

TRACK GEOMETRY – HORIZONTAL

CC COMPOUND CURVATURE
 CS POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL
 k1 TANGENT DISTANCE OF SHIFTED PC REFERRED TO THE TS
 k2 TANGENT DISTANCE OF SHIFTED PT REFERRED TO THE ST
 Lc TOTAL LENGTH OF CIRCULAR CURVE FROM PC TO PT OR SC TO CS
 Lsc LENGTH OF COMPOUND SPIRAL FROM CS TO SC
 Ls1 LENGTH OF SPIRAL FROM TS TO SC
 Ls2 LENGTH OF SPIRAL FROM CS TO ST
 p1 OFFSET FROM INITIAL TANGENT TO PC OF THE SHIFTED CIRCLE OF SPIRALIZED CURVE
 p2 OFFSET FROM INITIAL TANGENT TO PT OF THE SHIFTED CIRCLE OF SPIRALIZED CURVE
 PC POINT OF CURVATURE/POINT OF CHANGE FROM TANGENT TO CIRCULAR CURVE
 PCC POINT OF COMPOUND CURVE
 PI POINT OF INTERSECTION
 POC POINT ON CIRCULAR CURVE
 POS POINT ON SPIRAL
 POT POINT ON TANGENT
 PRC POINT OF REVERSE CURVATURE
 PS POINT OF SWITCH
 PT POINT OF TANGENCY/POINT OF CHANGE FROM CIRCULAR CURVE TO TANGENT
 SC POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE
 SS POINT OF CHANGE FROM ONE SPIRAL
 ST POINT OF CHANGE FROM SPIRAL TO TANGENT
 SPO POINT ON ORIGIN OF COMPOUND SPIRAL
 Ts1 TANGENT DISTANCE FROM TS TO PI
 Ts2 TANGENT DISTANCE FROM ST TO PI
 TS POINT OF CHANGE FROM TANGENT TO SPIRAL
 Xs1 TANGENT OFFSET AT THE SC
 Xs2 TANGENT OFFSET AT THE CS
 Ys1 TANGENT DISTANCE AT THE SC
 Ys2 TANGENT DISTANCE AT THE CS
 Δ TOTAL CENTRAL ANGLE OF THE SPIRALIZED CURVE
 Δc CENTRAL ANGLE OF CIRCULAR CURVE (Lc) FROM SC TO CS
 Δc1 CENTRAL ANGLE OF FIRST CIRCULAR CURVE OF COMPOUND CURVATURE
 Δc2 CENTRAL ANGLE OF SECOND CIRCULAR CURVE OF COMPOUND CURVATURE
 θs1 CENTRAL ANGLE OF SPIRAL LENGTH Ls1 OR SPIRAL ANGLE OF FIRST SPIRAL IN SPIRALIZED CURVE
 θs2 CENTRAL ANGLE OF SPIRAL LENGTH Ls2 OR SPIRAL ANGLE OF SECOND SPIRAL IN SPIRALIZED CURVE
 θsc CENTRAL ANGLE OF COMPOUND SPIRAL OR COMPOUND SPIRAL ANGLE FROM CS TO SC

TRACK GEOMETRY – VERTICAL

BVC BEGIN VERTICAL CURVE
 E TOTAL SUPERELEVATION IN INCHES
 Ea ACTUAL SUPERELEVATION IN INCHES
 Eu UNBALANCED SUPERELEVATION IN INCHES
 EVC END VERTICAL CURVE
 PCVC POINT OF COMPOUND VERTICAL CURVE
 PIVC POINT OF INTERSECTION OF TWO PROFILE TANGENTS
 POVC POINT ON VERTICAL CURVE
 POVt POINT ON VERTICAL TANGENT
 VC VERTICAL CURVE

