PARKMERCED

PHASE 1A STREET IMPROVEMENT PLANS

SAN FRANCISCO, SAN FRANCISCO COUNTY, CALIFORNIA

PROJECT DESCRIPTION

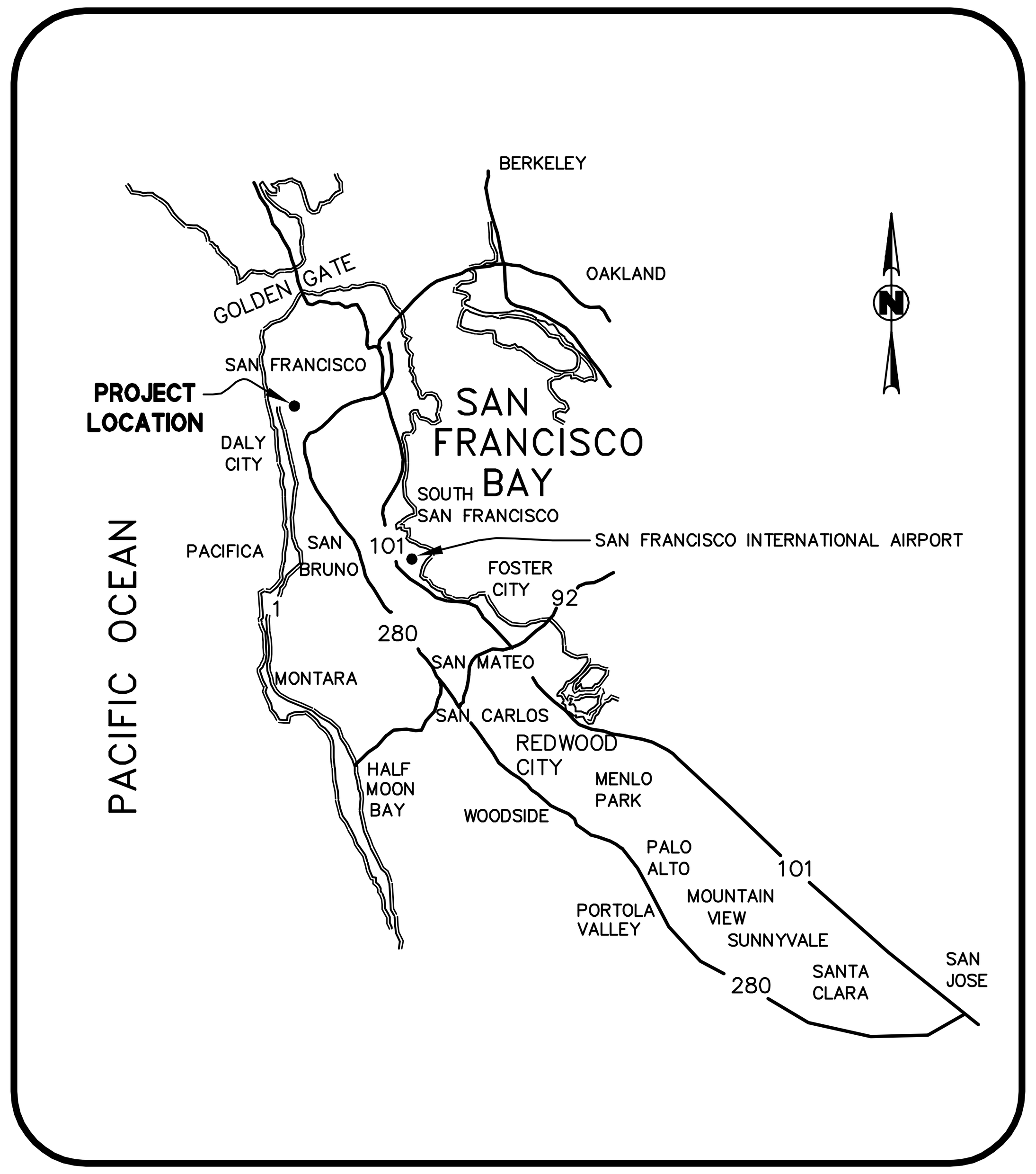
THE PROJECT IS LOCATED WITHIN THE PARKMERCED COMMUNITY IN SAN FRANCISCO, CA. THE COMPLETED PROJECT IS ENVISIONED TO BE FINISHED IN PHASES. THE SCOPE OF WORK FOR THIS PORTION OF THE STREET IMPROVEMENT PACKAGE IS THE FIRST OF MULTIPLE PERMITS NECESSARY FOR THE COMPLETE DEVELOPMENT AT PARKMERCED (SEE BELOW). THE SCOPE INCLUDES DEMOLITION OF EXISTING STREET AND UTILITIES AS WELL AS GRADING, PROPOSED UTILITIES AND STREET SIGNING AND STRIPING.

COMPLETE DEVELOPMENT

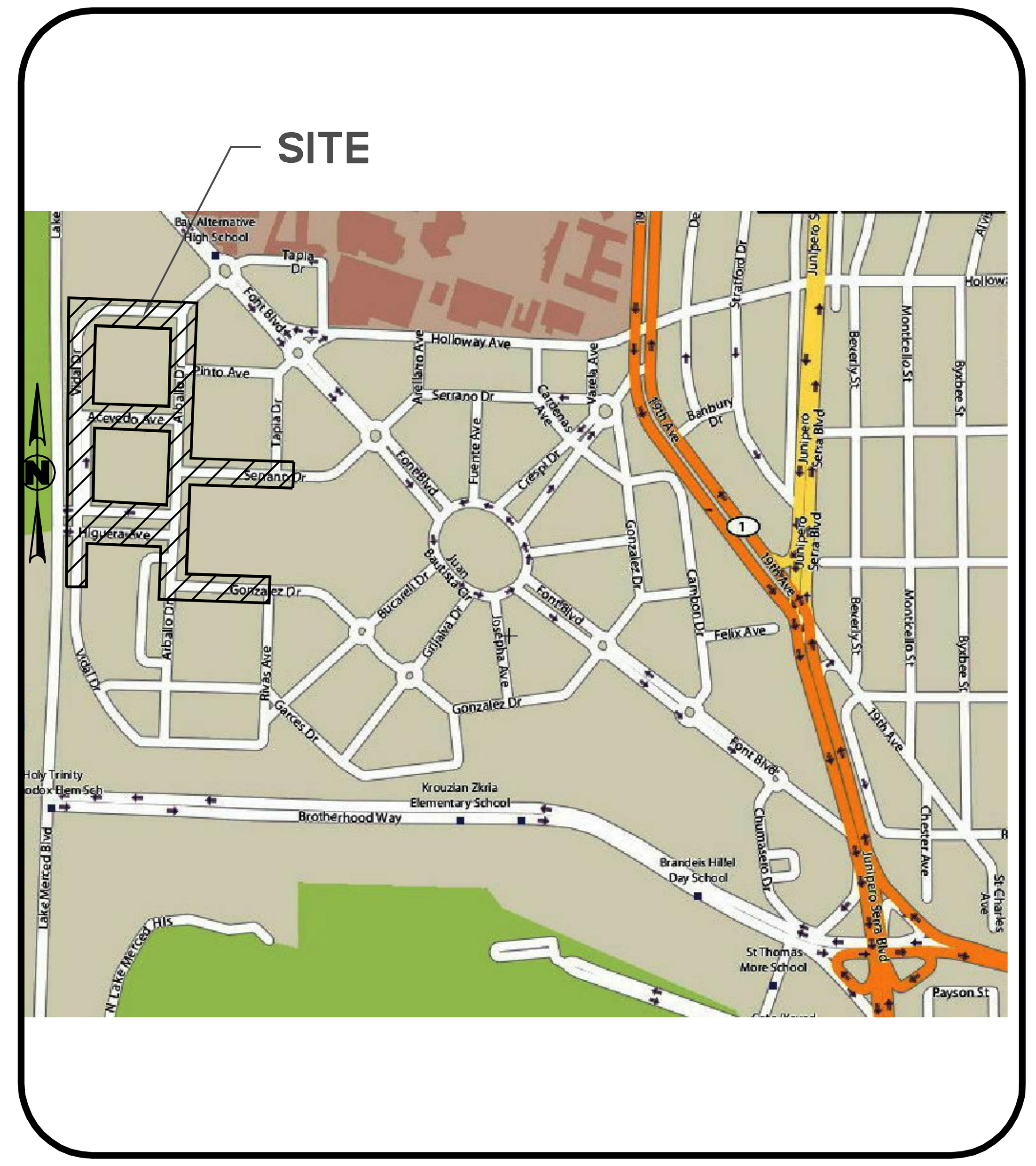
WHEN THE DEVELOPMENT OF THE SITE IS COMPLETE, THE PROJECT WILL INCLUDE 151 ACRES OVER 24 BLOCKS WITH 249 LOTS CONSISTING OF PRIVATE AND PUBLIC CONSTRUCTION INCLUDING RESIDENTIAL, COMMERCIAL, OPEN SPACE, RETAIL, AND SCHOOL IMPROVEMENTS.

LEGEND

	PROPOSED	EXISTING
PROPERTY LINE		
EASEMENT		
CENTERLINE		
CONTOUR LINE	105	105
SANITARY SEWER LINE	8"SS	SS 8" SS
COMBINED SEWER LINE	12"CS	CS
ELECTRIC LINE	E	E
GAS LINE	G	G
JOINT TRENCH LINE	JT JT	JT JT
STORM DRAIN LINE	10"SD	SD
STREET LIGHTING LINE		SL
TELEPHONE LINE	T T	T T
TV LINE		TV
LOW PRESSURE WATER LINE	12"LPW	LPW 8" LPW
AUXILIARY WATER SUPPLY SYSTEM	20"AWSS	FW
RECYCLED WATER LINE	6"RW	RW
DRAINAGE DITCH		
SLOPE DESIGNATOR	TOP TOP TOE TOE	
AREA DRAIN		
CATCH BASIN/MODIFIED CATCH BASIN		
STORM WATER INLET/ MODIFIED STORM WATER INLET		
DROP INLET		
BUBBLE-UP		
MANHOLE OR MODIFIED MANHOLE		
LOW PRESSURE FIRE HYDRANT		
HIGH PRESSURE FIRE HYDRANT		
STREET LIGHT/LUMINAIRE		
WATER VALVE		
AIR VENT	AV	
SPOT ELEVATION ON GRADE		× 101
RETAINING WALL		
TRAFFIC SIGN		
DRIVEWAY		
CURB & GUTTER		
VERTICAL CURB/CONC. BAND		
WATER METER		
BACKFLOW PREVENTER		
TRAFFIC SIGNAL		
TREE GRATE		
STREET MONUMENT		
TRANSFORMER		
SURVEYING CONTROL POINT		7331
PARKMERCED BLOCK NUMBER	BLOCK-01	



LOCATION MAP
NTS



VICINITY MAP
NTS

PROJECT INFORMATION

OWNER/SUBDIVIDER:
MAXIMUS REAL ESTATE PARTNERS, LLC
ONE MARITIME PLAZA, #1900
SAN FRANCISCO, CA 94111
(415) 584-4832

ENGINEER:
BKF ENGINEERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

PROPERTY DESCRIPTION:

A. RECORD OF SURVEY MAP OF PARKMERCED, SAN FRANCISCO. CALIFORNIA RECORDED IN BOOK "R" PAGES 15-19, OFFICIAL RECORDS AUGUST 21, 1951. ALSO ON FILE IN THE CITY OF SAN FRANCISCO BUREAU OF STREETS AND MAPPING AS MONUMENT MAPS T-14-36.

B. RECORD OF SURVEY MAP OF PARKMERCED, SAN FRANCISCO. CALIFORNIA RECORDED IN BOOK "O" PAGES 97-101, OFFICIAL RECORDS FEBRUARY 2, 1944. ALSO ON FILE IN THE CITY OF SAN FRANCISCO BUREAU OF STREETS AND MAPPING AS MONUMENT MAPS T-13-6.

ENGINEER'S STATEMENT

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICE.

Brian Scott

BRIAN SCOTT
P.E. #61034
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REGISTERED PROFESSIONAL ENGINEER
BRIAN K. SCOTT
No. 61034
Exp. 12/31/18
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04/28/2017
DATE

ABBREVIATIONS

SYMBOL	DESCRIPTION
19TH	19TH AVENUE
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
AVDO	ACEVEDO AVENUE
AD	AREA DRAIN
AGG	AGGREGATE
APN	ASSESSORS PARCEL NUMBER
APPROX.	APPROXIMATE
ARV	AIR RELEASE VALVE
AVE	AVENUE
AVG	AVERAGE
ABLO	ARBALLO AVENUE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWMS	AUTOMATED WASTE MANAGEMENT SYSTEM
AWWA	AMERICAN WATER WORKS ASSOCIATION
AWSS	AUXILIARY WATER SUPPLY SYSTEM
BA	BRIDGE ABUTMENT
BC	BEGINNING OF CURVE
BCD	BUCARELI DRIVE
BCR	BEGIN CURB RETURN
BHW	BROTHERHOOD WAY
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCH MARK
BO	BLOWOFF
BOS	BOTTOM OF SLOPE
BPM	BLUE PAVEMENT MARKER
BVC	BEGIN VERTICAL CURVE
BW	BACK OF WALK, BOTTOM OF WALL
BX	BOTTOM OF EXCAVATION
BU	BUBBLE UP STRUCTURE
CB	CATCH BASIN
CAMB	CAMBON DRIVE
CAST	CASTELO AVENUE
CC	CENTER TO CENTER or CENTER OF CURVE
CF	CUBIC FEET
C&G	CURB & GUTTER
CIP	CAST IRON PIPE
CL	CENTERLINE
CHUM	CHUMASERO DRIVE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CONN	CONNECT(ION)
CONT	CONTINUOUS, CONTINUATION
CONST	CONSTRUCT
CR	CURB RETURN/RAMP
CRA	CARDENAS AVENUE
CREA	CRESPI DRIVE EAST
CRWE	CRESPI DRIVE WEST
CS	COMBINED SEWER
CSA	COSTELLO AVENUE
CT	COURT
CUL	CULVERT
CY	CUBIC YARD
DI	DUCTILE IRON
DIA	DIAMETER
DIAZ	DIAZ AVENUE
DIP	DUCTILE IRON PIPE
DR	DRIVE
D/W	DRIVEWAY
(E)	EXISTING
E	ELECTRICAL
EA	EACH
EC	END OF CURVE
ECR	END OF CURB RETURN
EL	ELEVATION
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EVA	EMERGENCY VEHICLE ACCESS EASEMENT
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EW	EACH WAY
EX	EXISTING
(F)	FUTURE
F/C	FACE OF CURB
FTNO	FONT BOULEVARD NORTH
FTSO	FONT BOULEVARD SOUTH
FF	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FI	FIELD INLET
FL	FLOW LINE
FM	FORCE MAIN
FP	FINISHED PAVEMENT
FT	FEET
FNTE	FUENTES AVENUE
FS	FIRE SERVICE OR FINISHED SURFACE
FW	FIRE WATER
FXA	FELIX AVENUE
G	GAS
GRCS	GARCES DRIVE
GALV	GALVANIZED
GB	GRADE BREAK
GCSO	GARCES DRIVE SOUTH
GE	GRATE ELEVATION
GRIJ	GRIJALVA DRIVE
GND	GROUND
GR	GRADE
GV	GATE VALVE
GONZ	GONZALEZ DRIVE
GZLM	GONZALEZ AT LAKE MERCED BLVD
HDWL	HEADWALL
HCP	HABITAT CONSERVATION PLAN
HGRA	HIGUERA DRIVE
HOLL	HOLLOWAY AVENUE
HORIZ	HORIZONTAL
HP	HIGH POINT
HPW	HIGH PRESSURE WATER
HV	HIGH VOLTAGE
ID	INSIDE DIAMETER
IN	INCHES
INV	INVERT
JB	JOINT BOX
JBNO	JUAN BAUTISTA NORTH
JBSO	JUAN BAUTISTA SOUTH
JSB	JUNIPERO SERRA BOULEVARD
JSPH	JOSEPHA AVE
JP	JOINT POLE
JT	JOINT TRENCH
L	LENGTH
LAT	LATERAL
LB	POUND(S)
LF	LINEAR FEET
LMB	LAKE MERCED BOULEVARD
LP	LOW POINT
LPW	LOW PRESSURE WATER
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MOD CB	MODIFIED CATCH BASIN
MOD MH	MODIFIED MANHOLE
MOD SWI	MODIFIED STORM WATER INLET
MON	MONUMENT
MVG	MODIFIED VALLEY GUTTER
N	NORTH
NE	NORTHEAST
NG	NATURAL GROUND
NO., #	NUMBER
NS01	NEW STREET 01
NS02	NEW STREET 02
NS03	NEW STREET 03
NS04	NEW STREET 04
NS05	NEW STREET 05
NS06	NEW STREET 06
NS07	NEW STREET 07
NS08	NEW STREET 08
NS09	NEW STREET 09
NS10	NEW STREET 10
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
OH	OVERHEAD
O.R.	OLD RECORDS
(P)	PROPOSED
P	PAD
P.A.E.	PUBLIC ACCESS EASEMENT
PCC	POINT OF COMPOUND CURVE or PORTLAND CEMENT CONCRETE
PCR	POINT OF CURVE RETURN
PE	PAD ELEVATION OR POLYETHYLENE
PG&E	PACIFIC GAS AND ELECTRIC
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PR	PROPOSED
PRV	PRESSURE REDUCING VALVE
PRVC	POINT OF REVERSE VERTICAL CURVE
PSDE	PRIVATE STORM DRAIN EASEMENT
PS	PROTECTIVE SLOPE
PSSE	PRIVATE SANITARY SEWER EASEMENT
PSI	PRESSURE PER SQUARE INCH
PT	POINT
PNTO	PINTO AVENUE
PT&T	PACIFIC TELEPHONE AND TELEGRAPH (PACIFIC BELL)
P.U.E.	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RIM EL	RIM ELEVATION
RT	RIGHT
R.O.W.	RIGHT OF WAY
RW	RECLAIMED/RECYCLED WATER
RWL	RAIN WATER LEADER
S	SLOPE or SOUTH
SAP	SAN ANDREAS PIPELINE; SEE ARCHITECTURAL PLANS
SBSS	SAND BASED STRUCTURAL SOIL
SD	STORM DRAIN
SDCO	STORM DRAIN CLEAN OUT
SDDI	STORM DRAIN DROP INLET
SDE	STORM DRAIN EASEMENT
SDMH	STORM DRAIN MANHOLE
SE	SOUTHEAST
SEP	SEE ELECTRICAL PLANS
SL	STREET LIGHT
SF	SQUARE FEET
SQ. FT.	SQUARE FEET
SFS	SAN FRANCISCO STANDARDS
SHT	SHEET
SLP	SEE LANDSCAPE PLANS
SNS	STREET NAME SIGN
SERR	SERRANO DRIVE
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSE	SANITARY SEWER EASEMENT
SSMH	SANITARY SEWER MANHOLE
SSFM	SANITARY SEWER FORCE MAIN
SSP	SEE STRUCTURAL PLANS
ST	STREET
STA	STATION
STD	STANDARD
S/W	SIDEWALK
SW	SOUTHWEST
SWI	STORM WATER INLET
T	TELEPHONE
T&B	TOP AND BOTTOM
TC	TOP OF CURB
TEMP	TEMPORARY
TG	TOP OF GRATE
TM	TOP OF MULCH
TP	TOP OF PAVEMENT
TPIA	TAPIA DRIVE
TW	TOP OF WALL
(TYP)	TYPICAL
UG	UNDER GROUND
VIDL	VIDAL DRIVE
VDNO	VIDAL DRIVE NORTH
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VRA	VARELA AVENUE
W/	WITH
W/O	WITHOUT
WL	WATERLINE
WM	WATER METER
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
W	WATER
WH	WALL HEIGHT
XING	CROSSING

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PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
TITLE SHEET
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

NOT FOR CONSTRUCTION

No.	Revisions

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Approved: BS
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APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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SHEET NUMBER	SHEET NAME
C1.00	TITLE SHEET
C1.01	SHEET INDEX
C1.02	NOTES LEGEND & ABBREVIATIONS
C1.03	TYPICAL STREET SECTIONS
C1.04	TYPICAL STREET SECTIONS
C1.05	TYPICAL STREET SECTIONS
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C2.03	EXISTING CONDITIONS & DEMOLITION PLAN – VIDAL (NORTH) DRIVE
C2.04	EXISTING CONDITIONS & DEMOLITION PLAN – VIDAL DRIVE
C2.05	EXISTING CONDITIONS & DEMOLITION PLAN – VIDAL DRIVE
C2.06	EXISTING CONDITIONS & DEMOLITION PLAN – ACEVEDO AVENUE
C2.07	EXISTING CONDITIONS & DEMOLITION PLAN – SERRANO DRIVE
C2.08	EXISTING CONDITIONS & DEMOLITION PLAN – HIGUERA AVENUE
C2.09	EXISTING CONDITIONS & DEMOLITION PLAN – GONZALEZ DRIVE
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C2.11	EXISTING CONDITIONS & DEMOLITION PLAN – ARBALLO DRIVE
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C3.02	GRADING PLAN – WEST
C3.03	GRADING PLAN – EAST
C3.04	GRADING PLAN & PROFILE – LAKE MERCED BOULEVARD
C3.05	GRADING PLAN & PROFILE – LAKE MERCED BOULEVARD
C3.06	GRADING PLAN & PROFILE – LAKE MERCED BOULEVARD
C3.07	GRADING PLAN & PROFILE – LAKE MERCED BOULEVARD
C3.08	GRADING PLAN & PROFILE – VIDAL (NORTH) DRIVE
C3.09	GRADING PLAN & PROFILE – VIDAL (NORTH) DRIVE
C3.10	GRADING PLAN & PROFILE – VIDAL DRIVE
C3.11	GRADING PLAN & PROFILE – VIDAL DRIVE
C3.12	GRADING PLAN & PROFILE – VIDAL DRIVE
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C3.18	GRADING PLAN & PROFILE – HIGUERA AVENUE
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C3.20	GRADING PLAN & PROFILE – GONZALEZ DRIVE
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C3.22	GRADING PLAN & PROFILE – ARBALLO DRIVE
C3.23	GRADING PLAN & PROFILE – ARBALLO DRIVE
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C3.25	INTERSECTION DETAILS
C3.26	INTERSECTION DETAILS
C3.27	INTERSECTION DETAILS
C3.28	INTERSECTION DETAILS

SHEET NUMBER	SHEET NAME
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C3.30	INTERSECTION DETAILS
C3.31	BMP GRADING DETAIL – VIDAL DRIVE
C3.32	BMP GRADING DETAIL – VIDAL DRIVE
C3.33	BMP GRADING DETAIL – VIDAL DRIVE
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C3.37	BMP GRADING DETAIL – SERRANO DRIVE
C3.38	BMP GRADING DETAIL – HIGUERA AVE
C3.39	BMP GRADING DETAIL – HIGUERA AVE
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C4.13	UTILITY PLAN & PROFILE – HIGUERA AVENUE
C4.14	UTILITY PLAN & PROFILE – HIGUERA AVENUE
C4.15	UTILITY PLAN & PROFILE – GONZALEZ DRIVE
C4.16	UTILITY PLAN & PROFILE – GONZALEZ DRIVE
C4.17	UTILITY PLAN & PROFILE – ARBALLO DRIVE
C4.18	UTILITY PLAN & PROFILE – ARBALLO DRIVE
C4.19	UTILITY PLAN & PROFILE – ARBALLO DRIVE
C4.20	UTILITY PLAN & PROFILE – LAKE MERCED BLVD.
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C5.03	SIGNING, STRIPING & PAVING PLAN – VIDAL (NORTH) DRIVE
C5.04	SIGNING, STRIPING & PAVING PLAN – VIDAL DRIVE
C5.05	SIGNING, STRIPING & PAVING PLAN – VIDAL DRIVE
C5.06	SIGNING, STRIPING & PAVING PLAN – ACEVEDO AVENUE
C5.07	SIGNING, STRIPING & PAVING PLAN – SERRANO DRIVE
C5.08	SIGNING, STRIPING & PAVING PLAN – HIGUERA AVENUE
C5.09	SIGNING, STRIPING & PAVING PLAN – GONZALEZ DRIVE
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C7.00	CONSTRUCTION DETAILS
C7.01	CONSTRUCTION DETAILS
C7.02	CONSTRUCTION DETAILS
C7.03	CONSTRUCTION DETAILS
C7.04	CONSTRUCTION DETAILS
C7.05	CONSTRUCTION DETAILS
C7.06	CONSTRUCTION DETAILS
C7.07	CONSTRUCTION DETAILS
C7.08	CONSTRUCTION DETAILS
C7.09	CONSTRUCTION DETAILS
C7.10	CONSTRUCTION DETAILS
C7.11	CONSTRUCTION DETAILS
C7.12	CONSTRUCTION DETAILS
C7.13	CONSTRUCTION DETAILS
C7.14	CONSTRUCTION DETAILS
C7.15	CONSTRUCTION DETAILS
C7.16	CONSTRUCTION DETAILS
C7.17	CONSTRUCTION DETAILS
C7.18	CONSTRUCTION DETAILS
C7.19	CONSTRUCTION DETAILS
C7.20	CONSTRUCTION DETAILS
C7.21	CONSTRUCTION DETAILS
C7.22	CONSTRUCTION DETAILS
C7.23	CONSTRUCTION DETAILS
C7.24	CONSTRUCTION DETAILS
C7.25	CONSTRUCTION DETAILS
C7.26	CONSTRUCTION DETAILS
C7.27	CONSTRUCTION DETAILS
C7.28	CONSTRUCTION DETAILS
C7.29	CONSTRUCTION DETAILS
C7.30	CONSTRUCTION DETAILS
C7.32	CONSTRUCTION DETAILS
C7.33	CONSTRUCTION DETAILS
C7.34	CONSTRUCTION DETAILS
C7.35	CONSTRUCTION DETAILS
C7.36	CONSTRUCTION DETAILS
C7.37	CONSTRUCTION DETAILS
C7.38	CONSTRUCTION DETAILS
C7.39	CONSTRUCTION DETAILS
C7.40	CONSTRUCTION DETAILS
C7.41	CONSTRUCTION DETAILS
C7.42	CONSTRUCTION DETAILS
C7.43	CONSTRUCTION DETAILS
C7.43	CONSTRUCTION DETAILS
C7.44	CONSTRUCTION DETAILS
C7.45	CONSTRUCTION DETAILS
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CS.03B	CONSTRUCTION STAGING PLAN – PHASE 3B
CS.04A	CONSTRUCTION STAGING PLAN – PHASE 4A
CS.04B	CONSTRUCTION STAGING PLAN – PHASE 4B
CS.05A	CONSTRUCTION STAGING PLAN – PHASE 5A
CS.05B	CONSTRUCTION STAGING PLAN – PHASE 5B
CS.05C	CONSTRUCTION STAGING PLAN – PHASE 5C
CS.05D	CONSTRUCTION STAGING PLAN – PHASE 5D
CS.06A	CONSTRUCTION STAGING PLAN – PHASE 6A
CS.06B	CONSTRUCTION STAGING PLAN – PHASE 6B
CS.06C	CONSTRUCTION STAGING PLAN – PHASE 6C
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CS.07A	CONSTRUCTION STAGING PLAN – PHASE 7A
CS.07B	CONSTRUCTION STAGING PLAN – PHASE 7B
CS.07C	CONSTRUCTION STAGING PLAN – PHASE 7C
CS.07D	CONSTRUCTION STAGING PLAN – PHASE 7D
CS.08	CONSTRUCTION STAGING PLAN – PHASE 8

SHEET NUMBER	SHEET NAME
AW1.00	AWSS COVER SHEET
AW2.01	AWSS PLAN & PROFILE – ARBALLO DRIVE
AW2.02	AWSS PLAN & PROFILE – VIDAL DRIVE
AW2.03	AWSS PLAN & PROFILE – VIDAL DRIVE
AW2.04	AWSS PLAN & PROFILE – VIDAL DRIVE
AW2.05	AWSS PLAN & PROFILE – ACEVEDO AVE/VIDAL DRIVE
AW2.06	AWSS PLAN & PROFILE – HIGUERA AVE/VIDAL DRIVE
AW3.00	AWSS THRUST BLOCK DETAILS
AW3.01	AWSS DETAILS 1
AW3.02	AWSS DETAILS 2
AW3.03	AWSS DETAILS 3
AW3.04	AWSS STANDARD DRAWINGS 1
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E1.00	ELECTRICAL LEGEND – SYMBOLS
E1.01	ELECTRICAL LEGEND – ABBREVIATIONS
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E1.03	ELECTRICAL DETAILS – SIGNAL HEAD MOUNTING
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E1.05	TRAFFIC SIGNAL INSTALLATION PLAN – LAKE MERCED BLVD & ACEVEDO AVE
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JT4	JOINT TRENCH COMPOSITE PLAN
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SL1	PUBLIC STREET LIGHTING TITLE SHEET
SL2	PUBLIC STREET LIGHTING DETAIL SHEET
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SL4	PUBLIC STREET LIGHTING SITE PLAN
SL5	PUBLIC STREET LIGHTING SITE PLAN
SL6	PUBLIC STREET LIGHTING SITE PLAN
1 OF 2	PHOTOMETRICS
2 OF 2	PHOTOMETRICS
PS1–B1	PUBLIC SAFETY CONDUIT EXHIBIT – BLOCK 1
PS2–B1	PUBLIC SAFETY CONDUIT EXHIBIT – BLOCK 1
PS3–B6	PUBLIC SAFETY CONDUIT EXHIBIT – BLOCK 6
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SHEET NUMBER	SHEET NAME
L00.01	LANDSCAPE SHEET INDEX, NOTES AND LEGEND
L00.02	LANDSCAPE SHEET INDEX, NOTES AND LEGEND
L00.10	PROJECT AREA IDENTIFICATION PLAN
L00.11	PHASE 1A SHEET TILING PLAN
L01.01	MATERIALS PLAN
L01.02	MATERIALS PLAN
L01.03	MATERIALS PLAN
L01.04	MATERIALS PLAN
L01.05	MATERIALS PLAN
L01.06	MATERIALS PLAN
L02.01	PLANTING PLAN
L02.02	PLANTING PLAN
L02.03	PLANTING PLAN
L02.04	PLANTING PLAN
L02.05	PLANTING PLAN
L02.06	PLANTING PLAN
L03.00	IRRIGATION NOTES AND LEGNEND
L03.01	IRRIGATION PLAN
L03.02	IRRIGATION PLAN
L03.03	IRRIGATION PLAN
L03.04	IRRIGATION PLAN
L03.05	IRRIGATION PLAN
L03.06	IRRIGATION PLAN
L03.11	IRRIGATION DETAILS
L03.12	IRRIGATION DETAILS
L04.01	SOILS PLAN
L04.02	SOILS PLAN
L04.03	SOILS PLAN
L04.04	SOILS PLAN
L04.05	SOILS PLAN
L04.06	SOILS PLAN
L07.01	PLANTING DETAILS
L07.02	PLANTING DETAILS
L07.03	PLANTING DETAILS
L08.01	FURNISHINGS DETAILS
L09.01	SOILS DETAILS

255 SHORELINE DR
SUITE 200
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650-482-6300
650-482-6399 (FAX)

BKF
ENGINEERS / SURVEYORS / PLANNERS

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
SHEET INDEX

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

Revisions
No.

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APPROVED SET FOR BOARD SUBMITTAL 05.01.17

GENERAL NOTES

1. CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS AT THE JOB SITE FOR PUBLIC WORKS, AMBULANCE, POLICE, AND FIRE DEPARTMENTS, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF THE JOB SITE.

2. THE CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDER.

3. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY PERTAINING TO "CONFINED SPACES". ANY MANHOLE, CULVERT, DROP INLET OR TRENCH (WHICH COULD CONTAIN AIR), THAT IS NOT READILY VENTILATED, MAY BE CONSIDERED A "CONFINED SPACE".

4. ENCROACHMENT PERMITS REQUIRED FOR WORK WITHIN EXISTING PUBLIC RIGHTS OF WAY SHALL BE OBTAINED BY THE CONTRACTOR.

5. THE OWNER'S SURVEYOR WILL PROVIDE CONSTRUCTION STAKES. THE NUMBER AND LOCATION OF STAKES REQUIRED SHALL BE DETERMINED BEFORE THE CONSTRUCTION BEGINS. ALL STAKING REQUESTS SHOULD BE DIRECTED TO THE OWNER A MINIMUM OF 48 HOURS PRIOR TO ACTUAL NEED. ANY ADDITIONAL STAKING OR RESTAKING WILL ONLY BE DONE AS DIRECTED AND AUTHORIZED BY THE OWNER OR HIS AUTHORIZED AGENT AT THE EXPENSE OF THE CONTRACTOR.

6. THE CONTRACTOR SHALL NOT DISTURB OR DESTROY ANY PERMANENT SURVEY POINTS WITHOUT THE CONSENT OF THE CITY AND COUNTY SURVEYOR. ANY PERMANENT MONUMENTS OR POINTS DISTURBED OR DESTROYED SHALL BE REPLACED BY A LICENSED ENGINEER OR SURVEYOR AT THE CONTRACTOR'S EXPENSE.

7. THE DEVELOPER/OWNER SHALL HAVE A JOB SUPERINTENDENT OR A DESIGNATED RESPONSIBLE REPRESENTATIVE ON THE JOB SITE ANYTIME WORK IS IN PROGRESS DURING THE CONSTRUCTION OF THE PROJECT. THE DEVELOPER/OWNER SHALL PROVIDE THE CITY ENGINEER WITH THE CONTACT INFO FOR THE DESIGNEE IN WRITING. THE NOTICE SHALL INCLUDE AN EMERGENCY NOTIFICATION PHONE NUMBER. THE CITY SHALL BE ADVISED IN WRITING IF THERE IS TO BE A CHANGE IN JOB-SITE REPRESENTATIVE.

8. A PRE-CONSTRUCTION MEETING OF ALL THE CONTRACTOR'S REPRESENTATIVES INVOLVED IN THE PROJECT WILL BE HELD PRIOR TO THE START OF CONSTRUCTION.

9. PRE CONSTRUCTION AND POST CONSTRUCTION VIDEO INSPECTIONS OF SANITARY SEWER, COMBINED SEWER AND STORM DRAIN ASSETS INCLUDING, BUT NOT LIMITED TO, GRAVITY PIPE, FORCE MAINS, LATERALS, MANHOLES, BOXES, TUNNELS, ETC., SHALL BE PERFORMED IN ACCORDANCE WITH SFPUC AND NASSCO STANDARDS AND SUBMITTED TO SFPUC FOR REVIEW.

10. ALL SEWERS, LATERALS, AND CULVERTS TO REMAIN WITHIN PHASE BOUNDARY SHALL BE VIDEO INSPECTED, TESTED, AND APPROVED BY SFPUC REQUIREMENTS.

11. THE WORK SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY AND COUNTY OF SAN FRANCISCO STANDARD PLANS & SPECIFICATIONS.

12. IT SHALL BE UNDERSTOOD THAT THE TERM "CITY ENGINEER" AS USED HEREIN IS THE CITY ENGINEER OF THE CITY OF SAN FRANCISCO OR HIS AUTHORIZED REPRESENTATIVE.

13. THE CONTRACTOR SHALL GIVE THE CITY ENGINEER TWO (2) WORKING DAYS ADVANCE NOTICE FOR INSPECTION SERVICES.

14. ALL REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED ITEMS, REVISIONS SHALL BE ACCURATELY SHOWN ON REVISED PLANS.

15. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR THE ENTIRE PROJECT SITE AT ALL TIMES PER THE APPROVED PARKMERCED DUST CONTROL PLAN. THE SITE SHALL BE SPRINKLED AS NECESSARY TO PREVENT DUST NUISANCE. INCREASED WATERING SHALL BE REQUIRED WHEN WIND SPEEDS EXCEED 10 MPH OR WHEN DIRECTED BY THE CITY. IN THE EVENT THE CONTRACTOR NEGLECTS TO USE ADEQUATE MEASURES TO CONTROL DUST, THE CITY RESERVES THE RIGHT TO TAKE WHATEVER MEASURES ARE NECESSARY TO CONTROL DUST AND CHARGE THE COST TO THE CONTRACTOR.

16. NO PERSON SHALL, WHEN HAULING ANY EARTH, SAND, GRAVEL, DEBRIS, PAPER, OR ANY OTHER SUBSTANCE OVER ANY PUBLIC STREETS OR OTHER PUBLIC PLACE, ALLOW MATERIAL TO BLOW OR SPILL OVER AND UPON SAID PUBLIC OR APPLICANT PRIVATE PROPERTY. ALL LOADS LEAVING THE SITE SHALL BE COVERED.

17. THE CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION ENTRANCES TO PREVENT THE TRACKING OF SOIL, DUST, MUD, OR CONSTRUCTION DEBRIS ON PUBLIC STREETS.

18. DURING CONSTRUCTION, THE PUBLIC STREETS SHALL BE CLEANED AS OFTEN AS REQUIRED TO REMOVE ANY ACCUMULATION OF MUD & DEBRIS RESULTING FROM THIS CONSTRUCTION. IF IMPORT OR EXPORT OF DIRT IS NECESSARY, THE CONTRACTOR SHALL OBTAIN AN APPROVAL FOR THE HAULING ROUTE FROM THE CITY IF REQUIRED.

19. THE HAULING ROUTES SHALL BE STRICTLY ADHERED TO BY THE CONTRACTOR AND ALL SUBCONTRACTORS.

20. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER, BKF ENGINEERS AT (650) 482-6300, BEFORE PROCEEDING WITH THE WORK IN QUESTION.

21. WHEN SPECIFICATIONS OR STANDARDS FROM DIFFERENT AUTHORITIES DIFFER FOR THE SAME SUBJECT MATTER, THE MOST STRINGENT SHALL GOVERN UNLESS OTHERWISE NOTED.

22. UPON SATISFACTORY COMPLETION OF THE WORK, THE ENTIRE WORK SITE SHALL BE CLEANED UP AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION WASTE AND RUBBISH OF ANY NATURE BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF SAN FRANCISCO.

23. ALL CONSTRUCTION STAKING SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA. UPON COMPLETION OF GRADING, THE CONTRACTOR SHALL REQUEST THE LICENSED LAND SURVEYOR TO CHECK THE GRADES AND CERTIFY THAT THE BUILDING PADS ARE GRADED TO WITHIN ± 0.10 FOOT OF FINISH PAD GRADE.

24. CONTRACTOR SHALL OBTAIN RIGHT OF ENTRY FROM ADJACENT PROPERTY OWNERS FOR WORK WITHIN ADJACENT PROPERTIES.

25. CONTRACTOR SHALL ARRANGE FOR REQUIRED INSPECTIONS BY THE CITY ENGINEER. NO DELAY OF WORK CLAIM WILL BE ALLOWED DUE TO CONTRACTOR'S FAILURE TO ARRANGE FOR REQUIRED CITY INSPECTIONS IN ADVANCE. CONTRACTOR SHALL PROVIDE NOTICE TO CITY ENGINEER A MINIMUM OF 2 WORKING DAYS IN ADVANCE OF REQUIRED INSPECTIONS.

26. CONTRACTOR SHALL RESTORE ALL WALLS, FENCES, SERVICES, UTILITIES, PAVEMENT & CURB MARKINGS IMPROVEMENTS OR FEATURES OF WHATEVER NATURE WHICH ARE DAMAGED DUE TO THE CONTRACTOR'S WORK TO THEIR PREVIOUS CONDITION.

27. EXISTING PEDESTRIAN WALKWAYS, BIKEPATHS AND HANDICAP ACCESS PATHWAYS SHALL BE MAINTAINED DURING CONSTRUCTION TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.

28. IF ARCHAEOLOGICAL RESOURCES SUCH AS CHIPPED STONE OR GRINDSTONE, HISTORIC DEBRIS, BUILDING FOUNDATION, OR HUMAN BONE OR ANY OTHER INDICATORS OF CULTURAL RESOURCES ARE DISCOVERED DURING GROUND DISTURBING ACTIVITIES, LEAVE THE AREA IN QUESTION UNDISTURBED AND CONTACT A REPRESENTATIVE OF THE CITY TO DETERMINE THE APPROPRIATE COURSE OF ACTION.

29. ALL WORK SHALL CONFORM TO 2015 SAN FRANCISCO SUBDIVISION REGULATIONS, DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF SAN FRANCISCO, AND ALL APPLICABLE CITY AND COUNTY OF SAN FRANCISCO STANDARD SPECIFICATIONS AND PLANS. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH REQUIREMENTS OF THE PROJECT GEOTECHNICAL ENGINEER.

30. HAZARDOUS MATERIALS: UPON DISCOVERY OF HAZARDOUS MATERIAL THE CONTRACTOR SHALL PROMPTLY NOTIFY THE CITY IN WRITING OF ANY MATERIAL THAT THE CONTRACTOR BELIEVES MAY BE MATERIAL THAT IS HAZARDOUS WASTE, AS DEFINED IN SECTION 25117 OF THE HEALTH AND SAFETY CODE, THAT IS REQUIRED TO BE REMOVED TO A CLASS I, CLASS II, OR CLASS III DISPOSAL SITE IN ACCORDANCE WITH PROVISIONS OF EXISTING LAW.

31. CONTRACTOR SHALL HANG DISC ON AWSS FH INDICATING THAT THE AWWS FH IS CONNECTED TO THE LOW PRESSURE WATER SYSTEM DURING INTERIM CONDITION AND WILL BE CONNECTED TO THE AWSS AT A FUTURE DATE.

32. SFFD WATER SUPPLY:

    CONTRACTOR SHALL MAINTAIN AN ADEQUATE SFFD FIRE PROTECTION WATER SUPPLY DURING DEMOLITION AND CONSTRUCTION SUBJECT TO SFFD APPROVAL.

    DEMOLITION OF EXISTING WATER MAINS AND FIRE HYDRANTS SHALL BE DEFERRED UNTIL PROPOSED FIRE HYDRANTS ARE FUNCTIONAL.

