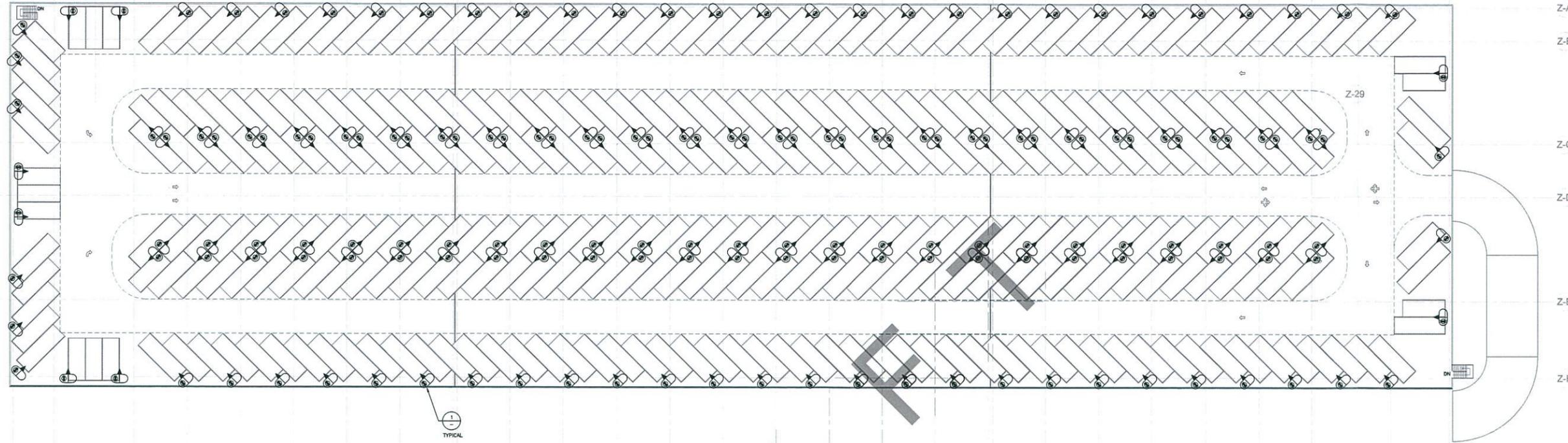


Z-1 Z-2 Z-3 Z-4 Z-5 Z-6 Z-7 Z-8 Z-9 Z-10 Z-11 Z-12 Z-13 Z-14 Z-15 Z-16 Z-17 Z-18 Z-19 Z-20 Z-21 Z-22 Z-23 Z-24 Z-25 Z-26 Z-27 Z-28 Z-29 Z-30 Z-31

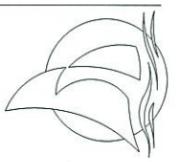


POWER PLAN - LEVEL 2
SCALE: 3/64" = 1'-0"

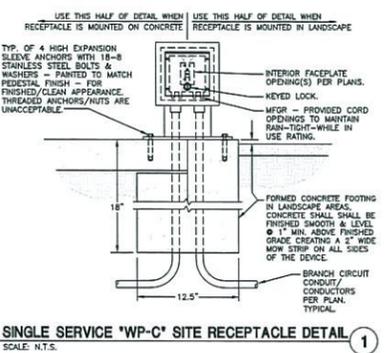
Z-A
Z-B
Z-C
Z-D
Z-E
Z-F

DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



DRAFT



SINGLE SERVICE "WP-C" SITE RECEPTACLE DETAIL
SCALE: N.T.S.

**COMMUNICATIONS PATHWAYS
GENERAL NOTES:**

- CONDUITS SHALL (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M (98 FT.); AND, (b) CONTAIN NO MORE THAN (3) 90° BENDS OR (1) REVERSE BEND WITHOUT INSTALLING A PULLBOX. CONDUITS IN PLACE OF PULLBOXES ARE UNACCEPTABLE.
 - CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS. WITH A MINIMUM OF 5 FEET OF EXTRA PULL TAPE COILED AT EACH END.
 - CONDUIT BEND RADIUS SHALL BE (a) A MINIMUM OF 6 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS 2" IN DIAMETER OR LESS, AND, (b) 10 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS MORE THAN 2" IN DIAMETER.
 - TERMINATE CONDUITS AND SLEEVES THAT PROTRUDE THROUGH STRUCTURAL FLOORS 2"-3" ABOVE THE FLOOR SURFACE.
 - INSTALL BUSHINGS AND BELL ENDS AS REQUIRED ON ALL CONDUITS.
 - FLEX CONDUIT IS GENERALLY UNACCEPTABLE FOR USE AS A COMMUNICATIONS CONDUIT EXCEPT AT SEISMIC JOINTS AND AS APPROVED IN WRITING BY THE ENGINEER.
 - ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE SITE UTILITY PLAN NOTES FOR ADDITIONAL UNDERGROUND COMMUNICATIONS CONDUIT SEALING REQUIREMENTS.
 - ALL PULLBOXES SHALL BE SIZED AND INSTALLED PER ANSI/TIA/EIA-569B. PULLBOXES FOR UNDER FLOOR CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULLBOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILING WITHIN THE ACCESSIBLE CEILING SPACE AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE AND CONDUIT SUPPORTS. PULLBOXES FOR ROOF MOUNTED OR EXTERIOR ABOVE GRADE APPLICATIONS SHALL BE NEMA-3 RATED. PULLBOXES SHALL BE SIZED ACCORDING TO THE FOLLOWING:
- | CONDUIT SIZE | WIDTH | LENGTH | DEPTH | WIDTH INCREASE PER ADDITIONAL CONDUIT |
|--------------|-------|--------|-------|---------------------------------------|
| 1" | 4" | 18" | 3" | 2" |
| 2" | 6" | 30" | 4" | 3" |
| 3" | 12" | 48" | 5" | 6" |
| 4" | 12" | 60" | 6" | 8" |
- FOR OTHER CONDUIT SIZES REFER TO ANSI/TIA/EIA 569B TABLE 12. - LATEST PUBLISHED EDITION.
 - CONDUIT(S) SHALL EXIT A PULLBOX ON THE WALL OPPOSITE THE WALL ENTERED.
 - PROVIDE LABELING OF EACH CONDUIT PER GENERAL ELECTRICAL SPECIFICATIONS.
 - PROVIDE INTERNAL/EXTERNAL GAS AND WATER TIGHT MECHANICAL SEALING/PLUGGING OF EACH BUILDING ENTRY CONDUIT AS SPECIFIED ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS.

POWER PLAN GENERAL NOTES:

- ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24" MINIMUM.
- ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
- ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- ALL FURNITURE FEED LOCATIONS TO BE VERIFIED WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
- ALL FURNITURE WHIPS SHALL BE TRIMMED TO REDUCE EXCESS WHIP LENGTH.
- WHEN EXPOSED CEILING OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
-ALL BRANCH CIRCUITS SHALL BE IN EMT.
-ALL BRANCH CIRCUITS SHALL BE ROUTED NEATLY AND IN PARALLEL TO STRUCTURES OR DUCT WORK.
USUALLY OBJECTIONABLE BRANCH CIRCUITS SHALL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
- EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL CONFORM TO NEC, OR ECC WHERE ADOPTED, ARTICLE 300.22(C).
- PROVIDE G.F.C.I. TYPE RECEPTACLE(S) WITHIN 6 FEET OF ANY SINK OR THERAPEUTIC TUB, SERVING ANY DRINKING FOUNTAIN OR VENDING MACHINE, AND WITHIN ANY KITCHEN SPACE.
- UNLESS SPECIFICALLY SHOWN AS (E), (F), (G), (H), (I), (J), (K), (L), (M), (N), (O), (P), (Q), (R), (S), (T), (U), (V), (W), (X), (Y), (Z), (AA), (AB), (AC), (AD), (AE), (AF), (AG), (AH), (AI), (AJ), (AK), (AL), (AM), (AN), (AO), (AP), (AQ), (AR), (AS), (AT), (AU), (AV), (AW), (AX), (AY), (AZ), (BA), (BB), (BC), (BD), (BE), (BF), (BG), (BH), (BI), (BJ), (BK), (BL), (BM), (BN), (BO), (BP), (BQ), (BR), (BS), (BT), (BU), (BV), (BW), (BX), (BY), (BZ), (CA), (CB), (CC), (CD), (CE), (CF), (CG), (CH), (CI), (CJ), (CK), (CL), (CM), (CN), (CO), (CP), (CQ), (CR), (CS), (CT), (CU), (CV), (CW), (CX), (CY), (CZ), (DA), (DB), (DC), (DD), (DE), (DF), (DG), (DH), (DI), (DJ), (DK), (DL), (DM), (DN), (DO), (DP), (DQ), (DR), (DS), (DT), (DU), (DV), (DW), (DX), (DY), (DZ), (EA), (EB), (EC), (ED), (EE), (EF), (EG), (EH), (EI), (EJ), (EK), (EL), (EM), (EN), (EO), (EP), (EQ), (ER), (ES), (ET), (EU), (EV), (EW), (EX), (EY), (EZ), (FA), (FB), (FC), (FD), (FE), (FF), (FG), (FH), (FI), (FJ), (FK), (FL), (FM), (FN), (FO), (FP), (FQ), (FR), (FS), (FT), (FU), (FV), (FW), (FX), (FY), (FZ), (GA), (GB), (GC), (GD), (GE), (GF), (GG), (GH), (GI), (GJ), (GK), (GL), (GM), (GN), (GO), (GP), (GQ), (GR), (GS), (GT), (GU), (GV), (GW), (GX), (GY), (GZ), (HA), (HB), (HC), (HD), (HE), (HF), (HG), (HH), (HI), (HJ), (HK), (HL), (HM), (HN), (HO), (HP), (HQ), (HR), (HS), (HT), (HU), (HV), (HW), (HX), (HY), (HZ), (IA), (IB), (IC), (ID), (IE), (IF), (IG), (IH), (II), (IJ), (IK), (IL), (IM), (IN), (IO), (IP), (IQ), (IR), (IS), (IT), (IU), (IV), (IW), (IX), (IY), (IZ), (JA), (JB), (JC), (JD), (JE), (JF), (JG), (JH), (JI), (JJ), (JK), (JL), (JM), (JN), (JO), (JP), (JQ), (JR), (JS), (JT), (JU), (JV), (JW), (JX), (JY), (JZ), (KA), (KB), (KC), (KD), (KE), (KF), (KG), (KH), (KI), (KJ), (KL), (KM), (KN), (KO), (KP), (KQ), (KR), (KS), (KT), (KU), (KV), (KW), (KX), (KY), (KZ), (LA), (LB), (LC), (LD), (LE), (LF), (LG), (LH), (LI), (LJ), (LK), (LL), (LM), (LN), (LO), (LP), (LQ), (LR), (LS), (LT), (LU), (LV), (LW), (LX), (LY), (LZ), (MA), (MB), (MC), (MD), (ME), (MF), (MG), (MH), (MI), (MJ), (MK), (ML), (MN), (MO), (MP), (MQ), (MR), (MS), (MT), (MU), (MV), (MW), (MX), (MY), (MZ), (NA), (NB), (NC), (ND), (NE), (NF), (NG), (NH), (NI), (NJ), (NK), (NL), (NM), (NO), (NP), (NQ), (NR), (NS), (NT), (NU), (NV), (NW), (NX), (NY), (NZ), (OA), (OB), (OC), (OD), (OE), (OF), (OG), (OH), (OI), (OJ), (OK), (OL), (OM), (ON), (OO), (OP), (OQ), (OR), (OS), (OT), (OU), (OV), (OW), (OX), (OY), (OZ), (PA), (PB), (PC), (PD), (PE), (PF), (PG), (PH), (PI), (PJ), (PK), (PL), (PM), (PN), (PO), (PP), (PQ), (PR), (PS), (PT), (PU), (PV), (PW), (PX), (PY), (PZ), (QA), (QB), (QC), (QD), (QE), (QF), (QG), (QH), (QI), (QJ), (QK), (QL), (QM), (QN), (QO), (QP), (QQ), (QR), (QS), (QT), (QU), (QV), (QW), (QX), (QY), (QZ), (RA), (RB), (RC), (RD), (RE), (RF), (RG), (RH), (RI), (RJ), (RK), (RL), (RM), (RN), (RO), (RP), (RQ), (RR), (RS), (RT), (RU), (RV), (RW), (RX), (RY), (RZ), (SA), (SB), (SC), (SD), (SE), (SF), (SG), (SH), (SI), (SJ), (SK), (SL), (SM), (SN), (SO), (SP), (SQ), (SR), (SS), (ST), (SU), (SV), (SW), (SX), (SY), (SZ), (TA), (TB), (TC), (TD), (TE), (TF), (TG), (TH), (TI), (TJ), (TK), (TL), (TM), (TN), (TO), (TP), (TQ), (TR), (TS), (TT), (TU), (TV), (TW), (TX), (TY), (TZ), (UA), (UB), (UC), (UD), (UE), (UF), (UG), (UH), (UI), (UJ), (UK), (UL), (UM), (UN), (UO), (UP), (UQ), (UR), (US), (UT), (UU), (UV), (UW), (UX), (UY), (UZ), (VA), (VB), (VC), (VD), (VE), (VF), (VG), (VH), (VI), (VJ), (VK), (VL), (VM), (VN), (VO), (VP), (VQ), (VR), (VS), (VT), (VU), (VV), (VW), (VX), (VY), (VZ), (WA), (WB), (WC), (WD), (WE), (WF), (WG), (WH), (WI), (WJ), (WK), (WL), (WM), (WN), (WO), (WP), (WQ), (WR), (WS), (WT), (WU), (WV), (WW), (WX), (WY), (WZ), (XA), (XB), (XC), (XD), (XE), (XF), (XG), (XH), (XI), (XJ), (XK), (XL), (XM), (XN), (XO), (XP), (XQ), (XR), (XS), (XT), (XU), (XV), (XW), (XX), (XY), (XZ), (YA), (YB), (YC), (YD), (YE), (YF), (YG), (YH), (YI), (YJ), (YK), (YL), (YM), (YN), (YO), (YP), (YQ), (YR), (YS), (YT), (YU), (YV), (YW), (YX), (YZ), (ZA), (ZB), (ZC), (ZD), (ZE), (ZF), (ZG), (ZH), (ZI), (ZJ), (ZK), (ZL), (ZM), (ZN), (ZO), (ZP), (ZQ), (ZR), (ZS), (ZT), (ZU), (ZV), (ZW), (ZX), (ZY), (ZZ)

PLAN NOTES:

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DATE: _____ Issue Date
PROJECT #: _____ Project Number
SCALE: _____ AS NOTED
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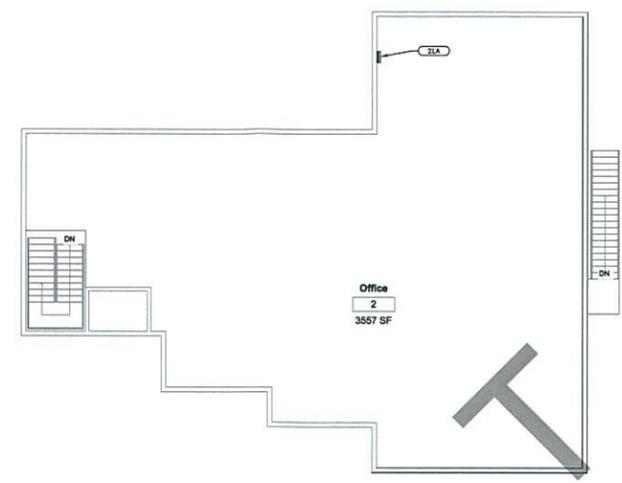
**PARKING GARAGE LVL 2
POWER PLAN**

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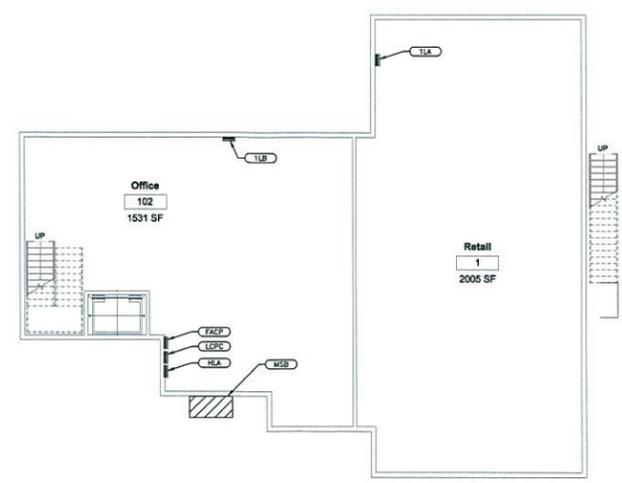
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ELECTRICAL PLAN - LEVEL 2
SCALE: 1/8" = 1'-0"

2



ELECTRICAL PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"

1

D R A F T

POWER PLAN GENERAL NOTES:

1. ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24" MINIMUM.
2. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
3. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
4. ALL FURNITURE FEED LOCATIONS TO BE VERIFIED WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
5. ALL FURNITURE WHIPS SHALL BE TRIMMED TO REDUCE EXCESS WHIP LENGTH.
6. WHEN EXPOSED CEILING OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
 - ALL BRANCH CIRCUITS SHALL BE IN ENT.
 - ALL BRANCH CIRCUITS SHALL BE ROUTED NEATLY AND IN PARALLEL TO STRUCTURES OR EXIST WORK.
 - VISUALLY OBJECTIONABLE BRANCH CIRCUITS SHALL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
7. EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL CONFORM TO NEC, OR ECC WHERE ADOPTED, ARTICLE 300.21(C).
8. PROVIDE G.F.C.I. TYPE RECEPTACLES WITHIN 6 FEET OF ANY SINK OR THERAPEUTIC TUB, SERVING ANY DRINKING FOUNTAIN OR VENDING MACHINE, AND WITHIN ANY KITCHEN SPACE.
9. UNLESS SPECIFICALLY SHOWN AS (E), (R), (EX), (O), EXISTING OR NON-BUILD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

COMMUNICATIONS PATHWAYS GENERAL NOTES:

1. CONDUITS SHALL (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M (98 FT.), AND (b) CONTAIN NO MORE THAN (2) 90° BENDS OR (1) REDUCE BEND WITHOUT INSTALLING A PULLBOX. CONDUITS IN PLACE OF PULLBOXES ARE UNACCEPTABLE.
2. CONDUITS SHALL CONTAIN PLASTIC OR NYLON FULL TAPE RATED AT 200 LBS. WITH A MINIMUM OF 5 FEET OF EXTRA PULL TAPE COILED AT EACH END.
3. CONDUIT BEND RADIUS SHALL BE (a) A MINIMUM OF 6 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS 2" IN DIAMETER OR LESS, AND (b) 10 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS MORE THAN 2" IN DIAMETER.
4. TERMINATE CONDUITS AND SLEEVES THAT PROTRUDE THROUGH STRUCTURAL FLOORS 2"-3" ABOVE THE FLOOR SURFACE.
5. INSTALL BUSHINGS AND BELL ENDS AS REQUIRED ON ALL CONDUITS.
6. FLEX CONDUIT IS GENERALLY UNACCEPTABLE FOR USE AS A COMMUNICATIONS CONDUIT EXCEPT AT SEISMIC JOINTS AND AS APPROVED IN WRITING BY THE ENGINEER.
7. ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE SITE UTILITY PLAN NOTES FOR ADDITIONAL UNDERGROUND COMMUNICATIONS CONDUIT SEALING REQUIREMENTS.
8. ALL PULLBOXES SHALL BE SIZED AND INSTALLED PER ANSI/TIA/EA-568B. PULLBOXES FOR UNDER FLOOR CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULLBOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILING WITHIN THE ACCESSIBLE CEILING SPACE AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE AND CONDUIT SUPPORTS. PULLBOXES FOR ROOF MOUNTED OR EXTERIOR ABOVE GRADE APPLICATIONS SHALL BE NEMA 3 RATED. PULLBOXES SHALL BE SIZED ACCORDING TO THE FOLLOWING:

CONDUIT SIZE	WIDTH	LENGTH	DEPTH	WIDTH INCREASE PER ADDITIONAL CONDUIT
1"	4"	18"	3"	2"
2"	6"	36"	4"	3"
3"	12"	48"	5"	6"
4"	15"	60"	6"	8"

FOR OTHER CONDUIT SIZES REFER TO ANSI/TIA/EA 568B TABLE 12. - LATEST PUBLISHED EDITION.

