

Westside Subway Extension

Final Environmental Impact Statement/Environmental Impact Report—Volume 3

APPENDIX A: Plan and Profile, and Typical Section Drawings

APPENDIX B: Station Plan Report





WESTSIDE SUBWAY EXTENSION PROJECT

APPENDIX A

Plan & Profile and Typical Section Drawings



March, 2012

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

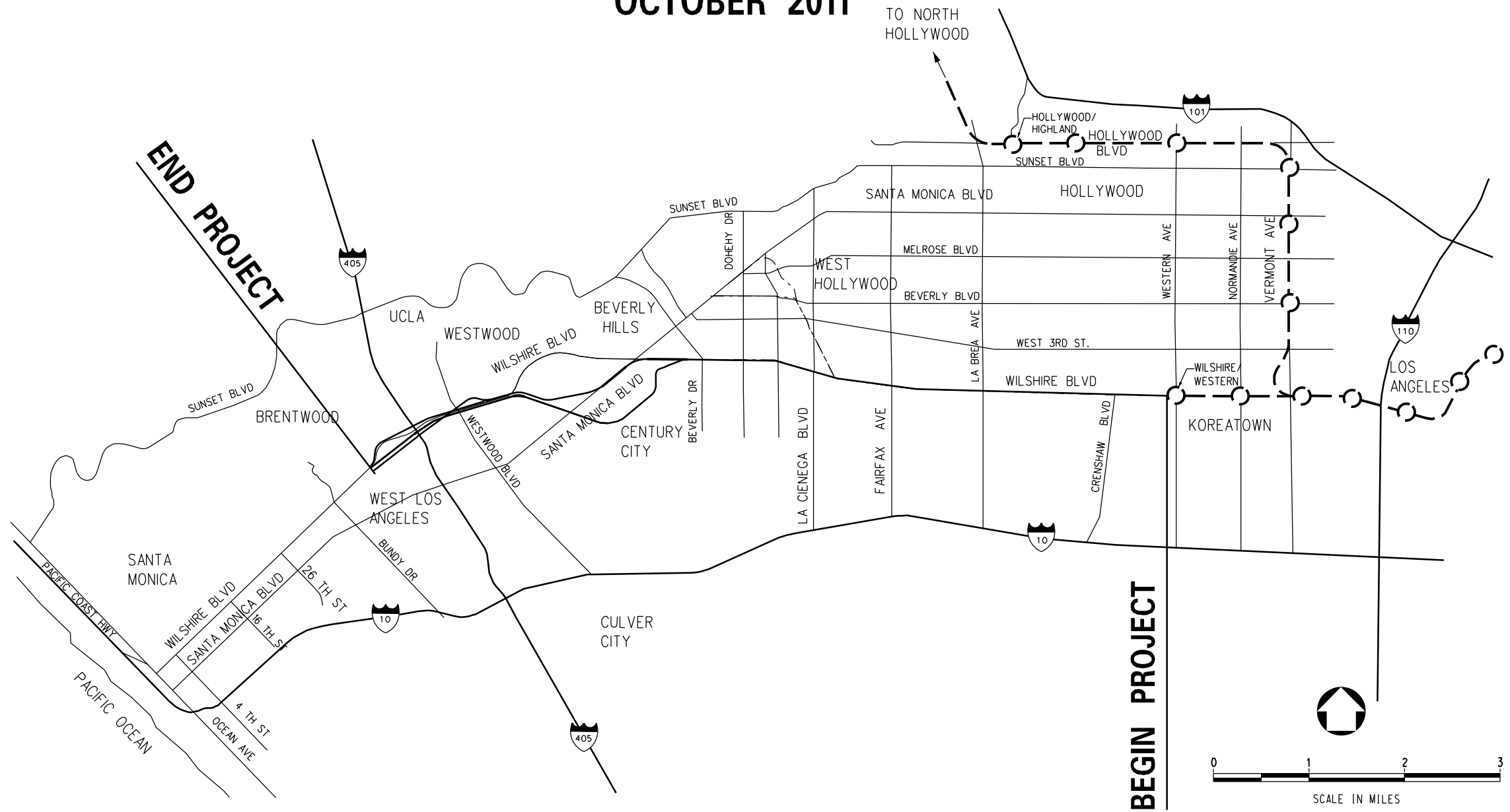
WESTSIDE SUBWAY EXTENSION

FINAL EISEIR DRAWINGS

LOCALLY PREFERRED ALTERNATIVE

PLAN & PROFILE AND TYPICAL SECTION DRAWINGS

OCTOBER 2011



Metro



INDEX OF DRAWINGS

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CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	C. GRIFFITH
DRAWN BY	C. GRIFFITH
CHECKED BY	S. ALDRETE
IN CHARGE	R. CHOY
DATE	AUGUST 2011

Metro

PROJECT MANAGER

**LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY**

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A

INDEX OF DRAWINGS

CONTRACT NO		
DRAWING NO	G-001	REV B
SCALE		
SHEET NO		

User Name: \$USER \$DATE 8 \$TIME 8 \$FILE \$

STANDARD ABBREVIATIONS

TRACK ALIGNMENT - HORIZONTAL

CS	CIRCULAR CURVE TO SPIRAL
PC	POINT OF CIRCULAR CURVE
PI	POINT OF INTERSECTION OF TWO TANGENTS
PT	POINT OF TANGENCY
TS	TANGENT TO SPIRAL
SC	SPIRAL TO CIRCULAR CURVE
SS	SPIRAL TO SPIRAL
ST	SPIRAL TO TANGENT OR SHORT TANGENT
CC	CENTER OF CIRCULAR CURVE
LC	LONG CHORD
DC	DEGREE OF CURVE
Δc	CENTRAL ANGLE OF CIRCULAR CURVE
Es	EXTERNAL DISTANCE
I	TOTAL INTERSECTION ANGLE
K	DISTANCE FROM TS TO PC ALONG TANGENT
L	TOTAL LENGTH OF CURVE
Lc	TOTAL LENGTH OF CIRCULAR CURVE
Ls	TOTAL LENGTH OF SPIRAL
Ls1	LENGTH OF SPIRAL IN
Ls2	LENGTH OF SPIRAL OUT
LT	LONG TANGENT
P	OFFSET DISTANCE FROM TANGENT TO PC, SPIRAL THROW
POS	POINT ON SPIRAL
POT	POINT ON TANGENT
POC	POINT ON CIRCULAR CURVE
Rc	RADIUS OF CIRCULAR CURVE
Tc	TANGENT LENGTH OF CIRCULAR CURVE
Ts	TANGENT DISTANCE FROM TS OR ST TO PI
Bs	SPIRAL ANGLE
X	TANGENT DISTANCE FROM TS TO SC OR ST TO CS
Y	TANGENT OFFSET TO SC OR CS
Er	TOTAL SUPERELEVATION
Eo	ACTUAL SUPERELEVATION
Eu	UNBALANCED SUPERELEVATION
PS	POINT OF SWITCH
PITO	POINT OF INTERSECTION OF TURNOUT
PRC	POINT OF REVERSE CIRCULAR CURVE
POB	POINT OF BEGINNING
POE	POINT OF END

TRACK ALIGNMENT - VERTICAL

VC	VERTICAL CURVE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
POVC	POINT ON VERTICAL CURVE
L	LENGTH OF VERTICAL CURVE
MO	MIDDLE ORDINATE

UTILITY COMPANY / AGENCY ABBREVIATIONS

AAR	AMERICAN ASSOCIATION OF RAILROADS
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ACI	AMERICAN CONCRETE INSTITUTE
AF	U.S. AIR FORCE
AM STATE	W. AMERICAN STATES WATER COMPANY (NOW LACOW)
ARCO	ATLANTIC RICHFIELD COMPANY (NOW FOUR CORNERS PIPELINE COMPANY)
AREMA	AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS

AT&SF	ATKINSON, TOPEKA AND SANTA FE RAILWAY COMPANY
BPL	BUREAU OF POWER AND LIGHT (NOW LA DWPPS)
BWS	BUREAU OF WATER SUPPLIES (NOW LA DWPPS)
CALTRANS	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
CON WCO	CONSERVATIVE WATER COMPANY (NOW LACOW)
DWPWS	CITY OF LOS ANGELES, DEPARTMENT OF WATER AND POWER, WATER SYSTEM
DWPPS	CITY OF LOS ANGELES, DEPARTMENT OF WATER AND POWER, POWER SYSTEM
EMC	ENGINEERING MANAGEMENT CONSULTANT
FHWA	FEDERAL HIGHWAY ADMINISTRATION
FTA	FEDERAL TRANSPORTATION ADMINISTRATION
GP	GENERAL PETROLEUM (NOW MOBIL OIL)
GSD	CITY OF LOS ANGELES, GENERAL SERVICES DIVISION
GTE	GENERAL TELEPHONE COMPANY
LA	CITY OF LOS ANGELES
LACFCO	LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
LACMTA	LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
LACO	COUNTY OF LOS ANGELES
LACOW	LOS ANGELES COUNTY WATER WORKS
LACSD	LOS ANGELES COUNTY SANITATION DISTRICTS
LACTC	LOS ANGELES COUNTY TRANSPORTATION COMMISSION (NOW LACMTA)
LADOT	CITY OF LOS ANGELES, DEPARTMENT OF TRANSPORTATION
LADWP-PS	CITY OF LOS ANGELES, DEPARTMENT OF WATER & POWER, POWER SYSTEMS
LADWP-WS	CITY OF LOS ANGELES, DEPARTMENT OF WATER & POWER, WATER SYSTEMS
LAG	LOS ANGELES GAS (NOW SCG OR TGC)
LAG&E	LOS ANGELES GAS & ELECTRIC (NOW SCG, TGC AND DWPPS)
LAND	LOS ANGELES WATER DEPARTMENT (NOW DWPWS)
LAX	LOS ANGELES INTERNATIONAL AIRPORT
LB	CITY OF LONG BEACH
MTA	LOS ANGELES METROPOLITAN TRANSPORTATION AUTHORITY
MWD	METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
PAC BELL/PB	PACIFIC BELL COMPANY
PAS	CITY OF PASADENA
PACTEL, PTT	PACIFIC TELEPHONE & TELEGRAPH COMPANY
PUC	PUBLIC UTILITY COMMISSION
RCC	RAIL CONSTRUCTION CORPORATION
SATIVACOW	SATIVA COUNTY WATER (NOW SATIVA WATER DISTRICT)
SCE	SOUTHERN CALIFORNIA EDISON COMPANY
SCAL W	SOUTHERN CALIFORNIA WATER COMPANY (NOW LACOW)
SCG	SOUTHERN CALIFORNIA GAS COMPANY (NOW THE GAS COMPANY)
SCRTD	SOUTHERN CALIFORNIA RAPID TRANSIT DISTRICT (NOW LACMTA)
SCT	SOUTHERN CALIFORNIA TELEPHONE COMPANY (NOW PACIFIC BELL)
SCWCO	SOUTHERN CALIFORNIA WATER COMPANY
SO PAC P	SOUTHERN PACIFIC PIPELINE COMPANY
SPTC OR SP	SOUTHERN PACIFIC TRANSPORTATION COMPANY
SO PAS	CITY OF SOUTH PASADENA
SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
STD OIL CO	STANDARD OIL COMPANY OF CALIFORNIA
TGC	THE GAS COMPANY (FORMERLY SOUTHERN CALIFORNIA GAS COMPANY)
TM-CATV	TIMES MIRROR CABLE TELEVISION (NOW SIMMONS CABLE TELEVISION)
UBC	UNIFORM BUILDING CODE
US	UNITED STATES
USC & GS	UNITED STATES COAST AND GEODETIC SURVEY
WUT	WESTERN UNION TELEGRAPH COMPANY (NOW ATS PART OF MC1)

MISCELLANEOUS

&	AND
@	AT

APPROX. APP	APPROXIMATE OR APPROXIMATELY
AB	AGGREGATE BASE
ABND	ABANDONED
ABS	ACRYLONITRILE-BUTADIENE-STYRENE
ABUT	ABUTMENT
AC	ASPHALT CONCRETE OR ASBESTOS CEMENT
ACC	ASPHALT CEMENT CONDUIT
ACD	ASPHALTIC CONCRETE DUCT
ACL	AUXILIARY CONTROL LINE
ACP	ASBESTOS CEMENT PIPE
AGGR	AGGREGATE
AHD	AHEAD
AL	ALUMINUM OR LEFT TRACK - LINE A
ALIGN	ALIGNMENT
APP	APPROVED (REF)
APPROX	APPROXIMATELY
APPV	APPROVED
AR	RIGHT TRACK - LINE A
AS	AGGREGATE SUB-BASE
ASB	ASBESTOS
ASPH	ASPHALT
ATC	AUTOMATIC TRAIN CONTROL
AVE	AVENUE
AWG	AMERICAN WIRE GAUGE (GAGE)
A/R	AS REQUIRED
BB	BILLBOARD
BCOP	BARE COPPER
BCR	BEGIN CURB RETURN
BEG	BEGIN OR BEGINNING
BF	BOTTOM FACE
BFP	BACKFLOW PREVENTER
BIT	BITUMINOUS
BK	BACK
BL	BASELINE, BUILDING LINE OR LEFT TRACK-LINE B
BLDG	BUILDING
BLS	BLUE LIGHT STATION
BLVD	BOULEVARD
BM	BENCH MARK
BO	BLOW-OFF
BOC	BOTTOM OF CURB
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF SLOPE
BP	BEGIN PLATFORM
BSMT	BASEMENT
BRDG	BRIDGE
BRG	BEARING
BRK	BRICK
BRS	BLAST RELIEF SHAFT
BS	BELL AND SPIGOT
BUR CA	BURIED CABLE
BW	BOTTOM OF WALL OR BACK OF WALK
B TO B	BACK TO BACK
B-PC	SCHEDULE B - PLASTIC CONDUIT
C	CURB OR CONDUIT
CA	CABLE OR COMPRESSED AIR
CAB	CRUSHED AGGREGATE BASE
CB	CATCH BASIN
CBD	CENTRAL BUSINESS DISTRICT
CC-B	CONCRETE CONDUIT-TYPE B
CC-C	CONCRETE CONDUIT-TYPE C
CD	CURB DRAIN
CE	CONCRETE ENCASED
CF	CURB FACE
CFS	CUBIC FEET PER SECOND

C & G	CURB AND GUTTER
COS	CENTER OF GRAVITY, STRAND
CHEM	CHEMICAL
CI	CAST IRON OR CURB INLET
CICLP, CIP(CL)	CAST-IRON CEMENT LINED PIPE
CIP	CAST IRON PIPE
CIRCUM	CIRCUMFERENCE
CISP(ES)	CAST IRON SOIL PIPE (EXTRA STRENGTH)
CJ	CONSTRUCTION JOINT
CL	CURB LINE OR CLASS
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CLG	CEILING
CLR	CLEARANCE OR CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT, COUNTY, OR COMPANY
COL	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
CONC BL	CONCRETE BLOCK
COND	CONDUIT
CONF	CONFERENCE
CONN	CONNECT, CONNECTION, OR CONNECTOR
CONST	CONSTRUCT OR CONSTRUCTION
CONT	CONTINUED, CONTINUOUS, OR CONTINUATION
COORD	COORDINATE
COP	COPPER
COR	CORNER
CORR	CORRUGATE OR CORRUGATED
CP	CONCRETE PIPE OR CEMENT PIPE
CPC	CORRUGATED PLASTIC CONDUIT
C/S	COMMUNICATIONS/SIGNALS
CSG	CASING
CSW	CONCRETE SIDEWALK
CTA	CENTRAL TANGENT ANGLE
CTB	CEMENT TREATED BASE
CU FT	CUBIC FOOT
CU IN	CUBIC INCH
CU YD	CUBIC YARD
CULV	CULVERT
CWD	CREOSOTED WOOD DUCT
CWR	CONTINUOUS WELDED RAIL
C TO C	CENTER TO CENTER
C-PC	SCHEDULE C - PLASTIC CONDUIT
D, d	DEPTH
D, DU, DCT	DUCT
DB	DUCT BANK
DEF	DEFLECTION
DEG	DEGREES
DEPT	DEPARTMENT
DESC	DESCRIPTION
DET	DETAIL
DF	DIRECT FIXATION
DG	DIESEL GAS OR DRY GAS
DI	DUCTILE IRON, DROP INLET
DIA OR Ø	DIAMETER
DIAG	DIAGRAM
DIM	DIMENSION
DIP(L)	DUCTILE IRON PIPE (LINED)
DIST	DISTRICT OR DISTANCE
DMD	DIAMOND
DMH	DRAINAGE MANHOLE
DML	DEMOLITION
DN	DOWN
DW	DOMESTIC WATER

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

DESIGNED BY	I. SALVATIERRA						
DRAWN BY	I. SALVATIERRA						
CHECKED BY	W. GUO						
IN CHARGE	R. CHOY						
DATE	AUGUST 2011						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	I. SALVATIERRA
DRAWN BY	I. SALVATIERRA
CHECKED BY	W. GUO
IN CHARGE	R. CHOY
DATE	AUGUST 2011



LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
STANDARD
ABBREVIATIONS & SYMBOLS
SHEET 1

CONTRACT NO	
DRAWING NO	G - 002
SCALE	
SHEET NO	
REV	B

STANDARD ABBREVIATIONS

<p>DWG DRAWING DWL DOWEL DWLG DOWELLING DWY DRIVEWAY</p> <p>E EAST, ELECTRIC EA EACH EB EASTBOUND EC END CURVE ECR END CURB RETURN E/E EAST OF EAST RIGHT-OF-WAY LINE EF EACH FACE EHH ELECTRICAL HANDHOLE EL ELEVATION ELEC ELECTRIC OR ELECTRICAL ELECT ELECTRIC (REF) ELEV ELEVATOR OR ELEVATION EMB EMBANKMENT EMH ELECTRICAL MANHOLE E/O EAST OF EOR END OF ROAD EP EDGE OF PAVEMENT OR END PLATFORM EO EQUAL, EQUATION OR EQUALITY ES EXTRA STRENGTH ET END TRACK ETC ET CETERA ETS EMERGENCY TRIP STATION EW EACH WAY E/W EAST OF WEST RIGHT-OF-WAY LINE EX OR EXIST EXISTING EXP EXPANSION EXT EXTERIOR</p> <p>F FIBER FA FIRE ALARM FAC FIRE ALARM CONDUIT FAI FRESH AIR INTAKE FB FIRE ALARM BOX FBM FOOT BOARD MEASUREMENT FBP FUTURE BEGIN PLATFORM FC FIBER CONDUIT OR FIRE CONNECTION FD FIBER DUCT, FLOOR DRAIN OR FIRE DEPARTMENT FDN FOUNDATION FE FLANGED END FEP FUTURE END PLATFORM FF FINISHED FLOOR OR FAR FACE FFE FINISH FLOOR ELEVATION FG FROG GAUGE PLATE OR FINISH GRADE FH FIRE HYDRANT FIN FINISH FL FLOW LINE, FUEL FLG FLANGE FLP FLOW LINE PIPE FLR FLOOR FP FIRE PROTECTION FPS FEET PER SECOND FR FRAME FS FIRE SERVICE, FINISHED SURFACE, OR FAR SIDE FT FOOT OR FEET F TO F FACE TO FACE FWL FIRE WATER LINE FWY FREEWAY</p> <p>G GAS OR GAS LINE</p>	<p>GA GAUGE (GAGE) GALV GALVANIZE OR GALVANIZED GAL(S) GALLON(S) GASO GASOLINE GB GRADE BREAK GM GAS METER GND GROUND GP GENERAL PACKAGE, GAUGE PLATE OR GRADING PLAN GR GRADE, GROUND OR GUARD RAIL PLATE GRS GALVANIZED RIGID STEEL GSC GALVANIZED STEEL CONDUIT GV GATE VALVE GW GUY WIRE</p> <p>H HEIGHT HAP HORIZONTAL ANGLE POINT HB HOSE BIB HC SANITARY SEWER HOUSE CONNECTION HF HEEL OF FROG HH HANDHOLE HL HEEL LENGTH HMMPE HIGH MOLECULAR WEIGHT POLYETHYLENE HORIZ HORIZONTAL HOV HIGH OCCUPANCY VEHICLE HP HIGH PRESSURE, HORSE POWER, HEEL PLATE OR HIGH POINT Hp HORSEPOWER HR HEADROOM OR HOUR HS HIGH STRENGTH STEEL ASTM 432 HWY HIGHWAY</p> <p>ID INSIDE DIAMETER IJ INSULATED JOINT IN INCH OR INCHES INV INVERT IP IRON PIPE</p> <p>JS JUNCTION STRUCTURE JT JOINT</p> <p>K KIP OR KIPS KF KIP-FOOT KLF KIPS PER LINEAR FOOT KSF KIPS PER SQUARE FOOT KV KILOVOLT</p> <p>L LINE, LINING, OR LENGTH LAT LATERAL LBS OR # POUND(S) LB-LA RTP LONG BEACH-LOS ANGELES RAPID TRANSIT PROJECT (METRO BLUE LINE) LD LEAD LF LINEAR FOOT (FEET) LG LONG OR LENGTH LGT LIGHT (REF) LH LEFT HAND LIN FT LINEAR FEET LJ LEADED JOINT LOC LOCATE, LOCATED, OR LOCATION LP LOW PRESSURE OR LOW POINT LPT LOW POINT LRT LIGHT RAIL TRANSIT</p>	<p>LT LEFT LTG LIGHTING</p> <p>M MAIN MACH MACHINE OR MACHINERY MAG MAGNESIUM OR MAGNETIC MAINT MAINTENANCE MAX MAXIMUM MBL METRO BLUE LINE MCD MULTIPLE CONCRETE DUCT MCWD MULTIPLE CREOSOTED WOOD DUCTS MECH MECHANICAL MGL METRO GREEN LINE MH MANHOLE MIN MINIMUM, MINUTES MISC MISCELLANEOUS MJ MECHANICAL JOINT ML MORTAR LINED ML & C MORTAR LINED & COATED MON MONUMENT MP MEDIUM PRESSURE MPH MILES PER HOUR MRL METRO RED LINE MTC MULTI-TILE CONDUIT MTD MULTI-TILE DUCT</p> <p>N NORTH N/A NOT APPLICABLE NB NORTHBOUND NF NEAR FACE NIC NOT IN CONTRACT N/N NORTH OF NORTH RIGHT-OF-WAY LINE N/O NORTH OF NO, OR # NUMBER NRC NON-REVENUE CONNECTOR NRCP NON-REINFORCED CONCRETE PIPE NS NEAR SIDE N/S NORTH OF SOUTH RIGHT-OF-WAY LINE NTS NOT TO SCALE</p> <p>OC ON CENTER(S) OR OVERCROSSING OCS OVERHEAD CONTACT SYSTEM OD OUTSIDE DIAMETER OFC ORANGEBURG FIBER CONDUIT OG ORIGINAL GROUND OH OVERHEAD OPP OPPOSITE ORL ORNAMENTAL LIGHTING OTM OTHER TRACK MATERIAL</p> <p>P PIPE PA POLICE ALARM OR PUBLIC ADDRESS PB PULL BOX PCC PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVATURE PCCP PRE-STRESSED CONCRETE CYLINDER PIPE PCL PRIMARY CONTROL LINE PCS PIECES PD PAPER DUCT PE POLYETHYLENE OR PLAIN END PED PEDESTRIAN PEM POLYETHYLENE MAIN</p>	<p>PF POINT OF FROG PGL PROFILE GRADE LINE PITO POINT OF INTERSECTION OF TURNOUT PIV POST INDICATOR VALVE PL OR R PLATE R PROPERTY LINE PLD PLASTIC DUCT PLT PLASTIC TILE PM PARKING METER PO PUSH-ON JOINT POC POINT OF CONNECTION POL POLICE PP POWER POLE OR PAPER PIPE PPD PAPER PIPE DUCT PROD PRODUCT PROP PROPERTY OR PROPOSED PS POINT OF SWITCH PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PSP PAINT SHOP PT(S) POINT(S) PUE PUBLIC UTILITY EASEMENT PV PLUG VALVE PVC POLYVINYL CHLORIDE PVCC POLYVINYL CHLORIDE CONDUIT PVCP POLYVINYL CHLORIDE PIPE PVMT PAVEMENT PWR POWER</p> <p>QTY QUANTITY QUAD QUADRANT</p> <p>R RADIUS RBM RAILBOUND MANGANESE RCB REINFORCED CONCRETE BOX (CULVERT) RCP REINFORCED CONCRETE PIPE RD ROAD RECT RECTANGLE OR RECTIFIER REF REFERENCE REINF REINFORCE, REINFORCED, OR REINFORCEMENT REOD REQUIRED OR REQUIRE RET RETAINING RET W RETAINING WALL REV REVISE, REVISED, OR REVISION RGS RIGID GALVANIZED STEEL RH RIGHT HAND ROW RIGHT OF WAY RR RAILROAD RT RIGHT RTP RAIL TRANSIT PROJECT RY RAILWAY R/W RIGHT-OF-WAY</p> <p>S SOUTH, SLOPE, OR SIGN SA SERVICE AISLE SB SOUTHBOUND OR SPLICE BOX SCC STEEL CYLINDER CONCRETE (PIPE) SCL SECONDARY CONTROL LINE SCWD SINGLE CREOSOTED WOOD DUCT SD STORM DRAIN SDMH STORM DRAIN MANHOLE SEC SECONDS SECT SECTION SFP SITE FINISH PLAN SG SUB GRADE SHT SHEET</p>
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CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

