

Metro

Union/Patsaouras Plaza Busway Station

Design Build Contract No. C0970

Advanced Conceptual Engineering

Volume III – Project Definition Documents – Technical Documents

Preliminary Engineering Drawings

Issued for bid May 7, 2012



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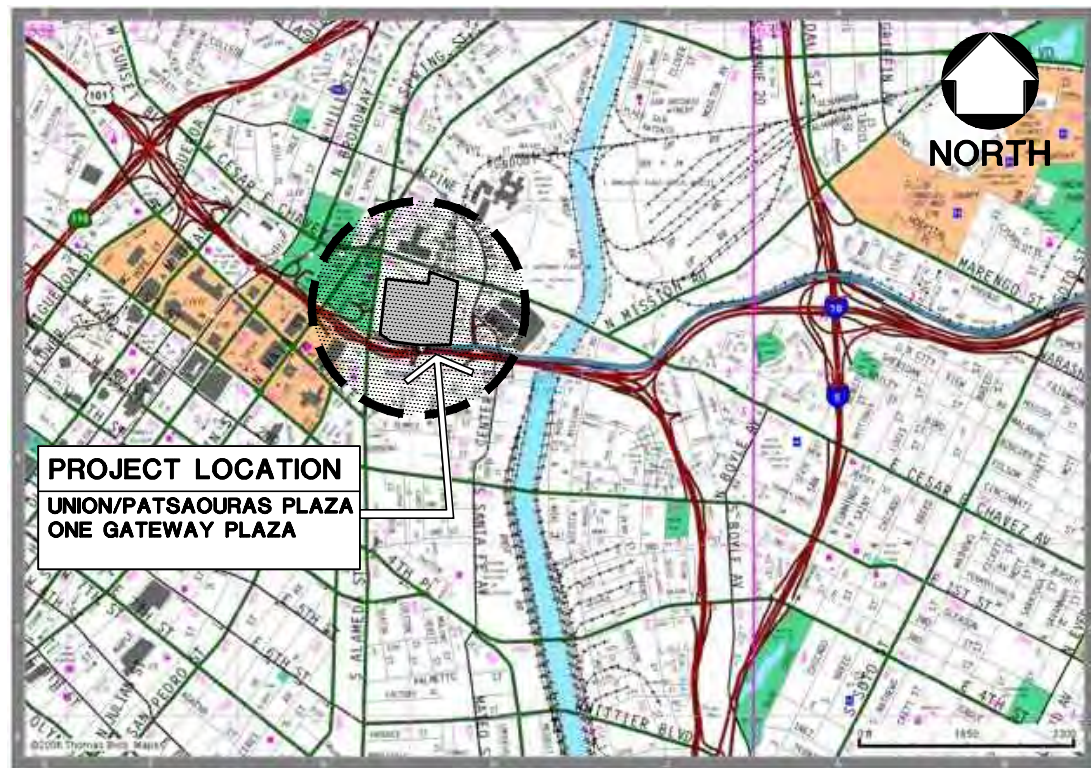
LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

UNION/PATSAOURAS PLAZA BUSWAY STATION

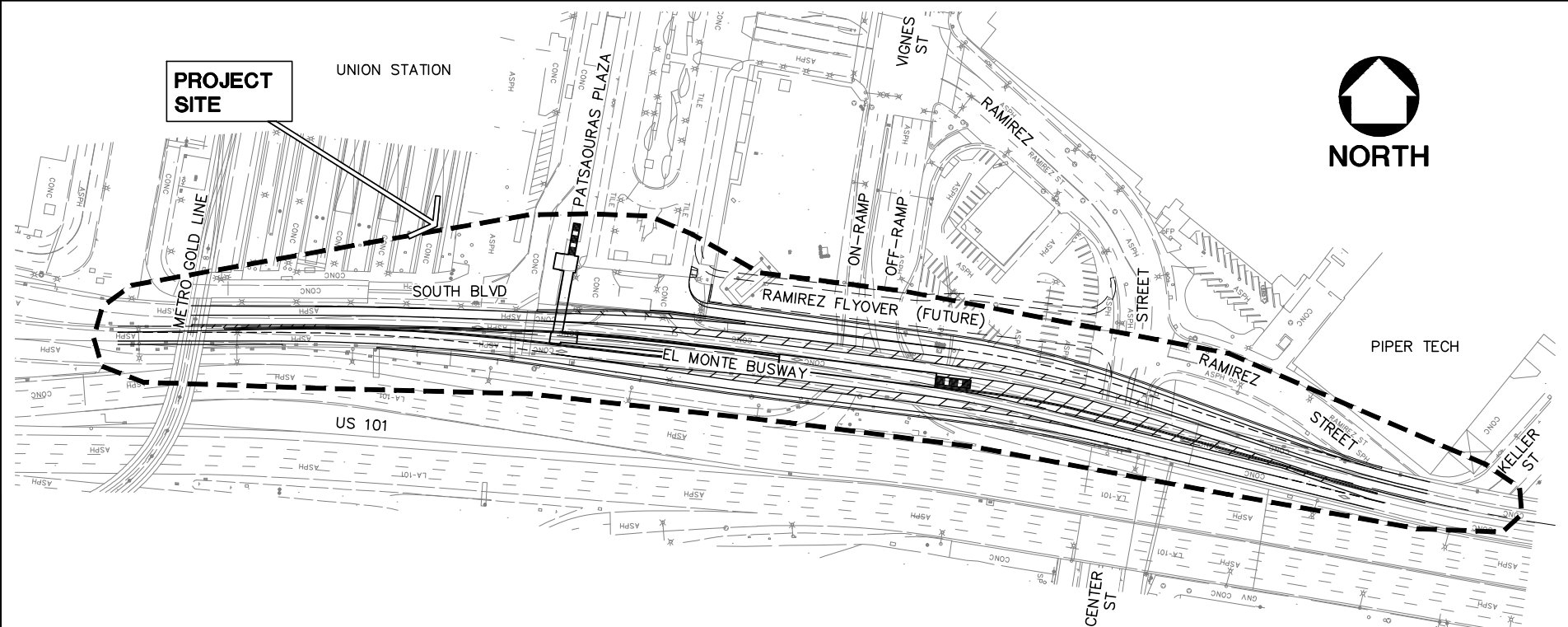
DESIGN BUILD CONTRACT No. C0970

NOT FOR CONSTRUCTION

VICINITY MAP NO SCALE



SITE PLAN NO SCALE



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				ISSUED FOR BID
10/15/10				ADVANCED CONCEPTUAL ENGINEERING

STV
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DATE	4/8/2011

M LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

Metro

RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION DESIGN BUILD CONTRACT No. C0970	FILE/JOB NUMBER C0970
PROJECT TITLE, VICINITY MAP AND SITE PLAN	SCALE AS NOTED
	DWG. NO. T-01
	SHEET 1 OF 80

Drawing Name: I:\Projects\4014653_0001\Drawings\STA\GEN\T-01.dwg Plot Date: Apr 25, 2012 3:03pm by: partmen

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INDEX OF DRAWINGS	SCALE NONE
	DWG. NO. T-02
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Drawing Name: I:\Projects\4014653\4014653_0001\Drawings\SIB\GEN\I-02.dwg Plotter: Apr 25, 2012 - 3:09pm by: partnrm

ABBREVIATIONS

HORIZONTAL ALIGNMENT

BC	BEGINNING OF CURVE
CS	CIRCULAR CURVE TO SPIRAL
PC	POINT OF CIRCULAR CURVE
PI	POINT OF INTERSECTION OF TWO TANGENTS
EC	END OF CURVE
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
	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
Ls IN	LENGTH OF SPIRAL IN
Ls OUT	LENGTH OF SPIRAL OUT
LT	LONG TANGENT
P	OFFSET DISTANCE FROM TANGENT TO PC, SPIRAL THROW
POB	POINT OF BEGINNING
POE	POINT OF ENDING
POS	POINT ON SPIRAL
POT or PT	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
OS	SPIRAL ANGLE
X	TANGENT DISTANCE FROM TS TO SC OR ST TO CS
Y	TANGENT OFFSET TO SC OR CS
PRC	POINT OF REVERSE CIRCULAR CURVE

VERTICAL ALIGNMENT

HI	HIGHEST POINT OF VERTICAL CURVE
LO	LOWEST POINT OF VERTICAL CURVE
VC	VERTICAL CURVE
BVC	BEGINNING OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
EVC	END OF VERTICAL CURVE
PVRC	POINT OF VERTICAL REVERSE CURVE
PVC	POINT OF VERTICAL CURVE
PVT	POINT ON VERTICAL TANGENT
LVC	LENGTH OF VERTICAL CURVE
MO	MIDDLE ORDINATE
G1	GRADE IN (TO VERTICAL CURVE)
G2	GRADE OUT (TO VERTICAL CURVE)
LPNT	LOW POINT

UTILITY COMPANY / AGENCY ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ACI	AMERICAN CONCRETE INSTITUTE
AF	U.S. AIR FORCE
ARCO	ATLANTIC RICHFIELD COMPANY (NOW FOUR CORNERS PIPELINE COMPANY)
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AT&T	AMERICAN TELEPHONE AND TELEGRAPH COMPANY
BRS	RED LINE TUNNEL BLAST RELIEF SHAFT
CALTRANS	STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
COLA	CITY OF LOS ANGELES
DWPWS	CITY OF LOS ANGELES, DEPARTMENT OF WATER AND POWER, WATER SERVICES
DWPWS	CITY OF LOS ANGELES, DEPARTMENT OF WATER AND POWER, POWER SERVICES
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
LACDPW	LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
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 DISTRICT
LACTC	LOS ANGELES COUNTY TRANSPORTATION COMMISSION (NOW LACMTA)
LADOT	CITY OF LOS ANGELES, DEPARTMENT OF TRANSPORTATION
LADWP	CITY OF LOS ANGELES, DEPARTMENT OF WATER AND POWER
LAUSD	LOS ANGELES UNIFIED SCHOOL DISTRICT
LAWD	LOS ANGELES WATER DEPARTMENT (NOW DWPWS)
LEVEL 3	LEVEL 3 COMMUNICATIONS
MCI	NEW VERIZON BUSINESS
MTA or METRO	LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
MWD	METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
PUC	PUBLIC UTILITIES COMMISSION
QWEST	QWEST
SBC	SBC CALIFORNIA TELEPHONE
SCE	SOUTHERN CALIFORNIA EDISON COMPANY
SCG	SOUTHERN CALIFORNIA GAS COMPANY (NOW THE GAS COMPANY)
SCWCO	SOUTHERN CALIFORNIA WATER COMPANY
SO PAC P	SOUTHERN PACIFIC PIPELINE COMPANY
SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
SPRINT	SPRINT NEXTEL
STD OIL CO	STANDARD OIL COMPANY OF CALIFORNIA
TGC	THE GAS COMPANY
TM-CATV	TIMES MIRROR CABLE TELEVISION (NOW SIMMONS CABLE TELEVISION)
UBC	UNIFORM BUILDING CODE
UP or UPRR	UNION PACIFIC RAILROAD
USC & GS	UNITED STATES COAST AND GEODETIC SURVEY
WUT	WESTERN UNION TELEGRAPH COMPANY (NOW ATS PART OF MCI)

MISCELLANEOUS

&	AND
@	AT
AB	AGGREGATE BASE
ABAND	ABANDONED
ABS	ACRYLONITRILE-BUTADIENE-STYRENE
ABUT	ABUTMENT
AC	ASPHALT CONCRETE OR ASBESTOS CEMENT OR ALTERNATING CURRENT
ACC	ASPHALT CEMENT CONDUIT
ACD	ASPHALTIC CONCRETE DUCT
ACL	AUXILIARY CONTROL LINE
ACP	ASBESTOS CEMENT PIPE
AGGR	AGGREGATE
AHD	AHEAD
AL	ALUMINUM
ALIGN	ALIGNMENT
APP	APPROVED (REF)
APPROX.,APP	APPROXIMATE OR APPROXIMATELY
APPV	APPROVED
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
AS	AGGREGATE SUB-BASE
ASB	ASBESTOS
ASPH	ASPHALT
AVE	AVENUE
AWG	AMERICAN WIRE GAUGE (GAGE)
A/R	AS REQUIRED
"B1"	BRT LINE DESIGNATION
BB	BILLBOARD OR BEGIN BRIDGE
BCOP	BARE COPPER
BCR	BEGIN CURB RETURN
BEG	BEGIN OR BEGINNING
BF	BOTTOM FACE
BFP	BACKFLOW PREVENTER
BIT	BITUMINOUS
BK	BACK
"BK(X)"	BIKEWAY LINE DESIGNATION
BL	BASELINE, BUILDING LINE, OR BLOCK
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCH MARK
BOC	BOTTOM OF CURB
BOCC	BUS OPERATIONS CONTROL CENTER
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF SLOPE
BRT	BUS RAPID TRANSIT

BSCF	BUSWAY STATION COMMUNICATION FACILITY
BSMT	BASEMENT
BRDG OR BR	BRIDGE
BRG	BEARING
BRK	BRICK
BUR CA	BURIED CABLE
BW	BOTTOM OF WALL, BACK OF WALL, OR BASE WIDTH
B TO B	BACK TO BACK
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
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 or C/L or CL	CENTERLINE
CLF	CHAIN LINK FENCE
CLG	CEILING
CLR	CLEARANCE OR CLEAR
CMB	CRUSHED MISCELLANEOUS BASE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT, COUNTY, OR COMPANY
COL	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
CONC BL	CONCRETE BLOCK
COND	CONDUIT
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 OR CLOSURE POUR
CPC	CORRUGATED PLASTIC CONDUIT
CS	CENTER OF STRAND
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
C TO C	CENTER TO CENTER
CT	COURT
D, d	DEPTH
D, DU, DCT	DUCT
DB	DUCT BANK
DEF	DEFLECTION
DEG	DEGREES
DEPT	DEPARTMENT
DESC	DESCRIPTION
DET	DETAIL
DI	DUCTILE IRON , DROP INLET
DIAM OR ø	DIAMETER
DIAG	DIAGRAM
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DIST	DISTRICT OR DISTANCE

DMH	DRAINAGE MANHOLE
DML	DEMOLITION
DN	DOWN
DU	DUCT
DW	DOMESTIC WATER
DWG	DRAWING
DWL	DOWEL
DWLG	DOWELLING
DWY	DRIVEWAY
E	EAST, EASTING OR ELECTRICAL
EA	EACH
EB	EASTBOUND OR END BRIDGE
EC	END CURVE
ECR	END CURB RETURN
E/E	EAST OF EAST RIGHT-OF-WAY LINE
EF	EACH FACE
EHH	ELECTRIC HANDHOLE
EL, ELEV	ELEVATOR OR ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
ELECT	ELECTRIC (REF)
EMB	EMBANKMENT
EMH	ELECTRICAL MANHOLE
EO or E/O	EAST OF
EOR	END OF ROAD
EP	EDGE OF PAVEMENT OR END PLATFORM
EQ	EQUAL, EQUATION OR EQUALITY
ES	EXTRA STRENGTH
ETC	ET CETERA
EW	EACH WAY
E/W	EAST OF WEST RIGHT-OF-WAY LINE
EX / EXIST / (E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FILL, FIBER
FA	FIRE ALARM
FB	FIELD BOOK, FIRE ALARM BOX
FAC	FIRE ALARM CONDUIT
FC	FIRE CONNECTION
FD	FIBER DUCT, FLOOR DRAIN, FIRE DEPARTMENT OR FOUND
FDN	FOUNDATION
FE	FLANGED END
FF	FINISHED FLOOR OR FAR FACE
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FH	FIRE HYDRANT
FIN	FINISH
FL	FLOW LINE, FUEL
FLG	FLANGE
FLP	FLOW LINE PIPE
FLR	FLOOR
FO	FIBER OPTIC CABLE
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
G	GAS OR GAS LINE
GA	GAUGE (GAGE)
GALV	GALVANIZE OR GALVANIZED
GAL(S)	GALLON(S)
GB	GRADE BREAK
GM	GAS METER
GND	GROUND
GP	GENERAL PACKAGE, GAUGE PLATE OR GRADING PLAN
GR	GRADE, GROUND
GRS	GALVANIZED RIGID STEEL
GSC	GALVANIZED STEEL CONDUIT
GV	GATE VALVE, GAS VALVE
GW	GUY WIRE

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ABBREVIATIONS SHEET 1 OF 2		SCALE NONE
DWG. NO. T-03		SHEET 3 OF 80

ABBREVIATIONS

H	HEIGHT, HIGH PRESSURE	No OR #	NUMBER	RTW	RIGHT TRAVELED WAY	TV	TELEVISION
HAP	HORIZONTAL ANGLE POINT	NRCP	NON-REINFORCED CONCRETE PIPE			TVCC	TRANSPORTED VITRIFIED CLAY CONDUIT
HB	HOSE BIBB	NS	NEAR SIDE	S	SOUTH, SLOPE, OR SIGN	TVM	TICKET VENDING MACHINE
HC	SANITARY SEWER HOUSE CONNECTION	N/S	NORTH OF SOUTH RIGHT-OF-WAY LINE	SA	SERVICE AISLE	T/W	TOP OF WALL
HH	HANDHOLE	NTS	NOT TO SCALE	SAV	STAND ALONE VALIDATOR	TYP	TYPICAL
HORIZ	HORIZONTAL			SB	SOUTHBOUND OR SPLICE BOX		
HOV	HIGH OCCUPANCY VEHICLE	OC	ON CENTER(S) OR OVERCROSSING	SCC	STEEL CYLINDER CONCRETE (PIPE)	UC	UNDERCROSSING OR UNDER CONSTRUCTION
HP	HORSE POWER, HEEL PLATE OR HIGH POINT	OD	OUTSIDE DIAMETER	SCL	SECONDARY CONTROL LINE	UD	UNDERDRAIN
HR	HEADROOM OR HOUR	OFC	ORANGEBURG FIBER CONDUIT	SCWD	SINGLE CREOSOTED WOOD DUCT	UG	UNDERGROUND
HS	HIGH STRENGTH STEEL	OG	ORIGINAL GROUND	SD	STORM DRAIN	UNK	UNKNOWN
HWY	HIGHWAY	OH	OVERHEAD	SDMH	STORM DRAIN MAINTENANCE HOLE	UP	UNDERPASS, COMBINATION POWER/TELEPHONE POLE, UNION PACIFIC (RAILROAD)
		OP	OVERPASS	SEC	SECONDS	UPRR	UNION PACIFIC RAILROAD
ID	INSIDE DIAMETER	ORL	ORNAMENTAL LIGHTING	SECT	SECTION	UNO	UNLESS NOTED OTHERWISE
I. D.	IDENTIFIER			SF	SITE FINISH PLAN OR SQUARE FEET		
IFC	ISSUED FOR CONSTRUCTION	P	PIPE	SFV	SAN FERNANDO VALLEY	V	VALVE OR VELOCITY
IN OR "	INCH OR INCHES	PA	PUBLIC ADDRESS	SG	SUB GRADE	VAC	VACUUM
INV	INVERT	PAM, PEM	POLYETHYLENE MEDIUM PRESSURE GAS LINE	SHLD	SHOULDER	VAP	VERTICAL ANGLE POINT
IP	IRON PIPE	PB	PULL BOX	SHT	SHEET	VAR	VARIABLE OR VARIES
		PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVATURE	SIG	SIGNAL	VCC	VITRIFIED CLAY CONDUIT
JT	JOINT	PCCP	PRE-STRESSED CONCRETE CYLINDER PIPE	SIM	SIMILAR	VCD	VITRIFIED CLAY DUCT
JS	JUNCTION STRUCTURE	PCL	PRIMARY CONTROL LINE	SIP	SUPPORT IN PLACE	VCP	VITRIFIED CLAY PIPE
		PCS	PIECES	SL	STREET LIGHT	VCP(ES)	VITRIFIED CLAY PIPE (EXTRA STRENGTH)
K	KIP OR KIPS	PD	PAPER DUCT	SLC	STREET LIGHT CONDUIT	VCT	VITRIFIED CLAY TILE
KSF	KIPS PER SQUARE FOOT	PE	POLYETHYLENE OR PLAIN END	SLPB	STREET LIGHT PULL BOX	VERT	VERTICAL
KF	KIP-FOOT	PED	PEDESTRIAN	SMH	SEWER MANHOLE	V.I.F.	VERIFY IN FIELD
KV	KILOVOLT	PG	PROFILE GRADE OR PAGE	S/N	SOUTH OF NORTH RIGHT-OF-WAY LINE	VLT	VAULT
KLF	KIPS PER LINEAR FOOT	PGL	PROFILE GRADE LINE	SP	SPACE, SPACING, SITE PLAN, OR SOUTHERN PACIFIC (RAILROAD)		
		PITO	POINT OF INTERSECTION OF TURNOUT	SPEC	SPECIFICATION(S)	W	WEST OR WATER
L	LINE, LINING, OR LENGTH	PIV	POST INDICATOR VALUE	SPR	SPRINKLER	w/	WITH
LA	LOS ANGELES	PL	PLACE	SQ	SQUARE	WB	WESTBOUND
LACFCD	LOS ANGELES COUNTY FLOOD CONTROL DISTRICT	P	PROPERTY LINE	S/S	SOUTH OF SOUTH RIGHT-OF-WAY LINE	WD	WATER DETECTOR
LAT	LATERAL	PLD	PLASTIC DUCT	SS	SANITARY SEWER OR STOP SIGN OR STAINLESS STEEL	W/E	WEST OF EAST RIGHT-OF-WAY LINE
LBS OR #	POUND(S)	PLT	PLASTIC TILE	SSD	SANDSTONE CEMENT DUCT	WG	WHITE GAS
LF	LINEAR FOOT (FEET)	PM	PARKING METER	SSMH	SANITARY SEWER MAINTENANCE HOLE	WHH	WATER HANDHOLE
LG	LONG OR LENGTH	PO	PUSH-ON JOINT	ST	STREET	WHSE	WAREHOUSE
LGT	LIGHT	POC	POINT OF CONNECTION	STA	STATION	WI	WROUGHT IRON
LH	LEFT HAND	POL	POLICE	STD	STANDARD OR SEWER TILED DUCT	W	WIDTH
LIN FT	LINEAR FEET	PP	POWER POLE OR PAPER PIPE	STL	STEEL	WIP	WROUGHT IRON PIPE
LJ	LEADED JOINT	PPD	PAPER PIPE DUCT	STM	STEAM	WL	WATER LEVEL
LN	LANE	PROD	PRODUCT	STOR	STORAGE	WLN	WATER LINE
LOC	LOCATE, LOCATED, OR LOCATION	PROP	PROPERTY OR PROPOSED	STP	STEEL PIPE	WM	WATER METER
LOL	LAYOUT LINE	PROP OR (P)	PROPOSED	STR	STRAIGHT	WMH	WATER MAINTENANCE HOLE
LP	LOW PRESSURE OR LOW POINT	PSF	POUNDS PER SQUARE FOOT	STRUCT	STRUCTURE	WS	WATER SERVICES
LPT	LOW POINT	PS	POWER SERVICES	STY	STYRENE	W/O	WEST OF, WITHOUT
LT	LEFT	PSI	POUNDS PER SQUARE INCH	SUB	SUBMITTED	WP	WORKING POINT OR WORK POINT
LTG	LIGHTING	PSP	PAINT SHOP	SUPV	SUPERVISE OR SUPERVISOR	WSP	WELDED STEEL PIPE
LTW	LEFT TRAVELED WAY	PT(S)	POINTS(S)	SURF	SURFACE	WSP(L)	WELDED STEEL PIPE (CEMENT LINED)
		PUE	PUBLIC UTILITY EASEMENT	SW	SWITCH OR SIDEWALK	WTR	WATER
M	MAIN, MEDIUM PRESSURE	PV	PLUG VALVE	SWK	SIDEWALK	WTW	WALL TO WALL
MAINT	MAINTENANCE	PVC	POLYVINYL CHLORIDE	SYM	SYMMETRICAL	WV	WATER VALVE
MAX	MAXIMUM	PVCC	POLYVINYL CHLORIDE CONDUIT			WW	WASTEWATER
MCD	MULTIPLE CONCRETE DUCT	PVCP	POLYVINYL CHLORIDE PIPE			WWF	WELDED WIRE FABRIC
MCWD	MULTIPLE CREOSOTED WOOD DUCTS	PVMT	PAVEMENT			W/W	WEST OF WEST RIGHT-OF-WAY LINE
MECH	MECHANICAL	PWR	POWER				
MH	MAINTENANCE HOLE			TAN	TANGENT	X-DRAIN	CROSS DRAIN
MIN	MINIMUM, MINUTES	QTY	QUANTITY	T&B	TOP AND BOTTOM	X-ING	CROSSING
MISC	MISCELLANEOUS	QUAD	QUADRANT	TC	TILE CONDUIT, TOP OF CURB	X-SECT	CROSS SECTION
MJ	MECHANICAL JOINT			TD	TILE DUCT OR TILE DRAIN		
ML	MORTAR LINED	R	RADIUS	TEL	TELEPHONE		
ML & C	MORTAR LINED & COATED	RAC	RUBBERIZED ASPHALT CONCRETE	TELE	TELESCOPING		
MOD	MODIFIED	RCB	REINFORCED CONCRETE BOX (CULVERT)	TEMP	TEMPERATURE OR TEMPORARY		
MPH	MILES PER HOUR	RCP	REINFORCED CONCRETE PIPE	TERM	TERMINAL		
MSE	MECHANICALLY STABILIZED EMBANKMENT	RD	ROAD	TF	TOP OF FACE		
MTC	MULTI-TILE CONDUIT	RECT	RECTANGLE OR RECTIFIER	TG	TOP OF GRADE, TOP OF GRATE, OR TELEGRAPH		
MTD	MULTI-TILE DUCT	REF	REFERENCE	THEO	THEORETICAL		
MVP	MAINTENANCE VEHICLE PULLOUT	REINF	REINFORCE, REINFORCED, OR REINFORCEMENT	THK	THICK OR THICKNESS		
		REQ'D	REQUIRED OR REQUIRE	TL	TRAFFIC LIGHT		
N	NORTH	RET	RETAINING	TMH	TELEPHONE MAINTENANCE HOLE		
N/A	NOT APPLICABLE	RET W	RETAINING WALL	TOC OR TC	TOP OF CURB		
NB	NORTHBOUND	REV	REVISE, REVISED, OR REVISION	TOP	TOP OF PIPE		
NF	NEAR FACE	RGS OR GRS	RIGID GALVANIZED STEEL OR GALVANIZED RIGID STEEL	TOS	TOP OF SLOPE		
NIC	NOT IN CONTRACT	RH	RIGHT HAND	TP	POLICE TELEPHONE		
N/N	NORTH OF NORTH RIGHT-OF-WAY LINE	ROW or R/W	RIGHT OF WAY	TRD	TRANSIT DUCT		
N/O	NORTH OF	RR	RAILROAD	TRPB	TRANSIT SHELTER PULLBOX		
		RT	RIGHT	TS	TRAFFIC SIGNAL		
				TSC	TRAFFIC SIGNAL CONDUIT		
				TSCB	TRAFFIC SIGNAL CONTROL BOX		
				TSPB	TRAFFIC SIGNAL PULLBOX		


NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				ISSUED FOR BID
10/15/10				ADVANCED CONCEPTUAL ENGINEERING



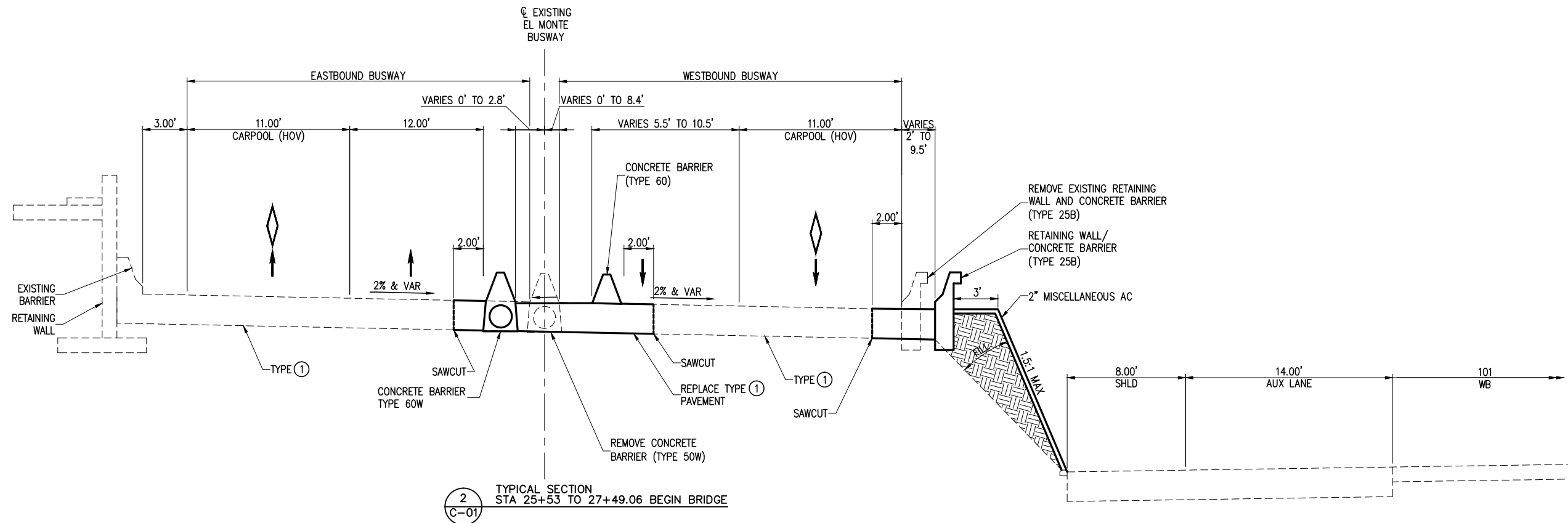
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Los Angeles, CA 90017
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DESIGNED M.PARTENHEIMER
DRAWN BY M.PARTENHEIMER
CHECKED R.CAMPBELL
DATE 4/16/2012

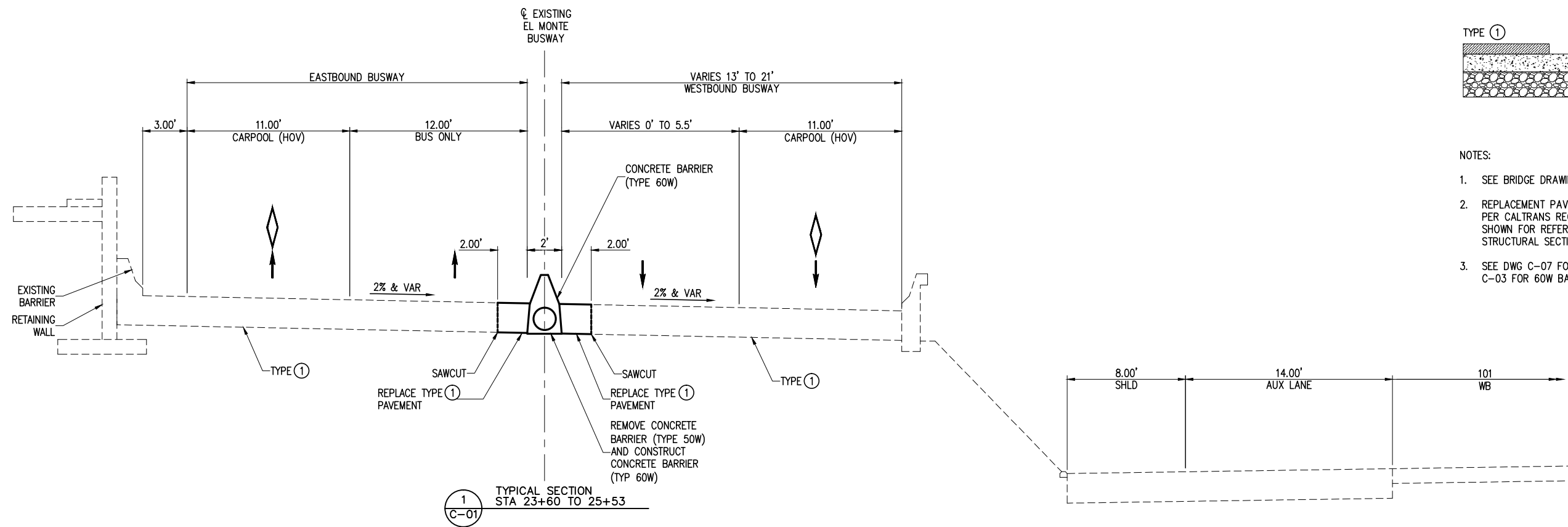


**LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY**

UNION/PATSAOURAS PLAZA BUSWAY STATION DESIGN BUILD CONTRACT No. C0970	FILE/JOB NUMBER C0970
ABBREVIATIONS SHEET 2 OF 2	SCALE NONE
	DWG. NO. T-04
	SHEET 4 OF 80



2
C-01
TYPICAL SECTION
STA 25+53 TO 27+49.06 BEGIN BRIDGE



1
C-01
TYPICAL SECTION
STA 23+60 TO 25+53

EXISTING STRUCTURAL SECTIONS
(NOT TO SCALE)

TYPE ①

- 0.35' TYPE "B" ASPHALT CONCRETE
- 0.60' LEAN CONCRETE BASE
- 0.85' CLASS 2 AGGREGATE BASE

NOTES:

1. SEE BRIDGE DRAWINGS FOR SECTIONS BETWEEN 27+49 TO 40+32.
2. REPLACEMENT PAVEMENT STRUCTURAL SECTION SHALL BE DESIGNED PER CALTRANS REQUIREMENTS. REPLACEMENT STRUCTURAL SECTION SHOWN FOR REFERENCE ONLY AND IS BASED ON EXISTING STRUCTURAL SECTION.
3. SEE DWG C-07 FOR 60W BARRIER DETAILS. SEE DWG C-02 AND C-03 FOR 60W BARRIER LAYOUT.

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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10/15/10				ADVANCED CONCEPTUAL ENGINEERING

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DESIGNED
L. HOROWITZ
DRAWN BY
D. BARRAZA
CHECKED
M. SATISH
DATE
4/8/2011

M LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

Metro

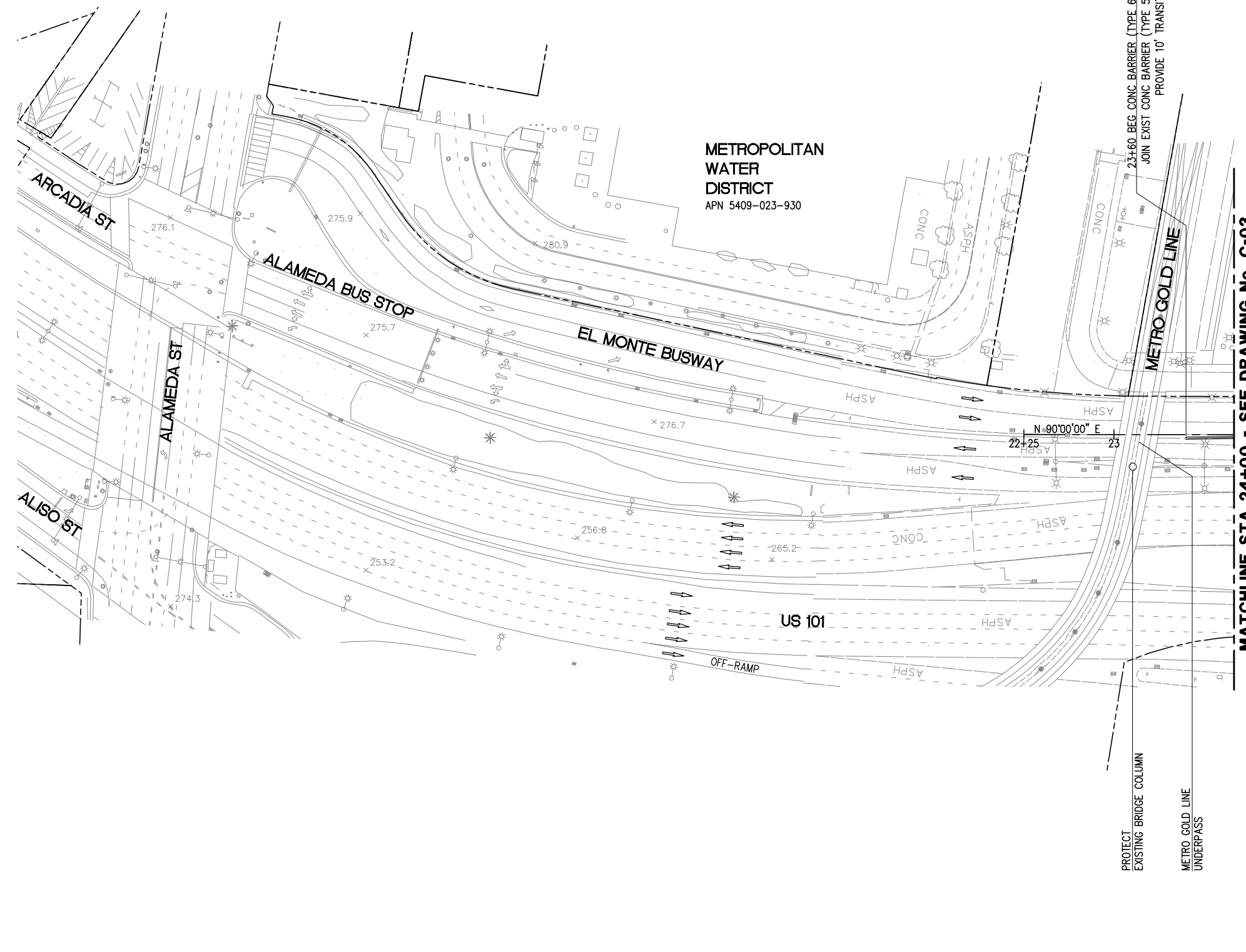
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

**EL MONTE BUSWAY
TYPICAL SECTIONS**

FILE/JOB NUMBER	C0970
SCALE	NOT TO SCALE
DWG. NO.	C-01
SHEET	5 OF 80

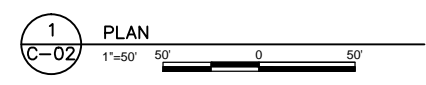
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METROPOLITAN
WATER
DISTRICT
APN 5409-023-930

23+60.00 BEG CONC BARRIER (TYPE 60W)
JOIN EXIST CONC BARRIER (TYPE 50W)
PROVIDE 10' TRANSITION

MATCHLINE STA 24+00 - SEE DRAWING No. C-03



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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10/15/10				ADVANCED CONCEPTUAL ENGINEERING

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DRAWN BY D. BARRAZA
CHECKED M. SATISH
DATE 4/16/2012

M LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY
Metro

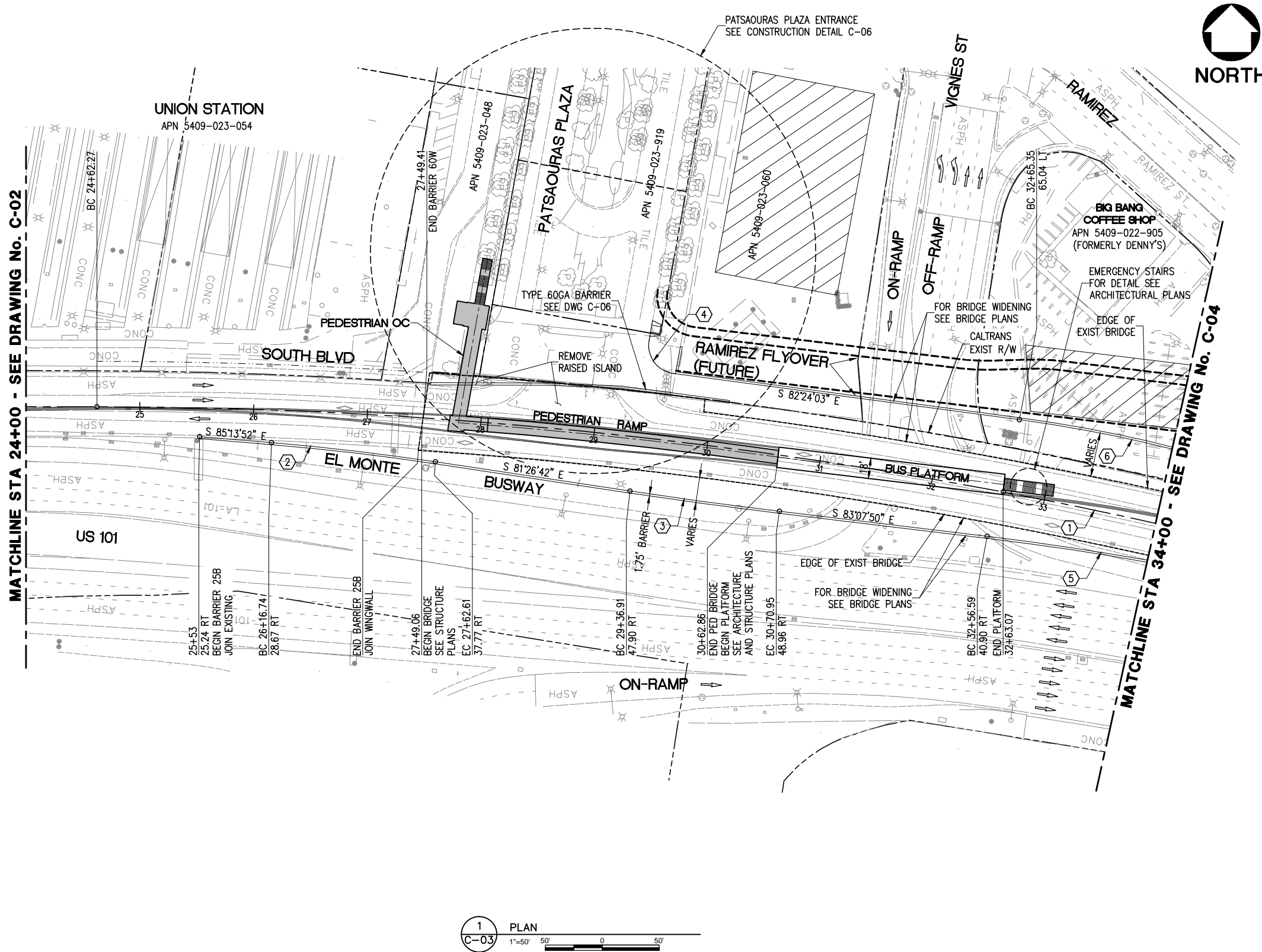
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

LAYOUT
SHEET 1 OF 3

FILE/JOB NUMBER	C0970
SCALE	1" = 50'
DWG. NO.	C-02
SHEET	6 OF 80

Drawing Name: I:\Projects\4014563_0001\Drawings\CIV-C-02.dwg Plotted: Apr 25, 2012 - 3:03pm by: parietm



LEGEND



NOTE:
 1. A PORTION OF THE PARCELS APN 5409-022-905 (FORMERLY DENNY'S RESTAURANT) AND 5409-023-060 AS SHOWN ON THIS SHEET ARE ANTICIPATED TO BE MADE AVAILABLE TO THE CONTRACTOR FOR SOME STAGING OF CONSTRUCTION ACTIVITIES AND STORAGE OF MATERIALS. SPECIFIC LOCATION AND SIZE OF CONTRACTOR'S FACILITIES AND RELATED ACCESS ROUTES SHALL BE COORDINATED WITH METRO.

CURVE TABLE				
	DELTA	RADIUS	LENGTH	TANGENT
①	13°26'35"	4300.00	1008.90	506.78
②	03°47'10"	2195.00	145.05	72.55
③	01°41'08"	4505.00	132.53	66.27
④	92°15'47"	25.00	40.26	26.01
⑤	03°26'08"	2549.00	153.08	76.56
⑥	12°13'54"	1201.00	256.39	128.69



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				ISSUED FOR BID
10/15/10				ADVANCED CONCEPTUAL ENGINEERING

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DESIGNED L. HOROWITZ
 DRAWN BY D. BARRAZA
 CHECKED M. SATISH
 DATE 4/8/2011

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

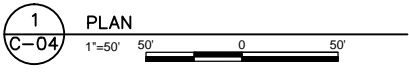
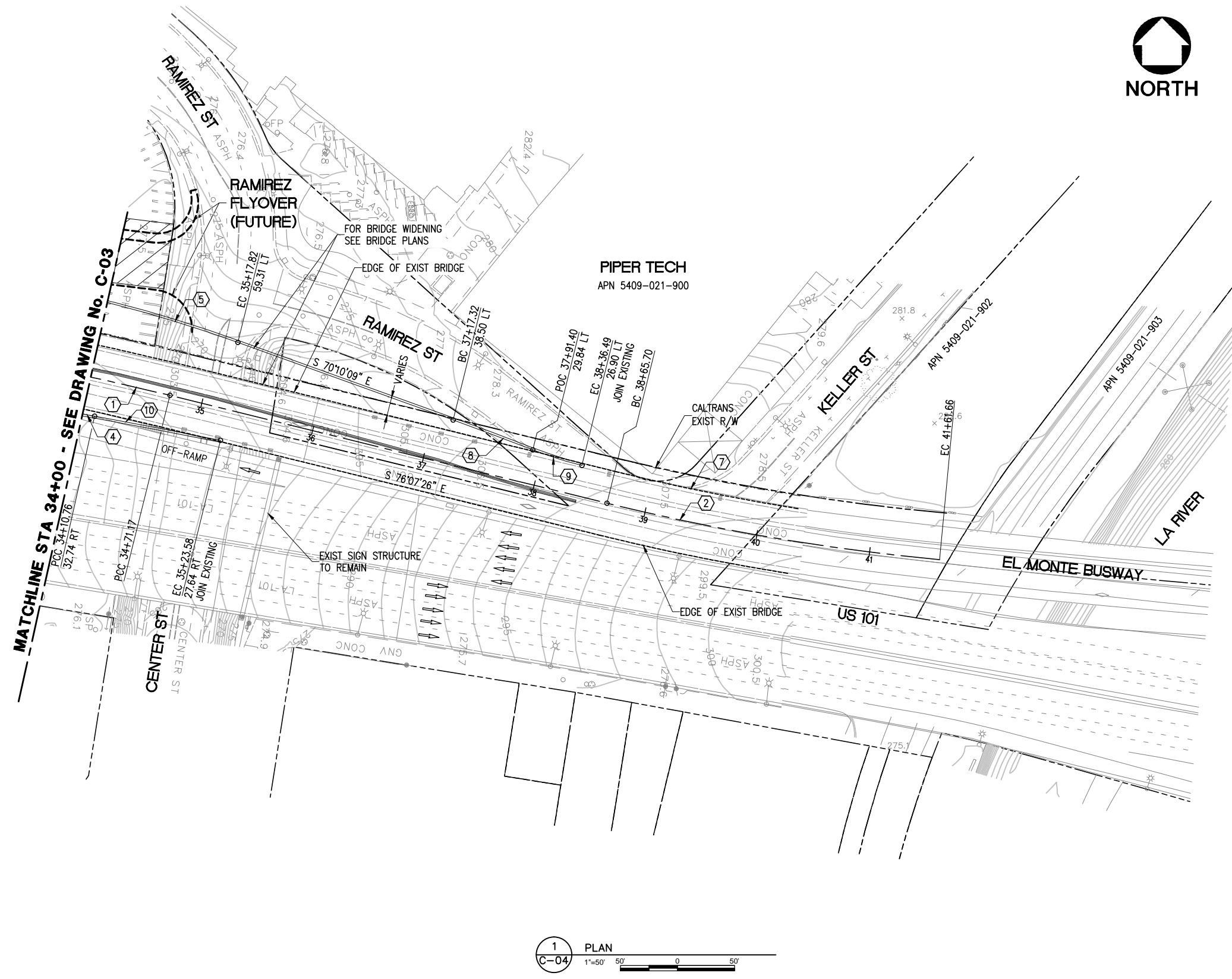
UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970
LAYOUT SHEET 2 OF 3

FILE/JOB NUMBER	C0970
SCALE	1" = 50'
DWG. NO.	C-03
SHEET	7 OF 80

Drawing Name: I:\Projects\4014563\4014563_0001\Drawings\CIV-C-03.dwg Plot Date: Apr 25, 2012 3:03pm by: parliemr



LEGEND



CURVE TABLE				
	DELTA	RADIUS	LENGTH	TANGENT
①	13°26'35"	4300.00	1008.90	506.78
②	08°28'43"	2000.00	295.96	148.25
③	NOT USED			
④	03°26'28"	2549.00	153.08	76.56
⑤	12°13'54"	1201.00	256.39	128.69
⑥	NOT USED			
⑦	NOT USED			
⑧	01°25'29"	3000.00	74.59	37.30
⑨	07°17'50"	355.00	45.21	22.64
⑩	01°04'20"	6000.00	112.29	56.15

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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DESIGNED
L. HOROWITZ

DRAWN BY
D. BARRAZA

CHECKED
M. SATISH

DATE
4/8/2011

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

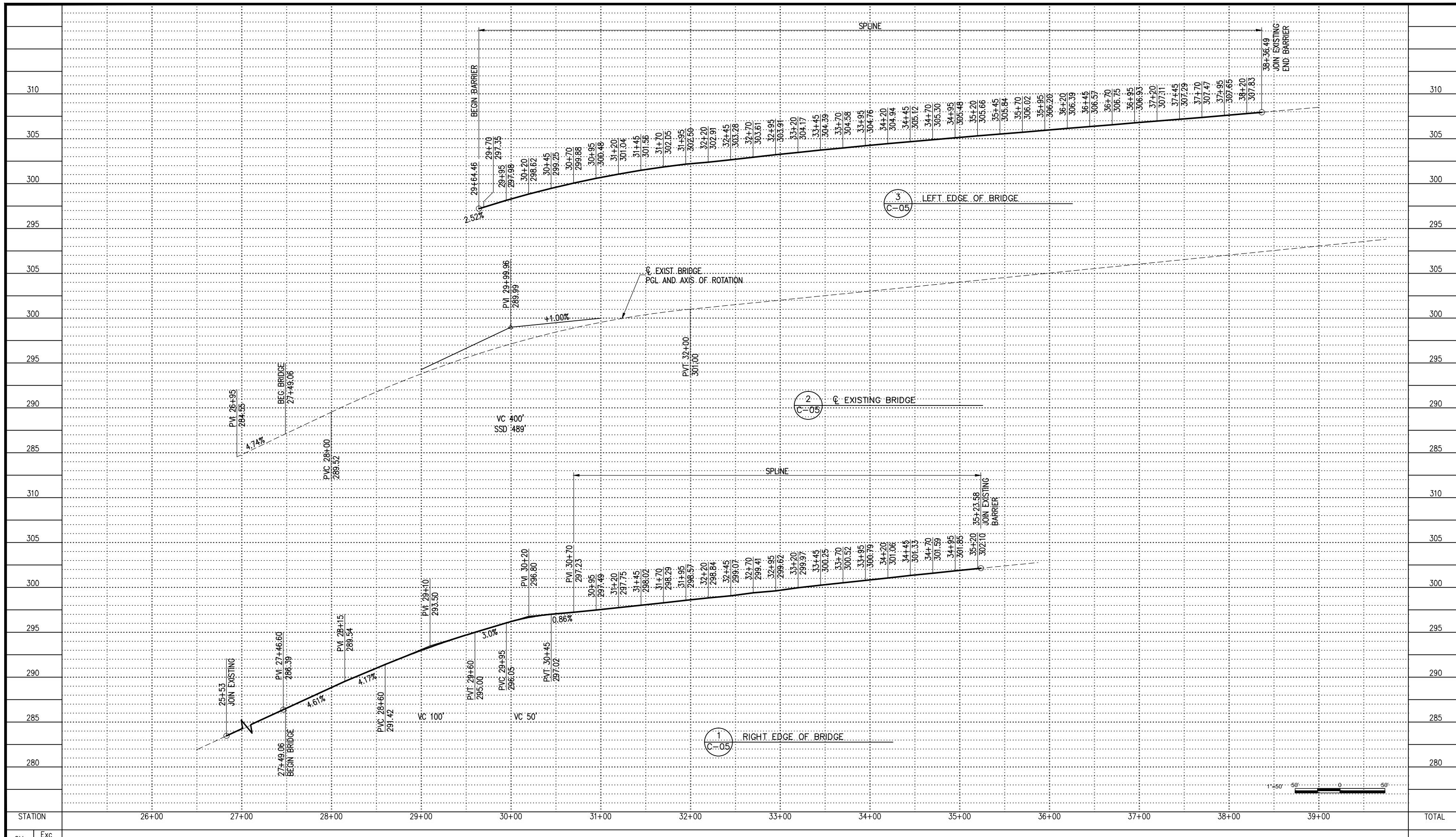
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

LAYOUT SHEET 3 OF 3

FILE/JOB NUMBER	C0970
SCALE	1" = 50'
DWG. NO.	C-04
SHEET	8 OF 80

Drawing Name: I:\Projects\4014563_0001\Drawings\CIV-C-04.dwg Plotted: Apr 25, 2012 - 3:03pm by: pariemerf



STATION	26+00	27+00	28+00	29+00	30+00	31+00	32+00	33+00	34+00	35+00	36+00	37+00	38+00	39+00	TOTAL
CY															
	Exc														
	Emb														

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				ISSUED FOR BID
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DRAWN BY	D. BARRAZA
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DATE	4/8/2011

M
Metro

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

RECOMMENDED DATE APPROVED DATE

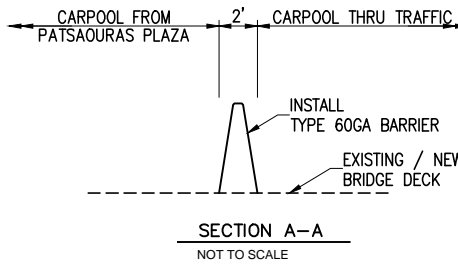
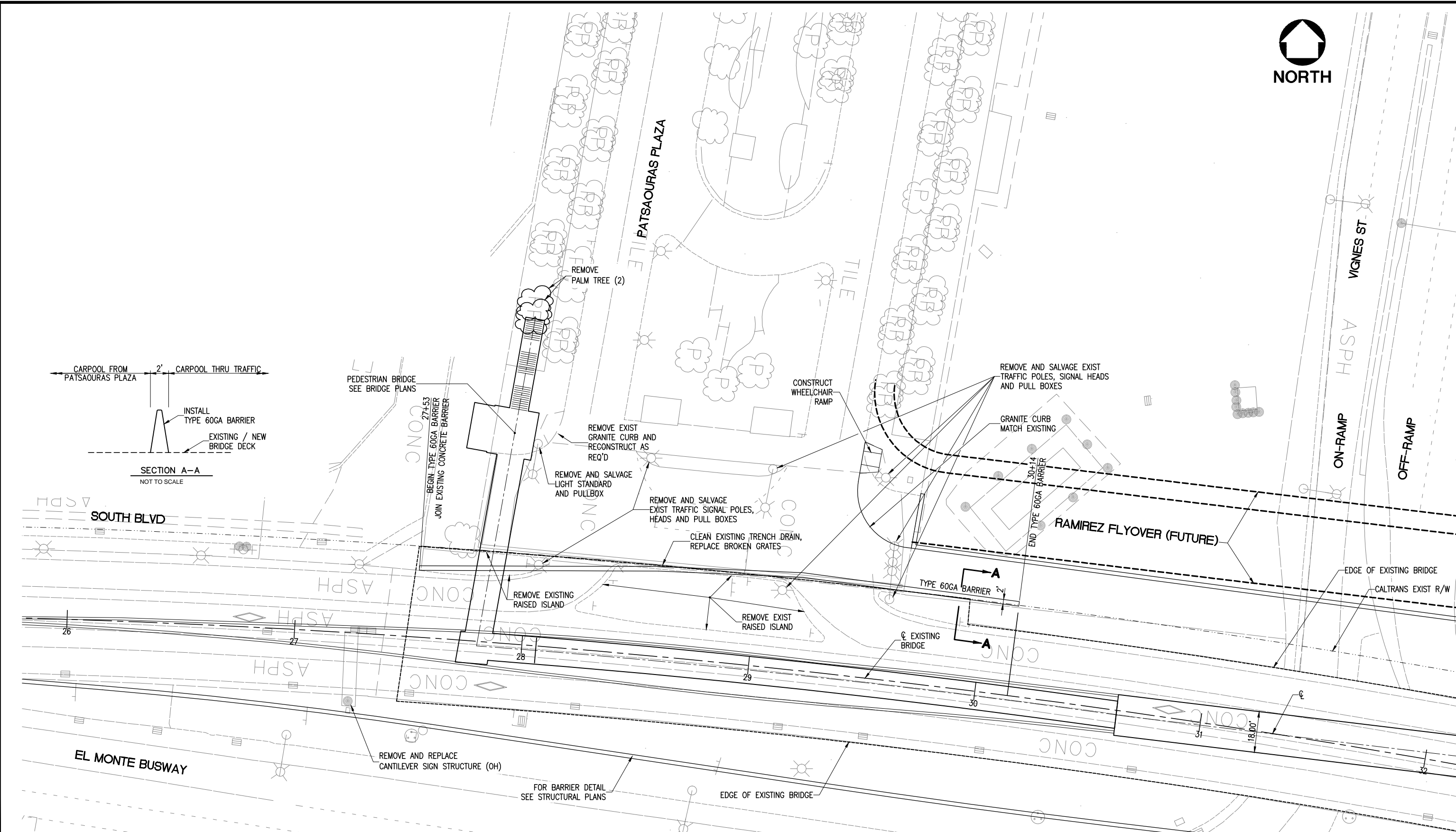
NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

BUSWAY BRIDGE PROFILE

FILE/JOB NUMBER: C0970
 SCALE: 1" = 50'
 DWG. NO.: C-05
 SHEET: 9 OF 80

Drawing Name: I:\Projects\4014563\Drawings\CVC-05.dwg Plot Date: Apr 25, 2012 3:03pm by: parhamr



1 PLAN
C-06 1"=20'

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
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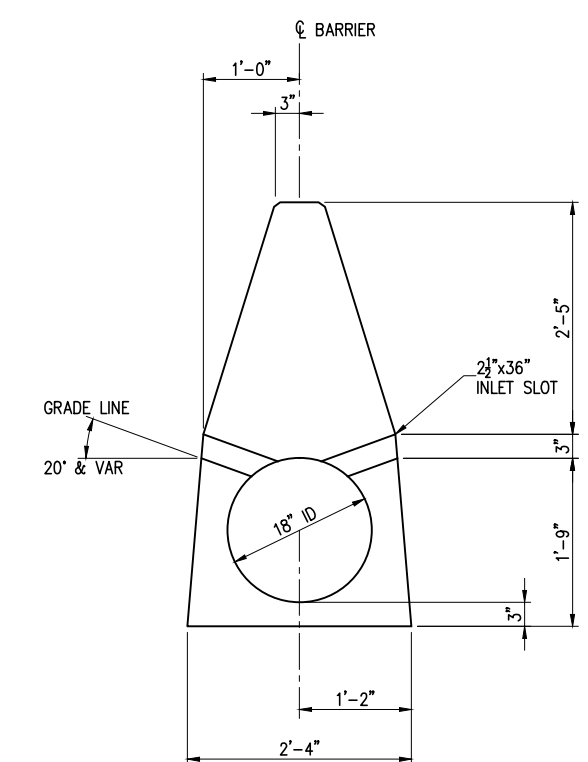
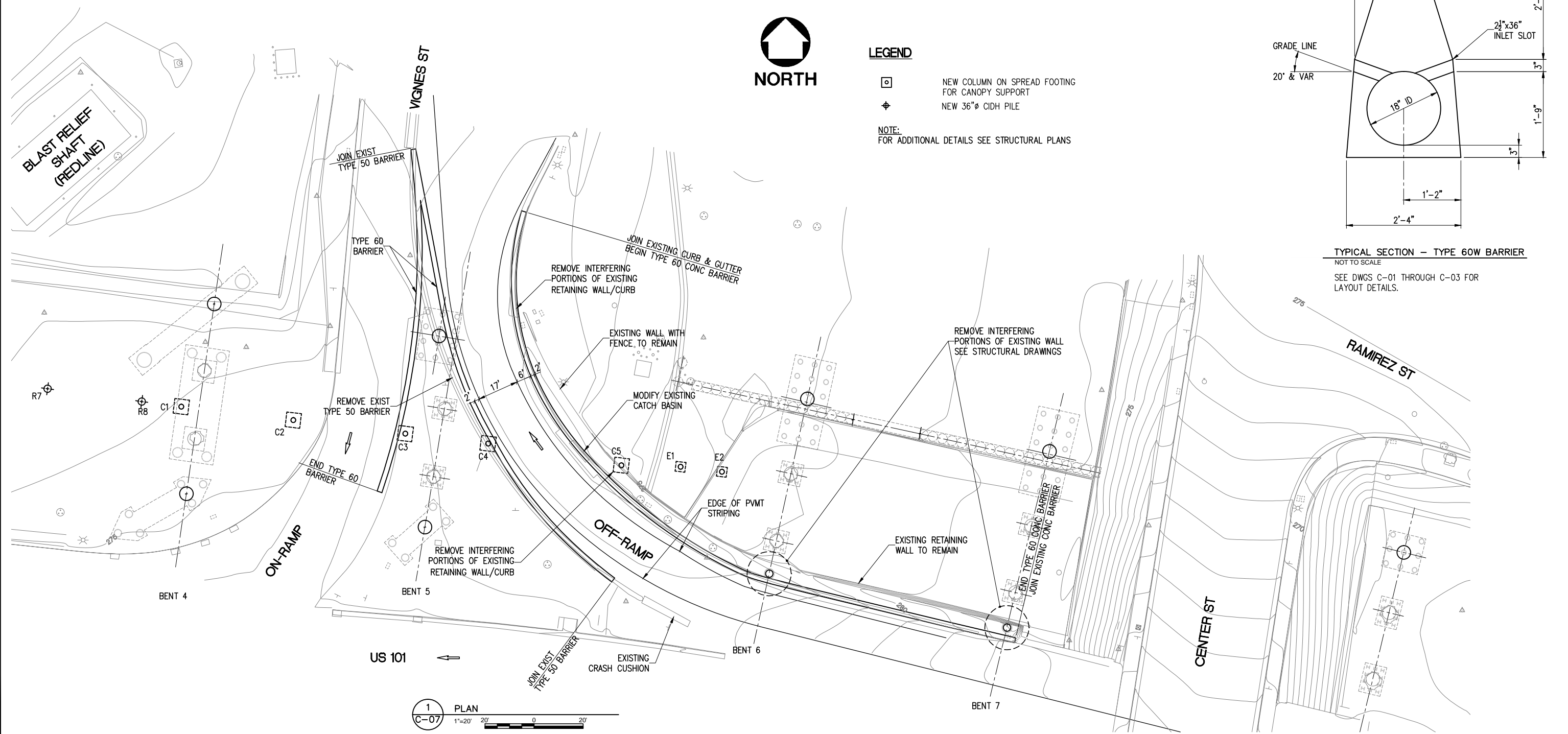
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

CONSTRUCTION DETAILS

FILE/JOB NUMBER	C0970
SCALE	1"= 20'
DWG. NO.	C-06
SHEET	10 OF 80

Drawing Name: I:\Projects\4014653_0001\Drawings\CIV-C-06.dwg, Plotted: Apr 25, 2012 - 3:03pm by: perlinef



TYPICAL SECTION - TYPE 60W BARRIER
 NOT TO SCALE
 SEE DWGS C-01 THROUGH C-03 FOR LAYOUT DETAILS.

1 PLAN
 C-07
 1"=20'

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				ISSUED FOR BID
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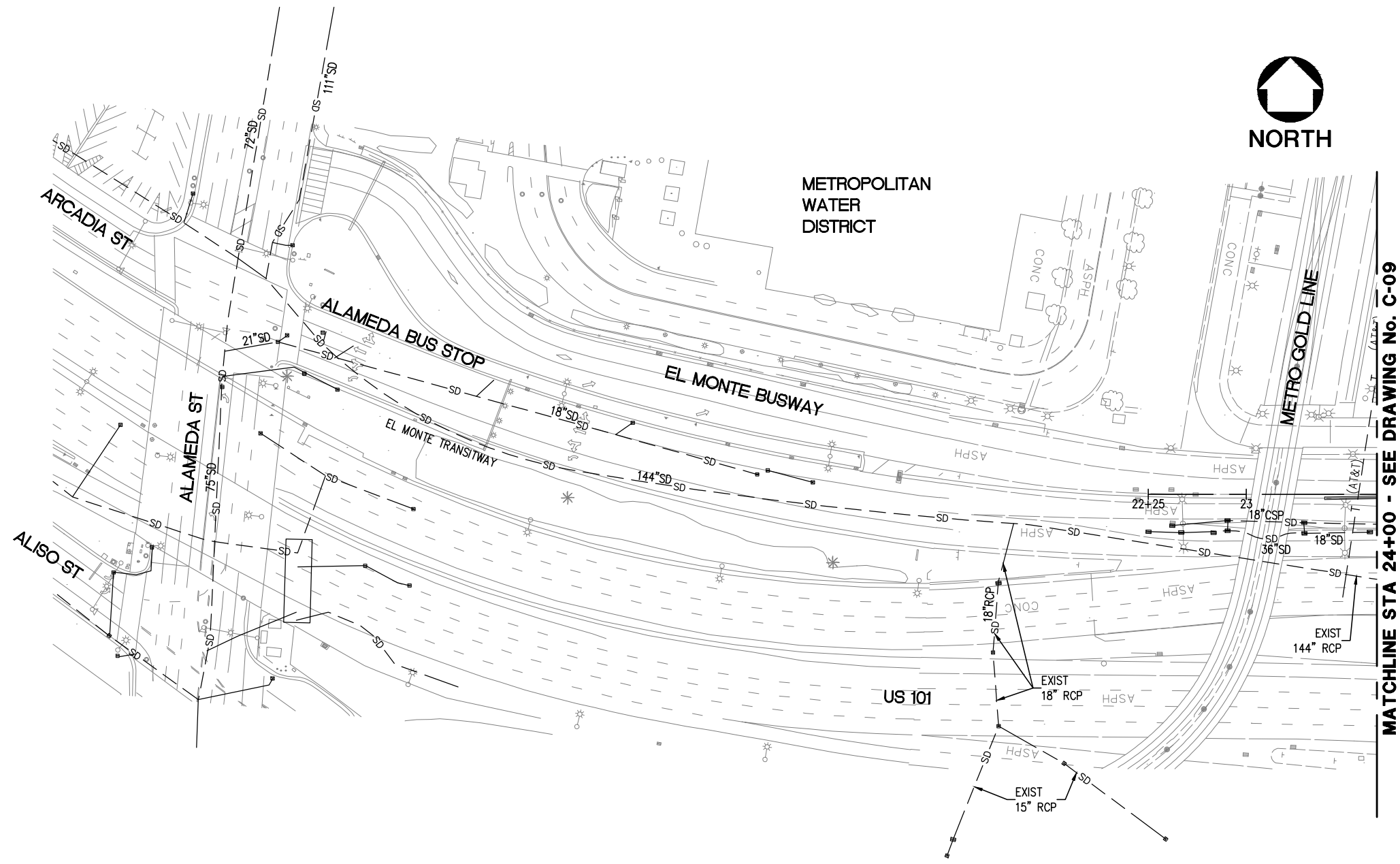
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

CONSTRUCTION DETAILS

FILE/JOB NUMBER	C0970
SCALE	1"= 20'
DWG. NO.	C-07
SHEET	11 OF 80

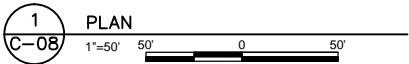
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LEGEND

- SD --- INDICATES EXISTING DRAIN PIPE
- * INDICATES EXISTING DRAIN INLET

MATCHLINE STA 24+00 - SEE DRAWING No. C-09



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
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CHECKED M. SATISH
DATE 4/16/2012

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METROPOLITAN TRANSPORTATION AUTHORITY

RECOMMENDED _____ DATE _____ APPROVED _____ DATE _____

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

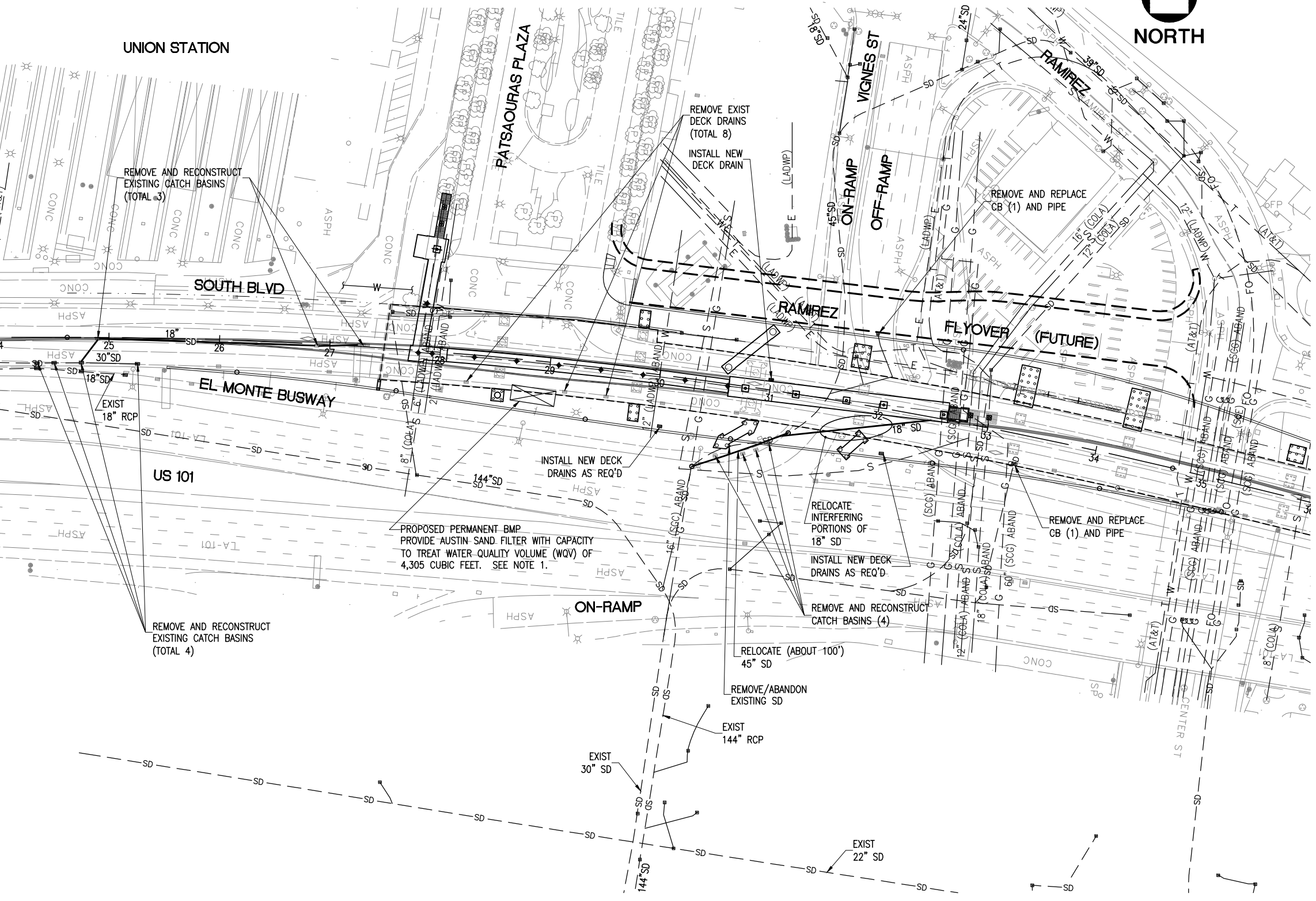
DRAINAGE
SHEET 1 OF 2

FILE/JOB NUMBER	C0970
SCALE	1" = 50'
DWG. NO.	C-08
SHEET	12 OF 80

Drawing Name: I:\Projects\4014563_0001\Drawings\CIV-C-08.dwg Plotted: Apr 25, 2012 - 3:03pm by: perliemr



MATCHLINE STA 24+00 - SEE DRAWING No. C-08



LEGEND

- SD --- INDICATES EXISTING DRAIN PIPE
- INDICATES EXISTING DRAIN INLET
- SD — INDICATES NEW STORM DRAIN PIPE

NOTE:
 1. FOR DETAILS SEE STORM WATER DATA REPORT (SWDR - UNDER SEPARATE COVER) PREPARED FOR THIS PROJECT.

