



SSH JV

Milpitas Station Design Unit 023 Readiness for Construction Electrical

SVBX C700

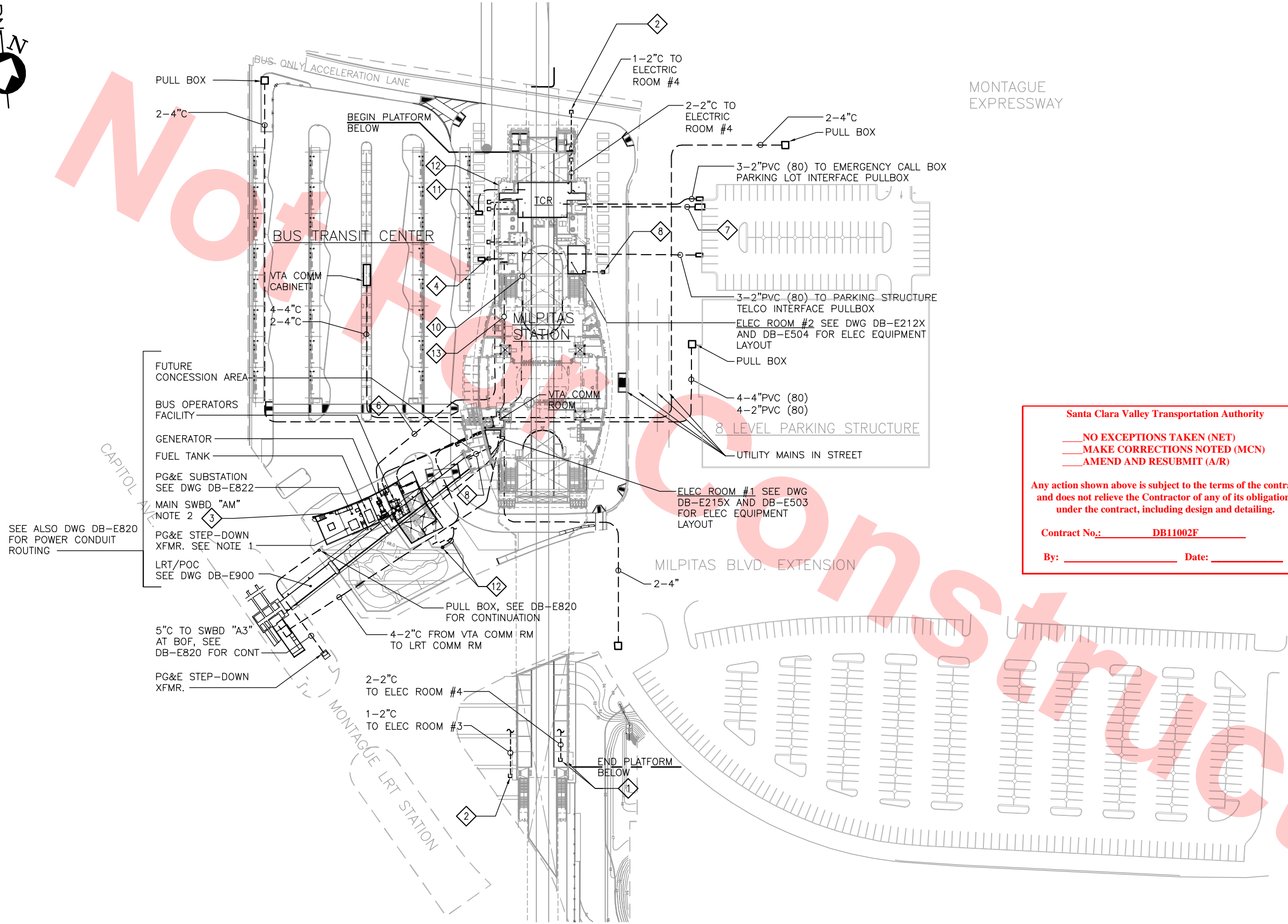
Wednesday, July 10, 2013

HALF SIZE
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TYLIN INTERNATIONAL
engineers | planners | scientists

Jun 24, 2013 - 2:50pm C:\GIS\Maravilla\Milpitas Station\Project\Drawings\Sheet\CT00-S-DB-E000.dwg



ELECTRICAL SITE KEY PLAN

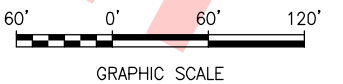
SCALE: 1"=60'
DB-A050

KEY NOTES

- 1 FOR TRACKSIDE LIGHTING PANELBOARDS AND DOUBLE CROSSOVER TRACK LIGHTING SEE CONTRACT DOCUMENTS. C700 CONTRACTOR TO EXTEND CONDUITS FROM PANELBOARDS TO STATION POWER DISTRIBUTION PANELS.
- 2 1-2"C TO RAIL LUBRICATOR. CONTRACTOR TO EXTEND CONDUIT FROM LUBRICATOR TO STATION DISTRIBUTION PANELBOARD.
- 3 (8)5"C & (2)2"C FROM MAIN SWBD. "AM" TO THE INTERFACE POINT OF THE 480V PG&E INCOMING POWER SUPPLY.
- 4 3-2"C FROM TELCO ROOM TO THE TELEPHONE SERVICE PROVIDER PULLBOX AT THE STATION/CAMPUS BOUNDARY.
- 5 3-2"C FROM TCR TO PARKING LOT EMERGENCY CALL BOX SYSTEM.
- 6 2-2"C FROM TCR TO GENERATOR CONTROLLER.
- 7 4-4"C, 4-2"C FROM TCR, UNDER UTILITY MAINS IN STREET, TO THE PARKING STRUCTURE COMMUNICATION INTERFACE MANHOLE. EXTENSION BY C720 CONTRACTOR.
- 8 3-2" FROM ELECTRICAL ROOM TO CAMPUS POWER (LIGHTING AND MISCELLANEOUS) INTERFACE PULLBOXES.
- 9 2-4"C FROM VTA COMM PULLBOX TO VTA COMM ROOM.
- 10 4-4"C FROM TCR TO TO VTA COMM. ROOM.
- 11 3-2"C TO BIKE STORAGE FACILITY.
- 12 IRRIGATION MASTER VALVE JUNCTION BOX, SEE LANDSCAPE PLAN, DWG. DB-L304 AND DB-L351 FOR LOCATION. SEE LANDSCAPE DRAWING DB-L301 AND ELEC. DWG. DB-E211X FOR CONTROLLER AND CONDUIT CONNECTION.
- 13 3-2"C BETWEEN TELCO ROOM AND VRA COMMUNICATION ROOM.

NOTES

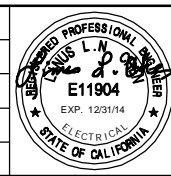
1. 480/277V, 3-PH, 4-WIRE SERVICE WILL BE ORIGINATING FROM PG&E STEP-DOWN TRANSFORMER.
2. CONTRACTOR TO EXTEND DUCT FROM PG&E PAD MOUNTED STEP-DOWN TRANSFORMER TO THE PULL SECTION OF SWITCHBOARD AM, SEE DWG DB-E821.
3. ALL CONDUIT RUNS FOR MEDIUM VOLTAGE CONTROL/COMMUNICATION, ETC., CONSULT WITH SYSTEM ELECTRICAL ENGINEERS FOR DETAIL.



GRAPHIC SCALE

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1436 California Circle
Milpitas, California 95035
A Joint Venture
Submitted

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lookwood, Andrews
& Nowman, Inc.
T-Y-LIN INTERNATIONAL
Approved








































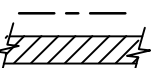


















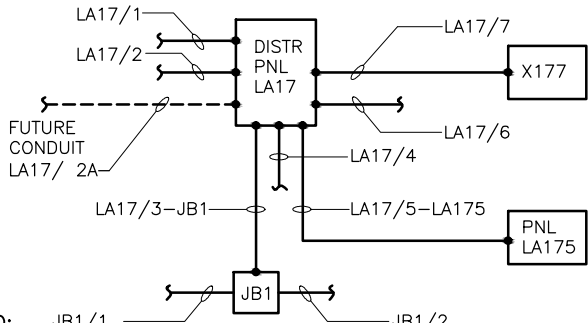












LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION

ELECTRICAL SITE KEY PLAN

CADD FILENAME C700-S-DB-E000.dwg	REV.
SIZE D	1"=60'
CONTRACT NO. C700	0
AREA CODE DB	SHEET NO. E000
PAGE NO. 0826	

Jun 21, 2013 -- 4:38pm G:\Cities Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E001.dwg

AMPERE A/G AASHTO AB ABD ABUT ABV AC ACU ACCP ACI ACP ADJ AFC AFF AFG AHD AISC ALUM ALT AM AMD ANCH ANN ANSI APPROX ARC ARCH AREMA AS ASSY ASTM AT ATM ATP ATR ATS AUX AVE AVG AWG AWS B/B BATT BC BCB BD BEG BFG BCM BK BKR BL BLDG BLVD BM BPS BSD BR BRKT BTM BTWN C C TO C CAB CAP CB CE CF CHAM CHGR CIC CKT C CLF CLFU CLG CLR CLT CND COMM COMP CONC COND CONST CONT CONTR CPCB CPT CR CS CSD	AT GRADE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AIRBREAK, ANCHOR BOLT ABANDON, ABANDONED ABUTMENT ABOVE ALTERNATING CURRENT AIR CONDITIONING UNIT AIR CONDITIONING CONTROL PANEL AMERICAN CONCRETE INSTITUTE AC PANEL ADJACENT AUTOMATIC FARE COLLECTION ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AHEAD AMERICAN INSTITUTE OF STEEL CONSTRUCTION ALUMINUM ALTERNATE AMMETER AUTOMATIC MOTORIZED DAMPER ANCHOR ANNUNCIATOR AMERICAN NATIONAL STANDARDS INSTITUTE APPROXIMATE ARMORED CABLE ARCHITECTURAL/ARCHITECT AMERICAN RAILWAY ENGINEERING & MAINTENANCE OF WAY ASSOCIATION AMMETER SWITCH ASSEMBLY AMERICAN SOCIETY FOR TESTING & MATERIALS AMMETER TRANSDUCER ALONG TRACK MOVEMENT AMPERE TRIP ABOVE TOP OF RAIL AUTOMATIC TRANSFER SWITCH AUXILIARY AVENUE AVERAGE AMERICAN WIRE GAUGE AMERICAN WELDING SOCIETY BACK-TO-BACK BATTERY BRANCH CIRCUIT BRANCH CIRCUIT BREAKER BOARD BEGIN BELOW FINISH GRADE BILL CHANGE MACHINE BACK BREAKER BASELINE OR BLUE LIGHT BUILDING BOULEVARD BEAM BOLTED PRESSURE SWITCH BARE SOFT DRAWN BRIDGE BRACKET BOTTOM/BUS TRANSFER MACHINE BETWEEN CELSIUS CENTERLINE TO CENTERLINE CABINET CAPACITOR CIRCUIT BREAKER CONCRETE ENCASED CUBIC FEET CHAMFER CHARGER COMMUNICATIONS INTERFACE CABINET CIRCUIT CENTERLINE CHAIN LINK FENCE CURRENT-LIMITING FUSE CEILING CLEARANCE, CLEAR CURRENT-LIMITING CONDUIT COMMUNICATIONS COMPARTMENT, COMPRESSOR CONCRETE CONDUCTOR CONSTRUCTION CONTINUATION, CONTINUOUS CONTRACTOR CONTROL POWER CIRCUIT BREAKER CONTROL POWER TRANSFORMER CONDUIT RISER CURVE TO SPIRAL, CONTROL SWITCH COMBINED SYSTEM DUCTBANK	CT CTR CTRL CTS CU CY D DB DC DCP DE DEG DET DIA DIM DISC DISC SW DISTR DPM DPP DSG DT DWG E EA EB EC EE EF EHS EL ELEC ELEV EMERG EMP EO EOS EP EPB EQ EQN EQUIP ES ESC EST ETC EXIST, (E) EXT F F/F FA FAC FACP FBO FD FDN FDR FG FHC FIG FIN FIX FL FLSW FLUR FOS FP FSD FSW FT FTG FU FURN FVNR FWY G G/L GA GALV GB GBS GCP GF GFI GFP GG GHS GND GR GRS GRSC GRX GTS	CURRENT TRANSFORMER CENTER CONTROL COMMUNICATION TRANSMISSION SYSTEM COPPER, CONDENSING UNIT CUBIC YARD DEPTH DIRECT BURIED, DUCT BANK DIRECT CURRENT DC PANEL DEAD END DEGREE DETAIL DIAMETER DIMENSION DISCONNECT DISCONNECT SWITCH DISTRIBUTION DIGITAL POWER METER DISTRIBUTION POWER PANEL DISCONNECT SWITCH GROUP DOUBLE-THROW DRAWING EAST EACH EASTBOUND EMPTY CONDUIT ELECTRICAL ENCLOSURE, EMERGENCY EXIT EXHAUST FAN EXTRA HIGH STRENGTH ELEVATION ELECTRIC, ELECTRICAL ELEVATOR EMERGENCY EMERGENCY MANAGEMENT PANEL ELECTRICALLY OPERATED ELECTRICALLY OPERATED SWITCH EXPLOSION PROOF EMERGENCY PUSH BUTTON EQUAL EQUATION EQUIPMENT EXTRA STRENGTH ESCALATOR ESTIMATED ET CETERA EXISTING EXTINGUISHER FAHRENHEIT FACE TO FACE FIRE ALARM FACILITY FIRE ALARM CONTROL PANEL FURNISHED BY OTHERS FIRE DEPARTMENT FOUNDATION FEEDER FINISHED GRADE FIRE HOSE CABINET FIGURE FINISH FITTURE FLOOR FLOW SWITCH FLUORESCENT FACTOR OF SAFETY FULL PENETRATION FIRE SMOKE DAMPER FUSED SWITCH FEET, FOOT FOOTING FUSE FURNISH FULL VOLTAGE NON-REVERSING FREEWAY GENERATOR SET GROUND LINE GAUGE GALVANIZED GROUND BUS GAP BREAKER STATION GENERATOR CONTROL PANEL GROUND FAULT GROUND FAULT INTERRUPTER GROUND FAULT PROTECTION GROUND GRID GALVANIZED HIGH STRENGTH GROUND GROUND ROD GALVANIZED RIGID STEEL GALVANIZED RIGID STEEL CONDUIT GRADE CROSSING GROUND TEST STATION	HD HDG HEX HH HID HO HOASW HORZ HP HPS HRL HS HT HV HVSS HVAC HWY HZ I OR INTLK I/L IC ID IDS IEEE IN INC INCT INSR INST IPPBX ISO-G ITC J JB/JBOX JCT kA KCMIL KSF KSI kV kVA KVAR kW kWH LA LB LB/FT LED LF LG LGTH LOC LPS LPT LR LS LT LTG LV M MAX MCC MCM MDB MECH MH MI MIN MISC MLO M MOE MOS MOW MPH MR MTD MTR mV MVA MW (N) N N/A NAG NB NBR NC	HARD DRAWN HOT DIP GALVANIZED HEXAGONAL HANDHOLE HIGH-INTENSITY DISCHARGE HAND-OPERATED HAND-OFF-AUTOMATIC SWITCH HORIZONTAL HORSEPOWER HIGH-PRESSURE SODIUM HIGH RAIL LEVEL HIGH STRENGTH HEIGHT HIGH VOLTAGE HIGH VOLTAGE SUBSTATION HEATING, VENTILATION & AIR CONDITIONING HIGHWAY HERTZ INTERLOCK INTERLOCKING INTERRUPTING CAPACITY INSIDE DIAMETER INTRUSION DETECTION SYSTEM INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INCH, INCHES INCOMING INCANDESCENT INSULATOR INSTANTANEOUS INTERNET PROTOCOL PRIVATE BRANCH EXCHANGE ISOLATED GROUND INTERFACE TERMINAL CABINET JUMPER JUNCTION BOX JUNCTION KILOAMPERE THOUSAND CIRCULAR MILS KIPS PER SQUARE FOOT KIPS PER SQUARE INCH KILOVOLT KILOVOLT AMPERE KILOVAR KILOWATT KILOWATT HOUR LIGHTNING ARRESTER POUND, POUNDS POUNDS PER FOOT LIGHT EMITTING DIODE LINEAR FOOT LONG LENGTH LOCATION LOW-PRESSURE SODIUM LOW POINT LOW RAIL LINE SECTION LIGHT OR LEFT LIGHTING LOW VOLTAGE METER MAXIMUM MOTOR CONTROL CENTER THOUSAND CIRCULAR MILS MAIN DISTRIBUTION BOARD MECHANICAL MANHOLE MILD IRON MINIMUM MISCELLANEOUS MAIN LUGS ONLY MAINLINE MAINTENANCE OF EQUIPMENT MANUALLY OPERATED SWITCH MAINTENANCE OF WAY MILES PER HOUR MOTOR MOUNTED METER, METERING MILLIVOLT MEGAVOLT AMPERE MEGAWATT NEW NORTH NOT APPLICABLE NORTHERN AREA GUIDEWAY NORTHBOUND NONBRIDGING NORMALLY CLOSED	NE NEC NEG NEMA NESC NEUT NF NFD NFPA NGD NIC NO No. OR # NOM NR NS NSR NTS O OC OD OFF OHB OL OE P P/L PB PC PEC PF PG & E PH PI PITO PL PNL POC POS PR PRI PS PSF PSI PT PVC PVM PWR QTY (R) R OR RAD R/A RC RD RE RE-BAR REC RECT REF REINF RETWALL REV RGS RMS ROW RPM REQ'D RR RRX RT RTU S SA SAB SB SC SCADA SCH SD SE SEC SECT SES SF SHT SI	NORTHEAST NATIONAL ELECTRICAL CODE NEGATIVE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL ELECTRICAL SAFETY CODE NEUTRAL NEAR FACE NON-FUSED NATIONAL FIRE PROTECTION ASSOCIATION NEGATIVE GROUNDING DEVICE NOT IN CONTRACT NORMALLY OPEN NUMBER NOMINAL NOT REGISTERED NOT SUPPORTED NOT SUPPORTED OR REGISTERED NOT TO SCALE OPEN ON CENTER OUTSIDE DIAMETER OFFSET OVERHEAD BRIDGE OVERLAP, OVERLOAD OVERLOAD ELEMENT POLE PROPERTY LINE PULLBOX OR PUSHBUTTON POINT OF CURVE PHOTOELECTRIC POWER FACTOR, POINT OF FROG PACIFIC GAS & ELECTRIC PHASE POINT OF INTERSECTION POINT OF INTERSECTION OF TURNOUT PLATE PANEL PEDESTRIAN OVER CROSSING POSITIVE, POINT OF SWITCH PAIR PRIMARY PUMP STATION POUNDS PER SQUARE FEET POUNDS PER SQUARE INCH POINT OF TANGENT, POTENTIAL TRANSFORMER POLYVINYL CHLORIDE (CONDUIT) OR POINT OF VERTICAL CURVE PARKING VALIDATION MACHINE POWER QUANTITY RELOCATE OR REMOVE AND SALVAGE RADIUS ROCK ANCHOR REINFORCED CONCRETE ROAD RUNNING EDGE OR RAIL CONCRETE REINFORCING BAR RECEPTACLE RECTIFIER REFERENCE REINFORCED RETAINING WALL REVISION RIGID GALVANIZED STEEL ROOT MEAN SQUARE RIGHT OF WAY REVOLUTIONS PER MINUTE REQUIRED RAILROAD, RUNNING RAIL RAILROAD GRADE CROSSING RIGHT REMOTE TERMINAL UNIT SOUTH SURGE ARRESTER STATION AGENT'S BOOTH SOUTHBOUND SPIRAL TO CURVE SUPERVISORY CONTROL & DATA ACQUISITION SCHEDULE SMOKE DETECTOR, SYSTEM DEPTH SUPERELEVATION SECONDARY SECTION SERVICE ENTRANCE SECTION SUPPLY FAN SHEET SECTION INSULATOR	SIG SIM SLPA SOP SP SPE SPEC SPS SPST SQ Sq Ft Sq In SS SST ST STR STA STD STL STRUCT STW SUB SW SWBD SWGR SWR SWS SYS T/F T/G T/HT T/LR TAN TBD TBR TC TCH TCR TEL TEM TEMP TERM TL TLB TOR TPB TPSS TRK TS TTB TVE TVM TW TYP U/S UE UF UG UGB UL UNINS UNO UP, UPRR UPM UPS US UTIL V VA VAR VERT VFD VLT VM VS VT W WAO W/ W/O WB WD WP WR WRI WT WW WWF XFMR XING Y&S	SIGNAL SIMILAR SIGNAGE, LIGHTING, PUBLIC ADDRESS SETOUT POINT SPARE, SUMP PUMP SINGLE-POLE SPECIFICATION SMALL PART STEELWORK SINGLE POLE SINGLE THROW SQUARE SQUARE FEET SQUARE INCHES SELECTOR SWITCH STAINLESS STEEL SHUNT TRIP STARTER STATION, STATIONING STANDARD STEEL STRUCTURE SINGLE-THROW SUBSTATION SWITCH SWITCHBOARD SWITCHGEAR SYSTEM WIDE RACEWAY SWITCHING STATION SYSTEM TOP OF FOUNDATION TOP OF FINISHED GRADE TERMINATION HEIGHT TOP OF LOW RAIL TANGENT TO BE DETERMINED TO BE REMOVED TRACK CENTER TRAIN CONTROL HOUSE TRAIN CONTROL ROOM TELEPHONE TEMPORARY TEMPERATURE TERMINAL, TERMINATION TENSION LENGTH TERMINAL BOX TOP OF RAIL TAP BOX TRACTION POWER SUBSTATION TRACK TANGENT TO SPIRAL, TEST SWITCH TELEPHONE TERMINAL BOARD TUNNEL VENTILATION EQUIPMENT TICKET VENDING MACHINE TWISTED TYPICAL UNDERSIDE UNDERGROUND ELECTRICAL UNDERFLOOR UNDERGRADE, UNDERGROUND UNDERGRADE BRIDGE UNDERWRITERS LABORATORIES INCORPORATED UNINSULATED UNLESS NOTED OTHERWISE UNION PACIFIC RAILROAD UNDERPLATFORM UNINTERRUPTIBLE POWER SUPPLY UNIT SUBSTATION UTILITY VOLT VOLT AMPS VOLT-AMPERE REACTIVE, VARIES VERTICAL VARIABLE FREQUENCY DRIVE VAULT VOLTMETER VOLTMETER SWITCH VOLTMETER TRANSDUCER, VOLTAGE TRANSFORMER WATT, WEST, WIRE WORK AREA OUTLET WITH WITHOUT WESTBOUND WIRING DIAGRAM WEATHERPROOF, WOOD POLE WIRE RUN WAYSIDE RADIO INSTALLATION WEIGHT WALKWAY WELDED WIRE FABRIC TRANSFORMER CROSSING YARD & SHOPS																																																																											
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SYMBOL		DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION			
LIGHTING			SWITCH OUTLETS		PANELBOARDS, SWITCHBOARDS AND CONTROLLERS			CONDUCTORS AND CONDUIT			
<div>CEILING</div> <div>WALL</div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	SURFACE MOUNTED FIXTURE RECESSED FIXTURE SURFACE EXIT LIGHT RECESSED EXIT LIGHT BLANKED FIXTURE OUTLET JUNCTION BOX POLE MOUNTED FIXTURE STREET LIGHT STANDARD FED FROM UNDERGROUND CIRCUIT FLUORESCENT FIXTURE (4 FT) FLUORESCENT FIXTURE (8 FT) SURFACE CONTINUOUS-ROW FLUORESCENT FIXTURE RECESSED CONTINUOUS-ROW FLUORESCENT FIXTURE FLOODLIGHT, ARROWS INDICATE DIRECTION & NUMBER OF LAMPS DENOTES - EMERGENCY BATTERY PACK WITH SEALED BEAM LIGHTS SUBSCRIPT b NEAR FIXTURE INDICATES SWITCH CIRCUIT		<div>S</div> <div>S₂</div> <div>S₃</div> <div>S_D</div> <div>S_K</div> <div>S_P</div> <div>S_L</div> <div>S_{LM}</div> <div>S_{MC}</div> <div>S_M</div> <div>S_T</div> <div>S_b</div> <div>S_{DM}</div> <div>S_s</div> <div>Ⓢ</div>	SINGLE-POLE SWITCH DOUBLE-POLE SWITCH THREE-WAY SWITCH DOOR SWITCH KEY OPERATED SWITCH SWITCH WITH PILOT LIGHT SWITCH FOR LOW VOLTAGE SWITCHING SYSTEM MASTER SWITCH FOR LOW VOLTAGE SWITCHING SYSTEM MOMENTARY CONTACT SWITCH OR PUSHBUTTON FOR OTHER THAN SIGNALING SYSTEM MANUAL MOTOR OVERLOAD SWITCH TIME SWITCH SUBSCRIPT "b" DENOTES SWITCH CIRCUIT DIMMER SWITCH SENSOR SWITCH LIGHTING SENSOR		<div>FLUSH</div> <div>SURFACE</div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div>M M47</div> <div>X X2</div> <div></div> <div></div> <div>30/3/WP</div> <div></div> <div>30/3/WP</div> <div></div> <div></div> <div>3</div> <div></div> <div>CIC</div> <div>FACP</div> <div>ETS</div>	480/277V POWER PANEL 208/120V AC DISTRIBUTION PANELBOARD 240/120V AC DISTRIBUTION PANELBOARD OR 48V DC DISTRIBUTION PANELBOARD TERMINATION CABINET CONTROLLER MOTOR STARTER WITH DISCONNECT MOTOR, WITH IDENTIFICATION TRANSFORMER, WITH IDENTIFICATION MOTOR CONTROL CENTER, 3 VERTICAL SECTIONS FUSED DISCONNECT SWITCH: SUBSCRIPT INDICATES: SWITCH RATING (AMPERES) NUMBER OR POLES WP = WEATHERPROOF (NEMA-3R) AT +60" TO TOP OF ENCLOSURE NON-FUSED DISCONNECT SWITCH: SUBSCRIPT INDICATES: SWITCH RATING (AMPERES) NF = NON-FUSED WP = WEATHERPROOF (NEMA-3R) AT +60" TO TOP OF ENCLOSURE MAGNETIC 2- OR 3- POLE MOTOR STARTER AT +60" TO TOP OF ENCLOSURE COMBINATION STARTER COMBINATION MAGNETIC MOTOR STARTER, WITH MOTOR CIRCUIT PROTECTOR. SUBSCRIPT INDICATES NEMA SIZE PACKAGE CONTROLLER/FURNISHED WITH MECHANICAL EQUIPMENT UNO TERMINAL CABINET, TYPES AS FOLLOWS: CIC - COMMUNICATIONS INTERFACE CABINET FTC - FACILITIES TERMINAL CABINET ITC - INTERFACE TERMINAL CABINET RTU - REMOTE TERMINAL UNIT TTC - TELEPHONE TERMINAL CABINET CONTROL PANEL, TYPES AS FOLLOWS: ACCP - AIR CONDITIONING CONTROL PANEL ACP - AUXILIARY CONTROL PANEL VCP - VENTILATION CONTROL PANEL RCP - REFRIGERATION CONTROL PANEL FCP - FAN CONTROL PANEL FACP - FIRE ALARM CONTROL PANEL EMERGENCY TRIP STATION		<div>— — F — —</div> <div>— — — —</div> <div>— — — —</div> <div>— — — —</div> <div>— — — —</div> <div>1"C, 3-#10</div> <div>L2-1,2,3</div> <div></div> <div>MH MH101</div> <div>HH HH101</div> <div>PB PB47</div> <div>UF</div>	CONDUIT CONCEALED IN FLOOR CONDUIT CONCEALED IN CEILING OR WALL CONDUIT EXPOSED CONDUIT CAPPED CONDUIT TURNED TOWARDS OBSERVER CONDUIT TURNED AWAY FROM OBSERVER CONDUIT AND WIRE SIZES, WHERE SIZE IS NOT SHOWN, MINIMUM SIZE AS PER SPECIFICATION BRANCH CIRCUIT HOME RUN TO PANELBOARD NUMERALS IDENTIFY CIRCUIT NUMBER L2 INDICATES TO PANEL L2 UNDERGROUND CONCRETE ENCASED DUCT BANK (TYPE, SIZE & NUMBER OF CONDUITS INDICATED BY CROSS SECTION IDENTIFICATION OF EACH RUN OR BY NOTATION) MANHOLE WITH IDENTIFICATION HANDHOLE WITH IDENTIFICATION PULL BOX WITH IDENTIFICATION UNDERFLOOR JUNCTION BOX	
RECEPTACLE OUTLETS			GROUNDING SYSTEM		CONDUIT NUMBERING						
<div>CEILING</div> <div>WALL</div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	SINGLE RECEPTACLE OUTLET DUPLEX RECEPTACLE OUTLET DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER SINGLE SPECIAL-PURPOSE RECEPTACLE OUTLET (30 AMP 2 POLE, OR AS NOTED) DUPLEX SPECIAL-PURPOSE RECEPTACLE OUTLET SPECIAL-PURPOSE CONNECTION OR PROVISION FOR CONNECTION. USE SUBSCRIPT LETTERS TO INDICATE FUNCTION (FC-FARE COLLECTION, ETC) CLOCK HANGER RECEPTACLE FAN HANGER RECEPTACLE FLOOR BOX WITH SINGLE RECEPTACLE FLOOR BOX WITH DUPLEX RECEPTACLE		<div>—GB—</div> <div>—GG—</div> <div></div> <div></div> <div></div> <div></div> <div>AT</div> <div>G</div> <div></div> <div></div> <div>LG</div> <div></div> <div></div>	GROUND BUS GROUND GRID GROUND ROD EXOTHERMICALLY WELDED GROUND WELL GROUND JUMPER METALLIC WATER PIPE GROUND LIGHTNING AIR TERMINAL GROUND CABLE - EXPOSED UNDERGROUND GROUND CABLE WITH EXOTHERMIC WELD CONNECTION GROUND PIGTAIL LIGHTNING CONDUCTOR GROUND TEST STATION		<div></div> <div>LEGEND: JB1/1 JB1/2</div> <div>LA17/5-LA175 WHERE: LA17 - UPSTREAM PANEL 5 - CONDUIT NUMBER FROM UPSTREAM PANEL LA175 - DOWNSTREAM PANEL (WHERE APPLICABLE)</div> <div>NOTE: ASSIGNMENT OF NUMBERS TO CONDUITS SHALL START FROM TOP TO BOTTOM ON THE LEFT SIDE OF THE PANEL AND INCREASE IN COUNTER-CLOCKWISE ROTATION</div>					
FIRE ALARM SYSTEM			EQUIPMENT DESIGNATION		LIGHTING, FIXTURE TYPE AND DESIGNATIONS			SPECIAL IDENTIFICATION (USED ADJACENT TO SYMBOL)			
<div>CEILING</div> <div>WALL</div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	CONTROL PANEL PULL STATION BELL HORN-STROBE OR COMBINATION ANNUNCIATOR WATER FLOW ALARM TRIP FIREHOSE CABINET TRIP DETECTOR, H-HEAT, S-SMOKE, C-COMBUSTIBLE PRODUCTS VALVE ALARM MONITOR		A - SWITCHBOARD P - POWER PANEL L - LIGHTING PANEL (480/277V) LA - AUXILIARY POWER PANEL (208/120V) X - TRANSFORMER CP - CONTROL PANEL Z - DISCONNECT SWITCH M - MOTOR MS - MOTOR STARTER MCC - MOTOR CONTROL CENTER US - UNIT SUBSTATION U - UNINTERRUPTIBLE POWER SUPPLY VFD - VARIABLE FREQUENCY DRIVE		<div>12'-0"</div> <div></div> <div>20'-0"</div> <div></div> <div>12'-0"</div> <div></div> <div>A. LETTER-NUMBER ABOVE CENTER BAR INDICATES TYPE OF FIXTURE</div> <div>B. SINGLE NUMBER BELOW THE CENTER BAR INDICATES LAMP WATTAGE</div> <div>C. IF TWO NUMBERS ARE BELOW THE CENTER BAR, THE NUMBERS TO THE LEFT INDICATES NUMBER OF LAMPS AND THE NUMBER TO THE RIGHT INDICATES LAMP WATTAGE</div> <div>D. NUMBER ABOVE SYMBOL INDICATES THE HEIGHT ABOVE FINISHED FLOOR TO BOTTOM OF FIXTURE</div>	<div>WP - WEATHER PROOF WT - WATER TIGHT VT - VAPOR TIGHT RT - RAIN TIGHT DT - DUST TIGHT EP - EXPLOSION PROOF G - GROUND R - RECESSED</div> <div>+7'-6" (FOR EXAMPLE) MOUNTING HEIGHT TO � OF OUTLET ABOVE FINISH FLOOR</div>					
DESIGNED BY G. LALWANI DRAWN BY G. MARAVILLA CHECKED BY L. CHEN IN CHARGE R. BARLAAN DATE 20130710			1436 California Circle Milpitas, California 95035 A Joint Venture Anil Verma Associates, Inc. 1970 Broadway, Suite 525 Oakland, CA 94612 Phone: (510) 455-2537 Fax: (510) 535-2339 Lockwood, Andrews & Newnam, Inc. A LEO A. BARRY COMPANY T-Y-LIN INTERNATIONAL		BART SILICON VALLEY BERRYESSA EXTENSION			LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MONTAGUE LRT AND MILPITAS POC ELECTRICAL LAYOUT SYMBOLS			
REV DATE BY SUB APP DESCRIPTION			SUBMITTED APPROVED		CADD FILENAME C700-S-DB-E002X.dwg SIZE SCALE D NONE CONTRACT NO. C700 REV. 0 AREA CODE DB SHEET NO. E002X PAGE NO. 0830						

SYMBOL		DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
 	TRANSFORMER, WITH IDENTIFICATION RATING, PHASE, AND VOLTAGE INDICATED 750 KVA, 3Ø, 4W 277/480V OR 120/208V 3Ø, 3 WIRE DELTA TRANSFORMER CONNECTION 3Ø WYE, GROUNDED NEUTRAL TRANSFORMER CONNECTION CABLE POTHEAD GROUND CONNECTION BUS DISCONNECTING DEVICE CIRCUIT BREAKER, 34.5KV, 3P, DRAWOUT WITH IDENTIFICATION No. SINGLE UNIT DRAW-OUT CIRCUIT BREAKER WITH CURRENT LIMITERS DRAW-OUT CIRCUIT BREAKER AND CURRENT LIMITER MOUNTED IN SEPARATE COMPARTMENT WITH MECHANICAL AND ELECTRICAL INTERLOCK CIRCUIT BREAKER, DRAW-OUT TYPE, CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE ABOVE LINE MOLDED CASE CIRCUIT BREAKER, CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE ABOVE LINE CIRCUIT BREAKER, MAGNETIC OVERLOAD TYPE, CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE ABOVE LINE COMBINATION REVERSING MOTOR STARTER WITH DRAWOUT ISOLATING SWITCH, CURRENT LIMITING FUSE AND VACUUM CONTACTOR COMBINATION MOTOR STARTER CIRCUIT BREAKER AND STARTER SIZE AS INDICATED SWITCH, NON FUSED, 30A RATING SWITCH, FUSED, 30A RATING TRANSFORMER, 3 WINDING INTERPHASE TRANSFORMER		 	NETWORK PROTECTOR REACTOR POTENTIAL TRANSFORMER WITH NUMBER AND RATIO AS INDICATED CURRENT TRANSFORMER WITH NUMBER AND RATIO AS INDICATED CURRENT TRANSFORMER WITH POLARITY MARKINGS POTENTIAL TRANSFORMER WITH POLARITY MARKINGS AMMETER VOLTMETER KILOWATT METER KILOWATTHOUR METER POWER FACTOR METER A-C INSTANTANEOUS OVERCURRENT AND TIME OVERCURRENT RELAYS A-C NEUTRAL TIME OVERCURRENT RELAYS UNDERVOLTAGE RELAY INTERLOCK KEY INTERLOCK VOLTMETER SWITCH AMMETER SWITCH CONTROL SWITCH NORMALLY OPEN CONTACT, AUXILIARY OR RELAY NORMALLY CLOSED CONTACT, AUXILIARY OR RELAY NORMALLY OPEN CONTACT, SIGNAL FROM CENTRAL NORMALLY CLOSED CONTACT, SIGNAL FROM CENTRAL NORMALLY-OPEN CONTACT, TIME DELAY ON PICK-UP (ENERGIZED) NORMALLY-CLOSED CONTACT, TIME DELAY ON PICK-UP (ENERGIZED) NORMALLY-OPEN CONTACT, TIME DELAY ON DROP-OUT (DE-ENERGIZED) NORMALLY-CLOSED CONTACT, TIME DELAY ON DROP-OUT (DE-ENERGIZED) DIODE OR RECTIFIER HALF-BRIDGE ZENER DIODE CAPACITOR		<div><div>Santa Clara Valley Transportation Authority</div><div>NO EXCEPTIONS TAKEN (NET) MAKE CORRECTIONS NOTED (MCN) AMEND AND RESUBMIT (A/R)</div><div>Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.</div><div>Contract No.: DB11002F</div><div>By: _____ Date: _____</div></div> 		RECTIFIER BRIDGE OVERLOAD RELAY CONTACTS COIL, OPERATING PILOT LIGHT INDICATING LIGHT FUSE, SIZE AS NOTED PRIMARY OIL FUSE CUTOUT SINGLE POLE CIRCUIT BREAKER, SIZE AS INDICATED PUSHBUTTON SWITCH, MOMENTARY CONTACT, NC LO INDICATES LOCK-OUT PUSHBUTTON SWITCH, MOMENTARY CONTACT, NO SELECTOR SWITCH, HAND-OFF-AUTOMATIC, OR AS NOTED K=KEY OPERATED (STANDARD OR HEAVY DUTY INDUSTRIAL CONTROL) SELECTOR SWITCH (WAFER TYPE) SINGLE POLE SINGLE THROW SWITCH SINGLE POLE DOUBLE THROW SWITCH SOLENOID VALVE LIMIT SWITCH, NORMALLY OPEN LIMIT SWITCH, NORMALLY CLOSED LIMIT SWITCH, NO, HELD CLOSED BY ACTUATOR LIMIT SWITCH, NC, HELD OPEN BY ACTUATOR PRESSURE SWITCH, NORMALLY OPEN, CLOSSES ON RISING PRESSURE PRESSURE SWITCH, NORMALLY CLOSED, OPENS ON RISING PRESSURE FLOW SWITCH, NORMALLY OPEN, CLOSSES WITH FLOW FLOW SWITCH, NORMALLY CLOSED, OPENS WITH FLOW TEMPERATURE SWITCH, CLOSSES ON RISING TEMPERATURE (COOLING THERMOSTAT) TEMPERATURE SWITCH, OPENS ON RISING TEMPERATURE (HEATING THERMOSTAT) LEVEL CONTROLLER (SWITCH), NORMALLY OPEN AT LOW POSITION, CLOSSES ON RISE LEVEL CONTROLLER (SWITCH), NORMALLY CLOSED AT LOW POSITION, OPENS ON RISE REMOVABLE LINK DISCONNECTING SWITCH LOAD INTERRUPTER SWITCH CABLE STRESS CONE
	OUTLINE OF EQUIPMENT FUNCTIONAL CONNECTION, CLOSE, TRIP OR INTERLOCK CONDUCTORS CONNECTED CONDUCTORS, NOT CONNECTED MULTICONDUCTOR CABLE SHIELDED 2 CONDUCTOR CABLE WITH SHIELD GROUNDED COAXIAL CABLE TERMINAL STRIP, WITH 3 WIRES TERMINATED WIRING TERMINAL BATTERY MOTOR, INSIDE NUMBER INDICATES HP IDENTIFICATION NUMBER MP101 BUS WAY GROUND GROUND CONNECTION TO EQUIPMENT ENCLOSURE FLOOR OPENING WITH GROUNDING CONDUCTOR FUTURE OR NIC MECHANICAL CONNECTION HALL EFFECT CURRENT SENSOR FIXED RESISTOR ADJUSTABLE RESISTOR SPlice WITH NO SHEATH ISOLATION SPlice WITH SHEATH ISOLATION TIMED CONTACT, NO, TIME CLOSING ON ENERGIZING (OPENS INSTANTLY ON DE-ENERGIZING) TC TIMED CONTACT, NC, OPENS INSTANTLY ON ENERGIZING (TIME CLOSING ON DE-ENERGIZING) TC TIMED CONTACT, NO, CLOSSES INSTANTLY ON ENERGIZING (TIME OPENING ON DE-ENERGIZING) TO TIMED CONTACT, NC, TIME OPENING ON ENERGIZING (CLOSSES INSTANTLY ON DE-ENERGIZING) TO LIGHTNING OR SURGE PROTECTION GENERATOR LOCKOUT RELAY, HAND RESET							

DESIGNED BY G. LALWANI			1436 California Circle Milpitas, California 95035 A Joint Venture		
DRAWN BY G. MARAVILLA				T-Y-LIN INTERNATIONAL	
CHECKED BY L. CHEN					
IN CHARGE R. BARLAAN					
DATE 20130710		SUBMITTED		APPROVED	

BART SILICON VALLEY BERRYESSA EXTENSION		LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION		ELECTRICAL DIAGRAM SYMBOLS	
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CADD FILENAME C700-S-DB-E003.dwg	
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AREA CODE	SHEET NO.
DB	E003
PAGE NO. 0831	

Jun 21, 2013 4:38pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E003X.dwg
GilesM

SYMBOL		DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	X01	TRANSFORMER, WITH IDENTIFICATION RATING, PHASE, AND VOLTAGE INDICATED		NETWORK PROTECTOR		RECTIFIER BRIDGE		OUTLINE OF EQUIPMENT
		3Ø, 3 WIRE DELTA TRANSFORMER CONNECTION		REACTOR		OVERLOAD RELAY CONTACTS		FUNCTIONAL CONNECTION, CLOSE, TRIP OR INTERLOCK
		3Ø WYE, GROUNDED NEUTRAL TRANSFORMER CONNECTION		POTENTIAL TRANSFORMER WITH NUMBER AND RATIO AS INDICATED		COIL, OPERATING		CONDUCTORS CONNECTED
		CABLE POTHEAD		CURRENT TRANSFORMER WITH NUMBER AND RATIO AS INDICATED		PILOT LIGHT		CONDUCTORS, NOT CONNECTED
		GROUND CONNECTION		CURRENT TRANSFORMER WITH POLARITY MARKINGS		INDICATING LIGHT		
		BUS		POTENTIAL TRANSFORMER WITH POLARITY MARKINGS				MULTICONDUCTOR CABLE
		DISCONNECTING DEVICE		AMMETER				SHIELDED 2 CONDUCTOR CABLE WITH SHIELD GROUNDED
	252-21	CIRCUIT BREAKER, 34.5KV, 3P, DRAWOUT WITH IDENTIFICATION No.		VOLTMETER				COAXIAL CABLE
		SINGLE UNIT DRAW-OUT CIRCUIT BREAKER WITH CURRENT LIMITERS		KILOWATT METER				TERMINAL STRIP, WITH 3 WIRES TERMINATED
		DRAW-OUT CIRCUIT BREAKER AND CURRENT LIMITER MOUNTED IN SEPARATE COMPARTMENT WITH MECHANICAL AND ELECTRICAL INTERLOCK		KILOWATTHOUR METER				WIRING TERMINAL
	1000/900 101	CIRCUIT BREAKER, DRAW-OUT TYPE, CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE ABOVE LINE		POWER FACTOR METER				BATTERY
	100/70 101	MOLDED CASE CIRCUIT BREAKER, CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE ABOVE LINE		A-C INSTANTANEOUS OVERCURRENT AND TIME OVERCURRENT RELAYS				MOTOR, INSIDE NUMBER INDICATES HP IDENTIFICATION NUMBER
	100/70 101	CIRCUIT BREAKER, MAGNETIC OVERLOAD TYPE, CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE ABOVE LINE		A-C NEUTRAL TIME OVERCURRENT RELAYS				BUS WAY
		COMBINATION REVERSING MOTOR STARTER WITH DRAWOUT ISOLATING SWITCH, CURRENT LIMITING FUSE AND VACUUM CONTACTOR		UNDERVOLTAGE RELAY				GROUND
	100 4	COMBINATION MOTOR STARTER CIRCUIT BREAKER AND STARTER SIZE AS INDICATED		INTERLOCK				GROUND CONNECTION TO EQUIPMENT ENCLOSURE
	30A	SWITCH, NON FUSED, 30A RATING		KEY INTERLOCK				FLOOR OPENING WITH GROUNDING CONDUCTOR
	30A	SWITCH, FUSED, 30A RATING		VOLTMETER SWITCH				FUTURE OR NIC
		TRANSFORMER, 3 WINDING		AMMETER SWITCH				MECHANICAL CONNECTION
		INTERPHASE TRANSFORMER		CONTROL SWITCH				HALL EFFECT CURRENT SENSOR
				NORMALLY OPEN CONTACT, AUXILIARY OR RELAY				FIXED RESISTOR
				NORMALLY CLOSED CONTACT, AUXILIARY OR RELAY				ADJUSTABLE RESISTOR
				NORMALLY OPEN CONTACT, SIGNAL FROM CENTRAL				SPLICE WITH NO SHEATH ISOLATION
				NORMALLY CLOSED CONTACT, SIGNAL FROM CENTRAL				SPLICE WITH SHEATH ISOLATION
				NORMALLY-OPEN CONTACT, TIME DELAY ON PICK-UP (ENERGIZED)				TIMED CONTACT, NO, TIME CLOSING ON ENERGIZING (OPENS INSTANTLY ON DE-ENERGIZING)
				NORMALLY-CLOSED CONTACT, TIME DELAY ON PICK-UP (ENERGIZED)				TIMED CONTACT, NC, OPENS INSTANTLY ON ENERGIZING (TIME CLOSING ON DE-ENERGIZING)
				NORMALLY-OPEN CONTACT, TIME DELAY ON DROP-OUT (DE-ENERGIZED)				TIMED CONTACT, NO, CLOSSES INSTANTLY ON ENERGIZING (TIME OPENING ON DE-ENERGIZING)
				NORMALLY-CLOSED CONTACT, TIME DELAY ON DROP-OUT (DE-ENERGIZED)				TIMED CONTACT, NC, TIME OPENING ON ENERGIZING (CLOSSES INSTANTLY ON DE-ENERGIZING)
				DIODE OR RECTIFIER HALF-BRIDGE				LIGHTNING OR SURGE PROTECTION
				ZENER DIODE				GENERATOR
				CAPACITOR				LOCKOUT RELAY, HAND RESET

0

20130710

READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710

PROFESSIONAL
ENGINEER
E11904
EXP.
12/31/14
ELECTRICAL
STATE OF CALIFORNIA

Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 435-2537 Fax: (510) 535-2539
Lockwood, Andrew & Newnam, Inc.
A LEO A. DARY COMPANY
T-Y-LIN INTERNATIONAL

BART

SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

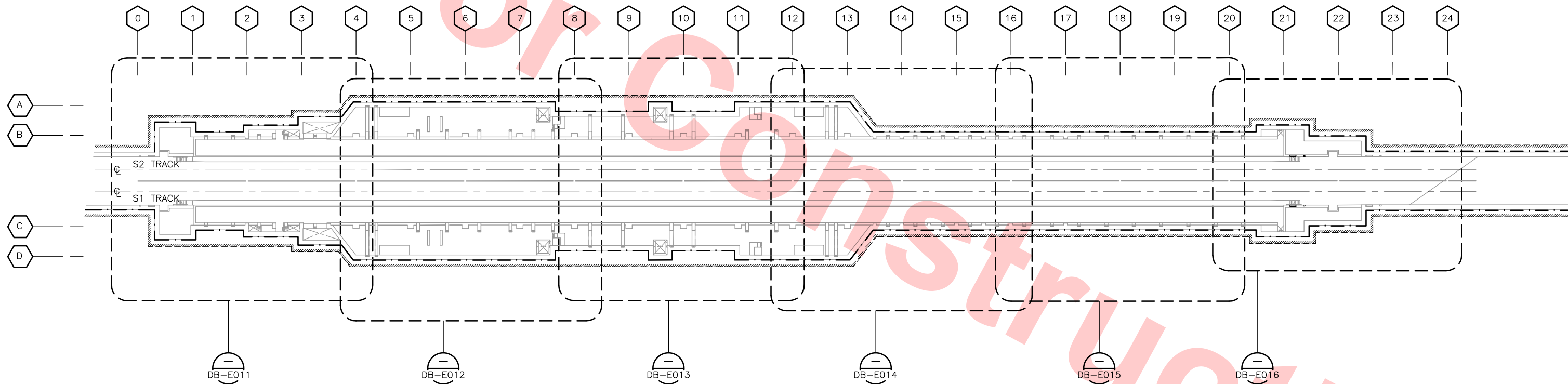
LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MONTAGUE LRT AND MILPITAS POC
ELECTRICAL
DIAGRAM SYMBOLS

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C700-S-DB-E003X.dwg
SIZE SCALE
D NONE
CONTRACT NO.
C700
SHEET NO.
E003X
PAGE NO.
0832

REV. 0

- Santa Clara Valley Transportation Authority**
- ____ NO EXCEPTIONS TAKEN (NET)**
____ MAKE CORRECTIONS NOTED (MCN)
____ AMEND AND RESUBMIT (A/R)
- Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.**
- Contract No.: _____ DB11002F _____**
- By: _____ Date: _____**

Jun 21, 2013 - 4:38pm G:\Giles Maravilla\Militas Station\Projectwise Sheets\C700-S-DB-E004X.dwg



KEY PLAN — TRACK LEVEL — LIGHTING
SCALE: 1/32"=1'-0"

Santa Clara Valley Transportation Authority

☐ NO EXCEPTIONS TAKEN (NET)
☐ MAKE CORRECTIONS NOTED (MCN)
☐ AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

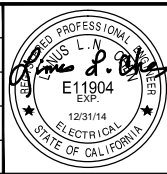
By: _____ Date: _____



Jun 20, 2013 2:12pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E010X.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

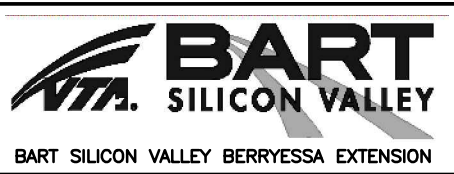
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Lockwood, Andrews & Newnam, Inc.
A LEI A BALLY COMPANY

T-Y-LIN INTERNATIONAL

SUBMITTED *[Signature]*

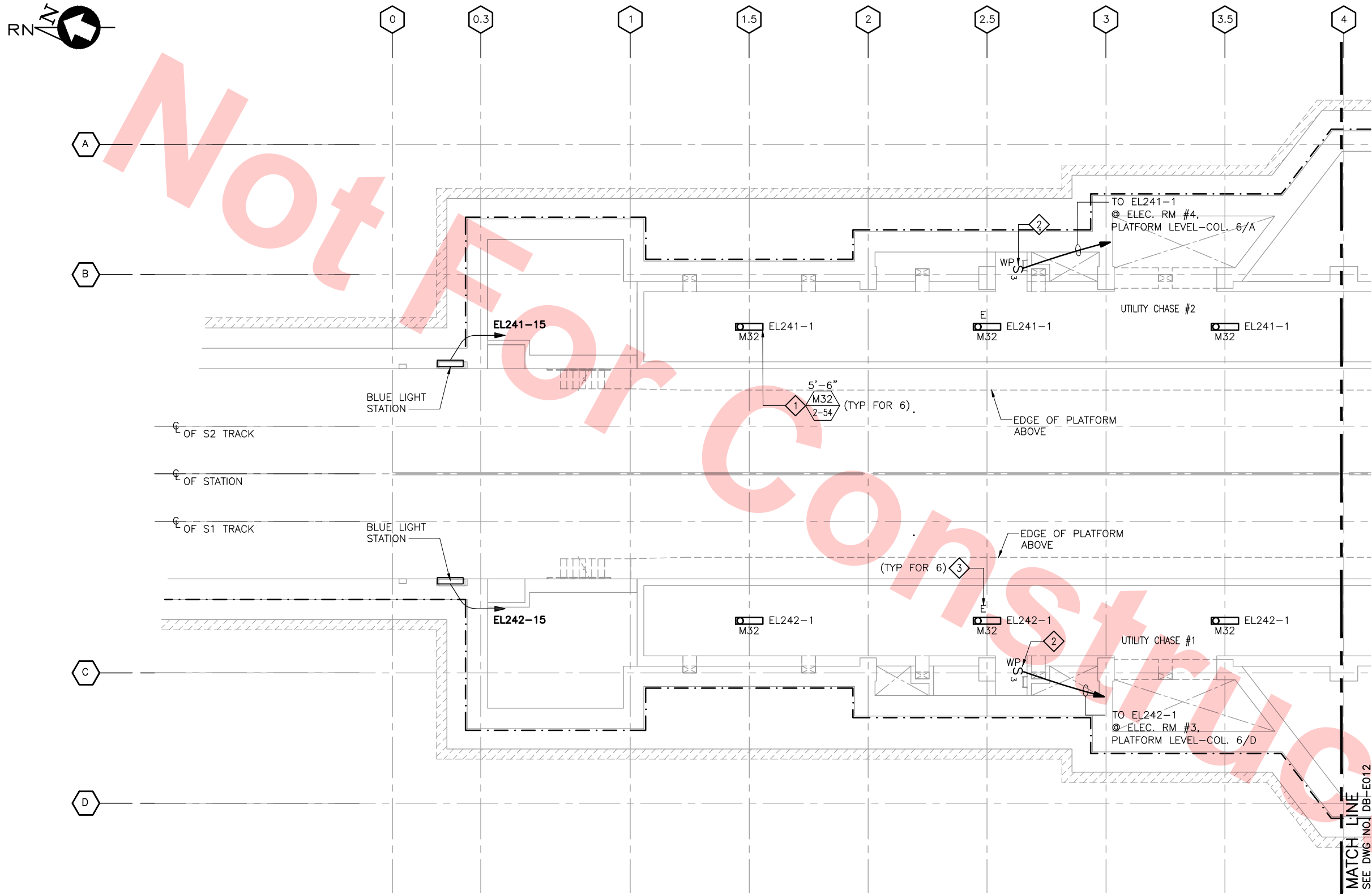
APPROVED *[Signature]*



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
KEY PLAN
TRACK LEVEL
LIGHTING

CADD FILENAME	C700-S-DB-E010X.dwg
SIZE	SCALE
D	1/32"=1'-0"
CONTRACT NO.	C700
AREA CODE	DB
SHEET NO.	E010X
PAGE NO.	0834
REV.	0

Jun 21, 2013 4:39pm C:\Giles\Maravilla\Milpitas Station\Project\Drawings\Sheets\C700-S-DB-E011.dwg



TRACK LEVEL PLAN — LIGHTING
SCALE: 1/8"=1'-0"
DB-E010X

KEY NOTES

- SEE DRAWING DB-E515 AND DB-E516 FOR LIGHTING FIXTURE SCHEDULE.
- SINGLE POLE 3-WAY SWITCH MOUNTED 48" AFF, AND 6" MIN FROM ACCESS LADDER FOR CONTROL OF LIGHTS ALONG CHASE THAT ARE CONNECTED TO NORMAL CIRCUITS.
- SUBSCRIPT "E" WITH THE LIGHT FIXTURE SYMBOL, DENOTES LIGHTS CONNECTED TO EMERGENCY CIRCUIT.

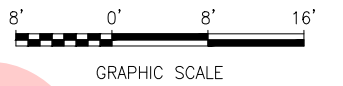
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

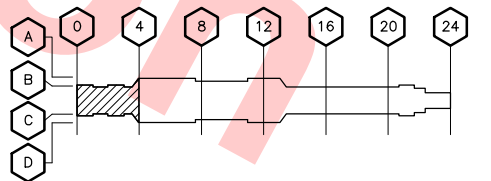
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: Date:

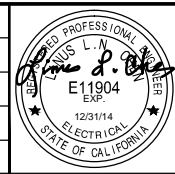


KEY PLAN



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACES C700-DB-E191

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



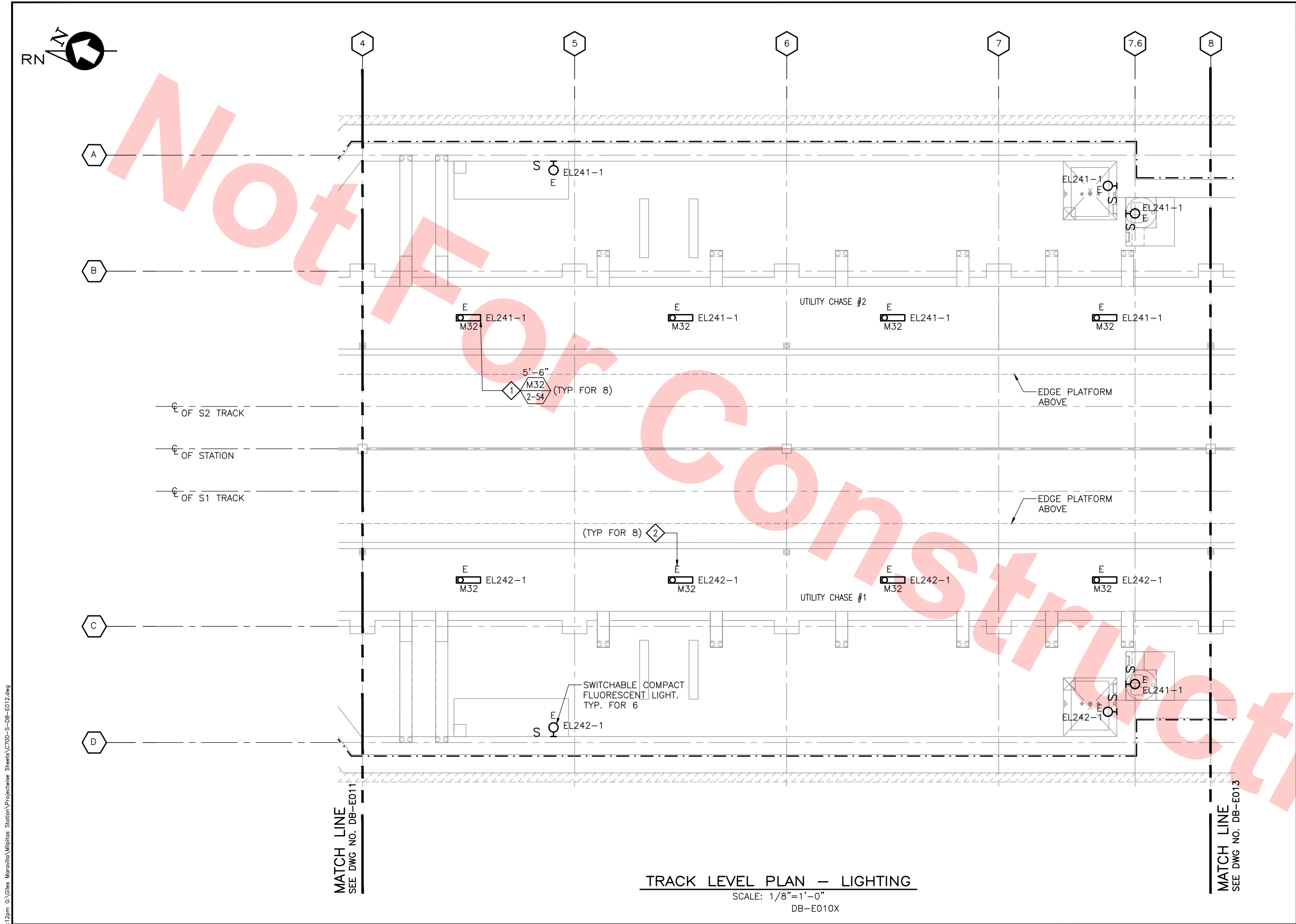
Submitted
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2339

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture
Approved
T-Y-LIN INTERNATIONAL
A LEOP A BALLY COMPANY



LINE, TRACK STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRACK LEVEL PLAN
LIGHTING
SHEET 1 OF 6

CADD FILENAME C700-S-DB-E011.dwg	REV. 0
SIZE SCALE D 1/8"=1'-0"	PAGE NO. 0835
CONTRACT NO. C700	SHEET NO. E011
AREA CODE DB	



KEY NOTES

- 1 SEE DRAWING DB-E515 AND DB-E516 FOR LIGHTING FIXTURE SCHEDULE.
- 2 SUBSCRIPT "E" WITH THE LIGHT FIXTURE SYMBOL, DENOTES LIGHTS CONNECTED TO EMERGENCY CIRCUIT.

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

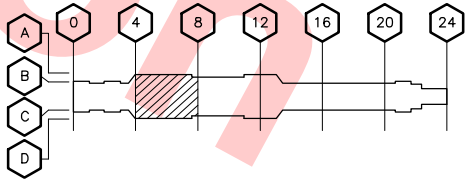
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



TRACK LEVEL PLAN - LIGHTING
SCALE: 1/8"=1'-0"
DB-E010X

Jun 20, 2013 2:12pm C:\Giles\Maravilla\Milpitas Station\Project\Drawings\Sheets\C700-S-DB-E012.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E192

DESIGNED BY
G. LALWANI
DRAWN BY
C. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



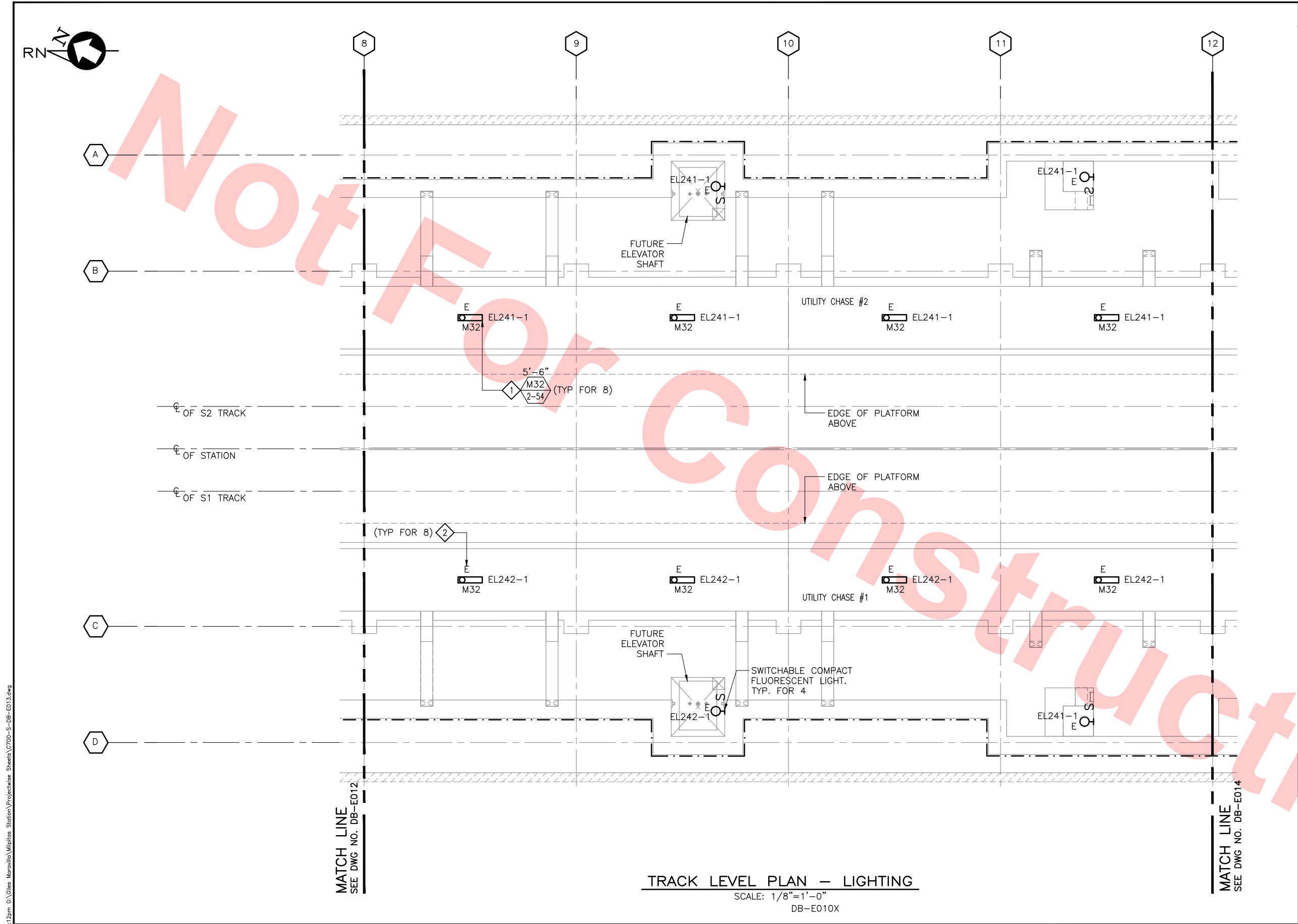
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2339
SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lookwood, Andrews
& Newman, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRACK LEVEL PLAN
LIGHTING
SHEET 2 OF 6

CADD FILENAME C700-S-DB-E012.dwg	REV. 0
SIZE SCALE D 1/8"=1'-0"	PAGE NO. 0836
CONTRACT NO. C700	
AREA CODE DB	SHEET NO. E012



KEY NOTES

- 1 SEE DRAWING DB-E515 AND DB-E516 FOR LIGHTING FIXTURE SCHEDULE.
- 2 SUBSCRIPT "E" WITH THE LIGHT FIXTURE SYMBOL, DENOTES LIGHTS CONNECTED TO EMERGENCY CIRCUIT.

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

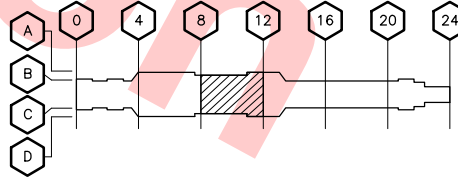
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



TRACK LEVEL PLAN - LIGHTING

SCALE: 1/8"=1'-0"
DB-E010X

Jun 20, 2013 2:12pm C:\Giles Maravilla\Milpitas Station\Project\Drawings\Sheet\C700-S-DB-E013.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-193

DESIGNED BY
G. LALWANI
DRAWN BY
C. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



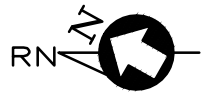
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2339
SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lookwood, Andrews
& Newman, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRACK LEVEL PLAN
LIGHTING
SHEET 3 OF 6

CADD FILENAME C700-S-DB-E013.dwg	REV. 0
SIZE SCALE D 1/8"=1'-0"	CONTRACT NO. C700
AREA CODE DB	SHEET NO. E013
PAGE NO. 0837	



KEY NOTES

- 1
- SEE DRAWING DB-E515 AND DB-E516 FOR LIGHTING FIXTURE SCHEDULE.
- 2
- SUBSCRIPT "E" WITH THE LIGHT FIXTURE SYMBOL, DENOTES LIGHTS CONNECTED TO EMERGENCY CIRCUIT.

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

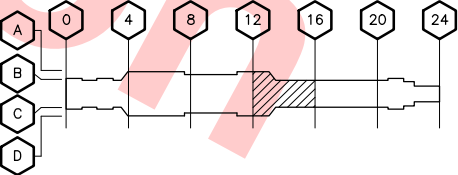
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



TRACK LEVEL PLAN — LIGHTING

SCALE: 1/8"=1'-0"
DB-E010X

MATCH LINE
SEE DWG NO. DB-E013

MATCH LINE
SEE DWG NO. DB-E015

Jun 20, 2013 2:12pm C:\GIS\Maravilla\Milpitas Station\Project\Drawings\Sheets\C700-S-DB-E014.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E194

DESIGNED BY
G. LALWANI
DRAWN BY
C. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Submitted by
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture



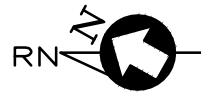
APPROVED
By: [Signature]



BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRACK LEVEL PLAN
LIGHTING
SHEET 4 OF 6

CADD FILENAME C700-S-DB-E014.dwg	REV. 0
SIZE D	SCALE 1/8"=1'-0"
CONTRACT NO. C700	SHEET NO. E014
AREA CODE DB	PAGE NO. 0838



20

21

22

23

24

B

C

UTILITY CHASE #2

EL241-1
M32

5'-6"
M32
(TYP FOR 2)

EDGE OF PLATFORM
ABOVE

EL241-17

BLUE LIGHT
STATION

OF S2 TRACK

OF STATION

OF S1 TRACK

EDGE OF PLATFORM
ABOVE

BLUE LIGHT
STATION

(TYP FOR 2)

EL242-1
M32

UTILITY CHASE #1

WP

EL242-17

MATCH LINE
SEE DWG NO. DB-E015

TRACK LEVEL PLAN — LIGHTING

SCALE: 1/8"=1'-0"
DB-E010X

KEY NOTES

- 1 SEE DRAWING DB-E515 AND DB-E516 FOR LIGHTING FIXTURE SCHEDULE.
- 2 SINGLE POLE 3-WAY SWITCH MOUNTED 48" AFF, AND 6" MIN FROM ACCESS LADDER FOR CONTROL OF LIGHTS ALONG CHASE THAT ARE CONNECTED TO NORMAL CIRCUITS.
- 3 SUBSCRIPT "E" WITH THE LIGHT FIXTURE SYMBOL, DENOTES LIGHTS CONNECTED TO EMERGENCY CIRCUIT.

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

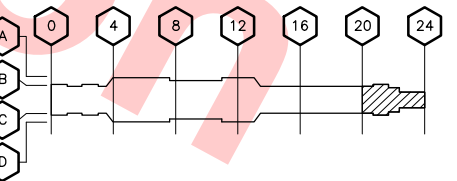
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

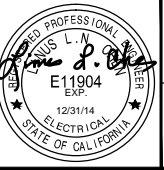
KEY PLAN



Jun 21, 2013 4:39pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E015.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130430				READINESS FOR CONSTRUCTION REPLACED C700-DB-E196

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130430



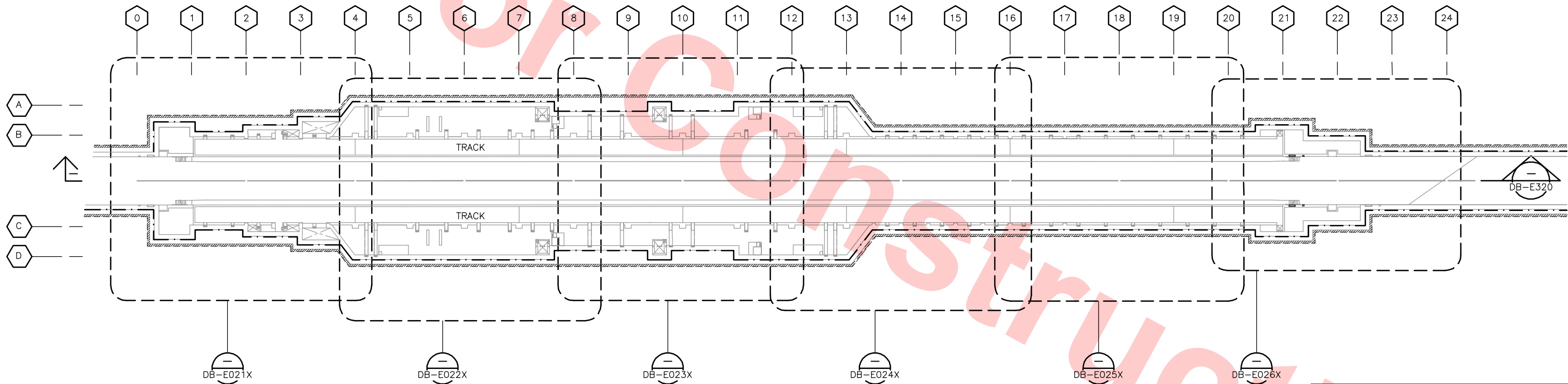
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2339
SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRACK LEVEL PLAN
LIGHTING
SHEET 6 OF 6

CADD FILENAME C700-S-DB-E016.dwg	REV. 0
SIZE SCALE D 1/8"=1'-0"	
CONTRACT NO. C700	
AREA CODE DB	SHEET NO. E016
	PAGE NO. 0840



KEY PLAN – TRACK LEVEL – POWER AND MISCELLANEOUS
SCALE: 1/32"=1'-0"

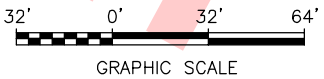
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____



Jun 21, 2013 - 2:47pm C:\GIS\Maravilla\Milpitas Station\Project\Drawings\Sheet\CT00-S-DB-E020.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.

1970 Broadway, Suite 420
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2539

Lookwood, Andrews & Nowman, Inc.

A LEO A DALY COMPANY

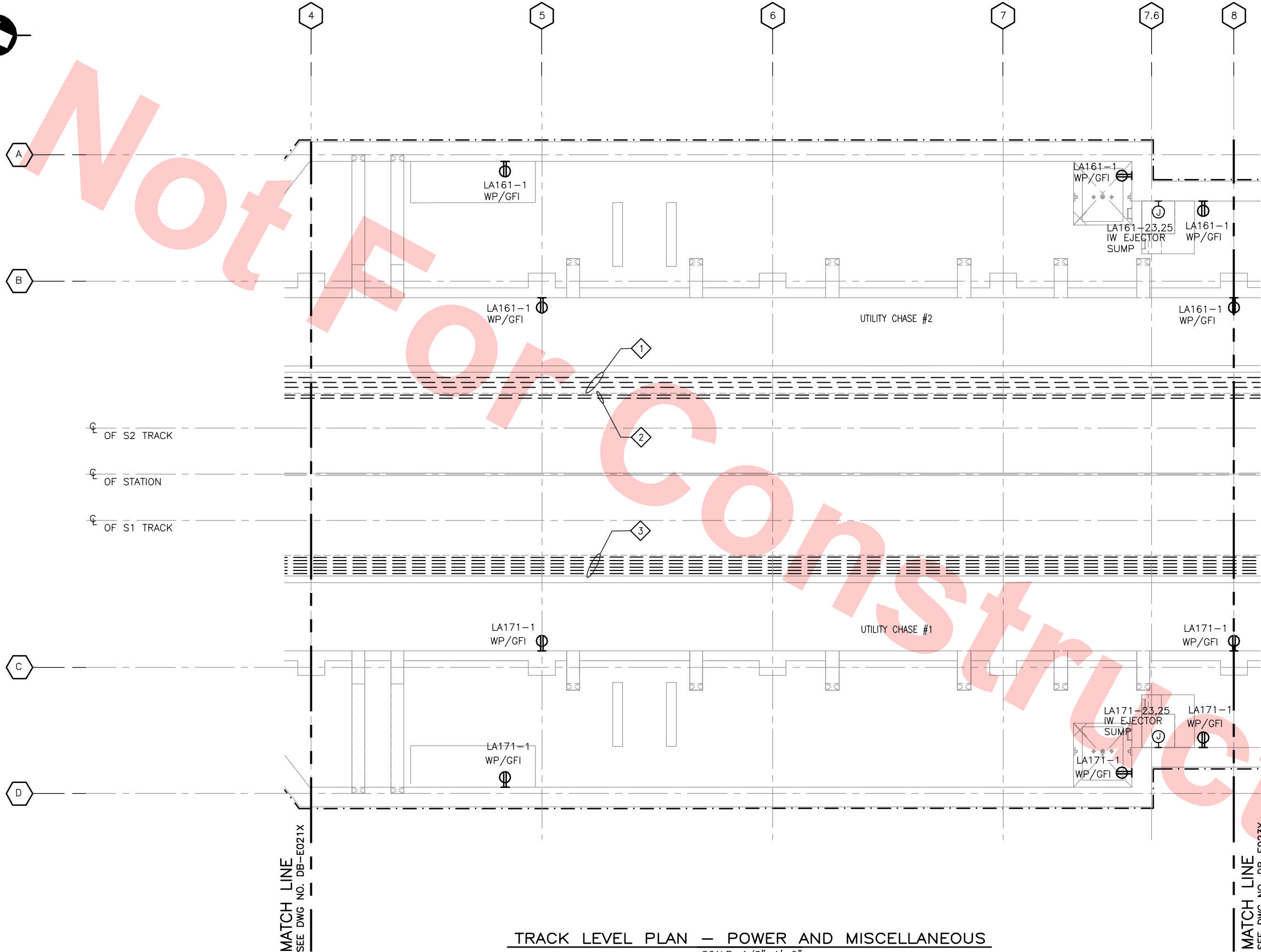
T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
KEY PLAN
TRACK LEVEL
POWER AND MISCELLANEOUS

CADD FILENAME C700-S-DB-E020.dwg	REV. 0
SIZE D	SCALE 1/32"=1'-0"
CONTRACT NO. C700	SHEET NO. E020
AREA CODE DB	PAGE NO. 0841

Jun 24, 2013 - 4:54pm C:\GIS\Maravilla\Milpitas Station\Project\Sheet\CT700-S-DB-E022X.dwg



TRACK LEVEL PLAN — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-E020

KEY NOTES

- 1 SYSTEM WIDE 34.5KV 3-6"C 34.5 KV (TPSS) IN STRUCTURAL INVERT.
- 2 2-4"C FIBER OPTIC IN STRUCTURAL INVERT
- 3 28-4"C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT.

NOTES

1. ALL CONDUIT RUNS AS PER SYSTEM POWER/CONTROLS/COMMUNICATION SHOWN HERE ARE FOR REFERENCE ONLY, FOR DETAILS, CONSULT WITH SYSTEMS ELECTRICAL ENGINEERS.
2. FOR ELCTRICAL ABBREVIATIONS SEE DWG. DB-E001.
3. FOR ELCTRICAL LAYOUT SYMBOLS SEE DWG. DB-E002.

