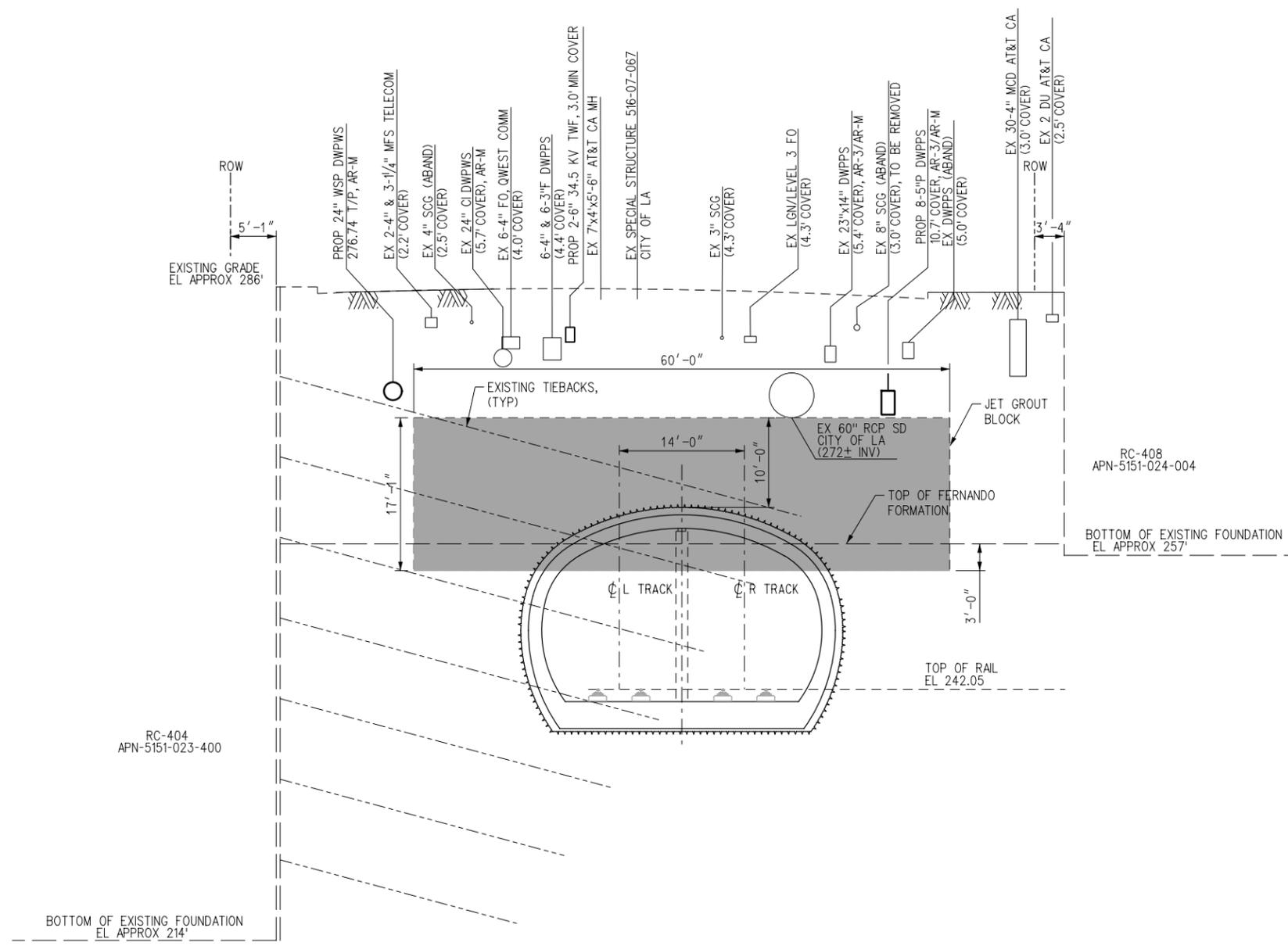


APPENDIX F
ENGINEERING DRAWINGS

Alternative A



SECTION @ STA R 7+50



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/27/2013

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

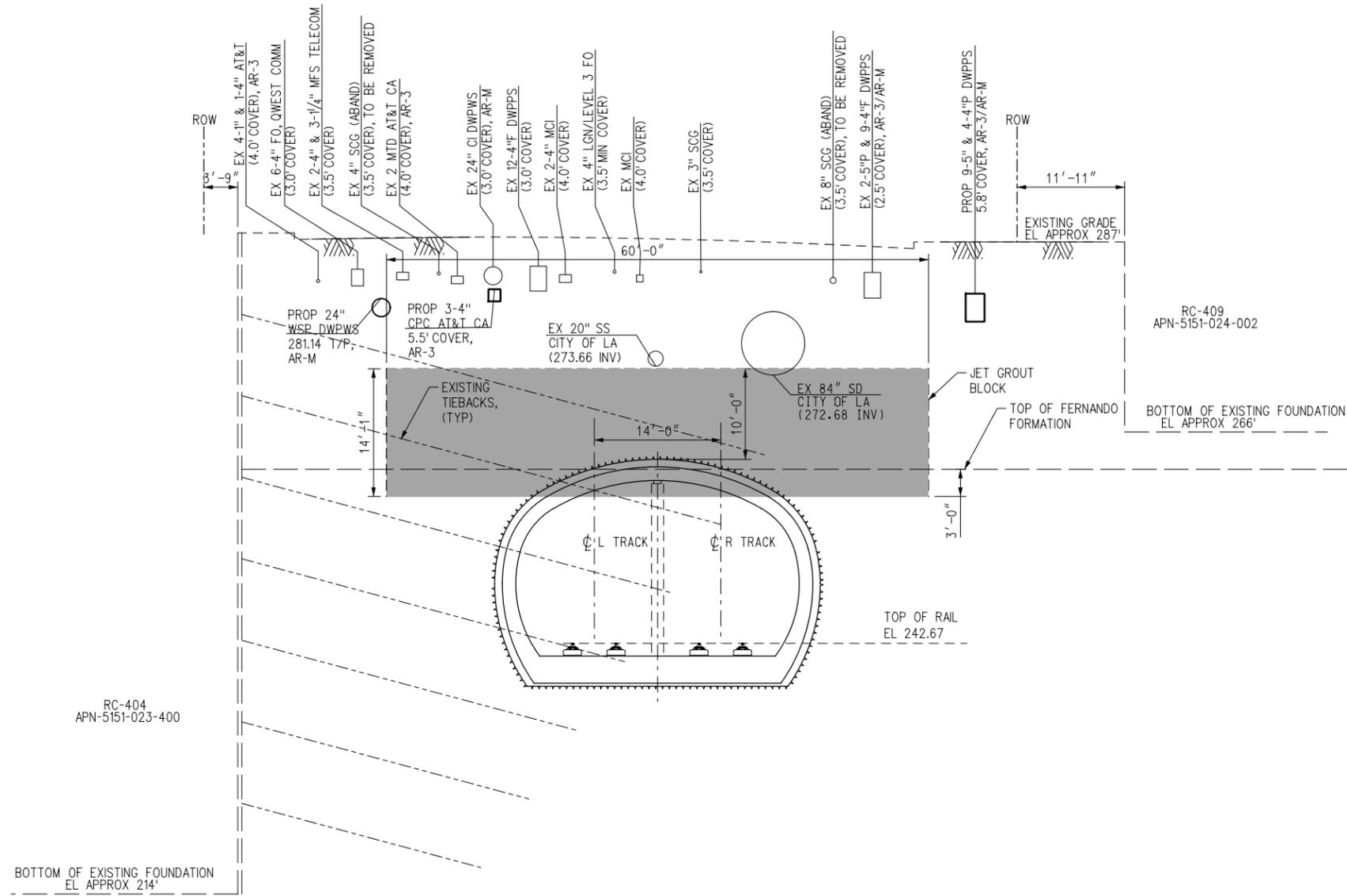
The Connector Partnership

777 S. FIGUEROA STREET
10TH FLOOR
LOS ANGELES, CA 90017
T 213-312-3100
F 213-312-3114

REGIONAL CONNECTOR TRANSIT CORRIDOR
FLOWER STREET
RE EVALUATION
OPTION 4
SECTION AT STATION R 7+50

CONTRACT NO	C0980
DRAWING NO	AS-401
SCALE	1" = 8'
SHEET NO	

USER=Al_Mashtani 10/28/2013 8/27/2013 ... \Design\JostinG\C0980AS401.pig Plot Driver= MTA_HALF-BW_PDF.plt;g Pentable= MTA_HALF.tbl



