P0728-C700-DU-013.RFC.R1

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SSH JV

# SCVWD 66" Central Pipeline Design Unit 013 Ready for Construction Revision 1

SVBX C700

Thursday, January 17, 2013

HALF SIZE COPY

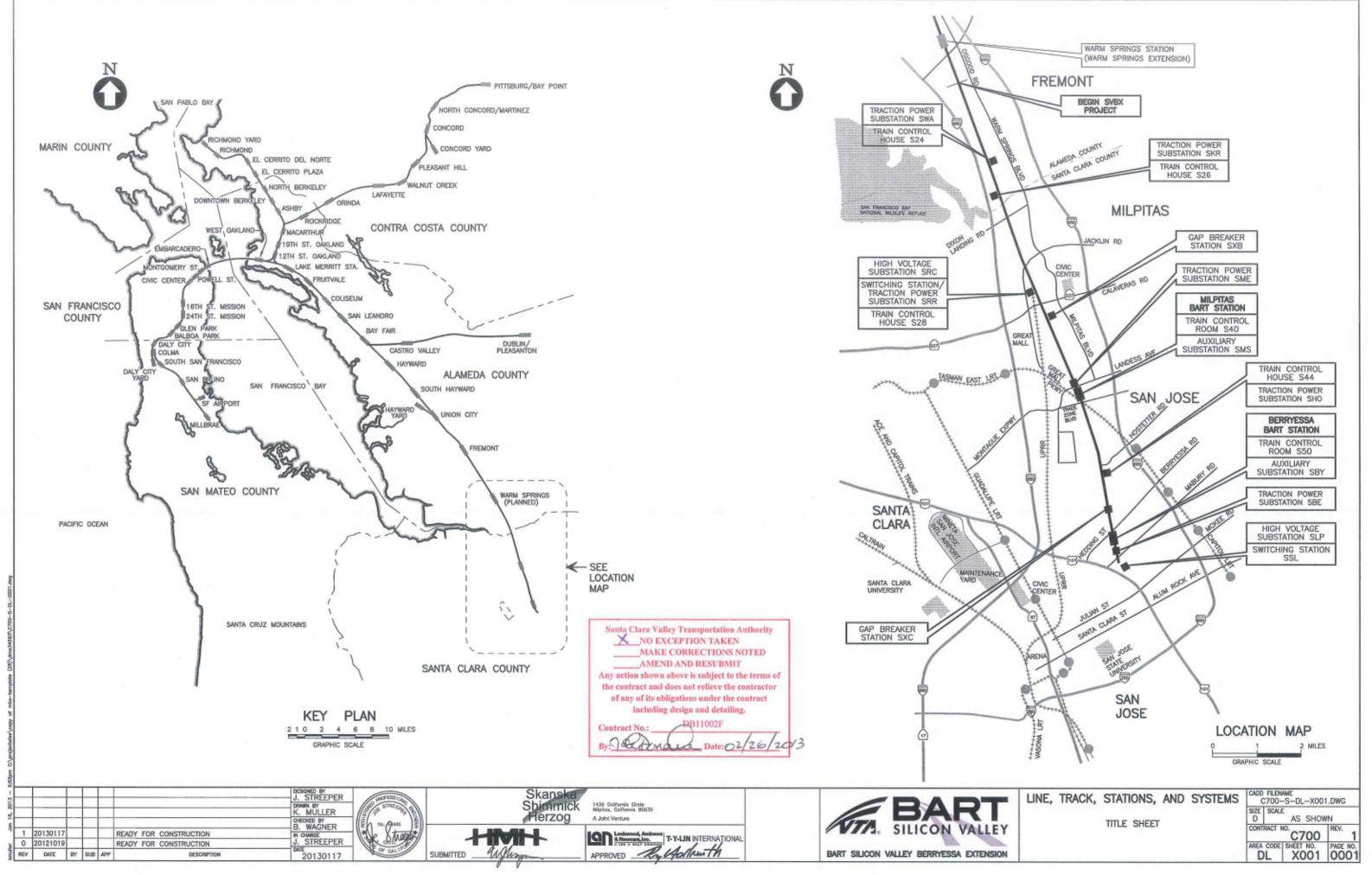


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# DU-013

B130-F436





	DWG NO.	REV NO.	TITLE			DWG NO.	REV NO.	
GENERAL 0001	mi	1	TITLE SHEET		ETAILS 019	- 66" WA	TER 1	CONTINUED) SCVWD WATER PIPELINE DETAILS
0002	DL-X010	1	INDEX OF DRAWINGS					TRENCH SECTIONS
0003	DL-X200	1	GENERAL ABBREVIATIONS, SHEET 1 OF 4	L 0	020	LS-U461	1	SCVWD WATER PIPELINE
0004	DL-X201	1	GENERAL ABBREVIATIONS, SHEET 2 OF 4	Ļ.				TRENCH SECTIONS
0005	DL-X202	1	GENERAL ABBREVIATIONS, SHEET 3 OF	+ _C	021	LS-U462	-1	SCWID WATER PIPELINE
0006	DL-X203	1	GENERAL ABBREVIATIONS, SHEET 4 OF 4	۶.				TRENCH CUTOFF
0007	DL-U001	1	SUPPLEMENTAL UTILITY NOTES, ABBREVIATIONS AND SYMBOLS	c	022	LS-U465	1	SCWID WATER PIPELINE DETAILS TEST LEAD AND BOND CABLE DETAILS
SURVEY	CONTROL LS-C030	Ρ	SURVEY CONTROL DATA	C	023	LS-U466	1	SCWID WATER PIPELINE DETAILS CORROSION CONTROL TEST STATION
	LS-C031	Ρ	SURVEY CONTROL DATA INDEX SHEET	c	024	LS-U467	1	)
'ee	LS-C047	Ρ	SURVEY CONTROL DATA 16 OF 18	c	025	LS-U470	1	SCWD WATER PIPELINE
	UTILITIES	1	EXISTING UTILITIES PLAN AND DATA S1 527+50 TO S1 535+00	c	026	LS-U471	1	66" DIAMETER SCYWD WATER PIPELINE DETAILS
	ITE UTILITIES		COMPOSITE UTILITY RELOCATION PLAN	c	027	LS-U472	1	SCVWD WATER PIPELINE
	RELOCATION	- 66	51 527+50 TO S1 638+00 539	c	028	LS-U473	1	DETAILS
0010	DLU785	1	UTILITY RELOCATION — SCVWD WATER 66" STEEL PIPE BERRYESSA STATION	c	029	LSU474	1	DETAILS
0011	DL-U786	1	PROFILE "W66"					SEALANT )
			66" WATER LINE	c	030	LS-U475	1	SCVWD WATER PIPELINE DETAILS VAULT DETAILS
	- 66" WAT LS-U450	TER 1	SCWID WATER PIPELINE DETAILS	c	031	LS-U468	1	SCVWD WATER PIPELINE DETAILS VAULT DETAILS
0013			FIELD JOINTS SCVWD WATER PIPELINE	c	032	LS-S400	0	
0013	LS-U451		DETAILS JOINTS	c	033	LS-S401	0	VAULT DETAILS, SHEET 1 OF 34 SCVWD WATER PIPELINE DETAILS VAULT DETAILS, SHEET 2 OF 34
0014	LS-0452	1	SOWD WATER PIPELINE DETAILS NOZZLE		034	LS-S402	0	SCVWD WATER PIPELINE DETAILS VAULT DETAILS, SHEET 3 OF 34
0015	LS-U453	1	SCWWD WATER PIPELINE DETAILS TEMPORARY ACCESS HOLE			15-540?	5	SCUND WATER PIPELINE DETAILS VALLET DETAILS, SHEET 4 OF 4
0016	LS-U454	1	SCVWD WATER PIPELINE DETAILS BULKHEADS					
0017	LS-U455	1	SCWD WATER PIPELINE DETAILS CONNECTIONS					
0018	LS-U456	1	SCWWD WATER PIPELINE DETAILS TYPICAL WELDS					
$\sim$	$\sim$	~						
			J.	STREEPER	- AL			Skanska Shimmiak 198 Gifwin Gok
1 2013011			FOR CONSTRUCTION	MULLER EDGED BY WACNER CHARGE STREEPER	Tranks		H	Sbirmmick Magness Greek Herzog A John Venture International International
0 2012101 EV DATE			DA	20130117	AL LYCE	SUBMITTED	- 4	approved Ray Holkinth BART SILLOOM



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Santa Clara Valley Transportation Authority
NO EXCEPTION TAKEN
MAKE CORRECTIONS NOTED
AMEND AND RESUBMIT
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 Joh dream Date 2/26/13

# NOTE:

\*\* FOR REFERENCE ONLY

Ι	LINE,	TRACK,	STATIONS,	AND	SYSTEMS	CADD F	ILENAME 100-S-DL-X01	0.dwg
		IND	EX OF DRAW	INGS		SIZE S D CONTRA	NONE CT NO.	REV.
						AREA O	C700 ODE SHEET NO. X010	PAGE NO. 0002

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	ENCIES. ORGANIZATIONS ETC.		- SPECIAL CHARACTERS -	ATP ATR	AUTOMATIC TRAIN PROTECTION AIR TEMPERATURE RISE	cc	CENTRAL CONTROL/CONTROLLER, COOLING COIL, CENTER OF CIRCULAR	CSAR CSB	CAB STEERING RELAY A CUSTOMER SERVICE BUILDING	DTR DETOUR DTS DATA TRANSMISSION SYSTEM, DIGITAL
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION	6	CENTER LINE AND	ATS ATTS	AUTOMATIC TRANSFER SWITCH AUXILIARY TRAIN TRACKING SYSTEM	C-C	CURVE CENTER TO CENTER	CSBR CSD	CAB STEERING RELAY B CEILING SUPPLY DIFFUSER	TRANSMISSION SYSTEM DTSJ DOWNTOWN SAN JOSE
ACFC & WCD	OFFICIALS ALAMEDA COUNTY FLOOD CONTROL AND	ø F	DIAMETER TEMPURATURE – FARENHEIT SCALE	AUX AVE	AUXILIARY AVENUE	CCF	(REMOTELY LOCATED)	CSEX CSP	CODE SYSTEM EMULATOR, EXTENDED CORRUGATED STEEL PIPE	DW DOMESTIC WATER DWG(S) DRAWING(S)
CI	WATER CONSERVATION DISTRICT AMERICAN CONCRETE INSTITUTE	0	AT (ITEM SPACINGS ONLY, IE #8012") ANGLE (MEMBER SIZE IE L4X4X5/16)	AVG	AVERAGE AUTOMATIC VEHICLE IDENTIFICATION	CCN	COMMUNICATIONS CABLE NETWORK CENTRAL CONTROL PANEL	CSR	CAB STEERING RELAY, CEILING SUPPLY REGISTER	DX DIRECT EXPANSION
CWD GA	ALAMEDA COUNTY WATER DISTRICT AMERICAN GAS ASSOCIATION	01,02	VITAL RÉPEATER	AVV AWG	AIR VACUUM VALVE AMERICAN WIRE GAUGE	CCS CCS83	CENTRAL CONTROL SYSTEM CALIFORNIA COORDINATE SYSTEM 1983	CSU	CHANNEL SERVICE UNIT CERAMIC TILE, CURRENT TRANSFORMER,	
R SC	AIR PRODUCTS AMERICAN INSTITUTE OF STEEL	2/C 3/C	TWO-CONDUCTOR CABLE THREE-CONDUCTOR CABLE	110			(RELATES TO NAD83)	стс	COURTESY TELEPHONE, COURT CENTRALIZED TRAIN CONTROL,	
	CONSTRUCTION				— B —	CCTL CCTV	CORROSION CONTROL TEST LEADS CLOSED CIRCUIT TV CAMERA, CLOSED		COMMUNICATIONS TERMINAL CABINET	
NSI	AMERICAN NATIONAL STANDARDS			B, BOT	DC VOLTAGE - POSITIVE BOTTOM	CD	CIRCUIT TELEVISION CONDENSATE DRAIN, CONCRETE DUCT	CTCSS	CONTINUOUS TONE CODED SQUELCH SYSTEM	
PCO	ASSOCIATED PUBLIC SERVICE COMMUNICATIONS OFFICERS		- A -	B/0 B12	BOTTOM OF POS. 12VDC	CDB CEC	CENTRAL DISPLAY BOARD CALIFORNIA ELECTRICAL CODE	CTR	CENTER, COMMUNICATIONS TERMINATION ROOM	
REMA	AMERICAN PETROLEUM INSTITUTE AMERICAN RAILWAY ENGINEERING AND	A AFF	AMPERE, AMBER ABOVE FINISHED FLOOR	B28 BAT	POS. 28VDC BATTERY	CEG CEM	CEILING EXHAUST GRILLE CEMENT	CTSK	COUNTERSUNK CONDENSING UNIT, COPPER	
TM	MAINTENCE-OF-WAY ASSOCIATION AMERICAN SOCIETY FOR TESTING AND	A/D AATC	ANALOG-TO-DIGITAL CONVERTER ADVANCED AUTOMATIC TRAIN CONTROL	BB	BACK BONE, BEGINNING OF BRIDGE	CER	CERAMIC	CULV	CULVERT CHECK VALVE, CURVE	
&T	MATERIALS AMERICAN TELEPHONE & TELEGRAPH	AAV	AUTOMATIC AIR VENT	BBC BC	BILL-TO-BILL CHANGER BARE COPPER, BOTTOM OF CURB,		CUBIC FOOT/FEET, CONTROL RELAY, FORWARD (SUPPLY)	CW CWR	COLD WATER, CREOSOTED WOOD CONTINUOUS WELDED RAIL	
VS	AMERICAN WELDING SOCIETY	AB	AGGREGATE BASE, ANCHOR BOLT, ARRESTOR BLOCK	BCM	BEGIN CURVE BILL CHANGE MACHINE	CF/DA	CALL FORWARD/DON'T ANSWER (TELEPHONE FEATURE)	CX	CURRENT SENSOR	
RT	SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT	ABM ABN	AIR-BLOWN MORTAR ABANDON(ED)	BCR BCU	BEGIN CURB RETURN BARE COPPER	CFH	CUBIC FEET PER HOUR CUBIC FEET PER MINUTE	CXFU CY	CONTROL FUSE - LV SIDE CUBIC YARD(S)	
OF A	BURLINGTON NORTHERN SANTA FE BANK OF AMERICA	ABS	ACRYLONITRILE-BUTADIENE-STYRENE, AUTOMATIC BLOCK SIGNAL	BD	BALANCING DAMPER, BY-PASS DAMPER, BOARD	CFT	CONTACT FIBER TRANSCEIVER		- D -	
LTRANS	CALIFORNIA DEPARTMENT OF TRANSPORTATION	ABT ABUT	ANCHOR BOLT	BDA BDD	BI-DIRECTIONAL AMPLIFIER BACKDRAFT DAMPER	CG	CENTER OF GRAVITY, CEILING GRILLE, CHASSIS GREASE REEL	n	DEPTH, DRAIN, DRAINAGE	
IS IEV	CALIFORNIA GEOLOGICAL SURVEY CHEVRON CORPORATION	ABUT	ABUTMENT AIR COMPRESSOR, AIR CURTAIN, AIR	BER	BIT ERROR RATE	CH CH BK	CHANNEL CHANNEL BANK	D/A	DIGITAL-TO-ANALOG CONVERTER	
0F	CITY OF FREMONT CITY OF MILPITAS		CONDITIONING, ASPHALT CONCRETE, ALTERNATING CURRENT	BFD BFP	BLACK ROLL FIBER DUCT BACK FLOW PREVENTER	CHFU CHWR	CONTROL FUSE - HV SIDE CHILLED WATER RETURN	D/F D/L	DISTRICT FURNISHED DOWN LINK	
DMCAST	COMCAST CABLE COMMUNICATIONS	ACB ACCP	AIR CIRCUIT BREAKER AIR CONDITIONING CONTROL PANEL	BFS BGS	BART FACILITY STANDARD BELOW GROUND SURFACE	CHWS	CHILLED WATER SUPPLY CAST IRON	DA DACS	DISTRIBUTION AMPLIFIER DIGITAL ACCESS AND CROSS CONNECT	
PUC GO	CALIFORNIA PUBLIC UTILITY COMMISSION CALIFORNIA PUBLIC UTILITY	ACD	ACCESS DOOR AUTOMATIC CALLER IDENTIFICATION	BHP	BRAKE HORSE POWER BINARY DIGIT	CIC	COMMUNICATIONS INTERFACE CABINET	DAS	DATA ACQUISITION SYSTEM DRY BULB, DUCTBANK	
SC	COMMISSION GENERAL ORDER CITY OF SANTA CLARA	ACK	ACKNOWLEDGE ALTERNATING CURRENT OUTPUT	BITUM BK	BITUMINOUS BACK	CJ	CAST IRON PIPE, CAST IN PLACE CONSTRUCTION JOINT, CONTROL JOINT	dB	DECIBEL	
ij Isl	CITY OF SAN JOSE CONCRETE REINFORCING STEEL INSTITUTE	ACOUS	ACOUSTICAL	BKF BKR	BACKFILL BREAKER	CKT CL	CIRCUIT CEMENT LINED, CENTERLINE, CHAIN LINK	DBC	DIRECT BURIED CABLE DOUBLE	
x cs	FEDERAL EXPRESS FEDERAL GEODETIC CONTROL		ASBESTOS CEMENT PIPE, AC PANEL, AUXILIARY CONTROL PANEL,	BLDG	BUILDING	CL&C CLF	CEMENT LINED AND COATED CHAIN LINK FENCE	DB0 DC	DOUBLE BREAK OUTPUT DIRECT CURRENT, DEGREE OF CURVE	
	SUBCOMMITTEE	ACR ACS	AUXILIARY COMM ROOM ACCESS CONTROL SYSTEM	BLKG BLKS	BLOCKING BLOCKS	CLG CLKG	CEILING CAULKING	DCC	DATA COMMUNICATIONS CHANNEL DATA COMMUNICATIONS NETWORK	
Э В	ICG COMMUNICATIONS, INC. PENINSULA CORRIDOR JOINT POWERS	ACTR	ACOUSTICAL TREATMENT AIR CONDITIONING UNIT	BLS	BLUE LIGHT STATION, BLUE LIGHT SWITCH STATION	CLO	CLOSET CLEAR, CLEARANCE	DCP	DAMPER CONTROL PANEL DOWN DRAIN	
ND, KM	BOARD KINDER MORGAN, INC.	ACWP AD	ASBESTOS CEMENT WATER PIPE AREA DRAIN, ADDENDUM	BLVD BM	BOULEVARD BEAM, BENCHMARK	CMP	CORRUGATED METAL PIPE	DDCVA	DOUBLE DETECTOR CHECK VALVE	Santa Clara Valley Transportation Authority
, LVL3	LEVEL 3 COMMUNICATIONS MCI TELECOMMUNICATIONS	ADD'L	ADDITIONAL	BO BOC	BLOW OFF BOTTOM OF CONCRETE	CMU CND	CONCRETE MASONRY UNIT CONDUIT	DDS DEG	DYNAMIC (TRAIN) DESTINATION SIGN DUCT EXHAUST GRILLE, DEGREE	NO EXCEPTION TAKEN
CWD	MILPITAS CITY WATER DISTRICT METROMEDIA FIBER NETWORK, INC.	ADJ ADM	ADJACENT, ADJUSTABLE ADD/DROP MULTIPLEXER	BOD	BOTTOM OF DUCT	CNTL CNTR	CONTROL COUNTER	DEL DEPT	DELINEATORS, DELETE DEPARTMENT	MAKE CORRECTIONS NOTED
FS	METROPOLITAN FIBER SYSTEMS MILPITAS SANITARY DISTRICT	AEI	AUTOMATIC ELECTRONIC IDENTIFICATION (SYSTEM)	BORI BOS	BIDIRECTIONAL OPTICAL RF INTERFACE BOTTOM OF SLAB	co	CLEANOUT, COUNTY, CROSSOVER, CONVENIENCE OUTLET,	DET	DETAIL, DETOUR, DETECTOR DIRECT FIXATION, DRINKING FOUNTAIN,	AMEND AND RESUBMIT Any action shown above is subject to the terms of
EMA	NATIONAL ELECTRICAL MANUFACTURERS	AF	AIR FILTER, AUDIO FREQUENCY, ANTI-FREEZE REEL	BOW BP	BACK OF WALK BART POLICE		CARBON MONOXIDE SENSOR, CONDUIT ONLY	DFE	DEGREES FAHENHEIT DISTRICT FURNISHED EQUIPMENT	the contract and does not relieve the contractor
FPA	ASSOCIATION NATIONAL FIRE PROTECTION AGENCY	AFC	AUTOMATIC FARE COLLECTION	BPS	BITS PER SECOND BRIDGE	CO1	SUPERVISORY CENTRAL CONTROL BOARD	DFM	DISTRICT FURNISHED MATERIAL,	of any of its obligations under the contract
DAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	AFF AFM	ABOVE FINISH FLOOR ADD FARE MACHINE	BRG(S) BRKR	BEARING(S) BREAKER	COAX COL(S)	COLUMN(S)	DG	DISTRIBUTION FEEDER MAIN DOOR GRILLE	including design and detailing.
NT G&E	ONE WORLD TELECOMMUNICATIONS PACIFIC GAS & ELECTRIC COMPANY	AG AH, AHD	ABOVE GROUND AHEAD	BRR	BROKEN RAIL RELAY	COMM	COMMUNICATION(S) COMPUTER, COMPOSITE	DGAC	DENSE GRADED ASPHALT CONCRETE DUCTILE IRON, DIGITAL INPUT,	Contract No.: DIST1002F
WEST	QWEST COMMUNICATIONS, INC. SBC COMMUNICATIONS, INC. (NOW AT&T)	AHU	AIR HANDLING UNIT ADDITIONAL INFO, ANALOG INPUT	BS BSI	BOTTOM OF SLOPE BAYSTATE SUBSURFACE INVESTIGATION	COMPT	COMPARTMENT	DIA	DRAINAGE INLET, DIRECT INPUT DIAMETER	By: 9-te Doreden Date: 02/26/1
WR	SOUTH BAY WATER RECYCLING (CSJ)	AL	ALIGNMENT	BSS BTM	BUS SIGNAL SYSTEM BUS TRANSFER MACHINE	COND	CONDENSATE, CONDENSING, CONDITIONED CONNECT, CONNECTION	DIAG	DIAGONAL DIRECT INWARD DIALING	
CCTA	SANTA CLARA COUNTY SANTA CLARA COUNTY TRANSPORTATION	ALUM	ALUMINUM AUTOMATIC LEVEL CONTROL UNIT	BTS BTS	BASE TRANSCEIVER STATION BASE TRANSCEIVER STATION	CONST	CONSTRUCT, CONSTRUCTION	DIM	DIMENSION DUCTILE IRON PIPE	
SD	AGENCY SANTA CLARA SEWER DISTRICT	ALT	ALTERNATE, ALTERNATIVE	BTU BTUH	BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR	CONT	CONTINUOUS, CONTINUATION CONVENTIONAL	DIPIS	DOOR INTERLOCK PROTECTION ISOLATION SCHEME	
VWD	SANTA CLARA VALLEY WATER DISTRICT SAN FRANCISCO	AMB	AMMETER, AMPLITUDE MODULATION AMBIENT	BV BVC	BUTTERFLY VALVE BEGIN VERTICAL CURVE	COORD	COORDINATE CORPORATION	DIR	DIRECT, DIRECTION	NOTES:
WD SU	SAN FRANCISCO WATER DEPARTMENT SAN JOSE STATE UNIVERSITY	AMP ANCH	AMPLIFIER ANCHOR	BW	BARBED WIRE, BACK OF WALK,	CORR	CORRIDOR CONTINUOUSLY OPERATING REFERENCE	DISP DIST	DISPENSER DISTRIBUTION, DISTRICT, DISTANCE	<ol> <li>ABBREVIATIONS SHOULD ONLY BE USED WHEN SPACE LIMITATIONS ON THE DRAWING DOES NO</li> </ol>
WC R	SAN JOSE WATER COMPANY SPRINT NEXTEL CORPORATION	ANN ANS	ANNUNCIATOR AMBIENT NOISE SENSOR	BX	BANDWIDTH AC VOLTAGE	CP	STATIONS CONCRETE PIPE, CONTROL POINT,	DL DMH	DEAD LOAD, DOOR LOUVER DRAINAGE MANHOLE	ALLOW FOR THE FULL TEXT.
TC	SOUTHERN PACIFIC TRANSPORTATION	ANT	ANTENNA ANALOG OUTPUT	BX12	POSITIVE 12V AC		COMPLETE PENETRATION, CROSS PASSAGE, CONTROL PANEL	DMOD DMP	DEMODULATE DESIGNATED MATCHING PRODUCT	2. SOME ABBREVIATIONS ARE CONSIDERED COMM
вх	COMPANY BART SILICON VALLEY BERRYESSA	AOV	ANGLE OF VIEW ACCESS PANEL		- c -	CPB CPC	CORRIDOR PROTECTION BARRIER CALIFORNIA PLUMBING CODE	DN DO	DOWN DIGITAL OUTPUT, DOOR OPENING, DITTO	OR WIDESPREAD AND CAN BE USED UNIVERSA I.E., TYP FOR TYPICAL; UNO FOR UNLESS NOT
ε	EXTENSION PROJECT SILICON VALLEY ELECTRIC	APD	AIR PRESSURE DROP	с	CELSIUS, CONDUIT, COIL, COMBINER, CONDUCTOR, COVER	CPL	CONDUIT, PLASTIC	DOD	DIRECT OUTWARD DIALING, DIFFERENTIAL PRESSURE, DISTRIBUTION	OTHERWISE.
'P 'RT	SILICON VALLEY POWER SILICON VALLEY RAPID TRANSIT PROJECT	APP	ASSESSOR PARCEL NUMBER APPROACH	C&G	CURB AND GUTTER	CPLG CPP	COUPLING CORRUGATED PLASTIC PIPE		PANEL	<ol> <li>ABBREVIATIONS WITH MULTIPLE DEFINITIONS SHOULD BE READ IN RELATION TO THE ITEM.</li> </ol>
E	TAMPA BAY ENGINEERING TCI CABLE VISION OF CALIFORNIA	APPROX APT	APPROXIMATE ACOUSTICAL PANEL CEILING	C/B C/R	COVER BOARD CONTACT RAIL	CPT CPU	CARPET CENTRAL PROCESSING UNIT	DR DRWY	DOOR, DRIVE DRIVEWAY	AND DISCIPLINE OF THE DRAWING ON WHICH I OCCURS.
L	WILLIAM TEL. COMMUNICATIONS	ARA ARCH	AREA OF RESCUE ASSISTANCE ARCHITECTURAL	C/W CA	COMPLETE WITH COMPRESSED AIR, COMPRESSED AIR	CPU/PD	CENTRAL PROCESSOR UNIT/POLYNOMIAL DIVIDER	DS	DISCONNECT SWITCH, DOWNSPOUT, DESK SET UNIT	
RR	UNDERWRITERS LABORATORY UNION PACIFIC RAILROAD COMPANY	ARS	ACCELERATION RESPONSE SPECTRUM AIR RELEASE VALVE	CAB	REEL, CABLE CABINET, TRAIN SPEED SIGNAL	CR CRD	CARD READER, CROWN, CONTACT RAIL	DS0 DS1	DIGITAL SIGNAL (LEVEL 0) DIGITAL SIGNAL (LEVEL 1)	<ol> <li>ABBREVIATIONS MAY BE COMBINED WHEN NEED I.E. DIP-CL (DUCTILE IRON PIPE, CEMENT LINE</li> </ol>
C&GS	UNITED STATES COAST AND GEODETIC SURVEY	AS	AGGREGATE SUBBASE, AMMETER SWITCH	CAL	CALIPER	CRG	CEILING RETURN DIFFUSER CEILING RETURN GRILLE	DSM	DEEP SOIL MIX	NS&FS (NEAR SIDE AND FAR SIDE)
SD SPS	UNION SANITARY DISTRICT UNITED STATES POSTAL SERVICE	ASR	APPROACH LOCKING STICK RELAY,	CAP	CAPACITOR, CAPACITY, CORRUGATED ALUMINUM PIPE	CRK	CREEK CATHODE RAY TUBE	DSS DSU	DESTINATION SIGN SYSTEM DESTINATION SIGN UNIT,	
RZ A, SCVTA	VERIZON COMMUNICATIONS SANTA CLARA VALLEY TRANSPORTATION	AT	AUTOMATIC SPRINKLER RISER AMMETER TRANSDUCER	CAT CATV, CTV	CATEGORY (AS IN CAT 5 CABLE) CABLE TELEVISION	CS	CONTACT SWITCH, CONTROL SWITCH, POINT OF CHANGE FROM CIRCULAR	DSX	DATA SERVICE UNIT DIGITAL CROSSCONNECT	
0	AUTHORITY XO COMMUNICATIONS	ATC ATO	AUTOMATIC TRAIN CONTROL AUTOMATIC TRAIN OPERATION	CB	CATCH BASIN, CIRCUIT BREAKER, CONVERTER BLOCK	CSA	CURVE TO SPIRAL CONSTRUCTION STAGING AREA	DTMF	DUAL TONE MULTIFREQUENCY	
			DESIGNED BY		Skanska					CADD FLENAME
			J. STREEPER		Sbimmick 1435 California Gircle Mipiton, California 95035			BA	DT LINE, TRACK, STATI	ONS, AND SYSTEMS C700-S-DL-X200.dwg
			H. MULLER		Herzog A Joint Venture		AITA A		GENERAL AB	BREVIATIONS D NONE
	READY FOR CONSTRUCTION		IN CHARGE		Lockwood, Andrews A. Newman, Inc.		/ //2. SI	LICON		1 OF 4 CONTRACT NO. C700
20130117 20121019	READY FOR CONSTRUCTION		J. STREEPER	-	APPROVED APPROVED	IN INTERNATIONA		and the second s	oneer	AREA CODE SHEET NO. PAG

										1_DU-013_RFC_R	1_SCVWD 66	in Drawings 20130117.pdf
		- E -					HI					— M —
	-	EAST SUBSERED DIATION IN INCLISS			FSK				JMP		M	MAIN CONTACTOR METER MEDILIN
	E.åcM											
	Ea		EXIST		1	COMPUTERFAULT TOLERANT			JT(S), J/T	JOINT(S), JOINT TRENCH, LOSS OF		
					FTC		HP					
							HPGN		JUE	JUINT UTILITY EASEMENT	mA	
		EASTBOUND, END OF BRIDGE,	EXPWY	EXPRESSWAY	FTVM	FUTURE TICKET VENDING MACHINE		NETWORK	1	— К —		
	EBH											
			EAIR	EXTRACTOR								
	EBP	EMERGENCY BACKUP PANEL		- F -	FUT	FUTURE	HSE	HOUSE				
			-						KC	MANUAL TIMER		
	ECC		F									
	ECH	ELECTRIC CABINET HEATER	FACP	FIRE ALARM CONTROL PANEL	FWY	FREEWAY						
									KOP	KNOCKOUT PANEL		
					FAS	FOREIGN EXCHANGE. STATION END	Inv .					
			FB	FLAT BAR, FACE OF BUILDING	1	- G -						MEDIA CONVERTER
			FC				HVAC					
	CERMS		50		g		HVS					
	EF	EACH FACE, EXHAUST FAN	10		0			TYPE			MD	MOTORIZED DAMPER
	EFF EG		f'ci	COMPRESSIVE STRENGTH OF								
	EHH	ELECTRICAL HANDHOLE	FCD								MEGA	ONE MILLION
	EIO		FCM	FRACTURE CRITICAL MEMBER	Gb	GIGABIT			6mil	RECHAIT HOOR		
				FLOOR CLEAN OUT	GB	GROUND BUS, GYPSUM BOARD,				- L -	MP	
	EJEC	EJECTION / EJECTOR		FLOOR DRAIN, FRENCH DRAIN,					L.	LENGTH LONG LOUVER LIQUID		MANUFACTURER
	EL ELB			FAN DAMPER, FIBER DUCT	GBS	GAP BREAKER STATION,		-1-	(L)			
	ELEC				Che		L INTLK	INTERLOCK				
		ELEVATOR	FDCR		GCL						MHz	MEGAHERTZ
	E'LY		FDDI	FIBER DISTRIBUTED DATA INTERFACE	GCT	GROUNDED CURRENT TRANSFORMER	I/L	INTERLOCKING	LA LA			
	EM, EMER						1/0		LAC			
		EMERGENCY TRIP	101									MILLIMETER
	EMB EMBED		500		0.5			INTERFACE CONTROL MANUAL				
	EMCC						ICS		LAV			
				RELAY		CONCRETE	ICS-V		LB(S)			OVERLOAD, MOTOR OIL REEL
	EMH EMI		FDSO					VENTILATION	LC		MOD	
	EMP		FE						LCD		MODEM	
	ENC				GIGA	ONE BILLION					MOM	
	ENCL ENGR							INTRUSION DETECTION SYSTEM				
	ENT										MUS	
	EOB		FG		GLV				LE		MOW, MW	
				FARE GATE ARRAY				CURRENT INDICATION HIGH HIGH	LED			
	EOS						IIL					
	EOT	END OF TRACK							LG	LONG, LIP OF GUTTER	mir is	
	EPB		FHV	FIRE HOSE VALVE	GND	GROUND						
		EMPTY PULL BOX									MR	
	EPDM	ETHYLENE PROPYLENE DIENE	FIL				1111-0		LKR	LOCKER	MS	
	EPD			FIRE ISOLATION VALVE	GPS	GLOBAL POSITIONAL SYSTEM,	IML					
					CP		IN					
					OK				LLV	LONG LEG VERTICAL		
	EPR		FLEX	FLEXIBLE			INFO		LMA			
Deale Doubles Construints     Precision of Modulation     Precision of Modulation     Precision of Module     Precision o	LFIX								LMR			
	50	CABLE			GRSC	GALVANIZED RIGID STEEL CONDUIT				LOCATION		MAINTENANCE TELEPHONE
Exhwars flexibles     F0     PBER offic CABLE     GIS     GROUND TEST STATION     IPT     INTERNATION     IPT     INTERNATION     IPT     INTERNATION     IPT     <	EQUIP			FAN MOTOR TROUBLE	GSP	GALVANIZED STEEL PIPE	INT	INTERIOR OR INTAKE				MOUNTED
EDGE OF SHOULDER, END SYSTEM, C E ELECTRON, SHOULDER, END SYSTEM, ESCALTOR, ESCALTOR, ESC	ER	EXHAUST REGISTER							LP	LOW POINT		
C DEREBENCY SUPPLY CLOSET, ESCAPE FOR ALL TRANSMITS AND CONTROL TRANSMITS AND CONTROL TRANSMITS AND CONTROL CONTROL AND CONTREL AND CONTRO	ES		FOC	FACE OF CONCRETE	GUH	GAS UNIT HEATER	11-				MTS	MANUAL TRANSFER SWITCH
ESCALATOR       COM       FIBER OPTIC MUNCH       FIBER OPTIC MUNCH<	ESC				GV		IP-G	IRON PIPE GAS				
MT EASEMENT P EXECUTENT STATION PAREL P EXECUTENT STATION, T ELECTROL VIEWE FRAME P EXECUTENT THANNUNG (CAUNT) P EXECUTEN		ESCALATOR, ESCAPE	FOM		GYP				LRT	LIGHT RAIL TRANSIT		
C       DLEMANU, UNIT, PRESSURE BETTY BETTY EDENTITY	ESMT ESP			FACE OF STUDS							MUX	MULTIPLEX, MULTIPLEXER
T ESTMATE ENTROPORT TELEPHONE, C ENCROPY TELEPHONE, EMERGENCY TELEPHONE, C ENCROPY TELEPHONE, EMERGENCY TELEPHONE, EMERGENCY TELEPHONE, EMERGENCY TELEPHONE, EMERGENCY TELEPHONE, EMERGENCY TENE, EXPANSION TANK C ENCROPY EMERGENCY TENE, EXPANSION TANK M EMERGENCY TENE MOULE EMERGENCY TENE STATION N EMERGENCY TENE STATION M EXAMPLE STATISSING STATE M EMERGENCY TENE STATION M EMERGENCY TENE STATION M EXAMPLE STATISSING STATE M EMERGENCY TENES M EMERGEN	ESS					- H -		INTEGRATED SERVICES DIGITAL	LSR			
EMERGENCY TELEPHONE, EMERGENCY TELEPHONE, C       FPM       FEET PER MUNITE FPM       FEET PER MUNITE FEET PER MUNITE C       FPM       FEET PER MUNITE FPM       FEET PER MUNIT	EST	ESTIMATE			н	HEIGHT, HORIZONTAL HOT	ISI		LSW1A	ACTUATOR NO.1 BLADE LIMIT		
C       EMERGENCY TRP. 2004 NO.T. PERCENCE       FPRF       FREEPOOF       FREEPOOF       FREEPOOF       FREEPOOF       FREEPOOF       MW       MEGAWATT       MW       MW       MEGAWATT       MW	ET		FPM	FEET PER MINUTE		HUMIDSTAT	П		INCID	SWITCH - A		RELAY
M EMERGENCY TRIP MODULE P EMERGENCY TRIP ANDULE S EMERGENCY TRIP ANDULE S ELECTROLYSIS TEST STATION, EMERGENCY TRANSFER TRIP STATION W EDGE OF TRANSFER TRIP STATION W EDGE OF TRANSFER TRIP STATION H ELECTRICAL VALUT C END VERTICAL CURVE H EXAMPLESS AND RESIST POLYTHYLENE HOP HEAD H EAD H EXAMPLESS AND RESIST POLYTHYLENE H H H HONDOLLE N EMERGENCY TRANSFER TRIP STATION W EDGE OF TRANSFER TRIP STATION H ELECTRICAL VALUT C END VERTICAL CURVE H H H ELECTRICAL CURVE H H H HONDOLE N END WALL END WALL EN	TC			FIREPROOF		HOSE BIBCOCK	-	TRACK	LWSTB			
P       EMERGENCY TRIP PANEL       FPE       FAN RUNNING (EXHAUST)       HD       HEAD         S       ELECTROL'SSITEST STATION, EMERGENCY TRIP STATION       FPE       FAN RUNNING (EXHAUST)       HD       HO       HEAD         Y       EDGE OF TRAVELED WAY       FRAP       FIBER REINFORCE ON TRIP STATION       HD       HORZONTAL DRECTIONAL DRILLING       HD       HORZONTAL DRECTIONAL DRILLING       HD       HORZONTAL DRECTIONAL DRILLING         W       EDGE OF TRAVELED WAY       FRAP       FIBER REINFORCE ON TRUE STATION, FRAP       FRAP       FIBER REINFORCE ON TRUE UNIN GRILLE CONTROL UNIT       HD       HORZONTAL DRECTIONAL DRILLING       HD       HORZONTAL	TM	EMERGENCY TRIP MODULE					ITL INS			LEFT, LIGHT, LIGHT REEL		
S       ELECTROLTSIS TEST STATION, TS       FRG       FLOOR RETURN GRILE       HDD       HORZONTAL DIRECTIONAL DRILLING HOPPER DRANN         TS       EMERGENCY TRP STATION, TS       FRG       FRGD       FRAME GROUND       HDD       HORZONTAL DIRECTIONAL DRILLING HOPPER DRANN       - J -         W       EDGE OF TRAVELED WAY       FRGC       FRR.       FRR.       FRG.       FRR.       FRG.       FRR.       FRG.       FRR.       HDD       HOPPER DRANN       HDPE       HIDD       HOPPER DRANN       HDPE       HIDD       HOPPER DRANN       HDPE       HDP	TP		FRE		HD	HEAD				LINE TERMINATING EQUIPMENT		Santa Clara Valley Transportation Authority
TS EMERGENCY TRANSFER TRIP STATION W EDGE OF TRAVELED WAY H ELECTRIC LIVIT HEATER ELECTRIC LIVIT HEATER ELECTRIC LIVIT HEATER ELECTRIC LIVIT HEATER FS FAR SIDO REMOTE CONTROL UNIT LECTRICAL CURVE FS FAR SIDO REMOTE CONTROL UNIT LECTRICAL CURVE FS FAR SIDO REMOTE CONTROL UNIT H H H HANDHOLE TO STREEPER CONTROL UNIT LECTRICAL CURVE FS FAR SIDO REMOTE CONTROL UNIT H H H HANDHOLE TO STREEPER CONTROL UNIT LECTRICAL CURVE FS FAR SIDO REMOTE CONTROL UNIT H H H HANDHOLE TO STREEPER CONTROL UNIT H H H HANDHOLE TO STREEPER CONTROL UNIT H H H HANDHOLE	ETS		FRG	FLOOR RETURN GRILLE								NO EXCEPTION TAKEN MAKE CORRECTIONS NOTED
W       EDGE OF TRACELED WAY HI       FRRC ELECTRICAL VAULT C       FRRC END VERTICAL CURVE END VERTICAL CURVE END VERTICAL CURVE END WALL       FRRC END VERTICAL CURVE END VERTICAL CURVE END VERTICAL CURVE END WALL       JAN, JC JAL JOST COMM. DUCT STRUCTURE JUNCTION       JAN, JC JAL JOST COMM. DUCT STRUCTURE JUNCTION       JAN, JC JAL JOST COMM. DUCT STRUCTURE JUNCTION       LARGE WOODY DEBRS UND WORKING POINT LEAVING WATER TEMPERATURE LOW WATER TEMPERATURE LOW ENTITIES       INC WORKING POINT LEAVING WATER TEMPERATURE LOW ENTITIES       INC WOR WATER TEMPERATURE LOW ENTITIES       INC WO	ETTS	EMERGENCY TRANSFER TRIP STATION						— J —	LVL	LEVEL		AMEND AND RESUBAT
C       ELECTRICAL VAULT       FRS       FAN RUNNING (SUPPLY) FAR SUBCE, FRE SERVICE, FULL SIZE, FLOOR SINK, FLOW SWITCH, FLOOR SINK, FLOW SWITCH, END WALL       HARWARE END WALL       LOSS OF POWER ALARM JUNCTION BUC       LOSS OF POWER ALARM JUNCTION BUC       LUX       LEAVING WATER TEMPERATURE LOWER YARD LEAD         V       END WALL       FS       FAN RUNNING (SUPPLY) FINISHED WALL       HIM       HARWARE HIGH FREQUENCY HANDHOLE       JAL JR, JBOX JUNCTION BUC       LOSS OF POWER ALARM JUNCTION BUC       LIV       LEAVING WATER TEMPERATURE LOWER YARD LEAD         V       FINISHED WALL       FS       FAR RUNNING (SUPPLY) FINISHED WALL       HIM       HARWARE HIGH FREQUENCY HANDHOLE       JAL JR, JBOX JUNCTION       LOSS OF POWER ALARM JUNCTION       LIV       LEAVING WATER TEMPERATURE LOWER YARD LEAD         V       FINISHED WALL       FS       FAR RUNNING (SUPPLY) FINISHED WALL       HIM       HARWARE HIGH FREQUENCY HANDHOLE       JAL JC       LOSS OF POWER ALARM JUNCTION       LIV       LEAVING WATER TEMPERATURE LOWER YARD LEAD         V       FINISHED WALL       JSTREEPER HIGH FREQUENCY K. MULLER	ETW		FRRC		HDR	HEADER	JAN, JC	JANITOR (CLOSET)				the contract and does not relieve the contractor
C       END VERTICAL CURVE EACH WAY, EMERGENCY EYE WASH       PS       FAR SIDE, FIRE SERVICE, FULL SIZE, FINISHED SURFACE       MEXA down, FLANDONAL HH       JB, JBOX JC       JUNCTION BOX JC       JUNCTION BOX JOINT COMM. DUCT STRUCTURE       JUNCTION BOX JC       JUNCTION BOX JUNCTION         M       END WALL       0	EV						JAL	LOSS OF POWER ALARM			1	
EACH WAY, EMERGENCY EYE WASH       FINISHED SURFACE       HH       HANDHOLE       JC       JOINT COMM. DUCT SINCTORE         END WALL       FINISHED SURFACE       HH       HANDHOLE       JC       JOINT COMM. DUCT SINCTORE       JOINT COMM. DUCT SINCTORE         Image: State of the state of	EVC	END VERTICAL CURVE	15									Configer No.: DBD 0629
Skanska         J. STREEPER       J. STREEPER         DRWN BY       J. STREEPER         DRWN BY       Skanska         LINE, TRACK, STATIONS, AND SYSTEMS       CAOD Flemme         Skanska       Skanska         J. J. STREEPER       Difference         DRWN BY       Difference       Skanska         Data       Difference       Skanska         J. Jahr       READY FOR CONSTRUCTION       Difference       Stanska         20130117       READY FOR CONSTRUCTION       Difference       Try-Lin INTERNATIONAL       Try-Lin INTERNATIONAL         Z0121019       READY FOR CONSTRUCTION       Difference       Try-Lin INTERNATIONAL       Try-Lin INTERNATIONAL	EWL		1									100000002/26/13
Dewne br     Dewne br     Dewne br       0     K. MULLER       K. MULLER       CHECKED BY       B. WAGNER       20130117       READY FOR CONSTRUCTION       N CHECKED BY       B. WAGNER       VICTOR       State construction       N CHECKED BY       B. WAGNER       D. STREEPER       VICTOR       State construction       N CHECKED BY       B. WAGNER       D. STREEPER       VICTOR       State construction       N CHECKED BY       State construction       State construction       State construction			-	DESIGNED BY		Skanska	1		-		0100	CADD FLENAME
20130117 READY FOR CONSTRUCTION B. WAGNER 20121019 READY FOR CONSTRUCTION J. STREEPER 20121019 READY FOR CONSTRUCTION J. STREEPER 3 CHARGE TO CONTRACT NO. C700 R Attendemails and the second of t				DRAWN BY		Shimmick 1436 California Circle				LINE, TRACK, STAT	IONS, AND	SYSIEMS C700-S-DL-X201.dwg
20130117 READY FOR CONSTRUCTION B. WAGNER 20121019 READY FOR CONSTRUCTION J. STREEPER 20121019 READY FOR CONSTRUCTION J. STREEPER 3 CHARGE TO CONTRACT NO. C700 R Attendemails and the second of t				K. MULLER //5/9" 9\2								
20121019 READY FOR CONSTRUCTION J. STREEPER TY-LIN INTERNATIONAL				B. WAGNER					LICON	GENERAL A		CONTRACT NO REV.
ZUIZIONS     READY FOR CONSTRUCTION     U. STREET NO.       / DATE     BY SUB APP     DESCRIPTION       20130117     SUBMITTED   SUBMITTED UP ANT SILICON VALLEY BERRYESSA EXTENSION	1 20130117			IN CHARGE		GD Lockwood, Andrews T-Y-	LIN INTERNATIONA		LICON V	SHEET	2 OF 4	C700
UNE DE DEVERTION 20130117 SUBMITED LA PPROVED APPROVED APPROVED APPROVED DE X201 0				DATE			hanth		EV BEDEVECCA	EXTENSION		AREA CODE SHEET NO. PAGE
	REV DATE B	DESCRIPTION		20130117 SUBMIT	LD	APPROVED APPROVED		BART SILICON VALUE	ET BERRIESSA	EATENSION		DL   X201 00