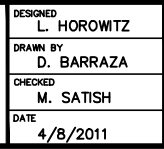
1 PLAN
 C-09
 1"=50'

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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**LOS ANGELES COUNTY
 METROPOLITAN TRANSPORTATION AUTHORITY**

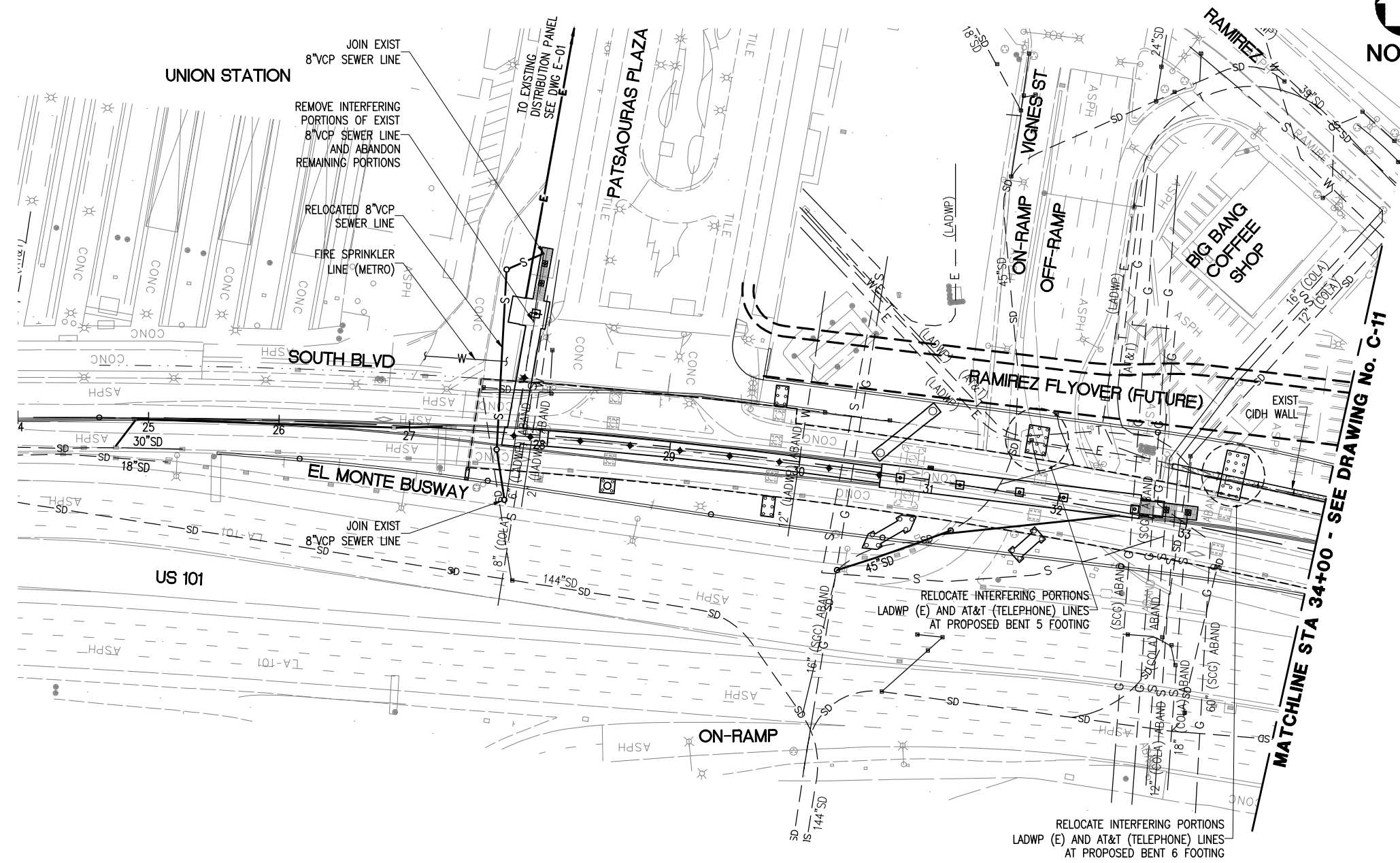
RECOMMENDED DATE APPROVED DATE

**UNION/PATSOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970**

**DRAINAGE
 SHEET 2 OF 2**

FILE/JOB NUMBER C0970
SCALE 1" = 50'
DWG. NO. C-09
SHEET 13 OF 80

Drawing Name: I:\Projects\4014563\01\4563_0001\Drawings\CIV-C-09.dwg Plotted: Apr 25, 2012 - 3:03pm by: perliemf



- LEGEND**
- E --- INDICATES EXISTING ELECTRICAL
 - FO --- INDICATES EXISTING FIBER OPTIC
 - G --- INDICATES EXISTING GAS PIPE
 - T --- INDICATES EXISTING TELEPHONE
 - W --- INDICATES EXISTING WATER PIPE
 - O --- INDICATES EXISTING OIL PIPE
 - S --- INDICATES EXISTING SEWER PIPE
 - S --- INDICATES EXIST ABANDONED SEWER PIPE
 - SD --- INDICATES EXISTING DRAIN PIPE
 - INDICATES EXISTING DRAIN INLET
 - SD --- INDICATES NEW DRAIN PIPE
 - E --- INDICATES NEW ELECTRICAL LINE
- (AT&T) AMERICAN TELEPHONE & TELEGRAPH (TELEPHONE)
 (COLA) CITY OF LOS ANGELES
 (CT) CALTRANS
 (LADWP) LOS ANGELES DEPT OF WATER & POWER (WATER, ELECTRICAL)
 (SCE) SOUTHERN CALIFORNIA EDISON (TELECOMMUNICATION/FIBER OPTIC)
 (SCG) SOUTHERN CALIFORNIA GAS (GAS)



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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Metro

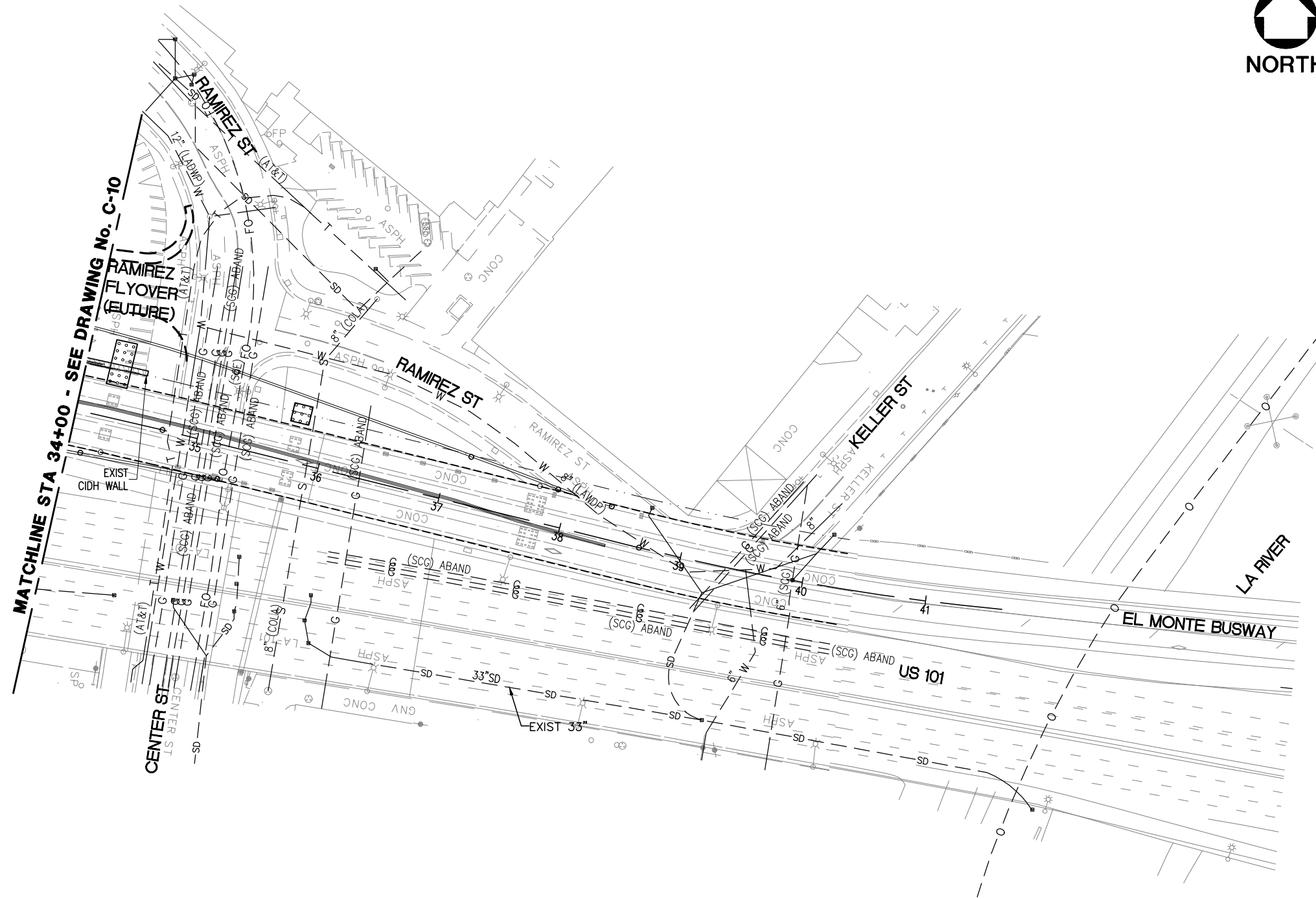
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

UTILITIES
SHEET 1 OF 2

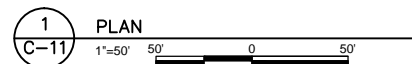
FILE/JOB NUMBER	C0970
SCALE	1" = 50'
DWG. NO.	C-10
SHEET	14 OF 80

Drawing Name: I:\Projects\4014563\4014563_0001\Drawings\CIV-C-10.dwg Plotter: Apr 25, 2012 - 3:03pm by: perimarf



LEGEND

- — — E — — — INDICATES EXISTING ELECTRICAL
- — — FO — — — INDICATES EXISTING FIBER OPTIC
- — — G — — — INDICATES EXISTING GAS PIPE
- — — T — — — INDICATES EXISTING TELEPHONE
- — — W — — — INDICATES EXISTING WATER PIPE
- — — O — — — INDICATES EXISTING OIL PIPE
- — — S — — — INDICATES EXISTING SEWER PIPE
- — — S — — — INDICATES EXIST ABANDONED SEWER PIPE
- — — SD — — — INDICATES EXISTING DRAIN PIPE
- INDICATES EXISTING DRAIN INLET
- (AT&T) AMERICAN TELEPHONE & TELEGRAPH (TELEPHONE)
- (COLA) CITY OF LOS ANGELES
- (CT) CALTRANS
- (LADWP) LOS ANGELES DEPT OF WATER & POWER (WATER, ELECTRICAL)
- (SCE) SOUTHERN CALIFORNIA EDISON (TELECOMMUNICATION/FIBER OPTIC)
- (SCG) SOUTHERN CALIFORNIA GAS (GAS)



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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DESIGNED
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 DRAWN BY
D. BARRAZA
 CHECKED
M. SATISH
 DATE
4/8/2011

M LOS ANGELES COUNTY
Metro METROPOLITAN TRANSPORTATION AUTHORITY

RECOMMENDED _____ DATE _____ APPROVED _____ DATE _____

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

UTILITIES
SHEET 2 OF 2

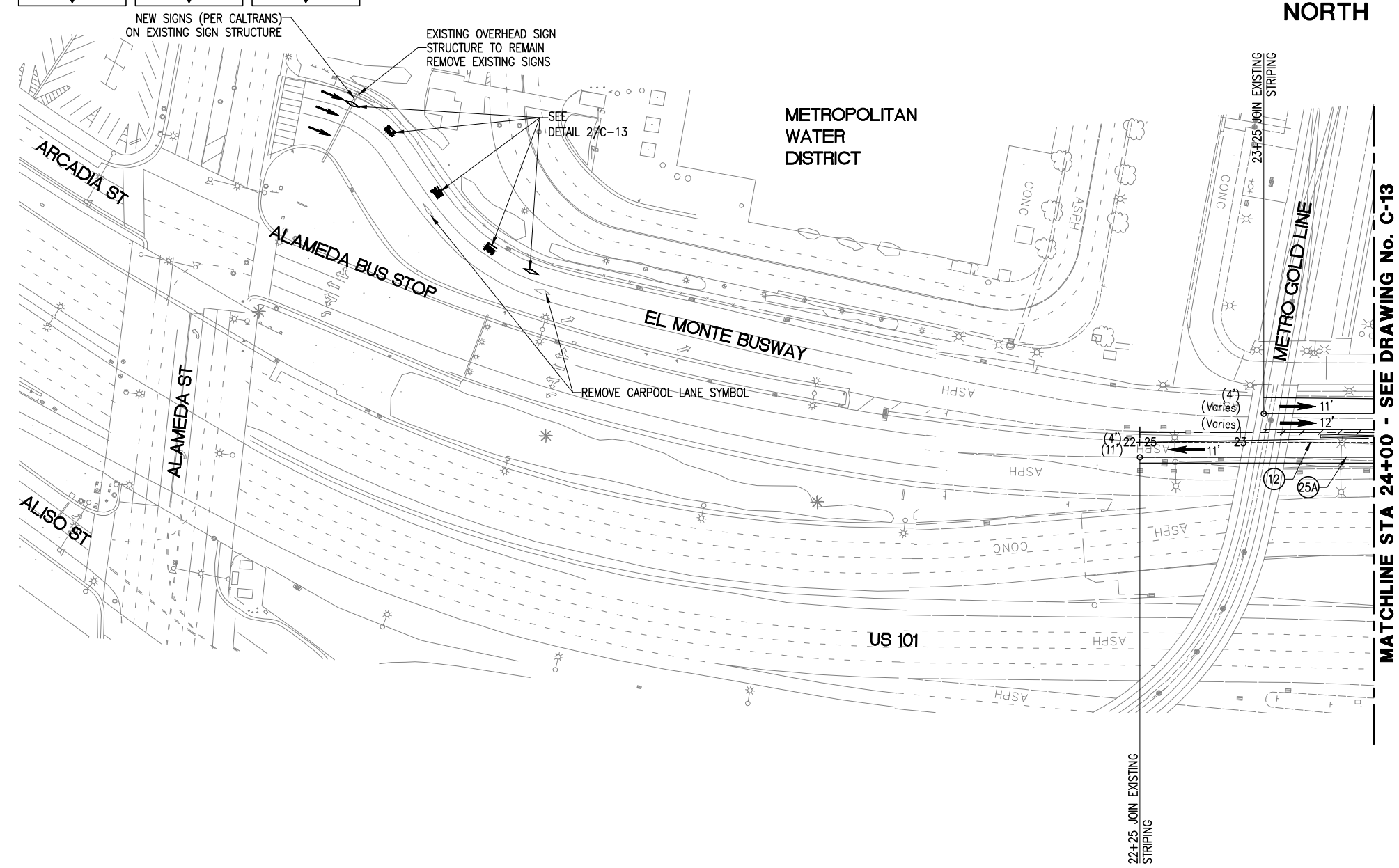
FILE/JOB NUMBER	C0970
SCALE	1" = 50'
DWG. NO.	C-11
SHEET	15 OF 80

Drawing Name: I:\Projects\4014563\4014563_0001\Drawings\DWG-C-11.dwg Plotlet: Apr 25, 2012 - 3:03pm by: perliemf

ALL CARPOOLS
UNION STATION BUSES ONLY
ALAMEDA STOP BUSES ONLY



- GENERAL SIGNING AND STRIPING NOTES:**
1. ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED 2010. CALIFORNIA MUTCD SUPPLEMENT, THE LATEST CALTRANS STANDARD PLANS A10A THROUGH A24E, CALTRANS HIGH OCCUPANCY VEHICLE (HOV) GUIDELINES (CARPOOL), RAMP METER DESIGN MANUAL, AND SPECIFICATIONS.
 2. ALL STENCILS USED FOR INSTALLING PAVEMENT MARKINGS MUST CONFORM TO THE LATEST CALTRANS STENCILING STANDARDS A24A THROUGH A24E.
 3. REMOVE ALL CONFLICTING PAVEMENT STRIPING AND MARKINGS



- LEGEND**
- (X) DETAIL NUMBER PER MUTCD STD.
 - [P] INSTALL PAVEMENT MARKING PER STD.
 - DIRECTION OF TRAFFIC
 - STRIPING BEGIN CURVE (BC) OR END CURVE (EC)
- NOTE: PAVEMENT MARKINGS/SYMBOLS SHALL BE THERMOPLASTIC PAINT

1 PLAN
C-12 1"=50' 0 50'

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				ISSUED FOR BID
10/15/10				ADVANCED CONCEPTUAL ENGINEERING

STV
STV Incorporated
1055 West 7th Street, Suite 3150
Los Angeles, CA 90017
www.stvinc.com

DESIGNED L. HOROWITZ
DRAWN BY D. BARRAZA
CHECKED M. SATISH
DATE 4/16/2012

Metro LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

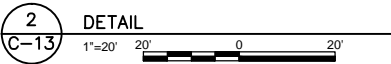
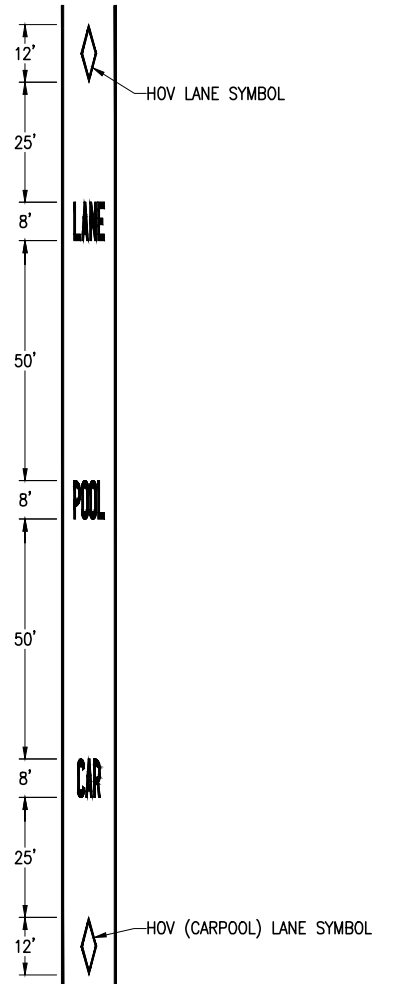
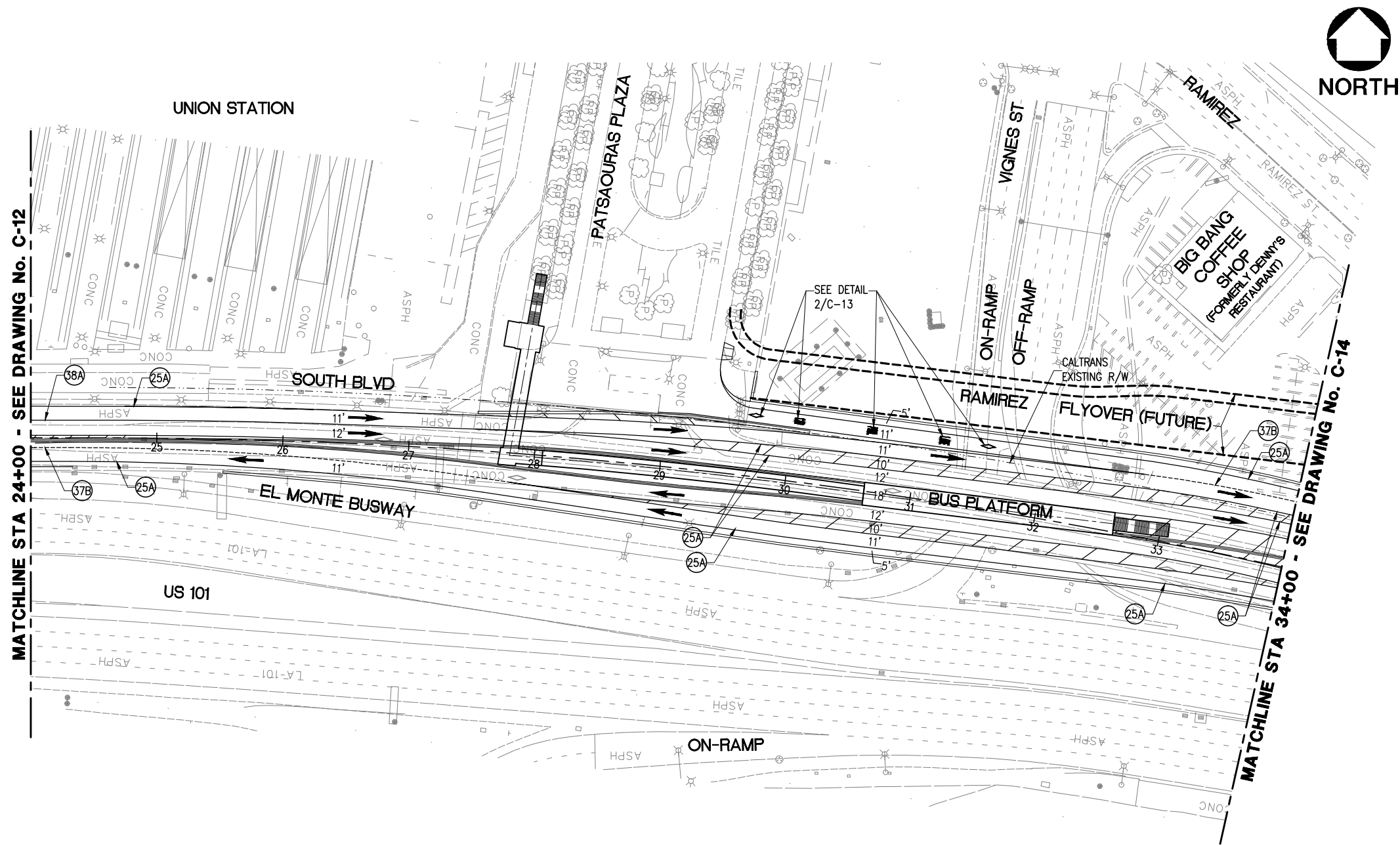
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

PAVEMENT DELINEATION
SHEET 1 OF 4

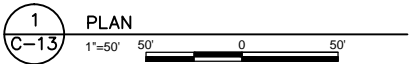
FILE/JOB NUMBER C0970
SCALE 1" = 50'
DWG. NO. C-12
SHEET 16 OF 80

Drawing Name: I:\Projects\4014563\4014563_0001\Drawings\CIV-C-12.dwg Plotter: Apr 25, 2012 - 3:03pm by: perimert



MATCHLINE STA 24+00 - SEE DRAWING No. C-12

MATCHLINE STA 34+00 - SEE DRAWING No. C-14



LEGEND

- (X) DETAIL NUMBER PER MUTCD STD.
- [P] INSTALL PAVEMENT MARKING PER STD.
- ➔ DIRECTION OF TRAFFIC
- STRIPING BEGIN CURVE (BC) OR END CURVE (EC)

NOTE: PAVEMENT MARKINGS/SYMBOLS SHALL BE THERMOPLASTIC PAINT

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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DRAWN BY D. BARRAZA
CHECKED M. SATISH
DATE 4/8/2011

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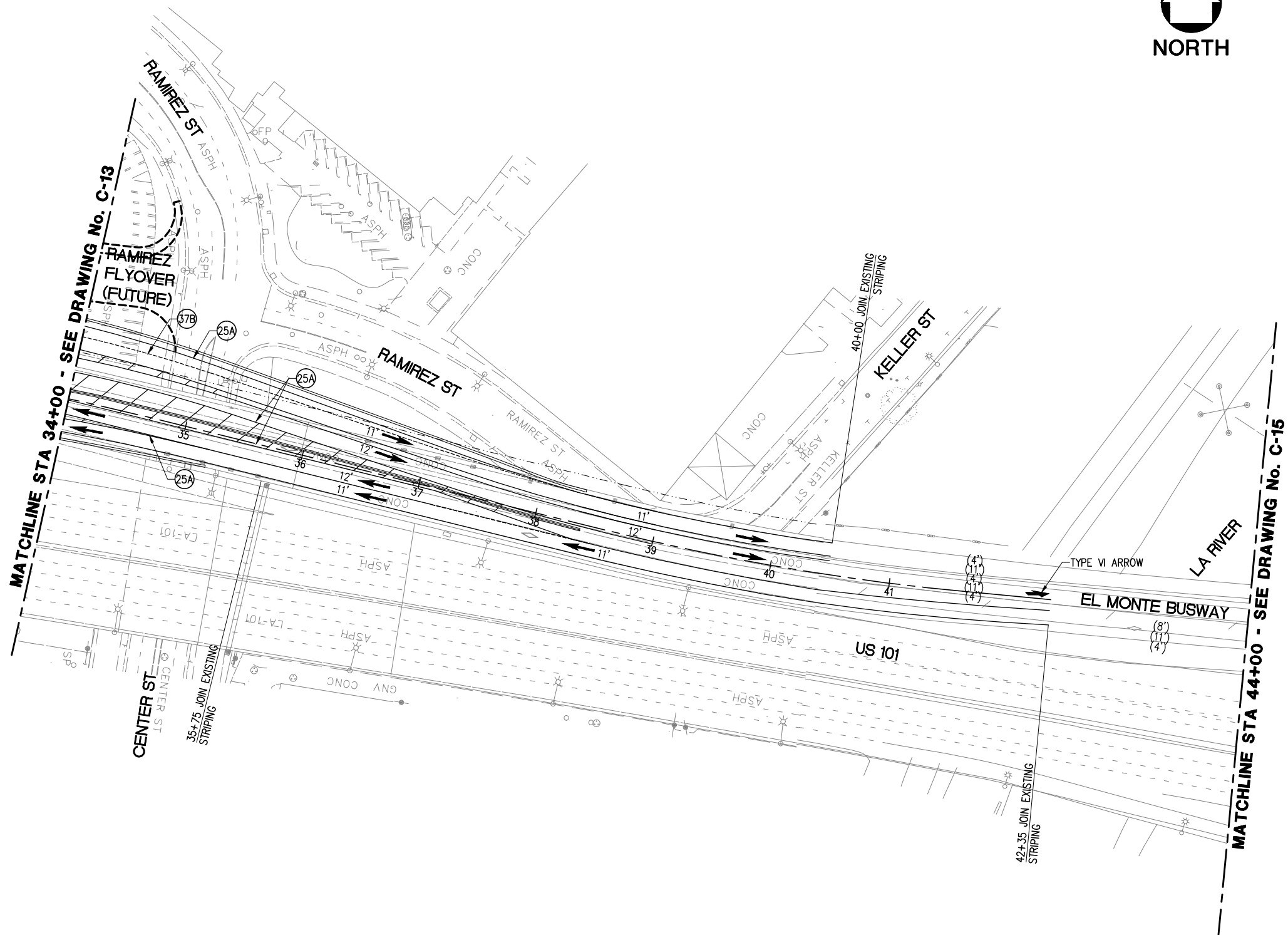
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

PAVEMENT DELINEATION
 SHEET 2 OF 4

FILE/JOB NUMBER C0970
SCALE AS NOTED
DWG. NO. C-13
SHEET 17 OF 80

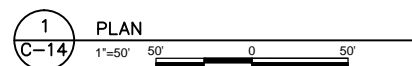
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LEGEND

- (X) DETAIL NUMBER PER MUTCD STD.
- [P] INSTALL PAVEMENT MARKING PER STD.
- ➔ DIRECTION OF TRAFFIC
- STRIPING BEGIN CURVE (BC) OR END CURVE (EC)

NOTE: PAVEMENT MARKINGS/SYMBOLS SHALL BE THERMOPLASTIC PAINT



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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L. HOROWITZ
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D. BARRAZA
 CHECKED
M. SATISH
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4/8/2011

Metro LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

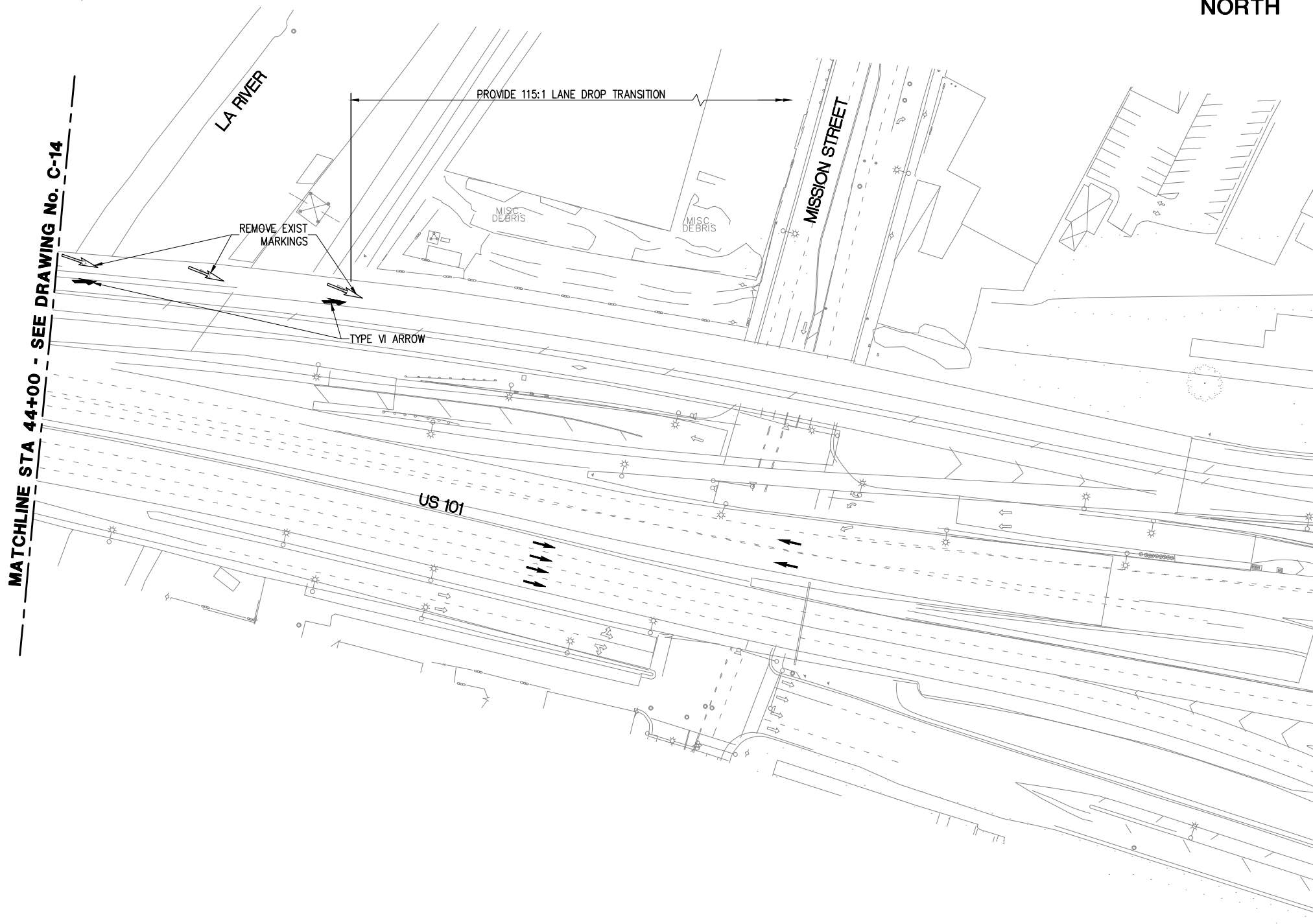
RECOMMENDED _____ DATE _____ APPROVED _____ DATE _____

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

PAVEMENT DELINEATION
SHEET 3 OF 4

FILE/JOB NUMBER	C0970
SCALE	1" = 50'
DWG. NO.	C-14
SHEET	18 OF 80

Drawing Name: I:\Projects\4014653_0001\Drawings\DWG-C-14.dwg Plotter: Apr 25, 2012 - 3:03pm by: perimertf



LEGEND

- (X) DETAIL NUMBER PER MUTCD STD.
 - [P] INSTALL PAVEMENT MARKING PER STD.
 - DIRECTION OF TRAFFIC
- NOTE: PAVEMENT MARKINGS/SYMBOLS SHALL BE THERMOPLASTIC PAINT



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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DESIGNED	L. HOROWITZ
DRAWN BY	D. BARRAZA
CHECKED	M. SATISH
DATE	4/16/2012

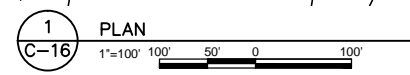
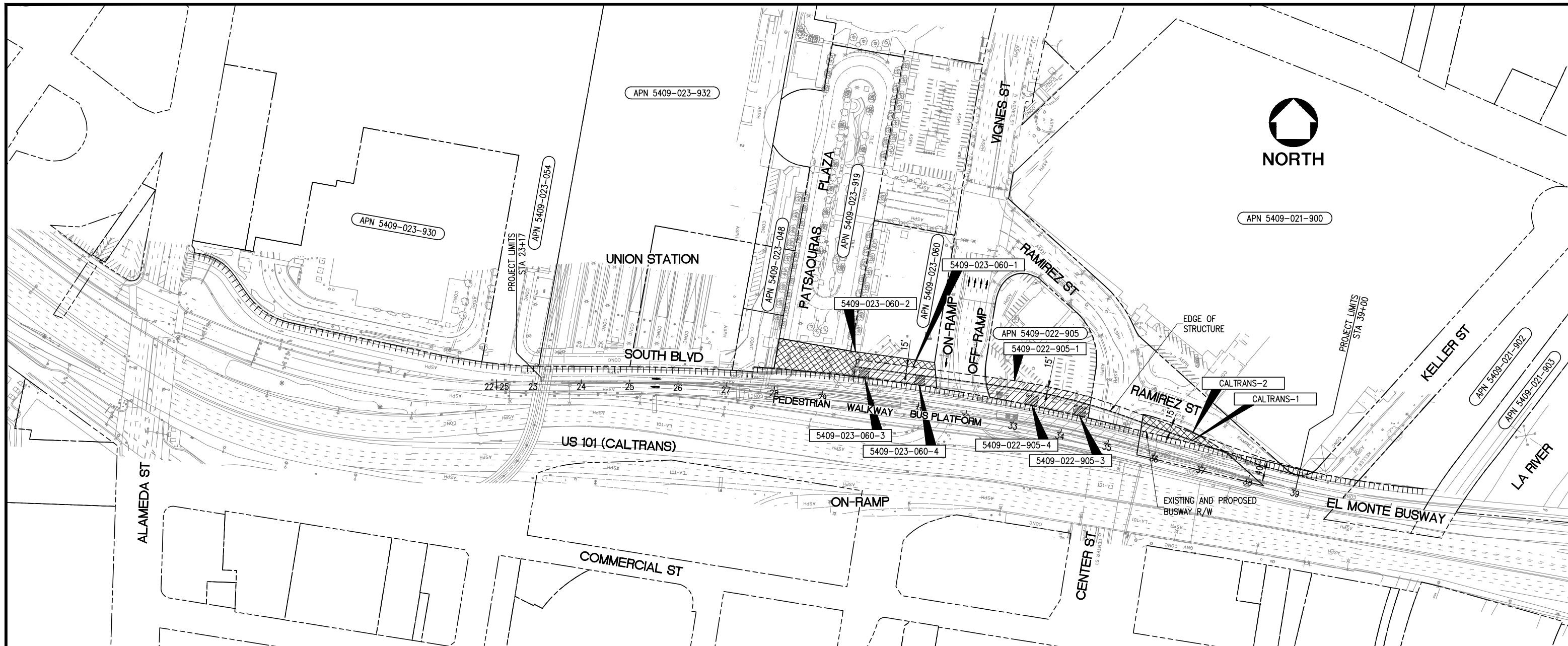
M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

RECOMMENDED _____ DATE _____ APPROVED _____ DATE _____

UNION/PATSAOURAS PLAZA BUSWAY STATION DESIGN BUILD CONTRACT No. C0970	
PAVEMENT DELINEATION SHEET 4 OF 4	

FILE/JOB NUMBER	C0970
SCALE	1" = 50'
DWG. NO.	C-15
SHEET	19 OF 80

Drawing Name: I:\Projects\4014563_0001\Drawings\CIV-C-15.dwg Plotter: Apr 25, 2012 - 3:03pm by: pariemerf



PARCEL#	TITLE CODE	GRANTOR	AREAS (SQUARE FEET OR AS NOTED)				REMARKS	RECORDATION		
			TOTAL	REQUIRED (1) (APPROX)	EXCESS (1) [UF]	REMAINDER		TYPE (3)	DATE	DOC.# (4)
5409-022-905-1	E	LACMTA	51,100	9,466		41,634	AERIAL EASEMENT			
5409-022-905-3	E	LACMTA	51,100	500		50,600	FOOTING EASEMENT			
5409-022-905-4	E	LACMTA	51,100	500		50,600	FOOTING EASEMENT			
5409-023-060-1	E	LACMTA	64,300	5,986		58,314	AERIAL EASEMENT			
5409-023-060-3	E	LACMTA	64,300	400		63,900	FOOTING EASEMENT			
5409-023-060-4	E	LACMTA	64,300	400		63,900	FOOTING EASEMENT			
CALTRANS-1	E	CALTRANS	XX	1,413		XX	MODIFY EXISTING STREET EASEMENT TO CITY OF LOS ANGELES			
CALTRANS-2	TCE	CALTRANS	XX	2,308		XX	MODIFY EXISTING STREET EASEMENT TO CITY OF LOS ANGELES			

GRANTOR NOTES

(1) AREAS SHOWN EXCLUDE UNDERLYING FEE IN THE ADJOINING PUBLIC WAY
 AC=ACRES
 (2) INDICATES UNDERLYING FEE (UF) AREA
 (Y) INDICATES INDETERMINATE UF
 TITLE CODES:
 A=ACCESS RIGHTS ONLY
 F=FEE
 E=EASEMENT
 TCE=TEMP CONSTRUCTION EASE
 T=OTHER TEMP EASE (SEE REMARKS)
 O=OTHER (SEE REMARKS)
 (3) TYPE:
 GD=GRANT DEED
 ED=EASEMENT DEED
 OC=QUITCLAIM
 DD=DIRECTOR'S DEED
 DE=DIRECTOR'S EASEMENT DEED
 DK=DIRECTOR'S QUITCLAIM DEED
 FOC=FINAL ORDER OF CONDEMNATION
 HE=HIGHWAY EASEMENT DEED
 REL=RELINQUISHMENT
 VAC=VACATION
 JUA=JOINT USE AGREEMENT
 CCUA=CONSENT TO COMMON USE AGREEMENT
 (4) DOCUMENT OR INSTRUMENT NUMBER

NOTES

BEARINGS HEREON ARE BASED ON THE CENTERLINE OF KELLER STREET BEING N 42°02'16" E BETWEEN RAMIREZ STREET AND CESAR CHAVEZ AVENUE AS CALCULATED FROM COORDINATES SHOWN ON CALTRANS MONUMENTATION MAP 01-LA-101-0.00-0.76, SAID MAP BEING BASED ON CALIFORNIA COORDINATE SYSTEM NAD 83, DATED 1993--ASSUMED TO BE 1991.35 EPOCH.
 ALL DISTANCES ARE IN FEET UNLESS OTHERWISE NOTED.

LEGEND

ACCESS PROHIBITED
 ACCESS SUPERSEDED
 EXISTING R/W SUPERSEDED
 ACCESS OPENING (PRIVATE)
 INDICATES RADIAL BEARING
 INDICATES FOUND MONUMENT AS NOTED
 INDICATES CALCULATED POINT.
 (DOES NOT IMPLY MONUMENT SET)
 REQUIRED FOR OTHERS

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				ISSUED FOR BID
10/15/10				ADVANCED CONCEPTUAL ENGINEERING

STV
 STV Incorporated
 1055 West 7th Street, Suite 3150
 Los Angeles, CA 90017
 www.stvinc.com

DESIGNED
 M. SATISH
 DRAWN BY
 M. PARTENHEIMER
 CHECKED
 M. SATISH
 DATE
 10/15/2010









M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

FILE/JOB NUMBER C0970
 SCALE 1" = 100'
 DWG. NO. C-16
 SHEET 20 OF 80

LEGEND

-  WORK AREA
-  PROPOSED TEMP. RAILING (TYPE-K)
-  PROPOSED CRASH CUSHION
-  PROPOSED TEMPORARY TRAFFIC SIGN
-  PORTABLE FLASHING BEACON
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  TRAFFIC DIRECTION
-  PROPOSED PAVEMENT MARKERS/TRAFFIC LINES PER CALTRANS 2006 STANDARD PLAN

PCMS

(PLACE 1/4 MILE IN ADVANCE FROM WORK AREA)

W	O	R	K							R	E	D	U	C	E	D			
A	R	E	A							S	P	E	E	D					
										A	H	E	A	D					

MESSAGE 1

MESSAGE 2

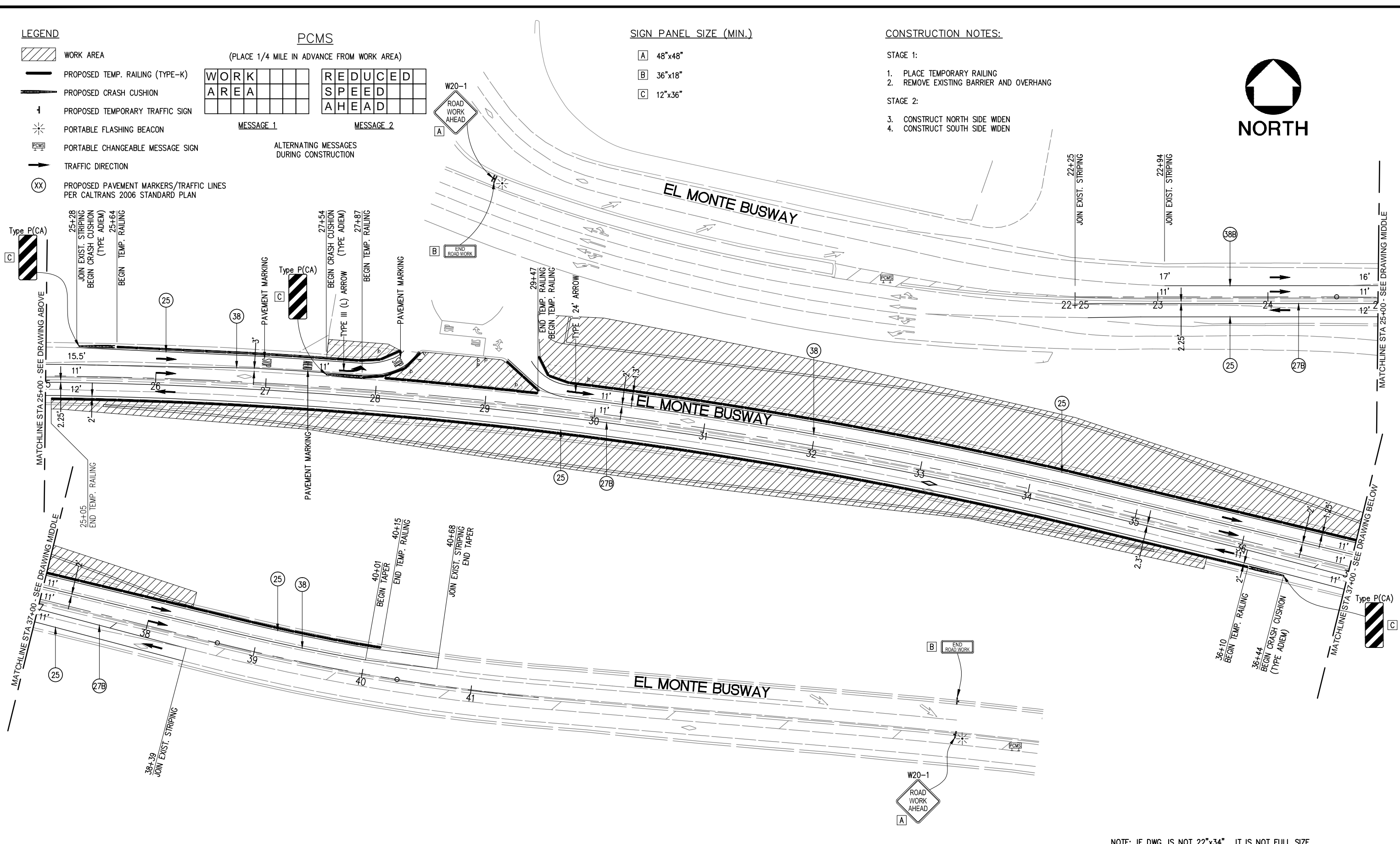
ALTERNATING MESSAGES DURING CONSTRUCTION

SIGN PANEL SIZE (MIN.)

- A** 48"x48"
- B** 36"x18"
- C** 12"x36"

CONSTRUCTION NOTES:

- STAGE 1:
1. PLACE TEMPORARY RAILING
 2. REMOVE EXISTING BARRIER AND OVERHANG
- STAGE 2:
3. CONSTRUCT NORTH SIDE WIDEN
 4. CONSTRUCT SOUTH SIDE WIDEN



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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	05/07/12			ISSUED FOR BID
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STV
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PLANS PREPARED BY:
ITERIS
 801 S. Grand Ave, Suite 530
 Los Angeles, CA 90017-4633
 Phone: (213) 488-0345
 Fax: (213) 488-9440

DESIGNED BY: F. ATIENZA
 DRAWN BY: F. ATIENZA
 CHECKED BY: K. DERDERIAN
 DATE: 4/7/2011

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

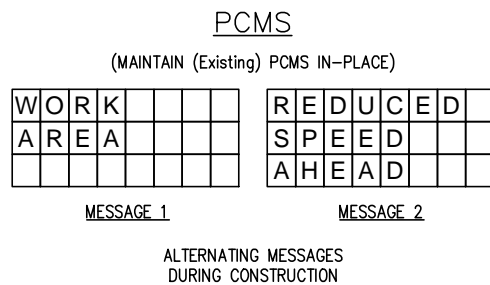
TRAFFIC HANDLING PLAN
BUSWAY BRIDGE
STAGE-1 AND 2

FILE/JOB NUMBER	C0970
SCALE	1" = 40'
DWG. NO.	TH-01
SHEET	21 OF 80

Drawing Name: I:\Projects\4014653\4014653_0001\Drawings\DWG\TH-01.dwg Plotter: Apr 25, 2012 - 3:03pm by: parient

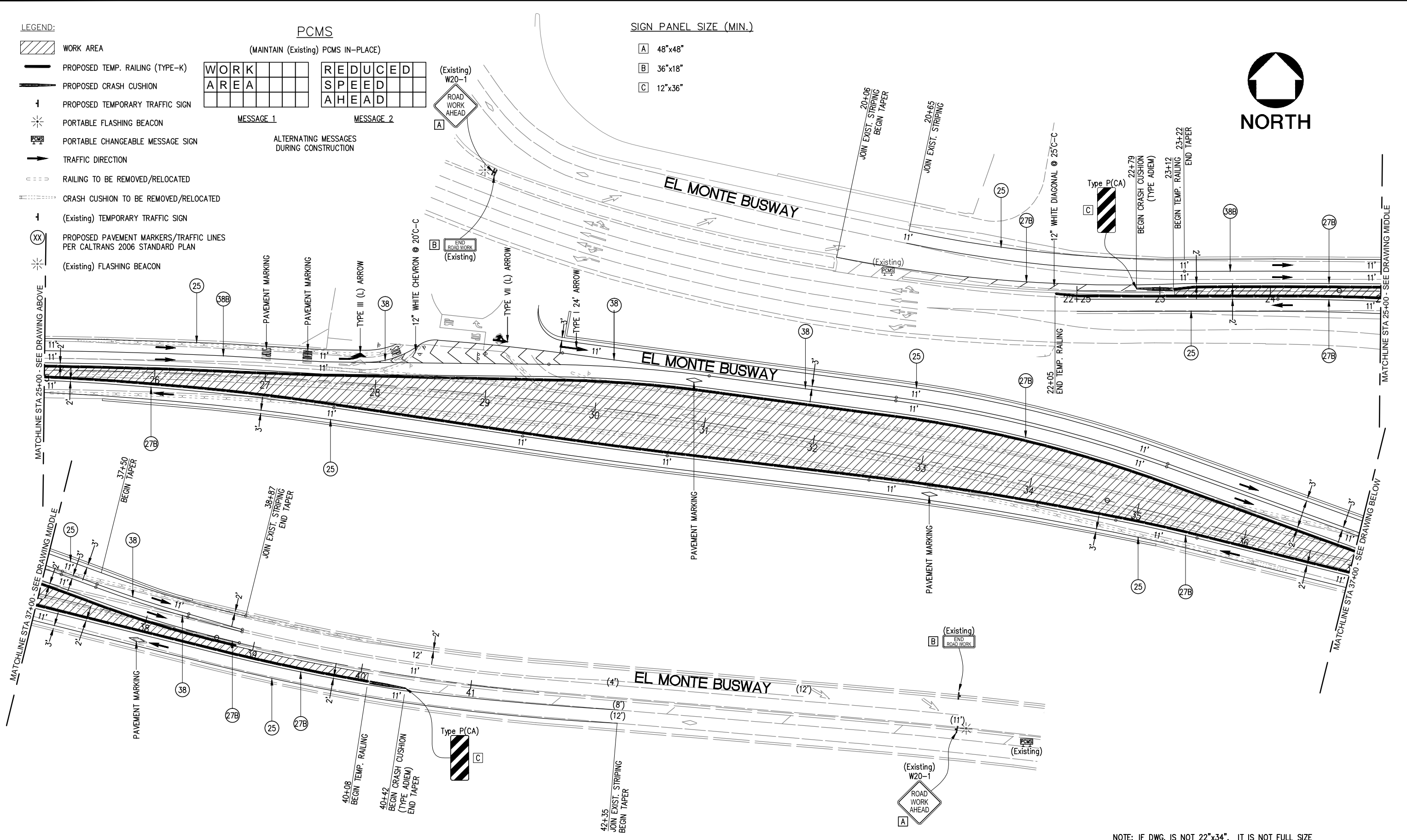
LEGEND:

- WORK AREA
- PROPOSED TEMP. RAILING (TYPE-K)
- PROPOSED CRASH CUSHION
- PROPOSED TEMPORARY TRAFFIC SIGN
- PORTABLE FLASHING BEACON
- PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC DIRECTION
- RAILING TO BE REMOVED/RELOCATED
- CRASH CUSHION TO BE REMOVED/RELOCATED
- (Existing) TEMPORARY TRAFFIC SIGN
- PROPOSED PAVEMENT MARKERS/TRAFFIC LINES PER CALTRANS 2006 STANDARD PLAN
- (Existing) FLASHING BEACON



SIGN PANEL SIZE (MIN.)

- A 48"x48"
- B 36"x18"
- C 12"x36"



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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Fax: (213) 488-9440

DESIGNED BY: F. ATIENZA
DRAWN BY: F. ATIENZA
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DATE: 4/7/2011

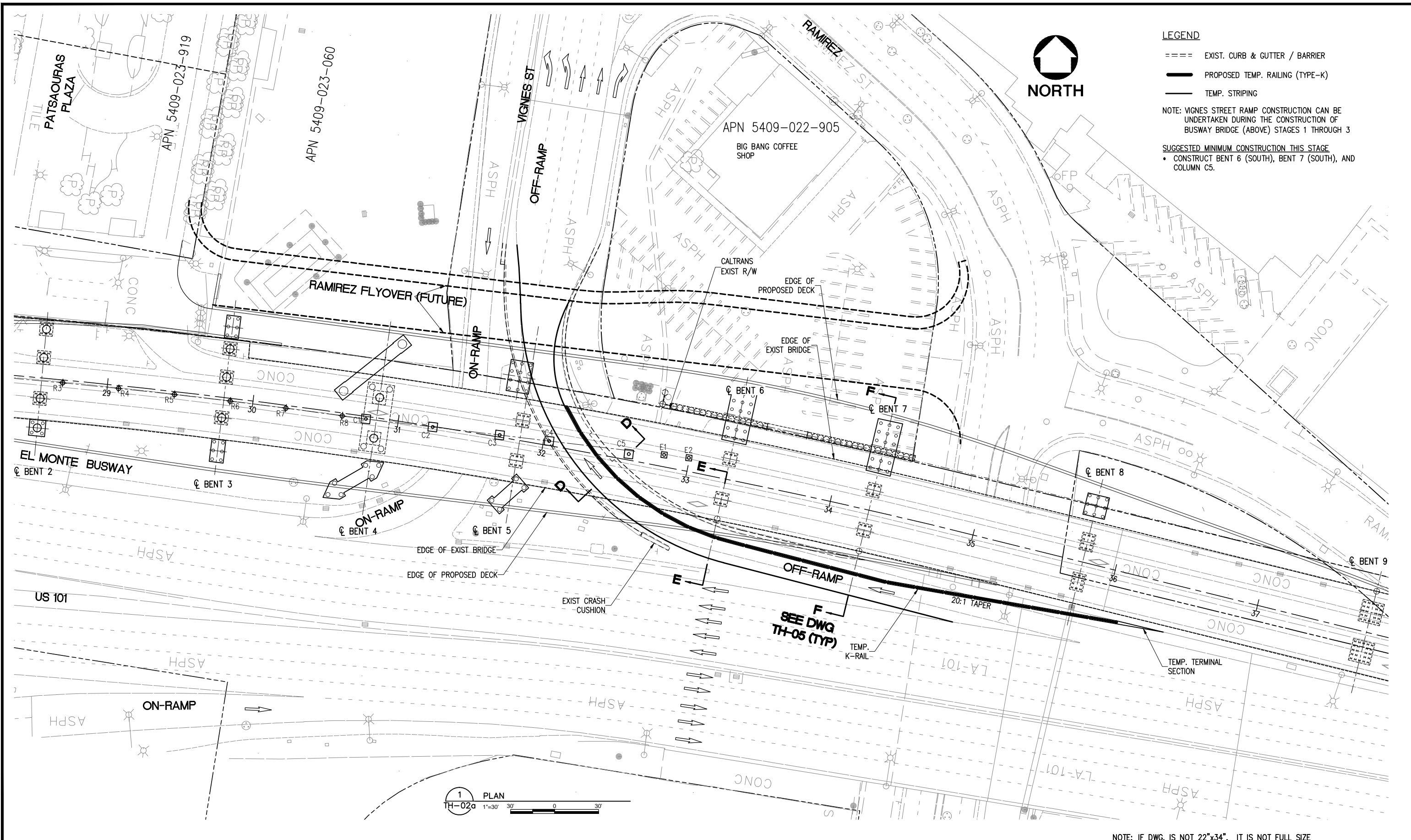
Metro LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

TRAFFIC HANDLING PLAN
BUSWAY BRIDGE
STAGE-3

FILE/JOB NUMBER	C0970
SCALE	1" = 40'
DWG. NO.	TH-02
SHEET	22 OF 80

Drawing Name: I:\Projects\4014563_0001\Drawings\CA\TH-02.dwg Plotted: Apr 25, 2012 - 3:04pm by: parment



LEGEND

- ==== EXIST. CURB & GUTTER / BARRIER
- PROPOSED TEMP. RAILING (TYPE-K)
- TEMP. STRIPING

NOTE: VIGNES STREET RAMP CONSTRUCTION CAN BE UNDERTAKEN DURING THE CONSTRUCTION OF BUSWAY BRIDGE (ABOVE) STAGES 1 THROUGH 3

SUGGESTED MINIMUM CONSTRUCTION THIS STAGE

- CONSTRUCT BENT 6 (SOUTH), BENT 7 (SOUTH), AND COLUMN C5.



1 PLAN
TH-02a 1"=30' 30' 0' 30'

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
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www.stvinc.com

DESIGNED M. SATISH
DRAWN BY M. PARTENHEIMER
CHECKED M. SATISH
DATE 4/13/2012

M
Metro

LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

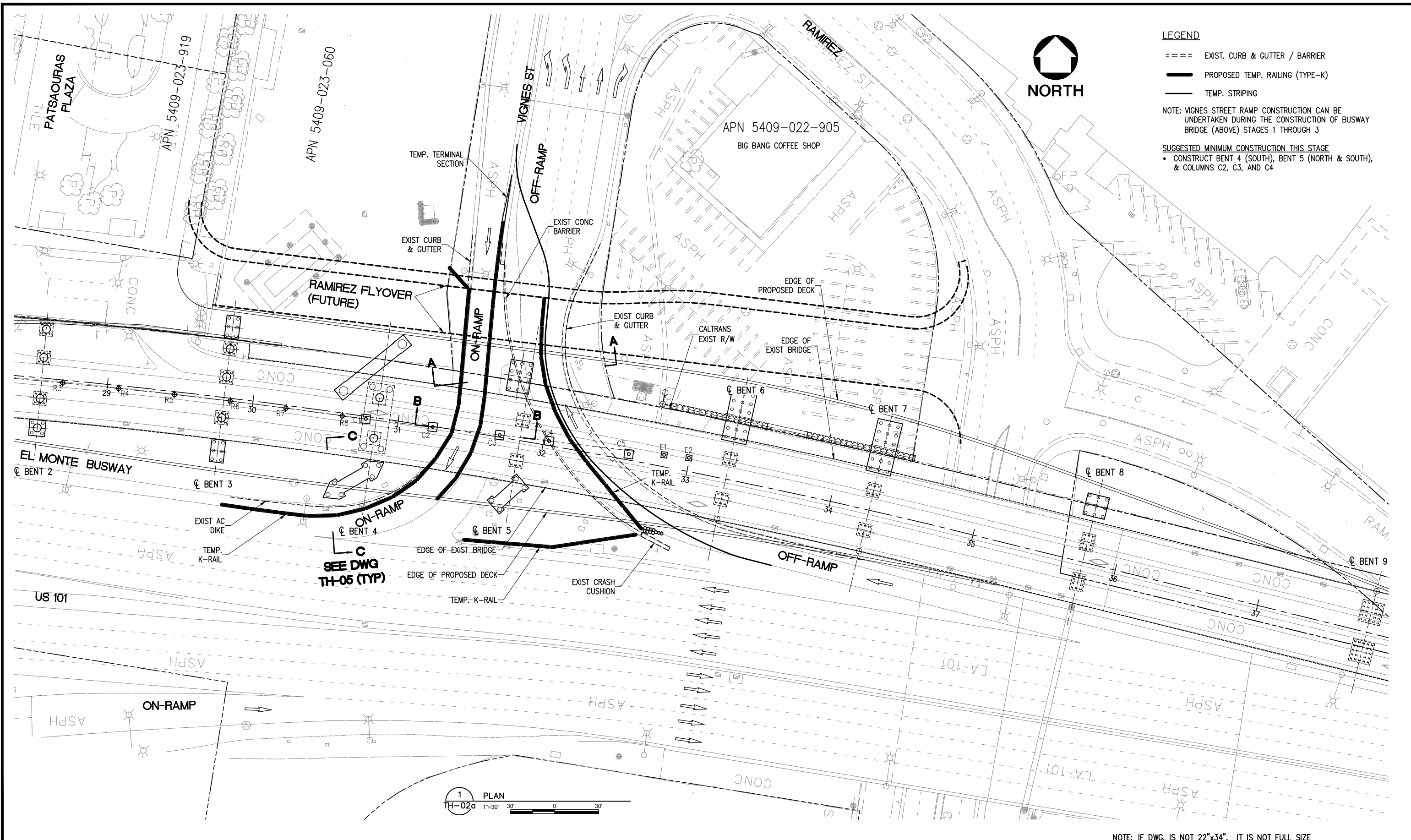
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

**TRAFFIC HANDLING
VIGNES STREET RAMP
STAGE A**

FILE/JOB NUMBER C0970
SCALE 1" = 30'
DWG. NO. TH-03
SHEET 23 OF 80

Drawing Name: I:\Projects\4014653_0001\Drawings\CV\TH-03.dwg Plotter: Apr 25, 2012 3:04pm by: partent



LEGEND

==== EXIST. CURB & GUTTER / BARRIER

— PROPOSED TEMP. RAILING (TYPE-K)

— TEMP. STRIPING

NOTE: VIGNES STREET RAMP CONSTRUCTION CAN BE UNDERTAKEN DURING THE CONSTRUCTION OF BUSWAY BRIDGE (ABOVE) STAGES 1 THROUGH 3

SUGGESTED MINIMUM CONSTRUCTION THIS STAGE

- CONSTRUCT BENT 4 (SOUTH), BENT 5 (NORTH & SOUTH), & COLUMNS C2, C3, AND C4



1 PLAN
TH-02a 1"=30'

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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DESIGNED M. SATISH
DRAWN BY M. PARTENHEIMER
CHECKED M. SATISH
DATE 4/16/2012

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

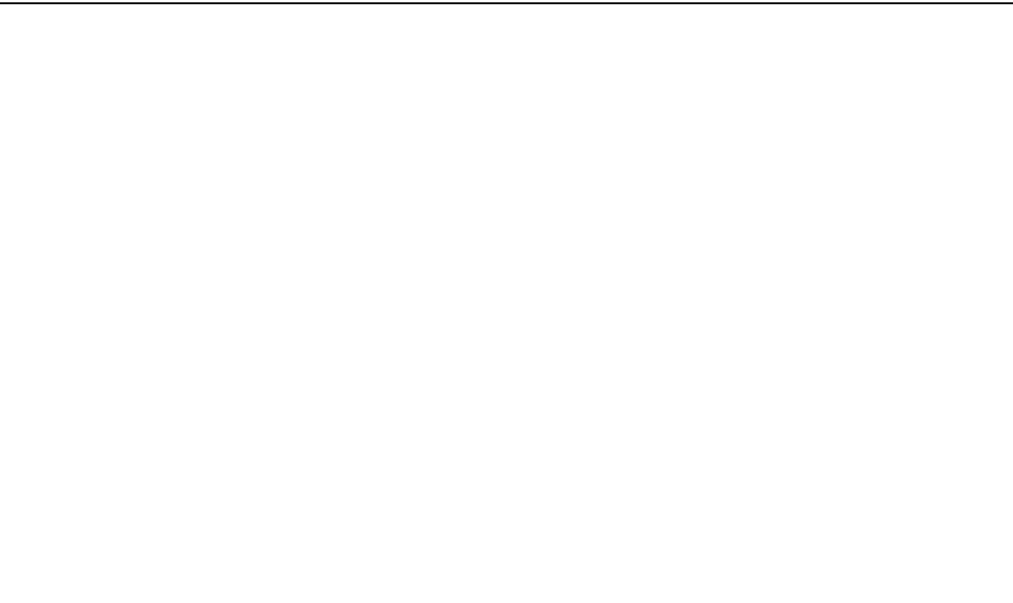
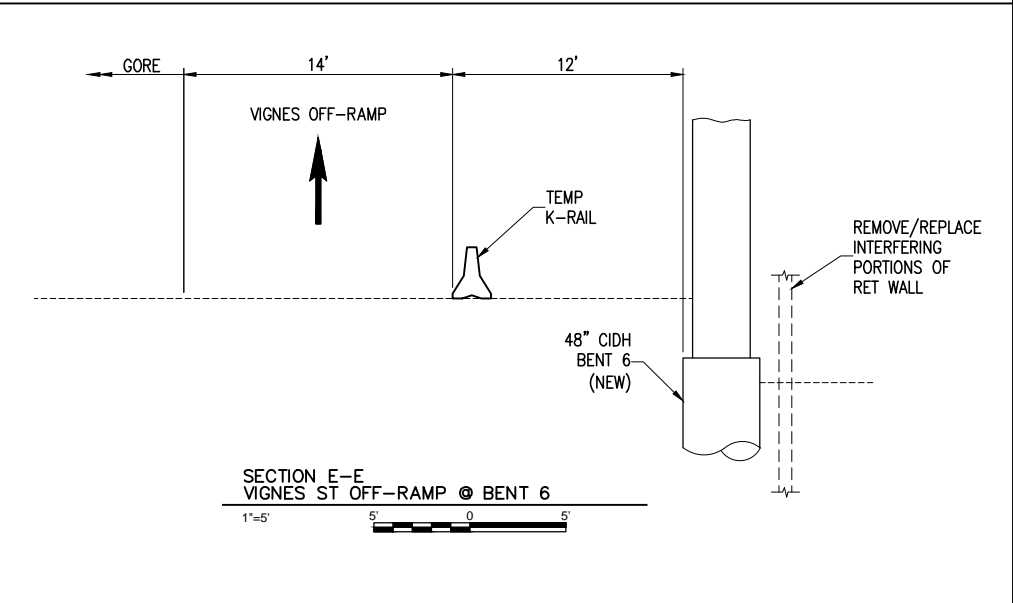
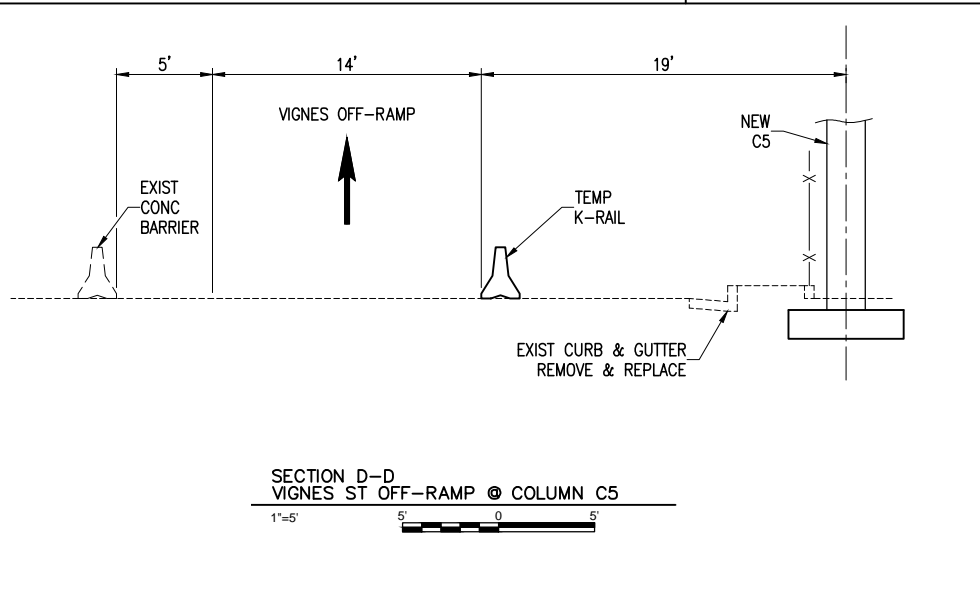
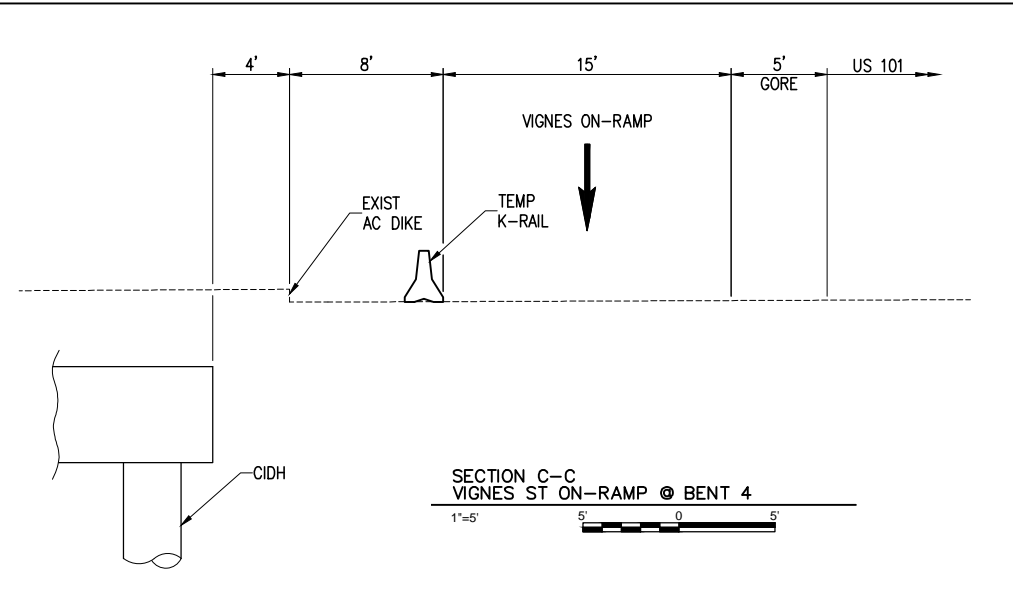
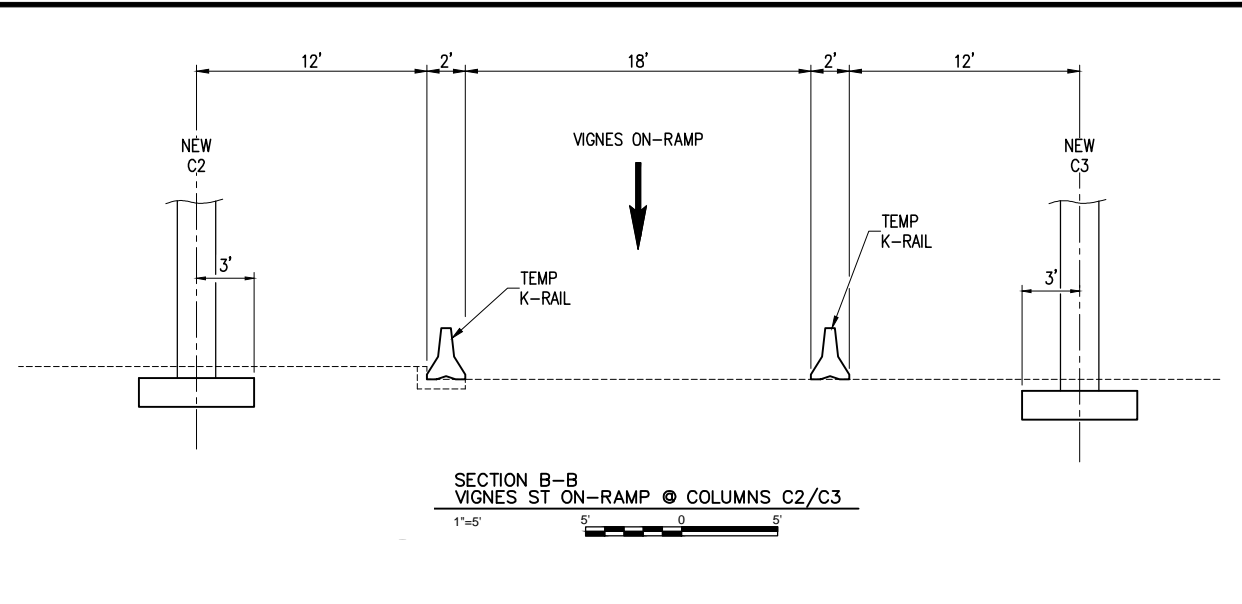
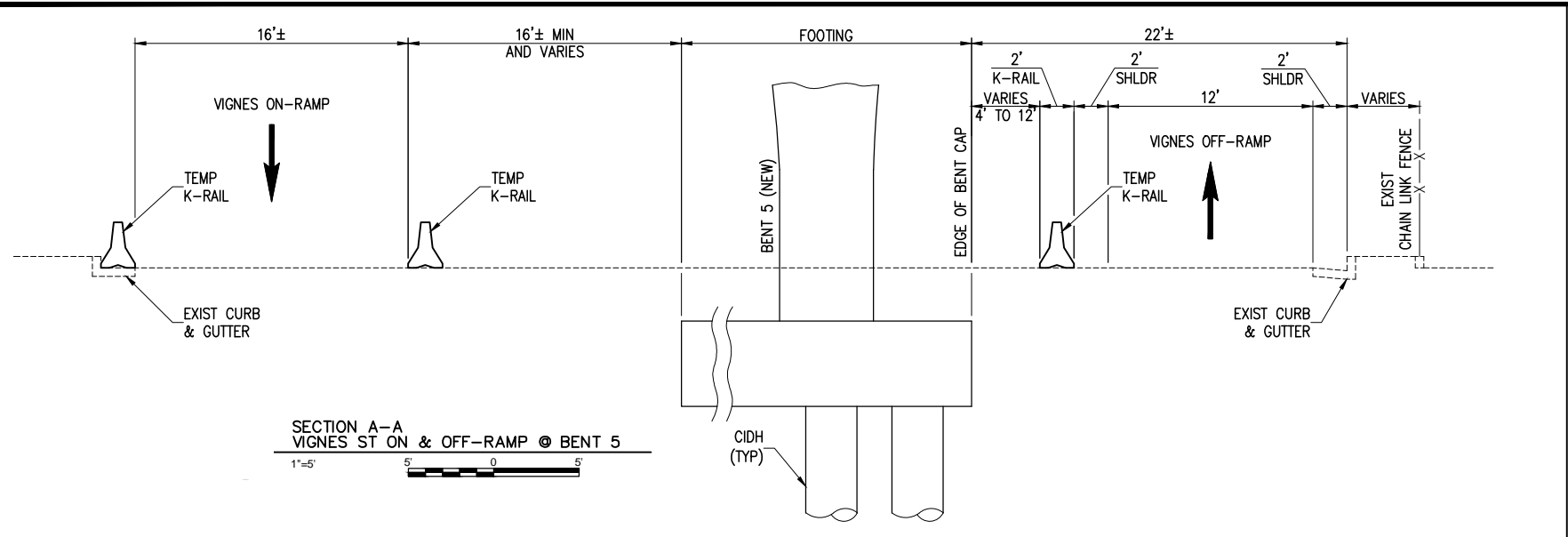
RECOMMENDED	DATE	APPROVED	DATE
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UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

**TRAFFIC HANDLING
VIGNES STREET RAMP
STAGE B**

FILE/JOB NUMBER C0970
SCALE 1" = 30'
DWG. NO. TH-04
SHEET 24 OF 80

Drawing Name: I:\Projects\4014653_0001\Drawings\DWG\TH-04.dwg Plotter: Apr 25, 2012 3:04pm by partent



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

NOTE: SEE DWG S-11 FOR MORE DETAILS.