    PRIOR TO CONSTRUCTION CONTRACTOR SHALL CONSULT WITH SFFD FOR EITHER A DIFFERENT TEMPORARY OR PERMANENT APPROVED WATER SUPPLY. REFER TO 2013 CALIFORNIA FIRE CODE CHAPTER 33 – "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" AND SF DEPARTMENT OF BUILDING INSPECTION INFORMATION SHEET NO. FS-04 "FIRE SAFETY REQUIREMENTS FOR 200-FRAME BUILDINGS DURING CONSTRUCTION." THE MINIMUM REQUIREMENTS FOR FIRE HYDRANTS IS 1500 GPM AT 20 PSI.

33. EXISTING UTILITY SERVICES, ACCESS, & OVERLAND FLOW: CONTRACTORS SHALL ENSURE THAT CONSTRUCTION DOES NOT INTERRUPT THE UTILITY SERVICE OR ACCESS TO EXISTING TENANTS OR RESIDENTS AT ANY POINT IN TIME OR DISRUPT THE APPROPRIATE CONVEYANCE OF OVERLAND FLOW OF STORMWATER AS DEFINED IN THE CITY SUBDIVISION REGULATIONS AND BY THE PUC.

34. CDD WILL PERFORM ALL CONNECTIONS TO EXISTING LPW MAINS OPERATED BY SFPUC. CONTRACTOR TO PERFORM CONNECTIONS TO LPW MAINS OWNED AND OPERATED BY PARKMERCED.

35. CONTRACTOR SHALL POTHOLE WATER MAIN TIE-IN LOCATIONS AND PROVIDE SHOP DRAWINGS OF CONNECTION DETAILS FOR ENGINEER AND CITY REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

36. LOW PRESSURE WATER LINES AND RECYCLED WATER LINES SHALL BE DUCTILE IRON (CLASS 53). ALL DIP LINES SHALL HAVE AN EXTERIOR ZINC COATING. LOW PRESSURE WATER LINES 12" AND LARGER SHALL BE TR-FLEX PIPE.

37. STORM DRAIN, SANITARY SEWER, AND COMBINED SEWER MANHOLES SHALL BE PER CITY STANDARD PLAN 87,181 OR 87,182 OR 87,183 OR MODIFIED VERSIONS THEREOF AS INDICATED ON PLANS.

38. CATCH BASINS SHALL BE PER CITY STANDARD PLAN 87,188.

39. CURBS SHALL BE 6" PER CITY STANDARD PLAN 87,169.

40. DRIVEWAYS SHALL BE PER CITY STANDARD PLAN 87,171.

41. STANDARD CONSTRUCTION JOINTS FOR SIDEWALK & CURB SHALL BE PER CITY STANDARD PLAN 87,173 AND 87,174.

42. CONCRETE SIDEWALK FINISH AND SCORING PATTERN SHALL BE PER CITY OF SAN FRANCISCO STANDARDS AND PER CITY STANDARD PLAN 96,608.

43. CURB RAMPS SHALL BE PER CITY STANDARD PLANS CR-1 THRU CR-10.

44. SEE SHEETS C1.08 THRU C1.23 FOR ALIGNMENT HORIZONTAL CONTROL INFORMATION.

45. SEE SHEET SERIES C5.00 FOR SIGNING & STRIPING INFORMATION. WORK TO BE DONE BY SFMTA. CONTRACTOR SHALL COORDINATE SIGNING & STRIPING WITH SFMTA. SFMTA IS TO PROVIDE ALL SIGNAGE AND STRIPING UNLESS OTHERWISE NOTED. SIGN INSTALLATION SHALL BE PER THE CITY OF SAN FRANCISCO CITY STANDARDS. FOR SIGN DESIGNATION REFER TO MUTCD & MUTCD CALIFORNIA SUPPLEMENT.

46. SEE SHEETS C3.24 THRU C3.30 FOR CURB RAMP AND INTERSECTION GRADING DETAILS.

47. ALL UNDERGROUND UTILITIES & IRRIGATION SLEEVES SHALL BE INSTALLED PRIOR TO ANY PAVING OPERATION TAKING PLACE.

48. PER CITY STANDARD PLAN 87,195, THE CONTRACTOR SHALL ENCASE IN CONCRETE: 1) ALL NEW VCP SEWERS 15" OR LESS IN DIAMETER HAVING 15 FEET OR MORE OF COVER 2) ALL NEW VCP SEWERS 18" OR LARGER IN DIAMETER WITH 10 FEET OR MORE OF COVER.

49. ALL RCP SHALL BE RATED FOR D-2000 LOADING.

50. WATER LATERALS SHALL BE INSTALLED WITH A 30" MIN COVER.

51. SEWER LATERALS SHALL BE 6" VCP MIN AT 2% MIN SLOPE. SEE PLAN FOR ACTUAL SIZES.

52. DIMENSIONS SHOWN ARE TO CENTER OF PIPE/STRUCTURES UNLESS OTHERWISE NOTED.

53. FOR UTILITY CLEARANCES, REFER TO TYPICAL CROSS SECTIONS.

54. SUBGRADE R-VALUES = 50 PER GEOTECHNICAL REPORT.

EXISTING CONDITIONS

1. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A FIELD SURVEY BY BKF ENGINEERS DATED FEBRUARY 4, 2015. GRADES ENCOUNTERED ON-SITE MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS AND CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.

2. INFORMATION REGARDING EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WAS TAKEN FROM RECORD DATA KNOWN TO THE DESIGN ENGINEER AND IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES (WHETHER SHOWN ON THESE PLANS OR NOT) PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.

3. ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF ANY CONSTRUCTION AFFECTING SAID LINES.

4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE EXISTENCE OF ANY AND ALL UNDERGROUND FACILITIES, WHICH MAY BE SUBJECT TO DAMAGE BY REASON OF HIS OPERATIONS. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600, 48 HOURS PRIOR TO ANY EXCAVATION. WORK SHALL START WITHIN 5 DAYS AFTER THE ISSUANCE OF A USA INQUIRY IDENTIFICATION NUMBER. COMPLETE REMOVAL OF THE USA MARKINGS SHALL BE WITHIN 2 WORKING DAYS AFTER COMPLETION OF THE EXCAVATION, BACKFILL AND SURFACE REPLACEMENT OR FOURTEEN (14) CALENDAR DAYS FOLLOWING THE ISSUANCE OF THE INQUIRY IDENTIFICATION NUMBER, WHICHEVER IS EARLIER.

5. CONTACTING USA DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO DETERMINE LOCATION AND DEPTH OF BURIED UTILITIES OR REPAIR OF BURIED UTILITIES DAMAGED BY HIS OPERATION.

DEMOLITION

1. COORDINATE ABANDONMENT AND DISCONNECTION OF EXISTING IMPROVEMENTS WITH THE APPROPRIATE AGENCY.

2. CALL UNDERGROUND SERVICE ALERT (USA) AT (800)227-2600 FOR LOCATING EX UTILITIES IN THE VICINITY OF THE PROJECT SITE PRIOR TO COMMENCING ANY CONSTRUCTION WORK. POTHOLE IN THE VICINITY OF ALL PRIMARY DISTRIBUTION SYSTEMS. RELOCATION OF THE EXISTING UTILITIES AS A RESULT OF THIS PROJECT SHALL BE AT THE CUSTOMER'S EXPENSE. THE CONTRACTOR IS TO HAVE A FIELD MEETING WITH THE CITY UNDERGROUND ELECTRICAL INSPECTOR , BEFORE EXCAVATING IN THE PUBLIC RIGHT-OF-WAY CONTRACTOR MAY CONTACT UTILITIES ENGINEERING BY PHONE FOR ANY ASSISTANCE OR INFORMATION.

3. ITEMS DEMOLISHED ARE TO BECOME THE PROPERTY OF THE THE CONTRACTOR AND SHALL BE LAWFULLY DISPOSED OF OFF-SITE AND IN CONFORMANCE WITH THE CITY CONSTRUCTION & DEMOLITION DEBRIS REUSE AND RECYCLING PROGRAM.

4. CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO ALL EXISTING BUILDINGS TO REMAIN WITHOUT INTERRUPTION.

5. CONTRACTOR SHALL COORDINATE LIMITS OF DEMOLITION OF DRY UTILITIES WITH THE JOINT TRENCH DRAWINGS. CONTRACTOR SHALL REMOVE VAULTS AND BOXES WITHIN THE PUBLIC RIGHT-OF-WAY AFTER UTILITIES HAVE BEEN ABANDONED.

EARTHWORK/GRADING

1. ALL GRADING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE NOTES AND THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORTS (AND ANY UPDATES AND ADDENDA), PREPARED BY LANGAN TREADWELL ROLLO, TITLED:

   GEOTECHNICAL INVESTIGATION PARKMERCED – PHASE 1A, BLOCK 1 SAN FRANCISCO CALIFORNIA PREPARED FOR PARKMERCED INVESTORS LLC 345 VIDAL DRIVE, SAN FRANCISCO, CALIFORNIA, 94123, DATED OCTOBER 16, 2015.

   GEOTECHNICAL INVESTIGATION PARKMERCED – PHASE 1A, BLOCK 6 SAN FRANCISCO CALIFORNIA PREPARED FOR PARKMERCED INVESTORS LLC 345 VIDAL DRIVE, SAN FRANCISCO, CALIFORNIA, 94123, DATED OCTOBER 16, 2015.

   AND LETTER PREPARED BY LANGAN TREADWELL ROLLO, TITLED:

   GEOTECHNICAL RECOMMENDATIONS PARKMERCED – PHASE 1A AND 1B STREET IMPROVEMENT PLANS SAN FRANCISCO, CALIFORNIA, LANGAN PROJECT No.: 731646101, DATED MAY 1, 2017.

2. THE GEOTECHNICAL ENGINEER SHALL BE PRESENT AT THE SITE DURING GRADING OPERATIONS AND SHALL PERFORM ALL TESTING DEEMED NECESSARY. THE GEOTECHNICAL ENGINEER SHALL OBSERVE GRADING OPERATIONS AND IDENTIFY THOSE CONDITIONS WITH RECOMMENDED CORRECTIVE MEASURES TO THE CONTRACTOR AND THE CONSTRUCTION MANAGER.

3. EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHOULD BE PROVIDED AT LEAST 48 HOURS ADVANCE NOTIFICATION OF ANY EARTHWORK OPERATIONS.

4. CONTRACTOR SHALL CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITHIN TOLERANCE OF ONE-TENTH OF A FOOT. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTOR SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE OWNER.

5. ALL CUT AND FILL SLOPES AT THE BOUNDARY LINES SHALL BE CONSTRUCTED IN SUCH A MANNER THAT ADJACENT FENCES WILL NOT BE DAMAGED.

6.

7. ALL GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED.

8. ALL GRADED SLOPES ARE MAXIMUM TWO (2) FEET HORIZONTAL TO ONE (1) FOOT VERTICAL UNLESS OTHERWISE NOTED.

9. GRADES ENCOUNTERED ON-SITE MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL REVIEW THE PLANS AND CONDUCT INVESTIGATIONS AS REQUIRED TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.

10. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPING AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND TO AVOID THE CREATION OF ANY LOW SPOTS OR HAZARDOUS CONDITIONS OR ANY ABRUPT OR APPARENT CHANGES IN APPEARANCE, GRADES, OR CROSS SLOPES.

11. IMPORT FILL MATERIAL SHALL CONFORM TO THE SPECIFICATIONS AND REQUIREMENTS OF THE SOILS REPORT.

12. PROJECT SHALL CONFORM WITH SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS ORDER NO. 178940 REGARDING EXCAVATING AND RESTORING STREETS IN SAN FRANCISCO.

13. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND, WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM LACK OF ADEQUATE SHORING, BRACING AND SHEETING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND HE SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, STRUCTURE AND/OR BORING OR JACKING PIT IS FIVE FEET OR MORE IN DEPTH THE CONTRACTOR SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS. CONTRACTOR SHALL SUBMIT A SHORING AND EXCAVATION PLAN FOR APPROVAL BY CITY PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DEWATERING IN COMPLIANCE WITH THE GEOTECHNICAL RECOMMENDATIONS, THE PROJECT SPECIFICATIONS, AND ALL LOCAL, STATE AND FEDERAL LAWS.

TRAFFIC CONTROL PLAN

1. PRIOR TO COMMENCING ANY WORK, CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM SFMTA. THE TRAFFIC CONTROL PLAN SHALL ADDRESS ITEMS SUCH AS LIMITS OF TEMPORARY VEHICLE TRAVEL AND PARKING LANE CLOSURES, SIDEWALK CLOSURES, BUS STOP RELOCATIONS, SIGNAGE, FLAGGING, ETC. DURING VARIOUS PHASES OF THE CONSTRUCTION WORK.
2. THE TRAFFIC CONTROL PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE "REGULATIONS FOR WORKING IN SAN FRANCISCO STREETS", ALSO KNOWN AS THE "BLUE BOOK", WHICH CAN BE FOUND AT http://www.sfmta.com/services/streets-sidewalks/construction-regulations. THIS MANUAL ESTABLISHES RULES AND GUIDANCE SO THAT WORK CAN BE DONE BOTH SAFELY AND WITH THE LEAST POSSIBLE INTERFERENCE WITH PEDESTRIANS, BICYCLE, TRANSIT AND VEHICULAR TRAFFIC. IN ADDITION, ALL TRAFFIC CONTROL, WARNING AND GUIDANCE DEVICES MUST CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). IN ADDITION TO THE REGULATIONS IN THE MANUAL, CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CITY, STATE, AND FEDERAL CODES, RULES AND REGULATIONS. A SPECIAL TRAFFIC PERMIT (STP) IS REQUIRED IF CONTRACTOR CANNOT COMPLY WITH BLUE BOOK REQUIREMENTS.
3. CONSTRUCTOR SHALL PROVIDE BARRICADES, BARRIERS AND FENCING IN ACCORDANCE WITH THE CAMUTCD TO PROTECT THE GENERAL PUBLIC AND TO PREVENT UNCONTROLLED ACCESS TO THE SITE AT ALL TIMES.

BASIS OF BEARINGS

1. THE BEARING OF NORTH 46° 36' 00" WEST BETWEEN THE FOUND MONUMENT AT THE INTERSECTION OF GARCES DRIVE AND BUCARELI DRIVE AND THE FOUND MONUMENT AT THE NORTHERLY INTERSECTION OF CRESPI DRIVE AND JUAN BAUTISTA CIRCLE AS SHOWN ON CITY AND COUNTY OF SAN FRANCISCO MONUMENT MAP T-13-6.

BENCHMARK

1. BM10510 – 2 1/2" DOMED BRASS DISK AT THE NORTHEAST CORNER OF LAKE MERCED BLVD & BROTHERHOOD WAY, STAMPED "T-0158." IN CONCRETE ISLAND FORMED BY NORTH BOUND LAKE MERCED BLVD & TURN LANES OF WEST BOUND BROTHERHOOD WAY. 10.3' NORTH OF NORTH FACE OF CURB OF HANDICAP RAMP IN ISLAND. 10.3' EAST OF PEDESTRIAN TRAFFIC SIGNAL. 6.7' EAST OF EAST FACE OF CURB OF LAKE MERCED BLVD. ELEVATION=52.034' (NAVD 88 DATUM)

   VERTICAL DATUM STATEMENT: THE ELEVATIONS SHOWN ON THIS SURVEY WERE BASED ON THE CITY & COUNTY OF SAN FRANCISCO 2013 NAVD88 VERTICAL DATUM.

   HORIZONTAL DATUM STATEMENT: ALL COORDINATES HEREIN ARE BASED ON THE CITY & COUNTY OF SAN FRANCISCO'S 2013 HIGH PRECISION NETWORK SURVEY AND REFLECT THE LOCAL CUSTOM COORDINATE SYSTEM CREATED BY SAID SURVEY AND REFERRED TO AS THE CITY & COUNTY OF SAN FRANCISCO COORDINATE SYSTEM (CCSF-CS)

UNAUTHORIZED CHANGES AND USES

1. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

UTILITY INFORMATION

COMBINED STORM SEWERS: (HYDRAULICS)	CITY OF SAN FRANCISCO 1 DR. CARLTON B. GOODLETT PLACE CITY HALL, ROOM 348 SAN FRANCISCO, CA 94102 (415) 554-8318
WATER:	CITY DISTRIBUTION DIVISION 1990 NEWCOMB AVE. SAN FRANCISCO, CA 94124 (415) 550-4911
POWER AND GAS:	PACIFIC GAS & ELECTRIC 863 CLAY STREET SAN FRANCISCO, CA 94108 (415) 695-3477
TELEPHONE:	AT&T 3475 "B" NORTH FIRST SAN JOSE, CA 95134 (408) 493-7104
CABLE:	COMCAST 2055 FOLSOM STREET SAN FRANCISCO, CA 94110 (415) 863-8500
FIRE PROTECTION:	CITY OF SAN FRANCISCO 698 SECOND STREET SAN FRANCISCO, CA 94107 (415) 558-6361

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255 SHORELINE DR
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REDWOOD CITY, CA 94065
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PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
NOTES LEGEND & ABBREVIATIONS
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

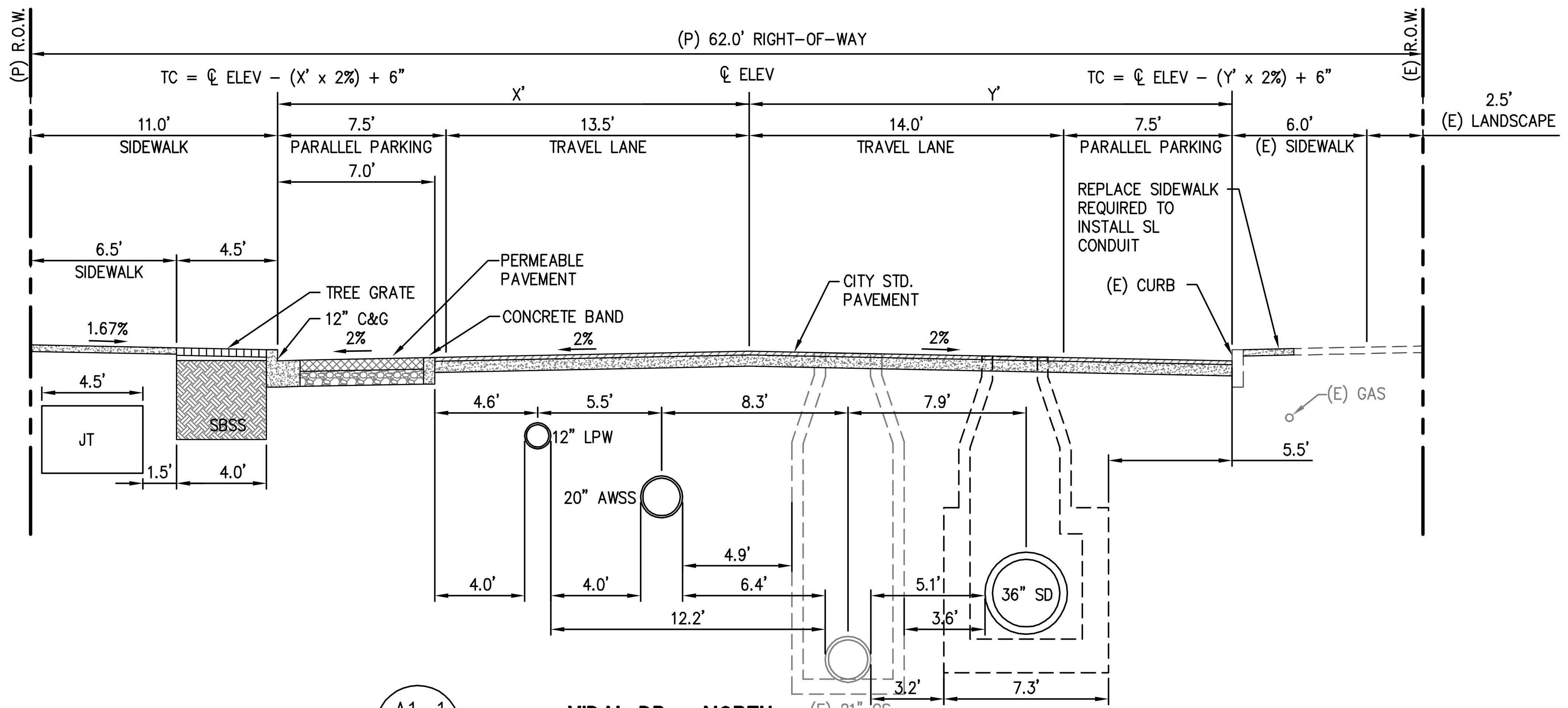
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

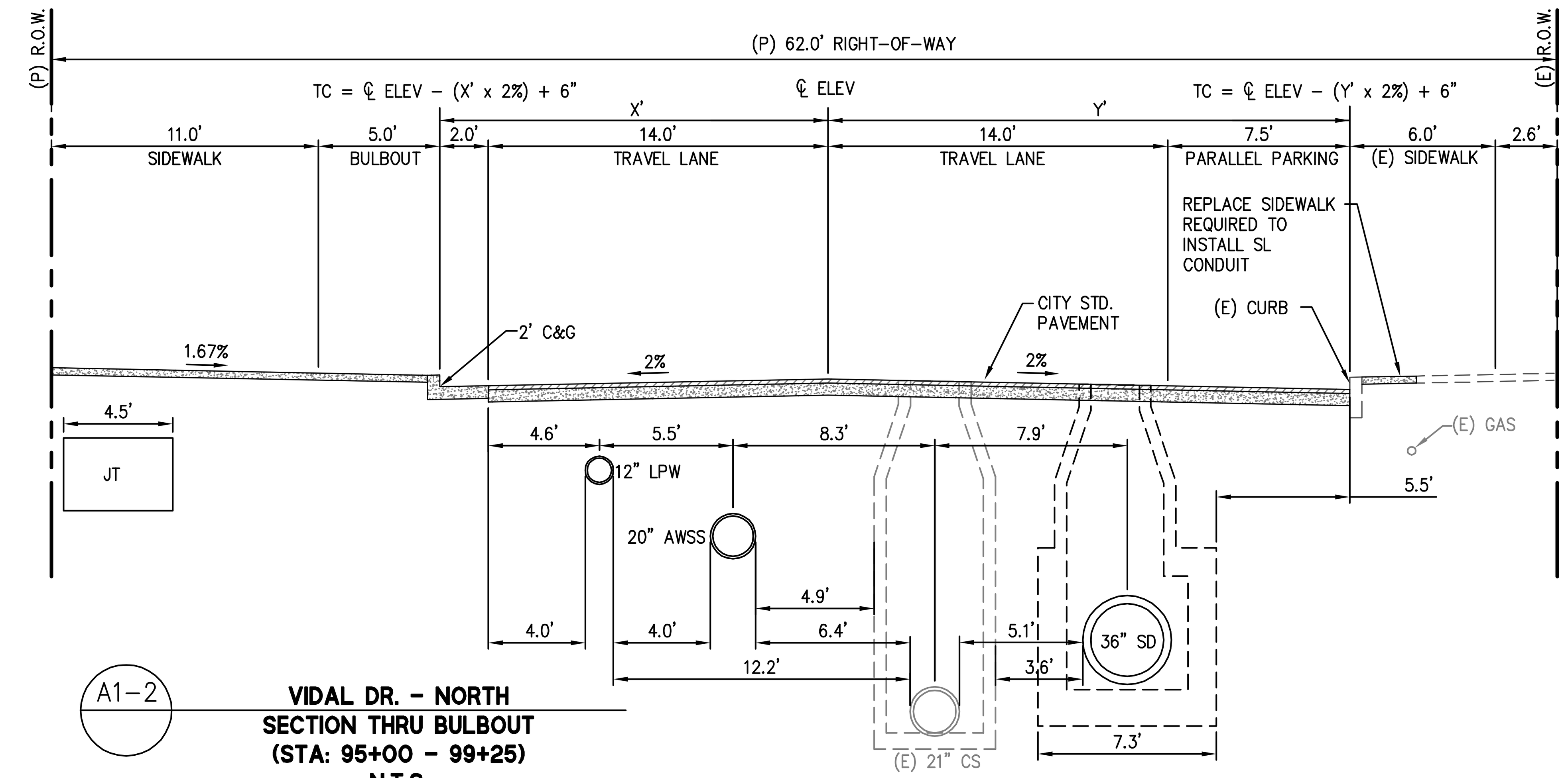
Drawing Number:
C1.02

DRAWING NAME: \\Bkf-rc\data\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C100-Title.dwg (C1.02)
PLOT TIME: 5-1-2017 12:12 PM PLOTTED BY: hmiff

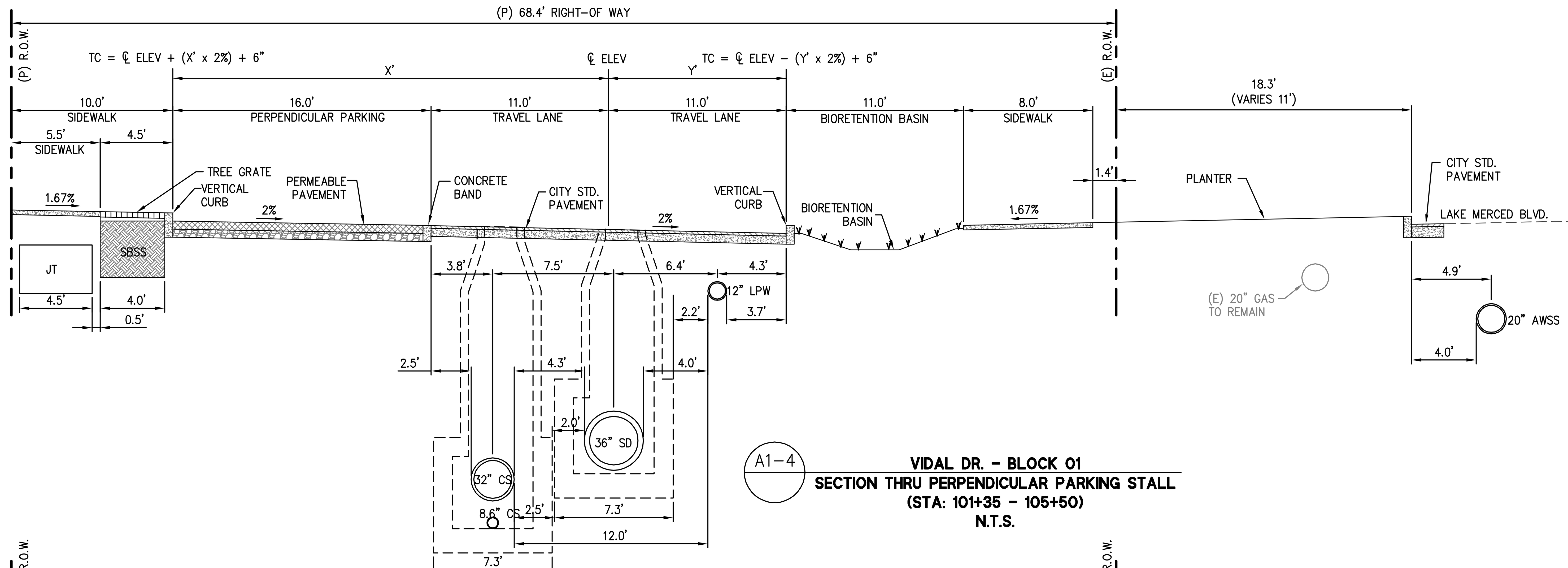
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



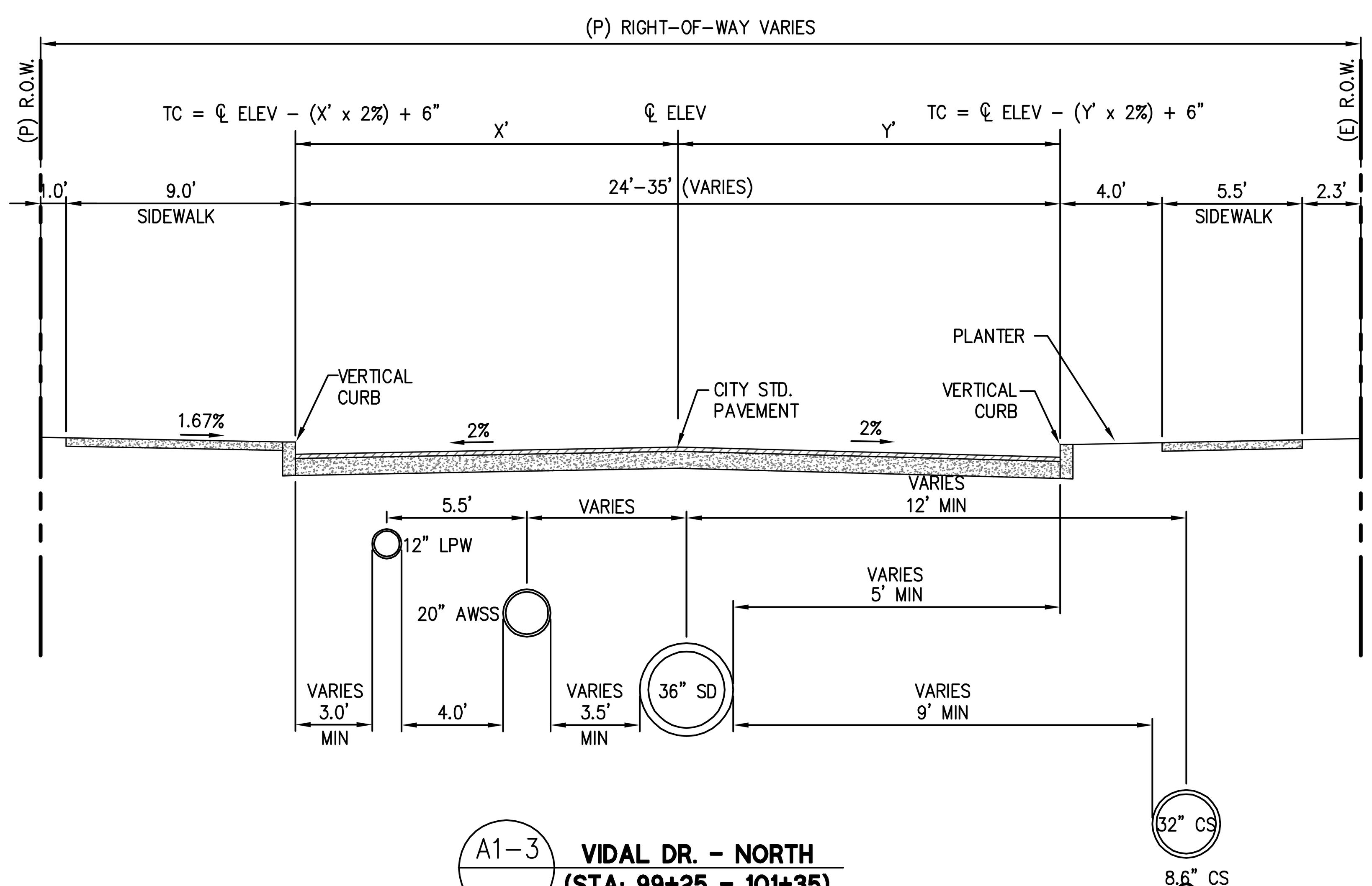
A1–1 **VIDAL DR. – NORTH**
SECTION THRU PARKING BAY
(STA: 95+00 – 99+25)
N.T.S.



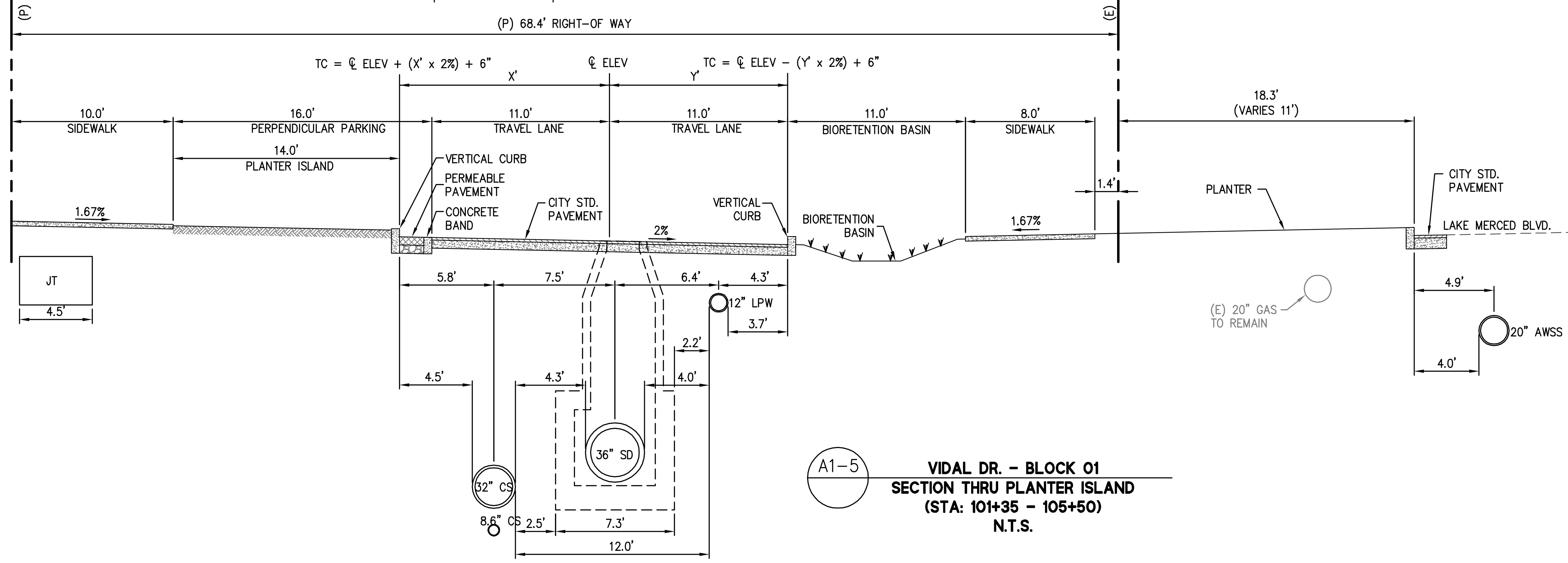
A1–2 **VIDAL DR. – NORTH**
SECTION THRU BULBOUT
(STA: 95+00 – 99+25)
N.T.S.



A1–4 **VIDAL DR. – BLOCK 01**
SECTION THRU PERPENDICULAR PARKING STALL
(STA: 101+35 – 105+50)
N.T.S.



A1–3 **VIDAL DR. – NORTH**
(STA: 99+25 – 101+35)



A1–5 **VIDAL DR. – BLOCK 01**
SECTION THRU PLANTER ISLAND
(STA: 101+35 – 105+50)
N.T.S.

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PHASE 1A STREET IMPROVEMENT PLANS
TYPICAL STREET SECTIONS

SAN FRANCISCO · SAN FRANCISCO COUNTY · CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C1.03

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C100-Title.dwg (C1.03)
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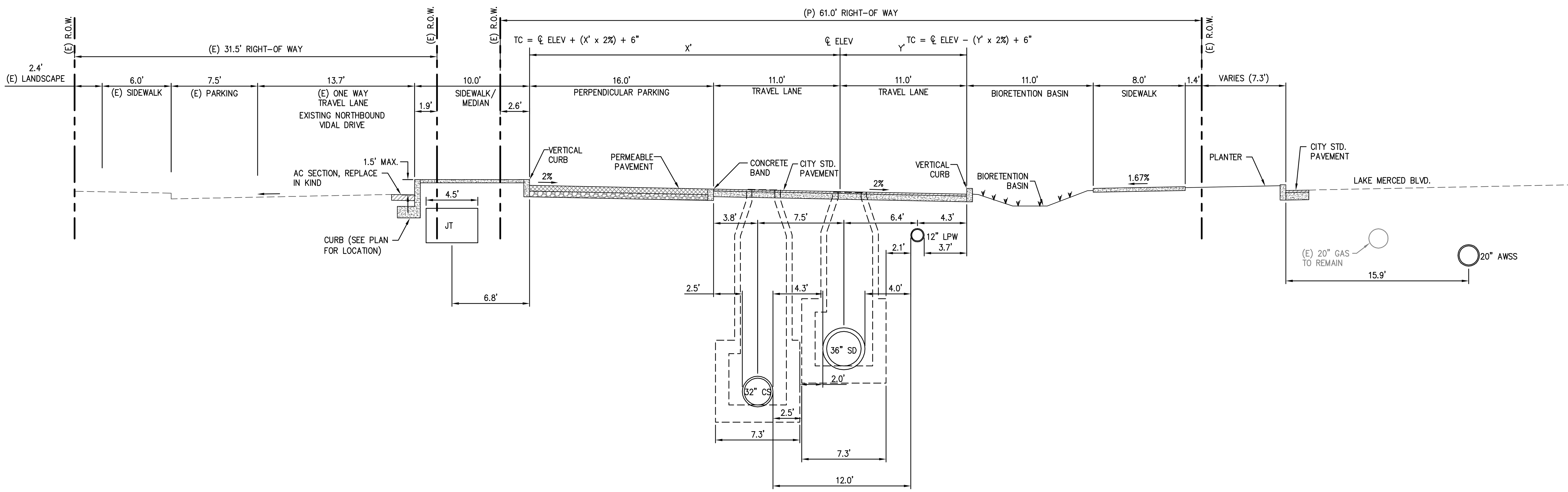
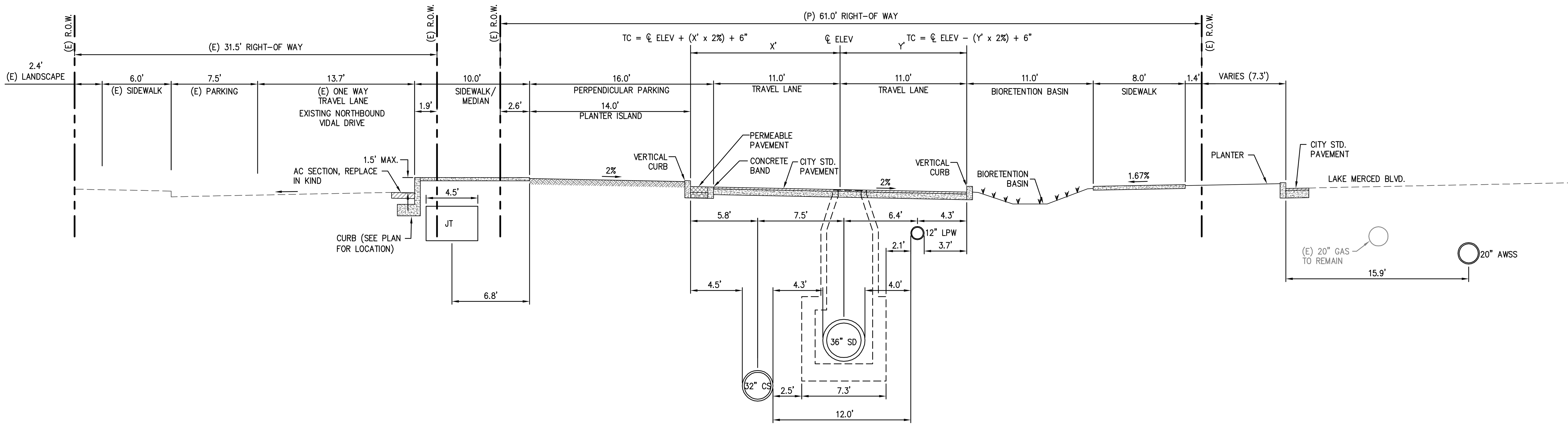
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



A1-6

VIDAL DR. - BLOCK 02
SECTION THRU PERPENDICULAR STALL
(STA: 105+50 - 111+50)
N.T.S.



A1-7

VIDAL DR. - BLOCK 02
SECTION THRU PLANTER ISLAND
(STA: 105+50 - 111+50)
N.T.S.