SECTION @ STA R 9+05



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.							
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	



Metro

The Connector Partnership

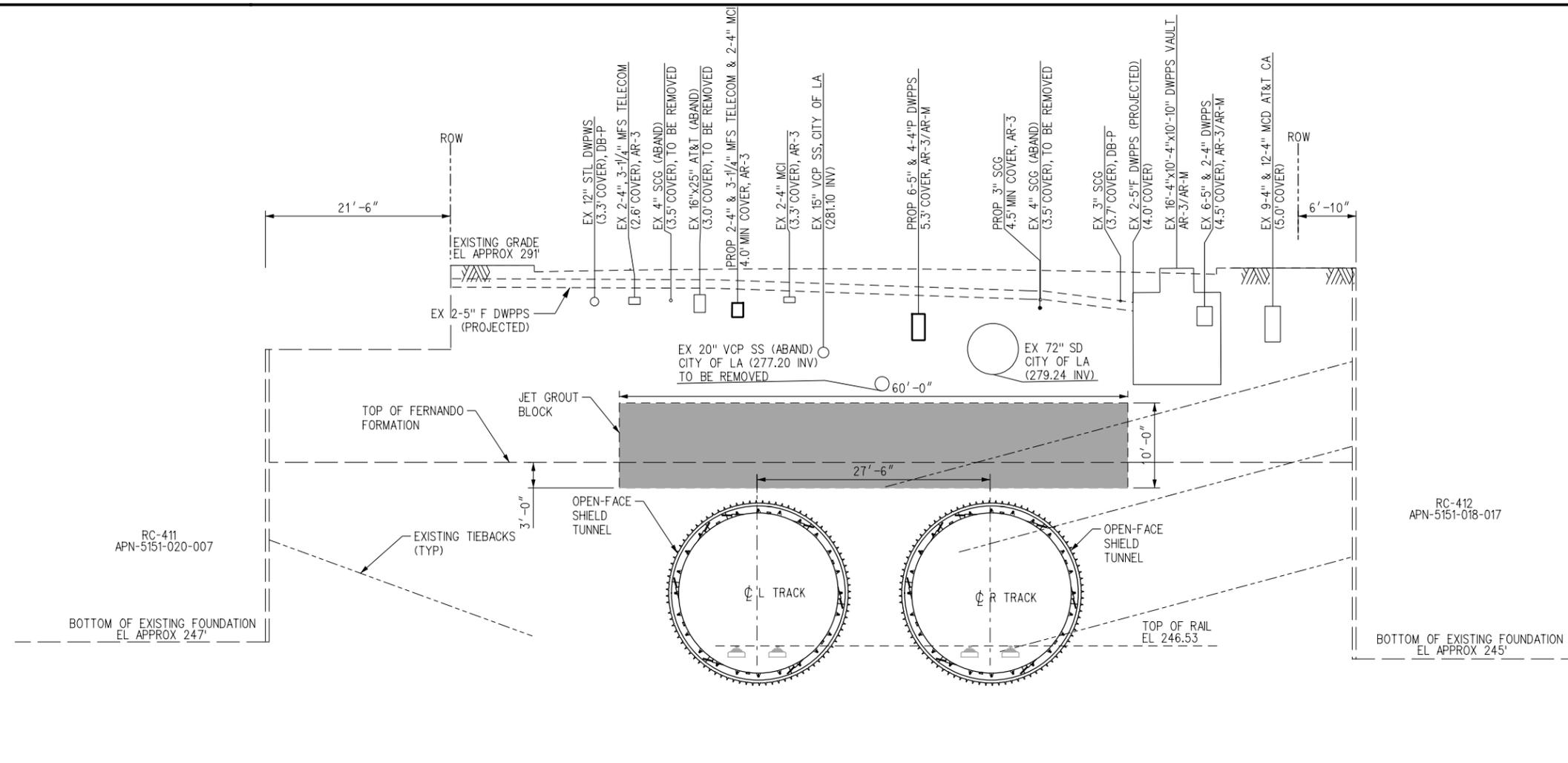
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

777 S. FIGUEROA STREET
10TH FLOOR
LOS ANGELES, CA 90017
T 213-312-3100
F 213-312-3114

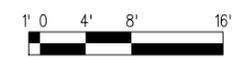
REGIONAL CONNECTOR TRANSIT CORRIDOR
FLOWER STREET
RE EVALUATION
OPTION 4
SECTION AT STATION 9+05

CONTRACT NO	C0980
DRAWING NO	AS-402
SCALE	1" = 8'
SHEET NO	

USER=Al-Mashtani
 8/27/2013 10:35:26 AM
 Plot Driver= M:\HALF-BW-PDF.plt
 Pentable= M:\HALF-BW.plt



