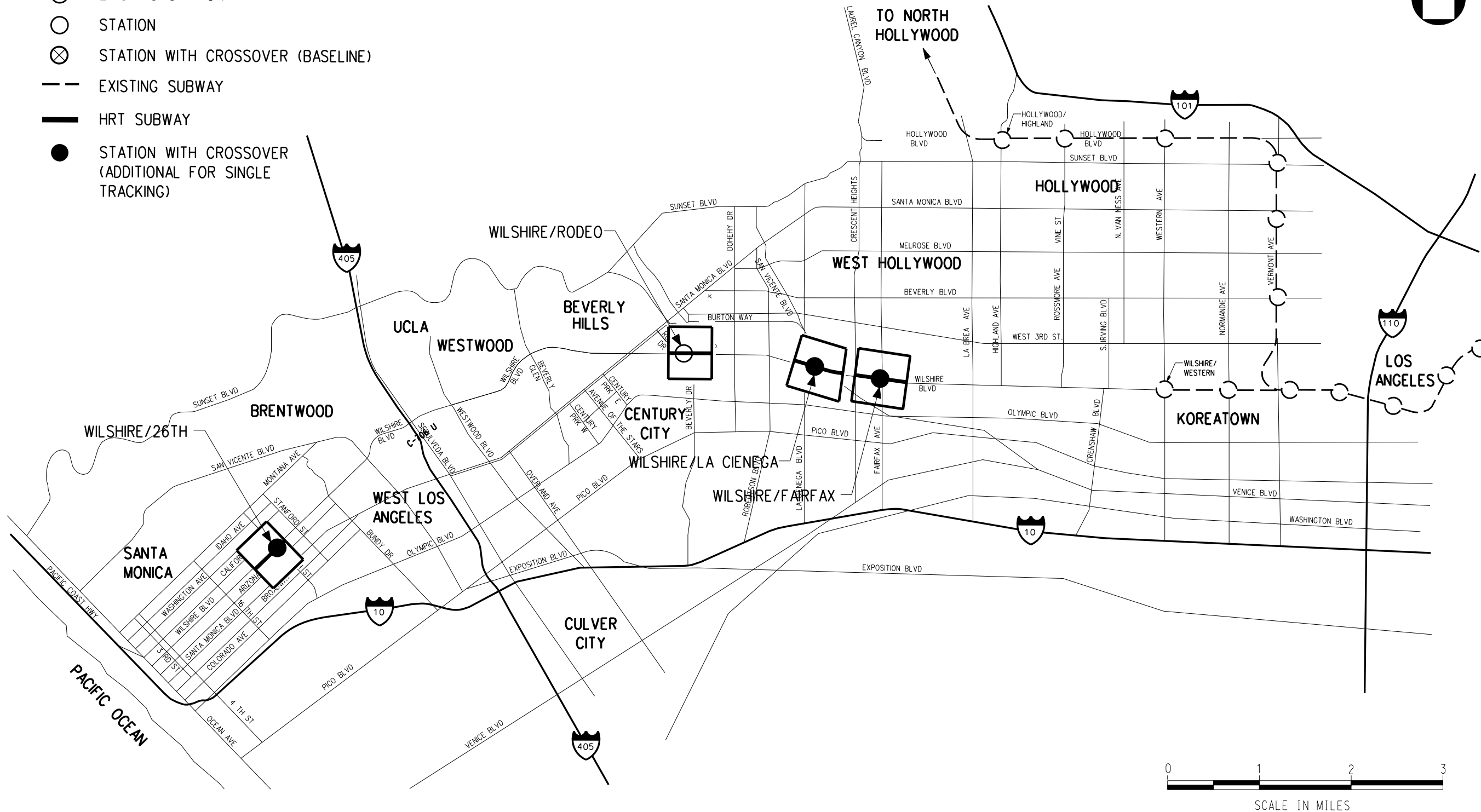


**LEGEND**

- EXISTING STATION
- STATION
- ⊗ STATION WITH CROSSOVER (BASELINE)
- - - EXISTING SUBWAY
- HRT SUBWAY
- STATION WITH CROSSOVER (ADDITIONAL FOR SINGLE TRACKING)



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

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	JULY 2010



**Metro**

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

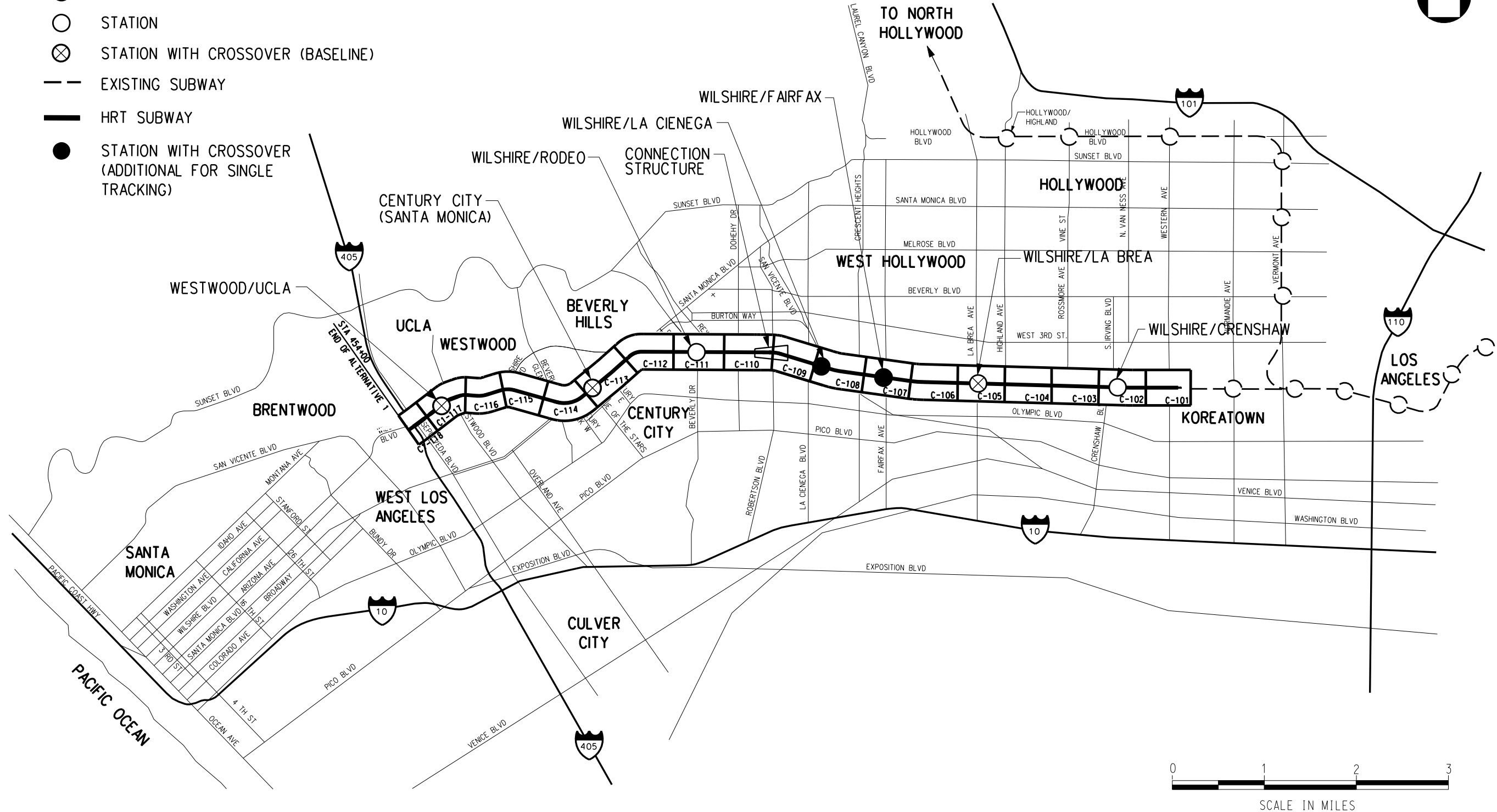
PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING  
SPECIAL TRACKWORK OPTION  
FAIRFAX, LA CIENEGA, RODEO & 26TH

CONTRACT NO	
DRAWING NO	C-700 V
SCALE	
SHEET NO	

**LEGEND**

- EXISTING STATION
- STATION
- ⊗ STATION WITH CROSSOVER (BASELINE)
- - - EXISTING SUBWAY
- HRT SUBWAY
- STATION WITH CROSSOVER (ADDITIONAL FOR SINGLE TRACKING)



SPECIAL TRACKWORK OPTION: ADDITIONAL CROSSOVERS (WILSHIRE/FAIRFAX, WILSHIRE/LA CIENEGA, WILSHIRE/RODEO, & WILSHIRE/26TH) - ALTERNATIVE 1

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	JULY 2010



**Metro**

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

PROJECT MANAGER \_\_\_\_\_

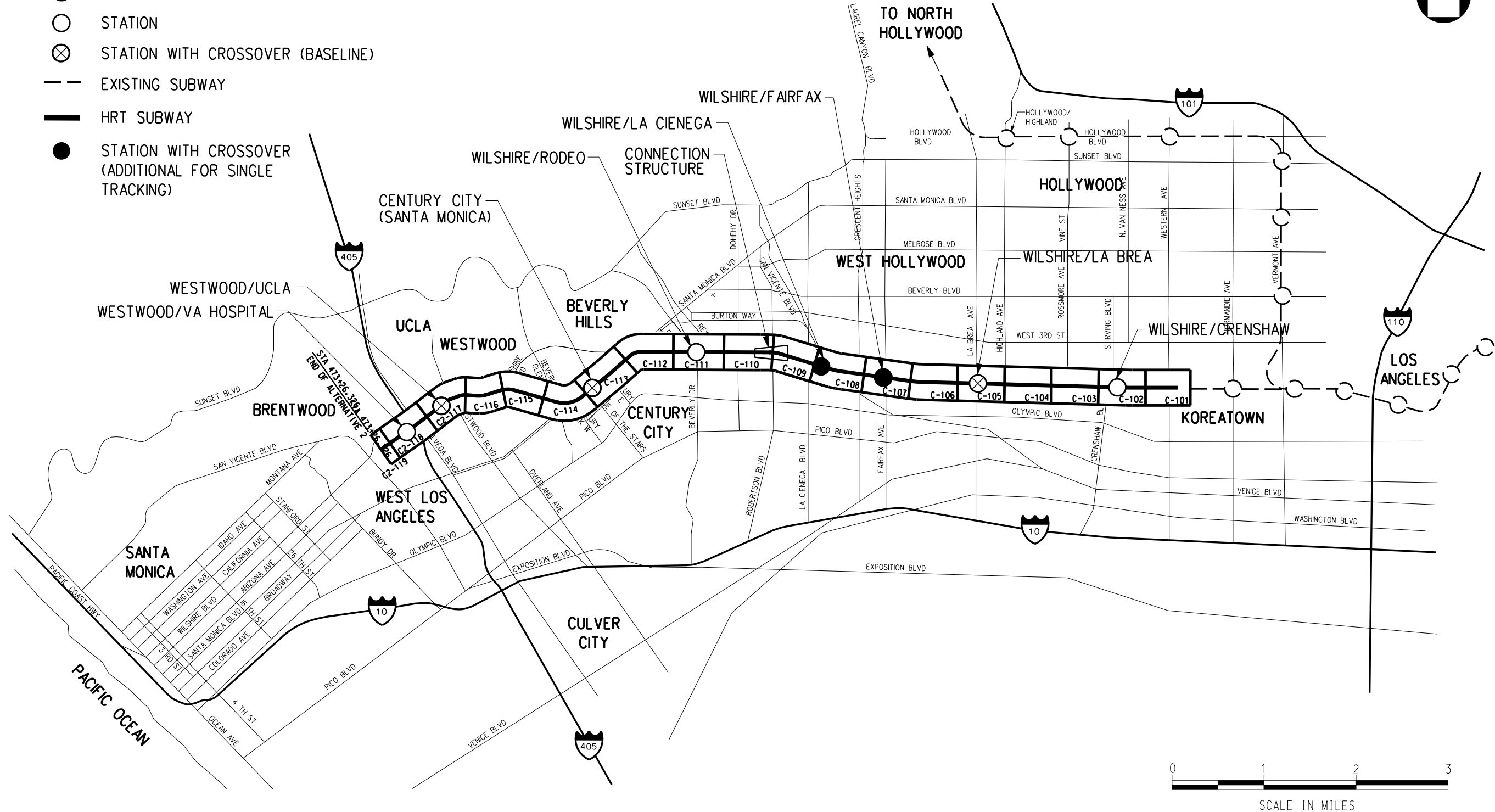
WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING

SPECIAL TRACKWORK OPTION  
KEY MAP WITH  
CROSSOVER LOCATIONS

CONTRACT NO	
DRAWING NO	C1-100 V
SCALE	
SHEET NO	

**LEGEND**

- EXISTING STATION
- STATION
- ⊗ STATION WITH CROSSOVER (BASELINE)
- - - EXISTING SUBWAY
- HRT SUBWAY
- STATION WITH CROSSOVER (ADDITIONAL FOR SINGLE TRACKING)



SPECIAL TRACKWORK OPTION: ADDITIONAL CROSSOVERS (WILSHIRE/FAIRFAX, WILSHIRE/LA CIENEGA, WILSHIRE/RODEO, & WILSHIRE/26TH) - ALTERNATIVE 2

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	JULY 2010



**Metro**

**LOS ANGELES COUNTY  
METROPOLITAN TRANSPORTATION AUTHORITY**

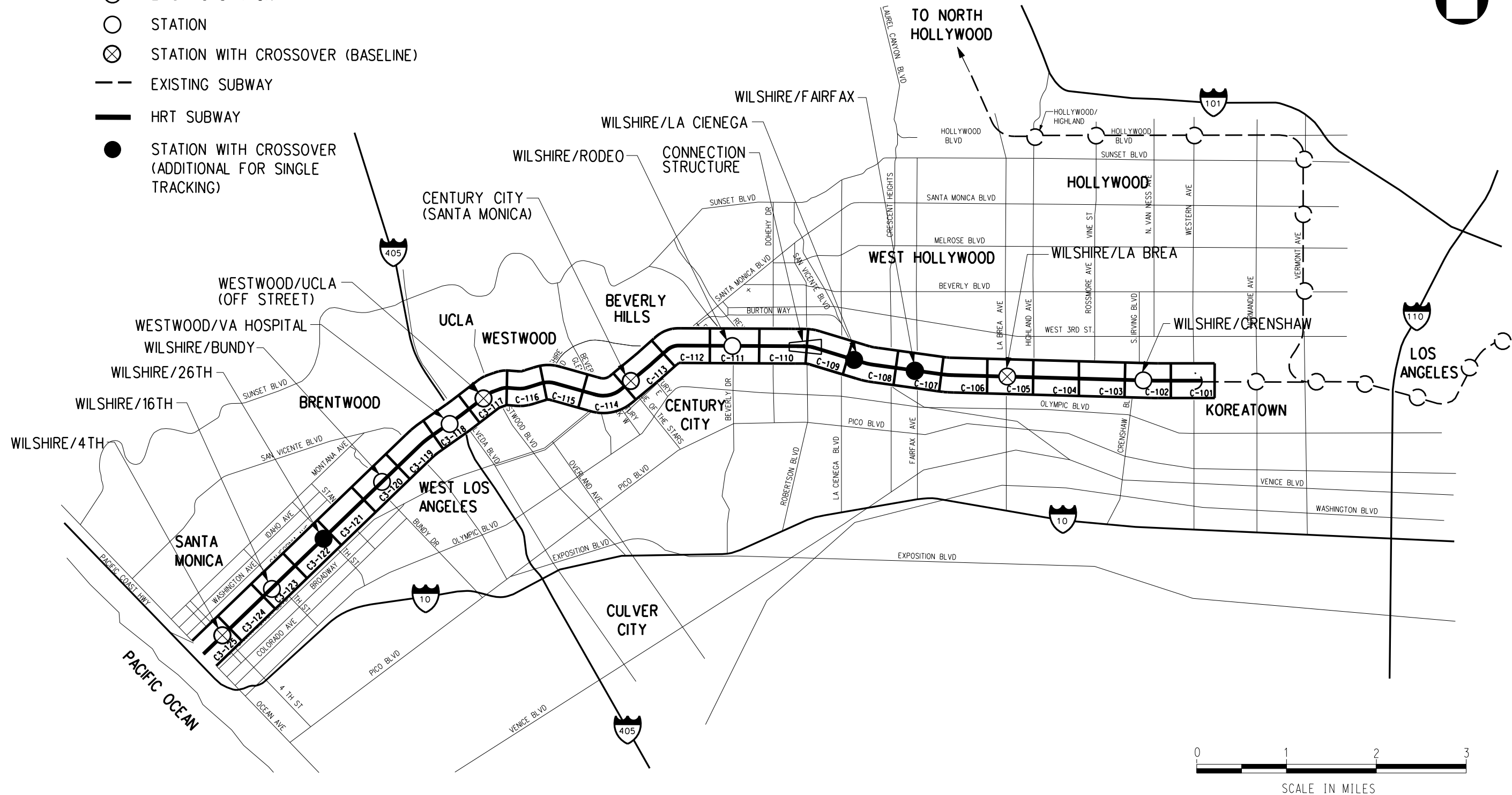
PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING  
  
SPECIAL TRACKWORK OPTION  
KEY MAP WITH  
CROSSOVER LOCATIONS

CONTRACT NO	
DRAWING NO	C2-100 V
SCALE	
SHEET NO	

**LEGEND**


- EXISTING STATION
- STATION
- ⊗ STATION WITH CROSSOVER (BASELINE)
- - - EXISTING SUBWAY
- HRT SUBWAY
- STATION WITH CROSSOVER (ADDITIONAL FOR SINGLE TRACKING)



SPECIAL TRACKWORK OPTION: ADDITIONAL CROSSOVERS (WILSHIRE/FAIRFAX, WILSHIRE/LA CIENEGA, WILSHIRE/RODEO, & WILSHIRE/26TH) - ALTERNATIVE 3

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**

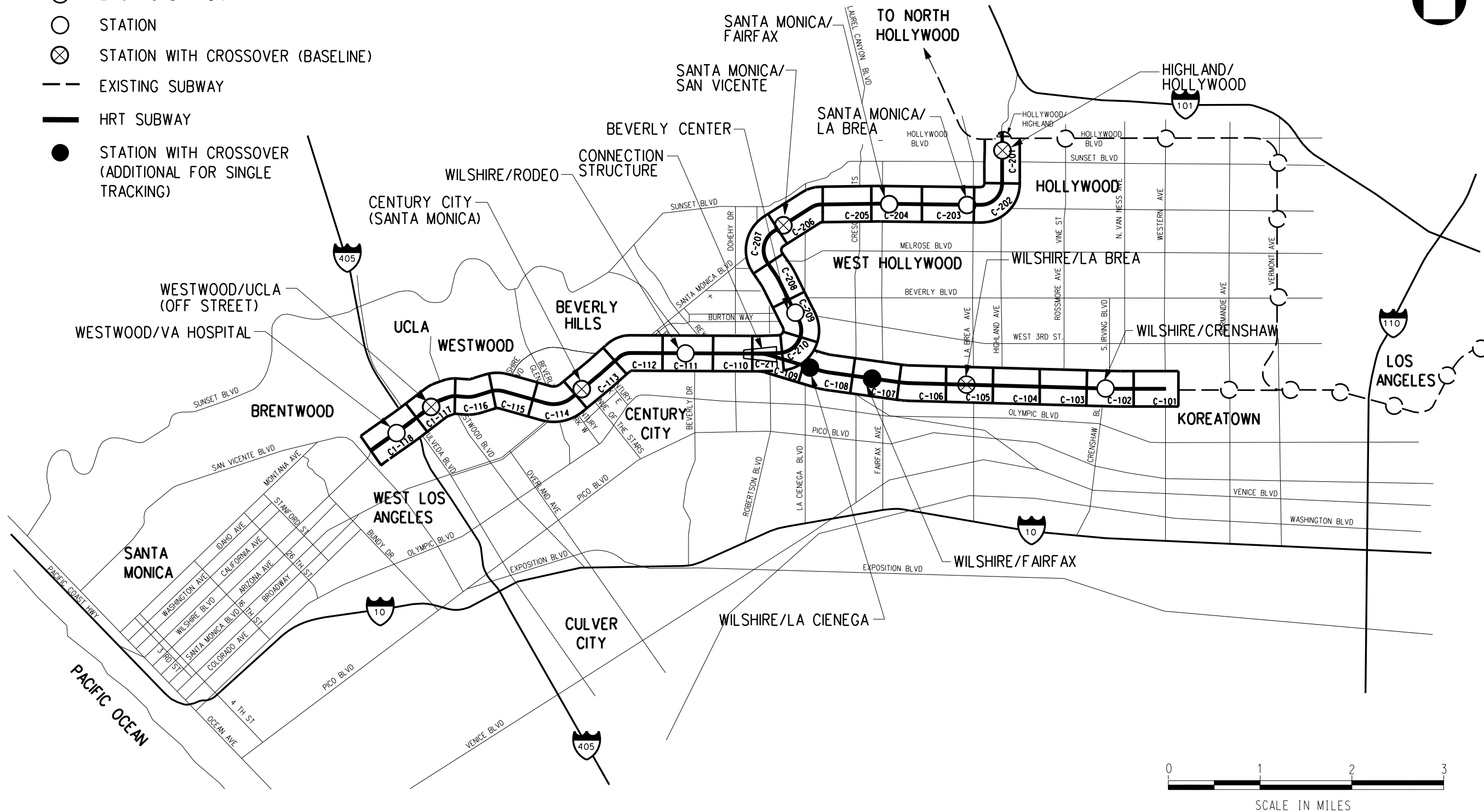
PROJECT MANAGER \_\_\_\_\_

**WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING**  
  
**SPECIAL TRACKWORK OPTION  
KEY MAP WITH  
CROSSOVER LOCATIONS**

CONTRACT NO	
DRAWING NO	C3-100 V
SCALE	
SHEET NO	

**LEGEND**

- EXISTING STATION
- STATION
- ⊗ STATION WITH CROSSOVER (BASELINE)
- - - EXISTING SUBWAY
- HRT SUBWAY
- STATION WITH CROSSOVER (ADDITIONAL FOR SINGLE TRACKING)



SPECIAL TRACKWORK OPTION: ADDITIONAL CROSSOVERS (WILSHIRE/FAIRFAX, WILSHIRE/LA CIENEGA, WILSHIRE/RODEO, & WILSHIRE/26TH) - ALTERNATIVE 4