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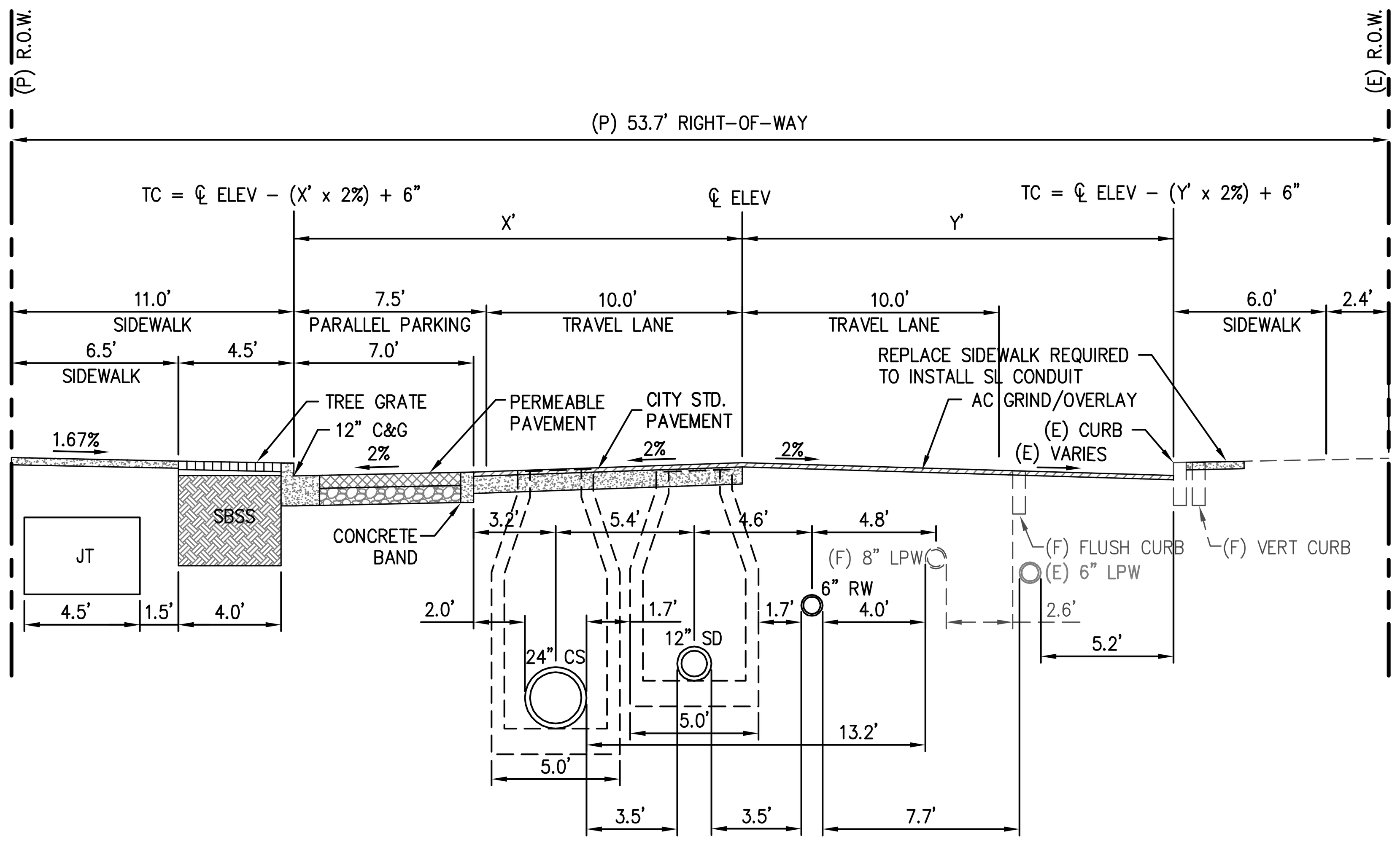
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

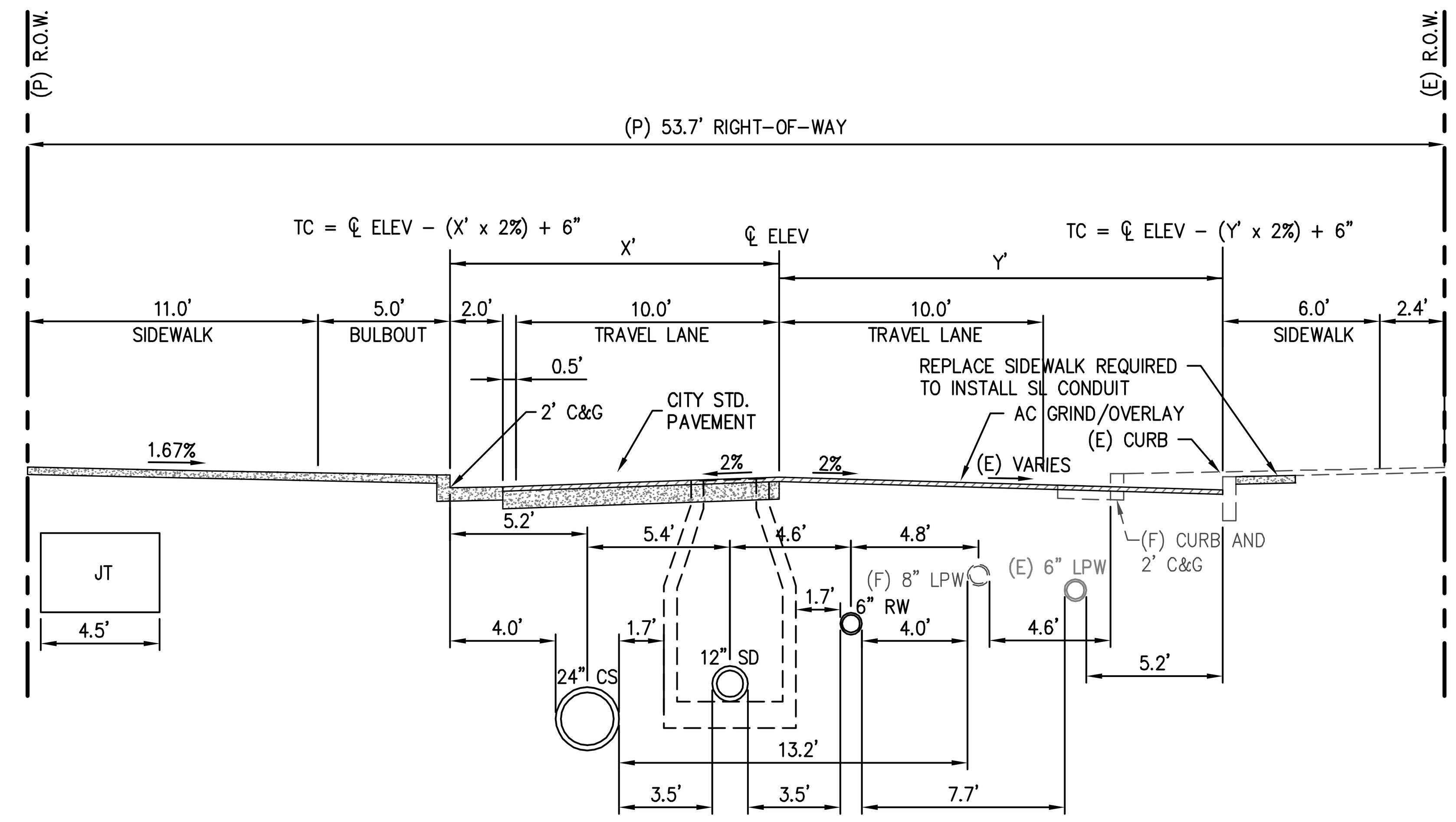
Drawing Number:
C1.04

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C100-Title.dwg (C1.04)
PLOT TIME: 4-27-2017 12:56 PM PLOTTED BY: bum

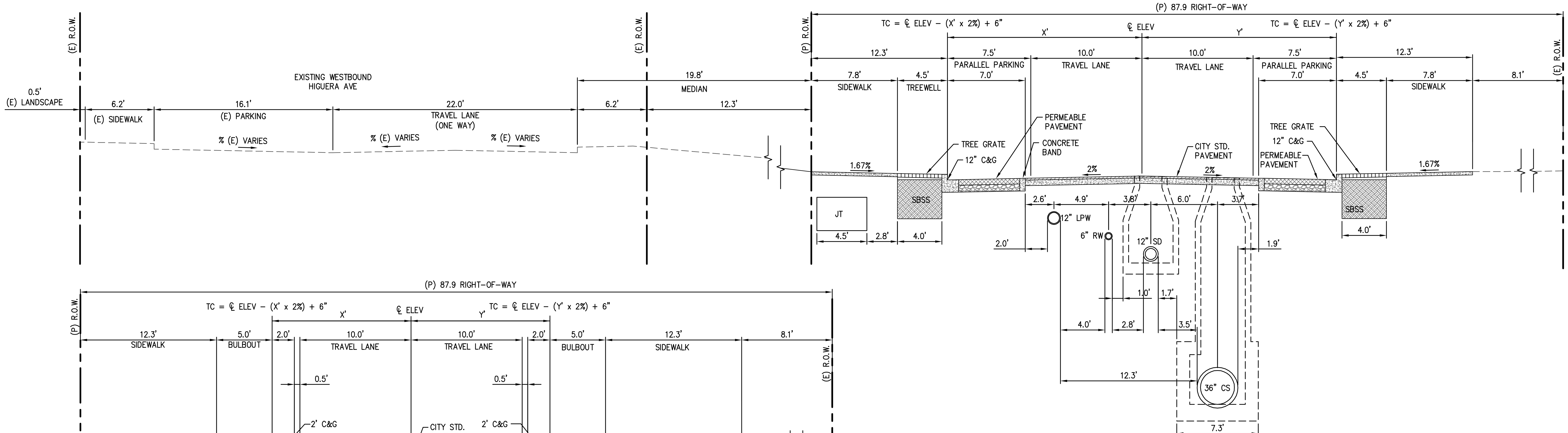
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



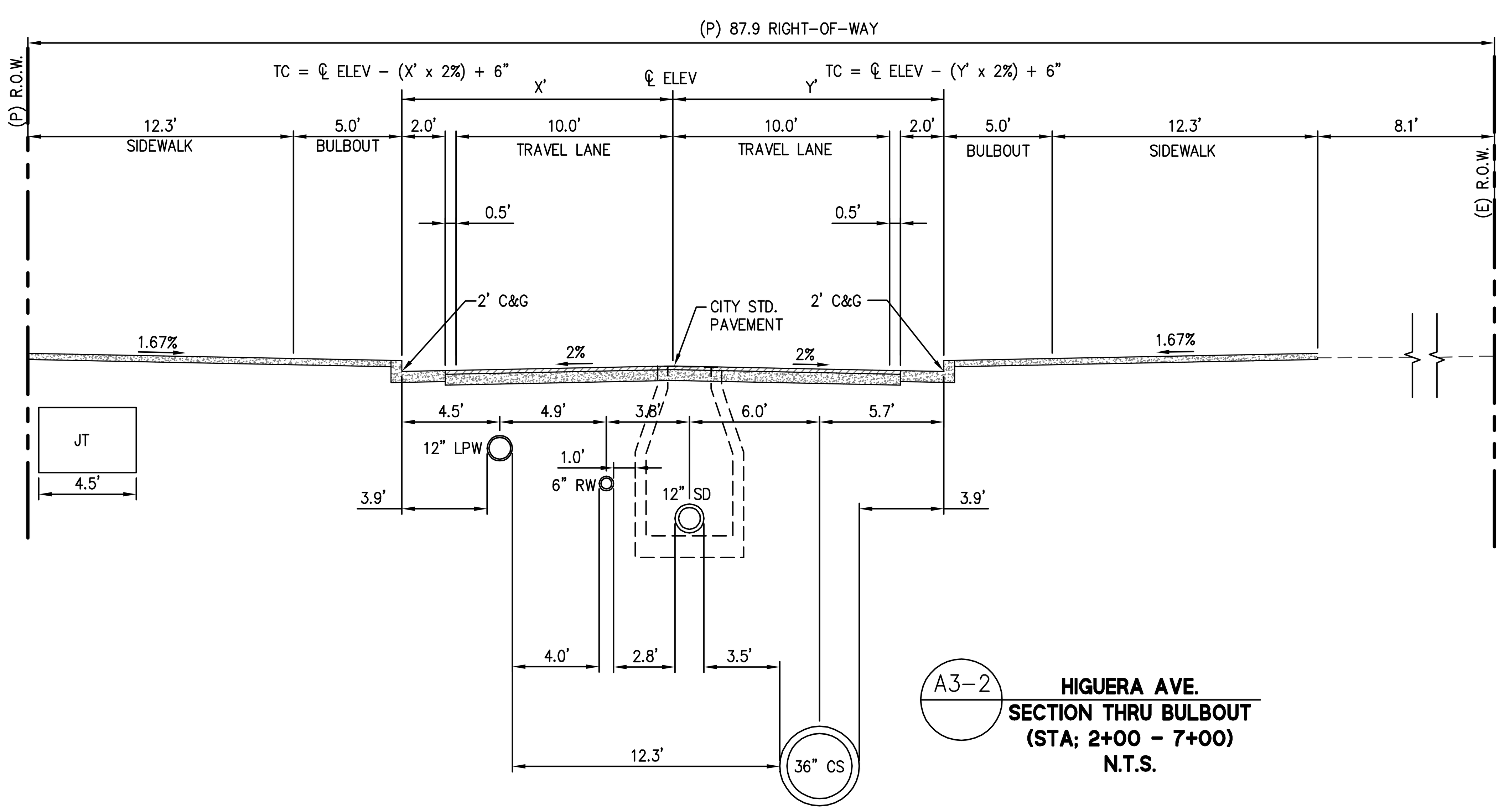
A2-1
ACEVEDO AVE.
SECTION THRU PARALLEL PARKING
(STA: 2+00 – 7+40)
N.T.S.



A2-2
ACEVEDO AVE.
SECTION THRU BULBOUT
(STA: 2+00 – 7+40)
N.T.S.



A3-1
HIGUERA AVE.
SECTION THRU PARALLEL PARKING
(STA; 2+00 – 7+00)
N.T.S.



A3-2
HIGUERA AVE.
SECTION THRU BULBOUT
(STA; 2+00 – 7+00)
N.T.S.

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TYPICAL STREET SECTIONS
SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

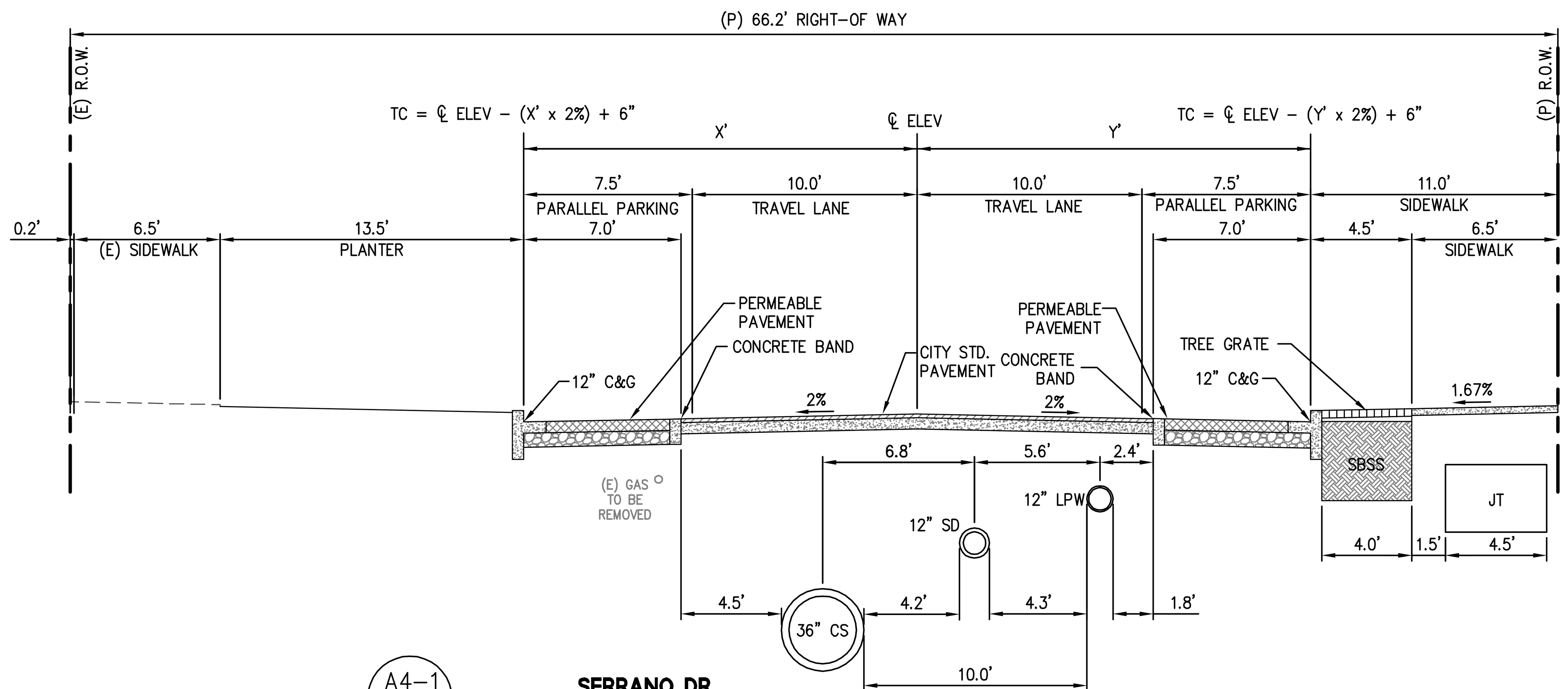
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

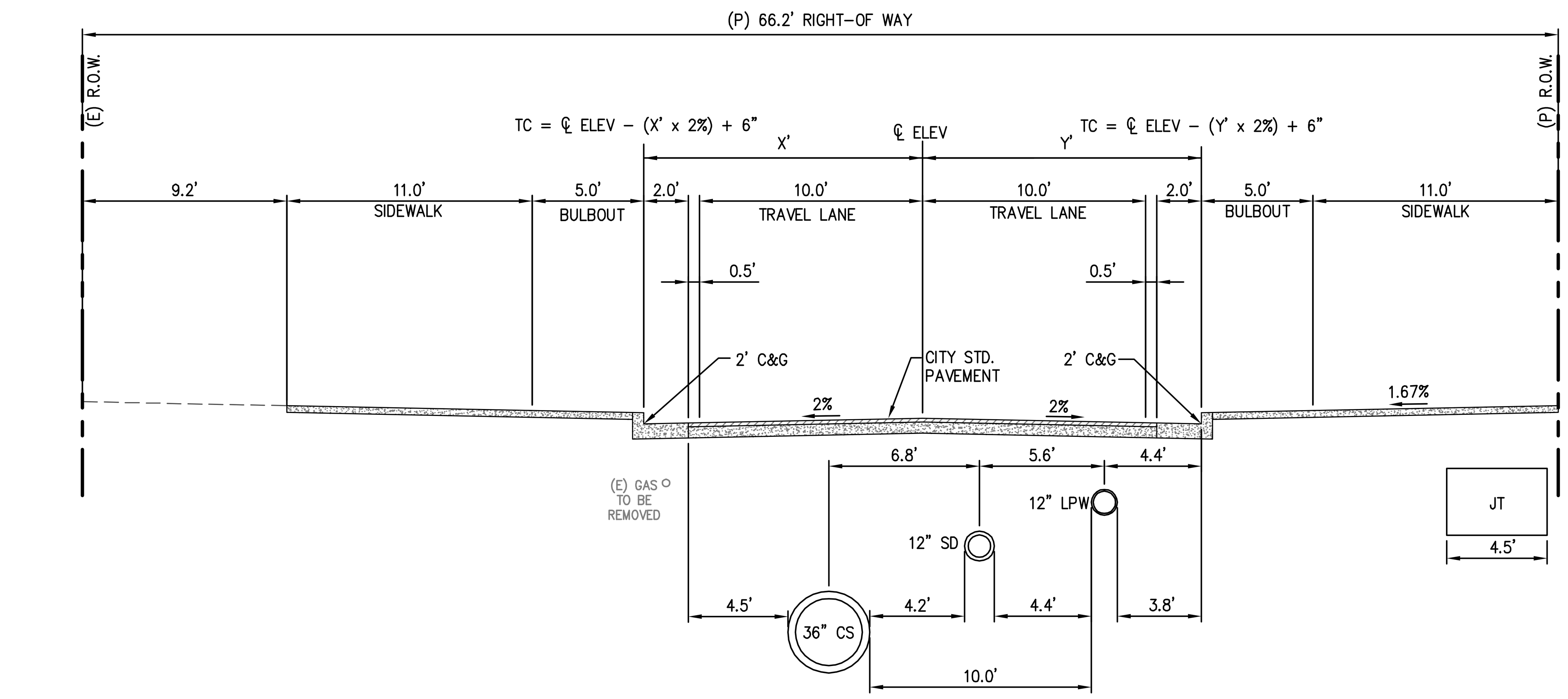
Drawing Number:
C1.05

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C100-Title.dwg (C1.05)
PLOT TIME: 4-27-2017 12:56 PM PLOTTED BY: bum

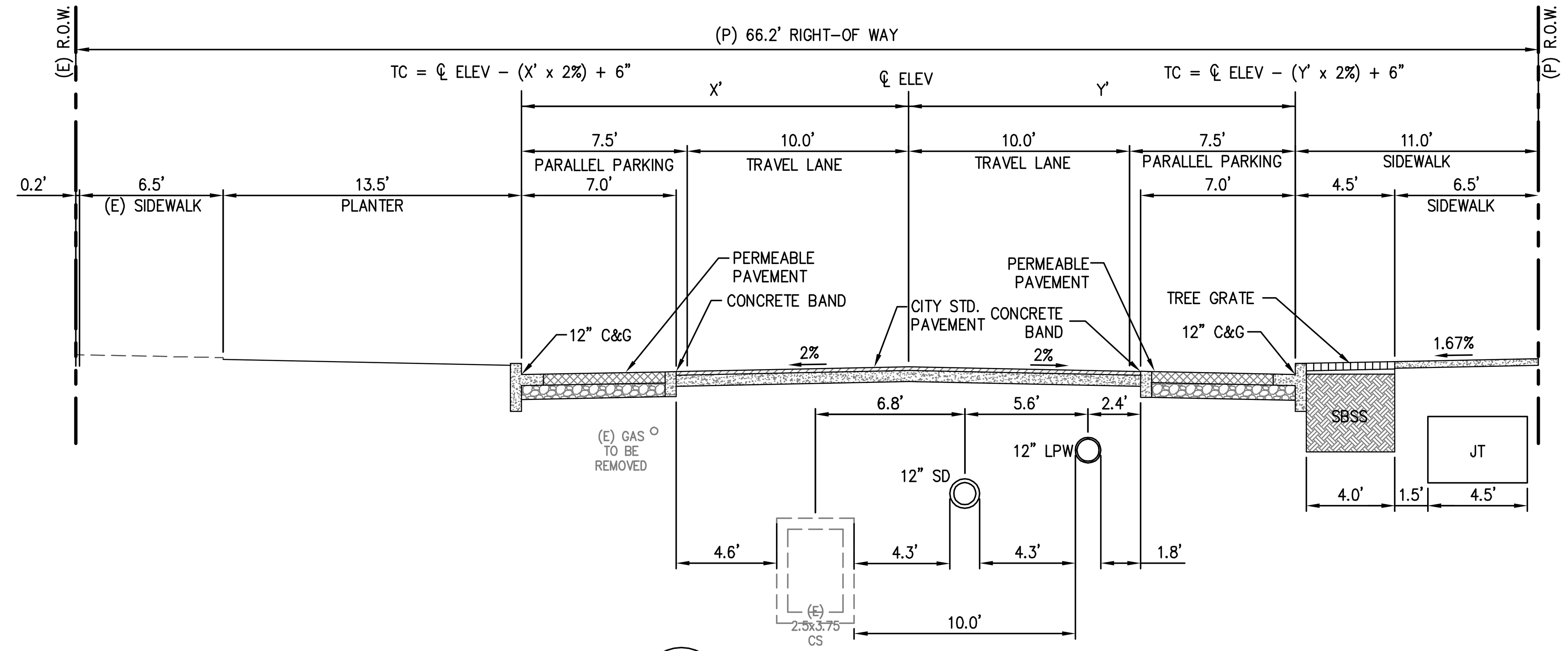
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



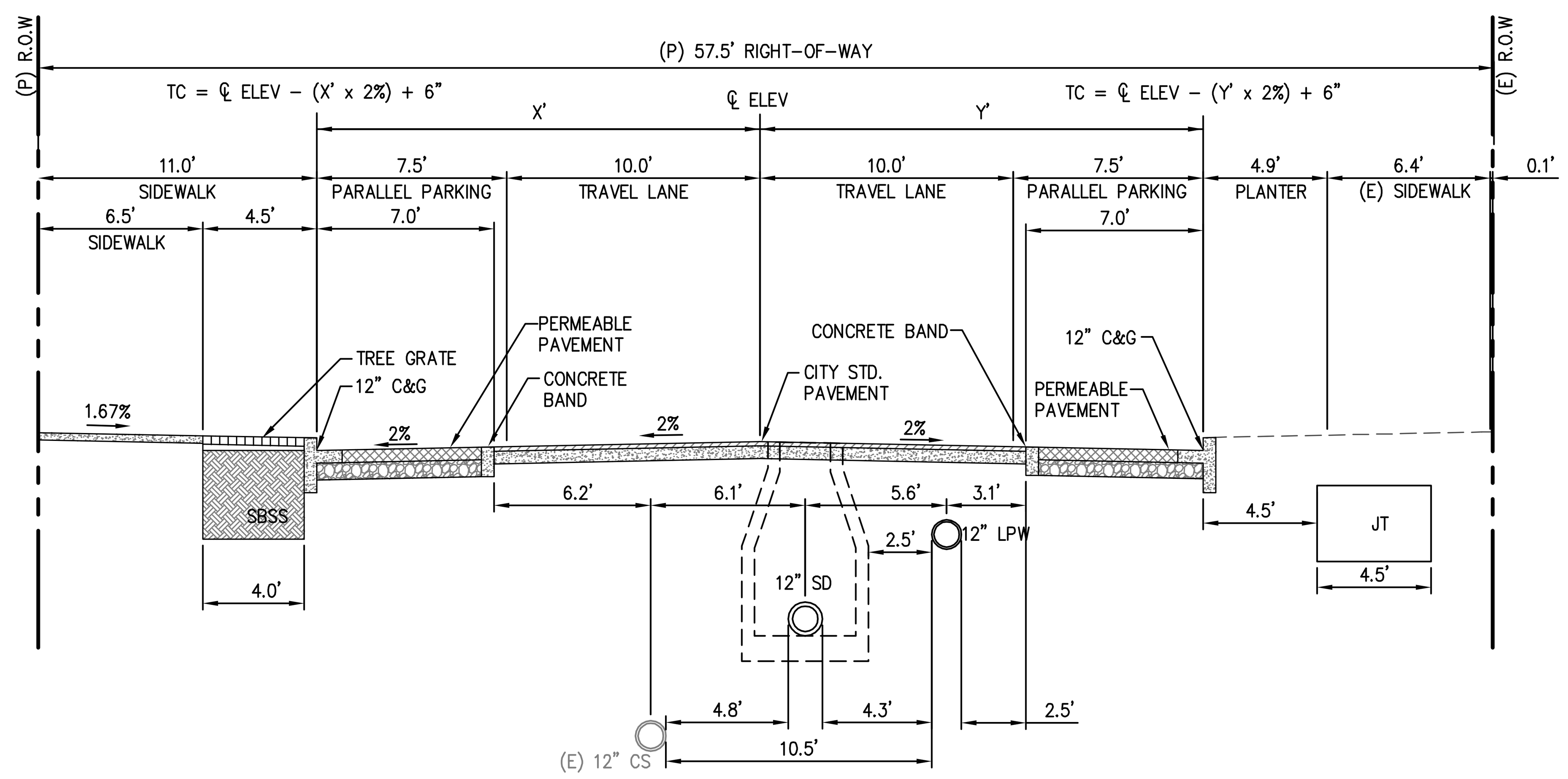
A4-1
SERRANO DR.
SECTION THRU PARALLEL PARKING
(STA: 10+10 – 12+32)
N.T.S.



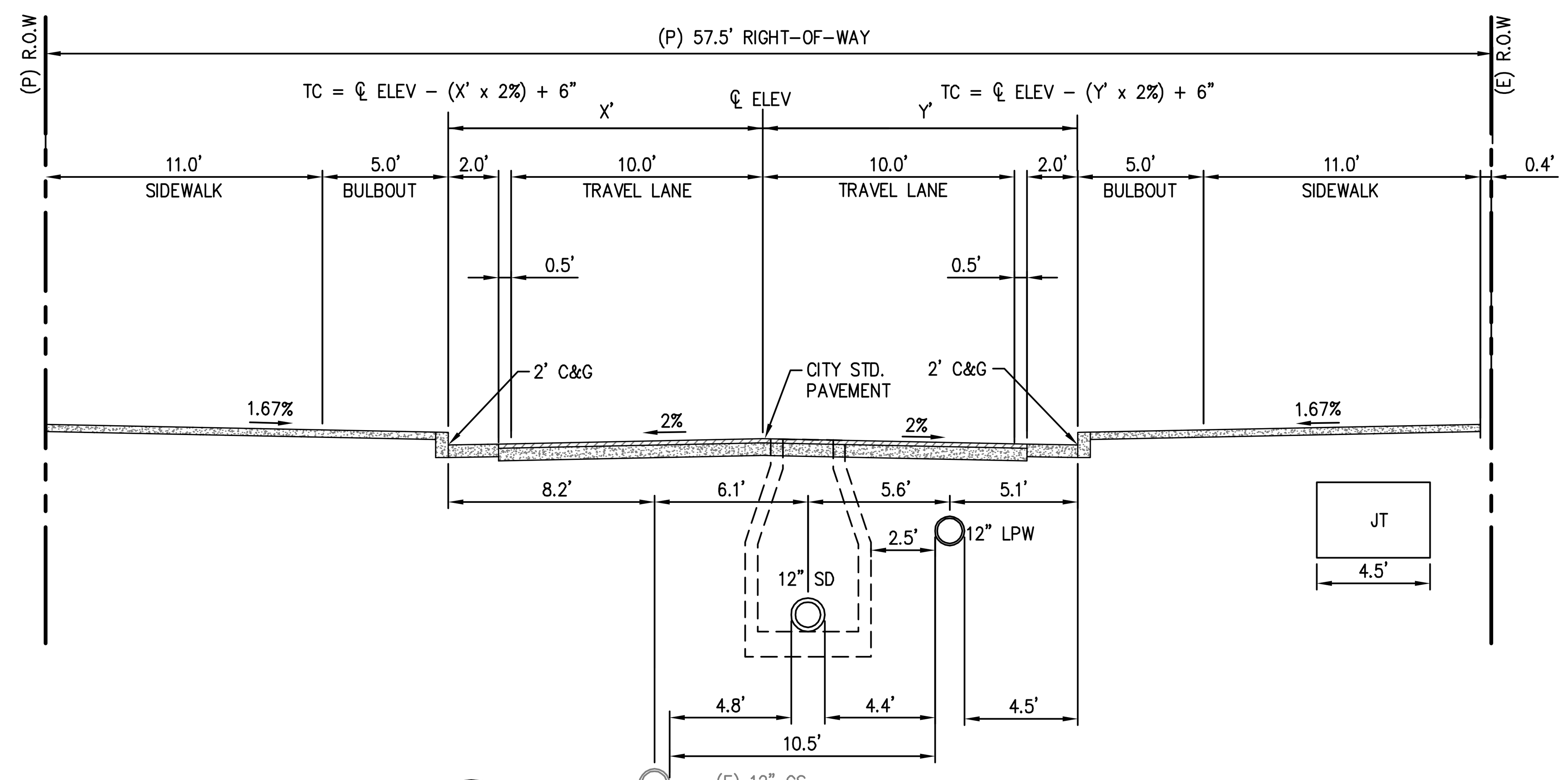
A4-2
SERRANO DR.
SECTION THRU BULBOUT
(STA: 10+10 – 12+32)
N.T.S.



A4-3
SERRANO DR.
SECTION THRU PARALLEL PARKING
(STA: 12+33 – 16+00)
N.T.S.



A5-1
GONZALEZ DRIVE
SECTION THRU PARALLEL PARKING
(STA: 10+00 – 15+00)
N.T.S.



A5-2
GONZALEZ DRIVE
SECTION THRU BULBOUTS
(STA: 10+00 – 15+00)
N.T.S.

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650-482-6300
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PHASE 1A STREET IMPROVEMENT PLANS
TYPICAL STREET SECTIONS

SAN FRANCISCO   SAN FRANCISCO COUNTY   CALIFORNIA

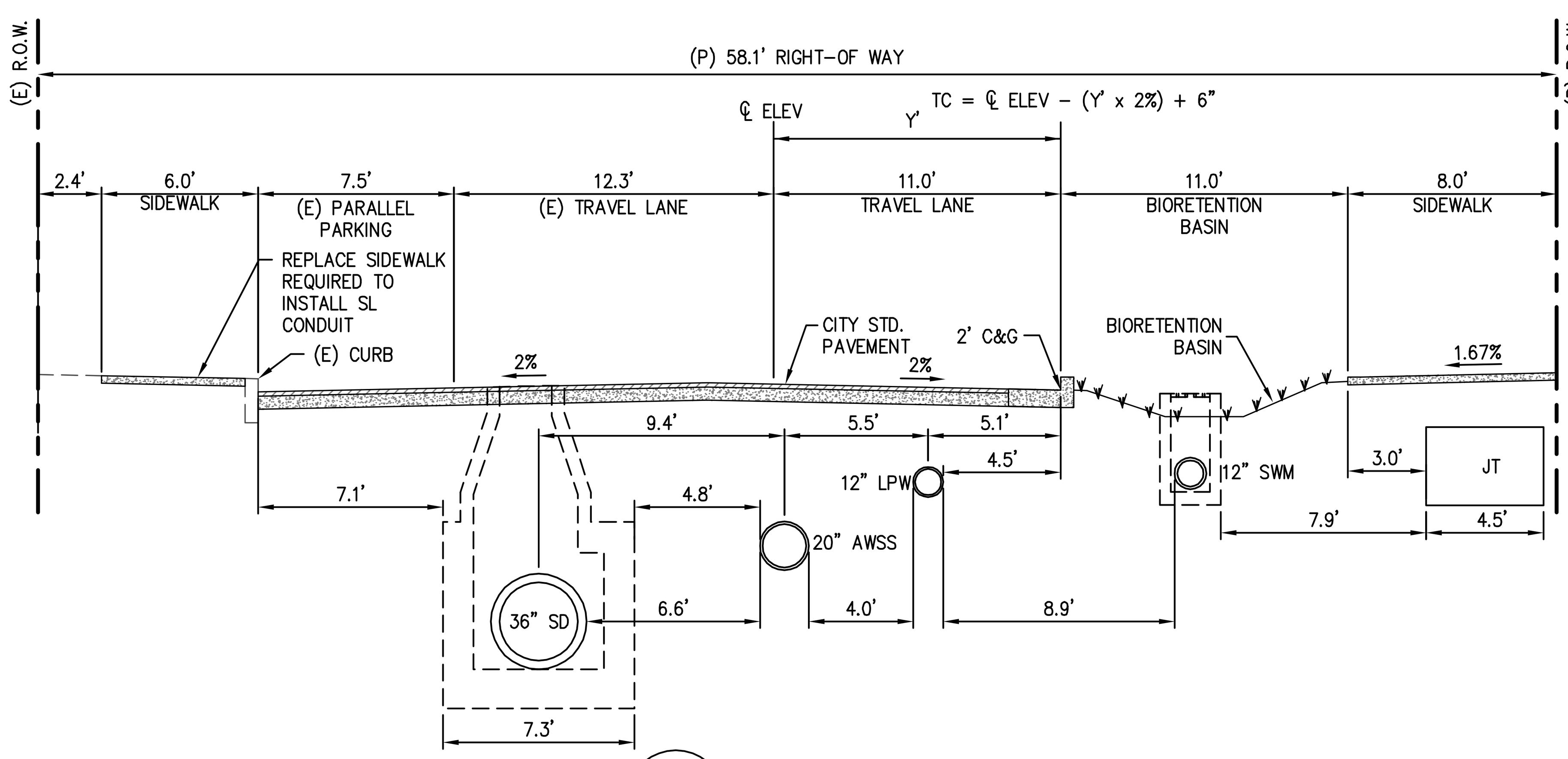
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

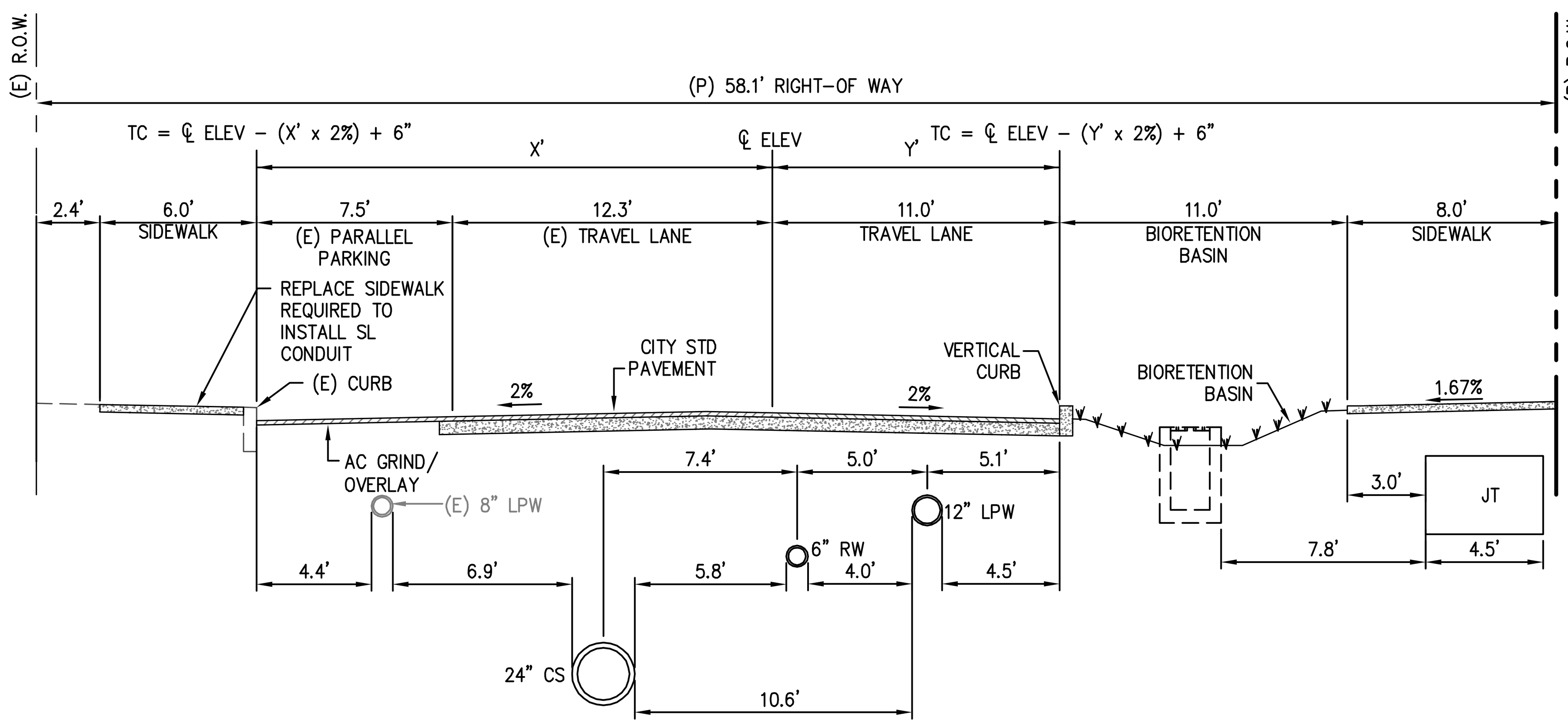
Drawing Number:
C1.06

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C100-Title.dwg (C1.06)
PLOT TIME: 4-27-2017 12:56 PM PLOTTED BY: bum

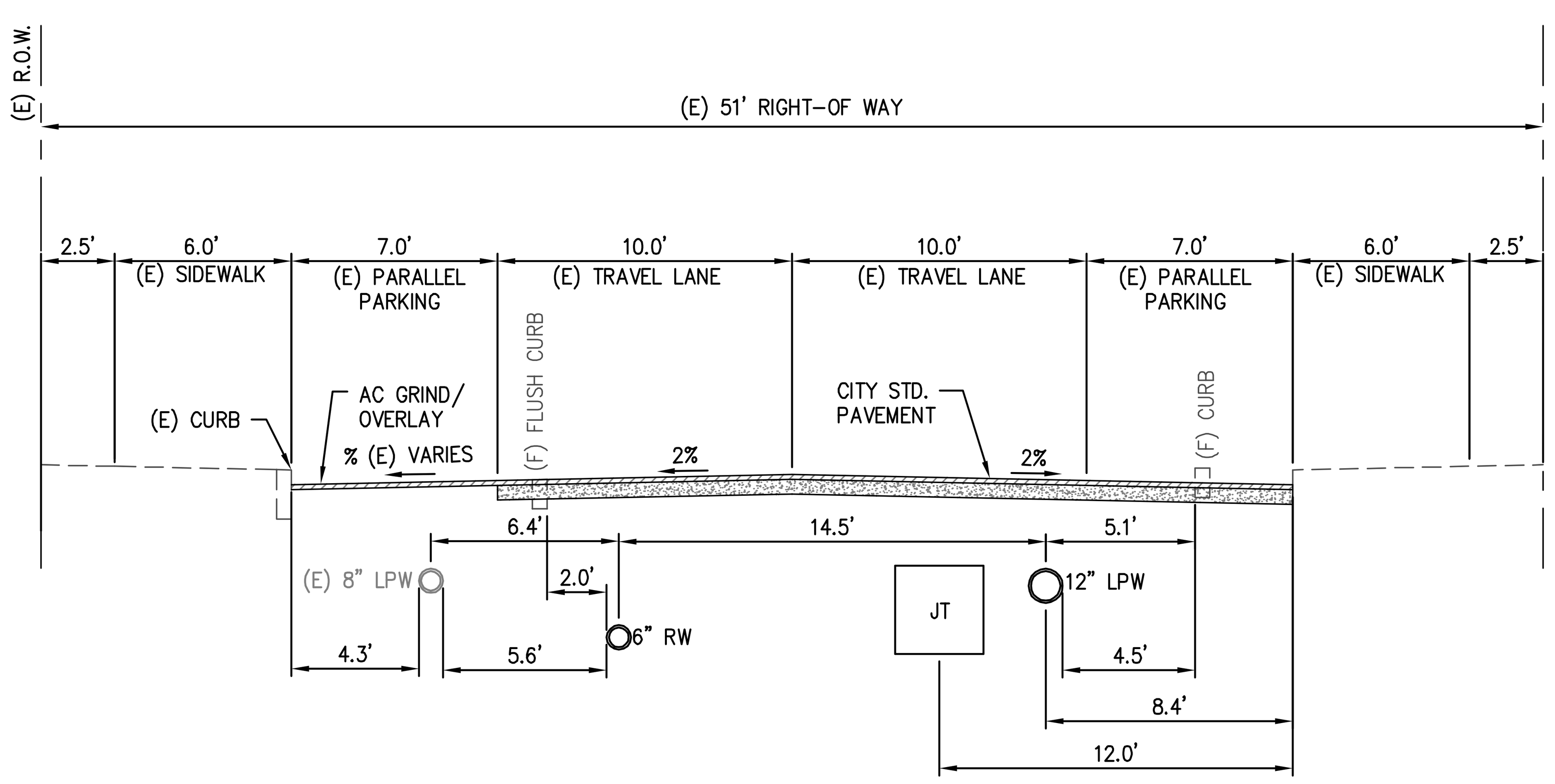
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



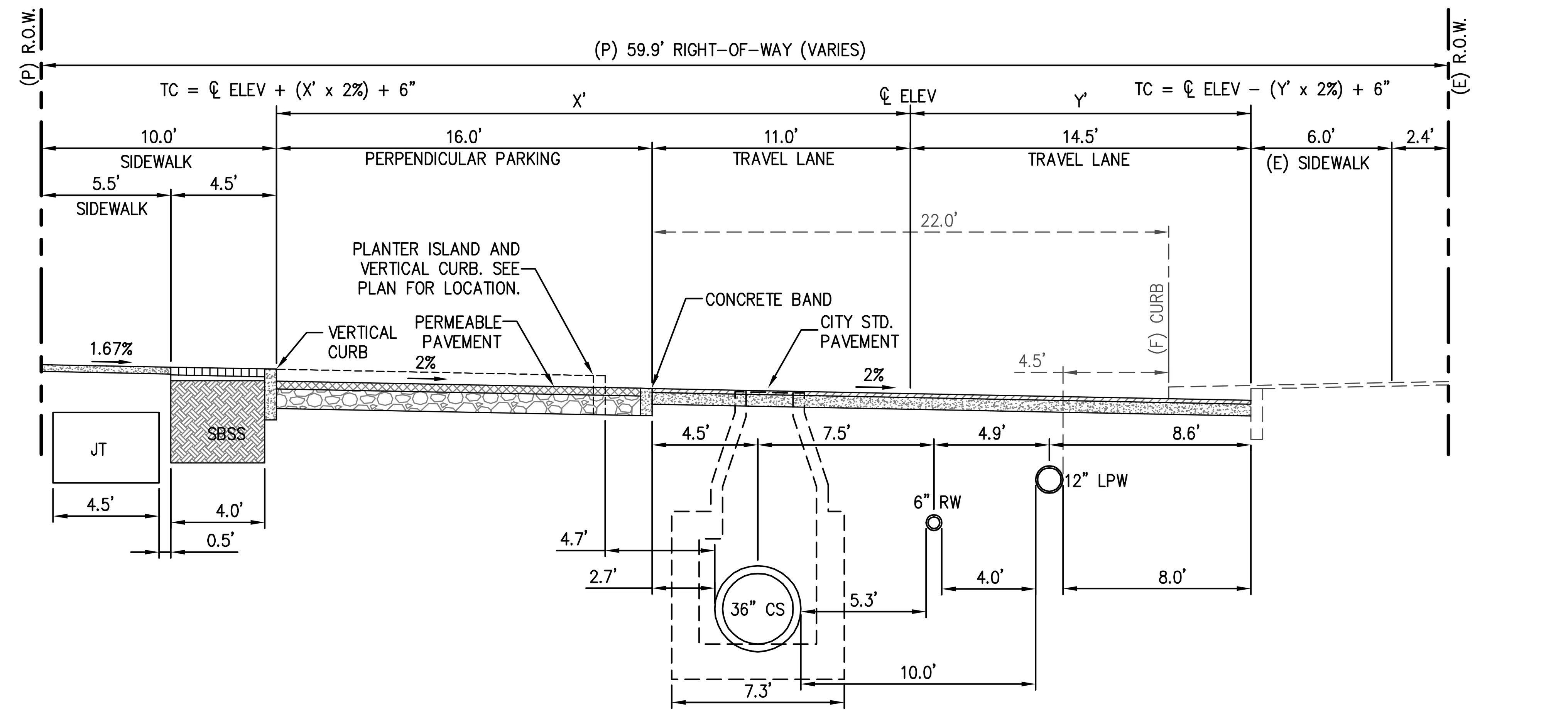
A6-1 **ARBALLO DR.**
(STA: 13+00 - 16+00)
N.T.S.