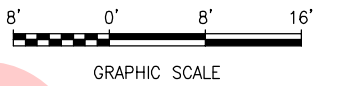
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

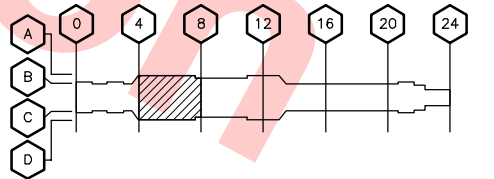
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: Date:



KEY PLAN



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E292, REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture
Anil Verma Associates, Inc.
1970 Broadway, Suite 420
Oakland, CA 94612
Phone: (510) 855-2537 Fax: (510) 535-2339

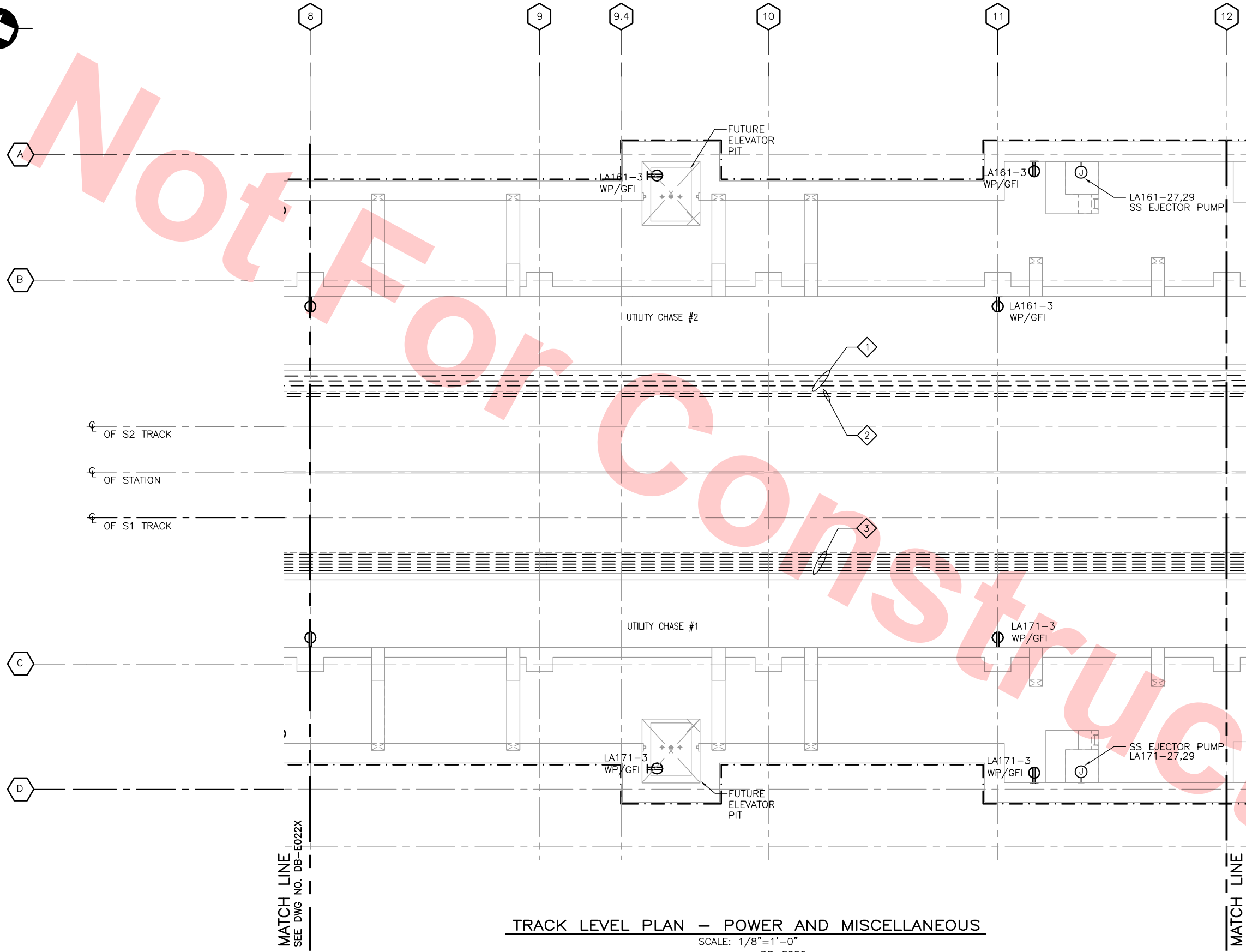
Lookwood, Andrews & Nowman, Inc.
A LEO A DALY COMPANY
T-Y-LIN INTERNATIONAL
APPROVED *[Signature]*



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRACK LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 2 OF 6

CADD FILENAME C700-S-DB-E022X.dwg	REV. 0
SIZE D	SCALE 1/8"=1'-0"
CONTRACT NO. C700	SHEET NO. E022X
AREA CODE DB	PAGE NO. 0843

Jun 24, 2013 - 2:35pm C:\GIS\Maravilla\Milpitas Station\Project\Sheet\Sheet\CT700-S-DB-E023X.dwg



MATCH LINE
SEE DWG NO. DB-E022X

MATCH LINE
SEE DWG NO. DB-E024X

TRACK LEVEL PLAN — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-E020

KEY NOTES

- 1 SYSTEM WIDE 34.5KV 3-6"C 34.5 KV (TPSS) IN STRUCTURAL INVERT.
- 2 2-4"C FIBER OPTIC IN STRUCTURAL INVERT
- 3 28-4"C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT.

NOTES

1. ALL CONDUIT RUNS AS PER SYSTEM POWER/CONTROLS/COMMUNICATION SHOWN HERE ARE FOR REFERENCE ONLY, FOR DETAILS, CONSULT WITH SYSTEMS ELECTRICAL ENGINEERS.
2. FOR ELCTRICAL ABBREVIATIONS SEE DWG. DB-E001.
3. FOR ELCTRICAL LAYOUT SYMBOLS SEE DWG. DB-E002.

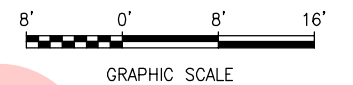
Santa Clara Valley Transportation Authority

— NO EXCEPTIONS TAKEN (NET)
— MAKE CORRECTIONS NOTED (MCN)
— AMEND AND RESUBMIT (A/R)

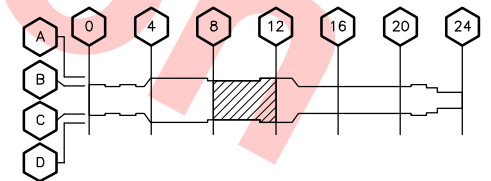
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

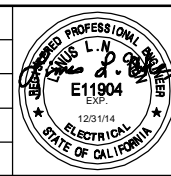


KEY PLAN



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E293, REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska Shimmick Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 420, Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

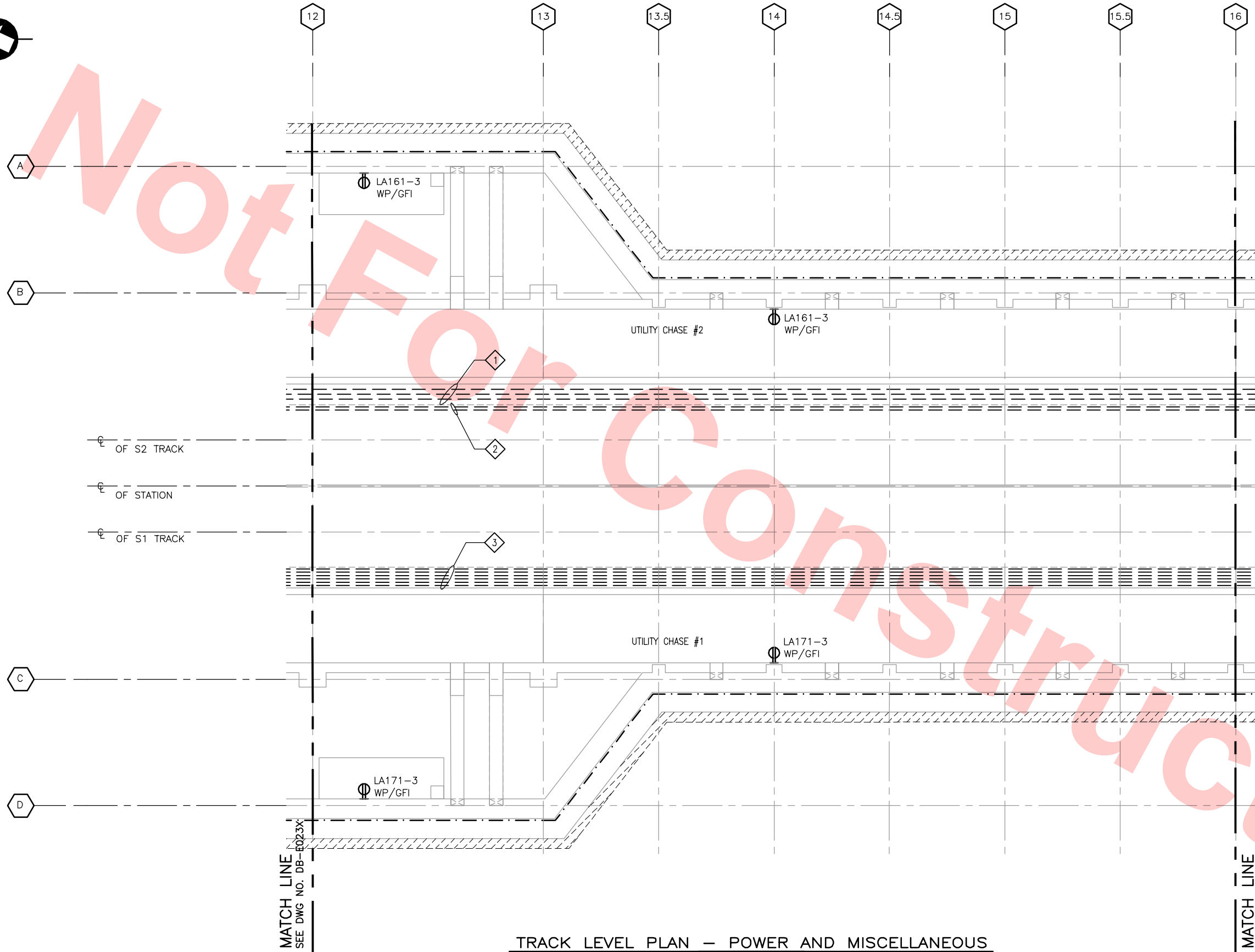
1436 California Circle
Milpitas, California 95035
A Joint Venture
Lookwood, Andrews & Nowman, Inc.
T-Y-LIN INTERNATIONAL
APPROVED *[Signature]*



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRACK LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 3 OF 6

CADD FILENAME C700-S-DB-E023X.dwg	REV. 0
SIZE D	SCALE 1/8"=1'-0"
CONTRACT NO. C700	SHEET NO. E023X
AREA CODE DB	PAGE NO. 0844

Jun 24, 2013 - 2:37pm C:\GIS\Maravilla\Milpitas Station\Project\Sheet\Sheet\CT700-S-DB-E024X.dwg



TRACK LEVEL PLAN — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-E020

KEY NOTES

- 1 SYSTEM WIDE 34.5KV 3-6"C 34.5 KV (TPSS) IN STRUCTURAL INVERT.
- 2 2-4"C FIBER OPTIC IN STRUCTURAL INVERT
- 3 28-4"C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT.

NOTES

- 1. ALL CONDUIT RUNS AS PER SYSTEM POWER/CONTROLS/COMMUNICATION SHOWN HERE ARE FOR REFERENCE ONLY, FOR DETAILS, CONSULT WITH SYSTEMS ELECTRICAL ENGINEERS.
- 2. FOR ELCTRICAL ABBREVIATIONS SEE DWG. DB-E001.
- 3. FOR ELCTRICAL LAYOUT SYMBOLS SEE DWG. DB-E002.

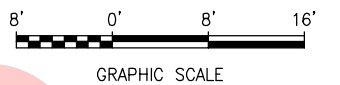
Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

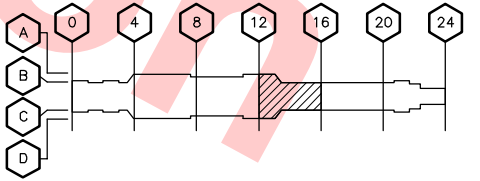
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: Date:



KEY PLAN



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E294, REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 420
Milpitas, California 95035
Phone: (415) 855-2537 Fax: (415) 855-2539
SUBMITTED

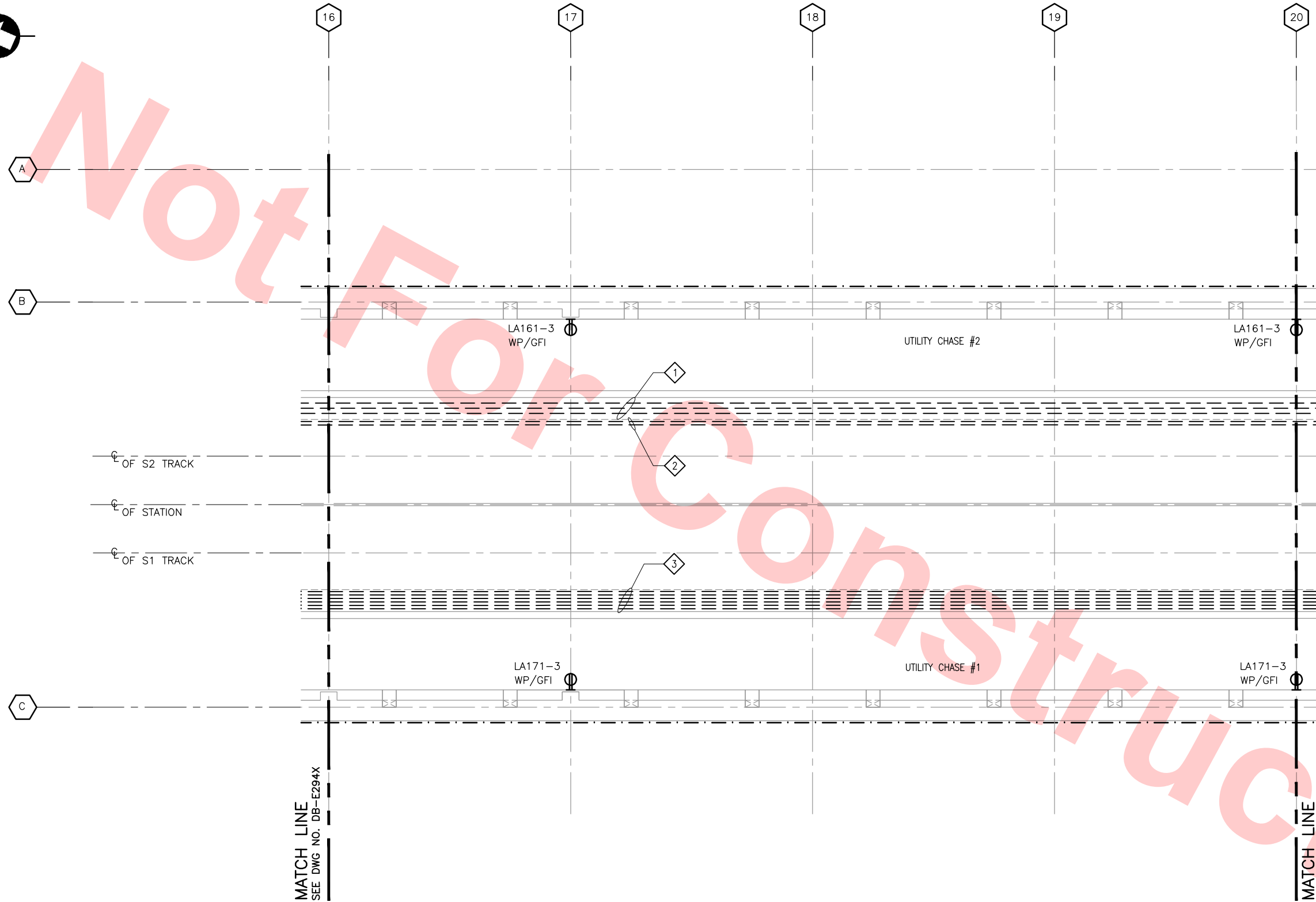
1436 California Circle
Milpitas, California 95035
A Joint Venture
Lookwood, Andrews
& Newman, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRACK LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 4 OF 6

CADD FILENAME C700-S-DB-E024X.dwg	REV. 0
SIZE D	SCALE 1/8"=1'-0"
CONTRACT NO. C700	SHEET NO. E024X
AREA CODE DB	PAGE NO. 0845

Jun 20, 2013 2:33pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E025X.dwg



MATCH LINE
SEE DWG NO. DB-E294X

MATCH LINE
SEE DWG NO. DB-E296X

TRACK LEVEL PLAN — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-E020

KEY NOTES

- 1 SYSTEM WIDE 34.5KV 3-6"C 34.5 KV (TPSS) IN STRUCTURAL INVERT.
- 2 2-4"C FIBER OPTIC IN STRUCTURAL INVERT
- 3 28-4"C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT.

NOTES

1. ALL CONDUIT RUNS AS PER SYSTEM POWER/CONTROLS/COMMUNICATION SHOWN HERE ARE FOR REFERENCE ONLY, FOR DETAILS, CONSULT WITH SYSTEMS ELECTRICAL ENGINEERS.
2. FOR ELCTRICAL ABBREVIATIONS SEE DWG. DB-E001.
3. FOR ELCTRICAL LAYOUT SYMBOLS SEE DWG. DB-E002.

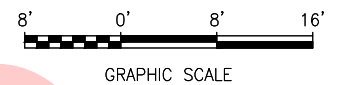
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

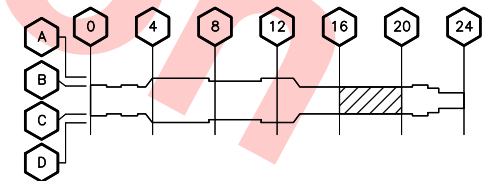
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: Date:

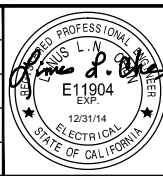


KEY PLAN



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E295, REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2339
SUBMITTED

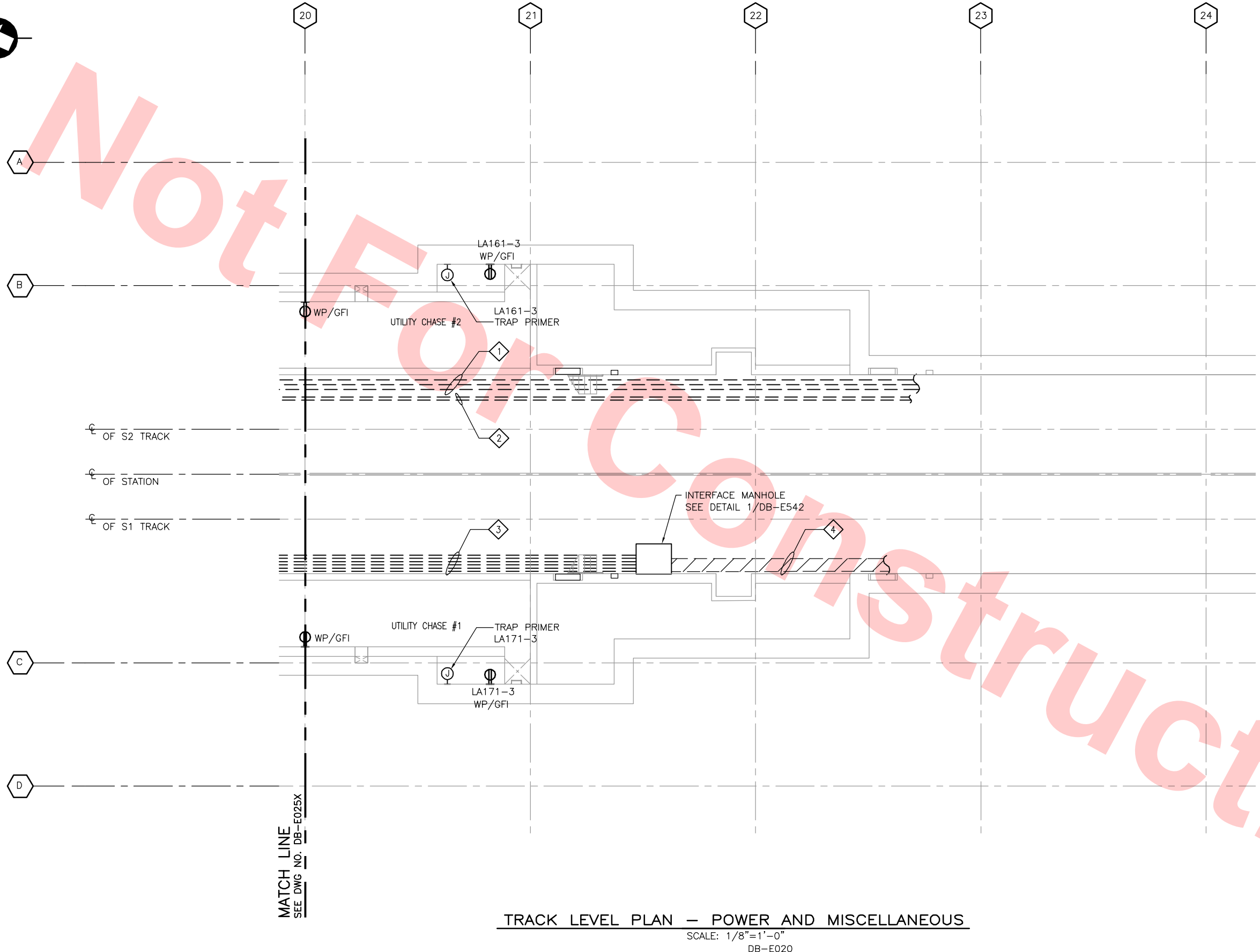
1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRACK LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 5 OF 6

CADD FILENAME C700-S-DB-E025X.dwg	REV. 0
SIZE SCALE D 1/8"=1'-0"	
CONTRACT NO. C700	
AREA CODE DB	PAGE NO. 0846
SHEET NO. E025X	

Jun 24, 2013 - 2:40pm C:\GIS\Maravilla\Milpitas Station\Project\Drawings\Sheet\C700-S-DB-E026X.dwg



TRACK LEVEL PLAN — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-E020

KEY NOTES

- 1 SYSTEM WIDE 34.5KV 3-6"C 34.5 KV (TPSS) IN STRUCTURAL INVERT.
- 2 2-4"C FIBER OPTIC IN STRUCTURAL INVERT
- 3 28-4"C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT.
- 4 SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS SYSTEM UNDER TRACKWAY WALKWAY.

NOTES

- 1. ALL CONDUIT RUNS AS PER SYSTEM POWER/CONTROLS/COMMUNICATION SHOWN HERE ARE FOR REFERENCE ONLY, FOR DETAILS, CONSULT WITH SYSTEMS ELECTRICAL ENGINEERS.
- 2. FOR ELCTRICAL ABBREVIATIONS SEE DWG. DB-E001.
- 3. FOR ELCTRICAL LAYOUT SYMBOLS SEE DWG. DB-E002.

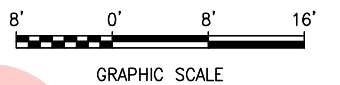
Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

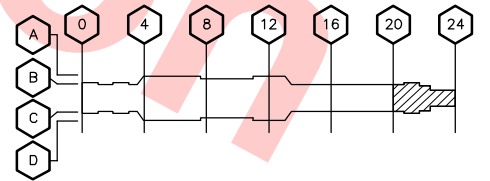
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: Date:



KEY PLAN



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E296, REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.

1970 Broadway, Suite 420
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2539

Lookwood, Andrews & Nowman, Inc.

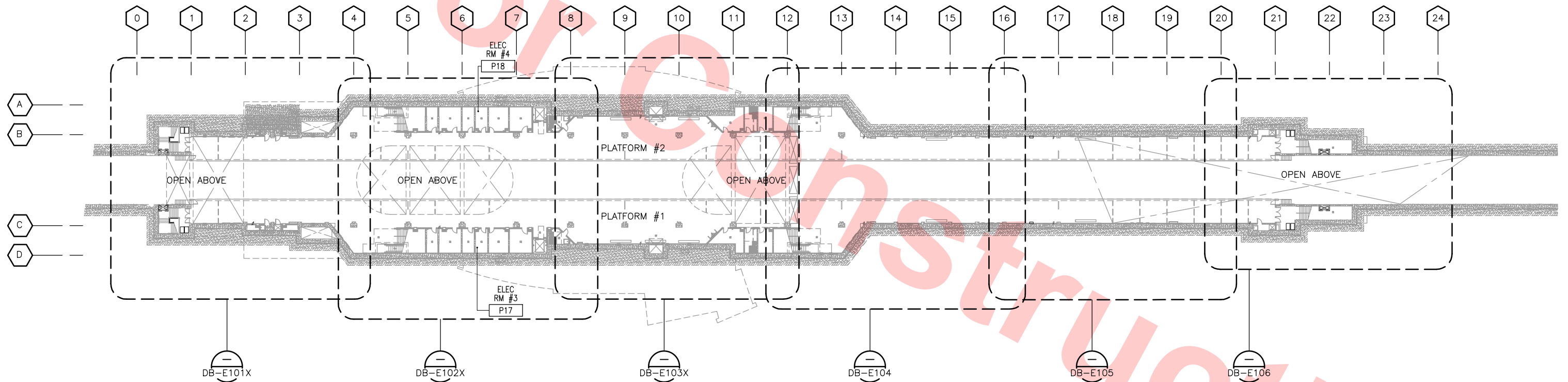
A LEED A RATED COMPANY

T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRACK LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 6 OF 6

CADD FILENAME C700-S-DB-E026X.dwg	REV. 0
SIZE D	SCALE 1/8"=1'-0"
CONTRACT NO. C700	SHEET NO. E026X
AREA CODE DB	PAGE NO. 0847



KEY PLAN — PLATFORM LEVEL — LIGHTING
SCALE: 1/32"=1'-0"

Santa Clara Valley Transportation Authority

— NO EXCEPTIONS TAKEN (NET)
— MAKE CORRECTIONS NOTED (MCN)
— AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

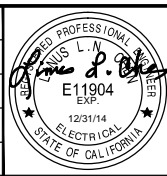
By: _____ Date: _____



Jun 20, 2013 2:24pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E100X.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130430



Skanska
Shimmick
Herzog

Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture

Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY

T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
KEY PLAN
PLATFORM LEVEL
LIGHTING

CADD FILENAME C700-S-DB-E100X.dwg	SIZE D	SCALE 1/32"=1'-0"	CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. E100X	PAGE NO. 0848		



NOTES

- 1. FOR LIGHTING FIXTURE SCHEDULE SEE DRAWING DB-E515 AND DB-E516
- 2. ALL SIGNAGE SHALL BE POWERED BY EMERGENCY POWER PANELS.

LIGHT FIXTURE TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
EL241-3/EL242-3	MX1	1
	M2	1
	M29	2
	M34B	2
	SIGNS	4
EL241-7/EL242-7	M1	3
EL241-9/EL242-9	M1	3
EL241-11/EL242-11	M1	2
L15-3/L151-3	M2	4
	M4C	1
	M18	1
	M34B	3
L15-7/L151-7	M36	4
L15-2/L151-2	M1	6
L15-4/L151-4	M1	5
L15-6/L151-6	M1	5
EL241-7/EL242-7	M1	3
EL241-9/EL242-9	SIGNS	2
	M1	3
EL241-11/EL242-11	SIGNS	1
	M1	2
	SIGNS	2

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

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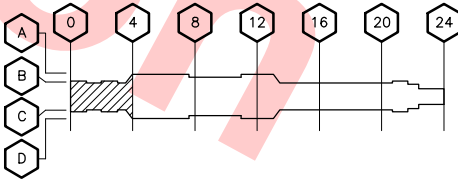
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



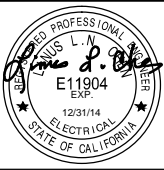
PLATFORM LEVEL PLAN – LIGHTING

SCALE: 1/8"=1'-0"
DB-E100X

Jun 20, 2013 2:24pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E101X.dwg

DESIGNED BY G. LALWANI	12/31/14
DRAWN BY G. MARAVILLA	EXP.
CHECKED BY L. CHEN	
IN CHARGE R. BARLAAN	
DATE 20130710	

0	20130710				READINESS FOR CONSTRUCTION
REV	DATE	BY	SUB	APP	DESCRIPTION



Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.

1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Lockwood, Andrews & Newnam, Inc.

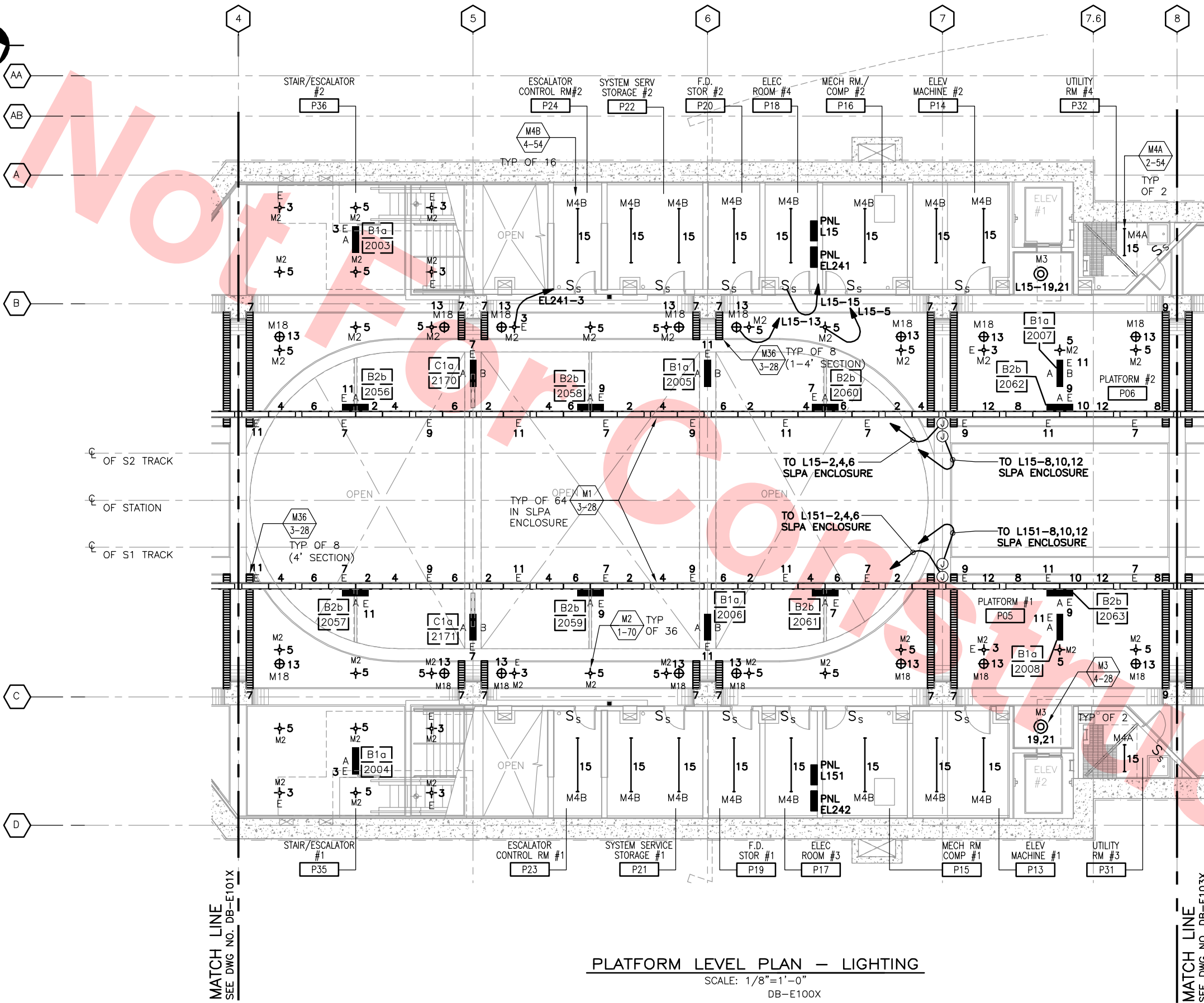
A L&A B&N COMPANY

T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PLATFORM LEVEL PLAN
LIGHTING
SHEET 1 OF 6

CADD FILENAME C700-S-DB-E101X.dwg	REV. 0
SIZE SCALE D 1/8"=1'-0"	
CONTRACT NO. C700	
AREA CODE DB	SHEET NO. E101X
	PAGE NO. 0849



PLATFORM LEVEL PLAN - LIGHTING
SCALE: 1/8"=1'-0"
DB-E100X

NOTE

- FOR LIGHTING FIXTURE SCHEDULE SEE DRAWING DB-E515 AND DB-E516
- ALL SIGNAGE SHOWN SHALL BE IN EMERGENCY CIRCUIT.

LIGHT FIXTURE TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
EL241-3/EL242-3	M2	5
	SIGNS	4
L15-5/L151-5	M2	13
L15-7/L151-7	M36	20
L15-9/L151-9	M36	4
L15-13/L151-13	M18	8
L15-15/L151-15	M4A	1
	M4B	8
L15-19/L151-19	M3	1
L15-21/L151-21	M3	1
L15-2/L151-2	M1	7
	M1	7
L15-4/L151-4	M1	7
L15-6/L151-6	M1	7
EL241-7/EL242-7	M1	4
	SIGNS	2
EL241-9/EL242-9	M1	3
	SIGNS	3
EL241-11/EL242-11	M1	4
	SIGNS	2

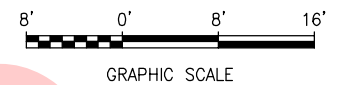
Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

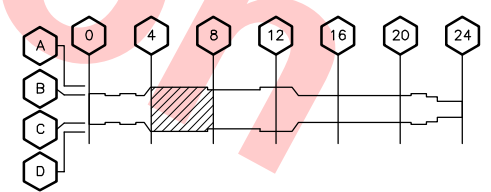
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____



KEY PLAN



DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 420
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

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Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PLATFORM LEVEL PLAN
LIGHTING
SHEET 2 OF 6

CADD FILENAME
C700-S-DB-E102X.dwg
SIZE SCALE
D 1/8"=1'-0"
CONTRACT NO.
C700
AREA CODE SHEET NO. PAGE NO.
DB E102X 0850



NOTES

- 1. FOR LIGHTING FIXTURE SCHEDULE SEE DRAWING DB-E515 AND DB-E516
- 2. ALL SIGNAGE SHALL BE IN EMERGENCY CIRCUIT.

LIGHT FIXTURE TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
EL241-3/EL242-3	M2	1
	SIGNS	1
L15-9/L151-9	M36	20
L15-13/L151-13	M2	5
L15-15/L151-15	M2	2
	M18	4
L15-19/L151-19	M3	8
L15-21/L151-21	M3	8
L15-23/L151-23	M4B	5
L15-2/L151-2	M1	7
L15-4/L151-4	M1	7
L15-6/L151-6	M1	7
EL241-7/EL242-7	M1	3
	SIGNS	2
EL241-9/EL242-9	M1	4
	SIGNS	2
EL241-11/EL242-11	M1	4
	SIGNS	2

Santa Clara Valley Transportation Authority

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- AMEND AND RESUBMIT (A/R)

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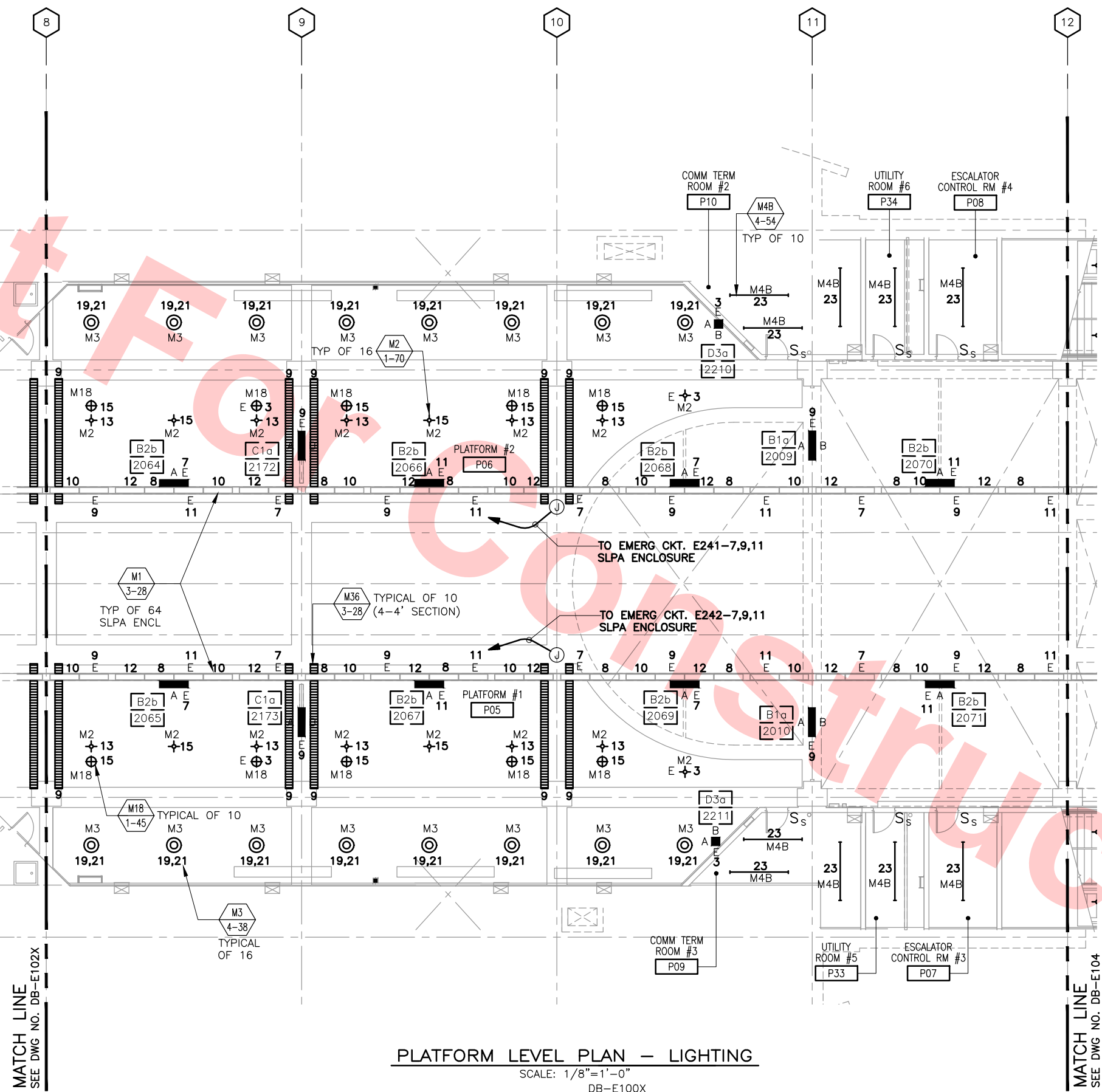
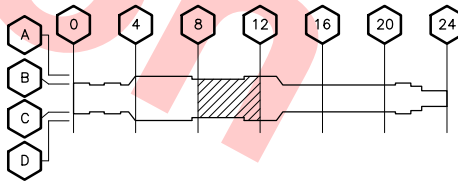
Contract No.: DB11002F

By: _____ Date: _____



GRAPHIC SCALE

KEY PLAN

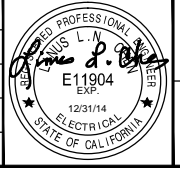


PLATFORM LEVEL PLAN – LIGHTING
SCALE: 1/8"=1'-0"
DB-E100X

Jun 20, 2013 2:24pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E103X.dwg

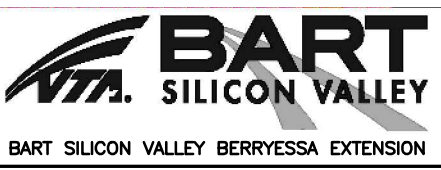
REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E203, REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED
Ray Adolph



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PLATFORM LEVEL PLAN
LIGHTING
SHEET 3 OF 6

CADD FILENAME C700-S-DB-E103X.dwg	REV. 0
SIZE D	SCALE 1/8"=1'-0"
CONTRACT NO. C700	SHEET NO. DB E103X
AREA CODE	PAGE NO. 0851



NOTE

- 1. FOR LIGHTING FIXTURE SCHEDULE SEE DRAWING DB-E515 AND DB-E516
- 2. ALL SIGNAGE SHOWN SHALL BE IN EMERGENCY CIRCUIT.

LIGHT FIXTURE TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
EL241-3/EL242-3	M2	2
EL241-5/EL242-5	M2	3
	SIGNS	1
L15-9/L151-9	M36	8
L15-15/L151-25	M2	18
	M18	2
L15-2/L151-2	M1	7
L15-4/L151-4	M1	8
L15-6/L151-6	M1	7
EL241-7/EL242-7	M1	4
	SIGNS	5
EL241-9/EL242-9	M1	3
	SIGNS	2
EL241-11/EL242-11	M1	3
	SIGNS	2

Santa Clara Valley Transportation Authority

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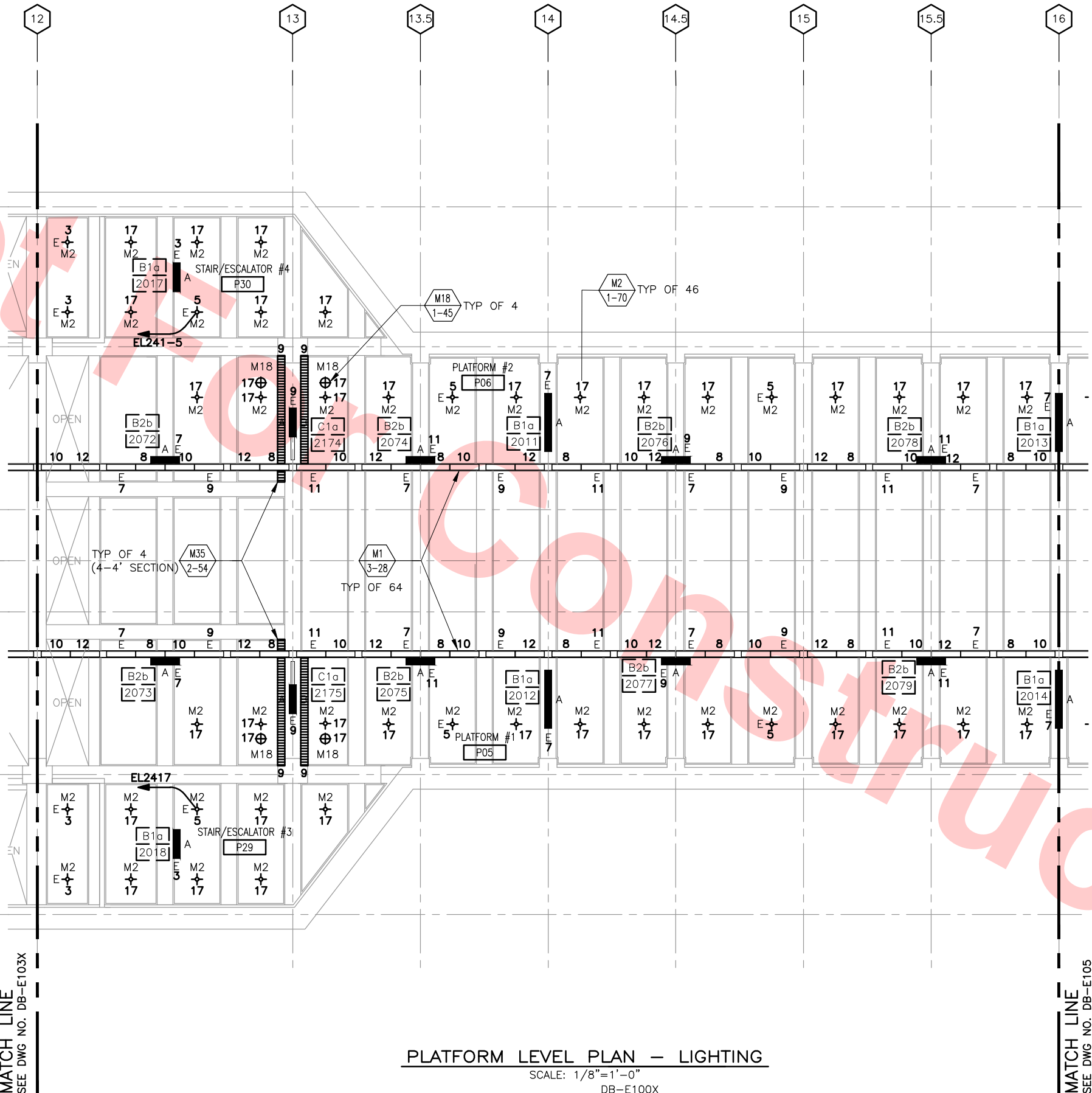
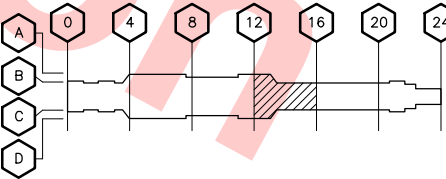
Contract No.: DB11002F

By: Date:



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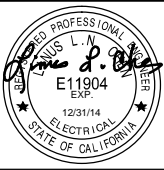
KEY PLAN



PLATFORM LEVEL PLAN – LIGHTING

SCALE: 1/8"=1'-0"
DB-E100X

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Milpitas, California 95035
A Joint Venture
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Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PLATFORM LEVEL PLAN
LIGHTING
SHEET 4 OF 6

CADD FILENAME
C700-S-DB-E104.dwg
SIZE SCALE
D 1/8"=1'-0"
CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. DB E104 PAGE NO. 0852



NOTE

- 1. FOR LIGHTING FIXTURE SCHEDULE SEE DRAWING DB-E515 AND DB-E516
- 2. ALL SIGNAGE SHALL BE IN EMERGENCY CIRCUIT.

LIGHT FIXTURE TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
EL241-5/EL242-5	M2	2
	M5	2
L15-11/L151-11	M5	3
L15-25/L151-25	M2	3
L15-2/L151-2	M1	7
L15-4/L151-4	M1	7
L15-6/L151-6	M1	7
EL241-7/EL242-7	M1	3
	SIGNS	2
EL241-9/EL242-9	M1	4
	SIGNS	2
EL241-11/EL242-11	M1	4
	SIGNS	3

Santa Clara Valley Transportation Authority

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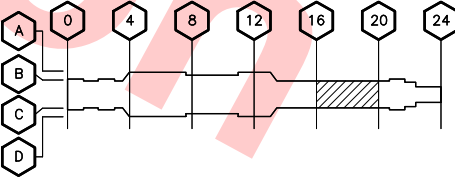
Contract No.: DB11002F

By: _____ Date: _____



GRAPHIC SCALE

KEY PLAN



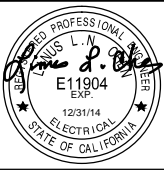
MATCH LINE
SEE DWG NO. DB-E104

MATCH LINE
SEE DWG NO. DB-E106

PLATFORM LEVEL PLAN – LIGHTING

SCALE: 1/8"=1'-0"
DB-E100X

DESIGNED BY
G. LALWANI
DRAWN BY
C. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339
SUBMITTED

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Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PLATFORM LEVEL PLAN
LIGHTING
SHEET 5 OF 6

CADD FILENAME
C700-S-DB-E105.dwg
SIZE SCALE
D 1/8"=1'-0"
CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. DB E105 PAGE NO. 0853



NOTE

- 1. FOR LIGHTING FIXTURE SCHEDULE SEE DRAWING DB-E515 AND DB-E516
- 2. ALL SIGNAGE SHALL BE IN EMERGENCY CIRCUIT.

LIGHT FIXTURE TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
EL241-5/EL242-5	MX1	1
	M4C	2
	M5	1
L15-11/L151-11	M5	1
	M4C	1
L15-2/L151-2	M1	2
L15-4/L151-4	M1	1
L15-6/L151-6	M1	2
EL241-7/EL242-7	M1	1
	SIGNS	
EL241-9/EL242-9	M1	1
	SIGNS	1
EL241-11/EL242-11	M1	1
	SIGNS	

Santa Clara Valley Transportation Authority

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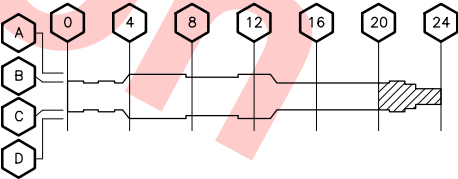
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



PLATFORM LEVEL PLAN – LIGHTING

SCALE: 1/8"=1'-0"
DB-E100X

Jun 20, 2013 2:35pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E106.dwg

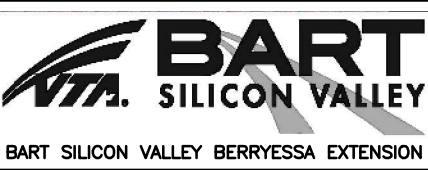
REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E206, REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



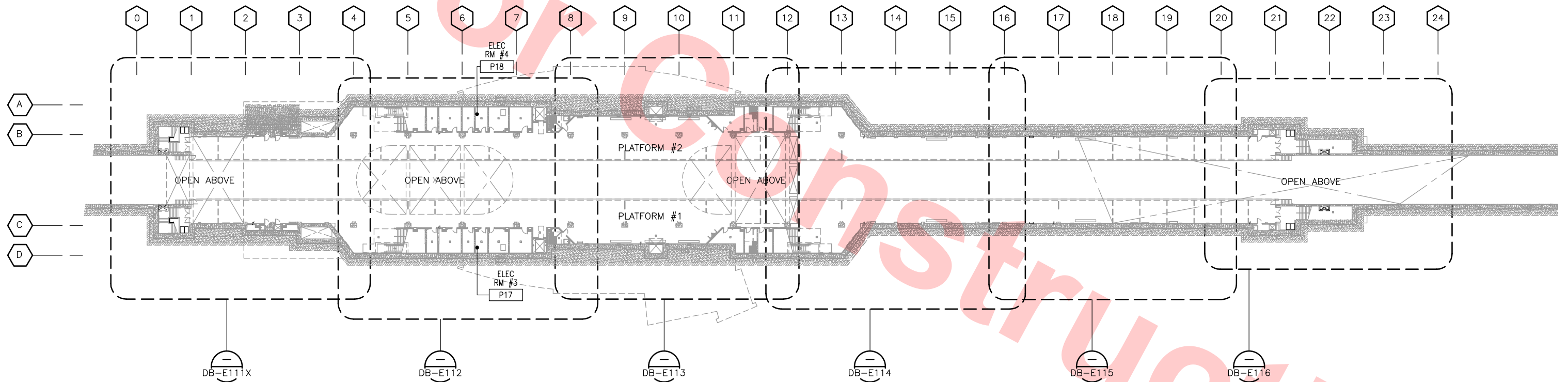
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED
Ray Adolph



LINE, TRACK STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PLATFORM LEVEL PLAN
LIGHTING
SHEET 6 OF 6

CADD FILENAME C700-S-DB-E106.dwg	REV. 0
SIZE SCALE D 1/8"=1'-0"	PAGE NO. 0854
CONTRACT NO. C700	SHEET NO. E106
AREA CODE DB	



KEY PLAN PLATFORM LEVEL — POWER AND MISCELLANEOUS
SCALE: 1/32"=1'-0"

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

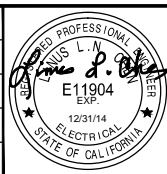
By: _____ Date: _____



Jun 20, 2013 2:35pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E110X.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog

Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture

Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY

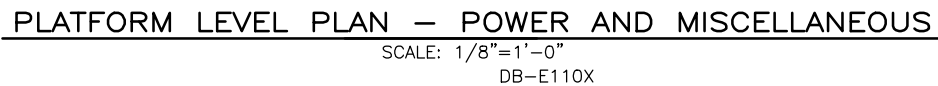
T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION

KEY PLAN PLATFORM LEVEL
POWER AND MISCELLANEOUS

CADD FILENAME C700-S-DB-E110X.dwg	REV. 0
SIZE D	SCALE 1/32"=1'-0"
CONTRACT NO. C700	SHEET NO. DB E110X
AREA CODE DB	PAGE NO. 0855



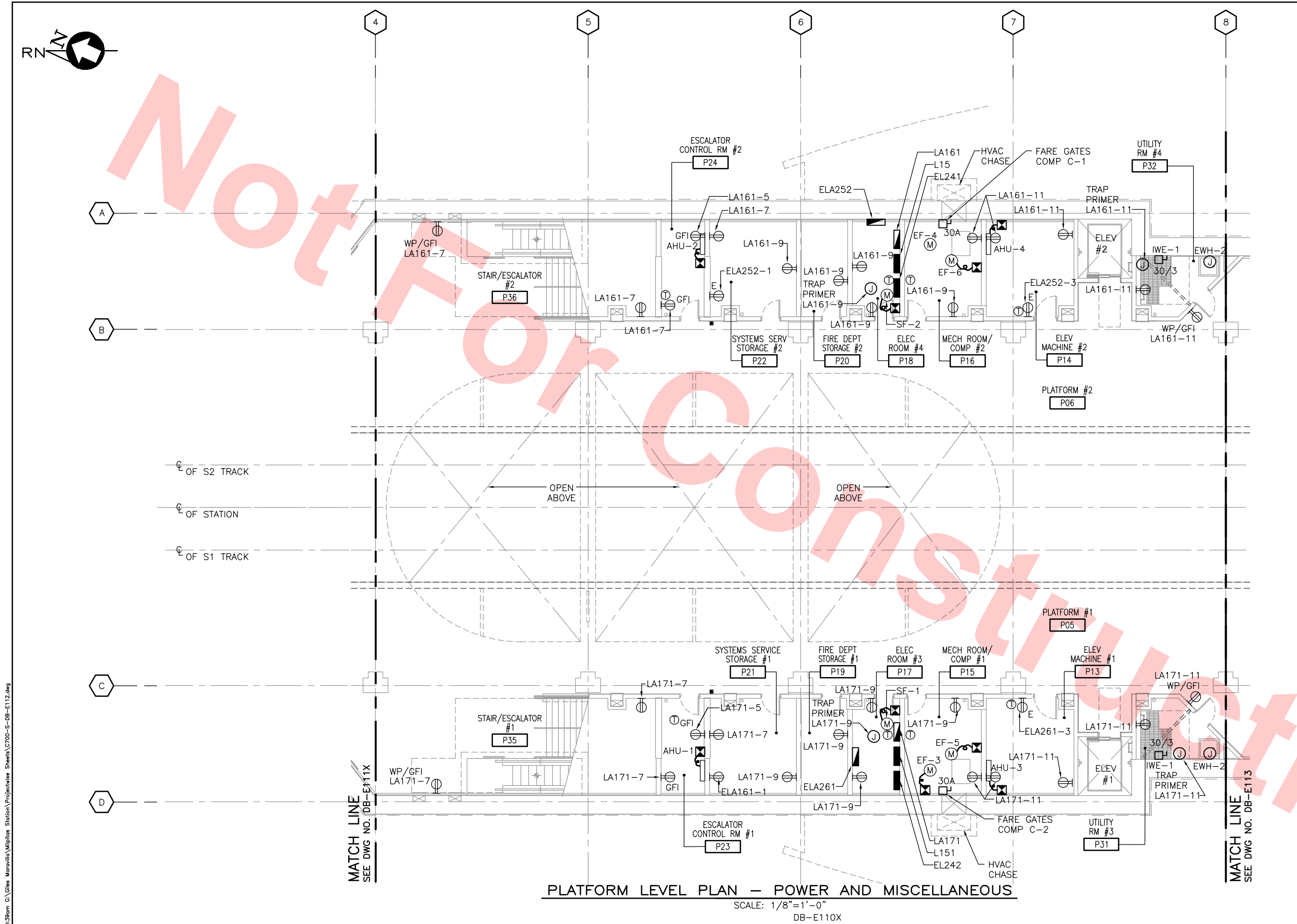
1. FOR RECEPTACLE CIRCUIT ASSIGNMENTS, SEE PANEL SCHEDULE DB-E521
2. TABULATION LIST POWER CIRCUIT NUMBERS FOR THE FANS ON THIS SHEET. COMBINE POWER TO MANY LOADS INCLUDING RECEPTACLES FROM SAME PANEL IN CONDUIT TOGETHER TO MINIMIZE CONDUIT RUNS, MAKE SURE THAT CONDUIT FILL MUST MEET THE LATEST NATIONAL ELECTRICAL CODE REQUIREMENT.
3. SEE PANEL SCHEDULES ON DRAWINGS DB-E520 TO DB-E525 FOR COMPLETE PANEL LOADING.

[illegible]

By: _____ **Date:** _____



CADD FILENAME C700-S-DB-E111X.dwg		
SIZE D	SCALE 1/8"=1'-0"	
CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. E111X	PAGE NO. 0856



NOTE

- FOR RECEPTACLE CIRCUIT ASSIGNMENTS, SEE PANEL SCHEDULE DB-E521
- TABULATION LIST POWER CIRCUIT NUMBERS FOR THE FANS ON THIS SHEET. COMBINE POWER TO MANY LOADS INCLUDING RECEPTACLES FROM SAME PANEL IN CONDUIT TOGETHER TO MINIMIZE CONDUIT RUNS, MAKE SURE THAT CONDUIT FILL MUST MEET THE LATEST NATIONAL ELECTRICAL CODE REQUIREMENT.
- SEE PANEL SCHEDULES ON DRAWINGS DB-E520 TO DB-E525 FOR COMPLETE PANEL LOADING.

MECH. EQUIP. TABULATIONS

EQUIP. ID	VOLT/PH	PNL. CKT.
AHU-2	208/1	LA161-4, 6
SF-2	120/1	LA161-2
EF-4	120/1	LA161-2
EF-6	120/1	LA161-2
AHU-4	208/1	LA161-8, 10
IWE-1	208/3	LA161-37,39,41
EWH-2	277/1	LA15-16
C-1	480/3	EL241-8,10,12
AHU-1	208/1	LA171-4, 6
SF-1	120/1	LA171-2
EF-3	120/1	LA171-2
EF-5	120/1	LA171-2
AHU-3	208/1	LA171-8, 10
IWE-1	208/3	LA171-37,39,41
EWH-2	277/1	LA151-16
C-2	480/3	EL242-8,10,12

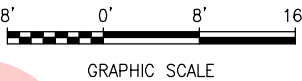
Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

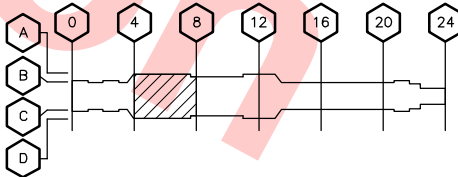
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

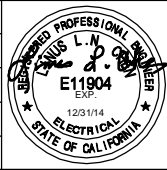


KEY PLAN



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E302, REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



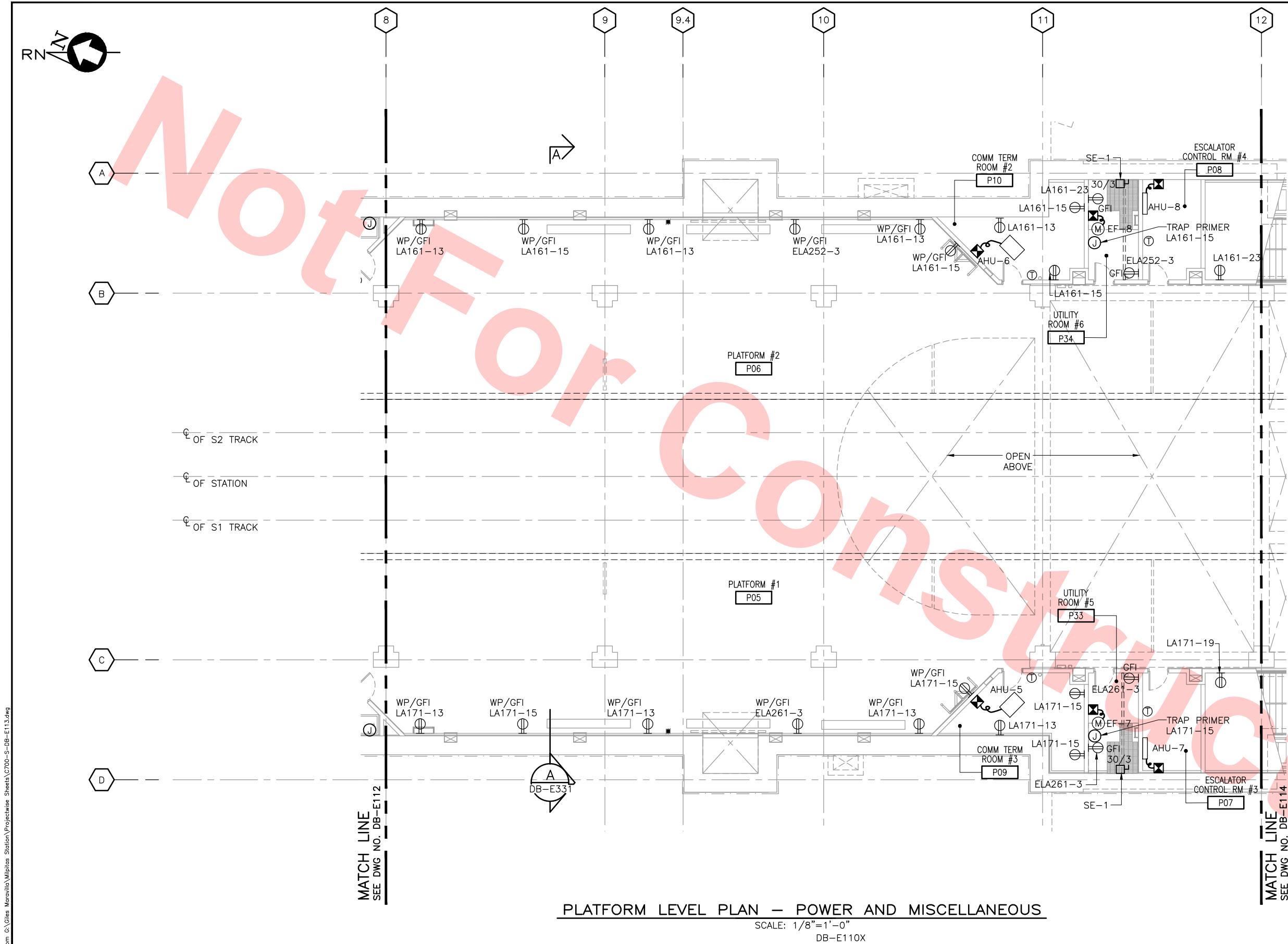
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 420
Milpitas, California 95035
Phone: (415) 455-2537 Fax: (415) 535-2539

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lookwood, Andrews
& Nowman, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PLATFORM LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 2 OF 6

CADD FILENAME C700-S-DB-E112.dwg	REV. 0
SIZE SCALE D 1/8"=1'-0"	PAGE NO. 0857
CONTRACT NO. C700	SHEET NO. E112
AREA CODE DB	



PLATFORM LEVEL PLAN — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-E110X

NOTE

- FOR RECEPTACLE CIRCUIT ASSIGNMENTS, SEE PANEL SCHEDULE DB-E521
- TABULATION LIST POWER CIRCUIT NUMBERS FOR THE FANS ON THIS SHEET. COMBINE POWER TO MANY LOADS INCLUDING RECEPTACLES FROM SAME PANEL IN CONDUIT TOGETHER TO MINIMIZE CONDUIT RUNS, MAKE SURE THAT CONDUIT FILL MUST MEET THE LATEST NATIONAL ELECTRICAL CODE REQUIREMENT.
- SEE PANEL SCHEDULES ON DRAWINGS DB-E520 TO DB-E525 FOR COMPLETE PANEL LOADING.

MECH. EQUIP. TABULATIONS

EQUIP. ID	VOLT/PH	PNL. CKT.
AHU-6	208/1	LA161-8, 10
EF-8	120/1	LA161-16
AHU-8	208/1	LA161-12, 14
SE-1	208/3	LA161-31,33,35
AHU-5	208/1	LA171-12, 14
EF-7	120/1	LA171-20
AHU-7	208/1	LA171-16, 18
SE-1	208/3	LA171-31,33,35

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

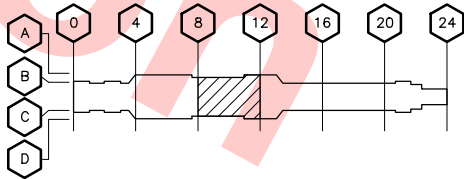
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: Date:



KEY PLAN



Jun 20, 2013 3:02pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E113.dwg
GilesM

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E303, REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Milpitas, California 95035
A Joint Venture
SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
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LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PLATFORM LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 3 OF 6

CADD FILENAME C700-S-DB-E113.dwg	
SIZE SCALE D 1/8"=1'-0"	
CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. E113
	PAGE NO. 0858



NOTE

- 1. FOR RECEPTACLE CIRCUIT ASSIGNMENTS, SEE PANEL SCHEDULE DB-E521
- 2. TABULATION LIST POWER CIRCUIT NUMBERS FOR THE FANS ON THIS SHEET. COMBINE POWER TO MANY LOADS INCLUDING RECEPTACLES FROM SAME PANEL IN CONDUIT TOGETHER TO MINIMIZE CONDUIT RUNS, MAKE SURE THAT CONDUIT FILL MUST MEET THE LATEST NATIONAL ELECTRICAL CODE REQUIREMENT.
- 3. SEE PANEL SCHEDULES ON DRAWINGS DB-E520 TO DB-E525 FOR COMPLETE PANEL LOADING.

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

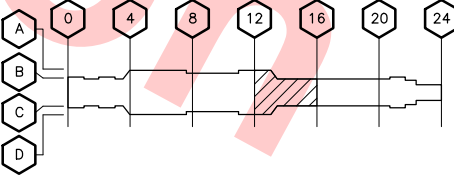
Contract No.: DB11002F

By: _____ Date: _____



GRAPHIC SCALE

KEY PLAN



PLATFORM LEVEL PLAN – POWER AND MISCELLANEOUS

SCALE: 1/8"=1'-0"
DB-E110X

MATCH LINE
SEE DWG NO. DB-E113

MATCH LINE
SEE DWG NO. DB-E115

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



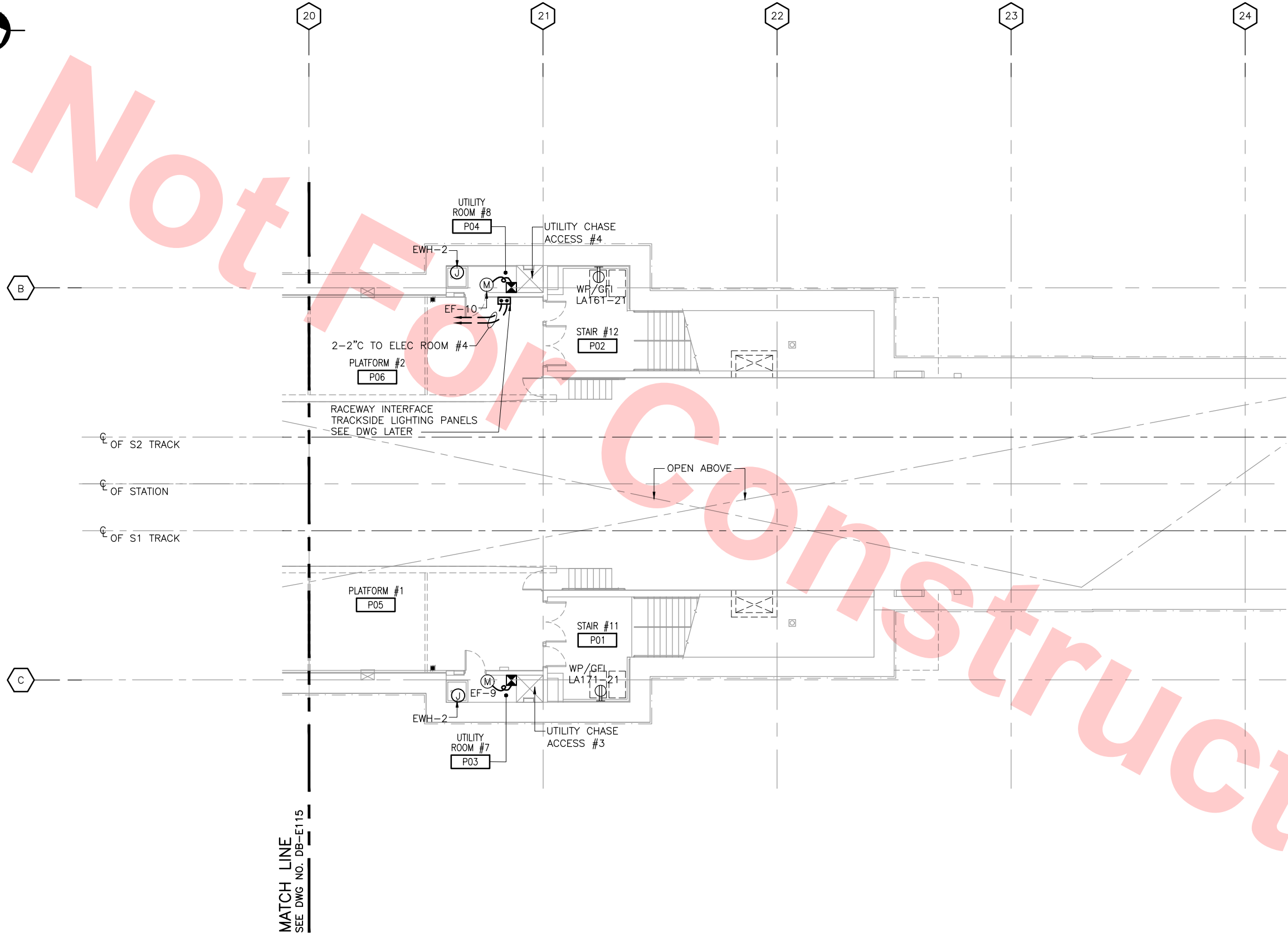
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339
SUBMITTED

1436 California Circle
Milpitas, California 95035
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Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
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LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PLATFORM LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 4 OF 6

CADD FILENAME
C700-S-DB-E114.dwg
SIZE SCALE
D 1/8"=1'-0"
CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. PAGE NO.
DB E114 0859



PLATFORM LEVEL PLAN — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-E110X

NOTE

- FOR RECEPTACLE CIRCUIT ASSIGNMENTS, SEE PANEL SCHEDULE DB-E521
- TABULATION LIST POWER CIRCUIT NUMBERS FOR THE FANS ON THIS SHEET. COMBINE POWER TO MANY LOADS INCLUDING RECEPTACLES FROM SAME PANEL IN CONDUIT TOGETHER TO MINIMIZE CONDUIT RUNS, MAKE SURE THAT CONDUIT FILL MUST MEET THE LATEST NATIONAL ELECTRICAL CODE REQUIREMENT.
- SEE PANEL SCHEDULES ON DRAWINGS DB-E520 TO DB-E525 FOR COMPLETE PANEL LOADING.

MECH. EQUIP. TABULATIONS

EQUIP. ID	VOLT/PH	PNL. CKT.
EF-10	120/1	LA161-16
EWH-2	277/1	LA15-18
EF-9	120/1	LA171-20
EWH-2	277/1	LA151-18

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

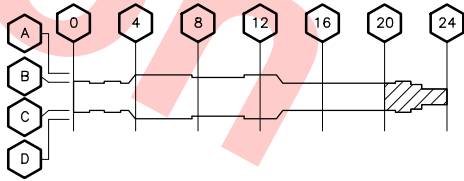
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____



KEY PLAN



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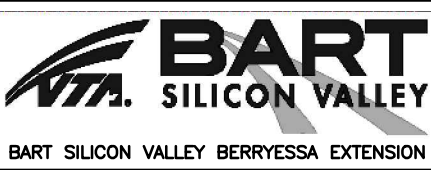
REV	DATE	BY	SUB	APP	DESCRIPTION
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DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



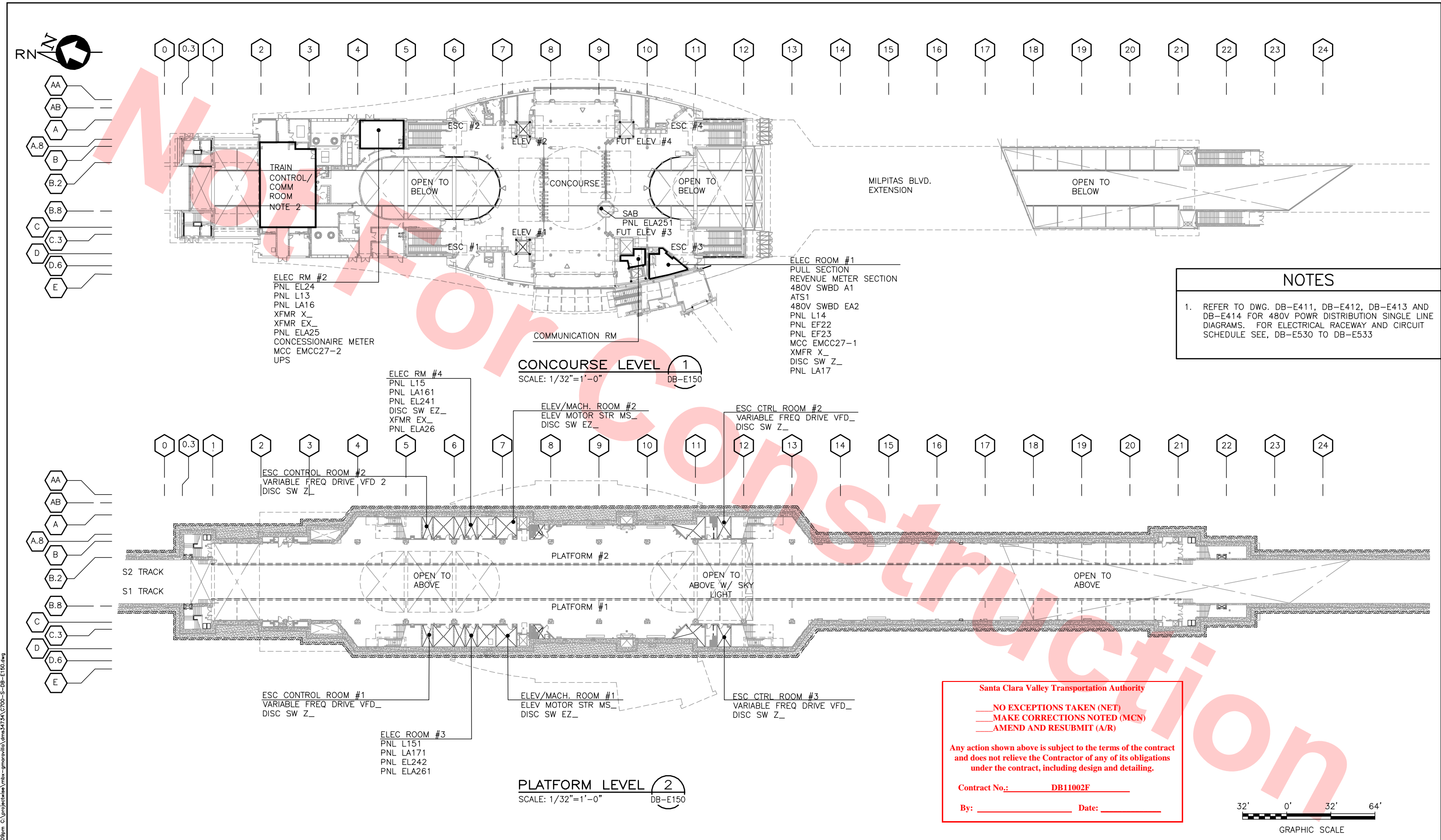
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED
Ray Adolph



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PLATFORM LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 6 OF 6

CADD FILENAME C700-S-DB-E116.dwg	
SIZE SCALE D 1/8"=1'-0"	
CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. E116
	PAGE NO. 0861



NOTES

1. REFER TO DWG. DB-E411, DB-E412, DB-E413 AND DB-E414 FOR 480V POWR DISTRIBUTION SINGLE LINE DIAGRAMS. FOR ELECTRICAL RACEWAY AND CIRCUIT SCHEDULE SEE, DB-E530 TO DB-E533

Santa Clara Valley Transportation Authority




___NO EXCEPTIONS TAKEN (NET)
___MAKE CORRECTIONS NOTED (MCN)
___AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: **DB11002F**

By: _____ Date: _____

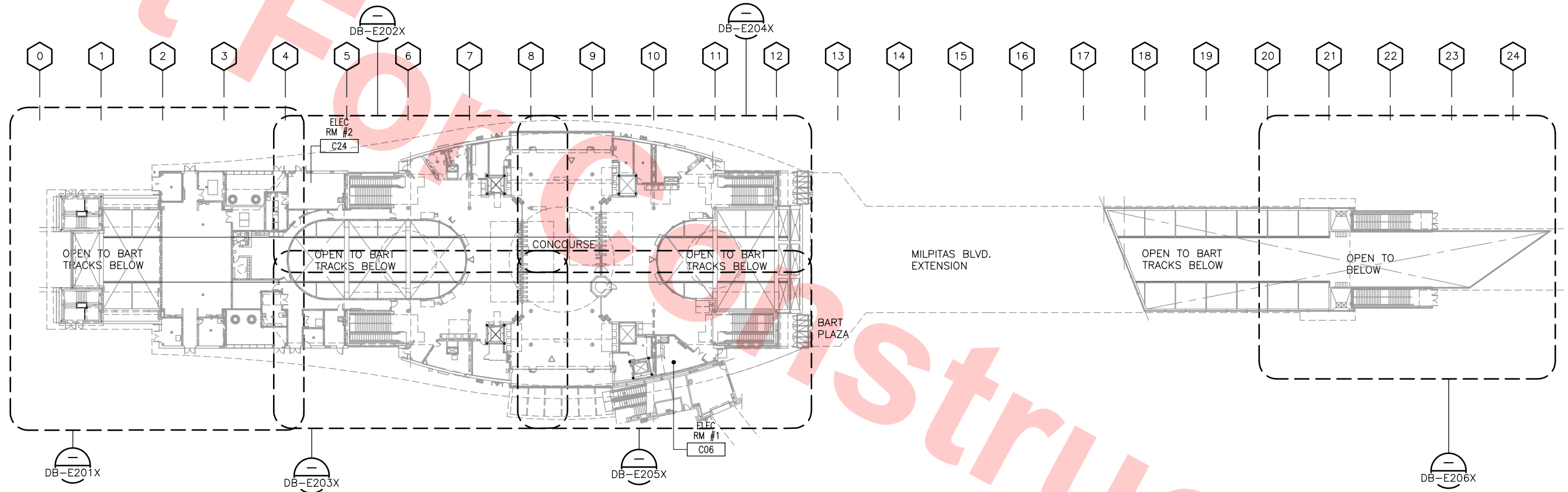
Jun 25, 2013 - 5:09pm C:\projects\mbox-gm\mbox\mbox34734\C700-S-DB-E150.dwg

					DESIGNED BY G. LALWANI		Skanska Shimmick Herzog 1436 California Circle Milpitas, California 95035 A Joint Venture	 Lookwood, Andrews & Nowman, Inc. 1970 Broadway, Suite 420 Oakland, CA 94612 Phone: (510) 435-2537 Fax: (510) 535-2539	T-Y-LIN INTERNATIONAL A LEO A WALLY COMPANY	 BART SILICON VALLEY BERRYESSA EXTENSION	LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION ELECTRICAL EQUIPMENT LOCATION PLAN PLATFORM AND CONCOURSE LEVELS	CADD FILENAME C700-S-DB-E150.dwg		
					CHECKED BY L. CHEN							SIZE SCALE D 1/32"=1'-0"	CONTRACT NO. C700	REV. 0
					IN CHARGE R. BARLAAN							AREA CODE DB	SHEET NO. E150	PAGE NO. 0862
0 20130710 READINESS FOR CONSTRUCTION REPLACED C700-DB-E111, REV. P					DATE 20130710									
REV	DATE	BY	SUB	APP	DESCRIPTION									



MONTAGUE EXPRESSWAY

A
B
C
D



KEY PLAN — CONCOURSE LEVEL — LIGHTING
SCALE: 1/32"=1'-0"

Santa Clara Valley Transportation Authority

- ___ NO EXCEPTIONS TAKEN (NET)
- ___ MAKE CORRECTIONS NOTED (MCN)
- ___ AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

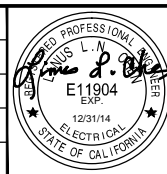
By: _____ Date: _____



Jun 20, 2013 3:50pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E200.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



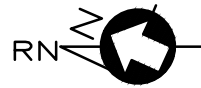
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
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APPROVED
Ray Adolph



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
KEY PLAN
CONCOURSE LEVEL
LIGHTING

CADD FILENAME C700-S-DB-E200.dwg	SIZE D	SCALE 1/32"=1'-0"
CONTRACT NO. C700	REV. 0	
AREA CODE DB	SHEET NO. E200	PAGE NO. 0863



NOTE

- 1. FOR LIGHTING FIXTURE SCHEDULE SEE DRAWING DB-E515 AND DB-E516.
- 2. CONTINUATION OF STAIR LIGHTING CIRCUITS ARE VIA PLATFORM LIGHTING CIRCUIT RUNS, SEE DRAWING DB-E101X.