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	JULY 2010



**Metro**

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

PROJECT MANAGER \_\_\_\_\_

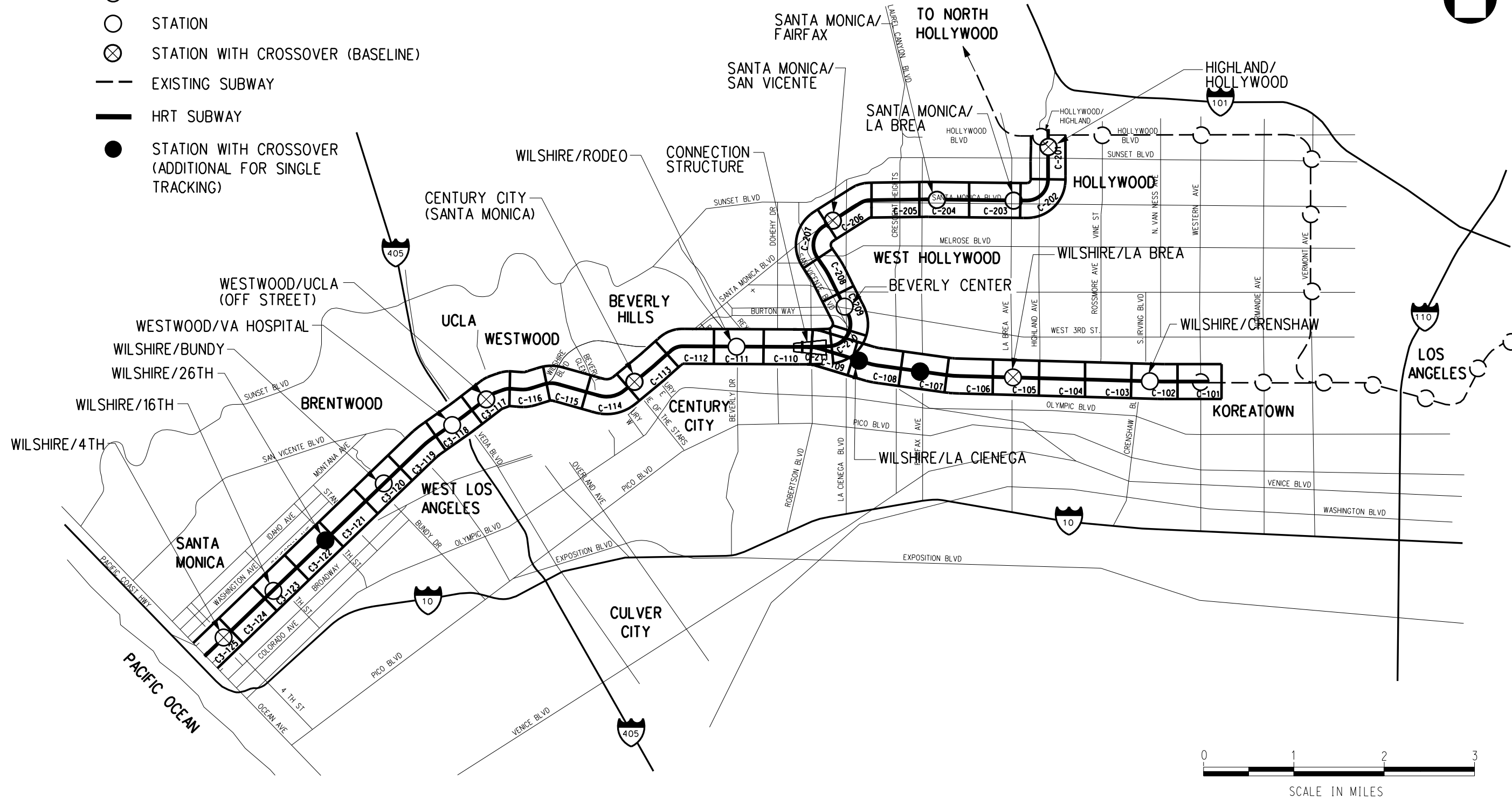
WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING

SPECIAL TRACKWORK OPTION  
KEY MAP WITH  
CROSSOVER LOCATIONS

CONTRACT NO	
DRAWING NO	C4-100 V
SCALE	
SHEET NO	

**LEGEND**

- EXISTING STATION
- STATION
- ⊗ STATION WITH CROSSOVER (BASELINE)
- - - EXISTING SUBWAY
- HRT SUBWAY
- STATION WITH CROSSOVER (ADDITIONAL FOR SINGLE TRACKING)



SPECIAL TRACKWORK OPTION: ADDITIONAL CROSSOVERS (WILSHIRE/FAIRFAX, WILSHIRE/LA CIENEGA, WILSHIRE/RODEO, & WILSHIRE/26TH) - ALTERNATIVE 5

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	JULY 2010



**Metro**

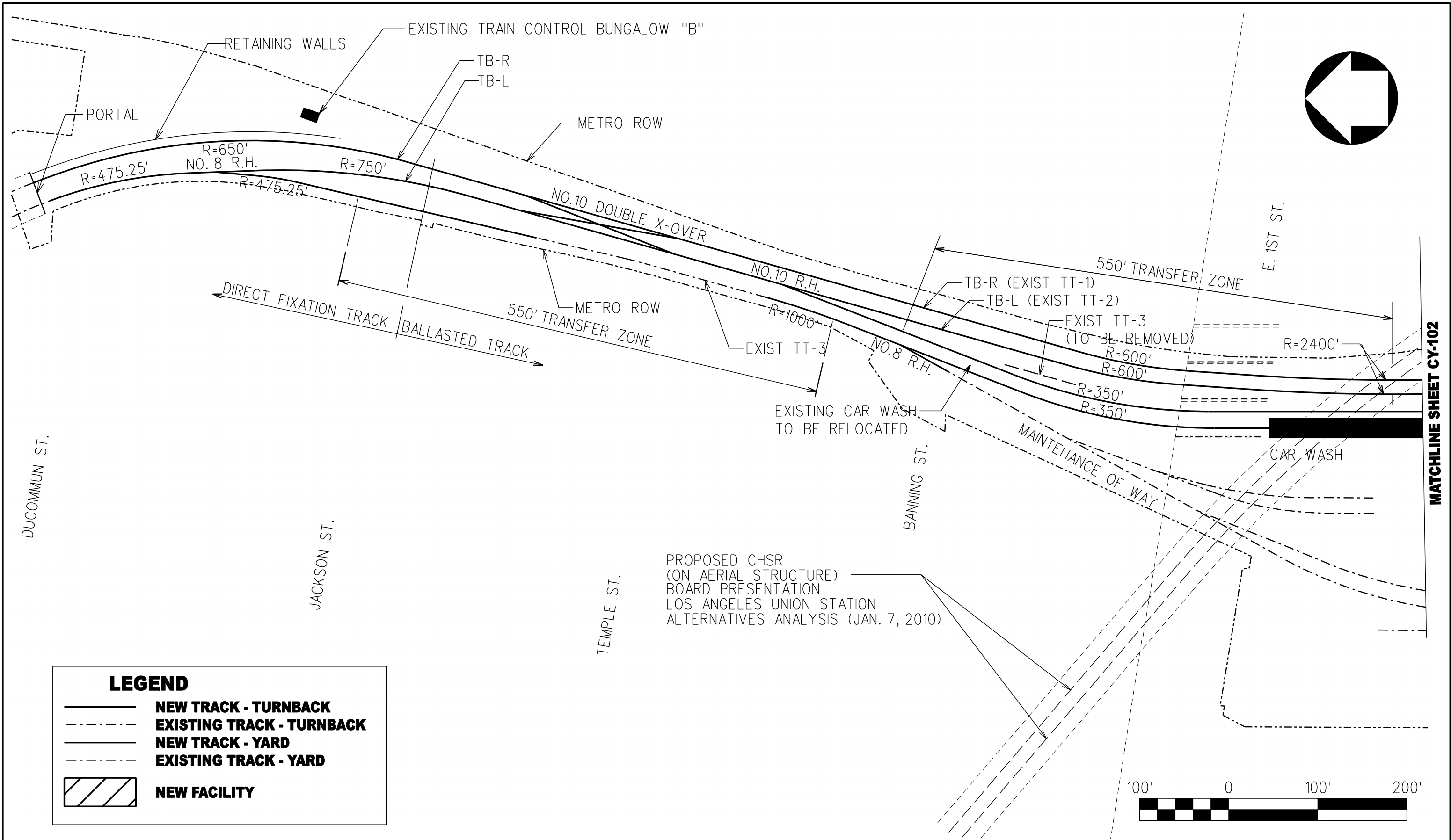
**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING

SPECIAL TRACKWORK OPTION  
KEY MAP WITH  
CROSSOVER LOCATIONS

CONTRACT NO	
DRAWING NO	C5-100 V
SCALE	
SHEET NO	



MATCHLINE SHEET CY-102

LEGEND	
	NEW TRACK - TURNBACK
	EXISTING TRACK - TURNBACK
	NEW TRACK - YARD
	EXISTING TRACK - YARD
	NEW FACILITY

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

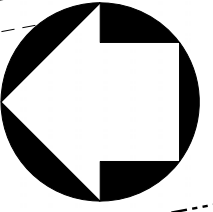
DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	JULY 2010

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**  
 PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
 ADV. CONCEPTUAL ENGINEERING  
 PROPOSED EXPANSION OF  
 DIVISION 20 MAINTENANCE FACILITIES  
 SHEET 1 OF 3

CONTRACT NO	
DRAWING NO	CY-101
SCALE	1" = 100'
SHEET NO	

User Name: USER-rdrig@7d3/2010 @ 12:28:30 PM File Name: T:\27940A-WestsideExtension\ACE\CADD\sheet\Yard\CY-101.plg



PROPOSED CHSR  
(ON AERIAL STRUCTURE)

BUILDING CATWALK CONNECTION  
TO MAINTENANCE BUILDING WITH  
STAIR AND ELEVATOR TO PLATFORM  
(NOT INCLUDED IN BUILD ALTERNATIVE)

PLATFORMS NO.1 AND NO.2 NOT  
INCLUDED IN BUILD ALTERNATIVE

POTENTIAL FUTURE MEZZANINE ABOVE PLATFORM WITH  
PEDESTRIAN BRIDGE TO DEVELOPMENT SITE BY OTHERS

PLACE HOLDER FOR PROPOSED TPSS  
AND TRAIN CONTROL BUNGALOW  
(NOT INCLUDED IN BUILD  
ALTERNATIVE)

METRO ROW

TRK-1  
TRK-3

R=1600'

R=1600'

R=1600'

TRK-5

TB-R  
TB-L

NO. 14 R.H.

NO. 14 L.H.

R=1600'

NO. 14 DOUBLE X-OVER

R=1200'

R=1600'

NO. 14 L.H.

NO. 8 R.H.

NO. 8 L.H.

NO. 6 R.H.

R=350'

TRK-6 THROUGH TRK-10

NEW PEDESTRIAN  
BRIDGE

CLEANING PLATFORMS

BLOW DOWN

NO. 8 DBLE X-OVER

NO. 8 L.H.

NO. 8 R.H.

NO. 8 R.H.

R=350'

NEW TRACK RELOCATED TRACK

NO. 8 L.H.

NO. 8 R.H.

NO. 8 L.H.

R=350'

NO. 8 L.H.

NO. 8 L.H.

SERVICE  
& INSPECTION  
ADMINISTRATION AREA  
ABOVE

POTENTIAL FUTURE DEVELOPMENT  
BY OTHERS

METRO ROW



**LEGEND**

- NEW TRACK - TURNBACK**
- EXISTING TRACK - TURNBACK**
- NEW TRACK - YARD**
- EXISTING TRACK - YARD**
- NEW FACILITY**

MATCHLINE SHEET CY-101

MATCHLINE SHEET CY-103

DESIGNED BY							
DRAWN BY							
CHECKED BY							
IN CHARGE							
DATE	JULY 2010						
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**

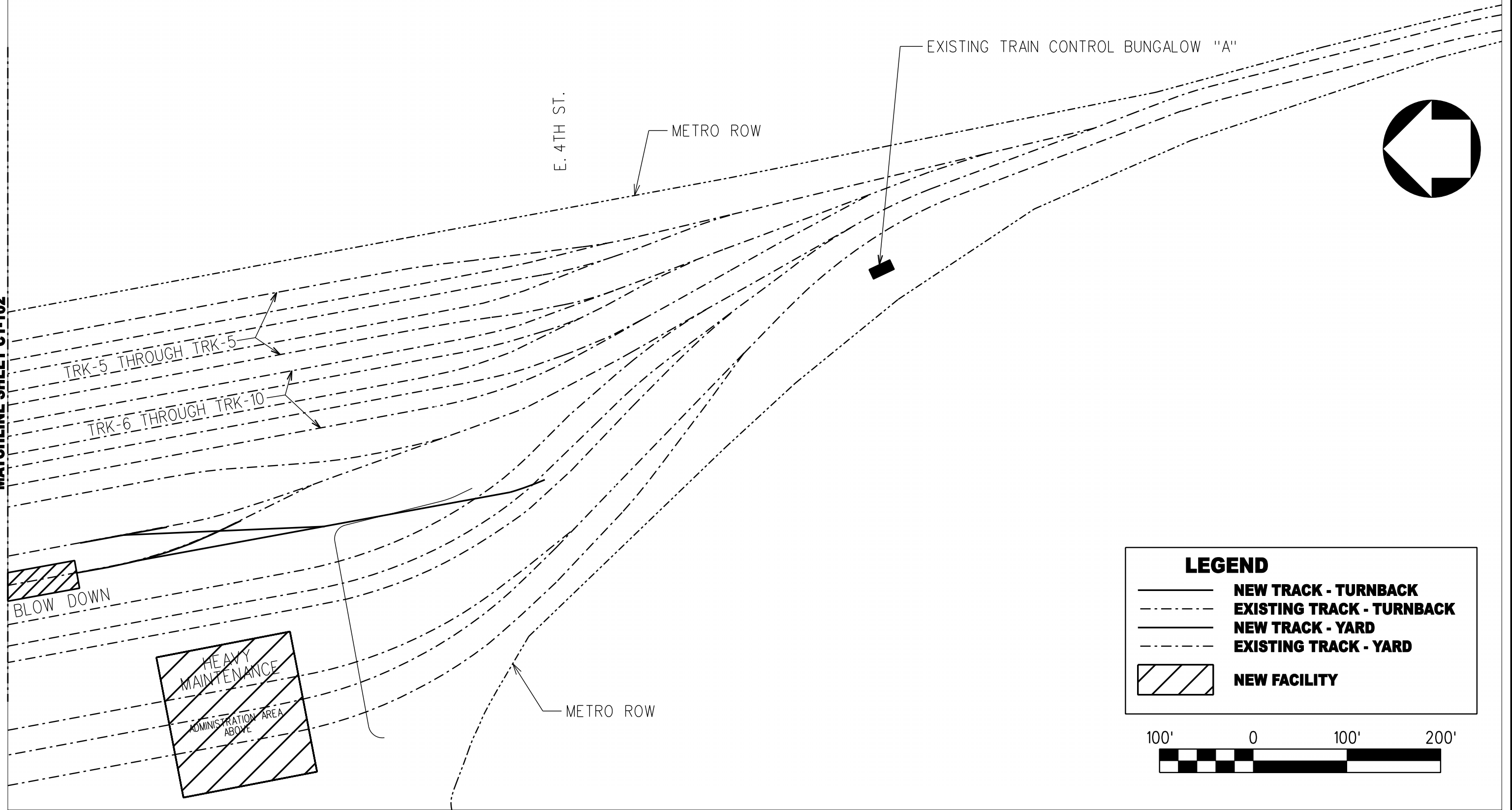
**Metro**  
PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING  
  
PROPOSED EXPANSION OF  
DIVISION 20 MAINTENANCE FACILITIES  
SHEET 2 OF 3

CONTRACT NO	
DRAWING NO	CY-102
SCALE	1" = 100'
SHEET NO	



MATCHLINE SHEET CY-102



**LEGEND**

- NEW TRACK - TURNBACK**
- EXISTING TRACK - TURNBACK**
- NEW TRACK - YARD**
- EXISTING TRACK - YARD**
- NEW FACILITY**



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY  
DRAWN BY  
CHECKED BY  
IN CHARGE  
DATE  
JULY 2010



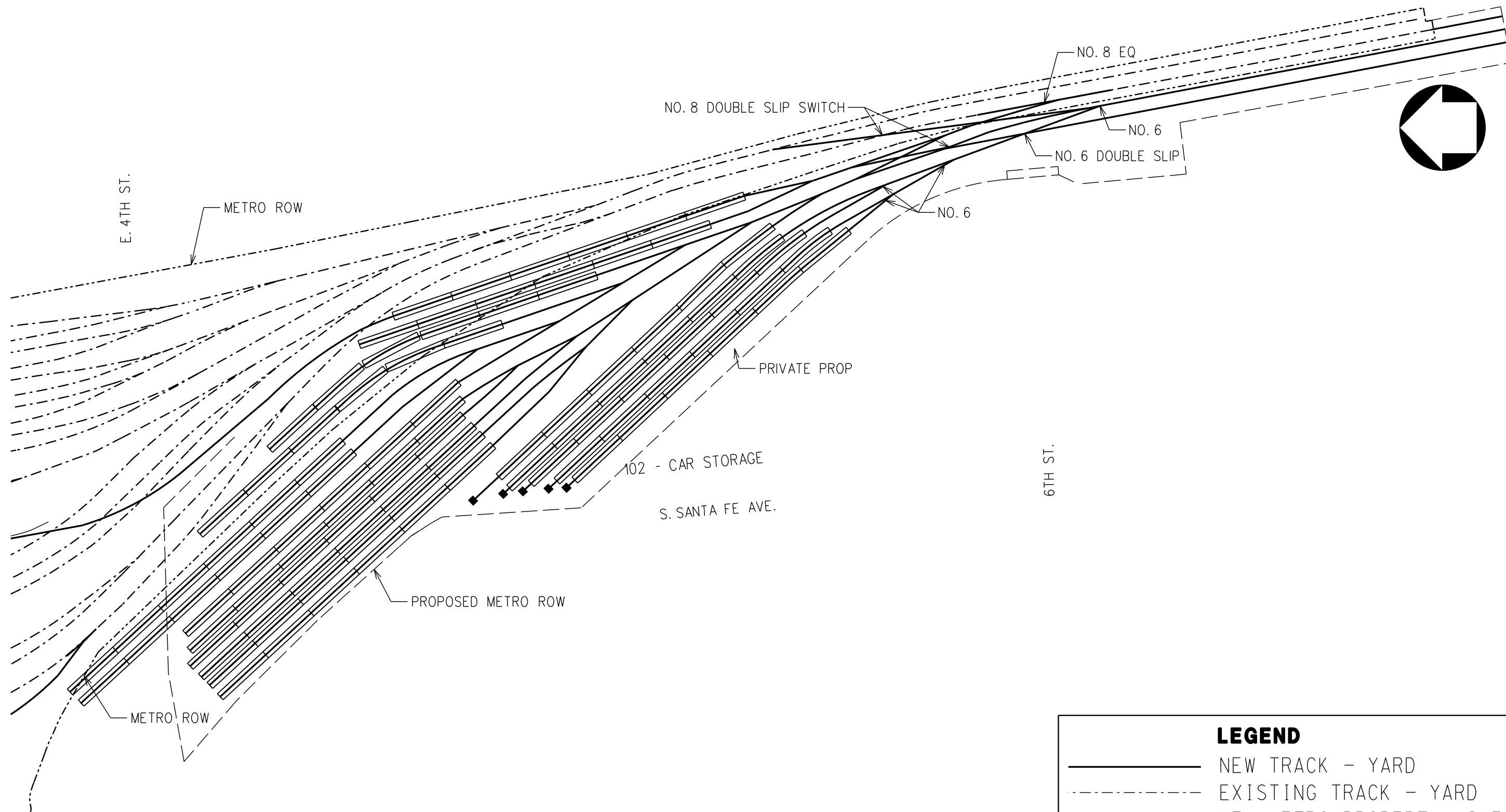
**Metro**

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING  
  
PROPOSED EXPANSION OF  
DIVISION 20 MAINTENANCE FACILITIES  
SHEET 3 OF 3

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



LEGEND	
	NEW TRACK - YARD
	EXISTING TRACK - YARD
	NEW METRO PROPERTY LINE

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE JULY 2010



**Metro**

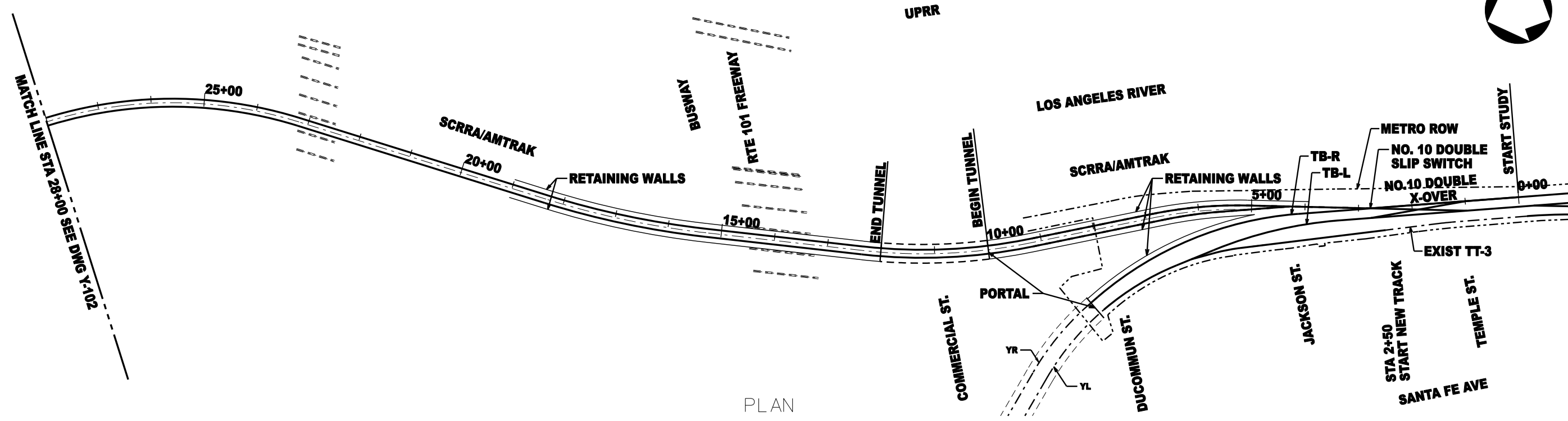
**LOS ANGELES COUNTY  
METROPOLITAN TRANSPORTATION AUTHORITY**

PROJECT MANAGER \_\_\_\_\_

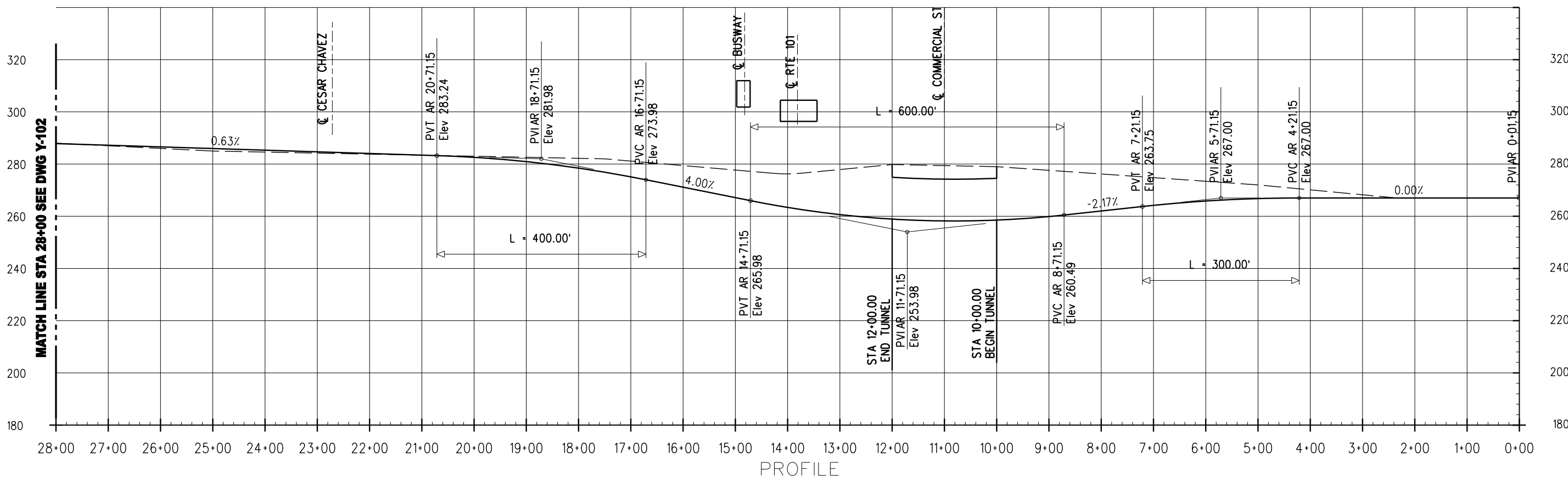
WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING