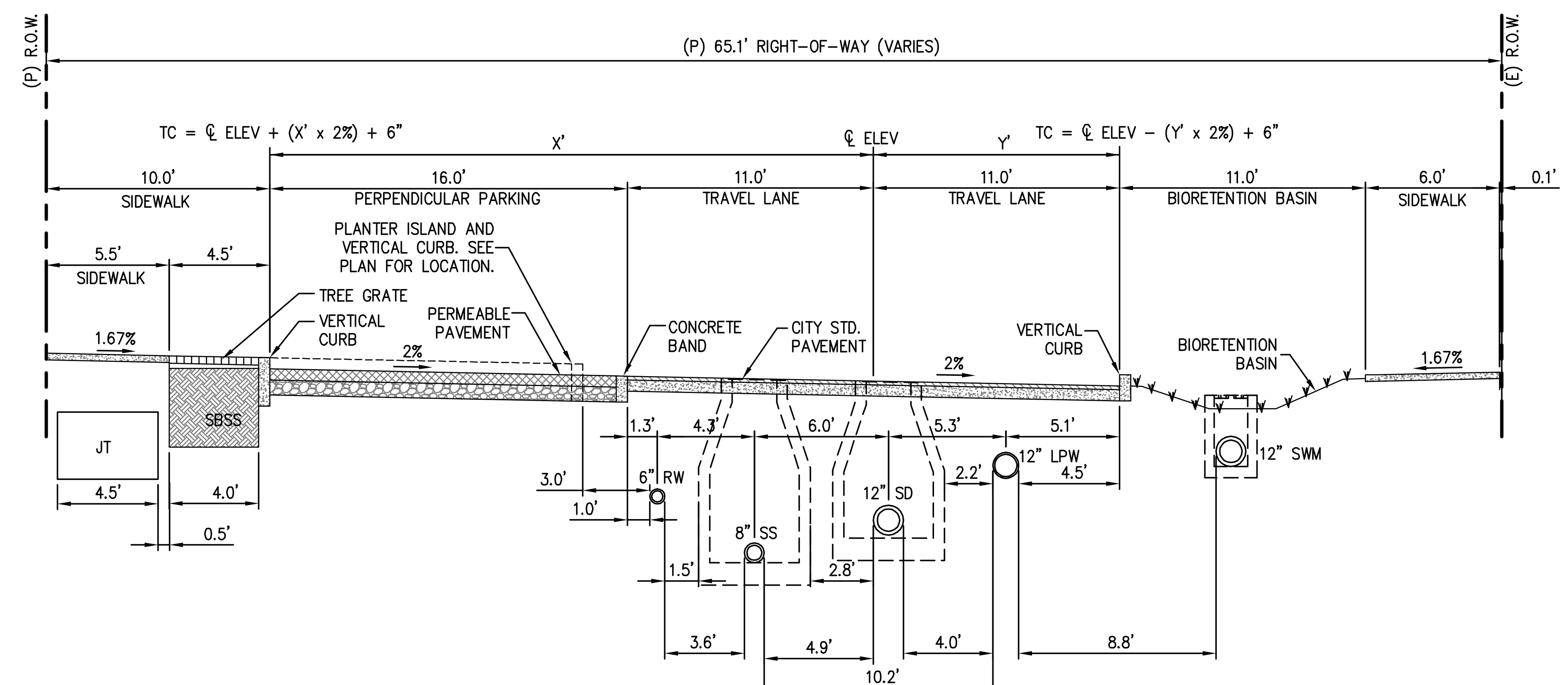
A6-2 **ARBALLO DR.**
(STA: 16+00 - 18+00)
N.T.S.



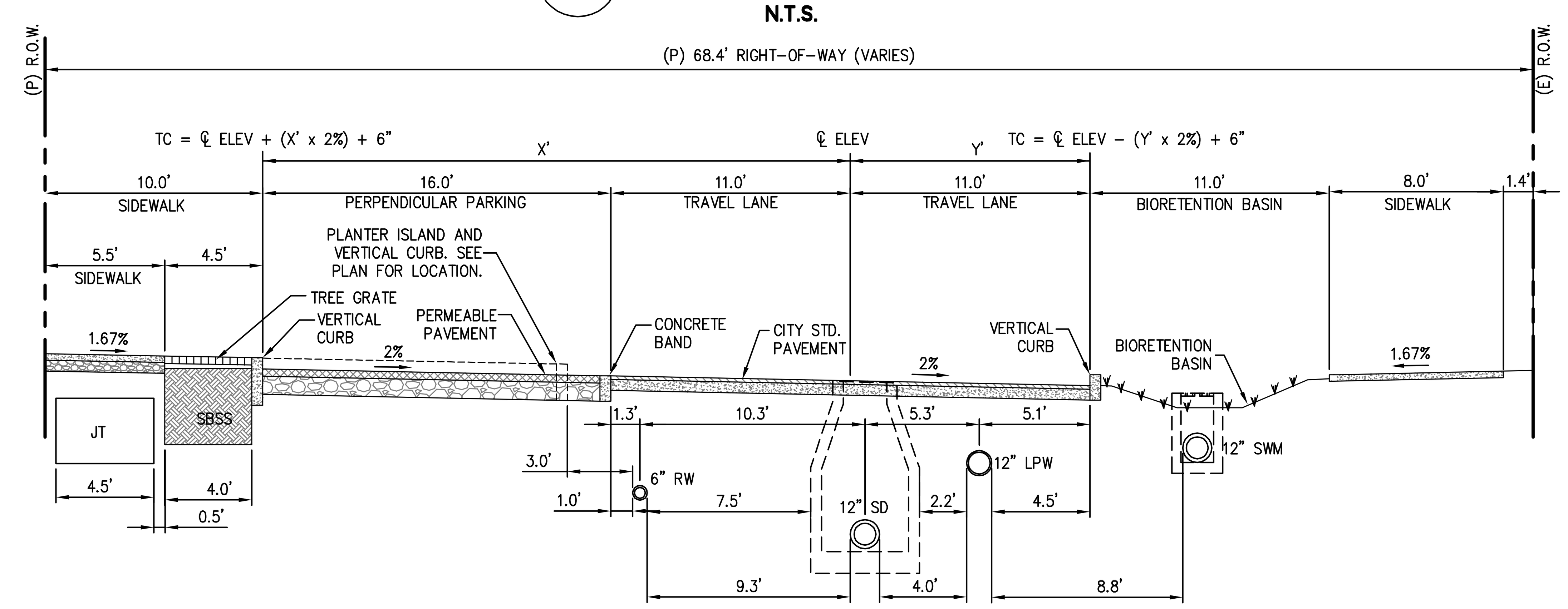
A6-3 **ARBALLO DR.**
(STA: 18+00 - 20+50)
N.T.S.



A6-4 **ARBALLO DR.**
(STA: 20+50 - 23+50)
N.T.S.



A6-5 **ARBALLO DR.**
(STA: 23+50 - 25+25)
N.T.S.



A6-6 **ARBALLO DR.**
(STA: 25+25 - 26+00)
N.T.S.

255 SHORELINE DR
SUITE 200
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PHASE 1A STREET IMPROVEMENT PLANS
TYPICAL STREET SECTIONS
SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

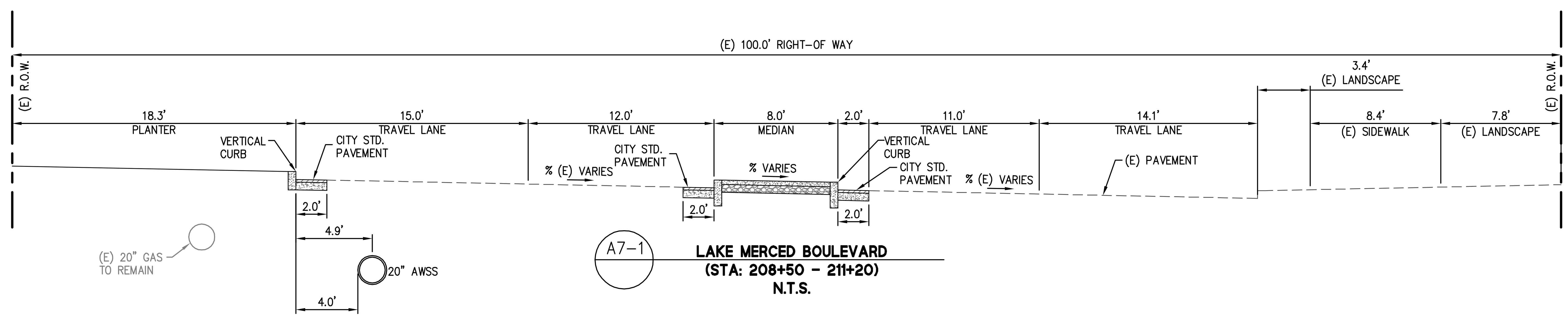
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

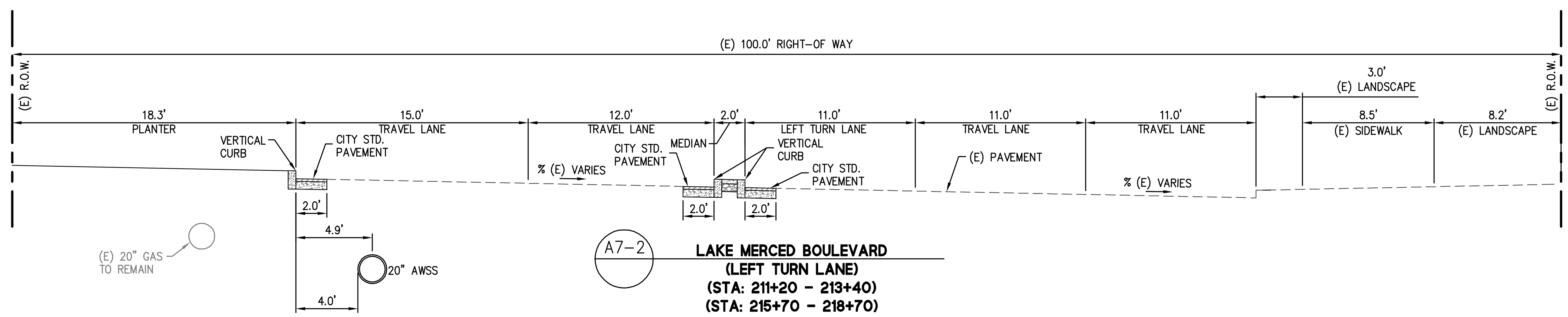
Drawing Number:
C1.07

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C100-Title.dwg (C1.07)
PLOT TIME: 4-27-2017 12:56 PM PLOTTED BY: bum

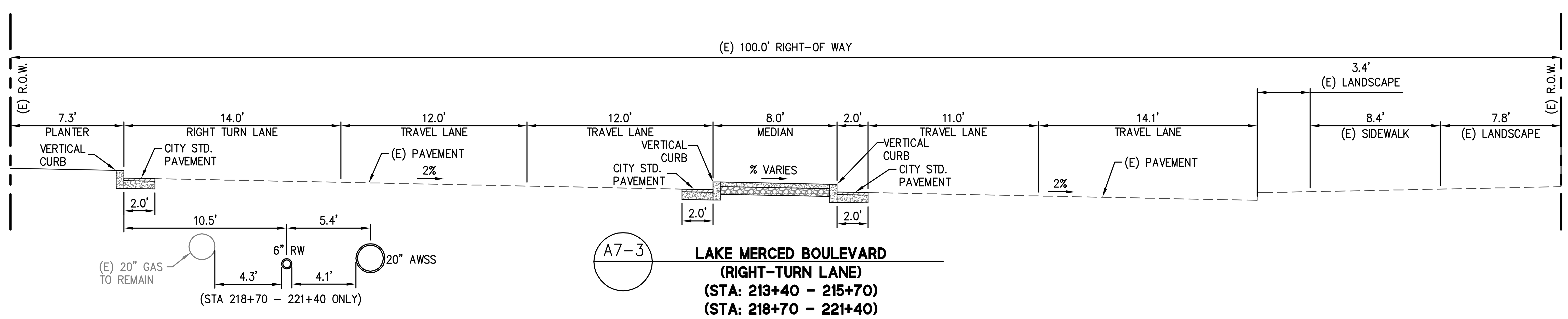
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



LAKE MERCED BOULEVARD
(STA: 208+50 – 211+20)
N.T.S.



LAKE MERCED BOULEVARD
(LEFT TURN LANE)
(STA: 211+20 – 213+40)
(STA: 215+70 – 218+70)
N.T.S.



LAKE MERCED BOULEVARD
(RIGHT-TURN LANE)
(STA: 213+40 – 215+70)
(STA: 218+70 – 221+40)
N.T.S.

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TYPICAL STREET SECTIONS
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

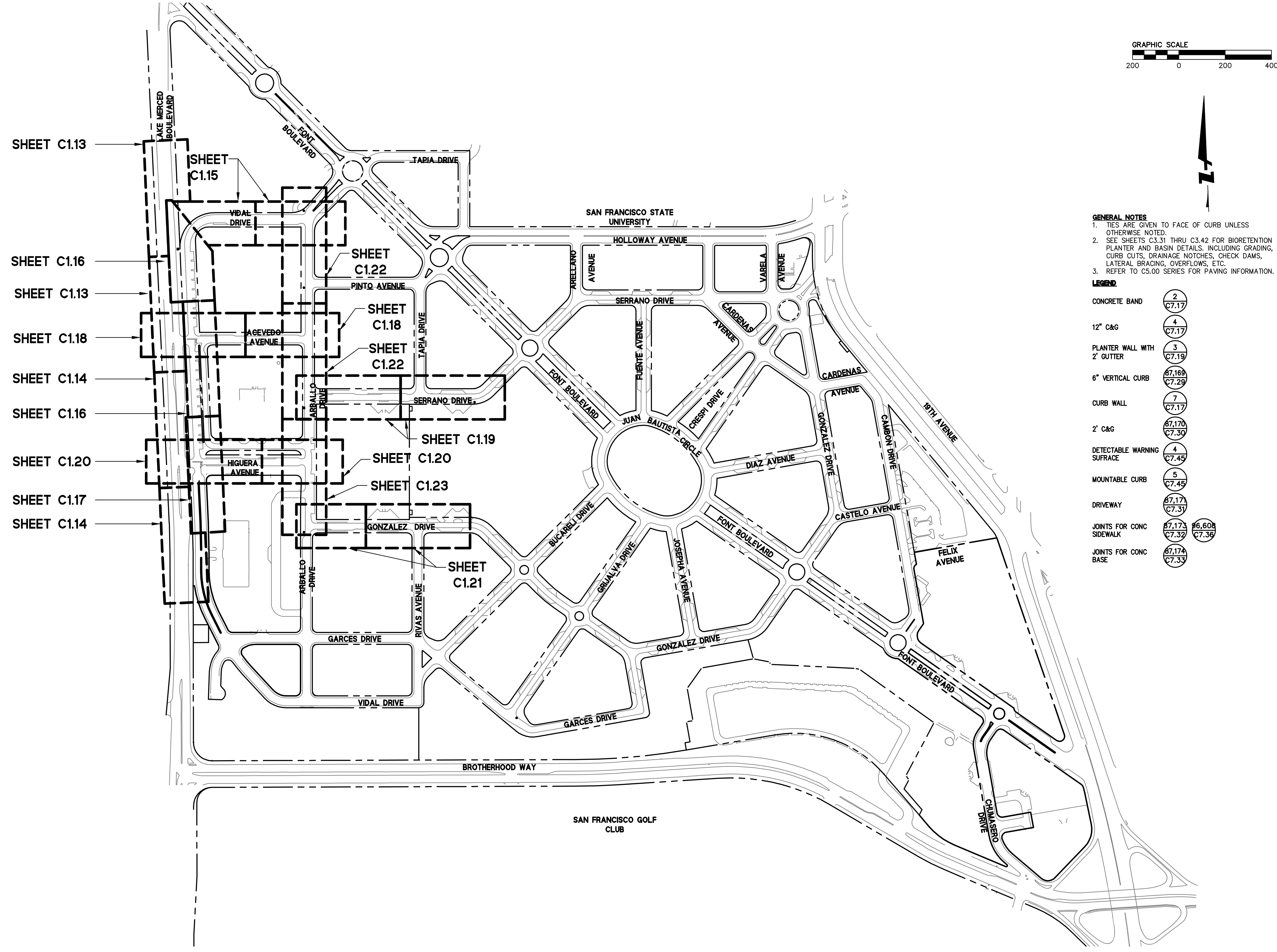
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C1.07A

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C100-Title.dwg (C1.07A)
PLOT TIME: 4-27-2017 12:56 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17



GENERAL NOTES

1. TIES ARE GIVEN TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. SEE SHEETS C3.31 THRU C3.42 FOR BIORETENTION PLANTER AND BASIN DETAILS. INCLUDING GRADING, CURB CUTS, DRAINAGE NOTCHES, CHECK DAMS, LATERAL BRACING, OVERFLOWS, ETC.
3. REFER TO C5.00 SERIES FOR PAVING INFORMATION.

LEGEND

CONCRETE BAND	2 / C7.17
12" C&G	4 / C7.17
PLANTER WALL WITH 2' GUTTER	3 / C7.19
6" VERTICAL CURB	87,169 / C7.29
CURB WALL	7 / C7.17
2' C&G	87,170 / C7.30
DETECTABLE WARNING SUFRACE	4 / C7.45
MOUNTABLE CURB	5 / C7.45
DRIVEWAY	87,171 / C7.31
JOINTS FOR CONC SIDEWALK	87,173 / C7.32; 96,608 / C7.36
JOINTS FOR CONC BASE	87,174 / C7.33

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PHASE 1A STREET IMPROVEMENT PLANS

HORIZONTAL CONTROL PLAN - KEY MAP

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=200'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C1.08

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C101-HC.dwg (C1.08)
PLOT TIME: 4-27-2017 1:00 PM PLOTTED BY: burn

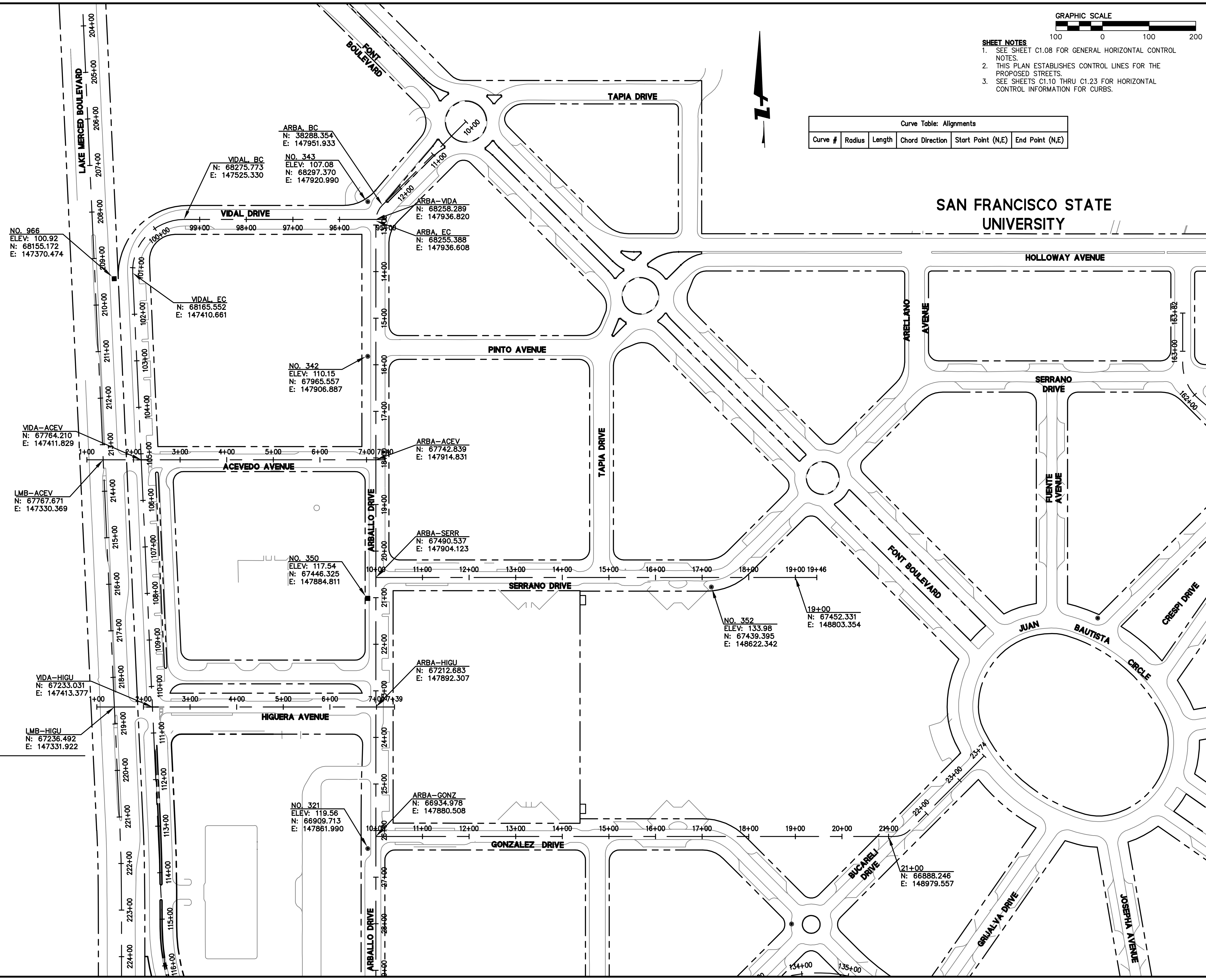
APPROVED SET FOR BOARD SUBMITTAL 05.01.17

GRAPHIC SCALE
100 0 100 200

SHEET NOTES
1. SEE SHEET C1.08 FOR GENERAL HORIZONTAL CONTROL NOTES.
2. THIS PLAN ESTABLISHES CONTROL LINES FOR THE PROPOSED STREETS.
3. SEE SHEETS C1.10 THRU C1.23 FOR HORIZONTAL CONTROL INFORMATION FOR CURBS.

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point (N,E)	End Point (N,E)



BASIS OF BEARING

MONUMENT #	NORTHING	EASTING	ELEVATION
325	66406.0870	148433.2270	129.86
318	66709.4630	148763.5290	137.66
306	67337.6660	149447.4720	149.55

Line Table: Alignments

Line #	Length	Direction	Start Point (N,E)	End Point (N,E)

255 SHORELINE DR
SUITE 200
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650–482–6300
650–482–6399 (FAX)
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PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
HORIZONTAL CONTROL PLAN

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

No. | Revisions

Date: 05/01/17
Scale: 1"=100'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C1.09

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C101-HC.dwg (C1.09)
PLOT TIME: 4-27-2017 1:00 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

VIDAL DRIVE

Line Table				
Line #	Length	Direction	Start Point (N,E)	End Point (N,E)
L26	5.52	N87° 34' 01.61"W	(68297.028,147540.691)	(68297.028,147535.175)
L27	375.38	S0° 10' 00.87"E	(67791.386,147399.657)	(67791.386,147400.751)
L28	466.48	S0° 10' 00.87"E	(67260.206,147400.939)	(67260.206,147402.298)
L29	3.74	S0° 10' 00.87"E	(67191.684,147402.487)	(67191.684,147402.498)
L30	28.08	S0° 10' 00.87"E	(67140.772,147392.064)	(67140.772,147392.146)
L31	5.00	S0° 10' 00.87"E	(67133.838,147414.152)	(67133.838,147414.166)
L32	5.00	S0° 10' 00.87"E	(67133.856,147420.152)	(67133.856,147420.166)
L33	4.83	S87° 34' 01.61"E	(68243.411,147905.249)	(68243.411,147910.076)
L34	299.50	N87° 34' 01.61"W	(68252.039,147888.470)	(68252.039,147589.239)
L35	50.11	S87° 34' 01.61"E	(68259.523,147527.917)	(68259.523,147577.982)
L36	17.84	S0° 10' 00.87"E	(68143.609,147423.673)	(68143.609,147423.725)
L37	12.00	S89° 49' 59.13"W	(68141.615,147437.730)	(68141.615,147425.730)
L38	36.00	S0° 10' 00.87"E	(68105.650,147437.730)	(68105.650,147437.835)
L39	12.00	N89° 49' 59.13"E	(68105.650,147425.835)	(68105.650,147437.835)
L40	1.50	N0° 10' 00.87"W	(68103.609,147423.846)	(68103.609,147423.841)
L41	14.00	S89° 49' 59.13"W	(68100.115,147439.851)	(68100.115,147425.851)
L42	36.00	S0° 10' 00.87"E	(68064.156,147439.851)	(68064.156,147439.956)
L43	14.00	N89° 49' 59.13"E	(68064.156,147425.956)	(68064.156,147439.956)
L44	1.50	N0° 10' 00.87"W	(68062.109,147423.966)	(68062.109,147423.962)
L45	12.00	S89° 49' 59.13"W	(68058.615,147437.972)	(68058.615,147425.972)
L46	36.00	S0° 10' 00.87"E	(68022.650,147437.972)	(68022.650,147438.077)
L47	12.00	N89° 49' 59.13"E	(68022.650,147426.077)	(68022.650,147438.077)
L48	1.50	N0° 10' 00.87"W	(68020.610,147424.087)	(68020.610,147424.083)
L49	12.00	S89° 49' 59.13"W	(68017.115,147438.093)	(68017.115,147426.093)
L50	36.00	S0° 10' 00.87"E	(67981.151,147438.093)	(67981.151,147438.198)
L51	12.00	N89° 49' 59.13"E	(67981.151,147426.198)	(67981.151,147438.198)
L52	1.50	N0° 10' 00.87"W	(67979.110,147424.208)	(67979.110,147424.204)
L53	14.00	S89° 49' 59.13"W	(67975.616,147440.214)	(67975.616,147426.214)
L54	35.00	S0° 10' 00.87"E	(67940.656,147440.214)	(67940.656,147440.316)
L55	14.00	N89° 49' 59.13"E	(67940.656,147426.316)	(67940.656,147440.316)
L56	1.50	N0° 10' 00.87"W	(67938.609,147424.326)	(67938.609,147424.322)
L57	12.00	S89° 49' 59.13"W	(67935.115,147438.332)	(67935.115,147426.332)
L58	36.00	S0° 10' 00.87"E	(67899.151,147438.332)	(67899.151,147438.437)
L58	36.00	S0° 10' 00.87"E	(67899.151,147438.332)	(67899.151,147438.437)
L59	12.00	N89° 49' 59.13"E	(67899.151,147426.437)	(67899.151,147438.437)
L60	1.50	N0° 10' 00.87"W	(67897.110,147424.447)	(67897.110,147424.443)
L61	12.00	S89° 49' 59.13"W	(67893.616,147438.453)	(67893.616,147426.453)
L62	36.00	S0° 10' 00.87"E	(67857.651,147438.453)	(67857.651,147438.558)
L63	12.00	N89° 49' 59.13"E	(67857.651,147426.558)	(67857.651,147438.558)
L64	1.50	N0° 10' 00.87"W	(67855.610,147424.568)	(67855.610,147424.564)
L65	12.00	S89° 49' 59.13"W	(67852.116,147438.574)	(67852.116,147426.574)
L66	36.00	N0° 10' 00.87"W	(67852.151,147438.679)	(67852.151,147438.574)
L67	12.00	N89° 49' 59.13"E	(67816.151,147426.679)	(67816.151,147438.679)
L68	7.20	S0° 10' 00.87"E	(67806.914,147424.685)	(67806.914,147424.705)
L69	8.94	S13° 04' 48.40"E	(67787.032,147426.003)	(67787.032,147428.027)
L70	6.73	S15° 04' 38.90"W	(67728.268,147428.443)	(67728.268,147426.694)
L71	4.99	S0° 10' 00.87"E	(67710.130,147424.973)	(67710.130,147424.987)
L72	14.00	S89° 49' 59.13"W	(67708.136,147440.993)	(67708.136,147426.993)
L73	35.00	S0° 10' 00.87"E	(67673.177,147440.993)	(67673.177,147441.095)
L74	14.00	S89° 49' 59.13"W	(67673.136,147441.095)	(67673.136,147427.095)
L75	1.50	S0° 10' 00.87"E	(67669.630,147425.101)	(67669.630,147425.105)

Line Table				
Line #	Length	Direction	Start Point (N,E)	End Point (N,E)
L76	12.00	S89° 49' 59.13"W	(67667.636,147439.111)	(67667.636,147427.111)
L77	36.00	S0° 10' 00.87"E	(67631.671,147439.111)	(67631.671,147439.216)
L78	12.00	S89° 49' 59.13"W	(67631.636,147439.216)	(67631.636,147427.216)
L79	1.50	S0° 10' 00.87"E	(67628.130,147425.222)	(67628.130,147425.226)
L80	12.00	S89° 49' 59.13"W	(67626.136,147439.232)	(67626.136,147427.232)
L81	36.00	S0° 10' 00.87"E	(67590.171,147439.232)	(67590.171,147439.337)
L82	12.00	S89° 49' 59.13"W	(67590.136,147439.337)	(67590.136,147427.337)
L83	1.50	S0° 10' 00.87"E	(67586.631,147425.343)	(67586.631,147425.347)
L84	12.00	S89° 49' 59.13"W	(67584.637,147439.353)	(67584.637,147427.353)
L85	36.00	S0° 10' 00.87"E	(67548.672,147439.353)	(67548.672,147439.458)
L86	12.00	S89° 49' 59.13"W	(67548.637,147439.458)	(67548.637,147427.458)
L87	1.50	S0° 10' 00.87"E	(67545.131,147425.464)	(67545.131,147425.468)
L88	12.00	S89° 49' 59.13"W	(67543.137,147439.474)	(67543.137,147427.474)
L89	26.00	S0° 10' 00.87"E	(67517.172,147439.474)	(67517.172,147439.550)
L90	12.00	S89° 49' 59.13"W	(67517.137,147439.550)	(67517.137,147427.550)
L91	1.50	S0° 10' 00.87"E	(67513.631,147425.555)	(67513.631,147425.560)
L92	12.00	S89° 49' 59.13"W	(67511.637,147439.566)	(67511.637,147427.566)
L93	36.00	S0° 10' 00.87"E	(67475.672,147439.566)	(67475.672,147439.671)
L94	12.00	S89° 49' 59.13"W	(67475.637,147439.671)	(67475.637,147427.671)
L95	1.50	S0° 10' 00.87"E	(67472.131,147425.676)	(67472.131,147425.681)
L96	12.00	S89° 49' 59.13"W	(67470.137,147439.687)	(67470.137,147427.687)
L97	36.00	S0° 10' 00.87"E	(67434.172,147439.687)	(67434.172,147439.791)
L98	12.00	S89° 49' 59.13"W	(67434.137,147439.791)	(67434.137,147427.791)
L99	1.50	S0° 10' 00.87"E	(67430.631,147425.797)	(67430.631,147425.802)
L100	12.00	S89° 49' 59.13"W	(67428.637,147439.807)	(67428.637,147427.807)
L101	36.00	S0° 10' 00.87"E	(67392.672,147439.807)	(67392.672,147439.912)
L102	12.00	S89° 49' 59.13"W	(67392.637,147439.912)	(67392.637,147427.912)
L103	1.50	S0° 10' 00.87"E	(67389.132,147425.918)	(67389.132,147425.923)
L104	12.00	S89° 49' 59.13"W	(67387.137,147439.928)	(67387.137,147427.928)
L105	36.00	S0° 10' 00.87"E	(67351.172,147439.928)	(67351.172,147440.033)
L106	12.00	S89° 49' 59.13"W	(67351.137,147440.033)	(67351.137,147428.033)
L107	1.50	S0° 10' 00.87"E	(67347.632,147426.039)	(67347.632,147426.043)
L108	12.00	S89° 49' 59.13"W	(67345.638,147440.049)	(67345.638,147428.049)
L109	27.00	S0° 10' 00.87"E	(67318.673,147440.049)	(67318.673,147440.128)
L110	12.00	S89° 49' 59.13"W	(67318.638,147440.128)	(67318.638,147428.128)
L111	1.50	S0° 10' 00.87"E	(67315.132,147426.134)	(67315.132,147426.138)
L112	14.00	S89° 49' 59.13"W	(67313.138,147442.144)	(67313.138,147428.144)
L113	26.00	S0° 10' 00.87"E	(67287.179,147442.144)	(67287.179,147442.220)
L114	14.00	S89° 49' 59.13"W	(67287.138,147442.220)	(67287.138,147428.220)
L115	8.45	S0° 10' 00.87"E	(67276.678,147426.226)	(67276.678,147426.250)
L116	10.56	N11° 57' 17.26"W	(67266.466,147429.521)	(67266.466,147427.334)
L117	18.89	S0° 10' 00.87"E	(67185.250,147429.461)	(67185.250,147429.516)
L118	19.78	S0° 10' 00.87"E	(67140.923,147442.398)	(67140.923,147442.456)
L119	10.75	N87° 34' 01.61"W	(67745.847,147454.306)	(67745.847,147443.564)
L120	390.56	S0° 10' 00.87"E	(67325.920,147448.969)	(67325.920,147450.107)
L120	390.56	S0° 10' 00.87"E	(67325.920,147448.969)	(67325.920,147450.107)
L121	37.09	S87° 34' 07.66"E	(67284.499,147488.410)	(67284.499,147525.467)
L122	5.23	N87° 34' 01.61"W	(67743.975,147498.507)	(67743.975,147493.278)
L123	19.71	N87° 34' 07.66"W	(67307.657,147517.937)	(67307.657,147498.246)
L217	18.30	N42° 49' 52.53"E	(68316.413,147933.825)	(68316.413,147946.265)
L218	49.57	N87° 34' 01.61"W	(68282.954,147913.453)	(68282.954,147863.925)

Curve Table					
Curve #	Length	Radius	Cord Direction	Start Point (N,E)	End Point (N,E)
C26	11.25	20.00	S26° 42' 58.21"W	(68302.994,147933.825)	(68293.076,147928.834)
C27	21.42	15.00	N51° 31' 01.14"E	(68280.849,147913.453)	(68293.076,147928.834)
C28	210.10	130.00	S46° 07' 58.76"W	(68297.028,147535.175)	(68166.767,147399.657)
C29	24.24	15.00	N46° 07' 58.76"E	(67776.355,147385.114)	(67791.386,147400.751)
C30	32.28	15.00	N61° 49' 15.24"W	(67726.683,147400.939)	(67739.150,147377.669)
C31	24.24	15.00	N46° 07' 58.76"E	(67245.176,147386.661)	(67260.206,147402.298)
C32	32.30	15.00	N61° 50' 48.40"W	(67195.425,147402.487)	(67207.886,147379.202)
C33	8.63	10.00	N24° 33' 44.25"E	(67184.074,147399.020)	(67191.684,147402.498)
C34	17.26	20.00	S24° 33' 44.25"W	(67184.074,147399.020)	(67168.855,147392.064)
C35	9.42	3.00	S89° 49' 59.13"W	(67138.856,147420.152)	(67138.838,147414.152)
C36	23.56	15.00	N42° 34' 01.61"W	(68227.788,147924.426)	(68243.411,147910.076)
C37	5.86	10.00	S75° 39' 15.23"W	(68243.617,147905.249)	(68242.186,147899.656)
C38	11.71	20.00	N75° 39' 15.23"E	(68239.325,147888.469)	(68242.186,147899.656)
C39	6.24	20.00	S56° 34' 03.98"E	(68256.919,147584.298)	(68253.493,147589.488)
C40	6.97	10.00	N67° 35' 41.48"W	(68256.919,147584.298)	(68259.523,147577.982)
C41	161.62	100.00	S46° 07' 58.76"W	(68261.650,147527.917)	(68161.449,147423.673)
C42	3.14	2.00	S45° 10' 00.87"E	(68143.609,147423.725)	(68141.615,147425.730)
C43	3.14	2.00	S44° 49' 59.13"W	(68105.615,147425.835)	(68103.609,147423.841)
C44	3.14	2.00	S45° 10' 00.87"E	(68102.109,147423.846)	(68100.115,147425.851)
C45	3.14	2.00	S44° 49' 59.13"W	(68064.115,147425.956)	(68062.109,147423.962)
C46	3.14	2.00	S45° 10' 00.87"E	(68060.609,147423.966)	(68058.615,147425.972)
C47	3.14	2.00	S44° 49' 59.13"W	(68022.615,147426.077)	(68020.610,147424.083)
C48	3.14	2.00	S45° 10' 00.87"E	(68019.110,147424.087)	(68017.115,147426.093)
C49	3.14	2.00	S44° 49' 59.13"W	(67981.116,147426.198)	(67979.110,147424.204)
C50	3.14	2.00	S45° 10' 00.87"E	(67977.610,147424.208)	(67975.616,147426.214)
C51	3.14	2.00	S44° 49' 59.13"W	(67940.615,147426.316)	(67938.609,147424.322)
C52	3.14	2.00	S45° 10' 00.87"E	(67937.109,147424.326)	(67935.115,147426.332)
C53	3.14	2.00	S44° 49' 59.13"W	(67899.116,147426.437)	(67897.110,147424.443)
C54	3.14	2.00	S45° 10' 00.87"E	(67895.610,147424.447)	(67893.616,147426.453)
C55	3.14	2.00	S44° 49' 59.13"W	(67857.616,147426.558)	(67855.610,147424.564)
C56	3.14	2.00	S45° 10' 00.87"E	(67854.110,147424.568)	(67852.116,147426.574)
C57	3.14	2.00	S44° 49' 59.13"W	(67816.116,147426.679)	(67814.110,147424.685)
C58	11.27	50.00	S6° 37' 24.64"E	(67806.914,147424.705)	(67795.744,147426.003)
C59	19.50	15.00	S50° 19' 25.01"E	(67787.032,147428.027)	(67775.440,147442.001)
C60	20.25	15.00	S53° 45' 18.64"W	(67745.847,147443.564)	(67734.762,147428.443)
C61	13.30	50.00	S7° 27' 19.01"W	(67728.268,147426.694)	(67715.116,147424.973)
C62	3.14	2.00	S45° 10' 00.87"E	(67710.130,147424.987)	(67708.136,147426.993)
C63	3.14	2.00	S44° 49' 59.13"W	(67673.136,147427.095)	(67671.130,147425.101)
C64	3.14	2.00	S45° 10' 00.87"E	(67669.630,147425.105)	(67667.636,147427.111)
C65	3.14	2.00	S44° 49' 59.13"W	(67631.636,147427.216)	(67629.630,147425.222)

Curve Table					
Curve #	Length	Radius	Cord Direction	Start Point (N,E)	End Point (N,E)
C66	3.14	2.00	S45° 10' 00.87"E	(67628.130,147425.226)	(67626.136,147427.232)
C67	3.14	2.00	S44° 49' 59.13"W	(67590.136,147427.337)	(67588.131,147425.343)
C68	3.14	2.00	S45° 10' 00.87"E	(67586.631,147425.347)	(67584.637,147427.353)
C69	3.14	2.00	S44° 49' 59.13"W	(67548.637,147427.458)	(67546.631,147425.464)
C70	3.14	2.00	S45° 10' 00.87"E	(67545.131,147425.468)	(67543.137,147427.474)
C71	3.14	2.00	S44° 49' 59.13"W	(67517.137,147427.550)	(67515.131,147425.555)
C72	3.14	2.00	S45° 10' 00.87"E	(67513.631,147425.560)	(67511.637,147427.566)
C73	3.14	2.00	S44° 49' 59.13"W	(67475.637,147427.671)	(67473.631,147425.676)
C74	3.14	2.00	S45° 10' 00.87"E	(67472.131,147425.681)	(67470.137,147427.687)
C75	3.14	2.00	S44° 49' 59.13"W	(67434.137,147427.791)	(67432.131,147425.797)
C76	3.14	2.00	S45° 10' 00.87"E	(67430.631,147425.802)	(67428.637,147427.807)
C77	3.14	2.00	S44° 49' 59.13"W	(67392.637,147427.912)	(67390.632,147425.918)
C78	3.14	2.00	S45° 10' 00.87"E	(67389.132,147425.923)	(67387.137,147427.928)
C79	3.14	2.00	S44° 49' 59.13"W	(67351.137,147428.033)	(67349.132,147426.039)
C80	3.14	2.00	S45° 10' 00.87"E	(67347.632,147426.043)	(67345.638,147428.049)
C81	3.14	2.00	S44° 49' 59.13"W	(67318.638,147428.128)	(67316.632,147426.134)
C82	3.14	2.00	S45° 10' 00.87"E	(67315.132,147426.138)	(67313.138,147428.144)
C83	3.14	2.00	S44° 49' 59.13"W	(67287.138,147428.220)	(67285.132,147426.226)
C84	10.29	50.00	S6° 03' 39.07"E	(67276.678,147426.250)	(67266.466,147427.334)
C85	19.80	15.00	S49° 45' 39.44"E	(67256.140,147429.521)	(67244.260,147443.559)
C86	24.24	15.00	S46° 07' 58.76"W	(67219.172,147445.098)	(67204.142,147429.461)
C87	9.61	10.00	S27° 41' 13.62"E	(67185.250,147429.516)	(67177.067,147433.810)
C88	19.21	20.00	N27° 41' 13.62"W	(67160.701,147442.398)	(67177.067,147433.810)
C89	4.12	2.00	N28° 37' 13.92"W	(67742.382,147455.947)	(67745.390,147454.306)
C90	27.14	51.00	S15° 04' 46.45"W	(67742.382,147455.947)	(67716.483,147448.969)
C91	61.02	40.00	S43° 52' 04.27"E	(67325.920,147450.107)	(67286.072,147488.410)
C92	46.87	29.00	S46° 07' 31.56"W	(67743.975,147493.278)	(67714.911,147463.049)
C93	13.94	20.00	S20° 08' 46.09"E	(67714.911,147463.049)	(67702.087,147467.753)
C94	6.97	10.00	N20° 08' 33.28"W	(67695.674,147470.106)	(67702.087,147467.753)
C95	42.71	28.00	S43° 52' 12.66"E	(67335.548,147471.434)	(67307.657,147498.246)
C96	7.85	16.00	N78° 22' 51.07"E	(67306.821,147517.937)	(67308.386,147525.547)

255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

BKF
ENGINEERS / SURVEYORS / PLANNERS

CALIFORNIA

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
HORIZONTAL CONTROL PLAN
SAN FRANCISCO SAN FRANCISCO COUNTY

Revisions | No.