GENERAL, CIVIL AND TRACK

AB AGGREGATE BASE
 ABN ABANDON
 ABUT ABUTMENT
 AC ASPHALTIC CONCRETE
 ADA AMERICA WITH DISABILITY ACT
 ADJ ADJUSTABLE
 AHD AHEAD
 ALIGN ALIGNMENT
 ALT ALTERNATE
 ALUM ALUMINUM
 APPROX APPROXIMATE
 ARCH ARCHITECTURAL
 AS AGGREGATE SUBBASE
 ASPH ASPHALT
 AVE AVENUE
 AVG AVERAGE
 BAA BOARDING ASSISTANCE AREA
 BBR BEGINNING OF BRIDGE
 BCR BEGIN CURB RETURN
 BEG BEGIN
 BK BACK
 BKF BACKFILL
 BLDG BUILDING
 BLVD BOULEVARD
 BM BENCHMARK
 BOC BOTTOM OF CURB
 BOP BOTTOM OF PIPE
 BOT BOTTOM
 BOW BOTTOM OF WALL
 BR BRIDGE
 BS BOTTOM OF SLOPE
 C CURB
 C&G CURB AND GUTTER
 CAB CABINET
 CALP CORRUGATED ALUMINUM PIPE
 CAP CAPACITY
 CB CATCH BASIN
 CEM CEMENT
 CF CUBIC FEET
 CG CENTER OF GRAVITY
 CI CAST IRON
 CIDH CAST IN DRILLED HOLE
 CIP CAST IN PLACE
 CIV CIVIL
 CJ CONSTRUCTION JOINT
 CL CENTER LINE
 CLK CHAIN LINK
 CLR CLEAR
 CMP CORRUGATED METAL PIPE
 CMU CONCRETE MASONRY UNIT
 CND CONDUIT
 CO CLEANOUT
 COC CENTER ON CENTER
 COL COLUMN
 COMB COMBINE
 COMM COMMUNICATIONS
 CONC CONCRETE
 CONN CONNECTION
 CONST CONSTRUCTION
 CONT CONTINUOUS, CONTINUE
 COORD COORDINATE
 CP CONTROL POINT
 CRV CURVE
 CSP CORRUGATED STEEL PIPE
 CTR CENTER
 CULV CULVERT
 CVR COVER
 CWR CONTINUOUS WELDED RAIL
 CY CUBIC YARDS
 DEL DELINEATORS
 DEP DEPTH
 DET DETAIL
 DFT DRY FILM THICKNESS
 DFX DIRECT FIXATION
 DI DRAIN INLET
 DIA DIAMETER
 DIAG DIAGONAL
 DIM DIMENSION
 DIR DIRECTION
 DIST DISTRIBUTION
 DN DOWN
 DR DRIVE
 DTR DETOUR
 DWG DRAWING
 (E) EXISTING
 E EAST
 EA EACH
 EB EASTBOUND
 EBR END OF BRIDGE
 ECR END CURB RETURN
 EE EACH END
 EF EACH FACE
 EIC EMPLOYEE IN CHARGE
 EJ EXPANSION JOINT
 ELEC ELECTRICAL
 EL, ELEV ELEVATION
 EMB EMBANKMENT
 EMER EMERGENCY
 ENCL ENCLOSURE
 ENGR ENGINEER, ENGINEERING
 EP EDGE OF PAVEMENT
 EQ EQUATION
 EQUIP EQUIPMENT
 ES EDGE OF SHOULDER
 ESMT EASEMENT
 ETW EDGE OF TRAVELED WAY
 EW END WALL
 EXC EXCAVATION
 EXP EXPANSION
 EXT EXTERIOR, EXTENSION
 (F) FUTURE
 FC FACE OF CURB
 FD FLOOR DRAIN
 FDN FOUNDATION
 FF FILTER FABRIC
 FG FINISHED GRADE
 FH FIRE HYDRANT
 FIN FINISH
 FL FLOW LINE
 FLR FLOOR
 FOC FIBER OPTIC CABLE/CARRIER
 FPS FEET PER SECOND
 FR FRAME
 FS FINISH SURFACE
 FT FEET
 FTG FOOTING
 FWY FREEWAY
 GA GAUGE OR GAGE
 GAL GALLON
 GALV GALVANIZED
 GCL GRADING CONTROL LINE
 GND GROUND
 GOV GOVERNMENT
 GP GRADING PLANE
 GPM GALLONS PER MINUTE
 GR GUARDRAIL
 GSP GALVANIZED STEEL PIPE
 HAZ HAZARDOUS
 HB HOSE BIBB
 HD HEAVY DUTY
 HDPE HIGH-DENSITY POLYETHYLENE
 HEX HEXAGONAL
 HH HANDHOLE
 HI HIGH
 HMAC
 HOR HORIZONTAL
 HP HIGH POINT
 HR HANDRAIL
 HS HIGH STRENGTH
 HST HOLLOW STEEL TIE