							DESIGNED BY I. SALVATIERRA		 Metro PROJECT MANAGER _____	LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY		WESTSIDE SUBWAY EXTENSION FINAL EIS/EIR APPENDIX A STANDARD ABBREVIATIONS & SYMBOLS SHEET 2		CONTRACT NO	
							DRAWN BY I. SALVATIERRA					DRAWING NO G - 003		REV B	
							CHECKED BY W. GUO					SCALE			
							IN CHARGE R. CHOY					SHEET NO			
							DATE AUGUST 2011								
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION								

STANDARD ABBREVIATIONS

SIG	SIGNAL	TSPB	TRAFFIC SIGNAL PULLBOX
SIM	SIMILAR	TV	TELEVISION
SIP	SUPPORT IN PLACE	TVCC	TRANSPORTED VITRIFIED CLAY CONDUIT
SL	STREET LIGHT	TVM	TICKET VENDING MACHINE
SLC	STREET LIGHT CONDUIT	T/W	TOP OF WALL
SLPB	STREET LIGHT PULL BOX	TYP	TYPICAL
SMH	SEWER MANHOLE		
S/N	SOUTH OF NORTH RIGHT-OF-WAY LINE	UC	UNDERCROSSING OR UNDER CONSTRUCTION
SP	SPACE, SPACING, OR SITE PLAN	UD	UNDERDRAIN
SPEC	SPECIFICATION(S) (REF)	UG	UNDERGROUND
SPR	SPRINKLER	UNK	UNKNOWN
SO	SQUARE	UP	UNDERPASS OR COMBINATION POWER/TELEPHONE POLE
S/S	SOUTH OF SOUTH RIGHT-OF-WAY LINE	UPE	UNDER PLATFORM EXHAUST
SS	SANITARY SEWER OR STOP SIGN	UNO	UNLESS NOTED OTHERWISE
SSD	SANDSTONE CEMENT DUCT		
SSMH	SANITARY SEWER MANHOLE	V	VALVE, RATE OF SPEED, OR DESIGN SPEED
ST	STREET	VAC	VACUUM
STA	STATION	VAP	VERTICAL ANGLE POINT
STD	STANDARD OR SEWER TILED DUCT	VAR	VARIES OR VARIABLE
STL	STEEL	VCC	VITRIFIED CLAY CONDUIT
STM	STEAM	VCD	VITRIFIED CLAY DUCT
STOR	STORAGE	VCP	VITRIFIED CLAY PIPE
STP	STEEL PIPE	VCP(ES)	VITRIFIED CLAY PIPE (EXTRA STRENGTH)
STR	STRAIGHT	VCT	VITRIFIED CLAY TILE
STRUCT	STRUCTURE	VERT	VERTICAL
STY	STYRENE	VL	VAULT
SUB	SUBMITTED		
SUPV	SUPERVISE OR SUPERVISOR	W	WEST OR WATER
SURF	SURFACE	W/	WITH
SW	SWITCH	WB	WESTBOUND
SWK	SIDEWALK	WD	WATER DETECTOR
SYM	SYMMETRICAL	W/E	WEST OF EAST RIGHT-OF-WAY LINE
		WG	WHITE GAS
		WHH	WATER HANDHOLE
TAN	TANGENT	WHSE	WAREHOUSE
T & B	TOP AND BOTTOM	WI	WROUGHT IRON
TC	TILE CONDUIT, TOP OF CURB, TRACK CENTER, OR TRAIN CONTROL	WID	WIDTH
TCC	TRAIN CONTROL/COMMUNICATIONS	WIP	WROUGHT IRON PIPE
TCCB	TRAIN CONTROL/COMMUNICATIONS BUILDING	WL	WATER LEVEL
TCCR	TRAIN CONTROL/COMMUNICATIONS ROOM	WLN	WATER LINE
TD	TILE DUCT OR TILE DRAIN	WM	WATER METER
TEL, T	TELEPHONE	WMH	WATER MANHOLE
TELE	TELESCOPING	W/O	WITHOUT
TEMP	TEMPERATURE OR TEMPORARY	WP	WORKING POINT OR WORK POINT
TERM	TERMINAL	WSP	WELDED STEEL PIPE
TF	TOP OF FACE	WSP(L)	WELDED STEEL PIPE (CEMENT LINED)
TG	TOP OF GRADE, TOP OF GRATE, OR TELEGRAPH	WTR	WATER
THEO	THEORETICAL	WTW	WALL TO WALL
THK	THICK OR THICKNESS	WV	WATER VALVE
TL	TRAFFIC LIGHT OR TOE LENGTH	WW	WASTEWATER
TMH	TELEPHONE MANHOLE	W/W	WEST TO WEST RIGHT-OF-WAY LINE
TO	TURNOUT		
TOC	TOP OF CURB	X-DRAIN	CROSS DRAIN
TOP	TOP OF PIPE	X-ING	CROSSING
TOS	TOP OF SLOPE	X-MITER	TRANSMITTER
TP	POLICE TELEPHONE OR TRACTION POWER	X-OVER	CROSS OVER
TPS	TRACTION POWER SUBSTATION	X-SECT	CROSS SECTION
TPSS	TRACTION POWER SUPPLY SYSTEM		
T/LR	TOP OF LOW RAIL		
T/R	TOP OF RAIL		
TRD	TRANSIT DUCT		
TRK	TRACK		
TRPB	TRANSIT SHELTER PULLBOX		
TS	TRAFFIC SIGNAL		
TSC	TRAFFIC SIGNAL CONDUIT		
TSCB	TRAFFIC SIGNAL CONTROL BOX		

STANDARD SYMBOLS

AERIAL EASEMENT		CONCRETE CHANNEL	
ASPHALT CONCRETE PAVEMENT		CONSTRUCTION EASEMENT (TEMPORARY)	
AUTOMATIC GATE INTO PARKING AREA		CONTINUOUS WELDED RAIL	
BALLAST		CONTOUR LINES	
BARRICADE POSTS, BOLLARDS		CONTROL POINT OR STREET INTERSECTION POINT	
BASE COURSE		COORDINATE GRID CROSSHAIR	
BEGIN OR END PLATFORM		CURB	
BENCH MARK		CURB AND GUTTER	
BILLBOARD		CURVE NUMBER	
BLOCK WALL		CURVE POINT	
BORING & NUMBER		DEPRESSION	
BOX		DOUBLE CROSSOVER	
BREAK LINE		DRAINAGE DITCH OR SWALE	
BRIDGE		DRAINAGE INLET	
BUILDING		DRIVEWAY	
BUMPING POST		EDGE OF PAVEMENT	
BUMPING POST NUMBER		EARTH	
CANOPY		ELASTOMER	
CATCH BASIN		ELEVATION (EXISTING)	
CENTERLINE		EMBANKMENT OR SLOPE	
CLEANOUT		EXISTING GROUND LINE	
COLUMN, BENT		FENCE-CHAIN LINK OR OTHER	
CONCRETE		FIRE HYDRANT	
CONCRETE BARRIER		FLAGPOLE	

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

0 1/3/94 BASE LINE ISSUE

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	I. SALVATIERRA
DRAWN BY	I. SALVATIERRA
CHECKED BY	W. GUO
IN CHARGE	R. CHOY
DATE	AUGUST 2011



Metro

PROJECT MANAGER _____

LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
STANDARD
ABBREVIATIONS & SYMBOLS
SHEET 3

CONTRACT NO	
DRAWING NO	G - 004
SCALE	
SHEET NO	

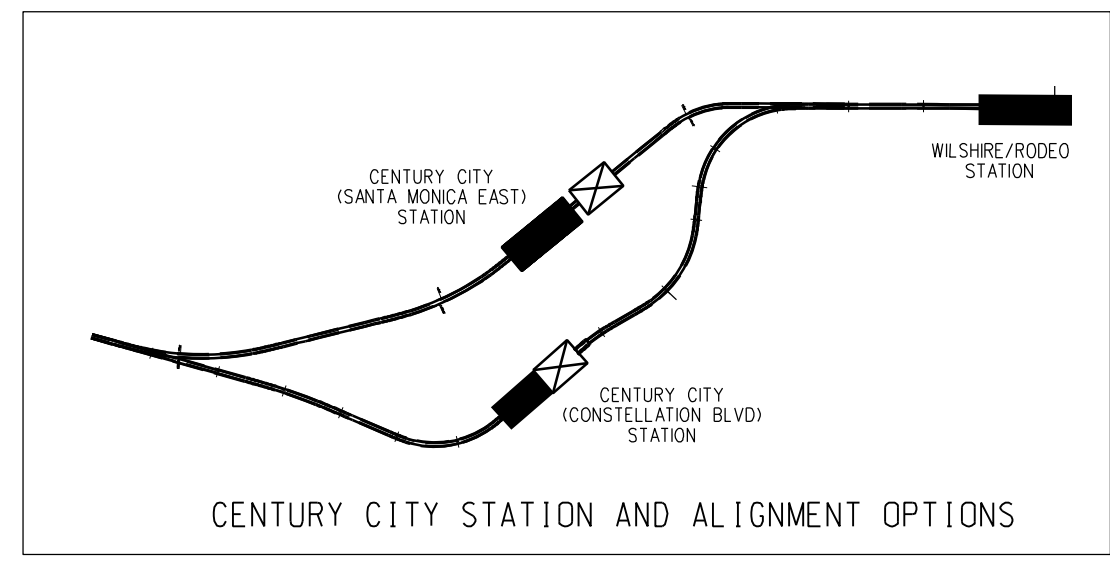
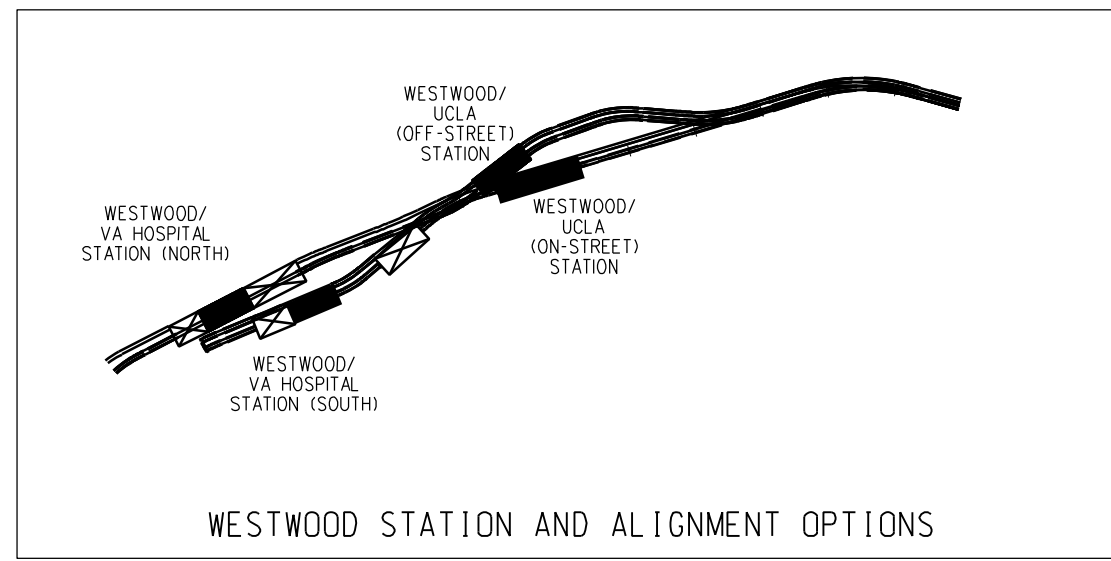
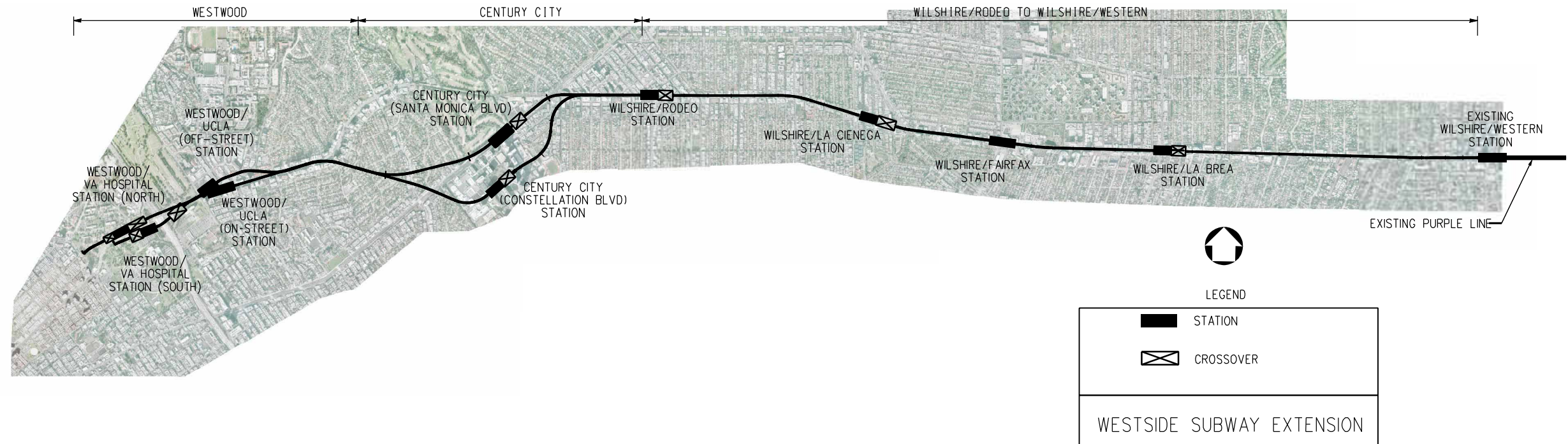
User Name: \$USER
 \$DATE
 \$TIME
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STANDARD SYMBOLS



FOUNDATION OR RUIN		PERFORATED SUBDRAIN		STEEL	
GATE		PICTURE CENTER		SUBBALLAST	
GUARD RAIL		PI		SUBGRADE EARTH	
GRAVEL		PVI		TANK	
GRAVEL OR DIRT ROAD		PITO OR PI NUMBER		TIMBER	
GROUND ROD		PLANTER		TRACK CENTER LINE	
GROUND ROD IN WELL		POINT OF INTERSECTION OF TURNOUT (PITO)		TRACTION POWER MANHOLE	
GUY WIRE		POINT OF SWITCH (OR SWITCH MACHINE)		TRACTION POWER SUBSTATION	
HANDICAPPED PARKING		POINT OF SWITCH NUMBER		TRAFFIC LIGHT, TRAFFIC SIGNAL	
HEADSPAN		POOL	N/A	TRANSIT SIGNAL	
HIGH VOLTAGE VAULT		POST WITH LIGHT & TRAFFIC LIGHT		TREE	
HOSE BIB		RAILROAD SWITCH		TURNOUT WITH NUMBER INDICATED	
LANE LINES		RAILROAD TRACK		UNDERDRAIN	
LRT TCC SYSTEM HANDHOLE		RIDGE		UTILITY BOX	
LRT TCC SYSTEM MANHOLE		RIGHT-OF-WAY		UTILITY POLE	
MANHOLE		SAND/CONC SURFACE		VALVE, VENT	
MATCH LINE		SEWER, WATER OR GAS ENCASEMENT		VALVE COVER	
METER BOX		SIDEWALK, CONCRETE		VINEYARD	
OIL WELL		SINGLE CROSSOVER		WALL OR RETAINING WALL	
ORCHARD		SHRUBBERY		WELL	
OVERHEAD SIGN		SPA		WOOD	
OVERHEAD WIRES AND CABLES		SPOT ELEVATION		WORK POINT	
PALM TREE		STANDPIPE			
PARKING SPACES		STATION EQUATION			

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

			DESIGNED BY I. SALVATIERRA DRAWN BY I. SALVATIERRA CHECKED BY W. GUO IN CHARGE R. CHOY DATE AUGUST 2011	 Metro LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY	WESTSIDE SUBWAY EXTENSION FINAL EIS/EIR APPENDIX A STANDARD ABBREVIATIONS & SYMBOLS SHEET 4	CONTRACT NO DRAWING NO G - 005 SCALE SHEET NO REV B					
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION				



CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

							DESIGNED BY C. GRIFFITH	 Metro LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY 	WESTSIDE SUBWAY EXTENSION FINAL EIS/EIR APPENDIX A		CONTRACT NO
							DRAWN BY C. GRIFFITH		DRAWING NO G-006	REV B	
							CHECKED BY S. ALDRETE		SCALE NO SCALE	SHEET NO	
							IN CHARGE R. CHOY		ALIGNMENT MAP		
							DATE AUGUST 2011		PROJECT MANAGER _____		
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION				

ALIGNMENT AND ROUTE DESCRIPTIONS

SEGMENT	SHEET NO.	STATIONING	STATIONING EQUATIONS	SEGMENT LENGTH (FT)	DESCRIPTION
WILSHIRE/WESTERN TO WILSHIRE/RODEO	C-101 TO C-111	STA 0+00 TO STA 284+00	N/A	28,400	FROM THE METRO PURPLE LINE WILSHIRE/WESTERN STATION ALONG WILSHIRE BLVD TO WILSHIRE/RODEO STATION
CENTURY CITY	C-112 TO C-117	STA 284+00 TO STA 400+00	N/A	11,600	FROM THE WEST END OF THE WILSHIRE/RODEO STATION THROUGH CENTURY CITY - CONSTALLATION BLVD STATION
	C-212 TO C-215	STA 275+00 TO STA 377+22.57	STA 376+76.19 - SHEET C-215 = STA 389+00 - SHEET C-117	10,222.57	FROM THE WEST END OF WILSHIRE/RODEO STATION THROUGH CENTURY CITY - SANTA MONICA BLVD STATION
WESTWOOD	C-118 TO C-120	STA 400+00 TO STA 473+88.75	N/A	7,388.75	FROM THE WESTWOOD - UCLA ON-STREET STATION TO VA HOSPITAL STATION SOUTH OF WILSHIRE BLVD.
	C-316 TO C-319	STA 380+00 TO STA 466+84.19	STA 380+00 - SHEET 316 = STA 388+19.86 - SHEET 117	8,684.19	FROM WESTWOOD/UCLA OFF-STREET STATION TO VA HOSPITAL STATION SOUTH OF WILSHIRE BLVD
	C-418 TO C-420	STA 416+79.01 TO STA 475+85.18	STA 416+79.01 - SHEET C-418 = STA 425+00 - SHEET C-118	5,906.17	FROM WESTWOOD/UCLA ON-STREET STATION TO VA HOSPITAL STATION NORTH OF WILSHIRE BLVD
	C-516 TO C-520	STA 380+00 TO STA 477+08.28	STA 380+00 - SHEET C-516 = STA 388+19.86 - SHEET C-117	9,708.28	FROM WESTWOOD/UCLA OFF-STREET STATION TO VA HOSPITAL STATION NORTH OF WILSHIRE BLVD