Date: 05/01/17
Scale: 1"=100'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C1.10

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C101-HC.dwg (C1.10)
PLOT TIME: 4-27-2017 1:00 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

LAKE MERCED BOULEVARD

Line Table				
Line #	Length	Direction	Start Point (N,E)	End Point (N,E)
L1	2.00	S89° 49' 59.13"W	(68251.158,147330.666)	(68251.158,147328.666)
L2	214.09	S0° 10' 00.87"E	(68034.056,147325.675)	(68034.056,147326.299)
L3	13.68	N10° 33' 20.76"W	(68004.220,147331.605)	(68004.220,147329.099)
L4	181.68	S0° 10' 00.87"E	(67800.075,147332.451)	(67800.075,147332.980)
L5	448.09	S0° 10' 00.87"E	(67800.081,147333.675)	(67800.081,147334.980)
L6	20.53	S0° 09' 05.83"E	(67782.860,147299.971)	(67782.860,147300.025)
L7	20.53	S0° 09' 06.56"E	(67716.947,147300.163)	(67716.947,147300.217)
L8	140.80	S0° 10' 00.87"E	(67582.801,147327.203)	(67582.801,147327.613)
L9	13.68	N10° 33' 20.76"W	(67552.965,147332.920)	(67552.965,147330.413)
L10	261.68	S0° 10' 00.87"E	(67268.820,147333.766)	(67268.820,147334.528)
L11	479.73	S0° 10' 00.87"E	(67268.826,147335.130)	(67268.826,147336.528)
L12	20.49	S0° 09' 06.56"E	(67251.627,147301.518)	(67251.627,147301.573)
L13	20.49	S0° 09' 06.56"E	(67185.713,147301.707)	(67185.713,147301.761)
L14	162.94	S0° 10' 00.87"E	(67029.405,147328.751)	(67029.405,147329.225)
L15	223.53	S0° 10' 00.87"E	(66993.763,147336.678)	(66993.763,147337.329)
L16	49.84	S2° 04' 50.54"E	(68257.821,147358.837)	(68257.821,147360.647)
L17	466.15	S0° 10' 00.87"E	(67791.670,147360.647)	(67791.670,147362.005)
L18	8.75	N87° 34' 01.61"W	(67776.727,147385.114)	(67776.727,147376.368)
L19	226.18	S0° 10' 00.87"E	(67504.603,147373.182)	(67504.603,147373.841)
L20	31.00	N10° 13' 19.02"E	(67474.842,147365.722)	(67474.842,147371.223)
L21	154.08	S0° 10' 00.87"E	(67260.491,147363.103)	(67260.491,147363.552)
L22	8.75	N87° 34' 01.61"W	(67245.548,147386.661)	(67245.548,147377.915)
L23	236.87	S0° 10' 00.87"E	(66962.653,147374.730)	(66962.653,147375.420)
L24	30.90	N11° 31' 56.49"E	(66929.186,147365.912)	(66929.186,147372.090)
L25	59.21	S4° 14' 35.01"W	(66785.075,147361.273)	(66785.075,147356.892)

Curve Table					
Curve #	Length	Radius	Cord Direction	Start Point (N,E)	End Point (N,E)
C1	4.71	3.00	S44° 49' 59.13"W	(68251.158,147328.666)	(68248.149,147325.675)
C2	30.01	165.50	S5° 21' 40.82"E	(68034.056,147326.299)	(68004.220,147329.099)
C3	9.07	50.00	N5° 21' 40.82"W	(67981.756,147332.451)	(67990.770,147331.605)
C4	3.14	1.00	N89° 49' 59.13"E	(67800.075,147332.980)	(67800.081,147334.980)
C5	4.71	3.00	N45° 10' 00.87"W	(68248.172,147333.675)	(68251.164,147330.666)
C6	4.86	1.75	N79° 45' 58.28"W	(67748.549,147335.130)	(67749.161,147331.743)
C7	16.64	115.23	S12° 48' 28.72"W	(67749.161,147331.743)	(67732.953,147328.058)
C8	9.41	50.00	S5° 13' 20.50"W	(67732.953,147328.058)	(67723.600,147327.203)
C9	30.01	165.50	S5° 21' 40.82"E	(67582.801,147327.613)	(67552.965,147330.413)
C10	9.07	50.00	N5° 21' 40.82"W	(67530.501,147333.766)	(67539.515,147332.920)
C11	3.14	1.00	N89° 49' 59.13"E	(67268.820,147334.528)	(67268.826,147336.528)
C12	4.86	1.75	N79° 45' 58.28"W	(67217.295,147336.678)	(67217.906,147333.290)
C13	16.64	115.23	S12° 48' 28.72"W	(67217.906,147333.290)	(67201.698,147329.606)
C14	9.41	50.00	S5° 13' 20.50"W	(67201.698,147329.606)	(67192.345,147328.751)
C15	36.41	163.00	S6° 33' 58.11"E	(67029.405,147329.225)	(66993.308,147333.380)
C16	5.84	2.00	N83° 26' 01.89"E	(66993.308,147333.380)	(66993.763,147337.329)
C17	22.88	15.00	S43° 52' 01.24"E	(67791.670,147362.005)	(67776.727,147376.368)
C18	9.90	10.00	S28° 11' 08.59"W	(67739.150,147377.669)	(67730.778,147373.182)
C19	29.92	165.00	N5° 01' 39.07"E	(67474.842,147371.223)	(67504.603,147373.841)
C20	29.92	165.00	S5° 01' 39.07"W	(67444.334,147365.722)	(67414.572,147363.103)
C21	22.88	15.00	S43° 52' 01.24"E	(67260.491,147363.552)	(67245.548,147377.915)
C22	9.88	10.00	S28° 08' 13.13"W	(67207.886,147379.202)	(67199.524,147374.730)
C23	33.69	165.00	N5° 40' 57.81"E	(66929.186,147372.090)	(66962.653,147375.420)
C24	26.49	165.00	S6° 55' 59.27"W	(66898.911,147365.912)	(66872.643,147362.718)
C25	16.66	500.00	N3° 17' 18.53"E	(66844.119,147361.273)	(66860.751,147362.228)

SERRANO DRIVE

Line Table				
Line #	Length	Direction	Start Point (N,E)	End Point (N,E)
L133	68.67	N87° 34' 01.60"W	(67501.711,148004.221)	(67501.711,147935.614)
L134	84.50	N87° 34' 01.61"W	(67503.414,148097.735)	(67503.414,148013.311)
L135	100.98	N87° 34' 01.61"W	(67494.128,148214.977)	(67494.128,148114.091)
L136	98.32	N87° 34' 01.61"W	(67494.460,148322.299)	(67494.460,148224.067)
L137	4.61	N87° 34' 01.61"W	(67484.586,148343.257)	(67484.586,148338.655)
L138	22.08	N2° 25' 52.19"E	(67533.239,148372.420)	(67533.239,148373.357)
L139	18.24	N2° 25' 52.19"E	(67531.438,148406.788)	(67531.438,148407.561)
L140	5.18	N87° 34' 01.61"W	(67483.276,148439.465)	(67483.276,148434.291)
L141	352.83	N87° 34' 01.61"W	(67476.739,148286.931)	(67476.739,147934.424)
L142	29.00	N87° 34' 01.61"W	(67456.062,148332.261)	(67456.062,148303.287)
L143	71.01	N87° 34' 01.61"W	(67459.123,148419.986)	(67459.123,148349.042)
L144	29.00	N87° 34' 01.61"W	(67450.409,148465.316)	(67450.409,148436.342)
L145	6.48	N87° 34' 01.61"W	(67455.829,148491.935)	(67455.829,148485.459)

Curve Table					
Curve #	Length	Radius	Cord Direction	Start Point (N,E)	End Point (N,E)
C106	5.86	10.00	N75° 39' 07.02"E	(67498.796,148004.221)	(67500.226,148009.814)
C107	4.02	20.00	S64° 37' 37.72"W	(67501.944,148013.436)	(67500.226,148009.814)
C108	11.71	20.00	N70° 47' 18.45"W	(67496.027,148108.639)	(67499.827,148097.735)
C109	5.86	10.00	S70° 47' 18.45"E	(67496.027,148108.639)	(67494.128,148114.091)
C110	5.86	10.00	N75° 39' 15.23"E	(67489.842,148214.977)	(67491.272,148220.570)
C111	4.02	20.00	S64° 37' 37.72"W	(67492.990,148224.192)	(67491.272,148220.570)
C112	11.71	20.00	N70° 47' 18.46"W	(67486.486,148333.203)	(67490.286,148322.299)
C113	5.86	10.00	S70° 47' 18.46"E	(67486.486,148333.203)	(67484.586,148338.655)
C114	43.98	28.00	N47° 25' 55.29"E	(67484.391,148343.257)	(67511.178,148372.420)
C115	45.16	28.75	S42° 34' 04.71"E	(67513.219,148406.788)	(67483.276,148434.291)
C116	5.86	10.00	N70° 47' 18.18"W	(67459.862,148292.383)	(67461.762,148286.931)
C117	11.71	20.00	S70° 47' 18.18"E	(67459.862,148292.383)	(67456.062,148303.287)
C118	11.71	20.00	N75° 39' 14.96"E	(67454.831,148332.261)	(67457.692,148343.448)
C119	5.86	10.00	S75° 39' 14.96"W	(67459.123,148349.042)	(67457.692,148343.448)
C120	5.86	10.00	N70° 47' 18.46"W	(67454.209,148425.438)	(67456.108,148419.986)
C121	11.71	20.00	S70° 47' 18.46"E	(67454.209,148425.438)	(67450.409,148436.342)
C122	14.45	20.00	N71° 43' 41.07"E	(67449.178,148465.316)	(67453.612,148478.745)
C123	7.23	10.00	S71° 43' 41.07"W	(67455.829,148485.459)	(67453.612,148478.745)

ACEVEDO AVENUE

Line Table				
Line #	Length	Direction	Start Point (N,E)	End Point (N,E)
L124	67.30	N87° 34' 01.61"W	(67775.440,147509.237)	(67775.440,147442.001)
L125	69.83	N87° 34' 01.61"W	(67777.201,147588.089)	(67777.201,147518.326)
L126	136.45	N87° 34' 01.61"W	(67768.538,147740.769)	(67768.538,147604.445)
L126	136.45	N87° 34' 01.61"W	(67768.538,147740.769)	(67768.538,147604.445)
L127	117.56	N87° 34' 01.61"W	(67767.364,147867.309)	(67767.364,147749.859)
L128	5.73	N87° 34' 01.61"W	(67756.675,147889.385)	(67756.675,147883.665)
L130	44.91	N87° 34' 07.81"W	(67736.692,147709.537)	(67736.692,147664.671)
L131	86.89	S87° 34' 03.19"E	(67730.599,147709.516)	(67730.599,147796.330)
L132	14.00	S87° 34' 01.61"E	(67727.434,147870.667)	(67727.434,147884.650)

Curve Table					
Curve #	Length	Radius	Cord Direction	Start Point (N,E)	End Point (N,E)
C97	5.86	10.00	N75° 39' 15.23"E	(67772.583,147509.236)	(67774.014,147514.830)
C98	4.02	20.00	S64° 37' 37.72"W	(67775.731,147518.452)	(67774.014,147514.830)
C99	11.71	20.00	N70° 47' 18.46"W	(67770.438,147598.993)	(67774.237,147588.089)
C100	5.86	10.00	S70° 47' 18.46"E	(67770.438,147598.993)	(67768.538,147604.445)
C101	5.86	10.00	N75° 39' 15.23"E	(67762.746,147740.769)	(67764.176,147746.363)
C102	4.02	20.00	S64° 37' 37.72"W	(67765.894,147749.985)	(67764.176,147746.363)
C103	11.71	20.00	N70° 47' 18.46"W	(67758.574,147878.213)	(67762.374,147867.309)
C104	5.86	10.00	S70° 47' 18.46"E	(67758.574,147878.213)	(67756.675,147883.665)
C105	23.56	15.00	N42° 34' 01.61"W	(67711.810,147899.000)	(67727.434,147884.650)

HIGUERA AVENUE

Line Table				
Line #	Length	Direction	Start Point (N,E)	End Point (N,E)
L146	65.76	N87° 34' 01.61"W	(67244.260,147509.264)	(67244.260,147443.559)
L147	82.50	N87° 34' 01.61"W	(67246.087,147600.779)	(67246.087,147518.354)
L148	130.52	N87° 34' 01.61"W	(67236.885,147747.541)	(67236.885,147617.135)
L149	91.50	N87° 34' 01.61"W	(67235.963,147848.049)	(67235.963,147756.631)
L150	228.81	N87° 34' 01.61"W	(67219.172,147673.703)	(67219.172,147445.098)
L151	156.65	N87° 34' 01.61"W	(67203.760,147846.563)	(67203.760,147690.059)
L152	2.46	N87° 34' 01.61"W	(67201.402,147865.799)	(67201.402,147863.344)

Curve Table					
Curve #	Length	Radius	Cord Direction	Start Point (N,E)	End Point (N,E)
C124	5.86	10.00	N75° 39' 15.23"E	(67241.469,147509.267)	(67242.900,147514.860)
C125	4.02	20.00	S64° 37' 37.72"W	(67244.617,147518.482)	(67242.900,147514.860)
C126	11.71	20.00	N70° 47' 18.46"W	(67238.785,147611.683)	(67242.585,147600.779)
C127	5.86	10.00	S70° 47' 18.46"E	(67238.785,147611.683)	(67236.885,147617.135)
C128	5.86	10.00	N75° 39' 15.23"E	(67231.345,147747.541)	(67232.775,147753.135)
C129	4.02	20.00	S64° 37' 37.72"W	(67234.493,147756.757)	(67232.775,147753.135)
C130	11.71	20.00	N70° 47' 18.46"W	(67228.279,147858.953)	(67232.079,147848.049)
C131	5.86	10.00	S70° 47' 18.46"E	(67228.279,147858.953)	(67226.380,147864.405)
C132	23.56	15.00	N47° 25' 58.39"E	(67226.275,147866.861)	(67240.625,147882.484)
C137	5.86	10.00	N70° 47' 18.46"W	(67207.560,147679.155)	(67209.459,147673.703)
C138	11.71	20.00	S70° 47' 18.46"E	(67207.560,147679.155)	(67203.760,147690.059)
C139	11.71	20.00	N75° 39' 15.23"E	(67197.111,147846.563)	(67199.972,147857.750)
C140	5.86	10.00	S75° 39' 15.23"W	(67201.402,147863.344)	(67199.972,147857.750)

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ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
HORIZONTAL CONTROL PLAN
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
Exp. 12/31/18
CIVIL
STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

No.	Revisions

Date: 05/01/17
Scale: 1"=100'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C1.11

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C101-HC.dwg (C1.11)
PLOT TIME: 4-27-2017 1:00 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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GONZALEZ DRIVE

Line Table

Line #	Length	Direction	Start Point (N,E)	End Point (N,E)
L153	349.16	N87° 33' 54.92"W	(66946.154,148260.744)	(66946.154,147911.897)
L153	349.16	N87° 33' 54.92"W	(66946.154,148260.744)	(66946.154,147911.897)
L154	29.00	N87° 33' 54.92"W	(66935.613,148306.498)	(66935.613,148277.524)
L155	14.00	N87° 33' 54.92"W	(66928.681,148336.836)	(66928.681,148322.854)
L156	45.40	N87° 33' 54.92"W	(66930.301,148394.852)	(66930.301,148349.489)
L157	11.16	S44° 05' 03.41"E	(66936.847,148390.869)	(66936.847,148398.632)
L158	61.94	N87° 33' 54.92"W	(66921.183,147972.586)	(66921.183,147910.700)
L159	97.90	N87° 33' 54.92"W	(66913.731,148183.762)	(66913.731,148085.948)
L159	88.00	N87° 33' 54.92"W	(66913.178,148069.168)	(66913.178,147981.251)
L160	97.90	N87° 33' 54.92"W	(66913.731,148183.762)	(66913.731,148085.948)
L161	88.84	N87° 33' 54.92"W	(66904.199,148281.190)	(66904.199,148192.428)
L162	14.57	N87° 33' 54.92"W	(66904.716,148312.533)	(66904.716,148297.971)
L163	6.45	S2° 25' 52.19"W	(66871.619,148336.448)	(66871.619,148336.175)
L164	6.48	N2° 12' 36.27"E	(66877.283,148370.637)	(66877.283,148370.886)
L165	9.00	N87° 31' 03.02"W	(66906.098,148411.153)	(66906.098,148402.164)

Curve Table

Curve #	Length	Radius	Cord Direction	Start Point (N,E)	End Point (N,E)
C141	5.86	10.00	N75° 39' 21.92"E	(66931.321,148260.744)	(66932.752,148266.337)
C142	11.71	20.00	S75° 39' 21.92"W	(66935.613,148277.524)	(66932.752,148266.337)
C143	11.71	20.00	N70° 47' 11.76"W	(66930.581,148317.402)	(66934.381,148306.498)
C144	5.86	10.00	S70° 47' 11.76"E	(66930.581,148317.402)	(66928.681,148322.854)
C145	4.32	10.00	N80° 04' 21.95"E	(66928.086,148336.836)	(66928.824,148341.054)
C146	8.63	20.00	S80° 04' 21.95"W	(66930.301,148349.489)	(66928.824,148341.054)
C147	11.91	5.00	N24° 10' 30.83"E	(66928.373,148394.829)	(66936.847,148398.632)
C148	5.86	10.00	N70° 47' 11.76"W	(66916.651,147978.038)	(66918.551,147972.586)
C149	4.02	20.00	S59° 45' 34.26"E	(66916.651,147978.038)	(66914.633,147981.501)
C150	11.71	20.00	N75° 39' 21.92"E	(66909.440,148069.168)	(66912.301,148080.355)
C151	5.86	10.00	S75° 39' 21.92"W	(66913.731,148085.948)	(66912.301,148080.355)
C152	5.86	10.00	N70° 47' 11.93"W	(66907.672,148189.214)	(66909.572,148183.762)
C153	4.02	20.00	S59° 45' 34.26"E	(66907.672,148189.214)	(66905.653,148192.677)
C154	11.71	20.00	N75° 39' 21.92"E	(66900.425,148281.190)	(66903.286,148292.377)
C155	5.86	10.00	S75° 39' 21.92"W	(66904.716,148297.971)	(66903.286,148292.377)
C156	39.27	25.00	N42° 34' 01.37"W	(66878.059,148336.448)	(66904.097,148312.533)
C157	47.27	30.00	S47° 20' 46.63"W	(66906.098,148402.164)	(66877.283,148370.886)

ARABALLO DRIVE

Line Table

Line #	Length	Direction	Start Point (N,E)	End Point (N,E)
L166	457.42	S2° 25' 58.39"W	(67770.781,147924.426)	(67770.781,147905.009)
L167	28.98	N2° 25' 58.39"E	(67711.810,147897.770)	(67711.810,147899.000)
L168	41.57	N2° 25' 58.39"E	(67544.413,147890.123)	(67544.413,147891.888)
L169	30.00	N2° 25' 58.39"E	(67482.760,147887.995)	(67482.760,147889.268)
L170	125.50	S2° 25' 58.39"W	(67327.418,147887.495)	(67327.418,147882.168)
L170	125.50	S2° 25' 58.39"W	(67327.418,147887.495)	(67327.418,147882.168)
L171	8.16	N2° 25' 58.39"E	(67327.397,147882.321)	(67327.397,147882.667)
L172	13.52	S87° 34' 01.61"E	(67292.463,147839.653)	(67292.463,147853.158)
L173	30.02	S87° 34' 01.61"E	(67269.734,147838.717)	(67269.734,147868.707)
L174	13.50	N2° 25' 58.39"E	(67254.111,147882.484)	(67254.111,147883.057)
L175	85.19	N2° 25' 58.39"E	(67185.675,147876.533)	(67185.675,147880.149)
L176	9.80	S87° 34' 01.61"E	(67086.211,147851.114)	(67086.211,147860.910)
L177	14.80	S87° 34' 01.61"E	(67058.524,147849.947)	(67058.524,147864.738)
L178	148.31	N2° 25' 58.39"E	(67048.108,147868.009)	(67048.108,147874.304)
L179	5.00	N2° 25' 58.39"E	(66876.120,147854.273)	(66876.120,147854.486)
L180	4.44	N2° 25' 52.19"E	(68221.769,147954.599)	(68221.769,147954.788)
L181	15.00	S2° 26' 24.61"W	(68014.677,147946.530)	(68014.677,147945.892)
L182	18.58	S87° 34' 07.53"E	(67998.264,147960.242)	(67998.264,147978.804)
L183	18.45	S87° 29' 55.12"E	(67964.440,147958.938)	(67964.440,147977.368)
L184	18.69	N2° 25' 58.39"E	(67950.896,147942.504)	(67950.896,147943.297)
L185	176.46	S2° 24' 13.33"W	(67755.881,147943.003)	(67755.881,147935.602)
L186	176.46	S2° 24' 13.33"W	(67755.881,147943.003)	(67755.881,147935.602)
L187	28.77	N2° 25' 58.39"E	(67724.654,147932.555)	(67724.654,147933.777)
L188	5.00	N2° 25' 58.39"E	(67556.259,147926.710)	(67556.259,147926.922)
L189	19.16	N2° 25' 58.39"E	(67536.480,147921.265)	(67536.480,147922.078)
L190	7.88	N16° 09' 33.72"E	(67465.927,147917.185)	(67465.927,147919.380)
L191	6.87	N2° 25' 58.39"E	(67446.561,147914.963)	(67446.561,147915.255)
L192	14.00	N87° 34' 01.47"W	(67437.611,147930.864)	(67437.611,147916.877)
L193	26.00	N2° 25' 58.39"E	(67437.017,147929.760)	(67437.017,147930.864)
L194	14.00	N87° 34' 01.61"W	(67411.635,147929.760)	(67411.635,147915.773)
L195	1.50	N2° 25' 58.39"E	(67409.721,147913.626)	(67409.721,147913.690)
L196	12.00	N87° 34' 01.61"W	(67406.140,147927.529)	(67406.140,147915.539)
L197	90.00	N2° 25' 58.39"E	(67405.630,147923.708)	(67405.630,147927.529)
L197	90.00	N2° 25' 58.39"E	(67405.630,147923.708)	(67405.630,147927.529)
L198	12.00	N87° 34' 01.61"W	(67316.221,147923.708)	(67316.221,147911.719)
L199	18.50	N2° 25' 58.39"E	(67314.307,147908.851)	(67314.307,147909.636)
L200	14.00	N87° 34' 01.61"W	(67290.744,147924.624)	(67290.744,147910.637)
L201	26.00	N2° 25' 58.39"E	(67290.149,147923.520)	(67290.149,147924.624)
L202	14.00	N87° 34' 01.61"W	(67264.767,147923.520)	(67264.767,147909.533)
L203	6.51	N2° 25' 58.39"E	(67262.854,147907.174)	(67262.854,147907.450)
L204	62.43	N2° 25' 58.39"E	(67243.161,147906.966)	(67243.161,147909.616)
L205	6.51	N2° 25' 58.39"E	(67167.846,147903.137)	(67167.846,147903.413)
L206	14.00	N87° 34' 01.61"W	(67159.263,147919.038)	(67159.263,147905.050)
L207	35.00	N2° 25' 58.39"E	(67158.668,147917.552)	(67158.668,147919.038)
L208	14.00	N87° 34' 01.61"W	(67124.294,147917.552)	(67124.294,147903.565)
L209	1.50	N2° 25' 58.39"E	(67122.381,147901.418)	(67122.381,147901.482)
L210	12.00	N87° 34' 01.61"W	(67118.799,147915.320)	(67118.799,147903.331)
L211	90.00	N2° 25' 58.39"E	(67118.290,147911.500)	(67118.290,147915.320)
L212	12.00	N87° 34' 01.61"W	(67028.880,147911.500)	(67028.880,147899.511)
L213	1.50	N2° 25' 58.39"E	(67026.967,147897.364)	(67026.967,147897.428)

Line Table

Line #	Length	Direction	Start Point (N,E)	End Point (N,E)
L214	14.00	N87° 34' 01.61"W	(67023.385,147913.265)	(67023.385,147899.277)
L215	35.00	N2° 25' 58.39"E	(67022.791,147911.779)	(67022.791,147913.265)
L216	14.00	S87° 34' 01.61"E	(66987.823,147897.792)	(66987.823,147911.779)
L217	7.92	N2° 25' 58.39"E	(66986.504,147895.372)	(66986.504,147895.708)
L218	9.24	N10° 15' 55.35"W	(66967.561,147897.774)	(66967.561,147896.128)
L219	20.03	N2° 25' 58.39"E	(66902.050,147889.018)	(66902.050,147889.868)

Curve Table

Curve #	Length	Radius	Cord Direction	Start Point (N,E)	End Point (N,E)
C158	23.56	15.00	N47° 25' 58.39"E	(67756.432,147889.385)	(67770.781,147905.009)
C159	43.98	28.00	N47° 25' 58.39"E	(67292.463,147853.158)	(67319.249,147882.321)
C160	23.56	15.00	N42° 34' 01.61"W	(67254.111,147883.057)	(67269.734,147868.707)
C161	23.56	15.00	N42° 34' 01.61"W	(67185.675,147880.149)	(67201.298,147865.799)
C162	23.56	15.00	N47° 25' 58.39"E	(67086.211,147860.910)	(67100.561,147876.533)
C163	15.71	10.00	N42° 34' 01.61"W	(67048.108,147874.304)	(67058.524,147864.738)
C164	9.48	10.00	N29° 35' 24.78"E	(66891.996,147863.501)	(66899.934,147868.009)
C165	18.96	20.00	S29° 35' 24.78"W	(66891.996,147863.501)	(66876.120,147854.486)
C166	18.58	80.00	S9° 05' 05.38"W	(68240.075,147957.715)	(68221.769,147954.788)
C167	23.56	15.00	S42° 33' 51.46"E	(68014.677,147945.892)	(67999.052,147960.242)
C168	23.58	15.00	N47° 28' 01.63"E	(67950.896,147943.297)	(67965.245,147958.938)
C169	10.45	20.00	N17° 23' 45.97"E	(67541.408,147923.622)	(67551.264,147926.710)
C170	5.22	10.00	S17° 23' 45.97"W	(67541.408,147923.622)	(67536.480,147922.078)
C171	23.56	15.00	S42° 34' 01.61"E	(67517.334,147921.265)	(67501.711,147935.614)
C172	19.97	15.00	S54° 17' 46.05"W	(67476.739,147934.424)	(67465.927,147919.380)
C173	11.98	50.00	S9° 17' 46.05"W	(67458.355,147917.185)	(67446.561,147915.255)
C174	3.14	2.00	S42° 34' 01.54"E	(67439.694,147914.963)	(67437.611,147916.877)
C175	3.14	2.00	S47° 25' 58.39"W	(67411.635,147915.773)	(67409.721,147913.690)
C176	3.14	2.00	S42° 34' 01.61"E	(67408.223,147913.626)	(67406.140,147915.539)
C177	3.14	2.00	S47° 25' 58.39"W	(67316.221,147911.719)	(67314.307,147909.636)
C178	3.14	2.00	S42° 34' 01.61"E	(67292.827,147908.723)	(67290.744,147910.637)
C179	3.14	2.00	S47° 25' 58.39"W	(67264.767,147909.533)	(67262.854,147907.450)
C180	4.51	10.00	S10° 29' 17.09"E	(67256.353,147907.174)	(67251.956,147907.988)
C181	9.02	20.00	N10° 29' 17.09"W	(67243.161,147909.616)	(67251.956,147907.988)
C182	9.02	20.00	N15° 21' 13.87"E	(67172.159,147904.597)	(67180.784,147906.966)
C183	4.51	10.00	S15° 21' 13.87"W	(67172.159,147904.597)	(67167.846,147903.413)
C184	3.14	2.00	S42° 34' 01.61"E	(67161.346,147903.137)	(67159.263,147905.050)
C185	3.14	2.00	S47° 25' 58.39"W	(67124.294,147903.565)	(67122.381,147901.482)
C186	3.14	2.00	S42° 34' 01.61"E	(67120.882,147901.418)	(67118.799,147903.331)
C187	3.14	2.00	S47° 25' 58.39"W	(67028.880,147899.511)	(67026.967,147897.428)
C188	3.14	2.00	S42° 34' 01.61"E	(67025.468,147897.364)	(67023.385,147899.277)
C189	3.14	2.00	S47° 25' 58.39"W	(66988.417,147897.792)	(66986.504,147895.708)
C190	11.08	50.00	S3° 54' 58.48"E	(66978.593,147895.372)	(66967.561,147896.128)
C191	20.24	15.00	S48° 54' 55.14"E	(66958.468,147897.774)	(66946.154,147911.897)
C192	31.42	20.00	S47° 26' 01.73"W	(66921.183,147910.700)	(66902.050,147889.868)

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PHASE 1A STREET IMPROVEMENT PLANS
HORIZONTAL CONTROL PLAN
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BRIAN SCOTT No. 61059 Exp. 12/31/18 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

No.	Revisions

Date: 05/01/17
Scale: 1"=100'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C1.12

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C101-HC.dwg (C1.12)
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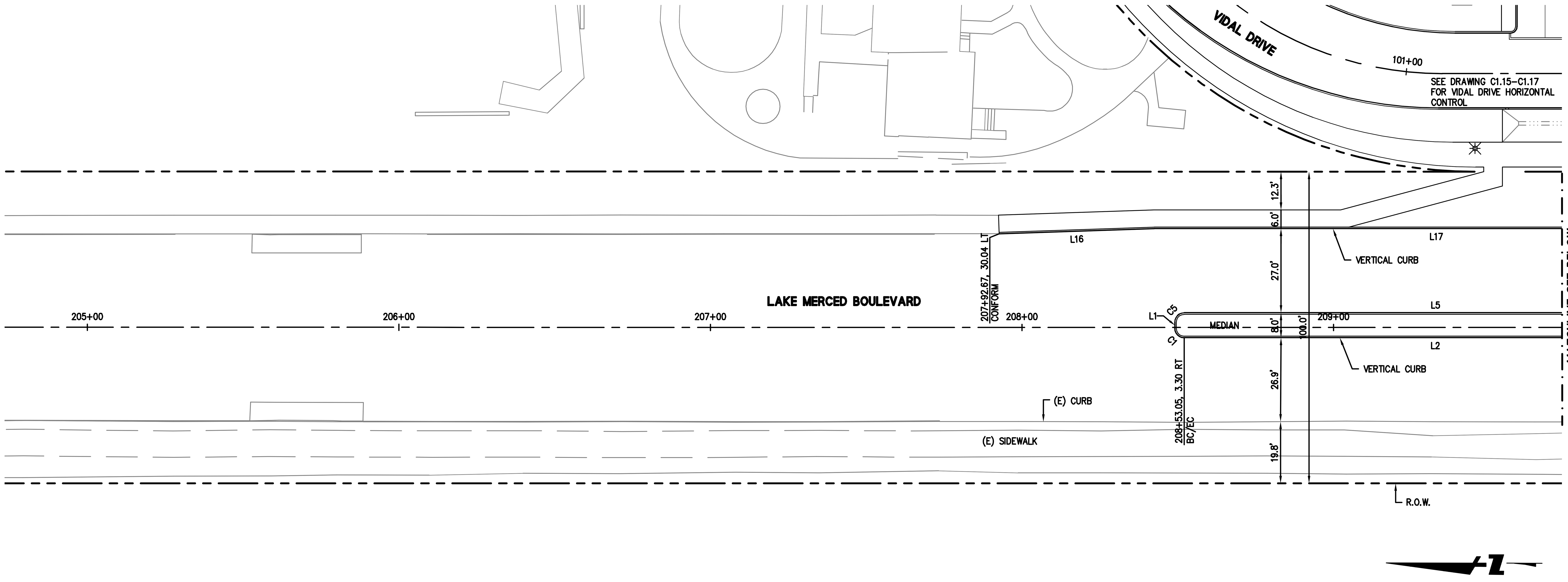
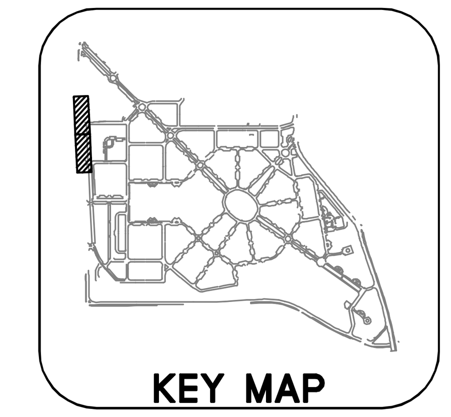
APPROVED SET FOR BOARD SUBMITTAL 05.01.17





GRAPHIC SCALE

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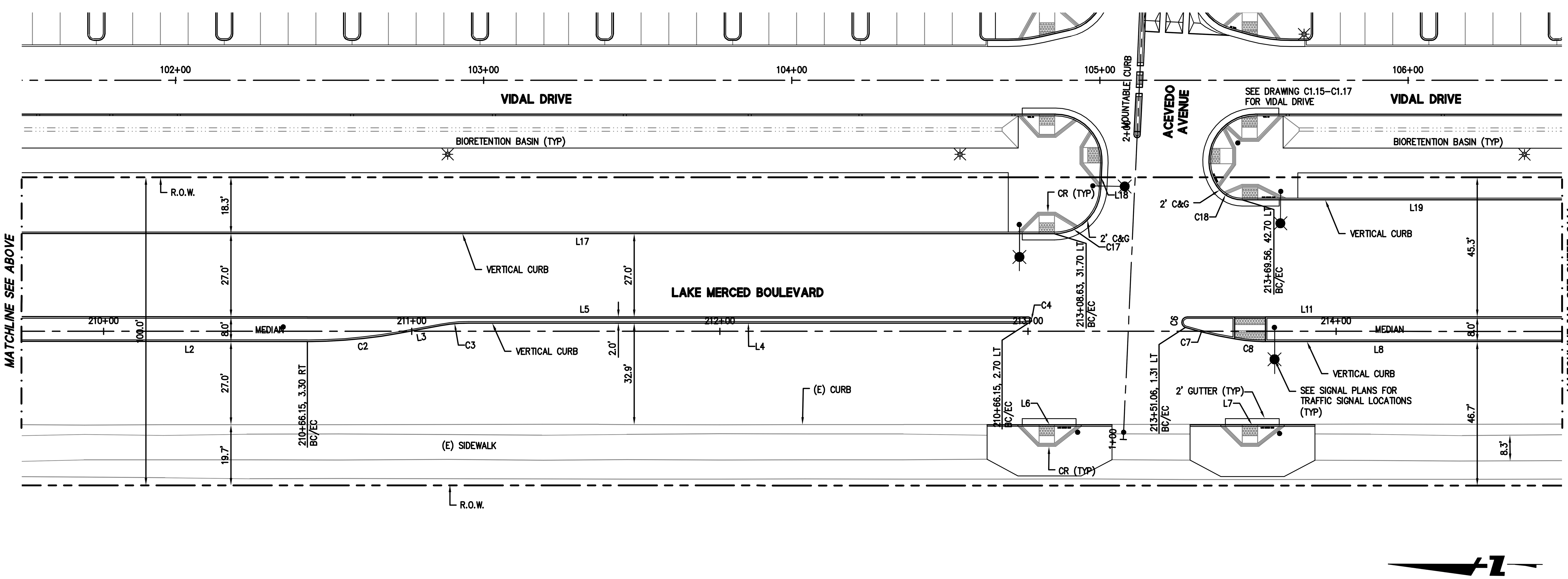
SHEET NOTES

1. SEE SHEET C1.08 FOR GENERAL HORIZONTAL CONTROL NOTES
2. SEE C1.08 FOR EDGE TREATMENT DETAIL REFERENCES.
3. SEE C1.09 FOR ALIGNMENT DATA.
4. SEE C5.00 SERIES FOR PAVING INFORMATION.



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PHASE 1A STREET IMPROVEMENT PLANS

HORIZONTAL CONTROL PLAN - LAKE MERCED BLVD

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C1.13

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C102-HC.dwg (C1.13)
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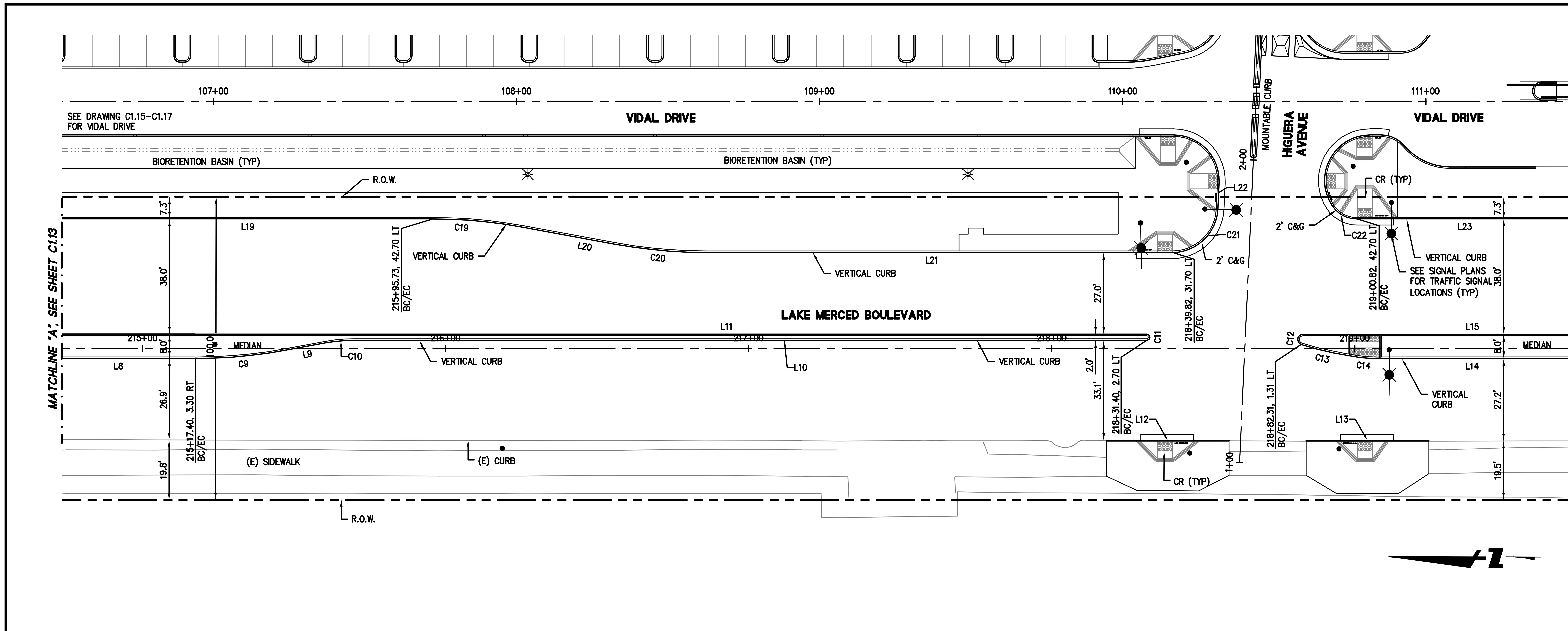
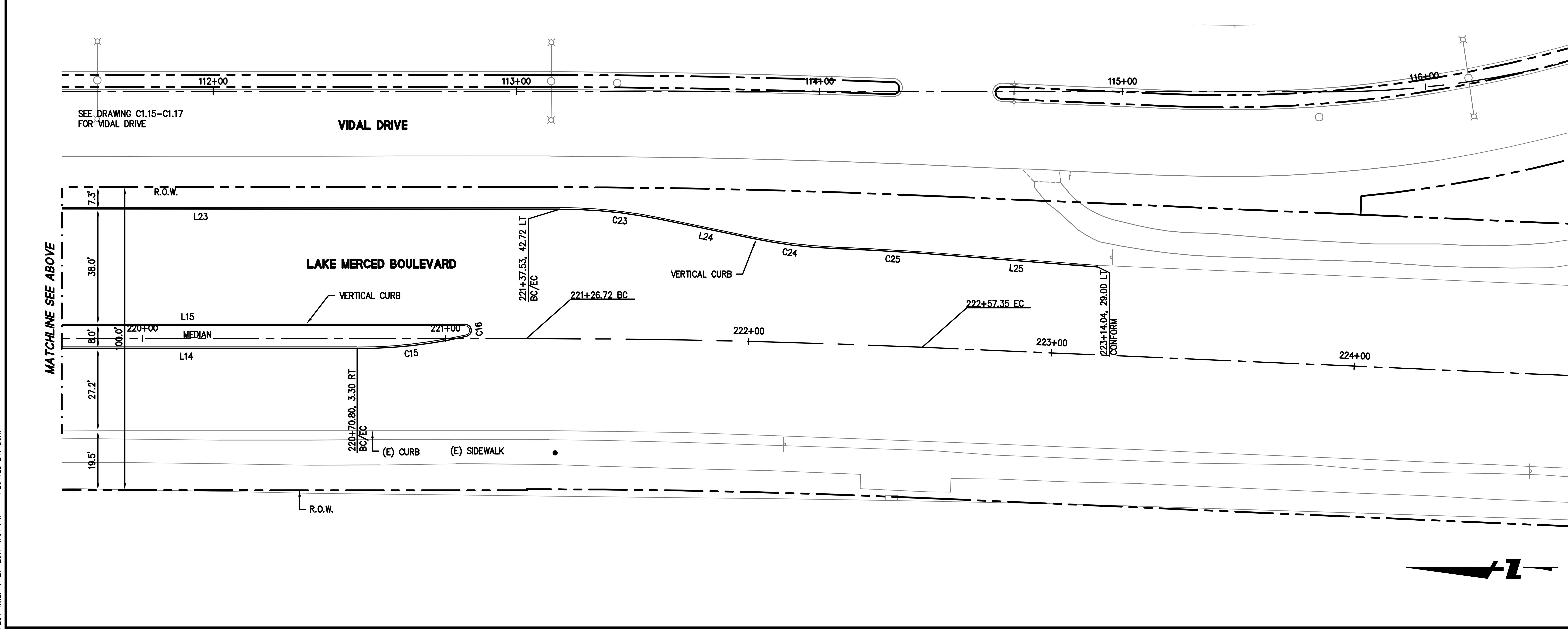
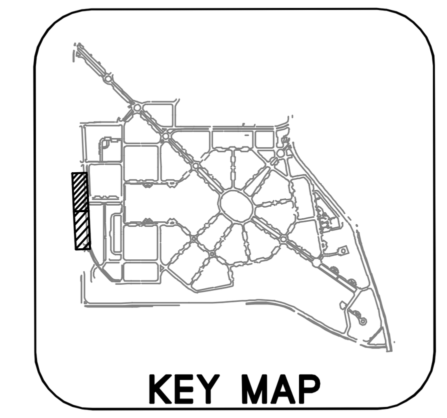
APPROVED SET FOR BOARD SUBMITTAL 05.01.17







GRAPHIC SCALE

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SHEET NOTES

1. SEE SHEET C1.08 FOR GENERAL HORIZONTAL CONTROL NOTES
2. SEE C1.08 FOR EDGE TREATMENT DETAIL REFERENCES.
3. SEE C1.09 FOR ALIGNMENT DATA.
4. SEE C5.00 SERIES FOR PAVING INFORMATION.