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		1							
	- N -	OSP	OUTSIDE PLANT	PR	PAIR(S), PRESSURE		HUMIDITY	SJW TEST	SAN JOSE
1		OSYT	NEWHALL YARD CONTROL TOWER	PRC	POINT OF REVERSE CURVATURE	RIDS	RAILROAD INTRUSION DETECTION SYSTEM	SL	STREET LIG
N	NORTH, NEUTRAL	OTDR	OPTICAL TIME DOMAIN REFLECTOMETER	PREP	PREPARATION	RIL	RED INDICATION LIGHT	SLC	LEFT CIRC
(N)	NEW	OTE	OVER TRACK EXHAUST	PRI	PRIMARY	RIM	TOP OF XMH	SLPA	SIGNAGE/L
		OTM	OTHER TRACK MATERIAL	PRKG	PARKING	RIO	REMOTE INPUT/OUTPUT	JURA	SPEAKERS
N/A	NOT APPLICABLE	OTN	OPTICAL TRANSPORT NETWORK	PROP	PROPERTY, PROPOSED	RJ	AUDIO FREQ. TRACK INTERMEDIATE	SLR	SEALER
N/R	NON-RELATED	OV	OUTLET VELOCITY, OUTSIDE VELOCITY	PROT	PROTECTOR	no	TRACK RELAY	SLV	SHORT LEG
N12	NEGATIVE 12V DC	OVC	OVERCROSSING	PRS	PAIRS	RL			
N28	NEGATIVE 28V DC	000	OVERGROSSING				REFRIGERANT LIQUID	S'LY	SOUTHERLY
NAD27	NORTH AMERICAN DATUM OF 1927			PRV	PRESSURE REDUCING VALVE	RLA	RATED LOAD AMPS	SM	SINGLE MO
	(HORIZONTAL)			PRVAL	PRESSURE RELIEF VALVE	RLY	RELAY		SOLID MAN
NAD83	NORTH AMERICAN DATUM OF 1983		- P -	PRVC	POINT ON REVERSE VERTICAL CURVE	RM	ROOM		SWITCH M/
	(HORIZONTAL)			ps	PICO SECOND	RN	REFERENCE NORTH	SMF	SINGLE MO
NAVD88	NORTH AMERICAN VERTICAL DATUM	P	POWER LINE, PAINT, NON-VITAL REPEATER	PS	POINT OF SWITCH, POSITION SWITCH,	RNS	RUNNING RAIL NEGATIVE RETURN SWITCH	SMH	SANITARY I
MAYDOO	OF 1988	P LAM	PLASTIC LAMINATE		POWER SUPPLY, PUMP STATION,	RO	ROUGH OPENING	SND	SANITARY I
NB		P&S	POWER AND SUPPORT		PRE-STRESSED	ROW	RIGHT-OF-WAY	SNF	SWING NOS
	NEGATIVE BUS, NORTH BOUND	P&W	POWER AND WAY	PS/L	PROTECTOR SHELF/L BLOCK	RP	REFERENCE POINT		POINT FRO
NC	NOISE CRITERIA, NORMALLY CLOSED	P.B., PB	PULLBOX OR PUSH BUTTON	PSE	PUBLIC SERVICE EASEMENT	RPM	REVOLUTIONS PER MINUTE	SNR	SANITARY I
NE	NORTHEAST	P/L	PROPERTY LINE	PSI	POUNDS PER SQUARE INCH	RPTR	REPEATER	SNT	STATION N
NEC	NATIONAL ELECTRIC CODE			PSIG	POUNDS PER SQUARE INCH GAUGE	RR	RAILROAD	SOE	SUPPORT
NEG	NEGATIVE	P/0	PART OF	PSTN	PUBLIC SWITCHED TELEPHONE NETWORK	RS	REFRIGERANT SUCTION, RIPARIAN	SOL	
NEG RET	NEGATIVE RETURN	PA	PUBLIC ADDRESS, PLANTING AREA	PSUE	PUBLIC SERVICE UTILITY EASEMENT	115	SETBACK		SOLENOID
NE'LY	NORTHEASTERLY	PABX, PBX	PRIVATE AUTOMATIC BRANCH EXCHANGE			RSC	RIGID STEEL CONDUIT	SOM	SOMASTIC
NGS	NATIONAL GEODETIC SURVEY	PAE	PEDESTRIAN ACCESS EASEMENT	PT	POINT, POINT OF TANGENT, POINT OF	RSP	ROCK SLOPE PROTECTION	SONET	SYNCHRON
NIC	NOT IN CONTRACT	PART	PARTNERS		CHANGE FROM CIRCULAR CURVE TO	RSR	RESTRICTED SPEED RELAY	SORS	SEQUENTIA
NIT	NITROGEN GAS LINE	PATS	PROPERTY ACQUISITION TRACKING		TANGENT, POTENTIAL TRANSFORMER,				SYSTEM
NK	NECK		SYSTEM		PORCELAIN TILE, PETROLEUM	RST	RESILIENT TILE	SOV	SHUT-OFF
N'LY	NORTHERLY	PB	PULL BOX, PUSH BUTTON	PTD/R	PAPER TOWEL DISPENSER &	RT	RIGHT, ROUTE, RANDOM TWIST	SP	STEEL PIP
	NANOMETER	PC	PERSONAL COMPUTER, PRECAST,		RECEPTACLE	RTAC	ROOF TOP AIR CONDITIONING UNIT		PRESSURE
nm NMC	NON-METALLIC CONDUIT		PRECAST CONCRETE, POINT OF	PTEAC	PERMIT TO ENTER AND CONSTRUCT	RTD	RESISTANCE TEMPERATURE DETECTOR	SP1, SP2	BART SPU
			CURVATURE, POINT OF CHANGE FROM	PTM	PLATFORM TRIP MODULE	RTE	ROUTE	SPA	SPACES, S
NMS	NETWORK MANAGEMENT SYSTEM		TANGENT TO CIRCULAR CURVE	PTS	PLATFORM TRIP STATION	RTU	REMOTE TERMINAL UNIT	SPD	SANITARY
NO	NORMALLY OPEN, NUMBER	PCC	PORTLAND CEMENT CONCRETE.	PTT	PUSH TO TALK	RV	ROOF VENTILATOR	SPDT	SINGLE PO
NO(S)	NUMBERS		POINT OF COMPOUND CURVATURE	PTZ	PAN, TILT AND ZOOM	RW	RECYCLED WATER, RETAINING WALL	SPEC	SPECIFICAT
NOM	NOMINAL	PCF	POINT OF CURVATUREM, POUND PER	PU	POWER UNIT	RWCR	SWITCH REVERSE	SPECS	SPECIFICAT
NON-ESS	NON-ESSENTIAL	r or	CUBIC FOOT	PUE	PUBLIC UTILITY EASEMENT		CORRESPONDENCE RELAY	SPK	SPEAKER
NOR	NORMAL	PCM	PARKING CONTROL MACHINE, PULSE	PVC		RWE	ROADWAY EASEMENT	SPO	POINT OF
NOTC	NORMALLY OPEN TIME CLOSED	PUM		PVG	POLYVINYL CHLORIDE (CONDUIT) OR	RWL	RAIN WATER LEADER	SPRK	
NS	NEAR SIDE	000	CODE MODULATION	-	(PIPE), POINT OF VERTICAL CURVE	RWLOL	RETAINING WALL LAYOUT LINE	SPRK COMM	SPRINKLER
NTS	NOT TO SCALE	PCR	PORTAL COMMUNICATIONS ROOM	PVI	POST VALVE INDICATOR	RWPR	REVERSE SWITCH REPEATER RELAY	SPRR COMM	
NV	NON-VITAL	PCTL	PRECAST TUNNEL LINING	PVMT	PAVEMENT				COMMUNIC
NVI	NON-VITAL INPUT	PCV	PRESSURE CONTROL VALVE	PWR	POWER	RX, RCV (R)	RECEIVE (R)	SPSC	SWITCH PO
NVO	NON-VITAL OUTPUT	PCVC	POINT OF COMPOUND VERTICAL						SWITCH MA
NVR	NETWORK VIDEO RECORDER		CURVE		- 0 -		- S -		CABINET
NW		PD	PRESSURE DROP, PUMP DISCHARAGE		-			SPST	SINGLE PO
NWCR	NORTHWEST	PDN	PLANTER DRAIN	OR	SEQUENTIAL DETECTION RELAY	S	SOUTH, SLOPE	SPT	SPRINT CO
NWGR	SWITCH NORMAL CORRESPONDENCE	PDU	PROTOCOL DATA UNIT	QS	QUEUING SPACE	SO.	SOUTH	SPTC	SOLDIER P
a monte a r	RELAY	PE	POLYETHYLENE PIPE, PNEUMATIC-	QT	QUARRY TILE	S.I.C.	SUPPORT IN PLACE	SPWG	STATIC PR
NW'LY	NORTHWESTERLY		ELECTRIC	OTY	QUANTITY	S1	SVRT MAIN LINE TRACK (SB)	SQ	SQUARE
NWPR	NORMAL SWITCH REPEATER RELAY	PED	PEDESTRIAN	QIT	COMMITTE	52	SVRT MAIN LINE TRACK (NB)	SQ.FT.	SQUARE F
NX	AC VOLTAGE	PERF	PERFORATED			53	SVRT POCKET OR STORAGE TRACK	SQYD,SY	SQUARE Y
NX12	12VAC	PERM	PERMEABLE			Sa	SPECTRAL ACCELERATION	SR	SUPPLY R
NXTGEN	ARCHITECTURE OF BART'S NEXT	PERM MTL	PERMEABLE MATERIAL		- R -				
								CDO	
1			PERMEMOLE MATERIAL			SA	SUPPLY AIR, SURGE ARRESTER	SRC	
	GENERATION EQUIPMENT	PET, PETRO,	PETROLEUM LINE	R	RADIUS, RESISTOR, RISER, RING, ROUTER	SAB	STATION AGENTS BOOTH	SRC SS	SELECTOR
	GENERATION EQUIPMENT	PET, PETRO, PT	PETROLEUM LINE	R (R)	RADIUS, RESISTOR, RISER, RING, ROUTER	SAB	STATION AGENTS BOOTH SANITARY		SELECTOR
		PET, PETRO, PT PF	PETROLEUM LINE POINT OF FROG	R (R) R NO.	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE	SAB SAN SAR	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR		SELECTOR SANITARY POINT OF
	GENERATION EQUIPMENT	PET, PETRO, PT PF PG	PETROLEUM LINE POINT OF FROG PROFILE GRADE	R NO.	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER	SAB SAN SAR SAT	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION	SS	SELECTOR SANITARY POINT OF TO ANOTH
0	GENERATION EQUIPMENT - O OPTICAL	PET, PETRO, PT PF PG PGA	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION	R NO. R/C	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE	SAB SAN SAR SAT SB	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND	SS	SELECTOR SANITARY POINT OF TO ANOTH SANITARY
0	GENERATION EQUIPMENT	PET, PETRO, PT PF PG PGA PGL	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE	Ř NO. R/C R/R	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL	SAB SAN SAR SAT	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION	SS	SELECTOR SANITARY POINT OF TO ANOTH SANITARY
0/	GENERATION EQUIPMENT - O - OPTICAL OVER	PET, PETRO, PT PF PG PGA	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION	Ř NO. R/C R/R R/W	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY	SAB SAN SAR SAT SB SBGR	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL	SS	SELECTOR SANITARY POINT OF TO ANOTH SANITARY SUBSURFA
0/ 0/L	GENERATION EQUIPMENT - O - OPTICAL OVER OVERLOAD	PET, PETRO, PT PF PG PGA PGL	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE	Ř NO. R/C R/R R/W R1	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF HWAY RING 1	SAB SAN SAR SAT SB	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT	SS SSC0 SSE	SELECTOR SANITARY POINT OF TO ANOTH SANITARY SUBSURFA SEWER EA
0/ 0/L 0/C	GENERATION EQUIPMENT - O OPTICAL OVER OVERLOAD OVERCURRENT	PET, PETRO, PT PF PG PGA PGL PGT	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL	Ř NO. R/C R/R R/W R1 RA	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR	SAB SAN SAR SAT SB SBGR SBO	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE	SS SSCO SSE SSK	SELECTOR SANITARY POINT OF TO ANOTH SANITARY SUBSURFA SEWER EA SERVICE S
0/ 0/L 0/C 0A	GENERATION EQUIPMENT - O OPTICAL OVER OVERLOAD OVERCURRENT OVERALL, OUTSIDE AIR	PET, PETRO, PT PF PG PGA PGL PGT PH	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL PHASE, POTHOLE PHASE	Ř NO. R/C R/R R/W R1 RA RAA	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR RESCUE ASSISTANCE AREA	SAB SAN SAR SAT SB SBGR SBO SC	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE	SS SSCO SSE SSK SSMH, SMH	SELECTOR SANITARY POINT OF TO ANOTH SANITARY SUBSURFA SEWER EA SERVICE S SANITARY
O/L O/C OA OAD	GENERATION EQUIPMENT - O OPTICAL OVER OVERLOAD OVERCURRENT OVERCURRENT OVERCUR, OUTSIDE AIR OUTSIDE AIR DAMPER	PET, PETRO, PT PF PG PGA PGL PGT PH	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL PHASE, POTHOLE PHASE POINT OF INFLECTION, POINT OF	Ř NO. R/C R/R R/W R1 RA RAA RAA	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR RESCUE ASSISTANCE AREA RIGHT ACTIVE CHANNEL	SAB SAN SAR SAT SB SBGR SBO SC SCAC	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE SELF CONTAINED AIR CONDITIONER	SS SSCO SSE SSK SSMH, SMH SSR	SELECTOR SANITARY POINT OF TO ANOTH SANITARY SUBSURFA SERVICE S SANITARY SOUTH ST
O/L O/C OA OAD OADM	GENERATION EQUIPMENT - O - OPTICAL OVER OVERLOAD OVERCURRENT OVERALL, OUTSIDE AIR OUTSIDE AIR DAMPER OPTICAL ADD/DROP MULTIPLEXER	PET, PETRO, PT PG PGA PGL PGT PH PH, Ø PI	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL PHASE, POTHOLE PHASE POINT OF INFLECTION, POINT OF INTERSECTION	Ř NO. R/C R/R R/W R1 RA RAA	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR RESCUE ASSISTANCE AREA	SAB SAN SAR SAT SB SBGR SBO SC	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE SELF CONTAINED AIR CONDITIONER SUPERVISORY CONTROL AND DATA	SS SSCO SSE SSK SSMH, SMH SSR SSS	SELECTOR SANITARY POINT OF TO ANOTH SANITARY SUBSURFA SEWER EA SERVICE S SANITARY SOUTH ST SYSTEM S
O/L O/C OA OAD	GENERATION EQUIPMENT - 0 - OPTICAL OVER OVERLOAD OVERCURRENT OVERALL, OUTSIDE AIR OUTSIDE AIR DAMPER OPTICAL ADD/DROP MULTIPLEXER OPERATIONS ALARMS MAINTENANCE	PET, PETRO, PT PG PGA PGL PGT PH PH, Ø PI PIDS	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL PHASE, POTHOLE PHASE POINT OF INFLECTION, POINT OF INTERSECTION PORTAL INTRUSION DETECTION SYSTEM	Ř NO. R/C R/R R/W R1 RA RAA RAA	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR RESCUE ASSISTANCE AREA RIGHT ACTIVE CHANNEL RETURN AIR DAMPER, RADIUS	SAB SAN SAR SAT SB SBGR SBO SC SC SCAC SCAC	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE SELF CONTAINED AIR CONDITIONER SUPERVISORY CONTROL AND DATA ACQUISITION	SS SSCO SSE SSK SSMH, SMH SSR SSS SST	SELECTOR SANITARY POINT OF TO ANOTH SANITARY SUBSURFA SERVICE S SANITARY SOUTH ST SYSTEM S SOAP STO
O/ O/L O/C OA OAD OADM OAMP	GENERATION EQUIPMENT - 0 - OPTICAL OVER OVERLOAD OVERCURRENT OVERALL, OUTSIDE AIR OUTSIDE AIR DAMPER OPTICAL ADD/DROP MULTIPLEXER OPERATIONS ALARMS MAINTENANCE PROVISIONING	PET, PETRO, PT PF PG PGA PGL PGT PH PH, Ø PI PIDS PIN	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL PHASE, POTHOLE PHASE POINT OF INFLECTION, POINT OF INTERSECTION PORTAL INTRUSION DETECTION SYSTEM PROPERTY IDENTIFICATION NUMBER	Ř NO. R/C R/R R/W R1 RA RAA RAA RAC RAD	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR RESCUE ASSISTANCE AREA RIGHT ACTIVE CHANNEL RETURN AIR DAMPER, RADIUS REMOTE ATO TERMINAL	SAB SAN SAR SAT SB SBGR SBO SC SCAC	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE SELF CONTAINED AIR CONDITIONER SUPERVISORY CONTROL AND DATA ACQUISITION SEAT COVER DISPENSER, SMOKE	SS SSCO SSE SSK SSMH, SMH SSR SSS	SELECTOR SANITARY POINT OF TO ANOTH SANITARY SUBSURFA SERVICE S SANITARY SOUTH ST SYSTEM S SOAP STO STREET, S
O/L O/C OA OAD OADM	GENERATION EQUIPMENT - 0 - OPTICAL OVER OVERLOAD OVERCURRENT OVERCURRENT OVERCURRENT OVERCURRENT OVERCURRENT OVERCURRENT OPTICAL ADD/DROP MULTIPLEXER OPTICAL ADD/DROP MULTIPLEXER	PET, PETRO, PT PG PGA PGL PGT PH PH, PH PI PIDS PIN PIP	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL PHASE, POTHOLE PHASE POINT OF INFLECTION, POINT OF INTERSECTION PORTAL INTRUSION DETECTION SYSTEM PROPERTY IDENTIFICATION NUMBER POURED-IN-PLACE	Ř NO. R/C R/R R1 RA RAA RAA RAC RAD RAT RAB	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR RESCUE ASSISTANCE AREA RIGHT ACTIVE CHANNEL RETURN AIR DAMPER, RADIUS REMOTE ATO TERMINAL RESILIENT RUBBER BASE	SAB SAN SAR SAT SB SBGR SBO SC SCAC SCAC SCADA SCD	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE SELF CONTAINED AIR CONDITIONER SUPERVISORY CONTROL AND DATA ACQUISITION SEAT COVER DISPENSER, SMOKE CONTROL DAMPER	SS SSCO SSE SSK SSMH, SMH SSR SSS SST ST ST	SELECTOR SANITARY POINT OF TO ANOTH SUBSURFA SEWER EA SERVICE S SANITARY SOUTH ST SYSTEM S SOAP STO STREET, S FROM SPII
O/ O/L O/C OA OAD OADM OAMP OC	GENERATION EQUIPMENT - 0 - OPTICAL OVER OVERCOAD OVERCURRENT OVE	PET, PETRO, PT PG PGA PGL PGT PH PH, Ø PI PIDS PIN PIDS PIN PITO	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL PHASE, POTHOLE PHASE POINT OF INFLECTION, POINT OF INTERSECTION PORTAL INTRUSION DETECTION SYSTEM PROPERTY IDENTIFICATION NUMBER POURED—IN—PLACE POINT OF INTERSECTION OF TURNOUT	Ř NO. R/C R/R R1 RA RAA RAA RAD RAT RBC	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR RESCUE ASSISTANCE AREA RIGHT ACTIVE CHANNEL RETURN AIR DAMPER, RADIUS REMOTE ATO TERMINAL RESILIENT RUBBER BASE REINFORCED BOX CULVERT	SAB SAN SAR SAT SB SBGR SBO SC SCAC SCADA SCD SCS	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE SELF CONTAINED AIR CONDITIONER SUPERVISORY CONTROL AND DATA ACQUISITION SEAT COVER DISPENSER, SMOKE CONTROL DAMPER SMOKE CONTROL SENSOR	SS SSCO SSE SSK SSMH, SMH SSR SSS SST ST STA	SELECTOR SANITARY POINT OF TO ANOTH SANITARY SUBSURFA SEWER EA SERVICE S SANITARY SOUTH ST SYSTEM S SOAP STO STREET, S FROM SPII ALIGNMENT
O/ O/L O/C OAD OADM OADM OAMP OC	GENERATION EQUIPMENT - 0 - OPTICAL OVER OVERLOAD OVERCURRENT OVERALL, OUTSIDE AIR OUTSIDE AIR DAMPER OPTICAL ADD/DROP MULTIPLEXER OPERATIONS ALARMS MAINTENANCE PROVISIONING ON CENTER, OVERCROSSING, OPTICAL CARRIER 51.84 Mb/s OPTICAL CARRIER LEVEL 1	PET, PETRO, PT PG PGA PGL PGT PH PH PH, Ø PI PIDS PIN PIP PITO PIV	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL PHASE, POTHOLE PHASE POINT OF INFLECTION, POINT OF INTERSECTION PORTAL INTRUSION DETECTION SYSTEM PROPERTY IDENTIFICATION NUMBER POURED-IN-PLACE POINT OF INTERSECTION OF TURNOUT POST INDICATOR VALVE	Ř NO. R/C R/R R1 RA RAC RAD RAD RAT RB RBC RBM	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR RESCUE ASSISTANCE AREA RIGHT ACTIVE CHANNEL RETURN AIR DAMPER, RADIUS REMOTE ATO TERMINAL RESILIENT RUBBER BASE REINFORCED BOX CULVERT RAILBOUND MANGANESE FROG	SAB SAN SAR SAT SB SBGR SBO SC SCAC SCADA SCD SCS SCH	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE SELF CONTAINED AIR CONDITIONER SUPERVISORY CONTROL AND DATA ACQUISITION SEAT COVER DISPENSER, SMOKE CONTROL DAMPER SMOKE CONTROL SENSOR SCHEDULE	SS SSCO SSE SSK SSMH, SMH SSR SSS SST ST ST STA STBY	SELECTOR SANITARY POINT OF TO ANOTH SANITARY SUBSURFA SEWER EA SERVICE S SANITARY SOUTH ST SYSTEM S SOAP STO STREET, S FROM SPII ALIGNMENT STANDBY
0/ 0/L 0/C 0A 0AD 0ADM 0ADM 0AMP 0C 0C1 0C192	GENERATION EQUIPMENT - 0 - OPTICAL OVER OVERLOAD OVERCURRENT OVERALL, OUTSIDE AIR OUTSIDE AIR DAMPER OPTICAL ADD/DROP MULTIPLEXER OPERATIONS ALARMS MAINTENANCE PROVISIONING ON CENTER, OVERCROSSING, OPTICAL CARRIER 51.84 Mb/s OPTICAL CARRIER LEVEL 1 9.92 Gb/s OPTICAL CARRIER LEVEL 1 9.92 Gb/s OPTICAL CARRIER LEVEL 192	PET, PETRO, PT PG PGA PGL PGT PH PH, Ø PI PIDS PIN PIDS PIN PITO	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL PHASE, POTHOLE PHASE POINT OF INFLECTION, POINT OF INTERSECTION PORTAL INTRUSION DETECTION SYSTEM PROPERTY IDENTIFICATION NUMBER POURED—IN—PLACE POINT OF INTERSECTION OF TURNOUT POST INDICATOR VALVE POINT OF INTERSECTION OF TWO	Ř NO. R/C R/R R1 RA RAA RAA RAD RAT RBC	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR RESCUE ASSISTANCE AREA RIGHT ACTIVE CHANNEL RETURN AIR DAMPER, RADIUS REMOTE ATO TERMINAL RESILIENT RUBBER BASE REINFORCED DOX CULVERT RAILBOUND MANGANESE FROG REINFORCED CONCRETE, REMOTE	SAB SAN SAR SAT SB SBGR SBO SC SCAC SCAC SCADA SCD SCS SCH SCHP	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE SELF CONTAINED AIR CONDITIONER SUPERVISORY CONTROL AND DATA ACQUISITION SEAT COVER DISPENSER, SMOKE CONTROL DAMPER SMOKE CONTROL SENSOR SCHEDULE SELF CONTAINED HEAT PUMP	SS SSCO SSE SSK, SSM, SMH SSR SST SST ST STA STBY STC	SELECTOR SANITARY POINT OF TO ANOTH SUBSURFA SEWER EA SERVICE S SANITARY SOUTH ST SYSTEM S SOAP STO STREET, S FROM SPII ALIGNMENT STANDBY SOUND TR
O/ O/L O/C OAD OADM OADM OAMP OC	GENERATION EQUIPMENT - 0 - OPTICAL OVER OVERLOAD OVERCURRENT OVERALL, OUTSIDE AIR OUTSIDE AIR DAMPER OPTICAL ADD/DROP MULTIPLEXER OPERATIONS ALARMS MAINTENANCE PROVISIONING ON CENTER, OVERCROSSING, OPTICAL CARRIER 51.84 Mb/s OPTICAL CARRIER LEVEL 1	PET, PETRO, PT PG PGA PGL PGT PH PH PH PI PIDS PIN PIP PIP PITO PIV PIVC	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL PHASE, POTHOLE PHASE POINT OF INFLECTION, POINT OF INTERSECTION PORTAL INTRUSION DETECTION SYSTEM PROPERTY IDENTIFICATION NUMBER POURED—IN—PLACE POINT OF INTERSECTION OF TURNOUT POST INDICATOR VALVE POINT OF INTERSECTION OF TWO PROFILE TANGENTS	Ř NO. R/C R/R R1 RA RAA RAA RAD RAD RAD RAD RAD RBC RBM RC	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR RESCUE ASSISTANCE AREA RIGHT ACTIVE CHANNEL RETURN AIR DAMPER, RADIUS REMOTE ATO TERMINAL RESULENT RUBBER BASE REINFORCED BOX CULVERT RAILBOUND MANGANESE FROG REINFORCED CONCRETE, REMOTE CONTROL, RIGHT CABLE	SAB SAN SAR SAT SB SBGR SBO SC SCAC SCAC SCAC SCADA SCD SCS SCH SCHP SCN	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE SELF CONTAINED AIR CONDITIONER SUPERVISORY CONTROL AND DATA ACQUISITION SEAT COVER DISPENSER, SMOKE CONTROL DAMPER SMOKE CONTROL SENSOR SCHEDULE SELF CONTAINED HEAT PUMP SYSTEMWIDE CABLE NETWORK	SS SSCO SSE SSK SSMH, SMH SSR SSS SST ST STA STA STBY STC STD	SELECTOR SANITARY POINT OF TO ANOTH SUBSURFA SUBSURFA SUBSURFA SERVICE S SANITARY SOUTH ST SYSTEM S SOAP STO STREET, S FROM SPII ALIGNMENT STANDBY SOUND TR STANDARD
O/ O/L O/C OAD OADM OADM OAMP OC OC1 OC1 OC192	GENERATION EQUIPMENT - 0 - OPTICAL OVER OVER OVERLOAD OVERCURRENT OVERCURREN	PET, PETRO, PT PG PGA PGL PGT PH PH PH, Ø PI PIDS PIN PIP PITO PIV	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL PHASE, POTHOLE PHASE POINT OF INFLECTION, POINT OF INTERSECTION PORTAL INTRUSION DETECTION SYSTEM PROPERTY IDENTIFICATION NUMBER POURED—IN—PLACE POINT OF INTERSECTION OF TURNOUT POST INDICATOR VALVE POINT OF INTERSECTION OF TWO PROFILE TANGENTS PIPE LINE, PLATE, PROPERTY LINE,	Ř NO. R/C R/R R1 RA RAA RAD RAD RAD RAD RAT RBC RBM RC RCB	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR RESCUE ASSISTANCE AREA RIGHT ACTIVE CHANNEL RETURN AIR DAMPER, RADIUS REMOTE ATO TERMINAL RESILIENT RUBBER BASE REINFORCED BOX CULVERT RAILBOUND MANGANESE FROG REINFORCED CONCRETE, REMOTE CONTROL, RIGHT CABLE REINFORCED CONCRETE, BOX	SAB SAN SAR SAT SB SBGR SBO SC SCAC SCAC SCADA SCD SCS SCH SCHP SCN SCTB	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE SELF CONTAINED AIR CONDITIONER SUPERVISORY CONTROL AND DATA ACQUISITION SEAT COVER DISPENSER, SMOKE CONTROL DAMPER SMOKE CONTROL SENSOR SCHEDULE SELF CONTAINED HEAT PUMP SYSTEMWIDE CABLE NETWORK SHORT CIRCUITING TERMINATION BLOCK	SS SSCO SSE SSK SSMH, SMH SSR SSS SST ST ST STA STBY STC STE STE	SELECTOR SANITARY POINT OF TO ANOTH SANITARY SUBSURFA SEWER EA SERVICE S SANITARY SOUTH STI SYSTEM SI SOAP STO STREET, S FROM SPII ALIGNMENT STANDBY SOUND TR STANDARD SPECAL T
0/ 0/L 0/C 0A 0AD 0ADM 0AMP 0C 0C1 0C192 0C1-0C192	GENERATION EQUIPMENT - 0 - OPTICAL OVER OVERCOAD OVERCURRENT OVERCURRENT OVERCURRENT OUTSIDE AIR DAMPER OPTICAL ADD/DROP MULTIPLEXER OPERATIONS ALARMS MAINTENANCE PROVISIONING ON CENTER, OVERCROSSING, OPTICAL CARRIER 51.84 Mb/s OPTICAL CARRIER LEVEL 1 9.92 Gb/s OPTICAL CARRIER LEVEL 1 9.92 Gb/s OPTICAL CARRIER LEVEL 1 OPTICAL CARRIER LEVEL 1 THRU OPTICAL CARRIER LEVEL 1 9.92 Gb/s OPTICAL CARRIER LEVEL 1 0PTICAL CARRIER LEV	PET, PETRO, PT PF PG PGA PGL PH PH PH, Ø PI PIDS PIN PIP PIN PIP PIV PIV PL	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL PHASE, POTHOLE PHASE, POTHOLE PHASE POINT OF INFLECTION, POINT OF INTERSECTION PORTAL INTRUSION DETECTION SYSTEM PROPERTY IDENTIFICATION NUMBER POURED—IN—PLACE POINT OF INTERSECTION OF TURNOUT POSTIL TANGENTS PIPE LINE, PLATE, PROPERTY LINE, PLATFORM, PLASTIC	Ř NO. R/C R/R R/W R1 RA RAC RAD RAT RBC RBD RBC RBM RC RCB RCP	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR RESCUE ASSISTANCE AREA RIGHT ACTIVE CHANNEL RETURN AIR DAMPER, RADIUS REMOTE ATO TERMINAL RESULENT RUBBER BASE REINFORCED BOX CULVERT RAILBOUND MANGANESE FROG REINFORCED CONCRETE, REMOTE CONTROL, RIGHT CABLE REINFORCED CONCRETE BOX REINFORCED CONCRETE PIPE	SAB SAN SAR SAT SB SBGR SBO SC SCAC SCAC SCAC SCADA SCD SCS SCH SCHP SCN	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE SELF CONTAINED AIR CONDITIONER SUPERVISORY CONTROL AND DATA ACQUISITION SEAT COVER DISPENSER, SMOKE CONTROL DAMPER SMOKE CONTROL SENSOR SCHEDULE SELF CONTAINED HEAT PUMP SYSTEMWIDE CABLE NETWORK SHORT CIRCUITING TERMINATION BLOCK SOAP DISPENSER, STORM DRAIN, TUNNEL	SS SSCO SSE SSK SSMH, SMH SSR SSS SST ST STA STA STA STA STA STA STF STC STF STF	SELECTOR SANITARY POINT OF TO ANOTH SANITARY SUBSURFA SEWER EA SERVICE S SANITARY SOUTH ST SYSTEM S SOAP STO STREET, S FROM SPII ALIGNMENT STANDBY SOUND TH STANDBY SOUND TH STANDBY SOUND TH STANDBY
0/ 0/L 0/C 0A 0AD 0ADM 0AMP 0C 0C1 0C192 0C1-0C192 0C1-0C192	GENERATION EQUIPMENT - 0 - OPTICAL OVER OVERLOAD OVERCURRENT OVERALL, OUTSIDE AIR OUTSIDE AIR DAMPER OPTICAL ADD/DROP MULTIPLEXER OPERATIONS ALARMS MAINTENANCE PROVISIONING ON CENTER, OVERCROSSING, OPTICAL CARRIER 51.84 Mb/s OPTICAL CARRIER LEVEL 1 9.92 Gb/s OPTICAL CARRIER LEVEL 1 9.92 Gb/s OPTICAL CARRIER LEVEL 1 0PTICAL CARRIER LEVEL 1 9.92 Gb/s OPTICAL CARRIER LEVEL 1 0PTICAL CARRIER LEVEL 1 0PTICAL CARRIER LEVEL 1 0PTICAL CARRIER LEVEL 3	PET, PETRO, PT PG PGA PGL PGT PH, Ø PI PIDS PIDS PIDS PIP PIP PITO PIV PIVC PL PLAS	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL PHASE, POTHOLE PHASE POINT OF INFLECTION, POINT OF INTERSECTION PORTAL INTRUSION DETECTION SYSTEM PROPERTY IDENTIFICATION NUMBER POURED-IN-PLACE POINT OF INTERSECTION OF TURNOUT POST INDICATOR VALVE POINT OF INTERSECTION OF TWO PROFILE TANGENTS PIPE LINE, PLATE, PROPERTY LINE, PLATFORM, PLASTIC PLASTER	Ř NO. R/C R/R R1 RA RA RAD RAD RAD RAD RAD RAD RBC RBM RC RBC RCB RCP RCR	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR RESCUE ASSISTANCE AREA RIGHT ACTIVE CHANNEL RETURN AIR DAMPER, RADIUS REMOTE ATO TERMINAL RESULENT RUBBER BASE REINFORCED BOX CULVERT RAILBOUND MANGANESE FROG REINFORCED CONCRETE, REMOTE CONTROL, RIGHT CABLE REINFORCED CONCRETE BOX REINFORCED CONCRETE BOX REINFORCED CONCRETE BOX REINFORCED CONCRETE PIPE ROUTE CHECK RELAY	SAB SAN SAR SAT SB SBQ SC SCAC SCAC SCADA SCD SCS SCH SCH SCH SCH SCN SCTB SD	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE SELF CONTAINED AIR CONDITIONER SUPERVISORY CONTROL AND DATA ACQUISITION SEAT COVER DISPENSER, SMOKE CONTROL DAMPER SMOKE CONTROL SENSOR SCHEDULE SELF CONTAINED HEAT PUMP SYSTEMWIDE CABLE NETWORK SHORT CIRCUITING TERMINATION BLOCK SOAP DISPENSER, STORM DRAIN, TUNNEL ISOLATION DAMPER, SUBWAY DAMPER	SS SSCO SSE SSK SSMH, SMH SSR SSS SST ST STA STA STD STC STD STE STIFF STL	SELECTOR SANITARY POINT OF TO ANOTH SUBSURFA SEWER EA SERVICE S SANITARY SOUTH ST SYSTEM S SOAP STO STREET, S FROM SPII ALIGNMENT STANDBY SOUND TR STANDARD SPECIAL T STIFFENER STEEL
0/ 0/L 0/C 0AD 0ADM 0ADM 0AMP 0C 0C1 0C192 0C1-0C192 0C1-0C192 0C3 0C48	GENERATION EQUIPMENT - 0 - OPTICAL OVER OVERLOAD OVERCURRENT OVERALL, OUTSIDE AIR OUTSIDE AIR DAMPER OPTICAL ADD/DROP MULTIPLEXER OPERATIONS ALARMS MAINTENANCE PROVISIONING ON CENTER, OVERCROSSING, OPTICAL CARRIER S1.84 Mb/s OPTICAL CARRIER LEVEL 1 9.92 Gb/s OPTICAL CARRIER LEVEL 1 9.92 Ob/s OPTICAL CARRIER LEVEL 1 9.92 ODTICAL CARRIER LEVEL 3 Gb/s OPTICAL CARRIER LEVEL 48	PET, PETRO, PT PF PG PGA PGL PH PH PH, Ø PI PIDS PIN PIP PIN PIP PIV PIV PL	PETROLEUM LINE POINT OF FROG PROFILE GRADE PEAK GROUND ACCELERATION PROFILE GRADE LINE PRIME GROUND TERMINAL PHASE, POTHOLE PHASE POINT OF INFLECTION, POINT OF INTERSECTION PORTAL INTRUSION DETECTION SYSTEM PROPERTY IDENTIFICATION NUMBER POURED-IN-PLACE POINT OF INTERSECTION OF TURNOUT POST INDICATOR VALVE POINT OF INTERSECTION OF TWO PROFILE TANGENTS PIPE LINE, PLATE, PROPERTY LINE, PLATFORM, PLASTIC PLASTER PROGRAMMABLE LOGIC CONTROLLER,	Ř NO. R/C R/R R1 RA RAA RAA RAD RAT RBC RBM RC RBM RC RCB RCP RCR RCV	RADIUS, RESISTOR, RISER, RING, ROUTER RELOCATE OR REMOVE AND SALVAGE RACK NUMBER RATE OF CHANGE RUNNING RAIL RIGHT-OF-WAY RING 1 RETURN AIR RESCUE ASSISTANCE AREA RIGHT ACTIVE CHANNEL RETURN AIR DAMPER, RADIUS REMOTE ATO TERMINAL RESILIENT RUBBER BASE REINFORCED BOX CULVERT RAILBOUND MANGANESE FROG REINFORCED CONCRETE, REMOTE CONTROL, RIGHT CABLE REINFORCED CONCRETE BOX REINFORCED CONCRETE PIPE ROUTE CHECK RELAY RECEIVE, REMOTE CONTROL VALVE	SAB SAN SAR SAT SB SBGR SBO SC SCAC SCAC SCADA SCD SCS SCH SCHP SCN SCTB	STATION AGENTS BOOTH SANITARY SOUND ATTENUATOR SATURATION SOUTH BOUND STEEL BEAM GUARDRAIL SINGLE BREAK OUTPUT SOLID CORE, POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE SELF CONTAINED AIR CONDITIONER SUPERVISORY CONTROL AND DATA ACQUISITION SEAT COVER DISPENSER, SMOKE CONTROL DAMPER SMOKE CONTROL SENSOR SCHEDULE SELF CONTAINED HEAT PUMP SYSTEMWIDE CABLE NETWORK SHORT CIRCUITING TERMINATION BLOCK SOAP DISPENSER, STORM DRAIN, TUNNEL ISOLATION DAMPER, SUBWAY DAMPER STORM DRAIN CATCH BASIN OR	SS SSCO SSE SSK SSMH, SMH SSS SSS SST ST STA STBY STC STD STE STD STE STL STOPR	SELECTOR SANITARY POINT OF TO ANOTH SANITARY SUBSURFA SEWER EA SERVICE S SANITARY SOUTH ST SYSTEM S SOAP STO STREET, S SOAP STO STANDARD SPECIAL T STANDARD SPECIAL T STIFFENER STEEL STOP SPE
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E, SUMP PUMP, STATIC E, SPARE, SPLICE				
IR TRACK				
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PRESSURE DISCHARGE OLE DOUBLE THROW				
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R				
A PACIFIC RAILROAD				
OWER SUPPLY CABINET,				
ACHINE POWER SUPPLY				
OLE SINGLE THROW				
OMMUNICATIONS				
PILE TREMIE CONCRETE RESSURE WATER GAUGE				
FOOT (FEET)				
REGISTER				
CUIT (34.5KV TPSS)				
SWITCH, STAINLESS STEEL,				
SEWER, SUBSTATION, CHANGE FROM ONE SPIRAL				
IER				
SEWER CLEANOUT ACE EASEMENT, SANITARY				
ASEMENT				
SINK SEWER MANHOLE				
ICK RELAY				
ELECTOR SWITCH				
SAINT, POINT OF CHANGE				
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- T -     TIM       t     THCKNESS       t     THCKNESS       t     TELEPHORE, COMUNICATION LINE, TOP, TRANSFORMER, TREAD, TP, TRANSDUCER, THERMOSTAT     TU       tAB     TOP & BOTTOM       TAB     TOP & BOTTOM       TAB     TOP & BOTTOM       TAB     TOP & BOTTOM       TAB     TOP & CARDER, TREAD, TP, TAM, TOP OF PARLE       T/Y     TOP OF PARLE       T/Y     TOP OF PARLE       TA     TRUNK AMPLIFER       TA     TRUNK AMPLIFER       TAH     TRUNK AMPLIFER       TAH     TRUNK AMPLIFER       TAH     TRUNK AMPLIFER       TAH     TRUNK AMPLIFER       TB     TOS EDETERMINED       TB     TOS EDETERMINED       TB     TONE COCK, TOP OF CURB, TRAN       TC     TIME CLOCK, TOP OF CURB, TRAN       TC     TOME COCK, TOP OF CURB, TRAN       TC     TRAN CONTROL, EAMMLA, CAMINET       TD     TEMPERATURE CONTROLTON       TC     TRANK CONTROL ROOM       TC     TRANK CONTROL ROOM       TC     TRANK CONTROL ROOM       TC     TRANK CONTROL ROOM							
T     TELEPHONE, COMMUNICATION LINE, TOP, TRANSFORMER, TREAD, TIP, TRANSFORMER, TREAD, TIP, TAB DTP & BOTTOM     TIM       T&P     TEMPERATURE AND PRESSURE RELIEF     TOC       T&O, T/O     TURNOUT     TOD       T/C, T.C.     TRAIN CONTROL     TOD       T/P     TOP OF     TOF       T/R     TOP OF PAWEMENT, TOP OF PIPE     TOS       T/R     TOP OF PAWEMENT, TOP OF PIPE     TOS       T/W     TOP OF PAWEMENT, TOP OF PIPE     TOS       T/W     TOP OF PAWEMENT, TOP OF PIPE     TOS       T/W     TOP OF RALL     TOW       T/W     TOP OF RAME     TOW       TA     TRUNESSION FORMAT AND     TOW       TA     TURNESSION FORMAT AND     TRASS       TA     TRUNESSION FORMAT AND     TRASS       TOD     TO BE DETERMINED     TRASS       TBD     TO BE DETERMINED BATCH     TRASS       TOD     TO BE DETERMINED MACHINE     TRASS       TOD     TO BE DETERMINED MACHINE     TRASS       TCC     TRANGRORTRUCTION ELASAND     TRASS	TENANT IMPROVEMENT, TRAIN	VAR VAV	VOLT-AMPERE REACTIVE, VARIES VARIABLE AIR VOLUME, VARIABLE AIR		- × -	ADDITION	AL HORIZONT
TOP, TRANSPORMER, TREAD, IP, TRANSDUCER, THERMOSTAT         TMH           Take         TOP & BOTTOM         TN           Take         TOP & BOTTOM         TO           TAKE         TOP & BOTTOM         TO           TAKE         TOP & TORNOUT         TO           T/C, T.C.         TRAIN CONTROL         TOI           T/Y, TOP OF PAVELENT, TOP OF PIPE         TOS           TAKE         TOP OF PAVELENT, TOP OF PIPE         TOT           TAKE         TOP OF RALL         TOW           TVW         TOP OF RALL         TOW           TAK         TRUNK AMPLIFER         TP           TA         TRUNK AMPLIFER         TP           TA         TRUNK AMPLIFER         TPS           TAN         TANGENT         TRANS           TAN         TANGENT         TRANS           TAN         TERMINAL BOX, TERMINAL BLOCKS,         TRANS           TED         TO BE DETERMINED         TRANS           TRAN         TONGE DETERMINED         TRANS           TOO         TO BE DETERMINED         TRANS           TA         TRUNCARTOR         TRANS           TED         TERMINATION BLOCK POST         TS           TC         TME CON	TREE LIGHTING	VB	DAMPER VACUUM BREAKER	× .		k <sub>1</sub>	TANGENT DIST
TRANSDUCER, THERMOSTAT         TM           Tab         TOP & BOTTOM         TN           Tab         TOP & BOTTOM         TO           To, T/O         TURNOUT         TOO           T/C, T.C.         TRAIN CONTROL         TO           T/P         TOP OF RAL         TO           T/W         TOP OF PAVEMENT, TOP OF PIPE         TOS           T/W         TOP OF RAL         TOW           TH         TELEPHONE CARRER         TP           TA         TEMPERATURE ALARM HIGH         TR           TO         TE DETESTINTON BLOCK POST         TS           TED         TO EE DETERMINED BY THE         TR           TR         TRUNKEL BORING MACHINE         TR           TOC         TO EE DETERMINED GY THE         TS           TED         TO EE DETERMINED GY THE         TR           TOC         TOR EETERMINED GY CHEST         TS           T	TRIP LOGIC CIRCUIT TERMINAL ZONE	VC	VERTICAL CURVE, VITRIFIED CLAY,	X-OVER	CROSSOVER (TRACK)		REFERRED TO
Table         TEMPERATURE AND PRESSURE RELIEF         T.O.           VALVE         TOC         TOD         TOD           VALVE         TOP OF         TOF           TOP OF         TOP OF         TOF           T/C. T.C.         TRAN CONTROL         TOD           T/P         TOP OF FAUL         TOT           T/W         TOP OF FAUL         TOT           T/W         TOP OF FAUL         TOW           T/W         TOP OF FAUL         TOW           TA         TRUNK AMPLIFER         TP           TA         TRUNK AMPLIFER         TRANS           TB         TERMINAL BOX, TERMINAL BLOCKS,         TRANS           TBD         TERMINATION BLOCK POST         TS           TC         TIM COUBLE         TRK           TS         TOME CLOCK, TOP OF CURB, TRUN         TC           COMTROL, TERMINAL CABINET, CARTER         TS           TC         TIME CLOCK, TOP OF CURB, TRUN         TRANS           TC         TIME CLOCK, TOP OF CURB, TRUN         TRANS           TC         TIME CONTROL AGAINTY         TR           TC         TIME CONTROL AGAINTY         TYE           TC         TRAN CONTROL AGAINTY         TYE	TELEPHONE MANHOLE	1400	VIDEO CARD	X/O XCVR	CROSSOVER TRANSCEIVER	k <sub>2</sub>	TANGENT DIS
VALVE TOC TO TO TO TO TO TO TO TO TO TO	TRUE NORTH TORQUE OIL REEL	VCD VCN	VITRIFIED CLAY DUCT VERTICAL CIRCULATION NODE	XFMR	TRANSFORMER	Lc	TOTAL LENGT
T/C, T.C.     TOP OF     TOF       T/C, T.C.     TRAIN CONTROL     TOL       T/P     TOP OF PAULMENT, TOP OF PIPE     TOS       T/R     TOP OF RAIL     TOW       TA     TOP OF RAIL     TOW       TA     TRUNK AMPLIFIER     TP       TA     TRUNK AMPLIFIER     TP       TA     TRUNK AMPLIFIER     TP       TA     TRUNK AMPLIFIER     TP       TA     TRUNK AMPLIFIER     TRAS       TBD     TO BE DETERMINED BY THE     TRANS       TBDC     TO BE DETERMINED BY THE     TR       TBD     TO BE DETERMINED BY THE     TR       TC/C     TRUNKL BORING MACHINE     TR       TBP     TERMINATION BLOCK POST     TS       TC     TRAIN CONTROL FORMUNCATIONS     TC       TC/C     TRAIN CONTROL FOULER     TS       TC/C     TRAIN CONTROL FOULER     TS       TC/C     TRAIN CONTROL PUBULDING     TV       TC/C     TRAIN CONTROL PUBULDING     TV       TC/C     TRAIN CONTROL POOT     TW	TOP OF CONCRETE	VCP	VENTILATION CONTROL PANEL,	XING XL	CROSSING INTERLOCKING ZONE		PC TO PT OF
T/C, T.C.     TRAIN CONTROL     TOL       T/P     TOP OF PAVEMENT, TOP OF PIPE     TOS       T/R     TOP OF RAIL     TOT       T/W     TOP OF RAIL     TOW       TA     TUNELPHONE CARRIER     TP       TA     TRUNK AMPLIPER     TRANS       TAH     TEMINAL BOX, TERMINAL BLOCKS,     TRANS       TBD     TEST BORING     TRANS       TBD     TERMINAL BOX, TERMINAL CABINET,     TRANS       TBD     TERMINATION BLOCK POST     TS       TC     TMME CONTROL & ACHINE     TRK       TBP     TERMINATION BLOCK POST     TS       TCC     TOMAL CONTROL ACHINE     TT       TCC     TOTAL COOLING CAPACITY     TVE       TCC     TOTAL CONTROL HOUSE     TT       TCC     TOTAL CONTROL ACHINE     TT       TCC     TOTAL CONTROL PROTOCOL     TW	TRANSIT ORIENTED DEVELOPMENT TOP OF FOOTING	VCT	VITRIFIED CLAY PIPE VINYL COMPOSITION TILE	XMT, XMIT	TRANSMIT	Lsc Ls <sub>1</sub>	LENGTH OF C
T/R     TOP OF RAIL     TOT       T/W     TOP OF RAIL     TOW       T/W     TOP OF RAIL     TOW       T/W     TOP OF RAIL     TOW       TA     TIT TELEPHONE CARRIER     TP       TA     TRUNK AMPLIFER     TRANSMISSION FORMAT AND     TP       TA     TERMINAL BOX, TERMINAL BLOCKS,     TR       TB     TERTINAL BOX, TERMINAL BLOCKS,     TR       TB     TERMINAL BORING MACHINE     TR       TBD     TO BE DETERMINED     TRANS       TBD     TO BE DETERMINED     TR       TBL     TROUBLE     TR       TC     TIME COCK, TOP OF CURR, TRAIN     CONTROL, TERMINAL CABINET,       TC     TIME CONTROL ACHINE     TR       TC     TME CONTROL ACHINE, CABLER, TAIN     COMMUNICATIONS       TCC     TAL CONTROL, SUBLENT     TV       TCC     TEMPORATY CONSTRUCTION EASEMENT     TV       TCC     TEMPORATY CONSTRUCTION EASEMENT     TV       TCC     TEMPORATY CONSTRUCTION FACEL     TW       TCC     TEMPORATY CONSTRUCTION STAGING     TW       TCC     TEMPORATY CONSTRUCTION STAGING     TW       TCC     TEMPORATIVE CLOSE     TW       TCC     TEMPORATY CONSTRUCTION STAGING     TW       TCC     TEMPORATIVE CLOS	TOLERANCE	VCTB	VINYL COVERED TACK BOARD	XMTR XSR	TRANSMITTER DIRECTIONAL ROUTE LOCKING RELAY	LSo	LENGTH OF S
T/W         TOP OF WALL         TOW           T1         TI TELEPHONE CARRIER         TP           TA         TRUNK MAPLIFIER         TP           TA         TRUNK MAPLIFIER         TPS           TA         TRUNK MAPLIFIER         TPS           TA         TRUNK MAPLIFIER         TPS           TA         TRUNK MAPLIFIER         TRAS           TA         TRUNK MAPLIFIER         TRAS           TB         TERMINAL BOX, TERMINAL BLOCKS,         TRAS           TBD         TO BE DETERMINED         TRANS           TBD         TOUNNEL BORING MACHINE         TR           TBD         TRUNKL BORING MACHINE         TR           TC         TIME CLOCK, TOP OF CURR, TRAIN         TC           COMMUNCATIONS         TC         TR           TCC         TANN CONTROL BUILDING         TC           TCC         TANN CONTROL BUILDING         TV           TCC         TANN CONTROL ONOM         TV           TCC         TANN CONTROL ONOM         TC           TCC         TANN CONTROL ONOM         TC           TCC         TANN CONTROL ONOM         TC           TCC         TANN CONTROL ROTOCOL         TW <td< td=""><td>TOP OF STRUCTURE (STEEL, SLAB) TOTAL</td><td>VD</td><td>VOLUME DAMPER, VIBRATION DETECTOR</td><td>XT</td><td>X-TERMINAL COMPUTER</td><td>pc</td><td>OFFSET BETW</td></td<>	TOP OF STRUCTURE (STEEL, SLAB) TOTAL	VD	VOLUME DAMPER, VIBRATION DETECTOR	XT	X-TERMINAL COMPUTER	pc	OFFSET BETW
T1     T1 TELEPHONE CARRIER     IP       TA     TRANSMISSION FORMAT AND EQUIPMENT     TPD       TA     TRUNK AMPLIFIER     TPD       TA     TRUNK AMPLIFIER     TPD       TA     TRUNK AMPLIFIER     TR       TA     TEMPERATURE ALARM HIGH     TR       TB     TERNINAL BOX, TERMINAL BLOCKS,     TRANS       TBD     TO BE DETERMINED BY THE     TR-FO       TBL     TROUBLE     TR       TB     TEMINATION BORING MACHINE     TR       TC     TMM COCK, TOP OF CURR, TRAIN     COMTROL, TERMINAL CABINET,     TSL       TC     TME CONTROL BORING MACHINE     TS     TC       TC     TME CONTROL, TERMINAL CABINET,     TSL     TSL       TC     TMEN CONTROL, CONTROL LEWER,     TSL     TSL       TCC     TRAIN CONTROL, BUILDING     TV     TC       TCR     TRAIN CONTROL, PROTOCOL     TW     TV       TCR     TRAIN CONTROL, PROTOCOL     TW     TV       TCR     TRAIN CONTROL, PROTOCOL     TW     TW       TCA     TRACK CIRCUTT UNING     <	TOP OF WALL	VDA	VIDEO DISTRIBUTION AMPLIFIER		- Y -	1	CURVATURE
EQUIPMENT         TPD           TAH         TRUNK AMPLIFIER         TPS           TAH         TEMPERATURE ALARM HIGH         TR           TAN         TAMERATURE ALARM HIGH         TR           TB         TEST BORING         TRACS           TED         TO BE DETERMINED BY THE         TR-FO           TBD         TO BE DETERMINED BY THE         TR-FO           TBL         TROUBLE         TRK           TBP         TERMINATION BLOCK POST         TS           TC         TIME COCK, TOP OF CURB, TRAIN         COMTROL, TERMINAL CABINET,         TSL           TCC         TAMI CONTROL &         TTC         TSP           TCC         TAMI CONTROL BUILDING         TV         TV           TCC         TAMI CONTROL BUILDING         TV         TV           TCC         TAMIN CONTROL PROTOCOL         TW         TV           TCC         TAMIN CONTROL PROTOCOL         TV         TV           TCC         TAMIN CONTROL PROTOCOL         TW         TV           TCC         TAMIN CONTROL ROOM         TW         TW           TCC         TAMIN CONTROL PROTOCOL         TW         TV           TCC         TEMANSPORT CONSTRUCTION STAGING         TW	TRACTION POWER, TWISTED PAIR, TRAP PRIMER, TEST PIT,	VDC VE	VOLTS DIRECT CURRENT MOTOR VIBRATION DETECTOR,			P <sub>1</sub>	OFFSET FROM
TA     TRUNK AMPLIFER     1PJ       TAH     TEMPERTURE ALARM HIGH     TR       TAN     TANGENT     TR       TB     TERMINAL BOX, TERMINAL BLOCKS,     TRACS       TBD     TO BE DETERMINED     TRANS       TBD     TO BE DETERMINED BY THE     TR       TCC     TMME CLOCK, TOP OF CURB, TRAIN     TR       COMMUNICATIONS     TTC     TS       TCC     TOTAL COULING CAPACITY     TV       TCC     TOTAL COULING CAPACITY     TV       TCC     TEMPERATURE CONTROL PROTOCOL     TV       TCC     TOTAL COULING CAPACITY     TV       TCC     TOTAL COULING CAPACITY     TV       TCC     TANN CONTROL ROOM     TV       TCC     TANN CONTROL ROOM     TW       TCC     TANN CONTROL ROOM     TW       TCS     TELECOMARY CONSTRUCTION STAGING     TW       TCT     TRACK	TRANSMISSION PRESSURE		VIBRATION ELEMENT	Y Y&S	OVERLAP, YARD YARDS AND SHOPS		SHIFTED CIRC