REV.	DATE	BY	APP.	DESCRIPTION
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DESIGNED	M. SATISH
DRAWN BY	M.PARTENHEIMER
CHECKED	M. SATISH
DATE	4/16/2012

Metro LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

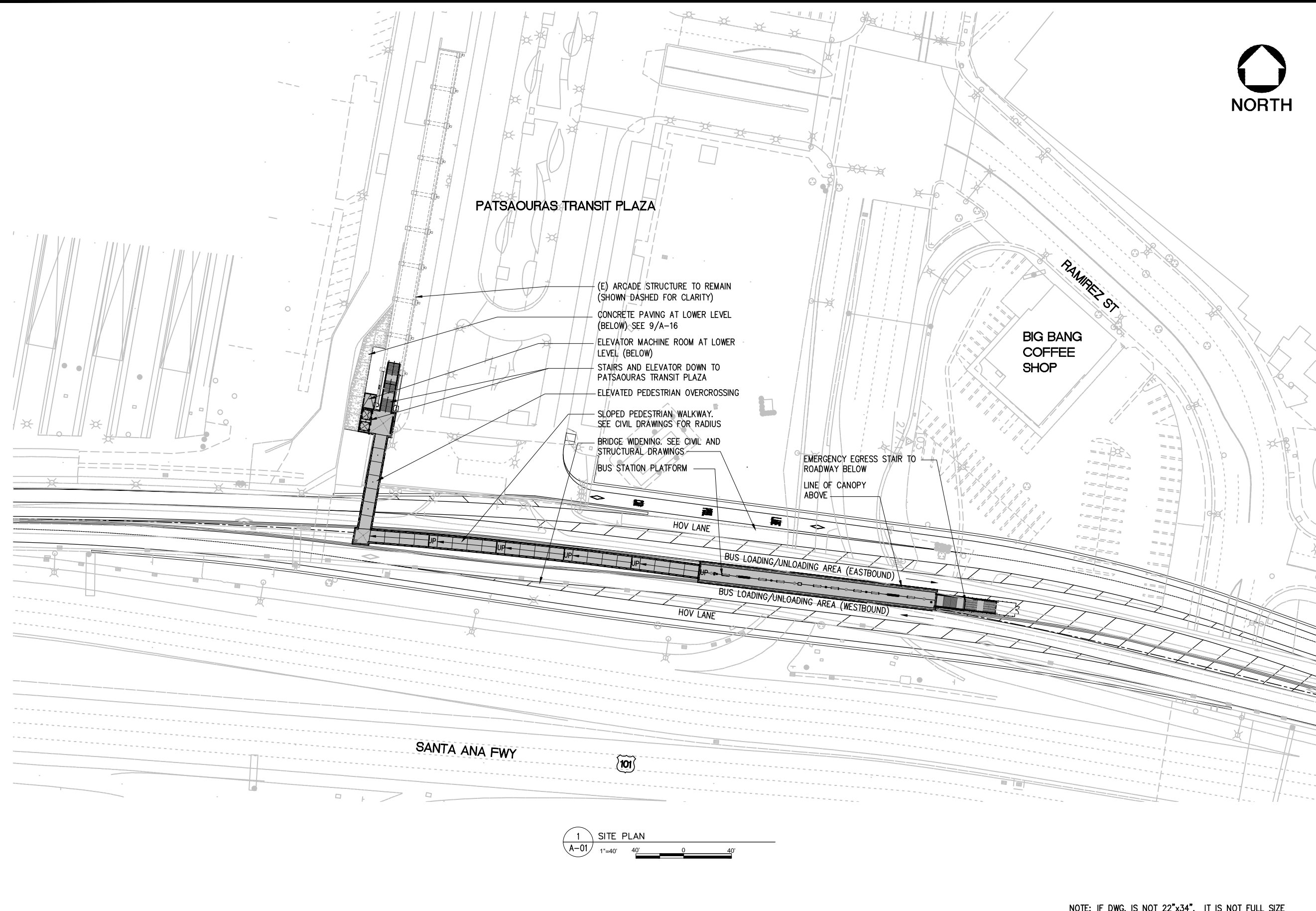
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

**TRAFFIC HANDLING
VIGNES STREET RAMPS
SECTIONS - STAGES A AND B**

FILE/JOB NUMBER	C0970
SCALE	1"=5'
DWG. NO.	TH-05
SHEET	25 OF 80

Drawing Name: I:\Projects\4014653\014653_0001\Drawings\DWG\TH-05.dwg Plotter: Apr 25, 2012 3:04pm by: partent



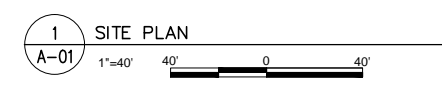
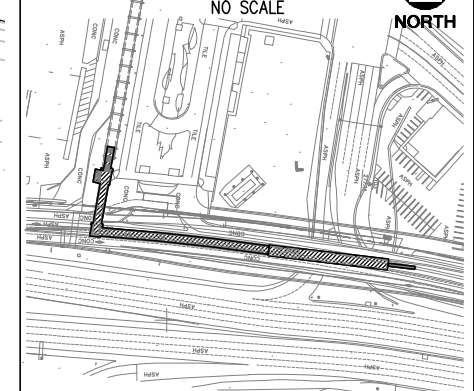
GENERAL NOTES

- SEE CIVIL DRAWINGS AND STRUCTURAL DRAWINGS FOR FREEWAY WIDENING
- PROTECT ALL FRESH AIR INTAKES FROM DUST, FUMES AND ODOR
- PROTECT-IN-PLACE ALL EXISTING ITEMS TO REMAIN ADJACENT TO DEMOLITION AND/OR NEW CONSTRUCTION
- ALL EXPOSED AREAS SUBJECT TO FOOT TRAFFIC SHALL BE SLIP RESISTANT COEFFICIENT OF FRICTION 0.6 MIN WET AND DRY IN FLAT AREAS, 0.8 IN SLOPING AREAS (ASTM C-1028)
- PROVIDE CONDUITS WITH PULL-CORDS FOR CCTV SECURITY CAMERAS, TICKET VENDING MACHINES (TVM) AND STAND ALONE TICKET VALIDATORS (SAV), MAP CASES, ILLUMINATED SIGNAGE, P-TEL AND E-TEL.
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- BUS PLATFORM TO FOLLOW SLOPE OF FREEWAY LONGITUDINALLY. 8" HIGH CURB TO BE MAINTAINED FOR ENTIRE LENGTH OF PLATFORM
- SEE ENLARGED ELEVATOR PLAN AND SECTION DRAWING A-13 FOR ELEVATOR PLAN AT LOWER LEVEL AND AT PLAZA LEVEL
- ALL PAINTED METAL SHALL BE PAINTED WITH A BRONZE COLOR FINISH UNLESS NOTED OTHERWISE
- ALL GRATINGS IN WALKWAY SURFACES (SUCH AS TRENCH DRAIN GRATE AT LANDINGS AS INDICATED) SHALL HAVE SPACES NO GREATER THAN 1/2 INCH WIDE IN ONE DIRECTION. IF GRATINGS HAVE ELONGATED OPENINGS THEN THEY SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.
- INTEGRAL COLOR OF ALL CONCRETE SHALL MATCH EXISTING ARCADE STRUCTURE
- FOR LOCATION OF ALL SIGNAGE, SEE SIGNAGE AND WAYFINDING DRAWINGS

LEGEND

- BUSWAY STATION - PLATFORM, SLOPED PEDESTRIAN WALKWAY AND PEDESTRIAN OVERCROSSING
- EXISTING TO REMAIN
- BRIDGE WIDENING AND PLAZA CONSTRUCTION. SEE CIVIL AND STRUCTURAL DRAWINGS

KEY PLAN
NO SCALE



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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05/07/12				ISSUED FOR BID
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**EHRENKRANTZ
ECKSTUT
& KUHN
ARCHITECTS**

DESIGNED
EEK
DRAWN BY
S.P. CASANO
CHECKED
M. FERNANDES
DATE
4/8/2011

M LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY
Metro

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970
SITE PLAN

FILE/JOB NUMBER	C0970
SCALE	1" = 40'
DWG. NO.	A-01
SHEET	26 OF 80

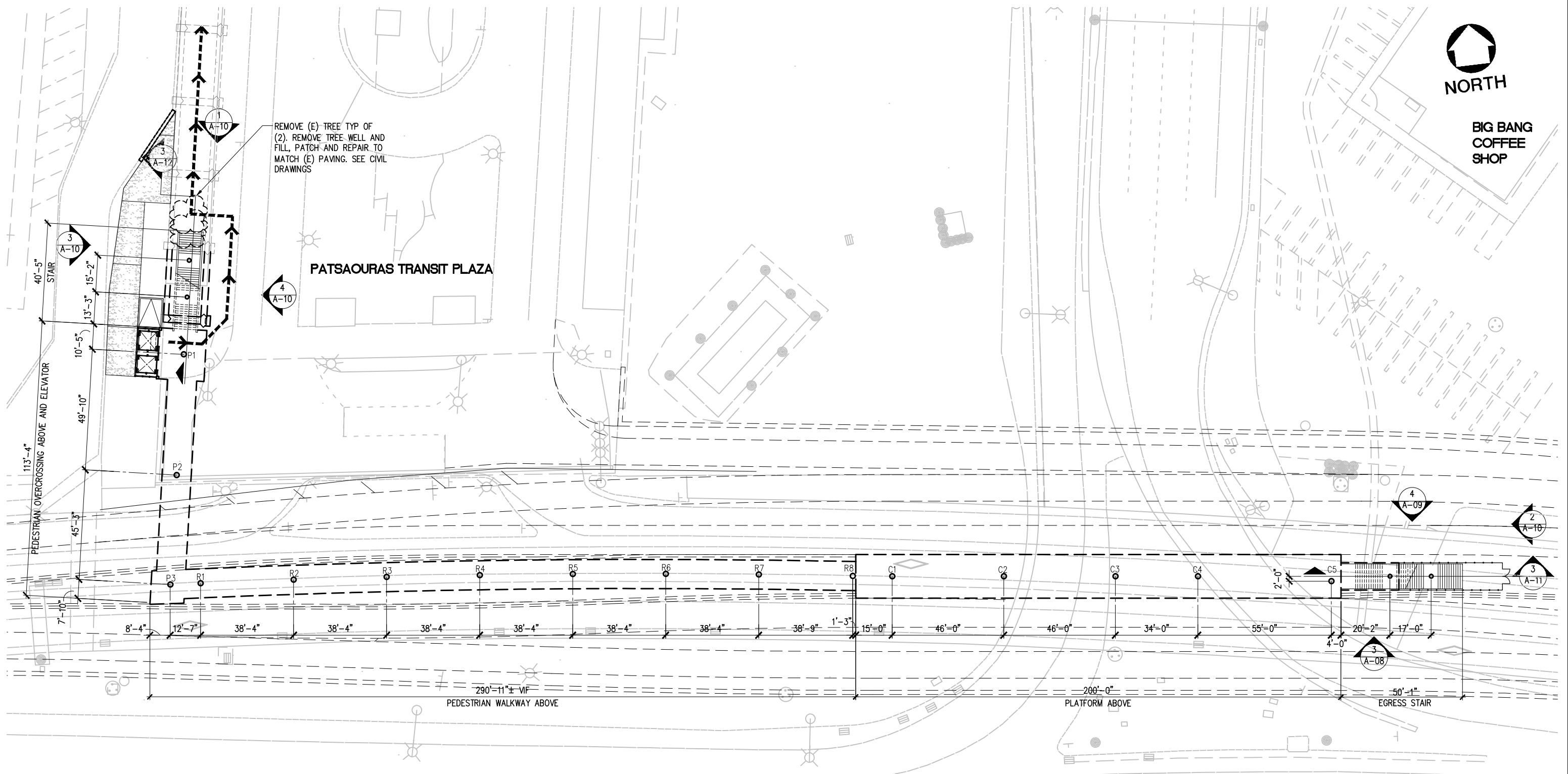
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**BIG BANG
COFFEE
SHOP**

PATSAOURAS TRANSIT PLAZA

REMOVE (E) TREE TYP OF
(2). REMOVE TREE WELL AND
FILL, PATCH AND REPAIR TO
MATCH (E) PAVING. SEE CIVIL
DRAWINGS



1 OVERALL PLAZA LEVEL REFERENCE PLAN
A-01A 1"=20'

LEGEND

-----> DIRECTION OF PEDESTRIAN PATH OF TRAVEL

- NOTE:
- SEE SITE PLAN A-01 FOR ADDITIONAL NOTES
 - SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING COLUMNS

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M LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY
Metro

RECOMMENDED DATE APPROVED DATE



UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

OVERALL PLAZA LEVEL REFERENCE PLAN

FILE/JOB NUMBER	C0970
SCALE	1" = 20'
DWG. NO.	A-01A
SHEET	27 OF 80

Drawing Name: I:\Projects\4014563\4014563_0001\Drawings\ARCH\A-01A.dwg Plot Date: Apr 25, 2012 8:04pm by: parham

LEGEND

-  SAFE DISPERSAL AREA. SEE EXITING REQUIREMENTS FOR OCCUPANT LOAD CALCULATION
-  DIRECTION OF EXIT PATH OF TRAVEL
- (000) OCCUPANT LOAD PER EXIT

NOTE: SEE SITE PLAN A-01 FOR ADDITIONAL NOTES

EXITING REQUIREMENTS

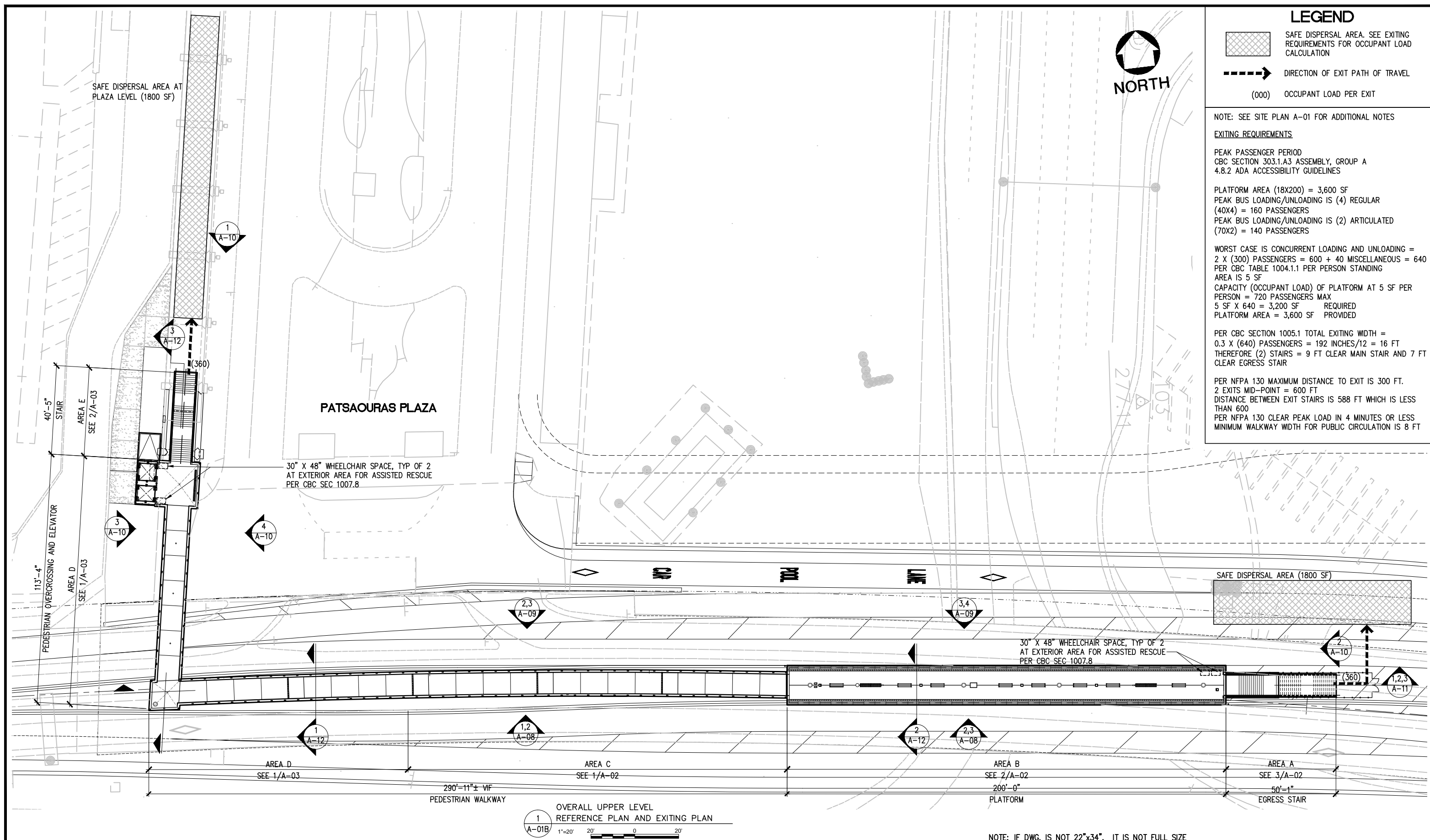
PEAK PASSENGER PERIOD
 CBC SECTION 303.1.A3 ASSEMBLY, GROUP A
 4.8.2 ADA ACCESSIBILITY GUIDELINES

PLATFORM AREA (18X200) = 3,600 SF
 PEAK BUS LOADING/UNLOADING IS (4) REGULAR (40X4) = 160 PASSENGERS
 PEAK BUS LOADING/UNLOADING IS (2) ARTICULATED (70X2) = 140 PASSENGERS

WORST CASE IS CONCURRENT LOADING AND UNLOADING =
 2 X (300) PASSENGERS = 600 + 40 MISCELLANEOUS = 640
 PER CBC TABLE 1004.1.1 PER PERSON STANDING AREA IS 5 SF
 CAPACITY (OCCUPANT LOAD) OF PLATFORM AT 5 SF PER PERSON = 720 PASSENGERS MAX
 5 SF X 640 = 3,200 SF REQUIRED
 PLATFORM AREA = 3,600 SF PROVIDED

PER CBC SECTION 1005.1 TOTAL EXITING WIDTH =
 0.3 X (640) PASSENGERS = 192 INCHES/12 = 16 FT
 THEREFORE (2) STAIRS = 9 FT CLEAR MAIN STAIR AND 7 FT CLEAR EGRESS STAIR

PER NFPA 130 MAXIMUM DISTANCE TO EXIT IS 300 FT.
 2 EXITS MID-POINT = 600 FT
 DISTANCE BETWEEN EXIT STAIRS IS 588 FT WHICH IS LESS THAN 600
 PER NFPA 130 CLEAR PEAK LOAD IN 4 MINUTES OR LESS
 MINIMUM WALKWAY WIDTH FOR PUBLIC CIRCULATION IS 8 FT



1 OVERALL UPPER LEVEL REFERENCE PLAN AND EXITING PLAN
 A-01B 1"=20' 20' 0 20'

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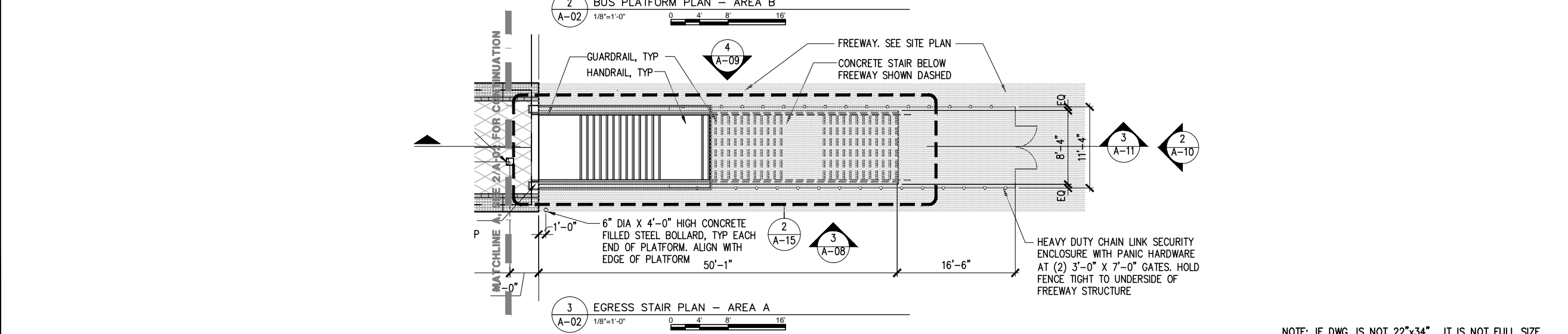
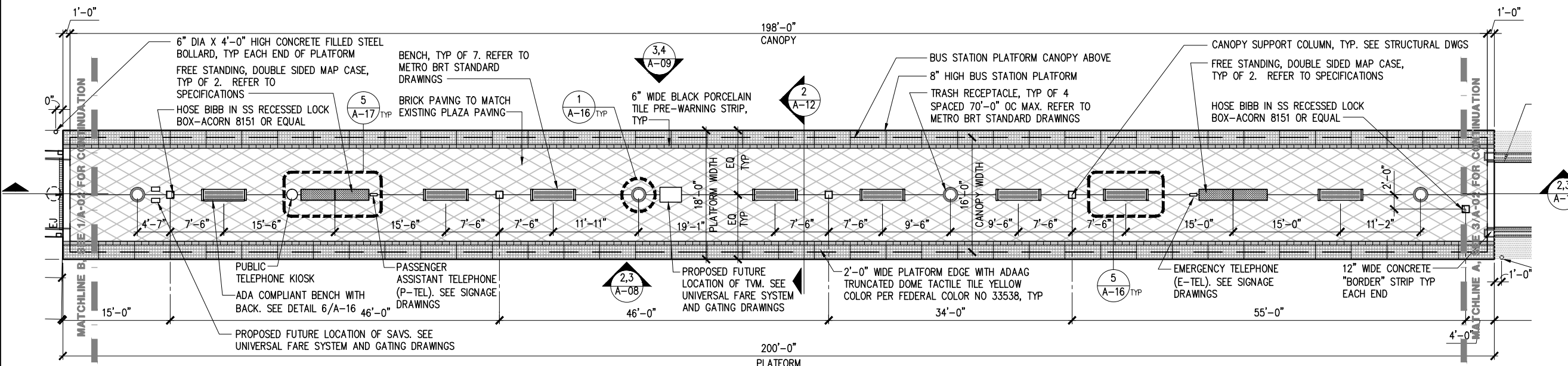
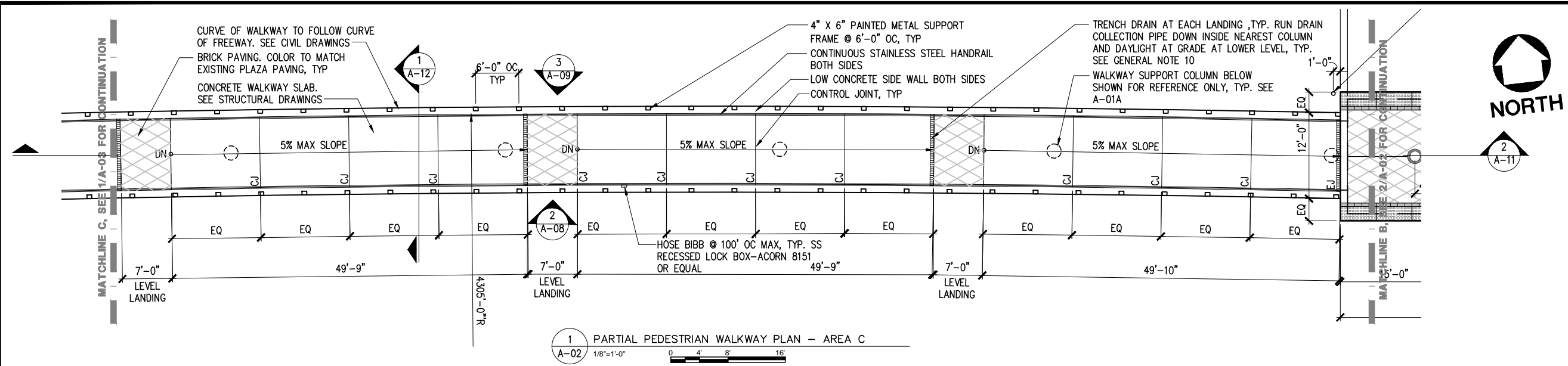
DESIGNED: EEK
 DRAWN BY: S.P. CASANO
 CHECKED: M. FERNANDES
 DATE: 4/8/2011

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UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

OVERALL UPPER LEVEL REFERENCE PLAN AND EXITING PLAN

FILE/JOB NUMBER	C0970
SCALE	1" = 20'
DWG. NO.	A-01B
SHEET	28 OF 80



- ### GENERAL NOTES
- SEE CIVIL DRAWINGS AND STRUCTURAL DRAWINGS FOR FREEWAY WIDENING
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UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

FILE/JOB NUMBER
C0970

SCALE
1/8" = 1'-0"

DWG. NO.
A-02

SHEET
29 OF 80

GENERAL NOTES

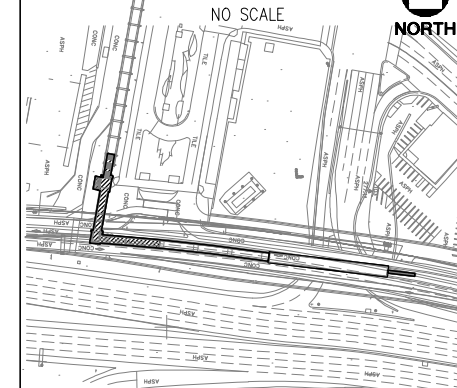
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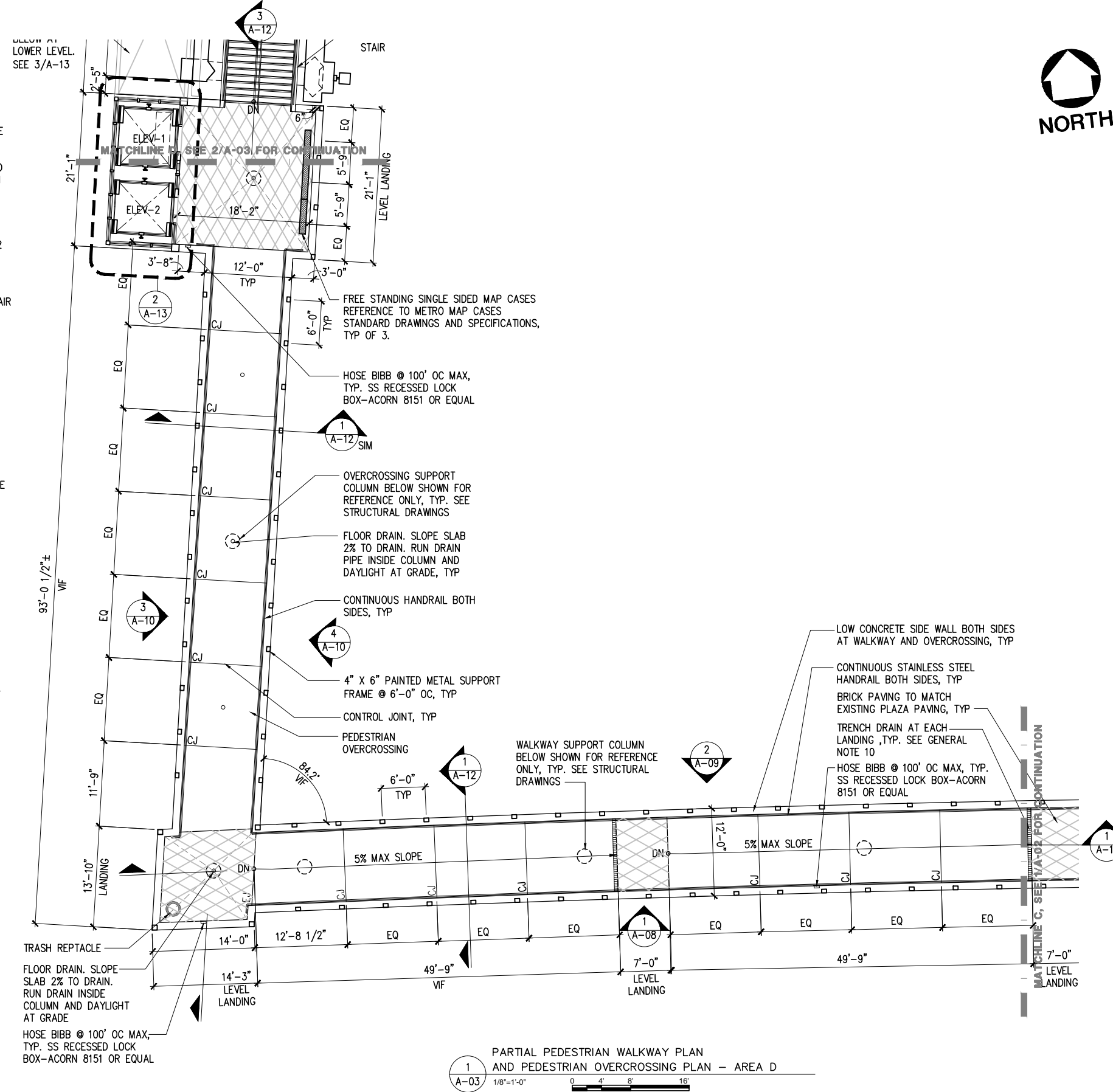
LEGEND

- BRICK PAVING TO MATCH EXISTING PLAZA PAVING

KEY PLAN



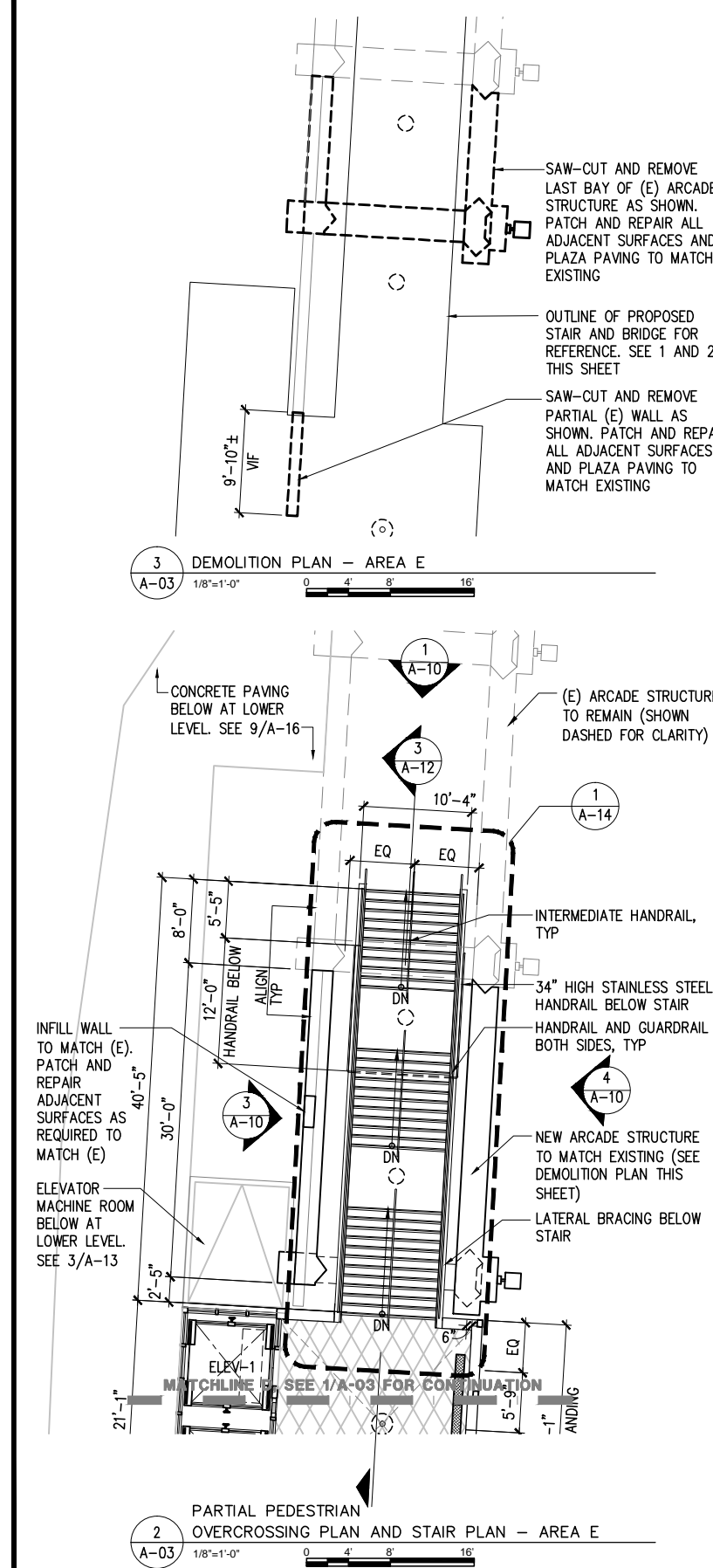
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3 DEMOLITION PLAN - AREA E
A-03 1/8"=1'-0" 0 4 8 16

2 PARTIAL PEDESTRIAN OVERCROSSING PLAN AND STAIR PLAN - AREA E
A-03 1/8"=1'-0" 0 4 8 16

1 PARTIAL PEDESTRIAN WALKWAY PLAN AND PEDESTRIAN OVERCROSSING PLAN - AREA D
A-03 1/8"=1'-0" 0 4 8 16



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DESIGNED: E.E.K.
DRAWN BY: S.P. CASANO
CHECKED: M. FERNANDES
DATE: 10/15/2010



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UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970
FILE/JOB NUMBER: C0970
SCALE: 1/8" = 1'-0"
DWG. NO.: A-03
SHEET: 30 OF 80

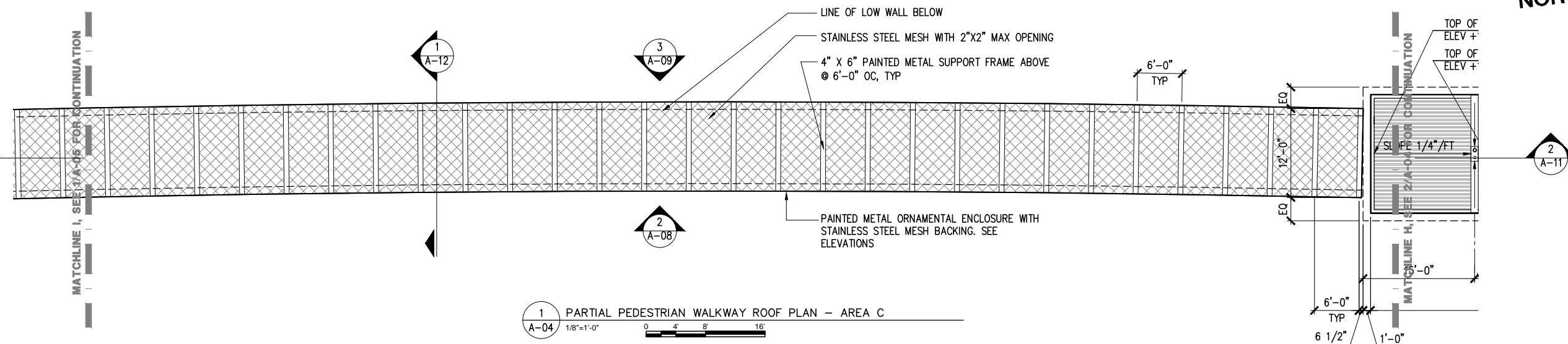
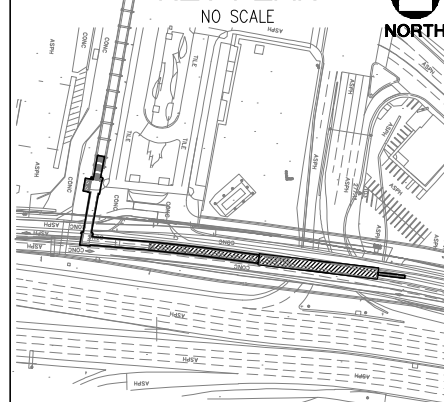
GENERAL NOTES

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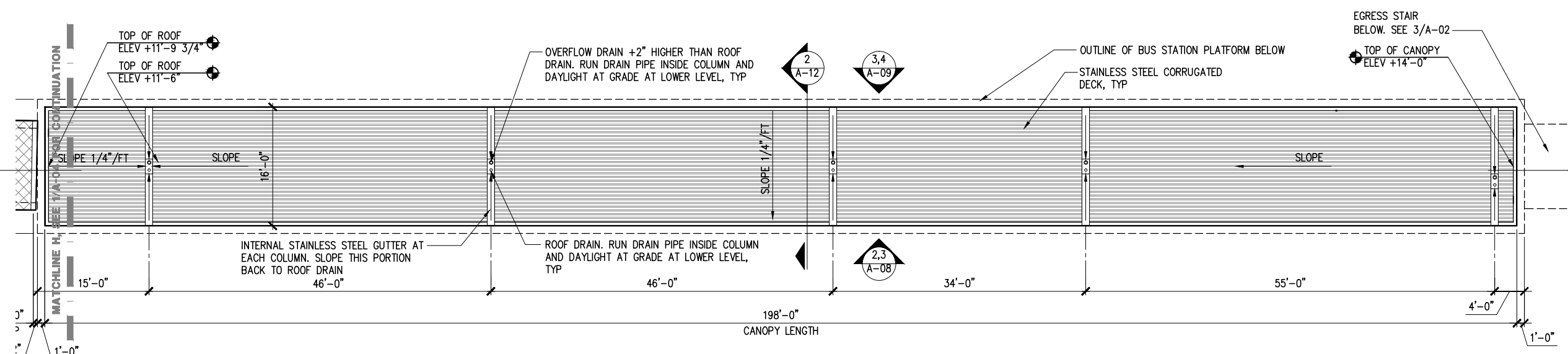
LEGEND

-  STAINLESS STEEL MESH WITH 2" X 2" MAXIMUM OPENING
-  STAINLESS STEEL CORRUGATED DECK

KEY PLAN



1 PARTIAL PEDESTRIAN WALKWAY ROOF PLAN - AREA C
A-04 1/8"=1'-0"



2 BUS PLATFORM ROOF PLAN - AREA B
A-04 1/8"=1'-0"

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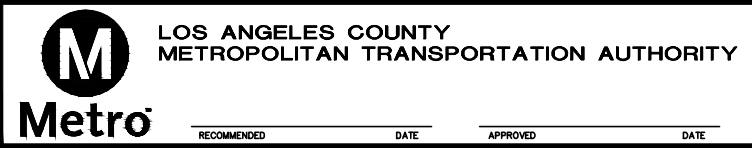


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S.P. CASANO
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M. FERNANDES
DATE
4/8/2011



LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

PARTIAL PEDESTRIAN WALKWAY ROOF PLAN - AREA C
BUS PLATFORM ROOF PLAN - AREA B

FILE/JOB NUMBER	C0970
SCALE	1/8" = 1'-0"
DWG. NO.	A-04
SHEET	31 OF 80

GENERAL NOTES

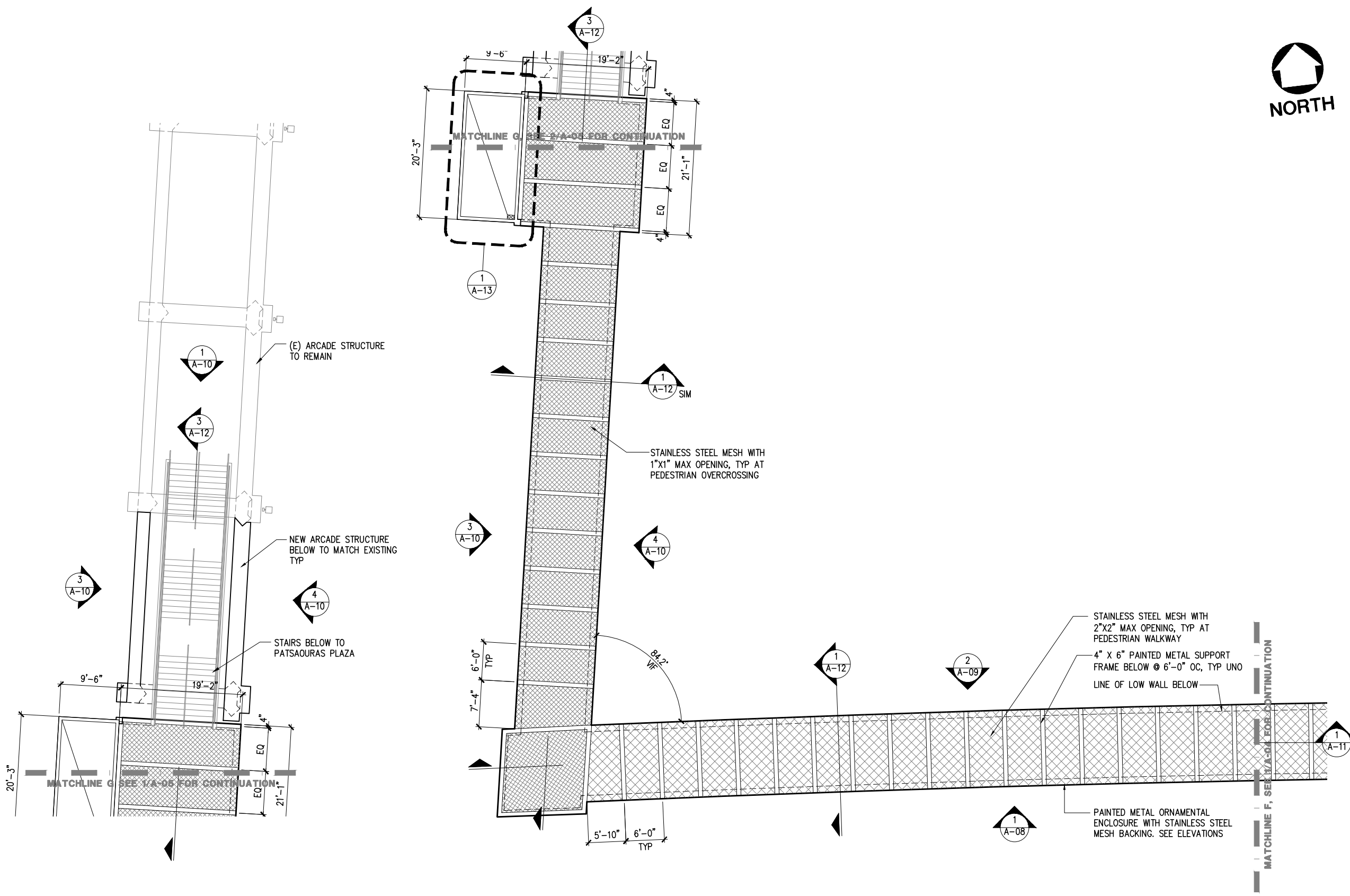
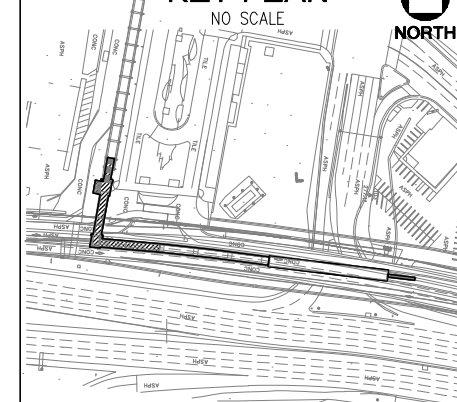
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LEGEND

- STAINLESS STEEL MESH WITH 2" X 2" MAXIMUM OPENING AT PEDESTRIAN WALKWAY
- STAINLESS STEEL MESH WITH 1" X 1" MAXIMUM OPENING AT PEDESTRIAN OVERCROSSING

KEY PLAN



2
A-05
PARTIAL PEDESTRIAN OVERCROSSING BRIDGE ROOF PLAN AND STAIR ROOF PLAN - AREA E
1/8"=1'-0"

1
A-05
PARTIAL PEDESTRIAN WALKWAY ROOF PLAN AND PEDESTRIAN OVERCROSSING ROOF PLAN - AREA D
1/8"=1'-0"

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DATE
4/16/2012

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Metro

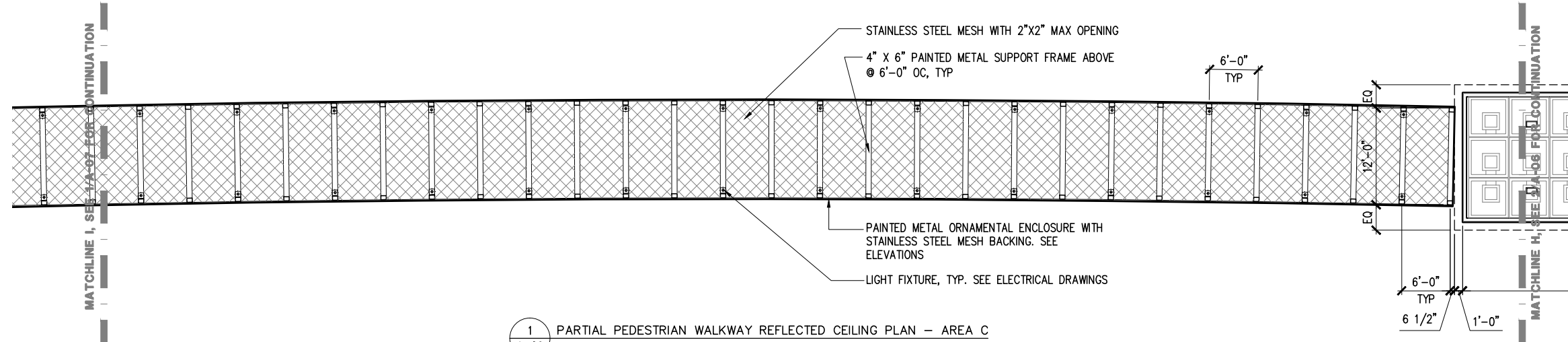
UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970
PARTIAL PEDESTRIAN WALKWAY ROOF PLAN, PEDESTRIAN OVERCROSSING ROOF PLAN AND STAIR ROOF PLAN - AREA D AND E

FILE/JOB NUMBER	C0970
SCALE	1/8" = 1'-0"
DWG. NO.	A-05
SHEET	32 OF 80

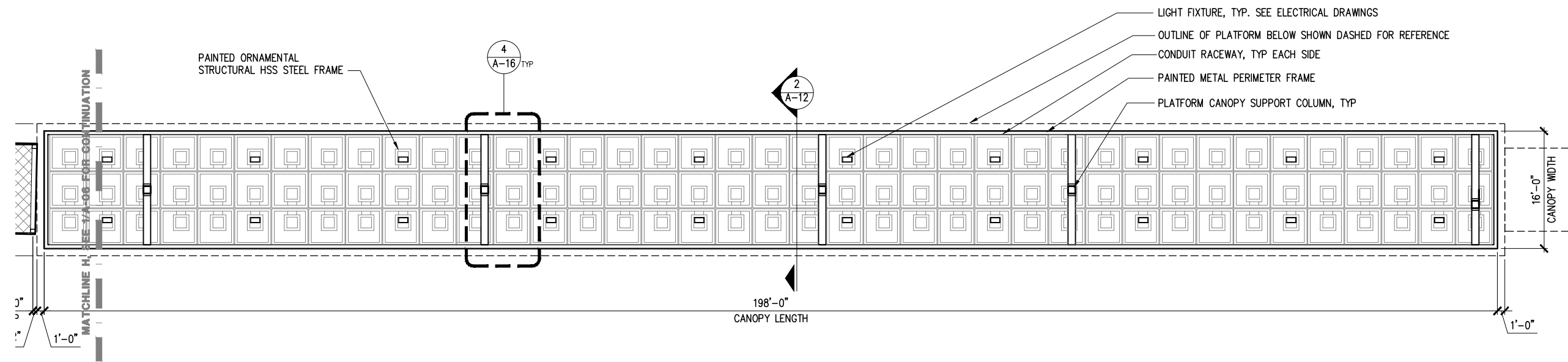
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GENERAL NOTES

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1 PARTIAL PEDESTRIAN WALKWAY REFLECTED CEILING PLAN - AREA C
A-06 1/8"=1'-0"

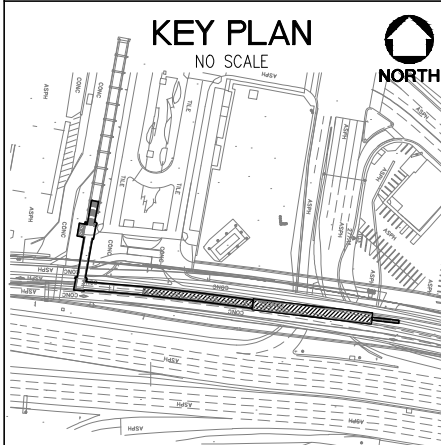


2 BUS PLATFORM REFLECTED CEILING PLAN - AREA B
A-06 1/8"=1'-0"

LEGEND

STAINLESS STEEL MESH WITH 2" X 2" MAXIMUM OPENING AT PEDESTRIAN WALKWAY

PAINTED ORNAMENTAL STRUCTURAL 4" X 4" HSS FRAME



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				ISSUED FOR BID
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DRAWN BY
S.P. CASANO

CHECKED
M. FERNANDES

DATE
4/8/2011

LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

PARTIAL PEDESTRIAN WALKWAY REFLECTED CEILING
PLAN - AREA C
BUS PLATFORM REFLECTED CEILING PLAN - AREA B

FILE/JOB NUMBER	C0970
SCALE	1/8" = 1'-0"
DWG. NO.	A-06
SHEET	33 OF 80

Drawing Name: I:\Projects\4014553\4014553_0001\Drawings\ARC\A-06.dwg Plotter: Apr 25, 2012 3:04pm by: parment

GENERAL NOTES

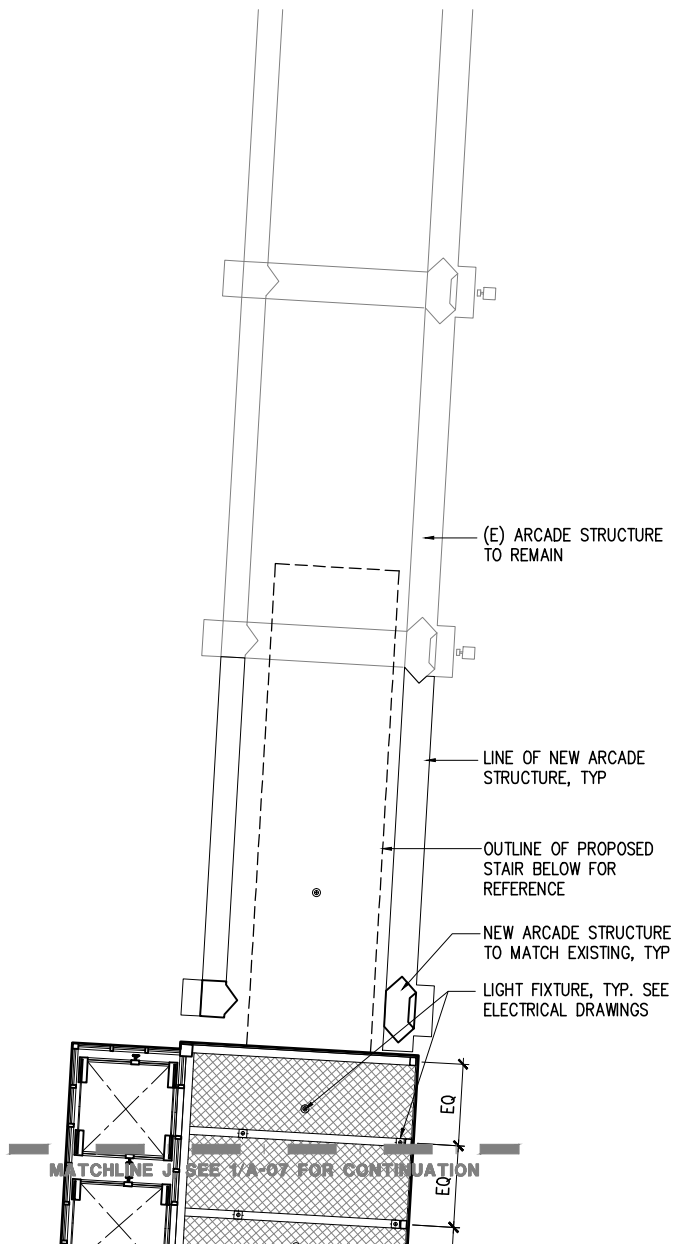
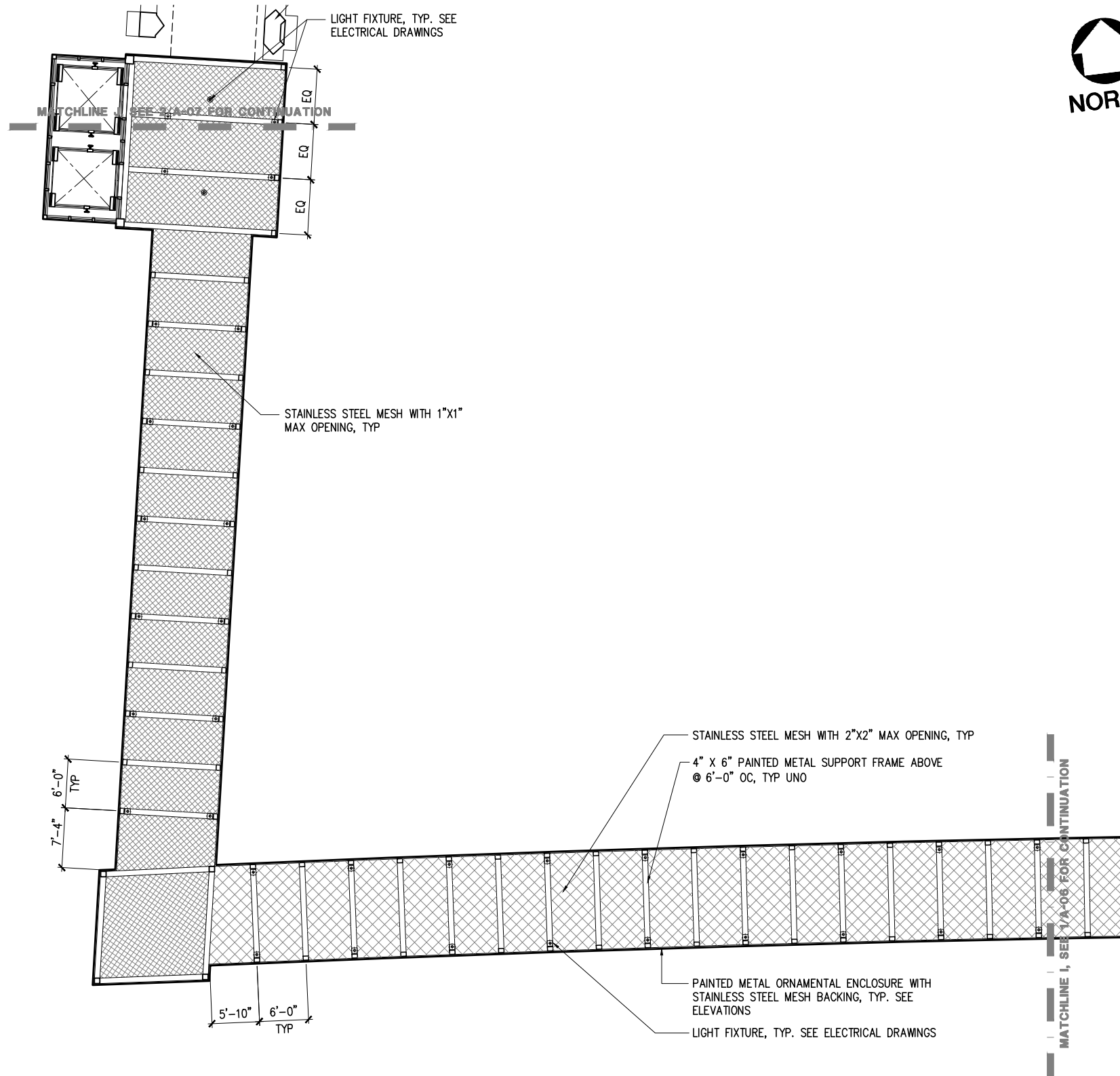
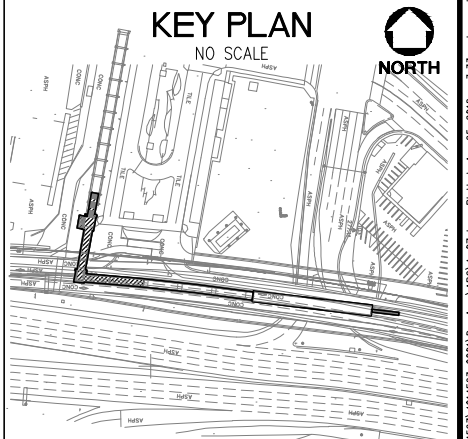
1. SEE CIVIL DRAWINGS AND STRUCTURAL DRAWINGS FOR FREEWAY WIDENING
2. PROTECT ALL FRESH AIR INTAKES FROM DUST, FUMES AND ODOR
3. PROTECT-IN-PLACE ALL EXISTING ITEMS TO REMAIN ADJACENT TO DEMOLITION AND/OR NEW CONSTRUCTION
4. ALL EXPOSED AREAS SUBJECT TO FOOT TRAFFIC SHALL BE SLIP RESISTANT COEFFICIENT OF FRICTION 0.6 MIN WET AND DRY IN FLAT AREAS, 0.8 IN SLOPING AREAS (ASTM C-1028)
5. PROVIDE CONDUITS WITH PULL-CORDS FOR CCTV SECURITY CAMERAS, TICKET VENDING MACHINES (TVM) AND STAND ALONE TICKET VALIDATORS (SAV), MAP CASES, ILLUMINATED SIGNAGE, P-TEL AND E-TEL.
6. ALL EXTERNAL CONDUIT, ELECTRICAL PIPING AND WATER PIPING SHALL BE CONCEALED IN RACEWAY. SEE TYPICAL CROSS SECTION DETAIL 1/A-12.
7. BUS PLATFORM TO FOLLOW SLOPE OF FREEWAY LONGITUDINALLY. 8" HIGH CURB TO BE MAINTAINED FOR ENTIRE LENGTH OF PLATFORM
8. SEE ENLARGED ELEVATOR PLAN AND SECTION DRAWING A-13 FOR ELEVATOR PLAN AT LOWER LEVEL AND AT PLAZA LEVEL
9. ALL PAINTED METAL SHALL BE PAINTED WITH A BRONZE COLOR FINISH UNLESS NOTED OTHERWISE
10. ALL GRATINGS IN WALKWAY SURFACES (SUCH AS TRENCH DRAIN GRATE AT LANDINGS AS INDICATED) SHALL HAVE SPACES NO GREATER THAN 1/2 INCH WIDE IN ONE DIRECTION. IF GRATINGS HAVE ELONGATED OPENINGS THEN THEY SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.
11. INTEGRAL COLOR OF ALL CONCRETE SHALL MATCH EXISTING ARCADE STRUCTURE
12. FOR LOCATION OF ALL SIGNAGE, SEE SIGNAGE AND WAYFINDING DRAWINGS



LEGEND

- STAINLESS STEEL MESH WITH 2" X 2" MAXIMUM OPENING AT PEDESTRIAN WALKWAY
- STAINLESS STEEL MESH WITH 1" X 1" MAXIMUM OPENING AT PEDESTRIAN OVERCROSSING

KEY PLAN
NO SCALE



2 PARTIAL PEDESTRIAN OVERCROSSING REFLECTED CEILING PLAN - AREA E
A-07 1/8"=1'-0" 0 4' 8' 16'

1 PARTIAL PEDESTRIAN WALKWAY REFLECTED CEILING PLAN AND PEDESTRIAN OVERCROSSING REFLECTED CEILING PLAN - AREA D
A-07 1/8"=1'-0" 0 4' 8' 16'

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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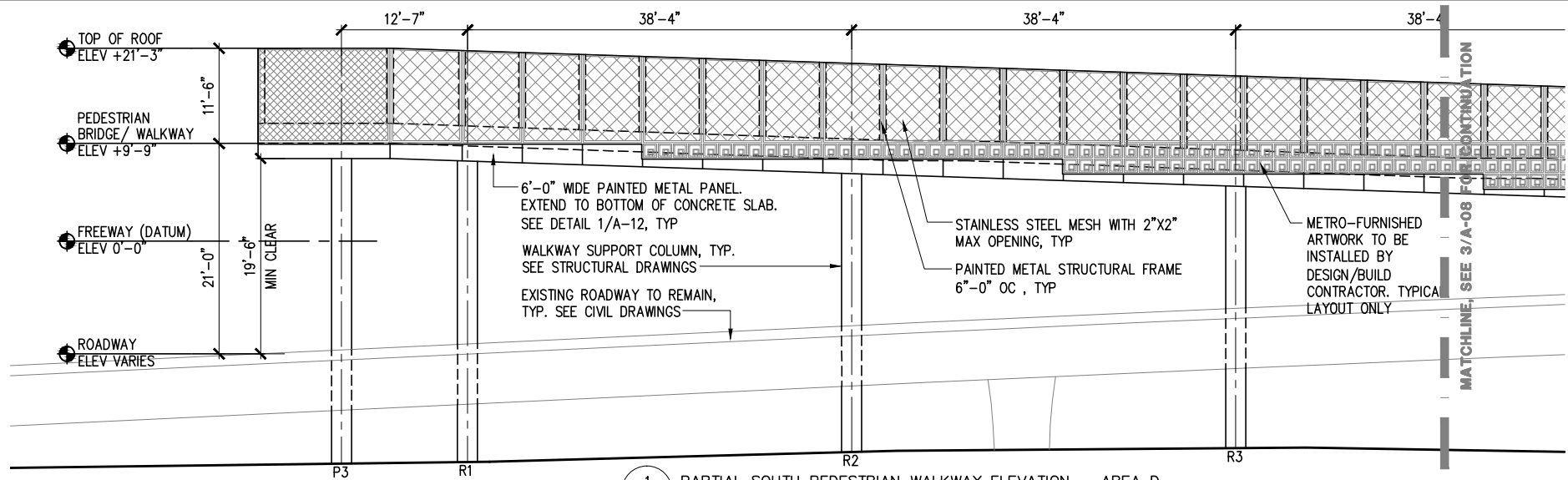
**EHRENKRANTZ
ECKSTUT
& KUHN
ARCHITECTS**

DESIGNED
E.E.K.
DRAWN BY
S.P. CASANO
CHECKED
M. FERNANDES
DATE
4/16/2012

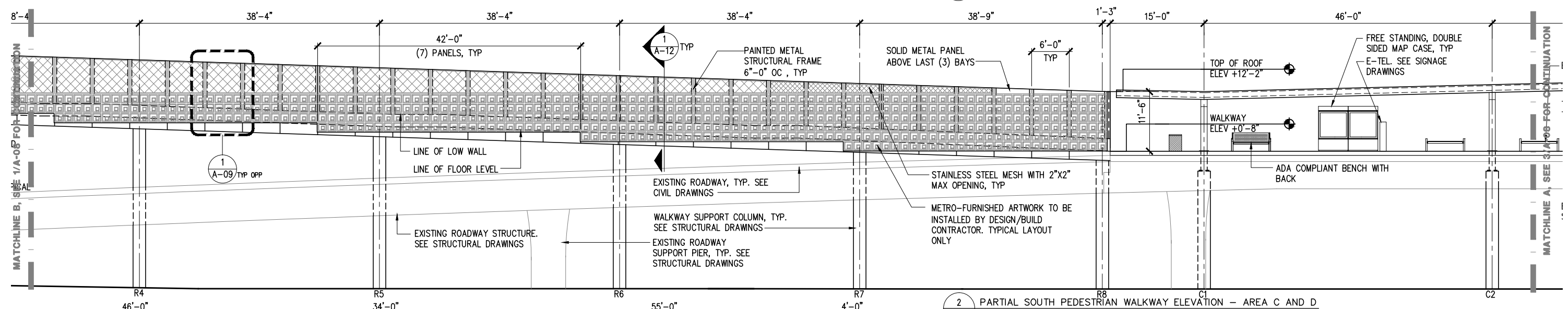
M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
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UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970
PARTIAL PEDESTRIAN WALKWAY REFLECTED CEILING PLAN AND PEDESTRIAN OVERCROSSING REFLECTED CEILING PLAN - AREA D AND E

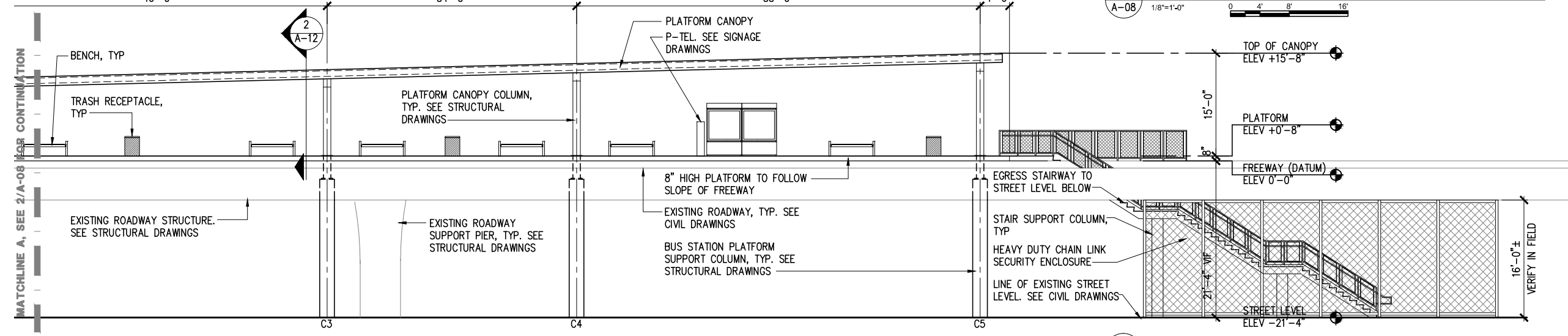
FILE/JOB NUMBER
C0970
SCALE
1/8" = 1'-0"
DWG. NO.
A-07
SHEET
34 OF 80



1 PARTIAL SOUTH PEDESTRIAN WALKWAY ELEVATION - AREA D
A-08 1/8"=1'-0" 0 4' 8' 16'

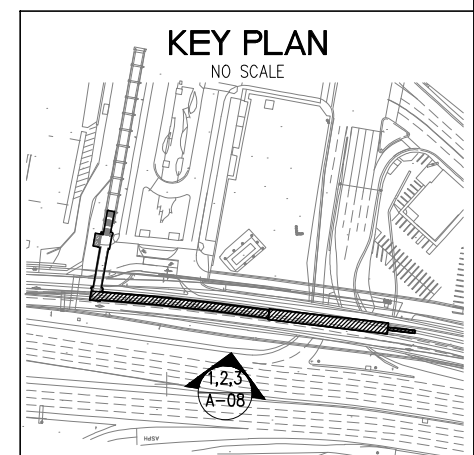


2 PARTIAL SOUTH PEDESTRIAN WALKWAY ELEVATION - AREA C AND D
A-08 1/8"=1'-0" 0 4' 8' 16'



3 SOUTH CANOPY ELEVATION AT PLATFORM - AREA A AND B
A-08 1/8"=1'-0" 0 4' 8' 16'

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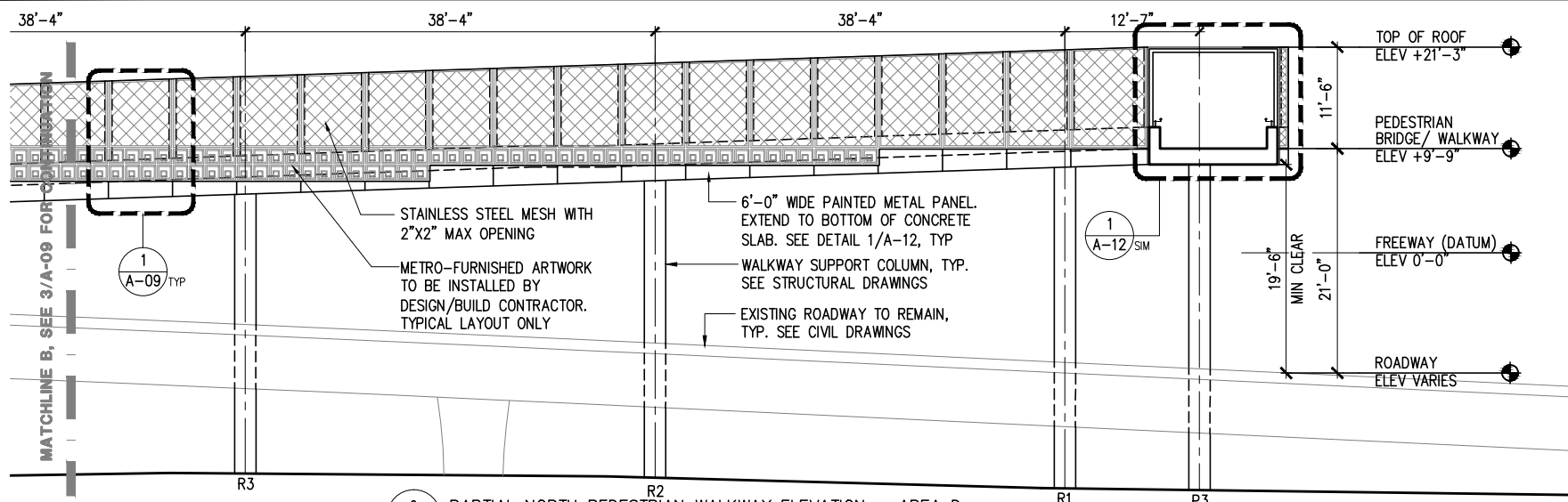
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M. FERNANDES
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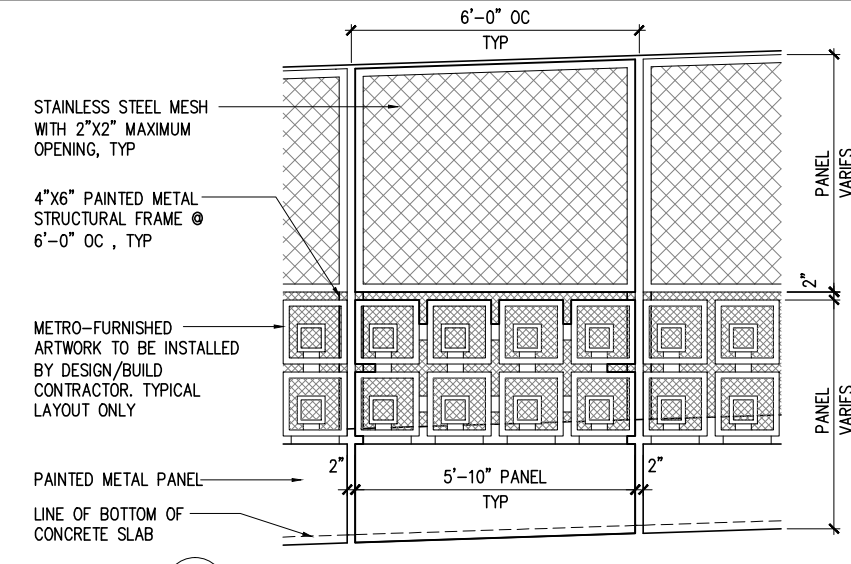
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UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970
**EXTERIOR ELEVATIONS
1 OF 3**

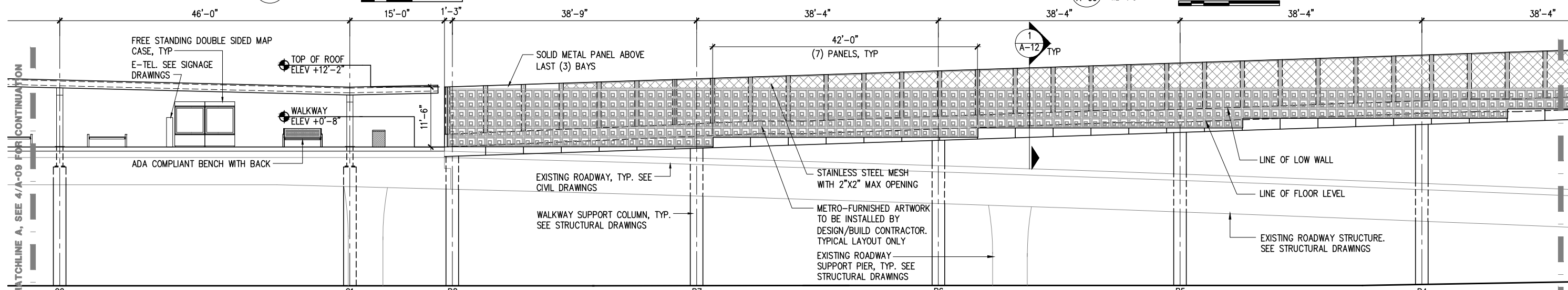
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SCALE	1/8"=1'-0"
DWG. NO.	A-08
SHEET	35 OF 80



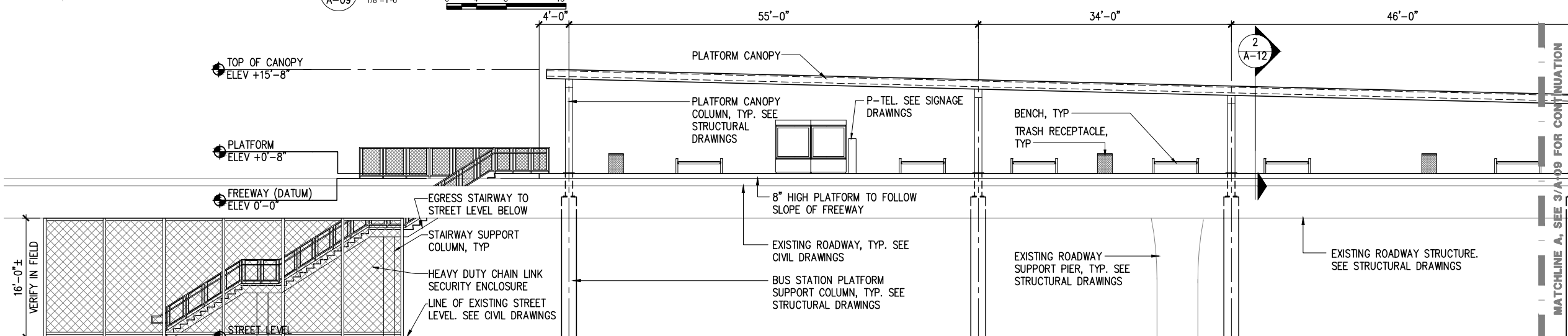
2 PARTIAL NORTH PEDESTRIAN WALKWAY ELEVATION - AREA D
A-09 1/8"=1'-0"



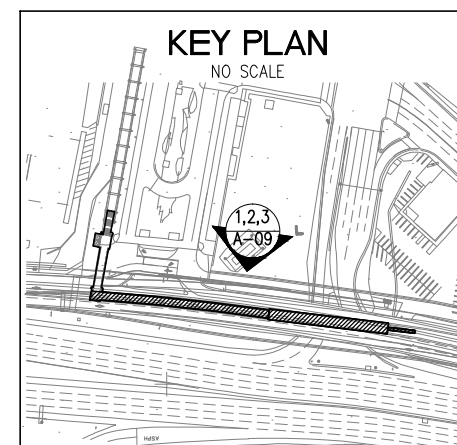
1 TYPICAL ENLARGED PANEL ELEVATION
A-09 1/2"=1'-0"



3 PARTIAL NORTH PEDESTRIAN WALKWAY ELEVATION - AREA C AND D
A-09 1/8"=1'-0"



4 NORTH CANOPY ELEVATION AT PLATFORM - AREA A AND B
A-09 1/8"=1'-0"



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DRAWN BY: **S.P. CASANO**
CHECKED: **M. FERNANDES**
DATE: **4/8/2011**

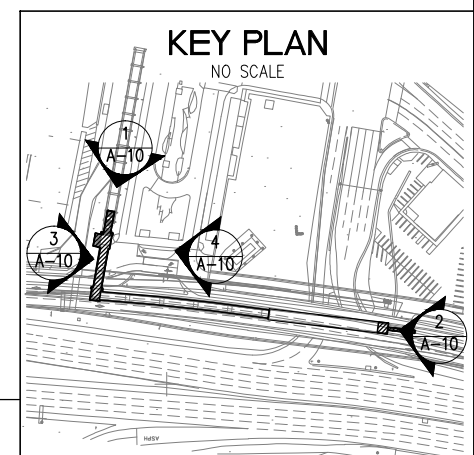
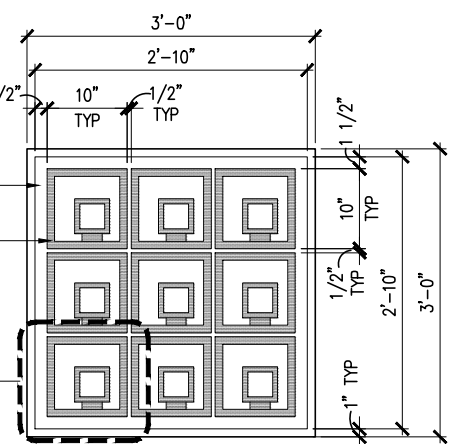
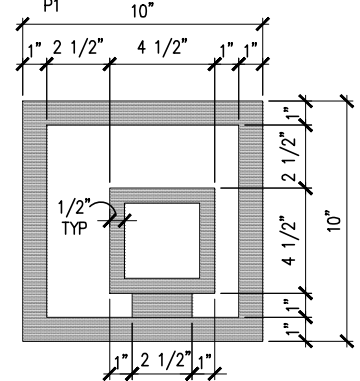
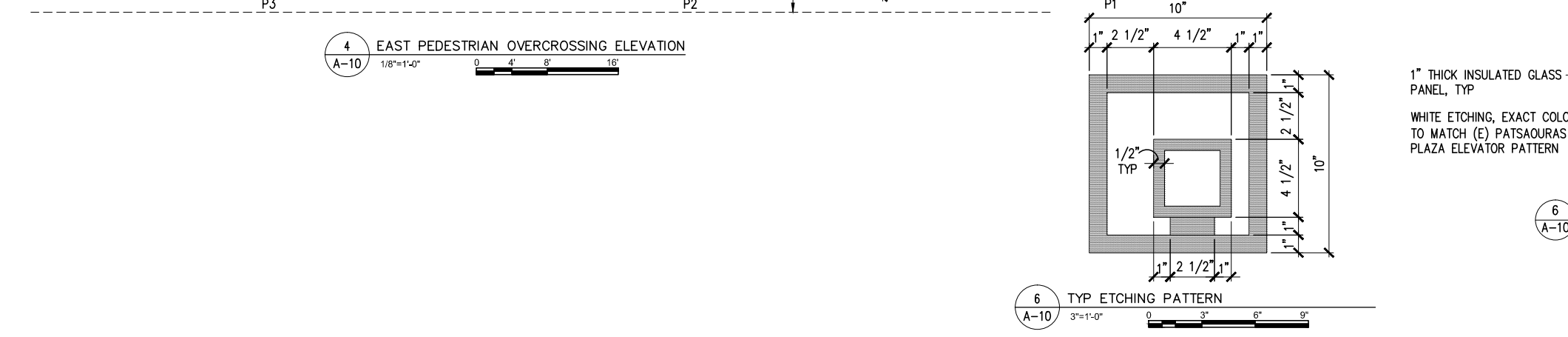
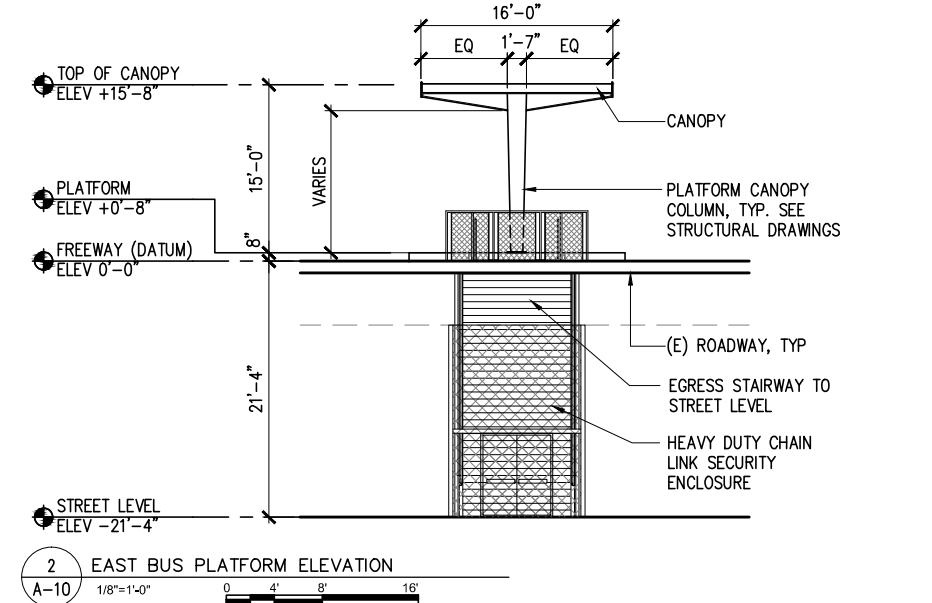
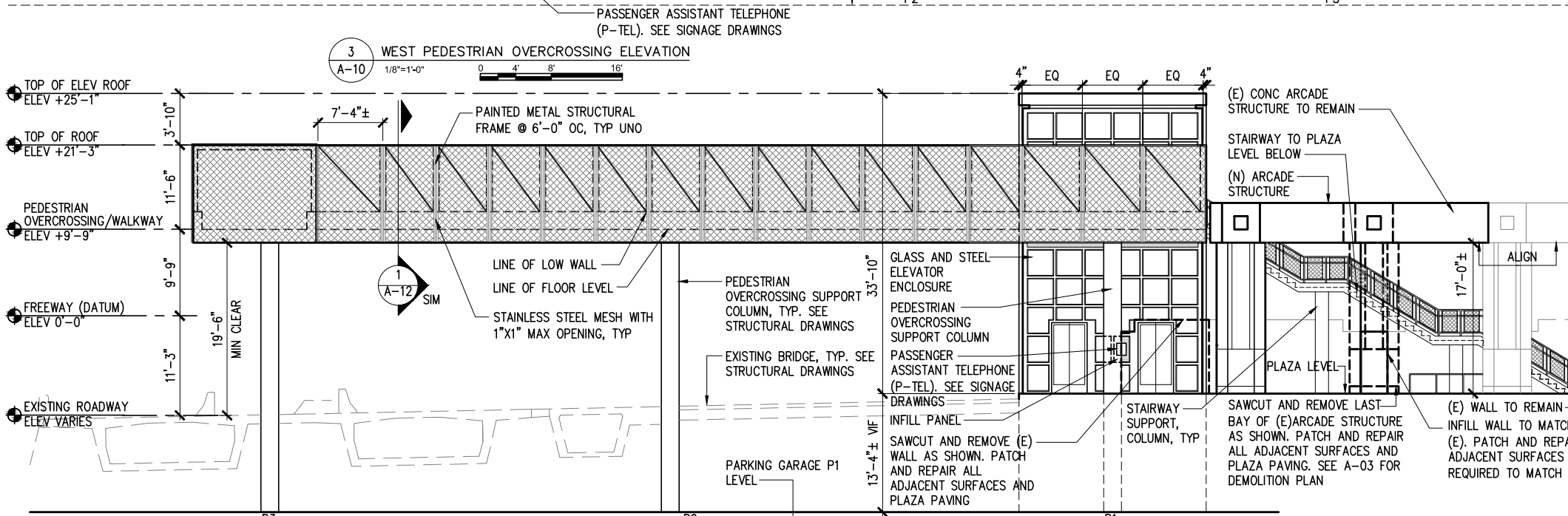
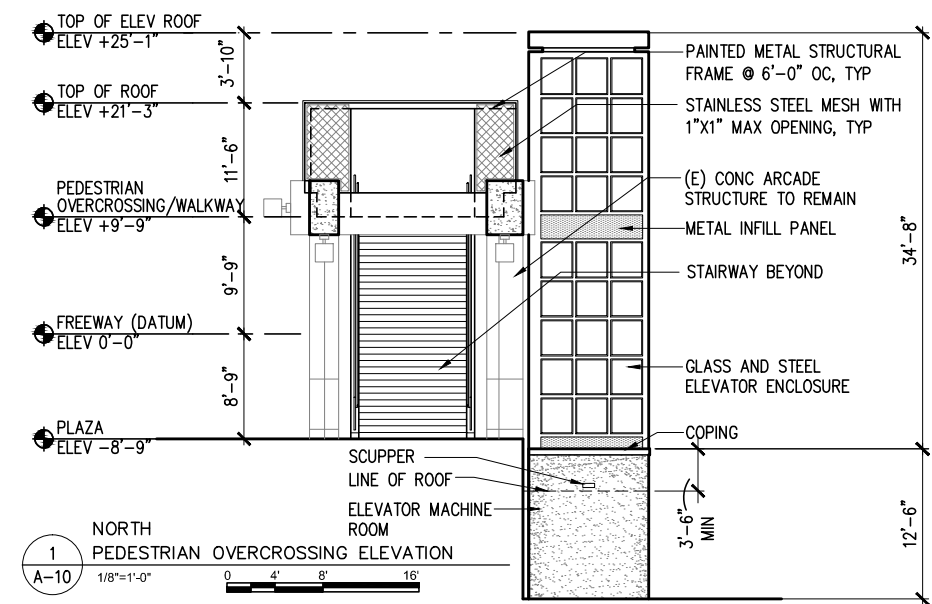
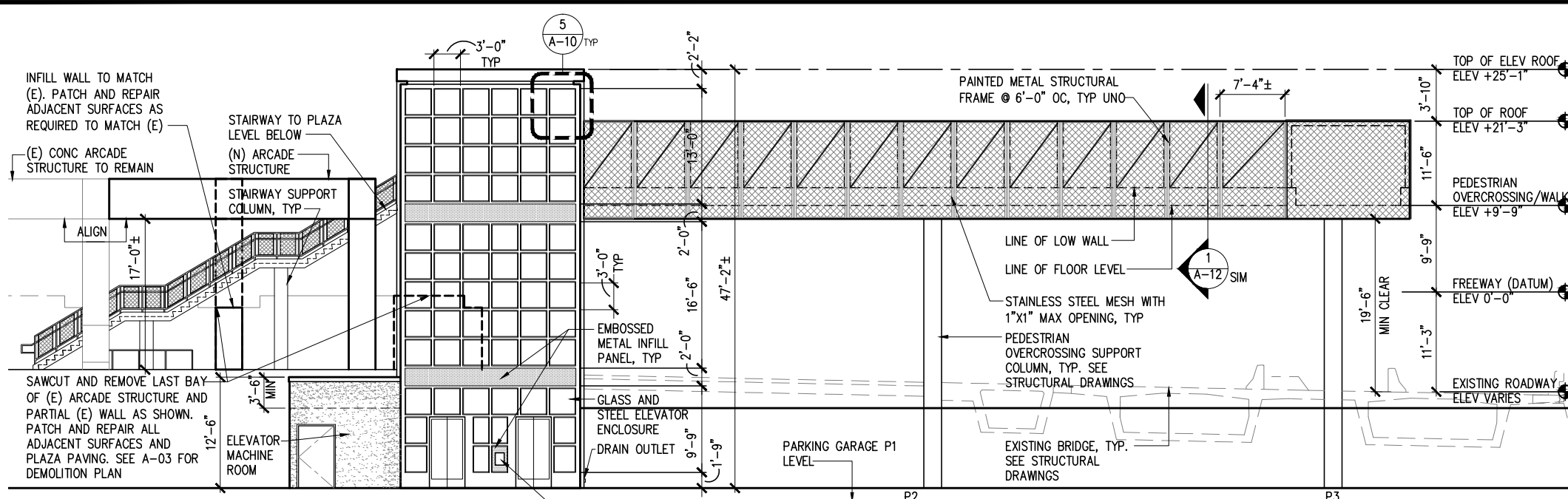
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UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