9. CONDUIT(S) SHALL EXIT A PULLBOX ON THE WALL OPPOSITE THE WALL ENTERED.
10. PROVIDE LABELING OF EACH CONDUIT PER GENERAL ELECTRICAL SPECIFICATIONS.
11. PROVIDE INTERNAL/EXTERNAL GAS AND WATER TIGHT MECHANICAL SEALING/PULLING OF EACH BUILDING ENTRY CONDUIT AS SPECIFIED ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS.

DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



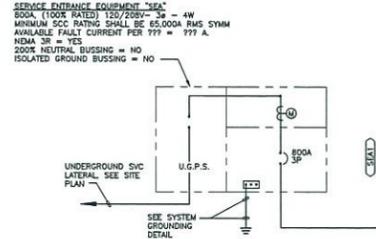
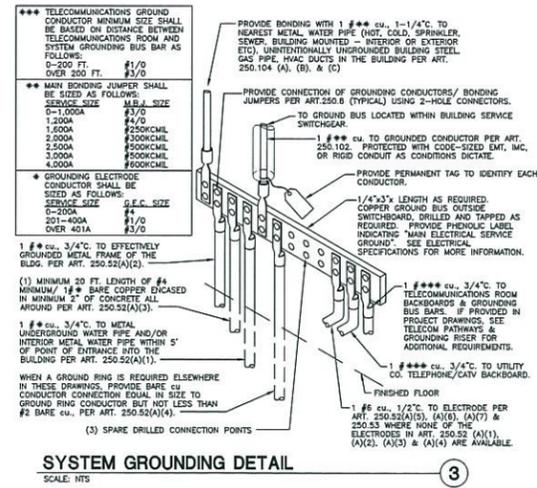
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MARINE SERVICE BLDG ELECTRICAL PLAN

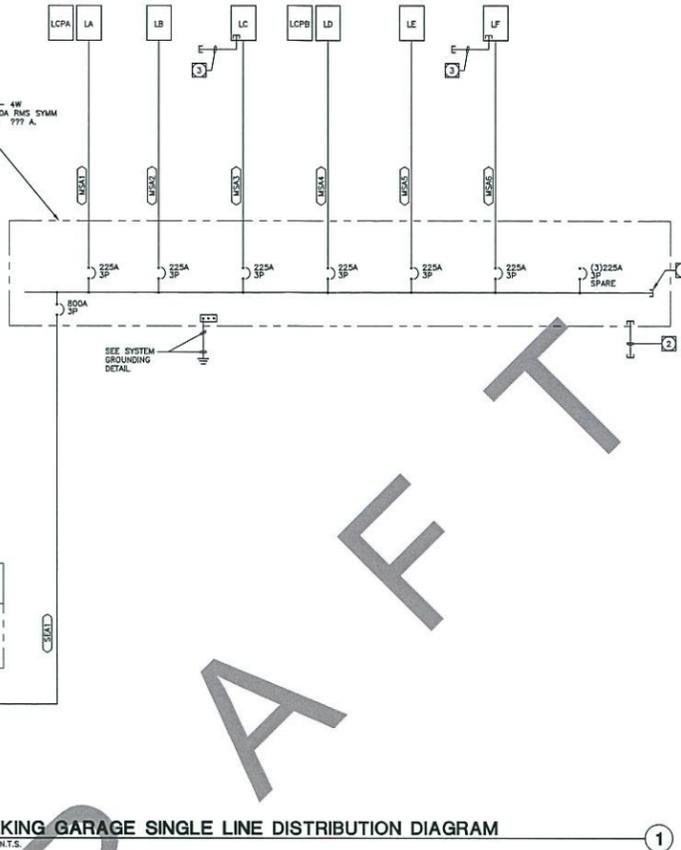
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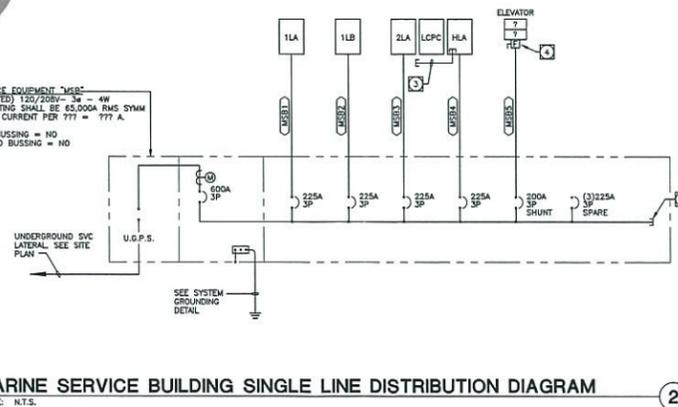
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 Irvine, CA 92614
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PARKING GARAGE SINGLE LINE DISTRIBUTION DIAGRAM
SCALE: N.T.S.



MARINE SERVICE BUILDING SINGLE LINE DISTRIBUTION DIAGRAM
SCALE: N.T.S.



GENERAL SINGLE LINE DIAGRAM NOTES:

- ALL SWITCHGEAR SHALL BE SQUARE D OR EQUAL BY CUTLER-HAMMER, RSE-SIERRA, C.E., OR SIEMENS.
- ALL ITEMS DEPICTED ON THE SINGLE LINE DRAWINGS SHALL BE ASSUMED AS NEW U.O.N.
- ALL OVERCURRENT DEVICES IN AN INDIVIDUAL PIECE OF EQUIPMENT SHALL HAVE AN AIC RATING EQUAL TO THE OVERCURRENT DEVICES RATING OF DEVICES WITHIN A PIECE OF EQUIPMENT IS NOT ALLOWED. SEE SPECIFICATIONS FOR MORE INFORMATION.
- SERIES RATED DEVICES SHALL HAVE BEEN INVESTIGATED BY UL IN COMBINATION WITH THE END USE EQUIPMENT AND IN THE EQUIPMENT IN WHICH THESE DEVICES ARE USED SHALL BE MARKED WITH A SERIES RATING. ALL EQUIPMENT SHALL BE MARKED IN ACCORDANCE WITH NEC (OR CEC-WHERE ADOPTED) REQUIREMENTS. SEE SPECIFICATIONS FOR MORE INFORMATION. WHERE SERIES RATINGS ARE ALLOWED, THE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE A SERIES COMBINATION RATING, WHICH SHALL BE READILY VISIBLE AND STATE THE FOLLOWING:
CAUTION - SERIES COMBINATION SYSTEM RATED AT 77,777 AMPERES USE ONLY IDENTIFIED REPLACEMENT COMPONENTS IN THIS SYSTEM.
WHERE 77,777 REPRESENTS AVAILABLE FAULT CURRENT. SEE SPECIFICATIONS FOR PLACARD REQUIREMENTS.
- ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE CELSIUS CONDUCTORS.
- ALL SERVICE ENTRANCE EQUIPMENT RATED AT 400A OR GREATER SHALL BE PROVIDED WITH A BACKFIED-RATED, SOLID STATE MAIN OVERCURRENT DEVICE AND BUSSING RATED AT 100% OPERATION. NON-SERVICE ENTRANCE SWITCHBOARDS AND DISTRIBUTION BOARDS LARGER THAN 600A SHALL BE PROVIDED WITH A SOLID STATE MAIN OVERCURRENT DEVICE. IF SHOWN ON PLANS, AND WITH BUSSING RATED AT 100% OPERATION. ALL NON-SERVICE ENTRANCE SWITCHBOARDS AND DISTRIBUTION BOARD MAIN OVERCURRENT DEVICES SHALL BE BACKFIED-RATED. BACKFIED RATINGS SHALL COMPLY WITH NEC, OR CEC, WHERE ADOPTED. 680.54(B)(5). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING CIRCUIT BREAKERS.
- ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE:
 - TIN-PLATED ALUMINUM BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL HAVE MINIMUM WITHSTAND RATING EQUAL TO THE AVAILABLE FAULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE 100% NEUTRAL BUSSING MINIMUM UNLESS OTHERWISE NOTED. PROVIDE FULL LENGTH GROUND BUS AND, WHERE INDICATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS.
 - LUSS SUITABLE FOR USE WITH COPPER OR ALUMINUM CONDUCTORS LISTED FOR USE WITH 75 DEGREE CELSIUS AMPACITY CONDUCTORS.
 - PERMANENT PLACARD(S) MARKED PER THE SPECIFICATIONS AND PER NEC (OR CEC-WHERE ADOPTED) SECTIONS 225.37, 230.2(C), 650.54(B) & (C), 682.56, 700.8, 701.9, AND 702.8 DENOTING THE PRESENCE OF ADDITIONAL SERVICES, PHOTOVOLTAIC SYSTEMS, FUEL CELLS, EMERGENCY OR STAND-BY POWER SOURCES AS APPLICABLE.
- CONTRACTOR SHALL SUBMIT SWITCHBOARD SHOP DRAWINGS TO THE SERVING UTILITY FOR APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL SECURE CONFIRMATION THAT THE PROPOSED SWITCHBOARD COMPLIES WITH ELECTRIC UTILITY COMPANY REGULATIONS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE SPECIFICATIONS FOR SWITCHBOARDS, DISTRIBUTION BOARDS, TRANSFORMERS, PANEL BOARDS AND ALL OTHER DEVICES SHOWN ON THE SINGLE LINE PRIOR TO FABRICATION.
- ALLOWABLE DIMENSIONS IN MAIN ELECTRICAL ROOM ARE A CRITICAL COORDINATION ITEM. CONTRACTOR SHALL PROVIDE 1/4" = 1'-0" SCALE DRAWINGS WITH SWITCHGEAR SUBMITTALS SHOWING THAT ALL PROPOSED EQUIPMENT WILL FIT IN THE SPACE PROVIDED. SUBMITTALS WITHOUT THIS DRAWING SHALL BE REJECTED AS INCOMPLETE.
- UNLESS SPECIFICALLY SHOWN AS (E), (F), (ER), (O), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
- SEE POWER SYSTEMS STUDY SPECIFICATION FOR ADDITIONAL REQUIREMENTS. ALL REQUIRED POWER SYSTEMS STUDIES MUST BE COMPLETED AND SUBMITTED WITH SWITCHGEAR SUBMITTAL. FAILURE TO DO SO WILL PREVENT THE ENGINEER FROM EFFECTIVELY EVALUATING THE SUBMITTAL AND SHALL RESULT IN REJECTION OF THE SWITCHGEAR SUBMITTAL AS INCOMPLETE.
- WHERE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION OR WHERE A NEW GROUND FAULT PROTECTIVE DEVICE IS BEING INSTALLED, A GROUND FAULT SYSTEM TEST SHALL BE CONDUCTED BY AN INDEPENDENT TESTING AGENCY PER NEC (OR CEC-WHERE ADOPTED) 230.95(C). THE GROUND FAULT SYSTEM TEST SHALL BE PERFORMED IN THE PRESENCE OF THE LOCAL AUTHORITY HAVING JURISDICTION. VERIFICATION OF DEVICE SETTINGS FOR THE POWER SYSTEMS STUDY SPECIFICATION SHALL BE PERFORMED BY THE SAME INDEPENDENT TESTING AGENCY. THE GROUND FAULT TEST RESULTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD.

