TENANT IMPROVEMENT

SEPERATE PERMIT:

-RACKING LAYOUT/STORAGE -FIRE PROTECTION SYSTEMS -CIVIL & SITÉ IMPROVEMENTS -OFF-SITE PARKING

-MECHANICAL, ELECTRICAL, AND PLUMBING

S-1, B-1

32' TO 35'

222,335 SF

BUILDING 1

FOOTPRINT.

VICINITY MAP

ARCHITECTURAL

GENERAL NOTES ADA ACCESS NOTES

ADA ACCESS NOTES ADA ACCESS NOTES ADA ACCESS NOTES

ADA ACCESS NOTES ADA ACCESS NOTES ADA ACCESS NOTES GREEN BUILDING NOTES GREEN BUILDING NOTES CAL-GREEN CHECK LIST CAL-GREEN CHECK LIST

CAL-GREEN CHECK LIST

OVERALL SITE PLAN

ENLARGED SITE PLAN

OVERALL FLOOR PLAN EXISTING & DEMO PLAN

ENLARGED FLOOR PLANS FNLARGED RESTROOM PLANS

ENLARGED ROOF PLAN

ENLARGED ROOF PLAN

OVERALL FLOOR PLAN

OVERALL ROOF PLAN EXISTING PANEL ELEVATIONS

METAL STUD DETAILS

T-BAR CEILING DETAILS

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ENLARGED GROUND FLOOR PLAN ENLARGED REFLECTED CEILING PLAN

FINISH SCHEDULES

OVERALL FLOOR PLAN WITH EQUIP.

DOOR AND HARDWARE SCHEDULES

INTERIOR ELEVATIONS & PLUMBING TAB

ENLARGED FLOOR PLANS & REFLECTED CEILING PLAN

AFFIDAVIDTS

EXITING PLAN

ROOF PLAN

DETAILS

DETAILS

DETAILS

DETAILS

TI-A0.2

TI - A0.3.1

TI - A0.4.3

TI - A0.4.4

TI-A2.1

TI-A2.4

TI-A2.5TI-A2.10

TI-A2.11

TI-A2.12

TI-A5.2

TI-AD.1 TI-AD.2

TI-AD.3

TI-AD.4

TI-AD.5

STRUCTURAL

SD-2

SD-3

SD-4

SD-5

Torrance, CA

OWNER: UNIRE GROUP 1000 EAST IMPERIAL HIGHWAY, STE 205 BREA, CA 92821

PHONE: (562) 284-5004 CONTACT: PAÚL SINGH

-8,569 SF OF GROUND FLOOR TENANT IMPROVEMENT

CONFERENCE ROOM, TRAINING ROOM, LOCKER ROOMS, &

-10 NEW OPENINGS FOR DELIVERY VAN LOADING ACCESS

INCLUDING RESTROOMS, BREAK ROOM, OPEN OFFICE,

-213,766 SF WAREHOUSE IMPROVEMENT -9 DOCK DOORS AND LEVELERS AT EXISTING DOCK

DOORS OR OPENINGS AS REQUIRED

-SCRUBBER DUMP AREA

ARCHITECT: 18831 BARDEEN AVE., SUITE 100 IRVINE, CA 92612

PHONE: (949) 862-2138

CONTACT: MATTHEW LEE

MATTHEW@HPARCHS.COM

SCOPE OF WORK:

STORAGE ROOM

CONTRACTOR:

ELECTRICAL: RPM ENGINEERS 102 DISCOVERY IRVINE, CA 92618 (949) 450-1229 CONTACT: EUSIO KIM

PROJECT REPRESENTATIVES

STRUCTURAL:

PLUMBING:

RPM ENGINEERS

102 DISCOVERY

IRVINE, CA 92618

(949) 450-1229

CONTACT: EUSIO KIM

1906 W. GARVEY AVE. SUITE 200

270-5050 FAX

WEST COVINA, CA 91790

(714) 522-0030

CONTACT: DARIN FONG

MECHANICAL: RPM ENGINEERS

102 DISCOVERY IRVINE, CA 92618 (949) 450-1229CONTACT: EUSIO KIM

FIRE PROTECTION

(E) NFPA-13 SPRINKLERS THROUGHOUT

AND 7351-034-804 **ZONING:** ZONE DESIGNATIONS: M3-1

GENERAL LAND USE: HEAVY MANUFACTURING **BUILDING ADDRESS**

990 FRANCISCO ST. BUILDING 2 970 FRANCISCO ST.

PLAN CHECK NO. : TBD

OWNER / APPLICANT :

PHONE: (562) 284-5004

CONTACT: PAUL SINGH

PHONE: (949) 862-2138

CONTACT: MATTHEW LEE

MATTHEW@HPARCHS.COM

BREA, CA 92821

IRVINE, CA 92612

PERMIT APPLICATION NO. : TBD

1000 EAST IMPERIAL HIGHWAY, STE 205

APPLICANT'S REPRESENTATIVE:

18831 BARDEEN AVE., SUITE 100

ASSESSOR'S PARCEL NO.:

7351-034-066, 7351-034-067, 7351-034-068

950 FRANCISCO ST.

GOVERNING CODE: THIS PROJECT SHALL COMPLY WITH: 2017 LOS ANGELES BUILDING CODE (LADBS), WHICH ADOPTS THE 2016 CBC, 2016 CMC, 2016 CPC, 2016 CALIFORNIA FIRE CODE (CFC), 2016 NFPA 13-FIRE SPRINKLER,

2016 NFPA 72 - FIRE ALARM, 2016 CALIF. ENERGY STANDARDS W/ 2014 L.A.B.C. AMENDMENTS

CODE ANALYSIS:

BUILDING & PLANNING DEPT. 2016 CALIFORNIA BUILDING CODE/2017 L.A.B.C. CONCRETE TILT-UP BUILDING

(E) BUILDING OCCUPANCY: (N) BUILDING OCCUPANCY:

S-1, B-1, S-2 OCCUPANCY SEPARATION: NONE CONSTRUCTION TYPE: III-BNUMBER OF STORIES: BLDG. HEIGHT ALLOWED PER CBC 503 AUTOMATIC FIRE SPRINKLER YES ALLOWABLE HEIGHT 75' (CBC 504.2) (W/ AUTOMATIC SPRINKLER)

ACTUAL PARAPET ACTUAL AREA (E) ACTUAL AREA (BASIC)

S-1=84,240 SF BUILDING 2 S-1=157,166 SF BUILDING 3 S-1=60,420 SF (N) ACTUAL AREA (BASIC) NO CHANGE TO BUILDING

(N)OCCUPANT LOAD:

(368 SF @ 100 SF) 4 - (N) 'B' LOCKERS - (N) 'B' TRAINING ROOM (792 SF @ 100 SF) - (N) 'B' BREAK-ROOM (4,144 SF @ 100 SF) 42

- (N) 'B' PICK-UP AREA (751 SF @ 100 SF) - (N) 'B' MOTHER'S ROOM (90 SF @ 100 SF) - (N) 'B' CONTEMPLATION (53 SF @ 100 SF) - (N) 'B' HR OFFICE (108 SF @ 100 SF) - (N) 'B' MANAGER OFFICE (180 SF @ 100 SF) - (N) 'B' OPEN OFFICE (501 SF @ 100 SF) - (N) 'B' OFFICE (63 SF @ 100 SF) - (N) 'B' CONFERENCE ROOM (342 SF @ 15 SF) 23

-(N) 'S-1' STORAGE (63 SF @ 500 SF) 1 - (N) 'S-1" WAREHOUSE (146,048 SF @ 500 SF) 293 - TOTAL OCCUPANT LOAD NUMBER OF EXITS REQUIRED: WIDTH OF EXITS REQUIRED:

TOTAL= 78.6" NUMBER OF EXITS PROVIDED:

(294 'S' OCCUPANTS X.2) = 58.8"

(99 B' OCCUPANTS X.2) = 19.8"

PROJECT DATA & CODE SUMMARY

NOTES:

LEGAL DESCRIPTION:

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF LOS ANGELES, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL 1: PARCELS A, B AND C, AS SHOWN ON PARCEL MAP NO. 4760, IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 129, PAGE 23 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

APN: 7351-034-066, 7351-034-067 AND 7351-034-068 PARCEL 2:

THAT PORTION OF DRILL TRACK NO. 4 AS DESCRIBED IN THAT CERTAIN GRANT OF EASEMENT FROM CADILLAC FAIRVIEW/CALIFORNIA, INC., A CALIFORNIA CORPORATION, TO SOUTHERN PACIFIC TRANSPORTATION COMPANY, A DELAWARE CORPORATION RECORDED APRIL 4, 1977 AS INSTRUMENT NO. 77-338683 OFFICIAL RECORDS, LYING WITH LOT 5 OF TRACT NO. 32036, IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 851, PAGES 12, 13 AND 14 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

NOTE: SAID LAND IS NOW DESCRIBED AS A PORTION OF PARCELS C AND D OF PARCEL MAP NO. 3209, AS PER MAP FILED IN BOOK 68, PAGES 69 AND 70, OF PARCEL MAPS; PARCELS A AND C PARCEL MAP NO. 4760, FILED IN BOOK 129, PAGE 23 OF PARCEL MAPS AND PARCEL A OF PARCEL MAP L.A. NO. 3331, FILED IN BOOK 76, PAGE 14 OF PARCEL MAPS, ALL RECORDS OF LOS ANGELES COUNTY, CALIFORNIA.

APN: 7351-034-804

PROJECT DATA:

in s.f. 492,606 s.f. in acres 11.31 ac EXISTING BUILDING AREA 4,608 s.f. 217,727 s.f. Manufacturing TOTAL

222,335 s.f. PROPOSED BUILDING AREA 8,569 s.f. 213,766 s.f. TOTAL 222,335 s.f. 45.13% COVERAGE

EXISTING PARKING Standard Parking (9' x 19') 154 stalls ADA Parking (9' x 19') 4 stalls Van Accessible (12' x 19') 2 stalls TOTAL 160 stalls

PROPOSED PARKING REQUIRED Office excess 25% GFA @1/500 s.f. 17 stalls Warehouse: 1st 10K @ 1/500 s.f. 20 stalls above 10K @ 1/5000 s.f. 41 stalls 78 stalls PROPOSED PARKING PROVIDED

224 stalls Standard Parking (9' x 19') Delivery Van Parking (11' x 27') 65 stalls ADA Parking (9' x 19') 5 stalls Van Accessible (12' x 19') TOTAL

PROPOSED OFFSITE PARKING PROVIDED Delivery Van Parking (11' x 27') ADA Parking (9' x 19') Van Accessible (12' x 19') 616 stalls TOTAL TOTAL PARKING PROVIDED 912

MAXIMUM FLOOR AREA RATIO F.A.R. - n/a

MAXIMUM BLDG. HEIGHT ALLOWED

ZONING ORDINANCE FOR THE CITY RESTRICTED LIGHT INDUSTRIAL (MR2-1)



hpa, inc. 18831 bardeen avenue - ste. #100 irvine, ca 92612 tel: 949 •863 •1770 fax: 949 • 863 • 0851 email: hpa@hparchs.com







TORRANCE DCX 7

ROPOSED SITE

TRUE

950 FRANCISCO ST TORRANCE, CA

Consultants:

THIENES Structural: RPM Mechanical: Plumbing: Electrical: Landscape: HUNTER LANDSCAPE Fire Protection: Soils Engineer:

TITLE SHEET Title:

Project Number: 19436 Drawn by: 10/24/19 Date:

Revision:

GENERAL NOTES - SHELL

1. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO INCLUDE ALL LABOR, MATERIALS AND SERVICES NECESSARY FOR COMPLETION OF ALL WORK SHOWN, PRESCRIBED, OR REASONABLY IMPLIED BUT NOT LIMITED TO THAT EXPLICITLY INDICATED IN THE CONTRACT DOCUMENTS.

2. ALL WORK SHALL CONFORM TO ALL APPLICABLE BUILDING CODES, ORDINANCES, AND REGULATIONS AS ADOPTED BY LOCAL AUTHORITIES HAVING JURISDICTION.

3. DIMENSIONS ON DRAWINGS ARE SHOWN TO CENTER LINE OF COLUMNS AND TO FACE OF CONCRETE OR FACE OF STUD AT WALLS AND PARTITIONS UNLESS NOTED OTHERWISE. 4. DO NOT SCALE DRAWINGS.

5. STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND LANDSCAPE DRAWINGS ARE SUPPLEMENTAL TO THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR SHALL REVIEW ALL PLANS AND DRAWINGS. IN THE EVENT OF CONFLICTING STATEMENTS, INSUFFICIENT INFORMATION, OR ERRORS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND OBTAIN CLARIFICATION BEFORE ANY WORK IS BEGUN. WORK INSTALLED WHERE CONFLICTING CONDITIONS EXIST SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE.

6. DIMENSIONS, DETAILS, NOTES, AND/OR SYMBOLS THAT APPLY TO ONE UNIT, APPLY TO ALL UNITS IN LIKE SITUATIONS UNLESS NOTED OTHERWISE.

DETAILS NOTED AS 'TYPICAL' SHALL APPLY IN ALL LIKE CONDITIONS UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION IN THIS PROJECT.

8. WHENEVER AN ARTICLE, DEVICE, OR PIECE OF EQUIPMENT IS SHOWN, INDICATED, OR REFERRED TO ON THE DRAWINGS OR IN THESE NOTES IN THE SINGULAR NUMBER, SUCH REFERENCES APPLY TO AS MANY SUCH ARTICLES AS ARE REQUIRED TO COMPLETE THE INSTALLATION.

9. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE PRIOR TO BEGINNING CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES OR UNIDENTIFIED CONDITIONS TO THE ARCHITECT FOR RESOLUTION BEFORE ANY WORK IS BEGUN.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES AND PROCEDURES EMPLOYED IN THE PERFORMANCE OF WORK IN, ON, OR ABOUT THE JOB SITE; THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL WORK PERFORMED BY SUBCONTRACTORS.

11. ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK ON, OR RELATED TO THIS PROJECT SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED, AND SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH ACT" OF THE U.S. DEPARTMENT OF LABOR AND WITH ANY AND ALL OTHER APPLICABLE STATE AND/OR LOCAL SAFETY REGULATIONS. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE SAFETY CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS THE OWNER AND ARCHITECT FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT

12. THE STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. THE CONTRACTOR SHALL PROVIDE ALL SHORING AND BRACING NECESSARY TO ENSURE THE STABILITY OF ANY AND ALL PARTS OF THE BUILDING DURING CONSTRUCTION.

13. UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS, NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, BORED, OR OTHERWISE MODIFIED WITHOUT PERMISSION/ACCEPTANCE OF THE STRUCTURAL ENGINEER OF RECORD.

14. WHETHER OR NOT DETAILED ON DRAWINGS. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACK-UP PLATES, AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK AND OF ALL WALL-MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL, OR MISCELLANEOUS EQUIPMENT. INCLUDING PLYWOOD BACKBOARDS FOR TELEPHONE AND ELECTRICAL EQUIPMENT ROOMS.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL AND PERMITS FOR ALL DESIGN/BUILD SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SYSTEMS MEETING ALL APPLICABLE CODE REQUIREMENTS.

16. ANY MODIFICATIONS TO THE BUILDING SHELL RESULTING FROM DESIGN/BUILD REQUIREMENTS SHALL BE REPORTED TO THE OWNER AND ARCHITECT ALONG WITH ANY REQUIRED COSTS OR SAVINGS PRIOR TO CONSTRUCTION. ANY MODIFICATIONS NOT REPORTED WILL BE THE CONTRACTOR'S RESPONSIBILITY FOR COORDINATION, CODE CONFORMANCE, AND COST.

17. NEITHER THE ARCHITECT'S REVIEW NOR APPROVAL OF SHOP DRAWINGS SHALL RELIEVE THE GENERAL CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM DRAWINGS OR SPECIFICATIONS UNLESS HE HAS CALLED THE ARCHITECTS ATTENTION (IN WRITING) TO SUCH DEVIATIONS AT THE TIME OF SUBMISSION, NOR SHALL RELIEVE HIM OF RESPONSIBILITY FOR ERRORS OF ANY SORT IN THE SHOP DRAWINGS.

18. INSTALLATION OF GLASS SHALL CONFORM TO FEDERAL SPECIFICATION 16-CFR-1201 AND ALL LOCAL CODES AND ORDINANCES. GLASS SUBJECT TO HUMAN IMPACT SHALL COMPLY WITH U.S. CONSUMER PRODUCT SAFETY STANDARDS. CERTIFICATE SHALL ACCOMPANY PRODUCT STATING DATE AND PLACE OF MANUFACTURE.

19. REFER TO THE CIVIL ENGINEER'S DRAWINGS FOR LOCATIONS OF EXISTING UTILITY LINES. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATION AND TRENCHING TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS.

20. THE CONTRACTOR SHALL SUBMIT A SOILS REPORT AND A COMPACTION REPORT TO THE BUILDING DEPARTMENT FOR APPROVAL PRIOR TO FOUNDATION INSPECTIONS.

21. THE CONTRACTOR IS RESPONSIBLE TO VERIFY LOCATION OF ALL SITE UTILITIES AND TO COORDINATE AND AVOID CONFLICT IN THE LOCATIONS OF NEW UNDERGROUND AND SITE UTILITIES. THE CONTRACTOR SHALL INCLUDE ALL NECESSARY FEES, METERS, AND CONNECTIONS IN HIS BID.

22. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT SHOULD UNIDENTIFIED FIELD CONDITIONS BE DISCOVERED.

23. ON A SET OF DRAWINGS FURNISHED BY THE ARCHITECT AND AT THE CONTRACTOR'S EXPENSE, THE CONTRACTOR SHALL KEEP AN UP-TO-DATE RECORD OF "AS BUILT" CONDITIONS OF THE WORK. UPON COMPLETION OF THE WORK, THAT SET SHALL BE RETURNED TO THE ARCHITECT COMPLETELY AND NEATLY POSTED SHOWING ALL ADDITIONS, DELETIONS, CORRECTIONS, AND REVISIONS OF THE ACTUAL CONSTRUCTION OF THE PROJECT. THIS SHALL INCLUDE REVISIONS IDENTIFIED IN RFI'S, ASI'S ADDENDUMS AND FIELD CHANGES. RECORD DRAWINGS SHALL BE SIGNED BY SUBCONTRACTORS REPRESENTING ALL MAJOR TRADES FOR THE PROJECT AS WELL AS THE GENERAL CONTRACTOR.

24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING. MOUNTING, AND DISPLAYING ARCHITECT'S JOB SIGN. CONTRACTOR SHALL RETURN JOB SIGN TO ARCHITECT UPON COMPLETION OF PROJECT IN GOOD CONDITION OR PROVIDE A REPLACEMENT OR THE COST OF A REPLACEMENT.

25. ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS, AND THOSE SHOWN ON THE RECORDS EXAMINED, ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, AGREES TO ASSUME LIABILITY AND TO HOLD HPA INC. HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED BY HPA INC., NOT INDICATED ON THE RECORDS EXAMINED, LOCATED AT VARIANCE W/ THOSE REPORTED, OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES FOUND AT THE SITE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNER(S) OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

1. ALL STUDS AT NON-BEARING INTERIOR PARTITIONS SHALL BE STEEL 3-5/8" WIDE X 20 GAUGE OR 2 X 4 DF#2 (MIN.) AT 16" O.C. UNLESS

PROVIDE AND INSTALL HEAVIER GAUGE STUDS, STIFFENERS, BRACING, BACK-UP PLATES, ETC., AS REQUIRED AT STUD WALLS FOR SUPPORT OF TOILET ROOM FIXTURES OR OTHER EQUIPMENT. SEE WALL LEGENDS OR CALLOUTS ON PLANS FOR GYPSUM BOARD THICKNESS AND FIRE RATING AND FOR INSULATION AS REQUIRED. 4. ALL WALL GYPSUM BOARD USED IN JANITOR'S ROOMS AND TOILET

STAIRS, EXITS & OCCUPANT

1. REQUIRED EXIT DOORS

ROOMS SHALL BE WATER RESISTANT.

- A. EXCEPT AS SPECIALLY PERMITTED BY SECTION CBC 1008.1.9 EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORTS. LOCKS AND LATCHES SHALL BE PERMITTED TO PREVENT OPERATION OF DOORS WHERE CONDITIONS PER CBC SECTION 1008.1.9.3.
- THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF A DOOR. SUCH FLOOR OR LANDING SHALL BE LEVEL EXCEPT FOR EXTERIOR LANDINGS, WHICH ARE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 2%. THRESHOLD AT DOORWAYS WHALL NOT EXCEED 1 EXCEPT DWELLING UNITS SLIDING DOOR PER CBC SECTION 1008.1.7.
- DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHERE SERVING AN OCCUPANT LOAD OF 50 OR MORE PERSONS OR A GROUP H OCCUPANCY PER CBC SECTION
- DOORS SERVING A GROUP H OCCUPANCY AND DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE IN A GROUP A OCCUPANCY, ASSEMBLY AREA NOT CLASSIFIED AS AN ASSEMBLY OCCUPANCY, E, I-2 OR I-2.1 OCCUPANCIES SHALL NOT BE PROVIDED WITH LATCH OR LOCK UNLESS IT IS PANIC HARDWARE OR FIRE EXIT HARDWARE PER CBC SECTION 1008.1.10.
- SHALL BE NOT LESS THAN 32" CLEAR WIDTH, THE MAXIMUM WIDTH OF A SWINGING SINGLE LEAF DOOR SHALL BE 48" NOMINAL AND THE HEIGHT OF DOORS OPENINGS SHALL NOT BE LESS THAN 44" PER CBC SECTION 1008.1.1.

LANDING AT DOORS: LANDINGS SHALL HAVE A WIDTH NOT LESS THAN THE WIDTH OF THE STAIRWAY OR THE DOOR, WHICHEVER IS GREATER. DOORS IN THE FULLY OPENED POSITION SHALL NOT REDUCE A REQUIRED DIMENSION BY MORE THAN 7". WHEN A LANDING SERVES AN OCCUPANT LOAD OF 50 OR MORE, DOOR IN ANY POSITION SHALL NOT REDUCE THE LANDING TO LESS THAN ONE-HALF IT'S REQUIRED WIDTH. LANDINGS SHALL HAVE A LENGTH MEASURED IN THE DIRECTIO OF TRAVEL OF NOT LESS THAN 44" PER CBC 1008.1.6

3. ILLUMINATED EXIT SIGNS SHALL BE PROVIDED WHERE REQUIRED BY, AND IN ACCORDANCE WITH APPLICABLE LAWS. REFER TO CBC SECTION

4. ALL REQUIRED EXITS AND EXIT ACCESS DOORS SHALL HAVE EXIT SIGNS READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL PER

CORRIDORS SHALL BE FIRE RESISTANCE RATED IN ACCORDANCE WITH CBC TABLE 1018.1. THE CORRIDOR WALLS REQUIRED TO BE FIRE RATED SHALL COMPLY WITH SECTION 703 FOR RATED CONSTRUCTION. FOR FIRE PARTITIONS, A FIRE -RESISTANCE RATING IS NOT REQUIRED FOR CORRIDORS IN A GROUP B OCCUPANCY WHEN THE SPACE COMPLIES WITH CBC TABLE 1015.1 REQUIRING ONLY A SINGLE MEAN OF EGRESS.

6. DEAD ENDS: WHEN MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS MORE THAN 20 FEET IN LENGTH PER CBC SECTION 1018.4. A. IN GROUP B, E, F, M, R-1, R-2, R-2.1, R-4, S AND U

WITH AN AUTOMATIC SPRINKLER IN ACCORDANCE WITH CBC SECTION 903.3.1.1, THE LENGTH OF DEAD END CORRIDORS SHALL NOT EXCEED 50 FEET PER CBC SECTION 1018.4 EXCEPTION 2. B. A DEAD END CORIDOR SHALL NOT BE LIMITED IN LENGTH

OCCUPANCIES WHERE BUILDING IS EQUIPPED THROUGH OUT

WHERE THE LENGTH OF DEAD END CORRIDOR IS LESS THAN

2.5 TIMES THE LEAST WIDTH OF THE DEAD END CORRIDOR

PER CBC SECTION 1018.4 EXCEPTION 3 **MECHANICAL, PLUMBING &**

ELECTRICAL

PROVIDE AND LOCATE, AFTER APPROVAL BY ARCHITECT, ACCESS DOORS OR PANELS IN CEILING AND WALL CONSTRUCTION AS REQUIRED BY INSTALLATION OF MECHANICAL, FIRE SPRINKLER, PLUMBING, AND ELECTRICAL WORK IN ADDITION TO THOSE SHOWN ON THE DRAWINGS.

CONTRACTOR SHALL VERIFY SIZE AND LOCATIONS OF ALI MECHANICAL EQUIPMENT PLATFORMS AND BASES AS WELL AS POWER AND WATER OR DRAIN INSTALLATIONS WITH EQUIPMENT MANUFACTURERS PRIOR TO PROCEEDING WITH THE WORK. CHANGES TO ACCOMMODATE FIELD CONDITIONS OR CONTRACTORS SUBSTITUTIONS SHALL BE MADE WITHOUT ADDITIONAL CHARGE TO OWNER.

MECHANICAL AND ELECTRICAL CONTRACTORS SHALL VERIFY SIZE, SHAPE, AND LOCATION OF HOUSEKEEPING PADS FOR THEIR EQUIPMENT. ANY FIELD CHANGES SHALL BE MADE WITHOUT ADDITIONAL CHARGE TO

4. WHERE RESTROOMS ARE PROVIDED, MECHANICAL VENTILATION SHALL BE PROVIDED TO ENSURE AN AIR CHANGE EVERY FIVE MINUTES. 5. IN WAREHOUSE AREAS, PROVIDE VENTILATION TO ENSURE MINIMUM CODE REQUIRED AIR CHANGES PER HOUR ARE MET. REFER ROOF PLAN FOR VENTED SKYLIGHTS / SMOKE HATCHES.

FIRE PROTECTION

BUILDING CODE.

PROVIDE FIRE PROTECTION FOR BUILDING UNDER CONSTRUCTION PER REQUIREMENTS OF LOCAL GOVERNING AGENCIES. PROVIDE AND INSTALL MATERIALS FOR FIRE PROTECTION OF THE

WHERE REQUIRED BY CODE, CORRIDORS, ELEVATOR LOBBIES, AND ELECTRICAL ROOMS SHALL BE OF ONE-HOUR CONSTRUCTION

STRUCTURAL ASSEMBLIES OF THIS BUILDING TYPE, AS REQUIRED BY THE

4. DOORS OPENING INTO ONE-HOUR FIRE-RESISTIVE CORRIDORS SHALL BE PROTECTED WITH SMOKE AND DRAFT CONTROL FIRE ASSEMBLIES HAVING A MINIMUM 20-MINUTE RATING WITH SELF-CLOSERS. . EXIT STAIR ENCLOSURES SHALL BE OF MIN. ONE—HOUR FIRE-RESISTIVE CONSTRUCTION. ALL DOORS OPENING INTO STAIR ENCLOSURES SHALL BE PROTECTED BY ONE-HOUR SELF-CLOSING FIRE

RATED ASSEMBLIES. PROVIDE AND INSTALL FIRE DAMPERS WHERE AIR DUCTS PENETRATE FIRE-RATED WALLS OR CEILINGS WHERE REQUIRED BY CODE OR LOCAL GOVERNING AGENCY.

WHERE NONCOMBUSTIBLE CONDUIT. PIPES. OR VENTS PENETRATE A FIRE-RATED ASSEMBLY PROVIDE AND INSTALL APPROVED FIRE-RATED SEALANT OF MINERAL WOOL FIBER TO DRAFTSTOP AND MAINTAIN THE FIRE SAFE INTEGRITY OF THE ASSEMBLY.

8. RETURN AIR PLENUMS BETWEEN FLOOR OR ROOF ASSEMBLIES AND SUSPENDED CEILINGS BELOW SHALL MEET THE FOLLOWING REQUIREMENTS. A. SHALL HAVE NO EXPOSED MATERIALS WITHIN THE PLENUM

DEVELOPED RATING MORE THAN 50. B. ALL WIRING IN PLENUMS SHALL BE IN NONCOMBUSTIBLE

WITH A FLAME SPREAD RATING MORE THAN 25 AND A SMOKE

- C. WHERE GYPSUM PRODUCTS ARE EXPOSED WITHIN THE PLENUM. AIR TEMPERATURE SHALL BE RESTRICTED TO A RANGE OF NOT LESS THAN 50 NOR MORE THAN 125 DEGREES FAHRENHEIT, AND MOISTURE CONTENT CONTROLLED, SO THAT THESE PRODUCTS ARE NOT ADVERSELY AFFECTED.
- ALL EXPOSED COMBUSTIBLE FRAMING MEMBERS AND FINISH SURFACES WITHIN RETURN AIR PLENUMS SHALL BE COVERED WITH A MINIMUM OF ONE LAYER 1/2" TYPE 'X' GYPSUM BOARD SECURELY NAILED OR OTHERWISE FASTENED PER APPLICABLE CODE. PROVIDE AND INSTALL ALL FURRING AND BLOCKING AND TAPE JOINTS AS REQUIRED.

E. FIRE-RETARDANT WOOD PER BUILDING CODE MAY BE EXPOSED WITHOUT COVER IN RETURN AIR PLENUMS WHEN APPROVED BY BUILDING OFFICIAL

FIREBLOCKING AND DRAFTSTOPPING SHALL BE INSTALLED IN COMBUSTIBLE CONCEALED LOCATION IN ACCORDANCE WITH CBC SECTION

A. IN OTHER THAN HIGH-RISE BUILDINGS, GROUP A,E,H,I AND L OCCUPANCIES AND OTHER APPLICATIONS LISTED IN SECTION 1.11 REGULATED BY THE OFFICE OF STATE FIRE MARSHAL, DRAFTSTOPPING IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH CBC SECTION 903.3.1.1

10. INTERIOR WALL AND CEILING FINISHES SHALL BE OF THE FOLLOWING FLAME SPREAD CLASSIFICATION: FLAME SPREAD SMOKE-DEVELOPED CLASS A 0 - 4500-25 CLASS B 0 - 45026-75 CLASS C 76-200 0 - 450

11. INTERIOR FINISH REQUIREMENT BY OCCUPANCY PER CBC 803.9

		SPRINKLERED	NONSPRINKLERE
A-1 A-2	EXIT ENCLOSURE & EXIT PASSAGEWAY	CLASS B	CLASS A
A-1 A-2 A-3 A-4 A-5 B E M R-1	CORRIDORS	CLASS B	CLASS A
	ROOMS & ENCLOSED SPACES	CLASS C	CLASS B
A-2 A-3 A-4 A-5 B E M R-1 F	EXIT ENCLOSURE & EXIT PASSAGEWAY	CLASS B	CLASS A
	CORRIDORS	CLASS B	CLASS A
	ROOMS & ENCLOSED SPACES	CLASS C	CLASS C
	EXIT ENCLOSURE & EXIT PASSAGEWAY	CLASS B	CLASS A
	CORRIDORS	CLASS C	CLASS B
R-1	ROOMS & ENCLOSED SPACES	CLASS C	CLASS C
F	EXIT ENCLOSURE & EXIT PASSAGEWAY	CLASS C	CLASS B
	CORRIDORS	CLASS C	CLASS C
	ROOMS & ENCLOSED SPACES	CLASS C	CLASS C
Н	EXIT ENCLOSURE & EXIT PASSAGEWAY	CLASS B	CLASS A
	CORRIDORS	CLASS B	CLASS A
	ROOMS & ENCLOSED SPACES	CLASS C	CLASS B
S	EXIT ENCLOSURE & EXIT PASSAGEWAY	CLASS C	CLASS B
S	CORRIDORS	CLASS C	CLASS B
	ROOMS & ENCLOSED SPACES	CLASS C	CLASS C

12. WHERE REQUIRED OR SPECIFIED. PROVIDE AND INSTALL AN AUTOMATIC FIRE SPRINKLER SYSTEM AND ALARM. SPRINKLER SYSTEM PLANS SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL OF SYSTEM LAYOUT AND HEADS PRIOR TO SUBMITTAL TO LOCAL AGENCIES FOR REVIEW AND ACCEPTANCE PRIOR TO INSTALLATION. SEPARATE PLAN CHECK AND PERMITS ARE REQUIRED. ANY CHANGES TO ACCOMMODATE FIELD CONDITIONS SHALL BE RESUBMITTED AT THE CONTRACTORS EXPENSE WITH NO ADDITIONAL CHARGE TO OWNER. WHERE ENUNCIATOR PANELS, ALARMS, ETC. ARE REQUIRED IN AN EXPOSED LOCATION, CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS & CABINET/COVER PLATE FINISHES TO ARCHITECT FOR REVIEW AND ACCEPTANCE PRIOR TO INSTALLATION.

13. PROVIDE PORTABLE FIRE EXTINGUISHERS OF TYPE, QUANTITY, AND LOCATION DETERMINED BY FIRE DEPARTMENT INSPECTOR AND PER CBC SECTION 906 (TABLE 906.1).

14. PROVIDE AND INSTALL WET OR DRY STANDPIPES AS REQUIRED BY FEATURES: CODE AND THE LOCAL FIRE DEPARTMENT. 15. PROVIDE AND INSTALL OUTSIDE GAS SHUT-OFF VALVE AND SIGNS IDENTIFYING MAIN GAS AND ELECTRICAL SHUT-OFFS PER DIRECTION OF LOCAL FIRE DEPARTMENT.

16. PROVIDE SMOKE DETECTORS, DUCT DETECTORS AND OTHER SUCH DETECTION DEVICES PER CBC SECTION 907 AND GOVERNING AUTHORITIES HAVING JURISDICTION.

17. PROVIDE ALL PAINTING OR MARKING, INCLUDING BUT NOT LIMITED TO, RED CURBS OR ROOF ADDRESSES AS REQUIRED BY FIELD INSPECTOR OR LOCAL GOVERNING JURISDICTION.

18. ALL FIRE-RATED DOORS SHALL HAVE GASKETS AT HEAD & JAMBS TO PROVIDE SMOKE SEAL. 19. ON SITE FIRE HYDRANTS AND UNDERGROUND MAINS SHALL BE SUBMITTED TO THE GOVERNING JURISDICTION BY THE FIRE PROTECTION

SYSTEM CONTRACTOR FOR REVIEW AND APPROVAL. 20. AUTOMATIC SPRINKLER SYSTEMS AUTOMATIC SPRINKLER SYSTEMS SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION PER CBC SECTION 903.4.1.

21. ALL DETAILS OF THE FIRE ALARM, FIRE SPRINKLERS, FIRE PUMP, SMOKE CURTAINS OR UNDERGROUND FIRE MAINS ARE CONSIDERED NOT WITHIN THE SCOPE OF THIS CONSTRUCTION PLAN REVIEW. DETAILS, PLANS OF THESE MUST BE SUBMITTED FOR REVIEW UNDER SEPARATE FIRE DEPARTMENT CONSTRUCTION PERMIT PRIOR TO INSTALLATION.

22. PROVIDE MASTER KEY KNOX-BOX AT EACH BUILDING ENTRY IN ACCORDANCE WITH FIRE DEPARTMENT. REFER TO THE SITE PLANS FOR LOCATIONS 23. PROVIDE A KNOX-BOX AT EACH SWING AND ROLLING GATE.

24. BUILDING ADDRESS SHALL BE OF A SIZE AS TO BE VISIBLE AND LEGIBLE FROM THE STREET FRONTING THE PROPERTY, PER LOCAL GOVERNING ORDINANCES.

25. TRASH ENCLOSURES OR COMPACTORS LOCATED ADJACENT TO BUILDING SHALL BE FIRE SPRINKLERED. SEE FIRE PROTECTION PLANS.

DISABLED ACCESSIBILITY

ACCESS FOR PERSONS WITH DISABILITIES SHALL COMPLY WITH CHAPTER 11A AND 11B FOR ACCESSIBILITY. ALL EXITS REQUIRED BY CHAPTER 10 MUST BE ACCESSIBLE BY PERSONS WITH DISABILITIES OR THAT A SAFE AREA FOR EVACUATION ASSISTANCE IS REQUIRED.

- PARKING STALLS: A. CAR AND VAN PARKING SPACES SHALL BE 216" (18') LONG MINIMUM. CAR PARKING SPACES SHALL BE MINIMUM 108" (9') WIDE AND A VAN PARKING SHALL BE 144" (12') WIDE MINIMUM PER CBC SECTION 11B-502.2.
- B. VAN PARKING SPACES SHALL BE PERMITTED TO BE 108" (9') PROVIDED A 96" (8') ACCESS AISLE IS PROVIDED PER
- CBC SECTION 11B-502.2 EXCEPTION. C. ACCESS AISLES MAY BE BETWEEN TWO STALLS AND SERVE BOTH PER CBC SECTION 11B-502.3.
- D. PARKING SPACES AND ACCESS AISLES SERVING THEM SHALL COMPLY WITH CBC SECTION 11B-302. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED. EXCEPTION: MAXIMUM SLOPE: 2% (1:48) IN ANY DIRECTION PER CBC SECTION 11B-502.4
- PARKING STALL MARKING: A. EACH ACCESSIBLE CAR AND VAN SPACE SHALL HAVE A SURFACE IDENTIFICATION COMPLYING WITH EITHER CBC SECTIONS 11B-502.6.4.1 OR 11B-502.6.4.2.
 - (1). THE PARKING SPACE SHALL BE MARKED WITH AN "INTERNATIONAL SYMBOL OF ACCESSIBILITY" IN WHITE ON A BLUE BACKGROUND A MINIMUM 36"W x 36"H, MAXIMUM 6" FROM CENTERLINE OF THE PARKING SPACE, PARALLEL TO THE LENGTH OF THE PARKING SPACE AND IT'S LOWER CORNER AT OR LOWER SIDE ALIGNED WITH, THE END OF THE PARKING SPACE |SECTION 11B-502.6.4.1|.
 - (2) THE PARKING SPACE SHALL BE OUTLINED OR PAINTED BLUE AND SHALL BE MARKED BY THE "INTERNATIONAL SYMBOL OF ACCESSIBILITY" WITH A MINIMUM 36"W x 36"H IN WHITE OR A SUITABLE CONTRASTING COLOR [SECTION 11B-502.6.4.2].

C. PROVIDE TWO 1-1/2" OUTSIDE DIA. GRAB BARS ONE 42" LONG BAR MOUNTED AT NEAR SIDE WALL EXTENDING 24" BEYOND FRONT OF WATER CLOSET AND ONE 36" LONG CENTERED ON WATER CLOSET AT REAR WALL. INSTALL BARS 33" ABOVE FLOOR AT 1-1/2" CLEAR FROM WALL TO SUPPORT A 250 POUND LOAD IN

B. EACH ACCESSIBLE PARKING SPACE SHALL BE IDENTIFIED WITH

SQUARE INCHES AND SHALL BE PERMANENTLY POSTED

BE POSTED AT A MINIMUM HEIGHT OF 80" FROM THE

AN ADDITIONAL SIGN SHALL ALSO BE POSTED IN A CONSPICUOUS

ACCESSIBLE STALL OR SPACE. THE SIGN SHALL NOT BE LESS THAN

17" X 22" IN SIZE WITH LETTERING NOT LESS THAN 1" IN HEIGHT,

AND SHALL CLEARLY AND CONSPICUOUSLY STATE THE FOLLOWING:

"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE

SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL

RECLAIMED AT _____ OR BY TELEPHONING _____

\$250" PER CBC SECTION 11B-502.6.2.

CBC SECTION 11B-405.7.3.1

CBC SECTION 11B-406.2.2.

SECTION 11B-405.7.1.

NUMBER(S) ON SIGN.

4. RAMPS ON ACCESSIBLE ROUTES:

11B-405.5.

SIDE EXCEEDS 4".

LANDINGS:

FACE OF RISER.

IF STRAIGHT.

APPROVED MATERIAL.

7. DOORS AND HARDWARE:

SMOOTH METAL PANEL AT BOTTOM.

THE MAXIMUM FORCE LIMITS.

A MAXIMUM OPENING FORCE OF 5 lbf.

A MAXIMUM OPENING FORCE OF 5 lbf.

SANITARY FACILITIES AS FOLLOWS:

12" SIDES VERTEX UP.

E. PROVIDE SYMBOLS ON DOORS LEADING TO

MEN'S: 1/4" THICK EQUILATERAL TRIANGLE WITH

CENTER SYMBOLS ON DOORS AT 60" HEIGHT, AND

FINISH IN COLOR CONTRASTING TO THAT OF THE DOORS

F. THRESHOLDS SHALL BE 1/2" HIGH MAXIMUM WITH 1/4"

8. WHERE DRINKING FOUNTAINS ARE PROVIDED. THEY SHALL

9. WATER CLOSETS AND COMPARTMENTS FOR THE DISABLED.

DISABILITIES. SEE DISABLED ACCESSIBILITY NOTES 9,10&11.)

B. THE CENTERLINE OF THE WATER CLOSET FIXTURE SHALL

BE 18" FROM THE SIDE WALL OR PARTITION. ON THE OTHER

SIDE OF THE WATER CLOSET, PROVIDE A MINIMUM OF 18" WIDE

CLEAR FLOOR SPACE IF THE WATER CLOSET IS ADJACENT TO A

FIXTURE OR A MINIMUM OF 32" WIDE CLEAR FLOOR SPACE IF

THIS CLEAR FLOOR SPACE SHALL EXTEND FROM THE REAR WALL

MEASURED PERPENDICULAR FROM THE REAR WALL.

TO THE FRONT OF THE WATER CLOSET. (CBC 1115B.4.1)

WHERE A WATER CLOSET IS NOT WITHIN A WATER CLOSET

COMPARTMENT, CLEAR FLOOR SPACE AROUND THE WATER CLOSET

SHALL BE 60" MINIMUM MEASURED PERPENDICULAR FROM THE

SIDE WALL CLOSEST TO THE WATER CLOSET AND 56" MINIMUM

THE WATER CLOSET IS ADJACENT TO A WALL OR PARTITION.

A. WATER CLOSET SEAT HEIGHT TO BE 17" MINIMUM,

19" MAXIMUM. FLUSH CONTROLS TO BE OPERABLE BY

AN OSCILLATING HANDLE WITH A MAXIMUM FORCE OF

3 POUNDS OR BY A REMOTE CONTROL BUTTON.

(ALL TOILET ROOMS ARE TO BE ACCESSIBLE BY PERSONS WITH.

HIGH MAXIMUM VERTICAL EDGE BELOW A BEVELED EDGE AT 1:2

WOMEN'S: 1/4" THICK 12" DIAMETER CIRCLE.

SLOPE FOR A HEIGHT OF 1/4" MAXIMUM.

COMPLY WITH SECTION CBC 1117B.

EXCEED 15 lbf.

CBC SECTION 11B-405.9.2.

LICENCE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE

TOWED AWAY AT THE OWNER'S EXPENSE. TOWED VEHICLES MAY BE

PROVIDE ADDITIONAL SIGNAGE BELOW THE 70 SQUARE INCH SIGN

FOR THE SYMBOL OF ACCESSIBILITY STATING: A. "MINIMUM FINE

GENERAL CONTRACTOR TO OBTAIN & PROVIDE LOCATION & PHONE

A. TOP LANDINGS SHALL BE 60" (5') WIDE MINIMUM PER CBC

C. CURB RAMP FLARED SIDES: MAXIMUM 10% (1:10) SLOPE PER

D. CURB RAMPS SHALL HAVE A 12" WIDE GROOVED BORDER AT

A. THE MINIMUM CLEAR WIDTH SHALL BE 48" PER CBC SECTION

SLOPE SHALL BE 1:12 MAXIMUM WITH A MAXIMUM 2.0%

HANDRAILS SHALL BE PROVIDED AT EACH SIDE OF THE

(1:48) CROSS SLOPE PER CBC SECTION 11B-405.2 &

RAMPS PER CBC SECTION 11B-505. HEIGHT OF HANDRAIL

SHALL BE +34" MINIMUM AND 38" MAXIMUM VERTICALLY

ABOVE WALKING SURFACE PER CBC SECTION 11B-505.4.

WARNING CURB 6" HIGH REQUIRED WHERE DROP-OFF AT

OR BARRIER ON EACH SIDE OF RAMP LANDING THAT

REQUIRED RAMPS SHALL HAVE A CURB AT LEAST 2" HIGH,

PREVENTS THE PASSAGE OF A 4" DIAMETER SPHERE PER

1.) TOP: MINIMUM 60" SQUARE OR 42"+ DOOR WIDTH

CBC SECTION 11B-405.7.2.1 & 11B-405.7.5.

2.) INTERMEDIATE: 60" LONG AT STRAIGHT RAMP, 72"

TO BE 30" PER CBC SECTION 11B-405.7.4.

6. STAIRS AND HANDRAILS PER BUILDING CODE WITH THE FOLLOWING

A. TREADS: SMOOTH WITH ROUNDED OR CHAMFERED

B. NOSING: TO EXTEND A MAXIMUM OF 1" BEYOND

D. HANDRAILS: HANDRAIL HEIGHT FOR PERSONS WITH

BOTTOM NOSING AT EACH FLIGHT. RETURN EXTENSION TO

BEYOND TOP NOSING, 12" PLUS ONE TREAD WIDTH BEYOND

FACE OF INTERSECTING WALL WHERE IT WOULD BE HAZARDOUS

DISABILITIES IS 34" TO 38" ABOVE NOSING. EXTEND 12"

C. RISERS: TO BE CLOSED. 7" MAXIMUM HEIGHT

E. PROVIDE A 2" WIDE STRIP OF EQUALLY

AT EXTERIOR STAIRS WITH PAINT OR OTHER

DOOR HAS BOTH A LATCH AND A CLOSER.)

WHEN DOOR IS AT RIGHT ANGLE TO CLOSED

SLIP-RESISTANT MATERIAL IN CONTRASTING COLOR

AT 1" FROM EDGE OF THE LOWEST TREAD AND THE

UPPER APPROACH TO EACH STAIR. MARK ALL TREADS

F. LEVEL FLOOR: FOR DISABLED ACCESS, PROVIDE

A CLEAR SPACE OF AT LEAST 60" INSIDE WHERE DOOR

SWINGS X 60" WIDE (18"/24" BEYOND DOOR STRIKE EDGE

INTERIOR/EXTERIOR DOOR) AND 44" OUTSIDE (48" MIN. IF

A. OPENING TO BE MINIMUM OF 32" WIDE X 80" HIGH

PERSONS WITH DISABILITIES MUST HAVE A MINIMUM 10" HIGH

C. CENTER OF HARDWARE TO BE 30" 44" ABOVE FLOOR.

SINGLE EFFORT BY LEVER OR PUSH-PULL TYPE HARDWARE.

FACE AT THE DOOR OPENING HARDWARE OR 30" FROM

LATCHING AND LOCKING DOORS TO BE OPERABLE WITH SINGLE

D. THE MAXIMUM FORCE REQUIRED TO PUSH OR PULL OPEN

A DOOR SHALL COMPLY FOLLOWINGS. PUSH OR PULL FORCE FOR A

HINGED DOOR SHALL BE MEASURED PERPENDICULAR TO THE DOOR

THE HINGED SIDE, WHICHEVER IS FARTHER FROM THE HINGE. PUSH

MEASURED PARALLEL TO THE DOOR AT THE DOOR PULL OR LATCH.

WITH SECTION CBC SECTION 1133B2.3.2 MAY BE USED TO MEET

COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS COMPLYING

1) REQUIRED FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE

2) OTHER THAN REQUIRED FIRE DOORS, INTERIOR DOORS SHALL HAVE

3) OTHER THAN REQUIRED FIRE DOORS, EXTERIOR DOORS SHALL HAVE

ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO

OR PULL FORCE FOR A SLIDING OR FOLDING DOOR SHALL BE

B. MAIN ENTRY DOORS AND DOORS ACCESSIBLE TO

EDGES AT TOP AND BOTTOM OF NOSING.

LONG BY 60" WIDE WHERE DOOR ENCROACHES PER

LONG AT CHANGE IN DIRECTION OVER 30 DEGREES

(MAXIMUM CHANGE IN ELEVATION BETWEEN LANDINGS

CENTER PER CBC SECTION 11B-406.5.11..

5. RAMPS TO BUILDING SHALL COMPLY WITH CBC SECTION 11B-405.

TOP OF RAMP AND ALONG THE OUTSIDE EDGES OF THE

FLARED SIDES WITH 1/4" WIDE x 1/4" DEEP AT 3/4" ON

SECTION 11B-405.7.2.1 AND BOTTOM LANDING SHALL EXTEND

72" (6') MINIMUM IN THE DIRECTION OF RAMP RUN PER

RAMPS SHALL HAVE A MAXIMUM 2% (1:48) SLOPE PER CBC

PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES

OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH

11B-502.6

UNAUTHORIZED VEHICLE SIGN:

BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED

IMMEDIATELY ADJACENT TO THE PARKING SPACE OR WITHIN

THE PROJECTED PARKING SPACE WIDTH AT THE HEAD OF

THE PARKING SPACE. WHEN IN A PATH OF TRAVEL, SHALL

GRADE. SIGNS MAY ALSO BE CENTERED ON THE WALL AT

THE INTERIOR END OF THE PARKING SPACE. CBC SECTION

A REFLECTORIZED SIGN WITH A MINIMUM AREA OF 70

D. LOCATE TISSUE DISPENSER CENTERLINE ON NEAR SIDE WALL 7" TO 9" IN FRONT OF TOILET SEAT AT MINIMUM 19" ABOVE FLOOR AND 3" MINIMUM BELOW GRAB BAR. LAVATORIES

A. PROVIDE A 29" HIGH X 30" WIDE KNEE SPACE UNDER LAVATORY APRON. BOWL AND PIPES MAY PROJECT INTO THIS SPACE.

B. PROVIDE A CLEAR FLOOR SPACE 30" WIDE X 48" LONG IN FRONT OF THE LAVATORY. THE CLEAR SPACE MAY INCLUDE THE TOE AND KNEE SPACE UNDER THE LAVATORY.

C. NO SHARP OR ABRASIVE SURFACES ARE TO BE UNDER LAVATORIES AND HOT WATER AND DRAIN PIPES ARE TO BE COVERED OR INSULATED D. FAUCET CONTROLS AND OPERATING MECHANISMS ARE

TO BE OPERABLE WITH ONE HAND NOT REQUIRING GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO OPERATE CONTROLS SHALL NOT EXCEED 5 POUNDS.

11. TOILET ROOM ACCESSORIES. (SEE A0.3)

A. DISPENSERS AND DISPOSAL FIXTURES ARE TO HAVE OPERABLE PARTS AND/OR OPENINGS LOCATED MAXIMUM 40" AND MINIMUM 24" ABOVE FINISH FLOOR.

B. BOTTOM EDGES OF MIRRORS ARE TO BE NO MORE THAN 40" ABOVE FINISH FLOOR. 12. ELECTRICAL REQUIREMENTS.

A. THE BOTTOM OF THE RECEPTACLE OUTLET BOX SHALL BE MINIMUM 15" ABOVE THE FLOOR. (CBC 1117B.6, ITEM 5.2) B. THE TOP OF THE OUTLET BOX SHALL BE MAXIMUM 48" ABOVE THE FLOOR. (CBC 1117B.6, ITEM 5.1)

ENERGY NOTES

1. AIR LEAKAGE AT EXTERIOR DOORS SHALL BE LIMITED BY THE FOLLOWING:

A. ALL DOORS SHALL BE PROVIDED WITH A SEAL, ASTRAGAL OR BAFFLE AT THE HEAD AND SILL. B. DOOR JAMBS MOUNTED ON EITHER THE INSIDE OR OUTSIDE OF AN EXTERIOR WALL SHALL LAP THE ADJACENT WALL CONSTRUCTION A MINIMUM OF ONE

C. DOORS REQUIRING VERTICAL TRACK GUIDES SHALL USE A CONTINUOUS MOUNTING ANGLE. SEALED IN ACCORDANCE WITH ITEM 1.G BELOW.

D. DOORS MOUNTED BETWEEN JAMBS SHALL HAVE A

CONTINUOUS SEAL OR BAFFLE AT EACH JAMB. E. MEETING RAILS OF SECTIONAL DOORS AND MEETING

STILES OR RAILS OF BIPARTING DOORS SHALL BE PROVIDED WITH A SEAL, ASTRAGAL, OR BAFFLE. F. SWINGING AND REVOLVING DOORS SHALL BE WEATHER-STRIPPED AT THE HEAD, SILL, AND JAMB.

G. OPEN EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, PENETRATIONS OF UTILITY SERVICES THROUGH WALLS & FLOORS, AND ALL OTHER OPENINGS IN THE EXTERIOR ENVELOPE SHALL BE SEALED, CAULKED, GASKETED, OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE.

H. A "CERTIFICATE OF COMPLIANCE" SIGNED BY THE OWNER, GENERAL CONTRACTOR, ARCHITECT OR ENGINEER SHALL BE GIVEN TO THE BLDG. DEPT., STATING THAT THE WORK HAS BEEN PERFORMED AND MATERIALS INSTALLED ACCORDING TO THE PLANS AND SPECIFICATIONS AFFECTING NONRESIDENTIAL BUILDINGS.

J. THIS PROJECT HAS BEEN DESIGNED TO COMPLY WITH ALL REQUIREMENTS OF THE CALIFORNIA ENERGY COMMISSION REGARDING T-24 CONSERVATION STANDARDS (T-20-1451 TO T-20-1525). K. DROP CEILINGS THAT ARE BETWEEN CONDITIONED AND

UNCONDITIONED SPACE THAT CREATE A VENTED ATTIC SPACE ABOVE, SHALL BE CLIPPED TO LIMIT INFILTRATION AND L. A COPY OF THE CONSTRUCTION DOCUMENTS OR A COMPARABLE DOCUMENT INDICATING THE INFORMATION FROM

ENERGY CODE SECTION 11.10(b) THROUGH 110.10 (c)

SAFETY NOTES

SHALL BE PROVIDED TO THE OCCUPANT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFETY. THE FOLLOWING REQUIREMENTS ARE NOT INTENDED TO BE A COMPLETE LIST. BUT ARE ADDITIONAL SAFETY REQUIREMENTS FOR THE CONTRACTOR. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT SHALL NOT INCLUDE INSPECTION OF THE FOLLOWING ITEMS.

REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE DESIGN. ADEQUACY & SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDEREI BY THE ARCHITECT. THE CONTRACTOR IS IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE APPLICATION OF ALL WALLS AND ROOF & FLOOR SHEATHING HE SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF THE AFORE-MENTIONED MATERIALS. 2. AN ERECTION PLAN IS REQUIRED FOR MOST CONSTRUCTION PHASES. CONTRACTOR SHALL DETERMINE ALL CONSTRUCTION PHASES WHICH REQUIRE ERECTION PLANS ACCORDING TO ALI APPLICABLE SAFETY REGULATIONS. A CERTIFIED COPY OF SUCH ERECTION PLANS SHALL REMAIN ON THE CONSTRUCTION SITE AT ALL TIMES.

THE CONTRACT DRAWINGS AND SPECIFICATIONS

3. TEMPORARY LOADING DURING CONSTRUCTION SHALL NOT OVERLOAD DESIGN VALUES. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL TRADES OF SUCH DESIGN VALUES.

4. THE CONTRACTOR SHALL PROVIDE ATTACHED VISIBLE PLATES INDICATING THE DESIGN LOADS IN ALL SPACES AS REQUIRED BY APPLICABLE SAFETY REGULATIONS. THE OCCUPANT OF THE BUILDING SHALL BE RESPONSIBLE FOR KEEPING THE ACTUAL LOAD BELOW THE ALLOWABLE LIMITS.

5. CONTRACTOR SHALL DETERMINE IF A CALOSHA PERMIT IS REQUIRED. IF SO, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN SUCH A PERMIT. 6. LACK OF HIGH GUARDRAIL AT BUILDING

PARAPETS, FLOOR OPENINGS & ROOF OPENINGS DOES NOT MEET CURRENT LABOR CODE FOR AN OCCUPIED SPACE. THIS ARCHITECT RECOMMENDS THE USE OF GUARDRAILS AT STATED LOCATIONS. IF GUARDRAILS ARE NOT USED THE OWNER SHALL ACCEPT FULL RESPONSIBILITY. IN ADDITION, THE CONTRACTOR SHALL PROVIDE CLEARLY LEGIBLE SIGNS AT THESE LOCATIONS STATING "CAUTION: NO GUARDRAIL". 7. ALL TEMPORARY FLOOR AND ROOF OPENINGS

LACKING GUARDRAILS SHALL BE ADEQUATELY

COVERED AND DESIGNED TO RESIST

CONSTRUCTION TRAFFIC LOADS.

8. CONTRACTOR SHALL VERIFY THAT ALL SKYLIGHTS ARE DESIGNED TO WITHSTAND THE LOADS SPECIFIED IN THE CALIFORNIA BUILDING CODES. 9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HERON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR

EXECUTION OF THIS WORK. 10. MATERIALS USED IN THIS DESIGN MAY BE HAZARDOUS TO ONES HEALTH. THE CONTRACTOR AND OWNER SHALL ACCEPT ALL RESPONSIBILITY AND SHALL POST SUCH WARNING DURING PROJECT OCCUPANCY. 11. THE CONTRACTOR, DURING CONSTRUCTION, AND THE OWNER, DURING OCCUPANCY, SHALL ASSUME ALL RESPONSIBILITY FOR PROPER ROOF

SHALL BEAR ALL EXPENSE OF REPAIR OR

REPLACEMENT IN CONJUNCTION WITH THE

MAINTENANCE TO INSURE PROPER ROOF

STRUCTURAL

A.P.

BLDG

BLK

CEM

CONC

CONT

CORR

C.S.P.

C.M.U.

ABBREVIATION LEGEND H.B.

HOSE BIB

HARDBOARD

HARDWOOD

HOLLOW CORE

H.C.

HDBD.

HDWD.

"M" "P"	MECHANICAL PLUMBING ELECTRICAL ANGLE AT CENTERLINE DIAMETER OR ROUND SECURITY OPENING	HDWD. H.M. HORIZ	HARDWOOD HOLLOW METAL HORIZONTAL	
"E" L	ELECTRICAL	1.D.	INSIDE DIAMETER	
@	ANGLE	INSUL.	INSULATION	
@ C. Ø Q A.B.	CENTERLINE DIAMETER OR ROLLIND	INT. JAN.	JANITOR	
q Q	SECONITI OI LININO	UI.	JOINT	
A.B.	ANCHOR BOLT ACRYLIC (PAINT) ASPHALT CONCRETE ACOUSTICAL	LAM.	LAMINATE	
AC. A.C.	ASPHALT CONCRETE	LAV. LIN.	LAVATORY LINEN	
$\Lambda \cap \Pi$	ALD CONDITIONING LIMIT	1.7.117	LOUVER	
A.C.O. A.D.	AREA DRAIN	LT.WT.	LIGHTWEIGHT	
ADJ.	AJUSTABLE OR ADJACENT	MAX. M.C.	MAXIMUM MINERAL CORE	
ANOD.	ANODIZED	MECH. MET.	MECHANICAL METAL	
A.P.	ACCESS PANEL ROARD	MFR.	MANUFACTURER MINIMUM OR MINUTE	
BLDG.	AREA DRAIN AJUSTABLE OR ADJACENT ALUMINUM ANODIZED ACCESS PANEL BOARD BUILDING BLOCK BLOCKING BEAM BOTTOM BRONZE BUILT-UP ROOFING CABINET CATCH BASIN CEMENT	MIN. MISC.	MINIMUM OR MINUTE MISCELLANEOUS	
BLKG.	BLOCK BLOCKING	M.O.	MASONRY OPENING MOUNTED	
BM.	BEAM	MTD. MTG.		
BRZ.	BRONZE	MTL.		
B.U.R.	BUILT-UP ROOFING	N.F. APCIF.	NO FIN. REQ. — APP.BY CONT. IN FIELD)
CAB. C.B.	CABINET CATCH BASIN	N.I.C.	NOT IN CONTRACT	
CEM.	CEMENT	NU./# N.T.S.	NUMBER NOT TO SCALE	
	CERAMIC CAST IRON		ON CENTER	
	CEILING CLOSET	0.D. 0.F.C.I.	OWNER FURNISHED	
CLR.	CLEAR	OPNC	CONTRACTOR INSTALLED OPENING)
C.O.	CONCRETE OPENING COLUMN	OPP.	OPPOSITE	
CONC.	CONCRETE	0.S.		
CONT. CORR.	CONCRETE CONTINUOUS CORRIDOR	P/H P.L.	PENTHOUSE PROPERTY LINE	
C.S.P.	COMBINATION STANDPIPE	5.444	PLATE	
C.M.U.	DOLIDIE	P.LAM. PLAS.	PLASTIC LAMINATE PLASTER	
D.F.	DOUBLE DRINKING FOUNTAIN DETAIL DIAMETER DIMENSION DISPENSER DOWN DOOR DRAINAGE TUBING DETAIL DOWNSPOUT DRY STANDPIPE DRAWING EACH ELECT. DRINKING FNTN. EGGSHELL ENAMEL	PLYWD. PR.	PLYWOOD PAIR	
DET. DIA	DETAIL DIAMFTER	R.	RISE	
DIM.	DIMENSION	RAD. R.D.	RADIUS ROOF DRAIN	
DISP. DN.	DOWN	REC.	RECESSED	
DR.	DOOR DRAINIAGE THRING	REQ.'D RESII	REQUIRED RESILIENT	
DTL.	DETAIL	RM.	ROOM	
DS. D.S.P.	DOWNSPOUT DRY STANDPIPF	R.O. RDWD.	ROUGH OPENING REDWOOD	
DWG.	DRAWING	S.&P.	SHELF AND POLE	
EA. F.D.F.	EACH FLECT. DRINKING ENTN.	S.C. sect	SOLID CORE SECTION	
E.E.	EGGSHELL ENAMEL	S.G.E.	SEMI-GLOSS ENAMEL	
EL. ELEC.	ELECTRICAL	SHWR. SHT.	SHOWER SHFFT	
ELEV.	ELEVATOR EMERGENCY	SIM.	SIMILAR	
ENCL.	ELECT. DRINKING FININ. EGGSHELL ENAMEL ELEVATION ELECTRICAL ELEVATOR EMERGENCY ENCLOSURE ELECTRICAL PANEL EQUAL EQUIPMENT	SIL.PUL. SPEC.	SILICONE POLYESTER SPECIFICATION	
E.P. EQ.	ELECTRICAL PANEL EQUAL EQUIPMENT ELECTRIC WATER COOLER EXPANSION JOINT EXPOSED EXTERIOR FIRE ALARM FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER CAB.	SQ. S S	SQUARE SERVICE SINK	
EQPT.	EQUIPMENT	STN.STL.	STAINLESS STEEL	
E.W.C. EXP. JT.	EXPANSION JOINT	STD. STL.	STANDARD STEEL	
EXP.	EXPOSED	STOR.	STORAGE	
LΛ1. F Δ	FIRE ALARM	STRUCT. SUSP.	STRUCTURAL SUSPENDED	
F.D.	FLOOR DRAIN	SYM.	SYMMETRICAL	
F.E. F.E.C.	FIRE EXTINGUISHER FIRE EXTINGUISHER CAB.	T.O.C. TEL.	TOP OF CONCRETE TELEPHONE	ERC
F.F.	FINISH FLOOR	TEMP.	TEMPERED	CON
F.H.C. FIN.	FIRE HOSE CABINET FINISH	T&G THK.	TONGUE AND GROOVE THICK	(AIF
FLR. FLASH.	FLOOR FLASHING	T.O.P. T.O.S.	TOP OF PARAPET TOP OF SHEATHING	
FLUOR.	FLUORESCENT	TV.	TELEVISION	ALL UNPA TWICE DA
F.O. F.O.C.	FACE OF CONCRETE	T.O.W. TYP.	TOP OF WALL TYPICAL	SHALL BE WETTING
F.O.M. F.O.S.	FACE OF MAS. OR MULL. FACE OF STUD	U.N.O.	UNLESS NOTED	a. THE C
F.O.W.	FACE OF WALL		OTHERWISE	DAMPENE PROVIDE
F.S. FTG	FLOOR SINK	VERT. VEST.	VERTICAL VESTIBULE	b. ALL LO

VEST.

W/

W.C.

WD.

W.H.

W/O

W.S.P.

W.W.

V.W.C.

FOOTING

FURRING

GALVANIZED

GLASS

GYP. BD. GYPSUM WALLBOARD

GRADE

FLAT WALL (PAINT)

FURR.

F.W.

GALV.

VESTIBULE

WATER CLOSET

WATER HEATER

WATER RESISTAN

WET STANDPIPE

WINDOW WALL

WITH

WOOD

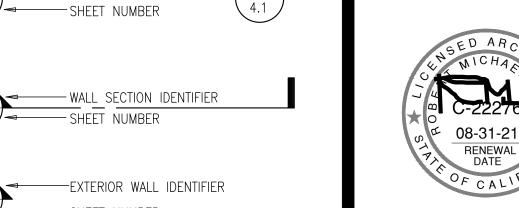
WITHOUT

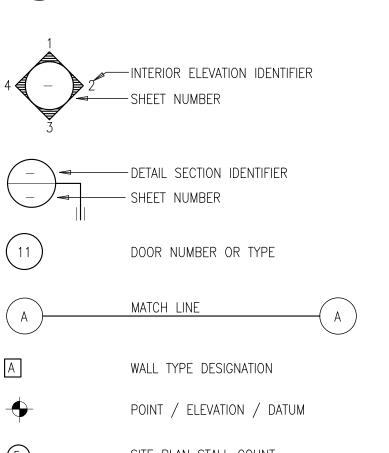
VINYL WALL COVERING

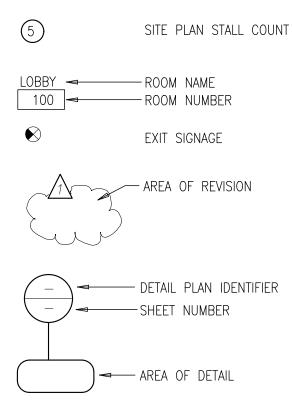
KEYNOTE FINISH DESIGNATION — MATERIAL ——FINISH

SYMBOLS LEGEND

OLUMN GRID DESIGNATION COLUMN CENTER LINE ----- SECTION IDENTIFIER









HANDICAP DELINEATION

OSION/GRADING/SHORT-TERM **INSTRUCTION IMPACTS**

R QUALITY) PAVED DEMOLITION AND CONSTRUCTION AREAS SHALL BE WETTED AT LEAST DAILY DURING EXCAVATION AND CONSTRUCTION, AND TEMPORARY DUST COVER BE USED TO REDUCE DUST EMISSIONS AND MEET SCAQMD DISTRICT RULE 403 COULD REDUCE FUGITIVE DUST BY AS MUCH AS 50 PERCENT. WNER OR CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA SUFFICIENT D TO CONTROL DUST CAUSED BY GRADING AND HAULING, AND AT ALL TIME REASONABLE CONTROL OF DUST CAUSED BY WIND. b. ALL LOADS SHALL BE SECURED BY TRIMMING, WATERING OR OTHER APPROPRIATE MEANS TO PREVENT SPILLAGE AND DUST. MATERIALS TRANSPORTED OFF-SITE SHALL BE EITHER SUFFICIENTLY WATERED OR SECURELY COVERED TO PREVENT EXCESSIVE AMOUNT OF DUST. ALL CLEARING, GRADING, EARTH MOVING, OR EXCAVATION ACTIVITIES SHALL BE DISCONTINUED DÚRING PERÍODS OF HIGH WINDS (I.E. GREATER THAN 15 MPH), SC AS TO PREVENT EXCESSIVE AMOUNTS OF DUST. GENERAL CONTRACTORS SHALL MAINTAIN AND OPERATE CONSTRUCTION EQUIPMENT O AS TO MINIMIZE EXHAUST EMISSIONS.

NOTE: NON-RESIDENTIAL ADDITIONS AND ALTERATIONS SHALL REQUIRE VERIFICATION THAT CALIFORNIA PROHIBITED UNIVERSAL WASTE MATERIALS ARE DISPOSED OF PROPERLY AND DIVERTED FROM LANDFILLS.



architecture

20730 PRAIRIE ST. CHATSWORTH, CA 91311



20730 PRAIRIE ST. CHATSWORTH. CA 91311

Phase

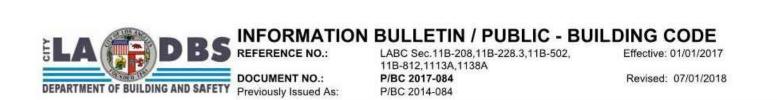
Consultants:

CIVIL	RA SMITH
STRUCTURAL	HSA
MECHANICAL	RPM
PLUMBING	RPM
ELECTRICAL	RPM
ANDSCAPE	HUNTER
TRE PROTECTION	-

SOILS ENGINEER

GENERAL NOTES

Project Number:	19415
Drawn by:	DH
Date:	11/27/2019
Revision:	



ACCESSIBILITY DETAILS FOR PARKING

WHERE ACCESSIBLE PARKING IS REQUIRED.

Where parking spaces are provided, parking spaces shall be provided in accordance with Section 11B-208. Exception: Parking spaces used exclusively for buses, trucks, other delivery

vehicles, or vehicular impound shall not be required to comply with Section

11B-208 provided that lots accessed by the public are provided with a passenger drop-off and loading zone complying with Section 11B-503. Minimum number. Parking spaces complying with Section 11B-502 shall be provided in accordance with Table 11B-208.2 except as required by Sections

11B-208.2.1, 11B-208.2.2, and 11B-208.2.3. Where more than one parking facility is provided on a site, the number of accessible spaces provided on the site shall be calculated according to the number of spaces required for each parking facility.

Hospital outpatient facilities. Ten percent of patient and visitor parking spaces provided to serve hospital outpatient facilities, and free-standing buildings providing outpatient clinical services of a hospital, shall comply with Rehabilitation facilities and outpatient physical therapy facilities.

Twenty percent of patient and visitor parking spaces provided to serve

rehabilitation facilities specializing in treating conditions that affect mobility and outpatient physical therapy facilities shall comply with Section 11B-

Residential facilities. Parking spaces provided to serve residential facilities shall comply with Section 11B-208.2.3.

Parking for guests, employees, and other non-residents. Where parking spaces are provided for persons other than residents, parking shall be provided in accordance with Table 11B-208.2.

Requests for accessible parking spaces. When assigned parking is provided, designated accessible parking for the adaptable residential dwelling units shall be provided on requests of residents with disabilities on the same terms and with the full range of choices (e.g., off-street parking, carport or garage) that are available to other residents.

Van parking spaces. For every six or fraction of six parking spaces required by Section 11B-208.2 to comply with Section 11B-502, at least one shall be a van parking space complying with Section 11B-502.

Location. Parking facilities shall comply with Section 11B-208.3.

General. Parking spaces complying with Section 11B-502 that serve a particular building or facility shall be located on the shortest accessible route from parking to an entrance complying with Section 11B-206.4. Where parking serves more than one accessible entrance, parking spaces complying with Section 11B-502 shall be dispersed and located on the shortest accessible route to the accessible entrances. In parking facilities that do not serve a particular building or facility, parking spaces complying with Section 11B-502 shall be located on the shortest accessible route to an accessible pedestrian entrance of the parking facility.

1. All van parking spaces shall be permitted to be grouped on one level within a multi-story parking facility. 2. Parking spaces shall be permitted to be located in different parking facilities if substantially equivalent or greater accessibility is provided in terms of distance from an accessible entrance or entrances, parking fee, and user

TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY	MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

TABLE 11B-208.2 PARKING SPACES

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities.

AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY

ACCESSIBLE PARKING SIGN INSTALLED AT EACH SPACE



As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide

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Valet parking. Parking facilities that provide valet parking services shall

provide at least one passenger loading zone complying with Section 11B-

503. The parking requirements of Section 11B-208.1 apply to facilities with

Mechanical access parking garages. Mechanical access parking garages

shall provide at least one passenger loading zone complying with Section

parking

11B-503 at vehicle drop-off and vehicle pick-up areas.

PASSENGER DROP-OFF AND LOADING ZONES

General. Passenger drop-off and loading zones shall comply with Section

Vehicle pull-up space. Passenger drop-off and loading zones shall provide a

vehicular pull-up space 96 inches wide minimum and 20 feet long minimum. Access aisle. Passenger drop-off and loading zones shall provide access aisles complying with Section 11B-503 adjacent and parallel to the vehicle pullup space. Access aisles shall adjoin an accessible route and shall not overlap

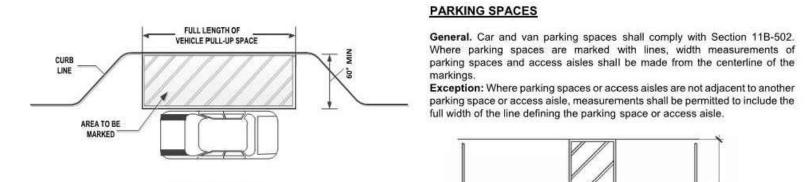


FIGURE 11B-503.3 PASSENGER DROP-OFF AND LOADING ZONE ACCESS AISLE

Width. Access aisles serving vehicle pull-up spaces shall be 60 inches wide Length. Access aisles shall extend the full length of the vehicle pull-up spaces

they serve. Marking. Access aisles shall be marked with a painted borderline around their perimeter. The area within the borderlines shall be marked with hatched lines a maximum of 36 inches on center in a color contrasting with that of the

Floor and ground surfaces. Vehicle pull-up spaces and access aisles serving them shall comply with Section 11B-302. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not

Exception: Slopes not steeper than 1:48 shall be permitted. Vertical clearance. Vehicle pull-up spaces, access aisles serving them, and a vehicular route from an entrance to the passenger loading zone and from the passenger drop-off and loading zone to a vehicular exit shall provide a vertical clearance of 114 inches minimum.

Identification. Each passenger loading zone designated for persons with disabilities shall be identified with a reflectorized sign complying with Section 11B-703.5. It shall be permanently posted immediately adjacent to and visible from the passenger loading zone stating "Passenger Loading Zone Only" and including the International Symbol of Accessibility complying with Section 11B-703.7.2.1 in white on a dark blue background.

Medical care and long-term care facilities. At least one passenger drop-off and loading zone complying with Section 11B-503 shall be provided at an accessible entrance to licensed medical care and licensed long-term care facilities where the period of stay may exceed twenty-four hours.

accommodation to ensure equal access to its programs, services and activities.

FIGURE 11B-502.2 VEHICLE PARKING SPACES As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable

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on the passenger side of the vehicle spaces.

Electrical Vehicle Charging Stations

Electric vehicle charging stations (EVCS) shall comply with Section 11B-812 as required by Section 11B-228.3. Where vehicle spaces and access aisles are marked with lines, measurements shall be made from the centerline of

Exception: 11B-812.1

aisle surface.

Operable parts shall comply with Section 11B-309. Future installation of Electric Vehicle (EV) Chargers serving Covered

MultiFamily Dwellings shall be on accessible route per 1113A and shall be in compliance with section 1138A reach range requirements Floor or ground surfaces. Vehicle spaces and access aisles serving them shall comply with Section 11B-302. Access aisles shall be at the same level as the vehicle space they serve. Changes in level, slopes exceeding 1:48, and detectable warnings shall not be permitted in vehicle spaces and access

Vertical clearance. Vehicle spaces, access aisles serving them, and vehicular routes serving them shall provide a vertical clearance of 98 inches (2489 mm) minimum. Where provided, overhead cable management systems shall not obstruct required vertical clearance.

Accessible route to building or facility. EVCS complying with Section 11B-812 that serve a particular building or facility shall be located on an accessible route to an entrance complying with Section 11B-206.4. Where EVCS do not serve a particular building or facility, EVCS complying with Section 11B-812 shall be located on an accessible route to an accessible pedestrian entrance of the EV charging facility.

Exception: 11B-812.5.1 Accessible route to EV charger. An accessible route complying with Section 11B-402 shall connect the vehicle space and the EV charger which

Relationship to accessible routes. Vehicle spaces and access aisles shall be designed so that when the vehicle space is occupied the required clear width of adjacent accessible routes is not obstructed. A curb, wheel stop, bollards, or other barrier shall be provided if required to prevent encroachment of vehicles over the required clear width of adjacent accessible routes.

Arrangement, Vehicle spaces and access aisles shall be designed so that persons using them are not required to travel behind vehicle spaces or parking spaces other than the vehicle space in which their vehicle has been left to charge. Exceptions: 11B-812.5.4

Obstructions. EVCS shall be designed so accessible routes are not obstructed by cables or other elements. Vehicle spaces. Vehicle spaces serving van accessible, standard accessible, ambulatory and drive-up EVCS shall be 216 inches (5486 mm) long minimum and shall com ply with Sections 11B-812.6.1 through 11B-

812.6.4 as applicable. All vehicle spaces shall be marked to define their

shall be 108 inches (2743 mm) wide minimum and shall have an adjacent

Exceptions: 11B-812.6

access aisle complying with Section 11B-812.7.

Van accessible. Vehicle spaces serving van accessible EVCS shall be 144 inches (3658 mm) wide minimum and shall have an adjacent access aisle complying with Section 11B-812.7. Standard accessible. Vehicle spaces serving standard accessible EVCS

Ambulatory. Vehicle spaces serving ambulatory EVCS shall be 120 inches (3048 mm) wide minimum and shall not be required to have an adjacent Drive-up. Vehicle spaces serving drive-up EVCS shall be 204 inches (5182 mm) wide minimum and shall not be required to have an adjacent access

Access aisle. Access aisles shall adjoin an accessible route. Two vehicle spaces shall be permitted to share a common access aisle. Access aisles shall be 60 inches (1524 mm) wide minimum and shall extend the full required length of the vehicle spaces they serve. Location. Access aisles at vehicle spaces shall not overlap the vehicular way and may be placed on either side of the vehicle space they serve except for van accessible spaces which shall have access aisles located

Marking. Access aisles at vehicle spaces shall be marked with a painted porderline around their perimeter. The area within the borderlines shall be marked with hatched lines a maximum of 36 inches (914 mm) on center. The color of the borderlines, hatched lines, and letters shall contrast with that of the surface of the access aisle. The blue color required for identification of access aisles for accessible parking shall not be used. Access aisle markings may extend beyond the minimum required length.

Lettering. The words "NO PARKING" shall be painted on the surface within each access aisle in letters a minimum of 12 inches (305 mm) in height and located to be visible from the adjacent vehicular way.

Identification signs. EVCS identification signs shall be provided in compliance with Section 11B-812.8. Four or fewer. Where four or fewer total EVCS are provided, identification with an International Symbol of Accessibility (ISA) and sign identifying van

accessible spaces shall not be required. Five to twenty-five. Where five to twenty-five total EVCS are provided, one van accessible EVCS shall be identified by an ISA complying with Section 11B-703.7.2.1. The required standard accessible EVCS shall not be required to be identified with an ISA.

Twenty-six or more. Where twenty-six or more total EVCS are provided, all required van accessible and all required standard accessible EVCS shall be identified by an ISA complying with Section 11B-703.7.2.1.

Ambulatory. Ambulatory EVCS shall not be required to be identified by an

Drive-up. Drive-up EVCS shall not be required to be identified by an ISA. Finish and size. Identification signs shall be reflectorized with a minimum area of 70 square inches (45 161 mm2).

Location. Required identification signs shall be visible from the EVCS it serves. Signs shall be permanently posted either immediately adjacent to the vehicle space or within the projected vehicle space width at the head end of the vehicle space. Signs identifying van accessible vehicle spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign. Signs located within an accessible route shall be 80 inches (2032 mm) minimum above the finish floor or ground surface measured to the bottom of the sign. Signs may also be permanently posted on a wall at the interior end of the vehicle space.

Surface marking. EVCS vehicle spaces shall provide surface marking stating "EV CHARGING ONLY" in letters 12 inches (305 mm) high minimum The centerline of the text shall be a maximum of 6 inches (152 mm) from the centerline of the vehicle space and its lower corner at, or lower side aligned with, the end of the parking space length.

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Vehicle spaces. Car and van parking spaces shall be 216 inches (18 feet) long minimum. Car parking spaces shall be 108 inches (9 feet) wide minimum and van parking spaces shall be 144 inches (12 feet) wide

Access aisle. Access aisles serving parking spaces shall comply with Section 11B-502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

access aisle complying with Section 11B-502.3.

minimum, shall be marked to define the width, and shall have an adjacent

Exception: Van parking spaces shall be permitted to be 108 inches (9

feet) wide minimum where the access aisle is 96 inches (8 feet) wide

Width. Access aisles serving car and van parking spaces shall be 60

inches (5 feet) wide minimum. Length. Access aisles shall extend the full required length of the parking spaces they serve.

Marking. Access aisles shall be marked with a blue painted borderline around their perimeter. The area within the blue borderlines shall be marked with hatched lines a maximum of 36 inches (3 feet) on center in a color contrasting with that of the aisle surface, preferably blue or white. The words "NO PARKING" shall be painted on the surface within each access aisle in white letters a minimum of 12 inches (1 foot) in height and located to be visible from the adjacent vehicular way. Access aisle markings may extend beyond the minimum required length.

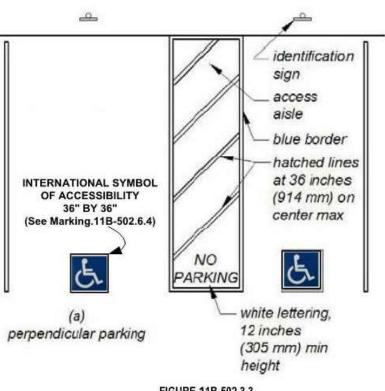
Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

Floor or ground surfaces. Parking spaces and access aisles serving them shall comply with Section 11B- 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not Exception: Slopes not steeper than 1:48 shall be permitted.

Vertical clearance. Parking spaces, access aisles and vehicular routes serving them shall provide a vertical clearance of 98 inches (2489 mm) minimum. dentification. Parking space identification signs shall include the International Symbol of Accessibility complying with Section 11B-

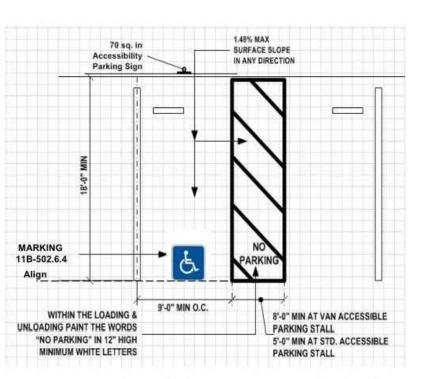
703.7.2.1. Signs identifying van parking spaces shall contain additional language or an additional sign with the designation "van accessible." Signs shall be 60 inches (5 feet) minimum above the finish floor or ground urface measured to the bottom of the sign. Exception: Signs located within an accessible route shall be a minimum of 80 inches (6 feet, 8 inches) above the finish floor or ground surface measured to the bottom of the sign. Finish and size. Parking identification signs shall be reflectorized with

a minimum area of 70 square inches. Minimum fine. Additional language or an additional sign below the International Symbol of Accessibility shall state "Minimum Fine \$250."



P/BC 2017-084

FIGURE 11B-502.3.3 PERPENDICULAR PARKING IDENTIFICATION



VAN PARKING SPACES SHALL BE PERMITTED TO BE 108 INCHES (9 FEET) WIDE MINIMUM WHERE THE ACCESS AISLE IS 96 INCHES (8 FEET) WIDE MINIMUM.

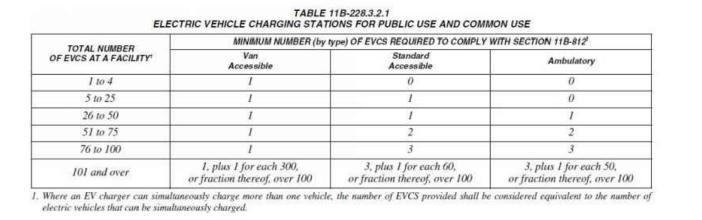


P/BC 2017-084 THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY

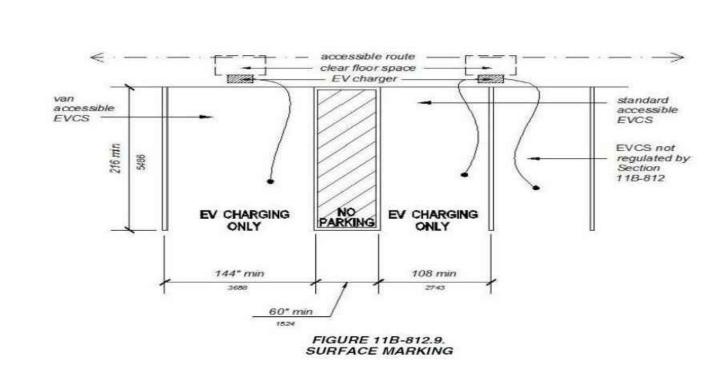
Electric vehicle chargers EV chargers shall comply with Section 11B-812.10.Operable parts and charging cord storage shall comply with Section 11B-309.

reasonable accommodation to ensure equal access to its programs, services and activities.

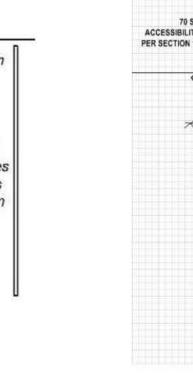
Point-of-sale devices. Where provided, point-of-sale devices shall comply with Sections 11B-707.2, 11B-707.3, 11B-707.7,2, and 11B-07.9. Location. EV chargers shall be adjacent to, and within the projected width of, the vehicle space being served. Exceptions:11B-812.10.4



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Location. A parking space identification sign shall be visible from each

at the head end of the parking space. Signs may also be permanently posted on a wall at the interior end of the parking space. identification complying with either Sections 11B-502.6.4.1 or 11B-

Marking. Each accessible car and van space shall have surface

parking space. Signs shall be permanently posted either immediately

adjacent to the parking space or within the projected parking space width

5'-0" MIN. AT TYPICAL ACCESSIBLE

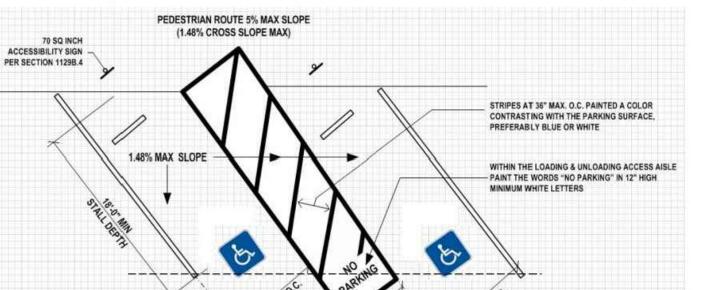
8'-0" MIN. AT VAN ACCESSIBL

PARKING STALL

The parking space shall be marked with an International Symbol of Accessibility complying with Section 11B-703.7.2.1 in white on a blue background a minimum 36 inches wide by 36 inches high. The centerline of the International Symbol of Accessibility shall be a maximum of 6 inches from the centerline of the parking space, its sides parallel to the length of the parking space and its lower corner at, or lower side aligned with, the end of the parking space length.

The parking space shall be outlined or painted blue and shall be marked with an International Symbol of Accessibility complying with Section 11B-703.7.2.1 a minimum 36 inches wide by 36 inches high in white or a suitable contrasting color. The centerline of the International Symbol of Accessibility shall be a maximum of 6 inches from the centerline of the parking space, its sides parallel to the length of the parking space and its lower corner at, or lower side aligned with, the end of the parking space.

Relationship to accessible routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.



AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY

FIGURE 11B-502.3.3 ANGLED PARKING IDENTIFICATION

> 11B-502.7.1 Arrangement. Parking spaces and access aisles shall be designed so that persons using them are not required to travel behind parking spaces other than to pass behind the parking space in which they parked. 11B-502.7.2 Wheel stops. A curb or wheel stop shall be provided if required to prevent encroachment of vehicles over the required clear

P/BC 2017-084

11B-502.8 Additional signage. An additional sign shall be posted

width of adjacent accessible routes.

1) In a conspicuous place at each entrance to an off-street 2) Immediately adjacent to on-site accessible parking and visible

from each parking space. 11B-502.8.1 Size. The additional sign shall not be less than 17 inches

wide by 22 inches high. 11B-502.8.2 Lettering. The additional sign shall clearly state in letters with a minimum height of 1 inch the following: "Unauthorized vehicles parked in designated accessible spaces not displaying distinguishing placards or special license plates issued for persons with disabilities will be towed away at the owner's expense. Towed vehicles maybe reclaimed at: ____ or by telephoning ____

Blank spaces shall be filled in with appropriate information as a permanent part of the sign. (NOTE: Towing Co.'s Name and Telephone Number must be noted on the detail sheet/s on the plans).

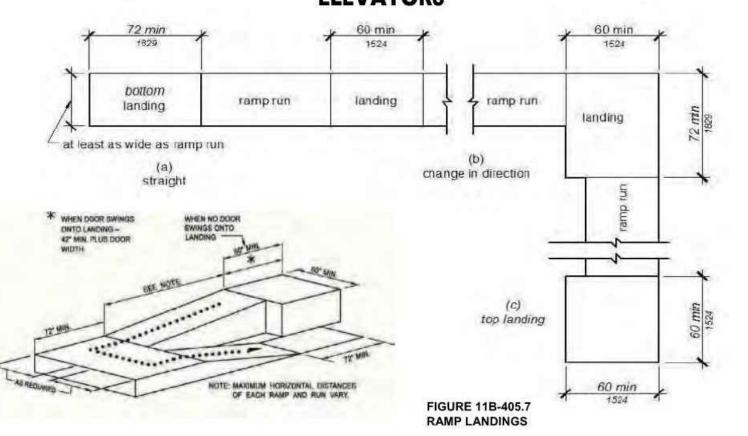
As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. Page 4 of 7

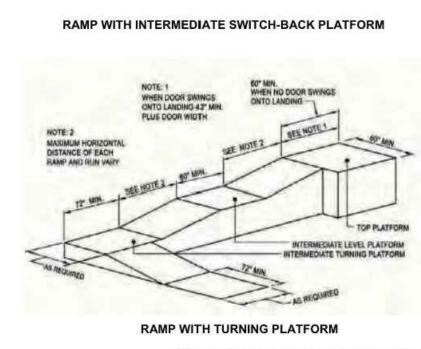


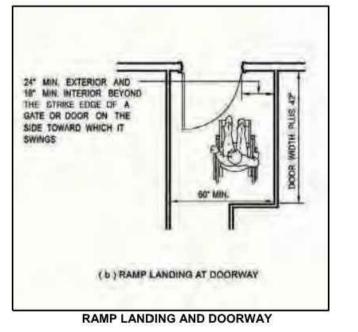
INFORMATION BULLETIN / PUBLIC - BUILDING CODE REFERENCE NO.: LABC Sec.11B-403.404.405.

DOCUMENT NO.: P/BC 2017-085 Previously Issued As: P/BC 2014-085

ACCESSIBILITY DETAILS FOR RAMPS, STAIRS & ELEVATORS







THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION. As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities.

Page 1 of 7

architecture

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Phase

20730 PRAIRIE ST. CHATSWORTH. CA 91311

Consultants:

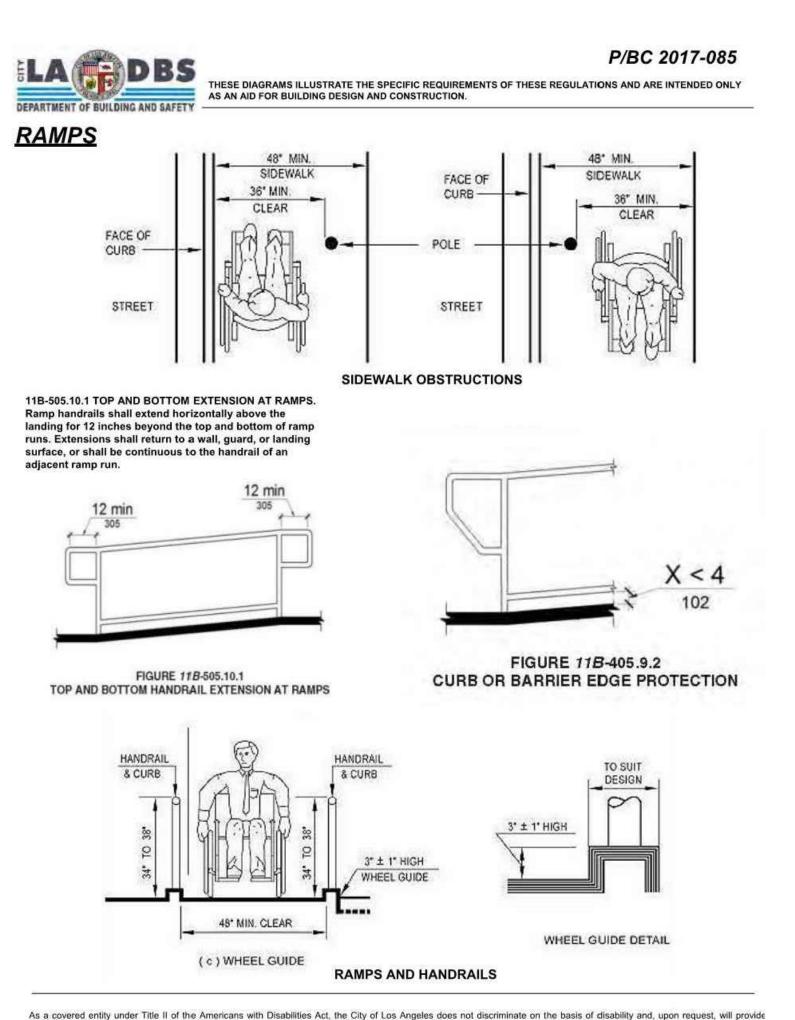
STRUCTURAL HSA MECHANICAL RPM HUNTER

FIRE PROTECTION SOILS ENGINEER

ADA NOTES

19415 Project Number: Drawn by: 11/27/2019

Revision:



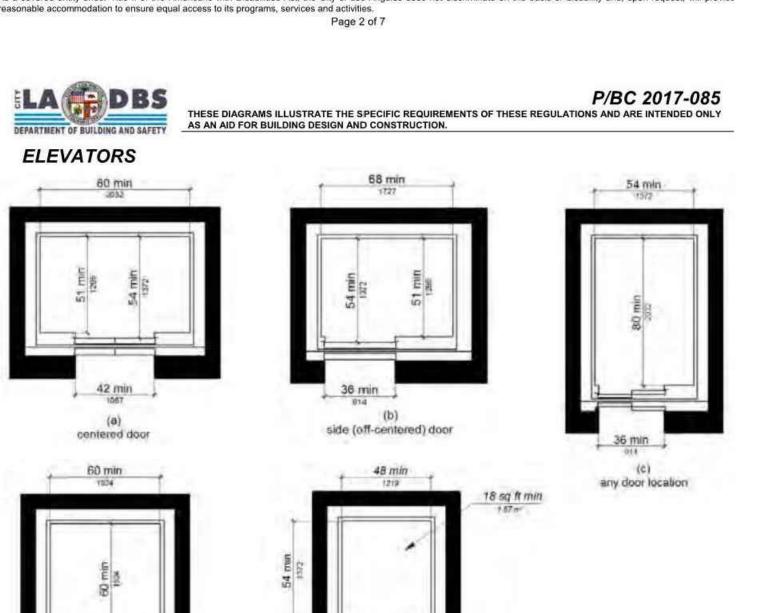


FIGURE 11B-407.4.1

ELEVATOR CAR DIMENSIONS

			ELE	TABLE 11B-407.4.7 ATOR CAR DIMENSIONS
		MINIMUM DIMENSIONS		
DOOR LOCATION	DOOR CLEAR WIDTH	INSIDE CAR, SIDE TO SIDE	INSIDE CAR, BACK WALL TO FRONT RETURN	INSIDE CAR, BACK WALL TO INSIDE FACE OF DOOR
Centered	42 inches	80 inches	51 inches	54 inches
Side (off-centered)	36 inches	68 inches	51 inches	54 inches
Any	36 inches	54 inches	80 inches	80 inches
Any	36 inches	60 in ches	60 inches	60 inches

any door location

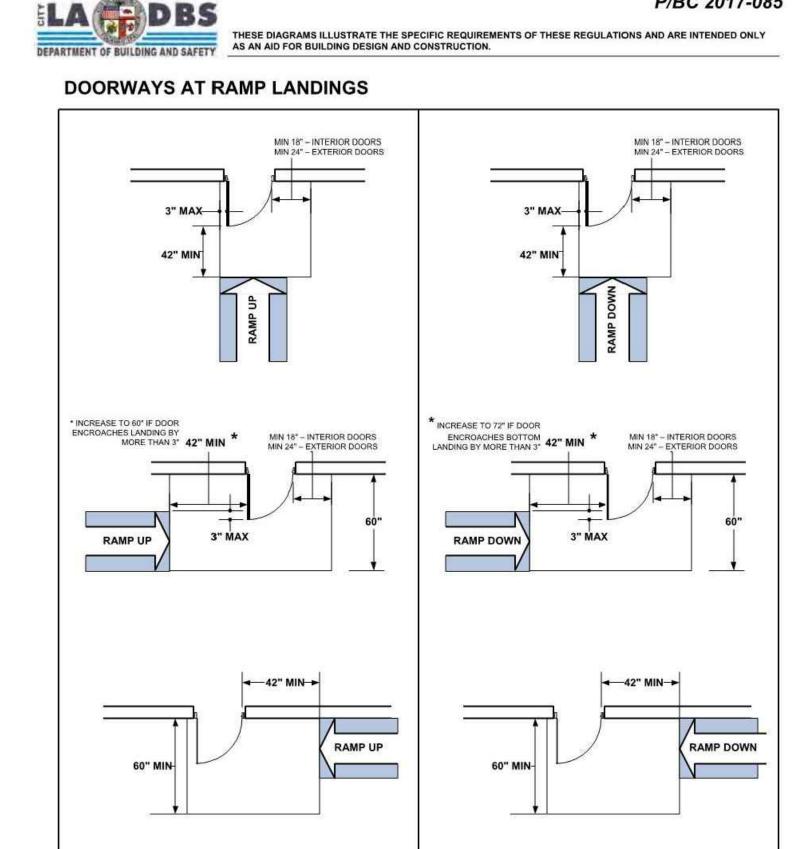
Exception

existing elevator car configuration

A tolerance of minus 5/8 inch (15.9 mm) is permitted.
 Other car configurations that provide a turning space complying with Section 11B-304 with the door closed shall be permitted.

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities.

Page 6 of 7



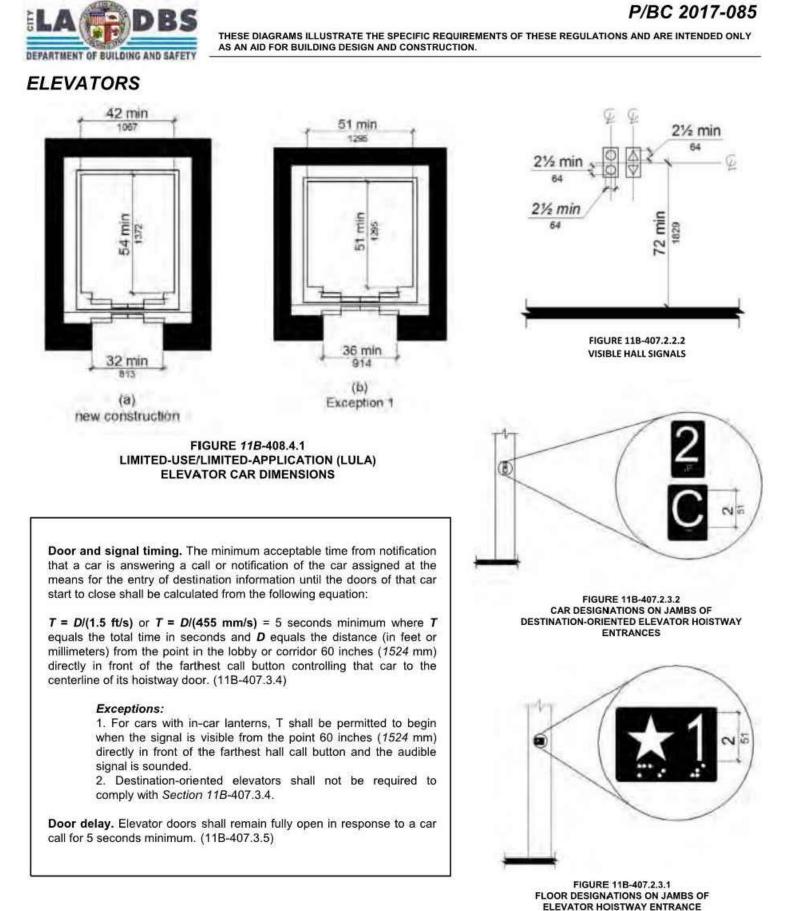
As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities.

DOORWAYS AT BOTTOM LANDING

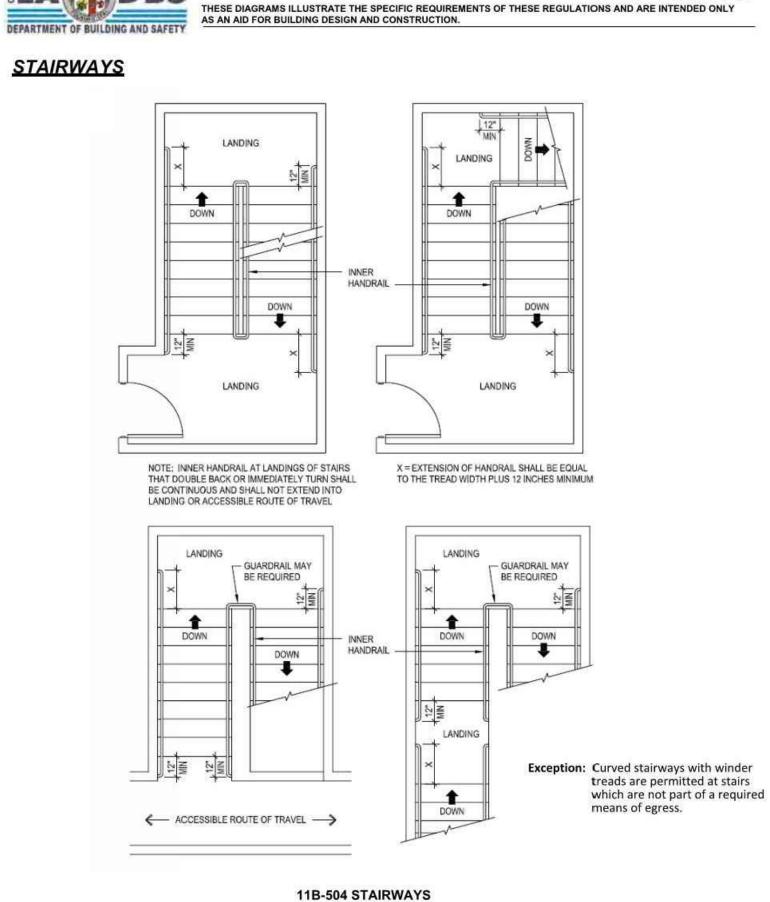
SPACE OF A RAMP

DOORWAYS AT TOP LANDING

SPACE OF A RAMP



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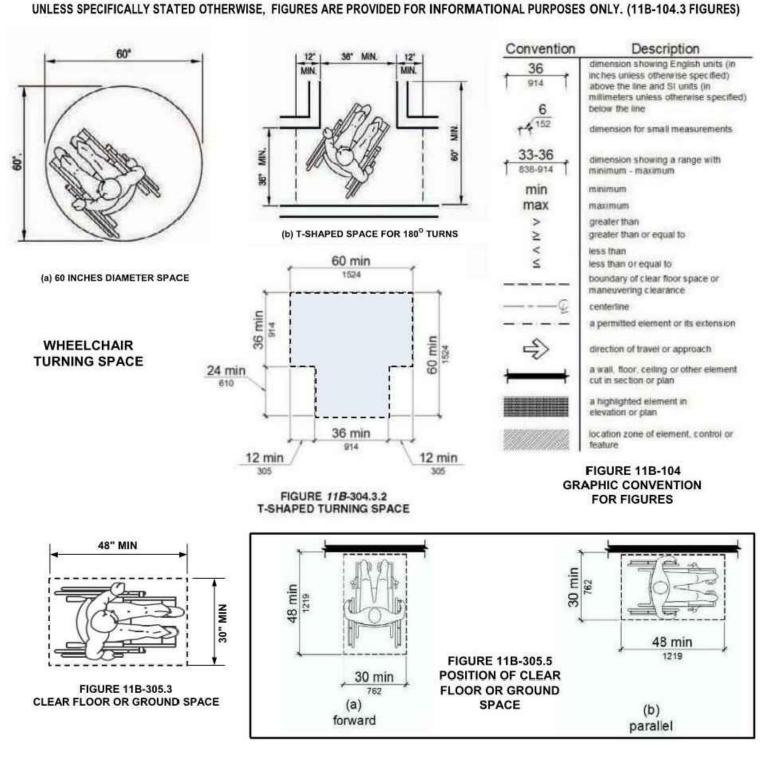
INFORMATION BULLETIN / PUBLIC - BUILDING CODE
REFERENCE NO.: LABC Sec. 11B-304,305,404 Effective: 01/01/2017
DOCUMENT NO.: P/BC 2017-086 Revised: 07/01/2018

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide

Page 4 of 7

DOCUMENT NO.: P/BC 2017-086 Previously Issued As: P/BC 2014-086 ACCESSIBILITY DETAILS

FOR DOORS, MANEUVERING SPACES & ROUTES



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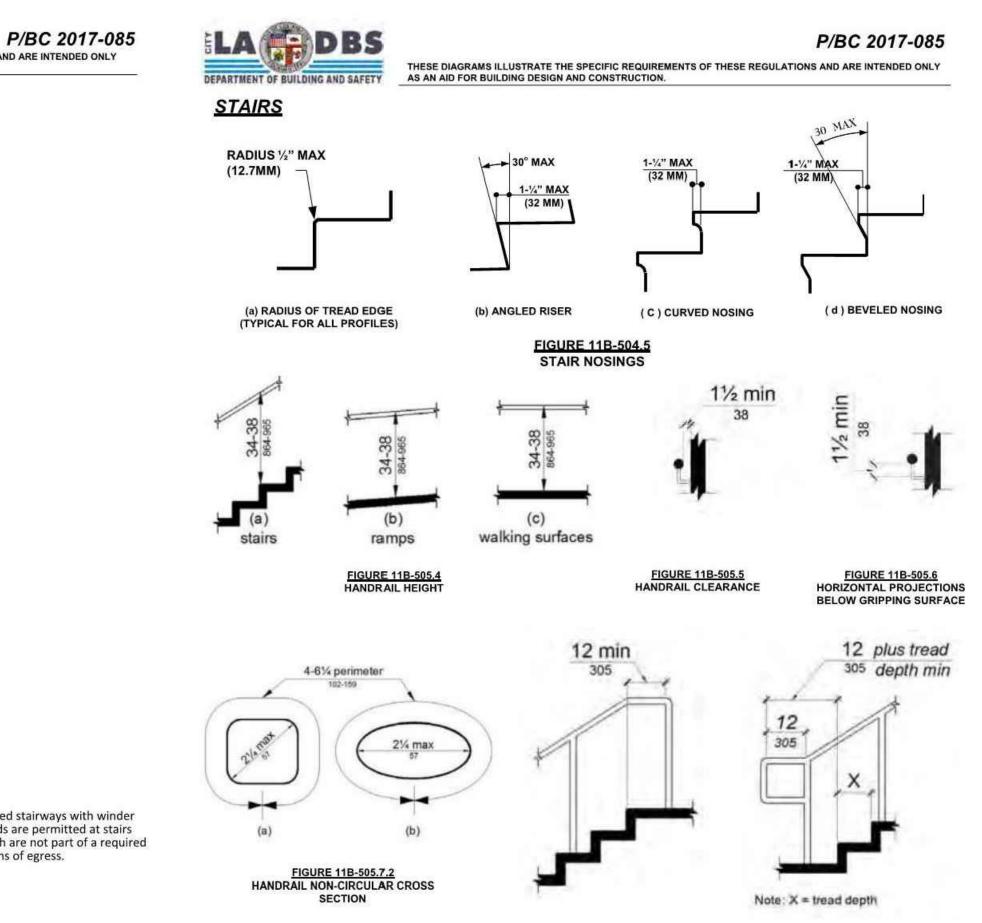




FIGURE 11B-505.10.2

TOP HANDRAIL EXTENSION

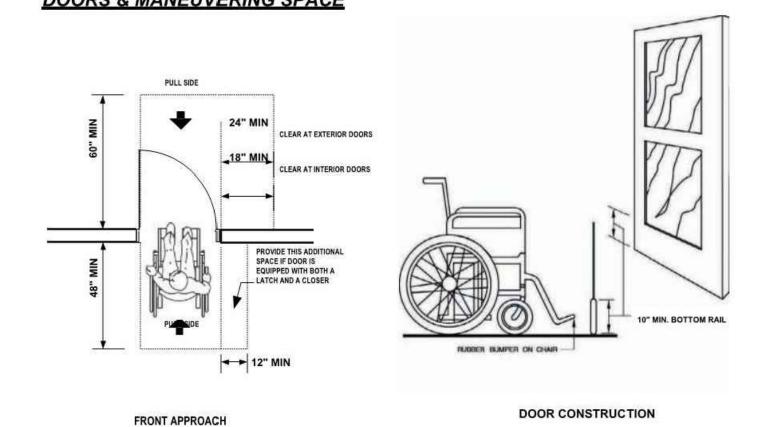
AT STAIRS

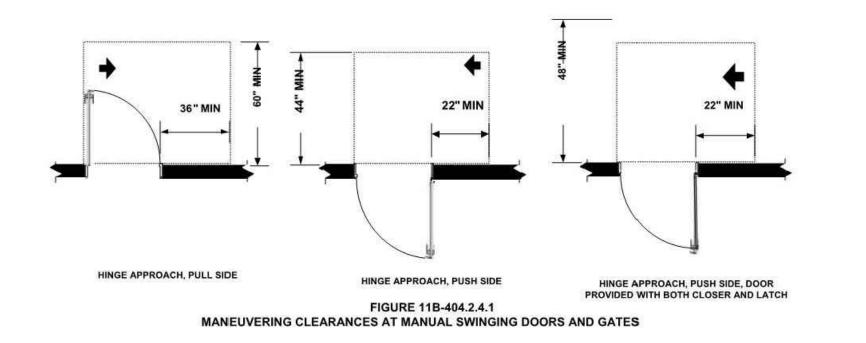
As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide

Page 5 of 7

FIGURE 11B-505.10.3
BOTTOM HANDRAIL EXTENSION

AT STAIRS





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Page 2 of 7

HPA architecture



Owner:

20730 PRAIRIE ST. CHATSWORTH, CA 91311

Project: DAX3

Phase

20730 PRAIRIE ST. CHATSWORTH. CA 91311

Consultants:

CIVIL RASMITH
STRUCTURAL HSA
MECHANICAL RPM
PLUMBING RPM
ELECTRICAL RPM
LANDSCAPE HUNTER
FIRE PROTECTION SOILS ENGINEER -

Title: ADA NOTES

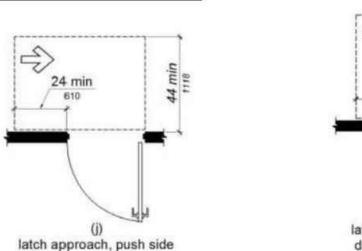
Project Number: 19415
Drawn by: DH
Date: 11/27/2019

Date: 11/27
Revision:

Sheet:

TI-A0.3.2





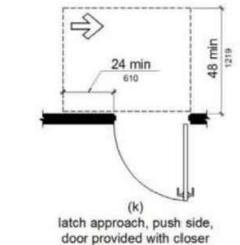


FIGURE 11B-404.2.4.1—continued

MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

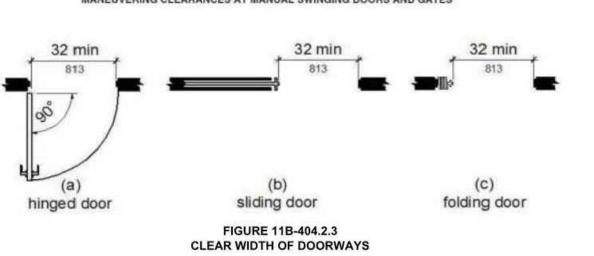


TABLE 11B-404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

TYPE C	F USE	MINIMUM MANEUVERING CLEARANCE		
APPROACH DIRECTION	DOOR or GATE SIDE	PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (beyond latch side unless noted	
From front	Pull	60 inches	18 inches ⁵	
From front	Push	48 inches	0 inches ¹	
From hinge side	Pull	60 inches	36 inches	
From hinge side	Push	44 inches	22 inches ³	
From latch side	Pull	60 inches	24 inches	
From latch side	Push	44 inches	24 inches	

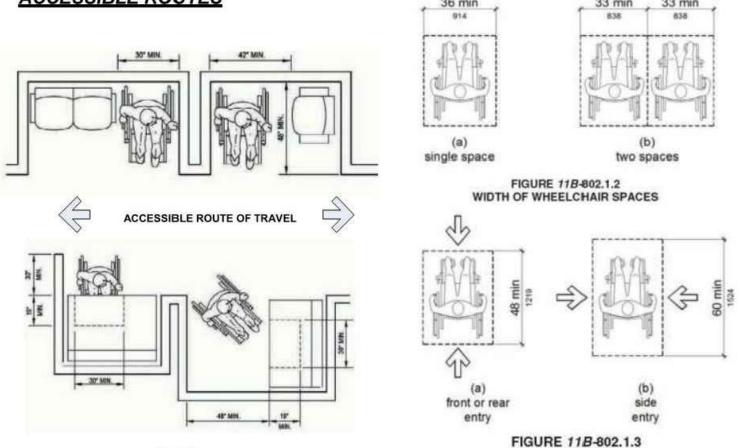
1. ADD 12 INCHES IF CLOSER AND LATCH ARE PROVIDED. 2. ADD 4 INCHES IF CLOSER AND LATCH ARE PROVIDED. 3. BEYOND HINGE SIDE. 4. ADD 4 INCHES IF CLOSER IS PROVIDED.

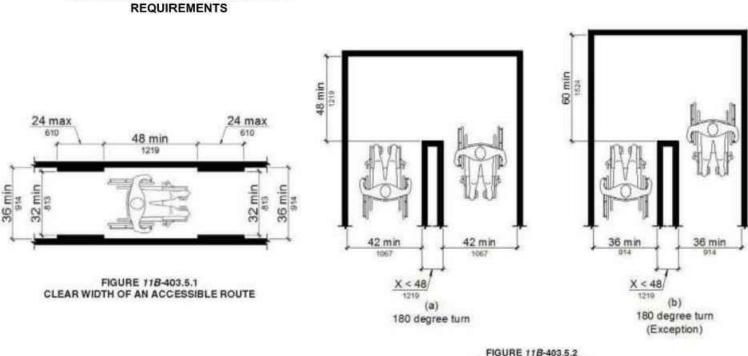
11B-403.5.1

SEE CLEAR WIDTH AND EXCEPTIONS

5. ADD 6 INCHES AT EXTERIOR SIDE OF EXTERIOR DOORS As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities.

P/BC 2017-086 THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

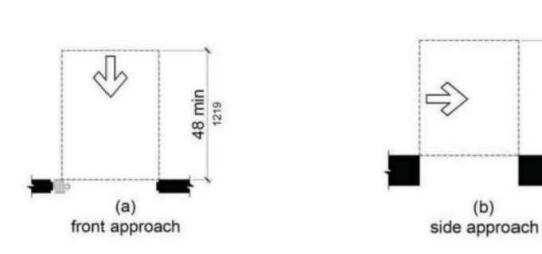


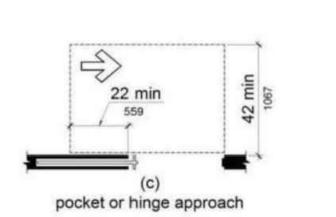


DEPTH OF WHEELCHAIR SPACES

CLEAR WIDTH AT TURN As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities.