PROPOSED EXPANSION OF  
DIVISION 20 MAINTENANCE FACILITIES  
SOUTH YARD EXPANSION

CONTRACT NO	
DRAWING NO CY-104	REV
SCALE 1" = 120'	
SHEET NO	



PLAN



PROFILE

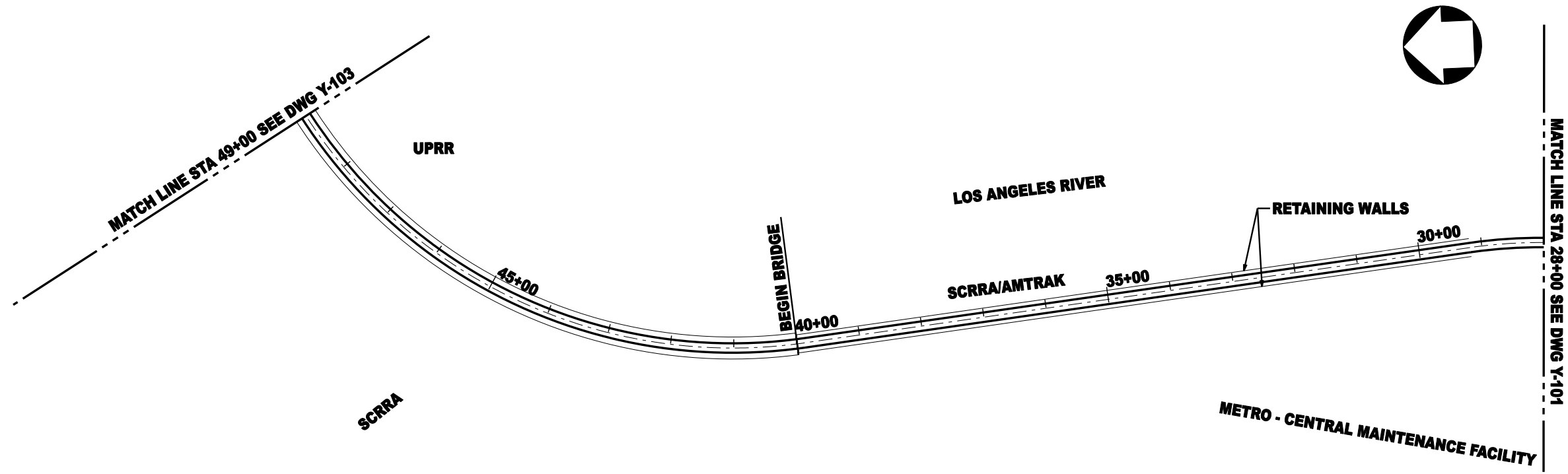
DESIGNED BY							
DRAWN BY							
CHECKED BY							
IN CHARGE							
DATE	JULY 2010						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION



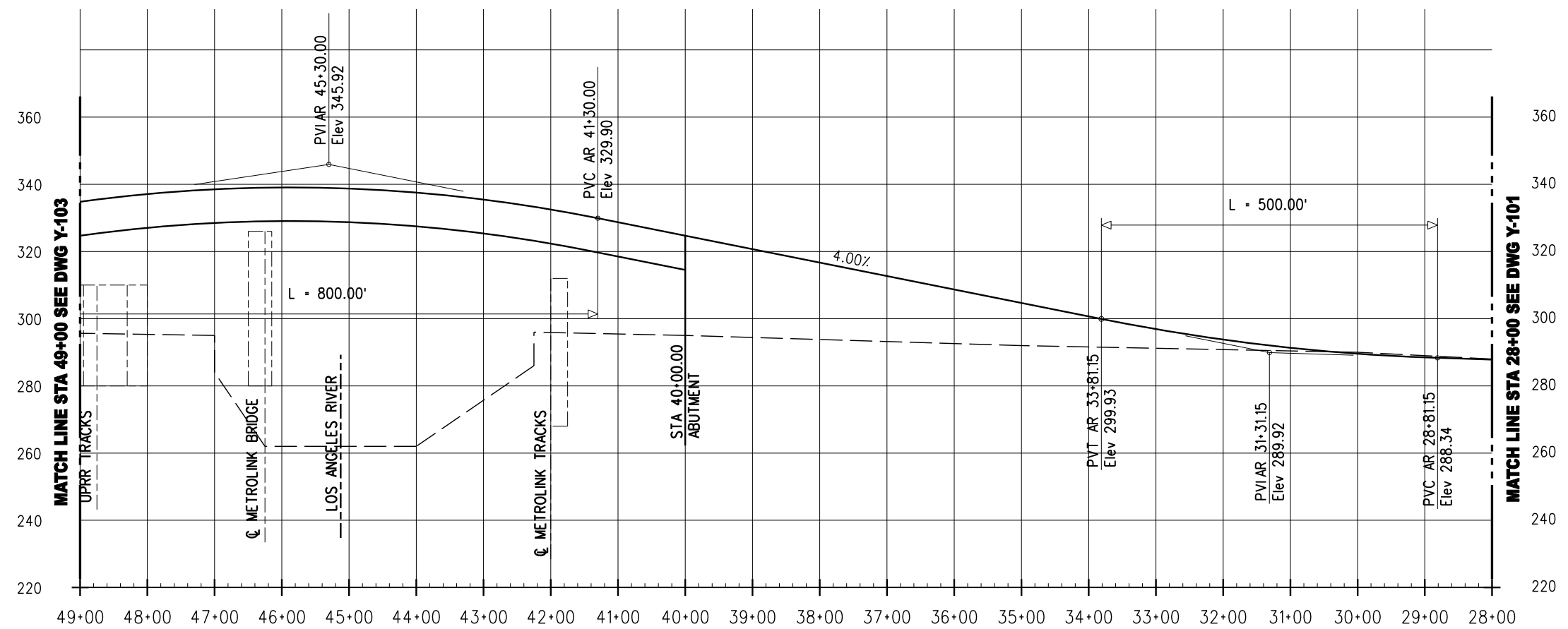
LOS ANGELES COUNTY  
METROPOLITAN TRANSPORTATION AUTHORITY

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING  
UNION PACIFIC LOS ANGELES  
TRANSPORTATION CENTER  
RAIL YARD ALTERNATIVE  
PLAN & PROFILE STA 0+00 TO 28+00

CONTRACT NO	
DRAWING NO	REV
CY-105	
SCALE	
1" = 200'	
SHEET NO	





PLAN



PROFILE

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

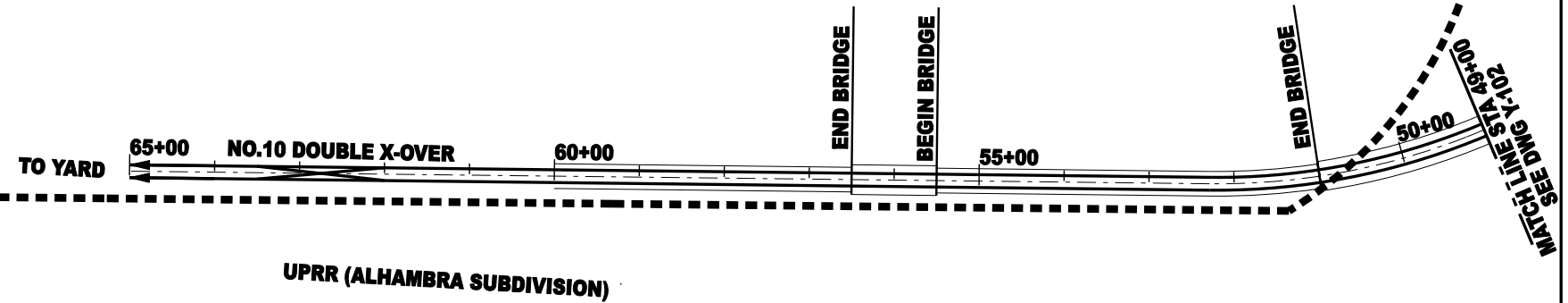
DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	JULY 2010


**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**  

 PROJECT MANAGER \_\_\_\_\_

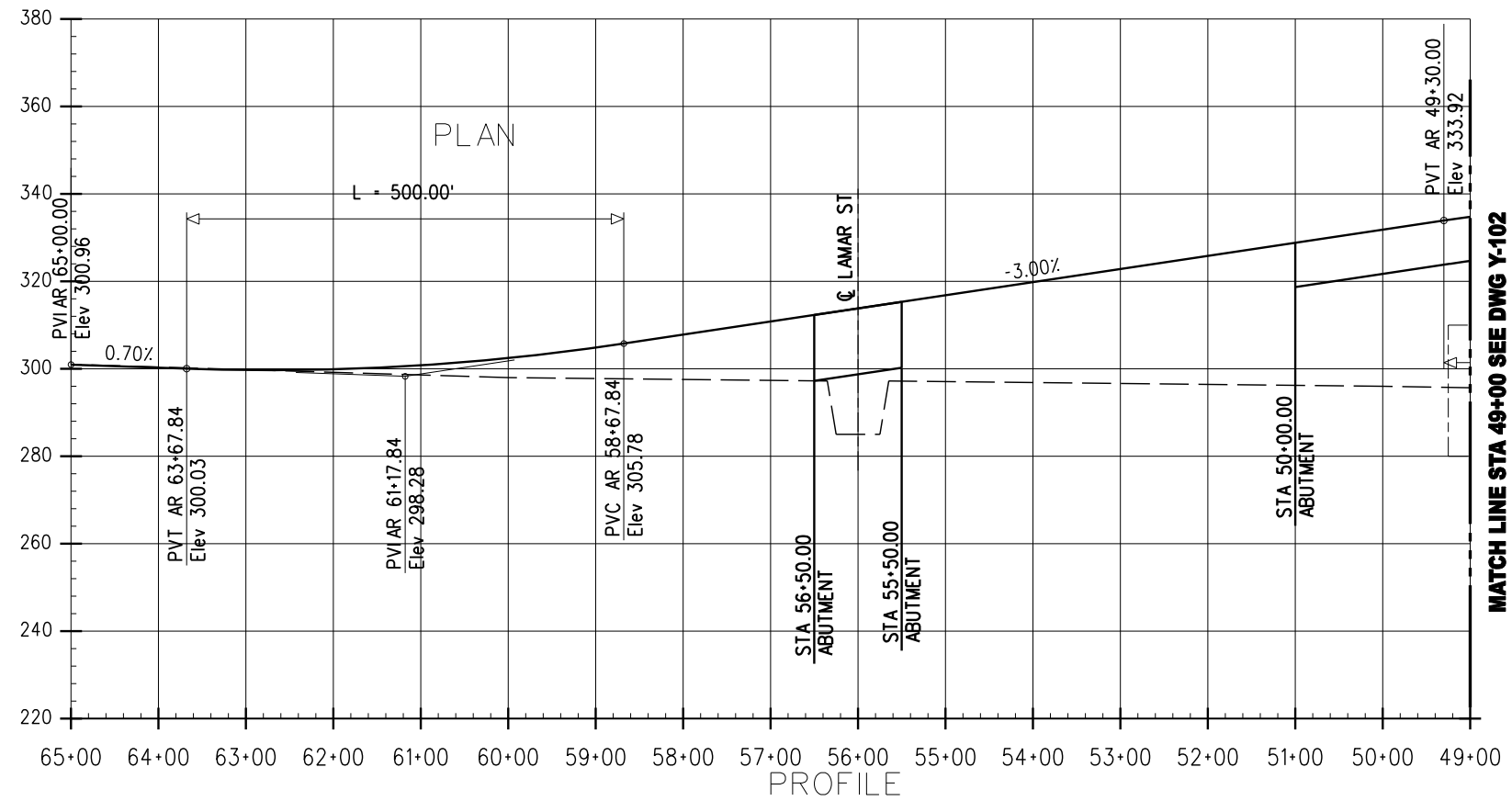
**WESTSIDE SUBWAY EXTENSION**  
**ADV. CONCEPTUAL ENGINEERING**  
**UNION PACIFIC LOS ANGELES**  
**TRANSPORTATION CENTER**  
**RAIL YARD ALTERNATIVE**  
**PLAN & PROFILE STA 28+00 TO 49+00**

CONTRACT NO	
DRAWING NO	REV
SCALE	1" = 200'
SHEET NO	

**UNION PACIFIC LOS ANGELES  
TRANSPORTATION CENTER RAIL YARD  
HEAVY RAIL FACILITY  
APPROX. 53.4 ACRES**



UPRR (ALHAMBRA SUBDIVISION)



MATCH LINE STA 49+00 SEE DWG Y-102

DESIGNED BY							
DRAWN BY							
CHECKED BY							
IN CHARGE							
DATE	JULY 2010						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION



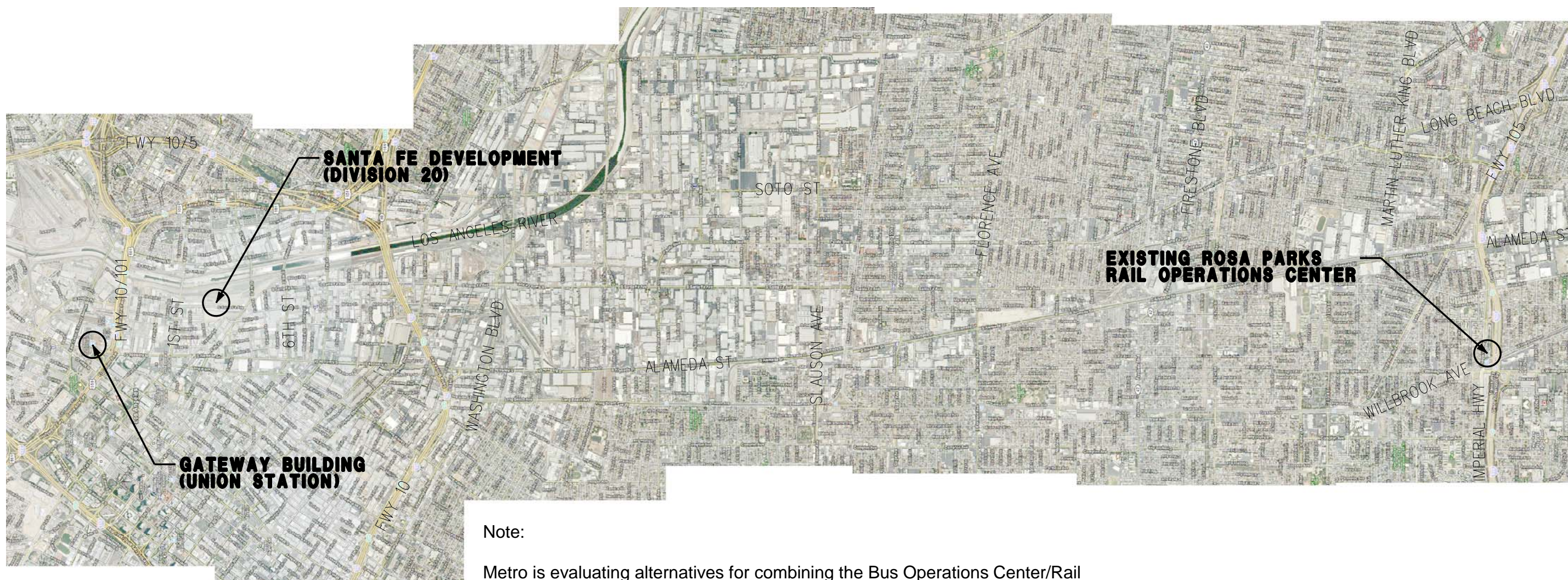
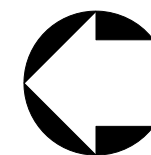
**LOS ANGELES COUNTY  
METROPOLITAN TRANSPORTATION AUTHORITY**

**Metro**

PROJECT MANAGER \_\_\_\_\_

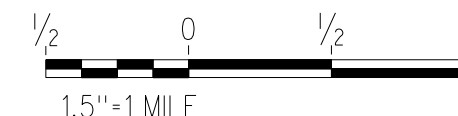
WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING  
UNION PACIFIC LOS ANGELES  
TRANSPORTATION CENTER  
RAIL YARD ALTERNATIVE  
PLAN & PROFILE STA 49+00 TO 65+00

CONTRACT NO	
DRAWING NO	Y-107
SCALE	1" = 200'
SHEET NO	



**Note:**

Metro is evaluating alternatives for combining the Bus Operations Center/Rail Operations Center. Three locations are being considered: Existing Rosa Parks Rail Operations Center, Metro's Headquarters at Gateway Center and One Santa Fe Development at Division 20. The Rosa Parks location includes two options: Immediate Implementation of a combined facility or Phased Implementation which defers combining BOC/ROC into one facility until a later phase. Under the scope of this document, only the Rosa Parks alternative is being environmentally cleared for Rail Operations only (i.e. not for combined rail and bus operations).



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	JULY 2010

**Metro**

**LOS ANGELES COUNTY  
METROPOLITAN TRANSPORTATION AUTHORITY**

PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING

RAIL OPERATIONS CENTER  
ALTERNATIVE SITES  
KEY MAP

CONTRACT NO	
DRAWING NO	REV
CY-000	
SCALE	
1.5" = 1 MILE	
SHEET NO	



BUILDING INFORMATION  
 (NOT YET REVIEWED BY LOS ANGELES COUNTY)  
 CBC 2007 EDITION

- A. CONSTRUCTION TYPE: TYPE IIA
- B. BUILDING AREA OF NEW CONSTRUCTION - 2 SEPARATE BUILDINGS
- 3 HOUR RATED SEPARATIONS BETWEEN EXISTING AND NEW BUILDINGS
- |                       |             |
|-----------------------|-------------|
| NORTH ADDITION:       |             |
| FIRST FLOOR:          | = 13,300 SF |
| SECOND FLOOR:         | = 13,300 SF |
| PENTHOUSE (ESTIMATED) | = 2,500 SF  |
| <hr/>                 | <hr/>       |
| TOTAL BUILDING        | = 29,100 SF |
| EAST ADDITION:        |             |
| FIRST FLOOR:          | = 8,100 SF  |
| SECOND FLOOR:         | = 8,100 SF  |
| PENTHOUSE (ESTIMATED) | = 2,500 SF  |
| <hr/>                 | <hr/>       |
| TOTAL BUILDING        | = 18,700 SF |

- C. BASIC ALLOWABLE AREA (TABLE 503 - TYPE IIA, GROUP B) = 37,500 SF EACH
- D. OCCUPANCY (IF ACCORDING TO DETERMINATION FOR ORIGINAL BUILDING)

DESCRIPTION: THE BUILDING IS CLASSIFIED CENTRAL CONTROL W/ ANCILLARY SPACES EXCEPT: OFFICE AREAS - CORRIDOR - BATHROOMS AT FIRST FLOOR CLASSIFIED AS GENERAL OFFICE.

- |  |    |
|--|----|
| 1.) SERVICE CONTROL W/ ANCILLARY SPACE | B2 |
| 2.) GENERAL OFFICE                     | B2 |

- E. FIRE SEPARATION
- |   |   |          |
|---|---|----------|
| NEW SERVICE CONTROL TO GENERAL OFFICE   | = | TWO HOUR |
| NEW SERVICE CONTROL TO ANCILLARY SPACES | = | ONE HOUR |
| ANCILLARY SPACES TO ANCILLARY SPACES    | = | ONE HOUR |

- F. BUILDING AREA OF NEW CONSTRUCTION - EXISTING BUILDING AND ADDITION DETERMINED AS ONE LARGER BUILDING - REQUIRES REVIEW OF CODE PROVISIONS WITH REGULATORY AGENCY

DESIGNED BY							
DRAWN BY							
CHECKED BY							
IN CHARGE							
DATE	JULY 2010						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	JULY 2010

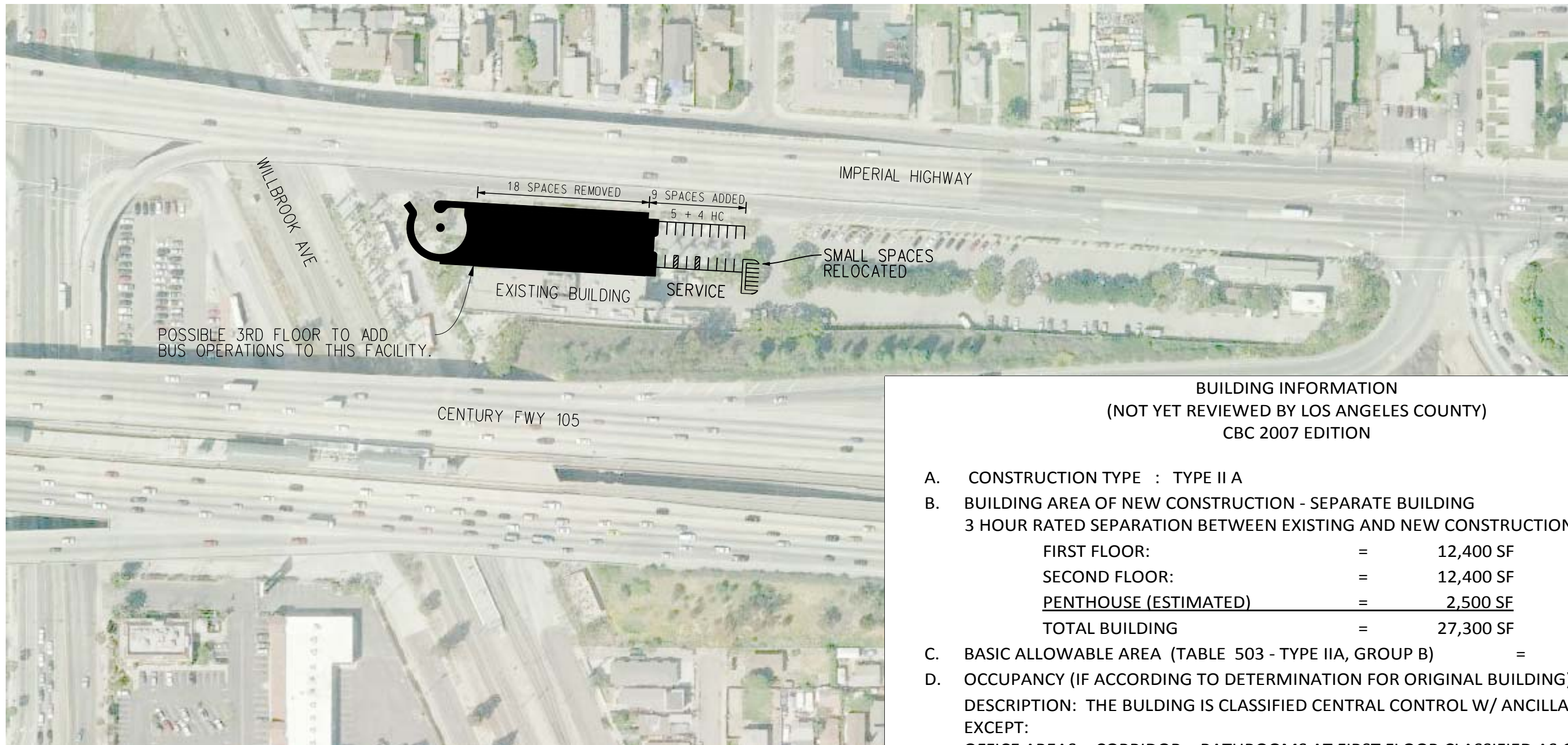
**M** Metro  
**PB** PROJECT MANAGER \_\_\_\_\_

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

**WESTSIDE SUBWAY EXTENSION ADV. CONCEPTUAL ENGINEERING**

RAIL OPERATIONS CENTER EXPANSION SITE LAYOUT STUDY

CONTRACT NO	
DRAWING NO	Y-108
SCALE	NTS
SHEET NO	



**BUILDING INFORMATION**  
 (NOT YET REVIEWED BY LOS ANGELES COUNTY)  
 CBC 2007 EDITION

- A. CONSTRUCTION TYPE : TYPE II A
- B. BUILDING AREA OF NEW CONSTRUCTION - SEPARATE BUILDING  
 3 HOUR RATED SEPARATION BETWEEN EXISTING AND NEW CONSTRUCTION
 

FIRST FLOOR:	=	12,400 SF
SECOND FLOOR:	=	12,400 SF
<u>PENTHOUSE (ESTIMATED)</u>	=	<u>2,500 SF</u>
<b>TOTAL BUILDING</b>	<b>=</b>	<b>27,300 SF</b>
- C. BASIC ALLOWABLE AREA (TABLE 503 - TYPE IIA, GROUP B) = 37,500 SF
- D. OCCUPANCY (IF ACCORDING TO DETERMINATION FOR ORIGINAL BUILDING)  
 DESCRIPTION: THE BULDING IS CLASSIFIED CENTRAL CONTROL W/ ANCILLARY SPACES EXCEPT:  
 OFFICE AREAS – CORRIDOR – BATHROOMS AT FIRST FLOOR CLASSIFIED AS GENERAL OFFICE.
 