SECTION @ STA R 14+96



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/23/2013



LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

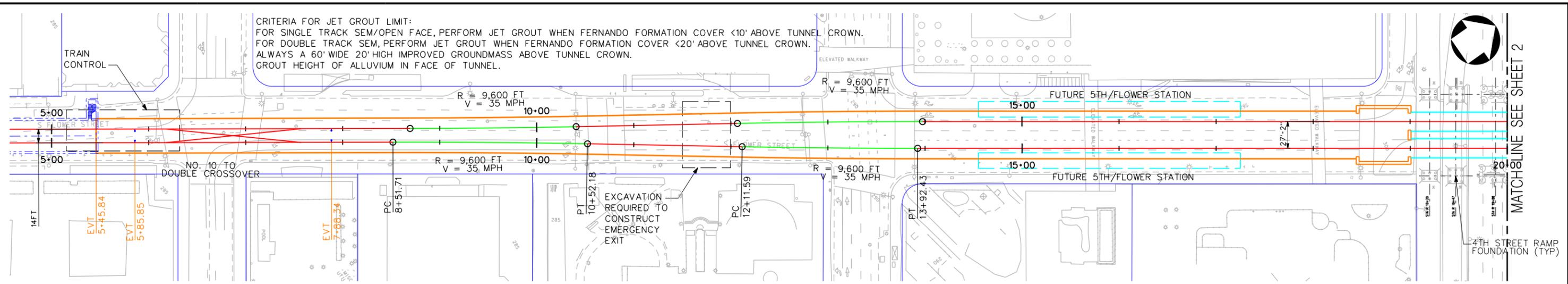
The Connector Partnership

777 S. FIGUEROA STREET
10TH FLOOR
LOS ANGELES, CA 90017
T 213-312-3100
F 213-312-3114

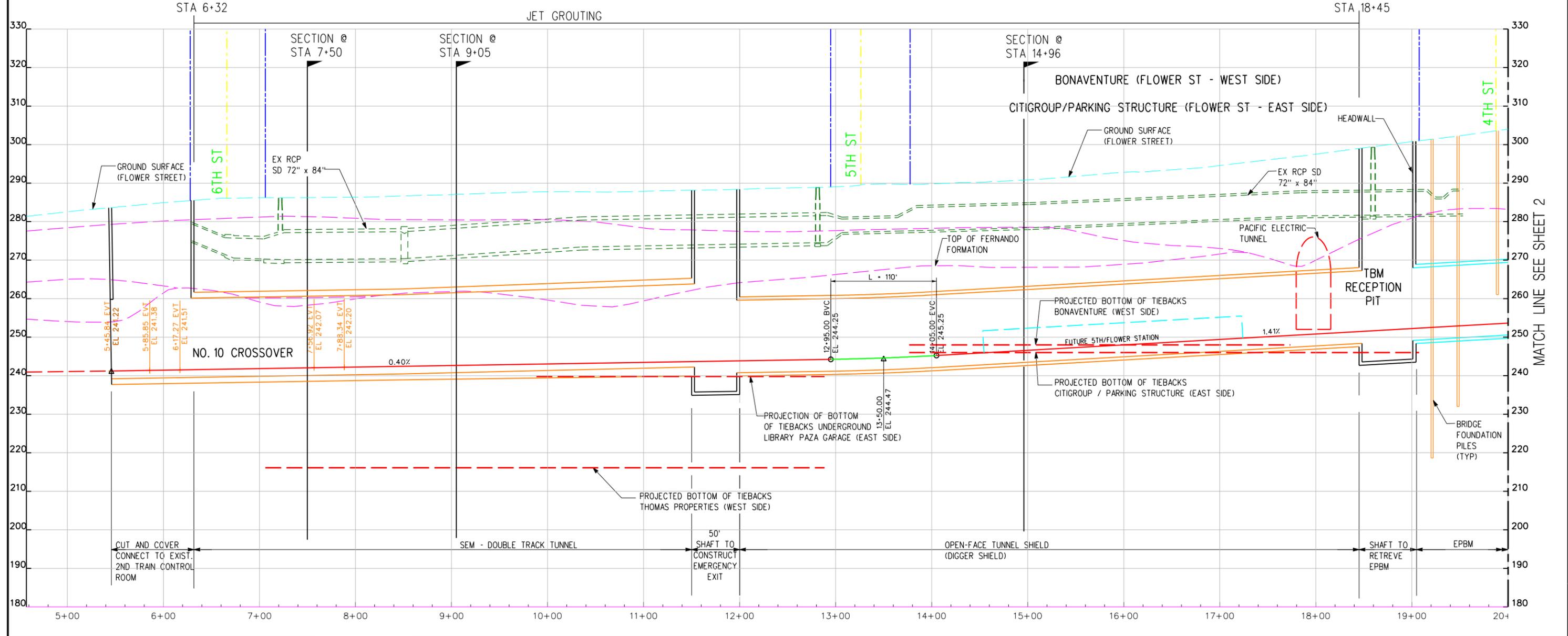
REGIONAL CONNECTOR TRANSIT CORRIDOR
FLOWER STREET
RE EVALUATION
OPTION 4
SECTION AT STATION 14+96

CONTRACT NO	C0980
DRAWING NO	AS-403
SCALE	1" = 8'
SHEET NO	

USER=al-mashtani 10/16/05 AM 8/27/2013 ...\\Design\joshg\C0980AS403.ppt Plot Driver= MTA_HALF_BW_PDF.plt Pentable= MTA_HALF_BW.plt



CRITERIA FOR JET GROUT LIMIT:
 FOR SINGLE TRACK SEM/OPEN FACE, PERFORM JET GROUT WHEN FERNANDO FORMATION COVER <10' ABOVE TUNNEL CROWN.
 FOR DOUBLE TRACK SEM, PERFORM JET GROUT WHEN FERNANDO FORMATION COVER <20' ABOVE TUNNEL CROWN.
 ALWAYS A 60' WIDE 20' HIGH IMPROVED GROUNDMASS ABOVE TUNNEL CROWN.
 GROUT HEIGHT OF ALLUVIUM IN FACE OF TUNNEL.



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/23/2013

M Metro LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

777 S. FIGUEROA STREET
 10TH FLOOR
 LOS ANGELES, CA 90017
 T 213-312-3100
 F 213-312-3114

REGIONAL CONNECTOR TRANSIT CORRIDOR
 FLOWER STREET
 RE EVALUATION
 OPTION 4
 OPEN FACE TBM/SEM ALTERNATIVE

CONTRACT NO.