TAN     TEMPERATURE ALARM HIGH     TR       TAN     TARCENT     TRACS       TB     TERMINAL BOX, TERMINAL BLOCKS,     TRACS       TBD     TO BE DETERMINED     TRANS       TBDC     TO BE DETERMINED BY THE     TR-FO       TBD     TO BE DETERMINED BY THE     TR       TBD     TO BE DETERMINED BY THE     TR       TBD     TO BE DETERMINED BY THE     TR       TC     TIM TOUNEL BORING MACHINE     TR       TC     TIM CONTROL A     TR       TC     TEMPERATURE CONTROLLER     TS       TC     TRAIN CONTROL &     TTC       TC     TRAIN CONTROL ADARCTY     TV       TCC     TOTAL COOLING CAPACITY     TVE       TCC     TRAIN CONTROL ADARCT     TWE       TCC     TEMPERATURE CONTROL PANEL,     TV       TCC     TEMPORARY CONSTRUCTION FASEMENT     TVE       TCC     TRAIN CONTROL ROOM     TW     TW       TCS     TELEMETRY CABLE SPLICE     TW     TWE       TCS     TELEMETRY CABLE SPLICE     TW     TW       TCA     TRACK CIRCUIT TUNING     TW     TX, XMT       TD     TRECH DRAINF, TONNEL DAMPER,     TY     TY       TD     TRECH DRAINF, THOPONT     U     U       T	TOILET PAPER DISPENSER TRACTION POWER SUB STATION	VEL VENT	VELOCITY VENTILATION	YAH	TORQUE ALARM (HIGH)	P2	OFFSET FROM SHIFTED CIRC
TB     TERNINAL BOX, TERMINAL BLOCKS, TEST BORING     IMACS       TBD     TO BE DETERMINED     TRANS       TBDC     TO BE DETERMINED BY THE CONTRACTOR     TRANS       TBL     TROUBLE     TR       TBM     TUNNEL BORING MACHINE     TR       TBM     TRUNEL BORING MACHINE     TR       TC     TIME CLOCK, TOP OF CURB, TRAIN CONTROL, TERMINAL CABINET, TEMPERTURE CONTROLLER     TSL       TC/C     TRAIN CONTROL & COMMUNICATIONS     TTC       TC     TOTAL COOLING CAPACITY     TVE       TCC     TRAIN CONTROL PROTOCOL     TW       TCT     TRACK CIRCUT TUNING     TW       TCS     TELEMETRY CABLE SPLICE     TWW       TD     TRENCH DRANPER CONSTRUCTION STAGING     TWPR       TD     TRENCH DRANPER CLOSE RELAY     TW       TD     TREE DELAY CLOSE     TWPR       TD     TRENCH DRANPER CLOSE RELAY     UA       TDD     THE DELAY DOPOUT     UF       TDD     THE DELAY DOPOUT     UB       TDR <td>TRACK RELAY, TREAD</td> <td>VERT</td> <td>VERTICAL</td> <td>YCT YE</td> <td>YARD CONTROL TOWER YELLOW ASPECT LAMP</td> <td>Rc</td> <td>RADIUS OF C</td>	TRACK RELAY, TREAD	VERT	VERTICAL	YCT YE	YARD CONTROL TOWER YELLOW ASPECT LAMP	Rc	RADIUS OF C
TBDC     TO BE DETERMINED     INANS       TBDC     TO BE DETERMINED BY THE CONTRACTOR     TR-FO       TBL     TROUBLE     TRK       TBM     TUNNEL BORING MACHINE     TS       TBP     TERMINATION BLOCK POST     TS       TC     TIME CLOCK, TOP OF CURB, TRAIN CONTROL, TERMINAL CABINET, TEMPERATURE CONTROLLER     TSL       TC     TRAIN CONTROL & COMMUNICATIONS     TTC       TC     TRAIN CONTROL & COMMUNICATIONS     TTC       TC     TRAIN CONTROL BUILDING     TV       TCC     TOTAL COOLING CAPACITY     TVE       TCC     TOTAL COOLING CAPACITY     TVE       TCC     TRAIN CONTROL HOUSE     TW       TCR     TRAIN CONTROL PANEL, TRANSPORT CONTROL PANEL,     TWS       TCR     TRAIN CONTROL ROOM     TWA       TCS     TELEMERATRY CABLE SPLICE     TW       TCS     TEMPORARY CONSTRUCTION STAGING     TWR       TD     TRENCH DRAIN, TUNNEL DAMPER,     TW,       TD     TRENCH DAMPER CLOSE RELAY     TW       TD     TRENCH DAMPER COSEN RELAY     UA       TDD     TELECOMMUNICATIONS DEVICE FOR     UV/L       TDD     THE DELAY DE-ENERGIZING RELAY     UA       TDD     TILECOMMUNICATIONS     UC       TDD     TILECOMMUNICATIONS     UC	TRUNKED RADIO AND COMMUNICATIONS SYSTEMS	VEST	VESTIBULE VOICE FREQUENCY	YL	INDICATOR LIGHT		TANGENT DIS
TBDC     TO BE DETERMINED BY THE CONTRACTOR     TR-FO       TBL     TROUBLE     TRK       TBM     TUNNEL BORING MACHINE     TS       TBP     TERMINATION BLOCK POST     TS       TC     TIME CLOCK, TOP OF CURE, TRAIN CONTROL, TERMINAL CABINET, TEMPERATURE CONTROLLER     TS       TC     TRAIN CONTROL & TT     TS       TCC     TOME CLOCK, TOP OF CURE, TRAIN COMMUNICATIONS     TT       TCC     TOME CONTROL & A     TT       TCC     TOME CONTROL BALL     TV       TCC     TOTAL COOLING CAPACITY     TVE       TCC     TOTAL COOLING CAPACITY     TVE       TCC     TANIN CONTROL NOUSE     TV       TCC     TRAIN CONTROL ROLD PANEL,     TVM(S)       TCR     TRAIN CONTROL PROTOCOL     TW       TCS     TELEMETRY CABLE SPLICE     TW       TCS     TELEMETRY CABLE SPLICE     TWC       TCS     TELEMETRY CLOSE     TWC       TD     TRENCH DANN, TUNNEL DAMPER, TW     TW       TD     TRENCH DAMPER CLOSE RELAY     TW       TDC     TIME DELAY DE-ENERGZING RELAY     UA       TDD     TIME DELAY DE-ENERGZING RELAY     UA       TDD     TIME DELAY DE-ENERGZING RELAY     UB       TDR     TIME DELAY DE-ENERGZING RELAY     UB	TRANSFORMER, TRANSITION,	VFD	VARIABLE FREQUENCY DRIVE	YSH	TORQUE SWITCH (HIGH)	Ts <sub>1</sub> Ts <sub>2</sub>	TANGENT DIS
TBL     TROUBLE     TRK       TBM     TUNNEL BORING MACHINE     TS       TBP     TERNINATION BLOCK POST     TS       TC     TIME CLOCK, TOP OF CURB, TRAIN CONTROL, TERMINAL CABINET, TEMPERATURE CONTROLLER     TSL       TC/C     TRAIN CONTROL &     TT       TCB     TRAIN CONTROL &     TT       TCC     TRAIN CONTROL BUILDING     TV       TCC     TRAIN CONTROL BUILDING     TV       TCC     TRAIN CONTROL PAPEL,     TV       TCC     TRAIN CONTROL PROTOCOL     TW       TCC     TRAIN CONTROL PROTOCOL     TW       TCC     TRAIN CONTROL PROTOCOL     TW       TCC     TEMPERATURE CONTROL PAPEL,     TVS       TCR     TRAIN CONTROL PROTOCOL     TW       TCR     TRAIN CONTROL CASE     TWC       TCR     TRACK CIRCUIT TUNING     TW       TCS     TELEMETRY CABLE SPLICE     TW       TD     TRECH DRANPER CLOSE     TW       TDC     TIME DELAY DROPOUT     TW       TDD     THE DELAY DOPONT     UA <td< td=""><td>TRANSVERSE TRUNKED RADIO FIBER OPTIC</td><td>VHF</td><td>VERY HIGH FREQUENCY VIBRATION INDICATOR</td><td>YT</td><td>YARD TRACK</td><td>TS</td><td>POINT OF CH</td></td<>	TRANSVERSE TRUNKED RADIO FIBER OPTIC	VHF	VERY HIGH FREQUENCY VIBRATION INDICATOR	YT	YARD TRACK	TS	POINT OF CH
TBM     TUNNEL BORING MACHINE     ITS       TBP     TERMINATION BLOCK POST     TS       TC     TIME CLOCK, TOP OF CURB, TRAIN     CONTROL, TERMINAL CABINET,       TC     TEMPERATURE CONTROLLER     TSP       TC/C     TRAIN CONTROL &     TT       TCB     TRAIN CONTROL &     TT       TCC     TOTAL COOLING CAPACITY     TV       TCC     TOTAL COOLING CAPACITY     TV       TCC     TRAIN CONTROL HOUSE     TVM(S)       TCR     TRANSPORT CONTROL PANEL,     TVF       TCR     TRANSPORT CONTROL PANEL,     TVM(S)       TCR     TRANSPORT CONTROL PANEL,     TW       TCR     TRANSPORT CONTROL PANEL,     TW       TGS     TELEMETRY CABLE SPLICE     TWA       TCR     TRANSPORT CONSTRUCTION STAGING     TW       TCR     TRANSPORT CONSTRUCTION STAGING     TWR       TCR     TRANSPORT CONSTRUCTION STAGING     TWR       TCR     TRANSPORT CONSTRUCTION STAGING     TW       TCR     TRELECHETRY CABLE SPLICE     TWA       TCR     TRELECHETRY CABLE SPLICE     TWA       TD     TRENCHEND ANGREGATE     TYP       TD     TRENCHEND ANGREGATE     TYP       TDC     TIME DELAY DE-ENERGIZING RELAY     U/L       TDC     TIME	INTERFACE	VIB	MOTOR VIBRATION		- Z -	Xs <sub>1</sub>	TANGENT DIS
TC       TIERMINAL CABINET, CONTROL, TERMINAL CABINET, TEMPERATURE CONTROLLER       TSL         TG/C       TRAIN CONTROL & COMMUNICATIONS       TT         TCB       TRAIN CONTROL BUILDING       TC         TCC       TOTAL COOLING CAPACITY       TW         TCE       TEMPERATURE CONTROL PANEL, TRANSPORT CONTROL PANEL,       TV         TCR       TRAIN CONTROL ROUM       TW         TCR       TRAIN CONTROL ROOM       TW         TCS       TELECENTROC CONTROL PANEL,       TVS         TCR       TRAIN CONTROL ROOM       TW         TCS       TELECENTY CABLE SPLICE       TW         TCS       TELECOMMUNICATIONS DEVICE FOR       TW         TCT       TRENCH DRAIN, TUNNEL DAMPER,       TWR         TDD       TELECOMMUNICATIONS DEVICE FOR       CU>         TDD       TIME DELAY DE-ENERGIZING RELAY       U/L         TDD       TIME DELAY DE-ENERGIZING RELAY       UA         TDPU       TIME DELAY DE-ENERGIZING RELAY       UA         TDR       TIME DELAY DE-ENERGIZING RELAY       UB         TDR       TIME DELAY DE-ENERGIZING RELAY       UB         TDR       TIME DELAY DE-ENERGIZING RELAY       UB         TDR       TIME DELAY DE-ENERGIZING RELAY       UB <td>TRACK POINT OF CHANGE FROM TANGENT TO</td> <td>VIH</td> <td>VIBRATION INDICATION HIGH VOLTMETER</td> <td>z</td> <td>ZONE</td> <td>Xs<sub>2</sub></td> <td>TANGENT DIS</td>	TRACK POINT OF CHANGE FROM TANGENT TO	VIH	VIBRATION INDICATION HIGH VOLTMETER	z	ZONE	Xs <sub>2</sub>	TANGENT DIS
CONTROL, TERMINAL CABINET, TEMPERATURE CONTROLLER TSP TC/C TRAIN CONTROL & COMMUNICATIONS TCB TRAIN CONTROL BUILDING TCC TOTAL COOLING CAPACITY TCC TOTAL COOLING CAPACITY TCC TOTAL COOLING CAPACITY TCC TOTAL COOLING CAPACITY TCC TEMPERATURE CONTROL PANEL, TCP TEMPERATURE CONTROL PANEL, TRANSPORT CONTROL PANEL, TRANSPORT CONTROL PROTOCOL TW TCS TELEMETRY CABLE SPLICE TCS TELEMETRY CABLE SPLICE TCC TRECK CIRCUIT TUNING TCS TELEMETRY CABLE SPLICE TCC TRECK CIRCUIT TUNING TD TRENCH DRAIN, TUNNEL DAMPER, TD TRENCH DRAIN, TUNNEL DAMPER, TD TRENCH DRAIN, TUNNEL DAMPER, TD TRENCH DRAIN, TUNNEL DAMPER, TD TREDCH DRAIN COSE TOCR TUNNEL DAMPER CLOSE TDCR TUNNEL DAMPER OPEN RELAY U TDD TIME DELAY DROPOUT TDF TIME DELAY DROPOUT TDF TIME DELAY DROPOUT TDF TIME DELAY DROPOUT TDR TIME DELAY DROPONT U TDR TIME DELAY DE-ENERGIZING RELAY UC TEB MOTOR BEARING TEMPERATURE UD TEB MOTOR BEARING TEMPERATURE UD TEB MOTOR BEARING TEMPERATURE UD TEH TEMPERATURE ELEMENT, THREADED UC TEB MOTOR BEARING TEMPERATURE UD TELECOM TELEPHONE VAULT TELECOM TELEPHONE VAULT TELECOM TELEPHONE VAULT TELECOM TELEPHONE VAULT TELECOM TELEPHONE VAULT TELECOM TELEPHONE VAULT TEMPERATURE, TEMPORARY UNF TER TIMER RELAY, TERATZO UNK MOTOR WINDING TEMPERATURE UP (RTD'S) TF TRACK FEET, TRANSFER (ATO TO UPRE-OF UP TFM TELEPHONE VAULT TEMPERATURE TEMPORARY UNF TEM TELEPHONE VAULT TELEPHONE VAULT TELEPHONE VAULT TELECOM TELEPHONE VAULT TELECOM TELEPHONE VAULT TEMPERATURE INDICATION UNF THANSFER GRILLE THMER RELAY, TERATZO UNK MANUAL OR MANUAL TO ATO, UPS TFM TTANSFER GRILLE THME TRACK FEET, TRANSFER (ATO TO UPRE-OF UP TRANSFER GRILLE THME TELEPHONE VAULT TEMPERATURE INDICATION ONTROL UR TANSFER GRILLE THME TANASFER GRILE THME TANASFER GRILE THME TANASFER GRILE THME TEMPERATURE INDIC	SPIRAL, TRAFFIC SIGNAL, TUBE	VMS	VARIABLE MESSAGE SIGN, VISUAL	ZIC	POSITION INDICATOR CLOSED	Ys <sub>1</sub>	TANGENT OFF
TEMPERATURECONTROLLERTSPTC/CTRAIN CONTROL &TTTCBTTAIN CONTROL BUILDINGTTTCCTOTAL COOLING CAPACITYTVTCETEMPORARY CONSTRUCTION EASEMENTTVTCRTRAIN CONTROL HOUSETVM(S)TCPTEMPERATURE CONTROL PANEL,TVSTCRTRANSPORT CONTROL PROTOCOLTWTCRTRANSPORT CONTROL PROTOCOLTWTDTRENCH DRANT, TUNINEL DAMPERTWRTDOTIME DELAY DE-ENERGIZING RELAYUUDTIME DELAY DE-ENERGIZING RELAYUUDTIME DELAY DE-ENERGIZING RELAYUATDUTIME DELAY DE-ENERGIZING RELAYUATDUTIME DELAY DE-ENERGIZING RELAYUATDUTIME DELAY DE-ENERGIZING RELAYUATDUTIME DEL	SECTION, TUBE STEEL, TEST SWITCH	VMTF	MESSAGING SYSTEM VIBRATION MITIGATION TRACK FORM	ZIO ZSC	POSITION INDICATOR OPEN POSITION SWITCH CLOSED	Ys <sub>2</sub>	TANGENT OFF
TC/C     INAIN CONTROL &     TT       COMMUNICATIONS     TT       TCB     TRAIN CONTROL BUILDING     TV       TCC     TOTAL COOLING CAPACITY     TV       TCE     TEMPORARY CONSTRUCTION EASEMENT     TVE       TCH     TRAIN CONTROL HOUSE     TVM(S)       TCP     TENEPORARY CONSTRUCTION EASEMENT     TVF       TCR     TRAIN CONTROL PANEL,     TVM(S)       TCS     TELEMETRY CABLE SPLICE     TWC       TCS     TELEMETRY CABLE SPLICE     TWC       TCS     TELEMETRY CABLE SPLICE     TWC       TCT     TRACK CIRCUIT TUNING     TWR       TD     TRENCH DRAN, TUNNEL DAMPER,     TWP       TDC     TIME DELAY CLOSE     TDC       TDC     TIME DELAY DROPOUT     U       TDF     TIME DELAY DROPOUT     U       TDF     TIME DELAY DROPOUT     U       TDR     TUNNEL DAMPER OPEN RELAY     UA       TDR     TIME DELAY DROPONT     U       TDR     TIME DELAY DROPONT     U       TDR     TIME DELAY DROPONT     U       TDR     TIME DELAY DE-ENERGIZING RELAY     UB       TDR     TIME DELAY DROPONT     U       TDR     TIME DELAY DROPONT     U       TDR     TIME DELAY DROPONT <td< td=""><td>TRAFFIC SIGNAL TOTAL STATIC PRESSURE</td><td>VOL</td><td>VOLUME</td><td>ZSCA</td><td>POSITION SWITCH CLOSED ALARM</td><td></td><td>TOTAL CENTR</td></td<>	TRAFFIC SIGNAL TOTAL STATIC PRESSURE	VOL	VOLUME	ZSCA	POSITION SWITCH CLOSED ALARM		TOTAL CENTR
TCB     TRAIN CONTROL BUILDING     TV       TCC     TOTAL COOLING CAPACITY     TVE       TCE     TEMPORARY CONSTRUCTION EASEMENT     TVF       TCH     TRAIN CONTROL HOUSE     TVM(S)       TCP     TEMPORARY CONSTRUCTION EASEMENT     TVF       TCR     TRAIN CONTROL PROTOCOL     TVS       TCR     TRAIN CONTROL ROOM     TVA       TCS     TELEMETRY CABLE SPLICE     TWC       TCS     TELEMETRY CABLE SPLICE     TWC       TCS     TELEMETRY CABLE SPLICE     TWC       TCT     TRACK CIRCUIT TUNING     TWR       TD     TRENCH DRANPER CLOSE     TWPR       TDC     TIME DELAY CLOSE     TWP       TDC     TIME DELAY DROPOUT     U       TDD     TIME DELAY DROPOUT     U       TDF     TIME DELAY DROPOUT     U       TDR     TIME DELAY DROPONT     UBC       TDR     TIME DELAY DROPEN RELAY     UA       TDR     TIME DELAY DROPEN RELAY     UBC       TE     TEMPERATURE ELEMENT MOTOR     UEC       TE     TEMPE	TRANSFER TRIP	VOX	VOICE OPERATED TRANSMITTER GENERAL RAILWAY SIGNAL'S VITAL	ZSO	POSITION SWITCH OPEN	Δc	CENTRAL ANG
TCC       TOTAL COOLING CAPACITY       TVE         TCE       TEMPORARY CONSTRUCTION EASEMENT       TVF         TCH       TRAIN CONTROL PORTOL PANEL,       TVM(S)         TCR       TRAINSPORT CONTROL PANEL,       TVS         TCR       TRANSPORT CONTROL PROTOCOL       TW         TCS       TELEMETRY CABLE SPLICE       TWA         TCS       TERNCH DRAIN, TUNNEL DAMPER,       TWC         TCT       TRACK CIRCUIT TUNING       TWR         TD       TRENCH DRAIN, TUNNEL DAMPER,       TYP         TDA       TRE DELAY CLOSE       TWR         TDC       TIME DELAY DROPOUT       U         TDD       TIME DELAY DROPOUT       U         TDF       TIME DELAY DROPOUT       U         TDR       TIME DELAY DROPONT       UA         TDD       TIME DELAY DROPONT       UA         TDR       TIME DELAY DROPONT       UB         TDR       TIME DELAY DROPONT	TRANSFER TRIP CABINET TELEVISION, TURNING VANE		PROCESSOR INTERLOCKING SYSTEM			∆c <sub>1</sub>	SC TO CS CENTRAL ANG
TCH     TRAIN CONTROL HOUSE     TWM(S)       TCP     TEMPERATURE CONTROL PANEL,     TWM(S)       TCR     TRAINSPORT CONTROL PROTOCOL     TW       TCS     TELEMETRY CABLE SPLICE     TWA       TCS     TELEMETRY CONSTRUCTION STAGING     TWC       TCT     TRACK CIRCUIT TUNING     TWR       TD     TRENCH DRAIN, TUNNEL DAMPER,     TWR       TD     TRENCH DRAIN, TUNNEL DAMPER,     TWR       TD     TRENCH DRAIN, TUNNEL DAMPER,     TX, XMT       TDC     TIME DELAY CLOSE     TWD       TDD     TELECOMMUNICATIONS DEVICE FOR     U/L       TDD     THE DELAY DROPOUT     U       TDF     TIME DELAY OPEN     U/L       TDR     TIME DELAY OPEN RELAY     UA       TDR     TIME DELAY OPEN RELAY     UB       TDR     TIME DELAY DE-ENERGIZING RELAY     UB       TDR     TIME DELAY DE-ENERGIZING RELAY     UBC       TE     TEMPERATURE ELEMENT, THREADED     UCD       TEB     MOTOR BEARING TEMPERATURE     UD       TELECOMMUNICATIONS     UDF     UB       TELED     MOTOR BEARING TEMPERATURE     UD       TELE     BURIED TEL, TELEPHONE     UH       TELECOM     TELECOMMUNICATIONS     UM       TELE     BURED TEL, TELEPH	TUNNEL VENTILATION EQUIPMENT	VR	SPEED CODE APPLICATION RELAY, VIDEO REPEATER				COMPOUND C
TCRTRANSPORT CONTROL PAREL, TRAIN CONTROL ROTOCOL TCSTVSTCRTRAIN CONTROL ROOMTWTCSTELEMETRY CABLE SPLICETWATCSTELEMETRY CONSTRUCTION STAGING AREATWCTCTTRACK CIRCUIT TUNING TRANSFER COSETWRTDTRENCH DRAIN, TUNNEL DAMPER, TDATWRTDTRENCH DRAIN, TUNNEL DAMPER, TDATWRTDTRENCH DRAIN, TUNNEL DAMPER, TDCTWRTDTRENCH DRAIN, TUNNEL DAMPER, TDCTWRTDTELECOMMUNICATIONS DEVICE FOR THE DELAY DE-ENERGIZING RELAYUTDOTIME DELAY DC-ENERGIZING RELAY UDOUATDOTIME DELAY DE-ENERGIZING RELAY UDOUBUBCTETEMPERATURE ELEMENT, THREADED UCDUCDTEBMOTOR BEARING TEMPERATURE ENDUDFTELEBURIED TEL, TELEPHONE ENDUHFTELCOTELECOMMUNICATIONSUHFTELCOTELECOMMUNICATIONS UCDUDFTELBURIED TEL, TELEPHONE ENDERATURE ELEMENT MOTOR (RTD'S)UHTELCOMTELECOMMUNICATIONS UMCUMFTEMTIMER RELAY, TERRATZO MANUAL OR MANUAL TO ATO), FORWARD CURRENT CONDUCTION UPSUNFTFTRACK FEET, TRANSFER (ATO TO MANUAL OR MANUAL TO ATO), FORWARD CURRENT CONDUCTION UPSUPTFTRACK FEET, TRANSFER (ATO TO MANUAL OR MANUAL TO ATO), FORWARD CURRENT CONDUCTION UPSUPTFTRACK FEET, TRANSFER (ATO TO MANUAL OR MANUAL TO ATO), TRANSFER GRILLEUT TINETH	TUNNEL VENTILATION FAN TICKET VENDING MACHINE(S)	VRD	VITAL RELAY DRIVER, VPI VITAL RELAY			△c <sub>2</sub>	CENTRAL ANG
TCR     TRAIN CONTROL ROOM     TWA       TCS     TELEMETRY CABLE SPLICE     TWA       TCSA     TEMPORARY CONSTRUCTION STAGING     TWC       TCSA     TEMPORARY CONSTRUCTION STAGING     TWC       TCT     TRACK CIRCUIT TUNING     TWR       TD     TRENCH DRAIN, TUNNEL DAMPER,     TX, XMT       TDA     TIRE DERVED AGGREGATE     TYP       TDC     TIME DELAY CLOSE     TDC       TDD     TELECOMMUNICATIONS DEVICE FOR     U       TDD     TELECOMMUNICATIONS DEVICE FOR     U       TDD     TELECOMMUNICATIONS DEVICE FOR     U       TDD     THE DEAY     UCOSE       TDDO     TIME DELAY DE-ENERGIZING RELAY     UA       TDOR     TINNEL DAMPER OPEN RELAY     UA       TDDO     TIME DELAY PICK UP     UB       TDR     TIME DELAY DE-ENERGIZING RELAY     UBC       TE     TEMPERATURE ELEMENT, THREADED     UC       TE     TEMPERATURE ELEMENT, MOTOR     UE       TEB     MOTOR BEARING TEMPERATURE     UD       TEL     BURIED TEL, TELEPHONE     UH       TELCO     TELEPHONE COMPANY     UH       TELCO     TELEPHONE VAULT     UMC       TELEO     TELEPHONE VAULT     UNK       TELOT     TELEPHONE VAULT     UN	TUNNEL VENTILATION SHAFT	VRD01R	DRIVER RELAY FIRST REPEATER OF VRD				
TCSA     TELEMENT CABLE SPLICE     TWC       TCSA     TEMPORARY CONSTRUCTION STAGING     TWC       TCT     TRACK CIRCUIT TUNING     TWR       TD     TRENCH DRAIN, TUNNEL DAMPER,     TX, XMT       TDA     TIRE DERVED AGGREGATE     TYP       TDC     TIME DELAY CLOSE     TUC       TDD     TELECOMMUNICATIONS DEVICE FOR     U       TDD     TELECOMMUNICATIONS DEVICE FOR     U       TDD     THE DELAY OROPOUT     U       TDF     TIME DELAY OROPOUT     U       TDO     TIME DELAY OPEN     U/L       TDO     TIME DELAY OPEN RELAY     UA       TDO     TIME DELAY OPEN RELAY     UB       TDR     TIME DELAY PICK UP     UB       TE     TEMPERATURE ELEMENT, THREADED     UC       TE     TEMPERATURE ELEMENT, THREADED     UC       TE     TEMPERATURE ELEMENT MOTOR     UE       TEL     BURIED TEL, TELEPHONE     UH       TELCO     TELEPHONE COMPANY     UH       TELCO     TELEPHONE VAULT     UMC       TEMPERATURE, TEMPORARY     UNF       TELO     TELEPHONE VAULT     UNK       TELCO     TELEPHONE VAULT     UNAC       TELEO     TELEPHONE VAULT     UNF       TELCO     TELEPHONE VA	TRAVELED WAY TRANSPARENT WALL ASSEMBLY	VS	VOLTMETER SWITCH			10 s1	CENTRAL ANG ANGLE OF FIL
AREAIWPRTCTTRACK CIRCUIT TUNINGTWRTDTRENCH DRAIN, TUNNEL DAMPER,TX, XMTTDATIRE DERIVED AGGREGATETYPTDCTIME DELAY CLOSEUTDCRTELECOMMUNICATIONS DEVICE FORUTDDTELECOMMUNICATIONS DEVICE FORUTDDTIME DELAY DROPOUTUUUUTDFTIME DELAY OPENU/LTDOTIME DELAY OPEN RELAYUATDOTIME DELAY OPEN RELAYUATDRTIME DELAY DE-ENERGIZING RELAYUBTDRTIME DELAY DE-ENERGIZING RELAYUBCTETEMPERATURE ELEMENT, THREADEDUCTEBMOTOR BEARING TEMPERATUREUDFTELBURIED TEL, TELEPHONEUHTELCOMTELECOMMUNICATIONSUHFTELCOMTELECOMMUNICATIONSUHFTELCOMTELEPHONE VAULTUMCTEMPTEMPERATURE, TEMPORARYUNFTERTIMER RELAY, TERRATZOUNKTEMPTEMPERATURE, TEMPORARYUNFTERTIMER RELAY, TERRATZOUNKTEWMOTOR WINDING TEMPERATUREUNFTEWMOTOR WINDING TEMPERATUREUNFTEWMOTOR MANUAL TO ATO),UPCTFDTINAR RELAY, TERRATZOUNKTFETETRAFLUOROETHYLENEUPTGTOP OF GRATE (ELEVATION),TRANSFER GRILLETHTERAFLUOROETHYLENEUTTFETETRAFLUOROETHYLENEUTTIGTOP OF GRATE	TRAIN-TO-WAYSIDE COMMUNICATIONS	VSC VT	VITAL SERIAL CONTROLLER VOLTMETER TRANSDUCER, VOLTAGE				
TD     TRACK CIRCOT TOWING     TX, XMT       TD     TRENCH DRAIN, TUNNEL DAMPER,     TYP       TDA     TIRE DERIVED AGGREGATE     TYP       TDC     TIME DELAY CLOSE     TYP       TDD     TELECOMMUNICATIONS DEVICE FOR     (U>       TDD     TELECOMMUNICATIONS DEVICE FOR     (U)       TDD     THE DEAF     U       TDO     TIME DELAY DROPOUT     U       TDO     TIME DELAY DE-ENERGIZING RELAY     UA       TDO     TIME DELAY OPEN     UA       TDR     TIME DELAY POROPONT     UB       TDR     TIME DELAY OPEN     UC       TDR     TIME DELAY POROPONT     UB       TDR     TIME DELAY POROPONT     UB       TDR     TIME DELAY POROPONT     UB       TE     TEMPERATURE ELEMENT, THREADED     UC       TEB     MOTOR BEARING TEMPERATURE     UD       TEL     BURIED TEL, TELEPHONE     UH       TELCO     TELEPHONE COMPANY     UHF       TELECOM     TELECOMMUNICATIONS     UH       TELUT     TELEPHONE VAULT     UNF       TELECOM     TELECOMMUNICATIONS     UH       TELQUT     TELEPHONE VAULT     UNF       TEL     BURIED TEL, TELEPHONE     UH       TER     TIMER RELAY, TERR	TWISTED PAIR TOWER		TRANSFORMER			0 s2	CENTRAL ANG ANGLE OF SE
TDATIREDERIVEDAGGREGATETYPTDCTIMEDELAYCLOSETUSETDCRTUNELDAMPERCLOSERELAYTDDTELECOMMUNICATIONSDEVICE FORUTDDTIMEDELAYDROPOUTUTDFTIMEDELAYDROPOUTUTDOTIMEDELAYDE-ENERGIZINGRELAYTDOTIMEDELAYOPENU/LTDRTIMEDELAYPICKUTDRTIMEDELAYPICKUTETEMPERATUREELEMENT, THREADEDUCTEBMOTORBEARINGTEMPERATUREUDTEHTEMPERATUREELEMENTMOTORUETELBURIEDTEL,TELEPHONEUHTELCOMTELECOMMUNICATIONSUHFTELCOMTELECOMMUNICATIONSUHFTELVTTELEPHONEUHTELVTTELEPHONEUHTELVTTELEPHONEUNFTERTIMERRELAY, TERRATZOUNKTEWMOTOR WINDING TEMPERATUREUNFTERTIMER RELAY, TERRATZOUNKTEWMOTOR WINDING TEMPERATUREUNFTEWMOTOR WINDING TEMPERATUREUNFTEWMOTOR WINDING TEMPERATUREUNFTERTIMER RELAY, TERRATZOUNKTFTRACKFEET, TRANSFER (ATO TOUPCTFTRACK FEET, TRANSFER (ATO TOUPCTFTRAFFE GRILLEUTTH <td>TRANSMIT</td> <td>VTR VZ</td> <td>VENT THRU ROOF VENT ZONE</td> <td>1</td> <td></td> <td>() s<sub>3</sub></td> <td>CENTRAL ANG</td>	TRANSMIT	VTR VZ	VENT THRU ROOF VENT ZONE	1		() s <sub>3</sub>	CENTRAL ANG
TDCRTUNNEL DAMPER CLOSE RELAYTDDTELECOMMUNICATIONS DEVICE FOR THE DELAY DROPOUTTDD0TIME DELAY DROPOUTTDFTIME DELAY DE-ENERGIZING RELAYTD0TIME DELAY OPENTD0RTUNNEL DAMPER OPEN RELAYTDRTIME DELAY PICK UPTDRTIME DELAY PICK UPTETEMPERATURE ELEMENT, THREADEDUCDUCTEENDTEBMOTOR BEARING TEMPERATUREUDFUCTEHTEMPERATURE ELEMENT MOTORTELBURIED TEL, TELEPHONETELCOTELEPHONE COMPANYTELCOMTELEPHONE COMPANYTELCOMTELEPHONE WAULTTEWMOTOR WINDING TEMPERATUREUNFUNFTERTIMER RELAY, TERRATZOTFTRACK FEET, TRANSFER (ATO TO MANUAL OR MANUAL TO ATO),UPR(RTD'S)TFTRACK FEET, TRANSFER (ATO TO MANUAL OR MANUAL TO ATO),UPRUPRTFETETRAFLUOROETHYLENETGTOP OF GRATE (ELEVATION), TRANSFER GRILLETHTELEPHONE HAND HOLETHTELEPHONE HAND HOLETHTELEPHONE HAND HOLETHRUTHROUGHTHRUTHROUGHTICHLTEMPERATURE INDICATION CONTROL (HIGH/LOW)TIEETEMPERATURE INDICATION CONTROL (HIGH/LOW)TIHTEMPERATURE INDICATION CONTROL (HIGH/LOW)TIHTEMPERATURE INDICATION HIGH FOR VA	TYPICAL	142	VENT ZONE			0.93	COMPOUND S
TDDTELECOMMUNICATIONS DEVICE FOR THE DEAF <u>TDD0TIME DELAY DROPOUTUTDFTIME DELAY DROPOUTUTDFTIME DELAY DROPONU/LTDOTIME DELAY OPENU/LTDORTUNNEL DAMPER OPEN RELAYUATDRTIME DELAY PICK UPUBTRTIME DELAY PICK UPUBTETEMPERATURE ELEMENT, THREADEDUCDTEBMOTOR BEARING TEMPERATUREUDTEHTEMPERATURE ELEMENT MOTORUEENDENCLOSURE SPACE HEATERUGTELBURIED TEL, TELEPHONEUHTELCOMTELECOMMUNICATIONSUHHTELVITTELEPHONE COMPANYUNFTEMPERATURE, TEMPORARYUNFTERTIMER RELAY, TERRATZOUNKTERTIMER RELAY, TERRATZOUNKTERTIMER RELAY, TERRATZOUNKTFTRACK FEET, TRANSFER (ATO TOUPC(RTD'S)UPUPCTFDTUNNEL VENTILATION FAN DAMPERURTFETETRAFLUOROETHYLENEURTFDTUNNEL VENTILATION FAN DAMPERURTFETETRAFLUOROETHYLENEUSTFDTUNNEL VENTILATION FAN DAMPERURTFETETRAFLUOROETHYLENEUTCTFMTEST HOLE (SUBSURFACEUTCTHTELEPHONE HAND HOLEUTCTHRTOTAL HEAT REJECTIONUTPTHRUTHROUGHUVTHRUTHEMPERATURE INDICATION CONTROL(HIGH/LOW)TICHL</u>	- U -		- w -			#10	TRACK TURNO
TDDOTIMEDELAYDROPOUTUTDFTIMEDELAYDROPOUTU/LTDFTIMEDELAYDPENORTDOTIMEDELAYOPENU/LTDORTUNNELDAMPEROPENRELAYTDRTIMEDELAYDENATETEMPERATUREELEMENT, THREADEDUCTEBMOTORMOTOR BEARING TEMPERATUREUDFTEHTEMPERATUREELEMENTMOTTELBURIEDTEL, TELEPHONEUHTELCOTELEPHONECOMPANYUHFTELCOMTELEPHONECOMPANYUHFTELCOMTELEPHONEVAULTUMCTEWMOTOR WINDING TEMPERATUREUNFTERTIMER RELAY, TERRATZOUNKTEWMOTOR WINDING TEMPERATUREUNFTERTIMER RELAY, TERRATZOUNKTFTRACK FEET, TRANSFER (ATO TOUPCUPCUNNEL VENTILATION FAN DAMPERURTFETETRAFLUOROETHYLENEUSTFETETRAFLUOROETHYLENEUSTFETETRAFLUOROETHYLENEUTTHTELEPHONE HAND HOLEUTCTHRUTHROUGHUTTHRUTHROUGHUVTICHLTEMPERATURE INDICATIONUVTICHLTEMPERATURE INDICATIONUVTICHLTEMPERATURE INDICATIONUVTICHLTEMPERATURE INDICATIONUVTICHLTEMPERATURE INDICATIONUVTICHLTEMPER	UPGRADE	w	WIDTH, WATER, WEST, WATT			#15 EQ	EQUALATERAL
TDFTIME DELAY DE-ENERGIZING RELAYU/LTDOTIME DELAY OPENU/LTDRTIME DELAY OPEN RELAYUATDRTIME DELAY DE-ENERGIZING RELAYUBTETEMPERATURE ELEMENT, THREADEDUCTEENDUCDTEBMOTOR BEARING TEMPERATUREUDFTEHTEMPERATURE ELEMENT MOTORUETELBURIED TEL, TELEPHONEUHTELCOSURE SPACE HEATERUGTELCOTELEPHONE COMPANYUHFTELCOMTELEPHONE COMPANYUHFTELVITTELEPHONE VAULTUMCTERTIMER RELAY, TERRATZOUNKTERTIMER RELAY, TERRATZOUNKTERTIMER RELAY, TERRATZOUNKTFTRACK FEET, TRANSFER (ATO TOUPCMOTOR WINDING TEMPERATUREUNOTFTRACK FEET, TRANSFER (ATO TOUPR-OHUPCUNNEL VENTILATION FAN DAMPERURTFETETRAFLUOROETHYLENEUSTFTRANSFER GRILLEURTHTELEPHONE HAND HOLEUTCTHRUTHROUGHUTTHRUTHROUGHUVTICHLTEMPERATURE INDICATION CONTROLUWPTICHLTEMPERATURE INDICATION CONTROLUWPTICHLTEMPERATURE INDICATION HIGH FORVA	UNBALANCED SUPERELEVATION	W/.	WITH				
TDORTUNNEL DAMPER OPEN RELAYUATDPUTIME DELAY PICK UPUBTDRTIME DELAY DE-ENERGIZING RELAYUBCTETEMPERATURE ELEMENT, THREADEDUCENDUCUCTEBMOTOR BEARING TEMPERATUREUD(RTD'S)UDFUGTEHTEMPERATURE ELEMENT MOTORUEENCLOSURE SPACE HEATERUGTELBURIED TEL, TELEPHONEUHTELCOTELEPHONE COMPANYUHFTELCOMTELEPHONE VAULTUMCTEMPTEMPERATURE, TEMPORARYUNFTERTIMER RELAY, TERRATZOUNKTEWMOTOR WINDING TEMPERATUREUNO(RTD'S)UPUPCTFTRACK FEET, TRANSFER (ATO TOUPR—OFMANUAL OR MANUAL TO ATO),UPRR—OFURTRANSFER GRILEURTFTERAFLUOROETHYLENEURTFETETRAFLUOROETHYLENEURTFETOP OF GRATE (ELEVATION),URTFETOP OF GRATE (ELEVATION),UTTHTELEPHONE HAND HOLEUTCTHRTOTAL HEAT REJECTIONUTTHRTOTAL HEAT REJECTIONUTTICHLTEMPERATURE INDICATION CONTROL(HIGH/LOW)TIEETEMPERATURE INDICATION CONTROL(HIGH/LOW)TIHTEMPERATURE INDICATION HIGH FORVA	(IN INCHES), TURN-BACK	W/O WAC	WITHOUT WALL MOUNTED AIR CONDITIONING				
TDPUTIMEDELAYPICKUPTDRTIMEDELAYDE-ENERGIZINGRELAYUBCTETEMPERATUREELEMENT, THREADEDUCENDENDUCDTEBMOTORBEARINGTEMPERATUREUDTEHTEMPERATUREELEMENTMOTORUETELBURIEDTEL, TELEPHONEUHTELCOMTELECOMMUNICATIONSUHHTELVLTTELEPHONE VAULTUMCTEMPTEMPERATURE, TEMPORARYUNFTERTIMERRELAY, TERRATZOUNKTFTRACK FEET, TRANSFER (ATO TOUPCTFDTUNNEL VENTILATION FAN DAMPERURTFETETRAFLUOROETHYLENEURTFETOP OF GRATE (ELEVATION), TRANSFER GRILLEUTTHTEST HOLE (SUBSURFACE INVESTIGATION)UTTHTELEPHONE HAND HOLEUTTHRTOTAL HEAT REJECTIONUTTHRTOTAL HEAT REJECTIONUVTHRTOTAL HEAT REJECTIONUVTHRTOTAL HEAT REJECTIONUVTHRTEMPERATURE INDICATION CONTROL (HIGH/LOW)UVUVTIEETEMPERATURE INDICATION CONTROL (HIGH/LOW)VA	UP LINK COMMON ALARM		UNIT				
TE TEMPERATURE ELEMENT, THREADED UC END UCD TEB MOTOR BEARING TEMPERATURE UD (RTD'S) UDF TEH TEMPERATURE ELEMENT MOTOR UE ENCLOSURE SPACE HEATER UG TEL BURIED TEL, TELEPHONE UH TELCO TELEPHONE COMPANY UHF TELCOM TELECOMMUNICATIONS UHH TELCOM TELEPHONE VAULT UMC TEMP TEMPERATURE, TEMPORARY UNF TER TIMER RELAY, TERRATZO UNN TEW MOTOR WINDING TEMPERATURE UNO (RTD'S) TF TRACK FEET, TRANSFER (ATO TO UPC (RTD'S) TF TRACK FEET, TRANSFER (ATO TO UPC MANUAL OR MANUAL TO ATO), UPR—OF UNS TFD TUNNEL VENTILATION FAN DAMPER UR TEE TETRAFLUOROETHYLENE URH TEE TETRAFLUOROETHYLENE URH TE TEST HOLE (SUBSURFACE INVESTIGATION) UT THH TELEPHONE HAND HOLE UTC THK THICK, THICKNESS UTIL THR TOTAL HEAT REJECTION UTP THRU THROUGH UV TICHL TEMPERATURE INDICATION CONTROL (HIGH/LOW) TIEE TEMPERATURE INDICATION HIGH FOR VA	UTILITY BOX	WAO WB	WORK AREA OUTLET WESTBOUND, WEST BANK, WET BULB				
ENDUCDTEBMOTOR BEARING TEMPERATUREUDTEH(RTD'S)UDFTEHTEMPERATURE ELEMENT MOTORUETELBURIED TEL, TELEPHONEUHTELCOTELEPHONE COMPANYUHFTELCOMTELEOMMUNICATIONSUHHTELVLTTELEPHONE KULLUNFTERTIMER RELAY, TERRATZOUNKTEWMOTOR WINDING TEMPERATUREUPTEWMOTOR WINDING TEMPERATUREUNTFTRACK FEET, TRANSFER (ATO TOUPCTFDTUNNEL VENTILATION FAN DAMPERURTFETETRAFLUOROETHYLENEURTFETETRAFLUOROETHYLENEURTGTOP OF GRATE (ELEVATION),USTHTEST HOLE (SUBSURFACEUTCTHRTOTAL HEAT REJECTIONUTTHRUTHROUGHUVTICHLTEMPERATURE INDICATION CONTROLUWPTICHLTEMPERATURE INDICATION CONTROLUWPTIEETEMPERATURE INDICATION HIGH FORVA	UNIFORM BUILDING CODE UNDERCUT, UNDERCROSSING	WC	WATER CLOSET			1	
Interm(RTD'S)UDFTEHTEMPERATURE ELEMENT MOTORUEENCLOSURE SPACE HEATERUGTELBURIED TEL, TELEPHONEUHTELCOTELEPHONE COMPANYUHFTELCOTELEPHONE COMPANYUHFTELVLTTELEPHONE VAULTUMCTEMPTEMPERATURE, TEMPORARYUNFTERTIMER RELAY, TERRATZOUNNTFTRACK FEET, TRANSFER (ATO TOUPC(RTD'S)UFUPCTFTRACK FEET, TRANSFER (ATO TOUPCMANUAL OR MANUAL TO ATO),UPRR-OFURAUL OR MANUAL ON ATON,UPSTFDTUNNEL VENTILATION FAN DAMPERURTFETETRAFLUOROETHYLENEURHTGTOP OF GRATE (ELEVATION),UTTHTEST HOLE (SUBSURFACEUTCTHRTOTAL HEAT REJECTIONUTTHRTOTAL HEAT REJECTIONUTTICHLTEMPERATURE INDICATION CONTROLUWPTICHLTEMPERATURE INDICATION CONTROLUWPTIEETEMPERATURE INDICATION ONTROLUWPTIETEMPERATURE INDICATION HIGH FORVA	UNDER CAR DELUGE	WCO W.PR.	WALL CLEAN OUT WATER COLUMN				
TEHTEMPERATURE ENCLOSURE ENCLOSURE SPACE HEATERUE UG UHTELBURIED TEL, TELEPHONEUHTELCOTELEPHONE COMPANYUHFTELCOMTELEPHONE COMPANYUHFTELVLTTELEPHONE VAULTUMCTENPPTEMPERATURE, TEMPORARYUNFTERTIMER RELAY, TERRATZOUNKTFTRACK FEET, TRANSFER (ATO TO UPCUPCTFTRACK FEET, TRANSFER (ATO TO UPR-OH UPCUPCTFTRACK FEET, TRANSFER (ATO TO UPR-OH UPCUPCTFETETRAFLUOROETHYLENEURTFETETRAFLUOROETHYLENEURTFETETRAFLUOROETHYLENEURTFTRANSFER GRILLEURTHTEST HOLE (SUBSURFACE UNEL VENTILATION FAN DAMPER URUTTHTEST HOLE (SUBSURFACEUTCTHRTOTAL HEAT REJECTIONUTTHRTOTAL HEAT REJECTIONUTTHRTEMPERATURE INDICATION CONTROL (HIGH/LOW)UVTIEETEMPERATURE INDICATION CONTROL (HIGH/LOW)UVTIEETEMPERATURE INDICATION HIGH FOR VAVA	UNDERDRAIN UNITED DEFENSE	WDG'	WINDING				
TEL     BURIED TEL, TELEPHONE     UH       TELCO     TELEPHONE COMPANY     UHF       TELECO     TELEPHONE COMPANY     UHH       TELECOM     TELEPHONE VAULT     UMC       TELVLT     TELEPHONE VAULT     UNC       TEMP     TEMPERATURE, TEMPORARY     UNK       TER     TIMER RELAY, TERRATZO     UNK       TEW     MOTOR WINDING TEMPERATURE     UNO       (RTD'S)     UP     UPC       TF     TRACK FEET, TRANSFER (ATO TO     UPRR-OF       MANUAL OR MANUAL TO ATO),     UPRR-OF       FORWARD CURRENT CONDUCTION     UPS       TFD     TUNNEL VENTILATION FAN DAMPER     UR       TFE     TETRAFLUOROETHYLENE     URH       TG     TOP OF GRATE (ELEVATION),     US       TH     TEST HOLE (SUBSURFACE     UTC       INVESTIGATION)     UT     UT       THR     TOTAL HEAT REJECTION     UTP       THR     TOTAL HEAT REJECTION     UTP       THR     TOTAL HEAT REJECTION     UV       TICHL     TEMPERATURE INDICATION CONTROL     UWP       TICHL     TEMPERATURE INDICATION CONTROL     UWP       TICHL     TEMPERATURE INDICATION HIGH FOR     VA	UTILITY EASEMENT	WDM WEG	WAVE DIVISION MULTIPLEXER WALL EXHAUST GRILLE			1	
TELCO TELEPHONE COMPANY UHF TELECOM TELECOMMUNICATIONS UHH TELECOM TELECOMMUNICATIONS UHH TELVLT TELEPHONE VAULT UMC TEMP TEMPERATURE, TEMPORARY UNF TER TIMER RELAY, TERPATZO UNK (RTD'S) TF TRACK FEET, TRANSFER (ATO TO UPC (RTD'S) TF TRACK FEET, TRANSFER (ATO TO UPC MANUAL OR MANUAL TO ATO), UPR-OH UPC FORWARD CURRENT CONDUCTION UR TFE TETRAFLUOROETHYLENE URH TFE TETRAFLUOROETHYLENE URH TFE TETRAFLUOROETHYLENE URH TFE TETRAFLUOROETHYLENE URH TFE TETRAFLUOROETHYLENE URH TH TEST HOLE (SUBSURFACE INVESTIGATION) UT THH TELEPHONE HAND HOLE UTC THK TOTAL HEAT REJECTION UTP THRU THROUGH UV TI TEMPERATURE INDICATION CONTROL (HICH/LOW) TIEE TEMPORARY INGRESS/EGRESS EASEMENT V TH TEMPERATURE INDICATION HIGH FOR VA	UNDERGROUND UNIT HEATER	WG	WATER GAUGE, WAVEGUIDE			1	
TELVLT TELEPHONE VAULT UNC TELVLT TELEPHONE VAULT UNC TEMP TEMPERATURE, TEMPORARY UNK TER TIMER RELAY, TERRATZO UNK (RTD'S) TF TRACK FEET, TRANSFER (ATO TO UPC (RTD'S) TF TRACK FEET, TRANSFER (ATO TO UPC MANUAL OR MANUAL TO ATO), FORWARD CURRENT CONDUCTION TFD TUNNEL VENTILATION FAN DAMPER TFE TETRAFLUOROETHYLENE TG TOP OF GRATE (ELEVATION), TRANSFER GRILLE TH TEST HOLE (SUBSURFACE INVESTIGATION) THH TELEPHONE HAND HOLE THR TOTAL HEAT REJECTION THRU THROUGH TICHL TEMPERATURE INDICATION CONTROL (HIGH/LOW) TIEE TEMPERATURE INDICATION HIGH FOR VA	ULTRA HIGH FREQUENCY	WGT	WEIGHT WATER GATE VALVE	1		1	
TEMP TEMPERATURE, TEMPORARY UNF TER TIMER RELAY, TERRATZO UNNO TEW MOTOR WINDING TEMPERATURE UNO (RTD'S) TF TRACK FEET, TRANSFER (ATO TO UPC MANUAL OR MANUAL TO ATO), UPR FORWARD CURRENT CONDUCTION UPS TFD TUNNEL VENTILATION FAN DAMPER URH TFE TETRAFLUOROETHYLENE URH TG TOP OF GRATE (ELEVATION), US TRANSFER GRILLE TH TEST HOLE (SUBSURFACE INVESTIGATION) UT THH TELEPHONE HAND HOLE UTC THK THICK, THICKNESS THRU THROUGH THRU THROUGH UV TICHL TEMPERATURE INDICATION CONTROL (HIGH/LOW) TIEE TEMPERATURE INDICATION HIGH FOR VA	UNIT HEATER HYDRONIC UNIFORM MECHANICAL CODE	WGV WH	WEEP HOLE, WATER HEATER			1	
TEW MOTOR WINDING TEMPERATURE UNO (RTD'S) UP TF TRACK FEET, TRANSFER (ATO TO UPC MANUAL OR MANUAL TO ATO), FORWARD CURRENT CONDUCTION TFD TUNNEL VENTILATION FAN DAMPER TFE TETRAFLUOROETHYLENE UR TG TOP OF GRATE (ELEVATION), TRANSFER GRILLE TH TEST HOLE (SUBSURFACE INVESTIGATION) UT TH TELEPHONE HAND HOLE UTC THK THICK, THICKNESS THRU THROUGH UV TICHL TEMPERATURE INDICATION ONTROL (HIGH/LOW) TIEE TEMPERATURE INDICATION HIGH FOR VA	UNFINISHED	WHA	WATER HAMMER ARRESTOR			1	
TF     TRACK FEET, TRANSFER (ATO TO     UPC       MANUAL OR MANUAL TO ATO),     UPRR-OF       FORWARD CURRENT CONDUCTION     UPS       TFD     TUNNEL VENTILATION FAN DAMPER     UR       TFE     TETRAFLUOROETHYLENE     UR       TG     TOP OF GRATE (ELEVATION),     UT       TH     TEST HOLE (SUBSURFACE     UTC       THK     TOTAL HEAT REJECTION     UT       THR     TOTAL HEAT REJECTION     UT       THR     TOTAL HEAT REJECTION     UT       THR     TEMPERATURE INDICATION CONTROL     UWP       TICHL     TEMPERATURE INDICATION CONTROL     UWP       TIEE     TEMPERATURE INDICATION HIGH FOR     VA	UNKNOWN UNLESS NOTED OTHERWISE	WIDS	WAYSIDE INTRUSION DETECTION SYSTEM			1	
TF     TRACK FEET, TRANSFER (ATO TO MANUAL OR MANUAL TO ATO), FORWARD CURRENT CONDUCTION     UPR UPR UPR UPR UPR UPR UPR UPR UPR UPR	UPWARD, UTILITY POLE	WL	WALL LOUVER, WATER LINE			1	
FORWARD CURRENT CONDUCTION     UPS       FORWARD CURRENT CONDUCTION     UR       TFD     TUNNEL VENTILATION FAN DAMPER     UR       TFE     TETRAFLUOROETHYLENE     UR       TG     TOP OF GRATE (ELEVATION),     US       TRANSFER GRILLE     TRANSFER GRILLE     UT       TH     TEST HOLE (SUBSURFACE     UTC       THK     THICK, THICKNESS     UTIL       THR     TOTAL HEAT REJECTION     UTP       THRU     THROUGH     UV       TICHL     TEMPERATURE INDICATION CONTROL     UWP       TIEE     TEMPERATURE INDICATION CONTROL     (HIGH/LOW)       TIH     TEMPERATURE INDICATION HIGH FOR     V	UNIFORM PLUMBING CODE IE OVERHEAD SIGNAL/COMM LINE	W'LY WM	WESTERLY WATER MAIN, WATER METER			1	
TFD     TUNNEL VENTILATION FAN DAMPER     UR URH       TFE     TETRAFLUOROETHYLENE     US       TG     TOP OF GRATE (ELEVATION), TRANSFER GRILLE     US       TH     TEST HOLE (SUBSURFACE INVESTIGATION)     UT       THH     TELEPHONE HAND HOLE     UT       THR     TOTAL HEAT REJECTION     UTP       THRU     THROUGH     UV       TICHL     TEMPERATURE INDICATION CONTROL (HIGH/LOW)     UWP       TIEE     TEMPERATURE INDICATION HIGH FOR     VA	UNINTERRUPTIBLE POWER SUPPLY	WMH	WATER MANHOLE				
TG TOP OF GRATE (ELEVATION), TRANSFER GRILLE TH TEST HOLE (SUBSURFACE INVESTIGATION) UT THH TELEPHONE HAND HOLE THK THICK, THICKNESS UTIL THR TOTAL HEAT REJECTION UTP THRU THROUGH UV TI TEMPERATURE INDICATION UWP TICHL TEMPERATURE INDICATION CONTROL (HIGH/LOW) TIEE TEMPORARY INGRESS/EGRESS EASEMENT V TIH TEMPERATURE INDICATION HIGH FOR VA	URINAL HANDICAP	WMS WO	WIRE MESH SCREEN WHERE OCCURS, WASTE OIL REEL			1	
TRANSFER GRILLE TH TEST HOLE (SUBSURFACE INVESTIGATION) UT THH TELEPHONE HAND HOLE UTC THK THICK, THICKNESS UTIL THR TOTAL HEAT REJECTION UTP THRU THROUGH UV TI TEMPERATURE INDICATION UWP TICHL TEMPERATURE INDICATION CONTROL (HIGH/LOW) TIEE TEMPORARY INGRESS/EGRESS EASEMENT V TIH TEMPERATURE INDICATION HIGH FOR VA	TURN-BACK. THE ROUTE INTO THE	WP	WORK POINT, WEATHER PROOF			1	
INVESTIGATION) UT THH TELEPHONE HAND HOLE UTC THK THICK, THICKNESS UTIL THR TOTAL HEAT REJECTION UTP THRU THROUGH UV TI TEMPERATURE INDICATION UWP TICHL TEMPERATURE INDICATION CONTROL (HIGH/LOW) TIEE TEMPORARY INGRESS/EGRESS EASEMENT V TIH TEMPERATURE INDICATION HIGH FOR VA	TM ZONE, WHEN TURN-BACK, IS	WPF WR	WATERPROOF, WATERPROOFING SWITCH CONTROL RELAY			1	
THH     TELEPHONE HAND HOLE     UTC       THK     THICK, THICKNESS     UTIL       THR     TOTAL HEAT REJECTION     UTP       THRU     THROUGH     UV       TI     TEMPERATURE INDICATION     UWP       TICHL     TEMPERATURE INDICATION CONTROL     UWP       TIEE     TEMPORARY INGRESS/EGRESS     V       TIH     TEMPERATURE INDICATION HIGH FOR     V	ALIGNED, UNITED STATES, COMMON TROUBLE	WRG	WALL RETURN GRILLE			1	
THK THICK, THICKNESS UTIL THR TOTAL HEAT REJECTION UTP THRU THROUGH UV TI TEMPERATURE INDICATION UWP TICHL TEMPERATURE INDICATION CONTROL (HIGH/LOW) TIEE TEMPORARY INGRESS/EGRESS EASEMENT V TIH TEMPERATURE INDICATION HIGH FOR VA	ULTRASONIC TESTING	WRR WSP	WALL RETURN REGISTER	1		1	
THR TOTAL HEAT REJECTION UTP THRU THROUGH UV TI TEMPERATURE INDICATION UWP TICHL TEMPERATURE INDICATION CONTROL (HIGH/LOW) TIEE TEMPORARY INGRESS/EGRESS EASEMENT V TIH TEMPERATURE INDICATION HIGH FOR VA	UNSHIELDED TWISTED PAIR UTILITY	WSR	WELDED STEEL PIPE, WET STANDPIPE WALL SUPPLY REGISTER	1		1	
TI TEMPERATURE INDICATION UWP TICHL TEMPERATURE INDICATION CONTROL (HIGH/LOW) TIEE TEMPORARY INGRESS/EGRESS EASEMENT V TIH TEMPERATURE INDICATION HIGH FOR VA	UNSHIELDED TWISTED PAIR CABLE	WSX	WARM SPRINGS EXTENSION			1	
TICHL TEMPERATURE INDICATION CONTROL (HIGH/LOW) TIEE TEMPORARY INGRESS/EGRESS EASEMENT V TIH TEMPERATURE INDICATION HIGH FOR VA	ULTRA VIOLET, UNDERVOLTAGE UPPER WORKING POINT	WT WTG	WEIGHT WALL TRANSFER GRILLE	1		1	
TIEE TEMPORARY INGRESS/EGRESS EASEMENT V TIH TEMPERATURE INDICATION HIGH FOR VA		WTM	WAYSIDE TRIP MODULE			1	
TIH TEMPERATURE INDICATION HIGH FOR VA	- v -	ww	WATER VALVE WIREWAY, WING WALL			1	
	VENT, VOLTS, DESIGN VELOCITY (MPH)	WWF	WELDED WIRE FABRIC			1	
VAC	VOLT AMPERES					1	
	VOLTS ALTERNATING CURRENT, VACUUM					1	
	DESIGNED BY		Skanska	1		1	
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TAL AND VERTICAL ALIGNMENT NOMENCLATURE