LABDBS THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION. **DOORS & MANEUVERING SPACE**





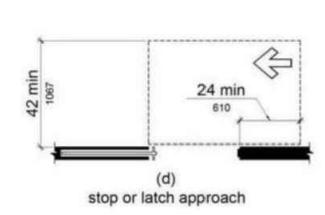


FIGURE 11B-404.2.4.2 MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES, AND FOLDING DOORS

TABLE 11B-404.2.4.2 MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS OR GATES MANUAL SLIDING DOORS AND MANUAL FOLDING DOORS

	MINIMUM MANEUVERING CLEARANCE			
Approach direction	Perpendicular to doorway	Parallel to doorway (beyond stop/latch side unless noted)		
From Front	48 inches	0 inches		
From Side ¹	42 inches	0 inches		
From pocket/hinge side	42 inches	22 inches		
From stop/latch side	42 inches	24 inches		

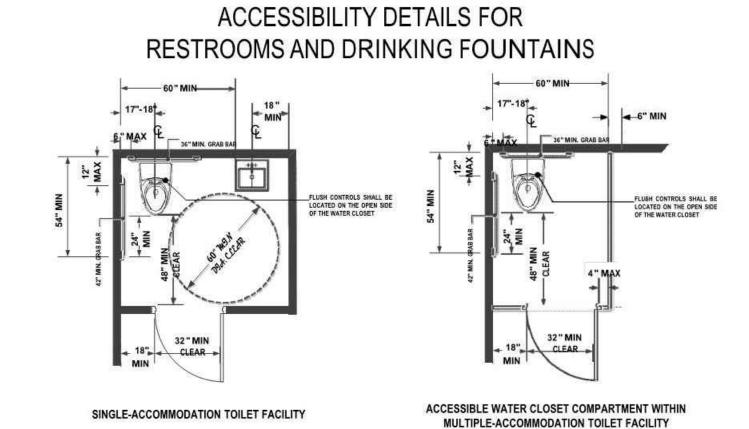
1. Doorway with no door only. 2. Beyond pocket/hinge side

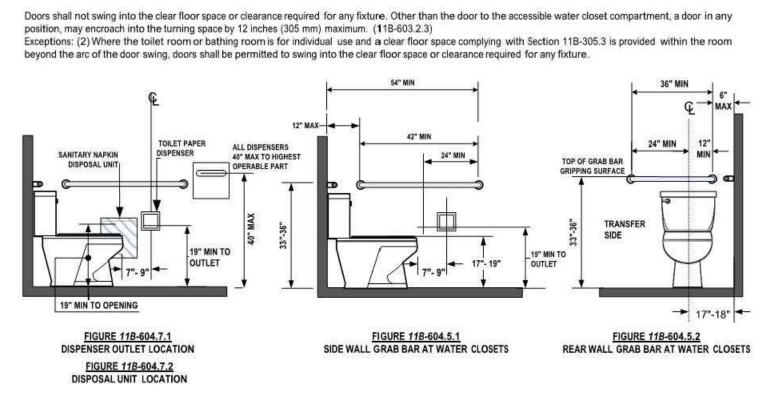
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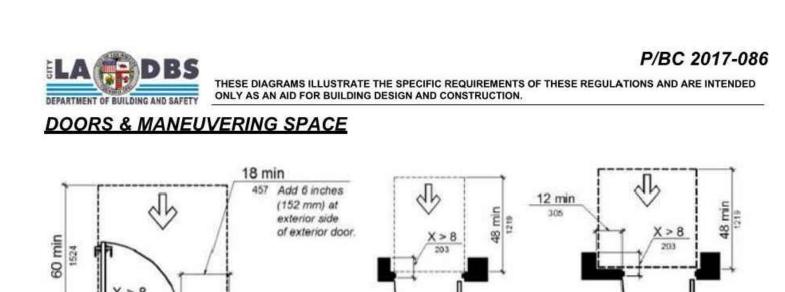
LA DBS INFORMATION BULLETIN / PUBLIC - BUILDING CODE REFERENCE NO.: LABC Chapter 11B

DEPARTMENT OF BUILDING AND SAFETY DOCUMENT NO.: P/BC 2018-087





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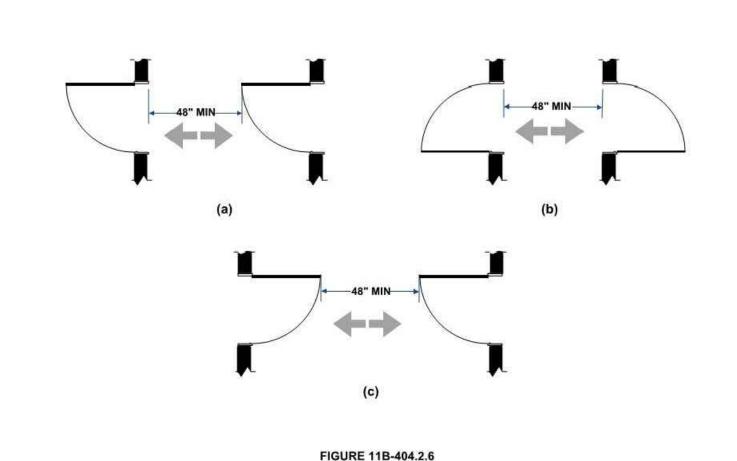


push side

push side, door provided with

both closer and latch

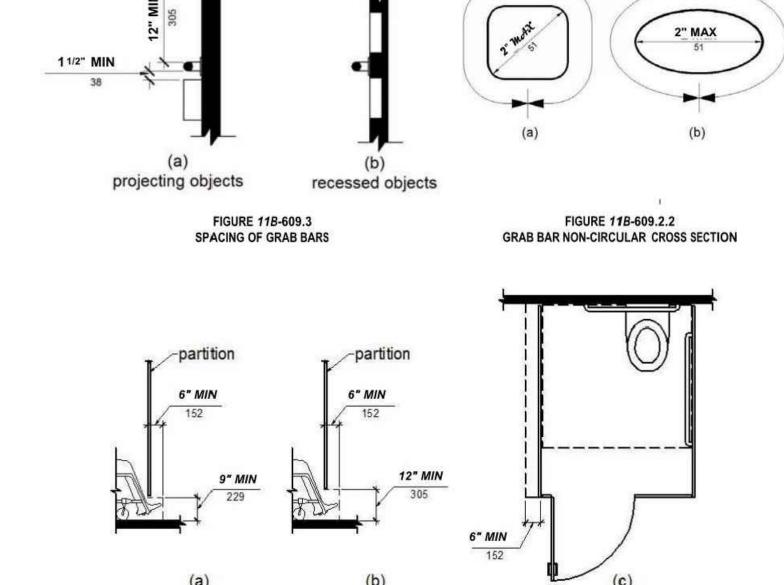
4"- 4.8" PERIMETER



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DOORS IN SERIES AND GATES IN SERIES



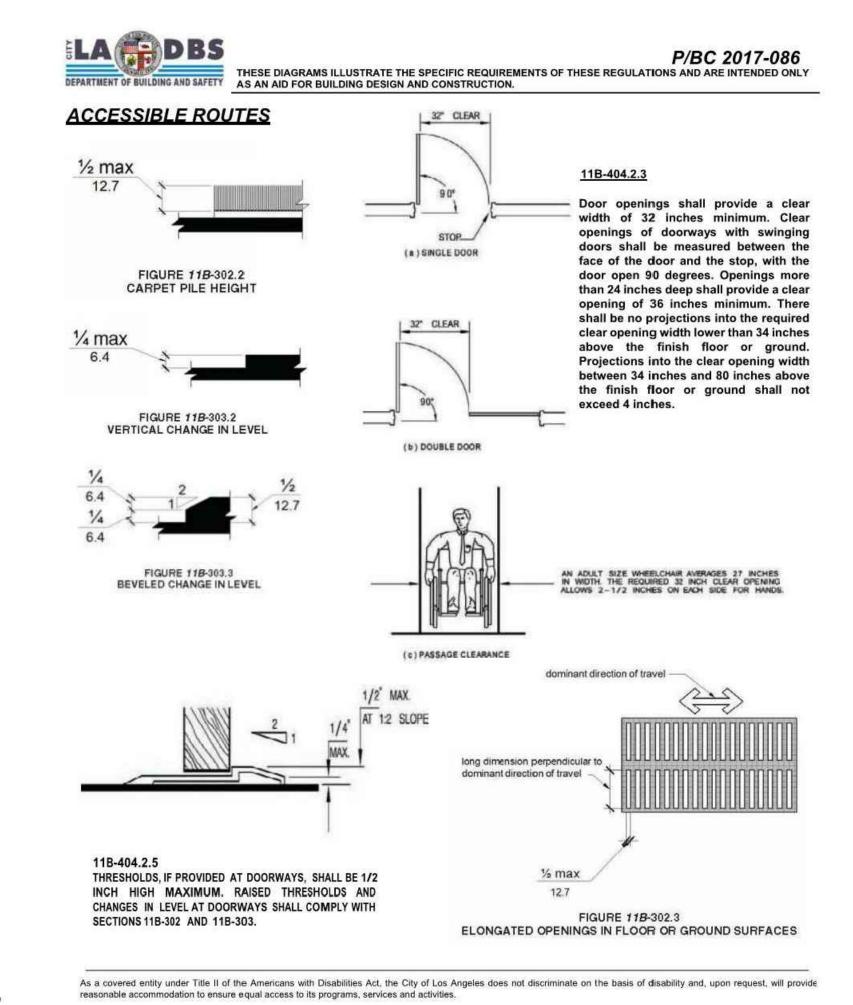


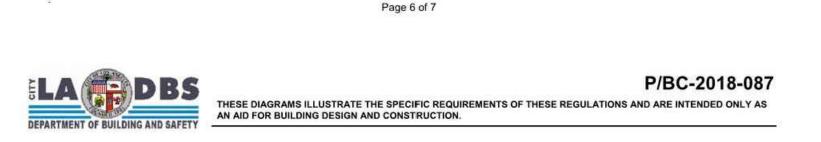
elevation

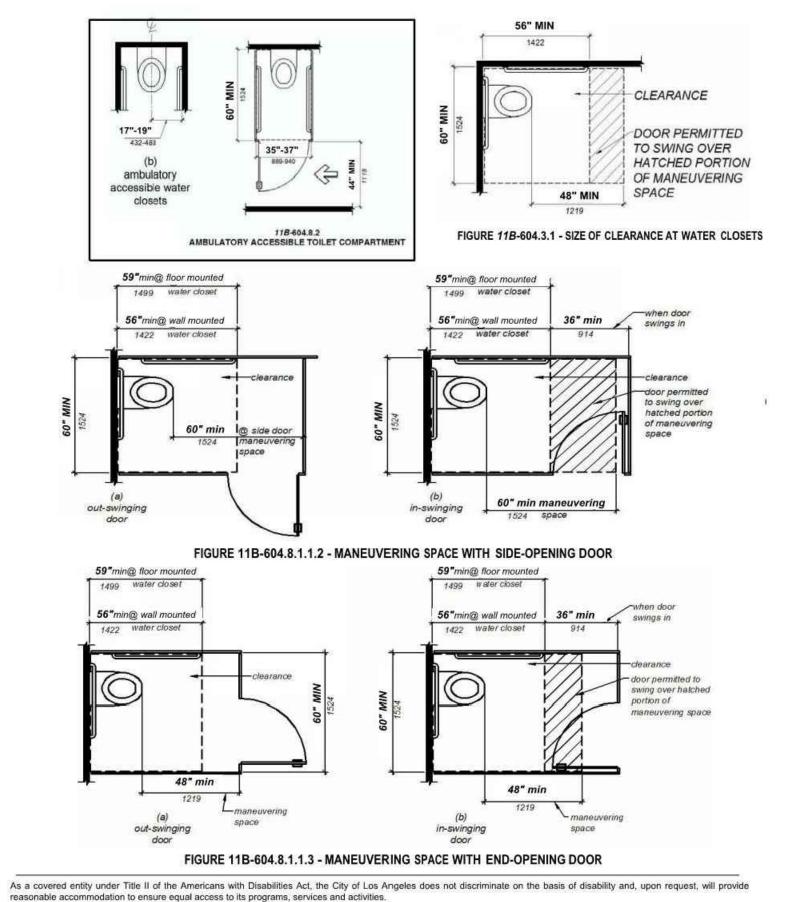
elevation

FIGURE 11B-604.8.1.4 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

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Page 3 of 5



18831 bardeen avenue, - ste. #100 irvine, ca 92612 tel: 949 •863 •1770 fax: 949 • 863 • 0851 email: hpa@hparchs.com



Owner:

20730 PRAIRIE ST. CHATSWORTH, CA 91311



Phase

20730 PRAIRIE ST. CHATSWORTH. CA 91311

Consultants:

STRUCTURAL HSA **MECHANICAL** HUNTER FIRE PROTECTION SOILS ENGINEER

ADA NOTES

19415 Project Number: Drawn by: 11/27/2019 Revision:

DRINKING FOUNTAIN

SPOUT LOCATION

5" MAX *

"HI" FOUNTAIN -

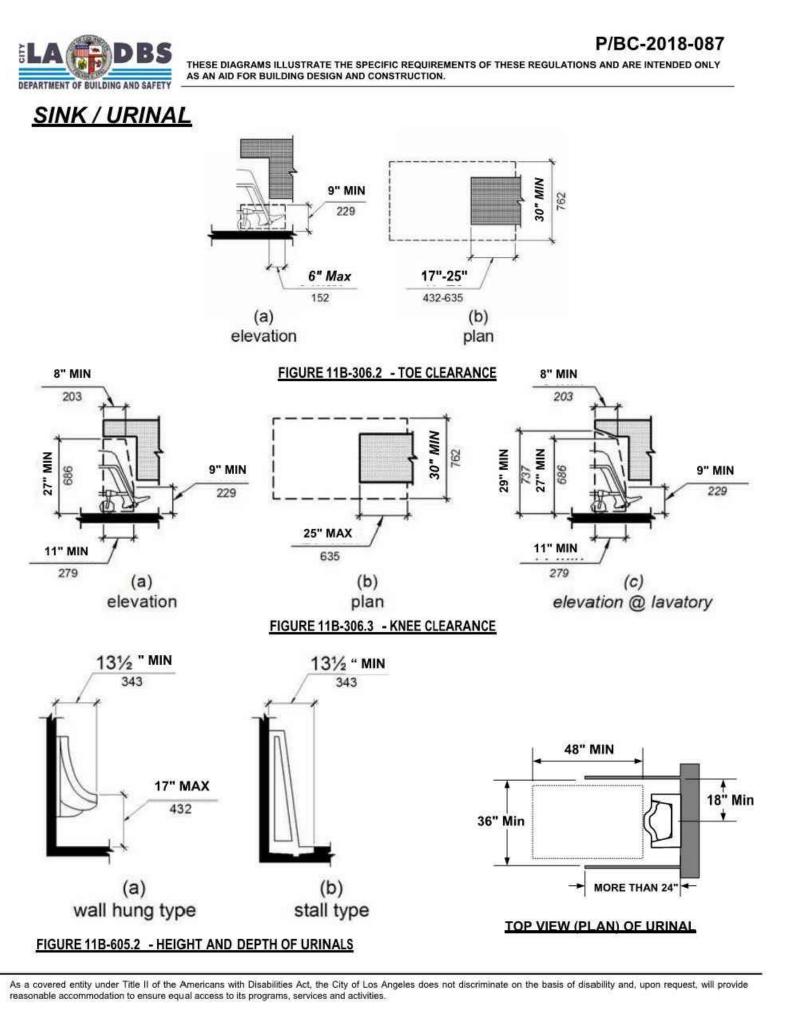
"LOW" FOUNTAIN -

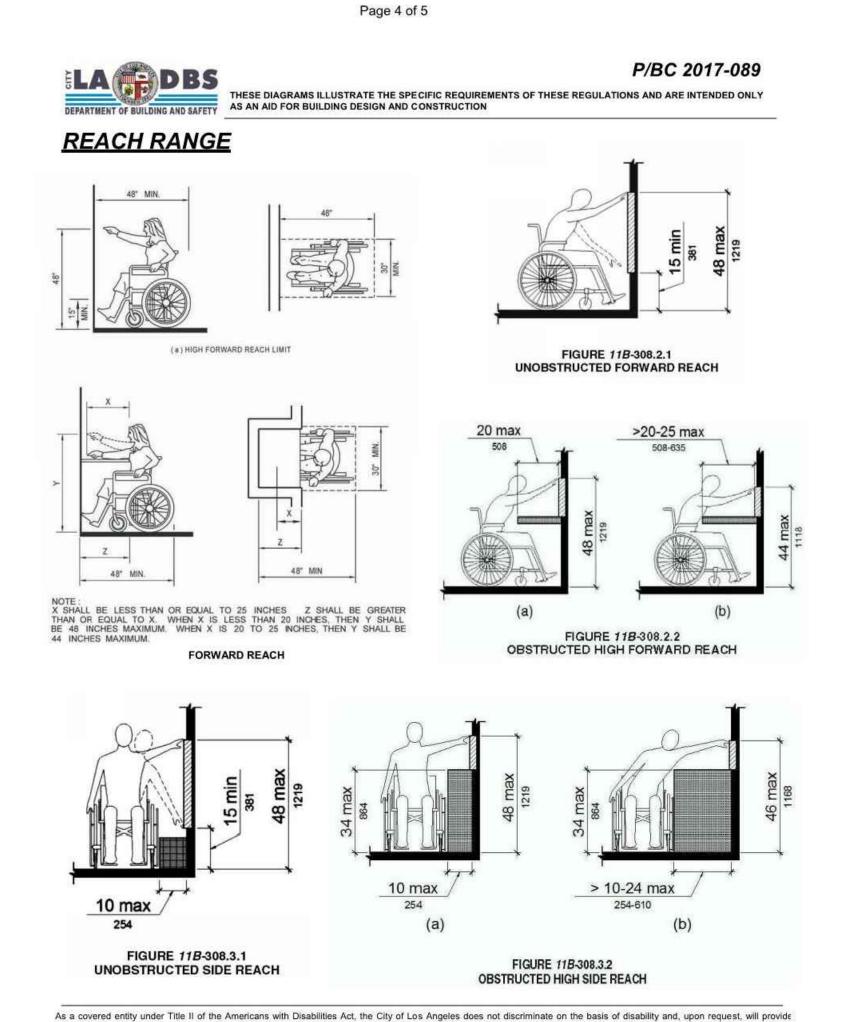
CLEAR FLOOR SPACE AT "HI AND LOW"

DRINKING FOUNTAIN WITHIN ALCOVES

NOTE: IF X = 18" MIN. ALCOVE DEPTH, THEN Y = 32" MIN. IF ALCOVE DEPTH (X) IS GREATER THAN 24", THEN ALCOVE

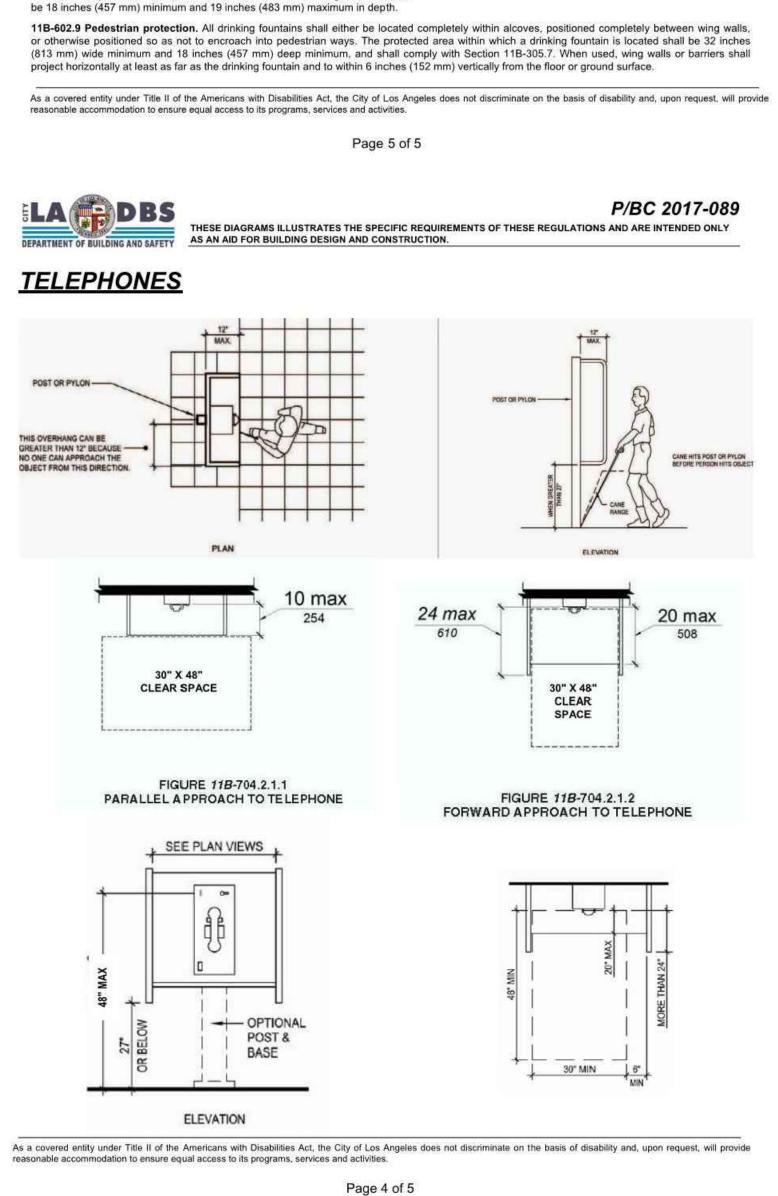
WIDTH (Y) MUST BE MINIMUM OF 36" CLEAR.





Page 3 of 5

reasonable accommodation to ensure equal access to its programs, services and activities.



THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

PLAN OF "LOW"

DRINKING FOUNTAIN

PLAN OF "HI AND LOW"

8" MIN - KNEE CLEARANCE 6" MAX - TOE CLEARANCE

SEE FIGURE 11B-306.2 "TOE CLEARANCE"

SPOUT HEIGHT AND KNEE CLEARANCE AT DRINKING FOUNTAINS

> FIGURE 11B-305.7.1 MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH

inches (1092 mm) maximum above the finish floor or ground.

11B-602.6 Water flow. The spout shall provide a flow of water 4 inches (102 mm) high minimum and shall be located 5 inches (127 mm) maximum from the

front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches

(76 mm) of the front of the unit, the angle of the water stream shall be 30 degrees

maximum. Where spouts are located between 3 inches (76 mm) and 5 inches (127 mm) maximum from the front of the unit, the angle of the water stream shall

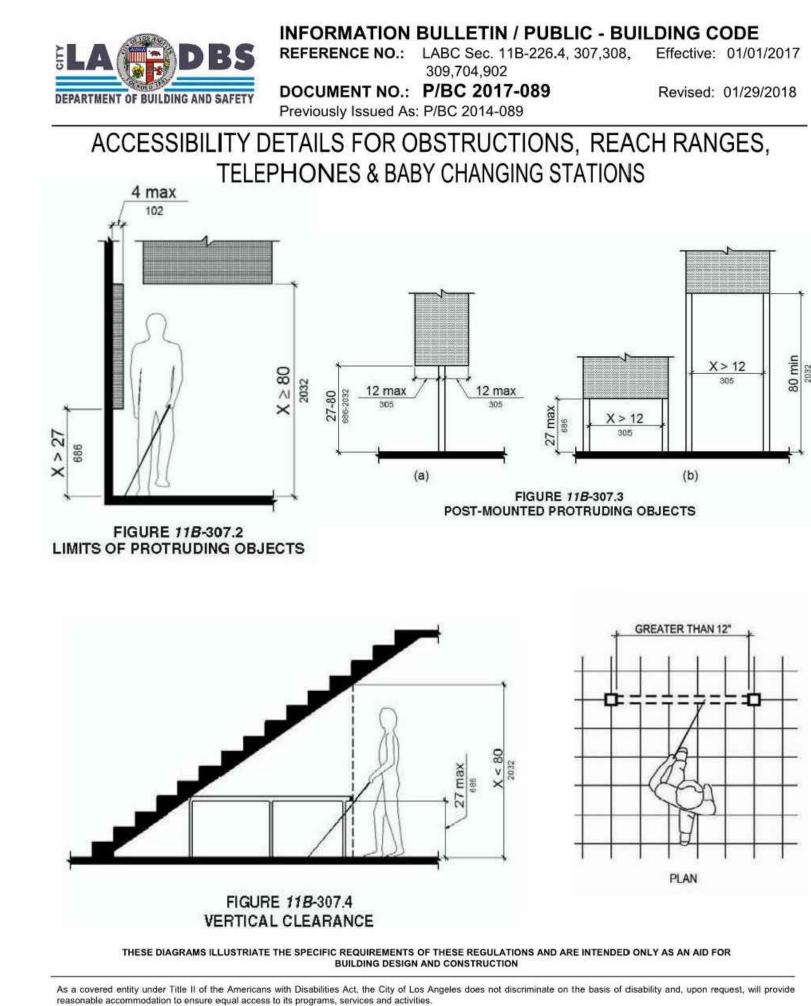
11B-602.7 Drinking fountains for standing persons. Spout outlets of drinking

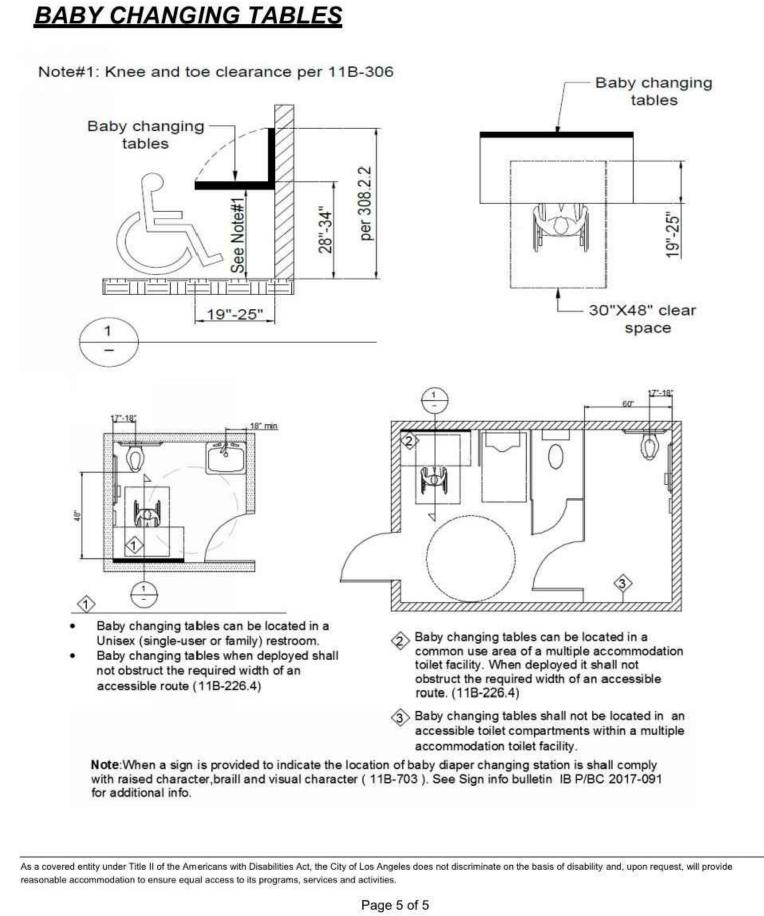
fountains for standing persons shall be 38 inches (965 mm) minimum and 43

11B-602.8 Depth. Wall- and post-mounted cantilevered drinking fountains shall

* EQUIPMENT PERMITTED IN SHADED AREA

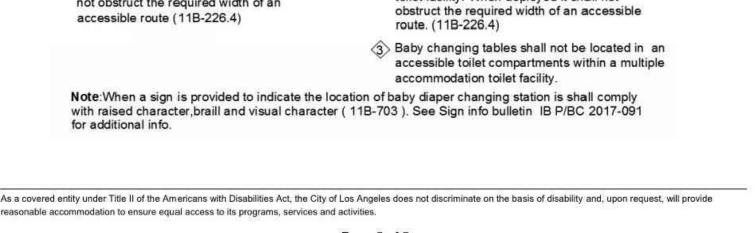
17" MIN - 25" MAX

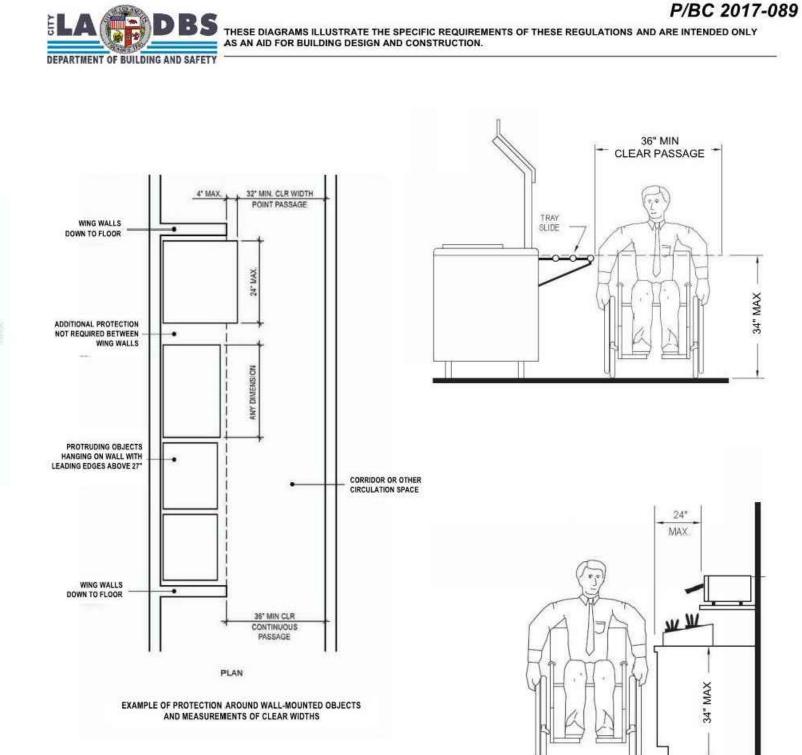


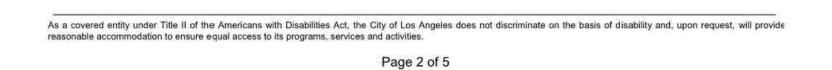


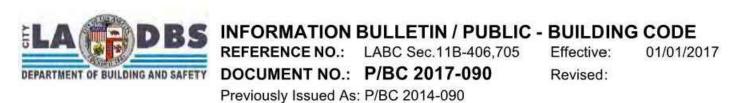
THESE DIAGRAMS ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY

EPARTMENT OF BUILDING AND SAFETY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.







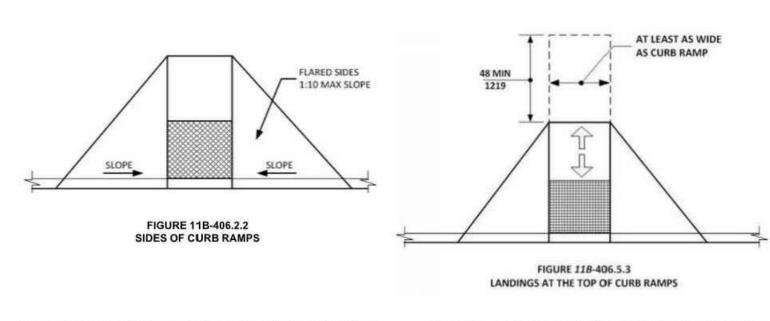


ACCESSIBILITY DETAILS FOR CURBS, BLENDED TRANSITIONS, ISLANDS AND DETECTABLE WARNINGS

GENERAL. Curb ramps, blended transitions and islands on accessible routes shall comply with Section 11B- 406. Curb ramps may be perpendicular, parallel, or a combination of perpendicular and parallel.

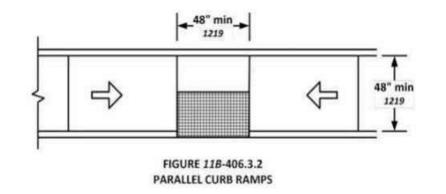
P/BC 2017-089

LANDINGS. Landings shall be provided at the tops of curb ramps and blended transitions. The landing clear length shall be 48 inches (1219 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding any flared sides, or the blended transition leading to the landing. The slope of the landing in all directions shall be



TURNING SPACE. A turning space 48 inches (1219 mm) minimum by 48 inches (1219 mm) minimum shall be provided at the bottom of the curb ramp. The slope of the turning space in all directions shall be 1:48 max.

LOCATION. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared



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hpa, inc. 18831 bardeen avenue, - ste. #100 irvine, ca 92612 tel: 949 •863 •1770 fax: 949 • 863 • 0851 email: hpa@hparchs.com



Owner:

20730 PRAIRIE ST. CHATSWORTH, CA 91311



Phase

20730 PRAIRIE ST. CHATSWORTH. CA 91311

Consultants:

RA SMITH STRUCTURAL HSA MECHANICAL RPM HUNTER LANDSCAPE FIRE PROTECTION SOILS ENGINEER

ADA NOTES

19415 Project Number: Drawn by: 11/27/2019 Date:

Revision:

P/BC-2017-090 THESE DIAGRAMS ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

ADJOINING SURFACE **MAXIMUM SLOPE** FIGURE 11B-406 5.8 COUNTER SLOPE OF SURFACES ADJACENT TO CURB RAMPS

Counter slope of adjoining gutters and road surfaces immediately adjacent to and within 24 inches (610 mm) of the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.11B-406.5.8

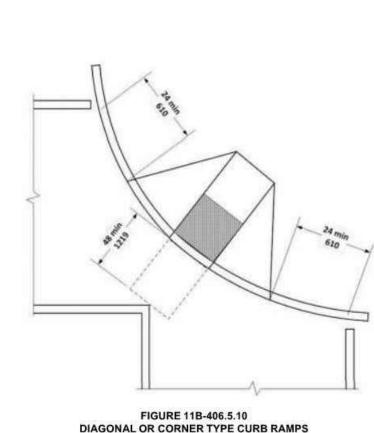
Clear space at diagonal curb ramps. The bottom of diagonal curb ramps shall have a clear space 48 inches (1219 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1219 mm) minimum clear space within the markings.11B-406.5.9

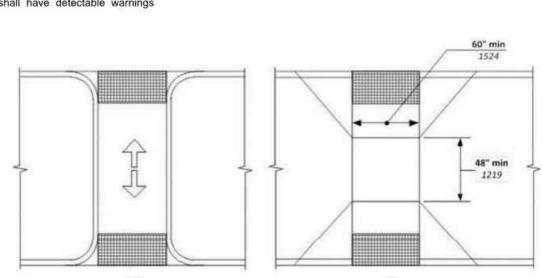
Diagonal curb ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing. FIGURE 11B-406.5.10

11B-406.6 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. The clear width of the accessible route at islands shall be 60 inches (1524 mm) wide minimum. Where curb ramps are provided, they shall comply with Section 11B-406. Landings complying with Section 11B-406.5.3 and the accessible route shall be permitted to overlap. Islands shall have detectable warnings complying with Section 11B-705.

FIGURE 11B-406.6

ISLANDS IN CROSSINGS





CURB RAMP AT ISLAND

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Page 2 of 4

CUT THROUGH AT ISLAND

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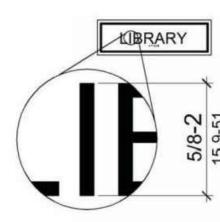


FIGURE 11B-703.2.5

HEIGHT OF RAISED CHARACTERS

11B-703 Signs

11B-703.1 General. Signs shall comply with Section 11B-703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

11B-703.1.1 Plan review and inspection. Signs as specified in Section 11B-703, or in other sections of this code, when included in the construction of new buildings or facilities, or when included, altered or replaced due to additions, alterations or renovations to existing buildings or facilities, and when a permit is required, shall comply with Sections 11B-703.1.1.1 and 11B-703.1.1.2.

11B-703.1.1.1 Plan review. Plans, specifications or other information indicating compliance with these regulations shall be submitted to the enforcing agency for review

11B-703.1.1.2 Inspection. Signs and identification devices shall be field inspected after installation and approved by the enforcing agency prior to the issuance of a final certificate of occupancy per Chapter 1, Division II, Section 111, or final approval where no certificate of occupancy is issued. The inspection shall include, but not be limited to, verification that Braille dots and cells are properly spaced and the size, proportion and type of raised characters are in compliance with these regulations.

TABLE 11B-703.3.1

BRAILLE DIMENSION	IS
MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
Dot base diameter	0.059 - 0.063
Distance between two dots in the same cell	0.100
Distance between corresponding dots in adjacent cells	0.300
Dot height	0.025 - 0.037
Distance between corresponding dots from one cell directly below	0.395 - 0.400

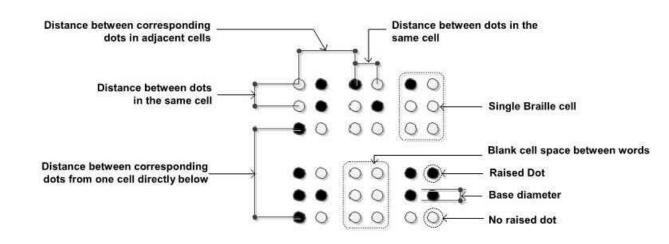


FIGURE 11B-703.3.1 BRAILLE MEASUREMENT

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reasonable accommodation to ensure equal access to its programs, services and activities.

Page 3 of 4

P/BC 2017-091 THESE DIAGRAMS ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION. AREA OF REFUGE

TABLE 11B-703.4.1

HEIGHT OF TACTILE CHARACTERS

ABOVE FINISH FLOOR OR GROUND

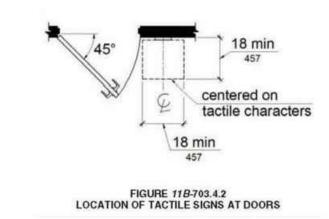
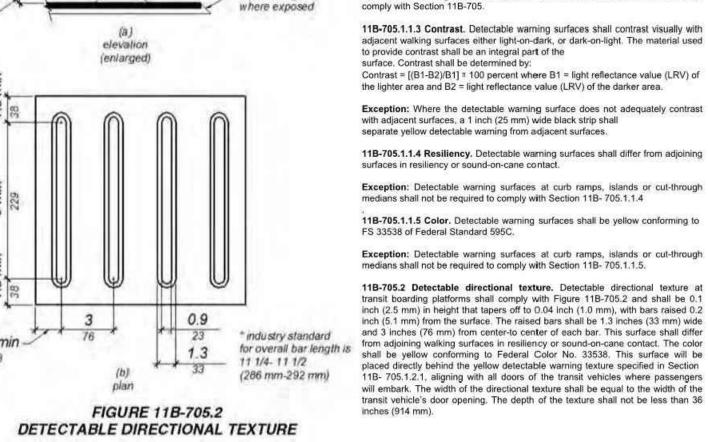


FIGURE 11B-703.3.2

POSITION OF BRAILLE

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THESE DIAGRAMS ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION. 11.4 mm-11.9 mm DETECTABLE WARNING SURFACE base diameter of 22.9 mm-23.4 mm TOP DIAMETER (enlarged) 0.45-0.47" (11.4MM-11.9MM 2.3-2.4 (58mm-61mm) (a) ENLARGED PLAN FIGURE 118-705.1 SIZE AND SPACING OF TRUNCATED DOMES Detectable warnings shall consist of a surface of truncated domes and shall

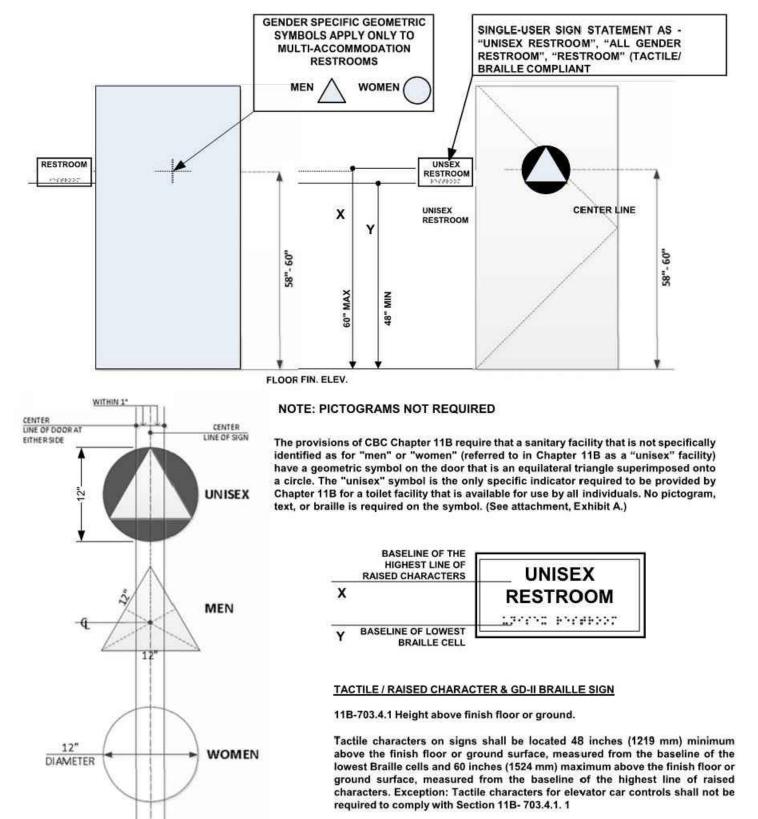


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TOILETS AND BATHING FACILITIES GEOMETRIC SYMBOLS



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Previously Issued As: P/BC 2014-091

ACCESSIBILITY DETAILS FOR SIGNS



Volume control telephones Telephones with a volume control shall be identified by a pictogram of a telephone handset with radiating sound waves on a square field such as show in Figure 11B-703.7.2.3

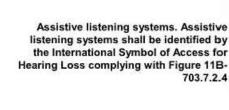


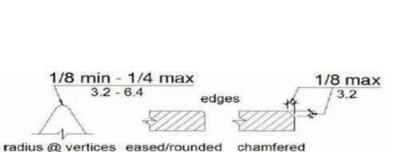
VOLUME CONTROL TELEPHONE



TTY. The International Symbol of TTY shall comply with Figure 11B-703.7.2.2

11B-703.7.2.2 International Symbol of





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FIGURE 11B-703.7.2.6.4 EDGES AND VERTICES ON GEOMETRIC SYMBOLS

AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

P/BC-2017-091 THESE DIAGRAMS ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY

IDENTIFICATION OF ALL GENDER SINGLE-USER TOILET FACILITIES Compliant with the California Building Code (CBC) Chapter 11B

EXHIBIT A - Door Symbol (required by the CBC)

This image represents the door symbol that is required by CBC 11B-216.8 to identify an all-gender/unisex single-user toilet facility. The symbol must comply with the requirements of CBC 11B-703.7.2.6.3. No pictogram, text, or braille is required on the symbol.



EXHIBIT B - Designation sign on wall

Designation signs are not required to be provided by the CBC or the 2010 ADAS. If provided, a designation sign adjacent to the door must comply with the scoping requirements of CBC 11B-216.2, and the technical requirements for raised characters (CBC 11B-703.2), braille (CBC 11B-703.3), visual characters (CBC 11B-703.5), and requirements for installation height and location (CBC 11B-703.4). No pictogram is required. The following signs illustrate acceptable examples for designation sign text:

ALL GENDER RESTROOM .11 m>3a>bb>54b>>; RESTROOM F****F***

RESTROOM 124444 24444

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architecture

hpa, inc. 18831 bardeen avenue, - ste. #100 irvine, ca 92612 tel: 949 •863 •1770 fax: 949 • 863 • 0851 email: hpa@hparchs.com



Owner:

20730 PRAIRIE ST. CHATSWORTH, CA 91311



Phase

20730 PRAIRIE ST. CHATSWORTH. CA 91311

Consultants:

RA SMITH STRUCTURAL HSA **MECHANICAL** RPM HUNTER

FIRE PROTECTION

SOILS ENGINEER

ADA NOTES

19415 Project Number: Drawn by: 11/27/2019 Date: Revision:



DBS INFORMATION BULLETIN / PUBLIC - BUILDING CODE REFERENCE NO: Various EFFECTIVE: 01-01-2017 DEPARTMENT OF BUILDING AND SAFETY DOCUMENT NO: P/BC 2017-143 REVISED: 07-01-2018 PREVIOUSLY ISSUED AS: N/A

GENERAL NOTES FOR COMMERCIAL ACCESSIBILITY

NOTE: Code references are to the 2017 edition of the Los Angeles Building Code

The State of California delegates authority to the local jurisdiction to ensure compliance with Title 24, Part 2 of the California Code of Regulations. The following general notes indicate specific areas of Title 24, Part 2 which are applicable to your project. Please be aware that the owner(s) of the building and his/her consultants are responsible for compliance with the most current Federal Regulations contained in the Americans with Disabilities Act (ADA) and Fair Housing Act (FHA). Where the ADA & FHA requirements exceed those contained in Title 24, Part 2, it is the responsibility of the owners and their consultants to ensure compliance with the most current ADA & FHA regulations, as the City is not authorized to review plans or inspect projects for ADA & FHA compliance.

The following, applicable, general notes shall be provided on the plans.

A. APPLICATION AND ADMINISTRATION

1. Public accommodations shall maintain in operable working condition those features of facilities and equipment that are required to be accessible to and useable by persons with disabilities. Isolated or temporary interruptions in service or accessibility due to maintenance or repairs shall be permitted. §11B-

B. BUILDING BLOCKS

- FLOOR OR GROUND SURFACES
- Floor and ground surfaces shall be stable, firm, and slip resistant. §11B-302.1
- 2. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be ½ inch maximum. §11B-302.2, Figure 11B-302.2 CHANGES IN LEVEL
- 3. Vertical changes in level for floor or ground surfaces may be 1/4 inch high maximum and without edge treatment. Changes in level greater than 1/4 inch and not exceeding 1/2 inch in height shall be beveled with a slope not steeper than 1:2. §11B-303, Figures 11B-303.2 & 11B-303.3
- 4. Changes in level greater than ½ inch in height shall be ramped and shall comply with the requirements of 11B-405 Ramps or 11B-406 Curb Ramps as applicable. §11B-303
- 5. Abrupt changes in level exceeding 4 inches in a vertical dimension between walks, sidewalks or other pedestrian ways and adjacent surfaces or features shall be identified by warning curbs at least 6 inches in height above the walk or sidewalk surface or by guards or handrails with a guide rail centered 2 inches minimum and 4 inches maximum above the surface of the walk or sidewalk. These requirements do not apply between a walk or sidewalk and an adjacent street or driveway. §11B-303.5

TURNING SPACE

- 6. Circular turning spaces shall be a space of 60 inches diameter minimum and may include knee and toe
- clearance complying with 11B-306 Knee and Toe Clearance. §11B-304.3.1 7. T-Shaped turning spaces shall be a T-shaped space within a 60 inch square minimum with arms and base 36 inches wide minimum. Each arm of the T shall be clear of obstructions 12 inches minimum in each
- KNEE AND TOE CLEARANCE 8. For lavatories and built-in dining and work surfaces required to be accessible, toe clearance shall be provided that is 30 inches in width and 9 inches in height above the finish floor or ground for a depth of 19

direction and the base shall be clear of obstructions 24 inches minimum. §11B-304.3.2, Figure 11B-304.3.2

inches minimum. §11B-306.2.1 As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. Page 1 of 10

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- 34. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1½ inches minimum below the bottom of the handrail-gripping surface. §11B-505.6
- 35. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 11/4 inches minimum and 2 inches maximum. §11B-505.7.1
- 36. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches minimum and 61/4 inches maximum, and a cross-section dimension of 21/4 inches maximum. §11B-505.7.2

38. Ramp handrails shall extend horizontally above the landing for 12 inches minimum beyond the top and

bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous

- 37. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with Section 11B-505.10 Handrail Extensions. §11B-505.10
- to the handrail of an adjacent ramp run. §11B-505.10.1 39. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing
- surface, or shall be continuous to the handrail of an adjacent stair flight. §11B-505.10.2 40. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance equal to one tread depth beyond the last riser nosing. The horizontal extension of a handrail shall be 12
- inches long minimum and a height equal to that of the sloping portion of the handrail as measured above the stair nosings. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight. §11B-505.10.3 STAIRWAYS

41. A stair is defined as a change in elevation, consisting of one or more risers. §11B-202

42. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches high minimum and 7 inches high maximum. Treads shall be 11 inches deep minimum. Curved stairways with winder treads are permitted at stairs which are not part of a required means of egress. (See exception) §11B-504.2

43. Open risers are not permitted. §11B-504.3 (See exceptions)

- 44. Interior stairs shall have the upper approach and lower tread marked by a stripe providing clear visual contrast. Exterior stairs shall have the upper approach and all treads marked by a stripe providing clear visual contrast. The stripe shall be a minimum of 2 inches wide to a maximum of 4 inches wide placed parallel to, and not more than 1 inch from, the nose of the step or upper approach. The stripe shall extend the full width of the step or upper approach and shall be of material that is at least as slip resistant as the other treads of the stair. A painted stripe shall be acceptable. Grooves shall not be used to satisfy this requirement. §11B-504.4.1
- 45. The radius of curvature at the leading edge of the tread shall be ½ inch maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 11/4 inches maximum over the tread below. §11B-504.5 (See exception for existing
- 46. Stairs shall have handrails complying with Section 11B-505 Handrails. §11B-504.6
- 47. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water. §11B-504.7
- 48. Floor identification signs required by Chapter 10, Section 1022.9 complying with Sections 11B-703.1 Signs General, 11B-703.2 Raised Characters, 11B-703.3 Braille and 11B-703.5 Visual Characters shall be located at the landing of each floor level, placed adjacent to the door on the latch side, in all enclosed stairways in buildings two or more stories in height to identify the floor level. At the exit discharge level, the sign shall include a raised five pointed star located to the left of the identifying floor level. The outside diameter of the star shall be the same as the height of the raised characters. §11B-504.8

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LADDBS

Figure 11B-307.4

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- 9. Toe clearance shall extend 19 inches maximum under lavatories for toilet and bathing facilities and 25 inches maximum under other elements. §11B-306.2.2
- 10. At lavatories in toilet and bathing facilities, knee clearance shall be provided that is 30 inches in width for a depth of 11 inches at 9 inches above the finish floor or ground and for a depth of 8 inches at 27 inches above the finish floor or ground increasing to 29 inches high minimum above the finish floor or ground at the front edge of a counter with a built-in lavatory or at the front edge of a wall-mounted lavatory fixture. §11B-306.3.3, Figure 11B-306.3(c)
- 11. At dining and work surfaces required to be accessible, knee clearance shall be provided that is 30 inches in width at 27 inches above the finish floor or ground for a depth of at least 19 inches. §11B-306.3 PROTRUDING OBJECTS
- 12. Except for handrails, objects with leading edges more than 27 inches and less than 80 inches above the finish floor or ground shall protrude no more than 4 inches horizontally into the circulation path. Handrails
- may protrude 41/2 inches maximum. §11B-307.2, Figure 11B-307.2 13. Freestanding objects mounted on posts or pylons shall overhang circulation paths no more than 12 inches

when located from 27 to 80 inches above the finish floor or ground, §11B-307.3, Figure 11B-307.3(a)

- 14. Protruding objects shall not reduce the clear width required for accessible routes. §11B-307.5
- 15. Lowest edge of a sign or other obstruction, when mounted between posts or pylons separated with a clear distance greater than 12 inches, shall be less than 27 inches or more than 80 inches above the finish floor or ground. §11B-307.3, Figure 11B-307.3(b)
- 16. Vertical clearance shall be at least 80 inches high on circulation paths except at door closers and door
- stops, which may be 78 inches minimum above the finish floor or ground. §11B-307.4 17. Guardrails or other barriers with a leading edge located 27 inches maximum above the finish floor or ground shall be provided where the vertical clearance on circulation paths is less than 80 inches high. §11B-307.4,
- 18. Where a guy support is used within either the width of a circulation path or 24 inches maximum outside of a circulation path, a vertical guy brace, sidewalk guy or similar device shall be used to prevent a hazard or an overhead obstruction. §11B-307.4.1, Figure 11B-307.4.1 REACH RANGES
- Electrical controls and switches intended to be used by the occupant of a room or area to control lighting and receptacle outlets, appliances or cooling, heating and ventilating equipment shall be located within allowable reach ranges. Low reach shall be measured to the bottom of the outlet box and high reach shall
- be measured to the top of the outlet box. §11B-308.1.1 20. Electrical receptacle outlets on branch circuits of 30 amperes or less and communication system receptacles shall be located within allowable reach ranges. Low reach shall be measured to the bottom of
- the outlet box and high reach shall be measured to the top of the outlet box. §11B-308.1.2. 21. High forward reach that is unobstructed shall be 48 inches maximum and the low forward reach shall be 15
- inches minimum above the finish floor or ground. §11B-308.2.1, Figure 11B-308.2.1 22. High forward reach shall be 48 inches maximum where the reach depth is 20 inches or less and 44 inches maximum where the reach depth exceeds 20 inches. High forward reach shall not exceed 25 inches in depth. §11B-308.2.2, Figure 11B-308.2.2
- 23. High side reach shall be 48 inches maximum and the low side reach shall be 15 inches minimum above the finish floor where the side reach is unobstructed or the depth of any obstruction does not exceed 10 inches.
- §11B-308.3.1, Figure 11B-308.3.1 24. High side reach shall be 46 inches maximum above the finish floor or ground where the high side reach is over an obstruction more than 10 inches but not more than 24 inches in depth. §11B-308.3.2, Figure 11B-
- 25. Obstructions for high side reach shall not exceed 34 inches in height and 24 inches in depth. §11B-308.3.2, Figure 11B-308.3.2

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CURB RAMPS, BLENDED TRANSITIONS AND ISLANDS

- Perpendicular ramp runs shall have a running slope not steeper than 1:12 (8.33%). §11B-406.2.1 50. For perpendicular ramps, where provided, curb ramp flares shall not be steeper than 1:10. §11B-406.2,
- Figure 11B-406.2.2 51. The running slope of the curb ramp segments shall be in-line with the direction of sidewalk travel. Ramp
- runs shall have a running slope not steeper than 1:12 (8.33%). §11B-406.3.1, Figure 11B-406.3.2
- 52. A turning space 48 inches minimum by 48 inches minimum shall be provided at the bottom of the curb ramp. The slope of the turning space in all directions shall be 1:48 maximum (2.083%). §11B-406.3.2
- 53. Blended transition ramps hall have a running slope not steeper than 1:20 (5%), §11B-406.4.1 54. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly
- contained within the markings, excluding any flared sides. §11B-406.5.1 55. The clear width of curb ramp runs (excluding any flared sides), blended transitions, and turning spaces shall be 48 inches minimum. §11B-406.5.2 56. Landings shall be provided at the tops of curb ramps and blended transitions (parallel curb ramps shall not
- be required to comply). The landing clear length shall be 48 inches minimum. The landing clear width shall be at least as wide as the curb ramp, excluding any flared sides, or the blended transition leading to the landing. The slope of the landing in all directions shall be 1:48 (2.083%) maximum. §11B-406.5.3
- 57. Grade breaks at the top and bottom of curb ramp runs shall be perpendicular to the direction of the ramp run. Grade breaks shall not be permitted on the surface of ramp runs and turning spaces. Surface slopes that meet at grade breaks shall be flush. §11B-406.5.6
- 58. The cross slope of curb ramps and blended transitions shall be 1:48 (2.083%) maximum. §11B-406.5.7
- 59. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1:20 (5%). The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level. §11B-406.5.8
- 60. The bottom of diagonal curb ramps shall have a clear space 48 inches minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches minimum clear space within the markings. §11B-406.5.9
- 61. Curb ramps and blended transitions shall have detectable warnings complying with 11B-705 Detectable Warnings. §11B-406.5.12
- 62. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. The clear width of the accessible route at islands shall be 60 inches wide minimum. Where curb ramps are provided, they shall comply with 11B-406 Curb Ramps, Blended Transitions and Islands. Landings complying with 11B-406.5.3 Landings and the accessible route shall be permitted to overlap. Islands shall have detectable warnings complying with 11B-705 Detectable Warnings and Detectable Directional Texture. §11B-406.6, Figure 11B-406.6

D. GENERAL SITE AND BUILDING ELEMENTS

charging facility.

- 1. Where parking spaces are provided, accessible parking spaces shall be provided in number and kind required per Section 11B-208 Parking Spaces. §11B-208.1
- Where passenger loading zones, drop-off zones, and/or bus stops are provided, accessible passenger loading zones, drop-off zones, and/or bus stops are required.
- 3. Where Electric vehicle charging stations (EVCS) are provided, they shall comply with Section 11B-812 as required by
- 4. EVCS complying with Section 11B-812 that serve a particular building or facility shall be located on an accessible route to an entrance complying with Section 11B-206.4. Where EVCS do not serve a particular building or facility, EVCS

complying with Section 11B-812 shall be located on an accessible route to an accessible pedestrian entrance of the EV

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705.1.1.3.1

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- 26. Obstructed high side reach for the top of washing machines and clothes dryers shall be permitted to be 36 inches maximum above the finish floor. §11B-308.3.2
- 27. Obstructed high side reach for the operable parts of fuel dispensers shall be permitted to be 54 inches maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs. §11B-308.3.2 OPERABLE PARTS
- 28. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. Force required to activate operable parts shall be 5 pounds maximum. §11B-309.4
- C. ACCESSIBLE ROUTES
- Detectable warning surfaces shall be yellow and approximate FS 33538 of Federal Standard 595C. §11B-
- 2. Detectable warning surfaces shall provide a 70 percent minimum visual contrast with adjacent walking surfaces. Contrast in percent shall be determined by:
 - Contrast percent = [(B1-B2)/B1] x 100 where
 - B1 = light reflectance value (LRV) of the lighter area and

DETECTABLE WARNINGS AND DETECTABLE DIRECTIONAL TEXTURE

B2 = light reflectance value (LRV) of the darker area

§11B-705.1.1.3.2 (See exception)

- DOORS, DOORWAYS, AND GATES Doors, doorways, and gates providing user passage shall be provided in accordance with 11B-206.5 Doors,
- Doorways, and Gates. §11B-206.5 4. Doors, doorways and gates that are part of an accessible route shall comply with 11B-404 Doors, Doorways, and Gates. §11B-404.1
- 5. Door openings shall provide a clear width of 32 inches minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches deep shall provide a clear opening of 36 inches minimum. There shall be no projections into the required clear opening width lower than 34 inches above the finish floor or ground. Projections into the clear opening width between 34 inches and 80 inches above the finish floor or ground shall not exceed 4 inches. §11B-404.2.3
- Swinging doors and gates shall have maneuvering clearances complying with Table 11B-404.2.4.1. §11B-
- 7. Doorways less than 36 inches wide without doors or gates, sliding doors, or folding doors shall have
- maneuvering clearances complying with Table 11B-404.2.4.2. §11B-404.2.4.2 8. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches of the latch side an interior doorway, or within 24 inches of the latch side of an exterior doorway, projects more than 8 inches beyond the face of the door, measured perpendicular to the face of the door or gate. §11B-
- 9. Thresholds, if provided at doorways, shall be ½ inch high maximum. Raised thresholds and changes in level at doorways shall comply with 11B-302 Floor or Ground Surfaces and 11B-303 Changes in Level. §11B-
- 10. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 11B-309.4 Operation, Operable parts of such hardware shall be 34 inches minimum and 44 inches maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides. §11B-404.2.7
- 11. The force for pushing or pulling open a door or gate other than fire doors shall be as follows: §11B-404.2.9 a. Interior hinged doors and gates: 5 pounds maximum.

 Sliding or folding doors: 5 pounds maximum. As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable commodation to ensure equal access to its programs, services and activities

LAMEDBS

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E. PLUMBING FIXTURES AND FACILITIES

DRINKING FOUNTAINS

- 1. Drinking fountains shall comply with Sections 11B-307 Protruding Objects and 11B-602 General Requirements. §11B-602.1 2. Units shall have a clear floor or ground space complying with Section 11B-305 Clear Floor or Ground Space positioned for a forward approach and centered on the unit. Knee and toe clearance complying with Section
- 11B-306 Knee and Toe Clearance shall be provided. §11B-602.2 3. Spout outlets shall be 36 inches maximum above the finish floor or ground. §11B-602.4
- 4. The spout shall be located 15 inches minimum from the vertical support and 5 inches maximum from the front edge of the unit, including bumpers. §11B-602.5
- 5. The spout shall provide a flow of water 4 inches high minimum and shall be located 5 inches maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches from the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches and 5 inches maximum
- from the front of the unit, the angle of the water stream shall be 15 degrees maximum. §11B-602.6 6. Spout outlets of drinking fountains for standing persons shall be 38 inches minimum and 43 inches maximum above the finish floor or ground. §11B-602.7
- 7. Wall and post-mounted cantilevered drinking fountains shall be 18 inches minimum and 19 inches maximum in depth. §11B-602.8
- 8. All drinking fountains shall either be located completely within alcoves, positioned completely between wing walls, or otherwise positioned so as not to encroach into pedestrian ways. The protected area within such a drinking fountain is located shall be 32 inches wide minimum and 18 inches deep minimum, and shall comply with Section 11B-305.7 Maneuvering Clearance. When used, wing walls or barriers shall protect horizontally at least as far as the drinking fountain and to within 6 inches vertically from the floor or ground surface. §11B-602.9

TOILET AND BATHING ROOM CLEARANCES

- Doors to unisex toilet rooms and unisex bathing rooms shall have privacy latches. §11B-213.2.1
- 10. Mirrors located above the lavatories or countertops shall be installed within the bottom edge of the reflecting surface 40 inches maximum above the finish floor or ground. Mirrors not located above the lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches maximum above the finish floor or ground. §11B-603.3
- 11. Coat hooks shall be located within one of the reach ranges specified in Section 11B-308. Shelves shall be located 40 inches minimum and 48 inches maximum above the finish floor. Medicine cabinets shall be located with a usable shelf no higher than 44 inches maximum above the finish floor. §11B-603.4
- 12. Where towel or sanitary napkin dispensers, waste receptacles, or other accessories are provided in toilet facilities, at least one of each type shall be located on an accessible route. All operable parts, including coin slots, shall be 40 inches maximum above the finish floor. Baby changing stations are not required to comply with Section 11B-603.5 (See exception) §11B-603.5

WATER CLOSETS AND TOILET COMPARTMENTS

- Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Section 11B-309.4 Operation except they shall be located 44 inches maximum above the floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with Section 11B-604.8.2 Ambulatory Accessible Compartments. §11B-604.6
- 14. Toilet paper dispensers shall comply with Section 11B-309.4 Operation and shall be 7 inches minimum and 9 inches maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be below the grab bar, 19 inches minimum above the finish floor and shall not be located behind the grab bars. Dispensers shall not be of a type that control delivery or that does not allow continuous paper flow. §11B-604.7

15. Sanitary napkin disposal units, if provided, shall comply with Section 11B-309.4 and shall be wall mounted and located on the sidewall between the rear wall of the toilet and the toilet paper dispenser, adjacent to the As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable commodation to ensure equal access to its programs, services and activities

d. Exterior hinged doors: 5 pounds maximum.

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- c. Required fire doors: the minimum opening force allowable by the appropriate administrative authority, not to exceed 15 pounds.
- 12. Swinging door and gate surfaces within 10 inches of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch of the same plane as the other and be free of sharp or abrasive edges. Cavities created by added kick plates shall be capped. §11B-404.2.10
- 13. Ramp runs shall have a running slope not steeper than 1:12 (8.33%). §11B-405.2
- 14. Cross slope of ramp runs shall not be steeper than 1:48 (2.083%). §11B-405.3
- 15. Floor or ground surfaces of ramp runs shall comply with 11B-302 Floor or Ground Surfaces. Changes in level other than the running slope and cross slope are not permitted on ramp runs. §11B-405.4
- The clear width of a ramp run shall be 48 inches minimum. §11B-405.5
- 17. The rise for any ramp run shall be 30 inches maximum. §11B-405.6 18. Ramps shall have landings at the top and the bottom of each ramp run. §11B-405.7
- 19. Landings shall comply with 11B-302 Floor or Ground Surfaces. Changes in level are not permitted. §11B-
- 20. The landing clear width shall be at least as wide as the widest ramp run leading to the landing. §11B-
- Top landings shall be 60 inches wide minimum. §11B-405.7.2.1
- 22. The landing clear length shall be 60 inches long minimum. §11B-405.7.3
- 23. Bottom landings shall extend 72 inches minimum in the direction of ramp run. §11B-405.7.3.1 24. Ramps that change direction between runs at landings shall have a clear landing 60 inches minimum by 72
- inches minimum in the direction of downward travel from the upper ramp run. §11B-405.7.4 25. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 11B-404.2.4 and 11B-404.3.2 shall be permitted to overlap the required landing area. Doors, when fully open, shall not

reduce the required ramp landing width by more than 3 inches. Doors, in any position, shall not reduce the

- minimum dimension of the ramp landing to less than 42 inches. §11B-405.7.5
- 26. Ramp runs shall have compliant handrails per 11B-505 Handrails. §11B-405.8
- 27. Edge protection complying with 11B-405.9.2 Curb or Barrier shall be provided on each side of ramp runs and at each side of ramp landings. §11B-405.9 (See exceptions) 28. A curb, 2 inches high minimum, or barrier shall be provided that prevents the passage of a 4 inch diameter sphere, where any portion of the sphere is within 4 inches of the finish floor or ground surface. To prevent wheel entrapment, the curb or barrier shall provide a continuous and uninterrupted barrier along the length
- 29. Landings subject to wet conditions shall be designed to prevent the accumulation of water. §11B-405.10
- HANDRAILS 30. Handrails shall be provided on both sides of stairs and ramps. §11B-505.2
- 31. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs. §11B-505.3
- 32. Top of gripping surfaces of handrails shall be 34 inches minimum and 38 inches maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces. §11B-505.4
- 33. Clearance between handrail gripping surfaces and adjacent surfaces shall be 1½ inches minimum. Handrails may be located in a recess if the recess is 3 inches maximum deep and 18 inches minimum clear above the top of the handrail. §11B-505.5

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of the ramp. §11B-405.9.2

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toilet paper dispenser. The disposal unit shall be located below the grab bar with the opening of the disposal

- unit 19 inches minimum (483 mm) above the finish floor. §11B-604.7.2 16. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches maximum above the finish floor or ground. Urinals shall be 13½ inches deep minimum measured from the outer face of the urinal rim to the back of the fixture. §11B-605.2
- 17. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Section 11B-309 Operable Parts except that the flush control shall be mounted at a maximum height of 44 inches above the finish floor. §11B-605.4 18. For lavatories and sinks, a clear floor space complying with Section 11B-305 Clear Floor or Ground
- Knee and Toe Clearance shall be provided. §11B-606.2 19. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches maximum above the finish floor or ground. §11B-606.3

Surfaces, positioned for a forward approach, and knee and toe clearance complying with Section 11B-306

- SIGNS RELATED TO TOILETS AND BATHING FACILITIES 20. Entrances leading to toilet rooms and bathing rooms complying with 11B-603 Toilet and Bathing Rooms shall be identified by a geometric symbol complying with 11B-703.7.2.6 Toilet and Bathing Room Geometric Symbols. Where existing toilet rooms or bathing rooms do not comply with 11B-603 Toilet and Bathing Rooms, directional signs indicating the location of the nearest compliant toilet room or bathing room within the facility shall be provided. Signs shall comply with 11B-703.5 Visual Characters and shall include the International Symbol of Accessibility complying with 11B-703.7.2.1 ISA. Where existing toilet rooms or bathing rooms do not comply with 11B-603 Toilet and Bathing Rooms, the toilet rooms or bathing rooms complying with 11B-603 Toilet and Bathing Rooms shall be identified by the International Symbol of Accessibility complying with 11B-703.7.2.1 ISA. Where clustered single user toilet rooms or bathing facilities are permitted to use exceptions to 11B-213.2 Toilet and Bathing Rooms, toilet rooms or bathing facilities complying with 11B-603 Toilet and Bathing Rooms shall be identified by the International Symbol of Accessibility complying with 11B-703.7.2.1 ISA unless all toilet rooms and bathing facilities comply with 11B-603 Toilet and Bathing Rooms. Existing buildings that have been remodeled to provide specific toilet rooms or bathing rooms for public use that comply with these building standards shall have the location of and the directions to these rooms posted in or near the building lobby or entrance on a sign complying with 11B-
- 703.5 Visual Characters, including the International Symbol of Accessibility complying with 11B-703.7.2.1 ISA. §11B-216.8
- Pictograms shall comply with the following:
- a. Pictograms shall have a field height of 6 inches minimum. Characters and Braille shall not be located in the pictogram field. §11B-703.6.1
- b. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field. §11B-703.6.2 c. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 11B-703.2 Raised Characters, 11B-703.3 Braille and 11B-703.4 Installation Height and
- Location. §11B-703.6.3 d. The installation height and location of Pictogram signs shall be per §11B-703.4.1.
- Symbols shall comply with the following:
- a. Doorways leading to toilet rooms and bathing rooms shall be identified by a geometric symbol complying with 11B-703.7.2.6 Toilet and Bathing Facilities Geometric Symbols. The symbol shall be mounted at 58 inches minimum and 60 inches maximum above the finish floor or ground surface measured from the centerline of the symbol. Where a door is provided, the symbol shall be mounted within 1 inch of the vertical centerline of the door. §11B-703.7.2.6 (See exception)

b. A triangle symbol shall be located at entrances to men's toilet and bathing facilities and it shall be identified by an equilateral triangle, 1/2 inch thick with edges 12 inches long and a vertex pointing upward. The triangle symbol shall contrast with the door, either light on a dark background or dark on a light background. §11B-703.7.2.6.1

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Owner:

20730 PRAIRIE ST. CHATSWORTH, CA 91311

Project: DAX3

Phase

CHATSWORTH. CA 91311

20730 PRAIRIE ST.

Consultants:

RA SMITI STRUCTURAL HSA MECHANICAL RPM RPM RPM ELECTRICAL **HUNTER**

FIRE PROTECTION

SOILS ENGINEER

ADA NOTES

11/27/2019

19415 Project Number: Drawn by:

Date:

Revision:



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- c. A circle symbol shall be located at entrances to women's toilet and bathing facilities and it shall be identified by a circle, ¼ inch thick and 12 inches in diameter. The circle symbol shall contrast with the door, either light on a dark background or dark on a light background. §11B-703.7.2.6.2
- d. A combined circle and triangle symbol shall be located at entrances to unisex toilet and bathing facilities and it shall be shall be identified by a circle, ¼ inch thick and 12 inches in diameter with a ¼ inch thick triangle with a vertex pointing upward superimposed on the circle and within the 12-inch diameter. The triangle symbol shall contrast with the circle symbol, either light on a dark background or dark on a light background. The circle symbol shall contrast with the door, either light on a dark background or dark on a light background. §11B-703.7.2.6.3

WASHING MACHINE AND CLOTHES DRYERS

- 23. Washing machines and clothes dryer's operable parts must comply with Section 11B-309 Operable Parts. §11B-611.3
- 24. Top loading machines shall have the door to the laundry compartment located 36 inches maximum above the finish floor. Front loading machines shall have the bottom of the opening to the laundry compartment located 15 inches minim and 36 inches maximum above the finish floor. §11B-611.4

F. COMMUNICATION ELEMENTS AND FEATURES

FIRE ALARM SYSTEMS

- Where fire alarm systems and carbon monoxide alarm systems provide audible alarm coverage, alarms shall comply with 11B-215 Fire Alarm Systems. §11B-215.1 (See exception)
- 2. Alarms in public use areas and common use areas shall comply with 702 Chapter 9, Section 907.5.2.3.1.
- §11B-215.2

 3. Where employee work areas have audible alarm coverage, the wiring system shall be designed so that
- visible alarms complying with 702 Chapter 9, Section 907.5.2.3.2 can be integrated into the alarm system. §11B-215.3

 4. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2003 addition) (incorporated by reference and "Beforenced Standards" in Chapter 1) except that
- (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition), and Chapter 9, Sections 907.5.2.1 and 907.5.2.3. §11B-702.1

ASSISTIVE LISTENING SYSTEMS

- Assistive listening systems shall be provided in assembly areas, including conference and meeting rooms, used for the purpose of entertainment, educational or civic gatherings, or similar purposes. §202, §11B-219.2
- Note: Assembly areas include, but are not limited to, classrooms, lecture halls, courtrooms, public meeting rooms, public hearing rooms, legislative chambers, motion picture houses, auditoria, theaters, playhouses, dinner theaters, concert halls, centers for the performing arts, amphitheaters, arenas, stadiums, grandstands, or convention centers. §202, §11B-219.2
- Assistive listening system shall provide an amplification system utilizing transmitters, receivers, and coupling
 devices to bypass the acoustical space between a sound source and a listener by means of induction loop,
 radio frequency, infrared, or direct-wired equipment. §202
- Where a building contains more than one assembly area under one management, the total number of required receivers may be calculated using the total number of seats in the assembly areas provided that all receivers are usable with all systems. §11B-219.3 (See exception)
- Twenty-five percent minimum of receivers provided for assistive listening systems, but no fewer than two, shall be hearing-aid compatible except when all seats in an assembly area are served by means of an induction loop. §11B-219.3

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- 9. When assistive-listening systems are limited to specific areas or seats, such areas or seats shall be within a 50-foot viewing distance of the stage or playing area sale shall have a complete view of the stage or playing area sales.
- 10. Permanently installed assistive-listening systems are required in areas if (1) they have fixed seating and (2a) they accommodate at least 50 persons or (2b) they have audio-amplification systems, except those used exclusively for paging and/or background music. §11B-219.2, §11B-219.5
- 11. Portable assistive-listening systems may serve more than one conference or meeting rooms if an adequate number of electrical outlets or other supplementary wiring is provided and permanently installed systems are not required. §11B-219.5
- 12. Receivers required for use with an assistive listening system shall include a 1/8 inch standard mono jack.
- Receivers required to be hearing aid compatible shall interface with telecoils in hearing aids through the provision of neck loops. §11B-706.3
- Assistive listening systems shall be capable of providing a sound pressure level from 110 118 dB with a dynamic range on the volume control of 50 dB. §11B-706.4
- Signal-to-noise ratio for internally generated noise in assistive listening systems shall be 18 dB minimum. §11B-706.5
- 16. Peak clipping shall not exceed 18 dB of clipping relative to the peaks of speech. §11B-706.6

TWO-WAY COMMUNICATION SYSTEMS

- 17. Two-way communication systems that are provided to gain admittance to a building or facility or to restricted areas within a building or facility shall provide both audible and visual signals. Handset cords, if provided, shall be 29 inches long minimum. §11B-230.1, §11B-708
- 18. Common use or public use system interface of communications systems between a residential dwelling unit and a site, building, or floor entrance shall include the capability of supporting voice and TTY communication with the residential dwelling unit interface. §11B-708.4.1
- 19. Residential dwelling unit system interface of communications systems between a residential dwelling unit and a site, building, or floor entrance shall include a telephone jack capable of supporting voice and TTY communication with the common use or public use system interface. §11B-708.4.2

TELEPHONES

- 20. Where coin-operated public pay telephones, coin less public pay telephones, public closed-circuit telephones, public courtesy phones, or other types of public telephones are provided, public telephones shall be provided in accordance with 11B-217 Telephones for each type of public telephone provided. For purposes of this section, a bank of telephones shall be considered to be two or more adjacent telephones. §11B-217.1
- 21. Except drive-up only public telephones, where public telephones are provided, wheelchair accessible
- telephones complying with 11B-704.2 shall be provided in accordance with Table 11B-217.2. §11B-217.2
- 23. TTYs complying with 11B-704.4 shall be provided in accordance with 11B-217.4.

22. All public telephones shall have volume controls complying with 11B-704.3. §11B-217.3

24. Where a bank of telephones in the interior of a building consists of three or more public pay telephones, at least one public pay telephone at the bank shall be provided with a shelf and an electrical outlet in accordance with 11B-704.5. §11B-217.5 (See exception)

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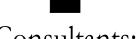
Owner:

20730 PRAIRIE ST. CHATSWORTH, CA 91311

Project:

Phase

20730 PRAIRIE ST. CHATSWORTH. CA 91311



Consultants:

STRUCTURAL HSA
MECHANICAL RPM
PLUMBING RPM
ELECTRICAL RPM
LANDSCAPE HUNTER
FIRE PROTECTION SOILS ENGINEER -

itle: ADA FORMS

Project Number: 19415
Drawn by: DH

Date: 11/27/2019

Revision:

TI-A0.3.7



STORM WATER POLLUTION CONTROL

(2017 Los Angeles Green Building Code)

FORM GRN 1

Storm Water Pollution Control Requirements for Construction Activities

The following notes shall be incorporated in the approved set of construction/grading plans and represents the minimum standards of good housekeeping which must be implemented on all construction

Minimum Water Quality Protection Requirements for All Construction Projects

Construction means constructing, clearing, grading or excavation that result in soil disturbance. Construction includes structure teardown (demolition). It does not include routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of facility; emergency construction activities required to immediately protect public health and safety; interior remodeling with no outside exposure of construction material or construction waste to storm water; mechanical permit work; or sign permit work. (Order No. 01-182, NPDES Permit No. CAS004001 – Part 5: Definitions)

- 1. Eroded sediments and pollutants shall be retained on site and shall not be transported from the site via sheet flow, swales, area drains, natural drainage or wind.
- 2. Stockpiles of earth and other construction-related materials shall be covered and/or protected from being transported from the site by wind or water.
- 3. Fuels, oils, solvents and other toxic materials must be stored in accordance with their listing and shall not contaminate the soil nor the surface waters. All approved toxic storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of properly and shall not be washed into the drainage system.
- 4. Non-storm water runoff from equipment and vehicle washing and any other activity shall be contained on the project site.
- 5. Excess or waste concrete may not be washed into the public way or any drainage system. Provisions shall be made to retain concrete waste on-site until it can be appropriately disposed of or recycled. 6. Trash and construction -related solid wastes must be deposited into a covered receptacle to prevent
- contamination of storm water and dispersal by wind. 7. Sediments and other materials shall not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the street/public ways. Accidental depositions must be swept up immediately and may not be washed down
- by rain or by any other means. 8. Retention basins of sufficient size shall be provided to retain storm water runoff on-site and shall be
- properly located to collect all tributary site runoff. 9. Where retention of storm water runoff on-site is not feasible due to site constraints, runoff may be conveyed to the street and the storm drain system provided that an approved filtering system is installed and maintained on-site during the construction duration.

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NON-RESIDENTIAL BUILDINGS

1. State on plans that the outdoor lighting systems shall be designed and installed to 19. Architectural paints and coatings, adhesives, caulks and sealants shall comply

(Rev. 01/17/17) www.ladbs.org



2017 Los Angeles Green Building Code GREEN BUILDING CODE PLAN CHECK NOTES

with the Volatile Organic Compound (VOC) limits listed in Tables 5.504.4.1-

20. The VOC Content Verification Checklist, Form GRN 2, shall be completed and

21. All new carpet installed in the building interior meets the testing and product

California Department of Public Health's Specification 01350

Carpet and Rug Institute's Green Label Plus Program

d. Scientific Certifications Systems Indoor Advantage™ Gold

22. All new carpet cushion installed in the building interior shall meet the

23. New hardwood plywood, particle board, and medium density fiberboard

requirements of one of the following:

. NSF/ANSI 140 at the Gold level

meet the formaldehyde limits.

more of the following:

intake or operable windows.

verified prior to final inspection approval. The manufacturer's specifications

showing VOC content for all applicable products shall be readily available at the

job site and be provided to the field inspector for verification. (5.504.4.3.2)

requirements of the Carpet and Rug Institute Green Label program. (5.504.4.4.1)

composite wood products used in the interior or exterior of the building shall

completed prior to final inspection approval. The manufacturer's specification

available at the job site and be provided to the field inspector for verification.

a. VOC emission limits defined in the CHPS High Performance Products

c. Certification under the Resilient Floor Covering Institute (RFCI) FloorScore

d. Meet the California Department of Public Health's Specification 01350

Efficiency Reporting Value (MERV) of 8 or higher. However, buildings within

Ventilated spaces in buildings shall meet the minimum requirements of Section

entilation controls installed in accordance with the requirements of the current

edition of the California Energy Code, CCR, Title 24, Part 6, Section 121(c).

30. The HVAC, refrigeration, and fire suppression equipment shall not contain CFC

commercial refrigeration system with a global warming potential (GWP) of 150

31. Retail food stores of 8,000 sq. ft. or more of conditioned area that have a

or greater shall have leak reduction measures in accordance with LAGBC

121 of the California Energy Code and Chapter 4 of the California Code of

1,000 feet of a freeway shall provide regularly occupied areas of the building

with a MERV 13 filter. Filters shall be installed prior to occupancy and

recommendations for maintenance with filters of the same value shall be

26. Mechanically ventilated buildings shall have air filter with a Minimum

b. Certified under UL GREENGUARD Gold

included in the operation and maintenance manual.

showing formaldehyde content for all applicable wood products shall be readily

24. The Formaldehyde Emissions Verification Checklist, Form GRN 3, shall be

- Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-11 Allowable BUG ratings not exceeding those shown in on Table 5.106.8.
- 2. Separate submeters shall be installed in any building or new space within a building that is projected to consume more than 1,000 gal/day. (5.303.1.2)
- New plumbing fixtures and fittings shall not exceed the maximum allowable flow rate specified in Section 5.303.3.
- 4. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80psi, or the shower shall be designed to only allow one showerhead to be in operation at a time.
- 5. For projects that include landscape work, the Landscape Certification, Form GRN 12, shall be completed prior to final inspection approval. (State Assembly Bill No. 1881)
- 6. Installed automatic irrigation system controllers are weather- or soil-based (WMELO, § 492.7) 7. Weather-resistant exterior wall and foundation envelope shall be detailed in
- conformance with Los Angeles Building Code Section 1403.2 and California Energy Code Section 150. 8. Automatic landscape irrigators shall be installed such that it doesn't spray on the
- (5.407.2.1) 25. 80% of the total area receiving new resilient flooring shall comply with one or 9. New exterior entries and openings subject to foot traffic shall be protected

against water intrusion using features such as overhangs, awnings and/or recesses

- for a combined depth over the entry of at least 4 feet. 10. Nonabsorbent interior floor and wall finishes shall be used within at least two
- feet around and perpendicular to new exterior entries and/or opening subject to
- Exterior entries shall have flashing integrated with the drainage plane. (5.407.2.2.2)
- 12. Only a City of Los Angeles certified hauler will be used for hauling of
- 13. 100% of excavated soil and vegetation resulting from land clearing shall be (5.408.3) 27. Designated outdoor smoking area shall be at least 25 feet from an outdoor air reused or recycled.
- 14. A final report for the testing and adjusting of all new systems shall be completed and provided to the field inspector prior to final approval. This report shall be signed by the individual responsible for performing these services. (5.410.4.4)
- 15. For all new equipment, an Operation & Systems Manual shall be provided to the owner and the field inspector at the time of final inspection. (5.410.4.5) 29. Buildings that use Demand Control Ventilation shall have CO₂ sensors and
- 16. All new gas fireplaces must be direct-vent, sealed combustion type. Wood burning fireplaces are prohibited per AQMD Rule 445.
- 17. If the new HVAC system is used during construction, use return air filters with a MERV of 8. Replace all filters immediately prior to occupancy. (5.504.1.3)

18. All new ducts and other new related air distribution components openings shall

be covered with tape, plastic, or sheetmetal until the final startup of the heating,

Section 5.508.2. Separate mechanical plan check is required. cooling and ventilating equipment.

provide reasonable accommodation to ensure equal access to its programs, services and activities. (Rev. 07/02/18) Page 1 of 1 www.ladbs.org

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(5.503.1, AQMD Rule 445)

2017 Los Angeles Green Building Code

MANDATORY REQUIREMENTS CHECKLIST ADDITIONS AND ALTERATIONS TO NON-RESIDENTIAL BUILDINGS

Permi	it#190	(COMPLETE AND INCORPORATE THIS FORM Date Date Date Date Date Date Date Date	M INTO THE P e:11-2	-
ITEM #	CODE SECTION	REQUIREMENT	REFERENCE SHEET (Sheet # or N/A	COMMENTS (e.g. note #, detail #) or reason for N/A
		PLANNING AND DESIGN		
1	5.106.1	Storm water drainage and retention during construction	A0.38	GRN 1
2	5.106.4.1.1	Short-term bicycle parking (≥ 10 vehicular parking spaces)	N/A	N/A
3	5.106.4.1.2	Long-term bicycle parking (≥ 10 vehicular parking spaces)	N/A	N/A
4	5.106.5.2	Designated parking (≥ 10 vehicular parking spaces)	N/A	N/A
5	5.106.10	Grading and Paving	N/A	CIVIL SEPERATE PE
		WATER EFFICIENCY & CONSERVATION		
6	5.303.1.1	Additions in excess of 50,000 sq ft	N/A	(E) BLDG.
7	5.303.1.2	Excess consumption	N/A PLU	MB. SÉPERATE PER
8	5.303.2	Water reduction	TI-A0.3.8	GRN 18N
9	5.303.3	Water conserving plumbing fixtures and fittings	TI-A0.3.8	GRN 17
10	5.303.3.3	Showerheads	N/A	NOT IN PROJECT \$
11	5.304.1	Outdoor water use in landscape areas	N/A	N/A
12	5.304.3	Irrigation controller and sensor application	N/A	N/A
13	5.304.4	Outdoor water use meters	N/A	N/A
14	5.304.5	Exterior faucets		JMB. SEPERATE PEI
15	5.305.1	Graywater ready		OT IN PROJECT SC
16	5.305.2	Recycled water supply to fixtures		OT IN PROJECT SC
		MATERIAL CONSERVATION & RESOURCE		
17	5.407.1	Weather protection	A2.1	(E) OPENING
18	5.407.2.1	Sprinklers	LI-1	SEE LANDSCAPING
19	5.407.2.2.1	Nonabsorbent floor and wall finishes	TI-A5.1A-C	FINISH SCHED.
20		Exterior door protection	#4 & #6/AD.2	
21	5.407.2.2.2	Flashing	#4 & #6/AD 2	ARCH. DETAILS

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(Rev. 05/15/17)

23 | 5.408.2

Construction waste diversion

Universal Waste

24 5.408.3 Excavated soil and land clearing debris

PLUMBING FIXTURE FLOW RATES Non-Residential Occupancies 2017 Los Angeles Green Building Code

(Incorporate this form into the plans)

GRN 17

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FACT SHEET

ARCH. PLAN

N/A | CIVIL SEPERATE PERMIT

SECTION 5.303.2 WATER REDUCTION FIXTURE FLOW RATES

FIXTURE TYPE	MAXIMUM ALLOWABLE FLOW RATE
Showerheads	1.8 gpm @ 80 psi
Lavatory faucets, residential	1.2 gpm @ 60 psi ^{1,3}
Lavatory Faucets, nonresidential	0.4 gpm @ 60 psi ^{1,3}
Kitchen faucets	1.5 gpm @ 60 psi ^{2,4,5}
Wash fountains	1.8 gpm for every 20 in. of rim space @60 ps
Metering faucets	0.2 gallons/cycle
Metering faucets for wash fountains	0.2 gpm for every 20 in. of rim space @ 60 ps
Gravity tank type water closets	1.28 gallons/flush ⁶
Flushometer tank water closets	1.28 gallons/flush ⁶
Flushometer valve water closets	1.28 gallons/flush ⁶
Urinals	0.125 gallons/flush
Clothes Washers	ENERGY-STAR certified
Dishwashers	ENERGY-STAR certified

Lavatory faucets shall not have a flow rate less than 0.8 gpm at 20 psi. ² Kitchen faucets may temporarily increase flow above the maximum rate, but not above 2.2gpm @ 60psi and must default to a maximum flow rate of 1.8 gpm @ 60psi. Where complying faucets are unavailable, aerators or other means may be used to achieve reduction. ⁴ Kitchen faucets with a maximum 1.8 gpm flow rate may be installed in buildings that have water closets with a maximum flush rate of 1.06 gallons/flush installed throughout

5 This requirement does not apply to faucets in commercial kitchens. 6 Includes single and dual flush water closets with an effective flush of 1.28 gallons or less. Single Flush Toilets - The effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is the average flush volume when tested in accordance with ASME

Dual Flush Toilets - The effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is defined as the composite, average flush volume of two reduced flushes and one full flush. Flush volumes will be tested in accordance with ASME A112.19.2 and ASME

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GRN 10

2017 Los Angeles Green Building Code

GRN 10

ITEM	CODE	REQUIREMENT	REFERENCE SHEET	COMMENTS	
#	SECTION	REQUIREMENT	Sheet # or N/A	e.g. note #, detail # or reason for N/A	
25	5.410.1	Recycling by occupants (additions that are > 30% of existing floor area)	TI-A1.1	SITE PLAN	
26	5.410.4	Testing, adjusting and balancing	N/A CO	MMISSIONING PRO	VIDE
27	5.410.4.2	- Systems	N/A CO	MMISSIONING PRO	VIDE
28	5.410.4.3	- Procedures	N/A C	DMMISSIONING PRO	VIDE
29	5.410.4.3.1	 HVAC balancing 	N/A C	MMISSIONING PRO	VIDE
30	5.410.4.4	Reporting		MMISSIONING PRO	
31	5.410.4.5	 Operation and maintenance manual 		MMISSIONING PRO	
32	5.410.4.5.1	 Inspections and reports 		MMISSIONING PRO	
		ENVIRONMENTAL QUALITY	,		
33	5.503.1	Fireplace and Woodstoves	N/A	NOT IN PROJECT	
34	5.504.1.3	Temporary ventilation	N/A	NOT IN PROJECT	SCOP
35	5.504.3	Covering of duct openings and protection of mechanical equipment during construction	A0.3.10/MEC	NOTES	
36	5.504.4	Finish material pollutant control	TI-A5.1A-C	FINISH SCHED.	
37	5.504.4.1	 Adhesives, sealants, and caulks 		T INTOTT COTTLED.	
38	5.504.4.3	 Paints and coatings 			
39	5.504.4.3.1	Aerosol paints and coatings			
40	5.504.4.3.2	– Verification	A0.3.10	NOTES	
41	5.504.4.4	Carpet systems	TI-A5.1A-C	FINISH SCHED.	
42	5.504.4.4.1	Carpet cushion	TI-A5.1A-C		
43	5.504.4.5	Composite wood products	TI-A5.1A-C		
44	5.504.4.6	Resilient flooring systems	TI-A5.1A-C	FINISH SCHED.	
45	5.504.5.3	Filters	A0.3.10/MECH		
46	5.504.7	Environmental tobacco smoke (ETS) control	A0.3.10/MECH	NOTES	
47	5.505.1	Indoor moisture control	A0.3.10/MECH	NOTES	
48	5.506.2	Carbon dioxide (CO ₂) monitoring	A0.3.10/MECH		
49		Exterior noise transmission prescriptive method		NOT IN PROJECT S	
50	5.507.4.1	 Exterior noise transmission for roof 		NOT IN PROJECT S	
51	3.307.4.1	 Exterior noise transmission for walls 		NOT IN PROJECT S	
52		 Exterior noise transmission for windows 	N/A	NOT IN PROJECT S	
53	5.507.4.2	Exterior noise transmission performance method	N/A	NOT IN PROJECT S	COPE
54	5.507.4.3	Interior sound transmission	TI-A2.1	FLOOR PLANS	
_55	5.508.1	Ozone depletion and greenhouse gas reductions		NOT IN PROJECT S	
56	5.508.2	Supermarket refrigerant leak reduction	N/A	NOT IN PROJECT S	COPE

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. (Rev. 05/15/17) Page **2** of **2** www.ladbs.org



2017 Los Angeles Green Building Code WATER CONSERVATION ORDINANCE NOTES

1. For new buildings or additions exceeding 50,000 ft²,

- install a separate water meter or sub-meter for the following areas:
- A. For each individual leased, rented, or other tenant space within the building projected to consume more than 100 gpd (380 L/day). B. Where potable water is used for industrial/process
- a. Makeup water for cooling towers where

uses, for water supplied to the following

- flow through is greater than 500 gpm (30
- Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). Steam and hot-water boilers with energy
- input more than 500,000 Btu/h (147 kW). C. For each building that uses more than 100 gpd on a parcel containing multiple buildings.
- 2. Provide a 20% reduction in the overall potable water use for each building. The reduction shall be based on the maximum allowable water use per plumbing fixture and fittings as required by the Los Angeles Plumbing Code. New projects having a water supply of 2"or less and additions and alterations projects may use the prescriptive method outlined in this section. (5.303.2)
- 3. A water budget for landscape irrigation use that conforms to the California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO) is required for new landscape areas of 500 sqft or more. The following methods to reduce potable water use in landscape areas include, but are not limited to, use of captured rainwater, recycled water, graywater, or water treated for irrigation purposes and conveyed by a water district or public entity. (5.304.1, 5.304.2)
- 4. New buildings on a site with 1,000 square feet or more of cumulative landscape area shall have separate meters or submeters for outdoor water use. (5.304.4)
- 5. Additions and alterations on a site with 1,000 square feet of cumulative landscape area which require water service upgrade shall have separate meters or submeters for outdoor water use.

NON-RESIDENTIAL BUILDINGS 6. Locks shall be installed on all publicly accessible

- exterior faucets and hose bibs.
- . Except as provided in this section, for sites with over 500 square feet of landscape area, alternate waste piping shall be installed to permit discharge from the clothes washer, bathtub, showers, and bathroom/restrooms wash basins to be used for a future graywater irrigation system
- Except as provided in this section, where Cityrecycled water is available within 300 feet of the property line, water closets, urinals, floor drains, and process cooling and heating in the building shall be supplied from recycled water and shall be installed in accordance with the Los Angeles Plumbing Code.
- 9. Cooling towers shall comply with one of the following: A. Shall have a minimum of 6 cycles of concentration (blowdown)
- B. A minimum of 50% of the makeup water supply to the cooling towers shall come from non-potable water sources, including treated backwash.
- 10. Develop and construct a system for onsite reuse of the groundwater where groundwater is being extracted and discharged. Alternatively, the groundwater may be discharged to the sewer.
- 11. Provide a hot water system complying with one of the
- A. The hot water system shall not allow more than 0.6 gallons of water to be delivered to any fixture before hot water arrives.
- B. Where a hot water recirculation or electric resistance heat trace wire system is installed, the branch from the recirculating loop or electric resistance heat trace wire to the fixture shall contain a maximum of 0.6 gallons.
- (Los Angeles Plumbing Code Section 610.4.1)

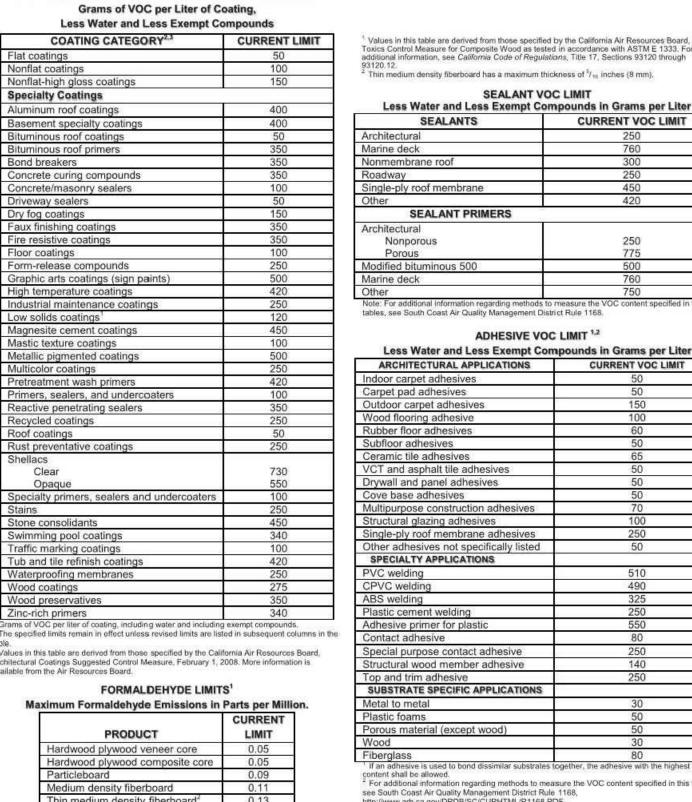
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LA DBS VOC AND FORMALDEHYDE LIMITS 2017 Los Angeles Green Building Code (Incorporate this form into the plans)

FORM GRN 11

The tables below are taken from the 2017 Los Angeles Green Building Code Tables 4.504.1, 4.504.2, 4.504.3, 4.504.5, 5.504.4.1, 5.504.4.2, 5.504.4.3, 5.504.4.5 VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS^{2,3}



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ENVIRONMENTAL QUALITY:

- 1. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV OF 8. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.
- 2. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL STARTUP OF THE HEATING, COOLING AND
- VENTILATING EQUIPMENT ARCHITECTURAL PAINTS AND COATINGS, ADHESIVES, CAULKS AND SEALANTS SHALL COMPLY WITH THE VOLATILE ORGANIC
- COMPOUND (VOC) LIMITS LISTED IN TABLES 5.504.4.1- 5.504.4.3. THE VOC CONTENT VERIFICATION CHECKLIST, FORM GRN 2, SHALL BE COMPLETED AND VERIFIED PRIOR TO FINAL INSPECTION APPROVAL. THE MANUFACTURER 'S SPECIFICATIONS SHOWING VOC
- CONTENT FOR ALL APPLICABLE PRODUCTS SHALL BE READILY AVAILABLE AT THE JOB SITE AND BE PROVIDED TO THE FIELD INSPECTOR FOR VERIFICATION. 5. ALL NEW CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE
- FOLLOWING: I. CARPET AND RUG INSTITUTE 'S GREEN LABEL PLUS II. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH 'S
- SPECIFICATION 01350 III. NSF/ANSI 140 AT THE GOLD LEVEL OR HIGHER IV. SCIENTIFIC CERTIFICATIONS SYSTEMS SUSTAINABLE CHOICE V. COMPLIANT WITH THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS CALIFORNIA (CA-CHPS) CRITERIA
- INTERPRETATION FOR EQ 7.0 AND 7.1 AND LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE. 6. ALL NEW CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM
- 7. NEW HARDWOOD PLYWOOD, PARTICLE BOARD, AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED IN THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE FORMALDEHYDE LIMITS LISTED IN TABLE 5.504.4.5. 8 THE FORMALDEHYDE EMISSIONS VERIFICATION CHECKLIST, FORM GRN 3, SHALL BE COMPLETED PRIOR TO FINAL INSPECTION APPROVAL. THE MANUFACTURER 'S
- SPECIFICATIONS SHOWING FORMALDEHYDE CONTENT FOR ALL APPLICABLE WOOD PRODUCTS SHALL BE READILY AVAILABLE AT THE JOB SITE AND BE PROVIDED TO THE FIELD INSPECTOR FOR VFRIFICATION. 9. 80% OF THE TOTAL AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING:
- I. CERTIFIED AS A CHPS LOW-EMITTING MATERIAL IN THE CHPS HIGH PERFORMANCE PRODUCTS DATABASE II. CERTIFIED UNDER UL GREENGUARD GOLD III. CERTIFIED UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM IV. MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S

SPECIFICATION 01350

- 10. AN AIR FILTER WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8 OR HIGHER SHALL BE INSTALLED IN THE MECHANICAL SYSTEM FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY. 11. THE BUILDING SHALL MEET OR EXCEED THE PROVISIONS FOR MECHANICAL VENTILATION OF SECTION 1203 OF THE LOS ANGELES
- BUILDING CODE. 12. BUILDINGS THAT USE DEMAND CONTROL VENTILATION SHALL HAVE CO2 SENSORS AND VENTILATION CONTROLS INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6 SECTION
- 14. DESIGNATED OUTDOOR SMOKING AREA SHALL BE AT LEAST 25 FEET FROM AN OUTDOOR AIR INTAKE OR OPERABLE WINDOWS. 15. THE BUILDING SHALL MEET OR EXCEED THE PROVISIONS FOR

13. WOOD BURNING FIREPLACES AND OTHER WOOD BURNING DEVICES

MECHANICAL VENTILATION OF SECTION 1203 OF THE LOS ANGELES BUILDING CODE 16. BUILDINGS THAT USE DEMAND CONTROL VENTILATION SHALL HAVE CO2 SENSORS AND VENTILATION CONTROLS INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE CALIFORNIA ENERGY CODE, CCR. TITLE 24 PART 6 SECTION

GENERAL NOTES:

- 1. THE CONSTRUCTION SHALL NOT RESTRICT A FIVE FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL-BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METÈRS, APPURTENANCES, ETC.) OR TO THE LOCATION OF THE HOOK-UP. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES - WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL EXPENSES. 2. AN APPROVÉD SEISMIC GAS SHUTOFF VALVE WILL BE INSTALLED ON THE FUEL GAS
- LINE ON THE DOWN STREAM SIDE OF THE UTILITY METER AND BE RIGIDLY CONNECTED TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING. (PER ORDINANCE 170,158) (INCLUDES COMMERCIAL ADDITIONS AND TI WORK OVER \$10,000) SEPARATE PLUMBING PERMIT IS REQUIRED. 3. PROVIDE ULTRA FLUSH WATER CLOSETS FOR ALL NEW CONSTRUCTION. EXISTING SHOWER HEADS AND TOILETS MUST BE ADAPTED TO LOW WATER CONSUMPTION. 4. A COPY OF THE EVALUATION REPORT AND/OR CONDITIONS LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE. 5. THIS BUILDING MUST BE EQUIPPED WITH AN AUTOMATIC FIRE EXTINGUISHING

SYSTEM, COMPLYING WITH (NFPA-13/NFPA-13R); THE SPRINKLER SYSTEM SHALL

- BE APPROVED BY PLUMBING DIVISIONS PRIOR TO INSTALLATION. (903.2). 6. EXIT SIGNS SHALL BE INTERNALLY & EXTERNALLY ILLUMINATED. 7. EXISTING SIGNS ILLUMINATED BY AN EXTERNALLY SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT CANDLES (54LUX). 8. INTERNALLY ILLUMINATED SIGN SHALL BE LISTED AND LABELED AND SHALL BE
- INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SECTION 9. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. 10. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM THAT WILL
- PROVIDE AN ILLUMINATION OF NOT LESS THAN 90 MIN. IN CASE OF PRIMARY POWER LOSS. (1011.6.3) 11. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. SEE 1008.1.9 FOR
- 12. DOOR HANDLES, LOCK AND OTHER OPERATING DEVICES SHALL BE INSTALLED AT A MIN 34" AND A MAX 48" ABOVE THE FINISHED FLOOR. 13. THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED. 14. ALL EGRESS DOOR OPERATION SHALL ALSO COMPLY WITH SECTION 1008.1.9 -
- 15. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS 16. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1
- FOOT-CANDLE AT THE WALKING SURFACE. 17. THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' ELECTRICAL SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE THE FOLLOWING AREAS: a. AISLES AND UNENCLOSED EGRESS STAIRWAYS IN ROOMS AND SPACES THAT
- REQUIRE TWO OR MORE MEANS OF EGRESS. b. CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAYS IN BUILDING REQUIRED TO HAVE TWO OR MORE EXITS.; c. EXTERIOR EGRESS COMPONENTS AT OTHER THAN THE LEVEL OR EXIT DISCHARGE UNTIL EXIT DISCHARGE IS ACCOMPLISHED FOR BUILDINGS REQUIRE TO HAVE TWO OR MORE EXITS d. INTERIOR EXIT DISCHARGE ELEMENTS, AS PERMITTED IN SECTION 1027.1, IN

e. EXTERIOR LANDINGS, AS REQUIRED BY SECTION 1008.1.6, FOR EXIT

DISCHARGE DOORWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE

BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.

- 18. THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2702. 19. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT—CANDLE (11LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOT-CANDLE (1 LUX) MEASURED ALONG THE
- PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOT-CANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOT-CANDLE (0.6 LUX) AT THE END OF EMERGENCY LIGHTING TIME DURATION. A MAXIMUM—TÒ—MINIMÚM ILLUMINATION UNIFORMITY RATIO OF 40 TO 1 SHALL NOT BE EXCEEDED. 20. TOILET FLOORS SHALL HAVE A SMOOTH, HARD NON-ABSORBENT SURFACE SUCH
- AS PORTLAND CEMENT, CERAMIC TILE OR TOTHER APPROVED MATERIAL THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 4" (1210.2.1) 21. WALLS WITHIN 2 FEET OF THE FRONT AND SIDES OF THE URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD NON-ABSORBENT SURFACE OF PORTLAND CEMENT, CONCRETE, CERAMIC TILE, OR OTHER SMOOTH, HARD NON-ABSORBENT SURFACE TO A HEIGHT OF 4 FEET AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE (1210.2.) 22. CEMENT, FIBER-CEMENT, OR GLASS MAT GYPSUM BOARD BACKERS IN COMPLIANCE WITH ASTM C1178, C1288, OR C1325 SHALL BE USED AS A BASE FOR WALL TILE IN TUB AND SHOWER AREAS AND WALL AND CEILING PANELS IN SHOWER AREAS. WATER-RESISTANCE GYPSUM BACKING BOARD SHALL BE USED AS A BASE FOR TILE IN WATER CLOSET COMPARTMENT WALLS WHEN INSTALLED IN ACCORDANCE WITH GA-216 OR ASTM C840. REGULAR GYPSUM WALLBOARD IS PERMITTED UNDER
- SHALL NOT BE USED IN THE FOLLOWING LOCATIONS: SECTION 2506.1 a. OVER A VAPOR RETARDER. b. IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY, SUCH AS SAUNAS, STEAM ROOMS, OR GANG SHOWER ROOMS. c ON CEILINGS WHERE FRAME SPACING EXCEEDS 12 INCHES O.C. FOR 1/2

THE OR WALL PANELS IN OTHER WALL AND CEILING AREAS WHEN INSTALLED IN ACCORDANCE WITH GA-216 OR ASTM C840. WATER-RESISTANT GYPSUM BOARD

INCH THICK AND MORE THAN 16 INCHES O.C. FOR 5/8 INCH THICK.

architecture

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Owner:

20730 PRAIRIE ST CHATSWORTH, CA 91311



Phase

20730 PRAIRIE ST. CHATSWORTH. CA 91311

Consultants:

RA SMITH HSA STRUCTURAL **MECHANICAL** RPM RPM

HUNTER

FIRE PROTECTION SOILS ENGINEER

Title: GREEN BUILDING NOTES

19415 Project Number: Drawn by: 11/27/2019 Date: Revision:

CITY OF LOS ANGELES DEPARTMENT OF TOXIC SUBSTANCES CONTROL

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Our mission is to provide the highest level of safety, and to protect public health and the environment from toxic harm.

Fact Sheet, January 2010

Universal Waste Fact Sheet

California's Universal Waste Rule allows individuals and businesses to transport, handle and recycle certain common hazardous wastes, termed universal wastes, in a manner that differs from the requirements for most hazardous wastes. The more relaxed requirements for managing universal wastes were adopted to ensure that they are managed safely and are not disposed of in the trash.

What are Universal Wastes?

Universal wastes are hazardous wastes that are widely produced by households and many different types of businesses. Universal wastes include televisions, computers and other electronic devices as well as batteries, fluorescent lamps, mercury thermostats, and other mercury containing equipment, among others.

The hazardous waste regulations (Cal. Code Regs, tit. 22, div. 4.5, ch. 11 section 66261.9) identify seven categories of hazardous wastes that can be managed as universal wastes. Any unwanted item that falls within one of these waste streams can be handled, transported and recycled following the simple requirements set forth in the universal waste regulations (UWR) (Cal. Code Regs, tit. 22, div. 4.5, ch. 23)

Universal wastes are:

- 1. Electronic devices: Includes any electronic device that is a hazardous waste (with or without a Cathode Ray Tube (CRT)), including televisions, computer monitors, cell phones, VCRs, computer CPUs and portable DVD players.
- 2. Batteries: Most household-type batteries, including rechargeable nickel-cadmium batteries, silver button batteries, mercury batteries, alkaline batteries and other batteries
- that exhibit a characteristic of a hazardous waste 3. Electric lamps: Fluorescent tubes and bulbs, high intensity discharge lamps, sodium
- vapor lamps and electric lamps that contain added mercury, as well as any other lamp that exhibits a characteristic of a hazardous waste. (e.g., lead). 4. Mercury-containing equipment: Thermostats, mercury switches, mercury thermometers, pressure or vacuum gauges, dilators and weighted tubing, mercury rubber flooring, mercury gas flow regulators, dental amalgams, counterweights, dampers and mercury
- added novelties such as jewelry, ornaments and footwear. 5. CRTs: The glass picture tubes removed from devices such as televisions and computer
- 6. CRT glass: A cathode ray tube that has been accidently broken or processed for
- recycling. 7. Non-empty aerosol cans

Universal Wastes may not be disposed of in the trash!

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- 1. Another handler (typically a business that specializes in collecting, storing, accumulating and shipping universal wastes). Examples:
- A household hazardous waste facility
- A "Take-it-Back Partner" such as a retailer or manufacturer
- A collection event
- 2. A universal waste transporter. Examples:
 - A curbside HHW collection program
- A package service (e.g., postal service, UPS) A destination facility that offers a pick-up service
- 3. A universal waste destination facility (generally, a facility with a permit to treat, store, or dispose of hazardous waste).

Search engines available to find locations accepting universal waste in your area: E-Recycle.org; Earth911.org; CalRecyle database; DTSC map; HHW list;

> For more information, see DTSC's Universal Waste Web page at: http://www.dtsc.ca.gov/HazardousWaste/UniversalWaste/index.cfm

> Contact your DTSC regulatory assistance officer at: (800) 728-6942

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Regulatory Standards for Universal Waste

- The UWR has separate requirements for of each of the three types of regulated entities:
- Universal waste handlers 2. Universal waste transporters
- 3. Destination Facilities

Universal Waste Handlers

A universal waste handler is a generator of universal waste or the owner or operator of a facility that receives universal waste from another universal waste handler, accumulates universal waste, and sends universal waste to another universal waste handler, a facility that accepts hazardous waste, or a foreign country.

A universal waste handler may be:

- 1. A person (e.g., a household or business) who generates universal waste but does not
- accept universal waste from others 2. A person who accepts and accumulates universal waste generated by others at his or her
- 3. A person who accepts universal waste generated by others and conducts certain treatment

Management Requirements for Universal Waste Handlers (Cal. Code Regs, tit. 22, sections 66273.30-66273.39; additional requirements for handlers who conduct authorized treatment, Cal. Code Regs, tit. 22, sections 66273.70-.77)

and recycling activities allowed by the universal waste handler regulations

- Do not dispose of universal waste or treat universal waste except as provided for in the
- Notify DTSC and/or obtain an EPA identification number Use proper containment—non-leaking, compatible containers
- Segregate universal waste in distinct areas
- Determine if materials generated when handling/recycling are hazardous wastes
- Comply with applicable requirements for hazardous waste If applicable, comply with zoning requirements when storing universal wastes
- Have spill kits readily available to deal with accidental spills (mercury-containing) devices)
- Use proper labeling and markings
- Accumulate universal waste no longer than one year

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- Provide personnel training to personnel who manage universal waste, or who supervise personnel who manage universal waste and keep training records
- Respond to releases of universal waste or its contents; determine if spill residuals are
- Track shipments by keeping records of what was received and shipped (name, address, quantities) for three years

Universal Waste Transporters

A universal waste transporter is a person engaged in the offsite transportation of universal waste by air, rail, highway or water. A universal waste transporter may be:

- 1. Universal waste handler carrying universal waste in his or her own vehicle
- 2. A package shipping service (e.g., US Postal Service; FedEx, UPS)
- 3. A commercial carrier (e.g., a trucking company, a hauler specializing in universal waste, or the operator of a destination facility that offers a universal waste pick-up service)
- If you do not own or operate a facility that accepts, generates, accumulates, or stores universal waste, but you pick up and transport universal waste (e.g., electronic devices from office complexes) to a recycling or collection facility, you are a universal waste transporter. <u>Universal waste transporters do not need to notify DTSC</u> or submit annual reports for their transportation activities.
- Universal waste transporters may store universal waste at a transfer facility for up to 10 days (depending on local zoning). A universal waste transporter who exceeds this limit is considered a universal waste handler and is subject to the handler requirements summarized above.

Destination Facilities

A destination facility is a fully-regulated hazardous waste facility that treats, disposes of, or recycles a specific type of universal waste. Examples of destination facilities are hazardous waste recycling facilities and hazardous waste landfills. A destination facility shall manage the universal waste in accordance with the requirements and conditions in its hazardous waste facility permit, unless authorized by section 66273.60 of title 22 of the California Code of Regulations to manage it pursuant to the reduced requirements applicable to universal waste handlers. A destination facility is required to follow certain rules for shipping universal wastes off-site and for rejecting shipments that contain universal waste and is required to keep records of all shipments received for three years. A facility that only accepts and accumulates universal waste is not a destination facility. Such a facility is regulated as a universal waste handler.

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Households and Conditionally Exempt Small Quantity Universal Waste Generators (CESQUWG)

Two categories of universal waste handlers—households and CESQUWGs—are exempt from most of the requirements of the universal waste regulations provided they comply with certain conditions. Handlers who qualify for these exemptions are not required:

- To obtain an EPA ID number or otherwise notify DTSC;
- To keep records of shipments or provide annual reports to DTSC; or
- To label their universal waste.

A household is defined to include a single detached residence (e.g., a house) or a single unit of a multiple residence unit (e.g., an apartment or condominium). Households that generate hazardous wastes other than universal wastes (e.g., paints and motor oil) can visit DTSC's household hazardous waste Web page (http://www.dtsc.ca.gov/HazardousWaste/UniversalWaste/HHW.cfm) for information on how to properly dispose of them.

A Conditionally Exempt Small Quantity Universal Waste Generator (CESQUWG) is a universal waste generator who produces less than 100 kilograms (220 pounds) of RCRA hazardous waste, including universal waste that is RCRA universal waste and less than 1 kilogram of acutely hazardous waste in a calendar month. (RCRA hazardous waste is hazardous waste that is regulated under the hazardous waste regulations adopted by the U.S. Environmental Protections

Pursuant to section 66273.8 of title 22 of the California Code of Regulations, a generator who meets the definition of a household or a CESQUWG is exempt from universal waste handler requirements provided he or she:

- Does not dispose of universal waste;
- 2) Relinquishes universal waste only to another universal waste handler, a universal waste transporter, a destination facility, or a curbside household hazardous waste collection program; and
- 3) Does not conduct treatment of universal waste, except for limited activities enumerated in the regulations (e.g., removing batteries, light bulbs, or mercury switches). This exemption applies only to universal waste generated by the household (e.g. light bulbs, computers, televisions, thermostats, cell phones, etc.), not to universal waste accepted from other people.

Where can I send universal wastes?

A handler may not send universal waste to a municipal solid waste (garbage) landfill or a non-hazardous waste recycling center. All handlers of universal waste must relinquish their universal waste to one of the following:

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hpa, inc. 18831 bardeen avenue, - ste. #100 irvine, ca 92612 tel: 949 •863 •1770 fax: 949 • 863 • 0851 email: hpa@hparchs.com



Owner:

20730 PRAIRIE ST. CHATSWORTH, CA 91311



Phase

20730 PRAIRIE ST. CHATSWORTH. CA 91311

Consultants:

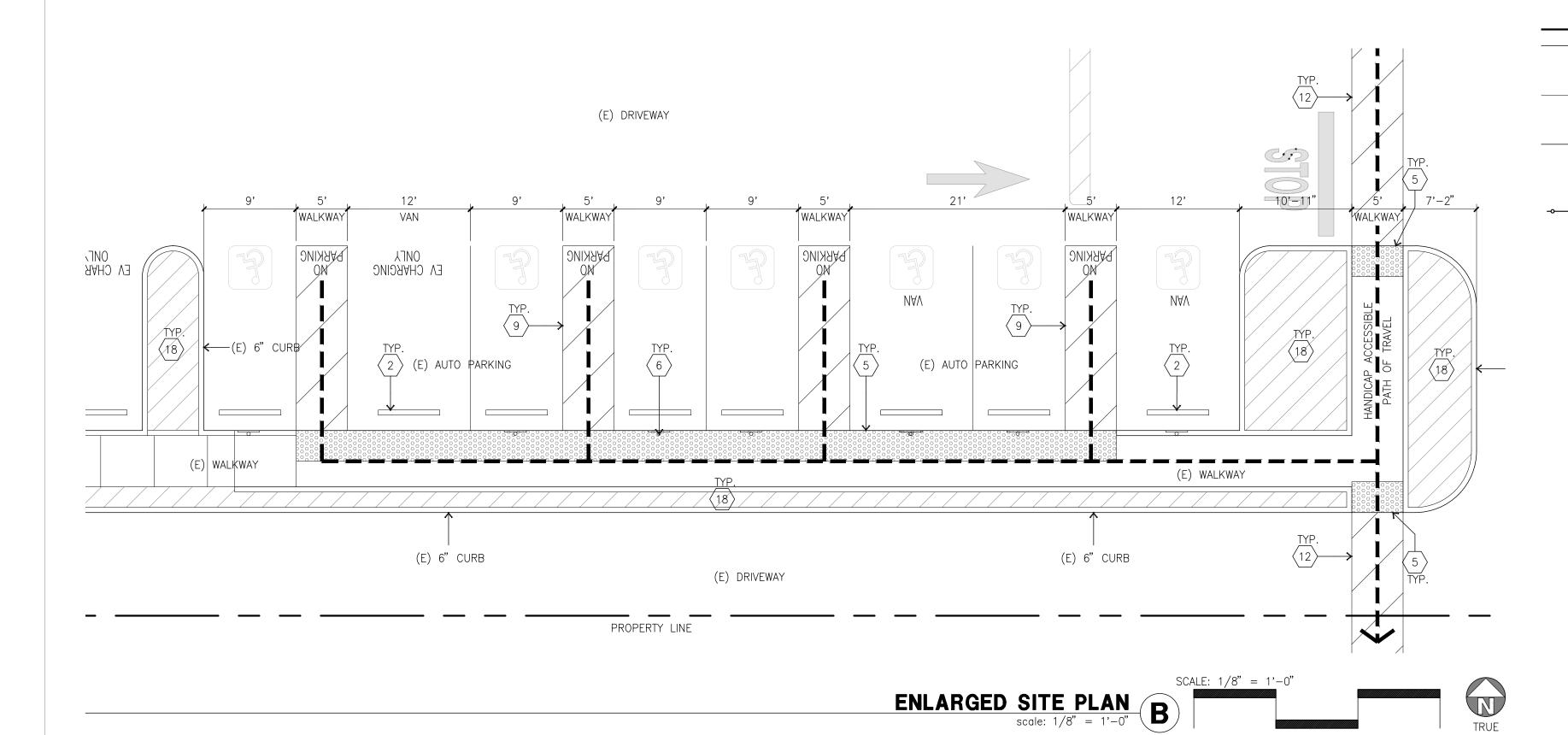
RA SMITH STRUCTURAL HSA MECHANICAL RPM **PLUMBING** RPM **ELECTRICAL** RPM HUNTER LANDSCAPE FIRE PROTECTION

SOILS ENGINEER

Title: GREEN BUILDING NOTES

19415 Project Number: Drawn by: 11/27/2019 Date:

Revision:



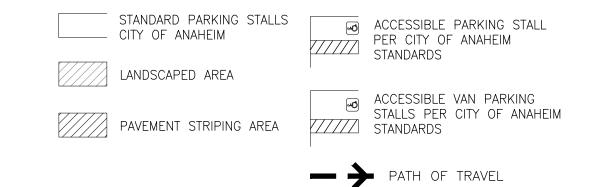
SITE PLAN KEYNOTES

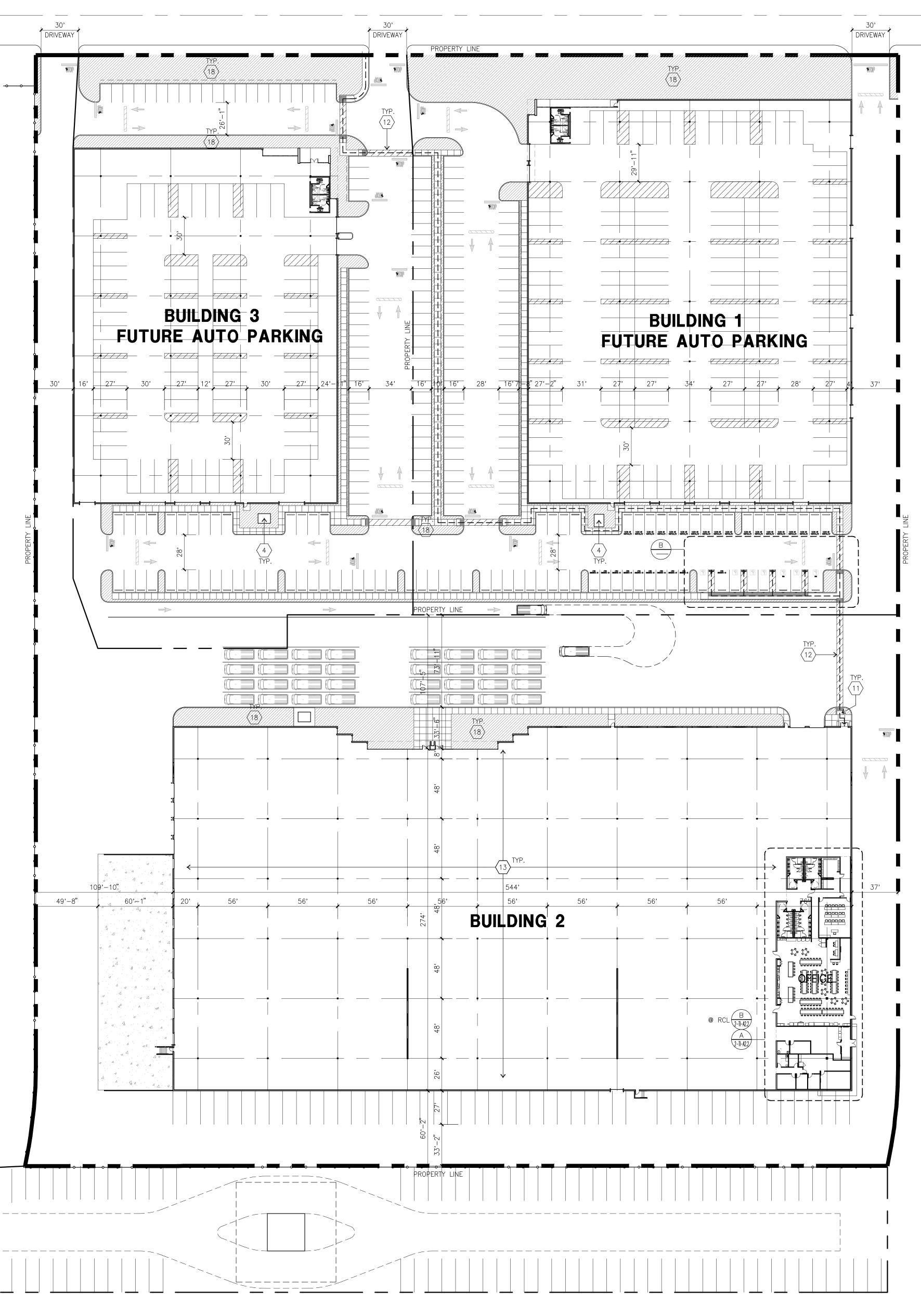
- 1 PROVIDE 23,120 SF VAN LOADING CANOPY WITH FIRE PROTECTION PER CODE REQUIREMENTS SEE STRUCTURAL DRAWINGS.
- \langle 2 angle provide concrete wheel stops.
- \langle 4 \rangle PROTECT IN-PLACE EXISTING SITE UTILITIES, TRANSFORMER, FDC, PIVs, ETC.
- \langle 5 angle ZERO CURB FOR ACCESSIBLE ACCESS.
- \langle 6 \rangle EXISTING ACCESSIBLE STALLS TO REMAIN PER PERMIT NUMBERS: BLD2019-02941 & BLD2019-04107.
- PROVIDE GRADE LEVEL RAMP WITH RETAINING WALL AND BOLLARDS AT THE BOTTOM, SEE ARCHITECTURAL $\sqrt{}$ DETAIL C/TI-A3.3 & STRUCTURAL DETAILS 5/SD-1.
- \langle 8 \rangle FIRE TRUCK HAMMERHEAD TURN PER CITY OF ANAHEIM STANDARDS.
- \langle 9 \rangle all parking striping to be per city of anaheim standard see detail 8/Ti-ad.7.
- ACCESSIBLE STALLS WITH PAVEMENT SYMBOL, ALL REQUIRED SIGNAGE PER CODE, TRUNCATED DOMES, ETC $^{
 m O}$ and all required components to comply with code requirements.
- (11) EXISTING ACCESSIBLE CONCRETE RAMP TO PUBLIC WALK TO REMAIN.
- $\langle 12 \rangle$ site area pavement striping per city of anaheim standards.
- $\langle 13 \rangle$ EXISTING CONCRETE SLAB TO REMAIN. PATCH/REPAIR WHERE WORK OCCURS.
- (14) EXTERIOR LIGHT POLES, SEE 7/AD.5 & ELECTRICAL DRAWINGS.
- $\langle 15 \rangle$ EXISTING POLE SIGN TO REMAIN.
- $\langle 16 \rangle$ EXISTING MONUMENT SIGN TO REMAIN.
- \langle 17 angle WALL MOUNTED LIGHTING FIXTURES, SEE ELECTRICAL SHEETS.
- (18) LANDSCAPE, SEE LANDSCAPE PLANS.
- (19) REMOVABLE BOLLARDS FOR FIRE ACCESS ONLY TO COMPLY FIRE — DEPARTMENT REQUIREMENTS AND STANDARDS.
- $\langle 20 \rangle$ bicycle rack, **see detail x/ad.x.**
- $\langle 21 \rangle$ PROTECT IN-PLACE EXISTING FIRE HYDRANT.
- $\langle 22 \rangle$ PROVIDE STEEL FENCE PER PERMIT BLD2019-02243
- $\langle 23 \rangle$ provide steel fence at **8' high per city of anaheim standards. See** DETAIL 9/AD.7.

SITE PLAN GENERAL NOTES

- 1. THE SITE PLAN BASED ON THE SOILS REPORT PREPARED BY:
- 2. IF SOILS ARE EXPANSIVE IN NATURE, USE STEEL REINFORCING FOR ALL SITE CONCRETE.
- 3. ALL DIMENSIONS ARE TO THE FACE OF CONCRETE WALL, FACE OF CONCRETE CURB OR GRID LINE U.N.O.
- 4. SEE "C" PLANS FOR ALL CONCRETE CURBS, GUTTERS AND SWALES. 5. THE ENTIRE PROJECT SHALL BE PERMANENTLY MAINTAINED WITH AN AUTOMATIC IRRIGATION SYSTEM.
- 6. SEE "C" DRAWINGS FOR POINT OF CONNECTIONS TO OFF-SITE UTILITIES. CONTRACTOR SHALL VERIFY ACTUAL UTILITY LOCATIONS.
- 7. PROVIDE POSITIVE DRAINAGE AWAY FROM BLDG. SEE "C" DRAWINGS.
- 8. CONTRACTOR TO REFER TO "C" DRAWINGS FOR ALL HORIZONTAL CONTROL DIMENSIONS. SITE PLANS ARE FOR GUIDANCE AND STARTING LAYOUT POINTS.
- 9. SEE "C"DRAWINGS FOR FINISH GRADE ELEVATIONS. 10. CONCRETE SIDEWALKS TO BE A MINIMUM OF 4" THICK W/ TOOLED JOINTS
- AT 6' O.C. EXPANSION/CONSTRUCTION JOINTS SHALL BE A MAXIMUM 12' EA. WAY. EXPANSION JOINTS TO HAVE COMPRESSIVE EXPANSION FILLER MATERIAL OF 1/4". FINISH TO BE A MEDIUM BROOM FINISH U.N.O.
- 11. PAINT CURBS AND PROVIDE SIGNS TO INFORM OF FIRE LANES AS REQUIRED BY FIRE DEPARTMENT.
- 12. CONSTRUCTION DOCUMENTS PERTAINING TO THE LANDSCAPE AND IRRIGATION OF THE ENTIRE PROJECT SITE SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND APPROVED BY PUBLIC FACILITIES DEVELOPMENT PRIOR TO ISSUANCE OF BUILDING PERMITS.
- 13. PRIOR TO FINAL CITY INSPECTION, THE LANDSCAPE ARCHITECT SHALL SUBMIT A CERTIFICATE OF COMPLETION TO PUBLIC FACILITIES DEVELOPMENT.
- 14. ALL LANDSCAPE AND IRRIGATION DESIGNS SHALL MEET CURRENT CITY STANDARDS AS LISTED IN GUIDELINES OR AS OBTAINED FROM PUBLIC FACILITIES
- 15. ALL VERTICAL MOUNTING POLES OF CHAIN LINK FENCING SHALL BE CAPPED. 16. LANDSCAPED AREAS SHALL BE DELINEATED WITH A MINIMUM SIX INCHES (6") HIGH CURB.