FILE/JOB NUMBER: C0970
SCALE: 1/8"=1'-0"
DWG. NO.: **A-09**
SHEET: 36 OF 80

Drawing Name: I:\Projects\4014563\4014563_0001\Drawings\ARC\A-09.dwg Plotter: Apr 25, 2012 3:05pm by: parment



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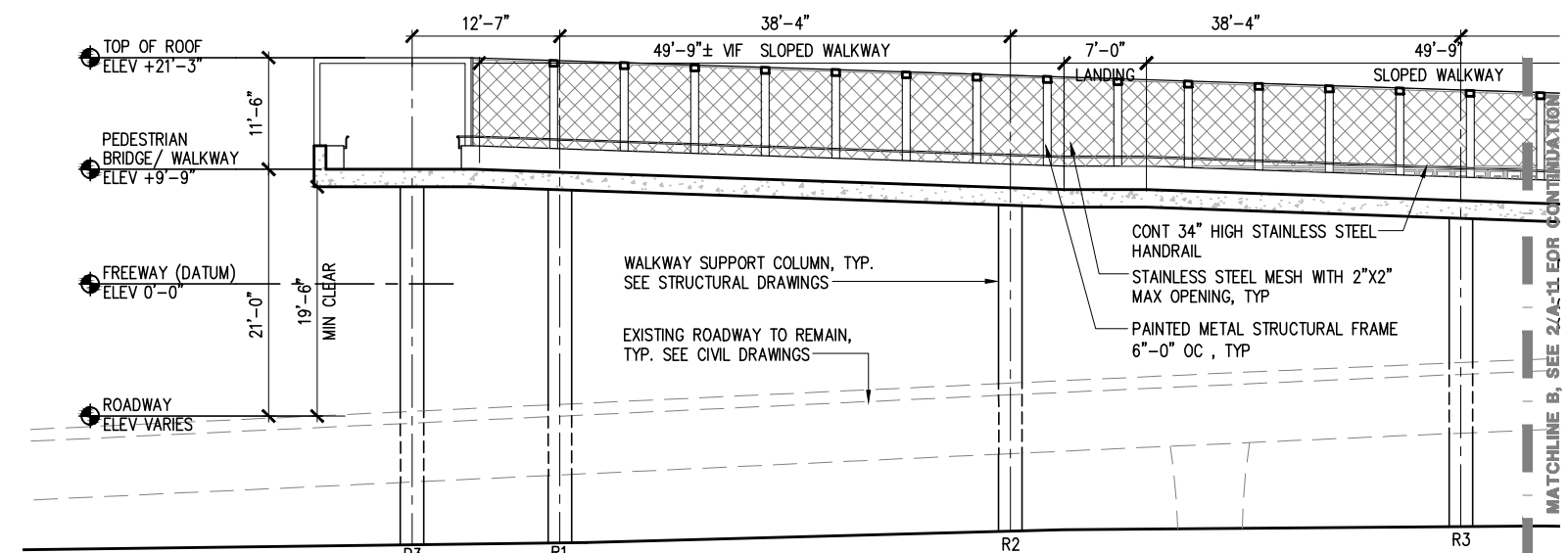
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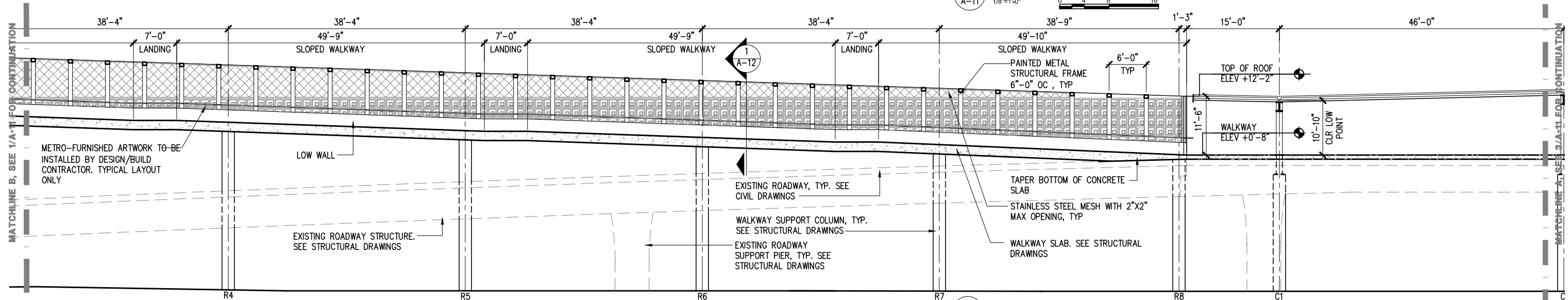
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UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970
**EXTERIOR ELEVATIONS
3 OF 3**

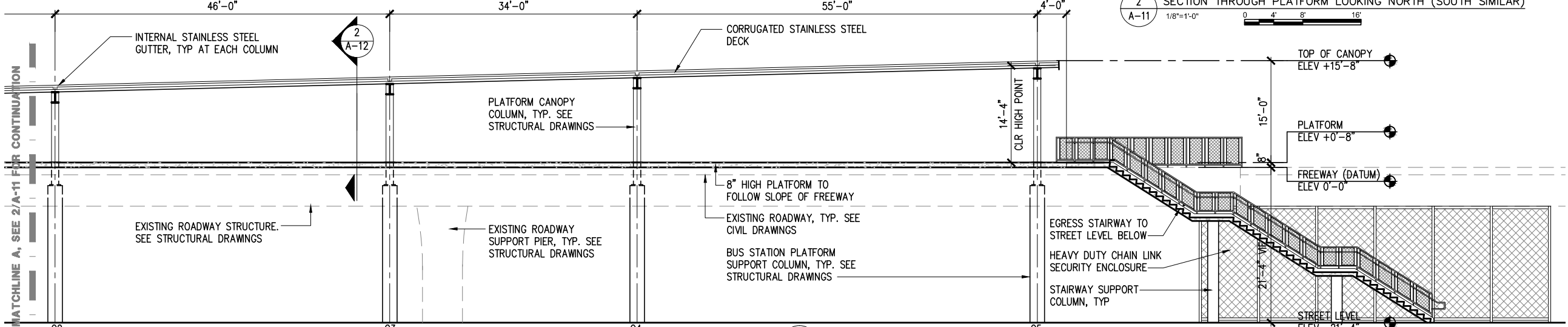
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SCALE	1/8"=1'-0"
DWG. NO.	A-10
SHEET	37 OF 80



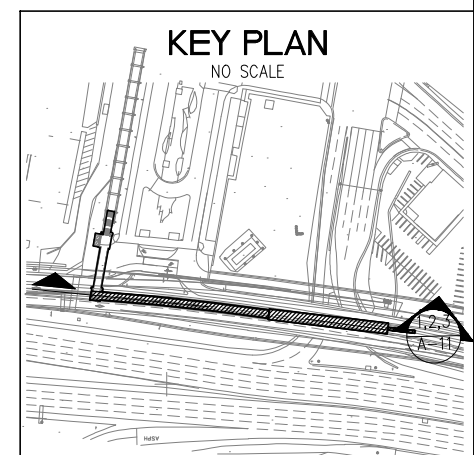
1 SECTION THROUGH PLATFORM LOOKING NORTH (SOUTH SIMILAR)
A-11 1/8"=1'-0" 0 4' 8' 16'



2 SECTION THROUGH PLATFORM LOOKING NORTH (SOUTH SIMILAR)
A-11 1/8"=1'-0" 0 4' 8' 16'



3 SECTION THROUGH PLATFORM LOOKING NORTH (SOUTH SIMILAR)
A-11 1/8"=1'-0" 0 4' 8' 16'



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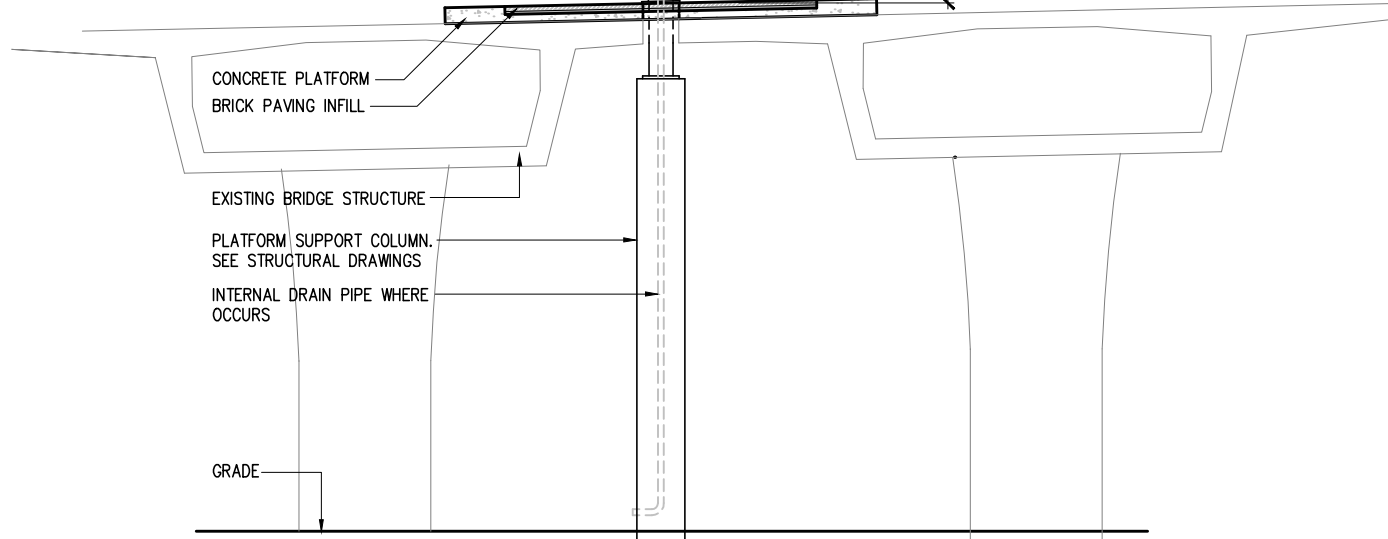
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UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

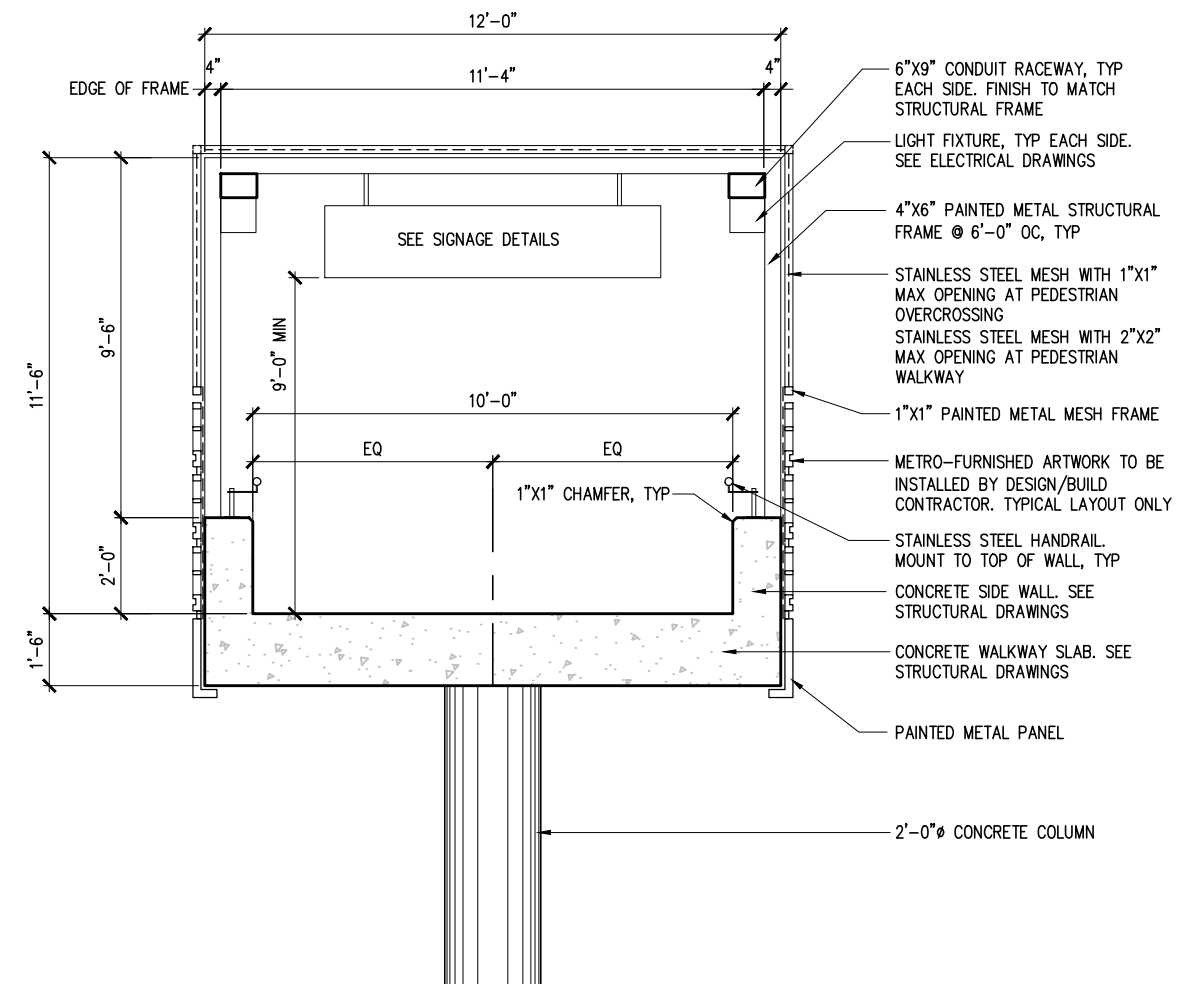
LONGITUDINAL SECTION

FILE/JOB NUMBER C0970
SCALE 1/8"=1'-0"
DWG. NO. A-11
SHEET 38 OF 80

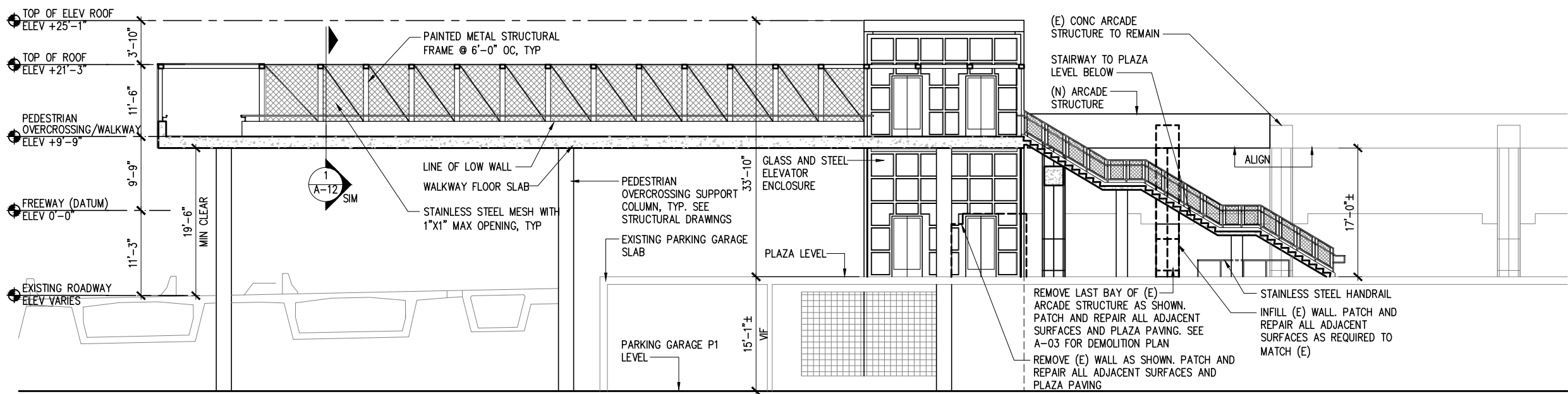
- CORRUGATED STAINLESS STEEL DECK. NO EXPOSED FASTENERS
- CONDUIT RACEWAY, TYP EACH SIDE. FINISH TO MATCH STRUCTURAL FRAME
- STEEL CLOSURE, TYP EACH SIDE
- ORNAMENTAL STEEL HSS FRAME
- INTERNAL GUTTER WHERE OCCURS
- PAINTED TUBE STEEL, FINISH TO MATCH COLUMN
- DRAIN PIPE INSIDE COLUMN WHERE OCCURS
- PAINTED STEEL CANOPY SUPPORT COLUMN, TYP. SEE STRUCTURAL DRAWINGS



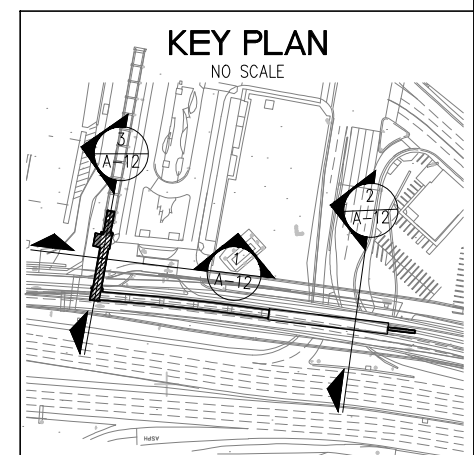
2 TYP PLATFORM/CANOPY SECTION
A-12 1/4"=1'-0"



1 TYP CROSS SECTION THROUGH WALKWAY AND OVERCROSSING
A-12 1/2"=1'-0"



3 SECTION THROUGH PEDESTRIAN OVERCROSSING AND STAIR
A-12 1/8"=1'-0"



- REMOVE LAST BAY OF (E) ARCADE STRUCTURE AS SHOWN. PATCH AND REPAIR ALL ADJACENT SURFACES AND PLAZA PAVING. SEE A-03 FOR DEMOLITION PLAN
- REMOVE (E) WALL AS SHOWN. PATCH AND REPAIR ALL ADJACENT SURFACES AND PLAZA PAVING
- STAINLESS STEEL HANDRAIL INFILL (E) WALL. PATCH AND REPAIR ALL ADJACENT SURFACES AS REQUIRED TO MATCH (E)

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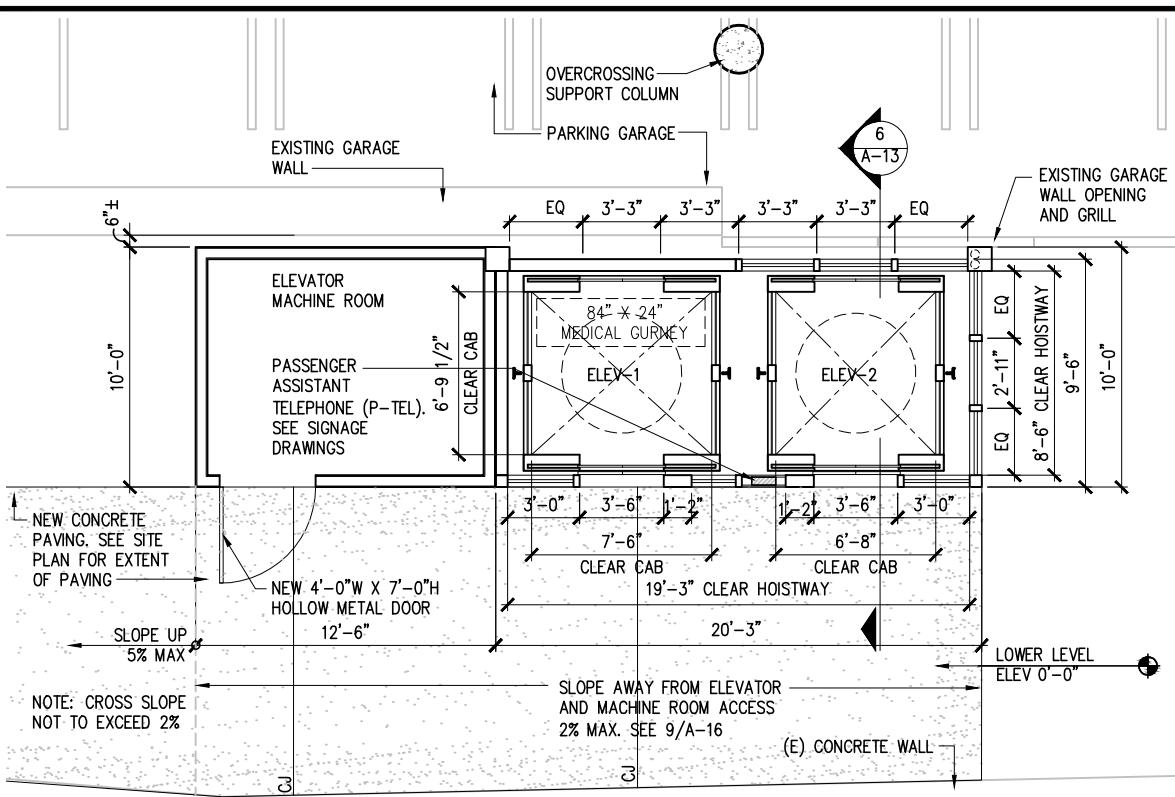
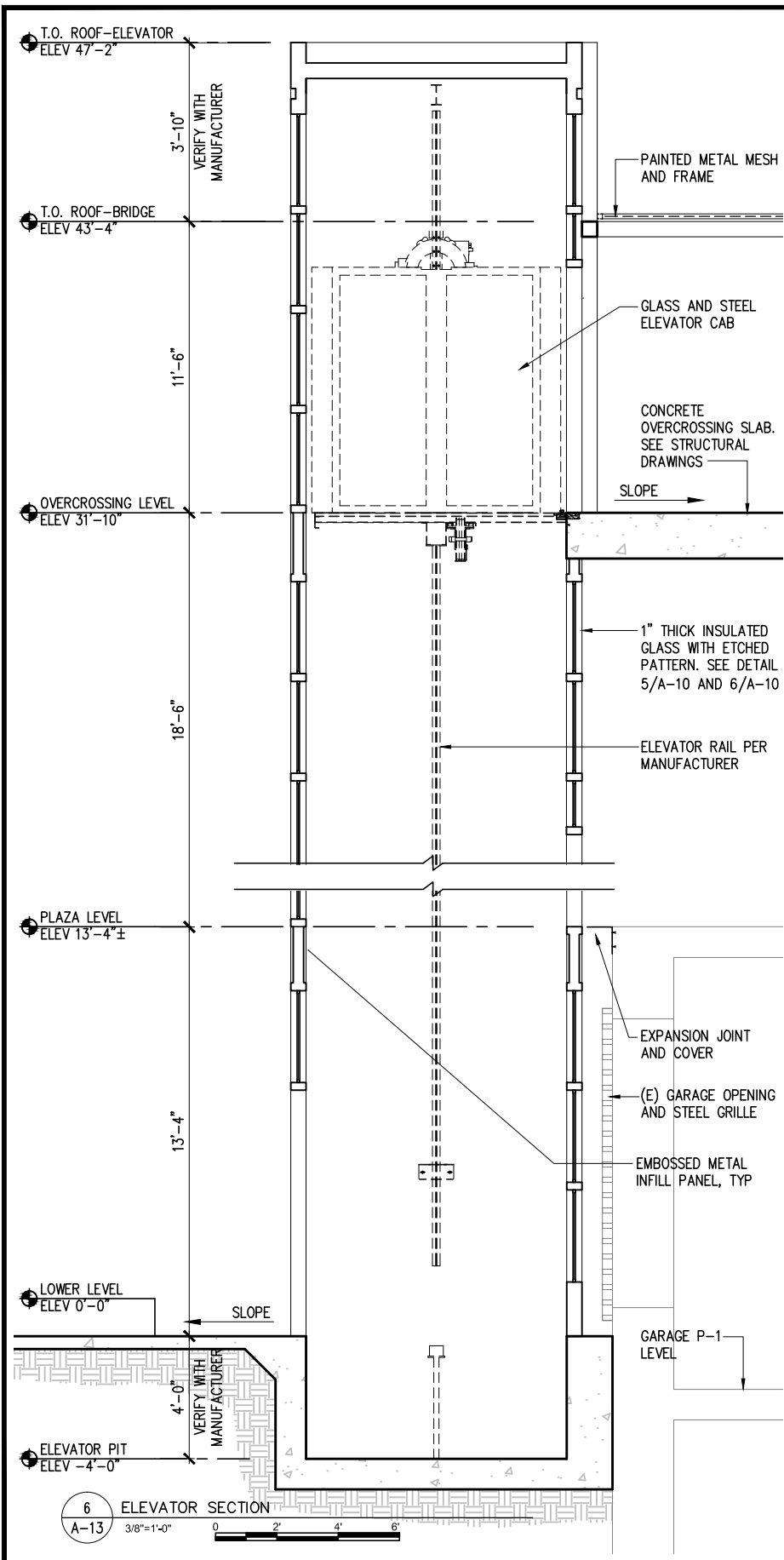
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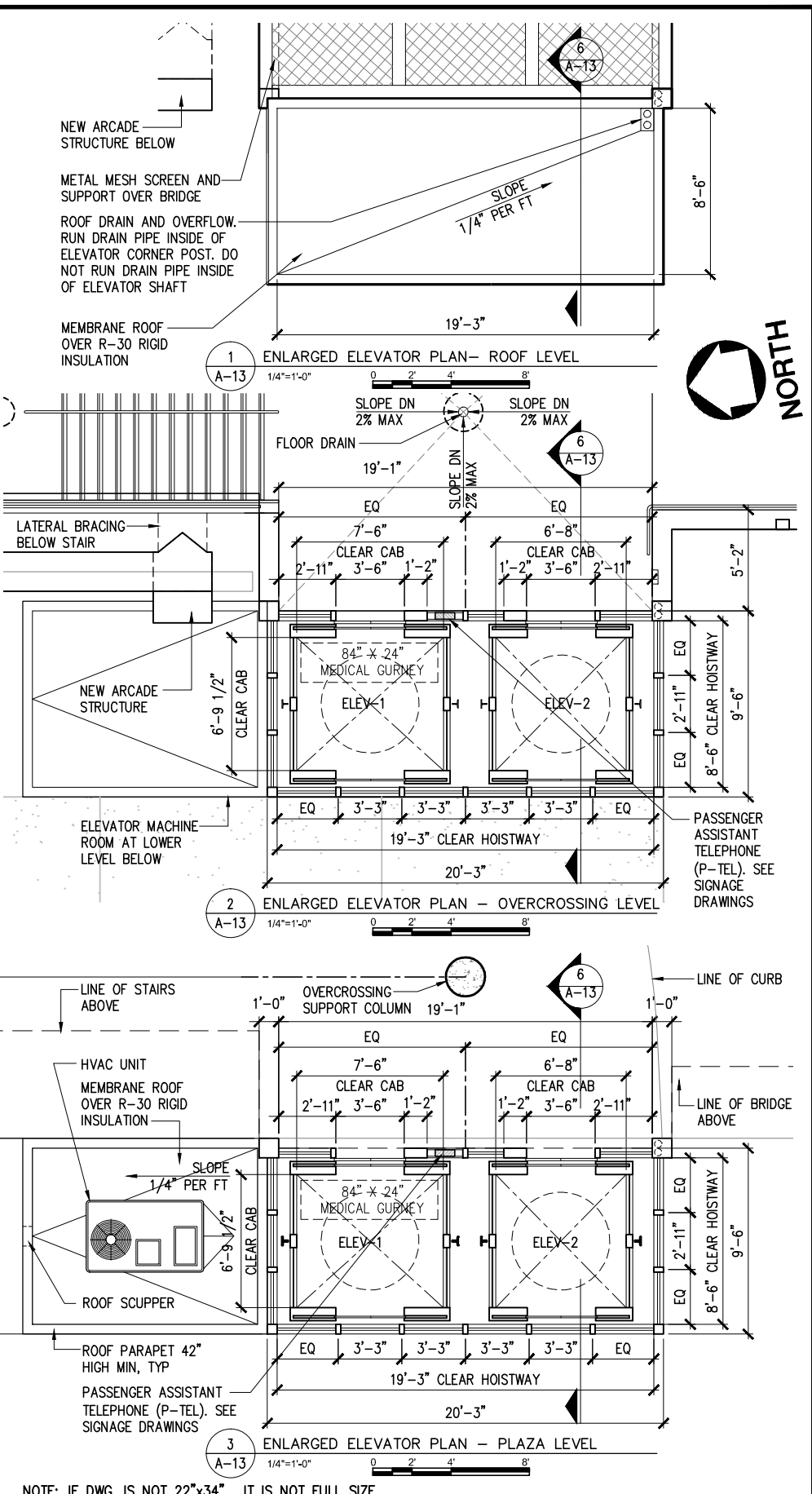
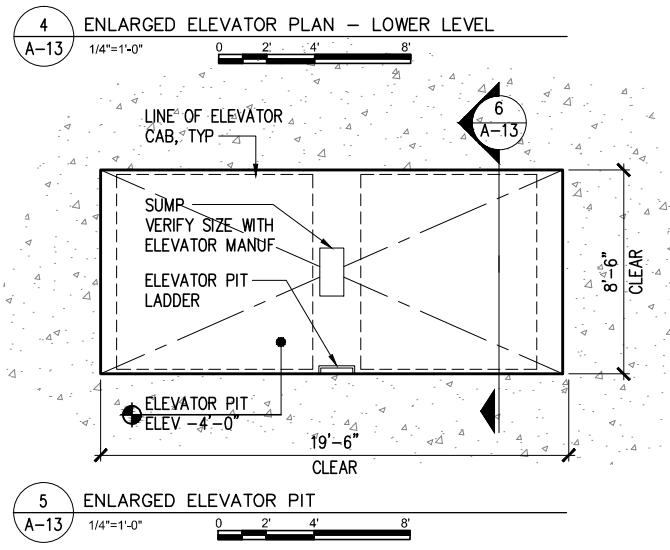
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E.E.K.
DRAWN BY
S.P. CASANO
CHECKED
M. FERNANDES
DATE
10/15/2010

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UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970
SECTIONS
FILE/JOB NUMBER C0970
SCALE AS NOTED
DWG. NO. **A-12**
SHEET 39 OF 80



- ELEVATOR MACHINE ROOM NOTES:**
1. PROVIDE DOUBLE-INTERLOCK PREACTION FIRE SPRINKLER SYSTEM. FIRE SPRINKLER DESIGN IS TO BE PER NFPA 13 AND LAFD REQUIREMENTS.
 2. PROVIDE LOCKABLE CLOSET FOR PREACTION CONTROL PANEL
 3. PROVIDE HOSE-BIBB INSIDE LOCK BOX
- ELEVATOR NOTES:**
1. VERIFY ELEVATOR OVERHEAD AND PIT DIMENSIONS WITH ELEVATOR MANUFACTURER
 2. VERIFY SIZE OF MACHINE ROOM WITH ELEVATOR MANUFACTURER AND COORDINATE WITH ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF ELECTRICAL EQUIPMENT



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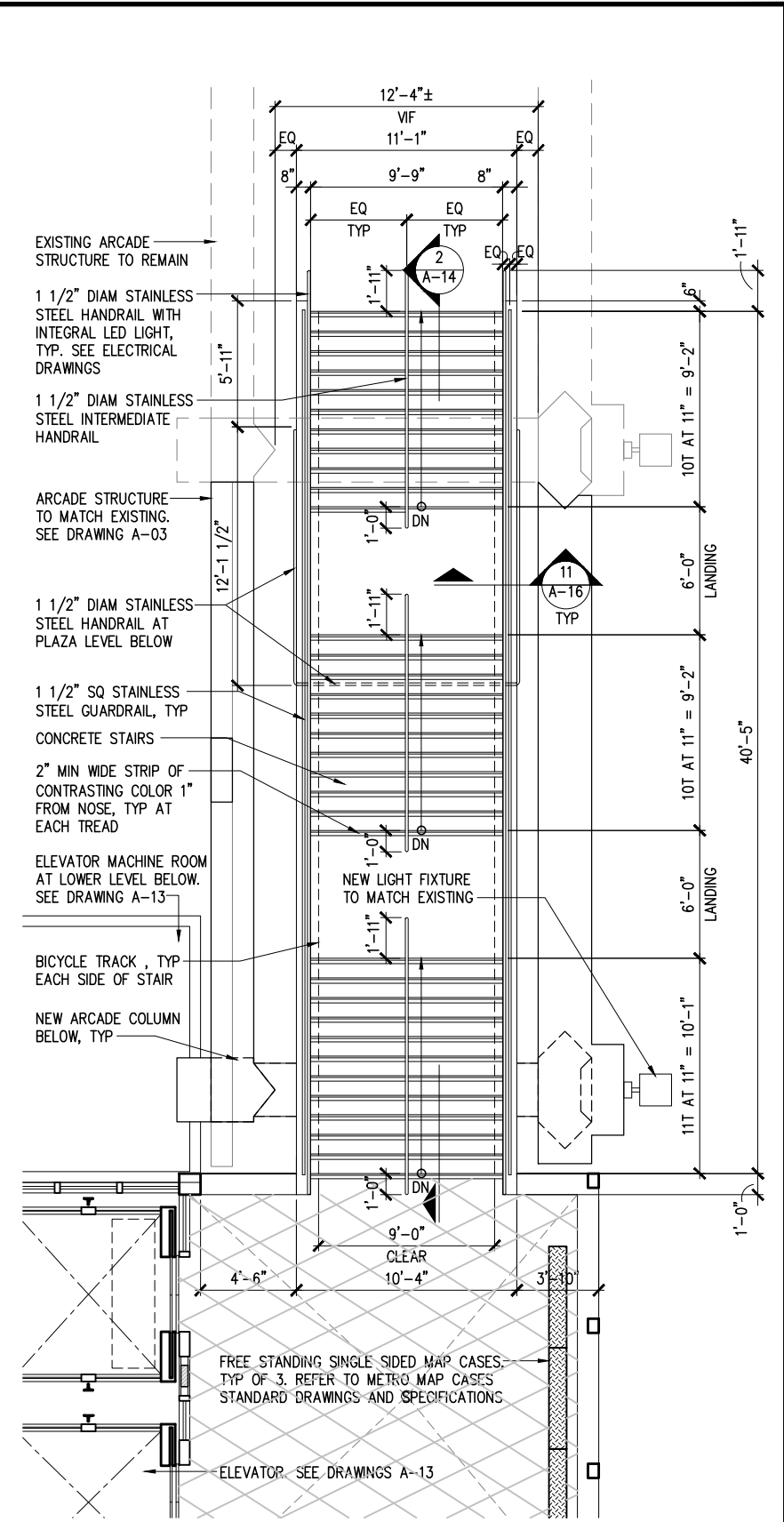
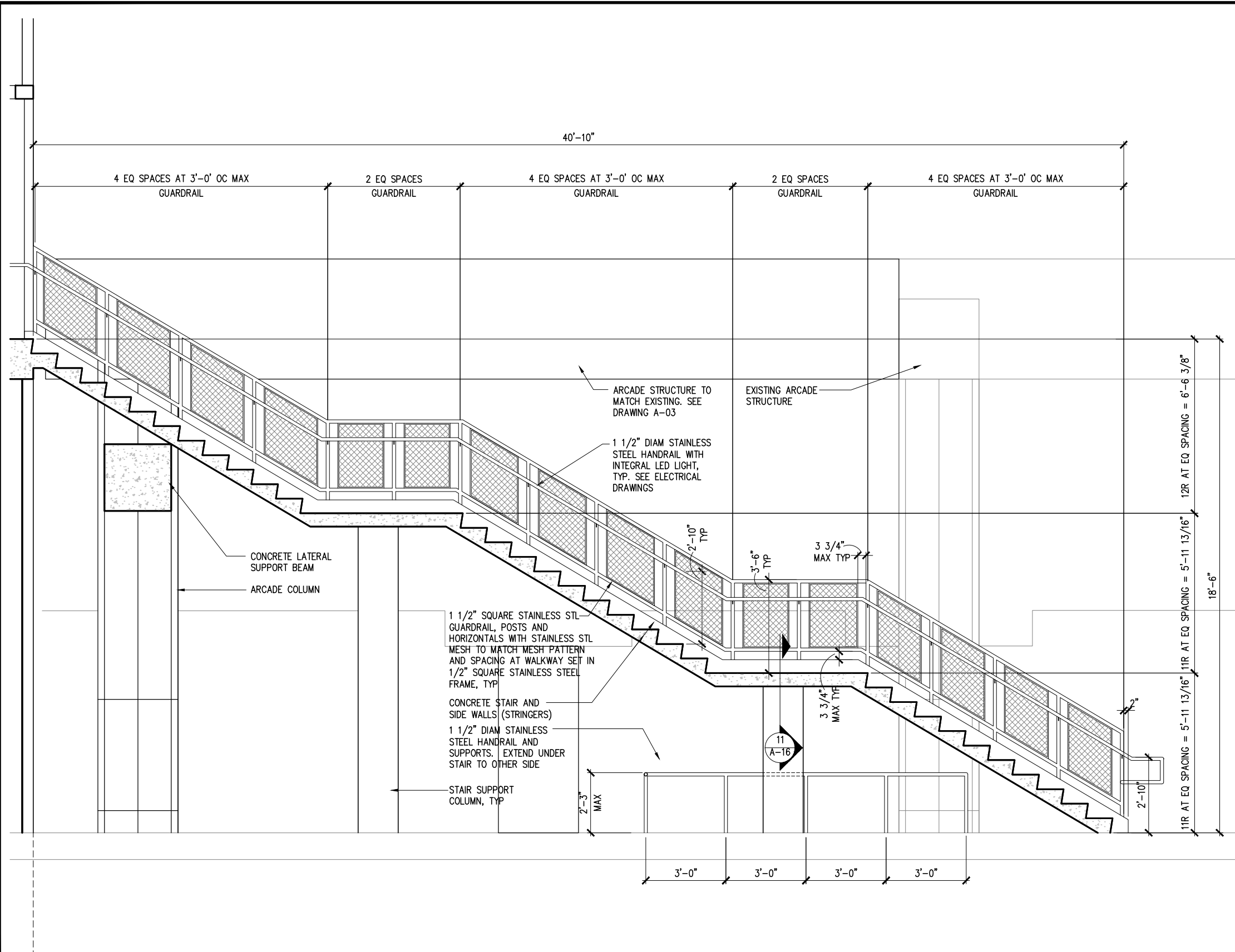
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UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970
ENLARGED ELEVATOR PLANS AND SECTION
FILE/JOB NUMBER C0970
SCALE AS NOTED
DWG. NO. **A-13**
SHEET 40 OF 80



2 STAIR SECTION
A-14 1/2"=1'-0"

1 ENLARGED STAIR PLAN
A-14 1/4"=1'-0"

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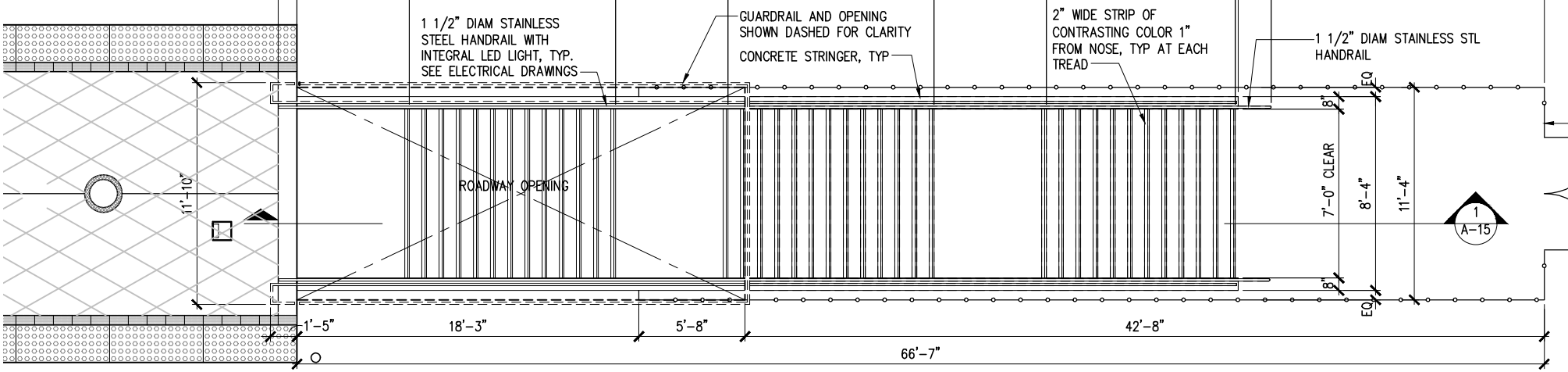
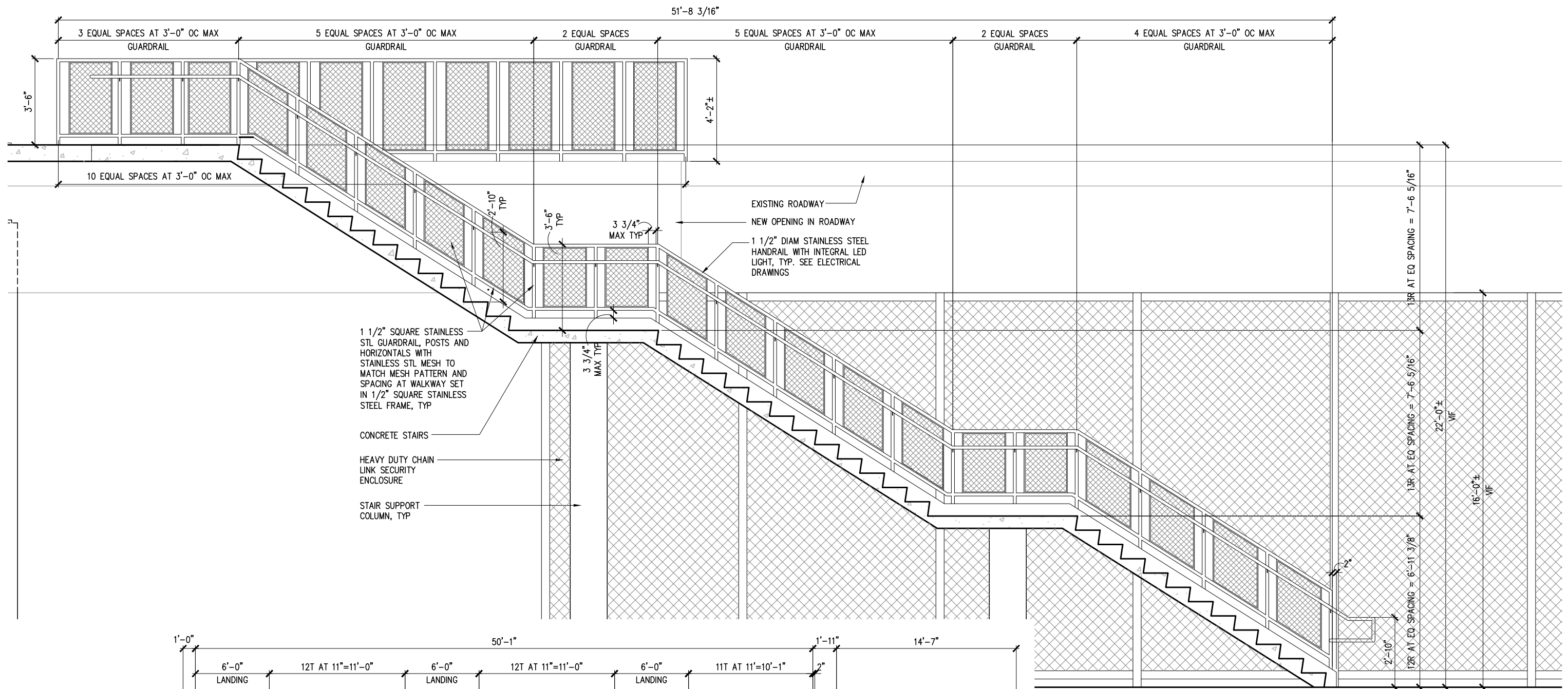
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UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970
ENLARGED STAIR PLAN AND SECTION

FILE/JOB NUMBER	C0970
SCALE	AS NOTED
DWG. NO.	A-14
SHEET	41 OF 80

Drawing Name: I:\Projects\4014653_0001\Drawings\ARC\A-14.dwg Plotter: Apr 25, 2012 - 3:06pm by: partent



1 EGRESS STAIR SECTION
A-15 1/2"=1'-0"

2 ENLARGED EGRESS STAIR PLAN
A-15 1/4"=1'-0"

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METROPOLITAN TRANSPORTATION AUTHORITY

Metro

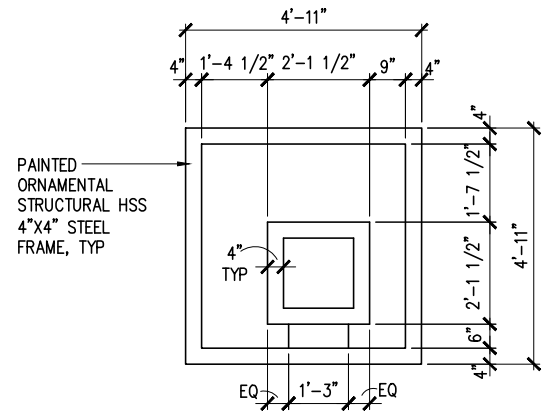
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

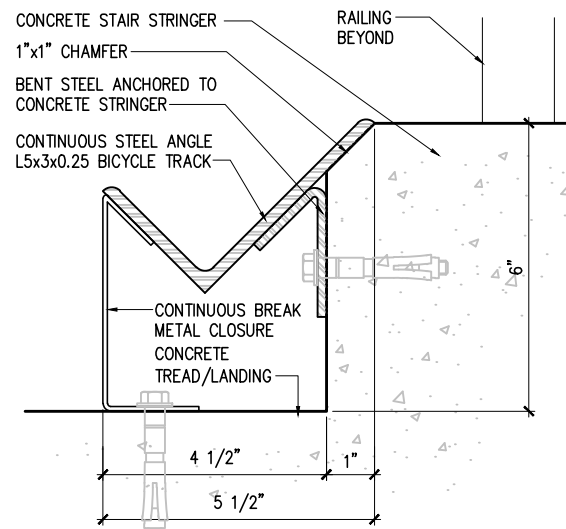
ENLARGED EGRESS STAIR PLAN AND SECTION

FILE/JOB NUMBER C0970
SCALE AS NOTED
DWG. NO. **A-15**
SHEET 42 OF 80

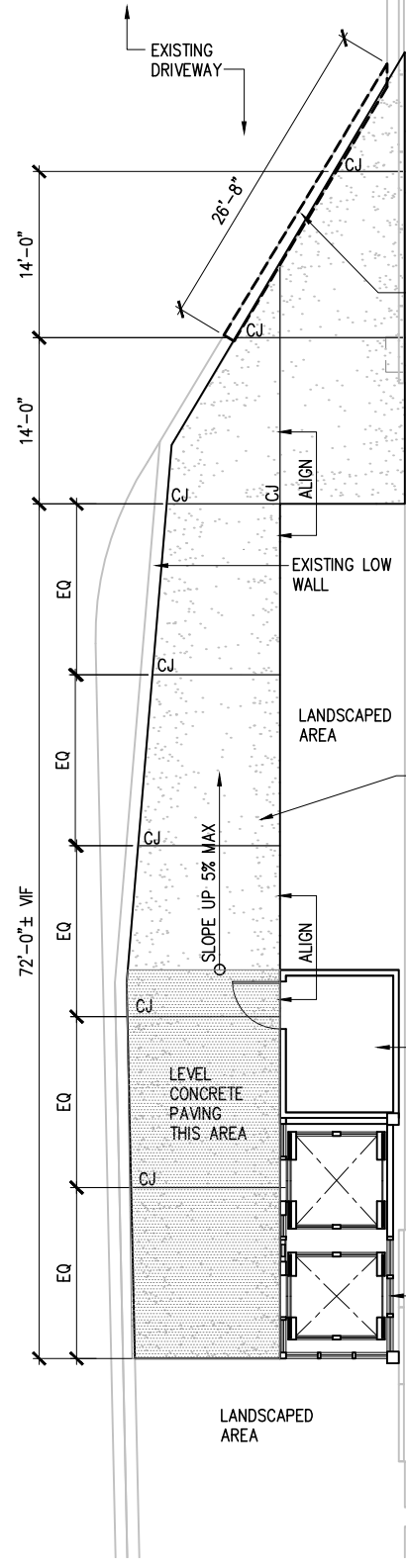
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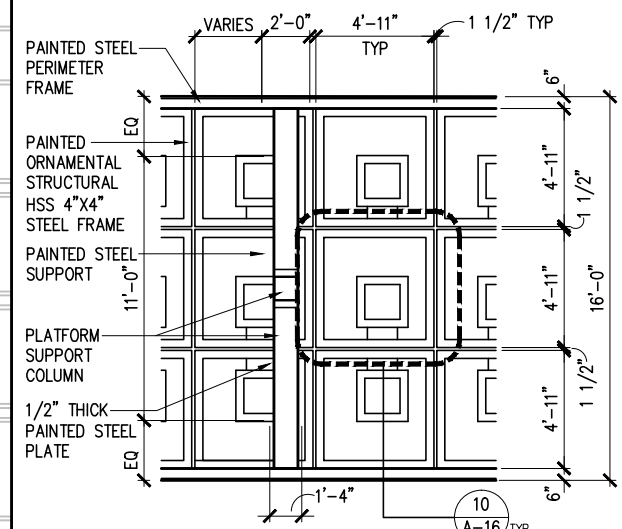
10 CEILING DETAIL
A-16 1/2"=1'-0"



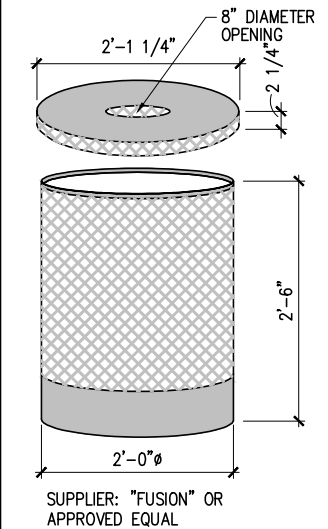
11 TYP BICYCLE TRACK
A-16 6"=1'-0"



9 PAVING AT LOWER LEVEL
A-16 1/8"=1'-0"



4 CEILING DETAIL
A-16 1/4"=1'-0"



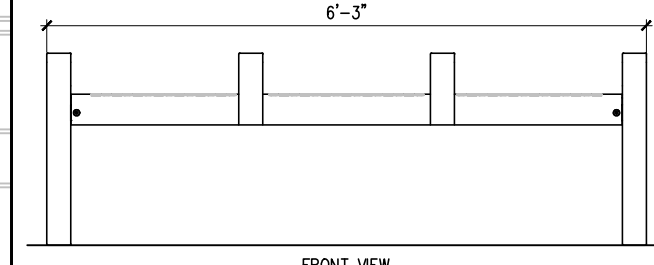
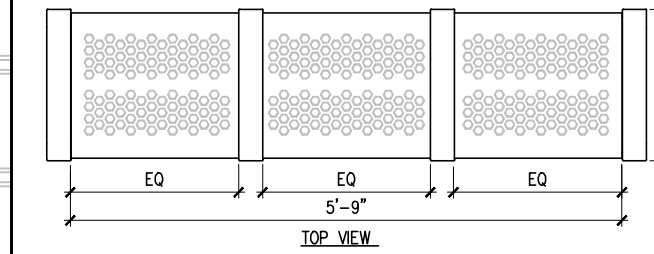
1 TYP TRASH RECEPTACLE
A-16 1"=1'-0"

NOTE:
32-GALLON FLAT TOP COVER
UNIT WT.: 21 LBS.
SHIP. WT.: 21 LBS.
1 CUBIC FOOT
BOX SIZE:
2 1/4"x25 1/2"x25 1/2"
SHIPPING CLASS: 100
OVERALL DIMENSIONS:
2 1/2"Hx25 1/4"D

32-GALLON LINER
UNIT WT.: 6 LBS.
SHIP. WT.: 6 LBS.
11 CUBIC FEET
BOX SIZE: 24 1/4"x24"x30"
SHIPPING CLASS: 100

F1021 32-GALLON RECEPTACLE
UNIT WT.: 66 LBS.
SHIP. WT.: 70 LBS.
11 CUBIC FEET
BOX SIZE: 24 1/4"x24 1/2" X 30"
SHIPPING CLASS: 100
OVERALL DIMENSIONS: 30"Hx24"D
MATERIAL: EXPANDED METAL,
WELDED WIRE MESH, TO MATCH
METRO STANDARD.
COLOR: GREY

SUPPLIER: "FUSION" OR
APPROVED EQUAL



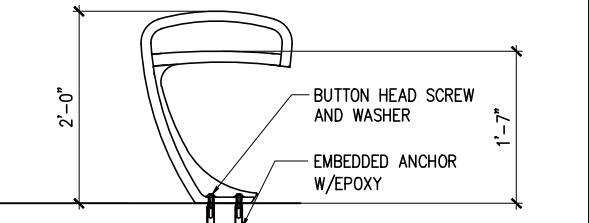
5 TYP BACKLESS BENCH
A-16 1"=1'-0"

NOTES: (BACKED AND BACKLESS BENCHES)

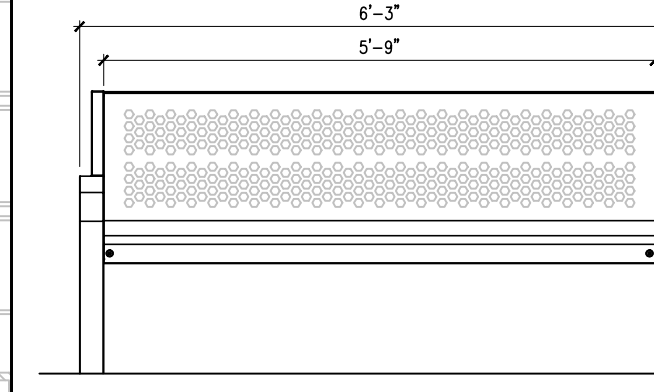
1. MATERIALS:
a. BENCH FRAMES: CAST ALUMINUM CANTILEVER TYPE WITH INTEGRAL ARMRESTS.
b. SEATS: FORMED STAINLESS STEEL, 2mm (NOM. 14 GAUGE) THICKNESS WITH 1" HEXAGONAL PERFORATIONS

2. FINISHES:
a. BENCH FRAMES: POLYESTER POWDERCOAT
1.) POWDERCOAT COLOR: BRIGHT SILVER OR APPROVED EQUAL
b. SEATS: STAINLESS STEEL WITH POLYESTER POWDERCOAT.
POWDERCOAT COLOR: BRIGHT SILVER OR APPROVAL EQUAL
2.) MOUNTING: SURFACE MOUNT. D/B CONTRACTOR TO PROVIDE ANCHORS AND STAINLESS STEEL MOUNTING SCREWS.

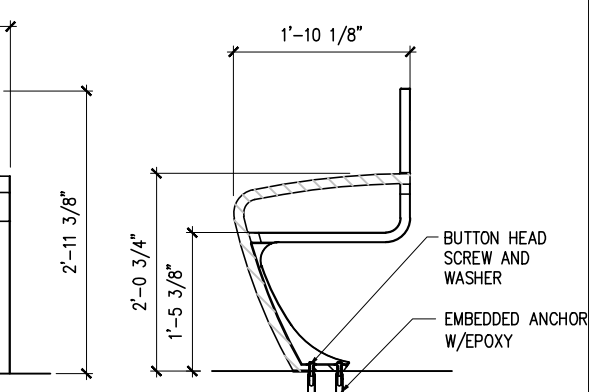
3. MANUFACTURER: a. FORM+SURFACE OR APPROVED EQUAL



NOTE:
SEE DETAIL 5/A-16 FOR INFORMATION.



6 TYP ADA COMPLIANT BENCH WITH BACK
A-16 1"=1'-0"



REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				ISSUED FOR BID
10/15/10				ADVANCED CONCEPTUAL ENGINEERING

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Los Angeles, CA 90017
www.stvinc.com

**EHRENKRANTZ
ECKSTUT
& KUHN
ARCHITECTS**

DESIGNED
E.E.K.

DRAWN BY
S.P. CASANO

CHECKED
M. FERNANDES

DATE
10/15/2010

M LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

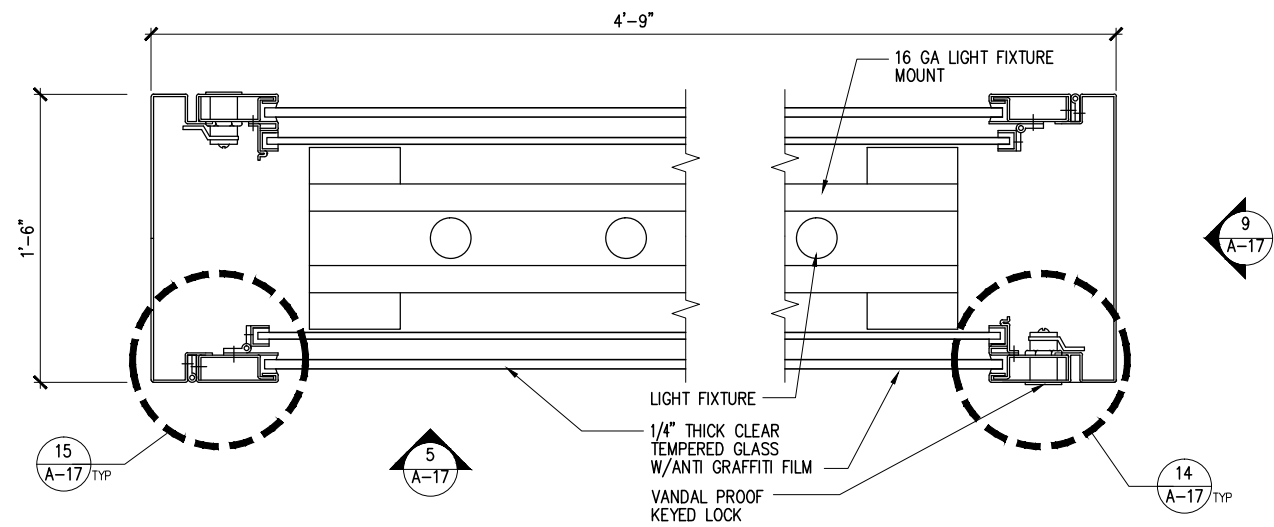
Metro

RECOMMENDED DATE APPROVED DATE

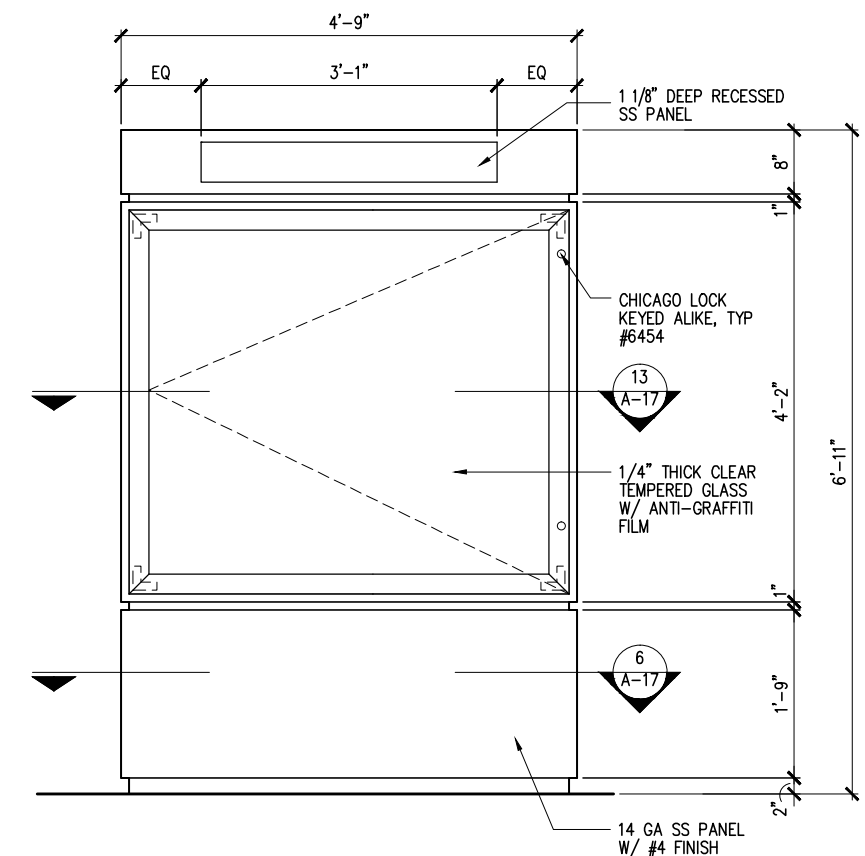
UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

MISCELLANEOUS DETAILS

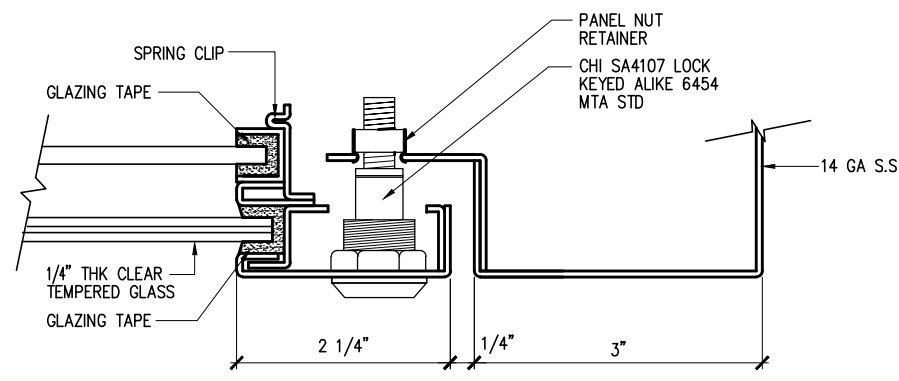
FILE/JOB NUMBER C0970
SCALE AS NOTED
DWG. NO. **A-16**
SHEET 43 OF 80



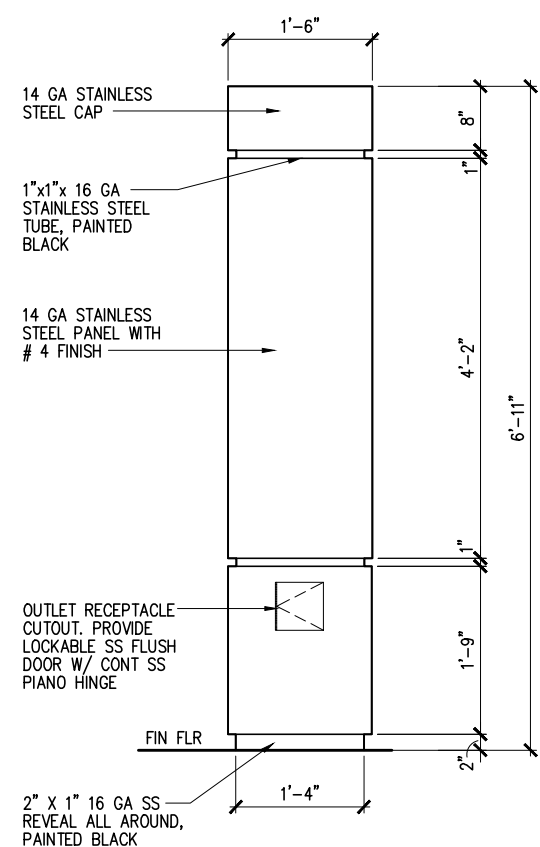
13 MAPCASE PLAN
A-17 3/8"=1'-0"



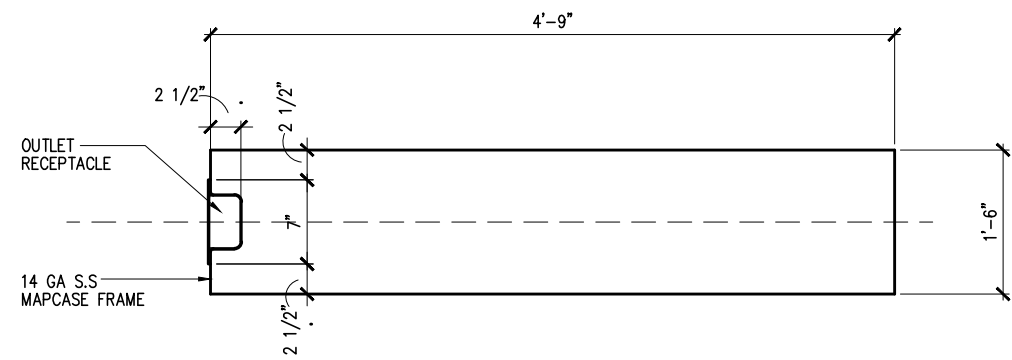
5 MAPCASE ELEVATION
A-17 1/8"=1'-0"



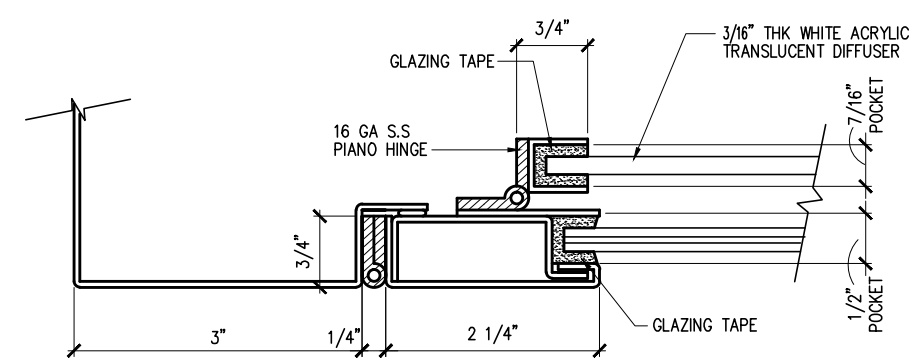
14 DETAIL AT LOCK
A-17 NOT TO SCALE



9 MAPCASE SIDE ELEVATION
A-17 1/8"=1'-0"



6 PLAN AT BASE
A-17 1 1/2"=1'-0"



15 DETAIL AT HINGE
A-17 NOT TO SCALE

REV.	DATE	BY	APP.	DESCRIPTION
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**EHRENKRANTZ
ECKSTUT
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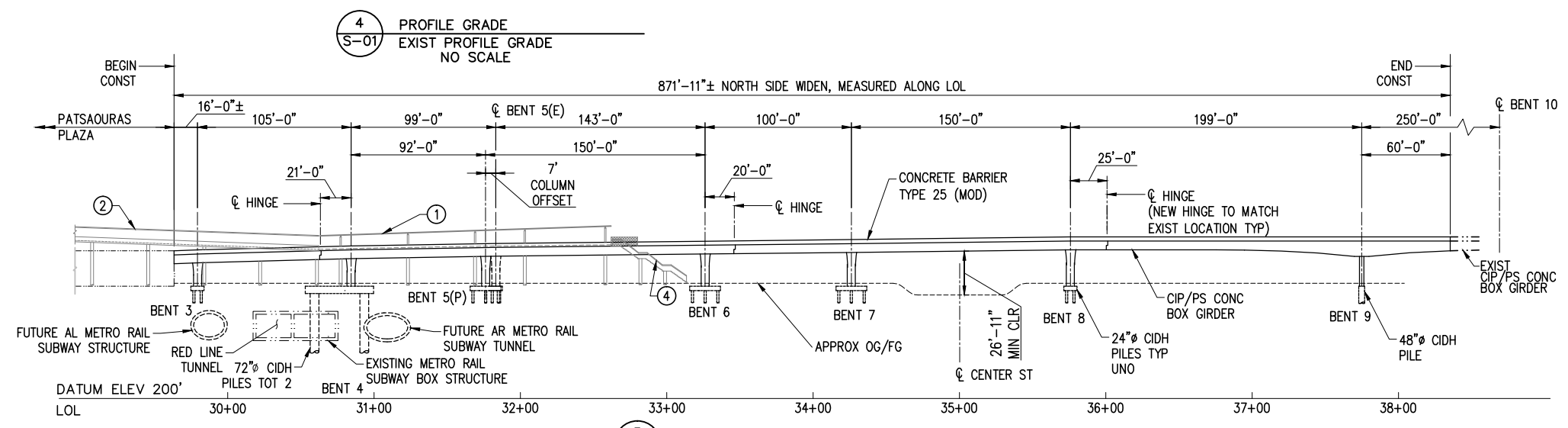
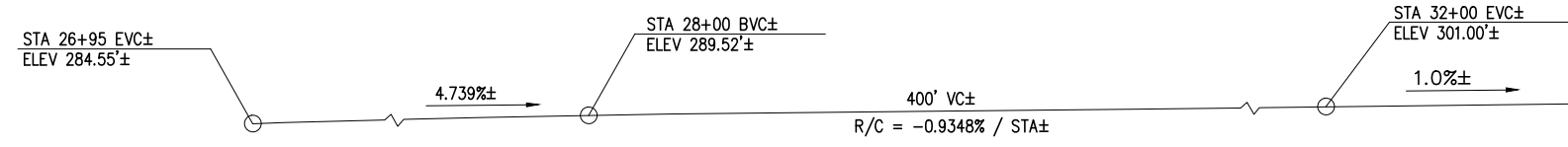
DESIGNED BY: **E.E.K.**
DRAWN BY: **S.P. CASANO**
CHECKED BY: **M. FERNANDES**
DATE: **10/15/2010**

Metro LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

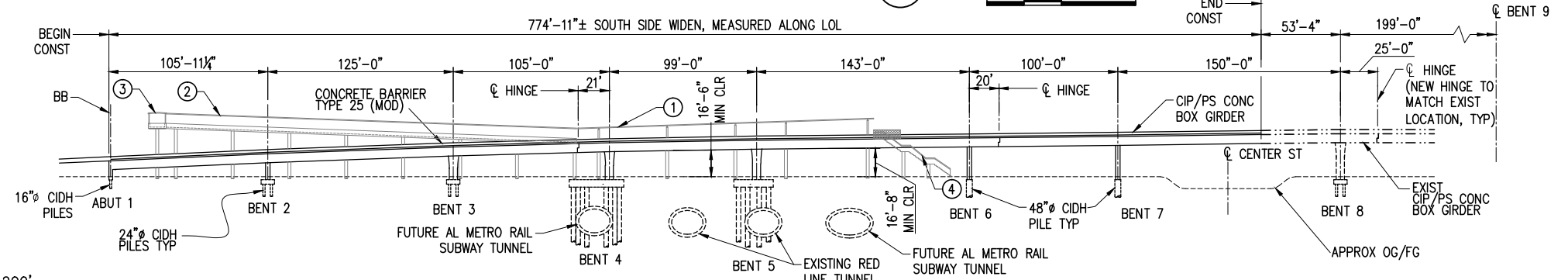
RECOMMENDED _____ DATE _____ APPROVED _____ DATE _____

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

FILE/JOB NUMBER: C0970
SCALE: AS NOTED
DWG. NO.: **A-17**
SHEET: 44 OF 80

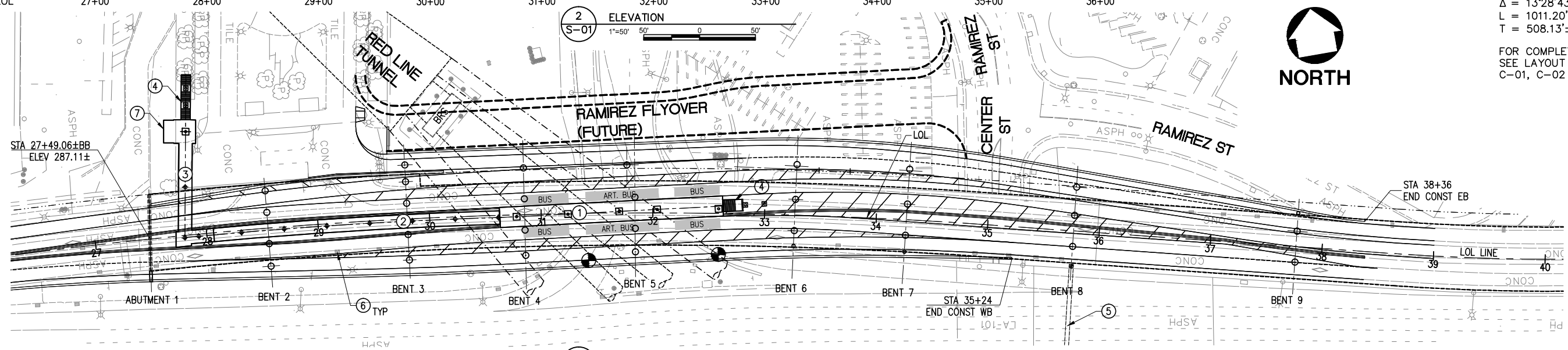


3 MIRROR ELEVATION
S-01
1"=50' 50'



DATUM ELEV 200'
LOL

2 ELEVATION
S-01
1"=50' 50'



1 PLAN
S-01
1"=50' 50'

- NOTES:**
- ① PLATFORM
SEE ARCHITECTURAL SHEET A-01
 - ② PEDESTRIAN WALKWAY
SEE ARCHITECTURAL SHEET A-01 & S-17
 - ③ PEDESTRIAN OVERCROSSING
SEE ARCHITECTURAL SHEET A-01 & S-17
 - ④ STAIRCASE
SEE ARCHITECTURAL SHEET A-03
 - ⑤ EXIST OVERHEAD SIGN STRUCTURE
(PROTECT IN PLACE)
 - ⑥ EXIST BRIDGE DECK DRAINS TO BE REMOVED. NEW DECK DRAINS TO BE SIZED AND LOCATED IN THE FINAL DESIGN. ALSO SEE SHEET C-09.
 - ⑦ ELEVATOR STRUCTURE
- LEGEND:**
- INDICATES EXISTING STRUCTURE
 - INDICATES NEW STRUCTURE
- BRS RED LINE TUNNEL
BLAST RELIEF SHAFT
● INDICATES POINT OF MIN VERTICAL CLEARANCE
(E) EXISTING
(P) PROPOSED

	NORTH SIDE	SOUTH SIDE
STRUCTURE DEPTH	= 6'-0" + VARIES	6'-0"
LENGTH	= 871'-11"	774'-11"
WIDTH (AVE)	= 28.15'	14.45'
AREA (SF)	= 24550	11200

LOL = ϕ EXISTING BRIDGE
 $R = 4300' \pm$
 $\Delta = 13'28'43" \pm$
 $L = 1011.20' \pm$
 $T = 508.13' \pm$

FOR COMPLETE LAYOUT INFORMATION
SEE LAYOUT SHEETS 1 THROUGH 3;
C-01, C-02 AND C-03



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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10/15/10				ADVANCED CONCEPTUAL ENGINEERING

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1055 West 7th Street, Suite 3150
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www.stvinc.com

DESIGNED D.SARETSKY
DRAWN BY DS/MP
CHECKED R.CAMPBELL
DATE 4/7/2011

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

RECOMMENDED	DATE	APPROVED	DATE
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UNION/PATSAOURAS PLAZA BUSWAY STATION DESIGN BUILD CONTRACT No. C0970	FILE/JOB NUMBER C0970
BUSWAY BRIDGE GENERAL PLAN	SCALE 1" = 50'
	DWG. NO. S-01
	SHEET 45 OF 80

Drawing Name: I:\Projects\4014653\4014653_0001\Drawings\STV\S-01.dwg, Plotted: Apr 25, 2012 - 3:06pm by: parient

BRIDGE GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:

1. AASHTO LRFD Bridge Design Specifications, Latest Caltrans Approved Edition with California Amendments.
2. Metro Design Criteria Section 5.

SPECIFICATIONS:

State of California Department of Transportation (Caltrans) Standard Specifications Latest Edition

SEISMIC DESIGN:

1. Caltrans Seismic Design Criteria Latest Edition.
2. Metro Supplemental Seismic Design Criteria for ODE and MDE.

DEAD LOAD:

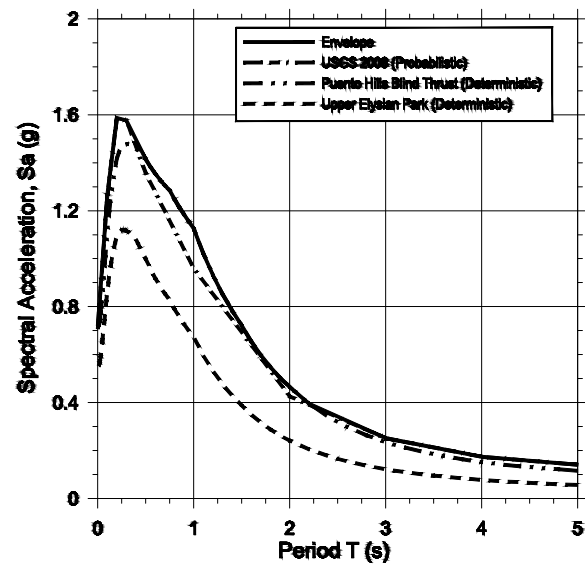
Includes 35 psf for future wearing surface.

LIVE LOADING:

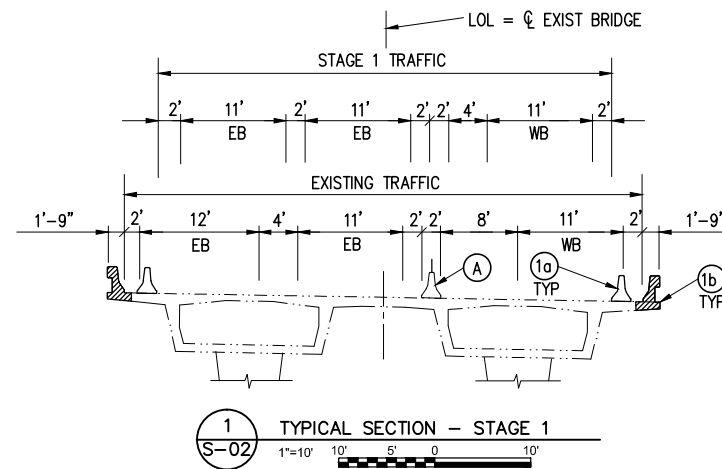
HL93 and permit design load.

