

SYMBOLS

- MON # HORIZONTAL CONTROL POINT (ATTRIBUTED)
- MON # HORIZONTAL AND VERTICAL CONTROL POINT (ATTRIBUTED)
- MON # VERTICAL CONTROL POINT (ATTRIBUTED)
- POINT OF VERTICAL INTERSECTION (PVI) VERTICAL CURVE (ATTRIBUTED)
- BENCHMARK
- EQN STATIONING EQUATION MARKER
- CURVE # CURVE MARKER (ATTRIBUTED)
- NORTH ARROW
- PLAN NORTH ARROW
- TREE(S), BRUSH, SHRUBS
- TREE(S), BRUSH, SHRUBS TO BE REMOVED

PATTERNS

- PEDESTRIAN CROSSING PANELS TO BE REMOVED
- GRADE CROSSING PANELS TO BE REMOVED
- ASPHALTIC CONCRETE TO BE REMOVED
- PORTLAND CEMENT CONCRETE TO BE REMOVED
- NEW ASPHALTIC CONCRETE
- COMPACTED SUBGRADE, EARTH
- BALLAST
- PORTLAND CEMENT CONCRETE
- AGGREGATE BASE
- GRADED/LANDSCAPED AREA
- STONE/BRICK PAVING
- TACTILE WARNING TILES

- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- CCTV, SECURITY MANHOLE
- TELEVISION MANHOLE
- ELECTRIC MANHOLE
- WATER VALVE BOX
- RAILROAD SWITCHBOX
- TRAFFIC CONTROL BOX
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL W/ ARM ONLY
- TRAFFIC SIGNAL W/ ARM AND POLE
- SIGN
- TELEPHONE POLE
- EXISTING POLE
- LIGHT POLE
- EXISTING POLE MOUNTED LUMINAIRE (EXISTING PLATFORM)
- ELECTROLIER WITH POLE
- ELECTROLIER WITHOUT POLE
- ELECTROLIER, DOUBLE
- CROSSING GATE WITH LIGHTS
- SIGNAL HOUSE
- RAILROAD SIGNAL
- SIGNAL BASE
- TEMPORARY DRAINAGE INLET
- TIME CLOCK
- PHOTOELECTRIC CELL
- STAIRWAY OR RAMP FLOODLIGHT
- SERVICE METERING SWITCHBOARD
- UTILITY METER
- TRANSFORMER

- GROUNDING ROD
- GROUND
- CCTV CAMERA
- CARD INTERFACE DEVICE
- DISTRIBUTION CABINET (ATTRIBUTED)
- STAND ALONE VALIDATOR
- TICKET VENDING MACHINE
- VISUAL MESSAGE SIGN
- PUBLIC TELEPHONE
- COMMUNICATIONS EQUIPMENT ROOM
- COMMUNICATIONS INTERFACE CABINET
- FIBER DISTRIBUTION PANEL
- NOISE SENSING MICROPHONE (SURFACE MOUNTED)
- PULL BOX
- EQUIPMENT ROOM
- SUBSYSTEM DEVICE (TVM, VMS OR CCTV)
- DISTRIBUTION CABINET (INTERMEDIATE CROSS-CONNECT)
- MICROPHONE
- SPEAKER
- DUAL SPEAKER
- HANDHOLE
- SINGLE MODE OR MULTIMODE FIBER OPTIC CABLE
- 8 OHM EXTERIOR HORN SPEAKER
- CONTROL POINT
- SM FIBER TO COPPER MEDIA CONVERTER/SWITCH DUAL TX/RX

SPECIAL TRACKWORK SYMBOLS

- INSULATED JOINT
- WELDED JOINT

LINE TYPES

- TD TRENCH DRAIN
- UD UNDER DRAIN
- CATV CABLE TV LINE
- Q COMMUNICATIONS LINE
- COPPER CABLE
- E ELECTRICAL LINE
- FOC FIBER OPTIC CABLE
- ATT FIBER OPTIC CABLE, ATT
- SPR FIBER OPTIC CABLE, SPRINT
- FUEL FUEL LINE
- GAS GAS LINE
- SS SANITARY SEWER LINE
- SIG SIGNALS LINE
- SD STORM DRAIN
- STORM DRAIN, OVER 18" DIA
- TEL TELEPHONE LINE
- OH OVERHEAD UTILITY LINE
- W WATER LINE
- HW HOT WATER LINE
- CENTERLINE
- MATCH LINE
- RIGHT-OF-WAY, EASEMENT, PROPERTY LINE
- FENCE
- PCJPB INTERTRACK FENCE WELDED WIRE MESH (WWM)