SITE PLAN LEGEND







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email: hpa@hparchs.com



Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

THIENES Structural: Mechanical RPM Plumbing: RPM Electrical:

Landscape: HUNTER LANDSCAPE

Fire Protection: Soils Engineer:

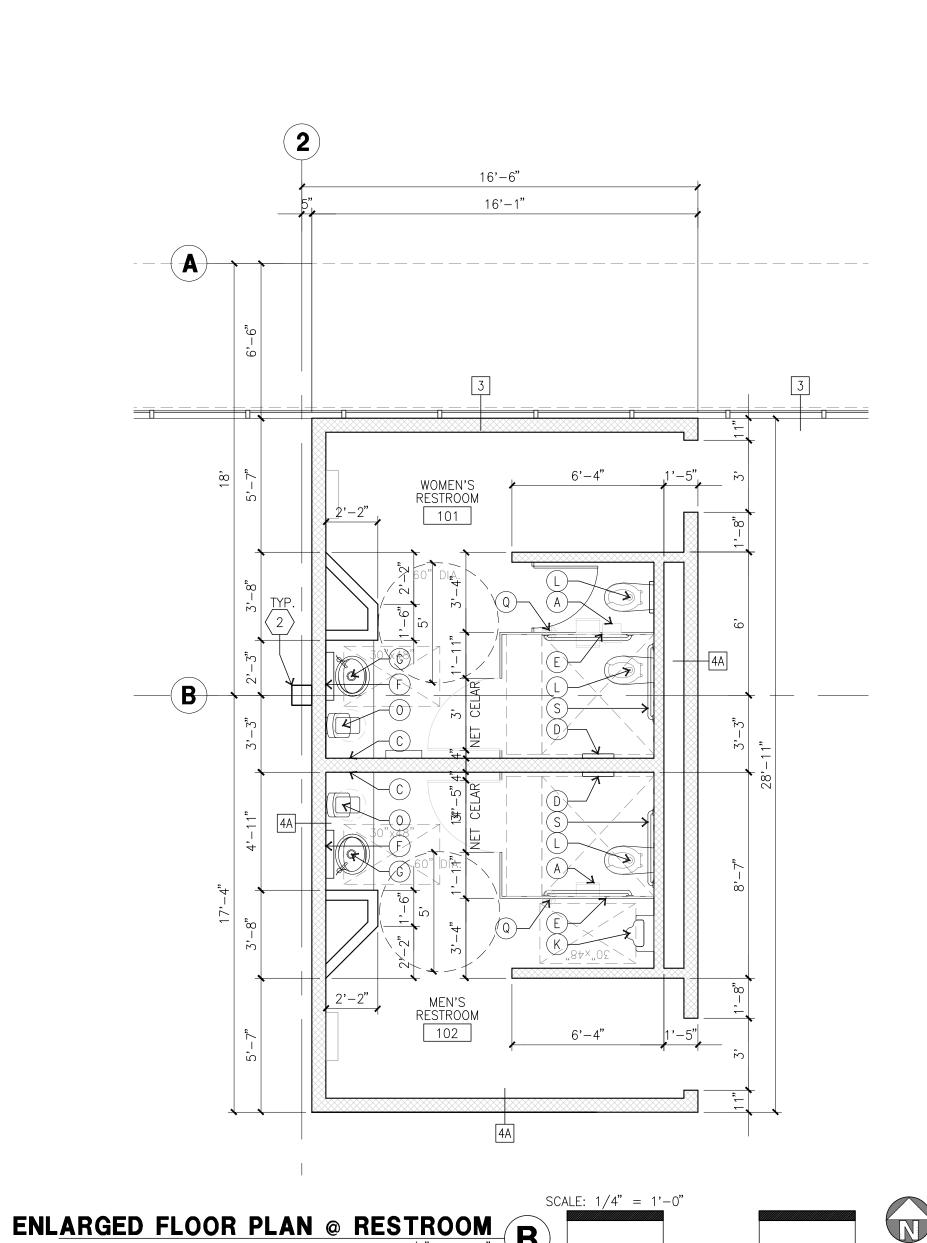
Overall Site Plan Title:

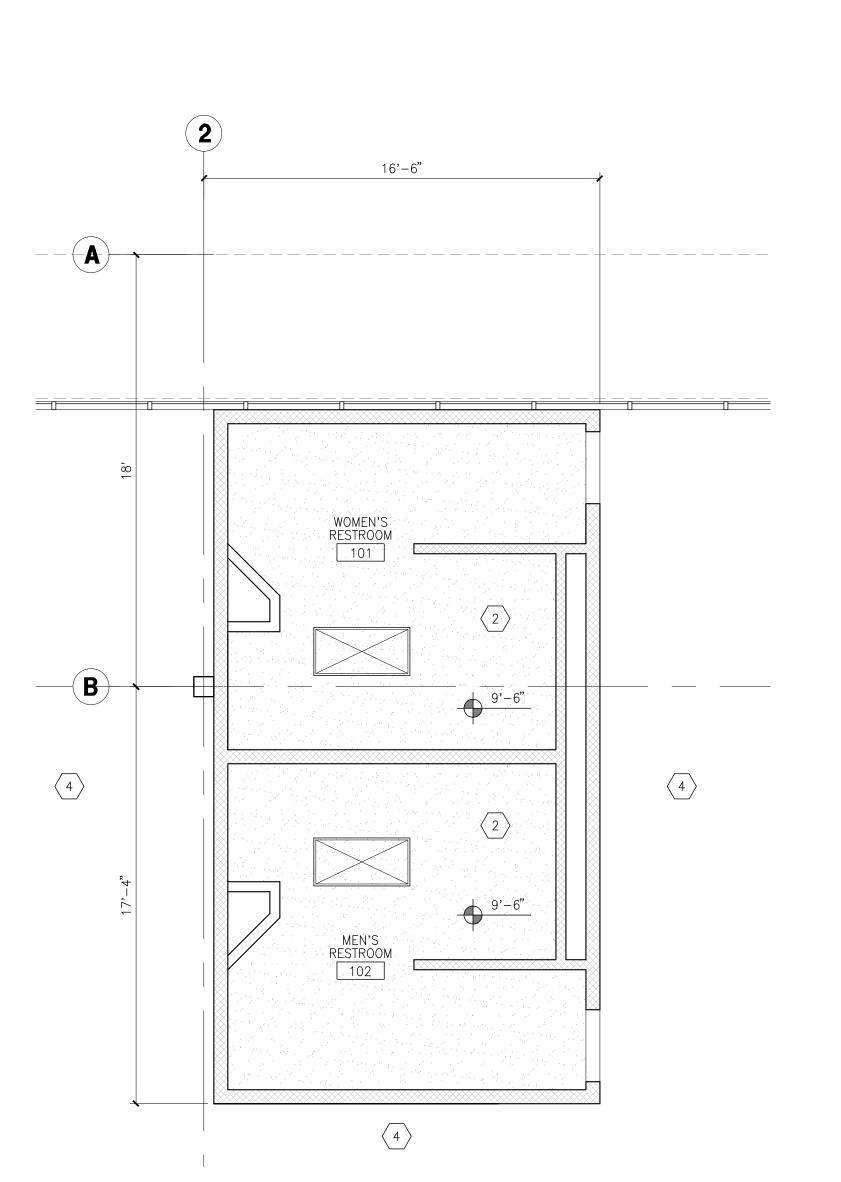
19436 Project Number: Drawn by: 10/24/19 Date:

Revision:

Sheet:

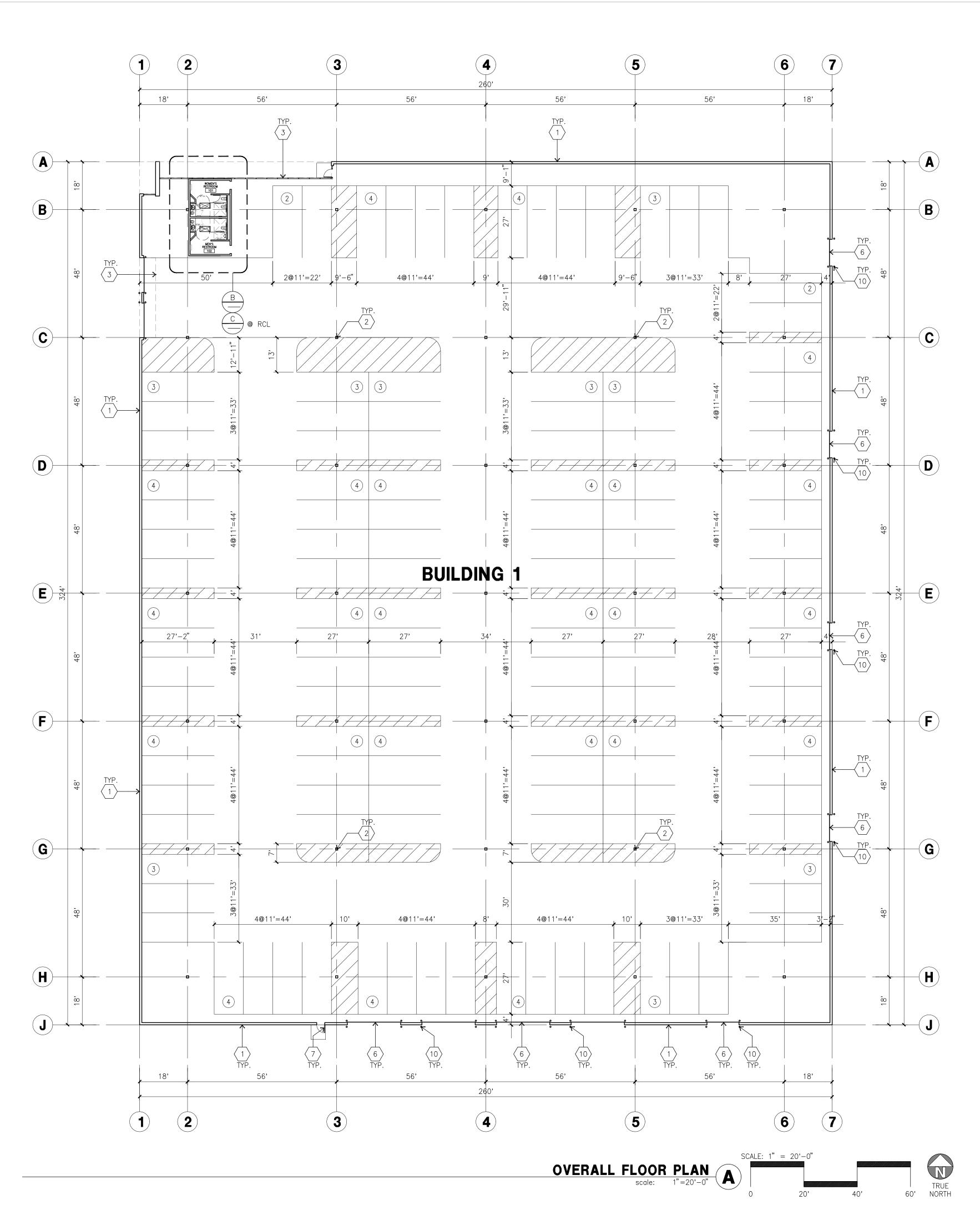
CAUTION: IF THIS SHEET IS NOT A 30" X 42" IT IS A REDUCED PRINT





ENLARGED RCL @ RESTROOM scale: 1/4" = 1'-0"

12' NORTH



PLUMBING FIXTURE NOTES

- PARTITION MOUNTED TOILET SEAT COVER DISPENSER TISSUE DISPENSER, NAPKIN DISPOSAL
- TOWEL DISPENSER / WASTE RECEPTICAL B-3944
- RECESSED MOUNTED TOILET SEAT COVER DISPENSER AND TOILET TISSUE DISPENSER WITH SANITARY DISPOSAL B-3547
- E) BAKED ENAMEL PARTITION, WALL HUNG W/STAINLESS STEEL HARDWARE.
- F) MIRROR FIELD DIMENSION. B-290 @ WALL HUNG LAV.- 24"X48"
- G COUNTERTOP MOUNTED LAVATORY
- (H) WALL HUNG LAVATORY, SEE PLUMBING DRAWINGS
- J) MOP AND BROOM HOLDER W/ SHELF. B-239X34
- (K) URINAL SEE PLUMBING DRAWINGS
- (L) FLOOR MOUNTED WATER CLOSET, SEE PLUMBING DRAWINGS
- (M) MOP SINK, SEE PLUMBING.
- (N) SOAP DISPENSER. COUNTERTOP MOUNTED.
- \bigcirc SOAP DISPENSER. WALL MOUNTED B-2111 P) LAMINATE PARTITION, WALL HUNG W/ STAINLESS STEEL HARDWARE AT OFFICE RESTROOMS.
- (O) FLOOR DRAIN. SEE PLUMBING PLAN. (R) SAME AS "A" WITHOUT NAPKIN DISPOSAL.

- (S) L-SHAPED GRAB BARS 1 1/4" DIA. W/SATIN FINISH
- RECESSED MOUNTED TOILET SEAT COVER DISPENSER AND TOILET TISSUE DISPENSER B-3547 (T) COAT HOOKS, LOCATED WITHIN REACH RANGE SPECIFIED IN SECTION 11B-308. SEE TI-A0.3
 - (U) ELECTRICAL WATER HEATER.
 - (V) 18"X54" MIRROR WITH BOTTOM EDGE OF THE REFLECTIVE SURFACE 20" MAX. ABOVE FINISH FLOOR (2016 CBC 11B-803.6).
 - W 48"X20" BENCH WITH BACK SUPPORT.
 SEE BENCH BACK SUPPORT DETAIL PER 11B-903.4 BENCH SHALL COMPLY TO 2016 CBC 11B-903.
 - (X) DRINKING FOUNTAIN.

KEYNOTES - FLOOR PLAN

- ig($_1ig)$ existing concrete tilt—up panel.
- 2 EXISTING STRUCTURAL STEEL COLUMN.
- 3 EXISTING TYPICAL STOREFRONT SYSTEM WITH GLAZING.
- \langle 4 \rangle existing overhead door to remain.
- $\langle 5 \rangle$ provide maximum occupant load signage, see detail on sheet ti-a2.0.1.
- \langle 6 angle existing grade level door to remain
- \langle 7 \rangle existing hollow metal exterior man door.
- TELEVISION MONITORS AND BRACKETS SUPPLIED AND INSTALLED BY TENANT'S $^{\circ}$ / a/v contractor. Verify sizes and location with tenant for recess in PARTITION. SEE DETAIL 3/TI-AD.3.
- 9 5% OF THE TOTAL SEATING CAPACITY TO BE ALLOTTED FOR PERSONS WITH DISABILITIES WITH ISA, CLR. REQT'S AND ALL REQUIRED BY CODE TO COMPLY.
- (10) CONC. FILLED GUARD POST. 6" DIA. U.N.O.. 42"H.
- $\langle 11 \rangle$ EXISTING EXTERIOR ROOF DRAIN TO REMAIN.
- \langle 12angle existing stairs to remain no change.
- 13) EXISTING FIRE RISER, FIELD VERIFY.
- $\langle 14
 angle$ tenant provided and installed manually pull-down projector screen.
- (15) PROVIDE OCCUPANT LOAD SIGNAGE
- (16) PROVIDE CORNER GUARDS, TYPICAL.
- INFILL EXISTING DOOR OPENING WITH STUCCO TO MATCH EXISTING WALL TEXTURE OVER EXTERIOR PLYWOOD SHEATHING OVER METAL STUDS WITH INSULATION.
- PROVIDE 5% OF TOTAL LOCKER UNITS TO BE ACCESSIBLE TO COMPLY WITH ACCESSIBILITY REQUIREMENTS.

VALL LEGEND - ALL FLOOR PLANS

EXISTING CONCRETE TILT-UP WALL CONCRETE TILT—UP WALL WITH NEW FURRING SEE DETAIL 11/TI—AD.1 EXISTING STOREFRONT SYSTEM. NEW STOREFRONT SYSTEM TO MATCH EXISTING 8" WALL STUD FULL HEIGHT WALL TO UNDERSIDE OF STRUCTURE METAL STUD WALL SEE BELOW SEE 2/AD.6-1 FOR MORE DETAIL INFO

A. SAME AS 5 EXTEND 9' A.F.F.

WINDOW TYPE. REFER TO SHEET A5.2 FOR MORE INFORMATION

FEC FIRE EXTINGUISHER CABINET

GENERAL NOTES - REFLECTED CEILING PLAN

- 1. ALL DRYWALL LIGHTS TO BE RECESSED TYPE.
- 2. ALL LIGHTS & SPRINKLER HEADS TO BE CENTER OF TILE PATTERN
- 3. ALL ROOMS TO HAVE EQUAL TILE PERIMETERS, U.N.O.
- 4. CONTRACTOR RESPONSIBLE FOR COORDINATION OF ALL LIGHTS, SPRINKLERS, & MECHANICAL REGISTER, DIFFUSERS AND GRILLS.
- 5. FOR DRYWALL STUD FRAMING SEE DETAIL SHEET TI-AD.1
- 6. PROVIDE WINDOW SHADE @ ALL OFFICE & WAREHOUSE OFFICE WINDOW(INTERIOR AND EXTERIOR GLAZING)LOCATIONS
- 7. PROVIDE CLIP HOLD DOWNS AT GRID TO LIMIT ANY INFILTRATION AND EXFILTRATION.
- 8. EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTIONS, SPRINKLER HEADS AND OTHER PENETRATIONS SHALL A 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVE A SWING JOINT THAT CAN ACCOMODATE 1" OF CEILING MOVEMENT IN ALL HORIZONTAL DIRECTIONS IS PERMITTED TO BE PROVIDED AT THE TOP OF THE SPRINKLER HEAD EXTENSION.

KEYNOTES - REFLECTED CEILING PLAN

- 2' X 4' SUSPENDED HEAVY DUTY T-BAR GRID ACOUSTICAL TILE CEILING SYSTEM. SEE DETAIL 17/TI-AD.2
- $\langle 2 \rangle$ 1 Layer 5/8" Type "X" Gyp. Bd. attached to underside of ceiling
- \langle 3 \rangle GYP. BOARD SOFFIT FOR UPPER CASEWORK.
- \langle 4 \rangle open to roof framing above
- THE CEILING IN THIS ROOM TO BE PROVIDED WITH ONE LAYER OF 6-1/5 SONOBATT INSULATION.

LEGEND - REFLECTED CEILING PLAN

- 2' X 4' SECOND LOOK TEGULAR EDGE CEILING. SEE RCL PLAN FOR
- 5/8" GYP. BD. UNDER CEILING JOISTS SEE RCL PLAN FOR CEILING H
- 2'-0" X 4'-0" RECESSED FLORESCENT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
- 1'-0" X 4'-0" FLUORESCENT LIGHT FIXTURE, SEE ELECTRICAL DRAWI
- ↑⊗↑ EMERGENCY EXIT LIGHTS



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Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

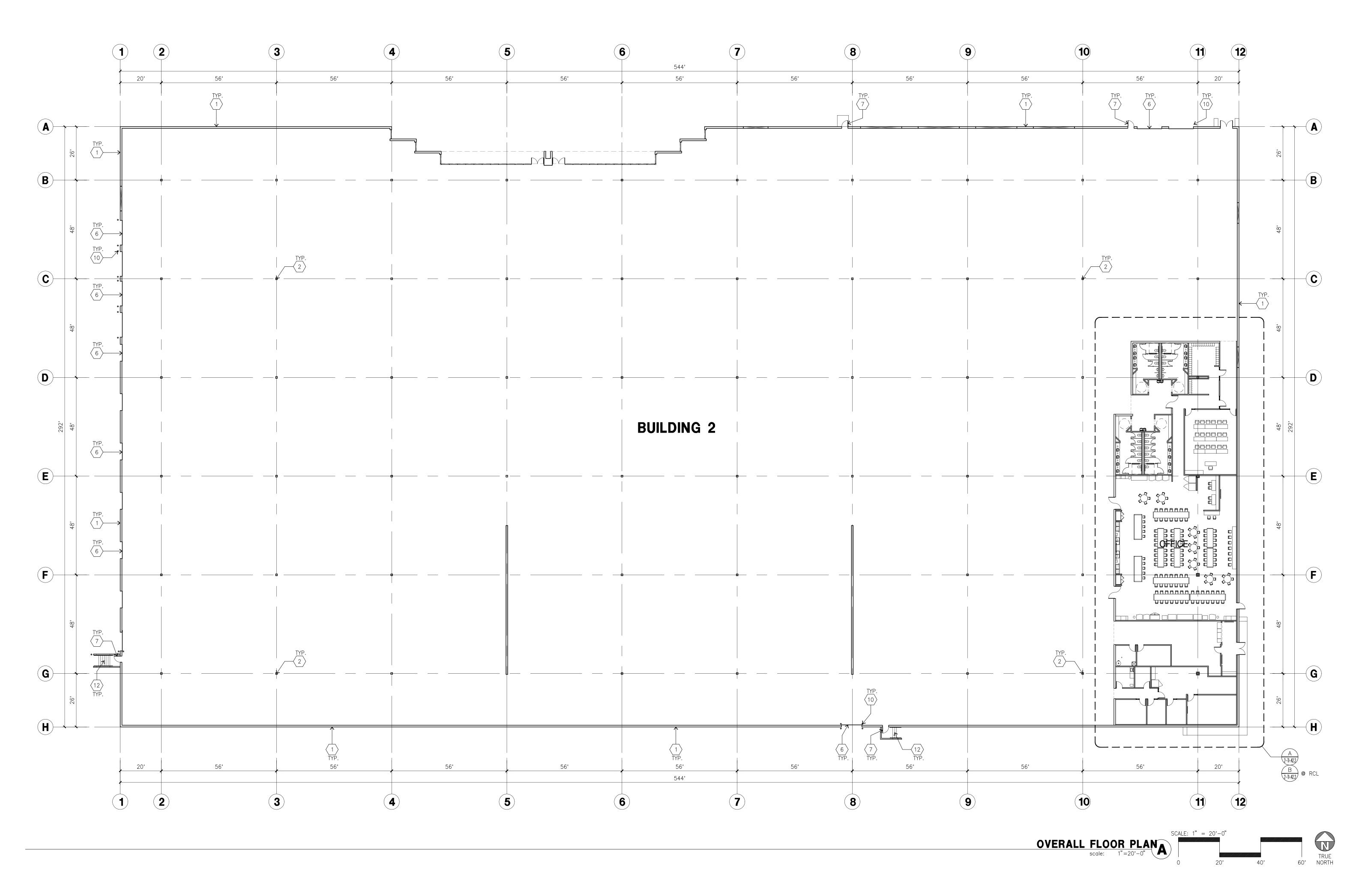
THIENES Structural: Mechanical: Plumbing: Electrical:

Landscape: HUNTER LANDSCAPE

Fire Protection: Soils Engineer:

Title: Building 1 Overall Floor Plan

Project Number: Drawn by: 10/24/19 Date: Revision:



KEYNOTES - FLOOR PLAN

- 1 EXISTING CONCRETE TILT-UP PANEL.
- $\langle 2 \rangle$ EXISTING STRUCTURAL STEEL COLUMN.
- (3) EXISTING TYPICAL STOREFRONT SYSTEM WITH GLAZING.
- $\langle 4 \rangle$ EXISTING OVERHEAD DOOR TO REMAIN.
- $\langle 5 \rangle$ PROVIDE MAXIMUM OCCUPANT LOAD SIGNAGE, SEE DETAIL ON SHEET TI-A2.0.1.
- 6 EXISTING GRADE LEVEL DOOR TO REMAIN
- $\overline{\langle 7 \rangle}$ EXISTING HOLLOW METAL EXTERIOR MAN DOOR.
- TELEVISION MONITORS AND BRACKETS SUPPLIED AND INSTALLED BY TENANT'S A/V CONTRACTOR. VERIFY SIZES AND LOCATION WITH TENANT FOR RECESS IN
- PARTITION. SEE DETAIL 3/TI-AD.3.
- 9 5% OF THE TOTAL SEATING CAPACITY TO BE ALLOTTED FOR PERSONS WITH DISABILITIES WITH ISA, CLR. REQT'S AND ALL REQUIRED BY CODE TO COMPLY.
- $\langle 10 \rangle$ CONC. FILLED GUARD POST. 6" DIA. U.N.O.. 42"H. $\langle 11 \rangle$ EXISTING EXTERIOR ROOF DRAIN TO REMAIN.
- $\langle 12 \rangle$ EXISTING STAIRS TO REMAIN NO CHANGE.
- $\langle 13 \rangle$ EXISTING FIRE RISER, FIELD VERIFY. (14) TENANT PROVIDED AND INSTALLED MANUALLY PULL-DOWN PROJECTOR SCREEN
- (15) PROVIDE OCCUPANT LOAD SIGNAGE
- $\langle 16 \rangle$ PROVIDE CORNER GUARDS, TYPICAL.
- INFILL EXISTING DOOR OPENING WITH STUCCO TO MATCH EXISTING WALL TEXTURE OVER EXTERIOR PLYWOOD SHEATHING OVER METAL STUDS WITH INSULATION.
- PROVIDE 5% OF TOTAL LOCKER UNITS TO BE ACCESSIBLE TO COMPLY WITH ACCESSIBILITY REQUIREMENTS.

<u>ALL</u>	LEGEND	- ALL	FLOOR	PLANS

EXISTING CONCRETE TILT-UP WALL CONCRETE TILT—UP WALL WITH NEW FURRING SEE DETAIL 11/TI—AD.1

EXISTING STOREFRONT SYSTEM.

NEW STOREFRONT SYSTEM TO MATCH EXISTING 4 7/7///// 8" WALL STUD FULL HEIGHT WALL TO UNDERSIDE OF STRUCTURE

METAL STUD WALL SEE BELOW

SEE 2/AD.6-1 FOR MORE DETAIL INFO 5 - O"H SECURITY GALVAZINED CHAIN LINK FENCING A. SAME AS 5 EXTEND 9' A.F.F.

WINDOW TYPE. REFER TO SHEET A5.2 FOR MORE INFORMATION

FEC FIRE EXTINGUISHER CABINET

GLAZING LEGEND

A TEMPERED VISION GLASS

B TEMPERED SIDELIGHT



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Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

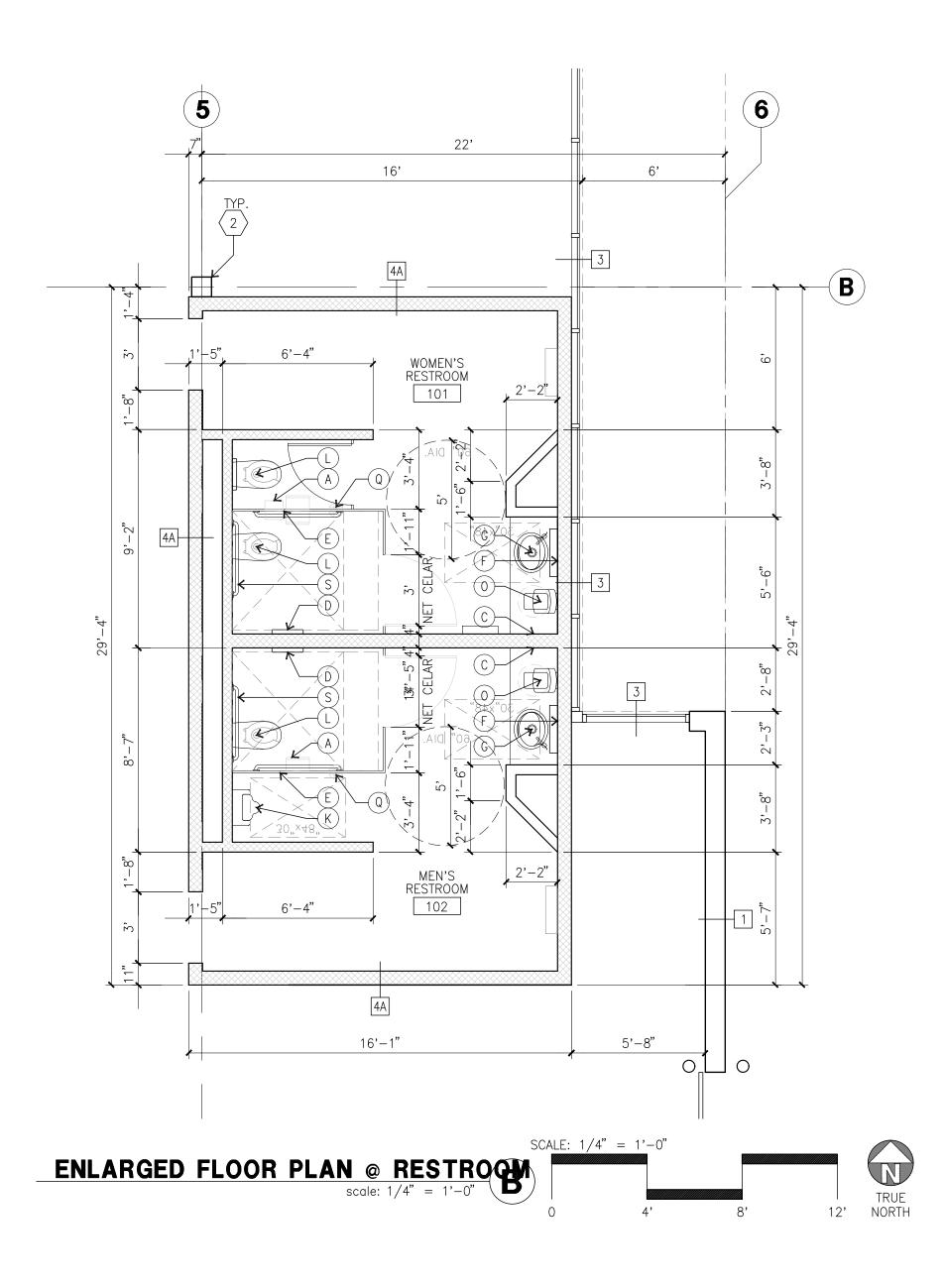
THIENES Structural: Mechanical: Plumbing: Electrical: Landscape: HUNTER LANDSCAPE

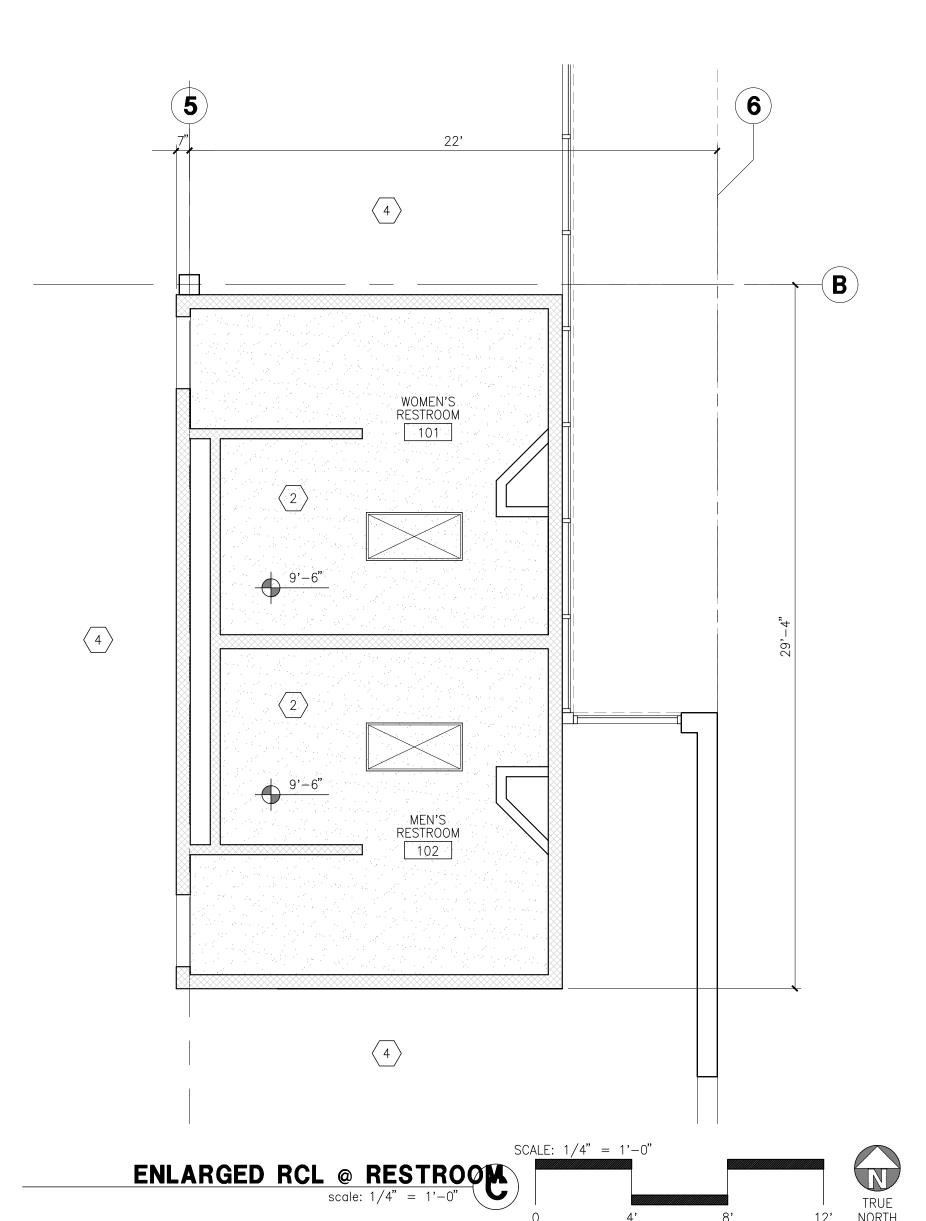
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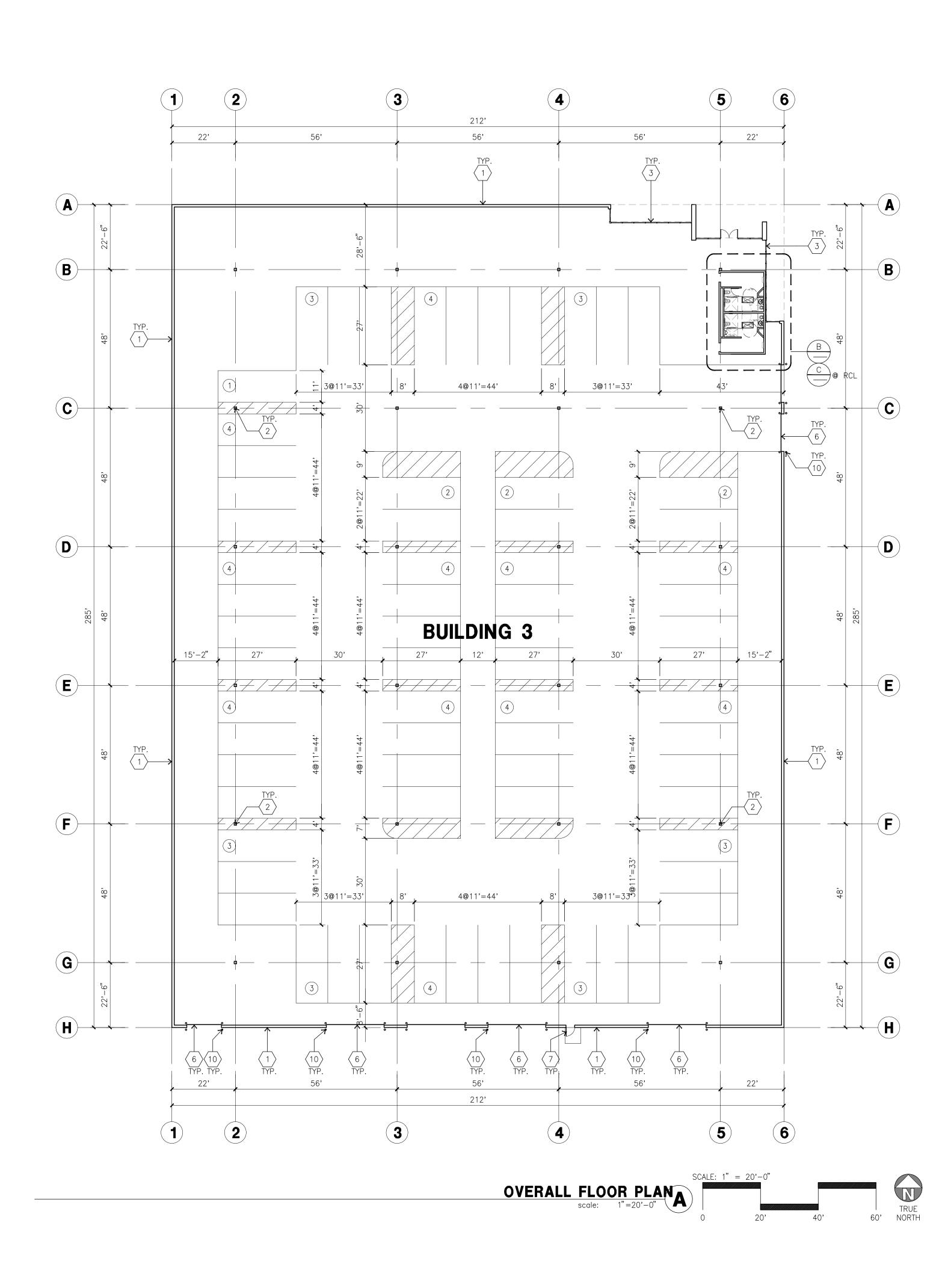
Fire Protection:

Soils Engineer:

Project Number: 19436 Drawn by: 10/24/19 Date: Revision:







PLUMBING FIXTURE NOTES

PARTITION MOUNTED TOILET SEAT COVER DISPENSER TISSUE DISPENSER, NAPKIN DISPOSAL

(S) L-SHAPED GRAB BARS 1 1/4" DIA. W/SATIN FINISH

W 48"X20" BENCH WITH BACK SUPPORT.
SEE BENCH BACK SUPPORT DETAIL PER 11B-903.4

BENCH SHALL COMPLY TO 2016 CBC 11B-903.

(V) 18"X54" MIRROR WITH BOTTOM EDGE OF THE REFLECTIVE SURFACE

20" MAX. ABOVE FINISH FLOOR (2016 CBC 11B-803.6).

SECTION 11B-308. SEE TI-A0.3

(U) ELECTRICAL WATER HEATER.

(X) DRINKING FOUNTAIN.

- RECESSED MOUNTED TOILET SEAT COVER DISPENSER AND TOILET TISSUE DISPENSER B-3547 (T) COAT HOOKS, LOCATED WITHIN REACH RANGE SPECIFIED IN C) TOWEL DISPENSER / WASTE RECEPTICAL B-3944
- D) RECESSED MOUNTED TOILET SEAT COVER DISPENSER AND TOILET TISSUE DISPENSER WITH SANITARY DISPOSAL B-3547
- E) BAKED ENAMEL PARTITION, WALL HUNG W/STAINLESS STEEL HARDWARE.
- F) MIRROR FIELD DIMENSION. B-290 @ WALL HUNG LAV.- 24"X48"
- G COUNTERTOP MOUNTED LAVATORY
- (H) WALL HUNG LAVATORY, SEE PLUMBING DRAWINGS
- J) MOP AND BROOM HOLDER W/ SHELF. B-239X34
- (K) URINAL SEE PLUMBING DRAWINGS
- (L) FLOOR MOUNTED WATER CLOSET, SEE PLUMBING DRAWINGS
- (M) MOP SINK, SEE PLUMBING.
- (N) SOAP DISPENSER. COUNTERTOP MOUNTED.
- \bigcirc SOAP DISPENSER. WALL MOUNTED B-2111
- (P) LAMINATE PARTITION, WALL HUNG W/ STAINLESS STEEL HARDWARE AT OFFICE RESTROOMS.
- Q FLOOR DRAIN. SEE PLUMBING PLAN.
- (R) SAME AS "A" WITHOUT NAPKIN DISPOSAL.

KEYNOTES - FLOOR PLAN

- ig($_1ig)$ existing concrete tilt—up panel.
- 2 EXISTING STRUCTURAL STEEL COLUMN.
- 3 EXISTING TYPICAL STOREFRONT SYSTEM WITH GLAZING.
- \langle 4 \rangle EXISTING OVERHEAD DOOR TO REMAIN.
- (5) PROVIDE MAXIMUM OCCUPANT LOAD SIGNAGE, SEE DETAIL ON SHEET TI-A2.0.1.
- \langle 6 angle existing grade level door to remain
- \langle 7 \rangle existing hollow metal exterior man door.
- TELEVISION MONITORS AND BRACKETS SUPPLIED AND INSTALLED BY TENANT'S $^{\circ}$ / a/v contractor. Verify sizes and location with tenant for recess in PARTITION. SEE DETAIL 3/TI-AD.3.
- 9 5% OF THE TOTAL SEATING CAPACITY TO BE ALLOTTED FOR PERSONS WITH DISABILITIES WITH ISA, CLR. REQT'S AND ALL REQUIRED BY CODE TO COMPLY.
- (10) CONC. FILLED GUARD POST. 6" DIA. U.N.O.. 42"H.
- (11) EXISTING EXTERIOR ROOF DRAIN TO REMAIN.
- \langle 12angle EXISTING STAIRS TO REMAIN NO CHANGE.
- 13) EXISTING FIRE RISER, FIELD VERIFY.
- $\langle 14
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- (15) PROVIDE OCCUPANT LOAD SIGNAGE
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- INFILL EXISTING DOOR OPENING WITH STUCCO TO MATCH EXISTING WALL TEXTURE OVER EXTERIOR PLYWOOD SHEATHING OVER METAL STUDS WITH INSULATION.
- PROVIDE 5% OF TOTAL LOCKER UNITS TO BE ACCESSIBLE TO COMPLY WITH ACCESSIBILITY REQUIREMENTS.

VALL LEGEND - ALL FLOOR PLANS

EXISTING CONCRETE TILT-UP WALL CONCRETE TILT—UP WALL WITH NEW FURRING SEE DETAIL 11/TI—AD.1 EXISTING STOREFRONT SYSTEM. NEW STOREFRONT SYSTEM TO MATCH EXISTING 8" WALL STUD FULL HEIGHT WALL TO UNDERSIDE OF STRUCTURE METAL STUD WALL SEE BELOW SEE 2/AD.6-1 FOR MORE DETAIL INFO 5 • • • 8'-0"H SECURITY GALVAZINED CHAIN LINK FENCING A. SAME AS 5 EXTEND 9' A.F.F.

WINDOW TYPE. REFER TO SHEET A5.2 FOR MORE INFORMATION

FEC FIRE EXTINGUISHER CABINET

GENERAL NOTES - REFLECTED CEILING PLAN

- 1. ALL DRYWALL LIGHTS TO BE RECESSED TYPE.
- 2. ALL LIGHTS & SPRINKLER HEADS TO BE CENTER OF TILE PATTERN
- 3. ALL ROOMS TO HAVE EQUAL TILE PERIMETERS, U.N.O.
- 4. CONTRACTOR RESPONSIBLE FOR COORDINATION OF ALL LIGHTS, SPRINKLERS, & MECHANICAL REGISTER, DIFFUSERS AND GRILLS.
- 5. FOR DRYWALL STUD FRAMING SEE DETAIL SHEET TI-AD.1
- 6. PROVIDE WINDOW SHADE @ ALL OFFICE & WAREHOUSE OFFICE
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- 7. PROVIDE CLIP HOLD DOWNS AT GRID TO LIMIT ANY INFILTRATION AND EXFILTRATION.
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KEYNOTES - REFLECTED CEILING PLAN

- 2' X 4' SUSPENDED HEAVY DUTY T-BAR GRID ACOUSTICAL TILE CEILING SYSTEM. SEE DETAIL 17/TI-AD.2
- 2 1 LAYER 5/8" TYPE "X" GYP. BD. ATTACHED TO UNDERSIDE OF CEILING
- (3) GYP. BOARD SOFFIT FOR UPPER CASEWORK.
- 4 OPEN TO ROOF FRAMING ABOVE
- THE CEILING IN THIS ROOM TO BE PROVIDED WITH ONE LAYER OF 6-1/5 SONOBATT INSULATION.

LEGEND - REFLECTED CEILING PLAN

- 2' X 4' SECOND LOOK TEGULAR EDGE CEILING. SEE RCL PLAN FOR
- 5/8" GYP. BD. UNDER CEILING JOISTS SEE RCL PLAN FOR CEILING H
- 2'-0" X 4'-0" RECESSED FLORESCENT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
- 1'-0" X 4'-0" FLUORESCENT LIGHT FIXTURE, SEE ELECTRICAL DRAWI
- ↑⊗↑ EMERGENCY EXIT LIGHTS



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TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA



Consultants:

THIENES Structural: Mechanical: Plumbing: Electrical:

Landscape: HUNTER LANDSCAPE Fire Protection: Soils Engineer:



Title: Building 3 Overall Floor Plan

19436 Project Number: Drawn by: 10/24/19 Date:

Revision:



KEYNOTES - FLOOR PLAN

- 1 EXISTING CONCRETE TILT-UP PANEL.
- 2angle existing structural steel column.
- 3 EXISTING TYPICAL STOREFRONT SYSTEM WITH GLAZING.
- \langle 4 \rangle existing overhead door to remain.
- \langle 5 \rangle PROVIDE MAXIMUM OCCUPANT LOAD SIGNAGE, SEE DETAIL ON SHEET TI-A2.0.1.
- \langle 6 \rangle EXISTING GRADE LEVEL DOOR TO REMAIN

PARTITION. SEE DETAIL 3/TI-AD.3.

- $\langle 7 \rangle$ EXISTING HOLLOW METAL EXTERIOR MAN DOOR.
- TELEVISION MONITORS AND BRACKETS SUPPLIED AND INSTALLED BY TENANT'S A/V CONTRACTOR. VERIFY SIZES AND LOCATION WITH TENANT FOR RECESS IN
- 5% OF THE TOTAL SEATING CAPACITY TO BE ALLOTTED FOR PERSONS WITH $^\prime$ disabilities with isa, clr. reqt's and all required by code to comply.
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WALL LEGEND - ALL FLOOR PLANS

1	EXISTING CONCRETE TILT—UP WALL
2	CONCRETE TILT-UP WALL WITH NEW FURRING SEE DETAIL 11/TI-AD.1
3	EXISTING STOREFRONT SYSTEM.
3A	NEW STOREFRONT SYSTEM TO MATCH EXISTING
4 7///////	8" WALL STUD FULL HEIGHT WALL TO UNDERSIDE OF STRUCTURE
4A	METAL STUD WALL SEE BELOW SEE 2/AD.6-1 FOR MORE DETAIL INFO
5	8'-0"H SECURITY GALVAZINED CHAIN LINK FENCING
	A. SAME AS 5 EXTEND 9' A.F.F.



FEC FIRE EXTINGUISHER CABINET

GLAZING LEGEND

TEMPERED VISION GLASS

B TEMPERED SIDELIGHT

GENERAL NOTES - REFLECTED CEILING PLAN

1. ALL DRYWALL LIGHTS TO BE RECESSED TYPE.

- 2. ALL LIGHTS & SPRINKLER HEADS TO BE CENTER OF TILE PATTERN
- 3. ALL ROOMS TO HAVE EQUAL TILE PERIMETERS, U.N.O.
- 4. CONTRACTOR RESPONSIBLE FOR COORDINATION OF ALL LIGHTS, SPRINKLERS, & MECHANICAL REGISTER, DIFFUSERS AND GRILLS.
- 5. FOR DRYWALL STUD FRAMING SEE DETAIL SHEET TI-AD.1
- 6. PROVIDE WINDOW SHADE @ ALL OFFICE & WAREHOUSE OFFICE
- WINDOW(INTERIOR AND EXTERIOR GLAZING)LOCATIONS 7. PROVIDE CLIP HOLD DOWNS AT GRID TO LIMIT ANY INFILTRATION
- AND EXFILTRATION.
- 8. EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTIONS, SPRINKLER HEADS AND OTHER PENETRATIONS SHALL A 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVE A SWING JOINT THAT CAN ACCOMODATE 1" OF CEILING MOVEMENT IN ALL HORIZONTAL DIRECTIONS IS PERMITTED TO BE PROVIDED AT THE TOP OF THE SPRINKLER HEAD EXTENSION.

KEYNOTES - REFLECTED CEILING PLAN

- 1 2' X 4' SUSPENDED HEAVY DUTY T-BAR GRID ACOUSTICAL TILE CEILING SYSTEM. SEE DETAIL 17/TI-AD.2
- 2 1 LAYER 5/8" TYPE "X" GYP. BD. ATTACHED TO UNDERSIDE OF CEILING
- \langle 3 \rangle GYP. BOARD SOFFIT FOR UPPER CASEWORK.

OF THE SPRINKLER HEAD EXTENSION.

- 4 OPEN TO ROOF FRAMING ABOVE
- THE CEILING IN THIS ROOM TO BE PROVIDED WITH ONE LAYER OF 6-1/5 SONOBATT INSULATION.

LEGEND - REFLECTED CEILING PLAN

- 2' X 4' SECOND LOOK TEGULAR EDGE CEILING. SEE RCL PLAN FOR 5/8" GYP. BD. UNDER CEILING JOISTS SEE RCL PLAN FOR CEILING +
- 1'-0" X 4'-0" FLUORESCENT LIGHT FIXTURE, SEE ELECTRICAL DRAWI
- ↑⊗↑ EMERGENCY EXIT LIGHTS



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Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

THIENES Structural: Mechanical: Plumbing:

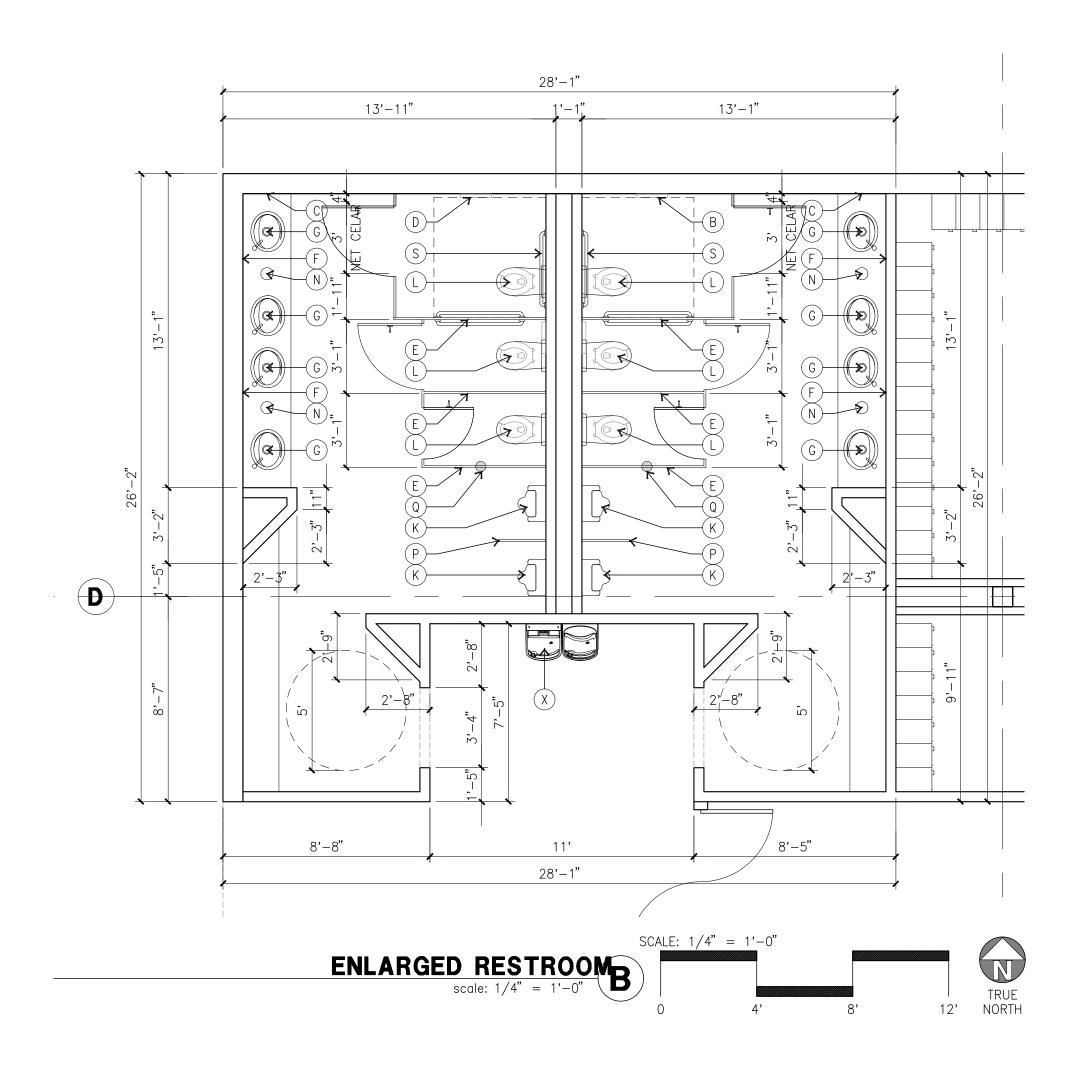
Landscape: HUNTER LANDSCAPE

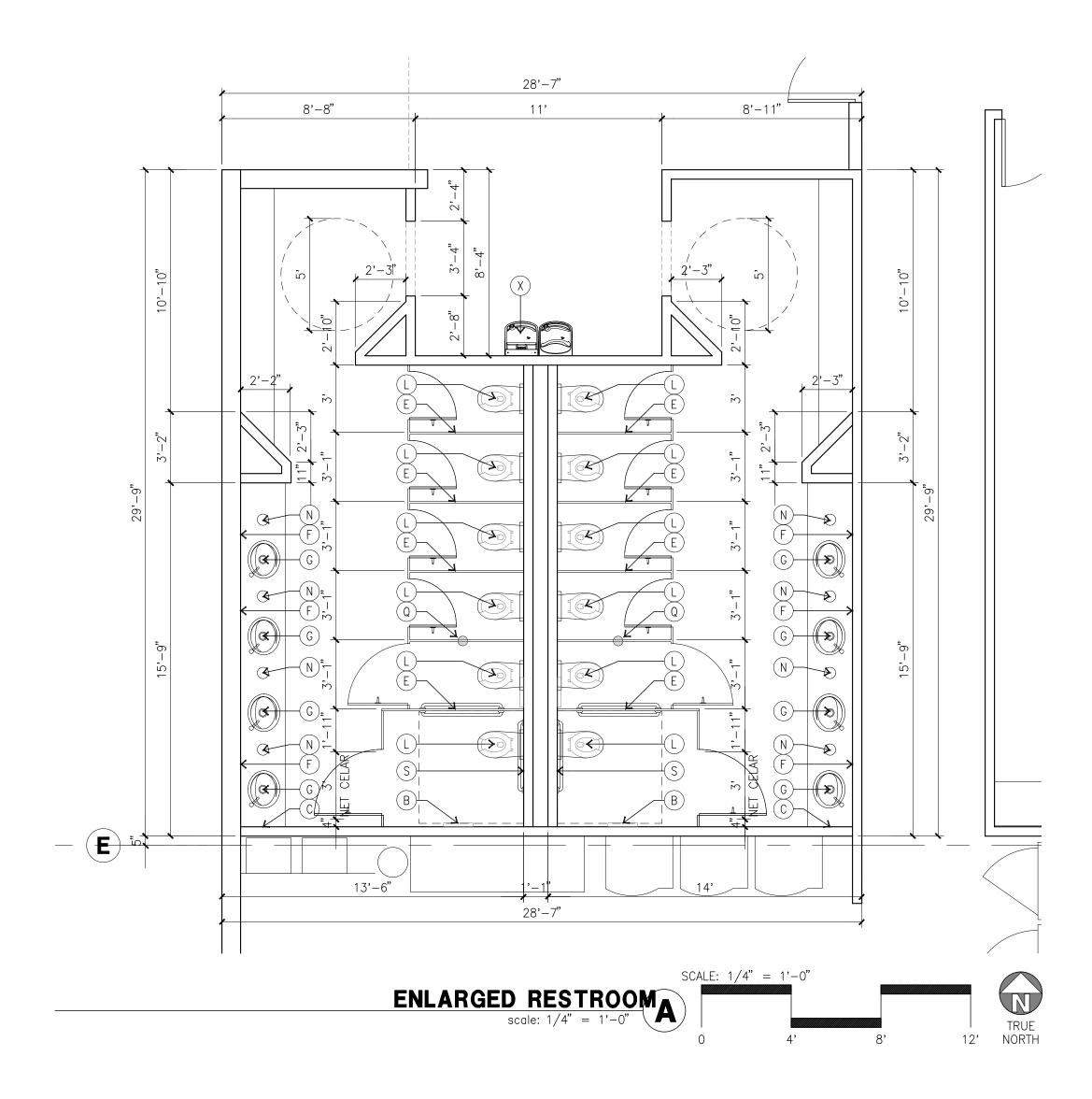
Fire Protection: Soils Engineer:

Electrical:

Title: Building 2 Enlarged Floor Plan

Project Number: Drawn by: 10/24/19 Date: Revision:





PLUMBING FIXTURE NOTES

- (A) PARTITION MOUNTED TOILET SEAT COVER DISPENSER TISSUE DISPENSER, NAPKIN DISPOSAL
- B RECESSED MOUNTED TOILET SEAT COVER DISPENSER AND TOILET TISSUE DISPENSER B-3547

 TOWEL DISPENSER / WASTE RECEPTICAL R-3944
- (C) TOWEL DISPENSER / WASTE RECEPTICAL B-3944
- $oxed{ t D}$ RECESSED MOUNTED TOILET SEAT COVER DISPENSER AND TOILET TISSUE DISPENSER WITH SANITARY DISPOSAL B-3547
- (E) BAKED ENAMEL PARTITION, WALL HUNG W/STAINLESS STEEL HARDWARE. (F) MIRROR - FIELD DIMENSION. B-290 @ WALL HUNG LAV.- 24"X48"
- (G) COUNTERTOP MOUNTED LAVATORY
- (H) WALL HUNG LAVATORY, SEE PLUMBING DRAWINGS
- (J) MOP AND BROOM HOLDER W/ SHELF. B-239X34
- (K) URINAL SEE PLUMBING DRAWINGS (L) FLOOR MOUNTED WATER CLOSET, SEE PLUMBING DRAWINGS
- (M) MOP SINK, SEE PLUMBING.
- (N) SOAP DISPENSER. COUNTERTOP MOUNTED.
- (0) SOAP DISPENSER. WALL MOUNTED B-2111
- (P) LAMINATE PARTITION, WALL HUNG W/ STAINLESS STEEL HARDWARE AT OFFICE RESTROOMS.
- Q FLOOR DRAIN. SEE PLUMBING PLAN.
- R SAME AS "A" WITHOUT NAPKIN DISPOSAL.

- S L-SHAPED GRAB BARS 1 1/4" DIA. W/SATIN FINISH
- (U) ELECTRICAL WATER HEATER.
- (V) 18"X54" MIRROR WITH BOTTOM EDGE OF THE REFLECTIVE SURFACE 20" MAX. ABOVE FINISH FLOOR (2016 CBC 11B-803.6).
- W 48"X20" BENCH WITH BACK SUPPORT. SEE BENCH BACK SUPPORT DETAIL PER 11B-903.4
- BENCH SHALL COMPLY TO 2016 CBC 11B-903.
- X DRINKING FOUNTAIN.

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Owner:

Project:

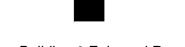
TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

THIENES Structural: Mechanical: Plumbing: RPM Electrical: Landscape: HUNTER LANDSCAPE Fire Protection:

Soils Engineer:



Title: Building 2 Enlarged Restroom

19436 Project Number: Drawn by: 10/24/19 Date:

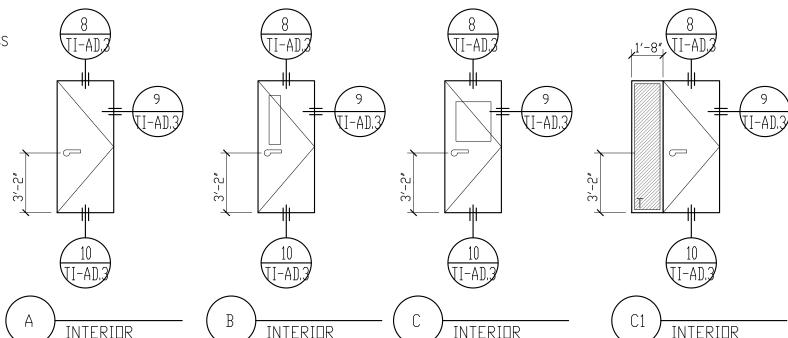
Revision:

DOOR SCHEDULE												
DOOR									FRAME			
NO.	ROOM NAME	TYPE	HARDWARE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	MATERIAL	FINISH	REMARKS	
WAREHO	USE OFFICE											
E	EXISTING											
102	HUB STAGING	А		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
103	OPEN WORKROOM	А		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
104	CONFERENCE ROOM	C1		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
105	HR	C1		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
106	HR	C1		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
107	STATION MANAGER	C1		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
108	CONTEMPLATION ROOM	A		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
109	MOTHER'S ROOM	A		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
110	MDF	A		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
111	JANITOR'S CLOSET	A		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
112	BREAK ROOM	A		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
112A	BREAK ROOM	A		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
112B	BREAK ROOM	A		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
114	TRAINING ROOM	A		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
114A	TRAINING ROOM	C1		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
118	ASSOCIATE ENTRY	C1		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		
118A	ASSOCIATE ENTRY	C1		3'-0"	7'-0"	1 3/4"	BIRCH	PLAIN SLICED	TIMELY	ALUMATONE		

VISUAL DOOR TYPE

EXISTING & NEW EXTERIOR WINDOWS:
INSULATED TEMPERED VISION GLASS
U-FACTOR - 0.28
SHGC - 0.22

EXISTING EXTERIOR DOORS: U-FACTOR - 0.5



HARDWARE SCHEDULE

DOOR NOTES

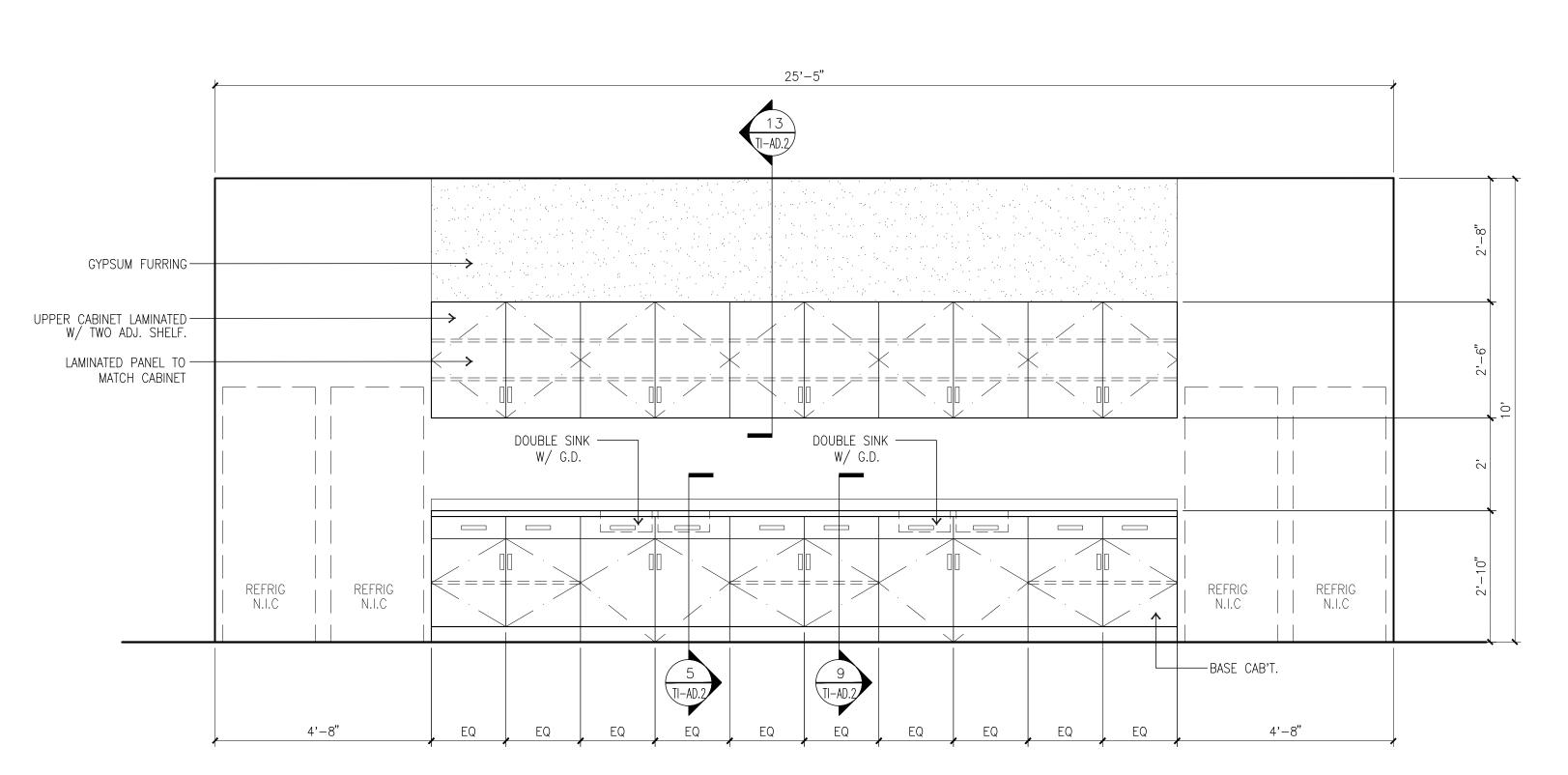
- 1. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- 2. NOT USED
- 3. TYPE OF LOCK OR LATCH
 EXIT DOORS SHALL BE OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR AND SPECIAL
 KNOWLEDGE OR EFFORT BY PANIC HARDWARE OR LEVER HARDWARE
 EXCEPTION: IN GROUP B OCCUPANCIES, KEY LOCKING HARDWARE MAY BE USED ON THE MAIN EXIT
 WHEN THE MAIN EXIT CONSISTS OF A SINGLE DOOR OR PAIR OF DOORS IF THERE IS A READILY VISIBLE,
 DURABLE SIGN ON OR ADJACENT TO THE DOOR STATING "THIS DOOR TO REMAIN UNLOCKED WHEN
 THE BUILDING IS OCCUPIED" THE SIGN SHALL BE IN LETTERS NOT LESS THAN 1" HIGH ON A CONTRASTING
 BACKGROUND.
- 4. DEADBOLTS SHALL CONTAIN HARDENED INSERTS OR EQUIVALENT.
- 5. STRAIGHT DEADBOLTS SHALL HAVE A MIN. 1" THROW WITH A MIN. 5/8" EMBEDMENT.
- 6. HOOK OR EXPANDING LUG DEADBOLTS SHALL HAVE A MIN. 3/4" THROW.
- 7. ALL LOCKS WHICH AUTOMATICALLY ACTIVATE 2 OR MORE DEADBOLTS SHALL EMBED MIN. 1/2" BUT NEED NOT EXCEED 1/4" INTO HOLDING DEVICE.
- 8. PIN TYPE HINGES ACCESSIBLE FROM THE EXTERIOR SHALL HAVE NON-REMOVABLE PINS.
 9. ACCESSIBLE MORTISE OR RIM TYPE CYLINDER LOCKS INSTALLED IN HOLLOW METAL DOORS SHALL BE
- PROTECTED BY CYLINDER GUARDS IF THE CYLINDER PROJECTS BEYOND THE FACE OF THE DOOR.
- 10. PROVIDE TWO PADLOCK AND HASP AT BOTH JAMBS OF EACH TRUCK DOOR.
- 11. EXITS SHALL BE ILLUMINATED AT ANY TIME BUILDING IS OCCUPIED, WITH LIGHT HAVING AN INTENSITY OF NOT LESS THAN 1 FOOT CANDLE AT FLOOR LEVEL.
- 12. ALL FIRE—RATED DOORS SHALL HAVE COMPLETE EQUALLY—RATED ASSEMBLIES INCLUDING FRAMES, SMOKE SEALS, CLOSERS, ETC.
- 13. ALL INTERIOR DOORS SHALL HAVE SILENCERS.
- 14. LOCATE HINGE SIDE OF ROUGH DOOR OPENING 4" FROM ADJACENT PERPENDICULAR WALL FRAMING UNLESS DIMENSIONED OTHERWISE.
- 15. MANUALLY OPERATED EDGE— OR SURFACE—MOUNTED FLUSH BOLTS AND SURFACE BOLTS ARE PROHIBITED. WHEN EXIT DOORS ARE USED IN PAIRS AND APPROVED AUTOMATIC FLUSH BOLTS ARE USED, THE DOOR LEAF HAVING THE AUTOMATIC FLUSH BOLTS SHALL HAVE NO DOOR KNOB OR SURFACE—MOUNTED HARDWARE. THE UNLATCHING OF ANY LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION.
- 16. ALL HARDWARE SHALL BE LEVER TYPE EXCEPT MAIN ENTRANCE PROPERLY LABELED, OR WHERE PANIC HARDWARE OCCURS.
- 17. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TOPROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPERATING HARDWARE.
- 18. THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLLD OF THE DOORWAY.
- 19. MAXIMUM EFFORT TO OPERATE EXTERIOR AND INTERIOR DOORS SHALL NOT EXCEED 5 POUNDS, WITH SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MINIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS.
- 20. WHEN THE DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LANDING EDGE OF THE DOOR.
- 21. ALL EXTERIOR DOORS OTHER THAN GARAGE DOORS SHALL BE SOLID-CORE NOT LESS THAN 1 3/8 INCHES THICK OR UTILIZE MULTIPLE-GLAZED PANELS CONSISTING OF NOT LESS THAN DUAL PANE
- 22. ALL FREEZER ROLL UP/DOOR WILL HAVE WINDOW.
- 23. DOCK DOORS. PROVIDE OVERHEAD SLIDE BOLT AT 54" A.F.F. TO CLEAR PROTECTOR.
- 24. ALL STOREFRONT AND MAN DOORS TO BE KEYED TO A SINGLE PROLOGIS MASTER. KEY TO BE PROVIDED BY PROLOGIS
- 25. NO EXTERIOR HARDWARE ON WAREHOUSE MAN DOORS EXCEPT AT RAMPS, UTILITY ROOMS AND ONE DOOR NEAR CENTER OF DOCK. THUMB TWIST BOLT WITH LEVER ACTION HANDLE INTERIOR ONLY

FINISH SCHEDULE

RM.#	ROOM NAME	FLOOF		BASI			WAINS			MILLWORK		WALLS (pe	r true north)		CEILII	NG	REMARKS
		FIELD	ACCENT	MATERIAL	HT.	FIELD	HT.	ACCENT	HT.	MATERIAL	NORTH	EAST	SOUTH	WEST	FINISH	HT.	
FF	ICE AREA - FIRST FLOOR																
101	AMAZON HUB	SC-1	CPT-2	VB-3	4"						PT-1	PT-1	PT-1	PT-1	ACT-1	10'- 0"	CPT-2 Eentry mat at the entry door area(6'x9' size approx.) see plan for info.
102	HUB STAGING	SC-1		VB-3	4"						PT-1	PT-1	PT-1	PT-1	ACT-1	10'- 0"	
103	OPEN WORKROOM	CPT-1		VB-1	4"						PT-1	PT-1	PT-1	PT-1	ACT-1	10'- 0"	
104	CONFERENCE ROOM	CPT-1		VB-1	4"						PT-1	PT-1	PT-3	PT-1	ACT-1	10'- 0"	Provide continuous Chair Rail. See plans for info.
105	HR	CPT-1		VB-1	4"						PT-1	PT-1	PT-2	PT-1	ACT-1	10'- 0"	Provide continuous Chair Rail. See plans for info.
106	HR	CPT-1		VB-1	4"						PT-1	PT-1	PT-2	PT-1	ACT-1	10'- 0"	Provide continuous Chair Rail. See plans for info.
107	HR	CPT-1		VB-1	4"						PT-1	PT-1	PT-2	PT-1	ACT-1	10'- 0"	Provide continuous Chair Rail. See plans for info.
108	CONTEMPLATION ROOM	CPT-1	*CT-3	VB-1	4"						PT-14	PT-14	PT-14	PT-15	ACT-1	10'- 0"	Wudu Area-Procelian Tile(CT-3), Non-Wudu Area-carpet(CPT-1)
109	MOTHER'S ROOM	CPT-1		VB-1	4"						PT-14	PT-15	PT-14	PT-14	ACT-1	10'- 0"	
110	MDF	SC-1		VB-3	4"						PT-1	PT-1	PT-1	PT-1	ACT-1	10'- 0"	CPT-2 Eentry mat at the entry door area(6'x9' size approx.) see plan for info.
111	JANITOR'S CLOSET	EPXY-1		VB-2	4"	FRP-1	4'-0"				PT-8	PT-8	PT-8	PT-8	ACT-1	10'- 0"	FRP/1 to 5'-0" A.F.F., P/1 above.
112	BREAKROOM	SC-2		VB-3	4"						PT-14	PT-15	PT-14	PT-14	ACT-1	10'- 0"	Provide microw ave base cabinets with Solid Surface Countertop at 34" a.f.f. (SS-1),
																	No doors or draw ers, No overhead mounted w all cabniets are required
																	Provide 48"W.open area below sinks for accessibility with solid surface removable skirt (PL-1)
																	Provide 8"metal stud furring behind base cabinets to 56 1/2"(microw ave shelf will sit on depth of furring)
																	Provide continuous 20"D.microw ave shelf full length of base cabinets at 58" a.f.f. (SS-1)
113	AMAZONE	SC-2		VB-3	4"						PT-14	PT-15	OPEN	PT-14	ACT-1	10'- 0"	
114	TRAINING ROOM	CPT-1		VB-1	4"						PT-1	PT-1	PT-3	PT-1	ACT-1	10'- 0"	Provide w ood chair rail at 36" a.f.f. (ST-1)
115	WOMEN'S RESTROOM - A	CT-3		CT-4	6"	CT-1	7'-2"	CT-2		SS-1, TP-1	PT-8	PT-8	PT-8	PT-8	GWB/ PT-8	9'- 6"	Provide continuous 24" D. Solid Surface countertop with under mount sinks(SS/1)
										<u> </u>							No doors or draw ers, No overhead mounted wall cabniets are required
116	WOMEN'S RESTROOM - B	CT-3		CT-4	6"	CT-1	7'-2"	CT-2		SS-1, TP-1	PT-8	PT-8	PT-8	PT-8	GWB/ PT-8	9'- 6"	Provide continuous 24" D. Solid Surface countertop with under mount sinks(SS/1)
										<i>'</i>							No doors or draw ers, No overhead mounted wall cabniets are required
117	CIRCULATION	SC-1		VB-3	4"						PT-1	PT-1	PT-1	PT-1	ACT-1	10'- 0"	
118	ASSOCIATE ENTRY	SC-1		VB-3	4"						PT-1	PT-1	PT-1	PT-1	ACT-1	10'- 0"	
	LOCKER AREA	SC-1		VB-3	4"						PT-15	PT-14	PT-14	PT-15	ACT-1	10'- 0"	
	MEN'S RESTROOM - A	CT-3	1	CT-4	6"	CT-1	7'-2"	CT-2		SS-1, TP-1	PT-8	PT-8	PT-8	PT-8	GWB/ PT-8	9'- 6"	Provide continuous 24" D. Solid Surface countertop with under mount sinks(SS/1)
	10 miles 10																No doors or draw ers, No overhead mounted wall cabniets are required
121	MEN'S RESTROOM - B	CT-3		CT-4	6"	CT-1	7'-2"	CT-2		SS-1, TP-1	PT-8	PT-8	PT-8	PT-8	GWB/ PT-8	9'- 6"	Provide continuous 24" D. Solid Surface countertop with under mount sinks(SS/1)
	The state of the s																No doors or draw ers. No overhead mounted wall cabniets are required
														1			
	1		+	+	+ +		+ +										

FINISH LEGEND

		I		T	ED 01/1/	FLOOD COATING		
	BASIS OF DESIGN	DESCRIPTION	RAL	COMMENTS		FLOOR COATING	CHAZED CDAZ	LAAUTODC AAUD CCDURRED DUBAR ELOORG
	ICAL CEILING TILE	a di vi soli			EPX-1	CONTRACTOR OF THE RESIDENCE OF THE RESIDENCE OF THE CONTRACTOR OF	SILVER GRAY	JANITORS AND SCRUBBER DUMP FLOORS
	ARMSTRONG	24" X 48"	-		EPX-2	SHERWINN WILLIAMS	STEEL GRAY	BATTERY CHARGING
ACT-2	ARMSTRONG	24" X 24"	-	NOTUCED	VCT-1	VINYL FLOOR TILE ARMSTRONG	IMPERIAL TEXTURE STANDARD EXCELON -	
ACT-4	ARMSTRONG	24" X 24"	-	NOT USED	VCI-1	ARIVISTRUNG	#51810 'WASHED LINEN'	
ACT-4	ARMSTRONG	24" X 48" FIRE RATED	-	FORMATIONIC CELLING CLOUD	VINYLI	DACE	#21910 MYZHED FINEIN	
ACT-5	ARMSTRONG	24" X 24" GRID, SQUARES/RECTANGLES	-	FORMATIONS CEILING CLOUD	VB-1	JOHNSONITE	4" COVE BASE #47 'BROWN'	
INITERIO	DAINT				VB-1 VB-2	JOHNSONITE	4" COVE BASE #47 BROWN 4" COVE BASE #23 'VAPOR GRAY'	
INTERIO DT 4	BENJAMIN MOORE	#2121-70 'CHATILLY LACE'	0016	CENTERAL WALL COLOR FOR OFFICE RECOUNTING ANACARE FIRST AIR	VB-2 VB-3	JOHNSONITE	4" COVE BASE #48 'GREY'	
PT-1	BENJAMIN MOORE	#2121-70 CHATILLY LACE	9016	GENERAL WALL COLOR FOR OFFICE, RECRUITING, AMCARE, FIRST-AID,		ITION STRIPS	4 COVE BASE #48 GRET	
				TRAINING, UTILITY, STORAGE, ENTRY VESTIBULES, ENCLOSED STAIRS, ERC, ELECTRICAL ROOM, & MAIN ENTERANCE	TS-1	JOHNSONITE	RRS-XX-C, #47 BROWN	
DT 2	BENJAMIN MOORE	#AC-17 'SEA PINE'	460 60 05		TS-2	JOHNSONITE	EG-XX-H, #47 BROWN	
PT-2	BENJAMIN MOORE	#AC-17 SEA PINE #AF-375 'RATTAN'	090 70 30	AND THE PROPERTY OF THE PROPER	TS-3	JOHNSONITE	CTA-XX-K, #47 BROWN	
PT-3		#2140-60 'MOONSHINE'	9002	HM DOORS & FRAMES	TS-4	JOHNSONITE	RRS-XX-C, #23 VAPOR GRAY	
PT-5	BENJAMIN MOORE SHERWINN WILLIAMS	ACRYLIC DRYFALL - COLOR TO BE FLAT WHITE	9002	EXPOSED STRUCTURE AND DUCTWORK; LOCKERS CEILING	TS-5	SCHLUTER	RENO-V	STAINLESS STEEL
	SHERWINN WILLIAMS	ACRYLIC DRYFALL - COLOR TO BE FLAT WHITE ACRYLIC DRYFALL - COLOR TO BE FLAT BLACK	-	NOT USED	TS-6	SCHLUTER	RENO-U	STAINLESS STEEL
PT-6	BENJAMIN MOORE		100 70 05	C-97-20-33 M-07-79-30-	TS-7	JOHNSONITE	EG-XX-H, #48 GREY	STATINLESS STEEL
PT-7	BENJAMIN MOORE	#AC-26 'OZARK SHADOWS'	100 /0 05	ACCENT WALL IN AMCARE OFFICE & AMCARE WAITING ROOM; DEMARC	CARPE		EG-XX-11, #48 GRE1	
DT 0	CLIEDVALININI VALILLIANAC	EDOVY SEMI-CLOSS COLOR MATCHINT 1/	9016	ROOM DOOR & FRAME; MDF DOOR & FRAME	CPT-1		STYLE: BLOG NUMBER: 5A125 COLOR: GRANITE	
PT-8	SHERWINN WILLIAMS	EPOXY - SEMI GLOSS, COLOR MATCH 'PT-1'	9016	MAIN ENTRY; ALL RESTROOMS, JANITORS, IDF & SHOVEL CLOSETS;	CP1-1	SHAW	NUMBER: 25500	
				CORRIDORS; WAREHOUSE SIDE OF ALL PARTITION, PT-8 UP TO 12' A.F.F.	CPT-2	MATWORKS	DIAMOND MATT II.: 'CHARCOAL'	DIRECT GLUE DOWN IN SLAB RECESS WITH SCHLUTER SCHIENE TRIM
				AND PT-1 FROM 12' TO DECK AT LEVEL 1 AND PT-8 FULL HEIGHT AT ALL OTHER LEVELS	CPT-3		FRAILER #5MDN4 'BLACK'	DIRECT GLOE DOWN IN SIAB RECESS WITH SCHLOTER SCHIENE TRIIVI
DT O	BENJAMIN MOORE	SAFETY YELLOW	1010	COLUMNS, RAILS, TOE PLATES, FIRE RISER PROTECTION; INTERIOR SIDE OF	CPT-4	The state of the s	STYLE: TERRAIN II NUMBER:	QUARTER TURN TILE LAYOUT
PT-9	BENJAMIN MOORE	SAFETY YELLOW	1018	WAREHOUSE EXIT DOORS AND FRAMES	CF 1-4	MANNINGTON	COLOR: CATCHER NUMBER: 34012	QUANTER TORN THE DATOUT
DT 10	BENJAMIN MOORE	SAFETY RED	3024	COLUMNS, SPRINKLER STAND PIPES AND INTERIOR SIDE OF WAREHOUSE	SOLID	SURFACE COUNTERTOP	COLON, CATCHER NOIVIBER, 34012	
PT-10	BENJAMIN MOORE	SAFETT RED	3024		SS-1	CORIAN	COLOR - 'SILVER BIRCH'	1/2" SOILD SURFACE COUNTERTOP W/ UNDERMOUNT SINK. PROVIDE 1/2"
DT 11	BENJAMIN MOORE	WHITE		EXIT DOORS & FRAMES COLUMNS	33-1	COMAN	COLON - SILVEN BINCTI	SOLID SURFACE APRON AND 4" SIDE & BACKSPLASH.
PT-11	SHERWINN WILLIAMS	SW4031 'STRUCTURAL GRAY'	7037	INTERIOR STAIR STRUCTURE	SS-2	CORIAN	COLOR - 'OAT'	1/2" SOILD SURFACE COUNTERTOP W/ UNDERMOUNT SINK. PROVIDE 1/2"
PT-12	SHERWINN WILLIAMS		7044	NOT USED	33-2	CORIAN	COLOR- OAT	SOLID SURFACE APRON AND FULL HEIGHT BACKSPLASH.
PT-13	SHERWINN WILLIAMS	SW7016 'MINDFUL GRAY'		LOCKER ROOMS, BREAKROOM, VENDING, MOTHERS ROOM	DIASTI	C LAMINATE		SOLID SORFACE AFRON AND FOLL HEIGHT BACKSFLASH.
PT-14		SW7008 'ALABASTER'	9010 7038		PL-1	FORMICA	NATURAL CANVAS - #7022-58	
PT-15	SHERWINN WILLIAMS	SW7650 'ELLIE GRAY'	7038	ACCENT WALL FOR LOCKER ROOMS, BREAKROOM, VENDING, MOTHERS ROOM	PL-2	FORMICA	DOVER WHITE - #7197-58	
DT 16	SHERWINN WILLIAMS	SW6952 'BLUE CLICK'	240.90.20	BREAK ROOM CLOUDS	PL-3	FORMICA	ALMOND - #920-58	
	SHERWINN WILLIAMS	SW6958 'DYNAMIC BLUE'	260 40 45		PL-4	FORMICA	WHEAT STRAND - #6212-58	
PT-17	SHERWINN WILLIAMS	SW6898 'SOCIAL BUTTERFLY'	075 80 60	100000000000000000000000000000000000000	PL-5	FORMICA	NEUTRAL WEFT - #5875-58	
	SHERWINN WILLIAMS	SW7648 'BIG CHILL'	9018	BREAK ROOM CEILING	PL-6	FORMICA	STORM - #912-58	
PT-19 PT-20	BENJAMIN MOORE	#2149-70 'WHITE CHOCOLATE'	9010	NOT USED	PL-7	FORMICA	CARDBOARD SOLIDZ - #7813-58	
	SHERWINN WILLIAMS	SW6518 'SKI SLOPE'	9002	CAREER CHOICE CLASSROOM	PL-8	FORMICA	GRAPHITE - #837-58	
	SHERWINN WILLIAMS	SW6523 'DENIM'	5023	ACCENT WALL IN CAREER CHOICE CLASSROOM	PL-9	FORMICA	SARUM GREY - #2770-58	
	SHERWINN WILLIAMS	DRY ERASE	3023	ACCENT WALLTIN CAREER CHOICE CLASSROOM		ONTAL BLINDS	3ANOW GILL - #2770 30	
PT-23 PT-24	ARMSTRONG	SKY (SK)	-	REMOTE BREAK AT TRUCKER LOUNGE		LEVELOR	1" BLIND - COLOR SELECTED BY ARCHITECT	
PT-25	ARMSTRONG	TANGERINE (TG)	-	REMOTE BREAK AT TRUCKER LOUNGE	HB-2	HUNTER DOUGLAS	ROLLER SHADE – GLACIER SCREEN HD 1003 – 'BRONZE'	16' TALL CURTAIN WALLS AT THE OFFICE CORNERS/STOREFRONT
PT-26	ARMSTRONG	LAGOON (LA)	-	REMOTE BREAK AT TRUCKER LOUNGE		ALL PANEL	NOTEEN STIABLE - GEACIEN SCREEN TID 1003 - BROWZE	10 TALL CONTAIN WALLS AT THE OTTICE CONNERS/STOKE NOW
PT-27	BENJAMIN MOORE	FLAT WHITE	-	INTERIOR FACE OF CONCRETE PANELS		CRANE	EMBOSSED - #85 'WHITE'	PROVIDE ALL MOLDINGS & TRIM
		11 10 10 10 10 10 10 10	5012	ACCENT WALL AT MAIN ENTRY (FULL HEIGHT); 2' WIDE STRIPE AT OPEN		FOR CAB FINISHES	ENDOSSED - #65 WITTE	PROVIDE ALL MOLDINGS & TRIM
PT-28		RGB 0, 168, 255; PANTONE 2995 C 'PRIME BLUE"	2012	to the second se	EL-1	SCHINDLER	STAINLESS STEEL #4	DOOR AND FRAME
CEDARAL	WILLIAMS	<u> </u>		CUBICLE AREA 1' FROM CEILING	EL-1 EL-2	SCHINDLER	STAINLESS STEEL #4 STAINLESS STEEL #4	HANDRAIL
CERAMIC CT 1		4" V 4" MALL THE : #0100 "MULTE!	T	MAREL HOO CROUT	10.00	SCHINDLER	STAINLESS STEEL #4 STAINLESS STEEL #4 W/ SPOT LED	CAB CEILING
CT 2		4" X 4" WALL TILE: #0100 'WHITE'		MAPEL#00 GROUT	EL-3	SCHINDLER	WALL LAMINATE	TORONTO GREY
CT-2	DALTILE 'LIQUITE MONDE'	4" X 4" WALL TILE: Q012 'MUSTARD'		MAPEL#11 ISALIA DA RELOF/ CROUT	VCT-1		IMPERIAL TEXTURE STANDARD EXCELON -	FLOORING
CT-3	DALTILE 'HOUTE MONDE'	12" X 24" FLOOR TILE '#HM05		MAPEL#11 'SAHARA BEIGE' GROUT	VC1-1	DNIONTCIVINA		LOURING
CT-4	DALTILE 'HOUTE MONDE'	6" X 12" COVE BASE AND CORNER TRIM		MAPEI #11 'SAHARA BEIGE' GROUT			#51810 'WASHED LINEN'	
	CONCRETE	CEALED CONCRETE WITH CLEAR CEALER	T					
SC-1		SEALED CONCRETE WITH CLEAR SEALER						
SC-2		POLISHED CONCRETE WTH CLEAR SEALER						



INTERIOR CABINET ELEVATION @ WAREHOUSE BREAK ROOM #112 scale: 1/2" = 1'-0"



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Owner:



TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA



Civil: THIENES
Structural: HSA
Mechanical: RPM
Plumbing: RPM
Electrical: RPM

Landscape: HUNTER LANDSCAPE

Fire Protection:
Soils Engineer:

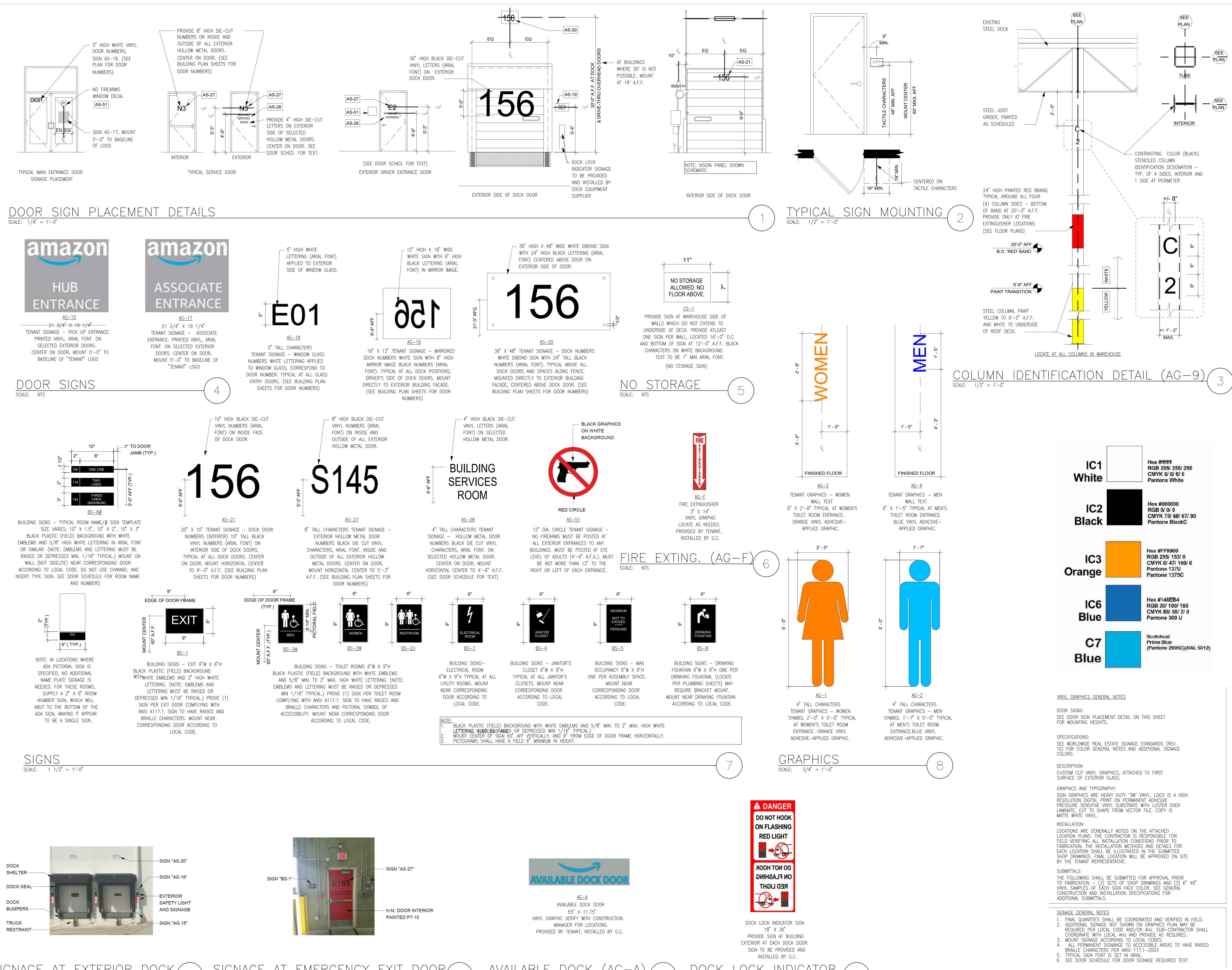


Title: Door and Hardware schedule

Project Number: 19436
Drawn by: ML
Date: 10/24/19
Revision:

Sheet:

TI-A5.1



architecture

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Owner:

Project:

TORRANCE

DCX 7

950 FRANCISCO ST.

TORRANCE, CA

Consultants:

Landscape: HUNTER LANDSCAPE

Structural:

Mechanical:

Plumbing:

Electrical:

Fire Protection:

Soils Engineer:

Project Number:

Drawn by:

Revision:

Sheet:

Date:

THIENES

RPM

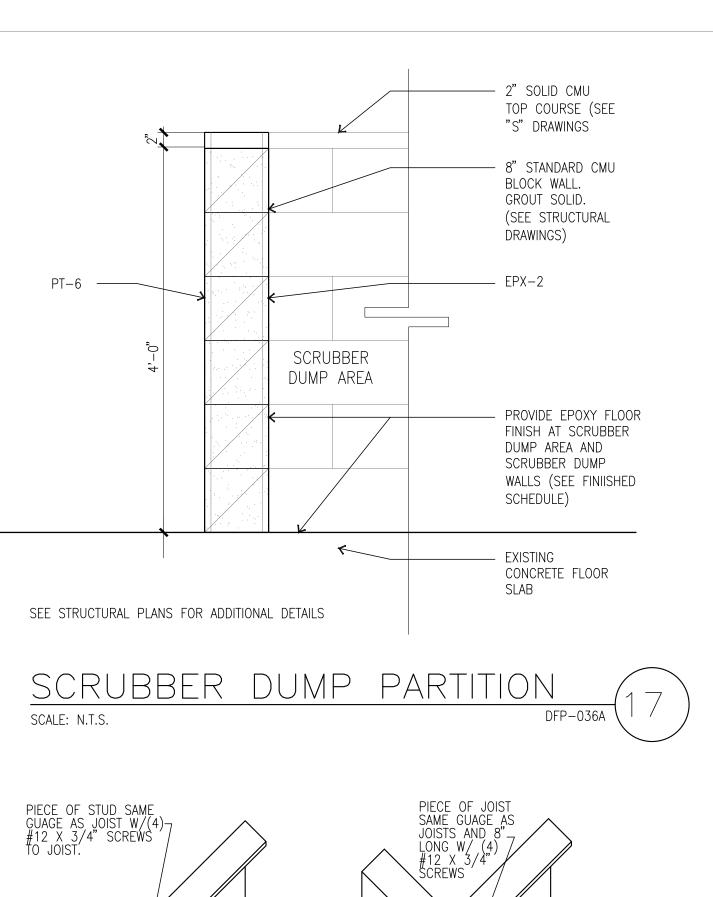
RPM

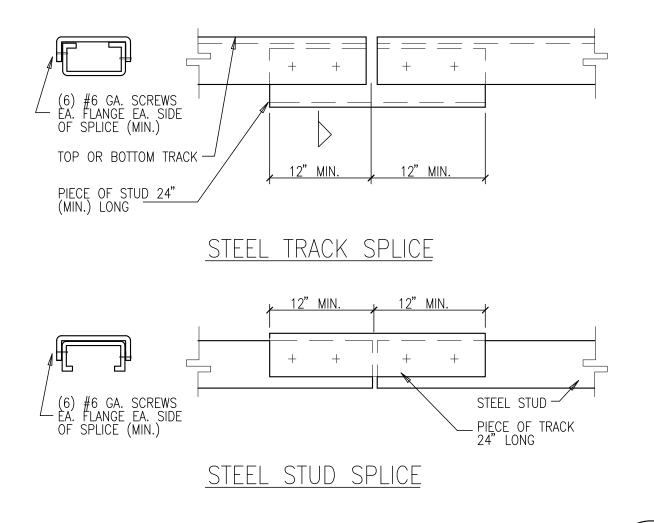
DETAILS

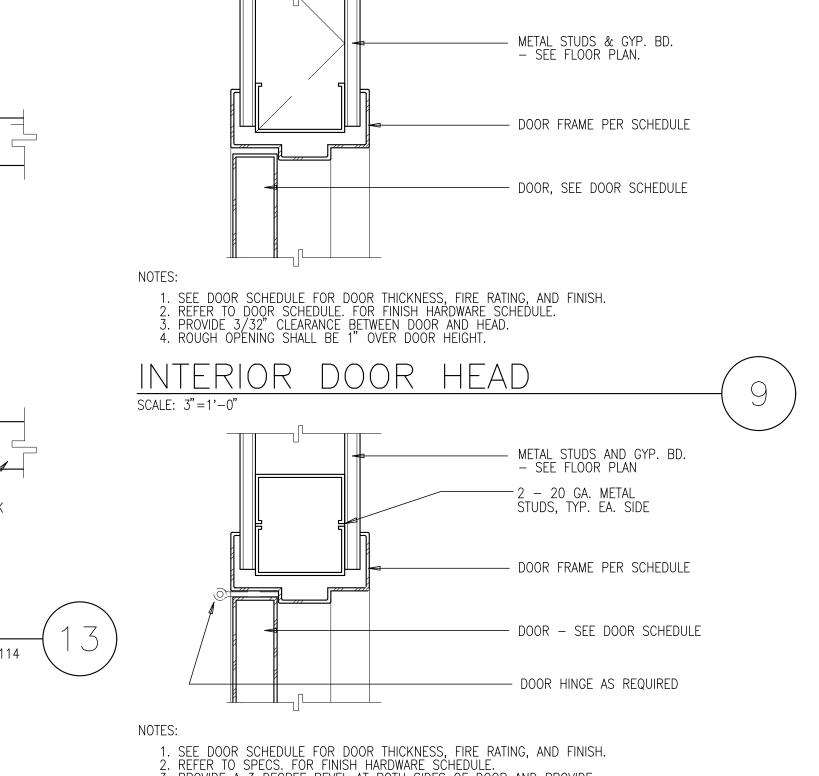
19436

10/24/19

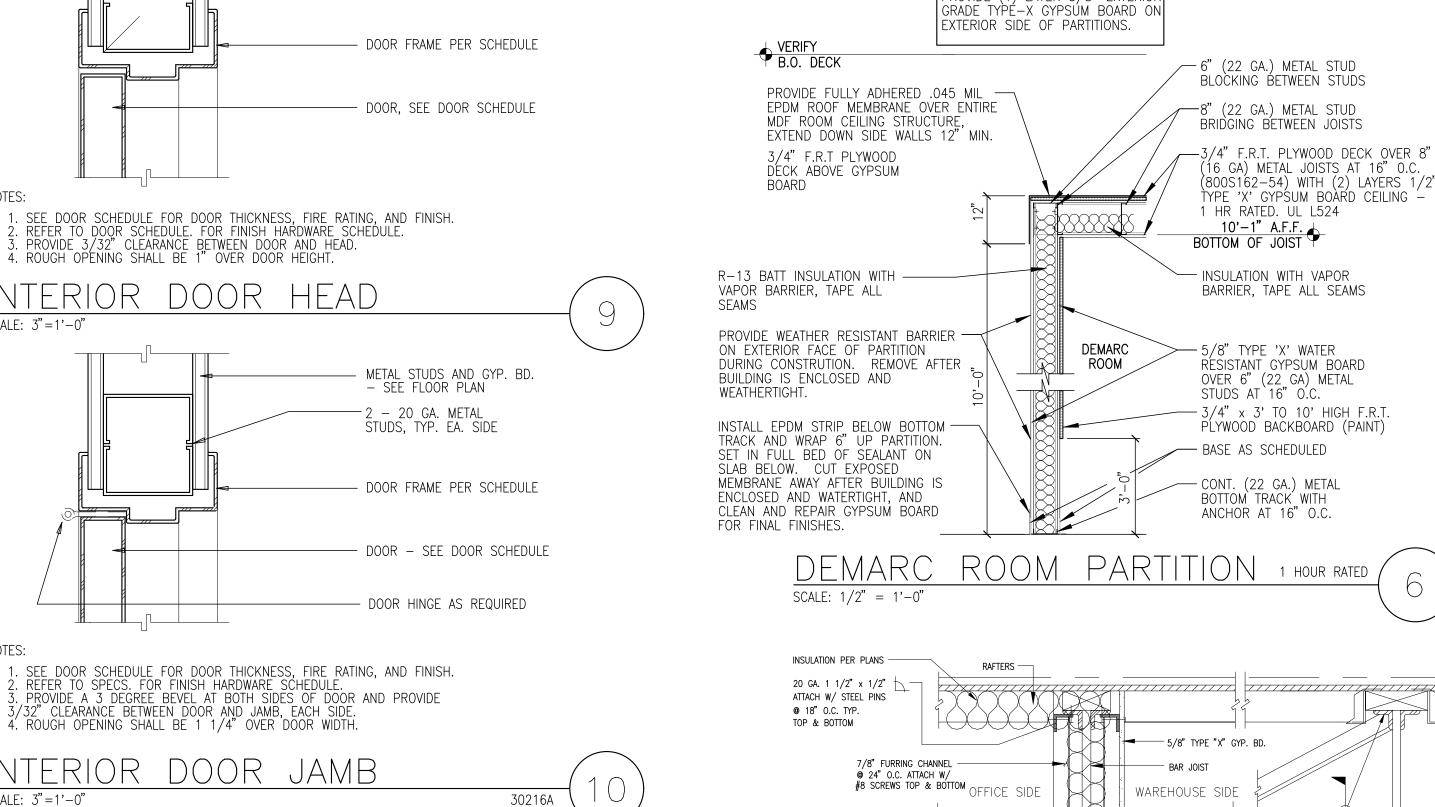
CAUTION: IF THIS SHEET IS NOT A 30" X 42" IT IS A REDUCED PRINT







SCALE: 3'' = 1' - 0''



ALTERNATE TO WELDING:

ALTERNATE 1/8 1 2" -12 / 1/8 1 1 1/8 1 1/8 1/2" -12

3" DEEP 16 GA. CONT. TRACK — WITH VERTICAL SLOTTED HOLES WITH 2-#8 SCREWS AT 24" O.C. TRACK TO BLOCKING

OFFICE SIDE

METAL STUD BLOCKING -

USE 5/8" DIA. A307 WITH

WASHER AS REQUIRED AT

INSULATION PER PLANS -

SPECIAL PROJECT NOTE-

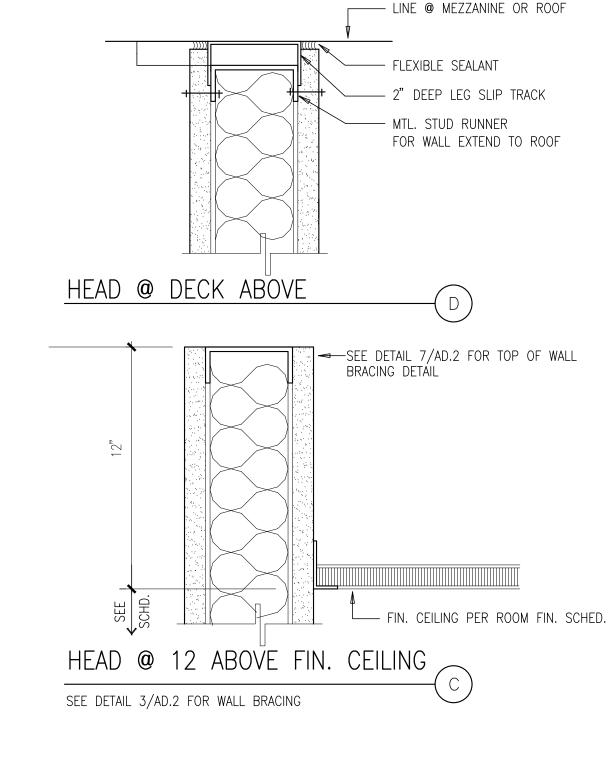
PROTECT DEMARK ROOM

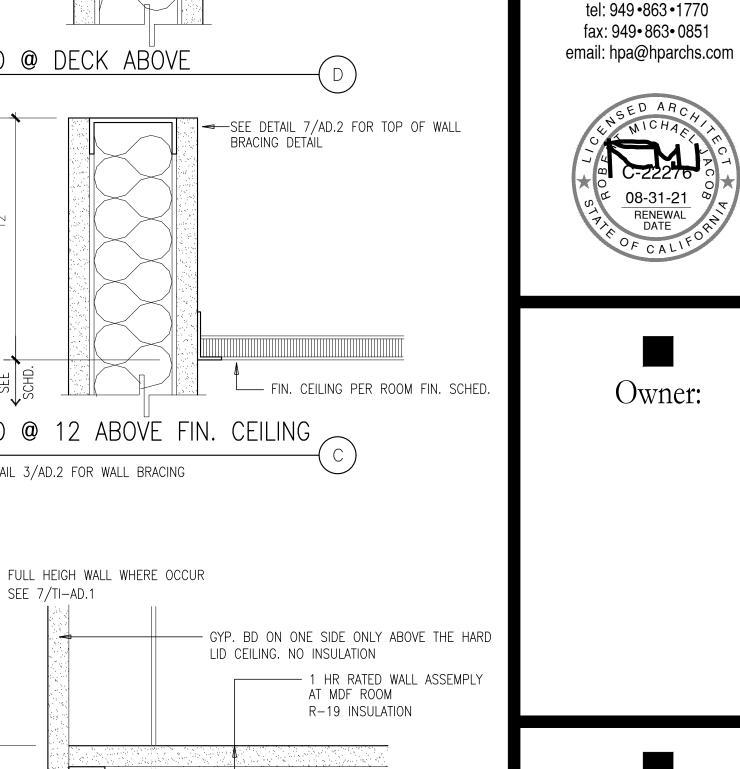
CONSTRUCTION (TYP.).

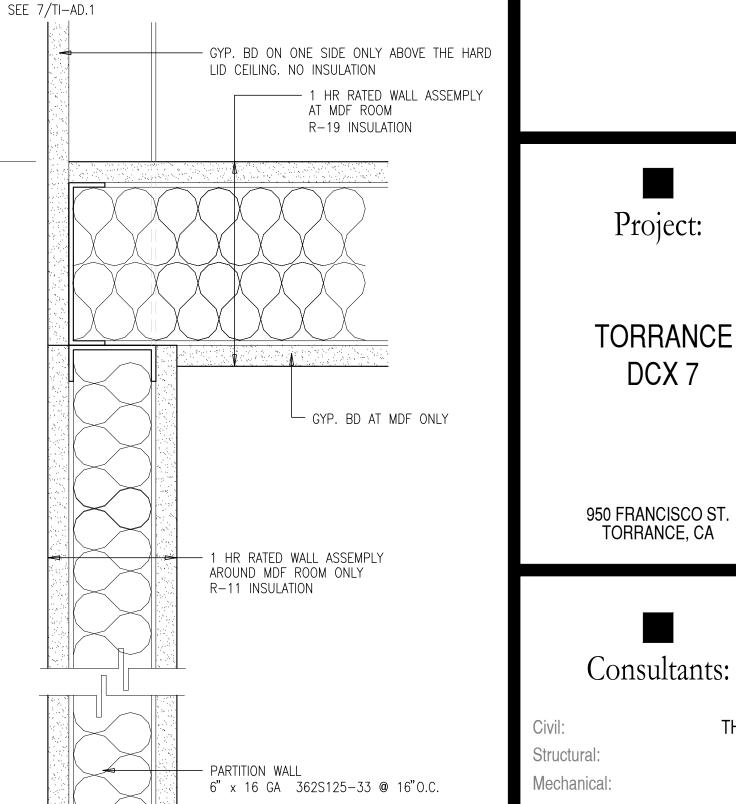
STRUCTURE AND FINISHES FROM

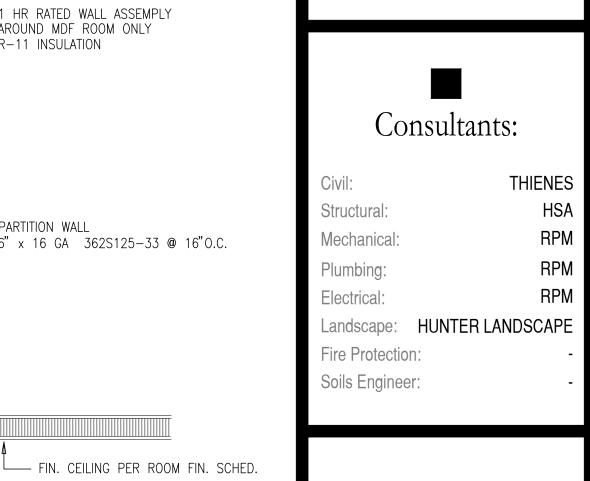
WEATHER DURING SHELL BUILDING

PROVIDE (1) LAYER 5/8" EXTERIOR







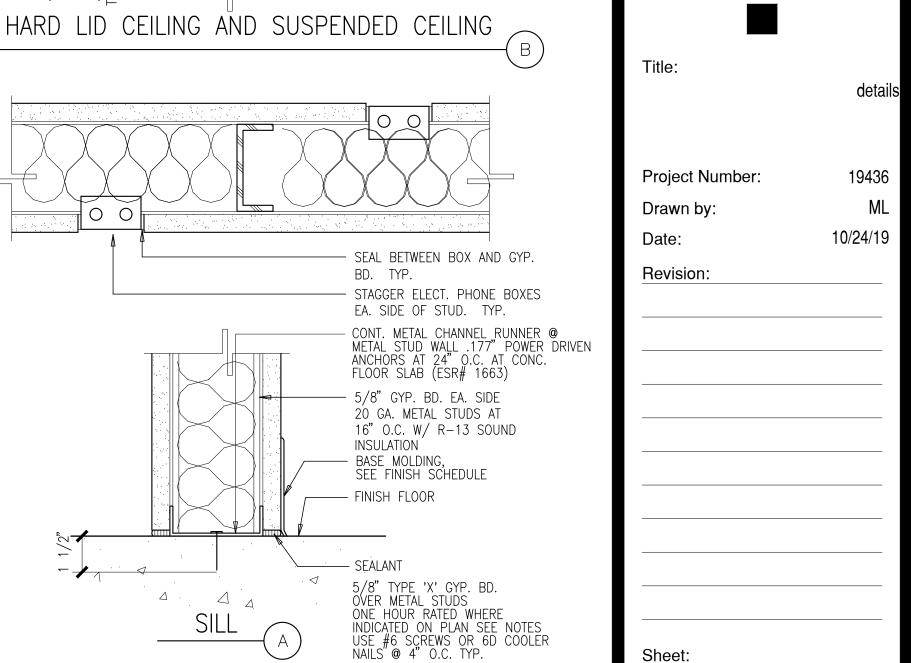


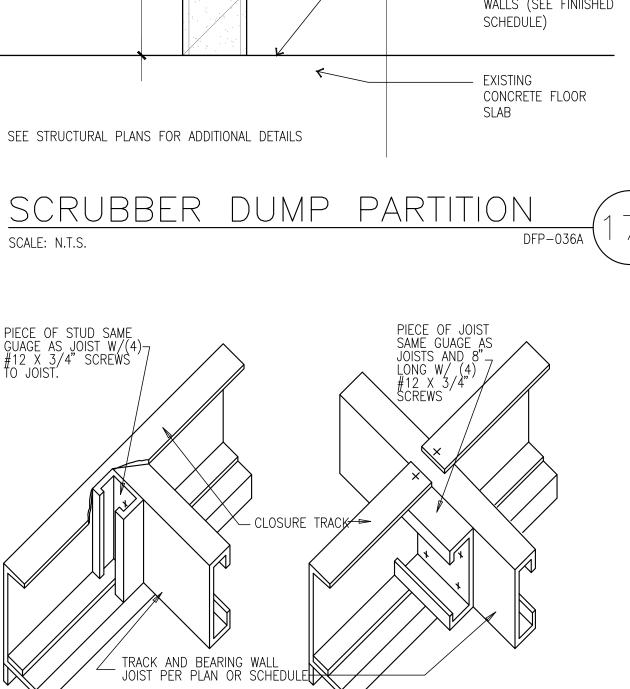
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#100 irvine, ca





BEARING WAL

MAXIMUM PARTITION HT.

1. STEEL STUDS SHALL BE MANUFACTURED BY A SSMA

MEMBER IN CONFORMANCE WITH ICC ER 4943-P.

2. STEEL STUDS SHALL BE OF 33 KSI STEEL EXCEPT

3. DRYWALL FINISH IS BOTH SIDES OF WALL OR MUST

16 GA. AND THICKER SHALL BE 50 KSI STEEL

BE BLOCKED/STRAPPED PER DETAIL '5'.

12'-1"

17**'**–5"

39'-9"

16"

NOTE: MIN. 3 1/2" MIN. BEARING AND INTERIOR CONDITION.

MAXIMUM PARTITION HT.

24"

9'-8"

15'-3"

_

STUD CONDITION

CONDITION

NOTE: MIN .1 1/2" MIN. BEARING AND EXTERIOR (END) CONDITION.

PARTITION SCHEDULE

(YIELD STRENGTH).

24

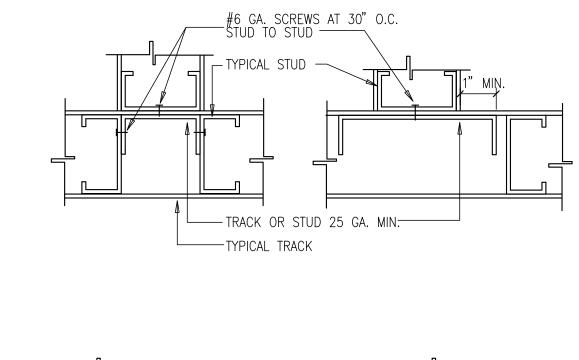
28

32

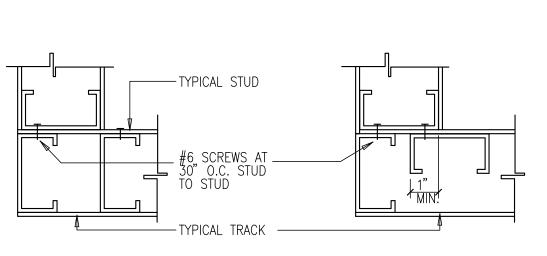
362S125-18

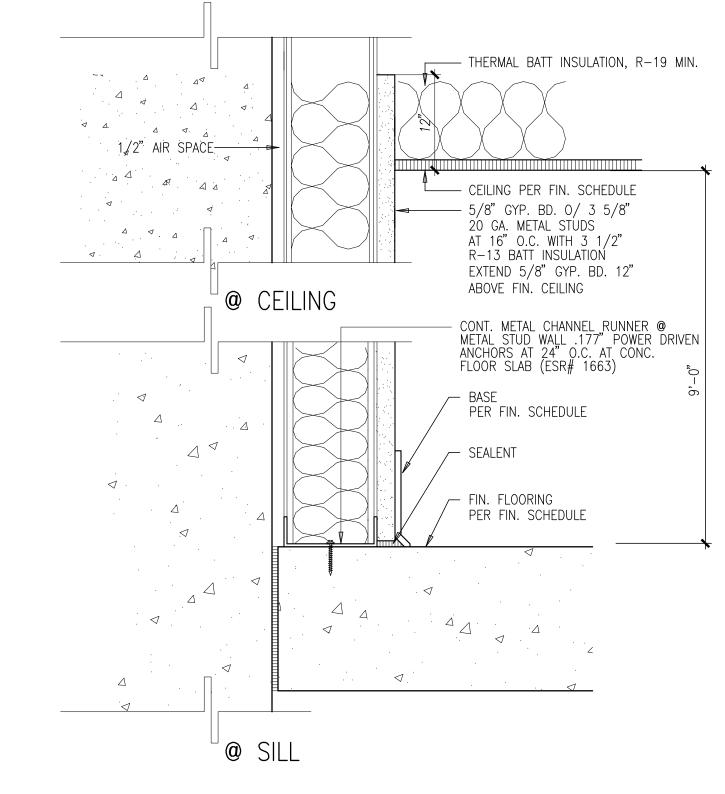
362S125-33

600S125-33



SCALE: NONE





30' MAX. TO

FURRING WALL DETAIL

NEXT CONTROL JOINT NEXT CONTROL JOINT

1. CONTROL JOINTS SHALL BE INSTALLED AT MAXIMUM 30 FEET O.C. BOTH WAYS

CONTROL JOINTS ARE INSTALLED AT THE CORNERS. NO FIRE RATED CONDITION

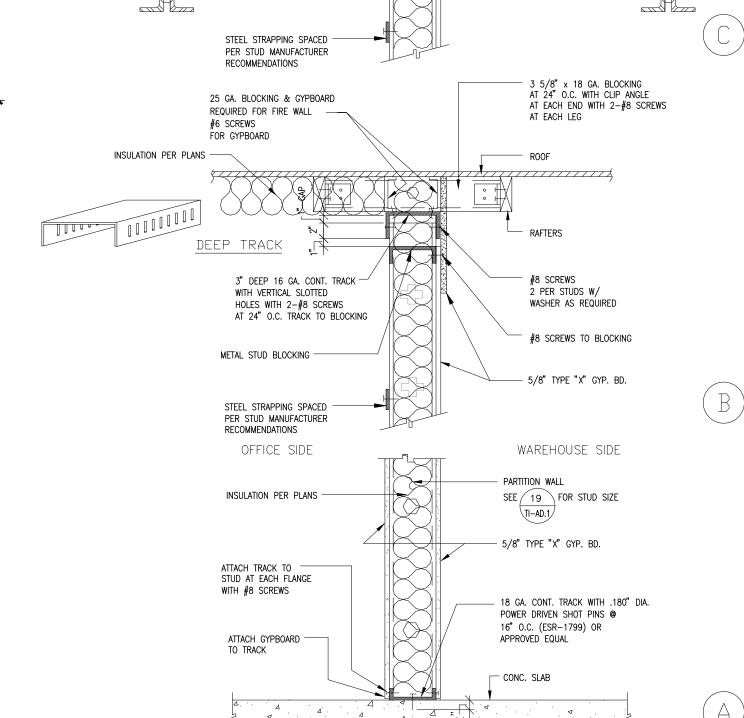
NEXT CONTROL JOINT NEXT CONTROL JOINT

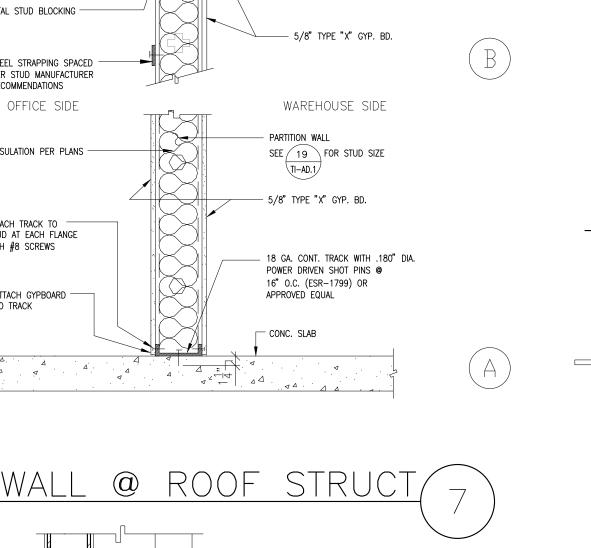
30' MAX. TO

2. BOARD JOINTS SHALL NOT OCCUR WITHIN 12" OF THE CORNERS OF DOOR FRAMES UNLESS

30' MAX. TO

30' MAX. TO





3/16

- ANGLE 3" x 3" x 3/16" BRACE AT 8'-0" O.C. STAGGER

#6 SCREWS TO CONT. TRACK

- 5/8" TYPE "X" GYP. BD.

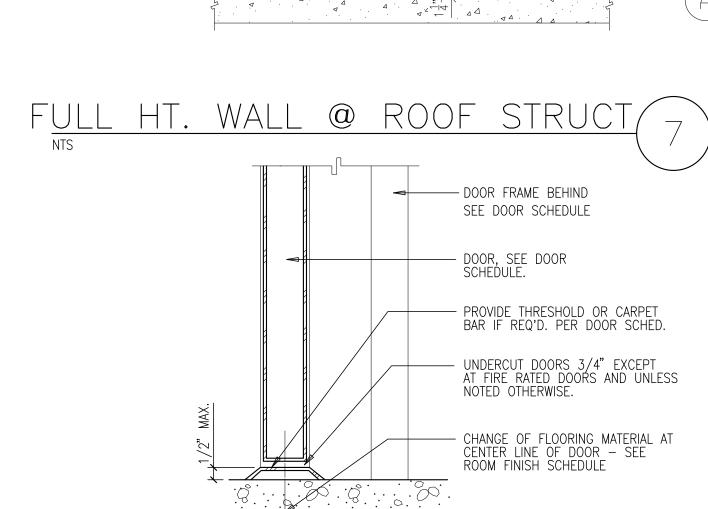
BLK'G W/ CLIP ANGLE © EA. END OR 4 x BLK'G

— 2 x SUB-PURLINS AT 24" O.C.

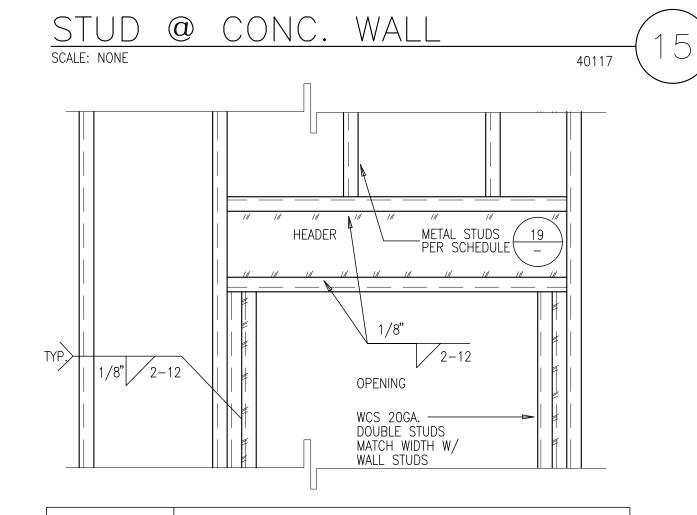
WAREHOUSE SIDE

--- #8 SCREWS TO BLOCKING

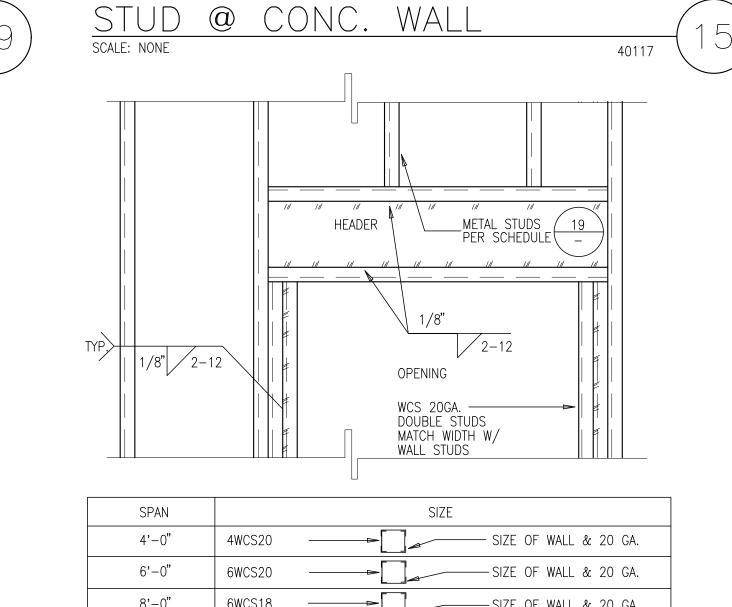
BAR JOIST -

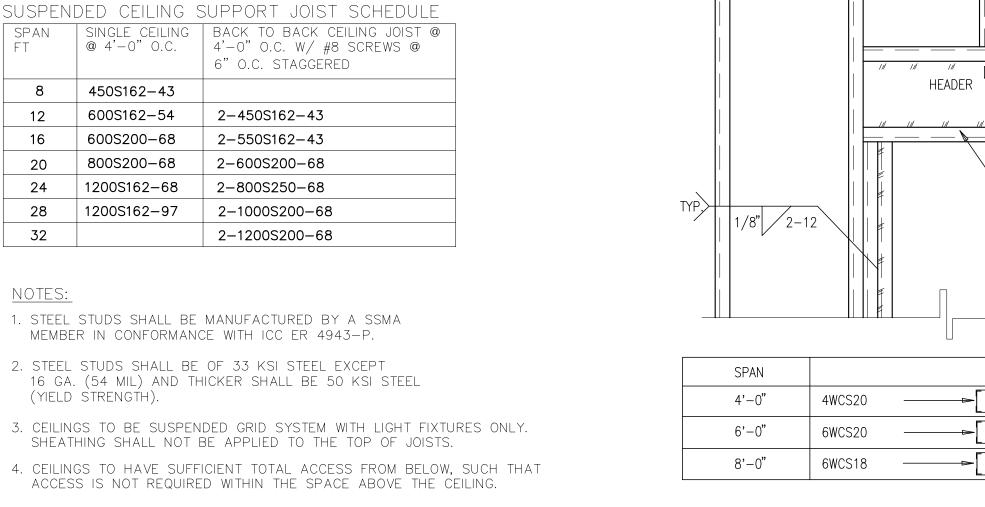


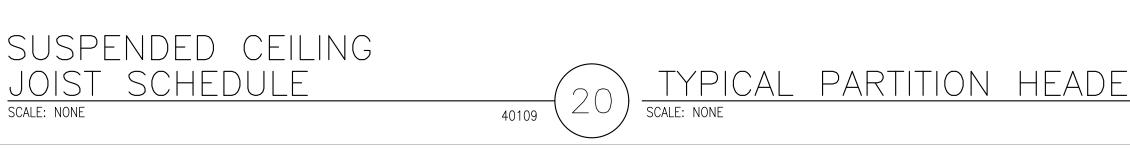
NOTES: 1. SEE DOOR SCHEDULE FOR DOOR THICKNESS, FIRE RATING, AND FINISH.



TYP 1/8" 2-12	HEADER METAL STUDS PER SCHEDULE 1/8" 2-12 OPENING WCS 20GA. DOUBLE STUDS MATCH WIDTH W/ WALL STUDS
SPAN	SIZE
4'-0"	4WCS20 SIZE OF WALL & 20 GA.
6'-0"	6WCS20 SIZE OF WALL & 20 GA.









2. REFER TO CBC SECTION 720 AND TABLE 720.1 FOR FIRERESISTIVE STANDARDS WHERE REQ. ON PLAN 3. USE ONLY #6 SCREWS SCALE: 3'' = 1'-0''SCALE: 3'' = 1' - 0''

CAUTION: IF THIS SHEET IS NOT A 30" X 42" IT IS A REDUCED PRINT

SILL

1. SEE FLOOR PLANS FOR LOCATION OF WALL INSULATION.

40111

40116

1/2" FILL W/CAULKING TYP. BOTH SIDE

SUPERIOR No. 53 20GA. DEFLECTION

0.177" 0 X 1 1/2" LONG SHOT PINS W/ METAL WASHER @ 24" O.C. TO

GYP. BD. AS REQUIRED - SEE FLOOR PLAN

TRACK OR APPROVED EQUAL

0.177" SHOT PINS @ 24" O.C. TRACK TO EACH STUD

- CONCRETE WALL

#10 SCREW

-362T18 CONT. TRACK

ON HOUR RATED WALL

30216A

GYPSUM BD. CONTROL JOINT EA.

TYP. MTL. STUD WALL ASSEMBLY PER WALL TYPE LEGEND

- WALL INSULATION WHERE OCCURS

(THERMAL OR ACOUSTIC)

- INSULATION FILL AT JOINT

ADDITIONAL STUD @ OPENINGS

GYPSUM BD. CONTROL JOINT EA.