PRELIMINARY CALTRANS SEISMIC LOADING

(For Information Only):
Based on Preliminary Foundation Report dated August 4, 2010 by Diaz Yourman & Associates



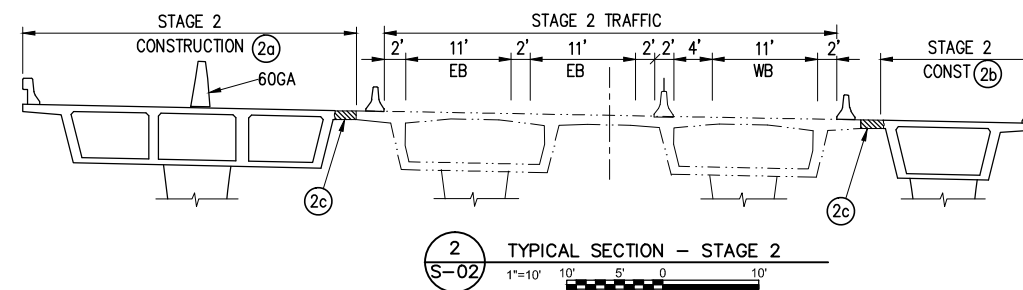
Horizontal Acceleration Response Spectrum, 5-percent Damping



- INDICATES EXISTING CONCRETE TO BE REMOVED
- CLOSURE POUR (CP)
- (A) EXIST TYPE 50C BARRIER

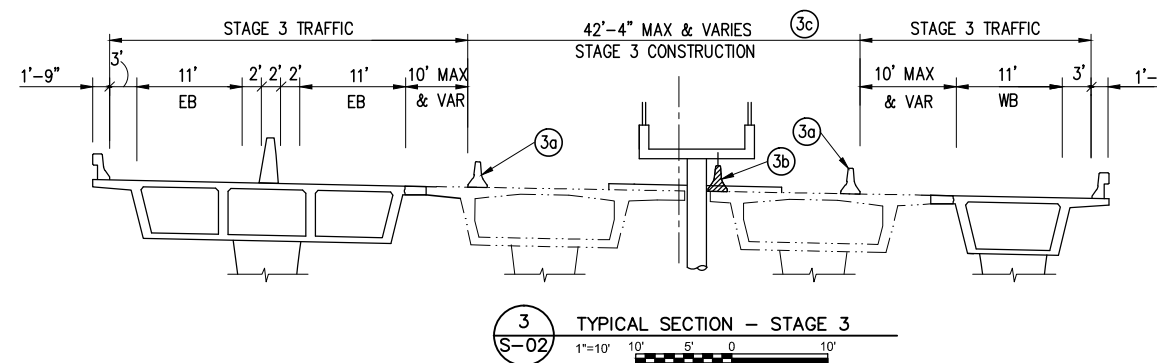
STAGE 1 CONSTRUCTION

- (1a) PLACE TEMP RAILING TYPE K
- (1b) REMOVE EXIST BARRIER AND OVERHANG



STAGE 2 CONSTRUCTION

- (2a) CONSTRUCT NORTH SIDE WIDEN
- (2b) CONSTRUCT SOUTH SIDE WIDEN
- (2c) PLACE CLOSURE POUR AND TYPE 60GA BARRIER



STAGE 3 CONSTRUCTION

- (3a) REPOSITION TEMP RAILING TYPE K
- (3b) DEMO EXIST TYPE 50 BARRIER
- (3c) CONSTRUCT MEDIAN BUS PLATFORM & PED RAMP

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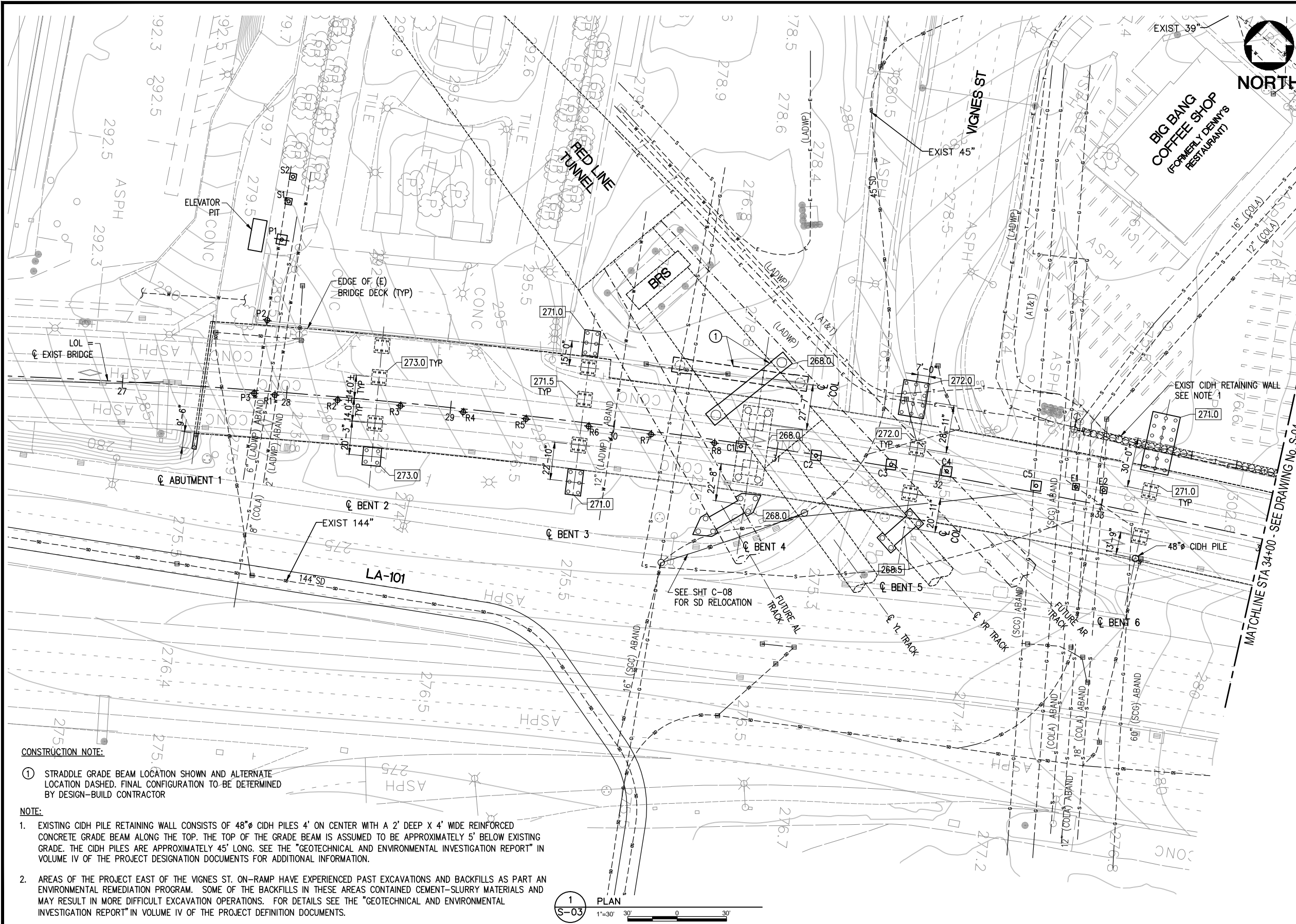
DESIGNED
D.SARETSKY
DRAWN BY
D.SARETSKY
CHECKED
R.CAMPBELL
DATE
4/7/2011

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970
BUSWAY BRIDGE
GENERAL NOTES & BRIDGE STAGE CONSTRUCTION

FILE/JOB NUMBER	C0970
SCALE	NONE
DWG. NO.	S-02
SHEET	46 OF 80

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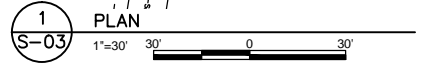
BENCHMARK
 BM #12-04270 ELEV = 278.35
 WIRE SPIKE IN NORTH CURB MACY ST 5.5' E OF BEG CURVE CURB
 RET E OF ALAMEDA ST W END C.B (1980 ADJ.)
 BM #12-04250 ELEV = 280.94'
 WIRE SPIKE IN WEST CURB VIGNES ST. 4' NORTH OF BC CURB
 RETURN TO MACY ST SOUTH END CB (1980 ADJ.)

- LEGEND**
- INDICATES EXISTING STRUCTURE
 - INDICATES FUTURE STRUCTURE
 - INDICATES NEW CONSTRUCTION
 - INDICATES EXISTING HP 14x89 STEEL PILE
 - INDICATES EXIST 48"Ø CIDH PILE
 - INDICATES NEW ABUTMENT 16"Ø CIDH PILE
 - INDICATES NEW 24"Ø CIDH PILE
55 TOTAL NORTH SIDE
14 TOTAL SOUTH SIDE
 - (C) INDICATES NEW 24"Ø CONCRETE COLUMN ON
6'x6'x1.5' FOOTING FOR CANOPY. 5 TOTAL
 - (E) INDICATES NEW 24"Ø CONCRETE COLUMN ON
4'x4'x1' FOOTING FOR EMERGENCY EGRESS STAIRS.
2 TOTAL
 - (S) INDICATES NEW 24"Ø CONCRETE COLUMN ON
4'SQ CONC PEDESTAL ON EXIST PARKING STRUCT.
2 TOTAL
 - (P) 24"Ø CONCRETE COLUMN ON 6' SQ CONC
PEDESTAL ON EXIST PARKING STRUCTURE.
1 TOTAL
 - INDICATES NEW 36"Ø CIDH PILE
10 TOTAL @ BENT 4 AND 5
STRADDLE GRADE BEAMS.
 - ◆ INDICATES NEW 36"Ø CIDH PILE FOR
PEDESTRIAN STRUCTURES
2 TOTAL @ PED BRIDGE (P)
8 TOTAL @ PED WALKWAY RAMP (R)
 - INDICATES NEW 72"Ø CIDH PILE
2 TOTAL
 - BRS BLAST RELIEF SHAFT
 - (E) EXISTING
 - (P) PROPOSED
 - INDICATES EXISTING OIL PIPE
 - INDICATES EXISTING SEWER PIPE
 - INDICATES EXIST ABANDONED SEWER PIPE
 - INDICATES EXISTING DRAIN PIPE
 - XXX.X BOTTOM OF FTG ELEVATION

CONSTRUCTION NOTE:
 ① STRADDLE GRADE BEAM LOCATION SHOWN AND ALTERNATE LOCATION DASHED. FINAL CONFIGURATION TO BE DETERMINED BY DESIGN-BUILD CONTRACTOR

NOTE:

- EXISTING CIDH PILE RETAINING WALL CONSISTS OF 48"Ø CIDH PILES 4' ON CENTER WITH A 2' DEEP X 4' WIDE REINFORCED CONCRETE GRADE BEAM ALONG THE TOP. THE TOP OF THE GRADE BEAM IS ASSUMED TO BE APPROXIMATELY 5' BELOW EXISTING GRADE. THE CIDH PILES ARE APPROXIMATELY 45' LONG. SEE THE "GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION REPORT" IN VOLUME IV OF THE PROJECT DESIGNATION DOCUMENTS FOR ADDITIONAL INFORMATION.
- AREAS OF THE PROJECT EAST OF THE VIGNES ST. ON-RAMP HAVE EXPERIENCED PAST EXCAVATIONS AND BACKFILLS AS PART AN ENVIRONMENTAL REMEDIATION PROGRAM. SOME OF THE BACKFILLS IN THESE AREAS CONTAINED CEMENT-SLURRY MATERIALS AND MAY RESULT IN MORE DIFFICULT EXCAVATION OPERATIONS. FOR DETAILS SEE THE "GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION REPORT" IN VOLUME IV OF THE PROJECT DEFINITION DOCUMENTS.
- ALL UTILITY RELOCATIONS NOT SHOWN. SEE DWG C0-10 & C-11 FOR DETAILS.



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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10/15/10				ADVANCED CONCEPTUAL ENGINEERING

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 Los Angeles, CA 90017
 www.stvinc.com

DESIGNED D.SARETSKY
DRAWN BY D.BARRAZA
CHECKED R.CAMPBELL
DATE 4/7/2011

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

RECOMMENDED	DATE	APPROVED	DATE
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UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

BUSWAY BRIDGE FOUNDATION PLAN SHEET 1 OF 2

FILE/JOB NUMBER C0970
SCALE 1" = 30'
DWG. NO. S-03
SHEET 47 OF 80

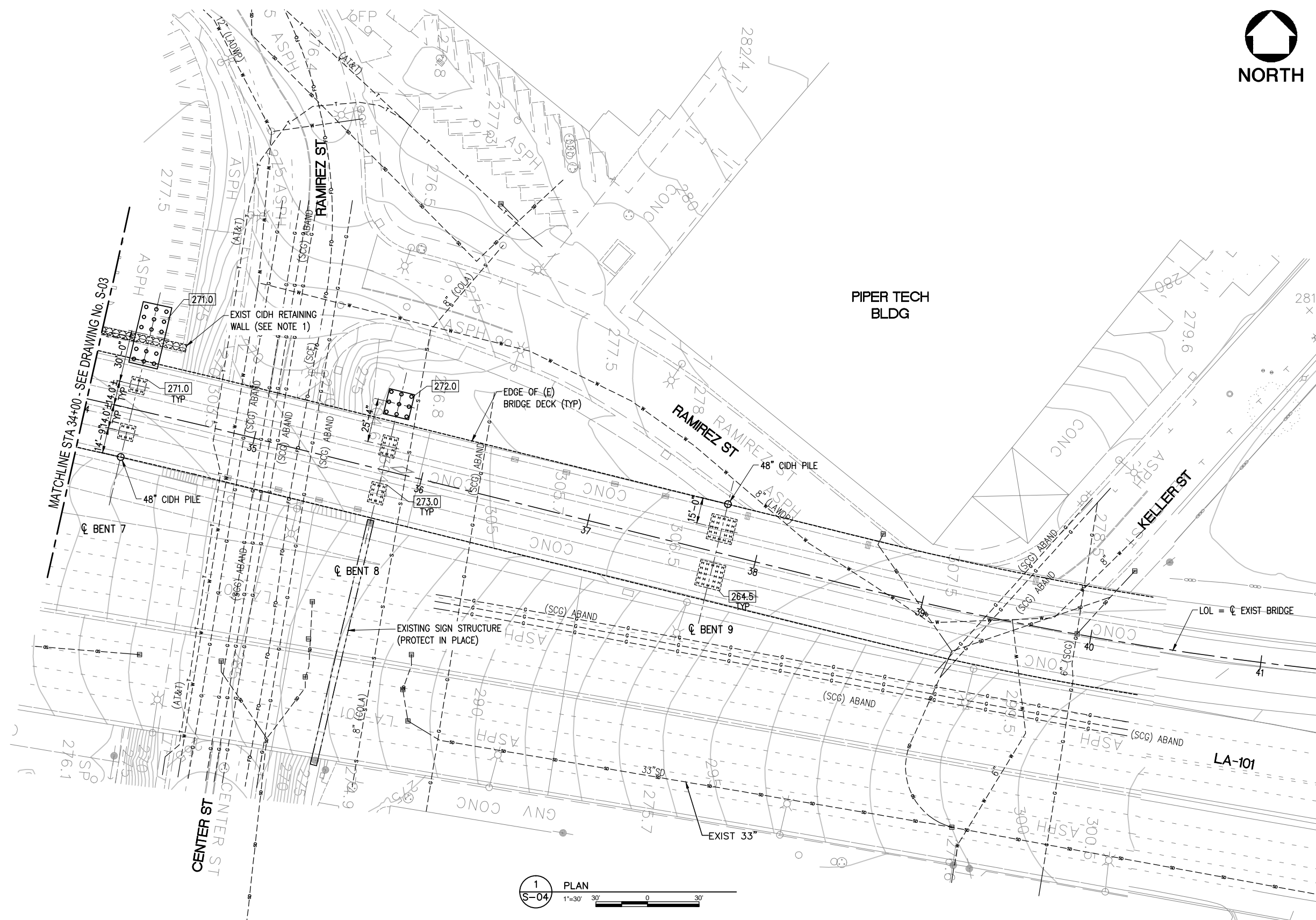
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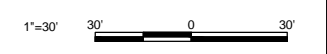
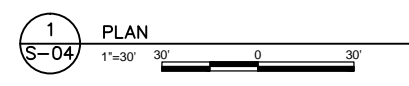
BENCHMARK
 BM #12-04270 ELEV = 278.35
 WIRE SPIKE IN NORTH CURB MACY ST 5.5' E OF BEG CURVE
 CURB RET E OF ALAMEDA ST W END C.B (1980 ADJ)

BM #12-04250 ELEV = 280.94'
 WIRE SPIKE IN WEST CURB VIGNES ST. 4' NORTH OF BC
 CURB RETURN TO MACY ST SOUTH END CB (1980 ADJ)

- LEGEND**
- INDICATES EXISTING STRUCTURE
 - INDICATES NEW CONSTRUCTION
 - " INDICATES EXISTING HP 14x89 STEEL PILE
 - INDICATES NEW 24"Ø CIDH PILE
55 TOTAL NORTH SIDE
14 TOTAL SOUTH SIDE
 - INDICATES NEW 48"Ø CIDH PILE
 - INDICATES EXISTING OIL PIPE
 - INDICATES EXISTING SEWER PIPE
 - INDICATES EXIST ABANDONED SEWER PIPE
 - INDICATES EXISTING DRAIN PIPE
 - 268.5 INDICATES BOTTOM OF FTG ELEVATION



- NOTE:**
- EXISTING CIDH PILE RETAINING WALL CONSISTS OF 48"Ø CIDH PILES 4' ON CENTER WITH A 2' DEEP X 4' WIDE REINFORCED CONCRETE GRADE BEAM ALONG THE TOP. THE TOP OF THE GRADE BEAM IS ASSUMED TO BE APPROXIMATELY 5' BELOW EXISTING GRADE. THE CIDH PILES ARE APPROXIMATELY 45' LONG. SEE THE "GEOLOGICAL AND ENVIRONMENTAL INVESTIGATION REPORT" IN VOLUME IV OF THE PROJECT DESIGNATION DOCUMENTS FOR ADDITIONAL INFORMATION.
 - AREAS OF THE PROJECT EAST OF THE VIGNES ST. ON-RAMP HAVE EXPERIENCED PAST EXCAVATIONS AND BACKFILLS AS PART AN ENVIRONMENTAL REMEDIATION PROGRAM. SOME OF THE BACKFILLS IN THESE AREAS CONTAINED CEMENT-SLURRY MATERIALS AND MAY RESULT IN MORE DIFFICULT EXCAVATION OPERATIONS. FOR DETAILS SEE THE "GEOLOGICAL AND ENVIRONMENTAL INVESTIGATION REPORT" IN VOLUME IV OF THE PROJECT DEFINITION DOCUMENTS.
 - ALL UTILITY RELOCATIONS NOT SHOWN. SEE DWG C0-10 & C-11 FOR DETAILS.



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DESIGNED: D.SARETSKY
 DRAWN BY: D.BARRAZA
 CHECKED: R.CAMPBELL
 DATE: 4/7/2011

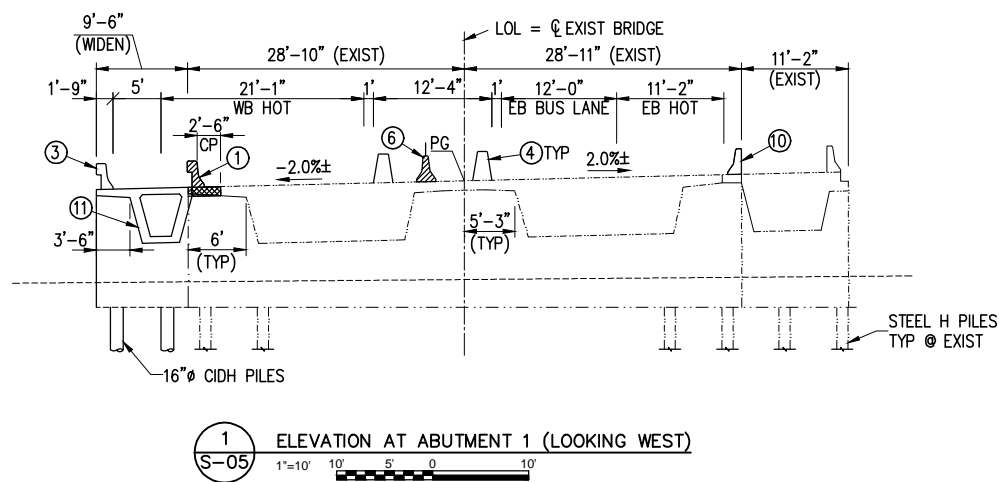
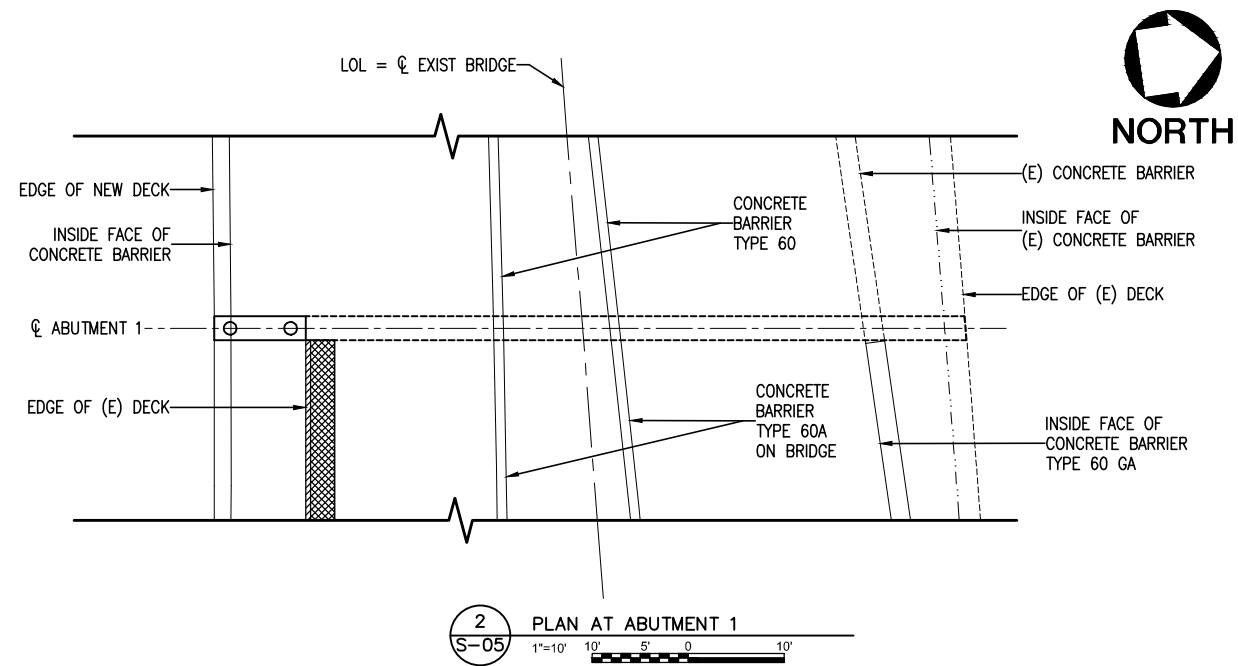
M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
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UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

BUSWAY BRIDGE FOUNDATION PLAN SHEET 2 OF 2

FILE/JOB NUMBER	C0970
SCALE	1" = 30'
DWG. NO.	S-04
SHEET	48 OF 80

Drawing Name: I:\Projects\4014653_0001\Drawings\STA\S-04.dwg Plotter: Apr 25, 2012 - 3:06pm By: partent



- LEGEND:**
- LIMITS OF BRIDGE REMOVAL
 - CLOSURE POUR
 - CP = CLOSURE POUR

- NOTES:**
- 1 REMOVE EXISTING BARRIER AND 3' OF DECK OVERHANG
 - 3 CONCRETE BARRIER TYPE 25 (MOD)
 - 4 CONCRETE BARRIER TYPE 60A
 - 6 REMOVE EXISTING CONCRETE BARRIER TYPE 50A(MOD)
 - 10 EXISTING CONCRETE BARRIER
 - 11 6' DEEP CIP/RC BOX GIRDER

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				ISSUED FOR BID
10/15/10				ADVANCED CONCEPTUAL ENGINEERING

STV
STV Incorporated
1055 West 7th Street, Suite 3150
Los Angeles, CA 90017
www.stvinc.com

DESIGNED
D.SARETSKY
DRAWN BY
M.PARTENHEIMER
CHECKED
R.CAMPBELL
DATE
4/7/2011

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

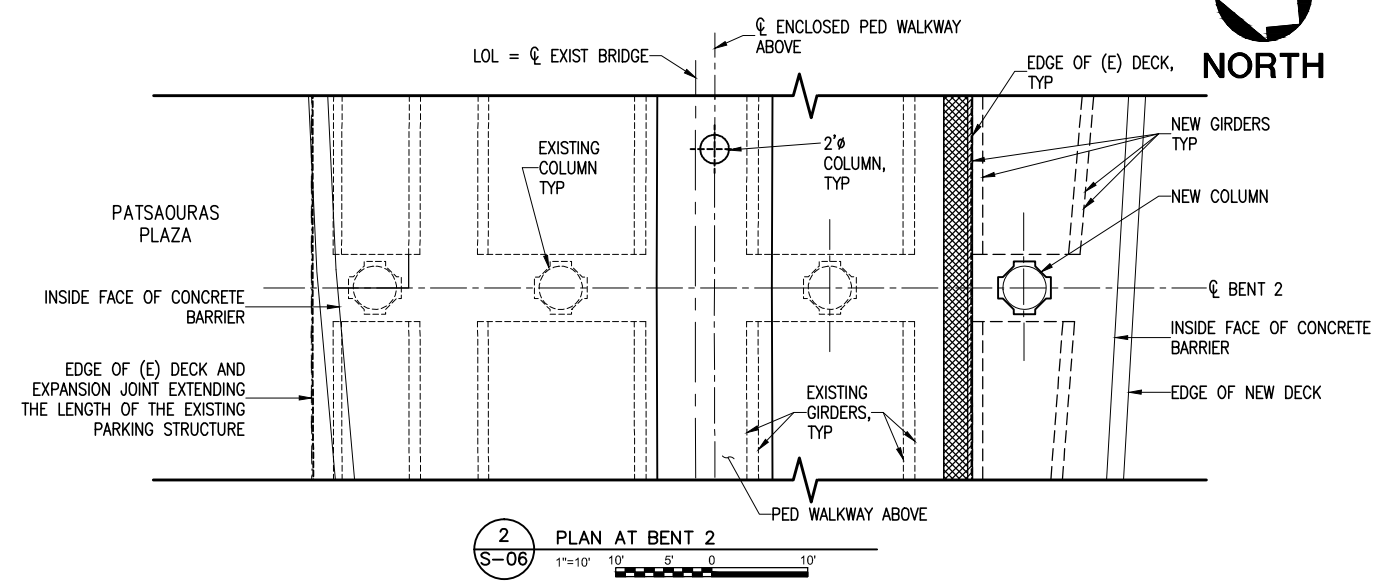
RECOMMENDED _____ DATE _____ APPROVED _____ DATE _____

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

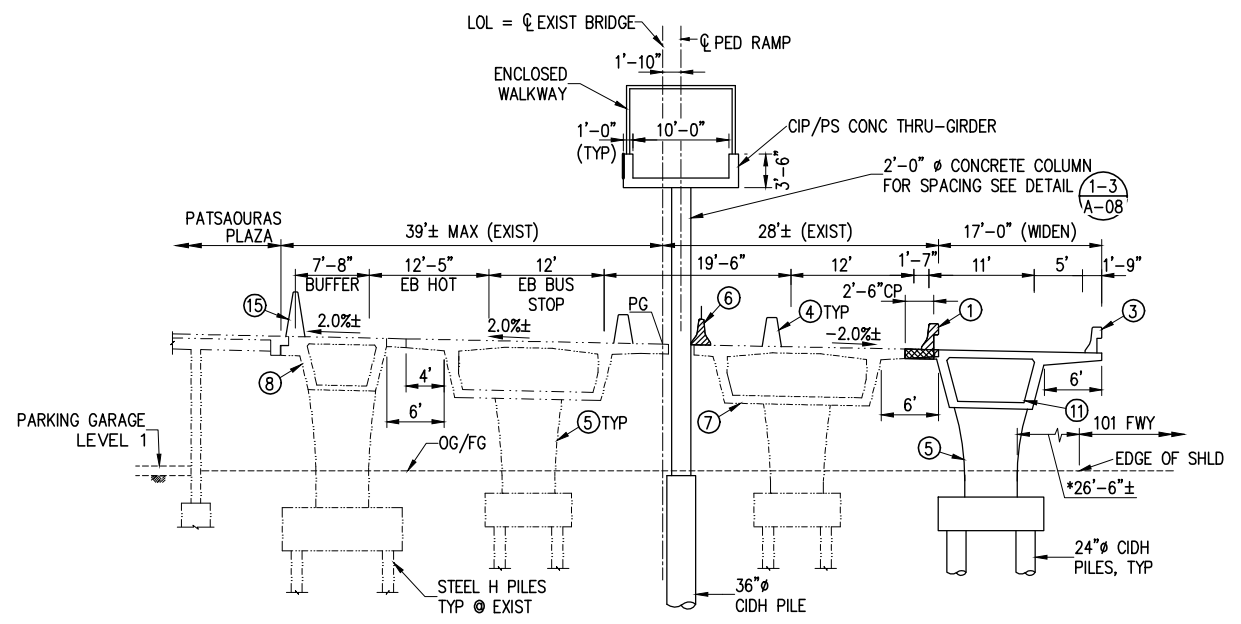
**BUSWAY BRIDGE
ABUTMENT 1 LAYOUT**

FILE/JOB NUMBER	C0970
SCALE	1" = 10'
DWG. NO.	S-05
SHEET	49 OF 80

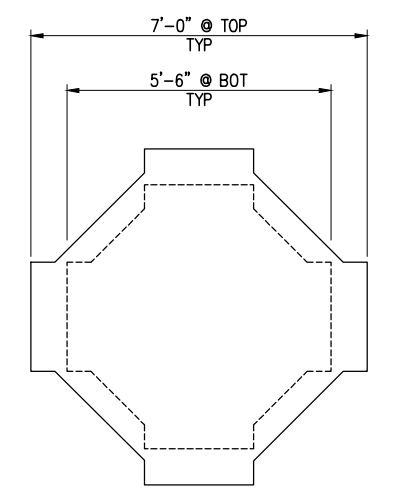
Drawing Name: I:\Projects\4014653_0001\Drawings\STA\S-05.dwg Plotter: Apr 25, 2012 - 3:06pm By: partentm



2 PLAN AT BENT 2
S-06 1"=10' 10' 5' 0' 10'



1 ELEVATION AT BENT 2 (LOOKING EAST)
S-06 1"=10' 10' 5' 0' 10'



3 TYP COLUMN SECTION
2-WAY FLARE 5'-6" TO 7'-0"
S-06 1"=2' 2' 0' 2'

- LEGEND:
- LIMITS OF BRIDGE REMOVAL
 - CLOSURE POUR
 - CP = CLOSURE POUR

- NOTES:
- * MEASURED PERPENDICULAR TO BENT
 - ① REMOVE EXISTING BARRIER AND 3' OF DECK OVERHANG
 - ③ CONCRETE BARRIER TYPE 25 (MOD)
 - ④ CONCRETE BARRIER TYPE 60A
 - ⑤ 2-WAY FLARED COLUMN 5'-6" TO 7'-0" (SEE DETAIL (3) S-06)
 - ⑥ REMOVE EXISTING CONCRETE BARRIER TYPE 50A(MOD)
 - ⑦ EXISTING 6' DEEP CIP/RC BOX GIRDER
 - ⑧ EXISTING 6' DEEP CIP/PS BOX GIRDER
 - ⑪ 6' DEEP CIP/RC BOX GIRDER
 - ⑬ CONCRETE BARRIER TYPE 60GA

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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DESIGNED D.SARETSKY
DRAWN BY M.PARTENHEIMER
CHECKED R.CAMPBELL
DATE 4/7/2011

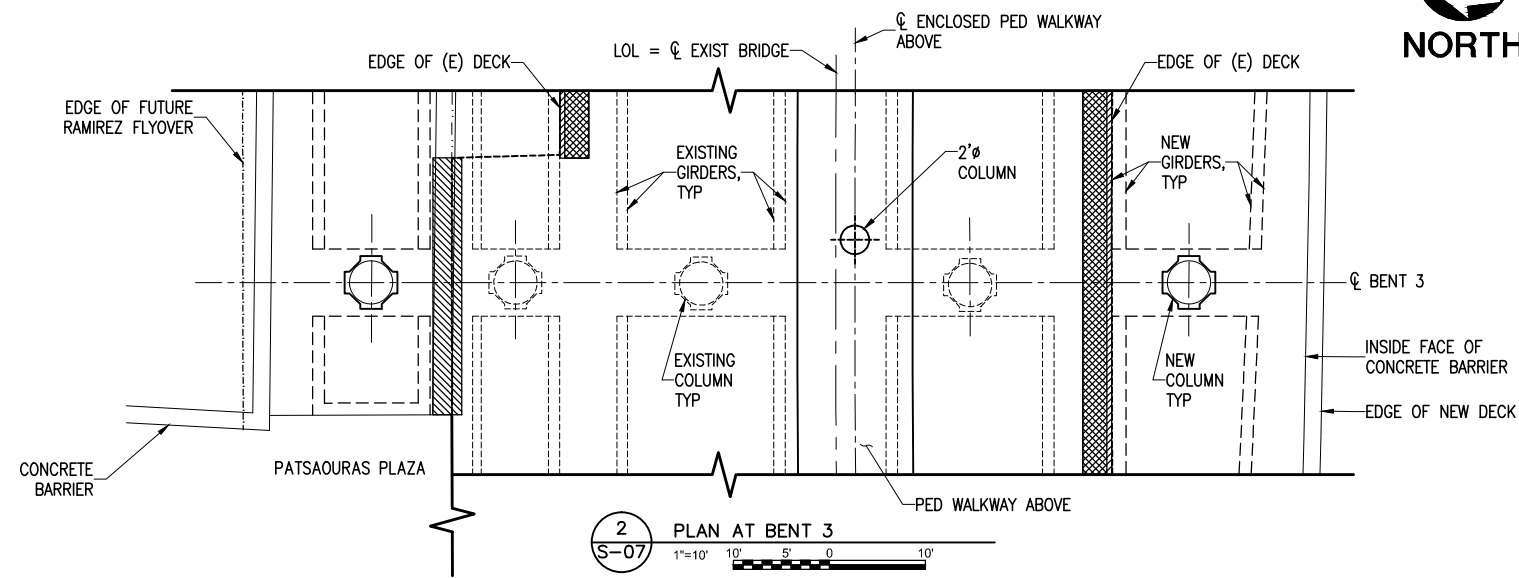
M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

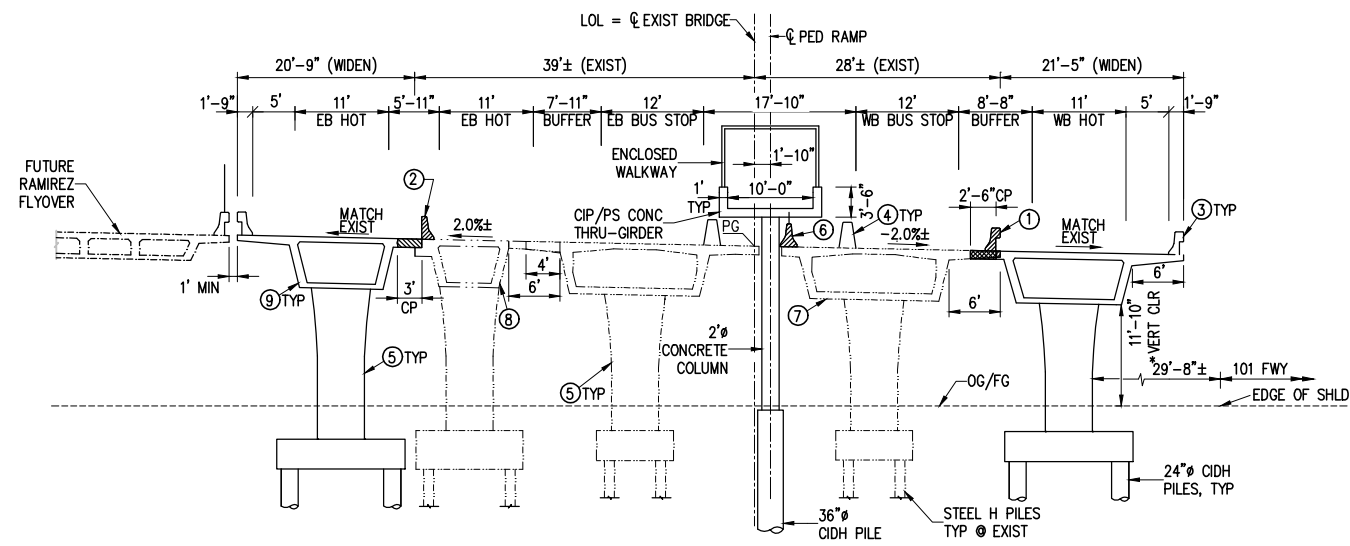
**BUSWAY BRIDGE
BENT 2 LAYOUT**

FILE/JOB NUMBER C0970
SCALE 1" = 10'
DWG. NO. S-06
SHEET 50 OF 80

Drawing Name: I:\Projects\4014653_0001\Drawings\STPA\S-06.dwg Pch: Apr 25, 2012 - 3:06pm By: partentm



2 PLAN AT BENT 3
1"=10' 10' 5' 0' 10'



1 ELEVATION AT BENT 3 (LOOKING EAST)
1"=10' 10' 5' 0' 10'

LEGEND:
 LIMITS OF BRIDGE REMOVAL
 CLOSURE POUR
 CP = CLOSURE POUR

- NOTES:
 * MEASURED PERPENDICULAR TO BENT
 ① REMOVE EXISTING BARRIER AND 3' OF DECK OVERHANG
 ② REMOVE EXISTING CONCRETE BARRIER TYPE 27
 ③ CONCRETE BARRIER TYPE 25 (MOD)
 ④ CONCRETE BARRIER TYPE 60A
 ⑤ 2-WAY FLARED COLUMN 5'-6" TO 7'-0" (SEE DETAIL 3 S-06)
 ⑥ REMOVE EXISTING CONCRETE BARRIER TYPE 50A(MOD)
 ⑦ EXISTING 6' DEEP CIP/RC BOX GIRDER
 ⑧ EXISTING 6' DEEP CIP/PS BOX GIRDER
 ⑨ 6' DEEP CIP/PS BOX GIRDER

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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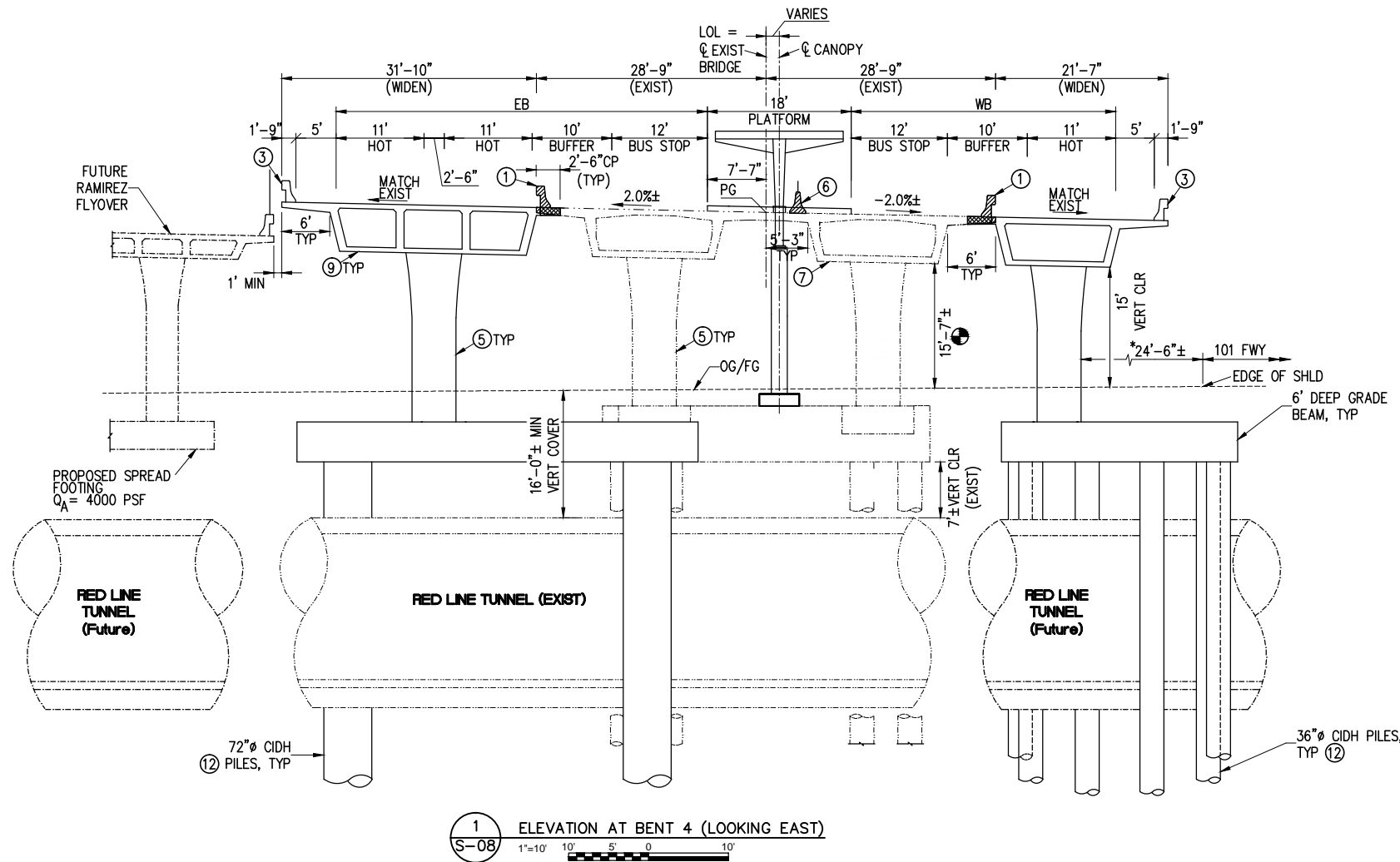
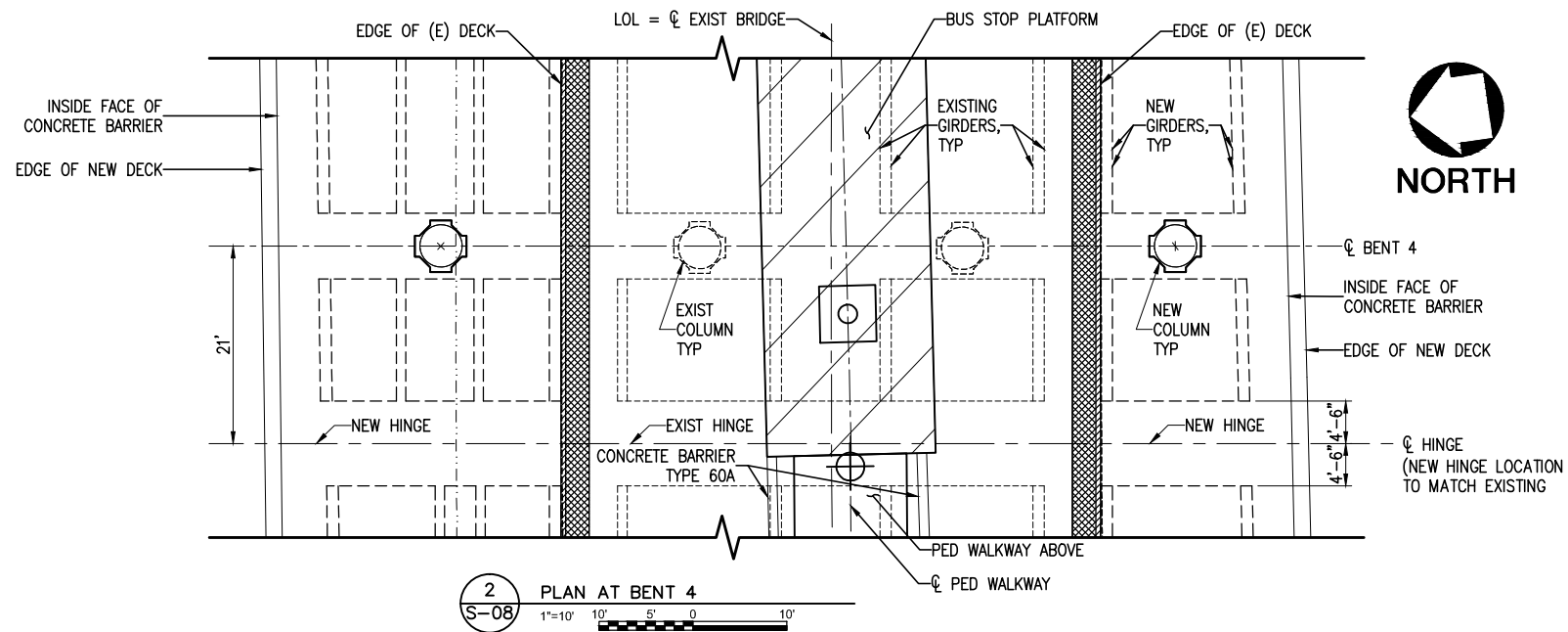
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

**BUSWAY BRIDGE
 BENT 3 LAYOUT**

FILE/JOB NUMBER	C0970
SCALE	1" = 10'
DWG. NO.	S-07
SHEET	51 OF 80

Drawing Name: I:\Projects\4014653_0001\Drawings\STA\S-07.dwg Plotter: Apr 25, 2012 - 3:06pm by: partentm



- LEGEND:**
- LIMITS OF BRIDGE REMOVAL
 - CLOSURE POUR
 - EXISTING MIN CLEARANCE
 - CP = CLOSURE POUR

- NOTES:**
- * MEASURED PERPENDICULAR TO BENT
 - ① REMOVE EXISTING BARRIER AND 3' OF DECK OVERHANG
 - ③ CONCRETE BARRIER TYPE 25 (MOD)
 - ⑤ 2-WAY FLARED COLUMN 5'-6" TO 7'-0" (SEE DETAIL)
 - ⑥ REMOVE EXISTING CONCRETE BARRIER TYPE 50A(MOD)
 - ⑦ EXISTING 6' DEEP CIP/RC BOX GIRDER
 - ⑧ 6' DEEP CIP/PS BOX GIRDER
 - ⑫ CONTRACTOR TO SUBMIT CONSTRUCTION PROCEDURES AND PROTECTION METHODS TO METRO FOR APPROVAL PRIOR TO CONSTRUCTION.

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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4/7/2011

M LOS ANGELES COUNTY
Metro METROPOLITAN TRANSPORTATION AUTHORITY

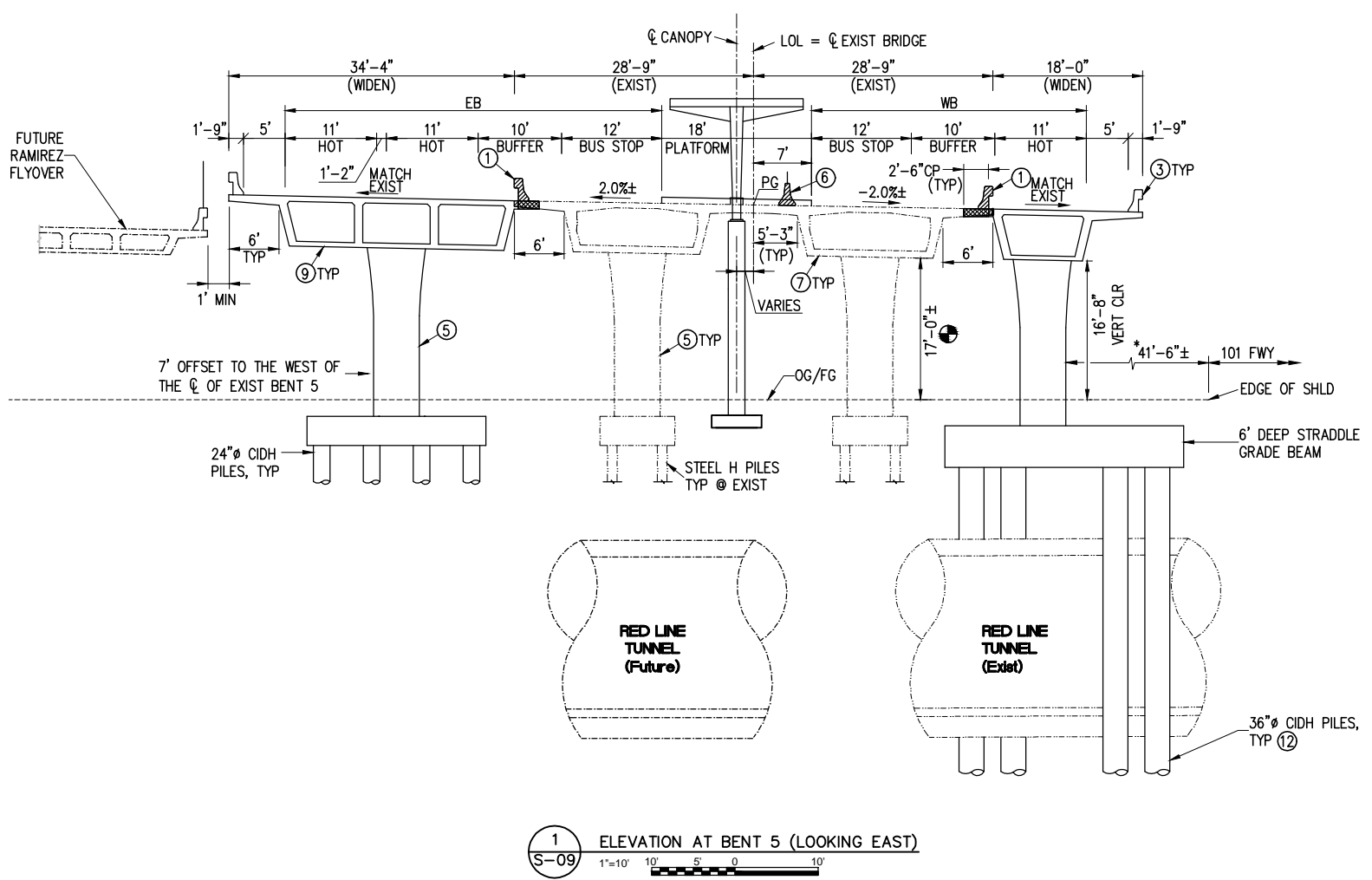
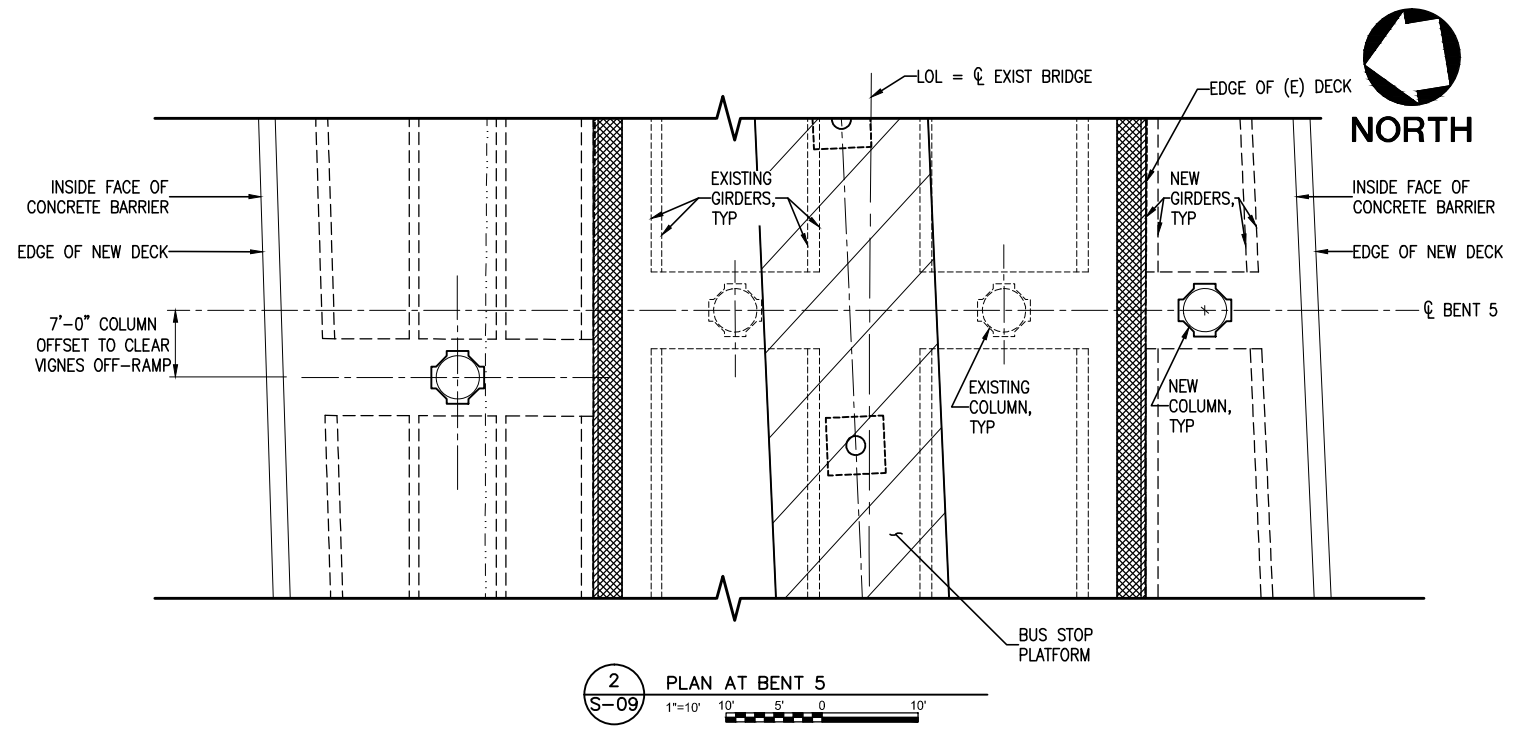
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

**BUSWAY BRIDGE
 BENT 4 LAYOUT**

FILE/JOB NUMBER	C0970
SCALE	1" = 10'
DWG. NO.	S-08
SHEET	52 OF 80

Drawing Name: I:\Projects\4014653_0001\Drawings\STA\S-08.dwg Plotter: Apr 25, 2012 - 3:06pm By: partent



- LEGEND:**
- LIMITS OF BRIDGE REMOVAL
 - CLOSURE POUR
 - EXISTING MIN CLEARANCE
 - CP = CLOSURE POUR
- NOTES:**
- * MEASURED PERPENDICULAR TO BENT
 - ① REMOVE EXISTING BARRIER AND 3' OF DECK OVERHANG
 - ③ CONCRETE BARRIER TYPE 25 (MOD)
 - ⑤ 2-WAY FLARED COLUMN 5'-6" TO 7'-0" (SEE DETAIL S-06)
 - ⑥ REMOVE EXISTING CONCRETE BARRIER TYPE 50A(MOD)
 - ⑦ EXISTING 6" DEEP CIP/RC BOX GIRDER
 - ⑧ 6" DEEP CIP/PS BOX GIRDER
 - ⑫ CONTRACTOR TO SUBMIT CONSTRUCTION PROCEDURES AND PROTECTION METHODS TO METRO FOR APPROVAL PRIOR TO CONSTRUCTION.

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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10/15/10				ADVANCED CONCEPTUAL ENGINEERING

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 DRAWN BY
M.PARTENHEIMER
 CHECKED
R.CAMPBELL
 DATE
4/7/2011

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
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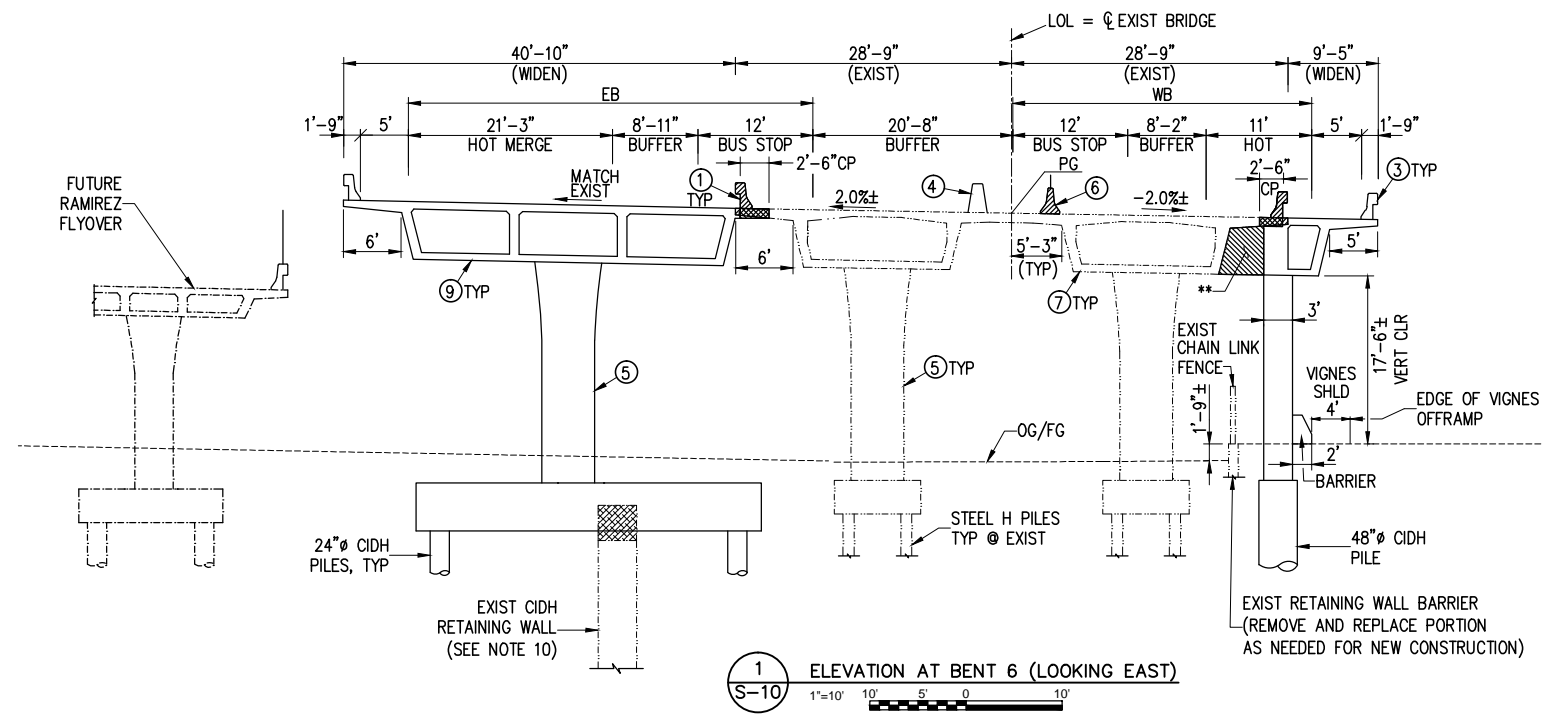
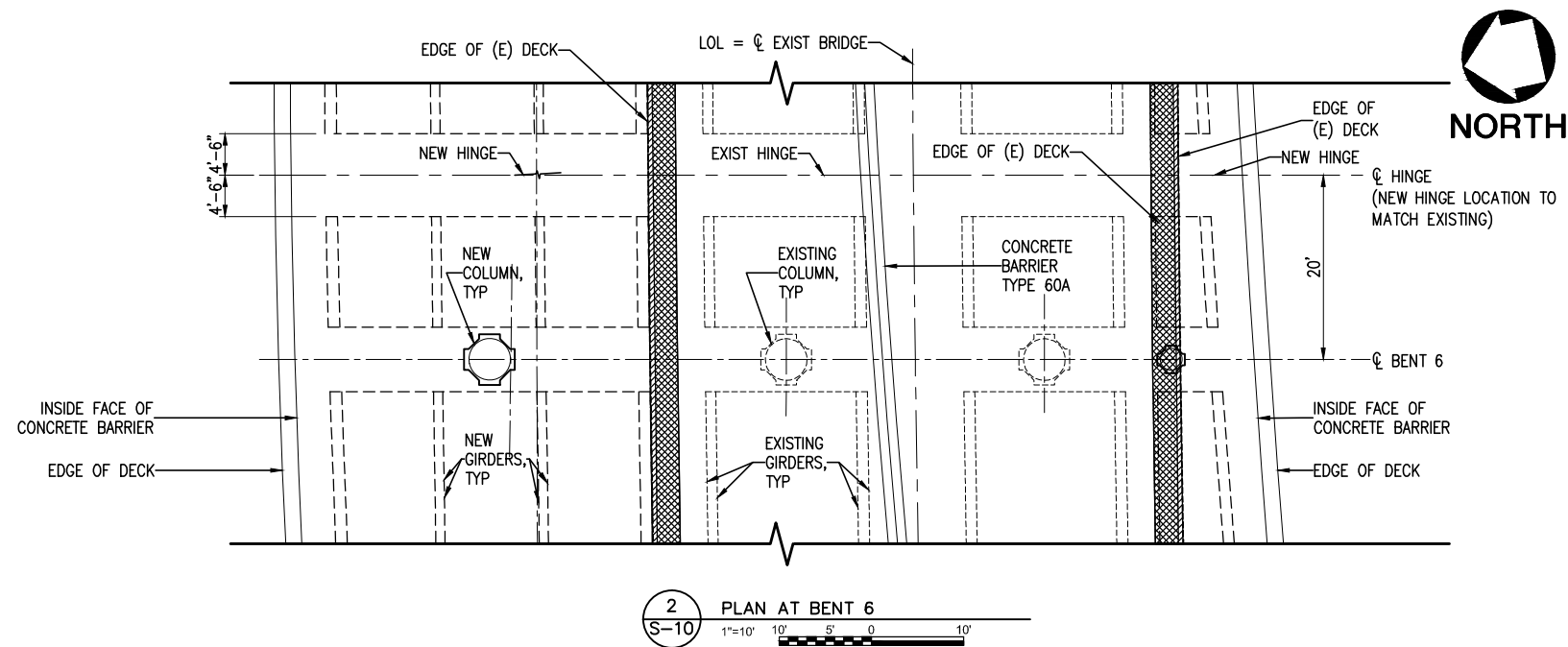
RECOMMENDED _____ DATE _____ APPROVED _____ DATE _____

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

BUSWAY BRIDGE BENT 5 LAYOUT

FILE/JOB NUMBER	C0970
SCALE	1" = 10'
DWG. NO.	S-09
SHEET	53 OF 80

Drawing Name: I:\Projects\4014653_0001\Drawings\STV\S-09.dwg Plot Date: Apr 25, 2012 3:06pm By: partentm



- LEGEND:**
- [Hatched Box] LIMITS OF BRIDGE REMOVAL
 - [Hatched Box] CLOSURE POUR
 - [Hatched Box] LIMITS OF CIDH PILE RETAINING WALL REMOVAL
 - CP = CLOSURE POUR

- NOTES:**
- * MEASURED PERPENDICULAR TO BENT
 - ** EXTEND BENT CAP
 - ① REMOVE EXISTING BARRIER AND 3' OF DECK OVERHANG
 - ③ CONCRETE BARRIER TYPE 25 (MOD)
 - ④ CONCRETE BARRIER TYPE 60A
 - ⑤ 2-WAY FLARED COLUMN 5'-6" TO 7'-0" (SEE DETAIL 3/S-06)
 - ⑥ REMOVE EXISTING CONCRETE BARRIER TYPE 50A(MOD)
 - ⑦ EXISTING 6" DEEP CIP/RC BOX GIRDER
 - ⑧ 6" DEEP CIP/PS BOX GIRDER
 - ⑩ EXISTING CIDH PILE RETAINING WALL CONSIST OF 48"Ø CIDH PILES 4' ON CENTER WITH A 2' DEEP X 4' WIDE REINFORCED CONCRETE GRADE BEAM ALONG THE TOP. THE TOP OF THE GRADE BEAM IS ASSUMED TO BE APPROXIMATELY 5' BELOW EXISTING GRADE. THE CIDH PILES ARE APPROXIMATELY 45' DEEP. SEE REFERENCE DRAWINGS FOR ADDITIONAL INFORMATION.

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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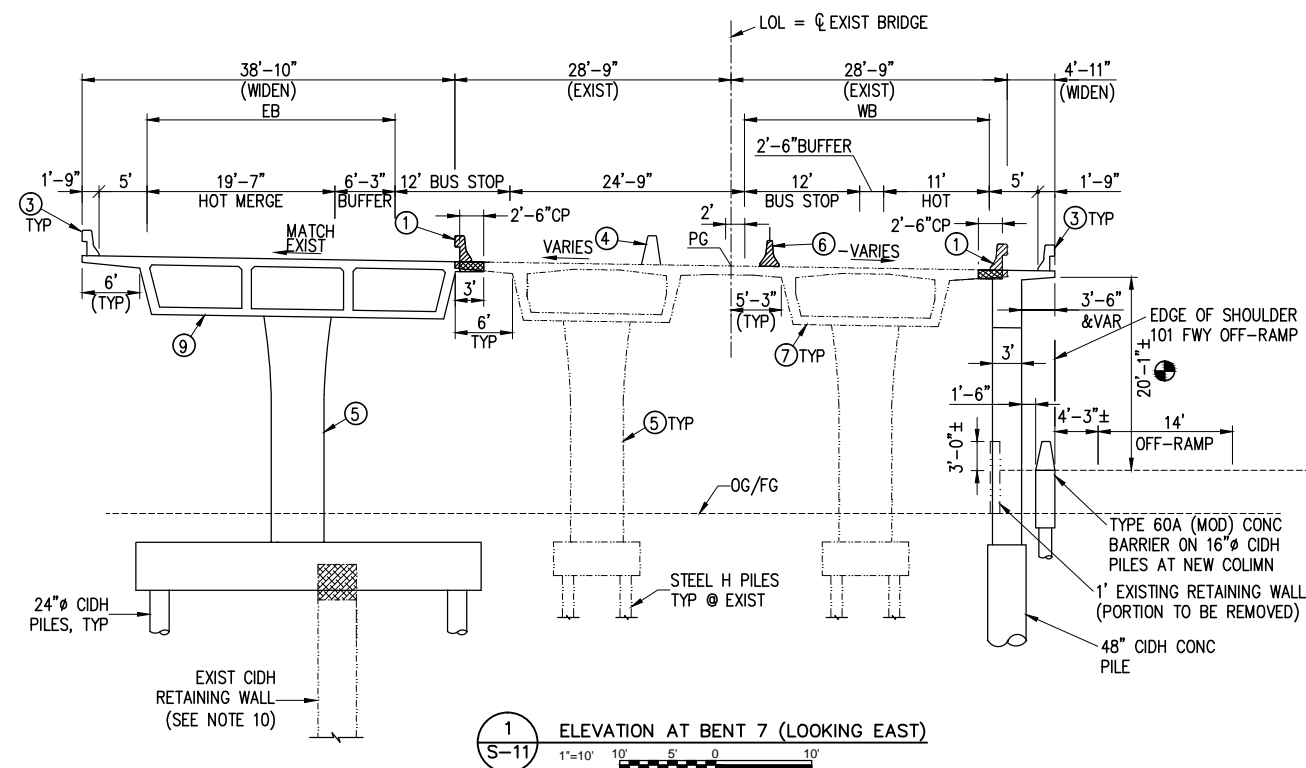
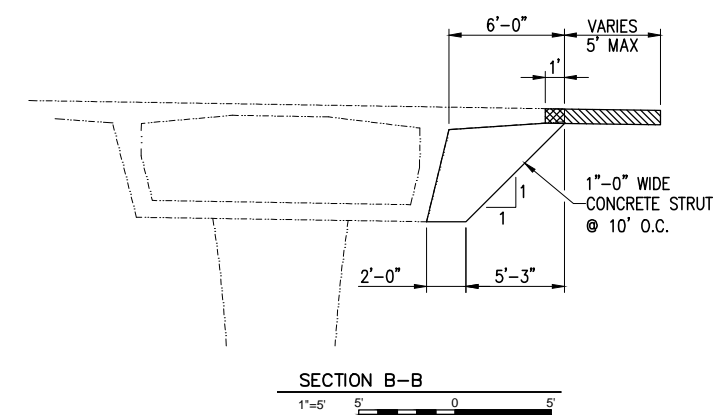
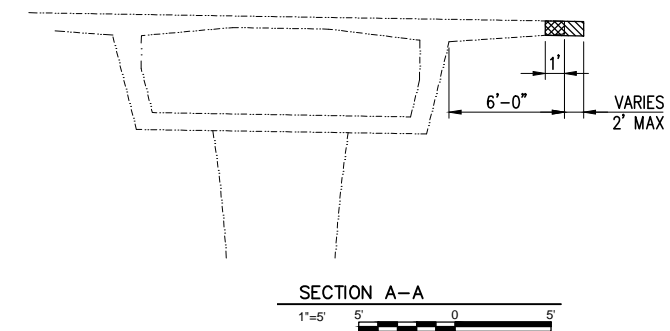
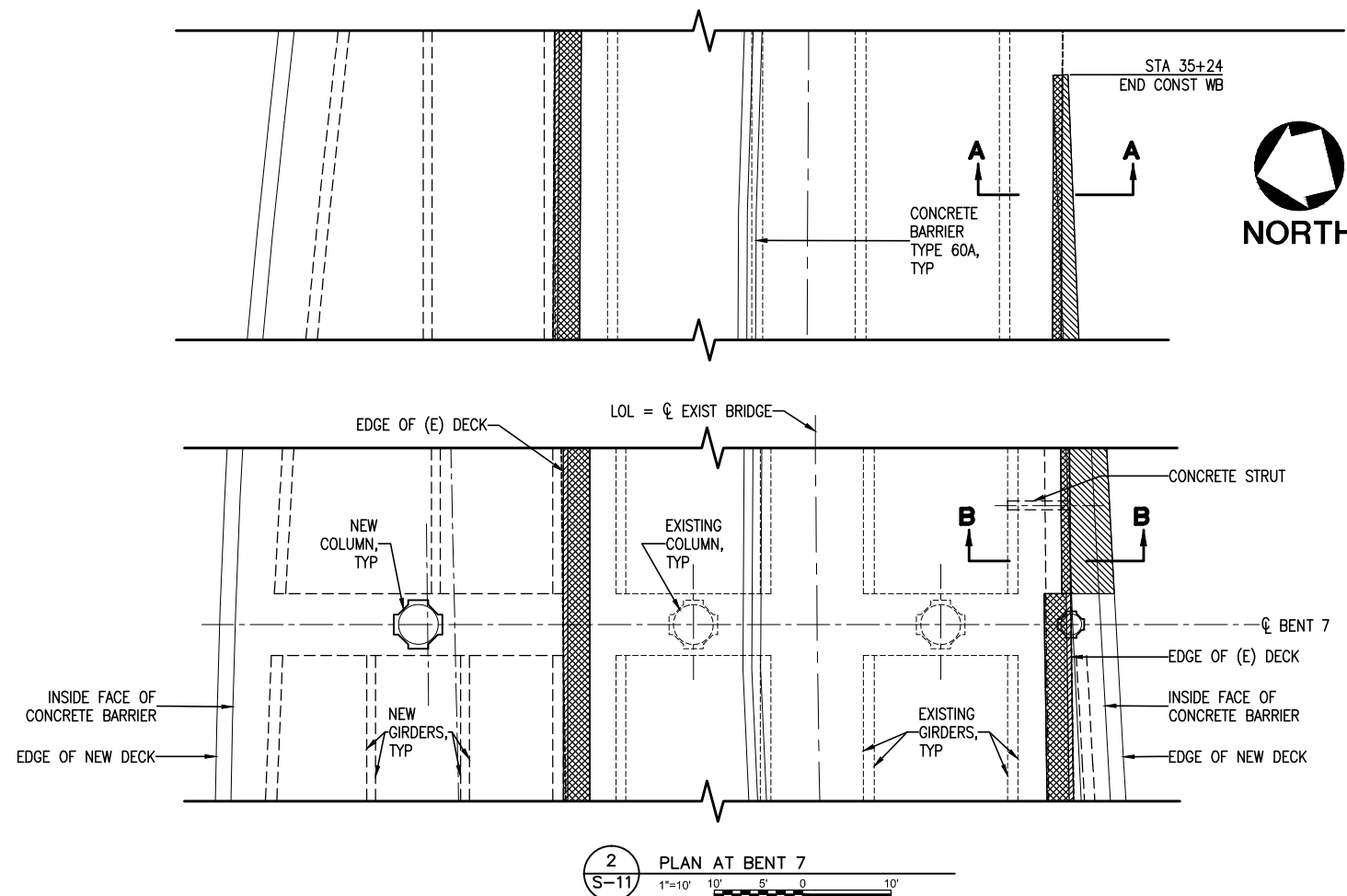
DESIGNED
D.SARETSKY
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R.CAMPBELL
DATE
4/7/2011

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970
BUSWAY BRIDGE BENT 6 LAYOUT

FILE/JOB NUMBER	C0970
SCALE	1" = 10'
DWG. NO.	S-10
SHEET	54 OF 80

Drawing Name: I:\Projects\4014653\4014653_0001\Drawings\STPA\S-10.dwg, Plotted: Apr 25, 2012 - 3:07pm by: partent



LEGEND:

- LIMITS OF BRIDGE REMOVAL
- CLOSURE POUR
- EXISTING MIN CLEARANCE
- CP = CLOSURE POUR

NOTES:

- * MEASURED PERPENDICULAR TO BENT
- ① REMOVE EXISTING BARRIER AND 3' OF DECK OVERHANG
- ② CONCRETE BARRIER TYPE 25 (MOD)
- ③ CONCRETE BARRIER TYPE 60A
- ④ 2-WAY FLARED COLUMN 5'-6" TO 7'-0" (SEE DETAIL 3/5-06)
- ⑤ REMOVE EXISTING CONCRETE BARRIER TYPE 50A(MOD)
- ⑥ EXISTING 6' DEEP CIP/RC BOX GIRDER
- ⑦ 6' DEEP CIP/PS BOX GIRDER
- ⑧ EXISTING CIDH PILE RETAINING WALL CONSIST OF 48"Ø CIDH PILES 4' ON CENTER WITH A 2' DEEP X 4' WIDE REINFORCED CONCRETE GRADE BEAM ALONG THE TOP. THE TOP OF THE GRADE BEAM IS ASSUMED TO BE APPROXIMATELY 5' BELOW EXISTING GRADE. THE CIDH PILES ARE APPROXIMATELY 45' DEEP. SEE REFERENCE DRAWINGS FOR ADDITIONAL INFORMATION.