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PHASE 1A STREET IMPROVEMENT PLANS

HORIZONTAL CONTROL PLAN - LAKE MERCED BLVD

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BRIAN K. SCOTT No. 61088 Exp. 12/31/18 CIVIL STATE OF CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C1.14

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C102-HC.dwg (C1.14)
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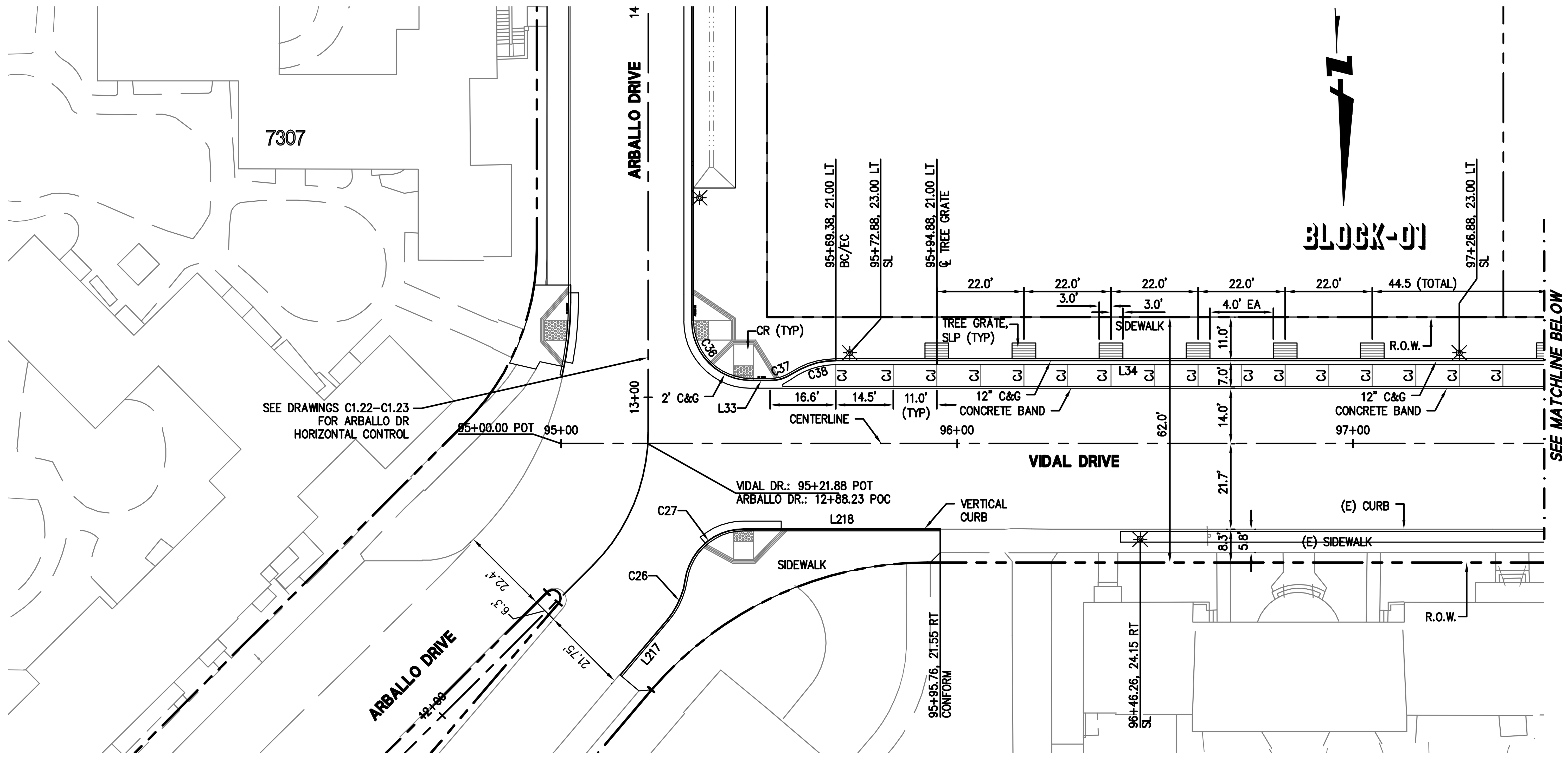
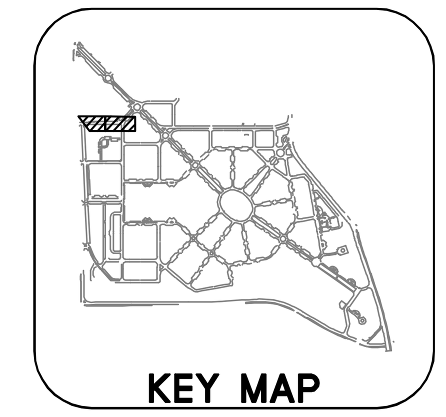
APPROVED SET FOR BOARD SUBMITTAL 05.01.17





GRAPHIC SCALE
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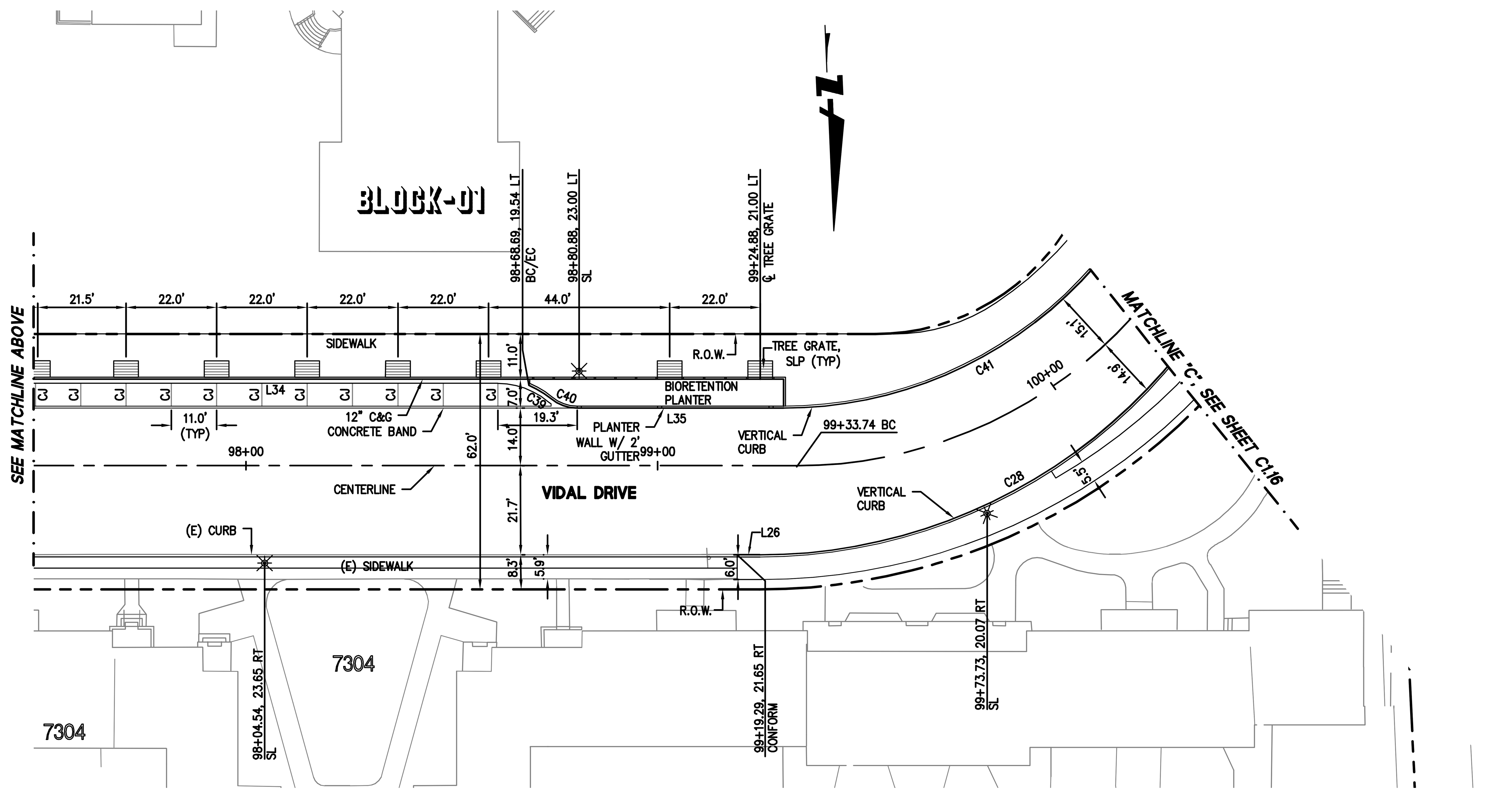
SHEET NOTES
1. SEE SHEET C1.08 FOR GENERAL HORIZONTAL CONTROL NOTES
2. SEE C1.08 FOR EDGE TREATMENT DETAIL REFERENCES.
3. SEE C1.09 FOR ALIGNMENT DATA.
4. SEE C5.00 SERIES FOR PAVING INFORMATION.



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PHASE 1A STREET IMPROVEMENT PLANS
HORIZONTAL CONTROL PLAN - VIDAL DRIVE
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C1.15

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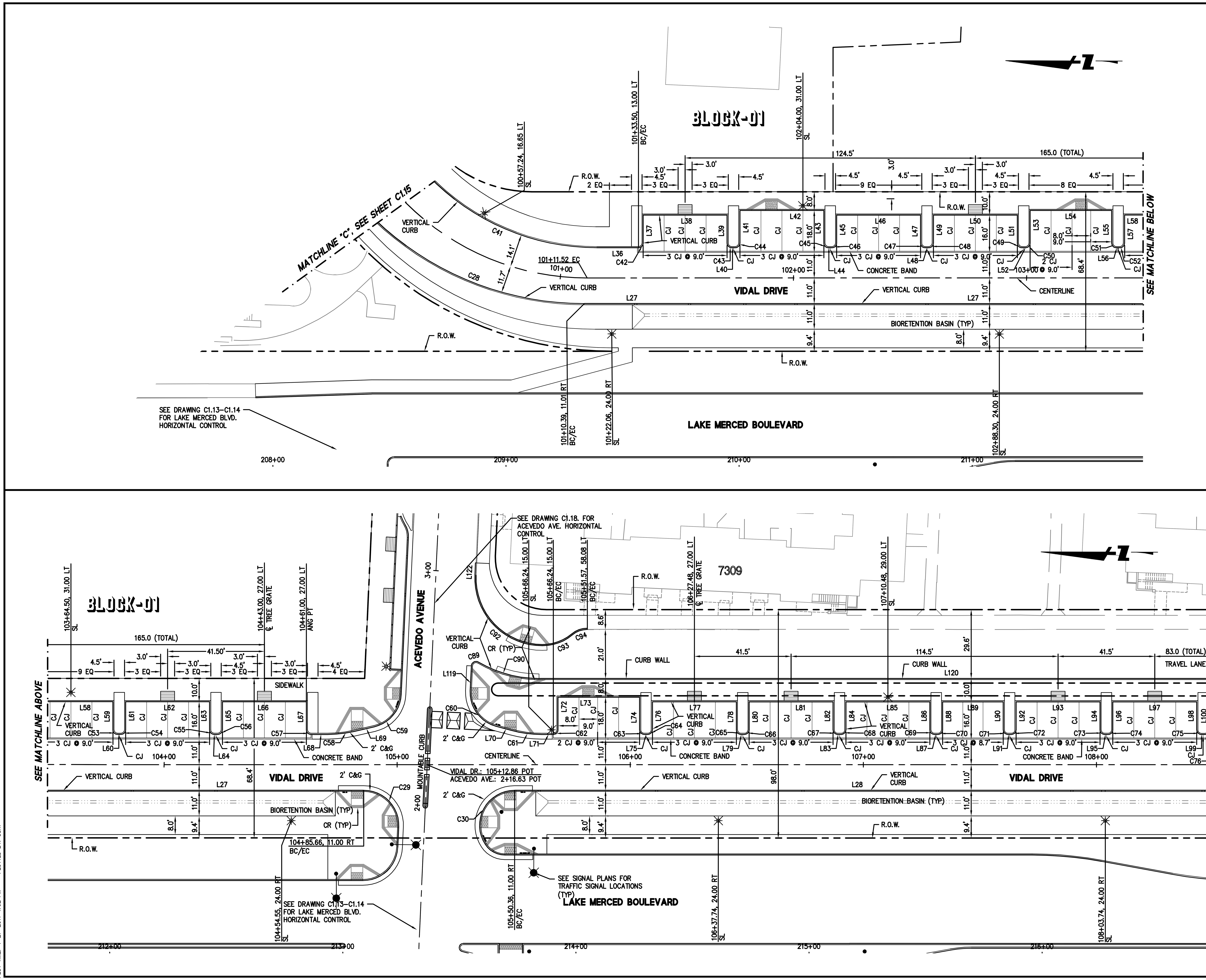
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



KEY MAP

GRAPHIC SCALE
20 0 20 40

SHEET NOTES

1. SEE SHEET C1.08 FOR GENERAL HORIZONTAL CONTROL NOTES
2. SEE C1.08 FOR EDGE TREATMENT DETAIL REFERENCES.
3. SEE C1.09 FOR ALIGNMENT DATA.
4. SEE C5.00 SERIES FOR PAVING INFORMATION.

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PHASE 1A STREET IMPROVEMENT PLANS
HORIZONTAL CONTRO PLAN -VIDAL DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C1.16

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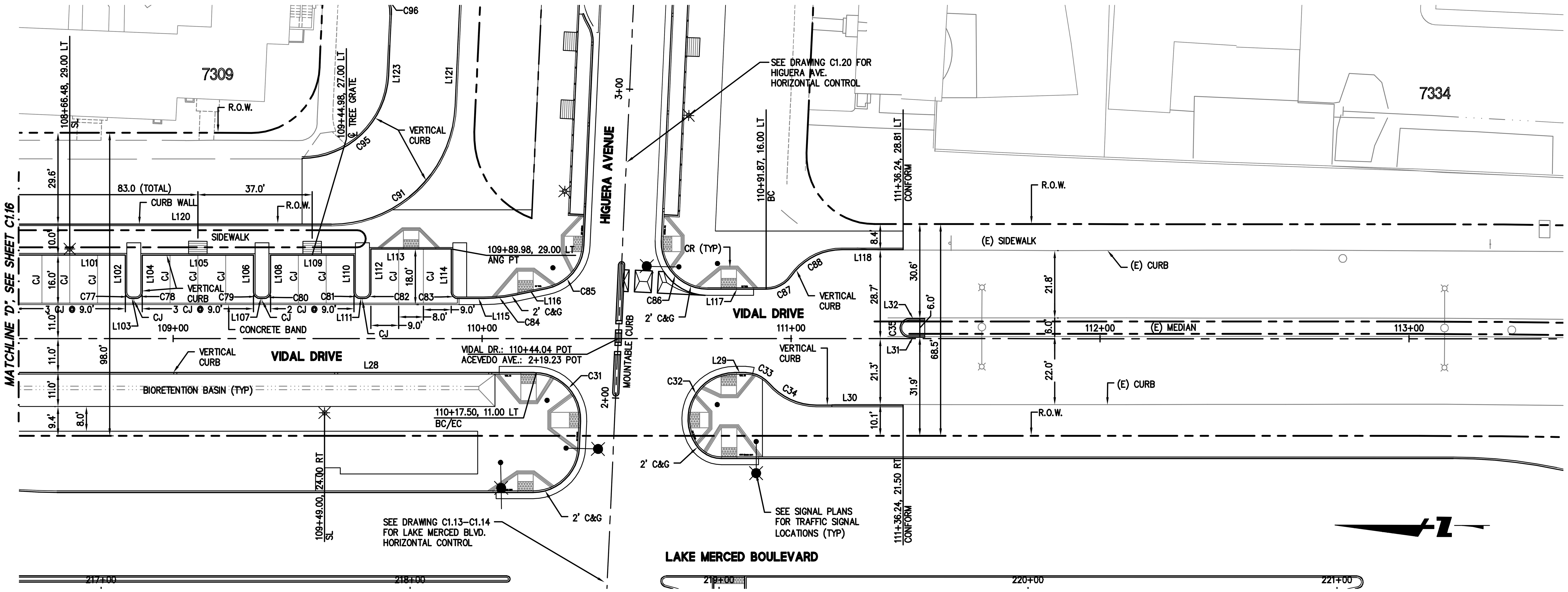
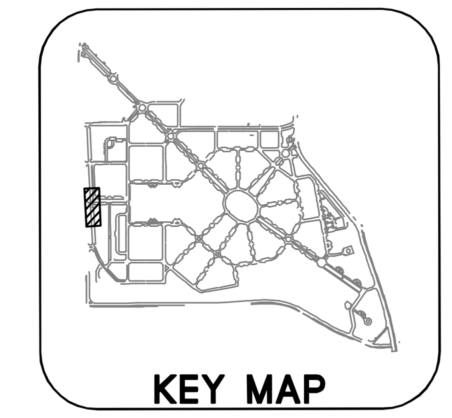
APPROVED SET FOR BOARD SUBMITTAL 05.01.17





GRAPHIC SCALE

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SHEET NOTES

1. SEE SHEET C1.08 FOR GENERAL HORIZONTAL CONTROL NOTES
2. SEE C1.08 FOR EDGE TREATMENT DETAIL REFERENCES.
3. SEE C1.09 FOR ALIGNMENT DATA.
4. SEE C5.00 SERIES FOR PAVING INFORMATION.

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PHASE 1A STREET IMPROVEMENT PLANS

HORIZONTAL CONTROL PLAN - VIDAL DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C1.17

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C102-HC.dwg (C1.17)
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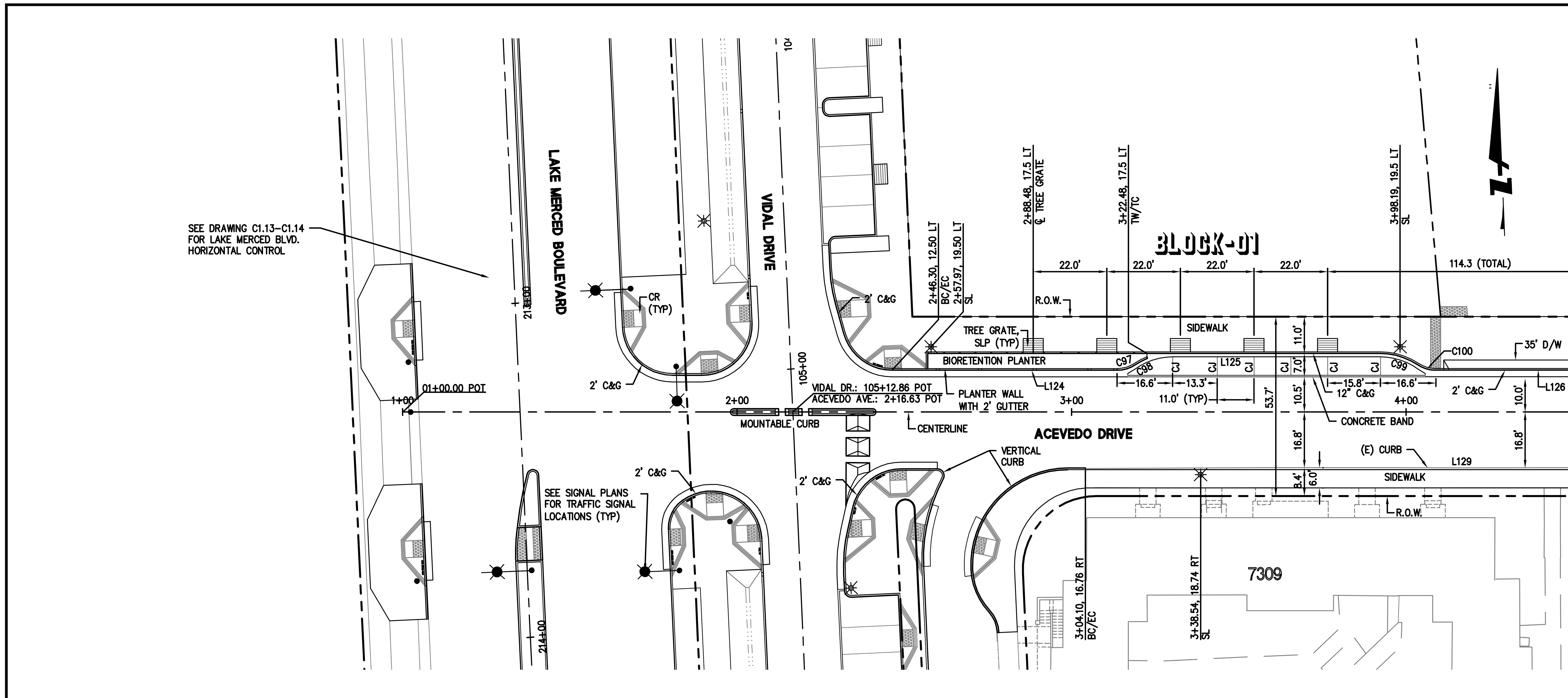

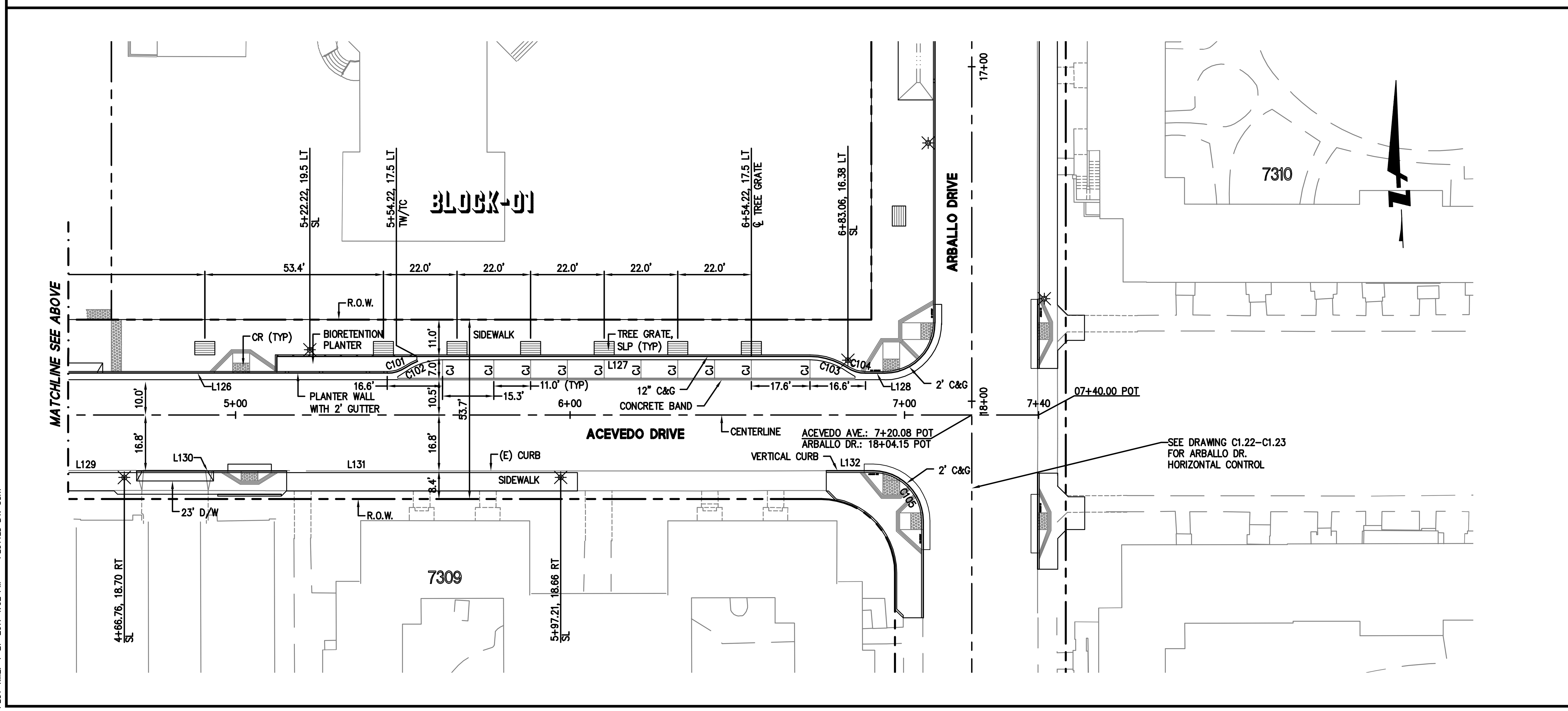

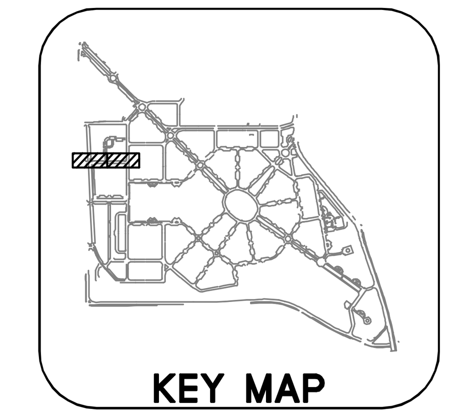

GRAPHIC SCALE
20 0 20 40

SHEET NOTES

1. SEE SHEET C1.08 FOR GENERAL HORIZONTAL CONTROL NOTES
2. SEE C1.08 FOR EDGE TREATMENT DETAIL REFERENCES.
3. SEE C1.09 FOR ALIGNMENT DATA.
4. SEE C5.00 SERIES FOR PAVING INFORMATION.

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PHASE 1A STREET IMPROVEMENT PLANS
HORIZONTAL CONTROL PLAN - ACEVEDO AVENUE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

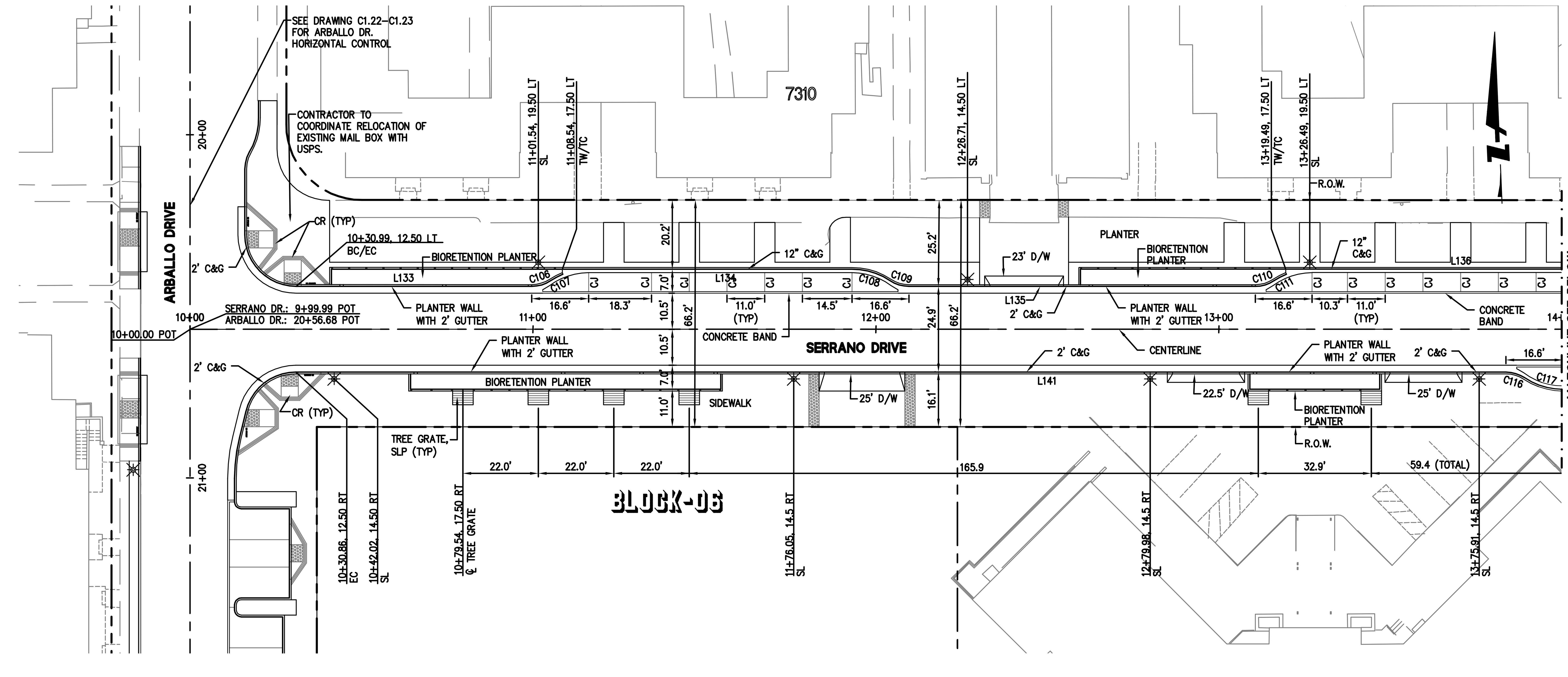
No.	Revisions

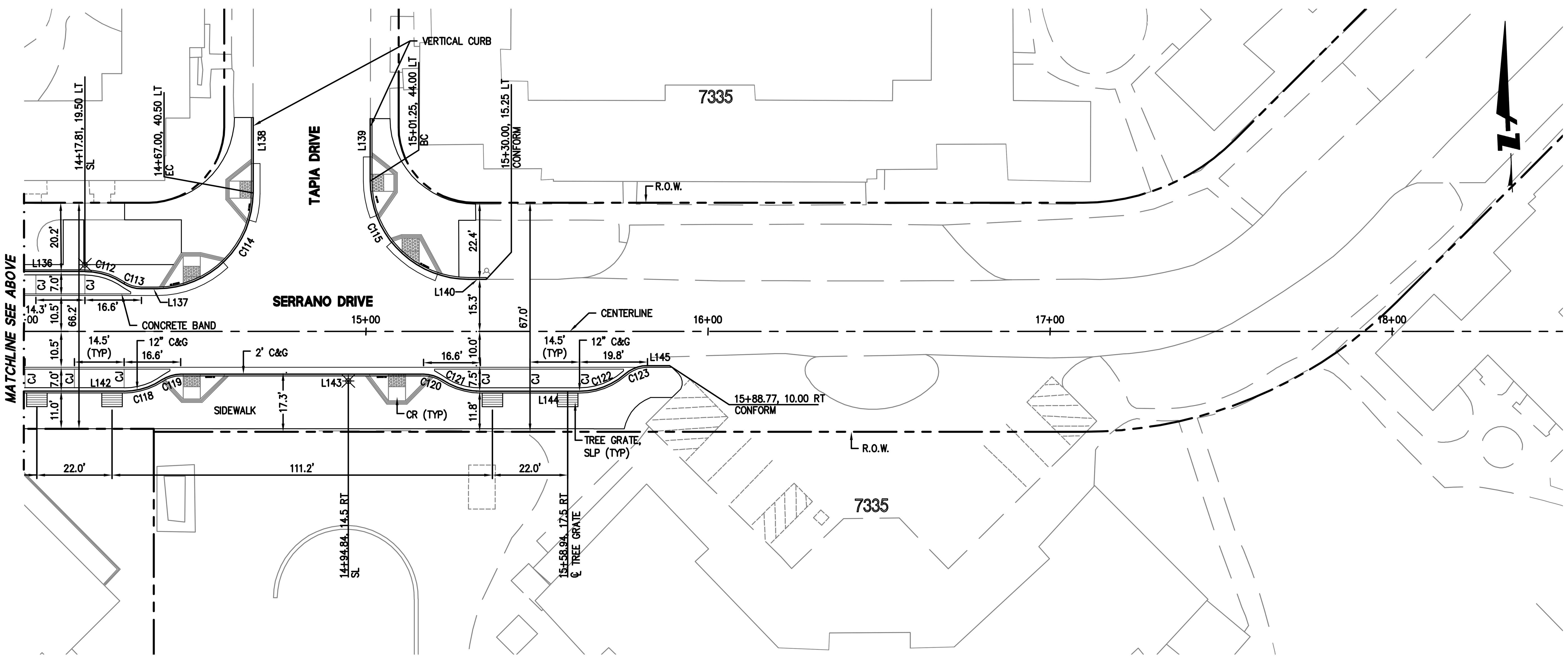
Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

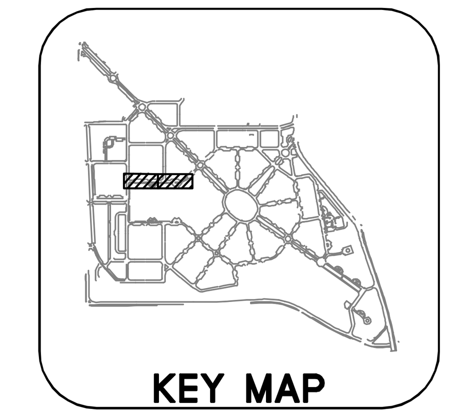
Drawing Number:
C1.18

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C102-HC.dwg (C1.18)
PLOT TIME: 4-27-2017 1:02 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17







GRAPHIC SCALE

20 0 20 40

SHEET NOTES

1. SEE SHEET C1.08 FOR GENERAL HORIZONTAL CONTROL NOTES
2. SEE C1.08 FOR EDGE TREATMENT DETAIL REFERENCES.
3. SEE C1.09 FOR ALIGNMENT DATA.
4. SEE C5.00 SERIES FOR PAVING INFORMATION.