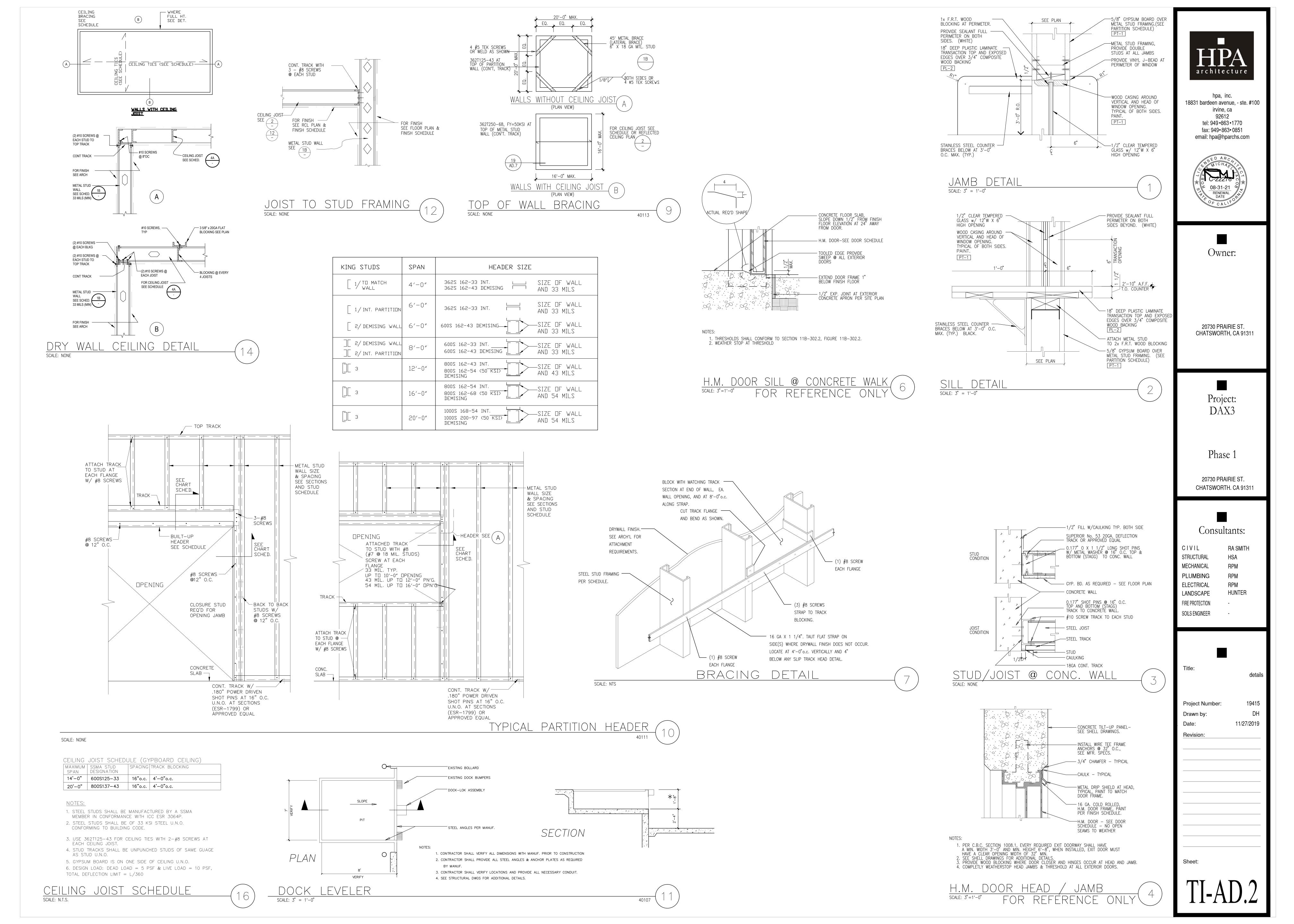
1 5/8" DRYWALL SCREWS 24"

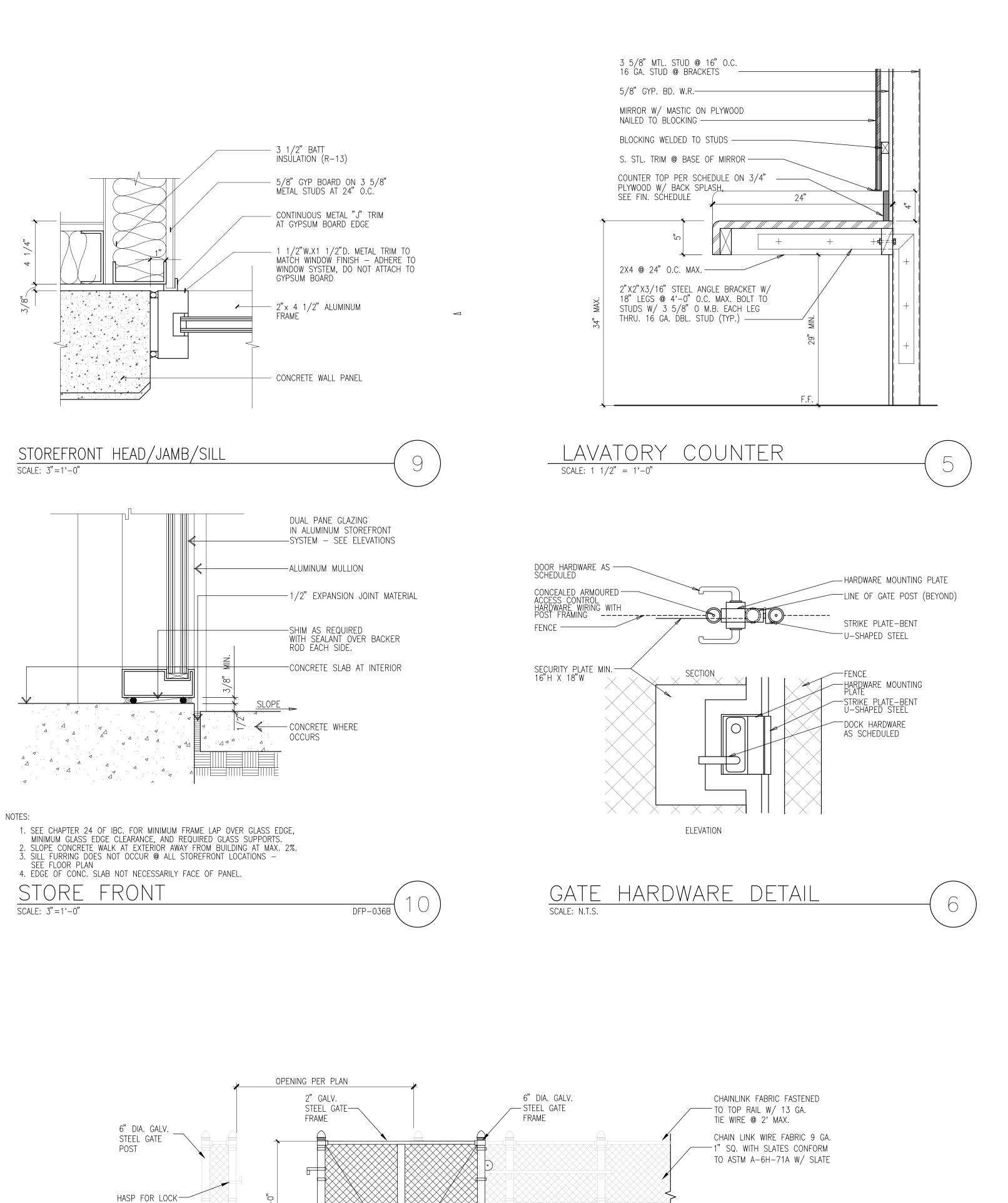
WALL INSULATION WHERE OCCURS

⁻ 2 LAYER 5/8" TYP. "X" GYP. BD.

(THERMAL OR ACOUSTIC)

- STUD PER SCHEDULE





____1 5/8" O.D. BRACE

— 3" MIN. COVER

FOOTING FOR GATE POST

SCH 40 PIPE

— CONC. FOOTING

12" DIA. AND 3'-8" DEEP

SCALE: N.T.S.

TRUSS ROD WITH TURNBUCKLE

 \neg ii \bigcirc

---- CANE BOLT

— CONC. FOOTING

6" DIA. AND 12" DEEP

____ 3" MIN.

WIND VELOCITY = 110 MPH

APPROVAL PRIOR TO FABRICATION

WELD AND GRIND SMOOTH ALL JOINTS

EXPOSURE = C

MIN. 3/8" DIA. TRUSS _____ ROD BRACING TYP.

CONC. FOOTING TO RESIST 110 MPH WIND LOAD, TYP. SEE DETAIL A

IN THE STATE OF CALIFORNIA AND SUBMITTED FOR ARCHITECT'S AND BUILDING DEPARTMENT.

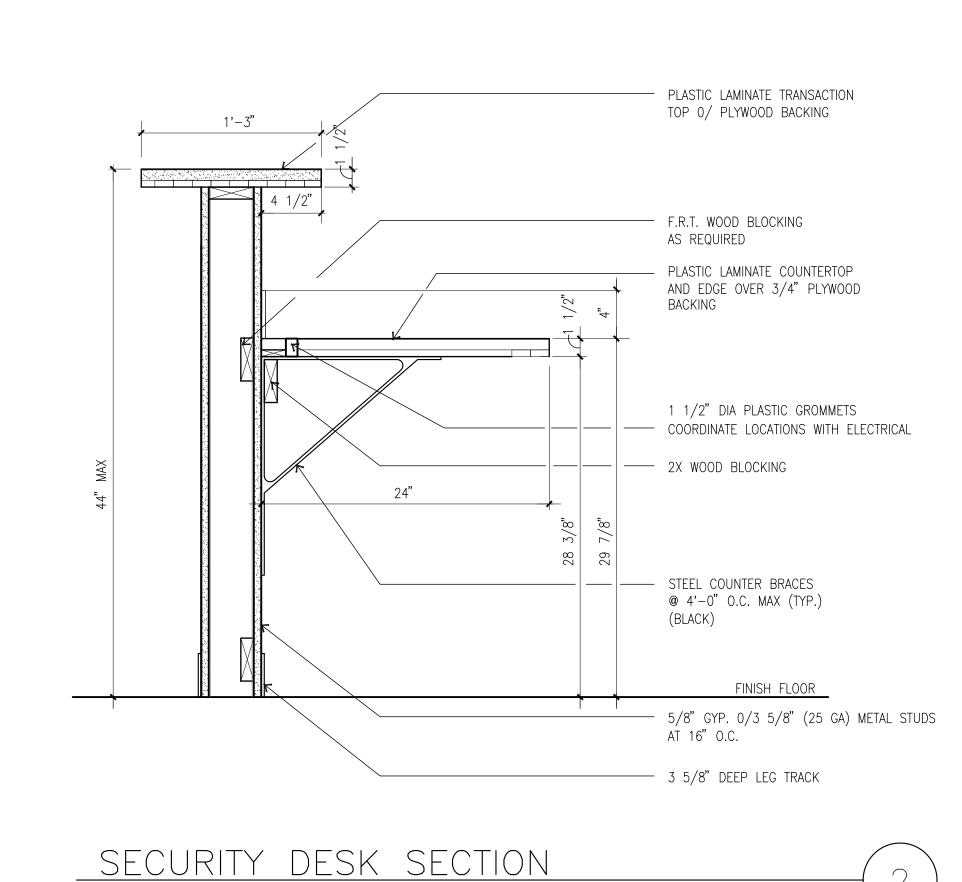
NOTES: CHAINLINK FENCE AND GATE CONTRACTOR TO DESIGN AND DETAIL ALL

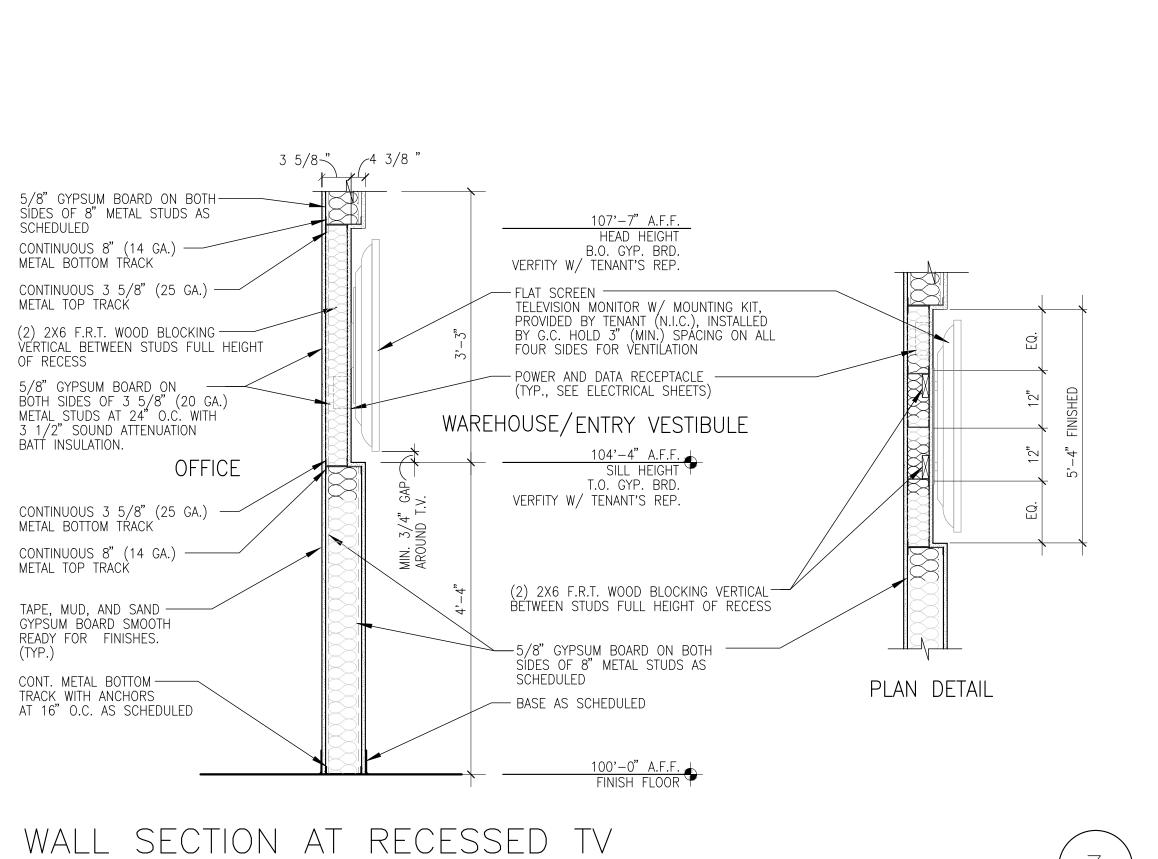
FENCE AND SLIDING GATE

SCALE: 1/8"=1'-0"

ALL CALCULATIONS WILL BE DONE BY REGISTERED STRUCTURAL ENGINEER

MEMBERS AND CONNECTIONS IN ACCORDANCE WITH





HPA architecture

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Owner:

Project:

TORRANCE DCX 7

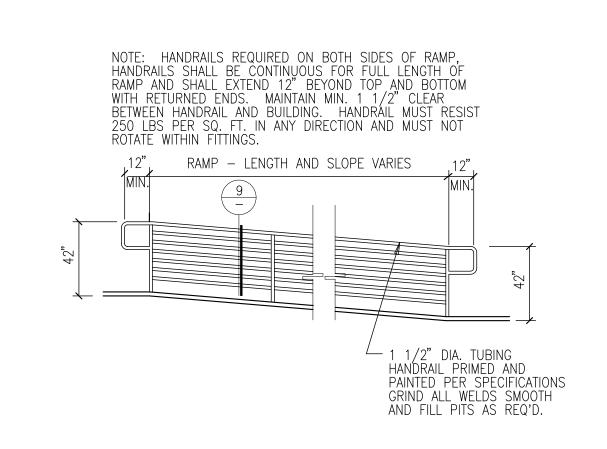
950 FRANCISCO ST. TORRANCE, CA

Consultants:

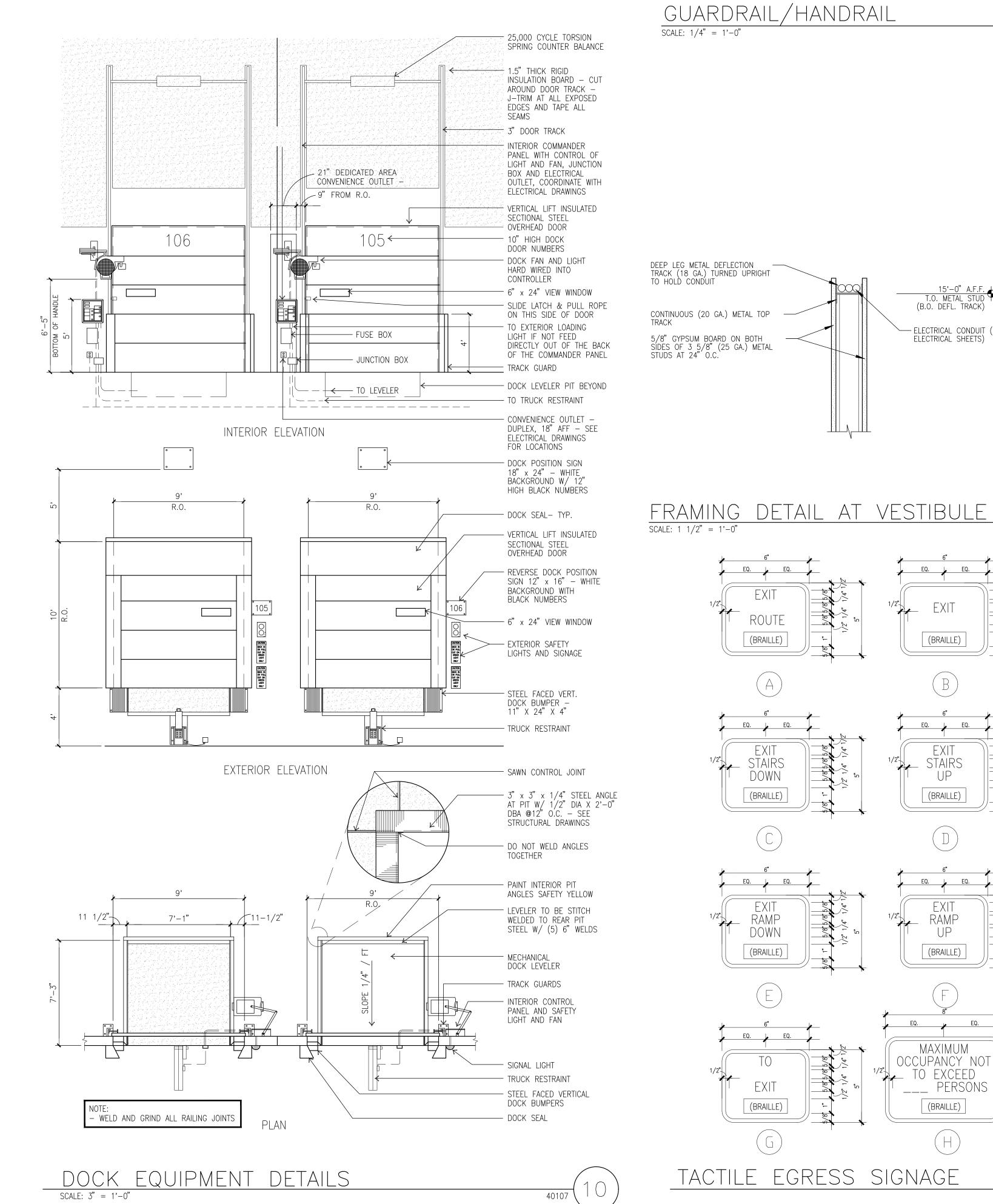
Civil: THIENES
Structural: HSA
Mechanical: RPM
Plumbing: RPM
Electrical: RPM
Landscape: HUNTER LANDSCAPE
Fire Protection: Soils Engineer: -

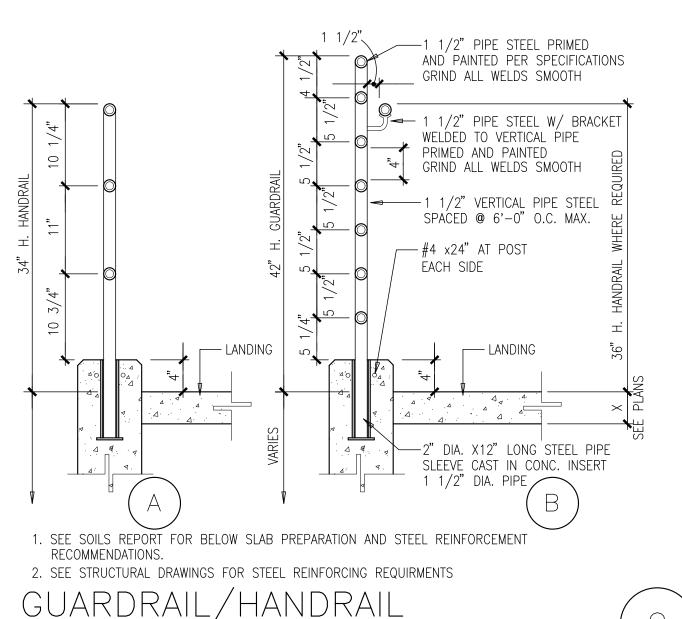
Title:	details
Project Number:	19436
Drawn by:	ML
Date:	10/24/19
Revision:	
Sheet:	

TI-AD.3



TYPICAL GUARDRAIL @ RAMP SCALE: 1/4" = 1'-0"





15'-0" A.F.F. T.O. METAL STUD (B.O. DEFL. TRACK)

— ELECTRICAL CONDUIT (SEE

ELECTRICAL SHEETS)

(BRAILLE)

STAIRS

UP

INSULATION

(BRAILLE)

RAMP UP

(BRAILLE)

SCALE: 1/4" = 1'-0"

ROUTE

(BRAILLE)

EQ. EQ.

STAIRS

DOWN

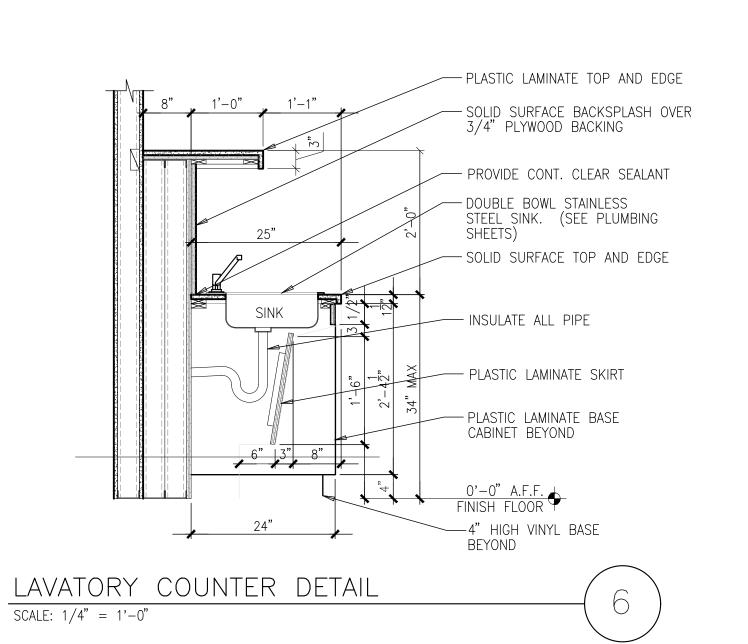
(BRAILLE)

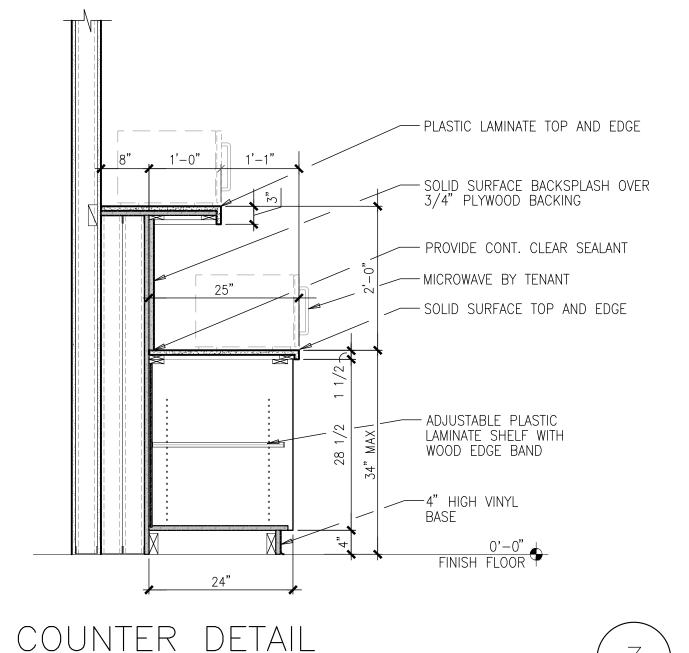
EXIT RAMP

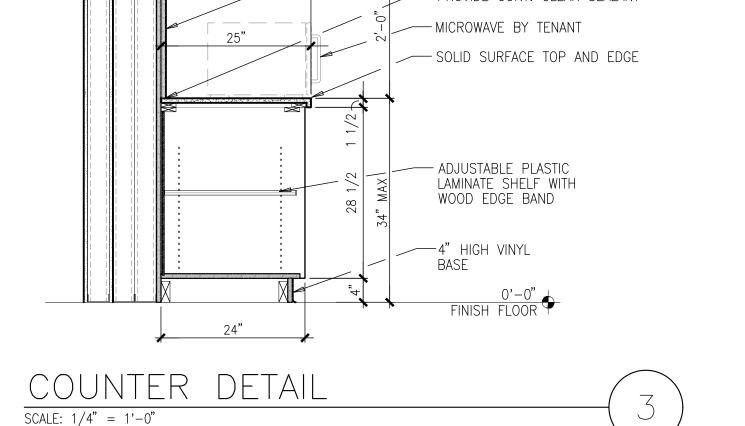
DOWN

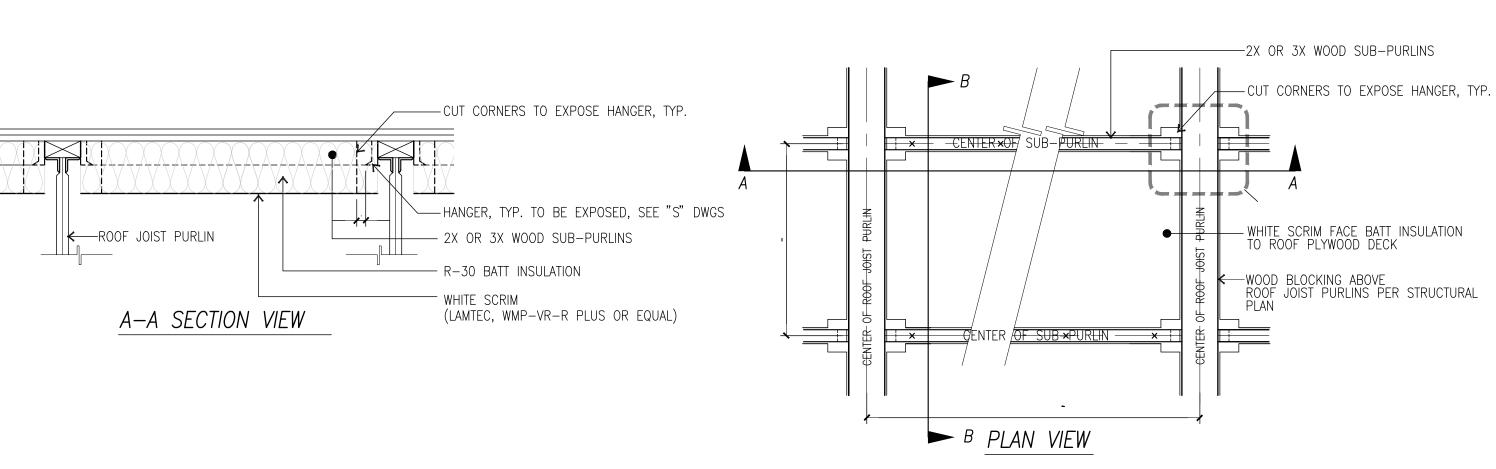
(BRAILLE)

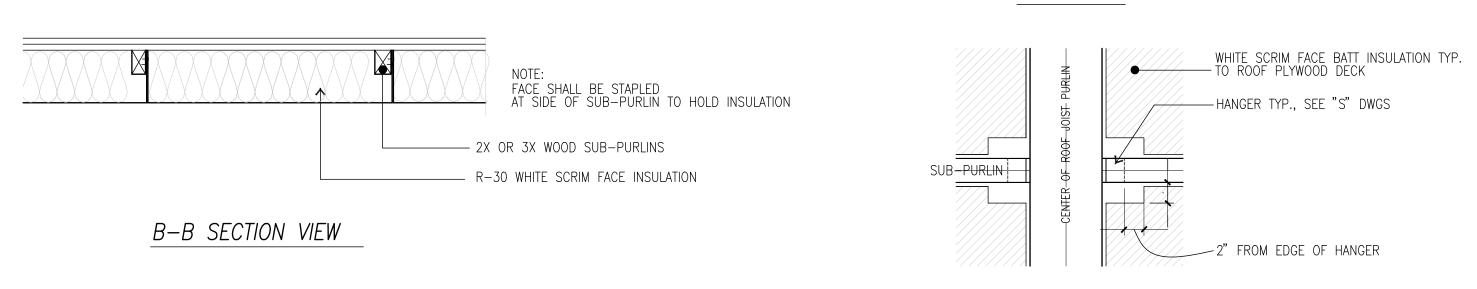
TACTILE EGRESS SIGNAGE

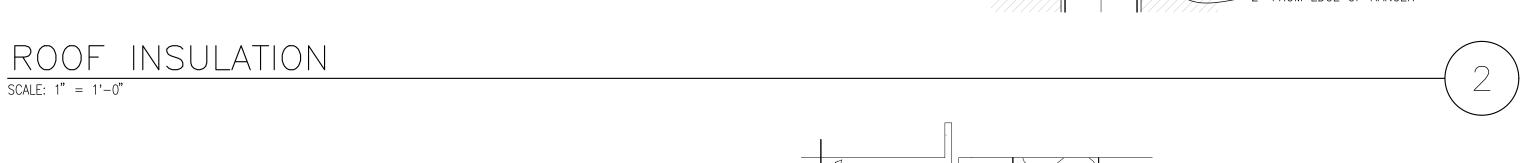


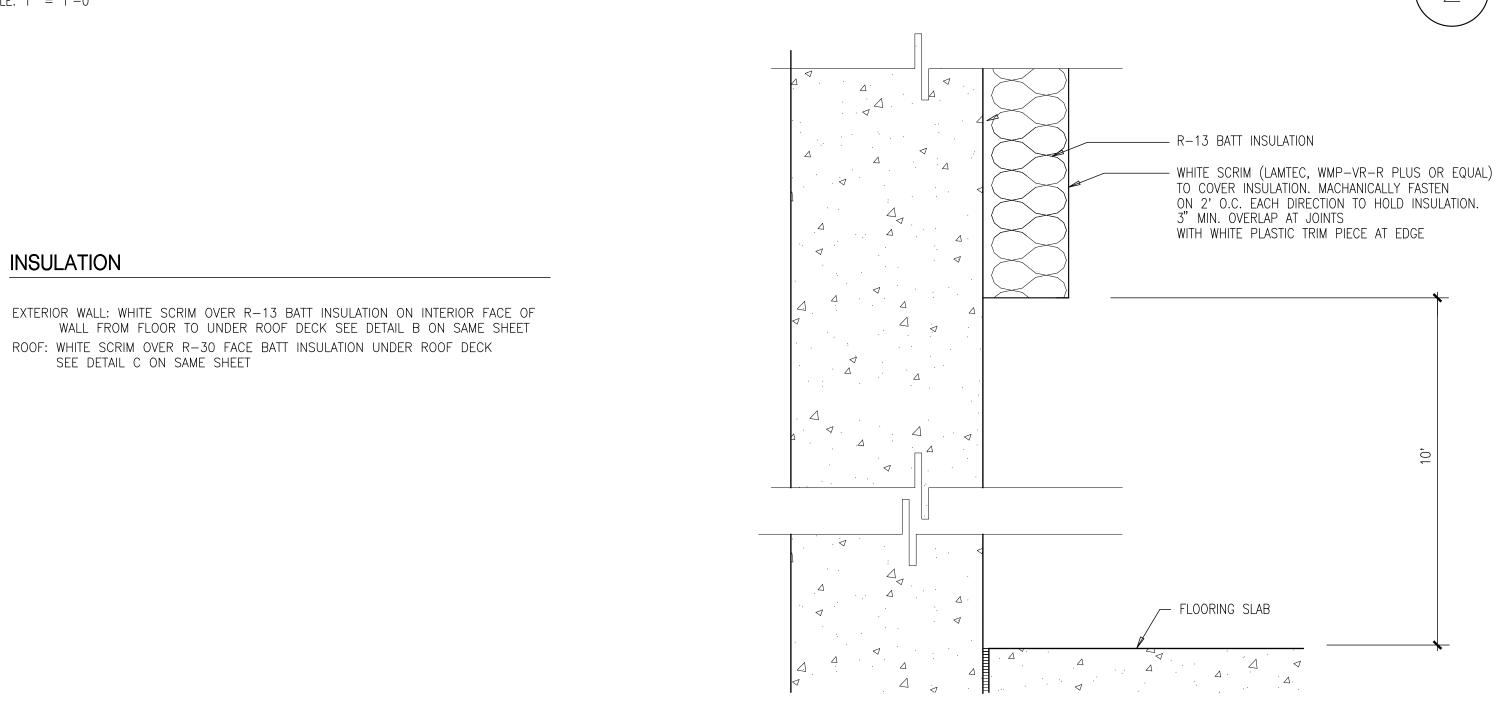












INSULATION @ CONC. PANEL (TO ROOF DECK)

SCALE: 3" = 1'-0"



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Owner:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

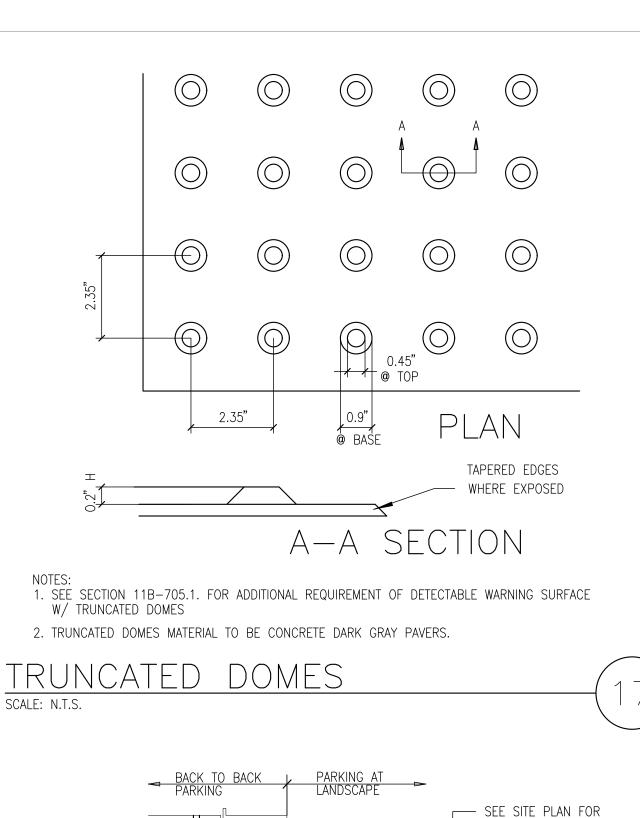
Consultants: **THIENES**

Structural: Mechanical: RPM Plumbing: RPM Electrical: Landscape: HUNTER LANDSCAPE Fire Protection:

Soils Engineer:

DETAILS Title:

19436 Project Number: Drawn by: 10/24/19 Date: Revision:



VANPOOL/EV

VEHICI É

C.L. PARKING STALL DIMENSIONS C.L.

2. VERIFY STRIPING REQUIREMENTS W/ CITY, & PROVIDE ACCORDINGLY

3. PROVIDE 4" WIDE STRIPPING AT ALL TRUCK STALLS

70 SQUARE INCH PAINTED METAL

PARKING SPACE PER TITLE 24 SECTION 2-7102(e) WITH WHITE INTERNATIONAL

SYMBOL OF ACCESSIBILITY ON BLUE

LOCATE AT END OF STALL AT CENTERLINE.

IF POST-MOUNTED, HEIGHT TO BE 80" AFG.

TO BOTTOM OF SIGN, IF WALL MOUNTED,

PROVIDE @ VAN PARKING ACCESSIBLE -

R LOCATED IN PLANTER, HEIGHT TO BÉ 36"

1. SEE SITE PLAN FOR HANDICAPPED PARKING LOCATIONS.

SIGN AT INTERIOR END OF

AFG. TO BOTTOM OF SIGŃ.

PARKING. SEE SITE PLAN

IN CONCRETE FOOTING

SCALE: 1/8" = 1' - 0"

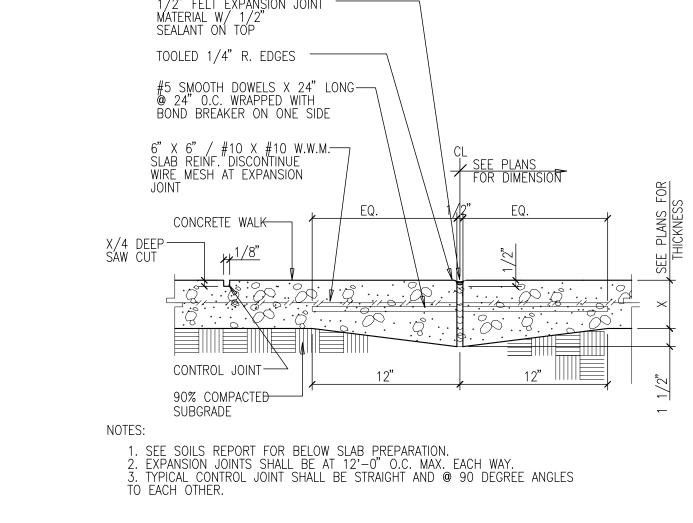
1 1/2" DIA. GALV. STEEL PIPE

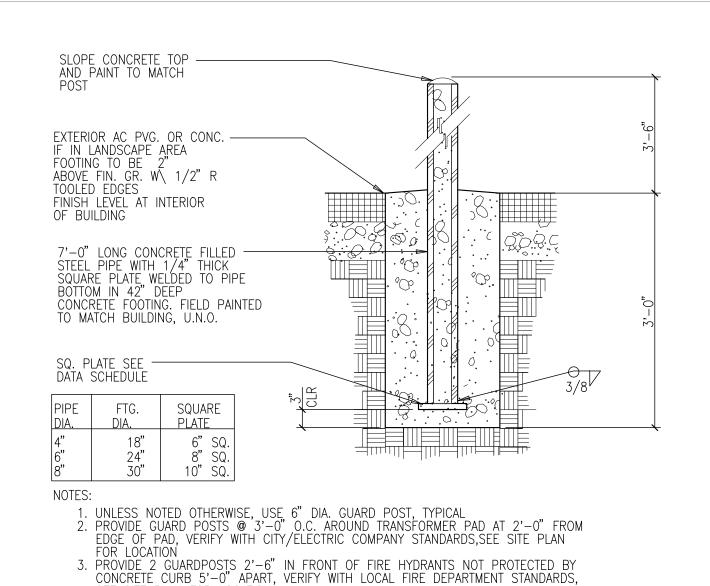
1. PROVIDE 2 COATS OF PAINT OVER NON-SEALED ASPHALT PAVING AND 1 COAT OF PAINT OVER SLURRY SEALED ASPHALT.

CENTER LINE @ CENTER AISLE

CONC. CURB OR WHEEL STOP AS -OCCURS

3" WIDE WHITE TRAFFIC PAINT STRIPING





4. PROVIDE 1 GUARDPOST 18" IN FRONT END TRUCK WELL RAMP WALL., SEE SITE PLAN FOR

BACK TO BACK PARKING AT PARKING LANDSCAPE

C.L. SEE SITE PLAN FOR C.L. PARKING STALL DIMENSIONS

1. PROVIDE 2 COATS OF PAINT OVER NON-SEALED ASPHALT PAVING AND 1 COAT OF PAINT OVER SLURRY SEALED ASPHALT.

2. VERIFY STRIPING REQUIREMENTS W/ CITY, & PROVIDE ACCORDINGLY

3. PROVIDE 4" WIDE STRIPPING AT ALL TRUCK STALLS

1. SURFACE SLOPES SHALL NOT EXCEED REQUIREMENTS CAL ACS

2. SEE ARCHITECTURAL DETAIL FOR PRECAST CONCRETE WHEEL STOP AS REQUIRED

3. PAINT "NO PARKING" IN 12" HIGH WHITE LETTERS IN THE ACCESSIBLE PARKING UNLOADING ZONE.

GUARD

SEE SITE PLAN FOR LOCATION.

SCALE: 3/4" = 1' - 0"

CENTER LINE @ -CENTER AISLE

CONC. CURB OR WHEEL STOP AS - OCCURS

3" WIDE WHITE -TRAFFIC PAINT

STRIPING

SCALE: 1/4"=1'-0"

TRUNCATED DOMES

@ CENTER OF

WHEEL STOP. SEE 3/AD.1-

HANDICAPPED SIGN ___

STALL SEE "L" DWGS. (-19)

CURB FACE —

PROVIDE 12" HIGH WHITE PAINT LETTERS

6" WIDE BLUE TRAFFIC PAINT STRIPING

DETAIL 10

PARKING LOT STRIPING SEE

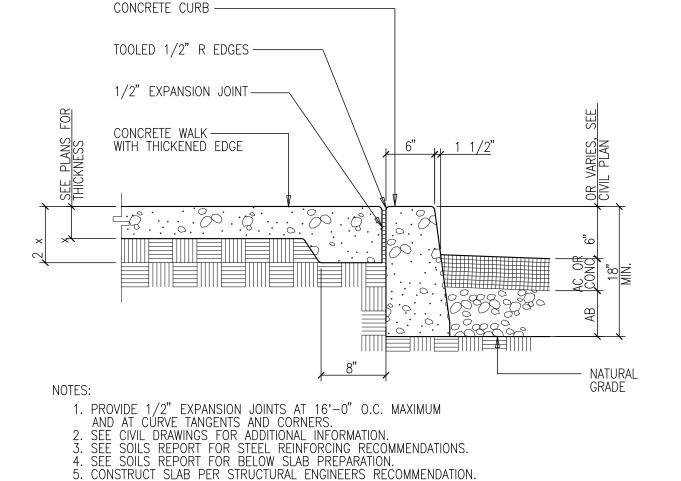
BY SITE PLAN

SCALE: 1/8"=1'-0"

"NO PARKING" AS SHOWN

12" WIDE 1/4" X1/4" GROOVES | SEE PLAN 3/4" O.C.

OF PARKING



REFER TO CIVIL DRAWINGS FOR ACTUAL CONSTRUCTION DETAILS

10102A

REQUIREMENTS IN THIS DETAIL ARE MIN. REQUIREMENTS

SCALE: 1"=1'-0"

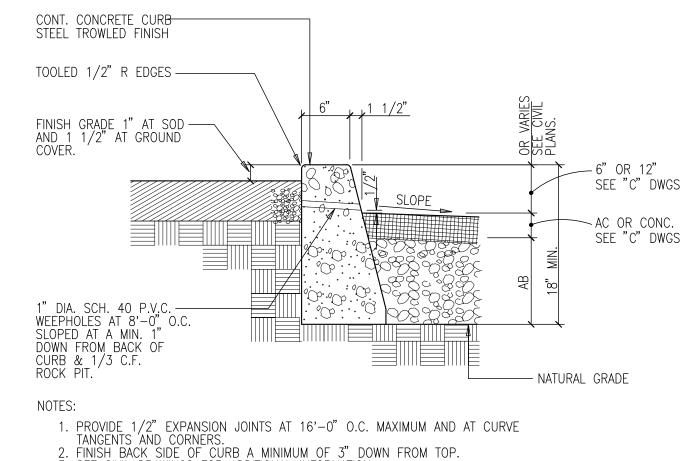
10401A

10301A

HC-PARK4

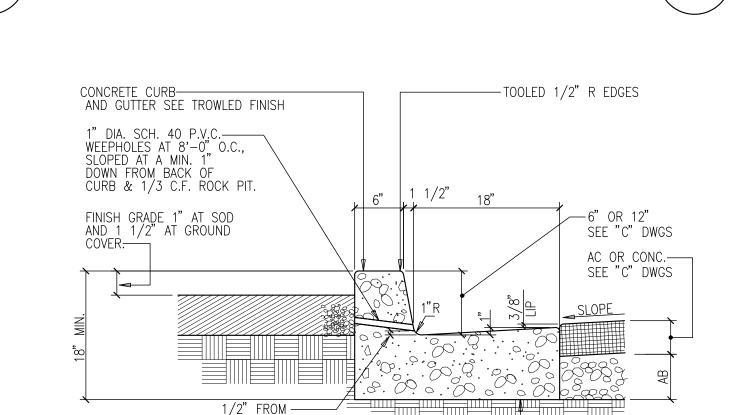
SEE SITE PLAN FOR

OVERHANG DIMENSION



 PROVIDE 1/2" EXPANSION JOINTS AT 16'-0" O.C. MAXIMUM AND AT CURVE TANGENTS AND CORNERS.
 FINISH BACK SIDE OF CURB A MINIMUM OF 3" DOWN FROM TOP.
 SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION
 SEE SOILS REPORT FOR STEEL REINFORCING RECOMMENDATIONS. REFER TO CIVIL DRAWINGS FOR ACTUAL CONSTRUCTION DETAILS REQUIREMENTS IN THIS DETAIL ARE MIN. REQUIREMENTS

SCALE: 1"=1'-0"



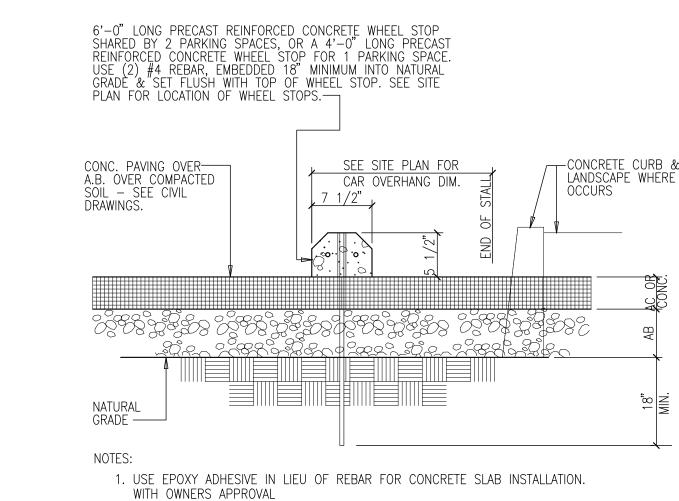
NOTES: 1. PROVIDE 1/2" EXPANSION JOINTS AT 16'-0" O.C. MAXIMUM AND AT CURVE TANGENTS AND CORNERS. 2. FINISH BACK SIDE OF CURB A MINIMUM OF 3" DOWN FROM TOP. EE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

BOTTOM

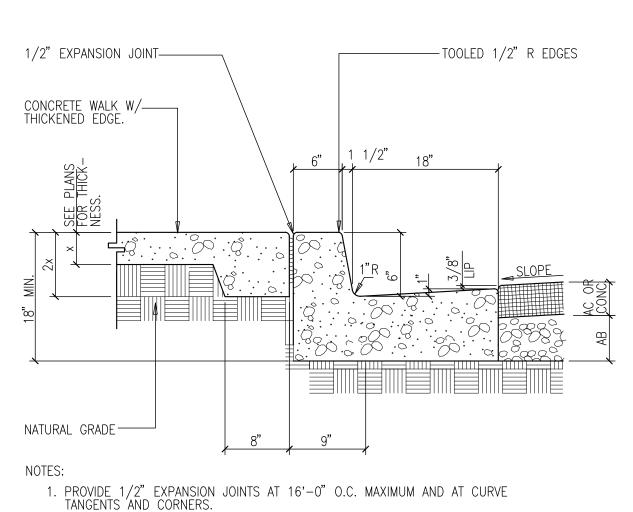
4. SEE SOILS REPORT FOR STEEL REINFORCING RECOMMENDATIONS. REFER TO CIVIL DRAWINGS FOR ACTUAL CONSTRUCTION DETAILS REQUIREMENTS IN THIS DETAIL ARE MIN. REQUIREMENTS

SCALE: 1" = 1' - 0"

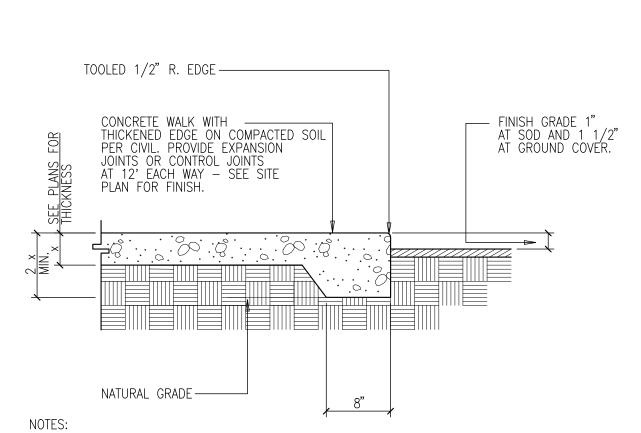
- NATURAL GRADE



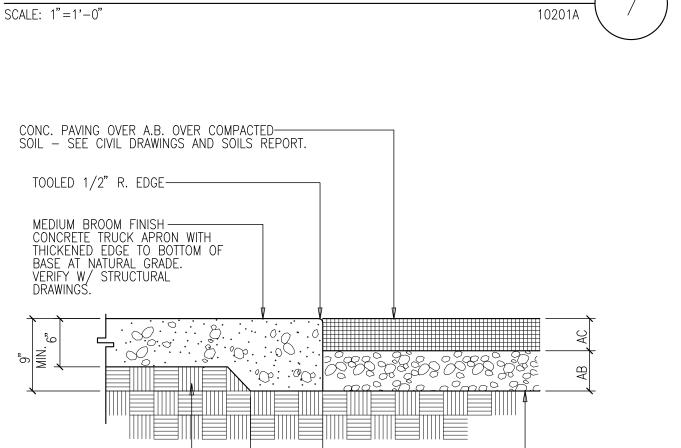
REFER TO CIVIL DRAWINGS FOR ACTUAL CONSTRUCTION DETAILS REQUIREMENTS IN THIS DETAIL ARE MIN. REQUIREMENTS



SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. SEE SOILS REPORT FOR STEEL REINFORCING RECOMMENDATIONS. REFER TO CIVIL DRAWINGS FOR ACTUAL CONSTRUCTION DETAILS REQUIREMENTS IN THIS DETAIL ARE MIN. REQUIREMENTS



REFER TO CIVIL DRAWINGS FOR ACTUAL CONSTRUCTION DETAILS REQUIREMENTS IN THIS DETAIL ARE MIN. REQUIREMENTS



architecture hpa, inc.

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Owner:

20730 PRAIRIE ST. CHATSWORTH, CA 91311

Project: DAX3

20730 PRAIRIE ST.

CHATSWORTH. CA 91311

Phase

Consultants:

RA SMITH STRUCTURAL HSA MECHANICAL RPM **PLUMBING** RPM RPM ELECTRICAL HUNTER LANDSCAPE FIRE PROTECTION SOILS ENGINEER

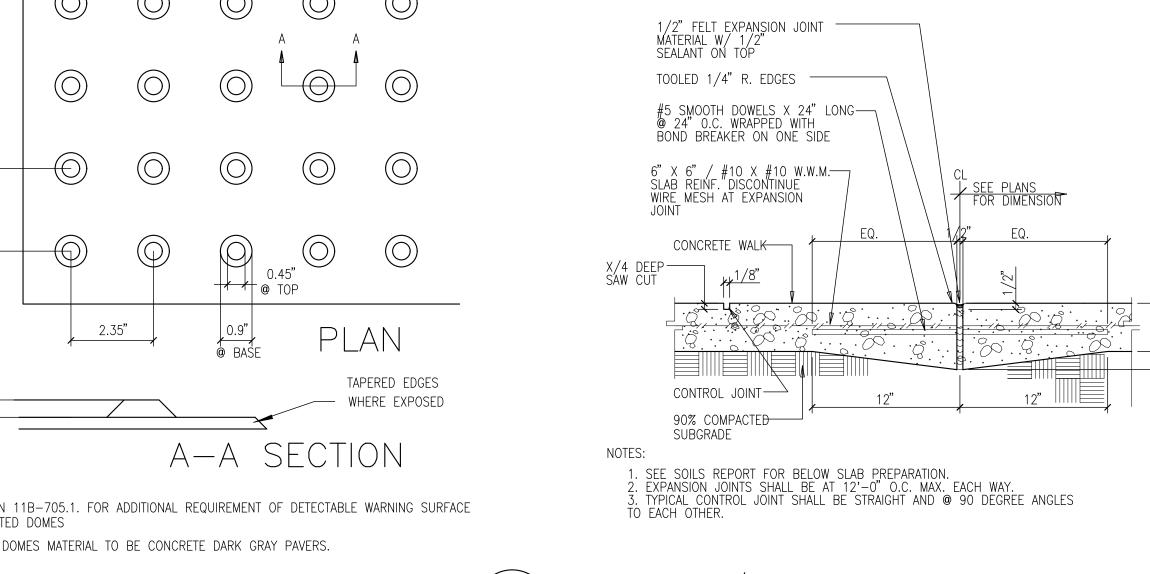
DETAILS

Title:

19415 Project Number: Drawn by:

11/27/2019 Date: Revision:

Sheet:



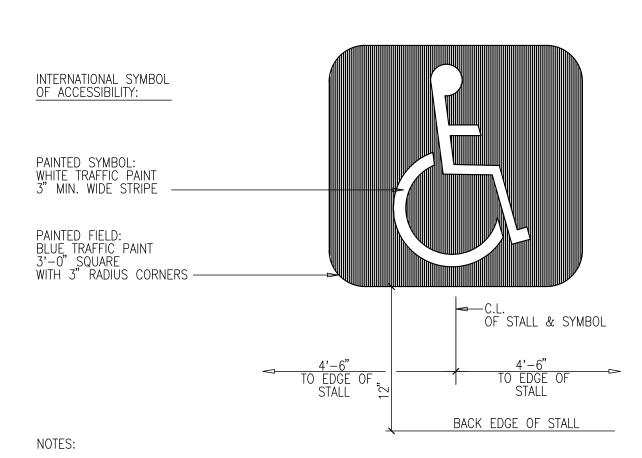
OVERHANG DIMENSION

FINE \$250

VAN ACCESSIBLE

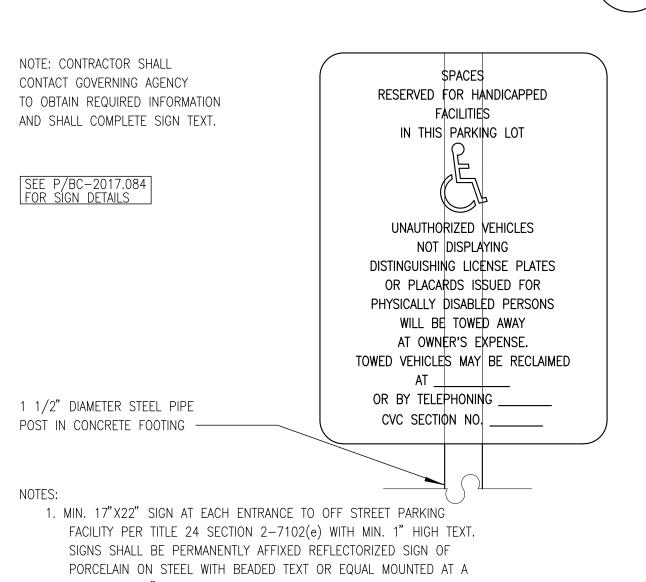
HC-PARK4





1. SEE SITE PLAN FOR HANDICAPPED PARKING LOCATIONS. 2. SIGNAGE SHALL CONFORM TO SEC. 4.30 OF THE AMERICANS WITH DISABILITIES ACT.

NO SCALE



HEIGHT OF 80" ABOVE FINISHED GRADE, TO BOTTOM OF SIGN.

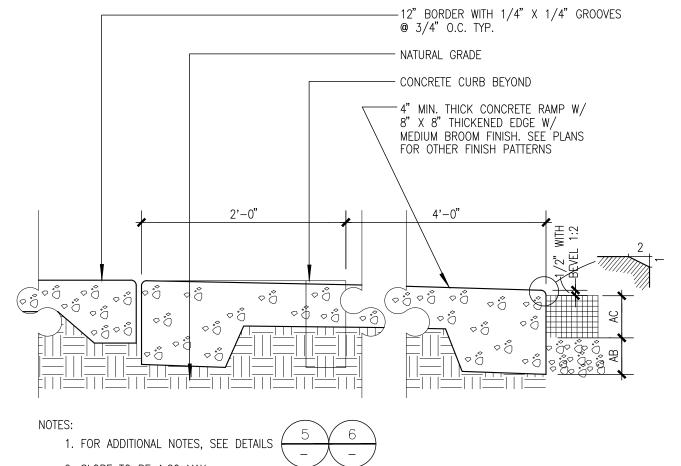
SCALE: N.T.S.

2. SINAGE SHALL CONFORM TO SEC. 4.30 OF THE AMERICANS WITH DISABILITIES ACT.

12" WIDE 1/4" X1/4" GROOVES — 3/4" O.C. CONC. CURB PER CIVIL-48" MIN.

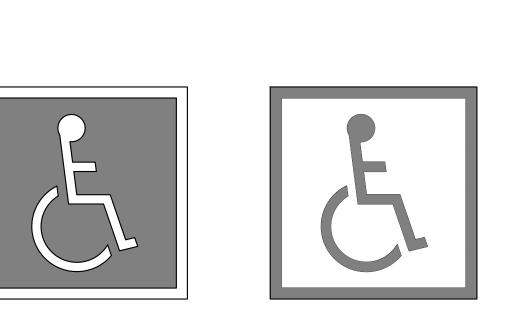
1. SURFACE SLOPES SHALL NOT EXCEED 8.33% 2. DETECTABLE WARNINGS SHALL BE PROVIDED AT EACH CURB RAMP IN ACCORDANCE WITH 2016 CBC SECTION 11B 705

ACCESSIBLE ROUTE OF TYP. AT CURB SCALE: 1/8" = 1' - 0"



DHC-0003

2. SLOPE TO BE 1:20 MAX. REFER TO CIVIL DRAWINGS FOR ACTUAL CONSTRUCTION DETAILS REQUIREMENTS IN THIS DETAIL ARE MIN. REQUIREMENTS CONCRETE WALK RAMP SCALE: $1 \frac{1}{2} = 1' - 0''$



INTERNATIONAL ACCESSIBILITY SYMBOL SCALE: 1"=1'-0"

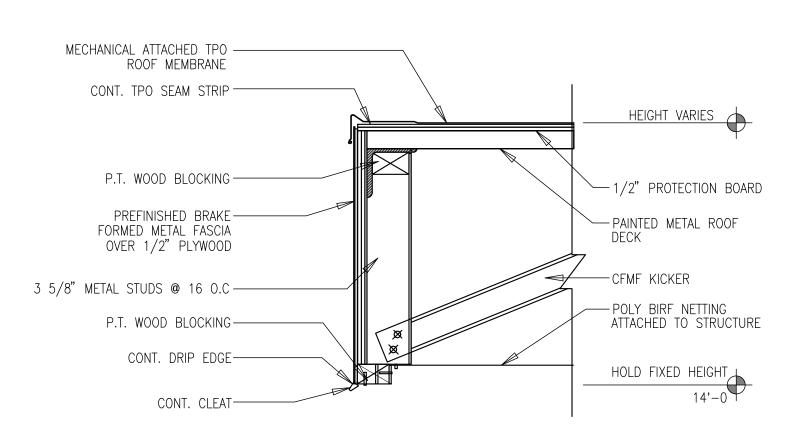
NATURAL GRADE OR ——— AGGREGATE BASE PER SOILS REPORT 1. SEE SOILS REPORT FOR BELOW SLAB PREPARATION AND STEEL REINFORCING REQUIREMENTS.

1. SEE SOILS REPORT FOR BELOW SLAB PREPARATION.

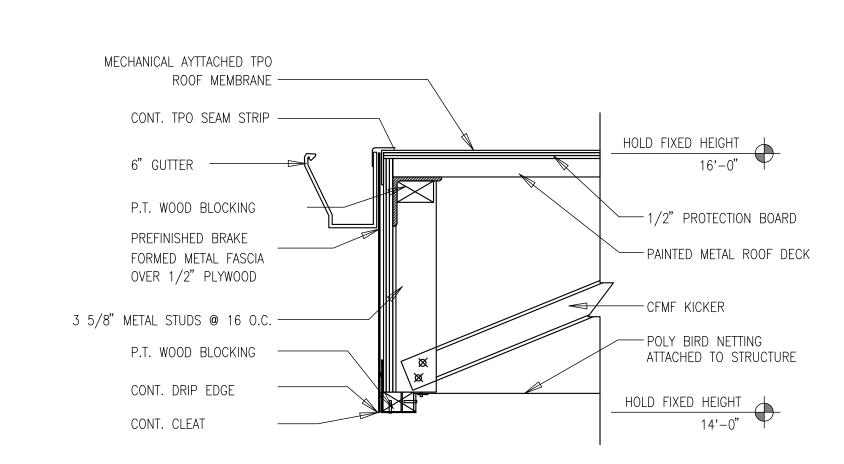
REFER TO CIVIL DRAWINGS FOR ACTUAL CONSTRUCTION DETAILS REQUIREMENTS IN THIS DETAIL ARE MIN. REQUIREMENTS

NOT USED SCALE: N.T.S.

FEDERAL YELLOW TRUNCATED DOMES —

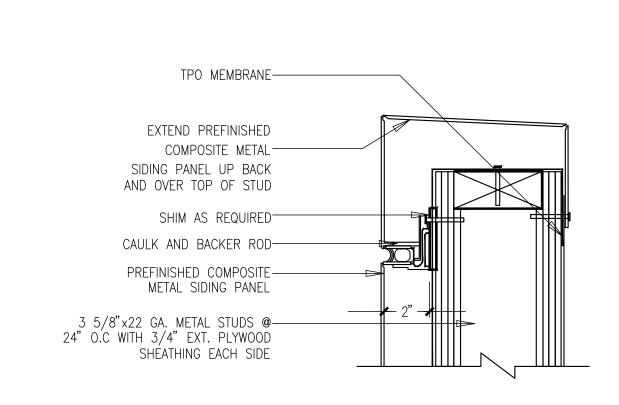


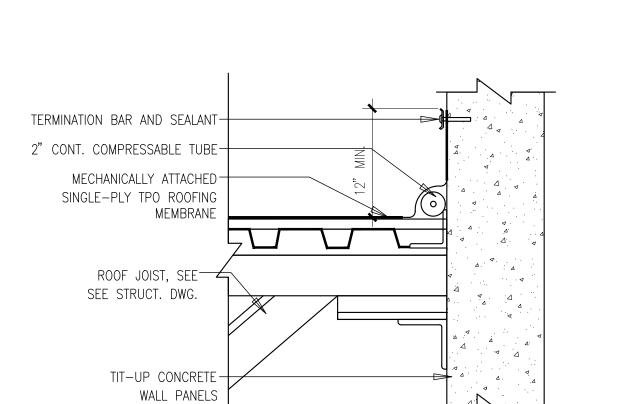
SOFFIT DETAIL AT LOADING CANOPY ENDS SCALE: $1 \frac{1}{2} = 1' - 0''$



SOFFIT DETAIL AT LOADING CANOPY SCALE: 1 1/2"=1'-0"

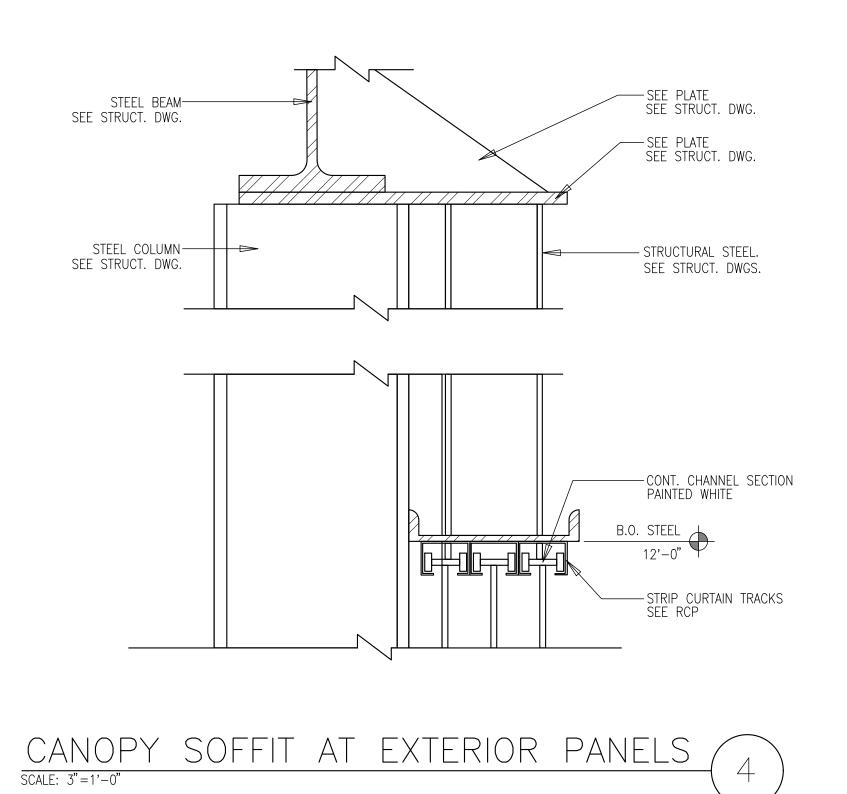
ENTRY CANOPY PARAPET SCALE: 3" = 1' - 0"

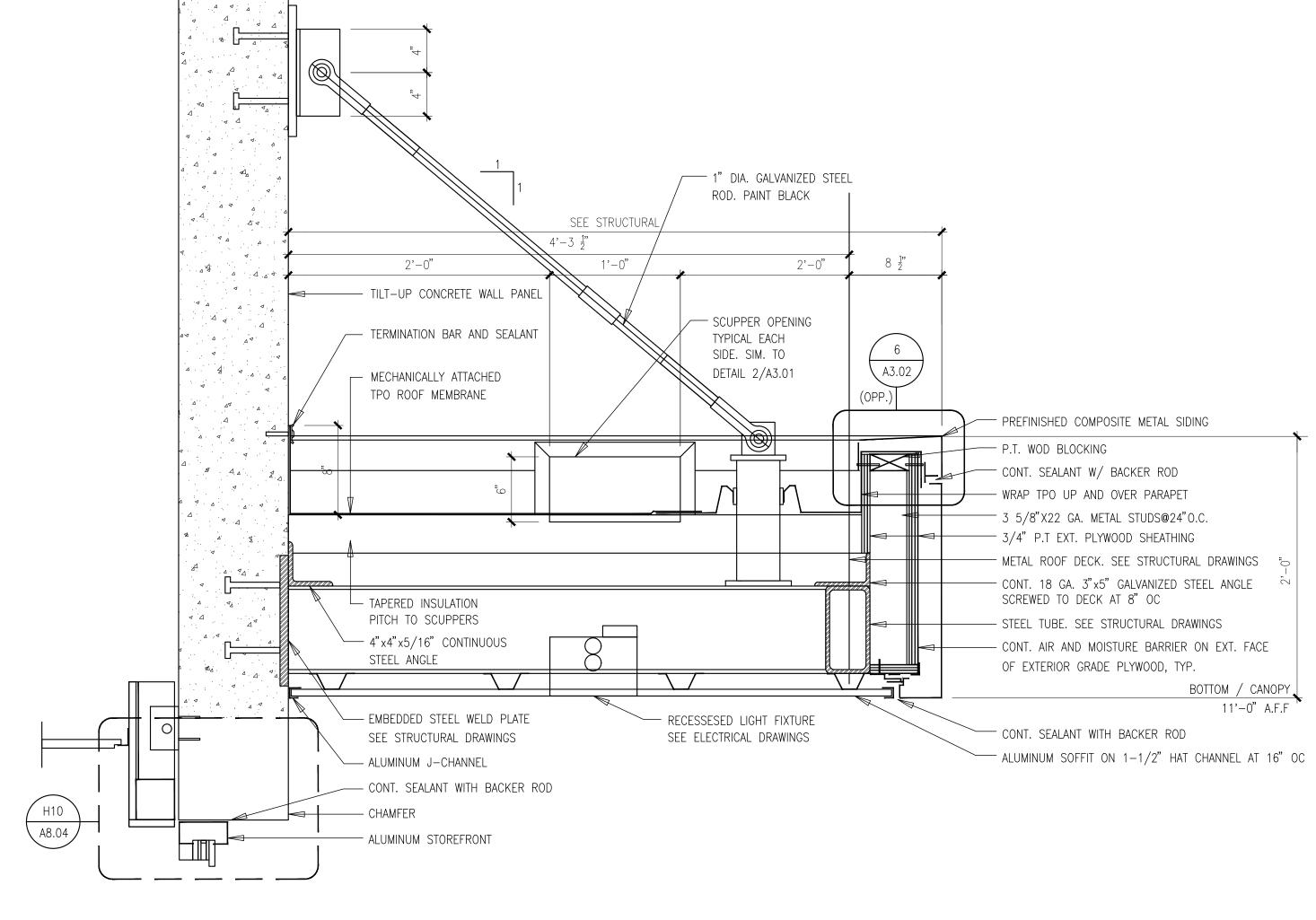




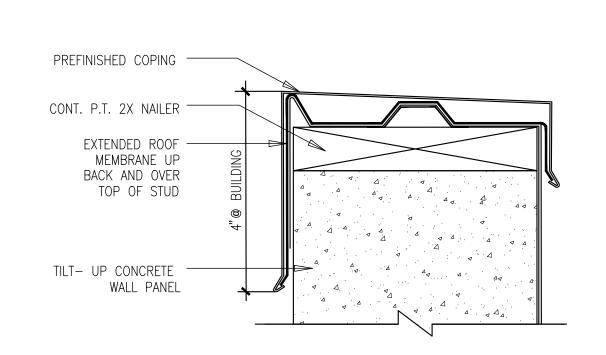
SOFFIT DETAIL AT EXTERIOR WALL

SCALE: 1 1/2"=1'-0"



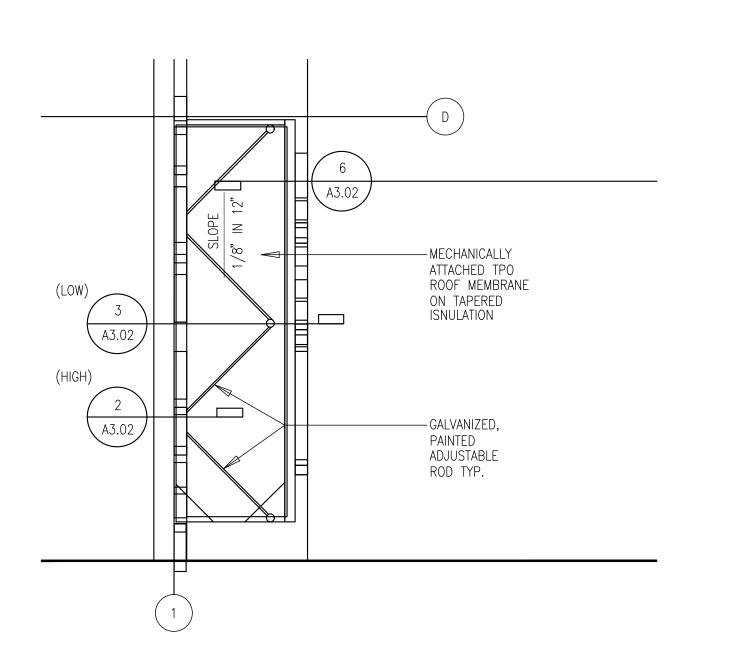


1 1/2-1'-0"



TYP. PARAPET

SCALE: 3"=1'-0"



ASSOCIATE ENTRY CANOPY ROOF PLAN

SCALE: 1/4"=1'-0"



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Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

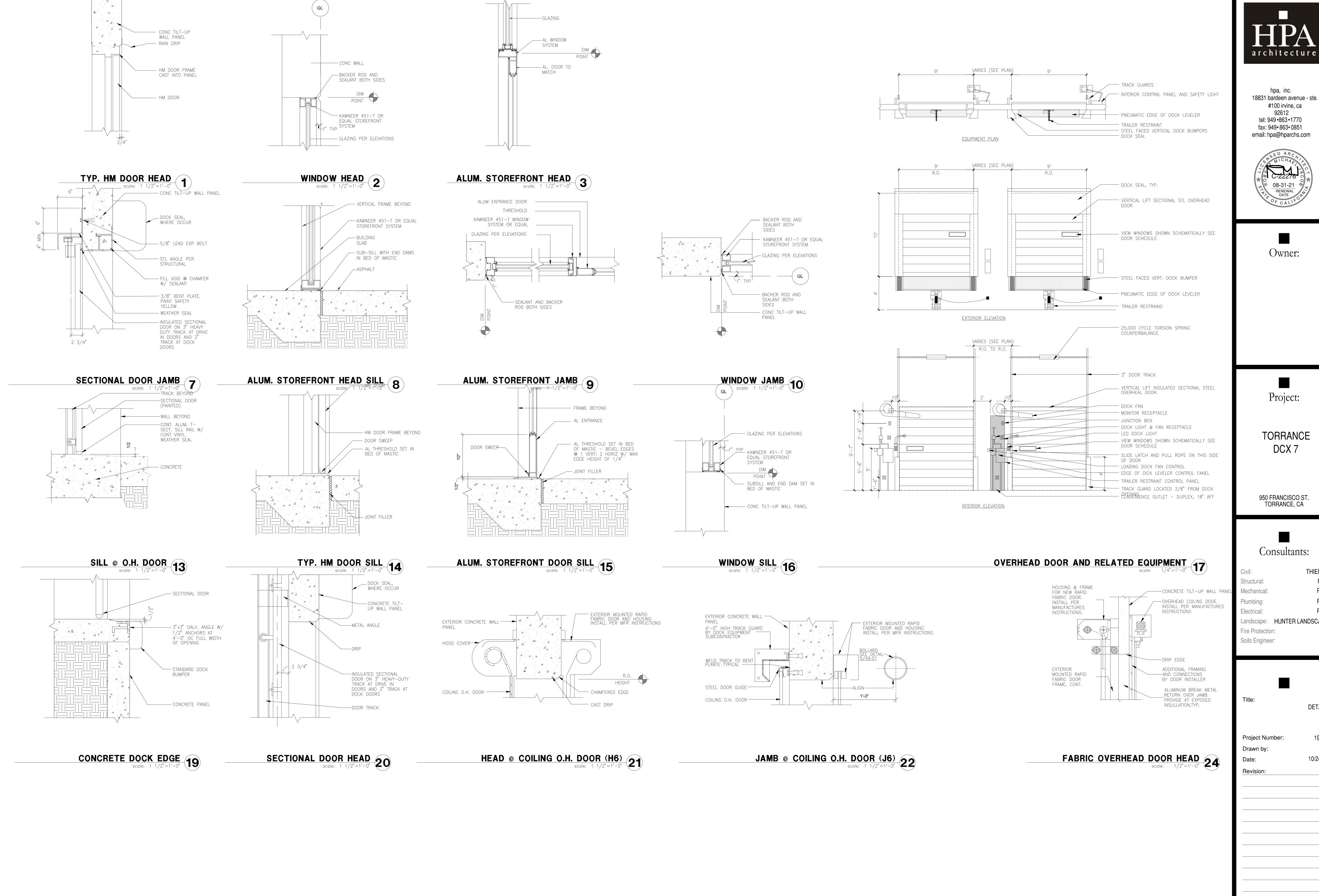
THIENES Structural: Mechanical: RPM Plumbing: RPM Electrical: Landscape: HUNTER LANDSCAPE Fire Protection:

Title: **DETAILS**

19436 Project Number: Drawn by: 10/24/19 Date:

Revision:

Soils Engineer:



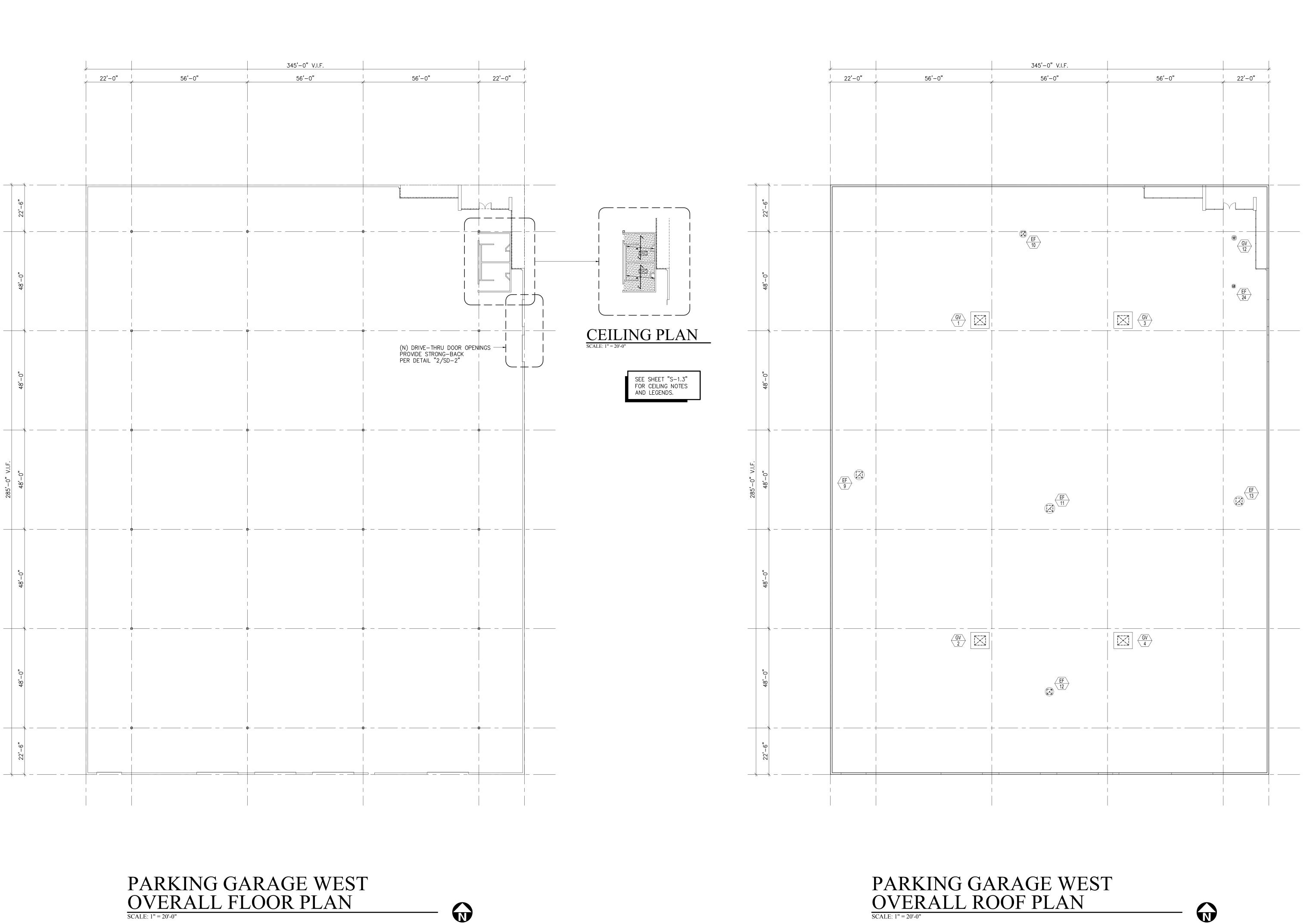


THIENES HSA

RPM RPM RPM Landscape: HUNTER LANDSCAPE

DETAILS

19436 10/24/19



SEE SHEET "S-1" FOR FOUNDATION NOTES AND LEGENDS.

MECH. UNIT SCHEDULE

UNIT NO.	OPER. WT. (LBS)
EF 9	370
EF 10	190
EF EF 11 13	350
EF 12	250
EF 24	70
$ \begin{array}{c c} \hline GV \\ 1 \end{array} $ THRU $ \begin{array}{c c} GV \\ 4 \end{array} $	430
GV 12	40

SEE SHEET "S-2" FOR ROOF NOTES AND LEGENDS.

NOTE: VERIFY WEIGHT OF MECH. UNITS W/ LATEST MECH. & ARCHT'L DWG'S.

architecture

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Owner:

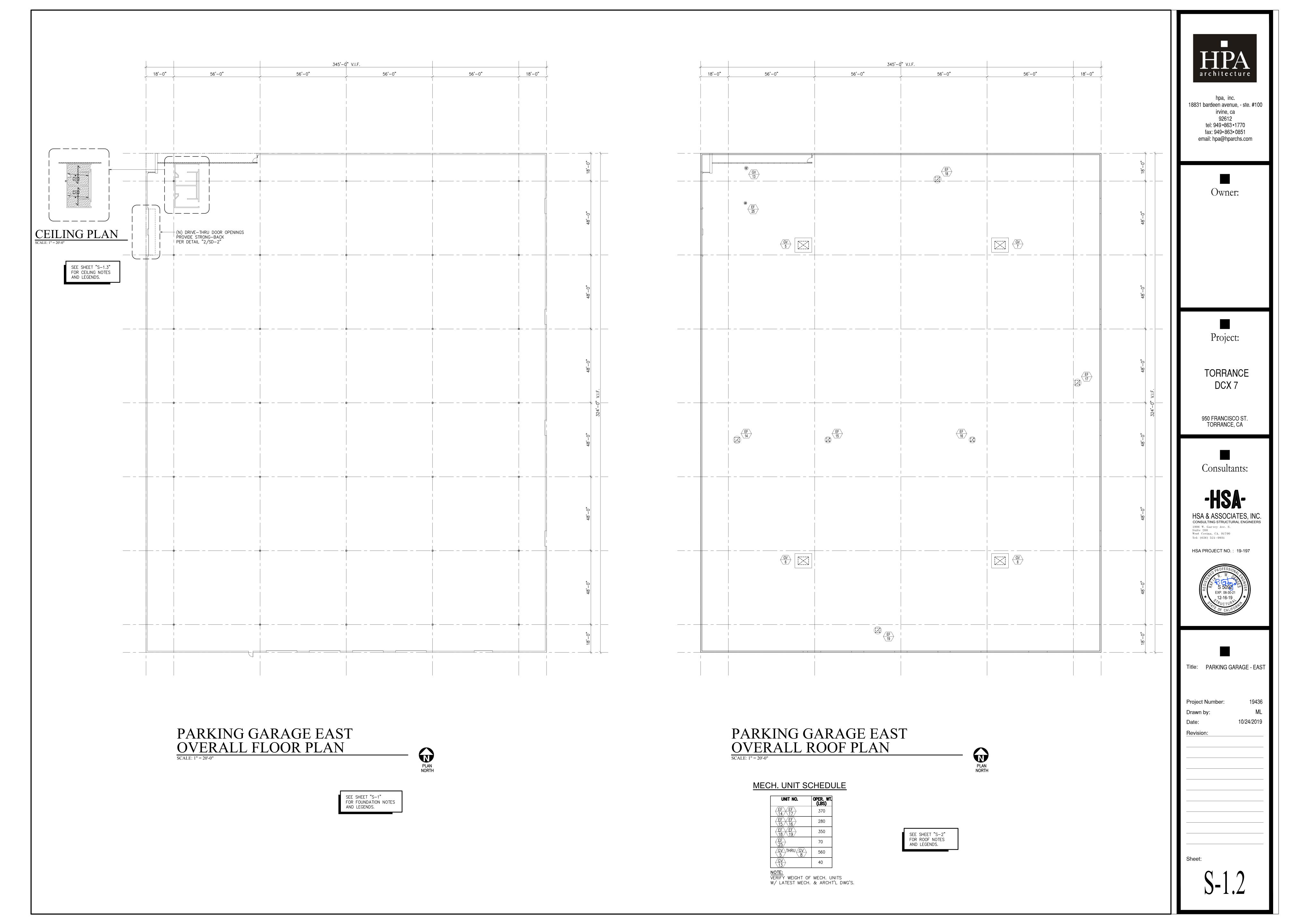
Project:

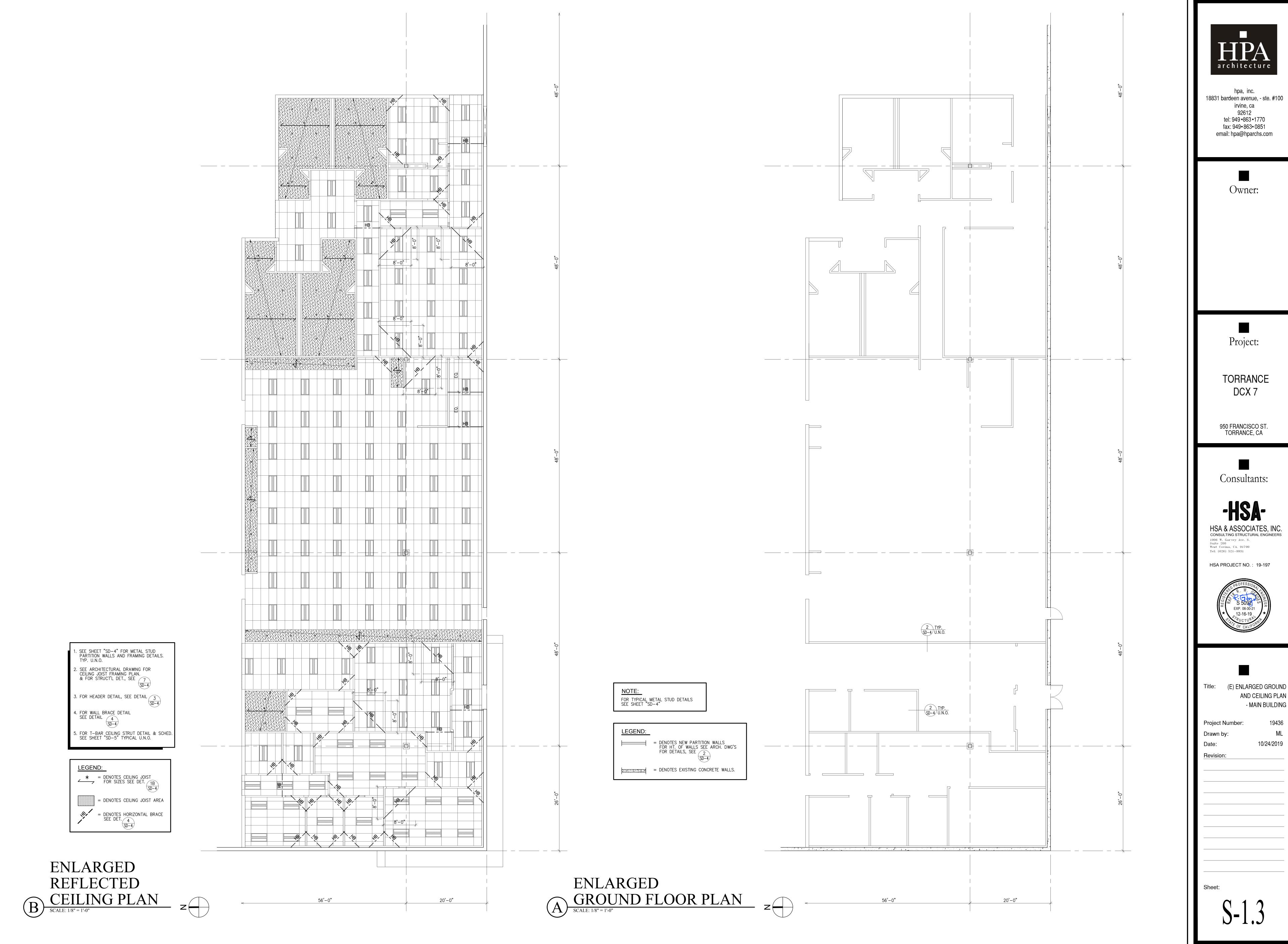
DCX 7

Consultants:

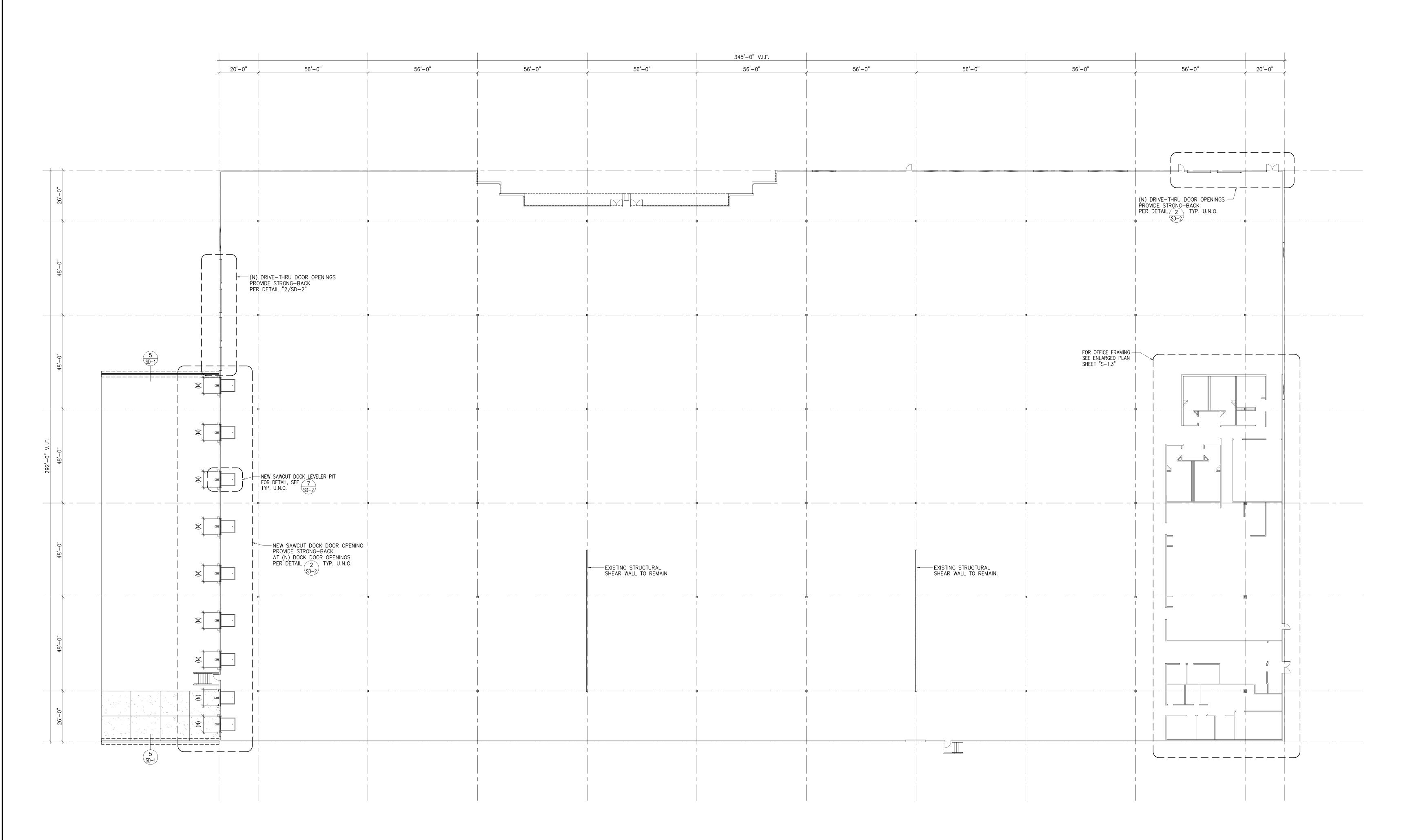


Title: PARKING GARAGE - WEST





AND CEILING PLAN



OVERALL FLOOR PLAN - MAIN BUILDING SCALE: 1" = 20'-0"



FOUNDATION NOTES:

- 1. FOR GENERAL NOTES SEE SHEET "SD-0.0".
- 2. (E) = EXISTING OPENING (N) = NEW OPENING
- 3. SEE ARCHITECTURAL, ELECTRICAL, PLUMBING MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF SLAB DEPRESSION AND OPENINGS REQUIRED FOR DUCTS, PIPES SLEEVES, ELECTRICAL CONDUITS AND OTHER EMBEDDED IN CONCRETE, UNLESS NOTED OTHERWISE.
- 4. CONTRACTOR SHALL VERIFY BOTTOM OF PANEL WITH THE LATEST GRADING PLAN.
- 5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE LATEST
- ARCHITECTURAL AND STRUCTURAL DRAWINGS.

 6. SEE DETAIL "5A/SD-2" FOR TYPICAL EDGE OF SLAB.
- 7. CONTRACTOR REFER TO DETAILS "7/SD-2" & SHEET "SD-4" FOR SAW-CUT OPENING OF FUTURE DOCK LEVELER.
- 8. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE SOILS ENGINEER OF RECORD PRIOR TO THE PLACEMENT OF ANY REINFORCING STEEL. A WRITTEN REPORT PREPARED BY THE SOILS ENGINEER OF RECORD STATING THE RESULTS OF THE SOILS ENGINEER'S INSPECTION SHALL BE PROVIDED TO THE CITY INSPECTOR PRIOR TO THE PERFORMANCE OF ANY FOUNDATION INSPECTION. EXCAVATION SHALL BE MADE IN COMPLIANCE WITH CAL/OSHA REGULATIONS.
- 9. THE FINAL COMPACTION REPORT AND SOIL ENGINEER EXCAVATION INSPECTION REPORT MUST BE SUBMITTED TO THE BUILDING INSPECTOR PRIOR TO FOUNDATION INSPECTION AND THAT CITY INSPECTOR MUST INSPECT EXCAVATIONS BEFORE POURING ANY
- 10. PRIOR TO THE CONTRACTOR REQUESTING A FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
 A) THE UTILITY TRENCHES, IF ANY, HAVE BEEN PROPERLY BACKFILLED AND COMPACTED.
 B) THE FOUNDATION EXCAVATION WAS MADE TO COMPLY WITH THE RECOMMENDATION FOR EXPANSIVE CHARACTERISTICS AND BEARING CAPACITY.
- 11. CONTRACTOR TO RE-RUN SAW BLADE THROUGH CONTROL JOINTS FOR PROPER CLEAN-OUT AT END OF PROJECT.
- 12. ALL (E) FOOTINGS TO BE FIELD VERIFIED ENGINEER OF RECORD TO BE CONTACTED IMMEDIATELY IF (E) FOOTING DIMENSIONS DIFFER FROM AS—BUILT DRAWINGS.
- 13. FLOOR INFILL FOR EXACT LOCATION SEE ARCH. DWG'S FOR DETAIL, SEE 8



Dwner:

roject.

TORRANCE DCX 7

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Consultants:

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CONSULTING STRUCTURAL ENGINEERS
1906 W. Garvey Ave. S.
Suite 200
West Covina, CA. 91790

LICA DDO ICCT NO . 40.4



Title: OVERALL FLOOR PLAN
- MAIN BUILDING

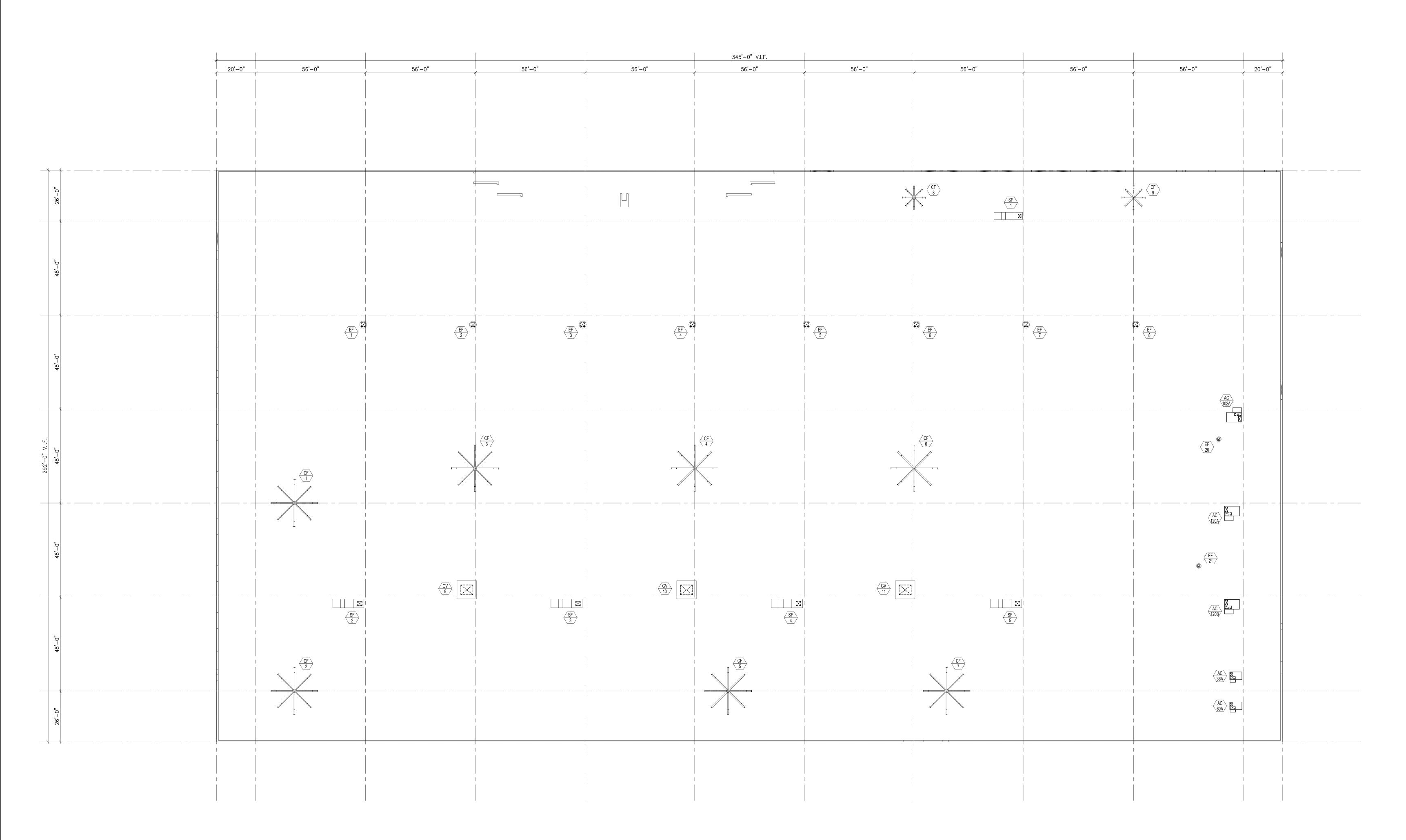
Project Number:
Drawn by:
Date:

Revision:

10/24/2019

Sheet:

S-1



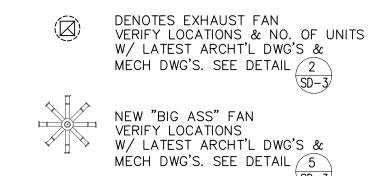
OVERALL ROOF PLAN - MAIN BUILDING SCALE: 1" = 20'-0"

NOTE:

1. FOR GENERAL NOTES SEE SHEET "SD-0.0".

- 2. SEE ARCHT'L AND MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECH. EQUIPMENTS FOR DETAIL SEE 1 2 SD-3 SD-3
- 3. SEE SPRINKLER DRAWINGS FOR EXACT LOCATION & WEIGHT OF SPRINKLER MAINS
- 4. ADEQUACY OF SUPPORTS FOR SPRINKLER SYSTEM DESIGN LOADS SHALL BE REVISED AND APPROVED BY ENGINEER OF RECORD PRIOR TO FIELD INSTALLATION AND INSPECTION.

LEGENDS:



MECH. UNIT SCHEDULE

UNIT NO.	(LBS)
AC 36A	700
AC 60A	800
AC 102A	1380
AC AC 120A 120B	1530
EF THRU EF 8	180
EF EF 20 21	100
SF 1	1220
SF THRU SF 5	1750
GV THRU GV 11	540
CF THRU CF 9	_
NOTE: VERIFY WEIGHT OF W/ LATEST MECH.	T MECH. UNITS . & ARCHT'L DWG'S.



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Dwner:

During

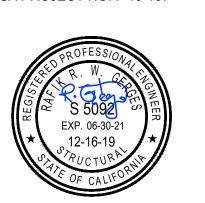
ORRANCE DCX 7

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Suite 200
West Covina, CA. 91790

HSA PROJECT NO.: 19-197



OVERALL D

Title: OVERALL ROOF PLAN
- MAIN BUILDING

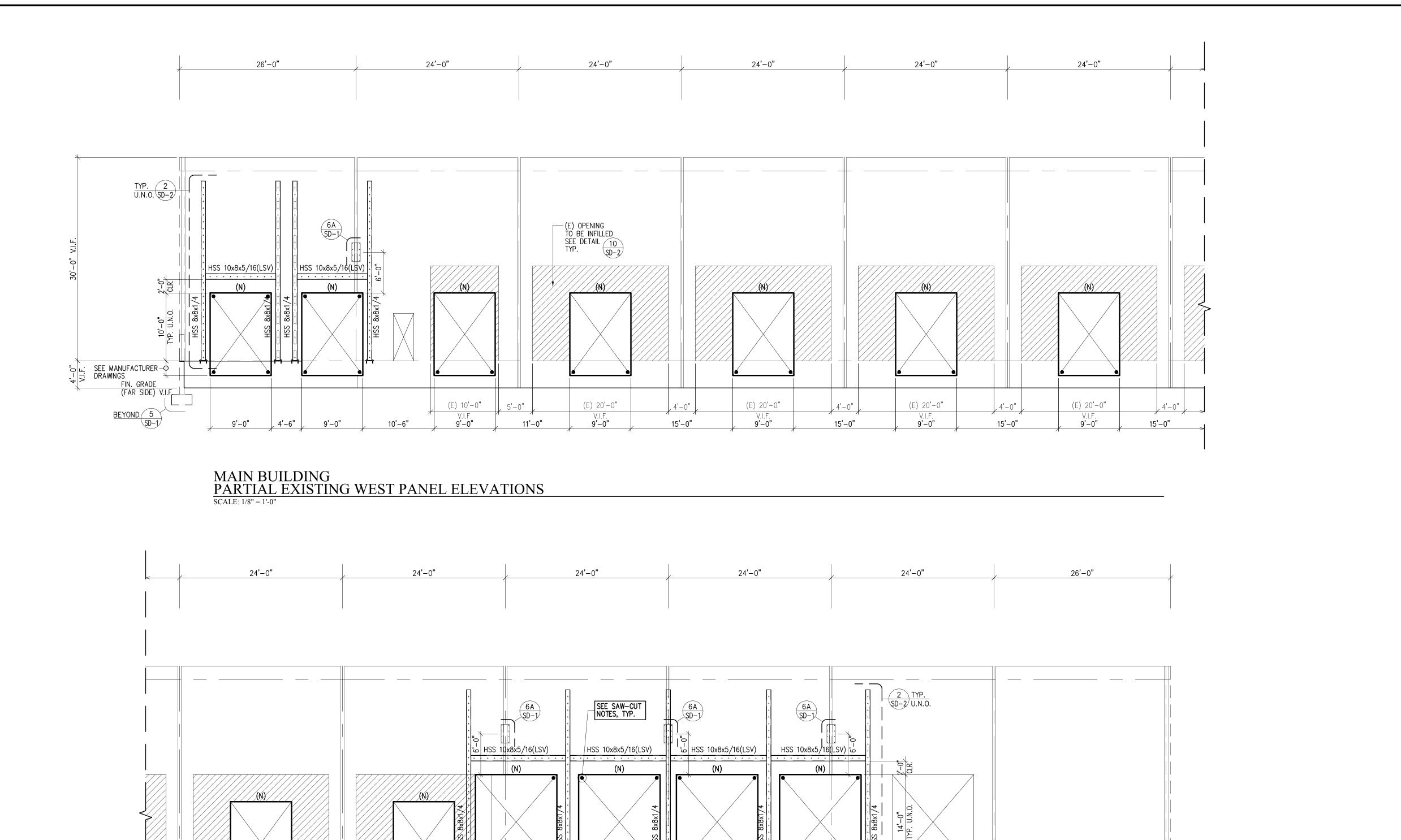
10/24/2019

Drawn by:
Date:

Date:
Revision:

Sheet:

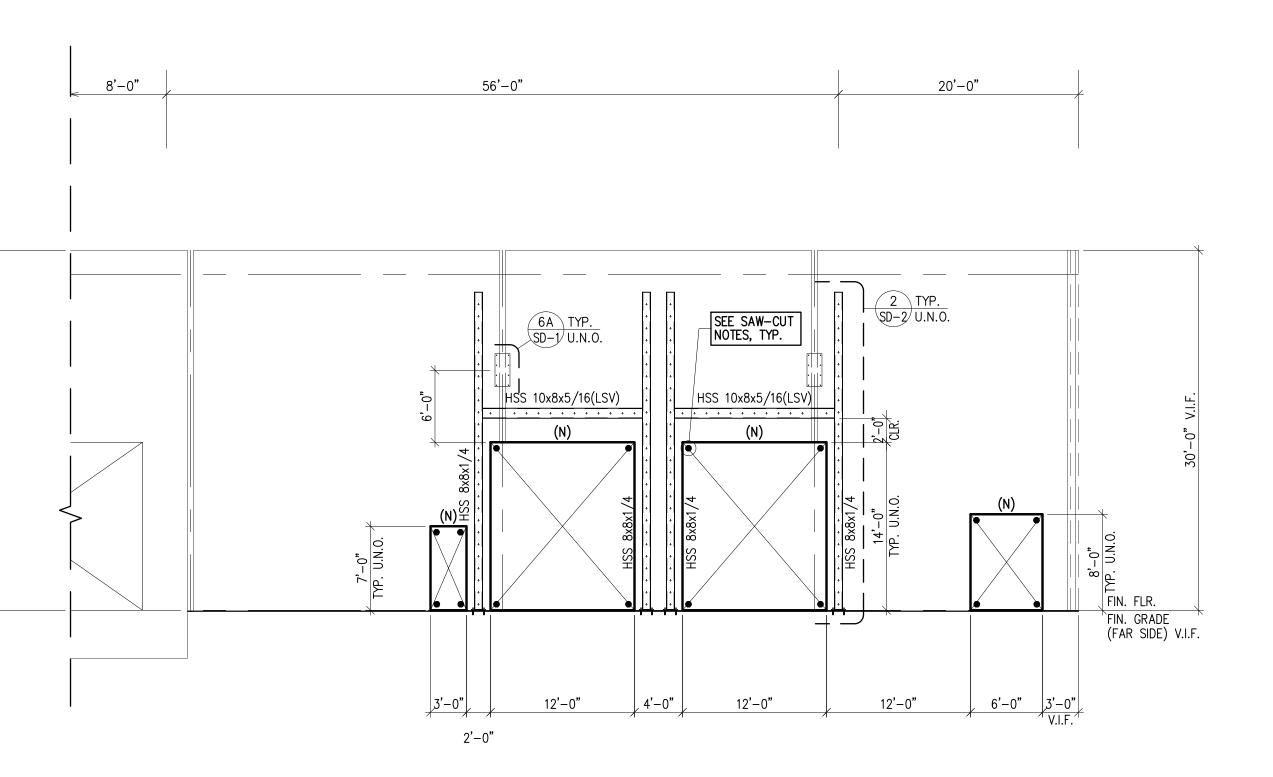
S-2



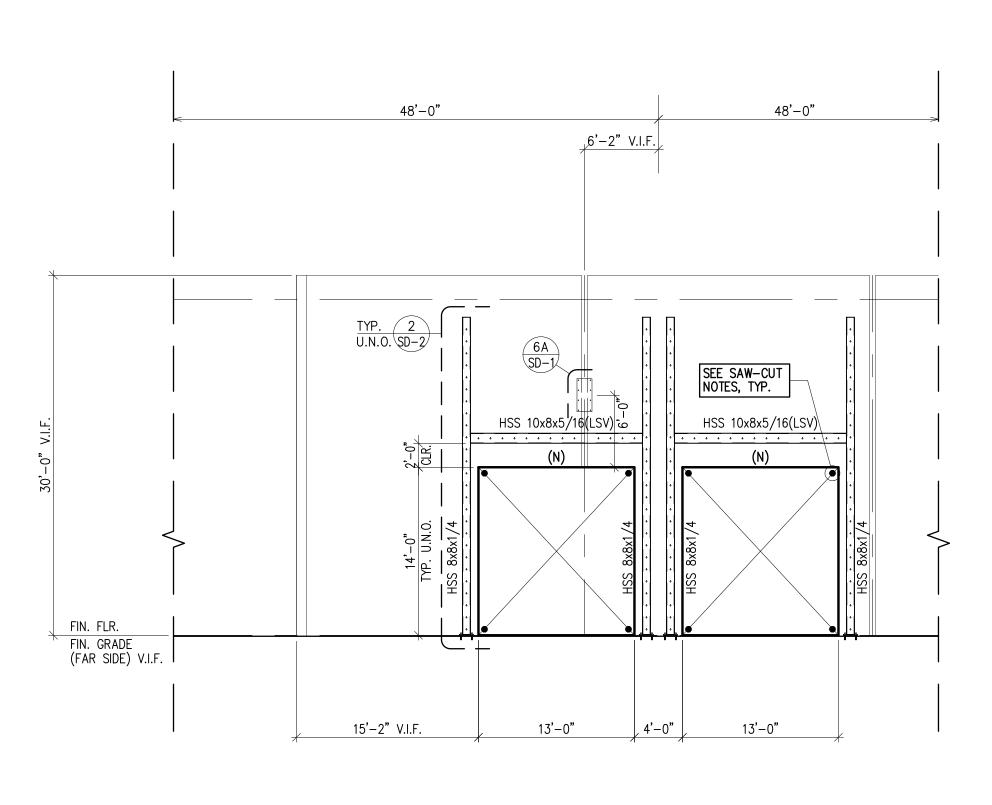
MAIN BUILDING
PARTIAL EXISTING WEST PANEL ELEVATIONS
SCALE: 1/8" = 1'-0"

(E) 20'-0" V.I.F. 9'-0"

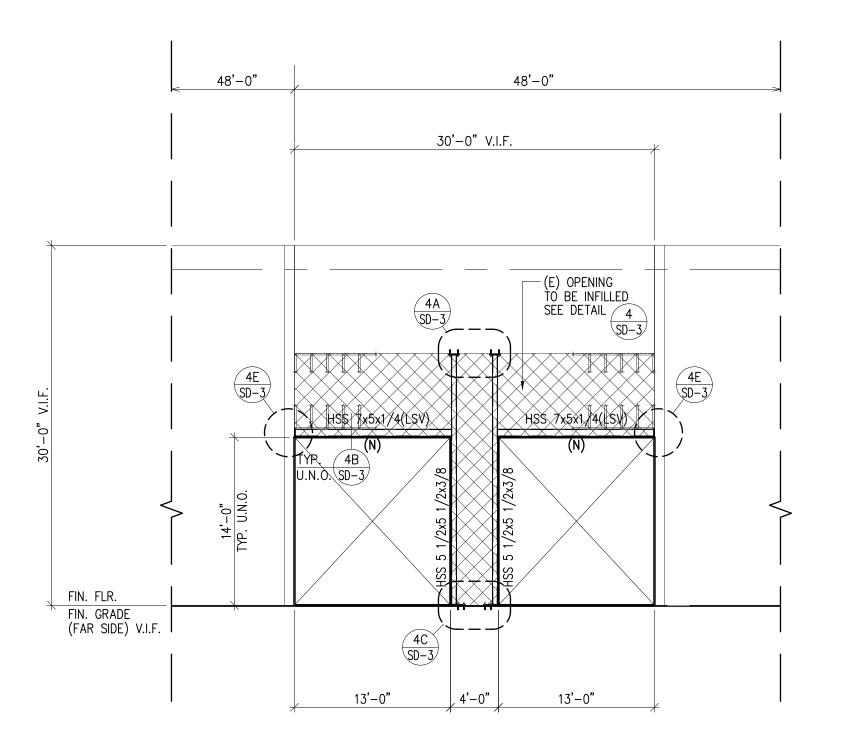
(E) 20'-0" V.I.F. 9'-0"



MAIN BUILDING
PARTIAL EXISTING NORTH PANEL ELEVATIONS
SCALE: 1/8" = 1'-0"



PARKING GARAGE - WEST
PARTIAL EXISTING EAST PANEL ELEVATIONS
SCALE: 1/8" = 1'-0"



NOTES:

LEGEND:

(E) = EXISTING OPENING
 (N) = NEW OPENING
 ◆ = CORE SLEEVES

2. PANELS ARE VIEWED FROM INTERIOR.

DENOTES (E) OPENING TO BE INFILLED SEE DETAIL 10

TYPICAL SAW-CUT NOTES:

1. CORE SLEEVES ON EACH CORNER

BEFORE SAW-CUTTING EXISTING CONCRETE WALL.

NO OVERCUTTING SHALL BE ALLOWED. OTHER

METHODS OF CUTTING MAY BE ACCEPTABLE WITH

REVIEW AND APPROVAL FROM ENGINEER OF RECORD.

CONTRACTOR PRIOR TO SAW CUTTING OF OPENING.

2. ALL DIMENSIONS SHALL BE VERIFIED WITH

3. INSTALL STITCH PLATE & STEEL FRAMING BEFORE SAW-CUTTING OPENINGS.

SEQUENCE OF WORK:

PARKING GARAGE - EAST
PARTIAL EXISTING WEST PANEL ELEVATIONS

SCALE: 1/8" = 1'-0"



Owner:

Project:

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Tel: (626) 521-9931

HSA PROJECT NO.: 19-197



Title: (E) PANEL ELEVATIONS

- MAIN BUILDING

Project Number: 19436

Drawn by: ML

Date: 10/24/2019

Date: Revision:

Sheet:

S-3

GENERAL

- 1. "CODE" WHERE REFERRED TO HERE IN REFERS TO CALIFORNIA BUILDING CODE (CBC) 2016 EDITION
- 2. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CODE. AND ALL APPLICABLE LOCAL AND STATE CODES AND ORDINANCES.
- 3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS. ANY CHANGES OR SUBSTITUTIONS MADE MUST BE APPROVED BY THE BUILDING OFFICIAL, AS WELL AS THE ENGINEER OF RECORD, PRIOR TO INSTALLATION.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING, BRACING AND GUYS DURING CONSTRUCTION. SAFETY AND BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK
- ALL DIMENSIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES. 6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS REQUIRED FOR DUCTS, PIPES AND FOR ALL PIPE SLEEVES, ELECTRICAL CONDUITS AND OTHER ITEMS TO BE EMBEDDED
- IN CONCRETE OR OTHERWISE INCORPORATED IN STRUCTURAL WORK. 7. IN ALL CASES WHERE A CONFLICT MAY OCCUR, SUCH AS BETWEEN ITEMS COVERED IN SPECIFICATIONS AND NOTES ON THE DRAWINGS OR BETWEEN GENERAL NOTES AND SPECIFIC DETAILS, THE ENGINEER SHALL BE
- NOTIFIED AND HE WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS. 8. WHERE CONSTRUCTION MATERIALS ARE TEMPORARILY STORED ON ROOF OR FLOOR FRAMING, THEY SHALL BE
- DISTRIBUTED SO THAT THE LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD. 9. THE GEOTECHNICAL REPORT IS CONSIDERED A PART OF THESE PLANS. A COPY SHALL BE KEPT AT THE JOB SITE AT
- ALL TIMES. ANY SUGGESTED "SHOULD" ACTION GIVEN IN THE GEOTECHNICAL REPORT SHALL BE TAKEN AS A DIRECTIVE
- 10. CONTRACTOR WILL SET UP A PRE-CONSTRUCTION MEETINGS WITH ARCHITECT, STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER PRIOR TO START OF CONSTRUCTION.

ALL SHOP DRAWING SUBMITTAL BY CONTRACTOR SHOULD BE SUBMITTED ON HARDCOPIES/PRINTS. ELECTRONIC COPY OF THE SHOP DRAWINGS VIA E-MAIL WILL BE ACCEPTABLE TOO.

DESIGN CRITERIA

OCCUPANCY CATEGORY $= \mathbb{I}$ SEISMIC DESIGN CATEGORY = DREDUNDANCY FACTOR, $\mathcal{P} = 1.0$ SEISMIC IMPORTANCE FACTOR, $I_{F} = 1.0$ $S_S = 1.923g$ $S_{DS} = 1.282g$ $S_1 = 0.682g$ $S_{D1} = 0.682g$ ULTIMATE WIND SPEED (VULT)

FOUNDATION

WIND EXPOSURE

NOMINAL WIND SPEED (VASD)

IMPORTANCE FACTOR (I_w)

1. THE FOUNDATION DESIGN IS BASED ON THE MINIMUM SOIL BEARING PRESSURE PER 2016 CBC.

= 110 MPH

= 85 MPH

= C

= 1.0

- 2. ALL FOOTINGS EXCAVATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER AND BUILDING DEPARTMENT PRIOR TO POURING CONCRETE.
- 3. THE ALLOWABLE SOIL BEARING VALUE USED FOR THE DESIGN OF FOOTINGS UPON COMPACTED EARTH BELOW LOWEST FINISHED GRADE IS 1500 PSF.

CONCRETE

- 1. CEMENT: TYPE II CONFORMING TO ASTM C150 AND SHALL BE TESTED.
- 2. ALL CONCRETE AGGREGATES UNLESS OTHERWISE NOTED ON PLANS, SHALL BE REGULAR WEIGHT HARD ROCK TYPE (150 LB/CU. FT.) AND SHALL CONFORM TO ASTM C33. CONCRETE SHALL HAVE PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.05% ULTIMATE AT 28 DAYS AS PER ASTM C157. DO NOT CHANGE SOURCE OF AGGREGATE DURING
- COURSE OF WORK WITHOUT PRIOR WRITTEN ACCEPTANCE OF THE ARCHITECT.
- 3. STRENGTHS: ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE f'c = * SEE BELOW. 4. VIBRATION: VIBRATION OF CONCRETE SHALL BE IN ACCORDANCE WITH GENERAL PROVISIONS OUTLINED IN
- PORTLAND CEMENT ASSOCIATION SPECIFICATION ST26.
- 5. CURING: CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER ITS PLACEMENT. FOR CONCRETE OTHER THAN SLAB ON GRADE, APPROVED CURING COMPOUNDS MAY BE IN LIEU
- OF MOIST CURING. IF APPROVED BY THE OWNER AND ARCHITECT
- 6. STRENGTH TESTS OF CONCRETE SHALL BE REQUIRED AS PER CBC SECTION 1903, ACI 318-14 SECTION 26.12 AND AS OUTLINED IN SPECIFICATION REPORTS SHALL BE FORWARDED TO THE STRUCTURAL ENGINEER. A MINIMUM OF ONE TEST (6x12 IN. CYLINDER) AT 7 DAYS AND 2 TESTS (6x12 IN. CYLINDERS) OR 3 TESTS (4x8 IN. CYLINDERS) AT 28 DAYS ARE REQUIRED FOR ALL CONCRETE SAMPLES TAKEN IN ACCORDANCE WITH (1) THROUGH (3): (1) AT LEAST ONCE A DAY. (2) AL LEAST ONCE FOR EACH 150 CU. YDS OF CONCRETE (3) AT LEAST ONCE FOR EACH 5,000 SQ. FT. OF SURFACE AREA FOR SLABS OR WALLS.
- 7. REINFORCING STEEL, ANCHOR BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE.
- 8. LOCATION OF CONSTRUCTION AND POUR JOINTS SHALL BE APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO POURING CONCRETE.
- NO FLY ASH SHALL BE USED IN CONCRETE.
- 10. CONCRETE FORM WORK TOLERANCES SHALL BE IN ACCORDANCE WITH CBC AND ACI STANDARDS
- 11. GROUT UNDER PRECAST CONCRETE PANELS SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH TO MATCH PANEL OF HIGHEST STRENGTH.
- 12. HOT AND COLD WEATHER CONCRETING:
- A. HOT WEATHER CONCRETING: WHEN THE TEMPERATURE RISES ABOVE 80°F AND ESPECIALLY WHEN THE RELATIVE HUMIDITY FALLS BELOW 25%, THE CONTRACTOR SHOULD FOLLOW HOT WEATHER CONCRETING IN ACCORDANCE WITH ACI 305R (LATEST EDITION) DURING HOT WEATHER. BE PREPARED TO USE FOG SPRAY OR OTHER PRECAUTIONS ACCEPTABLE TO ARCHITECT WHEN RATE OF EVAPORATION EQUALS OR EXCEEDS 0.2 POUNDS PER SQUARE FOOT PER HOUR. REFER TO SURFACE EVAPORATION CHART ON THIS SHEET TO ESTIMATE RATE OF SURFACE UNDER EVAPORATION.
- B. COLD WEATHER CONCRETE: ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER. ALL CONCRETE MATERIALS AND ALL REINFORCEMENT FORMS, FILLERS AND GROUND WITH WHICH THE CONCRETE IS TO COME IN CONTACT SHALL BE FREE FROM FROST. FROZEN MATERIAL OR MATERIALS CONTAINING ICE SHALL NOT BE

USED. COLD WEATHER CONDITIONS WILL DONE IN ACCORDANCE WITH ACI 306R (LATEST EDITION). CONCRETE MIX DESIGN

S2 (SEVERE)

S3 (VERY SEVERE)

	<u>USE</u>	DESIGN	MIX DESIGN (f'c MIN. AT 28 DAYS)	MIX DESIGN (f'c MIN. AT 56 DAYS)	SLUMP	AGGREGATE LARGEST SIZE IN GRADATION	INSPECTION
1.	FOOTINGS	2500 PSI	3000 PSI	_	4" ± 1" MAX.	1½"	NO
2.	MISCELLANEOUS	2500 PSI	3000 PSI	_	$4" \pm 1" MAX.$	1"	NO
3.	CONCRETE TRUCK COURT SLAB	3000 PSI	3000 PSI	_	$4" \pm 1" MAX$.	1½"	YES

▼ PLUS

POZZOLONE

OR SLAG

4500 PSI

4500 PSI

- A. MIX DESIGN SHOWN ABOVE ARE FOR NEGLIGIBLE SULFATE EXPOSURE (SO).
- THE GEOTECHNICAL ENGINEER SHALL PROVIDE SULFATE EXPOSURE OF THE SITE. B. REQUIREMENTS FOR CONCRETE BY SULFATE EXPOSURE PER ACI 318, TABLE 19.3.2.1

SULFATE EXPOSURE | MAX WATER/CEMENT | CEMENT TYPE | f'c MIN. 2500 PSI SO (NEGLIGIBLE) S1 (MODERATE) 0.50 4000 PSI

0.45

0.45

CONCRETE SLAB ON GRADE

- SUBGRADE: A. TOP 12" OF PAD TO BE COMPACTED TO 95% OPTIMUM DENSITY WITH MAXIMUM 1% VARIANCE. CERTIFICATION MUST BE 24 HOURS BEFORE POURING CONCRETE. THE SUBGRADE BELOW THIS SHOULD BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS.
- B. FINISH SUBGRADE PAD ELEVATIONS BEFORE CONCRETE POUR TO BE WITHIN 0 INCH ABOVE OR 1/2 INCH BELOW REQUIRED ELEVATION. C. PAD MUST BE MOIST PRIOR TO CONCRETE POUR AND BE FREE OF DEBRIS.
- 2. CONCRETE MIX AND MATERIALS:
- A. MIX DESIGNS FOR SLAB CONCRETE SHOULD BE PREPARED BY REGISTERED ENGINEER AND MUST BE APPROVED BY THE ARCHITECT/ENGINEER. MIX DESIGN SHOULD INCLUDE PROPORTIONS FOR EACH MATERIAL. B. CEMENT SHALL BE TYPE II U.N.O. AND TESTED PER ASTM STANDARDS. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER/ARCHITECT ALONG WITH MIX DESIGN.
- C. NO FLY ASH SHALL BE USED IN CONCRETE. D. CONCRETE MUST BE BATCHED FROM THE SAME CONCRETE BATCHING PLANT AND FROM THE SAME AGGREGATE STROKE FOR ALL SLAB CONCRETE.
- E. SLUMP SHALL NOT VARY MORE THAN 1/2 INCH FROM TRUCK TO TRUCK.
- F. AGGREGATE: UNLESS CONCRETE IS TO BE PUMPED INCORPORATE A PERCENTAGE OF 1 1/2" MAXIMUM SIZE AGGREGATE IN MIX.
- 3. CONCRETE CURING: A. ALL CURING TO BE DONE SHALL BE WET CURING BY USING BURLENE FOR A MINIMUM OF 7 DAYS FROM THE TIME CONCRETE IS POURED.
- 4. QUALITY CONTROL: A. CONCRETE TRUCKS OR CRANES WILL NOT BE PERMITTED ON SLAB AT ANYTIME.
- B. WITHIN 2 WEEKS AFTER COMPLETION OF SLAB INSTALLATION, THE TESTING AGENCY WILL ISSUE A FINAL REPORT CERTIFYING COMPLIANCE OF THE FLOOR SLAB INSTALLATION WITH THE SPECIFIED TOLERANCES. 5. PERIODIC SPECIAL INSPECTION REQUIRED FOR ALL SLAB ON GRADE.