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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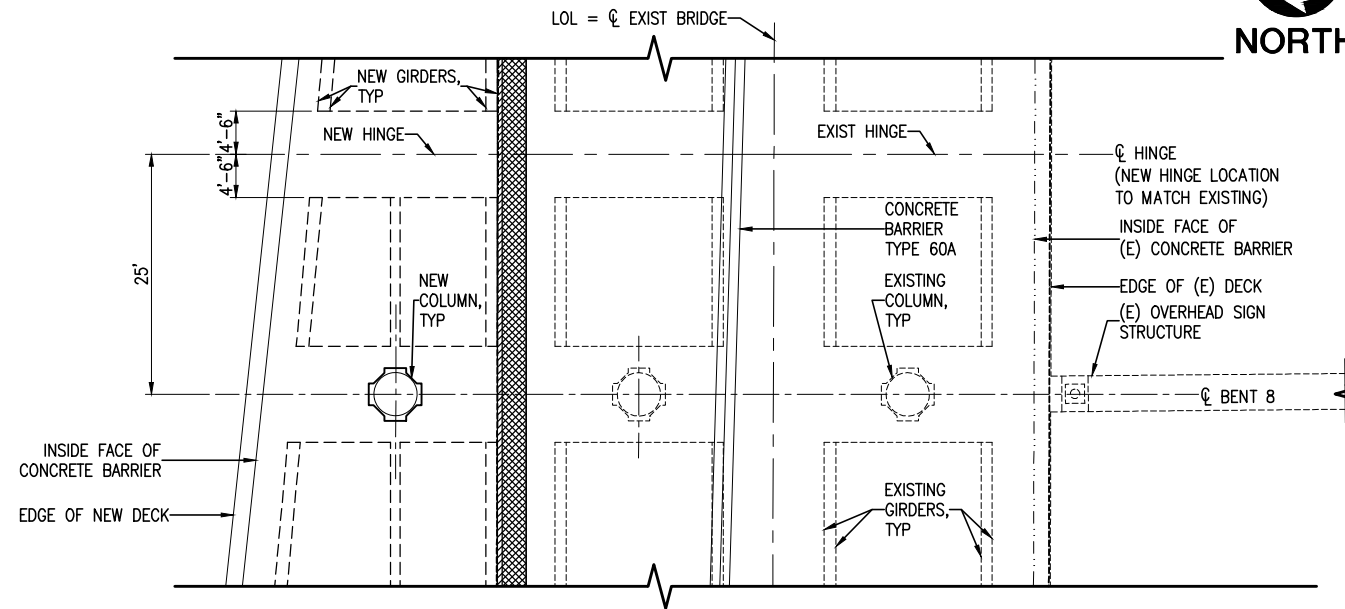
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

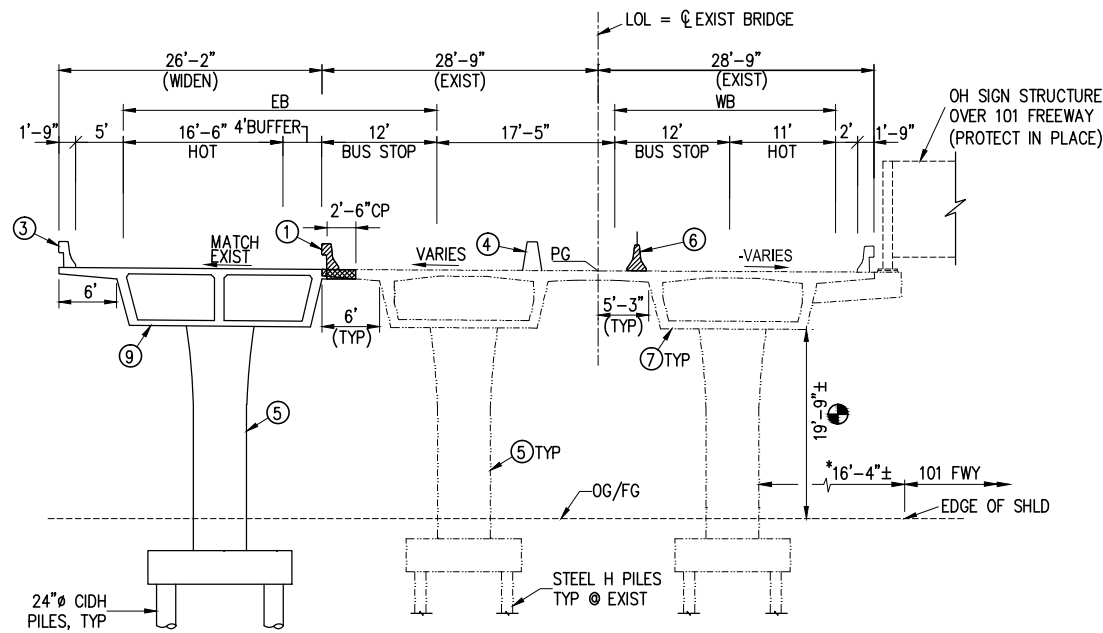
BUSWAY BRIDGE BENT 7 LAYOUT

FILE/JOB NUMBER	C0970
SCALE	1" = 10'
DWG. NO.	S-11
SHEET	55 OF 80

Drawing Name: I:\Projects\4014653_0001\Drawings\STA\S-11.dwg Plotter: Apr 25, 2012 - 3:07pm by: partemh



2 PLAN AT BENT 8
S-12 1"=10' 0 10'



1 ELEVATION AT BENT 8 (LOOKING EAST)
S-12 1"=10' 0 10'

LEGEND:

- LIMITS OF BRIDGE REMOVAL
- CLOSURE POUR
- EXISTING MIN CLEARANCE
- CP = CLOSURE POUR

NOTES:

- * MEASURED PERPENDICULAR TO BENT
- ① REMOVE EXISTING BARRIER AND 3' OF DECK OVERHANG
- ③ CONCRETE BARRIER TYPE 25 (MOD)
- ④ CONCRETE BARRIER TYPE 60A
- ⑤ 2-WAY FLARED COLUMN 5'-6" TO 7'-0" (SEE DETAIL)
- ⑥ REMOVE EXISTING CONCRETE BARRIER TYPE 50A(MOD)
- ⑦ EXISTING 6' DEEP CIP/RC BOX GIRDER
- ⑨ 6' DEEP CIP/PS BOX GIRDER

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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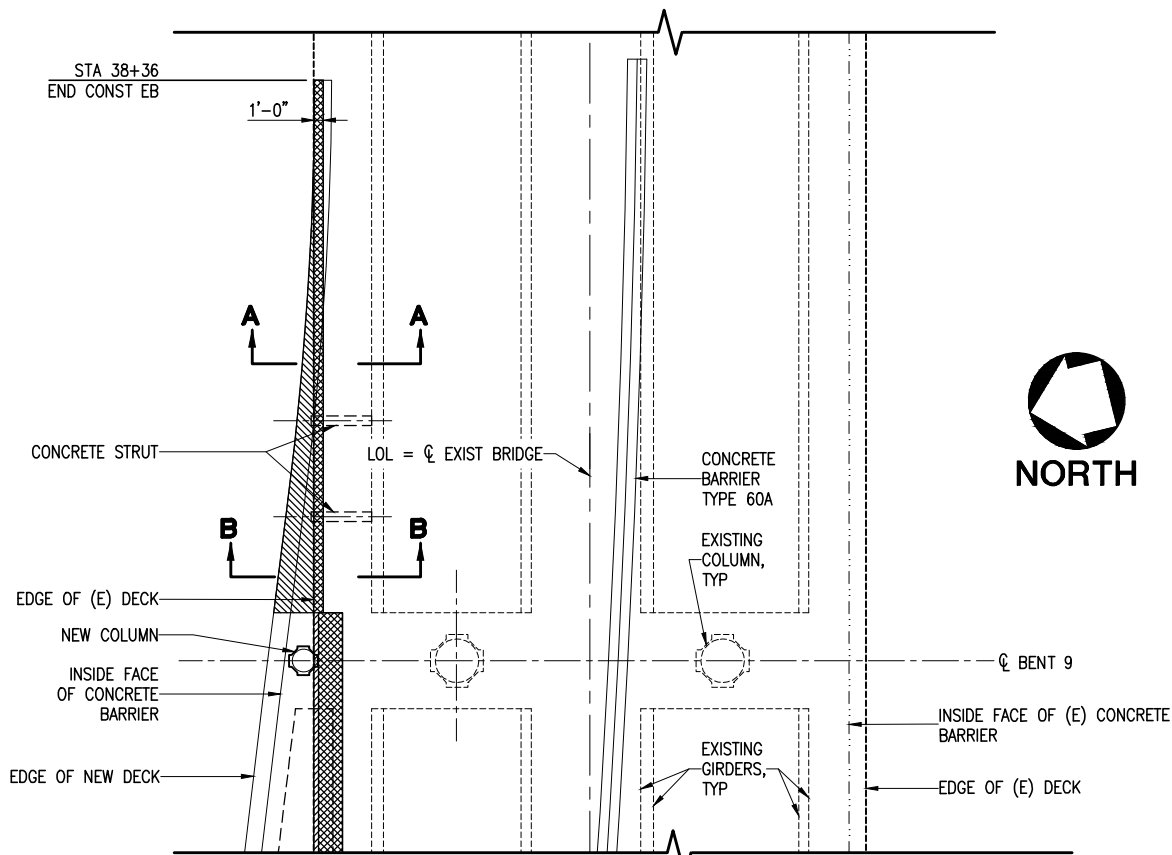
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DESIGN BUILD CONTRACT No. C0970

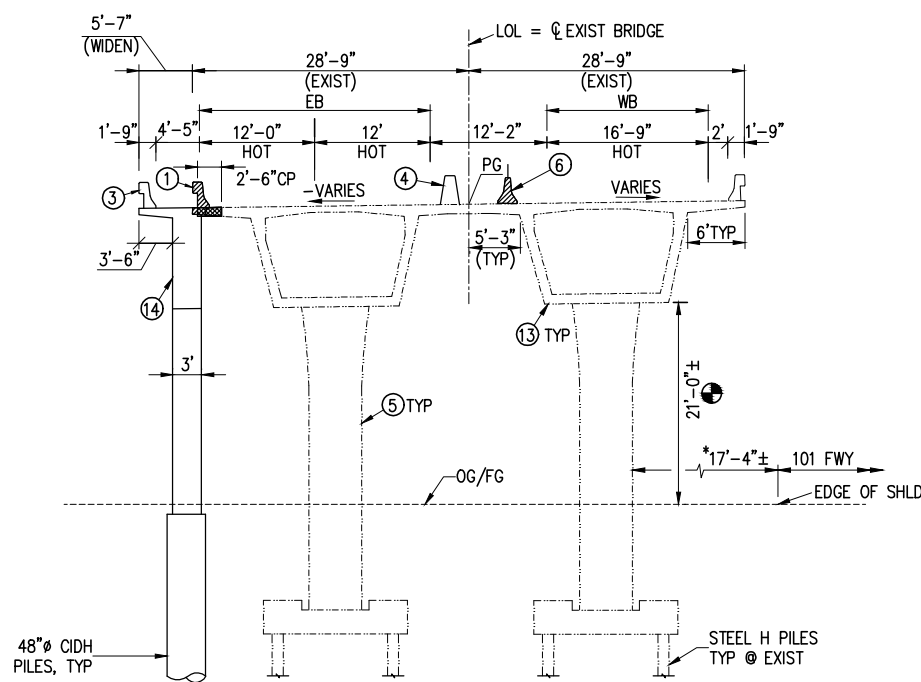
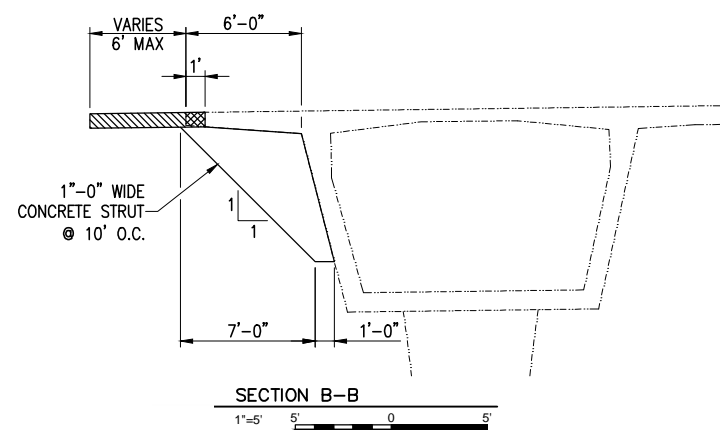
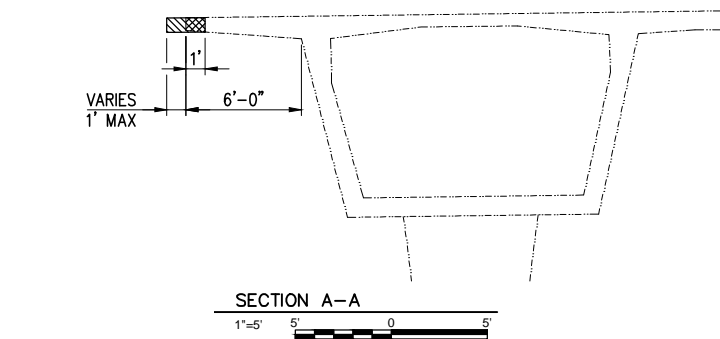
BUSWAY BRIDGE BENT 8 LAYOUT

FILE/JOB NUMBER	C0970
SCALE	1" = 10'
DWG. NO.	S-12
SHEET	56 OF 80

Drawing Name: I:\Projects\4014653_0001\Drawings\STV\S-12.dwg, Plotted: Apr 25, 2012 - 3:07pm by: partent



2 PLAN AT BENT 9
S-13 1"=10' 0' 5' 0' 10'



1 ELEVATION AT BENT 9 (LOOKING EAST)
S-13 1"=10' 0' 5' 0' 10'

- LEGEND:**
- LIMITS OF BRIDGE REMOVAL
 - CLOSURE POUR
 - EXISTING MIN CLEARANCE
 - CP = CLOSURE POUR
- NOTES:**
- * MEASURED PERPENDICULAR TO BENT
 - ① REMOVE EXISTING BARRIER AND 3' OF DECK OVERHANG
 - ③ CONCRETE BARRIER TYPE 25 (MOD)
 - ④ CONCRETE BARRIER TYPE 60A
 - ⑤ 2-WAY FLARED COLUMN 5'-6" TO 7'-0" (SEE DETAIL $\frac{3}{S-06}$)
 - ⑥ REMOVE EXISTING CONCRETE BARRIER TYPE 50A(MOD)
 - ⑬ EXISTING 10'-6" DEEP PARABOLIC HAUNCH CIP/RC BOX GIRDER
 - ⑭ 10'-6" DEEP PARABOLIC HAUNCH CIP/PS BOX GIRDER AT BENT CAP

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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CHECKED R.CAMPBELL
DATE 4/7/2011

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

BUSWAY BRIDGE BENT 9 LAYOUT

FILE/JOB NUMBER C0970
SCALE 1" = 10'
DWG. NO. S-13
SHEET 57 OF 80

Drawing Name: I:\Projects\4014653_0001\Drawings\STA\S-13.dwg Plotted: Apr 25, 2012 - 3:07pm by: partent

LEGEND OF BORING OPERATIONS

Top hole (E) 1" SOIL TUBE
 Blows per foot (L) 2"
 Date measured (M/D/Y)
 Location (Stationing)
 Name of contractor
 Name of engineer
 Name of geologist
 Name of sampler
 Name of operator
 Name of recorder
 Name of checker
 Name of approver

LEGEND OF EARTH MATERIALS

SILTY CLAY or CLAYEY SILT
 PEAT and/or ORGANIC MATERIAL
 FILL MATERIAL
 IGNEOUS ROCK
 SEDIMENTARY SANDY CLAY or CLAYEY SAND
 SANDY SILT or SILTY SAND
 SILTY SAND
 GRAVEL
 SAND
 SILT
 CLAY
 SANDY CLAY or CLAYEY SAND
 SANDY SILT or SILTY SAND
 SILTY SAND

CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test (Blows/Ft.)

Penetration (Blows/Ft.)	Consistency
0-5	Very Loose
5-10	Loose
10-20	Slightly compact
20-35	Compact
35-70	Dense
70	Very dense

UNIFIED SOIL CLASSIFICATION SYSTEM

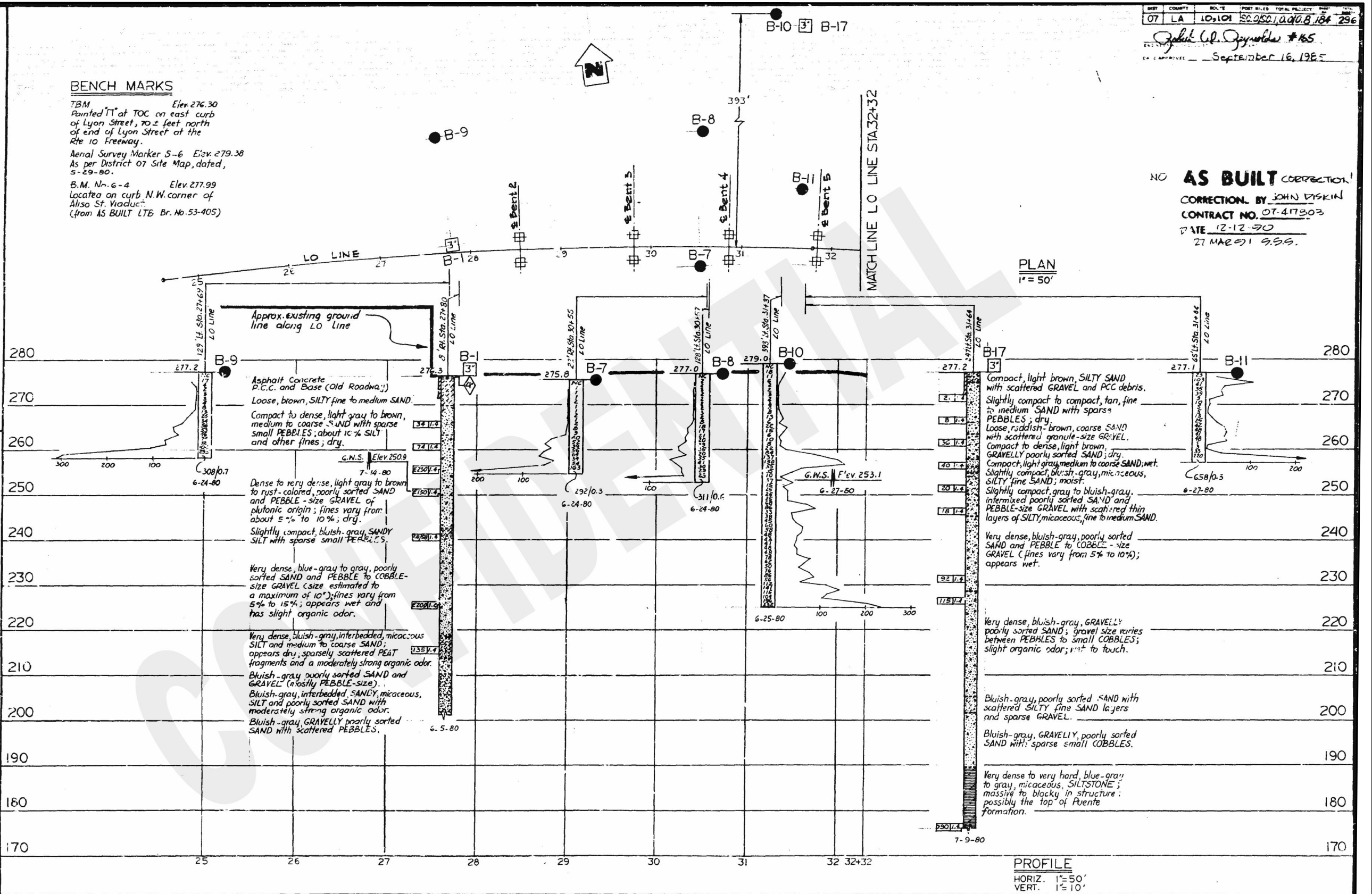
NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

BENCH MARKS

TBM Painted "T" at TOC on east curb of Lyon Street, 70± feet north of end of Lyon Street at the Rte 10 Freeway. Elev. 276.30

Aerial Survey Marker S-6 Elev. 279.38
 As per District 07 Site Map, dated, 5-29-80.

B.M. No. 6-4 Elev. 277.99
 Located on curb N.W. corner of Alisa St. Viaduct.
 (from AS BUILT LTB Br. No. 53-405)



NO AS BUILT CORRECTION!
 CORRECTION BY JOHN DISKIN
 CONTRACT NO. 07-47303
 DATE 12-12-90
 27 MAR 91 G.S.S.

ENGINEERING GEOLOGY AND TECHNICAL SERVICES BRANCH - TRANSPORTATION LABORATORY

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

STRUCTURES - DESIGN 10

BRIDGE NO. 93-2673
 POST MILE

LOS ANGELES RIVER BUSWAY BRIDGE & OVERHEAD

LOG OF TEST BORINGS NO. 1

DRAWN BY: VICTOR SESTOKAS, 8-1-80
 CHECKED BY: D. B. Crawford, 9-17-80

CHARGE UNIT: 07218
 EXPEND. AUTHOR: 417801
 SPEC. DESIGN: 4532673

PROJECT ENGINEER: Don Fukushima, 16075
 REGISTERED CIVIL ENGINEER NO. 16075

REV.	DATE	BY	APP.	DESCRIPTION
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 STV Incorporated
 1055 West 7th Street, Suite 3150
 Los Angeles, CA 90017
 www.stvinc.com

DESIGNED BY: D. SARETSKY
 DRAWN BY: M. PARTENHEIMER
 CHECKED BY: R. CAMPBELL
 DATE: 4/16/2012

Metro
 LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

BUSWAY BRIDGE AS-BUILTS LOT B NO. 1

FILE/JOB NUMBER: C0970
 SCALE: AS NOTED
 DWG. NO.: S-14
 SHEET: 58 OF 80

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

LEGEND OF BORING OPERATIONS

Top Hole (1) [Symbol] 12.5'
 Borehole (1) [Symbol] 12.5'
 Casing (1) [Symbol] 12.5'
 Size of sampler (1) [Symbol] 12.5'
 Direction of material (1) [Symbol] 12.5'
 Direction of material (1) [Symbol] 12.5'
 Direction of material (1) [Symbol] 12.5'
 Direction of material (1) [Symbol] 12.5'
 Direction of material (1) [Symbol] 12.5'
 Direction of material (1) [Symbol] 12.5'
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 Direction of material (1) [Symbol] 12.5'
 Direction of material (1) [Symbol] 12.5'
 Direction of material (1) [Symbol] 12.5'
 Direction of material (1) [Symbol] 12.5'

LEGEND OF EARTH MATERIALS

CLAY SILT [Symbol]
 SILTY CLAY [Symbol]
 CLAYEY SILT [Symbol]
 SILTY SAND [Symbol]
 SANDY SILT [Symbol]
 SANDY CLAY [Symbol]
 CLAYEY SAND [Symbol]
 SILTY SAND [Symbol]
 SANDY SILT [Symbol]
 SANDY CLAY [Symbol]
 CLAYEY SAND [Symbol]
 SILTY SAND [Symbol]

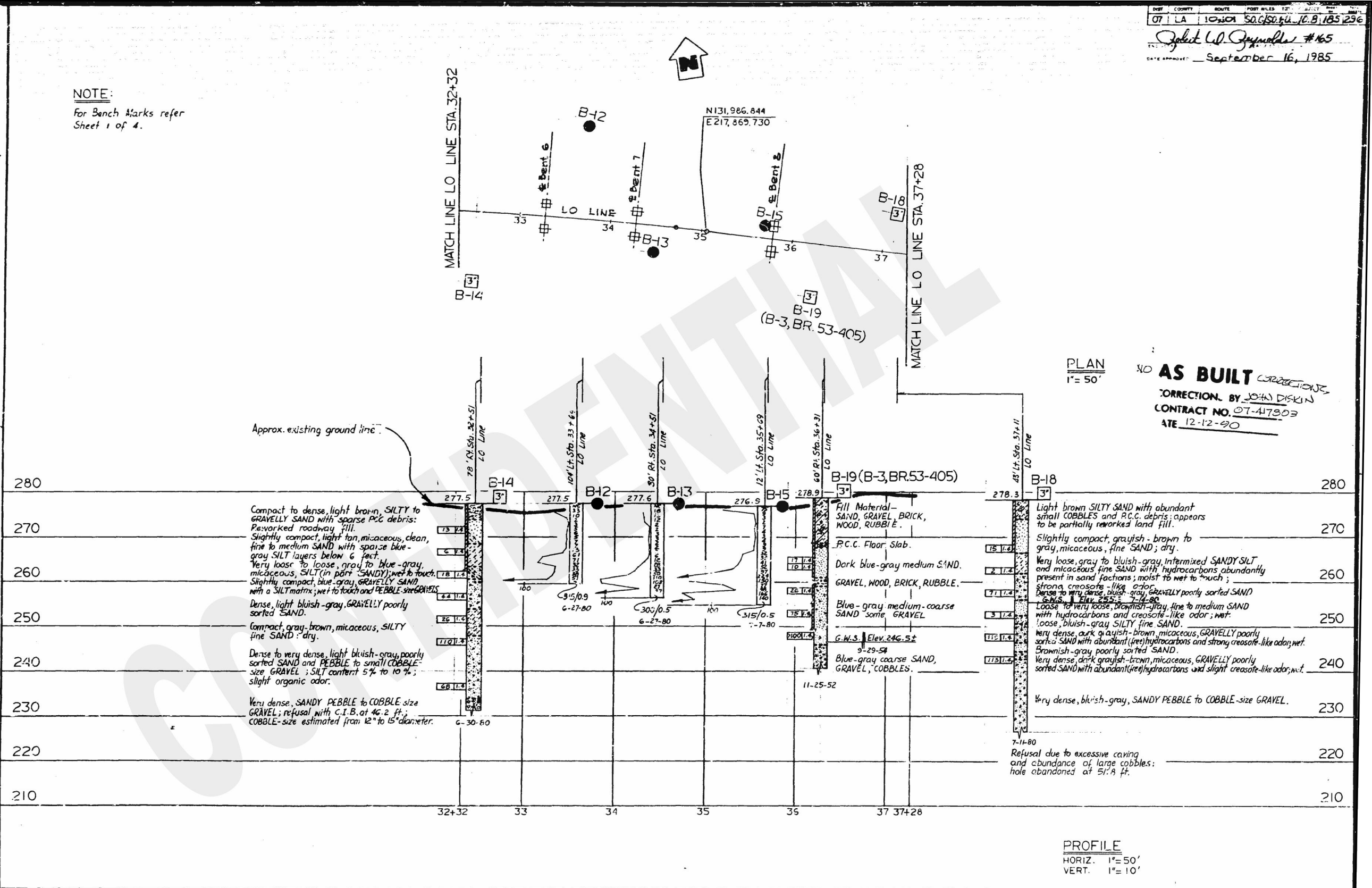
CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test (SPT) blow count (N₆₀)

Penetration Index (N ₆₀)	Consistency
0-5	Very loose
5-10	Loose
10-20	Medium
20-30	Stiff
30-50	Very stiff
50-70	Hard
70	Very hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

NOTE:
 for Bench Marks refer
 Sheet 1 of 4.



ENGINEERING GEOLOGY AND TECHNICAL SERVICES BRANCH - TRANSPORTATION LABORATORY

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

STRUCTURES - DESIGN 10

BRIDGE NO. 53-2673

LOS ANGELES RIVER BUSWAY BRIDGE & OVERHEAD

LOG OF TEST BORINGS NO. 2

POST MILE

DESIGNED BY: D. SARETSKY
 DRAWN BY: M. PARTENHEIMER
 CHECKED BY: R. CAMPBELL
 DATE: 4/16/2012

CHARGE UNIT: 07218
 EXPEND AUTH: 417801
 SPEC. DESIGN: 4532673

PROJECT ENGINEER: DON FULCHER
 REGISTERED CIVIL ENGINEER NO. 16715

DRAWN BY: VIKTOR SESTOKAS, B-8-80
 CHECKED BY: D. B. Cranford 9-17-80

APPROVED BY: A. K. Champion 3-8
 ENGINEERING GEOLOGIST: CED NO. 07218

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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 Los Angeles, CA 90017

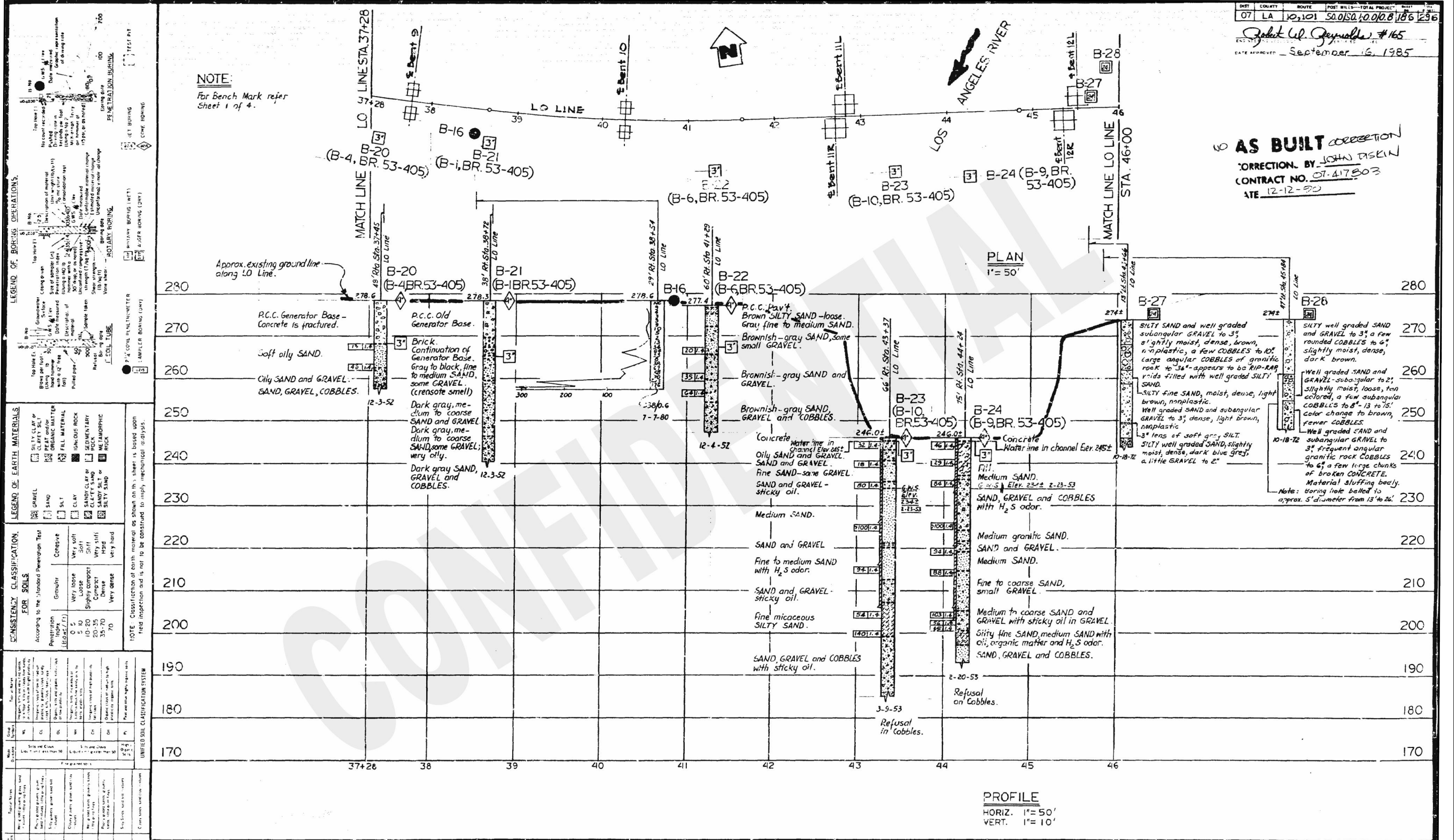
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

BUSWAY BRIDGE AS-BUILT LOT B NO. 2

FILE/JOB NUMBER: C0970
 SCALE: AS NOTED
 DWG. NO.: S-15
 SHEET: 59 OF 80

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				ISSUED FOR BID
10/15/10				ADVANCED CONCEPTUAL ENGINEERING



ENGINEERING GEOLOGY AND TECHNICAL SERVICES BRANCH - TRANSPORTATION LABORATORY

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

STRUCTURES - DESIGN 10

BRIDGE NO. 53-2673

LOS ANGELES RIVER BUSWAY BRIDGE & OVERHEAD

LOG OF TEST BORINGS NO. 3

PROJECT ENGINEER: Don Fukushima

DESIGNED BY: VICTOR SESTOKAS, 8-15-80

CHECKED BY: D.B. CR... 9-18-80

CHARGE UNIT: 07218

EXPEND AMOUNT: 417801

SPEC. DESIGN: 4532673

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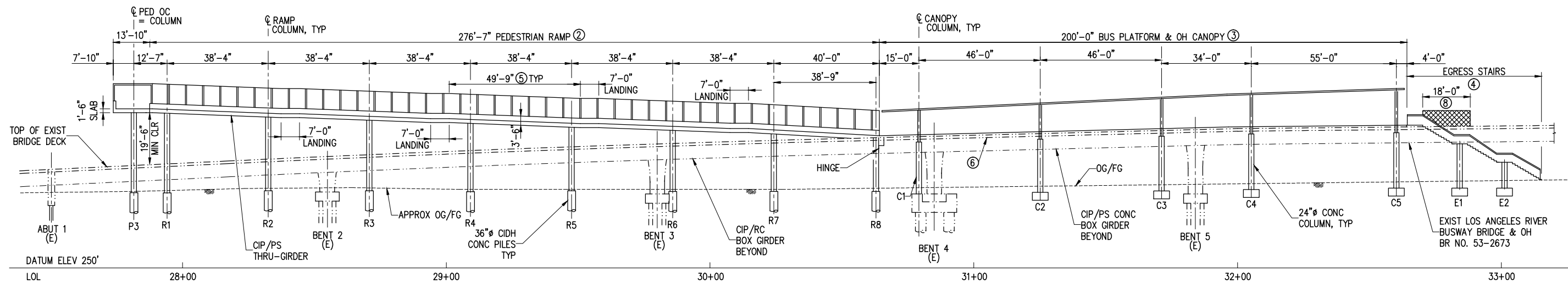
DESIGNED BY: D.SARETSKY
 DRAWN BY: M.PARTENHEIMER
 CHECKED BY: R.CAMPBELL
 DATE: 4/16/2012

Metro
 LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

BUSWAY BRIDGE AS-BUILTS LOT B NO. 3

FILE/JOB NUMBER: C0970
 SCALE: AS NOTED
 DWG. NO.: S-16
 SHEET: 60 OF 80



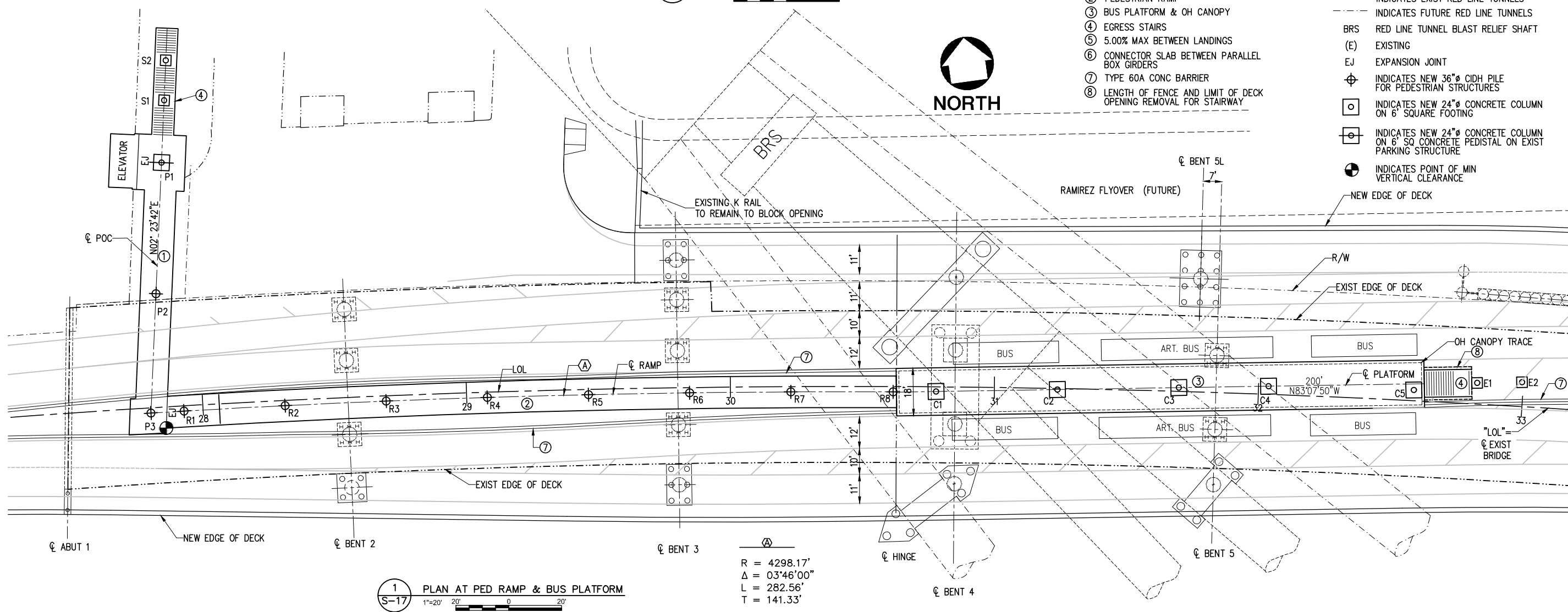
2 ELEVATION AT PED RAMP & BUS PLATFORM
 1"=20' 20' 0' 20'

NOTES:

- ① PEDESTRIAN OVERCROSSING
- ② PEDESTRIAN RAMP
- ③ BUS PLATFORM & OH CANOPY
- ④ EGRESS STAIRS
- ⑤ 5.00% MAX BETWEEN LANDINGS
- ⑥ CONNECTOR SLAB BETWEEN PARALLEL BOX GIRDERS
- ⑦ TYPE 60A CONC BARRIER
- ⑧ LENGTH OF FENCE AND LIMIT OF DECK OPENING REMOVAL FOR STAIRWAY

LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES NEW STRUCTURE
- INDICATES EXIST RED LINE TUNNELS
- INDICATES FUTURE RED LINE TUNNELS
- BRS RED LINE TUNNEL BLAST RELIEF SHAFT
- (E) EXISTING
- EJ EXPANSION JOINT
- ⊕ INDICATES NEW 36"Ø CIDH PILE FOR PEDESTRIAN STRUCTURES
- ⊙ INDICATES NEW 24"Ø CONCRETE COLUMN ON 6' SQUARE FOOTING
- ⊙ INDICATES NEW 24"Ø CONCRETE COLUMN ON 6' SQ CONCRETE PEDISTAL ON EXIST PARKING STRUCTURE
- INDICATES POINT OF MIN VERTICAL CLEARANCE



1 PLAN AT PED RAMP & BUS PLATFORM
 1"=20' 20' 0' 20'

$R = 4298.17'$
 $\Delta = 03'46''00''$
 $L = 282.56'$
 $T = 141.33'$

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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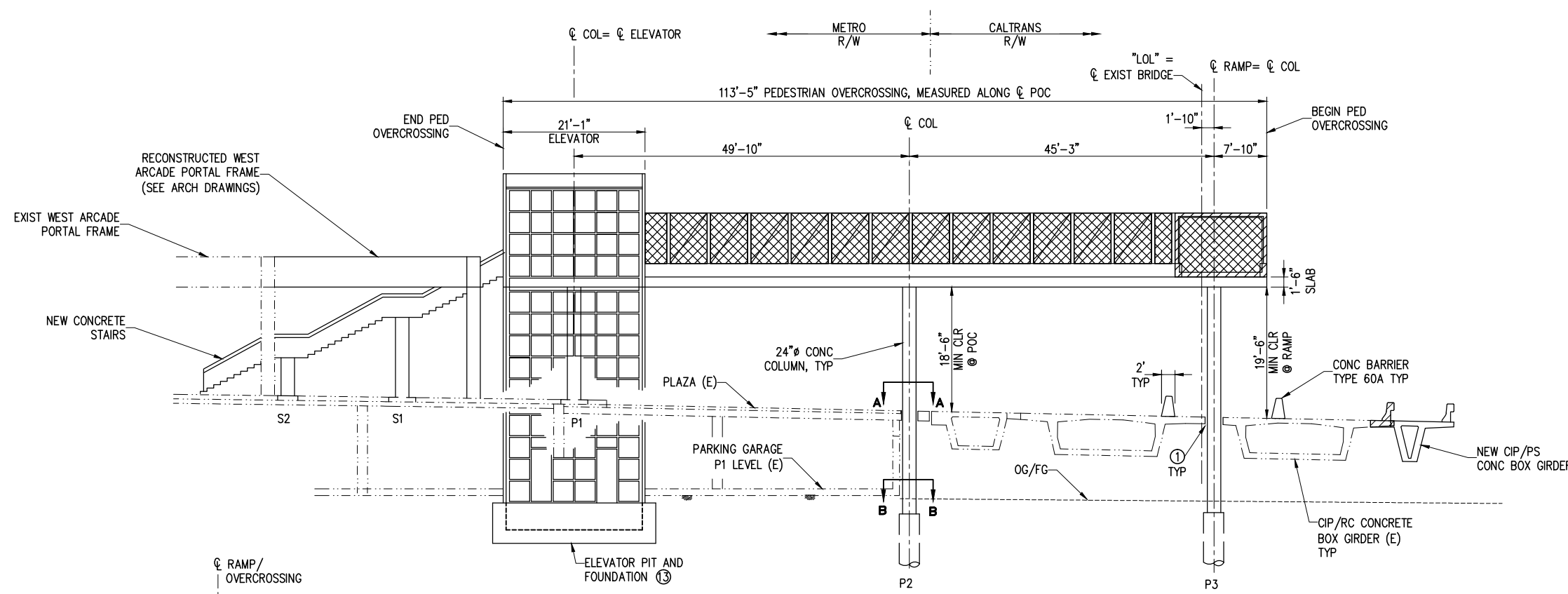
DESIGNED
D.SARETSKY
 DRAWN BY
R.LIN
 CHECKED
R.CAMPBELL
 DATE
4/8/2011

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

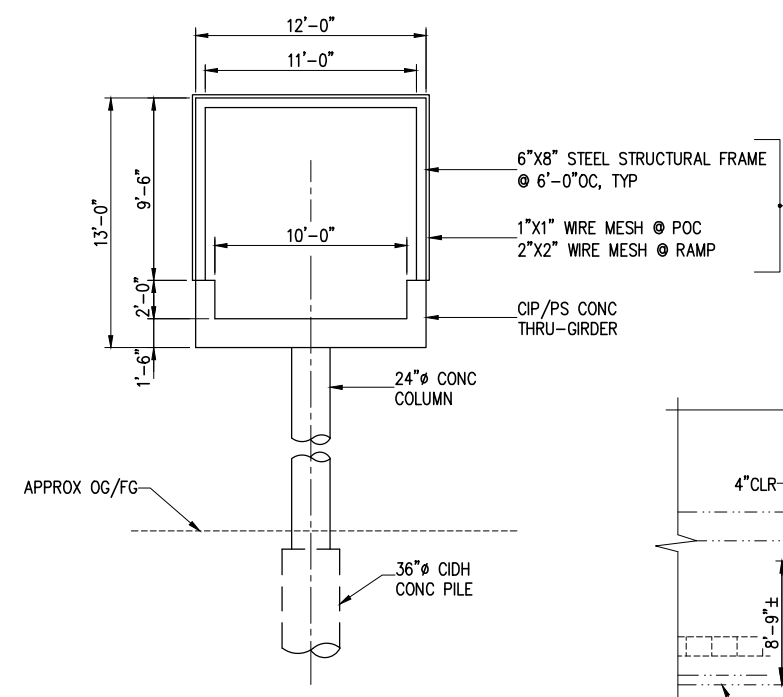
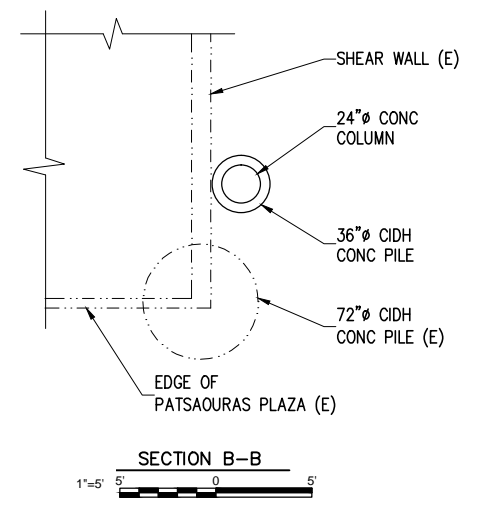
UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970
**PEDESTRIAN OVERCROSSING,
 RAMP AND BUS PLATFORM
 GENERAL PLAN**

FILE/JOB NUMBER	C0970
SCALE	1" = 20'
DWG. NO.	S-17
SHEET	61 OF 80

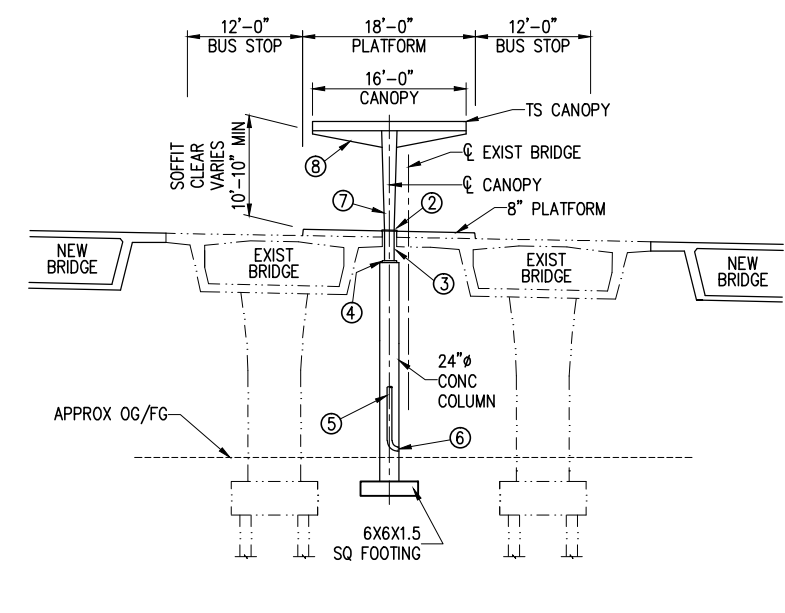
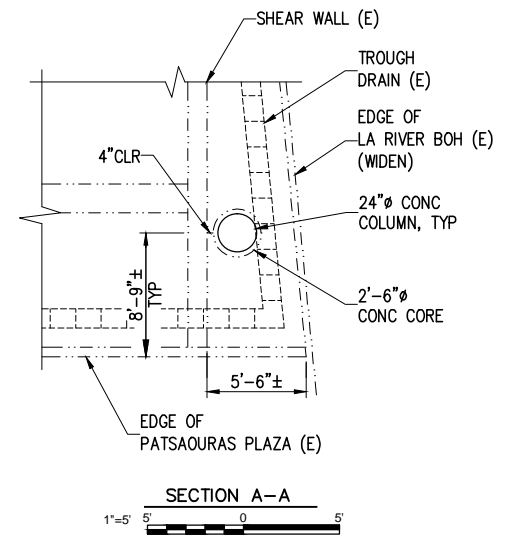
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1 ELEVATION AT PED OVERCROSSING (LOOKING EAST)
S-18 1"=10' 10' 5' 0' 10'



3 TYPICAL SECTION AT RAMP & OVERCROSSING
S-18 1"=5' 5' 0' 5'



2 TYPICAL SECTION AT PLATFORM CANOPY
S-18 1"=10' 10' 5' 0' 10'

FOR ADDITIONAL CANOPY DETAILS SEE ARCH DRAWINGS

- NOTES:
- ① 2'-6" ϕ CONCRETE CORE
 - ② COLLAR FLANGE (TO COVER 3" GAP)
 - ③ 18" ϕ CORE (3" \pm CLR FOR Δ SEISMIC)
 - ④ BASE PLATE & ABS
 - ⑤ DRAIN PIPE IN COLUMN
 - ⑥ DRAIN OUTLET
 - ⑦ TAPERED STEEL BOX SECTION. SEE 2/A-12 FOR DIMENSIONS.
 - ⑧ TAPERED STEEL BEAM. SEE 2/A-12 FOR DIMENSIONS.
 - ⑬ CONTRACTOR TO SIZE BASED ON ELEVATOR MANUFACTURER SPECIFICATIONS.

- LEGEND:
- LIMITS OF BRIDGE REMOVAL
 - (E) EXISTING
 - TS TUBULAR STEEL (PAINTED)

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

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DESIGNED D.SARETSKY
DRAWN BY R.LIN
CHECKED R.CAMPBELL
DATE 10/15/2010

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION DESIGN BUILD CONTRACT No. C0970	FILE/JOB NUMBER C0970
PEDESTRIAN OVERCROSSING, RAMP AND BUS PLATFORM ELEVATION AND TYPICAL SECTIONS	SCALE AS NOTED
	DWG. NO. S-18
	SHEET 62 OF 80

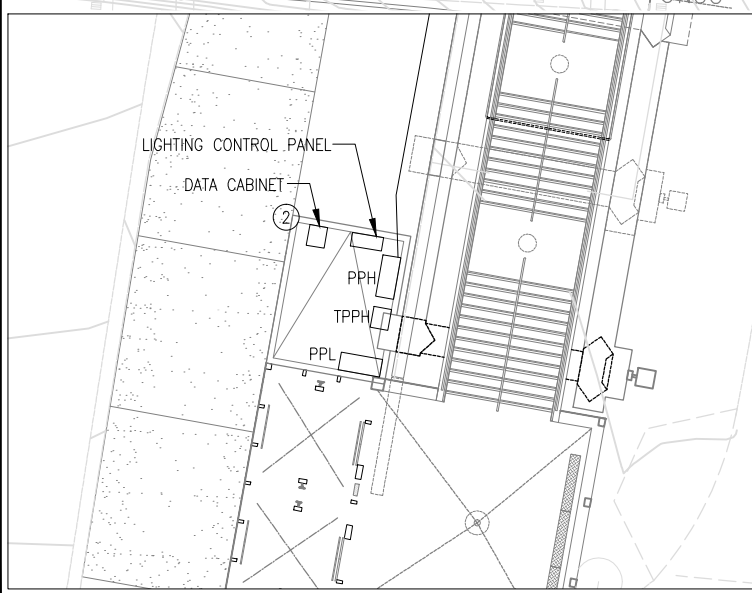
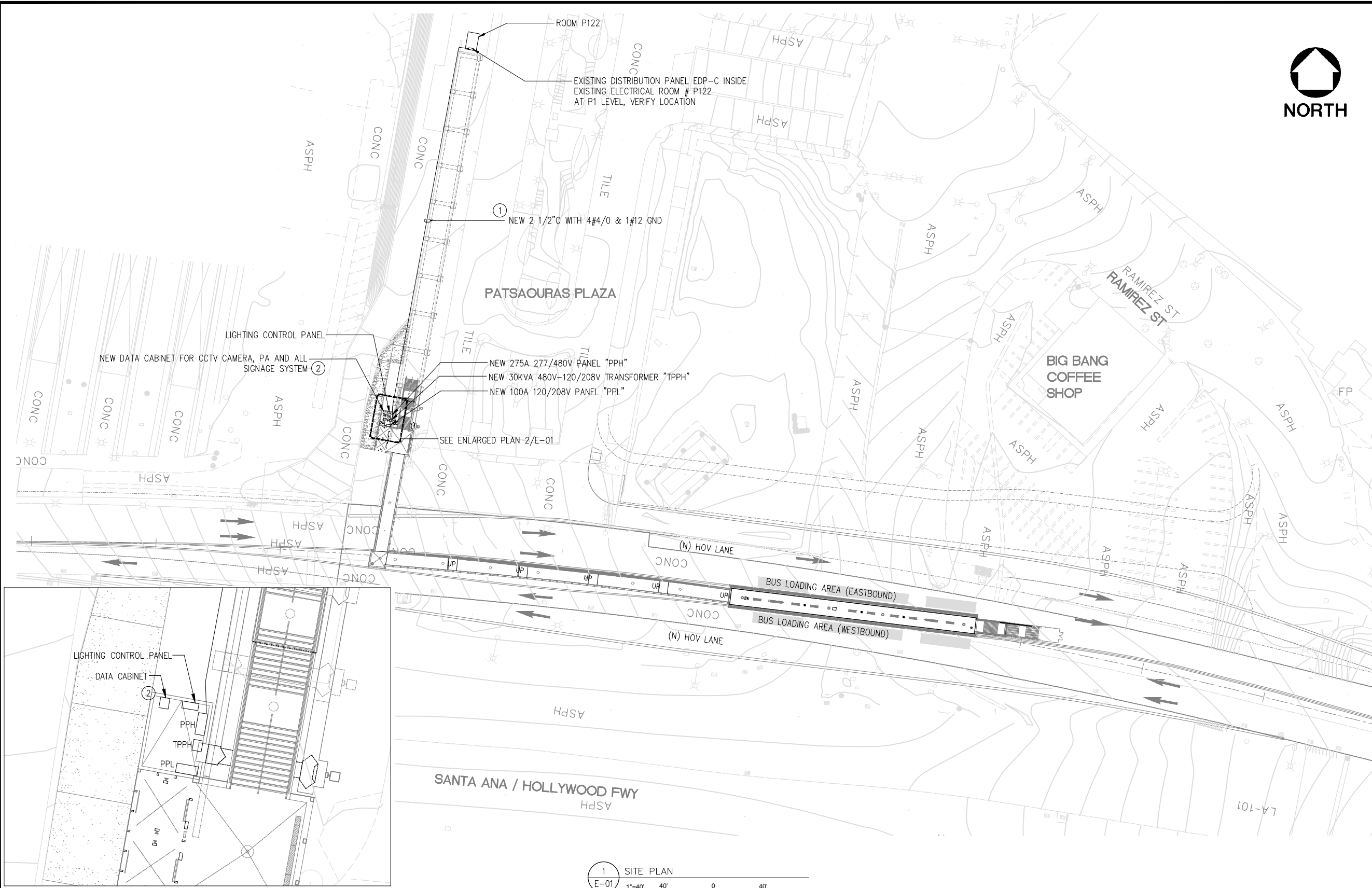
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ABBREVIATIONS	LIGHT SYMBOLS	POWER SYMBOLS	GENERAL NOTES
<p>A, AMP AMPERE A.F.F. ABOVE FINISHED FLOOR AF AMPERE FRAME AIC AMPERE INTERRUPTING CAPACITY AMD AUTOMATIC MOTORIZED DAMPER AT AMPERE TRIP AUX. AUXILIARY BKR BREAKER C CONDUIT CKT CIRCUIT COMM. COMMUNICATION CL CENTER LINE C.O. CONDUIT ONLY CD COMPUTER DATA D DEDICATED CIRCUIT DEPT. DEPARTMENT DWG. DRAWING (E) EXISTING TO REMAIN EMH ELECTRICAL MAN HOLE EO ELECTRICAL OPERATED FBO FURNISHED BY OTHERS FDR FEEDER FS FLOW SWITCH GFP, GFIC GROUND FAULT PROTECTION GND GROUND, GROUNDING GRSC GALVANIZED RIGID STEEL CONDUIT HH HANDHOLE HP HORSEPOWER HV HIGH VOLTAGE HZ HERTZ IDT INTERMEDIATE DISTRIBUTION TERMINAL IMC INTERMEDIATE METAL CONDUIT INV INVERTER ISC INTERRUPT SHORT-CIRCUIT CURRENT KVA KILOVOLT AMPERE LTS LIGHTS LV LOW VOLTAGE MCC MOTOR CONTROL CENTER MDB MAIN DISTRIBUTION BOARD MDF MAIN DISTRIBUTION TERMINAL MH MANHOLE MTG MOUNTING MV MEDIUM VOLTAGE (N) NEW PA PUBLIC ADDRESS PB PULLBOX PNL PANEL PP POWER PANEL PVC POLYVINYL CHLORIDE PWR POWER REC RECEPTACLE RM ROOM RPS REMOTE POWER SUPPLY SAV STAND ALONE VALIDATORS SDB SUB-DISTRIBUTION BOARD SLP SITE LIGHTING PANEL SW SWITCH SWDB. SWITCHBOARD SWGR SWITCHGEAR T TELEPHONE TCC TRAIN CONTROL/COMMUNICATION TVM TICKET VENDING MACHINE TYP. TYPICAL UG UNDERGROUND UNO UNLESS NOTED OTHERWISE V VOLT WP WEATHERPROOF XFMR TRANSFORMER</p>	<p>LIGHT SYMBOLS</p> <p> LIGHTING FIXTURE PER FIXTURE SCHEDULE</p> <p> LIGHTING FIXTURE PER FIXTURE SCHEDULE</p> <p> TOGGLE SWITCH 120/277V 20A SINGLE POLE SINGLE THROW UNO ob = SWITCHING 3 = 3-WAY P = PILOT LIGHT D = DIMMER; M = FAN SWITCH;</p> <p> PHOTOCCELL LIGHT CONTROL SWITCH</p> <p> LIGHTING FIXTURE DESIGNATION, SEE LIGHTING FIXTURE SCHEDULE LETTER INDICATES FIXTURE TYPE PER FIXTURE SCHEDULE NUMBER INDICATES TOTAL INPUT WATTS PER FIXTURE</p> <p> EXIT LIGHT PER FIXTURE SCHEDULE/SPECIFICATION, CEILING MOUNTED</p> <p>SINGLE LINE DIAGRAM SYMBOLS</p> <p> 200A CIRCUIT BREAKER, MEDIUM VOLTAGE "A" -TRIP AMPS</p> <p> 1200AS DISCONNECT SWITCH, FUSIBLE UNLESS INDICATED OTHERWISE. "AS" -SWITCH AMPS 1000AF "AF" -FUSE AMPS 3P</p> <p> 1200AF CIRCUIT BREAKER, "AF" -FRAME AMPS "AT" -TRIP AMPS 1000AT 3P</p> <p> 100AF OVERCURRENT PROTECTION FUSES "AF" -FUSE AMPS "RK1" -FUSE TYPE RK1</p> <p> 100AS FUSED DISCONNECT SWITCH, "AS" -SWITCH AMPS "AF" -FUSE AMPS 70AF 3P</p> <p> 100AS NON-FUSED DISCONNECT SWITCH, "AS" -SWITCH AMPS 3P</p> <p> 100A CIRCUIT BREAKER IN ENCLOSURE NEMA 1 UNO 3P</p> <p> POWER TRANSFORMER RATINGS AS NOTED</p> <p> CONDUIT GOING DOWN</p> <p> CONDUIT GOING UP</p>	<p>POWER SYMBOLS</p> <p> JUNCTION BOX</p> <p> TRANSFORMER BOX AS INDICATED ON PLAN</p> <p> RECEPTACLE DUPLEX 3-WIRE GROUNDING TYPE, 15 AMP, 120VAC FLUSH WALL MOUNTED AT 12" AFF UNO</p> <p> RECEPTACLE QUAD 3-WIRE GROUNDING TYPE, 15 AMP, 120VAC FLUSH WALL MOUNTED AT 12" AFF UNO (D FOR DEDICATED CIRCUIT)</p> <p> LIGHTING PANELS SURFACE AND FLUSH MOUNTED</p> <p> POWER PANELS SURFACE AND FLUSH MOUNTED</p> <p> EMBEDDED, CONCEALED, OR UNDERGROUND CONDUIT LP-2,4,6 CONDUIT AND WIRE HOMERUN TO PANEL & CIRCUITS NOTED CONDUIT EXPOSED OR IN CEILING SPACE</p> <p> 3#12, 3/4"C 6#12, 1"C 3#12, 3/4"C 7#12, 1"C 4#12, 3/4"C 8#12, 1"C 5#12, 3/4"C 9#12, 1"C</p> <p>#10 OR OTHER AWG ADJACENT TO HASHMARKS INDICATES A WIRE SIZE OTHER THAN #12AWG SEE NEC FOR MINIMUM CONDUIT SIZES, TABLE 310-16</p> <p> FEEDER NAME</p> <p> POWER EQUIPMENT NAME</p> <p>COMMUNICATION SYMBOLS</p> <p> SECURITY CAMERA (PTZ)</p> <p> SECURITY CAMERA</p> <p> PUBLIC ADDRESS SYSTEM SPEAKER WALL MOUNTED</p> <p> PA SPEAKER PER SPECIFICATION, SURFACE MOUNTED</p> <p> VOICE SYSTEM CONDUIT RUN. 3/4"C FOR 1-8, 4 PAIRS UTP CAT 5E CABLE</p> <p> VOICE SYSTEM CONDUIT RUN. 1"C FOR 9-16, 4 PAIRS UTP CAT 5E CABLE</p> <p> 3/4"C.O. FOR PUBLIC ADDRESS SYSTEM</p>	<p>GENERAL NOTES</p> <ol style="list-style-type: none"> DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY ADDITIONAL REQUIREMENTS & COORDINATION. CUT STEEL CONDUIT ENDS SQUARE, REAM SMOOTH, PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE BASE PIPE COMPOUNDS DRAW UP WRENCH TIGHT WITH CONDUIT COUPLINGS. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. PROVIDE PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES. FOR EMPTY RACEWAY RUNS PROVIDE PULL BOXES EVERY 100 FEET AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES. SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY FROM STRUCTURE WITH NO WEIGHT BEARING ON CONDUITS. SUPPLEMENTARY JUNCTION & PULL BOXES IN ADDITION TO JUNCTION & PULL BOXES INDICATED ON THE CONTRACT DWGS. AND REQUIRED BY APPLICABLE CODES, PROVIDE SUPPLEMENTARY JUNCTION & PULL BOXES AS FOLLOWS: WHEN REQUIRED TO FACILITATE INSTALLATION OF WIRING. AT EVERY THIRD 90° TURN. AT INTERVALS NOT EXCEEDING 100 FEET FOR RACEWAY SIZES OVER 1 INCH. ALL RECEPTACLES INDICATED "GFI" SHALL BE GROUND FAULT INTERRUPTION TYPE. ATTACHMENT OF CONDUITS SHALL BE PER CEC. ALL SYMBOLS ARE STANDARD SYMBOLS AND NOT SHOWN ALL ON THE PLAN. TYPICAL FOR ALL SHEETS. ALL ELECTRICAL MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITERS LABORATORY (UL) AND BEAR ITS LABEL. MATERIAL, EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE FOLLOWING: AMERICAN SOCIETY OF TESTING MATERIAL (ASTM INTERNATIONAL) INSULATED CABLE ENGINEERS ASSOCIATION (ICEA) NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION (NEMA) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR) CALIFORNIA ELECTRICAL CODE (CEC) INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) STATE AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION. USE EXTREME CAUTION DURING EXCAVATION TO PREVENT DAMAGE TO EXISTING UNDERGROUND UTILITIES. PROVIDE METHOD TO DETERMINE EXISTING UNDERGROUND UTILITIES. CALL DIG ALERT OR SIMILAR BEFORE STARTING ANY DIGGING OR TRENCHING. UNDERGROUND SERVICE ALERT 800-227-2600 (OR) CALL 811 CONDUIT SHALL BE CONCEALED WHERE REQUIRED. CONDUIT ROUTING INSIDE THE STATION MAY REQUIRE TEMPORARY REMOVAL OF ARCHITECTURAL CEILING OR WALL PANELS TO RUN CONDUIT TO TCC ROOM OR TO ELECTRICAL PANELS IN THE AUXILIARY OR ELECTRICAL ROOM. PULL BOXES MUST BE PROVIDED IN ACCESSIBLE SPACE BETWEEN CONDUIT RUNS. AFTER INSTALLATION OF CONDUIT IS COMPLETED, ALL CEILING AND WALL PANELS MUST BE REINSTALLED BACK TO IT ORIGINAL CONDITION. SURFACE MOUNT CONDUITS ON DECORATIVE SURFACE OR ON INTERIOR WALL AND ARCHITECTURAL CEILING PANELS ARE NOT ACCEPTABLE. CONCRETE WALL OR FLOOR PENETRATION MAY BE REQUIRED. PROVIDE NECESSARY NOTES ON WALL AND CEILING PENETRATION INCLUDING ACCEPTANCE AND APPROVAL BY STRUCTURAL ENGINEER OF RECORD. FIRESTOPPING MATERIAL IS REQUIRED TO SEAL ALL OPENINGS. CONDUIT RUN SHALL BE PARALLEL AND INSTALLED IN NEAT AND WORKMANLIKE FASHION.
NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE			



NOTES:

- ① CONDUIT ROUTING SHALL BE FIELD VERIFIED TO INSTALLATION.
- ② PROVIDE NECESSARY MODULES, CONDUITS AND WIRING CONNECTION TO EXISTING SECURITY, PA AND SIGNAGE SYSTEM. PROVIDE MINIMUM 2" CO WITH PULL CORD TO ELECTRICAL ROOM P251 FOR LOW VOLTAGE SYSTEM CABLES. COORDINATE WITH METRO PRIOR TO INSTALLATION FOR DETAILS AND ROUTING REQUIREMENT.



① SITE PLAN
E-01
1"=40' 40' 0 40'

② ENLARGED PLAN
E-01
SCALE: 1/8" = 1'

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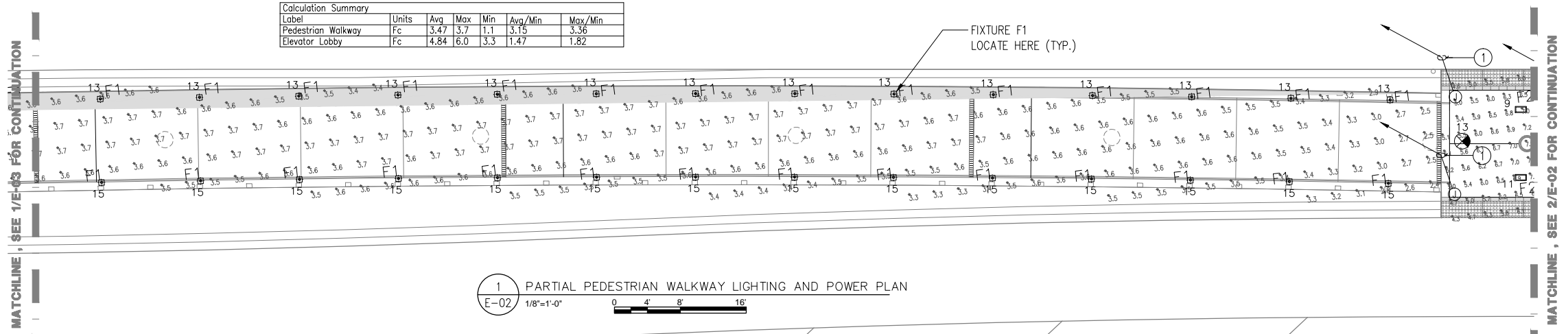
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

SITE PLAN

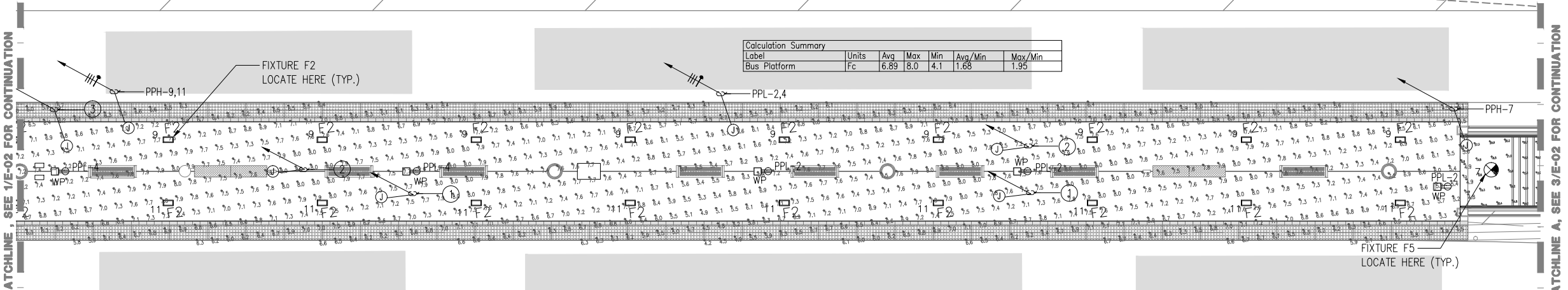
FILE/JOB NUMBER C0970
SCALE 1" = 40'
DWG. NO. E-01
SHEET 64 OF 80

Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
Pedestrian Walkway	Fc	3.47	3.7	1.1	3.15	3.36
Elevator Lobby	Fc	4.84	6.0	3.3	1.47	1.82



1 PARTIAL PEDESTRIAN WALKWAY LIGHTING AND POWER PLAN
E-02 1/8"=1'-0" 0 4 8 16

Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
Bus Platform	Fc	6.89	8.0	4.1	1.68	1.95



2 BUS PLATFORM LIGHTING AND POWER PLAN
E-02 1/8"=1'-0" 0 4 8 16

Illuminance Calculations Disclaimer:

Illuminance calculations are for lighting design aid purposes only. All calculations performed by Horton Lees Brogden Lighting Design are based on published methods, IES recommendations and photometry made available from lighting fixture manufacturers. While all necessary steps have been taken to ensure the accuracy of the calculations, it should be noted that all results are directly dependent on the IES format photometric file used as input and the point by point calculation software used. Therefore, results computed may vary by as much as 30 percent depending on the luminaire and lamp data base, light loss and ballast factors and the calculation program used. Field results may differ from computer light level analyses due to uncontrollable factors that may affect the lighting such as; line voltage variations, lamp and ballast performance, and actual field conditions such as finishes and environmental factors. Horton Lees Brogden Lighting Design, Inc. shall not bear the responsibility for the accuracy of the calculations performed and the results of the final light levels.

HLB
horton lees brogden
lighting design
8580 Washington Blvd
Culver City CA 90232
310 837 0929 voice
310 837 0902 fax

Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
Landing 1	Fc	18.96	28.5	9.2	2.06	3.10
Landing 2	Fc	21.39	31.9	11.2	1.91	2.85
Landing 3	Fc	19.27	34.8	7.3	2.64	4.77
Stair 1	Fc	18.53	32.3	6.2	2.99	5.21
Stair 2	Fc	20.83	29.9	13.1	1.59	2.28
Stair 3	Fc	20.41	30.7	10.6	1.93	2.90

3 EGRESS STAIR LIGHTING AND POWER PLAN
E-02 1/8"=1'-0" 0 4 8 16

- NOTES:**
- 1 PROVIDE POWER AND DATA (2-1" C MINIMUM WITH PULL CORD) FOR SIGNAGE WITH ELECTRONIC BOARD, VERIFY LOCATION. SEE SW SERIES DRAWINGS FOR EXACT LOCATION. COORDINATE WITH METRO AND MANUFACTURER FOR MORE INFORMATION AND DETAIL REQUIREMENTS. (TYPICAL TO ALL)
 - 2 PROVIDE POWER (1" C MINIMUM) FOR MAP CASE, VERIFY LOCATION. COORDINATE WITH METRO AND MANUFACTURER FOR MORE INFORMATION. (TYPICAL TO ALL)
 - 3 PROVIDE POWER AND DATA CONDUIT ONLY (2-1" C MINIMUM WITH PULL CORD) FOR FUTURE TVMS AND SAVS, VERIFY LOCATION. SEE DRAWINGS F-01 AND F-02 FOR EXACT LOCATION. COORDINATE WITH METRO AND MANUFACTURER FOR MORE INFORMATION AND DETAIL REQUIREMENTS. (TYPICAL TO ALL)



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
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10/15/10				ADVANCED CONCEPTUAL ENGINEERING

STV
STV Incorporated
1055 West 7th Street, Suite 3150
Los Angeles, CA 90017
www.stvinc.com

DESIGNED AK	RECOMMENDED
DRAWN BY T.L.	DATE
CHECKED RJF	APPROVED
DATE 4/8/2011	DATE

Metro

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

EGRESS STAIR LIGHTING PLAN
BUS PLATFORM LIGHTING PLAN
PARTIAL PEDESTRIAN WALKWAY LIGHTING PLAN

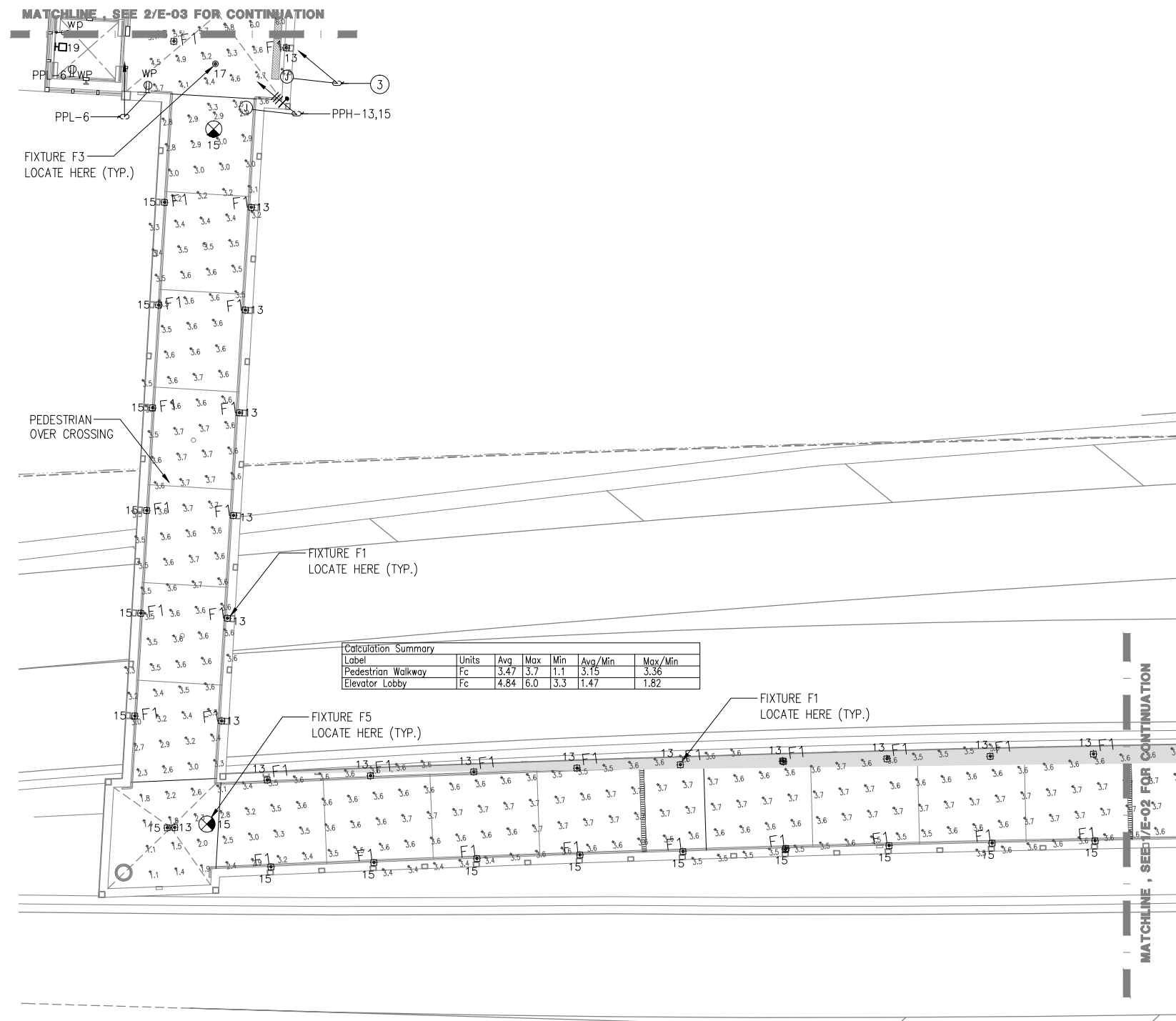
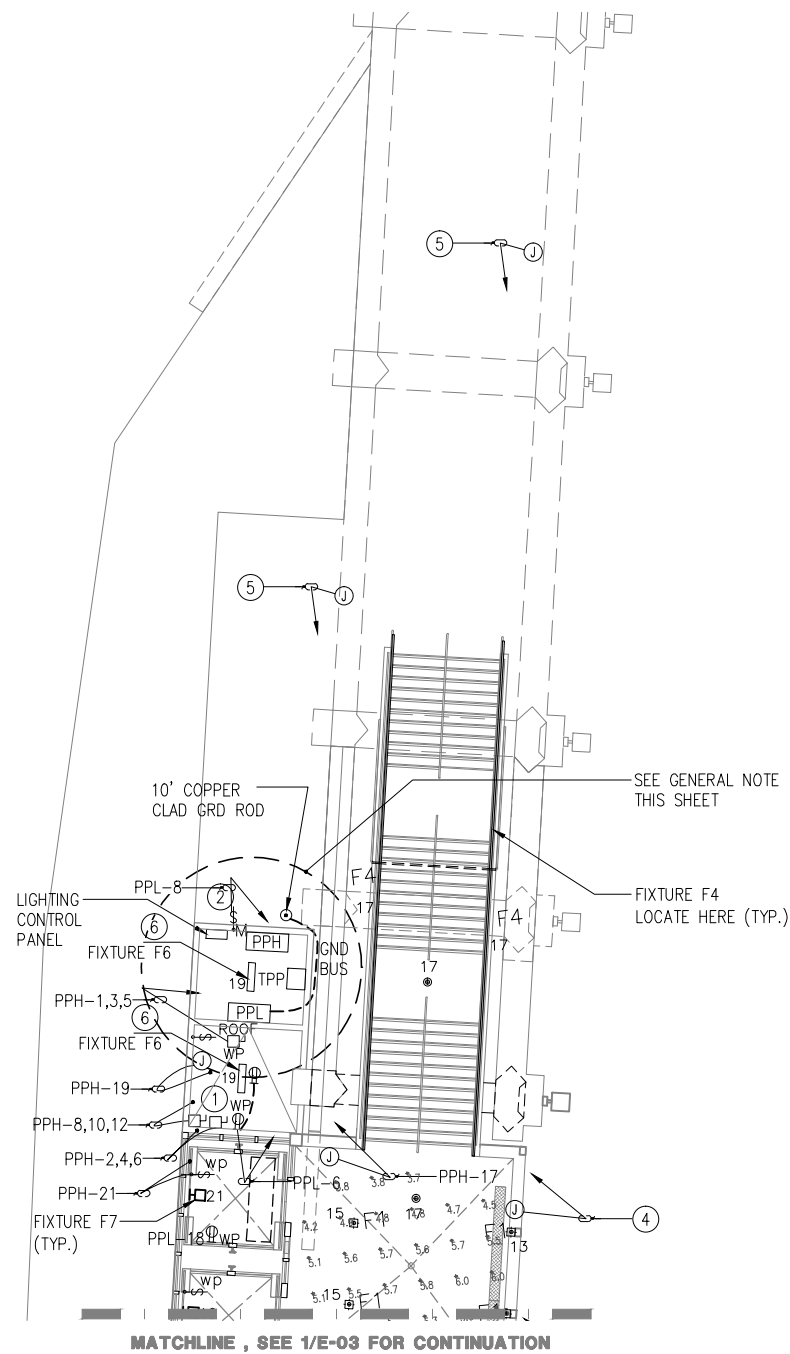
FILE/JOB NUMBER: C0970
SCALE: 1/8" = 1'-0"
DWG. NO.: **E-02**
SHEET: 65 OF 80



NOTES:

- ① 100AS-100AF-480V 3Ø DISCONNECT SWITCH FOR ELEVATOR. PROVIDE 1¼" C WITH 4#3, 1#8 GND. VERIFY LOCATION AND REQUIREMENTS WITH THE ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
- ② EXHAUST FAN SHALL BE CONTROLLED BY THERMOSTAT IN THE MACHINE ROOM.
- ③ PROVIDE POWER AND DATA (2-1" C MINIMUM WITH PULL CORD) FOR SIGNAGE WITH ELECTRONIC BOARD. VERIFY LOCATION. SEE SW SERIES DRAWINGS FOR EXACT LOCATION. COORDINATE WITH METRO AND MANUFACTURER FOR MORE INFORMATION AND DETAIL REQUIREMENTS. (TYPICAL TO ALL)
- ④ PROVIDE POWER (1" C MINIMUM) FOR MAP CASE. VERIFY LOCATION. COORDINATE WITH METRO AND MANUFACTURER FOR MORE INFORMATION. (TYPICAL TO ALL)
- ⑤ PROVIDE POWER AND DATA CONDUIT ONLY (2-1" C MINIMUM WITH PULL CORD) FOR FUTURE TVMS AND SAVS. VERIFY LOCATION. SEE DRAWINGS F-01 AND F-02 FOR EXACT LOCATION. COORDINATE WITH METRO AND MANUFACTURER FOR MORE INFORMATION AND DETAIL REQUIREMENTS. (TYPICAL TO ALL)
- ⑥ PROVIDE WEATHER PROOF 30A 480V 3 POLE DISCONNECT SWITCH WITH 15 AMPS FUSE FOR ROOF MOUNTED HVAC UNIT. SEE DETAIL ON ARCHITECT DRAWING SHEET A-13 AND VERIFY DISCONNECT SWITCH LOCATION. PROVIDE ¾" CO WITH PULL CORD TO THERMOSTAT FOR CONTROL. WIRE BY MECHANICAL.