1) SERVICE CONTROL W/ ANCILLARY SPACE	B2
2) GENERAL OFFICE	B2
- E. FIRE SEPARATION
 

NEW SERVICE CONTROL TO GENERAL OFFICE	=	TWO HOUR
NEW SERVICE CONTROL TO ANCILLARY SPACES	=	ONE HOUR
ANCILLARY SPACES TO ANCILLARY SPACES	=	ONE HOUR
- F. BUILDING AREA OF NEW CONSTRUCTION – EXISTING BUILDING AND ADDITION  
 DETERMINED AS ONE LARGER BUILDING – REQUIRES REVIEW OF CODE PROVISIONS WITH REGULATORY AGENCY

DESIGNED BY							
DRAWN BY							
CHECKED BY							
IN CHARGE							
DATE	JULY 2010						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION



**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

**Metro**

PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
 ADV. CONCEPTUAL ENGINEERING  
 RAIL OPERATIONS  
 CENTER EXPANSION  
 SITE LAYOUT STUDY  
 NORTH ADDITION

CONTRACT NO	
DRAWING NO	CY-109
SCALE	NTS
SHEET NO	







BUILDING INFORMATION  
 (NOT YET REVIEWED BY LOS ANGELES COUNTY)  
 CBC 2007 EDITION

- A. CONSTRUCTION TYPE: TYPE IIA
- B. BUILDING AREA OF NEW CONSTRUCTION - 2 SEPARATE BUILDINGS  
 3 HOUR RATED SEPARATIONS BETWEEN EXISTING AND NEW BUILDINGS  
 EAST ADDITION:  
 FIRST FLOOR: = 10,000 SF  
 SECOND FLOOR: = 10,000 SF  
 PENTHOUSE (ESTIMATED) = 2,500 SF  
 TOTAL BUILDING = 22,500 SF
- C. BASIC ALLOWABLE AREA (TABLE 503 - TYPE IIA, GROUP B) = 37,500 SF EACH

- D. OCCUPANCY (IF ACCORDING TO DETERMINATION FOR ORIGINAL BUILDING)  
 DESCRIPTION: THE BUILDING IS CLASSIFIED CENTRAL CONTROL W/ ANCILLARY SPACES EXCEPT:  
 OFFICE AREAS - CORRIDOR - BATHROOMS AT FIRST FLOOR CLASSIFIED AS GENERAL OFFICE.  
 1.) SERVICE CONTROL W/ ANCILLARY SPACE B2  
 2.) GENERAL OFFICE B2
- E. FIRE SEPARATION  
 NEW SERVICE CONTROL TO GENERAL OFFICE = TWO HOUR  
 NEW SERVICE CONTROL TO ANCILLARY SPACES = ONE HOUR  
 ANCILLARY SPACES TO ANCILLARY SPACES = ONE HOUR
- F. BUILDING AREA OF NEW CONSTRUCTION - EXISTING BUILDING AND ADDITION  
 DETERMINED AS ONE LARGER BUILDING - REQUIRES REVIEW OF CODE  
 PROVISIONS WITH REGULATORY AGENCY

DESIGNED BY							
DRAWN BY							
CHECKED BY							
IN CHARGE							
DATE	JULY 2010						
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  
 RAIL OPERATIONS  
 CENTER EXPANSION  
 SITE LAYOUT STUDY  
 EAST ADDITION**

CONTRACT NO	
DRAWING NO	REV
CY-110	
SCALE	NTS
SHEET NO	



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE JULY 2010



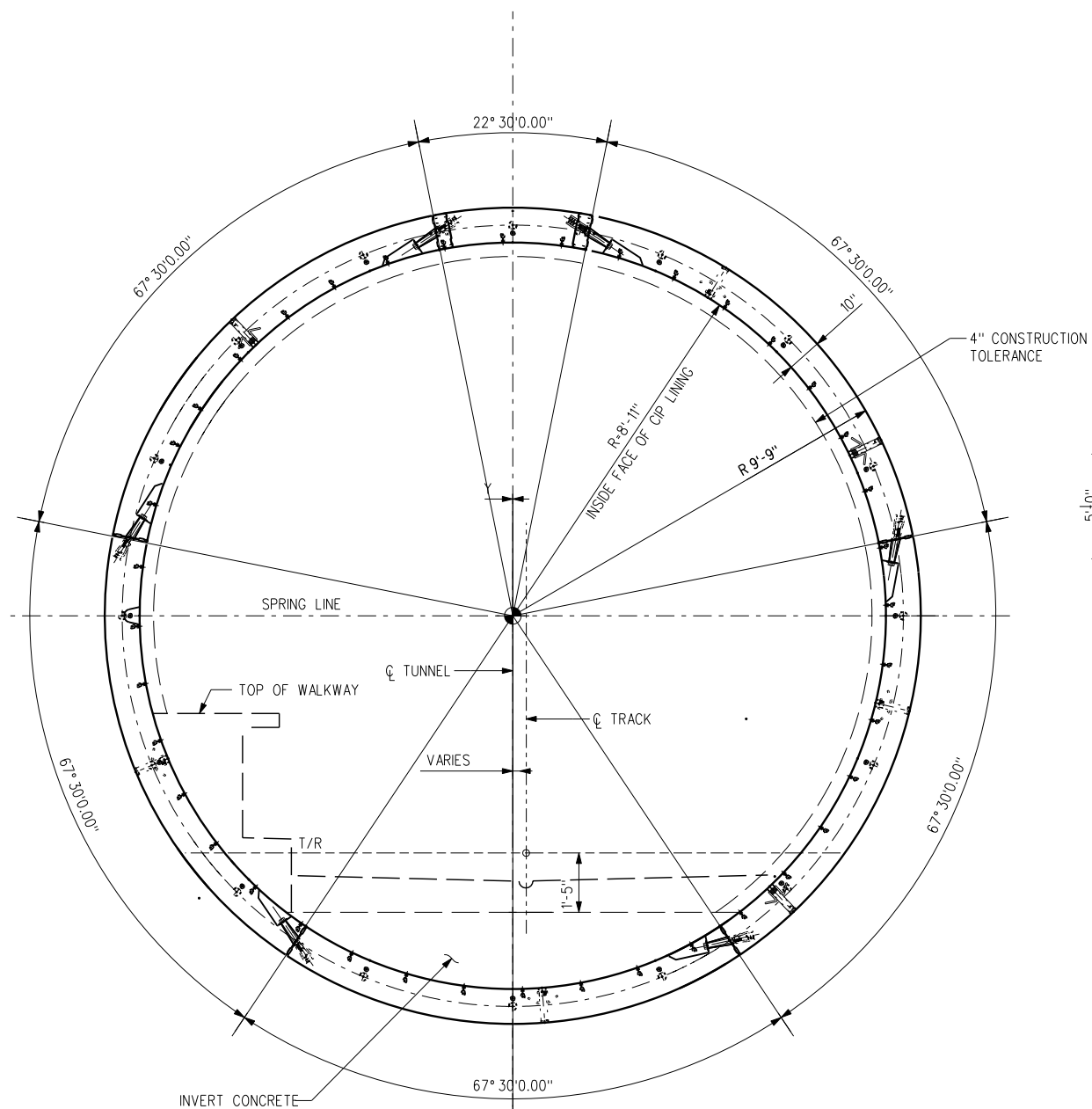
**LOS ANGELES COUNTY  
METROPOLITAN TRANSPORTATION AUTHORITY**

**Metro**

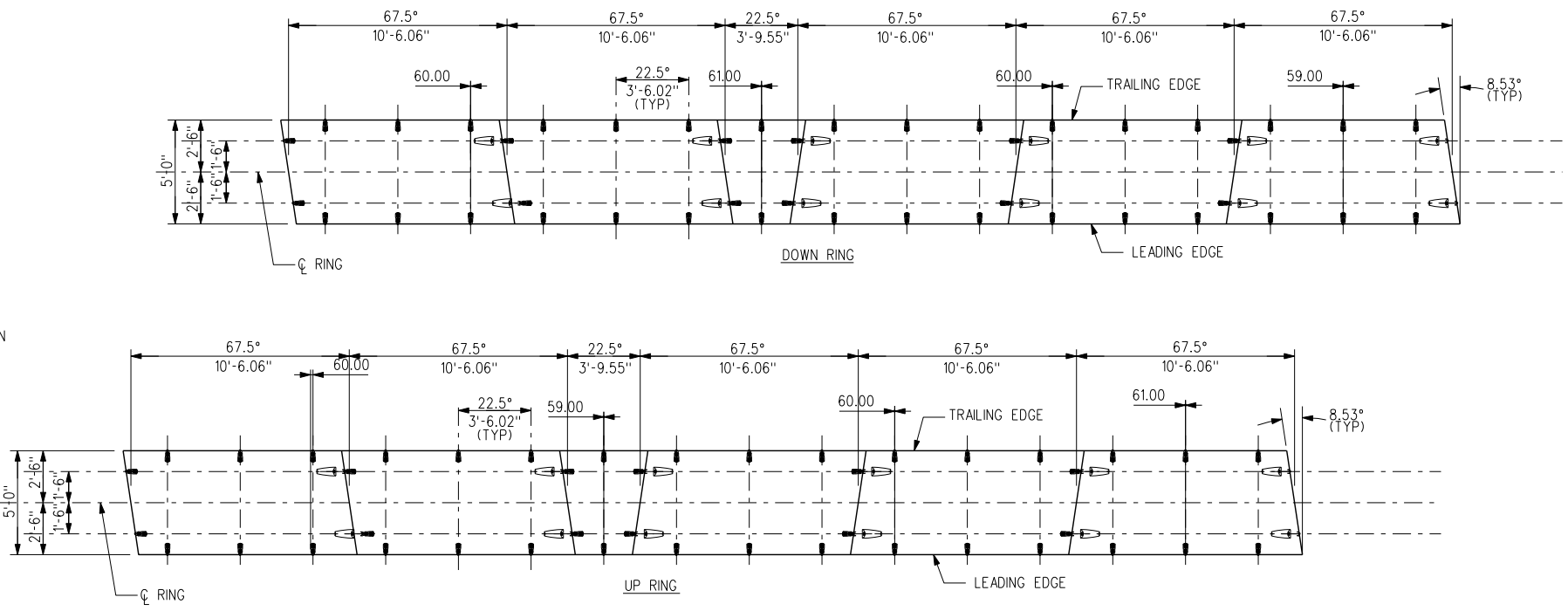
PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING  
RAIL OPERATIONS  
CENTER EXPANSION  
SITE LAYOUT STUDY  
COMPOSITE ADDITIONS

CONTRACT NO	
DRAWING NO CY-111	REV
SCALE NTS	
SHEET NO	





**TYPICAL SECTION**  
 1/2" = 1'-0"  
 15 CIRCUMFERENTIAL BOLTS @ 24°  
 5'-0" WIDE SEGMENTS



**LINING DEVELOPMENT DIAGRAM**  
 NO SCALE

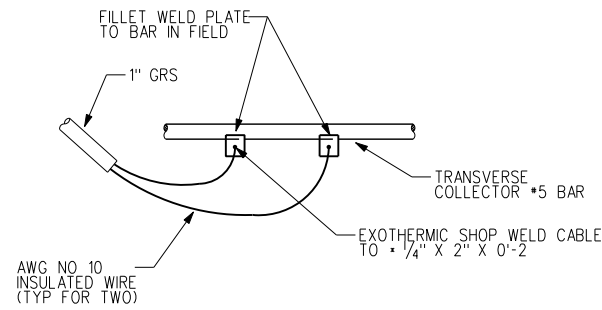
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	JULY 2010


**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**  

 PROJECT MANAGER \_\_\_\_\_

**WESTSIDE SUBWAY EXTENSION**  
**ADV. CONCEPTUAL ENGINEERING**  
  
 TUNNEL TYPICAL SECTIONS  
 PRECAST CONCRETE LINING

CONTRACT NO	
DRAWING NO	Y-010
SCALE	1/2" = 1'
SHEET NO	

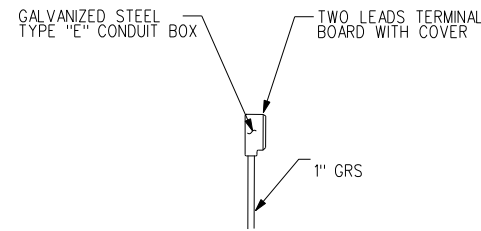


DETAIL

NO SCALE

2

Y-012

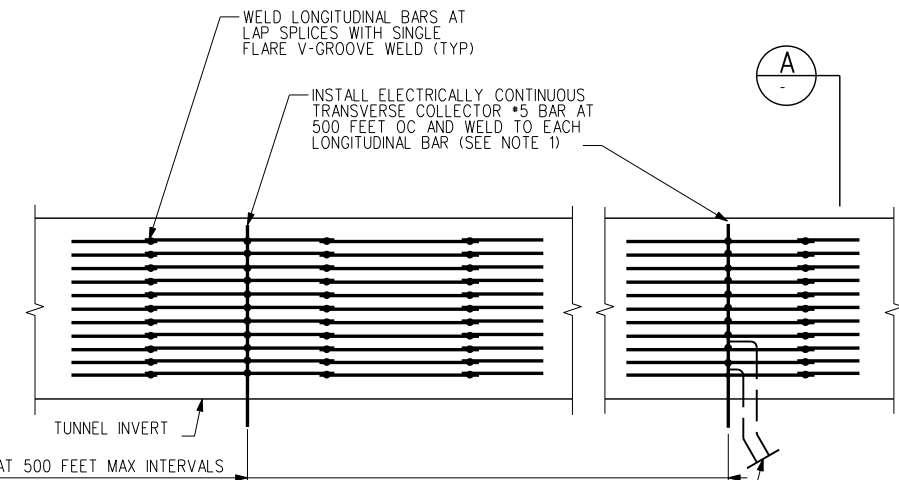


DETAIL

NO SCALE

1

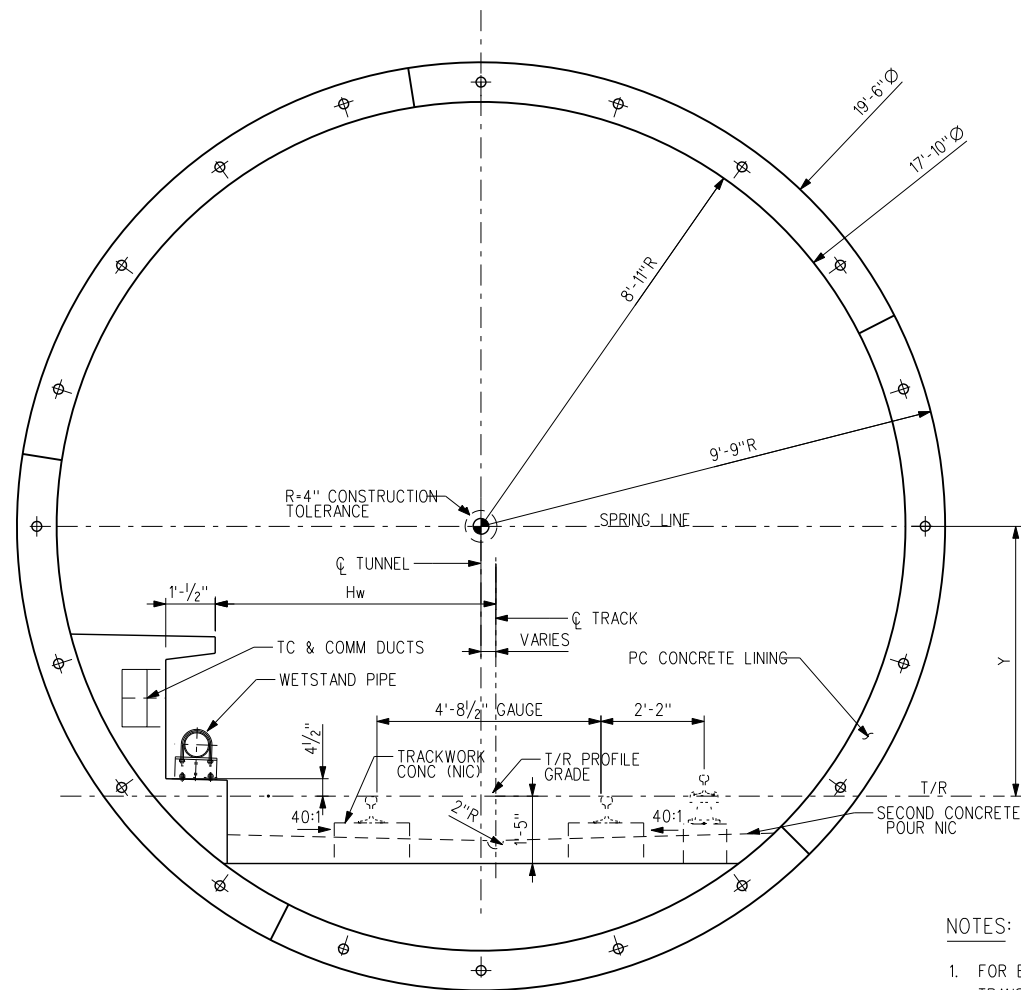
Y-012



XHHW INSULATED AWG NO 10 STRANDED COPPER TEST WIRES, EXOTHERMIC WELD TO TRANSVERSE COLLECTOR BAR. WIRES TO BE TERMINATED IN A TEST BOX. TEST WIRES TO BE INSTALLED AT 1000 FOOT INTERVALS ALONG ENTIRE STRUCTURE AND AT ALL CONNECTIONS TO EXISTING OR FUTURE CUT AND.

TYP. INVERT COLLECTOR PLAN

NO SCALE

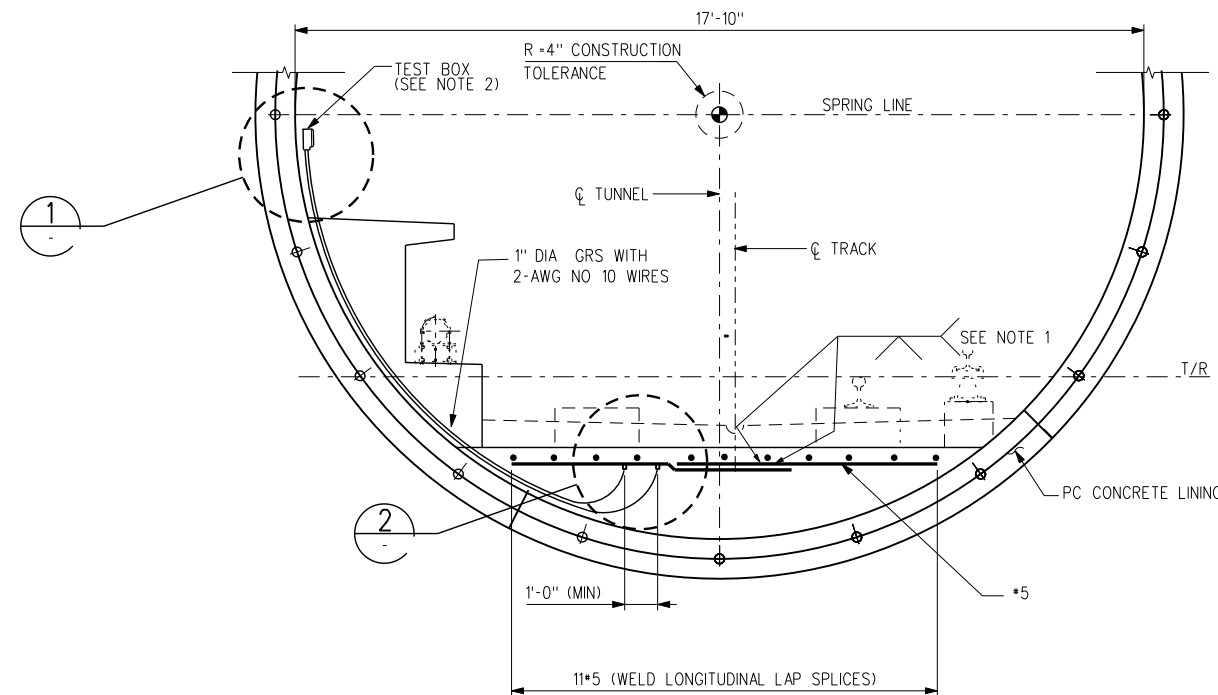


TYP. SECTION TANGENT TRACK

1/2"=1'-0"

NOTES:

- FOR ELECTRICAL CONTINUITY, WELD LONGITUDINAL BARS TO TRANSVERSE COLLECTOR BARS WITH SINGLE FLARE V-GROOVE WELDS.
- TEST BOX SHALL NOT INTRUDE INTO THE REQUIRED MIN 2'-6" FOR WALKWAY.