LIGHT FIXTURE TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
EL241-3/EL242-3	M34B	3
	MX1	1
L15-3/L151-3	M34B	1
L15-5/L151-5	M13	2
L13-13	M4A	1
L13-14	M4B	6
	M25	5
	M4A	4
L13-15	M4B	5
	M9	3
	M10	6
L13-16	M25	5
L13-17	M4B	9
	M9	2
EL24-7	M4A	2
	M10	2
EL24-9	MX1	2

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
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- AMEND AND RESUBMIT (A/R)

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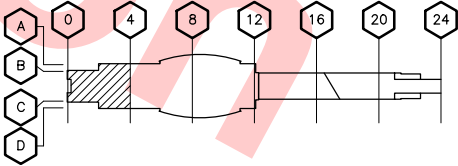
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



CONCOURSE LEVEL PLAN - LIGHTING
SCALE: 1/8"=1'-0"
DB-E200

Jun 20, 2013 3:54pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E201X.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E211, REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
C. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

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Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCOURSE LEVEL PLAN
LIGHTING
SHEET 1 OF 6

CADD FILENAME
C700-S-DB-E201X.dwg
SIZE SCALE
D 1/8"=1'-0"
CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. DB E201X PAGE NO. 0864



NOTE

1. FOR LIGHTING FIXTURE SCHEDULE SEE DRAWING DB-E515 AND DB-E516.

LIGHT FIXTURE TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
L13-4	M25	2
L13-19	M2	4
	M4B	4
	M9	6
	M19	6
L15-21	M2	3
EL24-9	MX1	2
	M2	3
	M4B	2
	M9	2

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
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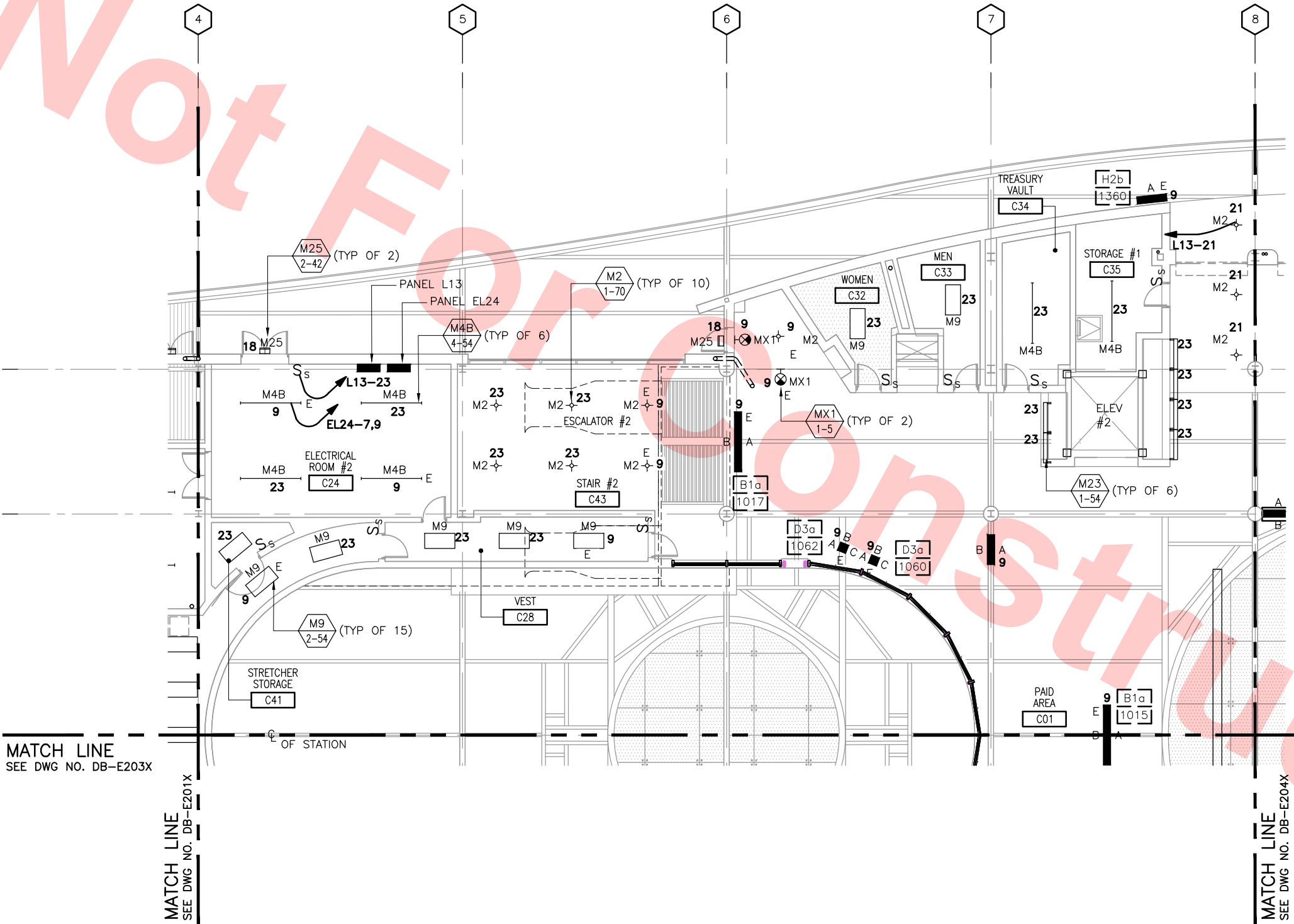
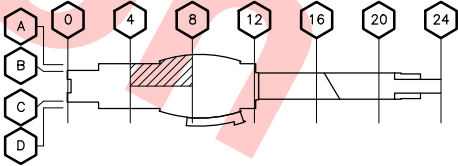
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



MATCH LINE
SEE DWG NO. DB-E203X

MATCH LINE
SEE DWG NO. DB-E201X

MATCH LINE
SEE DWG NO. DB-E204X

CONCOURSE LEVEL PLAN – LIGHTING
SCALE: 1/8"=1'-0"
DB-E200

Jun 20, 2013 3:54pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E202X.dwg

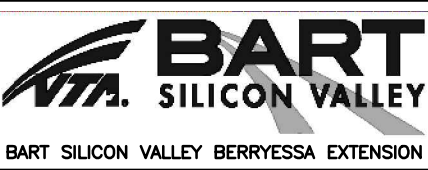
REV	DATE	BY	SUB	APP	DESCRIPTION
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DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Milpitas, California 95035
Phone: (415) 455-2537 Fax: (415) 535-2339

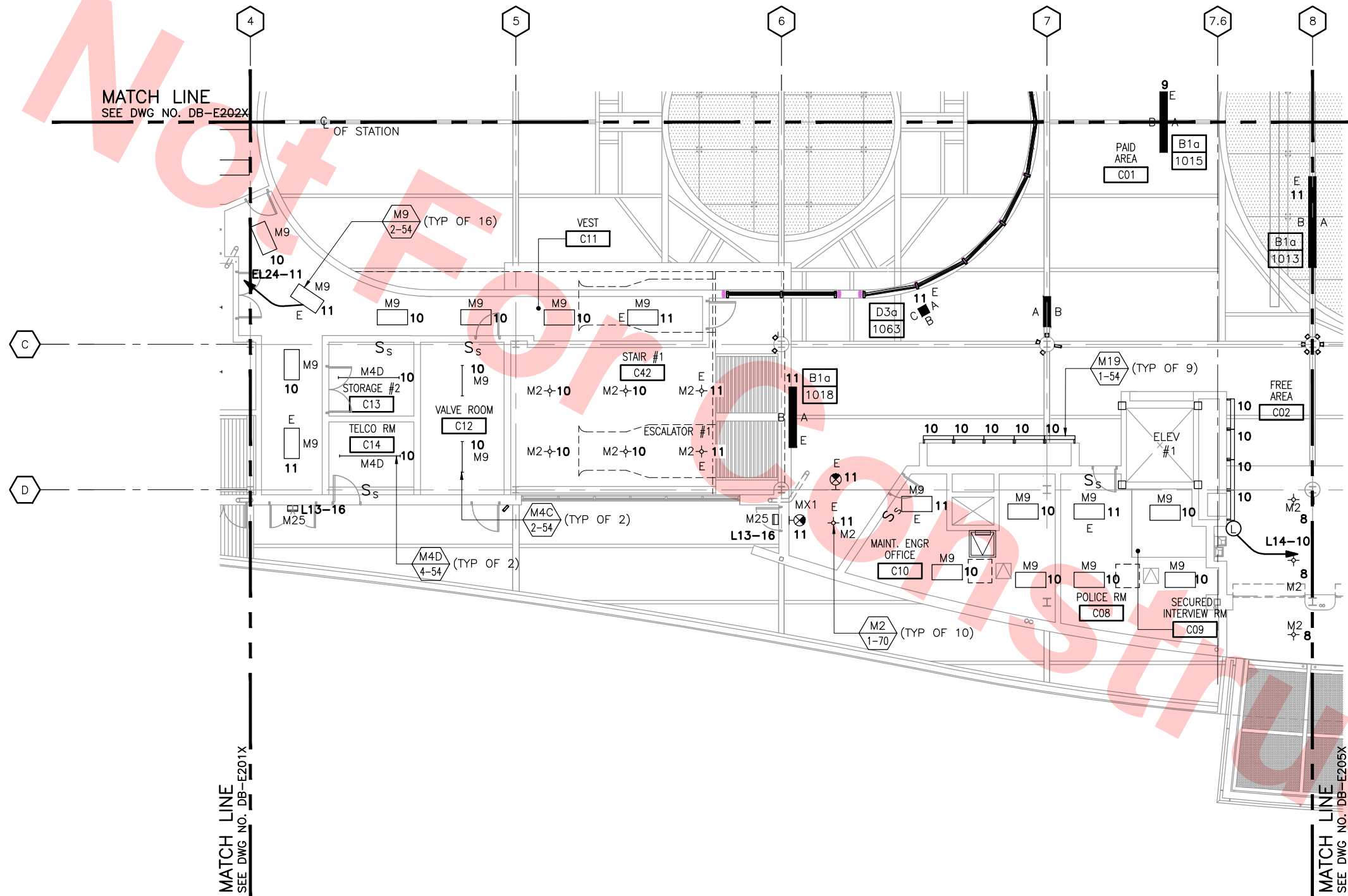
1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED
Ray Adolph



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCOURSE LEVEL PLAN
LIGHTING
SHEET 2 OF 6

CADD FILENAME C700-S-DB-E202X.dwg	REV.	0
SIZE SCALE D 1/8"=1'-0"	CONTRACT NO.	C700
AREA CODE DB	SHEET NO.	E202X
PAGE NO.	0865	

Jun 20, 2013 3:05pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E203X.dwg



CONCOURSE LEVEL PLAN — LIGHTING
SCALE: 1/8"=1'-0"
DB-E200

NOTE

- FOR LIGHTING FIXTURE SCHEDULE SEE DRAWING DB-E515 AND DB-E516.

LIGHT FIXTURE TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
L13-16	M25	2
L14-8	M2	3
L14-10	M2	4
	M4D	2
	M9	13
	M19	9
EL24-11	MX1	2
	M2	3
	M9	5

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

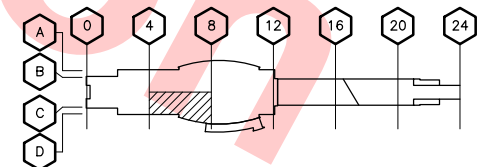
Contract No.: DB11002F

By: _____ Date: _____



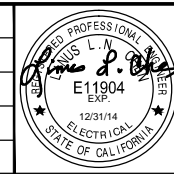
GRAPHIC SCALE

KEY PLAN



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E213, REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Milpitas, California 95035
A Joint Venture
SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCOURSE LEVEL PLAN
LIGHTING
SHEET 3 OF 6

CADD FILENAME
C700-S-DB-E203X.dwg
SIZE SCALE
D 1/8"=1'-0"
CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. DB E203X PAGE NO. 0866



NOTE

1. FOR LIGHTING FIXTURE SCHEDULE SEE DRAWING DB-E515 AND DB-E516.

LIGHT FIXTURE TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
L13-14	M25	1
	M2	13
L13-21	M4B	1
	M10	3
	M19	9
EL24-9	MX1	2
	M2	6
	M4B	2
	M10	1

Santa Clara Valley Transportation Authority

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- AMEND AND RESUBMIT (A/R)

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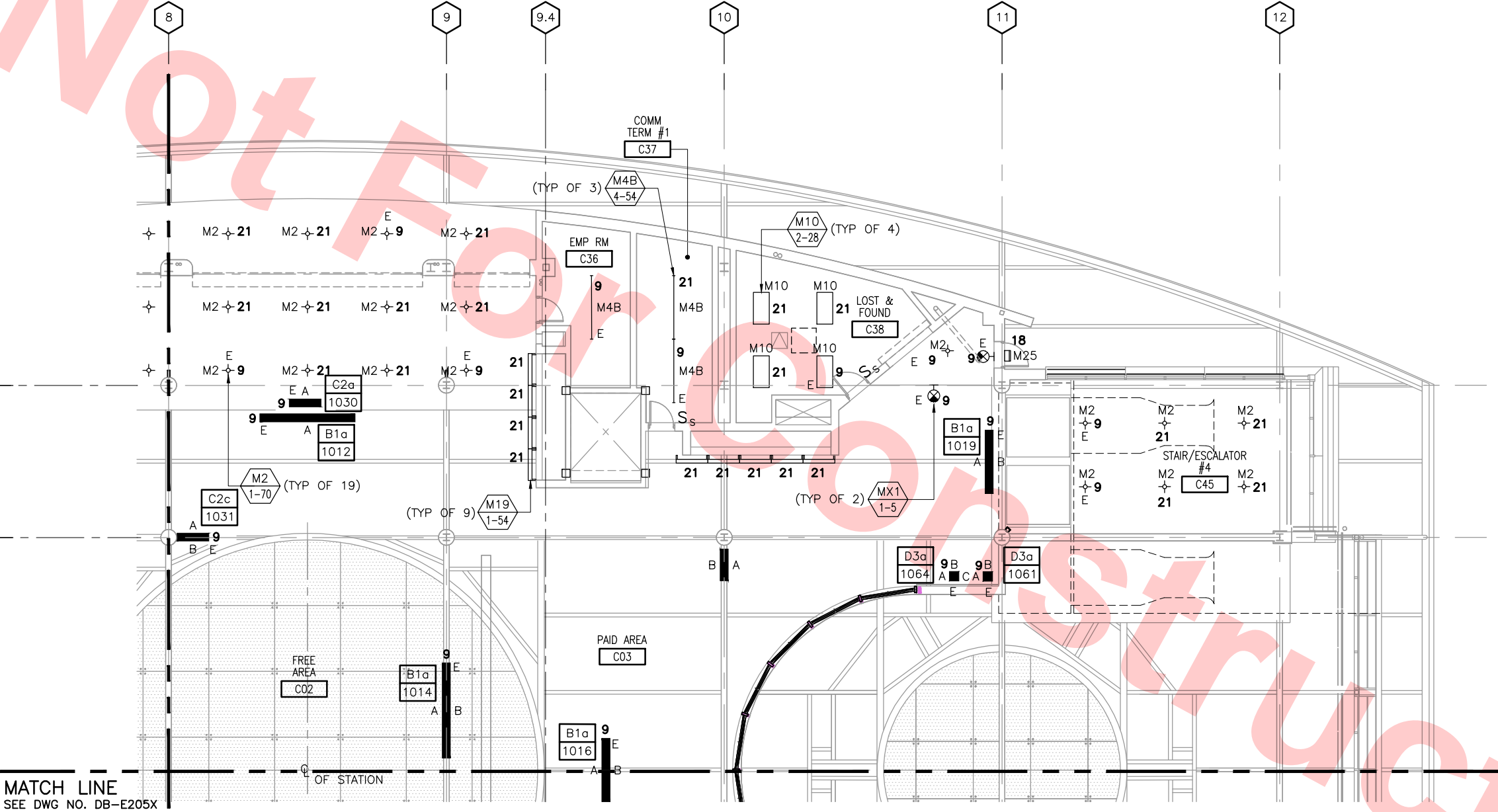
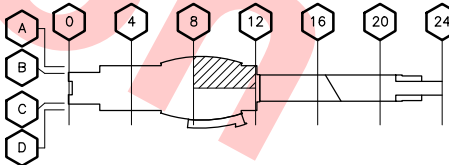
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



MATCH LINE
SEE DWG NO. DB-E205X

MATCH LINE
SEE DWG NO. DB-E202X

CONCOURSE LEVEL PLAN – LIGHTING
SCALE: 1/8"=1'-0"
DB-E200

Jun 20, 2013 3:01pm C:\Giles\Maravilla\Milpitas Station\Project\Drawings\Sheets\C700-S-DB-E204X.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-214, REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lookwood, Andrews
& Newman, Inc.
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LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCOURSE LEVEL PLAN
LIGHTING
SHEET 4 OF 6

CADD FILENAME C700-S-DB-E204X.dwg	CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. E204X	PAGE NO. 0867



NOTE

1. FOR LIGHTING FIXTURE SCHEDULE SEE DRAWING DB-E515 AND DB-E516.

LIGHT FIXTURE TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
L13-16	M25	1
	M2	15
	M4B	1
	M4C	1
	M4D	2
L14-8	M19	5
	MX1	2
	M2	6
	M4B	1
	M4B	1
EL24-11	M9	1

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
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- AMEND AND RESUBMIT (A/R)

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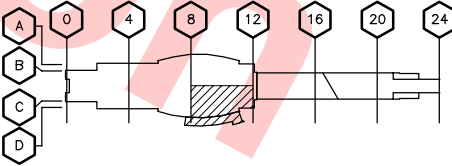
Contract No.: DB11002F

By: _____ Date: _____



GRAPHIC SCALE

KEY PLAN



MATCH LINE
SEE DWG NO. DB-E204X

MATCH LINE
SEE DWG NO. DB-E203X

CONCOURSE LEVEL PLAN – LIGHTING
SCALE: 1/8"=1'-0"
DB-E200

Jun 27, 2013 1:20pm C:\Current Projects\Bart-Berryessa Extension Project\Station - Milpitas\CAD Drawings Out\13-0710 C700 Milpitas Station - RFS Submit\C700-S-DB-E205X.dwg

DESIGNED BY G. LALWANI	12/31/14
DRAWN BY G. MARAVILLA	E11904
CHECKED BY L. CHEN	EXP.
IN CHARGE R. BARLAAN	STATE OF CALIFORNIA
DATE 20130710	

0	20130710				READINESS FOR CONSTRUCTION
REV	DATE	BY	SUB	APP	DESCRIPTION
					REPLACED C700-DB-E215, REV. P



Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.
1970 Broadway, Suite 420
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Submitted *[Signature]*

Lookwood, Andrews & Nowman, Inc.
A LEA A BALLY COMPANY

T-Y-LIN INTERNATIONAL

Approved *[Signature]*

BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCOURSE LEVEL PLAN
LIGHTING
SHEET 5 OF 6

CADD FILENAME C700-S-DB-E205X.dwg	REV. 0
SIZE D	SCALE 1/8"=1'-0"
CONTRACT NO. C700	SHEET NO. E205X
AREA CODE DB	PAGE NO. 0868



NOTE

- 1. FOR LIGHTING FIXTURE SCHEDULE SEE DRAWING DB-E515 AND DB-E516.
- 2. CONTINUATION OF STAIR LIGHTING CIRCUITS ARE VIA PLATFORM LIGHTING CIRCUIT RUNS, SEE DRAWING DB-E106.

LIGHT FIXTURE TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
L13-14	M25	1
L13-16	M25	1
EL241-5/EL242-5	MX1	1
	M19	3

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

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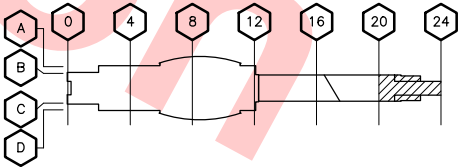
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



CONCOURSE LEVEL PLAN — LIGHTING

SCALE: 1/8"=1'-0"
DB-E200

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



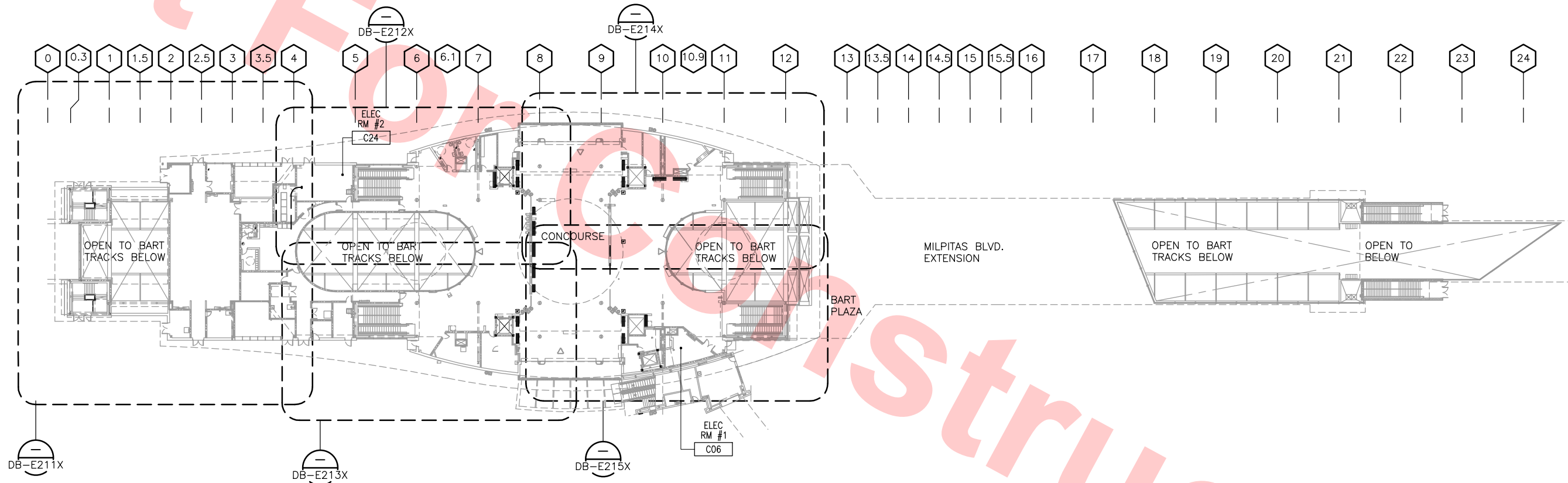
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2339
SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCOURSE LEVEL PLAN
LIGHTING
SHEET 6 of 6

CADD FILENAME
C700-S-DB-E206X.dwg
SIZE SCALE
D 1/8"=1'-0"
CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. DB E206X PAGE NO. 0869



KEY PLAN -CONCOURSE LEVEL - POWER AND MISCELLANEOUS
SCALE: 1/32"=1'-0"

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____



Jun 20, 2013 3:20pm G:\GIS\Maravilla\Milpitas Station\Project\Drawings\Sheets\C700-S-DB-E210.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710

Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Lookwood, Andrews & Newman, Inc.
A LEOPOLD & LOEB COMPANY

T-Y-LIN INTERNATIONAL

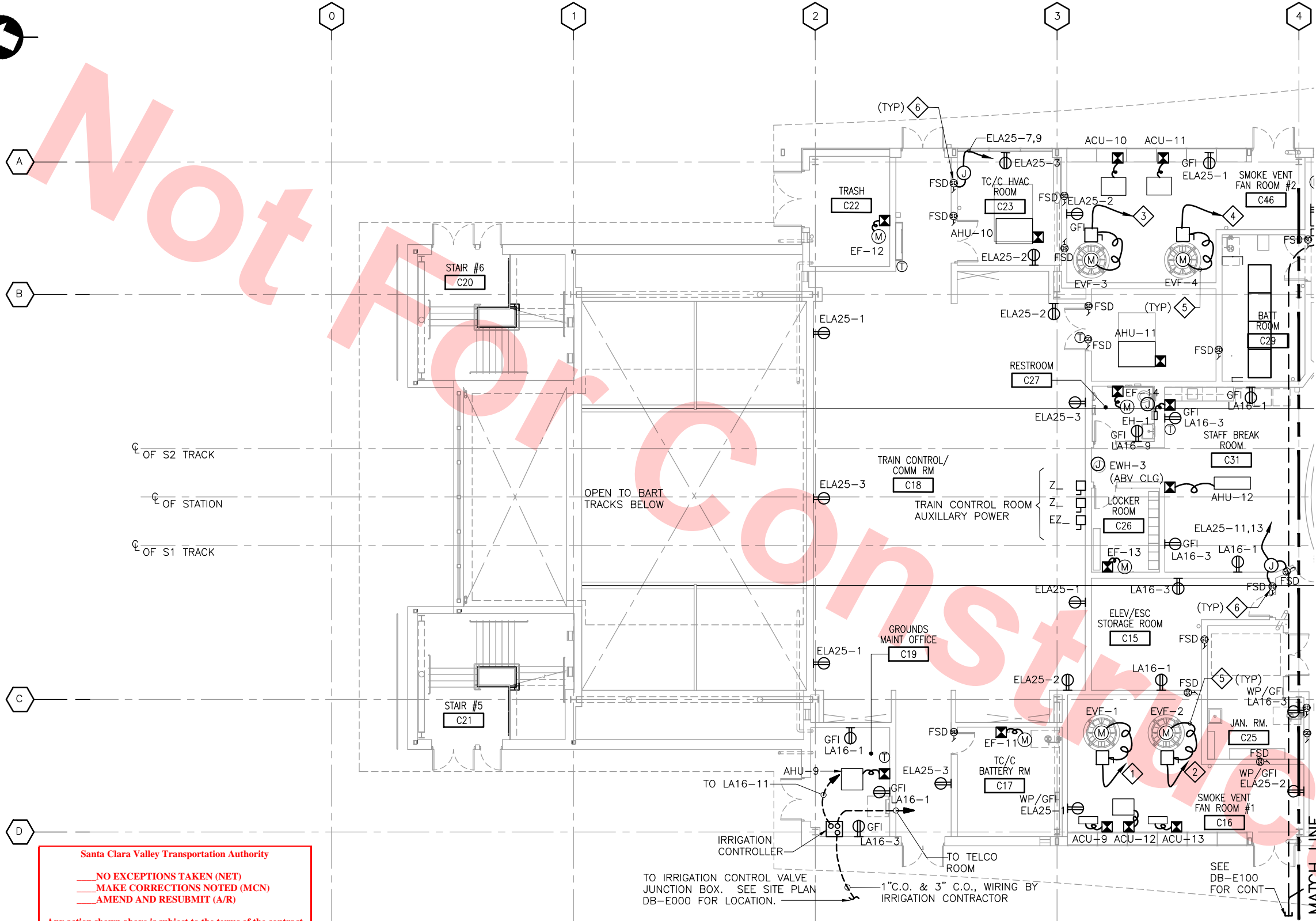
APPROVED *[Signature]*

BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
KEY PLAN
CONCOURSE LEVEL
POWER AND MISCELLANEOUS

CADD FILENAME C700-S-DB-E210.dwg	REV. 0
SIZE D	SCALE 1/32"=1'-0"
CONTRACT NO. C700	SHEET NO. E210
AREA CODE DB	PAGE NO. 0870



Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
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Contract No.: DB11002F

By: _____ Date: _____

CONCOURSE LEVEL PLAN — POWER AND MISCELLANEOUS

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

DB-E210

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

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Milpitas, California 95035
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& Newman, Inc.
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APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCOURSE LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 1 OF 5

CADD FILENAME
C700-S-DB-E211X.dwg
SIZE | SCALE
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CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. DB E211X PAGE NO. 0871

KEY NOTES

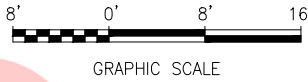
- TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-1", CIRCUIT EMCC2711
- TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-1", CIRCUIT EMCC2712
- TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-2", CIRCUIT EMCC2721
- TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-2", CIRCUIT EMCC2722
- PROVIDE WEATHERPROOF FLEXIBLE CONDUIT FROM DISC. SWITCH TO FAN MOTOR.
- "FSD" FIRE SMOKE DAMPERS, 4 CKTS PROVIDED FOR POWER (1 CKT EA FOR NORTH & SOUTH SIDE). SEE MECH DWGS FOR LOCATIONS.

NOTES

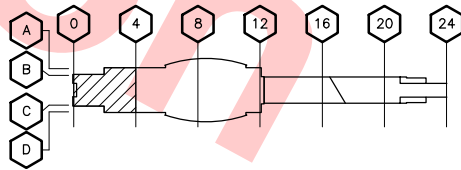
- TO PARKING STRUCTURE TO BE EXTENDED BY C720.
- DENOTES AREA ALLOCATED FOR CONDUIT STUB-UPS.
- FOR CONT SEE DWG DB-E100.
- FOR RECEPTACLE CIRCUIT ASSIGNMENTS, SEE PANEL SCHEDULE DB-E521
- TABULATION LIST POWER CIRCUIT NUMBERS FOR THE FANS ON THIS SHEET. COMBINE POWER TO MANY LOADS INCLUDING RECEPTACLES FROM SAME PANEL IN CONDUIT TOGETHER TO MINIMIZE CONDUIT RUNS, MAKE SURE THAT CONDUIT FILL MUST MEET THE LATEST NATIONAL ELECTRICAL CODE REQUIREMENT.
- SEE PANEL SCHEDULES ON DRAWINGS DB-E520 TO DB-E525 FOR COMPLETE PANEL LOADING.

MECH. EQUIP. TABULATIONS

EQUIP. ID	VOLT/PH	PNL. CKT.
EF-12	120/1	LA16-14
EF-14	120/1	LA16-14
EH-1	208/1	LA16-16, 18
AHU-10	460/3	L13-26, 28, 30
ACU-10	460/3	L13-32, 34, 36
AHU-11	460/3	L13-31, 33, 35
ACU-11	460/3	L13-37, 39, 41
AHU-12	460/3	L13-8, 10, 12
ACU-12	460/3	L13-20, 22, 24
AHU-9	208/1	LA16-8, 10
ACU-9	208/1	LA16-14, 16
EF-11	120/1	LA16-20
EF-13	120/1	LA16-20
ACU-13	208/1	LA16-18, 20



KEY PLAN





KEY NOTES

- 1 DISC. SWITCH FOR ROLLING GRILLE
- 2 GROUNDING BUS BAR TEST STATION

NOTES

- COORDINATE EXACT LOCATION OF UNDER FLOOR DUCTS AT AUTOMATIC FARE COLLECTION EQUIPMENT. REFER TO STANDARD DETAILS SHOWN ON J-002, J-004, AND J-006. UNDER FLOOR DUCT ROUTING IS FOR GUIDANCE ONLY.
- RUN CONDUITS IN FLOOR SLAB AND DETERMINE THE NUMBER OF CONDUITS REQUIRED PLUS ONE SPARE CONDUIT PER SYSTEMS REQUIREMENTS.
- FOR RECEPTACLE CIRCUIT ASSIGNMENTS, SEE PANEL SCHEDULE DB-E521
- TABULATION LIST POWER CIRCUIT NUMBERS FOR THE FANS ON THIS SHEET. COMBINE POWER TO MANY LOADS INCLUDING RECEPTACLES FROM SAME PANEL IN CONDUIT TOGETHER TO MINIMIZE CONDUIT RUNS, MAKE SURE THAT CONDUIT FILL MUST MEET THE LATEST NATIONAL ELECTRICAL CODE REQUIREMENT.
- SEE PANEL SCHEDULES ON DRAWINGS DB-E520 TO DB-E525 FOR COMPLETE PANEL LOADING.

MECH. EQUIP. TABULATIONS

EQUIP. ID	VOLT/PH	PNL. CKT.
EF-16	120/1	LA16-22
EF-15	120/1	LA16-22
SF-3	120/1	LA16-37
C/02A	120/1	LA16-24 (ROLLING GRILLE)

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

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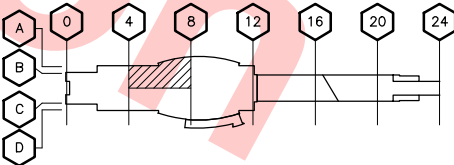
Contract No.: DB11002F

By: _____ Date: _____



GRAPHIC SCALE

KEY PLAN



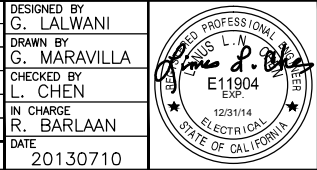
CONCOURSE LEVEL PLAN – POWER AND MISCELLANEOUS

SCALE: 1/8"=1'-0"
DB-E210

Jun 20, 2013 3:21pm C:\Giles Maravilla\Milpitas Station\Project\Drawings\Sheets\C700-S-DB-E212X.dwg

DESIGNED BY G. LALWANI	12/31/14
DRAWN BY G. MARAVILLA	12/31/14
CHECKED BY L. CHEN	12/31/14
IN CHARGE R. BARLAAN	12/31/14
DATE 20130710	12/31/14

0	20130710				READINESS FOR CONSTRUCTION
REV	DATE	BY	SUB	APP	DESCRIPTION



Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

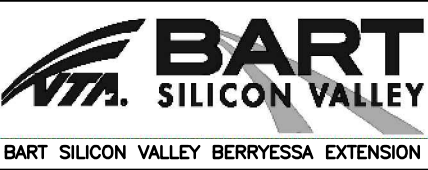
Anil Verma Associates, Inc.

1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Lookwood, Andrews & Newman, Inc.

A LEAD & BALLY COMPANY

T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCOURSE LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 2 OF 5

CADD FILENAME C700-S-DB-E212X.dwg	REV. 0
SIZE SCALE D 1/8"=1'-0"	PAGE NO. 0872
CONTRACT NO. C700	
AREA CODE DB	SHEET NO. E212X



KEY NOTES

- 1 DISC. SWITCH FOR ROLLING GRILLE

NOTES

- COORDINATE EXACT LOCATION OF UNDER FLOOR DUCTS AT AUTOMATIC FARE COLLECTION EQUIPMENT. REFER TO STANDARD DETAILS SHOWN ON J-002, J-004, AND J-006. UNDER FLOOR DUCT ROUTING IS FOR GUIDANCE ONLY.
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- FOR RECEPTACLE CIRCUIT ASSIGNMENTS, SEE PANEL SCHEDULE DB-E521
- TABULATION LIST POWER CIRCUIT NUMBERS FOR THE FANS ON THIS SHEET. COMBINE POWER TO MANY LOADS INCLUDING RECEPTACLES FROM SAME PANEL IN CONDUIT TOGETHER TO MINIMIZE CONDUIT RUNS, MAKE SURE THAT CONDUIT FILL MUST MEET THE LATEST NATIONAL ELECTRICAL CODE REQUIREMENT.
- SEE PANEL SCHEDULES ON DRAWINGS DB-E520 TO DB-E525 FOR COMPLETE PANEL LOADING.

MECH. EQUIP. TABULATIONS

EQUIP. ID	VOLT/PH	PNL. CKT.
EF-17	120/1	LA17-6
AHU-13	208/1	ELA25-2, 4
AHU-14	208/1	LA17-12, 14
SF-4	120/1	LA17-6
AHU-15	208/1	LA17-16, 18
SF-5	120/1	LA17-6
C/02D	115/1	LA17-24 (ROLLING GRILLE)

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

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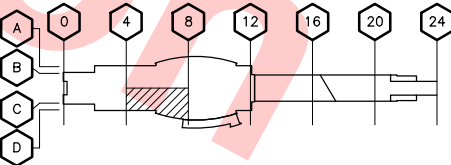
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



CONCOURSE LEVEL PLAN — POWER AND MISCELLANEOUS

SCALE: 1/8"=1'-0"
DB-E210

Jun 20, 2013 3:22pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E213X.dwg

DESIGNED BY G. LALWANI	12/31/14
DRAWN BY G. MARAVILLA	
CHECKED BY L. CHEN	
IN CHARGE R. BARLAAN	
DATE 20130710	

0	20130710				READINESS FOR CONSTRUCTION
REV	DATE	BY	SUB	APP	DESCRIPTION



Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

SUBMITTED

Lockwood, Andrews & Newnam, Inc.
A LEI A BALLY COMPANY

T-Y-LIN INTERNATIONAL

APPROVED

BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCOURSE LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 3 OF 5

CADD FILENAME C700-S-DB-E213X.dwg	
SIZE SCALE D 1/8"=1'-0"	
CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. E213X
	PAGE NO. 0873



KEY NOTE

- 1 DISC. SWITCH FOR ROLLING GRILLE

NOTES

- 1. COORDINATE EXACT LOCATION OF UNDER FLOOR DUCTS AT AUTOMATIC FARE COLLECTION EQUIPMENT. REFER TO STANDARD DETAILS SHOWN ON J-002, J-004, AND J-006. UNDER FLOOR DUCT ROUTING IS FOR GUIDANCE ONLY.
- 2. RUN CONDUITS IN FLOOR SLAB AND DETERMINE THE NUMBER OF CONDUITS REQUIRED PLUS ONE SPARE CONDUIT PER SYSTEMS REQUIREMENTS.
- 3. FOR RECEPTACLE CIRCUIT ASSIGNMENTS, SEE PANEL SCHEDULE DB-E521
- 4. TABULATION LIST POWER CIRCUIT NUMBERS FOR THE FANS ON THIS SHEET. COMBINE POWER TO MANY LOADS INCLUDING RECEPTACLES FROM SAME PANEL IN CONDUIT TOGETHER TO MINIMIZE CONDUIT RUNS, MAKE SURE THAT CONDUIT FILL MUST MEET THE LATEST NATIONAL ELECTRICAL CODE REQUIREMENT.
- 5. SEE PANEL SCHEDULES ON DRAWINGS DB-E520 TO DB-E525 FOR COMPLETE PANEL LOADING.

MECH. EQUIP. TABULATIONS

EQUIP. ID	VOLT/PH	PNL. CKT.
C/02B	460/3	L13-38,40,42(ROLLING GRILLE)
C/02C	115/1	LA16-26 (ROLLING GRILLE)
AHU-16	208/1	LA16-30, 32
AHU-17	208/1	LA16-34, 36
SF-6	120/1	LA16-28
AHU-18	208/1	LA16-38, 40
FACP	120/1	ELA25-4

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
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- AMEND AND RESUBMIT (A/R)

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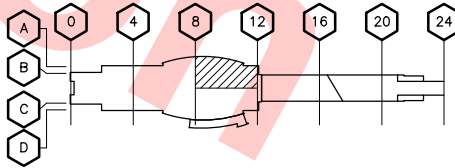
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



CONCOURSE LEVEL PLAN — POWER AND MISCELLANEOUS

SCALE: 1/8"=1'-0"
DB-E210

Jun 21, 2013 4:44pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E214X.dwg

DESIGNED BY G. LALWANI	
DRAWN BY G. MARAVILLA	
CHECKED BY L. CHEN	
IN CHARGE R. BARLAAN	
DATE 20130710	
DESCRIPTION REPLACED C700-DB-E312, REV. P	



Skanska
Shimmick
Herzog

Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture

Lockwood, Andrews
& Newnam, Inc.
A LEU A BALLY COMPANY

T-Y-LIN INTERNATIONAL

BART
SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCOURSE LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 4 OF 5

CADD FILENAME C700-S-DB-E214X.dwg	
SIZE SCALE D 1/8"=1'-0"	
CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. E214X
	PAGE NO. 0874



MATCH LINE
SEE DWG NO. DB-E214X

OF STATION

UNDERFLOOR
DUCT (NOTE 1)

FREE
AREA
C02

STATION AGENT'S BOOTH
SEE PLAN AND DETAIL
DB-E501 AND DB-E502

PAID AREA
C03

ELEC
RM #1
C06

STAIR
#3
C44

ESCALATOR
#5

POC ELEV
LOWER LOBBY
C06

COMM
ROOM
C07

EMCC27-1

EF23

EF22

L14

LA17-2

LA17-4

LA17

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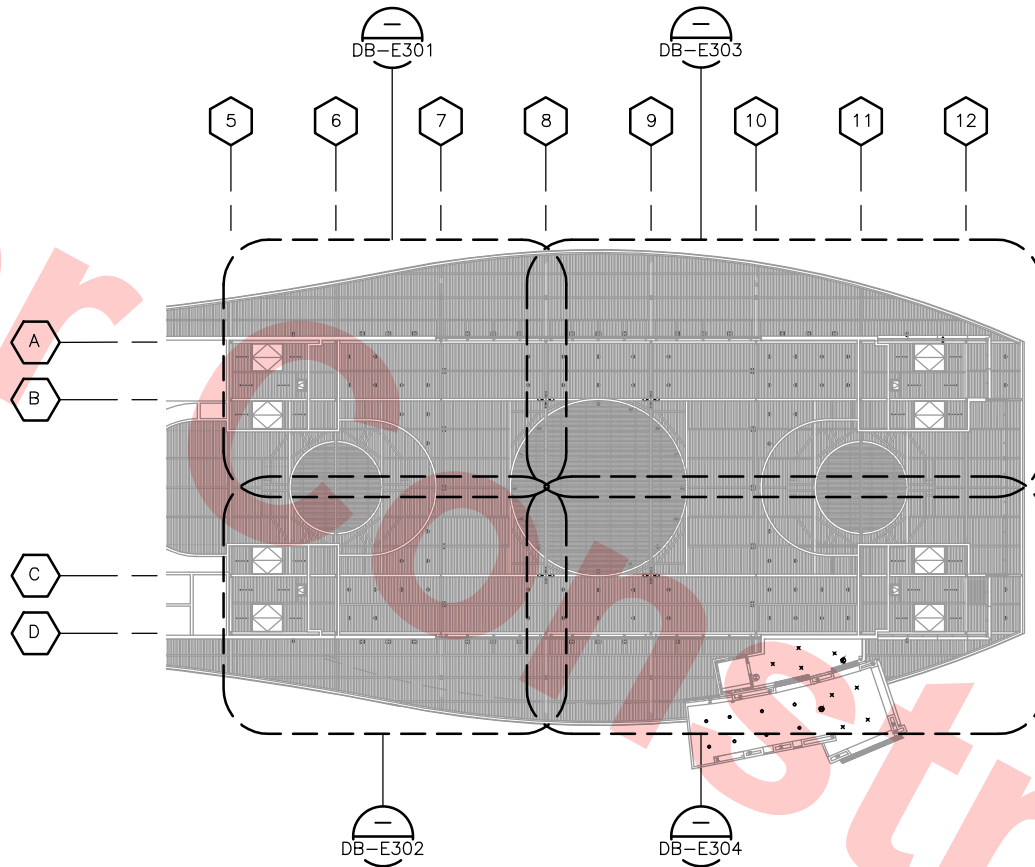
LA17-2

LA17-4

LA17

LA17-2

LA17-4



KEY PLAN — CONCOURSE LEVEL — HIGH CEILING — LIGHTING
SCALE: 1/32"=1'-0"

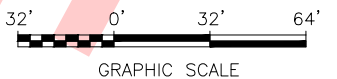
Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

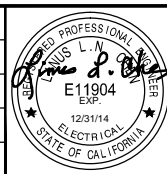
By: _____ Date: _____



Jun 20, 2013 3:22pm C:\GIS\Maravilla\Milpitas Station\Project\Drawings\Sheets\CT00-S-DB-E300.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



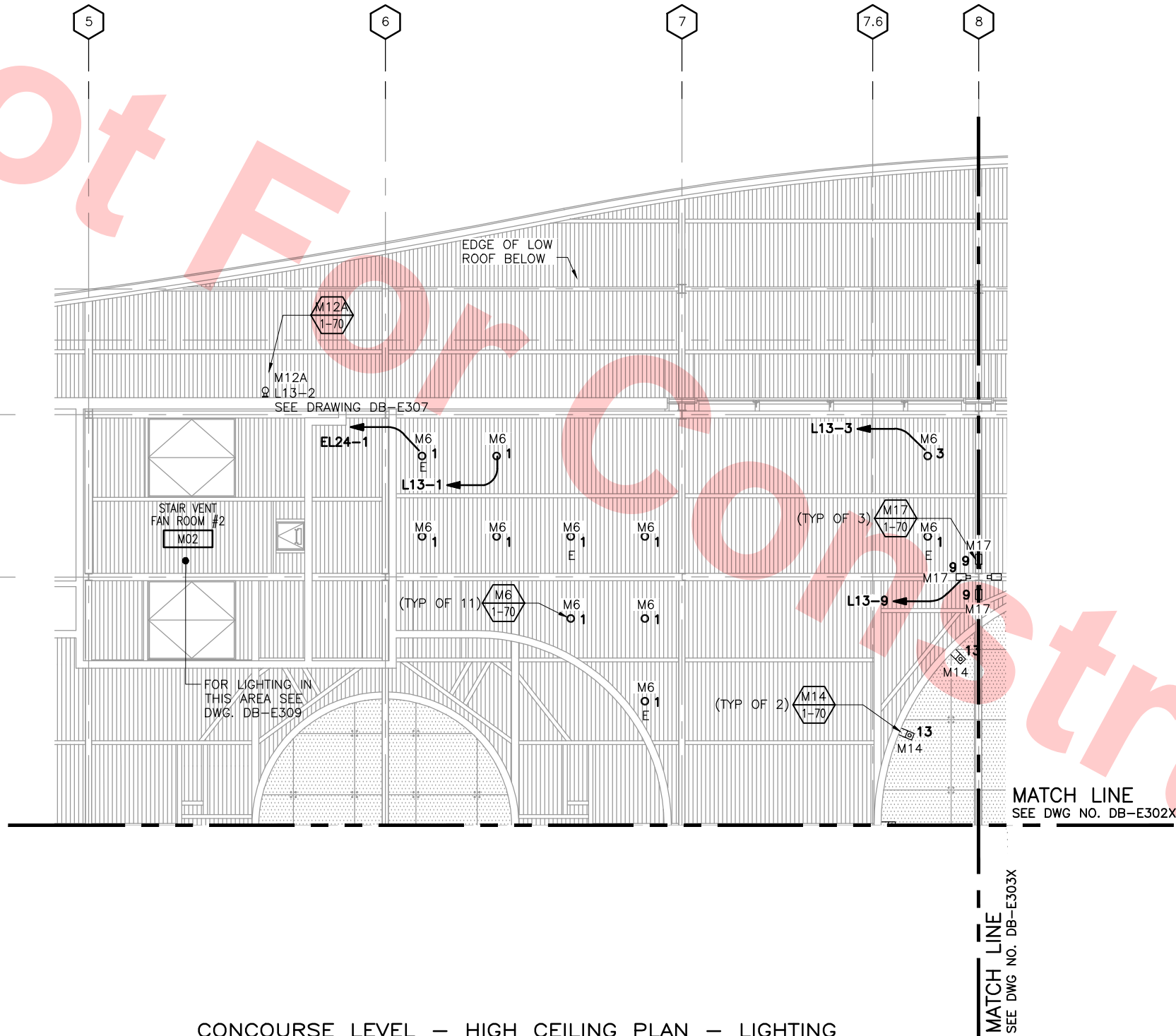
Submitted by
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2339

Approved by
Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture
Lookwood, Andrews & Newman, Inc.
T-Y-LIN INTERNATIONAL
A LEOPOLD & LOEB COMPANY



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
KEY PLAN
CONCOURSE LEVEL — HIGH CEILING
LIGHTING

CADD FILENAME C700-S-DB-E300.dwg	REV. 0
SIZE D	SCALE 1/32"=1'-0"
CONTRACT NO. C700	SHEET NO. E300
AREA CODE DB	PAGE NO. 0876



CONCOURSE LEVEL — HIGH CEILING PLAN — LIGHTING
SCALE: 1/8"=1'-0"

LEGEND

- LINEAR FLUORESCENT STRIP LIGHT
- 6" DIAMETER x 12" HIGH SURFACE MOUNTED METAL HALIDE CYLINDER
- M12 ROOF MOUNTED UPLIGHT TYPE M12, SEE LIGHTING DESIGN BASIS
- M12A 9" DIAMETER METAL HALIDE DIRECT/INDIRECT WALL SCONCE TYPE M12A, SEE LIGHTING DESIGN BASIS
- M13 18" WIDE METAL HALIDE UPLIGHT TYPE 13, CANTILEVERED 5" FROM BOTTOM CHORD OF TRUSS, SEE LIGHTING DESIGN BASIS
- M14 7.5" WIDE METAL HALIDE ACCENT LIGHT TYPE M14, CANTILEVERED 6" FROM FACE OF WALL, SEE LIGHTING DESIGN BASIS
- M17 4.5" DIAMETER METAL HALIDE UPLIGHT TYPE M17, MOUNTED TO COLUMN @ 20'-0" AFF TO BOTTOM OF FIXTURE, SEE LIGHTING DESIGN BASIS

TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
EL24-1	M6	4
L13-1	M6	6
L13-2	M12A	1
L13-3	M6	1
L13-9	M17	3
L14-13	M14	2

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

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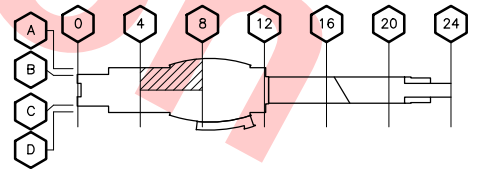
Contract No.: DB11002F

By: _____ Date: _____



GRAPHIC SCALE

KEY PLAN



Jun 20, 2013 3:22pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E301X.dwg

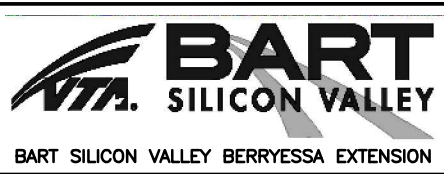
REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E221

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2339
SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCOURSE LEVEL — HIGH CEILING PLAN
LIGHTING
SHEET 1 OF 4

CADD FILENAME
C700-S-DB-E301X.dwg
SIZE SCALE
D 1/8"=1'-0"
CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. DB E301X PAGE NO. 0877



Jun 20, 2013 3:22pm C:\Giles Maravilla\Milpitas Station\Project\Drawings\Sheet\CT00-S-DB-E302X.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E222

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska Shimmick Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lookwood, Andrews & Newman, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCOURSE LEVEL - HIGH CEILING PLAN
LIGHTING
SHEET 2 OF 4

CADD FILENAME C700-S-DB-E302.dwg	CONTRACT NO. C700	REV. 0
SIZE SCALE D 1/8"=1'-0"	AREA CODE DB	SHEET NO. E302X
		PAGE NO. 0878

KEY NOTES

145 SMOKE CONTROL FAN AND DUCT

LEGEND

- LINEAR FLUORESCENT STRIP LIGHT
- 6" DIAMETER x 12" HIGH SURFACE MOUNTED METAL HALIDE CYLINDER
- M12 ROOF MOUNTED UPLIGHT TYPE M12, SEE LIGHTING DESIGN BASIS
- M12A 9" DIAMETER METAL HALIDE DIRECT/INDIRECT WALL SCONCE TYPE M12A, SEE LIGHTING DESIGN BASIS
- M13 18" WIDE METAL HALIDE UPLIGHT TYPE 13, CANTILEVERED 5" FROM BOTTOM CHORD OF TRUSS, SEE LIGHTING DESIGN BASIS
- M14 7.5" WIDE METAL HALIDE ACCENT LIGHT TYPE M14, CANTILEVERED 6" FROM FACE OF WALL, SEE LIGHTING DESIGN BASIS
- M17 4.5" DIAMETER METAL HALIDE UPLIGHT TYPE M17, MOUNTED TO COLUMN @ 20'-0" AFF TO BOTTOM OF FIXTURE, SEE LIGHTING DESIGN BASIS

TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
EL24-3	M6	4
L14-1	M6	6
L14-2	M12A	1
L14-3	M6	1
L14-9	M17	3
L14-13	M14	3

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

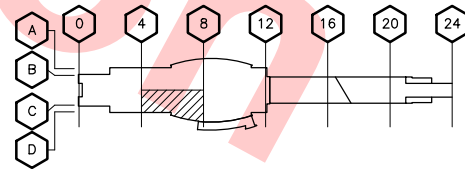
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



CONCOURSE LEVEL - HIGH CEILING PLAN - LIGHTING
SCALE: 1/8"=1'-0"

MATCH LINE
SEE DWG NO. DB-E301X

MATCH LINE
SEE DWG NO. DB-E304X



LEGEND

- LINEAR FLUORESCENT STRIP LIGHT
- 6" DIAMETER x 12" HIGH SURFACE MOUNTED METAL HALIDE CYLINDER
- M12 ROOF MOUNTED UPLIGHT TYPE M12, SEE LIGHTING DESIGN BASIS
- M12A 9" DIAMETER METAL HALIDE DIRECT/INDIRECT WALL SCONCE TYPE M12A, SEE LIGHTING DESIGN BASIS
- M13 18" WIDE METAL HALIDE UPLIGHT TYPE 13, CANTILEVERED 5" FROM BOTTOM CHORD OF TRUSS, SEE LIGHTING DESIGN BASIS
- M14 7.5" WIDE METAL HALIDE ACCENT LIGHT TYPE M14, CANTILEVERED 6" FROM FACE OF WALL, SEE LIGHTING DESIGN BASIS
- M17 4.5" DIAMETER METAL HALIDE UPLIGHT TYPE M17, MOUNTED TO COLUMN @ 20'-0" AFF TO BOTTOM OF FIXTURE, SEE LIGHTING DESIGN BASIS

TABULATIONS

PANEL CIRCUIT	FIXTURE TYPE	QUANTITIES
EL24-1	M6	6
L13-2	M12A	1
L13-3	M6	6
L13-5	M6	9
L13-9	M17	5
L14-13	M14	6

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

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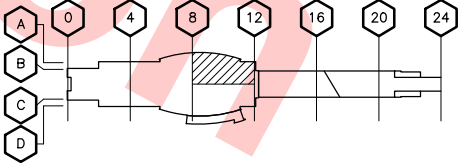
Contract No.: DB11002F

By: Date:

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GRAPHIC SCALE

KEY PLAN



CONCOURSE LEVEL — HIGH CEILING PLAN — LIGHTING
SCALE: 1/8"=1'-0"

Jun 20, 2013 - 3:22pm G:\Giles Maravilla\Milpitas Station\Project\Issued Sheets\C700-S-DB-E303.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700 DB-E223 REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2339
SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCOURSE LEVEL — HIGH CEILING PLAN
LIGHTING
SHEET 3 OF 4

CADD FILENAME
C700-S-DB-E303.dwg
SIZE SCALE
D 1/8"=1'-0"
CONTRACT NO.
C700
AREA CODE SHEET NO.
DB E303X
REV. 0
PAGE NO.
0879



KEY NOTES

145 SMOKE CONTROL FAN AND DUCT

LEGEND

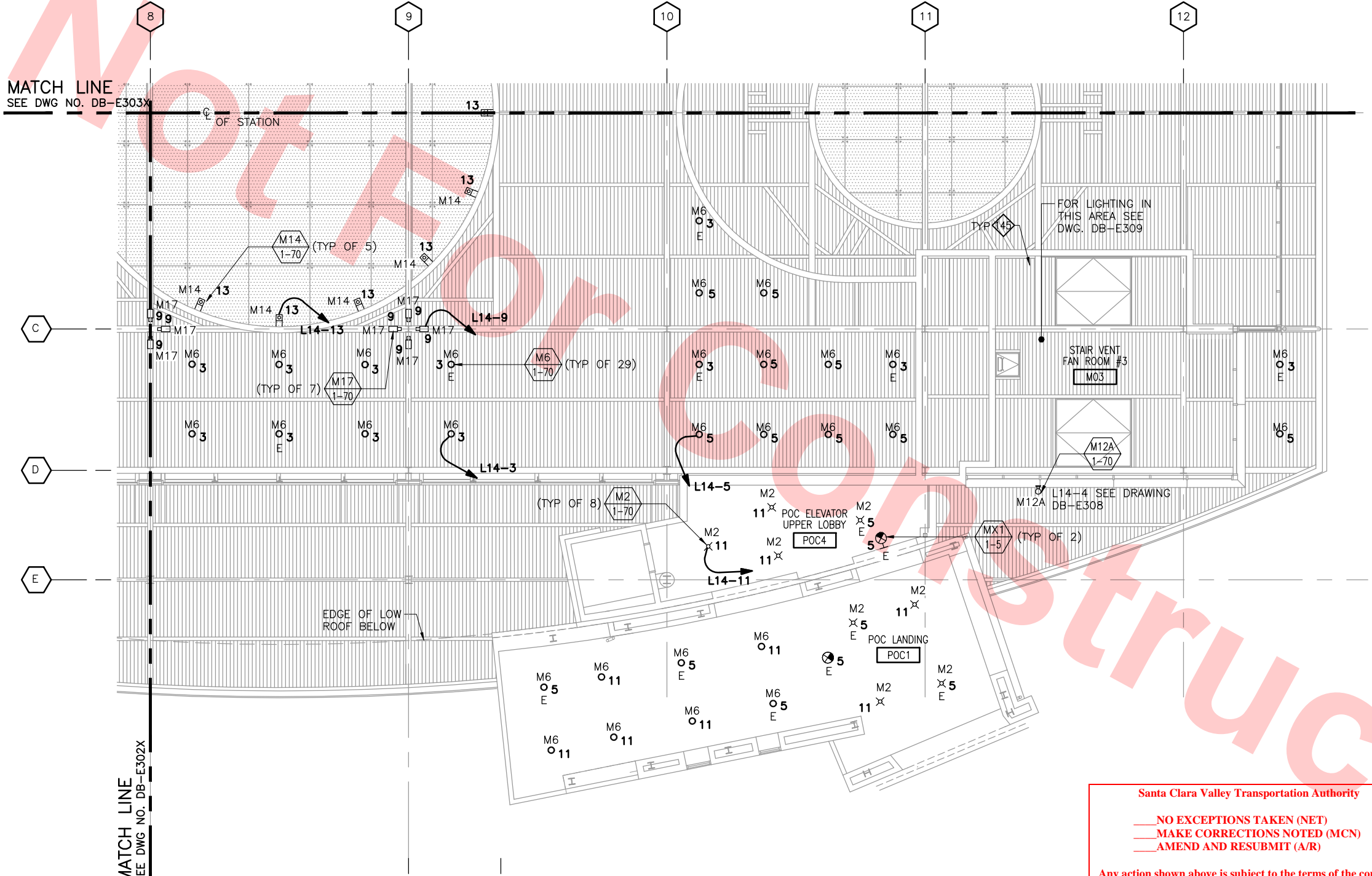
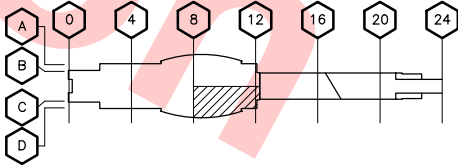
- LINEAR FLUORESCENT STRIP LIGHT
- 6" RECESSED METAL HALIDE
- 6" DIAMETER x 12" HIGH SURFACE MOUNTED METAL HALIDE CYLINDER
- M12 ROOF MOUNTED UPLIGHT TYPE M12, SEE LIGHTING DESIGN BASIS
- M12A 9" DIAMETER METAL HALIDE DIRECT/INDIRECT WALL SCONCE TYPE M12A, SEE LIGHTING DESIGN BASIS
- M13 18" WIDE METAL HALIDE UPLIGHT TYPE 13, CANTILEVERED 5" FROM BOTTOM CHORD OF TRUSS, SEE LIGHTING DESIGN BASIS
- M14 7.5" WIDE METAL HALIDE ACCENT LIGHT TYPE M14, CANTILEVERED 6" FROM FACE OF WALL, SEE LIGHTING DESIGN BASIS
- M17 4.5" DIAMETER METAL HALIDE UPLIGHT TYPE M17, MOUNTED TO COLUMN @ 20'-0" AFF TO BOTTOM OF FIXTURE, SEE LIGHTING DESIGN BASIS
- EXIT LIGHT

TABULATIONS

PANEL	CIRCUIT	FIXTURE TYPE	QUANTITIES
EL24-3		M6	6
EL24-5		MX1	2
		M2	3
		M6	3
L14-2		M12A	1
L14-3		M6	6
L14-5		M6	9
L14-9		M17	7
L14-11		M2	5
		M6	5
L14-13		M14	5



KEY PLAN



CONCOURSE LEVEL - HIGH CEILING PLAN - LIGHTING
SCALE: 1/8"=1'-0"

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

Jun 21, 2013 - 4:44pm C:\Giles Maravilla\Milpitas Station\Project\Drawings\Sheets\C700-S-DB-E304.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E224

DESIGNED BY G. LALWANI	
DRAWN BY G. MARAVILLA	
CHECKED BY L. CHEN	
IN CHARGE R. BARLAAN	
DATE 20130710	



Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

SUBMITTED

Lookwood, Andrews & Newman, Inc.
A LEOP A BALLY COMPANY

T-Y-LIN INTERNATIONAL

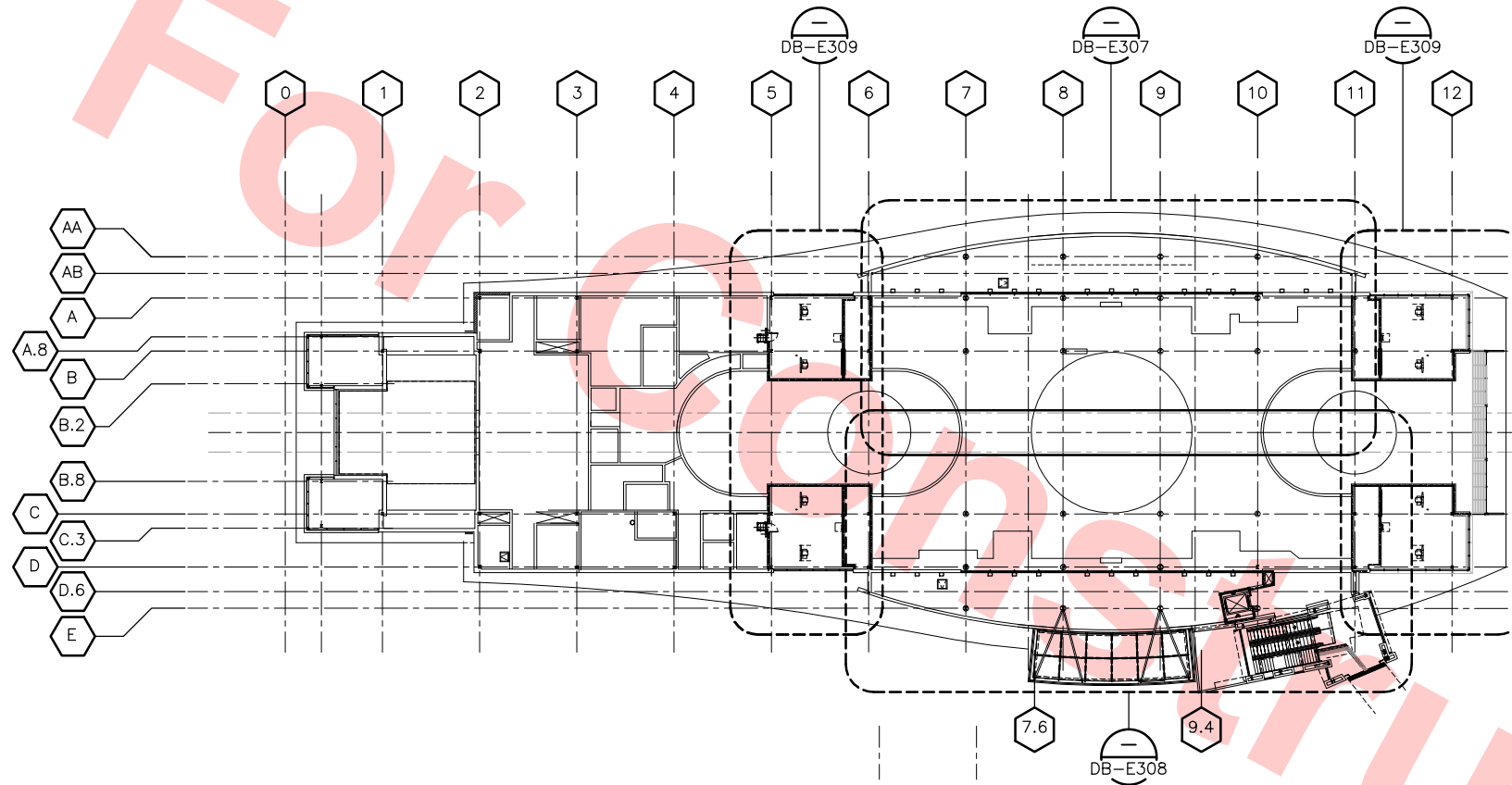
APPROVED

BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCOURSE LEVEL - HIGH CEILING PLAN
LIGHTING
SHEET 4 OF 4

CADD FILENAME C700-S-DB-E304.dwg	
SIZE SCALE D 1/8"=1'-0"	
CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. E304X
	PAGE NO. 0880



KEY PLAN LOWER ROOF LEVEL — LIGHTING
SCALE: 1/32"=1'-0"

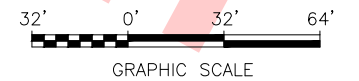
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____



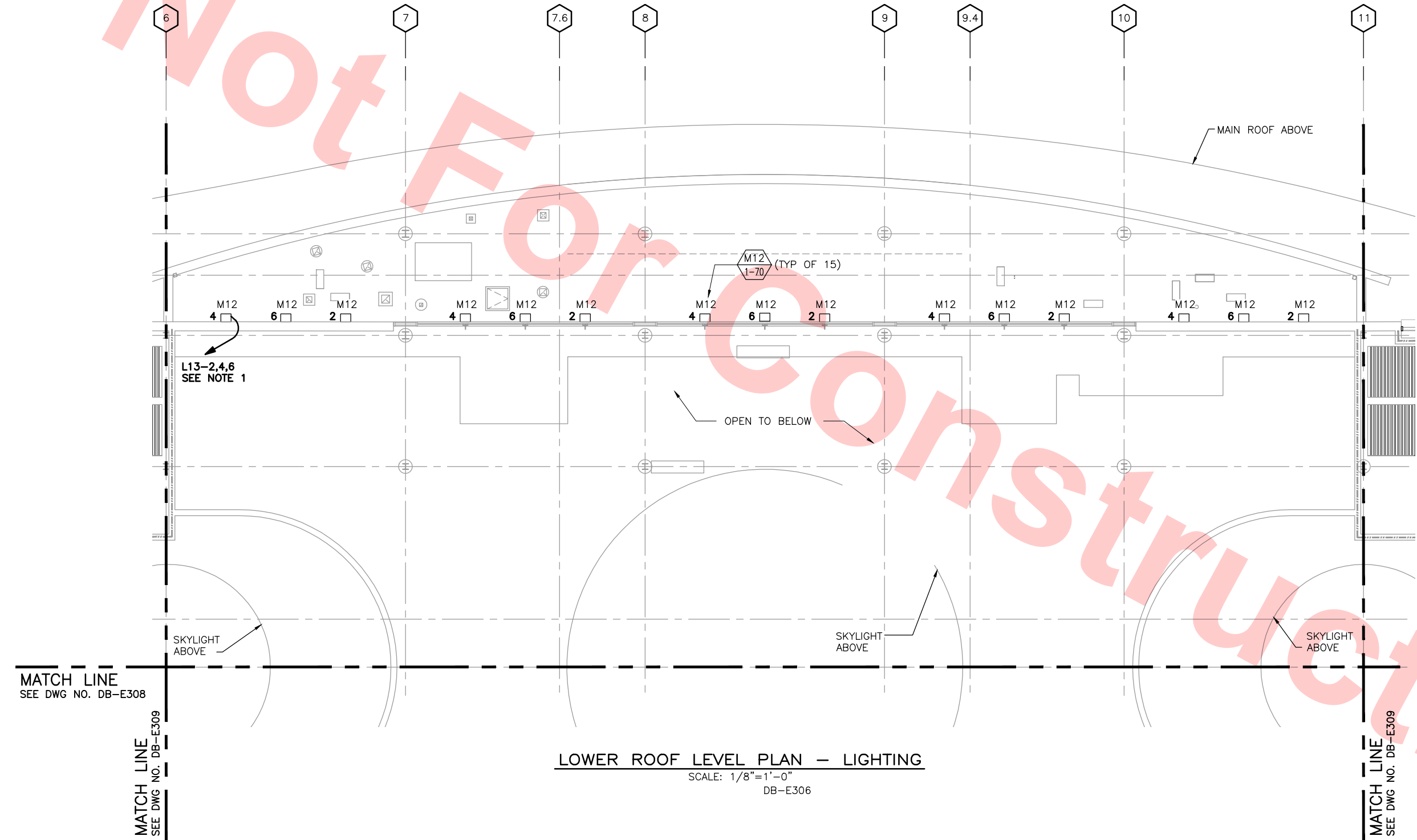
					DESIGNED BY G. LALWANI		Skanska Shimmick Herzog 1436 California Circle Milpitas, California 95035 A Joint Venture				T-Y-LIN INTERNATIONAL APPROVED <i>Ry. Apthorn</i>		LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION KEY PLAN LOWER ROOF LEVEL LIGHTING		CADD FILENAME C700-S-DB-E306.dwg SIZE SCALE D 1/32"=1'-0" CONTRACT NO. C700 REV. 0 AREA CODE SHEET NO. PAGE NO. DB E306 0881			
0	20130710				DRAWN BY G. MARAVILLA													
					CHECKED BY L. CHEN													
					IN CHARGE R. BARLAAN		SUBMITTED <i>R. Barlaan</i>		APPROVED <i>Ry. Apthorn</i>		BART SILICON VALLEY BERRYESSA EXTENSION							
REV	DATE	BY	SUB	APP	DESCRIPTION	DATE	20130710											
					READINESS FOR CONSTRUCTION													

Jun 20, 2013 3:19pm C:\Giles Maravilla\Milpitas Station\Project\Drawings\Sheets\C700-S-DB-E306.dwg



NOTE

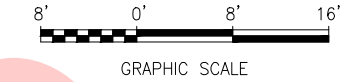
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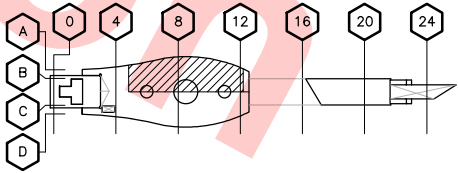
MATCH LINE
SEE DWG NO. DB-E308

MATCH LINE
SEE DWG NO. DB-E309

LOWER ROOF LEVEL PLAN – LIGHTING
SCALE: 1/8"=1'-0"
DB-E306



KEY PLAN



Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

Jun 20, 2013 3:39pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E307.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog

Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Milpitas, California 95035
Phone: (510) 855-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture

Lockwood, Andrews
& Newnam, Inc.
A LEI A BALLY COMPANY

T-Y-LIN INTERNATIONAL



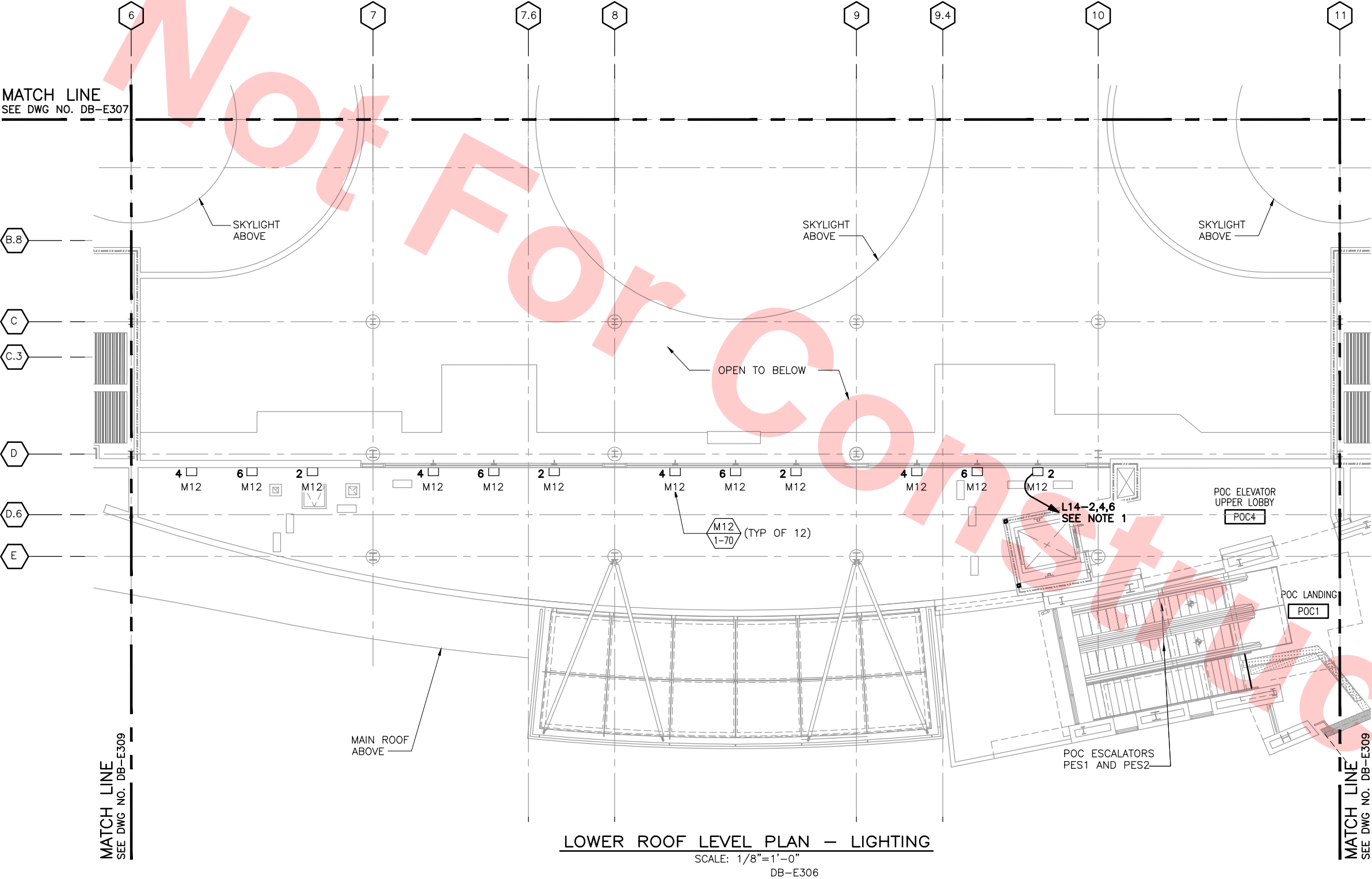
LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
LOWER ROOF LEVEL PLAN
LIGHTING
SHEET 1 OF 3

CADD FILENAME C700-S-DB-E307.dwg	REV. 0
SIZE D	SCALE 1/8"=1'-0"
CONTRACT NO. C700	SHEET NO. E307
AREA CODE DB	PAGE NO. 0882



NOTE

1. ALL LIGHT FIXTURES M12 ON THIS DRAWING ARE POWERED BY POWER CIRCUIT L14-2,4,6 IN PARARELL CONNECTION.



LOWER ROOF LEVEL PLAN – LIGHTING
SCALE: 1/8"=1'-0"
DB-E306

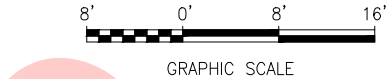
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

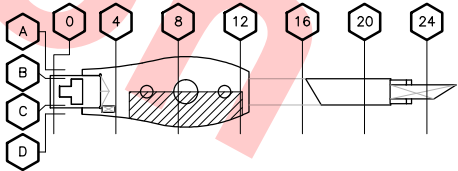
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____



KEY PLAN



Jun 20, 2013 3:40pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E308.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog

Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Milpitas, California 95035
Phone: (510) 855-2537 Fax: (510) 535-2339

SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture

Lockwood, Andrews
& Newnam, Inc.
A LEI A BALLY COMPANY

T-Y-LIN INTERNATIONAL

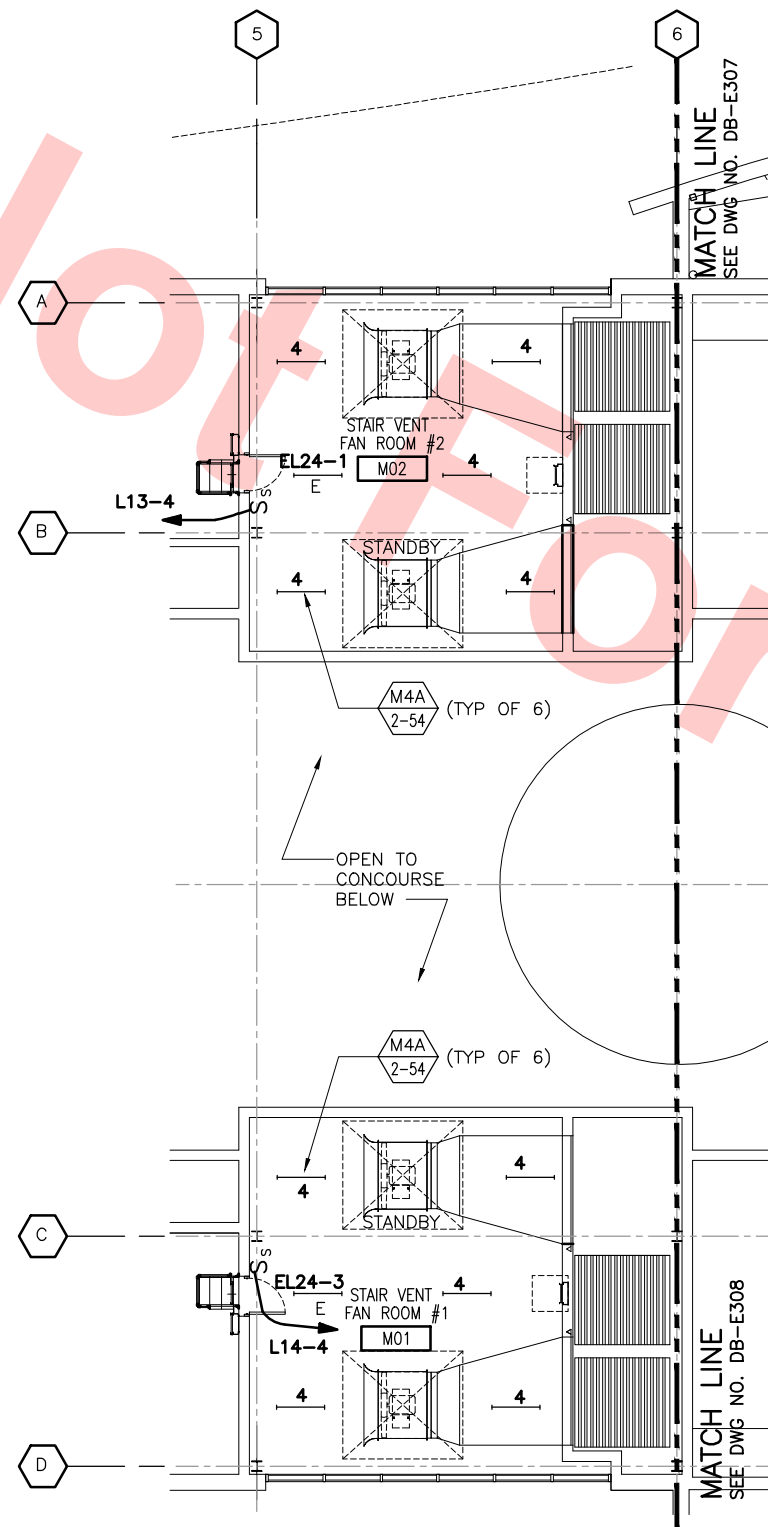
APPROVED

BART
SILICON VALLEY

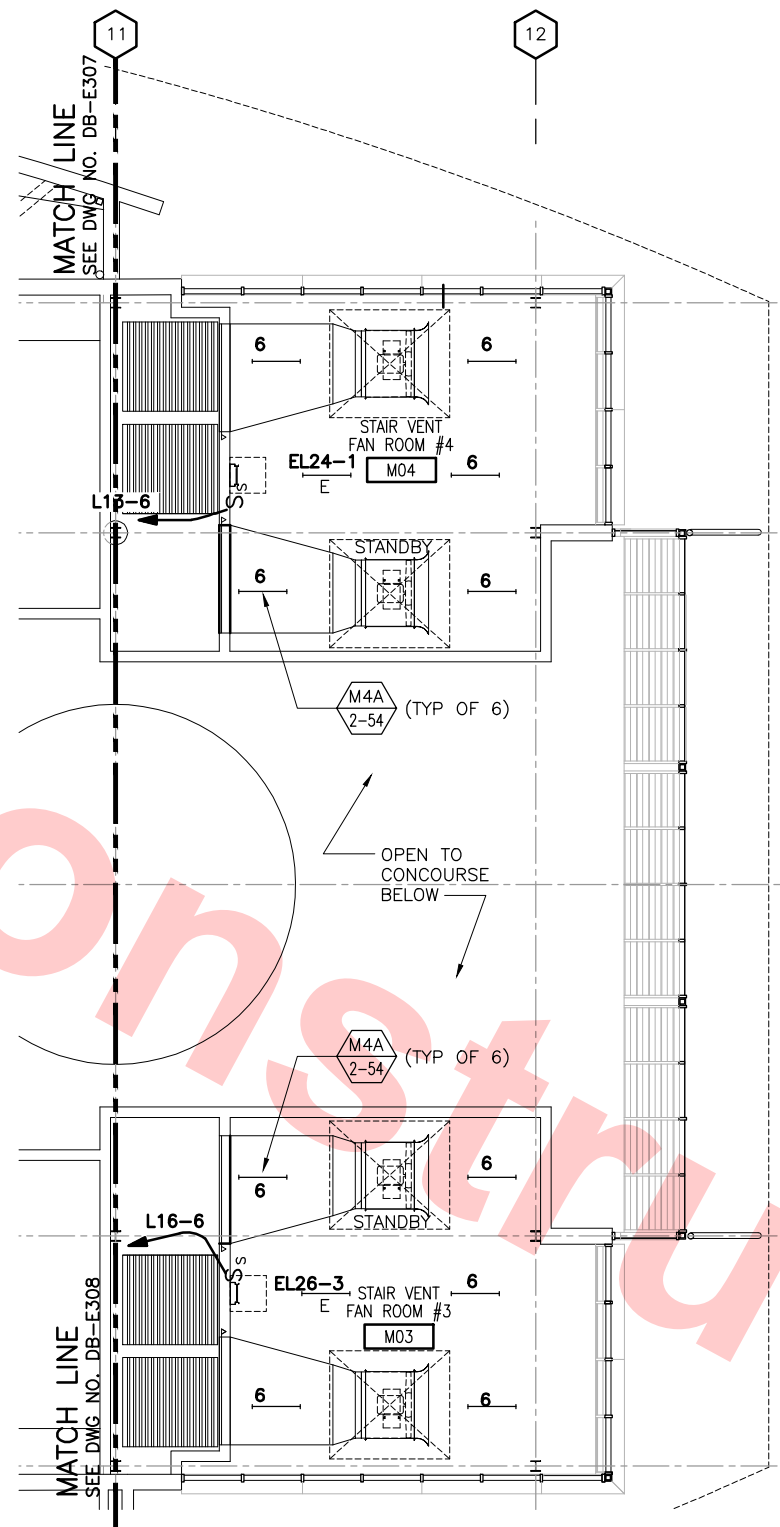
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
LOWER ROOF LEVEL PLAN
LIGHTING
SHEET 2 OF 3

CADD FILENAME C700-S-DB-E308.dwg	REV. 0
SIZE D	SCALE 1/8"=1'-0"
CONTRACT NO. C700	SHEET NO. E308
AREA CODE DB	PAGE NO. 0883



LOWER ROOF LEVEL PLAN — LIGHTING
SCALE: 1/8"=1'-0"
DB-E306



KEY NOTES

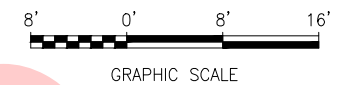
Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

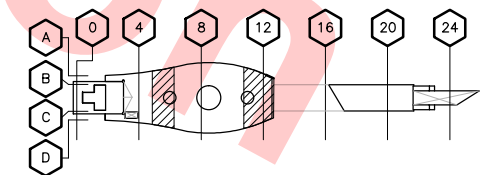
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____



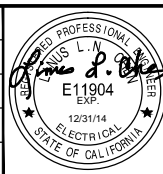
KEY PLAN



Jun 20, 2013 3:40pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E309.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



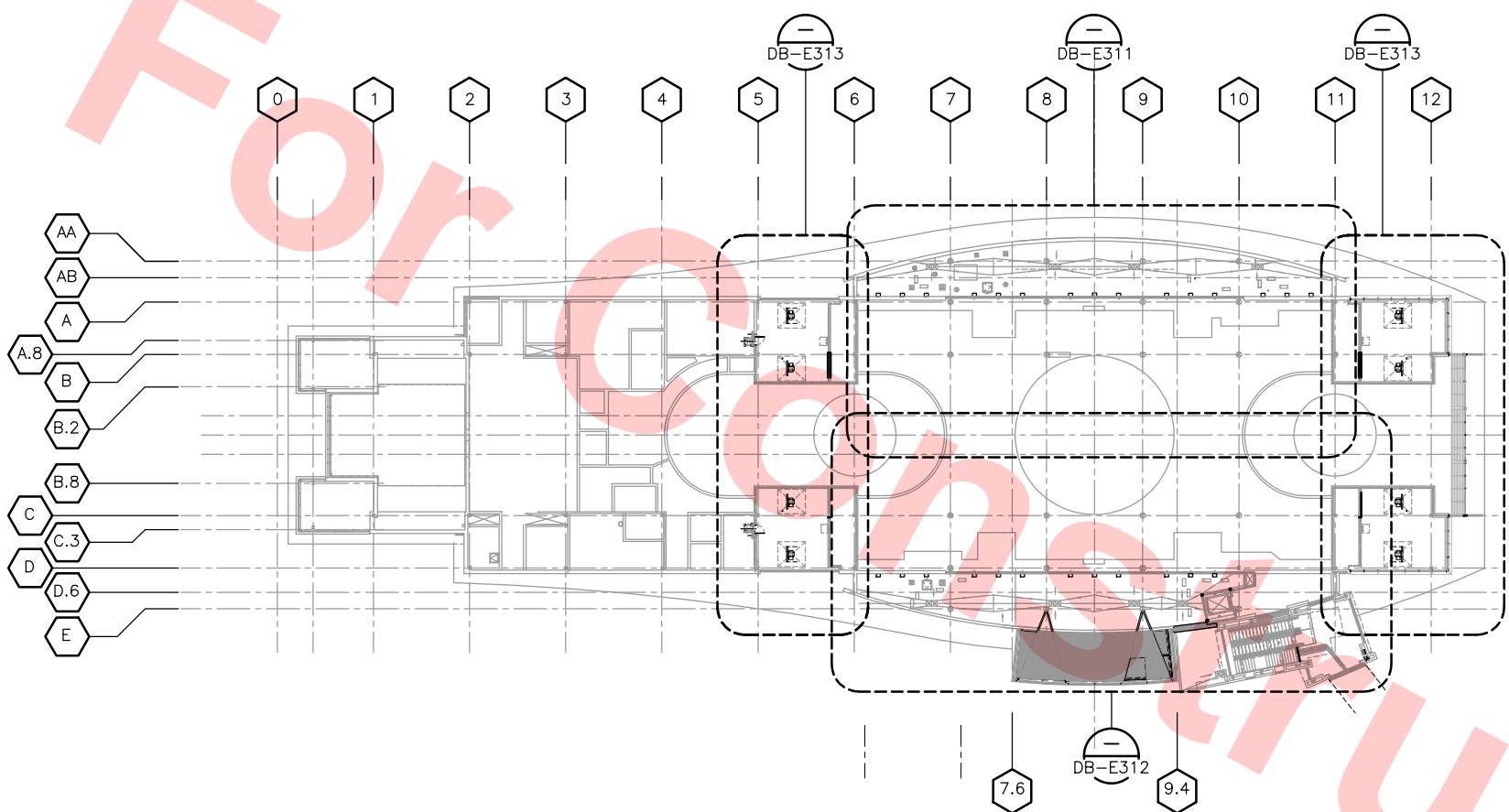
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED
Ray Adolph



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
LOWER ROOF LEVEL PLAN
LIGHTING
SHEET 3 OF 3

CADD FILENAME C700-S-DB-E309.dwg	REV. 0
SIZE D	SCALE 1/8"=1'-0"
CONTRACT NO. C700	SHEET NO. E309
AREA CODE DB	PAGE NO. 0884



Santa Clara Valley Transportation Authority

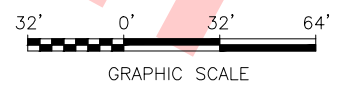
___ NO EXCEPTIONS TAKEN (NET)
___ MAKE CORRECTIONS NOTED (MCN)
___ AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

KEY PLAN LOWER ROOF LEVEL — POWER AND MISCELLANEOUS
SCALE: 1/32"=1'-0"



					DESIGNED BY G. LALWANI		Skanska Shimmick Herzog 1436 California Circle Milpitas, California 95035 A Joint Venture				LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION KEY PLAN LOWER ROOF LEVEL POWER AND MISCELLANEOUS		CADD FILENAME C700-S-DB-E310.dwg SIZE SCALE D 1/32"=1'-0" CONTRACT NO. C700 REV. 0 AREA CODE SHEET NO. PAGE NO. DB E310 0885		
0	20130710				DRAWN BY G. MARAVILLA										
					CHECKED BY L. CHEN										
					IN CHARGE R. BARLAAN										
REV	DATE	BY	SUB	APP	DESCRIPTION	DATE	SUBMITTED	APPROVED							
					20130710										

Jun 20, 2013 3:40pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E310.dwg



KEY NOTES

MECH. EQUIP. TABULATIONS

EQUIP. ID	VOLT/PH	PNL. CKT.
EF-18	120/1	.
EF-19	120/1	.
EF-20	120/1	.
EF-21	120/1	.
ACU-2	208/1	.
ACU-4	208/1	.
ACU-16	208/1	.
ACU-17	208/1	.
ACU-6	208/1	.
ACU-8	208/1	.
ACU-18	208/1	.

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

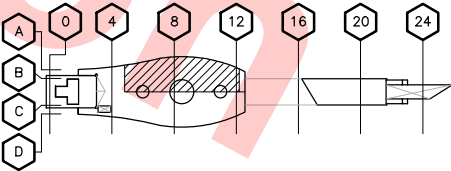
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



MATCH LINE
SEE DWG NO. DB-E312

MATCH LINE
SEE DWG NO. DB-E313

LOWER ROOF LEVEL PLAN — POWER AND MISCELLANEOUS

SCALE: 1/8"=1'-0"
DB-E310

MATCH LINE
SEE DWG NO. DB-E313

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



SUBMITTED

APPROVED

Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

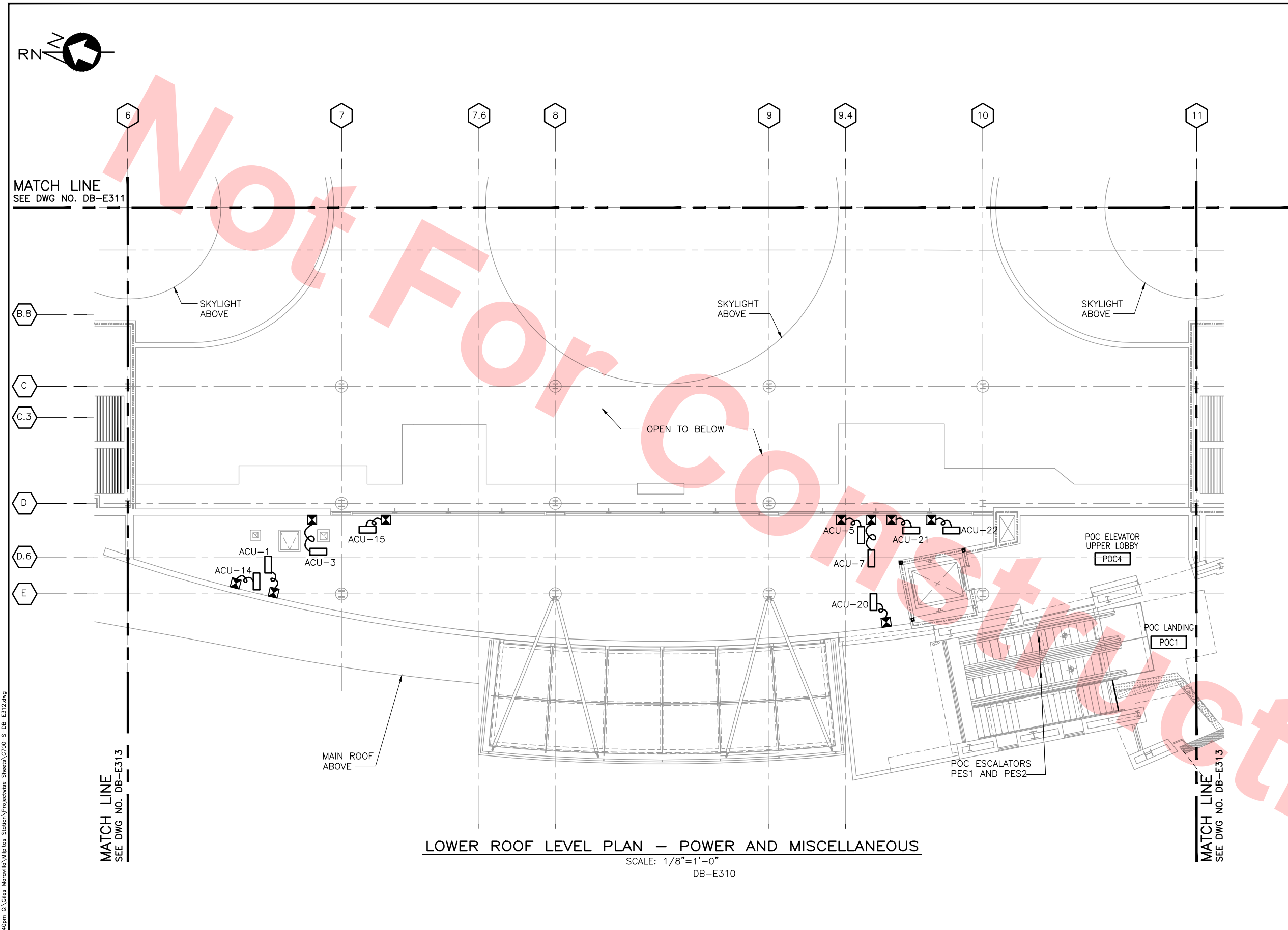
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 855-2537 Fax: (510) 535-2339

Lockwood, Andrews
& Newnam, Inc.
A LEU A BULL COMPANY
T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
LOWER ROOF LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 1 OF 3

CADD FILENAME
C700-S-DB-E311.dwg
SIZE SCALE
D 1/8"=1'-0"
CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. DB E311 PAGE NO. 0886



MATCH LINE
SEE DWG NO. DB-E311

MATCH LINE
SEE DWG NO. DB-E313

LOWER ROOF LEVEL PLAN — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-E310

KEY NOTES

MECH. EQUIP. TABULATIONS

EQUIP. ID	VOLT/PH	PNL. CKT.
ACU-1	208/1	.
ACU-3	208/1	.
ACU-14	208/1	.
ACU-15	208/1	.
ACU-5	208/1	.
ACU-7	208/1	.
ACU-20	208/1	.
ACU-21	208/1	.
ACU-22	208/1	.

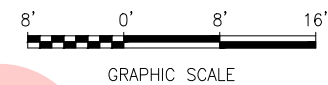
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

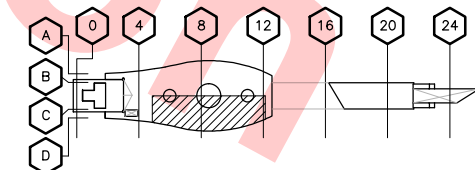
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

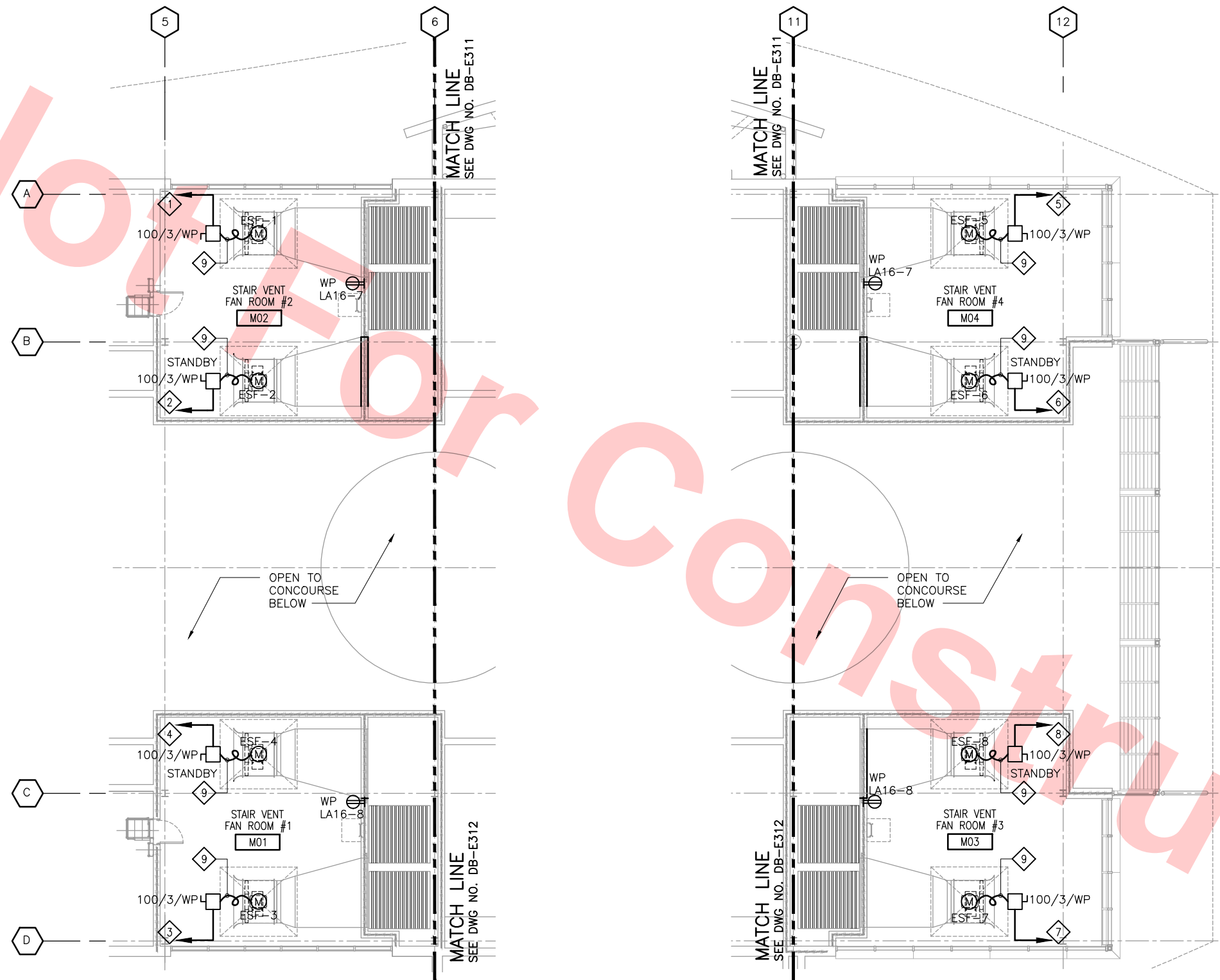


KEY PLAN



Jun 20, 2013 3:40pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E312.dwg

<div>DESIGNED BY G. LALWANI DRAWN BY G. MARAVILLA CHECKED BY L. CHEN IN CHARGE R. BARLAAN DATE 20130710</div>					<div>REGISTERED PROFESSIONAL ELECTRICAL E11904 EXP. 12/31/14 STATE OF CALIFORNIA</div>	<div>Skanska Shimmick Herzog 1436 California Circle Milpitas, California 95035 A Joint Venture Anil Verma Associates, Inc. 1970 Broadway, Suite 505 Oakland, CA 94612 Phone: (510) 455-2537 Fax: (510) 535-2339</div>	<div>Lockwood, Andrews & Newnam, Inc. A LEU A BALLY COMPANY T-Y-LIN INTERNATIONAL APPROVED Ray Adolph</div>	<div>BART VTA SILICON VALLEY BART SILICON VALLEY BERRYESSA EXTENSION</div>	<div>LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION LOWER ROOF LEVEL PLAN POWER AND MISCELLANEOUS SHEET 2 OF 3</div>	<div>CADD FILENAME C700-S-DB-E312.dwg SIZE SCALE D 1/8"=1'-0" CONTRACT NO. C700 AREA CODE DB SHEET NO. E312 PAGE NO. 0887</div>
<div>0 20130710 READINESS FOR CONSTRUCTION</div>										



LOWER ROOF LEVEL PLAN — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-E310

KEY NOTES

- 1 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-2", CIRCUIT EMCC2729
- 2 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-2", CIRCUIT EMCC27210
- 3 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-1", CIRCUIT EMCC2719
- 4 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-1", CIRCUIT EMCC27110
- 5 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-2", CIRCUIT EMCC27211
- 6 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-2", CIRCUIT EMCC27212
- 7 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-1", CIRCUIT EMCC27111
- 8 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-1", CIRCUIT EMCC27112
- 9 PROVIDE WEATHERPROOF FLEXIBLE CONDUIT FROM 100A, 3P NON FUSIBLE DISC. SWITCH TO FAN MOTOR.

NOTE

1. FOR EXACT LOCATION OF EMERGENCY EXHAUST FANS, SEE MECHANICAL DRAWINGS DB-M323.

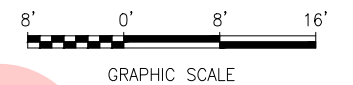
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

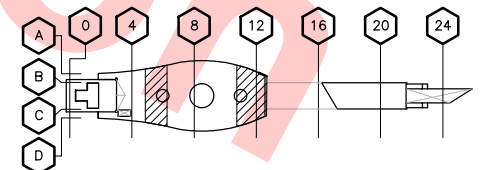
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: **DB11002F**

By: _____ Date: _____



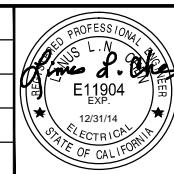
KEY PLAN



Jun 20, 2013 3:40pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E313.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



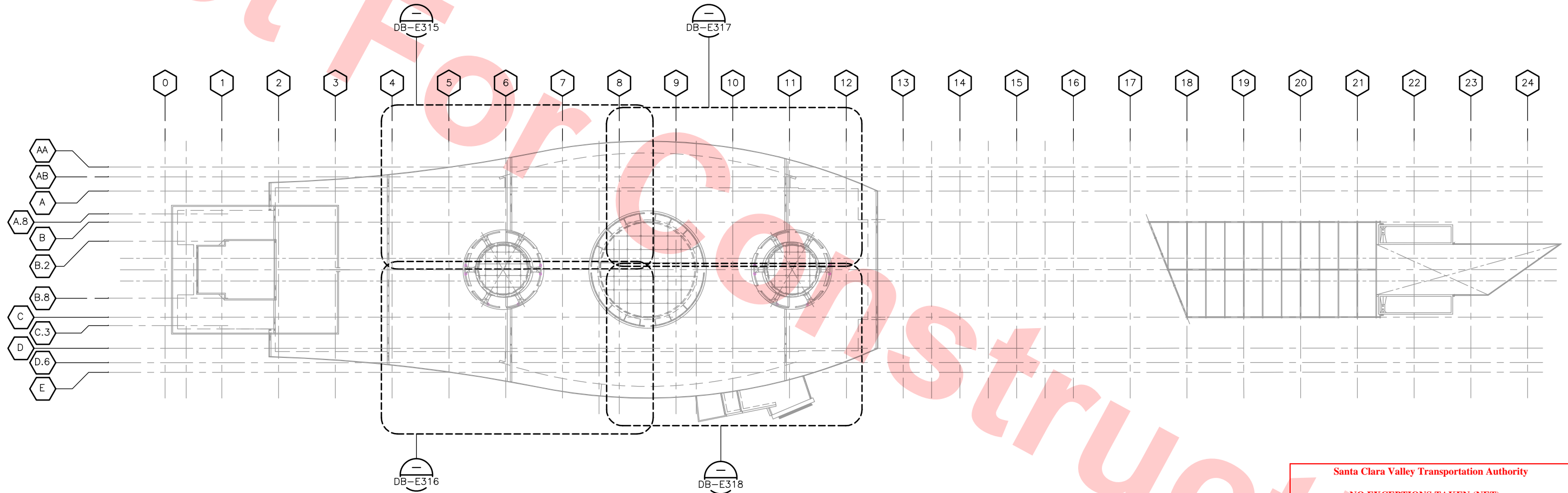
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Milpitas, California 95035
A Joint Venture
SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
LOWER ROOF LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 3 OF 3

CADD FILENAME
C700-S-DB-E313.dwg
SIZE SCALE
D 1/8"=1'-0"
CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. DB E313 PAGE NO. 0888



KEY PLAN ROOF LEVEL — POWER AND MISCELLANEOUS
SCALE: 1/32"=1'-0"

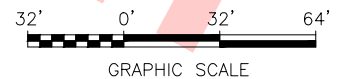
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

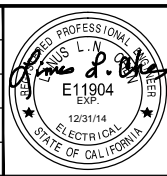
By: _____ Date: _____



Jun 20, 2013 3:41pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E314.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

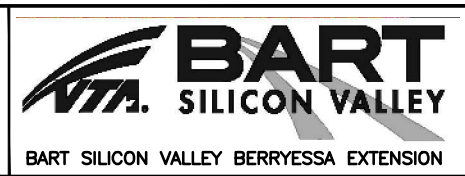
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Lockwood, Andrews & Newnam, Inc.
A LEU A BALLY COMPANY

T-Y-LIN INTERNATIONAL

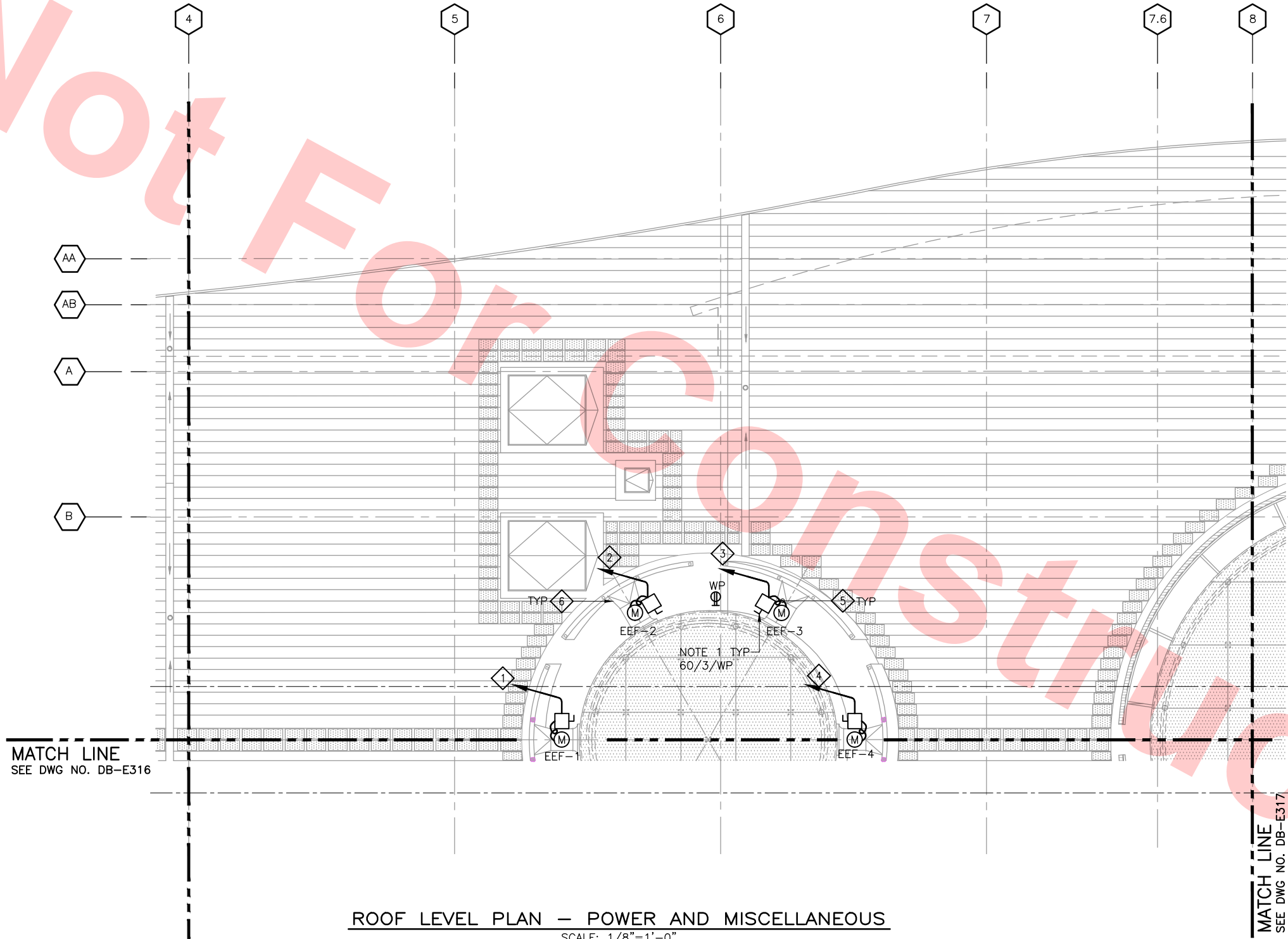
SUBMITTED *[Signature]*

APPROVED *[Signature]*



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
KEY PLAN
ROOF LEVEL
POWER AND MISCELLANEOUS

CADD FILENAME C700-S-DB-E314.dwg	SIZE D	SCALE 1/32"=1'-0"	CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. E314	PAGE NO. 0889		



ROOF LEVEL PLAN — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-E314

KEY NOTES

- 1 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-2", CIRCUIT EMCC2723
- 2 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-2", CIRCUIT EMCC2724
- 3 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-2", CIRCUIT EMCC2725
- 4 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-2", CIRCUIT EMCC2726
- 5 PROVIDE WEATHERPROOF FLEXIBLE CONDUIT FROM 150A, 3P NON-FUSIBLE DISC. SWITCH TO FAN MOTOR.
- 6 SKYLIGHT SMOKE EVACUATION FAN

NOTE

1. ALL ELECTRICAL EQUIPMENT ON ROOF SHALL BE NEMA 4, WEATHERPROOF ENCLOSURE.

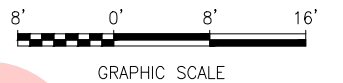
Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

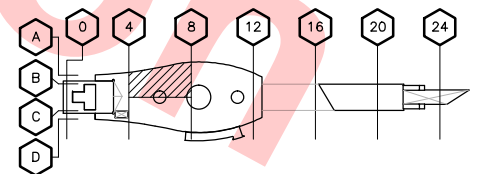
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____



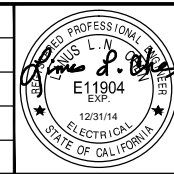
KEY ROOF PLAN



Jun 20, 2013 3:41pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E315.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Milpitas, California 95035
Phone: (510) 855-2537 Fax: (510) 535-2339
SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED

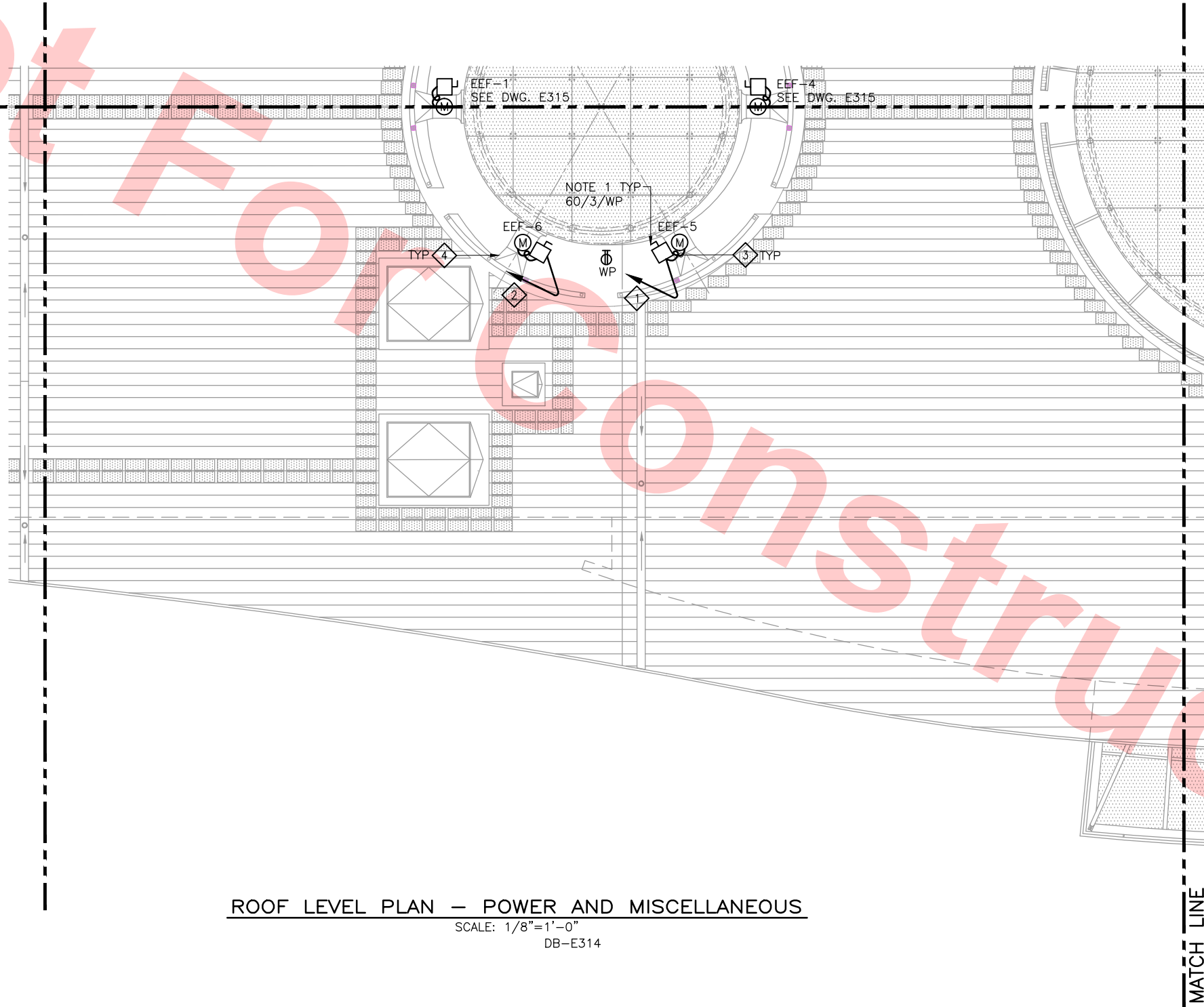


LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
ROOF LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 1 OF 4

CADD FILENAME
C700-S-DB-E315.dwg
SIZE SCALE
D 1/8"=1'-0"
CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. DB E315 PAGE NO. 0890



MATCH LINE
SEE DWG. NO. DB-E315



ROOF LEVEL PLAN — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-E314

KEY NOTES

- 1 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-2", CIRCUIT EMCC2727
- 2 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-2", CIRCUIT EMCC2728
- 3 PROVIDE WEATHERPROOF FLEXIBLE CONDUIT FROM 150A, 3P NON-FUSIBLE DISC. SWITCH TO FAN MOTOR.
- 4 SKYLIGHT SMOKE EVACUATION FAN

NOTE

1. ALL ELECTRICAL EQUIPMENT ON ROOF SHALL BE NEMA 4, WEATHERPROOF ENCLOSURE.

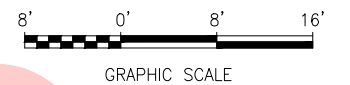
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

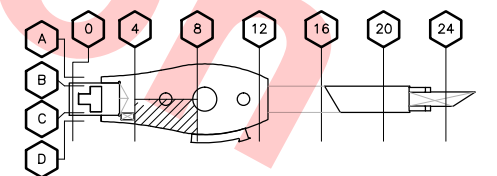
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Contract No.: DB11002F

By: _____ Date: _____



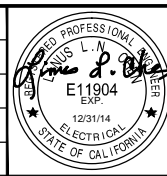
KEY ROOF PLAN



Jun 20, 2013 3:39pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E314.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130430				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130430



Submitted
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Skanska
Shimmick
Herzog

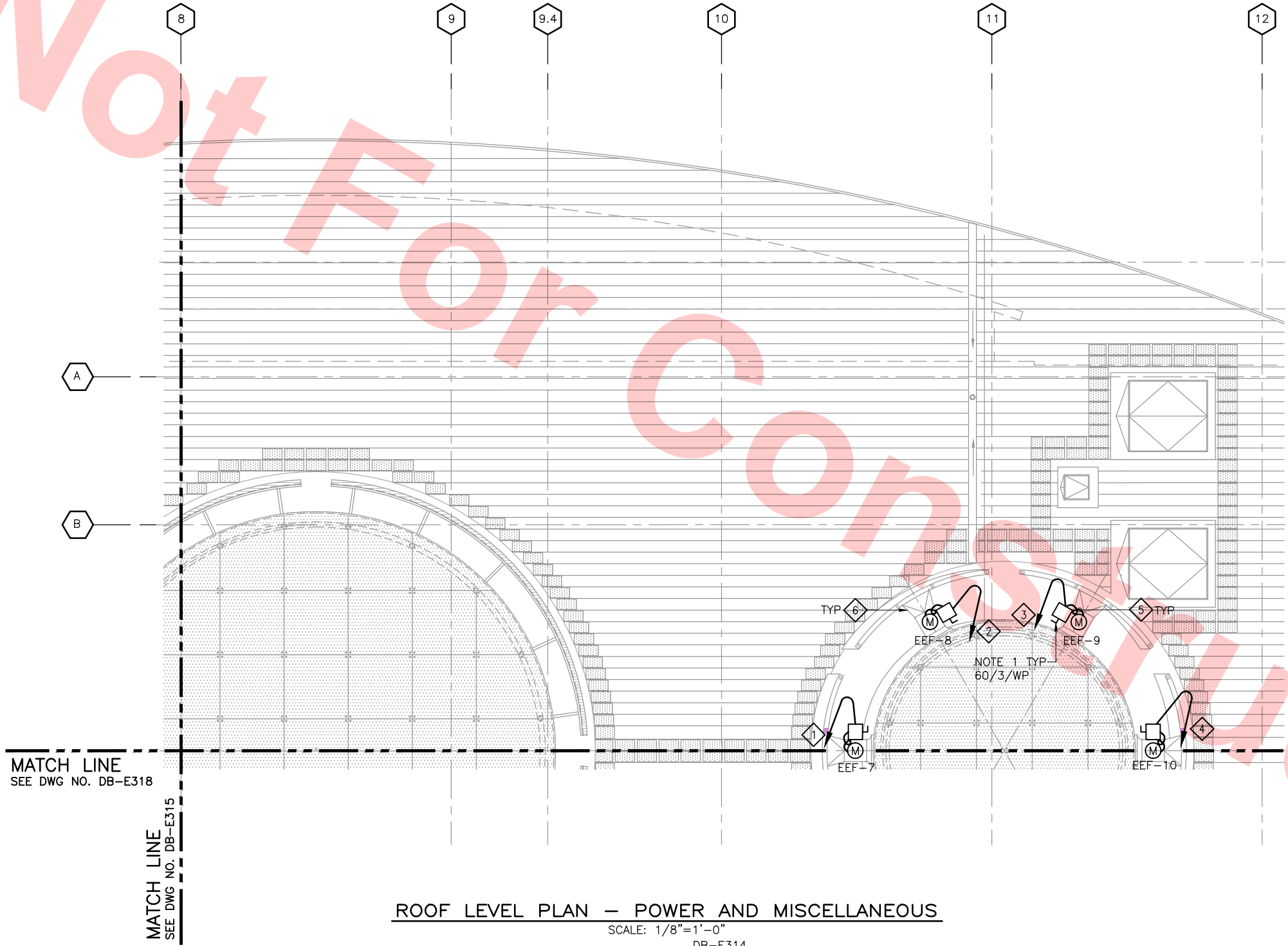
1436 California Circle
Milpitas, California 95035
A Joint Venture

Approved
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
Ray Adolph



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
ROOF LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 2 OF 4

CADD FILENAME C700-S-DB-E316.dwg	REV. 0
SIZE SCALE D 1/8"=1'-0"	PAGE NO. 0891
CONTRACT NO. C700	
AREA CODE DB	SHEET NO. E316



ROOF LEVEL PLAN — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-E314

KEY NOTES

- 1 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-1", CIRCUIT EMCC2713
- 2 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-1", CIRCUIT EMCC2714
- 3 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-1", CIRCUIT EMCC2715
- 4 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-1", CIRCUIT EMCC2716
- 5 PROVIDE WEATHERPROOF FLEXIBLE CONDUIT FROM 150A, 3P NON-FUSIBLE DISC. SWITCH TO FAN MOTOR.
- 6 SKYLIGHT SMOKE EVACUATION FAN

NOTE

- 1. ALL ELECTRICAL EQUIPMENT ON ROOF SHALL BE NEMA 4, WEATHERPROOF ENCLOSURE.

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

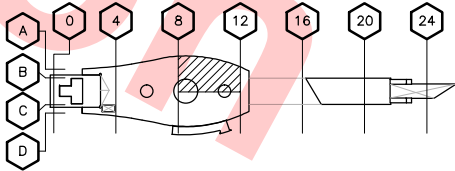
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____



KEY ROOF PLAN



Jun 20, 2013 3:57pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E317.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Submitted
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Skanska
Shimmick
Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED
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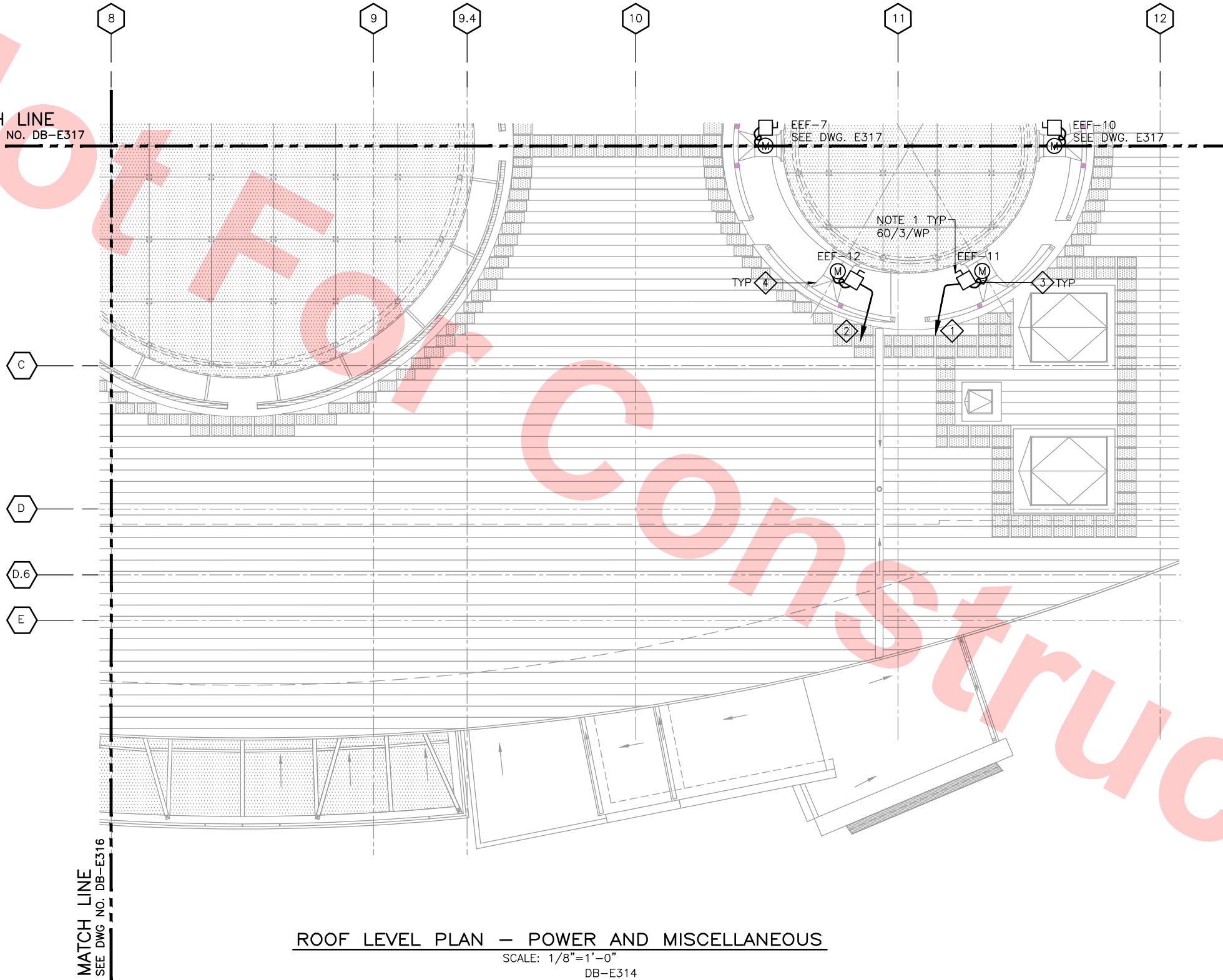


LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
ROOF LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 3 OF 4

CADD FILENAME C700-S-DB-E317.dwg	SIZE D	SCALE 1/8"=1'-0"	CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. E317	PAGE NO. 0892		



MATCH LINE
SEE DWG NO. DB-E317



ROOF LEVEL PLAN — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-E314

KEY NOTES

- 1 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-1", CIRCUIT EMCC2717
- 2 TO EMERGENCY MOTOR CONTROL CENTER "EMCC27-1", CIRCUIT EMCC2718
- 3 PROVIDE WEATHERPROOF FLEXIBLE CONDUIT FROM 150A, 3P NON-FUSIBLE DISC. SWITCH TO FAN MOTOR.
- 4 SKYLIGHT SMOKE EVACUATION FAN

NOTE

1. ALL ELECTRICAL EQUIPMENT ON ROOF SHALL BE NEMA 4, WEATHERPROOF ENCLOSURE.

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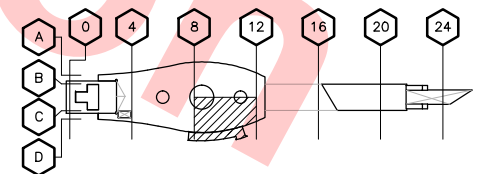
Contract No.: DB11002F

By: _____ Date: _____



GRAPHIC SCALE

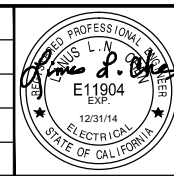
KEY ROOF PLAN



Jun 20, 2013 3:57pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E314.dwg

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0	20130710				READINESS FOR CONSTRUCTION

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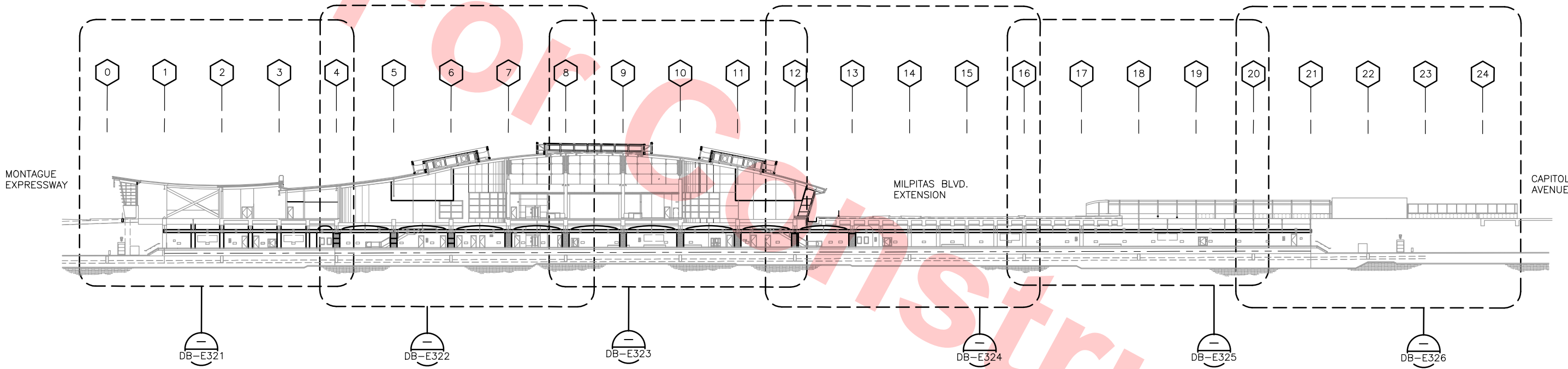
1436 California Circle
Milpitas, California 95035
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Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED
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LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
ROOF LEVEL PLAN
POWER AND MISCELLANEOUS
SHEET 4 OF 4

CADD FILENAME
C700-S-DB-E318.dwg
SIZE SCALE
D 1/8"=1'-0"
CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. DB E318 PAGE NO. 0893

Jun 20, 2013 3:58pm C:\Giles\Maravilla\Milpitas Station\Project\Drawings\Sheet\CT00-S-DB-E320.dwg



KEY LONGITUDINAL SECTION — POWER AND MISCELLANEOUS
SCALE: 1/32"=1'-0"

Santa Clara Valley Transportation Authority

☐ NO EXCEPTIONS TAKEN (NET)
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By: _____ Date: _____



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0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
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R. BARLAAN
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Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
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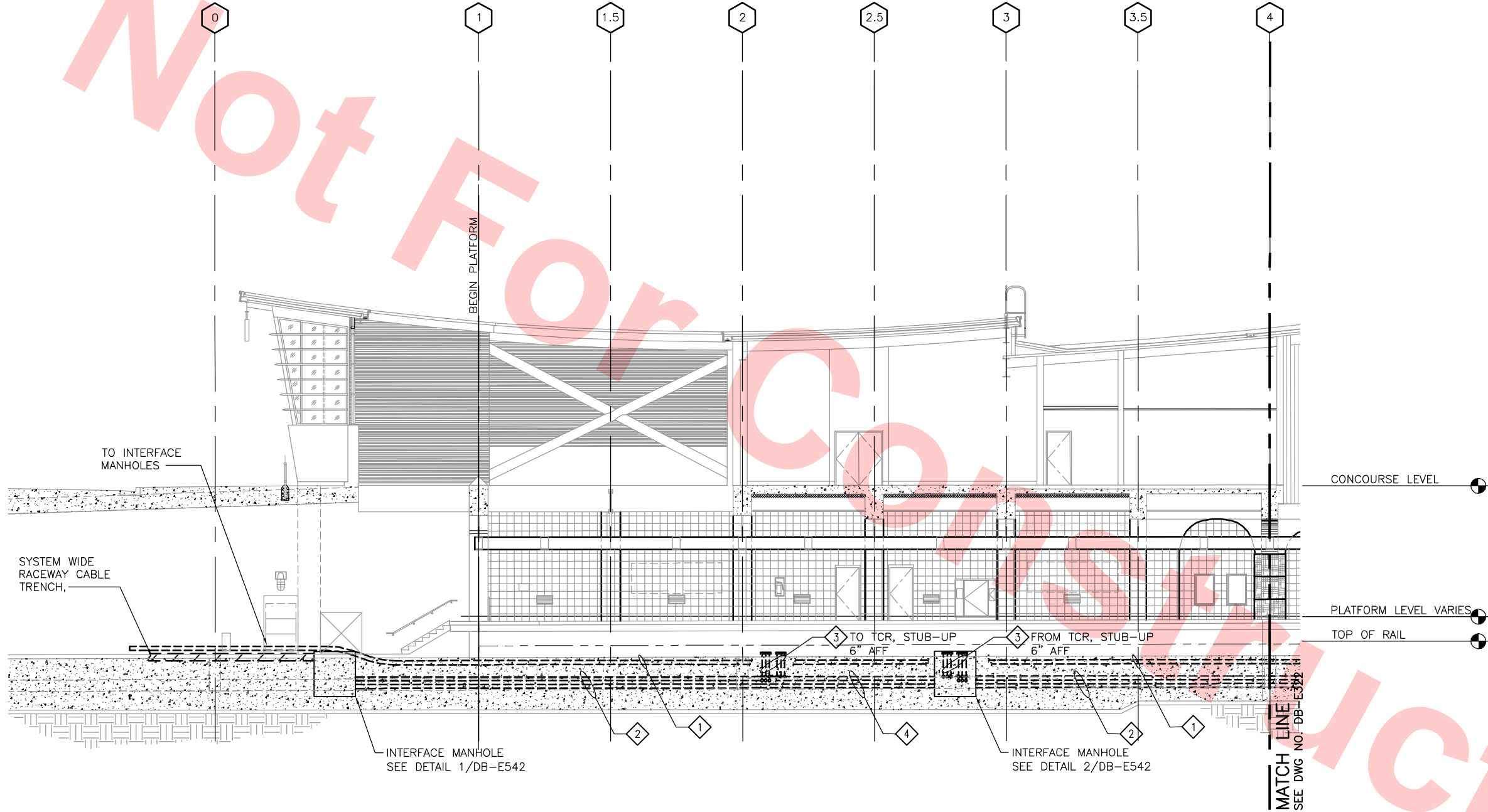
Lookwood, Andrews & Newman, Inc.
A LEI A BALLY COMPANY
T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
KEY LONGITUDINAL SECTION
POWER AND MISCELLANEOUS

CADD FILENAME C700-S-DB-E320.dwg	REV. 0
SIZE D	SCALE 1/32"=1'-0"
CONTRACT NO. C700	SHEET NO. E320
AREA CODE DB	PAGE NO. 0894

Client: Jun 24, 2013 4:22pm C:\GIS\Moreville\Milpitas Station\Project\Drawings\Sheet\CT00-S-DB-E321.dwg



LONGITUDINAL SECTION — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-A320

KEY NOTES

- 1 SYSTEM WIDE 34.5KV 3-6"C 34.5 KV (TPSS) IN STRUCTURAL INVERT.
- 2 28-4"C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT.
- 3 9-4"C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT.
- 4 19-4"C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT.

NOTE

- 1. ALL CONDUIT RUNS AS PER SYSTEM POWER/CONTROLS/COMMUNICATION SHOWN HERE ARE FOR REFERENCE ONLY, FOR DETAILS, CONSULT WITH SYSTEMS ELECTRICAL ENGINEERS.

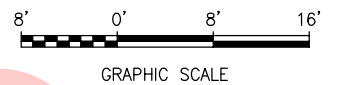
Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
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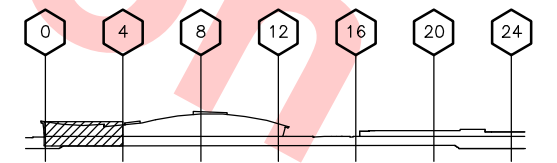
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Contract No.: DB11002F

By: Date:

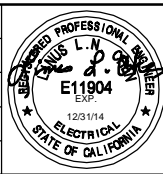


KEY PLAN



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 835-2337 Fax: (510) 835-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
LONGITUDINAL SECTION
POWER AND MISCELLANEOUS
SHEET 1 OF 6

CADD FILENAME C700-S-DB-E321.dwg	REV. 0
SIZE D	SCALE 1/8"=1'-0"
CONTRACT NO. C700	SHEET NO. E321
AREA CODE DB	PAGE NO. 0895

KEY NOTES

- 1

SYSTEM WIDE 34.5KV 3-6"C 34.5 KV (TPSS) IN STRUCTURAL INVERT.
- 2

28-4"C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT.

NOTE

1. ALL CONDUIT RUNS AS PER SYSTEM POWER/CONTROLS/COMMUNICATION SHOWN HERE ARE FOR REFERENCE ONLY, FOR DETAILS, CONSULT WITH SYSTEMS ELECTRICAL ENGINEERS.

Santa Clara Valley Transportation Authority

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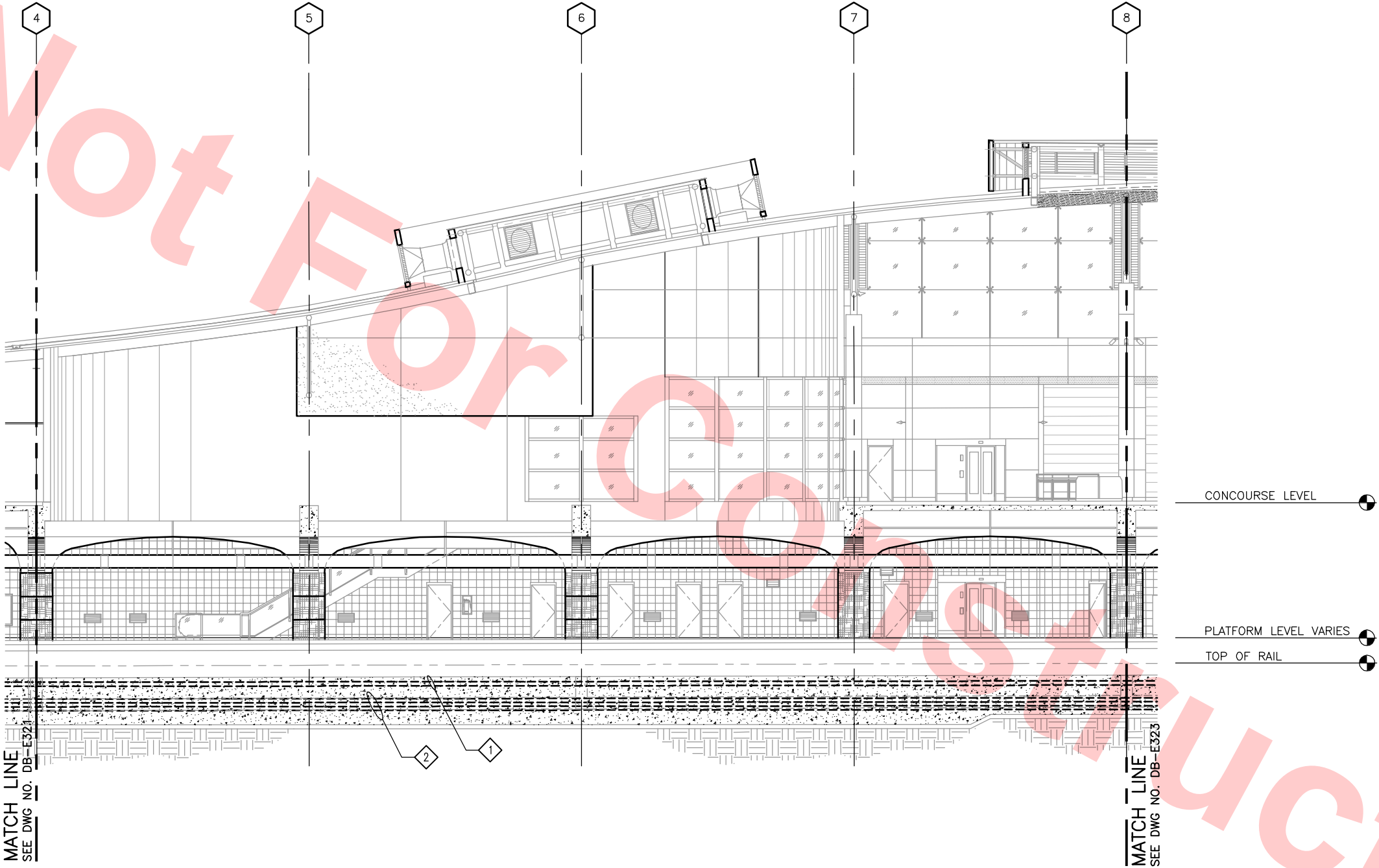
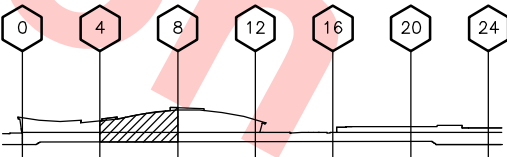
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



LONGITUDINAL SECTION – POWER AND MISCELLANEOUS

SCALE: 1/8"=1'-0"
DB-A320

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.

1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 835-2537 Fax: (510) 835-2339

Lookwood, Andrews
& Newman, Inc.

A LEO A DALY COMPANY

T-Y-LIN INTERNATIONAL

APPROVED

BART
SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
LONGITUDINAL SECTION
POWER AND MISCELLANEOUS
SHEET 2 OF 6

CADD FILENAME C700-S-DB-E322.dwg	REV.	0
SIZE SCALE D 1/8"=1'-0"	CONTRACT NO.	C700
AREA CODE DB	SHEET NO.	E322
PAGE NO.	0896	

KEY NOTES

- 1 SYSTEM WIDE 34.5KV 3-6"C 34.5 KV (TPSS) IN STRUCTURAL INVERT.
- 2 28-4"C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT.

NOTE

- 1. ALL CONDUIT RUNS AS PER SYSTEM POWER/CONTROLS/COMMUNICATION SHOWN HERE ARE FOR REFERENCE ONLY, FOR DETAILS, CONSULT WITH SYSTEMS ELECTRICAL ENGINEERS.

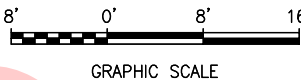
Santa Clara Valley Transportation Authority

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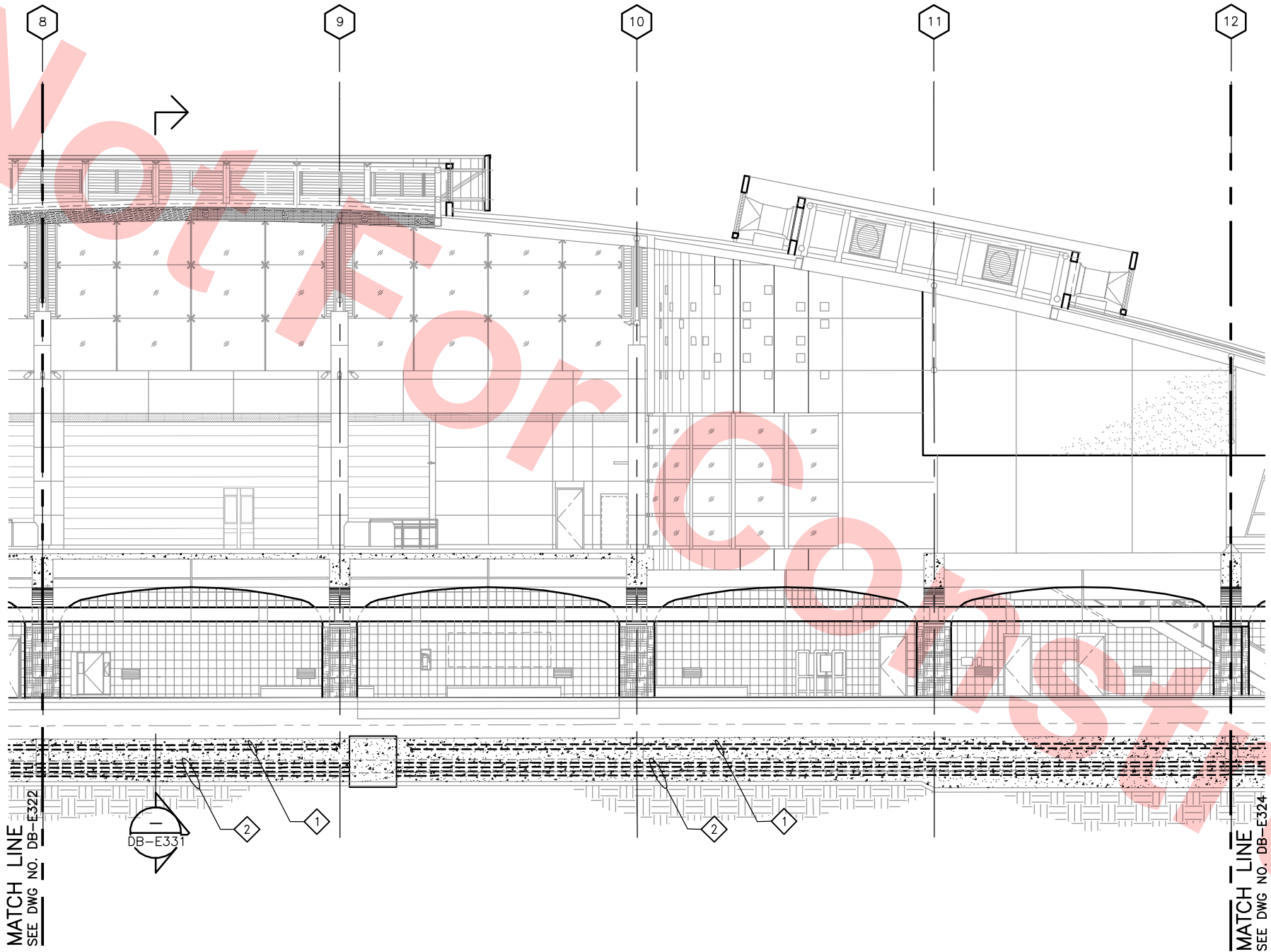
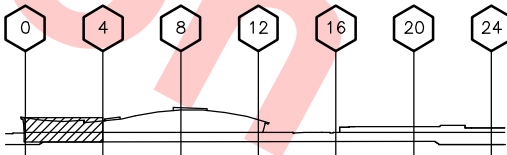
Contract No.: DB11002F

By: Date:



GRAPHIC SCALE

KEY PLAN



LONGITUDINAL SECTION — POWER AND MISCELLANEOUS

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

DB-A320

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY G. LALWANI
DRAWN BY G. MARAVILLA
CHECKED BY L. CHEN
IN CHARGE R. BARLAAN
DATE 20130710

Skanska Shimmick Herzog
1436 California Circle Milpitas, California 95035 A Joint Venture
Anil Verma Associates, Inc. 1970 Broadway, Suite 525 Phone: (510) 855-2537 Fax: (510) 855-2539
SUBMITTED

Lookwood, Andrews & Newman, Inc. A LEO A DALY COMPANY
T-Y-LIN INTERNATIONAL
APPROVED

BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
LONGITUDINAL SECTION
POWER AND MISCELLANEOUS
SHEET 3 OF 6

CADD FILENAME C700-S-DB-E323.dwg
SIZE SCALE D 1/8"=1'-0"
CONTRACT NO. C700
REV. 0
AREA CODE DB
SHEET NO. E323
PAGE NO. 0897

KEY NOTES

- 1

SYSTEM WIDE 34.5KV 3-6"C 34.5 KV (TPSS) IN STRUCTURAL INVERT.
- 2

28-4"C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT.

NOTE

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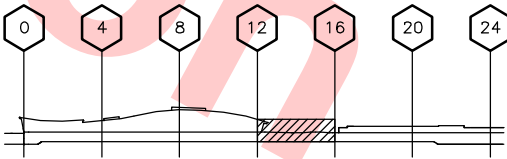
Contract No.: DB11002F

By: Date:



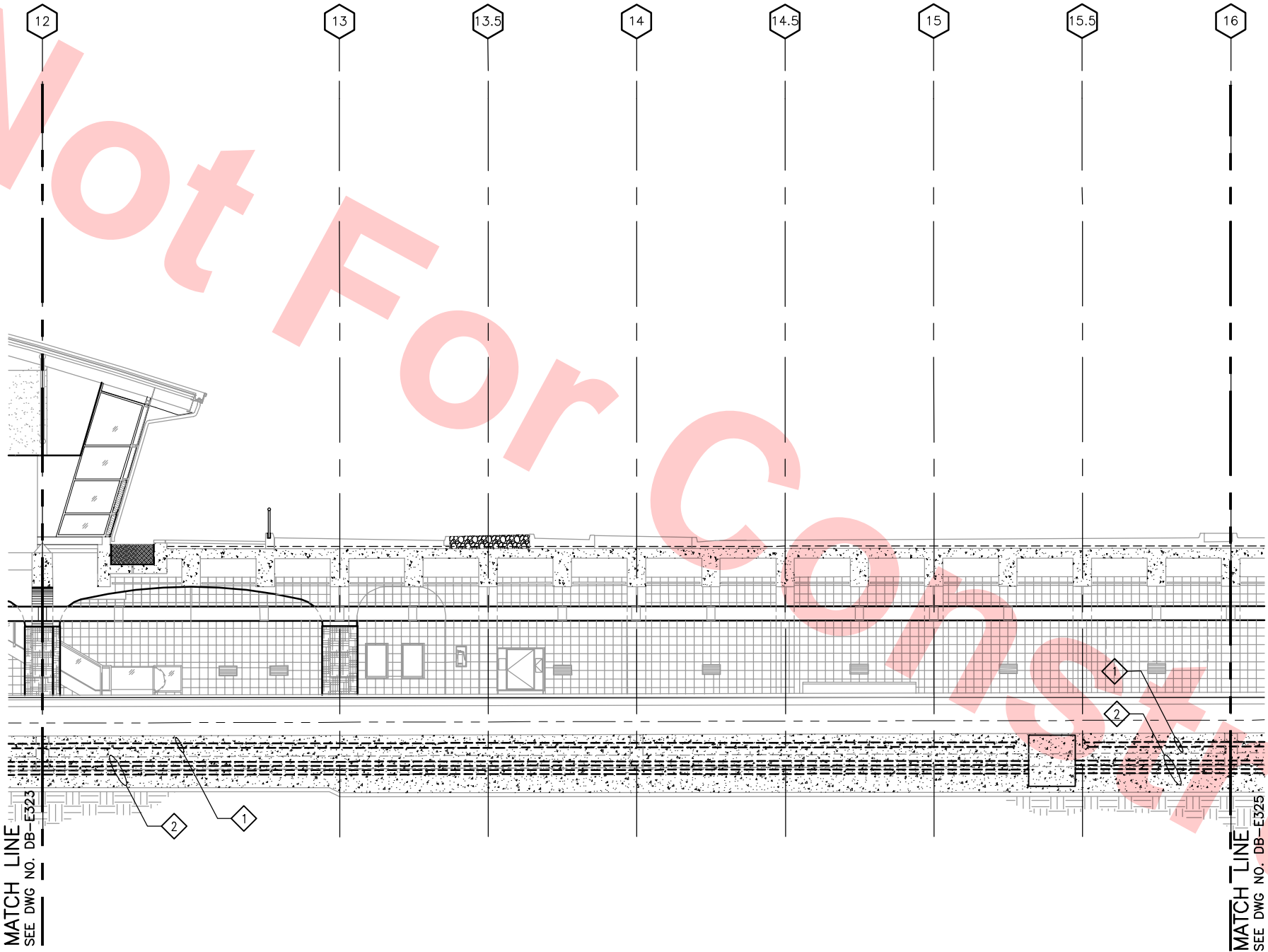
GRAPHIC SCALE

KEY PLAN



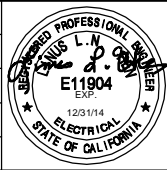
LONGITUDINAL SECTION — POWER AND MISCELLANEOUS

SCALE: 1/8"=1'-0"
DB-A320



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
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LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
LONGITUDINAL SECTION
POWER AND MISCELLANEOUS
SHEET 4 OF 6

CADD FILENAME C700-S-DB-E324.dwg		
SIZE	SCALE 1/8"=1'-0"	
CONTRACT NO.	C700	REV. 0
AREA CODE	DB	SHEET NO. E324
		PAGE NO. 0898

- 1 SYSTEM WIDE 34.5KV 3-6"C 34.5 KV (TPSS) IN STRUCTURAL INVERT.
- 2 2B-4"C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT.

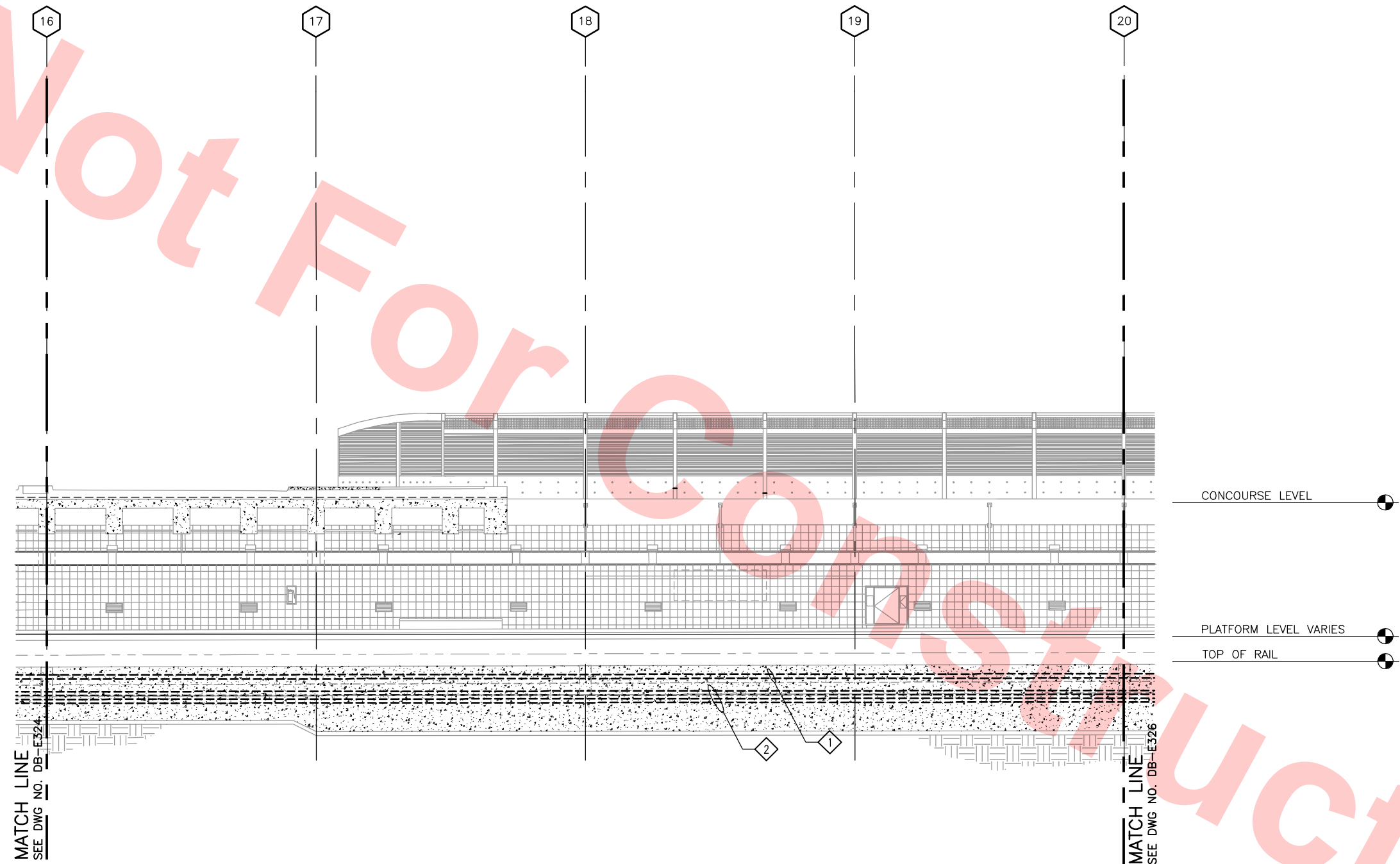
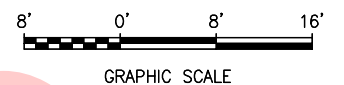
1. ALL CONDUIT RUNS AS PER SYSTEM
POWER/CONTROLS/COMMUNICATION SHOWN HERE
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Contract No.: DB11002F

By: _____ **Date:** _____



LONGITUDINAL SECTION — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"
DB-A320

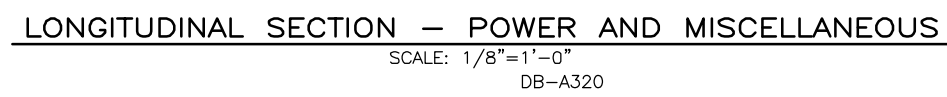
						DESIGNED BY G. LALWANI		Skanska Shimmick Herzog 1436 California Circle Milpitas, California 95035 A Joint Venture	 BART SILICON VALLEY BART SILICON VALLEY BERRYESSA EXTENSION	LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION LONGITUDINAL SECTION POWER AND MISCELLANEOUS SHEET 5 OF 6	CADD FILENAME C700-S-DB-E325.dwg		
					DRAWN BY G. MARAVILLA	SIZE D					SCALE 1/8"=1'-0"	CONTRACT NO. C700	REV. 0
					CHECKED BY L. CHEN								
					IN CHARGE R. BARLAAN								
0	20130710				READINESS FOR CONSTRUCTION	DATE 20130710					AREA CODE DB	SHEET NO. E325	PAGE NO. 0899
REV	DATE	BY	SUB	APP	DESCRIPTION								



- 1 SYSTEM WIDE 34.5KV 3-6°C 34.5 KV (TPSS) IN STRUCTURAL INVERT.
- 2 28-4°C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT.

