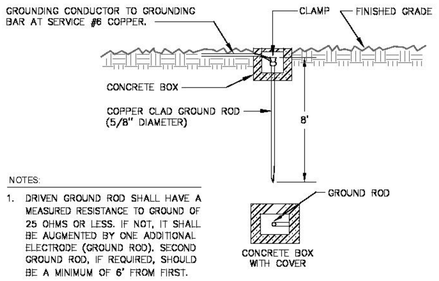
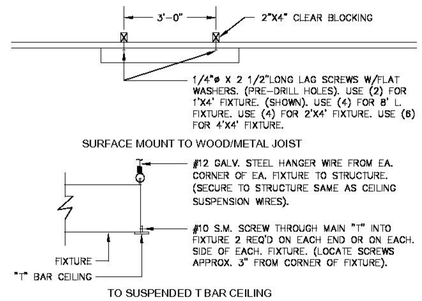


NOTES:

1. DRIVEN GROUND ROD SHALL HAVE A MEASURED RESISTANCE TO GROUND OF 25 OHMS OR LESS. IF NOT, IT SHALL BE AUGMENTED BY ONE ADDITIONAL ELECTRODE (GROUND ROD). SECOND GROUND ROD, IF REQUIRED, SHOULD BE A MINIMUM OF 6' FROM FIRST.

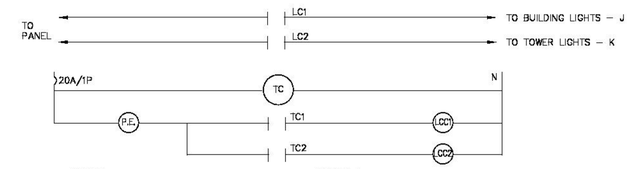
DRIVEN GROUND ROD DETAIL (1 / E5)

NO SCALE



DETAIL - HANGING OF FLUORESCENT FIXTURE (5 / E5)

NO SCALE



NOTES:

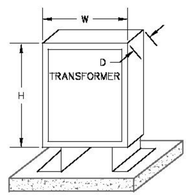
1. ALL CONTROL WIRING TO BE #12THWN COPPER IN 1/2"C WHERE EXPOSED.
2. TIMECLOCK TO BE TORK MODEL DZS200A–120V. (2 CHANNEL)
3. RATINGS OF CONTACTORS TO MATCH CIRCUIT BREAKER.
4. MOUNT TIMECLOCK AND CONTACTORS IN LIGHTING CONTROL CABINET.
5. ALL EXTERIOR LIGHTS TO BE CONTROLLED BY P.E. CELL ON, TIMECLOCK OFF.

SYMBOLS:

- (CCn) LIGHTING CONTACTOR COIL
- LCn LIGHTING CONTACT CONTROLLED BY LCn.
- (TC) TIME CLOCK
- (P.E.) PHOTOELECTRIC CELL
- TCn TIMECLOCK CONTACT CONTROLLED BY TCn.

LIGHTING CONTROL DIAGRAM (9 / E5)

NO SCALE



NOTES:

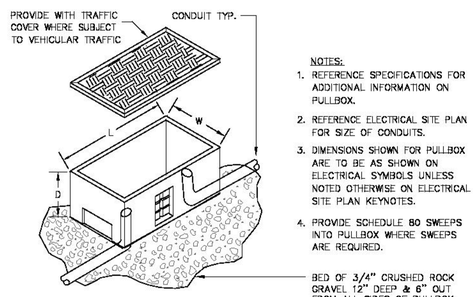
1. TRANSFORMER TO BE MOUNTED ON PAD WITH ANCHOR BOLTS 3/4" X 6" LAG.
2. CONCRETE PAD 2000 PSI MIN. PAD TO EXTEND 4" ON ALL SIDES AND 4" DEEP.
3. ALL TRANSFORMERS SHOWN ARE TO BE PROVIDED IN NEMA 3R.