NOTE:

1. TOTAL OF EIGHT ALIGNMENT COMBINATIONS POSSIBLE (REFER TO G-006 AND G-008)
2. ALIGNMENT LENGTHS TO THE NEAREST FOOT AS SHOWN ON DRAWING G-006

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

					LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY					WESTSIDE SUBWAY EXTENSION FINAL EIS/EIR APPENDIX A					CONTRACT NO. _____				
					PROJECT MANAGER _____					ALIGNMENT & ROUTE DESCRIPTIONS SHEET 1					DRAWING NO. G-007				
															SCALE _____				
															SHEET NO. _____				
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION												
							DESIGNED BY: C. GRIFFITH DRAWN BY: C. GRIFFITH CHECKED BY: S. ALDRETE IN CHARGE: R. CHOY DATE: AUGUST 2011												

User Name: \$USER \$DATE \$TIME \$FILE\$

ALIGNMENT CONBINATION DECRPTIONS


ALIGNMENT COVERAGE	SHEET NO.	STATIONING	STATIONING EQUATIONS	ROUTE LENGTH (FT)	DESCRIPTION
WILSHIRE/WESTERN TO WESTWOOD/VA HOSPITAL	C-101 TO C-120	STA 0+00 TO STA 473+88.75	STA 235+01.91 = STA 235+00 SHEET C-110	47,390.66	FROM THE EXISTING METRO PURPLE LINE WILSHIRE/WESTERN STATION ALONG WILSHIRE BLVD TO WILSHIRE/RODEO STATION HENCE CENTURY CITY - (CONSTELLATION BLVD STATION), WESTWOOD/UCLA (ON-STREET) STATION, WESTWOOD VA HOSPITAL STATION (SOUTH) OF WILSHIRE BLVD
WILSHIRE/WESTERN TO WESTWOOD/VA HOSPITAL	C-101 TO C-111, C-212 TO C-215, C-117 TO C-120	STA 0+00 TO STA 473+88.75	STA 235+01.91 = STA 235+00 SHEET C-110 STA 377+22.57 - SHEET C-215 = STA 389+00 - SHEET C-117	46,213.23	FROM THE EXISTING METRO PURPLE LINE WILSHIRE/WESTERN STATION ALONG WILSHIRE BLVD TO WILSHIRE/RODEO STATION HENCE CENTURY CITY - (SANTA MONICA BLVD STATION), WESTWOOD/UCLA (ON-STREET) STATION, WESTWOOD VA HOSPITAL STATION (SOUTH) OF WILSHIRE BLVD
WILSHIRE/WESTERN TO WESTWOOD/VA HOSPITAL	C-101 TO C-117, C-316 TO C-319	STA 0+00 TO STA 466+84.19	STA 235+01.91 = STA 235+00 SHEET C-110 STA 380+00 - SHEET C-316 = STA 388+19.86 - SHEET C-117	47,505.96	FROM THE EXISTING METRO PURPLE LINE WILSHIRE/WESTERN STATION ALONG WILSHIRE BLVD, WILSHIRE/RODEO STATION HENCE CENTURY CITY - (CONSTELLATION BLVD STATION), WESTWOOD/UCLA (OFF-STREET) STATION, WESTWOOD VA HOSPITAL STATION (SOUTH) OF WILSHIRE BLVD
WILSHIRE/WESTERN TO WESTWOOD/VA HOSPITAL	C-101 TO C-118, C-418 TO C-420	STA 0+00 TO STA 475+85.18	STA 235+01.91 = STA 235+00 SHEET C-110 STA 416+79.01 - SHEET C-418 = STA 425+00 - SHEET C-118	48,408.08	FROM THE EXISTING METRO PURPLE LINE WILSHIRE/WESTERN STATION ALONG WILSHIRE BLVD, WILSHIRE/RODEO STATION HENCE CENTURY CITY - (CONSTELLATION BLVD STATION), WESTWOOD/UCLA (ON-STREET) STATION, WESTWOOD VA HOSPITAL STATION (NORTH) OF WILSHIRE BLVD
WILSHIRE/WESTERN TO WESTWOOD/VA HOSPITAL	C-101 TO C-117 AND C-516 TO C-520	STA 0+00 TO STA 477+08.28	STA 235+01.91 = STA 235+00 SHEET C-110 STA 380+00 - SHEET C-516 = STA 388+19.86 - SHEET C-117	48,530.05	FROM THE EXISTING METRO PURPLE LINE WILSHIRE/WESTERN STATION ALONG WILSHIRE BLVD, WILSHIRE/RODEO STATION HENCE CENTURY CITY - (CONSTELLATION BLVD STATION), WESTWOOD/UCLA (OFF-STREET) STATION, WESTWOOD VA HOSPITAL STATION (NORTH) OF WILSHIRE BLVD
WILSHIRE/WESTERN TO WESTWOOD/VA HOSPITAL	C-101 TO C-111, C-212 TO C-215, C-316 TO C-319	STA 0+00 TO STA 466+84.19	STA 235+01.91 = STA 235+00 SHEET C-110 STA 377+22.57 - SHEET C-215 = STA 380+80.14 - SHEET C-316	46,328.53	FROM THE EXISTING METRO PURPLE LINE WILSHIRE/WESTERN STATION ALONG WILSHIRE BLVD, WILSHIRE/RODEO STATION HENCE CENTURY CITY - (SANTA MONICA BLVD STATION), WESTWOOD/UCLA (OFF-STREET) STATION, WESTWOOD VA HOSPITAL STATION (SOUTH) OF WILSHIRE BLVD
WILSHIRE/WESTERN TO WESTWOOD/VA HOSPITAL	C-101 TO C-111, C-212 TO C-215, C-117 TO C-118, C-418 TO C-420	STA 0+00 TO STA 475+85.18	STA 235+01.91 = STA 235+00 SHEET C-110 STA 377+22.57 - SHEET C-215 = STA 389+00 - SHEET C-117 STA 416+79.01 - SHEET C-418 = STA 425+00 - SHEET C-118	47,230.65	FROM THE EXISTING METRO PURPLE LINE WILSHIRE/WESTERN STATION ALONG WILSHIRE BLVD, WILSHIRE/RODEO STATION HENCE CENTURY CITY - (SANTA MONICA BLVD STATION), WESTWOOD/UCLA (ON-STREET) STATION, WESTWOOD VA HOSPITAL STATION (NORTH) OF WILSHIRE BLVD
WILSHIRE/WESTERN TO WESTWOOD/VA HOSPITAL	C-101 TO C-111, C-212 TO C-215, C-516 TO C-520	STA 0+00 TO STA 477+08.28	STA 235+01.91 = STA 235+00 SHEET C-110 STA 377+22.57 - SHEET C-215 = STA 380+80.14 - SHEET C-516	47,352.62	FROM THE EXISTING METRO PURPLE LINE WILSHIRE/WESTERN STATION ALONG WILSHIRE BLVD, WILSHIRE/RODEO STATION HENCE CENTURY CITY - (SANTA MONICA BLVD STATION), WESTWOOD/UCLA (OFF-STREET) STATION, WESTWOOD VA HOSPITAL STATION (NORTH) OF WILSHIRE BLVD

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

DESIGNED BY	C. GRIFFITH						
DRAWN BY	C. GRIFFITH						
CHECKED BY	S. ALDRETE						
IN CHARGE	R. CHOY						
DATE	AUGUST 2011						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	C. GRIFFITH
DRAWN BY	C. GRIFFITH
CHECKED BY	S. ALDRETE
IN CHARGE	R. CHOY
DATE	AUGUST 2011

**LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY**

 PROJECT MANAGER _____

**WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A**

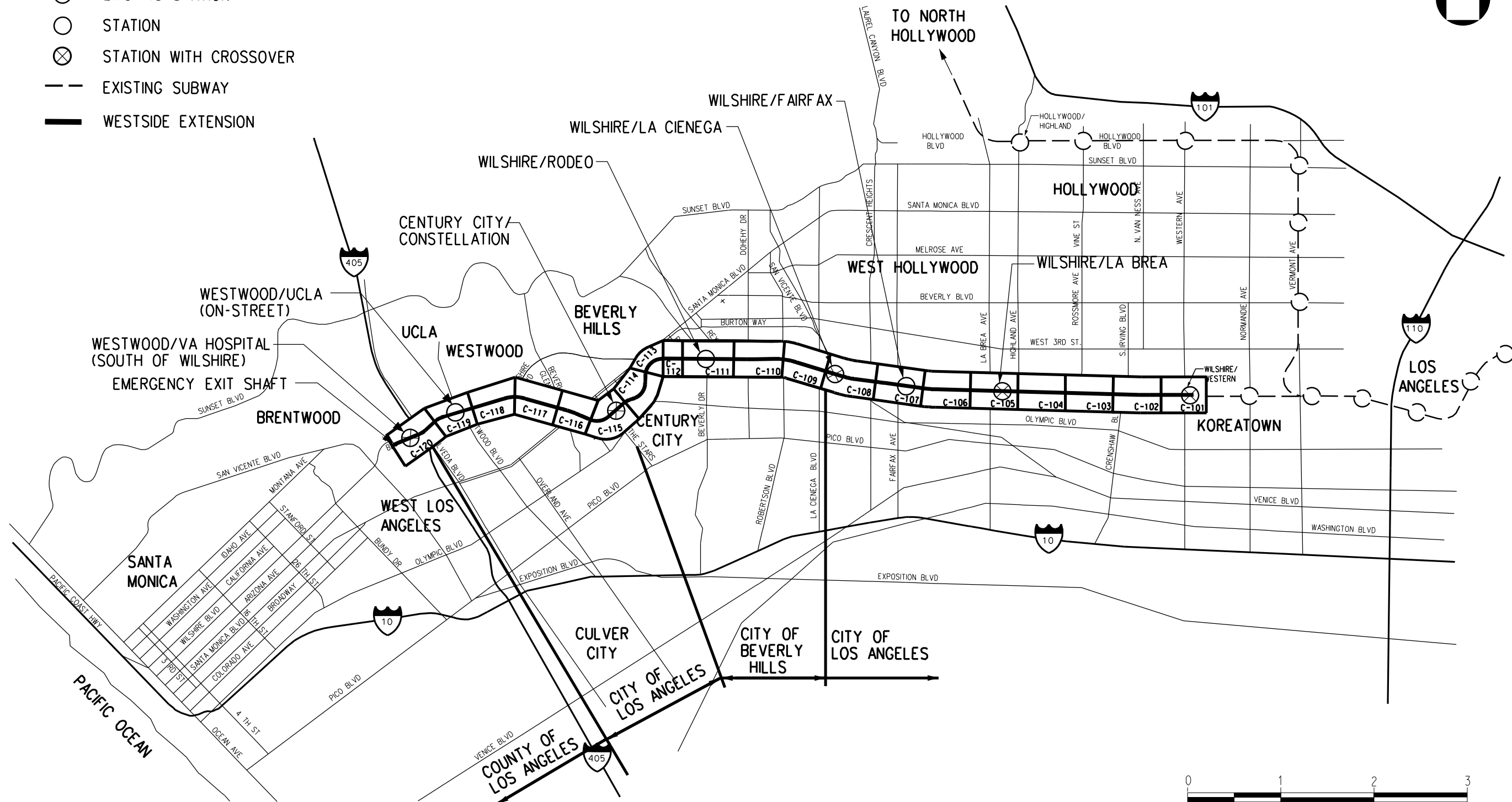
ALIGNMENT & ROUTE DESCRIPTIONS
SHEET 2

CONTRACT NO	
DRAWING NO	G-008
REV	B
SCALE	
SHEET NO	

User Name: \$USER Date: \$TIME File Name: \$FILES

LEGEND

- EXISTING STATION
- STATION
- ⊗ STATION WITH CROSSOVER
- - - EXISTING SUBWAY
- WESTSIDE EXTENSION



CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

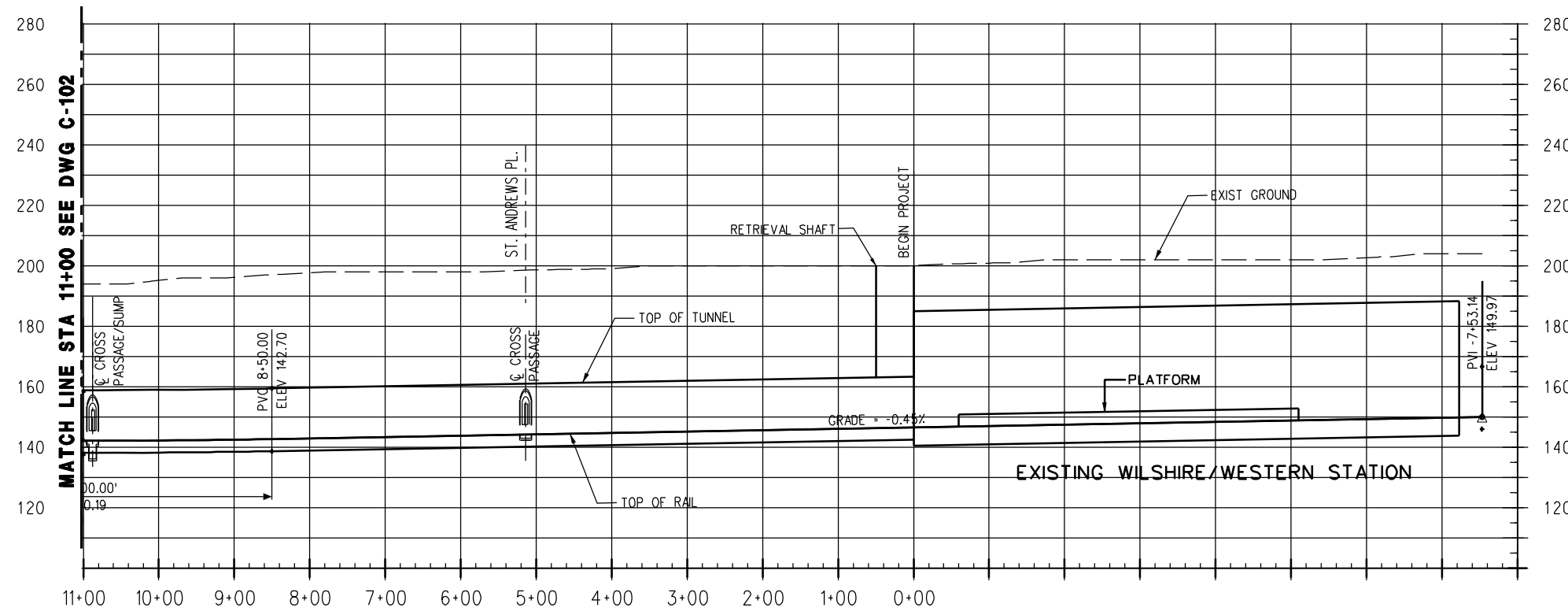
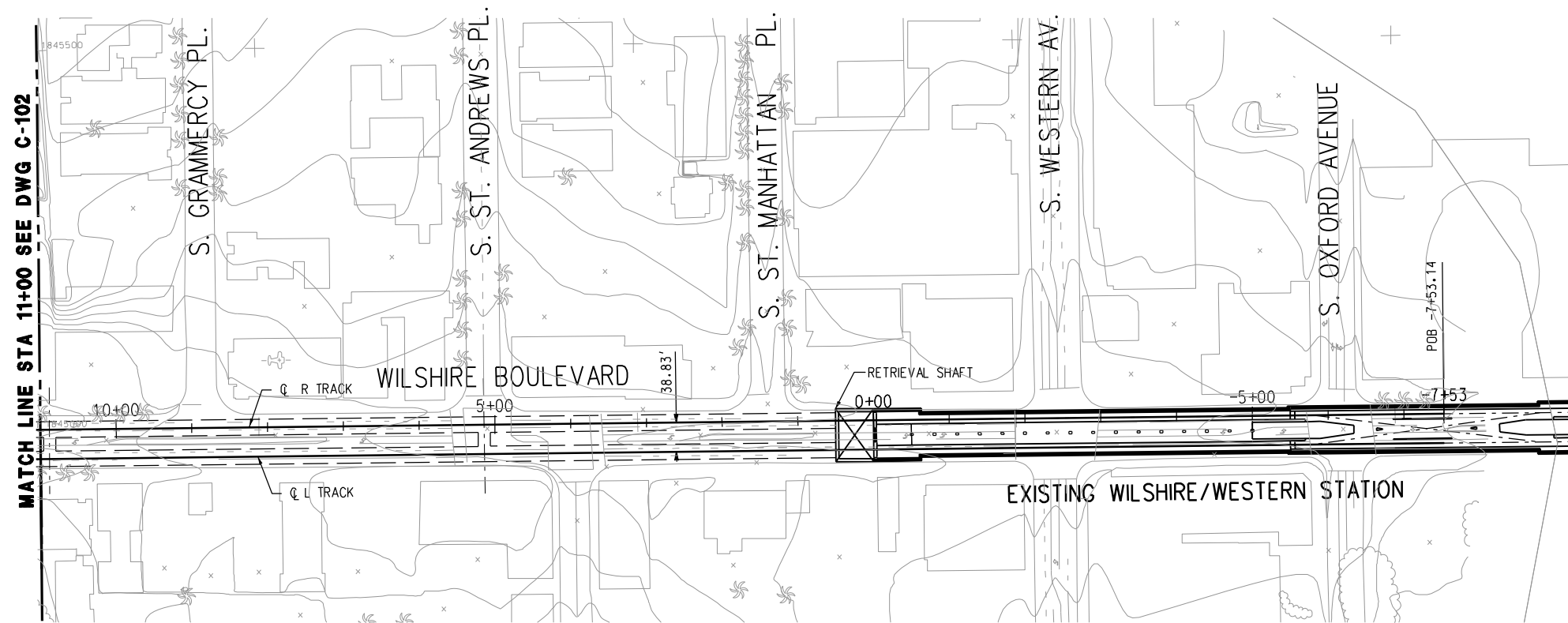
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
C. GRIFFITH
DRAWN BY
C. GRIFFITH
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011

M Metro
PB PROJECT MANAGER
 LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

WESTSIDE SUBWAY EXTENSION
 FINAL EIS/EIR APPENDIX A
 CENTURY CITY - CONSTELLATION TO
 WESTWOOD UCLA ON-STREET TO VA HOSPITAL
 SOUTH OF WILSHIRE BLVD ALIGN. OPTION
 KEYMAP

CONTRACT NO	
DRAWING NO	C-100
REV	B
SCALE	NO SCALE
SHEET NO	



CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
C. GRIFFITH
DRAWN BY
C. GRIFFITH
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011

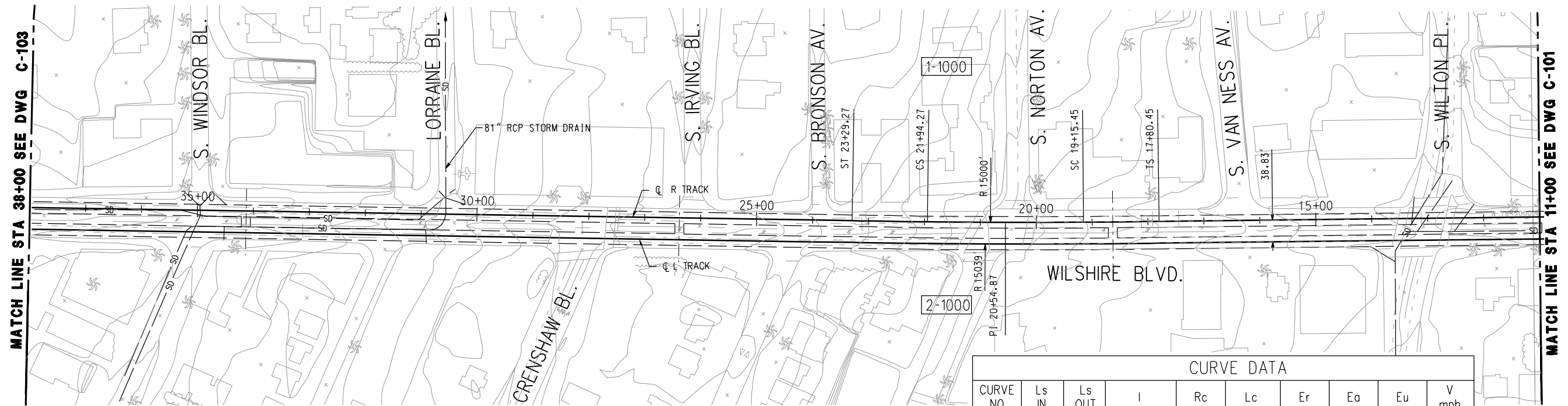
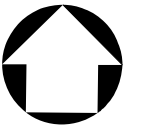


LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

PROJECT MANAGER _____

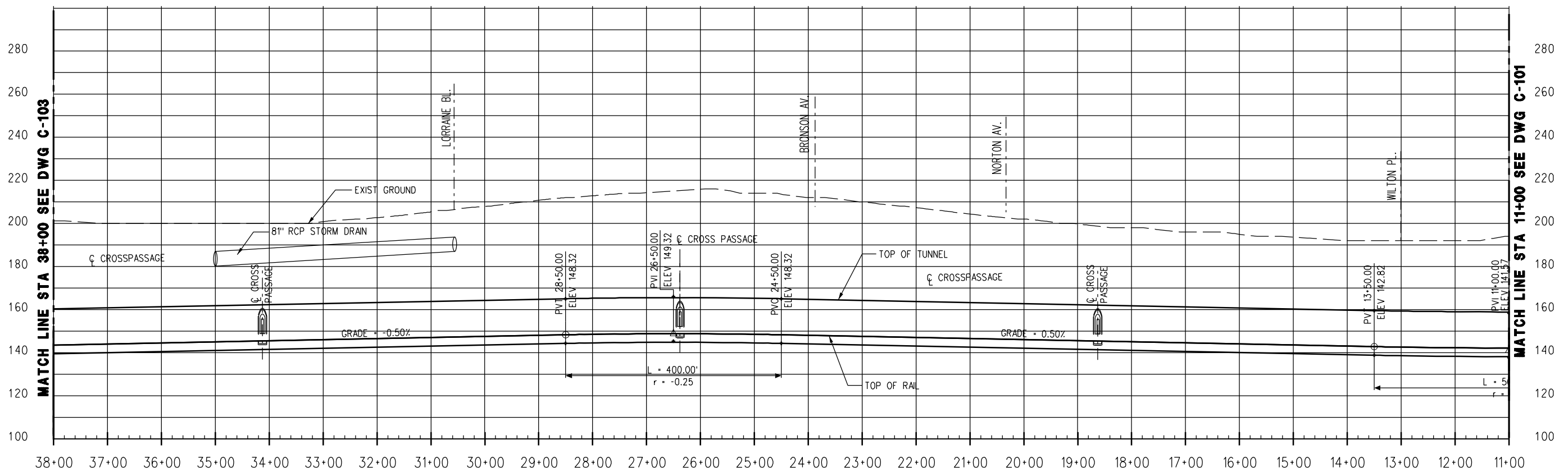
WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
WILSHIRE/WESTERN TO WILSHIRE/RODEO ON
WILSHIRE BLVD ALIGNMENT OPTION
PLAN & PROFILE
STATION 0+00 TO 11+00

CONTRACT NO	
DRAWING NO C-101	REV B
SCALE 1" = 100'	
SHEET NO	



PLAN

CURVE DATA									
CURVE NO	Ls IN	Ls OUT	I	Rc	Lc	Er	Ea	Eu	V mph
1-1000	135'	135'	1° 34' 50"	15000'	278.82'	1.5"	1.5"	0"	75
2-1000	135'	135'	1° 34' 50"	15039'	279.89'	1.5"	1.5"	0"	75



PROFILE

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

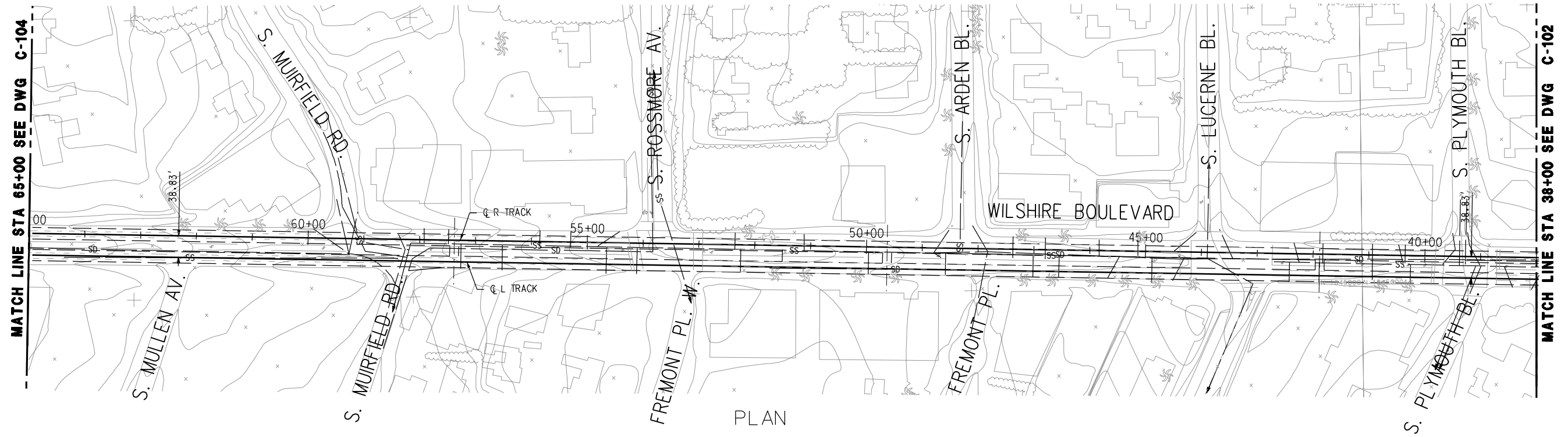
DESIGNED BY
C. GRIFFITH
DRAWN BY
C. GRIFFITH
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011



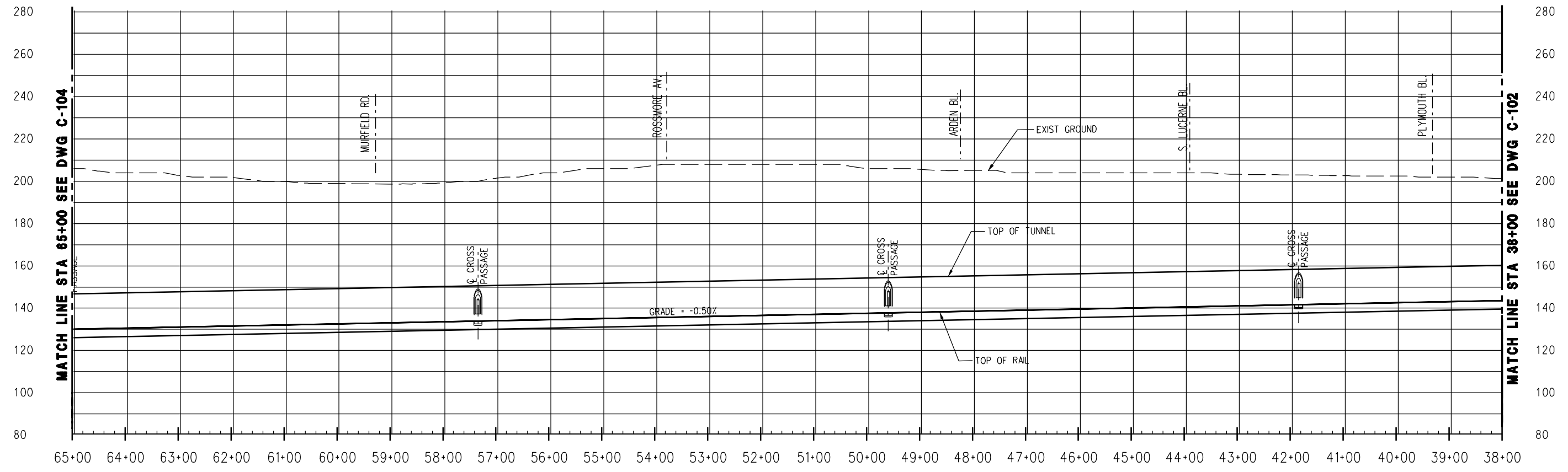
LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
WILSHIRE/WESTERN TO WILSHIRE/RODEO ON
WILSHIRE BLVD ALIGNMENT OPTION
PLAN & PROFILE
STATION 11+00 TO 38+00

CONTRACT NO	
DRAWING NO C-102	REV B
SCALE 1' = 100'	
SHEET NO	



PLAN



PROFILE

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

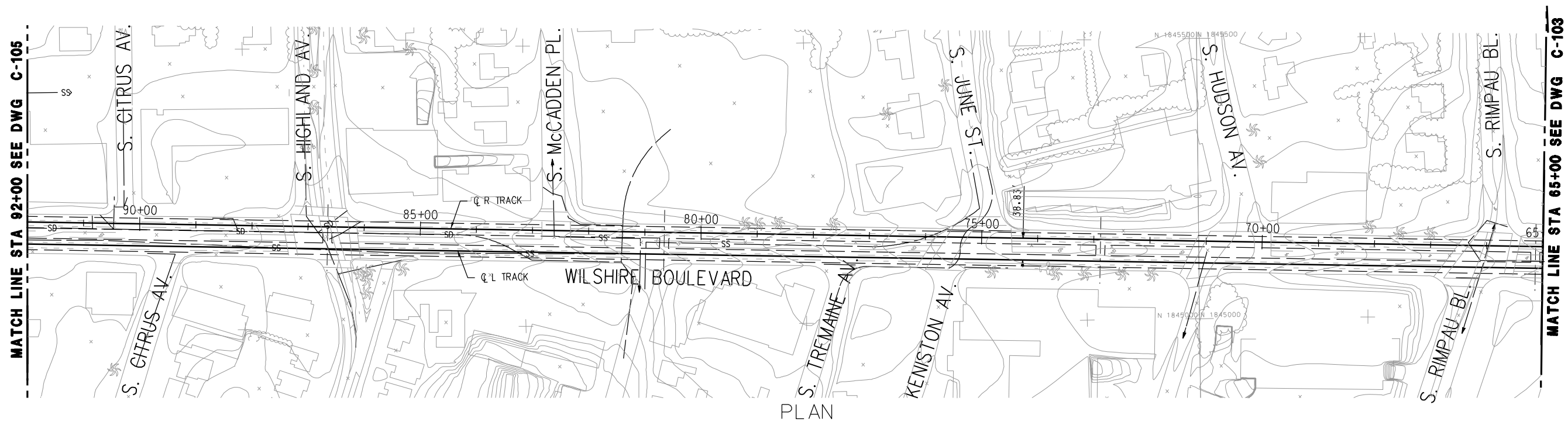
DESIGNED BY
C. GRIFFITH
DRAWN BY
C. GRIFFITH
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011



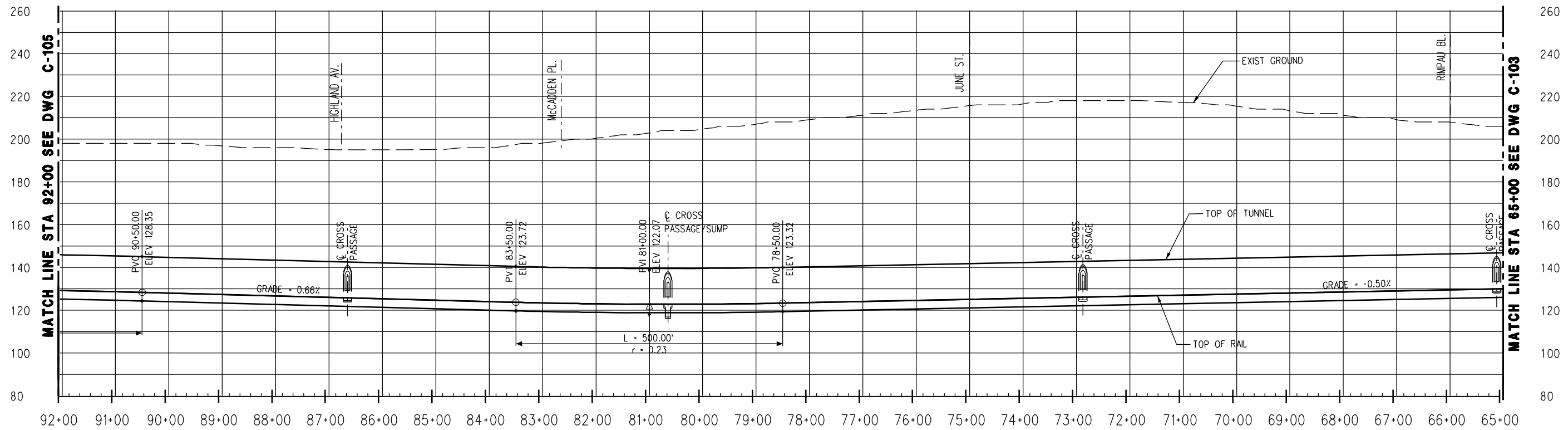
LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
WILSHIRE/WESTERN TO WILSHIRE/RODEO ON
WILSHIRE BLVD ALIGNMENT OPTION
PLAN & PROFILE
STATION 38+00 TO 65+00

CONTRACT NO	
DRAWING NO C-103	REV B
SCALE 1" = 100'	
SHEET NO	



PLAN



PROFILE

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
C. GRIFFITH
DRAWN BY
C. GRIFFITH
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011



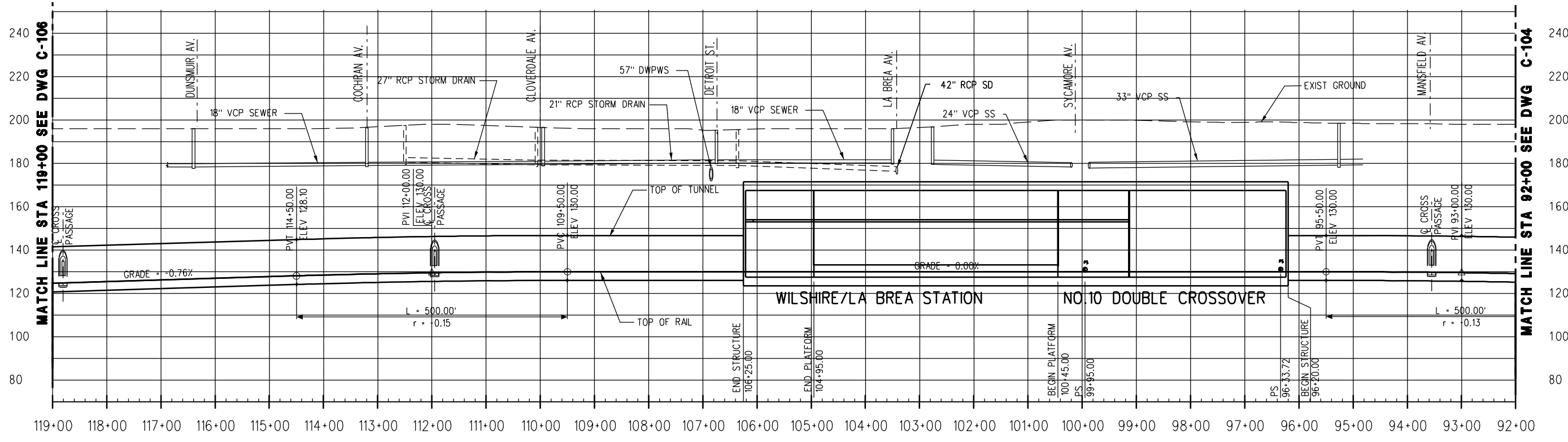
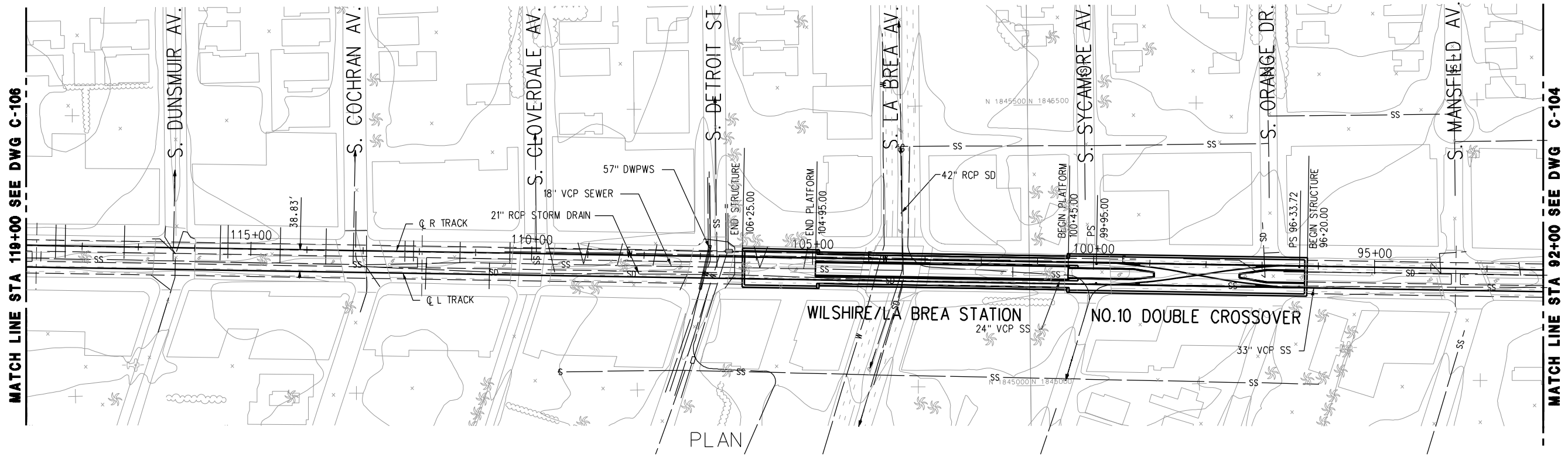
LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
WILSHIRE/WESTERN TO WILSHIRE/RODEO ON
WILSHIRE BLVD ALIGNMENT OPTION
PLAN & PROFILE
STATION 65+00 TO 92+00

CONTRACT NO	
DRAWING NO C-104	REV B
SCALE 1" = 100'	
SHEET NO	



User Name: \$USER \$DATE \$TIME \$FILE\$



PROFILE

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
C. GRIFFITH
DRAWN BY
C. GRIFFITH
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011

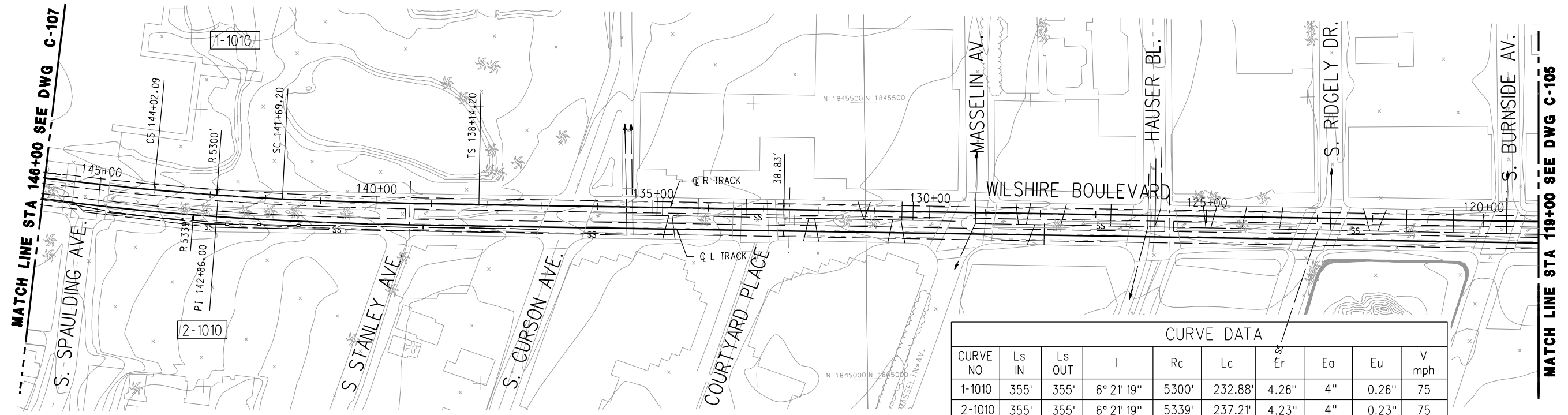


LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
WILSHIRE/WESTERN TO WILSHIRE/RODEO ON
WILSHIRE BLVD ALIGNMENT OPTION
PLAN & PROFILE
STATION 92+00 TO 119+00

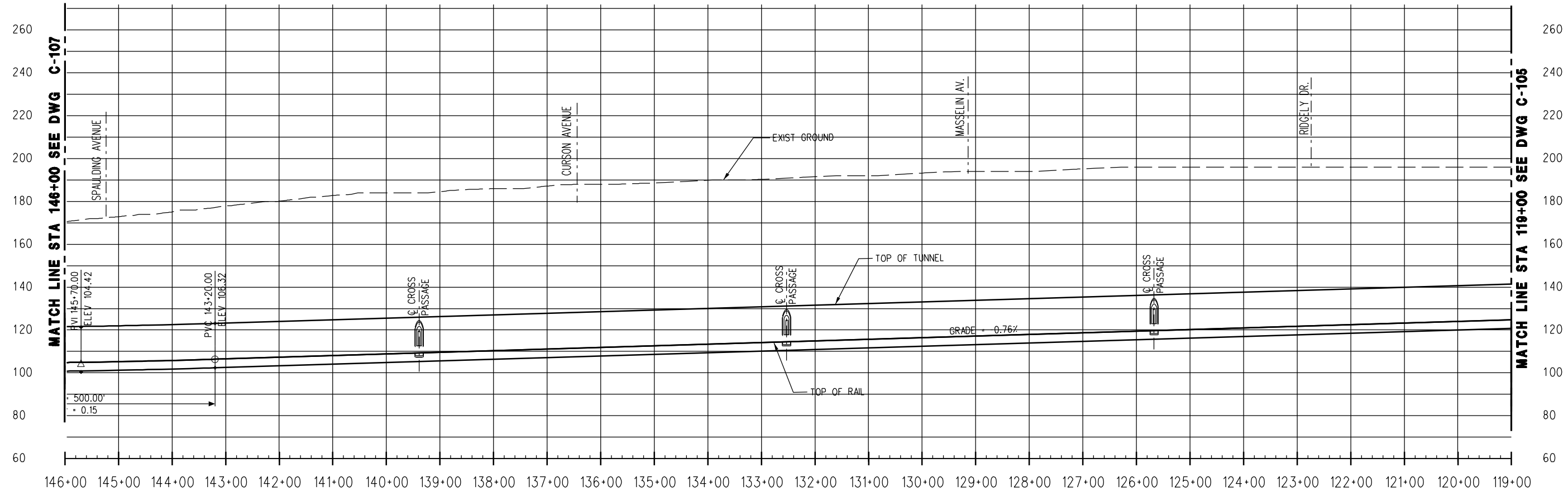
CONTRACT NO	
DRAWING NO C-105	REV B
SCALE 1" = 100'	
SHEET NO	