ISTANCE OF SHIFTED PC TO THE TS ISTANCE OF SHIFTED PT TO THE ST STH OF CIRCULAR CURVE FROM OR SC TO CS COMPOUND SPIRAL FROM CS TO SC SPIRAL FROM TS TO SC SPIRAL FROM CS TO ST TWEEN CIRCLES AT POINT OF COMPOUND

OM INITIAL TANGENT TO PC OF THE RCLE OF SPIRALIZED CURVE OM INITIAL TANGENT TO PT OF THE RCLE OF SPIRALIZED CURVE CIRCULAR CURVE

ISTANCE FROM TS TO PI ISTANCE FROM ST TO PI CHANGE FROM TANGENT TO SPIRAL ISTANCE AT THE SC

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RAL ANGLE OF THE SPIRALIZED CURVE

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IGLE OF SPIRAL LENGTH LB1 OR SPIRAL FIRST SPIRAL IN SPIRALIZED CURVE

IGLE OF SPIRAL LENGTH L82 OR SPIRAL SECOND SPIRAL IN SPIRALIZED CURVE

NGLE OF COMPOUND SPIRAL OR SPIRAL ANGLE FROM CS TO SC NOUT DESIGNATION AL TURNOUT

AMEND AND R Any action shown above is s the contract and does not r of any of its obligations including design a Contract Ng.:	N TAKEN CTIONS NOTED ESUBMIT abject to the terms of elieve the contractor under the contract
LINE, TRACK, STATIONS, AND SYSTEMS	CADD FILENAME C700-S-DL-X203.dwg
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GENERAL ABBREVIATIONS SHEET 4 OF 4	CONTRACT NO. C700 REV. 1
	AREA CODE SHEET NO. PAGE NO. DL X203 0006

# PURPOSE OF SURVEY:

THE PURPOSE OF THIS SURVEY IS TO PROVIDE HORIZONTAL AND VERTICAL CONTROL FOR RIGHT-OF-WAY ENGINEERING, DESIGN, AND CONSTRUCTION OF THE BAY AREA RAPID TRANSIT (BART) EXTENSION BY THE SANTA CLARA VALLEY TRANSPORTATION AUTHORITY (VTA), TO RUN SOUTHERLY FROM THE UNION TERMINUS OF BART'S WARM SPRINGS EXTENSION APPROXIMATELY ELEVEN MILES ALONG THE UNION PACIFIC RAILROAD RIGHT-OF-WAY, THEN SUBSURFACE WESTERLY THROUGH DOWNTOWN SAN JOSE UNDER SANTA CLARA STREET, THEN NORTHERLY TO AND ALONG THE CALTRAIN RIGHT-OF-WAY TO THE INTERSECTION OF LAFAYETTE STREET.

# BASIS OF COORDINATES AND BEARINGS:

COORDINATES FOR CONTROL POINTS AND BEARINGS SHOWN ON THIS SURVEY ARE BASED HORIZONTALLY ON THE CCS83, ZONE 3, EPOCH 1998.5 (SEE NOTE #1 ON THIS SHEET), AND VERTICALLY ON NAVD88, DEVELOPED BY THE PERFORMANCE OF SURVEYS DESCRIBED AS FOLLOWS:

#### PRIMARY GPS SURVEY

THE PRIMARY GPS NETWORK CONSISTING OF 49 POINTS WAS OBSERVED TO FGCS ORDER B STANDARDS. THE GPS SURVEY WAS CONDUCTED USING FOUR TRIMBLE NAVIGATION 4700 AND ONE TRIMBLE NAVIGATION 4000SSI DUAL FREQUENCY GEODETIC RECEIVERS. STATIC SURVEYING TECHNIQUES WERE USED FOR MEASURING ALL BASELINE VECTORS, INSTRUMENT HEIGHTS WERE MEASURED IN METERS AND IN FEET, THESE VALUES WERE REDUCED AND COMPARED IN THE FIELD PRIOR TO LEAVING THE STATION, ALL STATIONS WERE OCCUPIED AT LEAST TWICE ON INDEPENDENT DAYS. IN GENERAL, GPS DATA WAS LOGGED FOR AT LEAST ONE HOUR; HOWEVER UP TO 4 HOURS OF DATA WAS COLLECTED FOR THE LONGER BASELINES.

ALL BASELINE VECTORS WERE PROCESSED USING THE TRIMBLE GEOMATICS OFFICE, (VERSION 1.50) SOFTWARE FIXED BIAS SOLUTIONS WERE OBTAINED FOR ALL BASELINES USING INTERNATIONAL GPS SERVICE FOR GEODYNAMICS (IGS) PRECISE ORBITS FOR ALL VECTOR COMPUTATIONS. BASELINE

A MINIMALLY CONSTRAINED LEAST SQUARES ADJUSTMENT WAS PERFORMED ON THE PRIMARY GPS NETWORK TO ENSURE THAT FGCS ORDER-B STANDARDS WERE ACHIEVED. THE GPS BASELINES OF THE PRIMARY GPS NETWORK WERE ADJUSTED USING MICROSEARCH GEOLAB 2001 (VERSION 2001.9.20.0). THE GEODETIC COORDINATES (LATITUDE, LONGITUDE AND ELLIPSOIDAL HEIGHT) OF CORS STATION ZOA1 PROVIDED THE MINIMAL CONSTRAINT. THE ADJUSTMENT COMPRISED OF 49 STATIONS AND 408 BASELINE VECTOR COMPONENTS (136 BASELINES) AND WAS BASED ON NAD83 (CORS) AT THE 2003.05 EPOCH.

#### CONVENTIONAL TRAVERSING

PRECISE CONVENTIONAL MEASUREMENTS WERE PERFORMED ON SECONDARY CONTROL INSTALLED TO DENSIFY THE PRIMARY GPS NETWORK, THEREBY ESTABLISHING A NETWORK OF CONTROL THROUGHOUT THE PROJECT AREA. FGCS FIRST ORDER CLASS I STANDARDS AND PROCEDURES WERE ADOPTED FOR THE SECONDARY CONTROL. A LEICA TC2002 WAS USED FOR ALL DIRECTION, ZENITH ANGLE AND SLOPE DISTANCE MEASUREMENTS. THIS INSTRUMENT WAS CALIBRATED LOCALLY FOR SCALE AND ZERO ERROR (PRISM CONSTANT) BY COMPARING GPS DERIVED DISTANCES WITH THE REDUCED HORIZONTAL DISTANCES. RELATIVE HUMIDITY AND TEMPERATURE OBSERVATIONS WERE OBSERVED DURING THE FIELD WORK. ATMOSPHERIC PRESSURE DATA WERE OBTAINED FROM SAN JOSE AIRPORT.

#### PRECISION LEVELING

FGCS STANDARDS, SPECIFICATIONS AND PROCEDURES FOR SECOND ORDER CLASS II WERE ADOPTED FOR VERTICAL CONTROL SURVEYS. EXISTING NGS VERTICAL CONTROL WAS DENSIFIED TO ESTABLISH NEW BENCHMARKS THROUGHOUT THE PROJECT AREA. THE SELECTED PROJECT VERTICAL DATUM IS NAVD88

A LEICA NA3003 DIGITAL LEVEL WAS USED FOR ALL PRECISION LEVELING. THE FGCS MODIFIED DOUBLE SIMULTANEOUS (MOS) PROCEDURE WAS USED, ALLOWING FOR TWO PARTIALLY INDEPENDENT HEIGHT DIFFERENCE MEASUREMENTS AT EACH SETUP.

#### NETWORK ADJUSTMENT AND POST ANALYSIS

THE LEAST SQUARES ADJUSTMENT WAS PERFORMED ON THE NADB3 (CORS) DATUM, EPOCH OF 2003.05. ALL GPS VECTORS, ELEVATION DIFFERENCES, AND CONVENTIONAL MEASUREMENTS WERE COMBINED IN A SINGLE UNIFIED ADJUSTMENT ALLOWING FOR THE MOST RIGOROUS AND RELIABLE RESULTS. THE GEOID99 GEOIDAL MODEL WAS USED TO FACILITATE THE GENERATION OF ORTHOMETRIC HEIGHTS (ELEVATIONS) FOR ALL CONTROL POINTS NOT OBSERVED THROUGH PRECISION LEVELING. THE COMBINED ADJUSTMENT WAS PERFORMED USING EVERY OBSERVATION TO ENSURE THE MOST RIGOROUS SOLUTION. CERTAIN OBSERVATIONS WERE DE-WEIGHTED IN THE LEAST SQUARES ADJUSTMENT.

THE VTA/BART PROJECT IS BASED ON NAD83 (CORS) EPOCH OF 1998.5. CONSEQUENTLY, THE RESULTS OF THIS ADJUSTMENT WERE TRANSFORMED FROM NAD83 (CORS), EPOCH OF 2003.05 BACK TO NAD83 (CORS), EPOCH 1998.5 USING THE NATIONAL GEODETIC SURVEY SOFTWARE HTDP (HORIZONTAL TIME-DEPENDENT POSITIONING SOFTWARE - VERSION 2.7).

# NOTES:

1) ALL COORDINATES AND DISTANCES SHOWN ARE IN SURVEY FEET VALUES (GRID). FOR THE LENGTH 1) ALL COORDINATES AND DISTANCES SHOWN ARE IN SURVET PLET VALUES (GRD). FOR THE LENGTH OF THIS PROJECT, AN AVERAGED COMBINED SCALE FACTOR WAS USED FOR CONVERTING RECORDED MAPS AND DEEDS TO GRID. TO OBTAIN GROUND DISTANCES, MULTIPLY EXPRESSED DISTANCES BY 1.000053330.
2) STATIONS SUAA, WINT, MHCB, ZOA1, LUTZ, CHAB, M 874, BART 205R, & BART 206 WERE USED AS THE HORIZONTAL ADJUSTMENT CONSTRAINTS FOR THIS PROJECT (COORDINATES AND DESCRIPTIONS ON PG 2). 3) STATIONS QQ 453, M 874, N 1447, B 875, C 1121 RESET, Z 111 RESET, Q 591 RESET, N 874, K 179, VASONA, I 19=95 RESET, C 1371, L 1447, AND HPGN D CA SAN PEDRO WERE USED AS THE VERTICAL ADJUSTMENT CONSTRAINTS FOR THIS PROJECT (COORDINATES AND DESCRIPTIONS ON PAGE 2). 4) ALL BART MONUMENTS, BERY, FERN, AND VTA 171A ARE FND WITH VARYING DIAMETER (SEE PAGE 5). 5) A RECORD OF SURVEY IS BEING FILED PURSUANT TO PROVISION (d) OF SECTION 8762, OF THE PROFESSIONAL LAND SURVEYORS ACT.

6) THE HYPERLINK TO THE NGS WEBSITE: HTTP://WWW.NGS.NOAA.GOV/CGI-BIN/DS\_DESIG.PRL

# BENCHMARKS:

THE ELEVATIONS SHOWN HEREON ARE COMPILED FROM DIFFERENTIAL LEVEL LOOPS BASED UPON THE FOLLOWING SOURCES

NGS "OD 453" BRASS DISK IN TOP OF CONC MON LOCATED IN CITY OF SAN JOSE NEAR THE JUNCTION OF US HIGHWAY 101 AND BLOSSOM HILL RD (STATE HWY 82) (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 190.83" DATUM: NAVD88

NGS "N 1447" METAL ROD LOCATED IN CITY OF SAN JOSE AT THE INTERSECTION OF UNION PACIFIC RAILROAD AND OAKLAND ROAD, (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 52.37 DATUM: NAVDRR

CGS "B 875" BRASS DISK LOCATED IN CITY OF SAN JOSE AT THE INTERSECTION OF UNION PACIFIC RAILROAD AND WEST JULIAN STREET. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 90.67' (RECORD) 90.585 MEASURED DATUM: NAVDER

CGS "C 1121 RESET" BRASS DISK LOCATED IN CITY OF SAN JOSE, APPROX 0.1 MILE NW OF THE JUNCTION OF HORNING STREET, AT THE CRISTINA WAREHOUSE COMPANY (1045 10TH STREET). (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 61.79' DATUM: NAVD88

CGS "Z 111 RESET" BRASS DISK LOCATED IN CITY OF SAN JOSE, IN THE TOP OF THE NE END OF THE SE CONC ABUTMENT OF A CONC BRIDGE OVER W TAYLOR STREET (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 78.34' (RECORD) 78.261 MEASURED DATUM: NAVD88

CGS "Q 591 RESET" BRASS DISK LOCATED IN WARM SPRINGS, APPROX 0.5 MILE SE'LY ALONG THE UNION PACIFIC RAILROAD FROM THE JUNCTION OF WARREN AVE, (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 45.84 DATUM: NAVD88

CGS "N 874" BRASS DISK LOCATED IN WARM SPRINGS, IN TOP OF THE SW END OF THE NW ABUTMENT OF THE MISSION BOULEVARD UNDERPASS. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 48.33' (RECORD) 48.256 MEASURED DATUM: NAVD88

CAGS "K 179 RESET" BRASS DISK LOCATED IN CITY OF MILPITAS, IN THE TOP OF THE SE CONC WALL OF AN 8 BY 9 FOOT CONC CATCH BASIN. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 51.91 DATUM: NAVD88

CADH "VASONA" SURVEY DISK LOCATED IN TOP OF CONC MON, LOCATED IN LOS GATOS AT THE INTERSECTION, OF STATE HWY 9 AND UNIVERSITY AVE, LOCATED AT VASONA DAM. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 307.67 DATUM: NAVD88

NGS "I 19=96 RESET" DISK LOCATED IN CITY OF SAN JOSE, AT THE INTERSECTION OF 4TH STREET AND E SANTA CLARA STREET., IN A SQUARE CONC BASE. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 80.48' DATUM NAVORS

NGS "C 1371" DISK LOCATED IN CITY OF MILPITAS, IN TOP OF THE SE END OF THE NE HEADWALL FOR A 10 BY 15 FOOT CULVERT FOR FLOOD CONTROL. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 16.11" DATUM: NAVD88

NGS "L 1447" DISK LOCATED IN CITY OF SAN JOSE, AT THE INTERSECTION OF COLEMAN AVE AND INTERSTATE HWY 880, IN A CONC WALKWAY OF THE NW ABUTMENT OF COLEMAN AVENUE OVERPASS OF THE INTERSECTION HWY 880. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 77.34' (RECORD) 77.232 MEASURED DATUM: NAVD88

CA-085 "HPGN D CA SAN PEDRO" ALUM DISK LOCATED IN CITY OF SAN JOSE, NEAR THE COUNTY CIVIC CENTER, ABOUT 1 MILE SW OF THE JUNCTION OF US HWY 101 AND INTERSTATE HWY 880. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 60.6' DATUM: NAVD88

DATUM: NAD83

MHC8 = "MT HAMILTON BARD CORS ARP" LOCATED IN CALIFORNIA, THIS STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION. (FOR MORE DETAIL OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) N = 1948852.78' E = 6229522.73' DATUM: NAD83

DATUM: NAD83

LUTZ = "LUTZ L 1 PHASE CENTER" LOCATED IN CALIFORNIA, THIS STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION. (FOR MORE DETAIL OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) N = 1929811.75' E = 6164513.21' DATUM: NAD83

CHAB = "CHABOT BARD CORS ARP" LOCATED IN CALIFORNIA, THIS STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION. (FOR MORE DETAIL OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) N = 2090178.88' E = 6093358.53' DATUM: NAD83

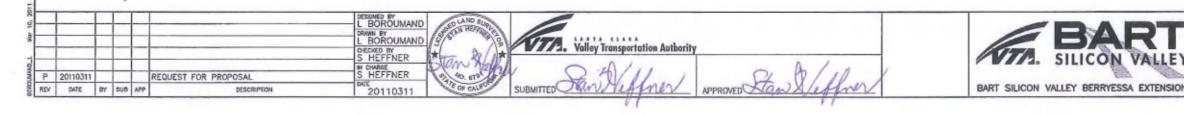
DATUM: NAD83 ELEVATION = 15.808 MEASURED

"BART 205R" N = 1993049.481 E = 6154314.945 ELEVATION = 90.075 (MEASURED) "BART 206" N = 1991626.622 E = 6150622.920 ELEVATION = 20.837 (MEASURED) "BART 268" N = 1993826.157 E = 6149797.161 ELEVATION = 22.630 (MEASURED)

"BART 48" N = 1996507.182 E = 6148768.892 ELEVATION = 29.975 (MEASURED)

"BART 266" N = 1997825.965 E = 6148258.986 ELEVATION = 40.344 (MEASURED)

"RART 264" N = 2001811.723 E = 6146682.353 ELEVATION = 45.303 (MEASURED)



1\_DU-013\_RFC\_R1\_ SCVWD 66in Drawings 20130117.pdf

# CONTINUOUSLY OPERATING REFERENCE STATION (CORS):

SUAA = "SUAA STANFORD CORS ARP" LOCATED IN CALIFORNIA, THIS STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION. (FOR MORE DETAIL OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) N = 1982253.27' E= 6075814.66' DATUM: NAD83

WINT = "WINT WINTON CORS GRM" LOCATED IN CALIFORNIA, THIS STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION. (FOR MORE DETAIL OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) N = 2064265.65' E = 6086755.33'

ZOA1 = "OAKLAND 1 CORS ARP" LOCATED IN CALIFORNIA, THIS STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION. (FOR MORE DETAIL OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) N = 2023759.45' E = 6122181.68

# HIGH PRECISION

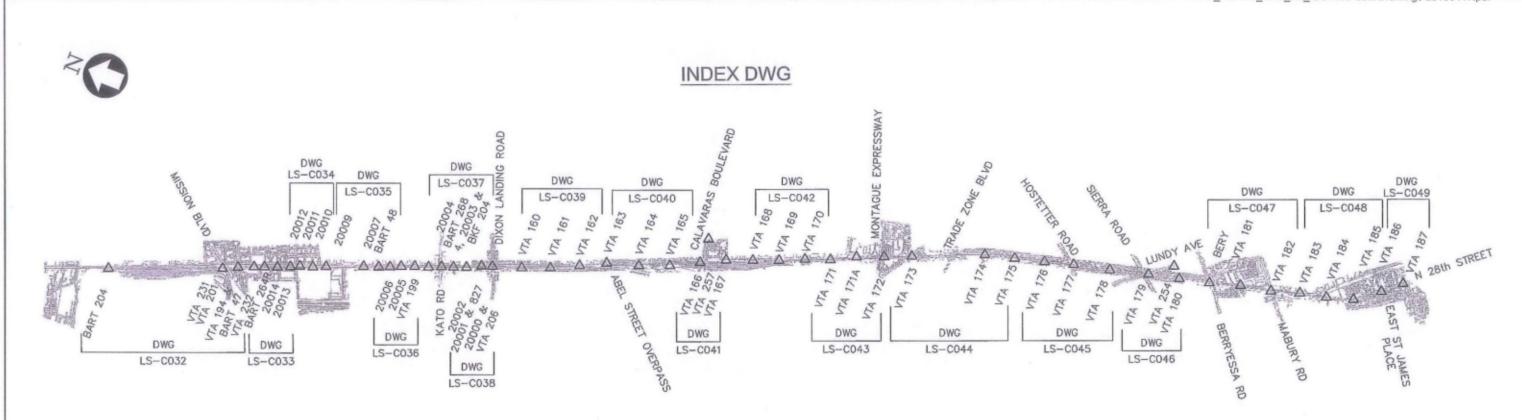
# GEODETIC NETWORK (HPGN):

NGS "M 874" THE STATION IS LOCATED IN MILPITAS CALIFORNIA, ABOUT 0.2 MILES N OF STATE HWY 237, ALONG THE UNION PACIFIC RAILROAD. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) N = 1984336.90' E = 6153198.63'

# BAY AREA RAPID TRANSIT WSX CONTROL POINTS

"BART 47" N = 2002487.559 E = 6146417.936 ELEVATION = 47.810 (MEASURED)

	PRESCRIPTIVE	
	LINE, TRACK, STATIONS AND SYSTEMS	CADD FILENAME C700-S-LS-C030.dwg
		SIZE SCALE D NOT TO SCALE
1	SURVEY CONTROL DATA	CONTRACT NO. C700 P
	NOTES	AREA CODE SHEET NO. PAGE NO. LS CO30 0183



## NOTE:

ALL VTA MONUMENTS SET OR FOUND ARE 2" DIAMETER ALUMINUM DISK (EXCEPT AS NOTED) STAMPED "SANTA CLARA VALLEY TRANSPORTATION AUTHORITY" WITH MONUMENT NUMBER (XXX) AND 1/8" DIAMETER DRILLED HOLE.



COMBINED SCALE FACTOR (PROJECT AVERAGE) GROUND ---> GRID CONVERSIONS: MULTIPLY DISTANCES BY 0.999946673

# VERTICAL CONTROL POINTS

#### VTA 363

AT MISSION - SET VTA ALUMINUM CAP 363 FLAT IN EAST WALK OF KATO RD 1.0' WEST OF HANDRAIL OVER NORTH ABUTMENT FOR ROADWAY BRIDGE OVER MISSION BLVD ELEVATION = 51.088

#### VTA 364

AT KATO RD - SET VTA ALUMINUM CAP 364 FLAT IN CONCRETE FOUNDATION FOR POWER LINE TOWER. SECOND TOWER SOUTH OF KATO RD 1.0' (FROM THE EAST) AT EAST SIDE OF 1-880 ELEVATION = 10.144

#### VTA 365

AT ABEL - SET VTA ALUMINUM CAP 365 IN VERTICAL FACE OF COLUMN, IN WEST FACE OF NORTH COLUMN OF EAST BENT OF BRIDGE FOR ABEL CROSSING RR R/W 4' ABOVE EXISTING GRADE \*\*\* ELEVATION = 17.505

#### VTA 366

AT CALAVERAS - SET VTA ALUMINUM CAP 366 IN VERTICAL FACE OF COLUMN, IN WEST FACE OF NORTH COLUMN OF EAST BENT OF BRIDGE FOR CALAVERAS CROSSING RR R/W 1.8' ABOVE EXISTING GRADE \*\*\* ELEVATION = 22.742

		20110311 DATE	87	SUB APP	REQUEST FOR PROPOSAL CESCRIPTION	Designed Br L BOROUMAND CREATE BY S HEFFNER HI CHARGE S HEFFNER DATE S HEFFNER DATE S HEFFNER DATE S HEFFNER DATE S HEFFNER DATE S HEFFNER DATE S DATE S DAT	BART
8	NEV	DHIE	01	SUB APP	DESCRIPTION	20110311 SUBMITTED ALLEY APPROVED AND WALL THE	DANT



PRESCRIPTIVE	
LINE, TRACK, STATIONS AND SYSTEMS	CADD FILENAME C700-S-LS-C031.dwg
	D NOT TO SCALE
SURVEY CONTROL DATA	CONTRACT NO. C700 REV. P
INDEX SHEET	AREA CODE SHEET NO. PAGE NO. LS CO31 0184

\*\*\* CAP HAS 1/4" X 20" X 1" SET SCREW THAT CAN BE THREADED OUT TO SET THE ROD UPON (REQUIRED 1/8" ALLEN WRENCH). PLEASE THREAD BACK INTO CAP WHEN FINISHED. DO NOT OVER TIGHTENI CAP HAS A SCRIBED LINE THAT CORRESPONDS TO THE ELEVATION OF THE TOP OF SET SCREW FOR USE IF YOU CAN'T LOOSEN THE SET SCREW.

VTA 368 AT CAPITOL - SET VTA ALUMINUM CAP 368 IN VERTICAL FACE OF COLUMN, IN WEST FACE SECOND BENT EAST OF RR R/W 4' ABOVE EXISTING GRADE \*\*\* ELEVATION = 57.969

AT CAPITOL - SET VTA ALUMINUM CAP 367 IN VERTICAL FACE OF COLUMN, IN EAST FACE OF SOUTH COLUMN OF THIRD BENT WEST OF RR R/W (BENT FOR LIGHT RAIL AERIAL STRUCTURE) 4' ABOVE EXISTING GRADE \*\*\* ELEVATION = 56.309

VTA 367



SUBMITTED Car

APPROVED

REQUEST FOR PROPOSAL

DESCRIPTION

20110311

P 20110311

REV DATE BY SUB APP

	PRESCRIPTIVE	
BART	LINE, TRACK, STATIONS AND SYSTEMS	CADD FILENAME C700-S-LS-C047.dwg SIZE SCALE D 1" = 40'
BART SILICON VALLEY	SURVEY CONTROL DATA SHEET 16 OF 18	CONTRACT NO. C700 P AREA CODE SHEET NO. PAGE NO. LS C047 0200

OWNER / OPER	PATOP	ABBREVIATIONS			NPOLS			1 DU
ACFC & WCD	ALAMEDA COUNTY FLOOD CONTROL &	ABN	ABANDON	EXISTING	PROPOSED		1. CONTRACTOR SHALL CONTACT UND	FRGROUND SERVICE
	WATER CONSERVATION DISTRICT	BFS	BART FACILITY STANDARDS	100		STORM DRAIN INLET	BEFORE BEGINNING CONSTRUCTION	
ACWD	ALAMEDA COUNTY WATER DISTRICT	CIR	CIRCLE	53		ELECTRICAL BOX / VAULT	2. ALL EXISTING UTILITIES, WHETHER	OR NOT SHOWN O
AREMA	AMERICAN RAILWAY ENGINEERING	DBC	DIRECT BURIED CABLE	63	Ē	ELECTRICAL MANHOLE	NOTED OTHERWISE.	
	MAINTENANCE-OF-WAY ASSOCIATION	DFM	DISTRIBUTION FEEDER MAIN	1	0		3. THE PROPOSED PRIVATE UTILITY R	
AIR	AIR PRODUCTS	FT	FEET	7-/ 10+	*	FIRE HYDRANT	THE PRIVATE UTILITY OWNER WILL	PERFORM THEIR F
AT&T	AT&T	EX	EXISTING	0		MCI TEST POINT	4. THE PROPOSED RELOCATED UTILITY	IES, AS SHOWN ON
CHEV	BAY AREA RAPID TRANSIT CHEVRON	FL	FLOW LINE	<b>3</b>		MONITORING WELL	5. FOR RIGHT-OF-WAY BOUNDARIES	AND UTILITY EASEM
CMC	COMCAST	FM	FORCE MAIN	0		NATURAL GAS VALVE	6. PRIOR TO TRENCHING OVER OR D	IRECTLY ADJACENT
COF	CITY OF FREMONT	FND	FOUND	23		RAILROAD CONTROL BOX	THE SCVWD PIPELINE. TRENCHING ONLY.	
COM	CITY OF MILPITAS	HP	HIGH PRESSURE	/	-		UNCT.	
CSC	CITY OF SANTA CLARA	JT LF	JOINT TRENCH	⊜/0	0	SANITARY SEWER MANHOLE	<ol> <li>CITY OF SAN JOSE UTILITIES SHAL AND STANDARD PLANS.</li> </ol>	L BE CONSTRUCTE
CSJ	CITY OF SAN JOSE	MULT	LINEAR FEET MULTIPLE	0	• co	SANITARY SEWER CLEANOUT	$\sim$	
CSJ-FO	CITY OF SAN JOSE SMART FIBER	NIC	NOT IN CONTRACT	0/0	•	STORM DRAIN MANHOLE	8. HORIZONTAL DATA COORDINATES	
ICG KIND	ICG COMMUNICATIONS, INC. KINDER MORGAN, INC.	NO / NOS	NUMBER / NUMBERS	1		SOLAR PANEL POLE	0000000	
LEVEL 3 / L3	LEVEL (3) COMMUNICATIONS	PL	PIPE LINE	2	0			
MCI	MCI, INC.	PROP	PROPOSED	·@	D	TELEPHONE MANHOLE		
MCWD / MSD	MILPITAS CITY WATER DISTRICT /	RCP	REINFORCED CONCRETE PIPE	53		TELEPHONE JUNCTION BOX		
none y moo	MILPITAS SANITARY DISTRICT -	RR	RAILROAD	57		UTILITY MARKER		
	(CITY OF MILPITAS)	SDMH	STORM DRAIN MANHOLE	5-1		UPRR SIGNAL BOX		
MFN	METROMEDIA FIBER NETWORK, INC.	SSMH	SANITARY SEWER MANHOLE	53		WATER METER		
MFS	MFS WORLDCOM	TMH	TELEPHONE MANHOLE	LJ				
OWT	ONE WORLD TELECOMMUNICATIONS	TP	TRANSMISSION PRESSURE	0/00	$\bowtie$	WATER VALVE		
PG&E	PACIFIC GAS & ELECTRIC	TRANS	TRANSFORMER/TRANSITION	11	111	ABANDONED UTILITY		
QWEST	QWEST COMMUNICATIONS INC.	TBD	TO BE DETERMINED	1	x	REMOVED UTILITY		
SBC	SBC COMMUNICATIONS, INC.	UNK	UNKNOWN	*	٠	POTHOLE LOCATION		
SCC SCSD	SANTA CLARA COUNTY SANTA CLARA SEWER DISTRICT	UTIL	UTILITY	1	V			
SCVTA / VTA	SANTA CLARA VALLEY	WBO	WORK BY OTHERS	-0-		UTILITY POLE		
5011A / 11A	TRANSPORTATION AUTHORITY			-	-	UTILITY CAP		
SVRT	SILICON VALLEY RAPID TRANSIT				$\rightarrow$	POLE ANCHOR		
SCVWD	SANTA CLARA VALLEY WATER DISTRICT			PV	PV	AIR RELEASE VALVE INSIDE PRECAST VAULT		
SFWD	SAN FRANCISCO WATER DEPARTMENT							
SJWC	SAN JOSE WATER COMPANY			S	S	TELEMETRY CABLE SPLICE INSIDE PRECAST VAULT		
SPRINT / SPR	SPRINT			©	©	CORROSION CONTROL TEST STATION		
SVP	SILICON VALLEY POWER	UTILITY MATERIAL				CORROSION CONTROL TEST STATION		
USD	UNION SANITARY DISTRICT	ABS	ACRYLONITRILE-BUTADEINE-STYRENE					
UPRR XO	UNION PACIFIC RAILROAD XO COMMUNICATIONS	AC, ACP	ASBESTOS CEMENT PIPE	UTILITY LE	GEND			
20	X0 COMMONICATIONS	ACWP	ASBESTOS CEMENT WATER PIPE	EXISTING		PROPOSED		
UTILITY TYPE		CD	CONCRETE DUCT			c	ATV	CATV LINE
CATV	CABLE TELEVISION	CIP	CAST IRON PIPE		E		E	BURIED ELECTRICA
COMM	COMMUNICATION(S)	CPC	CONCRETE PIPE CORRUGATED METAL PIPE		ATS/		-	
ELEC	ELECTRICAL	CSP	CORRUGATED STEEL PIPE		ANT V		-0	BURIED FIBER OP
FOC, FO	FIBER OPTIC CABLE	DICL	DUCTILE IRON CEMENT LINED		G		G	GAS LINE
G	GAS LINE	DIP	DUCTILE IRON PIPE		JT		π	JOINT TRENCH LIN
NIT	NITROGEN	HDPE	HIGH DENSITY POLYETHYLENE		NIT	N	ит	NITROGEN LINE
OHE	OVERHEAD ELECTRICAL	IP	IRON PIPE					
OHT PL	OVERHEAD TELEPHONE PIPE LINE	PE	POLYETHYLENE PIPE		JHE	0	HE	OVERHEAD ELECTR
PP	POWER POLE	PLA / PL	PLASTIC		PT		PT	PETROLEUM LINE
PT, PETRO	PETROLEUM LINE	PVC	POLYVINYL CHLORIDE	1			RS	RIPARIAN SETBACK
RW	RECYCLED WATER	RBC	REINFORCED BOX CULVERT		ss 22		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SANITARY SEWER
SD	STORM DRAIN	RCP	REINFORCED CONCRETE PIPE					STORM DRAIN LIN
SL	STREET LIGHT	SOM	SOMATIC COATED PIPE		30		30	STORM DRAIN LIN
SS T, TEL, TELE	SANITARY SEWER BURIED TELEPHONE	STL	STEEL		E		SL	STREET LIGHT LIN
TS	TRAFFIC SIGNAL	VCD	VITRIFED CLAY DUCT		T		т	BURIED TELEPHON
W	WATER	VCP	VITRIFIED CLAY PIPE		- w		w	WATER LINE
		DESIGNED BY		Skanska	1			
		J. STREEPER	REFERENCES OF	Shimmich	K 1436 Colifornia Milpitos, Californi	Girde		LINE, TR
		J. STREEPER CHECKED BY		Herzog	A Joint Venture		DARI	
1 20130117	READY FOR CONSTRUCTION	B. WAGNER IN CHARGE	the there		IOD Lookur	od, Andrews	SILICON VALLE	Y SUPPLEME
0 20121019	READY FOR CONSTRUCTION	J. STREEPER			A News	an, inc.		
REV DATE BY 1	SUB APP DESCRIPTION	20130117	SUBMITTED		_ APPROVED	Ray Hallrunth	BART SILICON VALLEY BERRYESSA EXTENSIO	0.41

GROUND SERVICE ALERT (USA) TO FIELD VERIFY TYPE AND LOCATION OF UTILITIES IND FABRICATING MATERIALS FOR USE IN EXCAVATED AREAS.

NOT SHOWN ON THE DRAWINGS, SHALL BE PROTECTED AT ALL TIMES UNLESS

OCATIONS ARE FOR INFORMATION ONLY AND ARE NOT PART OF THIS CONTRACT. ERFORM THEIR FINAL DESIGN AND RELOCATIONS.

, AS SHOWN ON THESE UTILITY DRAWINGS, ARE SCHEMATIC IN NATURE.

D UTILITY EASEMENTS REFER TO RIGHT-OF-WAY DRAWINGS.

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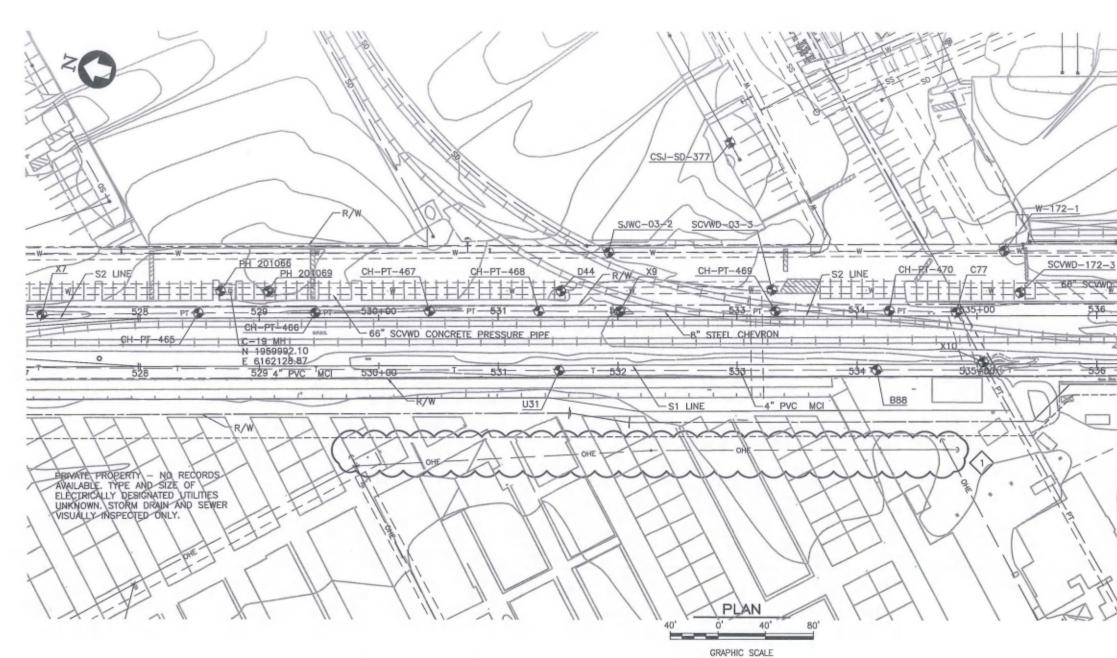
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CTLY ADJACENT TO ANY SCWUD PIPELINE, CONTRACTOR MUST POTHOLE TO VERIFY THIN 1 FOOT OF COVER OVER THE SCWUD PIPELINE SHALL BE BY HAND METHOD

BE CONSTRUCTED ACCORDING TO CITY OF SAN JOSE STANDARD SPECIFICATIONS

STATIONING ON THE PIPELINE ARE TO THE CENTERLINE OF PIPE.