GENERAL NOTE:
 1. CALIFORNIA ENERGY CODE (CEC) SECTION 620.37 REQUIRES THAT ONLY WIRING USED DIRECTLY IN CONNECTION WITH THE ELEVATORS WILL BE ALLOWED IN THE ELEVATOR MACHINE ROOM. SEPARATE ELECTRICAL ROOM SHALL BE PROVIDED FOR ALL OTHER ELECTRICAL PANELS AND EQUIPMENT.

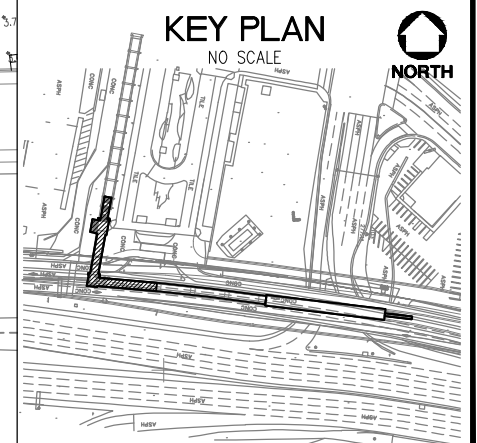


Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
Pedestrian Walkway	Fc	3.47	3.7	1.1	3.15	3.36
Elevator Lobby	Fc	4.84	6.0	3.3	1.47	1.82

2 PARTIAL BRIDGE AND STAIR LIGHTING AND POWER PLAN
 E-03 1/8"=1'-0" 0 4' 8' 16'

1 PARTIAL PEDESTRIAN WALKWAY AND BRIDGE LIGHTING AND POWER PLAN
 E-03 1/8"=1'-0" 0 4' 8' 16'

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE



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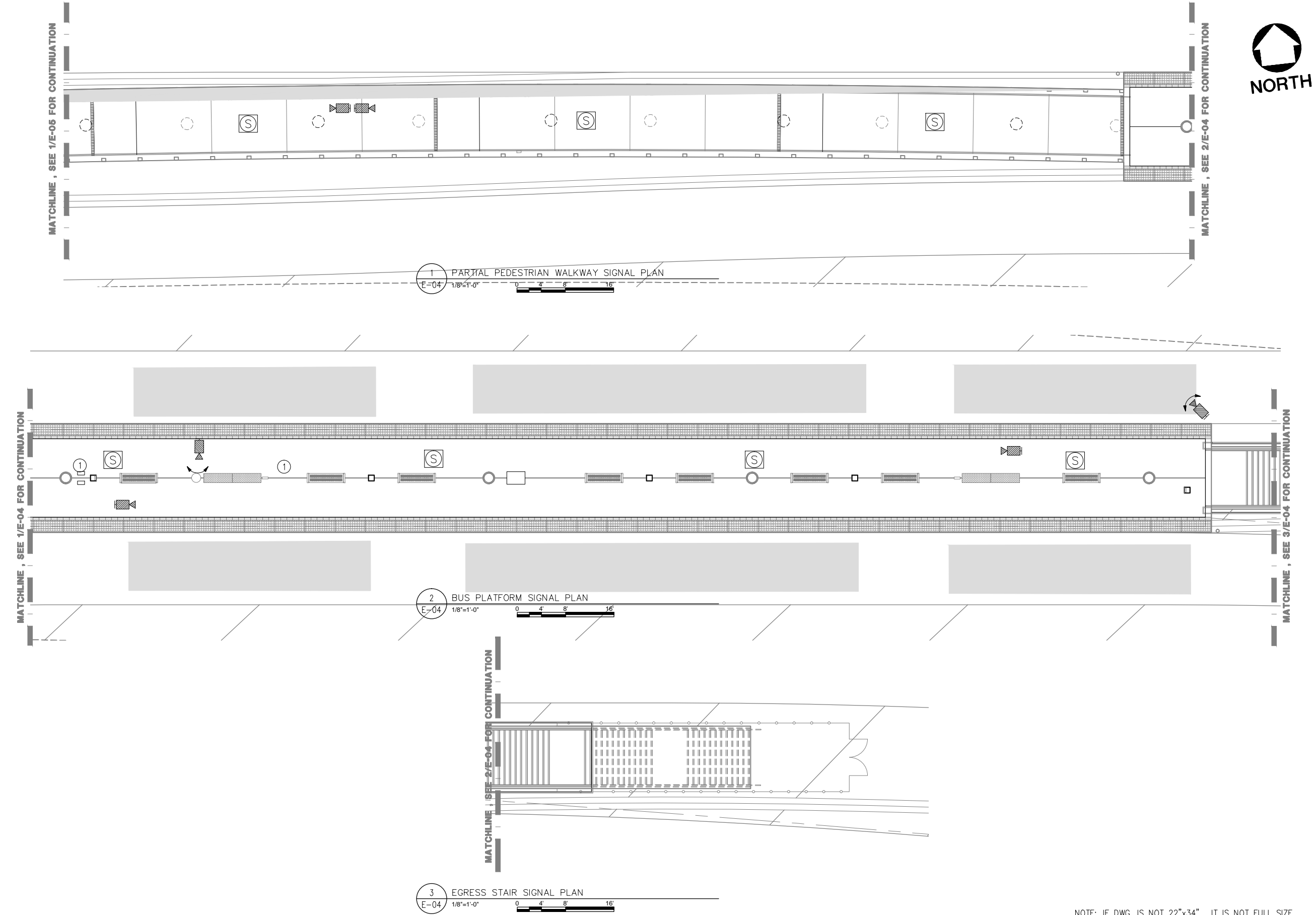
M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

RECOMMENDED	DATE	APPROVED	DATE
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UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

PARTIAL PEDESTRIAN WALKWAY AND BRIDGE LIGHTING PLAN
 STAIR LIGHTING PLAN

FILE/JOB NUMBER C0970
 SCALE 1/8" = 1'-0"
 DWG. NO. E-03
 SHEET 66 OF 80



LEGEND

- SECURITY CAMERA (PTZ), PROVIDE 2-1" CONDUIT FOR POWER AND DATA, CONTINUOUS TO CAMERA CONTROL ROOM VIA DATA CABINET.
- SECURITY CAMERA, PROVIDE 2-1" CONDUIT FOR POWER AND DATA, CONTINUOUS TO CAMERA CONTROL ROOM VIA DATA CABINET.
- PA SPEAKER PER SPECIFICATION, PROVIDE 1" CONDUIT CONTINUOUS TO EXISTING PA SYSTEM VIA DATA CABINET.

NOTES:

- ① SEE SHEETS E-02 AND E-03 FOR SIGNAGE, TWMS AND SAVS POWER NAD DATA CONDUITS REQUIREMENT.



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RECOMMENDED _____ DATE _____ APPROVED _____ DATE _____

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

EGRESS STAIR SIGNAL PLAN
BUS PLATFORM SIGNAL PLAN
PARTIAL PEDESTRIAN OVERCROSSING SIGNAL PLAN

FILE/JOB NUMBER	C0970
SCALE	1/8" = 1'-0"
DWG. NO.	E-04
SHEET	67 OF 80

LEGEND

-  SECURITY CAMERA (PTZ), PROVIDE 2-1" CONDUIT FOR POWER AND DATA, CONTINUOUS TO CAMERA CONTROL ROOM VIA DATA CABINET.
-  SECURITY CAMERA, PROVIDE 2-1" CONDUIT FOR POWER AND DATA, CONTINUOUS TO CAMERA CONTROL ROOM VIA DATA CABINET.
-  PA SPEAKER PER SPECIFICATION, PROVIDE 1" CONDUIT CONTINUOUS TO EXISTING PA SYSTEM VIA DATA CABINET.

NOTES:

- ① SEE SHEETS E-02 AND E-03 FOR SIGNAGE, TVMS AND SAYS POWER AND DATA CONDUITS REQUIREMENT.



MATCHLINE SEE 2/E-05 FOR CONTINUATION

PEDESTRIAN OVERCROSSING

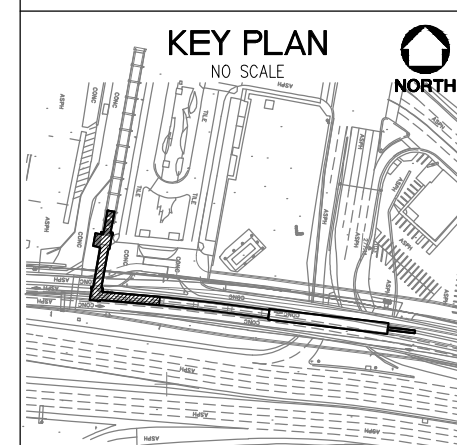
DATA CABINET FOR CAMERA AND PA.

PANEL PPL

MATCHLINE , SEE 1/E-05 FOR CONTINUATION

MATCHLINE , SEE 1/E-04 FOR CONTINUATION

KEY PLAN
NO SCALE



2 PARTIAL BRIDGE AND STAIR SIGNAL PLAN
E-05 1/8"=1'-0" 0 4 8 16

1 PARTIAL PEDESTRIAN WALKWAY AND BRIDGE SIGNAL PLAN
E-05 1/8"=1'-0" 0 4 8 16

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UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

PARTIAL PEDESTRIAN OVERCROSSING SIGNAL PLAN AND BRIDGE SIGNAL PLAN
STAIR SIGNAL PLAN

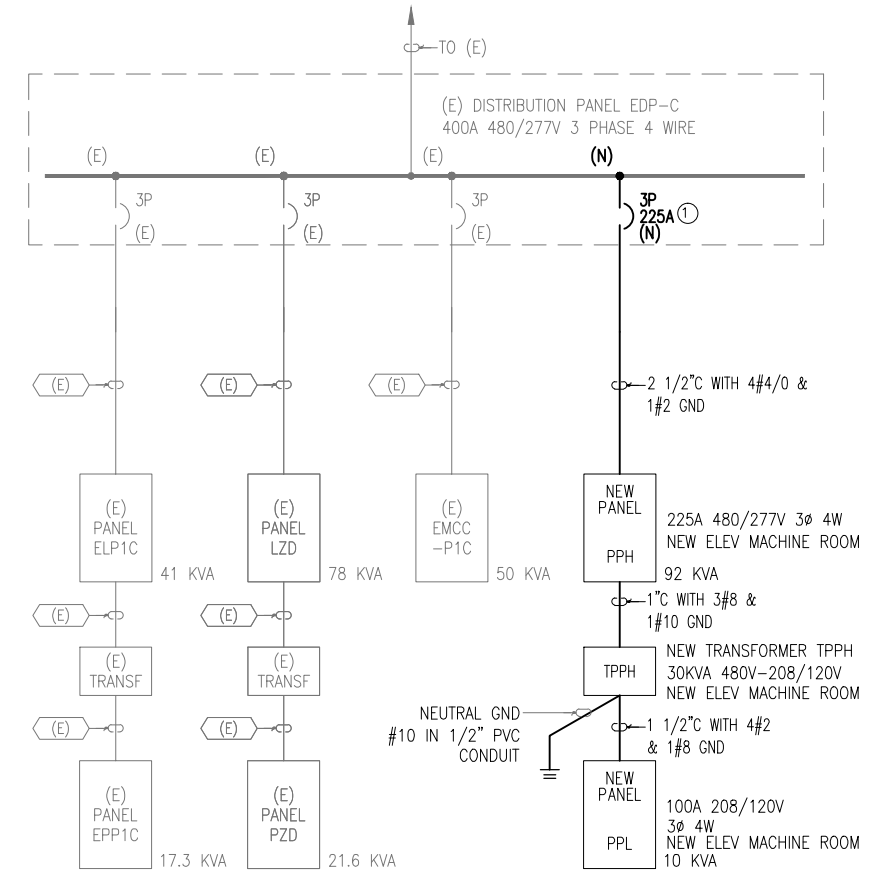
FILE/JOB NUMBER	C0970
SCALE	1/8" = 1'-0"
DWG. NO.	E-05
SHEET	68 OF 80

PATSAOUURAS PLAZA BUS WAY STATION															NEW PANEL PPH														
VOLTAGE: 480/277					LOCATION: MACHINE ROOM					MAIN: 225 A					3-PHASE, 4-WIRE					SOURCE: EDP-C					BUS: 225 A				
MOUNTING: SURFACE																													
ckt	LCL	Load	LTS	REC	MISC	A	B	C	Bkr	Ø	Bkr	A	B	C	LTS	REC	MISC	Load	LCL	ckt									
1	0	HVAC ON ROOF				2000			15A	•	100A	10606						NEW ELEVATOR # 1	0	2									
3	0						2000			•				10606					0	4									
5	0							2000	3P	•									0	6									
7	0	LTS				2000			20A	•	100A	10606						NEW ELEVATOR # 2	0	8									
9	0	LTS					2000		20A	•				10606					0	10									
11	0	LTS						2000	20A	•	3P				10606				0	12									
13	0	LTS				2000			20A	•	45A	3500						TRANSFORMER TPPH	0	14									
15	0	LTS					2000		20A	•				3500					0	16									
17	0	LTS						2000	20A	•	3P								0	18									
19	0	LTS				100			20A	•	20A							SPARE	0	20									
21	0	LTS					100		20A	•	20A							SPARE	0	22									
23	0	SPARE							20A	•	20A							SPARE	0	24									
25	0	SPARE							20A	•	20A							SPARE	0	26									
27	0	SPARE							20A	•	20A							SPARE	0	28									
29	0	SPARE							20A	•	20A							SPARE	0	30									
31	0	SPARE							20A	•	20A							SPARE	0	32									
33	0	SPARE							20A	•								SPACE	0	34									
35	0	SPARE							20A	•								SPACE	0	36									
37	0	SPACE								•								SPACE	0	38									
39	0									•									0	40									
41	0									•									0	42									
						6100	6000	6000				24712	24712	24712															

Phase A Conn Load:	30812	Conn KVA =	92.44	Calc load current =	111	Amps/ phase	
Phase B Conn Load:	30812	25% LCL KVA =	3.1	25% LGST MTR KVA =	-	FEEDER KVA =	95.54
Phase C Conn Load:	30812	MIN. FEEDER AMPACITY =	115	AMPS			

PATSAOUURAS PLAZA BUS WAY STATION															NEW PANEL PPL														
VOLTAGE: 208/120					LOCATION: MACHINE ROOM					MAIN: 100 A					3-PHASE, 4-WIRE					SOURCE: TPPH					BUS: 100 A				
MOUNTING: SURFACE																													
ckt	LCL	Load	LTS	REC	MISC	A	B	C	Bkr	Ø	Bkr	A	B	C	LTS	REC	MISC	Load	LCL	ckt									
1	0	NEW CCTV CAMERA				1000			20A	•	20A	500						NEW OUTLETS	0	2									
3	0	NEW CCTV CAMERA					1000		20A	•	20A			500				NEW OUTLETS	0	4									
5	0	NEW CCTV CAMERA						1000	20A	•	20A				1000			NEW OUTLETS	0	6									
7	0	SINGAGE				500			20A	•	20A	500						EXH-FAN	0	8									
9	0	SINGAGE					500		20A	•	20A			500				MAPCASE	0	10									
11	0	SINGAGE						500	20A	•	20A				500			MAPCASE	0	12									
13	0	SINGAGE				500			20A	•	20A	500						MAPCASE	0	14									
15	0	SINGAGE					500		20A	•	20A			500				MAPCASE	0	16									
17	0	SPARE							20A	•	20A				180		1	ELEV. PIT RECEPTICAL	0	18									
19	0	SPARE							20A	•	20A							SPARE	0	20									
21	0	SPARE							20A	•	20A							SPARE	0	22									
23	0	SPARE							20A	•	20A							SPARE	0	24									
25	0	SPARE							20A	•	20A							SPARE	0	26									
27	0	SPARE							20A	•	20A							SPARE	0	28									
29	0	SPARE							20A	•	20A							SPARE	0	30									
						2000	2000	1500				1500	1500	1500															

Phase A Conn Load:	3500	Conn KVA =	10	Calc load current =	27	Amps/ phase	
Phase B Conn Load:	3500	25% LCL KVA =	-	25% LGST MTR KVA =	-	FEEDER KVA =	
Phase C Conn Load:	3000	MIN. FEEDER AMPACITY =	27	AMPS			



ESTIMATED LOAD ON DISTRIBUTION PANEL EDP-C

CONNECTED LOAD ON PANEL ELP1C	41 KVA
CONNECTED LOAD ON PANEL LZD	78 KVA
CONNECTED LOAD ON EMCC-P1C	50 KVA
CONNECTED LOAD ON NEW PANEL PPH	92 KVA
NEW TOTAL CONNECTED LOAD	261 KVA
	313 Amp @ 480V 3 phase
	313 x 1.25 = 391 Amp which is under 400A

NOTE:

1. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE.

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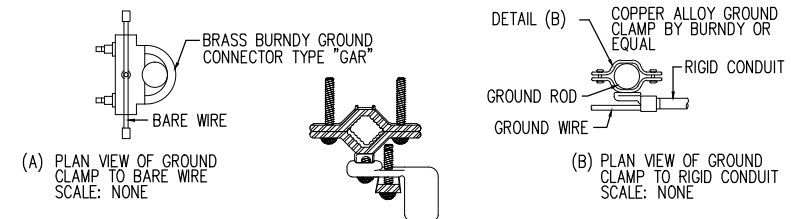
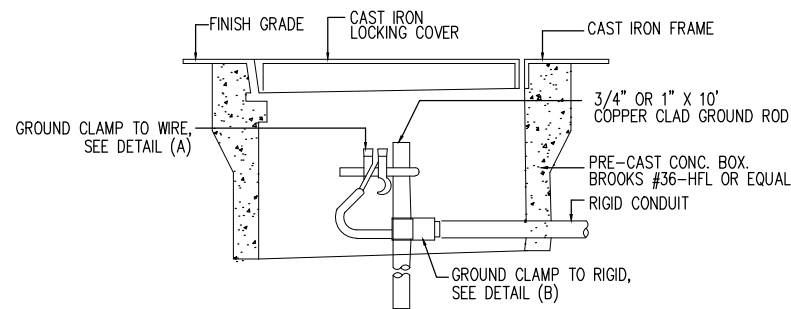
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UNION/PATSAOUURAS PLAZA BUSWAY STATION DESIGN BUILD CONTRACT No. C0970		FILE/JOB NUMBER C0970
ONE LINE DIAGRAM AND PANEL SCHEDULE		SCALE NO SCALE
		DWG. NO. E-06
		SHEET 69 OF 80



NOTES:

1. SAWCUT EXISTING CONCRETE SLAB (A.C.PAVING @ EXTERIOR LOCATIONS) MINIMUM 6" LARGER THAN BOX ALL AROUND.
2. FOR INTERIOR INSTALLATIONS, CORE DRILL 1" DIA. HOLE THROUGH SLAB FOR GROUND ROD AND LEAVE 6" EXPOSED AFF FOR GROUND WIRE CONNECTION. REPACK HOLE AROUND GROUND ROD.
3. GROUND ROD RESISTANCE TO GROUND NOT TO EXCEED 5 OHMS. IF 5 OHMS EXCEEDED INSTALL 2ND GROUND ROD NO LESS THAN 10 FEET APART, RODS TO BE CONNECTED IN PARALLEL.

GROUND ROD AND CONCRETE BOX DETAIL (TYPICAL)

SCALE: NO SCALE



LIGHTING FIXTURE SCHEDULE

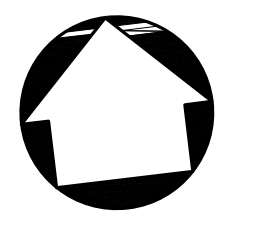
TYPE	DESCRIPTION	MANUFACTURER/CATALOG NO	LAMP DATA			INPUT VOLTS	SYMBOLS
			QTY.	LAMPING	BALLAST		
F1	SURFACE MOUNTED COMPACT FLUORESCENT AREA LIGHT LOCATION: PEDESTRIAN CANOPY	BEGA 2639P-FINISH-VOLTS OR APPROVED EQUAL ALTERNATES	1	42 WATT T4 TRIPLE TUBE COMPACT FLUORESCENT (OSRAM CF42DT/E/IN/835)	INTEGRAL HPF ELECTRONIC	277	⊕
F2	SURFACE MOUNTED COMPACT FLUORESCENT DOWNLIGHT LOCATION: BUS LOADING	GARDCO 101-MT-242TRF-VOLTS-FINISH-SL OR APPROVED EQUAL ALTERNATES	2	42 WATT T4 TRIPLE TUBE COMPACT FLUORESCENT (OSRAM CF42DT/E/IN/835)	INTEGRAL HPF ELECTRONIC	277	⬤
F2 ADD ALTERNATE	WALL MOUNTED INDUCTION LAMP DOWNLIGHT LOCATION: BUS LOADING	EVERLAST EFL-ED-100W-VOLTS-FINISH OR APPROVED EQUAL	1	100 WATT INDUCTION LAMP (OSRAM ICE100/835/2P/ECO)	INTEGRAL HPF ELECTRONIC	277	⬤
F3	8" APERTURE SURFACE MOUNTED COMPACT FLUORESCENT DOWNLIGHT LIGHT LOCATION: PEDESTRIAN CANOPY	KIRLIN LIGHTING FSR-09047-70-FINISH-SG-80-89-PM OR APPROVED EQUAL ALTERNATES	1	42 WATT T4 TRIPLE TUBE COMPACT FLUORESCENT (OSRAM CF42DT/E/IN/835)	INTEGRAL HPF ELECTRONIC	277	⊕
F3 ADD ALTERNATE	8" APERTURE SURFACE MOUNTED COMPACT FLUORESCENT DOWNLIGHT LIGHT LOCATION: PEDESTRIAN CANOPY	KIRLIN LIGHTING QSR-12083-43-31-FINISH-80-89-PM OR APPROVED EQUAL ALTERNATES	1	55 WATT INDUCTION LAMP (PHILIPS QL55W/830TWIST BASE)	INTEGRAL HPF ELECTRONIC	277	⊕
F4	POST MOUNTED LED INTEGRATED INTO ARCHITECTURAL RAILING LOCATION: STAIR	INTENSE LIGHTING IVR-2-FINISH-P-RAIL-HT-HO-35-30AS OR APPROVED EQUAL ALTERNATES	1	4.2 WATT/FT. LED 3500K WARM WHITE HO (270 LUMENS/FT)	INTEGRAL ELCTRONIC DRIVER	277	▬
F5	EMERGENCY EXIT LIGHT WITH BATTERY PACK HIGH ABUSE, COLD WEATHER AND WET LOCATION TYPE LOCATION: STAIR, PEDESTRIAN OVER CROSSING	LITHONIA LIGHTING LV-S-W-1-R-120/277-UM-ELNSD LDC12/48-4X OR APPROVED EQUAL ALTERNATES	1	5.0/4.0 LED EMERGENCY LED RED	-	277	⊗
F6	SURFACE MOUNTED ENCLOSED, VANDAL-RESISTANT AND FULLY-GASKETED FLUORESCENT FIXTURE	LITHONIA LIGHTING VRI-2-32-MVOLT OR APPROVED EQUAL	2	32 WATT COMPACT FLUORESCENT	HPF ELECTRONIC	277	▬
F7	WALL MOUNTED VANDAL RESISTANT FIXTURE, SEAMLESS, ONE-PIECE, CLOSED CELL NEOPRENE RUBBER GASKET AND STAINLESS STEEL TAMPER-PROOF SCREW. UL LISTED FOR WET LOCATIONS.	KENALL LIGHTING S711D-C-DB-26Q-1-277 OR APPROVED EQUAL	1	28 WATT COMPACT FLUORESCENT	-	277	⊕

GENERAL NOTES:

1. FIXTURE TYPES SPECIFIED ARE INDICATED TO ESTABLISH A LEVEL OF QUALITY. ALTERNATE TYPES MAY BE SUBMITTED FOR APPROVAL.
2. PROVIDE ALL LIGHTING FIXTURES AS SHOWN WITH ALL LAMPS, COMPLETELY WIRED, CONTROLLED AND SECURELY ATTACHED TO SUPPORTS.
3. WHERE BOTH NARRATIVE AND/OR PICTORIAL FIXTURE DESCRIPTIONS ARE PROVIDED, THE WRITTEN DESCRIPTION SHALL TAKE PRECEDENCE AND PREVAIL.
4. THE LIGHTING FIXTURES AND WORKMANSHIP MUST BE IN ACCORDANCE WITH AND MEET THE STANDARDS AND REGULATIONS OF THE FOLLOWING:
 - A) UNDERWRITERS LABORATORIES
 - B) NATIONAL ELECTRICAL CODE
 - C) LOCAL BUILDING AND LIFE SAFETY CODE AGENCIES
5. ALL FIXTURES AND WORKMANSHIP SHALL BE GUARANTEED FREE OF DEFECTS AND FULLY OPERATIONAL FOR A MINIMUM OF ONE YEAR AFTER THE ACCEPTANCE OF THE PROJECT BY THE OWNER. ANY FIXTURES OR WORKMANSHIP (EXCLUDING LAMPS) FOUND TO BE DEFECTIVE DURING THE WARRANTY PERIOD WILL BE EITHER FIXED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
6. LOCATIONS OF FIXTURES ARE SHOWN DIAGRAMMATICALLY. VERIFY EXACT LOCATION AND SPACING WITH PLANS AND DESIGNER AT THE SITE DURING INSTALLATION. NOTIFY OWNER ABOUT FIELD VARIANCE WITH CONTRACT DOCUMENTS BEFORE COMMENCING INSTALLATION.
7. PROVIDE ADEQUATE AND STURDY SUPPORT FOR EACH LIGHTING FIXTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING WEIGHT AND MOUNTING METHOD OF ALL FIXTURES AND FURNISH AND INSTALL SUITABLE SUPPORTS.
8. AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES SO AS TO RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURE. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES SHALL BE REPLACED IN A SATISFACTORY MANNER.
9. REPLACE ALL BURNED-OUT LAMPS AND INOPERATIVE BALLASTS IN ALL FIXTURES BEFORE BUILDING IS ACCEPTED BY THE OWNER SO THAT ALL LIGHTING FIXTURES WILL BE IN FIRST CLASS OPERATING CONDITION.
10. CONTRACTOR TO REVIEW EXISTING CIRCUITING, VERIFY NEW LOADS AND PANEL CAPACITY. CONTRACTOR SHALL NOTIFY OWNER IF A CONFLICT BETWEEN DESIGN DOCUMENTS AND FIELD CONDITIONS OCCURS.
11. TYPICAL FIXTURE MOUNTING DETAIL PER MANUFACTURER DRAWINGS. SITE LIGHTING FIXTURE TO BE CONNECTED TO LIGHTING PANEL VIA LIGHTING CONTROL PANEL.
12. COORDINATE SIGNAGE LOCATIONS WITH AND ATTACHEMENTS TO ENSURE CLEAR SIGHT LINES AND LACK OF CONFLICTS WITH LIGHT FIXTURES, CAMERAS AND OTHER MOUNTED ELEMENTS.

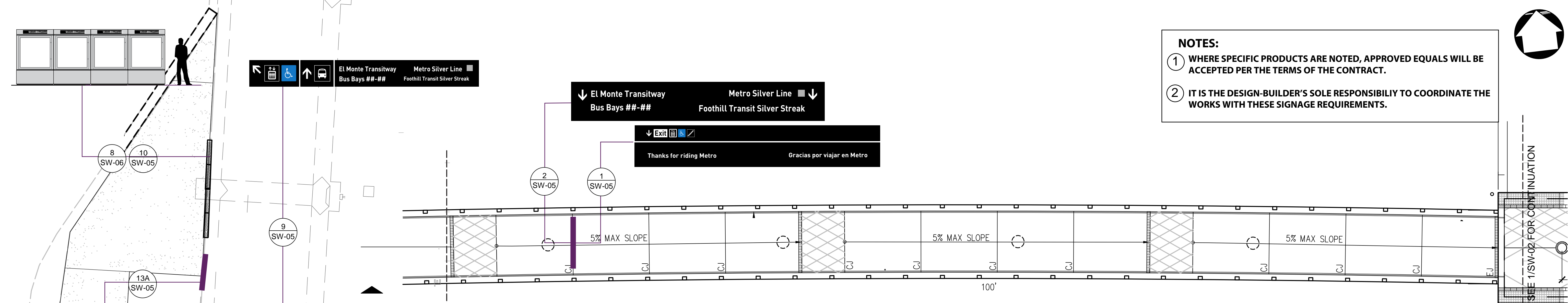
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REV.	DATE	BY	APP.	DESCRIPTION																																
05/07/12				ISSUED FOR BID																																
10/15/10				ADVANCED CONCEPTUAL ENGINEERING																																
DESIGNED	AK																																			
DRAWN BY	TL																																			
CHECKED	RJF																																			
DATE	4/16/2012																																			
FILE/JOB NUMBER	C0970																																			
SCALE	NO SCALE																																			
DWG. NO.	E-07																																			
SHEET	70 OF 80																																			

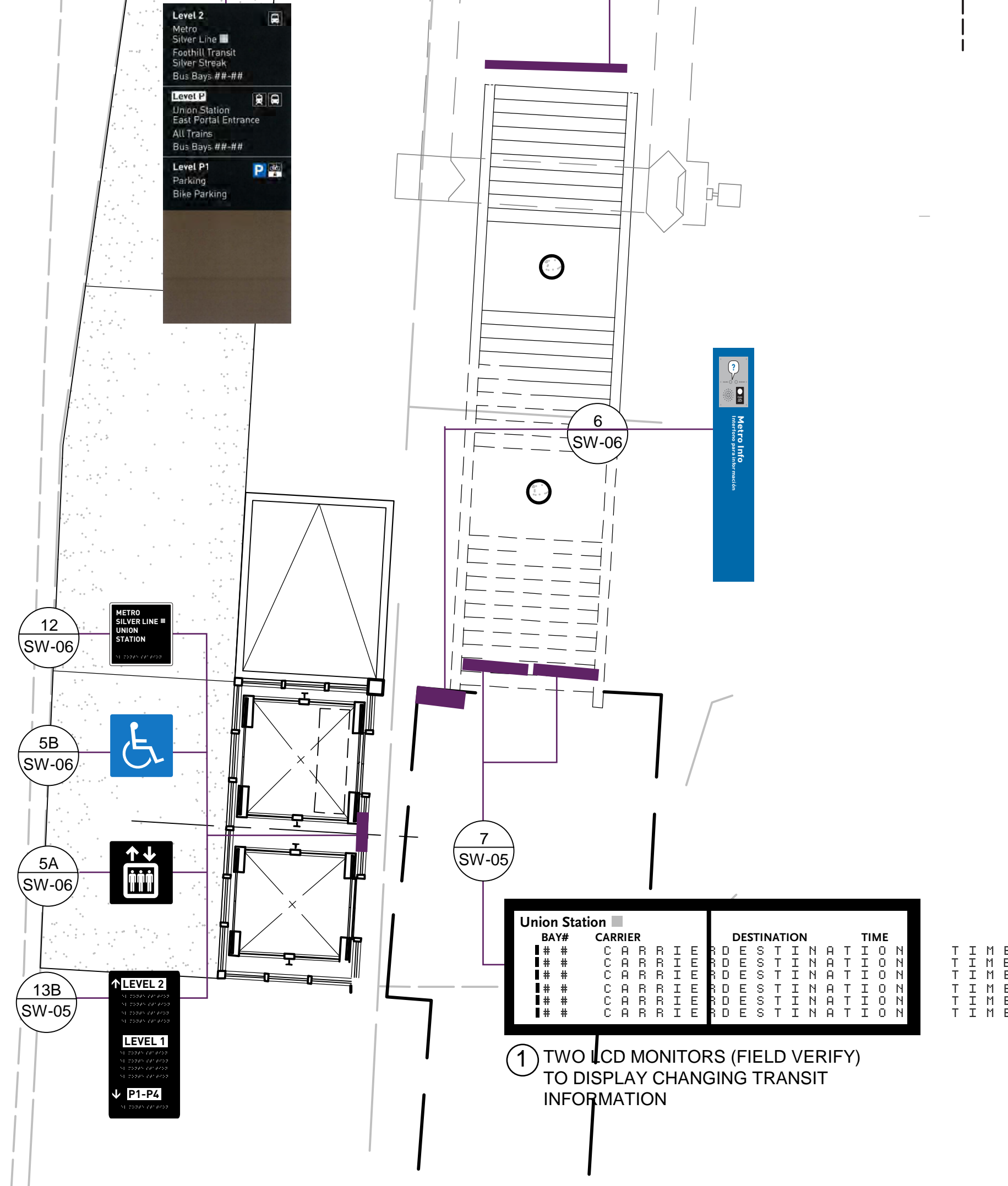


NOTES:

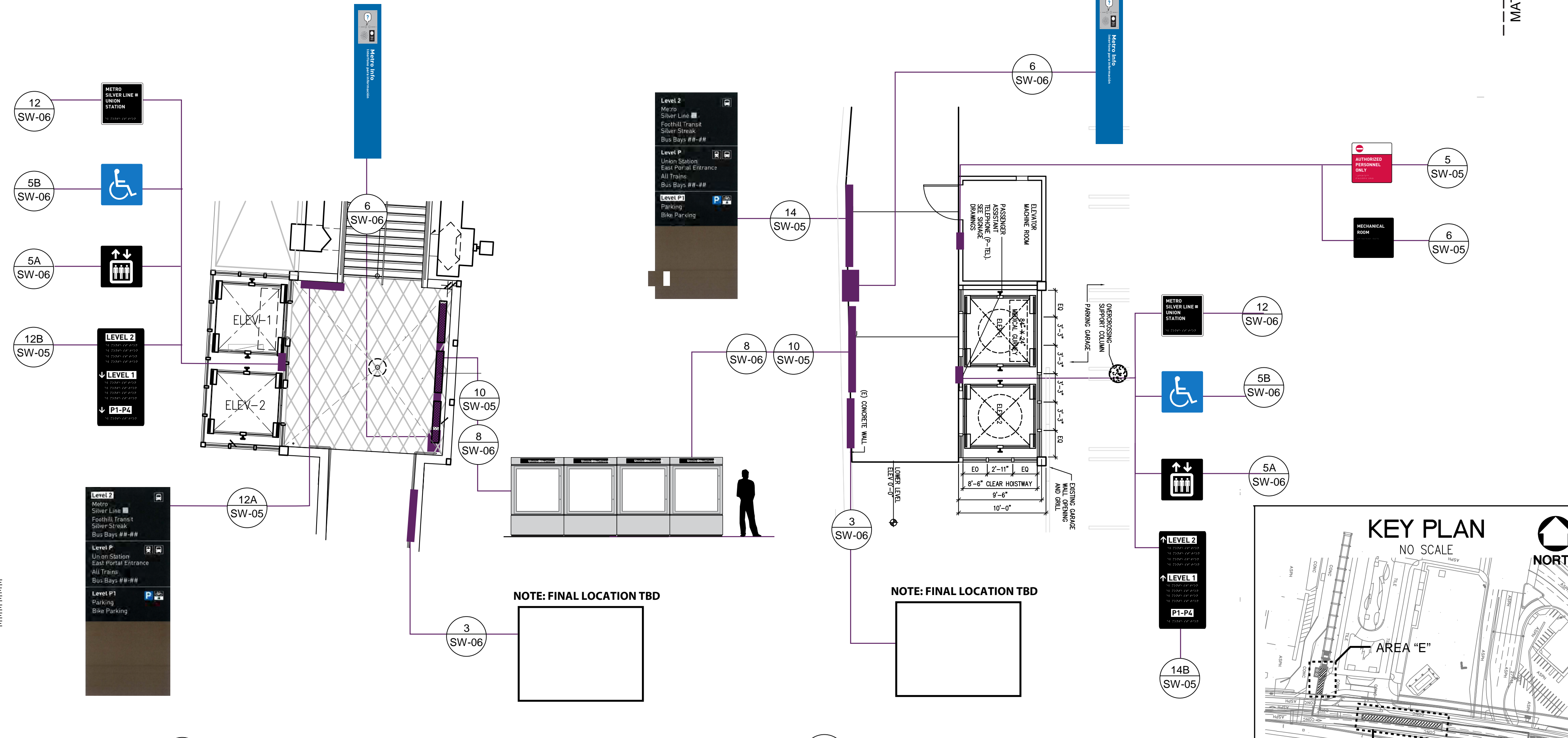
- WHERE SPECIFIC PRODUCTS ARE NOTED, APPROVED EQUALS WILL BE ACCEPTED PER THE TERMS OF THE CONTRACT.
- IT IS THE DESIGN-BUILDER'S SOLE RESPONSIBILITY TO COORDINATE THE WORKS WITH THESE SIGNAGE REQUIREMENTS.



2 PARTIAL PEDESTRIAN WALKWAY PLAN - AREA C
SW-01 1/8"=1'-0" 0 4' 8' 16'

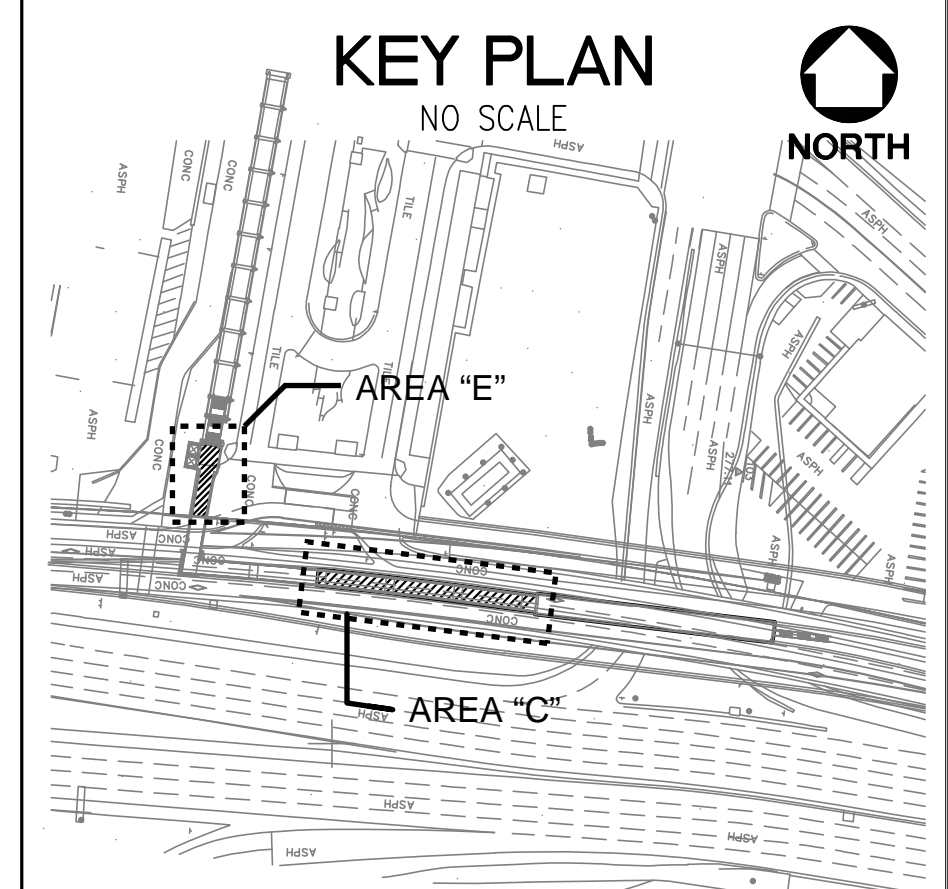


4 PARTIAL PEDESTRIAN WALKWAY PLAZA LEVEL PLAN - AREA E
SW-01 1/8"=1'-0" 0 4' 8' 16'



3 PARTIAL WALKWAY AND ELEVATOR UPPER LEVEL PLAN - AREA E
SW-01 1/8"=1'-0" 0 4' 8' 16'

1 ELEVATOR PARKING LEVEL PLAN - AREA E
SW-01 1/8"=1'-0" 0 4' 8' 16'



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				Issue For Bid
10/15/10				Advanced Conceptual Engineering

STV
STV Incorporated
1055 West 7th Street, Suite 3150
Los Angeles, CA 90017
www.stvinc.com

DESIGNED
M. PETERSON
DRAWN BY
R. HU
CHECKED
M. PETERSON
DATE
10/15/2010

M LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY
Metro

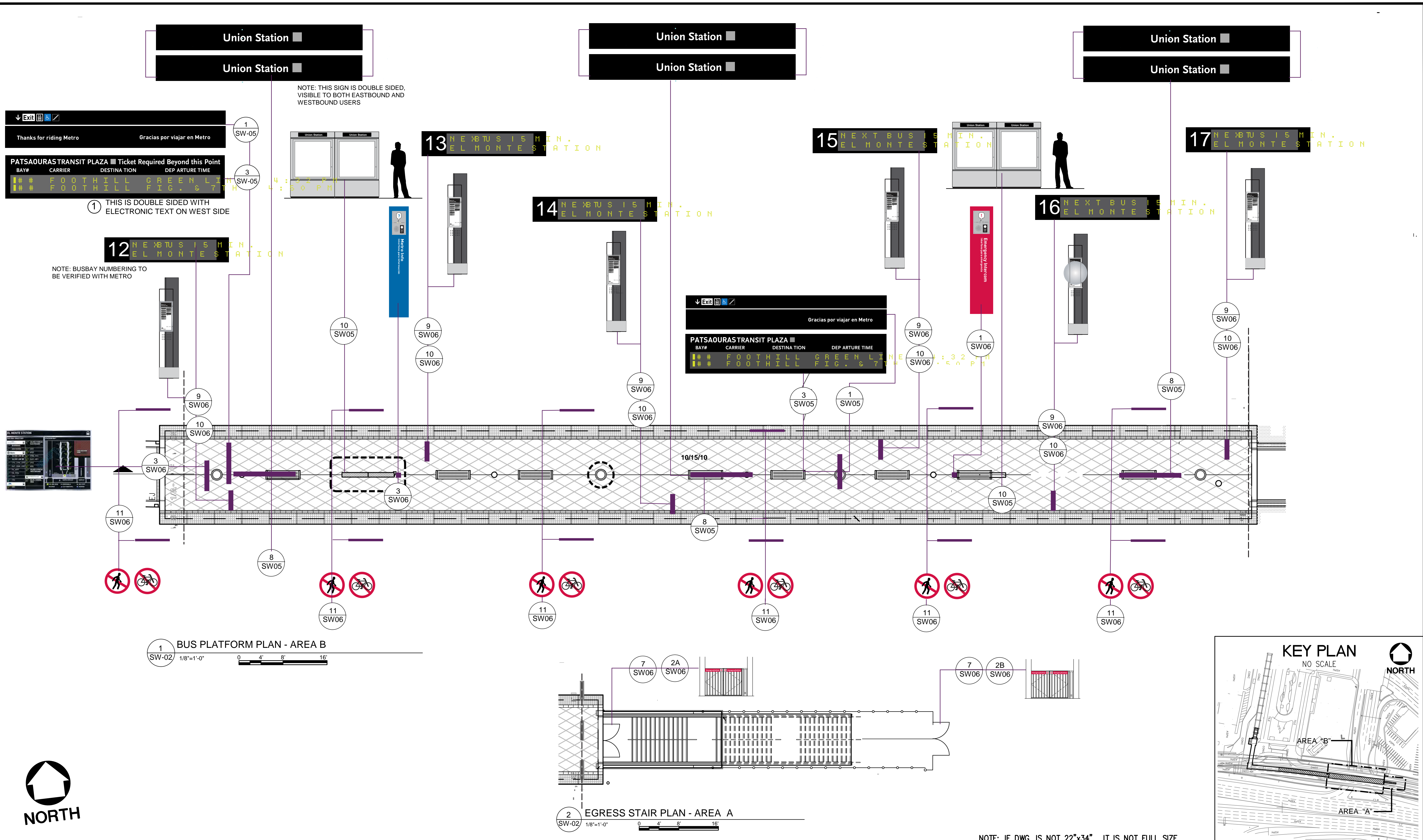
RECOMMENDED _____ DATE _____ APPROVED _____ DATE _____

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

PLAN- AREA E
PLAN- AREA C

FILE/JOB NUMBER
C0970
SCALE
1" = 20'
DWG. NO.
SW-01
SHEET
72 OF 80

Drawing Name: I:\projects\4014563\4014563_0001\Drawings\AREA_A-01A.dwg Printed: Jun 09, 2010 8:02am by: cossaris



REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				Issue For Bid
10/15/10				Advanced Conceptual Engineering

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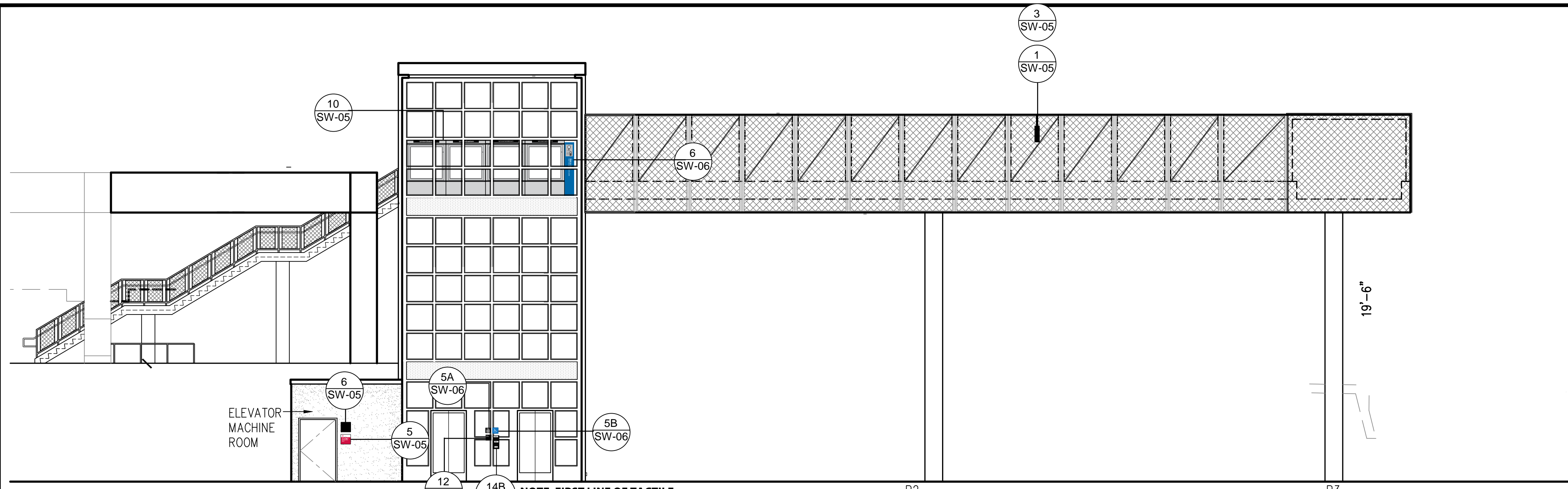
DESIGNED M. PETERSON
DRAWN BY R. HU
CHECKED M. PETERSON
DATE 10/15/2010

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

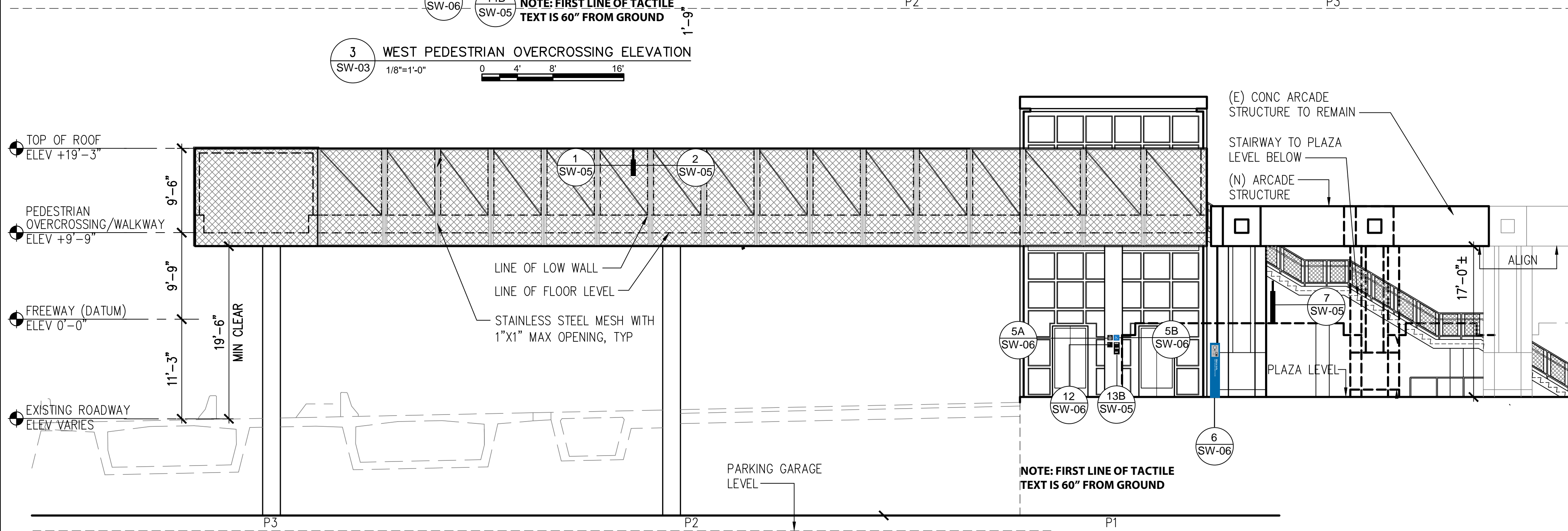
RECOMMENDED _____ DATE _____ APPROVED _____ DATE _____

UNION/PATSAOURAS PLAZA BUSWAY STATION DESIGN BUILD CONTRACT No. C0970	FILE/JOB NUMBER C0970
EGRESS STAIR PLAN - AREA A BUS PLATFORM PLAN - AREA B	SCALE 1/8" = 1'-0"
	DWG. NO. SW-02
	SHEET 73 OF 80

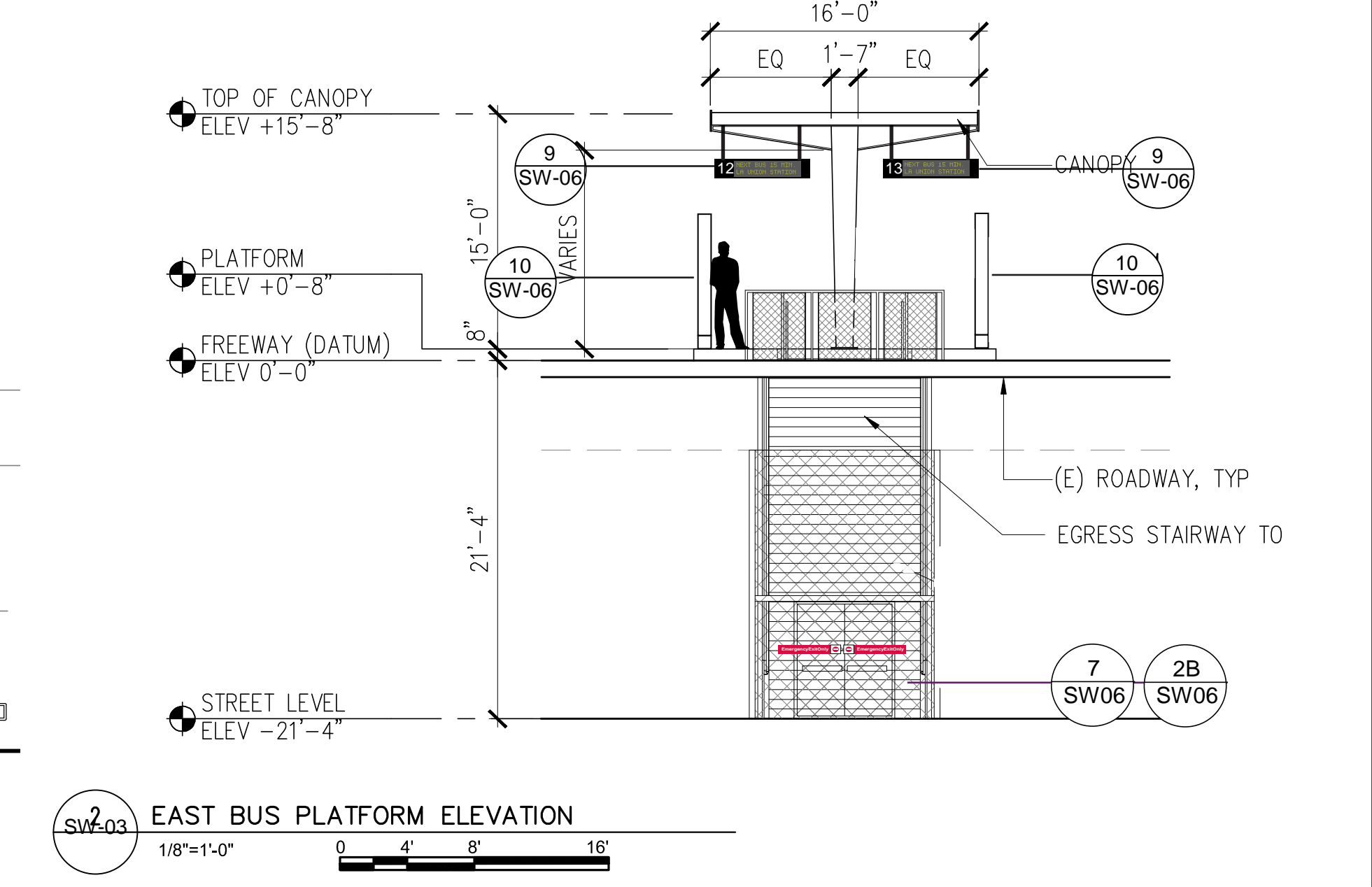
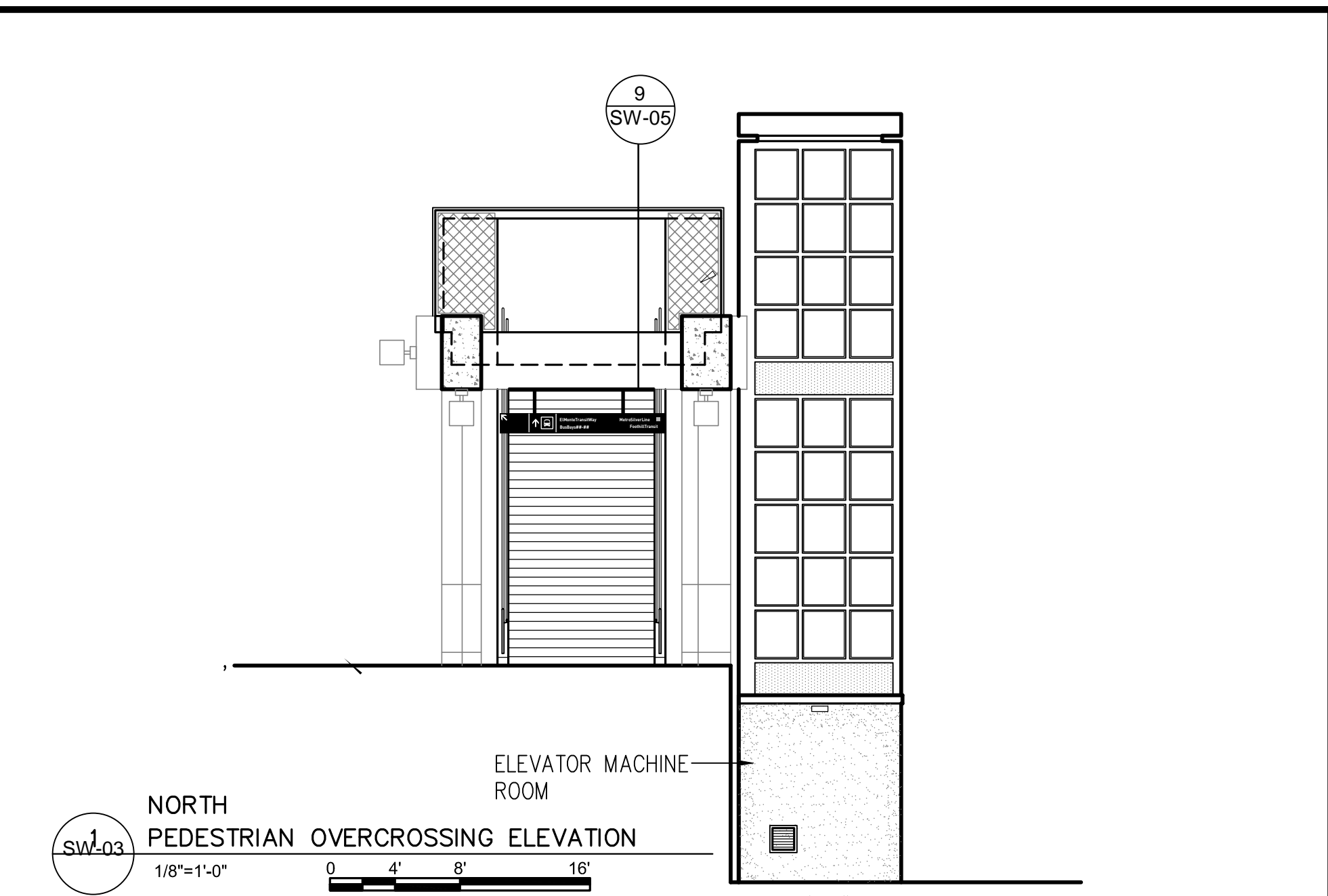
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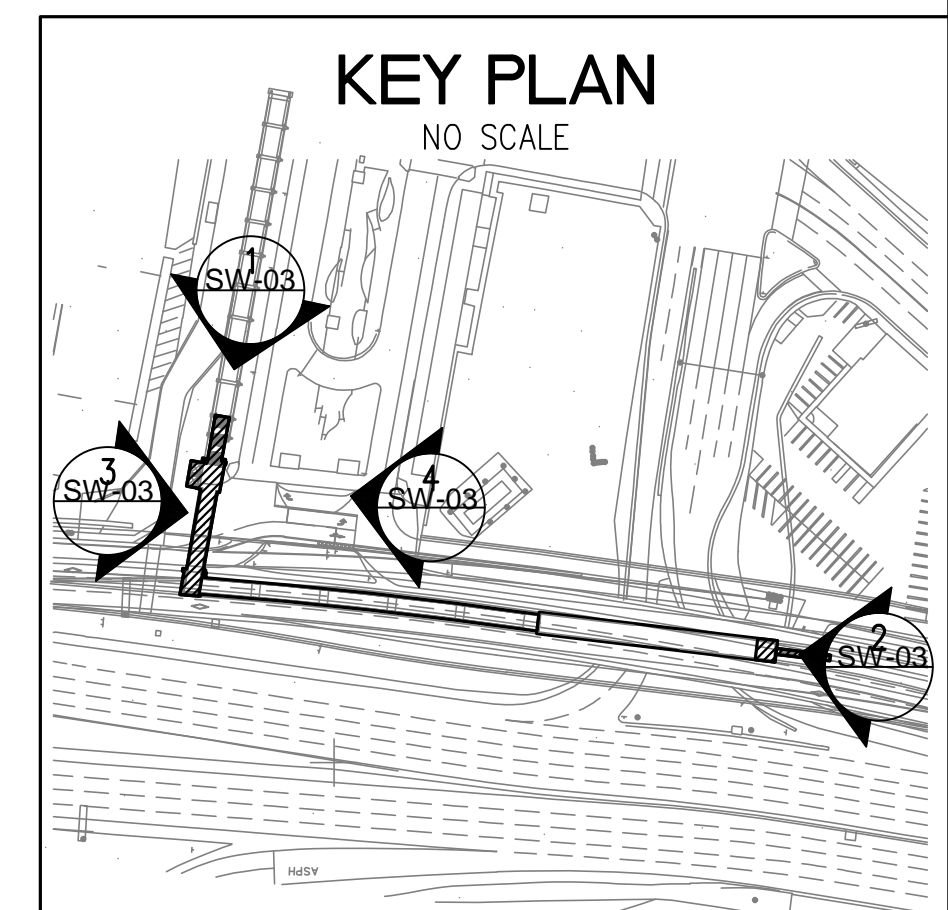
3 WEST PEDESTRIAN OVERCROSSING ELEVATION
 1/8"=1'-0"
 0 4' 8' 16'



4 EAST PEDESTRIAN OVERCROSSING ELEVATION
 1/8"=1'-0"
 0 4' 8' 16'



2 EAST BUS PLATFORM ELEVATION
 1/8"=1'-0"
 0 4' 8' 16'



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
	05/07/12			Issue For Bid
	10/15/10			Advanced Conceptual Engineering

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DESIGNED	M. PETERSON
DRAWN BY	R. HU
CHECKED	M. PETERSON
DATE	6/18/2010

Metro

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

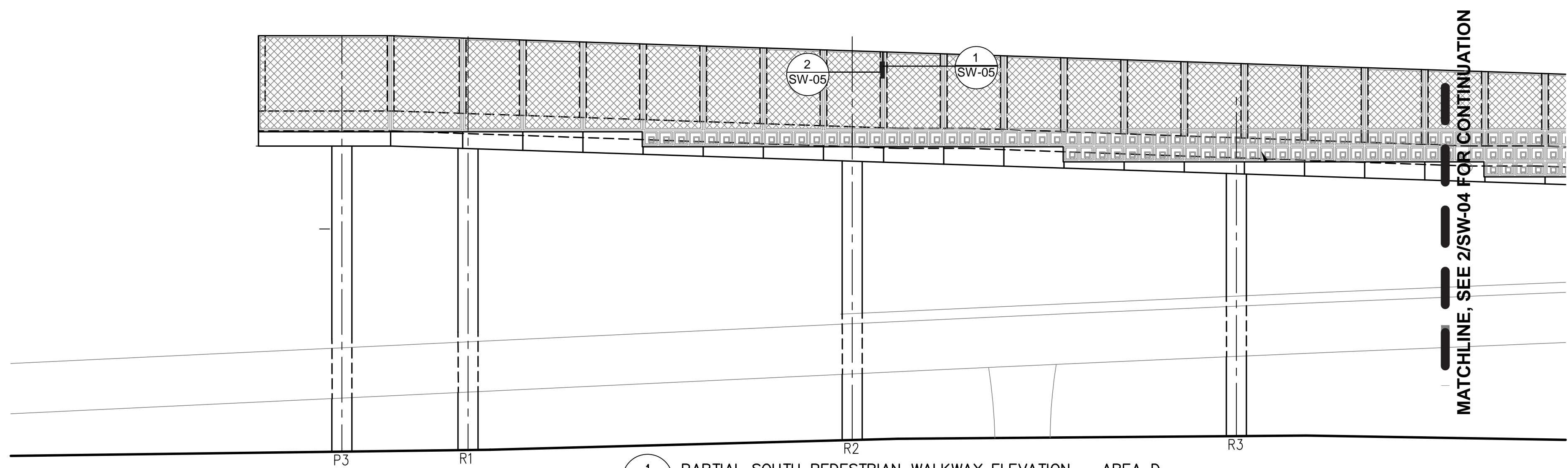
RECOMMENDED _____ DATE _____ APPROVED _____ DATE _____

UNION/PATSAOURAS PLAZA BUSWAY STATION
 DESIGN BUILD CONTRACT No. C0970

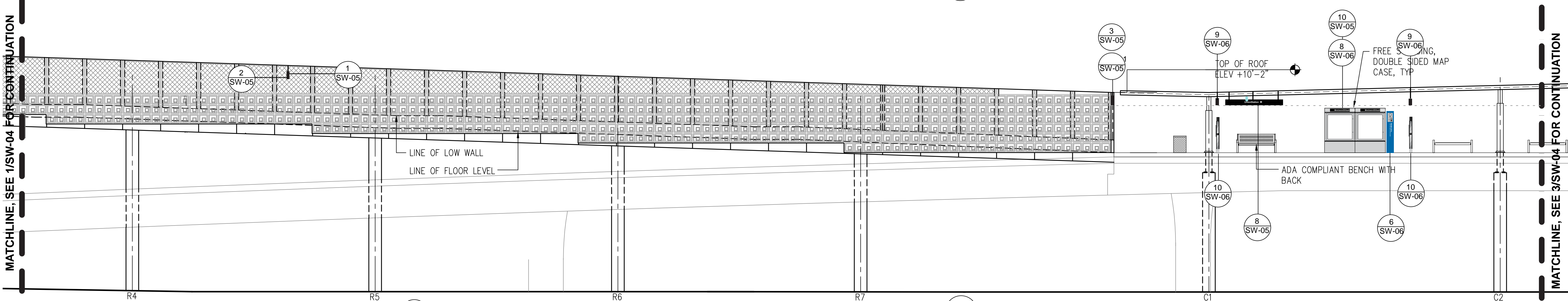
EXTERIOR ELEVATIONS WALKWAY SECTION

FILE/JOB NUMBER	C0970
SCALE	1/8"=1'-0"
DWG. NO.	SW-03
SHEET	74 OF 80

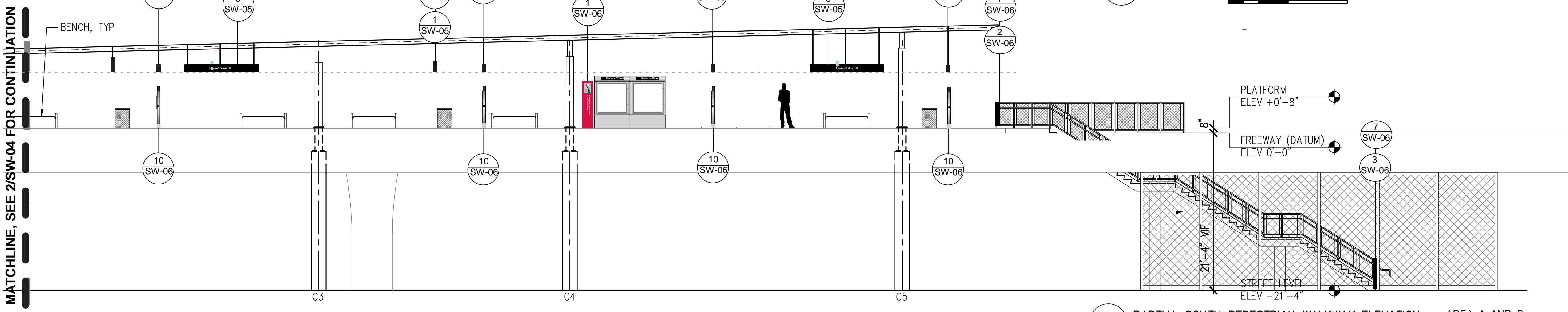
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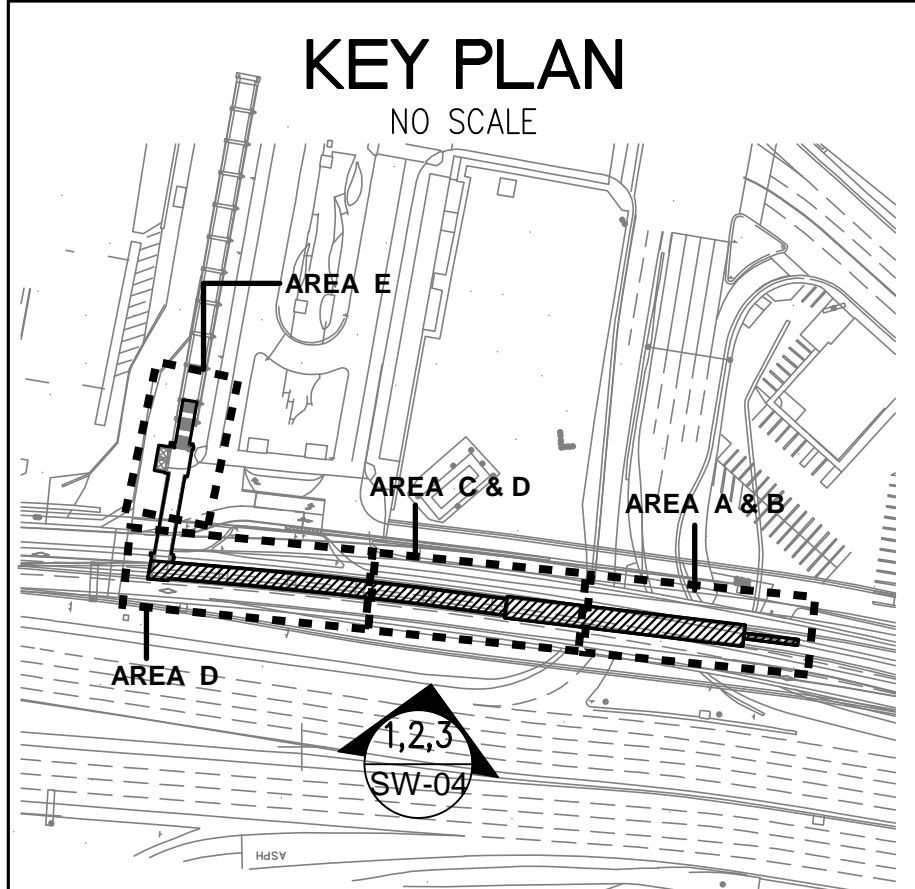
1 PARTIAL SOUTH PEDESTRIAN WALKWAY ELEVATION - AREA D
1/8"=1'-0" 0 4' 8' 16'



2 PARTIAL SOUTH PEDESTRIAN WALKWAY ELEVATION - AREA C AND D
1/8"=1'-0" 0 4' 8' 16'



3 PARTIAL SOUTH PEDESTRIAN WALKWAY ELEVATION - AREA A AND B
1/8"=1'-0" 0 4' 8' 16'



NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				Issue For Bid
10/15/10				Advanced Conceptual Engineering

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1055 West 7th Street, Suite 3150
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DESIGNED M. PETERSON
DRAWN BY R. HU
CHECKED M. PETERSON
DATE 6/18/2010

M
Metro

LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

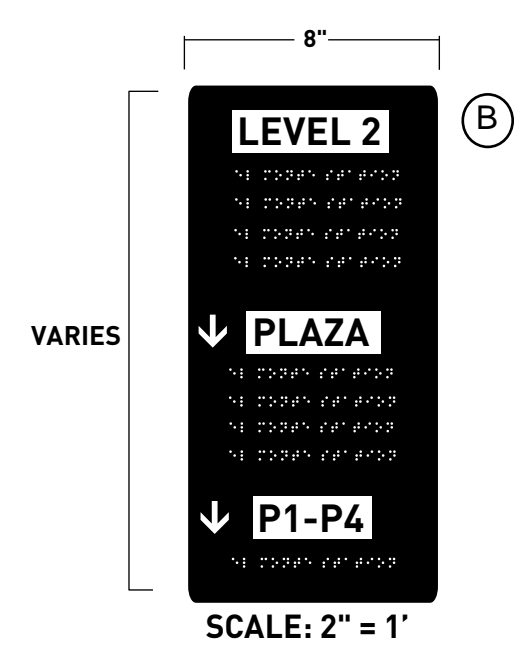
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

EXTERIOR ELEVATIONS

FILE/JOB NUMBER C0970	SCALE 1/8"=1'-0"
DWG. NO. SW-04	SHEET 75 OF 80

Drawing Name: I:\projects\401453\401453_0001\Drawings\AREA A-B.dwg Plotter: Jun 09, 2010 - 8:59am by: c0970

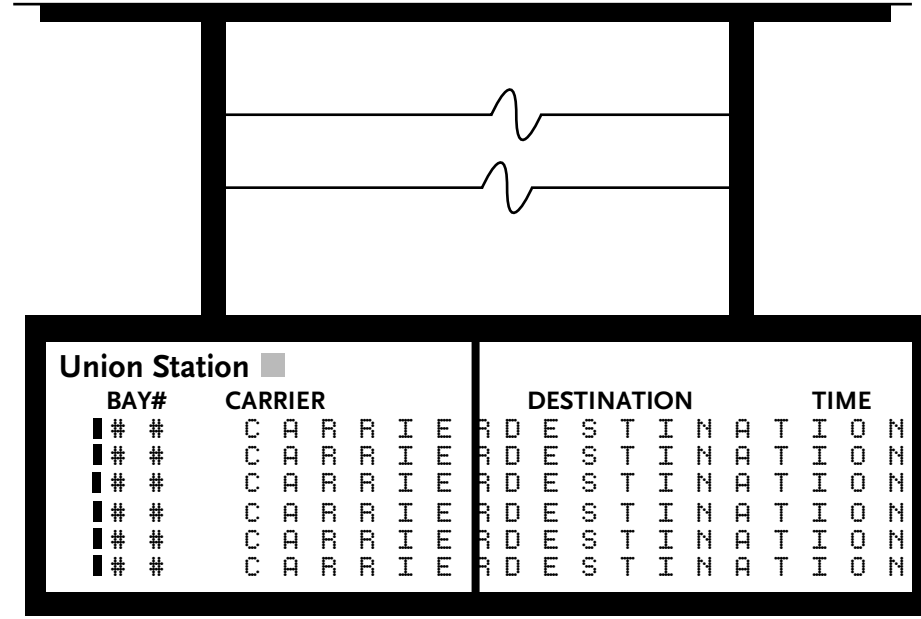


SCALE: 2" = 1'
1/8" ALUMINUM BACKING PLATE WITH TACTILE/BRAILLE SIGNS TO BE TRANSGRAFIX MATERIAL BY VISUAL MARKING SYSTEMS (VMS)

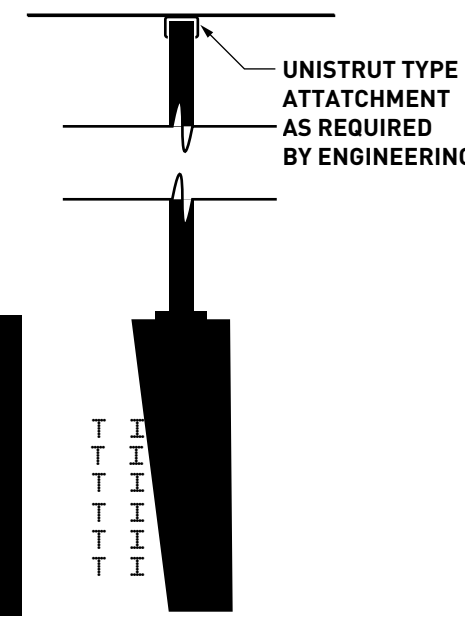


SCALE: 1/2" = 1'

12 UPPER LEVEL SIGN ELEVATIONS
SW-05



TYPICAL FRONT VIEW LCD SCREENS



TYPICAL SIDE VIEW SINGLE SIDED

SIMILAR EXISTING INSTALLATION FOR INFORMATION ONLY:



NOTE: PAGES CHANGE TO DISPLAY TRANSIT FOR ALL CARRIERS INCLUDING AMTRAK, METROLINK, METRO RAIL, METRO BUS, ALL MUNIS SERVICING BUS PLAZA, LAX FLYAWAY, ETC.