HT HEIGHT
 HW HEADWALL
 HWY HIGHWAY
 ID INSIDE DIAMETER
 IE INVERT ELEVATION
 IJ INSULATED JOINT
 IN INCHES
 INC INCORPORATED
 INCL INCLUDE, INCLUDING
 INSUL INSULATION
 INT INTERIOR
 INV INVERT
 IR INSIDE RADIUS
 IRR IRRIGATION
 JB JUNCTION BOX
 JT JOINT
 LB POUNDS
 LEG LEGEND
 LF LINEAL FEET
 LG LONG
 LGT LIGHT
 LGTH LENGTH
 LH LEFT-HAND
 LIM LIMITS
 LN LANE
 LOC LOCATION
 LONG LONGITUDINAL
 LP LOW POINT
 LT LEFT
 LTG LIGHTING
 LVL LEVEL
 MAS MAXIMUM AUTHORIZED SPEED
 MAX MAXIMUM
 MECH MECHANICAL
 MED MEDIAN
 MEM MEMBRANE
 MET METAL
 MH MANHOLE, MAINTENANCE HOLE
 MIN MINIMUM
 MISC MISCELLANEOUS
 MOD MODIFIED
 MON MONUMENT
 MOW MAINTENANCE OF WAY
 MP MILEPOST
 MPH MILES PER HOUR
 MSE MECHANICALLY STABILIZED EARTH
 MSL MEAN SEA LEVEL
 MTL MATERIAL
 (N) NEW
 N NORTH
 N/A NOT APPLICABLE
 NB NORTHBOUND
 NIC NOT IN CONTRACT
 NO NUMBER
 NOM NOMINAL
 NTS NOT TO SCALE
 OA OVERALL
 OB OUTBOUND
 OC ON CENTERS
 OCS OVERHEAD CONTACT SYSTEM
 OD OUTSIDE DIAMETER
 OG ORIGINAL GRADE
 OH OVERHEAD
 OP OVERPASS
 OPNG OPENING
 OPP OPPOSITE
 ORG ORGANIZATION
 PAX PASSENGER
 PB PULL BOX
 PC PORTLAND CEMENT, PRECAST CONCRETE
 PCC PORTLAND CEMENT CONCRETE
 PE PROFESSIONAL ENGINEER
 PED PEDESTRIAN
 PERM PERMEABLE
 PERF PERFORATED
 PF PLATFORM
 PG PAGE
 PGL PROFILE GRADE LINE
 PH POTHOLE
 PL PLATE
 P/L PROPERTY LINE
 PNA PERSONS NEEDING ASSISTANCE
 PNL PANEL
 PP POWER POLE
 PPP PERFORATED PLASTIC PIPE
 PAIR PAIR
 PSF POUNDS PER SQUARE FOOT
 PSI POUNDS PER SQUARE INCH
 PT POINT
 PVC POLYVINYL CHLORIDE
 PVMT PAVEMENT
 QTY QUANTITY
 (R) RELOCATED
 R RADIUS
 RC REINFORCED CONCRETE
 RCP REINFORCED CONCRETE PIPE
 RD ROAD
 RECT RECTANGULAR
 REF REFERENCE
 REINF REINFORCED
 REL RELOCATE
 REQD REQUIRED
 REV REVISION
 RH RIGHT-HAND
 RO ROUGH OPENING
 RR RAILROAD
 RT RIGHT
 RTE ROUTE
 RW RETAINING WALL
 ROW RIGHT-OF-WAY
 S SOUTH
 SALV SALVAGE
 SB SOUTH BOUND
 SCHED SCHEDULE
 SD STORM DRAIN
 SECT SECTION
 SERV SERVICE
 SF SQUARE FEET
 SG SUBGRADE
 SHT SHEET
 SIG SIGNAL
 SIM SIMILAR
 SL SLOPE
 SPEC SPECIFICATION
 SQ SQUARE
 SS STAINLESS STEEL, SANITARY SEWER
 ST STREET
 STA STATION
 STD STANDARD
 STIFF STIFFENER
 STL STEEL
 STRL STRUCTURAL
 STRUCT STRUCTURE
 SWK SIDEWALK
 SY SQUARE YARDS
 SYMB SYMBOL
 SYMM SYMMETRICAL

T&B TOP AND BOTTOM
 TAN TANGENT
 TBD TO BE DETERMINED
 TC TOP OF CONCRETE
 TD TRENCH DRAIN
 TEL TELEPHONE
 TEMP TEMPERATURE
 TF TRACK FEET
 TH THICK
 TO TURNOUT
 TOC TOP OF CURB
 TOG TOP OF GRATE
 TOL TOLERANCE
 TOP TOP OF PAVEMENT, TOP OF PIPE
 TOR TOP OF RAIL
 TOS TOP OF SLOPE
 TOT TOP OF TIE
 TOW TOP OF WALL
 TRANS TRANSITION
 TS TUBULAR STEEL
 TUB TUBULAR
 TVM TICKET VENDING MACHINE
 TYP TYPICAL
 UB UTILITY BOX
 UD UNDERDRAIN
 UG UNDERGROUND
 UON UNLESS OTHERWISE NOTED
 UP UNDERPASS
 UTIL UTILITY
 VAR VARIES
 VEH VEHICULAR, VEHICLE
 VEL VELOCITY
 VERT VERTICAL
 VMB VISUAL MESSAGE BOARD
 VMS VISUAL MESSAGE SIGN
 VOL VOLUME
 W WEST
 W/ WITH
 W/O WITHOUT
 WB WESTBOUND
 WP WORK POINT
 WPF WATERPROOF
 WRT WITH RESPECT TO
 WT WEIGHT
 WWM WELDED WIRE MESH
 XING CROSSING
 XOVER CROSSOVER
 YD YARDS
 YR YEAR

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	
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