	PROPOSED UTILITI	ES LEGENI	D			
	LD-G-1	U	TILITY COD	E		
ATV LINE						
URIED ELECTRICAL LINE						
URIED FIBER OPTIC LINE						
AS LINE	Sent Cherry Veller Th		1			
DINT TRENCH LINE	Santa Clara Valley Tr NO EXCEPT			1		
ITROGEN LINE	MAKE COR					
VERHEAD ELECTRICAL LINE	AMEND AN Any action shown above			of		
ETROLEUM LINE	the contract and does not relieve the contractor					
PARIAN SETBACK	of any of its obligations under the contract including design and detailing. Contract No.: DB11002F By 2 Date: 2/26/13					
ANITARY SEWER LINE						
TORM DRAIN LINE						
TREET LIGHT LINE	angen Union		7-7	-		
URIED TELEPHONE LINE						
ATER LINE						
LINE, TRACK, STATIO	NS AND SYSTEMS	CADO FILENA	VE S-DL-UOO	1 dwa	-	
		SIZE SCALE	NTS	Tung	_	
SUPPLEMENTAL UTILITY N	INTES ABBREVIATIONS	CONTRACT NO		REV.		
JOIT LEWEITINE OTILITT				-		
AND SYN	IBOLS	AREA CODE :	U001	PAGE		



l						PC	DTHOLE DA	TA TABL	E								_
ſ	HOLE I	NO		UTIL	ITY	NORTHING	EASTING	SURFACE	DEPTH OF	ELEVATION	FLOW LINE			PO	OTHOLE DA	TA TABL	E
				TYF				ELEVATION	COVER(FT)	AT TOP OF UTILITY	ELEVATION	HOLE NO	UTILITY	NORTHING	EASTING	SURFACE	DEF
ľ	D4	4		W		1959723.36	6162195.21	86.33	7.09	79.24	-						
	SCVWD-0	03-	3	W		1959552.01	6162238.70	85.71	6.42	79.29	-	CH-PT-465	8" CHEVRON PT	1960013.80	6162104.57	84.19	
	SJWC-0	3-2	2	W		1959692.42	6162236.18	84.99	6.33	78.66	-	CH-PT-466	8" CHEVRON PT	1959918.96	6162128.30	84.14	
	U31	-		T		1959709.13	6162130.26	82.78	3.44	79.34	-	CH-PT-467	8" CHEVRON PT	1959826.11	6162152.60	84.21	
L	X7			P1		1960140.67	6162071.89	84.03	4.53	79.50	-	CH-PT-468	8" CHEVRON PT	1959737.42	6162174.44	84.48	
L	X9			P		1959671.99	6162190.21	84.54	5.23	79.31	-	CH-PT-469	8" CHEVRON PT	1959545.22	6162222.06	85.48	
Ļ	X10	_		P		1959367.00	6162222.28	83.15	4.12	79.03	-		10" STORM DRAIL		6162349.55	83.30	1
- H	CH-PT-	_		P1		1959453.38	6162245.14	85.44	5.92	79.52	-	B88	FOC	1959451.84	6162194.52	82.33	
- H	PH 201	_			PP W	1960000.17	6162126.90	-	-	78.54	-	C77	PT	1959398.58		85.71	
- 14	PH 201				PP W	1959961.35	6162136.39	-	-	78.59	-	SCVWD-172-3	5 W		6162286.09	85.31	
- 14	PH 201				PP W	1959185.25	6162330.46	-	-	80.45	-	U32	Т	1959080.51	6162286.19	83.18	
L	PH 201	188	66	" C	PP W	1959146.52	6162340.42	-	-	80.33	-	W-172-2	W	1958509.92	6162567.53	83.96	
								J 04 J 04	CACCIOTTI AMN BY CACCIOTTI CACCIOTTI ECKED BY	POTESSIN POTESI	St and	S	O 1411 O 61	California Circle ze, California 95035 int Venture			
-	20130117	1				FOR CONSTRUC		IN	CHARGE	Kta	and the	-Hoft		& Newmann, Inc.	T-Y-LIN INTERNATI	ONAL	
0	20121019		-		READY	FOR CONSTRUC	TION		STREEPER	- Chile	3/	1.01		A TRO Y BATA CONSULATE	. / //	C. B. K.	
ΕV	DATE	BY	SUB	APP		D	ESCRIPTION		20130117	A CHE	SUBMITT	ED _ Mellon	APP	ROVED	Adamth		



SURFACE DEPTH OF ELEVATION FLOW LINE ELEVATION COVER(FT) AT TOP OF ELEVATION

UTILITY

79.38

79.48 79.31

77.94

78.07

72.64

78.64

77.13

80.36 79.69 80.31 79.64

80.55 79.72

78.71

78.81 78.65

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COVER(FT)

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3.83

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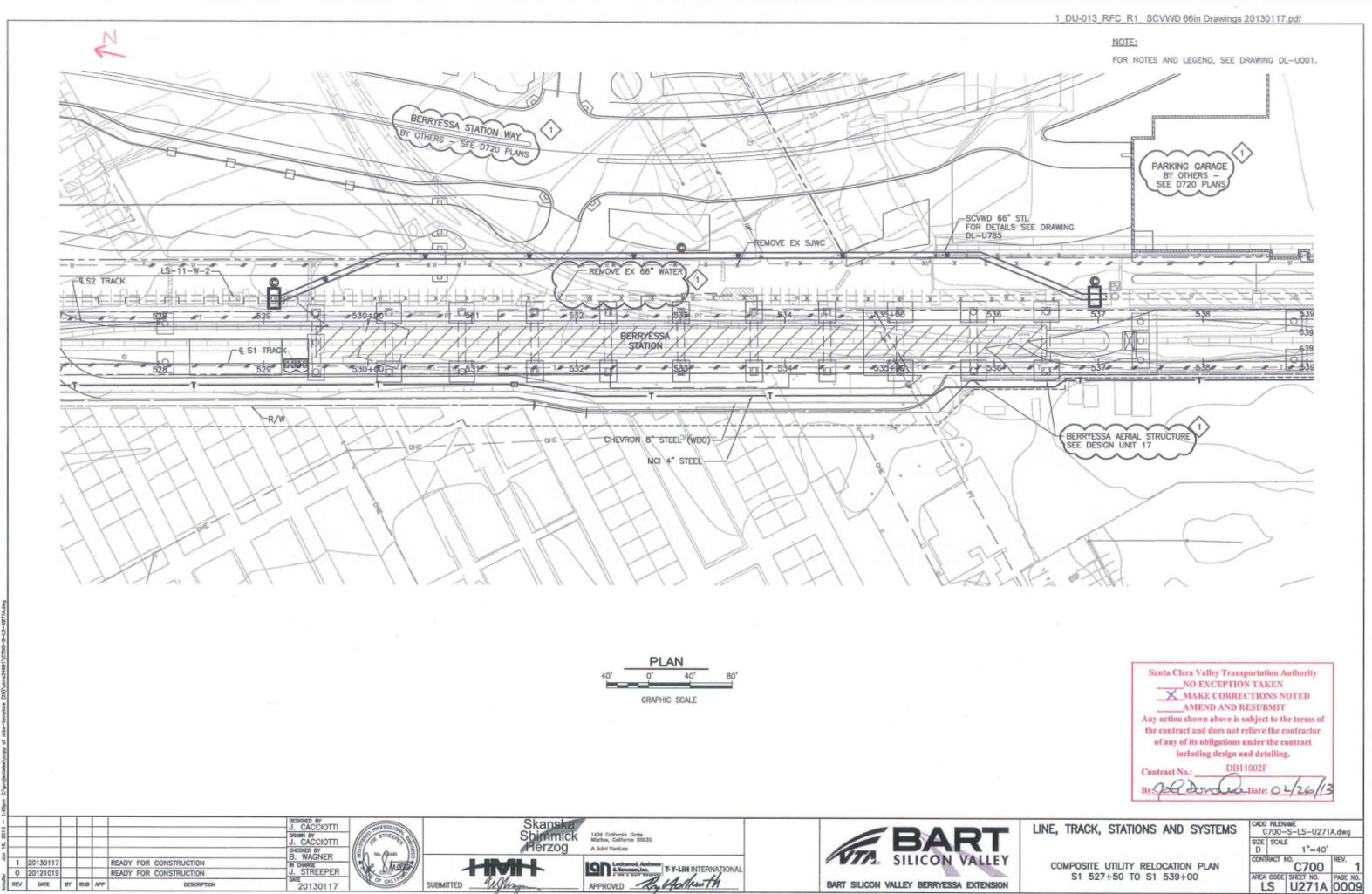
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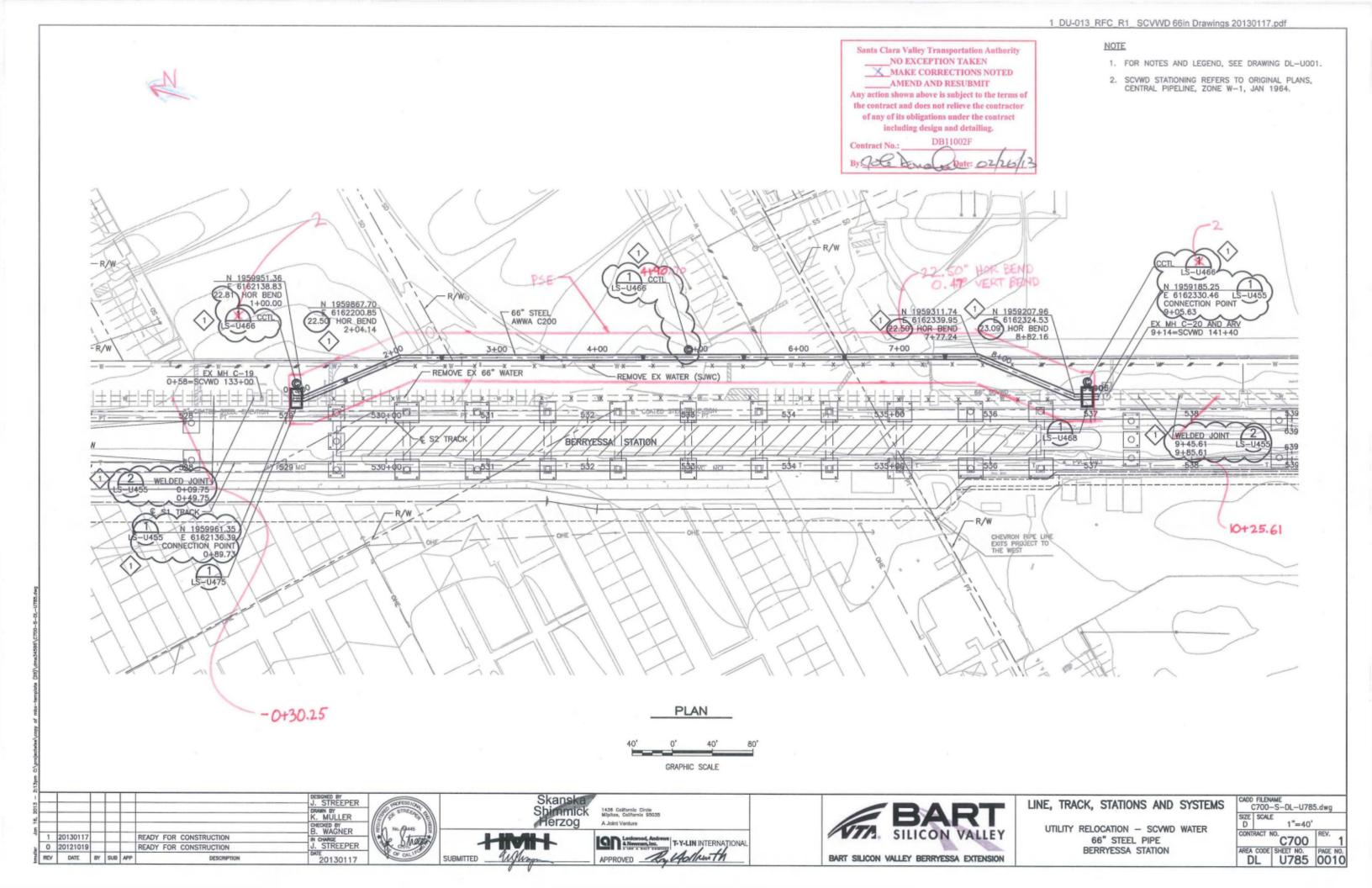
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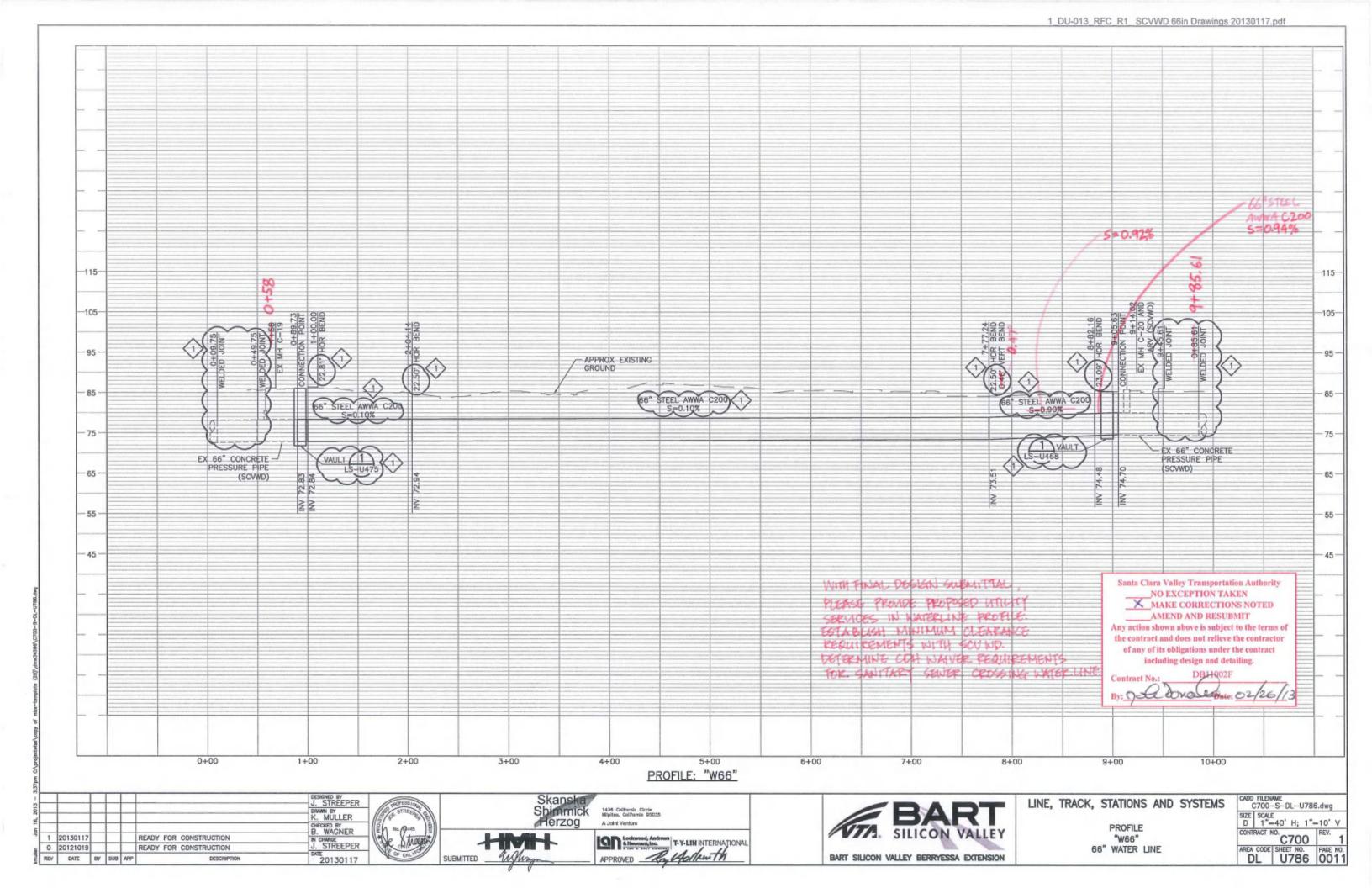
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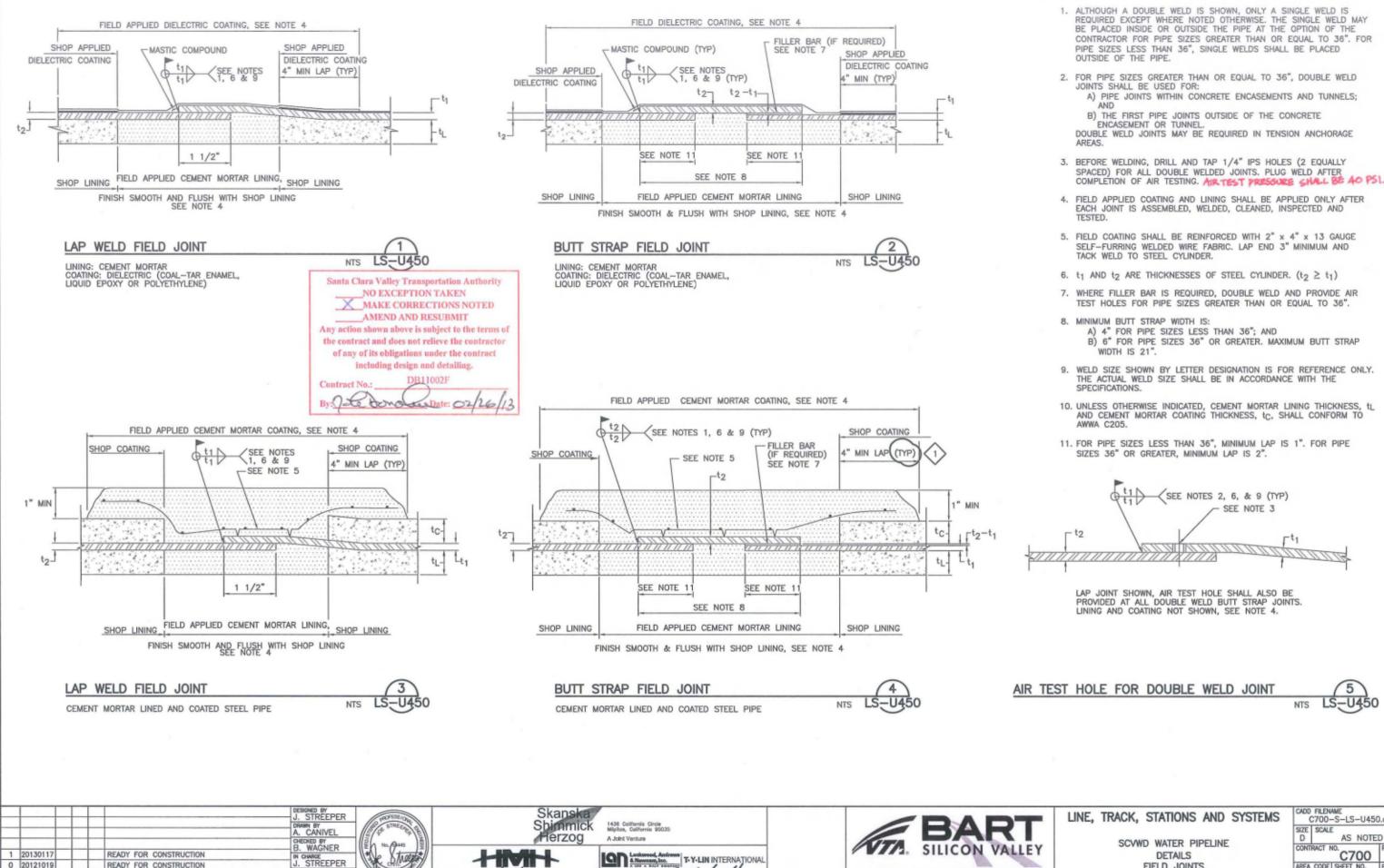
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NOTE	
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FOR N	IOTES AND LEGEND, SEE DRAWING DL-UO01.
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STORAGE CONTAINE	RS U32
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CONSTRUCTION STORAGE	TIOT
AREA FENCED, NO ACC	
Y	
1	
till and the	
1	Santa Clara Valley Transportation Authority
	NO EXCEPTION TAKEN
	MAKE CORRECTIONS NOTED
	AMEND AND RESUBMIT
	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.
	DD11000F
	Contract No.:
	By: 22 Drace Date: 02/26/13
L. L	
LINE, TRACK, STATI	ONS AND SYSTEMS CADO FILENAME C700-S-LS-U171A.dwg
	SIZE SCALE
,	D 1"=40' CONTRACT NO. REV.
EXISTING UTILITIES	PLAN AND DATA C700 1
S1 527+50 TO	D S1 539+00 AREA CODE SHEET NO. PAGE NO. LS U171A 0008
	L3 0171A 0000



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Adrenth

APPROVED

BART SILICON VALLEY BERRYESSA EXTENSION

SUBMITTED

alles

0 20121019

DATE BY SUB APP

REV

READY FOR CONSTRUCTION

DESCRIPTION

20130117

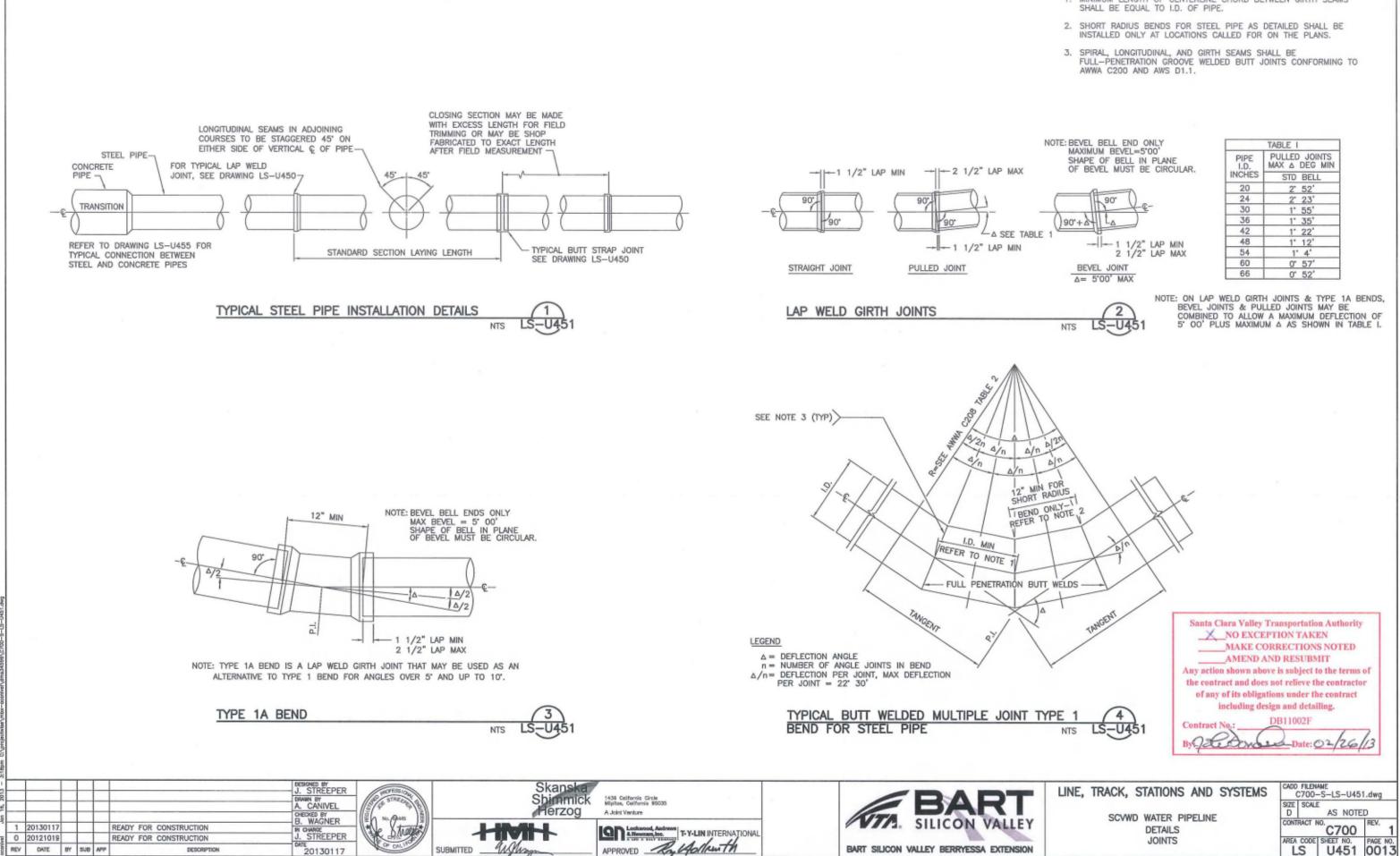
1 DU-013 RFC R1 SCVWD 66in Drawings 20130117.pdf

NOTES:

- REQUIRED EXCEPT WHERE NOTED OTHERWISE. THE SINGLE WELD MAY BE PLACED INSIDE OR OUTSIDE THE PIPE AT THE OPTION OF THE CONTRACTOR FOR PIPE SIZES GREATER THAN OR EQUAL TO 36". FOR
- A) PIPE JOINTS WITHIN CONCRETE ENCASEMENTS AND TUNNELS;

- 7. WHERE FILLER BAR IS REQUIRED, DOUBLE WELD AND PROVIDE AIR
- B) 6" FOR PIPE SIZES 36" OR GREATER. MAXIMUM BUTT STRAP
- AND CEMENT MORTAR COATING THICKNESS, tc, SHALL CONFORM TO

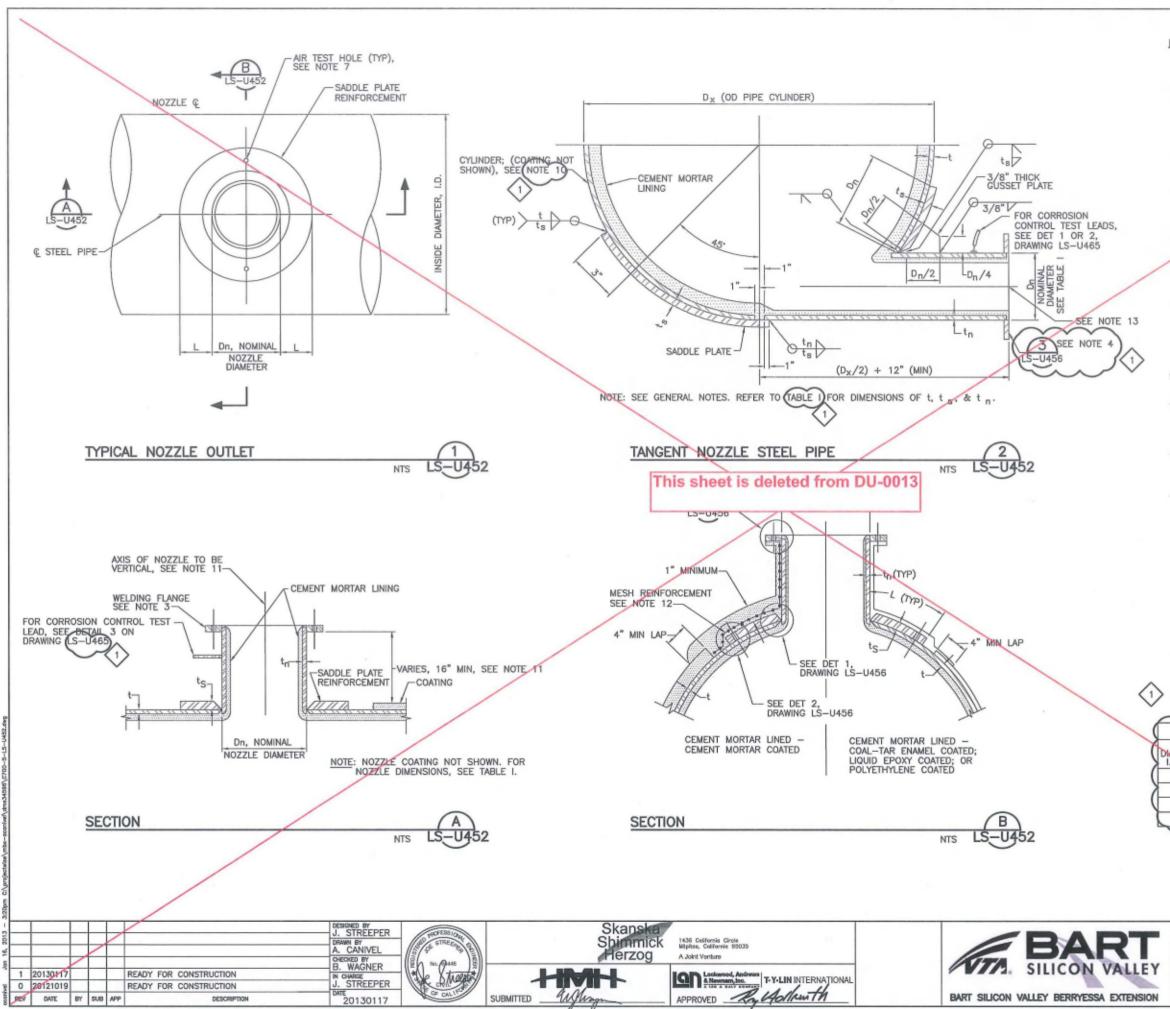
LINE, TRACK, STATIONS AND SYSTEMS	CADD FILENAME C700-S-LS-U450.dwg
SCVWD WATER PIPELINE DETAILS FIELD JOINTS	SIZE D AS NOTED CONTRACT NO. C700 1 AREA CODE SHEET NO. LS U450 0012



NOTES:

- 1. MINIMUM LENGTH OF CENTERLINE CHORD BETWEEN GIRTH SEAMS

	TABLE I
PIPE I.D.	PULLED JOINTS MAX & DEG MIN
INCHES	STD BELL
20	2' 52'
24	2' 23'
30	1' 55'
36	1' 35'
42	1' 22'
48	1' 12'
54	1' 4'
60	0' 57'
66	0' 52'



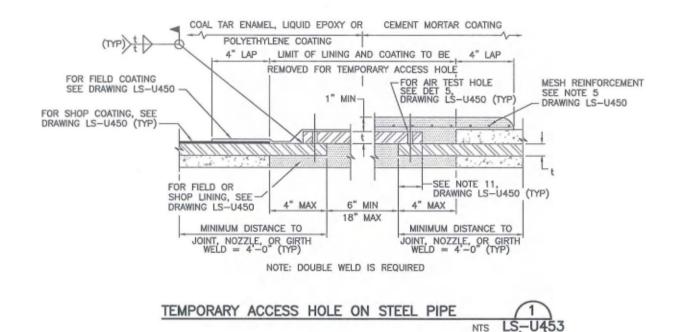
# NOTES:

- SEE SPECIFICATIONS FOR MATERIAL, INSTALLATION, COATING, AND LINING REQUIREMENTS.
- ALL NOZZLES AND PLATES ARE TO BE MANUFACTURED FROM STEEL, CONFORMING TO THE REQUIREMENTS OF STEEL PIPE (ASTM 570 GRADE 36, ASTM A36 OR EQUAL). FOR NOZZLE 24" OR LESS NOMINAL DIAMETER, ASTM A53 GRADE B STANDARD SCHEDULE STEEL PIPE MAY BE USED.
- WELDING FLANGES SHALL BE SLIP-ON WELDING FLANGES, RING TYPE, FLAT-FACE, SEE SPECIFICATIONS. BLIND FLANGES SHALL BE STEEL, SEE SPECIFICATIONS.
- FLANGE FACES SHALL BE SHOP COATED WITH A REMOVABLE RUST-PREVENTING COMPOUND TO PROVIDE PROTECTION DURING TRANSPORT AND PRIOR TO INSTALLATION.
- 5. FLANGE GASKETS SHALL BE 1/8" THICK, FULL-FACE CLOTH INSERTED RUBBER GASKETS.
- FLANGE BOLTS SHALL STRADDLE CENTERLINE OF PIPE OR CENTERLINE OF FLANGE UNLESS REQUIRED OTHERWISE ON DRAWINGS.
- DRILL AND TAP TEST HOLES FOR AIR TEST BEFORE WELDING MEMBERS AS SHOWN ON DETS. PLUG WELD AFTER AIR TEST IS COMPLETED. SEE DRAWING LS-U450.
- SHOP COAT ALL METAL SURFACES EXCEPT FLANGE FACES AND SURFACES RECEIVING FIELD APPLIED COATINGS.
- COAT ALL EXPOSED METAL SURFACES WITH THE SAME COATING AS WAS USED ON THE MAIN PIPE, EXCEPT AS NOTED OTHERWISE.
- FOR SLOPING PIPE INSTALL NOZZLE VERTICALLY, MAINTAIN A MINIMUM CLEARANCE TO THE NOZZLE FLANGE AS SHOWN. SEE DRAWINGS LS-U459 & LS-U476 FOR REQUIRED CLEARANCE IN PRECAST VAULTS.
- MESH REINFORCING SHALL BE SELF-FURRING WIRE MESH 2" x 4" x 13 GAUGE. SECURE WITH CLIPS AT 24" CENTERS AND WELD TO SADDLE, PIPE CYLINDER, OR NOZZLE.
- FOR THE CITY OF MILPITAS TURN OUT, INSTALL 20" BUTTERFLY VALVE AND BLIND FLANGE. PROTECT AS SHOWN ON DRAWING LS-U467, DETAIL 2.

Santa Clara Valley Transportation Authority \_\_\_\_\_NO EXCEPTION TAKEN \_\_\_\_\_MAKE CORRECTIONS NOTED \_\_\_\_\_AMEND AND RESUBMIT 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 contractor including design and detailing. Contract No.: \_\_\_\_\_DB11002F By:\_\_\_\_\_\_Bate:\_\_\_\_26/18

	TABLE I								
PIPE	PIPE CYLINDER*		THICKNESS	INTERNAL DESIGN PRESSURE, FEET	L(IN)				
I.D.(IN)	t (IN)	Dn	t <sub>n</sub> (IN)	615	L(III)				
1	SADDLE PLATE THICKNESS (ts)								
42"	8,500	24"	0.250	0.625	9.875				
SADDLE PLATE THICKNESS (ts)									
42"	0.500	28	0.250	0.625	8.125				
					$\sim$				

LINE, TRACK, STATIONS AND SYSTEMS	CTOD FILENAME CTOD-S-LS-U452.dwg
SCVWD WATER PIPELINE DETAILS	CONTRACT NO. C700 REV. 1
NOZZLE	AREA CODE SHEET NO. TAGE NO. LS U452 0014



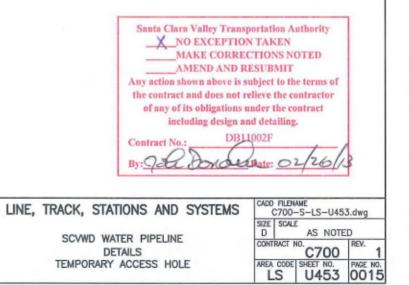


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TEMPORARY ACCESS HOLES ARE ONLY ALLOWED ON PIPE THAT IS TO BE FIELD HYDROSTATICALLY TESTED.

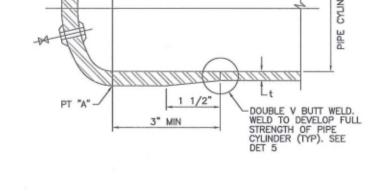
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acenivel Jan 16, 2013 -	 0130117 0121019 DATE	SUB APP	READY FOR CONSTRUCTION READY FOR CONSTRUCTION DESCRIPTION	J. STREEPER J. STREEPER DRWN BY A. CANIVEL CHECKED BY B. WAGNER N CHMRE J. STREEPER DATE 20130117	ALL CALLED	Skanska Sbimmick Herzog	1435 Galifornia Girds Malexas, Galfornia B3035 A Joint Vandure ISON Lackwood, Andrews A Newmann, Inc. A Newmann, Inc. A Start California A PPROVED RAY California A PLAN California A PLAN California A PLAN California A Joint Vandure A Joint Vandure A Newmann, Inc. A PLAN California A Joint Vandure A Newmann, Inc. A Start California A Joint Vandure A Newmann, Inc. A Start California A Joint Vandure A Newmann, Inc. A Joint Vandure A Joint Vandure A Newmann, Inc. A Start California A Start California A Joint Vandure A Newmann, Inc. A Start California A Joint California	BART SILICON VALLEY BERRYESSA EXTENSION

BULKHEAD TYPE 3

BULKHEAD

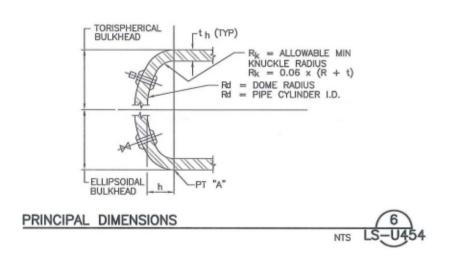


COATING AND LINING NOT SHOWN

NTS

o,

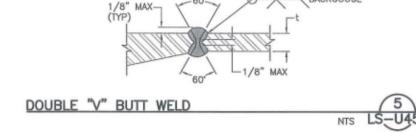
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TEMP. CONCAVE EXTERNAL

BULKHEAD



-60

BACKGOUGE

 $\langle 1 \rangle$ 

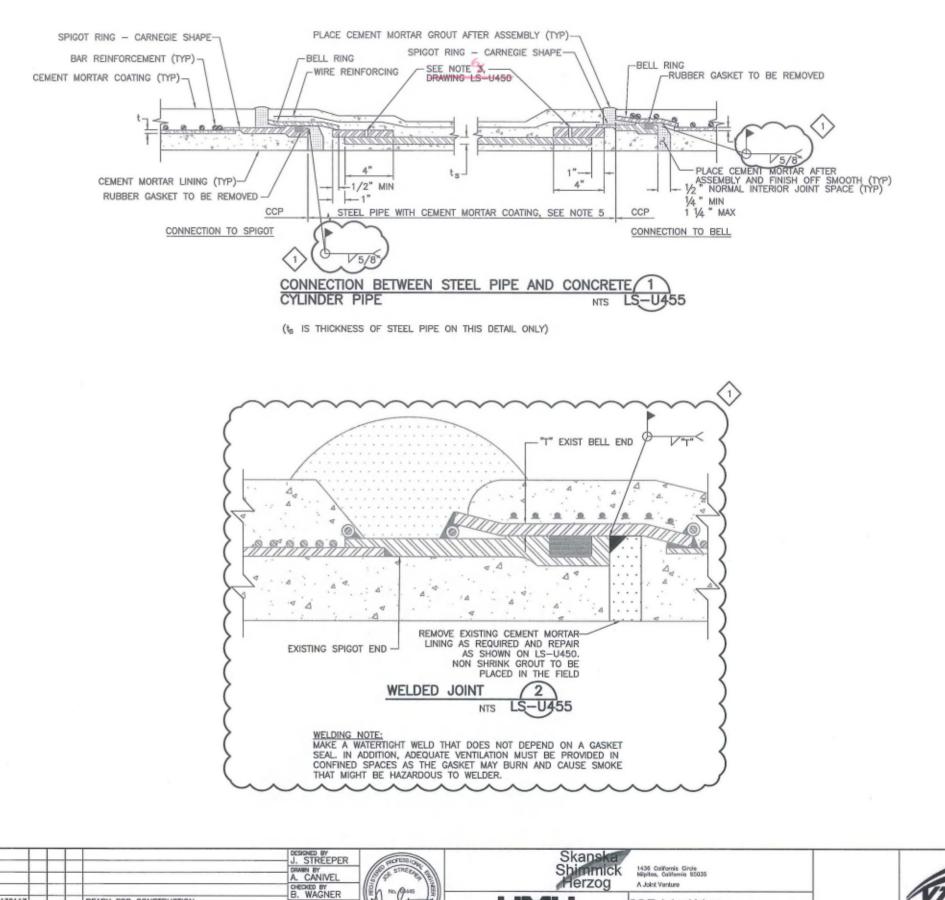
# NOTES:

- LINING AND COATING OF BULKHEAD SHALL MATCH THE ADJACENT PIPE, EXCEPT THAT COAL TAR COATING SHALL NOT BE ALLOWED ON TEMPORARY BULKHEADS, HOLD BACK LINING AND COATING 4" MINIMUM FROM JOINT TO BE WELDED. COAT AND LINE EXPOSED SURFACES AFTER WELDING.
- THE INDICATED BULKHEAD THICKNESS SHALL BE THE THICKNESS AT THE THINNEST POINT AFTER FORMING.
- 3. "t" = THICKNESS OF PIPE CYLINDER
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE ANCHORAGE FOR PIPE SECTIONS UNDER TEST.
- 5. AFTER TEMPORARY BULKHEAD REMOVAL, PIPE JOINT TO ADJACENT PIPE SHALL BE IN ACCORDANCE WITH THE DETAILS ON THESE DRAWINGS, AND REPAIR OF LINING AND COATING SHALL BE AS SHOWN ON THE DRAWINGS AS SPECIFIED IN THE SPECIFICATIONS.

		TORIS	PHERICAL	ELL	IPSOIDAL	
PIPE DIA	PRESSURE CLASS (FT)	DOME RADIUS	BULKHEAD THICKNESS th (IN)	h (IN)	BULKHEAD THICKNESS th (IN)	
42"	615	TBD	NOT USED	10.5 (	0.336	

		TORIS	PHERICAL	ELL		
PIPE DIA	PRESSURE CLASS (FT)	DOME RADIUS	BULKHEAD THICKNESS th (IN)	h (IN)	BULKHEAD THICKNESS th (IN)	
66"	475	TBD	NOT USED	16.5	0.400	$\langle 1 \rangle$

AMEND AND Any action shown above the contract and does no of any of its obligation including design	ION TAKEN RECTIONS NOTED RESUBMIT is subject to the terms of it relieve the contractor is under the contract
LINE, TRACK, STATIONS AND SYSTEMS	CADD FILENAME C700-S-LS-U454.dwg
SCVWD WATER PIPELINE	SIZE SCALE D AS NOTED
DETAILS	CONTRACT NO. C700 REV. 1
BULKHEADS	AREA CODE SHEET NO. PAGE NO. U454 0016





SUBMITTED

Lockwood, Andrews A. Rowman, Inc. A. Lock and Contract T-Y-LIN INTERNATIONAL

APPROVED Roy Holling Th

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DATE BY SUB APP

REV

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READY FOR CONSTRUCTION

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NOTES:

1.

4.

THERE SHALL BE A COMPLETE COIL OF BAR REINFORCEMENT PARALLEL TO THE END OF THE CCP.

2. PIPE JOINT BONDING IS REQUIRED FOR CATHODIC PROTECTION.

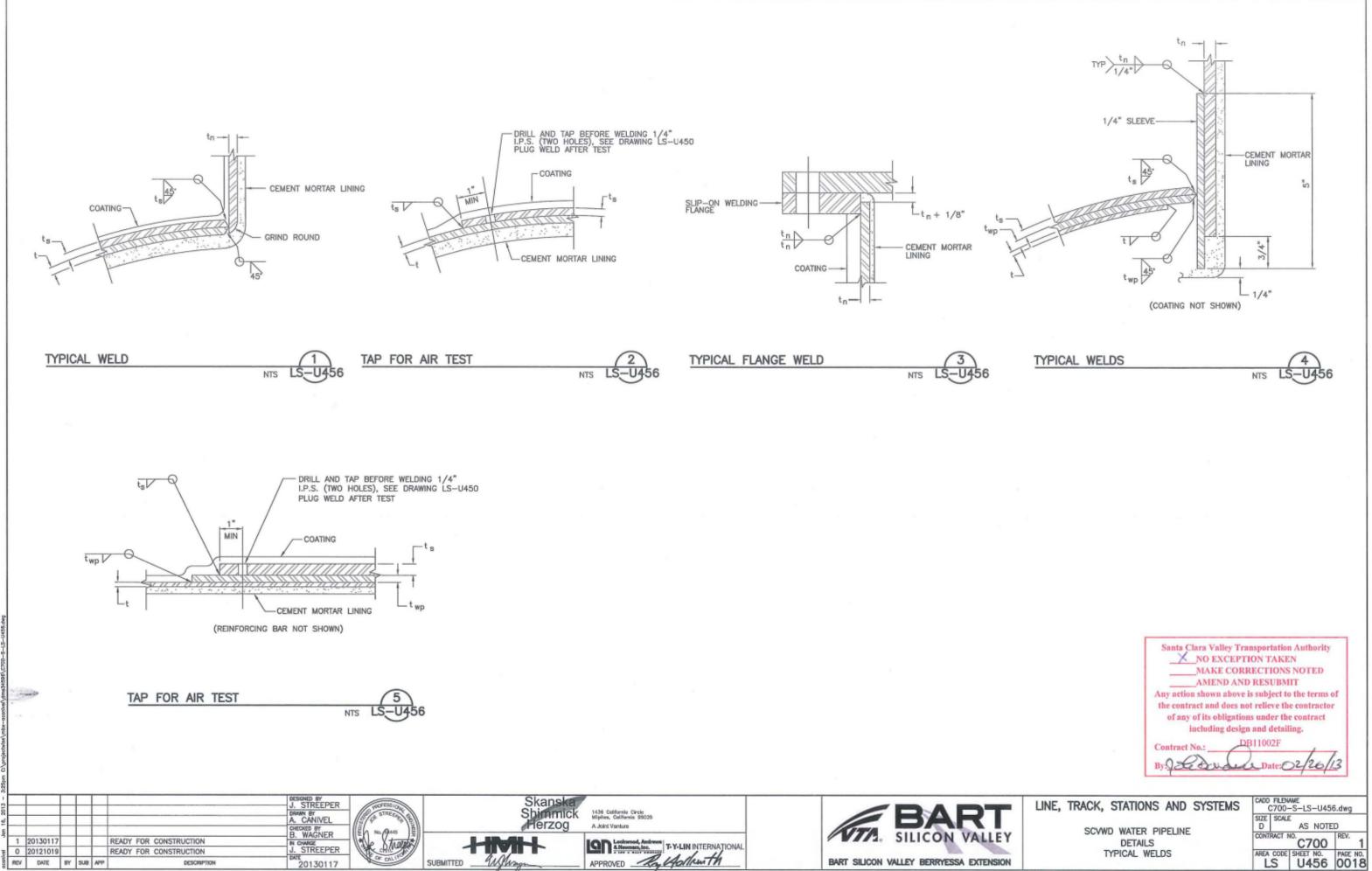
CONNECTION BETWEEN STEEL PIPE AND CCP SHALL INCLUDE A FLANGED INSULATING JOINT, SEE DRAWINGS LS-U473, LS-U499, LS-U467, AND LS-U475. INSTALL CORROSION CONTROL TEST LEADS ON BOTH SIDES OF INSULATING JOINT, SEE DETAIL ON DRAWING LS-U471.

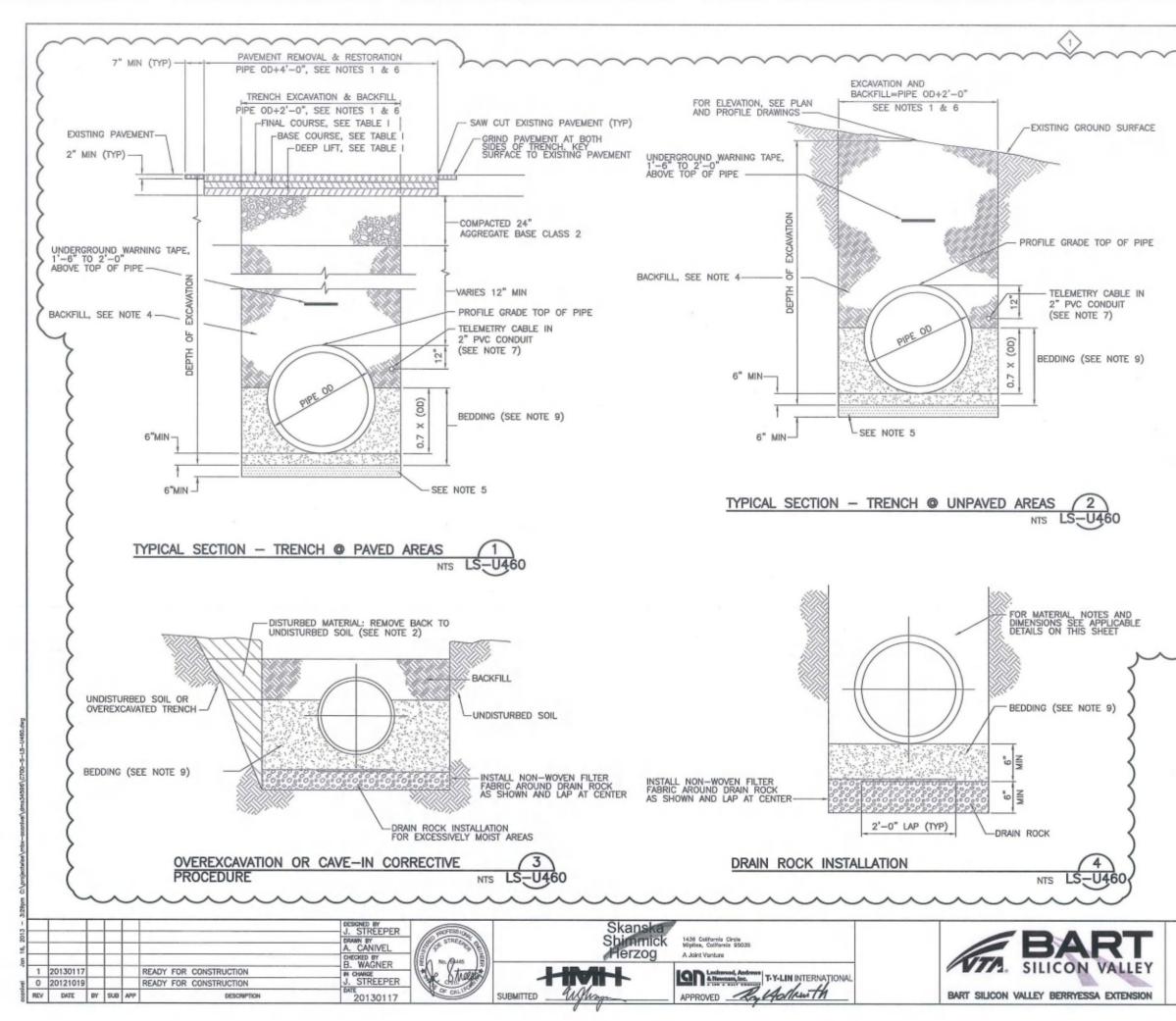
FOR PIPE DESIGN DETAIL INFORMATION, SEE DRAWINGS LS-U469 OR LS-U470.