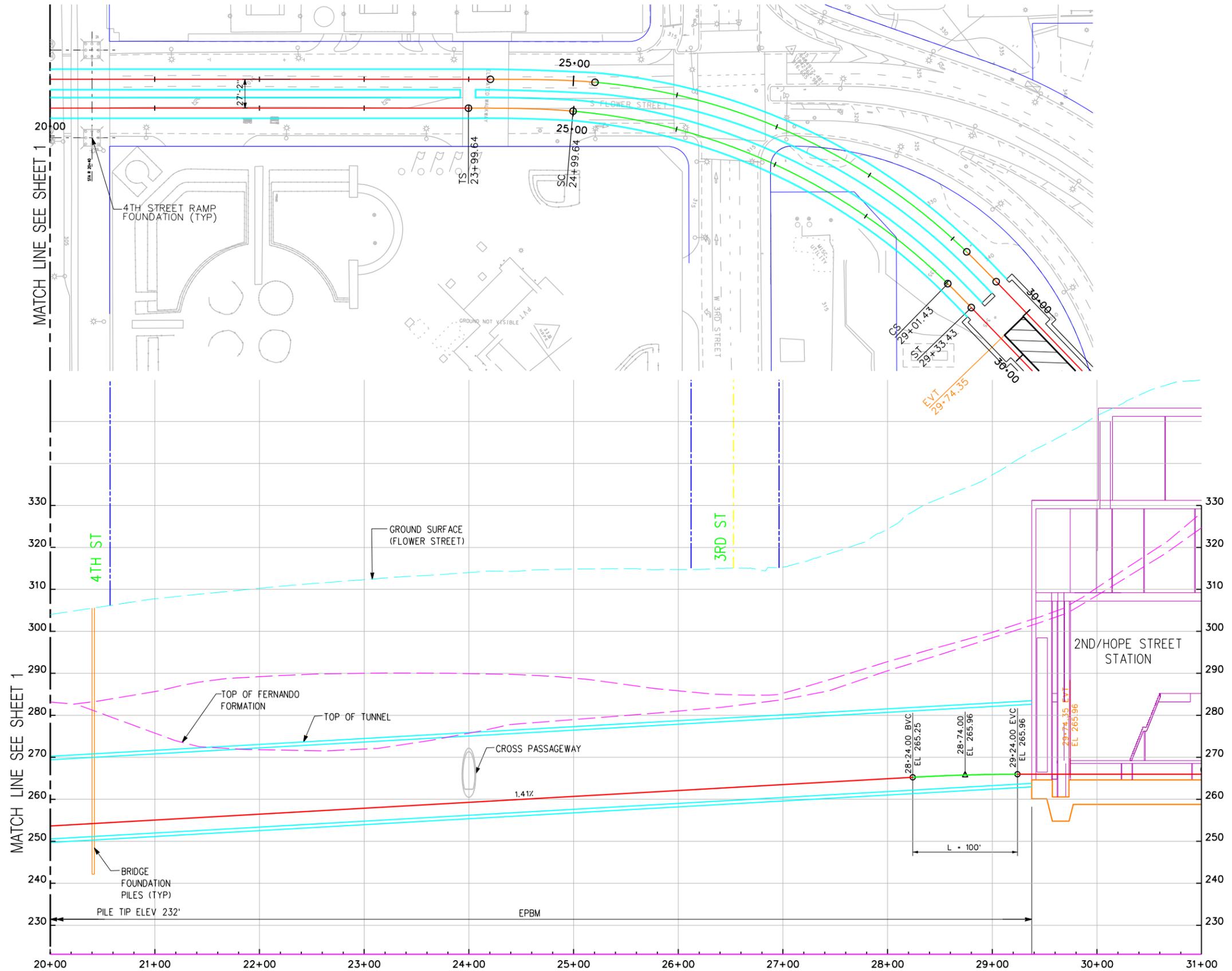
DRAWING NO.

SCALE

SHEET NO. 1 OF 2

ModelName= Opt4 Sht1

8/23/2013 4:30:44 PM USER=AlMashtani ...\\Reevaluation\Open Face SEM.dgn Plot Driver= MTA_HALF_Color_PDF.plt/g Pentable=MTA_HALF_Color.tbl



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/23/2013


LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

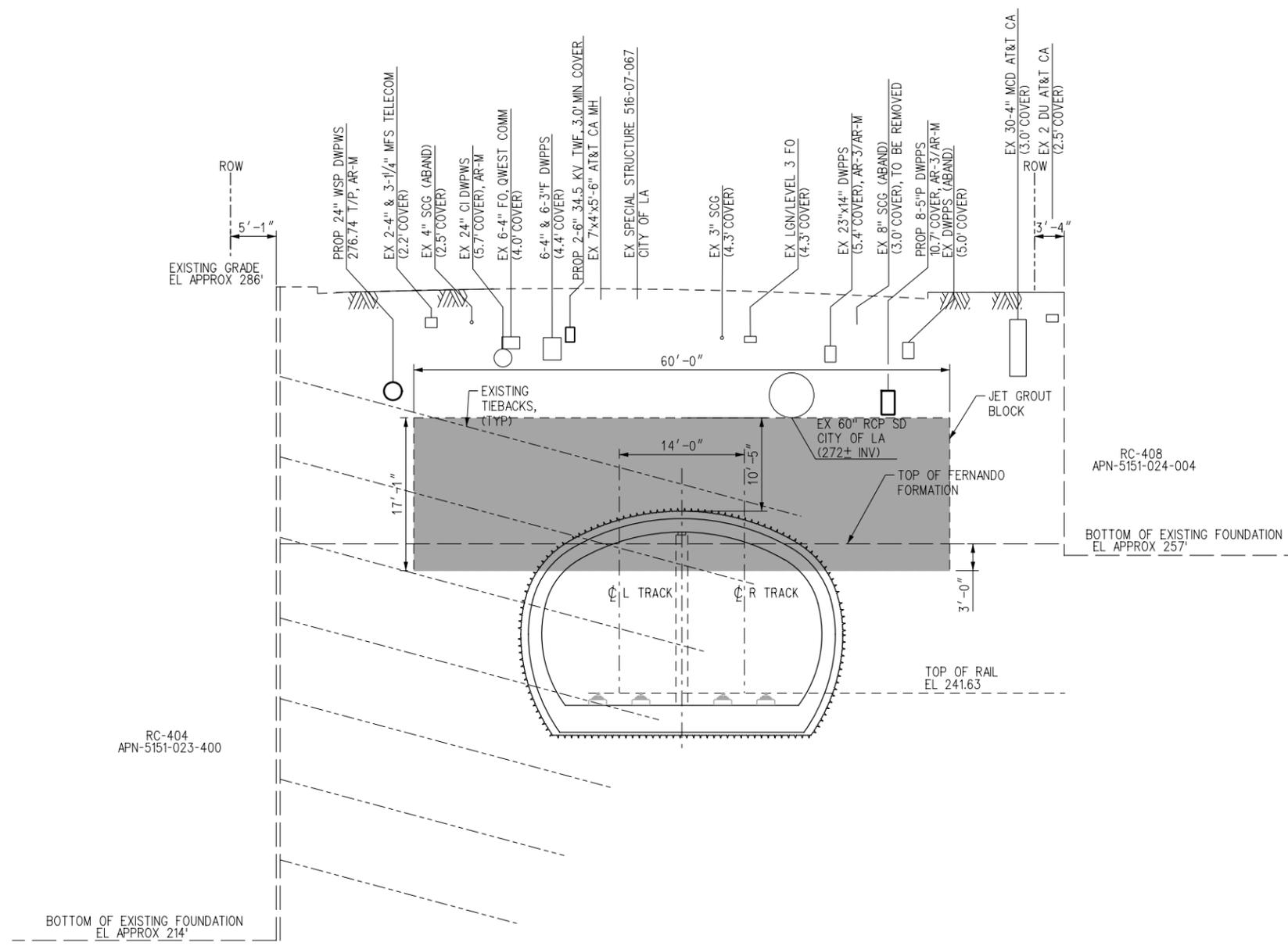
777 S. FIGUEROA STREET
 10TH FLOOR
 LOS ANGELES, CA 90017
 T 213-312-3100
 F 213-312-3114