User Name: \$USER \$DATE \$TIME \$FILENAME -> \$FILES\$



CURVE DATA									
CURVE NO	Ls IN	Ls OUT	I	Rc	Lc	Er	Eo	Eu	V mph
1-1010	355'	355'	6° 21' 19"	5300'	232.88'	4.26"	4"	0.26"	75
2-1010	355'	355'	6° 21' 19"	5339'	237.21'	4.23"	4"	0.23"	75

PLAN



PROFILE

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

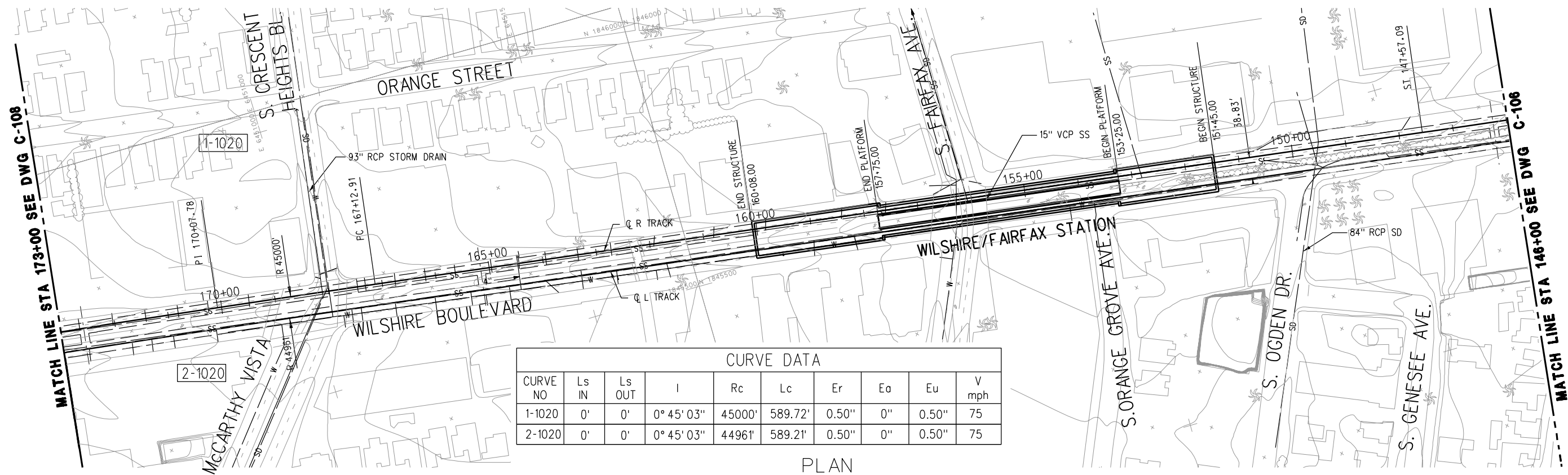
DESIGNED BY
C. GRIFFITH
DRAWN BY
C. GRIFFITH
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011



LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

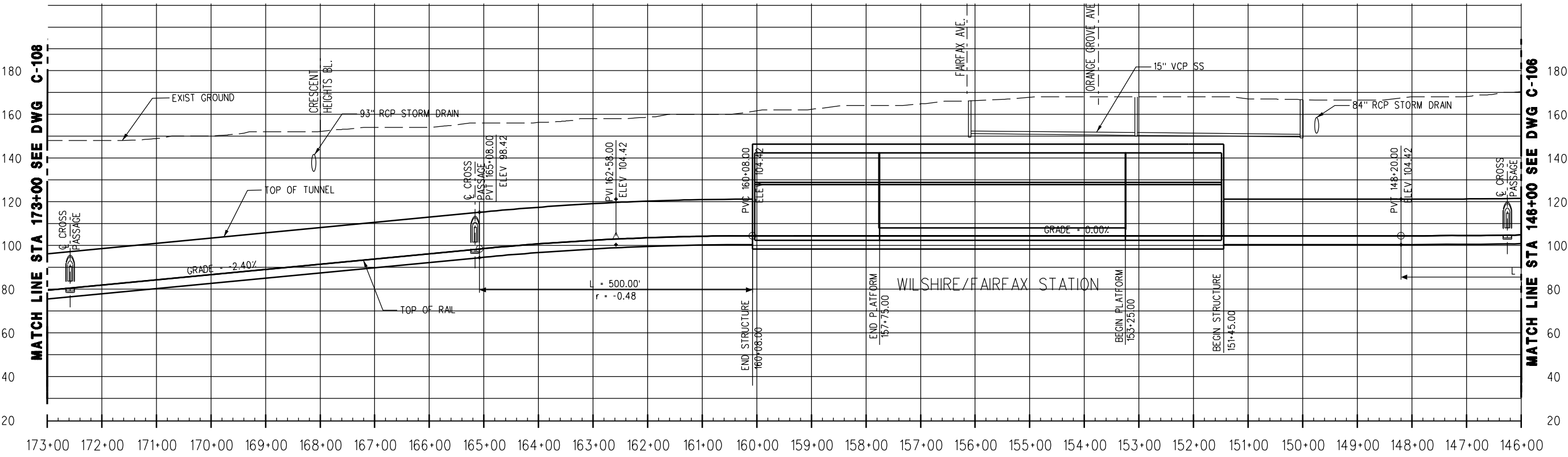
WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
WILSHIRE/WESTERN TO WILSHIRE/RODEO ON
WILSHIRE BLVD ALIGNMENT OPTION
PLAN & PROFILE
STATION 119+00 TO 146+00

CONTRACT NO	
DRAWING NO C-106	REV B
SCALE 1"=100'	
SHEET NO	



CURVE DATA									
CURVE NO	Ls IN	Ls OUT	I	Rc	Lc	Er	Ea	Eu	V mph
1-1020	0'	0'	0° 45' 03"	45000'	589.72'	0.50"	0"	0.50"	75
2-1020	0'	0'	0° 45' 03"	44961'	589.21'	0.50"	0"	0.50"	75

PLAN



PROFILE

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

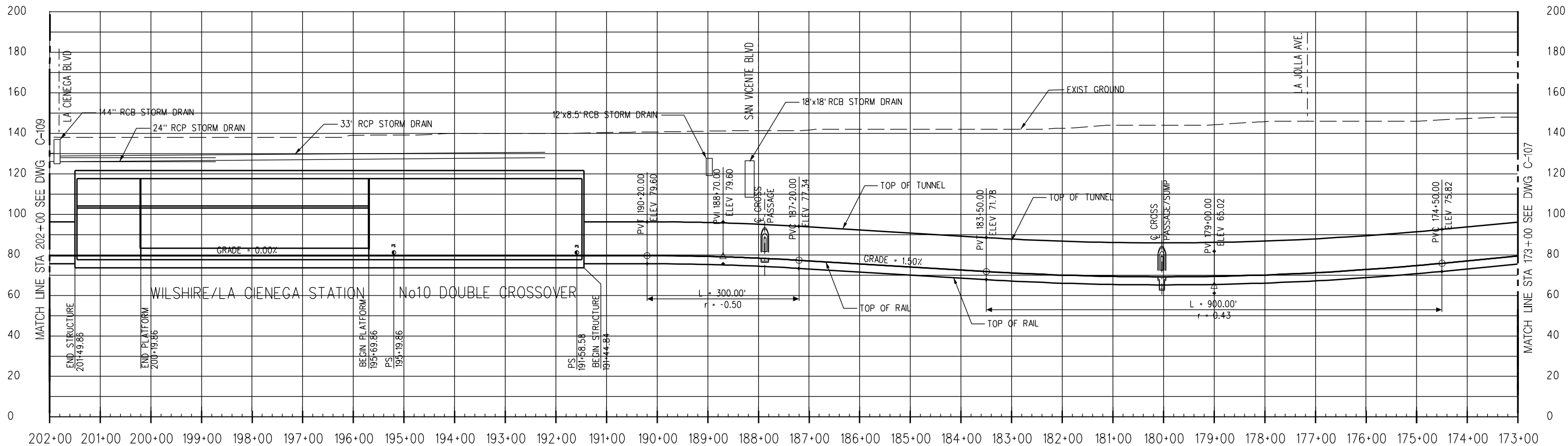
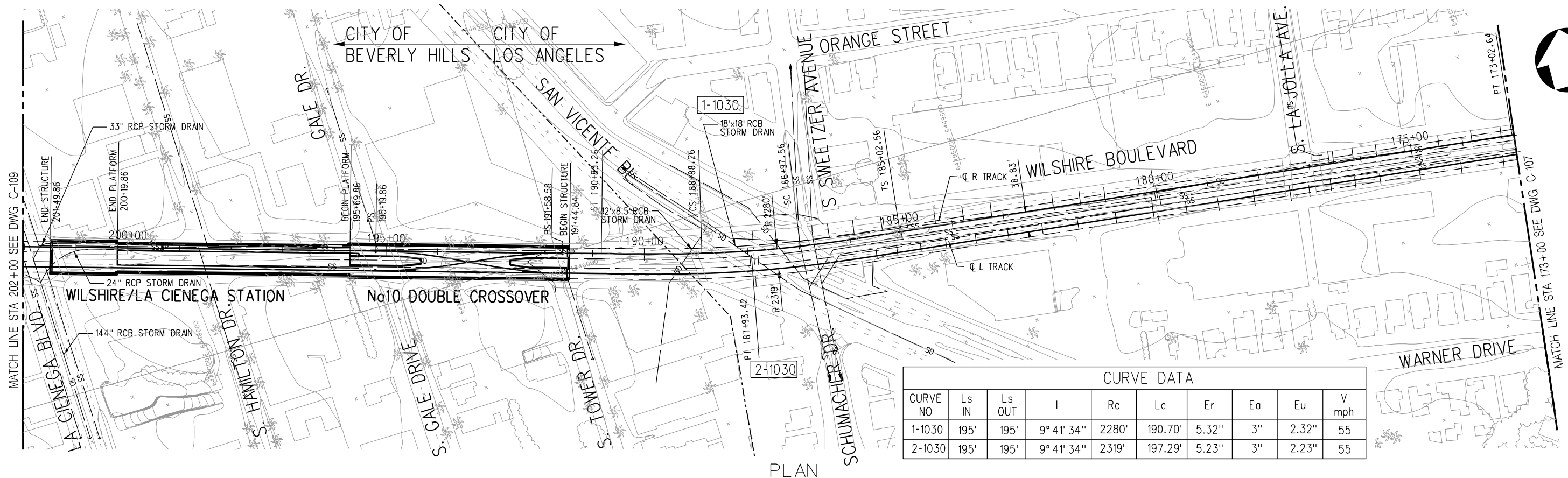
DESIGNED BY
S. ALDRETE
DRAWN BY
S. ALDRETE
CHECKED BY
W. GUO
IN CHARGE
R. CHOY
DATE
AUGUST 2011



LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY
Metro
PROJECT MANAGER _____

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
WILSHIRE/WESTERN TO WILSHIRE/RODEO ON
WILSHIRE BLVD ALIGNMENT OPTION
PLAN & PROFILE
STATION 146+00 TO 173+00

CONTRACT NO	
DRAWING NO C-107	REV B
SCALE 1' = 100'	
SHEET NO	



CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

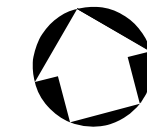
DESIGNED BY
S. ALDRETE
DRAWN BY
S. ALDRETE
CHECKED BY
W. GUO
IN CHARGE
R. CHOY
DATE
AUGUST 2011

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

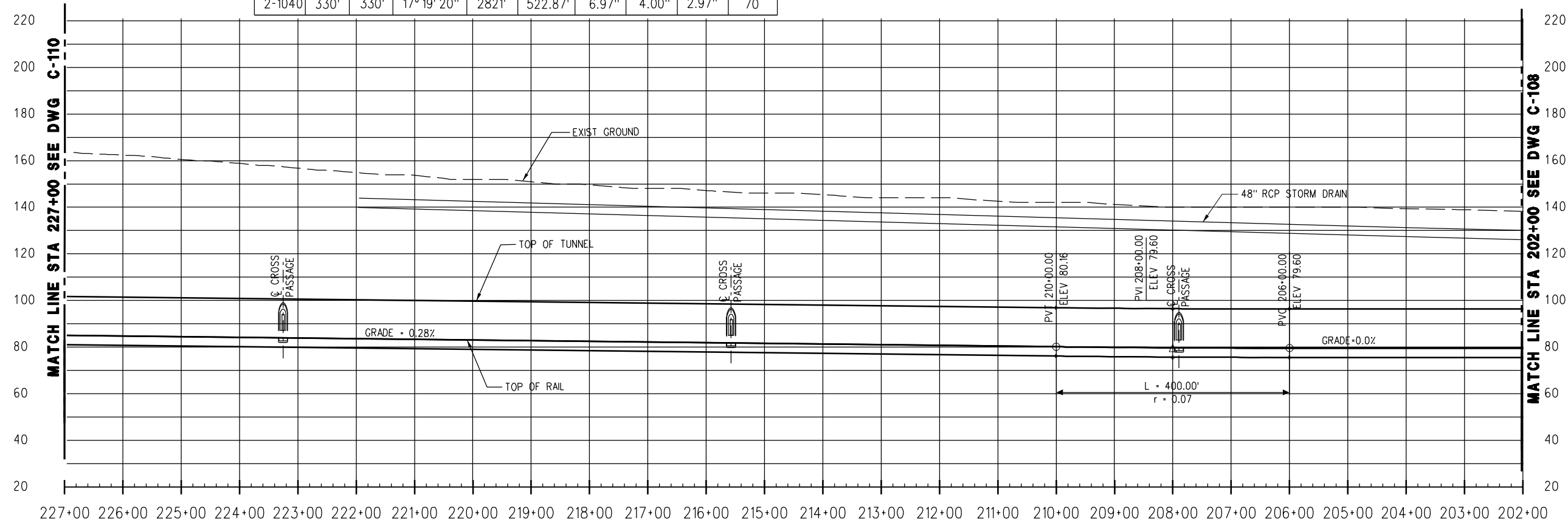
PROJECT MANAGER _____

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
WILSHIRE/WESTERN TO WILSHIRE/RODEO ON
WILSHIRE BLVD ALIGNMENT OPTION
PLAN & PROFILE
STATION 173+00 TO 202+00

CONTRACT NO	
DRAWING NO C-108	REV B
SCALE 1" = 100'	
SHEET NO	



CURVE DATA									
CURVE NO	Ls IN	Ls OUT	I	Rc	Lc	Er	Ea	Eu	V mph
1-1035	0'	0'	00° 18' 59"	70000'	386.46'	0.28"	0.00"	0.28"	70
2-1035	0'	0'	00° 18' 59"	70039'	386.67'	0.28"	0.00"	0.28"	70
1-1040	330'	330'	17° 19' 20"	2860'	534.66'	6.87"	4.00"	2.87"	70
2-1040	330'	330'	17° 19' 20"	2821'	522.87'	6.97"	4.00"	2.97"	70



CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

PROFILE

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
S. ALDRETE
DRAWN BY
S. ALDRETE
CHECKED BY
W. GUO
IN CHARGE
R. CHOY
DATE
AUGUST 2011



LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

Metro

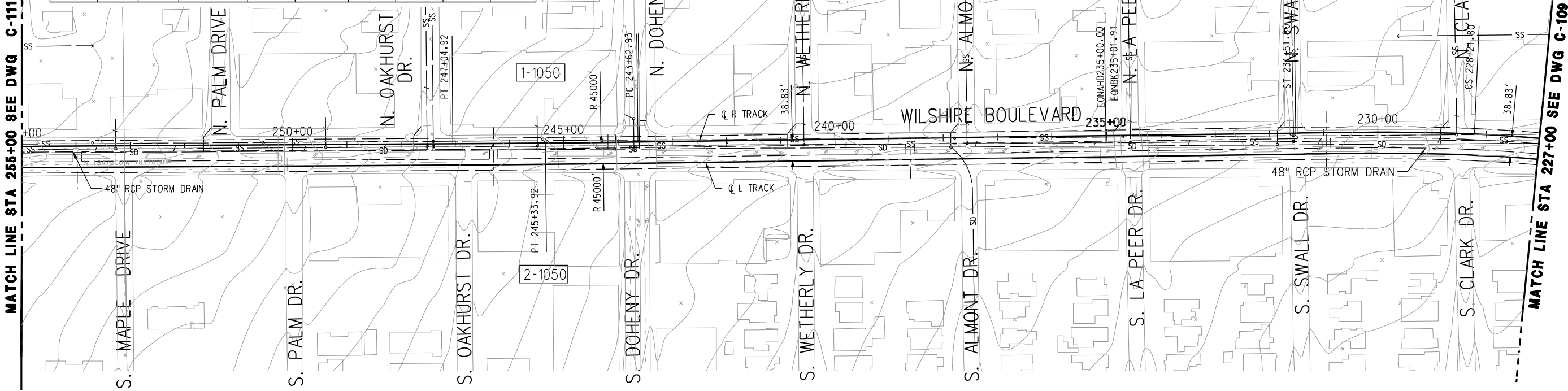
PROJECT MANAGER _____

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
WILSHIRE/WESTERN TO WILSHIRE/RODEO ON
WILSHIRE BLVD ALIGNMENT OPTION
PLAN & PROFILE
STATION 202+00 TO 227+00

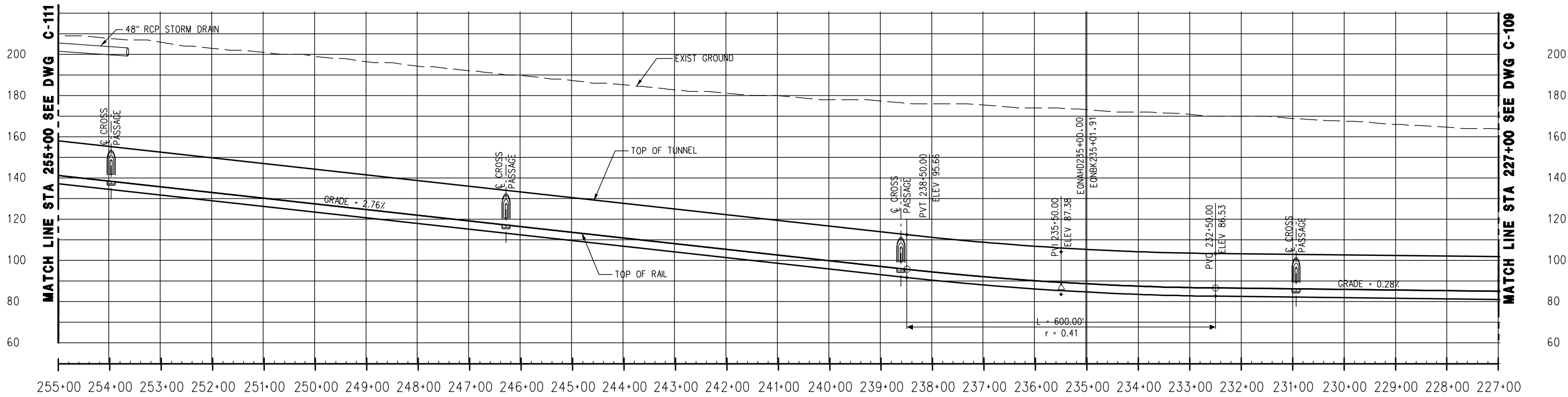
CONTRACT NO	
DRAWING NO C-109	REV B
SCALE 1" = 100'	
SHEET NO	

User Name: \$USER \$DATE \$TIME \$FILES

CURVE DATA										
CURVE NO	Ls IN	Ls OUT	I	Rc	Lc	Er	Ea	Eu	V	mph
1-1050	0'	0'	0° 26' 08"	45000'	341.99'	0.50"	0"	0.50"	75	
2-1050	0'	0'	0° 26' 08"	45000'	341.99'	0.50"	0"	0.50"	75	



PLAN



PROFILE

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

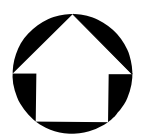
DESIGNED BY
S. ALDRETE
DRAWN BY
S. ALDRETE
CHECKED BY
W. GUO
IN CHARGE
R. CHOY
DATE
AUGUST 2011



LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY
Metro
PROJECT MANAGER _____

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
WILSHIRE/WESTERN TO WILSHIRE/RODEO ON
WILSHIRE BLVD ALIGNMENT OPTION
PLAN & PROFILE
STATION 227+00 TO 255+00