TRACK

- TRACK TO BE REMOVED
- TRACK TO BE REALIGNED
- TRACK TO BE SHIFTED
- EXISTING TRACK ALIGNMENT
- FUTURE TRACK ALIGNMENT
- NEW TRACK ALIGNMENT

TRACK RECONSTRUCTION

- RECON=R RAIL ONLY
- RECON=TT TIES ONLY (TIMBER)
- RECON=TC TIES ONLY (CONCRETE)
- ST SPOT TIE ONLY
- RECON=F FASTENERS ONLY
- RECON=RP RECONSTRUCT RAIL AND INSTALL NEW PLATES
- RECON=B BALLAST ONLY
- RECON=R/TT/B RAIL/TIMBER TIE/BALLAST
- RECON=R/TC/B RAIL/CONCRETE TIE/BALLAST
- RECON=R/TC/B/HMAC RAIL/CONCRETE TIE/BALLAST/HMAC

PENINSULA CORRIDOR JOINT POWERS BOARD

STANDARD DRAWINGS

REV	DATE	BY	CHK	APP	DESCRIPTION

APPROVED BY:

Bernard Anagnostis ENGINEERING MANAGER

Steph Chen DEPUTY DIRECTOR OF ENGINEERING

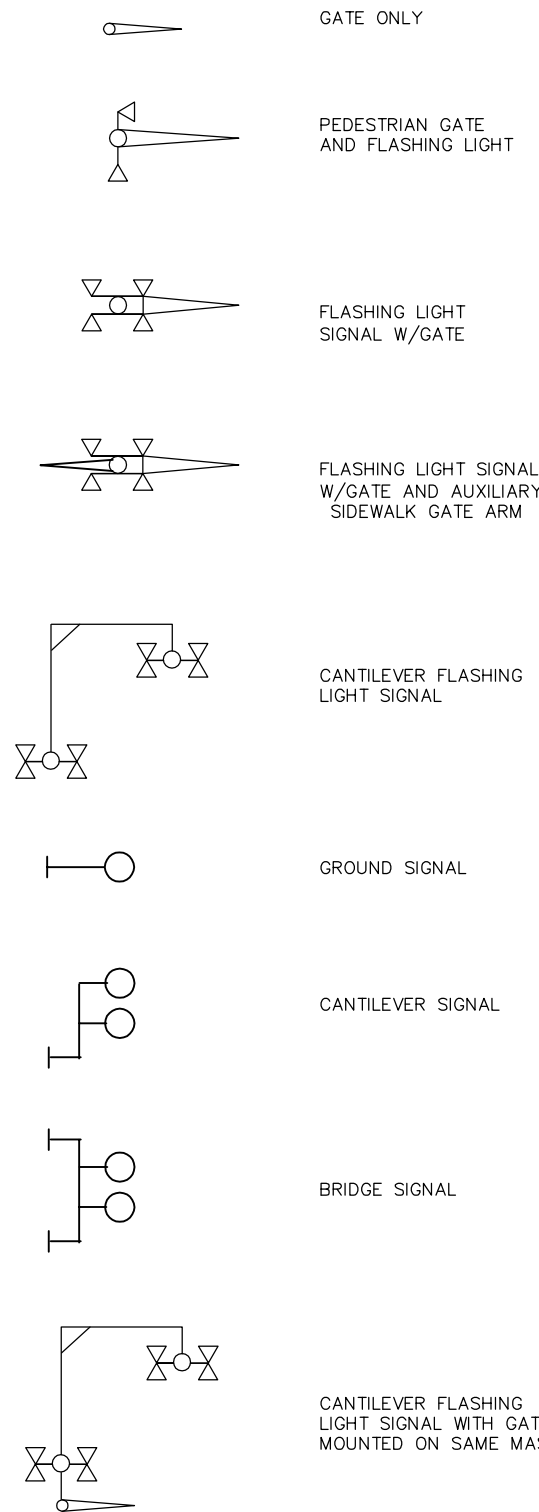


GENERAL SYMBOLS

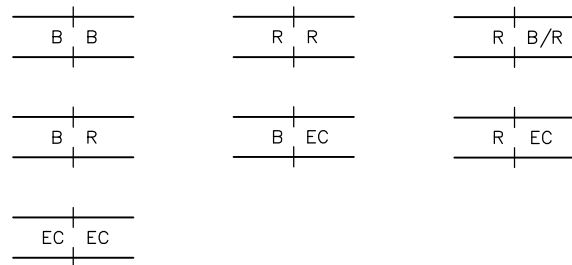
GENERAL, CIVIL AND TRACK

CADD FILE NO.: SD-1201	
REV 0	DATE 050111
GENERAL	
STANDARD NO.: SD-1201	

SIGNALS AND GATES

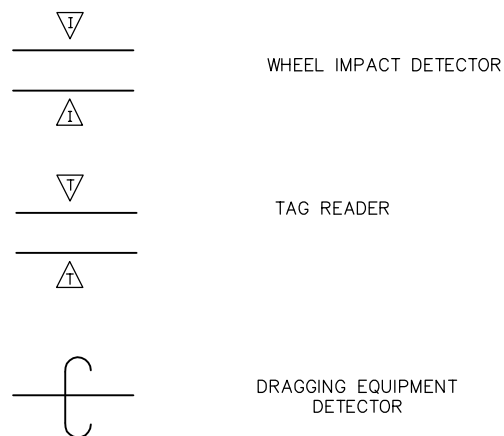


TRACK CIRCUITS

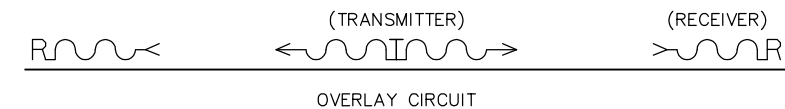


B/R-TRACK BATTERY WITH FLOATER RELAY LOCATION
 EC-ELECTRONICALLY CODED
 R-TRACK RELAY LOCATION
 B-TRACK BATTERY LOCATION

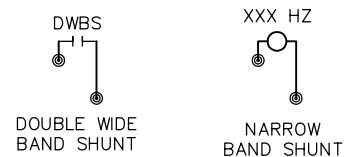
DETECTORS



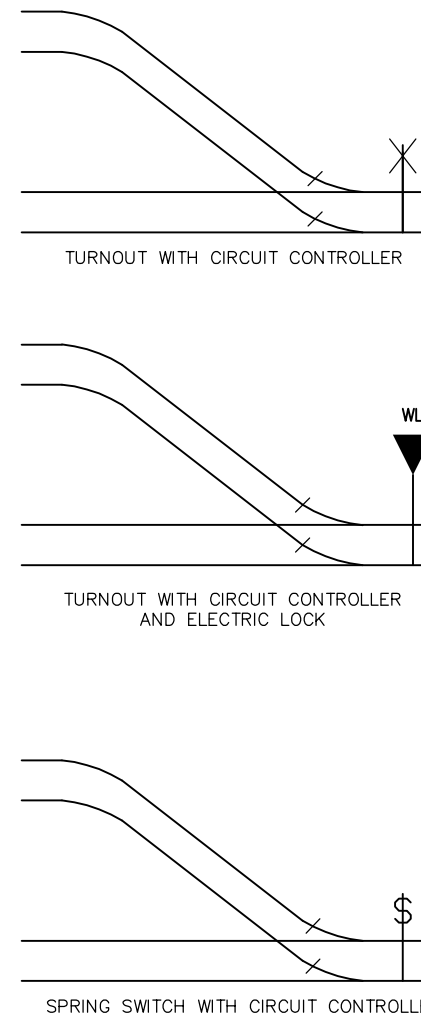
TRACK INSTRUMENT



- HXP CONSTANT WARNING DEVICE (BI-DIRECTIONAL)
- HXP CONSTANT WARNING DEVICE (UNI-DIRECTIONAL)
- SAFETRAN CONSTANT WIRING DEVICE (BI-DIRECTIONAL)
- SAFETRAN GPC3000