REGIONAL CONNECTOR TRANSIT CORRIDOR
FLOWER STREET
RE EVALUATION
OPTION 4
OPEN FACE TBM/SEM ALTERNATIVE

CONTRACT NO	
DRAWING NO	
SCALE	
SHEET NO	2 OF 2

USER=al-mashtani 12/11/14 PM 8/23/2013 ...\\Reevaluation\Open Face SEM.dgn Plot Driver=MTAL_HALF_Color_PDF.plt cto Penable=MTAL_HALF_Color.tbl

Alternative B



SECTION @ STA R 7+50



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/23/2013



Metro

The Connector Partnership



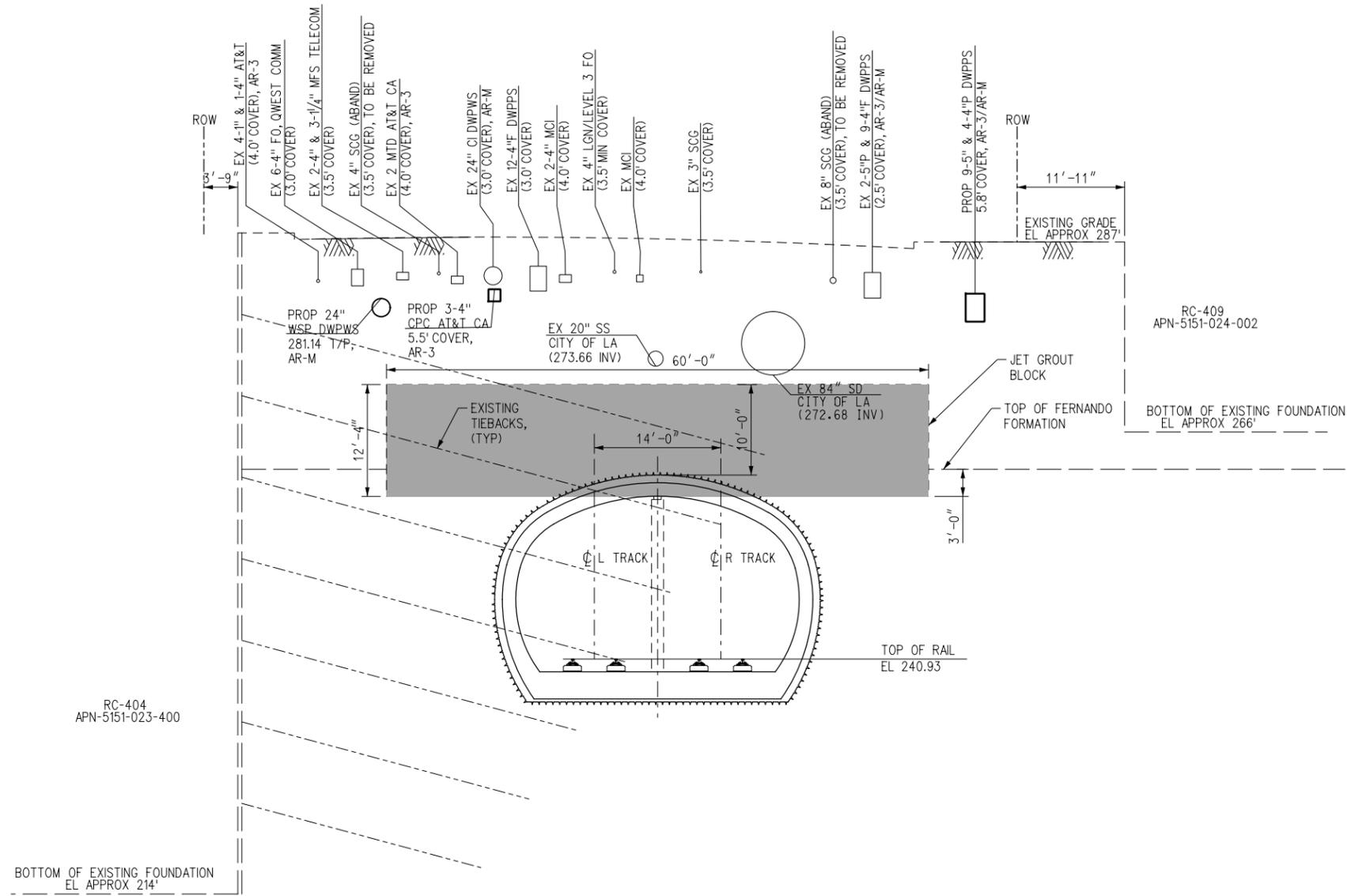
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

777 S. FIGUEROA STREET
10TH FLOOR
LOS ANGELES, CA 90017
T 213-312-3100
F 213-312-3114

REGIONAL CONNECTOR TRANSIT CORRIDOR
FLOWER STREET
RE EVALUATION
OPTION 5
SECTION AT STATION 7+50

CONTRACT NO	C0980
DRAWING NO	AS-501
SCALE	1" = 8'
SHEET NO	

USER=Al-Mashtani 10/26/30 AM 8/27/2013 ...\\Design\JostinG\C0980AS501.plt Plot Driver=MTA_HALF-BW_PDF.plt Pentable=MTA_HALF.tbl