SECTION

1/2"=1'-0"

A

Y-012



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	JULY 2010



Metro

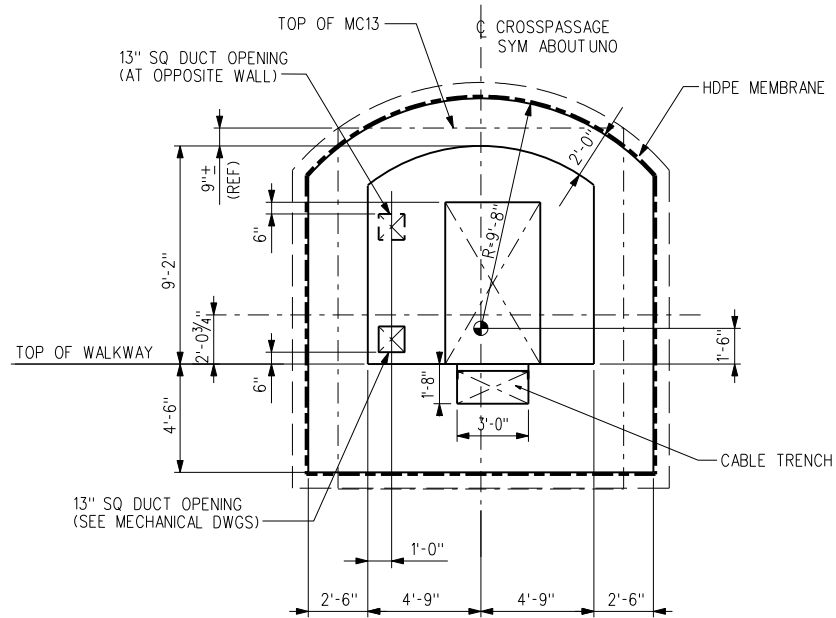
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION ADV. CONCEPTUAL ENGINEERING

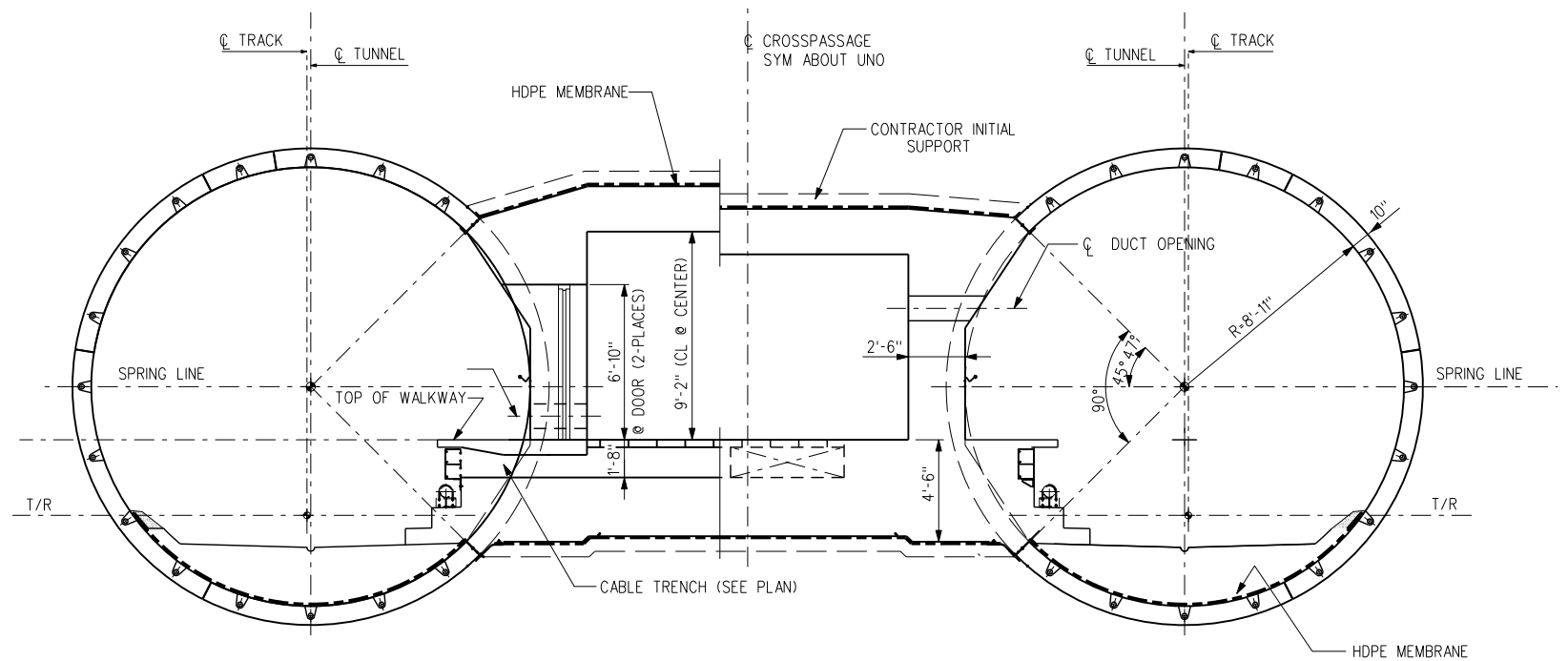
TUNNEL TYPICAL SECTIONS INVERT DETAILS

CONTRACT NO	
DRAWING NO	REV
Y-012	
SCALE	
AS NOTED	
SHEET NO	



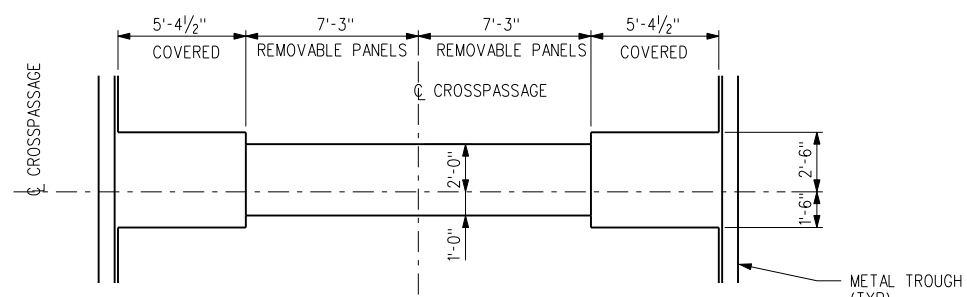
SECTION

**B**  
Y-015

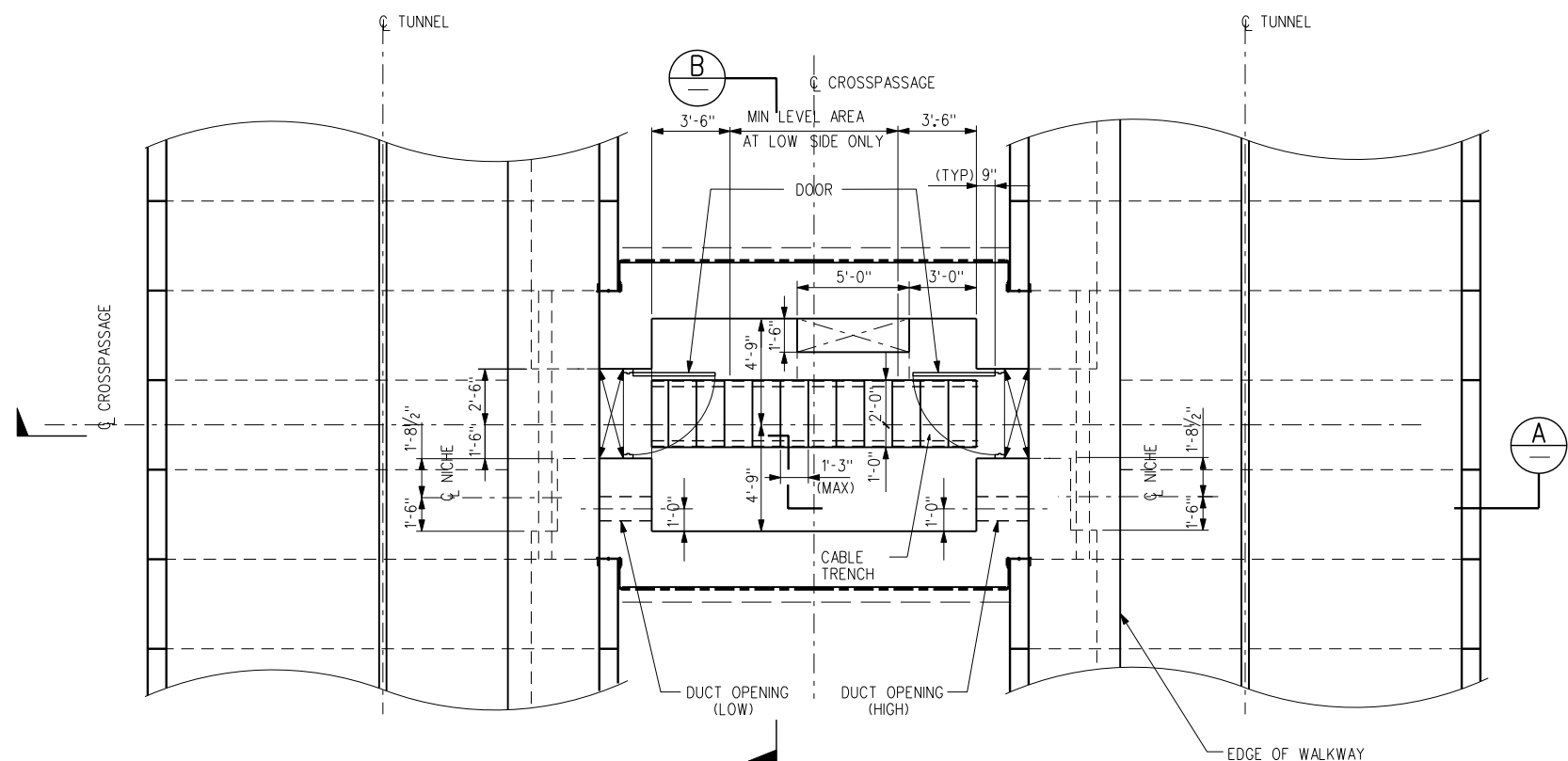


SECTION

**A**  
Y-015



CABLE TRENCH FLOOR PLAN



PLAN AT CROSSPASSES

DESIGNED BY							
DRAWN BY							
CHECKED BY							
IN CHARGE							
DATE	JULY 2010						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION



**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

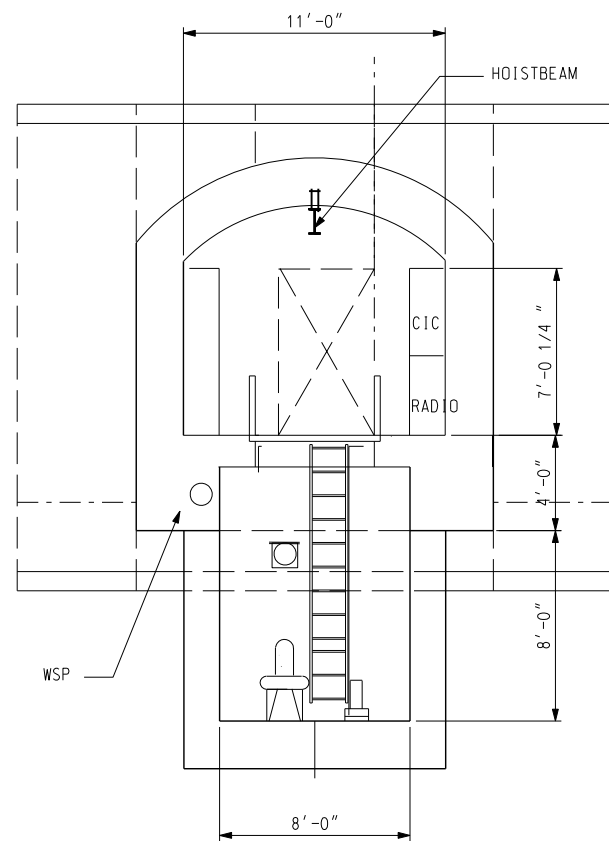
**Metro**

PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING

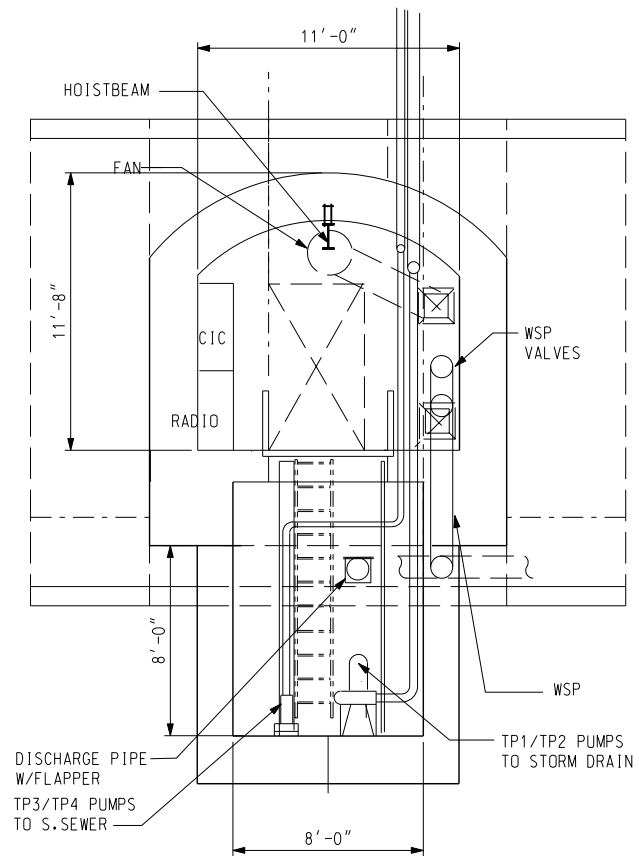
CROSSPASSES PLAN AND SECTIONS  
PRECAST CONCRETE LINING

CONTRACT NO	
DRAWING NO	REV
Y-015	
SCALE	1/4" = 1'
SHEET NO	



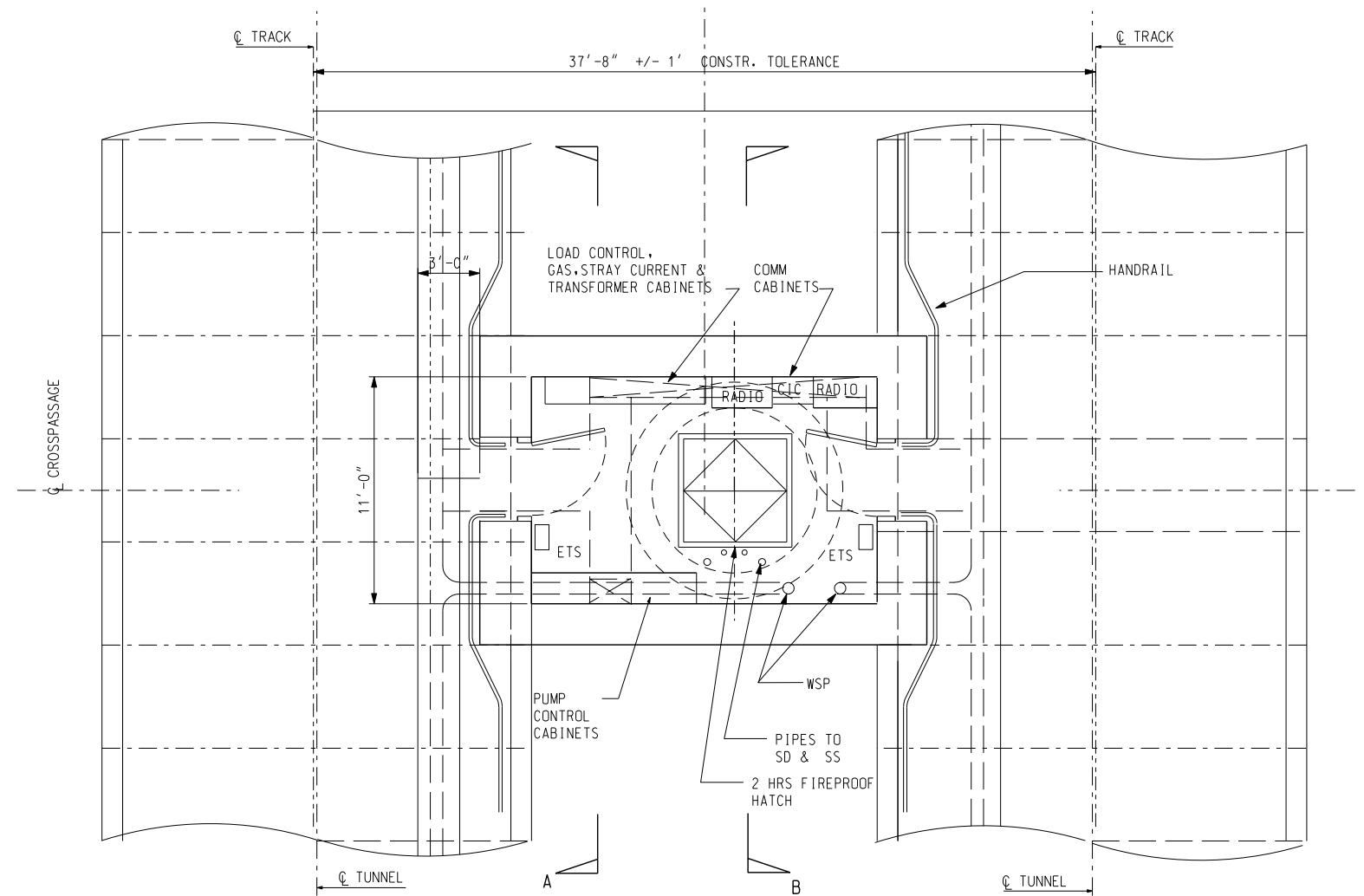
SECTION

A  
Y-016



SECTION

B  
Y-016



PLAN

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE JULY 2010



**Metro**

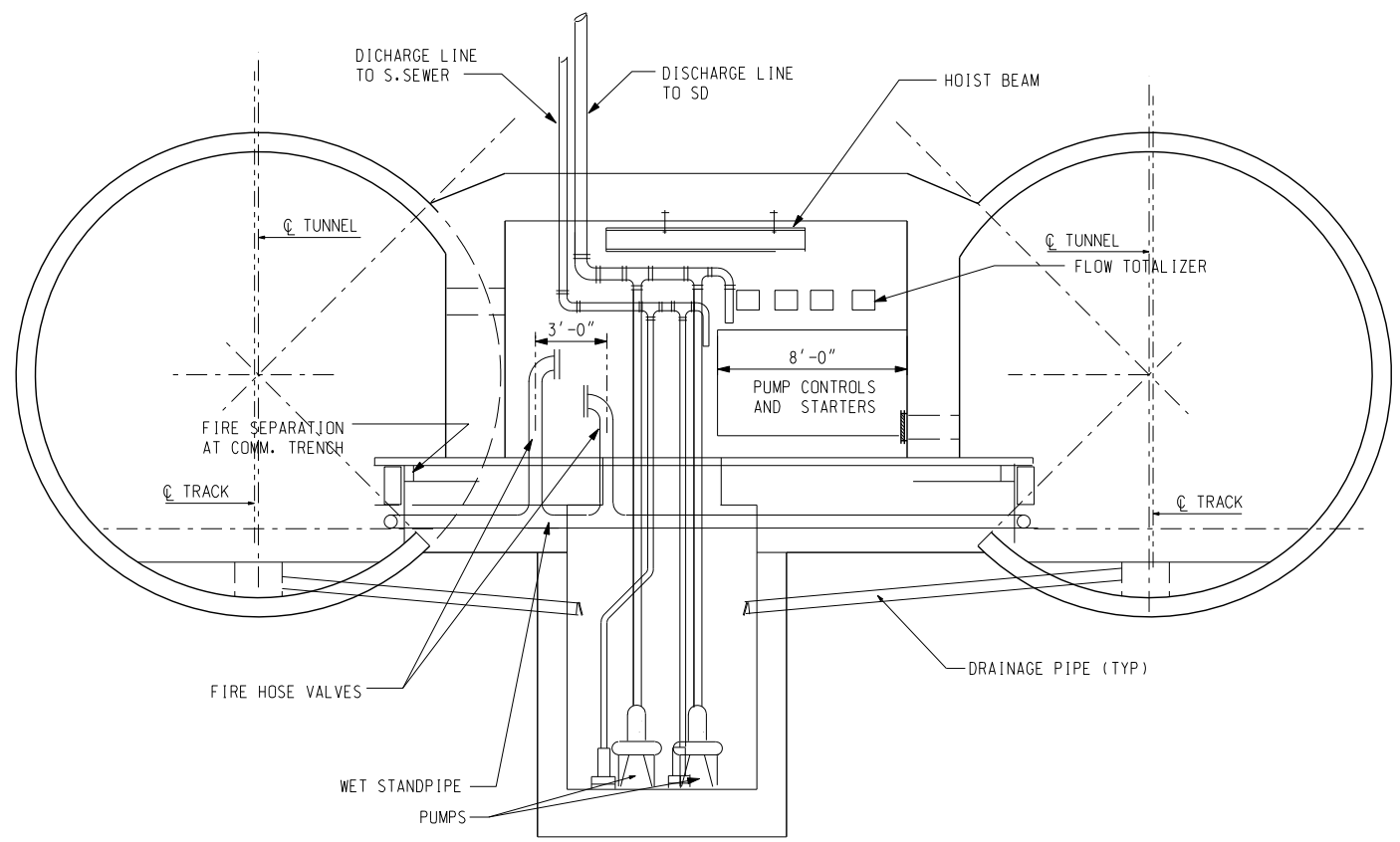
**LOS ANGELES COUNTY  
METROPOLITAN TRANSPORTATION AUTHORITY**

PROJECT MANAGER \_\_\_\_\_

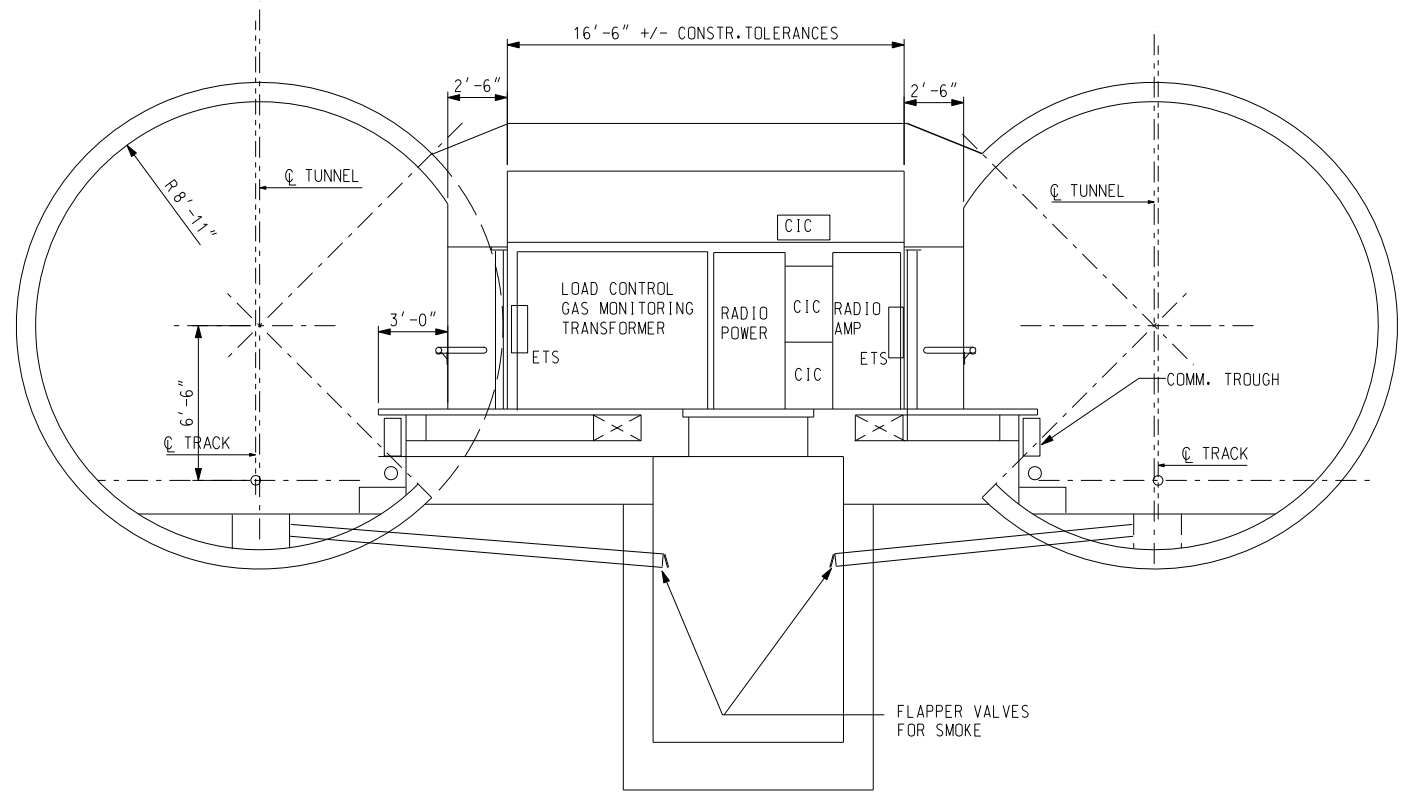
**WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING**