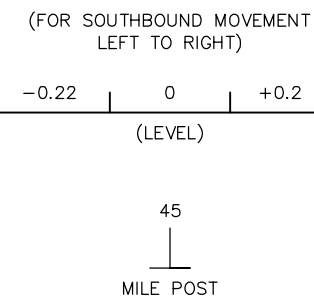
HAND-OPERATED TURNOUTS



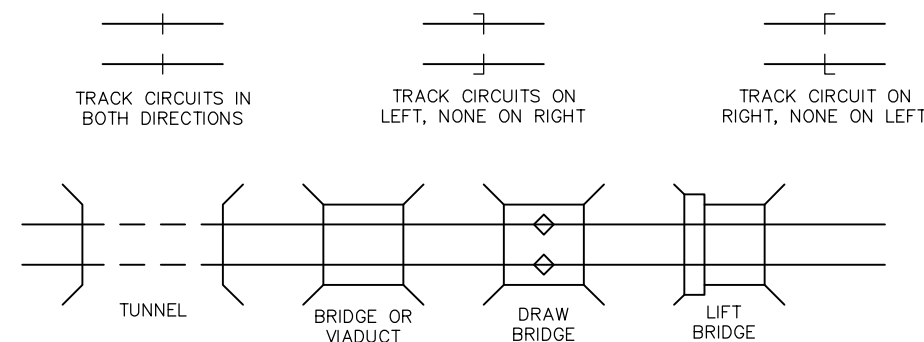
RAIL BONDING



PROFILE (GRADE)



INSULATED RAIL JOINTS



PENINSULA CORRIDOR JOINT POWERS BOARD

STANDARD DRAWINGS

REV	DATE	BY	CHK	APP	DESCRIPTION	REV	DATE	BY	CHK	APP	DESCRIPTION

APPROVED BY:

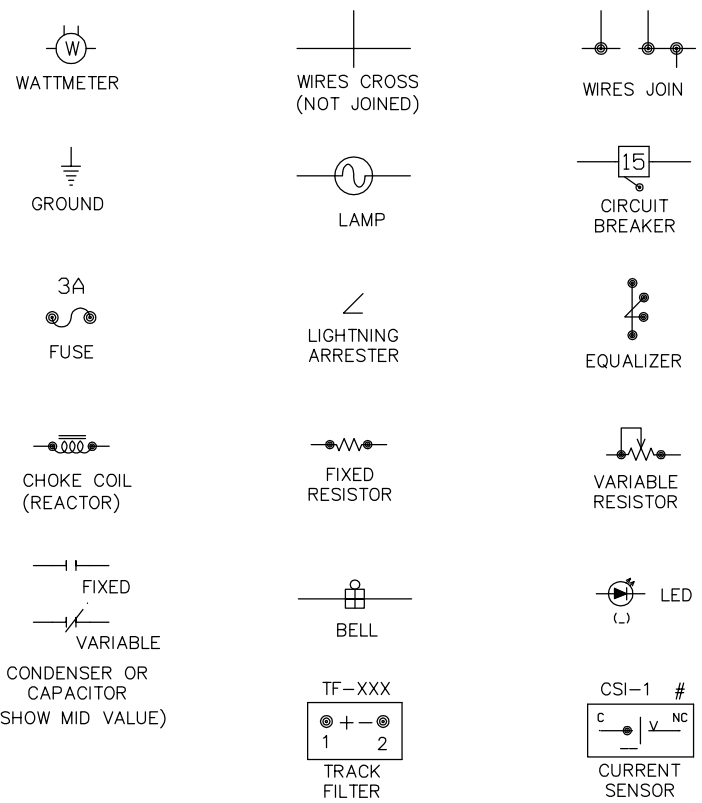
 ENGINEERING MANAGER

 DEPUTY DIRECTOR OF ENGINEERING

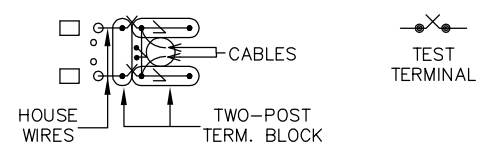


GENERAL SYMBOLS
 SIGNAL AND COMMUNICATIONS

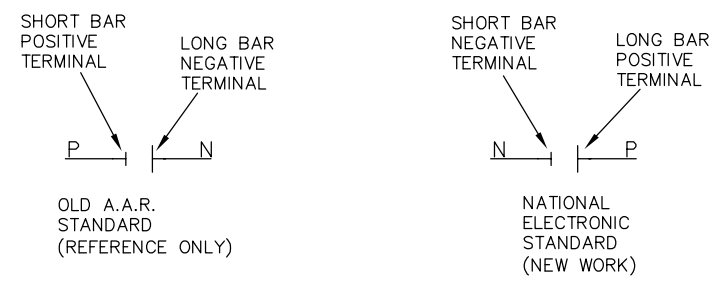
CADD FILE NO.: SD-1202	
REV 0	DATE 061511
GENERAL	
STANDARD NO.: SD-1202	



DETAILS FOR TERMINAL BOARD

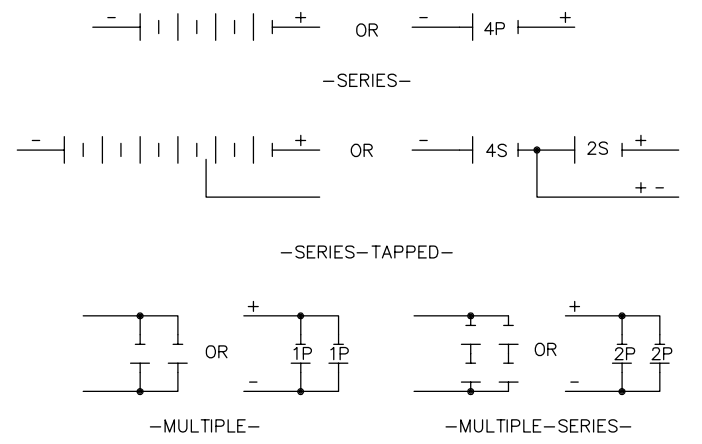


BATTERIES



NOTE:
THE NATIONAL ELECTRONIC STANDARD IS SHOWN HERE TO ACQUAINT OUR PERSONNEL WITH THE SYMBOL USED BY OTHER INDUSTRIES AND IS NOT FOR USE ON SIGNAL CIRCUIT PLANS.

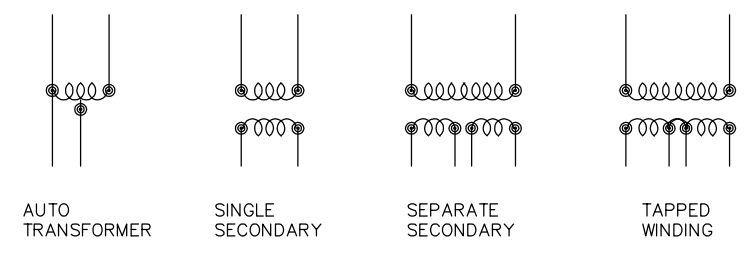
CIRCUIT ARRANGEMENTS



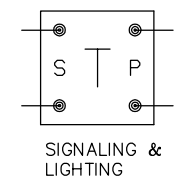
SPECIFY NUMBER OF CELLS USED AND USING SYMBOLS BELOW SHOW THE TYPE

- D-DRY CELLS
- P-PRIMARY CELLS
- S-LEAD STORAGE CELLS
- N-NICKEL-IRON OR NICKEL-CADMIUM STORAGE CELLS

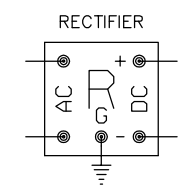
TRANSFORMERS



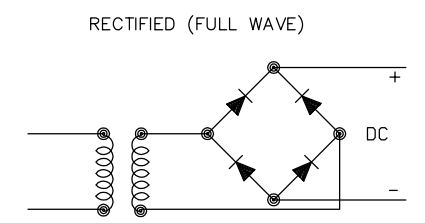
SIMPLIFIED SYMBOL



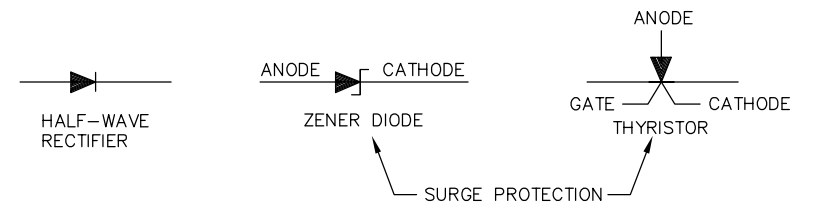
NOTE:
IF PERTINENT, SHOW CAT. NO. OR PC. NO., RATING AND OTHER INFORMATION DESIRED