SECTION @ STA R 9+05



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/23/2013

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

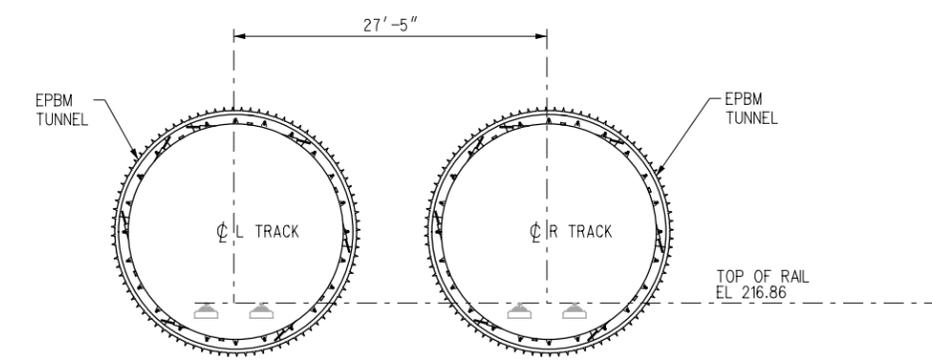
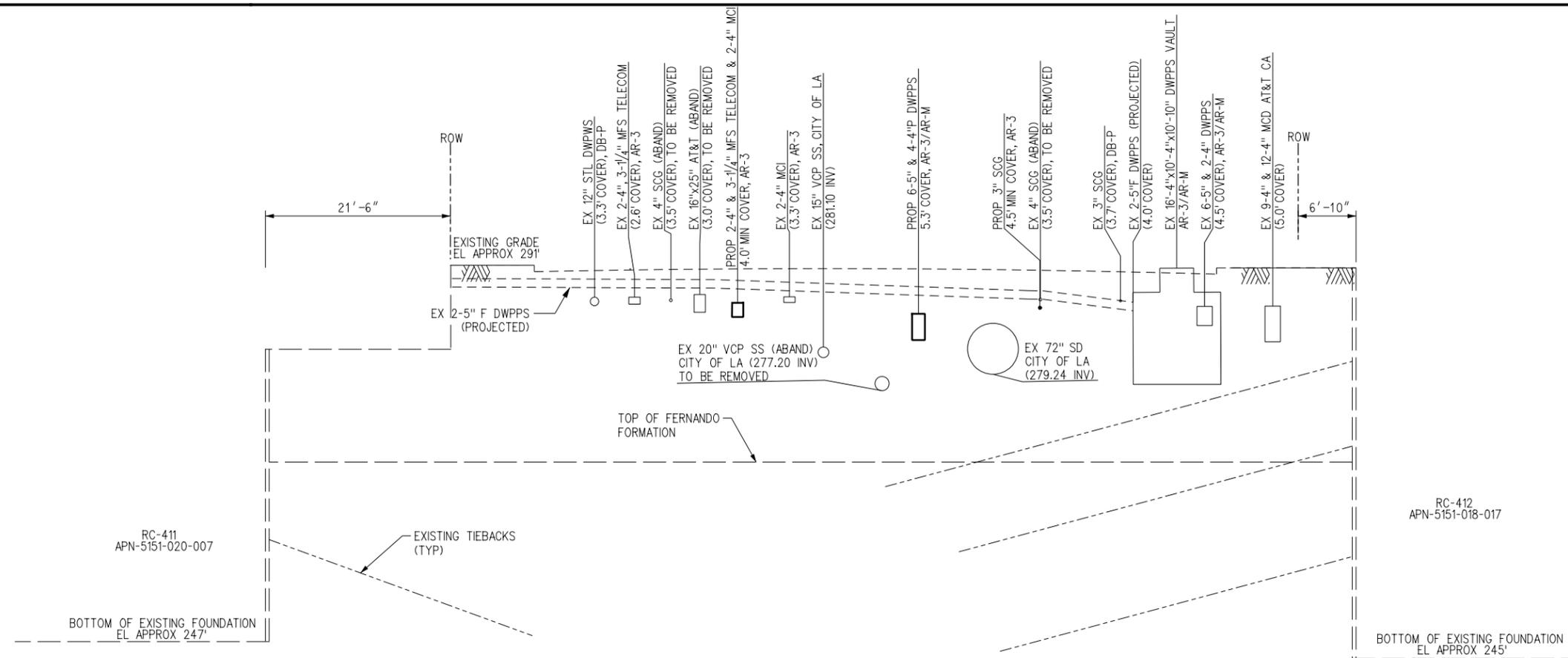
The Connector Partnership

777 S. FIGUEROA STREET
10TH FLOOR
LOS ANGELES, CA 90017
T 213-312-3100
F 213-312-3114

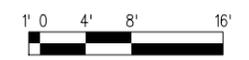
REGIONAL CONNECTOR TRANSIT CORRIDOR
FLOWER STREET
RE EVALUATION
OPTION 5
SECTION AT STATION 9+05

CONTRACT NO	C0980
DRAWING NO	AS-502
SCALE	1" = 8'
SHEET NO	

USER=Al-Mashtami 10/3/2013 8/27/2013 Plot Driver= M:\HALF-BW-PDF.plt;g Pentable= M:\HALF-BW.plt



SECTION @ STA R 14+96



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/23/2013



LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

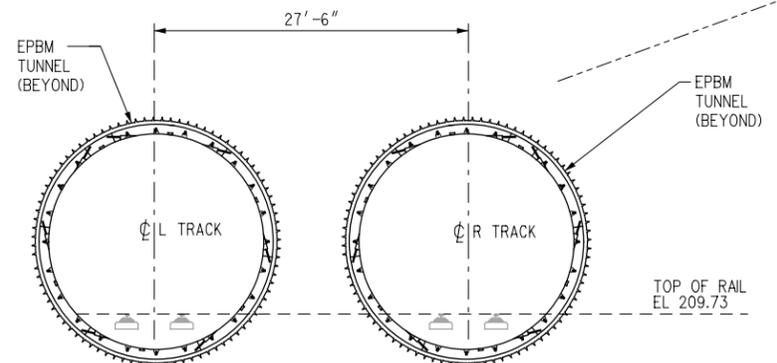
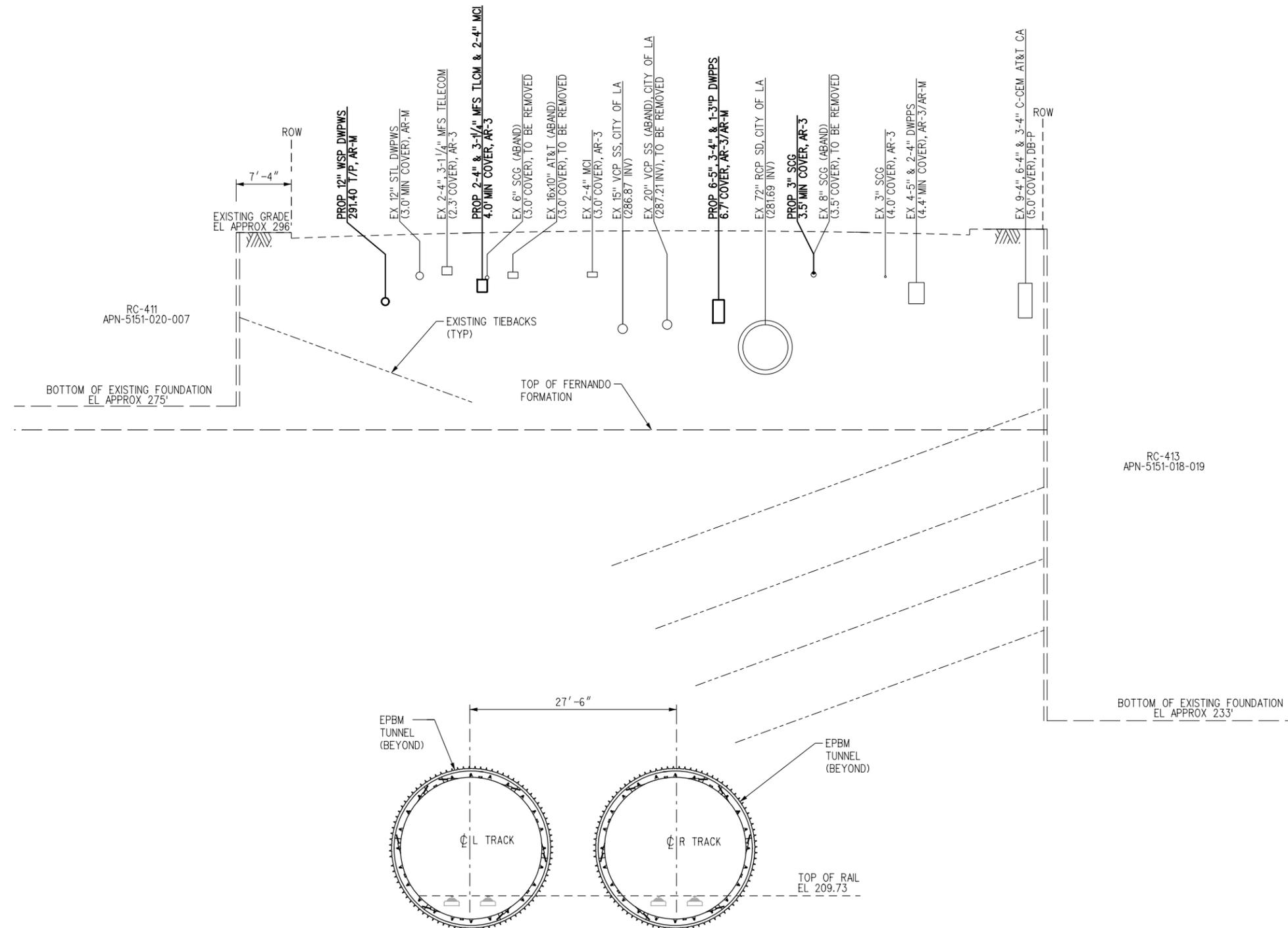
The Connector Partnership