 REMOVE GASKET FROM SPIGOT RING AND PROVIDE FULL CIRCUMFERENTIAL WELD.

6. AIR TEST HOLE ONLY REQUIRED ON DOUBLE WELD JOINTS.

NO E MAK AME Any action show the contract and of any of its o	Alley Transportation Authority XCEPTION TAKEN E CORRECTIONS NOTED ND AND RESUBMIT in above is subject to the terms of I does not relieve the contractor bligations under the contract og design and detailing. DB11002F
LINE, TRACK, STATIONS AND SYST	EMS CADD FILENAME C700-S-LS-U455.dwg SIZE   SCALE
SCVWD WATER PIPELINE	D AS NOTED
DETAILS	CONTRACT NO. C700 REV. 1
CONNECTIONS	AREA CODE SHEET NO. PAGE NO. LS U455 0017



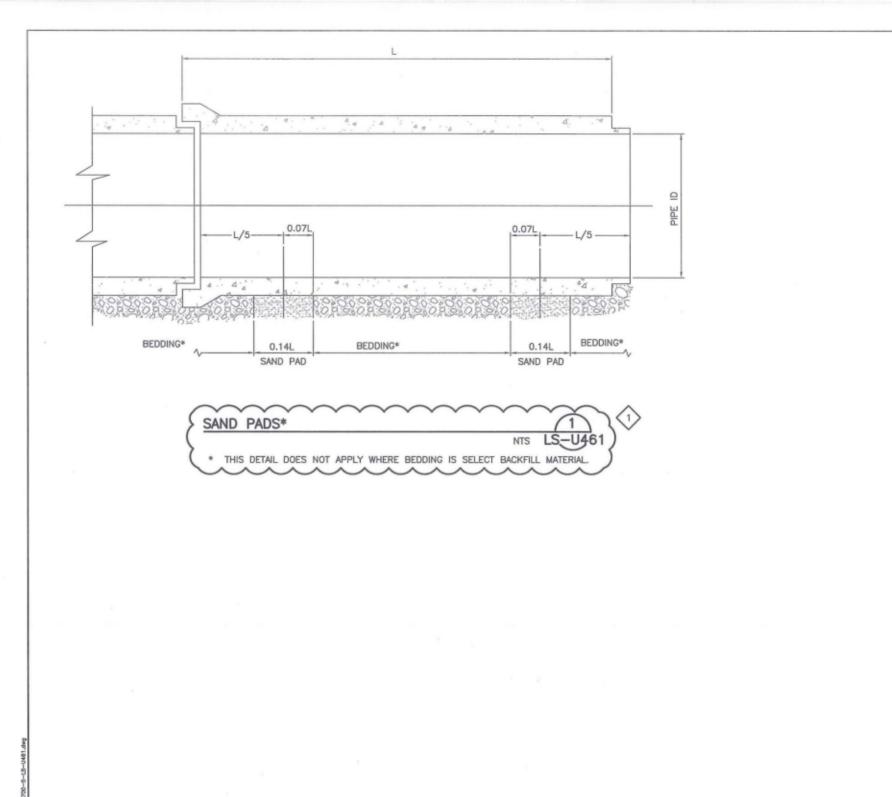


NOTES:

- TRENCHING SHALL CONFORM TO SAFETY REQUIREMENTS REGARDLESS OF TRENCH WIDTH.
- ALL OVEREXCAVATION OR DISTURBED NATIVE MATERIAL SHALL BE REMOVED FROM THE TRENCH AND BACKFILLED WITH THE SAME MATERIAL AS REQUIRED FOR TRENCH BACKFILL FOR THE DESIGNATED DEPTHS.
- ALL EXISTING FACILITIES DAMAGED BY THE CONTRACTOR SHALL BE RESTORED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY WITH JURISDICTION.
- BEDDING MATERIAL MAY BE USED AS AN ALTERNATIVE TO TYPE "A" AND TYPE "B" BACKFILL. IN CITY OF MILPITAS R/W, USE AGGREGATE BASE CLASS 2.
- IF UNSUITABLE MATERIAL IS ENCOUNTERED, AS DEFINED IN THE SPECIFICATIONS, OVEREXCAVATE AND REPLACE WITH SUITABLE MATERIAL OR DRAIN ROCK PER DETAIL 4.
- MINIMUM TRENCH WIDTH SHALL BE AS SHOWN. VARIATION OF THE TRENCH DIMENSIONS OR CONFIGURATION FROM THOSE SHOWN ON THE DRAWINGS MAY RESULT IN A CHANGE IN THE PIPE DESIGN. SEE SPECIFICATIONS.
- 2" PVC CONDUIT WITH TELEMETRY CABLE IS NOT INCLUDED ON THE 66" CENTRAL PIPELINE
- REMOVAL OF SHORING SHALL BE COORDINATED WITH PLACEMENT OF SOIL-CEMENT.
- 9. BEDDING SHALL BE ANY OF:
  - A) COMPACTED SELECT BACKFILL MATERIAL
  - B) SOIL CEMENT
  - C) CONTROLLED LOW STRENGTH MATERIAL (CLSM)
  - D) CONTROLLED DENSITY FILL (CDF)
- 10. WHEN BEDDING USED IS SOIL CEMENT, CLSM, OR CDF, SEE DRAWING LS-U461 FOR SAND PADS.

TABL	EI		
MINIMUM REQUIREMENTS FOR STI	RUCTURAL	SECTION R	EPLACEMENT
	ASPHALT	CONCRETE	PAVEMENT
JURISDICTION	DEEP LIFT (INCHES)	BASE COURSE (INCHES)	FINAL COURSE (INCHES)
COUNTY OF SANTA CLARA	*	*	*
CITY OF MILPITAS	6	4	1

	Contract No.:	TAKEN TIONS NOTED SUBMIT ibject to the terms of lieve the contractor nder the contract			
LINE, TRACK, STATIO	ons and systems	CADD FILENAME C700-S-LS-U460.dwg			
SCVWD WATE DETA TRENCH S	SZE SCALE D AS NOTED CONTRACT NO. AREA CODE SHEET NO. LS U460 0019				



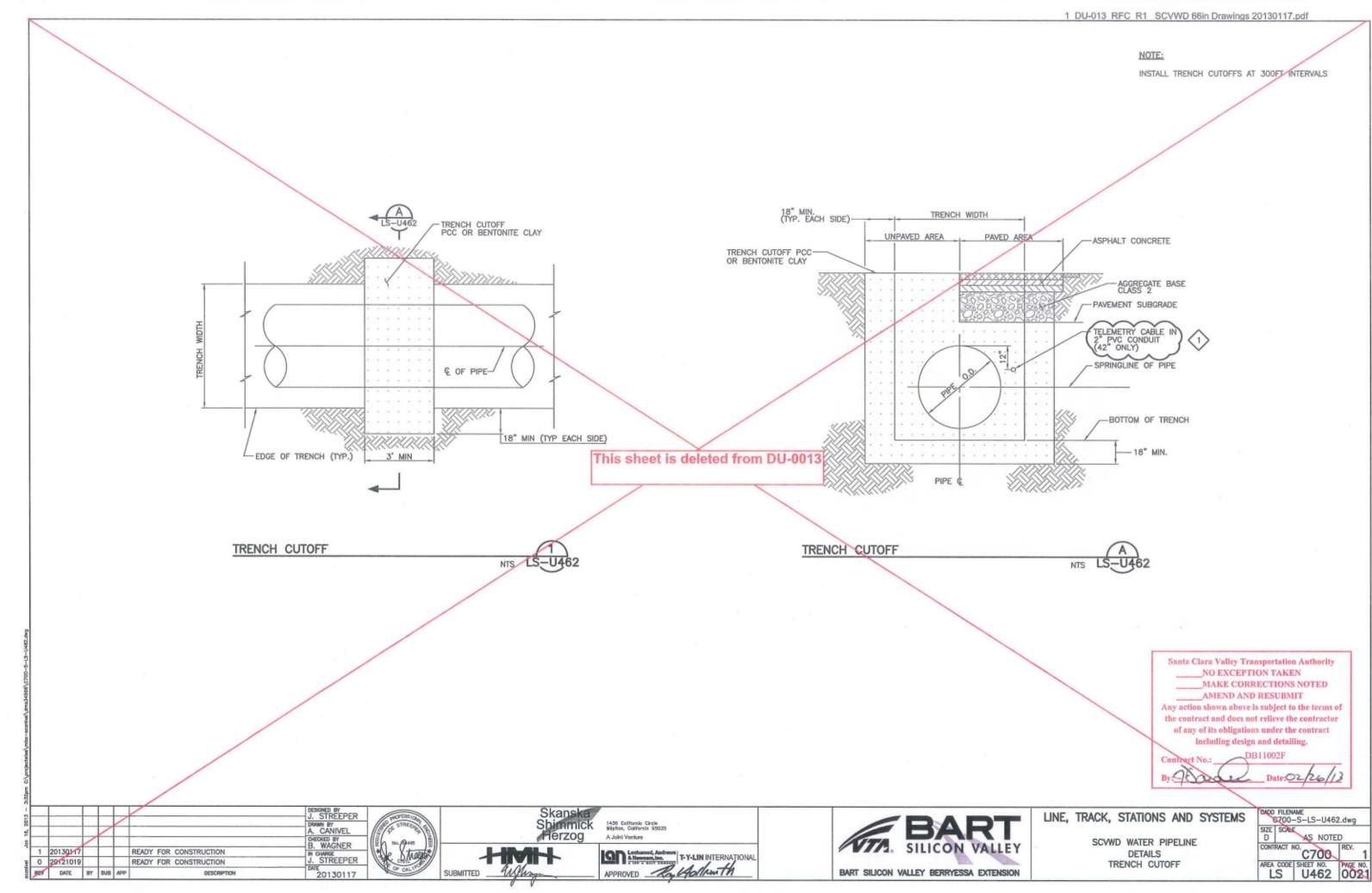
n 16, 2013 -			+				DISIGNED BY J. STREEPER DRAWN BY A. CANIVEL QHECKED BY	PROFESSIONEL CONT	Skanska Shimmick Herzog	1438 Celifornie Circle Mipitan, Californie 85035 A Joint Ventune	BART
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conhei	0 REV	2012101 DATE	81	SUB	APP	READY FOR CONSTRUCTION DESCRIPTION	0130117	OF CALIFOR	SUBMITTED Gullism	APPROVED Ro Holkenth	VALLEY BERRYESSA EXTENSION

NO EXCEPTION TAKEN MAKE CORRECTIONS NOTED AMEND AND RESUBMIT 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. DB11002F Contract No.: By: BONDLEBALE: OZ A

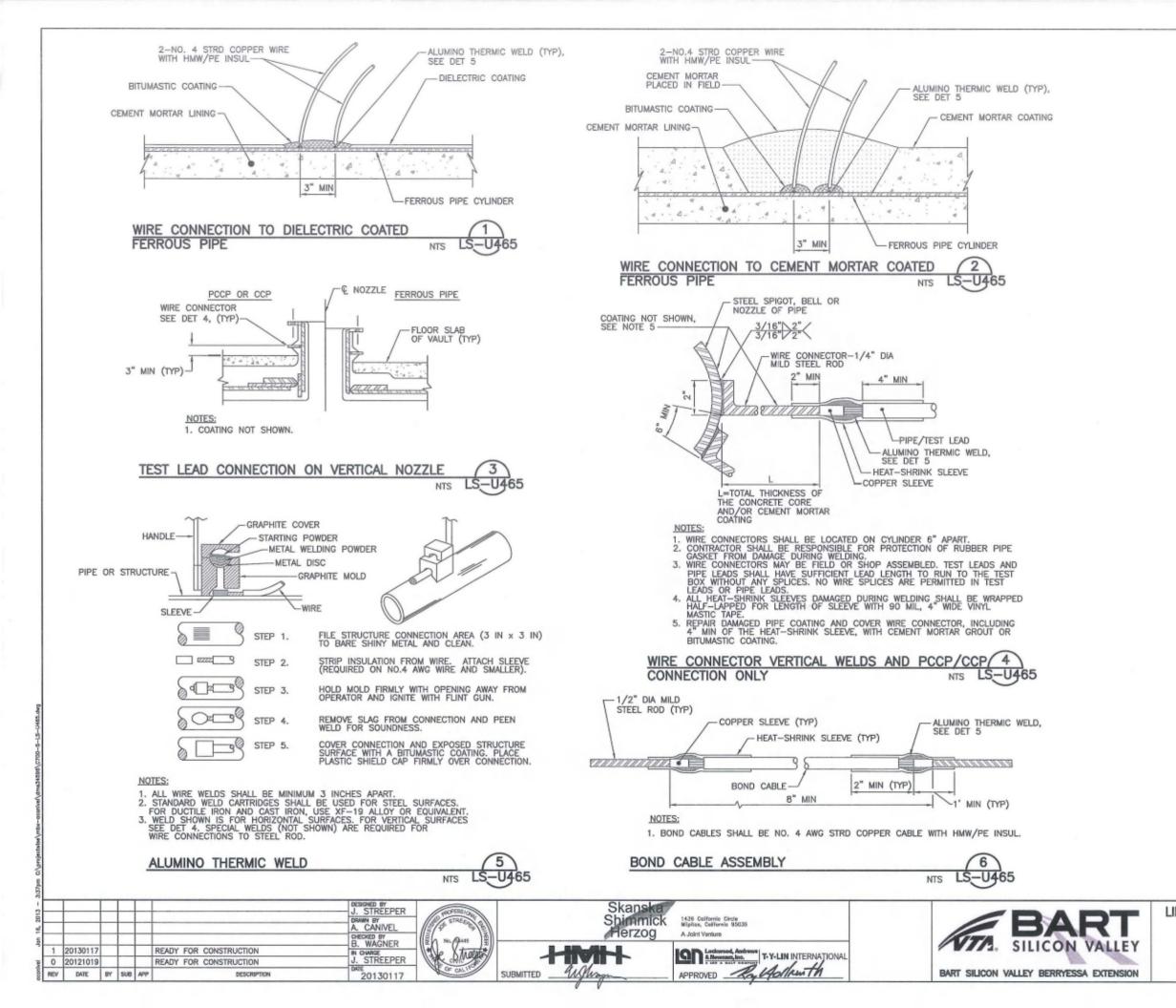
Santa Clara Valley Transportation Authority

LINE, TRACK, STATIONS AND SYSTEMS SCVWD WATER PIPELINE DETAILS TRENCH SECTIONS

CADO							
(	C700-	-S-LS-U461	.dwg				
SIZE	SIZE SCALE						
D	AS NOTED						
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AREA	CODE	SHEET NO.	PAGE NO.				
L	S	U461	0020				







X NO EXCEPTION TAKEN MAKE CORRECTIONS NOTED AMEND AND RESUBMIT 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. DB11002F Contract No. By Dote Donale Date: 02/26 CADO FILENAM LINE, TRACK, STATIONS AND SYSTEMS C700-S-LS-U465.dwg SIZE SCALE AS NOTED

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AREA CODE SHEET NO

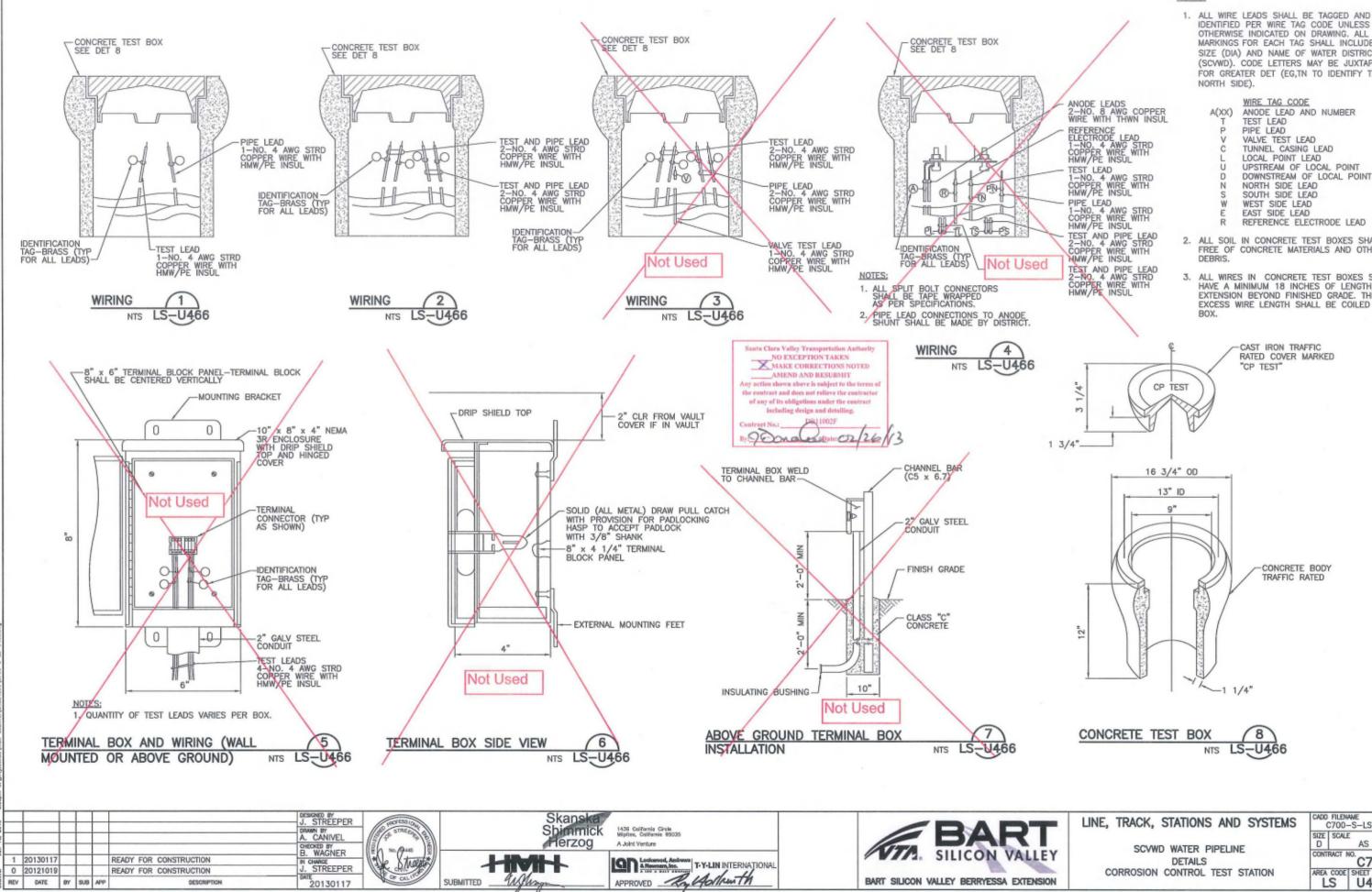
LS

C700

U465 0022

Santa Clara Valley Transportation Authority

SCVWD WATER PIPELINE DETAILS TEST LEAD AND BOND CABLE DETAILS



NOTES:

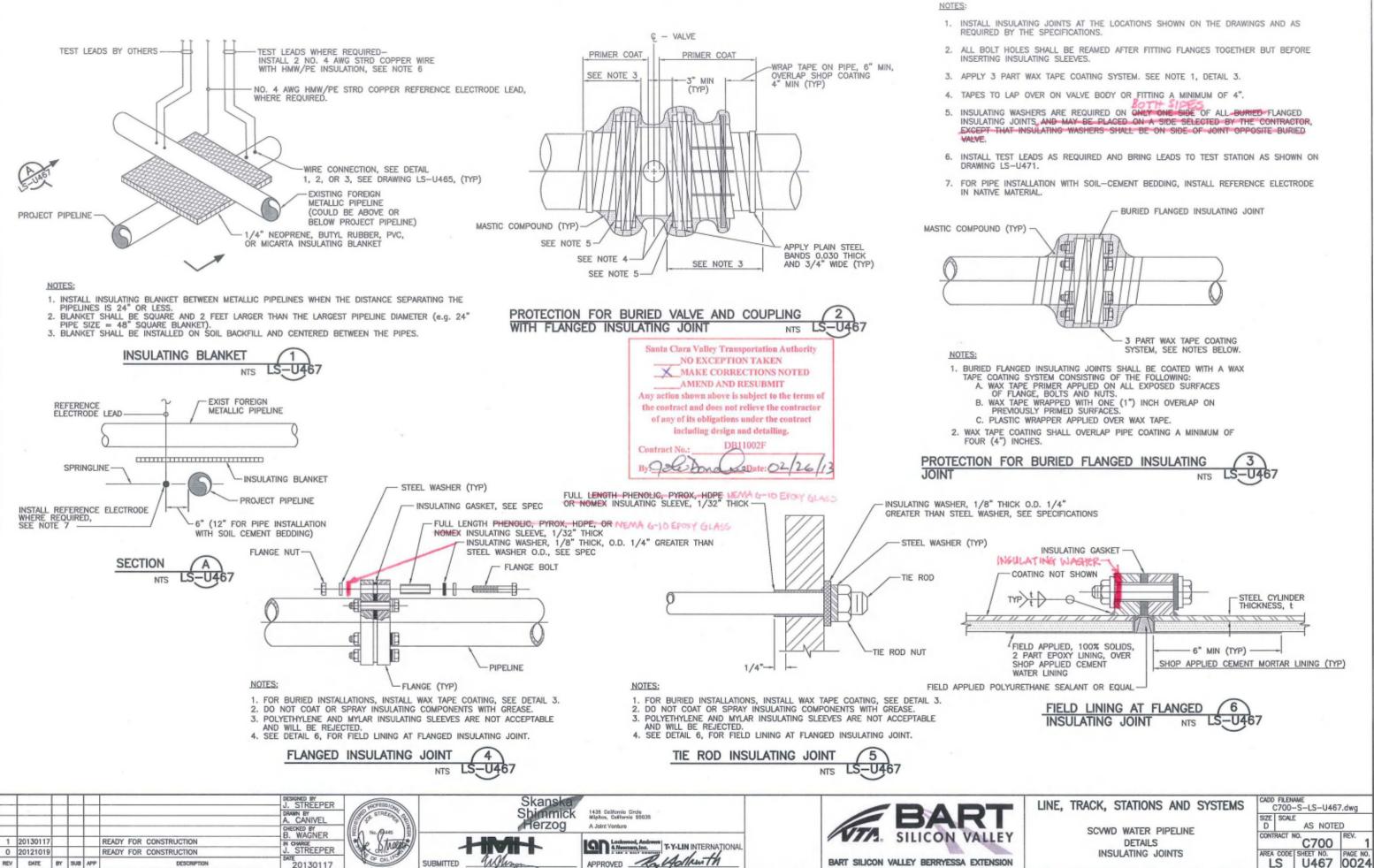
IDENTIFIED PER WIRE TAG CODE UNLESS OTHERWISE INDICATED ON DRAWING. ALL MARKINGS FOR EACH TAG SHALL INCLUDE PIPE SIZE (DIA) AND NAME OF WATER DISTRICT (SCVWD). CODE LETTERS MAY BE JUXTAPOSED FOR GREATER DET (EG,TN TO IDENTIFY TEST LEAD

- DOWNSTREAM OF LOCAL POINT

- REFERENCE ELECTRODE LEAD
- 2. ALL SOIL IN CONCRETE TEST BOXES SHALL BE FREE OF CONCRETE MATERIALS AND OTHER
- ALL WIRES IN CONCRETE TEST BOXES SHALL HAVE A MINIMUM 18 INCHES OF LENGTH FOR EXTENSION BEYOND FINISHED GRADE. THE EXCESS WIRE LENGTH SHALL BE COILED IN TEST

RATED COVER MARKED

LINE, TRACK, STATIONS AND SYSTEMS	CADD FILENAWE C700-S-LS-U466.dwg			
SCVWD WATER PIPELINE DETAILS	SIZE SCALE D AS NOTED CONTRACT NO. C700 REV. 1			
CORROSION CONTROL TEST STATION	AREA CODE SHEET NO. PAGE NO. LS U466 0023			



LINE, TRACK, STATIONS AND SYSTEMS	CADD FILENAME C700-S-LS-U467.dwg				
SCVWD WATER PIPELINE	D	SCALE	AS NOTE		
DETAILS	CONT	RACT	°. C700	REV.	
INSULATING JOINTS	AREA	S	SHEET NO. U467	PAGE NO. 0024	

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- 1. CLASS DESIGNATION (66-615-10)

- THE WELD.

2	TABLE 1 TENSION ANCHORAGE WELDED STEEL PIPE (AWWA C200)				
3	STATION LIMITS (SEE NOTE 3)	MINIMUM CYLINDER REQUIRED (IN)	WELD THROAT DIMENSION REQUIRED (IN)	DESCRIPTION OF BEND OR FITTING	
5	0+30-	EXISTING	t	BEGIN TENSION ZONE	
E	0+90	0.424	t	BEGIN PROPOSED PIPE	
7	1+00-00	0.424	t	22.81" HOR BEND	
50	1+20	0.424	t	TEMP BULK HEAD	
	2+04,14	0.424	t	22.50" HOR BEND	
$\left( \right)$	7+77.24	0.424	t	22.50" HOR BEND/ 0.46" VERT BEND	
65	8+71	0.424	t	TEMP BULK HEAD	
$\geq$	8+82,16	0.424	t	23.09" HOR BEND	
6	-9+06-	0.424	t	END PROPOSED PIPE	
6	10+22	EXISTING	t	END TENSION ZONE	

	TABLE 2 PIPE DESIGN		
	WELDED STEEL PIPE NON-CEMENT MORTAR COATED (AWWA C200)		
CLASS DESIGNATION	MINIMUM CYLINDER THICKNESS (IN) (SEE NOTE 2)	STATION	
(SEE NOTE 1)	UNLIMITED/EMBANKMENT TRENCH CONDITION		
66-475-10	0.424	0+90.00 TO 9+06.00	

0.47°

5			-	_	-						
16, 2013 -							DESIGNED BY J. STREEPER DRAWN BY J. STREEPER CHECKED BY	PROFESSION GROUND	Skanska Shimmick Herzog	1435 Celfarria Circle Nipitas, Celfarrie \$2035 A Joint Venture	BART
Jar	1	2013011	17	$\pm$		READY FOR CONSTRUCTION	B. WAGNER	the the contract		IGD Lectorood, Andrews	SILICON VALLEY
R.	0	2012101	19			READY FOR CONSTRUCTION	J. STREEPER	CHILL		A LIG A BALV COMPANY	
ocen	REV	DATE	BY	SUB	APP	DESCRIPTION	20130117	AL OF CALL	SUBMITTED	APPROVED ANAMINTA	BART SILICON VALLEY BERRYESSA EXTENSION
									0 0	,	

66 = PIPE I.D. IN INCHES (NET INTERNAL) 475 = INTERNAL DESIGN PRESSURE, FEET OF HEAD 10 = EXTERNAL DESIGN, FEET OF COVER

STEEL FOR PIPE CYLINDER IS MINIMUM ALLOWED BASED ON USE OF A1018 GRADE 36 STEEL SHEET OR ASTM 572 GRADE 36 STEEL PLATE OR EQUAL.

INCREMENTAL THICKNESS CHANGES SHALL NOT EXCEED 1/8 INCH IN A MINIMUM DISTANCE OF 2 FEET FOR WELDED STEEL PIPE.

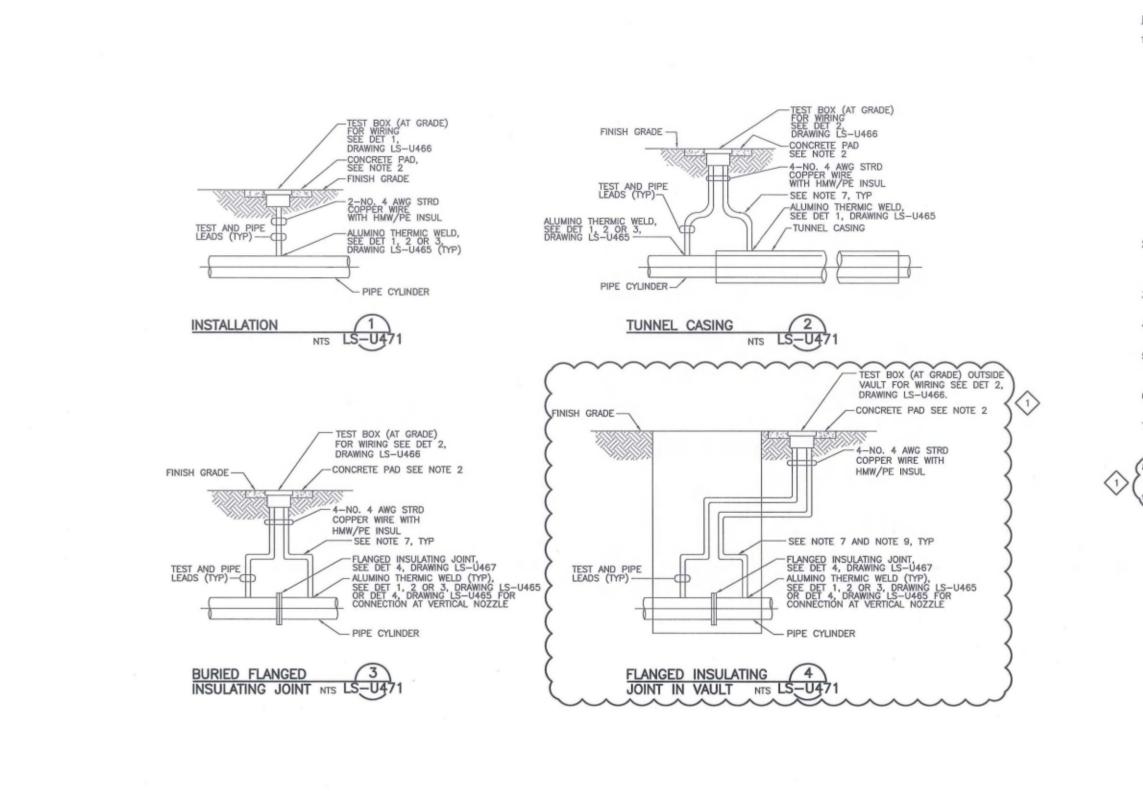
4. WITHIN EACH REACH OF PIPE IDENTIFIED WITH TENSION ANCHORAGE REQUIREMENTS, TOTAL STEEL CYLINDER THICKNESS AND/OR WELD THROAT DIMENSION REQUIRED VARY LINEARLY RELATIVE TO STATIONING.

A DOUBLE WELD IS REQUIRED WHEN THE TABULATED WELD THROAT DIMENSION IS GREATER THAN 0.707 TIMES THE TOTAL CYLINDER THICKNESS AT THE STATIONING OF

6. THE BELL/SPIGOT CONFIGURATION AND THE BELL TO SPIGOT WELD DIMENSION FOR STEEL PIPE SHALL CONFORM TO THE REQUIREMENT SHOWN ON DRAWING LS-U450.

WHERE TENSION ZONE EXTENDS INTO EXISTING PIPE, WELD JOINTS OF EXISTING PIPE AS REQUIRED TO ACHIEVE LIMITS OF TENSION ZONE.

	AMEND AND Any action shown above is the contract and does not of any of its obligation: including design	DN TAKEN ECTIONS NOTED RESUBMIT subject to the terms of relieve the contractor sunder the contract
LINE, TRACK, STATION	S AND SYSTEMS	CADD FILENAME C700-S-LS-U470.dwg
SCVWD WATER PIPE DA 66" DIAME	TA	SIZE SCALE D AS NOTED CONTRACT NO. C700 1 AREA CODE SHEET NO. PAGE NO. LS U470 0025



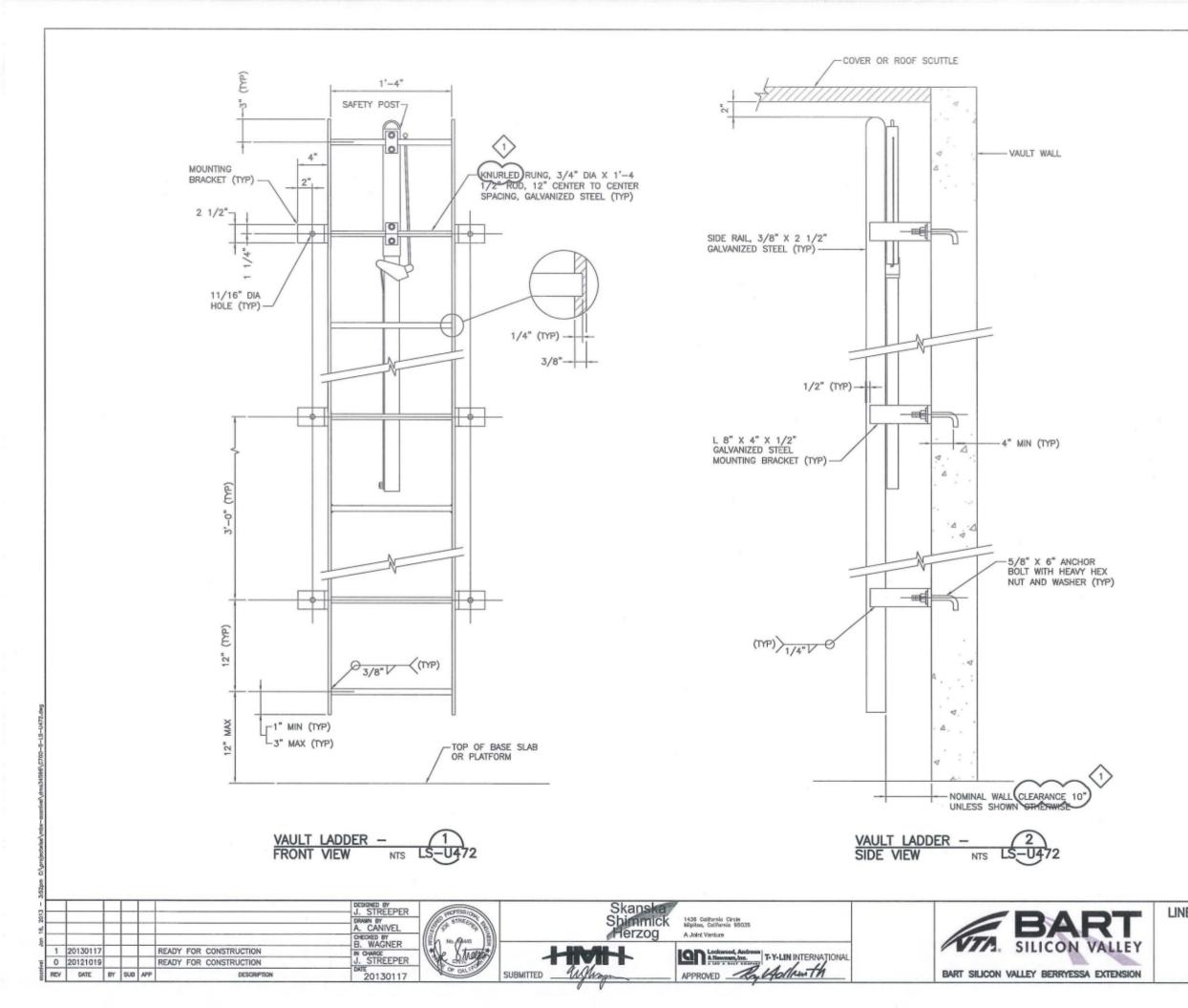


## NOTES:

- ALL WIRE LEADS SHALL BE TAGGED AND IDENTIFIED PER WIRE TAG 1. CODE UNLESS OTHERWISE INDICATED ON DRAWING. ALL MARKINGS FOR EACH TAG SHALL INCLUDE PIPE SIZE (DIA) AND NAME OF WATER DISTRICT (SCVWD).
  - WIRE TAG CODE A(XX) ANODE LEAD AND NUMBER
  - TEST LEAD
  - PIPE LEAD
  - VALVE TEST LEAD TUNNEL CASING LEAD
  - LOCAL POINT LEAD

  - UPSTREAM OF LOCAL POINT DOWNSTREAM OF LOCAL POINT D
  - NORTH SIDE LEAD
  - SOUTH SIDE LEAD
  - W WEST SIDE LEAD EAST SIDE LEAD
  - R REFERENCE ELECTRODE LEAD
- 2. CONCRETE PADS SHALL BE CLASS B CONCRETE, MINIMUM 1'-6" ALL AROUND AND 6" THICK. IN AREAS OF ASPHALT CONCRETE PAVEMENT, THE FINAL COURSE OF ASPHALT CONCRETE PAVEMENT, AS SHOWN ON DRAWING LS-U460, SHALL BE PLACED OVER THE PAD.
- TEST BOXES AND TERMINAL BOXES SHALL BE LOCATED DIRECTLY OVER 3. THE PIPE CENTERLINE, UNLESS OTHERWISE INDICATED.
- 4. ALL TEST LEAD WIRES INSIDE VAULT SHALL BE INSTALLED IN CONDUIT. FASTEN CONDUIT SECURELY TO VAULT FLOOR AND/OR WALL.
- ALL WIRE TRENCHES SHALL BE 30 INCHES DEEP MINIMUM AND SHALL BE BACKFILLED PER SPECIFICATIONS. WIRES MAY RUN IN OR 5. NEAR PIPE TRENCHES.
- 6. TEST BOXES IN PAVED AREAS SHALL BE INSTALLED FLUSH WITH PAVEMENT SURFACE.
- 7. LEADS ILLUSTRATED HERE ARE SHOWN TO BE INSTALLED VERTICALLY, BUT MAY BE INSTALLED HORIZONTALLY TO CLEAR OTHER PIPING OR APPURTENANCES (TYPICAL).
- FOR PIPING THROUGH VAULTS, USE METHOD 1 SEALANT PER DRAWING (8. LS-U474.
- TEST LEADS TO PIPE BUT NOT TO FITTINGS IN VAULT.

MAKE MAKE AMENI Any action shown a the contract and d of any of its obl	ey Transportation Authority CEPTION TAKEN CORRECTIONS NOTED D AND RESUBMIT above is subject to the terms of loses not relieve the contractor igations under the contract design and detailing. DBHQ02F
NE, TRACK, STATIONS AND SYSTE	CADD FILENAME C700-S-LS-U471.dwg
SCWD WATER PIPELINE DETAILS T STATION INSTALLATION SCHEMATIC DE	SIZE SCALE D AS NOTED CONTRACT NO. C700 REV. C700 1 TAILS AREA CODE SHEET NO. LS U471 0026

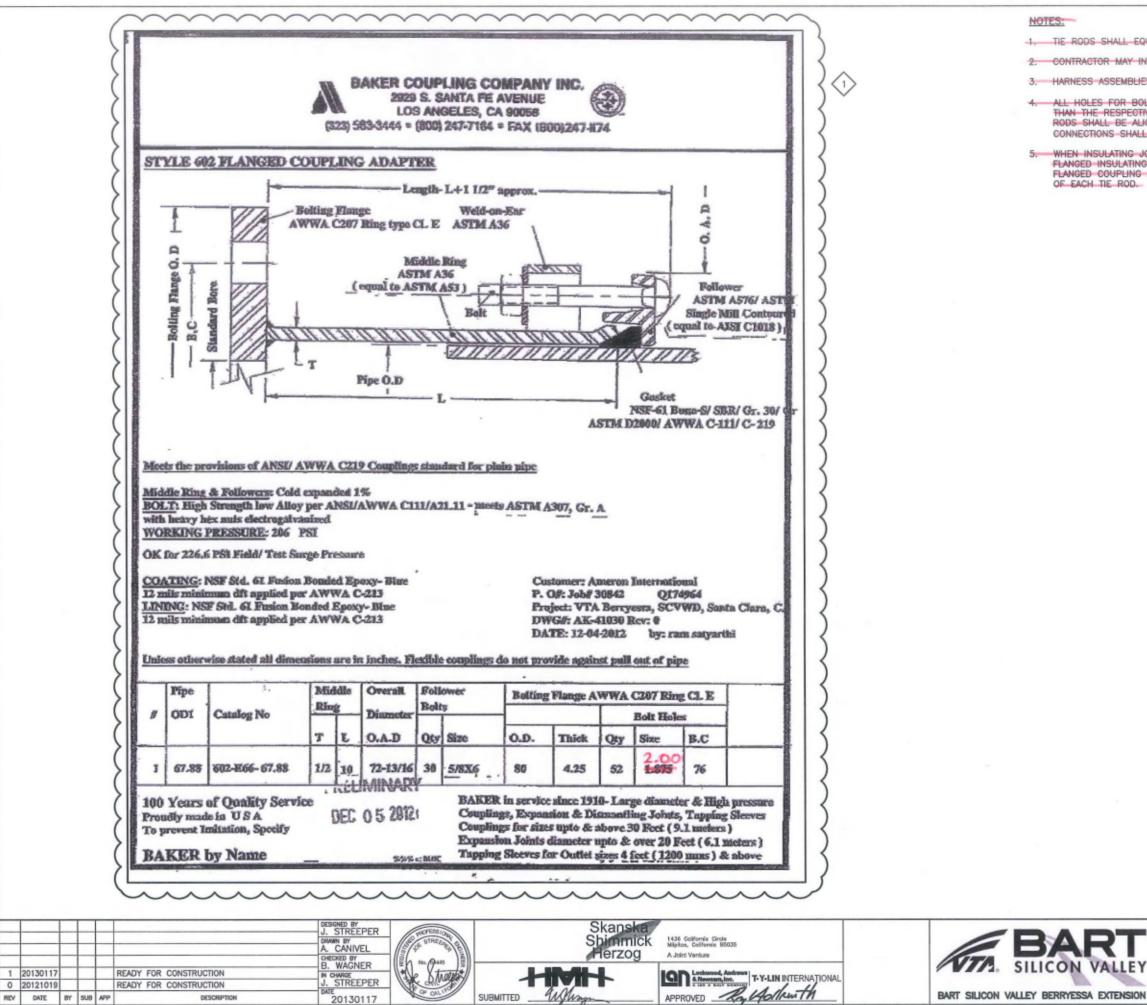


# NOTE:

IN LIEU OF CAST IN PLACE ANCHORS, THE CONTRACTOR MAY SUBMIT AN ALTERNATE ANCHORAGE DETAIL TO THE ENGINEER FOR APPROVAL.

Santa Clara Valley Transportation Authority NO EXCEPTION TAKEN MAKE CORRECTIONS NOTED \_\_\_\_ AMEND AND RESUBMIT 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. DB11002F Contract No. By the Donder ste: 02/26/ CADD FILENAME C700-S-LS-U472.dwg LINE, TRACK, STATIONS AND SYSTEMS SIZE SCALE D AS NOTED SCVWD WATER PIPELINE CONTRACT C700 DETAILS VAULT LADDER AREA CODE SHEET NO. GE NO.

LS U472 0027



20130117

REV DATE BY SUB APP

DESCRIPTION

20130117

SUBMITTED

BART SILICON VALLEY BERRYESSA EXTENSION

1. TIE RODS SHALL EQUALLY STRADDLE VERTICAL PIPE CENTERLINE.

2. CONTRACTOR MAY INSTALL 360' FLANGE ATTACHMENT RING IN TWO SEGMENTS.

3. HARNESS ASSEMBLIES SHALL BE DESIGNED FOR STEEL PIPE.

 ALL HOLES FOR BOLTS OR TIE RODS SHALL BE DRILLED 1/8 INCH LARGER THAN THE RESPECTIVE NOMINAL DIAMETERS OF THE BOLTS OR TIE RODS. TIE RODS SHALL BE ALIGNED SUCH THAT ANY ECCENTRICITY BETWEEN THE END CONNECTIONS SHALL NOT EXCEED 1/32 INCH.