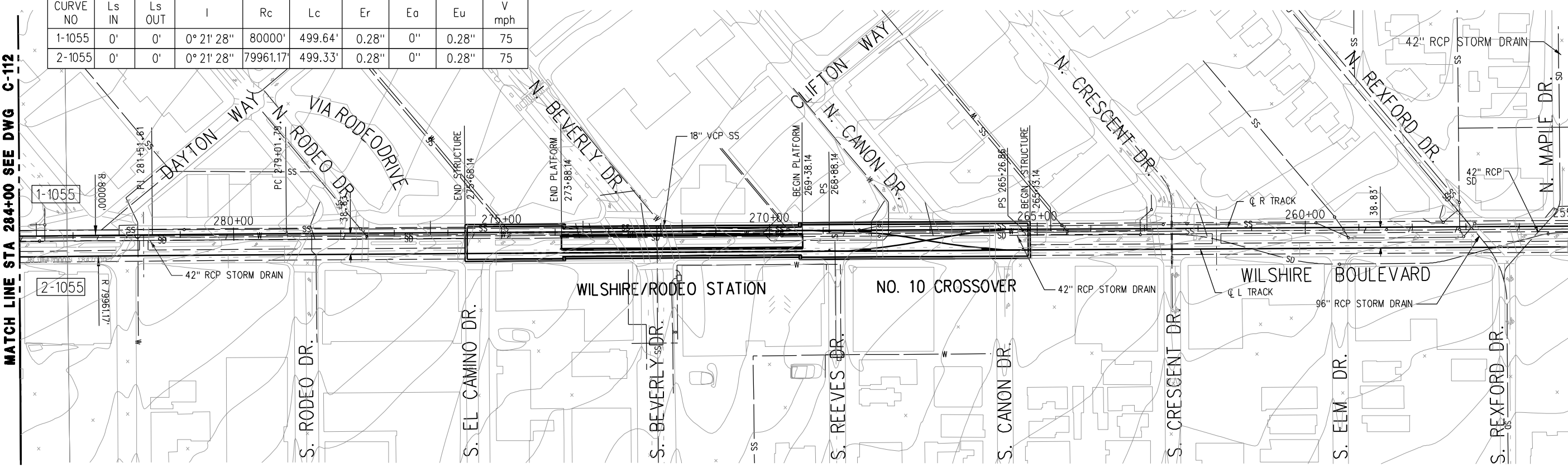
CONTRACT NO	
DRAWING NO C-110	REV B
SCALE 1' = 100'	
SHEET NO	



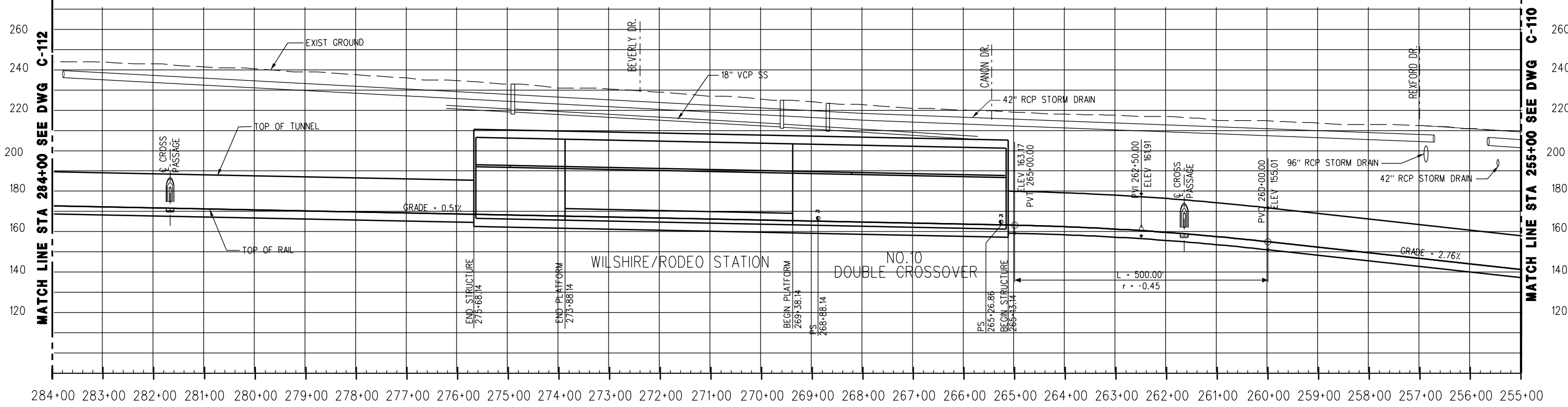
CURVE DATA									
CURVE NO	Ls IN	Ls OUT	I	Rc	Lc	Er	Ea	Eu	V mph
1-1055	0'	0'	0° 21' 28"	80000'	499.64'	0.28"	0"	0.28"	75
2-1055	0'	0'	0° 21' 28"	79961.17'	499.33'	0.28"	0"	0.28"	75

MATCH LINE STA 284+00 SEE DWG C-112

MATCH LINE STA 255+00 SEE DWG C-110



PLAN



PROFILE

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
W. GUO
DRAWN BY
W. GUO
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011

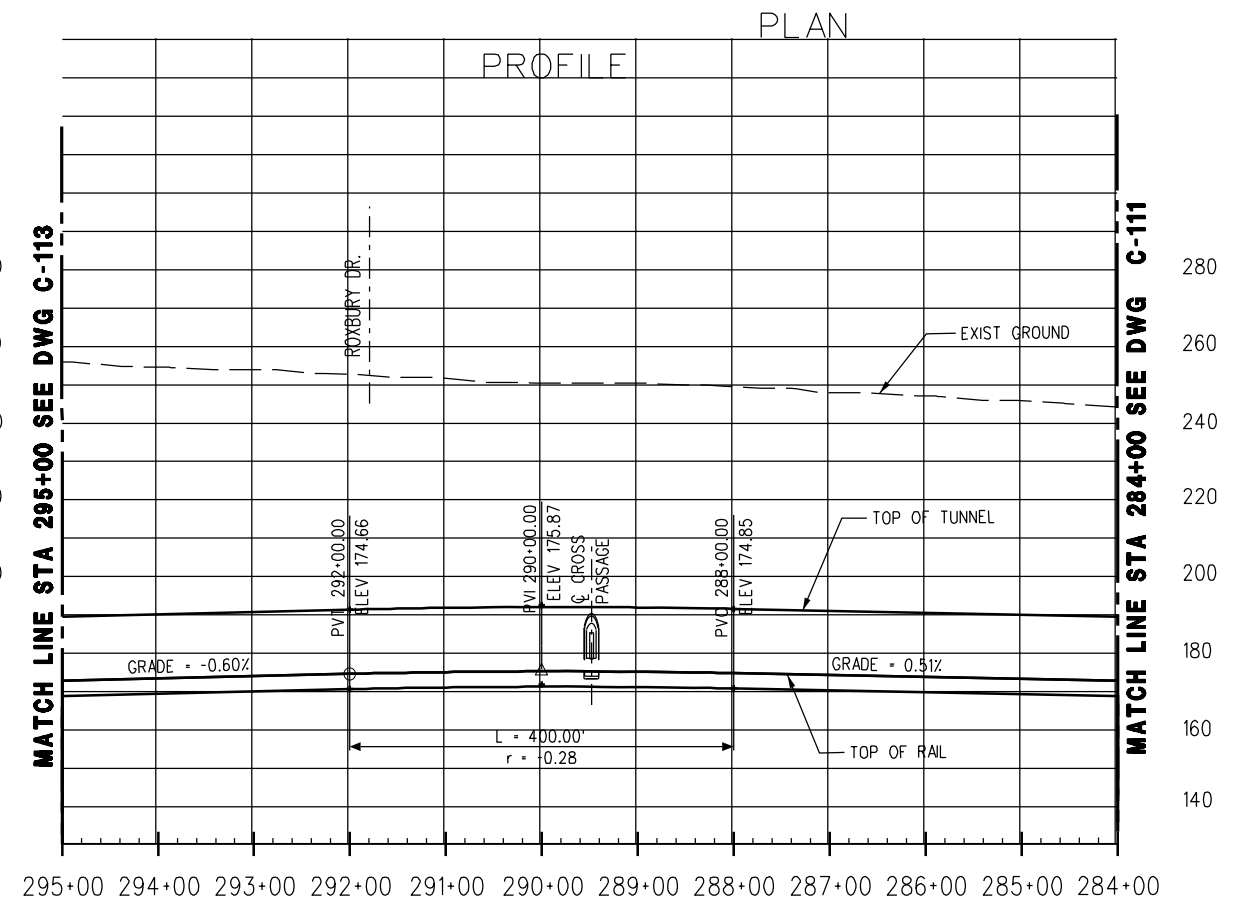
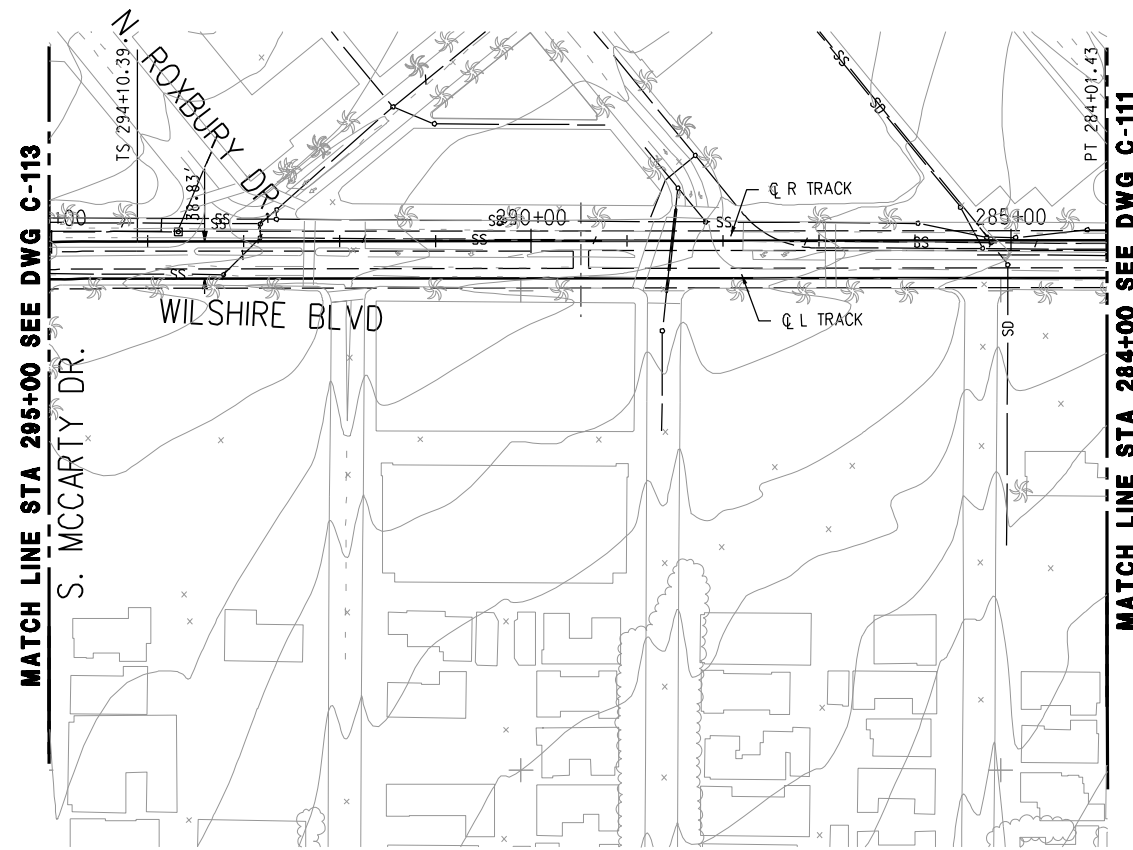


LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY
Metro
PROJECT MANAGER _____

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
WILSHIRE/WESTERN TO WILSHIRE/RODEO ON
WILSHIRE BLVD ALIGNMENT OPTION
PLAN & PROFILE
STATION 255+00 TO 284+00

CONTRACT NO	
DRAWING NO C-111	REV B
SCALE 1"=100'	
SHEET NO	

User Name: \$USER \$DATE \$TIME \$FILENAME> \$FILES



CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

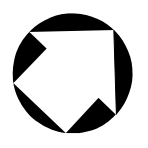
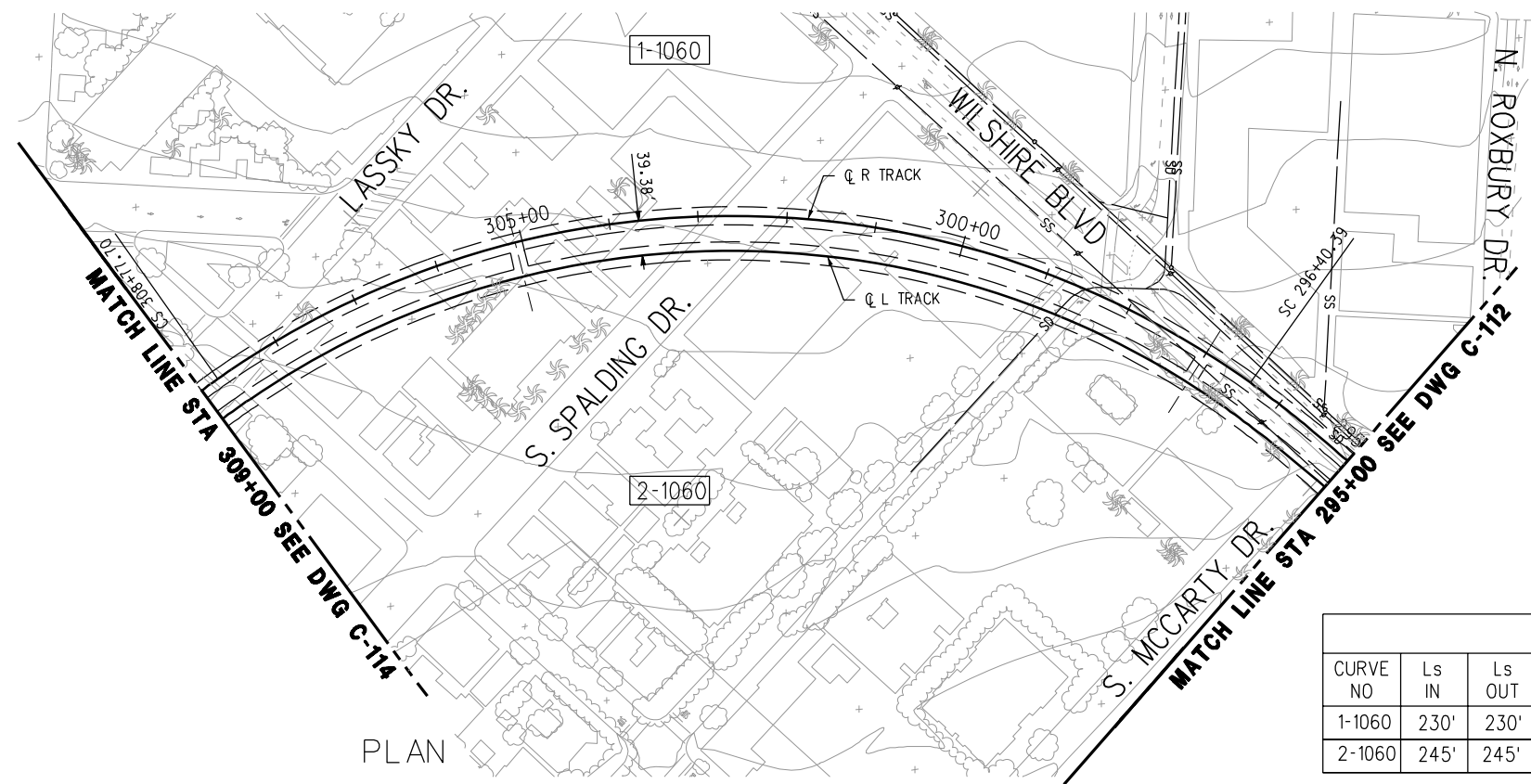
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
W. GUO
DRAWN BY
W. GUO
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011

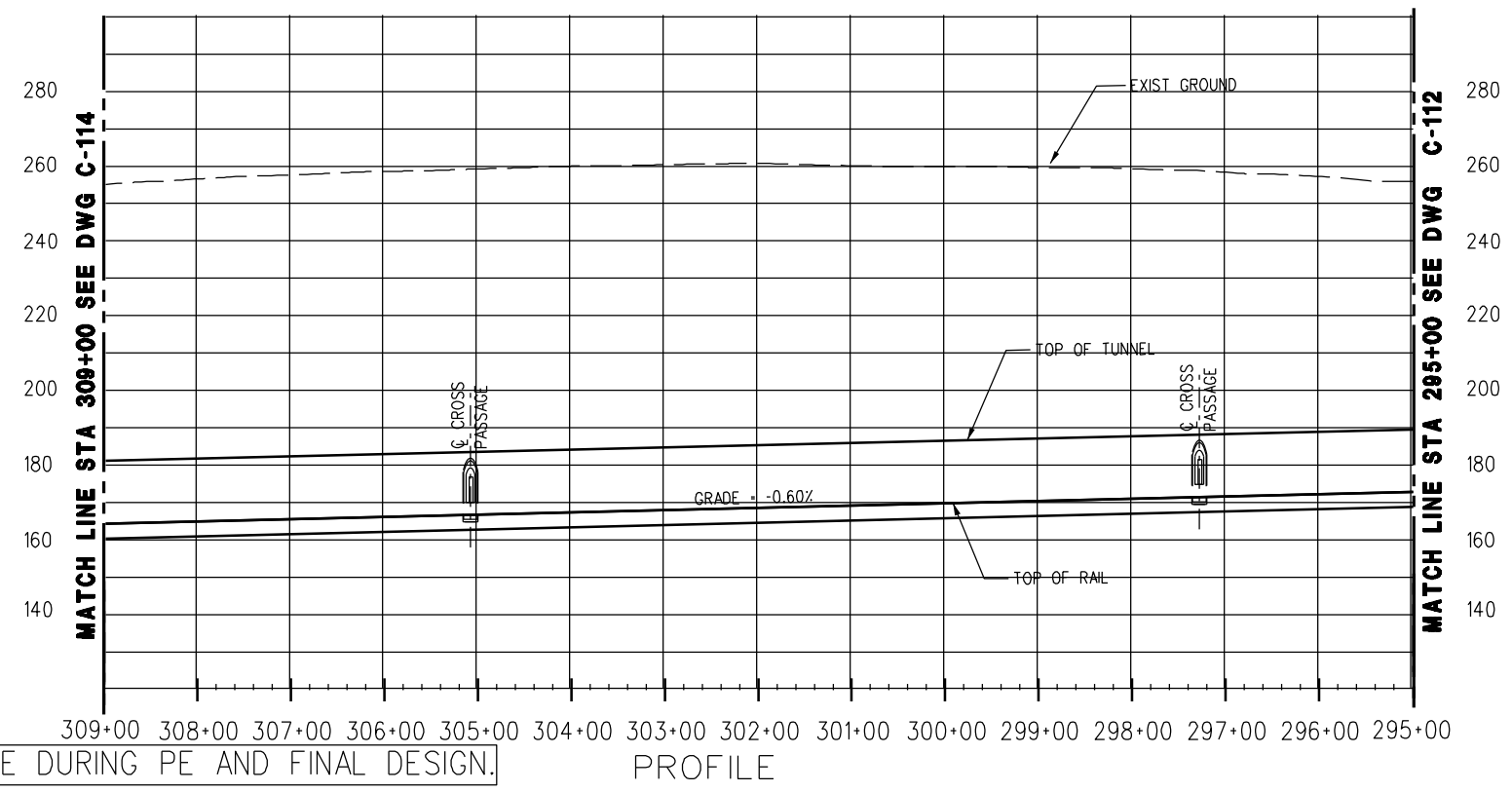
M Metro
PR PROJECT MANAGER _____
 LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

WESTSIDE SUBWAY EXTENSION
 FINAL EIS/EIR APPENDIX A
 CENTURY CITY CONSTELLATION BLVD
 ALIGNMENT OPTION
 PLAN & PROFILE
 STATION 284+00 TO 295+00

CONTRACT NO	
DRAWING NO C-112	REV B
SCALE 1' = 100'	
SHEET NO	

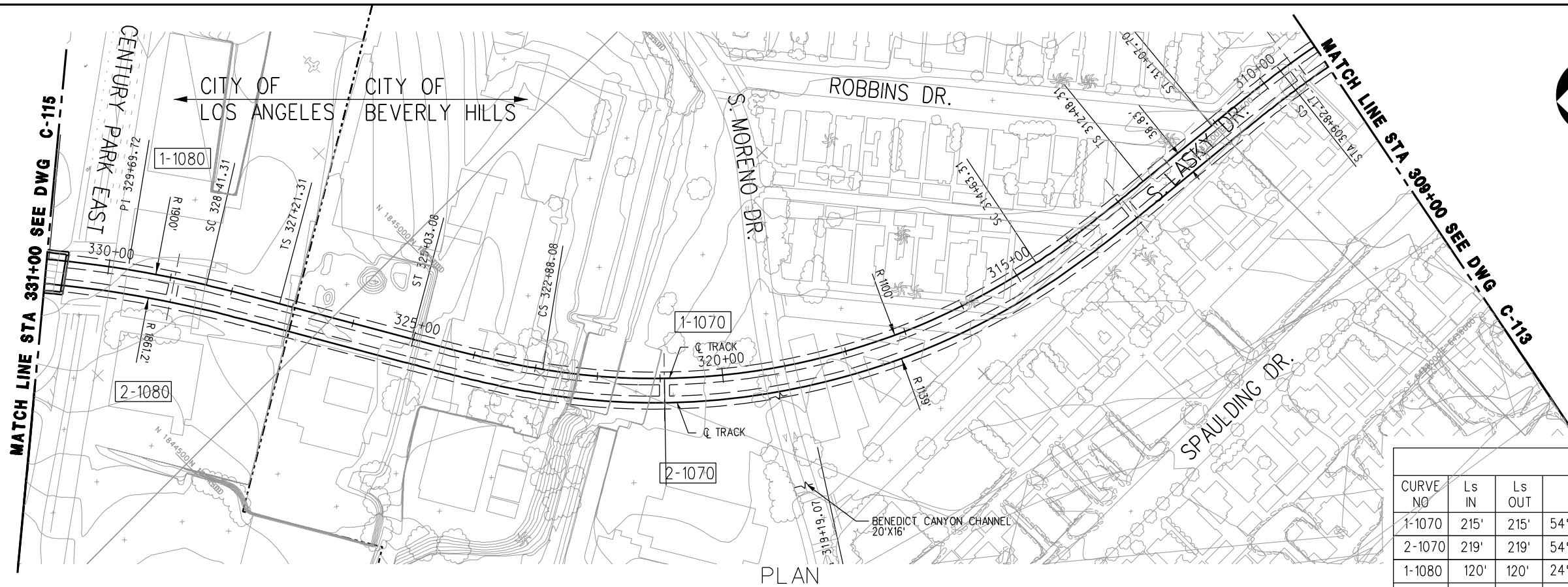


CURVE DATA									
CURVE NO	Ls IN	Ls OUT	I	Rc	Lc	Er	Ea	Eu	V mph
1-1060	230'	230'	84° 04' 14"	1000'	1237.31'	8.12"	4"	4.12"	45
2-1060	245'	245'	84° 04' 14"	961.20'	1165.38'	8.45"	4"	4.45"	45