777 S. FIGUEROA STREET
10TH FLOOR
LOS ANGELES, CA 90017
T 213-312-3100
F 213-312-3114

REGIONAL CONNECTOR TRANSIT CORRIDOR
FLOWER STREET
RE EVALUATION
OPTION 5
SECTION AT STATION 14+96

CONTRACT NO	C0980
DRAWING NO	AS-503
SCALE	1" = 8'
SHEET NO	

10/18/16 AM USER=al-mashtani
 ...\\Design\joshg\C0980AS503.plt
 Plot Driver= MFL_HALF_BW_PDF.plt
 Pentable= MFL_HALF_BW.plt



SECTION @ STA R 17+00



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	



Metro

The Connector Partnership



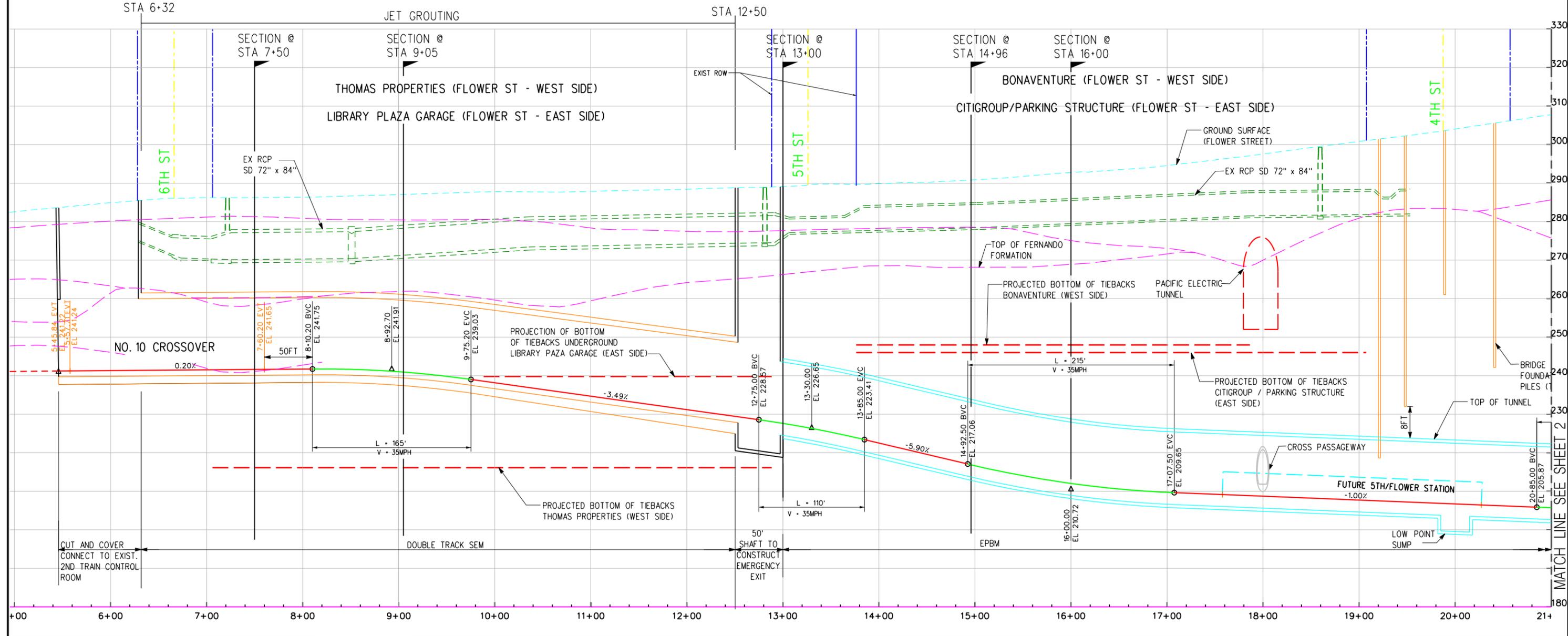
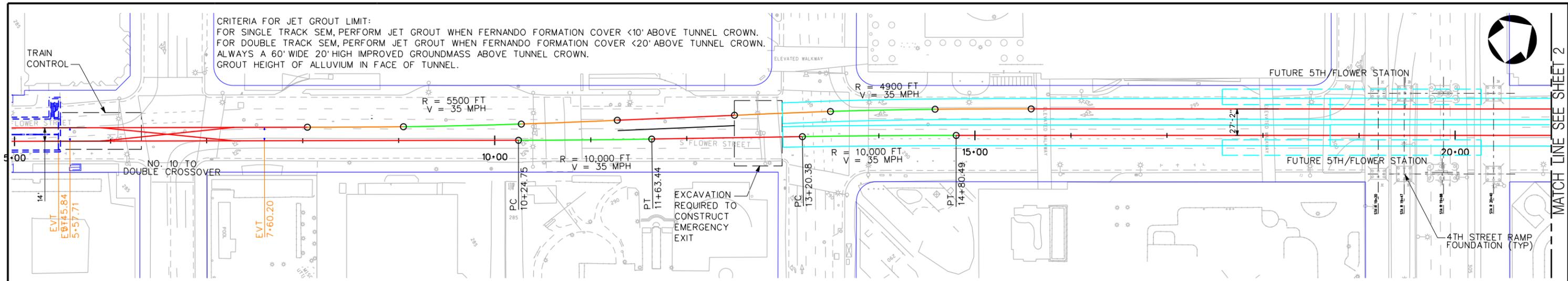
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