REINFORCING STEEL

- 1. A. ALL REINFORCING STEEL TO CONFORM TO ASTM SPECIFICATION A615 GRADE 60 UNLESS NOTED OTHERWISE ON PLANS. B. DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A615. C. ALL REINFORCEMENT TO BE WELDED SHALL CONFORM TO ASTM A706
- 2. UNLESS OTHERWISE NOTED, ALL REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 64d (#3 THRU #6) AND 80db (#7 THRU #11). ALL SPLICES SHALL BE LOCATED AS DETAILED IN PLANS.
- 3. CERTIFICATION AND TESTING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF ASTM STANDARDS.
- 4. ALL REINFORCING STEEL SHALL BE SUPPORTED AND TIED IN CONFORMANCE WITH "THE MANUAL OF REINFORCING STEEL PRACTICE FOR REINFORCED CONCRETE STRUCTURES" LATEST EDITION. 5. PROVIDE THE FOLLOWING MINIMUM PROTECTIVE COVERING OF CONCRETE UNLESS OTHERWISE NOTED:
- 6. WELDED WIRE REINFORCEMENT SHALL BE DEFORMED BARS CONFORMING TO ASTM A 1064 (GRADE 80)

STRUCTURAL STEEL

DEPOSITED AGAINST EARTH 3" CLEAR

IN CONTACT WITH EARTH (FORMED) 2" CLEAR

- . STRUCTURAL STEEL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 U.N.C ALL STEEL BENT PLATES, CHANNELS AND ANGLES SHALL BE ASTM A36 WITH MAXIMUM Fy=46 KSI AND MAXIMUM Fu=80 KSI. STEEL W- SHAPES SHALL CONFORM TO ASTM A992 U.N.O.
- STEEL RECTANGULAR AND SQUARE H.S.S. SHALL CONFORM TO ASTM A500, GRADE B, Fy=46 KSI U.N.O. STEEL ROUND H.S.S. SHALL CONFORM TO ASTM A500, GRADE B, Fy=42 KSI U.N.O. STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B, Fy=35 KSI U.N.O.
- ALL WELDING IS TO COMPLY WITH A.W.S. SPECIFICATIONS AND IS TO BE DONE BY WELDERS APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY. ALL WELDING WILL BE DONE BY ELECTRONIC ARC PROCESS USING E70XX ELECTRODES AND SHALL BE PERFORMED WITH APPROVED ELECTRODES AS REQUIRED BY THE AISC SPECIFICATION. WELDS ARE DESIGNED AT FULL STRESS AND MUST BE DONE IN THE SHOP OF A LICENSED FABRICATOR EXCEPT WHERE OTHERWISE NOTED ON PLANS. SPECIAL INSPECTION IS REQUIRED FOR FIELD WELDS.
- 3. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED BY A LICENSED FABRICATOR, APPROVED BY THE BUILDING DEPARTMENT AND IN CONFORMANCE WITH THE AISC SPECIFICATION FOR FABRICATION.
- 4. SHOP DRAWINGS FOR ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER. APPROVAL MUST BE OBTAINED PRIOR TO FABRICATION.
- 5. ALL GROUT UNDER STEEL BEARING PLATES SHALL BE SOLID DRY PACK OR NON-SHRINK GROUT PLACED AS
- DIRECTED BY THE MANUFACTURER. MINIMUM COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS. 6. AT RECESSED EMBEDED PLATES, TACK WELD WIRE FABRIC TO ALL EMBEDS AND FILL WITH NON-SHRINK GROUT 7. ALL BOLTS SHALL CONFORM TO ASTM A307 UNLESS NOTED OTHERWISE
- 8. HIGH STRENGTH BOLTS WHERE SPECIFIED SHALL CONFORM TO ASTM A325 U.N.O. AND INSTALLATION SHALL
- BE INSPECTED BY A REGISTERED DEPUTY INSPECTOR APPROVED BY THE BUILDING DEPARTMENT 9. NUTS FOR STRUCTURAL STEEL BOLTS SHALL CONFORM TO ASTM A563.
- 10. WASHERS FOR STRUCTURAL STEEL BOLTS SHALL CONFORM TO ASTM F436.
- 11. THREADED RODS SHALL CONFORM TO ASTM A36. 12. ANCHOR BOLTS FOR BUCKLING-RESTRAINED BRACE FRAME SHALL CONFORM TO ASTM F1554 GR.105
- 13. LIGHT GAUGE STRUCTURAL STEEL MEMBERS SHALL CONFORM TO ASTM A1011.
- 14. ALL EXPOSED STEEL SHALL BE PAINTED WITH SHOP PRIMER. 15. SEE ROOF FRAMING PLAN FOR BAR JOIST SPECIFICATIONS.
- 16. THE USE OF ROLLED STEEL SECTION AND/OR BOLTS MANUFACTURED OUTSIDE THE UNITED STATES WILL REQUIRE VERIFICATION THAT THE PRODUCTS COMPLY WITH APPLICABLE ASTM STANDARDS. MILL CERTIFICATES WILL BE REQUIRED FOR ALL STEEL. STEEL GRADES OTHER THAN ASTM A36 WILL REQUIRE TESTING BY AN APPROVED LABORATORY. ALL FOREIGN BOLTS MUST BE APPROVED BY COUNTY BUILDING AND SAFETY PRIOR TO THEIR USE.

EPOXY WORK

- 1. ALL ANCHORS TO BE A307 ALL THREAD BOLTS MIN. EMBEDMENT = 4" MIN. U.N.O. FOR ALL WALL. A. USE HIT-RE 500-V3 ADHESIVE (ESR 3814) (LARR 26028) OR APPROVED EQUAL FOR CONCRETE U.N.O. B. USE HILTI HY-270 ADHESIVE (ESR-4143) OR APPROVED EQUAL FOR FULLY GROUTED MASONRY U.N.O.
- 2. ALL THE EPOXY WORK WILL REQUIRE SPECIAL AND CONTINUOUS INSPECTION BY A CITY APPROVED DEPUTY

STRUCTURAL LUMBER

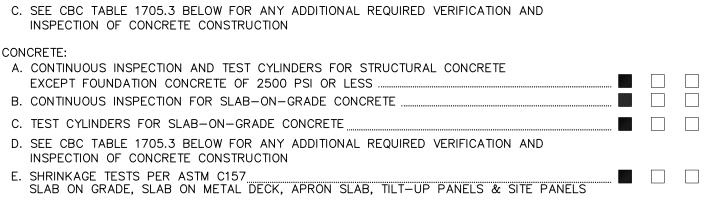
- ALL HORIZONTAL LOAD CARRYING MEMBERS AND POSTS SHALL BE DOUGLAS FIR-LARCH. SAWN LUMBER (4x AND SMALLER) SHALL HAVE A MOISTURE CONTENT NOT MORE THAN 19% AT TIME OF FABRICATION. GRADE NO. 1 A. 2 x 4
- GRADE NO. 1 TYPICAL U.N.O. B. 2 x 6 GRADE NO. 1 TYPICAL U.N.O. 4 x 6 POST GRADE NO. 1 TYPICAL U.N.O.
- 2. STUDS, PLATES, SILLS, AND BLOCKING SHALL BE DOUGLAS FIR-LARCH, CONSTRUCTION GRADE OR BETTER. 3. SILLS UNDER BEARING AND NON-BEARING STUD PARTITIONS SHALL BE PRESSURE TREATED DOUGLAS FIR BOLTED TO CONCRETE WITH 3/4" DIA. x 8" EMBED. ANCHOR BOLTS SPACED NOT MORE THAN 4'-0" O.C. UNLESS NOTED OTHERWISE. THERE SHALL BE ONE BOLT WITHIN 9" OF EACH END OF EACH SILL PIECE. MINIMUM OF
- 2 BOLTS PER PIECE.
- 4. BRIDGING SHALL BE PROVIDED AS PER CODE. 5. STANDARD STEEL WASHERS SHALL BE USED ON ALL HEADS AND NUTS BEARING ON WOOD.
- 6. FRAMING MEMBERS SHALL NOT BE NOTCHED IN ANY MANNER EXCEPT WHERE SPECIFICALLY DETAILED OR APPROVED BY THE ARCHITECT/ENGINEER AND BUILDING OFFICIAL.
- 7. MINIMUM NAILING FOR ALL WOOD MEMBERS SHALL BE AS PER CODE, UNLESS SPECIFICALLY NOTED. ALL NAILS SHALL BE COMMON WIRE NAILS U.N.O. NAILING FOR ROOF AND FLOOR SHEATHING SHALL HAVE EXACTLY 1 1/2" PENETRATION INTO FRAMING MEMBERS.
- 8. STRUCTURAL SHEATHING SHALL BE APA RATED, STRUCTURAL I, THICKNESS AS NOTED ON PLANS WITH EXTERIOR GLUE CONFORMING TO PRODUCT STANDARD PS1-09. OSB SHALL CONFORM TO PS2-04. EACH SHEET SHALL BE IDENTIFIED BY A REGISTERED STAMP OR BRAND. USE MINIMUM 5-PLY FOR SHEAR WALL
- 9. EDGES OF ALL OPENINGS THROUGH THE ROOF SHALL BE NAILED PER BOUNDARY NAIL SPACING OF THE DIAPHRAGM NAILING REQUIREMENTS.
- 10. ALL WOOD BEARING ON CONCRETE OR MASONRY WITHIN 48" FROM FINISH FLOOR SHALL BE PRESSURE TREATED
- 11. JOISTS HANGERS AND OTHER CONNECTIONS SHALL BE SIMPSON TYPE OR EQUAL AND INSTALLED PER THE APPROVED ICC REPORT.
- 12. INDIVIDUAL PIECES OF SHEATHING SHALL NOT BE LESS THAN 1'-0" IN THEIR SHORTEST PLAN DIRECTION, NOR LESS THAN 8 SQ. FT. IN AREA. ALL SHEATHING EDGES SHALL BE SUPPORTED WITH BLOCKING AND EDGE NAILING.

13. ALL GLU LAMINATED MEMBERS SHALL BE IN ACCORDANCE WITH AITC A190.1

STATEMENT OF SPECIAL INSPECTION AND STRUCTURAL TEST

- 1. THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTOR'S DUTIES ARE AS DESCRIBED IN SEC. 1704.2 AND 1704.3 OF CBC COPIES OF TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THIS ENGINEER IN ADDITION TO OTHER NORMAL DISTRIBUTIONS WITHIN ONE WEEK OF TEST OR INSPECTION.
- 2. ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY EMPLOYED BY THE OWNER OR ARCHITECT AND NOT THE CONTRACTOR PER CBC SECTION 1703. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE A SPECIAL INSPECTION. THE FIRM PROVIDING SPECIAL INSPECTION SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. (NOTE: FOUNDATION INSPECTIONS LISTED BELOW ARE PROVIDED BY AN INSPECTOR DESIGNATED BY OTHERS)
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND INSPECTION FIRM WITH A SCHEDULE TO FACILITATE THE PROPER COORDINATION OF WORK.
- 4. SPECIAL INSPECTION FOR SEISMIC RESISTANCE FOR DESIGN CATEGORY C,D,E & F SHALL BE DONE IN ACCORDANCE TO SECTION 1705.12

5. PORTIONS OF WORK REQUIRING SPECIAL INSPECTION: YES NO N/A I. FOUNDATION: A. COMPACTED FILL, GRADING AND EXCAVATIONS . B. CONTINUOUS INSPECTION OF PILE DRIVING AND/OR DRILLING C. SEE CBC TABLE 1705.3 BELOW FOR ANY ADDITIONAL REQUIRED VERIFICATION AND



- III. REINFORCING STEEL: A. PLACING OF REINFORCING B. SAMPLING AND TESTING OF STEEL (MILL REPORTS AND IDENTIFICATION OF STEEL) C. SEE CBC TABLE 1705.3 BELOW FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION IV. MASONRY: A. CONTINUOUS INSPECTION ... B. MASONRY PRISM TESTING PER ASTM C 1314 AND 2105.3 C. SEE TABLE 3.1.2 OF TMS 602-13/ACI 530.1-13/ASCE 5-13 BELOW FOR ANY ADDITIONAL
- REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION A. MILL REPORTS AND IDENTIFICATION OF STEEL (AFFIDAVIT OF COMPLIANCE) B. SAMPLING AND TESTING OF SPECIMENS. C. SEE TABLES N5.4-1 THRU N5.4-3 AND TABLES N5.6-1 THRU N5.6-3 OF AISC 360-10

D. SEE TABLES J6-1 THRU J6-3, TABLES J7-1 THRU J7-3 AND TABLE J8-1 OF AISC 341-10 FOR

WITH TABLE 1705.2.3.

- ALL SEISMIC RESISTING STRUCTURAL STEEL ELEMENTS IN SEISMIC DESIGN CATEGORIES C,D,E & F. E. SPECIAL INSPECTIONS AND QUALIFICATION OF WELDING SPECIAL INSPECTORS FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC. F. SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE IN ACCORDANCE
- A. ALL STRUCTURAL WELDING (INCLUDES DECKING AND WELDED STUDS), EXCEPT WELDING IN APPROVED SHOPS PER CBC 1704.2.5.1 .. B. ULTRASONIC TESTING OF FULL PENETRATION WELD CONNECTIONS AT MOMENT FRAMES, BRACED FRAMES, BEAM SPLICES, AND FIELD WELDS. C. STRUCTURAL LIGHT GAGE METAL FRAME WELDING D. REINFORCING STEEL WELDING PER AISC 360-10 AND AISC 341-10 ... E. SEE TABLES N5.4-1 THRU N5.4-3 OF AISC 360-10 FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION
- F. SEE TABLES J6-1 THRU J6-3 OF AISC 341-10 FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF WELDING FOR SEISMIC DESIGN CATEGORY C,D,E & F. A. HIGH STRENGTH BOLT A325SC & A490SC (TORQUE VERIFICATION). B. HIGH STRENGTH BOLT A325N & A490N (SNUG CONTACT OF PLYS)... C. EXPANSION/ADHESIVE ANCHORS IN CONCRETE OR MASONRY... D. ANCHOR BOLTS AT CONCRETE WALLS AND BRACED FRAMES, (BOLT INSTALLATION AND CONCRETE PLACEMENT)
- E. SEE TABLES N5.6-1 THRU N5.6-3 OF AISC 360-10 FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION. F. SEE TABLES J7-1 THRU J7-3 OF AISC 341-10 FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF BOLTING FOR SEISMIC DESIGN CATEGORY C,D,E & F. VIII. INSULATING CONCRETE FILL:
- TEST CYLINDERS AND INSPECTIONS IX. APA RATED SHEATHING DIAPHRAGM WITH NAILING ZONE "B" TO "G" AND PLYWOOD SHEAR WALLS. INSPECTION OF SHEATHING, NAIL DIAMETER & LENGTH, NAILING LINES, NAIL SPACING, AND FRAMING WIDTH AT NAIL DIAMETER & LENGTH, NAILING LINES, NAIL SPACING, AND FRAMING WIDTH AT ADJOINING EDGES, PANEL, EDGES, VERIFY APA STAMP, DRAG STRUTS, SILL ANCHORAGE AND HOLDDOWN ANCHORS
- PRECAST CONCRETE ETC. .. 7. STRUCTURAL OBSERVATIONS REQUIRED... AS BY THIS ENGINEER OR THE BUILDING DEPARTMENT, THE OWNER SHALL EMPLOY AN ENGINEER APPROVED BY THIS ENGINEER TO

6. APPROVED FABRICATORS: (MUST SUBMIT CERTIFICATE OF COMPLIANCE)

FOR ALL OFFSITE FABRICATION SUCH AS STRUCTURAL STEEL, GLU-LAMS.

PERFORMED STRUCTURAL OBSERVATION AS DEFINED IN CBC SECTION 1704.6 8. EACH CONTRACTOR OR SUB-CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM / COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

STRUCTURAL OBSERVATION NOTES PER CBC SECTION 1704.6

- 1. THE FOLLOWING ITEMS REQUIRE STRUCTURAL OBSERVATION BY A LICENSED ENGINEER OR ARCHITECT. A. FOUNDATION REINFORCEMENT PLACEMENT (FIRST POUR AND RANDOM INTERMITTENT POURS)
- 2. THE OWNER SHALL EMPLOY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN OR ANOTHER ENGINEER OR ARCHITECT DESIGNATED BY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN TO PERFORM STRUCTURAL OBSERVATION AS DEFINED IN CBC SECTION 220. 3. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL
- INSPECTOR, CONTRACTOR AND THE BUILDING OFFICIAL. 4. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.
- 5. IT IS NOT REQUIRED TO OBSERVE THE ELEMENTS NOTED IN "1A" THRU "1G" ABOVE FOR EACH INDIVIDUAL BUILDING.

TABLE 1705.2.3 (CBC-2016) REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

SPECIFICATIONS LISTED IN SECTION 2207.1

CONTINUOUS PERIODI SPECIAL | SPECIAL REFERENCED STANDARD INSPECTION | INSPECTION . INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS. a. END CONNECTIONS — WELDING OR BOLTED. SJI SPECIFICATIONS LISTED IN SECTION 2207.1. b. BRIDGING — HORIZONTAL OR DIAGONAL SJI SPECIFICATIONS LISTED IN 1. STANDARD BRIDGING. SECTION 2207.1. 2. BRIDGING THAT DIFFERS FROM THE SJI

FOR SI: 1 INCH=25.4 mm. a: WHERE APPLICABLE, SEE ALSO SECTION 1705.12, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.

TABLE 1705.3 (CBC-2016)

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARDS ^a	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	_	х	ACI 318: CH. 20, 25.2 25.3, 26.5.1-26.5.3	1908.4
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	_	Х	AWS D1.4	
b. INSPECT SINGLE—PASS FILLET WELDS, MAXIMUM 5/16"; ANDc. INSPECT ALL OTHER WELDS.	X	X	ACI 318: 26.5.4	_
3. INSPECTION OF ANCHORS CAST IN CONCRETE.	_	Х	ACI 318:17.8.2	_
4. INSPECT ANCHORS POST—INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	х		ACI 318: 17.8.2.4	_
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.		Х	ACI 318:17.8.2	
5. VERIFYING USE OF REQUIRED DESIGN MIX.	_	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.3
6. AT THE TIME OF FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	х	_	ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.12	1908.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Х	_	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
8. INSPECTION OF MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	_	Х	ACI 318: 26.4.7-26.4.9	1908.9
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING	x	_	ACI 318: 26.9.2.1	_
TENDONS.	X	<u> </u>	ACI 318: 26.9.2.3	
10. ERECTION OF PRECAST CONCRETE MEMBERS.	_	Х	ACI 318: CH. 26.8	_
I1. VERIFICATION OF IN—SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST—TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	_	Х	ACI 318: 26.10.2	_
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	_	x	ACI 318: 26.10.1(b)	_

a: WHERE APPLICABLE, SEE ALSO SECTION 1705.12, SPECIAL INSPECTION FOR SEISMIC RESISTANCE b: SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED. SPECIAL INSPECTION SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK.

TABLE 1705.6 (CBC-2016) REQUIRED VERIFICATION AND INSPECTION OF SOILS

CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
_	Х
_	Х
_	Х
X	_
_	Х
	— —



18831 bardeen avenue, - ste. #100 irvine, ca tel: 949 •863 •1770 fax: 949 • 863 • 0851 email: hpa@hparchs.com



Project:

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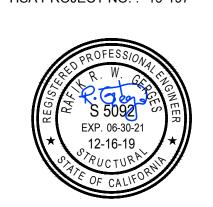
950 FRANCISCO ST TORRANCE, CA



ISA & ASSOCIATES. IN(CONSULTING STRUCTURAL ENGINEERS 1906 W. Garvey Ave. S. West Covina, CA. 91790

HSA PROJECT NO.: 19-197

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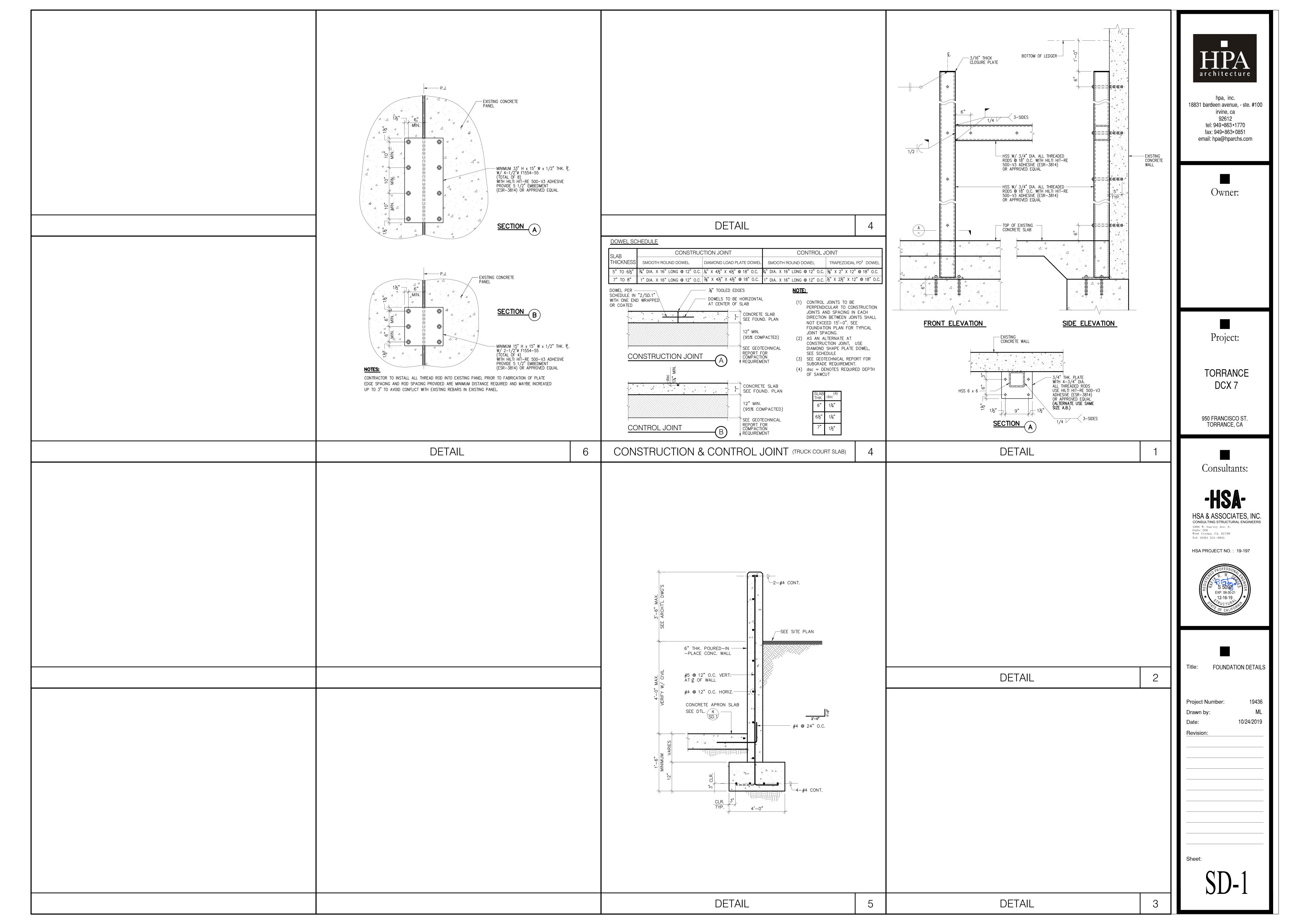
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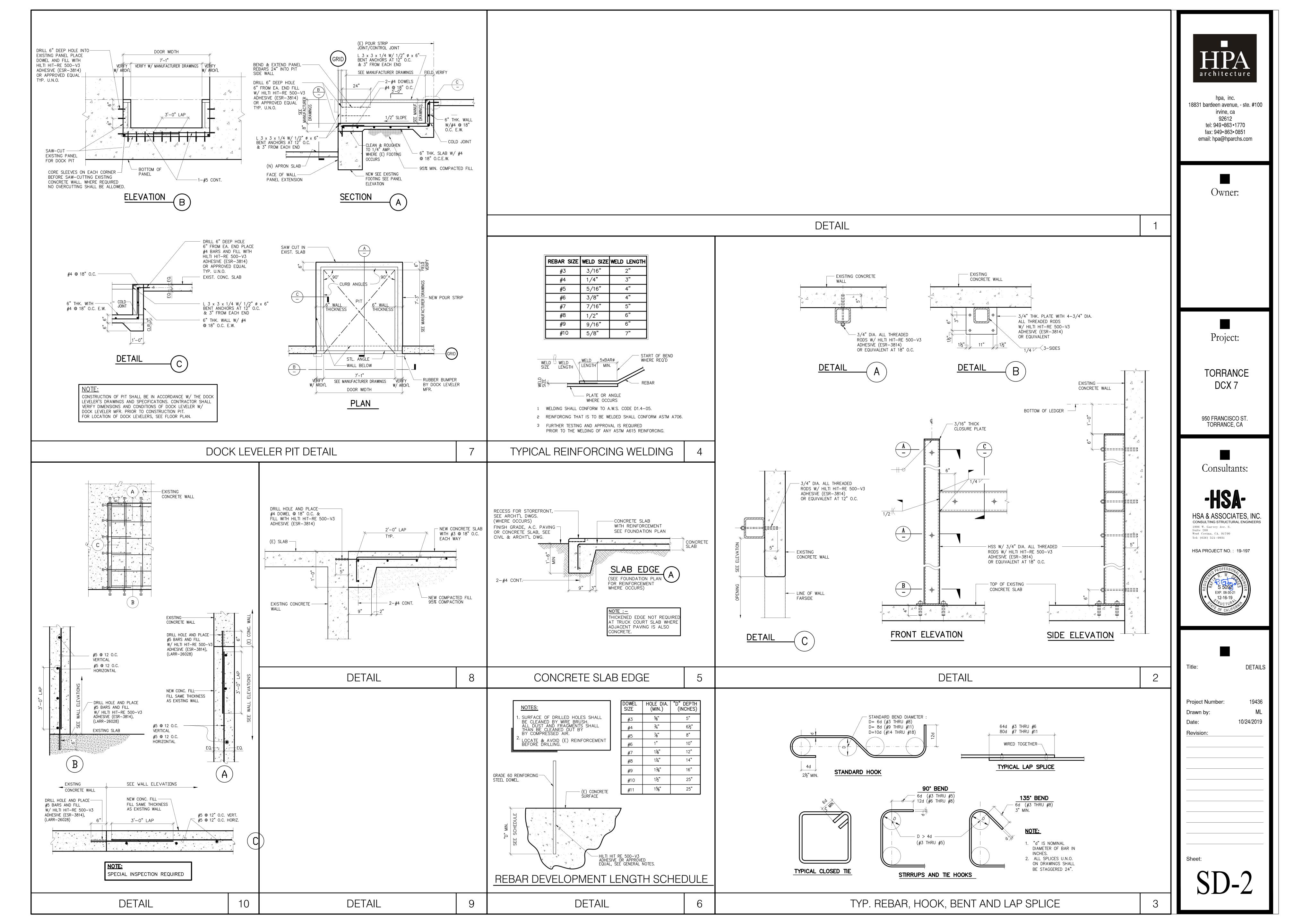
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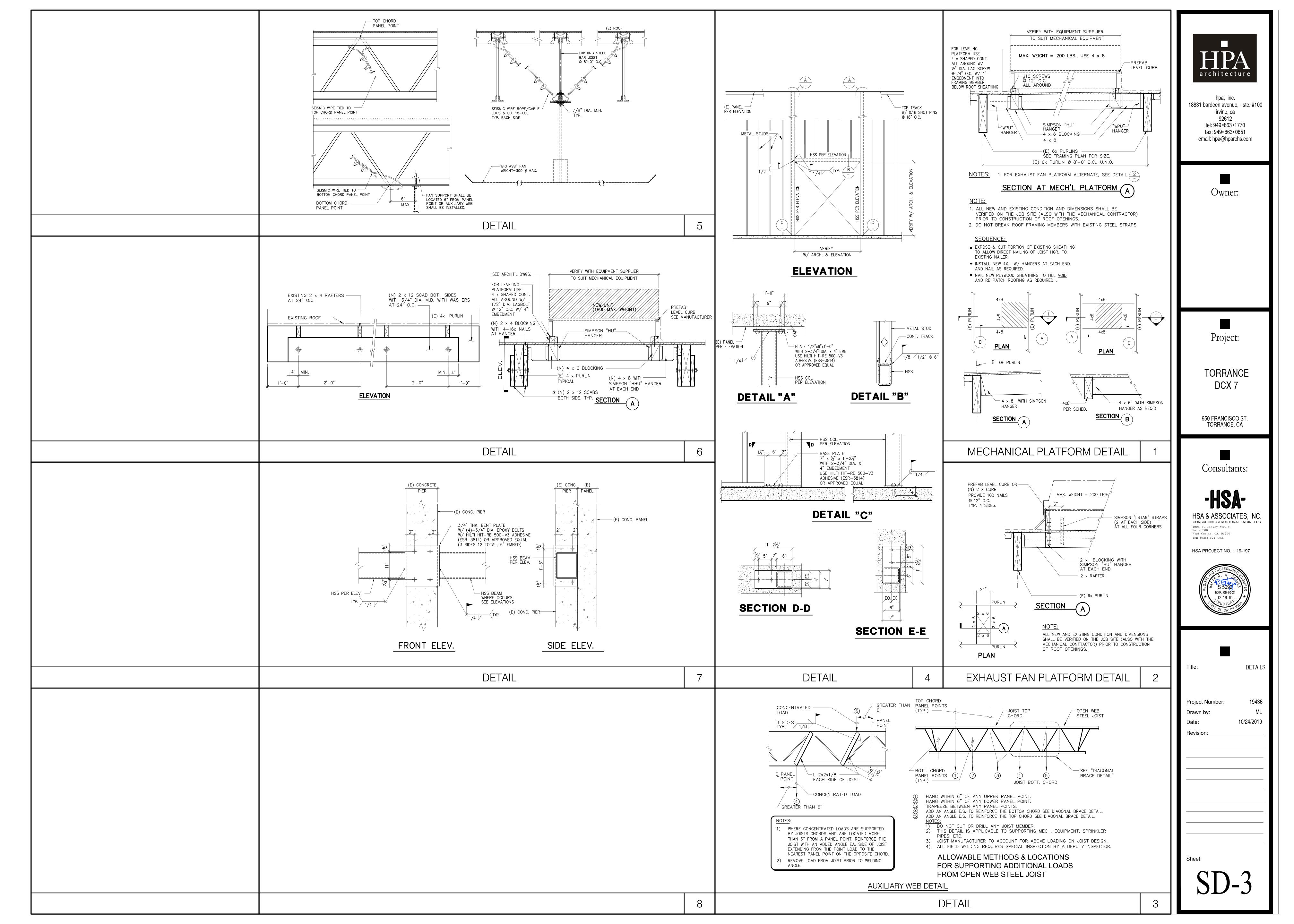
GENERAL NOTES

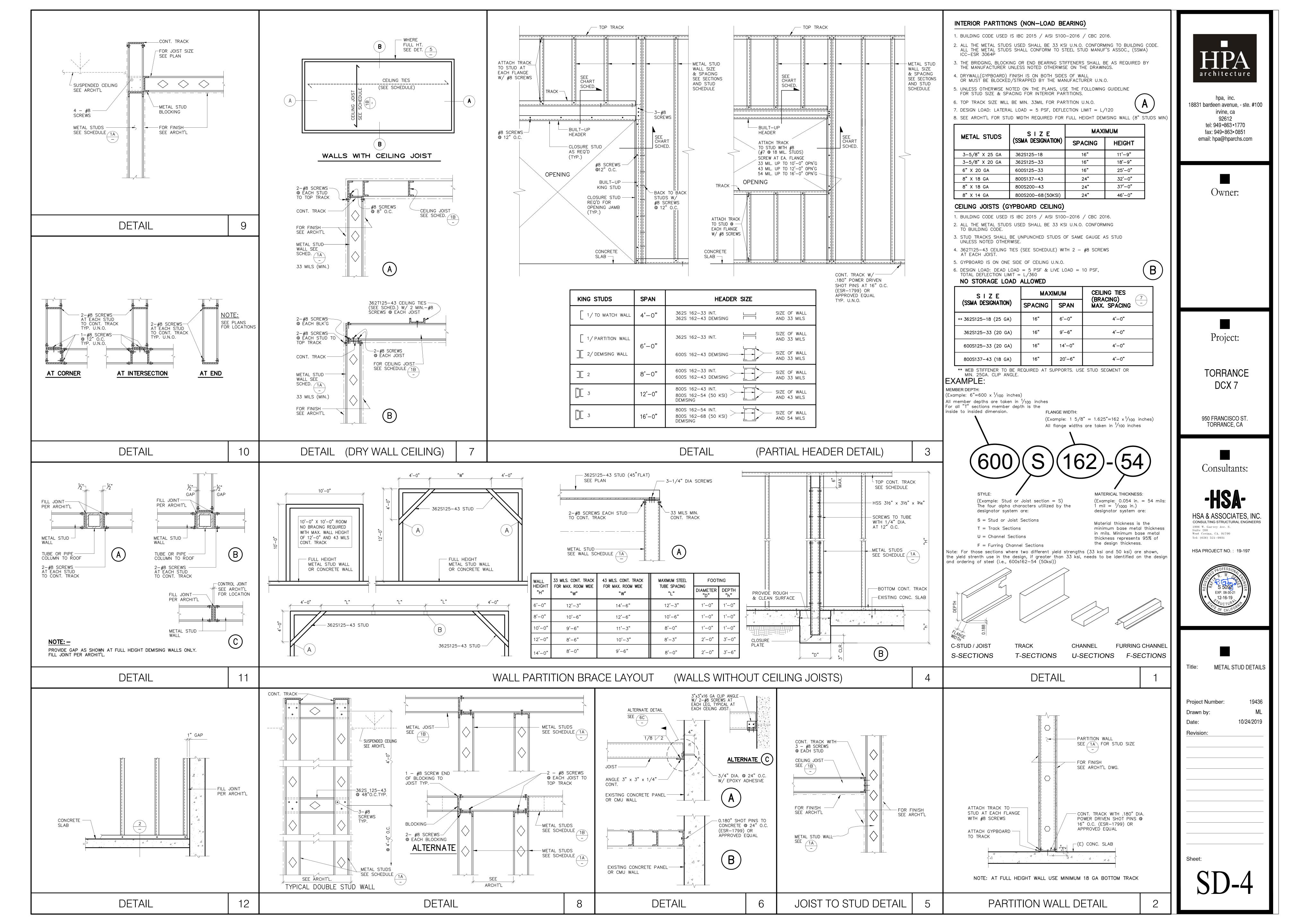
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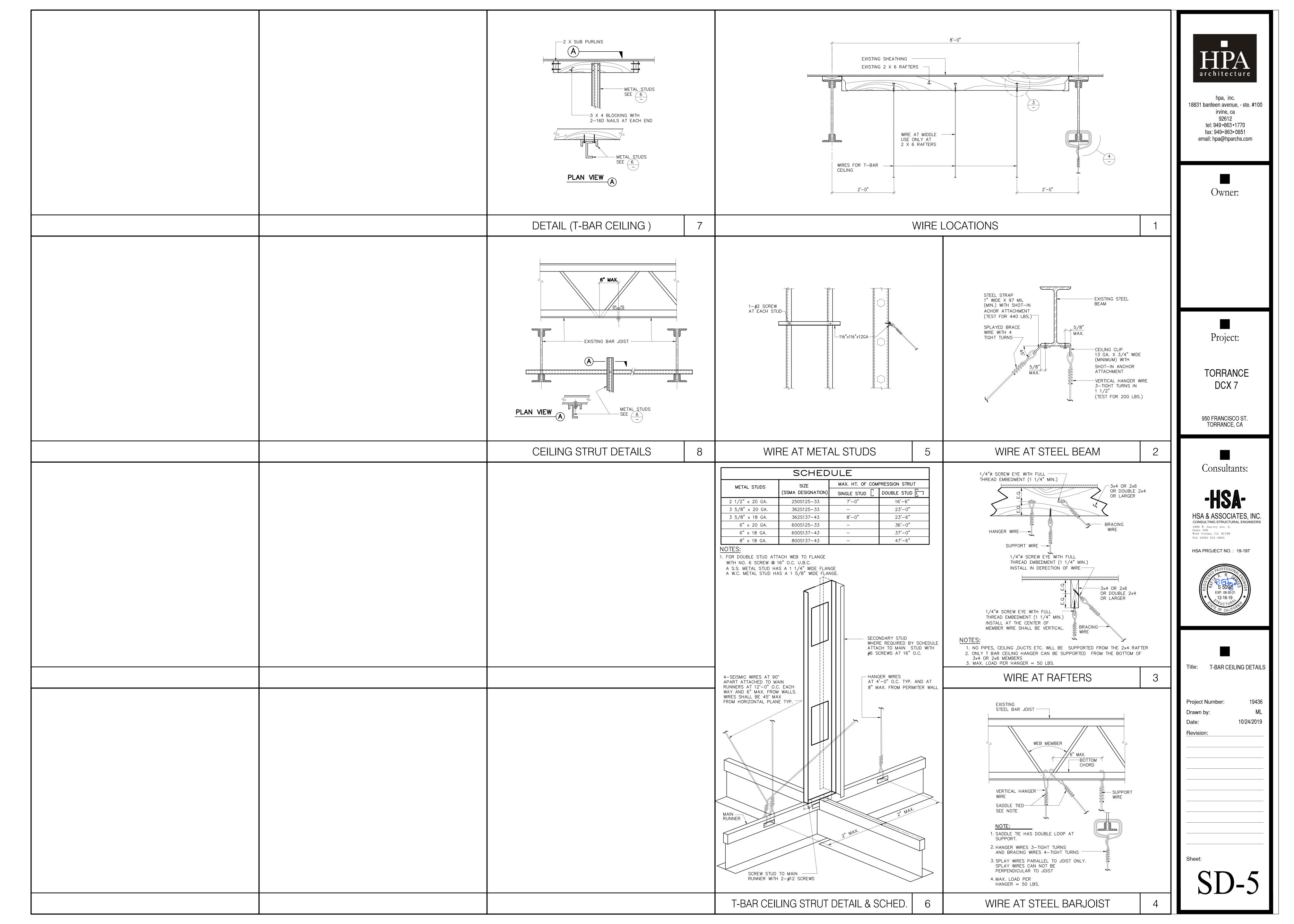
Project Number: Drawn by 10/24/201 Date:











A. SCOPE			
 INSTALL NEW ROOFTOP PACKAGED UNITS, FANS, GRAVITY VENTS, AIR DISTRIBUTION, AND CONTROLS. METAL DUCTWORK, ELBOWS, AND ALL FITTINGS. 	SYMBOL ABBREVIATION DESCRIPTION AD, AP ACCESS DOOR, ACCESS PANEL	LIEATING OAD	NITS WITH GAS HEATING ELECTRICAL OPER. WT. SUITEDS DEMANUS
3. DIFFUSERS, REGISTERS, GRILLES. 4. DUCT INSULATION.	AFF ABOVE FINISHED FLOOR	UNIT NO. TONS MANOFACTORER COOLING CAP. SEER BTU/HR. [EER] BTU/HR. AFOE CFM E.S.P. (I	N.) MCA FUSE VOLTAGE (LBS.) FILTERS (MERV-8) REMARKS
5. HVAC CONTROL SYSTEMS. 6. TESTING AND BALANCING. 7. PERMITS AND INSPECTIONS.	BRANCH DUCT	AC AC 10 CARRIER 48HCED12 115,000 [11.5] 180,000 82% 4,000 0.8	26 30 460V. 3ø 1,530 4-20"x20"x2" SEE NOTES: 1, 2, 3, 5, 6, 7, 9.
B. RELATED WORK SPECIFIED IN OTHER SECTIONS	— ∃ CAP CAP CAP DUCTWORK — CD CD CONDENSATE DRAIN	AC 102A 8.5 CARRIER 48HCDD09 97,000 [12.0] 125,000 82% 3,400 0.8	22 25 460V. 3ø 1,380 4-20"x20"x2" SEE NOTES: 1, 2, 3, 5, 6, 7, 8.
 DISCONNECT SWITCHES AND LINE VOLTAGE CONNECTIONS (BY ELECTRICAL). ALL LINE VOLTAGE WIRING AND CONDUIT (BY ELECTRICAL). 	—— CDWS, CDWR—— CDWS/R CONDENSER WATER SUPPLY, RETURN CU CONDENSING UNIT	AC 60A 5 CARRIER 48GCDM06 60,000 16.0 67,000 80% 2,000 0.8	13 20 460V. 3ø 800 4-16"x16"x2" SEE NOTES: 1, 3, 4, 5, 6, 7.
C. DRAWINGS 1. BECAUSE OF THE SMALL SCALE OF THESE DRAWINGS, IT IS NOT ALWAYS POSSIBLE TO INDICATE	— CHWS, CHWR— CHWS/R CHILLED WATER SUPPLY, RETURN CO CARBON MONOXIDE SENSOR	AC 3 CARRIER 48GCDM04 35,250 16.0 67,000 81% 1,200 0.8	10 15 460V. 3ø 700 2-16"x25"x2" SEE NOTES: 1, 3, 4, 6, 7.
ALL OFFSET, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID. NO ADDITIONAL	CO2 CARBON DIOXIDE SENSOR DCV DEMAND CONTROL VENTILATION	INTERLOCK AC120A, AC120B FOR GLOBAL SHUTDOWN UPON SMOKE DETECTION.	
COMPENSATION WILL BE MADE FOR EXTRA DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOB SITE AND/OR FAILURE TO DETERMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID.	DL DOOR LOUVER EA EXHAUST AIR	1. FACTORY CURB. 2. 2-SPEED INDOOR FAN MOTOR. 3. FOONOMIZER W. DRY RILL B. SENSOR AND EDD.	
2. ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE. D. CODE REQUIREMENTS	EAR, EAG EXHAUST AIR REGISTER, GRILLE EC EVAPORATIVE COOLER	 ECONOMIZER W/ DRY BULB SENSOR AND FDD. BAROMETRIC RELIEF. DEMAND CONTROL VENTILATION W/ CO2 SENSOR. DUCT SMOKE DETECTOR. 	
1. ALL WORK COVERED BY THIS SECTION OF THE SPECIFICATION SHALL CONFORM TO LATEST REQUIREMENTS OF THE NFPA, CBC, LOCAL BODY HAVING JURISDICTION.	EF EXHAUST FAN EH ELECTRIC HEATER	6. DUCT SMOKE DETECTOR. 7. BACNET CONTROL. COORDINATE W/ BMS VENDOR. 8. POWER EXHAUST PROVIDED BY MICROMETL. REQUIRES SEPARATE POWER CONNECTION. 460V 3ø, 9. POWER EXHAUST PROVIDED BY MICROMETL. REQUIRES SEPARATE POWER CONNECTION. 460V 3ø,	1 HP, FLA: 2.5, MCA: 3.1, MOCP: 5.6. OPER. WT. = 270#.
2. MECHANICAL, PLUMBING, AND ELECTRICAL ENGINEERING AND INSTALLATION SHALL COMPLY WITH THE 2016 CMC, 2016 CPC, AND 2016 CEC EDITION OF THE CODES.	FC FAN COIL FDD FAULT DETECTION AND DIAGNOSTICS	9. POWER EXHAUST PROVIDED BY MICROMETL. REQUIRES SEPARATE POWER CONNECTION. 460V 30,	2 HP, $\overline{\text{FLA}}$: 4.0, $\overline{\text{MCA}}$: 5.0, $\overline{\text{MOCP}}$: 9.0. OPER. WT. = 330 $\#$.
E. FEES, PERMITS, AND INSPECTIONS 1. CONTRACTOR MUST OBTAIN AND PAY FEES FOR PERMITS, LICENSES, INSPECTIONS, ETC., WHICH	FS FLOOR SINK GA GAUGE	OUTDOOR CONDENSI	NG HEATPUMP UNITS
ARE REQUIRED BY ANY LEGALLY CONSTITUTED AUTHORITY. 2. THE CONTRACTOR SHALL NOT ALLOW OR CAUSE ANY OF HIS WORK TO BE COVERED UP OR CLOSED IN UNTIL IT HAS BEEN INSPECTED, TESTED, AND APPROVED BY ALL AUTHORITIES HAVING	GF GAS FURNACE GV GRAVITY VENT	UNIT NO. TONS MANUFACTURER COOLING CAP. SEER HEATING CAP. HSPF LECT	REMARKS
JURISDICTION. SHOULD ANY OF HIS WORK BE COVERED UP OR CLOSED IN BEFORE SUCH INSPECTION, HE SHOULD, AT HIS OWN EXPENSE, UNCOVER THE WORK TO THE SATISFACTION OF	HP HEATPUMP, HORSEPOWER	MICA TOSE	MOUNTED ON PAD ON ROOF, CONDENSING UNIT FOR DUCTLESS
THE INSPECTION PARTY. ALL RELATED REPAIR WORK COST SHALL BE BORNE BY THIS CONTRACTOR.	● SFD SMOKE FIRE DAMPER	CU CU 3 LG LSU363HLV 34,000 17.5 38,000 10 19 30	208V. 1Ø 130 WALL MOUNT UNIT IN I.T. ROOM.
F. SITE CONDITIONS 1. CONTRACTOR SHALL ACQUAINT HIMSELF WITH THE SITE CONDITIONS AND VERIFY IN FIELD THE	SF SUPPLY FAN OBD OPPOSED BLADE DAMPER	DUCT FREE WALL M	MOUNT EVAPORATOR
EXACT LOCATIONS OF ALL UNDERGROUND AND ABOVE GROUND PIPING.	OSA OUTSIDE AIR POC POINT OF CONNECTION	LINIT NO MANUFACTURER AIR QUANTITY ELECTRICAL OPER. WT. R	EFRIGERANT MAX PIPE LENGTH REMARKS (FT.)
G. PRODUCTS 1. HVAC CONTROLS: THERMOSTATS SHALL BE VENSTAR T4800 OR EQUIVALENT WITH 7-DAY PROGRAMMABLE AUTO-CHANGEOVER FEATURES AND DEMAND RESPONSE. MOUNT THERMOSTATS	RA RETURN AIR RAR, RAG RETURN AIR REGISTER, GRILLE	MAX CIW L.S.F. TIF WICH TOSE VOLTAGE	
BETWEEN 3 TO 4 FT. ABOVE FINISHED FLOOR. HVAC EQUIPMENT SHALL BE BACNET READY FOR BUILDING AUTOMATION SYSTEM.	——RL, RS—— RL, RS REFRIGERANT LIQUID, SUCTION RTU ROOFTOP UNIT	TAY TBY ESNOOSHEV	WALL MOUNTED EVAPORATOR SERVING I.T. ROOM WITH CONDENSATE PUI REFRIGERANT PIPING SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATION. LOCKOUT HEATING (FOR COOLING ONLY). CONDENSATE PUMP MOUNTED ON WALL INJET SHALL BE BELOW
2. RIGID DUCTWORK: PROVIDE GALVANIZED STEEL DUCT. TRANSVERSE JOINTS ON ALL SUPPLY AND RETURN AIR DUCTS INSTALLED IN LOCATIONS WHERE AIR LEAKAGE WOULD BE NON-BENEFICIAL TO THE OCCUPIED AREA SHALL BE SEALED WITH 6 OZ. CANVAS SECURED IN PLACE WITH AN	SENSOR AND ZONE NO. SA SUPPLY AIR	P P LITTLE GIANT 1/30 0.24 120V. 1ø 1.2	CONDENSATE PUMP MOUNTED ON WALL. INLET SHALL BE BELOW COIL DRAIN OUTLET. PIPING SHOULD BE FLEXIBLE TUBING OR PIPE.
APPROVED LAGGING ADHESIVE, EC800 OR EQUAL DUCT SEALING COMPOUND OR DUCT TAPE. 3. FLEXIBLE DUCTWORK: THERMAFLEX M—KE OR APPROVED EQUAL AND SHALL CONFORM TO NFPA	SAR, SAG SUPPLY AIR REGISTER, GRILLE SD SMOKE DETECTOR	GAS-HEATED	QI IDDI V EANQ
BULLETIN #90-A. INSTALLATION OF FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL ONLY BE ALLOWED AT ENTRANCE TO DIFFUSER, SHALL BE NO MORE THAN 5 FEET IN	SLD SOUND LINED DUCTWORK S.O.V. SHUT-OFF VALVE		. WINTER LAT HEATING BOOK
LENGTH, AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS PER CMC 603.4.1. 4. DUCT MATERIALS: MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME—SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT	S.P. STATIC PRESSURE \$ SWITCH	& MODEL NO. S.P. HP MCA FUSE VOLTAGE (LBS.) (*F) (MBTUH) OF LINING
RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE PER APPLICABLE TESTING STANDARD. CMC 602.2.	T–STAT THERMOSTAT AND ZONE NO. TAB TESTING, ADJUSTING, AND BALANCING	SF GREENHECK DGX-115-H22 4,000 0.5" WAREHOUSE 3 6.3 15 460V. 3Ø 1,220	DETECTOR. INSULATED. 4—WAY DIFFUSER. OUTLET DAMPE
5. DUCT SUPPORTS AND HANGERS: RECTANGULAR DUCTS WITH A MAXIMUM SIDE NOT EXCEEDING 30" SHALL HAVE 1" WIDE 18 GAUGE METAL STRAPS. SUPPORT DUCT ON OPPOSITE SIDES WITH SHEET METAL SCREWS TO THE SIDES AND BOTTOM. ROUND DUCTS SHALL HAVE 1" WIDE	TG TRANSFER GRILLE TYP. TYPICAL	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	100% OSA. DIRECT GAS—FIRED HEATING. FACTORY CURB MERV—8 FILTER. REMOTE CONTROL. VFD. BIRDSCREEN. S DETECTOR. INSULATED. 4—WAY DIFFUSER. OUTLET DAMPI
STRAPS OF THE SAME GAUGE AS THE DUCTS. BRACE AND GUY TO PREVENT LATERAL AN HORIZONTAL MOVEMENT. VERTICAL DUCTS SHALL BE SUPPORTED BY GALVANIZED STEEL ANGLES	UC DOOR UNDERCUT VAV VARIABLE AIR VOLUME	ADDITIONAL REMARKS: 1. BACNET CONTROL COMPATIBLE. INTEGRATE W/ BUILDING AUTOMATION SYSTEM.	
AND SECURED TO THE DUCTS AND WALL SUPPORTS. SUPPORTS TO HAVE A MAXIMUM SPACING OF 12' PER SMACNA STANDARDS AND CHAPTER 6 OF THE 2016 CMC.	VAV BOX VAV BOX VAV DIFFUSER VAV DIFFUSER	EXHAUS	ST FANS
6. VOLUME DAMPERS: PROVIDE SINGLE BLADE VOLUME DAMPERS IN DUCTS CONSTRUCTED OF 22 GAUGE GALVANIZED STEEL FOR DUCTS SMALLER THAN 11 INCHES, 20 GAUGE FOR DUCTS SMALLER THAN 21 INCHES, AND 18 GAUGE FOR DUCTS LARGER THAN 21 INCHES. PROVIDE	VD VOLUME DAMPER VFD VARIABLE FREQUENCY DRIVE	MANUFACTURER AIR QUANTITY ELECTRICAL OPER. WT. ROO	F OPENING SERVICE DEMARKS
LOCKING HARDWARE AS REQUIRED. PROVIDE AND INSTALL ON ALL SUPPLY, RETURN, AND EXHAUST DUCTS AS SHOWN ON THE DRAWINGS. 7. FLEXIBLE CONNECTIONS: PROVIDE FLEXIBLE CONNECTIONS BETWEEN AIR MOVING EQUIPMENT	VIF VERIFY IN FIELD VRF VARIABLE REFRIGERANT FLOW	& MODEL NO. CFM RPM S.P. (IN.) HP,[WATTS] VOLTAGE (LBS.) [WAL	L OPENING]
AND DUCTWORK. 8. DUCT INSULATION: ALL CONCEALED DUCTS SHALL BE WRAPPED WITH FLEXIBLE GLASS FIBER	WAC WALL MOUNTED AC UNIT WSHP WATER SOURCE HEAT PUMP	1 COBL-240	CONTROL BY CO SYSTEM. SEE SEQUENCE OF OPERATION FOR SETPOINTS.
INSULATION EQUIVALENT TO R-4.2 IN SEMI-CONDITIONED SPACES AND R-8 IN NON-CONDITIONED SPACES. INSULATION NOT REQUIRED ON LINED DUCTS AND DUCTS EXPOSED TO CONDITIONED SPACE. INSTALL INSULATION ONLY AFTER DUCTWORK HAS BEEN INSPECTED AND	XAC, XHP EXISTING AC, EXISTING HEATPUMP ZD ZONE DAMPER		PARKING GARAGE ROOF MOUNTED UPBLAST FAN. FACTORY CURB. BACKDRAFT DAMPER. VFD. WEST CONTROL BY CO SYSTEM. SEE SEQUENCE OF OPERATION FOR SETPOINTS.
APPROVED. 9. DUCT OPENINGS: MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION OF ALL DUCT	(E) / (N) / (R) EXISTING / NEW / REPLACE	FE F GREENHECK	PARKING GARAGE ROOF MOUNTED UPBLAST FAN. FACTORY CURB. BACKDRAFT DAMPER. VFD. WEST CONTROL BY CO SYSTEM. SEE SEQUENCE OF OPERATION FOR SETPOINTS. PARKING GARAGE ROOF MOUNTED LIPBLAST FAN. FACTORY CURB. BACKDRAFT DAMPER. VFD.
PENETRATIONS OF STRUCTURE WITH GENERAL CONTRACTOR. 10. T—BAR CEILING SUPPLY DIFFUSERS: PRICE MODEL PDS (STEEL, PERFORATED, FRAME TYPE 3	⟨E⟩ FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR		PARKING GARAGE ROOF MOUNTED UPBLAST FAN. FACTORY CURB. BACKDRAFT DAMPER. VFD. WEST CONTROL BY CO SYSTEM. SEE SEQUENCE OF OPERATION FOR SETPOINTS. PARKING GARAGE ROOF MOUNTED UPBLAST FAN. FACTORY CURB. BACKDRAFT DAMPER. VFD.
FOR T—BAR) OR EQUAL WITH STANDARD B12 WHITE FINISH. 11. T—BAR CEILING RETURN REGISTERS (DUCTED): PRICE MODEL PDR (STEEL, PERFORATED, FRAME TYPE 3 FOR T—BAR) OR EQUAL WITH STANDARD B12 WHITE FINISH.	M FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR ME FURNISHED BY MECHANICAL AND INSTALLED BY ELECTRICAL CONTRACTOR	/FF / FF \	PARKING GARAGE ROOF MOUNTED UPBLAST FAN. FACTORY CURB. BACKDRAFT DAMPER. VFD. WEST CONTROL BY CO SYSTEM. SEE SEQUENCE OF OPERATION FOR SETPOINTS. PARKING GARAGE ROOF MOUNTED UPBLAST FAN. FACTORY CURB. BACKDRAFT DAMPER. VFD. EAST CONTROL BY CO SYSTEM. SEE SEQUENCE OF OPERATION FOR SETPOINTS.
12. DUCT DETECTORS: SYSTEM SENSOR D4120 4—WIRE PHOTOELECTRIC DUCT SMOKE DETECTOR OR SIMILAR. SMOKE DETECTION FOR THE DUCT SYSTEM WHERE REQUIRED BY THE MECHANICAL	P FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR CEILING DIFFUSER, RAR, AND EAR NOTATION LINEAR SUPPLY AIR REGISTER NOTATION	FE FE CREENHECK	EAST CONTROL BY CO SYSTEM. SEE SEQUENCE OF OPERATION FOR SETPOINTS. PARKING GARAGE ROOF MOUNTED UPBLAST FAN. FACTORY CURB. BACKDRAFT DAMPER. VFD. CONTROL BY CO SYSTEM. SEE SEQUENCE OF OPERATION FOR SETPOINTS.
CODE SHALL BE DESIGNED AND INSTALLED PER THE REQUIREMENTS SET FORTH IN NFPA 72 2013 EDITION.	NECK SIZE (IN DIA.) AIR QUANTITY (CFM) NO. OF SLOT(S) WIDTH (IN.) AIR QUANTITY PER FEET (CFM) TOTAL LENGTH (FT.)	TEN / CET ODESINGOU	EAST CONTROL BY CO SYSTEM. SEE SEQUENCE OF OPERATION FOR SETPOINTS. PARKING GARAGE ROOF MOUNTED UPBLAST FAN. FACTORY CURB. BACKDRAFT DAMPER. VFD. CONTROL BY CO SYSTEM. SEE SEQUENCE OF OPERATION FOR SETPOINTS.
H. EQUIPMENT SUBMITTALS EQUIPMENT SUBMITTALS FOR MECHANICAL EQUIPMENT SHALL BE SUBMITTED TO ARCHITECT AND	TOTAL LENGTH (FT.)	/FF	CONTROL BY CO SYSTEM. SEE SEQUENCE OF OPERATION FOR SETPOINTS. RESTROOMS, ROOF MOUNTED CENTRIFUGAL FAN. FACTORY CURB. BACKDRAFT DAMPER. INTERLOCK WITH 7-DAY PROGRAMMABLE TIME CLOCK.
ENGINEER FOR APPROVAL PRIOR TO ORDERING AND SHIPPING OF SUCH EQUIPMENT. I. TESTING	MECHANICAL LEGEND 3	/FF approximately	RESTROOMS, ROOF MOUNTED CENTRIFUGAL FAN. FACTORY CURB. BACKDRAFT DAMPER. INTERLOCK WITH 7—DAY PROGRAMMABLE TIME CLOCK.
 AFTER COMPLETION OF WORK, TEST AND BALANCE HVAC SYSTEM TO CONFORM TO THE AIR VOLUME INDICATED ON THE DRAWINGS. PROVIDE ALL TESTING APPARATUS NECESSARY TO PERFORM ALL TESTS. WHERE REQUIRED, PROVIDE LARGER OR SMALLER PULLEYS FOR 	PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH INDUSTRY BEST PRACTICES AND	FF CREENHECK	JANITOR CEILING MOUNTED FAN. BACKDRAFT DAMPER. SPEED CONTROLLER. INTERLOCK WITH LIGHT SWITCH CONTROL.
BELT—DRIVEN FANS AT NO ADDITIONAL COSTS TO OWNER. 2. THE CONTRACTOR SHALL PERFORM THE SPECIFIED TESTS AND BALANCE ALL QUANTITIES TO	APPLICABLE NATIONAL STANDARDS ON EACH SYSTEM. (CG 5.410.3) BEFORE A NEW SPACE—CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR	FF CREENHECK	MOTHER'S RM CEILING MOUNTED FAN. BACKDRAFT DAMPER. SPEED CONTROLLER. INTERLOCK WITH LIGHT SWITCH CONTROL.
WITHIN 5% OF THE INDICATED VALUES. IF SYSTEM CANNOT OBTAIN SPECIFIED AIRFLOW, DESIGN ENGINEER SHALL BE NOTIFIED.	NORMAL USE, THE SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING, ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL	/FF / FF \	PARKING GARAGE ROOF MOUNTED CENTRIFUGAL FAN. FACTORY CURB. BACKDRAFT DAMPER. INTERLOCK WITH 7—DAY PROGRAMMABLE TIME CLOCK.
J. OPERATING INSTRUCTIONS 1. PREPARE THREE MANUALS WHICH INCLUDE:	BALANCING BUREAU PROCEDURAL STANDARDS; OR ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS. (CG 5.410.4.3.1)		N.M. INTERESOR WITH 7 DAT I ROSKAWIWADEL TIME GEOGR.
 a. PART NUMBERS OF ALL REPLACEMENT PARTS. b. OILING AND LUBRICATION INSTRUCTIONS. c. AIR FLOW AND AIR BALANCE REPORTS. 	AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES. (CG 5.410.4.4)	GRAVITY V	ENTILATOR
 A MAINTENANCE SCHEDULE WHICH SHALL LIST ALL REQUIRED MAINTENANCE ON ALL EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS. 	PROVIDE THE BUILDING OWNER WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES AND WARRANTIES FOR EACH SYSTEM PRIOR TO FINAL INSPECTION. (CG 5.410.4.5)	UNIT NO. MANUFACTURER & AIR QUANTITY THROAT CURB OPER. WT. OPENING DIMENSION (LBS.)	REMARKS
K. GUARANTEE 1. THE CONTRACTOR SHALL GUARANTEE ALL WORK DONE HEREUNDER AGAINST FAILURE DUE TO	INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING	GV GV GREENHECK 44.000 0.05 54".C4" C0".70" 470 RC	OOF MOUNTED INTAKE GRAVITY VENTILATOR FOR PARKING GARAGE WEST. CTORY CURB. BIRDSCREEN.
DEFECTIVE MATERIALS AND/OR FAULTY WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE COMPLETED PROJECT BY THE OWNER. IF, DURING THIS PERIOD,	AGENCY WITH THE FINAL REPORT TO THE BUILDING OWNER. (CG 703.1) AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL	GV GV GREENHECK 45.500 0.05 CO". 90" CC". 90" 500 RC	OOF MOUNTED INTAKE GRAVITY VENTILATOR FOR PARKING GARAGE EAST. CTORY CURB. BIRDSCREEN.
ANY MATERIALS OR APPARATUS PROVE TO BE DEFECTIVE OR ANY PART OF THE SYSTEM FAIL TO FUNCTION PROPERLY, THE CONTRACTOR SHALL CORRECT THE DEFECTS WITHOUT EXPENSE TO THE OWNER. IF A CONTINUAL PROBLEM EXISTS, IT SHALL BE CORRECTED AND THE GUARANTEE	FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER		OOF MOUNTED INTAKE GRAVITY VENTILATOR FOR PARKING GARAGE RESTROOMS. CTORY CURB. BIRDSCREEN.
SHALL COMMENCE WHEN COMPLETE.	METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. (CG 5.504.3)	GV GV GV GREENHECK 500 0.05 16"ø 24½"x24½" 40 RC FA	OOF MOUNTED INTAKE GRAVITY VENTILATOR FOR PARKING GARAGE RESTROOMS. CTORY CURB. BIRDSCREEN.
NOTES & SPECIFICATIONS 5	ADHESIVES AND SEALANTS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS. (CG 5.504.4.1)		
	A. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY		G FANS
M-1.0: HVAC SCHEDULES, NOTES, AND SPECIFICATIONS	MANAGEMENT DISTRICT RULES WHERE APPLICABLE OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1 AND 5.504.4.2.	UNIT NO. MANUFACTURER DIAM. ELECTRICAL OPER. WT. OPER. WT. (LBS.)	SERVICE REMARKS
M-1.1: HVAC DETAILS	B. AEROSOL ADHESIVES AND SMALLER UNIT SIZES OF ADHESIVES AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN ONE	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	WAREHOUSE BACNET CONTROL. INTEGRATE W/ BLDG AUTOMATION SYSTEM. PROVIDE LOCAL CONTROL OVERRIDE SWITCH. MOUNT FAN AS HIGH AS POSSIBLE.
M-1.2: CO SYSTEM DETAILS	POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC	CF CF BIG ASS FANS PF8-12 12 135 1.5 3.5 10 460V. 3ø 200	WAREHOUSE BACNET CONTROL. INTEGRATE W/ BLDG AUTOMATION SYSTEM. PROVIDE LOCAL CONTROL OVERRIDE SWITCH. MOUNT FAN AS HIGH AS POSSIBLE.
M-1.3: CO SYSTEM DETAILS	COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507. FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS	ADDITIONAL REMARKS: 1. THE HVLS FAN SHALL BE CENTERED APPROXIMATELY BETWEEN FOUR ADJACENT SPRINKLERS. 2. THE VERTICAL CLEARANCE FROM THE HVLS FAN TO SPRINKLER DEFLECTOR SHALL BE A MIN OF	3 FT
	OF SECTION 121 OF THE CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6 AND CHAPTER 4 OF CCR, TITLE 8 OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT. (CG 5.506.1)	ADDITIONAL REMARKS: 1. THE HVLS FAN SHALL BE CENTERED APPROXIMATELY BETWEEN FOUR ADJACENT SPRINKLERS. 2. THE VERTICAL CLEARANCE FROM THE HVLS FAN TO SPRINKLER DEFLECTOR SHALL BE A MIN OF 3. ALL FAN PARTS MUST BE GREATER THAN 2 FT AWAY FROM ALL OBSTRUCTIONS. 4. FAN MOUNTED AT SAME LEVEL OR HIGHER THAN DIFFUSER MUST BE AT LEAST 24 FT AWAY FROM 5. ALL HVLS FANS SHALL BE INTERLOCKED TO SHUT DOWN IMMEDIATELY UPON RECEIVING A WATER 6. VERIFY EXTENSION TUBE LENGTH AND MOUNTING BRACKET W/ MANUFACTURER PRIOR TO ORDERING	M THE DIFFUSER. FLOW SIGNAL FROM THE ALARM SYSTEM IN ACCORDANCE W/ THE REQUIREMENTS OF NEPA72
M-2.1A: HVAC PLAN	IN MECHANICAL VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST A	6. VERIFY EXTENSION TUBE LENGTH AND MOUNTING BRACKET W/ MANUFACTURER PRIOR TO ORDERIN	NG.
M-2.1B: HVAC PLAN	MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF AT LEAST 8. (CG 5.404.5.3)		
M-2.2: HVAC PLAN	INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH THE FOLLOWING:	EQUIPMENT SO	CHEDULES
M-2.3: HVAC PLAN	A. INSTALL HVAC AND REFRIGERATION EQUIPMENT THAT DOES NOT CONTAIN CHLOROFLUOROCARBONS (CFCs).	TECTING AD ILICTING DAI ANGING	
	B. INSTALL HVAC AND REFRIGERATION EQUIPMENT THAT DOES NOT CONTAIN HALONS.	TESTING, ADJUSTING, BALANCING ALL HVAC SYSTEMS SHALL BE TESTED AND BALANCED ACCORDING TO NEBB OR AABC PROCEDURE STANDARD.	
M-3.1: ROOF PLAN	CAL GREEN SECTION 702.1 REQUIRES HVAC SYSTEM INSTALLERS TO BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR PROCESSION AND EXPERIENCE TO THE PROPERTY OF T	ALL DUCT OPENINGS AND OTHER AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE PROTECTED DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL START—UP WITH TAPE, PLASTIC, SHEET	
M-3.2: ROOF PLAN	REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS.	METAL, OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUST AND DEBRIS WHICH MAY COLLECT IN THE SYSTEM.	
M-3.3: ROOF PLAN	EXAMPLES OF ACCEPTABLE HVAC TRAINING AND CERTIFICAITON PROGRAMS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:	MECHANICAL CONTRACTOR OR AN INDEPENDENT NEBB OR AABC CERTIFIED AIR BALANCE CONTRACTOR SHALL ACCURATELY BALANCE THE AIR SYSTEMS TO PROVIDE AIR QUANTITIES INDICATED ON THE	
T24-1: TITLE 24 FORMS AND NOTES	A. STATE CERTIFIED APPRENTICESHIP PROGRAMS.	DRAWINGS AND IN THIS SPECIFICATION. OPERATE AUTOMATIC CONTROLS SYSTEM AND VERIFY SET POINTS DURING BALANCING, SUBMIT TWO (2) COPIES OF THE BALANCE REPORT AS APPROVED BY THE	
	B. PUBLIC UTILITY TRAINING PROGRAMS. C. TRAINING PROGRAMS SPONSORED BY TRADE, LABOR OR STATEWIDE ENERGY CONSULTING OR	ENGINEER WITH APPLICATION FOR FINAL CONTRACT PAYMENT. CONTRACTOR SHALL OPERATE ALL SYSTEMS UNTIL THE SATISFACTORY PERFORMANCE OF SPECIFICATION	
T24-2: TITLE 24 FORMS AND NOTES	VERIFICATION ORGANIZATIONS.	REQUIREMENTS IS DEMONSTRATED TO THE COMPLETE SATISFACTION OF THE OWNER. PRIOR TO, AND DURING OPERATION, ALL CONTROLS AND OTHER APPURTENANCES AND DEVICES SHALL BE ADJUSTED	
	D. PROGRAMS SPONSORED BY MANUFACTURING ORGANIZATIONS. E. OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY.	AND CALIBRATED. THE CONTRACTOR, DURING OPERATION AND BALANCE PERIODS, SHALL INSTRUCT THE OWNER IN THE	
	SPECIAL INSPECTORS MUST BE QUALIFIED AND ABLE TO DEMONSTRATE COMPETENCE IN THE DISCIPLINE	OPERATION AND CONTROL OF THE SYSTEMS AND MAINTENANCE SCHEDULE.	
	THEY ARE INSPECTING. (CG 702.2)		SSION SSION
			RPM (MAC)
			Engineers, Inc. 102 DISCOVERY No. 3046

| 4 |

TAB NOTES

SHEET INDEX

6

CALGREEN NOTES

HPA architecture

hpa, inc.
18831 bardeen avenue - ste.
#100 irvine, ca
92612
tel: 949 •863 •1770
fax: 949 • 863 • 0851
email: hpa@hparchs.com



Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

ril: THIENES
uctural: HSA
chanical: RPM
mbing: RPM

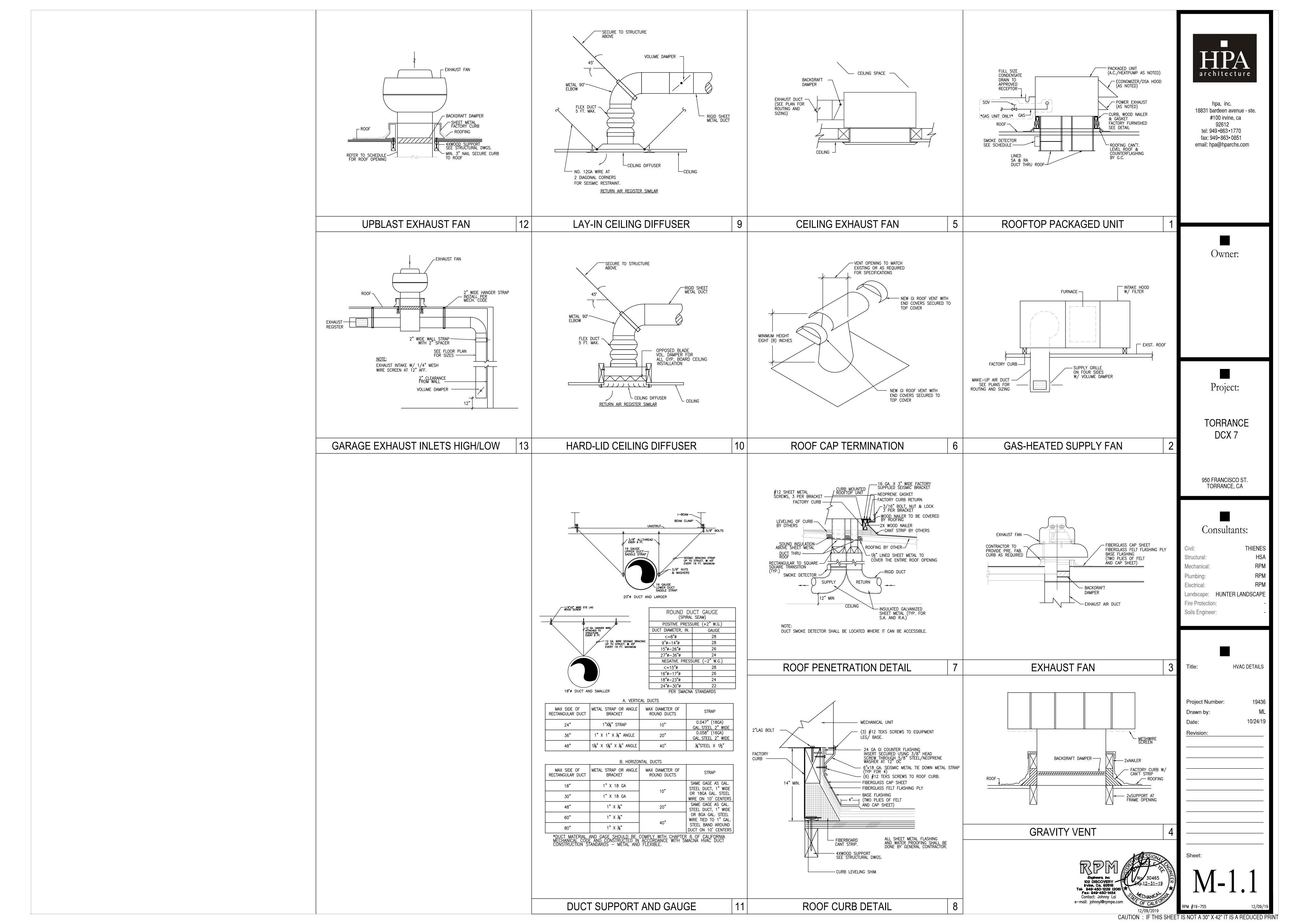
Landscape: HUNTER LANDSCAPE

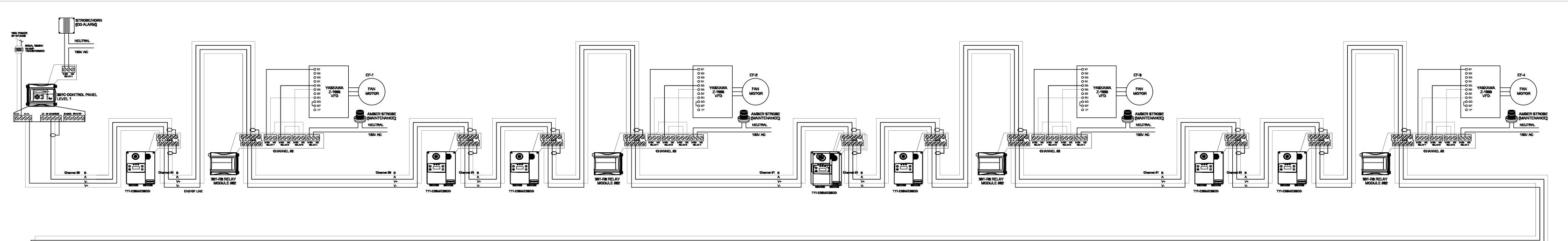
Fire Protection:
Soils Engineer: -

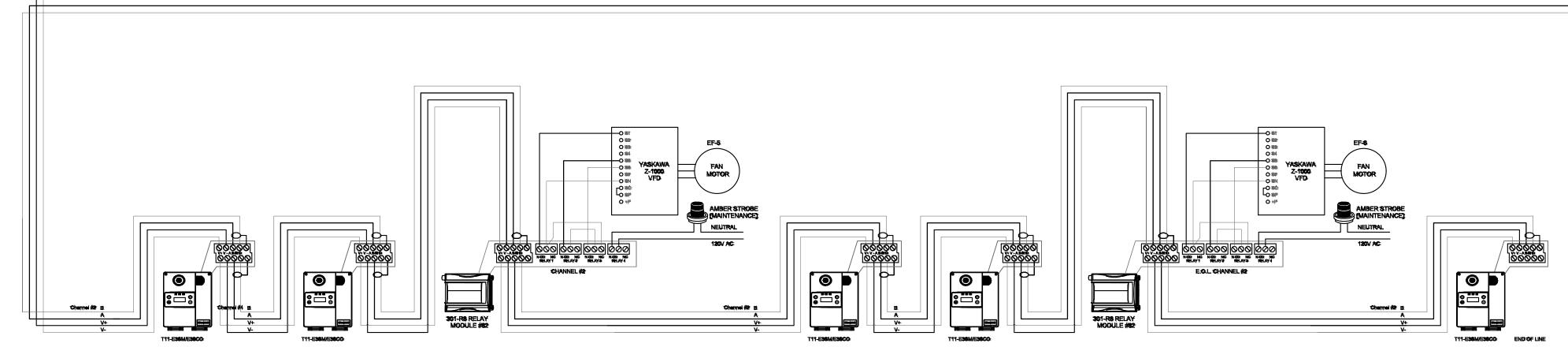
Title: HVAC SCHEDULES, NOTES, AND SPECIFICATIONS

Project Number: 19
Drawn by:
Date: 10/24
Revision:

Sheet:







PARKING LEVEL

LAYOUT, SEQUENCE OF OPERATION, AND COMPONENTS WITH MANUFACTURER'S REPRESENTATIVE. FOR QUESTIONS PLEASE CONTACT: DENNY QUAN (HALDEMAN): 562-237-3395 dquan@haldemaninc.com ALEX MUNOZ (HALDEMAN): 213-999-3160 amunoz@haldemaninc.com

T	YPICAL 301-R8 RELAY MODUL	Æ
relay 1:	LOW SPEED FAN	
relay 2:	MEDIUM SPEED FAN	
relay 3:	HIGH SPEED FAN	
relay 4:	SPARE	
relay 5:	SPARE	
relay 6:	SPARE	
relay 7:	SPARE	
relay 8:	SPARE	

Analytics

Tel.: 1-800-563-2967 Fax.:1-888-967-9938 www.vulcaininc.com



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Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

THIENES Structural: Mechanical: Plumbing: Electrical: Landscape: HUNTER LANDSCAPE

Soils Engineer:

Fire Protection:

Title: CO SYSTEM DETAILS

Project Number: Drawn by: 10/24/19 Date:

Revision:

JAVIER NUNEZ



Honeywell Analytics 405 Barclay Blvd. Lincolnshire, IL 60069 Attn: Charlene Numrych RESEARCH REPORT NO.: 500237 Date: October 29, 2018 Expires: October 29, 2019

GENERAL APPROVAL -Single and Multi-Station Carbon Monoxide Detection Systems - Manufactured by Honeywell Analytics. – E3Point Series, 301 C Series – 301C controller, E3SA, E3SAR, E3SB and E3SM monitors – Rated 24VAC, 60HZ, 1PH, 0.5 Ampere and Sensor Model E3SRMCO.

This approval is for fire, shock, and electrical hazards only and does not address those aspects of detection of gases the device is designed or calibrated to detect.

CONDITIONS OF APPROVAL

Each Carbon Monoxide Controller shall be plainly and permanently marked in letter heights not smaller than 1/8 inch on a contrasting background where readily visible with the following:

The installation and use of the carbon monoxide detection system is approved when the following provisions are

A. Manufacturer's name,

B. Model designation,

Honeywell Analytics Carbon Monoxide Detection System

where readily visible with the following:

"Carbon Monoxide Sensor"

A. Manufacturer's name,

B. Model designation,

Electric rating,

California Title-24 Part 6.

City Electrical Testing Laboratory.

installation site.

Manufactured date,

C. Serial Number,

D. Electrical rating, in Volts, Amperes and Frequency,

E. "NOT SUITABLE FOR HAZARDOUS LOCATIONS", F. "For Carbon Monoxide Detection Only.",

G. "For use with Honeywell Analytics Carbon Monoxide Sensors ONLY",

I. "The installation of this CO Detection System shall be based on the conditions of approval listed in Research Report (RR) #500237. Not valid if RR is not current. For a copy of the RR visit www.LADBS.org or call 213-482-6721."

AN EQUAL EMPLOYMENT OPPORTUNITY - AFFIRMATIVE ACTION EMPLOYER LADBS G-5 (Rev.11/23/2016)

"For use with Honeywell Analytics, Controllers ONLY."

Los Angeles City Codes (Building, Electrical, Mechanical and Fire).

by an approved recognized (NRTL) testing agency.

date, in accordance with the manufacturer's instructions.

11. The audible device shall have a different tone from life safety devices.

G. "This CO Sensor must be replaced within 6 years of the manufactured date."

the Mechanical Plan Check and the Electrical Plan Check prior to each installation.

requirements of California Title-24 Part 6 and OSHA-recommended limits.

otherwise approved by the Los Angeles City Electrical Testing Laboratory.

3. The final installation of this Carbon Monoxide detection system, including secondary wiring from

controller to sensors shall comply with requirements of "Class 1" in approved raceways or conduits.

accordance with the manufacturer's instructions and shall comply with the applicable provisions of the

Plans for the installation of the carbon monoxide detection system shall be submitted to and approved by

The performance and sensitivity of this carbon monoxide detection system must be evaluated, and tested

An electrical permit shall be obtained prior to installation or relocation of this equipment in the City of

The installation and performance of this Carbon Monoxide detection system shall comply with the applicable provisions of the Los Angeles City Codes (Building, Electrical, Mechanical and Fire) and

The maximum allowable concentration level of the Carbon Monoxide shall be in compliance with the

12. The Carbon Monoxide detection system shall be serviced by qualified personnel at least once a year and it

A part, when replaced, shall be of the identical original approved manufactured part and rating, unless

make them available to the Department of Building and Safety for inspection when requested.

14. This approval shall be void if the product is modified without prior authorization from the Los Angeles

15. A copy of this conditional approval letter and the electrical permit shall be made available at each

This Carbon Monoxide sensor shall be replaced by qualified personnel within 6 years of the manufactured

shall always be in optimum operating condition. The building owner shall maintain all service records and

This CO detection system shall be installed, calibrated, and maintained by qualified personnel in

2. Each Carbon Monoxide <u>Sensor</u> shall be plainly and permanently marked on a contrasting background

Honeywell

301R PRODUCT SUBMITTAL ORDERING INFORMATION

301R Relay Module VA301R-8 8 DPDT relays

301C-24 SPECIFICATIONS

and low cost installation

2.4 lbs. (1.1 kg)

17-27 VAC, 24-38 VDC, 500mA

Up to 2,000 ft. (609 m) per channel

5 A, 30 VDC or 250 VAC (resistive load)

Four fully programmable alarm levels

and time since calibration

Large 122 x 32 dot matrix display

Password protection for tamper resistance

2GB removable SD Card for configuration, readings, and events

California Title 24, Part 6, and associated administrative regulations In Part 1

0 to 95% RH (non-condensing)

-4° to 122°F (-20° to 50°C)

Up to 126 programmable zones

2008 (Reaffirmed 2009))

Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract.

IEC 61010-1:2010 (Third Edition)

T-Tap: 65 ft. (20 m), maximum per T-Tap 130 ft. (40 m), maximum for all T-Tap combined

11 (W) x 8 (H) x 2.8 (D) in. (28 x 20.3 x 7 cm)

Three RS-485 channels for up to 96 transmitter inputs

0, 30 sec, 45 sec, 1-99 minutes before and after alarm

4 DPDT relays (alarms and/or fault); 65dBA buzzer

Optional BACnet/IP interface, BTL listed as a smart sensor

Controller for centralized gas detection monitoring with real-time gas reading, selective alarm activation

Flexible programming that can include: alarms, gas concentrations, faults, real time clock, voting, optional outlier detection,

For USA: Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General

Requirements (ANSI/UL 61010-1, 2nd Edition, Dated July 12, 2004 Including Revisions Through October 28, 2008)

For Canada: Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General

Requirements (CAN/CSA C22.2 No. 61010-1:04, 2nd Edition, Dated July 12, 2004 Including General Instruction 1 – October

Controller

General Specification

Network Capacity

Alarm Levels

Time Delays

Outputs

Digital Communication

Operating Humidity Range

Operating Temperature

Optional Memory

Certified by

Ratings and Certificatio

Designed to comply with

www.honeywellanalytics.com

Toll free: 1 800 563 2967

SS01005_v3 7/15 © 2015 Honeywell Analytics

Page 2 of 3 App # 500237

Page 2 of 3 App # 500237

301R - SPECIFICATIONS

Temperature range: Humidity range: Standard outputs: Relay Specifications: Visual indicators: Communication: Length of lines: Wireless range Dimensions (HxWxD) Enclosure Certifications

Power requirements

17 - 24 Vac, 24 - 38 Vdc, 250 mA 0° to 40°C (32° to 104°F) 0 to 95% RH non-condensing 8 DPDT relavs 5A, 30Vdc or 250 Vac (resistive load) Power: Green LED Modbus RTU or ISM wireless Up to 609 m (2,000 ft) per channel 30 m (98.5 ft) 20.39 x 27.94 x 6.79 cm (8.03" in x 11" x 2.67") 0.350 Kg (0.77 lbs) NEMA 4X ABS - polycarbonate UL 1244 Fourth Edition CSA C22.2 No. 205-M1983 (R1999)

Duct Mounting

Special Duct Mount Installation

Honeywell

1. Select the location for the unit. 2. Measure and mark the holes for intake and exhaust tubes 3. Drill the holes for the sampling tubes (making sure holes are large enough for plug). 4. Affix intake and exhaust tubes to the mounting box.

5. Insert the tubes into the holes on the ducting. Screw the mounting box onto the duct. 7. Remove the desired knock out (depending on where cables will enter box) and affix appropriate conduit. 8. Run wiring through the conduit and duct mount box to the unit. Connect wires according to the Wiring Details. 9. Screw cover onto the E3Point and replace the cover on the mounting box.

This option works best for airflows between 500–4000 ft/min. The E3Point must be duct mounted using the custom box

provided with the duct mount version. All of the components housed within the box are factory assembled.

Ensure to orient the air holes on the air intake tube to face the airflow.

Electrical wiring must comply with all applicable codes. Operating conditions and site equipment that may be involved should be discussed with local operating personnel to determine if any special needs should be considered. Ground the shield at the main control panel. Connect the shield wire in the sensor terminal block labeled shield. Tape

Electrical Power: 24 VDC/VAC nominal, 0.35 amp maximum. Either AC or DC may be connected to the terminal

Output: Circuit board mounted sensor provides a linear 4-20 mA output. Monitoring equipment may have a maximum

Wire: Signal wiring should be done with #20-24 AWG shielded twisted pair cable Belden 9841 or similar. Network units should have no more than 2,000 ft (600 m) of #22 AWG wire. Smaller gauge sizes are limited by the same resistance

all exposed shield wire at the sensor to insulate it from the enclosure.

impedance of 500 ohms.

#12 AWG.

Circuit Board Connections

Connect the power wiring to terminal J1

Main Circuit Board Connections

Figure 3. Main Circuit Board Connections

Connect Communication wiring to terminal J2

• Connect external device (ventilator, strobe, etc.) to relay terminal J5

limit. Power wiring should be sized by local codes, but never less than #20 AWG. 120 VAC wiring should be #14 or

SPECIFICATIONS

Wiring Diagram

sulfide (H₂S), oxygen (O₂), methane (CH₄), hydrogen (H₂) and propane (C₃H₈. 20.56 x 14.90 x 6.72cm (8.09 x 5.87 x 2.65") (H x W x D)

Wall or duct-mounted, BAS or controller networkable gas detector for monitoring carbon monoxide (CO), nitrogen dioxide (NO₂), hydrogen

24 Vac nominal (17-27Vac), 50/60 Hz, 0.35A; 24 Vdc nominal (20-38Vdc) Relay Output 1 DPDT relay, 5A @ 250Vac; 5A @ 30Vdc

E³Point PRODUCT SUBMITTAL

Toxic and Combustible Gas Detector

Network Platform (BACnet MS-TP, Modbus)

Order Number Description

E³Point, Surface-mount, Modbus/BACnet Selectable, 24Vac/dc, -40 to 50°C (-40 to 122°F)

E³Point, Duct-mount, Modbus/BACnet Selectable, 24Vac/dc, -40 to 50°C (-40 to 122°F)

CO Cartridge -20 to 50°C (-4 to 122°F), Carbon Monoxide

NO₂ Cartridge -40 to 50°C (-40 to 122°F), Nitrogen Dioxide

H₂S Cartridge -40 to 50°C (-40 to 122°F), Hydrogen Sulfide

H₂ Cartridge -40 to 50°C (-40 to 122°F), Hydrogen

O₂ Cartridge -40 to 50°C (-40 to 122°F), Oxygen

CH₄ Cartridge -40 to 50°C (-40 to 122°F), Methane

C₃H₈ Cartridge -40 to 50°C (-40 to 122°F), Propane

To order a network version, surface-mount, Modbus/BACnet Selectable, H₂S detector, -40 to 50°C (-40 to 122°F): Order E3SM (1309A0047) +

To order a network version, duct-mount, Modbus/BACnet Selectable, NO₂ detector, -40 to 50°C (-40 to 122°F): Order E3DM (1309A0051) +

Base unit only; sensor cartridge sold separately

Model Number Order Number Description

Model Number Order Number Description

ORDERING INFORMATION

Single-Gas, Surface-Mount

Part Number

Sensor Cartridges

EXAMPLES OF HOW TO ORDER

E3NO2 (1309A0037)

General Specifications

☐ E3DM

RS485 Modbus; BACnet MS-TP master **Operating Environment** Commercial, Indoor, Extreme Temperature Environments Operating Temperature H₂S, NO₂, O₂, C H₄, H₂, C₃H₈: -40 to 50°C (-40 to 122°F) CO: -20 to 50°C (-4 to 122°F); future available CO version: -40 to 50°C (-40 to 122°F)

Display 8 character, 2 line backlit LCD Visual Indicators Green LED: Power Amber LED 1: Alarm/Fault Amber LED 2: Alarm/Fault >85 dBA at 3 m (10 ft) Audible Alarm +/- 3% of full scale @ 25C Accuracy

Gases Detected, Detections	Resolution	Range	Alarm A	Alarm B	Alarm C
Gas	Resolution	Kange	Alailii A	Alamii B	Alailli C
CO (Carbon monoxide)	1 ppm	0-250 ppm	25 ppm	200 ppm	225 ppm
H ₂S (Hydrogen sulfide)	0.1 ppm	0-50 ppm	10 ppm	15 ppm	20 ppm
NO ₂ (Nitrogen dioxide)	0.1 ppm	0-10 ppm	0.7 ppm	2 ppm	9 ppm
O ₂ (Oxygen)	0.1% vol.	0-25% vol.	19.5% vol.	22% vol.	22.5% vol.
H₂ (Hydrogen)	0.5% LEL	0-100% LEL	25% LEL	50% LEL	90% LEL
CH ₄ (Methane)	0.5% LEL	0-100% LEL	25% LEL	50% LEL	90% LEL
C ₃ H ₈ (Propane)	0.5% LEL	0-100% LEL	25% LEL	50% LEL	90% LEL

Certification © 2016 Honeywell Analytic CSA C22.2 No. 61010-1, c U us UL 61010-1; FCC part 15; ICES-003 issue 4

Honeywell Analytics Carbon Monoxide Detection System

DISCUSSION

The product covered in this Research Report is a Carbon Monoxide (CO) Detection System for use in non-

level of carbon monoxide in the surrounding air. When the (CO) level exceeds allowable values, set by California Title-24 Part 6 and OSHA, the CO detection system, activates the building's ventilation system. If the concentration of (CO) rises above the recommended upper limits set by California Title-24 Part 6 and OSHA, an audible and visual alarm will be activated.

hazardous locations such as commercial buildings and parking garages. This equipment monitors the concentration

An on-board microcomputer supervises and verifies the operation of the system and displays the status to the indicator lights. If a malfunction occurs, the ventilation system is activated and a fault warning signal is activated. When the system is installed in accordance with the provisions of this General Approval, it should meet the minimum safety standards of the Los Angeles City Electrical Code.

required to provide equivalency have been met. This General Approval is in accordance with Section 93.0303 of the Electrical Code pertaining to "New Materials and Methods of Construction", and does not waive the requirements of the City of Los Angeles Building Code.

For this General Approval to be valid on any installation in the City of Los Angeles, an engineer or inspector of

The General Approval is neither a product endorsement nor a certification of function of accuracy of the approved

the Department of Building and Safety may make a determination that all conditions of the General Approval

PICTURES:

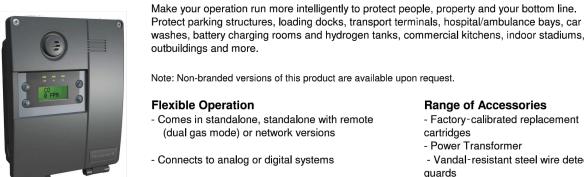


APPROVED BY:

Electrical Engineer Associate II Electrical Testing Laboratory 201 N. Figueroa St., Suite 500 Los Angeles, CA 90012 (213) 202-9987 Tel (213) 482-6554 Fax www.LADBS.org

Toxic & Combustible Gas Monitor

CO, NO2, H2S, H2, O2, CH4, C3H8



Protect parking structures, loading docks, transport terminals, hospital/ambulance bays, car washes, battery charging rooms and hydrogen tanks, commercial kitchens, indoor stadiums, outbuildings and more. Note: Non-branded versions of this product are available upon request.

Flexible Operation Range of Accessories - Comes in standalone, standalone with remote Factory-calibrated replacement (dual gas mode) or network versions Power Transformer

- Works with virtually any BAS including BACnet - Wall or duct mount Factory-calibrated cartridges



Cost Effective - Saves energy through Demand Control Ventilation Simplifies installation/ maintenance through plug-n-play sensor - Remote sensor option provides dual gas monitoring - Optimizes BAS, fire, ventilation & other security

Versatile Communications collect data on gas concentration levels, sensor condition, etc. Couple with 301C to log data and daisy-chain up to CoLA (City of Los Angeles) aproved 96 E³Point units

Remote Sensor Advanced Sensing Technology - Detects CO, NO2, O2, H2, H2S, CH4, C3H8 - Advanced electrochemical (for toxic gases) or catalytic bead (for combustible gases)

Click here to access **BACnetListing** - Patented Reflex® and smart cartridge technologies

for CO detection in commercial buildings and parking garages

C22 2#61010-1-12:2012 Ed.3+U1; U2

- Vandal-resistant steel wire detector

- Loading Dock Transport Terminal

- Tamper-proof screws

Horns and strobes

Applications

- Parking Structure

- Golf Cart Maintenance

Hospital/Ambulance Bay

- Battery Charging Rooms

- Intertek: UL 61010-1:2012

Ed.3+R29 Apr2016 and CSA

- H2 & Hydrogen Tanks Commercial Kitchen

- Maintenance Garage

Fire/Police Station

 Car Wash - Boiler Rooms

Wall Mounting

Mounting is usually done on concrete walls or columns, but the unit can be mounted on any vertical surface. The housing is designed with spacers on the back to allow moisture to flow behind the housing without affecting the unit.

 Mounting holes are located inside the housing. Open the unit to access mounting holes. Drill and mark the holes, as shown: - Width 11.1 cm (4 3/8") apart (if mounting directly to wall)

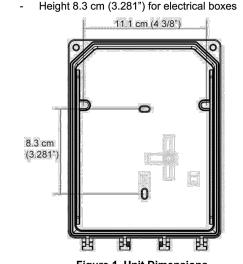


Figure 1. Unit Dimensions • Pre-drill mounting holes from the back of the unit as needed. • Securely mount the unit using the appropriate screws and anchors. The unit is designed to use #6 screws.

• Close the unit cover and tighten screws to 29.7 in-lb (3 Nm). Do not remove PC board when removing knockouts.

Knockout on back is not for conduit entry.

Tighten to 8.7 in-lb (1 Nm) maximum.

General Mounting Considerations:

 Must be easily accessible for calibration and maintenance. Mount the sensor close to the potential leak source for fastest possible leak detection.

• If personnel protection is the primary application, mount in the "breathing zone" (1–1.5m from the ground, within the range of a person's respiration area). Protect the sensor from water, excessive humidity, and washdown.

 Take air movement and ventilation patterns into account. To prevent electrical interference, keep sensor and wire runs away from mercury vapor lights, variable speed

drives, and radio repeaters. Protect the sensor from physical damage (fork lifts, etc.).

 Do not mount the sensor over a door in a refrigerated area. • For highly critical locations, more than one sensor should be installed in each room.

 Never mount the sensor flat on a ceiling. Never mount the sensor on a vibrating surface.

e-mail: johnnyl@rpmpe.com



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TORRANCE

950 FRANCISCO ST. TORRANCE, CA



THIENES Mechanical:

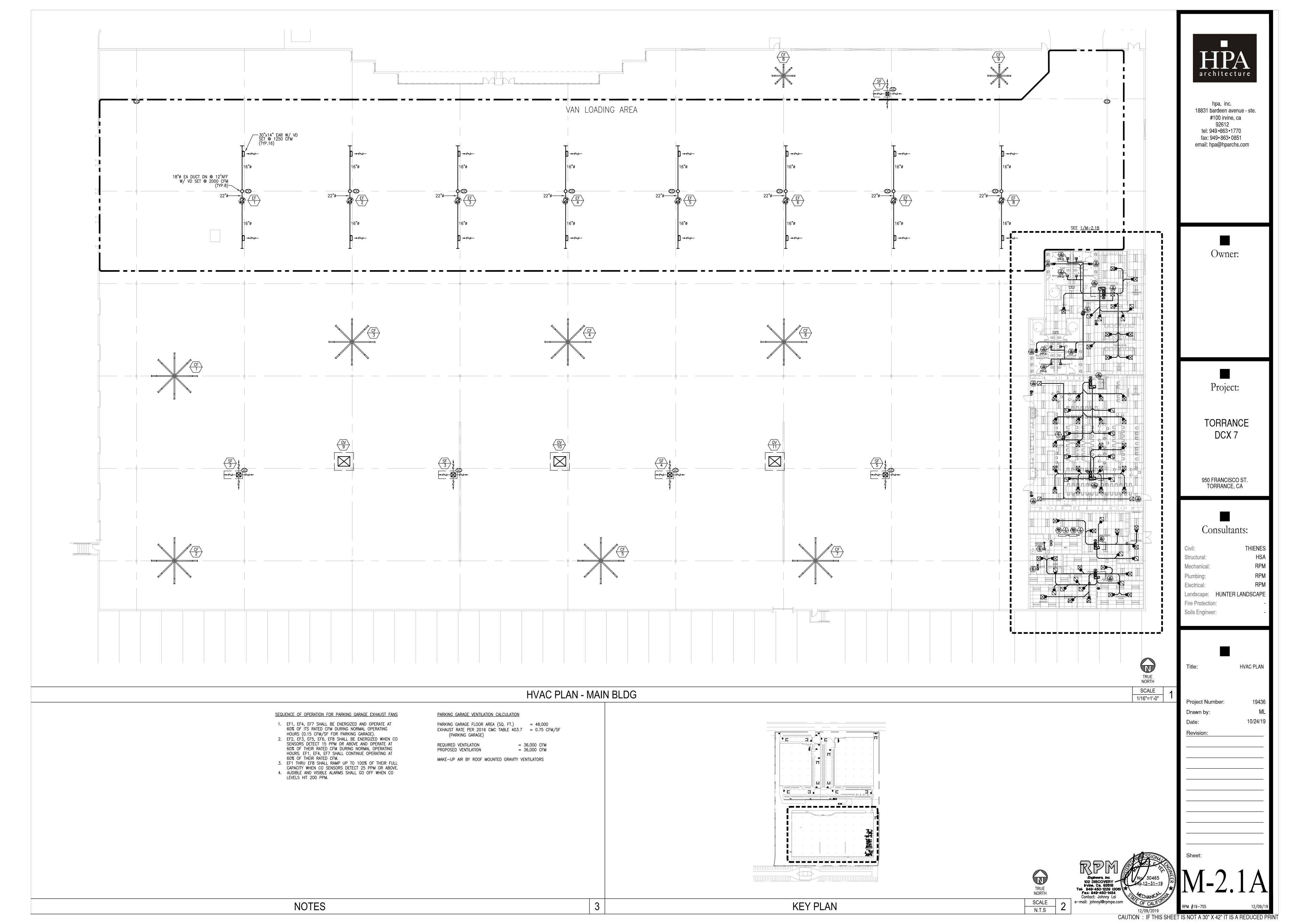
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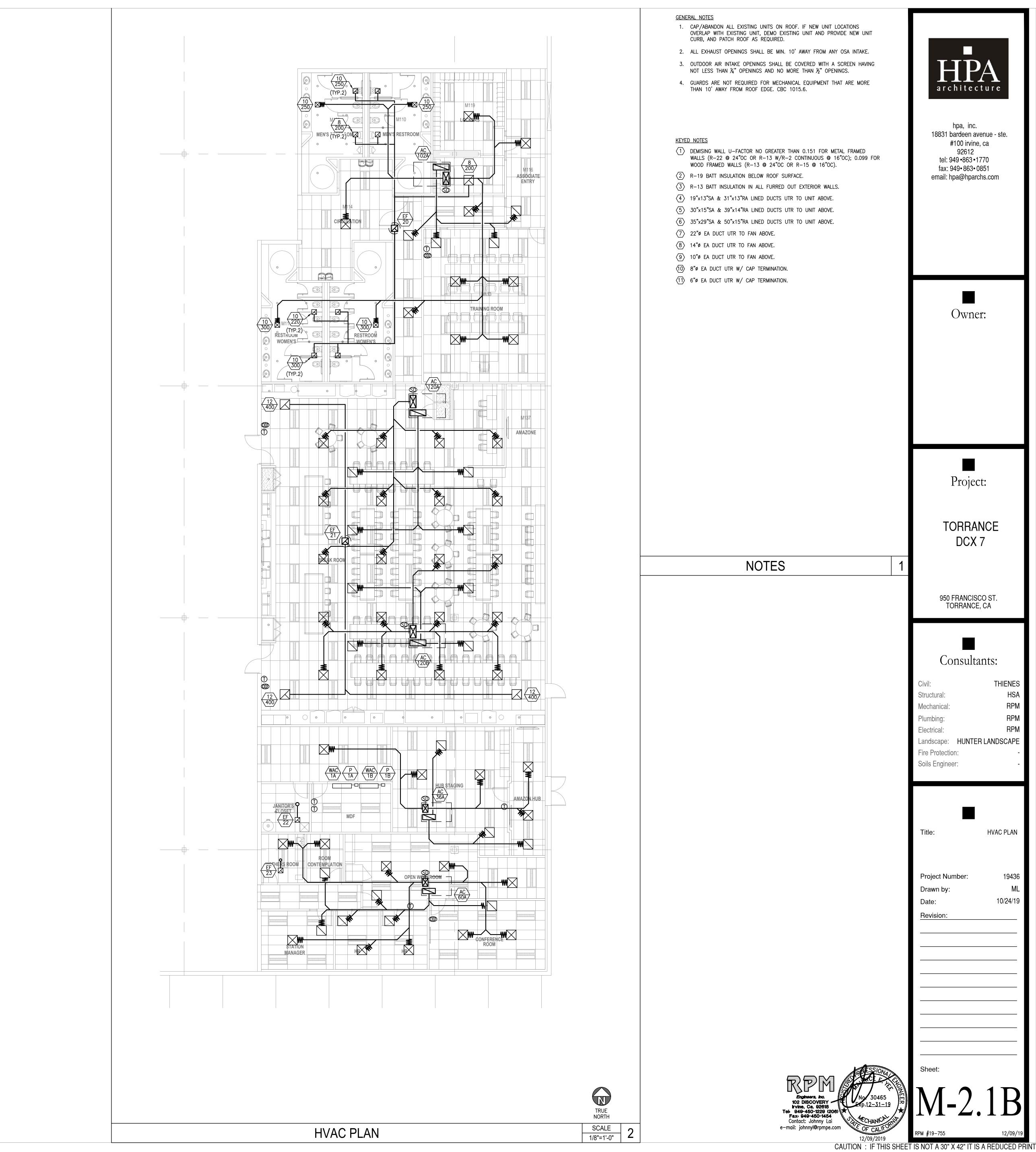
Soils Engineer:

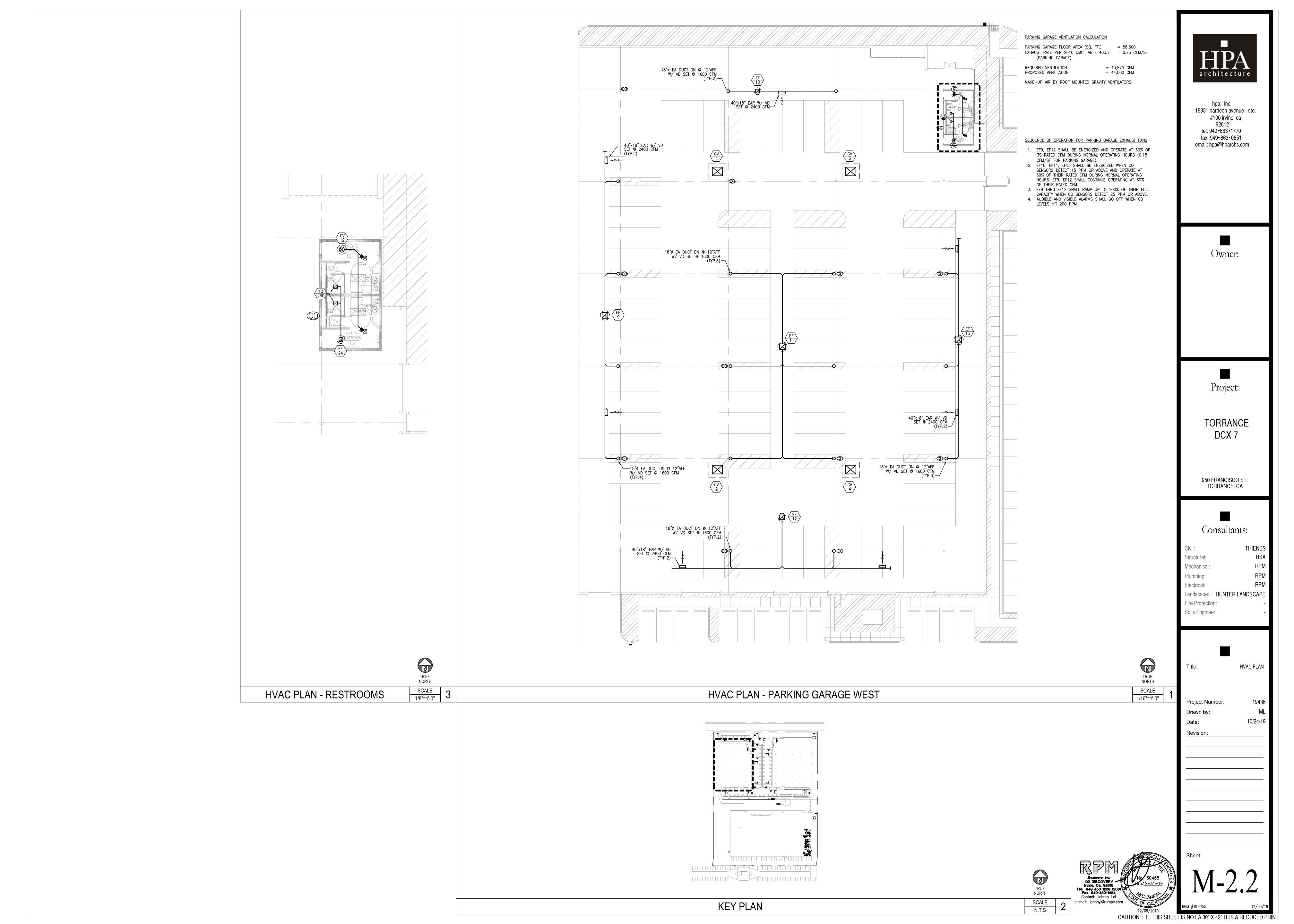
CO SYSTEM DETAILS Title:

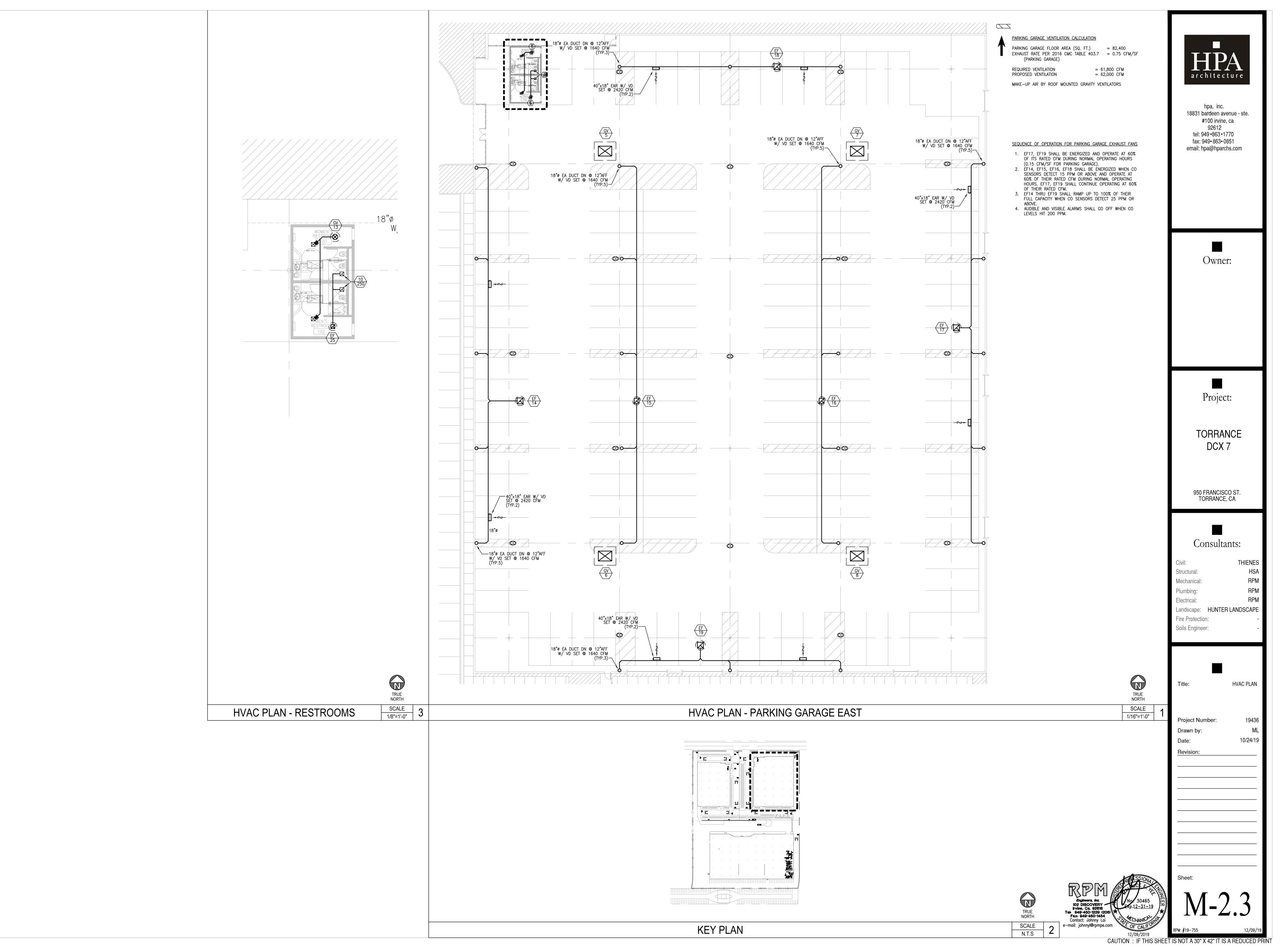
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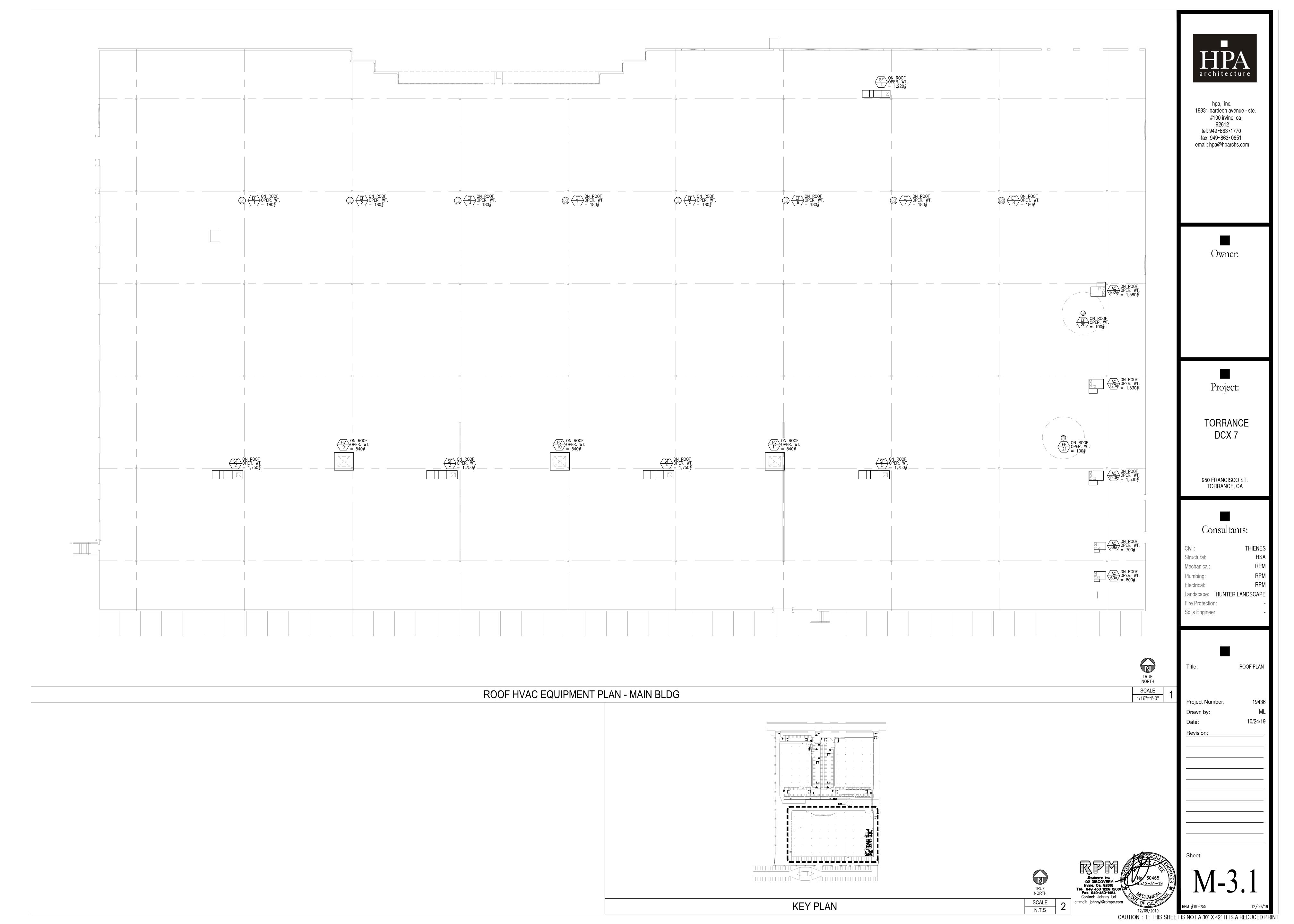
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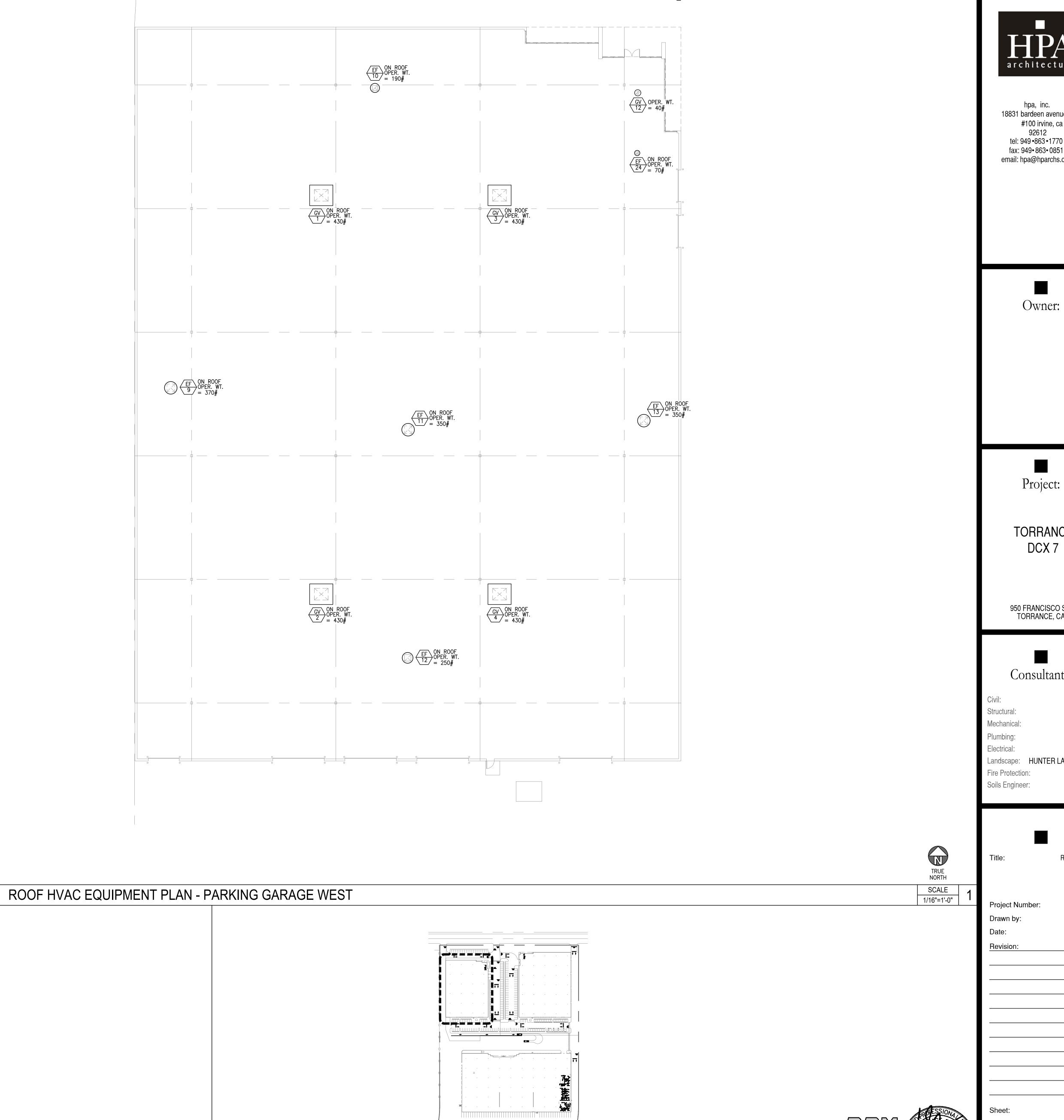














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Project:

TORRANCE DCX 7

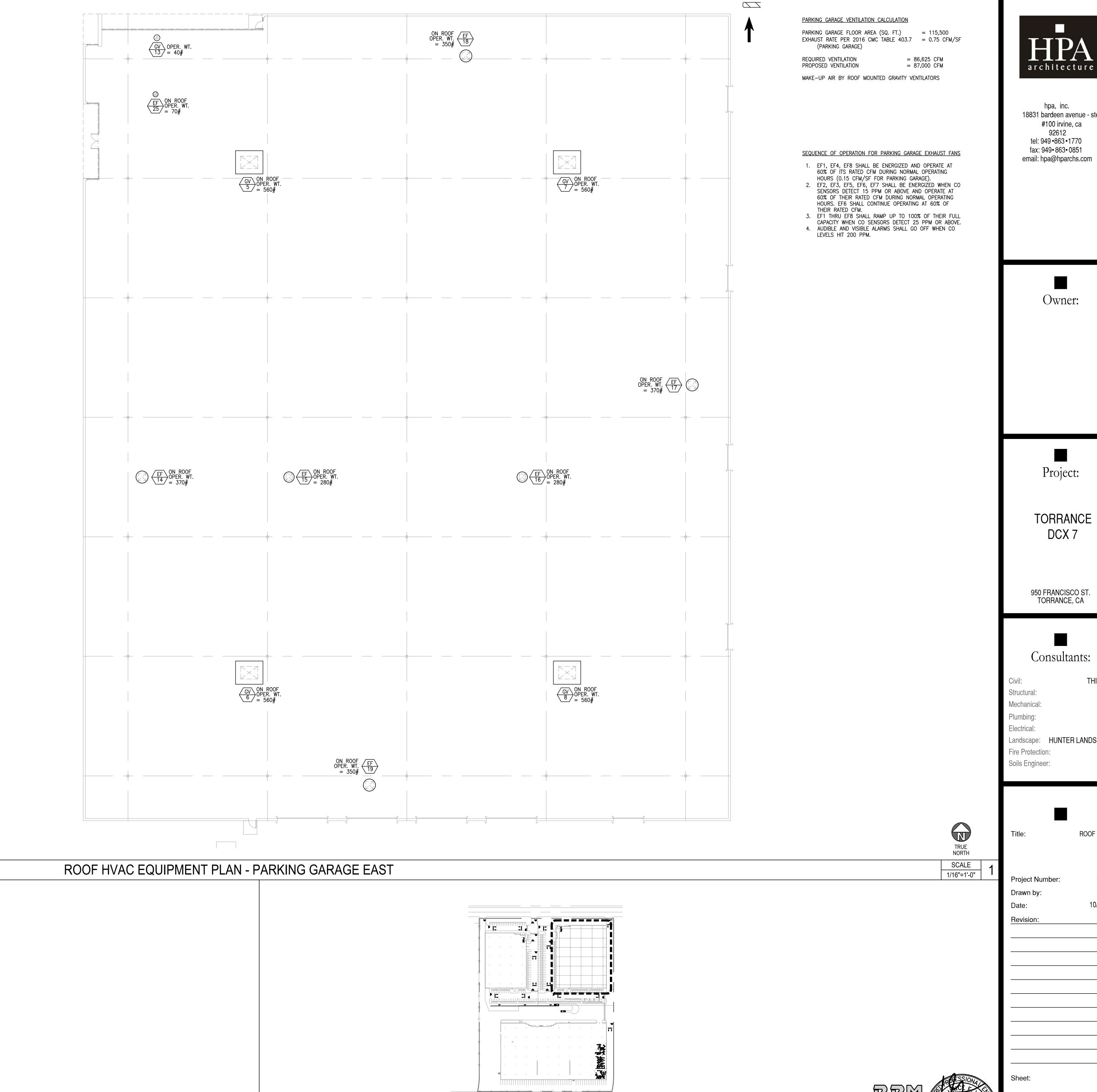
950 FRANCISCO ST. TORRANCE, CA

Consultants:

ROOF PLAN

KEY PLAN

TRUE NORTH SCALE 2



architecture

hpa, inc. 18831 bardeen avenue - ste. #100 irvine, ca tel: 949 •863 •1770 fax: 949 • 863 • 0851 email: hpa@hparchs.com

Owner:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

THIENES

ROOF PLAN

10/24/19

KEY PLAN

TRUE NORTH SCALE 2

ADMINISTRATIVE REQUIREMENTS A. The person with overall responsibility for construction or the person responsible for the installation of regulated features, materials, components, or manufactured devices shall make post, or make available with the building permit(s) issued for the building, the required Installation Certificate(s) for features, materials, components, or manufactured devices regulated by the Appliance Efficiency Regulations or Part 6. Such installation Certificate(s) shall be made available to the enforcement agency for all appropriate inspections. These certificates shall: 1) Identify features, materials, components, or manufactured devices required to verify compliance with the Appliance Efficiency Regulations and Part 6. 2) Include a statement indicating that the features, materials, components, or manufactured devices conform to the Appliance Efficiency Regulations and Part 6 and the requirements for such features, materials, components, or manufactured devices given in the plans and specifications approved by the local enforcement agency. 3) State the number of the building permit under which the construction or installation was Sec. 10-103 (a) 3A B. Within 90 days after issuance of certificate of occupancy, record drawings shall be provided to the owner. If any characteristic is materially changed before final construction and installation such that the building may no longer comply with Part 6, the building must be brought into compliance and so indicated on amended plans and Certificate of Compliance that shall be submitted for plan approval. Sec. 10-103 (a) 2B C. The builder shall provide the building owner or the person(s) responsible for building maintenance (in case of multi-tenant or centrally operated buildings) at occupancy the following: 1) Operating information: The appropriate certificate(s) of compliance and a list of the features, materials, components, and mechanical devices installed in the building and instruction on how to operate them efficiently. 2) Maintenance information: Required routine maintenance actions shall be clearly stated and incorporated on a readily accessible label. The label may be limited to identifying the operation and maintenance manual. 3) Ventilation information: A description of the quantities of outdoor and recirculated air that the ventilation system are designed to provide to each area. Sec. 10-103 (b) 2, 3 & 4 D. Testing and adjusting of new systems is required for all additions 1000 square feet or greater, and/or building alterations with valuation \$200,000 or above, or new buildings less than 10,000 square feet. Provide the following note on the plans: "Prior to permit being finalized, a complete report of the testing and adjusting shall be

provided to the owner or owner's representative."

A. Manufactured fenestration products and exterior doors shall:

116 (a) 1 are met for each product line; and

EXCEPTION: Unframed glass doors and fire doors.

rated using NFRC procedures.

infiltration and exfiltration.

density requirements of the CBG.

conditions set in Sec. 110.8 (i).

heat pump alone; and

immediately before the building is normally occupied.

cannot adjust the setpoint more than ± 5 °F (± 3 °C).

level of R-8, unless ducts are in conditioned space.

a) Comfort heating down to 55 °F or lower.

b) Comfort cooling up to 85 °F or higher.

Section (b).

close upon fan shutdown.

b) An occupancy sensor; or

programmable timers.

required by Section 120.1 (c) 3 and 120.1 (4).

Appliance Efficiency Regulations as required by Sec. 110.1.

be capable of automatically turning off the system.

accordance with TABLE 120.3-A.

c) A four-hour timer that can be manually operated.

Zone" areas.

excluding covered processes.

MANDATORY MEASURES:

E. All new building systems and components covered by Sections 110.0, 120.0, 130.0, and

140.0 shall be included in the scope of the commissioning requirements in Section 120.8

1) Have a temporary label meeting the requirements of Sec. 10-111 (a) 1, not to be removed before inspection by the enforcement agency, listing the certified U-factor, SHGC, and Visible Transmittance (VT) certifying that the air leakage requirements of Sec.

B. Field fabricated fenestration and field-fabricated exterior doors shall be caulked between the fenestration products or exterior door and the building, and shall be weather stripped.