RECTIFIER
SHOW TYPE AND RATING (I.E. AUTO-20A)



DEVICES USED WITH RECTIFIERS



REV	DATE	BY	CHK	APP	DESCRIPTION

PENINSULA CORRIDOR JOINT POWERS BOARD

APPROVED BY:




ENGINEERING MANAGER DEPUTY DIRECTOR OF ENGINEERING



1250 San Carlos Avenue
San Carlos, CA 94070

STANDARD DRAWINGS

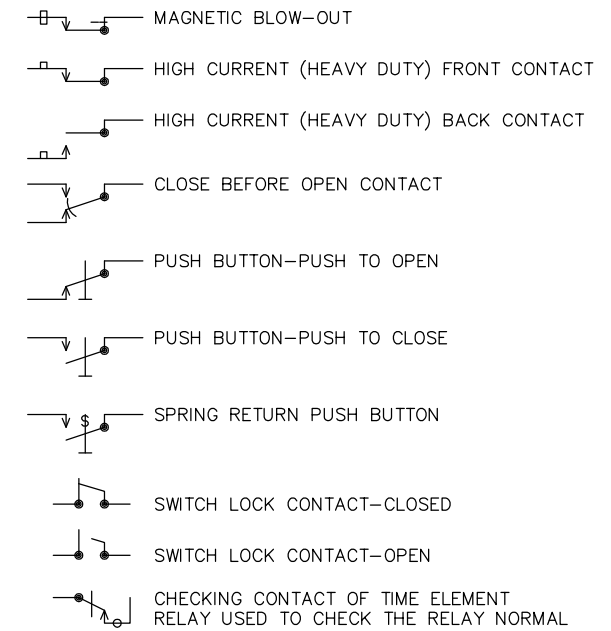
**GENERAL SYMBOLS
SIGNAL COMPONENT
AND CIRCUIT PLANS**

CADD FILE NO.: SD-1203	
REV 0	DATE 050111
GENERAL	
STANDARD NO.: SD-1203	

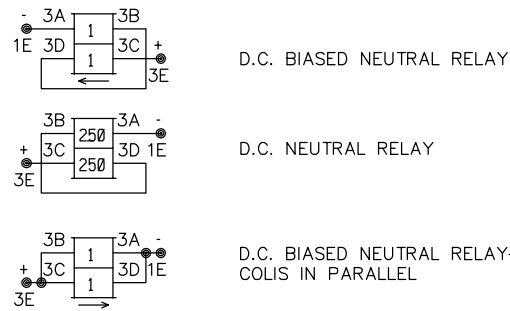
ACCEPTABLE PLUG-IN RELAYS FOR USE ON PCJPB PROJECTS

RELAY DESCRIPTION	BASE TYPE	BASE DWG #	CONTACT CONFIGURATION	GRS	OLD SPTC TAB	SAFETRAN	OLD SPTC TAB
RELAY, 2 OHM BIASED NEUTRAL TRACK	B1	1	4FB-2F-1B	A62-120	RTM	400510	RTN
RELAY, 0.5 OHM BIASED NEUTRAL TRACK	B1	2	4FB-2F-1B	A62-120	RTM	400510	RTN
RELAY 500 OHM BIASED NEUTRAL REGULAR RELEASE	B1	3	6FB	A62-125	RBM	400500	RBN
RELAY, 60 OHM NEUTRAL FLASHER	B1	4	4FB	A62-195	REF	400700-X	RFH
RELAY, 100/100 OHM NEUTRAL POWER TRANSFER	B1	5	6FB HD	A62-579	RXR	400801-X	RXT
RELAY, 450/.069 OHM NEUTRAL LIGHT OUT	B1	7	4FB	A62-217	RXS	400302	R XU
RELAY, 500 OHM BIASED NEUTRAL SWITCH CONTROL	B1	9	2F-2B EHD	A62-429	RWN	400520	RWT
				A62-0744			
RELAY, MICROCHRON TIMING 1 SEC TO 19 MIN 59 SEC	B2	10	2FB-3F-2B	A62-627	RUK	NONE	
RELAY, .064/135 OHM NEUTRAL SWITCH OVERLOAD	B1	11	2CBO	A62-430	RWO	400601	RWU
RELAY, 24 OHM NEUTRAL SLOW RELEASE	B1	13	2FB	A62-365	RLY	400221	
RELAY, 500 OHM NEUTRAL REGULAR RELEASE	B1	14	6FB	A62-262	RLT	400000	RLT1
RELAY, 500 OHM NEUTRAL REGULAR RELEASE	B1	15	6FB HD	A62-580	RLV	400023	RLV1