777 S. FIGUEROA STREET
10TH FLOOR
LOS ANGELES, CA 90017
T 213-312-3100
F 213-312-3114

**REGIONAL CONNECTOR TRANSIT CORRIDOR
FLOWER STREET
RE EVALUATION
OPTION 5
SECTION AT STA 17+00**

CONTRACT NO	C0980
DRAWING NO	AS-505
SCALE	1" = 8'
SHEET NO	-

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/23/2013

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

777 S. FIGUEROA STREET
 10TH FLOOR
 LOS ANGELES, CA 90017
 T 213-312-3100
 F 213-312-3114

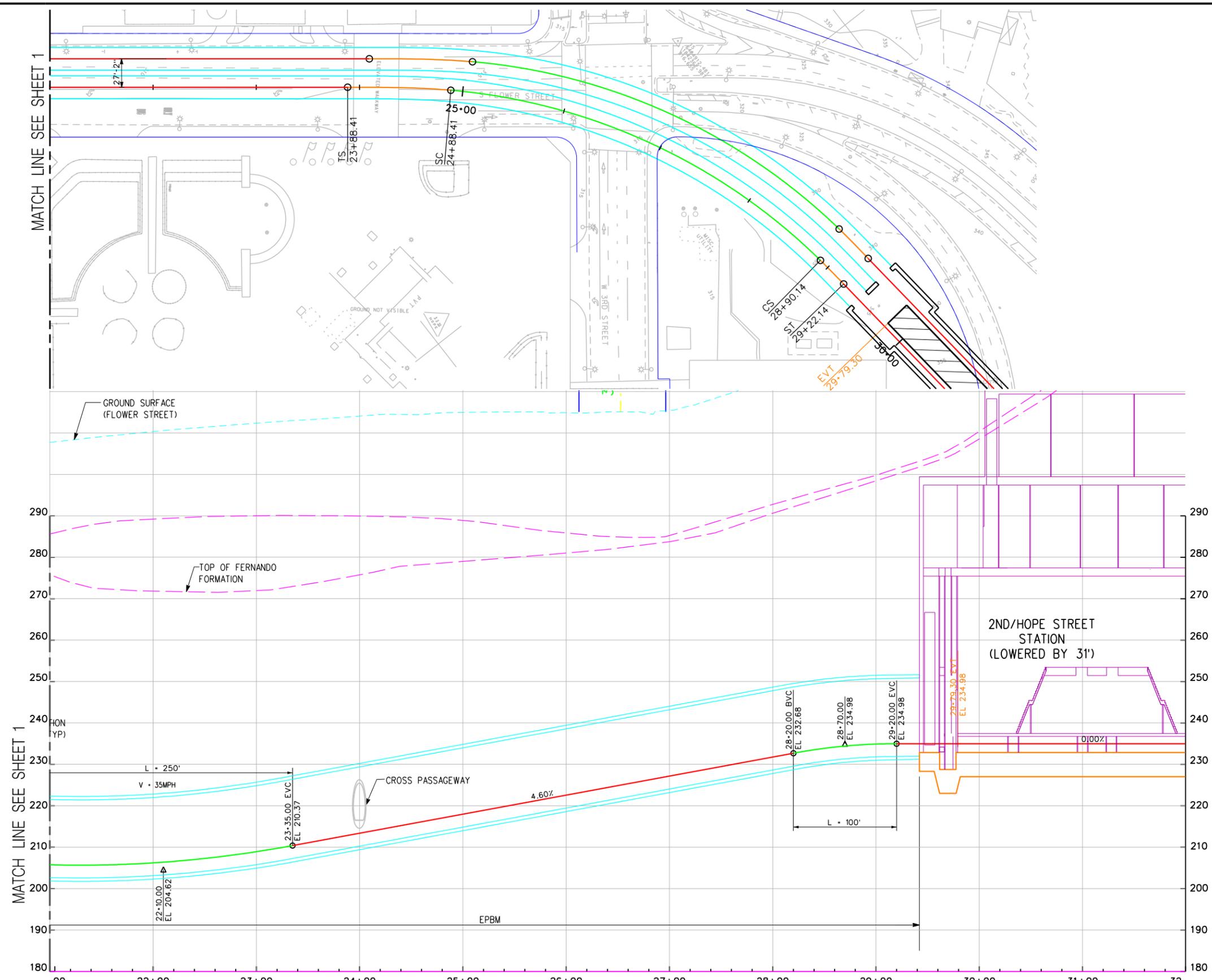
**REGIONAL CONNECTOR TRANSIT CORRIDOR
 FLOWER STREET
 RE EVALUATION
 OPTION 5
 SEM LOW ALIGNMENT ALTERNATIVE**

CONTRACT NO	
DRAWING NO	REV
SCALE	
SHEET NO	1 OF 2

ModelName= Opt15 Sht1

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

MATCH LINE SEE SHEET 2
 MATCH LINE SEE SHEET 2
 MATCH LINE SEE SHEET 2
 Plot Driver= MTA_HALF_Color_Plotter
 ...\\Reevaluation\SEM_Low_Align.dgn
 8/23/2013 5:04:25 PM
 USER=AlMashtani



MATCH LINE SEE SHEET 1

MATCH LINE SEE SHEET 1

-00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00 31+00 32-

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/22/2013


LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

777 S. FIGUEROA STREET
 10TH FLOOR
 LOS ANGELES, CA 90017
 T 213-312-3100
 F 213-312-3114

REGIONAL CONNECTOR TRANSIT CORRIDOR
FLOWER STREET
RE EVALUATION
OPTION 5
SEM LOW ALIGNMENT ALTERNATIVE

CONTRACT NO	
DRAWING NO	
SCALE	
SHEET NO	2 OF 2

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

USER: Al-Mashtani 11/5/2017 AM 8/23/2013 ...\\Reevaluation\SEM Low Align.dgn Plot Driver: MTA_HALF_Color_PDF.plt19 Pentable: MTA_FL_Color.tbl