C. Joints, penetrations, and other openings in the building envelope that are potential sources of air leakage shall be caulked, gasketed, weather stripped, or otherwise sealed to limit

D. The opaque portions of walls that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable requirements of Items 1 through 7 in Sec. 120.7 (b)

E. No mechanical equipment nor plumbing vents shall be located within the designated "Solar

F. All insulating material shall be installed in compliance with the flamespread rating and smoke

G. Any roofing product used as a cool roof shall be certified and labeled in accordance with the requirements of Sec. 10-113 by the Cool Roof Rating Council (CRRC) and meet

1) That prevent supplementary heater operation when the heating load can be met by the

2) In which the cut—on temperature for compression heating is higher than the cut—on temperature for supplementary heating, and the cut—off temperature for compression

complete air changes shall be supplied to the entire building during the one-hour period

dampers, and controls to allow outside air rates to be operated at the larger of (1) the

exhaust systems that are required for an exempt or covered process for control of odors, or

for the removal of contaminants within the space. All variable air volume space-conditioning

systems shall include controls that maintain measured outside air ventilation rates within 10

percent of the required outside air ventilation rate at both full and reduced supply airflow

and setpoint stops accessible only to authorized personnel such that guest room occupants

mechanical closets, air—handler boxes and support platforms used as ducts or plenums, shall

Mechanical Code and SMACNA -006-2006 HVAC Duct Construction Standards. Supply air and

return air ducts conveying heated or cooled air shall be insulated to a minimum installed

1) Each space conditioning zone shall be controlled by an individual thermostatic control

2) Each thermostatic control required by Section (a) shall be capable of being set locally

that responds to temperature within the zone and meets the applicable requirements of

c) Both heating and cooling, the thermostatic controls shall be capable of providing a

and cooling energy to the zone is shut off or reduced to a minimum.

O. Outdoor air supply and exhaust equipment shall be installed with dampers that automatically

P. Demand Control Ventilation devices (CO₂ sensors) shall be installed in accordance with Sec.

Q. Each space conditioning system shall be installed with controls that comply with the following:

1) Capable of automatically shutting off the system during periods of non—use and shall

a) An automatic time switch control device complying with Sec. 110.9, with an

EXCEPTION: Mechanical systems serving retail stores and associated malls,

restaurants, grocery stores, churches, and theaters equipped with 7-day

a) A setback heating thermostat setpoint, if the system provides mechanical heating;

b) A setup cooling thermostat setpoint, if the system provides mechanical cooling.

3) Maintenance room less than 1000 ft², classrooms greater than 750 ft² and conference,

setback the operating heating temperature set point by 2 °F or more; and

b) Automatically reset the minimum required ventilation rate with an occupant sensor

with occupant sensor(s) to accomplish the following during unoccupied periods:

EXCEPTION TO SECTIONS 120.2 (e) 3: If Demand Control Ventilation is implemented as

R. The piping for all space conditioning and service water heating systems shall be insulated in

T. Service water heating systems and equipment shall meet the applicable requirements of the

U. Service hot water systems with circulating pumps or with electrical heat trace systems shall

V. Lavatories in public restrooms shall have controls that limit the water supply temperature to

S. Water heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use as listed in Table 2, Chapter 49 of the ASHRAE Handbook, HVAC Applications Volume.

ventilation control device according to Section 120.1 (c) 5.

EXCEPTION: Area with the design winter outdoor temperature of greater than 32 °F

EXCEPTION: Area with the design summer outdoor temperature of less than 100 T

convention, auditorium, and meeting center rooms greater than 750 ft² that do not have

processes or operations that generate dusts, fumes, vapors, or gases shall be equipped

a) Automatically setup the operating cooling temperature set point by 2 °F or more and

2) Automatically restart and temporarily operate the system as required to maintain:

accessible manual override that allows operation of the system for up to 4 hours;

temperature range or dead band of at least 5 °F within which the supply of heating

L. Hotel/motel guest room thermostats shall have numeric temperature setpoints in 'F and 'C;

M. All air distribution system ducts and plenums, including, but not limited to, building cavities,

be installed, sealed, and insulated to meet the requirements of the 2016 California

N. The thermostatic controls for HVAC systems shall meet the following requirements as

or remotely by adjustment or selection of sensors to control:

minimum levels specified in Section 120.1(b) or (2) the rate required for make-up of

K. All mechanical ventilation and space—conditioning systems shall be installed with ductwork,

heating is higher than the cut-off temperature for supplementary heating.

J. The lesser of the minimum rate of outdoor air required by Sec. 120.1 (b) 2, or three

H. All unitary systems not controlled by ECMS shall have setback thermostats; capable to program temperature setpoints for at least four periods within a 24 hr period.

I. Heat pumps with supplementary electric resistance heaters shall have controls:

2) Have a permanent label meeting the requirement of Sec. 10-111 (a) 2 if the product is

Sec. 110.6 (b)

Sec. 110.10 (b) 1-B

Sec. 110.2 (2) (c)

Sec. 120.4 (a)

Sec. 120.2 (a) & (b)

Sec. 120.2 (f)

Sec. 120.3

Sec. 110.3 (a) 1

Sec. 110.3 (c) 2

Sec. 110.3 (c) 3

Project Name: Project Address: Compliance Scop M. HVAC SYSTE 1. Equip Name CU/WAC1 Dry System Equipmes	oe:			St Torran	00503				- 1	NRCC-PRF	-OT-E	Page	9 of 20						
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Equip Name	Air	_	Г		Sup	ply Far				Т	Ketui	n Fan	I			onomizer T		Pass	=
Equip Name	СҒМ	c	СҒМ	НР	ВНР	(inc	h Co	ntrol	CFM	НР	ВНР	TSP (inch WC)		Control		(if present	:)		
AC120AB	1038	_	1000	2.300	2.300	2.1		SpeedDrive	NA	NA	NA	NA		NA	_	FixedDryBu	_		1
AC102A	778	_	3400	1.600	1.600	1.7		SpeedDrive	NA	NA NA	NA NA	NA NA		NA NA	_	FixedDryBu	-		[
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Dry System Distribution

Location

Other

Additional (Custom) Allowance

(Watts)

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rea Category Footnotes

Additional (Custom) Allowance

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Tailored Method (Watts)

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Tailored Method (Watts)

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Fan Power (watts)

4.2 Other N | | |

Duct Leakage and Duct Leakage will be

Sealing Required per | verified per NA1 and |

NA2

No

Lighting Control Credits

(Watts)

Report Version: NRCC-PRF-01-E-06262019-5583

Lighting Control Credits

Economizer Type

No

140.4(I)

No

No

nstalled Lighting Power

(Watts)

4,150

1,291

944

Installed Lighting Power

(Watts)

1,284

Cooling Capacity (tons)

SZVAVAC

SZVAVAC

Ooes the Project Include Zonal Systems? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info)3

nditioned Floor Area 2

(ft²)

1,142

2,151

1,258

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

950 Francisco St Torrance 90502

Conditioned Floor Area 2

1,070

10,306

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS

Computer Room System Name

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info)3

lultifamily or Hotel/ Motel Occupancy? (if "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)

AC120AB

AC102A

AC36A

CU/WAC1

Occupancy Type

Convention, Conference

Locker/Dressing Room

and Support Areas

Project Address:

Occupancy Type 1

Retail Merchandise Sales

Building Totals

³Lighting information for existing spaces modeled is not included in the table

² See NRCC-LTI-01-E for unconditioned spaces

This Section Does Not Apply

his Section Does Not Apply

This Section Does Not Apply

Wholesale Showroom

Compliance Scope: ExistingAlteration

Multipurpose and Meeting

Corridors, Restrooms, Stairs

Office (Greater than 250

square feet in floor area)

Dining Area

Center Areas

Status: N - New, E - Existing

Compliance Scope:	ExistingAlteration Input File Name: t24_19-755.cibd16x		
Documentation Auth (Retain copies and vo	NSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) — hor to indicate which Certificates must be submitted for the features to be recognized for compliance rerify forms are completed and signed to post in field for Field Inspector to verify). In MCH and LTI Details Sections for Acceptance Tests and forms by equipment.	Confi	rmed
Building Component	Compliance Forms (required for submittal)	Pass	Fail
	☐ NRCI-PLB-01-E - For all buildings with Plumbing Systems		
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.		
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.		
Plumbing	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.		
Fidilibilig	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.		
	☐ NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.		
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.		
	☐ NRCI-STH-01-E - Any solar water heating		
	☐ NRCI-LTI-01-E - For all buildings		
	☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)		
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection pane energize only line-voltage track lighting	el used to	
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater		
Indoor Lighting	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)		
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio		
	☐ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.		
	NRCA-LTI-03-A - Automatic daylighting controls		
	☐ NRCA-LTI-04-A - Demand responsive lighting controls		
	☐ NRCI-LTO-01-E — Outdoor Lighting		
Outdoor Lighting	☐ NRCI-LTO-02-E- EMCS Lighting Control System		
	☐ NRCA-LTO-02-A - Outdoor Lighting Control		
Sign Lighting	□ NRCI-LTS-01-E – Sign Lighting		
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution		
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems		

NRCC-PRF-01-E Page 5 of 20

NRCC-PRF-01-E Page 6 of 20

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Calculation Date/Time: 13:26, Mon, Dec 09, 2019

Framing Cavity Continuous U-Factor / F-Factor
Type R-Value R-Value / C-Factor

373 Wood 0 NA U-Factor: 0.411 A 🔲

Credit

No

EER-11.5 AFUE-82.0

EER-12.0 AFUE-82.0

/ EER-12.00 | AFUE-81.0

SEER-16.00 / EER-12.00 AFUE-81.0

10306 NA 0 NA F-Factor: 0.730

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10306 | Wood | 19 |

SRI

NA

Output (kBtu/h)

Supp Heat Total Cooling

Output (kBtuh)

Report Version: NRCC-PRF-01-E-06262019-5583

Emittance

0.75

Input File Name:

6. Number of Floors Below Grade

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV)

NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls

NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls

NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls

8. Total Gross Surface Area

5.646 ft²

10.306 ft²

NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583

Surface Type

Roof

roduct Density Aged Solar

0.08

Dry System Equipment ¹ (Fan & Economizer info included below in Table N)

Source (Y/N)

ocumentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance

Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment

Compliance Forms (required for submittal)

NRCI-PRC-01-E Covered Processes

NRCA-PRC-02-F- Kitchen Exhaust

NRCA-PRC-03-F- Garage Exhaust

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

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Pass Fail

Confirmed

00.0%

00.0%

§ 110.6

§ 140.3 | Confirmed

00.0%

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NA U-Factor: 0.052 A | | [

Roofing Product

Description

§ 110.1 / § 110.2

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Proiect Name:

Project Address:

2. CA Zip Code

Pumps & Misc.

Indoor Lighting

Other Ltg

Process Motors

Domestic Hot Water

COMPLIANCE TOTAL

3. Climate Zone

A. PROJECT GENERAL INFORMATION

4. Total Conditioned Floor Area in Scope

6. Total # of Stories (Habitable Above Grade)

5. Total Unconditioned Floor Area

7. Total # of dwelling units

1. Project Location (city)

950 Francisco St Torrance 90502

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft 2-yr)

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

Proiect Name:

Project Address:

Project Name:

ompliance Scope: ExistingAlteratio

2. Total Unconditioned Floor Area

. Opaque Surfaces & Orientation

Project Name:

4. Addition Unconditioned Floor Area 0

Project Address: 950 Francisco St Torrance 90502

Compliance Scope: ExistingAlteration

K. OPAQUE SURFACE ASSEMBLY SUMMAR

Surface Name

R-19 Roof4

Slab On Grade6

Product Type

R-19 Roof4

Equip Type

(Packaged3Phase)

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)

(Simple ² or Qty

Complex 3)

J. FENESTRATION SUMMARY

Status: N - New, A - Altered, E - Existing

Equip Name

AC120AB

AC102A

AC60A

L. ROOFING PRODUCT SUMMARY

This Section Does Not Apply

Covered Process

Confirmed

§ 140.6

§ 140.6

Confirmed

950 Francisco St Torrance 9050

Building Component | Compliance Forms (required for submittal)

H. CERTIFICATE OF INSTALLATION. CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV)

cumentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance

(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

NRCA-ENV-02-F- NFRC label verification for fenestratio

NRCA-MCH-03-A – Constant Volume Single Zone HVAC

☐ NRCA-MCH-04-H- Air Distribution Duct Leakage

NRCA-MCH-06-A- Demand Control Ventilation

NRCA-MCH-11-A - Auto Demand Shed Control

NRCA-MCH-14-A- Distributed Energy Storage

NRCA-MCH-15-A – Thermal Energy Storage

NRCV-MCH-04-H- Duct Leakage Test

NRCA-MCH-16-A- Supply Air Temp Reset Controls

NRCA-MCH-12-A- Packaged Direct Expansion Units

NRCA-MCH-07-A — Supply Fan Variable Flow Controls

NRCA-MCH-09-A — Supply Water Temp Reset Controls

NRCA-MCH-10-A- Hydronic System Variable Flow Controls

NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units

NRCA-MCH-17-A – Condensate Water Temp Reset Controls

NRCA-MCH-18-A- Energy Management Controls Systems

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NRCA-MCH-05-A- Air Economizer Controls

NRCA-MCH-08-A- Valve Leakage Test

NRCI-MCH-01-E - For all buildings with Mechanical Systems

See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

NRCI-ENV-01-E - For all buildings

NRCA-MCH-02-A- Outdoor Air

•	ject Name: DCX7			NRCC-PRF-01-E	Page 2 of 20			
Project Ad	ldress:	950 Francisco St Torrance 90502		Calculation Date/Time:	13:26, Mon, Dec 09, 2019			
Compliand	ce Scope:	ExistingAlteration		Input File Name:	t24_19-755.cibd16x			
C. PRIOR	ITY PLAN CI	HECK/ INSPECTION ITEMS (in order of highe	st to lowest TDV energy savin	gs)				
1st	Space Cooli	ng: Check envelope and mechanical	Сот	Compliance Margin By Energy Component (from Table B column 4)				
2nd	Space Heat	ing: Check envelope and mechanical	Space	Cooling				
3rd	Pumps & M	isc.: Check mechanical		Heating				
4th	Heat Reject	ion: Check envelope and mechanical		s & Misc.	-			
5th	Domestic H	ot Water: Check mechanical	Heat F Domestic H	Rejection				
6th	Indoor Light	ting: Check lighting		Lighting				
oth Indoor Lighting: Check lighting								
	macor Eigh			oor Fans				
	Indoor Fans	: Check envelope and mechanical	Ind	por Fans	Penalty Energy Cred	it		
D. EXCEP The buildi	Indoor Fans TIONAL CO	:: Check envelope and mechanical NDITIONS Include service water heating. Verify that service	Ind	por Fans		it		
D. EXCEP The buildi E. HERS \	Indoor Fans	NDITIONS Include service water heating. Verify that service	Ind	por Fans		it		
D. EXCEP The buildi E. HERS \ This Section	Indoor Fans TIONAL COI ng does not i VERIFICATIO on Does Not /	:: Check envelope and mechanical NDITIONS Include service water heating. Verify that service N Apply	Ind	por Fans		it		
D. EXCEP The buildi E. HERS \ This Section	Indoor Fans TIONAL COI ng does not i VERIFICATIO on Does Not /	:: Check envelope and mechanical NDITIONS Include service water heating. Verify that service N Apply	Ind	por Fans		it		

NRCC-PRF-01-E Page 1 of 20

Input File Name:

9. Compliance Software (version)

11. Building Orientation (deg)

2. Permitted Scope of Work

273.55

8. Standards Version

10 Weather File

14 Gas Type

BUILDING COMPLIES

Calculation Date/Time: 13:26 Mon Dec 09 2019

t24_19-755.cibd16x

Compliance 2016

4. Compliance Margin (TDV) 5. Percent Better than Standard

ORRANCE 722955 CZ2010.epw

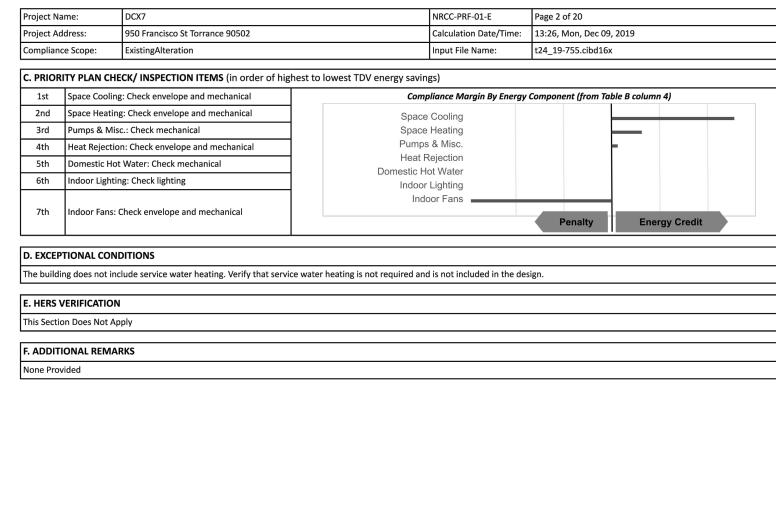
§ 140.1

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EnergyPro 7.2

(N) 0 deg



Project Address: Compliance Scope: G. COMPLIANCE PAT	950 Francisco St Tor ExistingAlteration				NRCC-PRF-01-E	Page 3 of 20	
	ExistingAlteration	rance !	90502		Calculation Date/Time:	13:26, Mon, Dec 09, 2019	
G. COMPLIANCE PAT					Input File Name:	t24_19-755.cibd16x	
	TH & CERTIFICATE OF	сомі	PLIANCE SUMM	ARY			
	Ident	ify wh	ich building comp	onents use the performance or pr	rescriptive path for complia	nce. "NA"= not in project	
	For con	npone	nts that utilize the	performance path, indicate the s	sheet number that includes	mandatory notes on plans.	
Building Component		Com	pliance Path	Compliance Forms (required fo	er submittal)		Location of Mandatory Notes or Plans
			Performance	NRCC-PRF-ENV-DETAILS (section	n of the NRCC-PRF-01-E)		
Envelope			Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05	5 / 06-E		
			NA				
		\boxtimes	Performance	NRCC-PRF-MCH-DETAILS (section	on of the NRCC-PRF-01-E)]
Mechanical			Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 0	05 / 06 / 07-E]
			NA				
			Performance	NRCC-PRF-PLB-DETAILS (section	of the NRCC-PRF-01-E)		_
Domestic Hot Water		\boxtimes	Prescriptive	NRCC-PLB-01-E			
			NA				
			Performance	NRCC-PRF-LTI-DETAILS (section	of the NRCC-PRF-01-E)		
Lighting (Indoor Condit	tioned)		Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-	E		
			NA				
Covered Process:			Performance	S2 (section of the NRCC-PRF-01	-E)		1
Commercial Kitchens			Prescriptive	NRCC-PRC-01/ 03-E			_
			NA				
Covered Process:			Performance	S3 (section of the NRCC-PRF-01	-E)		_
Computer Rooms		냳	Prescriptive	NRCC-PRC-01/ 04-E			_
		무	NA .		_,		
Covered Process:		牌	Performance	S4 (section of the NRCC-PRF-01	-E)		4
Laboratory Exhaust			Prescriptive NA	NRCC-PRC-01/ 09-E			4

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	Identify wh	ich building comp	onents use the performance or prescriptive path for compliance. "NA"= not in pr	roject
	For componer	nts that utilize the	e performance path, indicate the sheet number that includes mandatory notes or	n plans.
Building Component	Com	pliance Path	Compliance Forms (required for submittal)	Location of Mandat Plans
		Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
Envelope		Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
		NA		
Mechanical		Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
		Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
		NA		
Domestic Hot Water		Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	\boxtimes	Prescriptive	NRCC-PLB-01-E	
		NA		
		Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
Lighting (Indoor Conditioned)		Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	\boxtimes	NA		
- 1-		Performance	S2 (section of the NRCC-PRF-01-E)	
Covered Process: Commercial Kitchens		Prescriptive	NRCC-PRC-01/ 03-E	
		NA		
- 1-		Performance	S3 (section of the NRCC-PRF-01-E)	
Covered Process: Computer Rooms		Prescriptive	NRCC-PRC-01/ 04-E	
		NA		
		Performance	S4 (section of the NRCC-PRF-01-E)	
Covered Process: Laboratory Exhaust		Prescriptive	NRCC-PRC-01/ 09-E	
.,		NA		

A Building	Energy Effi	ciency Standards- 2016 Nonre	sidential Compliance Report Version: N	IRCC-PRF-01	L-E-0626201	9-5583 Report G	enerated at: 2019-12-09 13:27:33	
roject Nar	ne:	DCX7		NRCC-P	RF-01-E	Page 4 of 20		
roject Add	lress:	950 Francisco St Torrance	90502	Calcula	tion Date/Tir	me: 13:26, Mon, Dec 09, 2019		
ompliance	mpliance Scope: ExistingAlteration			Input Fi	ile Name:	t24_19-755.cibd16x		
		TH & CERTIFICATE OF COM g components are only eligible relevant to th	for prescriptive compliance. Indicate which are	The follo	wing building	g components may have mandato which are relevant to the p	ry requirements per Part 6. Indicate project.	
Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Forms	
		Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E		\boxtimes	Commissioning: §120.8 Simple Systems Complex Systems	NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CXR-01 / 02 / 04 / 05-E	
	\boxtimes	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E		\boxtimes	Electrical: §130.5	NRCC-ELC-01-E	
	\boxtimes	Lighting (Sign) §140.8	NRCC-LTS-01-E		\boxtimes	Solar Ready: §110.10	NRCC-SRA-01 / 02-E	
					× ×	Covered Process: §120.6 Parking Garage Commercial Refrigeration	NRCC-PRC-01-E NRCC-PRC-02-E	

i ne follow	ing builair	ng components are only eligible relevant to th	e for prescriptive compliance. Indicate which are ne project.	The following building components may have mandatory requirements per Part which are relevant to the project.				
Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Form	
	⊠	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E			Commissioning: §120.8 Simple Systems Complex Systems	NRCC-CXR-01 / 02 / 03 / 0 NRCC-CXR-01 / 02 / 04 / 0	
	\boxtimes	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E		\boxtimes	Electrical: §130.5	NRCC-ELC-01-E	
	\boxtimes	Lighting (Sign) §140.8	NRCC-LTS-01-E		\boxtimes	Solar Ready: §110.10	NRCC-SRA-01 / 02-E	
	⊠	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E			Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E	

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2019-12-09 13:27:33 Contact: Johnny Lai e-mail: johnnyl@rpmpe.com

12/09/2019

architecture

hpa, inc. 18831 bardeen avenue - ste. #100 irvine, ca tel: 949 •863 •1770 fax: 949 • 863 • 0851 email: hpa@hparchs.com

Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST TORRANCE, CA

Consultants:

THIENES Structural Mechanical: Plumbina: Electrical: Landscape: HUNTER LANDSCAPE

Fire Protection:

Soils Engineer:

Title: TITLE 24 FORMS AND NOTES

Project Number: Drawn by: 10/24/19 Date: Revision:

CAUTION: IF THIS SHEET IS NOT A 30" X 42" IT IS A REDUCED PRINT

AIR CONDITIONING SYSTEM (HVAC) COMPLIANCE:

A. Duct systems used with blower type equipment which are portions of a heating, cooling, absorption, evaporative cooling or outdoor air ventilation system shall be sized in accordance with Chapter 6 of the California Mechanical Code.

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		1
ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL Project Name Date	Project Name: DCX7 NRCC-PRF-01-E Page 17 of 20 Project Address: 950 Francisco St Torrance 90502 Calculation Date/Time: 13:26, Mon, Dec 09, 2019	Project Name: DCX7 NRCC-PRF-01-E Page 13 of 20 Project Address: 950 Francisco St Torrance 90502 Calculation Date/Time: 13:26, Mon, Dec 09, 2019
DCX7 DESCRIPTION	Compliance Scope: ExistingAlteration Input File Name: t24_19-755.cibd16x	Compliance Scope: ExistingAlteration Input File Name: t24_19-755.cibd16x
Building Envelope Measures: §110.8(a): Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.	B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY § 140.4 1. 2. 3. 4. 5. 6. 7. 8. Confirmed	T. UNMET LOAD HOURS Thermal Zone Name Cooling Unmet Load Hour Limit for Proposed Cooling Unmet Load Hours Thermal Zone Name
Standards for insulating material, Title 20 Chapter 4, Article 3. §110.8(c): All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.	Rated Capacity (kBtuh) Economizer Zone Name	2-AC102A-training 150 2112.75 150 0
§110.8(g): Heated slab floors shall be insulated according to the requirements in Table 110.8-A.	System ID System Type Qty Heating Cooling Economizer Zone Name Design Min. Min. Ratio BHP Cycles ECM Motor	6-AC60A-conference 150 1825.25 150 53.5
§110.7(a): All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.	1-AC120AB-Trm VAVNoReheatBox 2 NA NA NA 1-AC120AB 8000 4600 0.57 NA NA	U. ENERGY USE SUMMARY Standard Design Site Proposed Design Site Margin Standard Design Site Proposed Design Site Margin
Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft.² of §110.6(a): window area, 0.3 cfm/ft.² of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft.² for nonresidential double doors (swinging).	3-AC102A-locker-Trm VAVNoReheatBox 1 NA NA NA 3-AC102A-locker 379 189 0.50 NA NA	Energy Component
§110.6(a): Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.	2-AC102A-training- Trm VAVNoReheatBox 1 NA NA NA 2-AC102A-training 819 410 0.50 NA NA \square \square \square	Space Cooling 29.8 14.6 15.2 Indoor Fans 14.6 41.0 -26.4
§110.6(a): Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.	6-AC60A-conference- Trm Uncontrolled 1 NA NA NA 6-AC60A-conference 428 NA 0.00 NA NA □ □ □	Heat Rejection
§110.6(b): Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors). The opaque portions of the roof/ceiling that separates conditioned spaces from unconditioned spaces or ambient air	5-AC60A-office-Trm Uncontrolled 1 NA NA NA 5-AC60A-office 1573 NA 0.00 NA NA □ □ <td>Domestic Hot Water 194.9 194.9 0.0</td>	Domestic Hot Water 194.9 194.9 0.0
shall meet the applicable U-Factor requirements as follows: §120.7(a): Metal Building- The weighted average U-factor of the roof assembly shall not exceed 0.098.	8-CU/WAC1-Trm Uncontrolled 1 NA NA NA 8-CU/WAC1 953 NA 0.00 NA NA 🗆	Indoor Lighting 44.6 44.6 0.0 COMPLIANCE TOTAL 90.1 100.2 -10.1 266.3 203.5 62.8
Wood Framed and Others- The weighted average U-factor of the roof assembly shall not exceed 0.075. The opaque portions of walls that separate conditioned spaces from unconditioned spaces or ambient air shall meet the	C. EXHAUST FAN SUMMARY This Section Does Not Apply	Receptacle 52.4 52.4 0.0 Process 30.2 30.2 0.0
applicable U-factor as follows: Metal Building- The weighted average U-factor of the wall assembly shall not exceed 0.113.	D. DHW EQUIPMENT SUMMARY – (Adapted from NRCC-PLB-01)	Other Ltg
Metal Framed- The weighted average U-factor of the wall assembly shall not exceed 0.151. Light Mass Walls- A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.440.	This Section Does Not Apply	TOTAL 172.7 182.8 -10.1 266.3 203.5 62.8
§120.7(b): Heavy Mass Walls- An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.690. Wood Framed and Others- The weighted average U-factor of the wall assembly shall not exceed 0.110.	E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS This Section Does Not Apply	
Spandrel Panels and Opaque Curtain Wall- The weighted average U-factor of the spandrel panels and opaque curtain wall assembly shall not exceed 0.280.	F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)	
Demising Walls The opaque portions of framed demising walls shall meet the requirements of Item A or B below: A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.099. B. Metal Framed walls shall be insulated to meet a U-factor not greater than 0.151.	This Section Does Not Apply	
The opaque portions of floors and soffits that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows:		
§120.7(c): Raised Mass Floors- Shall have a minimum of 3 inches of lightweight concrete over a metal deck or the weighted average U-factor of the floor assembly shall not exceed 0.269.	CA Building Francy (Fficiency Chanderds 2016 Newsonidartial Countiers and Paragraph Version NECC DRS 01 5 00303010 FF93	CA Building Francy (Fficiency Chanderds 2016 Newsonidartial Compliance Parent Version NDCC DBF 01 F 00202010 FF02
Other Floors-The weighted average U-factor of the floor assembly shall not exceed 0.071.	CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2019-12-09 13:27:33	CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2019-12-09 13:27:33
	Project Name: DCX7 NRCC-PRF-01-E Page 18 of 20 Project Address: 950 Francisco St Torrance 90502 Calculation Date/Time: 13:26, Mon, Dec 09, 2019	Project Name: DCX7 NRCC-PRF-01-E Page 14 of 20 Project Address: 950 Francisco St Torrance 90502 Calculation Date/Time: 13:26, Mon, Dec 09, 2019
	Compliance Scope: ExistingAlteration Input File Name: t24_19-755.cibd16x	Compliance Scope: ExistingAlteration Input File Name: t24_19-755.cibd16x
	G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E) Declaration of Required Acceptance Certificates (NRCA) — Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.
	Inspector to verify).	Documentation Author Name: MARICE E. YEE Signature:
	Test Description	Company: RPM Engineers, Inc. Address: 102 Discovery Signature Sete: 12/9/2019
		City/State/Zip: Irvine CA 92618 CEA Identification (If applicable): Phone: (949) 450-1229
	Condens Reset C Equipment Requiring Requiring Requiring # of Reset C Condens Reset C ECI ECI ECI ECI ECI ECI ECI ECI ECI EC	RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:
	Requiring # of controls Fail Fail	1 hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
	AC120AB 2 X X X X X X □ □	2 I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
	AC102A 1 X X X X X	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.
	AC60A 1 X X X X X	Responsible Envelope Designer Name: Robert Michael Jacob Company: HPA, Inc. Signature:
	CU/WAC1 1 X X	Address: 18831 Bardeen Ave, Ste #100 City/State/Zip: Irvine CA 92612 Date Signed: 12/9/2019 Declaration Statement Type: 1
	H. EVAPORATIVE COOLER SUMMARY This Section Does Not Apply	Phone: 949-863-1770 Title: ARCHITECT License #: C22276
	NRCC-PRF-LTI-DETAILS -SECTION START-	Responsible Lighting Designer Name: Lan V. Nguyen Company: RPM Engineers, Inc. Signature: NOT IN SCOPE
	A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) This Section Does Not Apply \$ 140.6	Address: 102 Discovery City/State/Zip: Irvine CA 92618 Declaration Statement Type:
	B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) § 130.1	Phone: 949-450-1229 Title: Responsible Mechanical Designer Name: Maurice E. Yee
	This Section Does Not Apply §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive	Company: RPM Engineers, Inc. Address: 102 Discovery Date Signature: 12/9/2019
		City/State/Zip: Irvine CA 92618 Declaration Statement Type: 1 Phone: 949-450-1229 Title: MECHANICAL ENGINEER License #: M30465
	CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2019-12-09 13:27:33	CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2019-12-09 13:27:33
	CA Building Energy Entitlency Standards 2010 Non-Establishment Meet Version. Nice 111 01 2 00202015 5300	Report Version. Whee FM 61 E 60202015 5365
	Project Name: DCX7 NRCC-PRF-01-E Page 19 of 20 Project Address: 950 Francisco St Torrance 90502 Calculation Date/Time: 13:26, Mon, Dec 09, 2019	Project Name:DCX7NRCC-PRF-01-EPage 15 of 20Project Address:950 Francisco St Torrance 90502Calculation Date/Time:13:26, Mon, Dec 09, 2019
	Compliance Scope: ExistingAlteration Input File Name: t24_19-755.cibd16x	Compliance Scope: ExistingAlteration Input File Name: t24_19-755.cibd16x
	C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) § 140.6 General lighting power (see Table D) 0	NRCC-PRF-ENV-DETAILS -SECTION START-
	General lighting power from special function areas (see Table E) Additional "use it or lose it" (See Table G) NA O	A. OPAQUE SURFACE ASSEMBLY DETAILS 1. 2. 3. 4. 70 70 70 70 70 70 70 70 70 70 70 70 70
	Total watts 0	Surface Name Surface Type Description of Assembly Layers Notes Asphalt shingles - 1/4 in.
	D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) This Section Does Not Apply \$ 140.6-D	Vapor permeable felt - 1/8 in. R-19 Roof4 Roof Plywood - 1/2 in. Wood framed roof, 24in. OC, 5.5in., R-19
	E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) § 140.6(c) 3H	Gypsum Board - 1/2 in. Slab Type = UnheatedSlabOnGrade
	Room Number Primary Function Area Illuminance Value (LUX) Room Cavity Ratio (Table G) Allowed LPD Floor Area (ft²) Allowed Watts Confirmed Pass Fail	Slab On Grade6 UndergroundFloor Insulation Orientation = None Insulation R-Value = R0
	NA N	Concrete - 140 lb/ft3 - 10 in.
	F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)	Stucco - 7/8 in. Vapor permeable felt - 1/8 in.
	Rectangular Spaces Room Number Task/Activity Description Room Length (ft) Room Width (ft) Room Cavity Height (ft) RCR	Wood framed wall, 16in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.
	NA NA NA NA NA NA NA NA NA I I I	B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E) This Section Does Not Apply
	Non-Rectangular Spaces This Section Does Not Apply	C. OPAQUE DOOR SUMMARY Confirmed
	Note: All applicable spaces are listed under the Non-Rectangular Spaces table	1. 2. 3. 4. 5. 6. 7. Pass Fail
	G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E) 1. 2. 3. 4. Confirmed	/ Tag or I.D. Door Type Certification Method Operation Area U-factor Status¹ Hollow Metal Door10 MetalUninsulatedDoubleLayerDoor DefaultPerformance Swinging 72 0.700 A □
	Wall Display Combined Floor Display and Task Lighting Combined Ornamental and Special Effects Lighting Very Valuable Merchandise Allowed Watts	¹ Status: N - New, A – Altered, E – Existing
	CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2019-12-09 13:27:33	CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2019-12-09 13:27:33
	Project Name: DCX7 NRCC-PRF-01-E Page 20 of 20	Project Name: DCX7 NRCC-PRF-01-E Page 16 of 20
	Project Address:950 Francisco St Torrance 90502Calculation Date/Time:13:26, Mon, Dec 09, 2019Compliance Scope:ExistingAlterationInput File Name:t24_19-755.cibd16x	Project Address:950 Francisco St Torrance 90502Calculation Date/Time:13:26, Mon, Dec 09, 2019Compliance Scope:ExistingAlterationInput File Name:t24_19-755.cibd16x
	5. Wall Display	NRCC-PRF-MCH-DETAILS -SECTION START-
	This Section Does Not Apply 6. Floor Display and Task Lighting	A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E) Confirmed
	This Section Does Not Apply	1. DESIGN AIR FLOWS 2. VENTILATION (§ 120.1) H
	7. Combined Ornamental and Special Effects Lighting	Perable 1 141 CONDITION ODEC CO WAXIMU FLOV FLOV SIGN PR
	This Section Does Not Apply 8. Very Valuable Merchandise	Pass
	8. Very Valuable Merchandise This Section Does Not Apply	V Interloc V/N) N) OW (CFN O
	H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E) § 130.4	1-AC120AB AC120AB 8,000 4,600 0.57 NA NA N AC120AB 4,150 0.50 138.3 15.00 2,075 2,075 NA Y NA 🗆
	Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that must be verified in the field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).	1-AC120AB
	Test Description Indoor Outdoor Confirmed	3-AC102A-locker AC102A 379 189 0.50 NA NA N AC102A 370 0.15 3.70 15.00 56 56 NA N NA
	Equipment Requiring Testing or Verification Occ Sensors / Auto Time Switch Auto Daylight Demand Responsive Outdoor Controls	5-AC60A-office AC60A 1,573 NA 0.00 NA NA N AC60A 1,258 0.15 6.29 30.00 189 189 NA N NA 🗆
	Occupant Sensors 0	6-AC60A-conference AC60A 428 NA 0.00 NA NA N AC60A 342 0.50 11.40 15.00 171 171 NA Y NA □ □ □ 7-AC36A AC36A 1,200 NA 0.00 NA NA N AC36A 1,070 0.20 8.92 24.00 214 214 NA N N □ □
	Automatic Daylighting 0 □	8-CU/WAC1 CU/WAC1 953 NA 0.00 NA NA N CU/WAC1 165 0.15 0.25 100.0 25 25 NA N NA
	Outdoor Controls 0	TOTAL 10,306 206.3 3,453 NA

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2019-12-09 13:27:33



HPA architecture

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Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

THIENES Structural: Mechanical: Plumbing: Electrical:

Landscape: HUNTER LANDSCAPE Fire Protection: Soils Engineer:

Title: TITLE 24 FORMS AND NOTES

Project Number: Drawn by: 10/24/19

Date: Revision:

TITLE 24 ELECTRICAL POWER DISTRIBUTION NOTE THIS PROJECT IS A TENANT IMPROVEMENT PROJECT WHICH DOES NOT INSTALL AN ENTIRELY NEW POWER DISTRIBUTION, OR COMPLETELY REPLACE AN EXISTING POWER DISTRIBUTION SYSTEM THEREFORE THE FOLLOWING ITEMS DO NOT APPLY PER 2016 NONRESIDENTIAL COMPLIANCE

- MANUAL SECTION 8.6 ADDITIONS AND ALTERATIONS: SERVICE ELECTRICAL METERING. 2. SEPARATION OF ELECTRICAL CIRCUIT FOR ELECTRICAL ENERGY
- MONITORING 3. CIRCUIT CONTROLS FOR 120V RECEPTACLES AND CONTROLLED RECEPTACLES.

TITLE 24 GENERAL NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH FINAL INSPECTION AND APPLICABLE ACCEPTANCE REQUIREMENT PROCEDURES. INCLUDE ALL COSTS IN THE BASE BID. THIS SHALL INCLUDE. BUT NOT BE LIMITED TO CONSTRUCTION INSPECTION, MEASUREMENTS, MONITORING, FUNCTIONAL TESTING, CALIBRATING, ETC. CONTRACTOR SHALL ASSUME THE ROLE OF "FIELD TECHNICIAN" AND "RESPONSIBLE PERSON" AS DEFINED IN STATE OF CALIFORNIA 2016 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL SECTION 13.2.2.

COMPLIES WITH STATE OF CALIFORNIA 2016 BUILDING ENERGY EFFICIENCY STANDARDS SECTIONS 10-103(a)3A AND 10-103(a)3B AND SECTION 130.4.

COMPLIES WITH STATE OF CALIFORNIA 2016 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL CHAPTER 13. COMPLIES WITH STATE OF CALIFORNIA 2016 BUILDING ENERGY EFFICIENCY

STANDARDS RESIDENTIAL COMPLIANCE MANUAL CHAPTER 2.

PROVIDE COMPLETED INSTALLATION CERTIFICATE(S) AND CERTIFICATED(S) OF ACCEPTANCE AS REQUIRED TO THE SATISFACTION OF THE ENFORCEMENT AGENCY.

EXTERIOR LIGHTING FIXTURE SCHEDULE

Schedule								
Symbol	Label	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage
	SA1	VLL-PLED-III-W-80LED- 1050mA-NW MM511 POLE MT AT 25 ft AFG 22.5 FT POLE 30 IN BASE	CAST BLACK PAINTED FINNED METAL HOUSING, CAST BLACK PAINTED METAL DRIVER COVER, 4 CIRCUIT BOARDS EACH WITH 20 LEDS, 1 CLEAR PLASTIC OPTIC BELOW EACH LED, 1 FORMED SEMI-SPECULAR METAL OPTIC MOUNTING PLATE BELOW EACH CIRCUIT BOARD.	EIGHTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION. PRORATED BASED ON RZRG-120LED ITL & WORSE CASE RZR-80PLED ITL. VOLTAGE (120VAC, 60Hz) TO THE DRIVERS.	80	337	0.9	256.4
	W1	VLL-PLED-IV-FT-80LED- 700mA-NwW WALL MT AT 25 FT AFG	CAST BLACK PAINTED FINNED METAL HOUSING, CAST BLACK PAINTED METAL DRIVER COVER, 4 CIRCUIT BOARDS EACH WITH 20 LEDS, 1 CLEAR PLASTIC OPTIC BELOW EACH LED, 1 FORMED SEMI-SPECULAR METAL OPTIC MOUNTING PLATE BELOW EACH CIRCUIT BOARD.	EIGHTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION. VOLTAGE (120VAC, 60Hz) TO THE DRIVER.	80	247	0.9	173.6
	W2	VLL-PLED-III-W-80LED- 700mA-NW -MM511 WALL MT AT 25 FT AFG	CAST BLACK PAINTED FINNED METAL HOUSING, CAST BLACK PAINTED METAL DRIVER COVER, 4 CIRCUIT BOARDS EACH WITH 20 LEDS, 1 CLEAR PLASTIC OPTIC BELOW EACH LED, 1 FORMED SEMI-SPECULAR METAL OPTIC MOUNTING PLATE BELOW EACH CIRCUIT BOARD.	EIGHTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION. PRORATED BASED ON RZRG-120LED ITL & WORSE CASE RZR-80PLED ITL. VOLTAGE (120VAC, 60Hz) TO THE DRIVERS.	80	254	0.9	173.6
	SA2	VLL-PLED-III-80LED- 700mA-NW-HS MM511 POLE MT AT 25 FT AFG 22.5 FT POLE 30 IN BASE	CAST BLACK PAINTED FINNED METAL HOUSING, CAST BLACK PAINTED METAL DRIVER COVER, 4 CIRCUIT BOARDS EACH WITH 20 LEDS, 1 CLEAR PLASTIC OPTIC BELOW EACH LED, 1 MOLDED BLACK PLASTIC HOUSE SIDE SHIELD BELOW EACH OPTIC, 1 FORMED SEMI-SPECULAR METAL OPTIC MOUNTING PLATE BELOW EACH CIRCUIT BOARD.	EIGHTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION. PRORATED BASED ON 120LED ITL & WORSE CASE RZR-80PLED ITL. PR - LUMEN OUTPUT PRORATED FROM UPDATED TESTING (04/17).	80	198	0.9	173.6

LIGHTING FIXTURE SCHEDULE MAKE ALL NECESSARY ALTERATIONS TO COORDINATE AND CONNECT THE EXISTING WITH THE NEW ELECTRICAL WORK TO THE END THAT WHEN THE WORK IS COMPLETE. THE ENTIRE ELECTRICAL INSTALLATION, EXISTING AND NEW, SHALL BE IN COMPLETE OPERATING CONDITION. THE DRAWINGS INDICATE THE WORK WHICH IS TO BE IN PLACE AT THE COMPLETION OF THE EXCEPT WHERE SPECIFICALLY NOTED TO THE CONTRARY, ALL EXISTING FIXTURES, SWITCHES AND OTHER MATERIALS OR EQUIPMENT THAT IS REPLACED WITH NEW AND IS NOT INDICATED TO BE REUSED SHALL BE TURNED OVER TO THE OWNER OR BE DISPOSED OF AS DIRECTED EXISTING MATERIAL TO REMAIN UPON COMPLETION IS INDICATED ON DRAWINGS AS EXISTING. CONDUIT AND WIRING IS EXISTING TO THEIR RESPECTIVE SOURCE. ALTHOUGH NOT INDICATED ON THE DRAWINGS, THIS MAY REQUIRE THE TEMPORARY REMOVAL OR RE-ROUTING OF CONDUITS AND REPLACING EXISTING WIRING WITH NEW DURING THE COURSE OF CONSTRUCTION FURNISH AND INSTALL NEW BLANK PLATES FOR ALL REMOVED OUTLETS, SWITCHES, LIGHT REMOVE ALL EXISTING CONDUCTORS AND EXPOSED CONDUITS ABANDONED BACK TO PANEL MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION WHICH IS BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF RE-ROUTING OF CONDUIT AND WIRING, AS REQUIRED TO SUIT THE EXISTING CONDITIONS. DASHED J-BOX DENOTES APPROXIMATE LOCATION OF EXISTING BOXES IN ACCESSIBLE CEILING SPACE. ALL CONDUIT SHOWN FROM J-BOX IS NEW UNLESS SHOWN OTHERWISE EXISTING LOADS SHOWN ON PANEL SCHEDULES ARE BASED ON ASSUMPTIONS MADE BY FIELD VISIT. NOTIFY ENGINEER AT ONCE IF LOADS EXCEED 16 AMPS ON ANY 20 AMP 1 POLE REVIEW ARCHITECT'S DEMO DRAWINGS FOR LOCATION OF WALLS BEING REMOVED UNDER THIS SCOPE OF WORK AND REMOVE ALL CONDUIT AND WIRING BACK TO LAST DEVICE LEFT REVIEW ARCHITECT'S DEMO DRAWINGS FOR LOCATION AND QUANTITY OF EXISTING FLOOR BOX LOCATIONS BEING REMOVED UNDER THIS SCOPE OF WORK. REMOVE FLOOR BOXES AND ALL CEILING INSTALL FITTINGS, SPECIAL DEVICES AND MATERIAL, WHICH MAY BE REQUIRED

DEMOLITION NOTES

FIXTURES, ETC., WHEN THE OUTLET BOX IS TO REMAIN.

BOARD. LABEL NEW PANEL DIRECTORY AS "SPARE".

IN SERVICE. DO NOT LEAVE ABANDONED.

RPM ENGINEERS,INC. SHALL NOT BE HELD RESPONSIBLE

FINAL BIDS AND/OR CONSTRUCTION BASED ON THESE

ALL CONDUCTORS SHALL BE COPPER AS FOLLOWS:

ALL EQUIPMENTS SHALL BE U.L. LISTED AND INSTALLED

FOR ADDITIONAL NOTES, SPECIFICATIONS, DETAILS,

OF THE ARCHITECT AND CLARIFIED BY THEM FOR

THIS CONTRACTOR FAIL TO PERFORM THIS FUNCTION.

2. LIGHTING STANDARDS REQUIRE A SEPARATE PERMIT.

RECOGNIZED TESTING LABORATORY.

IMC: INTERMEDIATE METAL CONDUIT

EMT: ELECTRICAL METALLIC TUBING

LFMC: LIQUIDTIGHT FLEXIBLE METAL CONDUIT RNC: RIGID NONMETALLIC CONDUIT

LFNC: LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT

4. CONNECTION TO VIBRATING EQUIPMENT: LFMC, LFNC

2. EXPOSED AND SUBJECT TO PHYSICAL DAMAGE: RMC, IMC

5. CONNECTION TO VIBRATING EQUIPMENT: FMC, LFMC

THE FINISH FLOOR OR WORKING PLATFORM.

LIGHTING PLAN NOTES: (TYPICAL FOR ALL SHEETS)

LESS THAN 100 SQ.FT. [CEC 130.1(B)]

WATTS/SF OR SMALLER. [CEC 130.1(B)]

OR WORKING PLATFORM.

120 WATTS. [CEC 140.6]

EXCEPTIONS.

3. CONCEAL IN WALL AND CEILING: EMT, FMC

4. DAMP OR WET LOCATION: RMC, IMC

EXPOSED CONDUIT: IMC, RMC, RNC (TYPE EPC-40-PVC AND EPC-80-PVC)

3. UNDERGROUND CONDUIT: RNC, TYPE EPC-40 OR 80, DIRECT BURIED

1. EXPOSED, NOT SUBJECT TO PHYSICAL DAMAGE: EMT, FMC, RNC

FOR THE PROPER INSTALLATION OF THE CONDUIT SYSTEM.

2. CONCEALED CONDUIT, ABOVE GROUND: IMC, EMT, RNC (TYPE EPC-40-PVC)

6 UNDERGROUND CONDUIT: RNC, TYPE EPC-40 OR 80, DIRECT BURIED CONCEALED

a) ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR

LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM TOP OF THE RECEPTACLE OUTLET BOX OR

RECEPTACLE HOUSING NOR LESS THAN 15" MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF

b) CONTROL SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM

OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE LOCATED NO MORE

FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR

MULTI-LEVEL LIGHTING CONTROLS ARE NOT REQUIRED FOR SPACES

PARTIAL ON/OFF SENSING CONTROLS SHALL BE INSTALLED IN CORRIDORS AND STAIRWAYS AND REDUCE LIGHTING POWER BY AT LEAST 50% WHEN SPACE IS UNOCCUPIED. [CEC 130.1(C)(6)(C)]

AUTOMATIC DAYLIGHTING CONTROLS ARE NOT REQUIRED IF THE GENERAL LIGHTING POWER IN THE SKYLIT DAYLIT ZONE AND PRIMARY

SECONDARY DAYLIGHTING CONTROLS ARE NOT REQUIRED IF THE GENERAL LIGHTING IN SECONDARY DAYLIT ZONE ZONE IS LESS THAN

SWITCHES/SENSORS WITH THE ARCHITECT PRIOR TO ROUGH-IN. NO

DAYLIT ZONE IS LESS THAN 120 WATTS. [CEC 130.1(D)(2)]

OBTAIN AN APPROVAL OF EXACT LOCATION OF ALL NEW

MULTI-LEVEL LIGHTING CONTROLS ARE NOT REQUIRED FOR SPACES 100 SQ.FT. OR LARGER WITH A LIGHTING POWER DENSITY LESS OF 0.5

THAN 48" MEASURED FROM TOP OF OUTLET BOX NOR LESS THAN 15" MEASURED

RMC: RIGID METAL CONDUIT

FMC: FLEXIBLE METAL CONDUIT

THE USE OF CONDUITS

OUTDOORS

D. ALL SIGN REQUIRE SEPARATE PERMITS AND APPROVALS. ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY

CONTROLS, ETC. THAT FORM A PART OF THIS CONTRACT.

ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION

#12 AWG AND SMALLER - SOLID, THHN/THWN-2

TEMPERATURE RATING

ACCORDING TO THE LISTING.

FOR ELECTRICAL CHANGE ORDERS THAT MAY OCCUR SHOULD

DOCUMENTS BE STARTED PRIOR TO ELECTRICAL PLAN CHECK

ALL WORK TO COMPLY WITH THE 2016 CBC, CPC AND CMC AND

THE 2016 CEC (2014 NEC) WITH STATE AND LOCAL AMENDMENTS.

#10 AWG AND LARGER - STRANDED, THWN-2, THHN OR XHHW

ALL TERMINATIONS AND CONDUCTOR SIZES ARE BASED ON 75°C

IMPORTANT BID NOTE

REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS

INCLUSION IN BASE BID. THIS REQUIREMENT WILL BE STRICTLY ENFORCED. NO CHANGE ORDERS WILL BE ALLOWED SHOULD

WIRING BACK TO LAST DEVICE LEFT IN SERVICE. DO NOT LEAVE ABANDONED.

	LIGHTING FIXTURE SCHEDULE						
	TYPE	LAMPS	VOLTS	DESCRIPTION	MANUFACTURER		
	EM $\frac{A}{42}$	(1) 42W LED 4000°K	120/277	RECESSED 2'X4' INDIRECT/DIRECT LED FIXTURE WITH 0-10V LED DRIVER. SUBSCRIPT 'EM' DENOTES FIXTURE SHALL BE EQUIPPED WITH 10W, 90 MINUTE BATTERY PACK. BATTERY PACK MUST BE TITLE 20 COMPLIANT.	LITHONIA #2BLT4-48L-ADP-EZ1-LP840-(E10WLCP) METALUX #24AC-LD5-48-UNV-L840-CD1-U-() (OR APPROVED EQUAL)		
	O	(1) 32W LED 4000°K	120/277	SURFACE MOUNTED 1'X4' WRAPAROUND LED FIXTURE WITH 0-10V DIMMING DRIVER. SUBSCRIPT 'EM' DENOTES FIXTURE SHALL BE EQUIPPED WITH 10W, 90 MINUTE BATTERY PACK. BATTERY PACK MUST BE TITLE 20 COMPLIANT.	LITHONIA #LBL4-40L-EZ1-LP840-(E10WLCP) METALUX #SNLED-LD4-41SL-LW-UNV-L940-CD1-U (OR APPROVED EQUAL)		
	O ●EM	(1) 20.5W LED 4000°K	120/277	CESSED 6"DIA OPEN LED DOWN LIGHT FIXTURE H 0-10V DIMMING DRIVER. LITHONIA #LDN6-40-15-L06-MVOLT-(ELSD)			
	C 23			SUBSCRIPT 'EM' DENOTES FIXTURE SHALL BE EQUIPPED WITH 10W, 90 MINUTE BATTERY PACK. BATTERY PACK MUST BE TITLE 20 COMPLIANT.	(OR APPROVED EQUAL)		
	EM	(1) 69W LED 4000°K	120/277	PENDANT MOUNTED 8' LED STRIP FIXTURE, WITH END OF ROW MOTION SENSOR	LITHONIA #		
	D1 77			SUBSCRIPT 'EM' DENOTES FIXTURE SHALL BE EQUIPPED WITH 10W, 90 MINUTE BATTERY PACK. BATTERY PACK MUST BE TITLE 20 COMPLIANT.	METALUX #8TSNLED-LD5-81SL-LW-UNV-LB-(EL14W) -ERMS360-L840-CD1-U		
					(OR APPROVED EQUAL)		
	EM	(1) 69W LED 4000°K	120/277	PENDANT MOUNTED 8' LED STRIP FIXTURE, WITH MIDDLE OF ROW MOTION SENSOR	LITHONIA #		
	D2 77			SUBSCRIPT 'EM' DENOTES FIXTURE SHALL BE EQUIPPED WITH 10W, 90 MINUTE BATTERY PACK. BATTERY PACK MUST BE TITLE 20 COMPLIANT.	METALUX #8TSNLED-LD5-81SL-LW-UNV-LB-(EL14W) -MRMS360-L840-CD1-U (OR APPROVED EQUAL)		
	⊗	L.E.D.	120/277	UNIVERSAL MOUNTING L.E.D. EXIT SIGN WITH GREEN LETTER AND 90 MINUTE BATTERY PACK.	LITHONIA #LQM-S-3-G-120/277-ELN COOPER		
	5				#APX7R (OR APPROVED EQUAL)		
	EM G	(1) 25W LED 4000°K	120/277	WALL MOUNTED ABOVE DOOR LED FIXTURE EQUIPPED WITH 90 MINUTE BATTERY PACK.	CGT DESIGN #ALAMEDA AM9-WT-LED40-CT4-277-BZ (EM)-BZ		
•							
	LIGHTING FIXTURE NOTES						
	ALL EQUIPMENT TO BE U.L. LISTED. LIGHTING FIXTURES IN CONTACT WITH INSULATION TO BE U.L. LISTED FOR THERMAL BARRIER OR PROVIDE 3" MINIMUM CLEARANCE						
	FOR THERMAL BARRIER OR PROVIDE 3" MINIMUM CLEARANCE.						

ALL EM BATTERIES SHALL BE TITLE 20 COMPLIANT. _ AT PERPENDICULAR PLANE FOR SUSPENDED CEILING TO DIAGONALLY SUPPORT SYSTEM. QUANTITY OPPOSITE CORNER AND EXACT LOCATION PER (TYPICAL FOR 2 CORNERS) ARCHITECTURAL DRAWINGS AND SPECIFICATION. — 12 GAUGE GALVANIZED WIRE FOR FIXTURE HANGER WIRES, TIE WIRE 3 TIMES MIN. (TYPICAL-UON) SUSPENDED CEILING SYSTEM (TYPICAL) - RECESSED LED MAIN RUNNER -LIGHT FIXTURE PROVIDE ONE #12 WIRE AT EACH — CADDY CLIP (TYPICAL FOR 4) CORNER ON THE MAIN RUNNER WITHIN (APPROVED FOR LTG. FIXTURE TYPE) 3" OF THE LIGHT FIXTURE ----FIXTURE MOUNTING DETAIL

- FIXTURES INSTALLED IN FIRE RATED CEILINGS SHALL BE INSTALLED IN AN APPROVED FIRE RESISTIVE MANNER CONSISTENT WITH RATING
- FOR FIXTURE EXACT LOCATIONS, REFER TO LATEST ARCHITECTURAL
- REFLECTED CEILING PLAN. CONFIRM ALL LIGHTING FIXTURE SPECIFICATIONS WITH ARCHITECT
- PRIOR TO ORDER.

architecture

ELECTRICAL SYMBOL LIST

CONDUIT IN OR UNDER, OR UNDERGROUND, 3/4" MINIMUM SIZE.

HOMERUN TO PANEL OR EQUIPMENT AS NOTED

CONDUCTORS, OR AS NOTED.

CONDUCTORS, OR AS NOTED.

──/// 1/2°C.−3 #12

——*////*— 1/2°C.-4#12

──//// 3/4°C.−5#12

TO ACCESSIBLE CEILING SPACE

1/2" CONDUIT WITH EMERGENCY CIRCUIT

EXISTING CONDUIT AND WIRE TO REMAIN

EXISTING CONDUIT AND WIRE TO BE REMOVED

DUPLEX RECEPTACLE IN WALL, +18" OR AS NOTED

SHOW WINDOW DUPLEX RECEPTACLE MOUNTED IN CEILING

GFCI DUPLEX RECEPTACLE IN WALL, +42" OR AS NOTED

TELEPHONE/DATA J-BOX TO ACCESSIBLE CEILING SPACE

J-BOX MOUNTED TO UNDERSIDE FACE OF SLAB BELOW

SINGLE POLE SENTRY SWITCH, +42" OR AS NOTED

CONDUIT AND PULL WIRE TO ACCESSIBLE CEILING SPACE.

CONDUIT AND PULL WIRE TO ACCESSIBLE CEILING SPACE.

DISCONNECT SWITCH, FUSED AS NOTED ON PLAN

EXHAUST FAN, F.B.M., WIRED BY ELECTRICAL

(SENSORSWITCH #WSX 2P FAN)

(<u>nLIGHT</u> #nWSX PDT LV-DX)

REFERENCE TO PLAN NOTES

AV

DN

• UP

⊠cм

SINGLE POLE SWITCH, +42" OR AS NOTED

SPECIAL RECEPTACLE TYPE AS DESIGNATED, +18" OR AS NOTED

SYMBOL

 \bigcirc A

DESCRIPTION

CONDUIT RUN CONCEALED IN WALL OR ABOVE FINISHED CEILING OR AS NOTED

CONDUIT RUN WITH EQUIPMENT GROUNDING CONDUCTOR, SAME SIZE AS CIRCUIT

CONDUIT RUN WITH ISOLATED GROUNDING CONDUCTOR, SAME SIZE AS CIRCUIT

BRANCH CIRCUIT WIRING, 2#12 IN 1/2" CONDUIT AS NOTED OR SYMBOLIZED

---///// 3/4°C.−6 #12

----/////--- 3/4°C.-7 #12

──//////── 3/4°C.-8#12

ELECTRICAL PANELBOARD, AS DESIGNATED, FLUSH OR SURFACE MOUNTED AS INDICATED

SPLIT CIRCUIT DUPLEX RECEPTACLE, UPPER RECEPTACLE SHALL BE OCCUPANCY CONTROLLED.

LETTERED BALLOON INDICATING PANELBOARD OR EQUIPMENT DESIGNATION

DUPLEX/TELE RECEPTACLE FLUSH IN FLOOR BOX WITH DUPLEX HINGE COVERS

CONTROLLED RECEPTACLE SHALL BE CLEARLY MARKED, +18" OR AS NOTED

TWO-GANG DUPLEX RECEPTACLE (QUADPLEX) IN WALL, +18" OR AS NOTED

WALL MOUNTED J-BOXES @ +18" FOR HARDWIRE POWER/TELEPHONE/DATA CONNECTION TO ELECTRIFIED PARTITION SYSTEM. PROVIDE (2) 1-1/4"C.O. FROM

JUNCTION BOX, ABOVE CEILING, OR AS REQUIRED TO SUIT THE APPLICATION

APPROXIMATE LOCATION EXISTING J-BOX IN ACCESSIBLE CEILING SPACE

0-60 MINUTE EXHAUST FAN TIMER. LOCATE PER MECHANICAL DRAWINGS.

PROJECTION SCREEN RAISE/LOWER SWITCH, F.B.O., INSTALLED BY ELECTRICAL

BOX WITH 3/4" CONDUIT AND PULL WIRE TO ACCESSIBLE CEILING SPACE.

CEILING MOUNTED 360 DEGREE MOTION SENSOR WITH SWITCH PACK

(nLIGHT #nCM 9) SUBSCRIPT 'EX' DENOTES EXTENDED RANGE NCM 10 MODEL.

CEILING MOUNTED DUAL TECH 360 DEGREE MOTION SENSOR WITH SWITCH PACK

(nlight #ncm PDT9) SUBSCRIPT 'EX' DENOTES EXTENDED RANGE NCM 10 MODEL.

CEILING MOUNTED 360 DEGREE MOTION SENSOR AND PHOTOCELL WITH SWITCH PACK

(nlight #ncm 9 adcx) subscript 'ex' denotes extended range ncm 10 model.

CEILING MOUNTED 360 DEGREE DUAL TECH MOTION SENSOR AND PHOTOCELL WITH SWITCH PACK

WALL MOUNTED LINE VOLTAGE ON/OFF SWITCH WITH PIR MOTION SENSOR (SENSORSWITCH #WSX).

SWITCH CONTROLS LIGHTING LOAD & EXHAUST FAN, WHERE MINIMUM FAN RUN-TIME CAN BE SET.

(nlight #ncm 9 addx pdt9) subscript 'ex' denotes extended range ncm 10 model.

WALL MOUNTED LOW VOLTAGE SWITCH WITH ON/OFF & DIMMING (nLIGHT #nPODM *P DX)

WALL MOUNTED LINE VOLTAGE 2 CHANNEL ON/OFF SWITCH WITH ON/OFF & MOTION SENSOR.

WALL MOUNTED SINGLE/DUAL DIMMING LEVEL MOTION SENSOR (nLIGHT #nWSX LV-DX)

WALL MOUNTED MULTI-ZONE DIGITAL DISPLAY LIGHTING CONTROLLER. (nlight #npod gfx)

WALL MOUNTED SINGLE/DUAL DIMMING LEVEL DUAL TECHNOLOGY MOTION SENSOR

AUDIO/VIDEO CONNECTIONS FOR TV/PROJECTOR. VERIFY EXACT MOUNTING LOCATION.

CARD READER OUTLET IN WALL +48" OR AS NOTED. SINGLE GANG OUTLET BOX WITH 3/4"

ELECTRONIC PROGRAMMABLE THERMOSTAT OUTLET IN WALL +48" OR AS NOTED. SINGLE GANG

WALL MOUNTED 2 HOUR BY PASS TIMER (TORK #A500 SERIES)

MANUAL MOTOR RATED SWITCH LOCATED @ EQUIPMENT

CONDUIT AND PULL WIRE TO ACCESSIBLE CEILING SPACE.

BUILDING STANDARD LIFE SAFETY SPEAKER

FLEXIBLE WIRING SYSTEM JUNCTION MODULE

FLEXIBLE WIRING SYSTEM CONVERSION MODULE

DENOTES EXISTING DEVICE TO BE RELOCATED

- DENOTES LIGHTING FIXTURE SCHEDULE, LUMINAIRE WATTAGE

DENOTES EXISTING RELOCATED DEVICE AT NEW LOCATION

BUILDING STANDARD SMOKE DETECTOR

CONDUIT STUBBED DOWN

DENOTES EXISTING TO REMAIN

DENOTES NEW TO MATCH EXISTING

CONDUIT STUBBED UP

BUILDING STANDARD WALL MOUNTED MAGNETIC DOOR HOLDER

WITH 3/4" WITH PULL WIRE TO +6" ABOVE ACCESSIBLE CEILING SPACE.

EXHAUST FAN SWITCH, +48" OR AS NOTED ON MECHANICAL DRAWINGS

DENOTES FIXTURE SHALL BE EQUIPPED WITH 90 MINUTE BATTERY PACK

- DENOTES LIGHTING FIXTURE SCHEDULE, LUMINAIRE TYPE DESIGNATION LETTER

TELEPHONE OUTLET IN WALL, +18" OR AS NOTED SINGLE GANG OUTLET BOX WITH 3/4"

COMBINATION TELEPHONE/DATA OUTLET BOX, +18" OR AS NOTED. SINGLE GANG OUTLET

DATA OUTLET IN WALL +18" OR AS NOTED. SINGLE GANG OUTLET BOX WITH 3/4"

DUPLEX RECEPTACLE (20 AMP) +18" OR AS NOTED (ON A SEPARATE CIRCUIT)

GFCI DUPLEX RECEPTACLE IN WALL, +42" OR AS NOTED (ON A SEPARATE CIRCUIT)

FLUSH POKE THRU COMBINATION TELEPHONE, DATA AND POWER WITH FLEX FEED TO

ELECTRIFIED PARTITION SYSTEM. PROVIDE (2) 1-1/4"C.O. FROM TELEPHONE/DATA J-BOX

hpa, inc. 18831 bardeen avenue - ste. #100 irvine, ca tel: 949 •863 •1770 fax: 949 • 863 • 0851 email: hpa@hparchs.com

Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

THIENES Structural: Mechanical: Plumbing: Electrical: Landscape: HUNTER LANDSCAPE

Fire Protection: Soils Engineer:

Title:

ELECTRICAL SYMBOL LIST LTG SCHEDULE **DETAILS AND NOTES**

Project Number: Drawn by:

10/24/19

Date: Revision:

e-mail: euisok@rpmpe.cor

1) IF TOTAL BUILDING SQUARE FOOTAGE IS >10,000 SQ.FT. AUTOMATIC DEMAND RESPONSE IS REQUIRED FOR 2016 T24. *per section 130.1(E)

2) PRODUCTS CAN MEET ANY AND ALL T24 REQUIREMENTS, MUST BE CONFIGURED APPROPRIATELY. FOR HELP WITH A 2016 T24 LAYOUT CONTACT — PERFORMANCE LIGHTING SYSTEMS AT (949)878-9000

POWER SUPPLY), SENSORVIEW SOFTWARE MAX BRIDGE-8 PORT WITH 150 MA POWER SUPPLY PODM 2P DX WH 2 CHANNEL ON/OFF TOGGLE WITH DIMMING PODM 4P DX WH 4 CHANNEL ON/OFF TOGGLE WITH DIMMING PP16 D 16 AMP RELAY PACK WITH 0-10V DIMMING COMPP16 PL T24 16 AMP RELAY PACK FOR PLUG LOAD CONTROL POWER SUPPLY), SENSORVIEW SOFTWARE MAX BRIDGE-8 PORT WITH 150 MA POWER SUPPLY CHANNEL ON/OFF TOGGLE WITH DIMMING COMPP16 D 16 AMP RELAY PACK FOR PLUG LOAD CONTROL PP16 PL T24 16 AMP RELAY PACK FOR PLUG LOAD CONTROL POWER SUPPLY)	ONTROL; CHASE NIPPLE MOUNTING		SERVICE BAY ***********************************
NCM PDT 9 STANDARD RANGE 360° SENSOR—CEILING MOUNT CLASSROOM CLASSROOM CLASSROOM PP16 D SECONDARY DATIGHT ZONE INV. PDT 16 KIT OCCUPANCY SENSOR PP16 D PP16		nBRG 8	CORRIDOR AND STAIRWELL PPODM DX WH PODM 10 OC. SENSOR
NOTE 1 BLK - 120VAC ORN - 277VAC WALL MOUNTED SENSOR CAT 5 PP16 PL T24 INTHE COLUMN ADCX DZ TOTAL ADCX DZ	CAT 5 CEILING MOUNTED SENSOR PP16 D PP16 D PPIMARY DATLIGHT ZONE PRIMARY DATLIGHT ZONE	CAT 5 CA	OPEN OFFICE OPEN OFFICE OPEN OFFICE PRIMARY DAYLOFT ZONE REPLICATION OF DAYLOFT ZONE OPP16 D PRIMARY DAYLOFT ZONE OPP16 D OPP16 D
NOTE 1 BLK - 120VAC ORN - 277VAC	nPODM 2P DX WH NOTE 1 BLK — 120VAC ORN — 277VAC	nPDDM 4P DX WH NOTE 1 BLK - 120VAC ORN - 2777VAC	nCM PDT 9 ADCX OC/DAYLTG SENSOR NITH SECONDARY DAYLIGHT ZONE IN INCM PDT 9 ADCX OC/DAYLTG SENSOR INCM PD



18831 bardeen avenue - ste. #100 irvine, ca tel: 949 •863 •1770 fax: 949 • 863 • 0851 email: hpa@hparchs.com

Owner:

TORRANCE DCX 7

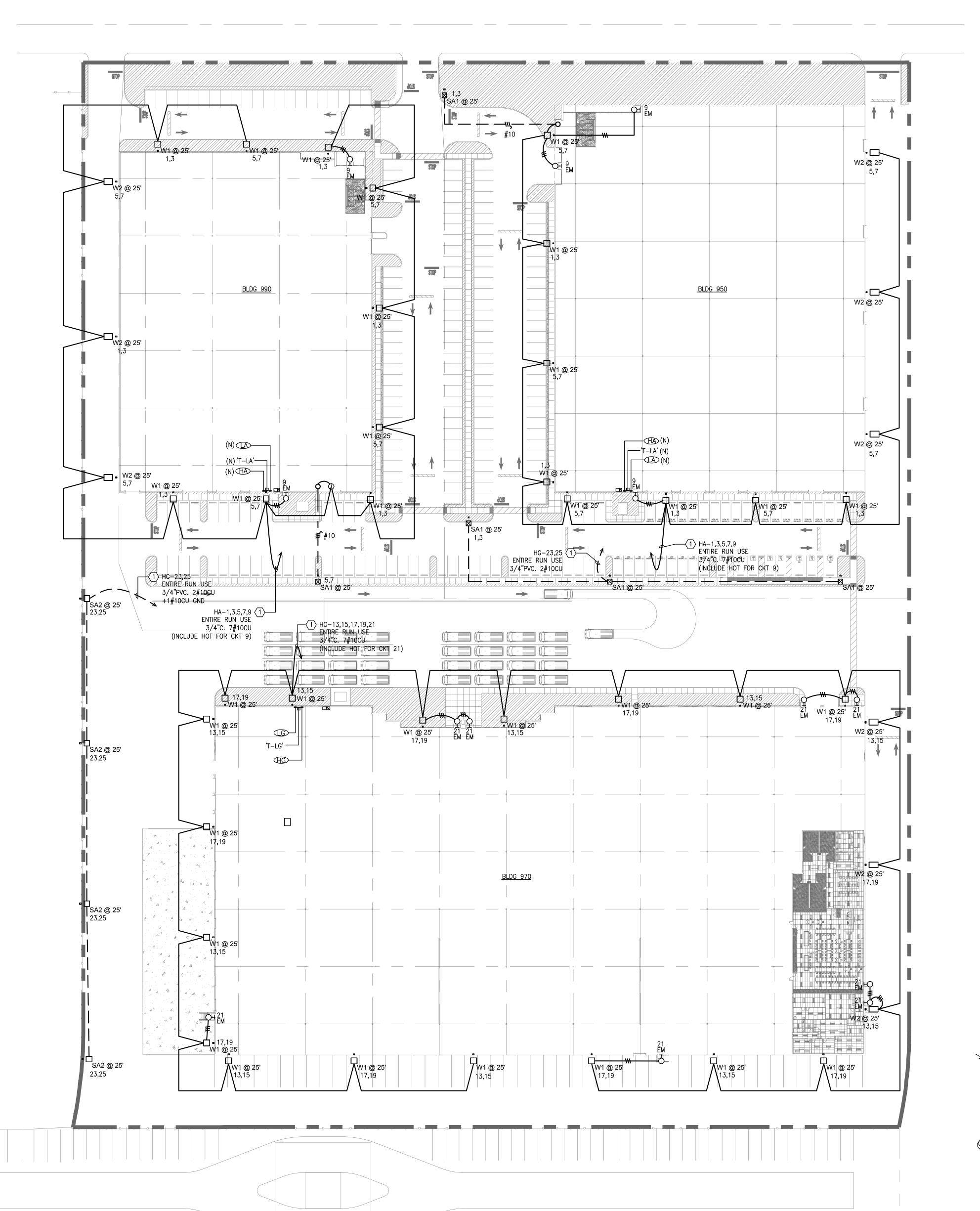
950 FRANCISCO ST. TORRANCE, CA

Consultants:

THIENES Structural: Mechanical: Landscape: HUNTER LANDSCAPE Fire Protection: Soils Engineer:

LIGHTING CONTROL WIRING

Project Number: Drawn by: Date: Revision:



SITE PLAN GENERAL NOTES:

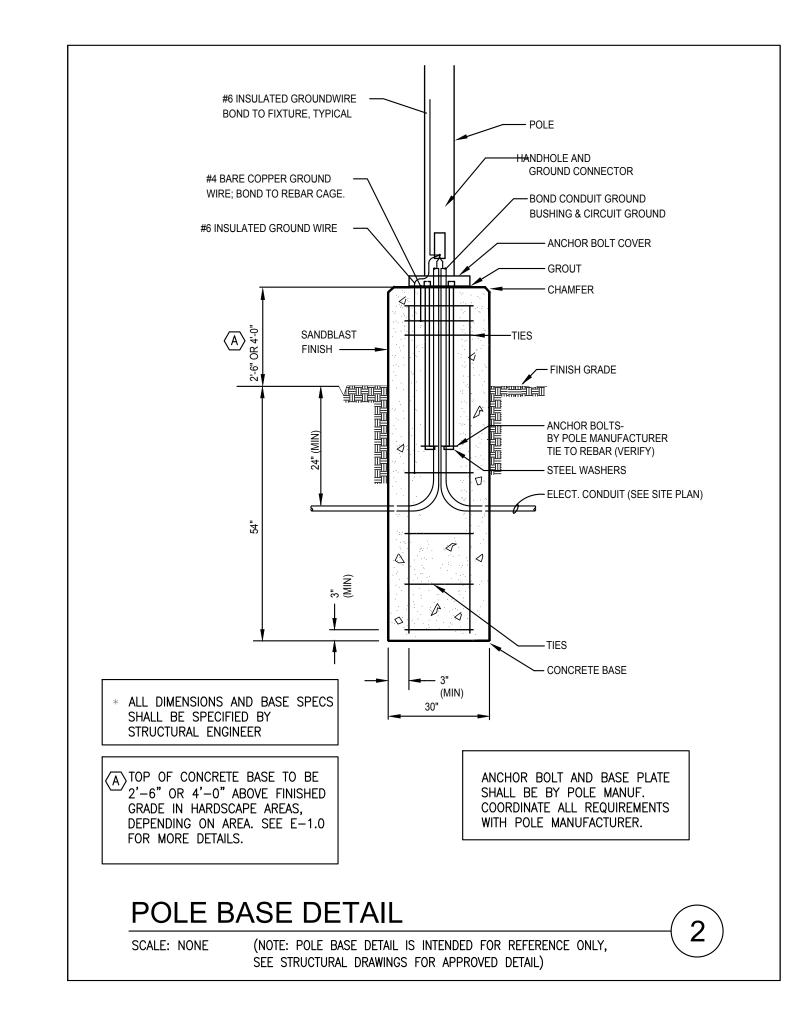
CONTACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING OR CONDUITS, ETC, AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITILIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.

- 2. CALL UNDERGROUND ALERT BEFORE YOU DIG 1-800-227-2600. CALL YOUR LOCAL OFFICE AT LEAST TWO DAYS BEFORE YOU DIG.
- 3. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 80, MINIMUM 3/4"C. RUN CODE SIZE INSULATED EQUIPMENT GROUND CONDUCTOR.
- 4. MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG.
- 5. ALL ELECTRICAL DEVICES/EQUIPMENT MOUNTED OUTDOOR SHALL BE WEATHERPROOF
- 6. ALL FUTURE AND SPARE CONDUITS SHALL BE PROVIDED WITH A NYLON PULL STRING. 7. PRIOR TO TRENCHING, COORDINATE WITH MECHANICAL, CIVIL, LANDSCAPE AND IRRIGATION SITE DRAWINGS.
- 8. UNLESS SPECIFICALLY DIMENSIONED, ALL PANEL AND CONDUIT LOCATIONS ARE FOR DIAGRAMMATIC PURPOSED ONLY AND ARE SUBJECT TO PLACEMENT FOR FIELD
- 9. CONDUITS TO BE MINIMUM 24" BELOW GRADE.
- 10. PROVIDE EASILY IDENTIFIABLE MARKERS AT ALL CONDUIT STUBS.

UTILITY DESIGN AND UTILITY COMPANY COORDINATION IS NOT PART OF RPM ENGINEERS SCOPE OF WORK; INFORMATION IS SHOWN FOR REFERENCE ONLY. CONFIRM ALL REQUIREMENTS WITH SCE/UTILITY CONSULTANT CONST. DOCS

KEYNOTES:

1) DENOTES CIRCUITS TO BE TIMECLOCK CONTROLLED THRU HOUSE LIGHTING CONTROL PANEL.



- PULL BOX NOTES 1. P/B TO BE CHRISTY FIBERLITE FL9 BOX WITH "LIGHTING" ENGRAVED ON LID.
- 2. ALL BOXES SHALL BE SET ON A MINIMUM 8" GRAVEL BASE WITH 1/2" DIAMETER
- 3. ALL INCIDENTAL CONCRETE SHALL BE REMOVED FROM BOXES.
- 4. ALL CONDUITS SHALL HAVE RIGID STEEL RISERS TERMINATING 4" BELOW THE COVER OF THE PULLBOX.
- 5. THE RIGID STEEL SHALL BE WRAPPED W/ 2" HALF-LAPPED 3M INSULATING TAPE OR APPROVED BITUMINOUS COATING (ALL SURFACES). SUBMIT METHOD FOR APPROVAL.
- 6. ALL SPLICES WITHIN PULL BOX TO BE MADE WITH WIRE NUTS AND (3) FULL
 RAPS OF RUBBER TAPE, (3) FULL RAPS
 OF BLACK #88 TAPE AND (3) COATS OF SCOTCHCOAT WATERPROOF RESIN. PROVIDE A MINIMUM OF 18" OF CONDUCTOR BEYOND CONDUITS PER C.O.I. EL NOTE #17.
- 7. PROVIDE IDENTIFYING TAGS ON ALL POWER AND COMMUNICATION CONDUCTORS IN PULL BOXES.

8. CONDUITS TO HAVE BELL ENDS AND BE SEALED WITH DUX SEAL.

PULL BOX DETAIL SCALE: NONE







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Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

THIENES Structural: Mechanical: Plumbing: Electrical: Landscape: HUNTER LANDSCAPE

Soils Engineer:

Fire Protection:

Title:

SITE PLAN Project Number:

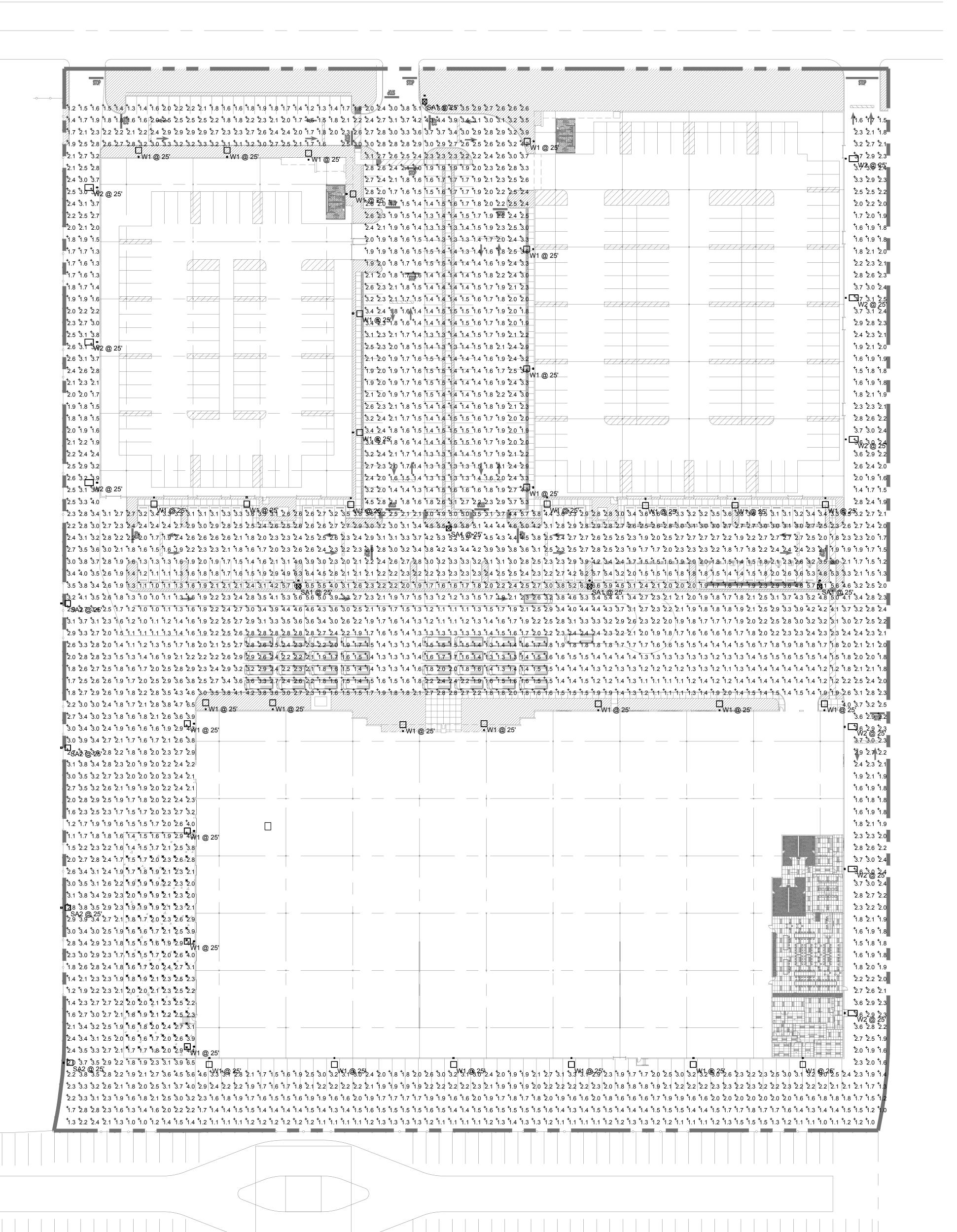
Drawn by: Date:

10/24/19

Revision:

1"=40'-0"

SITE PLAN





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#100 irvine, ca
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fax: 949 • 863 • 0851
email: hpa@hparchs.com

Polar Plot

2

1

Max: 25510cd

Max: 16117cd

Max: 19206cd

Lamps per Lamp

IGHTY WHITE LIGHT

POSITION, PRORATED

ITL. VOLTAGE (120VAC.

EMITTING DIODES (LEDS),

EMITTING DIODES (LEDS),

BASED ON RZRG-120LED ITI

VERTICAL BASE-UP

POSITION, PRORATED

ITL. VOLTAGE (120VAC.

60Hz) TO THE DRIVERS.

EMITTING DIODES (LEDS),

OSITION, PRORATED

BASED ON 120LED ITL &

ITL. PR - LUMEN OUTPUT

WORSE CASE RZR-80PLED

PRORATED FROM UPDATED

VERTICAL BASE-UP

POSITION. VOLTAGE

VERTICAL BASE-UP

EMITTING DIODES (LEDS).

BASED ON RZRG-120LED IT

Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

Civil: THIENES
Structural: HSA
Mechanical: RPM
Plumbing: RPM
Electrical: RPM
Landscape: HUNTER LANDSCAPE
Fire Protection: Soils Engineer: -

Title:
SITE PHOTOMETRIC STUDY

Project Number: 19
Drawn by:
Date: 10/24
Revision:

Sheet

CAUTION: IF THIS SHEET IS NOT A 30" X 42" IT IS A REDUCED PRIN

E-2.1

Catalog Number

SA1

W1

W2

SA2

1050mA-NW MM511

22.5 FT POLE 30 IN

POLE MT AT 25 ft AFG

VLL-PLED-IV-FT-80LED-

700mA-NW -MM511

WALL MT AT 25 FT AFG

700mA-NW-HS MM511

POLE MT AT 25 FT AFG

+ 2.3 fc 6.6 fc 1.0 fc 6.6:1 2.3:1

22.5 FT POLE 30 IN

700mA-NwW WALL MT

CAST BLACK PAINTED FINNED METAL

OUSING, CAST BLACK PAINTED METAL

WITH 20 LEDS, 1 CLEAR PLASTIC OPTIC

BELOW EACH LED. 1 FORMED SEMI-

CAST BLACK PAINTED FINNED METAL

BELOW EACH LED, 1 FORMED SEMI-

CAST BLACK PAINTED FINNED METAL

HOUSING, CAST BLACK PAINTED METAL

DRIVER COVER, 4 CIRCUIT BOARDS EACH

VITH 20 LEDS. 1 CLEAR PLASTIC OPTIC

JSING, CAST BLACK PAINTED METAL

DRIVER COVER, 4 CIRCUIT BOARDS EACH

EACH OPTIC, 1 FORMED SEMI-SPECULAR

METAL OPTIC MOUNTING PLATE BELOW

/ITH 20 LEDS, 1 CLEAR PLASTIC OPTIC

BELOW EACH LED, 1 MOLDED BLACK

PLASTIC HOUSE SIDE SHIELD BELOW

BELOW EACH LED. 1 FORMED SEMI-

BELOW EACH CIRCUIT BOARD

LOW EACH CIRCUIT BOARD.

HOUSING, CAST BLACK PAINTED METAL

DRIVER COVER, 4 CIRCUIT BOARDS EACH

SPECULAR METAL OPTIC MOUNTING PLATE DRIVER.

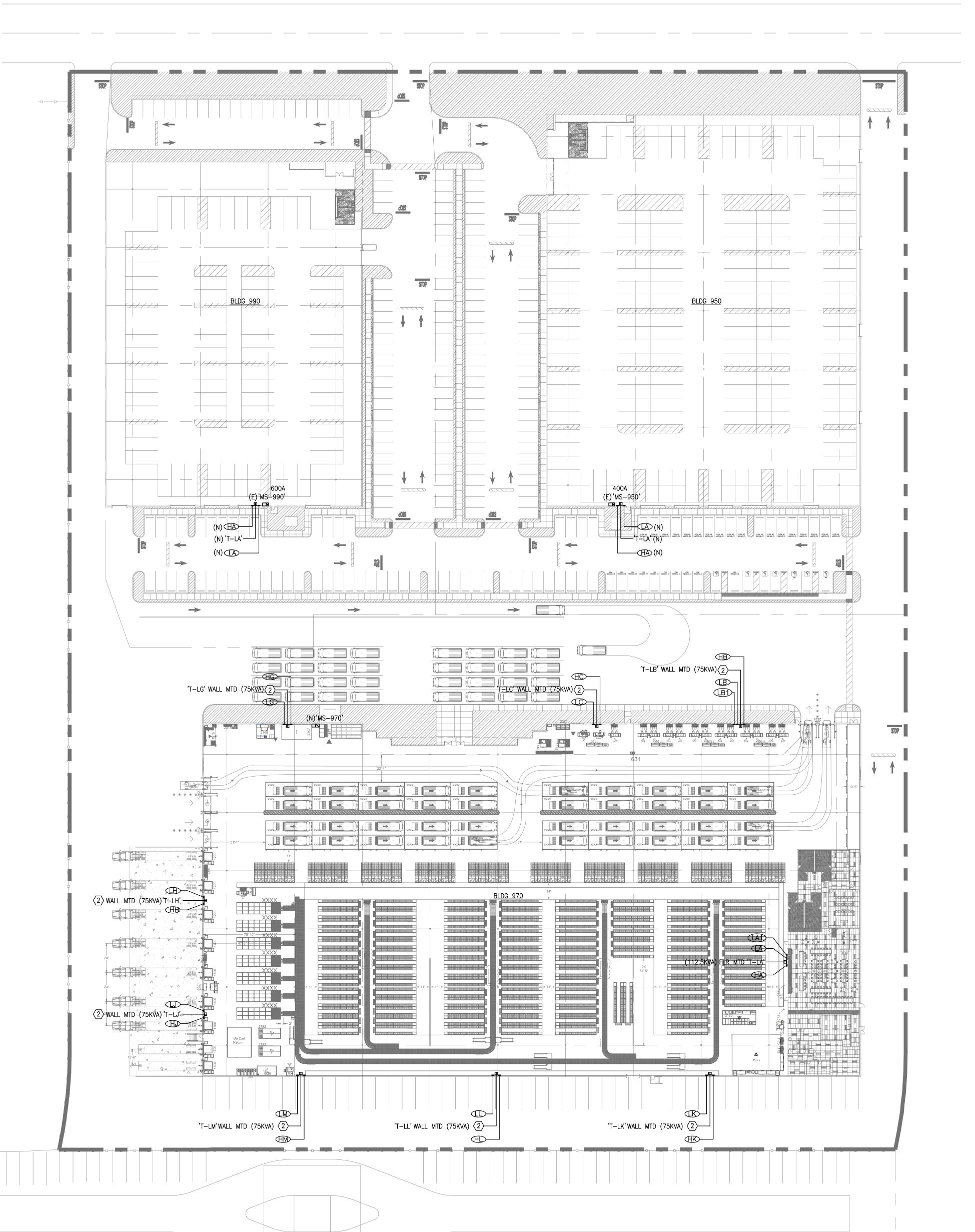
VITH 20 LEDS, 1 CLEAR PLASTIC OPTIC

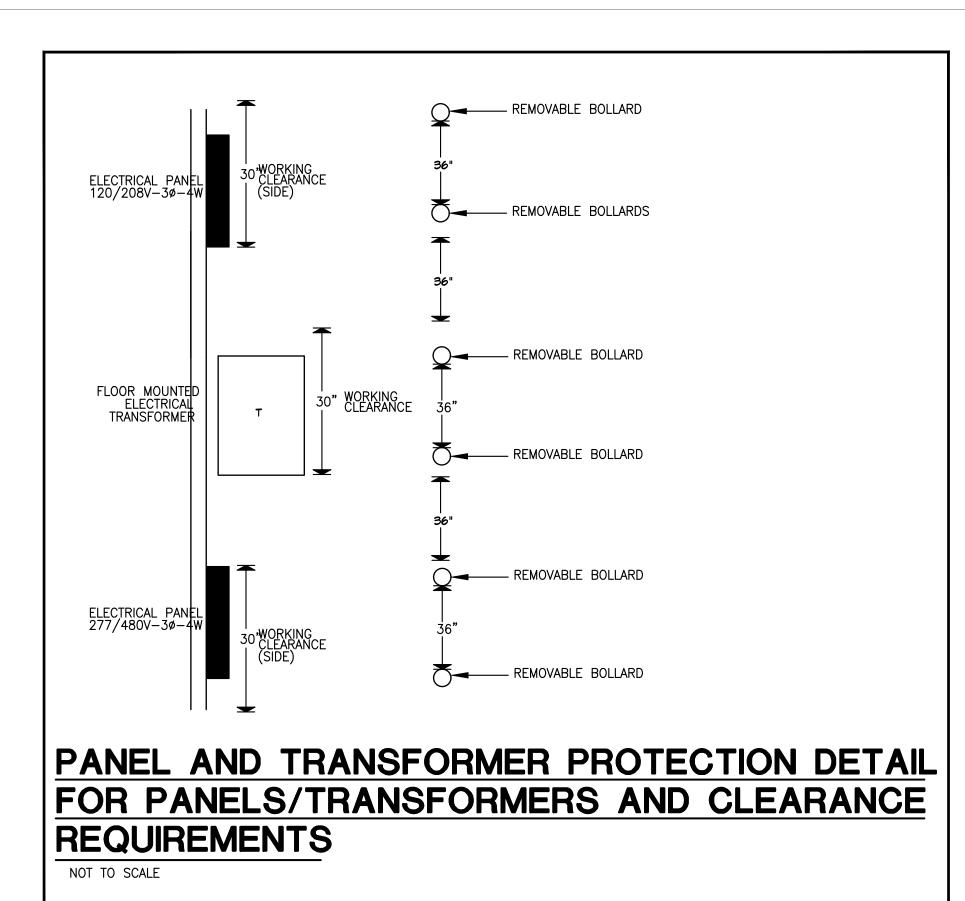
BELOW EACH CIRCUIT BOARD.

DRIVER COVER. 4 CIRCUIT BOARDS EACH

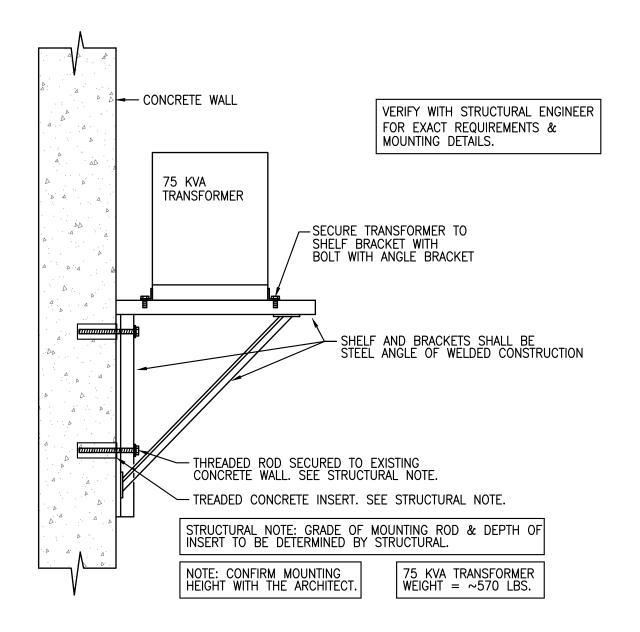
SPECULAR METAL OPTIC MOUNTING PLATE & WORSE CASE RZR-80PLED

SPECULAR METAL OPTIC MOUNTING PLATE & WORSE CASE RZR-80PLED





REQUIRED FOR ALL PANELS/TRANSFORMERS/DISTRIBUTION BOARDS SHOWN ONTHESE PLANS.



TRANSFORMER WALL MOUNTING DETAIL

SCALE: NONE

FOR REFERENCE ONLY

KEYNOTES

1 NOT USED

(2) DENOTES WALL MOUNTED TRANSFORMER. CONFIRM EXACT DETAIL WITH STRUCTURAL.



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Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

Civil: THIENES
Structural: HSA
Mechanical: RPM
Plumbing: RPM
Electrical: RPM
Landscape: HUNTER LANDSCAPE
Fire Protection:

Soils Engineer:

Title:

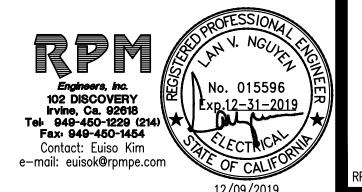
OVERALL

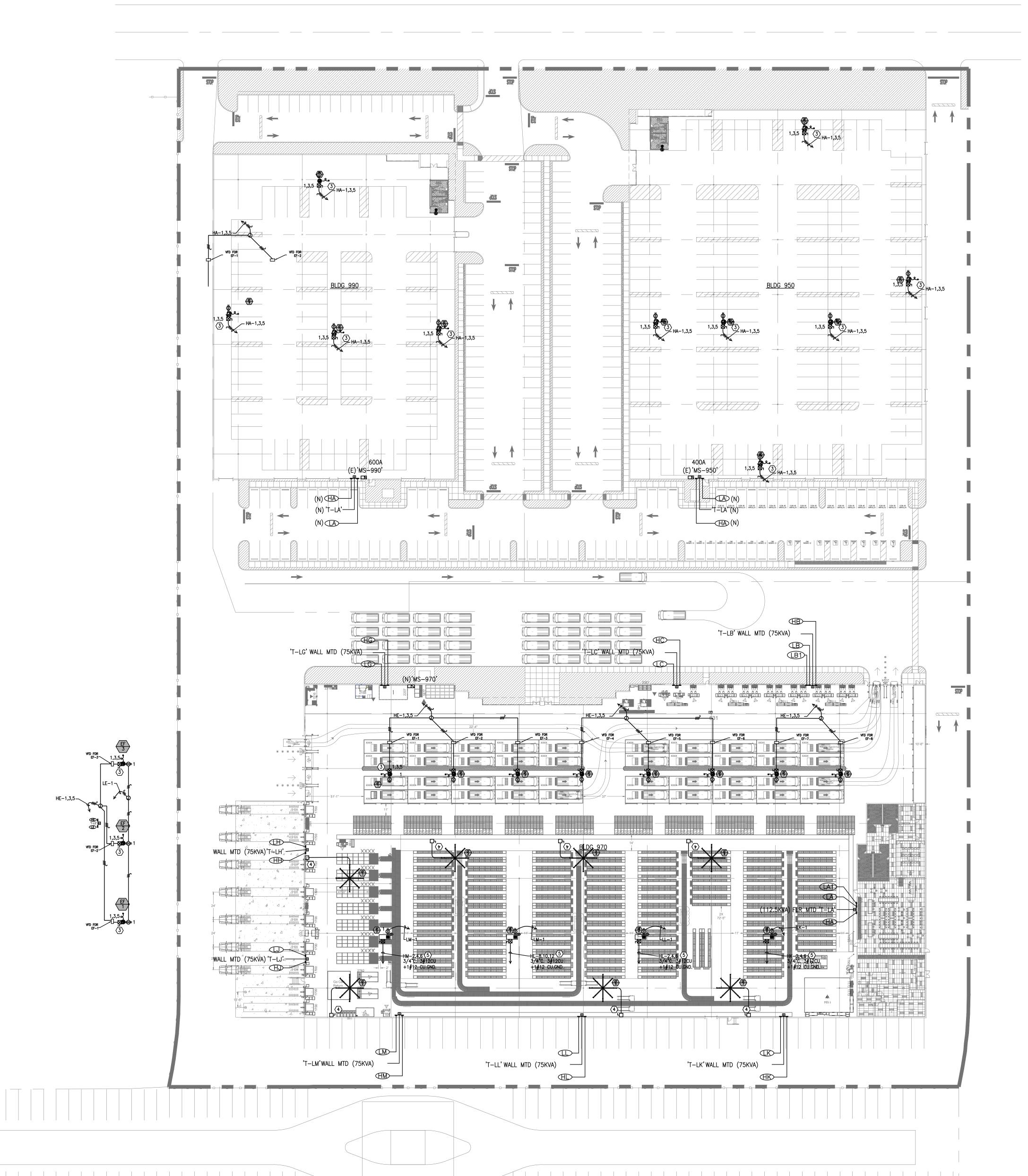
ELECTRICAL

PLAN

Project Number: Drawn by: Date: Revision:

Sheet:





ROOF TOP NOTES:

- 1. ALL EQUIPMENT INDICATED ON ROOF IS WEATHERPROOF.
- 2. ALL OVERCURRENT PROTECTION TO BE SIZED PER EQUIPMENT NAMEPLATES.
- ROUTE ALL CONDUITS TO ROOF-TOP UNITS WITHIN ROOF-TOP UNITS AND HORIZONTALLY 3. THROUGH ATTIC SPACE.
- 4. VERIFY EXACT LOCATION OF EQUIPMENT WITH MECHANICAL DRAWINGS.
- 5. ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT.
- 6. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT.
- 7. OBTAIN AN APPROVAL OF EXACT LOCATION OF ALL NEW SWITCHES WITH THE ARCHITECT AT SITE
- PRIOR TO ROUGH-IN. NO EXCEPTIONS. 8. ALL PANELS SHOWN ON ROOF PLAN ARE FOR LOCATION REFERENCE ONLY. NO PANELS ARE

GENERAL NOTES

LOCATED ON THE ROOF.

- 1. OBTAIN AN APPROVAL OF EXACT LOCATION OF ALL NEW/RELOCATED SWITCHES WITH THE ARCHITECT AT SITE PRIOR TO ROUGH-IN. NO EXCEPTIONS.
- UPON COMPLETION OF DEMO AND PRIOR TO START OF NEW WORK. VERIFY IN FIELD AND EVERY ATTEMPT HAS BEEN MADE TO UTILIZE EXISTING LIGHTING CIRCUIT TO IT'S FULLEST. RE-WORK AND RE-USE EXISTING LIGHTING CIRCUITRY WHEREVER POSSIBLE. PROVIDE NEW COMPONENT, J-BOX, WIRE, CONDUIT, ETC. IF NEEDED SO THAT CIRCUITRY IS MAINTAINED AND FIXTURES ARE CONTROLLED, PLACED AND CONNECTED AS SHOWN AFTER ALL WORK IS COMPLETE.

MINIMUM WIRE SIZE OF #10CU SHALL BE USED FOR WIRING SHOWN ON THIS PLAN

COORDINATE ALL WORK RELATED TO BUILDING MANAGEMENT SYSTEM WITH BMS CONTRACTOR. PROVIDE ANY ADDITIONAL CONDUITS FOR LOW VOLTAGE AS REQUIRED.

WAREHOUSE KEYNOTES

- PROVIDE 1/2"C.O. FOR CONTROL WIRING. SEE MECHANICAL DRAWINGS FOR REQUIREMENTS AND
- WEATHER RESISTANCE GFCI RECEPTACLE WITH EXTRA DUTY WEATHER PROOF COVER FOR HVAC SERVICE. MOUNT WITHIN 25' OF HVAC UNIT.
- PROVIDE W.P. 30AS/15AF/3P FUSIBLE DISCONNECT SWITCH AND MAKE CONNECTION TO UNIT. CONFIRM EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH SUPPLIER PRIOR TO ROUGH-IN.
- CONFIRM EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH SUPPLIER PRIOR TO ROUGH-IN.

 $\langle 5 \rangle$ provide w.p. 30as/25af/3p fusible disconnect switch and make connection to unit.

CONFIRM EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH SUPPLIER PRIOR TO ROUGH-IN.



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TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

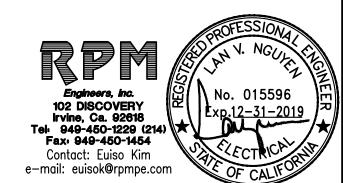
THIENES Electrical: Landscape: HUNTER LANDSCAPE Fire Protection: Soils Engineer:

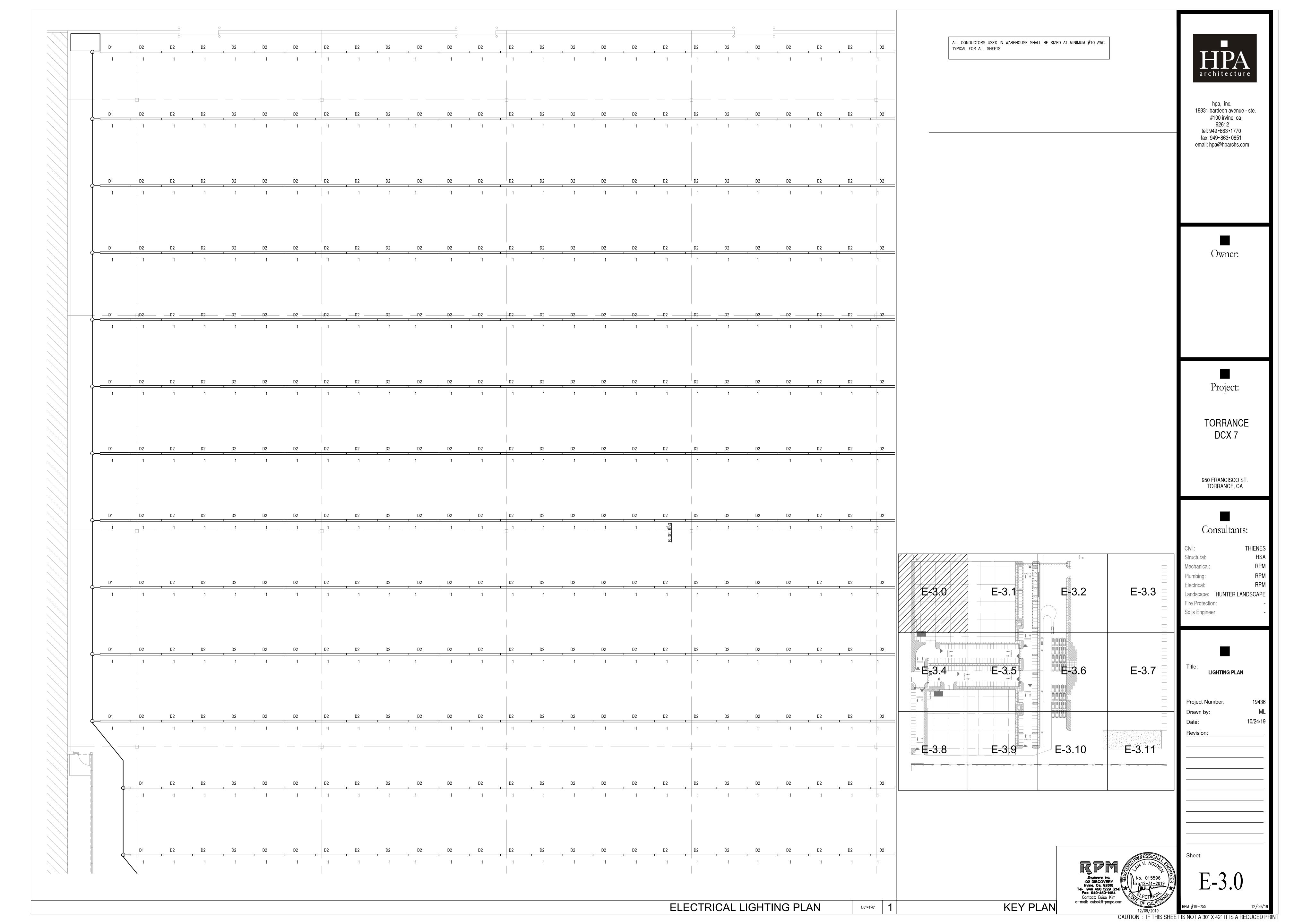


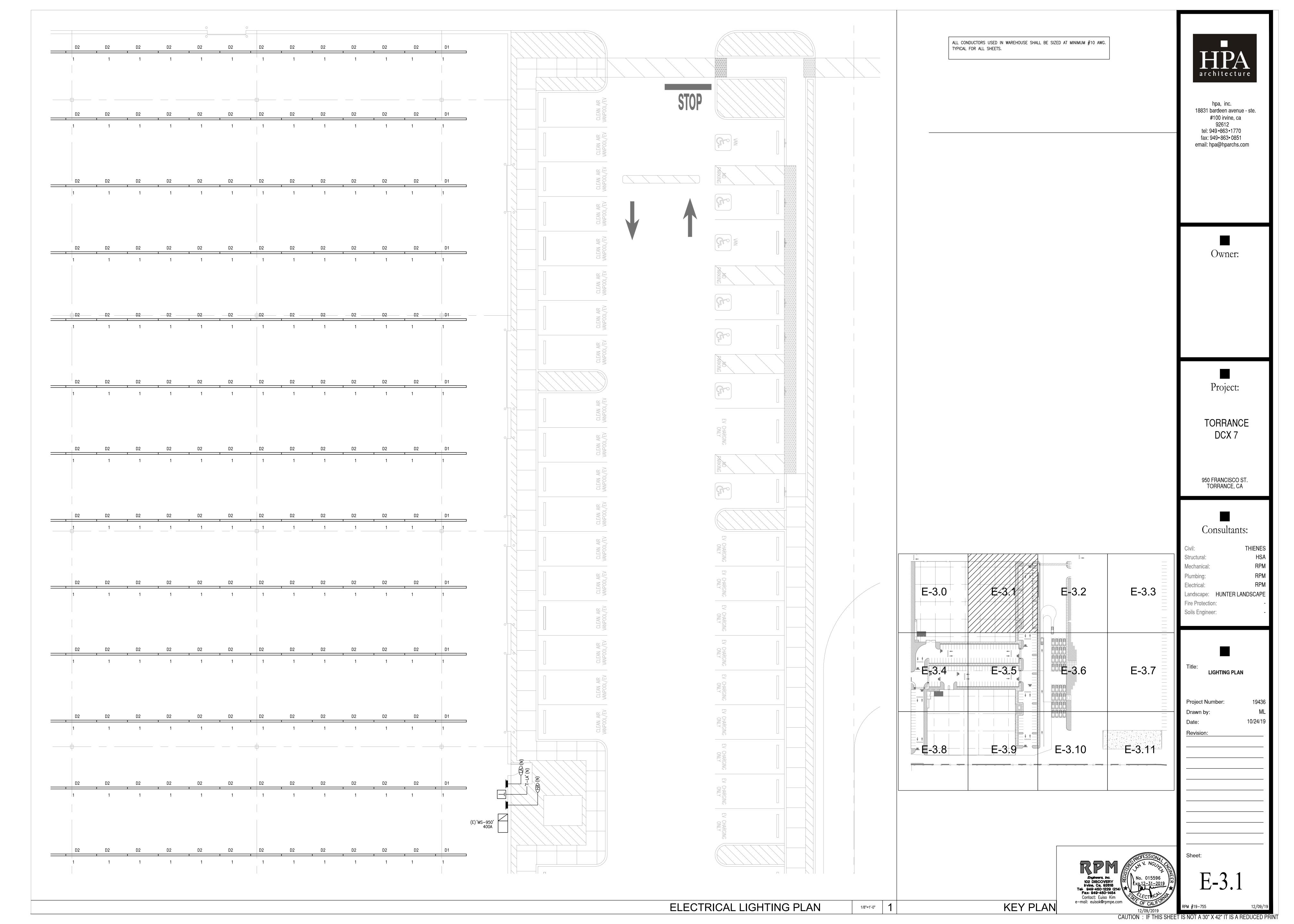
Project Number: Drawn by: Date:

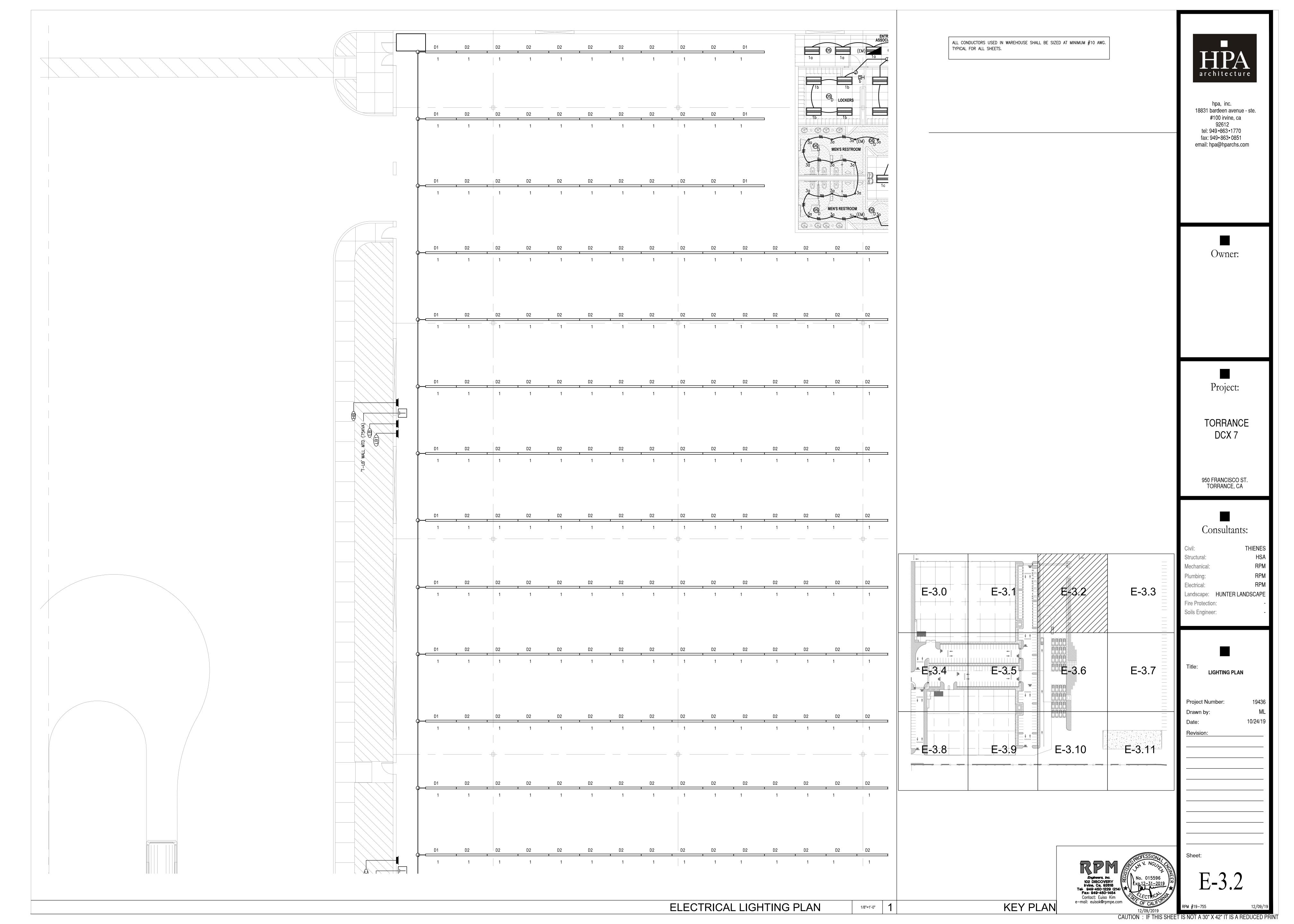
HVAC PLAN

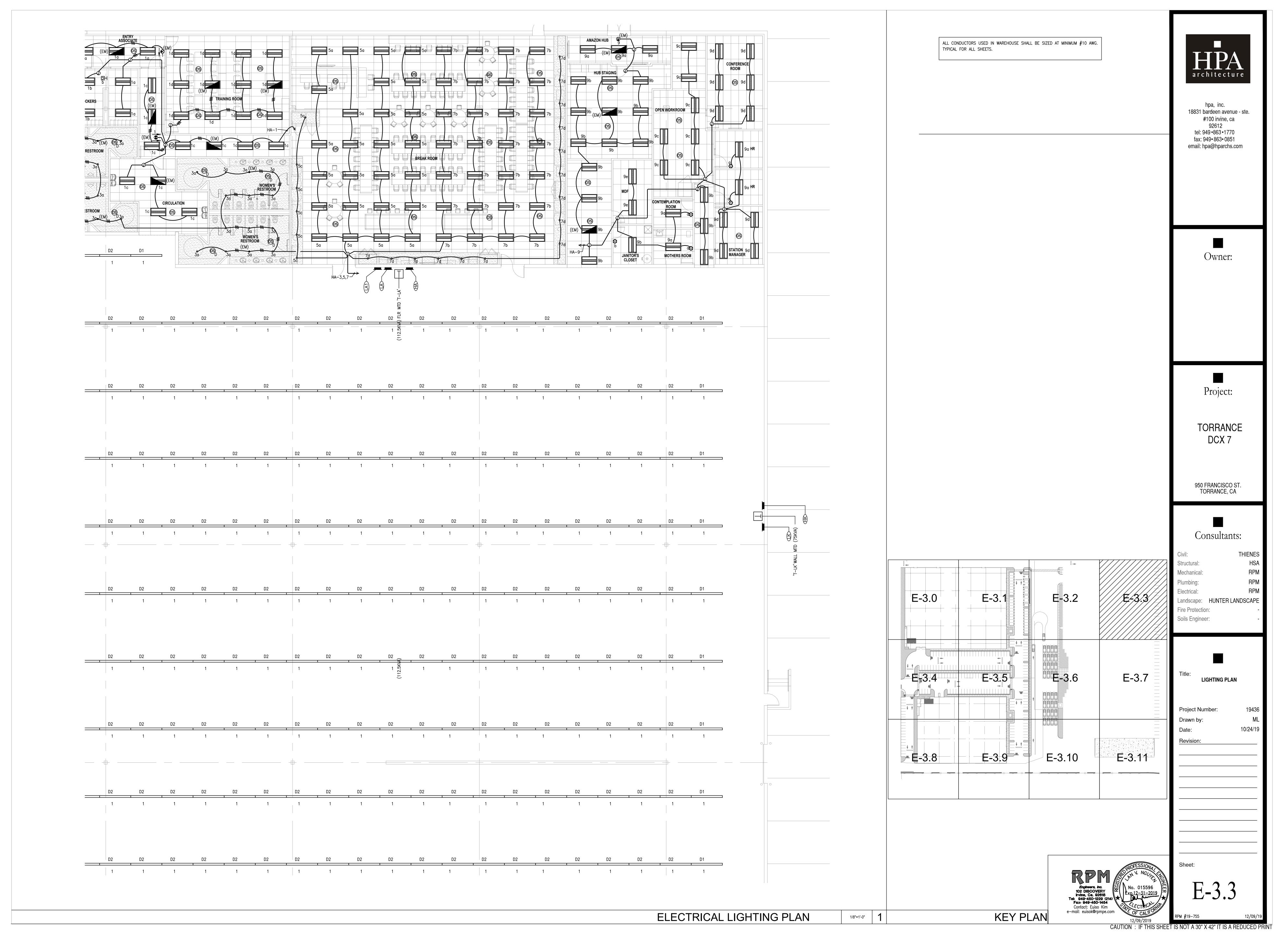
Revision:

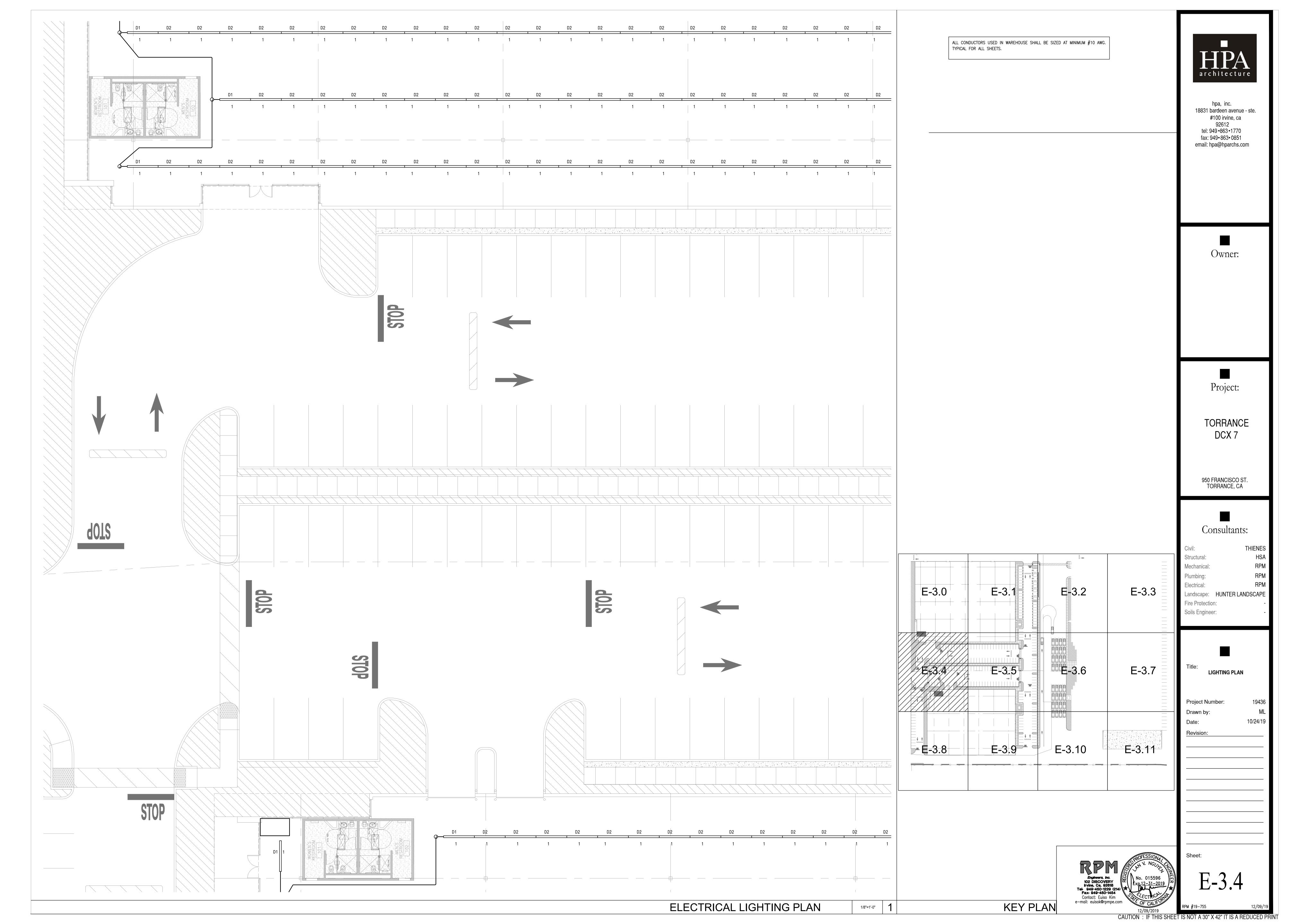


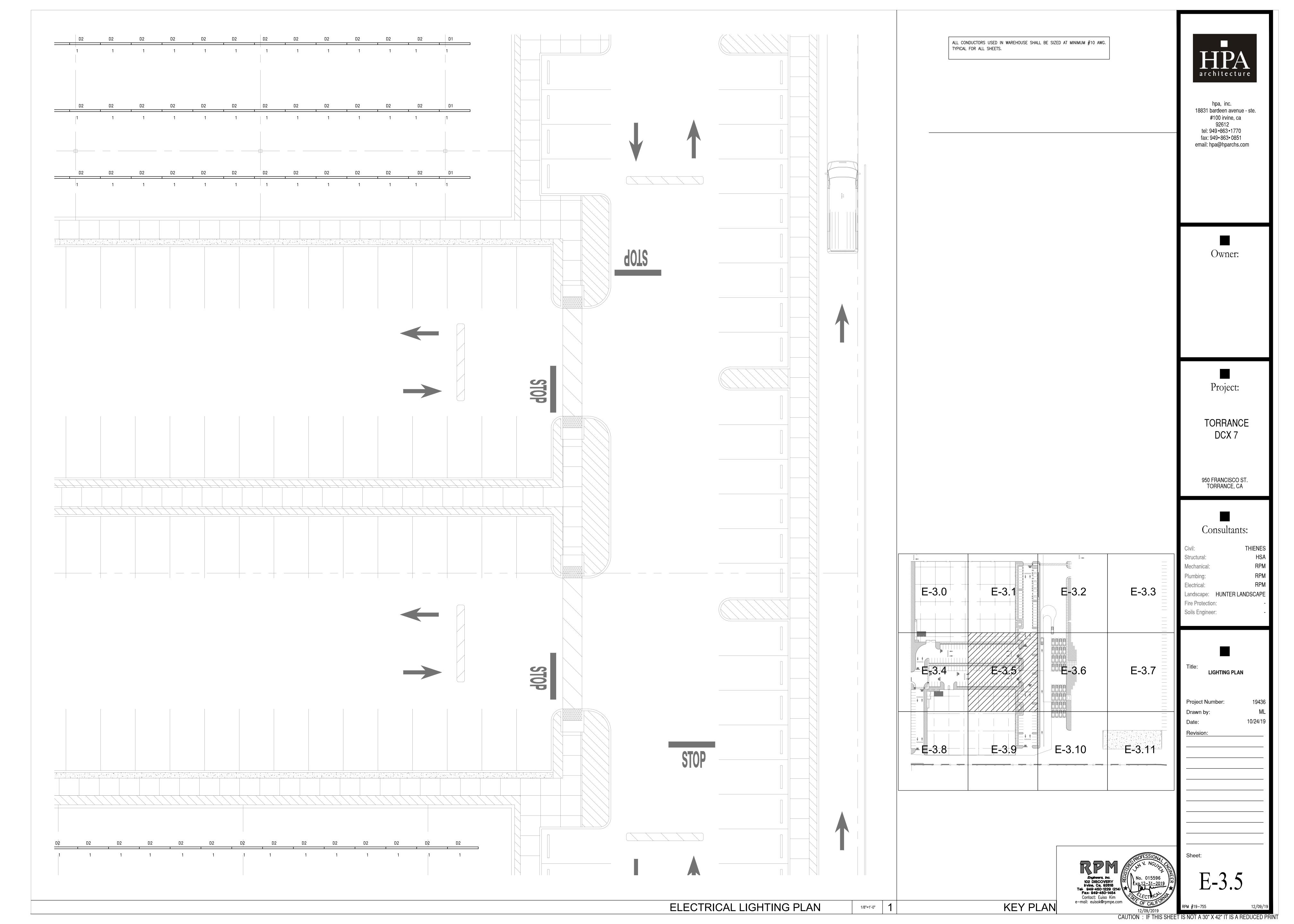


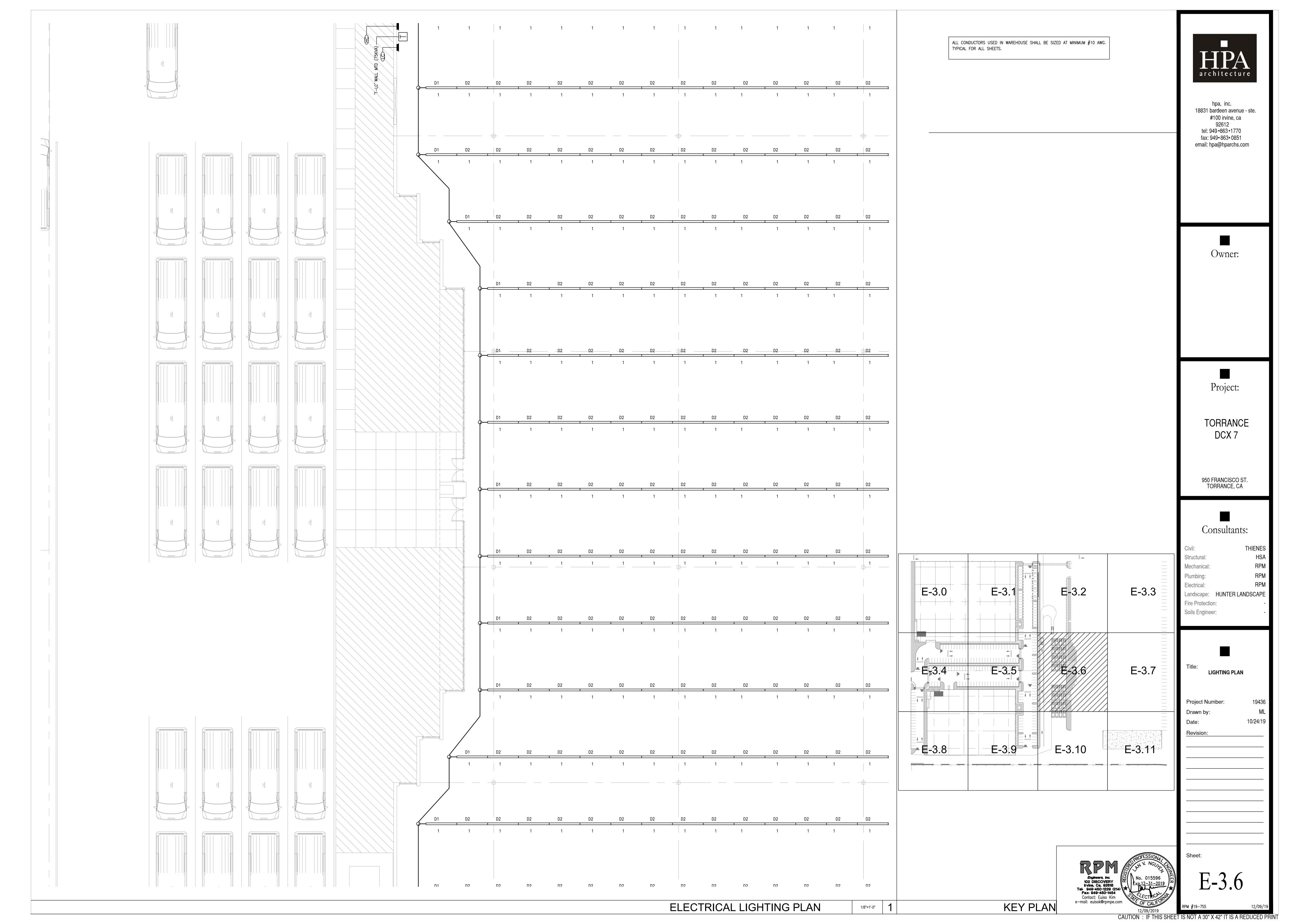


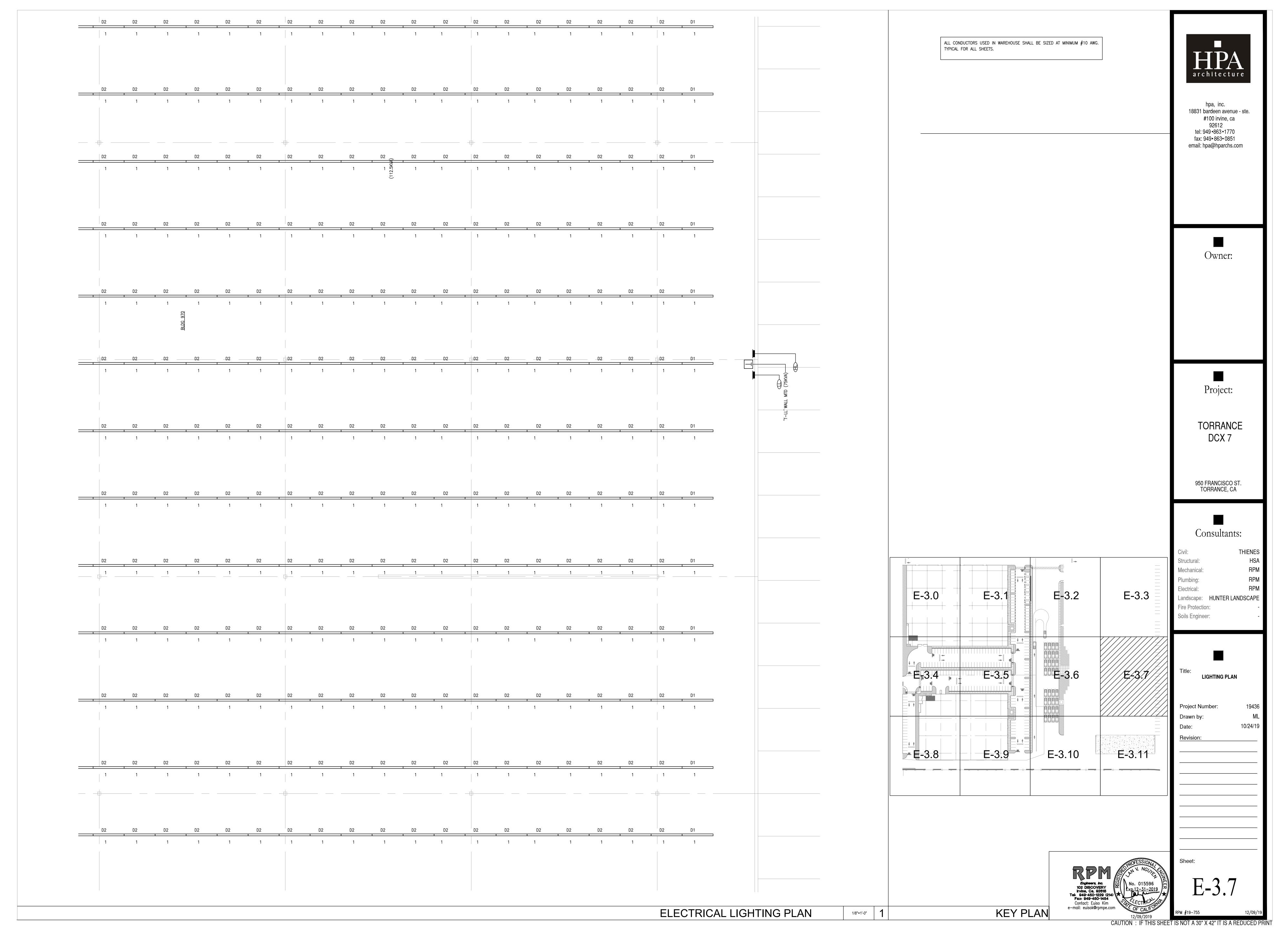


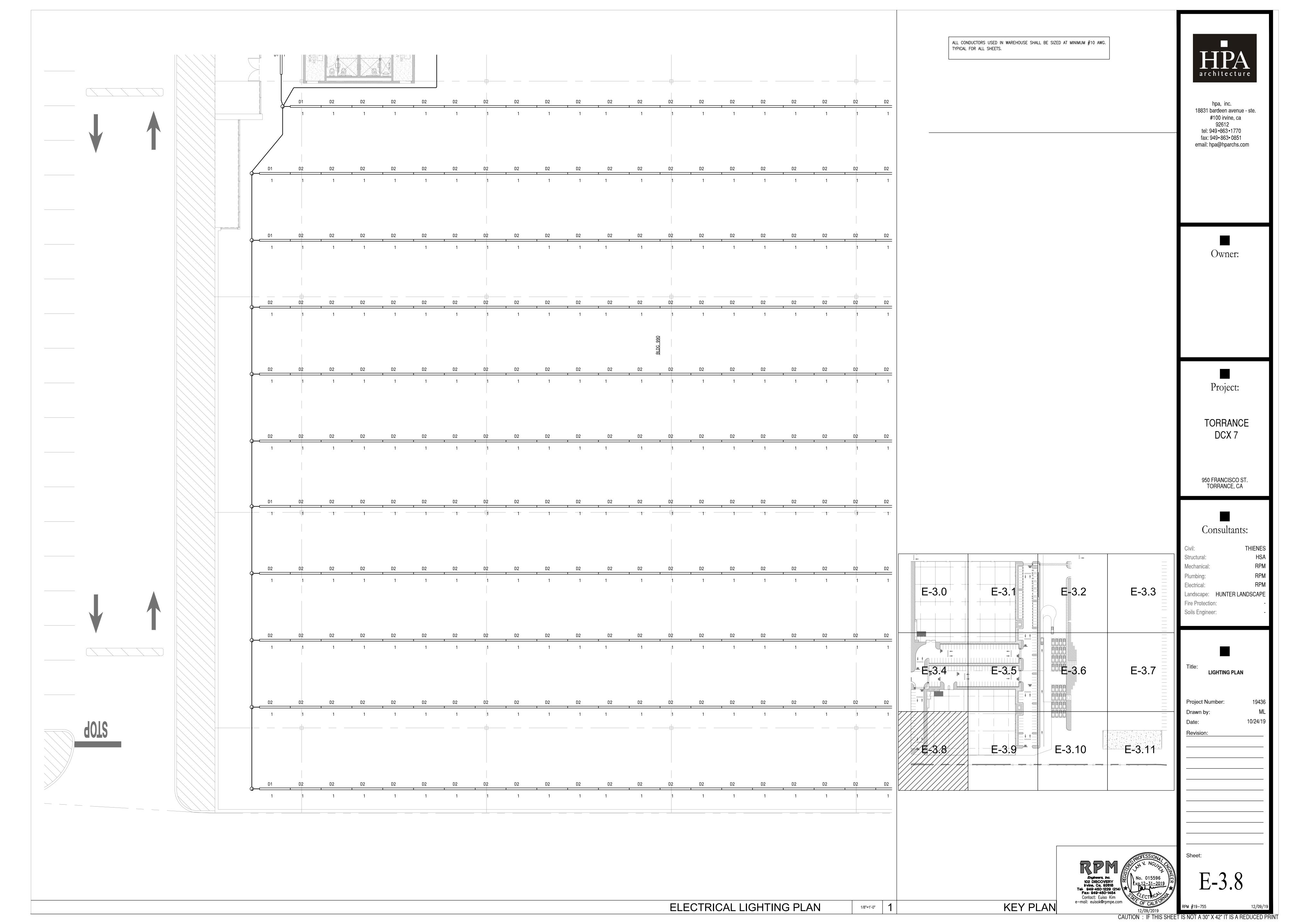


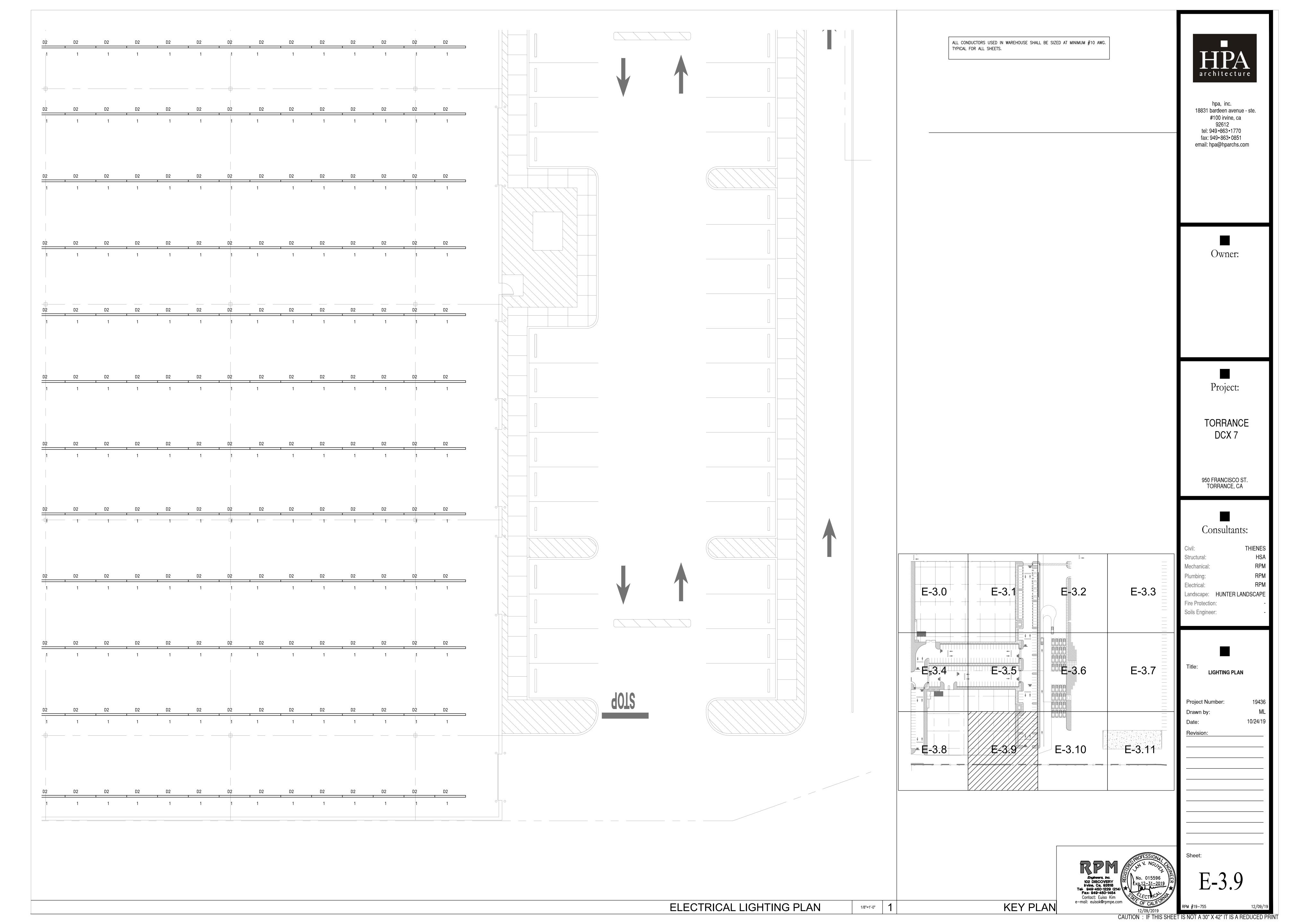


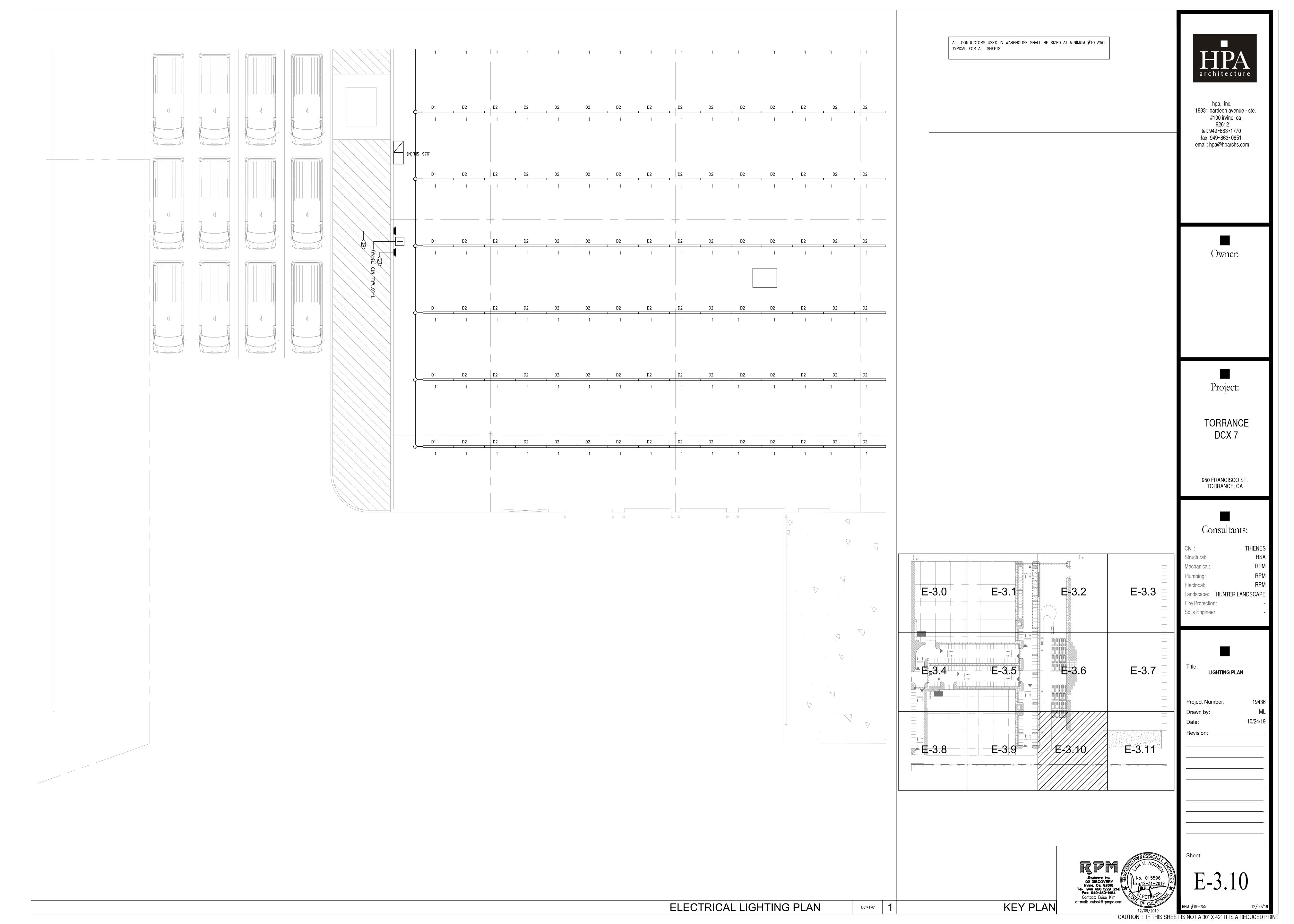


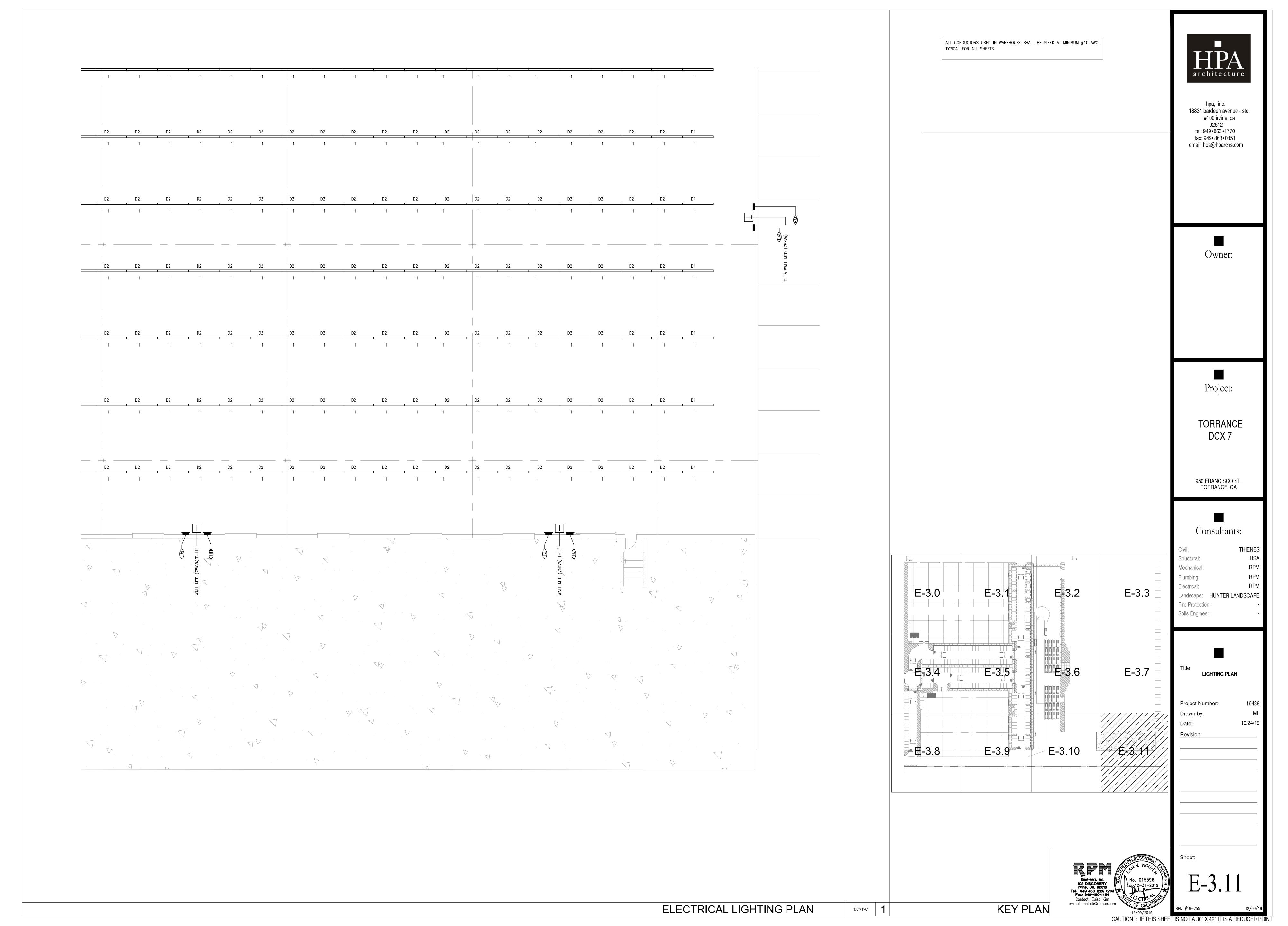


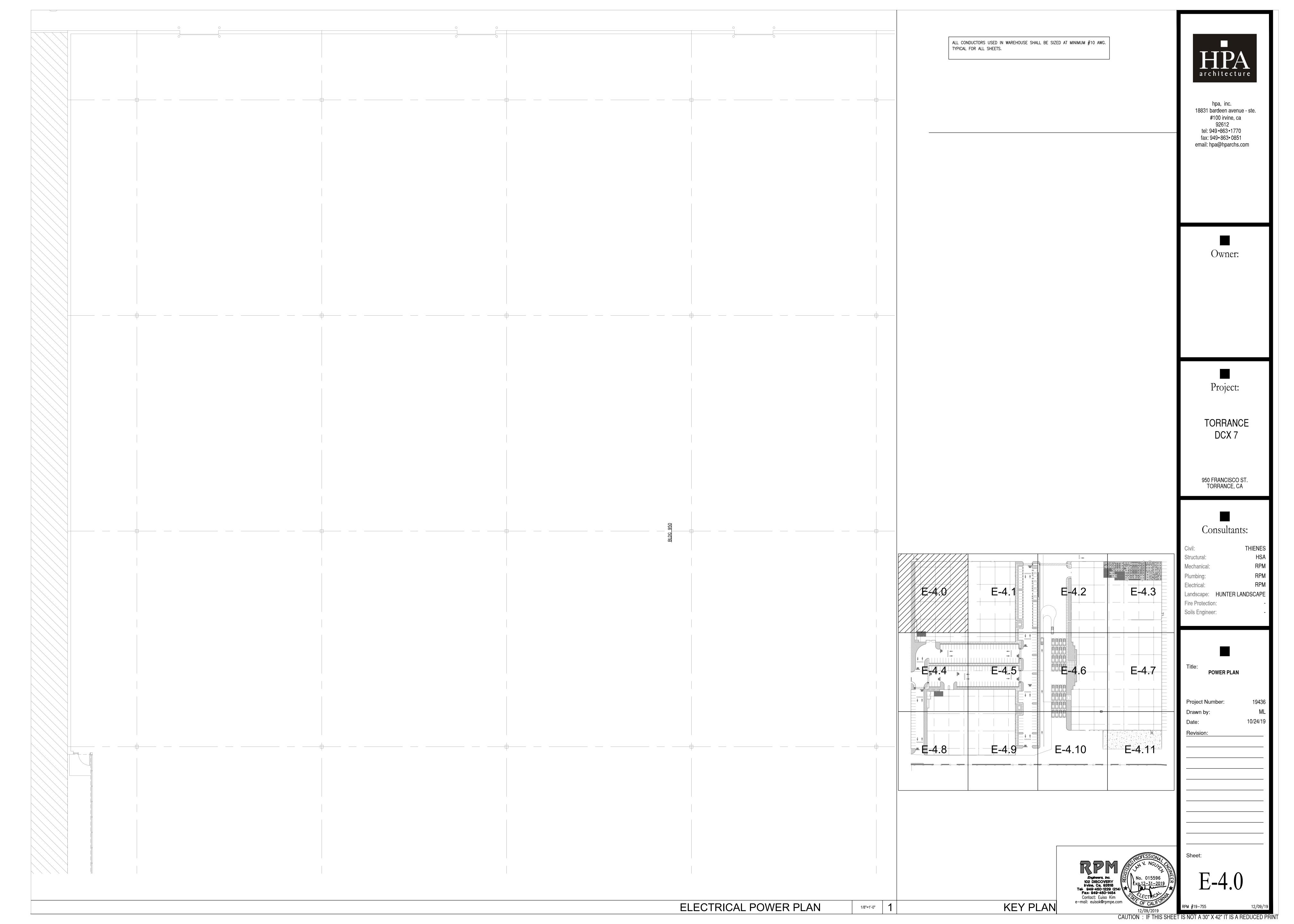


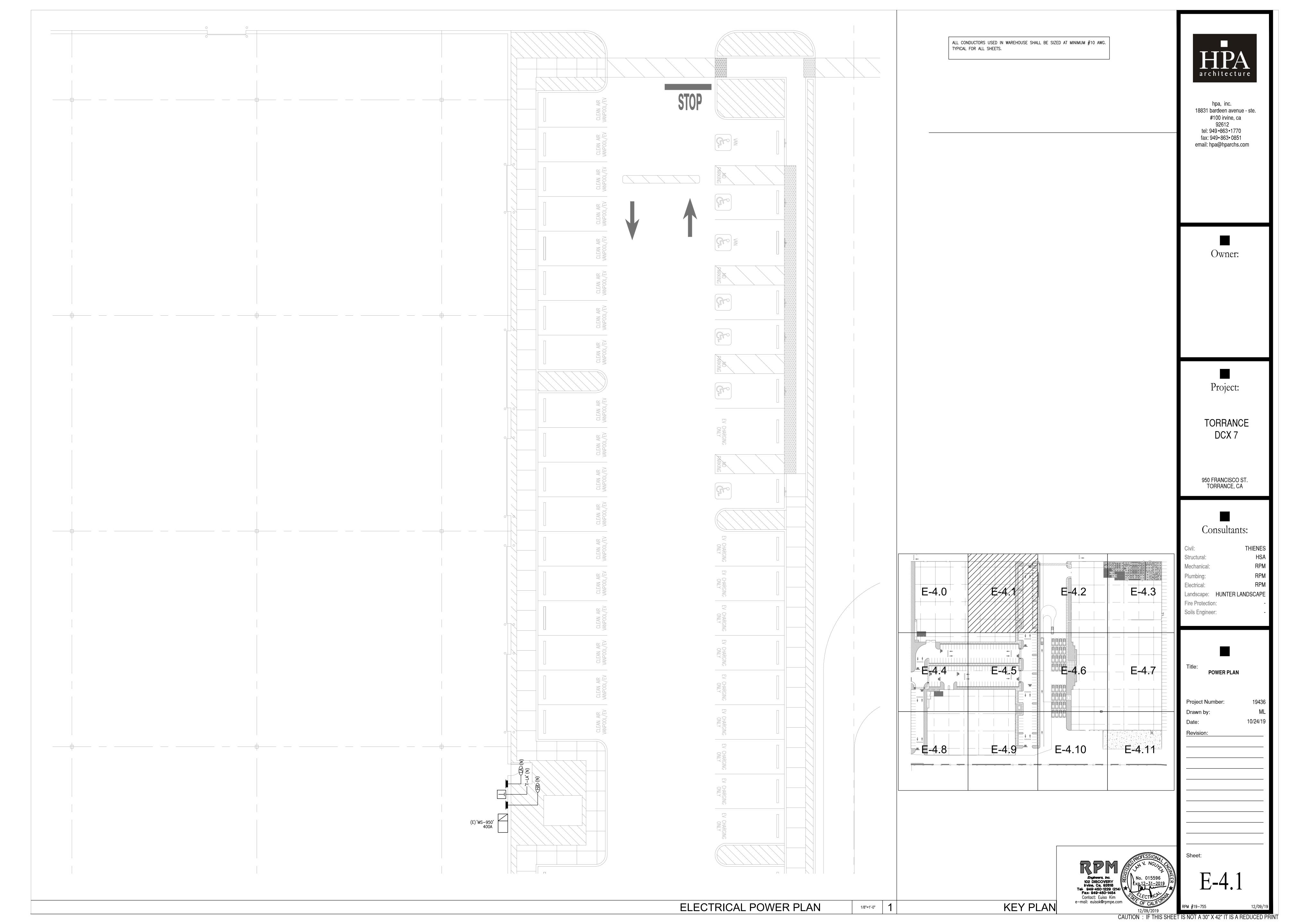


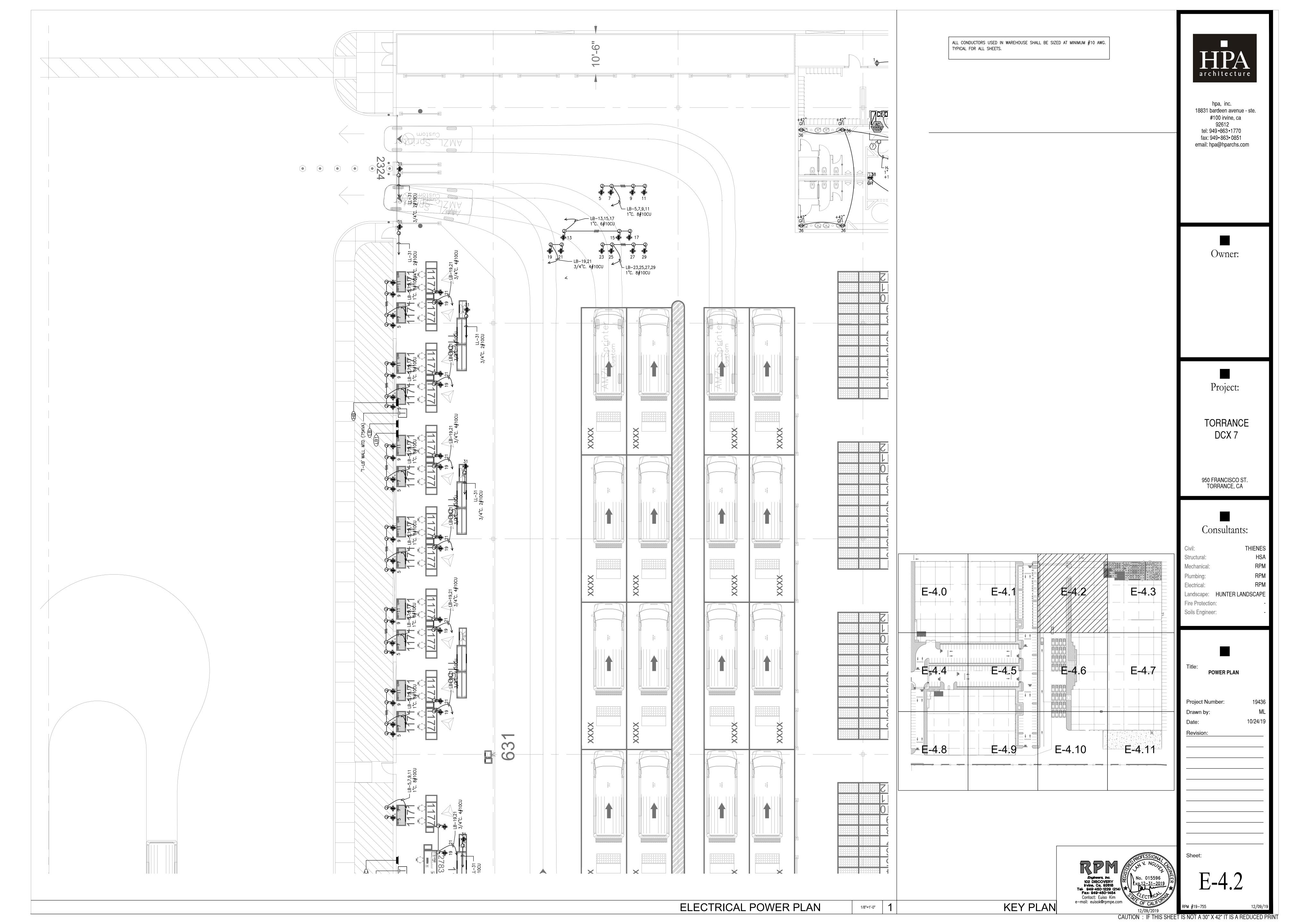


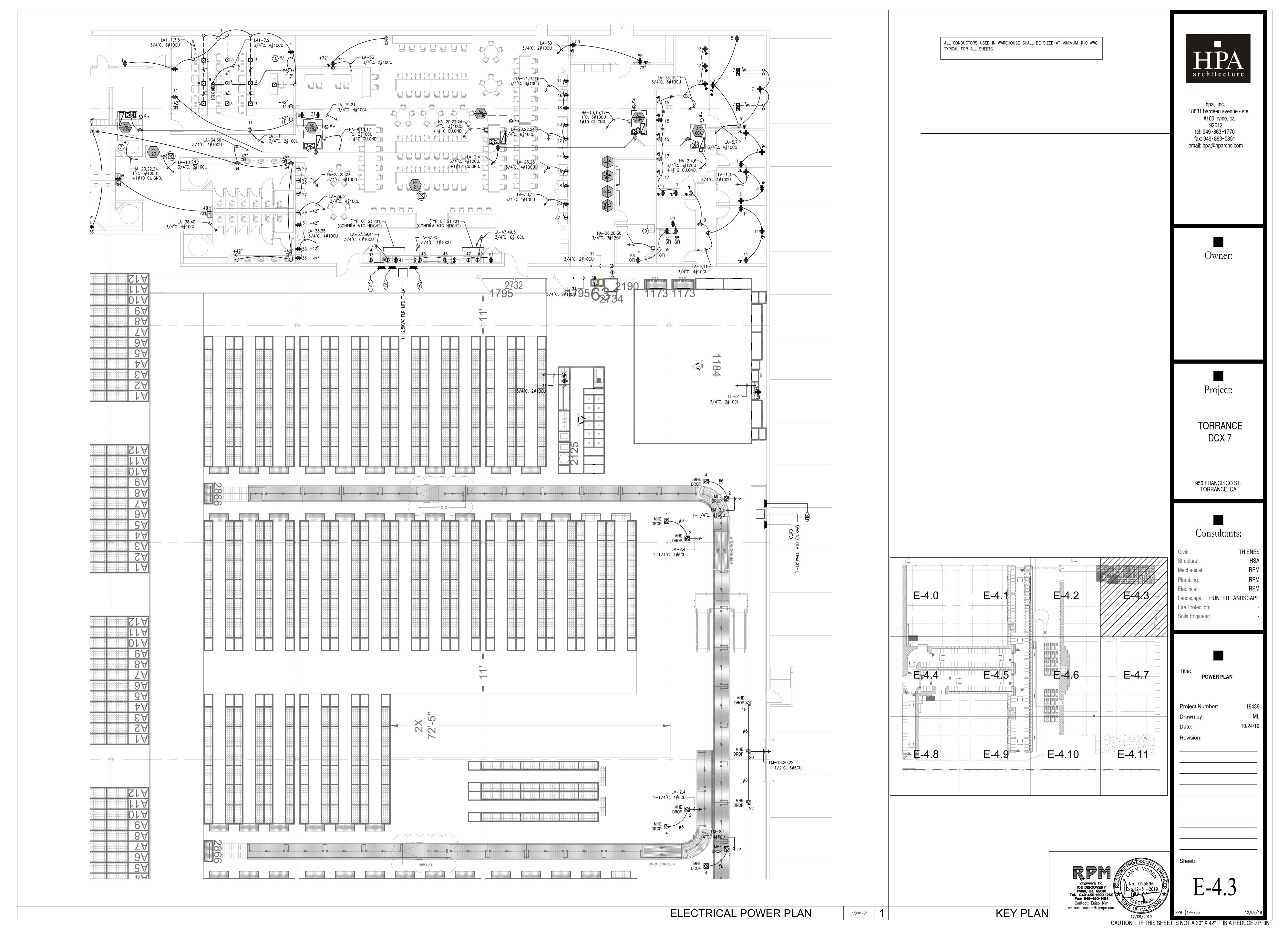


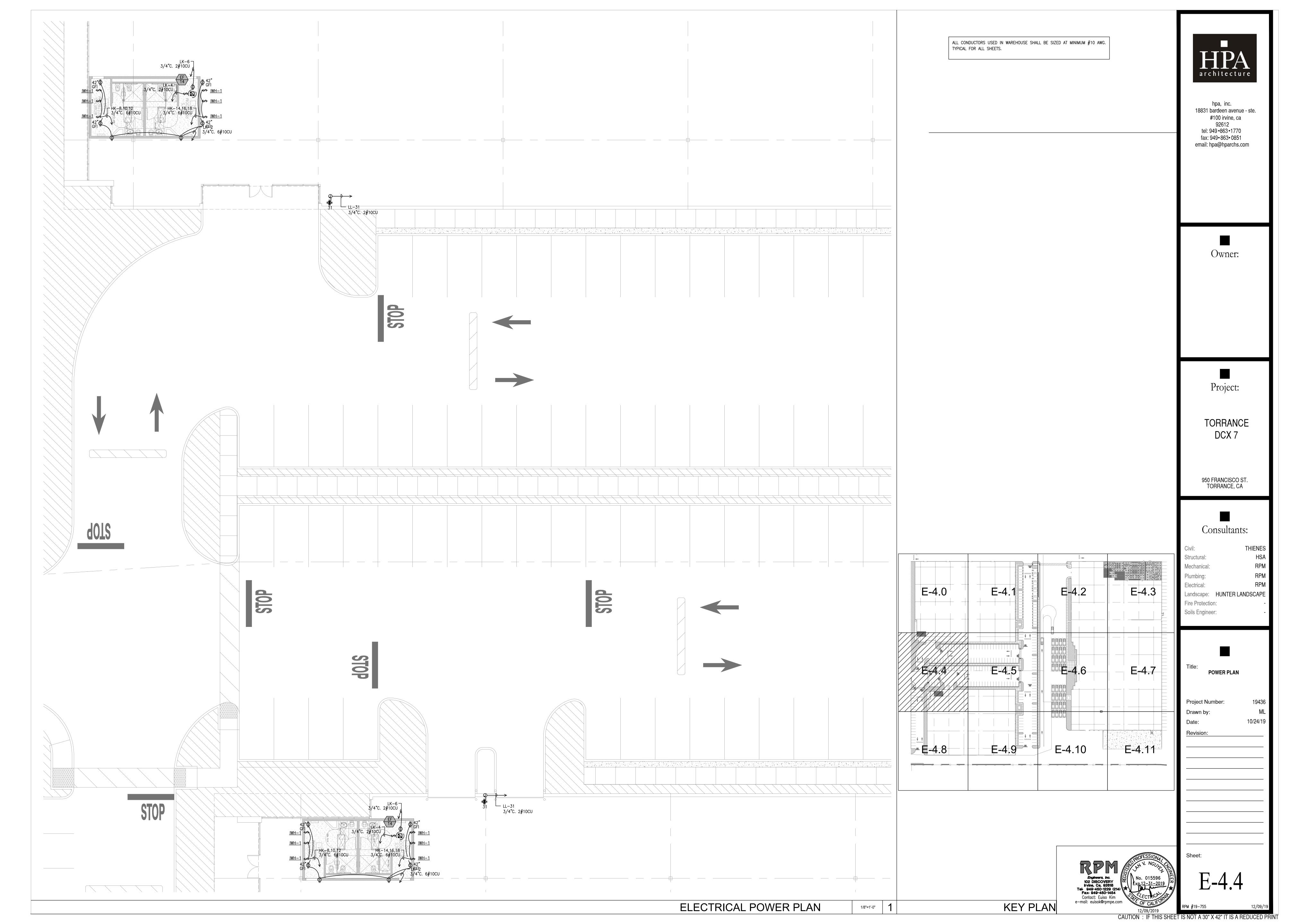


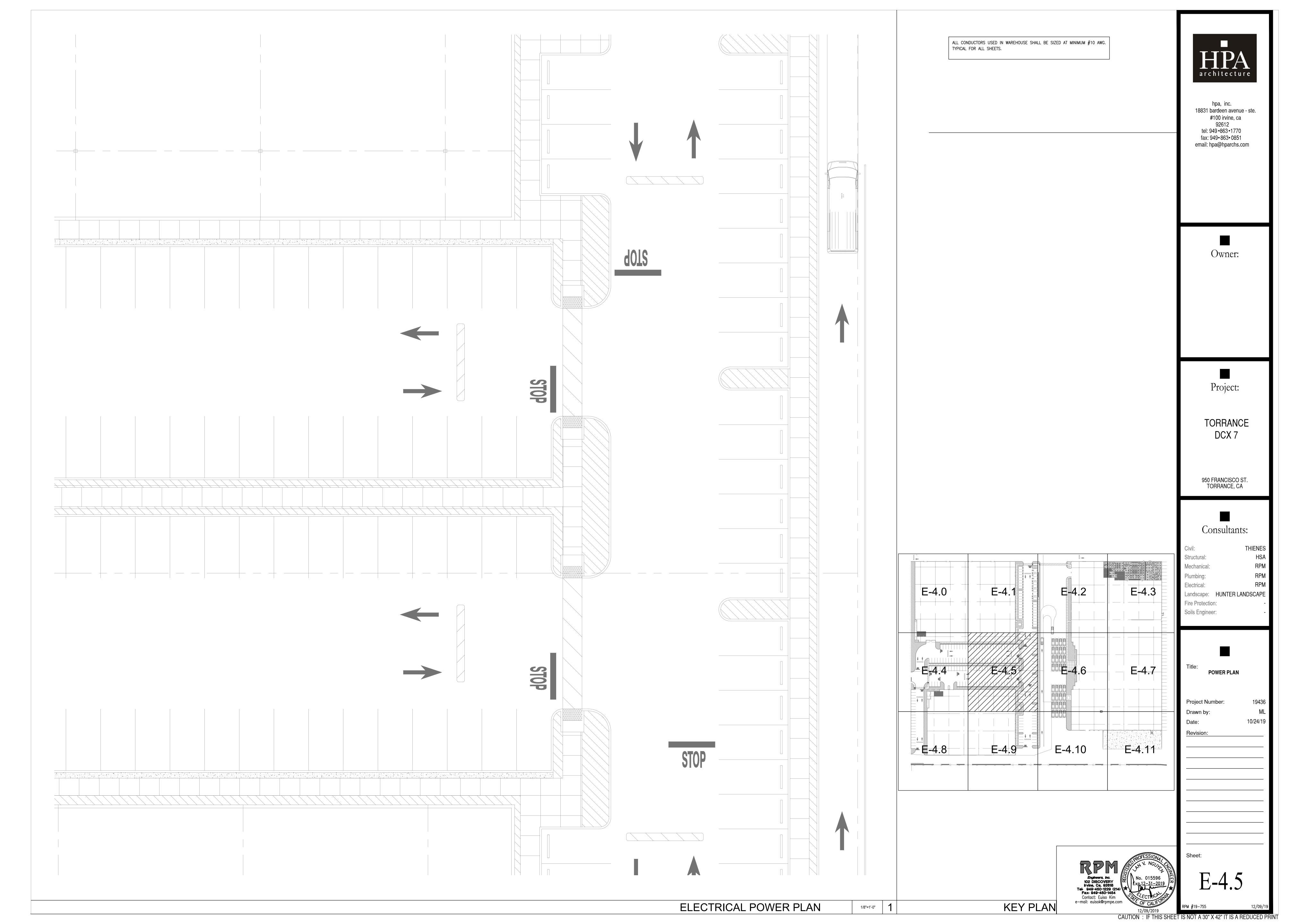


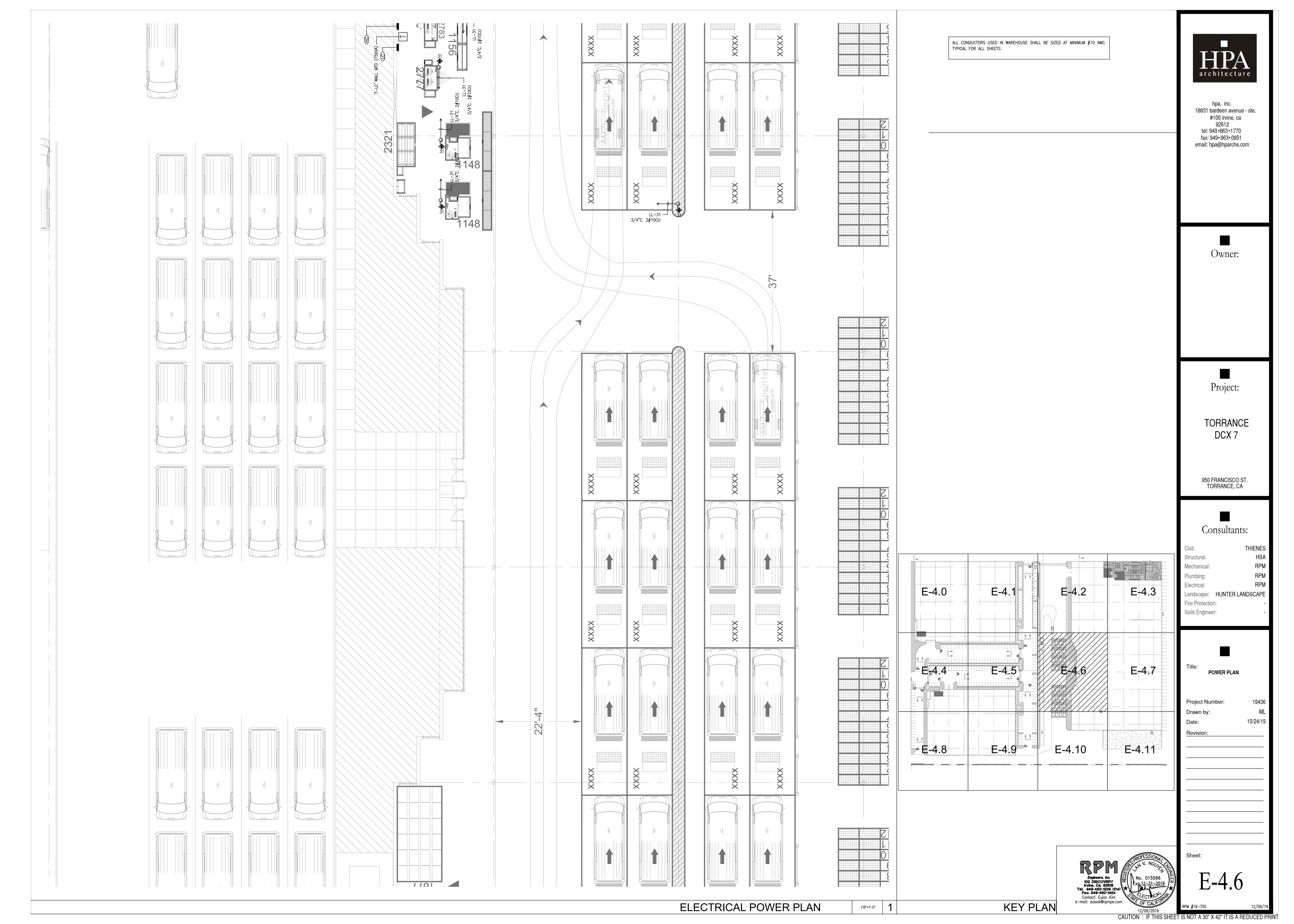


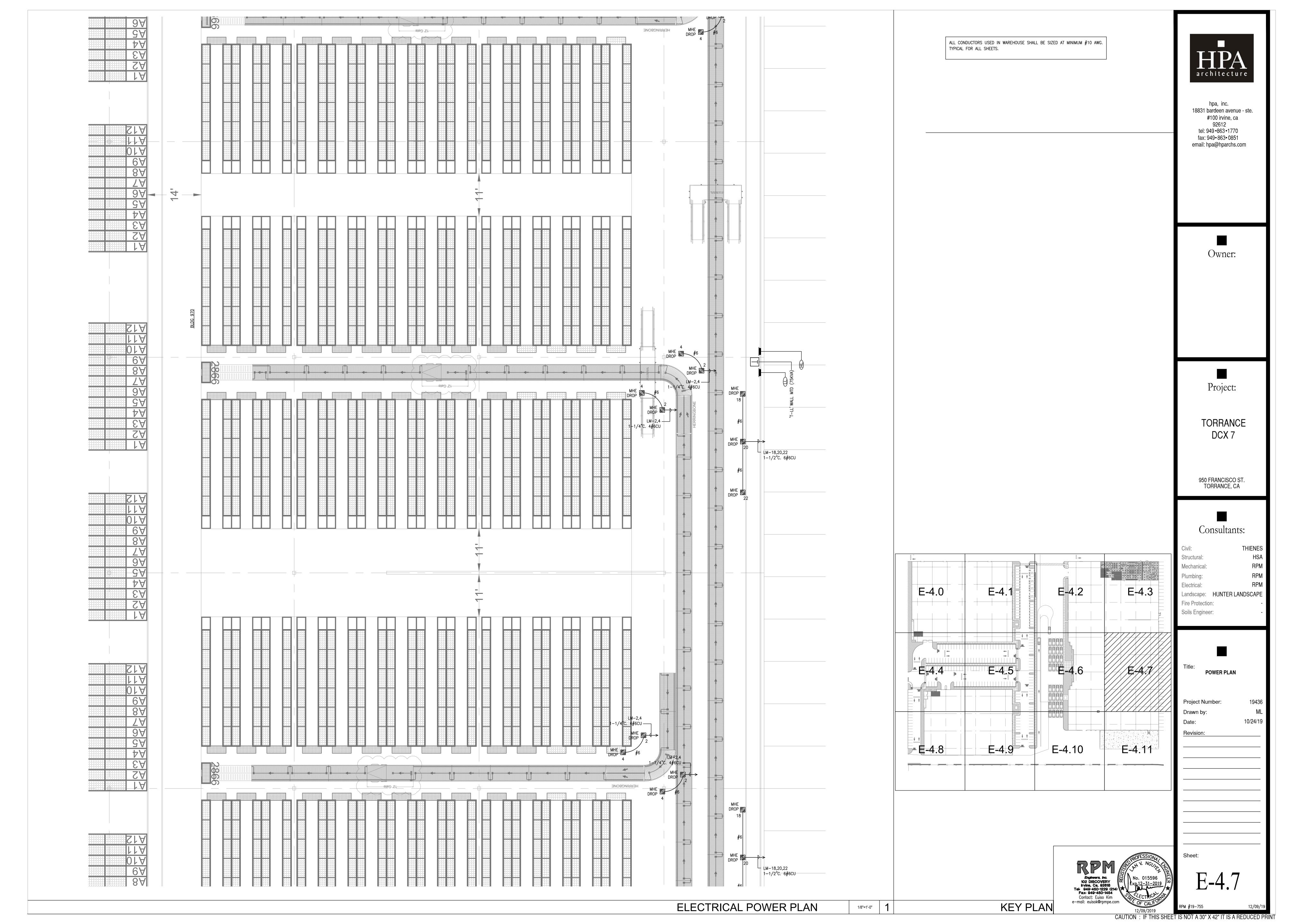


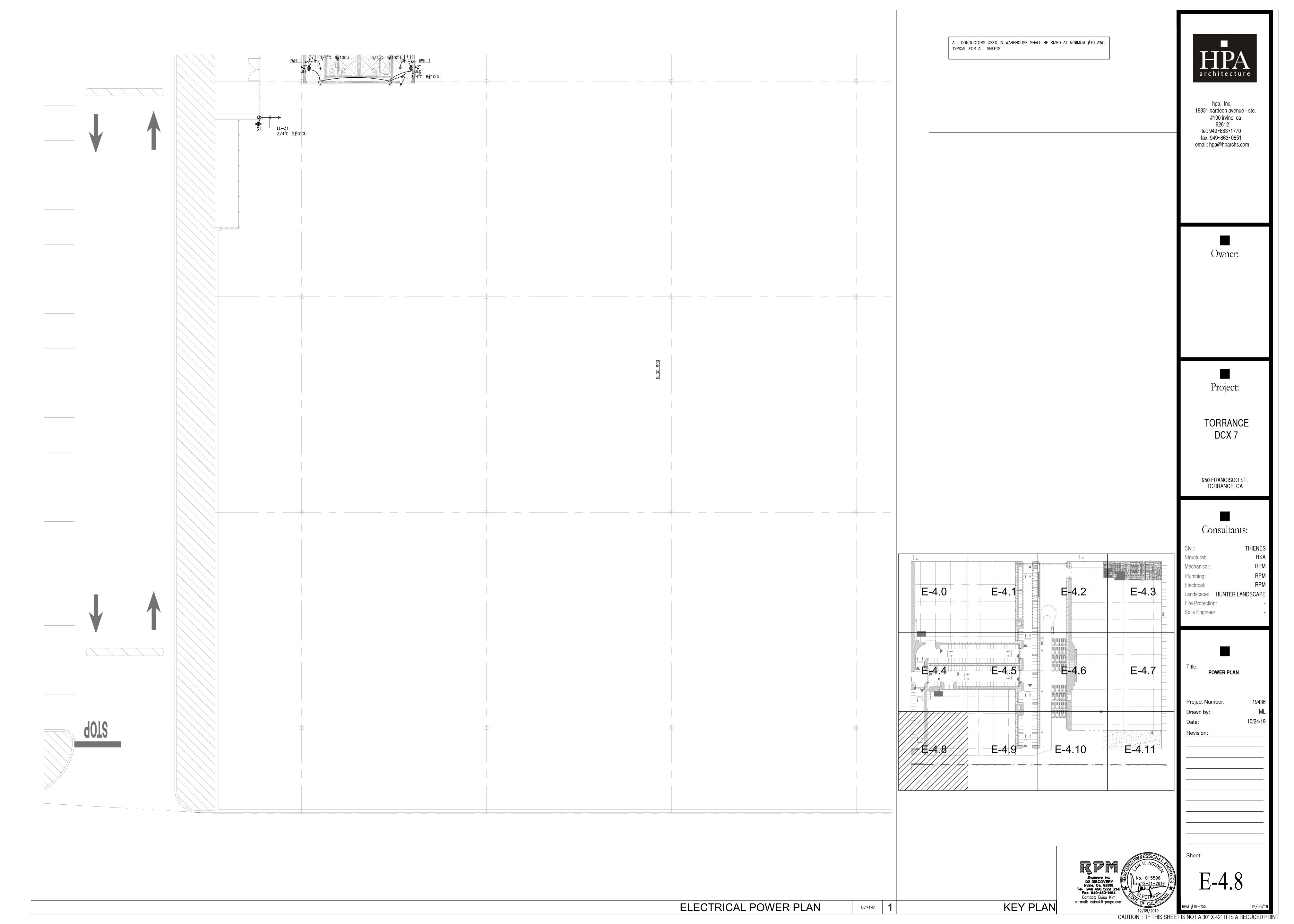


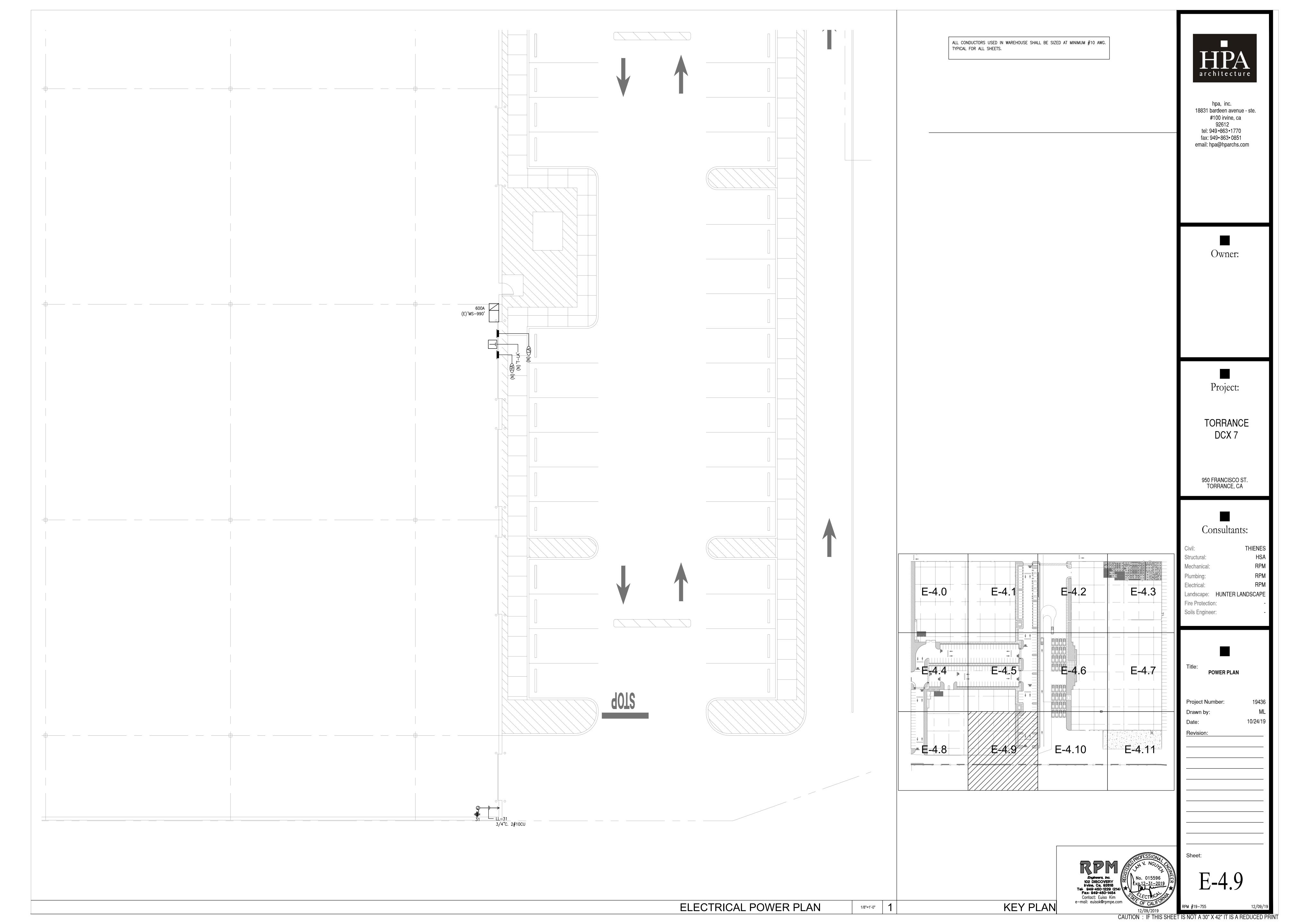


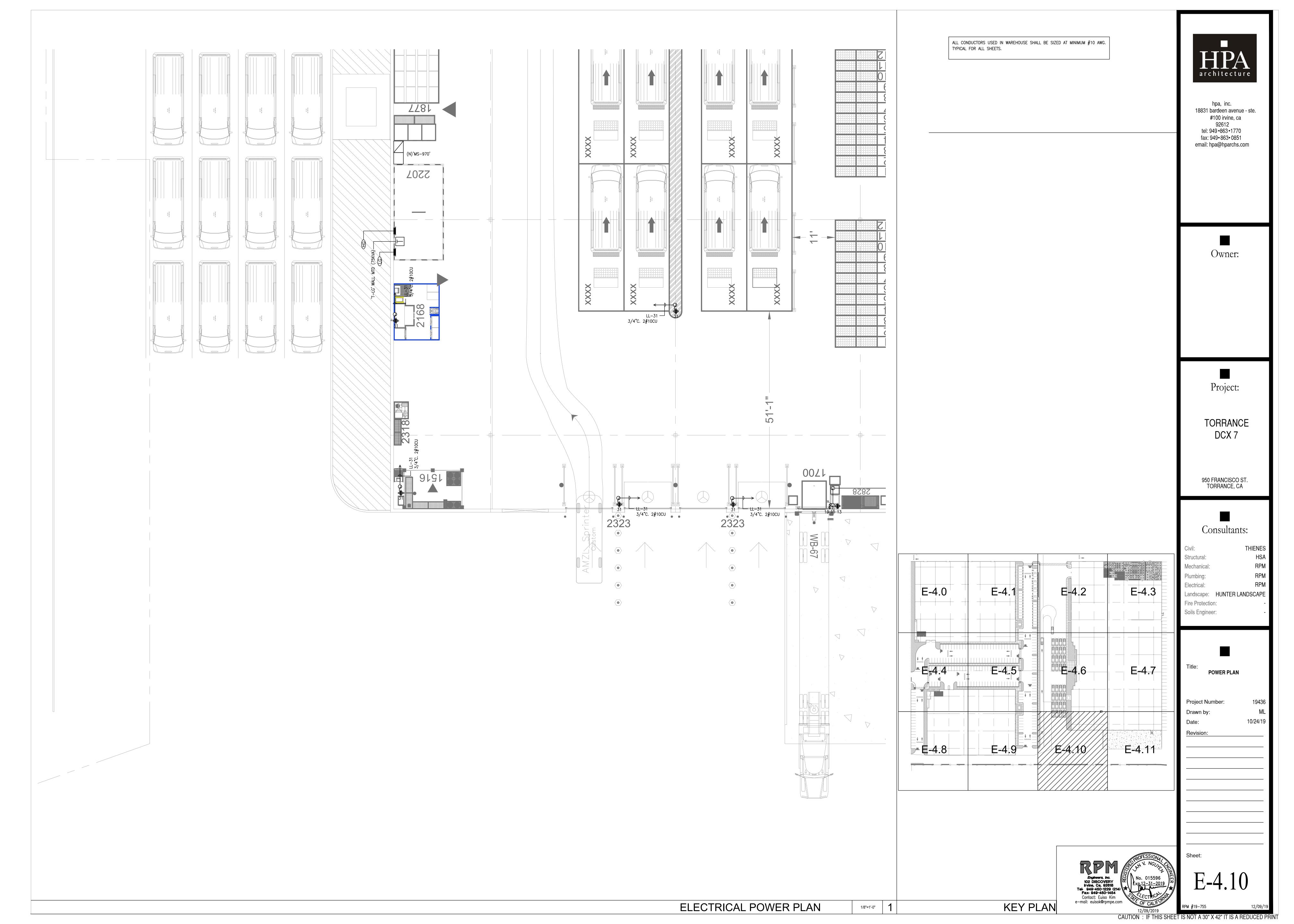


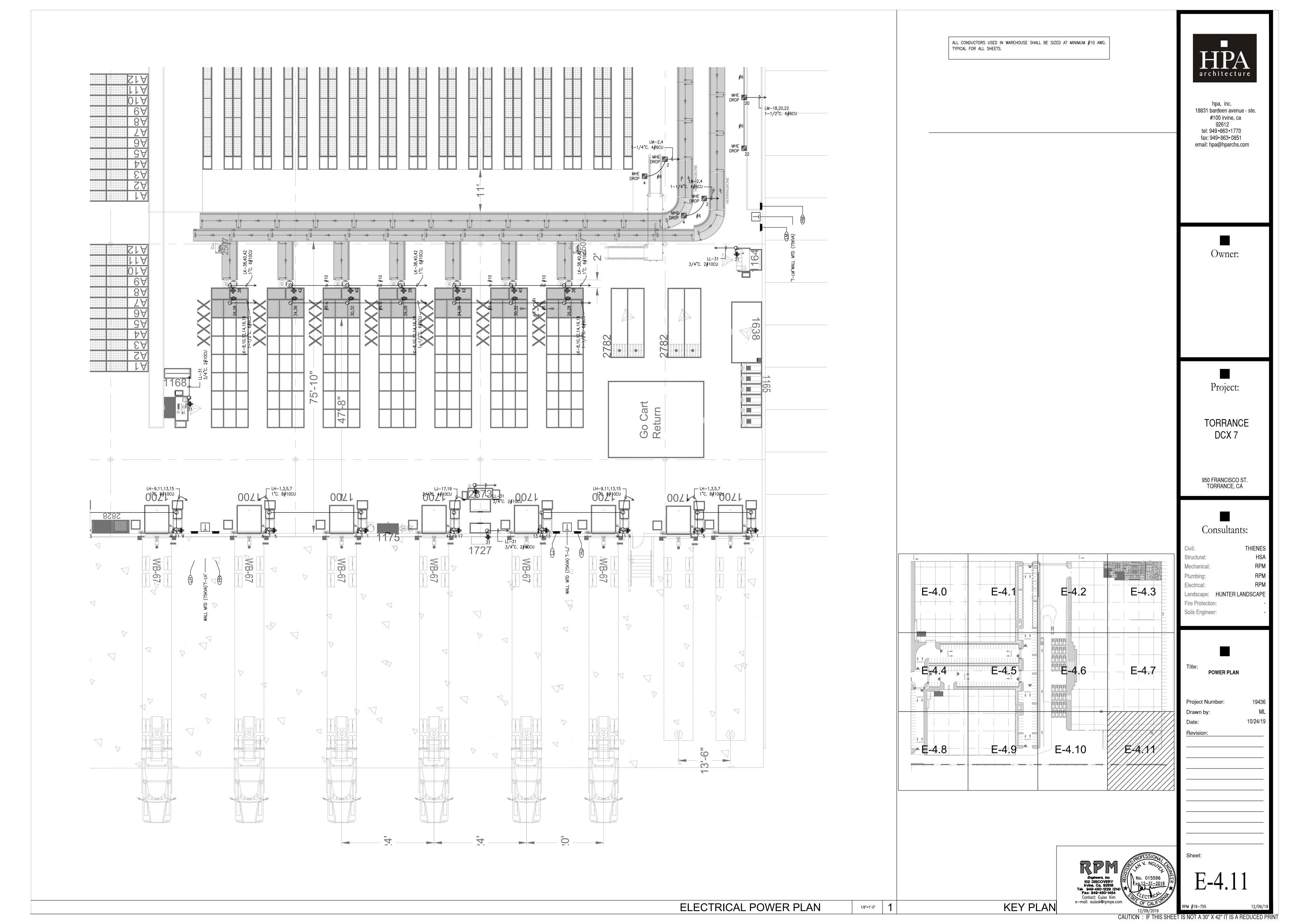


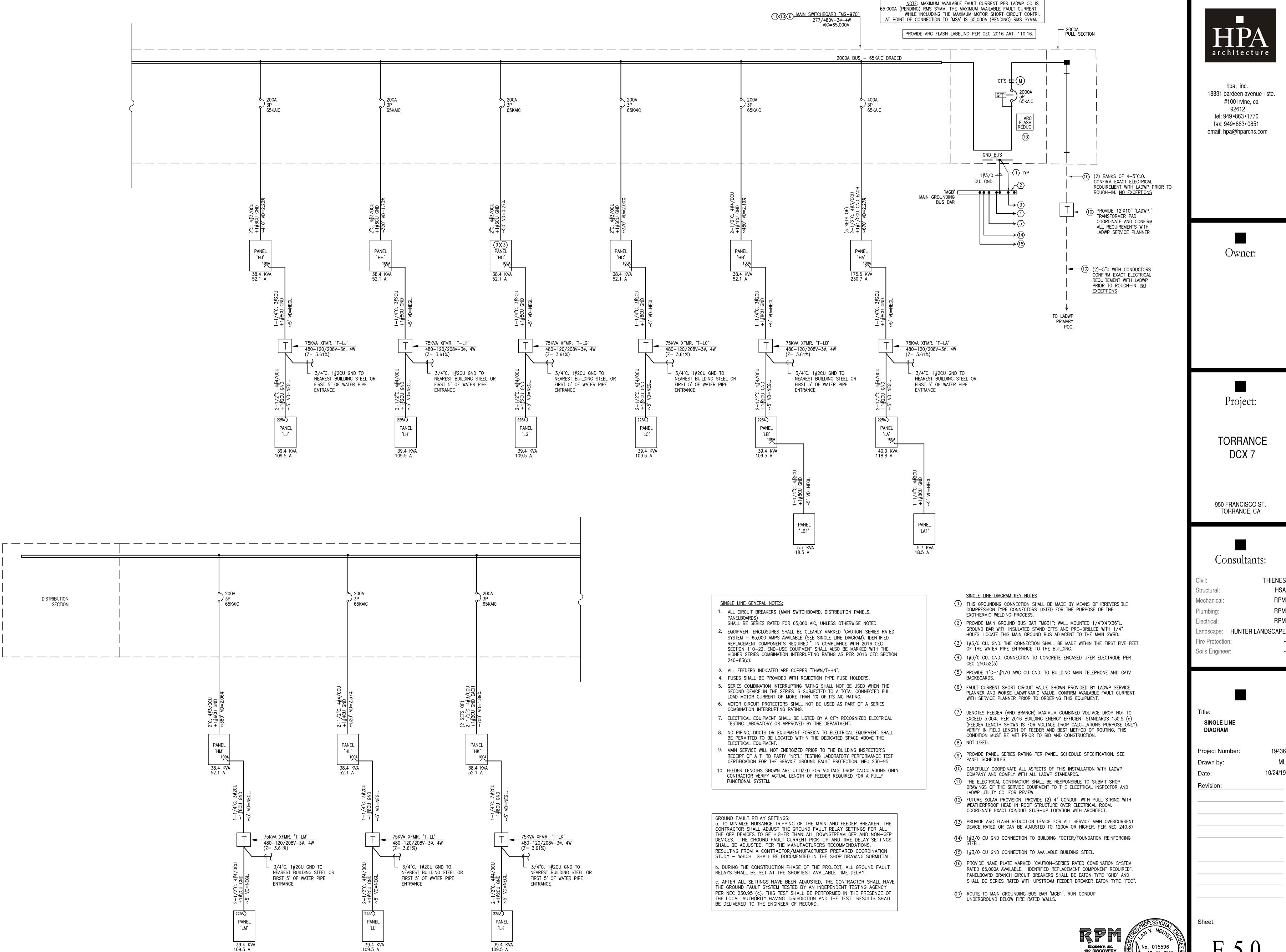












109.5 A

architecture

18831 bardeen avenue - ste.

TORRANCE

950 FRANCISCO ST.

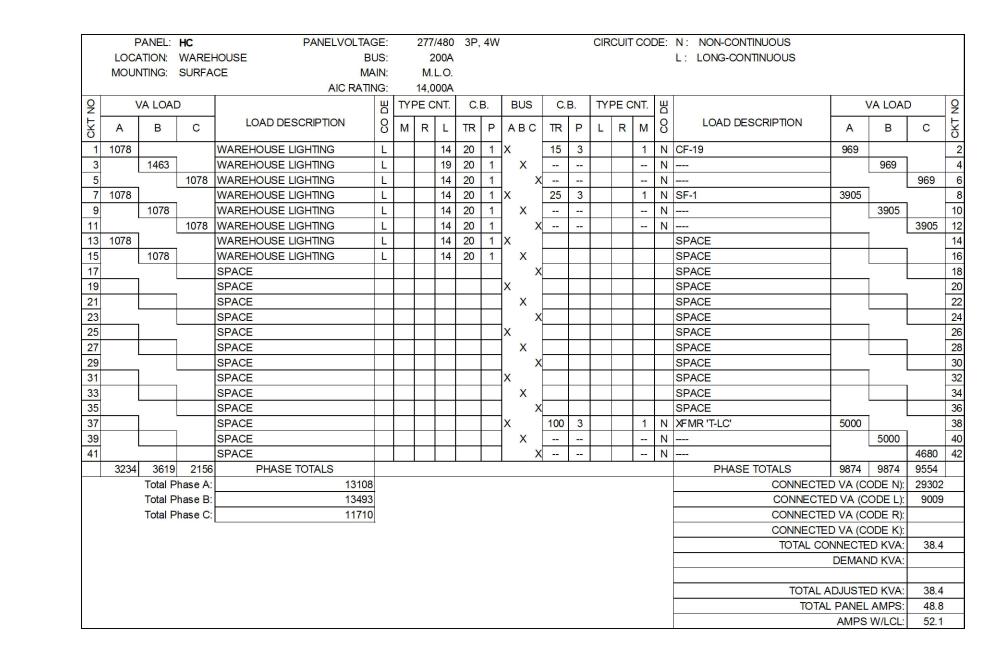
THIENES

E-5.(

Engineers, Inc. 102 DISCOVERY Irvine, Ca. 92618 Tel: 949-450-1229 (214) Fax: 949-450-1454

Contact: Euiso Kim e-mail: euisok@rpmpe.com

12/09/2019



		ANEL:		PANELVOL			120/208	3P,	4W				CIF	RCUIT	COI	DE:	N: NON-CONTINUOUS				
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	MOUN	TING:	SURFA	CE	MAIN:		225A										R: DEMANDABLE RECEPTAC	LES			
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	5000	5000	4680	PHASE TOTALS									•	'			PHASE TOTALS				T
			hase A:		000												CONNECTE	D VA (C	CODE N):	14500	0
		Total F	hase B:	50	000												CONNECTE				
		Total F	hase C:		80												CONNECTE				0
																	CONNECTE	D VA (C	CODE K):		
																	TOTAL CO				7
																		DEMA	ND KVA:		Τ
																					_
																	TOTAL A	ADJUST	ED KVA:	14.	7
																			L AMPS:	 	
																		AMPS	S W/LCL:	40.9	9

	P	ANEL:	HG	PANELVOLTA	GE:		277	480	3P,	4W					CIR	CUIT	COL	DE:	N: NON-CONTINUOUS				
	LOCA	TION:	WAREH	HOUSE E	US:		2	00A											L: LONG-CONTINUOUS				
	MOUN	TING:	SURFA	CE M	AIN:		M.	L.O.															
				AIC RAT	NG:		65,0	00A	SER	ES	RATE	D											
2	V	A LOAD)		DE	TYF	PE C	NT.	C.I	3.	BU	S	C.	В.	TYF	PE CI	NT.	DE		\	/A LOAE)	NO
CKT	Α	В	С	LOAD DESCRIPTION	8	M	R	L	TR	Р	АВ	С	TR	Р	L	R	М	8	LOAD DESCRIPTION	Α	В	С	CKT
1	2437			CF-13,14	N	2			15	3	X		20	1	16			L	WAREHOUSE LIGHTING	1232			2
3		2437			N				-	-	X		20	1	16			L	WAREHOUSE LIGHTING		1232		4
5	-		2437		N				ı	_		X	20	1	16			L	WAREHOUSE LIGHTING		,	1232	6
7	3905			SF-5	N	1			25	3	X	Ī	20	1	16			L	WAREHOUSE LIGHTING	1232			8
9		3905			N	-			_	=	X		20	1	16			L	WAREHOUSE LIGHTING		1232		10
11	-		3905		N	-			1	_		X	20	1	16			L	WAREHOUSE LIGHTING			1232	12
13	726			BLDG LTG	L			5	20	2	X	Ī	20	1	16			L	WAREHOUSE LIGHTING	1232	'		14
15		726			L			_	_	_	X	1	20	1	16			L	WAREHOUSE LIGHTING		1232		16
17	_		570	BLDG LTG	L			4	20	2		X	20	1	16			L	WAREHOUSE LIGHTING			1232	18
19	570	,			L			_	_	_	X	Ì	20	1	16			L	WAREHOUSE LIGHTING	1232	·		20
21		550		MANDOOR LTG	L			22	20	1	Х		20	1	16			L	WAREHOUSE LIGHTING		1232		22
23	L			SITE LTG	L			4	20	2		X	20	1	16			L	WAREHOUSE LIGHTING			1232	24
25					L			_	_	_	X	İ	20	1	16			L	WAREHOUSE LIGHTING	1232			26
27				SPACE							X		20	1	16			L	WAREHOUSE LIGHTING		1232		28
29	L			SPACE								X							SPACE	•			30
31		ı		SPACE							X								SPACE				32
33				SPACE							X	1							SPACE				34
35	L			SPACE							1	X							SPACE	-			36
37		ı		SPACE							X		100	3			1	N	XFMR 'T-LG'	10180			38
39				SPACE	1						X	ı					-	N			8400		40
41				SPACE							1	X						N		•		8000	42
2	7638	7618	6912	PHASE TOTALS		1													PHASE TOTALS	16340	14560	12928	
		Total P	hase A:	23978	3														CONNECTE	D VA (C	ODE N):	45606	j
		Total P		2217	-														CONNECTE	•		20390	
		Total P	hase C:		1														CONNECTE	D VA (C	ODE R):		
																			CONNECTE				_
																			TOTAL CO	,	,	66.0	,
																			, , , , , , ,	DEMAN	ID KVA:		
																			TOTAL A	DJUSTE	D KVA:	66.0	
																				PANEL		86.6	
																			10.772	AMPS		93.4	

	P	ANEL:	LG	PANELVOLTA	GE:		120/	208	3P,	4W					CIR	CUIT	COL	E:	N: NON-CONTINUOUS				_
	LOCA	TION:	WARE	HOUSE B	US:			25A											L: LONG-CONTINUOUS				
	MOUN	TING:	SURFA	ACE MA	AIN:		22	25A											R: DEMANDABLE RECEPTACL	.ES			
				AIC RATII	NG:		10,00	AOC											K: KITCHEN				
9	V	A LOAI)		씸	TYF	PE CI	NT.	C.	В.	BUS	S	C.I	В.	TYF	PE C	NT.				VA LOAI)	2
SKT	Α	В	С	LOAD DESCRIPTION	8	М	R	L	TR	Р	ΑВ	С	TR	Р	L	R	М	8	LOAD DESCRIPTION	Α	В	С	CKT
1	180			ROOFTOP REC	R		1		20	1	X		30	1		1		Ν	MHE CONVEYER DROP REC	2000			
3		400		YARD MARSHALL LTG & REC	N		2	1	20	1	X		30	1		1		Ν	MHE CONVEYER DROP REC		2000		
5	_			SPACE								X	30	1		1		Ν	MHE CONVEYER DROP REC			2000	1
7				SPACE							X		30	1		1		N	MHE CONVEYER DROP REC	2000]		
9]	SPACE							X		30	1		1		Ν	MHE CONVEYER DROP REC		2000		1
11				SPACE							1	X	30	1		1		Ν	MHE CONVEYER DROP REC			2000	1
13				SPACE							X		30	1		1		Ν	MHE CONVEYER DROP REC	2000]		1
15]	SPACE							X		30	1		1		N	MHE CONVEYER DROP REC		2000]	1
17	_			SPACE							Ī	X	30	1		1		N	MHE CONVEYER DROP REC	1		2000	1
19				SPACE							X		30	1		1		Ν	MHE CONVEYER DROP REC	2000]		2
21				SPACE							X		30	1		1		Ν	MHE CONVEYER DROP REC		2000		2
23	_			SPACE]	X	30	1		1		N	MHE CONVEYER DROP REC			2000	2
25				SPACE							X		30	1		1		Ν	MHE CONVEYER DROP REC	2000]		2
27]	SPACE							X								SPACE			1	2
29				SPACE]	X							SPACE	1			3
31				SPACE							X								SPACE]		3
33]	SPACE							X								SPACE			1	3
35	_			SPACE							[X							SPACE				3
37				SPACE							X								SPACE]		3
39]	SPACE							X								SPACE]	4
41	_			SPACE								X							SPACE	1			4
	180	400		PHASE TOTALS															PHASE TOTALS	10000	8000	8000	
	•	Total P	hase A:	10180)														CONNECTE	D VA (C	ODE N):	26400	1
		Total P	hase B:	8400)														CONNECTE	D VA (C	ODE L):		
		Total P	hase C:	8000)														CONNECTE	D VA (C	ODE R):	180	
					-														CONNECTE	D VA (C	ODE K):		
																			TOTAL CO	NNECTE	D KVA:	26.6	
																				DEMAN	ID KVA:		
																			TOTAL A	DJUSTE	D KVA:	26.6	
																			TOTAL	PANEL	AMPS:	84.9	
																				AMPS	W/LCL:	84.9	

		PANEL:		PANELVO			27		3P,	4W					CIR	CUIT	COL		N: NON-CONTINUOUS				
			WARE		BUS			200A											L: LONG-CONTINUOUS				
	MOUN	NTING:	SURFA		MAII			l.L.O.															
7000				AIC	RATING			000A							1					1			1001
9	\	/A LOAI	D			<u> </u>	YPE	CNT.	C.	В.	В	US	C.	B.	TY	PE C	NT.	DE			VA LOA)	2
CKT	Α	В	С	LOAD DESCRIPTION		3 \	1 R	L	TR	Р	Α	ВС	TR	Р	L	R	М	8	LOAD DESCRIPTION	Α	В	С	CKT
1	1078			WAREHOUSE LIGHTING		L,		14	20	1	X		15	3			1	N	CF-1,20	3102			2
3		1463		WAREHOUSE LIGHTING		L		19	20	1		X						N			3102		4
5			1078	WAREHOUSE LIGHTING		L		14	20	1		X						N				3102	6
7	1078			WAREHOUSE LIGHTING		L		14	20	1	X		25	3			1	N	SF-2	3905]		8
9		1078]	WAREHOUSE LIGHTING		L		14	20	1		X						N			3905]	10
11	,		1078	WAREHOUSE LIGHTING		L,		14	20	1		X						N		1		3905	12
13	1078			WAREHOUSE LIGHTING		L,		14	20	1	X								SPACE		1	,	14
15		1078]	WAREHOUSE LIGHTING		L.		14	20	1		X							SPACE				16
17				SPACE								X	$\overline{}$						SPACE				18
19				SPACE							X								SPACE			'	20
21			1	SPACE								X							SPACE			1	22
23				SPACE								X							SPACE	1			24
25				SPACE							X								SPACE		1 '		22 24 26
27			1	SPACE							1	X							SPACE			1	28
29				SPACE								X	\Box						SPACE	1			30
31				SPACE							X								SPACE] '		32
33			7	SPACE								X							SPACE			1	34
35				SPACE								X							SPACE		-		36
37				SPACE							X		100	3			1	N	XFMR 'T-LB'	8500	1 '		38
39]	SPACE								X	-					N			8500]	40
41				SPACE							Ī	X						N		1		8000	42
	3234	3619	2156	PHASE TOTALS		•	•												PHASE TOTALS	15507	15507	15007	
		Total F	hase A:	1	8741														CONNECTE	D VA (C	ODE N):	46021	
		Total F	hase B:	1	9126														CONNECTE	DVA (C	ODE L):	9009	
		Total F	Phase C:	1	7163														CONNECTE	D VA (C	ODE R):		
																			CONNECTE	D VA (C	ODE K):		
																			TOTAL CO	NNECTE	ED KVA:	55.1	
																				DEMAN	ND KVA:		
																			TOTAL A	DJUSTE	ED KVA:	55.1	
																			TOTAL	PANEL	AMPS:	69.1	
																				AMPS	W/LCL:	72.4	

	P.	ANEL:	LB	PANELVOLT	AGE:		120/208	3P,	4W					CIR	CUIT	COL	E:	N: NON-CONTINUOUS				
	LOCA	TION:	WARE	HOUSE	BUS:		225A											L: LONG-CONTINUOUS				
	MOUN	TING:	SURFA	7.	MAIN:		225A											R: DEMANDABLE RECEPTACI	LES			
				AIC RA	-		10,000A										_	K: KITCHEN	1			_
9	V	A LOA)		出	TYF	PE CNT.	C.I	В.	BU	JS	C.I	3.	TYF	PE CI	NT.	DE		`	VA LOAD)	2
CKT	Α	В	С	LOAD DESCRIPTION	8	M	R L	TR	Р	AE	3 C	TR	Р	L	R	М	00	LOAD DESCRIPTION	Α	В	С	17.0
1	500			DEVICE CHARGING QUAD	N		2	20	1	X								SPACE				L
3		500		DEVICE CHARGING QUAD	N		2	20	1	>	X							SPACE				L
5			500	DEVICE CHARGING QUAD	N		2	20	1	↓	X							SPACE		,		L
7	500		,	DEVICE CHARGING QUAD	N		2	20	1	-								SPACE			ı	L
9	L	500		DEVICE CHARGING QUAD	N		2	20	1	>	X							SPACE				1
11			500	DEVICE CHARGING QUAD	N		2	20	1		X							SPACE		,		1
13	500		1	DEVICE CHARGING QUAD	N		2	20	1	X								SPACE			1	_1
15	L	500		DEVICE CHARGING QUAD	N		2	20	1	>	X							SPACE				1
17			500	DEVICE CHARGING QUAD	N		2	20	1		X							SPACE		,		1
19	500		1	DEVICE CHARGING QUAD	N		2	20	1	X								SPACE			1	2
21	L	500		DEVICE CHARGING QUAD	N		2	20	1	>	X				\rightarrow			SPACE				2
23			500	DEVICE CHARGING QUAD	N		2	20	1		X							SPACE		, ,		2
25	500		,	DEVICE CHARGING QUAD	N		2	20	1	-								SPACE			ı	2
27	L	500		DEVICE CHARGING QUAD	N		2	20	1	>	X							SPACE				2
29			500	DEVICE CHARGING QUAD	N		2	20	1	↓	X							SPACE		,		3
31	500		,	DEVICE CHARGING QUAD	N		2	20	1	X								SPACE				3
33	L	500		DEVICE CHARGING QUAD	N		2	20	1	>	X						_	SPACE	_			3
35			500	DEVICE CHARGING QUAD	N		2	20	1	_	X							SPACE		,		3
37	500			DEVICE CHARGING QUAD	N		2	20	1	X								SPACE				3
39	L	500		DEVICE CHARGING QUAD	N		2	20	1	>	X							SPACE				4
41			500	DEVICE CHARGING QUAD	N		2	20	1	_	X							SPACE		,]		4
43	500			DEVICE CHARGING QUAD	N		2	20	1	X								SPACE				4
45	L	500		DEVICE CHARGING QUAD	N		2	20	1	>	X							SPACE	_			4
47			500	DEVICE CHARGING QUAD	N		2	20	1		X							SPACE		,		4
49	500			DEVICE CHARGING QUAD	N		2	20	1	X								SPACE				5
51	L	500		DEVICE CHARGING QUAD	N		2	20	1	>	X							SPACE				5
53			500	DEVICE CHARGING QUAD	N		2	20	1		X				\rightarrow			SPACE		,		Ę
55	500		,	DEVICE CHARGING QUAD	N		2	20	1	X		100	3		\Box	1	111	PANEL 'LB1'	3500		1	5
57	L	500		DEVICE CHARGING QUAD	N		2	20	1	>	X						N			3500		5
59				SPACE							X						N				3500	6
	5000	5000	4500	PHASE TOTALS														PHASE TOTALS	*	3500	3500	L
			hase A:	850	_													CONNECTE			25000	
			hase B:	850	_													CONNECTE				
		Total P	hase C:	800	00													CONNECTE				
																		CONNECTE	,	,		
																		TOTAL CO			25.0	_
																			DEMAN	ID KVA:		_
																		TOTAL A	DJUSTF	D KVA	25.0	_
																			PANEL		69.5	
																		10174		W/LCL:	69.5	

	F	ANEL:	LB1	PANELVO	LTAG	E:	1	120/208	3P	, 4W					CIR	CUIT CO	DE:	N: NON-CONTINUOUS				
	LOCA	TION:	WARE	HOUSE	BU	S:		100A										L: LONG-CONTINUOUS				
	MOUN	ITING:	SURFA	CE	MAI	N:		M.L.O										R: DEMANDABLE RECEPTAC	LES			
				AIC I	RATING	3 :	1	0,000A										K: KITCHEN				
2	\	/A LOA	D			씸	ΙΥΡΙ	E CNT.	С	.B.	BU	JS	C.	B.	TYI	PE CNT.			,	VA LOAI)	2
3	Α	В	С	LOAD DESCRIPTION		8 T	M	R L	TR	Р	АВ	3 C	TR	Р	L	R M	8	LOAD DESCRIPTION	Α	В	С	ţ
1				SPACE							X		20	1		2	N	DEVICE CHARGING QUAD	500			T
3			1	SPACE							×	(20	1		2	N	DEVICE CHARGING QUAD		500	1	
5	'			SPACE		1					1	X	10000000	1		2	_	DEVICE CHARGING QUAD	1		500	
7				SPACE							X		20	1		2	N	DEVICE CHARGING QUAD	500	1		T
9			T	SPACE							X	(20	1		2	N	DEVICE CHARGING QUAD		500	1	,
11	ı	I		SPACE		\top			1		1	X	20	1		2		DEVICE CHARGING QUAD	1		500	•
13				SPACE		\top	\neg		1	T	X	10	20	1		2	-	DEVICE CHARGING QUAD	500]		1
15			1	SPACE							1 ×	(20	1		2	N	DEVICE CHARGING QUAD	70.00.00	500	1	1
17	,			SPACE								X	20	1		2	N	DEVICE CHARGING QUAD	1		500	,
19				SPACE							X		20	1		2	N	DEVICE CHARGING QUAD	500	1	<u> </u>	2
21			1	SPACE		1					1 ×	(20	1		2	Ν	DEVICE CHARGING QUAD		500	1	2
23	'			SPACE		_					1	X	20	1		2	Ν	DEVICE CHARGING QUAD	1		500	2
25				SPACE							X		20	1		2	N	DEVICE CHARGING QUAD	500]		2
27			1	SPACE							×	<	20	1		2	_	WH QUAD		500]	2
29				SPACE		1					1	X	20	1		2	N	WH QUAD	1		500	3
31				SPACE							X		20	1		2	N	WH QUAD	500]		3
33			1	SPACE							×	<	20	1		2	N	WH QUAD		500]	3
35				SPACE								X	20	1		2	N	WH QUAD	1		500	3
37				SPACE							X		20	1		2	N	WH QUAD	500]		3
39]	SPACE							×	(20	1		2	N	WH QUAD		500	1	4
11				SPACE							1	X	20	1		2	N	WH QUAD	1		500	4
				PHASE TOTALS												·		PHASE TOTALS	3500	3500	3500	Т
		Total F	hase A:		3500													CONNECTE	DVA (C	ODE N):	10500)
		Total F	hase B:		3500													CONNECTE	D VA (C	ODE L):		
		Total F	Phase C:		3500													CONNECTE	DVA (C	ODE R):		
																		CONNECTE	DVA (C	ODE K):		
																		TOTAL CO	NNECTE	D KVA:	10.5	<u> </u>
																			DEMAN	ID KVA:		
																		TOTAL	ADJUSTE	D KVA:	10.5	
																			L PANEL		29.2	
																		1017		W/LCL:	29.2	_

	-			PANELVO			277/4		3P, 4	4W				CI	RCU	IIT C	ODE	N: NON-CONTINUOUS				
				HOUSE NEAR OFFICE	BUS:		400											L: LONG-CONTINUOUS				
	MOUN	NTING:	SURFA		MAIN:		M.L.															
οΙ	١	/A LOA	D	AIC F	ATING: 出	TV	14,000 PE CN		C.B		BUS		C.B.	T	YPE	CN	г. <u></u>	1	1	VA LOA	n	_
<u>2</u>				LOAD DESCRIPTION	8		т т							+								-
S	Α	В	С			M			TR		AB		R P		. R	K N	_		A	В	С	_
1	1242		7	OPNE OFFI/BRK RM LTG	L	3		_			X	2	0 3				_	'AC-60A'	3601		1	
3		1494	1	BRK RM LTG	L	3	-			1	X	_				-		l	_	3601		_
5		1	1770	TRAIN/RR LTG	L	5		56	20	1		X	_	-		_	_	l		,	3601	_
7			7	SPACE				_	_		X	3	0 3	li.			1 N	'AC-120A'	7202	_	1	
9				SPACE							X	_				-	- N		4	7202		_
11		i		SPACE								X -	-			,	- N	I		7	7202	
13	2770		-	'AC-36A'	N	1			15	3	X	3	0 3	l l		,	_	'AC-120B'	7202		т.	
15		2770			N						X	<u> </u>	-				- N	l	_	7202		_
17			2770		N							X -	-				- N	l		7	7202	_
19	1385		-	AC-120A PWR EXH	N	1			15	3	X	3	3 3	h			1 N	'AC-102A'	6094		1	
21		1385			N	1022					X	_				-	- N	l		6094		
23			1385		N	1122						X				1.	- N	[_	6094	
25	858		_	AC-102A PWR EXH	N	1			15	3	X	1:	5 3				1 N	'WH-1'	2000			
27		858			N						X	_	-			-	- N	 	_	2000		
29			858		N							X -				-	- N				2000	
31			_	SPACE							X							SPACE				
33				SPACE							X							SPACE				
35	•			SPACE								X						SPACE	1			
37				SPACE							X							SPACE		1		
39				SPACE							X							SPACE]	
41	•			SPACE								X						SPACE	Ī			
43				SPACE							X							SPACE		1		_
45			1	SPACE							X							SPACE]	
47				SPACE								X						SPACE	7			
49				SPACE							X							SPACE		1		
51			1	SPACE							X		\top				\top	SPACE	1	1	[
53				SPACE								X	\top				\top	SPACE				_
55				SPACE							X		0 3	in the second		-	1 N	XFMR 'T-LA'	14299	1		-
57			1	SPACE							Х	_		+-		-	- N			16003]	
59				SPACE								x -					- N		7		13900)
	6255	6507	6783														-	PHASE TOTALS		42102	39999)
		Total F	hase A:	46	653													CONNECTE	D VA (C	ODE N):	137538	8
			Phase B:		3609													CONNECT				
		Total F	Phase C:	46	782													CONNECTE	ED VA (C	ODE R):		•
																		CONNECTE				•
																		TOTAL CO				1
																				ND KVA:		_
																		TC- ::	A D II 10=	-D 10.11	4.5	
																			ADJUSTI			-
																		TOTA	L PANEI		171.3	
																			AMPS	W/LCL:	172.9	٤

		ANEL:		PANELVOLTAG			120/208	3P,	4W					CIR	CUIT	COL	DE:	N: NON-CONTINUOUS				
					US:		225A											L: LONG-CONTINUOUS				
	MOUN	TING:	SURFA	CE MA	NN:		225A											R: DEMANDABLE RECEPTACL	ES			
				AIC RATIN	_	1	10,000A						_					K: KITCHEN		and 1000 miles		_
2	V	A LOAI	D		出	TYF	E CNT.	C.	В.	В	US	C.I	В.	TYF	PE C	NT.	님			VA LOAE)	
SKT	Α	В	С	LOAD DESCRIPTION	8	М	R L	TR	Р	Α	ВС	TR	Р	L	R	M	8	LOAD DESCRIPTION	Α	В	С	
1	1080		_	OFFICE REC	R		6	20	1	X		20	1		3		N	ROOFTOP REC	540			
3		1080		OFFICE REC	R		6	20	1		X	20	1			3	N	SMOKE DETECTOR		150		
5			1080	CONF RM REC	R		6	20	1		X	20	1		1		N	ROOFTOP REC	5		180	
7	720		-	CONF RM REC	R		4	20	1	X		20	1			1	N	SMOKE DETECTOR	50			
9		1080		OFFICE REC	R		6	20	1		X	20	1			1	N	'EF-15' FOR OFFICE RR		1656		
11			1080	OFFICE REC	R		6	20	1		X	20	1		1		N	ROOFTOP REC			180	
13	1080			OFFICE REC	R		6	20	1	X		20	1		1		N	BREAK RM COUNTER DED REC	700			
15		1080		OFFICE REC	R		6	20	1		X	20	1		1		N	BREAK RM COUNTER DED REC		700		
17			1080	OFFICE REC	R		6	20	1		X	20	1		1		N	BREAK RM COUNTER DED REC			700	•
19	700			BREAK RM CNTR DED REC	N		1	20	1	X		20	1		1		N	BREAK RM COUNTER DED REC	700	<u> </u>		
21		700		BREAK RM CNTR DED REC	N		1	20	1		X	20	1		1		N	BREAK RM COUNTER DED REC		700		
23	_		700	BREAK RM CNTR DED REC	N		1	20	1		X	20	1		1		N	BREAK RM COUNTER DED REC		<i>'</i>	700	
25	700			BREAK RM CNTR DED REC	N		1	20	1	X		20	1		1		N	BREAK RM COUNTER DED REC	700] '		
27		700		BREAK RM CNTR DED REC	N		1	20	1		X	20	1		1		N	BREAK RM COUNTER DED REC		700		
29	_		700	BREAK RM CNTR DED REC	N		1	20	1		X	20	1		1		N	BREAK RM COUNTER DED REC			700	
31	700			BREAK RM CNTR DED REC	N		1	20	1	X		20	1		1		N	BREAK RM COUNTER DED RED	700] '		
33		700	1	BREAK RM CNTR DED REC	N		1	20	1		X	20	1		4		R	RR CONV REC		720		
35	L		700	BREAK RM DED REC	N		1	20	1	1	X	20	1		6		R	RR & JAN CONV REC			1080	,
37	700		1,000	BREAK RM DED REC	N		1	20	1	X		20	1		1		N	WATER FNTN REC	300	Ι '		
39		700	1	BREAK RM DED REC	N		1	20	1		X	20	1		1		N	WATER FNTN REC		300		
41	L	2 24	700	BREAK RM DED REC	N		1	20	1	1	Х	20	1		1		N	PIT REC			300	
43	700			BREAK RM GARB DISP	N		1	20	1	X		20	1		1	1	L	STORAGE RM LTG & EF-12	89] '		
45		700	1	BREAK RM GARB DISP	N		1	20	1		X	20	1		1	1	L	MOTHER RM LTG & EF-13		57		
47	L		700	BREAK RM DED REC	N		1	20	1	1	X						_	SPACE				•
49	700			BREAK RM DED REC	R		6	20	<u> </u>	X			Н					SPACE		1 '		-
51	,	1060	1	BREAK RM & HALL CONV REC	R		6	20	1	-	X		Н					SPACE				
53	L		560	BREAK RM CONV REC	R		3	20	1	1	X		Н					SPACE				•
55	720			WH OFFICE REC	R		4	20	1	Х		100	3			1	N	SUBPANEL 'LA1'	2720	Ţ '		
57		500]	WH VENDING MACHINE	N		1	20	1	-	X	_	_				N	NOT SELECTION AND DESCRIPTION OF THE OWNER.		2720		
59	L		500	WH WATER	N		1	20	1	1	X	_	_			-	N				2260)
+	7800	8300	195 30030	Proposition Country Country Country	1. *		SI .		- (5)	1								PHASE TOTALS	6499	7703	6100	
			hase A:	14299														CONNECTED			2985	
			hase B:	16003	+ 1													CONNECTE			14	-
		Total F	hase C:	13900														CONNECTE	VA (C	ODE R):	1420	,
					-													CONNECTE	VA (C	ODE K):		•
																		TOTAL CON	NECTE	D KVA:	44.	
																				ID KVA:	-2.	
																		TOTAL A	DJUSTE	D KVA·	42	
																				AMPS:	127.	
																		IOTAL		W/LCL:	127.	-

		ANEL:		PANELVOLT			120/2		3P,	4W				CIR	CUIT	COI	DE:	N: NON-CONTINUOUS				
	LOCA	ATION:	WAREH	HOUSE NEAR OFFICE	BUS:		12	25A										L: LONG-CONTINUOUS				
	MOU	NTING:	SURFA		MAIN:		M.L.											R: DEMANDABLE RECEPTACLE	S			
				AIC RA	TING:		10,00	00A										K: KITCHEN				
9	١	/A LOA	D		띰	TYF	E CN	NT.	C.I	3.	BUS	C.I	В.	TYI	PE C	NT.	믬		\	/A LOAD)	
CKT	Α	В	С	LOAD DESCRIPTION	8	М	R	L	TR	Р	ABC	TR	Р	L	R	M	8	LOAD DESCRIPTION	Α	В	С	
1	720			TRAIN RM REC	N		4		20	1	X	20	1		2		N	SPACE				Ī
3		720		TRAIN RM REC	N		4		20	1	X							SPACE				
5	,		720	TRAIN RM REC	N		4		20	1] x							SPACE				
7	500			TRAIN RM PROJ SCREEN	N	1			20	1	X							SPACE				
9		500		TRAIN RM PROJECTOR	N		1		20	1	X							SPACE				
11			540	PICK UP REC	R		3		20	1	X							SPACE				
13	500			PICK UP DED REC	N		1		20	1	X							SPACE				
15		500	1	PICK UP DED REC	N		1		20	1	X							SPACE				
17	,		500	LOCKER REC	N		2		20	1	X							SPACE				
19	500			LOCKER REC	N		2		20	1	X							SPACE				
21		500]	WH QUAD	N		2		20	1	X							SPACE				
23	,		500	WH QUAD	N		2		20	1) x							SPACE				_
25	500			WH QUAD	N		2		20	1	X							SPACE				
27		500]	WH QUAD	N		2		20	1	X							SPACE				
29				SPACE) x							SPACE				
31				SPACE							X							SPACE				_
33				SPACE							X							SPACE				
35	,			SPACE							X							SPACE				
37				SPACE							X							SPACE		1		_
39]	SPACE							X							SPACE				
41				SPACE				Ī			X							SPACE		,		
	2720	2720	2260	PHASE TOTALS														PHASE TOTALS				
		Total F	hase A:	27	20													CONNECTED	VA (C	ODE N):	7160	0
		Total F	Phase B:	27	20													CONNECTED	VA (C	ODE L):		
		Total F	Phase C:	22	60													CONNECTED	VA (C	ODE R):	540	0
																		CONNECTED	VA (C	ODE K):		_
																		TOTAL CON	NECTE	D KVA:	7.7	7
																		D	EMAN	ID KVA:		
																		TOTAL AD	JUSTE	D KVA:	7.7	7
																		TOTAL F	PANEL	AMPS:	22.7	7
																			AMPS	W/LCL:	22.7	7



hpa, inc.
18831 bardeen avenue - ste.
#100 irvine, ca
92612
tel: 949 • 863 • 1770
fax: 949 • 863 • 0851
email: hpa@hparchs.com

Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

Civil: THIENES
Structural: HSA
Mechanical: RPM
Plumbing: RPM
Electrical: RPM
Landscape: HUNTER LANDSCAPE
Fire Protection: -

PANEL SCHEDULES

Soils Engineer:

Project Number: 19436

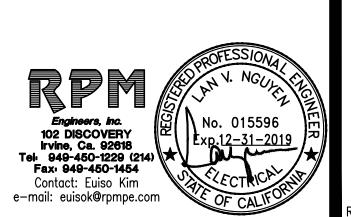
Drawn by: ML

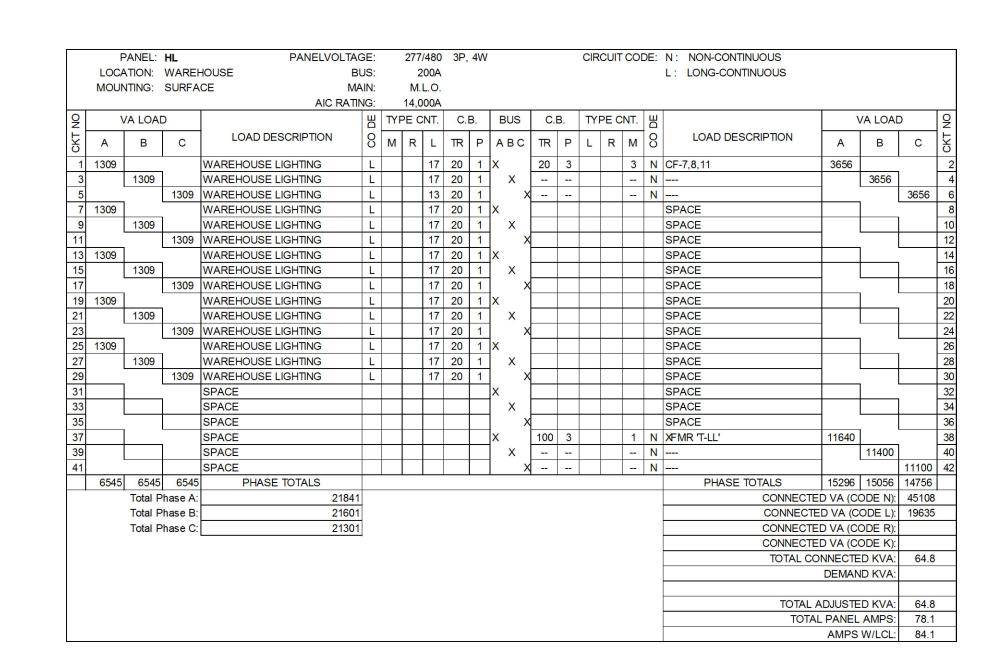
Date: 10/24/19

Revision:

Sheet:

E-5.1





	P	ANEL:	LL	PANELVOLTA	GE:		120/2	208	3P,	4W					CIR	CUIT	COL	DE:	N: NON-CONTINUOUS				
	LOCA	TION:	WARE	HOUSE E	BUS:		22	5A											L: LONG-CONTINUOUS				
	MOUN	TING:	SURFA	CE M	AIN:		22	5A											R: DEMANDABLE RECEPTACL	.ES			
				AIC RAT	ING:		10,00	OA											K: KITCHEN				
2	V	A LOA	D		吕	TYF	PE CN	IT.	C.E	3.	В	US	C.	В.	TYF	PE C	NT.	DE		١	/A LOAD)	
2	Α	В	С	LOAD DESCRIPTION	8	M	R	L	TR	Р	А	ВС	TR	Р	L	R	M	8	LOAD DESCRIPTION	Α	В	С	
1	540			ROOF TOP REC	R		3		20	1	X		30	1		1		Ν	MHE CONVEYER DROP REC	1500			
3		1000]	CONVEYER 30A TWISTLOCK	N		1		30	2		X	30	1		1		Z	MHE CONVEYER DROP REC		1500		
5	_		1000		N				-		Ī	X	30	1		1		N	MHE CONVEYER DROP REC			1500	
7	1000		,	CONVEYER 30A TWISTLOCK	N		1		30	2	X		30	1		1		Ν	MHE CONVEYER DROP REC	1500			
9		1000]		N				-			X	30	1		1		N	MHE CONVEYER DROP REC		1500		
11	_		1000	CONVEYER 30A TWISTLOCK	N		1		30	2		X	30	1		1		N	MHE CONVEYER DROP REC			1500	•
13	1000				N				-		X		30	1		1		Ν	MHE CONVEYER DROP REC	1500	["		•
15		1000	1	CONVEYER 30A TWISTLOCK	N		1		30	2		X							SPACE				
17	_		1000		N				_			X							SPACE				
19	700			CONVEYER PFLEX	N		2		20	1	X								SPACE		[
21		700	Ī	CONVEYER PFLEX	N		2		20	1		X							SPACE				
23			700	CONVEYER PFLEX	N		2	\neg	20	1		X							SPACE				•
25	700			CONVEYER PFLEX	N		2		20	1	X								SPACE				
27		500	1	WH QUAD	N		2		20	1		X							SPACE				
29	L		1000	CONVEYER 30A TWISTLOCK	N		1	-	30	2		X							SPACE				•
31	1000		1.41-2.152		N				_		X								SPACE		1		•
33		1000	Ī	CONVEYER 30A TWISTLOCK	N		1		30	2		X							SPACE				
35	L		1000		N			\dashv	_			X							SPACE				٠
37	500			WH QUAD	N		2	\dashv	20	1	X	•	 						SPACE				•
39		700	1	CONVEYER PFLEX	N		2	-	20	1	-	X							SPACE				
11	L	, 00	700	CONVEYER PFLEX	N		2	-	20	1	,	X							SPACE				
13			700	SPACE	- 1.		_		20	•	X	^							SPACE				٠
15		1000	Ī	CONVEYER 30A TWISTLOCK	N		1	+	30	2	-	X	_						SPACE				
17	L	1000	1000		N			+	-			X			\vdash				SPACE				٠
19	1000		1000	CONVEYER 30A TWISTLOCK	N		1	\dashv	30	2	X	^	 						SPACE		1		-
51	1000	1000	1		N			+	-		1	X							SPACE				
53	L	1000	700	CONVEYER PFLEX	N		2	+	20	1	,	X	_						SPACE				
55	700		700	CONVEYER PFLEX	N		2	-	20	_	X	^							SPACE		1		
57	700	500	ī	WH QUAD	N		2	_	20	1	+	X	<u> </u>						SPACE				
59	Ļ	300		SPACE	IN.		-	-	20	-	,	X							SPACE				
,,,	7140	8400	8100	PHASE TOTALS		ļ		ļ_				^	1						PHASE TOTALS	4500	3000	3000	
	7140		hase A:	1164	0														CONNECTE				
			hase B:	1140															CONNECTE			33000	
			hase C:	1110	_														CONNECTE	•		540	
		TOLAI F	mase C.	1110	U																	540	
																			CONNECTE			24.0	
																			TOTAL CO			34.2	
																				DEMAN	ID KAN:		
																			TOTAL	DILIOT	DIVA	24	
																			TOTAL A			34.2	
																			IOIAL	PANEL	AIVIPS:	95.0	٠

	P	ANEL:	НМ	PANELVOLTA	GE:		277/	480	3P,	4W				CIR	CUIT	COL	DE:	N: NON-CONTINUOUS				
			WAREH		US:			00A	٠. ,									L: LONG-CONTINUOUS				
			SURFA		VIN:			0.										2. 20110 001111110000				
				AIC RATII			14.0															
9	V	A LOAE)		띰	TYF	PE C	NT.	C.I	3.	BUS	С	B.	TYI	PE C	NT.	出			VA LOAI	D	9
CKT	Α	В	С	LOAD DESCRIPTION	8	М	R	L	TR	P	ABC	TR	Р	L	R	M	8	LOAD DESCRIPTION	Α	В	С	CK1
1	1771			WAREHOUSE LIGHTING	L			23	20	1	X	15	3			1	N	CF-3,4	2437			
3		1309		WAREHOUSE LIGHTING	L			25	20	1	X						N			2437		-
5	_		1309	WAREHOUSE LIGHTING	L			25	20	1		X					N		1		2437	1
7	1309			WAREHOUSE LIGHTING	L			25	20	1	X	25	3			1	N	SF-3	3905			
9		1309		WAREHOUSE LIGHTING	L			25	20	1	X						N			3905		1
11	_		1309	WAREHOUSE LIGHTING	L			25	20	1		X					N		1		3905	1:
13	1309			WAREHOUSE LIGHTING	L			25	20	1	X							SPACE				1
15		1309		WAREHOUSE LIGHTING	L			25	20	1	X							SPACE				10
17	_		1309	WAREHOUSE LIGHTING	L			25	20	1		×						SPACE	1			18
19	1309	,		WAREHOUSE LIGHTING	L			25	20	1	X							SPACE		1	,	2
21		1309		WAREHOUSE LIGHTING	L			25	20	1	X							SPACE			1	2
23	_			SPACE								X						SPACE	1			24
25				SPACE							X							SPACE		1		
27				SPACE							X							SPACE				2
29	_			SPACE								×						SPACE	1	L		3
31				SPACE							X							SPACE			,L	3
33				SPACE							X							SPACE			1	3
35	,_			SPACE								×						SPACE	1			3
37				SPACE							X	100	3			1	N	XFMR 'T-LM'	11440	1	L	3
39				SPACE							X					1	N			11200	1	4
41				SPACE								×					N)	9400	4
\Box	5698	5236	3927	PHASE TOTALS														PHASE TOTALS	17782	17542	15742	
		Total P	hase A:	23480														CONNECTE	D VA (C	ODE N):	51066	5
		Total P	hase B:	22778														CONNECTE			14861	1
		Total P	hase C:	19669														CONNECTE	D VA (C	ODE R):		
																		CONNECTE	D VA (C	ODE K):		
																		TOTAL CO	NNECTE	ED KVA:	66.0)
																			DEMAN	ND KVA:		
																		TOTAL A	DJUSTE	ED KVA:	66.0)
																		TOTAL	PANEL	AMPS:	84.8	3
																				W/LCL:		

		ANEL:		PANELVOLT			120/208	3P,	4W				CIRC	CUIT	COL	E:	N: NON-CONTINUOUS			
			WAREH		BUS:		225A 225A										L: LONG-CONTINUOUS	FC		
	MOON	HING.	SURFA		MAIN:												R: DEMANDABLE RECEPTACL K: KITCHEN	ES		
<u>. </u>		(A OA)	_	AIC RA		T 7/1	10,000A	0.5		BUIG			7/5)	-	111	K. KITCHEN		(4.1.04)	
2	V	'A LOAI)		出	IYI	PE CNT.	C.E	3.	BUS	C.	В.	IYI	PE CN	\rightarrow	님			VA LOAI)
5	Α	В	С	LOAD DESCRIPTION	8	М	R L	TR	Р	ABC	TR	P	L	R	М	8	LOAD DESCRIPTION	Α	В	С
1	540		-	ROOF TOP REC	R		3	20	1	X	30	1		1		N	MHE DROP	1500		-
3	L	1000		CONVEYER 30A TWISTLOCK	N		1	30	2	X	30	1		1		N	MHE DROP		1500	
5			1000		N			-)	30	1		1		N	MHE DROP		-	150
7	1000			CONVEYER 30A TWISTLOCK	N		1	30	2	X	30	1		1		N	MHE DROP	1500		-
9	L	1000			N			-	-	X	30	1		1		N	MHE DROP		1500	
1			1000	CONVEYER 30A TWISTLOCK	N		1	30	2)	X 30	1		1		N	MHE DROP			150
3	1000				N			-		X	30	1		1		N	MHE DROP	1500		
5	L	700		CONVEYER PFLEX	N		2	20	1	X	30	1		1		N	MHE DROP		1500	
7			700	CONVEYER PFLEX	N		2	20	1)	X 30	1		1		N	MHE DROP		_	150
9	700			CONVEYER PFLEX	N		2	20	1	X	30	1		1		N	MHE DROP	1500		_
1		1000		CONVEYER 30A TWISTLOCK	N		1	30	2	X	30	1		1		N	MHE DROP		1500	
3			1000		N			-)	×						SPACE			
5	1000			CONVEYER 30A TWISTLOCK	N		1	30	2	X							SPACE			_
7		1000			N		-	-	7	X							SPACE			
9			700	CONVEYER PFLEX	N		2	20	1)	K						SPACE		,	
1	700			CONVEYER PFLEX	N		2	20	1	X							SPACE			
33		500]	WH QUAD	N		2	20	1	X							SPACE			
35			500	WH QUAD	N		2	20	1)	K						SPACE		,	
37	500			WH QUAD	N		2	20	1	X							SPACE			
9				SPACE						X							SPACE			1
1	-			SPACE)	<						SPACE	1		
3				SPACE						X							SPACE		1	
5]	SPACE						X							SPACE			1
7				SPACE							<						SPACE	1		
9				SPACE						X							SPACE		Ĭ	
1]	SPACE						X							SPACE			1
3				SPACE						,	×						SPACE		,	
5				SPACE						X							SPACE]	
7			1	SPACE						X							SPACE			1
9				SPACE							<						SPACE	1		
	5440	5200	4900	PHASE TOTALS													PHASE TOTALS	6000	6000	450
			hase A:	114	40												CONNECTE			315
			hase B:	112													CONNECTE			
			hase C:		00												CONNECTE			1
																	CONNECTE			_
																	TOTAL CO			32
																		DEMAN		
																	TOTAL A	DJUSTF	D KVA	32
																		PANEL		95
																	101712		W/LCL:	95

	PA	NEL:	HJ		PANELVOLTAC	GE:		277/	480	3P,	4W					CIR	CUIT	COL	DE:	N: NON-CONTINUOUS				
	LOCAT	ION:	WAREI	HOUSE	Bl	JS:			00A											L: LONG-CONTINUOUS				
	MOUNT	ING:	SURFA	CE	MA	IN:		M.I	L.O.															
					AIC RATIN	NG:		14,0	00A															
9	VA	LOA	D			DE	TYF	PE C	NT.	C.I	3.	В	US	C.	В.	TY	PE C	NT.	DE		١	VA LOA)	9
CKT	Α	В	С	LOA	D DESCRIPTION	8	М	R	L	TR	Р	Α	ВС	TR	Р	L	R	М	8	LOAD DESCRIPTION	Α	В	С	KT
1				SPACE								X		15	3			1	N	CF-18	1218			2
3			7	SPACE									X		-				N			1218]	4
5				SPACE									X		-				Ν		İ		1218	6
7				SPACE								X		25	3			1	N	SF-6	3509	Ī		8
9			7	SPACE									X		-				N			3509	1	10
11				SPACE								1	X		-				N		1		3509	12
13				SPACE								X								SPACE				14
15			7	SPACE									X							SPACE			1	16
17	_			SPACE								İ	X							SPACE	1			18
19				SPACE								X								SPACE		Ī		20
21			7	SPACE									X							SPACE			1	22
23				SPACE								İ	X							SPACE				24
25				SPACE								X								SPACE		Ī		26
27			7	SPACE									X							SPACE]	28
29				SPACE								1	X							SPACE	1			30
31				SPACE								X								SPACE		Ī		32
33			7	SPACE									X							SPACE			Ī	34
35				SPACE									X							SPACE	1			36
37				SPACE								X		100	3			1	N	XFMR 'T-LJ'	3500	Ī		38
39			7	SPACE									X						N			3000	I	40
41				SPACE									X		-				N		1		3180	42
				PH	HASE TOTALS															PHASE TOTALS	8227	7727	7907	
	7	Total F	hase A:		8227															CONNECTE	D VA (C	ODE N):	23861	
	17	Total F	Phase B:		7727															CONNECTE	D VA (C	ODE L):		
	17	Total F	Phase C:		7907															CONNECTE	D VA (C	ODE R):		
				,																CONNECTE	D VA (C	ODE K):		
																				TOTAL CO	NNECTE	D KVA:	23.9	
																					DEMAN	ID KVA:		
																				TOTAL A			23.9	
																				TOTAL	PANEL		28.8	
																					AMPS	W/LCL:	28.8	į.