CROSSPASSAGE AND SUMP  
SHEET 1 OF 2

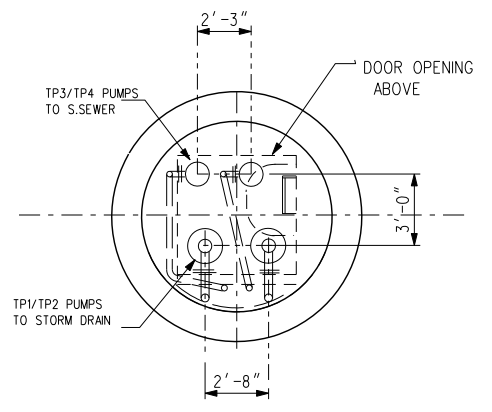
CONTRACT NO	
DRAWING NO Y-016	REV
SCALE 1/4" = 1'	
SHEET NO	



ELEVATION AT  
WSP & PUMP CTRL CABINETS



ELEVATION AT  
COMM & POWER CABINETS



SUMP PLAN AT PUMPS

DESIGNED BY							
DRAWN BY							
CHECKED BY							
IN CHARGE							
DATE	JULY 2010						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION



LOS ANGELES COUNTY  
METROPOLITAN TRANSPORTATION AUTHORITY

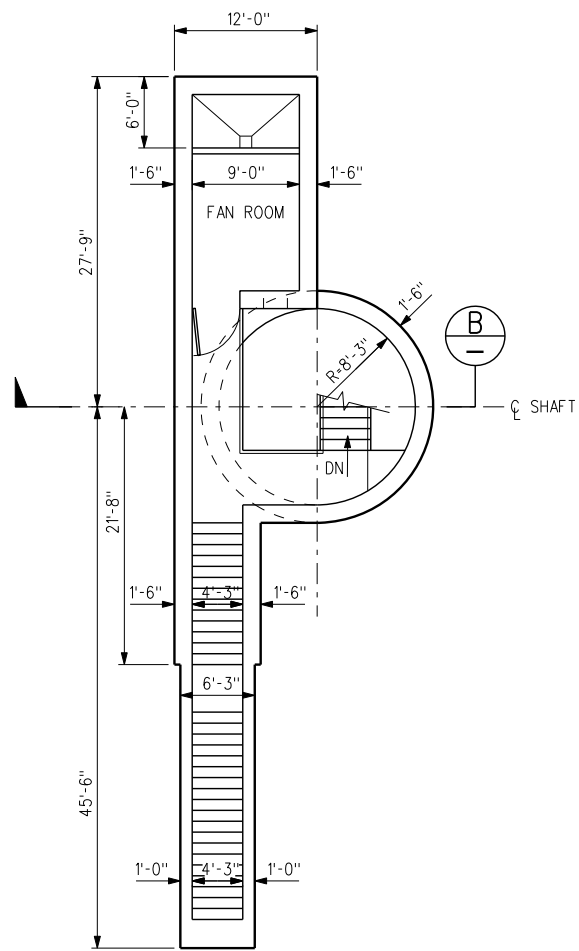
PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING

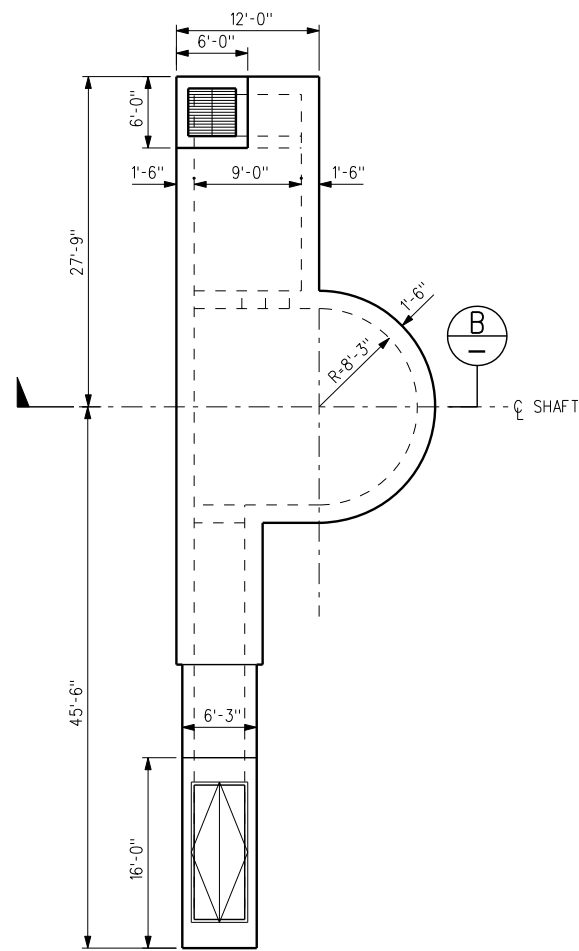
CROSSPASSAGE AND SUMP  
SHEET 2 OF 2

CONTRACT NO	
DRAWING NO	Y-017
SCALE	1/4" = 1'
SHEET NO	

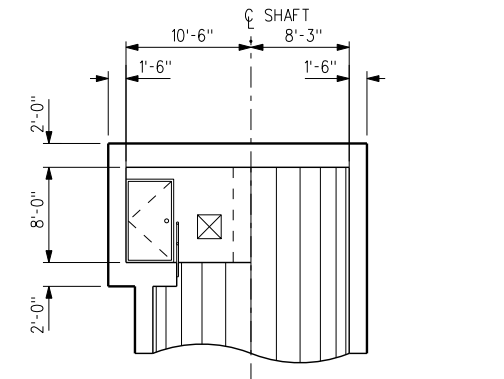
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PLAN AT FAN ROOM LEVEL

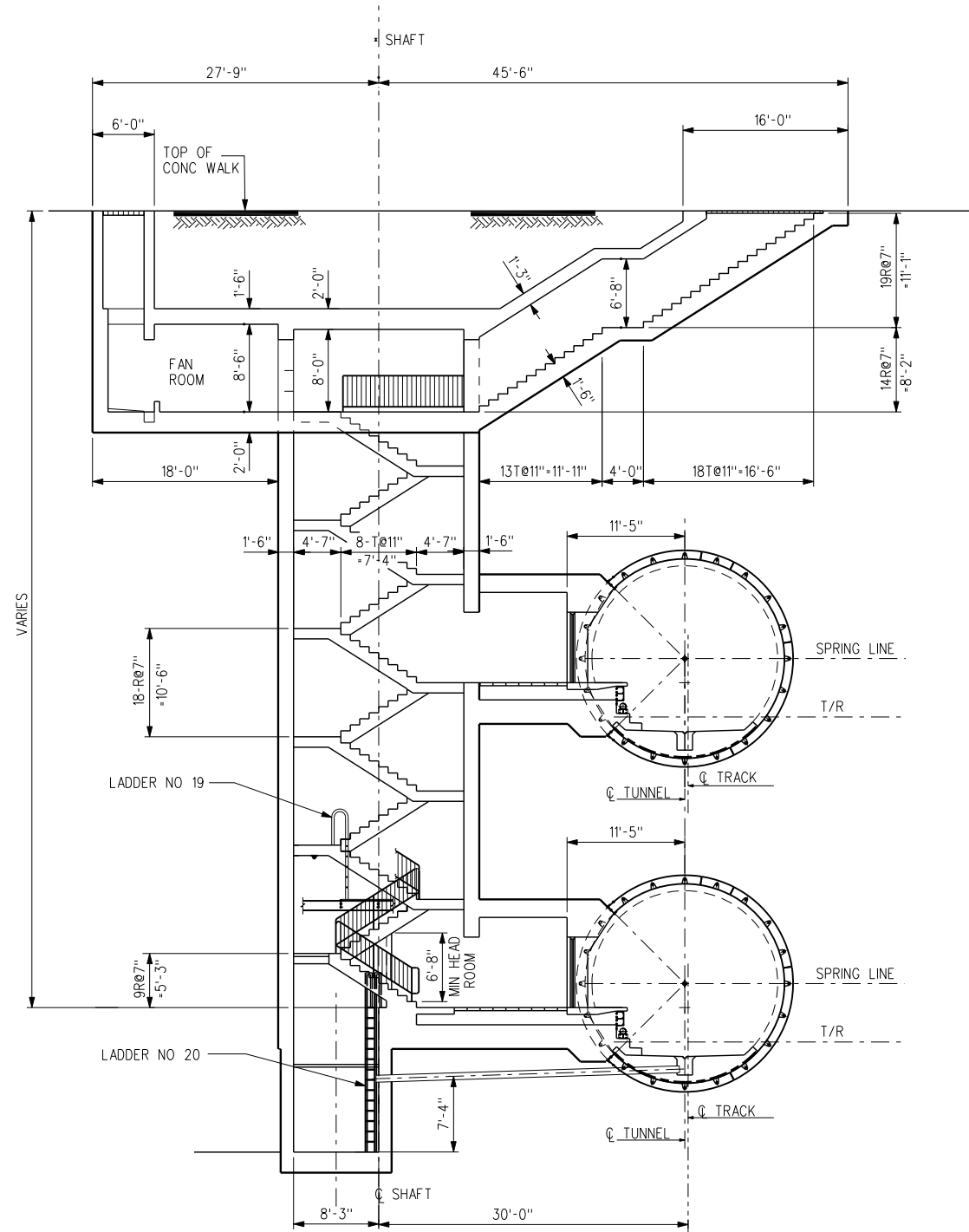


PLAN AT STREET LEVEL



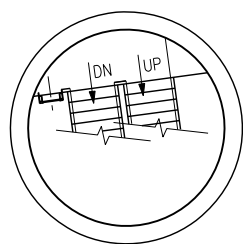
SECTION

B  
Y-018

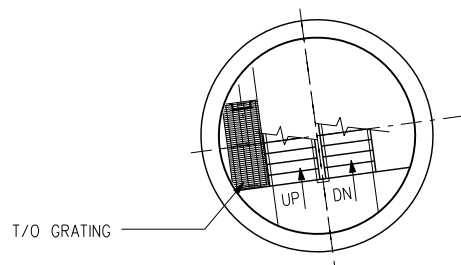


SECTION

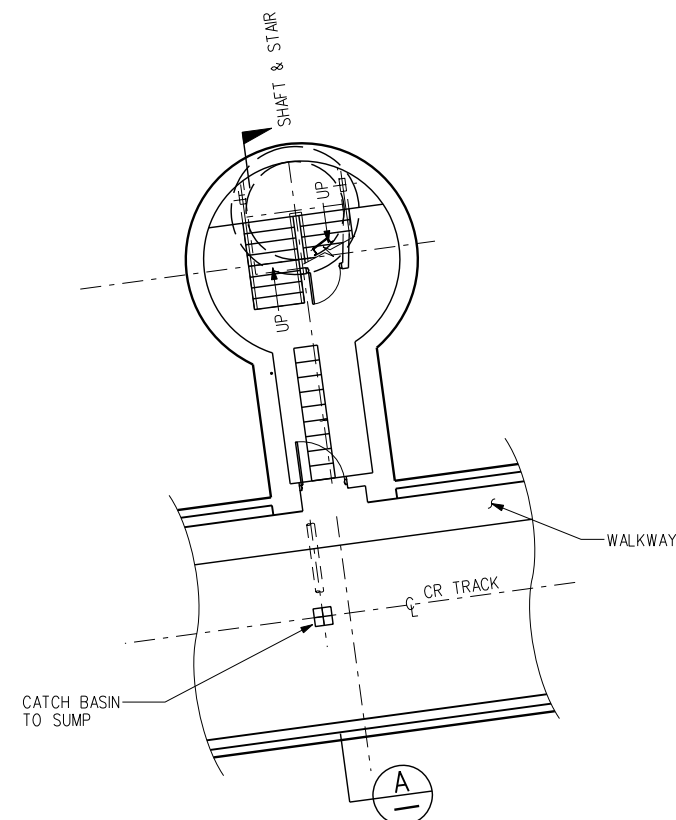
A  
Y-018



PLAN AT PLATF



PLAN AT PLATF



PLAN AT WALKWAY

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	JULY 2010



**Metro**

LOS ANGELES COUNTY  
METROPOLITAN TRANSPORTATION AUTHORITY

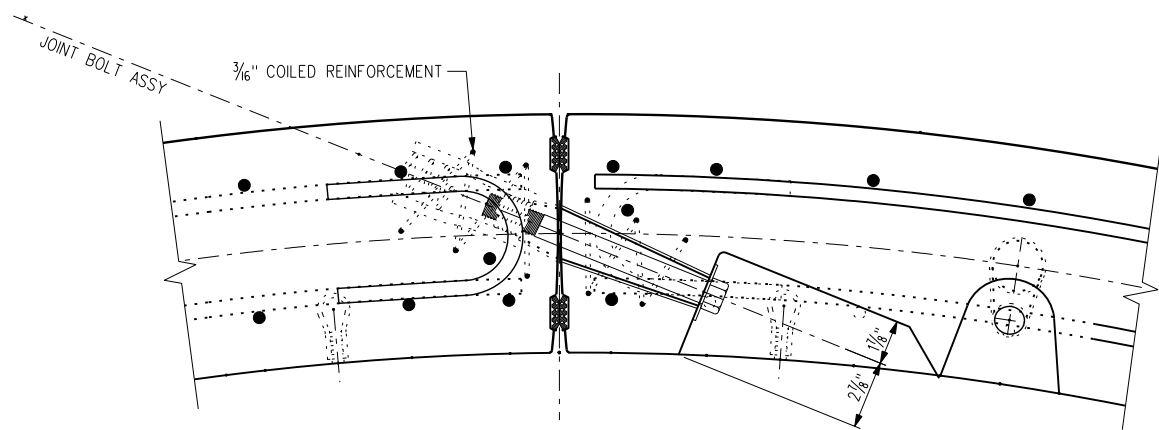
PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING

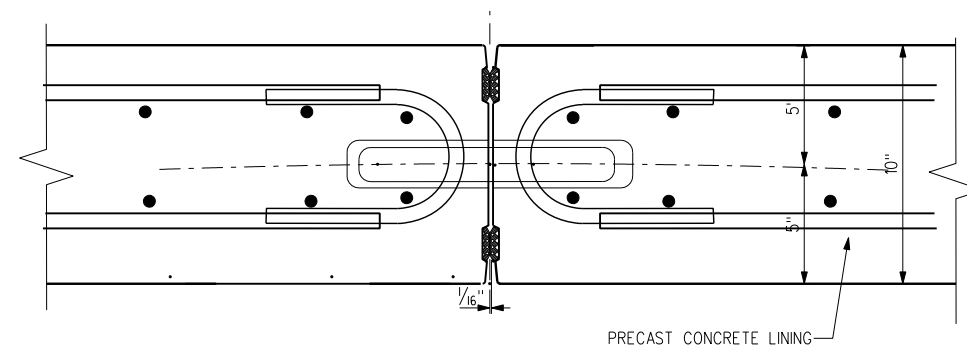
VERTICAL CROSSPASSAGE  
AND EMERGENCY EXIT

CONTRACT NO	
DRAWING NO	Y-018
SCALE	1/8" = 1'-0"
SHEET NO	






**RADIAL JOINT DETAIL**  
3"=1'-0"



**CIRCUMFERENTIAL JOINT SECTION**  
3"=1'-0"

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE JULY 2010



**Metro**

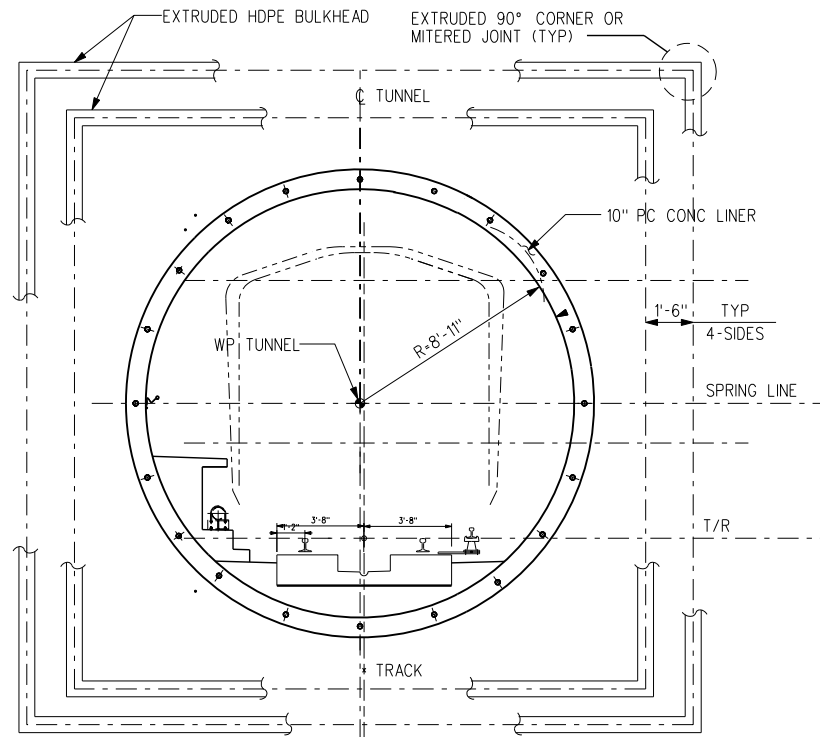
**LOS ANGELES COUNTY  
METROPOLITAN TRANSPORTATION AUTHORITY**

PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING

PRECAST CONCRETE LINING  
JOINT DETAILS

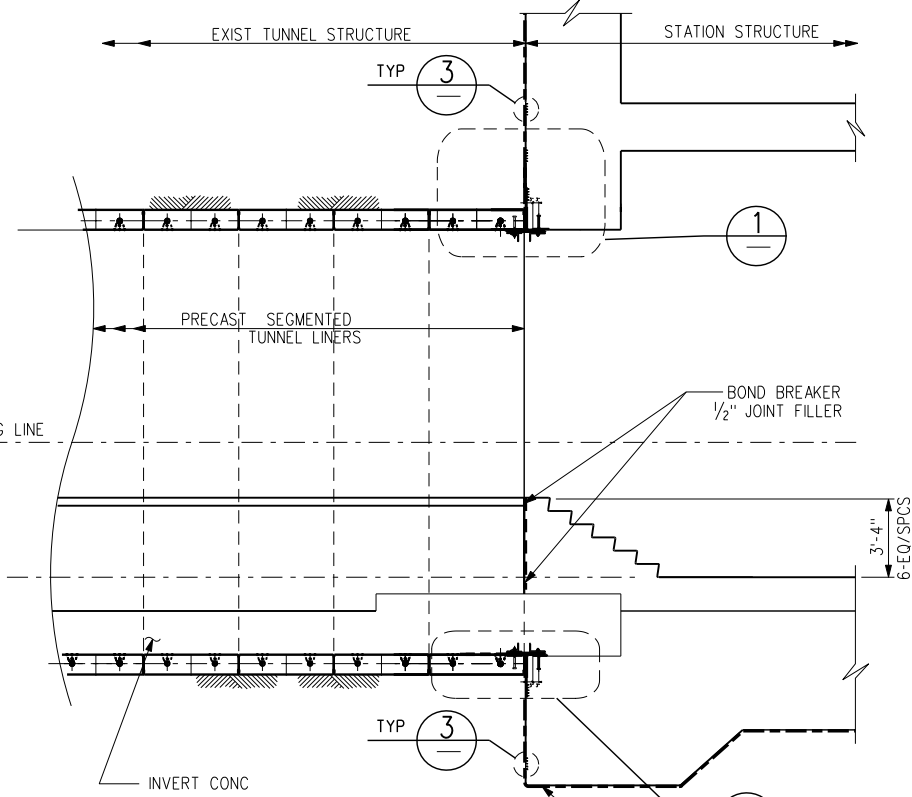
CONTRACT NO	
DRAWING NO Y-019	REV
SCALE 3" = 1' - 0"	
SHEET NO	



SECTION

1/4"=1'-0"

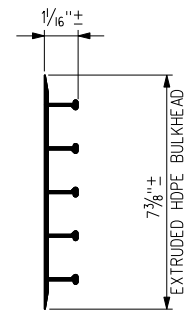
A  
Y-022



PRECAST TUNNEL LINING SECTION

1/4"=1'-0"