TRANSFORMER SCHEDULE

TRANSFORMER		DIMENSIONS		
NAME	KVA	WIDTH	HEIGHT	DEPTH
T–1	37.5	32"	32"	24"
T–2	37.5	32"	32"	24"
T–3	75	40"	36"	30"

TRANSFORMER PAD DETAIL (2 / E5)

NO SCALE



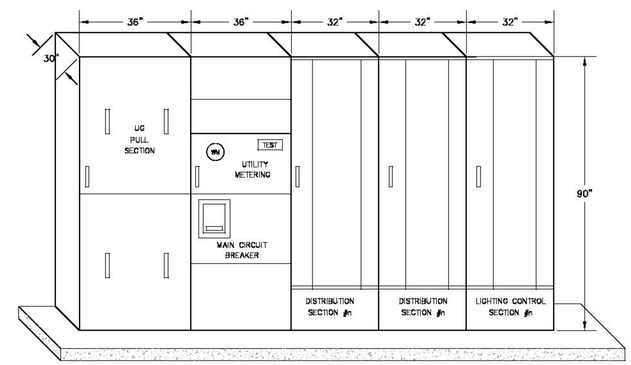
NOTES:

1. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON PULLBOX.
2. REFERENCE ELECTRICAL SITE PLAN FOR SIZE OF CONDUITS.
3. DIMENSIONS SHOWN FOR PULLBOX ARE TO BE AS SHOWN ON ELECTRICAL SYMBOLS UNLESS NOTED OTHERWISE ON ELECTRICAL SITE PLAN KEYNOTES.
4. PROVIDE SCHEDULE 80 SWEEPS INTO PULLBOX WHERE SWEEPS ARE REQUIRED.

BED OF 3/4" CRUSHED ROCK GRAVEL 12" DEEP & 6" OUT FROM ALL SIDES OF PULLBOX

PULLBOX INSTALLATION DETAIL (7 / E5)

NO SCALE

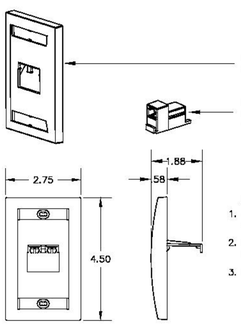


NOTES:

1. SWITCHBOARD SHOWN W/O ENCLOSURE. PROVIDE IN NEMA 1 ENCLOSURE.
2. SWITCHBOARD TO BE MOUNTED TO PAD AND WALL WITH ANCHOR BOLTS 3/4" X 8" LAG (1) AT EACH CORNER.
3. ORDERING INFORMATION ON SWITCHGEAR MAY BE OBTAINED FROM SQUARE D SWITCHBOARDS.
4. PROVIDE 3' CLEAR WORKING SPACE IN FRONT.
5. REFERENCE SINGLE LINE AND ELECTRICAL SITE PLAN FOR QUANTITY AND SIZE OF CONDUITS STUBBING OUT OF PAD.
6. E.C. TO MOUNT CONTROL ENCLOSURES ON OPPOSITE WALL OF SWITCHBOARD. REF PLAN.
7. FULL COMPONENT INTEGRATED EQUIPMENT RATING OF MAIN SWITCHBOARD TO BE 30,000AIC, AS SPECIFIED IN UL STD 891.
8. SWITCHBOARD TO HAVE SUFFICIENT SPACE TO MOUNT QUANTITY AND TYPE OF CIRCUIT BREAKERS AS SHOWN ON SINGLE LINE DIAGRAM AND A.C. BREAKERS ASSIGNMENTS.

SERVICE SWITCHBOARD ELEVATION - TYPICAL OF 2 (10 / E5)

NO SCALE

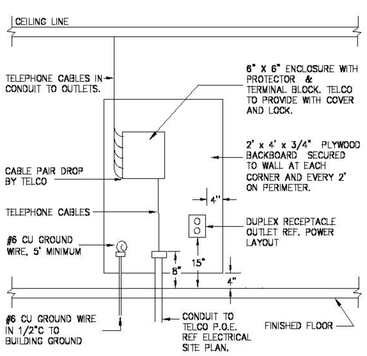


NOTES:

1. JACK TO BE PANDUIT NETWORK CABLING SYSTEM SERIES.
2. REF COMMUNICATIONS LAYOUT FOR LOCATION OF OUTLETS.
3. PROVIDE (1) MODULAR JACK FOR TELEPHONE AND (1) FOR DATA.

COMPUTER/TELEPHONE JACK (3 / E5)

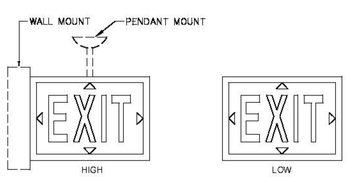
NO SCALE



NOTE:
CONTRACTOR TO CONTACT TELCO FOR SIZE CONDUIT REQUIRED.