	P	ANEL:	LJ	PANELVOLTA	GE:		120/20	8 3P	, 4W				CIR	CUIT	CO	DE:	N: NON-CONTINUOUS				
	LOCA	TION:	WAREH	HOUSE B	US:		225	4									L: LONG-CONTINUOUS				
	MOUN	TING:	SURFA	CE MA	AIN:		225	4									R: DEMANDABLE RECEPTACLE	S			
				AIC RATII	NG:		10,000	4									K: KITCHEN				
9	V	A LOA)		씸	TYI	PE CNT	C	В.	BUS	C.	B.	TY	PE C	ONT.	씸		VA	LOAD)	ON
S	Α	В	С	LOAD DESCRIPTION	8	M	R L	TR	Р	ABC	TR	Р	L	R	М	8	LOAD DESCRIPTION	Α	В	С	CKT
1	500		_	DOCK LT & QUAD	N	1		20	1	X							SPACE				2
3		500		DOCK CTRL	N	2		20	1	X							SPACE				
5				DOCK LT & QUAD	N	1		20	1								SPACE				(
7	500			DOCK CTRL	N	2		20	1	X							SPACE				8
9		500		DOCK LT & QUAD	N	1		20	1	X							SPACE				10
11			500	DOCK CTRL	N	2		20	1)	<						SPACE				1:
13	500	,		DOCK LT & QUAD	N	1		20	1	X							SPACE				14
15		500		DOCK CTRL	N	2		20	1	X							SPACE				10
17			500	DOCK LT & QUAD	N	1		20	1		<						SPACE				18
19	500			DOCK CTRL	N	2		20	1	X							SPACE				20
21		500		DOCK LT & QUAD	Ν	1		20	1	X							SPACE				2
23			500	DOCK CTRL	N	2		20	1		<						SPACE				2
25	500		,	DOCK LT & QUAD	N	1		20	1	X							SPACE				2
27		500		DOCK CTRL	N	2		20	1	Х							SPACE			ſ	2
29			500	DOCK LT & QUAD	N	1		20	1		<						SPACE				3
31	500			DOCK CTRL	N	2		20	1	X							SPACE		_		32
33		500		WH QUAD	N		2	20	1	X							SPACE				3
35	_		500	WH QUAD	N		2	20	1)	<						SPACE				3
37	500			WH QUAD	N		2	20	1	X							SPACE				38
39				SPACE						X							SPACE			ſ	4
41			180	ROOFTOP REC	R		1	20	1		<						SPACE				4:
	3500	3000	3180	PHASE TOTALS													PHASE TOTALS				
		Total P	hase A:	3500)												CONNECTED	VA (COD	E N):	9500	
		Total P	hase B:	3000)												CONNECTED	VA (COE	DE L):		
		Total P	hase C:	3180)												CONNECTED	VA (COD	E R):	180	
																	CONNECTED	VA (COD	E K):		
																	TOTAL CONI	NECTED	KVA:	9.7	
																	Г	DEMAND	KVA:		
																	TOTAL AD			9.7	
																		PANEL A		29.2	
																		AMPS W	/LCL:	29.2	

P	ANEL:	HK	PANELVOLTA	GE:		277/	480	3P,	4W					CIR	CUIT	COL	E:	N: NON-CONTINUOUS				
LOCA	TION:	WAREH	HOUSE B	US:		2	00A											L: LONG-CONTINUOUS				
MOUN	TING:	SURFA	CE MA	AIN:		M.I	L.O.															
			AIC RATI	NG:		14,0	00A															
V	A LOAE)		씸	TYF	PE C	NT.	C.E	3.	BU	JS	C.I	В.	TY	PE C	NT.	Ы		1	VA LOAI	D	9
Α	В	С	LOAD DESCRIPTION	8		R	L	TR	Р	АВ	С	TR	Р	L	R	М	8	LOAD DESCRIPTION	Α	В	С	CKT
1309			WAREHOUSE LIGHTING	L			17	20	1	X	Ī	15	3			2	N	CF-12,15	2437			2
	1309		WAREHOUSE LIGHTING	L			17	20	1	X	(-	_				N			2437]	-
_		1001	WAREHOUSE LIGHTING	L			13	20	1		X	_	_				N		1		2437	(
1309			WAREHOUSE LIGHTING	L			17	20	1	X	İ	20	1			1	N	IWH-1	4150]		- 8
	1309		WAREHOUSE LIGHTING	L			17	20	1	×		20	1			1	N	IWH-1		4150	1	1
		1309	WAREHOUSE LIGHTING	L			17	20	1		X	20	1			1	N	IWH-1	1		4150	12
1309			WAREHOUSE LIGHTING	L			17	20	1	X	İ	20	1			1	N	IWH-1	4150	[14
	1309		WAREHOUSE LIGHTING	L			17	20	1	X		20	1			1	N	IWH-1		4150	1	10
_		1309	WAREHOUSE LIGHTING	L			17	20	1		X	20	1			1	N	IWH-1	1		4150	18
1309			WAREHOUSE LIGHTING	L			17	20	1	X	1							SPACE]		20
	1309		WAREHOUSE LIGHTING	L			17	20	1	X	(SPACE			1	22
_		1309	WAREHOUSE LIGHTING	L			17	20	1		X							SPACE	1			2
1309			WAREHOUSE LIGHTING	L			17	20	1	X	İ							SPACE		1		26
	1309		WAREHOUSE LIGHTING	L			17	20	1	X								SPACE			1	2
			SPACE								X							SPACE	1			3
			SPACE							X	ı							SPACE		1		3:
			SPACE							X								SPACE			1	34
_			SPACE							1	X							SPACE	1			36
200			WH RR LTG	L			5	20	1	X	İ	100	3			1	N	XFMR 'T-LK'	16380	ľ		38
	4160		IWH-1 @ WH RR	N	1			20	1	X	(_	_			_	N			14496]	4
_		4160	IWH-1 @ WH RR	N	1			20	1		X	_	_			_	N		1		13180	42
6745	10705	9088	PHASE TOTALS					•										PHASE TOTALS	27117	25233	23917	
	Total P	hase A:	33862	2														CONNECTE	D VA (C	ODE N):	84587	
	Total P	hase B:	35938	3														CONNECTE	DVA (C	ODE L):	18218	
	Total P	hase C:	33005	5														CONNECTE	D VA (C	ODE R):		
				_														CONNECTE	D VA (C	ODE K):		
																		TOTAL CO	NNECTE	D KVA:	102.9	
																			DEMAN	ID KVA:		
																		TOTAL A	DILIETE	D K//A ·	102.0	
																		900 SHV 308F 895-W190	PANEL	0.00 0.00 0.00	102.9	
	LOCA MOUN V A 1309 1309 1309 1309 200	LOCATION: MOUNTING: WA LOAD A B 1309 1309 1309 1309 1309 1309 1309 200 4160 6745 Total P Total P Total P	LOCATION: WAREH MOUNTING: SURFAI A B C 1309 1309 1309 1309 1309 1309 1309 1309 1309 1309 200 4160 4160	MOUNTING: WAREHOUSE BRACE MARCHOUS	MOUNTING: WAREHOUSE MAIN: MAI	MOUNTING: WAREHOUSE BUS: MAIN: AIC RATING:	LOCATION: WAREHOUSE BUS: 2	LOCATION: WAREHOUSE BUS: 200A MOUNTING: SURFACE MAIN: MAIN: MAIN: O. AIC RATING: 14,000A	LOCATION: WAREHOUSE BUS: 200A MOUNTING: SURFACE MAIN: M.L.O.	LOCATION: WAREHOUSE BUS: 200A MAIN: M.L.O. AIC RATING: 14,000A M.L.O. AIC RATING: 14,000A M.L.O. AIC RATING: 14,000A M.L.O. AIC RATING: M.L.O. AIC RATING: M.L.O. M	LOCATION: WAREHOUSE BUS: 200A MAIN: M.L.O.	LOCATION: WAREHOUSE BUS: 200A MAIN: M.L.O.	LOCATION: WAREHOUSE BUS: 200A MAIN: M.L.O.	LOCATION: WAREHOUSE BUS: 200A MAIN: M.L.O. AIC RATING: 14,000A M.L.O. AIC RATING: 14,000A M.L.O. AIC RATING: 14,000A M.L.O. AIC RATING: 14,000A M.L.O. AIC RATING:	LOCATION: WAREHOUSE BUS: 200A MAIN: MIL.O.	LOCATION: WAREHOUSE BUS: 200A MAIN: M.L.O.	LOCATION: WAREHOUSE BUS: 200A MAIN: M.L.O.	LOCATION: WAREHOUSE BUS: 200A MAIN: M.L.O.	LOCATION WAREHOUSE BUS CANAIN MILO MILO	LOCATION: WAREHOUSE BUS: 200A MAIN:	COCATION: WAREHOUSE SURFACE	

	P	ANEL:	LK	PANELVOLTA	AGE:		120/	208	3P,	4W					CIF	RCUIT	COL	E:	N: NON-CONTINUOUS				
	LOCA	TION:	WARE	HOUSE I	BUS:		2:	25A											L: LONG-CONTINUOUS				
	MOUN	ITING:	SURFA	CE N	IAIN:		2:	25A											R: DEMANDABLE RECEPTACE	LES			
_				AIC RAT	TING:		10,0	A00											K: KITCHEN				_
2	V	A LOA	O O		出	TYF	PE C	NT.	C.E	3.	BUS	s	C.I	3.	TY	PE C	NT.	씸		1	VA LOAI)	
5	Α	В	С	LOAD DESCRIPTION	8	M	R	L	TR	Р	АВ	С	TR	Р	L	R	M	8	LOAD DESCRIPTION	Α	В	С	
1	1000			CONVEYER 30A TWISTLOCK	N		1		30	2	X		20	1		6		R	RESTROOM REC	1080			Τ
3		1000			N					-	X		20	1			1	N	EF-14		696		
5			1000	CONVEYER 30A TWISTLOCK	N		1		30	2		X	20	1		1		N	ROOFTOP REC			180	Τ
7	1000		_		N					1	X		30	2		1		N	CONVEYER 30A TWISTLOCK	1000			Τ
9		700		CONVEYER PFLEX	N		2		20	1	X					_		N			1000		
1			700	CONVEYER PFLEX	N		2		20	1		X	30	2		1		N	CONVEYER 30A TWISTLOCK		_	1000	
3	500		_	WH QUAD	N		2		20	1	X							N		1000			L
5		1000		CONVEYER 30A TWISTLOCK	N		1		30	2	X		30	2		1		N	CONVEYER 30A TWISTLOCK		1000		
7			1000		N							X						N				1000	
9	1000			CONVEYER 30A TWISTLOCK	N		1		30	2	X		20	1		2			CONVEYER PFLEX	700			
1		1000			N						X		20	1		2			CONVEYER PFLEX		700		
3			700	CONVEYER PFLEX	N		2		20	1		X	20	1		2			CONVEYER PFLEX			700	
5	700		_	CONVEYER PFLEX	N		2		20	1	X		30	2		1		N	CONVEYER 30A TWISTLOCK	1000		_	
7		500		WH QUAD	N		2		20	1	X							N			1000		
9			1000	CONVEYER 30A TWISTLOCK	N		1		30	2		X	30	2		1		N	CONVEYER 30A TWISTLOCK			1000	
1	1000		_		N						X					-		Ν		1000			
3		1000		CONVEYER 30A TWISTLOCK	N		1		30	2	X		30	2		1		Ν	CONVEYER 30A TWISTLOCK		1000		
5			1000		N					-		X	3			-		N				1000	
7	1000			CONVEYER 30A TWISTLOCK	N		1		30	2	X		20	1		2		Ν	CONVEYER PFLEX	700			
9		1000			N						X		20	1		2		N	CONVEYER PFLEX		700		
1			700	CONVEYER PFLEX	N		2		20	1		X	20	1		2		N	CONVEYER PFLEX		-	700	
3	700			CONVEYER PFLEX	N		2		20	1	X		30	1		2		N	MHE DROP	1500			,
5		700		CONVEYER PFLEX	N		2		20	1	X		30	1		2		N	MHE DROP		1500		
7				SPACE								X	30	1		2		N	MHE DROP			1500	
9			_	SPACE							X		30	1		2		N	MHE DROP	1500		_	
1				SPACE							X								SPACE				
3				SPACE			$oxed{oxed}$					X					$oxed{oxed}$		SPACE				
5				SPACE							X								SPACE			1	L
7				SPACE							X								SPACE				
9				SPACE								X							SPACE				
	6900		6100																PHASE TOTALS		7596	7080	l
		Total F	hase A:	1638	_														CONNECTE	D VA (C	ODE N):	40876	ò
			hase B:	1449															CONNECTE				
		Total F	hase C:	1318	80														CONNECTE)
																			CONNECTE				_
																			TOTAL CO			44.1	
																				DEMAN	ID KVA:		
																			TOTAL A	ADJUSTE	D KVA	44.1	<u> </u>
																				PANEL			
																			10 17 12		W/LCL:	136.5	

	F	PANEL:	НН	PANELVOLTA	GE:		277/48	0 3P	, 4 W	1				CIR	CUIT	COI	DE:	N: NON-CONTINUOUS				
	LOCA	ATION:	WARE	HOUSE E	BUS:		200											L: LONG-CONTINUOUS				
	MOUN	NTING:	SURFA	CE M	AIN:		M.L.).														
				AIC RAT	ING:		14,000	A														
2	١	VA LOA	.D		핌	TY	PE CN	. c	В.	В	US	C.	В.	TY	PE C	NT.	씸		,	VA LOAE)	2
CKT	Α	В	С	LOAD DESCRIPTION	8	M	RL	TR	Р	Α	ВС	TR	Р	L	R	М	8	LOAD DESCRIPTION	Α	В	С	- F/O
1				SPACE						X		15	3			2	N	CF-16,17	2437			Τ
3				SPACE							X					_	N			2437		
5				SPACE							X					-	N				2437	Ī
7]		SPACE						X		25	3			1	N	SF-5	3905] '		T
9			1	SPACE						1	X					-	N			3905		9
11				SPACE							X					-	N		1	,	3905	
13		1		SPACE						X								SPACE] '		
15			1	SPACE						1	X							SPACE				
17				SPACE						1	X							SPACE	1			
19		1	,	SPACE						X								SPACE		ĺ '		1
21			1	SPACE							X							SPACE				
23		-		SPACE						1	X							SPACE	1 '			3
25		1	-	SPACE						X								SPACE		Ī '		
27			1	SPACE							X							SPACE				
29				SPACE						1	X							SPACE				1
31		1		SPACE						X								SPACE] '		T
33			7	SPACE						1	X							SPACE				
35				SPACE						1	X							SPACE				ı
37		1		SPACE						X		100	3			1	N	The state of the s	3000	I '		-
39			1	SPACE						1	X					-	N			3180		
41				SPACE						1	X					-	N		1		2860	
				PHASE TOTALS		_			_	_							_	PHASE TOTALS	9342	9522	9202	T
		Total F	hase A:	9342	2													CONNECTE	D VA (C	ODE N):	28066	;
		Total F	Phase B:	9522	2													CONNECTE	D VA (C	ODE L):		
		Total F	Phase C:	9202	2													CONNECTE	D VA (C	ODE R):		_
					_													CONNECTE	D VA (C	ODE K):		_
																		TOTAL CO	NNECTE	D KVA:	28.	_
																			DEMAN	ID KVA:		_
																						_
																		TOTAL A	DJUSTE	D KVA:	28.1	_
																			PANEL		33.9)
																				W/LCL:	33.9)

	F	PANEL:	LH	PANELVOLTA	GE:		120/208	3P,	4W					CIR	CUIT	COL	DE:	N: NON-CONTINUOUS				
	LOCA	ATION:	WARE	HOUSE E	BUS:		225A											L: LONG-CONTINUOUS				
	MOUN	NTING:	SURFA	CE M	AIN:		225A											R: DEMANDABLE RECEPTACL	.ES			
				AIC RAT	ING:		10,000A											K: KITCHEN				
9	١	/A LOA	D		DE	TYP	E CNT.	C.	В.	BU	IS	C.E	3.	TYF	PE CI	NT.	DE			VA LOAD)	Ī
X	Α	В	С	LOAD DESCRIPTION	8	М	R L	TR	Р	АВ	С	TR	Р	L	R	М	8	LOAD DESCRIPTION	Α	В	С	
1	500			DOCK LT & QUAD	N	1		20	1	X								SPACE				1
3		500		DOCK CTRL	N	2		20	1	X	(SPACE				
5			500	DOCK LT & QUAD	N	1		20	1		X							SPACE				1
7	500			DOCK CTRL	N	2		20	1	X								SPACE] '		1
9		500	1	DOCK LT & QUAD	N	1		20	1	X	(SPACE				
11			500	DOCK CTRL	N	2		20	1	1	X							SPACE				T
13	500			DOCK LT & QUAD	N	1		20	1	X	Ī							SPACE]		I
15		500		DOCK CTRL	N	2		20	1	X	(SPACE				_[
17			500	DOCK LT & QUAD	N	1		20	1		X							SPACE				1
19	500			DOCK CTRL	N	2		20	1	X								SPACE] '		T
21		500]	DOCK LT & QUAD	N	1		20	1	Х	(SPACE				ı
23			500	DOCK CTRL	N	2		20	1		X							SPACE				1
25	500		,	DOCK LT & QUAD	N	1		20	1	X								SPACE] '		T
27		500	1	DOCK CTRL	N	2		20	1	X	(SPACE				ſ
29			500	WH QUAD	N		2	20	1		X							SPACE				T
31	500		,	WH QUAD	N		2	20	1	X	Ī							SPACE] '		İ
33		500		WH QUAD	N		2	20	1	X	(SPACE				Ī
35				SPACE							X							SPACE				T
37				SPACE						X								SPACE] '		1
39				SPACE						X	(20	1		1		R	ROOF TOP REC		180		ſ
41				SPACE							X	20	1			2	N	MAU-1			360	T
	3000	3000	2500	PHASE TOTALS														PHASE TOTALS		180	360	T
		Total F	hase A:	300	0													CONNECTE	O VA (C	ODE N):	8860)
		Total F	hase B:	318	0													CONNECTE	D VA (C	ODE L):		
		Total F	hase C:	286	0													CONNECTE	O VA (C	ODE R):	180)
																		CONNECTE	O VA (C	ODE K):		
																		TOTAL CO	NNECT	ED KVA:	9.1	1
																			DEMAI	ND KVA:		_
																		TOTAL A	DJUST	ED KVA:	9.1	1
																		TOTAL	PANEL	AMPS:	26.5	5
																			AMDO	W/LCL:	26.5	5



hpa, inc.
18831 bardeen avenue - ste.
#100 irvine, ca
92612
tel: 949 •863 •1770
fax: 949 • 863 • 0851
email: hpa@hparchs.com

Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

Civil: THIENES
Structural: HSA
Mechanical: RPM
Plumbing: RPM
Electrical: RPM
Landscape: HUNTER LANDSCAPE

Soils Engineer:

Fire Protection:

Title: PANEL SCHEDULES

Project Number: 19436

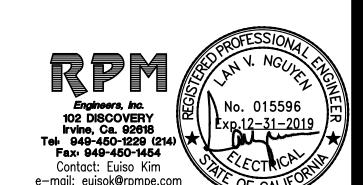
Drawn by: ML

Date: 10/24/19

Revision:

Sheet:

E-5.2



STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE CEC-INCCLTI-03-E (Revised (04/16) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING LIGHTING CONTROLS CEC-NRCC LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING CECNRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING CEC-MRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Ligh ting Power Allowance (Page 4 of 4)	CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls (Page 3 of 3)	CECHNOCLIFOTE (Revised With) CERTIFICATE OF COMPLIANCE Indoor Lighting (Page 50f6)	CENTRICATION E (PRESSED UNIT) CERTIFICATE OF COMPLIANCE Indoor Lighting (Paget of 6)
Project Name: DLX8 Date Prepared: 11/04/19	Project Name: DLX8 Date Prepared: 11/04/19	Project Name: DLX8 Date Prepared: 11/04/19	Project Name: DLX8 Date Prepared: 11/04/19
DOCUMENTATION AUTHOR'S DECLARATION STATE MENT 1. I certify that this Certificate of Compliance documentation is accurate and complete.	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for: X CONDITIONED SPACE	A. General Information Climate Zone : Conditioned Floor Area : 11,834 SF
Documentation Author Name: LAN V NGUYEN Company: RPM ENGINEERS INC. Signature Date: 11/04/19	1. I certify that his Certificate of Compliance documentation is accurate and complete. Documentation Author Name: LAN V NGUYEN Documentation Author Signature:	H. Indoor Lighting Schedule and Field Inspection Energy Checklist	6 Unconditioned Floor Area : 346,970 SF Building Type: X Nonresidential High-Rise Residential Hotel/Motel
Address: 102 DISCOVERY CEA Certification (dentification (deapplicable): E-15596	Company: RPM ENGINEERS INC. Signature Date: 11/04/19	Luminaire Schedule Installed Watts Location Field Inspector	Schools
Chylsiate/Zip: IRVINE, CA 92618 949-450-1229 RESPONSIBLE PERSON'S DECLARATION STATEMENT	Address: 102 DISCOVERY	How wattage was determined	Phase of Construction:
I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance	RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjuny, under the laws of the State of California:	So So Complete Luminaire Description	Project Address: 515 E. DYER ROAD. SANTA ANA,CA 92707
(responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of	The information provided on this Certificate of Compliance is true and correct. In all eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).	Compared Committee Commi	B. Lighting Compliance Documents (select yes for each document included) For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.
Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	 The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 	A 2'X4' RECESSED LED 42 □ 区 69 2,898 OPEN OFFICE/BREAK ROOM O O C 6" RECESSED LED 23 □ 区 46 1,058 RESTROOM O O	YES NO COMP. DOC. TITLE NRCC-LTI-01-E Certificate of Compliance. All Pages required on plans for all submittals.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available titthre enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the document alon the building owner at occupancy.	 The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the 		NRCCLTI-02-E Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
Responsible Designer Name: LAN V NGUYEN Responsible Designer Signature: Date Signature:	enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. Responsible Designer Name: LAN V NGUYEN Responsible Designer Signature:		NRCC-LTI-04-E Tailored Method Worksheets NRCC-LTI-05-E Line Voltage Track Lighting Worksheets
Address: 102 DISCOVERY License: E-15596	Company: RPM ENGINEERS INC. Date Signed: 11/04/19		NRCCLTI-06-E Indoor Lighting Existing Conditions
ChylState/Zp: IRVINE, CA 92618 Phone: 949-450-1229	Address: 102 DISCOVERY License: E-15596	INSTALLED WATTS PAGE TOTAL: 3,956 Enter sum total of all pages into 3,956	
		NRCC-LTI-01-E; Page 2	
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016		CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016
	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	
STATE OF CALIFORNIA INDOOR LIGHTING	STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE	STATE OF CALIFORNIA INDOOR LIGHTING	STATE OF CALIFORNIA INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E	CECNRCCLTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-03-E	CECNRCC-LT-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E	CECHROCL TI-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E .
Indoor Lighting (Page 5of6) Project Name: DLX8 Date Prepared: 11/04/19	Certificate of Compliance - Indoor Ligh ting Power Allowance (Page 1 of 4) Project Name: DLX8 Date Prepared: 11/04/19	Indoor Lighting (Page 6 of 6) Project Name: DLX8 Date Prepared: 11/04/19	Indoor Lighting (Page 2 of 6) Project Name: DLX8 Date Prepared: 11/04/19
A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:	A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. Legific that this Certificate of Compliance documentation is accurate and complete.	C. Summary of Allowed Lighting Power
☐ CONDITIONED SPACE ☐ UNCONDITIONED SPACE	X CONDITIONED spaces UNCONDITIONED spaces A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCE S	1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: LAN V NGUYEN Company: Signature: Documentation Author Signature: Signature: Documentation Author Signature:	Conditioned and Unconditioned space Lighting must not be combined for compliance Indoor Lighting Power for Conditioned Spaces Indoor Lighting Power for Unconditioned Spaces
H. Indoor Lighting Schedule and Field Inspection Energy Checklist Luminaire Schedule Installed Watts Location Field Inspector 1	A: SUMMARY TOTALS OF LIGHTING POWER ALLOWANCE. S If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts. If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total	Company: RPM ENGINEERS INC. Signature Date: 11/04/19 Address: 102 DISCOVERY CEA Certification (dentification (if applicable): E-15596	Watts Watt
01 02 03 04 05 06 07 08 How wattage was	allowed building watts	City/State/Zp: IRVINE, CA 92618 Phone: 949-450-1229 RESPONSIBLE PERSON'S DECLARATION STATEMENT	02 Portable Only for Offices NRCC-LTI-01-E, Table G, page 4 + — —
determined surface and surface	01 Complete Building Method Allowed Watts. Documented in section B of NRCC - LTI - 03 - E (below on this page) 02 Area Category Method Allowed Watts. Documented in section C - 1 of NRCC - LTI - 03 - E (below on this page) 10,392	I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.	03 Minus Lighting Control Credits NRCC-LTI-02-E, page 2 - Minus Lighting Control Credits NRCC-LTI-02-E, page 2 - Minus Lighting Control Credits NRCC-LTI-02-E, page 2 - Minus Lighting Control Credits NRCC-LTI-02-E, page 2 - Minus Lighting Control Credits NRCC-LTI-02-E, page 2 - Minus Lighting Control Credits NRCC-LTI-02-E, page 2 - Minus Lighting Control Credits NRCC-LTI-02-E, page 2 - Minus Lighting Control Credits
Name of Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, (i.e., 3 lamp fluorescent	02 Alea Category Method Allowed Watts. Documented in section C - 101 NRCC - LTI- 03 - E (below off this page) 03 Tailored Method Allowed Watts. Documented in section A of NRCC - LTI- 04 - E TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC LTI 01, Page 2, Row 1 10,392	 I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of 	04 Adjusted Installed Lighting Power (row 1 plus 2 minus row 3) = 3,956 Adjusted Installed Lighting Power (row 1 minus row 3) = 158,466 Complies ONLY if Installed d Allowed (Box 04 < Box 05) Complies ONLY if Installed d Allowed (Box 04 < Box 05)
F32T8, one dimmable electronic ballast) S 3	Check here if building contains both conditioned and unconditioned areas.	Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	Allowed Lighting Power Allowed Lighting Power
D2 LED STRIPLIGHT	B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE 01 02 03 04	 I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the 	05 Alterations with replacement luminaires that have at least 10,392 Alterations with replacement luminaires that have at least 208,182
	WATTS X COMPLETE ALLOWED	builder provides to the building owner at occupancy. Responsible Designer Name: LAN V NGUYEN Commany: Date Spreed: A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2 may instead use the allowed wattage from NRCC-LTI-06, page 2
	Total Area:	Company: RPM ENGINEERS INC. Date Signed: 11/04/19 Address: 102 DISCOVERY License: E-15596	D. Declaration of Required Certificates of Installation Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)
	Total Watts. Enter Total Watts into section A, row 1 (Above on this page)	Chy/State/Zp: IRVINE, CA 92618 Phone: 949-450-1229	YES NO Form/Title O NRCI-LTI-01-E - Must be submitted for all buildings ☐ Field Inspector
INSTALLED WATTS PAGE TOTAL: 158,466 Enter sum total of all pages into NRCC-LTI-01-E; Page 2 158,466	C - 1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES Watts Total from section C - 2. 10,392		NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compilance.
	Total from section C - 3. Total Watts. Enter Total Watts into section A, row 2 (Above on this page). 10,392		NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.
	For Alterations Only Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.		NRCI-LTI-04 E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compilance.
			O RCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.
	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016		NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Emiciency Standards - 2016 Nothesidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016
STATE OF CALIFORNIA			
STATE OF CALIFORNIA	STATE OF CALIFORNIA	STATE OF CALIFORNIA	STATE OF CALIFORNIA
STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE CECNRCC-LT1-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION INDOCATE OF COMMULANCE NDCC LT1 03-E	STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE CEC-NRCCLTI-03= (Revised 04/16) CEDTIEI/CATE OF COMMINANCE NRCCLTI-03 = (Revised 04/16) NRCCLTI-03 = (Revised 04/16)	STATE OF CALIFORNIA INDOOR LIGHTING LIGHTING CONTROLS CEC-NECT-INJUZE (Revised 01/16) CALIFORNIA ENERGY COMMISSION DECRETE COLD LANCE NECT TO COLD LANCE	STATE OF CALIFORNIA INDOOR LIGHTING CECHAROCATION F. (Revised 04/16) CECHAROCATION F. (Revised 04/1
CECTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Ligh ting Power Allowance (Page 1 of 4)	CECT-NRCC-LTI-03-E (Revised 04/16) CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance (Page 2 of 4)	INDOOR LIGHTING CONTROLS GEC-NRCC-LTI-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls (Page 1 of 3)	CEC-NRCC-LTI-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE Indoor Lighting (Page 3 of 6)
CECNRCCLTI-03-E (Revised 04/16) CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Ligh ting Power Allowance (Page 1 of 4) Project Name: DLX8 CALIFORNIA ENERGY COMMISSION RCC-LTI-03-E (Page 1 of 4)	CEC-NRCC-LT-03-E (Revised Q4/16) CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance Project Name: DLX8 Date Prepared: 11/04/19	INDOOR LIGHTING CONTROLS CEC-NECC-LTH-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls Project Name: DLX8 CALIFORNIA ENERGY COMMISSION (Page 1 of 3) Date Prepared: 11/04/19	CEC-NRCC-LTI-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: DLX8 Date Prepared: 11/04/19
CECHRCCLTI-03-E [Revised M416] CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Ligh ting Power Allowance (Page 1 of 4) Project Name: DLX8 A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: CONDITIONED spaces UNCONDITIONED spaces IX	CECT-NRCC-LTI-03-E (Revised 04/16) CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance (Page 2 of 4)	INDOOR LIGHTING CONTROLS CEC-NRCC-LT-102E (Revised 0116) CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls Project Name: DLX8 A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)	CECHRICCLTI-01-E (Revised OW16) CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: DLX8 Date Prepared: Declaration of Required Certificates of Acceptance Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)
CECHRCCLTI-03-E Revised M416) CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Ligh ting Power Allowance (Page 1 of 4) Project Name: DLX8 Date Prepared: 11/04/19 A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: CONDITIONED spaces UNCONDITIONED spaces If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.	CEC-NROC_LTI-03-E [Revised QM16] CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance Project Name: DLX8 Date Properted: 11/04/19 A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: CONDITIONED spaces UNCONDITIONED spaces C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE	INDOOR LIGHTING LIGHTING CONTROLS CEC-NIFCC-LTI-02E (Revised 011/6) CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls Project Name: DLX8 A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.) YES NO Control Requirements	CECHRICCLTI-01-E (Revised OW16) CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: DLX8 Date Prepared: 11/04/19 E. Declaration of Required Certificates of Acceptance Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.) YES NO FORM/TITLE NRC2-LTI-01-E NRC4-LTI-02- A- Must be submitted for occupancy sensors and automatic time switch controls.
CECHRICATE OF COMPLIANCE Certificate of Compliance - Indoor Ligh ting Power Allowance (Page 1 of 4) Project Name: DLX8 A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: CONDITIONED spaces UNCONDITIONED spaces X A SUMMARY TOTALS OF LIGHTING POWER ALLOWANCE S	CEC-NROC_LTI-03-E (Revised QM16) CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance Project Name: DLX8 Date Propertd: A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: X CONDITIONED spaces	INDOOR LIGHTING CONTROLS CEC-NROCL-LT-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls Project Name: DLX8 A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.) YES NO Control Requirements Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9. Lighting shall be controlled by a lighting control system or energy management control system in accordance with \$110.9. An Installation Certificate	CECHROCALTIO-IL (Revised OW16) CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: DLX8 Date Prepared: 11/04/19
CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Ligh ting Power Allowance (Page 1 of 4) Project Name: DLX8 A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: CONDITIONED spaces UNCONDITIONED spaces If using Complete Building Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts (a) (b) O1 Complete Building Method Allowed Watts. Documented in section B of NRCC- LTI- 03 - E (below on this page)	CECNRICC_LTI-03-E [Revised QM16] CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance Project Name: DLX8 A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: CONDITIONED spaces UNCONDITIONED spaces UNCONDITIONED spaces C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE - Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E Separately list lighting for each primary function area as defined in §100.1 of the Standards. O1 AREA CATEGORY (From §14 O.6 Table 14 O.6 Table 14 O.6 C) WATTS ALLOWED	INDOOR LIGHTING CONTROLS CEC-NIFCC-LTI-DZE (Revised 0116) CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls Project Name: DLX8 A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.) YES NO Control Requirements O Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9. Lighting shall be controlled by a lighting control system or energy management control system in accordance with \$110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).	CECHRICCLTI-01-E (Revised OH16) CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: DLX8 Date Prepared: 11/04/19 E. Declaration of Required Certificates of Acceptance Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.) YES NO FORM/TITLE NRCA- LTI- 02 - A - Must be submitted for occupancy sensors and automatic time switch controls.
CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Ligh ting Power Allowance (Page 1 of 4) Project Name: DLX8 A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: CONDITIONED spaces UNCONDITIONED spaces I UNCONDITIONED spaces I unconditioned Spaces. This page is only for: If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts. If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts. O1 Complete Building Method Allowed Watts. Documented in section B of NRCC - LTI- 03 - E (below on this page) O2 Area Category Method Allowed Watts. Documented in section C - 1 of NRCC - LTI- 03 - E (below on this page) O3 Tailored Method Allowed Watts. Documented in section C - 1 of NRCC - LTI- 04 - E	CECNRICCLTI-03-E [Revised OM/16] CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance Project Name: DLX8 A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: CONDITIONED spaces UNCONDITIONED spaces UNCONDITIONED spaces C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE - Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E. Separately list lighting for each primary function area as defined in §100.1 of the Standards. O1 AREA CATEGORY (From §14 0.6 Table 14 0.6 - C) Location in Building Primary Function Area per Table 140.6 - C PER ft 2 X AREA (ft) 2 = WATTS	INDOOR LIGHTING CONTROLS CECNRICCLTI-02E (Revised 01/16) CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls Project Name: DLX8 A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.) YES NO Control Requirements NO Control Requirements Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9. Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b). One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130. Additionally, an Installation Certificate Panal shall be installed in accordance with Section 130.0 (b).	CECHRICCLTI-01-E (Revised OW16) CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: DLX8 Date Prepared: DLX9 E. Declaration of Required Certificates of Acceptance Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.) YES NO FORM/TITLE NRCA- LTI- 02 - A- Must be submitted for occupancy sensors and automatic time switch controls. NRCA- LTI- 03 - A- Must be submitted for automatic daylight controls. NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.
CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Ligh ting Power Allowance (Page 1 of 4) Project Name: DLX8 A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: CONDITIONED spaces UNCONDITIONED spaces I UNCONDITIONED spaces I unconditioned Spaces. This page is only for: If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts. If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts O1 Complete Building Method Allowed Watts. Documented in section B of NRCC - LTI - 03 - E (below on this page) O2 Area Category Method Allowed Watts. Documented in section C - 1 of NRCC - LTI - 03 - E (below on this page) O2 Area Category Method Allowed Watts. Documented in section C - 1 of NRCC - LTI - 03 - E (below on this page) O2 Area Category Method Allowed Watts. Documented in section C - 1 of NRCC - LTI - 03 - E (below on this page)	CECNRECULTIO3E (Revised DHIRS) CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance Certificate of Compliance - Indoor Lighting Power Allowance Project Name: DLX8 A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: CONDITIONED spaces UNCONDITIONED spaces UNCONDITIONED Spaces C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE - Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E. Separately list lighting for each primary function area as defined in §100.1 of the Standards. O1 AREA CATEGORY (From §14 0.6 Table 14 0.6 - C) Location in Building Primary Function Area per Table 140.6 - C PER ft 2 X AREA (ft) 2 WATTS PRIVATE OFFICES OPEN OFFICE OFFICE>250SF 1.0 358 358 OPEN OFFICE STORAGE & RESTROOM STORAGE & RESTROOM STORAGE & RESTROOM STORAGE & RESTROOM STORAGE & RESTROOM STORAGE & RESTROOM STORAGE & RESTROOM	INDOOR LIGHTING LIGHTING CONTROLS CECNTICALTI-02: [Revised 01/16] CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls Project Name: DLX8 A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.) YES NO Control Requirements Uphting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9. Uphting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b). One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b). A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 130.4(b). A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 130.4(b).	CECNRICCLITI-01-E (Revised MINS) CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: DLX8 Date Prepared: 11/04/19 E. Declaration of Required Certificates of Acceptance Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.) YES NO FORM/TITLE NRCA- LTI- 02 - A- Must be submitted for occupancy sensors and automatic time switch controls. Prield Inspector NRCA- LTI- 03 - A- Must be submitted for automatic daylight controls. NRCA-LTI-04-A- Must be submitted for demand responsive lighting controls. NRCA-LTI-05-A- Must be submitted for institutional tuning power adjustment factor (PAF). A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for: CONDITIONED SPACE UNCONDITIONED SPACE UNCONDITIONED SPACE F. Indoor Lighting Schedule and Field Inspection Energy Checklist
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18831 bardeen avenue - ste. #100 irvine, ca tel: 949 •863 •1770 fax: 949 • 863 • 0851 email: hpa@hparchs.com

Owner:

Project:

DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

THIENES Structural: Mechanical: Plumbing: Electrical: Landscape: HUNTER LANDSCAPE Fire Protection:

Title: INDOOR TITLE

Soils Engineer:

Project Number: Drawn by: 10/24/19 Date: Revision:



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DLXB COLIMENTATION AUTHOR'S DECLARATION STATE MENT Learthy that this Certificate of Compliance documentation is accurate and complete. Commentation Author Name: LAN V NGUYEN CEA Certification for the Compliance documentation is accurate and complete. Commentation Author Synature. CEA Certification (if applicable) E—15596 Phone: 102 DISCOVERY CEA Certification (if applicable) E—15596 Phone: 949—450—1229 SSPONSIBLE PERSONS DECLARATIONS TATEMENT certify the following under penalty of pellury under the laws of the State of California: The information provided on this Certificate of Compliance is true and correct. In the entry feature and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 2-k Part 1 and Part 6 of the California Conformia to the representation in the california Conformia to the california Conformia to the california Conformia to the california Conformia to the california Conformia to the california Conformia to the california Conformia to the california Conformia to the california Conformia to the california Conformia to the california Conformia to the california Conformia to the california Conformia to the california Conformia to the california Conformia to the california Conformia california Conform	DOCUMENTATION AUTHOR'S DECLARATION STATE MENT 1. Leartify that this Cartificate of Corregiance documentation is accurate and complete. Documentation Author Name LAN V NOUVEN Consensor: RPM ENGINEERS INC. Signature Date: 11/04/19 Consensor: RESPONSIBLE PERSON'S DECLARATION STATEMENT 1. Leartify that the Society of person, under the least of the State of California: 1. The Information provided on this Certificate of Corregiance is the and correct. 2. I am eighbe under Division of the Business and Professions Code to accept presponsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The entering states and performance specifications, materials, comproments, and manufactured devices for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The entering statures and performance specifications, materials, comproments, and manufactured devices for the building design or system design identified on this Certificate of Compliance (responsible designer). 4. The building design performance specifications, submitted to the enteringeneer and performance specifications submitted to the enteringeneer and performance available to the requirements of the 2A Part and Part of the California Code of Regulations. 4. The building design device of the California Code of Regulations and the state of the compliance is required to be included with the documents and provided in the device of the compliance of the california code of Regulations. First the state that a complete signed copy of the California Code of Regulations. 1. In the internation of the California Code of Regulations. 2. In the internation of the California Code of Regulations. 3. In the internation of the California Code of Regulations. 4. The building design device of the California Code of Regulations. 5. I will result the state of the California Code of Regulations. 6. In the internation of the California Code of Regulations. 7.	Tourisher DLXB DLXB Dux Present 11/04/19 Dux Present 11/04/19 Dux Present 11/04/19 Dux Present 11/04/19 Dux Present 11/04/19 Dux Present 11/04/19 Dux Present 11/04/19 Dux Present 11/04/19 Dux Present 11/04/19 Dux Present 11/04/19 Dux Present 11/04/19 Dux Present 11/04/19 Dux Present 11/04/19 Dux Present 11/04/19 Dux Present 11/
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OUTDOOR LIGHTING CEC-NRCCLTO-1: (Revised 04/16) CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-LTO-01-E
Outdoor Lighting	(Page 1 of 4)
Project Name: DLX8	Date Prepared: 11/04/19
A. General Information	
Project Address : 515 E. DYER ROAD. SANTA ANA,CA 92707	Total Illuminated Hardscape Area : 371,558 SF
Phase of Construction: New Construction Addition	Alteration
Outdoor Lighting Zone (LZ)	\(\begin{array}{c c c c c c c c c c c c c c c c c c c
The common state of the common set of the control o	
B. Lighting Compliance Documents (check box for each document included)	
For detailed instructions on the use of this and all Energy Efficiency Standards compliance Manual published by the California Energy Commission.	documents , refer to the Nonresidential
NRCC-LTO-01-E Certificate of Compliance NRCC-LTO-02-E Outdoor Lighting Controls Certificate of Compliance	
NRCC-LTO-03-E Outdoor Lighting Power Allowance Certificate of Complian	
NRCC-LTO-04-E Outdoor Lighting Existing Conditions Certificate of Complia	ance
C. Summary of Allowed Outdoor Lighting Power	Watts
Sum Total ALLOWED Outdoor Lighting Wattage from NRCC - LTO- 03 - E, page	1 18,517 W
Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC - LTO- 04, page 2	·
Complies ONLY if Installed (Box 02) d Allowed (Box 01)	
02 Sum Total INSTALLED Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3.	13,557
D. Declaration of Required Installation Certificates	locumente ere
Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance d completed and signed.)	ocuments are
IXI NRCI-LTO-01-E - Must be submitted for all buildings	☐ Field Inspector
X NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
E. Declaration of Required Certificates of Acceptance Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify con	npliance documents
are completed and signed.) XINRCA-LTO-02-A - Must be submitted for outdoor lighting controls.	Field Inspector
MINONE OF THE MALE OF COLORS IN COLO	
F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirement 01 02	ents in §140.7
Name or Symbol Description of exempt luminaire in accordance with	the exemptions
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance STATE OF CALIFORNIA OUTTOOR LIGHTING	April 2016
	April 2016 CALIFORNIA ENERGY COMMISSION NRCC-LTO-01-E
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	Luminaire Schedule		Ins	stalled Watt	S		Location	Cutoff	Inspe	
01	02	03	04	4	05	06	07	08	C	19
			How wattag							
Name or			determ	inea		Total Installed Watts in this area (03 x 05)	Primary Function area in			
Name or Item Tag	Complete Luminaire Description	_ a	불	p	ot	tallec	which these luminaires are installed	BUG Rating	Pass	Fail
		Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number of Luminaires	al Ins tts in x 05)	(Outdoor Lighting Zone)			
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****					40			UH:		
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	TOSOTIA BRIVER			X			Lioitiiko	FVH: BVH:	0	0
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	WITH 1050mA DRIVER, TYPE 4 DISTRIBUTION			N N		Ì	LIGHTING	FVH:	0	0
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S3	POLE MOUNTED LED FIXTURE	624			3	1872	PARKING LOT	UL:	1	
	WITH 1050mA DRIVER, TYPE 3		_			1	LIGHTING	FVH:		
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18831 bardeen avenue - ste. #100 irvine, ca tel: 949 •863 •1770 fax: 949 • 863 • 0851 email: hpa@hparchs.com



Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

THIENES Structural: Mechanical: Plumbing: Electrical: Landscape: HUNTER LANDSCAPE Fire Protection: Soils Engineer:

INDOOR TITLE

Project Number: Drawn by: Date: Revision:

SIEES OF ALL DISTING PULLBRING AD INFORM THE ARCHITECT OF ANY DISCREPANCIES. FOR EMACT OPECLOCATIONS, REFER TO ARCHITECTURAL DRAWINS. ACCUPATE AS POLITIC DRAWINGS SHALL BE MOD BUSING CONSTRUCTION ACCUPATE AS POLITIC DRAWINGS SHALL BE INSULATED FOR COST OF STALLATION. ALL HOT WATER PIPMO SHALL BE INSULATED FOR COS 609-11-ALSO SEE CALIFORNIA EMERGY CODE TABLE 1200-2-A. WATER HEATERS SHALL BE CERTIFIED BY ITS MANUFACTURER TO COMPLY WITH THE PHYCHENY STANDARDOS OF THE CALIFORNIA PIRKOY COMMISSION, 70-16 EDITE THE CONTROLORS SHALL BE CERTIFIED BY ITS MANUFACTURER TO COMPLY WITH THE PHYCHENY STANDARDOS OF THE CALIFORNIA PIRKOY COMMISSION, 70-16 EDITE THE CONTROLORS SHALL DRIVEN ALL MATERIAS, LABOR, COMPRENT, TRANSPORTATION AND SELEVANCE NECESSARY TOR COMMISSION, 10-16 EDITE THE CONTROLORS SHAP TOR COMMISSION, 10-16 EDITE THE STANDARDS ARE DEARMANG. THE CONTROLORS SHALL BY RESPONSE FOR ELOCATION AND STATE JURISOCICIAN. AND COMPRING FOR COMPLY AND STATE JURISOCICIAN WITH ALL OTHER THARES. THIS INCLUDES CORROWNING THE LOCATION AND STATE JURISOCICIAN WITH ALL OTHER THARES. THIS INCLUDES CORROWNING THE LOCATION AND STATE JURISOCICIAN WITH ALL OTHER THARES. SIGNOR ARCHITECTURE SHAP LINE AND THARES. THIS INCLUDES CORROWNING THE LOCATION AND STATE JURISOCICIAN WITH ALL OTHER THARES. SIGNOR ARCHITECTURE SHAP LINE AND THARES. SIGNOR ALL CONDENSATE DRAIN PIPMO MINIMUM OF 1%. ALL CONCECALED PIPMO SHAMMAND OF 22. SLOPE ALL STANDARD SHAP LINE SHAP		FOR EXACT SPECIFICATIONS, MOUNTING HEIGHTS, AND LOCATIONS OF ALL PLUMBING FIXTURES, REFER TO ARCHITECTURAL DRAWINGS.
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PLUMBING CODE FOR FIRES STOP PROTECTION. NO PIPING SHALL BE INSTALLED IN OR ON THE GROUND UNDER ANY BUILDING. STRUCTURE, OF FOUNDATION UNLESS INSTALLED IN GAS TIGHT CONDUIT IF PROTECTION TERMINATES OUTSIDE. THIS PROJECT SHALL COMPLY WITH THE 2016 EDITIONS OF THE CALIFORNIA PLUMBING CODE. WASTE & VENT DRAIN PIPING (ABOVE GRADE) SHALL BE AB&I SERVICE WEIGHT CAST IRON NO-HUB SOIL PIPE AND FITTINGS WITH NO-HUB CLAMPS TO CONFORM TO CISPI STANDARD 301.04a & 310.04 AND CLEARLY MARKED WITH THE CAST IRON SOIL PIPE INSTITUTE TRADEMARK, MANUFACTURER'S NAM AND COUNTRY OF ORIGIN. WASTE & VENT DRAIN PIPING (BELOW GRADE) SOIL, WASTE & VENT DRAIN PIPING SHALL BE SCHEDULE 40 ABS PIPE OR SCHEDULE 40 PVC SOLID CORE AND FITTINGS WITH CEMENTED JOINTS. WATER PIPING SHALL BE TYPE "L" ABOVE GRADE, HARD DRAWN COPPER TUBING, WITH WROUGHT COPPER FITTINGS, SOLDERED JOINTS. INSULATE ALL CONDENSATE DRAIN PIPING SHALL BE TYPE "L" ABOVE GRADE, LACK DRAIN PIPING SHALL BE TYPE "L" ABOVE GRADE, HARD DRAWN COPPER TUBING, WITH WROUGHT COPPER FITTINGS, SOLDERED JOINTS. INSULATE ALL CONDENSATE DRAIN PIPING WITHIN BUILDING INTERIOR. GAS PIPING (ABOVE GRADE) SHALL BE SCHEDULE 40 BLACK STEEL WITH WOG BLACK BANDED MALLEABLE IRON		
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SYMBOL	ABBREVIATION	DESCRIPTION
•	POC	POINT OF CONNECTION
	S OR W	SOIL OR WASTE ABOVE FLOOR
w	S OR W	SOIL OR WASTE BELOW GRADE OR FLOOR
v	V	VENT
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
	DN	PIPE DOWN
0	VTR	VENT THRU ROOF
$\overline{}$	COTG	CLEANOUT TO GRADE
-	FCO	FLOOR CLEANOUT
 	WCO	WALL CLEANOUT
— CD —	CD	CONDENSATE DRAIN
— G —	G	NATURAL GAS (7"W.C. LOW PRESSURE)
— MPG —	MPG	MEDIUM PRESSURE GAS (5 PSI) OR (1 PS
— GW ——	GW	GREASE WASTE
<u> </u>	IW	INDUSTRIAL WASTE
ICW	ICW	INDUSTRIAL COLD WATER
— IHW ——	IHW	INDUSTRIAL HOT WATER
	GPR	GAS PRESSURE REGULATOR
	AF	ABOVE FLOOR
	AP	ACCESS PANEL
	BG	BELOW GRADE
	BF	BELOW FLOOR
	(E)	EXISTING
	FFE	FINISH FLOOR ELEVATION
	HDR	HEADER
	ΙE	INVERT ELEVATION
	IW	INDIRECT WASTE
	SOV	SHUT-OFF VALVE
	TP	TRAP PRIMER LINE
	CFH	CUBIC FEET PER HOUR
	BTU/ HR	BRITISH UNITS PER HOUR
	TDL	TOTAL DEVELOPED LENGTH
	WHA	WATER HAMMER ARRESTER
	PSI	POUNDS PER SQUARE INCH
	(V.I.F.)	VERIFY IN FIELD (FOR EXACT LOCATION)
	WFU	WATER FIXTURE UNITS
	DFU	DRAINAGE FIXTURE UNITS
	DOM.	DOMESTIC
	T&P	TEMPERATURE & PRESSURE RELIEF
	OFD	OVERFLOW DRAIN
	СР	CIRCULATING PUMP
	GPR	GAS PRESSURE REGULATOR

	A 01/0TF	D.T.							
	A. SYSTE		TED CURRIN DR	FOCUPE	96	DCI			
				ESSURE ESSURE		PSI PSI			
	2				·	F3I			
		DEMAND = _	136 FU (FL	<u>USH_VALVE_</u>) =	<u>/4</u> GPM				
	B. FIXED	PRESSURE LOS	SSES:						
	(EXIST) 1	. <u>(E)2"</u> WAT	ER METER		=3	PSI			
	IS 975XL → 2		KFLOW PREVENTE	R	= 13.5	PSI			
(EXIST)) (NEW) 3	s. (N)3" cw	LOSS. 600 '	X <u>0.8</u> PSI/	′100'= 4.8	PSI			
			ESSURE AVAILABL		= 59.5	PSI			
WILKINS 500				I. PRV LOSS	•				
MEMIC OU			VAILABLE @ PRV		= 56	PSI			
				FT. X 0.43	= 4.3	— PSI			
				11. / 0.10					
		UM PRESSURE	•		=25				
D. AVAILABLE PRESSURE FOR PIPING LOSSES = 26.7 PSI									
	E. MAXIM	IUM DEVELOPED	PIPE LENGTH:						
				= <u>650</u> F	ਜ.				
	2	. FITTINGS ALL	OWANCE						
				= <u>780</u> F	Π.				
			LOSS PER 100						
	1	26.7	PSI /	780 FT	. X 100' = <u>3.</u>	<u>4 </u>			
		SIZING TABLE:							
	1	. PIPING USED) = <u>TYPE "L"</u>	COPPER					
	2	. MAXIMUM VEI	LOCITY ALLOWED:	CW =	8 FPS, HW =	5 FPS			
	PIPE SIZE	CW FLOW	CW MAX FIXTU	RE UNITS	HW FLOW	HW MAX			
	(INCH)	RATE (GPM)	FV	TANK	RATE (GPM)	FU			
	1/2	0		0	0	0			

PIPE SIZE	CW FLOW	CW MAX FIXTU	ire units	HW FLOW	HW MAX
(INCH)	RATE (GPM)	FV	TANK	RATE (GPM)	FU
1/2	0		0	0	0
3/4	4		4	4	4
1	9		12	9	12
1-1/4	17		24	17	24
1-1/2	27	10	46	27	46
2	34	63	155	48	119
2-1/2	100	245	380	74	245
3	155	596	665	105	406

WATER PRESSURE CALCULATIONS

PLUMBING LEGEND

	01111 00	OUNT, (FU)						
AMAZON T.I.	OLIANITITY	CPC 2016 PUBLIC USE PER TABLE 702 AND APPENDIX 'A' TABLE A 103.1							
FIXTURE TYPE	QUANTITY	(WFU'S) W FIXTURE U	ater Jnits	(DFU'S) DRAINAGE FIXTURE UNITS					
WATER CLOSET (FLUSH VALVE)	18	x 5 (EA)	= 90	x 4 (EA)	= 73				
URINALS (FLUSH VALVE)	4	x 4 (EA)	= 16	x 2 (EA)	= 8				
LAVATORY	16	x 1 (EA)	= 16	x 1 (EA)	= 10				
MOP SINK	1	x 3 (EA)	= 3	x 3 (EA)	= 3				
SINK	3	x 1.5 (EA)	= 4.5	x 2 (EA)	= 6				
1st HOSE BIB	1	x 2.5 (EA)	= 2.5	x 0 (EA)	= C				
ADD'L HOSE BIB	1	x 1 (EA)	= 1	x 0 (EA)	= C				
DRINKING FOUNTAIN	4	x 0.5 (EA)	= 2	x 0.5(EA)	= 2				
WATER COOLERS	6	x 0.5 (EA)	= 3	x 0.5(EA)	= 3				
FLOOR DRAINS (EMERGENCY)	7	x 0 (EA)	= 0	x 0 (EA)	= 0				
CATCH BASIN (SCRUBBER DUMP)	1	x 0 (EA)	= 0	x 8 (EA)	= 8				
FLOOR SINK (ICE MAKER)	1	x 0 (EA)	= 0	x 2 (EA)	= 2				
		•							
	TOTA	L	138		120				
		GPM ——	74						

MAXIMUM VE	LOCITY ALLOWED:	CW =	= 8 FPS, HW =	5 FPS		
W FLOW	OW CW MAX FIXTURE UNITS HW FLOW HW MAX		HW MAX	GAS PRESSURE REGULATOR (GPR-1):		
TE (GPM)	FV	TANK	RATE (GPM)	FU	AMERICAN METER CO. 3/4" 1800C SERIES, MODEL 1843C REGULATOR WITH 5/16" ORIFICE AND 6" TO 12" PRESSURE SPRING 70017P137. 5PSI W/ 1.5 PSI INLET PRESSURE TO	
0		0	0	0	STANDARD LOW PRESSURE OUTLET. 325 CFH MAXIMUM CAPACITY. WITH OVERPRESSURE SHUT—OFF AND 3/4" OR 1" NPT VENT. UNIT SHALL BE LISTED PER CSA Z21.30.	
4		4	4	4	SHUT-OFF AND 3/4" OR 1" NPT VENT. UNIT SHALL BE LISTED PER CSA Z21.30.	
9		12	9	12	GAS PRESSURE REGULATOR (GPR-1):	
17		24	17	24	AMERICAN METER CO. 3/4" 1800C SERIES. MODEL 1843C REGULATOR WITH 5/16" ORIFICE	
27	10	46	27	46	AND 6" TO 12" PRESSURE SPRING 70017P137. 5PSI W/ 1.5 PSI INLET PRESSURE TO	
34	63	155	48	119	STANDARD LOW PRESSURE OUTLET. 500 CFH MAXIMUM CAPACITY. WITH OVERPRESSURE SHUT-OFF AND 3/4" OR 1" NPT VENT. UNIT SHALL BE LISTED PER CSA Z21.30.	
100	245	380	74	245		
155	596	665	105	406	MIXING VALVE (TMV-1): (SET TO 105°F MAX)	
					POINT OF USE THERMOSTATIC MIXING VALVE BRADLEY #S59-400A, SET TO 105°F, 110° MAX, LEAD FREE BRONZE BODY, MINIMUM FLOW: 0.5 GPM, ASSE 1070.	

<u>WATER CLOSET (WC-1)</u> (ADA COMPLIANT)

FLOOR SINK (FS-1)

TRAP PRIMER (TP-1):

<u>CATCH BASIN (CB-1):</u>

SAND AND OIL INTERCEPTOR (SOI-1):

SITE. DOES NOT INCLUDE OUTLET PART.

<u>DUAL CHECK VALVE (DCV-1):</u> (ICE MACHINE)

3/4" = MODEL# SC-750 (12-32) FIXTURE UNITS

1" = MODEL# SC-1000 (33-60) FIXTURE UNITS

JOSAM 58656 SERIES SQUARE STAINLESS STEEL ACCESS

FRAME, ANCHOR SLOTS AND HINGED SMOOTH SECURED COVER

PRECISION PLUMBING PRODUCTS

ACCESS PANELS (AP):

WATTS NO. SD-3 SIZE 3/8", ASSE 1022 APPROVED DUAL CHECK

WITH ATMOSPHERIC PORT DESIGN FOR PROTECTION OF THE WATER SUPPLY FROM

SEDIMENT BUCKET PART OF (CB-1):

<u>HOSE BIBB (HB-1):</u>

CECO #906-2", 12"x12"x6" DEEP, ACID-RESISTING ENAMEL ON CAST

IRON, NO-HUB OUTLET. PROVIDE PART GRATE FOR DISCHARGE PIPES.

MIFAB M2-5000-NPB, TRAP SEAL PRIMER, LEAD FREE. SERVES UP TO 3 DRAINS.

WOODFORD B24-P-3/4. HOSE BIBB WITH NON-REMOVEABLE VACUUM BREAKER, ASSE 1011.

JENSEN PRECAST KJP-320SO, 320 GALLON, 2-COMPARTMENT CONCRETE STRUCTURE, H-20 TRAFFIC RATED, 24" CAST IRON FRAME AND COVER WITH GASKET, GAS TIGHT, RISERS AS NEEDED. JENSEN 2432-X SAMPLE BOX, 24" WIDE WITH FRAME AND COVER AND GASKET, H-20 TRAFFIC RATED.

MEA-JOSAM CATCH BASIN 20"x24" #PPCB-2024-DI WITH DUCTILE IRON FRAME ON TOP BOX IS MADE OF GRP MATERIAL. CHANNEL CUTOUT PROFILE(S) TO BE DONE ON

TWO SEDIMENT BUCKETS IN EVERY CATCH BASIN. STAINLESS STEEL MATERIAL

SEDIMENT BUCKET TO FIT INSIDE OF PPCB-2024 CATCH BASIN. USE

CARBON DIOXIDE GAS & CARBONATED WATER. 316 STAINLESS STEEL BODY CONSTRUCTION. WATER HAMMER ARRESTERS (WHA):

<u>WATER CLOSET (WC-1)</u> (ADA COMPLIANT) KOHLER K-4325 "KINGSTON" HIGH EFFICIENCY, 1.28 GPF WALL MOUNTED VITREOUS CHINA,			СС	NNEC	TION	SIZE	 :S		
SIPHON JET ACTION ELONGATED BOWL. SLOAN OPTIMA PLUS 8111-1.28, 1.28 GPF, EXPOSED BATTERY SENSOR FLUSH VALVE WITH VACUUM BREAKER. OLSONITE 10CC OPEN FRONT SOLID PLASTIC WHITE SEAT. PROVIDE JOSAM (SINGLE) OR 12724 WALL CARRIER. MOUNT AT ADA USE	UNIT NO.	DESCRIPTION	TRAP	W	٧	CW	HW	REMARKS	
HEIGHT. WATER CLOSET (WC-2): (STANDARD HEIGHT)	WC-1	WATER CLOSET	INT.	4"	2"	1"		WALL MOUNTED SENSOR F.V. (1.28 GPF) ADA USE HEIGHT	
KOHLER K-4325 "KINGSTON" HIGH EFFICIENCY, 1.28 GPF WALL MOUNTED VITREOUS CHINA, SIPHON JET ACTION ELONGATED BOWL. SLOAN OPTIMA PLUS 8111-1.28, 1.28 GPF, EXPOSED BATTERY SENSOR FLUSH VALVE WITH VACUUM BREAKER. OLSONITE 10CC OPEN FRONT SOLID PLASTIC WHITE SEAT. PROVIDE JOSAM (SINGLE) OR 12724 WALL CARRIER. MOUNT AT STANDARD USE HEIGHT.	WC-2	WATER CLOSET	INT.	4"	2"	1"		WALL MOUNTED SENSOR F.V. (1.28 GPF) STANDARD HEIGHT	
<u>URINAL (U-1):</u> (ADA COMPLIANT)	U-1	URINAL	INT	2"	2"	3/4"		WALL HUNG, SENSOR F.V. (0.125 GPF) ADA—COMPLIANT	
KOHLER K-5452-ET "DEXTER", 0.125 GPF ULTRA HIGH EFFICIENCY, WALL HUNG, VITREOUS CHINA WASHOUT FLUSH ACTION. SLOAN OPTIMA PLUS 8186-0.125, EXPOSED BATTERY SENSOR VALVE WITH VACUUM BREAKER. MOUNT AT ADA COMPLIANT HEIGHT.	L-1	LAVATORY	1½"	2"	2"	1/2"	1/2"	UNDER MOUNT (ADA) SENSOR FAUCET 0.20 GAL. PER USE	
<u>LAVATORY (L-1):</u> (ADA COMPLIANT) SLOAN SS-3001 OVAL UNDER COUNTER MOUNT LAVATORY, 19½"x16½" VITREOUS CHINA. CHICAGO	S-1	SINK	1½"	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT COUNTER MOUNTED.	
FAUCETS EQ-A12A-13ABCP BATTERY SENSOR FAUCET WITH 0.5 GPM VANDAL RESISTANT SPRAY HEAD, SINGLE SUPPLY, <u>THERMOSTATIC MIXING VALVE</u> SET TO 105°F (ASSE 1070). CHROME PLATED GRID DRAIN AND TAILPIECE, 17 GAUGE CHROME PLATED TUBULAR BRASS	S-2	SINK	1½"	2"	2"	1/2"	1/2"	DOUBLE COMPARTMENT COUNTER MOUNTED.	
P-TRAP, MCGUIRE LFH3165LKSS20 ANGLE STOPS AND SUPPLIES. COVER HOT WATER, TRAP, AND DRAIN PIPING WITH INSULATION TO PROTECT THE HANDICAPPED.	GD-1	GARBAGE DISPOSER	_	-	-			IN-SINK-ERATOR PRO 750 3/4 HP, 120V., 1ø., 60~ 9.5 AMPS	
SINK (S-1): ELKAY LRAD191865-PD, 19"x18"x6-1/2" DEEP, 18 GAUGE, TYPE 304 STAINLESS STEEL, ADA COMPLIANT, SINGLE COMPARTMENT SINK WITH SINGLE HOLE LEDGE DRILLING, CHICAGO FAUCETS 431ABCP, CHROME, SINGLE LEVER KITCHEN FAUCET, 1.5 GPM.	RWB-1	RECESSED WATER BOX				1/2"		GUY GRAY #M1B1HA, WITH WATER HAMMER ARRESTER.	
MCGUIRE LFH3165LKSS20 ANGLE STOPS AND SUPPLIES, 17 GAUGE TUBULAR BRASS CHROME PLATED P—TRAP & CONTINUOUS DRAIN.	MS-1	MOP SINK	3"	3"	2"	3/4"	3/4"	FLOOR MOUNT	
SINK (S-2): ELKAY LRAD331955-PD 33"x19"x5-1/2" DEEP, TOP MOUNT, 18 GAUGE TYPE 304 STAINLESS STEEL, ADA COMPLIANT DOUBLE COMPARTMENT SINK WITH 3-HOLE LEDGE DRILLING. CHICAGO FAUCETS 431ABCP 1.5 GPM CHROME SINGLE LEVER KITCHEN FAUCET. MCGUIRE LFH3165LKSS20 ANGLE	DF-1	DRINKING FOUNTAIN	1½"	2"	1½"	1/2"		HI-LO DUAL UNIT WALL MOUNT HANDICAP USE	
STOPS AND SUPPLIES, 17 GAUGE TUBULAR BRASS CHROME PLATED P-TRAP & CONTINUOUS DRAIN. GARBAGE DISPOSER (GD-1):	WH-1	ELECTRIC WATER HEATER				1"	1"	30 GAL., 6 KW, 480V. 3ø FLOOR MOUNT	
IN-SINK-ERATOR "PRO 750" EVOLUTION SERIES 3/4 HP, 120V., 60~, 1725 RPM. RECESSED WATER BOX (RWB-1): (REFRIGERATOR)	CP-1	HOT WATER CIRCULATION PUMP						115V., 1/6 HP, FLA: 2.1 AUTOMATIC TIMER KIT #TC-1	
GUY GRAY MODEL M1B1HA, 1/4 TURN VALVE WITH WATER HAMMER ARRESTER. MOP SINK (MS-1):	BV-1	BALACING VALVE					3/4"	CIRCUITSOLVER CSUA-3/4-120 NSF/ANSI 61 CERTIFIED	
CECO #871, 28"x28" ACID—RESISTING ENAMELED CAST IRON, CHICAGO 897—CP, WALL MOUNTED FAUCET WITH HOSE END, VACUUM BREAKER, WALL BRACE, BUCKET HOOK AND INTEGRAL STOPS, WITH FLAT CHROME STRAINER 871—3" P—TRAP. B—872 COATED RIM GUARD.	FD-1	FLOOR DRAIN	2"	2"	2"			JOSAM #30000-5A, WITH 5" BRONZE TOP, CAST IRON BODY.	
DRINKING FOUNTAIN (DF-1): OASIS PG8EBFSL DUAL PURPOSE STANDING AND WHEELCHAIR LEVEL HI-LO UNITS, WITH BOTTLE	FS-1	FLOOR SINK	2"	2"	2"			WITH TRAP PRIMER.	
FILLER, REFRIGERATED. PROVIDE STOP, SUPPLY, AND 8 GAUGE TUBULAR BRASS CHROME PLATED P-TRAP. MOUNT AT HANDICAP USE HEIGHT. ELECTRIC WATER HEATER (WH-1):	TP-1	TRAP PRIMER				1/2"		MIFAB M2-5000-NPB	
RHEEM ELDS30, 30 GALLON, 6 KW, 480V., 3¢ ELECTRIC WATER HEATER, 41 G.P.H. RECOVERY AT 60°F RISE 355 POUNDS OPERATING WEIGHT, COMPLETE WITH INSULATED STEEL JACKET, GLASS—LINED TANK, DRAIN VALVE WITH HOSE CONNECTION, TEMPERATURE CONTROLS. MANUFACTURER'S	S0-1	SAND & OIL INTERCEPTOR	4"	4"	2"			JENSEN PRECAST KJP-320SO, 320 GAL., WITH SAMPLE BOX.	
CERTIFICATION OF COMPLIANCE FOR TITLE 24 SHALL BE CAPABLE OF ADJUSTMENT FROM THE LOWEST TO HIGHEST TEMPERATURE SETTINGS FOR THE INTENDED USE AS LISTED IN TABLE 2 OF ASHRAE 2007 HANDBOOK AND PRODUCT DIRECTORY, HVAC APPLICATIONS VOLUME, CHAPTER 49.	CB-1	CATCH BASIN		4"	2"			JOSAM (PRO-PLUS) SERIES PPCB-2024-DI W/ SEDIMENT BUCKET	
CIRCULATING PUMP (CP-1): BELL & GOSSET MODEL#. PL-36B, PART# 101231LF,	GPR-1	GAS PRESSURE REGULATOR						AMERICAN METER 1843C MODEL REGULATOR 325 CFH MAX CAPACITY.	
3/4"FLANGE CONNECTION LEAD FREE, BRONZE BODY, 115V., 1/6 HP, FLA: 2.1, 5 GPM, AT 25' TDH. WITH AUTOMATIC TIMER KIT #TC-1	GPR-2	GAS PRESSURE REGULATOR						AMERICAN METER CO. 1800C SERIES MODEL 1843C 500 CFH MAX CAPACITY	
BALANCING VALVE (BV-1): CIRCUITSOLVER CSUA-3/4-120, THERMOSTATIC BALANCING VALVE, SET TO 120°F.	TMV-1	THERMOSTATIC MIXING VALVE				1/2"	1/2"	BRADLEY #S59-400A THERMOSTATIC MIXING VALVE. SET TO 108°F (5 GPM MAX)	
FLOOR DRAIN (FD-1): JOSAM 30000-5A CAST IRON BODY WITH FLASHING CLAMP, 5" ROUND NICKEL BRONZE STRAINER.	DCV-1	DUAL CHECK VALVE (ICE MACHINE)				3/8"		WATTS NO. SD-3 DUAL CHECK VALVE ASSE 1022 APPROVED	

PLUMBING FIXTURE SCHEDULE

FIXTURE TYPE

SHOWERHEADS

NONRESIDENTIAL

KITCHEN FAUCETS

WASH FOUNTAINS

METERING FAUCETS

METERING FAUCETS

GRAVITY TANK TYPE

FLUSHOMETER TANK

WATER CLOSETS

WATER CLOSETS

WATER CLOSETS

HYDRAULIC WATER CLOSETS

ELECTROMECHANICAL

(WASH FOUNTAINS)

LAVATORY FAUCETS

PLUMBING FIXTURES MUST COMPLY WITH

THE SPECIFIED CAL GREEN SECTION

TABLE 5.303.2.3.1 FIXTURE FLOW RATES

FLUSHOMETER VALVE 1.28 GALLONS/FLUSH

FLOW RATE

2 GPM @ 80 PSI

0.5 GPM @ 60 PSI

1.8 GPM @ 60 PSI

1.8 GPC/20 [RIM SPACE(IN.)] @60 PS

0.20 GALLONS/CYCLE

0.20 GPC/20 [RIM SPACE(IN.)] @60 PS

1.28 GALLONS/FLUSH

1.28 GALLONS/FLUSH

1.28 GALLONS/FLUSH

0.125 GALLONS/FLUSH

architecture hpa, inc. 18831 bardeen avenue - ste. #100 irvine, ca tel: 949 •863 •1770 fax: 949•863•0851 email: hpa@hparchs.com

Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

THIENES Structural: Mechanical: Plumbing: Electrical: Landscape: HUNTER LANDSCAPE Fire Protection:

Soils Engineer:

Title: PLUMBING NOTES, DETAILS SCHEDULES & SPECIFICATIONS

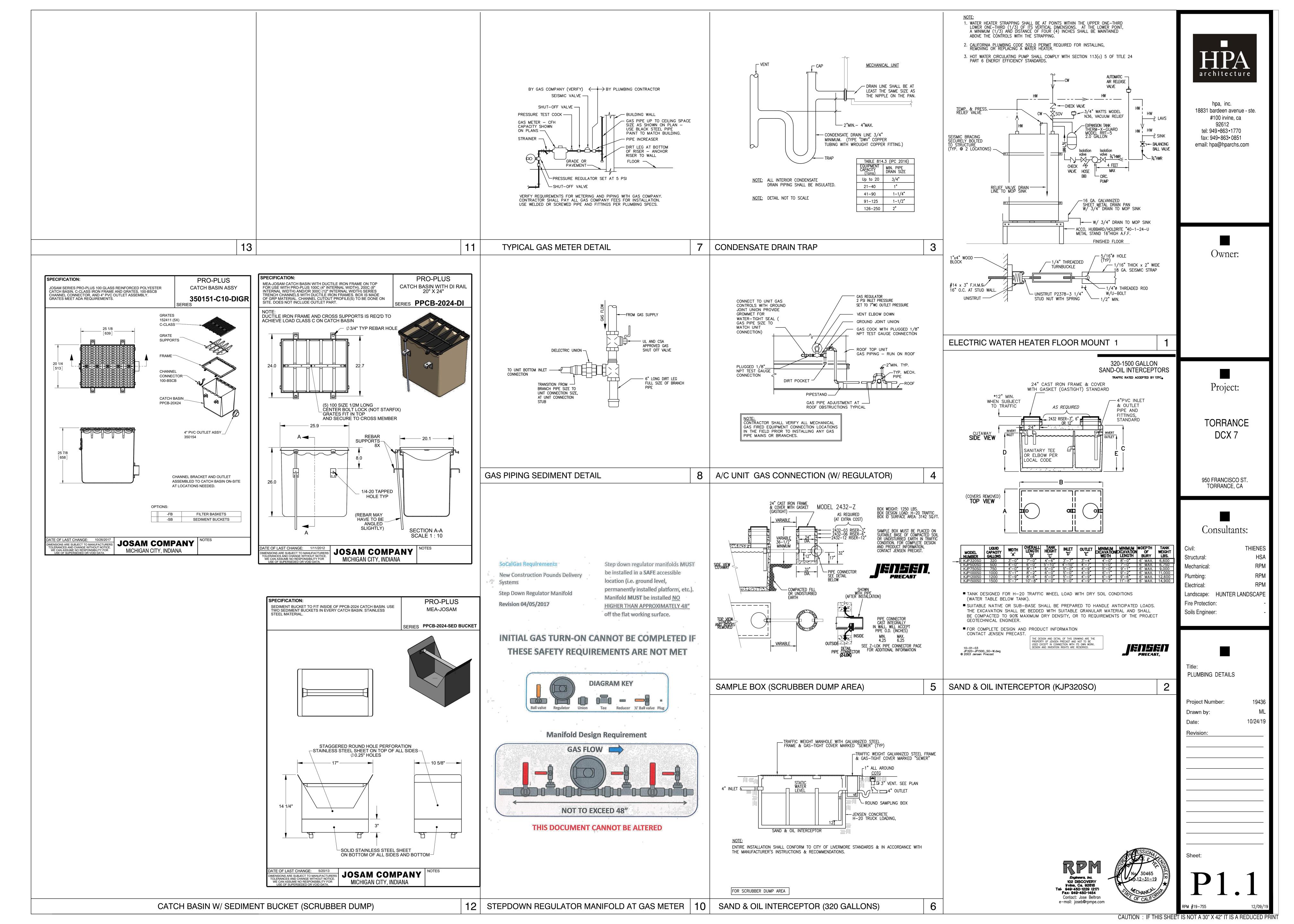
Project Number: Drawn by: 10/24/19 Date: Revision:

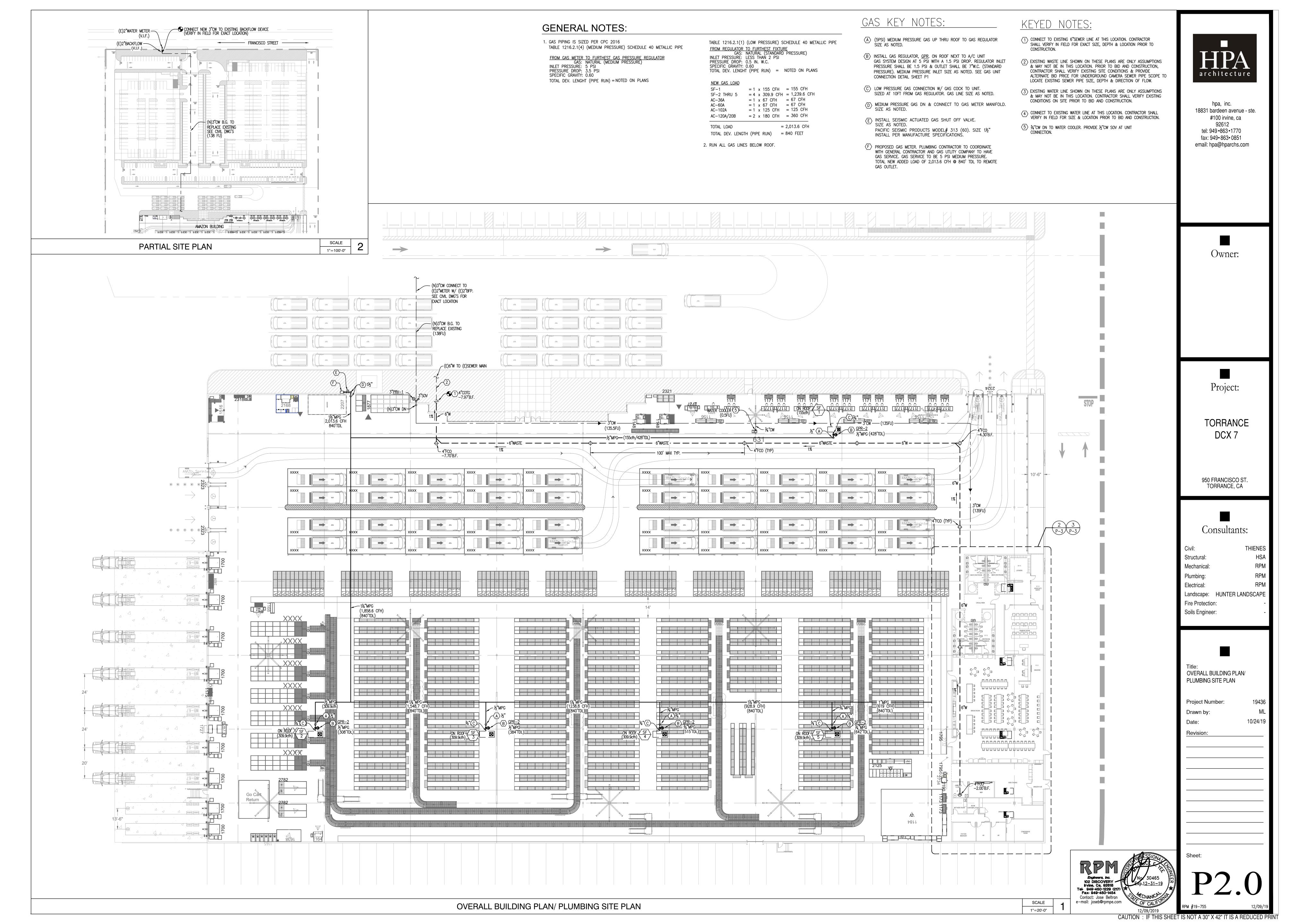
Engineers, Inc.
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Irvine, Ca. 92618
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Fax: 949-450-1454 Contact: Jose Beltran e-mail: joseb@rpmpe.com

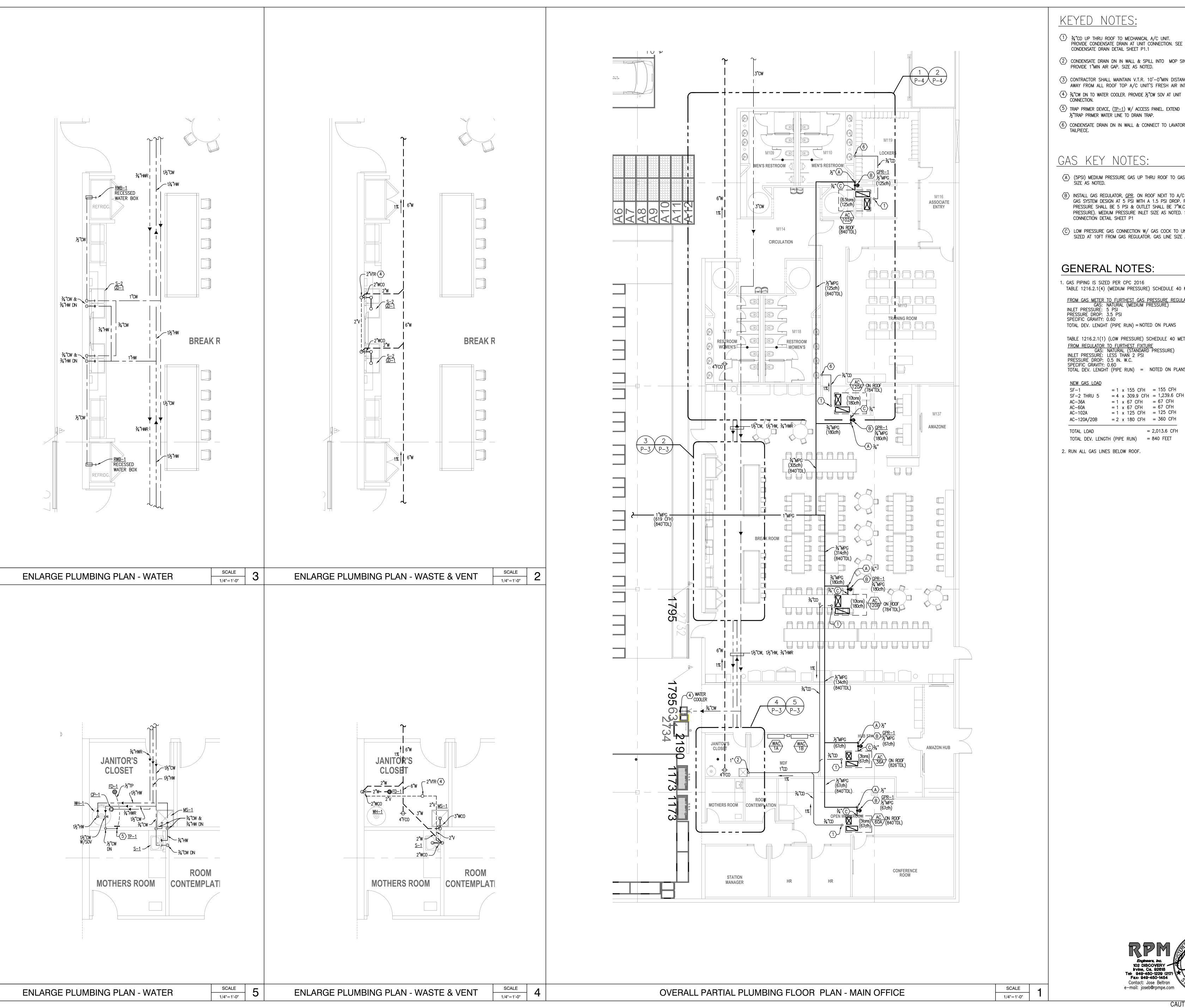
12/09/2019

FIXTURE UNIT COUNT, (FU) 6 PLUMBING FIXTURE SPECIFICATIONS

CAL GREEN REQUIREMENTS







- 34"CD UP THRU ROOF TO MECHANICAL A/C UNIT. PROVIDE CONDENSATE DRAIN AT UNIT CONNECTION. SEE CONDENSATE DRAIN DETAIL SHEET P1.1
- 2 CONDENSATE DRAIN DN IN WALL & SPILL INTO MOP SINK. PROVIDE 1"MIN AIR GAP. SIZE AS NOTED.
- (3) CONTRACTOR SHALL MAINTAIN V.T.R. 10'-0"MIN DISTANCE AWAY FROM ALL ROOF TOP A/C UNIT'S FRESH AIR INTAKE.
- $\overline{5}$ TRAP PRIMER DEVICE, $\overline{(1P-1)}$ W/ ACCESS PANEL. EXTEND
- ½"TRAP PRIMER WATER LINE TO DRAIN TRAP. 6 CONDENSATE DRAIN DN IN WALL & CONNECT TO LAVATORY TAILPIECE.

- (5PSI) MEDIUM PRESSURE GAS UP THRU ROOF TO GAS REGULATOR
- (B) INSTALL GAS REGULATOR, <u>GPR</u>. ON ROOF NEXT TO A/C UNIT GAS SYSTEM DESIGN AT 5 PSI WITH A 1.5 PSI DROP. REGULATOR INLET PRESSURE SHALL BE 5 PSI & OUTLET SHALL BE 7"W.C. (STANDARD PRESSURE). MEDIUM PRESSURE INLET SIZE AS NOTED. SEE GAS UNIT CONNECTION DETAIL SHEET P1
- (C) LOW PRESSURE GAS CONNECTION W/ GAS COCK TO UNIT. SIZED AT 10FT FROM GAS REGULATOR. GAS LINE SIZE AS NOTED.

GENERAL NOTES:

- 1. GAS PIPING IS SIZED PER CPC 2016 TABLE 1216.2.1(4) (MEDIUM PRESSURE) SCHEDULE 40 METALLIC PIPE FROM GAS METER TO FURTHEST GAS PRESSURE REGULATOR
 GAS: NATURAL (MEDIUM PRESSURE)
 INLET PRESSURE: 5 PSI
 PRESSURE DROP: 3.5 PSI
 CRESSURE DRAWTO. 0.00
- TOTAL DEV. LENGHT (PIPE RUN) = NOTED ON PLANS
- TABLE 1216.2.1(1) (LOW PRESSURE) SCHEDULE 40 METALLIC PIPE FROM REGULATOR TO FURTHEST FIXTURE

 GAS: NATURAL (STANDARD PRESSURE)

 INLET PRESSURE: LESS THAN 2 PSI

 PRESSURE DROP: 0.5 IN. W.C.
- SPECIFIC GRAVITY: 0.60
 TOTAL DEV. LENGHT (PIPE RUN) = NOTED ON PLANS
- $= 1 \times 155 \text{ CFH}$ = 155 CFHSF-2 THRU 5 = 4 x 309.9 CFH = 1,239.6 CFH $= 1 \times 67 \text{ CFH}$ = 67 CFH $= 1 \times 67 \text{ CFH}$ = 67 CFH $= 1 \times 125 \text{ CFH}$ = 125 CFH $AC-120A/20B = 2 \times 180 \text{ CFH} = 360 \text{ CFH}$
- = 2,013.6 CFH TOTAL DEV. LENGTH (PIPE RUN) = 840 FEET
- 2. RUN ALL GAS LINES BELOW ROOF.



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Project:

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950 FRANCISCO ST. TORRANCE, CA

Consultants:

Structural: Mechanical: Landscape: HUNTER LANDSCAPE

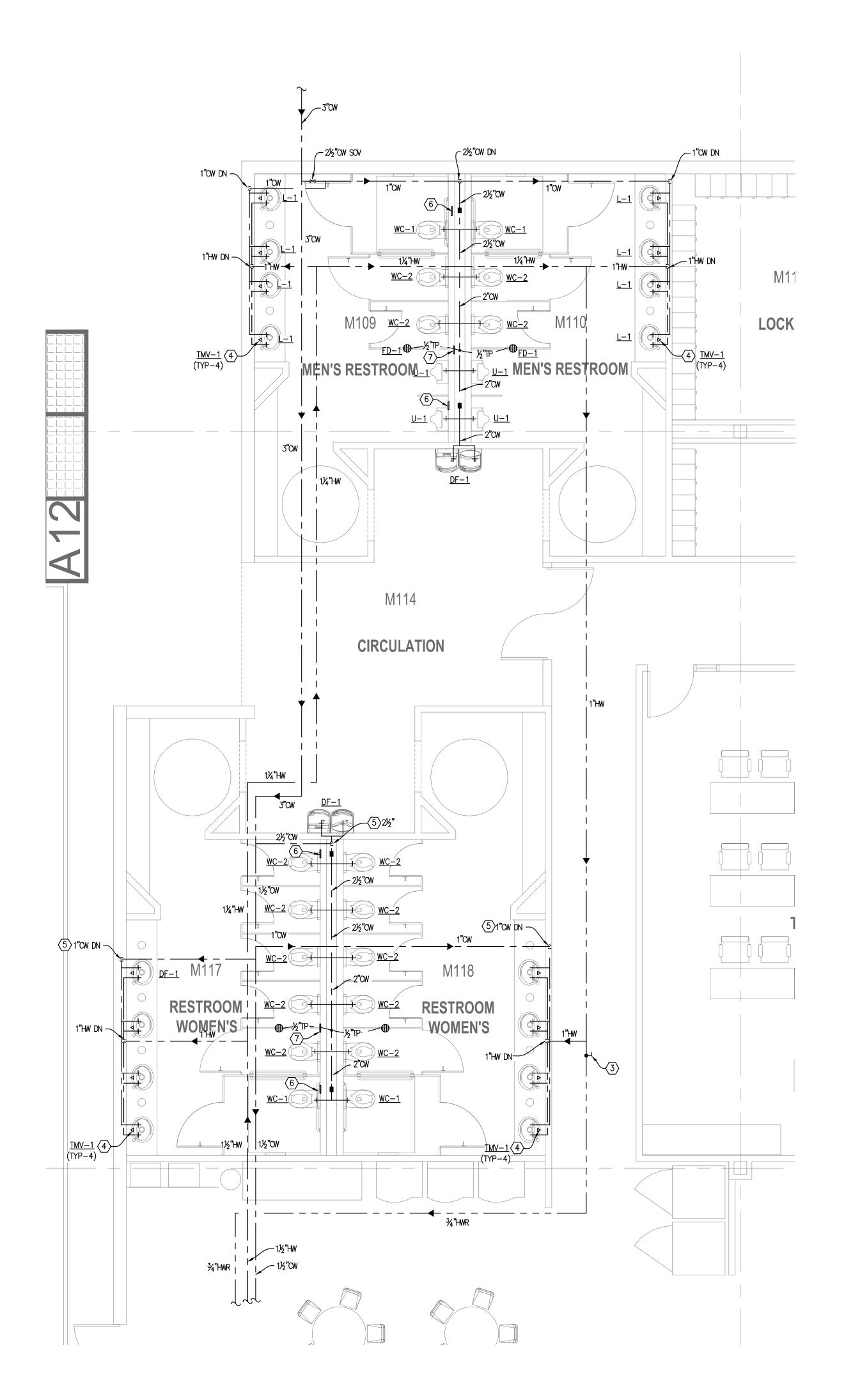
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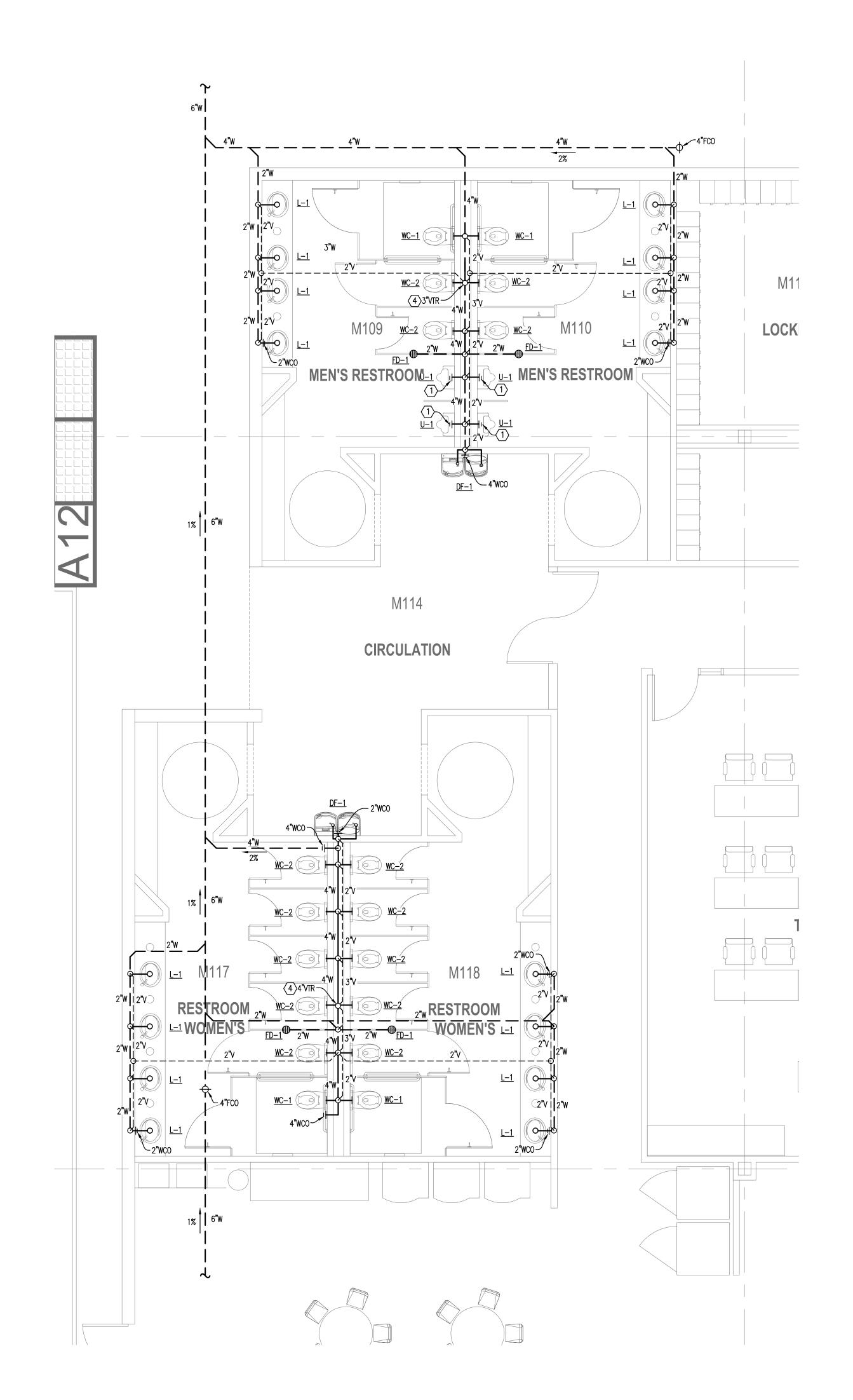
Project Number: Drawn by:

ENLARGE PLUMBING PLANS

Fire Protection:

Soils Engineer:





KEYED NOTES:

- 2"WALL CLEAN—OUT SHALL BE INSTALLED ABOVE THE FIXTURE CONNECTION FITTING, SERVING EACH URINAL, REGARDLESS OF THE LOCATION OF THE URINAL IN THE BUILDING. CPC 2016 707.4
- 2 CONTRACTOR SHALL MAINTAIN V.T.R. 10'-0"MIN DISTANCE AWAY FROM ALL ROOF TOP A/C UNIT'S FRESH AIR INTAKE.
- PROVIDE CIRCUIT SOLVER CS-3/4-120, THERMOSTATIC BALANCING VALVE, SET TO 120°F. OR APPROVED EQUAL. PROVIDE ACCESS PANEL OVER HARD LID CEILING.

 PROVIDE POINT OF USE THERMOSTATIC MIXING VALVE,
- (TMV-1) & SET TO 108°F MAX.
- COLD WATER DN IN WALL. PROVIDE SOV AT 5'-0" A.F.F. W/ ACCESS PANEL. WATER LINE SIZE AS NOTED.
- (6) WATER HAMMER ARRESTER (WHA) W/ ACCESS PANEL.

 (7) TRAP PRIMER DEVICE, (<u>TP-1</u>) W/ ACCESS PANEL. EXTEND

 ½"TRAP PRIMER WATER LINE TO DRAIN TRAP.



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Owner:

Project:

TORRANCE DCX 7

950 FRANCISCO ST. TORRANCE, CA

Consultants:

Civil: THIENES
Structural: HSA
Mechanical: RPM
Plumbing: RPM
Electrical: RPM
Landscape: HUNTER LANDSCAPE
Fire Protection: -

Soils Engineer:

Title: ENLARGE PLUMBING PLAN -

WATER WASTE & VENT

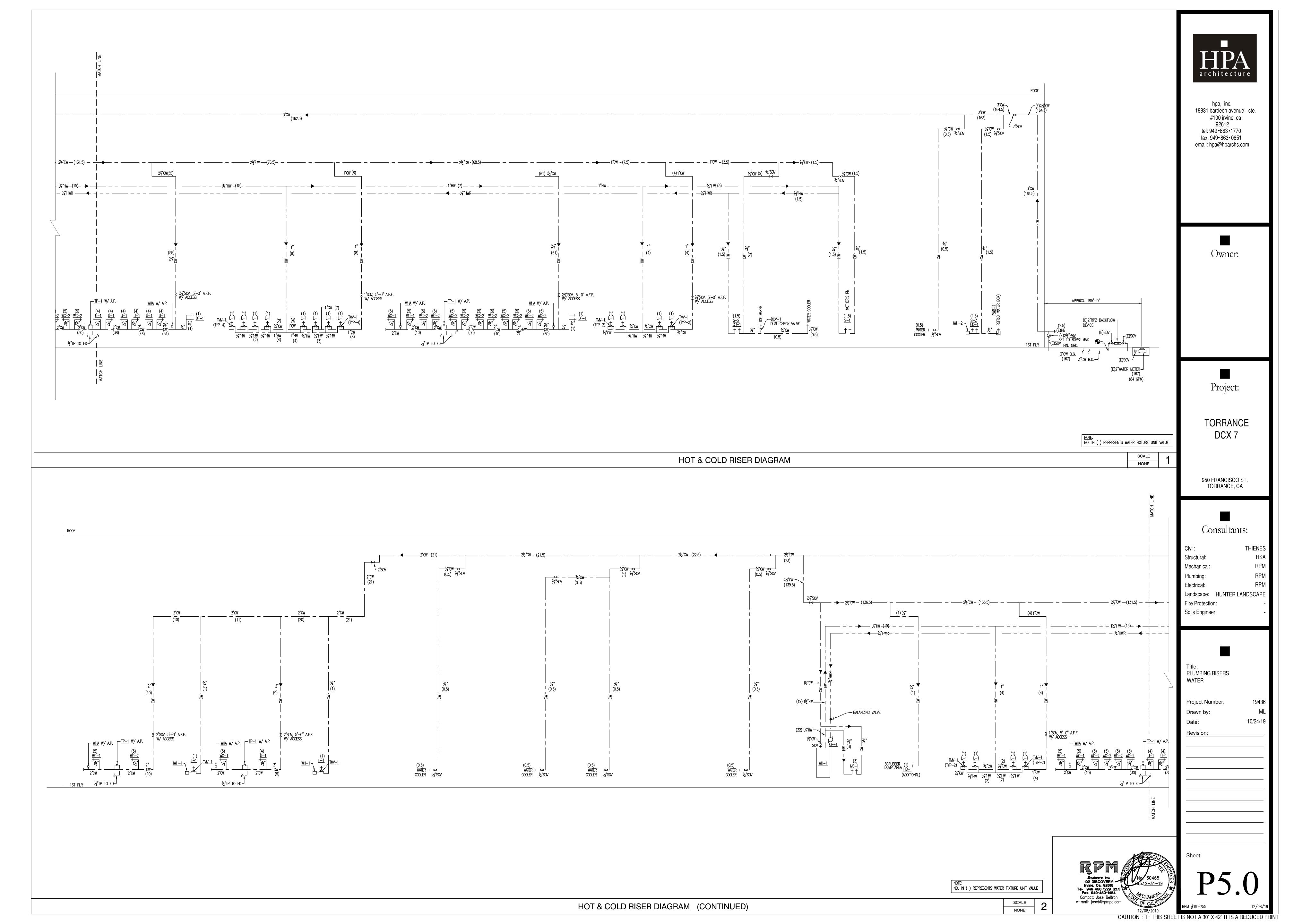
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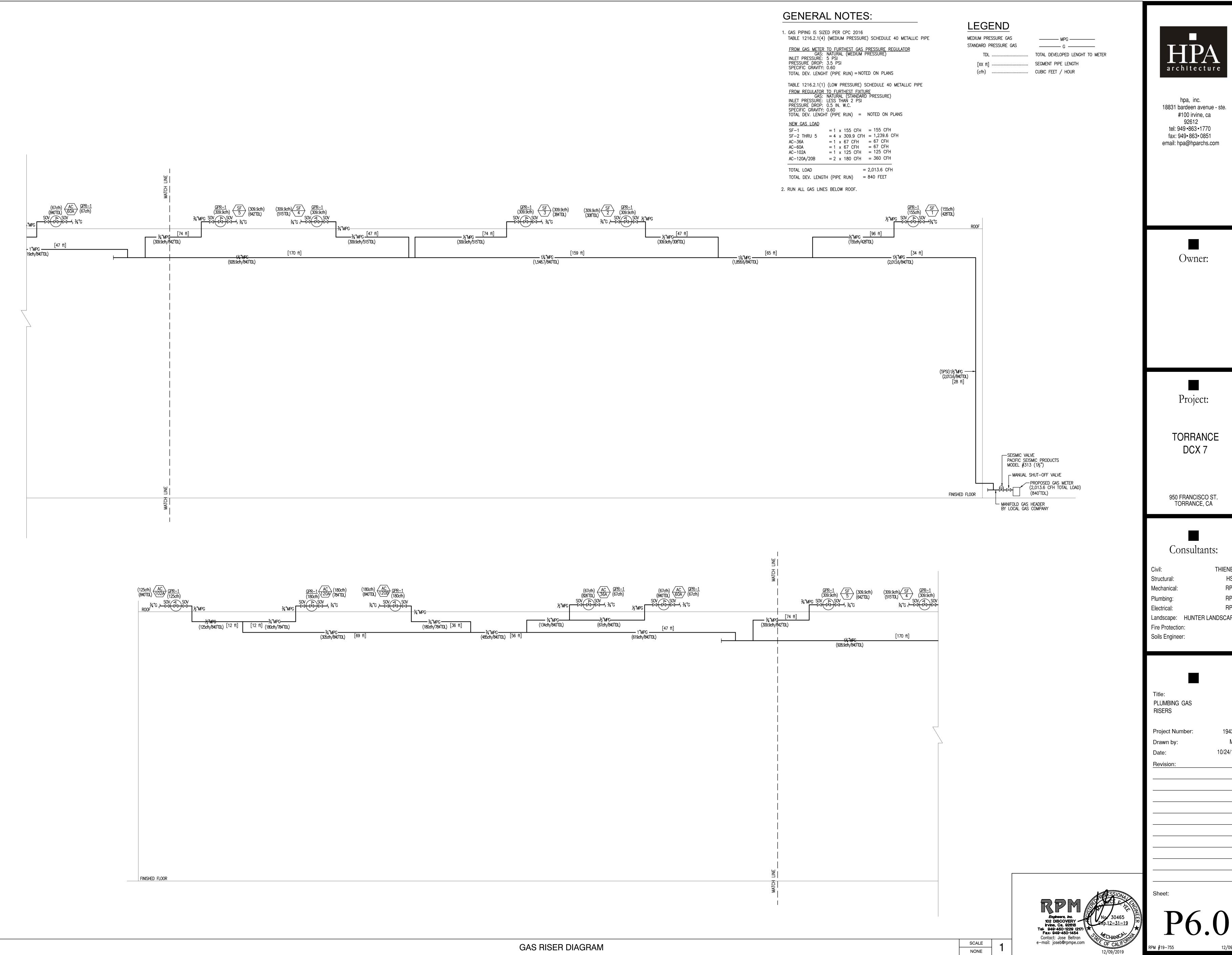
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Revisio

P4.0

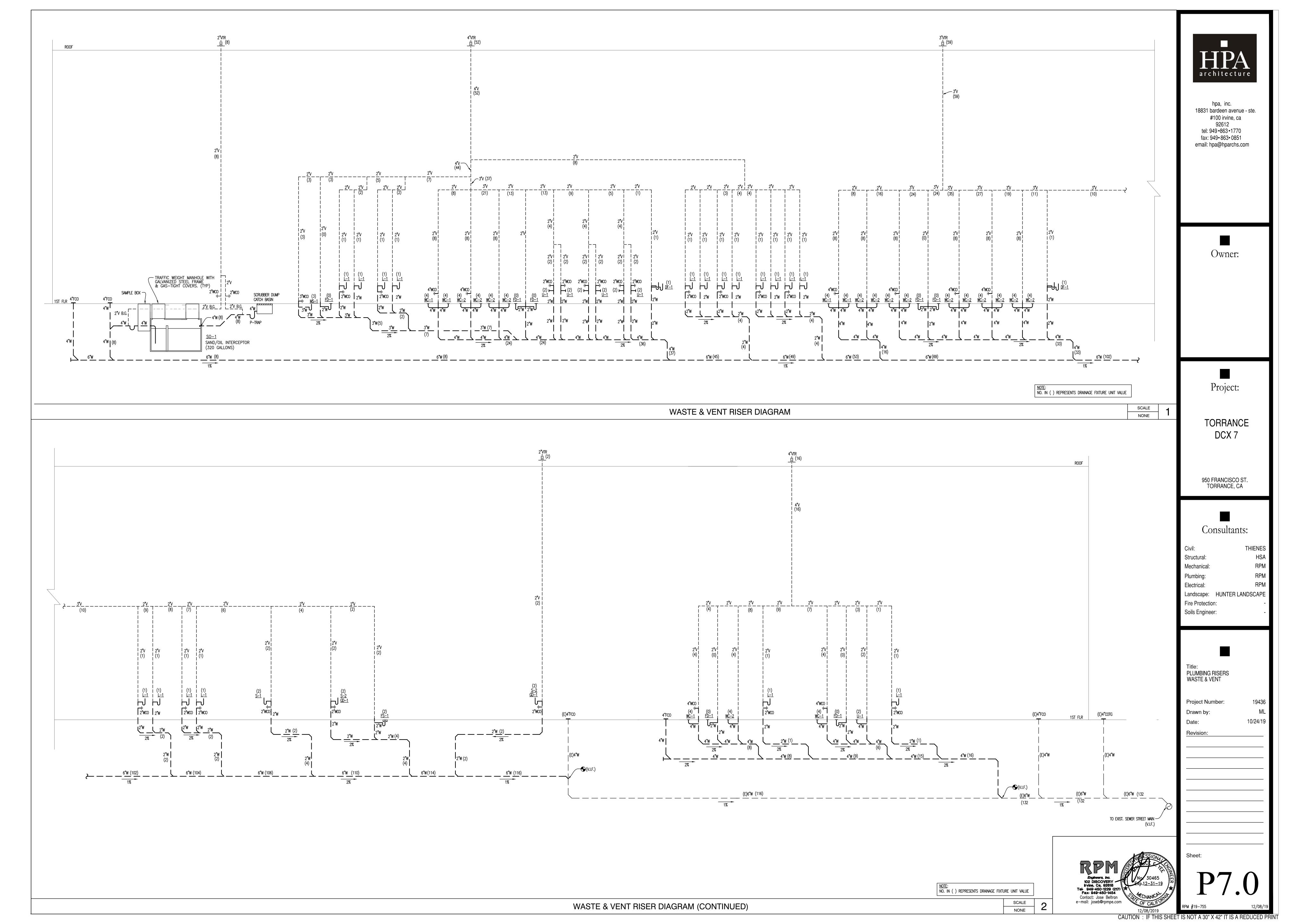
Engineers, Inc.
102 DISCOVERY Irvine, Ca. 92618
Tel: 949-450-1454
Contact: Jose Beltran e-mail: joseb@rpmpe.com

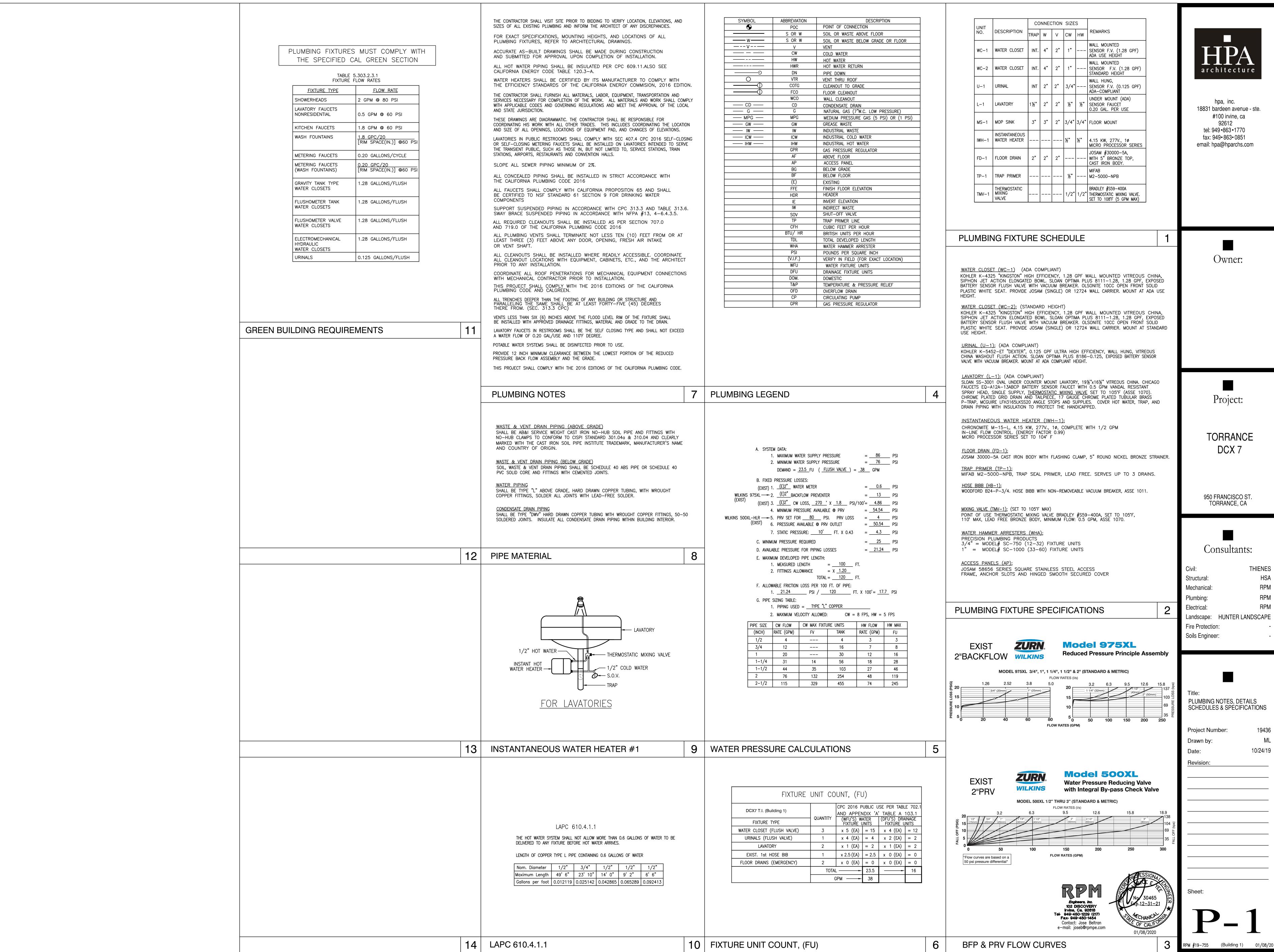


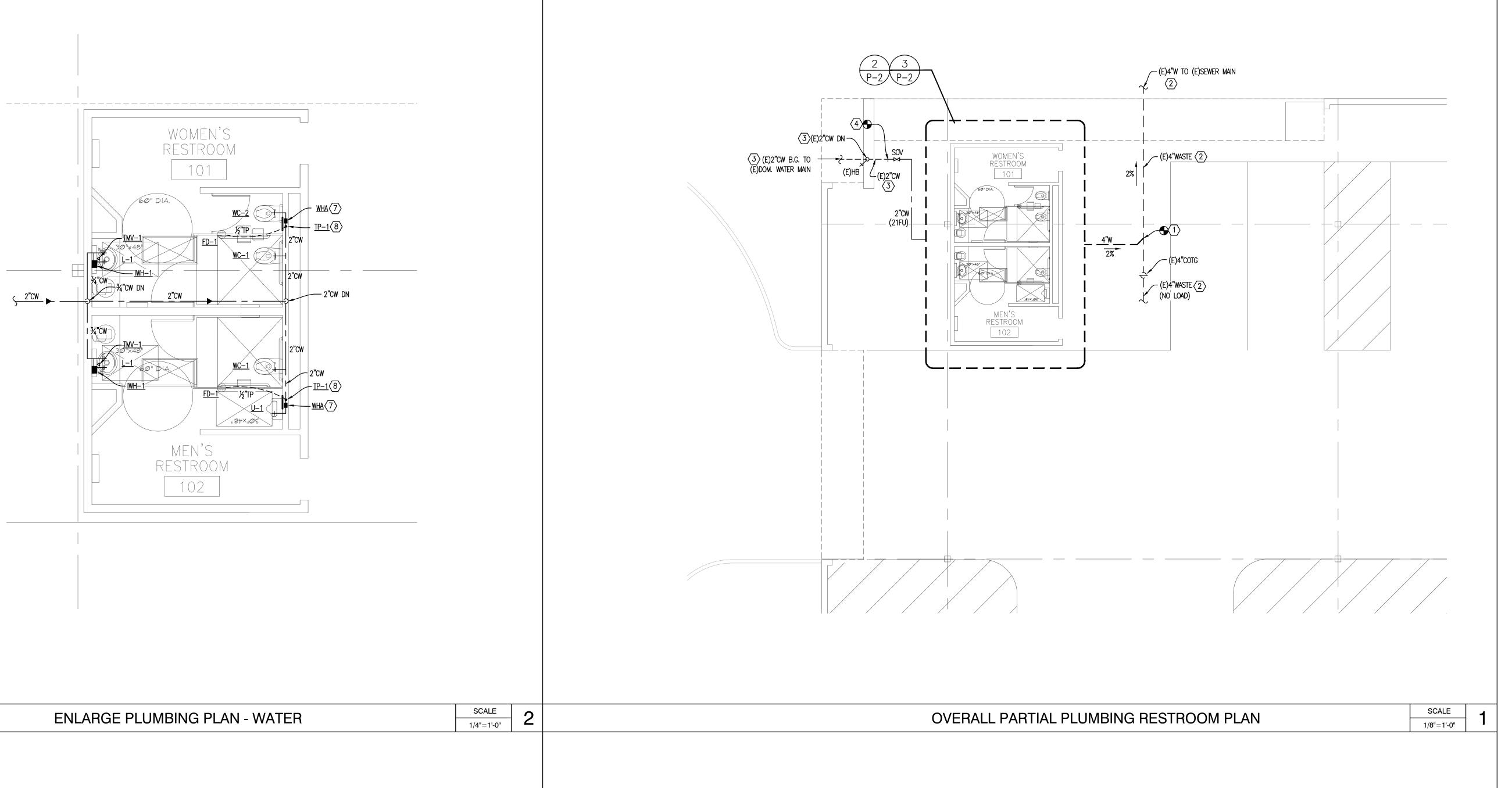


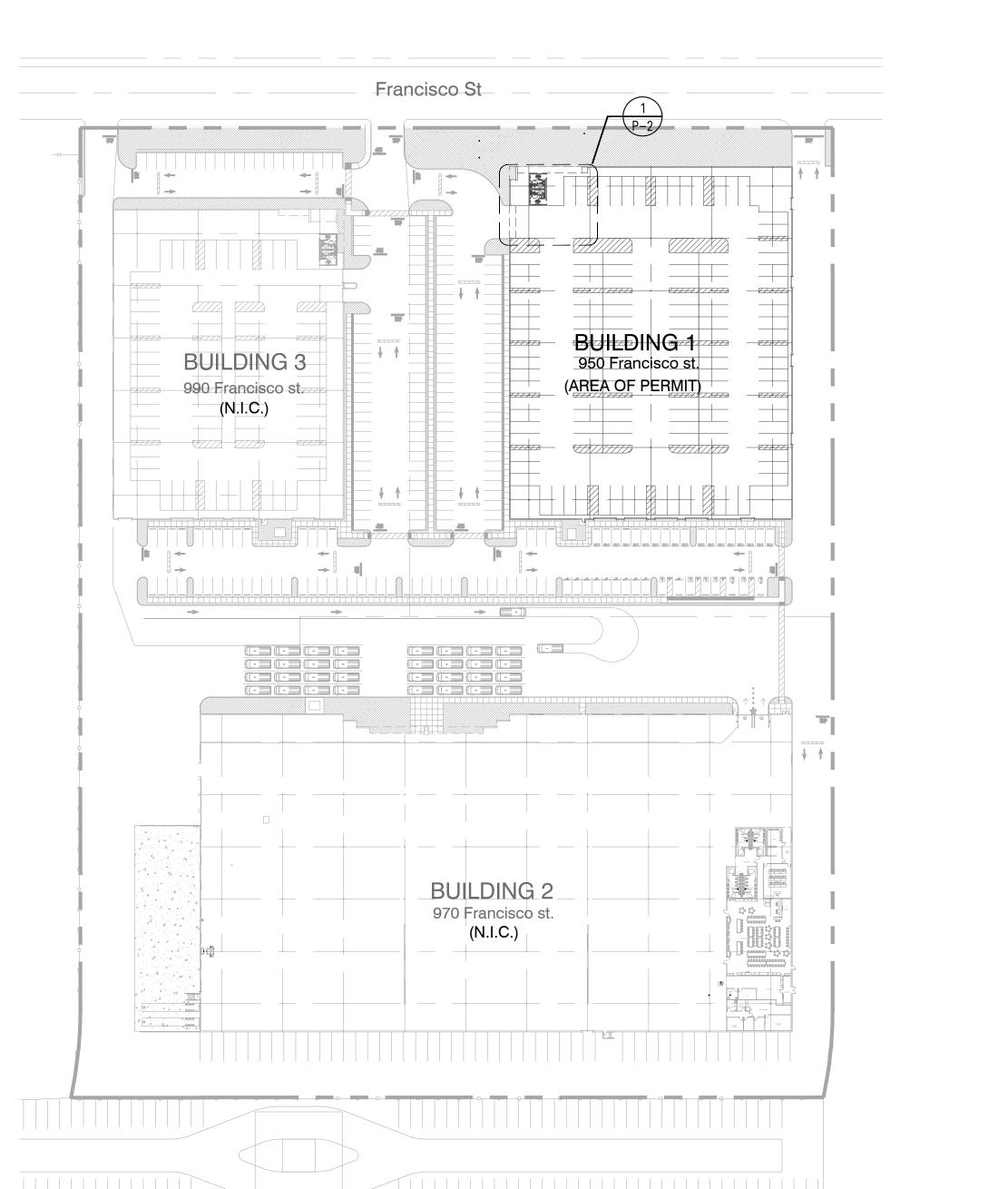
THIENES Landscape: HUNTER LANDSCAPE

10/24/19









KEYED NOTES:

- (1) CONNECT TO EXISTING 4"SEWER LINE AT THIS LOCATION. CONTRACTOR SHALL VERIFY IN FIELD FOR EXACT SIZE, DEPTH & LOCATION PRIOR TO CONSTRUCTION.
- $\langle 2 \rangle$ EXISTING WASTE LINE SHOWN ON THESE PLANS ARE ONLY ASSUMPTIONS & MAY NOT BE IN THIS LOCATION. PRIOR TO BID AND CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS & PROVIDE ALTERNATE BID PRICE FOR UNDERGROUND CAMERA SEWER PIPE SCOPE TO
- (3) EXISTING WATER LINE SHOWN ON THESE PLANS ARE ONLY ASSUMPTIONS & MAY NOT BE IN THIS LOCATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS ON SITE PRIOR TO BID AND CONSTRUCTION.

LOCATE EXISTING SEWER PIPE SIZE, DEPTH & DIRECTION OF FLOW.

- (4) CONNECT TO EXISTING WATER LINE AT THIS LOCATION. CONTRACTOR SHALL VERIFY IN FIELD FOR SIZE & LOCATION PRIOR TO BID AND CONSTRUCTION.
- (5) CONTRACTOR SHALL MAINTAIN V.T.R. 10'-0"MIN DISTANCE AWAY FROM ALL ROOF TOP A/C UNIT'S FRESH AIR INTAKE.
- (6) 2"WCO. CLEAN-OUT SHALL BE INSTALLED ABOVE THE FIXTURE CONNECTION FITTING, SERVING EACH URINAL, REGARDLESS OF THE LOCATION OF THE URINAL IN THE BUILDING. CPC 2016 707.4
- $\langle 7 \rangle$ WATER HAMMER ARRESTER, (WHA) ACCESS PANEL.
- $raket{8}$ provide <u>TP-1</u>, trap primer device and extend ½"TP to FLOOR DRAIN



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Project:

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950 FRANCISCO ST. TORRANCE, CA

Consultants:

Structural: Mechanical:

Landscape: HUNTER LANDSCAPE

Fire Protection: Soils Engineer:

Title: PLUMBING PLANS

Project Number: Drawn by: Date:

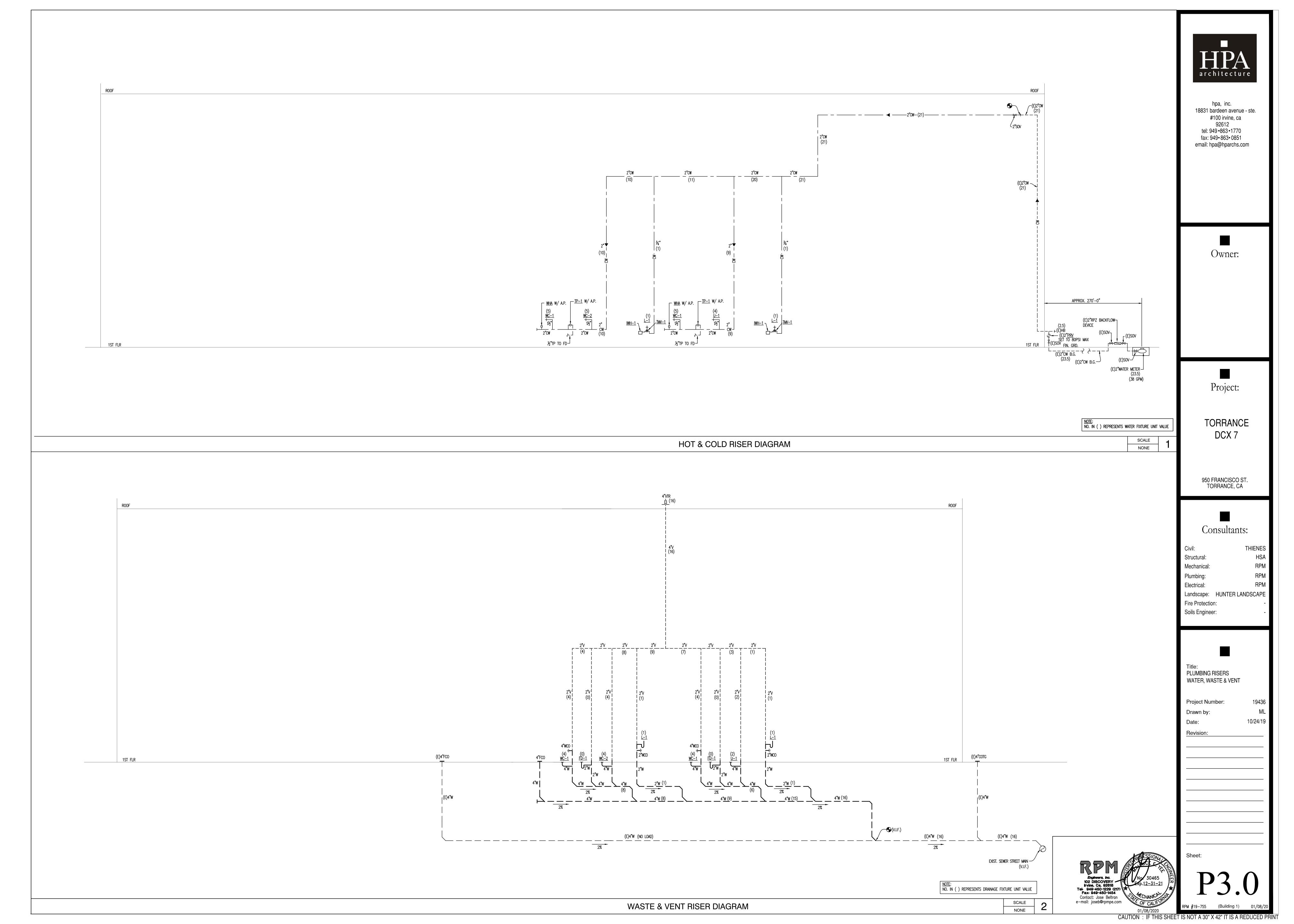
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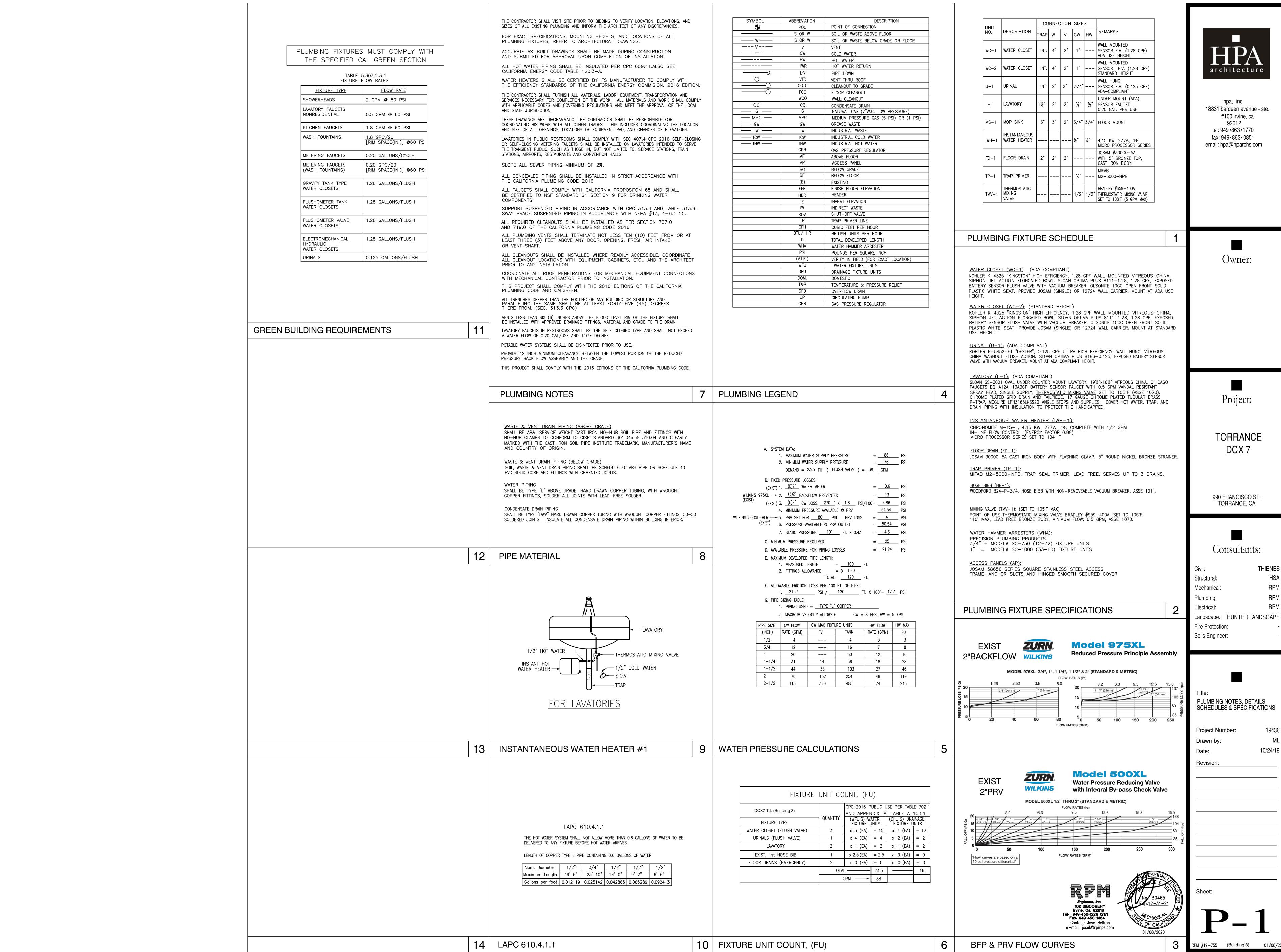
ENLARGE PLUMBING PLAN - WASTE & VENT

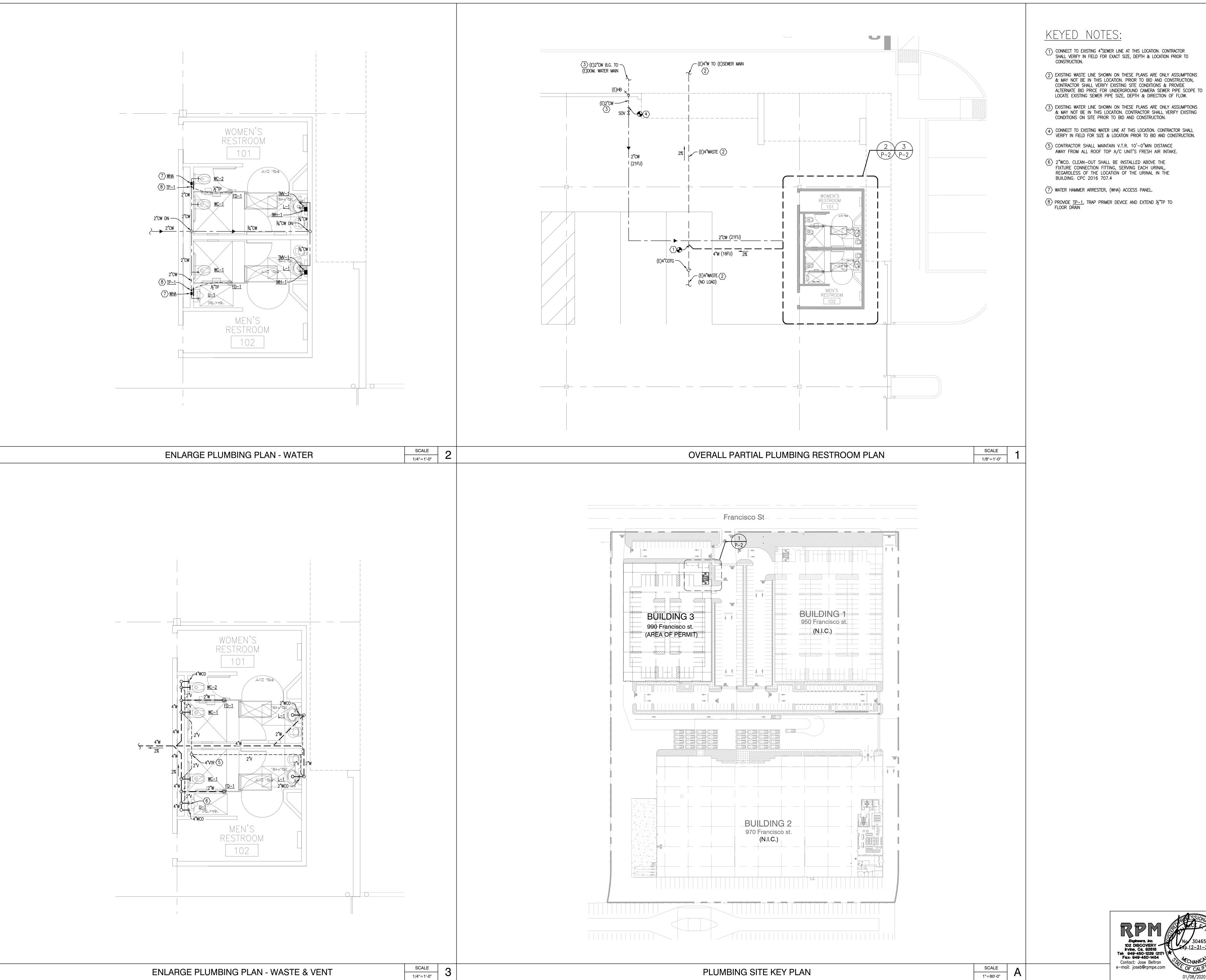
SCALE 1/4"=1'-0"

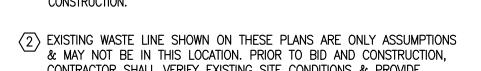
PLUMBING SITE KEY PLAN

SCALE 1"=80'-0"









- (3) EXISTING WATER LINE SHOWN ON THESE PLANS ARE ONLY ASSUMPTIONS & MAY NOT BE IN THIS LOCATION. CONTRACTOR SHALL VERIFY EXISTING

architecture

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Owner:

Project:

TORRANCE DCX 7

990 FRANCISCO ST. TORRANCE, CA

Consultants:

Structural: Mechanical:

Landscape: HUNTER LANDSCAPE

Soils Engineer:

Fire Protection:

Title: PLUMBING PLANS

Project Number: Drawn by: Date: Revision:

