

Westside Subway Extension

Draft Environmental Impact Statement/Environmental Impact Report—Volume 2

APPENDIX A: Draft Plan and Profile, and Typical Section Drawings

APPENDIX B: Draft Station Plan Report



U.S. Department
of Transportation
Federal Transit
Administration



WESTSIDE SUBWAY EXTENSION
Project No. PS-4350-2000

APPENDIX A

**Draft Plan & Profile and Typical Section
Drawings**

Prepared for:



Prepared by:

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September 2010

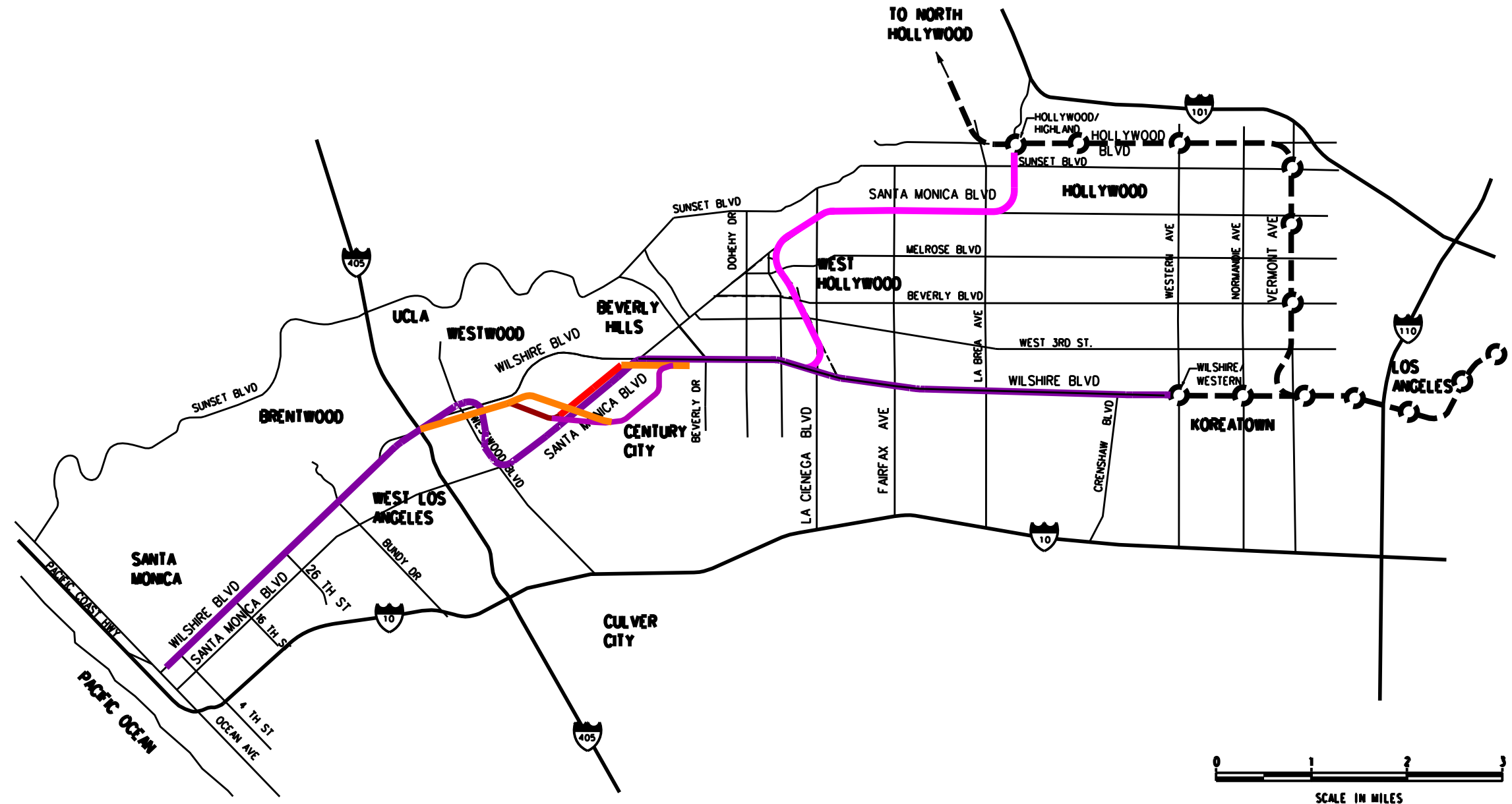
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