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PHASE 1A STREET IMPROVEMENT PLANS
HORIZONTAL CONTROL PLAN - SERRANO DRIVE

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No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C1.19

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C102-HC.dwg (C1.19)
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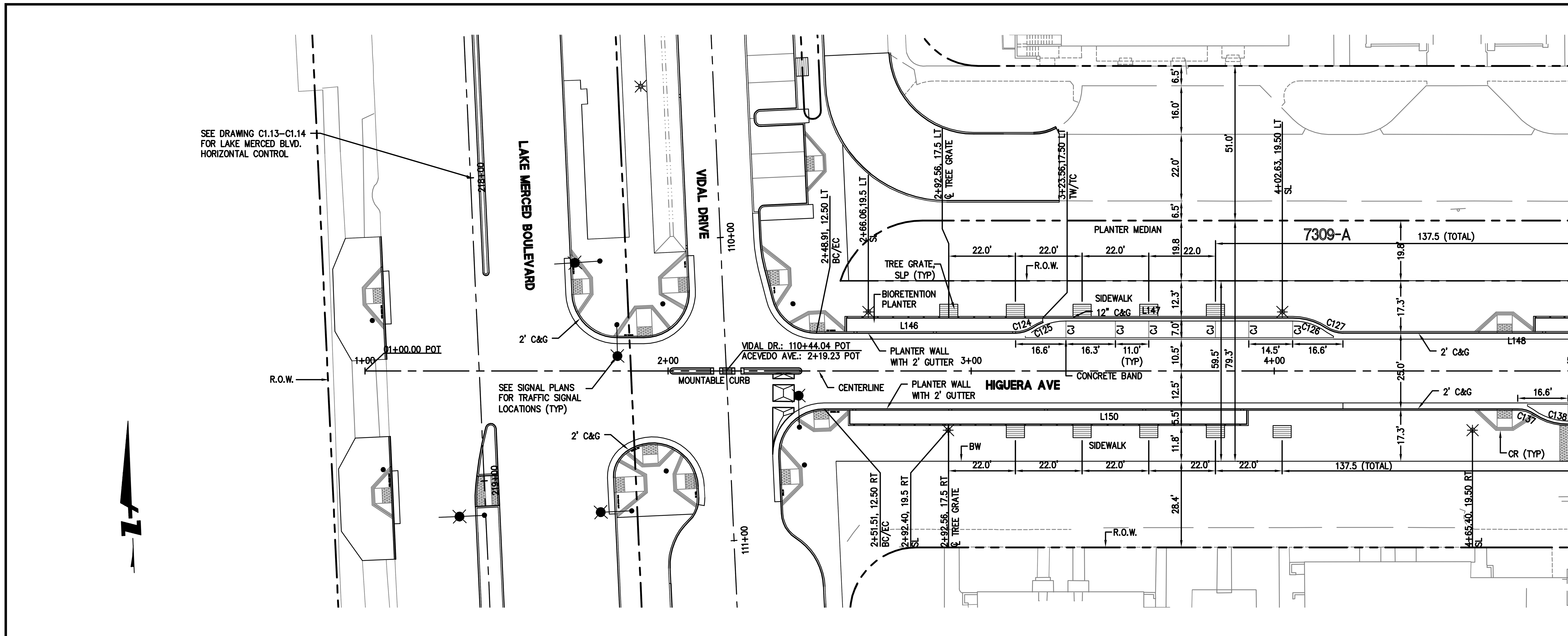

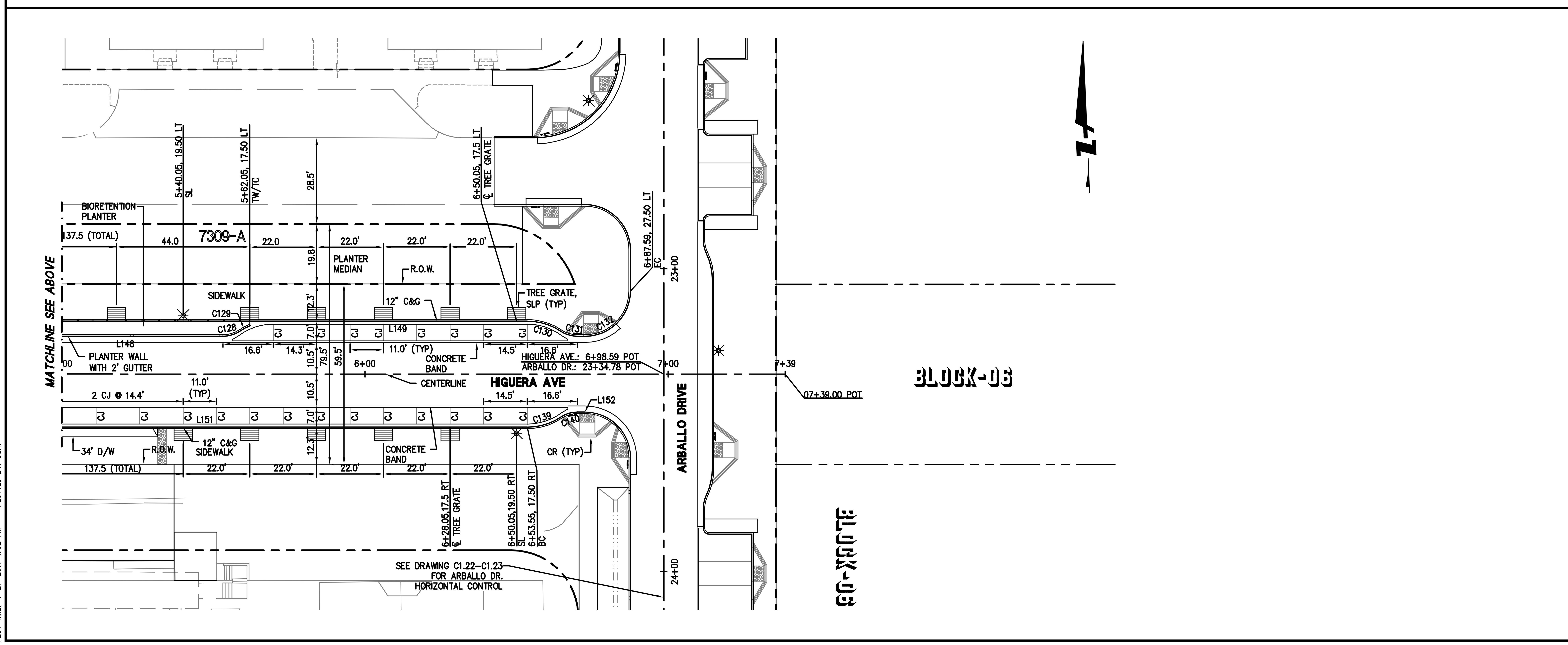

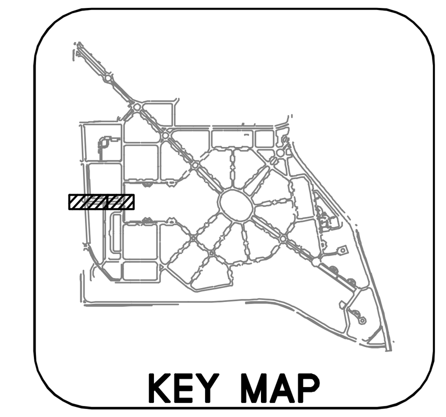

GRAPHIC SCALE
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SHEET NOTES

1. SEE SHEET C1.08 FOR GENERAL HORIZONTAL CONTROL NOTES
2. SEE C1.08 FOR EDGE TREATMENT DETAIL REFERENCES.
3. SEE C1.09 FOR ALIGNMENT DATA.
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HORIZONTAL CONTROL PLAN - HIGUERA AVENUE

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Date: 05/01/17
Scale: 1"=20'
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Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C1.20

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C102-HC.dwg (C1.20)
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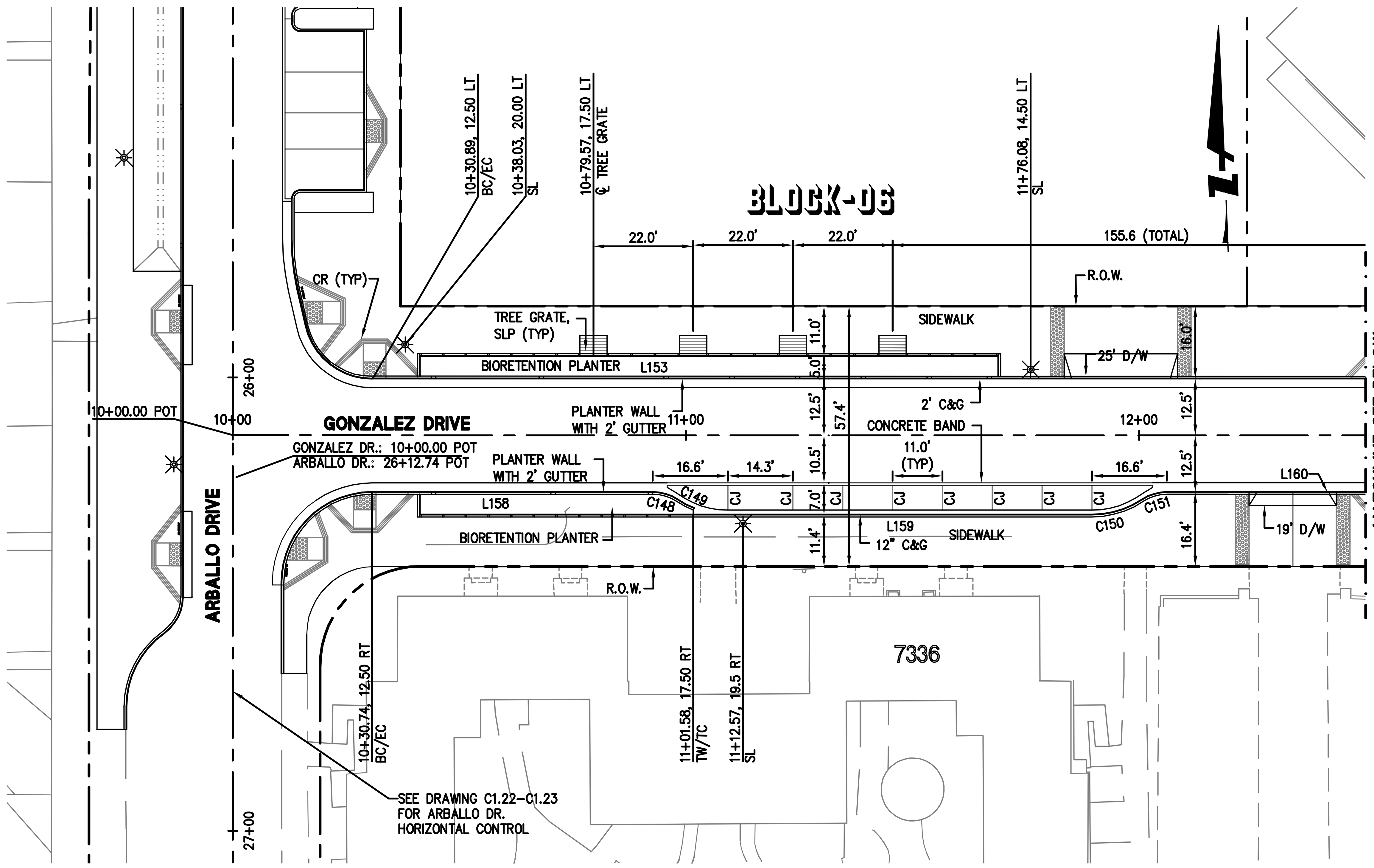

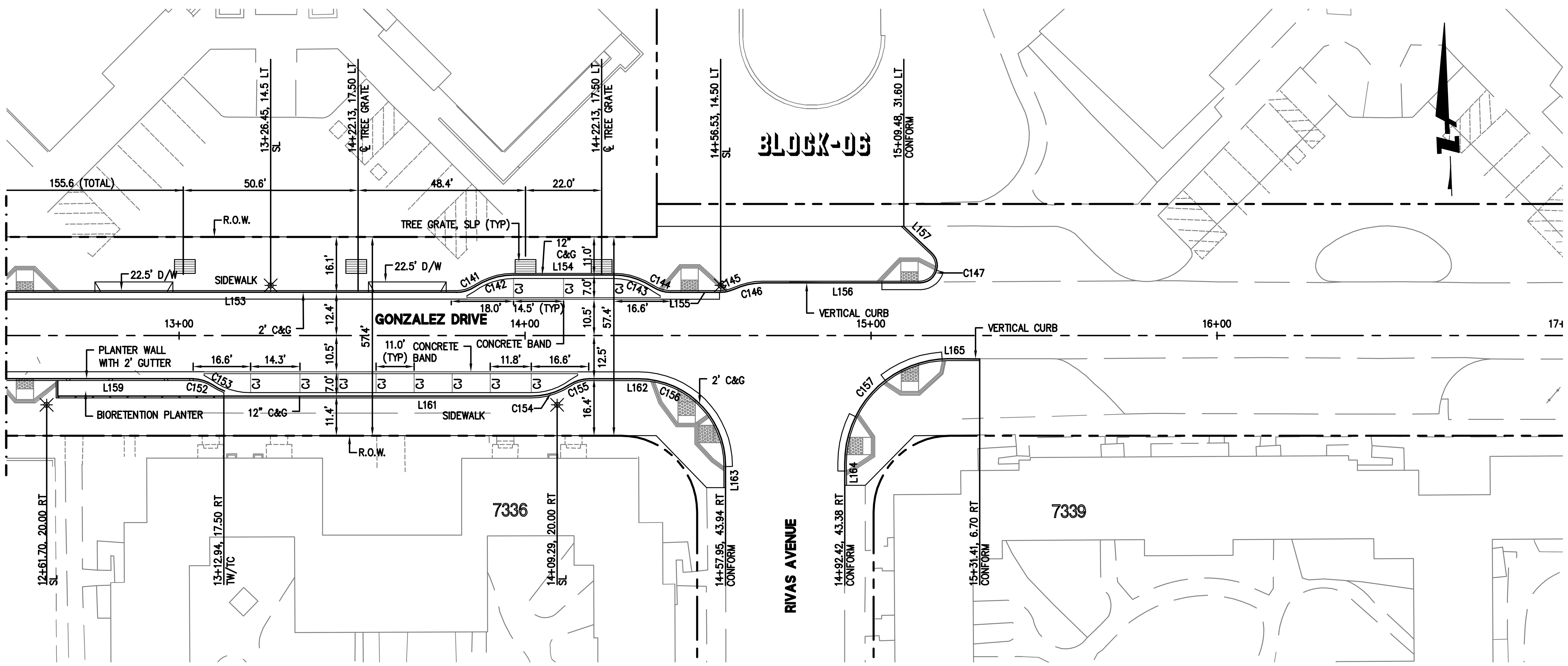

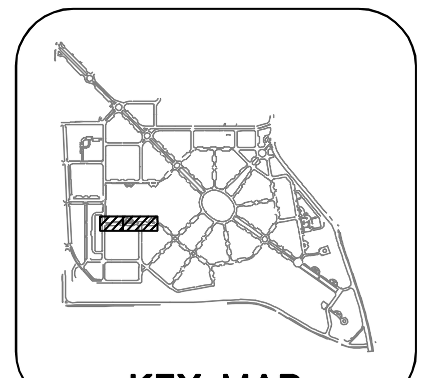

GRAPHIC SCALE

20 0 20 40

SHEET NOTES

1. SEE SHEET C1.08 FOR GENERAL HORIZONTAL CONTROL NOTES
2. SEE C1.08 FOR EDGE TREATMENT DETAIL REFERENCES.
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PHASE 1A STREET IMPROVEMENT PLANS
HORIZONTAL CONTROL PLAN - GONZALEZ DRIVE

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No.	Revisions

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Scale: 1"=20'
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Job No: 20090086

Drawing Number:
C1.21

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C102-HC.dwg (C1.21)
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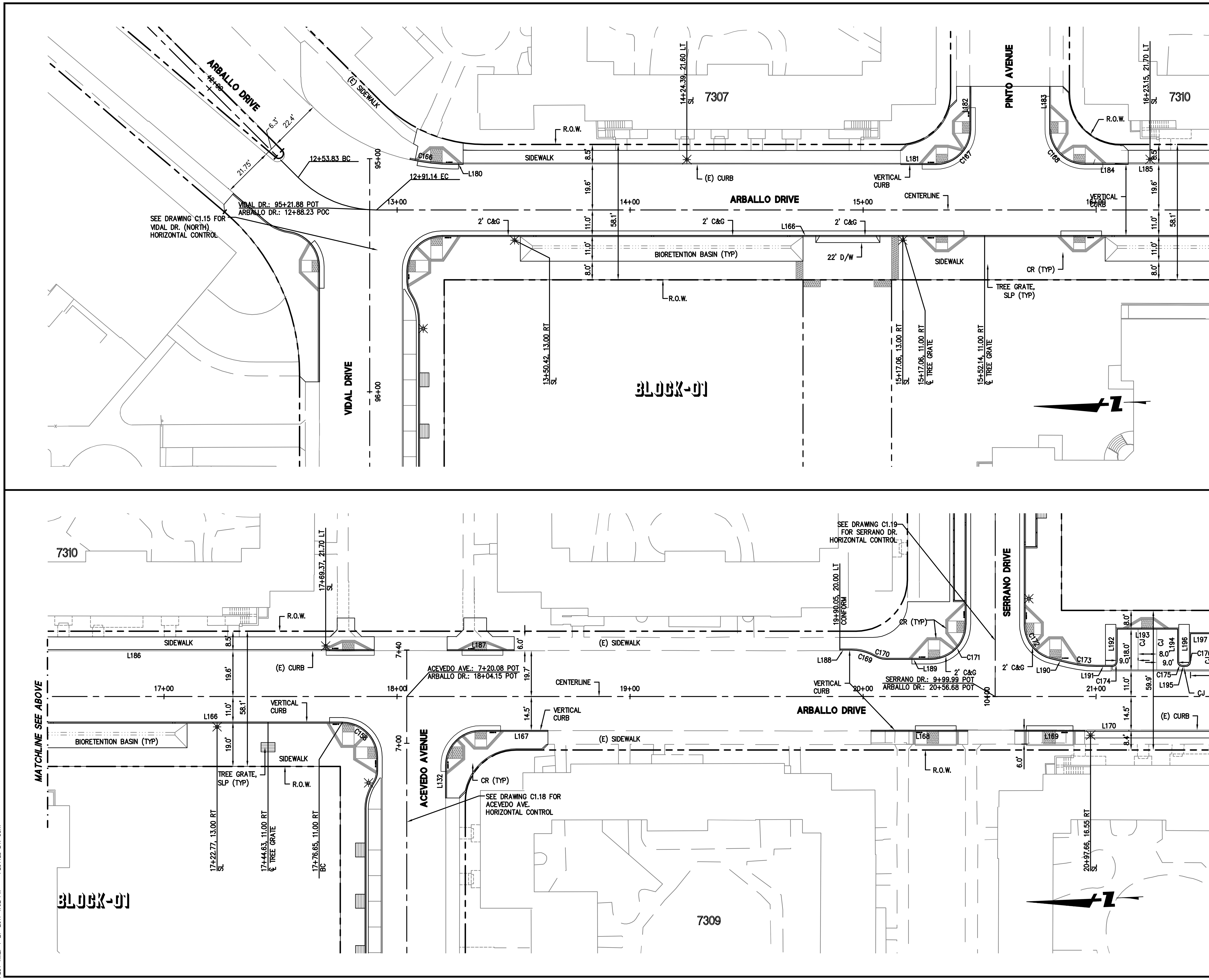

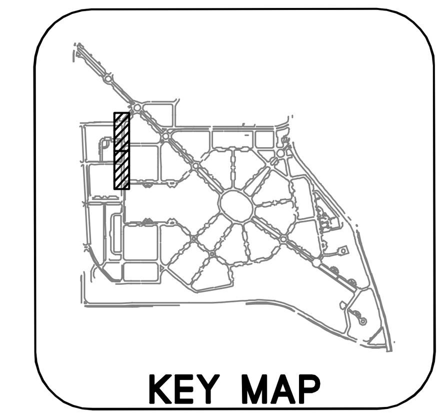

GRAPHIC SCALE

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SHEET NOTES

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HORIZONTAL CONTROL PLAN - ARBALLO DRIVE

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No.	Revisions

Date: 05/01/17
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C1.22

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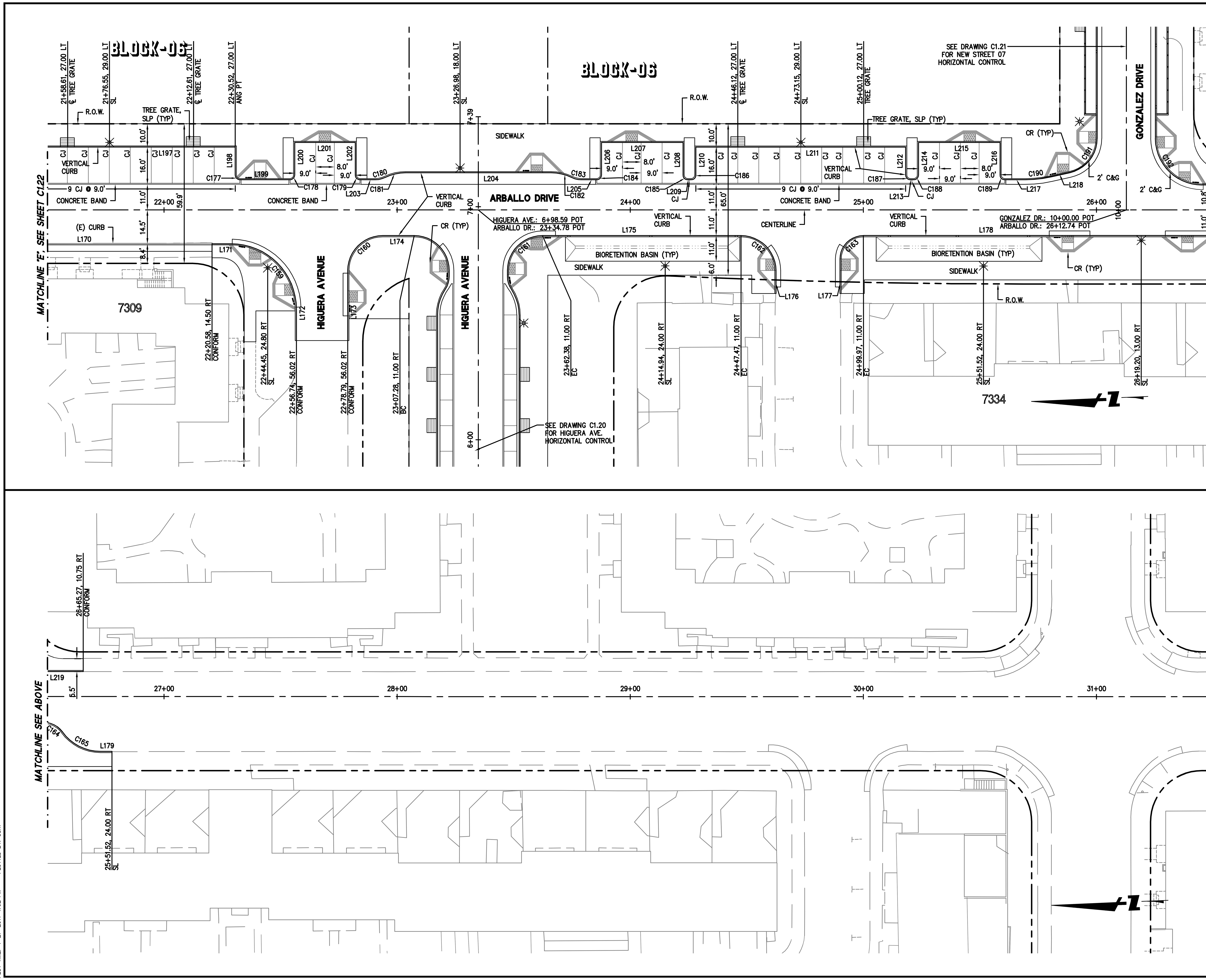

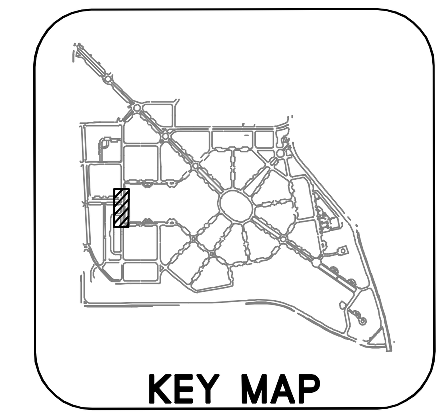

GRAPHIC SCALE

20 0 20 40

SHEET NOTES

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PHASE 1A STREET IMPROVEMENT PLANS

HORIZONTAL CONTROL PLAN - ARBALLO DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

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Job No: 20090086

Drawing Number:

C1.23

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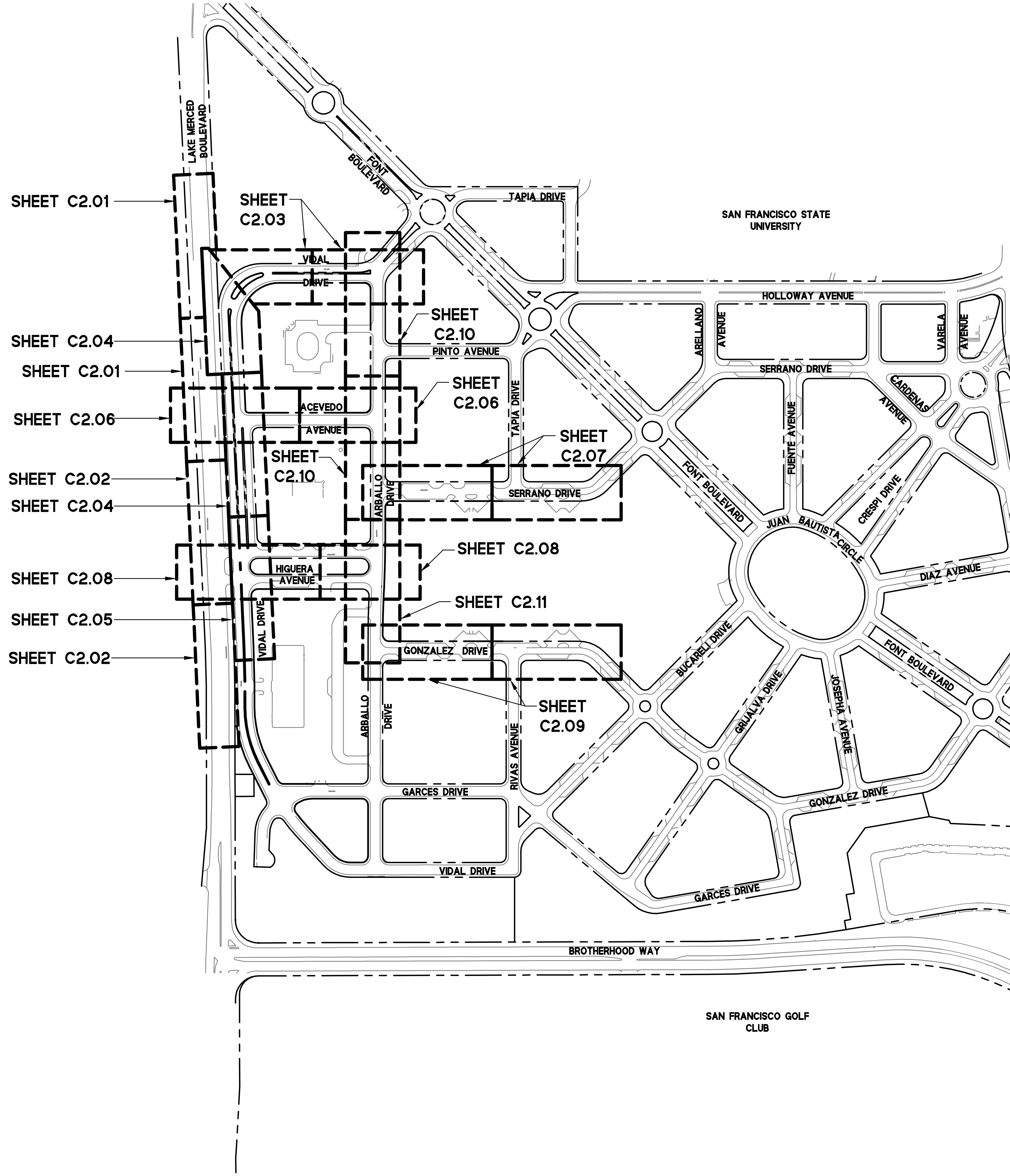
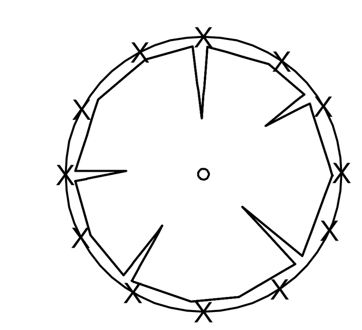
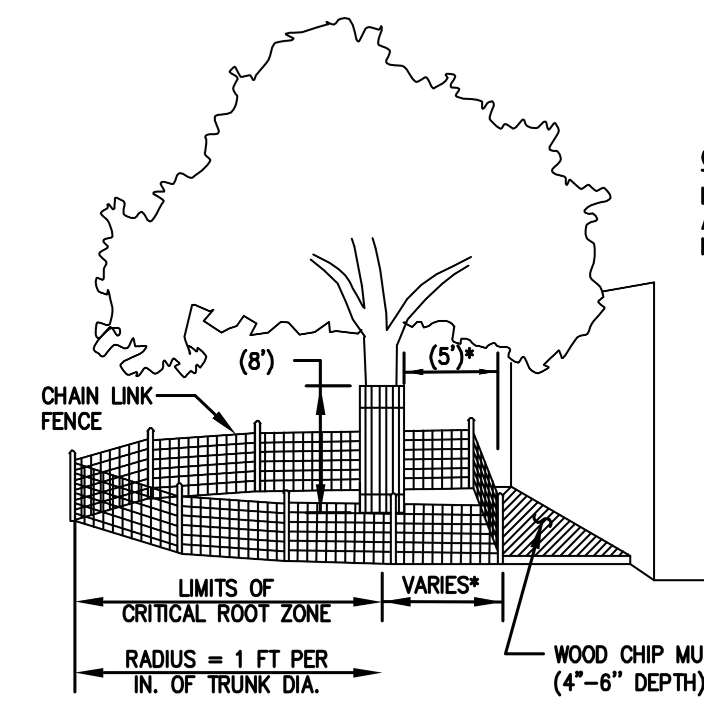


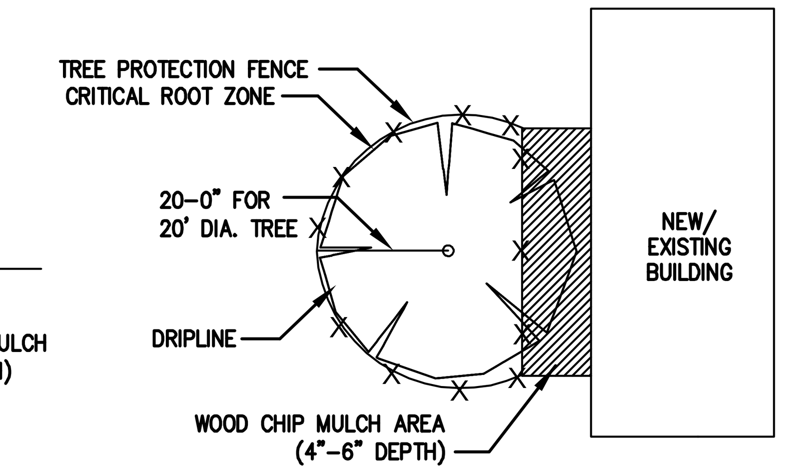


INDIVIDUAL TREE



*AS NEEDED TO PROVIDE NECESSARY WORK SPACE. IF LESS THAN 5', THEN ADD BOARDS STRAPPED TO TRUNK.

MODIFIED TYPE-A CHAIN LINK



PLAN VIEW

TREE PROTECTION FENCE

NTS

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR EXCAVATION).
2. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
3. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER, AND THE ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK.
4. MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF THE CONSTRUCTION TO THE CORRECT CONTROL INADEQUACIES.
5. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH HAS REACHED SIX (6) INCHES.
6. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS: ONE QUARE FOOT IN TOTAL AREA; BLOWS AIR FROM WITHIN THE SUBSTRATE AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME IT IS THE RESPONSIBILITY OF THE TRADE CONTRACTOR TO IMMEDIATELY CONTRACT THE CONSTRUCTION MANAGER.

GENERAL NOTES:

LIMITS OF WOOD CHIP MULCH AREA AND DISTANCE FROM TRUNK TO WORK AREA SHALL BE SUBJECT TO THE APPROVAL OF THE COLLEGE OF SAN MATEO DISTRICT.

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PHASE 1A STREET IMPROVEMENT PLANS
EXISTING CONDITIONS & DEMOLITION - KEY MAP

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
BRIAN K. SCOTT
No. 61034
Exp. 12/31/18
CIVIL
STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

No.	Revisions

Date: 05/01/17
Scale: 1"=200'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C2.00

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C200-Demo.dwg (C2.00)
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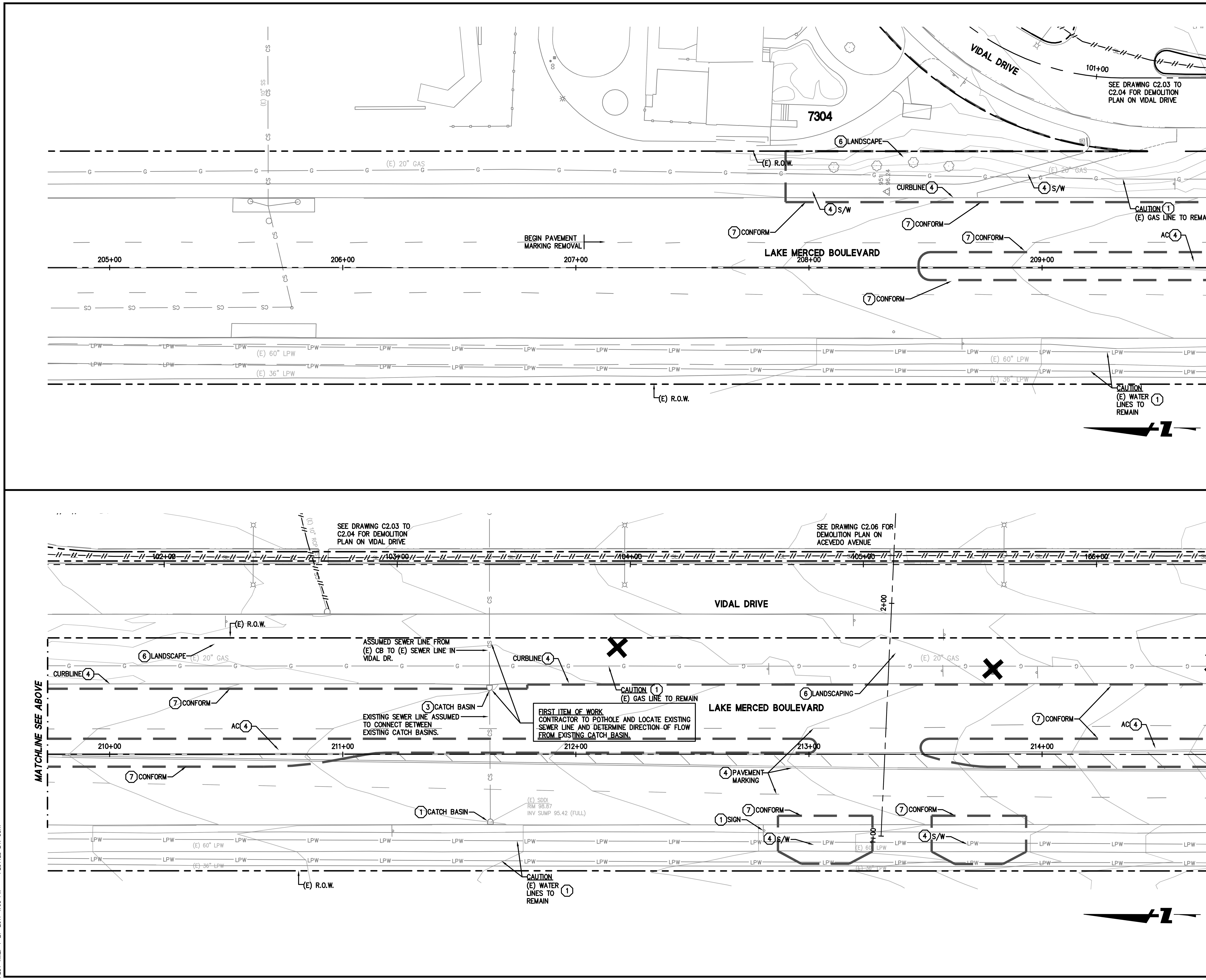

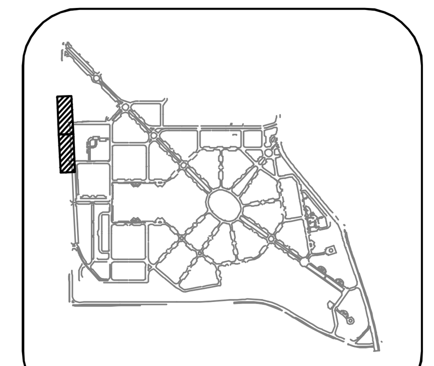

KEY MAP

GRAPHIC SCALE

20 0 20 40

SHEET NOTES

SEE JOINT TRENCH PLANS FOR ADDITIONAL DEMOLITION WORK.

LEGEND

- APPROXIMATE LIMIT OF DEMO/WORK
- EXISTING FEATURE TO BE REMOVED
- EXISTING TREE TO BE REMOVED, UNDER SEPERATE PERMIT BY OTHERS, TYP.
- EXISTING TREE TO BE RELOCATED, UNDER SEPERATE PERMIT BY OTHERS, TYP.
- 1 EXISTING UTILITY/FEATURE TO REMAIN. PROTECT AS NECESSARY DURING CONSTRUCTION
- 2 ADJUST EXISTING FEATURE/UTILITY TO GRADE
- 3 EXISTING UTILITY/FEATURE TO BE REPLACED
- 4 EXISTING FEATURE TO BE REMOVED
- 5 ABANDON EXISTING FEATURE/UTILITY
- 6 CLEAR & GRUB
- 7 SAWCUT
- 8 GRIND/MILL. SEE C5 SERIES FOR LIMITS.

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PHASE 1A STREET IMPROVEMENT PLANS

EXISTING CONDITIONS & DEMOLITION PLAN - LAKE MERCED BLVD

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BRIAN K. SCOTT No. 61058 Exp. 12/31/18 CIVIL STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
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Job No: 20090086

Drawing Number:

C2.01

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C201-Demo.dwg (C2.01)
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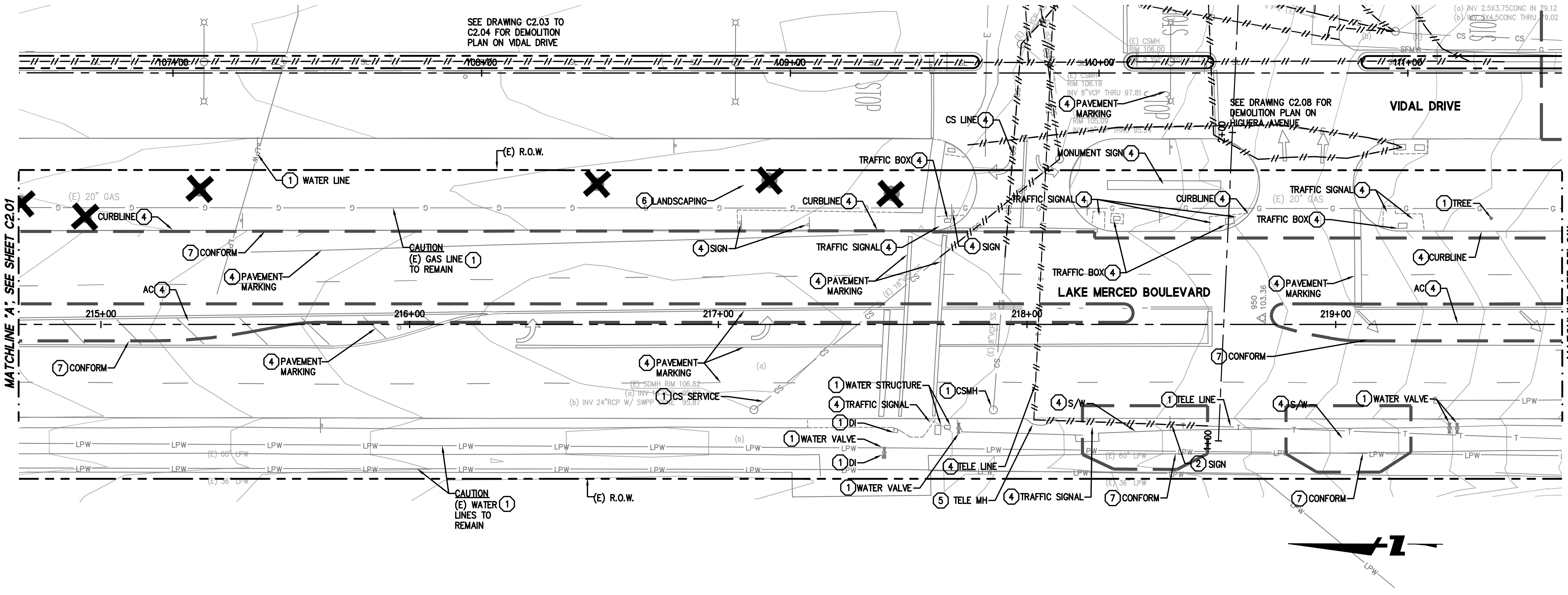

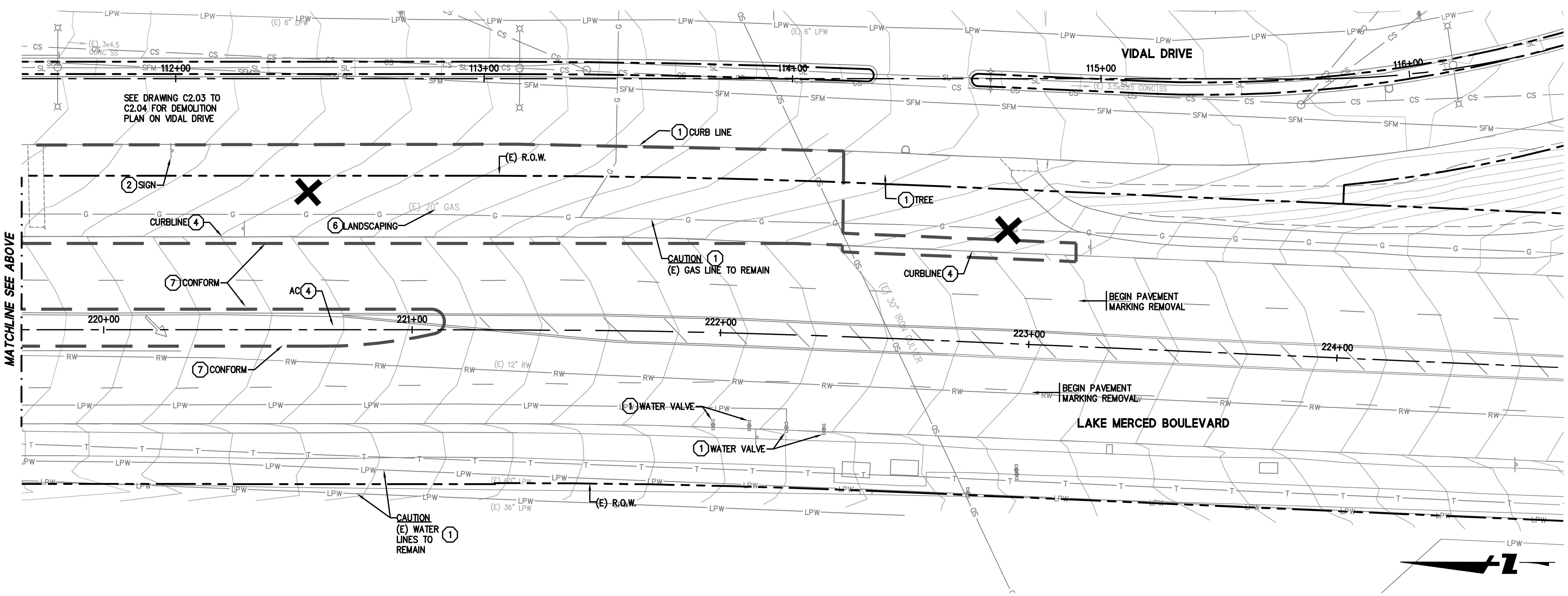

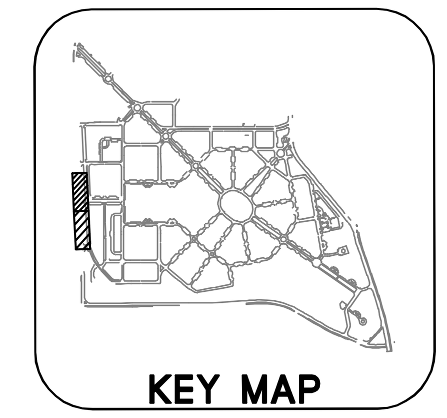

GRAPHIC SCALE

20 0 20 40

SHEET NOTES

SEE JOINT TRENCH PLANS FOR ADDITIONAL DEMOLITION WORK.