SPECIFIC SINGLE LINE NOTES:

- BUSSING SHALL BE PROVIDED FOR FUTURE BUS EXTENSION TO FUTURE DISTRIBUTION SYSTEM.
- PROVIDE (1) 4" O.D. FOR EVERY 800 AMPS OF SERVICE SIZE (MINIMUM OF ONE) STUBBED OUTSIDE THE BUILDING TO THE NEAREST PLANTER AREA. CAP AND MARK.
- PROVIDE (4) 1" O.D. STUBBED OUTSIDE THE BUILDING TO THE NEAREST PLANTER AREA. CAP AND MARK.
- SEE MOTORIZED EQUIPMENT SCHEDULE FOR MORE INFORMATION.

DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



DATE: _____ Issue Date

PROJECT #: _____ Project Number

SCALE: _____ AS NOTED

0

NORTH

SHEET #: E4.01

SINGLE LINE DIAGRAM

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GENERAL LIGHTING FIXTURE SCHEDULE NOTES:

A. THE LIGHTING FIXTURES AND BALLASTS FOR THIS PROJECT HAVE BEEN SPECIFIED TO INSURE THAT SPECIFIC AESTHETIC AND PERFORMANCE REQUIREMENTS WILL BE SATISFIED. THESE PRODUCTS HAVE BEEN CAREFULLY RESEARCHED AND EACH SPECIFIED ITEM HAS UNIQUE QUALITIES WHICH WERE DETERMINED TO BE ESSENTIAL IN SATISFYING THE OWNERS, ARCHITECTS, AND ENGINEERS DESIGN CRITERIA WHILE STILL FITTING WITHIN THE ESTABLISHED PROJECT BUDGET. IN ADDITION, THE MANUFACTURING AND SHIPPING TIME REQUIREMENTS FOR EACH OF THE SPECIFIED FIXTURES HAS BEEN VERIFIED TO FIT WITHIN THE ESTABLISHED CONSTRUCTION SCHEDULE.

B. SUBSTITUTIONS OF THE SPECIFIED PRODUCTS ARE STRICTLY PROHIBITED - UNLESS APPROVED AS STATED HEREIN. LIGHTING FIXTURE AND BALLAST SUBSTITUTIONS SHALL BE FORMALLY PRESENTED TO THE ENGINEER, BY APPOINTMENT ONLY, AT LEAST TEN (10) WORKING DAYS PRIOR TO BID TIME. THE SUBMITTAL MATERIAL SHALL INCLUDE THE FOLLOWING INFORMATION: THE PHOTOMETRIC DATA WILL NOT BE ACCEPTABLE. THE PHOTOMETRIC DATA MUST BE PROVIDED BY THE MANUFACTURER OF THE PROPOSED PRODUCT. THE PHOTOMETRIC DATA MUST BE PROVIDED BY THE MANUFACTURER OF THE PROPOSED PRODUCT. THE PHOTOMETRIC DATA MUST BE PROVIDED BY THE MANUFACTURER OF THE PROPOSED PRODUCT.

1. A COMPLETE AND OPERATING SAMPLE, WIRED FOR 120V OPERATION, WITH LAMP, CORD AND PLUG. 2. A COMPLETE PHOTOMETRIC REPORT, FOR THE PROPOSED SUBSTITUTE PRODUCT, USING THE SPECIFIED LAMP TYPE AND WATTAGE, INCLUDING TABULATED CANDLEPOWER VALUES, COEFFICIENT OF UTILIZATION, AND AN ISO-FOOT-CANDLE CHART. THE PHOTOMETRIC REPORT MUST SHOW THAT THE SUBSTITUTED FIXTURE PROVIDES PERFORMANCE EQUAL TO OR BETTER THAN THE ORIGINAL SPECIFIED ITEM. THE TOTAL COSTS FOR THESE EXPENSES WILL BE DEDUCTED FROM THE CONTRACT COST.

3. A CURRENT ORIGINAL CATALOG DATA SHEET WITH LUMINAIRE CATALOG NUMBERS. MODIFIED DATA SHEETS WILL NOT BE ACCEPTABLE. 4. A SIGNED COPY OF THE "SUBSTITUTION COMPLIANCE FORM", LOCATED IN THE DIVISION 1 SPECIFICATION, STATING THAT IF THE PROPOSED SUBSTITUTION IS ACCEPTED, THE PROJECT SCHEDULE WILL NOT BE NEGATIVELY EFFECTED. IF THE COMPLETION OF THE PROJECT IS DELAYED BECAUSE OF THE APPROVED SUBSTITUTION, THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR PAYMENT OF ANY ESTABLISHED LIQUIDATED DAMAGES.

5. FOR SPECIFIC INTERIOR FIXTURE SUBSTITUTIONS, WHEN DIRECTED BY THE ENGINEER, A POINT-BY-POINT SCALED COMPUTER PRINTOUT SHALL BE PROVIDED VERIFYING THE ILLUMINATION LEVELS FOR THE SPECIFIC INTERIOR AREA. IF THE SUBSTITUTED FIXTURE IS AN EMERGENCY FIXTURE, THE REPORT SHALL BE RUN IN BOTH NORMAL AND EMERGENCY MODES. THIS REPORT SHALL BE CONFIGURED WITH SPECIFIC CONSTRAINTS, AS DIRECTED BY THE ENGINEER OF RECORD. THE REPORT MUST SHOW THAT THE SUBSTITUTED FIXTURE PROVIDES PERFORMANCE EQUAL TO OR BETTER THAN THE LIGHTING LEVELS OF THE ORIGINAL SPECIFIED PRODUCT.

6. FOR ALL EXTERIOR FIXTURE SUBSTITUTIONS, A POINT-BY-POINT SCALED COMPUTER PRINTOUT SHALL BE PROVIDED VERIFYING THE ILLUMINATION LEVELS FOR THE ENTIRE SITE PLAN BASED ON USING THE PROPOSED ALTERNATIVE FIXTURES. THE REPORT MUST SHOW THAT THE SUBSTITUTED FIXTURE PROVIDES PERFORMANCE EQUAL TO OR BETTER THAN THE LIGHTING LEVELS AND UNIFORMITY RATINGS (MAXIMUM AND AVERAGE) OF THE SPECIFIED PRODUCT. THIS REPORT SHALL BE CONFIGURED WITH THE FOLLOWING CONSTRAINTS:

a. THE SPACING INCREMENT OR POINTS ON THE VERIFICATION REPORT SHALL NOT EXCEED TEN (10) FEET IN EITHER DIRECTION. b. THE PRINTOUT SHALL BE BASED ON PROVIDING MAINTAINED FOOT-CANDLE LEVELS USING MEAN LAMP LUMENS AND A LIGHT LOSS FACTOR, AS DIRECTED BY THE ENGINEER OF RECORD. c. THE PRINTOUT SHALL SHOW ANY ADDITIONAL ENERGY AND/OR ENERGY COSTS, FOR A TEN YEAR PERIOD, AS COMPARED TO THE ORIGINALLY SPECIFIED ITEM. THE TOTAL COSTS FOR THESE EXPENSES WILL BE DEDUCTED FROM THE CONTRACT COST.

7. "Y" CHARACTERS IN FIXTURE MODEL NUMBER INDICATE THAT THE FIXTURES ARE SPECIFIED IN A GENERIC MOUNTING FORMAT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND PROVIDING ALL HANGERS, CLIPS AND NECESSARY HARDWARE TO INSTALL THE FIXTURE IN THE ENVIRONMENT AS SHOWN ON THE ARCHITECTURAL PLANS. ALL FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF THE UNIFORM BUILDING CODE, AS WELL AS ANY LOCAL CODES.