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By: _____ **Date:** _____



						DESIGNED BY G. LALWANI		Skanska Shimmick Herzog 1436 California Circle Milpitas, California 95035 A Joint Venture	 BART SILICON VALLEY	LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION LONGITUDINAL SECTION POWER AND MISCELLANEOUS SHEET 6 OF 6	CADD FILENAME C700-S-DB-E326.dwg		
					DRAWN BY G. MARAVILLA	SIZE D					SCALE 1/8"=1'-0"	CONTRACT NO. C700	REV. 0
					CHECKED BY L. CHEN	AREA CODE DB					SHEET NO. E326	PAGE NO. 0900	
0	20130710				IN CHARGE R. BARLAAN								
REV	DATE	BY	SUB	APP	DESCRIPTION	DATE	SUBMITTED	APPROVED					
					READINESS FOR CONSTRUCTION	20130710							

KEY NOTES

- 1

28-4" C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT.
- 2

SYSTEM WIDE 34.5KV CONDUITS IN STRUCTURAL INVERT BY C700. SEE DWG (LATER)
- 3

SYSTEM WIDE FIBER OPTIC CONDUITS IN STRUCTURAL INVERT SEE C700 DWG (LATER) BER OPTIC PULLBOX BY SYSTEMS.
- 4

NOT USED
- 5

9-4" C SYSTEM WIDE TRAIN CONTROL/COMMUNICATION RACEWAYS IN STRUCTURAL INVERT STUB-UP 6" ABOVE FINISHED CONCOURSE FLOOR.
- 6

NOT USED
- 7

SEE DRAWING DB-E211X FOR TRAIN CONTROL/COMM RM. #C18 (CONCOURSE LEVEL), LOCATION. REFER ALSO TO SYSTEMS DRAWINGS.

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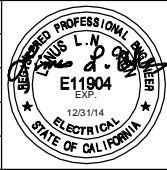
GRAPHIC SCALE

TRANSVERSE SECTION — POWER AND MISCELLANEOUS
SCALE: 1/8"=1'-0"

Jun 26, 2013 11:11am C:\projects\svb\gmaravilla\c700-s-db-e331.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
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Anil Verma Associates, Inc.
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& Nowman, Inc.
T-Y-LIN INTERNATIONAL
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LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRANSVERSE SECTION
POWER AND MISCELLANEOUS

CADD FILENAME C700-S-DB-E331.dwg	
SIZE D	SCALE 1/8"=1'-0"
CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. E331
	PAGE NO. 0901



KEY NOTES

- 1 #4/0 BCW TO ELECTRICAL ROOM GROUND BAR
- 2 #2/0 BCW TO EMERGENCY GENERATOR
- 3 #2/0 BCW TO TRAIN CONTROL ROOM/ COMMUNICATIONS GROUNDING BAR
- 4 #2/0 BCW TO BATTERY ROOM
- 5 #2/0 BCW TO ESCALATOR AND ELEVATOR MACHINE ROOM GROUNDING BAR

- 6 #4/0 BCW TO TELCO ROOM
- 7 #2/0 BCW TO COMM ROOM GROUND BAR
- 8 CHASSIS GROUND BUS SEE BFS STANDARD DETAIL 1 NS69
- 9 CHASSIS GROUND BUS SEE BFS STANDARD DETAIL 2 NS69

NOTES

- 1. DEPTH OF GROUNDING GRID CONDUCTOR SHALL BE COORDINATED WITH STRUCTURAL FOUNDATION.
- 2. TEST GROUNDING GRID TO MEASURE GROUNDING RESISTANCE. RESISTANCE SHALL BE 5 OHMS OR LESS
- 3. PROVIDE 6'-0" GROUND PIGTAIL WHERE INDICATED OR REQUIRED.
- 4. PIGTAIL TO PENETRATE WALL AND RUN EXPOSED INSIDE ROOM.
- 5. GROUND ALL METAL DOORS AND HANDRAILS.
- 6. PROVIDE GROUND WIRE IN EACH ROOM.

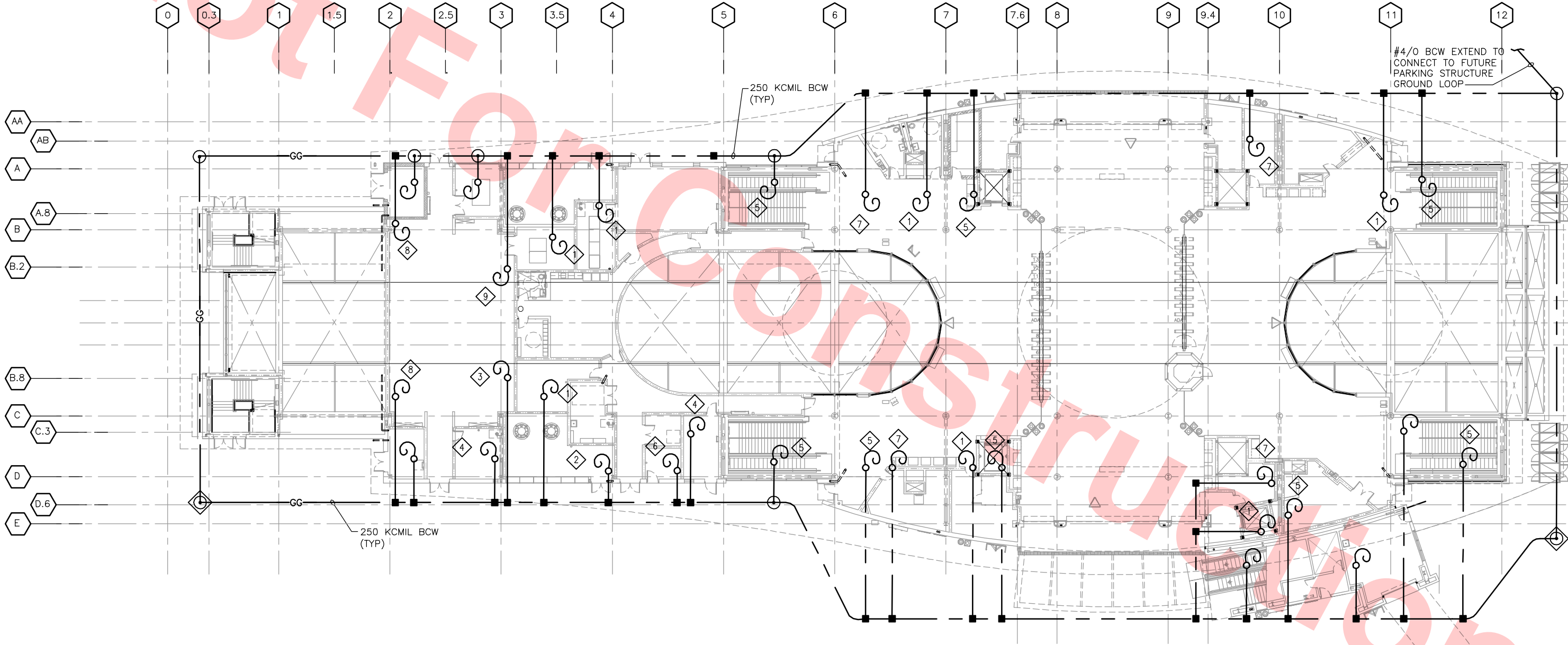
Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

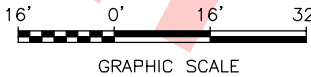
Contract No.: DB11002F

By: Date:



STATION GROUNDING LAYOUT – CONCOURSE LEVEL

SCALE: 1/16"=1'-0"



Jun 27, 2013 1:24pm C:\Current Projects\BartBerryessa Extension Project\Station - Milpitas\CAD\Drawings Out\13-0710 C700 Milpitas Station - RFS Submit\C700-S-DB-E351.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



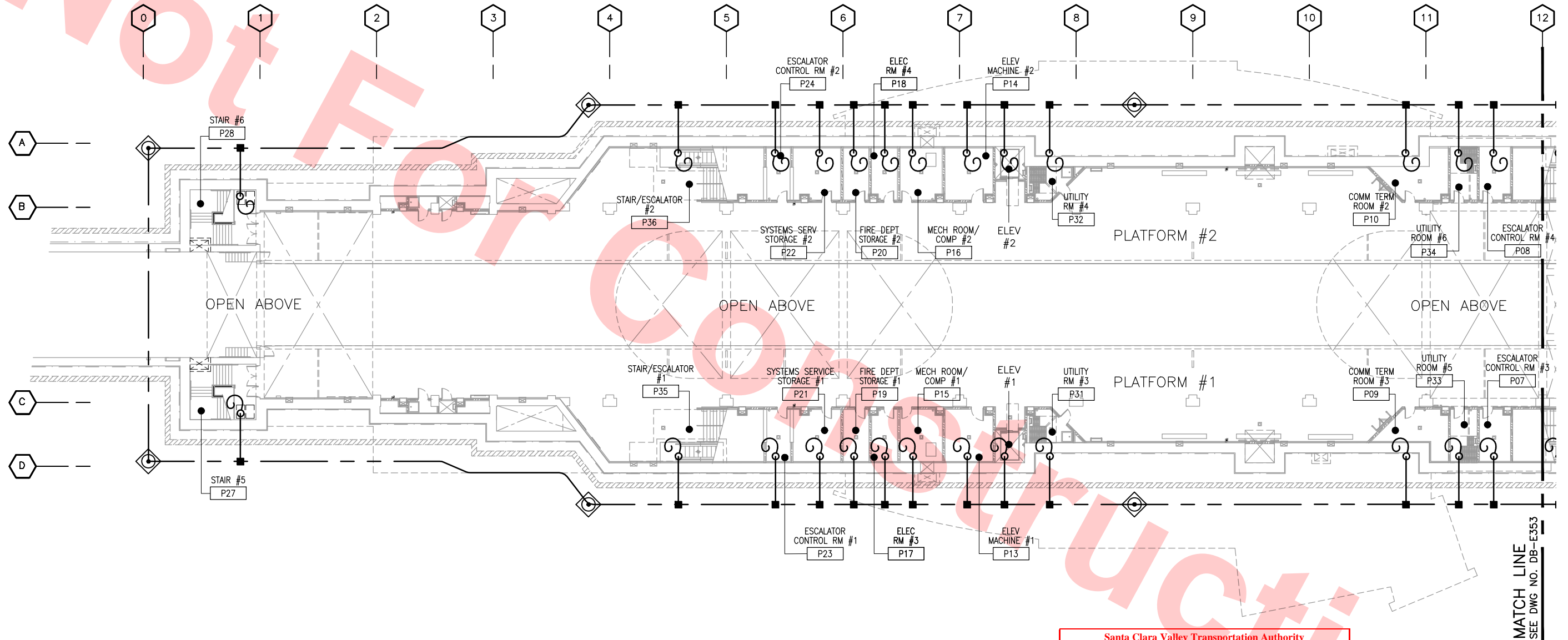
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 420
Milpitas, California 95035
Phone: (415) 855-2537 Fax: (415) 855-2539

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
STATION GROUNDING LAYOUT
CONCOURSE LEVEL

CADD FILENAME C700-S-DB-E351.dwg	REV. 0
SIZE SCALE D 1/16"=1'-0"	
CONTRACT NO. C700	
AREA CODE DB	
SHEET NO. E351	
PAGE NO. 0902	



STATION GROUNDING LAYOUT — PLATFORM LEVEL
SCALE: 1/16"=1'-0"

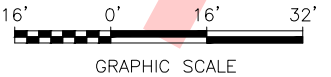
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
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AMEND AND RESUBMIT (A/R)

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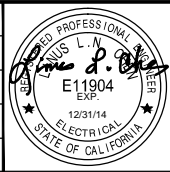
Contract No.: DB11002F

By: _____ Date: _____



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Lockwood, Andrews & Newnam, Inc.
A LEI A BALLY COMPANY

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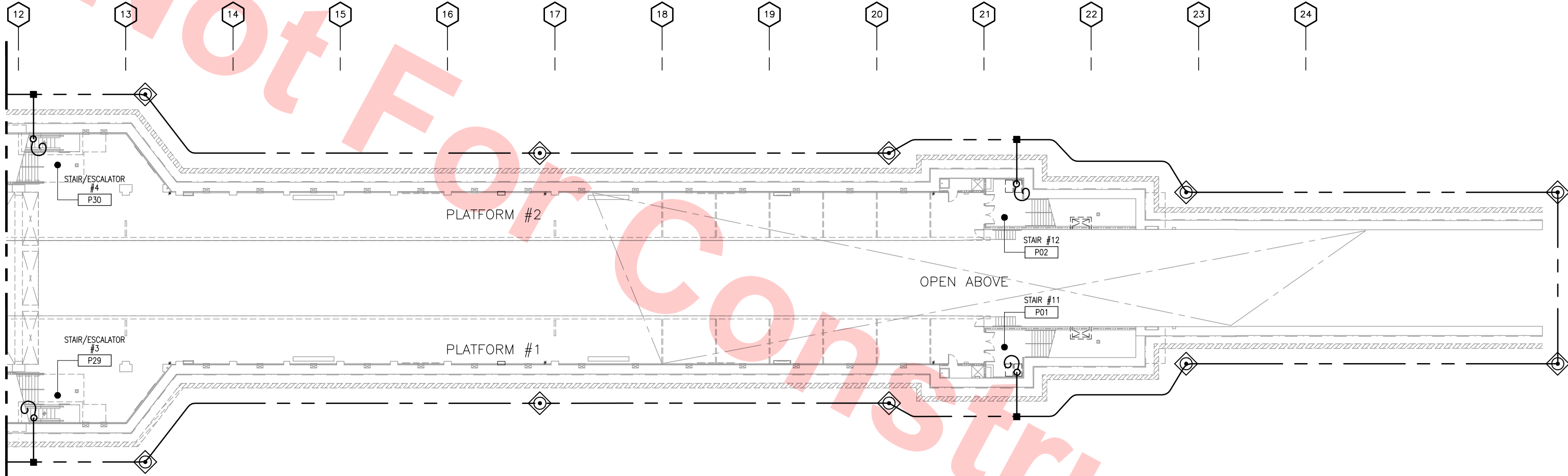
SUBMITTED *[Signature]*

APPROVED *[Signature]*



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
STATION GROUNDING LAYOUT
PLATFORM LEVEL
SHEET 1 OF 2

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AREA CODE DB	SHEET NO. E352	PAGE NO. 0903		



MATCH LINE
SEE DWG NO. DB-E352

STATION GROUNDING LAYOUT — PLATFORM LEVEL
SCALE: 1/16"=1'-0"

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
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AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



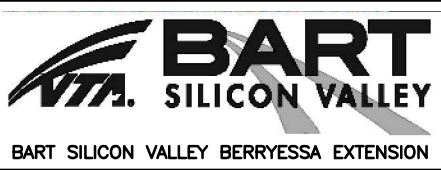
Skanska
Shimmick
Herzog

Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture

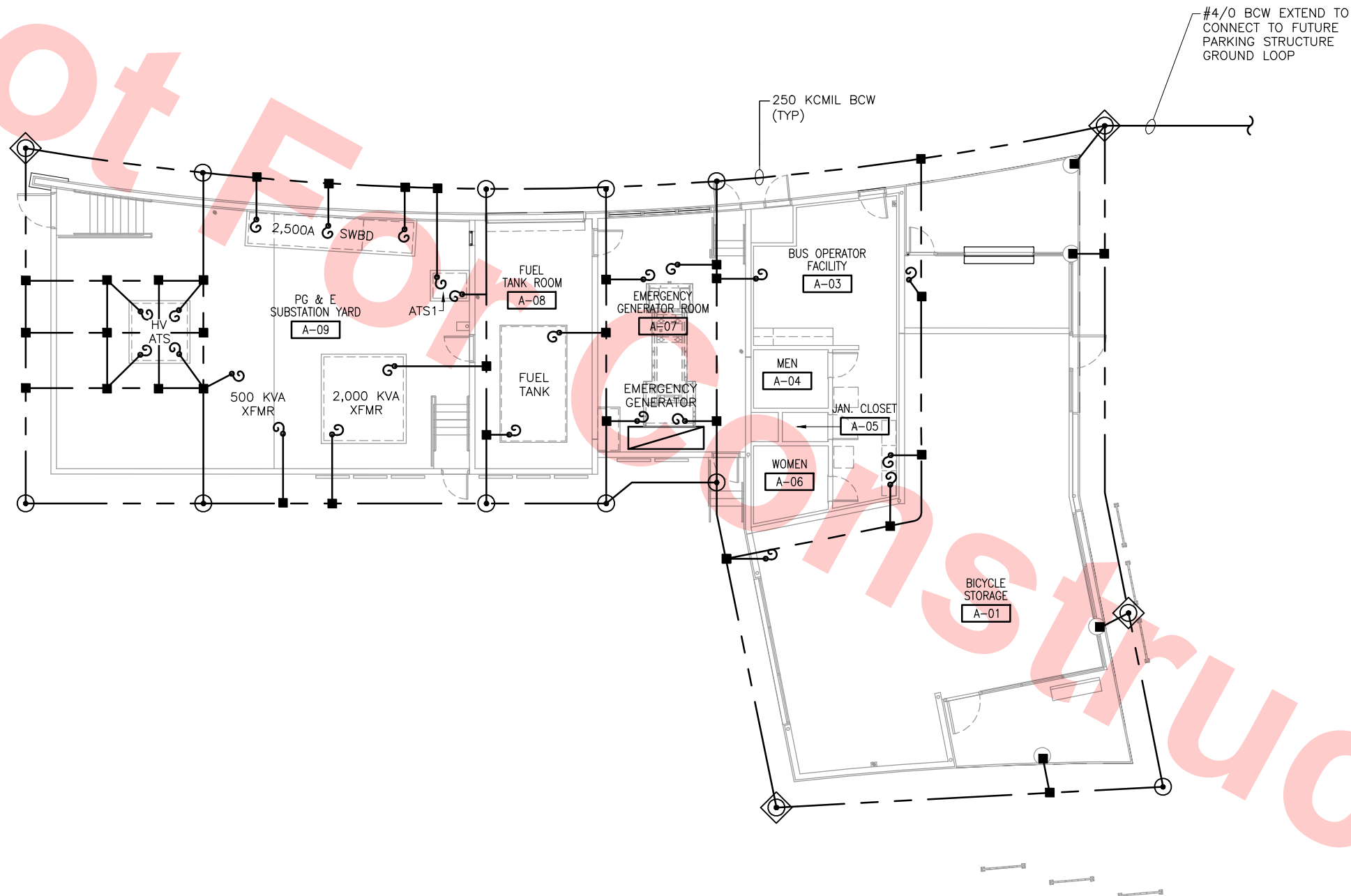
Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY

T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
STATION GROUNDING LAYOUT
PLATFORM LEVEL
SHEET 2 OF 2

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SIZE D	SCALE 1/16"=1'-0"
CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. E353
	PAGE NO. 0904



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

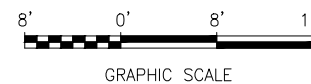
Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

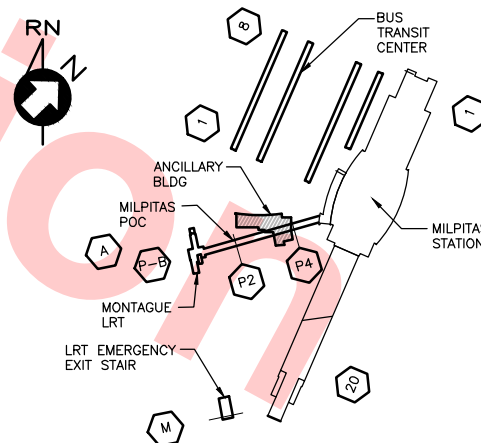
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Contract No.: DB11002F

By: _____ Date: _____



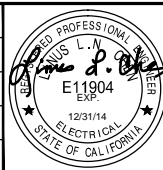
KEY PLAN



Jun 21, 2013 4:45pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E354.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
R. CRUZ
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



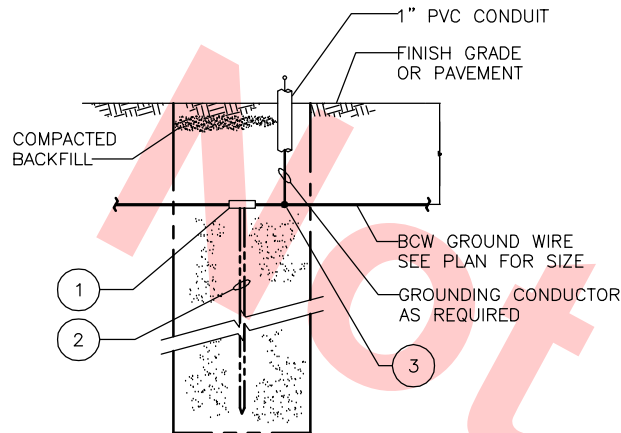
Skanska Shimmick Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 455-2530 Fax: (510) 535-2539

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews & Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED *Ry Holmuth*



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
ANCILLARY BUILDING
GROUNDING PLAN

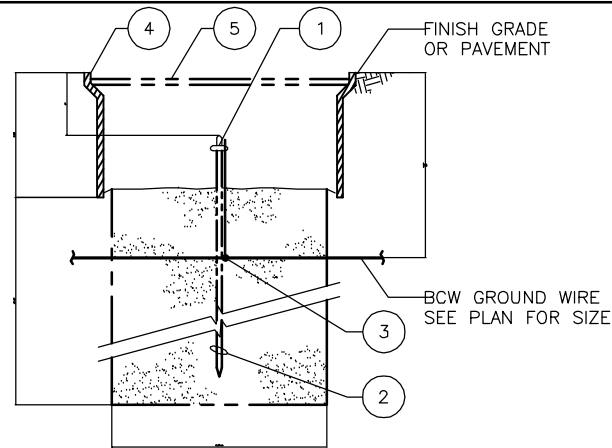
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SIZE SCALE D 1/8"=1'-0"	
CONTRACT NO. C700	
AREA CODE DB	SHEET NO. E354
	PAGE NO. 0905



ITEM	DESCRIPTION
1	CONTRACTOR, CADWELL TYPE GT GROUND ROD OR APPROVED EQUAL
2	COPPERWELD GROUND ROD, 3/4"Øx10'-0" OR APPROVED EQUAL
3	EXOTHERMIC CONNECTION, CADWELD TYPE TA OR APPROVED EQUAL

GROUNDING ROD INSTALLATION

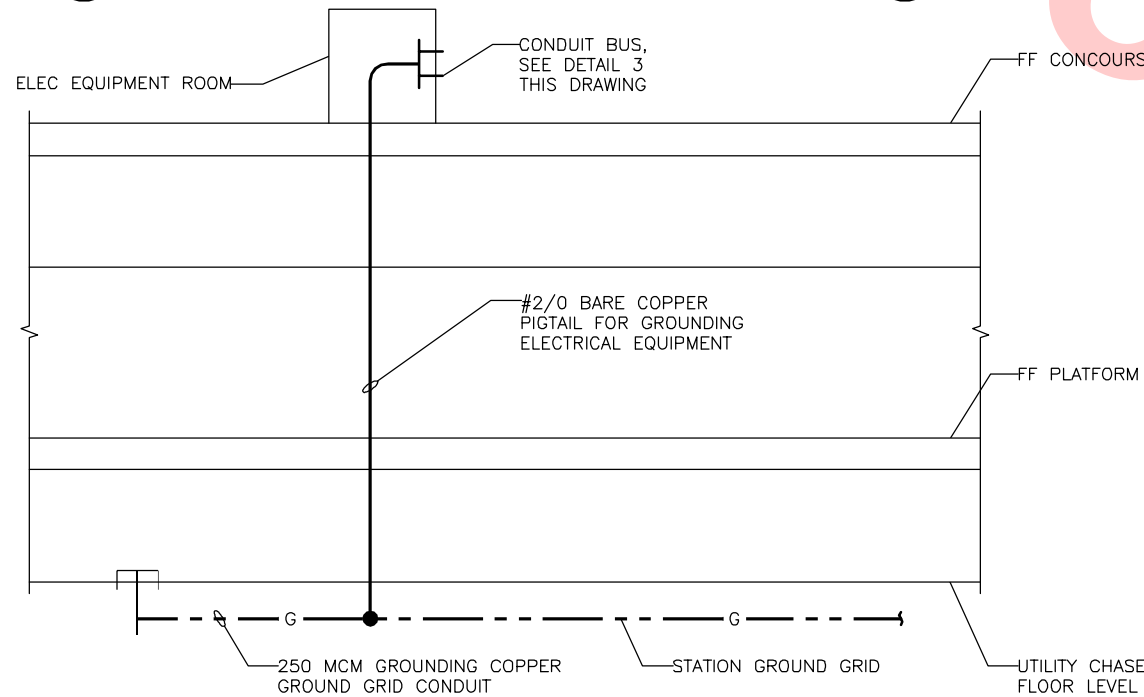
DETAIL 1
SCALE: NTS DB-E356



ITEM	DESCRIPTION
1	CONNECTOR, #2/0-25kcmil CONDUCTOR RANGE BURNDY CAT. GAR6429 OR APPROVED EQUAL
2	COPPERWELD GROUND ROD, 3/4"Øx10'-0" OR APPROVED EQUAL
3	EXOTHERMIC CONNECTION, CADWELD TYPE TA OR APPROVED EQUAL
4	12"x20" CHRISTY B12 UTILITY BOX
5	CHRISTY B12D REINFORCED CONCRETE LID WITH TWO HOLES

GROUNDING WELL INSTALLATION

DETAIL 2
SCALE: NTS DB-E356



TYPICAL GROUND CABLE RISER DIAGRAM

DETAIL 4
SCALE: NTS DB-E356

Santa Clara Valley Transportation Authority

___ NO EXCEPTIONS TAKEN (NET)
___ MAKE CORRECTIONS NOTED (MCN)
___ AMEND AND RESUBMIT (A/R)

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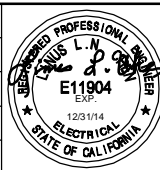
Contract No.: DB11002F

By: _____ Date: _____

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REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LAWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 420
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2539
SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED

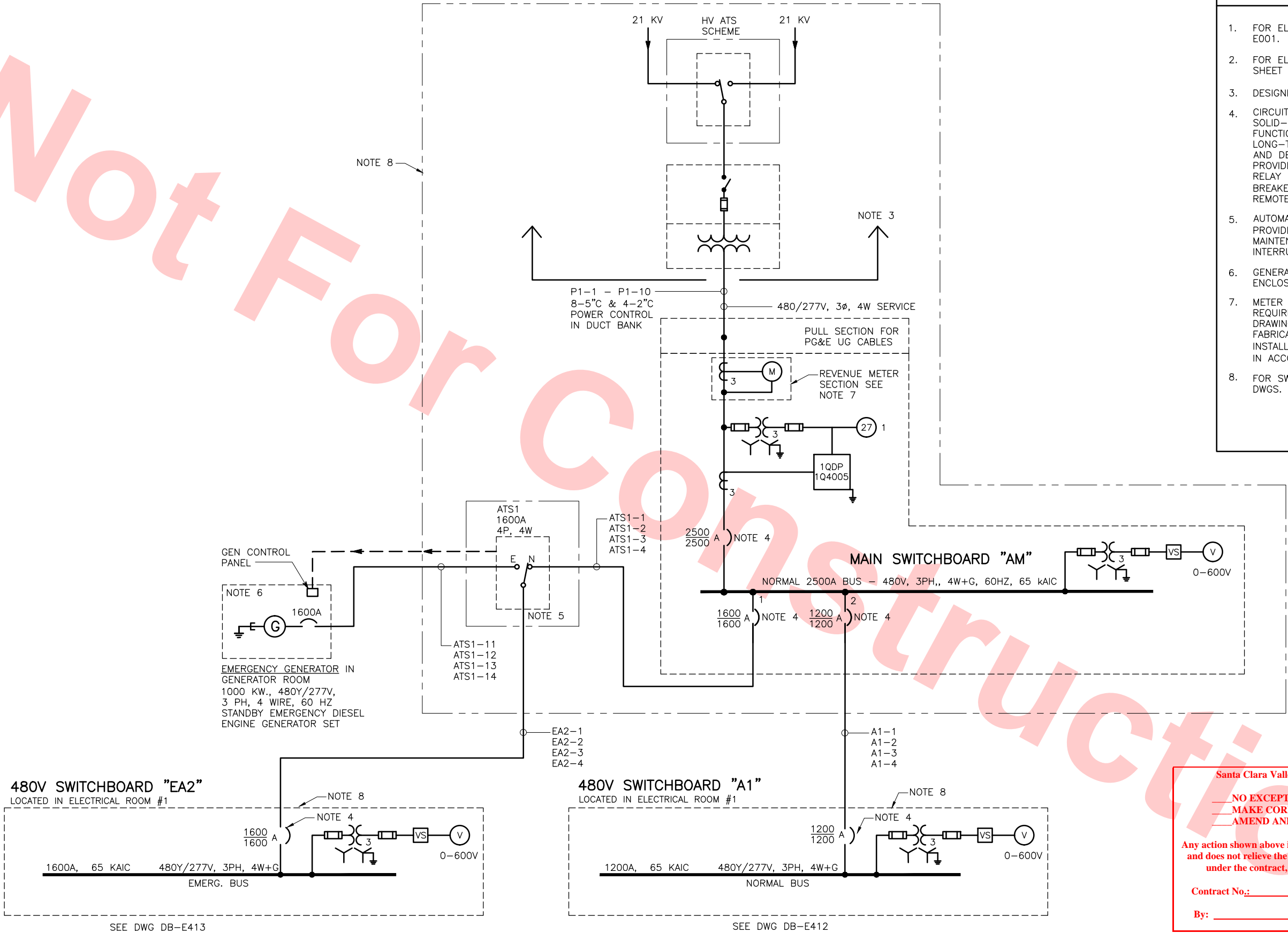


LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
GROUNDING DETAILS

CADD FILENAME C700-S-DB-E356.dwg	REV. 0
SIZE D	SCALE NONE
CONTRACT NO. C700	SHEET NO. E356
AREA CODE DB	PAGE NO. 0907

NOTES

- FOR ELECTRICAL ABBREVIATION REFER TO SHEET E001.
- FOR ELECTRICAL DIAGRAM AND SYMBOLS REFER TO SHEET E003.
- DESIGNED AND FURNISHED BY PG&E
- CIRCUIT BREAKER SHALL BE PROVIDED WITH SOLID-STATE TRIPPING UNIT HAVING THE FOLLOWING FUNCTIONS:
LONG-TIME PICKUP AND DELAY, SHORT-TIME PICKUP AND DELAY AND GROUND FAULT PICKUP AND DELAY
PROVIDE UNDERVOLTAGE RELAY AND LOCK-OUT RELAY DEVICE 86 AND AUXILIARY CONTACTS OF MAIN BREAKER FOR SCADA OPEN/CLOSE INDICATION AT REMOTE LOCATION.
- AUTOMATIC TRANSFER SWITCH ATS1 SHALL BE PROVIDED WITH BYPASS/ISOLATION SWITCHES FOR MAINTENANCE TESTING AND REPAIR WITHOUT INTERRUPTING POWER TO THE LOAD.
- GENERATOR SHALL BE WITH WEATHER/SOUND ENCLOSURE AND SUB BASE FUEL DAY TANK.
- METER SECTION HOUSING TO COMPLY WITH PG&E REQUIREMENTS FOR PG&E METER. SUBMIT SHOP DRAWINGS FOR APPROVAL BY PG&E BEFORE FABRICATION OF SWITCHBOARD. FURNISH AND INSTALL 2-2" CONDUITS (FOR REVENUE METERING). IN ACCORDANCE WITH PG&E's REQUIREMENTS.
- FOR SWITCHBOARDS LOADS OF "A1" AND "EA2", SEE DWGS. E412 AND E413 AND LOAD CALCULATIONS.



Santa Clara Valley Transportation Authority

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AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

Jun 21, 2013 4:45pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E411.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

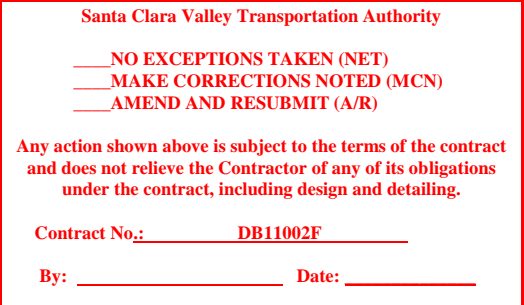
1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED
Ray Adolph



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
480V POWER DISTRIBUTION
SINGLE LINE DIAGRAM
SHEET 1 OF 4

CADD FILENAME C700-S-DB-E411.dwg	SIZE D	SCALE NONE
CONTRACT NO. C700	SHEET NO. E411	REV. 0
AREA CODE DB	PAGE NO. 0908	

1. FOR CONNECTIONS TO EQUIPMENT AND PANELS FOR ESSENTIAL BUS, SEE SYSTEMS INSTALLATION SINGLE LINE DIAGRAM DWG. NO. SE-E200.
2. ALL BREAKERS SHALL BE RATED FOR 65 kAIC @ 480V.
3. FOR ELECTRICAL ABBREVIATION REFER TO SHEET E001.
4. FOR ELECTRICAL DIAGRAM AND SYMBOLS REFER TO SHEET E003.
5. FOR LIGHTING AND POWER PANELS "L115", "LA115" LOCATED IN ANCILLARY BUILDING (PG&E YARD). SEE DRAWING E522 FOR PANEL SCHEDULES.

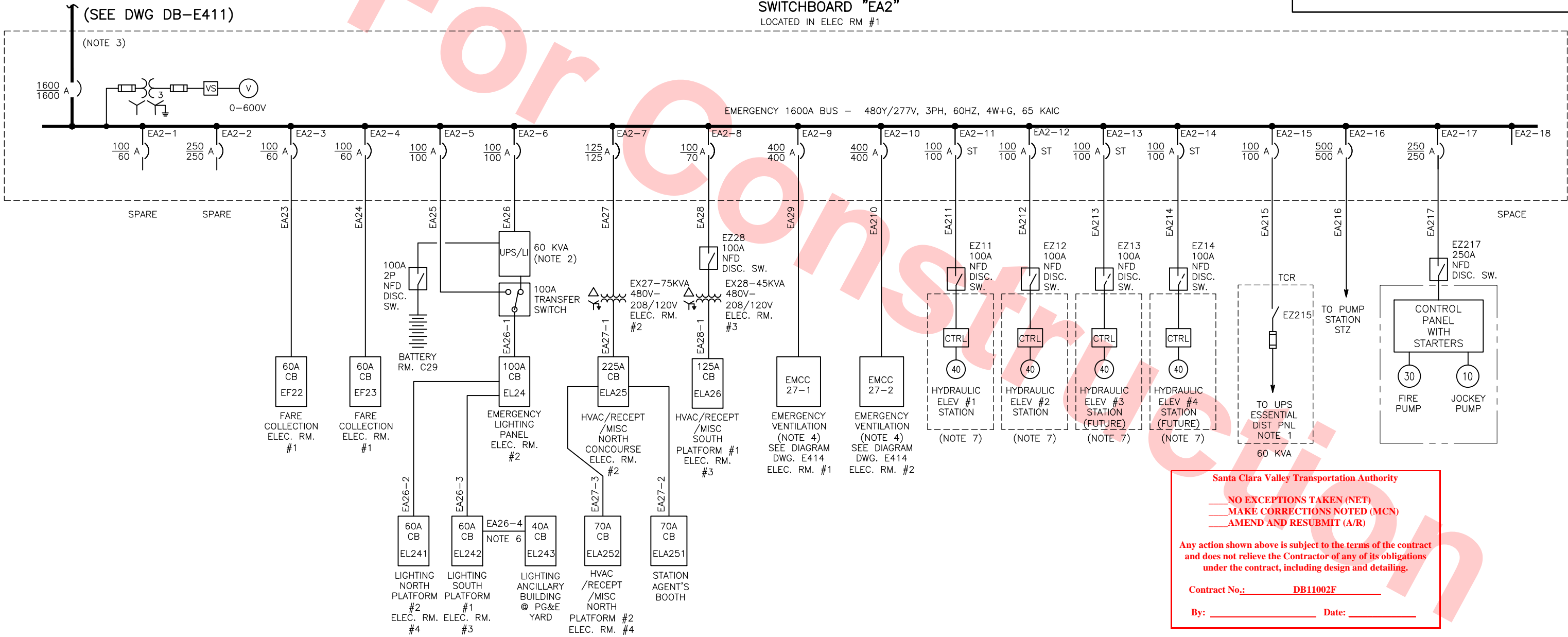


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NOTES

- FOR CONNECTIONS TO EQUIPMENT AND PANELS FOR ESSENTIAL BUS IN TCR, SEE SYSTEMS DWG.
- FOR UPS EQUIPMENT AND ASSOCIATED BATTERIES SEE DRAWING DB-E504
- 480V MAIN BREAKER AND METER ASSOCIATED WITH SWITCHBOARD "A1" ARE SHOWN ON DB-E411.
- EMERGENCY MOTOR CONTROL CENTER (EMCC27-1 & EMCC27-2). FOR EMERGENCY VENTILATION SUPPLY AND EXHAUST FANS SEE DWG DB-E414.
- NOT USED
- TO EMERGENCY LIGHTING PANEL "EL243" AT ANCILLARY BUILDING (PG & E YARD). SEE DRAWING DB-E523 FOR CONTINUATION.
- ALL ELEVATOR FEEDER BREAKERS SHALL BE EQUIPPED WITH SHUNT TRIP DEVICE, AND SHALL TRIP ON FIRE ALARM EMERGENCY.

SWITCHBOARD "EA2"
LOCATED IN ELEC RM #1



Santa Clara Valley Transportation Authority

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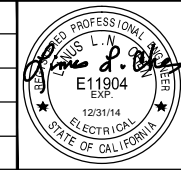
Contract No.: DB11002F

By: _____ Date: _____

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REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog

Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture

Lockwood, Andrews
& Newnam, Inc.
A LEED A RALLY COMPANY

T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
480V POWER DISTRIBUTION
SINGLE LINE DIAGRAM
SHEET 3 OF 4

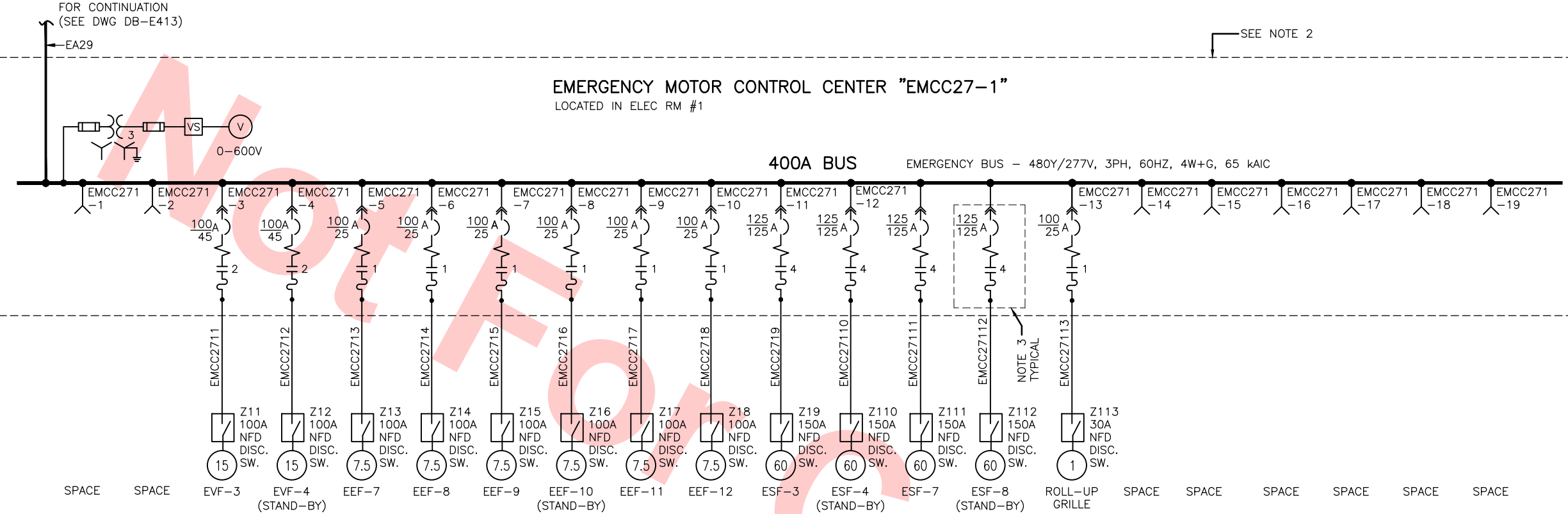
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AREA CODE DB	PAGE NO. 0910	

NOTES

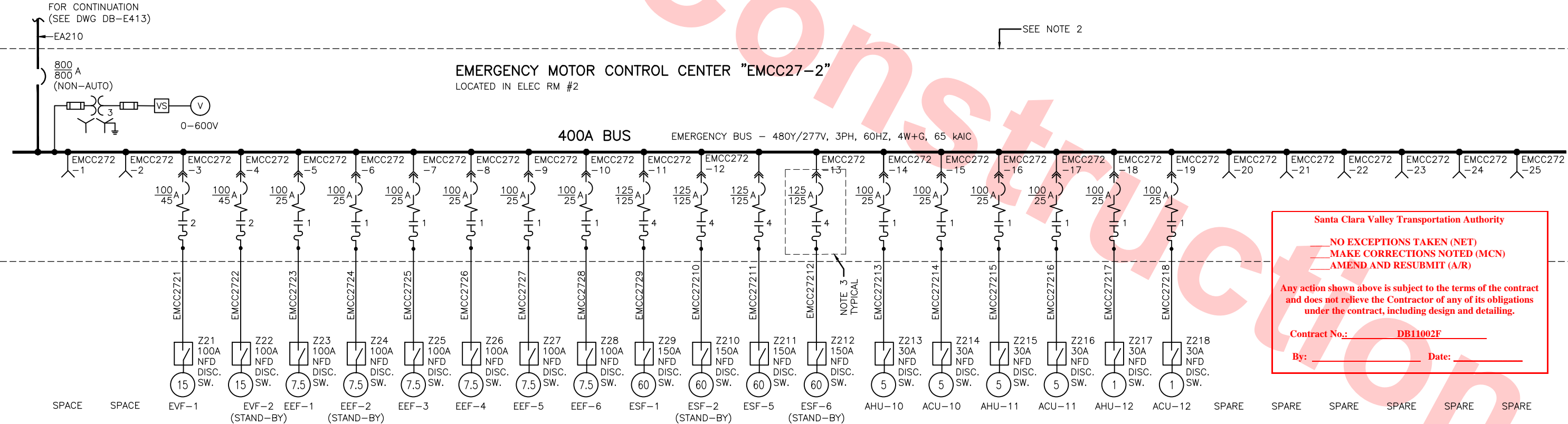
1. EMERGENCY MOTOR CONTROL CENTERS (EMCC27-1 & EMCC27-2) SHALL CONTAIN FULL VOLTAGE NON-REVERSING STARTERS TO POWER LOAD LISTED BELOW:

EVF-1 TO EVF-4
4 - 15HP EMERGENCY VENTILATION FANS
(2 OPERATING, 2 STANDBY)
EEF-1 TO EEF-12
12 - 7.5HP EMERGENCY EXHAUST FANS
(12 OPERATING)
ESF-1 TO ESF-8
8 - 60HP EMERGENCY SUPPLY FANS
(4 OPERATING, 4 STANDBY)
2. MOTOR CONTROL CENTERS "EMCC27-1" AND "EMCC27-2" SHALL BE EQUIPPED BY PLCs (PROGRAMABLE LOGIC CONTROLLER).
3. MOTOR RATED 50 HP AND ABOVE SHALL BE SOFT STARTER.
4. ALL SMOKE EXHAUST FANS SHALL BE EQUIPPED WITH SOFT STARTER.
5. ALL SMOKE FANS SYSTEM SHALL BE STARTED-UP IN STAGGERED SEQUENCE (180 SECONDS) AS NFPA REQUIRES.

EMERGENCY MOTOR CONTROL CENTER "EMCC27-1"
LOCATED IN ELEC RM #1



EMERGENCY MOTOR CONTROL CENTER "EMCC27-2"
LOCATED IN ELEC RM #2



Santa Clara Valley Transportation Authority


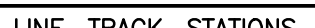
NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

Jun 20, 2013 4:43pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E414.dwg

					DESIGNED BY G. LALWANI			Skanska Shimmick Herzog		1436 California Circle Milpitas, California 95035 A Joint Venture			LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION 480V POWER DISTRIBUTION SINGLE LINE DIAGRAM SHEET 4 OF 4				CADD FILENAME C700-S-DB-E414.dwg	
					DRAWN BY G. MARAVILLA												SIZE SCALE D NONE	
					CHECKED BY L. CHEN												CONTRACT NO. C700	
					IN CHARGE R. BARLAAN												REV. 0	
0 20130710					READINESS FOR CONSTRUCTION												AREA CODE SHEET NO. PAGE NO. DB E414 0911	
REV DATE BY SUB APP					DESCRIPTION				SUBMITTED		APPROVED							



NOTES

1. DISTRIBUTION PANEL SHALL BE MOUNTED ON CHANNELS/UNISTRUT BEHIND THE WALL PANELS AND SHALL NOT BE SUPPORTED BY THE WALL PANELS.
2. USE #12 AWG FOR ALL BRANCH CIRCUIT WIRING UNLESS OTHERWISE NOTED.
3. MOUNT ROOF TOP WEATHER PROTECTED GFI RECEPTACLE 6" ABOVE ROOF SURFACE ON PARAPET FACE. SEAL CONDUIT PENETRATION.
4. INSTALL JUNCTION BOX AND DUPLEX RECEPTACLE ABOVE CEILING.
5. INSTALL ALL DUPLEX RECEPTACLES ABOVE COUNTER ON BACKSPLASH UNLESS OTHERWISE NOTED.
6. MINIMUM SIZE OF CONDUIT SHALL BE 3/4" DIA FOR ABOVE SURFACE AND 1" DIA FOR EMBEDDED CONDUIT.
7. SEE ARCHITECTURAL DRAWING FOR LIGHTING DESIGN AND DIMMING REQUIREMENTS.
8. DEDICATED DUPLEX RECEPTACLE INSTALLED UNDER COUNTER AND CONTROLLED BY SWITCH ABOVE COUNTER FOR PORTABLE HEATER USE.
9. THE MOUNTING OF THE SAB PANEL UNDER THE COUNTER IS CODE COMPLIANT OTHERWISE PANEL SHALL BE MOUNTED INSIDE A ROOM TBD CLOSEST TO THE SAB.
10. VERIFY VOLTAGE PRIOR TO INSTALLATION.

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)

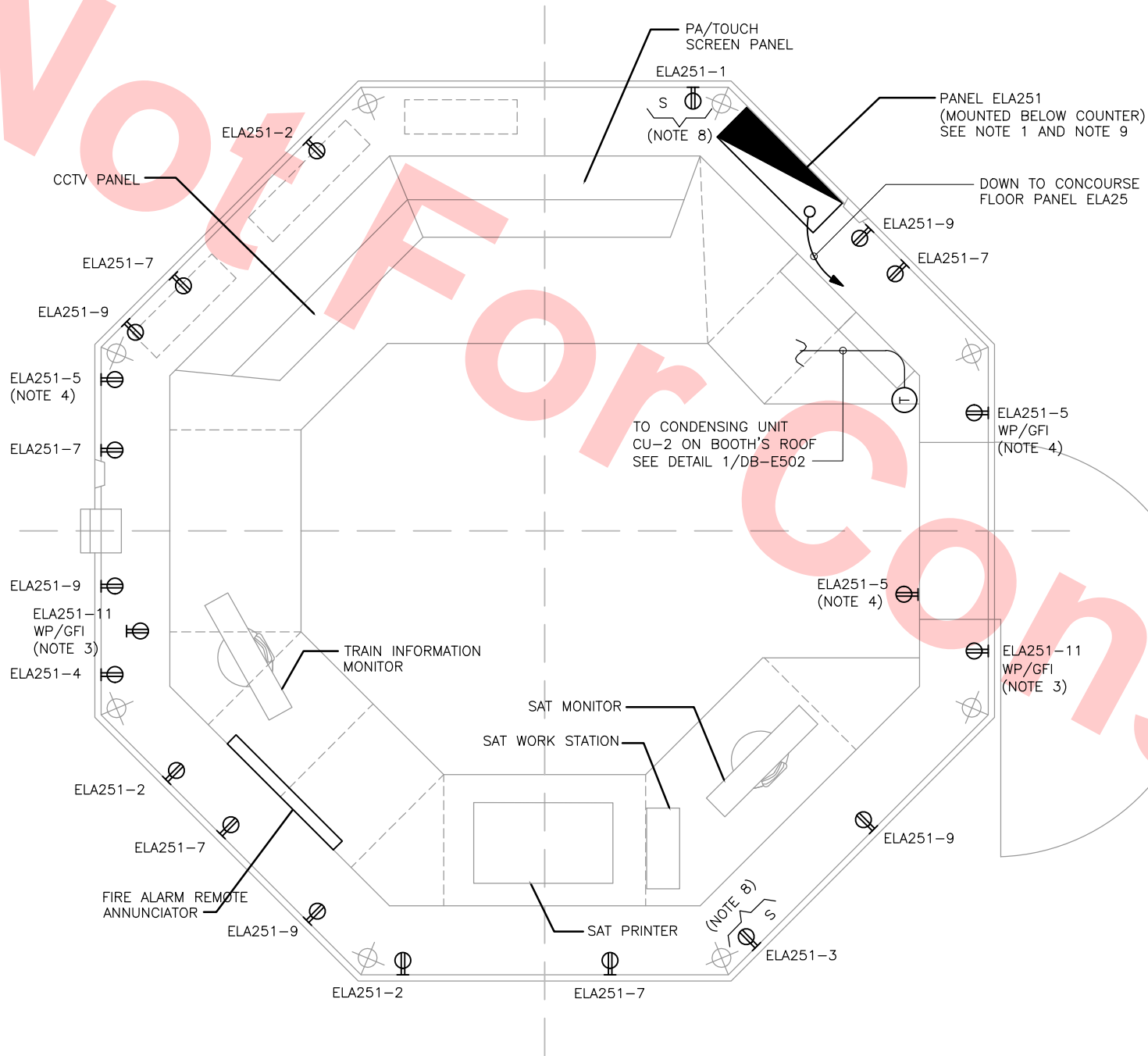
MAKE CORRECTIONS NOTED (MCN)

AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: Date:



STATION AGENT'S BOOTH – ELECTRICAL PLAN AND DETAIL
SCALE: 1"=1'-0"



Jun 21, 2013 4:45pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E501.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



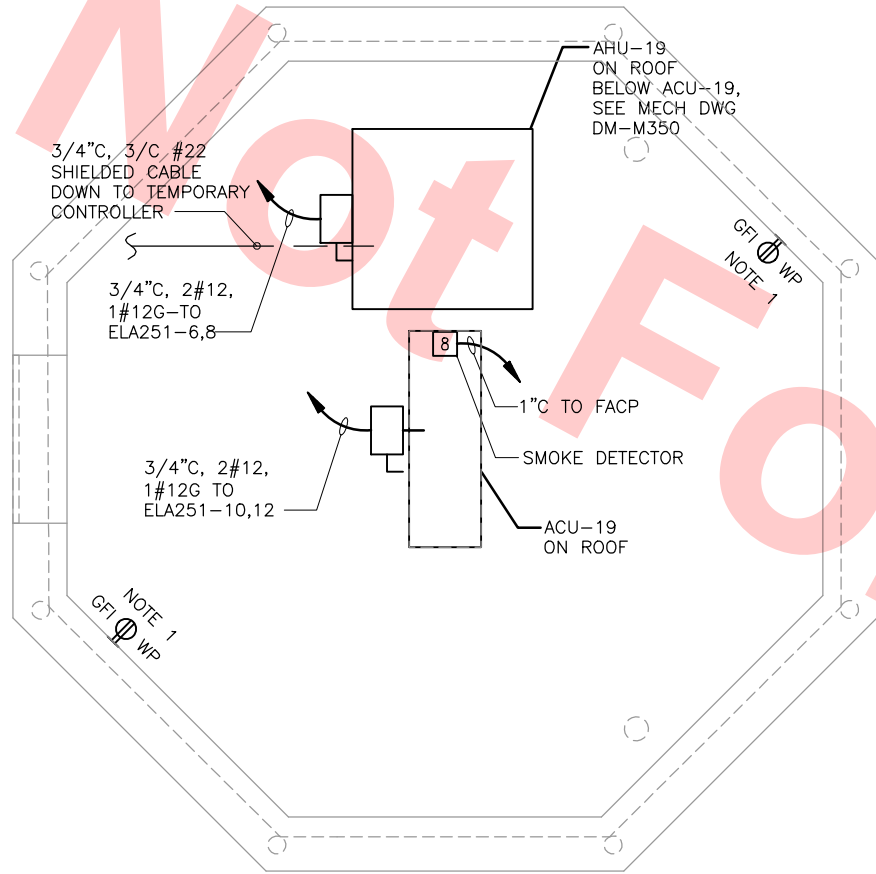
LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
STATION AGENT'S BOOTH
ELECTRICAL PLAN AND DETAIL
SHEET 1 OF 2

CADD FILENAME	C700-S-DB-E501.dwg
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REV.	0
AREA CODE	DB
SHEET NO.	E501
PAGE NO.	0912



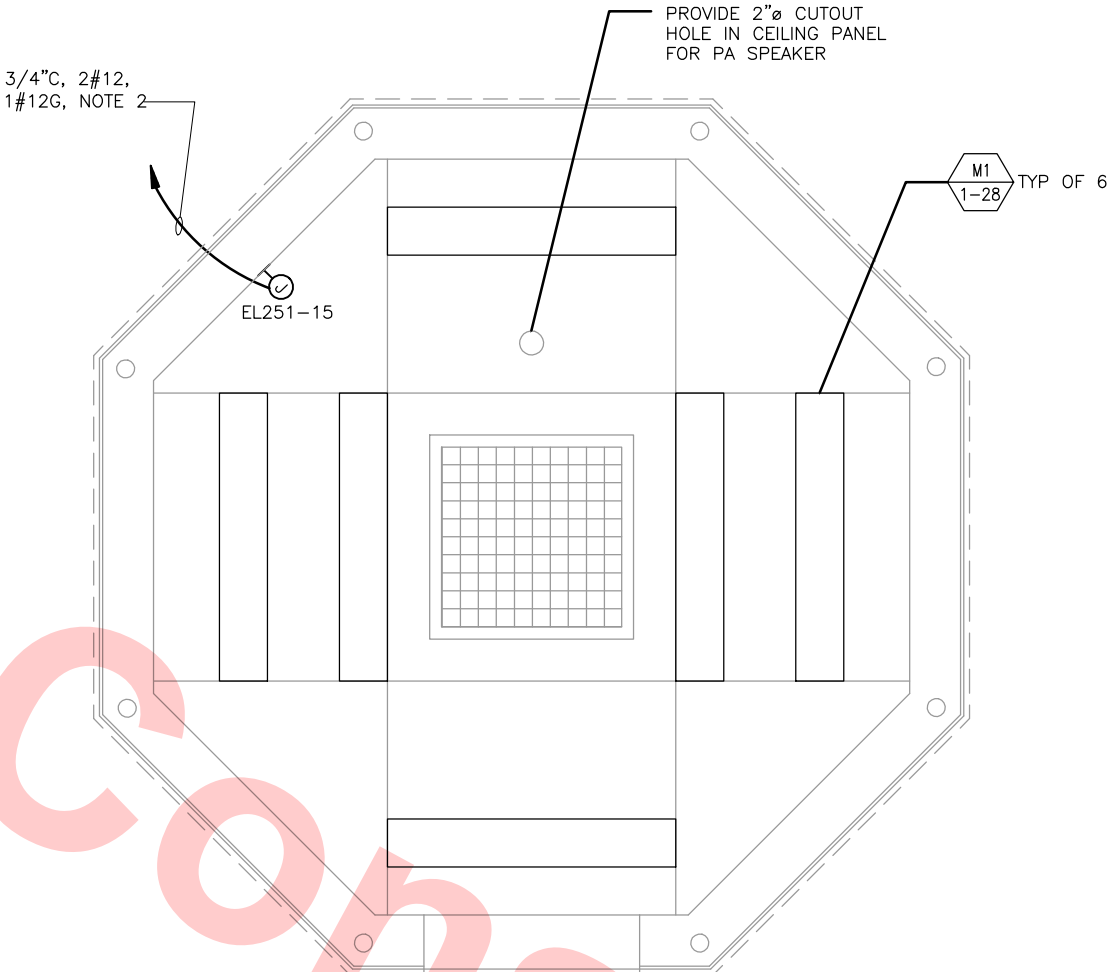
NOTES

- 1. MOUNT RECEPTACLES IN PARAPET, 12" ABOVE ROOF FLOOR, SEAL PENETRATION THROUGH ROOF.
- 2. DOOR TO CONCOURSE LEVEL, PANEL EL251-15 FOR LIGHTING POWER.



ROOF POWER PLAN

DETAIL 1
SCALE: NTS DB-E502



LIGHTING PLAN

DETAIL 2
SCALE: NTS DB-E502

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: Date:

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REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Submitted by
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Approved by
Lookwood, Andrews & Newman, Inc.
T-Y-LIN INTERNATIONAL
A LEO A DALY COMPANY

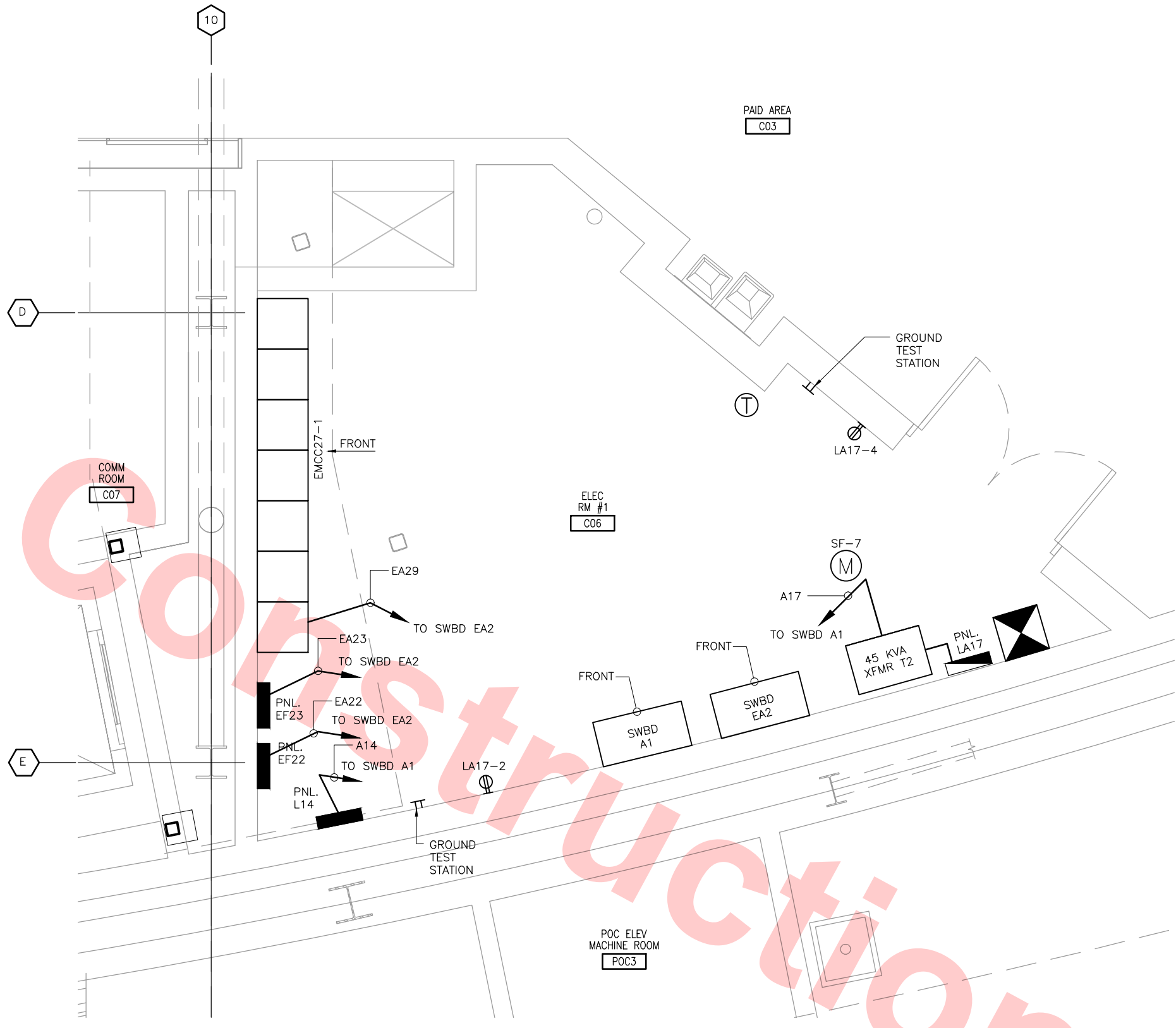


LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
STATION AGENT'S BOOTH
ELECTRICAL PLAN AND DETAIL
SHEET 2 OF 2

CADD FILENAME C700-S-DB-E502.dwg	SIZE D	SCALE NONE
CONTRACT NO. C700	REVISION 0	
AREA CODE DB	SHEET NO. E502	PAGE NO. 0913



Not For Construction



Santa Clara Valley Transportation Authority

___NO EXCEPTIONS TAKEN (NET)
___MAKE CORRECTIONS NOTED (MCN)
___AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

ELEC RM #1/CONCOURSE LEVEL

ENLARGED PLAN

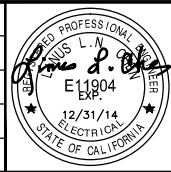
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REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E315, REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Submitted by
[Signature]
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Skanska
Shimmick
Herzog

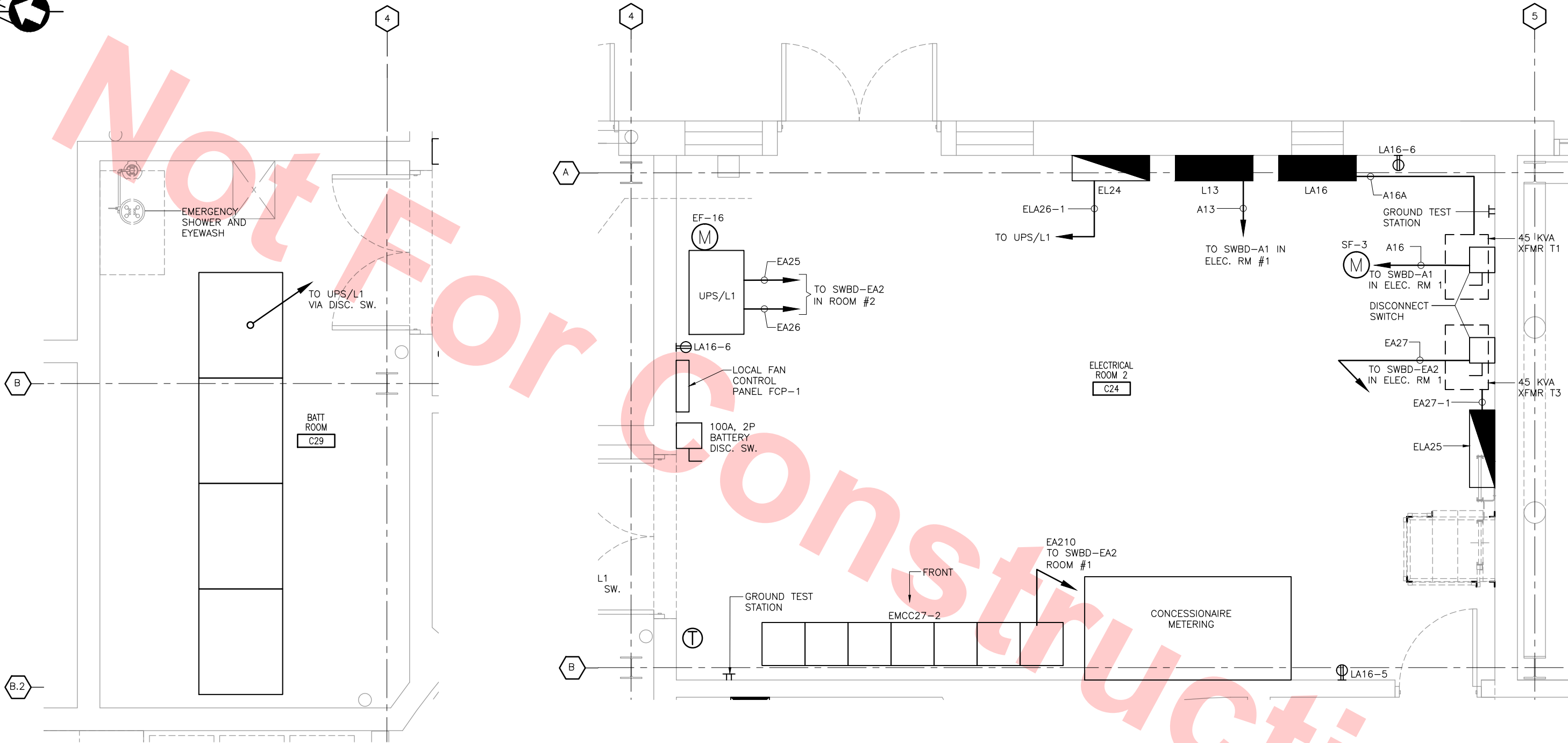
1436 California Circle
Milpitas, California 95035
A Joint Venture

Lookwood, Andrews
& Newman, Inc.
T-Y-LIN INTERNATIONAL
APPROVED
[Signature]



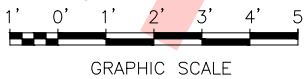
LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
ELECTRICAL ROOM LAYOUT
SHEET 1 OF 3

CADD FILENAME C700-S-DB-E503.dwg	CONTRACT NO. C700	REV. 0
SIZE D	SCALE 1/2"=1'-0"	AREA CODE DB
SHEET NO. E503	PAGE NO. 0914	



UPS/BATTERY RM
ENLARGED PLAN 1
SCALE: SCALE: 1/2"=1'-0"

ELEC RM #2/CONCOURSE LEVEL
ENLARGED PLAN 2
SCALE: SCALE: 1/2"=1'-0"



Santa Clara Valley Transportation Authority

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___ AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

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REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-E312, REV. 0

DESIGNED BY G. LALWANI	
DRAWN BY G. MARAVILLA	
CHECKED BY L. CHEN	
IN CHARGE R. BARLAAN	
DATE 20130710	



Skanska
Shimmick
Herzog

Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture

Lookwood, Andrews
& Newman, Inc.
A LEAD & BALLY COMPANY

T-Y-LIN INTERNATIONAL

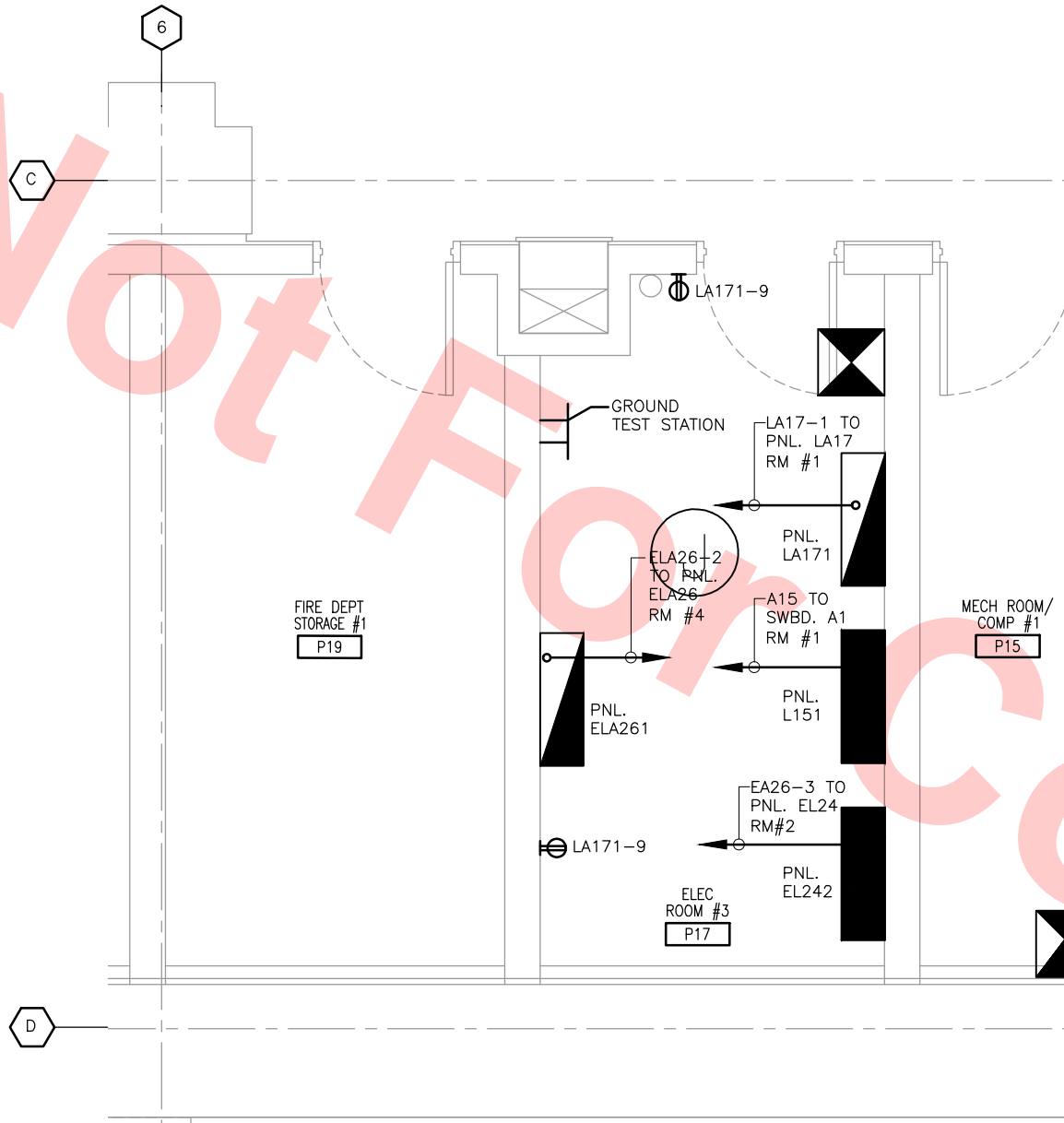
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION

ELECTRICAL ROOM LAYOUT
SHEET 2 OF 3

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SIZE SCALE D 1/2"=1'-0"	
CONTRACT NO. C700	
AREA CODE DB	SHEET NO. E504
PAGE NO. 0915	



ELEC RM #3/PLATFORM #1 LEVEL

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

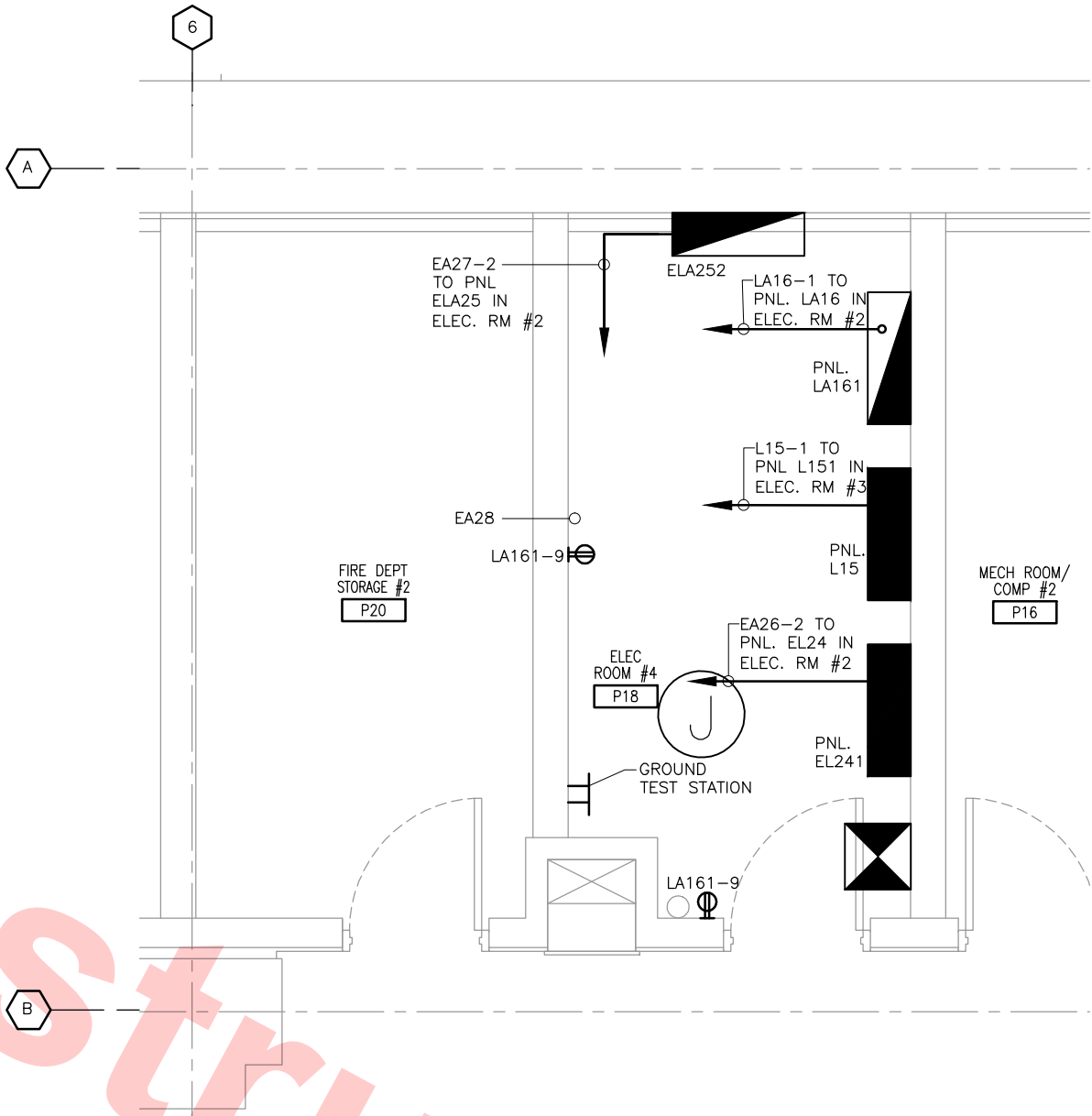
Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
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Contract No.: DB11002F

By: Date:



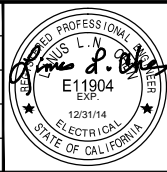
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ENLARGED PLAN 2
SCALE: SCALE: 1/2"=1'-0"

Jun 20, 2013 4:03pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E505.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700-DB-302, REV. P

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2339
SUBMITTED

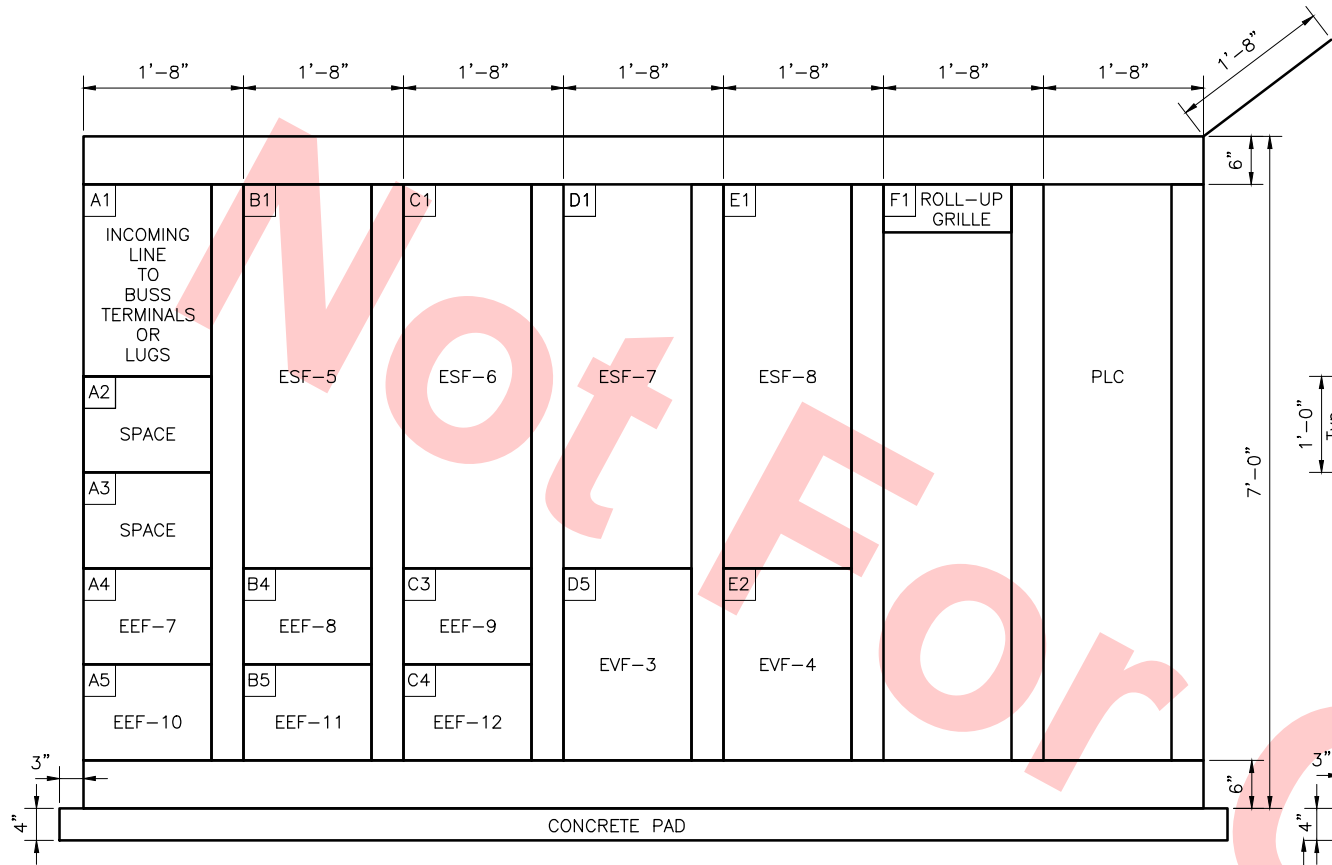
1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
ELECTRICAL ROOM LAYOUT
SHEET 3 OF 3

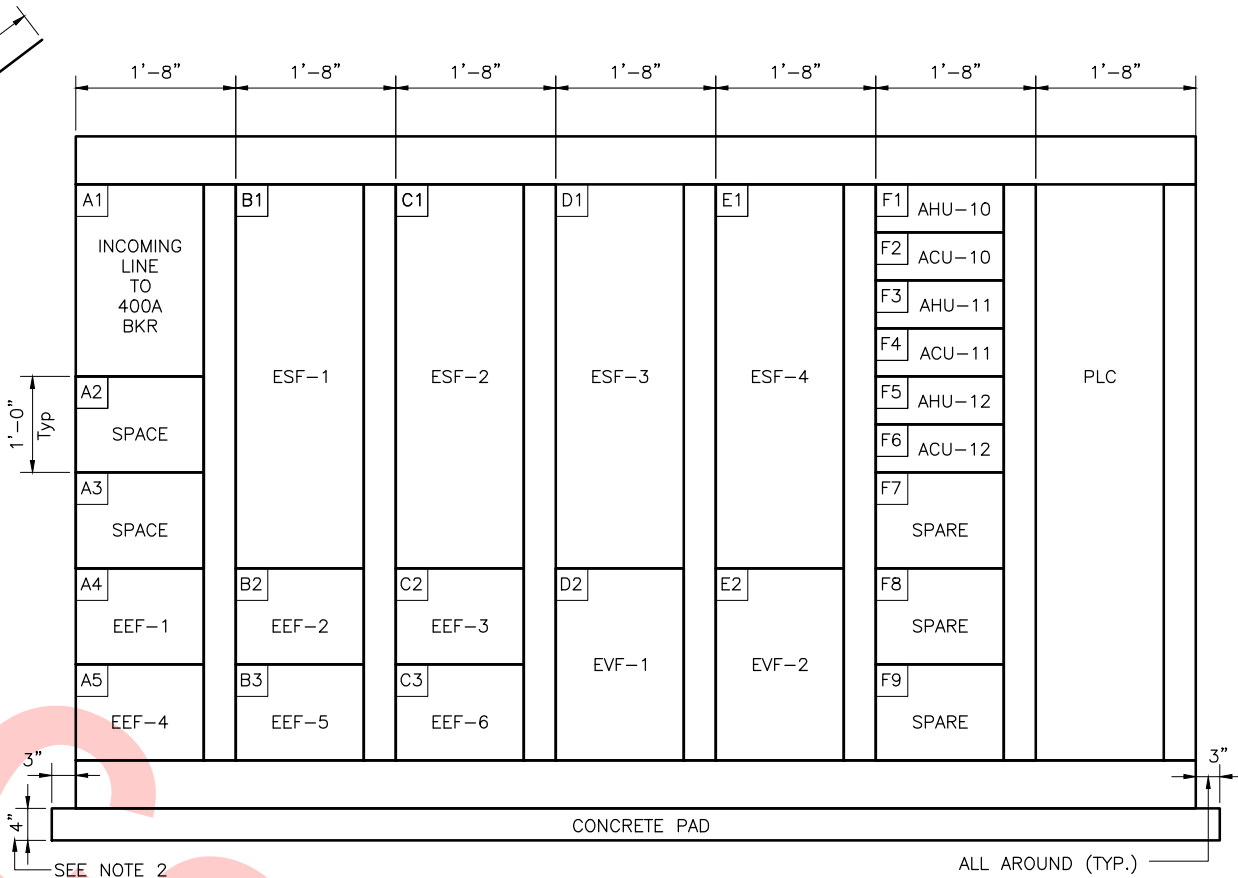
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AREA CODE DB	SHEET NO. E505	PAGE NO. 0916		

Jun 21, 2013 4:58pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E510.dwg



EMERGENCY MOTOR CONTROL CENTER "EMCC27-1"
(LOCATED IN ELEC. RM. #1, DWG. DB-E503) – ELEVATION

SCALE: NTS



EMERGENCY MOTOR CONTROL CENTER "EMCC27-2"
(LOCATED IN ELEC. RM. #2, DWG. DB-E504) – ELEVATION

SCALE: NTS

NOTES

- FOR EMCC27-1 AND EMCC27-2, SEE SINGLE LINE DIAGRAM, SEE DRAWING E414 FOR BREAKER RATING.
- PROVIDE 4" HIGH HOUSEKEEPING CONCRETE PAD FOR UNDER ALL FLOOR MOUNTED MOTOR CONTROL CENTERS. COORDINATE WITH EQUIPMENT MANUFACTURER'S SHOP DRAWINGS CONCERNING SIZE OF PAD, LOCATION AND SIZE OF BOLTS. INSERT ANCHOR BOLTS INTO BASE SLAB AS REQUIRED FOR EQUIPMENT STABILITY AGAINST OPERATING CONDITIONS AND SEISMIC EFFECTS. POUR CEMENT GROUT AFTER EQUIPMENT HAS BEEN LEVELED. ALL HOUSEKEEPING PADS SHALL BE REINFORCE WITH NO. 4 BARS AT 12" ON CENTER EACH WAY AT MID-HEIGHT OF PAD.
- MOTOR CONTROL CENTERS EMCC227-1 AND EMCC227-2 CONTAINS ONLY FEEDER BREAKERS FOR FANS AND POWERS VFDs (VARIABLE FREQUENCY DRIVES) LOCATED NEAR EACH FAN.

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: Date:

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Submitted by
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 855-2537 Fax: (510) 535-2339

Approved by
Lockwood, Andrews & Newnam, Inc.
A LEI A BALLY COMPANY
T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
MCC ELEVATIONS

CADD FILENAME C700-S-DB-E510.dwg	SIZE D	SCALE NONE
CONTRACT NO. C700	SHEET NO. E510	REV. 0
AREA CODE DB	PAGE NO. 0917	

Jun 20, 2013 4:43pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E515.dwg

IDENTIFICATION	TYPE	DESCRIPTION	VOLTAGE	MFR CAT NUMBER	INPUT POWER (VA)	REMARK & MOUNTING
M1 1-28	FLUORESCENT	6"x4' PENDANT-MOUNTED LINEAR FLUOR. DOWNLIGHT (3)28-WATT LINEAR FLUORESCENT T5 PHILIPS LAMP OR EQUAL	277V	CUSTOMIZED PER BART SPEC	80	INTEGRATED INTO SLPA
M2 1-70	METAL HALLIDE	6" APERTURE RECESSED-MOUNTED METAL HALIDE ADJUSTABLE ACCENT LIGHT (1)70-WATT METAL HALIDE T6 PHILIPS LAMP OR EQUAL	277V	LIGHTOLIER C6T6ACCDP-MHT6RF- C6A70T6EZ OR EQUAL	85	PLATFORM
M3 4-28	FLUORESCENT	4" DIAMETER RECESSED-MOUNTED LINEAR FLUORESCENT WHITE ACRYLIC DOME (4)28-WATT LINEAR FLUORESCENT T5 PHILIPS LAMP OR EQUAL	277V	FOCAL POINT FSD44D4T5E- U-R-SC-HW OR EQUAL	120	PLATFORM
M4A 2-54	FLUORESCENT	6"x4' PENDANT-MOUNTED LINEAR FLUORESCENT STRIP LIGHT WITH REFLECTOR & GUARD (2)54-WATT LINEAR FLUORESCENT T5HO PHILIPS LAMP OR EQUAL	277V	HE WILLIAMS 84-4-254T5H- WG14-EB2-277 OR EQUAL	130	MTG 12'-0" AFF
M4B 4-54	FLUORESCENT	6"x8' PENDANT-MOUNTED LINEAR FLUORESCENT STRIP LIGHT WITH REFLECTOR & GUARD (4)54-WATT LINEAR FLUORESCENT T5HO PHILIPS LAMP OR EQUAL	277V	HE WILLIAMS 84-8-454T5H- WG14-EB2-277 OR EQUAL	260	
M4C 2-54	FLUORESCENT	6"x4' SURFACE-MOUNTED LINEAR FLUORESCENT STRIP LIGHT WITH REFLECTOR & GUARD (2)54-WATT LINEAR FLUORESCENT T5HO PHILIPS LAMP OR EQUAL	277V	HE WILLIAMS 84-4-254T5H- WG14-EB2-277 OR EQUAL	130	
M4D 4-54	FLUORESCENT	6"x8' SURFACE-MOUNTED LINEAR FLUORESCENT STRIP LIGHT WITH REFLECTOR & GUARD (4)54-WATT LINEAR FLUORESCENT T5HO PHILIPS LAMP OR EQUAL	277V	HE WILLIAMS 84-8-454T5H- WG14-EB2-277 OR EQUAL	260	
M5 1-150	METAL HALLIDE	WALL-MOUNTED METAL HALIDE AREA LIGHT (1)150-WATT METAL HALIDE ED17 PHILIPS LAMP OR EQUAL	277V	GARDCO 101-WT-150MH-277 -FINISH OR EQUAL	200	PLATFORM OPEN AREAS MTG 12'-0" AFF
M6 1-70	METAL HALLIDE	6" SURFACE-MOUNTED COMPACT METAL HALIDE CYLINDER DOWNLIGHT, WIDE BEAM SPREAD (1)70-WATT COMPACT METAL HALIDE T6 PHILIPS LAMP OR EQUAL	277V	LIGHTOLIER C6T6VNCCD-C6CS70T6E2 OR EQUAL	85	CONCOURSE STAIRS
M7 1-54	METAL HALLIDE	6" SURFACE-MOUNTED COMPACT METAL HALIDE CYLINDER DOWNLIGHT, NARROW BEAM SPREAD (1)70-WATT COMPACT METAL HALIDE T6 PHILIPS LAMP OR EQUAL	277V	LIGHTOLIER C6T6VNCCD-C6CS70T6E2 OR EQUAL	85	CONCOURSE STAIRS
M9 2-54	FLUORESCENT	2'x4' RECESSED-MOUNTED LINEAR FLUORESCENT UPLIGHT/DOWNLIGHT (2)54-WATT LINEAR FLUORESCENT T5HO PHILIPS LAMP OR EQUAL	277V	LIGHTOLIER CFS2-CEILING TYPE-P-W -2-54-277-PG OR EQUAL	130	
M10 2-28	FLUORESCENT	2'x4' RECESSED-MOUNTED LINEAR FLUORESCENT LENSED TROFFER (2)28-WATT LINEAR FLUORESCENT T5 PHILIPS LAMP OR EQUAL	277V	HE WILLIAMS 50-S24-228T5S-S-A12125 -EB2-277 OR EQUAL	80	
M12 1-70	METAL HALLIDE	WALL-MOUNTED COMPACT METAL HALIDE DIRECT/INDIRECT SCONCE (1)70-WATT COMPACT METAL HALIDE T6 PHILIPS LAMP OR EQUAL	277V	BEGA 6620MH OR EQUAL	85	EXTERIOR TRELLIS
M13 1-400	METAL HALLIDE	TRUSS -MOUNTED METAL HALIDE UPLIGHT (1)400-WATT METAL HALIDE ED28 PHILIPS LAMP OR EQUAL	277V	ELLIPTIPAR M-103-0400-MOUNTING-FINISH-B-00-0 OR EQUAL	480	CONCOURSE
M14 1-70	METAL HALLIDE	WALL-MOUNTED COMPACT METAL HALIDE ADJUSTABLE ACCENT LIGHT (1)70-WATT METAL HALIDE PAR 30 PHILIPS LAMP OR EQUAL	277V	RSA LIGHTING CGWA-24-A-FINISH- REMOTE BALLAST OR EQUAL	80	CONCOURSE
M15 1-70	METAL HALLIDE	6" TRUSS-MOUNTED COMPACT METAL HALIDE ADJUSTABLE ACCENT LIGHT (1)70-WATT COMPACT METAL HALIDE PAR 30 PHILIPS LAMP OR EQUAL	277V	LUMIERE 730-MH70PAR30-277-ELMSM-FINISH-LVR-30 OR EQUAL	90	CONCOURSE
M16A 2-54	FLUORESCENT	6"x4' PENDANT-MOUNTED LINEAR FLUORESCENT STRIP LIGHT WITH REFLECTOR (2)54-WATT LINEAR FLUORESCENT T5HO PHILIPS LAMP OR EQUAL	277V	HE WILLIAMS 84-4-254T5H- WG14-EB2-277 OR EQUAL	130	

IDENTIFICATION	TYPE	DESCRIPTION	VOLTAGE	MFR CAT NUMBER	INPUT POWER (VA)	REMARK & MOUNTING
M17 1-70	METAL HALIDE	6" COLUMN-MOUNTED COMPACT METAL HALIDE ADJUSTABLE ACCENT LIGHT (1)70-WATT COMPACT METAL HALIDE PAR 30 PHILIPS LAMP OR EQUAL	277V	LUMIERE 730-MH70PAR30-277-ELMSM-FINISH-LVR-30 OR EQUAL	90	CONCOURSE
M18 1-70	METAL HALLIDE	6"STRUCTURE-MOUNTED COMPACT METAL HALIDE ADJUSTABLE ACCENT LIGHT (1)70-WATT COMPACT METAL HALIDE PAR 30 PHILIPS LAMP OR EQUAL	277V	LUMIERE 730-MH70PAR30-277-ELMSM-FINISH-LVR30 OR EQUAL	90	CONCOURSE ENTRY
M19 1-54	FLUORESCENT	6"x4' SURFACE-MOUNTED LINEAR FLUORESCENT STRIP LIGHT WITH LENS (1)54-WATT LINEAR FLUORESCENT T5HO PHILIPS LAMP OR EQUAL	277V	HE WILLIAMS 92-4-154T5H-A-WET/2- -EB1-277 OR EQUAL	65	CONCOURSE TVMS
M20 1-70	METAL HALIDE	LUMINOUSE - COLUMN METAL HALIDE AREA LIGHT (1) 70-WATT METAL HALIDE T6 PHILIPS OR EQUAL	277V	LUMEC OV2-70MH-277-LH6-11-PH-FINISH OR EQUAL	100	OUTDOOR PLAZA
M21 1-175	METAL HALIDE	POLE MOUNTED METAL HALIDE AREA LIGHT (1)175-WATT METAL HALIDE T6 PHILIPS LAMP OR EQUAL	277V	HESS CC450-175-M-7-A-16RS-*_* OR EQUAL	200	CAMPUS
M22 1-39	METAL HALIDE	6" IN GRADE COMPACT METAL HALIDE ADJUSTABLE ACCENT LIGHT	277V	LUMIERE 730-MH39PAR30-277-ELMB-FINISH-LVR-30 OR EQUAL		LANDSCAPE PLANTER
M23 1-39	METAL HALIDE	6" IN GRADE COMPACT METAL HALIDE ADJUSTABLE ACCENT LIGHT	277V	LUMIERE 730-MH39PAR30-277-ELMB-FINISH-LVR-30 OR EQUAL		LANDSCAPE PLANTER
M24 2-32	FLUORESCENT	10" OPEN CYLINDER WITH 6" SEMI SPECULAR REFLECTOR HORIZONTAL POSITION	277V	GOTHAM LIGHTING CLED9-35/22-8ARLS		-
M25 2-42	FLUORESCENT	9" APERTURE WALL-MOUNTED COMPACT FLUORESCENT DOWNLIGHT (2)42-WATT	277V	GARDCO LIGHTING 101-WT-242TRF-277-*_* OR EQUAL	85	
M26 LED	LED	0.75"WIDE X0.75" TALL HANDRAIL-MOUNTED LED DOWNLIGHT ()-WATT LED	277V	ID LIGHTING 0-06-FINISH-2-PM-C-25-WHITE-LENGTH-2-1 OR EQUAL	15	POC HANDRAIL
M27 1-42	FLUORESCENT	8" APERTURE OPEN DOWNLIGHT 42TRT	277V			

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

						DESIGNED BY G. LALWANI		 1436 California Circle Milpitas, California 95035 A Joint Venture	 T-Y-LIN INTERNATIONAL		LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION	CADD FILENAME C700-S-DB-E515.dwg		
					DRAWN BY G. MARAVILLA	SIZE D						SCALE NONE		
					CHECKED BY L. CHEN	CONTRACT NO.						C700	0	
					IN CHARGE R. BARLAAN	AREA CODE						SHEET NO.	DB	E515
0	20130710				READINESS FOR CONSTRUCTION	DATE 20130710	SUBMITTED		APPROVED		LIGHTING FIXTURE SCHEDULE SHEET 1 OF 2			

Jun 20, 2013 4:03pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E516.dwg

IDENTIFICATION	TYPE	DESCRIPTION	VOLTAGE	MFR CAT NUMBER	INPUT POWER (VA)	REMARK & MOUNTING
M28 2-54	FLUORESCENT	6"x4' PENDANT-MOUNTED LINEAR FLUORESCENT STRIP LIGHT WITH REFLECTOR (2)54-WATT LINEAR FLUORESCENT T5HO PHILIPS LAMP OR EQUAL	277V	HE WILLIAMS 84-4-254T5H- WG14-EB2-277 OR EQUAL	130	
M29 1-70	METAL HALIDE	6" WALL-MOUNTED COMPACT METAL HALIDE DOWNLIGHT (1)70-WATT COMPACT METAL HALIDE PAR 30 PHILLIPS OR EQUAL	277V	LUMIERE 715-MH70PAR30- *-*-OSL-30- LVR-30 OR EQUAL	90	POC GROUND LEVEL
M30 1-39	METAL HALIDE	6" WALL-MOUNTED COMPACT METAL HALIDE DOWNLIGHT (1)39-WATT COMPACT METAL HALIDE PAR 30 PHILLIPS OR EQUAL	277V	LUMIERE 715-MH39PAR30- *-*-OSL-30- LVR-30 OR EQUAL	50	POC BRIDGE LEVEL
M31 3-28	FLUORESCENT	6"x12' LONG WALL-MOUNTED LINEAR FLUORESCENT UPLIGHT (3)28-WATT LINEAR FLUORESCENT T5 PHILIPS LAMP OR EQUAL	277V	ELLIPTIPAR F105-T228- MOUNTING-FINISH- 2-V00 OR EQUAL	110	
M32 2-54	FLUORESCENT	6"x4' SURFACE-MOUNTED LINEAR FLUORESCENT STRIP LIGHT WITH LENS (2)54-WATT LINEAR FLUORESCENT T5HO PHILIPS LAMP OR EQUAL	277V	HE WILLIAMS 92-4-254T5H-A-WET/2 -EB1-277 OR EQUAL	130	UNDERFLOOR CHASE
M33 2-32	FLUORESCENT	2'x4' RECESSED-MOUNTED LINEAR FLUORESCENT SECURE ACCESS LENSED TROFFER (2)32-WATT LINEAR FLUORESCENT T5 PHILIPS OR EQUAL	277V	KENALL HASEF124-2-F54TSHO- EB-1-277-FRAME- HOUSING-1 OR EQUAL	130	SECURE INTERVIEW ROOM
MX1 1-5	LED	SINGLE FACE EXIT SIGN, CAST ALUMINUM HOUSING CLEAR U-V STABLE POLY CARBONATE COVER WITH UNIVERSAL DIRECTIONAL CHEVRON KNOCKOUTS, LED LAMPS, WHITE ON WHITE FACEPLATE/HOUSING COLOR GREEN COLOR LETTERING, DUAL VOLTAGE RATED OR EQUAL	120/ 277V		5	
MX2 1-5	LED	SAME AS MX1 EXCEPT DOUBLE FACE OR EQUAL	120/ 277V		5	
M1EM 1-28	FLUORESCENT	SAME AS M1 EXCEPT FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY PACK	277V		40	
M2EM 1-70	METAL HALIDE	SAME AS M2 EXCEPT FIXTURE TO BE PROVIDED WITH QUARTZ RESTRIKE	277V		85	
M4AEM 2-54	FLUORESCENT	SAME AS M4A EXCEPT FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY PACK	277V		130	
M4BEM 4-54	FLUORESCENT	SAME AS M4B EXCEPT FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY PACK	277V		260	
M4DEM 4-54	FLUORESCENT	SAME AS M4D	277V		260	
M6EM 2-32	FLUORESCENT	SAME AS D4	277V		70	
M6EM 1-70	METAL HALIDE	SAME AS M6 EXCEPT FIXTURE TO BE PROVIDED WITH QUARTZ RESTRIKE	277V		85	
M7EM 1-70	METAL HALIDE	SAME AS M7 EXCEPT FIXTURE TO BE PROVIDED WITH QUARTZ RESTRIKE	277V		85	

IDENTIFICATION	TYPE	DESCRIPTION	VOLTAGE	MFR CAT NUMBER	INPUT POWER (VA)	REMARK & MOUNTING
M9EM 2-54	FLUORESCENT	SAME AS M9 EXCEPT FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY PACK	277V		130	
M10EM 2-28	FLUORESCENT	SAME AS M10 EXCEPT FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY PACK	277V		70	
M16AEM 2-54	FLUORESCENT	SAME AS M16A EXCEPT FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY PACK	277V		130	
M32EM 2-54	FLUORESCENT	SAME AS M32 EXCEPT FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY PACK	277V		130	
M34A 1-28	FLUORESCENT	1' X 4' LINEAR DOWNLIGHT LENSED TROFFER (1) 28T5S PHILLIPS OR EQUAL	277V	HE WILLIAMS 50-F-S-1-4-128T5S -S-A-A12125-EB2-277	35	RECESSED
M34B 2-28	FLUORESCENT	1' X 4' LINEAR DOWNLIGHT LENSED TROFFER (1) 28T5S PHILLIPS OR EQUAL	277V	HE WILLIAMS 50-F-S-1-4-228T5S -S-A-A12125-EB2-277	70	RECESSED
M35A 3-54	FLUORESCENT	1' X 4' LINEAR DOWNLIGHT LENSED TROFFER (2) 54T5H PHILLIPS OR EQUAL	277V	HE WILLIAMS 50-F-S-1-4-254T5S -S-A-A12125-EB2-277	135	RECESSED
M36 3-28	FLUORESCENT	2' X 4' LINEAR DOWNLIGHT LENSED TROFFER (3) 28T5S PHILLIPS OR EQUAL	277V	HE WILLIAMS 50-F-S-2-4-328T5S -S-A-A12125-EB2-277	105	RECESSED
M37 2-32	FLUORESCENT	4' LINEAR FLUORESCENT WET LOCATION SURFACE MOUNTED LIGHT FIXTURE. (2) F32T8, W/ ELECTRONIC BALLAST AND OPTIONAL BATTERY PACK FOR EMERGENCY UNITS.	277V	LITHONIA EIS-2-32-PCL-277 -GEB10IS-STSW -FL14DW (OPTIONAL)	95	RECESSED
M38 2-42	LED	2' X 4' LINEAR DOWNLIGHT LENSED TROFFER (3) 28T5S PHILLIPS OR EQUAL	277V	HE WILLIAMS 50-F-S-2-4-328T5S -S-A-A12125-EB2-277	105	RECESSED
M39 3-28	FLUORESCENT	2' X 4' LINEAR DOWNLIGHT LENSED TROFFER (3) 28T5S PHILLIPS OR EQUAL	277V	HE WILLIAMS 50-F-S-2-4-328T5S -S-A-A12125-EB2-277	105	RECESSED
M40 2-26	FLUORESCENT	10" APERTURE OPEN DOWNLIGHT WITH 6" SEMI REFLECTOR	277V	GOTHAM LIGHTING		
M41 1-150	METAL HALIDE	TRUSS-MOUNTED METAL HALIDE UPLIGHT. 1-150W	277V	LITHONIA	150	

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

DESIGNED BY G. LALWANI	
DRAWN BY G. MARAVILLA	
CHECKED BY L. CHEN	
IN CHARGE R. BARLAAN	
DATE 20130710	

0	20130710				READINESS FOR CONSTRUCTION
REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY
G. LALWANI

DRAWN BY
G. MARAVILLA

CHECKED BY
L. CHEN

IN CHARGE
R. BARLAAN

DATE
20130710



Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 855-2537 Fax: (510) 535-2339

Lockwood, Andrews
& Newnam, Inc.
A LEED A BALLY COMPANY

T-Y-LIN INTERNATIONAL

APPROVED _____



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION

LIGHTING FIXTURE SCHEDULE
SHEET 2 OF 2

CADD FILENAME C700-S-DB-E516.dwg	
SIZE D	SCALE NONE
CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. E516
	PAGE NO. 0919

Jun 21, 2013 4:38pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E520.dwg

LOCATION: ELEC RM#2 (Concourse Level, Col. A/4.5)							PANEL L13 NORMAL			MOUNTING: SURFACE				
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO
				A	B	C		A	B	C				
1	20	1	(6) M6, COL 6-7/A-B.5	510				1190			(15) M12, NORTH PARAPET LIGHTS	1	20	2
3	20	1	(7) M6, COL 7.6-9.3/A-B		595				650		(5) M4A, STAIR VENT RM. M02	1	20	4
5	20	1	(8) M6, COL 10-12.5/A-B.5			765			650		(5) M4A, STAIR VENT RM. M04	1	20	6
7	20	1	(5) M13, COL 7-10/A-B.5	2400				6691			AHU-12	3	35	8
9	20	1	(8) M17, COL 8-9/A-B.5		720			6691			-----	-	-	10
11	20	1	SPARE						6691		-----	-	-	12
13	20	1	TRAIN CONTROL/COMM. RM. C18	1690							SPARE	1	20	14
15	20	1	RMS. C22, C23, C46, C26-C29		3210						(11) M25 SOUTH PERIMETER LIGHTS	1	20	16
17	20	1	RMS C15, C25, C16, C19			2600					(9) M25 NORTH PERIMETER LIGHTS	1	20	18
19	20	1	SPARE					2310			ACU-12	3	20	20
21	20	1	RMS C03, C37, C38, C45		2190				2310		-----	-	-	22
23	20	1	RMS C24, C41, C28, C32-C34, C01			2460			2310		-----	-	-	24
25	20	1	EWB-3, COL 3/B.4	6000				2018			AHU-10	3	25	26
27	20		SPARE						2018		-----	-	-	28
29	20		SPARE							2018	-----	-	-	30
31	25	3	AHU-11	2018				3984			ACU-10	3	25	32
33	-	-	-----		2018				3983		-----	-	-	34
35	-	-	-----			2018				3983	-----	-	-	36
37	25	3	ACU-11	3984				2310			ROLLING GRILLE C/02B	3	20	38
39	-	-	-----		3984				2310		-----	-	-	40
41	-	-	-----			3984				2310	-----	-	-	42
SUB TOTAL				16602	12717	11827		18503	17962	17962	SUB TOTAL			
VOLTAGE: 480/227V,3P,4W								35105	30679	29789	<div>Santa Clara Valley Transportation Authority</div> <div>NO EXCEPTIONS TAKEN (NET)</div> <div>MAKE CORRECTIONS NOTED (MCN)</div> <div>AMEND AND RESUBMIT (A/R)</div>			
MAINS: 225A MAIN LUGS ONLY														
MIN IC: 22,000A														
TOTAL 3 PHASE CONNECTED				95.57			KVA	114.9	AMPS					

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

LOCATION: ELEC RM#1 (Concourse Level, Col. D/10.5)							PANEL L14 NORMAL			By: _____ Date: _____		MOUNTING: SURFACE			
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO	
				A	B	C		A	B	C					
1	20	1	(6) M6, COL 6-7/B.5-D	510				1020			(12) M12, NORTH PARAPET LIGHTS	1	20	2	
3	20	1	(7) M6, COL 8-9.5/C-D		595				650		(5) M4A, STAIR VENT RM. M01	1	20	4	
5	20	1	(8) M6, COL 10-12.5/B.5-D			680			650		(5) M4A, STAIR VENT RM. M03	1	20	6	
7	20	1	(5) M13, COL 7-10/B.5-D	1440				3025			RMS C03, C06, C44, POC2, POC3, POC5	1	20	8	
9	20	1	(8) M17, COL 8-9/C		720				2615		RMS C01, C11, C12, C42, C10, C08	1	20	10	
11	20	1	(5) M6, (6)M2 COL 9.5-11.5/D-E.5			935					SPARE	1	20	12	
13	20	1	(16) M14, SKYLIGHT AREA LIGHTING	1280				796			ROLLING GRILLE C/02E	1	20	14	
15	20	1	SPARE						796		-----	1	20	16	
17	20	1	SPARE						796		-----	1	20	18	
19	20	1	SPARE								SPARE	1	20	20	
21	20	1	SPARE								SPARE	1	20	22	
23	20	1	SPARE								SPARE	1	20	24	
25	20	1	SPARE								SPARE	1	20	26	
27	20	1	SPARE								SPARE	1	20	28	
29	20	1	SPARE								SPARE	1	20	30	
31														32	
33														34	
35														36	
37														38	
39														40	
41														42	
SUB TOTAL				4190	1315	1615		4841	4061	1446	SUB TOTAL				
VOLTAGE: 480/227V,3P,4W							9031	5376	3061						
MAINS: 60A CB															
MIN IC: 22,000A				TOTAL 3 PHASE CONNECTED			17.47	KVA	21.01	AMPS					

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



SUBMITTED

APPROVED

Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Lockwood, Andrews
& Newnam, Inc.
A JOINT VENTURE

T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PANEL SCHEDULES
LIGHTING
SHEET 1 OF 5

CADD FILENAME
C700-S-DB-E520.dwg
SIZE SCALE
D NONE
CONTRACT NO.
C700
REV. 0
AREA CODE SHEET NO. PAGE NO.
DB E520 0920

LOCATION: ELEC RM#4 (Platform #2 Level, Col. A/6.5)							PANEL L15 NORMAL			MOUNTING: SURFACE				
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO
				A	B	C		A	B	C				
1	20	1	PLATFORM #2, TRACK LEVEL CHASE LIGHTING	1690				1320			NORTH SLPA ENCL (11 M1) LIGHTS	1	20	2
3	20	1	NORTH CONCOURSE STAIR & NORTH PLATFORM		980				1320		NORTH SLPA ENCL (11 M1) LIGHTS	1	20	4
5	20	1	NORTH PLATFORM COL. 4-8/A-B.5,STAIR #6			2065				1200	NORTH SLPA ENCL (10 M1) LIGHTS	1	20	6
7	20	1	NORTH PLATFORM (M36) COL. 4-8/A-B.5	2340				2880			NORTH SLPA ENCL (24 M1) LIGHTS	1	20	8
9	20	1	NORTH PLATFORM (M36) COL. 8-10/A-B.5		2880				2800		NORTH SLPA ENCL (24 M1) LIGHTS	1	20	10
11	20	1	NORTH PLATFORM (M5) COL. 17.5-23/A-B.5			1015				3000	NORTH SLPA ENCL (25 M1) LIGHTS	1	20	12
13	20	1	NORTH PLATFORM COL. 4-10.5/A-B.5	880				3000			EWH-2, COL 2.25/B	1	20	14
15	20	1	NORTH PLATFORM COL. 8-11/A-B.5		2740				3000		EWH-2, COL 8/A.5	1	20	16
17	20	1	NORTH PLATFORM COL. 12-17.5/A-B.5			1965				3000	EWH-2, COL 20.6/B	1	20	18
19	20	1	NORTH PLATFORM COL. 7.5-11/A-B.5	540							SPARE	1	20	20
21	20	1	NORTH PLATFORM COL. 7.5-11/A-B.5		540						SPARE	1	20	22
23	20	1	NORTH PLATFORM COL. 7.5-11/A-B.5			1300					SPARE	1	20	24
25	20	1	SPARE								SPARE	1	20	26
27	20	1	SPARE								SPARE	1	20	28
29	20	1	SPARE								SPARE	1	20	30
31	20	1	SPARE								SPARE	1	20	32
33														34
35														36
37														38
39														40
41														42
SUB TOTAL				6450	7140	6345		7200	7200	7200	SUB TOTAL			
VOLTAGE: 480/227V,3P,4W							13650 14340 13545							
MAINS: 100A CB														
MIN IC: 22,000A														
TOTAL 3 PHASE CONNECTED							41.5 KVA			50.0 AMPS				

LOCATION: ELEC RM#3 (Platform #1 Level, Col. D/6.5)										PANEL L151 NORMAL			MOUNTING: SURFACE		
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO	
				A	B	C		A	B	C					
1	20	1	PLATFORM #1, TRACK LEVEL CHASE LIGHTING	1690				1320			SOUTH SLPA ENCL (11 M1) LIGHTS	1	20	2	
3	20	1	SOUTH CONCOURSE STAIR & SOUTH PLATFORM		980				1320		SOUTH SLPA ENCL (11 M1) LIGHTS	1	20	4	
5	20	1	NORTH PLATFORM COL. 4-8/A-B.5,STAIR #5			2065				1200	SOUTH SLPA ENCL (10 M1) LIGHTS	1	20	6	
7	20	1	SOUTH PLATFORM (M36) COL. 4-8/A-B.5	2340				2880			SOUTH SLPA ENCL (24 M1) LIGHTS	1	20	8	
9	20	1	SOUTH PLATFORM (M36) COL. 8-10/A-B.5		2880				2800		SOUTH SLPA ENCL (24 M1) LIGHTS	1	20	10	
11	20	1	SOUTH PLATFORM (M5) COL. 17.5-23/A-B.5			1015				3000	SOUTH SLPA ENCL (25 M1) LIGHTS	1	20	12	
13	20	1	SOUTH PLATFORM COL. 4-10.5/A-B.5	880				3000			EWB-2, COL 2.25/D	1	20	14	
15	20	1	SOUTH PLATFORM COL. 8-11/A-B.5		2740				3000		EWB-2, COL 8/C.5	1	20	16	
17	20	1	SOUTH PLATFORM COL. 12-17.5/A-B.5			1965			3000		EWB-2, COL 20.6/D	1	20	18	
19	20	1	SOUTH PLATFORM COL. 7.5-11/A-B.5	540							SPARE	1	20	20	
21	20	1	SOUTH PLATFORM COL. 7.5-11/A-B.5		540						SPARE	1	20	22	
23	20	1	SOUTH PLATFORM COL. 7.5-11/A-B.5			1300					SPARE	1	20	24	
25	20	1	SPARE								SPARE	1	20	26	
27	20	1	SPARE								SPARE	1	20	28	
29	20	1	SPARE								SPARE	1	20	30	
31														32	
33														34	
35														36	
37														38	
39														40	
41														42	
SUB TOTAL				6450	7140	6345		7200	7200	7200	SUB TOTAL				
VOLTAGE: 480/227V,3P,4W							13650	14340	13545						
MAINS: 100A CB															
MIN IC: 22,000A				TOTAL 3 PHASE CONNECTED			41.5	KVA	50.0	AMPS					

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LOCATION: ELEC RM#2 (Concourse Level, Col. A/4.5)				PANEL LA16 NORMAL				MOUNTING: SURFACE						
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			POLES	TRIP AMP	CKT NO	
				A	B	C		A	B	C				
1	20	1	(5) RECPT AT RMS. C15, C19, C31	900				1200			(1) RECPT AT RM. C32 HAND DRYER	1	20	2
3	20	1	(5) RECPT AT RMS. C15, C19, C31, C25		900			1200			(1) RECPT AT RM. C33 HAND DRYER	1	20	4
5	20	1	(3) RECPT AT RMS. C24, C34, C35			540			1080		(6) RECPT AT RMS. C24, C34, C35	1	20	6
7	20	1	(2) RECPT AT RMS. M02, M04	360				900			(5) RECPT AT RMS. C38, M01, M03	1	20	8
9	20	1	(1) RECPT AT RM. C31 (WATER HEATER)		1000				52		AHU-9	2	20	10
11	20	1	IRRIGATION CONTROLLER RM. C19			500			52		-----	-	-	12
13	20	1	ROLLING GRILLE C/02A	1127				744			EF-12, EF-14	1	20	14
15	20	2	AHU-18		208				1300		EH-1	1	20	16
17	-	-	-----			208			1300		-----	1	20	18
19	40	3	PANEL LA161	4964				744			EF-11, EF-13	1	20	20
21	-	-	-----		3704				1435		ACU-9	2	20	22
23	-	-	-----			1728			1435		-----	-	-	24
25	20	1	SPARE					1716			ACU-13	2	20	26
27	20	1	SPARE						1716		-----	-	-	28
29	20	1	SPARE							1488	EF-16, EF-15, SF-3	1	20	30
31	20	1	SPARE					1176			ROLLING GRILLE C/02C	1	20	32
33	20	1	SPARE						208		AHU-16	2	20	34
35	20	1	SPARE							208	-----	-	-	36
37	20	1	SPARE						208		AHU-17	2	20	38
39	20	1	SPARE							208	-----	-	-	40
41	20	1	SPARE							372	SF-6	1	20	42
SUB TOTAL				6164	5812	3012		6616	6119	5935	SUB TOTAL			
VOLTAGE: 208/120V,3P,4W								6616	6119	5935				
MAINS: 125A CB														
MIN IC: 22,000A														
TOTAL 3 PHASE CONNECTED				33.66			KVA	93.43		AMPS				
Santa Clara Valley Transportation Authority														
NO EXCEPTIONS TAKEN (NET)														
MAKE CORRECTIONS NOTED (MCN)														
AMEND AND RESUBMIT (A/R)														

Santa Clara Valley Transportation Authority
NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)
Contract No.: DB11002F
By: _____ Date: _____
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

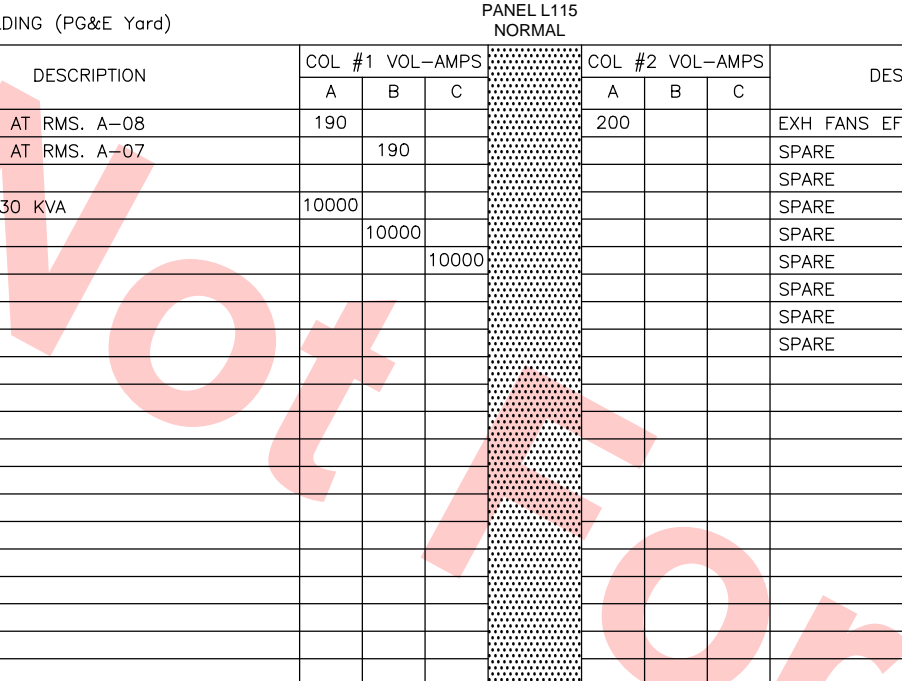
LOCATION: ELEC RM#4 (Platform #2 Level, Col. A/6.5)							PANEL LA161 NORMAL				Contract No: DB11002F		By: _____ Date: _____			MOUNTING: SURFACE		
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO				
				A	B	C		A	B	C								
1	20	1	(4) RECPT AT COL. 2, 5, 8, 11 (IN CHASE)	720				1584			EF-2, SF-2, EF-4, EF-6	1	20	2				
3	20	1	(3) RECPT AT COL. 14, 17, 20 (IN CHASE)		540				52		AHU-2	1	20	4				
5	20	1	(4) RECPT AT. COL. 1, 2.5, RM. P24			720				52	-----	1	20	6				
7	20	1	(5) RECPT AT COL. 2, 4, 5, RMS. P24, P22	900				208			AHU-6	1	20	8				
9	20	1	(5) RECPT AT RMS. P22, P20, P18, P16		900				208		-----	1	20	10				
11	20	1	(5) RECPT AT COL. 8, RMS. P16, P14, P32			900				52	AHU-8	1	20	12				
13	20	1	(5) RECPT BET. COL. 8-10	900				52			-----	1	20	14				
15	20	1	(4) RECPT AT COL. 10 & RM. P10		720				744		EF-8, EF-10	1	20	16				
17	20	1	SPARE								SPARE	1	20	18				
19	20	1	SPARE								SPARE	1	20	20				
21	20	1	(3) RECPT AT COL. 13.5, 16, RM. P02		540						SPARE	1	20	22				
23	20	1	(3) RECPT AT COL. 13, RM. P34			540					SPACE			24				
25	20	1	SPARE								SPACE			26				
27	20	1	SPARE								SPACE			28				
29	20	1	SPARE								SPACE			30				
31	20	1	SPARE								SPACE			32				
33	20	1	SPARE								SPACE			34				
35	20	1	SPARE								SPACE			36				
37	20	1	SPARE								SPACE			38				
39	20	1	SPARE								SPACE			40				
41	20	1	SPARE								SPACE			42				
SUB TOTAL				3060	2700	1620		1844	1004	108	SUB TOTAL							
VOLTAGE: 208/120V,3P,4W							4904	3704	1728									
MAINS: 50A CB																		
MIN IC: 22,000A																		
TOTAL 3 PHASE CONNECTED							10.34	KVA	28.69	AMPS								

LOCATION: ELEC RM#1 (Concourse Level, Col. D/10.5)							PANEL LA17 NORMAL			MOUNTING: SURFACE				
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO
				A	B	C		A	B	C				
1	20	1	(3) RECPT AT RMS. C05, C14, C12	540				540			(3) RECPT AT RMS. C03, C06, C07	1	20	2
3	20	1	(3) RECPT AT RMS. C14, C11		540				540		(3) RECPT AT RMS. C06, C07	1	20	4
5	20	1	(3) RECPT AT RMS. C10, C08			540				1212	EF-17, SF-4, SF-5	1	20	6
7	20	1	(3) RECPT AT RMS. C10, C08, C02	540				208			AHU-14	2	20	8
9	20	1	(3) RECPT AT RMS. C10, C08		540				208		-----	-	-	10
11	40	3	PANEL LA171	5494						208	AHU-15	2	20	12
13	-	-	-----		2882			208			-----	-	-	14
15	-	-	-----			1752					SPARE	2	20	16
17	20	1	SPARE								SPARE	-	-	18
19	20	1	SPARE					208			AHU-20	2	20	20
21	20	1	SPARE						208		-----	-	-	22
23	20	1	SPARE							1178	ROLLING GRILLE C/02D	1	20	24
25	20	1	SPARE					1178			ROLLING GRILLE C/02F	1	20	26
27	20	1	SPARE						52		AHU-21	2	20	28
29	20	1	SPARE							52	-----	-	-	30
31	20	1	SPARE					78			AHU-22	2	20	32
33	20	1	SPARE						78		-----	-	-	34
35	20	1	SPARE							1212	SF-7	1	20	36
37	20	1	SPARE					864			ROLL-UP DOOR POC/6	1	20	38
39	20	1	SPARE								SPACE	1	20	40
41	20	1	SPARE								SPACE	1	20	42
SUB TOTAL				6574	3962	2292		3284	1294	4070	SUB TOTAL			
VOLTAGE: 208/120V,3P,4W							9858 5256 6362							
MAINS: 125A CB														
MIN IC: 22,000A														
TOTAL 3 PHASE CONNECTED							21.47 KVA 59.61 AMPS							

LOCATION: ELEC RM#3 (Platform #1 Level, Col. D/6.5)				PANEL LA171 NORMAL				MOUNTING: SURFACE							
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO	
				A	B	C		A	B	C					
1	20	1	(4) RECPT AT COL. 2, 5, 8, 11 (IN CHASE)	720				1584			EF-1, SF-1, EF-3, EF-5	1	20	2	
3	20	1	(3) RECPT AT COL. 14, 17, 20 (IN CHASE)		540				52		AHU-1	2	20	4	
5	20	1	(4) RECPT AT COL. 1, 2, 3			720				52	-----	-	-	6	
7	20	1	(6) RECPT AT COL. 4, 5, RMS. P23, P21	1080				78			AHU-3	2	20	8	
9	20	1	(5) RECPT AT RMS. P21, P19, P17, P15		900				78		-----	-	-	10	
11	20	1	(5) RECPT AT RMS. P15, P13, P31, COL. 8			720				208	AHU-5	2	20	12	
13	20	1	(4) RECPT BET. COL. 8-10	720				208			-----	-	-	14	
15	20	1	(4) RECPT AT COL. 11, RM. P09		720				52		AHU-7	2	20	16	
17	20	1	SPARE							52	-----	-	-	18	
19	20	1	(2) RECPT AT COL. 12, 13	360				744			EF-7, EF-9	1	20	20	
21	20	1	(3) RECPT AT COL. 13.5, 16, RM. P01		540						SPARE	1	20	22	
23	20	1	SPARE								SPARE	1	20	24	
25	20	1	SPARE								SPARE	1	20	26	
27	20	1	SPARE								SPARE	1	20	28	
29	20	1	SPARE								SPARE	1	20	30	
31	20	1	SPARE								SPARE	1	20	32	
33	20	1	SPARE								SPACE			34	
35	20	1	SPARE								SPACE			36	
37	20	1	SPARE								SPACE			38	
39	20	1	SPARE								SPACE			40	
41	20	1	SPARE								SPACE			42	
SUB TOTAL				2880	2700	1440		2614	182	312	SUB TOTAL				
VOLTAGE: 208/120V,3P,4W							5494	2882	1752						
MAINS: 50A CB															
MIN IC: 22,000A															
TOTAL 3 PHASE CONNECTED				10.13			KVA	28.1			AMPS				

								DESIGNED BY G. LALWANI DRAWN BY C. MARAVILLA CHECKED BY L. CHEN IN CHARGE R. BARLAAN DATE 20130710				Skanska Shimmick Herzog 1436 California Circle Milpitas, California 95035 A Joint Venture Anil Verma Associates, Inc. 1970 Broadway, Suite 505 Oakland, CA 94612 Phone: (510) 455-
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LOCATION: ANCILLARY BUILDING (PG&E Yard)				PANEL L115 NORMAL				MOUNTING: SURFACE							
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO	
				A	B	C		A	B	C					
1	20	1	(2) M37 LTS AT RMS. A-08	190				200			EXH FANS EF-25, EF-26	1	20	2	
3	20	1	(2) M37 LTS AT RMS. A-07		190						SPARE	1	20	4	
5	20	1	SPARE								SPARE	1	20	6	
7	50	3	T5 TRANSF. 30 KVA	10000							SPARE	1	20	8	
9	-	-	-----		10000						SPARE	1	20	10	
11	-	-	-----			10000					SPARE	1	20	12	
13	20	1	SPARE								SPARE	1	20	14	
15	20	1	SPARE								SPARE	1	20	16	
17	20	1	SPARE								SPARE	1	20	18	
19	20	1												20	
21	20	1												22	
23	20	1												24	
25														26	
27														28	
29														30	
31														32	
33														34	
35														36	
37														38	
39														40	
41													42		
SUB TOTAL				10190	10190	10000		200			SUB TOTAL				
VOLTAGE: 480/277V,3P,4W				10390			10190	10000							
MAINS: 60A CB															
MIN IC: 22,000A				TOTAL 3 PHASE CONNECTED				30.58	KVA	36.78	AMPS				
<div>Santa Clara Valley Transportation Authority</div> <div>NO EXCEPTIONS TAKEN (NET)</div> <div>MAKE CORRECTIONS NOTED (MCN)</div> <div>AMEND AND RESUBMIT (A/R)</div>															

Santa Clara Valley Transportation Authority
NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.
Contract No.: DB11002F
By: _____ Date: _____

LOCATION: ELEC RM#4 (Platform #2 Level, Col. A/6.5)							PANEL EL241 EMERGENCY				MOUNTING: SURFACE			
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO
				A	B	C		A	B	C				
1	20	1	PLATFORM #2, TRACK LEVEL CHASE LIGHTING	910							SPARE	1	20	2
3	20	1	NORTH PLATFORM EMERGENCY LIGHTS		2075						SPARE	1	20	4
5	20	1	NORTH PLATFORM EMERGENCY LIGHTS			2010					SPARE	1	20	6
7	20	1	NORTH SLPA ENCLOSURE LIGHTS	2660							SPARE	1	20	8
9	20	1	NORTH SLPA ENCLOSURE LIGHTS		2660						SPARE	1	20	10
11	20	1	NORTH SLPA ENCLOSURE LIGHTS			2610					SPARE	1	20	12
13	20	1	SPARE								SPARE	1	20	14
15	20	1	BLUE LIGHT STATION-NORTH (EASTSIDE)		200						SPARE	1	20	16
17	20	1	BLUE LIGHT STATION-NORTH (WESTSIDE)			200					SPARE	1	20	18
19	20	1	SPARE											20
21	20	1	SPARE											22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39														40
41														42
SUB TOTAL				3570	4935	2820					SUB TOTAL			
VOLTAGE: 480/227V,3P,4W							3570	4935	2820					
MAINS: 70A CB														
MIN IC: 22,000A														
TOTAL 3 PHASE CONNECTED							13.33	KVA	16.0	AMPS				

LOCATION: ANCILLARY BUILDING (PG&E Yard)				PANEL LA115 NORMAL				By: _____ Date: _____		MOUNTING: SURFACE					
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO	
				A	B	C		A	B	C					
1	20	1	(8) RECPT AT RMS. A-01, 02, 03, 04, 09	1440							SPACE			2	
3	20	1	(7) RECPT AT RMS. A-02, 03, 07, 08, 09		1260						SPACE			4	
5	20	1	(4) RECPT AT RMS. A-04, 06, 07, 09			720					SPACE			6	
7	20	1	SPARE								SPACE			8	
9	20	1	SPARE								SPACE			10	
11	20	1	SPARE								SPACE			12	
13	20	1	SPARE								SPACE			14	
15	20	1	SPARE								SPACE			16	
17	20	1	SPARE								SPACE			18	
19	20	1	SPARE								SPACE			20	
21	20	1	SPARE								SPACE			22	
23	20	1	SPARE								SPACE			24	
25	20	1	SPARE								SPACE			26	
27	20	1	SPARE								SPACE			28	
29	20	1	SPARE								SPACE			30	
31	20	1	SPARE								SPACE			32	
33	20	1	SPARE								SPACE			34	
35	20	1	SPARE								SPACE			36	
37	20	1	SPARE								SPACE			38	
39	20	1	SPARE								SPACE			40	
41	20	1	SPARE								SPACE			42	
SUB TOTAL				1440	1260	720					SUB TOTAL				
VOLTAGE: 208/120V,3P,4W				1440			1260	720							
MAINS: 50A CB															
MIN IC: 22,000A				TOTAL 3 PHASE CONNECTED				3.42	KVA	16.5	AMPS				

LOCATION: ELEC RM#3 (Platform #1 Level, Col. D/6.5)							PANEL EL242 EMERGENCY			MOUNTING: SURFACE				
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO
				A	B	C		A	B	C				
1	20	1	PLATFORM #1, TRACK LEVEL CHASE LIGHTING	910				TBD			PANEL ELA243	1	20	2
3	20	1	SOUTH PLATFORM EMERGENCY LIGHTS		2075				TBD		-----	1	20	4
5	20	1	SOUTH SLPA ENCLOSURE (64 M1) LIGHTS			2010				TBD	-----	1	20	6
7	20	1	SOUTH SLPA ENCLOSURE LIGHTS	2660							SPARE	1	20	8
9	20	1	SOUTH SLPA ENCLOSURE LIGHTS		2660						SPARE	1	20	10
11	20	1	SPARE								SPARE	1	20	12
13	20	1	SPARE								SPARE	1	20	14
15	20	1	BLUE LIGHT STATION-NORTH (EASTSIDE)		200						SPARE	1	20	16
17	20	1	BLUE LIGHT STATION-NORTH (WESTSIDE)			200					SPARE	1	20	18
19	20	1	SPARE								SPARE	1	20	20
21	20	1	SPARE								SPARE	1	20	22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39														40
41														42
SUB TOTAL				3570	4935	2210					SUB TOTAL			
VOLTAGE: 480/227V,3P,4W				3570		4735	2010							
MAINS: 60A CB														
MIN IC: 22,000A				TOTAL 3 PHASE CONNECTED		10.72	KVA	12.9	AMPS					

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LOCATION: ELEC RM#4 (Platform #2 Level, Col. A/6.5)

PANEL ELA252
EMERGENCY

MOUNTING: SURFACE

CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO
				A	B	C		A	B	C				
1	20	1	(5) RECPT AT COL. 3, 4, 13.5, RM. P22	900						SPACE			2	
3	20	1	(5) RECPT AT COL. 10, 19, RM. P14, P34		900					SPACE			4	
5	20	1	SPARE							SPACE			6	
7	20	1	SPARE							SPACE			8	
9	20	1	SPARE							SPACE			10	
11	20	1	SPARE							SPACE			12	
13	20	1	SPARE							SPACE			14	
15	20	1	SPARE							SPACE			16	
17	20	1	SPARE							SPACE			18	
19	20	1	SPARE							SPACE			20	
21	20	1	SPARE							SPACE			22	
23	20	1	SPARE							SPACE			24	
25	20	1	SPARE							SPACE			26	
27	20	1	SPARE							SPACE			28	
29	20	1	SPARE							SPACE			30	
31	20	1	SPARE							SPACE			32	
33	20	1	SPARE							SPACE			34	
35	20	1	SPARE							SPACE			36	
37	20	1	SPARE							SPACE			38	
39	20	1	SPARE							SPACE			40	
41	20	1	SPARE							SPACE			42	
SUB TOTAL				900	900	0				SUB TOTAL				
VOLTAGE: 208/120V,3P,4W				GRAND TOTAL			900	900	0					
MAINS: 70A CB				TOTAL 3 PHASE CONNECTED			1.80	KVA	8.65	AMPS				
MIN IC: 22,000A														

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)

MAKE CORRECTIONS NOTED (MCN)

AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

LOCATION: ELEC RM #1 (Concourse Level, Col. D/10.5)

PANEL EF22
EMERGENCY

MOUNTING: SURFACE

CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO
				A	B	C		A	B	C				
1	20	1	FARE GATE #1 - COL. 7.8/B-C	1000						SPACE	1	20	2	
3	20	1	FARE GATE #2 - COL. 7.8/B-C		1000					SPACE			4	
5	20	1	FARE GATE #3 - COL. 7.8/B-C			1000							6	
7	20	1	FARE GATE #4 - COL. 7.8/B-C	1000									8	
9	20	1	FARE GATE #5 - COL. 7.8/B-C		1000								10	
11	20	1	FARE GATE #6 - COL. 7.8/B-C			1000							12	
13	20	1	FARE GATE #7 - COL. 7.8/B-C	1000									14	
15	20	1	FARE GATE #8 - COL. 7.8/B-C		1000								16	
17	20	1	FARE GATE #9 - COL. 7.8/B-C			1000							18	
19	20	1	FARE GATE #10 - COL. 7.8/B-C	1000									20	
21	20	1	FARE GATE #11 - COL. 7.8/B-C		1000								22	
23	20	1	FARE GATE #12 - COL. 7.8/B-C			1000							24	
25	20	1	FARE GATE #13 - COL. 7.8/B-C	1000									26	
27	20	1	ADA GATE #1 - COL. 7.8/B-C		1000								28	
29	20	1	ADA GATE #2 - COL. 7.8/B-C			1000							30	
31													32	
33													34	
35													36	
37													38	
39													40	
41													42	
SUB TOTAL										SUB TOTAL				
VOLTAGE: 480/227V,3P,4W				GRAND TOTAL										
MAINS: 60A CB				TOTAL 3 PHASE CONNECTED				KVA		AMPS				
MIN IC: 22,000A														

LOCATION: ELEC RM#3 (Platform #1 Level, Col. D/6.5)

PANEL ELA261
EMERGENCY

MOUNTING: SURFACE






CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO
				A	B	C		A	B	C				
1	20	1	(5) RECPT AT COL. 3, 4, 13.5, RM. P23	900						SPACE			2	
3	20	1	(5) RECPT AT COL. 10, 19, RMS. P13, P33		900					SPACE			4	
5	20	1	SPARE							SPACE			6	
7	20	1	SPARE							SPACE			8	
9	20	1	SPARE							SPACE			10	
11	20	1	SPARE							SPACE			12	
13	20	1	SPARE							SPACE			14	
15	20	1	SPARE							SPACE			16	
17	20	1	SPARE							SPACE			18	
19	20	1	SPARE							SPACE			20	
21	20	1	SPARE							SPACE			22	
23	20	1	SPARE							SPACE			24	
25	20	1	SPARE							SPACE			26	
27	20	1	SPARE							SPACE			28	
29	20	1	SPARE							SPACE			30	
31	20	1	SPARE							SPACE			32	
33	20	1	SPARE							SPACE			34	
35	20	1	SPARE							SPACE			36	
37	20	1	SPARE							SPACE			38	
39	20	1	SPARE							SPACE			40	
41	20	1	SPARE							SPACE			42	
SUB TOTAL				900	900	0				SUB TOTAL				
VOLTAGE: 208/120V,3P,4W				GRAND TOTAL			900	900	0					
MAINS: 70A CB				TOTAL 3 PHASE CONNECTED			1.80	KVA	8.65	AMPS				
MIN IC: 22,000A														

LOCATION: ELEC RM #1 (Concourse Level, Col. D/10.5)

PANEL EF23
EMERGENCY

MOUNTING: SURFACE

CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO
				A	B	C		A	B	C				
1	20	1	FARE GATE #1 - COL. 9.2/B-C	1000									2	
3	20	1	FARE GATE #2 - COL. 9.2/B-C		1000								4	
5	20	1	FARE GATE #3 - COL. 9.2/B-C			1000							6	
7	20	1	FARE GATE #4 - COL. 9.2/B-C	1000									8	
9	20	1	FARE GATE #5 - COL. 9.2/B-C		1000								10	
11	20	1	FARE GATE #6 - COL. 9.2/B-C			1000							12	
13	20	1	FARE GATE #7 - COL. 9.2/B-C	1000									14	
15	20	1	FARE GATE #8 - COL. 9.2/B-C		1000								16	
17	20	1	FARE GATE #9 - COL. 9.2/B-C			1000							18	
19													20	
21													22	
23													24	
25													26	
27													28	
29													30	
31													32	
33													34	
35													36	
37													38	
39													40	
41													42	
SUB TOTAL										SUB TOTAL				
VOLTAGE: 480/227V,3P,4W				GRAND TOTAL										
MAINS: 60A CB				TOTAL 3 PHASE CONNECTED				KVA		AMPS				
MIN IC: 22,000A														

					DESIGNED BY G. LALWANI			1436 California Circle Milpitas, California 95035 A Joint Venture		Anil Verma Associates, Inc. 1970 Broadway, Suite 525 Oakland, CA 94612 Phone: (510) 455-2537 Fax: (510) 535-2339		T-Y-LIN INTERNATIONAL A LEO A DALY COMPANY		LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION	PANEL SCHEDULES SHEET 5 OF 5	CADD FILENAME C700-S-DB-E524.dwg	
					DRAWN BY G. MARAVILLA											SIZE SCALE D NONE	
					CHECKED BY L. CHEN											CONTRACT NO. C700	
					IN CHARGE R. BARLAAN											REV. 0	
					DATE 20130710												AREA CODE SHEET NO. PAGE NO. DB E524 0924
0	20130710				READINESS FOR CONSTRUCTION												
REV	DATE	BY	SUB	APP	DESCRIPTION												

[illegible]

By: _____ **Date:** _____

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480 V SWITCHBOARD "EA2" (GENERATOR BUS)

[illegible]




Santa Clara Valley Transportation Authority

___ NO EXCEPTIONS TAKEN (NET)
___ MAKE CORRECTIONS NOTED (MCN)
___ AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

					DESIGNED BY G. LALWANI DRAWN BY G. MARAVILLA CHECKED BY L. CHEN IN CHARGE R. BARLAAN DATE 20130710				Skanska Shimmick Herzog 1436 California Circle Milpitas, California 95035 A Joint Venture				LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION ELECTRICAL RACEWAY AND CIRCUIT SCHEDULE SHEET 2 OF 4		CADD FILENAME C700-S-DB-E531.dwg SIZE D SCALE NONE CONTRACT NO. C700 REV. 0 AREA CODE DB SHEET NO. E531 PAGE NO. 0926	
0 20130710 READINESS FOR CONSTRUCTION					Anil Verma Associates, Inc. 1970 Broadway, Suite 505, Oakland, CA 94612 Phone: (510) 466-2540 Fax: (510) 435-2539		 Lockwood, Andrews & Newnam, Inc. A L&N & T&Y COMPANY		T-Y-LIN INTERNATIONAL APPROVED <i>[Signature]</i>		BART SILICON VALLEY BERRYESSA EXTENSION					
REV	DATE	BY	SUB	APP	DESCRIPTION											

[illegible][illegible]

By: _____ **Date:** _____

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PG & E "MAIN TRANSFORMER" NORMAL POWER 480/277V, 3Ø, 60-HZ, 4W LOADS IN YARD								
CIRCUIT NUMBER	APPLICATION	RUN			CONDUIT SIZE&TYPE	CONDUCTORS	INSTALLATION DRAWINGS	REMARKS
		FROM	VIA	TO				
P1-1	PG & E NORMAL POWER FEEDER	PG & E YARD MAIN TRANSFORMER SECONDARY	DUCT BANK	MAIN SWITCHBOARD "AM"	5" PVC			CONDUCTORS BY PG & E
P1-2	PG & E NORMAL POWER FEEDER	PG & E YARD MAIN TRANSFORMER SECONDARY	DUCT BANK	MAIN SWITCHBOARD "AM"	5" PVC			CONDUCTORS BY PG & E
P1-3	PG & E NORMAL POWER FEEDER	PG & E YARD MAIN TRANSFORMER SECONDARY	DUCT BANK	MAIN SWITCHBOARD "AM"	5" PVC			CONDUCTORS BY PG & E
P1-4	PG & E NORMAL POWER FEEDER	PG & E YARD MAIN TRANSFORMER SECONDARY	DUCT BANK	MAIN SWITCHBOARD "AM"	5" PVC			CONDUCTORS BY PG & E
P1-5	PG & E NORMAL POWER FEEDER	PG & E YARD MAIN TRANSFORMER SECONDARY	DUCT BANK	MAIN SWITCHBOARD "AM"	5" PVC			CONDUCTORS BY PG & E
P1-6	PG & E NORMAL POWER FEEDER	PG & E YARD MAIN TRANSFORMER SECONDARY	DUCT BANK	MAIN SWITCHBOARD "AM"	5" PVC			CONDUCTORS BY PG & E
P1-7	PG & E NORMAL POWER FEEDER	PG & E YARD MAIN TRANSFORMER SECONDARY	DUCT BANK	MAIN SWITCHBOARD "AM"	5" PVC			CONDUCTORS BY PG & E
P1-8	PG & E NORMAL POWER FEEDER	PG & E YARD MAIN TRANSFORMER SECONDARY	DUCT BANK	MAIN SWITCHBOARD "AM"	5" PVC			CONDUCTORS BY PG & E
P1-9	CONTROL	PG & E YARD MAIN TRANSFORMER SECONDARY	DUCT BANK	MAIN SWITCHBOARD "AM"	2" PVC			CONDUCTORS BY PG & E
P1-10	CONTROL	PG & E YARD MAIN TRANSFORMER SECONDARY	DUCT BANK	MAIN SWITCHBOARD "AM"	2" PVC			CONDUCTORS BY PG & E

PG & E "AUTO TRANSFER SWITCH ATS1" NORMAL & DIESEL GENERATOR POWER 480/277V, 3Ø, 60-HZ, 4W
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Santa Clara Valley Transportation Authority

____ NO EXCEPTIONS TAKEN (NET)
____ MAKE CORRECTIONS NOTED (MCN)
____ AMEND AND RESUBMIT (A/R)

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Contract No.: _____ DB11002F

By: _____ Date: _____

						DESIGNED BY G. LALWANI			1436 California Circle Milpitas, California 95035 A Joint Venture		LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION ELECTRICAL RACEWAY AND CIRCUIT SCHEDULE SHEET 4 OF 4	CADD FILENAME C700-S-DB-E533.dwg
					DRAWN BY G. MARAVILLA	SIZE D SCALE NONE						CONTRACT NO. C700 REV. 0
					CHECKED BY L. CHEN	AREA CODE DB SHEET NO. E533 PAGE NO. 0928						
					IN CHARGE R. BARLAAN							
0	20130710				READINESS FOR CONSTRUCTION	DATE 20130710						
REV	DATE	BY	SUB	APP	DESCRIPTION			SUBMITTED	APPROVED			

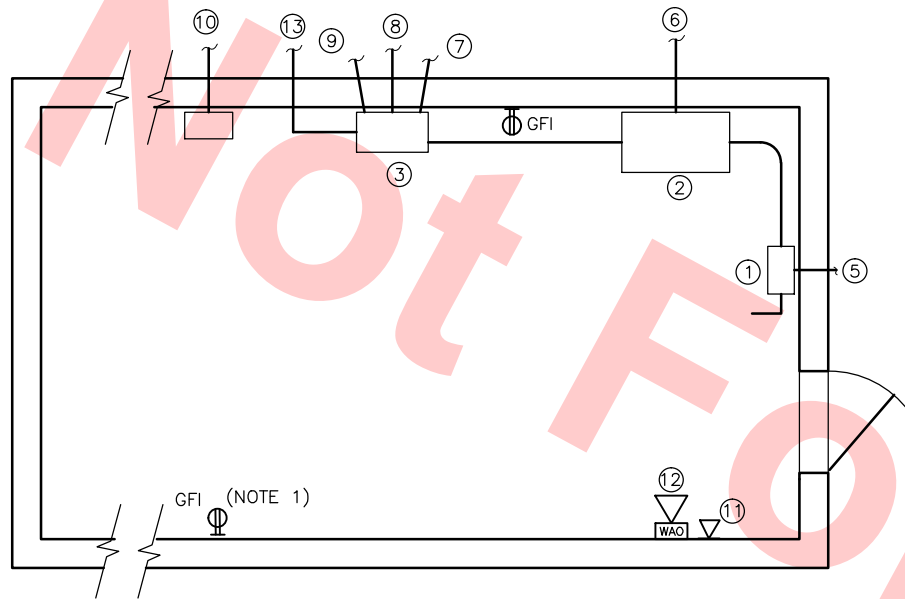
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E6

By: _____ **Date:** _____

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Jun 20, 2013 4:04pm G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E540.dwg



ESCALATOR CONTROL ROOM PLAN (NOTE 5)

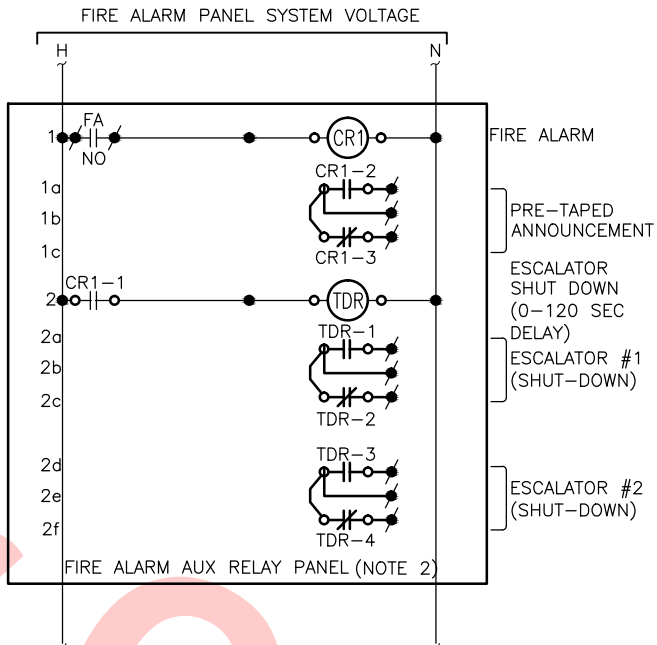
DETAIL

SCALE: NTS

1
DB-E801

ITEM	DESCRIPTION	PURPOSE	REMARKS
①	DISCONNECT SWITCH FUSED, 480V, 3Ø, 4W	MAIN POWER	THIS ITEM TO BE HP RATED
②	CONTROLLER (*)	ESCALATOR CONTROL	VARIABLE FREQUENCY DRIVE
③	FOREIGN VOLTAGE RELAY BOX	ESCALATOR SUPERVISORY AND CONTROL INTERFACE	TO BE CONTROLLED BY MAIN DISCONNECT
④	DRIVE MACHINE (*)	MAIN DRIVE	LOCATED AT ESC UPPER PIT MACHINE COMPARTMENT
⑤	CONDUIT AND WIRE	MAIN FEEDER	480V, 3Ø, 4 WIRE
⑥	CONDUIT AND WIRE	SCADA REMOTE MONITORING	TO CABINET 25E IN TRAIN CONTROL ROOM
⑦	CONDUIT AND WIRE	277V EXITING SIGNS	277V, 1Ø, 3 WIRE, SEE DETAIL 2
⑧	CONDUIT AND WIRE	FACILITIES SUPERVISION AND CONTROL	TO SUPERVISORY TERMINATION CABINET #44 FOR MALFUNCTION ALARM, SEE DETAIL 2
⑨	CONDUIT AND WIRE	FIRE ALARM SHUTDOWN	TO FACP AUXILIARY PANEL IN ELECTRICAL ROOM, SEE DETAIL 3
⑩	CONDUIT AND WIRE	120V LIGHTING & RECEPTACLES	NOTE 1
⑪	IPPBX PHONE		SEE COMMUNICATIONS DRAWING
⑫	WAO	TELECOMMUNICATIONS	SEE COMMUNICATIONS DRAWING
⑬	CONDUIT AND WIRE	SEISMIC SWITCH	IN TRAIN CONTROL ROOM

(*) SUPPLIED BY ESCALATOR VENDOR



DETAIL

ESCALATOR FIRE ALARM SHUT-DOWN
SCALE: NTS

2
DB-E801

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

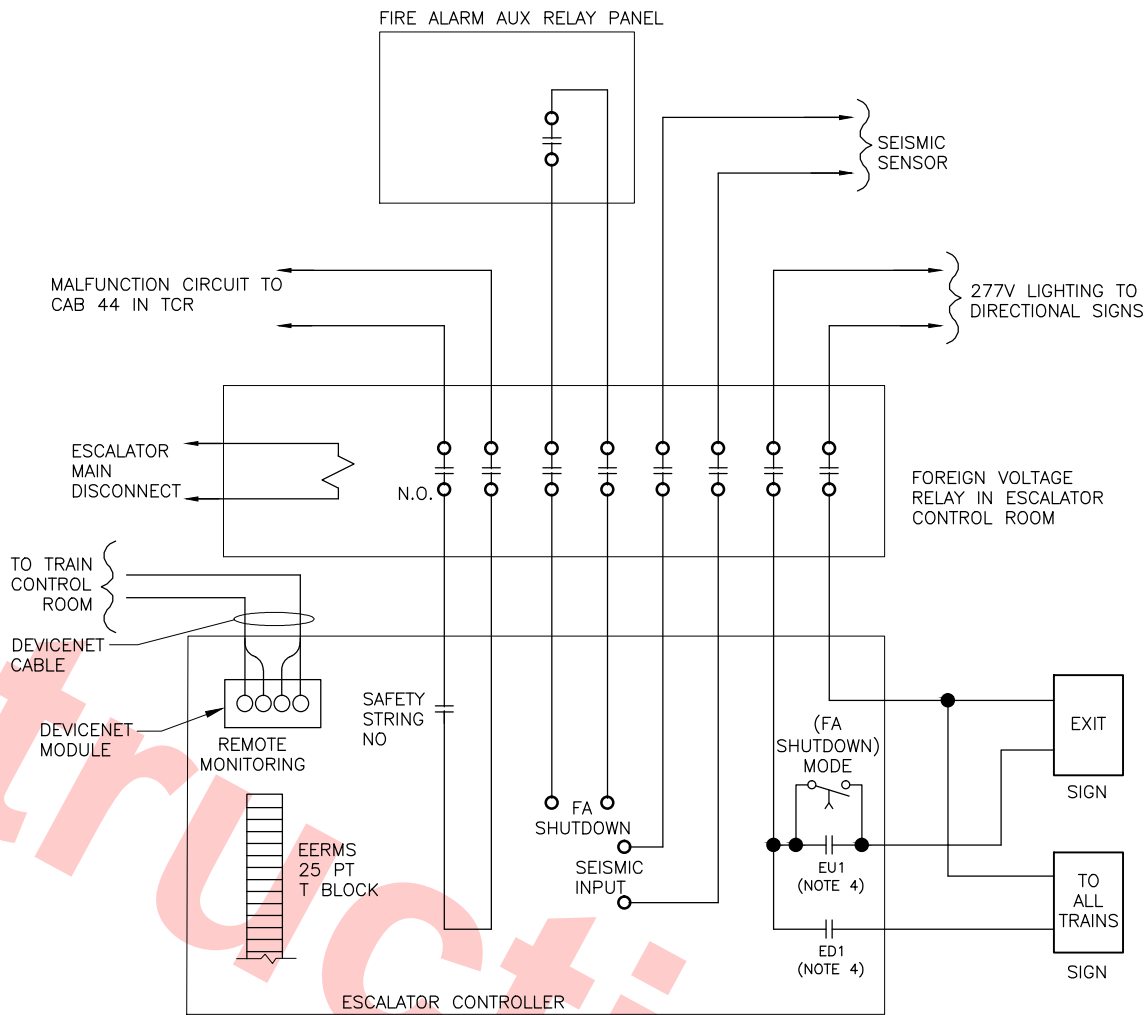
Any action shown above is subject to the terms of the contract
and does not relieve the Contractor of any of its obligations
under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

NOTES:

1. PROVIDE ONE 20 AMP, 120 VOLT CIRCUIT FOR ESCALATOR CONTROL ROOM, LIGHT FIXTURES AND MINIMUM TWO (2) GFI DUPLEX RECEPTACLES.
2. PROVIDE NEMA 1 ENCLOSURE, LOCATE IN ELECTRICAL ROOM.
3. PROVIDE LIGHT FIXTURE, LIGHT SWITCH AND TWO GFI RECEPTACLE AT THE ESCALATOR UPPER AND LOWER PIT.
4. EUI AND EDI AUX CONTACTS ON "UP" AND "DOWN" OF ESCALATOR CONTROLLER. DIRECTIONAL SIGNS ARE REQUIRED FOR PLATFORM ESCALATORS ONLY.
5. ROOM SIZE AND DOOR LOCATION VARIES.