WESTSIDE SUBWAY EXTENSION

ADVANCED CONCEPTUAL ENGINEERING DRAWINGS

DRAFT PLAN & PROFILE AND TYPICAL SECTION DRAWINGS

SEPTEMBER 2010



LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY



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INDEX OF DRAWINGS

DWG NUMBER NAME

DWG NUMBER NAME

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OPTION 4: CENTURY CITY & ALIGNMENT OPTIONS (CONTINUED)

SEGMENT R (CENTURY CITY CONSTELLATION WESTWOOD/UCLA OFF-STREET VIA CENTRAL)

- C-700 R KEY MAP
- C-701 R PLAN & PROFILE STA 339+25 TO STA 369+00
- C-702 R PLAN & PROFILE STA 369+00 TO STA 397+00
- C-703 R PLAN & PROFILE STA 397+00 TO STA 424+00
- C-704 R PLAN & PROFILE STA 424+00 TO STA 453+00
- C-705 R PLAN & PROFILE STA 453+00 TO STA 460+73.136

SEGMENT S (CENTURY CITY CONSTELLATION WESTWOOD/UCLA ON-STREET VIA CENTRAL)

- C-700 S KEY MAP
- C-701 S PLAN & PROFILE STA 339+25 TO STA 354+00
- C-702 S PLAN & PROFILE STA 354+00 TO STA 382+00
- C-703 S PLAN & PROFILE STA 382+00 TO STA 412+00
- C-704 S PLAN & PROFILE STA 412+00 TO STA 437+00
- C-705 S PLAN & PROFILE STA 437+00 TO STA 458+15.555

SEGMENT T (CENTURY CITY CONSTELLATION WESTWOOD/UCLA OFF-STREET VIA WEST)

- C-700 T KEY MAP
- C-701 T PLAN & PROFILE STA 339+25 TO STA 369+00
- C-702 T PLAN & PROFILE STA 369+00 TO STA 398+00
- C-703 T PLAN & PROFILE STA 398+00 TO STA 424+00
- C-704 T PLAN & PROFILE STA 424+00 TO STA 450+00
- C-705 T PLAN & PROFILE STA 450+00 TO STA 478+00
- C-706 T PLAN & PROFILE STA 478+00 TO STA 491+68.575

SEGMENT U (CENTURY CITY CONSTELLATION WESTWOOD/UCLA ON-STREET VIA WEST)

- C-700 U KEY MAP
- C-701 U PLAN & PROFILE STA 339+25 TO STA 369+00
- C-702 U PLAN & PROFILE STA 369+00 TO STA 397+00
- C-703 U PLAN & PROFILE STA 397+00 TO STA 422+00
- C-704 U PLAN & PROFILE STA 422+00 TO STA 448+00
- C-705 U PLAN & PROFILE STA 448+00 TO STA 471+00
- C-706 U PLAN & PROFILE STA 471+00 TO STA 489+56.416

OPTION 5: BEING SHOWN IN OPTION 4 SHEETS

OPTION 6: VA HOSPITAL - NORTH OF WILSHIRE

- C-700 F KEY MAP
- C-701 F PLAN & PROFILE STA 433+35 TO STA 457+00
- C-702 F PLAN & PROFILE STA 457+00 TO STA 475+00
- C-703 F PLAN & PROFILE STA 475+00 TO STA 488+49.38

SPECIAL TRACKWORK OPTION: ADDITIONAL CROSSOVERS (WILSHIRE/FAIRFAX, WILSHIRE/LA CIENEGA, WILSHIRE/RODEO, & WILSHIRE/26TH)

- C-700 V KEY MAP
- C1-100 V KEY MAP ALTERNATIVE #1 WITH CROSSOVER LOCATIONS
- C2-100 V KEY MAP ALTERNATIVE #2 WITH CROSSOVER LOCATIONS
- C3-100 V KEY MAP ALTERNATIVE #3 WITH CROSSOVER LOCATIONS
- C4-100 V KEY MAP ALTERNATIVE #4 WITH CROSSOVER LOCATIONS
- C5-100 V KEY MAP ALTERNATIVE #5 WITH CROSSOVER LOCATIONS