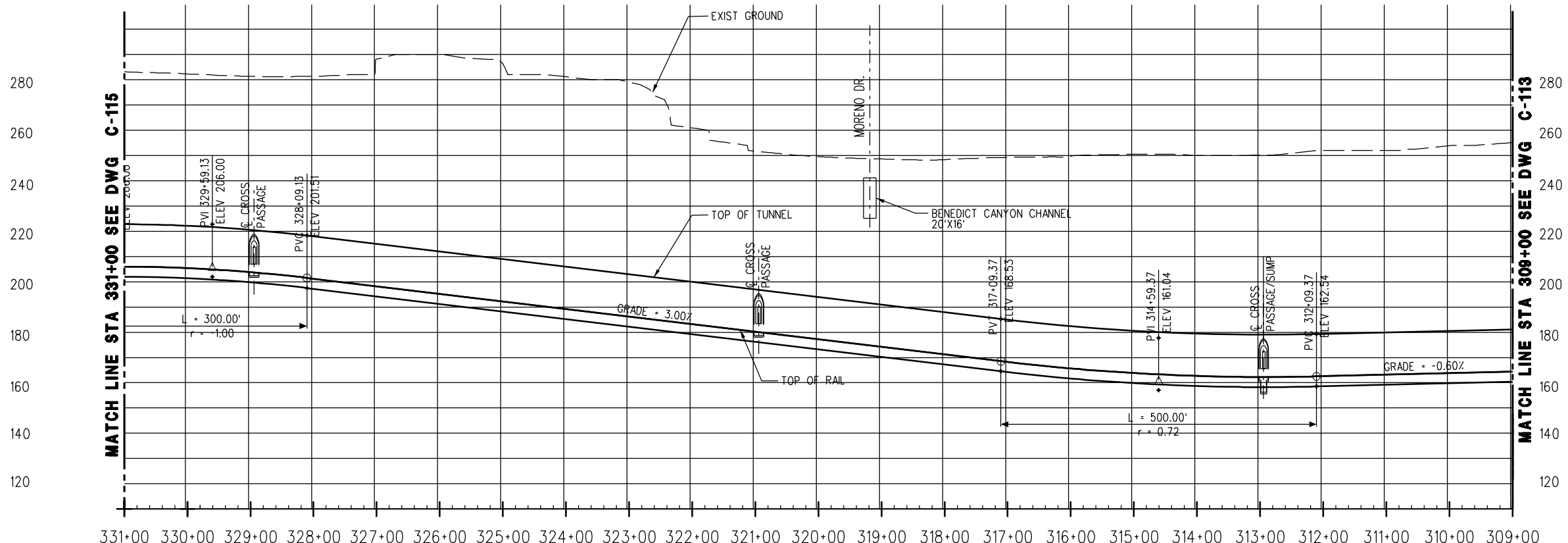


CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

	DESIGNED BY W. GUO DRAWN BY W. GUO CHECKED BY S. ALDRETE IN CHARGE R. CHOY DATE AUGUST 2011	Metro LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY PROJECT MANAGER _____	WESTSIDE SUBWAY EXTENSION FINAL EIS/EIR APPENDIX A CENTURY CITY CONSTELLATION BLVD ALIGNMENT OPTION PLAN & PROFILE STATION 295+00 TO 309+00
			CONTRACT NO DRAWING NO C-113 SCALE 1"=100' SHEET NO



CURVE DATA									
CURVE NO	Ls IN	Ls OUT	I	Rc	Lc	Er	Ea	Eu	V mph
1-1070	215'	215'	54° 09' 32"	1100'	824.77'	7.38"	4"	3.38"	45
2-1070	219'	219'	54° 09' 32"	1139'	857.64'	7.13"	4"	3.13"	45
1-1080	120'	120'	24° 18' 48"	1900'	255.53'	4.27"	2.25"	2.02"	45
2-1080	119'	119'	24° 18' 48"	1861.2'	248.68'	4.36"	2.25"	2.11"	45



CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

PROFILE

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
W. GUO
DRAWN BY
W. GUO
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011

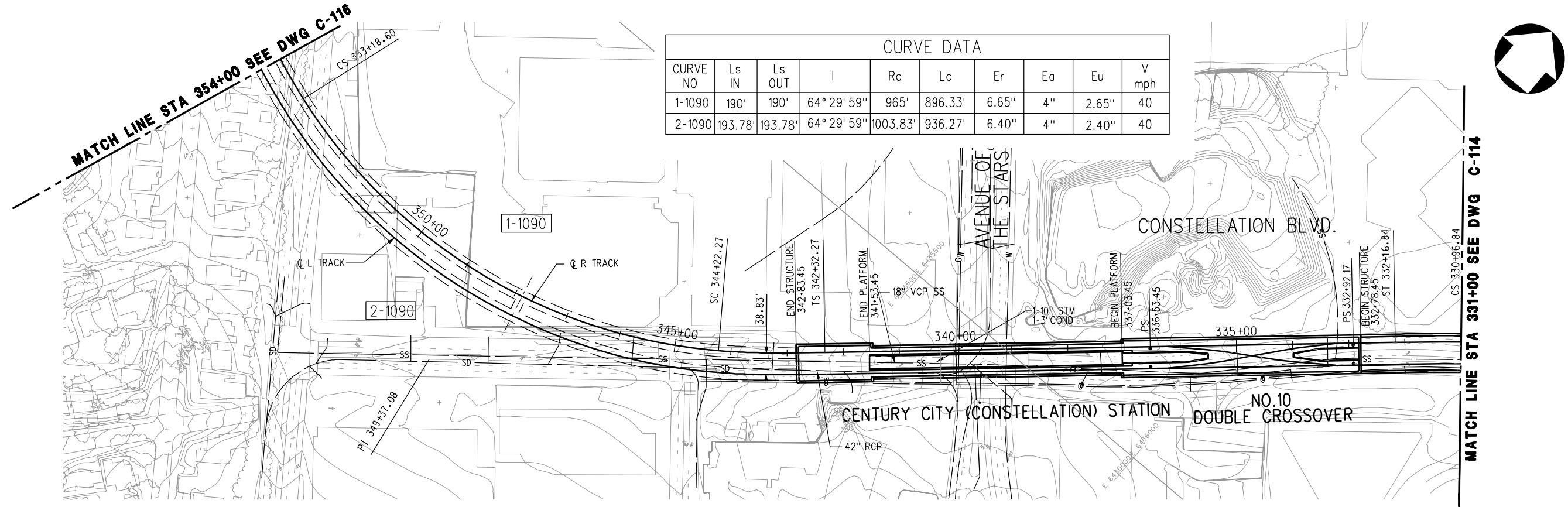
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

PROJECT MANAGER _____

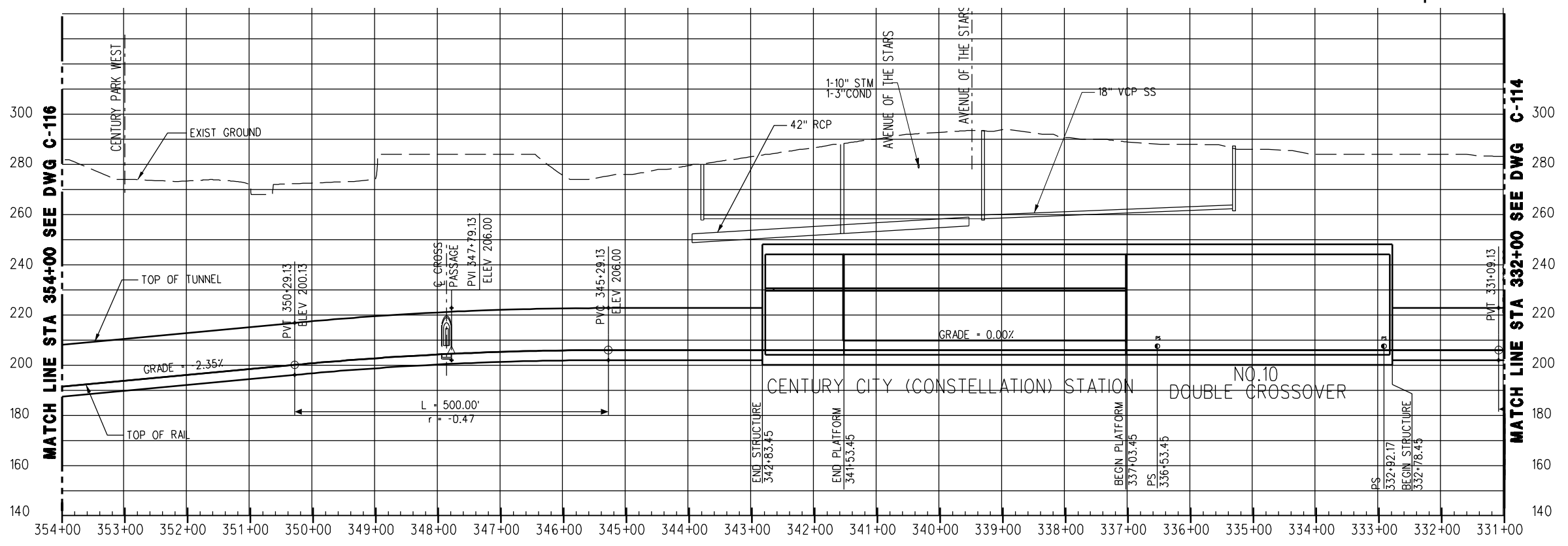
WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
CENTURY CITY CONSTELLATION BLVD
ALIGNMENT OPTION
PLAN & PROFILE
STATION 309+00 TO 331+00

CONTRACT NO	
DRAWING NO C-114	REV B
SCALE 1"=100'	
SHEET NO	

CURVE DATA									
CURVE NO	Ls IN	Ls OUT	I	Rc	Lc	Er	Eo	Eu	V mph
1-1090	190'	190'	64° 29' 59"	965'	896.33'	6.65"	4"	2.65"	40
2-1090	193.78'	193.78'	64° 29' 59"	1003.83'	936.27'	6.40"	4"	2.40"	40



PLAN



PROFILE

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

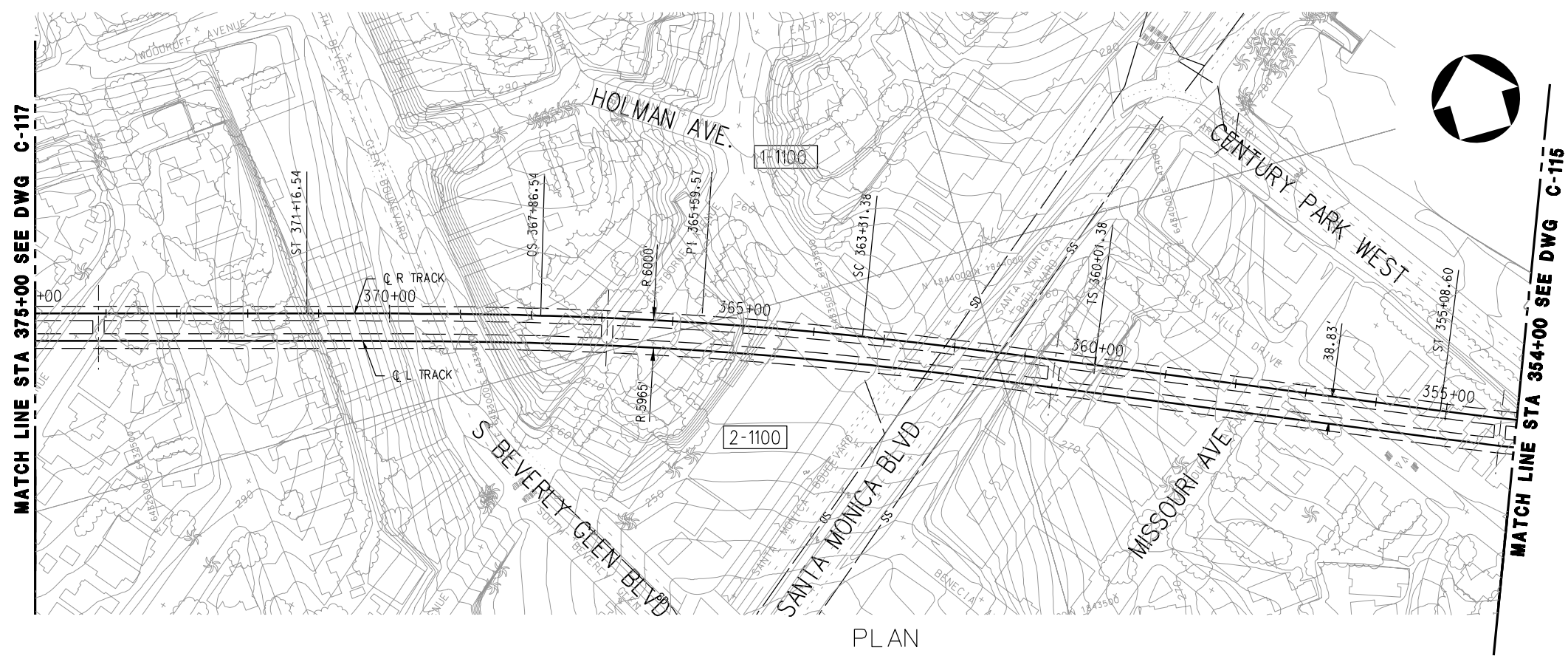
DESIGNED BY
W. GUO
DRAWN BY
W. GUO
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

PROJECT MANAGER _____

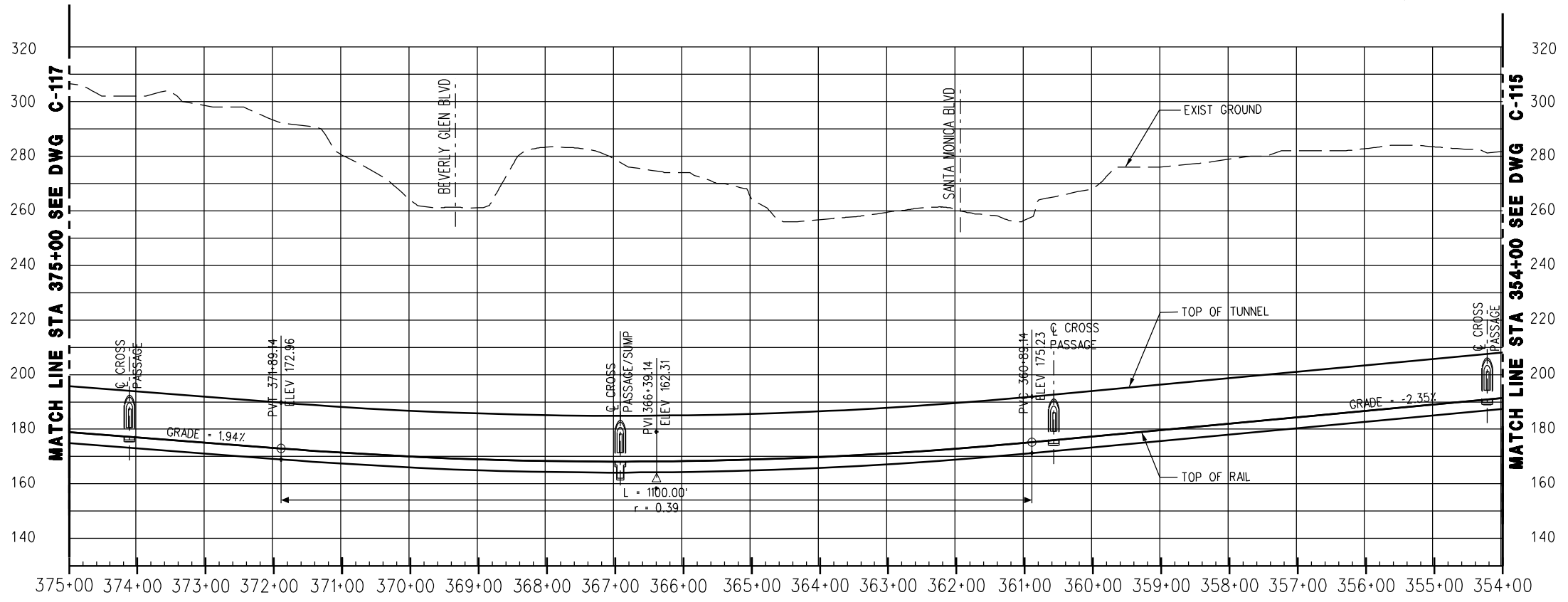
WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
CENTURY CITY CONSTELLATION BLVD
ALIGNMENT OPTION
PLAN & PROFILE
STATION 331+00 TO 354+00

CONTRACT NO	
DRAWING NO C-115	REV B
SCALE 1"=100'	
SHEET NO	



PLAN

CURVE DATA									
CURVE NO	Ls IN	Ls OUT	I	Rc	Lc	Er	Ea	Eu	V mph
1-1100	330'	330'	7° 29' 52"	6000'	455.16'	3.76"	3.75"	0.01"	75
2-1100	330'	330'	7° 29' 52"	5965'	450.59'	3.78"	3.75"	0.03"	75



PROFILE

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY C. GRIFFITH
DRAWN BY C. GRIFFITH
CHECKED BY S. ALDRETE
IN CHARGE R. CHOY
DATE AUGUST 2011

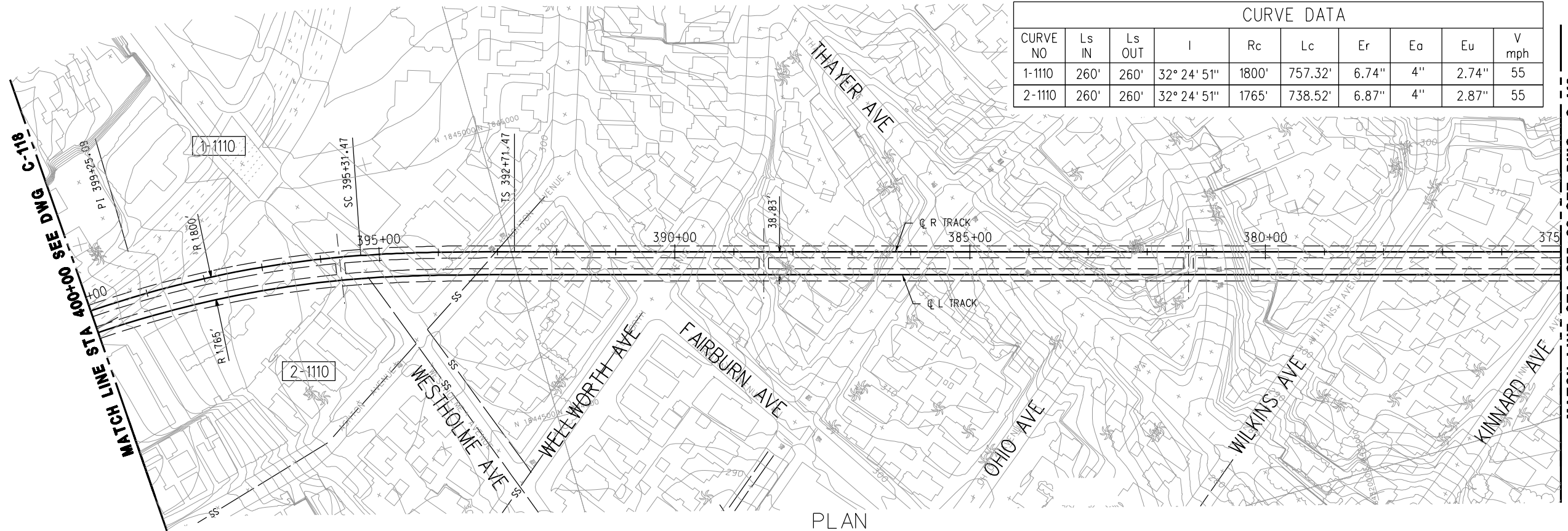
LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