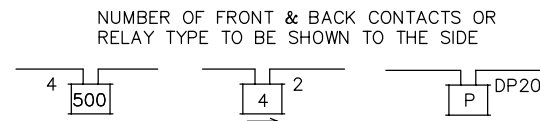
RELAY CONTACTS WITH SPECIAL CHARACTERISTICS



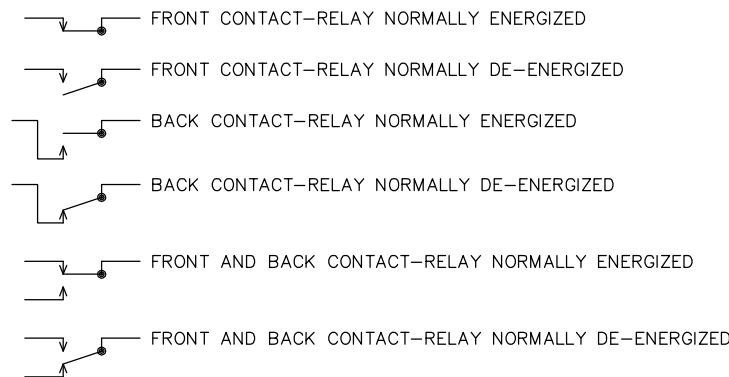
VITAL PLUG-IN RELAYS



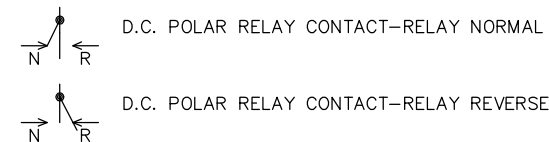
RELAY RESISTANCE OR TYPE TO BE SHOWN IN BOX