SPECIAL TRACKWORK OPTION: ADDITIONAL CROSSOVERS (WILSHIRE/FAIRFAX, WILSHIRE/LA CIENEGA, WILSHIRE/RODEO, & WILSHIRE/26TH) (CONTINUED)

- C-701 V PLAN & PROFILE STA 147+00 TO STA 175+00
- C-702 V PLAN & PROFILE STA 183+00 TO STA 212+00
- C-703 V PLAN & PROFILE STA 260+00 TO STA 285+00
- C-704 V PLAN & PROFILE STA 548+00 TO STA 572+00

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- CY-101 PROPOSED EXPANSION OF DIVISION 20 MAINTENANCE FACILITIES - SHEET 1 OF 3
- CY-102 PROPOSED EXPANSION OF DIVISION 20 MAINTENANCE FACILITIES - SHEET 2 OF 3
- CY-103 PROPOSED EXPANSION OF DIVISION 20 MAINTENANCE FACILITIES - SHEET 3 OF 3
- CY-104 PROPOSED EXPANSION OF DIVISION 20 MAINTENANCE FACILITIES - SOUTH YARD EXPANSION
- CY-105 RAIL YARD ALTERNATIVE - PLAN & PROFILE 0+00 TO 28+00
- CY-106 RAIL YARD ALTERNATIVE - PLAN & PROFILE 28+00 TO 49+00
- CY-107 RAIL YARD ALTERNATIVE - PLAN & PROFILE 49+00 TO 65+00

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- CY-000 RAIL OPERATIONS CENTER ALTERNATIVE SITES KEY MAP
- CY-108 KEY MAP - RAIL OPERATIONS CENTER EXPANSION
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TYPICAL TUNNEL CROSS SECTIONS

- Y-010 TUNNEL TYPICAL SECTIONS PRECAST CONCRETE LINING
- Y-012 TUNNEL TYPICAL SECTIONS INVERT DETAILS
- Y-015 CROSSPASSAGES PLAN AND SECTIONS PRECAST CONCRETE LINING
- Y-016 CROSSPASSAGE AND SUMP SHEET 1 OF 2
- Y-017 CROSSPASSAGE AND SUMP SHEET 2 OF 2
- Y-018 VERTICAL CROSSPASSAGE & EMERGENCY EXIT
- Y-019 TUNNEL IN GASSY GROUND PRECAST CONCRETE LINING JOINT DETAILS
- Y-022 TUNNEL/STATION INTERFACE
- Y-023 TYPICAL CROSS SECTION STATION
- Y-024 CROSS SECTION AT LA CIENEGA STATION
- Y-025.1 CROSS SECTION AT VA STATION
- Y-025.2 CROSS SECTION AT HOHI STATION
- Y-028 CONNECTION STRUCTURE/VENT SHAFT PLAN
- Y-029 CONNECTION STRUCTURE SECTIONS 1 OF 2
- Y-030 CONNECTION STRUCTURE SECTIONS 2 OF 2

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE JULY 2010

**LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY**

Metro

PROJECT MANAGER

**WESTSIDE SUBWAY EXTENSION
ADV. CONCEPTUAL ENGINEERING**

INDEX OF DRAWINGS
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CONTRACT NO	
DRAWING NO G-002	REV
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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
PDS	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
PDB	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)
AREA	AMERICAN RAILWAY ENGINEERING ASSOCIATION
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS

AT&SF	ATCHISON, 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
LACFCD	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)
LAWD	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 MCI)

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
CGS	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
CONO	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	CRESOTED 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

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**LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY**

Metro

PROJECT MANAGER _____

**WESTSIDE SUBWAY EXTENSION
ADV. CONCEPTUAL ENGINEERING**

**ABBREVIATIONS & SYMBOLS
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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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**WESTSIDE SUBWAY EXTENSION
ADV. CONCEPTUAL ENGINEERING**