D. CONFLICTS BETWEEN CATALOG NUMBERS AND FIXTURE DESCRIPTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, PRIOR TO BID TIME, FOR CLARIFICATION.

E. "Y" CHARACTERS IN FIXTURE MODEL NUMBER INDICATE THAT ALL FIXTURE VOLTAGES SHALL BE VERIFIED BY THE CONTRACTOR TO CORRESPOND - SEE DRAWINGS FOR BRANCH CIRCUIT INFORMATION. IF IT IS POSSIBLE THAT FIXTURES WILL BE REQUIRED IN VARIOUS VOLTAGES.

F. ALL FIXTURE FINISHES AND COLORS, UNLESS NOTED AS CUSTOM, SHALL BE SELECTED FROM THE FULL RANGE OF MANUFACTURERS STANDARD COLOR OPTIONS, AS SELECTED BY THE ARCHITECT. THIS SELECTION WILL BE PROVIDED IN THE SHOP DRAWING REVIEW PROCESS. ALL FIXTURES INDICATED WITH A CUSTOM COLOR SHALL BE PROVIDED WITH A CUSTOM COLOR PAINT PER THE ARCHITECTURAL REVIEW COMMENTS OF THE SUBMITTED SHOP DRAWINGS.

G. ALL BALLASTS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

1. "Y" CHARACTERS IN FIXTURE MODEL NUMBER INDICATE THAT THE FIXTURE BALLAST TYPE AND QUANTITY MUST BE VERIFIED BY THE CONTRACTOR - USING FIXTURE CALLOUT INFORMATION AND FIXTURE SWITCHING CONFIGURATION INFORMATION. IT IS POSSIBLE THAT A SINGLE FIXTURE TYPE COULD BE REQUIRED IN VARIOUS BALLAST CONFIGURATIONS.

2. FLUORESCENT(LINEAR/COMPACT). a. PROVIDE ELECTRONIC, INSTANT START STANDARD BALLAST WITH HIGH POWER FACTOR, MAXIMUM THD OF 20%, CLASS "A" SOUND RATING, AND ZERO DEGREE FAHRENHEIT, MINIMUM START-TEMPERATURE RATING. b. ACCEPTABLE MANUFACTURERS: ADVANCE, SYLVANIA, OR GE. PROVIDE ELECTRONIC PROGRAM START BALLAST WITH 0.5% MIN. POWER FACTOR, MAXIMUM THD OF 10%, CLASS "A" SOUND RATING, AND ZERO DEGREE FAHRENHEIT, MINIMUM START-TEMPERATURE RATING.

3. MASTER-SATELLITE / INBOARD-OUTBOARD SWITCHING. a. WHERE FIXTURES ARE INDICATED WITH TANDEN WIRE CONNECTION, A MASTER-SATELLITE BALLAST CONFIGURATION SHALL BE PROVIDED THAT ACCOMMODATES THE INDICATED IN-BOARD / OUT-BOARD SWITCHING CONFIGURATION. b. SINGLE STAND ALONE FIXTURES IN THE SAME SWITCHING ZONE AS TANDEN WIRED FIXTURES SHALL BE PROVIDED WITH MULTIPLE BALLASTS TO ACCOMMODATE THE INDICATED IN-BOARD / OUT-BOARD SWITCHING CONFIGURATION. c. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND PROVIDING THE APPROPRIATE BALLAST TYPE AND QUANTITY - BASED UPON THE FIXTURE CALLOUT INFORMATION AND SWITCHING CONFIGURATION.

4. STEPPED DIMMING FLUORESCENT (LINEAR): a. PROVIDE ELECTRONIC, PROGRAM START, STEPPED DIMMING BALLAST (0%-100%) WITH 0.5% MIN. POWER FACTOR, 10% MAXIMUM THD, CLASS "A" SOUND RATING, 100% OUTPUT BALLAST FACTOR BETWEEN 0.8 - 1.0, AND 50 DEGREE FAHRENHEIT MINIMUM START-TEMPERATURE RATING. BALLAST SHALL BE COMPLIANT WITH APPLICABLE ENERGY CODE. b. ACCEPTABLE MANUFACTURERS: UNIVERSAL, PHILIPS ADVANCE, OR SYLVANIA.

5. CONTINUOUS DIMMING FLUORESCENT(LINEAR/COMPACT): a. PROVIDE ELECTRONIC CONTINUOUS DIMMING BALLAST WITH HIGH POWER FACTOR, MAXIMUM THD OF 20%, CLASS "A" OR BETTER SOUND RATING, BALLAST FACTOR (BF) AS INDICATED, AND 50 DEGREE FAHRENHEIT MINIMUM START-TEMPERATURE RATING. BALLAST MUST BE COMPATIBLE WITH DIMMER AND/OR DIMMING SYSTEM. CONTINUOUS DIMMING BALLAST SHALL BE IDENTIFIED / PROVIDED AS FOLLOWS:

DM 1X - 70 LUTRON #H30 SERIES BF = 1.0 (70/75/75H0) (147/140) LUTRON #H33 SERIES BF = 0.85 (147/140) DM 5X - 70 LUTRON #H30 SERIES BF = 1.0 (70/75/75H0/75T1) (147/140) LUTRON #E33 SERIES BF = 0.85 (147/140) DM 10X - 70 LUTRON #E33 SERIES BF = 0.85/1.0/1.0 (70/75/75H0/75T1) (147/140) LUTRON #E33 SERIES BF = 0.85 (147/140) DM LV - 77 ADVANCE #MARK 7 (0-10V) BF = 1.0 (147/140) DM 2-WIRE - 70 LUTRON #2N SERIES BF = 0.85 (147) (147) BF = 0.85 (147)

b. EQUAL BY ADVANCE, UNIVERSAL OR SYLVANIA QUICKTRONIC. 6. HIGH INTENSITY DISCHARGE (HID): a. PROVIDE HID BALLASTS WITH HIGH POWER FACTOR, ENCAPSULATED CORE & COIL TYPE, CORE & COIL TYPE, OR P-CAN TYPE, WITH CLASS "A" OR BETTER SOUND RATING UP THROUGH 150W AND CLASS "B" ABOVE 175W THROUGH 400W, AND ZERO DEGREE FAHRENHEIT MINIMUM START-TEMPERATURE RATING. ELECTRONIC HID BALLASTS SHALL BE UTILIZED FOR METAL HALIDE LAMPS 150W OR LESS, ALL NEW METAL HALIDE LUMINAIRES WITH 150W TO 500W LAMPS PROVIDED ON THE PROJECT SHALL BE EQUIPPED WITH PULSE START BALLASTS TO COMPLY WITH SECTION 1602, CCR TITLE 20 APPLIANCE EFFICIENCY STANDARDS.

b. WHEN REMOTE HID BALLASTS ARE REQUIRED, CONTRACTOR TO COORDINATE PROPER WIRING SELECTION WITH FIXTURE MANUFACTURER BASED ON INSTALLATION-SPECIFIC DISTANCE REQUIREMENTS ON A PER FIXTURE BASIS. IF REMOTE ELECTRONIC HID BALLASTS ARE REQUIRED ON THE PROJECT AND EXCEED DISTANCE LIMITATIONS FOR ELECTRONIC HID BALLASTS, MAGNETIC BALLASTS SHALL BE PERMITTED FOR 150W AND LOWER WATTAGE HID FIXTURES. c. ACCEPTABLE MANUFACTURERS: ADVANCE, GE, SYLVANIA, UNIVERSAL OR VENTURE.

H. LIGHT FIXTURES INDICATED AS EMERGENCY SHALL BE IDENTIFIED / PROVIDED AS FOLLOWS: 1. INTEGRAL BATTERY PACK (EB): 3x/3EB - FIXTURE CONNECTED TO CIRCUIT "3", CONTROL SWITCHLEG "3" - WITH THE BATTERY CHARGING LEAD CONNECTED TO A CONSTANT HOT CIRCUIT "3". 3xL/3EB - FIXTURE CONNECTED TO A CONSTANT HOT CIRCUIT "3", BATTERY CHARGING LEAD CONNECTED TO A CONSTANT HOT CIRCUIT "3". 2. REMOTE BACK-UP SOURCE (EM): 3x/3EM - ROUTED THROUGH A U.L. LISTED TRANSFER RELAY (LC & D #69-2001E/S) FOR SWITCHED CONTROLS OR A U.L. LISTED TRANSFER SWITCH (BOONE #CTD SERIES DEVICE) FOR DIMMING CONTROLS, CONNECTED TO A CONSTANT HOT EMERGENCY CIRCUIT "3". USE DISTRIBUTED LIGHTING CONTROL SPECIFICATIONS FOR DEVICE REQUIREMENTS WHEN CONTROLLED BY OCCUPANCY SENSORS. 3xL/3EM - FIXTURE CONNECTED TO A CONSTANT HOT EMERGENCY CIRCUIT "3". REMOTE BACK-UP SOURCE (EM) NOTES: - ALL REMOTE BACK UP SOURCE (EM) FIXTURES SHALL BE PROVIDED WITH AN IN LINE FUSE. PROVIDE ADDITIONAL LABELING TO INDICATE FIXTURE IS PROTECTED BY A FUSE.