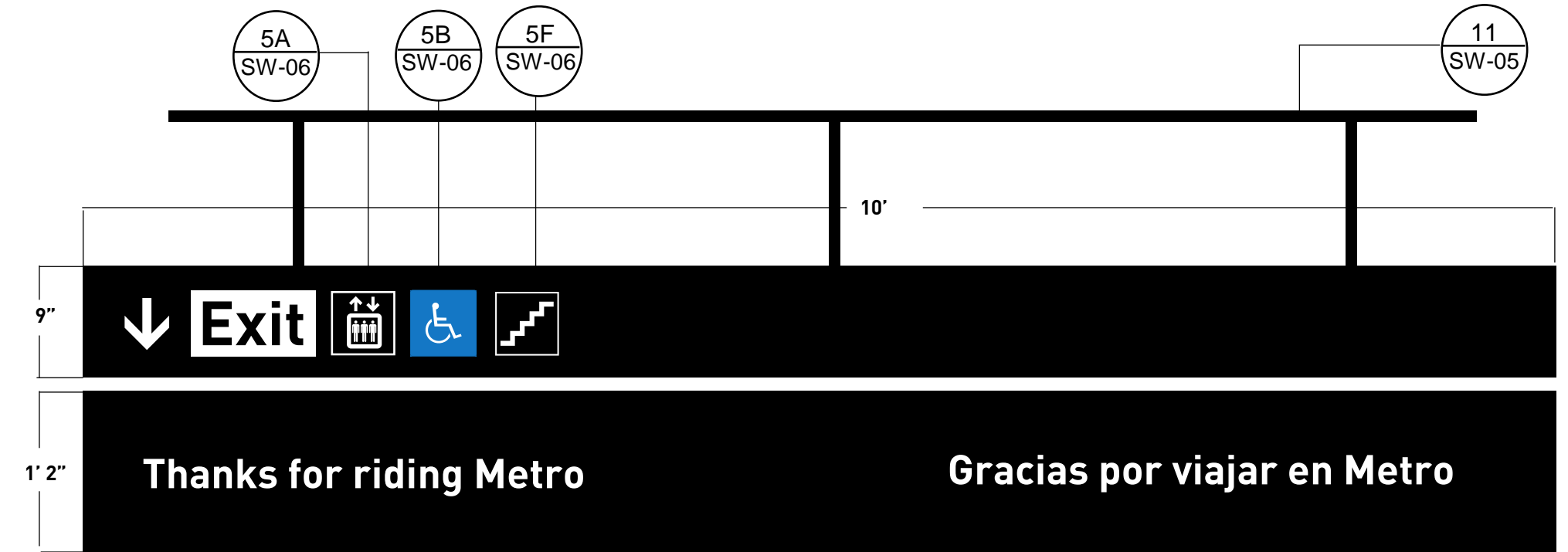
7 SIGN ELEVATION
SCALE: 1/2" = 1'



8 SIGN ELEVATION
SCALE: 1" = 1'



9 SIGN ELEVATION
SCALE: 1" = 1'



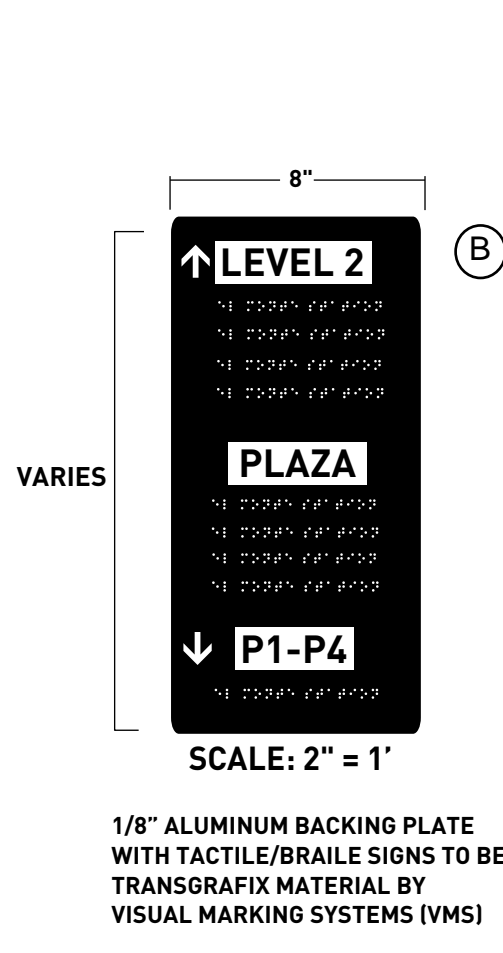
1 SIGN ELEVATION
SCALE: 1" = 1'



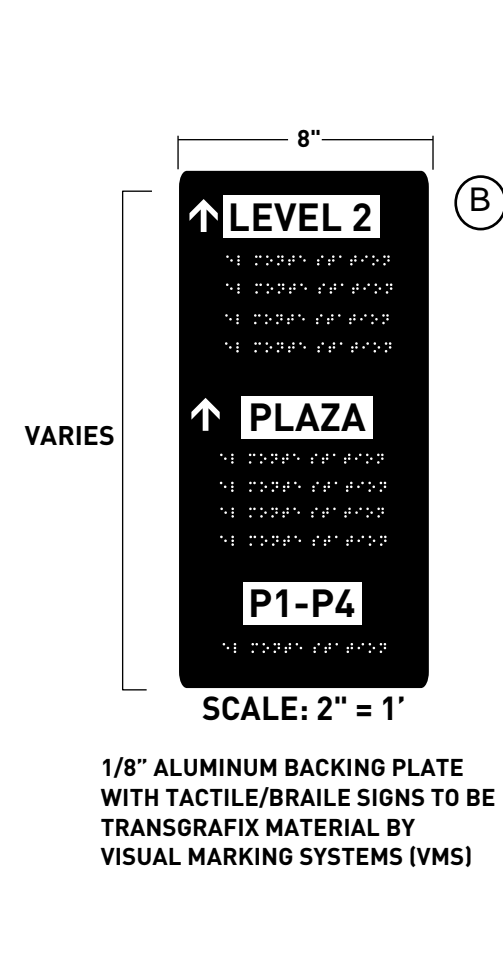
2 SIGN ELEVATION
SCALE: 1" = 1'



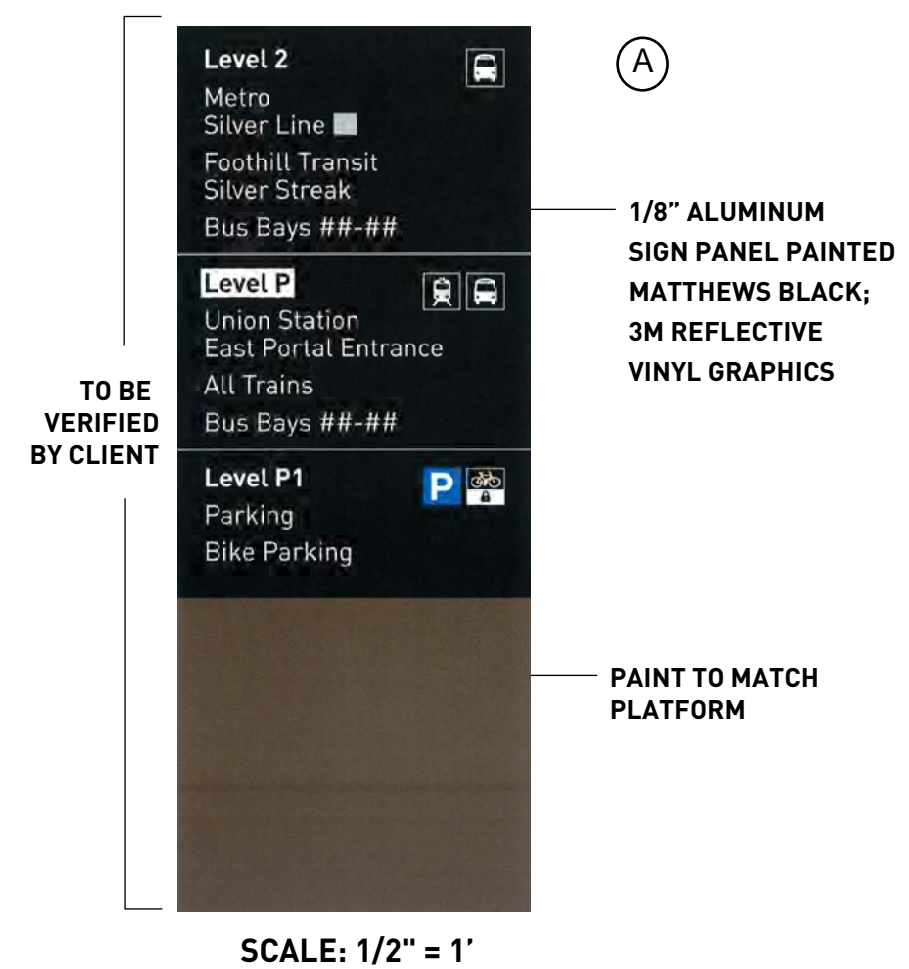
3 SIGN ELEVATION
SCALE: 1" = 1'



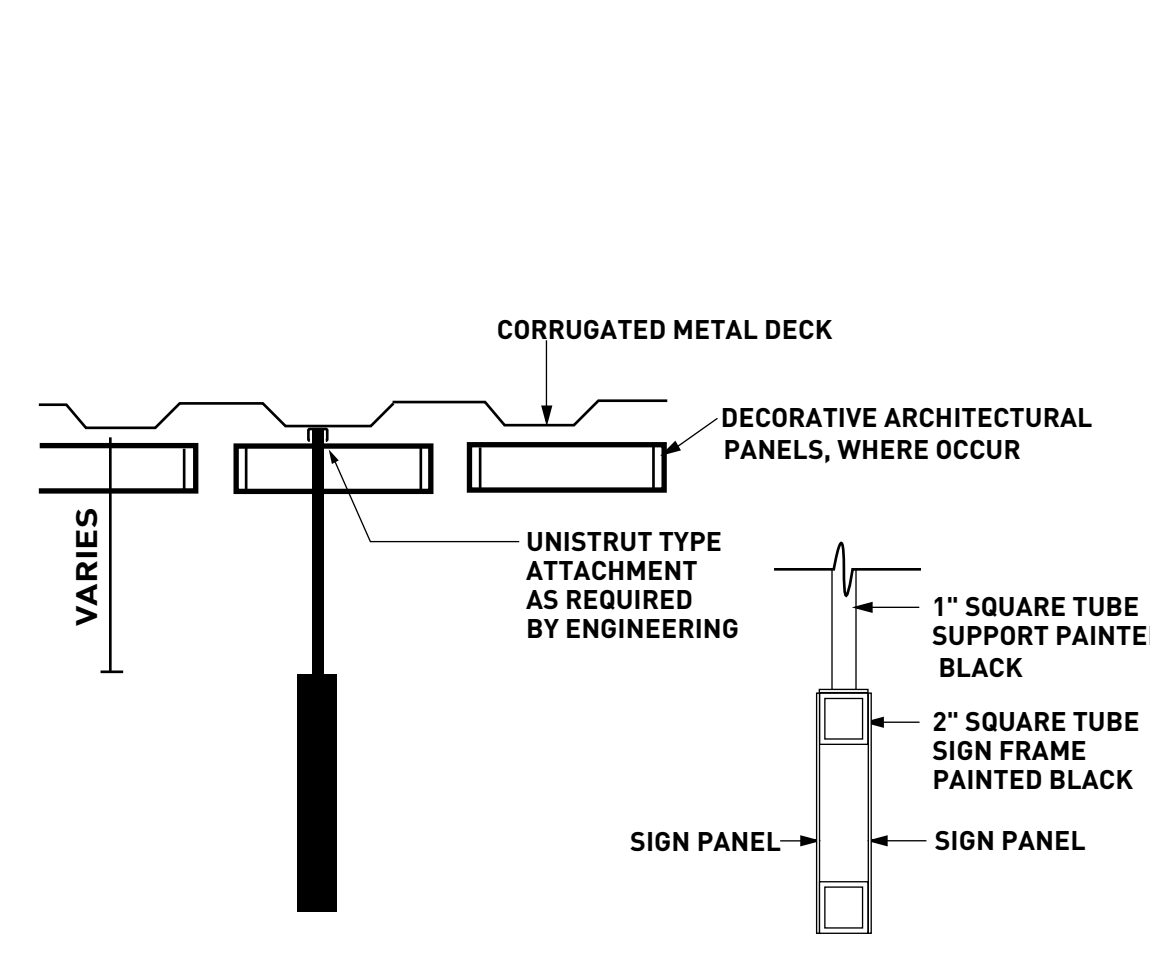
13 PLAZA LEVEL SIGN ELEVATION
SW-05



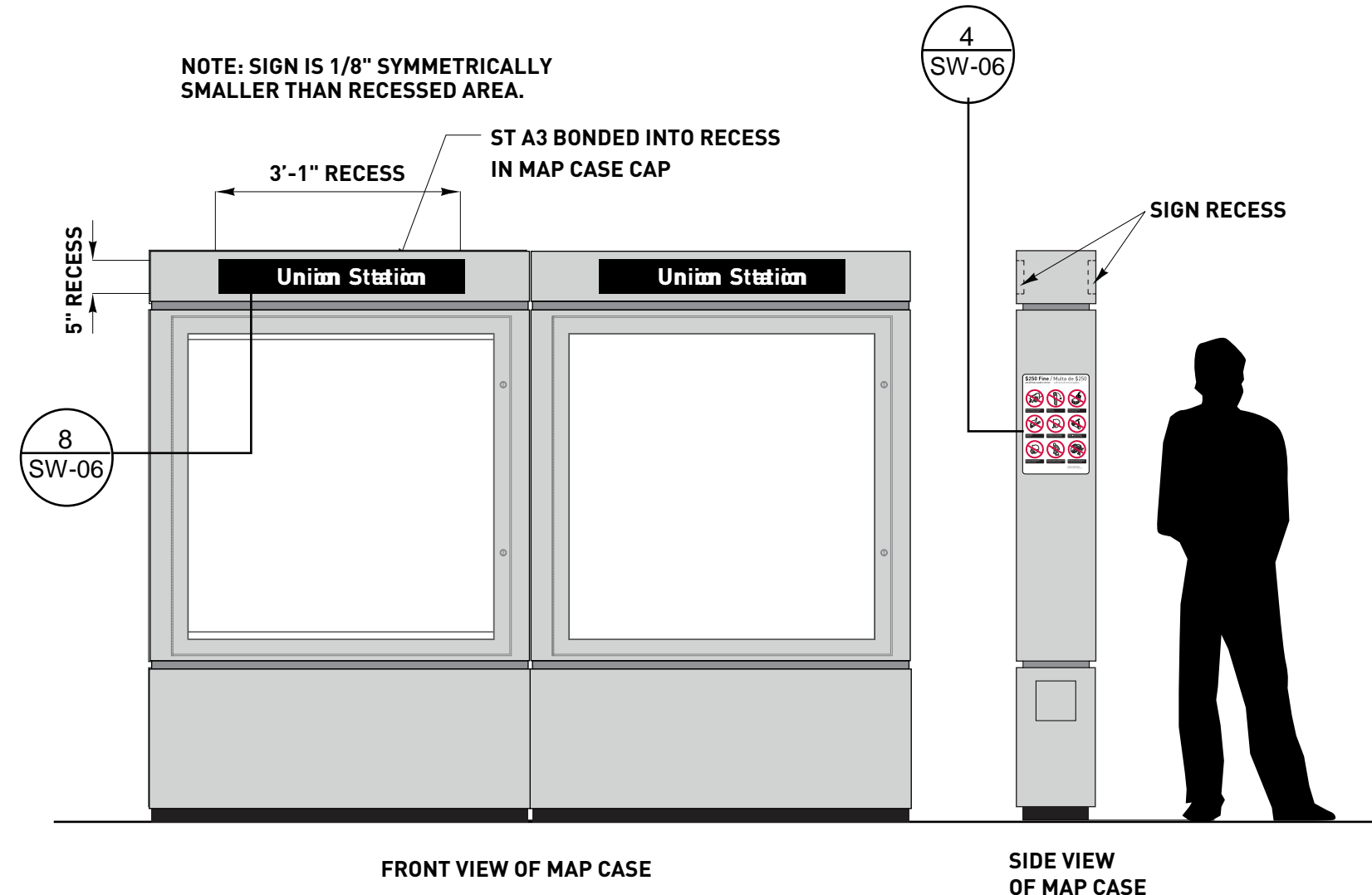
14 PARKING LEVEL SIGN ELEVATION
SW-05



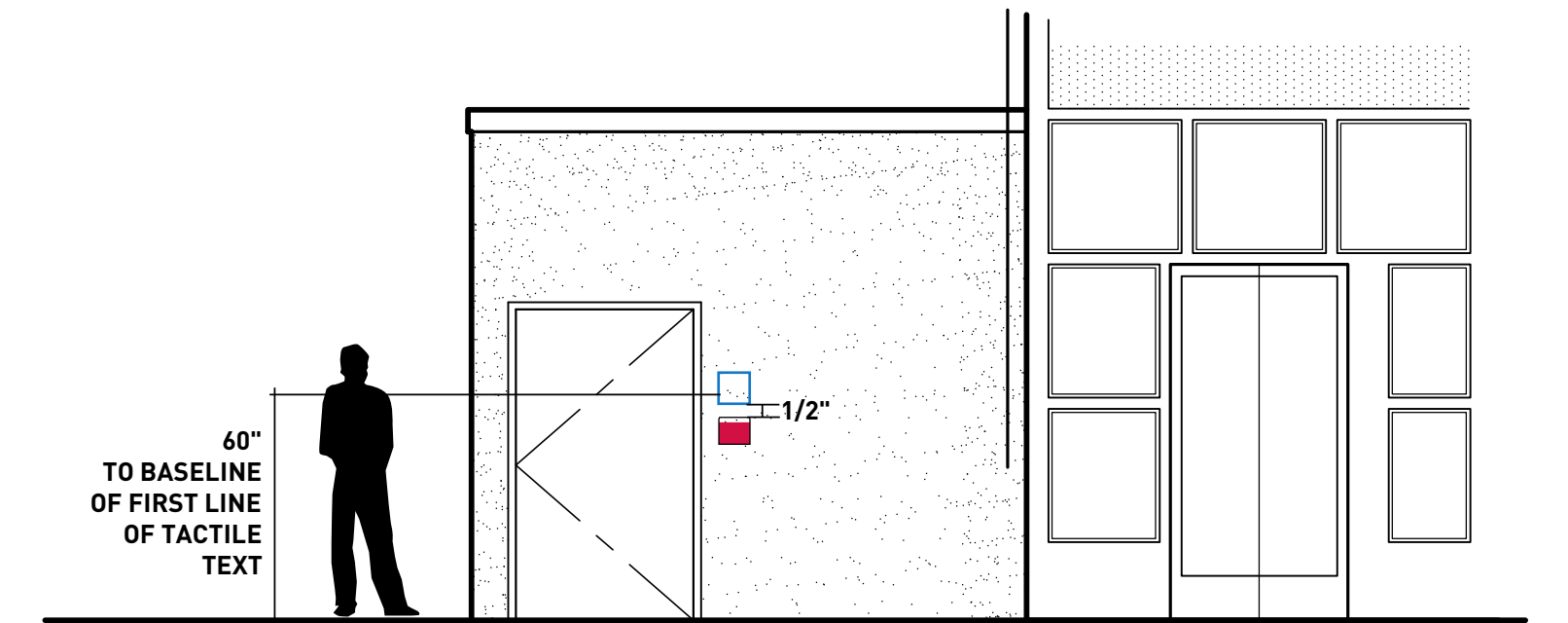
SCALE: 1/2" = 1'



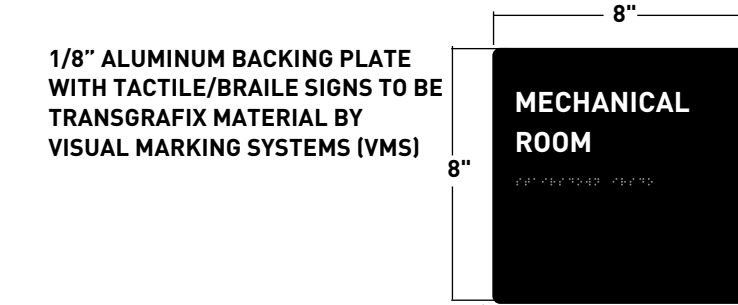
11 SIGN OVERHANG ELEVATION AND SECTION
SCALE: 3/4" = 1'



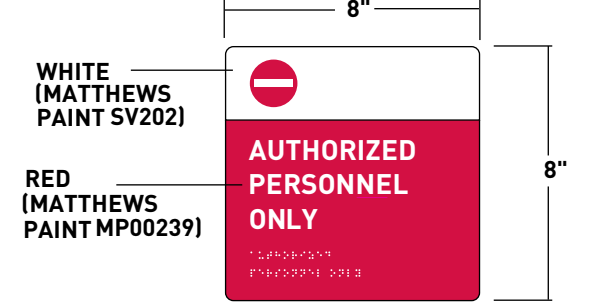
10 MAP CASE ELEVATION
SCALE: 1/2" = 1'



4 SIGN LOCATION FOR ELEVATOR MACHINE ROOM
SCALE: 1/4" = 1'



6 SIGN ELEVATION
SCALE: 2" = 1'



5 SIGN ELEVATION
SCALE: 2" = 1'

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
	05/07/12			Issue For Bid
	10/15/10			Advanced Conceptual Engineering

STV
STV Incorporated
1055 West 7th Street, Suite 3150
Los Angeles, CA 90017
www.stvinc.com

DESIGNED M. PETERSON
DRAWN BY R. HU
CHECKED M. PETERSON
DATE 10/15/2010

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

UNION/PATSAOURAS PLAZA BUSWAY STATION DESIGN BUILD CONTRACT No. C0970
SIGN ELEVATIONS AND DETAILS

FILE/NOB NUMBER C0970
SCALE 1" = 20'
DWG. NO. SW-05
SHEET 76 OF 80

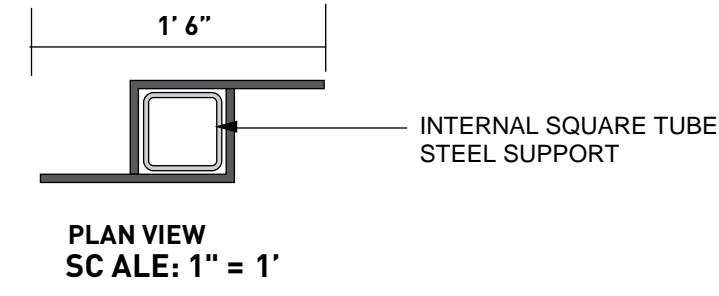
Drawing Name: I:\projects\401453\401453_001\Drawings\ARE\4-014.dwg Plotter: Jun 08, 2010 8:00am by: cossam

NOTE: SIGN IS DOUBLE SIDED.
BUS BAY NO. IS ALWAYS AT CURB SIDE

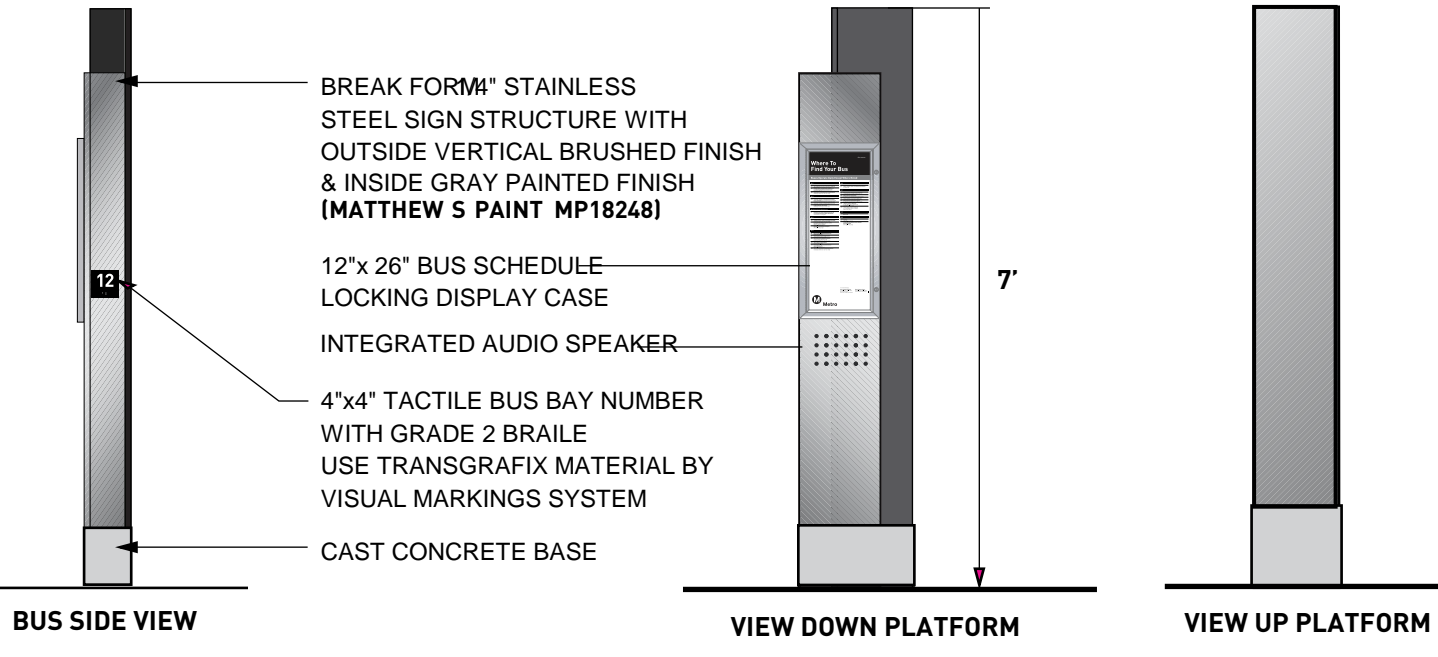
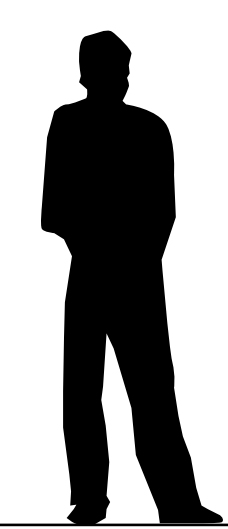


DAKTRONICS GALAXY®
AF-6120 DOUBLE SIDED
DISPLAY MODEL
#AF-6120-16x96-12-A-DF
OR SIMILAR WITH AMBER LED
SIGN CABINET TO BE
PAINTED BLACK
(MATTHEWS PAINT SV923)

9 SIGN ELEVATION
SCALE: 1" = 1'



PLAN VIEW
SCALE: 1" = 1'



BUS SIDE VIEW

VIEW DOWN PLATFORM

VIEW UP PLATFORM

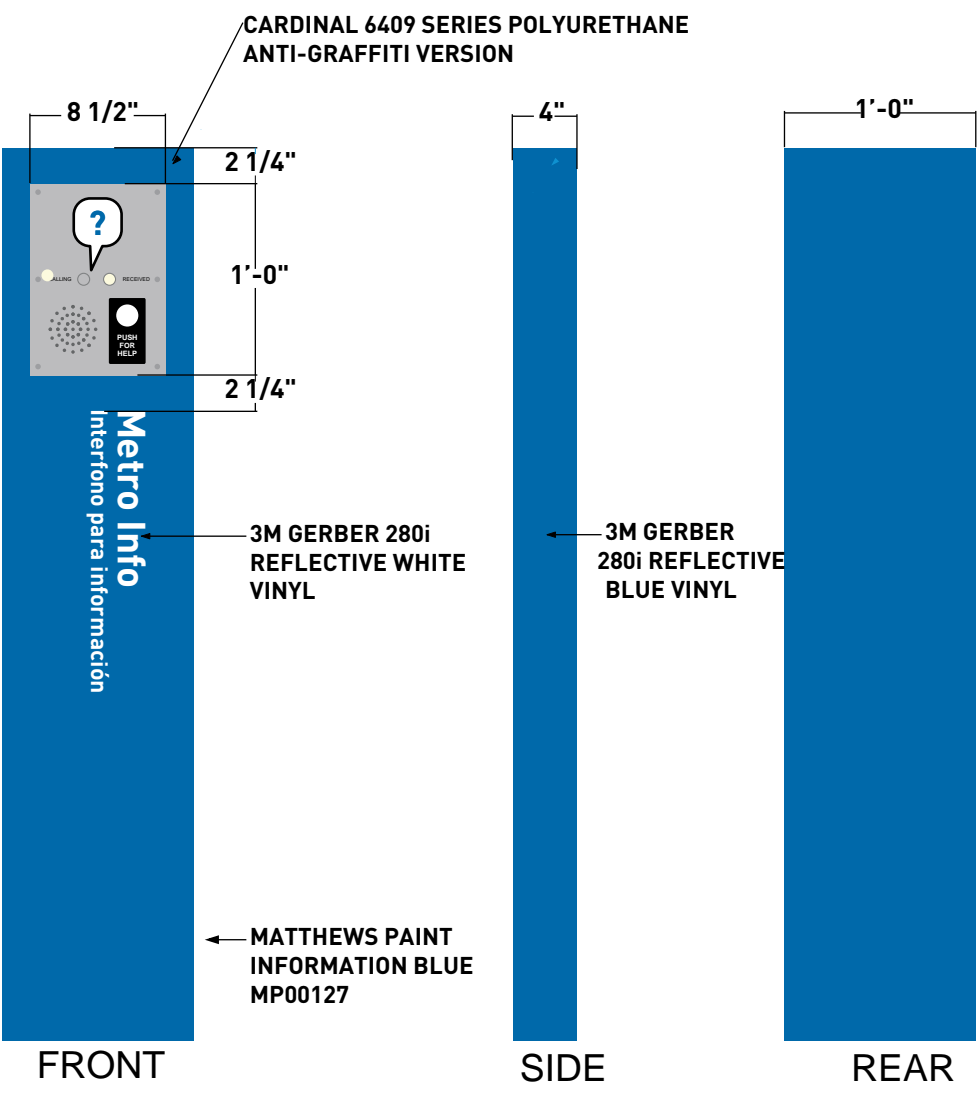
BREAK FORM™ STAINLESS
STEEL SIGN STRUCTURE WITH
OUTSIDE VERTICAL BRUSHED FINISH
& INSIDE GRAY PAINTED FINISH
(MATTHEWS PAINT MP18248)

12"x 26" BUS SCHEDULE
LOCKING DISPLAY CASE

INTEGRATED AUDIO SPEAKER

4"x4" TACTILE BUS BAY NUMBER
WITH GRADE 2 BRAILLE
USE TRANSGRAFIX MATERIAL BY
VISUAL MARKINGS SYSTEM

CAST CONCRETE BASE

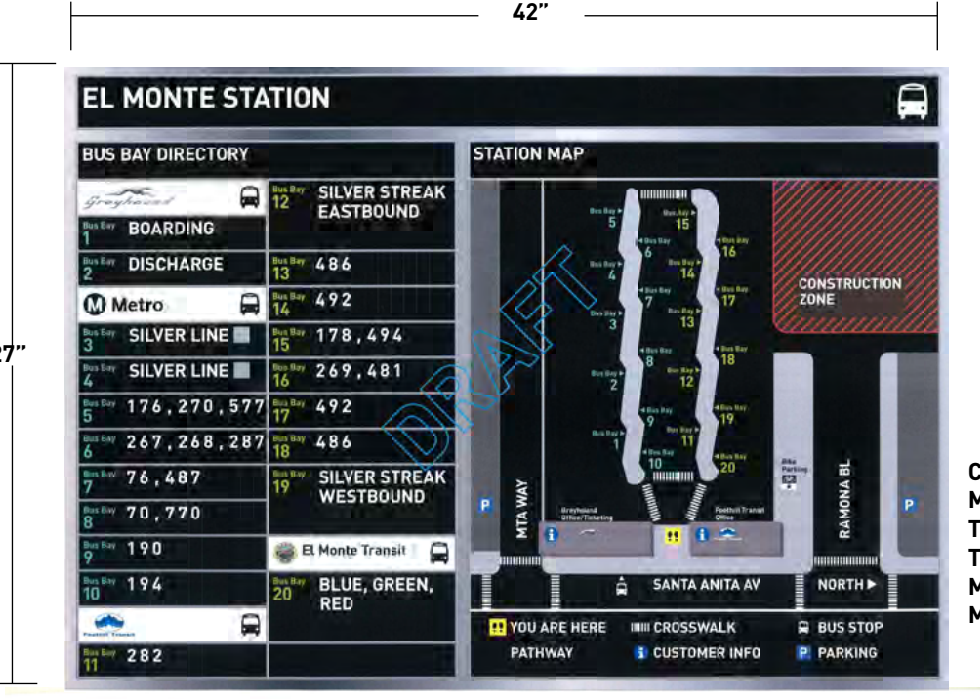


FRONT

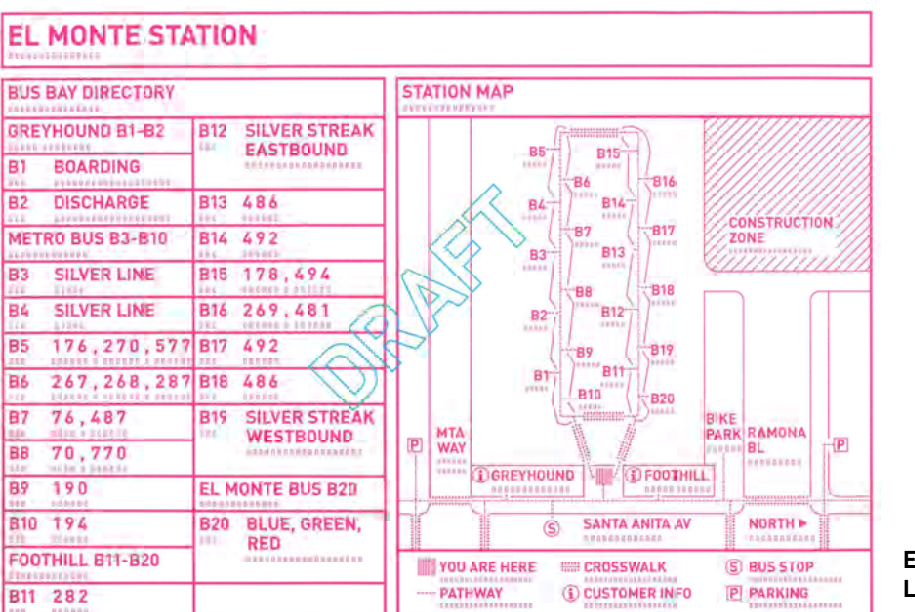
SIDE

REAR

6 P-TEL ELEVATION
SCALE: 1" = 1'



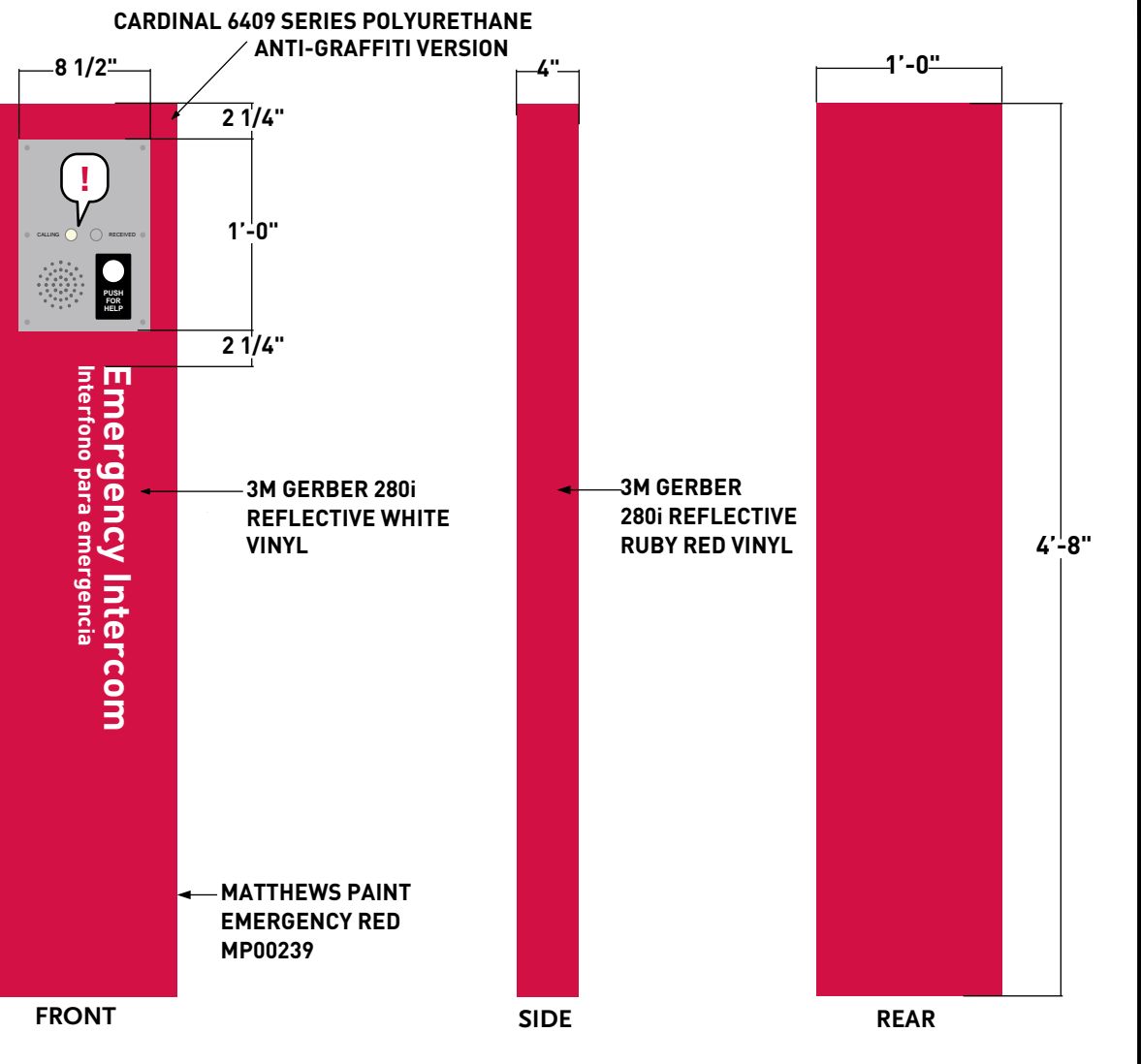
COMPOSITE SIGN WITH
METAL BACKING PLATE.
TACTILE/BRAILLE SIGNS
TO BE TRANSGRAFIX
MATERIAL BY VISUAL
MARKING SYSTEMS (VMS)



EMBOSSED BRAILLE
LETTERING

NOTE: FINAL DESIGN, SIZE, AND PLACEMENT LOCATION TBD BY FIELD

3 TACTILE BRAILLE DIRECTORY MAP
SCALE: 1" = 1'



FRONT

SIDE

REAR

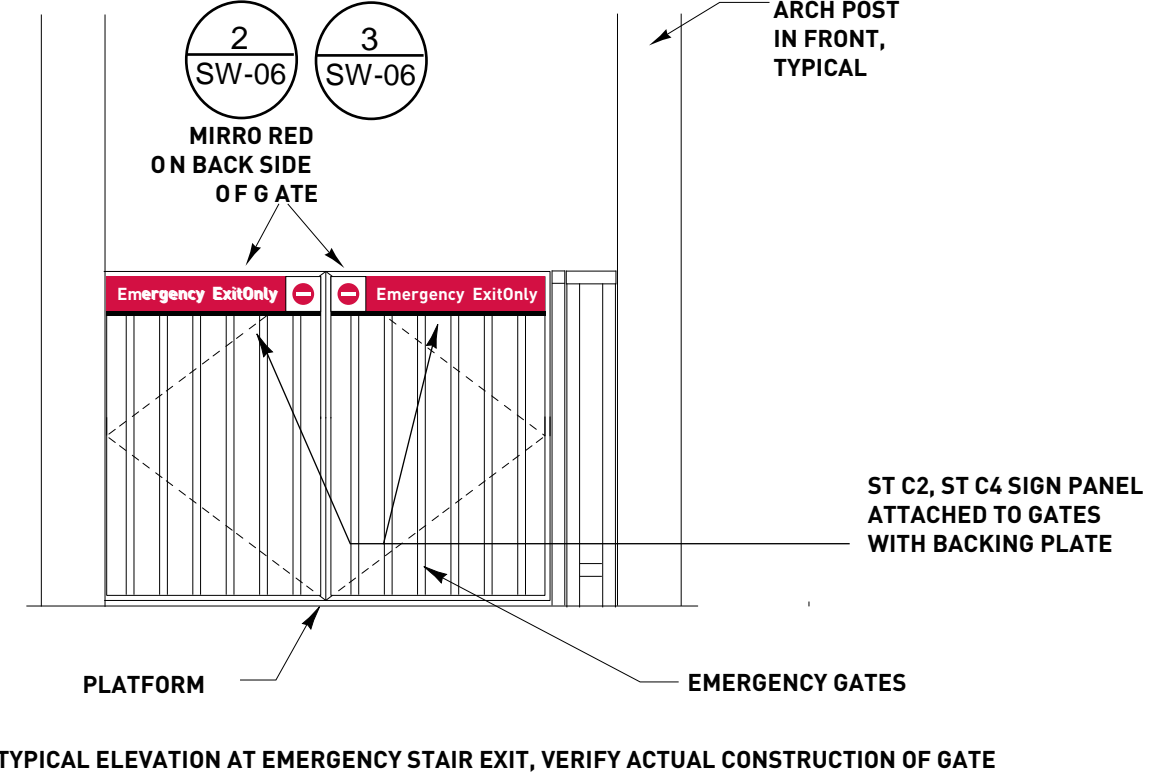
1 E-TEL ELEVATION
SCALE: 1" = 1'

10 SIGN ELEVATION
SCALE: 1/2" = 1'



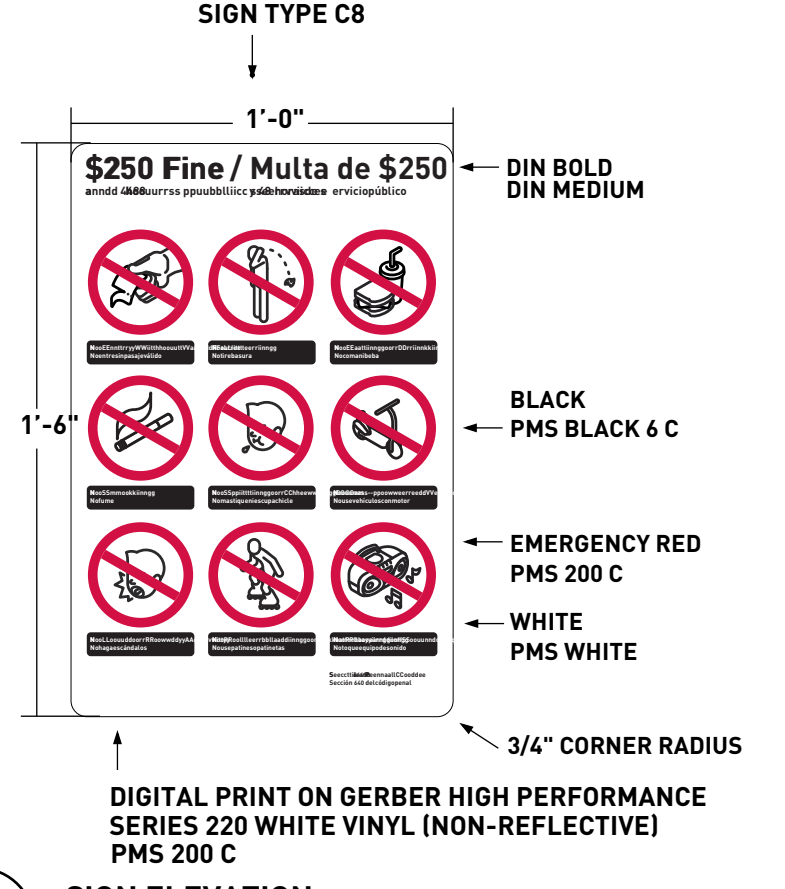
NOTE: SIGNS, MADE OF THERMOPLASTIC
MATERIAL APPEAR ON PAVING AND
ROADWAY, NOT BUS PLATFORM

11 SIGN TILE
SCALE: 2" = 1'

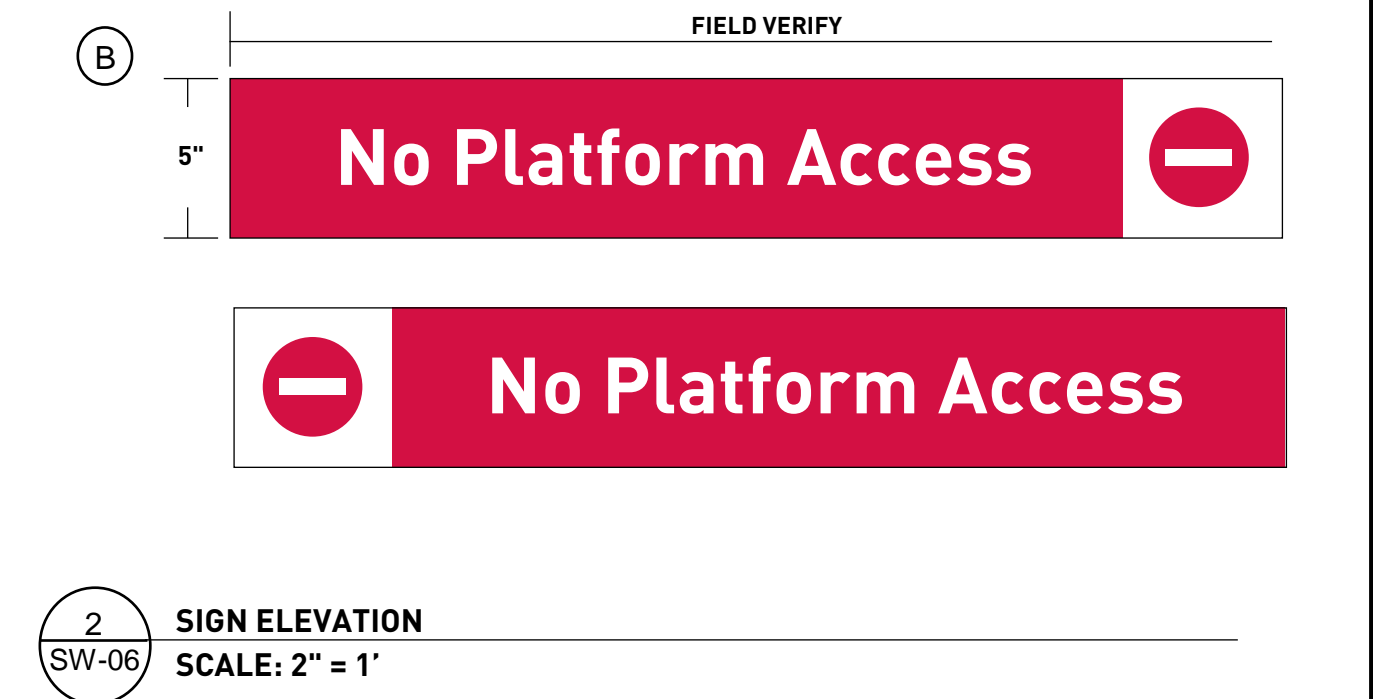


TYPICAL ELEVATION AT EMERGENCY STAIR EXIT, VERIFY ACTUAL CONSTRUCTION OF GATE

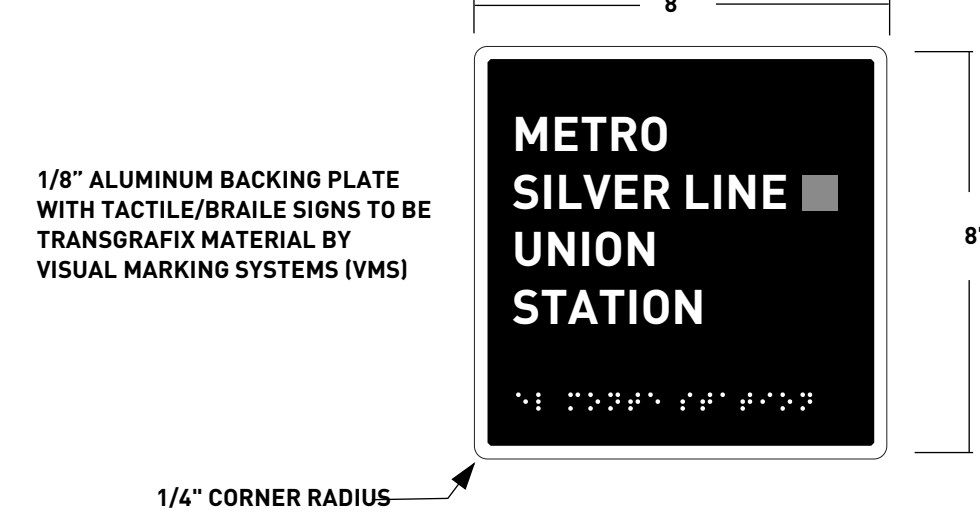
7 LOCATION ELEVATION - EMERGENCY EXIT GATE
SCALE: 1/2" = 1'



4 SIGN ELEVATION
SCALE: 2" = 1'



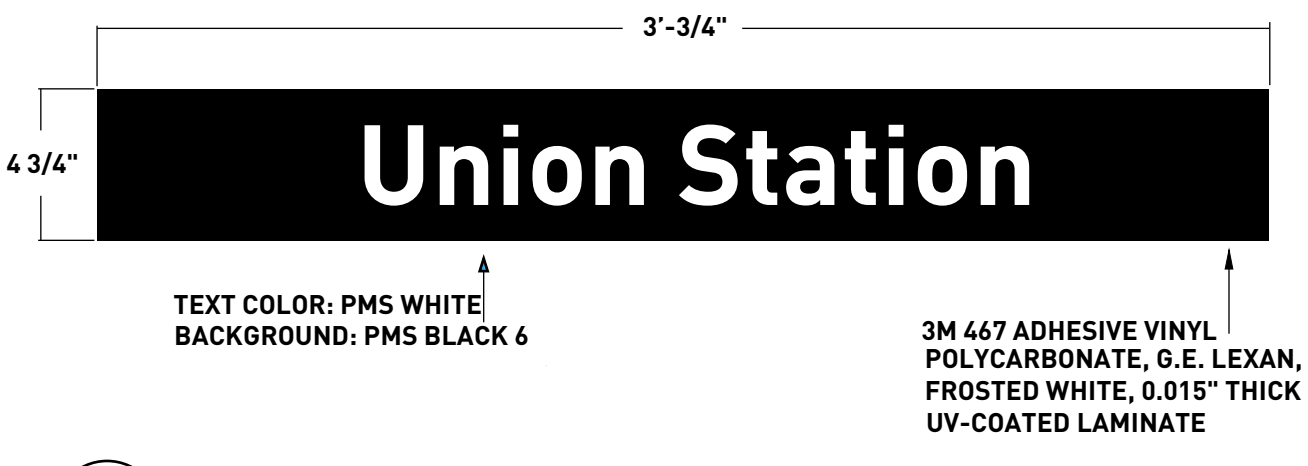
2 SIGN ELEVATION
SCALE: 2" = 1'



1/8" ALUMINUM BACKING PLATE
WITH TACTILE/BRAILLE SIGNS TO BE
TRANSGRAFIX MATERIAL BY
VISUAL MARKINGS SYSTEMS (VMS)

1/4" CORNER RADIUS

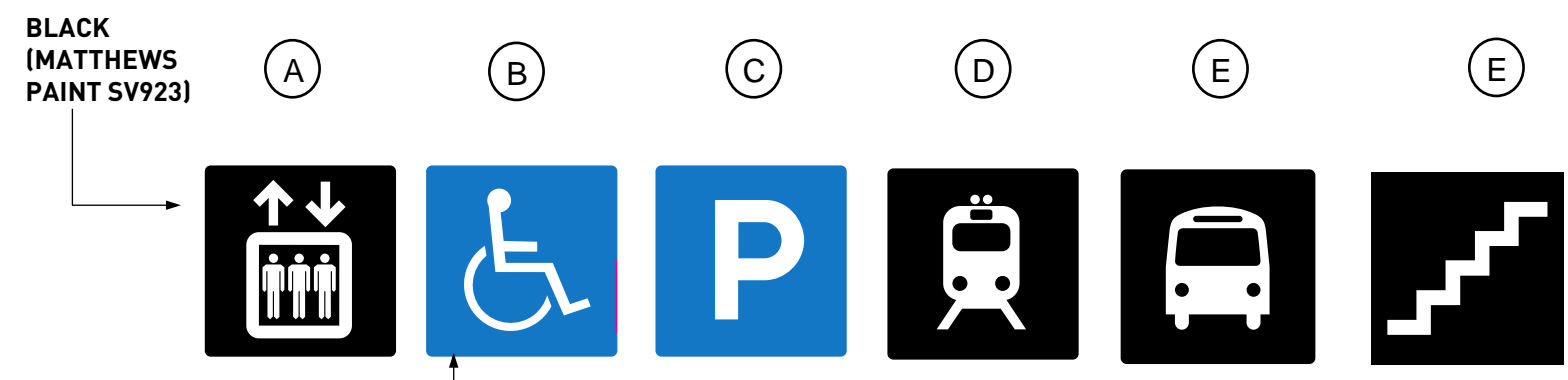
12 TACTILE SIGN ELEVATIONS
SCALE: 3" = 1'



TEXT COLOR: PMS WHITE
BACKGROUND: PMS BLACK 6

3M 467 ADHESIVE VINYL
POLYCARBONATE, G.E. LEXAN,
FROSTED WHITE, 0.015" THICK
UV-COATED LAMINATE

8 SIGN ELEVATION
SCALE: 2" = 1'



ADA BLUE (MATTHEWS PAINT MP00366)
GRAPHIC: WHITE (MATTHEWS PAINT SV202)
SATIN CLEAR SEALER (MATTHEWS 42-228)

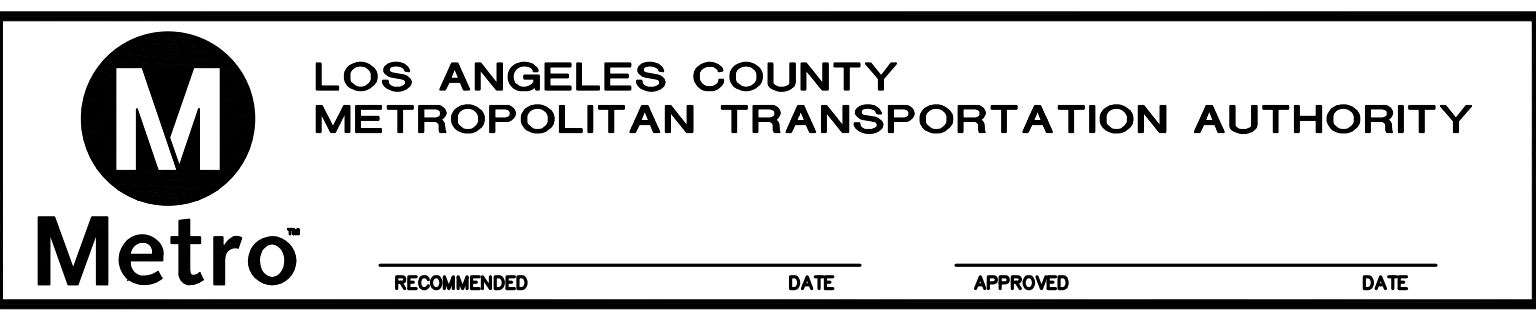
NOTE: SIZE VARIES BY LOCATION
NOTE: ROUNDED CORNERS USED ONLY IN 8"x8"
STAND ALONE SIGNS. ALL EMBEDDED ICONS
SHOULD HAVE SQUARE ANGLES

5 SIGN ELEVATION
SCALE: 4" = 1'

REV.	DATE	BY	APP.	DESCRIPTION
	05/07/12			Issue For Bid
	10/15/10			Advanced Conceptual Engineering

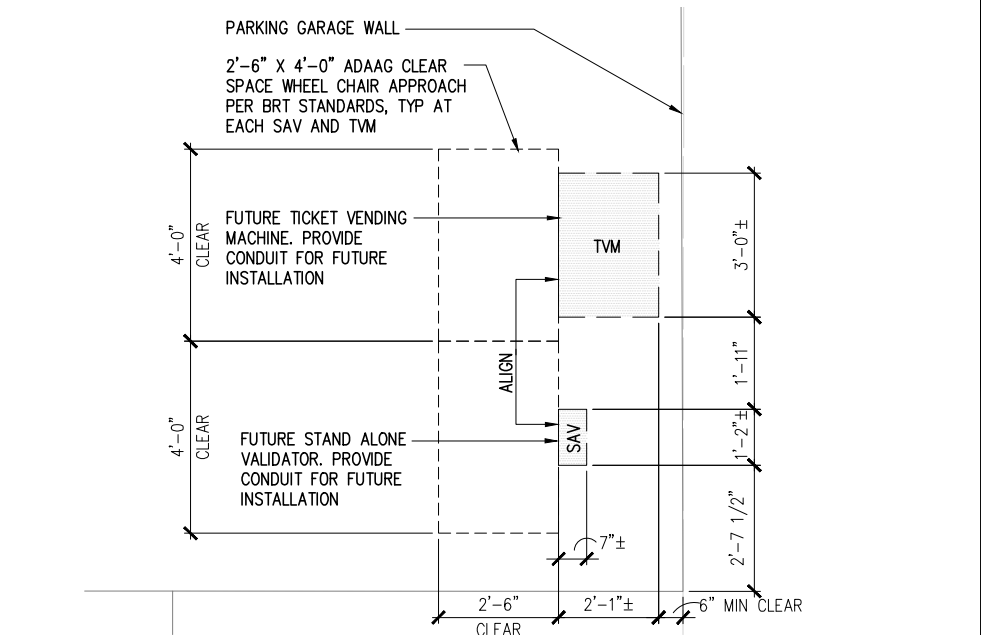
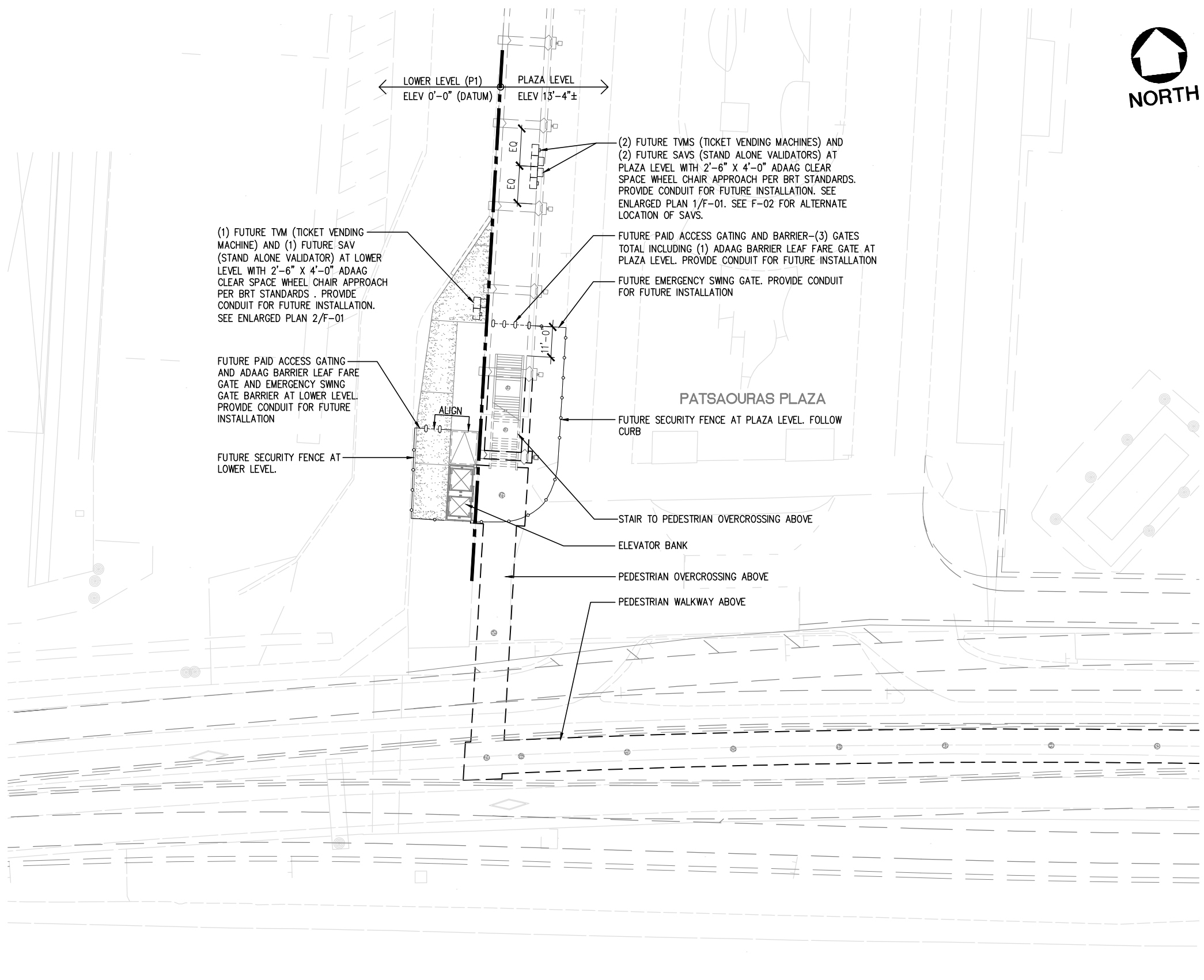


DESIGNED	M. PETERSON
DRAWN BY	R. HU
CHECKED	M. PETERSON
DATE	10/15/2010

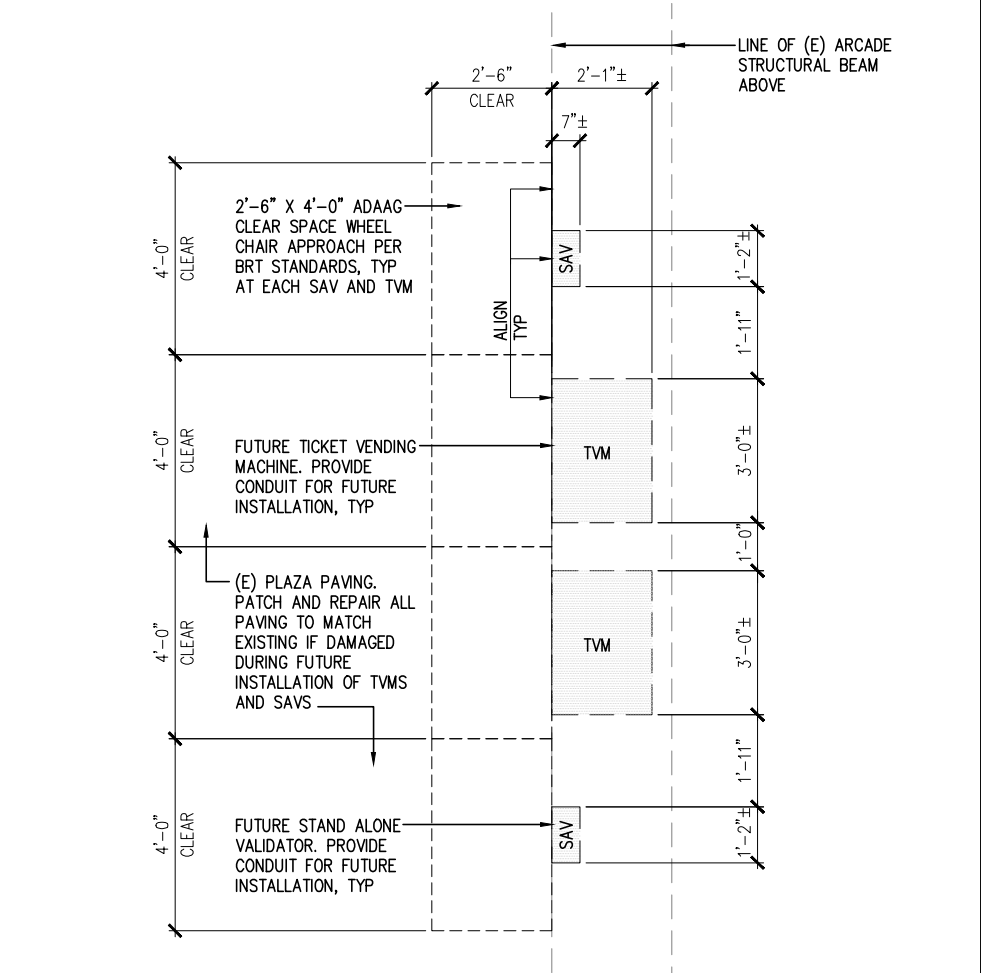


UNION/PATSAOURAS PLAZA BUSWAY STATION DESIGN BUILD CONTRACT C0970	
SIGN ELEVATIONS AND DETAILS	

FILE/JOB NUMBER	C0970
SCALE	1/8" = 1'-0"
DWG. NO.	SW-06
SHEET	77 OF 80



2 ENLARGED PLAN AT LOWER LEVEL
F-01 1/2"=1'-0" 0 1' 2' 4'



1 ENLARGED PLAN AT PLAZA LEVEL
F-01 1/2"=1'-0" 0 1' 2' 4'

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

3 UNIVERSAL FARE SYSTEM AND GATING
PLAN AT PLAZA AND LOWER LEVEL
F-01 1"=20' 0 20'

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				ISSUED FOR BID
10/15/10				ADVANCED CONCEPTUAL ENGINEERING

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DESIGNED R.FREEZE
DRAWN BY S.P. CASANO
CHECKED J.PONZIO
DATE 4/8/2011

M
Metro

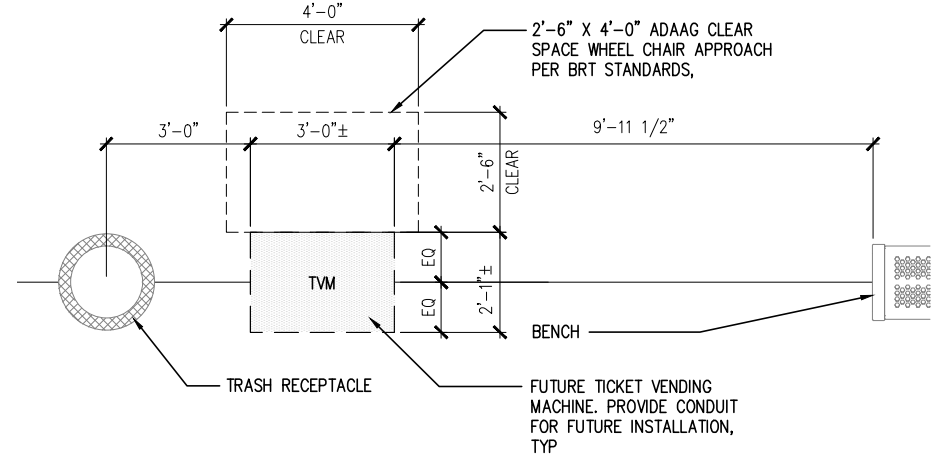
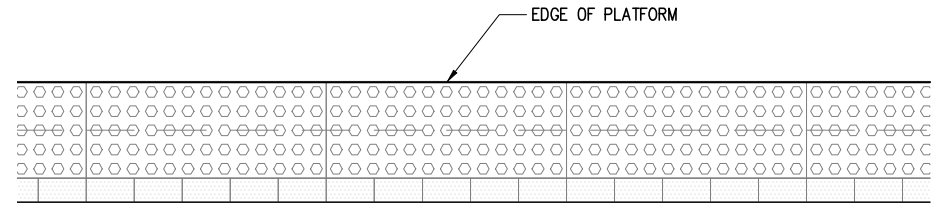
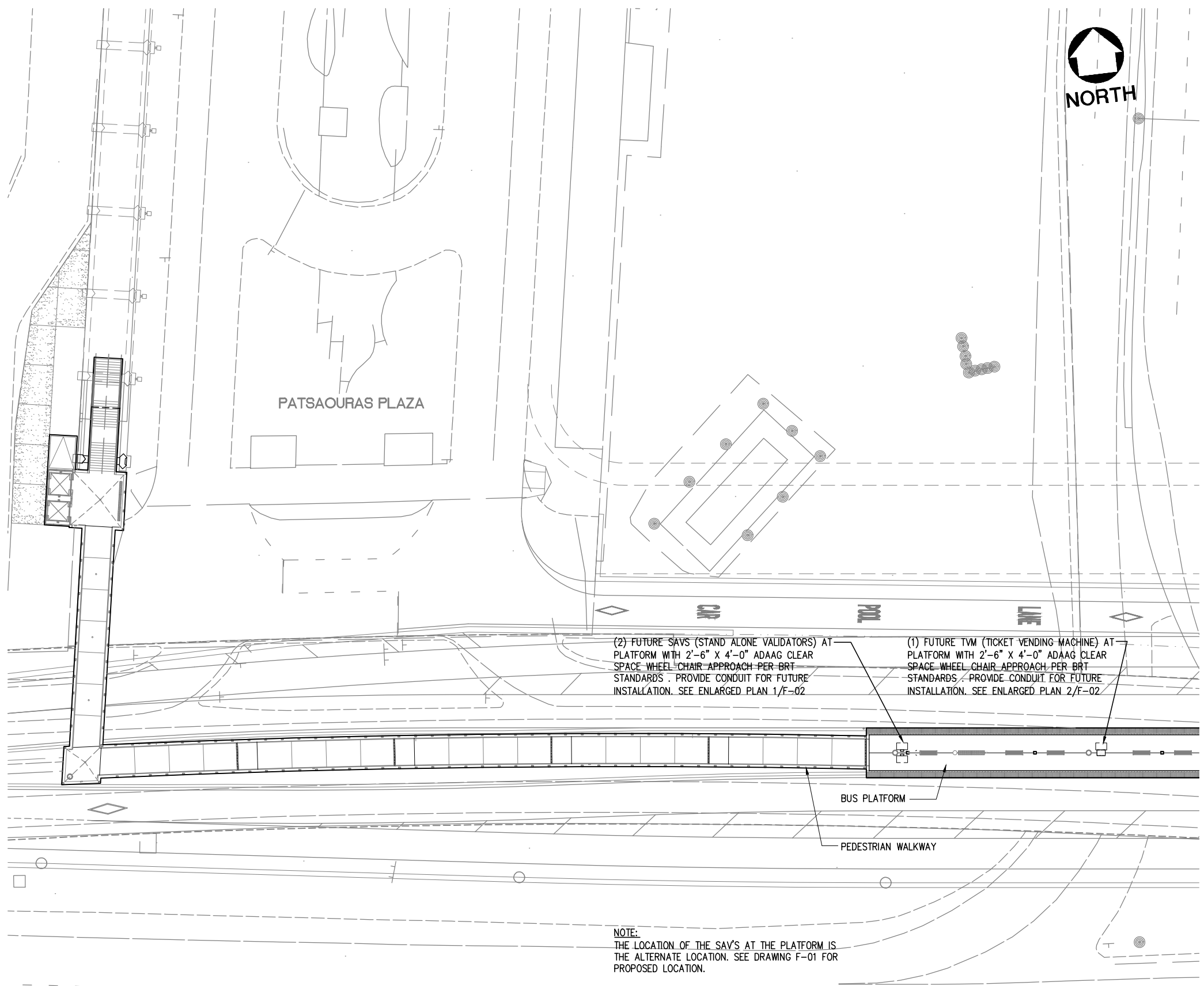
LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

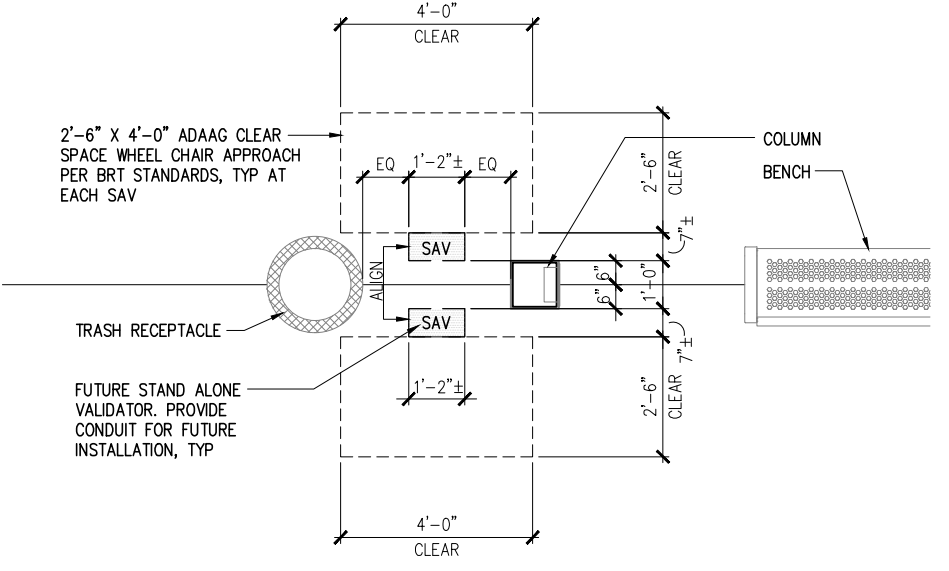
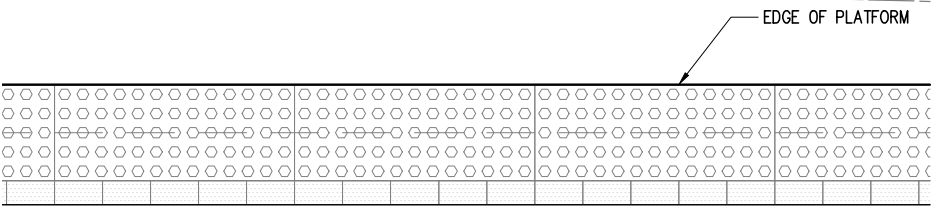
UNIVERSAL FARE SYSTEM AND GATING PLAN AT PLAZA AND LOWER LEVEL

FILE/JOB NUMBER C0970
SCALE AS NOTED
DWG. NO. F-01
SHEET 78 OF 80

Drawing Name: I:\Projects\4014563\4014563_0001\Drawings\ARC\F-01.dwg Plotter: Apr 25, 2012 - 3:08pm By: parterent



2 ENLARGED PLAN AT PLATFORM-ALTERNATE TVM
1/2"=1'-0" 0 1' 2' 4'



1 ENLARGED PLAN AT PLATFORM-ALTERNATE SAVS
1/2"=1'-0" 0 1' 2' 4'

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

3 UNIVERSAL FARE SYSTEM PLAN AT PLATFORM-ALTERNATE
1"=20' 0 20'

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				ISSUED FOR BID
10/15/10				ADVANCED CONCEPTUAL ENGINEERING

STV
STV Incorporated
1055 West 7th Street, Suite 3150
Los Angeles, CA 90017
www.stvinc.com

DESIGNED	R.FREEZE
DRAWN BY	S.P. CASANO
CHECKED	J.PONZIO
DATE	10/15/2010

Metro

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

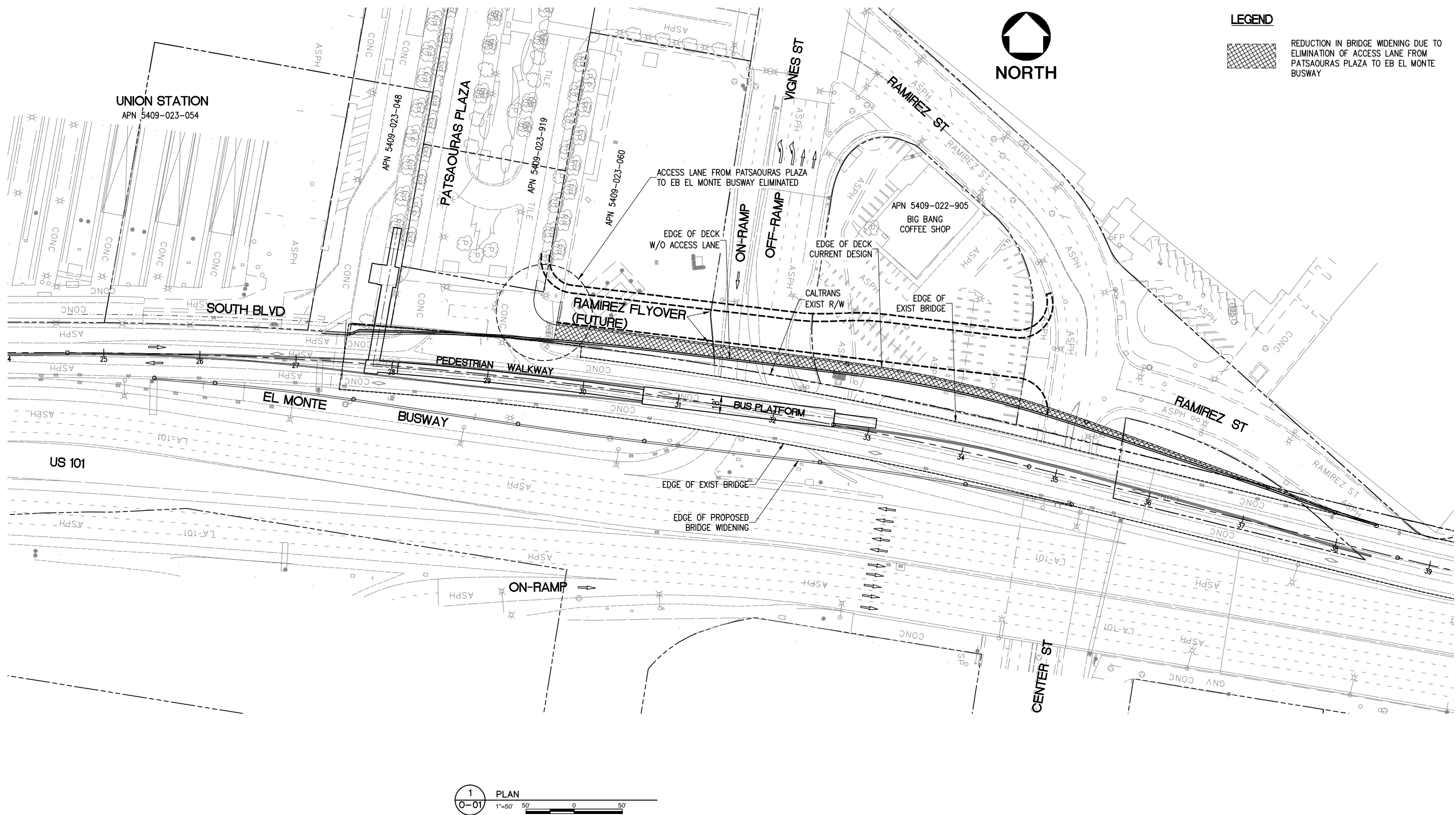
RECOMMENDED DATE APPROVED DATE

UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

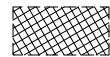
UNIVERSAL FARE SYSTEM PLAN AT PLATFORM

FILE/JOB NUMBER	C0970
SCALE	AS NOTED
DWG. NO.	F-02
SHEET	79 OF 80

Drawing Name: I:\Projects\4014563\4014563_0001\Drawings\ARC\F-02.dwg Plotter: Apr 25, 2012 3:08pm by: partent



LEGEND



REDUCTION IN BRIDGE WIDENING DUE TO ELIMINATION OF ACCESS LANE FROM PATSAOURAS PLAZA TO EB EL MONTE BUSWAY



1 PLAN
0-01 1"=50'

NOTE: IF DWG. IS NOT 22"x34", IT IS NOT FULL SIZE

REV.	DATE	BY	APP.	DESCRIPTION
05/07/12				ISSUED FOR BID
10/15/10				ADVANCED CONCEPTUAL ENGINEERING

STV
STV Incorporated
1055 West 7th Street, Suite 3150
Los Angeles, CA 90017
www.stvinc.com

DESIGNED M. SATISH
DRAWN BY M. PARTENHEIMER
CHECKED M. SATISH
DATE 4/16/2012

M LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
Metro

RECOMMENDED	DATE	APPROVED	DATE
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UNION/PATSAOURAS PLAZA BUSWAY STATION
DESIGN BUILD CONTRACT No. C0970

**BID OPTION 1
REDUCED LANES**

FILE/JOB NUMBER	C0970
SCALE	1" = 50'
DWG. NO.	OPT-01
SHEET	80 OF 80

Drawing Name: I:\Projects\4014563\4014563_0001\Drawings\GV\GP1-01.dwg Plot Date: Apr 25, 2012 3:09pm by: partamr