ABBREVIATIONS & SYMBOLS
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CONTRACT NO	
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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		
ST	STREET	V	VALVE, RATE OF SPEED, OR DESIGN SPEED
STA	STATION	VAC	VACUUM
STD	STANDARD OR SEWER TILED DUCT	VAP	VERTICAL ANGLE POINT
STL	STEEL	VAR	VARIABLE OR VARIABLE
STM	STEAM	VCC	VITRIFIED CLAY CONDUIT
STOR	STORAGE	VCD	VITRIFIED CLAY DUCT
STP	STEEL PIPE	VCP	VITRIFIED CLAY PIPE
STR	STRAIGHT	VCP(ES)	VITRIFIED CLAY PIPE (EXTRA STRENGTH)
STRUCT	STRUCTURE	VCT	VITRIFIED CLAY TILE
STY	STYRENE	VERT	VERTICAL
SUB	SUBMITTED	VL	VAULT
SUPV	SUPERVISE OR SUPERVISOR		
SURF	SURFACE	W	WEST OR WATER
SW	SWITCH	W/	WITH
SWK	SIDEWALK	WB	WESTBOUND
SYM	SYMMETRICAL	WD	WATER DETECTOR
		W/E	WEST OF EAST RIGHT-OF-WAY LINE
		WG	WHITE GAS
TAN	TANGENT	WHH	WATER HANDHOLE
T & B	TOP AND BOTTOM	WHSE	WAREHOUSE
TC	TILE CONDUIT, TOP OF CURB, TRACK CENTER, OR TRAIN CONTROL	WI	WROUGHT IRON
TCC	TRAIN CONTROL/COMMUNICATIONS	WID	WIDTH
TCCB	TRAIN CONTROL/COMMUNICATIONS BUILDING	WIP	WROUGHT IRON PIPE
TCCR	TRAIN CONTROL/COMMUNICATIONS ROOM	WL	WATER LEVEL
TD	TILE DUCT OR TILE DRAIN	WLN	WATER LINE
TEL, T	TELEPHONE	WM	WATER METER
TELE	TELESCOPING	WMH	WATER MANHOLE
TEMP	TEMPERATURE OR TEMPORARY	W/O	WITHOUT
TERM	TERMINAL	WP	WORKING POINT OR WORK POINT
TF	TOP OF FACE	WSP	WELDED STEEL PIPE
TG	TOP OF GRADE, TOP OF GRATE, OR TELEGRAPH	WSP(L)	WELDED STEEL PIPE (CEMENT LINED)
THEO	THEORETICAL	WTR	WATER
THK	THICK OR THICKNESS	WTW	WALL TO WALL
TL	TRAFFIC LIGHT OR TOE LENGTH	WV	WATER VALVE
TMH	TELEPHONE MANHOLE	WW	WASTEWATER
TO	TURNOUT	W/W	WEST TO WEST RIGHT-OF-WAY LINE
TOC	TOP OF CURB		
TOP	TOP OF PIPE	X-DRAIN	CROSS DRAIN
TOS	TOP OF SLOPE	X-ING	CROSSING
TP	POLICE TELEPHONE OR TRACTION POWER	X-MITER	TRANSMITTER
TPS	TRACTION POWER SUBSTATION	X-OVER	CROSS OVER
TPSS	TRACTION POWER SUPPLY SYSTEM	X-SECT	CROSS SECTION
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		

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	

0 3/3/94 BASE LINE ISSUE

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LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