DETAIL

ESC FOREIGN VOLTAGE DISCONNECTING DIAGRAM
SCALE: NTS

3
DB-E801

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

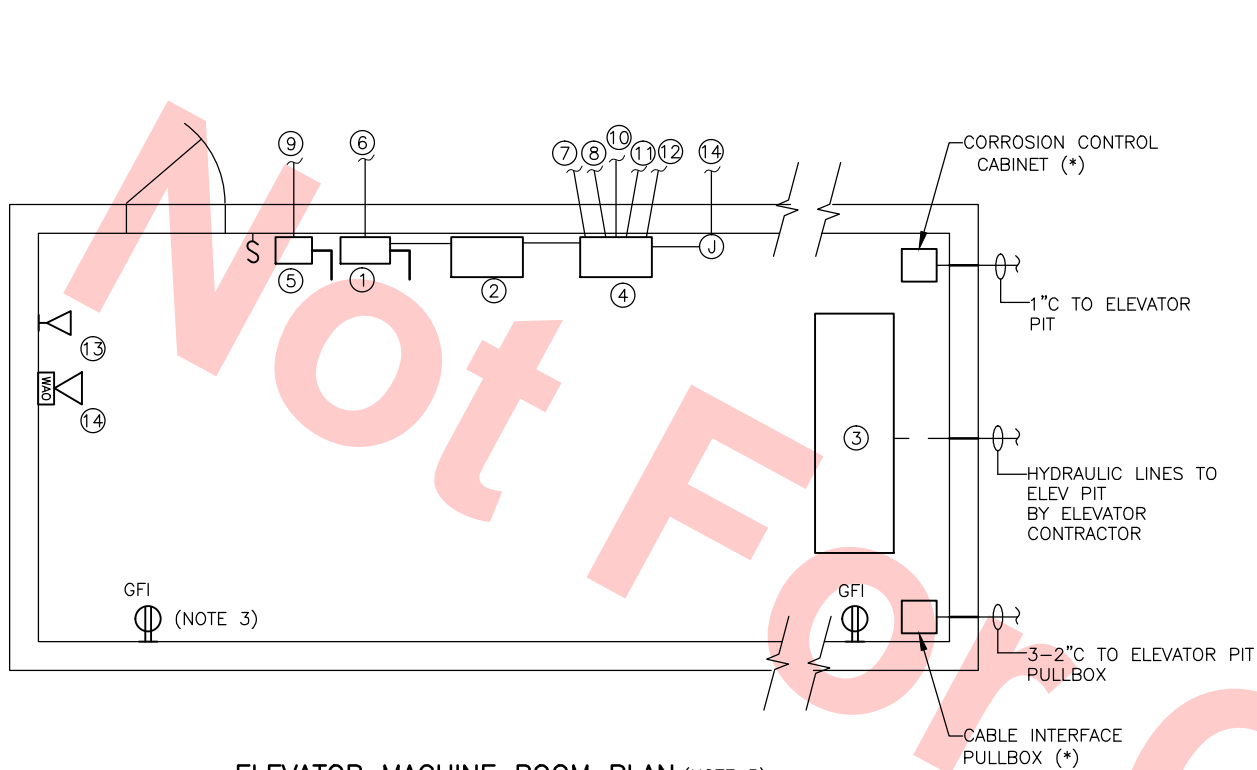
1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED
Ray Adolph



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
ELECTRICAL STANDARD
ELECTRICAL INTERFACE - ESCALATORS

CADD FILENAME C700-S-DB-E540.dwg	SIZE D	SCALE NONE
CONTRACT NO. C700	SHEET NO. DB	PAGE NO. 0930

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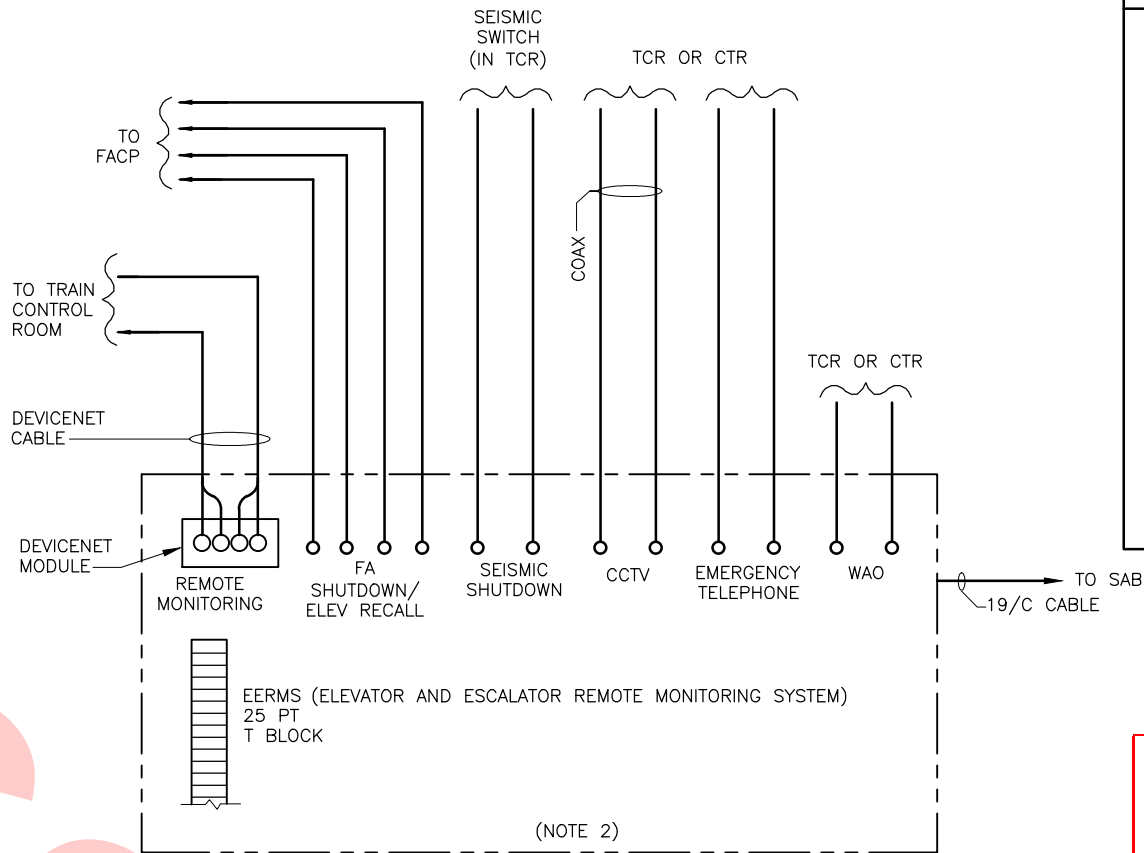


ELEVATOR MACHINE ROOM PLAN (NOTE 5)

DETAIL

SCALE: NTS

1
DB-E802



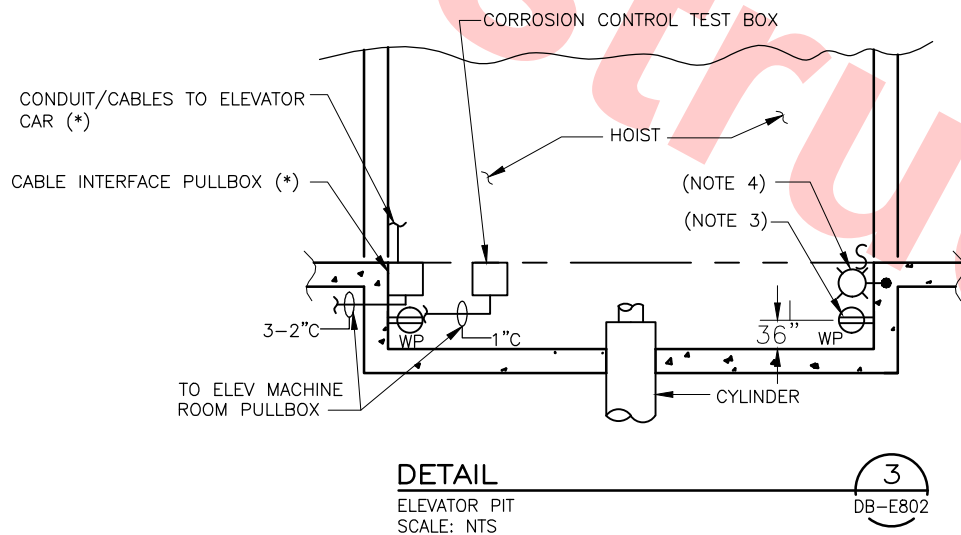
DETAIL

COMMUNICATION INTERFACE CABINET
SCALE: NTS

2
DB-E802

ITEM	DESCRIPTION	PURPOSE	REMARKS
①	DISCONNECT SWITCH FUSED, 480V, 3Ø, 4W	MAIN POWER	THIS ITEM TO BE HP RATED. CAPABLE OF BEING LOCKED IN 'OFF' POSITION
②	CONTROLLER (*)	ELEVATOR CONTROL	MANUFACTURED BY MCE
③	HYDRAULIC TANK (*) & PUMP UNIT	HYDRAULIC DRIVE POWER	
④	COMMUNICATIONS INTERFACE CABINET (CIC)	COMMUNICATIONS TERMINAL BOX	NEMA 12 ENCLOSURE
⑤	SAFETY SWITCH, LOCKABLE	ELEVATOR CAR 120V AUXILIARY POWER	RED COLOR
⑥	CONDUIT AND WIRE	MAIN FEEDER	480V, 3Ø, 3W
⑦	CONDUIT AND WIRE	SCADA REMOTE MONITORING	VIA DEVICE NET MODULE MOUNTED INSIDE COMMUNICATONS INTERFACE CABINET
⑧	CONDUIT AND WIRE	FIRE ALARM SHUTDOWN	FACP IN EMP ROOM
⑨	CONDUIT AND WIRE	DEDICATED 120V POWER	NOTE 1
⑩	CONDUIT AND WIRE	CCTV	
⑪	CONDUIT AND WIRE	EMERGENCY TELEPHONE	
⑫	CONDUIT AND WIRE	SEISMIC SWITCH	
⑬	IPPBX PHONE		SEE COMMUNICATIONS DRAWING
⑭	WAO	TELECOMMUNICATIONS	SEE COMMUNICATIONS DRAWING

(*) SUPPLIED BY ELEVATOR VENDOR



DETAIL

ELEVATOR PIT
SCALE: NTS

3
DB-E802

NOTES

1. PROVIDE ONE 20 AMP, 120V CIRCUIT FOR LIGHT FIXTURE AND GFI DUPLEX RECEPTACLE.
2. LOCATE COMMUNICATION INTERFACE CABINET ADJACENT TO THE CONTROLLER IN THE ELEVATOR MACHINE ROOM.
3. MINIMUM 2 DUPLEX GFI RECEPTACLES.
4. SEALED GASKETED LIGHT FIXTURE WITH 25W COMPACT FLUORESCENT LAMP WITH WIREGUARD. PIT LIGHT AND SWITCH SHALL BE ACCESSIBLE AND 42 INCHES ABOVE THE BOTTOM LANDING FLOOR LEVEL.
5. ROOM SIZE AND DOOR LOCATION VARIES.

Santa Clara Valley Transportation Authority

___NO EXCEPTIONS TAKEN (NET)
___MAKE CORRECTIONS NOTED (MCN)
___AMEND AND RESUBMIT (A/R)

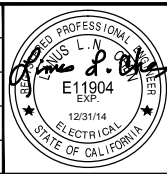
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Milpitas, California 95035
A Joint Venture
SUBMITTED

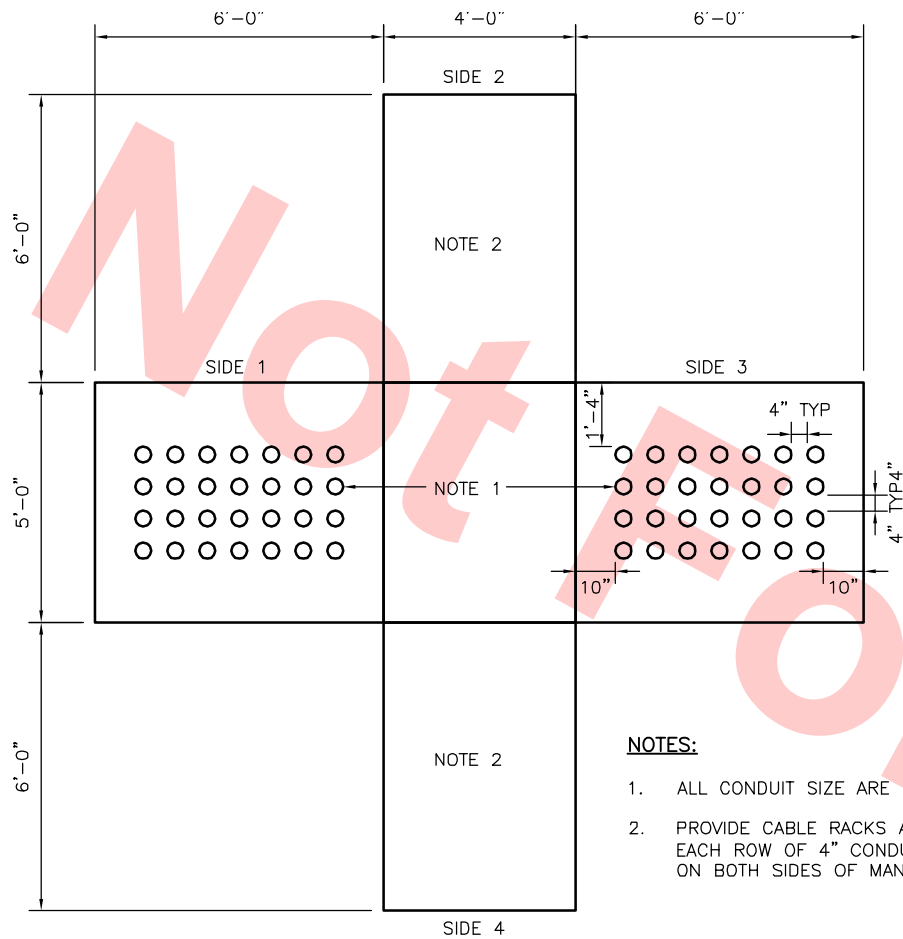
1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
ELECTRICAL STANDARD
ELECTRICAL INTERFACE - ELEVATORS

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CONTRACT NO. C700	SHEET NO. E541	REV. 0
AREA CODE DB	PAGE NO. 0931	

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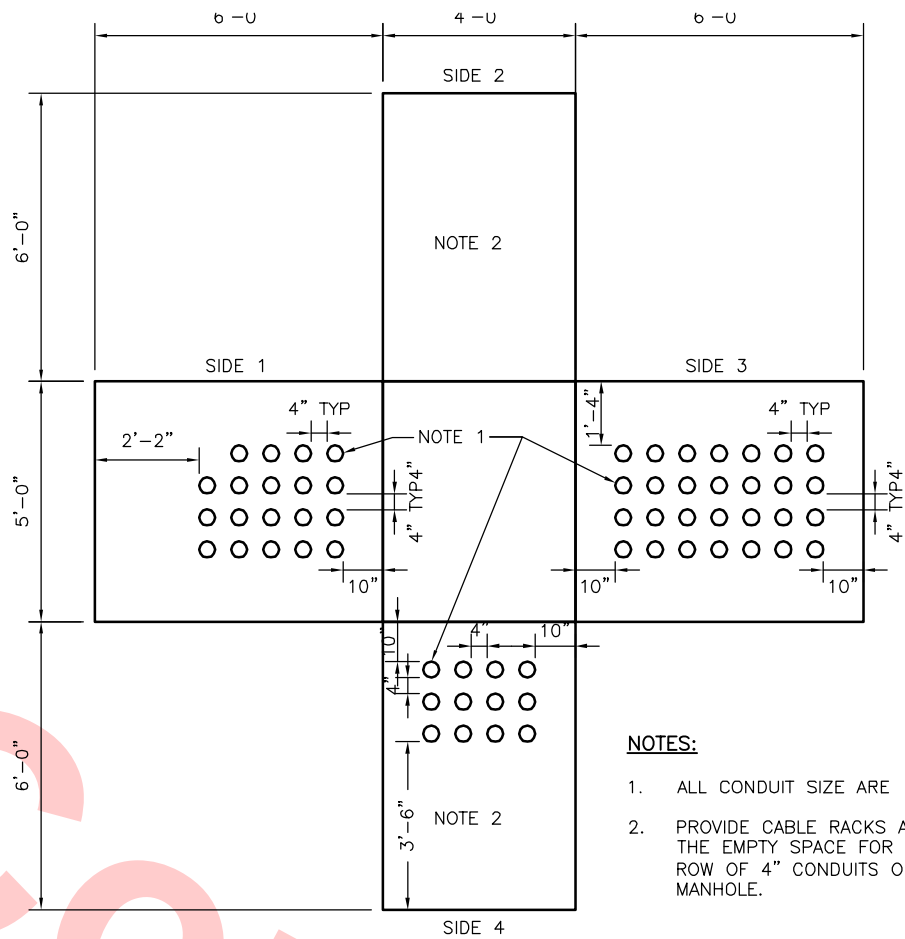
NOTES:

1. ALL CONDUIT SIZE ARE 4"Ø.
2. PROVIDE CABLE RACKS ALONG EACH ROW OF 4" CONDUITS ON BOTH SIDES OF MANHOLE.

DETAIL

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

1
DB-E826



NOTES:

1. ALL CONDUIT SIZE ARE 4"Ø.
2. PROVIDE CABLE RACKS ALONG THE EMPTY SPACE FOR EACH ROW OF 4" CONDUITS OF THE MANHOLE.

DETAIL

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

2
DB-E826

Santa Clara Valley Transportation Authority

- ___NO EXCEPTIONS TAKEN (NET)
- ___MAKE CORRECTIONS NOTED (MCN)
- ___AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
INTERFACE MANHOLE
DATE
20130710



Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.

1970 Broadway, Suite 420
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Lookwood, Andrews & Nowman, Inc.

A LEOPOLD COMPANY

T-Y-LIN INTERNATIONAL



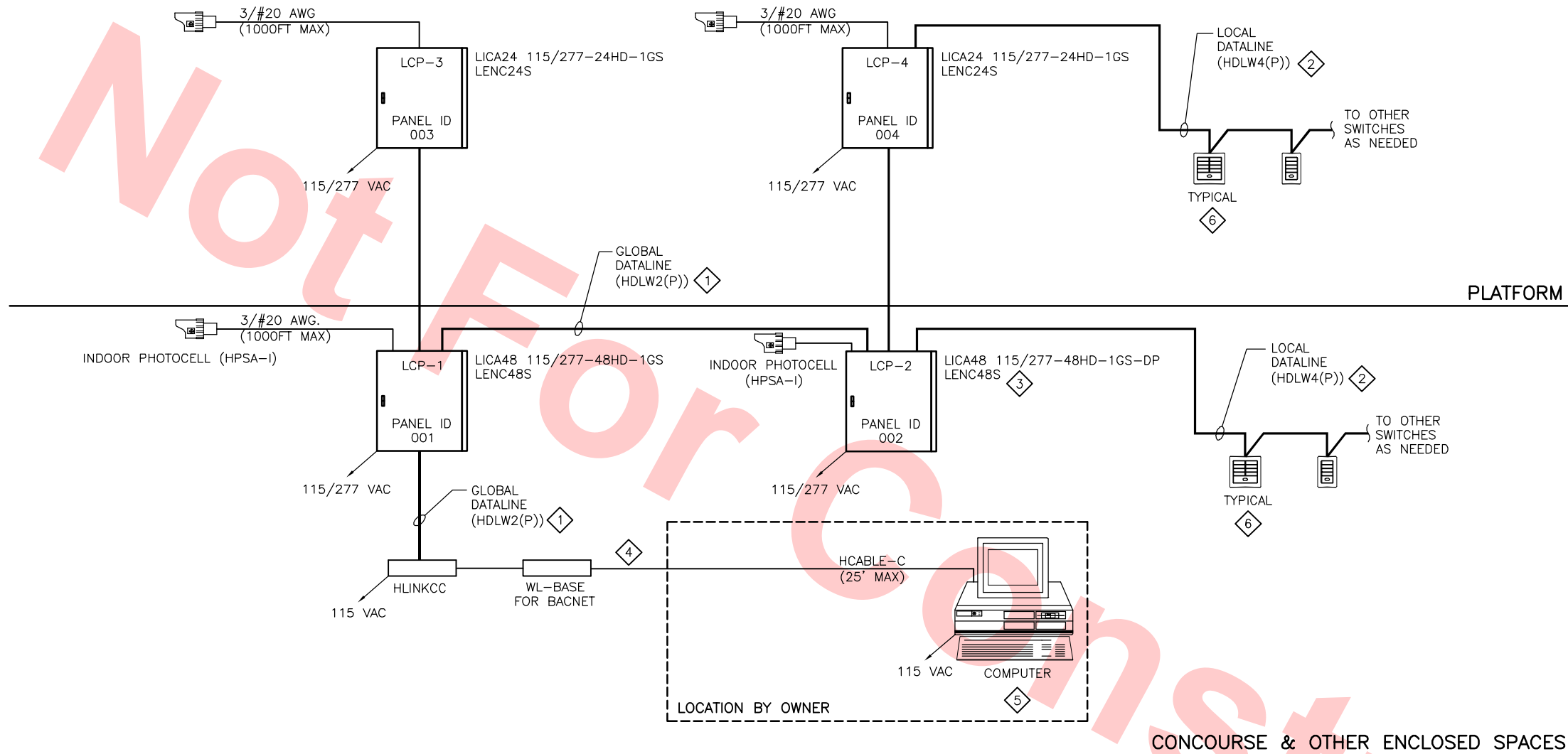
LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
INTERFACE MANHOLE DETAILS

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CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. E542
	PAGE NO. 0932

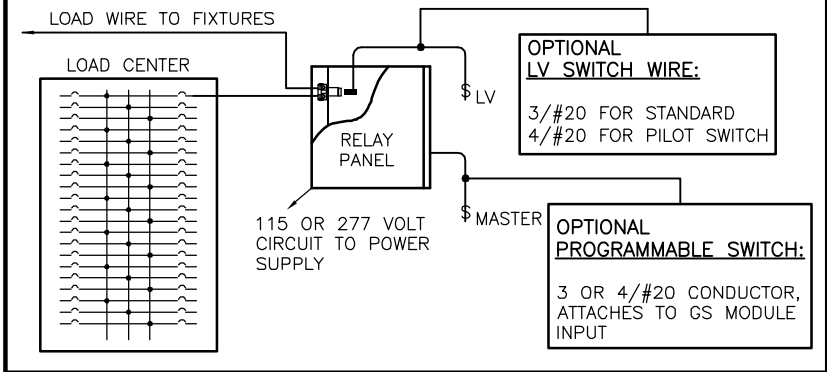
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INDOOR PHOTOCELL (HPSA-I)

INDOOR PHOTOCELL (HPSA-I)



TYPICAL RELAY PANEL CONNECTIONS



LIGHTING INTEGRATOR PART NUMBER CONSISTS OF THE FOLLOWING COMPONENTS:

1. TUB & COVER
2. POWER SUPPLY
3. INTERIOR INCLUDING, MOTHER BOARD, RELAY DRIVER CARDS, COMMUNICATION CARD, AUTOMATION CARD, GROUP SWITCH CARD(S), RELAYS INSTALLED IN BARRIER.

KEY NOTES

- 1 THE GLOBAL DATALINE IS A 2/#18 TWISTED, SHIELDED DATALINE (HDLW2(P)) THAT SHOULD ONLY BE SPLICED IN THE LIGHTING CONTROL PANELS. THE DATALINE MAY BE SPLICED TO FORM A STAR OR FREE TOPOLOGY AS REQUIRED. DO NOT GROUND THE SHIELD. THE DATALINE ROUTING SHOWN IS DIAGRAMMATIC ONLY.
- 2 THE LOCAL DATALINE PROVIDES COMMUNICATION AND POWER TO DATALINE SWITCHES. THE MAXIMUM LENGTH OF A LOCAL DATALINE FROM EACH LI PANEL WITH AN AUTOMATION CARD IS (1500FT) USING FREE TOPOLOGY WITHOUT A REPEATER AND (8000FT) USING LINEAR TOPOLOGY.
- 3 THE DATALINE POWER SUPPLY/OPTIONS PANEL (HDPS1CC) CAN BE PLACED WITHIN THE LCP.
- 4 THE TCP/IP INTERFACE MODULE (WEBLINK) CONNECTS TO THE LIGHTING INTEGRATOR (LI) COMMUNICATION CARD GLOBAL DATALINE THROUGH THE HLINKCC DATALINE LINK USING THE HCABLE-C CABLE, AND TO THE ETHERNET SIDE USING A STANDARD RJ45 CONNECTOR. A 115V PLUG-IN TRANSFORMER IS SUPPLIED TO POWER THE HLANCC. A PC RUNNING WINCONTROL LIGHTING CONTROL SOFTWARE CONNECTS TO THE LI DATALINE THROUGH THE WEBLINK VIA ITS OWN CONNECTION TO THE ETHERNET NETWORK.
- 5 DESKTOP OR LAPTOP COMPUTER RUNNING WINCONTROL SOFTWARE.
- 6 A SINGLE DATALINE SWITCH BUTTON CAN CONTROL ANY GROUP OF RELAYS IN THE PANEL IT TERMINATES IN, OR, BY USING A GROUP CODE, CAN ALSO CONTROL RELAYS IN OTHER PANELS. AVAILABLE IN 1, 2, 4, OR 8 BUTTON SWITCHES.

Santa Clara Valley Transportation Authority

___NO EXCEPTIONS TAKEN (NET)
___MAKE CORRECTIONS NOTED (MCN)
___AMEND AND RESUBMIT (A/R)

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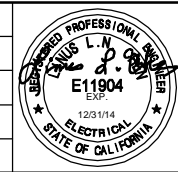
Contract No.: DB11002F

By: _____ Date: _____

E38

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 855-2337 Fax: (510) 855-2339

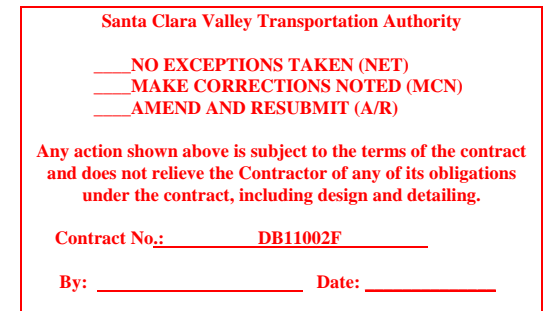
1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
A LEO A DALY COMPANY



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
LIGHTING SYSTEM CONTROL DIAGRAM
SHEET 1 OF 2

CADD FILENAME C700-S-DB-E545.dwg	CONTRACT NO. C700	REV. 0
SIZE D	SCALE NONE	AREA CODE DB
SHEET NO. E545	PAGE NO. 0933	

- 1 THE MAXIMUM LENGTH OF A LOCAL DATALINE FROM EACH LI PANEL WITH AN AUTOMATION CARD IS (1500FT) USING FREE TOPOLOGY WITHOUT A REPEATER AND (8000FT) USING LINEAR TOPOLOGY.
- 2 MAXIMUM 1000 FEET WITH #20 AWG WIRE. ADDITIONAL SWITCHES CONTROLLING THE SAME ZONE CAN BE CONNECTED IN THE FIELD OR AT THE RELAY PANEL TERMINALS.
- 3 THE GLOBAL DATALINE IS A 2/#18 TWISTED, SHIELDED DATALINE (HDLW2(P)) THAT SHOULD ONLY BE SPLICED IN THE LIGHTING CONTROL PANELS. THE DATALINE MAY BE SPLICED TO FORM A STAR OR FREE TOPOLOGY. 1500 FT MAX. TOTAL CONNECTED DATALINE LENGTH BETWEEN PANELS WITH A FREE TOPOLOGY SYSTEM. DO NOT GROUND THE SHIELD.



					DESIGNED BY G. LALWANI DRAWN BY G. MARAVILLA CHECKED BY L. CHEN IN CHARGE R. BARLAAN DATE 20130710			Skanska Shimmick Herzog 1436 California Circle Milpitas, California 95035 A Joint Venture		 BART SILICON VALLEY BERRYESSA EXTENSION	LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION		CADD FILENAME C700-S-DB-E546.dwg		
0 20130710 READINESS FOR CONSTRUCTION								Anil Verma Associates, Inc. 1970 Broadway, Suite 500 Phone: (910) 455-2529 Fax: (910) 455-2539			T-Y-LIN INTERNATIONAL APPROVED		CONTRACT NO. C700 REV. 0		
REV	DATE	BY	SUB	APP	DESCRIPTION			SUBMITTED	APPROVED		LIGHTING SYSTEM CONTROL DIAGRAM SHEET 2 OF 2		AREA CODE DB	SHEET NO. E546	PAGE NO. 0934

RELAY #	ZONE/FIXTURES	LOCATION	EMERGENCY BRANCH CKT	NORMAL BRANCH CKT	CONTROL DEVICE
1	B9—MH	COL 1—COL 5	EL251—9		
2	B9—MH	COL 1—COL 5		L13—7	
3	B2—LED	COL 5—COL 6	EL251—1		
4	B2—LED	COL 5—COL 6		L13—1	
5	B2—LED	COL 5—COL 6		L13—1	
6	B2—LED	COL 6—COL 14	EL251—7		
7	B2—LED	COL 6—COL 14		L13—4	
8	B1—FL	COL 6—COL 11	EL251—3		
9	B1—FL	COL 6—COL 11		L13—5	
10	B1—FL	COL 6—COL 11		L13—5	
11	B4—MH	COL 6—COL 11		L13—3	
12	B3—MH	COL 6—COL 10		L13—3	
13	B17—MH	COL 6—COL 10		L13—3	
14	B11—FL	COL 6—COL 10.5		L13—9	
15	B8—FL	COL 6—COL 11	EL251—5		
16	B10—LED	COL 6—COL 11		L13—2	
17	B7—FL	COL 6 & COL 10—11		L13—9	
18	B3—MH	STAIRS/ESCALATORS	EL251—4		
19	B1A—FL	STAIRS/ESCALATORS	EL251—4		
20	B6—LED	STAIRS HANDRAILS	EL251—6		
21	NEWEL COMB	ESCALATORS	EL251—6		
22		ELECTRICAL RM #1		L13—6	
23		ESCALATOR RM #3		L13—8	
24		VESTIBULE			
25		COMPUTER RM #1			
26		TELCO TM			
27		COMM TERM #1			
28		ELEC/ESC PARTS			
29		MAINTENANCE RM			
30		EMER EXIT #2			
31		STORAGE RM—5			
32		VALVE/PUMP RM			
33		COMM WORKSHOP			
34		ADMIN OFFICE			
35		STORAGE RM—L			
36		RESTROOM			
37		BREAK RM			
38		LOCKER RM			
39		STA AGENT BOOTH			
40		EXIT SIGNS	EL251—11		
41					
42					
43					
44					
45					
46					
47					
48					

LCP2—CONCOURSE LEVEL ELECTRICAL ROOM #2					
RELAY #	ZONE/FIXTURES	LOCATION	EMERGENCY BRANCH CKT	NORMAL BRANCH CKT	CONTROL DEVICE
1	B9—MH	COL 17—COL 23.5	EL252—9		
2	B9—MH	COL 17—COL 23.5		L14—9	
3	B2—LED	COL 16—COL 17	EL252—1		
4	B2—LED	COL 16—COL 17		L14—1	
5	B2—LED	COL 16—COL 17		L14—1	
6	B12—LED	COL 10.5—COL 12.5		L14—6	
7	B8—FL	COL 10.5—COL 12.5		L14—6	
8	B1—FL	COL 11—COL 16	EL252—3		
9	B1—FL	COL 11—COL 16		L14—5	
10	B1—FL	COL 11—COL 16		L14—7	
11	B4—MH	COL 13—COL 16		L14—3	
12	B3—MH	COL 13—COL 16		L14—3	
13	B17—MH	COL 13—COL 16		L14—3	
14	B11—FL	COL 10.5—COL 16		L14—11	
15	B8—FL	COL 11—COL 16	EL252—5		
16	B10—LED	COL 12—COL 16		L14—2	
17	B7—FL	COL 16		L14—11	
18	B3—MH	STAIRS/ESCALATORS	EL252—4		
19	B1A—FL	STAIRS/ESCALATORS	EL252—4		
20	B6—LED	STAIRS HANDRAILS	EL252—6		
21	NEWEL COMB	ESCALATORS	EL252—6		
22		MEN'S RESTROOM		L14—8	
23		WOMEN'S RESTROOM		L14—10	
24		GROUND MAINT			
25		COMPUTER RM #2			
26		JANITOR			
27		ELEV MACH RM			
28		HVAC RM			
29		TCR			
30		BATTERY RM #2			
31		BATTERY RM #1			
32		EMER EXIT #1			
33		TREASURY VAULT			
34		EMP RM			
35		STAFF LOCKER			
36		COMPUTER RM #3			
37		STAFF BREAK RM			
38		ELECTRICAL RM #2			
39		STAFF RESTROOM			
40		CAR CLEANING OFF	EL252—11		
41		EXIT SIGNS			
42					
43					
44					
45					
46					
47					
48					

Santa Clara Valley Transportation Authority

☐ NO EXCEPTIONS TAKEN (NET)
☐ MAKE CORRECTIONS NOTED (MCN)
☐ AMEND AND RESUBMIT (A/R)

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Santa Clara Valley Transportation Authority

☐ NO EXCEPTIONS TAKEN (NET)
☐ MAKE CORRECTIONS NOTED (MCN)
☐ AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ **Date:** _____

LCP3-PLATFORM LEVEL ELECTRICAL ROOM #3					
RELAY #	ZONE/FIXTURES	LOCATION	EMERGENCY BRANCH CKT	NORMAL BRANCH CKT	CONTROL DEVICE
1	B13-FL	COL 1-COL 11.5	EL251-2		
2	B13-FL	COL 1-COL 11.5		L15-5	
3	B13-FL	COL 1-COL 11.5		L15-7	
4	B14-MH	COL 1-COL 4		L15-1	
5	B15-FL	COL 4-COL 9		L15-3	
6	B3A,B3B-MH	COL 4-COL 9	EL251-10		
7	B16-LED	COL 9-COL 11		L15-2	
8	B16-LED	COL 9-COL 11		L15-4	
9	B5-MH	COL 9-COL 14		L15-6	
10	B32	COL 10-COL 11		L15-6	
11		NORTH ROOMS			
12		FIRE DEPT STORAGE			
13		ELECTRICAL RM #3			
14		CARWASH EQPT RM 1			
15		COMM TERM RM #2			
16		ATTENDANT RM			
17					
18					
19					
20					
21					
22					
23					
24					

LCP4—PLATFORM LEVEL ELECTRICAL ROOM #4					
RELAY #	ZONE/ FIXTURES	LOCATION	EMERGENCY BRANCH CKT	NORMAL BRANCH CKT	CONTROL DEVICE
1	B13-F	COL 11.5-COL 21	EL252-2		
2	B13-F	COL 11.5-COL 21		L16-5	
3	B13-F	COL 11.5-COL 21		L16-7	
4	B14-MH	COL 19-COL 21		L16-1	
5	B15-F	COL 14-COL 18		L16-3	
6	B3A,B3B-MH	COL 14-COL 18	EL252-10		
7	B16-LED	COL 12-COL 14		L16-2	
8	B16-LED	COL 12-COL 14		L16-4	
9	B5-MH	COL 9-COL 14		L16-6	
10	B32-MH	COL 12-COL 13		L16-6	
11	FL	SOUTH ROOMS			
12		CAR KIOSK #1			
13		CAR KIOSK #2			
14		CARWASH EQPT RM 2			
15		ELECTRICAL RM #4			
16		JANITOR RM #2			
17		E OF L 1ST LEVEL			
18		E OF L 2ND LEVEL			
19					
20					
21					
22					
23					
24					

						DESIGNED BY G. LAWANI
						DRAWN BY G. MARAVILLA
						CHECKED BY L. CHEN
						IN CHARGE R. BARLAAN
0	20130710				READINESS FOR CONSTRUCTION	DATE 20130710
REV	DATE	BY	SUB	APP	DESCRIPTION	

DESIGNED BY	G. LAWANI
DRAWN BY	G. MARAVILLA
CHECKED BY	L. CHEN
IN CHARGE	R. BARLAAN
DATE	20130710



Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

LEN Lockwood, Andre
& Newnam, Inc.
A LEO A DALY COMPANY

LEN Lockwood, Andrews & Newnam, Inc. **T-Y-LIN INTERNATIONAL**
A LEO A DALY COMPANY



BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
LIGHTING SYSTEM
LIGHTING CONTROL PANEL
RELAY SCHEDULES

CADD FILENAME C700-S-DB-E547.dwg		
SIZE D	SCALE NONE	
CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. E547	PAGE NO. 0935



CONSTRUCTION NOTES

1. FURNISH AND INSTALL CITEA+NUN'ALVARES LARGE MODEL LUMINAIRE POLE WITH 1500 BRACKET, MOUNTED 26' ABOVE THE GROUND (150 W) AND REAR BRACKET, MOUNTED 13' ABOVE THE GROUND (100 W).
2. FURNISH AND INSTALL CITEA+NUN'ALVARES DOUBLE HEAD LARGE MODEL LUMINAIRE POLE WITH 1000 BRACKET, MOUNTED 26' FROM THE GROUND (150 W).
3. FURNISH AND INSTALL CALTRANS STANDARD TYPE 15 LUMINAIRE, MOUNTED 39' FROM THE GROUND (250 W).
4. FURNISH AND INSTALL CALTRANS STANDARD TYPE 15D LUMINAIRE, MOUNTED 39' FROM THE GROUND (310 W).
5. FURNISH AND INSTALL VTA STANDARD DOUBLE HEAD ELECTROLIER FIXTURE, MOUNTED 20' FROM THE GROUND (150 W).
6. FURNISH AND INSTALL VTA STANDARD SINGLE HEAD ELECTROLIER FIXTURE, MOUNTED 20' FROM THE GROUND (150 W).
7. FURNISH AND INSTALL CITEA+NUN'ALVARES SMALL MODEL LUMINAIRE POLE WITH SINGLE MOUNTING, MOUNTED 13' FROM THE GROUND (100 W).
8. FURNISH AND INSTALL CITEA+NUN'ALVARES SINGLE HEAD LARGE MODEL LUMINAIRE POLE WITH 1000 BRACKET, MOUNTED 26' FROM THE GROUND (150 W).
9. FURNISH AND INSTALL LUMINAIRE ON TRAFFIC SIGNAL POLE, SEE TRAFFIC SIGNAL PLANS FOR LUMINAIRE INFORMATION.

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: Date:

KEY PLAN - CAMPUS AREA - LIGHTING

SCALE: 1/128"=1'-0"

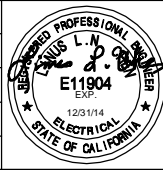


GRAPHIC SCALE

Jul 03, 2013 - 2:00pm C:\GIS\Maravilla\Milpitas Station\Projects\Sheet\CT00-S-DB-E550.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LALWANI
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Phone: (910) 405-2537 Fax: (910) 536-2339
Oakland, CA 94612

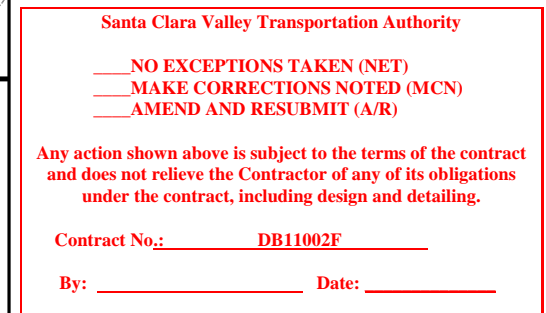
1436 California Circle
Milpitas, California 95035
A Joint Venture
Lookwood, Andrews & Nowman, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



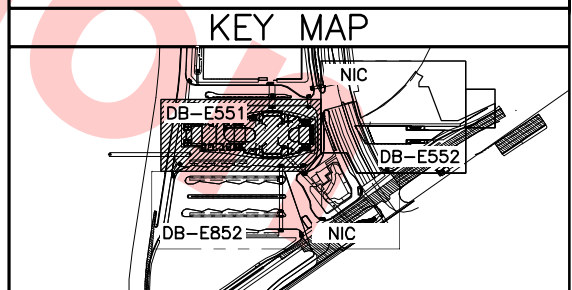
LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
KEY PLAN CAMPUS AREA
LIGHTING

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SIZE SCALE D 1/128"=1'-0"	0
CONTRACT NO. C700	
AREA CODE SHEET NO. DB E550	PAGE NO. 0936

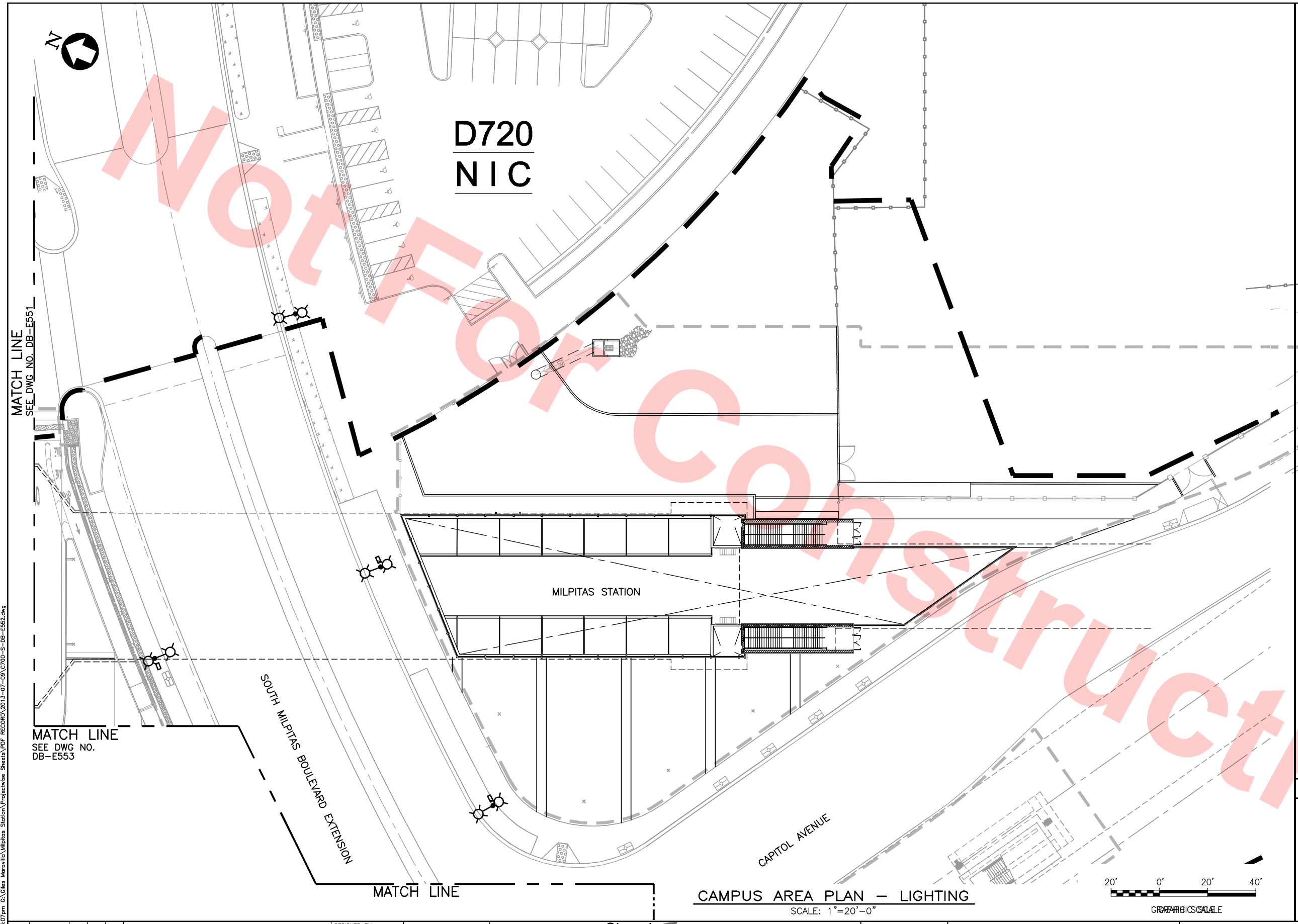
1. RUN 2-2" C IN CONCRETE ENCLOSED DUCTBANK.
RUN MINIMUM 3'-0" BELOW FINISHED FLOOR.



SCALE: 1"=20'-0"



Jul 09, 2013 - 3:05pm G:\Ciles Maravilla\Milpitas Station\Projectwise Sheets\PDF RECORD\2013-07-09\C700-S-DB-E551.dwg



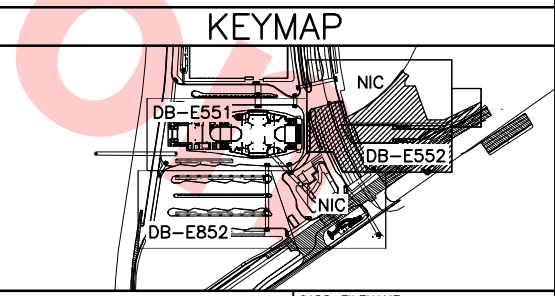
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

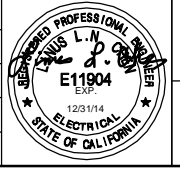
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION



DESIGNED BY: G. LALWANI
DRAWN BY: G. MARAVILLA
CHECKED BY: L. CHEN
IN CHARGE: R. BARLAAN
DATE: 20130710

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Skanska Shimmick Herzog

Lookwood, Andrews & Nowman, Inc.
A LEI A BALLY COMPANY

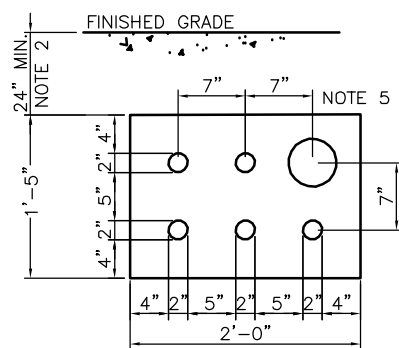
T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION

CAMPUS AREA PLAN - LIGHTING
SHEET 2 OF 2

CADD FILENAME	C700-S-DB-E552.dwg
SIZE	D
SCALE	1"=20'-0"
CONTRACT NO.	C700
REV.	0
AREA CODE	DB
SHEET NO.	E552
PAGE NO.	0938



SECTION E-E

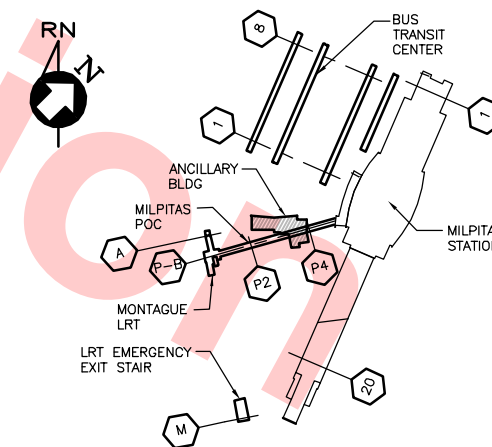


ELECTRICAL SITE PLAN
SCALE: 1"=10'

1. FOR ELECTRICAL ABBREVIATIONS, LAYOUT SYMBOLS AND DIAGRAM SYMBOLS, REFER TO DRAWINGS DB-E001, DB-E002 AND DB-E003.
2. SEE NEC 2011 TABLE 300.5 FOR MINIMUM BURIAL DEPTH.
3. CONDUIT AND CABLE ROUTING TO BE FINALIZED BY CONTRACTOR
4. FOR ADDITIONAL SECTIONS AND DETAIL HAND HOLE SEE DRAWING DB-E825.
5. ALL CONDUIT ROUTINGS IN DUCTBANK SHALL BE CONCRETE ENCASED.
6. COMMUNICATION BOX INTERFACE. TYPICAL FOR 5 LOCATIONS.
7. PROVIDE RACKS IN DUCTBANKS AND HANDHOLES AT AVAILABLE WALLS AND AREAS FOR PROPER ROUTING OR RACKING OF CABLES.

GRAPHIC SCALE

KEY PLAN



2013 Jun 26, 2013 - 21:00 Item#						DESIGNED BY R. CRUZ
						DRAWN BY P. NG
						CHECKED BY L. CHEN
						IN CHARGE R. BARLAAN
	0	20130710			READINESS FOR CONSTRUCTION	DATE 20130710
	REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY	R. CRUZ
DRAWN BY	P. NG
CHECKED BY	L. CHEN
IN CHARGE	R. BARLA
DATE	201307



Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

 **Anil Verma Associates, Inc.**
1970 Broadway, Suite 525 Oakland, CA 94612
Phone: (510) 535-2537 Fax: (510) 535-2339

LAN Lockwood, Andrews & Nownam, Inc. **T-Y-LIN INTERNATIONAL**
A LEO A DALY COMPANY

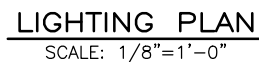
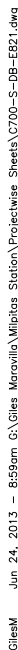


BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
ANCILLARY BUILDING

ELECTRICAL SITE PLAN

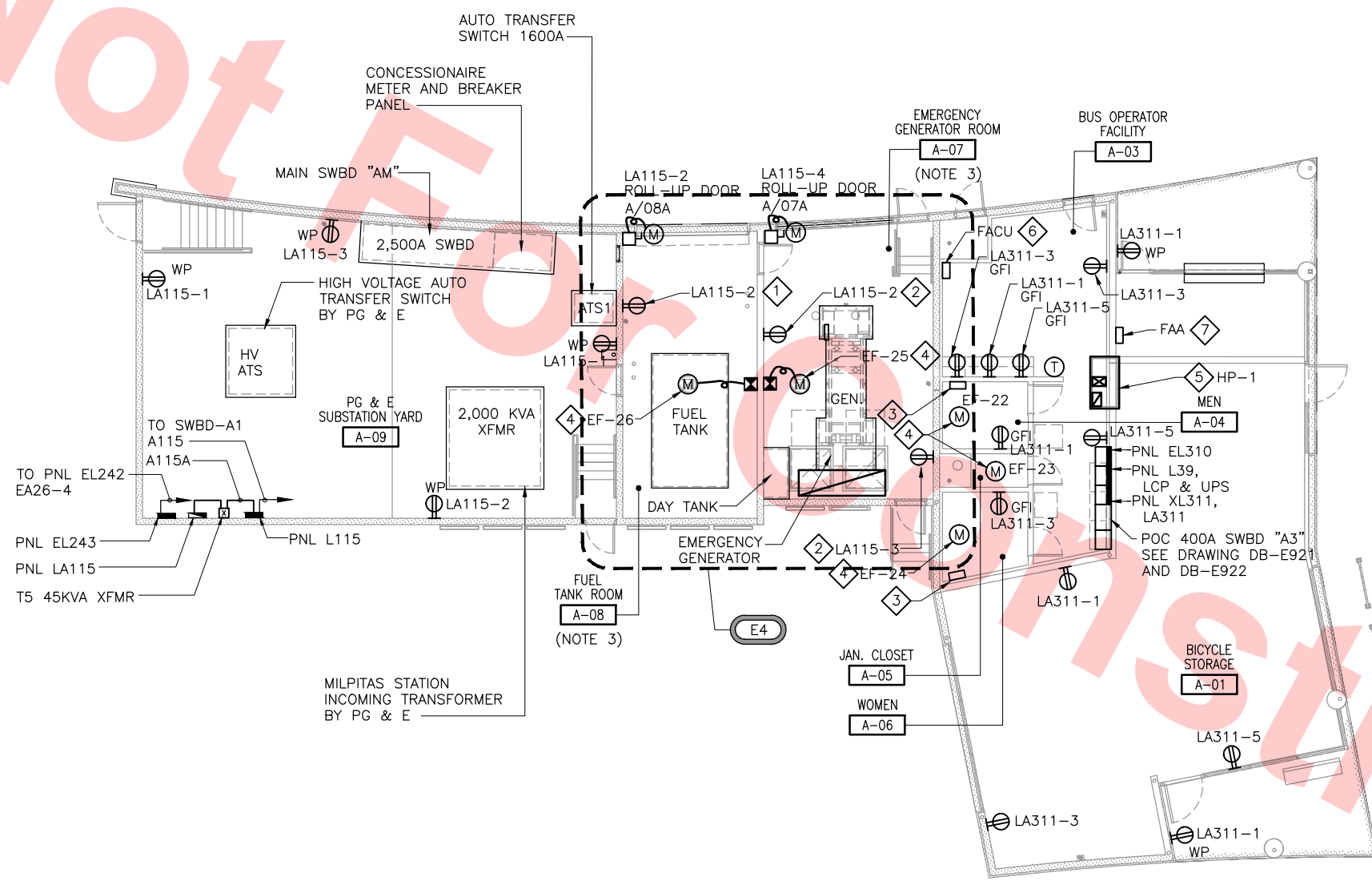
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SIZE D	SCALE AS NOTED	
CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. E820	PAGE NO. 0939



By: _____ **Date:** _____

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SIZE D	SCALE 1/8"=1'-0"	
CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. E821	PAGE NO. 0940

Jun 24, 2013 - 8:59am G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E822.dwg



Santa Clara Valley Transportation Authority

____ **NO EXCEPTIONS TAKEN (NET)**
____ **MAKE CORRECTIONS NOTED (MCN)**
____ **AMEND AND RESUBMIT (A/R)**

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: **DB11002F**

By: _____ Date: _____

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

KEY NOTES

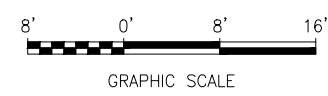
- 1 EXPLOSION PROOF RECEPTACLE. CLASS 1 DIV. 1
- 2 EXPLOSION PROOF RECEPTACLE. CLASS 1 DIV. 2
- 3 ELECTRIC WALL HEATER
- 4 CEILING EXHAUST FAN
- 5 HEAT PUMP ON ROOF.
- 6 FACU (FIRE ALARM CONTROL UNIT)
- 7 FAA (FIRE ALARM ANNUNCIATOR WITH CONTROL)

NOTES

- 1. FOR ABBREVIATIONS AND GENERAL NOTES SEE SHEET DB-E001 AND DB-004.
- 2. SET THERMOSTAT AT 82°F
- 3. ALL CONDUITS SHALL BE GRS. CONDUITS IN ROOMS A-07 AND A-08 SHALL RUN CONCEALED IN WALLS AND IN FLOORS.
- 4. FOR FUEL OIL TANK AND DIESEL GENETATOR ROOM MOTORS AND DISC SWITCH SHALL BE DIV. 1, CLASS 2 ENCLOSURES.
- 5. FOR EQUIPMENT CIRCUIT, SEE TABULATION BELOW.

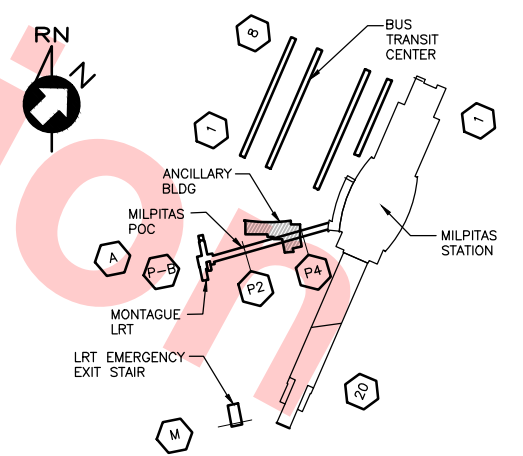
EQUIP. TABULATIONS

EQUIP. ID	VOLT/PH	PNL. CKT.
EF-22	120/1	LA311-11
EF-23	120/1	LA311-11
EF-24	120/1	LA311-11
EF-25	120/1	LA115-2
EF-26	120/1	LA115-2
FACU	120/1	EL310-2
FAA	120/1	EL310-4
HP-1	208/1	LA311-7,9



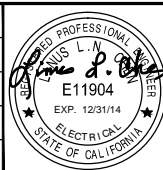
GRAPHIC SCALE

KEY PLAN



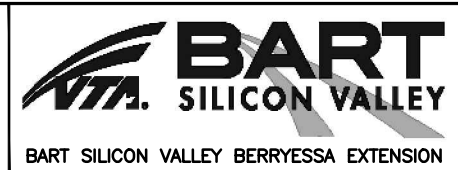
REV	DATE	BY	SUB	APP	DESCRIPTION
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DESIGNED BY
R. CRUZ
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130430



Skanska Shimmick Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews & Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



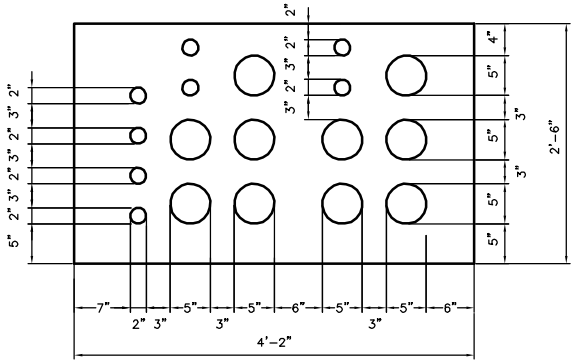
LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
ANCILLARY BUILDING
POWER PLAN

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SIZE SCALE D 1/8"=1'-0"	
CONTRACT NO. C700	
AREA CODE DB	SHEET NO. E822
	PAGE NO. 0941

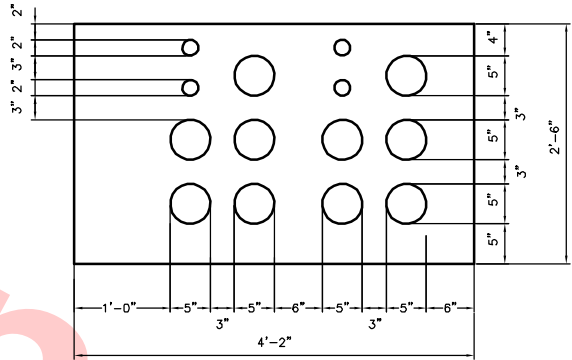
C:\Users\jlawani\Documents\Projects\BART\BART-SILICON VALLEY\BART-SILICON VALLEY.dwg
Jun 26, 2013 2:29pm C:\Users\jlawani\Documents\Projects\BART\BART-SILICON VALLEY.dwg

NOTES

1. ALL CONDUITS IN DUCT BANK SHALL RUN UNDERGROUND AND THE TOP OF THE DUCT BANK SHALL BE 30 INCHES BELOW THE GROUND SURFACE.
2. FOR ALL SECTIONS AND DETAIL SHOWN ON THIS DRAWING, REFER TO DRAWING DB-E820.
3. PROVIDE RACKS IN DUCTBANKS AND HANDHOLES AT AVAILABLE WALLS AND AREAS FOR PROPER ROUTING OR RACKING OF CABLES.



SECTION A-A



SECTION B-B

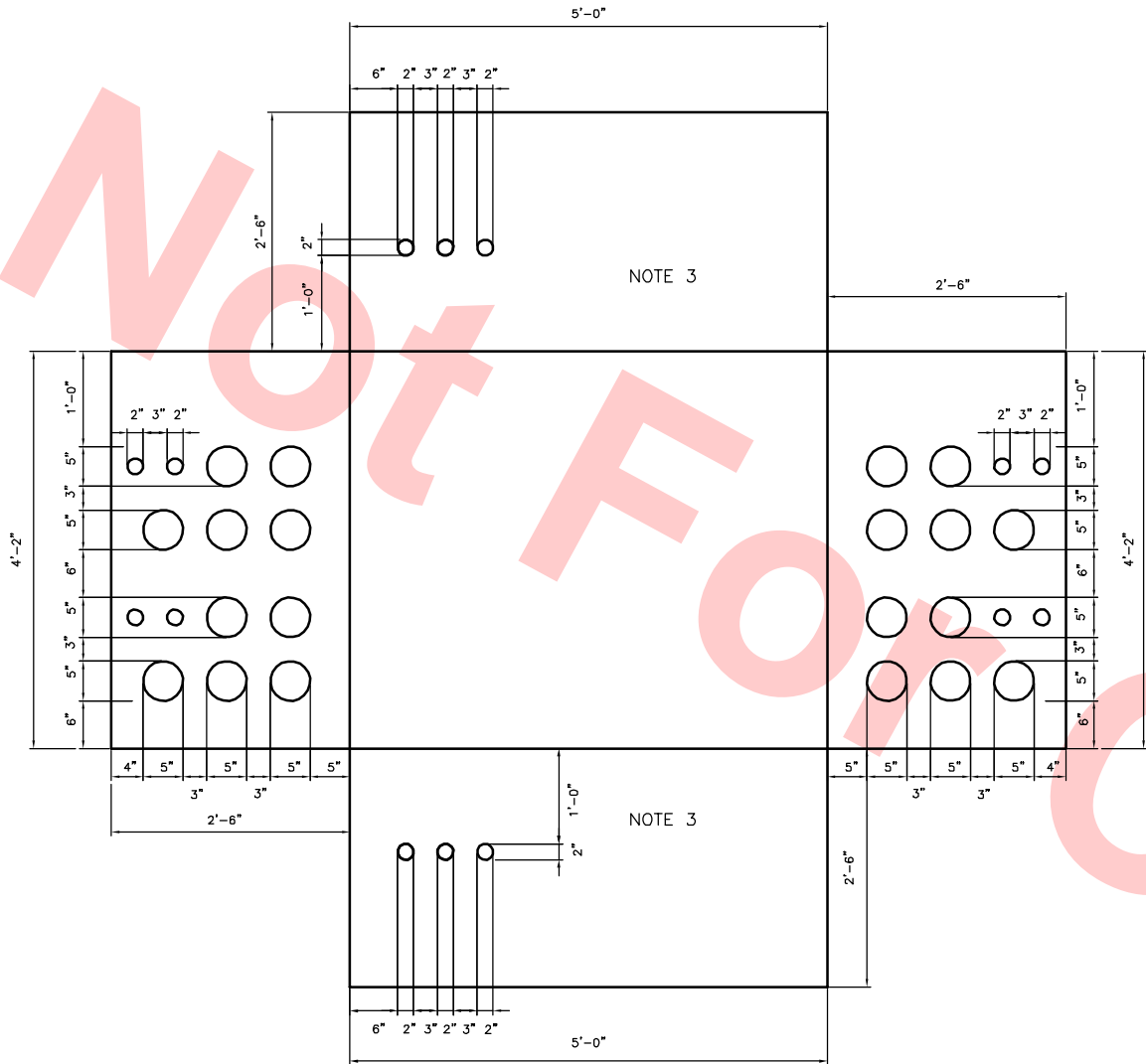
Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

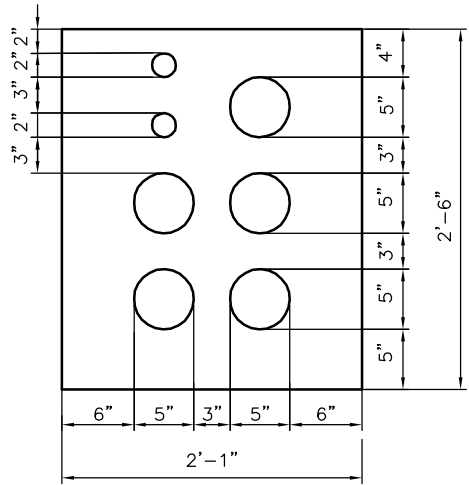
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

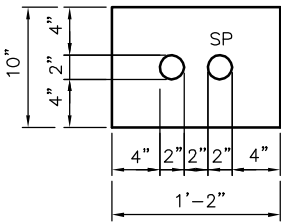
By: _____ Date: _____



HAND HOLE DETAIL



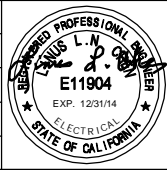
SECTION H-H



SECTION J-J

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
G. LAWANI
DRAWN BY
P. NG
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



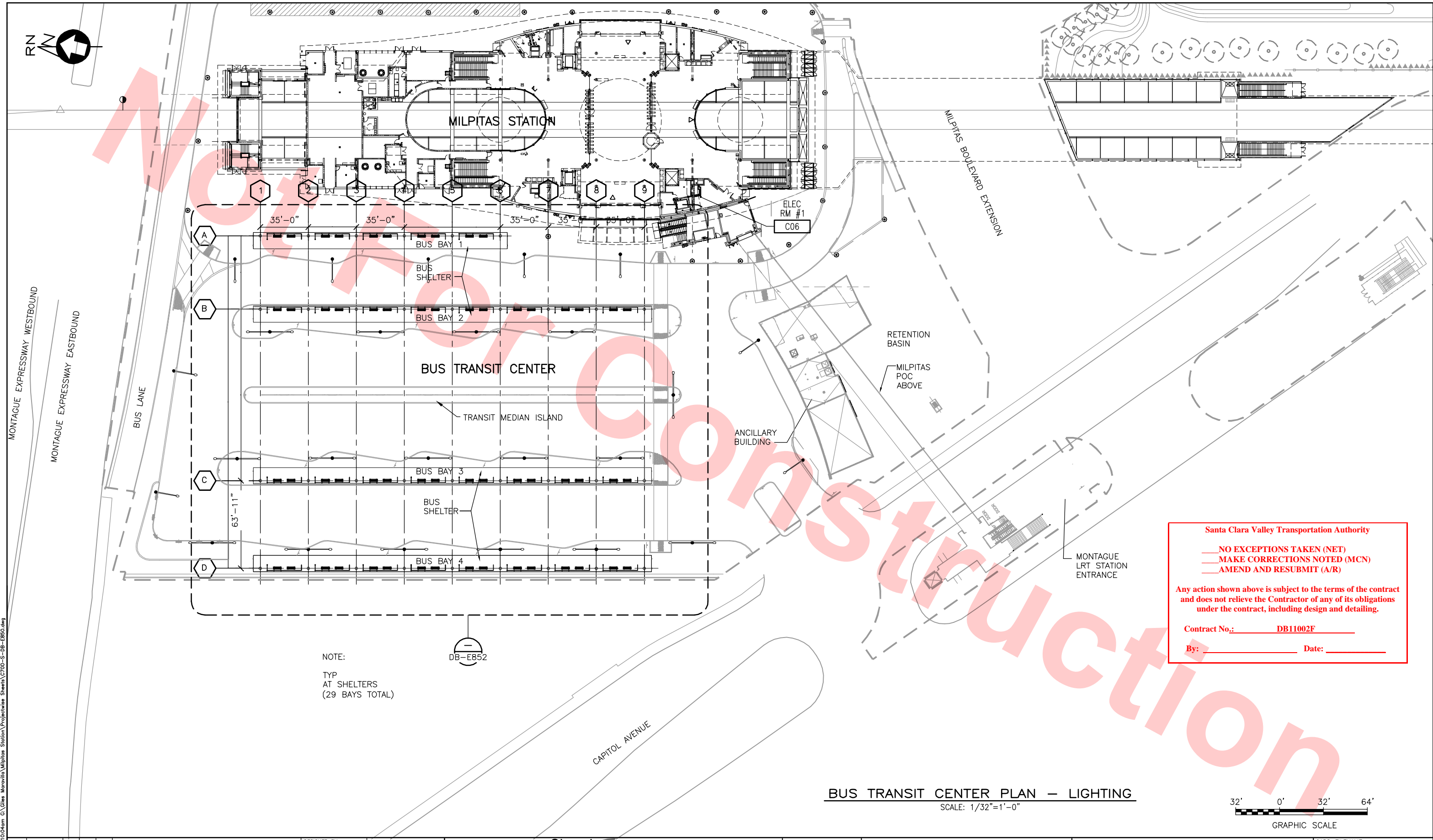
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 420
Milpitas, California 95035
Phone: (415) 455-2537 Fax: (415) 535-2339
SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lookwood, Andrews
& Newman, Inc.
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
ANCILLARY BUILDING
UNDERGROUND DUCTBANK DETAILS

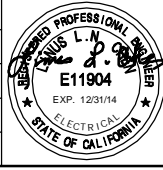
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AREA CODE DB	SHEET NO. E825	PAGE NO. 0942



Jun 24, 2013 - 10:04am C:\Cities\Maravilla\Milpitas Station\Projectwires Sheets\700-S-DB-E850.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
R. CRUZ
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska Shimmick Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 420, Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

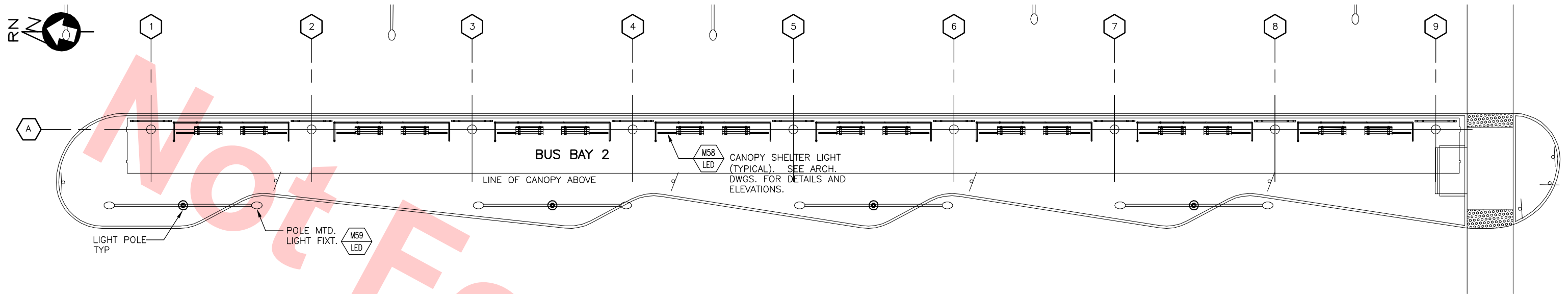
1436 California Circle
Milpitas, California 95035
A Joint Venture
Lookwood, Andrews & Nowman, Inc.
T-Y-LIN INTERNATIONAL
APPROVED *[Signature]*



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
TRANSIT CENTER BUS SHELTER
BUS TRANSIT CENTER
SITE PLAN

CADD FILENAME C700-S-DB-E850.dwg	REV. 0
SIZE D	SCALE 1/32"=1'-0"
CONTRACT NO. C700	SHEET NO. E850
AREA CODE DB	PAGE NO. 0943

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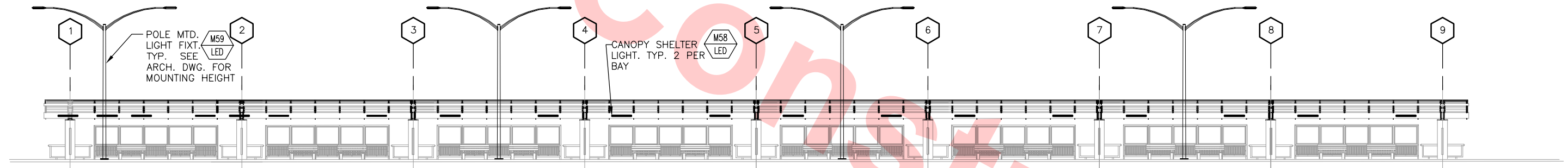


PLAN OF BUS BAY 2 - LIGHTING

SCALE: 3/32"=1'-0"

B
DB-E851

DB-E852



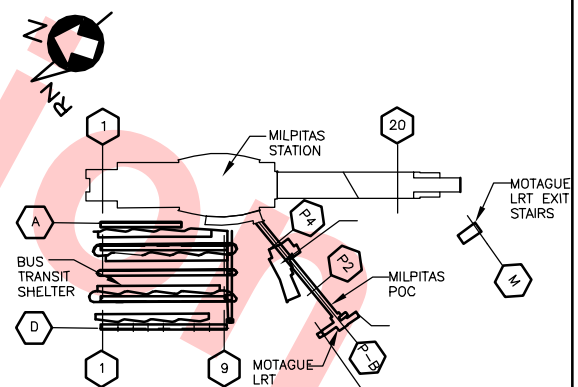
ELEVATION OF BUS BAY 2 - LIGHTING

SCALE: 3/32"=1'-0"

A
DB-E851

4' 0' 4' 12' 20' 28'
GRAPHIC SCALE

KEY PLAN



Santa Clara Valley Transportation Authority

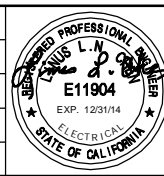
___ NO EXCEPTIONS TAKEN (NET)
___ MAKE CORRECTIONS NOTED (MCN)
___ AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

DESIGNED BY
R. CRUZ
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Submitted
Anil Verma Associates, Inc.
1970 Broadway, Suite 420
Phone: (510) 455-2537 Fax: (510) 535-2339
Oakland, CA 94612

Approved
Lookwood, Andrews & Nowman, Inc.
A LEA A BALLY COMPANY
T-Y-LIN INTERNATIONAL

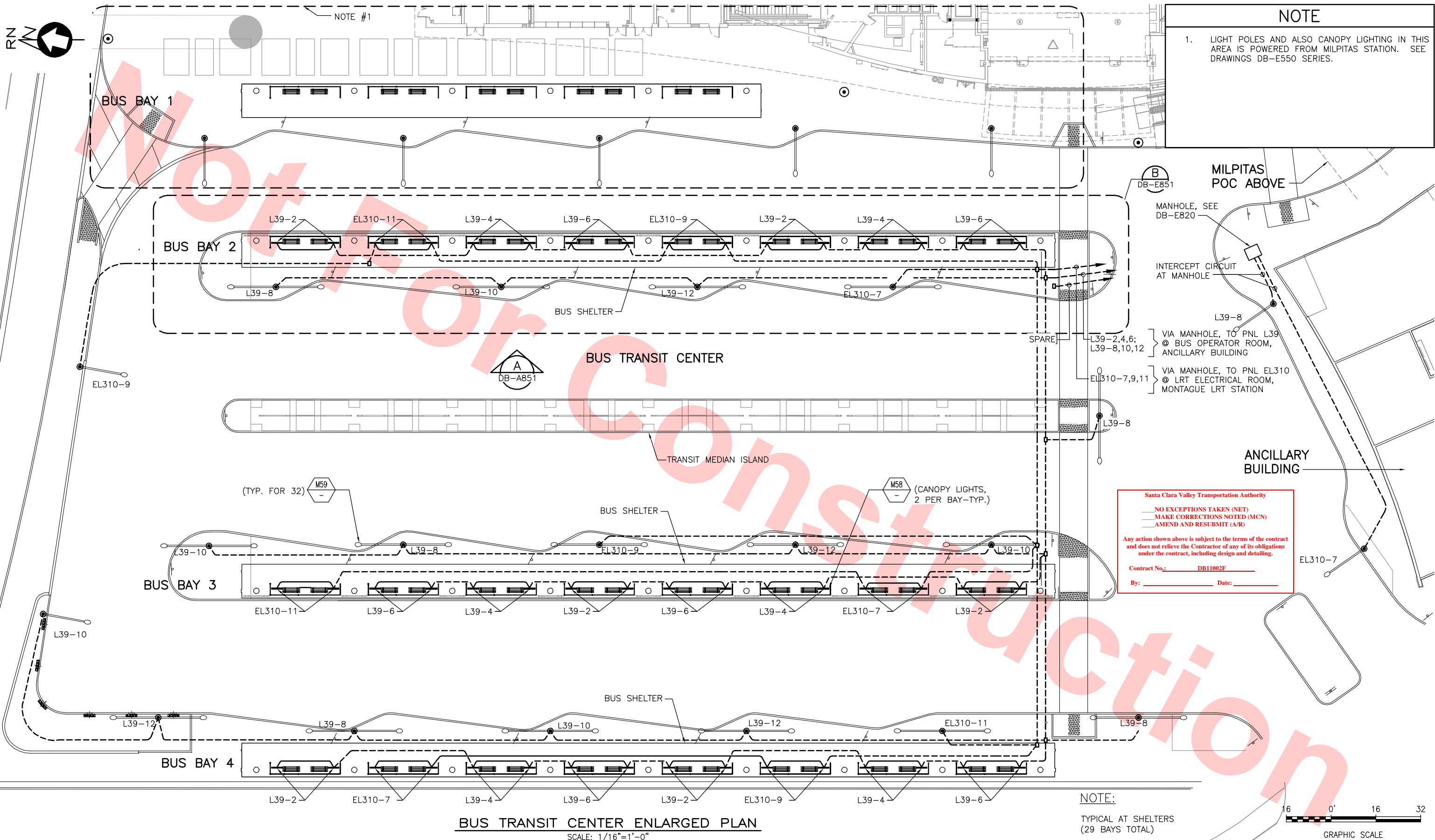


LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
TRANSIT CENTER BUS SHELTER

PLAN AND ELEVATION OF BUS BAY 2
LIGHTING

CADD FILENAME
C700-S-DB-E851.dwg
SIZE SCALE
D 3/32"=1'-0"
CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. DB E851 PAGE NO. 0944

Jun 24, 2013 - 10:08am C:\Users\Maravilla\Milpitas Station\Projects\Worksheets\700-S-DB-E852.dwg



NOTE

1. LIGHT POLES AND ALSO CANOPY LIGHTING IN THIS AREA IS POWERED FROM MILPITAS STATION. SEE DRAWINGS DB-E550 SERIES.

(B)
DB-E851

MILPITAS
POC ABOVE

MANHOLE, SEE
DB-E820

INTERCEPT CIRCUIT
AT MANHOLE

L39-8

L39-2,4,6;
L39-8,10,12

VIA MANHOLE, TO PNL L39
@ BUS OPERATOR ROOM,
ANCILLARY BUILDING

VIA MANHOLE, TO PNL EL310
@ LRT ELECTRICAL ROOM,
MONTAGUE LRT STATION

EL310-7,9,11

L39-8

ANCILLARY
BUILDING

EL310-7

Santa Clara Valley Transportation Authority

— NO EXCEPTIONS TAKEN (NET)
— MAKE CORRECTIONS NOTED (MCN)
— AMEND AND RESUBMIT (A/R)

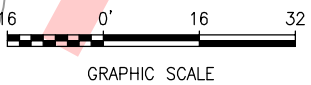
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

NOTE:

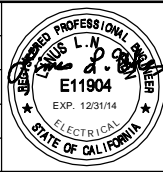
TYPICAL AT SHELTERS
(29 BAYS TOTAL)



BUS TRANSIT CENTER ENLARGED PLAN
SCALE: 1/16"=1'-0"

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
R. CRUZ
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog

Anil Verma Associates, Inc.
1970 Broadway, Suite 420, Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture

Lookwood, Andrews
& Nowman, Inc.
A LEO A DALY COMPANY

T-Y-LIN INTERNATIONAL

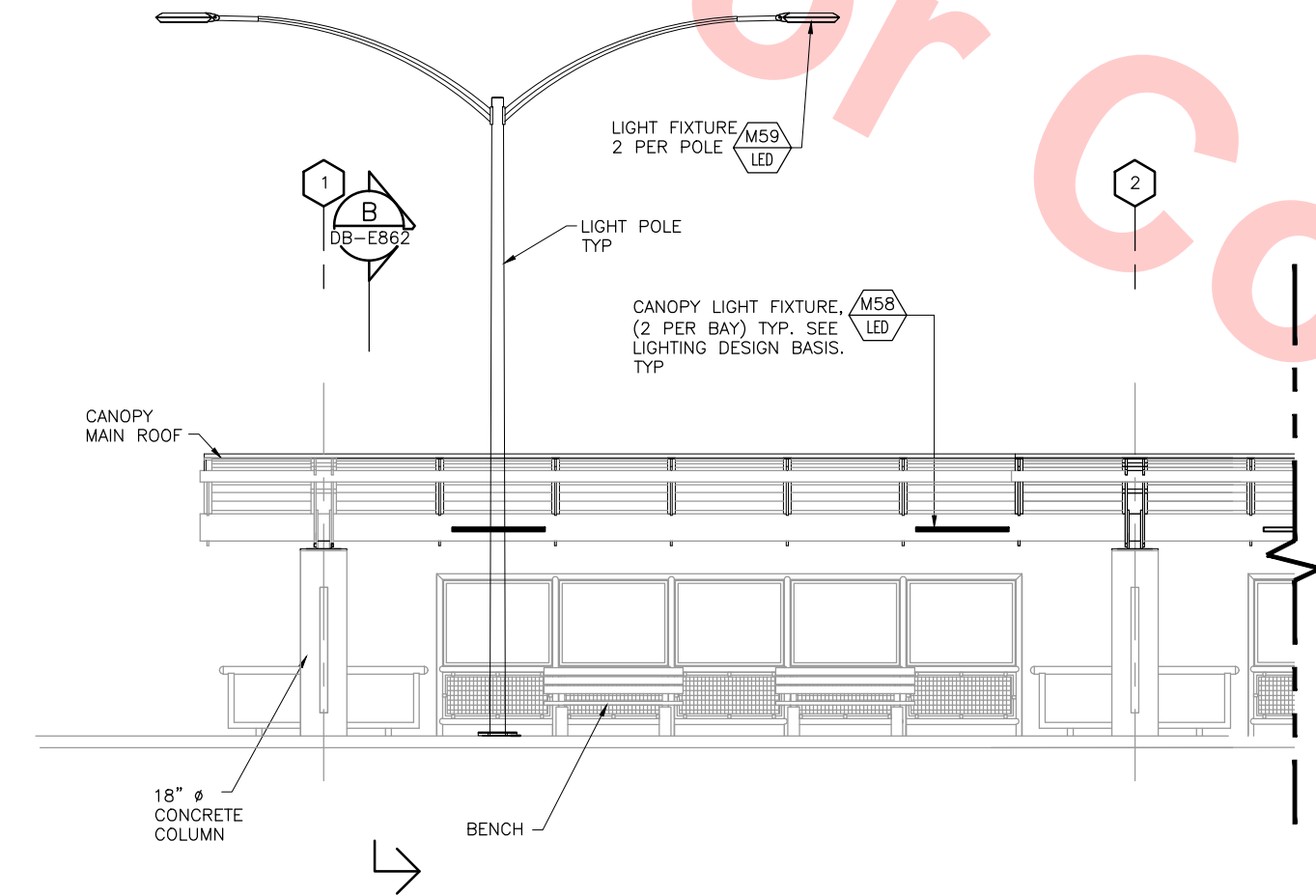


LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
TRANSIT CENTER BUS SHELTER

BUS TRANSIT CENTER ENLARGED PLAN
LIGHTING

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SIZE D	SCALE 1/16"=1'-0"
CONTRACT NO. C700	SHEET NO. E852
AREA CODE DB	PAGE NO. 0945

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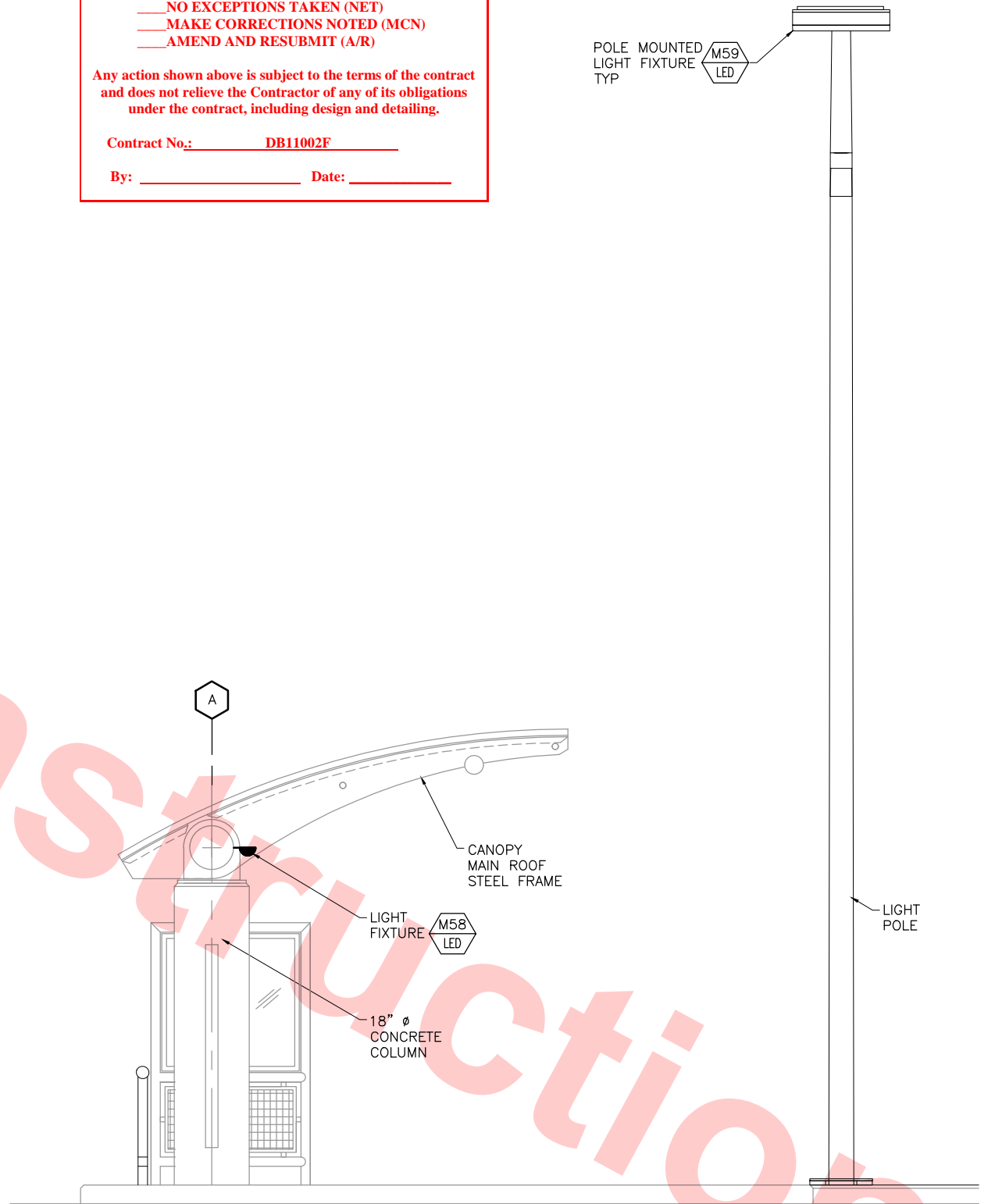


FRONT ELEVATION

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



DB-E862 DB-E861



SIDE ELEVATION

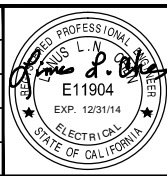
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DB-E862 DB-E861

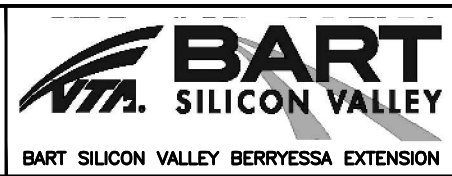
REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
R. CRUZ
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



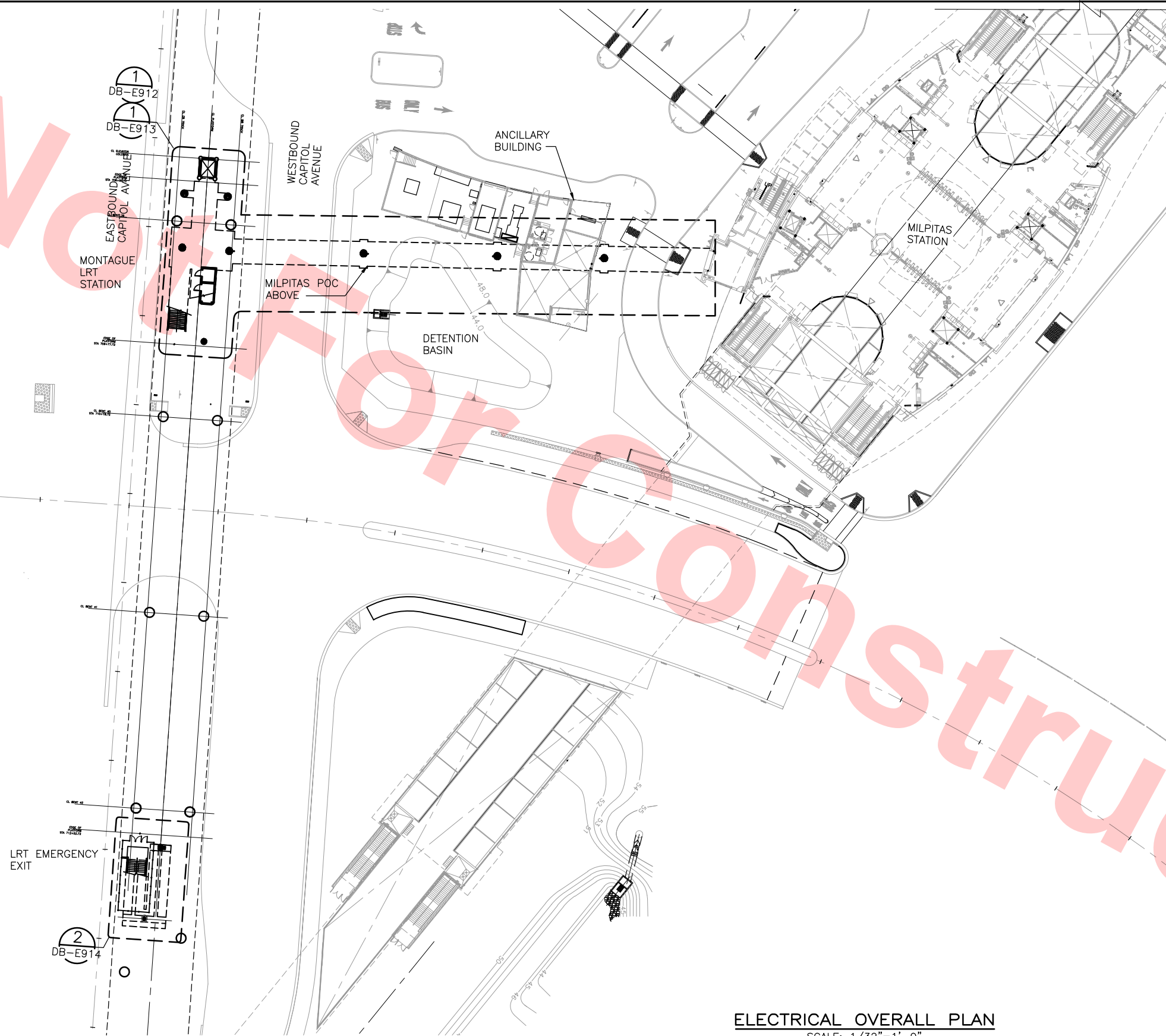
Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339
SUBMITTED

Lockwood, Andrews & Newnam, Inc.
A L&N A BARRY GROUP
T-Y-LIN INTERNATIONAL
APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
TRANSIT CENTER BUS SHELTER
DETAIL ELEVATION - LIGHTING

CADD FILENAME C700-S-DB-E862.dwg	SIZE D	SCALE AS NOTED
CONTRACT NO. C700	REV. 0	
AREA CODE DB	SHEET NO. E862	PAGE NO. 0946



ELECTRICAL OVERALL PLAN
SCALE: 1/32"=1'-0"

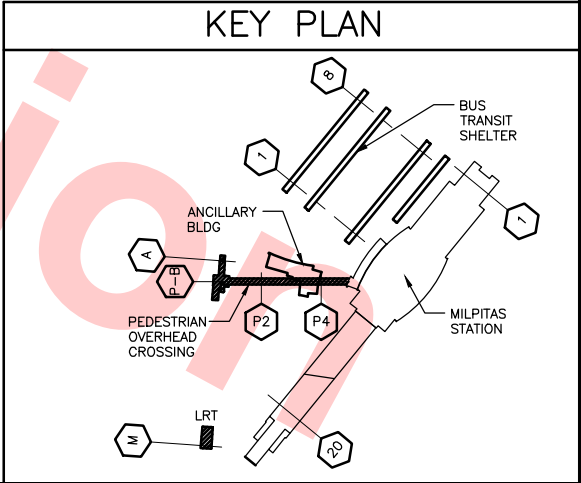
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

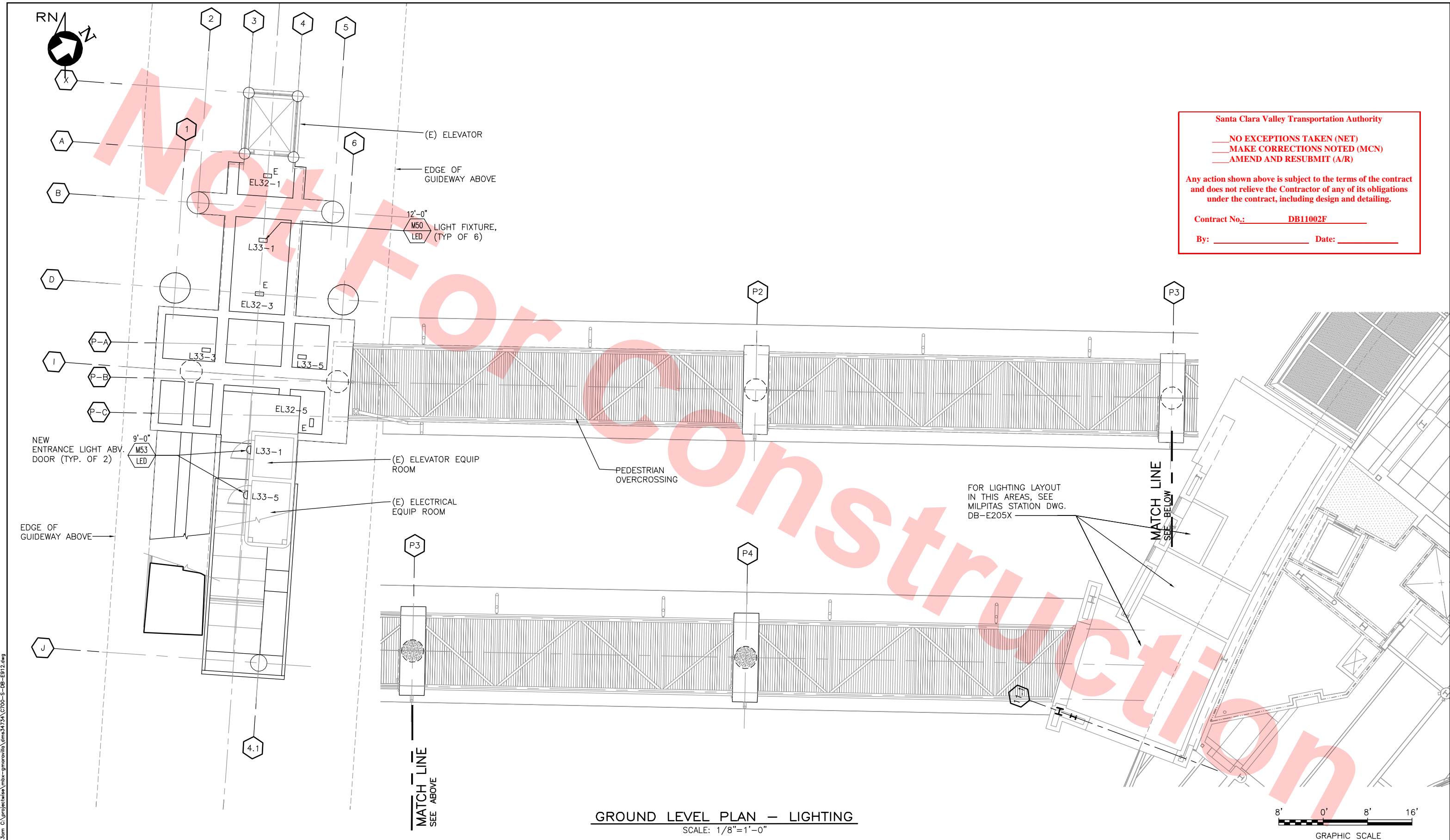
Contract No.: DB11002F

By: _____ Date: _____



Jun 24, 2013 8:53am G:\Giles Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E900.dwg

					DESIGNED BY R. CRUZ		Skanska Shimmick Herzog 1436 California Circle Milpitas, California 95035 A Joint Venture			BART SILICON VALLEY BART SILICON VALLEY BERRYESSA EXTENSION	LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MONTAGUE LRT & MILPITAS POC ELECTRICAL OVERALL PLAN			CADD FILENAME C700-S-DB-E900.dwg		
					DRAWN BY G. MARAVILLA									SIZE SCALE D 1/32"=1'-0"	CONTRACT NO. C700	REV. 0
					CHECKED BY L. CHEN									AREA CODE DB		
					IN CHARGE R. BARLAAN									SHEET NO. E900		
0	20130710				READINESS FOR CONSTRUCTION	20130710	SUBMITTED		APPROVED					PAGE NO. 0947		
REV	DATE	BY	SUB	APP	DESCRIPTION											



Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
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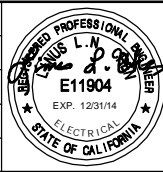
Contract No.: DB11002F

By: _____ Date: _____

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Jun 25, 2013 11:13am
G:\projects\lms-gmavilla\lms34734\0700-S-DB-E912.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
R. CRUZ
DRAWN BY
G. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog

Anil Verma Associates, Inc.
1970 Broadway, Suite 420
Milpitas, California 95035
Phone: (415) 455-2537 Fax: (415) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture

Lookwood, Andrews
& Nowman, Inc.
A LEA A BALLY COMPANY

T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MONTAGUE LRT & MILPITAS POC			
GROUND LEVEL PLAN LIGHTING			
CADD FILENAME C700-S-DB-E912.dwg	SIZE D	SCALE 1/8"=1'-0"	REV. 0
CONTRACT NO. C700	AREA CODE DB	SHEET NO. E912	PAGE NO. 0948



NOTE

- FOR LIGHTING FIXTURE SCHEDULE SEE DRAWING DB-E515 AND DB-E516
- FOR ELECTRICAL ABBREVIATION AND LAYOUT SYMBOL SEE DB-001X AND DB-002X.

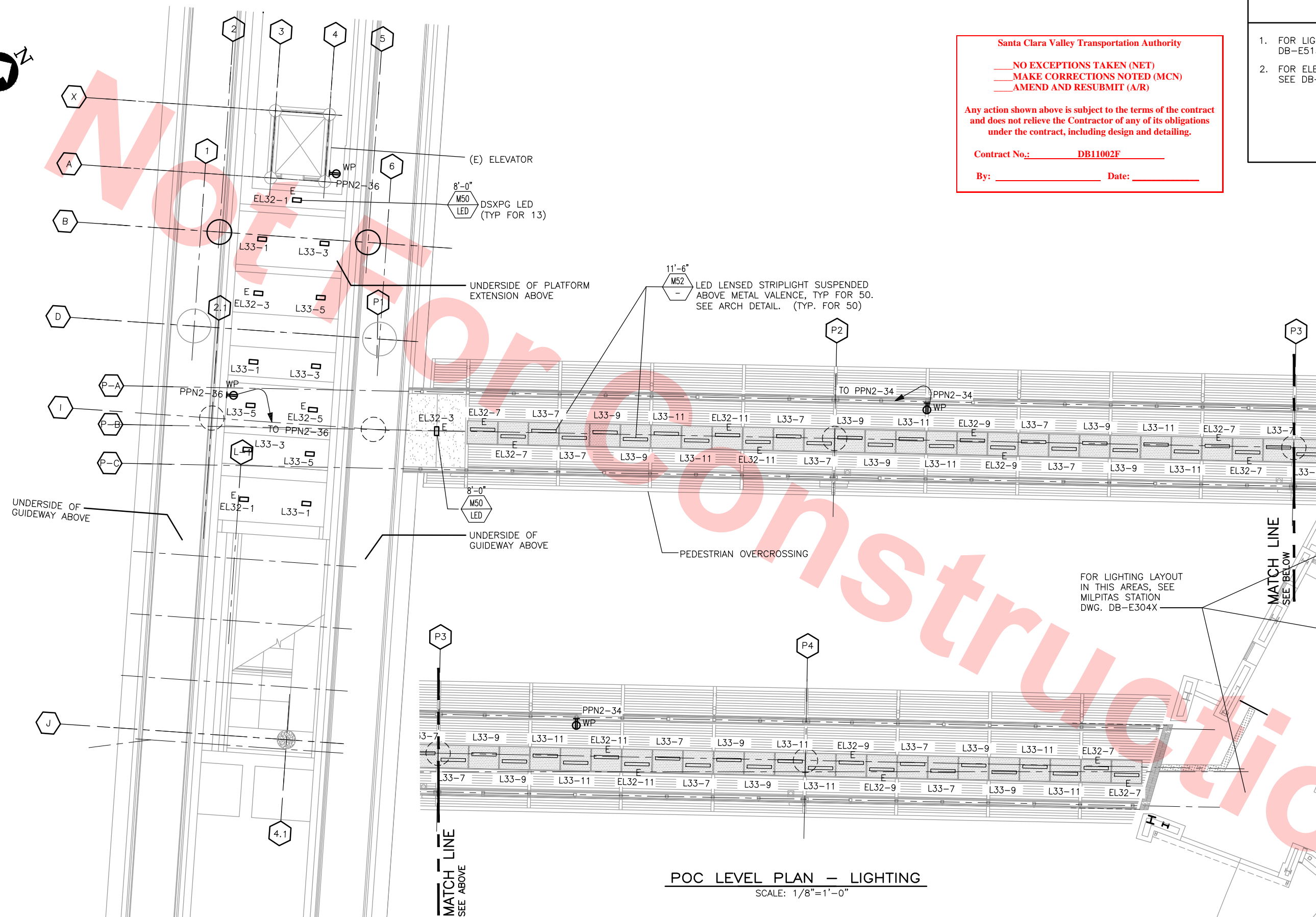
Santa Clara Valley Transportation Authority

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Contract No.: DB11002F

By: _____ Date: _____

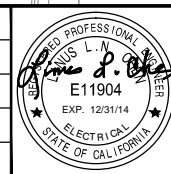


POC LEVEL PLAN — LIGHTING
SCALE: 1/8"=1'-0"

Jun 24, 2013 10:12am G:\GIS\Maravilla\Milpitas Station\Project\Sheets\020-S-DB-E913.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
R. CRUZ
DRAWN BY
C. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



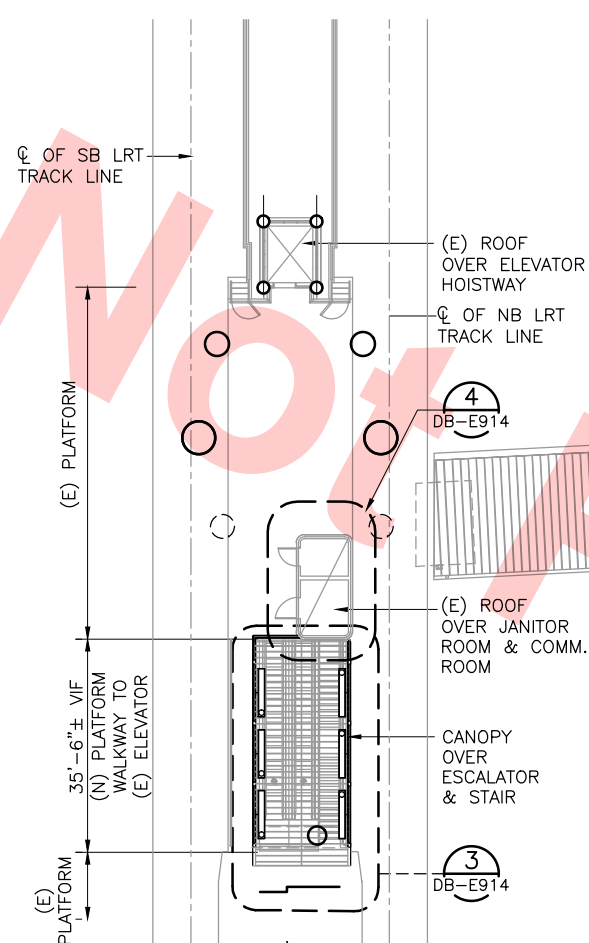
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2339

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED *Ry Adolph*



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MONTAGUE LRT & MILPITAS POC
POC LEVEL PLAN
LIGHTING

CADD FILENAME C700-S-DB-E913.dwg	REV. 0
SIZE SCALE D 1/8"=1'-0"	
CONTRACT NO. C700	
AREA CODE DB	SHEET NO. E913
	PAGE NO. 0949

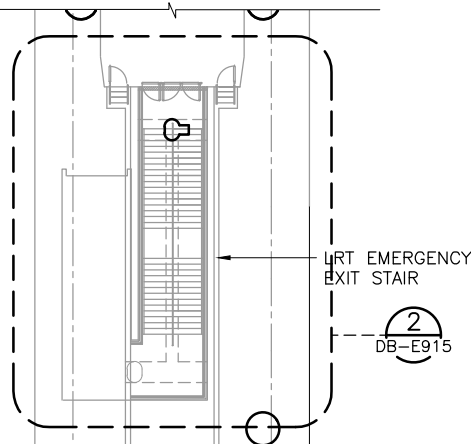


CANOPY OVER STAIR & ESCALATOR AT LRT PLATFORM LEVEL

SCALE: 1/16"=1'-0"

1
DB-E914

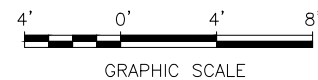
NOTE:
FOR CONTINUATION OF
LRT EMERGENCY EXIT
STAIR TO GRADE,
REFER TO DETAIL
1/DB-E915.



LRT EMERGENCY EXIT STAIR PLAN
AT LRT PLATFORM LEVEL

SCALE: 1/16"=1'-0"

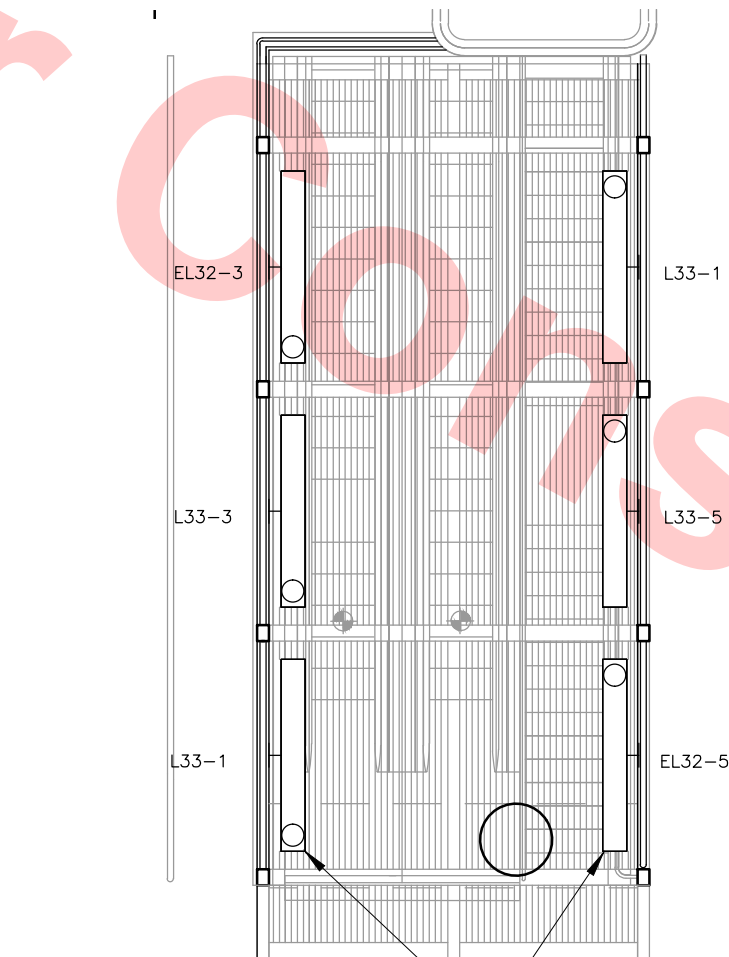
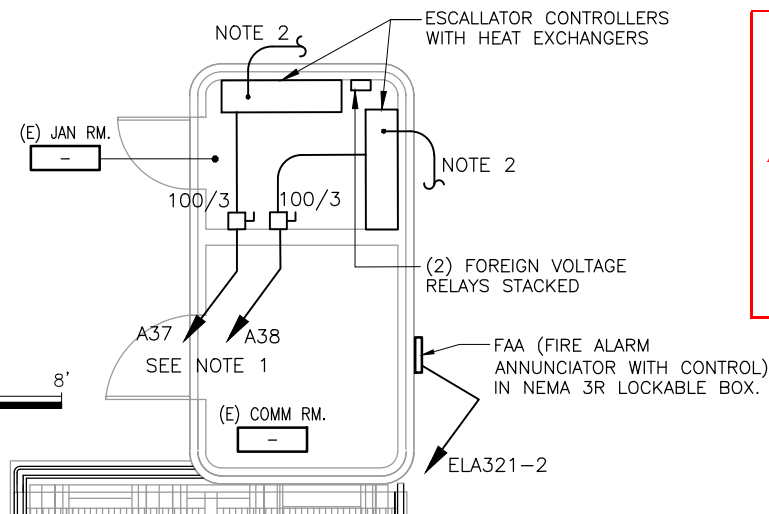
2
DB-E914



(E) JAN. AND COMM. RM. ENLARGED PLAN

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

4
DB-E914



DETAIL CANOPY PLAN - LIGHTING

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

3
DB-E914

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

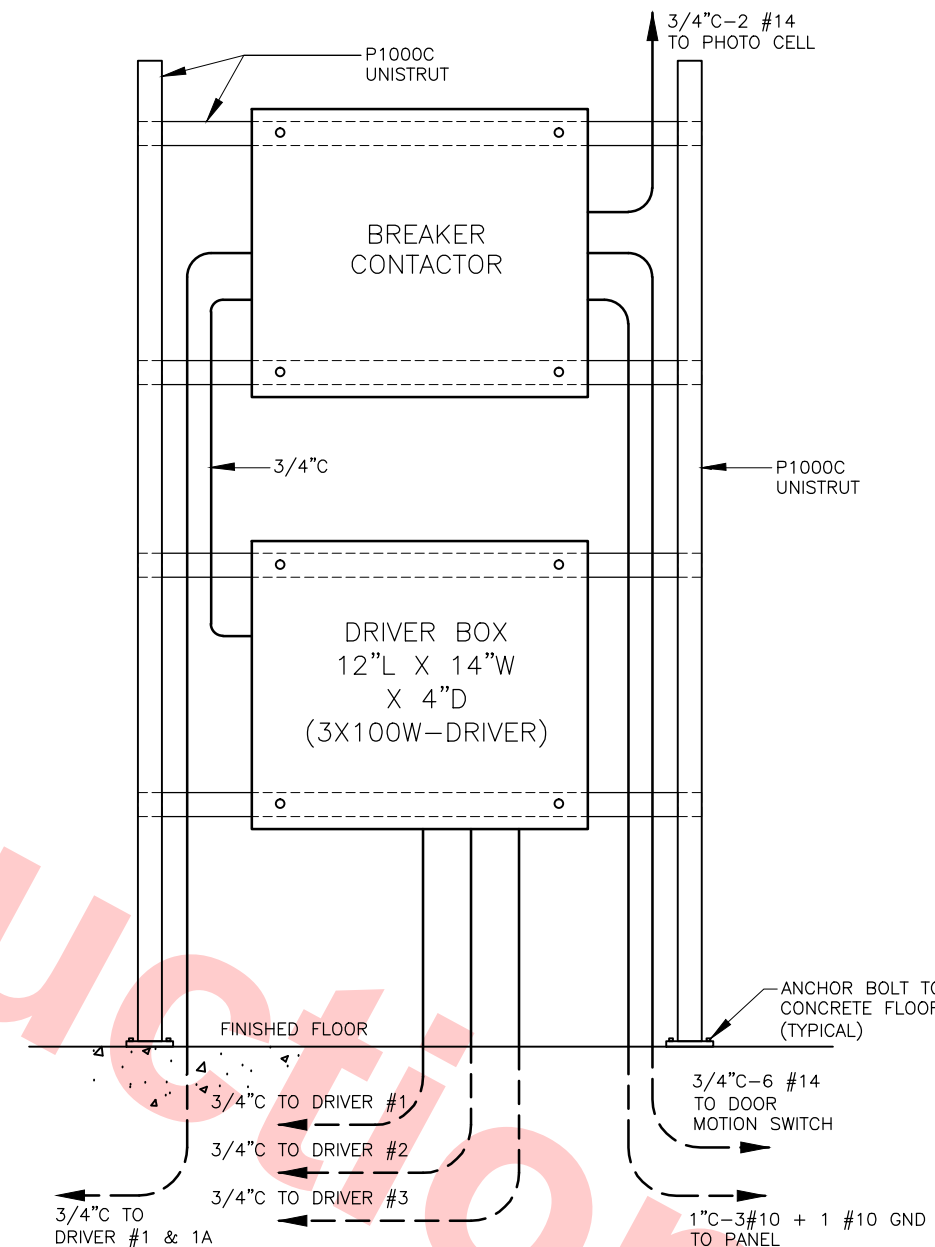
Any action shown above is subject to the terms of the contract
and does not relieve the Contractor of any of its obligations
under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

NOTE

- TO SWITCHBOARD "A3" AT BUS OPERATORS FACILITY (ANCILLARY BUILDING) VIA LRT ELECTRICAL ROOM, SEE DWG. DB-E820, DB-921 AND DB-E922.
- POWER AND CONTROL CONDUITS TO ESCALATOR EQUIPMENT.
 - 3/4"C. FOR CONTROL WIRING BY VENDOR.
 - 2"C (1)-3/C #2, W/ GND FOR POWER.



LIGHTING CONTROLLER - DETAIL ELEVATION

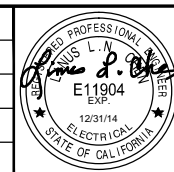
NTS

5
DB-E914

Jun 24, 2013 10:12am G:\Cities Maravilla\Milpitas Station\Project\Sheet Sheets\0700-S-DB-E914.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
R. CRUZ
DRAWN BY
C. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Milpitas, California 95035
Phone: (510) 455-2537 Fax: (510) 535-2339
SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture
Lockwood, Andrews
& Newnam, Inc.
T-Y-LIN INTERNATIONAL
APPROVED

BART
SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MONTAGUE LRT & MILPITAS POC
LRT PLATFORM LEVEL PLAN
LIGHTING

CADD FILENAME
C700-S-DB-E914.dwg
SIZE SCALE
D AS NOTED
CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. DB E914 PAGE NO. 0950

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LOCATION: LRT Montague Ancillary Bldg, Bus Operator Rm A-03				PANEL EL310 EMERGENCY				NEMA 1 Enclosure MOUNTING: SURFACE							
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO	
				A	B	C		A	B	C					
1	20	1	Ancillary Bldg Rm A-01, 03 + EXIT	374				600			FACU WITH ANNUNCIATOR	1	20	2	
3	20	1	Ancillary Bldg Rm A-01, 02, 03, 06 +EXIT		374				100		FACU REMOTE ANNUNCIATOR	1	20	4	
5	20	1	Ancillary Bldg Rm A-02, 10 + EXIT			374					SPARE	1	20	6	
7	20	1	Bus Transit Bay 2 + Bus Shelter Bay 2	527							SPARE	1	20	8	
9	20	1	Bus Transit Bay 3 + Bus Shelter Bay 3		527						SPARE	1	20	10	
11	20	1	Bus Transit Bay 4 + Bus Shelter Bay 4			527					SPACE			12	
SUB TOTAL				901	901	901		600	100	0	SUB TOTAL				
VOLTAGE: 480/227V,3P,4W MAINS: 100A CB MIN IC: 25,000A				1501			1001	901							
TOTAL 3 PHASE CONNECTED x 1.25				3.30			KVA	4.0	AMPS @ 480V						

Giles M

					DESIGNED BY R. CRUZ		Skanska Shimmick Herzog 1436 California Circle Milpitas, California 95035 A Joint Venture		LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MONTAGUE LRT AND MILPITAS POC AND BUS FACILITY PANEL SCHEDULES AND LIGHTING FIXTURE SCHEDULE	CADD FILENAME C700-S-DB-E918.dwg			
					DRAWN BY G. MARAVILLA					SIZE D SCALE NONE	CONTRACT NO. C700	REV. 0	
					CHECKED BY L. CHEN					IN CHARGE R. BARLAAN	AREA CODE DB	SHEET NO. E918	PAGE NO. 0952
0 20130710 READINESS FOR CONSTRUCTION					DATE 20130710					SUBMITTED	APPROVED		
REV	DATE	BY	SUB	APP	DESCRIPTION								

LOCATION: LRT Montague Electrical Room				PANEL LA331 NORMAL				MOUNTING: SURFACE						
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO
				A	B	C		A	B	C				
1	20	1	Receptacle	540							SPARE	1	20	2
3	20	1	Receptacle		540						SPARE	1	20	4
5	20	1	Receptacle			540					SPARE	1	20	6
7	20	1	SPARE								SPACE	1	20	8
9	20	1	SPARE								SPACE	1	20	10
11	20	1	SPARE								SPACE	1	20	12
SUB TOTAL				540	540	540		0	0	0	SUB TOTAL			

VOLTAGE:208Y/120V, 3ø, 4W
MAINS: 100A CB
MIN IC: 10,000A

540

540

540

TOTAL 3 PHASE CONNECTED + LCL

1.6

KVA

4.4

AMPS @ 208V

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)

MAKE CORRECTIONS NOTED (MCN)

AMEND AND RESUBMIT (A/R)





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Contract No.:DB11002F

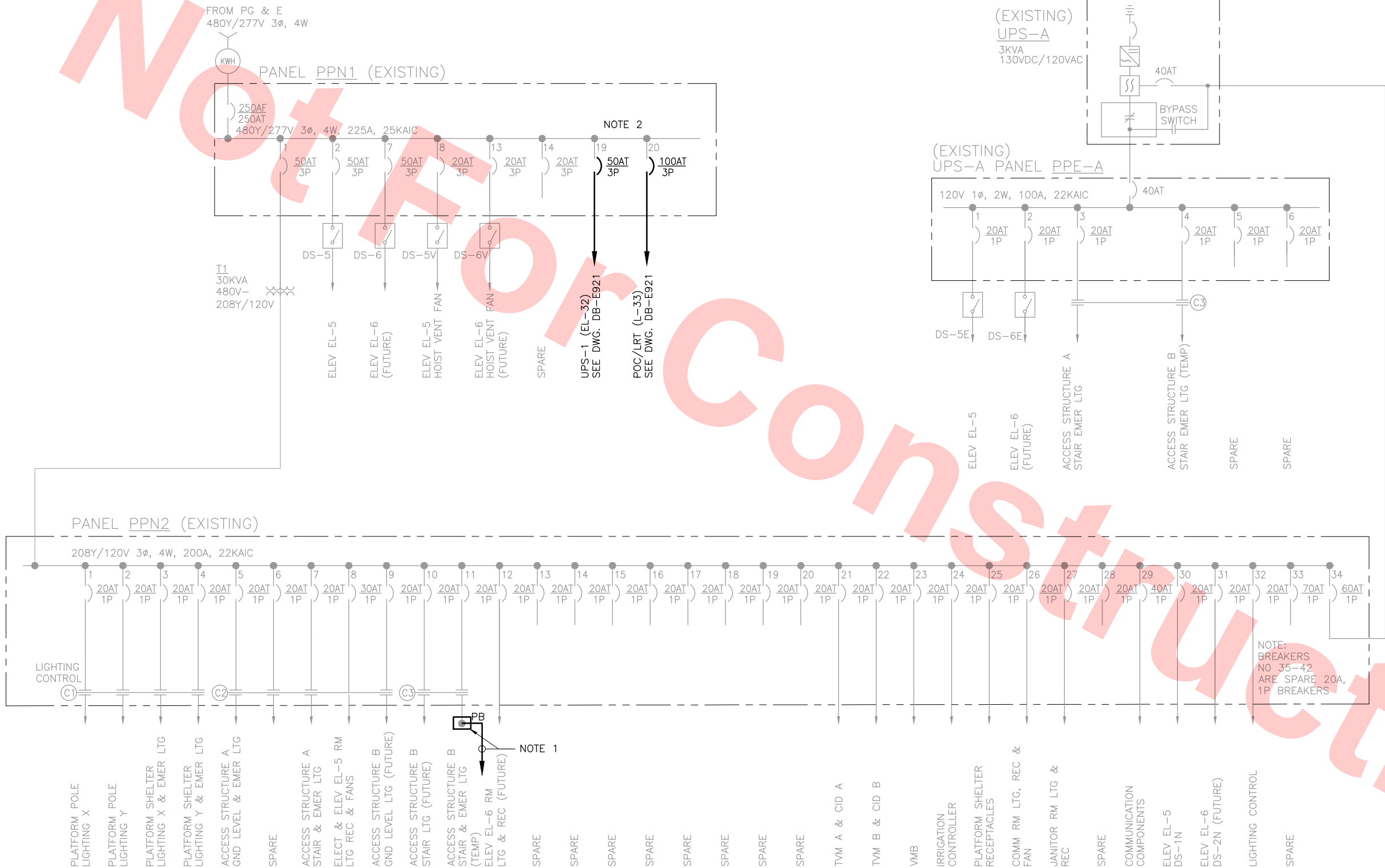
By:Date:

LOCATION: LRT Montague Electrical Room				PANEL PPN1 (Existing) NORMAL				NEMA 1 Enclosure MOUNTING: SURFACE							
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO	
				A	B	C		A	B	C					
1	50	3	T1 30KVA TRANSF.	6228				1600			POC Under Bridge Ltg	1	20	2	
3					6228				1600				1	20	4
5						6228				1600			1	20	6
7	90	3	ELEV. #5	18546							SPARE	1	20	8	
9					18546							1	20	10	
11						18546						1	20	12	
13	90	3	ELEV #6 FUT					688			POC EMERG. LIGHTING PANEL "EL32"	3	50	14	
15									330					16	
17										350				18	
19	20	3	ELEV #5 HOIST VENT FAN	1600				1346			POC LIGHTING PANEL "L33"	3	100	20	
21					1600				1579					22	
23						1600				1289				24	
SUB TOTAL				26374	26374	26374		585	618	618	SUB TOTAL				
VOLTAGE: 480/277V, 3ø, 4W				GRAND TOTAL		30008	29883	89504							
MAINS: 125A CB						103.4	KVA	125	AMPS @ 480V						
MIN IC: 25,000A															
				TOTAL 3 PHASE CONNECTED + LCL		103.4	KVA	125	AMPS @ 480V						

GilesM Jun 25, 2013 - 11:29am C:\projectwise\mbx-gmaravilla\dms34734\C700-S-DB-E919.dwg

					DESIGNED BY R. CRUZ		Skanska Shimmick Herzog		 Lockwood, Andrews & Newnam, Inc. 1740 S. BAY STREET SAN JOSE, CA 95128		LINE, TRACK, STATIONS AND SYSTEMS		CADD FILENAME C700-S-DB-E919.dwg				
					DRAWN BY G. MARAVILLA		 Anil Verma Associates, Inc. 1970 Broadway, Suite 220 Oakland, CA 94612 Phone: (415) 435-2339	1436 California Circle Milpitas, California 95035 A Joint Venture			T-Y-LIN INTERNATIONAL	DESIGN UNIT 023		SIZE D SCALE NONE	REV.		
					CHECKED BY L. CHEN									MONTAGUE LRT AND MILPITAS POC		CONTRACT NO. C700	
					IN CHARGE R. BARLAAN									AND BUS FACILITY		AREA CODE DB	SHEET NO. E919
0 20130710 READINESS FOR CONSTRUCTION					DATE 20130710	SUBMITTED		APPROVED		BART SILICON VALLEY BERRYESSA EXTENSION		PANEL SCHEDULES					
REV	DATE	BY	SUB	APP	DESCRIPTION												

Jun 24, 2013 10:13am G:\Files Maravilla\Milpitas Station\Projectwise Sheets\C700-S-DB-E920.dwg



NOTE

1. TERMINATED FEEDER CIRCUIT PPN2-11 AT NEW PROVIDED PULL BOX NEAR COL. L/3.1. WIRE AND CONDUIT TO BE EXTENDED FOR REUSE. SEE DWG. 1/DB-E915.
2. CIRCUIT 19 TO FEED EMERG. PNL. EL32 VIA UPS-POC, AND CIRCUIT 20 TO FEED NORMAL PNL L33, SEE DWG DB-E921 FOR CONTINUATION. REMOVE EXISTING BKR OF CIRCUIT 19 AND REPLACE WITH NEW BKR OF 50AT/100AF/3P RATING. REMOVE EXISTING BKR OF CIRCUIT 20 AND REPLACE WITH NEW BKR OF 100AT/100AF/3P RATING.

Santa Clara Valley Transportation Authority

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Contract No.: DB11002F

By: Date:

DESIGNED BY R. CRUZ	
DRAWN BY C. MARAVILLA	
CHECKED BY L. CHEN	
IN CHARGE R. BARLAAN	
DATE 20130710	
0 20130710	READINESS FOR CONSTRUCTION
REV	DATE
BY	SUB
APP	DESCRIPTION

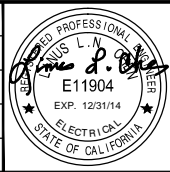
DESIGNED BY
R. CRUZ

DRAWN BY
C. MARAVILLA

CHECKED BY
L. CHEN

IN CHARGE
R. BARLAAN

DATE
20130710



Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.
1970 Broadway, Suite 505
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY

T-Y-LIN INTERNATIONAL

APPROVED

APPROVED



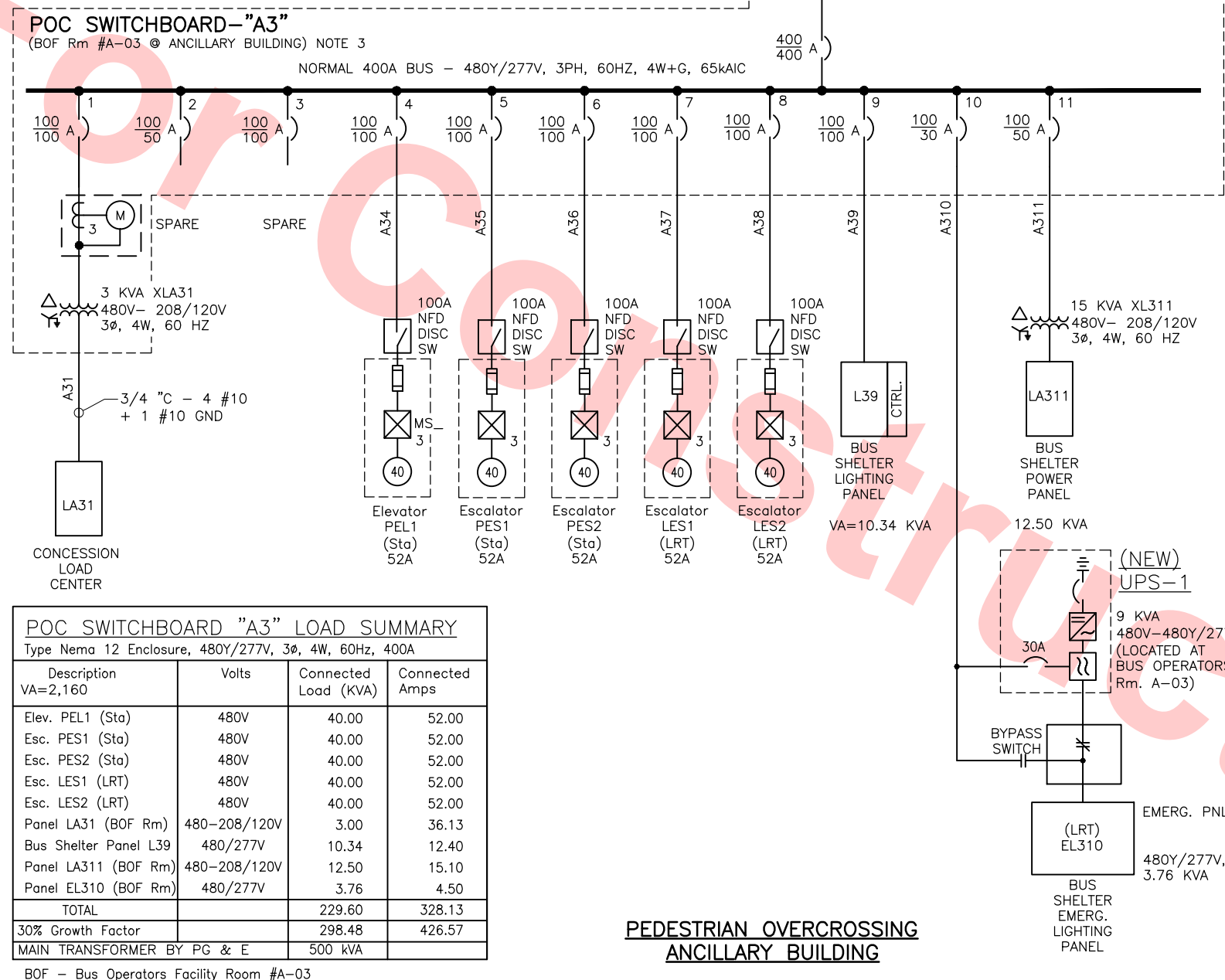
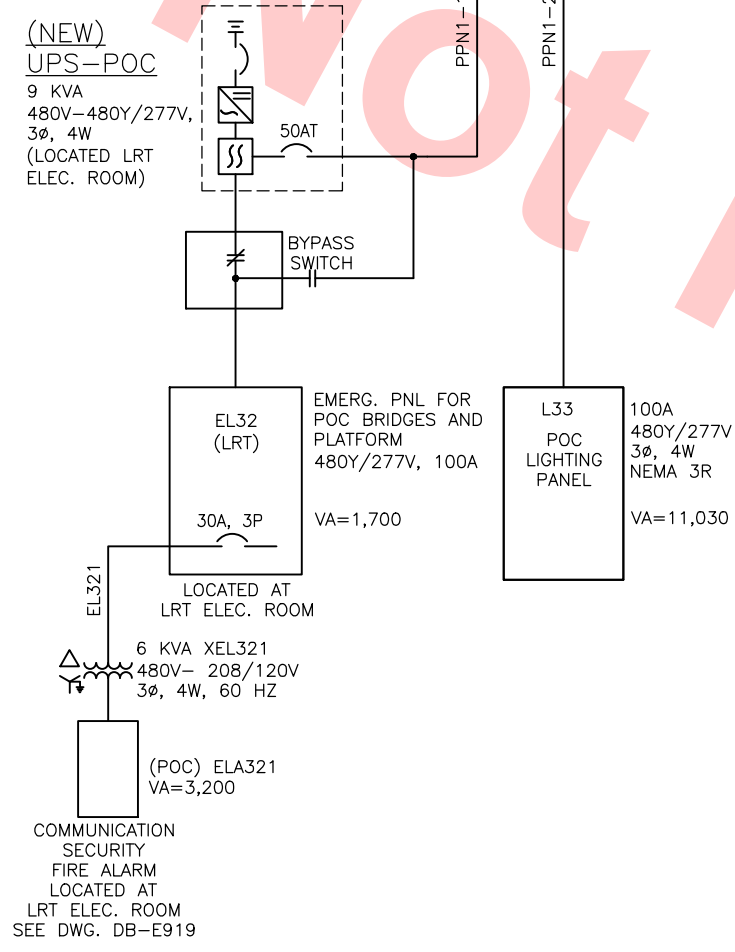
LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MONTAGUE LRT AND MILPITAS POC

SINGLE LINE DIAGRAM

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SIZE D	SCALE NONE
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AREA CODE DB	SHEET NO. E920
	PAGE NO. 0954

Jun 24, 2013 10:13am G:\Users\Maravilla\My Documents\Projects\Station\Project\Sheets\700-S-DB-E921.dwg

LRT ELECTRICAL ROOM



POC SWITCHBOARD "A3" LOAD SUMMARY			
Type Nema 12 Enclosure, 480Y/277V, 3Ø, 4W, 60Hz, 400A			
Description VA=2,160	Volts	Connected Load (KVA)	Connected Amps
Elev. PEL1 (Sta)	480V	40.00	52.00
Esc. PES1 (Sta)	480V	40.00	52.00
Esc. PES2 (Sta)	480V	40.00	52.00
Esc. LES1 (LRT)	480V	40.00	52.00
Esc. LES2 (LRT)	480V	40.00	52.00
Panel LA31 (BOF Rm)	480-208/120V	3.00	36.13
Bus Shelter Panel L39	480/277V	10.34	12.40
Panel LA311 (BOF Rm)	480-208/120V	12.50	15.10
Panel EL310 (BOF Rm)	480/277V	3.76	4.50
TOTAL		229.60	328.13
30% Growth Factor		298.48	426.57
MAIN TRANSFORMER BY PG & E		500 kVA	

BOF - Bus Operators Facility Room #A-03

PEDESTRIAN OVERCROSSING
ANCILLARY BUILDING

NOTES

- FOR ELECTRICAL ABBREVIATION REFER TO SHEET DB-E001X.
- FOR ELECTRICAL DIAGRAM AND LAYOUT SYMBOLS REFER TO SHEET DB-E002X AND DB-E003X.
- NEW SWITCHBOARD "A3" SHALL BE NEMA 12.
- AUTO-TRANSFER SWITCH "ATS1",100A, 65 KAIC, 3Ø, 3W, CUTLER HAMMER TYPE AT45 OR EQUAL.
- PROVIDE BLANK SOCKET FOR 1 METER AS PER SWITCHBOARD REQUIREMENT. CONTRACTOR TO PROVIDE AS PER BART STANDARD.
- CABLE PROVIDED BY PG & E, CONDUITS BY AVA (ANIL VERMA ASSOCIATES).

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

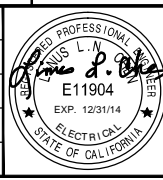
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Contract No.: DB11002F

By: Date:

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION REPLACED C700 DB-E102 REV. P

DESIGNED BY R. CRUZ	DRAWN BY G. MARAVILLA	CHECKED BY L. CHEN	IN CHARGE R. BARLAAN	DATE 20130710
------------------------	--------------------------	-----------------------	-------------------------	------------------



Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 455-2537 Fax: (510) 535-2339

Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY

T-Y-LIN INTERNATIONAL

BART
SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MONTAGUE LRT & MILPITAS POC
AND BUS FACILITY
480V POWER DISTRIBUTION
SINGLE LINE DIAGRAM

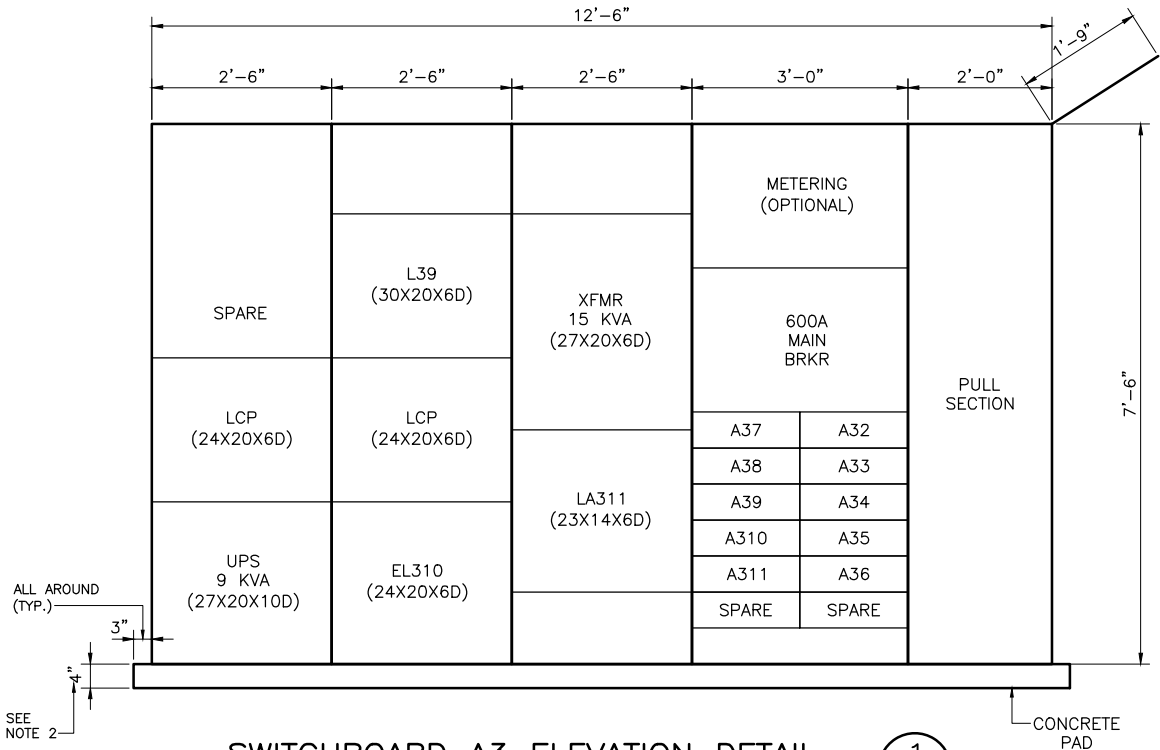
CADD FILENAME C700-S-DB-E921.dwg		
SIZE D	SCALE NONE	
CONTRACT NO. C700	REV. 0	
AREA CODE DB	SHEET NO. E921	PAGE NO. 0955

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POC-LRT SWITCHBOARD "A3"															
LOCATED @ ANCILLARY BUILDING – BUS OPERATOR ROOM No. A-03															
CIRCUIT No.	APPLICATION	RUN			CONDUIT SIZE&TYPE	CONDUCTORS	CABLE LENGTH (FT)	INSTALLATION DRAWINGS	VOLT-AMPS	AMPS	VOLT-DROP	CONDUCTOR AREA (CM)	CONDUCTOR TYPE (CM)	SIZE	REMARKS
		FROM	VIA	TO											
PGE-P1	MAIN FEEDER	PG & E – TRANSFORMER T2	TBD	POC SWITCHBOARD A3	5"C	4-1/C #750 Kcmil, & 1 #2/0G	240		227000	243.0	3.3	500000	THWN	500	SEE NOTE 6, DWG. DB-E921
A31	CONCESSIONAIRE	SWITCHBOARD A3	CONDUIT	CONCESSION LOAD CENTER	3/4"C	4 #10, + 1 #10G	40		3000	8.0	–	16510	THWN	10	
A32	SPARE	SWITCHBOARD A3	TBD	POC UPS & PANEL EL32	2"C	1-3/C #8, W/ GND	20		9000	10.8	4.8	12274	THWN	#8	
A33	SPARE	SWITCHBOARD A3	TBD	PANEL L33	2"C	1-3/C #6, W/ GND	20		12630	15.2	4.8	16972	THWN	#6	
A34	ELEVATOR (MILPITAS)	SWITCHBOARD A3	TBD	MILPITAS ELEVATOR PEL1	2"C	1-3/C #4, W/ GND	160		40000	48.2	4.8	35833	THWN	#4	
A35	ESCALATOR (MILPITAS)	SWITCHBOARD A3	TBD	MILPITAS ESCALATOR PES1	2"C	1-3/C #4, W/ GND	160		40000	48.2	4.8	35833	THWN	#4	
A36	ESCALATOR (MILPITAS)	SWITCHBOARD A3	TBD	MILPITAS ESCALATOR PES2	2"C	1-3/C #4, W/ GND	160		40000	48.2	4.8	35833	THWN	#4	
A37	ESCALATOR (LRT)	SWITCHBOARD A3	TBD	LRT ESCALATOR LES1	2"C	1-3/C #2, W/ GND	240		40000	48.2	4.8	53750	THWN	#2	
A38	ESCALATOR (LRT)	SWITCHBOARD A3	TBD	LRT ESCALATOR LES2	2"C	1-3/C #2, W/ GND	240		40000	48.2	4.8	53750	THWN	#2	
A39	BUS SHELTER	SWITCHBOARD A3	CONDUIT	PANEL "L39"	1"C	4 #10, + 1 #10G	30		10240	12.3	4.8	1720	THWN	#10	
A310	UPS-1/EL310	SWITCHBOARD A3	CONDUIT	PANEL "EL310"	3/4"C	4 #10, + 1 #10G	30		9000	10.8	4.8	1534	THWN	#10	
A311	BUS SHELTER	SWITCHBOARD A3	CONDUIT	PANEL "EL311"	3/4"C	4 #10, + 1 #10G	30		13950	16.8	4.8	2343	THWN	#10	
A312	SPARE	SWITCHBOARD A3	CONDUIT	FUTURE	2"C	NO CONDUCTOR	240		–	–	–	–	–	–	
EL321	COMM, SECURITY & FA	PANEL EL32	CONDUIT	XEL321	3/4"C	3 #10, + 1 #10G	15		3200	
PPN1-19	UPS-POC	LRT/POC PANEL PPN1	CONDUIT	UPS-POC (FOR EL32)	1"C	3 #6, + 1 #10G	15		1700	2.05	0	16510	THWN	#10	
PPN1-20	POC LIGHTING	LRT/POC PANEL PPN1	CONDUIT	PANEL "L33"	1-1/2"C	3 #1, + 1 #8G	15		7560	8.86	0	26240	THWN	#8	

PARTIAL CABLE & RACEWAY SCHEDULE - 1										
CONDUIT No.	SIZE	TYPE	FROM	TO	CABLE		VOLT	CIRCUIT NO(S)	DRAWING NO(S)	REMARKS
					QUANTITY	SIZE				
NP53	NP53	RGS	TVM A PB	CAPPED STUB-UP					EP204	FOR FUTURE CID
NP54	NP54	RGS	TVM A PB	CAPPED STUB-UP					EP205	FOR FUTURE CID
NP55	NP55	RGS	PPN2-34		2-1/C + GND	#10	120V	PPN2-34	E921	CONTRACT C545
NP56	NP56	RGS	PPN2-36		2-1/C + GND	#10	120V	PPN2-36	E921	CONTRACT C545

REFERENCE DRAWING: TASMAN EAST LIGHT RAIL PROJECT – ELECTRICAL MONTAGUE STATION – CABLE & RACEWAY SCHEDULE – 1, AS BUILT DRAWING # EP214



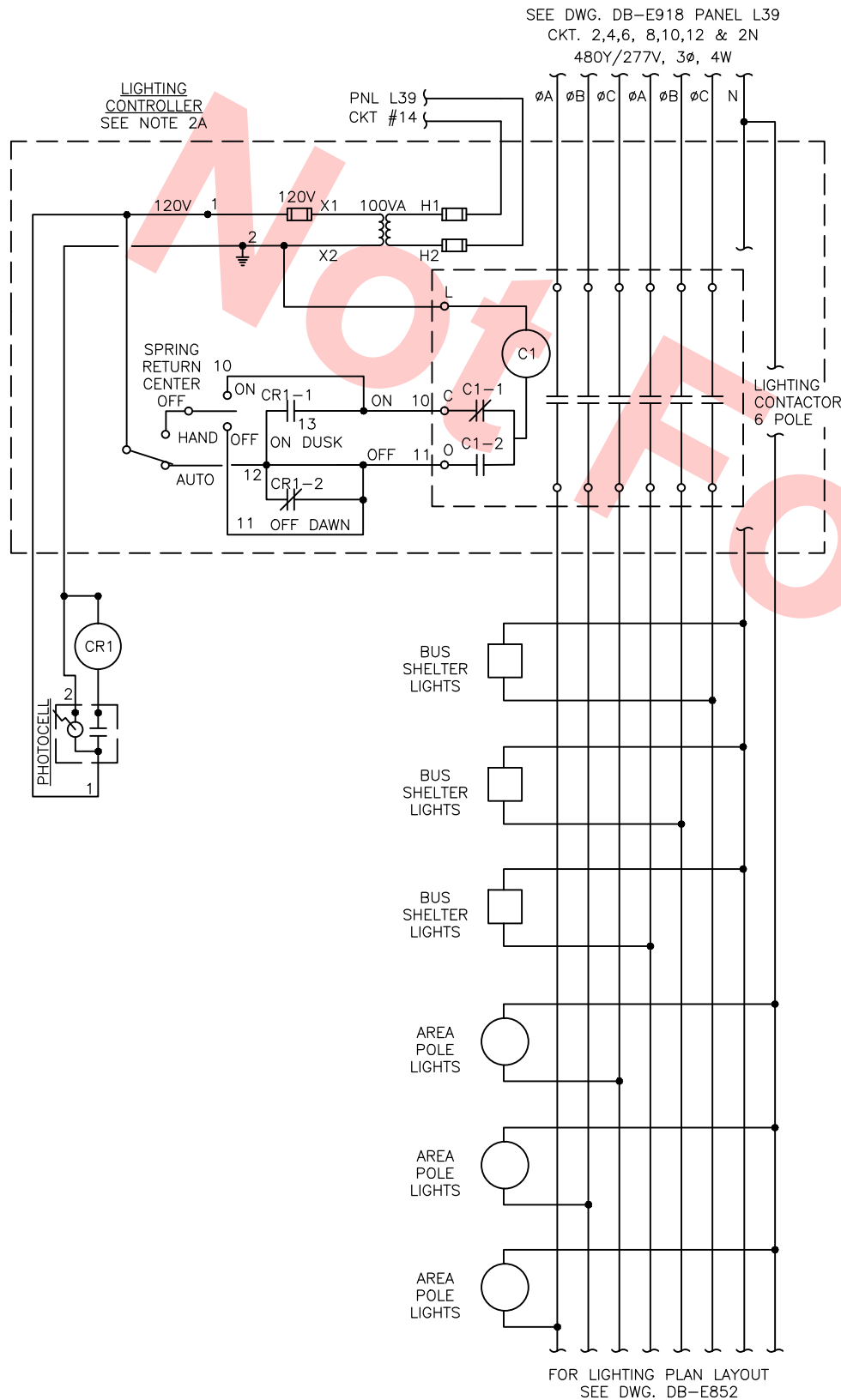
SWITCHBOARD A3 ELEVATION DETAIL
SCALE: NTS

LOCATION: LRT Montague Electrical Room					PANEL PPN2 (Existing)					NEMA 1 Enclosure					
					NORMAL					MOUNTING: SURFACE					
CKT NO	TRIP AMP	POLES	DESCRIPTION	COL #1 VOL-AMPS				COL #2 VOL-AMPS			DESCRIPTION	POLES	TRIP AMP	CKT NO	
				A	B	C		A	B	C					
1	15	1	PLATFORM LIGHTING (POLES 1,2,3,4,5)	1044				1044			PLATFORM LIGHTING (POLES 1,2,3,4,5)	1	15	2	
3	15	1	SHELTER AND ACCESS A LIGHTING		1780				1780		SHELTER & ACCESS A LTG	1	15	4	
5	40	1	ACCESS A GRND LEVEL & ELEVATOR LTG			2782				–	SPARE	1	20	6	
7	20	1	SPARE	–				1667			ACCESS A ELEV EQPT & ELEC RMS	1	20	8	
9	35	1	ACCESS B GRND LVL & ELEV AREA LTG(FUT)		2782				–		SPARE	1	20	10	
11	20	1	ACCESS B STAIR LTG (TEMP)			1136				981	ACCESS B ELEV EQPT RM (FUT)	1	20	12	
13	20	1	SPARE	–				1982			PANEL PPE VIA UPS	1	40	14	
15	20	1	ELEV PIT LTG & RECEPT		311				–		SPARE	1	20	16	
17	20	1	SPARE			–				–	SPARE	1	20	18	
19	15	1	SPARE	–				–			SPARE	1	20	20	
21	15	1	TVM A & CID A		480				480		TVM B	1	15	22	
23	15	1	POLE 4 VMD			480				50	IRRIGATION CONTROLLER	1	20	24	
25	15	1	RECEPTACLES @ KIOSKS	360				653			COMMUNICATION ROOM	1	15	26	
27	15	1	JANITOR ROOM		924				480		CID'S AND AVM'S	1	15	28	
29	40	1	COMMUNICATION COMPONENTS			2700				600	ACCESS A ELEVATOR EL-5	1	20	30	
31	15	1	ACCESS B ELEV EL-6 (FUT)	600				133			LIGHTING CONTROL	1	20	32	
33	20	1	SPARE						360		POC LEVEL OUTLET (NOTE 1)	1	20	34	
35	20	1	SPARE							360	POC BRIDGE OUTLET (NOTE 1)	1	20	36	
37	20	1	SPARE					–			SPARE	1	20	38	
39	20	1	SPARE						–		SPARE	1	20	40	
41	20	1	SPARE							–	SPARE	1	20	42	
SUB TOTAL				2004	6277	7098		5479	3100	1991	SUB TOTAL				
VOLTAGE: 208/120V, 3Ø, 4W				GRAND TOTAL		7483	9377	9089							
MAINS: 225A LUGS ONLY				TOTAL 3 PHASE CONNECTED + LCL		25.9	KVA	72.0	AMPS @ 480V						
MIN IC: 22,000A															

REFERENCE DRAWING: TASMAN EAST LIGHT RAIL PROJECT – ELECTRICAL MONTAGUE STATION – PANEL SCHEDULES, AS BUILT DRAWING # EP216
NOTE 1: CONTRACTOR TO ROUTE CONDUIT/CABLE TO OUTLET AT POC LEVEL AND POC BRIDGE.

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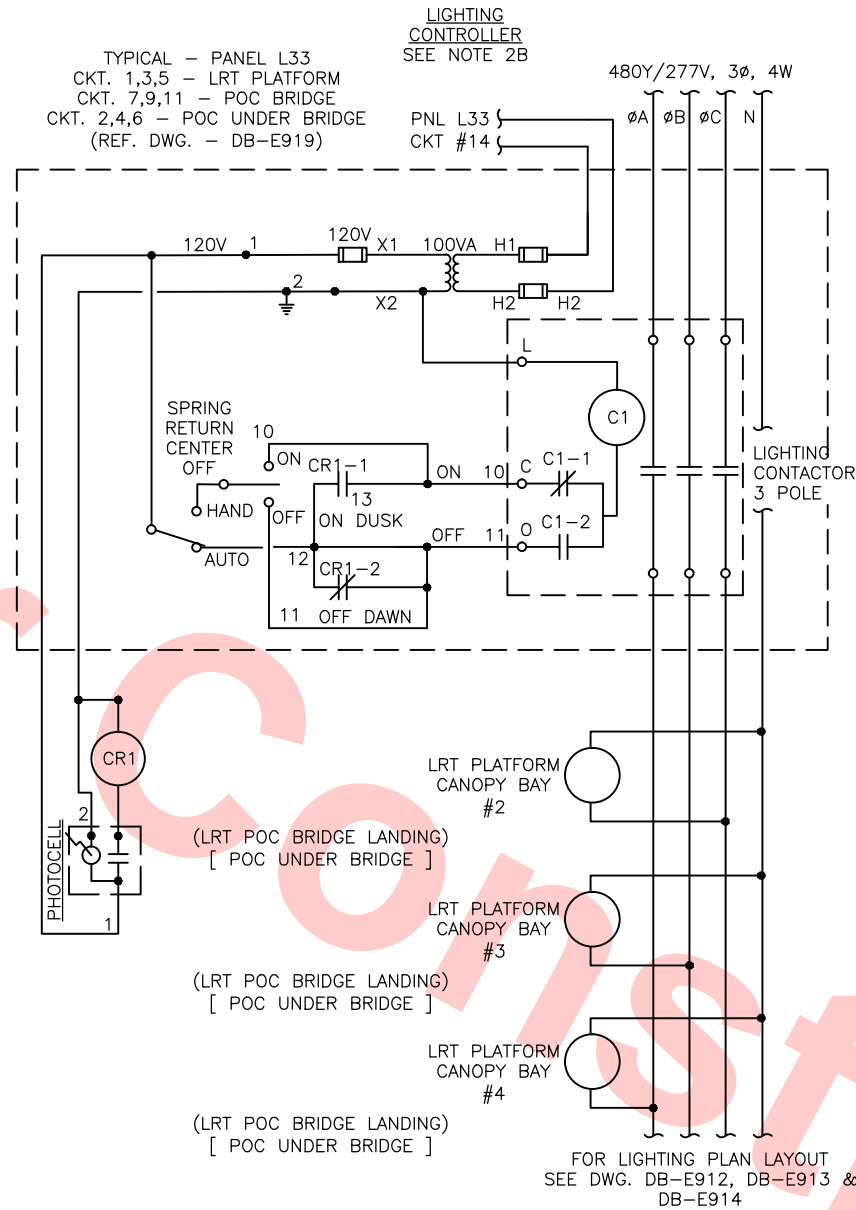
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TYPICAL FOR 6 POLES LIGHTING CIRCUITS

BUS CENTER LIGHTING CONTROL DIAGRAM

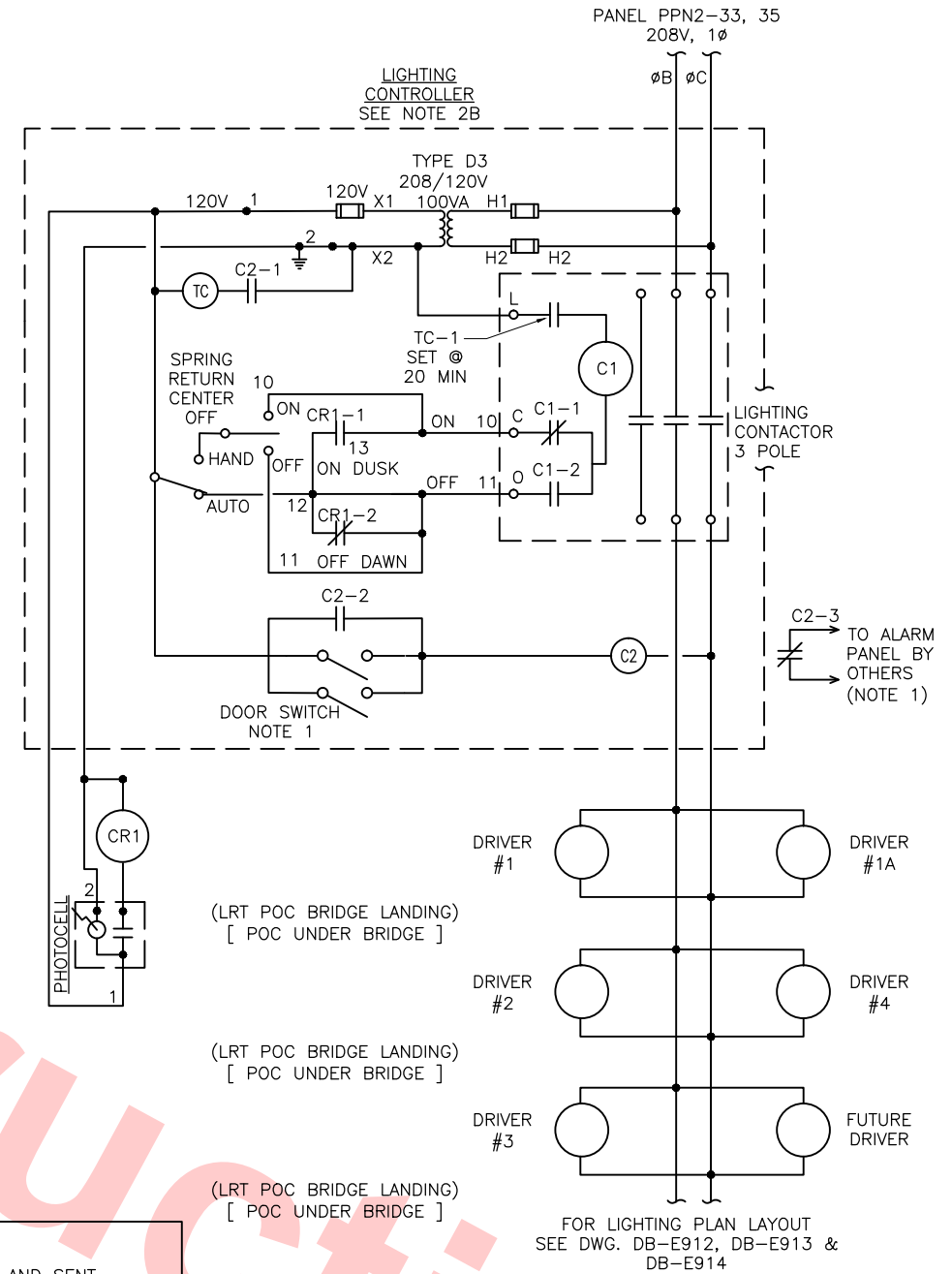
SCALE: NTS



TYPICAL FOR 3 POLES LIGHTING CIRCUITS

LRT LANDING & POC LIGHTING CONTROL DIAGRAM

SCALE: NTS



HANDRAIL LIGHTS CONTROL DIAGRAM

SCALE: NTS

Santa Clara Valley Transportation Authority

— NO EXCEPTIONS TAKEN (NET)
— MAKE CORRECTIONS NOTED (MCN)
— AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract
and does not relieve the Contractor of any of its obligations
under the contract, including design and detailing.

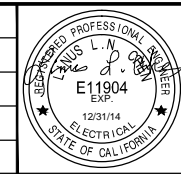
Contract No.: DB11002F

By: _____ Date: _____

- NOTES:
1. CLOSE AS EXIT DOOR OPEN AND SENT SIGNAL TO ALARM PANEL.
 - 2A. TYPE LG-60, 30A, 6 POLE SCHNEIDER ELEC OR EQUAL.
 - 2B. TYPE LG-30, 30A, 6 POLE SCHNEIDER ELEC OR EQUAL.

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
R. CRUZ
DRAWN BY
C. MARAVILLA
CHECKED BY
L. CHEN
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog

Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 515-9057

1436 California Circle
Milpitas, California 95035
A Joint Venture

Lockwood, Andrews
& Newnam, Inc.
A LEU A BALLY COMPANY

T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MONTAGUE LRT AND MILPITAS POC
AND BUS FACILITY
LIGHTING CONTROL DIAGRAM

CADD FILENAME C700-S-DB-E923.dwg	SIZE D	SCALE NONE
CONTRACT NO. C700	SHEET NO. E923	REV. 0
AREA CODE DB	PAGE NO. 0957	