3. EMERGENCY BATTERY PACKS SHALL BE PROVIDED AS FOLLOWS: LINEAR T8 FLUORESCENT LAMPS: 8FT T8 1 LAMP 1400 LUMENS IOTA #I-320 OR BOONE #B50 8FT T8 1 LAMP 1225 LUMENS IOTA #I-320 OR BOONE #B50 4FT T8 2/1 LAMPS 1350/1350 LUMENS IOTA #I-320 OR BOONE #B50 2FT T8 2/1 LAMPS 1200/1100 LUMENS IOTA #I-320 OR BOONE #B50 2FT T8 2/1 LAMPS 1125/1100 LUMENS IOTA #I-320 OR BOONE #B50

LINEAR T5/T5HO FLUORESCENT LAMPS: 4FT T5HO 1 LAMP 1250 LUMENS IOTA #ISL-540 OR BOONE #LP600 3FT T5HO 1 LAMP 710 LUMENS IOTA #ISL-540 OR BOONE #LP600 2FT T5HO 1 LAMP 700 LUMENS IOTA #ISL-540 OR BOONE #LP600 4FT T5 1 LAMP 1200 LUMENS IOTA #ISL-540 OR BOONE #LP600 3FT T5 1 LAMP 850 LUMENS IOTA #ISL-540 OR BOONE #LP600 2FT T5 1 LAMP 700 LUMENS IOTA #ISL-540 OR BOONE #LP600

HIGH LUMEN COMPACT FLUORESCENT LAMPS (HXL): 55W BX1X 1 LAMP 1050 LUMENS IOTA #I-320 OR BOONE #LP600STU 50W BX1X 1 LAMP 1050 LUMENS IOTA #I-320 OR BOONE #LP600STU 40W BX1X 1 LAMP 1050 LUMENS IOTA #I-320 - NO KNOWN EQUAL. 36W BX1X 1 LAMP 1050 LUMENS IOTA #I-320 OR BOONE #B50 24W BX1X 1 LAMP 850 LUMENS IOTA #E84C5 - NO KNOWN EQUAL. 18W BX1X 1 LAMP 775 LUMENS BOONE #E84C5 - NO KNOWN EQUAL.

COMPACT FLUORESCENT LAMPS: 70W CFL 1 LAMP 1200 LUMENS BOONE #B75C - NO KNOWN EQUAL. 57W CFL 1 LAMP 1150 LUMENS IOTA #I-420 OR BOONE #B40C 42W CFL 1 LAMP 1250 LUMENS IOTA #I-420 OR BOONE #B40C 32W CFL 1 LAMP 1250 LUMENS IOTA #I-420 OR BOONE #B40C 26W CFL 1 LAMP 700 LUMENS IOTA #I-420 OR BOONE #B40C 18W CFL 1 LAMP 600 LUMENS IOTA #I-420 OR BOONE #B40C 15W CFL 1 LAMP 600 LUMENS IOTA #I-420 OR BOONE #B40C

LED LAMPS: BOONE #B5L23/#B5L722 SERIES - NO KNOWN EQUAL. TO MAINTAIN UL LISTING OF LED FIXTURE, FIXTURE MANUFACTURER(S) SHALL INSTALL LED EMERGENCY BALLASTS AT THE FACTORY AND OBTAIN A UL LISTING OF THE FIXTURE WITH EMERGENCY BALLAST. FIELD-INSTALLATION OF LED EMERGENCY BALLAST(S) IS PROHIBITED. SHOULD THE SPECIFIED LED EMERGENCY BALLAST(S) NOT FIT WITHIN A GIVEN FIXTURE(S), CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO LOCATE/CONNECT SELF-INDICATING MAIN WIRE(S) (IOTA #L5 SERIES OR BOONE #ELI-777-SD) REMOTELY FROM THE FIXTURE(S) IN THE NEAREST ELECTRICAL ROOM.

EMERGENCY BATTERY PACK NOTES: - PROVIDE INTEGRAL TEST SWITCH OPTION FOR ALL EMERGENCY BALLASTS INSTALLED IN DOWN LIGHTS. - CONTRACTOR TO VERIFY WITH FIXTURE MANUFACTURER(S) PRIOR TO BID THAT EMERGENCY BALLASTS ARE INTEGRAL TO FIXTURE HOUSINGS. SHOULD A BALLAST(S) NOT FIT WITHIN A GIVEN FIXTURE(S), CONTRACTOR SHALL INCLUDE ALL COSTS TO ADAPTE EMERGENCY BALLAST(S) REMOTELY FROM THE FIXTURE ABOVE THE NEAREST ACCESSIBLE ELECTRICAL ROOM. - PROVIDE "DL" OPTION IN ALL BAMP LABEL INSTALLATIONS.

5. ALL RECESSED DOWNLIGHTS SUPPLIED WITH A BATTERY PACK SHALL BE PROVIDED WITH AN INTEGRAL COMBINATION TEST SWITCH / CHARGING INDICATOR LIGHT - MOUNTED INSIDE THE REFLECTOR. REMOTE TEST SWITCH / CHARGING INDICATOR LIGHTS ARE NOT ALLOWED. THE TEST SWITCH / CHARGING INDICATOR LIGHT SHALL BE SECURELY ATTACHED TO THE REFLECTOR WITH "B" OF BLACK LEADS FOR EASY REMOVAL OF THE REFLECTOR ASSEMBLY. 6. BATTERY PACKS ALL SHALL BE PROVIDED WITH A COMBINATION TEST SWITCH / CHARGE LIGHT.

7. ALL DOWNLIGHTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LOCAL FIRE PREVENTION CODE AUTHORITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY HARDWARE SUCH THAT ALL EXIT SIGNS ARE INSTALLED IN AN APPROVED VISIBLE LOCATION. THE CONTRACTOR SHALL VERIFY CHIRONS AND NUMBER OF EXIT SIGNS PER EXIT SIGN WITH ARCHITECTURAL REFLECTED CEILING PLAN. ANY DISCREPANCIES BETWEEN EXIT SIGNS DETECTED ON ARCHITECTURAL AND ELECTRICAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS. 8. PROVIDE A SUBMITTAL / SHOP DRAWING SUBMITTAL PER THE GENERAL PRODUCT REQUIREMENT SECTION FOR EACH FIXTURE TYPE INCLUDING BALLAST(S). ANY LIGHTING FIXTURES SUBMITTED WITHOUT SPECIFIC FIXTURE(S) BALLAST INFORMATION SHALL BE REJECTED AS INCOMPLETE. IN ADDITION, SEE GENERAL LAMP SCHEDULE NOTES FOR SEPARATE LAMP SUBMITTAL REQUIREMENTS.

9. PROVIDE LAMPING PER LAMP SCHEDULE. 10. SOCKETS SHALL BE GENERAL ELECTRIC, BRANT, OR EQUAL WHITE, TWIST-TURN CONTACT TYPE. PUSH CONTACT TYPE SOCKETS WILL NOT BE ALLOWED. 11. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND INDIVIDUALLY SUPPORTED IN ACCORDANCE WITH APPLICABLE INDUSTRY AND SAFETY STANDARDS AND ALL NATIONAL AND LOCAL ELECTRICAL AND SEISMIC CODES. FIXTURES SHALL BE FURNISHED AND INSTALLED WITH ALL REQUIRED MOUNTING DEVICES, HARDWARE AND ACCESSORIES.

12. LOCATIONS OF FIXTURES SHALL BE PER THE ARCHITECTURAL REFLECTED CEILING PLAN AND SHALL BE COORDINATED AT TIME OF REVIEW. IN CONFLICTS BETWEEN THE ARCHITECTURAL REFLECTED CEILING PLAN AND THE ELECTRICAL PLANS SHALL BE OCCUPY TO THE ATTENTION OF THE ARCHITECT, IN WRITING, PRIOR TO ORDERING FIXTURES. 13. CONTRACTOR TO INCLUDE FIVE MINUTES OF AFTER DARK DIMMING/ADJUSTING TIME (TWO HOURS MINIMUM) FOR ANY ADJUSTABLE FIXTURE AND FOR EACH INDIVIDUAL FIXTURE HEAD OR LAMP HOLDER IN A MULTI-FIXTURE / MULTI-LAMP ASSEMBLY. FIXTURES TO BE ADJUSTED PER THE DIRECTION OF OWNER, ARCHITECT, AND ENGINEER.

14. ALL POLE MOUNTED FIXTURES, POST MOUNTED FIXTURES, AND BOLLARDS SHALL BE PROVIDED WITH A STRUCTURAL FOOTING AS DETAILED ELSEWHERE IN THE DRAWINGS. THE CAPITAL LETTER ADJACENT TO THE FIXTURE SYMBOL(S) INDICATES THE FOOTING TYPE - SEE ELECTRICAL DETAILS FOR MORE INFORMATION. 15. "NO KNOWN EQUAL" LIGHTING FIXTURE PRICING/BIDDING NOTES: 1. EACH FIXTURE IDENTIFIED AS "NO KNOWN EQUAL" ON THIS PROJECT SHALL BE BID IN A "LINE ITEM" FORMAT. A PER UNIT MATERIAL COST SHALL BE PROVIDED FOR EACH "NO KNOWN EQUAL" FIXTURE. THIS PRICE SHALL INCLUDE LAMPS AS WELL AS ALL OTHER REQUIRED MATERIALS REQUIRED FOR INSTALLATION. THE FIXTURE PRICE QUOTED WILL BE UTILIZED, PRIOR TO SHOP DRAWING APPROVAL, FOR "ADDING" AND/OR "DELETING" ANY QUANTITY OF THE FIXTURE. 2. A UNIT COST SHALL BE SUBMITTED FOR EACH "NO KNOWN EQUAL" FIXTURE. SUBMIT THE PRICING AS PART OF THE BID FORM ON A SEPARATE 8-1/2" X 11" SHEET AS FOLLOWS:

'NO KNOWN EQUAL' LINE ITEM / FIXTURE TYPE PER UNIT MATERIAL COST 1 \$ XXXXX/EACH 2 \$ XXXXX/EACH 3 \$ XXXXX/EACH

3. FAILURE TO SUBMIT A LINE ITEM FOR EACH "NO KNOWN EQUAL" FIXTURE WILL RESULT IN THE REJECTION, REFUND, OR NON-ACCEPTANCE OF THE CONTRACTORS BID. T. "NO EQUAL - OWNER STANDARD" LIGHTING FIXTURE PRICING/BIDDING NOTES: 1. FIXTURES IDENTIFIED AS "NO EQUAL - OWNER STANDARD" ARE TO BE PROVIDED AS SPECIFIED. 2. SUBSTITUTIONS ARE STRICTLY PROHIBITED.

LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	MANUFACTURER AND MODEL NUMBER	FIXTURE WATTAGE	LAMP OPTION	GENERAL DESCRIPTION
□	1	METALUX VIZ VIZ-232-08-777-EB81-SSL	58/59	F13/3500	SURFACE MOUNTED FLUORESCENT, 2 LAMP WITH FIBERGLASS HOUSING, POLYURETHANE GASKET, STAINLESS STEEL, LATCHES, AND HIGH IMPACT ACRYLIC LENS. U.L. LISTED FOR WET LOCATIONS.
□	2	MCGRAW EDISON VOLTUS LED FTY-B17-LED-777-T4-B2-LCF	285	LED	SINGLE LED FIXTURE, POLE MOUNTED AT +15'-0" ABOVE GRADE, TYPE 14 DISTRIBUTION, (12) 21 LIGHTBARS, DIE-CAST ALUMINUM FRAME AND EXTRUDED ALUMINUM HEAT SINK. PROVIDE 15'-0" ROUND ALUMINUM POLE MCGRAW EDISON #PSA4M15NA. BRONZE FINISH.
□	3	SURE-LITES TR11-1-6-WH-20	-	-	SURFACE MOUNTED 2x1-LUMINOUS EXIT SIGN WITH HIGH IMPACT FLAME RETARDANT WHITE PLASTIC HOUSING. PROVIDE CHIRONS PER ARCHITECTURAL PLANS.
□	4	METALUX VIZ VIZ-232-08-777-EB81-SSL	58/59	F13/3500	WALL MOUNTED FLUORESCENT, 2 LAMP, WITH FIBERGLASS HOUSING, POLYURETHANE GASKET, STAINLESS STEEL, LATCHES, AND HIGH IMPACT ACRYLIC LENS. U.L. LISTED FOR WET LOCATIONS.
□	5	EQUAL BY:	-/-	-/-	
□	6	EQUAL BY:	-/-	-/-	
□	7	EQUAL BY:	-/-	-/-	
□	8	EQUAL BY:	-/-	-/-	
□	9	EQUAL BY:	-/-	-/-	
□	10	EQUAL BY:	-/-	-/-	
□	11	EQUAL BY:	-/-	-/-	
□	12	EQUAL BY:	-/-	-/-	
□	13	EQUAL BY:	-/-	-/-	
□	14	EQUAL BY:	-/-	-/-	
□	15	EQUAL BY:	-/-	-/-	

SEE GENERAL LIGHTING FIXTURE SCHEDULE NOTES FOR CRITICAL FIXTURE SPECIFICATION AND ORDERING INFORMATION.

FLUORESCENT LAMP SCHEDULE

TYPE	MANUFACTURER AND MODEL NUMBER	WATTS / VOLTAGE	I-LUMENS	C.R.I.	LF	C.B.C.P.	"K" +/-	GENERAL DESCRIPTION
F13	G.E. #F32T8/SPX17/EEO EQUA. BY: OSRAM SYLVANIA AND PHILIPS	32w / N/A	2950 / 2800	86	20,000	N/A / N/A	3000 / N/A N/A / N/A 1100 / N/A 5000 / N/A	4'-0" FLUORESCENT T8 LAMP WITH A MEDIUM BIPIN BASE TCLP COMPLIANT

GENERAL LAMP SCHEDULE NOTES:

A. THE LAMPS FOR THIS PROJECT HAVE BEEN SPECIFIED TO INSURE THAT SPECIFIC AESTHETIC AND PERFORMANCE REQUIREMENTS WILL BE SATISFIED. THESE PRODUCTS HAVE BEEN CAREFULLY RESEARCHED AND EACH SPECIFIED ITEM HAS UNIQUE QUALITIES WHICH WERE DETERMINED TO BE ESSENTIAL IN SATISFYING THE OWNERS, ARCHITECTS, AND ENGINEERS DESIGN CRITERIA, WHILE STILL FITTING WITHIN THE ESTABLISHED PROJECT BUDGET. B. SUBSTITUTIONS OF THE SPECIFIED PRODUCTS ARE STRICTLY PROHIBITED - UNLESS APPROVED AS STATED HEREIN. LAMP SUBSTITUTIONS SHALL BE FORMALLY PRESENTED TO THE ENGINEER, BY APPOINTMENT ONLY, AT LEAST TEN (10) WORKING DAYS PRIOR TO BID TIME. THE SUBMITTAL MATERIAL SHALL INCLUDE THE FOLLOWING ITEMS:

1. A CURRENT ORIGINAL CATALOG DATA SHEET WITH LAMP CATALOG NUMBERS. MODIFIED DATA SHEETS WILL NOT BE ACCEPTABLE. 2. A SIGNED COPY OF THE "SUBSTITUTION COMPLIANCE FORM", LOCATED IN THE DIVISION 1 SPECIFICATION, STATING THAT IF THE PROPOSED SUBSTITUTION IS ACCEPTED, THE PROJECT SCHEDULE WILL NOT BE NEGATIVELY EFFECTED. IF THE COMPLETION OF THE PROJECT IS DELAYED BECAUSE OF THE APPROVED SUBSTITUTION, THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR PAYMENT OF ANY ESTABLISHED LIQUIDATED DAMAGES.

C. CONFLICTS BETWEEN CATALOG NUMBERS AND LAMP DESCRIPTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, PRIOR TO BID TIME, FOR CLARIFICATION. D. UNLESS SPECIFIED OTHERWISE, FURNISH AND INSTALL ALL LAMP(S), AS REQUIRED, FOR EACH FIXTURE INDICATED ON THE DRAWINGS.

E. CONTRACTOR TO REPLACE ALL FAULDED LAMPS, AS REQUIRED, UNTIL WRITTEN ACCEPTANCE OF THE PROJECT IS EXECUTED BY THE OWNER. F. AT THE COMPLETION OF THE PROJECT, CONTRACTOR SHALL PROVIDE TO THE OWNER AN ADDITIONAL 5% (MINIMUM QUANTITY OF TWO) STOCK OF LAMPS FOR EACH LAMP TYPE UTILIZED ON THE PROJECT.

G. "Y" SYMBOLS IN THE LAMP MODEL NUMBER INDICATE A LAMP OPTION THAT IS IDENTIFIED IN THE LIGHTING FIXTURE SCHEDULE "LAMP" COLUMN. H. THE FOLLOWING INFORMATION IS PROVIDED IN THE LAMP SCHEDULE:

- WATTS = NOMINAL LAMP WATTAGE - AS DEFINED BY FTC LABEL RULES.
- VOLTS = LAMP OPERATING VOLTAGE - WHEN RELEVANT AS DEFINED BY FTC LABEL RULES.
- I-LUMENS = MINIMUM REQUIRED INITIAL LUMENS - AS DEFINED BY FTC LAMP LABEL RULES.
- M-LUMENS = MINIMUM REQUIRED MEAN LUMENS - AS DEFINED BY FTC LAMP LABEL RULES.
- C.R.I. = MINIMUM REQUIRED COLOR RENDERING INDEX RATING.
- LF = MINIMUM REQUIRED LIFE RATING IN HOURS - AS DEFINED BY FTC LAMP LABEL RULES.
- C.B.C.P. = MINIMUM REQUIRED CENTER BEAM CANDLE POWER RATING.
- B. SPREAD = MINIMUM REQUIRED BEAM SPREAD, 3'.
- "K" = REQUIRED COLOR TEMPERATURE RATING.
- "K +/-" = MINIMUM ALLOWABLE COLOR TEMPERATURE SHIFT.

I. PROVIDE SUBMITTAL DATA PER THE GENERAL SPECIFICATION REQUIREMENTS FOR EACH TYPE OF LAMP USED ON THE PROJECT CONSISTING OF A LAMP MANUFACTURER'S CUT SHEET WITH ALL INFORMATION INCLUDED IN LAMP SCHEDULE. INCLUDE THE LAMP SCHEDULE IDENTIFIER ON EACH SHEET.

FOR ALL MERCURY-CONTAINING LAMPS, SUBMITTAL MUST ALSO INCLUDE DOCUMENTATION SHOWING MERCURY CONTENT IN MILLIGRAMS PER LAMP (MG/LAMP). INFORMATION SHALL BE OBTAINED FROM MFGS OR DIRECTLY FROM MANUFACTURER. PLEASE NOTE THAT MERCURY VALUES GENERATED FROM TLP TESTS ARE NOT ACCEPTABLE AS THEY ARE RECORDS IN MILLIGRAMS PER LITER (MG/L) OF TEST SOLUTION AND DO NOT REFLECT TOTAL MERCURY CONTENT OR MERCURY CONCENTRATION IN THE LAMP.

DANA POINT HARBOR REVITALIZATION
 COUNTY OF ORANGE
 DANA POINT HARBOR DRIVE



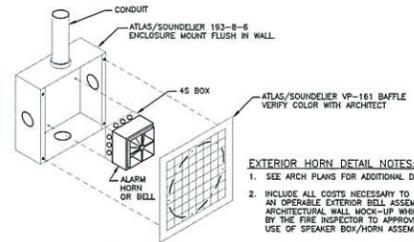
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LIGHTING FIXTURE SCHEDULE

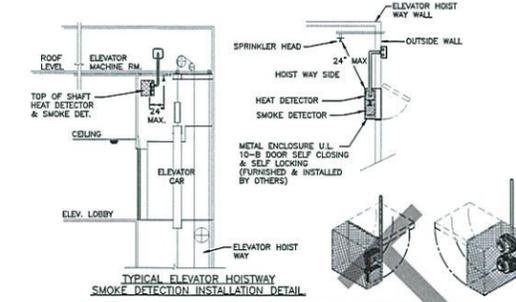
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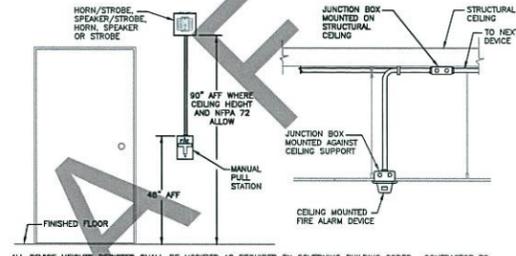
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EXTERIOR FLUSH HORN DETAIL ②
SCALE: N.T.S.