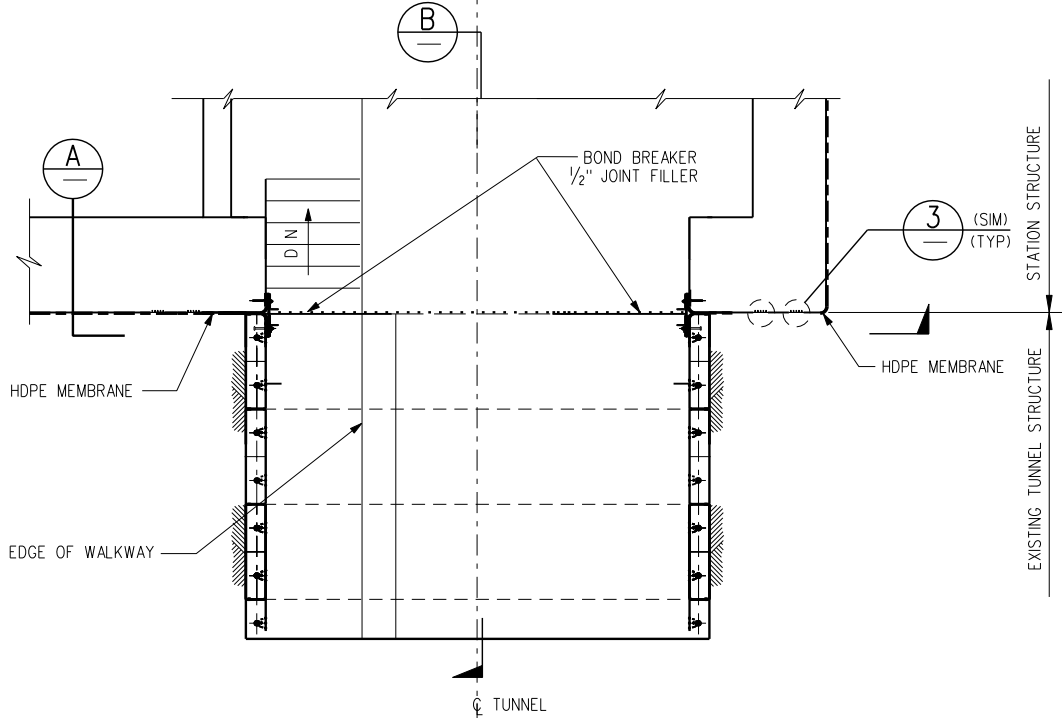
B  
Y-022



DETAIL 3

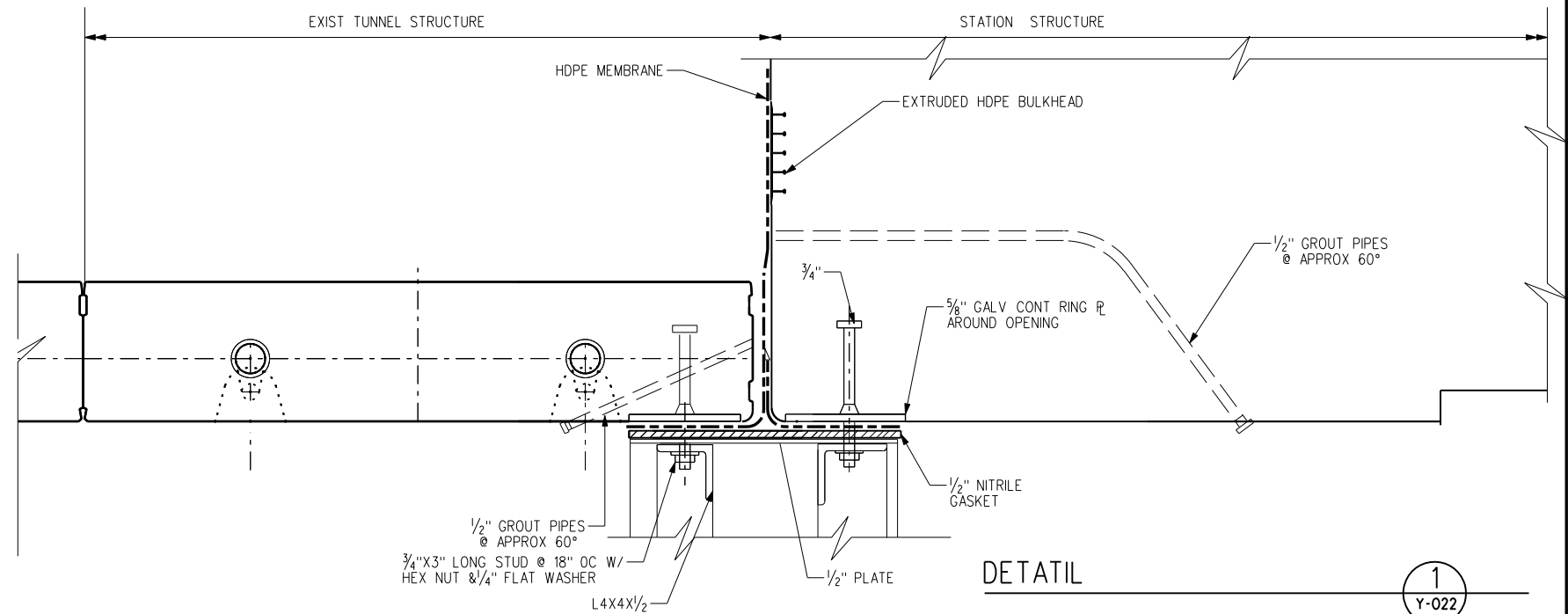
NO SCALE

Y-022



PLAN AT INTERFACE

1/4"=1'-0"



DETAIL 1

Y-022

DESIGNED BY							
DRAWN BY							
CHECKED BY							
IN CHARGE							
DATE	JULY 2010						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION



Metro

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

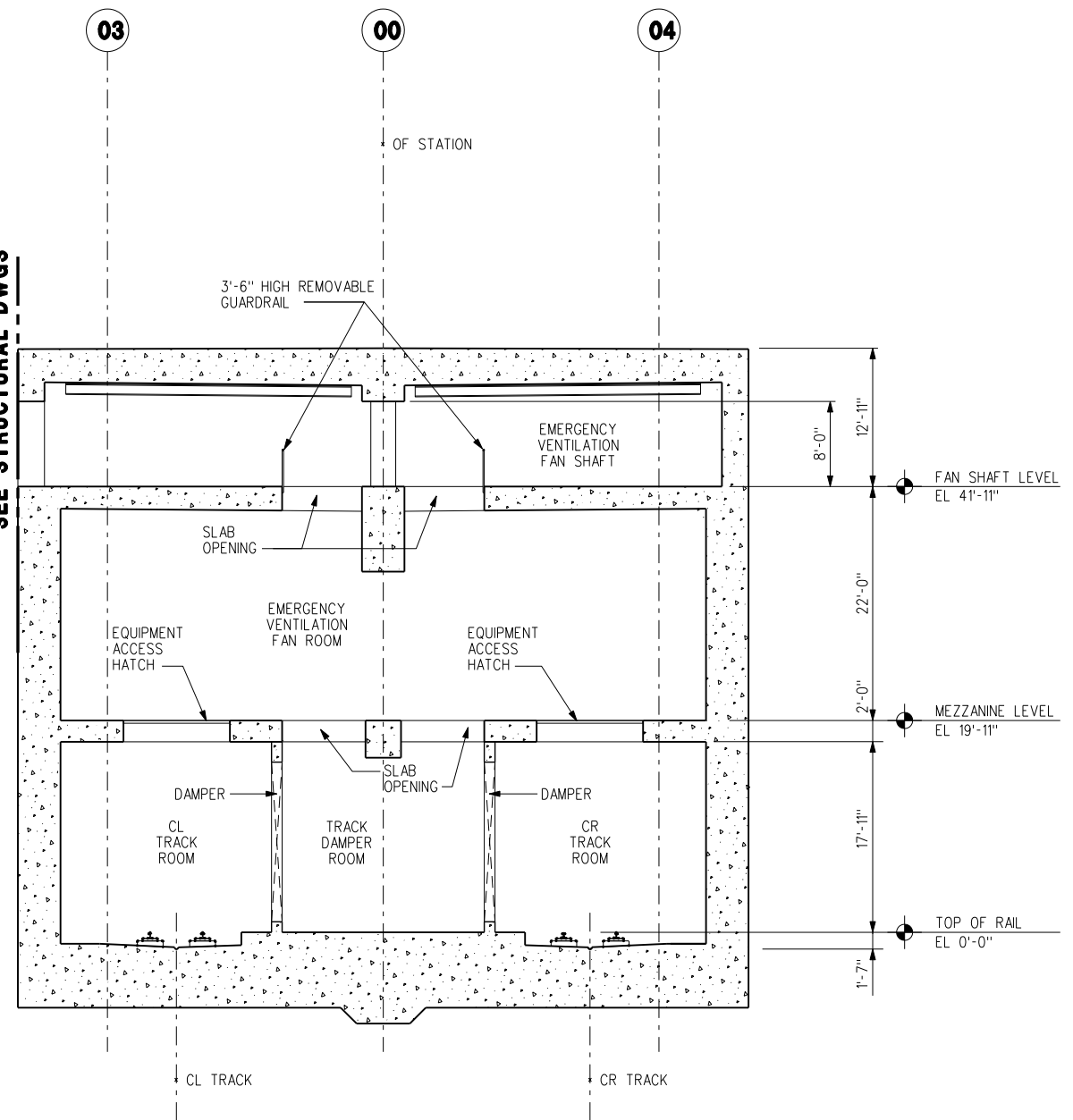
PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING

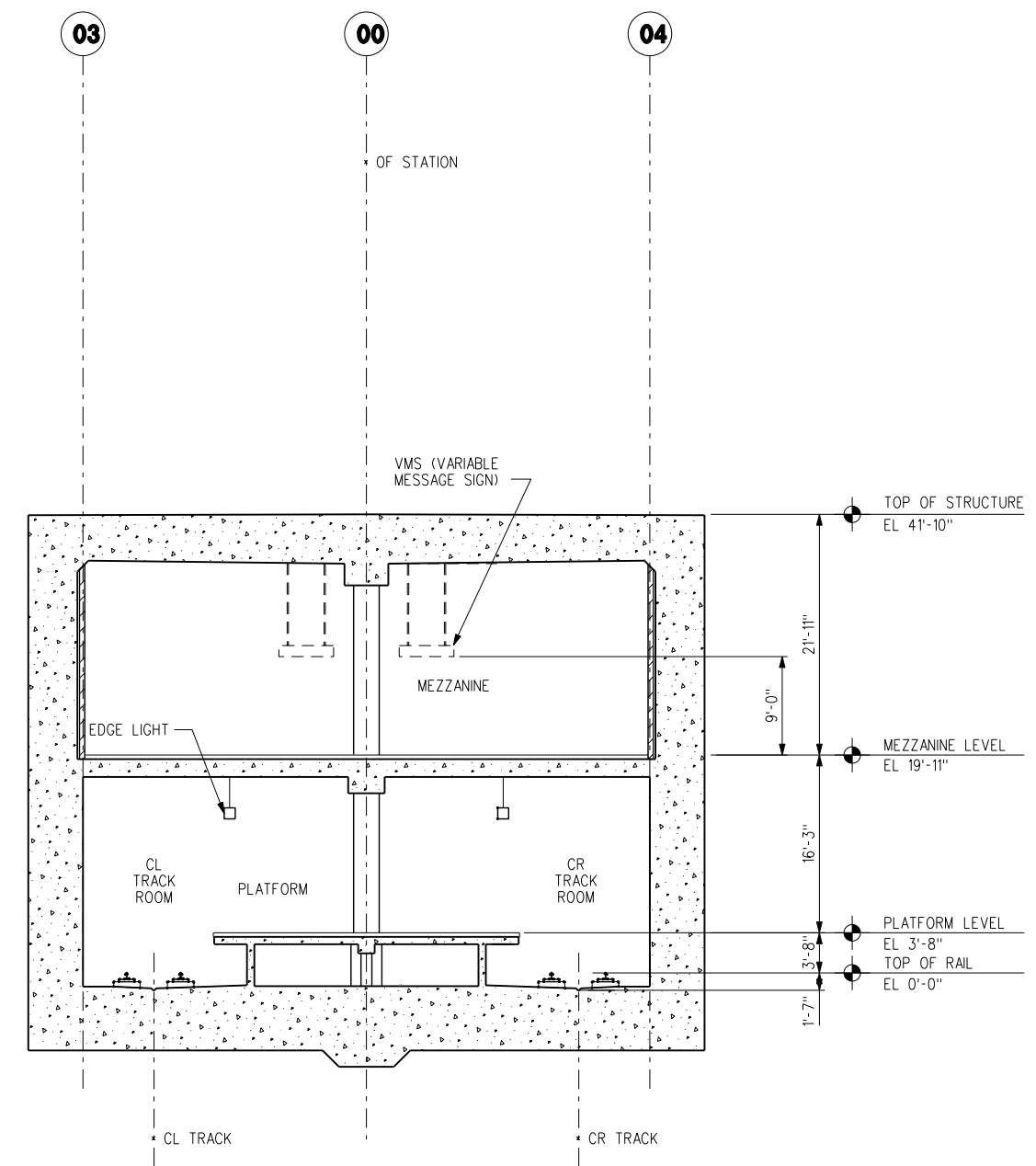
TUNNEL/STATION INTERFACE

CONTRACT NO	
DRAWING NO	Y-022
SCALE	
SHEET NO	

FOR CONTINUATION  
SEE STRUCTURAL DWGS




SECTION AT EQUIPMENT ROOMS



SECTION AT PLATFORM

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	JULY 2010



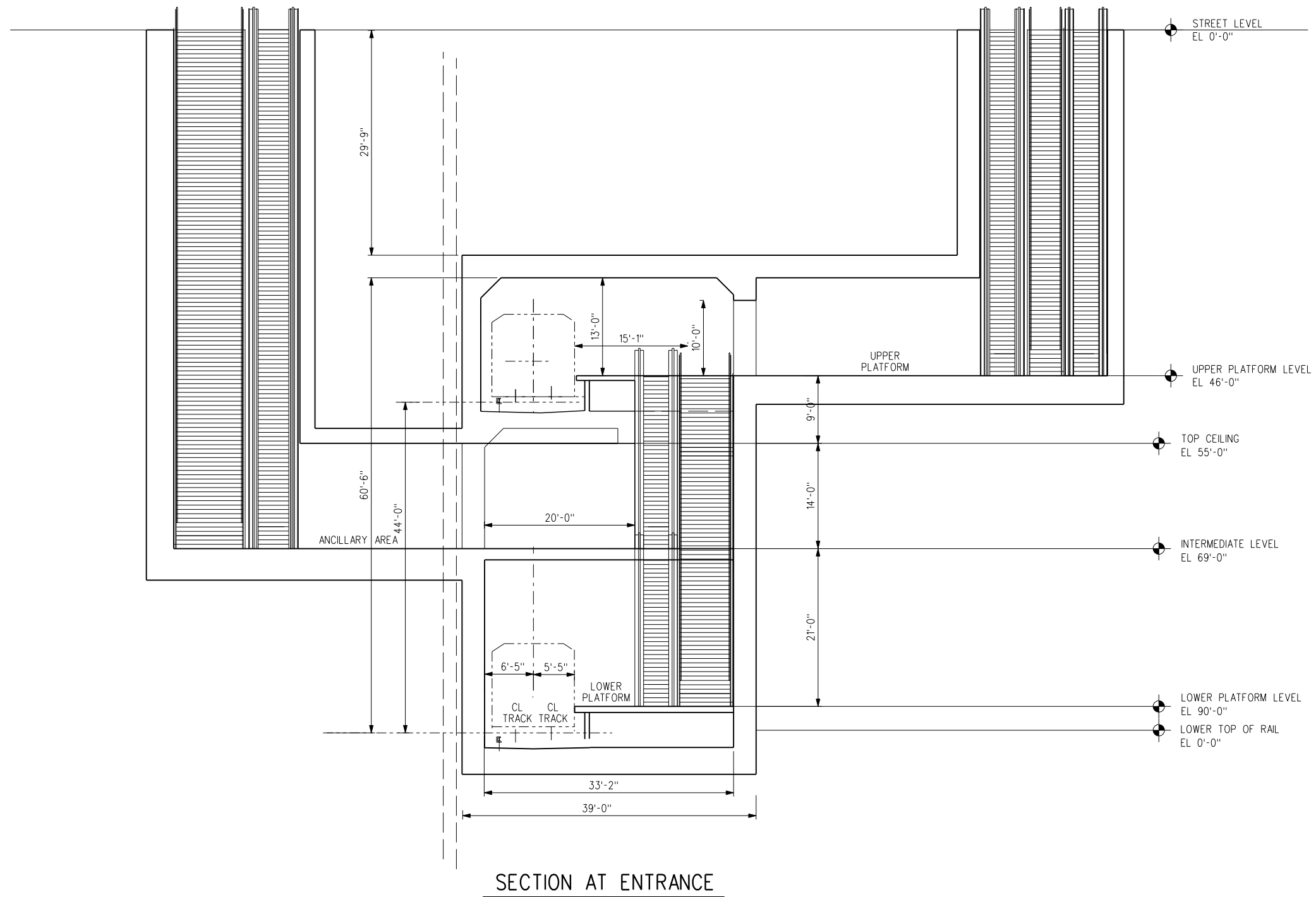
**LOS ANGELES COUNTY  
METROPOLITAN TRANSPORTATION AUTHORITY**

PROJECT MANAGER \_\_\_\_\_

**WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING**

STATION CROSS SECTION

CONTRACT NO	
DRAWING NO	REV
Y-023	
SCALE	
1/8" = 1'-0"	
SHEET NO	



SECTION AT ENTRANCE

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY  
 DRAWN BY  
 CHECKED BY  
 IN CHARGE  
 DATE  
 JULY 2010



**Metro**

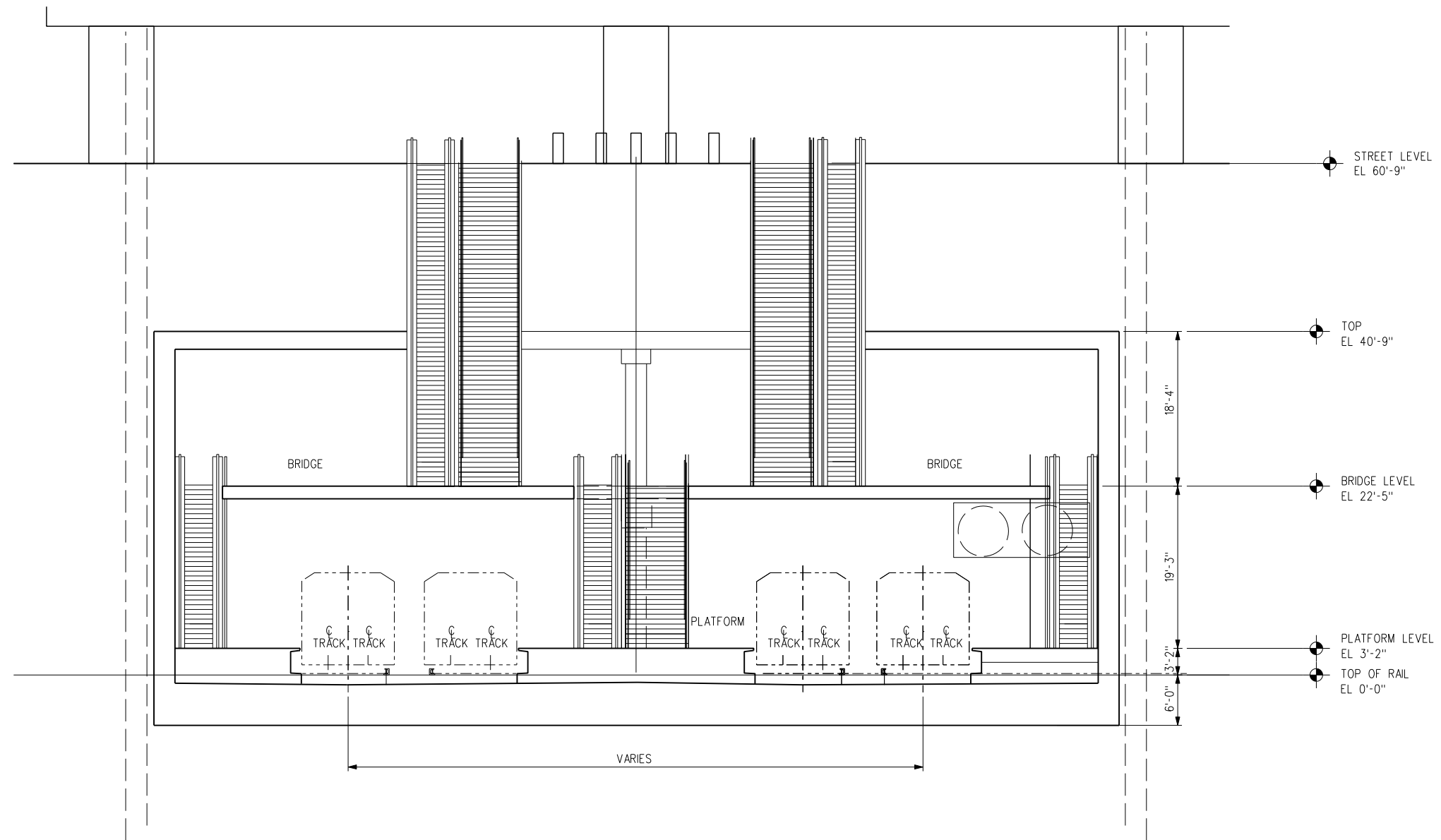
**LOS ANGELES COUNTY  
 METROPOLITAN TRANSPORTATION AUTHORITY**

PROJECT MANAGER \_\_\_\_\_

**WESTSIDE SUBWAY EXTENSION  
 ADV. CONCEPTUAL ENGINEERING**

OVER AND UNDER  
 TUNNEL / STATION CROSS SECTION  
 WILSHIRE/LA CIENEGA WITH TRANSFER

CONTRACT NO	
DRAWING NO	REV
Y-024	
SCALE	
SHEET NO	



SECTION AT PLATFORM

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY  
 DRAWN BY  
 CHECKED BY  
 IN CHARGE  
 DATE  
 JULY 2010



**Metro**

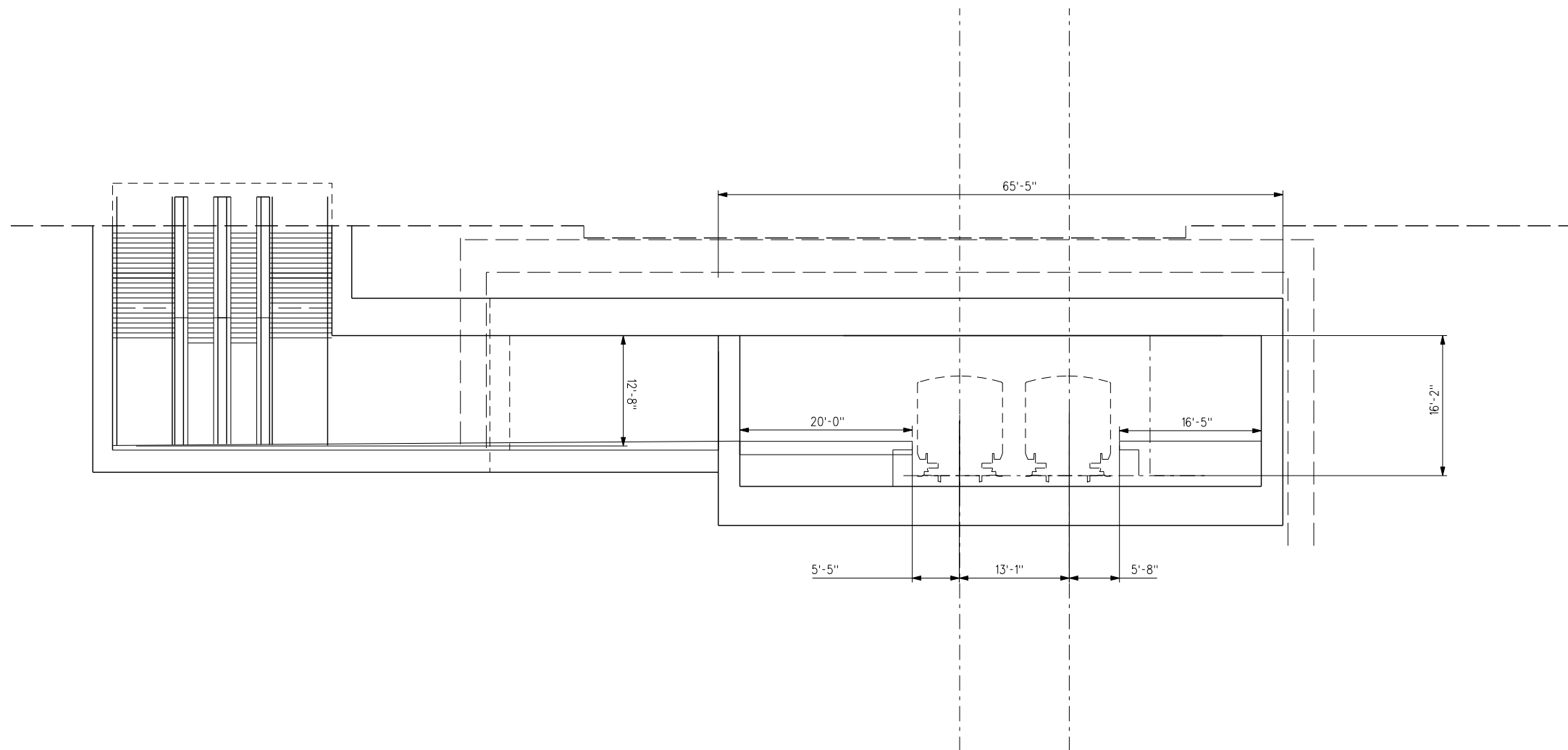
**LOS ANGELES COUNTY  
 METROPOLITAN TRANSPORTATION AUTHORITY**

PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
 ADV. CONCEPTUAL ENGINEERING