TELEPHONE BACKBOARD ELEVATION (4 / E5)

NO SCALE



PN – NX–606–TRI/G10
NORA LIGHTING – (800) 686–6672

NOTES:

1. EXIT SIGN LUMINOUS AREAS SHALL HAVE A MINIMUM AVERAGE BRIGHTNESS OF 0.120 FOOT LAMBERTS UPON INSTALLATION. THE MINIMUM USEFUL LIFE SHALL BE 10 YEARS AS CONFIRMED BY AN INDEPENDENT TESTING LABORATORY. LUMINOUS ELEMENTS SHALL BE FIELD REPLACEABLE BY SIMPLE REMOVAL OF THE FACE OF THE UNIT. THEY SHALL FUNCTION WITH NO EXTERNAL EMERGENCY SOURCE. THE LUMINOUS ELEMENTS SHALL CONSIST OF SEALED, TRITIUM–FILLED GLASS TUBES WITH INTERNAL PHOSPHOR COATING ENCASED WITHIN IMPACT–RESISTANT, CLEAR PLASTIC SLEEVES. THE UNIT SHALL BE MOUNTED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. PENDANT MOUNT, BRIGHT RED/WHITE BORDERS, SILVER SATIN ANODIZED FINISH.
2. PROVIDE HIGH LOW COMBINATION AT GROUP A OCCUPANCIES (100 OR MORE PEOPLE) IN RATED 1 HR CORRIDORS WHICH ARE UNSPRINKLED.

–APPROVALS
*UL 924 LISTED
*NRC
*NFPA
*OSHA
*COUNCIL OF AMERICAN BUILDING OFFICIALS (BOCA), (ICBO, SBCC)
*CITY OF LOS ANGELES
*STATE OF CALIFORNIA

SELF ILLUMINATED EXIT SIGN DETAIL (8 / E5)

NO SCALE

CITY OF SAN CLEMENTE
Department of Beaches, Parks & Recreation

AVENIDA VISTA HERMOSA / AVENIDA LA PATA PARK (PHASE-1B)
ELECTRICAL DETAILS

Scale: AS SHOWN | Drawing Number: E-5 | Sheet Number: Sheet 114 of 178

APPROVED BY: Al Krug, Director of Beaches, Parks & Recreation — DATE

BH Gomez, CITY ENGINEER — DATE

BENCH MARK:

ELEV. = 249.8897 DATUM= NGVD 29(1988) DOS ADJUSTED

SOUTHWEST CORNER OF THE INTERSECTION OF AVENIDA VISTA HERMOSA AND AVENIDA LA PATA, AT EASTERLY EXTENSION OF CENTERLINE OF AVENIDA POCO, SOUTHERLY OF THE CENTERLINE OF AVENIDA VISTA HERMOSA, WEST OF THE CORNER OF A 4'X4' CATCH BASIN, BEHIND CURB FACE.

ELECTRICAL SWITCHGEAR

NO.	DESCRIPTION	REVISED BY	APPROVED BY	DATE
#1	ADDED RR BUILDING TO SET	RM	JA	10/28/09

REVISION

1-800-422-4133 DIGALERT
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA
"UTILITIES IS PROVIDED TO THE DEGREE & EXTENT OF INFORMATION OBTAINED FROM RECORDS OF THE UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA. THE DEPARTMENT MAKES NO REPRESENTATION REGARDING THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION."
CONTRACTOR SHALL CONTACT THE UNDERGROUND SERVICE ALERT AT 1-800-422-4133 48 HOURS PRIOR TO DIGGING.

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www.dreamengineering.com email: info@dreamengineering.com

PLANS PREPARED BY:
Dream Engineering Inc.
Consulting Electrical Engineers

DESIGNED BY: JH	DATE: 02/11/08	
DRAWN BY: JH	DATE: 02/11/08	
CHECKED BY:	DATE:	
UNDER THE SUPERVISION OF: JUAN A. ARAUJO EE 16537	DATE 10/16/2008	

REGISTERED PROFESSIONAL ENGINEER JUAN A. ARAUJO E 16537 EXP: DEC. 31 2009 ELECTRICAL STATE OF CALIFORNIA

BID SET

Dec 03, 2009 – 8:12am\Server\Ut\DRAWINGS\La Pata Hermosa Park\Vista Park\Vista16E3.dwg