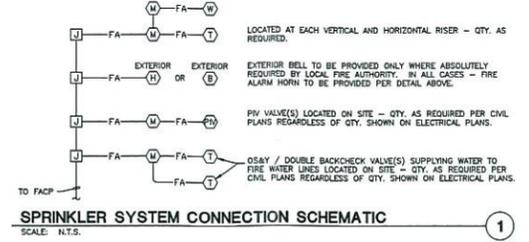


ELEVATOR SHAFT FIRE ALARM DEVICE DETAIL ③
SCALE: N.T.S.



ALL DEVICE HEIGHTS DEPICTED SHALL BE MODIFIED AS REQUIRED BY GOVERNING BUILDING CODES. CONTRACTOR TO VERIFY/RECONCILE APPLICABLE CODE REQUIREMENTS AND ANY DEVICE HEIGHT REQUIREMENTS DEPICTED ON ARCHITECTURAL OR INTERIOR DESIGN PLANS & SPECIFICATIONS PRIOR TO DEVICE ROUGH-IN. CONFLICTS OR LACK OF MOUNTING HEIGHT SPECIFICITY ON THE ARCHITECTURAL OR INTERIOR DESIGN PLANS & SPECIFICATIONS SHALL BE CAUSE FOR THE CONTRACTOR TO ISSUE A FORMAL WRITTEN RFI FOR RESOLUTION. DEVICE MOUNTING HEIGHT CLARIFICATIONS/SPECIFICATIONS SHALL NOT RESULT IN AN ADDITIONAL COST TO THE OWNER - CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID.

DEVICE MOUNTING DETAILS ④
SCALE: N.T.S.



D R A W I N G

DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



K
18221 Wilshire Ave • Burbank, CA 91508
(714) 888-4320 • (714) 888-4210 Fax
www.kennedy.com
JOEY LEDBETTER



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CENTRAL MONITORING SYSTEM DETAILS

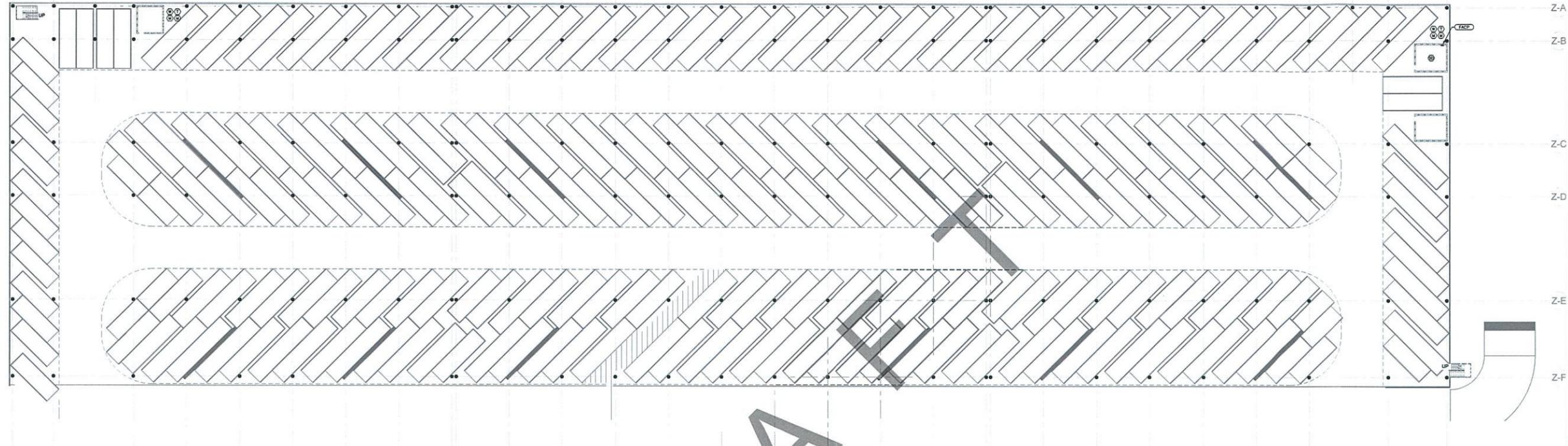
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Tel: 714.888.4320 • Fax: 714.888.4210
www.mve.com

F:\11306_Dana Point Harbor\03 Plumbing Details\0211306-03-07E21.dwg, E702, 4/9/2011 4:33:25 PM, Newmark, LT

Z-1 Z-2 Z-3 Z-4 Z-5 Z-6 Z-7 Z-8 Z-9 Z-10 Z-11 Z-12 Z-13 Z-14 Z-15 Z-16 Z-17 Z-18 Z-19 Z-20 Z-21 Z-22 Z-23 Z-24 Z-25 Z-26 Z-27 Z-28 Z-29 Z-30 Z-31



CENTRAL MONITORING PLAN - LEVEL 1
SCALE: 3/8" = 1'-0"

DRAFT

DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



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PARKING GARAGE LVL 1 CENTRAL MONITORING PLAN

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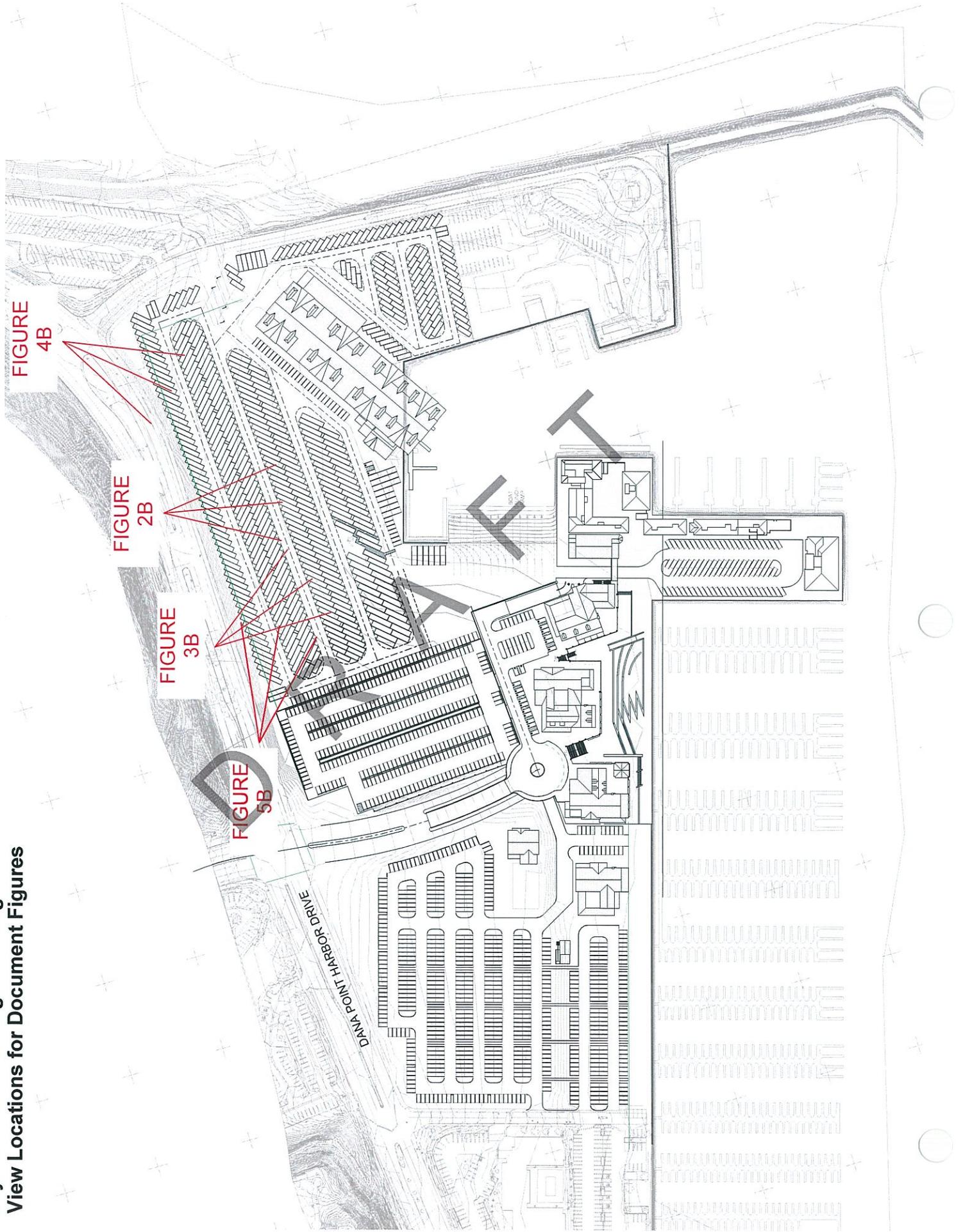
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**DANA POINT HARBOR DRY BOAT STORAGE ANALYSIS
APPENDIX E - VIEW LOCATIONS FOR DOCUMENT FIGURES**

DRAFT

**Dry Stack Boat Storage Building
View Locations for Document Figures**



**Dry Bo Storage Deck
View Locations for Document Figures**