WESTSIDE SUBWAY EXTENSION
ADV. CONCEPTUAL ENGINEERING

ABBREVIATIONS & SYMBOLS
SHEET 3 OF 4

CONTRACT NO	
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SHEET NO	

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			

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE JULY 2010

**LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY**

Metro

PROJECT MANAGER _____

WESTSIDE SUBWAY EXTENSION
ADV. CONCEPTUAL ENGINEERING


ABBREVIATIONS & SYMBOLS
SHEET 4 OF 4

CONTRACT NO
DRAWING NO G - 006
SCALE
SHEET NO

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ALTERNATIVE DESCRIPTIONS


CATEGORY	RANGE	SHEET NO.	STATIONING	STATIONING EQUATIONS	ROUTE LENGTH (FT)	DESCRIPTION
ALTERNATIVE 1	WILSHIRE/WESTERN TO WESTWOOD/UCLA EXTENSION	C-101 TO C-116 AND C1-117 TO C1-118	STA 0+00 ~ STA 454+00	N/A	45,400	EXTENDS FROM THE METRO PURPLE LINE WILSHIRE/WESTERN STATION TO THE WESTWOOD/UCLA STATION INCLUDES CROSSOVER STRUCTURE WEST OF STATION
ALTERNATIVE 2	WILSHIRE/WESTERN TO VA HOSPITAL CAMPUS EXTENSION	C-101 TO C-116 AND C2-117 TO C2-119	STA 0+00 ~ STA 473+26.326	N/A	47,326	EXTENDS FROM THE METRO PURPLE LINE WILSHIRE/WESTERN STATION TO THE WESTWOOD/VA HOSPITAL STATION AND ENDS WEST OF BONSALE AVE IN WESTWOOD
ALTERNATIVE 3	WILSHIRE/WESTERN TO SANTA MONICA EXTENSION	C-101 TO C-116 AND C4-117 TO C4-125	STA 0+00 ~ STA 653+83.97	N/A	65,384	EXTENDS FROM THE METRO PURPLE LINE WILSHIRE/WESTERN STATION TO 4TH ST AND WILSHIRE BLVD IN SANTA MONICA
ALTERNATIVE 4	WEST HOLLYWOOD EXTENSION AND WILSHIRE/WESTERN TO WESTWOOD/UCLA EXTENSION	C-201 TO C-211, AND C-101 TO C-116 C1-117 TO C1-118	STA 0+00 TO STA 269+38.66 * AND STA 0+00 TO STA 454+00	* STA 269+39.59 = STA 232+42.86	72,339	EXTENDS FROM THE METRO PURPLE LINE TO WESTWOOD/UCLA STATION AND ADDS A SECOND LINE EXTENDING FROM THE METRO RED LINE HOLLYWOOD/HIGHLAND STATION VIA SANTA MONICA BLVD TO JOIN THE WILSHIRE LINE IN BEVERLY HILLS
ALTERNATIVE 5	WEST HOLLYWOOD EXTENSION AND WILSHIRE/WESTERN TO SANTA MONICA EXTENSION	C-201 TO C-211, AND C-101 TO C-116 C3-117 TO C3-125	STA 0+00 TO STA 269+38.66 * AND STA 0+00 TO STA 653+83.97	* STA 269+39.59 = STA 232+42.86	92,323	INCLUDES THE FULL WILSHIRE BLVD SUBWAY AND ADDS A SECOND LINE EXTENDING WEST FROM THE METRO RED LINE HOLLYWOOD/HIGHLAND STATION VIA SANTA MONICA BLVD TO JOIN THE WILSHIRE LINE IN BEVERLY HILLS

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OPTION DEcriptions (CONTINUED)