STATION CROSS SECTION  
 WESTWOOD/VA STATION

CONTRACT NO	
DRAWING NO	REV
Y-025.1	
SCALE	
SHEET NO	



SECTION AT PLATFORM

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY  
 DRAWN BY  
 CHECKED BY  
 IN CHARGE  
 DATE  
 JULY 2010



**Metro**

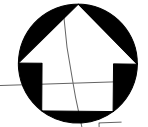
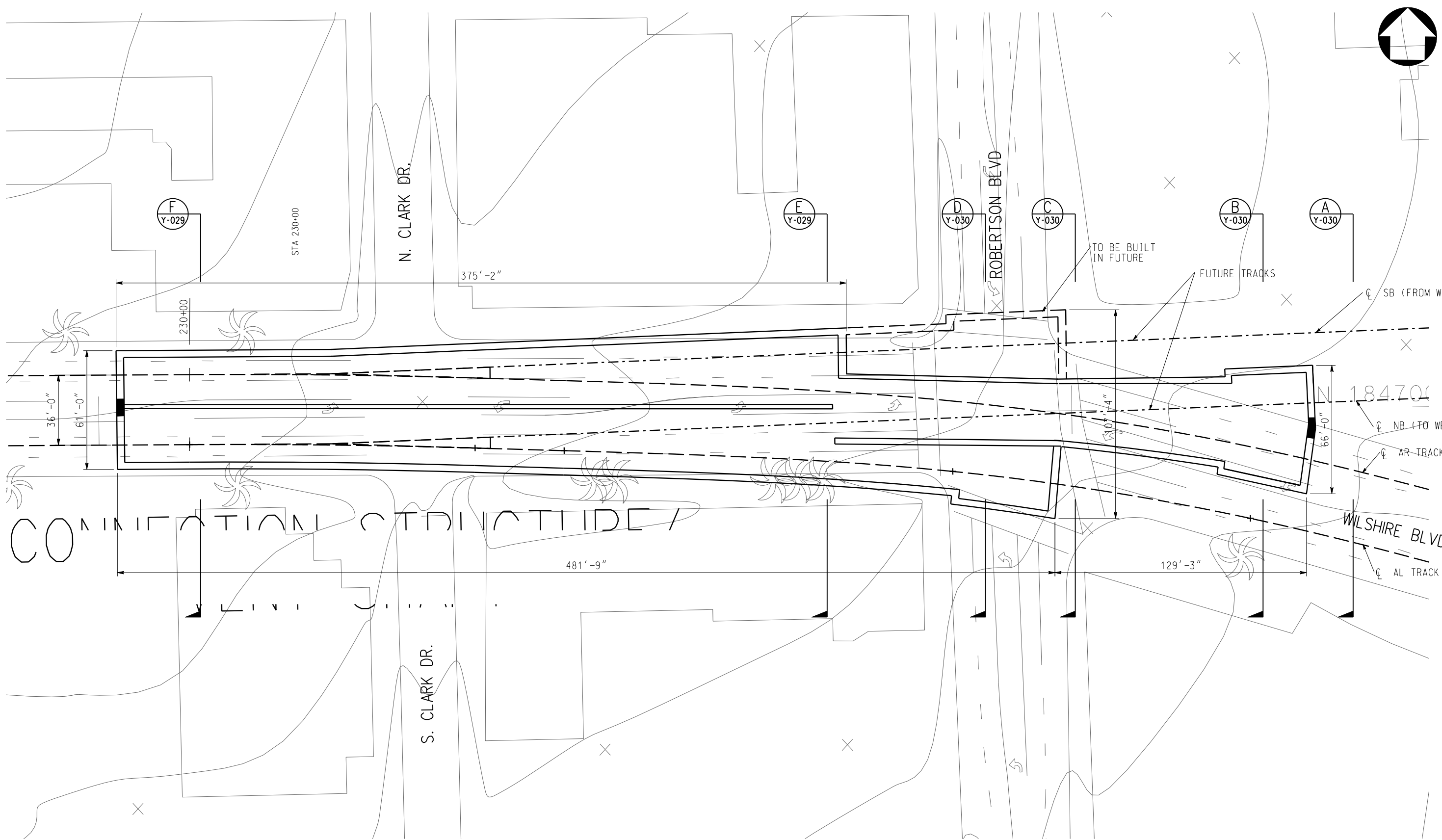
**LOS ANGELES COUNTY  
 METROPOLITAN TRANSPORTATION AUTHORITY**

PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
 ADV. CONCEPTUAL ENGINEERING

STATION CROSS SECTION  
 AT HOLLYWOOD/HIGHLAND


CONTRACT NO	
DRAWING NO	REV
Y-025.2	
SCALE	
SHEET NO	



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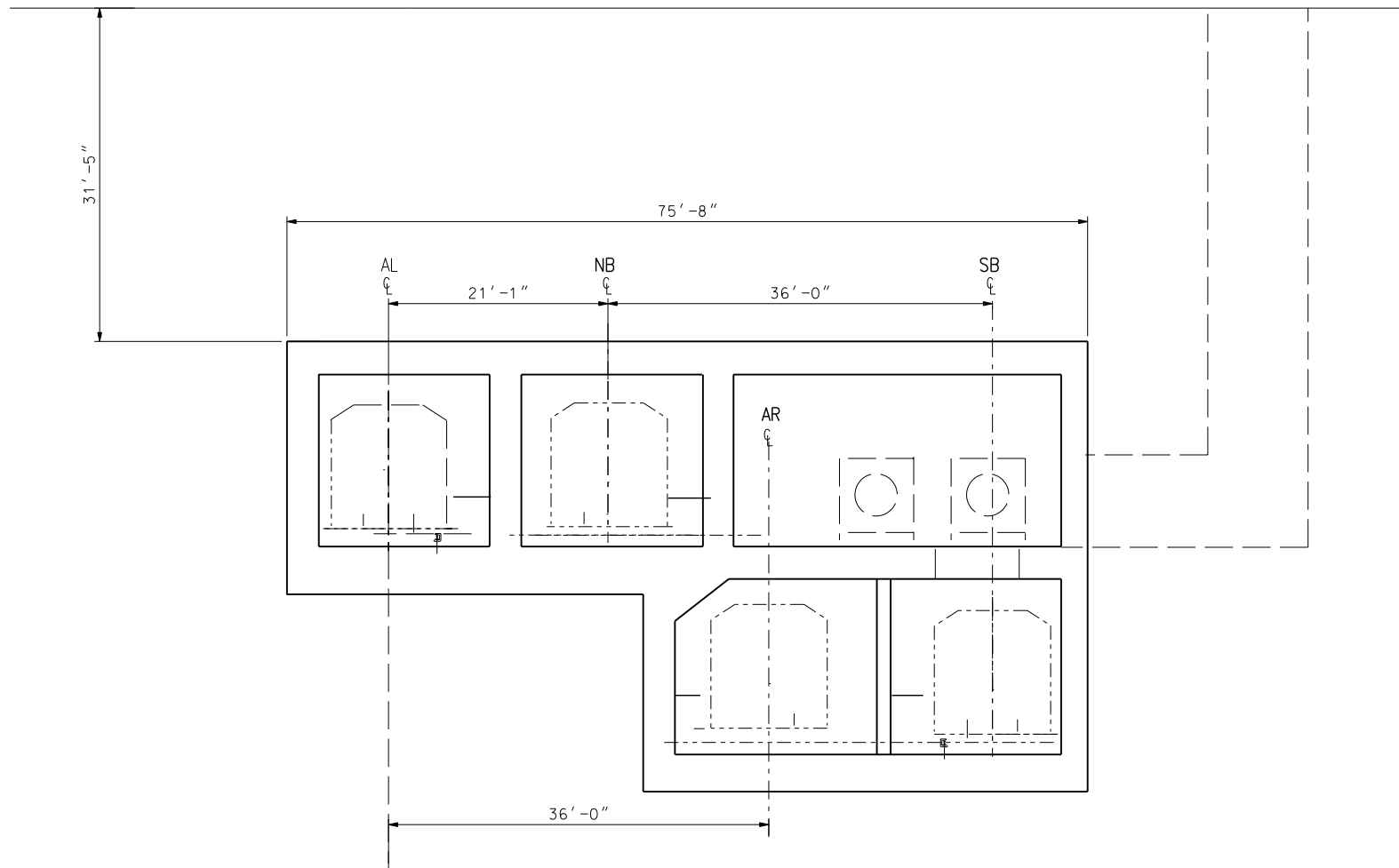
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE JULY 2010


**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**  
 Metro  
 PROJECT MANAGER \_\_\_\_\_

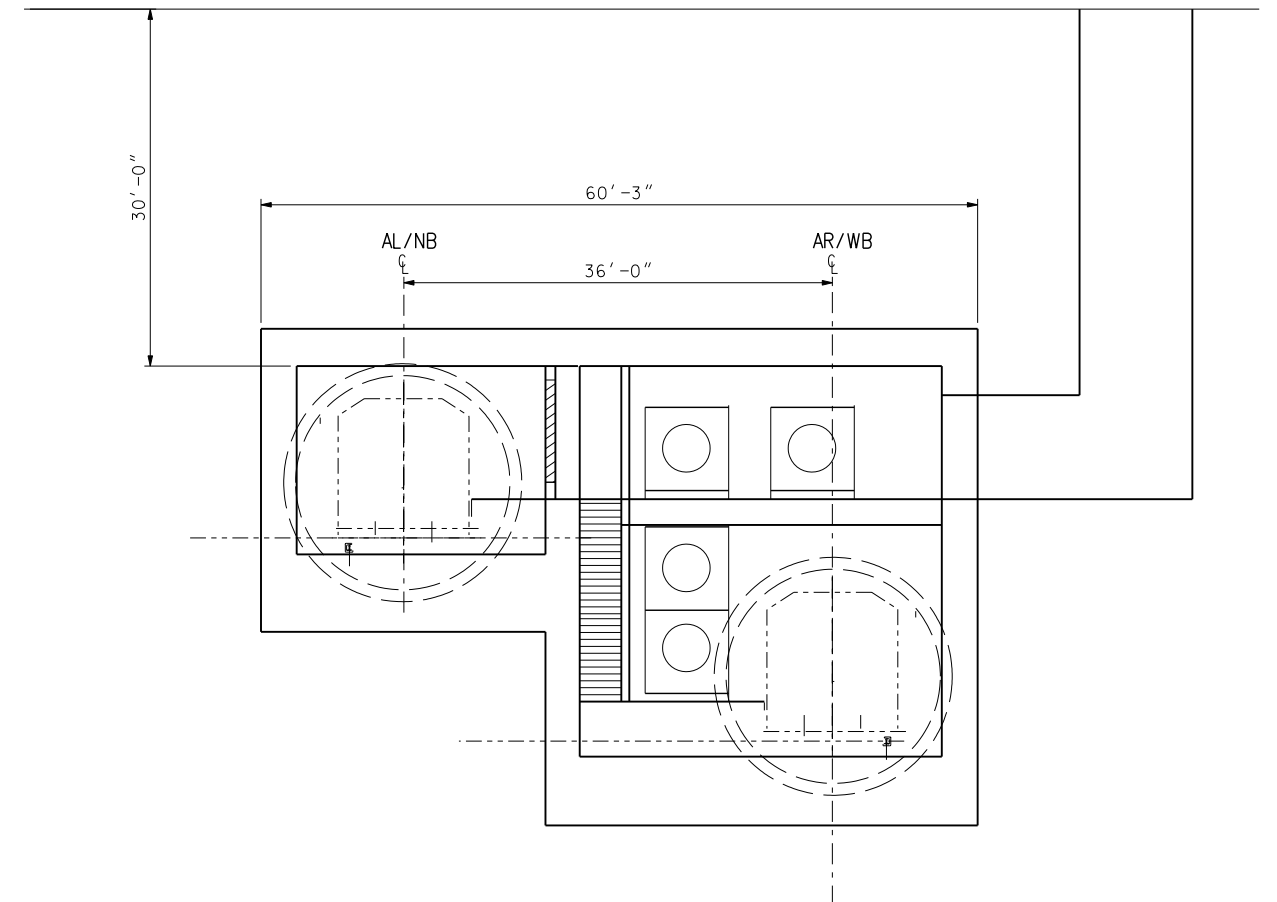
**WESTSIDE SUBWAY EXTENSION**  
**ADV. CONCEPTUAL ENGINEERING**  
 CONNECTION STRUCTURE/VENT SHAFT  
 PLAN

CONTRACT NO	
DRAWING NO Y-028	REV
SCALE NTS	
SHEET NO	



SECTION

E  
Y-028



SECTION

F  
Y-028

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE JULY 2010



**Metro**

**LOS ANGELES COUNTY  
METROPOLITAN TRANSPORTATION AUTHORITY**

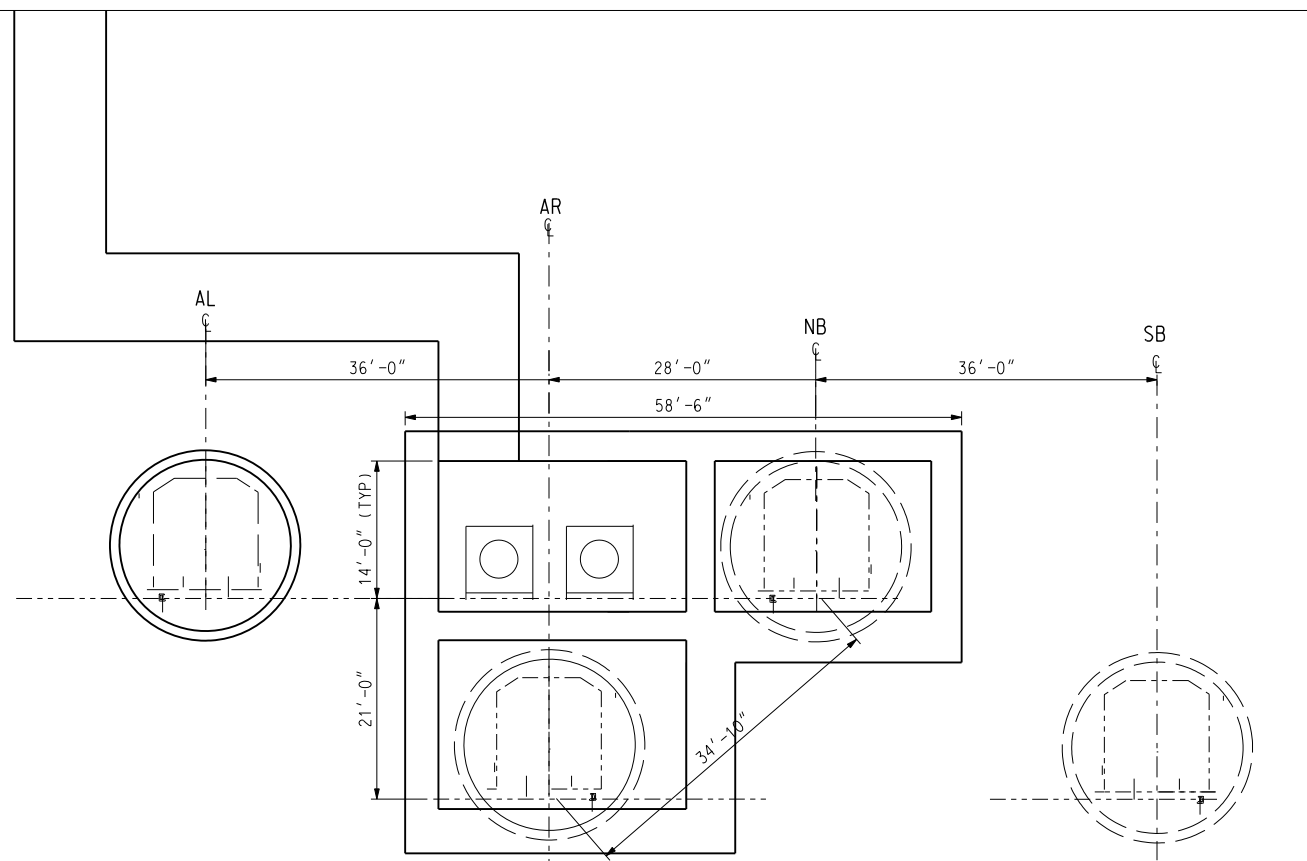
PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING

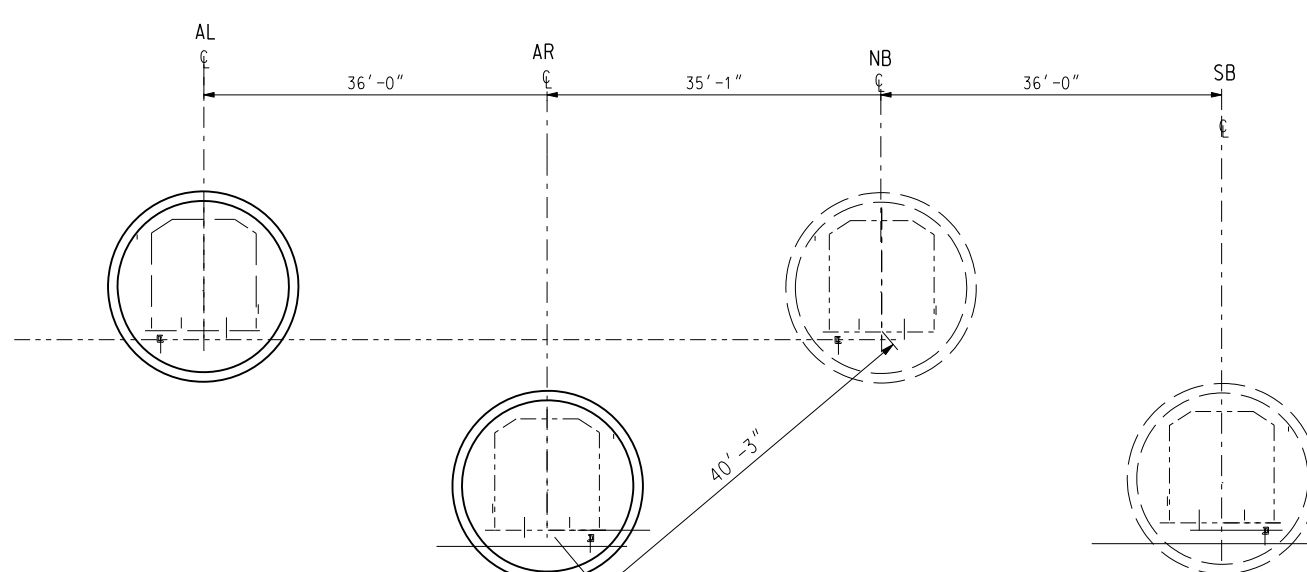
CONNECTION STRUCTURE  
SECTIONS  
SHEET 1 OF 2

CONTRACT NO
DRAWING NO Y-029
SCALE
SHEET NO

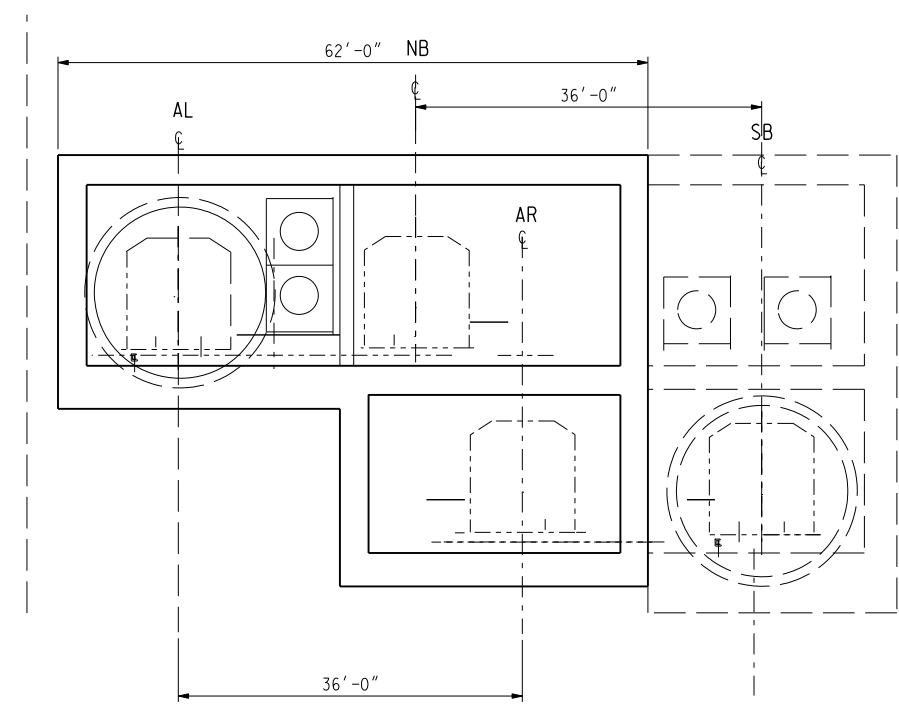




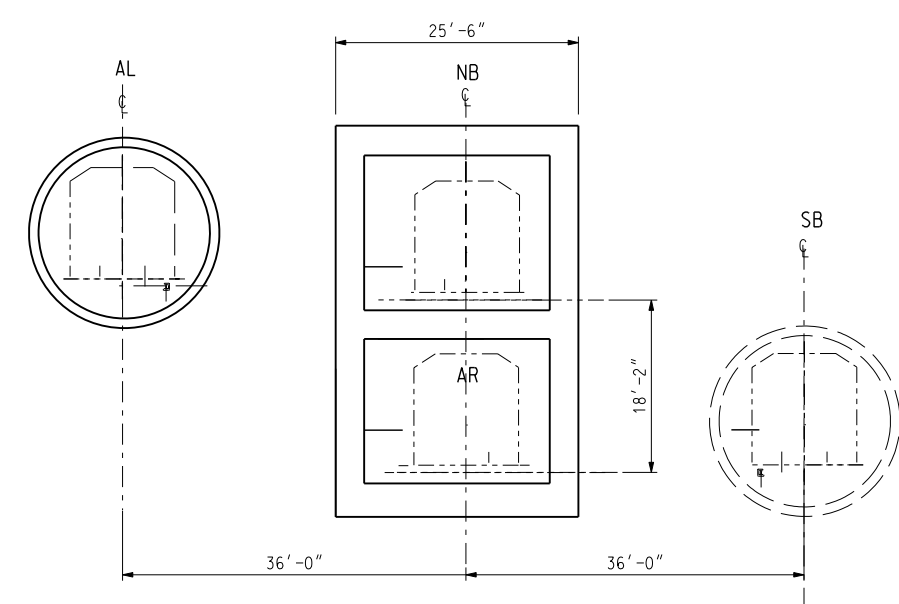
SECTION B  
Y-028



SECTION A  
Y-028



SECTION D  
Y-028



SECTION C  
Y-028

NOTE:  
NB AND SB ARE FUTURE WE-HO TRACKS

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE JULY 2010

**M** **Metro**

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

PROJECT MANAGER \_\_\_\_\_

WESTSIDE SUBWAY EXTENSION  
ADV. CONCEPTUAL ENGINEERING

CONNECTION STRUCTURE  
SECTIONS  
SHEET 2 OF 2

CONTRACT NO	
DRAWING NO Y-030	REV
SCALE	
SHEET NO	