PROJECT MANAGER _____

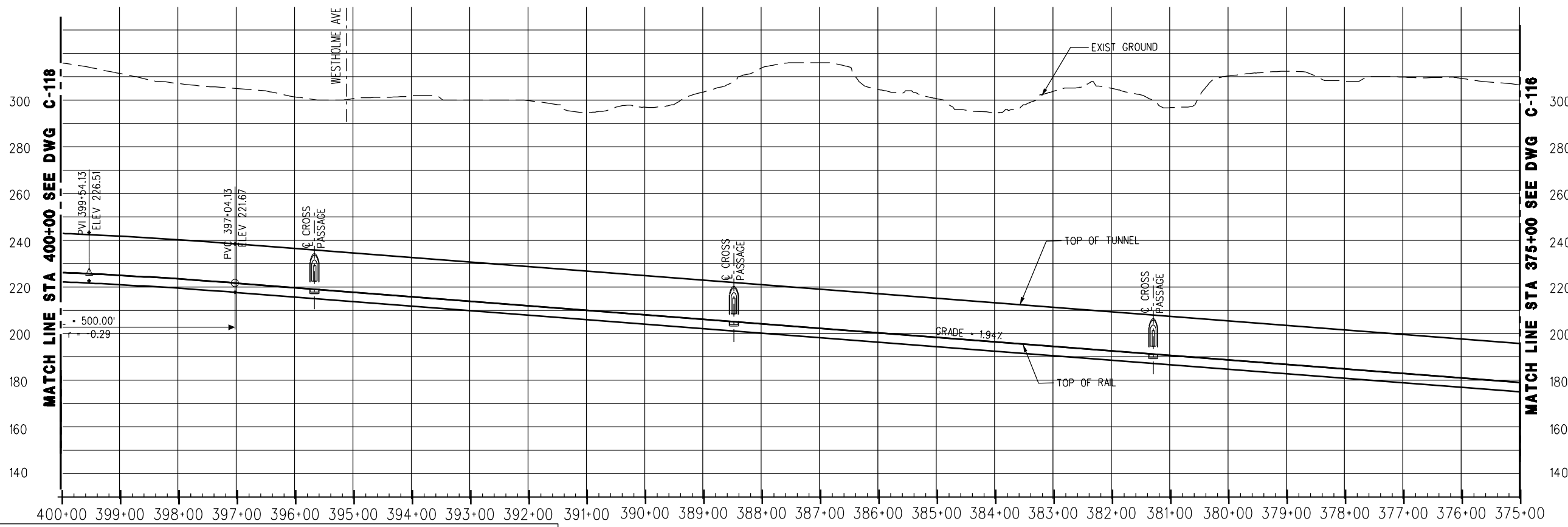
WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
CENTURY CITY CONSTELLATION BLVD
ALIGNMENT OPTION
PLAN & PROFILE
STATION 354+00 TO 375+00

CONTRACT NO	
DRAWING NO C-116	REV B
SCALE 1" = 100'	
SHEET NO	

CURVE DATA									
CURVE NO	Ls IN	Ls OUT	I	Rc	Lc	Er	Ea	Eu	V mph
1-1110	260'	260'	32° 24' 51"	1800'	757.32'	6.74"	4"	2.74"	55
2-1110	260'	260'	32° 24' 51"	1765'	738.52'	6.87"	4"	2.87"	55



PLAN



PROFILE

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

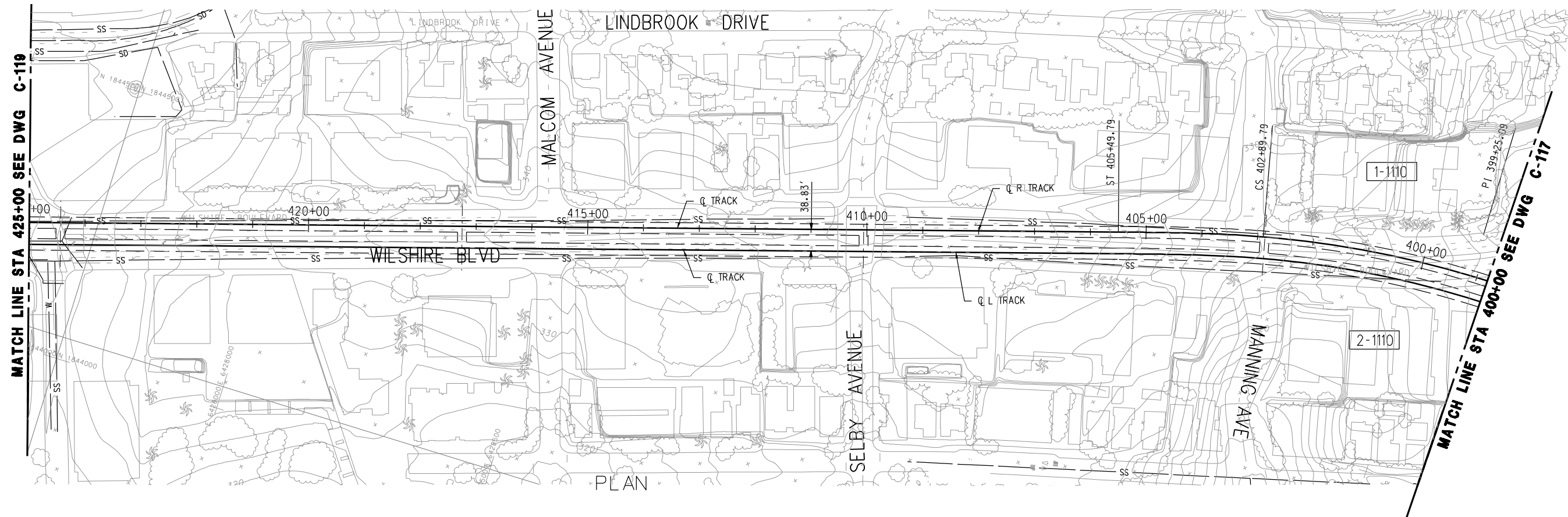
DESIGNED BY
C. GRIFFITH
DRAWN BY
C. GRIFFITH
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011



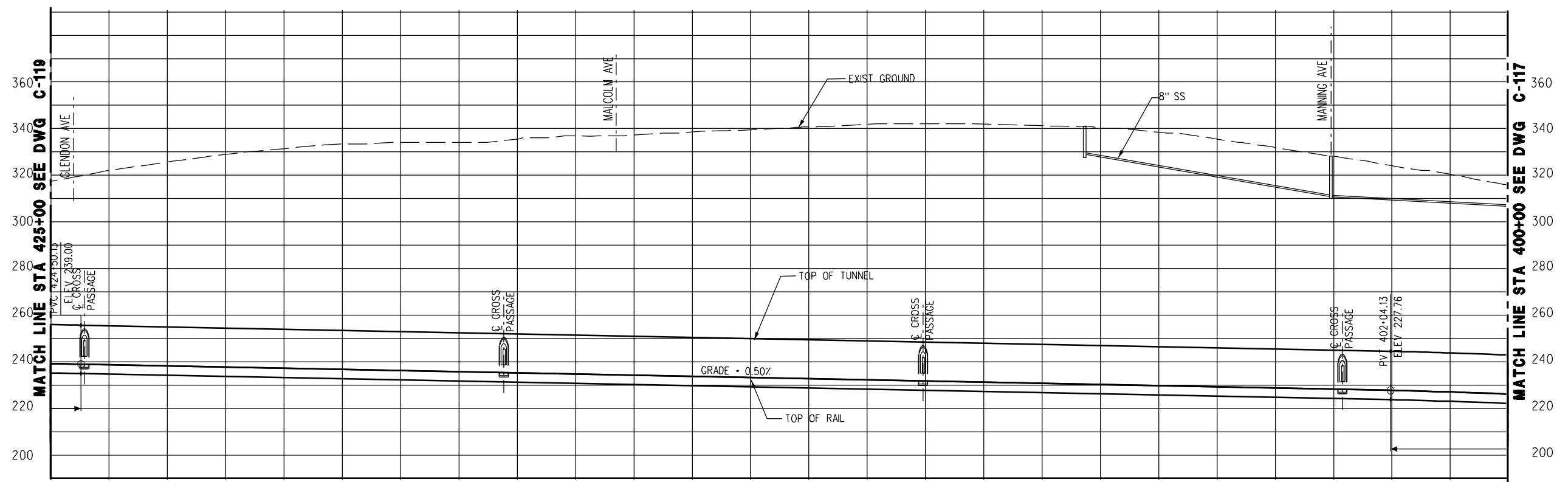
LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
CENTURY CITY CONSTELLATION BLVD
ALIGNMENT OPTION
PLAN & PROFILE
STATION 375+00 TO 400+00

CONTRACT NO	
DRAWING NO C-117	REV B
SCALE 1' = 100'	
SHEET NO	



PLAN



PROFILE

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

425+00 424+00 423+00 422+00 421+00 420+00 419+00 418+00 417+00 416+00 415+00 414+00 413+00 412+00 411+00 410+00 409+00 408+00 407+00 406+00 405+00 404+00 403+00 402+00 401+00

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
C. GRIFFITH
DRAWN BY
C. GRIFFITH
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011



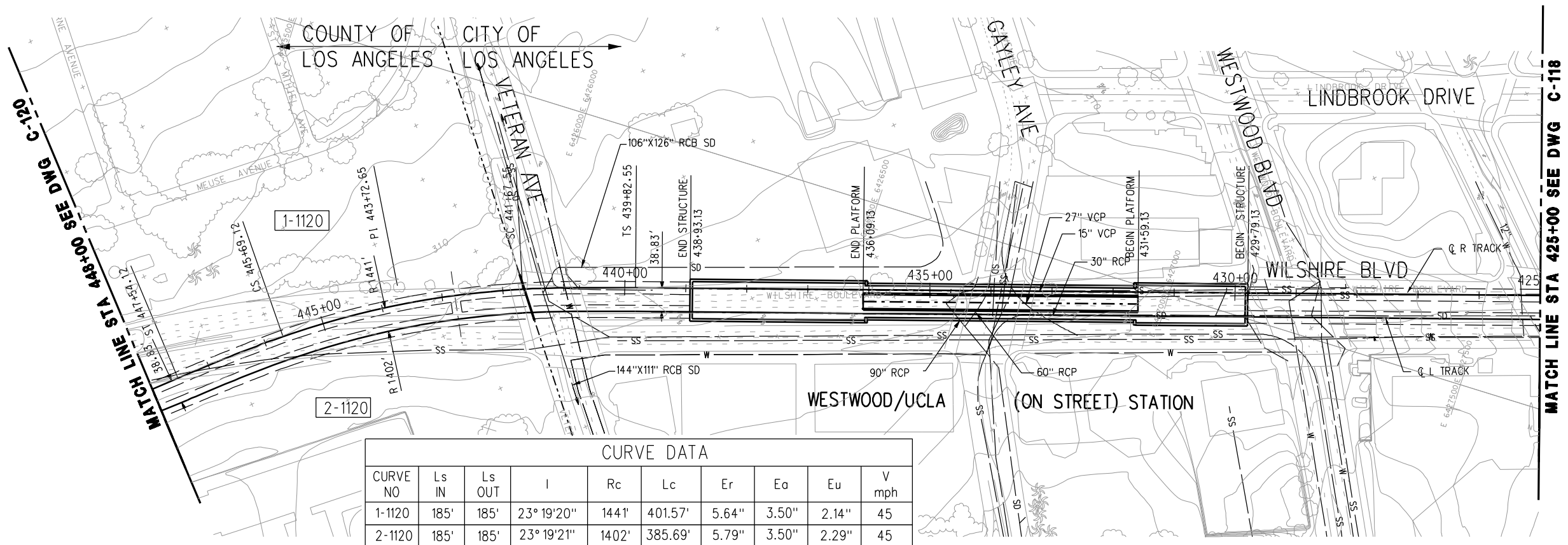
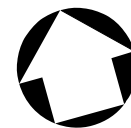
**LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY**

Metro

PROJECT MANAGER _____

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
WESTWOOD UCLA ON-STREET TO VA HOSPITAL
SOUTH OF WILSHIRE BLVD ALIGN. OPTION
PLAN & PROFILE
STATION 400+00 TO 425+00

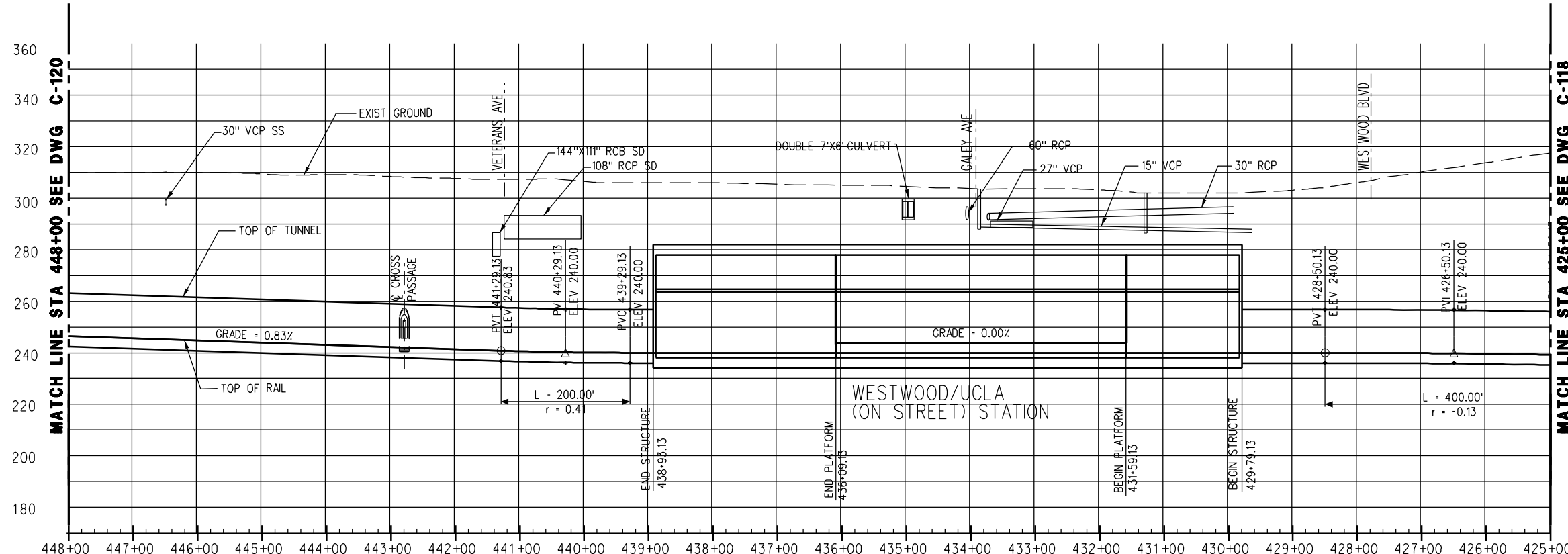
CONTRACT NO	
DRAWING NO C-118	REV B
SCALE 1" = 100'	
SHEET NO	



CURVE DATA

CURVE NO	Ls IN	Ls OUT	I	Rc	Lc	Er	Ea	Eu	V mph
1-1120	185'	185'	23° 19' 20"	1441'	401.57'	5.64"	3.50"	2.14"	45
2-1120	185'	185'	23° 19' 21"	1402'	385.69'	5.79"	3.50"	2.29"	45

PLAN





PROFILE

CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

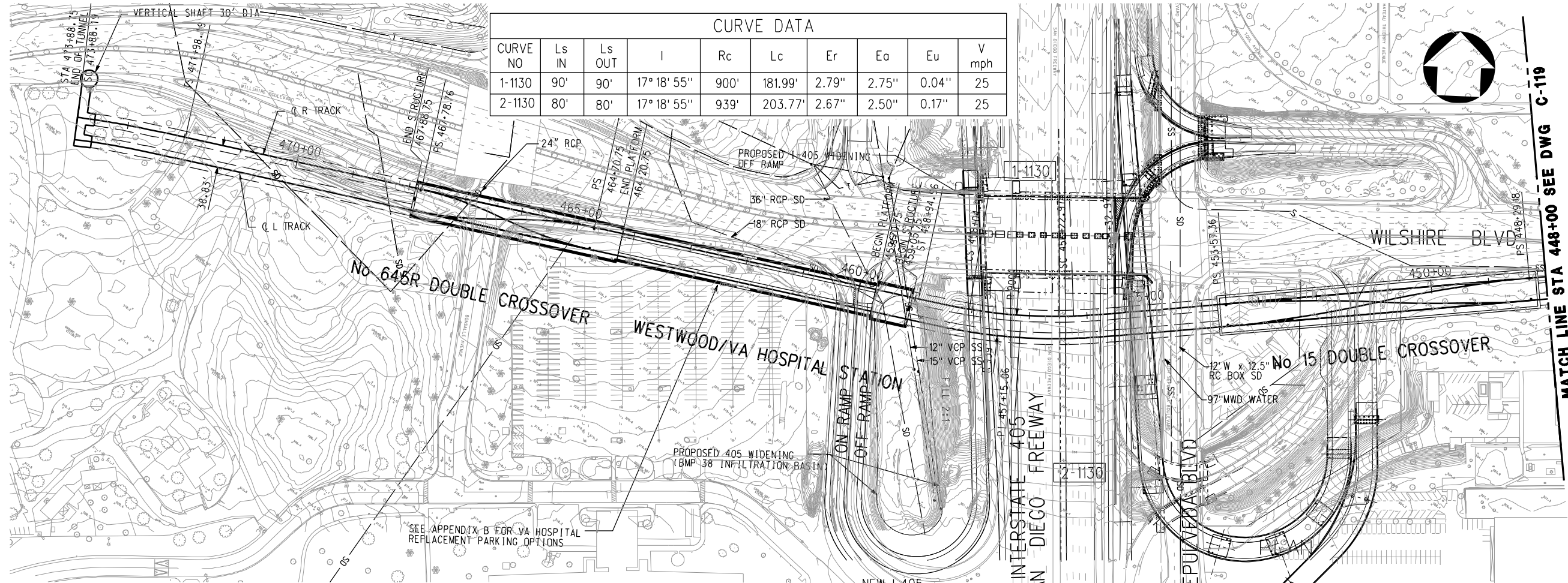
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
C. GRIFFITH
DRAWN BY
C. GRIFFITH
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011

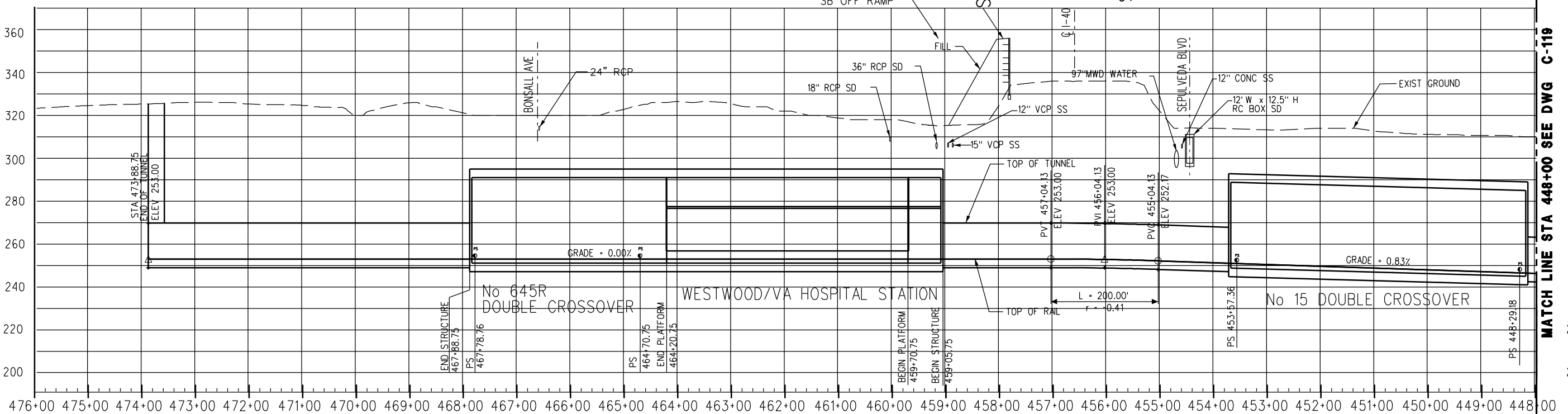

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

Metro
 PROJECT MANAGER _____

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
WESTWOOD UCLA ON-STREET TO VA HOSPITAL
SOUTH OF WILSHIRE BLVD ALIGN. OPTION
PLAN & PROFILE
STATION 425+00 TO 448+00

CONTRACT NO	
DRAWING NO	REV
C-119	B
SCALE	
1"=100'	
SHEET NO	



CURVE DATA									
CURVE NO	Ls IN	Ls OUT	I	Rc	Lc	Er	Ea	Eu	V mph
1-1130	90'	90'	17° 18' 55"	900'	181.99'	2.79"	2.75"	0.04"	25
2-1130	80'	80'	17° 18' 55"	939'	203.77'	2.67"	2.50"	0.17"	25



CONCEPTUAL ONLY - SUBJECT TO CHANGE DURING PE AND FINAL DESIGN.

ALIGNMENT SUBJECT TO REFINEMENT IN PROGRESSIVE PHASES. CROSSOVER STRUCTURE TO BE LOCATED AT LEAST 100' AWAY FROM GSA STRUCTURE.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
C. GRIFFITH
DRAWN BY
C. GRIFFITH
CHECKED BY
S. ALDRETE
IN CHARGE
R. CHOY
DATE
AUGUST 2011

M Metro
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
PR PROJECT MANAGER

WESTSIDE SUBWAY EXTENSION
FINAL EIS/EIR APPENDIX A
WESTWOOD UCLA ON-STREET TO VA HOSPITAL
SOUTH OF WILSHIRE BLVD ALIGN. OPTION
PLAN & PROFILE
STATION 448+00 TO 473+88.75

CONTRACT NO	
DRAWING NO C-120	REV B
SCALE 1" = 100'	
SHEET NO	