CATEGORY	RANGE	SHEET NO.	STATIONING	STATIONING EQUATIONS	ROUTE LENGTH (FT)	DESCRIPTION
OPTION 1	REMOVE WILSHIE/ CRENSHAW STATION	C-701 A	STA 11+00 ~ STA 38+00	-	2,700	REMOVE WILSHIRE/CRENSHAW STATION
OPTION 3	WILSHIRE/LA CIENEGA - WEST WITH TRANSFER STATION	C-701 C TO C-705 C	STA 226+00 ~ STA C1 218+73 STA 173+00 ~ TO STA 254+93	STA C1 210+00 = STA 264+76.17 STA C1 255+00 = STA 254+93	12,942	WEST HOLLYWOOD TO WILSHIRE/LA CIENEGA WITH TRANSFER
OPTION 4 SEGMENT G	WILSHIRE/RODEO TO CONSTELLATION	C-701 G TO C-703 G	STA 280+00 ~ STA 339+25	-	5,925	CENTURY CITY STATION ALONG CONSTELLATION
OPTION 4 SEGMENT H	WILSHIRE/RODEO TO CONSTELLATION VIA LASKY	C-701 H TO C-703 H	STA 280+00 ~ STA 343+70	-	6370	CENTURY CITY STATION ALONG CONSTELLATION VIA LASKY
OPTION 4 SEGMENT K	SANTA MONICA TO WESTWOOD/UCLA ON STREET	C-701 K TO C-704 K	STA 343+00 ~ STA 452+71	STA 454+00 = STA 452+70.909	10,971	SANTA MONICA TO WESTWOOD ON STREET
OPTION 4 SEGMENT L	SANTA MONICA TO WESTWOOD/UCLA OFF STREET	C-701 L TO C-705 L	STA 343+00 ~ STA 458+12	STA 454+00 = STA 458+12.091	11,512	SANTA MONICA TO WESTWOOD OFF-STREET VIA CROSS COUNTRY
OPTION 4 SEGMENT M	SANTA MONICA TO WESTWOOD/UCLA ON STREET	C-701 M TO C-705 M	STA 343+00 ~ STA 455+54	STA 454+00 = STA 455+54.360	11,254	SANTA MONICA TO WESTWOOD ON-STREET VIA CROSS COUNTRY
OPTION 4 SEGMENT N	SANTA MONICA TO WESTWOOD/UCLA OFF STREET	C-701 N TO C-706 N	STA 343+00 ~ STA 491+19	STA 454+00 = STA 491+19.296	14,819	SANTA MONICA TO WESTWOOD OFF-STREET VIA WESTWOOD LOOP
OPTION 4 SEGMENT O	SANTA MONICA TO WESTWOOD/UCLA ON STREET	C-701 O TO C-706 O	STA 343+00 ~ STA 488+95	STA 454+00 = STA 488+95.048	14,595	SANTA MONICA TO WESTWOOD ON-STREET VIA WESTWOOD LOOP
OPTION 4 SEGMENT P	CONSTELLATION TO WESTWOOD/UCLA OFF STREET	C-701 P TO C-705 P	STA 339+25 ~ STA 458+66	STA 454+00 = STA 458+66.522	11,942	CONSTELLATION TO WESTWOOD OFF-STREET VIA WESTFIELD
OPTION 4 SEGMENT Q	CONSTELLATION TO WESTWOOD/UCLA ON STREET	C-701 Q TO C-705 Q	STA 339+25 ~ STA 457+37	STA 454+00 = STA 457+37.432	11,812	CONSTELLATION TO WESTWOOD ON-STREET VIA WESTFIELD
OPTION 4 SEGMENT R	CONSTELLATION TO WESTWOOD/UCLA OFF STREET	C-701 R TO C-705 R	STA 339+25 ~ STA 460+73	STA 454+00 = STA 460+73.136	12,148	CONSTELLATION TO WESTWOOD OFF-STREET VIA CROSS COUNTRY
OPTION 4 SEGMENT S	CONSTELLATION TO WESTWOOD/UCLA ON STREET	C-701 S TO C-705 S	STA 339+25 ~ STA 458+15	STA 454+00 = STA 458+15.555	11,891	CONSTELLATION TO WESTWOOD ON-STREET VIA CROSS COUNTRY
OPTION 4 SEGMENT T	CONSTELLATION TO WESTWOOD/UCLA OFF STREET	C-701 T TO C-706 T	STA 339+25 ~ STA 491+68	STA 454+00 = STA 491+68.575	15,244	CONSTELLATION TO WESTWOOD OFF-STREET VIA WESTWOOD LOOP
OPTION 4 SEGMENT U	CONSTELLATION TO WESTWOOD/UCLA ON STREET	C-701 U TO C-706 U	STA 339+25 ~ STA 489+56	STA 454+00 = STA 489+56.418	15,031	CONSTELLATION TO WESTWOOD ON-STREET VIA WESTWOOD LOOP
OPTION 6	VA HOSPITAL - NORTH OF WILSHIRE	C-701 F TO C-703 F	STA 433+35 ~ STA 488+49.38	-	5,514	VA HOSPITAL STATION NORTH OF WILSHIRE
SPECIAL TRACKWORK OPTION	WILSHIRE/FAIRFAX STATION WILSHIRE/LA CIENEGA STATION WILSHIRE/BEVERLY STATION SANTA MONICA/26TH STATION	C-701 R TO C-704 R	-	N/A	N/A	SPECIAL TRACKWORK OPTIONS

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