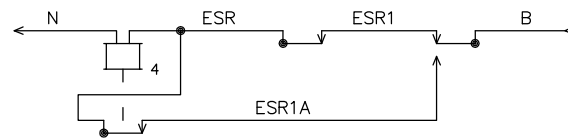
RELAY CONTACTS - TWO POSITION RELAYS



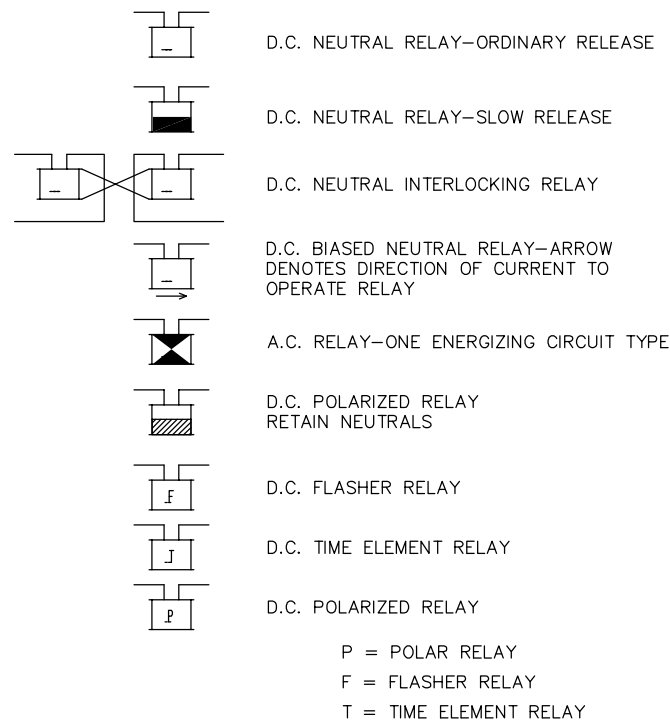
RELAY CONTACTS - THREE POSITION RELAYS



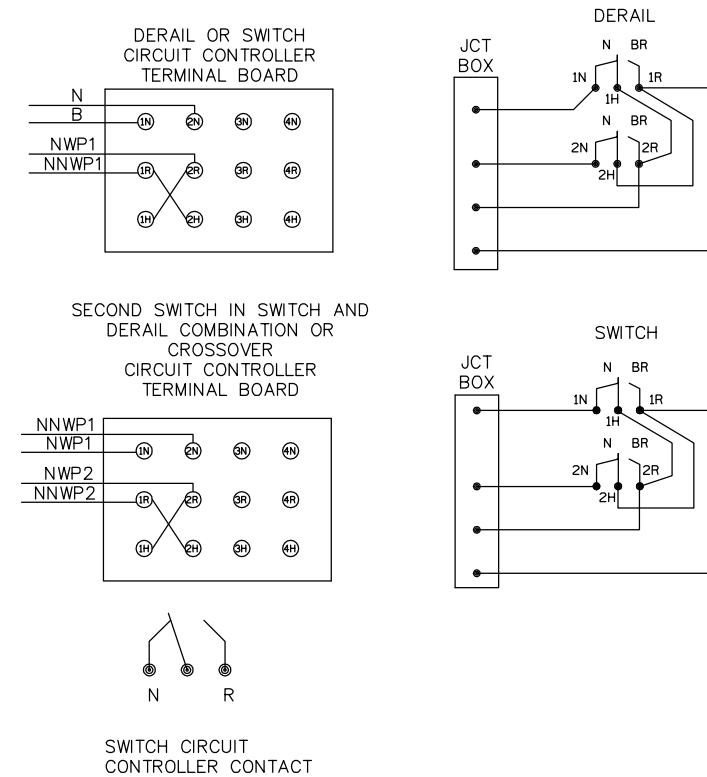
TYPICAL CIRCUIT



SHELF RELAY SYMBOLS



SWITCH CIRCUIT CONTROLLER WIRING















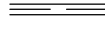

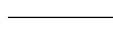



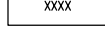
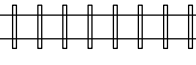


PENINSULA CORRIDOR JOINT POWERS BOARD

STANDARD DRAWINGS

REV	DATE	BY	CHK	APP	DESCRIPTION

APPROVED BY: ENGINEERING MANAGER		 DEPUTY DIRECTOR OF ENGINEERING		 1250 San Carlos Avenue San Carlos, CA 94070		GENERAL SYMBOLS SIGNAL RELAYS, RELAY CONTACTS SHELF AND VITAL RELAYS		CADD FILE NO.: SD-1204	
								REV 0	DATE 050111
								STANDARD NO.: SD-1204	

	CENTRAL CONTROL FACILITY		RELAY
	MICROWAVE SITE		RESISTOR
	DATA RADIO BASE STATION ANTENNA TOWER AND SITE		EARTH GROUND
	SPREAD SPECTRUM REPEATER SITE		CAVITY FILTER
	CONTROL POINT		CAVITY NOTCH FILTER
	50 OHM TERMINATION		CRYSTAL FILTER
	PENINSULA CORRIDOR		SAMPLE TAP / DIRECTIONAL COUPLER
	LEASED 4 WIRE E&M CIRCUITS		FERRITE ISOLATOR
	COAXIAL CABLE		DUPLEXER
	AMPLIFIER OR PRE-AMPLIFIER (XX DENOTES GAIN IN dB)		POWER COMBINER / SPLITTER
	RF DEVICE (XXXX DENOTES DEVICE TYPE)		RAILROAD TRACKS

REV	DATE	BY	CHK	APP	DESCRIPTION	REV	DATE	BY	CHK	APP	DESCRIPTION

PENINSULA CORRIDOR JOINT POWERS BOARD

APPROVED BY:




ENGINEERING MANAGER DEPUTY DIRECTOR OF ENGINEERING



1250 San Carlos Avenue
 San Carlos, CA 94070

STANDARD DRAWINGS

GENERAL SYMBOLS
 VHF VOICE RADIO AND
 DATA RADIO NETWORK

CADD FILE NO.:		SD-1205
REV	DATE	
0	061511	
STANDARD NO.:		SD-1205