WHEN INSULATING JOINT IS REQUIRED, THE CONTRACTOR SHALL INSTALL A FLANGED INSULATING JOINT OR AN INSULATING SLEEVE BETWEEN PIPE AND FLANGED COUPLING ADAPTER AND A TIE ROD INSULATING JOINT AT BOTH ENDS

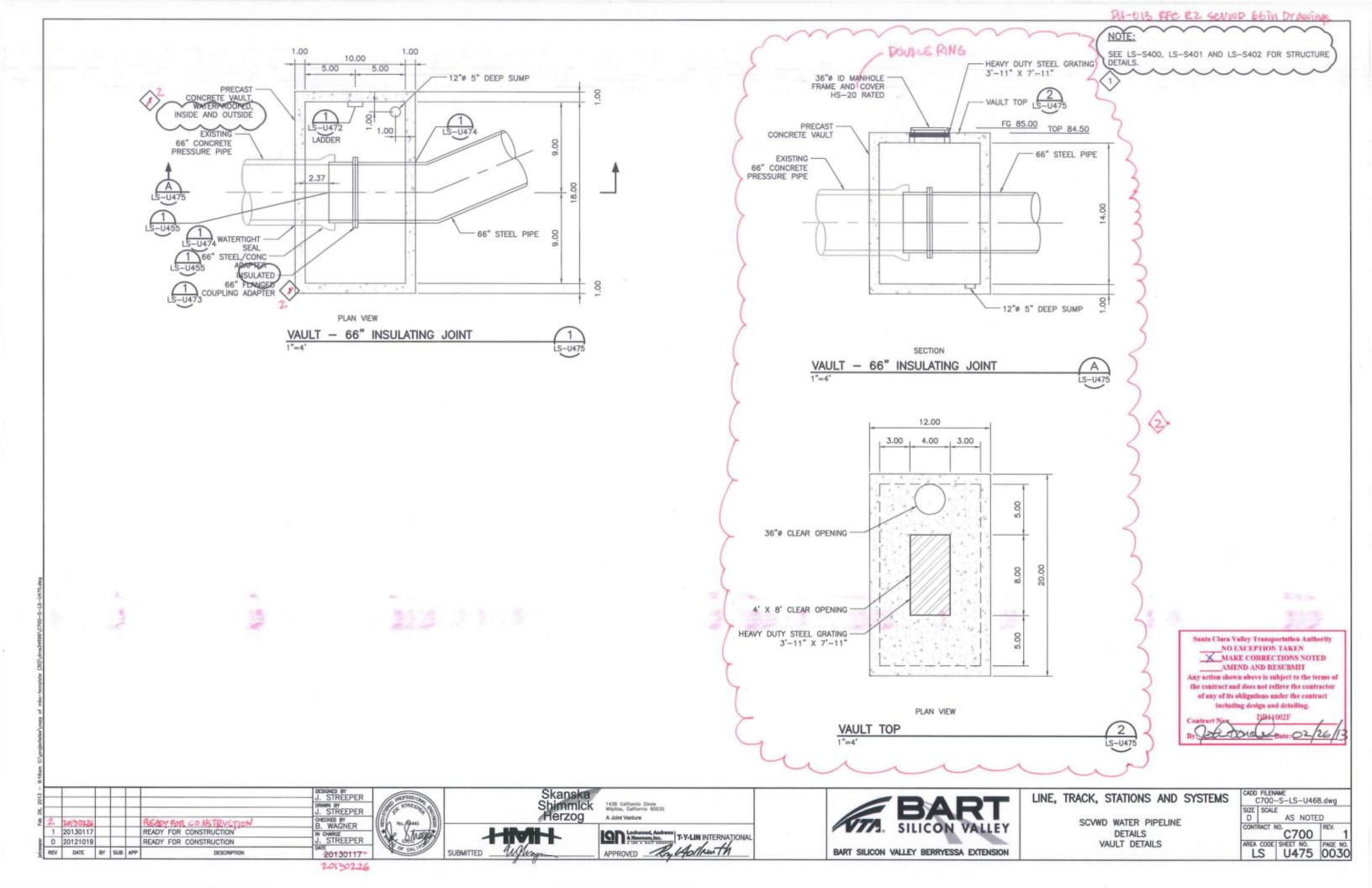
	AMEND ANI Any action shown above the contract and does no of any of its obligation including design Contract No.:D	ION TAKEN RECTIONS NOTED RESUBMIT is subject to the terms of it relieve the contractor is under the contract
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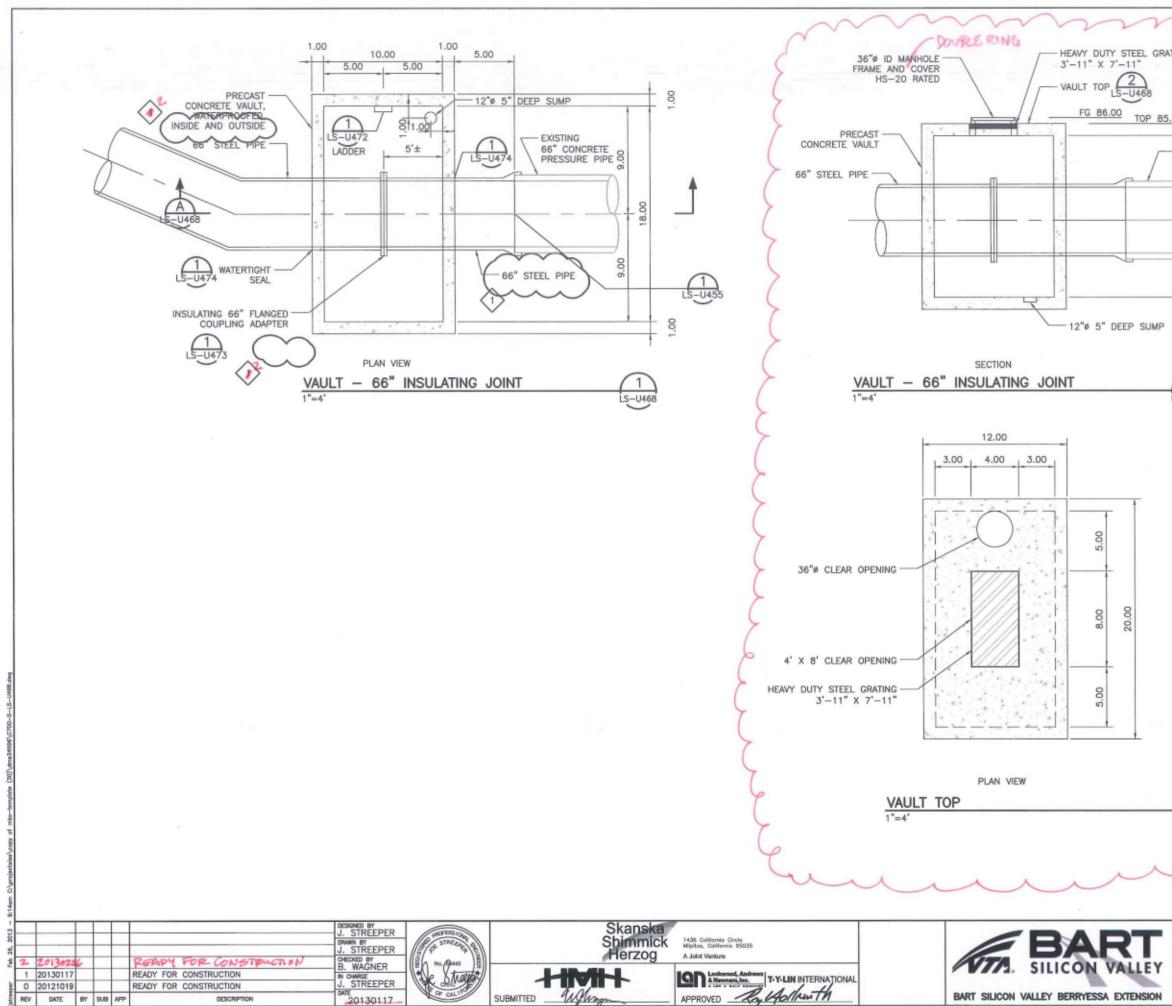
		INTERIOR VAULT WALL PROVIDE NONSHRINK GROUT PIPE PIPE 1/2" EXPANSION JOINT MATERIAL AROUND ALL PIPE ENTERING AND EXTING FROM VAULT. EXPANSION JOINT MATERIAL SHALL CONFORM TO ANSI/ASTM D 1752	WALL ANCHOR COLLAR ASTM DESIGNATION AS INTERIOR VAULT WALL SLEEVE IVAL SLEEVE
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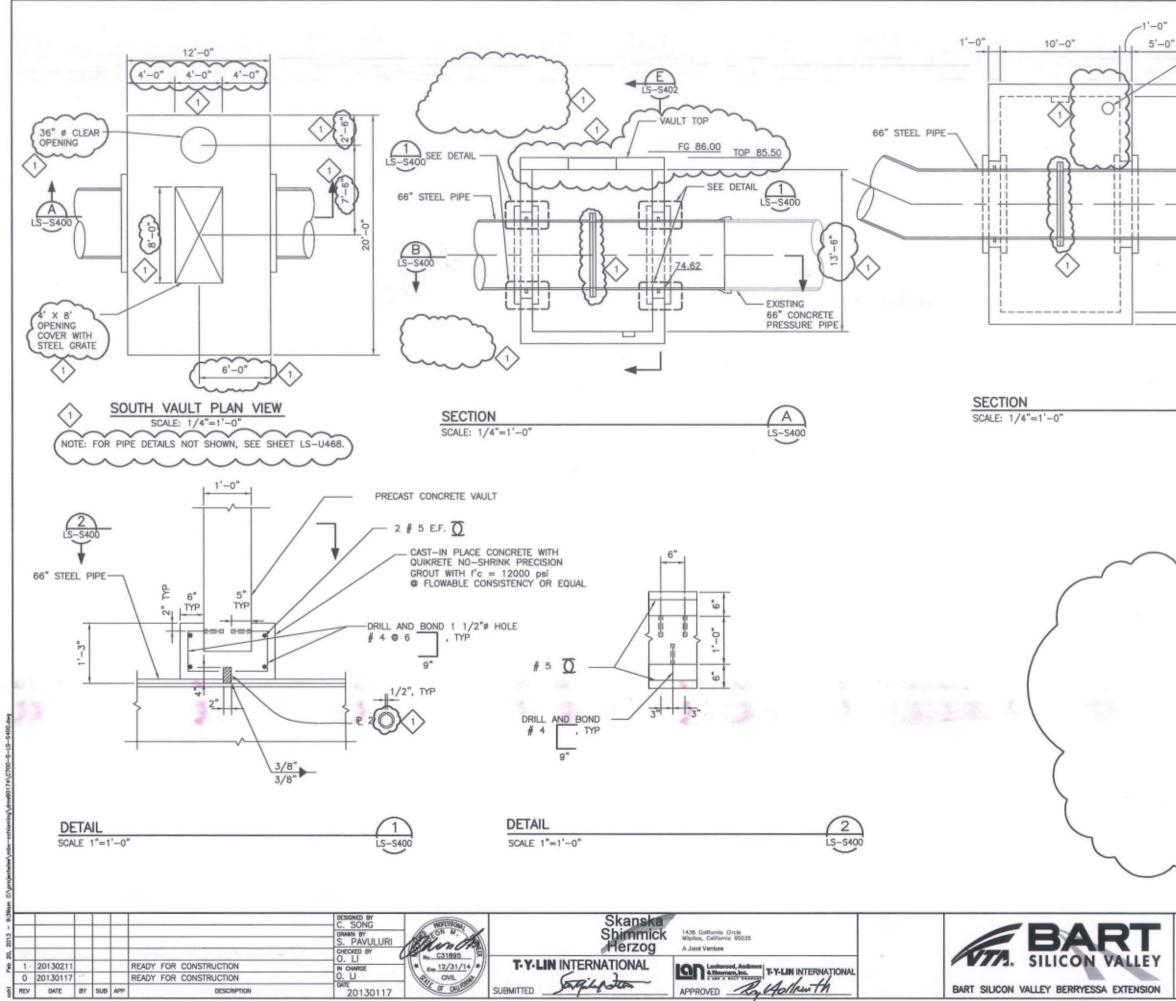
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Santa Clara Valley Transportation Authority MAKE CORRECTIONS NOTED AMEND AND RESUBMIT Any action shown above is subject to the terms of the contract and does not relieve the contractor of any of its obligations under the contract including design and detailing. DB11002F Contract No. By Ste Andre Date: 02 CADD FILENAME C700-S-LS-U474.dwg LINE, TRACK, STATIONS AND SYSTEMS CONTRACT NO. C700 REV. CONTRACT NO. C700 1 AREA CODE SHEET NO. PAGE NO. LS U474 0029 SCVWD WATER PIPELINE DETAILS

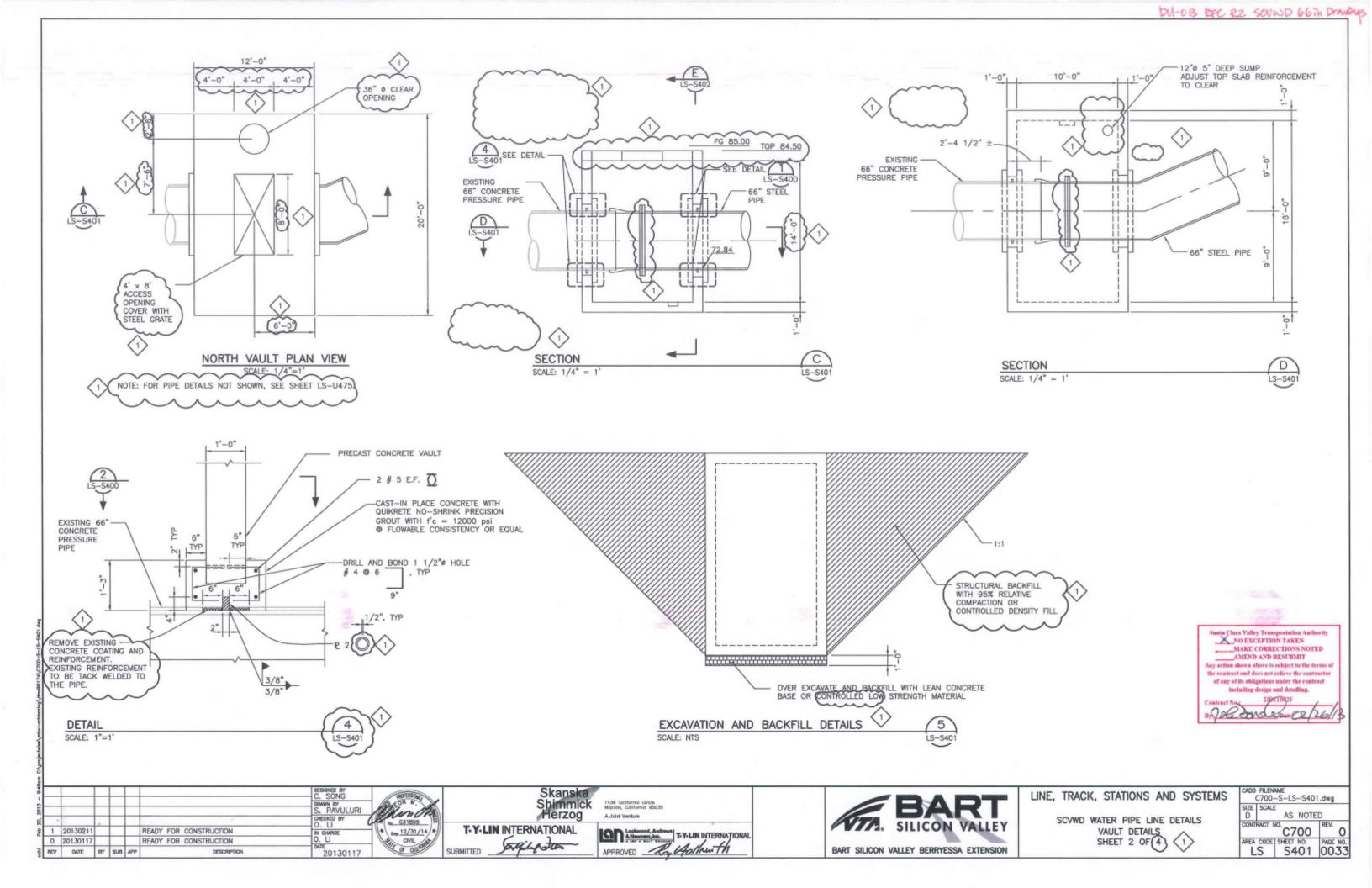


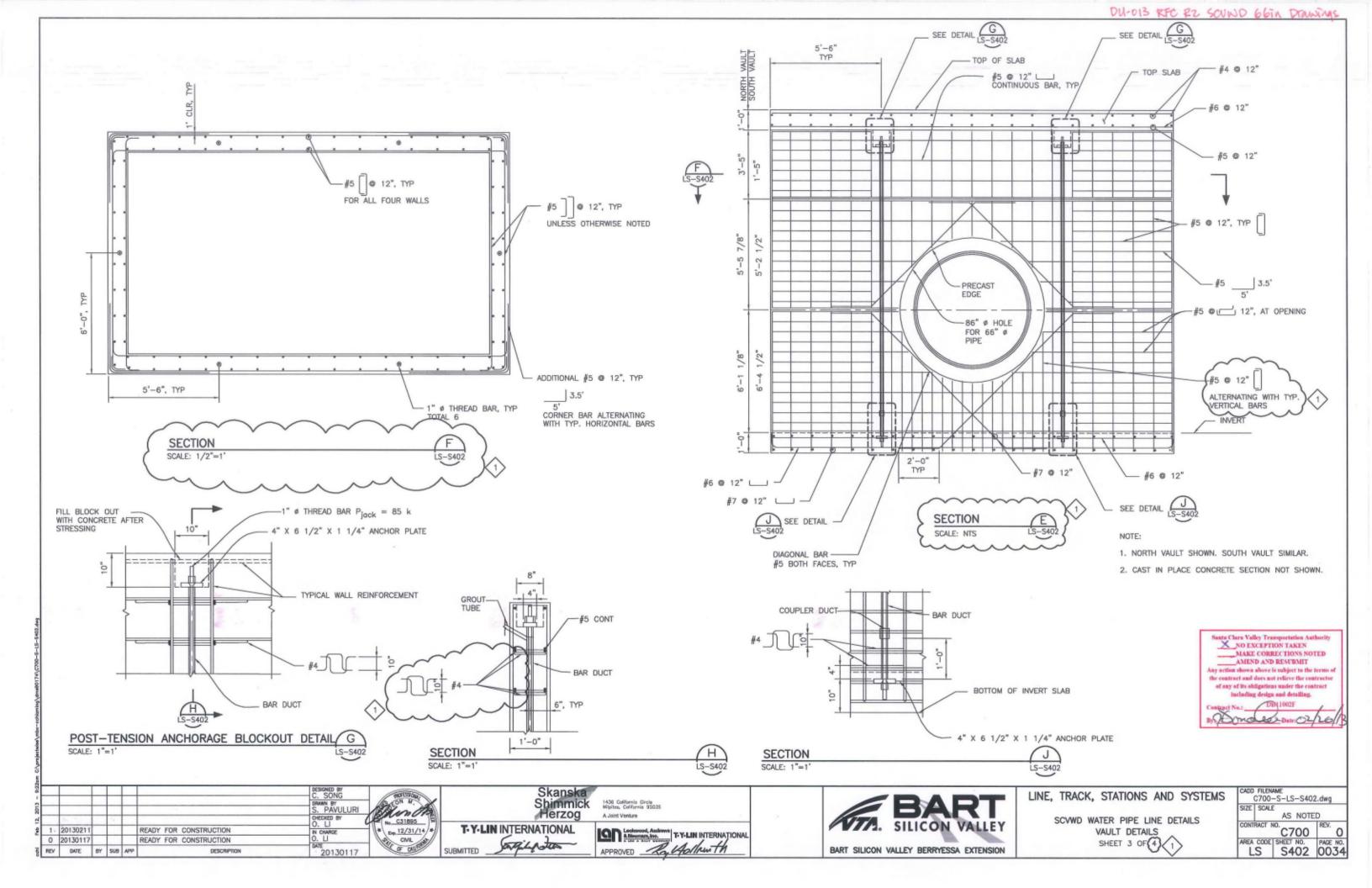


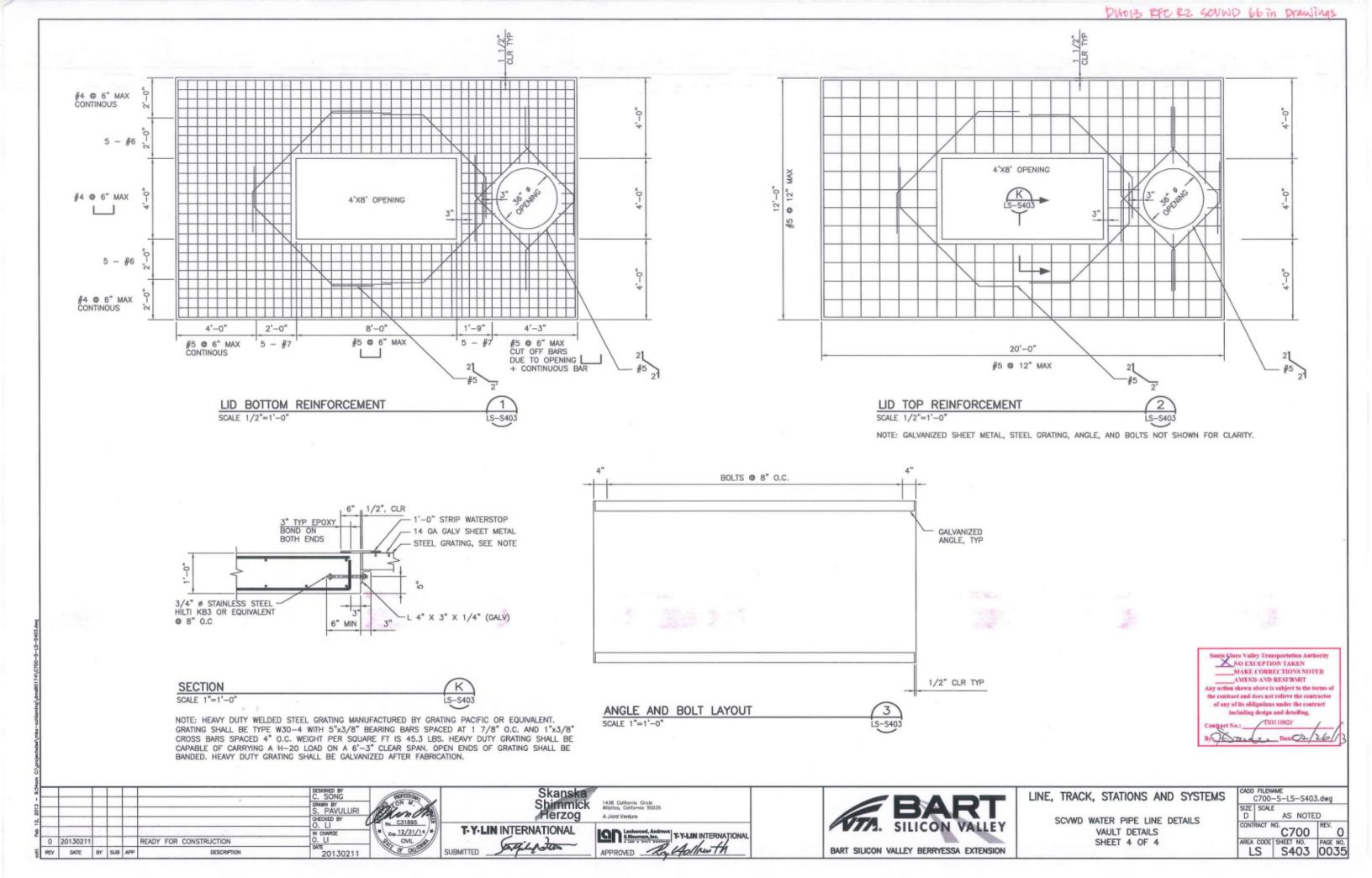
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DU-013 RFC R2 SOUND 66bin Drawings DESIGN NOTES: 12"¢ 5" DEEP SUMP ADJUST TOP SLAB PRECAST CONCRETE UNIT STRESSES: 1. f'c = 6.0 ksi. REINFORCEMENT TO CLEAR 2. BAR REINFORCING STEEL fy = 60 ksi. - EXISTING 66" CONCRETE 3. THREADED BARS = ASTM 722 TYPE II. PRESSURE PIPE DESIGN ASSUMED MAXIMUM 6" OF FUTURE CONCRETE ON TOP OF THE LID. 0 B LS-S400 1 Santa Clara Valley Transportation Authority MAKE CORRECTIONS NOTED AMEND AND RESUBMIT 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. DB11002F Andre Date 2/26/1 CADD FILENAME C700-S-LS-S400.dwg LINE, TRACK, STATIONS AND SYSTEMS SIZE SCALE D AS NOTED SCVWD WATER PIPE LINE DETAILS CONTRACT NO. REV VAULT DETAILS C700 0 AREA CODE SHEET NO. PAGE NO. LS S400 0032 SHEET 1 OF (4) (1)







# PURPOSE OF SURVEY:

THE PURPOSE OF THIS SURVEY IS TO PROVIDE HORIZONTAL AND VERTICAL CONTROL FOR RIGHT-OF-WAY ENGINEERING, DESIGN, AND CONSTRUCTION OF THE BAY AREA RAPID TRANSIT (BART) EXTENSION BY THE SANTA CLARA VALLEY TRANSPORTATION AUTHORITY (VTA), TO RUN SOUTHERLY FROM THE UNION TERMINUS OF BART'S WARM SPRINGS EXTENSION APPROXIMATELY ELEVEN MILES ALONG THE UNION PACIFIC RAILROAD RIGHT-OF-WAY, THEN SUBSURFACE WESTERLY THROUGH DOWNTOWN SAN JOSE UNDER SANTA CLARA STREET, THEN NORTHERLY TO AND ALONG THE CALTRAIN RIGHT-OF-WAY TO THE INTERSECTION OF LAFAYETTE STREET.

# BASIS OF COORDINATES AND BEARINGS:

COORDINATES FOR CONTROL POINTS AND BEARINGS SHOWN ON THIS SURVEY ARE BASED HORIZONTALLY ON THE CCS83, ZONE 3, EPOCH 1998.5 (SEE NOTE #1 ON THIS SHEET), AND VERTICALLY ON NAVD88, DEVELOPED BY THE PERFORMANCE OF SURVEYS DESCRIBED AS FOLLOWS

### PRIMARY GPS SURVEY

THE PRIMARY GPS NETWORK CONSISTING OF 49 POINTS WAS OBSERVED TO FGCS ORDER B STANDARDS. THE GPS SURVEY WAS CONDUCTED USING FOUR TRIMBLE NAVIGATION 4700 AND ONE TRIMBLE NAVIGATION 4000SSI DUAL FREQUENCY GEODETIC RECEIVERS. STATIC SURVEYING TECHNIQUES WERE USED FOR MEASURING ALL BASELINE VECTORS. INSTRUMENT HEIGHTS WERE MEASURED IN METERS AND IN FEET. THESE VALUES WERE REDUCED AND COMPARED IN THE FIELD PRIOR TO LEAVING THE STATION, ALL STATIONS WERE OCCUPIED AT LEAST TWICE ON INDEPENDENT DAYS. IN GENERAL, GPS DATA WAS LOGGED FOR AT LEAST ONE HOUR; HOWEVER UP TO 4 HOURS OF DATA WAS COLLECTED FOR THE LONGER BASELINES.

ALL BASELINE VECTORS WERE PROCESSED USING THE TRIMBLE GEOMATICS OFFICE, (VERSION 1.50) SOFTWARE, FIXED BIAS SOLUTIONS WERE OBTAINED FOR ALL BASELINES USING INTERNATIONAL GPS SERVICE FOR GEODYNAMICS (IGS) PRECISE ORBITS FOR ALL BASELINE VECTOR COMPUTATIONS.

A MINIMALLY CONSTRAINED LEAST SQUARES ADJUSTMENT WAS PERFORMED ON THE PRIMARY GPS NETWORK TO ENSURE THAT FGCS ORDER-B STANDARDS WERE ACHIEVED. THE GPS BASELINES OF THE PRIMARY GPS NETWORK WERE ADJUSTED USING MICROSEARCH GEOLAB 2001 (VERSION 2001.9.20.0). THE GEODETIC COORDINATES (LATITUDE, LONGITUDE AND ELLIPSOIDAL HEIGHT) OF CORS STATION ZOA1 PROVIDED THE MINIMAL CONSTRAINT. THE ADJUSTMENT COMPRISED OF 49 STATIONS AND 408 BASELINE VECTOR COMPONENTS (136 BASELINES) AND WAS BASED ON NAD83 (CORS) AT THE 2003.05 EPOCH.

## CONVENTIONAL TRAVERSING

PRECISE CONVENTIONAL MEASUREMENTS WERE PERFORMED ON SECONDARY CONTROL INSTALLED TO DENSIFY THE PRIMARY GPS NETWORK, THEREBY ESTABLISHING A NETWORK OF CONTROL THROUGHOUT THE PROJECT AREA. FGCS FIRST ORDER CLASS I STANDARDS AND PROCEDURES WERE ADOPTED FOR THE SECONDARY CONTROL. A LEICA TC2002 WAS USED FOR ALL DIRECTION, ZENITH ANGLE AND SLOPE DISTANCE MEASUREMENTS. THIS INSTRUMENT WAS CALIBRATED LOCALLY FOR SCALE AND ZERO ERROR (PRISM CONSTANT) BY COMPARING GPS DERIVED DISTANCES WITH THE REDUCED HORIZONTAL DISTANCES. RELATIVE HUMIDITY AND TEMPERATURE OBSERVATIONS WERE OBSERVED DURING THE FIELD WORK. ATMOSPHERIC PRESSURE DATA WERE OBTAINED FROM SAN JOSE AIRPORT.

#### PRECISION LEVELING

FGCS STANDARDS, SPECIFICATIONS AND PROCEDURES FOR SECOND ORDER CLASS II WERE ADOPTED FOR VERTICAL CONTROL SURVEYS, EXISTING NGS VERTICAL CONTROL WAS DENSIFIED TO ESTABLISH NEW BENCHMARKS THROUGHOUT THE PROJECT AREA. THE SELECTED PROJECT VERTICAL DATUM IS NAVD88

A LEICA NA3003 DIGITAL LEVEL WAS USED FOR ALL PRECISION LEVELING. THE FGCS MODIFIED HEIGHT DIFFERENCE MEASUREMENTS AT EACH SETUP.

## NETWORK ADJUSTMENT AND POST ANALYSIS

THE LEAST SQUARES ADJUSTMENT WAS PERFORMED ON THE NADB3 (CORS) DATUM, EPOCH OF 2003.05. ALL GPS VECTORS, ELEVATION DIFFERENCES, AND CONVENTIONAL MEASUREMENTS WERE COMBINED IN A SINGLE UNIFIED ADJUSTMENT ALLOWING FOR THE MOST RIGOROUS AND RELIABLE RESULTS. THE GEOID99 GEOIDAL MODEL WAS USED TO FACILITATE THE GENERATION OF ORTHOMETRIC HEIGHTS (ELEVATIONS) FOR ALL CONTROL POINTS NOT OBSERVED THROUGH PRECISION LEVELING, THE COMBINED ADJUSTMENT WAS PERFORMED USING EVERY OBSERVATION TO ENSURE THE MOST RIGOROUS SOLUTION. CERTAIN OBSERVATIONS WERE DE-WEIGHTED IN THE LEAST SQUARES ADJUSTMENT.

THE VTA/BART PROJECT IS BASED ON NADB3 (CORS) EPOCH OF 1998.5. CONSEQUENTLY, THE RESULTS OF THIS ADJUSTMENT WERE TRANSFORMED FROM NADB3 (CORS), EPOCH OF 2003.05 BACK TO NADB3 (CORS), EPOCH 1998.5 USING THE NATIONAL GEODETIC SURVEY SOFTWARE HTDP (HORIZONTAL TIME-DEPENDENT POSITIONING SOFTWARE - VERSION 2.7).

## NOTES:

1) ALL COORDINATES AND DISTANCES SHOWN ARE IN SURVEY FEET VALUES (GRID). FOR THE LENGTH OF THIS PROJECT, AN AVERAGED COMBINED SCALE FACTOR WAS USED FOR CONVERTING RECORDED MAPS AND DEEDS TO GRID. TO OBTAIN GROUND DISTANCES, MULTIPLY EXPRESSED DISTANCES BY 1.000053330. 2) STATIONS SUAA, WINT, MHCB, ZOA1, LUTZ, CHAB, M 874, BART 205R, & BART 206 WERE USED AS THE HORIZONTAL ADJUSTMENT CONSTRAINTS FOR THIS PROJECT (COORDINATES AND DESCRIPTIONS ON PG 2). 3) STATIONS QQ 453, M 874, N 1447, B 875, C 1121 RESET, Z 111 RESET, Q 591 RESET, N 874, K 179, VASONA, I 19=96 RESET, C 1371, L 1447, AND HPGN D CA SAN PEDRO WERE USED AS THE VERTICAL ADJUSTMENT CONSTRAINTS FOR THIS PROJECT (COORDINATES AND DESCRIPTIONS ON PAGE 2). 4) ALL BART MONUMENTS, BERY, FERN, AND VTA 171A ARE FND WITH VARYING DIAMETER (SEE PAGE 5). 5) A RECORD OF SURVEY IS BEING FILED PURSUANT TO PROVISION (d) OF SECTION 8762, OF THE PROFESSIONAL LAND SURVEYORS ACT.

6) THE HYPERLINK TO THE NGS WEBSITE: HTTP: //WWW.NGS.NOAA.GOV/CGI-BIN/DS\_DESIG.PRL

# BENCHMARKS:

THE ELEVATIONS SHOWN HEREON ARE COMPILED FROM DIFFERENTIAL LEVEL LOOPS BASED UPON THE FOLLOWING SOURCES:

NGS "QQ 453" BRASS DISK IN TOP OF CONC MON LOCATED IN CITY OF SAN JOSE NEAR THE JUNCTION OF US HIGHWAY 101 AND BLOSSOM HILL RD (STATE HWY 82) (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 190.83' DATUM: NAVD88

NGS "N 1447" METAL ROD LOCATED IN CITY OF SAN JOSE AT THE INTERSECTION OF UNION PACIFIC RAILROAD AND OAKLAND ROAD, (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 52.37 DATUM: NAVD88

CGS "B 875" BRASS DISK LOCATED IN CITY OF SAN JOSE AT THE INTERSECTION OF UNION PACIFIC RAILROAD AND WEST JULIAN STREET. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 90.67' (RECORD) 90.585 MEASURED DATUM: NAVD88

CGS "C 1121 RESET" BRASS DISK LOCATED IN CITY OF SAN JOSE, APPROX 0.1 MILE NW OF THE JUNCTION OF HORNING STREET, AT THE CRISTINA WAREHOUSE COMPANY (1045 10TH STREET). (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 61.79' DATUM: NAVDRR

CGS "Z 111 RESET" BRASS DISK LOCATED IN CITY OF SAN JOSE, IN THE TOP OF THE NE END OF THE SE CONC ABUTMENT OF A CONC BRIDGE OVER W TAYLOR STREET (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 78.34' (RECORD) 78.261 MEASURED DATIM: NAVDER

CGS "Q 591 RESET" BRASS DISK LOCATED IN WARM SPRINGS, APPROX 0.5 MILE SE'LY ALONG THE UNION PACIFIC RAILROAD FROM THE JUNCTION OF WARREN AVE, (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 45.84" DATUM: NAVD88

CGS "N 874" BRASS DISK LOCATED IN WARM SPRINGS, IN TOP OF THE SW END OF THE NW ABUTMENT OF THE MISSION BOULEVARD UNDERPASS. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 48.33' (RECORD) 48.256 MEASURED DATUM: NAVDRR

CAGS "K 179 RESET" BRASS DISK LOCATED IN CITY OF MILPITAS, IN THE TOP OF THE SE CONC WALL OF AN 8 BY 9 FOOT CONC CATCH BASIN. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 51.91 DATUM: NAVD88

CADH "VASONA" SURVEY DISK LOCATED IN TOP OF CONC MON, LOCATED IN LOS GATOS AT THE INTERSECTION. OF STATE HWY 9 AND UNIVERSITY AVE, LOCATED AT VASONA DAM. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) FIEVATION= 307.67 DATUM: NAVD88

NGS "I 19=96 RESET" DISK LOCATED IN CITY OF SAN JOSE, AT THE INTERSECTION OF 4TH STREET AND E SANTA CLARA STREET., IN A SQUARE CONC BASE. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 80.48' DATUM: NAVDBB

NGS "C 1371" DISK LOCATED IN CITY OF MILPITAS, IN TOP OF THE SE END OF THE NE HEADWALL FOR A 10 BY 15 FOOT CULVERT FOR FLOOD CONTROL. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 16.11' DATUM: NAVD88

NGS "L 1447" DISK LOCATED IN CITY OF SAN JOSE, AT THE INTERSECTION OF COLEMAN AVE AND INTERSTATE HWY 880, IN A CONC WALKWAY OF THE NW ABUTMENT OF COLEMAN AVENUE OVERPASS OF THE INTERSECTION HWY 880. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 77.34' (RECORD) 77.232 MEASURED DATUM: NAVDER

CA-085 "HPGN D CA SAN PEDRO" ALUM DISK LOCATED IN CITY OF SAN JOSE, NEAR THE COUNTY CIVIC CENTER, ABOUT 1 MILE SW OF THE JUNCTION OF US HWY 101 AND INTERSTATE HWY 880. (FOR MORE INFORMATION OF DESCRIPTION GO TO NGS WEBSITE, DATA SHEET) ELEVATION= 60.6' DATUM: NAVD88

DATUM: NADB3

WINT = "WINT WINTON CORS GRM" LOCATED IN CALIFORNIA, THIS STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION. (FOR MORE DETAIL OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) N = 2064265.65' E = 6086755.33' DATUM: NAD83

MHCB = "MT HAMILTON BARD CORS ARP" LOCATED IN CALIFORNIA, THIS STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION. (FOR MORE DETAIL OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) N = 1948852.78' E = 6229522.73' DATIM- NAD83

ZOA1 = "OAKLAND 1 CORS ARP" LOCATED IN CALIFORNIA, THIS STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION. (FOR MORE DETAIL OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) N = 2023759.45' E = 6122181.68 DATUM: NAD83

LUTZ = "LUTZ L 1 PHASE CENTER" LOCATED IN CALIFORNIA, THIS STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION. (FOR MORE DETAIL OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) N = 1929811.75' E = 6164513.21 DATUM: NAD83

CHAB = "CHABOT BARD CORS ARP" LOCATED IN CALIFORNIA, THIS STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION. (FOR MORE DETAIL OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) N = 2090178.88' E = 6093358.53' DATUM: NAD83

# HIGH PRECISION GEODETIC NETWORK (HPGN):

NGS "M 874" THE STATION IS LOCATED IN MILPITAS CALIFORNIA, ABOUT 0.2 MILES N OF STATE HWY 237, ALONG THE UNION PACIFIC RAILROAD. (FOR MORE INFORMATION OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) N = 1984336.90' E = 6153198.63' DATUM: NAD83 ELEVATION = 15.808 MEASURED

"BART 205R"

"BART 206" "BART 268"

"BART 48" N = 1996507.182 E = 6148768.892 ELEVATION = 29,975 (MEASURED)

"BART 266 N = 1997825.965 E = 6148258.986 ELEVATION = 40.344 (MEASURED)

"BART 264" N = 2001811.723 E = 6146682.353 ELEVATION = 45.303 (MEASURED)

"BART 47"



# CONTINUOUSLY OPERATING 66 RFC, Drawings, 10192012.pdf REFERENCE STATION (CORS):

SUAA = "SUAA STANFORD CORS ARP" LOCATED IN CALIFORNIA, THIS STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION. (FOR MORE DETAIL OF DESCRIPTION, GO TO NGS WEBSITE, DATA SHEET) N = 1982253.27' E= 6075814.66'

# BAY AREA RAPID TRANSIT WSX CONTROL POINTS

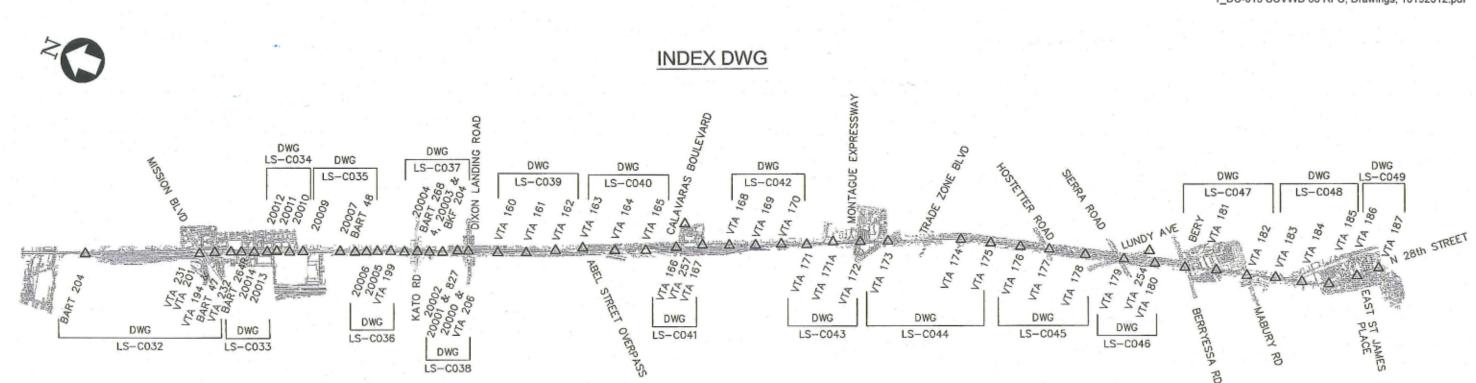
N = 1993049.481 E = 6154314.945 ELEVATION = 90.075 (MEASURED) N = 1991626.622 E = 6150622.920

ELEVATION = 20.837 (MEASURED)

N = 1993826.157 E = 6149797.161 ELEVATION = 22.630 (MEASURED)

N = 2002487.559 E = 6146417.936 ELEVATION = 47.810 (MEASURED)

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1	SURVEY CONTROL DATA NOTES	SZE SCALE D NOT TO SCALE CONTRACT NO. C700 P AREA CODE SHEET NO. LS C030 0183



#### NOTE:

ALL VTA MONUMENTS SET OR FOUND ARE 2" DIAMETER ALUMINUM DISK (EXCEPT AS NOTED) STAMPED "SANTA CLARA VALLEY TRANSPORTATION AUTHORITY" WITH MONUMENT NUMBER (XXX) AND 1/8" DIAMETER DRILLED HOLE. -



COMBINED SCALE FACTOR (PROJECT AVERAGE) GROUND ---> GRID CONVERSIONS: MULTIPLY DISTANCES BY 0.999946673

# VERTICAL CONTROL POINTS

VTA 363

AT MISSION - SET VTA ALUMINUM CAP 363 FLAT IN EAST WALK OF KATO RD 1.0' WEST OF HANDRAIL OVER NORTH ABUTMENT FOR ROADWAY BRIDGE OVER MISSION BLVD ELEVATION = 51.088

VTA 364

AT KATO RD - SET VTA ALUMINUM CAP 364 FLAT IN CONCRETE FOUNDATION FOR POWER LINE TOWER. SECOND TOWER SOUTH OF KATO RD 1.0' (FROM THE EAST) AT EAST SIDE OF 1-880 ELEVATION = 10.144

VTA 365

AT ABEL - SET VTA ALUMINUM CAP 365 IN VERTICAL FACE OF COLUMN, IN WEST FACE OF NORTH COLUMN OF EAST BENT OF BRIDGE FOR ABEL CROSSING RR R/W 4' ABOVE EXISTING GRADE \*\*\* ELEVATION = 17.505

## VTA 366

AT CALAVERAS - SET VTA ALUMINUM CAP 366 IN VERTICAL FACE OF COLUMN, IN WEST FACE OF NORTH COLUMN OF EAST BENT OF BRIDGE FOR CALAVERAS CROSSING RR R/W 1.8' ABOVE EXISTING GRADE \*\*\* ELEVATION = 22.742

	PRESCRIPTIVE
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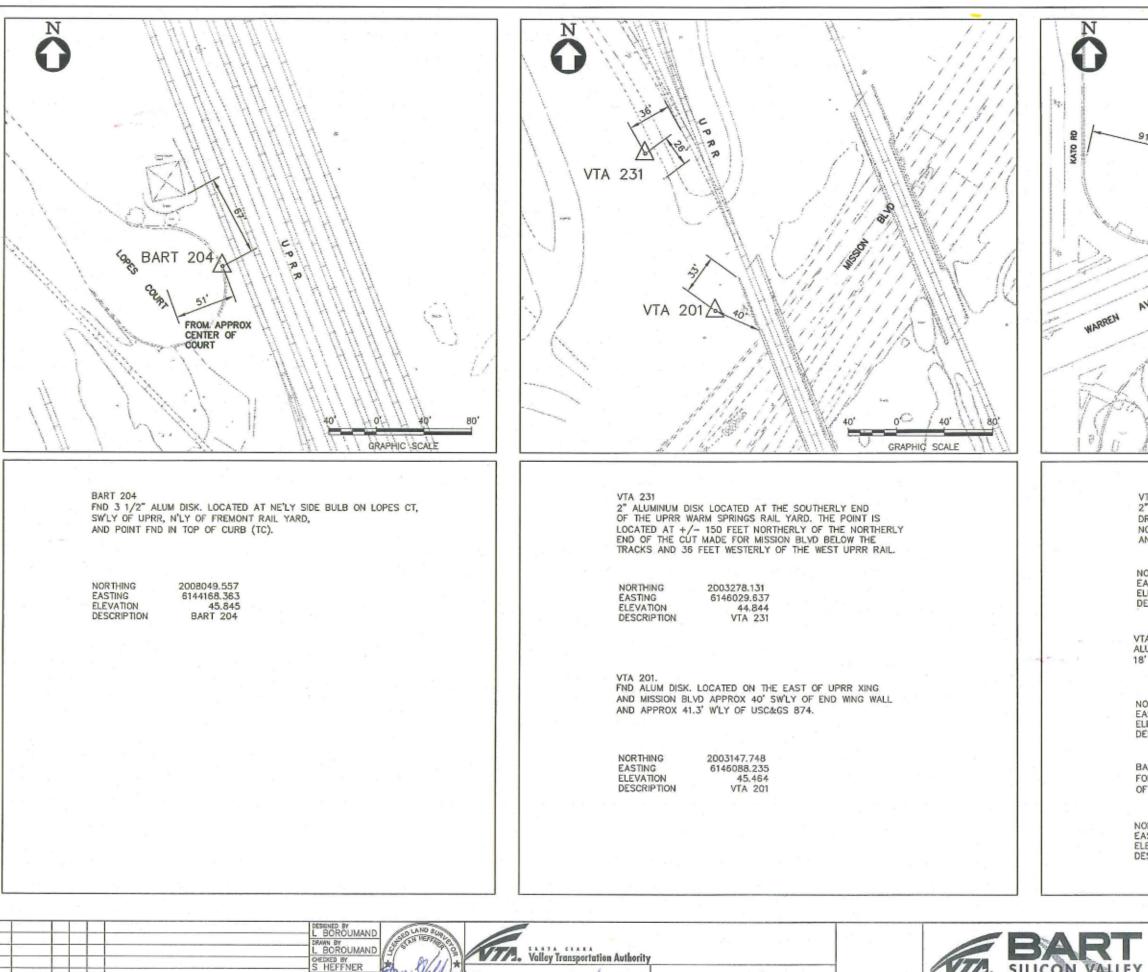
VTA 367

AT CAPITOL - SET VTA ALUMINUM CAP 367 IN VERTICAL FACE OF COLUMN, IN EAST FACE OF SOUTH COLUMN OF THIRD BENT WEST OF RR R/W (BENT FOR LIGHT RAIL AERIAL STRUCTURE) 4' ABOVE EXISTING GRADE \*\*\* ELEVATION = 56.309

VTA 368

AT CAPITOL - SET VTA ALUMINUM CAP 368 IN VERTICAL FACE OF COLUMN, IN WEST FACE SECOND BENT EAST OF RR R/W 4' ABOVE EXISTING GRADE \*\*\* ELEVATION = 57.969

\*\*\* CAP HAS 1/4" X 20" X 1" SET SCREW THAT CAN BE THREADED OUT TO SET THE ROD UPON (REQUIRED 1/8" ALLEN WRENCH). PLEASE THREAD BACK INTO CAP WHEN FINISHED. DO NOT OVER TIGHTEN! CAP HAS A SCRIBED LINE THAT CORRESPONDS TO THE ELEVATION OF THE TOP OF SET SCREW FOR USE IF YOU CAN'T LOOSEN THE SET SCREW.



S HEFFNER

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P 20110311 REQUEST FOR PROPOSAL

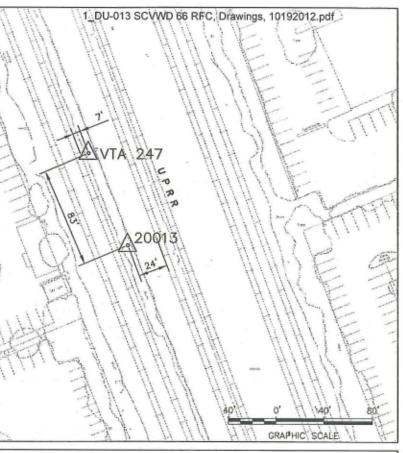
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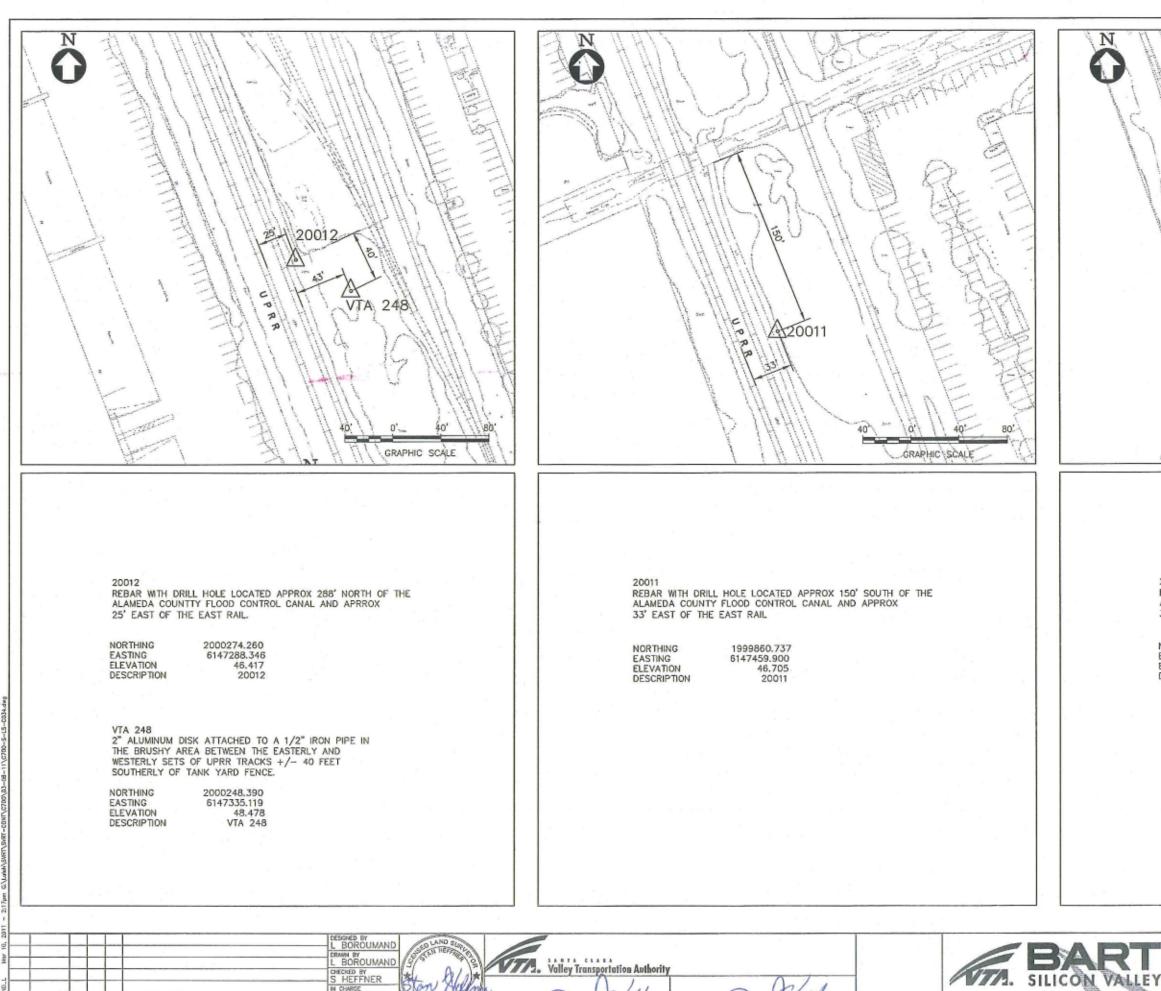
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BU 97: AB
VTA 232 VTA 194
WARREN AVE
BO BO GRAPHIC SCALE
VTA 232 2" ALUMINUM DISK ATTACHED TO A 1/2" IRON PIPE DRIVEN 0.3" BELOW GRADE. DISK IS LOCATED ON THE NORTHERLY SIDE OF WARREN AVE EASTERLY OF KATO RD AND WESTERLY OF THE UPRR TRACKS.
NORTHING         2002570.022           EASTING         6146305.289           ELEVATION         44.427           DESCRIPTION         VTA 232
VTA 194 ALUMINUM DISK LOCATED ON THE CENTER ISLAND OF WARREN AVENUE, 18' EAST OF THE EAST RAIL.
NORTHING         2002521.166           EASTING         6146398.280           ELEVATION         47.626           DESCRIPTION         VTA 194
BART 47 FOUND 3 1/2" ALUMINUM DISK ON THE SOUTHEASTERLY ROW OF WARREN AVENUE, APPROX 24' EAST OF THE EAST RAIL
NORTHING         2002487.559           EASTING         6146417.936           ELEVATION         47.810           DESCRIPTION         BART 47
PRESCRIPTIVE
BART LINE, TRACK, STATIONS AND SYSTEMS
SILICON VALLEY SURVEY CONTROL DATA CTOO P SILICON VALLEY BERRYESSA EXTENSION SHEET 1 OF 18 AREA CODE SHEET NO. PAGE NO. LS CO32 0185

BART 264R		T_DU-013 SCVWD 66 RFC. Drawings, 10192012.pdf
BART 264R 5/8" REBAR AND 3 1/2" ALUMINUM CAP LOCATED APROX 727" FROM THE SOUTHEASTERLY RIGHT OF WAY OF WARREN AVENUE AND 24' EASTERLY FROM THE EAST RAIL.	20014 REBAR WITH DRILL HOLE LOCATED APPROX 1186' FROM FROM THE SOUTHEASTERLY RIGHT OF WAY ON WARREN AVENUE AND APPROX 25' EAST OF THE EAST RAIL.	VTA 247 2" ALUMINUM DISK ATTACHED TO A 1/2" IRON PIPE. LOCATED AT THE CENTERLINE OF A ACCESS ROAD, EASTERLY OF THE EASTERLY SET OF THE TWO WESTERLY SET OF TRACKS.
NORTHING         2001811.723           EASTING         6146682.353           ELEVATION         45.303           DESCRIPTION         BART 264R	NORTHING 2001384.231 EASTING 6146851.731 ELEVATION 45.733 DESCRIPTION 20014	NORTHING 2000905.870 EASTING 6147037.312 ELEVATION 45.772 DESCRIPTION VTA 247
5-ts-coth deg		20013 REBAR WITH DRILL HOLE LOCATED APROX 887' NORTH OF THE ALAMEDA COUNTY FLOOD CONTROL CANAL AND 25' EAST OF THE EAST RAIL
- 1920-1-02-100-1-02-1-1-02-1-02-1-02-1-02		NORTHING         2000829.606           EASTING         6147069.828           ELEVATION         46.174           DESCRIPTION         20013
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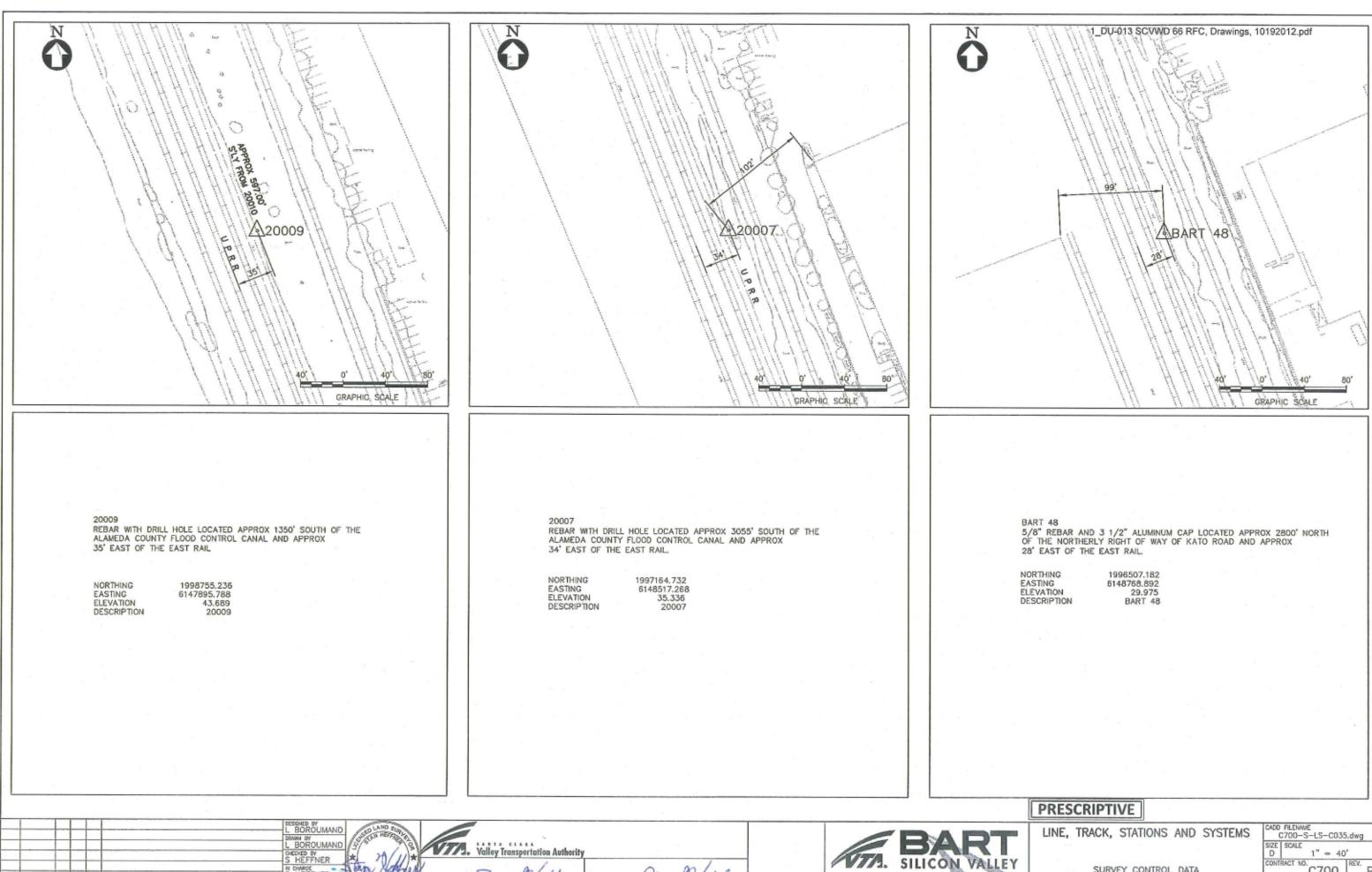
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ALA	010 BAR WITH DRILL HOLE LOCATED APPROX 744' SOUTH O AMEDA COUNTY FLOOD CONTROL CANAL AND APPROX EAST OF THE EAST RAIL	OF THE
EAS	RTHING         1999310.278           STING         6147675.727           VATION         45.738           SCRIPTION         20010	
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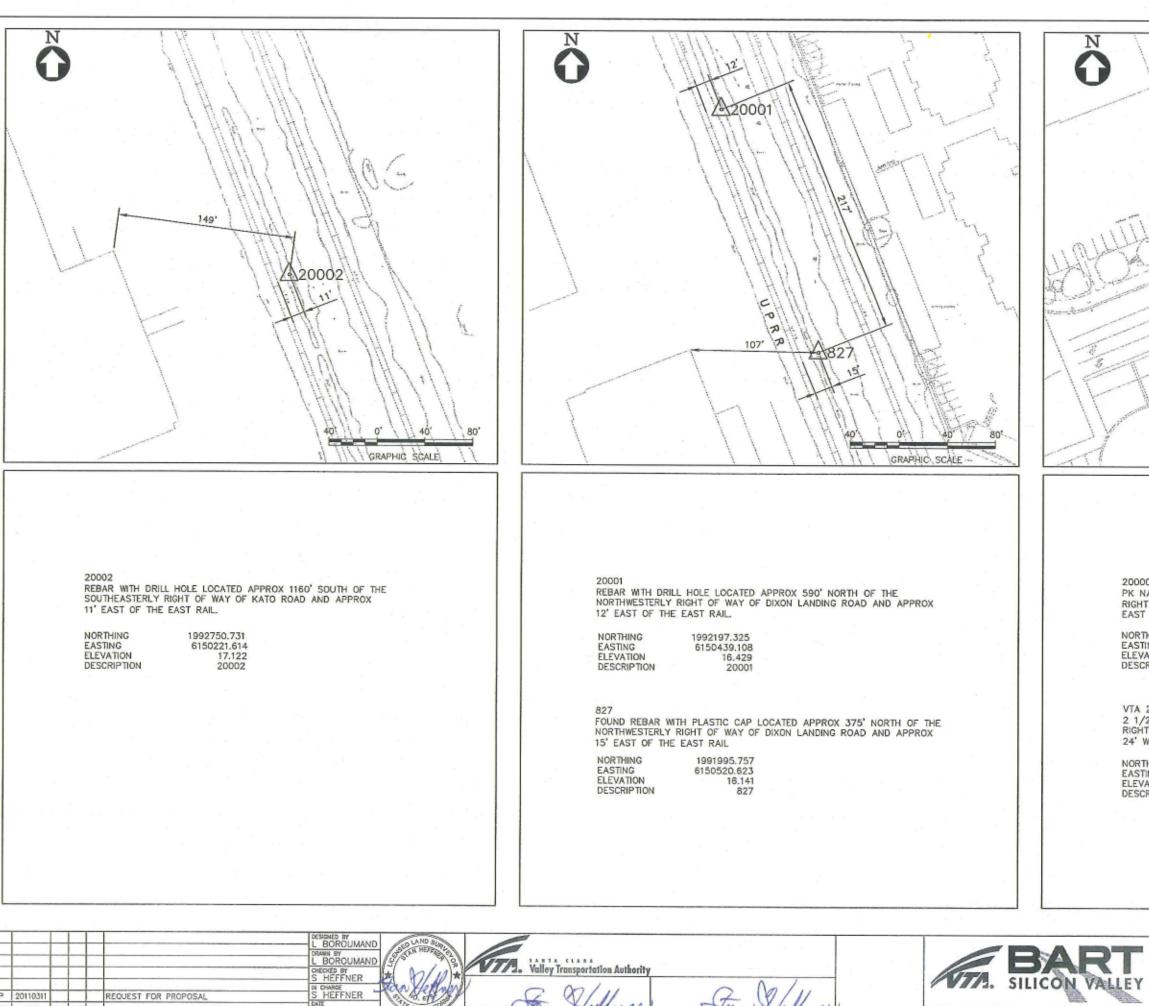
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N N 6 6 127' 120006 20005 17 80' 40' 12 14 GRAPHIC SCALE GRAPHIC SCALE dittor. 20005 REBAR WITH DRILL HOLE LOCATED APPROX 1750' NORTH OF THE NORTHWESTERLY RIGHT OF WAY OF KATO ROAD AND APPROX 40' EAST OF THE EAST RAIL. VTA ALU OF 20006 REBAR WITH DRILL HOLE LOCATED APPROX 2311' NORTH OF THE NORTHWESTERLY RIGHT OF WAY OF KATO ROAD AND APPROX 31' EAST OF THE EAST RAIL. AND NORTHING EASTING ELEVATION DESCRIPTION 1996058.721 6148947.835 27.026 20006 NORTHING EASTING ELEVATION DESCRIPTION 1995540.485 6149160.119 24.929 20005 NOR EAS ELEV DES BOROUMAND BOROUMAND Valley Transportation Authority SILICON VALLET S HEFFNER N CHARGE S HEFFNER REQUEST FOR PROPOSAL P 20110311 SUBMITTED ATAM Huffner APPROVED Fran REV DATE BY SUB APP DESCRIPTION 20110311 ner

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VTA 19 ALUMIN OF THE AND AF	9 UM DISK LOCATED APPROX 1150' NORTH NORTHWESTERLY RIGHT OF WAY OF KATO ROAD PROX 33' EAST OF THE EAST RAIL.					
IORTHI ASTING LEVATI ESCRIF	6149373.631 ON 22.258					
	PRESCRIPTIVE					
	LINE, TRACK, STATIONS AND SYSTEMS	CADD FILENAME C700-S-LS-C036.dwg				
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	KNO ROAD KNO ROAD BART 268	1_DU-013 SCVWD 86 RFC, Drawings, 10192012,pdf
20004 REBAR WITH DRILL HOLE LOCATED APPROX 520' NORTH OF THE NORTHWESTERLY RIGHT OF WAY OF KATO ROAD AND APPROX 31' FEET EAST OF THE EAST RAIL. NORTHING 1994389.535 EASTING 614960.742 ELEVATION 20.205 DESCRIPTION 20004	BART 288 2 1/2" BRASS DISK LOCATED ON THE SOUTHEASTERLY RIGHT OF WAY OF KATO ROAD AND APPROX 8" EAST FROM THE EAST RAIL. NORTHING 1993826.157 EASTING 6149797.161 ELEVATION 22.630 DESCRIPTION BART 268	4         FOUND REBAR WITH PLASTIC CAP LOACTED APPROX 10' NORTH OF SCOTT CREEK         AND APPROX 24' EAST OF THE EAST RAIL.         NORTHING       1993342.844         EASTING       6150003.805         ELEVATION       15.321         DESCRIPTION       4         20003       REBAR WITH DRILL HOLE LOCATED APPROX 22' SOUTH OF SCOTT CREEK         AND APPROX 15' EAST OF THE EAST RAIL         NORTHING       1993310.261         EASTING       6150003         DESCRIPTION       17.143         DESCRIPTION       20003         BKF 204       FOUND REBAR WITH PLASTIC CAP LOACTED APPROX 42' SOUTH OF SCOTT CREEK         NORTHING       1993275.702         EASTING       6149957.094         ELEVATION       0.000         DESCRIPTION       BKF 204         NORTHING       1993275.702         EASTING       6149957.094         ELEVATION       0.000         DESCRIPTION       BKF 204
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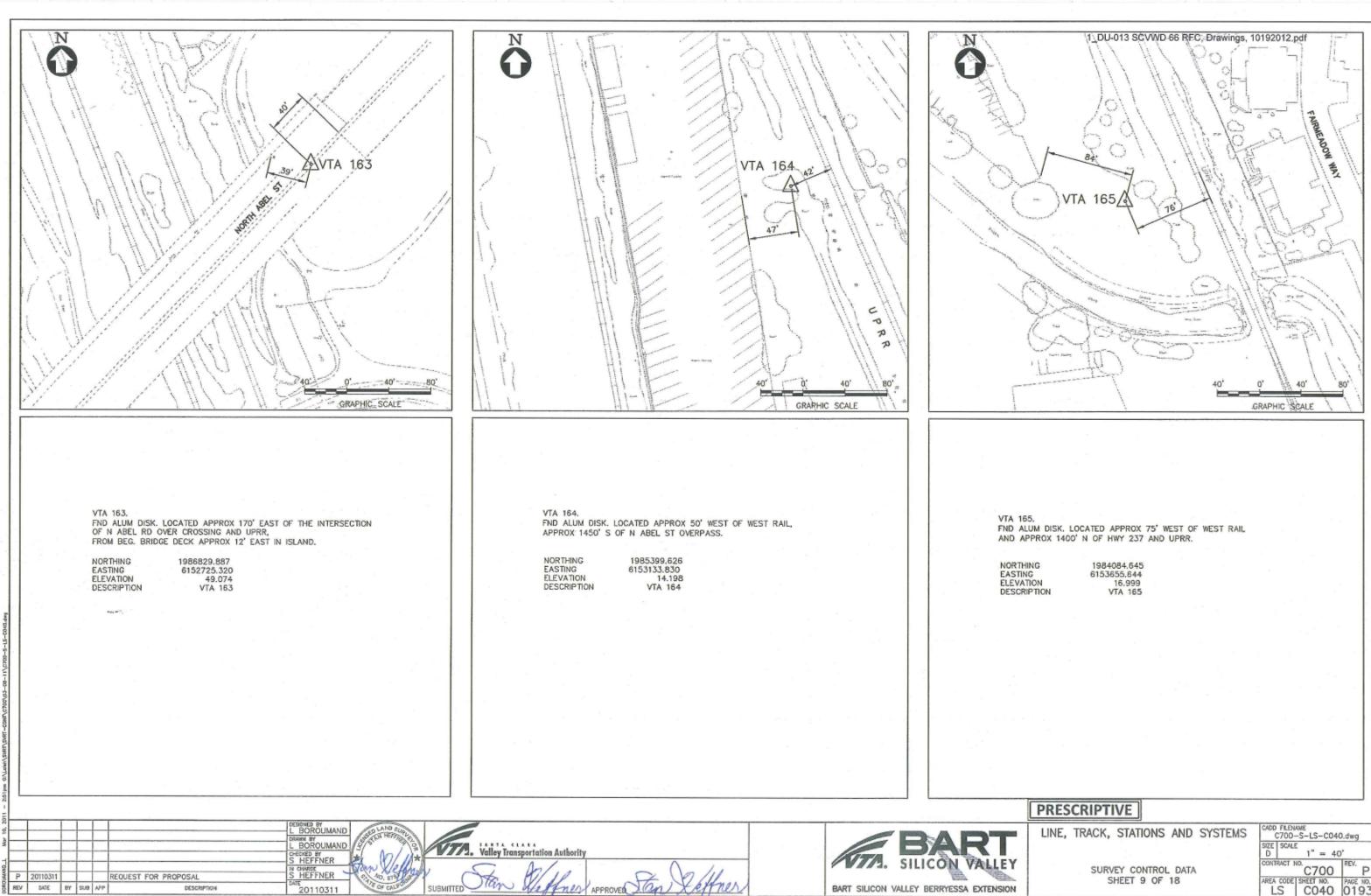
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/2" HT (	6 = BART 206 BRASS DISK LOCATED ON THE NORTHWESTERLY DFF WAY OF DIXON LANDING ROAD AND APPROX ST OF THE EAST RAIL.	
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ī	LINE, TRACK, STATIONS AND SYSTEMS	CADD FILENAME C700-S-LS-C038.dwg
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О           2°-1           2°-1           Дута 160           11           11           11           11           11           11           11           11           12           13		TUDU-013 SCVWD 66 RFC, Drawings, 10192012.pdf
VTA 160 FND ALUM DISK. LOCATED IN THE CITY OF MILPITAS. LOCATED APPROX 1289' S OF DIXON LANDING RD AND UPRR, OPPOSITE SIDE OF SOFTBALL FIELDS ON MILMONT DR, APPROX 20' OF SOUND WALL, AND APPROX 25' WEST OF WEST RAIL. NORTHING 1990390.811 EASTING 6151107.471 ELEVATION 14.237 DESCRIPTION VTA 160	VTA 161 FND ALUM DISK. LOCATED APPROX 2640' SOUTH OF THE INTERSECTION OF UPRR AND DIXON LANDING RD AND APPROX 25' WEST OF WEST RAIL NORTHING 1989167.225 EASTING 6151587.519 ELEVATION 12.055 DESCRIPTION VTA 161	VTA 162 FND ALUM DISK. LOCATED AT THE SE COR OF THE INTERSECTION OF CALERA CREEK AND UPR, APPROX 5' E'LY OF A TELEGRAPH POLE AND APPROX 15' SOUTH OF THE CL OF CALERA CREEK. NORTHING 1987955.521 EASTING 6152127.752 ELEVATION 15.153 DESCRIPTION VTA 162
100     0ESIGNED BY       100     1 <t< td=""><td></td><td>PRESCRIPTIVE         BARTELICON VALLEY         Y BERRYESSA EXTENSION         LINE, TRACK, STATIONS AND SYSTEMS         SURVEY CONTROL DATA SHEET 8 OF 18         AREA CODE         SHEET 8 OF 18</td></t<>		PRESCRIPTIVE         BARTELICON VALLEY         Y BERRYESSA EXTENSION         LINE, TRACK, STATIONS AND SYSTEMS         SURVEY CONTROL DATA SHEET 8 OF 18         AREA CODE         SHEET 8 OF 18



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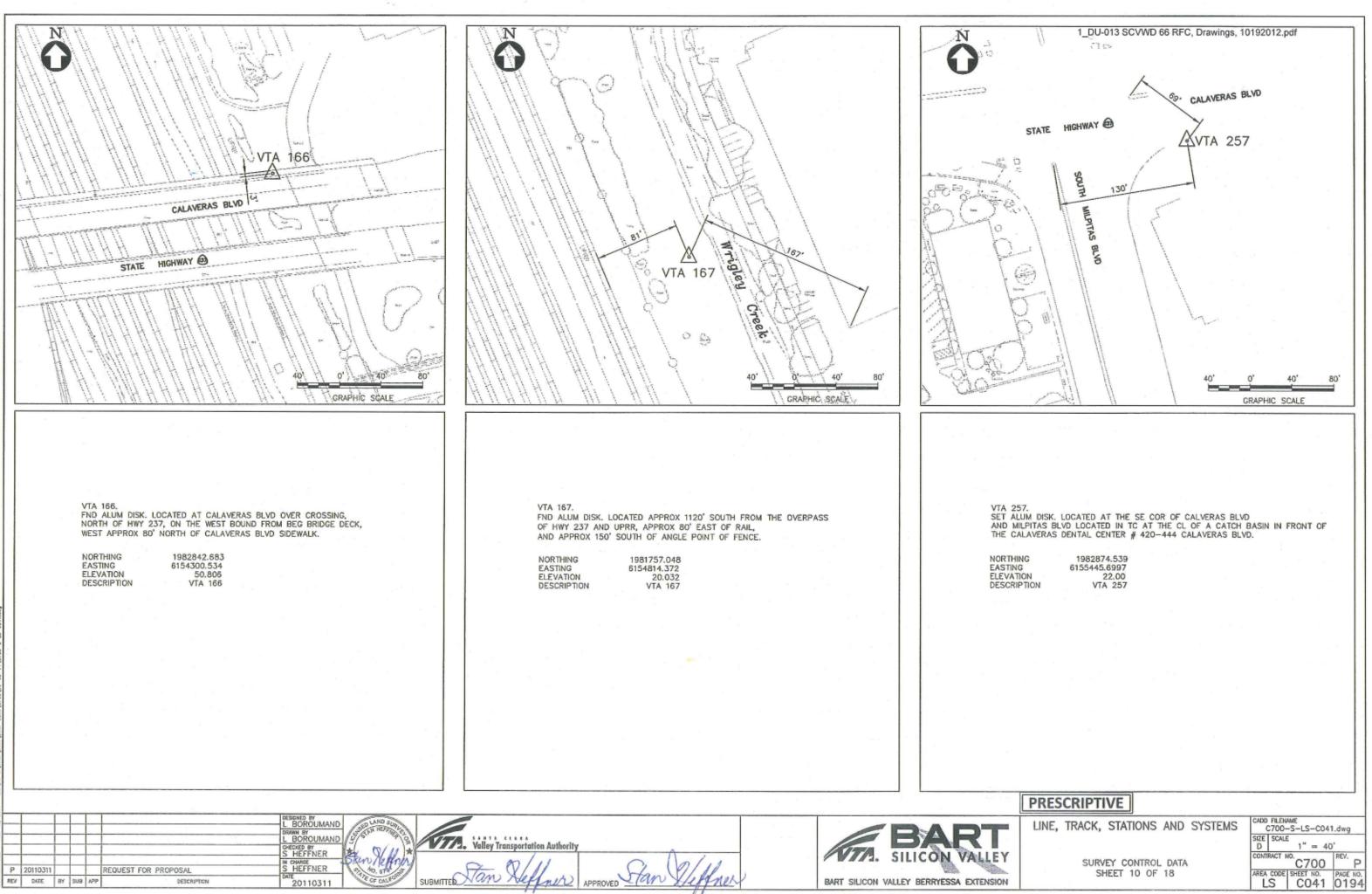
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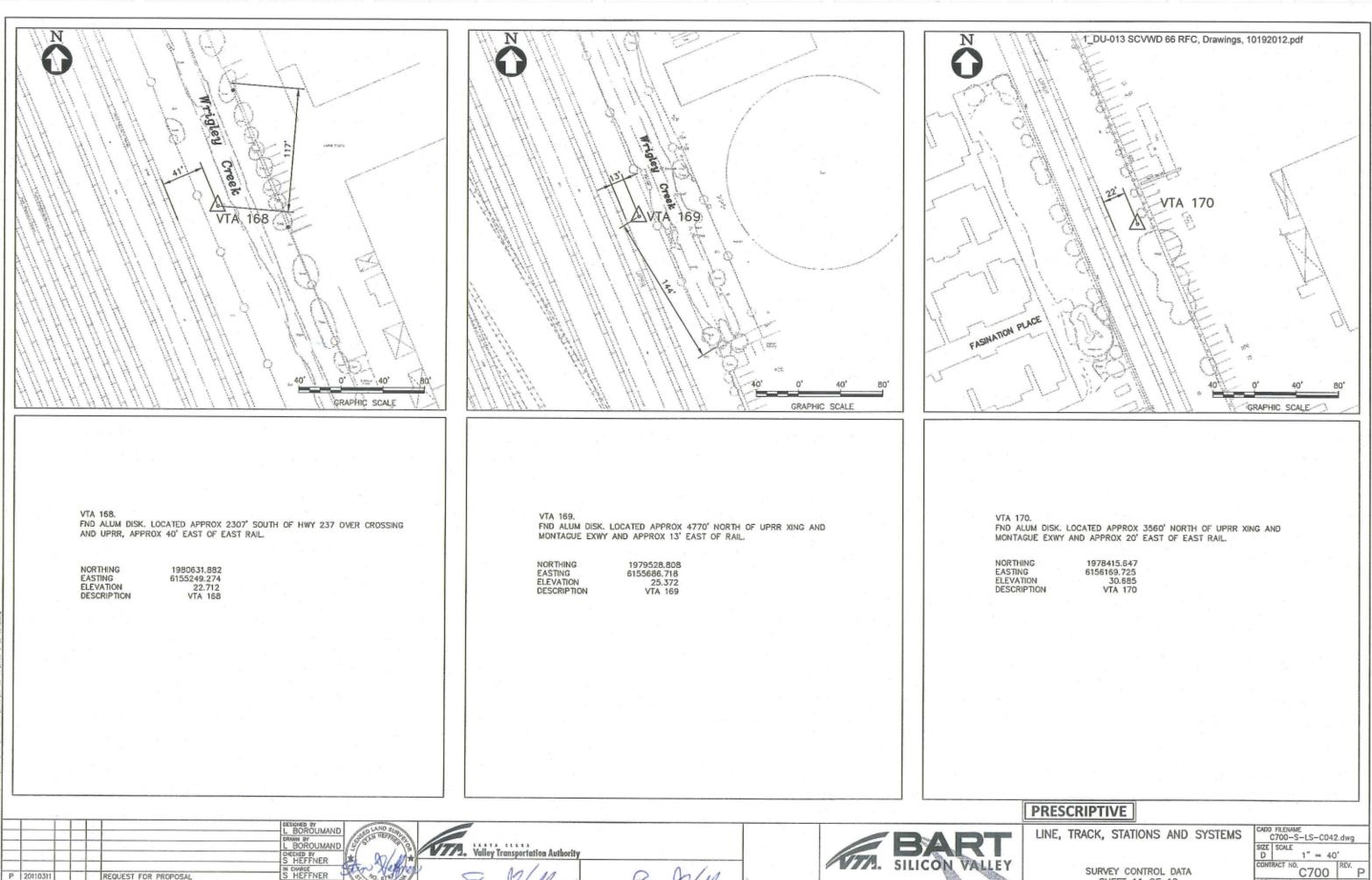
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BART	LINE, TRACK, STATIONS AND SYSTEMS	CADD FILENAME C700-S-LS-C040.dwg SIZE SCALE D 1" = 40'
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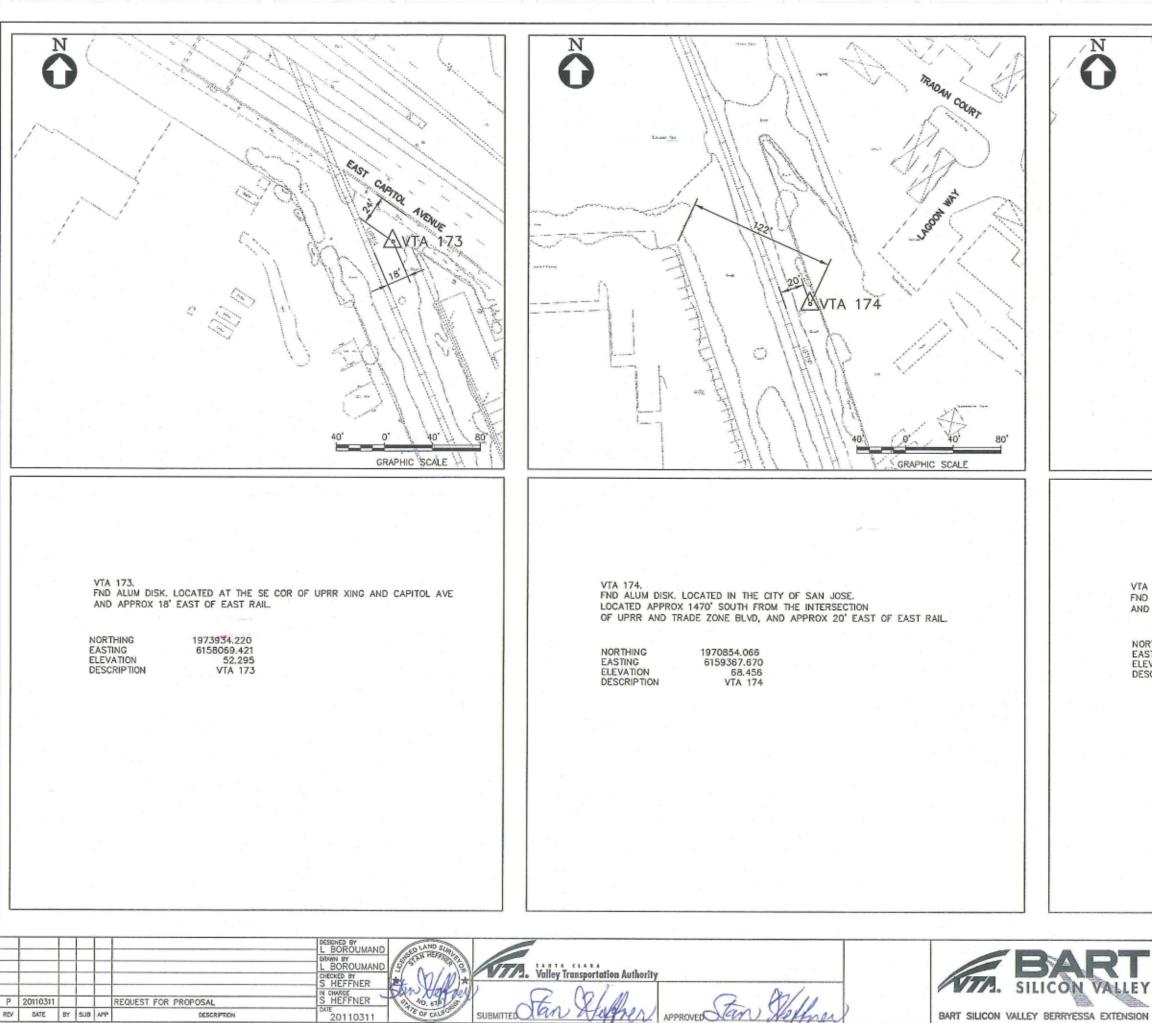
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VTA 171. FND ALUM DISK. LOCATED APPROX 2532' NORTH OF UPRR XING AT MONTAGUE EXWY AND APPROX 10.5' EAST OF EAST RAIL. NORTHING 1977316.880 EASTING 6156626.052 ELEVATION 36.703 DESCRIPTION VTA 171	VTA 171A (17101) FND 2" BRASS DISK IN MON WELL "VTA SANTA CLARA 171A" STAMPING. LOCATED AT DEAD END OF PIPER DR. NORTHING 1976250.923 EASTING 6157139.167 ELEVATION 43.832 DESCRIPTION VTA 171A	VTA 172. FND ALUM DISK. LOCATED AT THE SE COR OF UPRR XING AND MONTAGUE EXWY APPROX 12' SOUTH OF CURB, AND APPROX 30' EAST OF R/R. NORTHING 1975086.174 EASTING 6157606.096 ELEVATION 50.432 DESCRIPTION VTA 172
P 20110311 REQUEST FOR PROPOSAL SHEFFNER	St SU/M ) AZ (V/M)	PRESCRIPTIVE         INE, TRACK, STATIONS AND SYSTEMS         SURVEY CONTROL DATA         SHEET 12 OF 18         AREA CODE         SHEET ND.         LINE, TRACK, STATIONS AND SYSTEMS

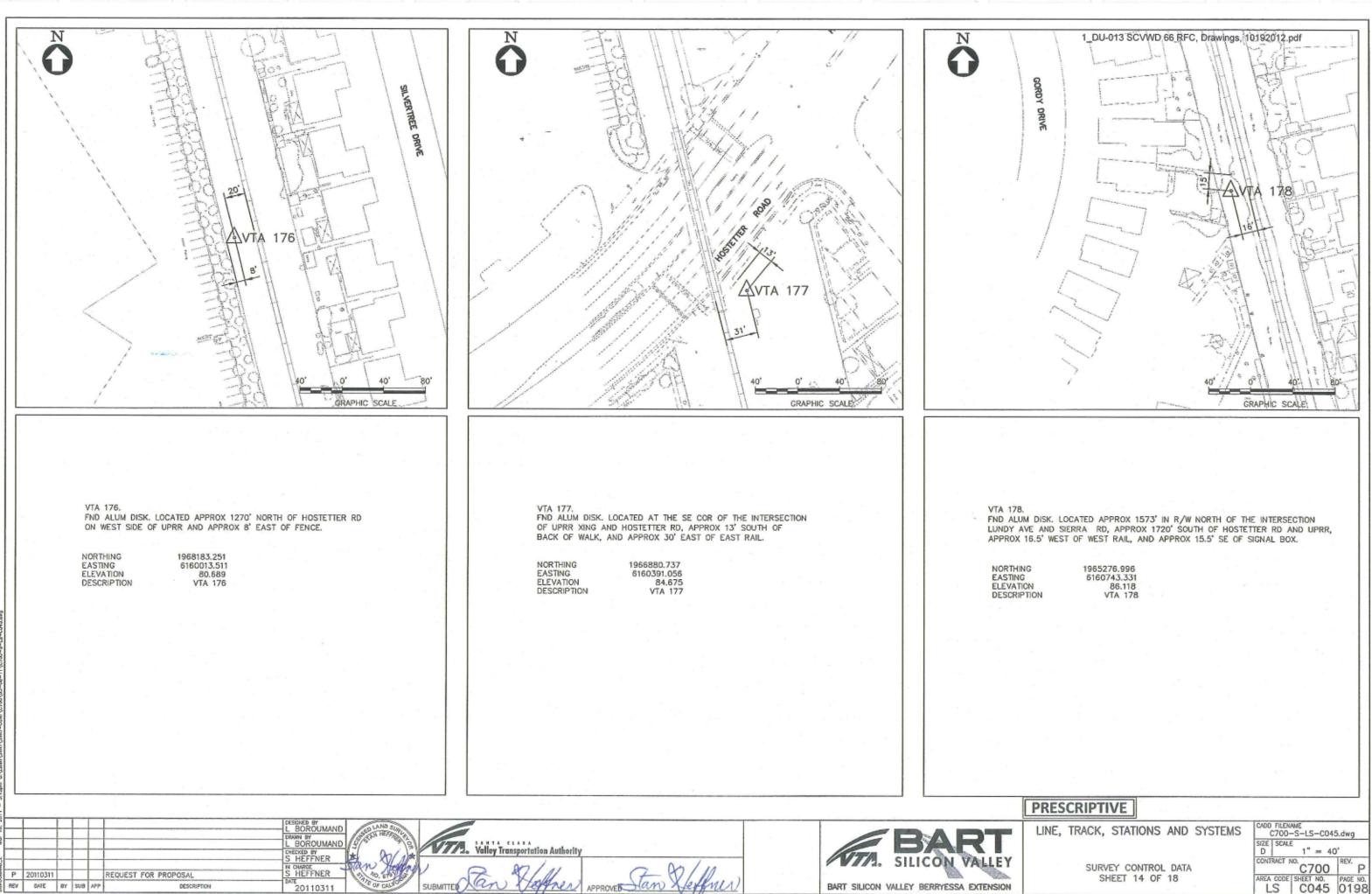


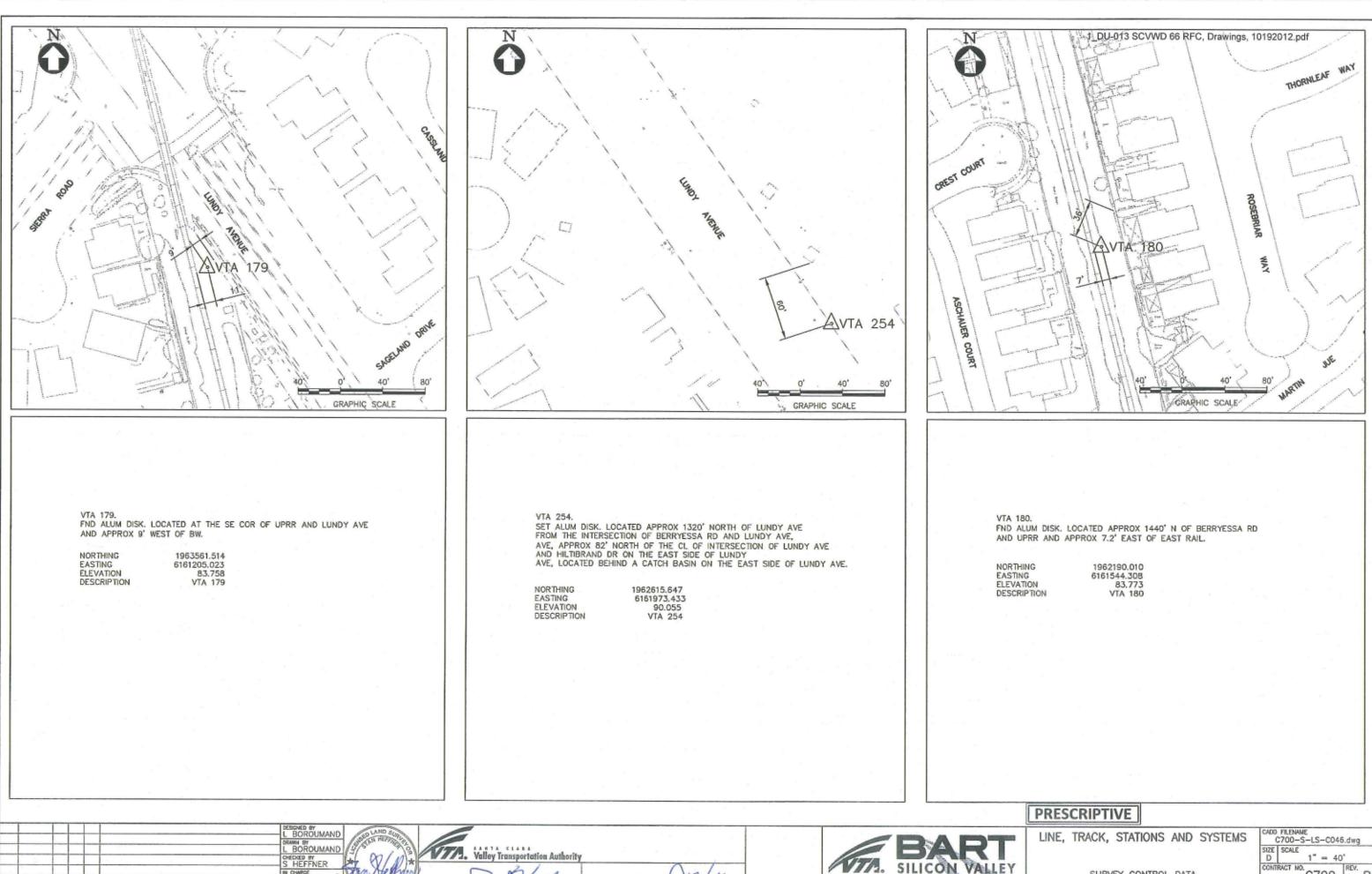
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	VTA 175. FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD AND UPRR AND APPROX 8' EAST OF FENCE LINE.
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD AND UPRR AND APPROX 8' EAST OF FENCE LINE.
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.65D
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD AND UPRR AND APPROX 8' EAST OF FENCE LINE. NORTHING 1969510.650 EASTING 6159682.814 ELEVATION 74.033 DESCRIPTION VTA 175
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033         DESCRIPTION       VTA 175
	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033         DESCRIPTION       VTA 175             PRESCRIPTIVE             LINE, TRACK, STATIONS AND SYSTEMS
RAIL.	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033         DESCRIPTION       VTA 175             PRESCRIPTIVE    LINE, TRACK, STATIONS AND SYSTEMS           CADD FLEMAME C700-5-L5-C044.dwg
BAF	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX B' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033         DESCRIPTION       VTA 175         PRESCRIPTIVE       INNE, TRACK, STATIONS AND SYSTEMS         INNE, TRACK, STATIONS AND SYSTEMS       COD PLEMAME C700-S-LS-C044.dwg         SEE       SCAL         ONTRECT MO       1" = 40"         ONTRECT MO       1980
	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033         DESCRIPTION       VTA 175         PRESCRIPTIVE       INE, TRACK, STATIONS AND SYSTEMS         SURVEY CONTROL DATA       SURVEY CONTROL DATA
BAF	FND ALUM DISK. LOCATED APPROX 2650' NORTH OF HOSTETTER RD         AND UPRR AND APPROX 8' EAST OF FENCE LINE.         NORTHING       1969510.650         EASTING       6159682.814         ELEVATION       74.033         DESCRIPTION       VTA 175         PRESCRIPTIVE       UNE, TRACK, STATIONS AND SYSTEMS         LINE, TRACK, STATIONS AND SYSTEMS       CMDD FLEMAME C700-S-LS-C044.dwg         SURVEY CONTROL DATA SHEET 13 OF 18       1" = 40'         CONDENSE INFORMED       C700         REV. PRACEMENT INTERNED       DESCRIPTION





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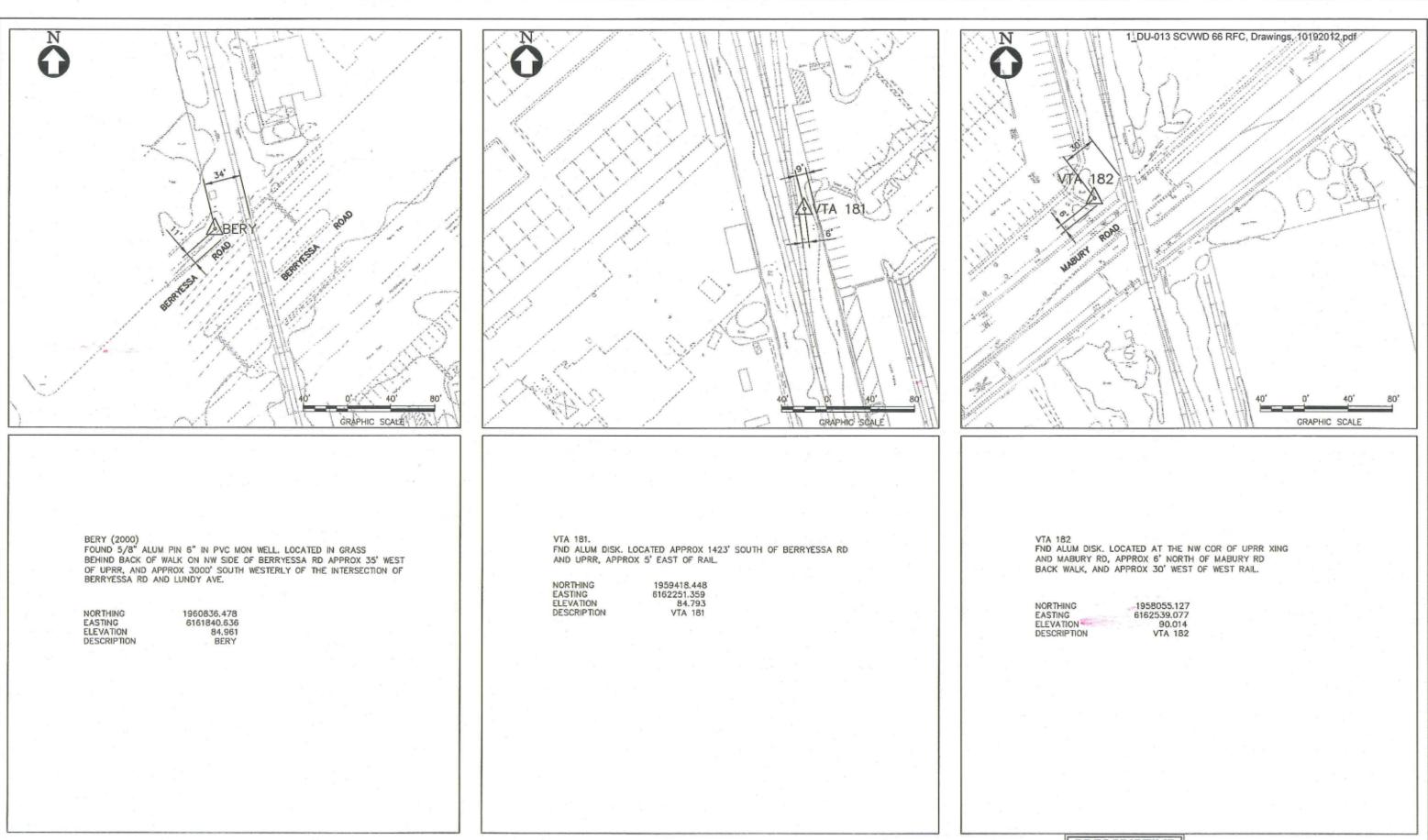
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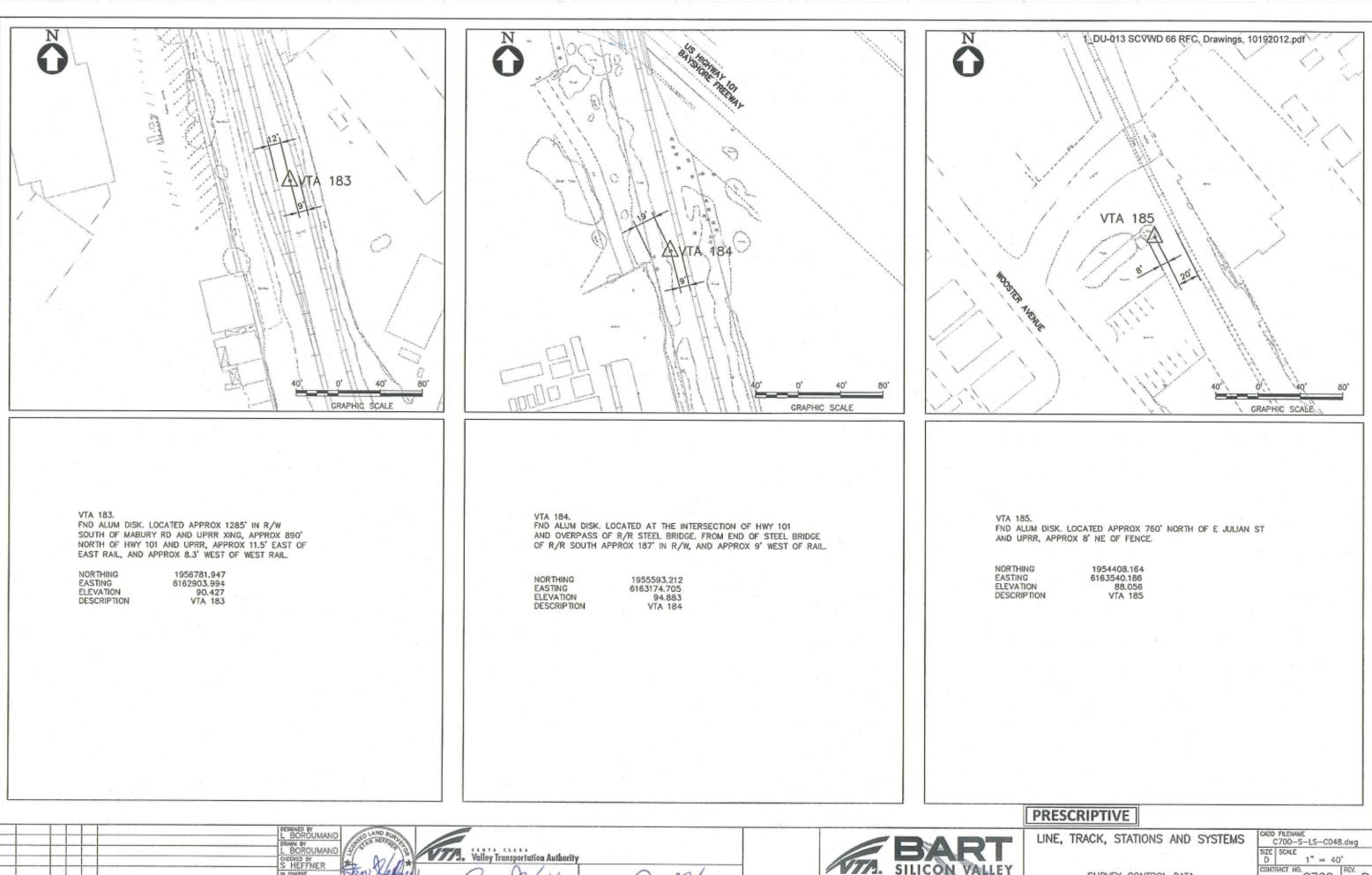
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tion 11 CTOCI - State Accession	VTA 186. FND ALUM DISK. LOCATED AT THE SW COR OF THE INTERSECTION OF E ST JAMES ST AND UPRR AND APPROX 14' WEST OF RAIL. NORTHING 1953317.829 EASTING 6164323.892 ELEVATION 87.155 DESCRIPTION VTA 186	VTA 187. FND ALUM DISK. LOCATED APPROX 261' NORTH OF THE INTERSECTION OF 28TH ST AND ALUM ROCK AVE AND APPROX 57' EAST OF EAST RAIL. NORTHING 1952541.255 EASTING 6164999.058 ELEVATION 88.628 DESCRIPTION VTA 187	
BODGUMWALL Mar 10, 2011 - 31Amm GALMMANARTASMPT-CONTACTOR	P 20110311 PEOLIEST FOR PROPOSAL NEWFILM	2. Valley Transportation Authority De Tan Highen Approved to Apply the Apply of th	PRESCRIPTIVE         INE, TRACK, STATIONS AND SYSTEMS         SURVEY CONTROL DATA         SURVEY CONTROL DATA         SHEET 18 OF 18

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BART	LINE, TRACK, STATIONS AND SYSTEMS	CADD FILENAME C700-S-LS-C049.dwg SIZE SCALE D 1" = 40'
BART SILICON VALLEY	SURVEY CONTROL DATA SHEET 18 OF 18	CONTRACT NO. AREA CODE SHEET NO. LS CO49 0202