LEGEND

- APPROXIMATE LIMIT OF DEMO/WORK
- EXISTING FEATURE TO BE REMOVED
- EXISTING TREE TO BE REMOVED, UNDER SEPERATE PERMIT BY OTHERS, TYP.
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PHASE 1A STREET IMPROVEMENT PLANS
EXISTING CONDITIONS & DEMOLITION PLAN - LAKE MERCED BLVD

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No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
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Approved: BS
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Drawing Number:
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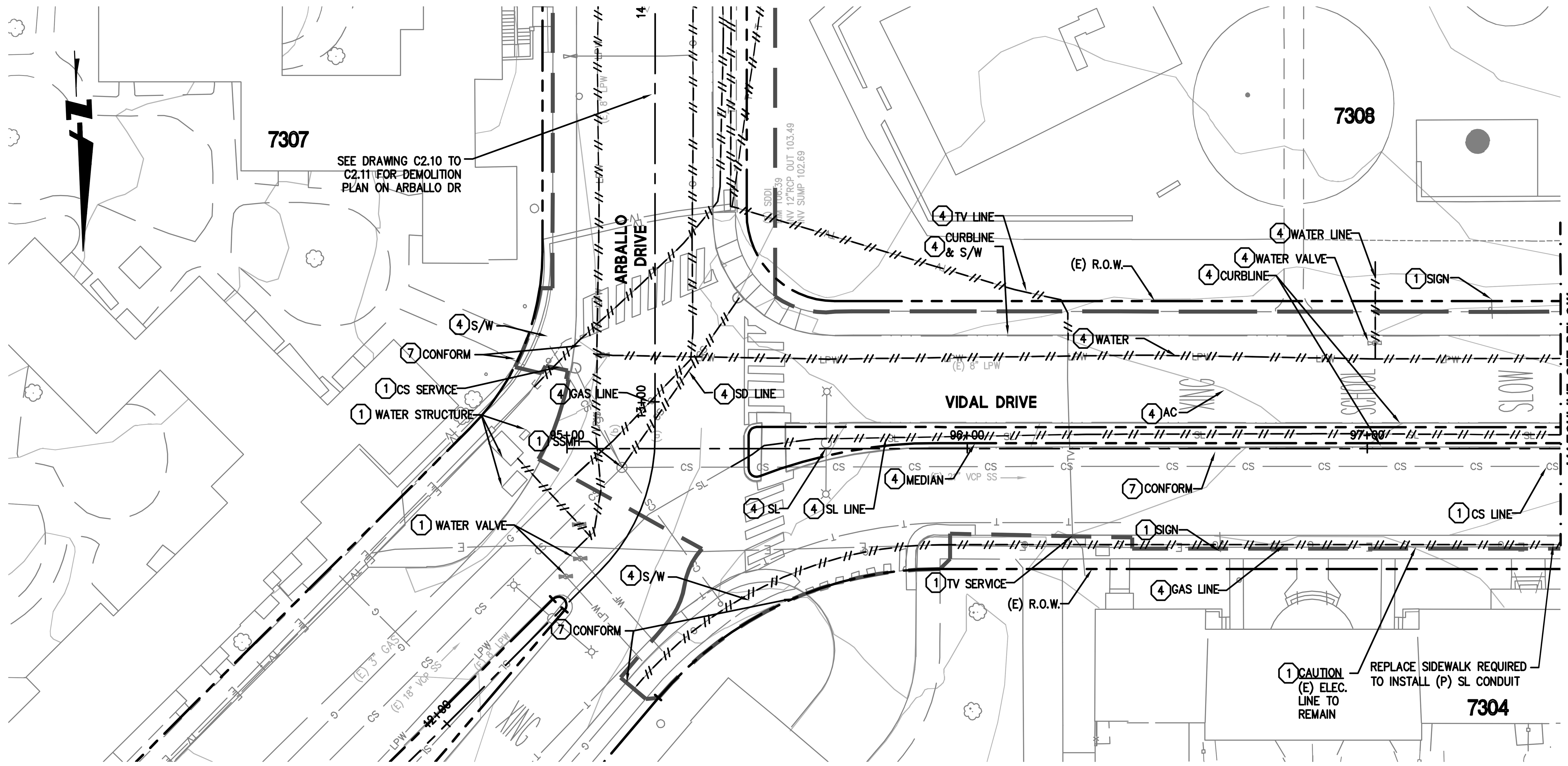

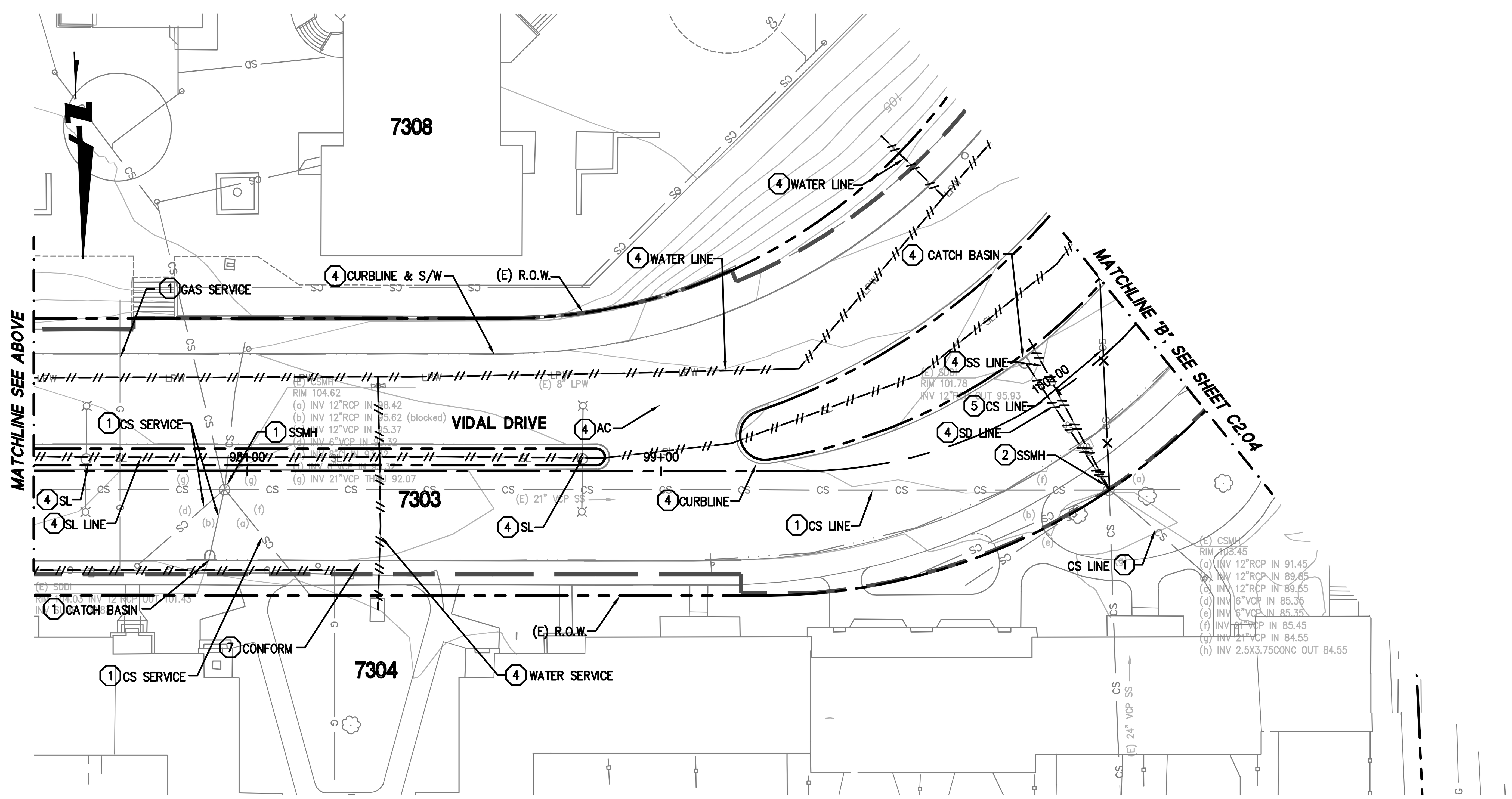

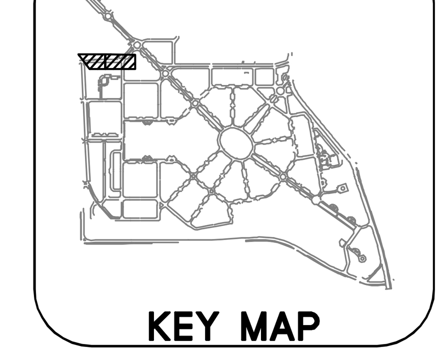

GRAPHIC SCALE
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SHEET NOTES

SEE JOINT TRENCH PLANS FOR ADDITIONAL DEMOLITION WORK.

LEGEND

- APPROXIMATE LIMIT OF DEMO/WORK
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PHASE 1A STREET IMPROVEMENT PLANS
EXISTING CONDITIONS & DEMOLITION PLAN - VIDAL (NORTH) DRIVE
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

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Scale: 1"=20'
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Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C2.03

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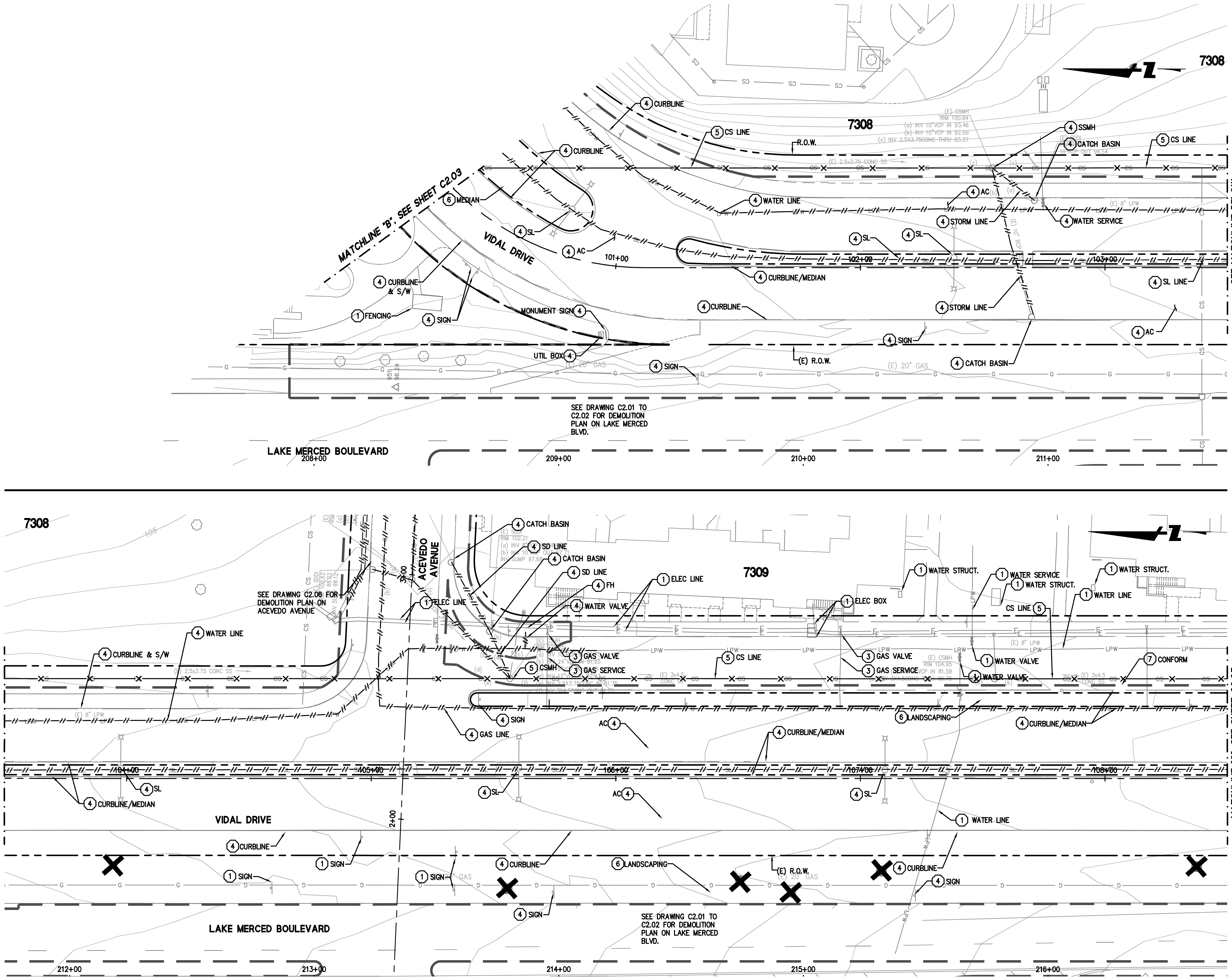

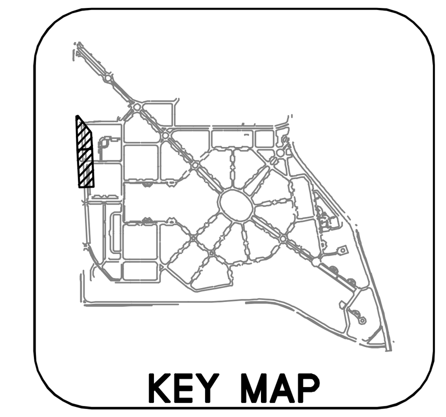

GRAPHIC SCALE

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SHEET NOTES

SEE JOINT TRENCH PLANS FOR ADDITIONAL DEMOLITION WORK.

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- EXISTING TREE TO BE REMOVED, UNDER SEPERATE PERMIT BY OTHERS, TYP.
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- 7 SAWCUT
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EXISTING CONDITIONS & DEMOLITION PLAN - VIDAL DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

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Approved: BS
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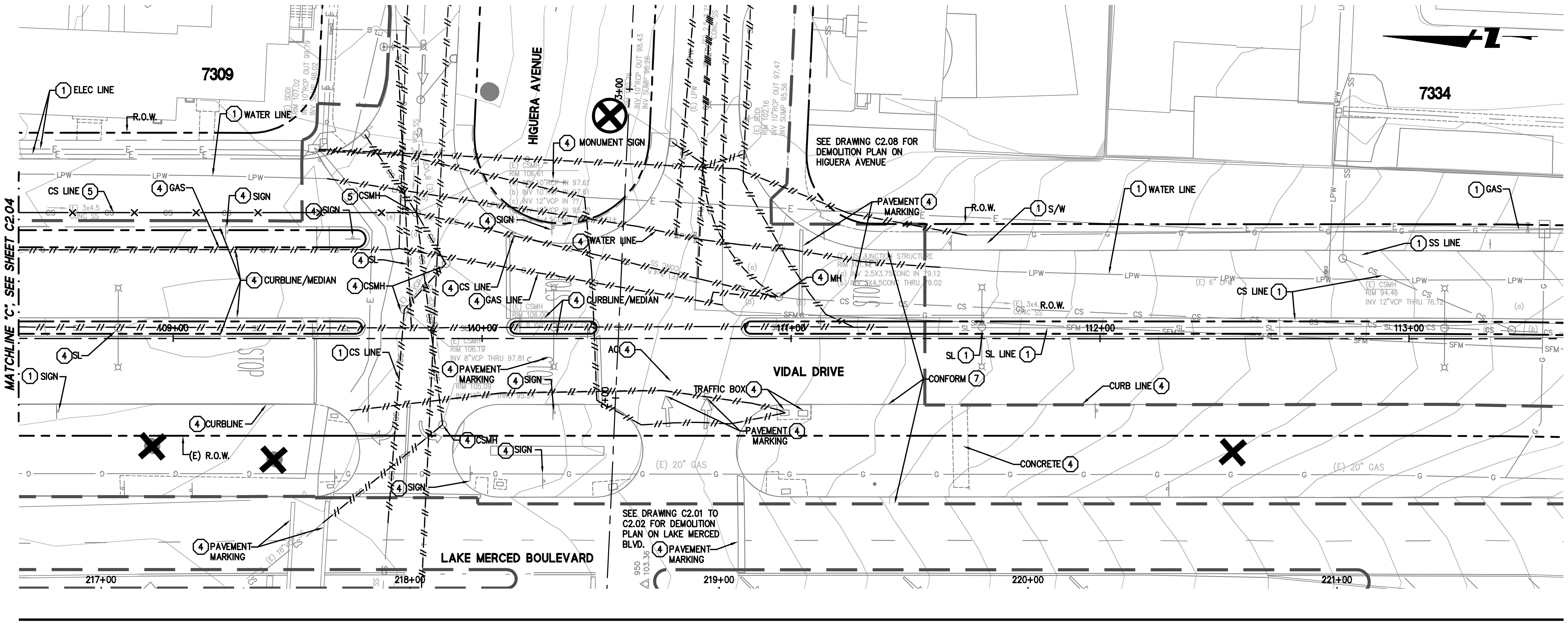

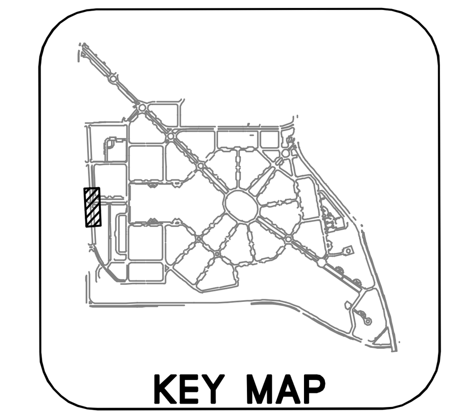

GRAPHIC SCALE
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SHEET NOTES

SEE JOINT TRENCH PLANS FOR ADDITIONAL DEMOLITION WORK.

LEGEND

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- EXISTING FEATURE TO BE REMOVED
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- EXISTING TREE TO BE RELOCATED, UNDER SEPERATE PERMIT BY OTHERS, TYP.
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- (2) ADJUST EXISTING FEATURE/UTILITY TO GRADE
- (3) EXISTING UTILITY/FEATURE TO BE REPLACED
- (4) EXISTING FEATURE TO BE REMOVED
- (5) ABANDON EXISTING FEATURE/UTILITY
- (6) CLEAR & GRUB
- (7) SAWCUT
- (8) GRIND/MILL. SEE C5 SERIES FOR LIMITS.

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PHASE 1A STREET IMPROVEMENT PLANS
EXISTING CONDITIONS & DEMOLITION PLAN - VIDAL DRIVE

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C2.05

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C201-Demo.dwg (C2.05)
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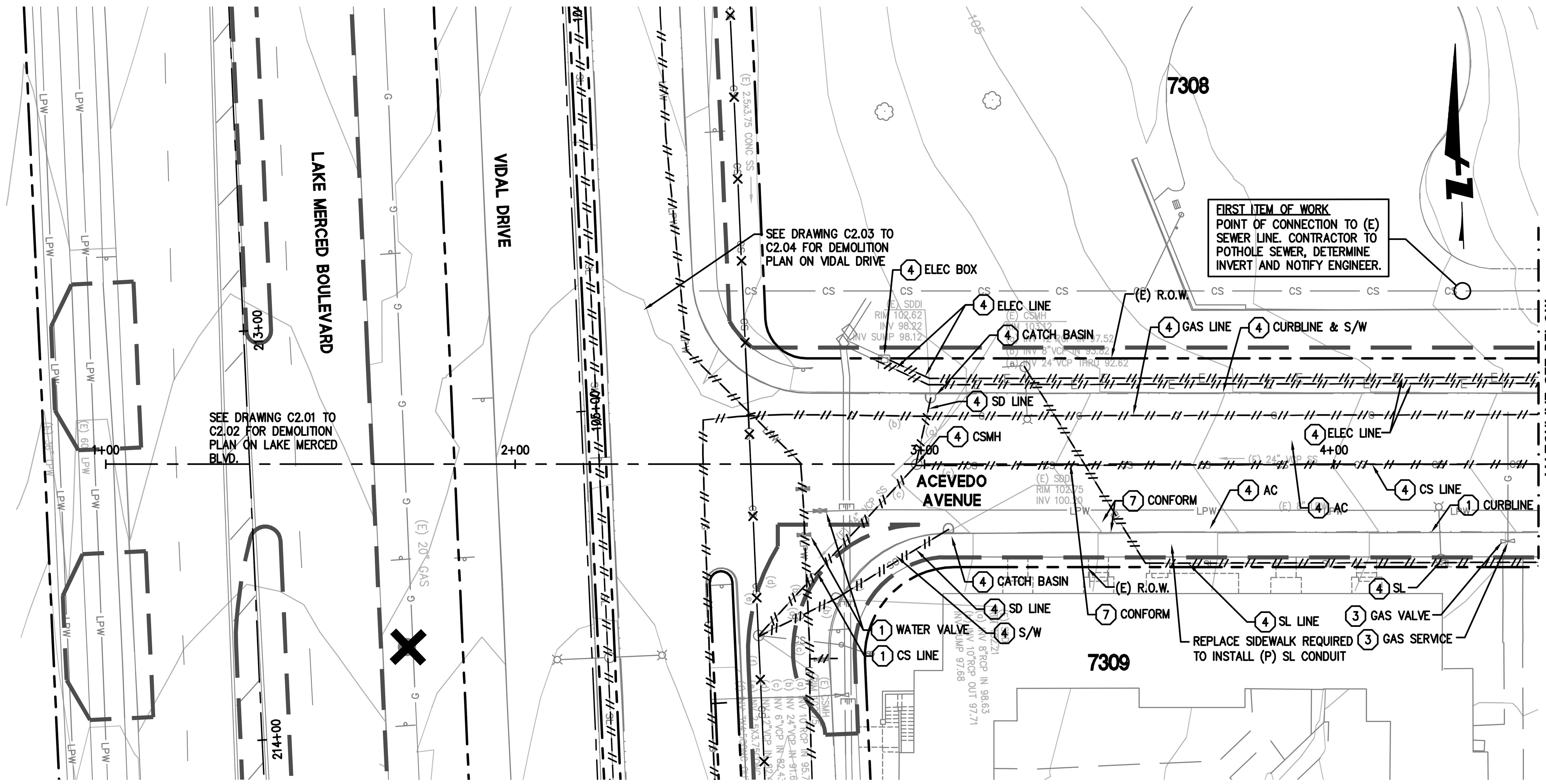
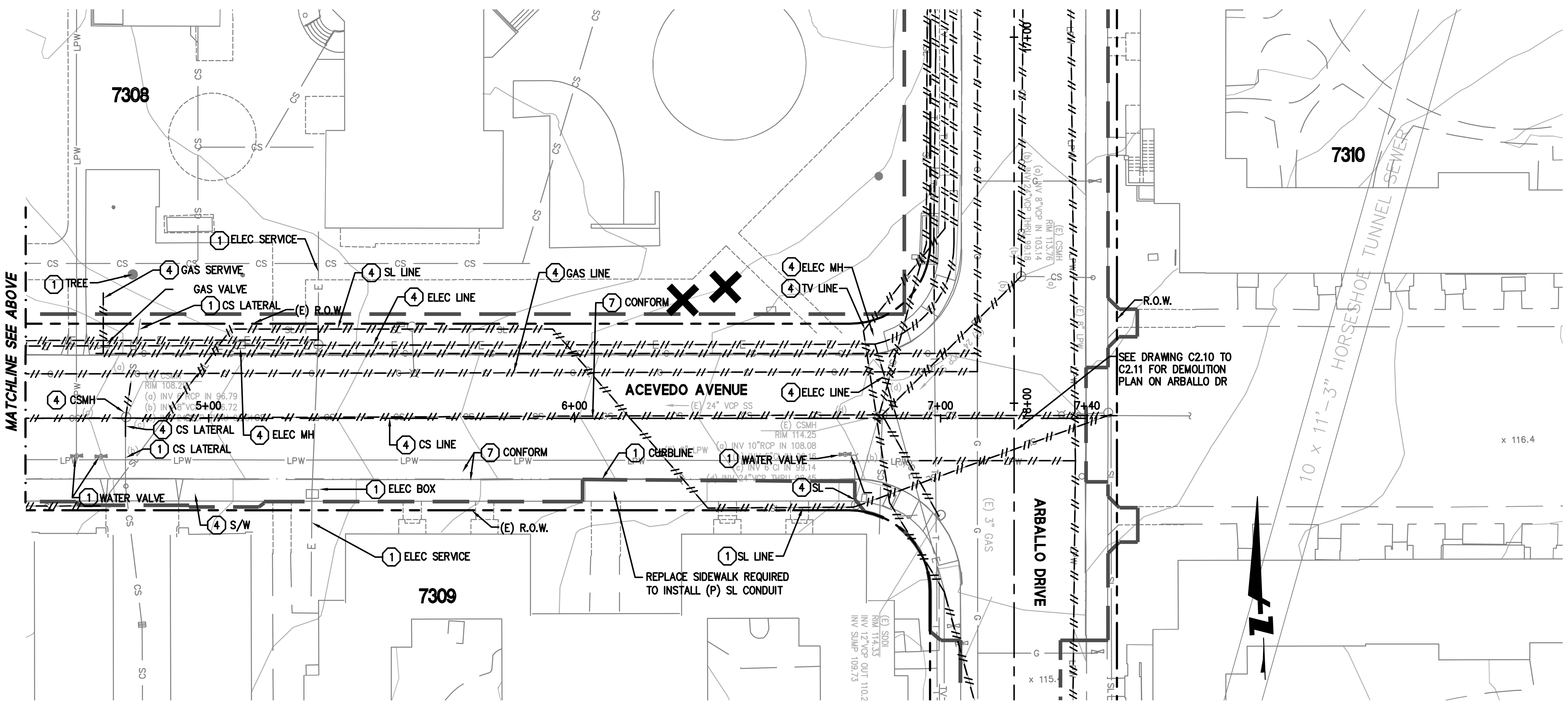
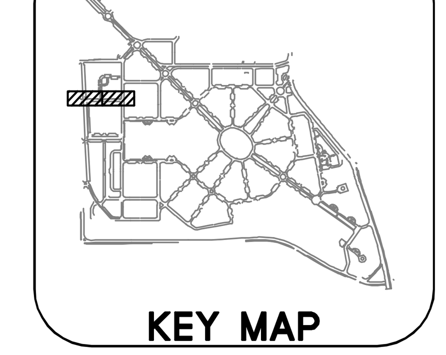
APPROVED SET FOR BOARD SUBMITTAL 05.01.17







GRAPHIC SCALE

20 0 20 40

SHEET NOTES

SEE JOINT TRENCH PLANS FOR ADDITIONAL DEMOLITION WORK.

LEGEND

- APPROXIMATE LIMIT OF DEMO/WORK
- EXISTING FEATURE TO BE REMOVED
- EXISTING TREE TO BE REMOVED, UNDER SEPERATE PERMIT BY OTHERS, TYP.
- EXISTING TREE TO BE RELOCATED, UNDER SEPERATE PERMIT BY OTHERS, TYP.
- 1 EXISTING UTILITY/FEATURE TO REMAIN. PROTECT AS NECESSARY DURING CONSTRUCTION
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- 4 EXISTING FEATURE TO BE REMOVED
- 5 ABANDON EXISTING FEATURE/UTILITY
- 6 CLEAR & GRUB
- 7 SAWCUT
- 8 GRIND/MILL. SEE C5 SERIES FOR LIMITS.

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EXISTING CONDITIONS & DEMOLITION PLAN - ACEVEDO AVENUE

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No.	Revisions

Date: 05/01/17
Scale: 1"=20'
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Approved: BS
Job No: 20090086

Drawing Number:
C2.06

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C201-Demo.dwg (C2.06)
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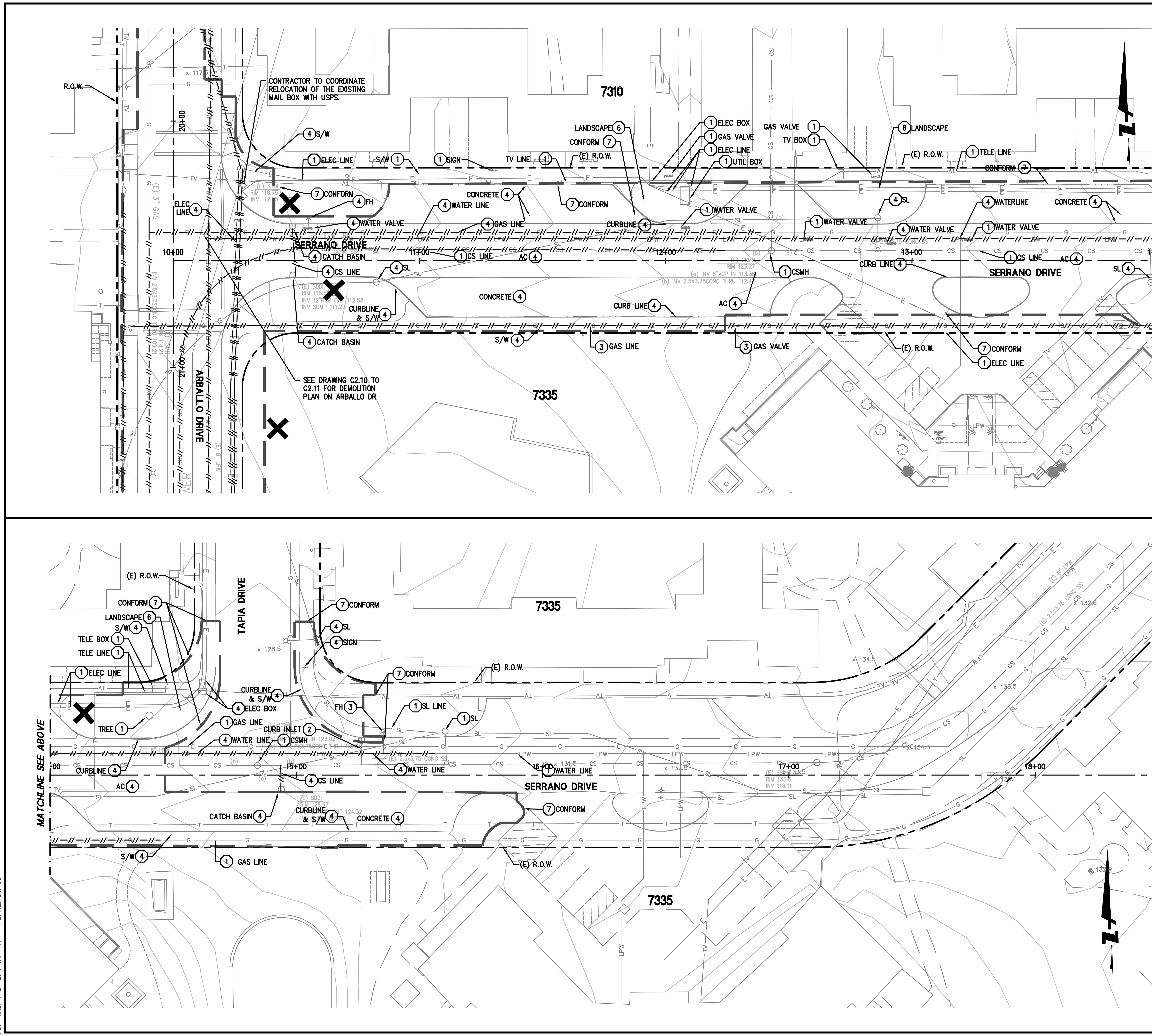

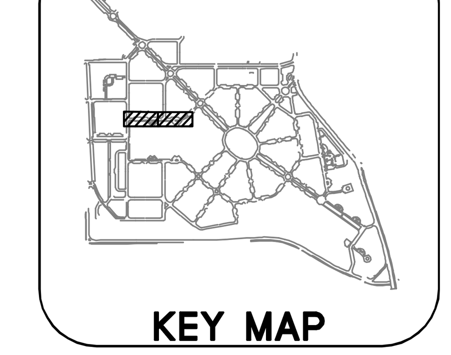

GRAPHIC SCALE

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LEGEND

- APPROXIMATE LIMIT OF DEMO/WORK
- EXISTING FEATURE TO BE REMOVED
- EXISTING TREE TO BE REMOVED, UNDER SEPERATE PERMIT BY OTHERS, TYP.
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- 4 EXISTING FEATURE TO BE REMOVED
- 5 ABANDON EXISTING FEATURE/UTILITY
- 6 CLEAR & GRUB
- 7 SAWCUT
- 8 GRIND/MILL. SEE C5 SERIES FOR LIMITS.

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EXISTING CONDITIONS & DEMOLITION PLAN - SERRANO DRIVE

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No.	Revisions

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Drawing Number:

C2.07

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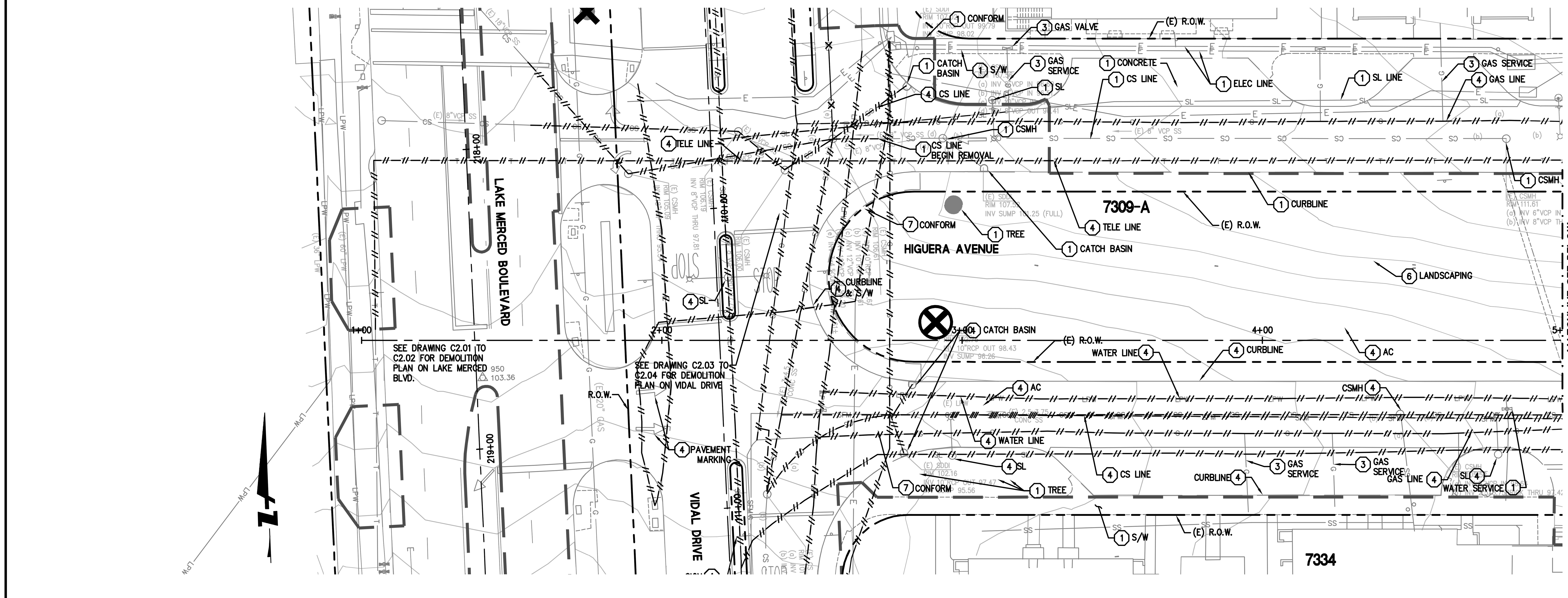

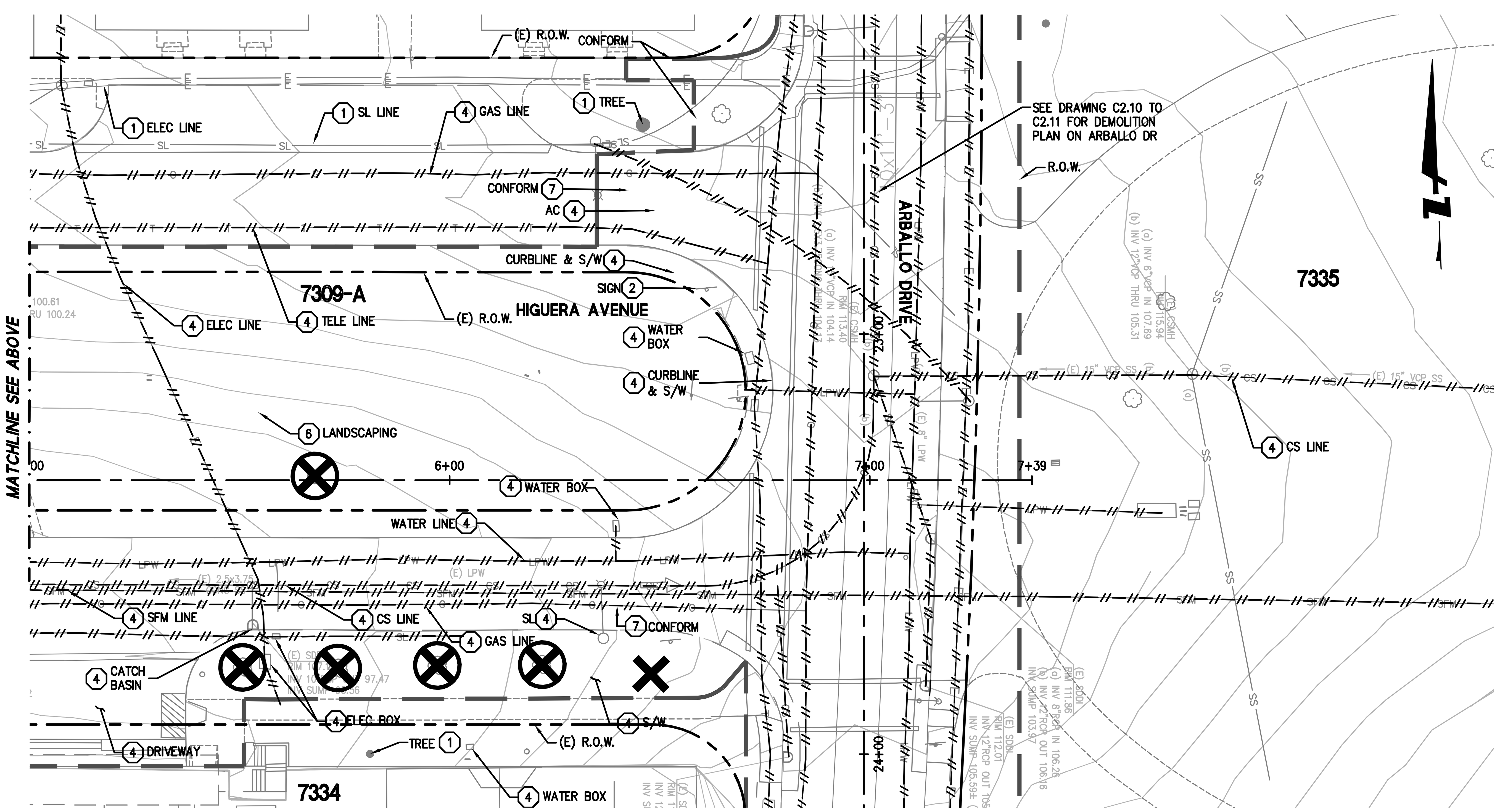

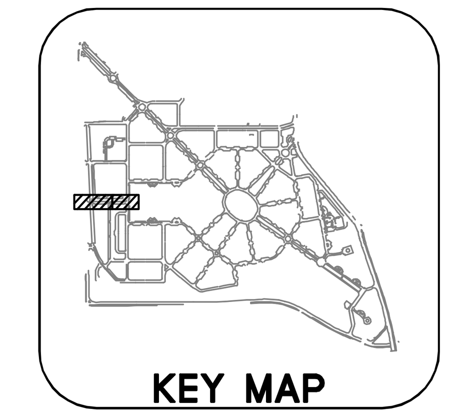

GRAPHIC SCALE

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SHEET NOTES

SEE JOINT TRENCH PLANS FOR ADDITIONAL DEMOLITION WORK.

LEGEND

- APPROXIMATE LIMIT OF DEMO/WORK
- EXISTING FEATURE TO BE REMOVED
- EXISTING TREE TO BE REMOVED, UNDER SEPERATE PERMIT BY OTHERS, TYP.
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EXISTING CONDITIONS & DEMOLITION PLAN - HIGUERA AVENUE

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Drawing Number:
C2.08

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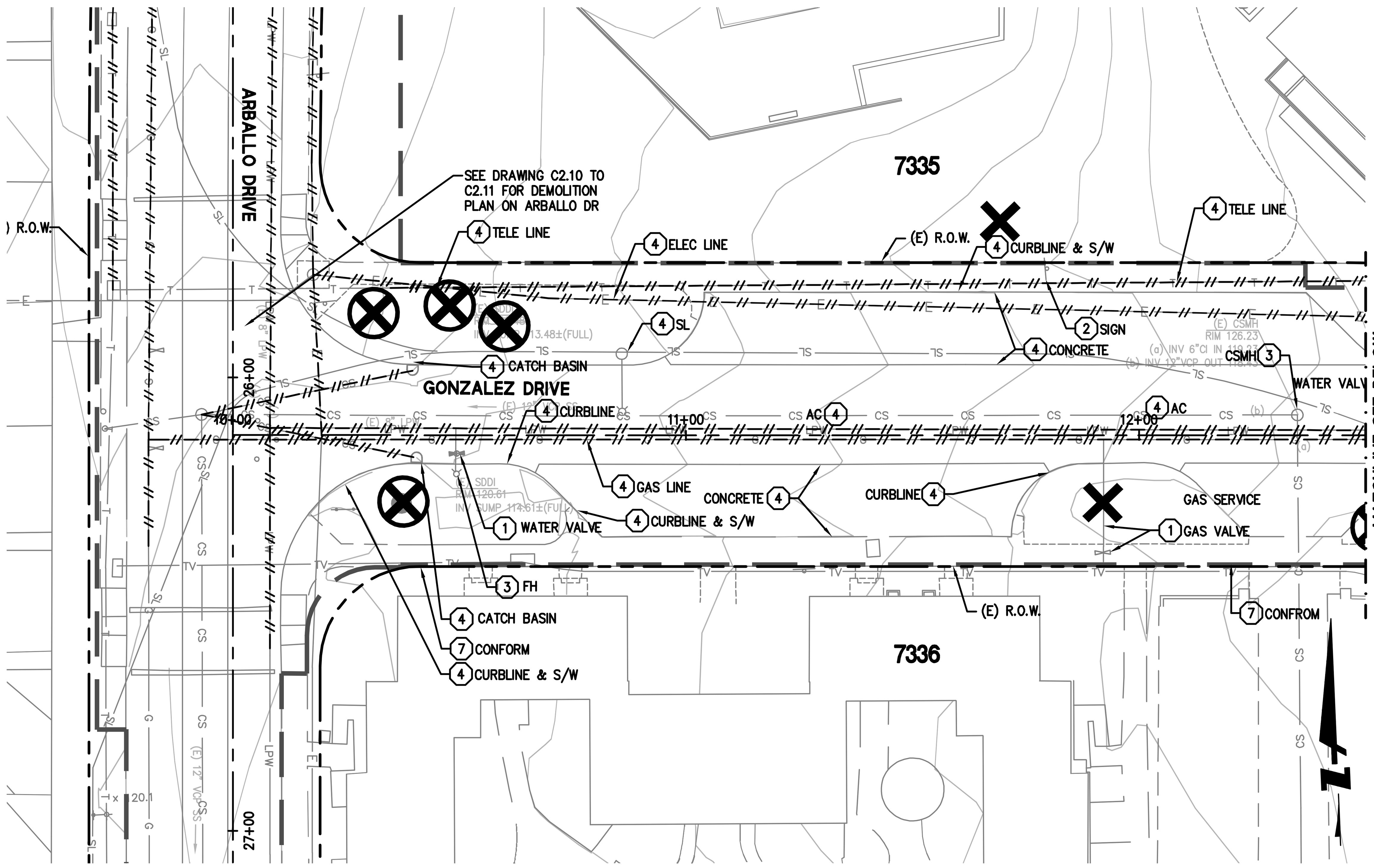

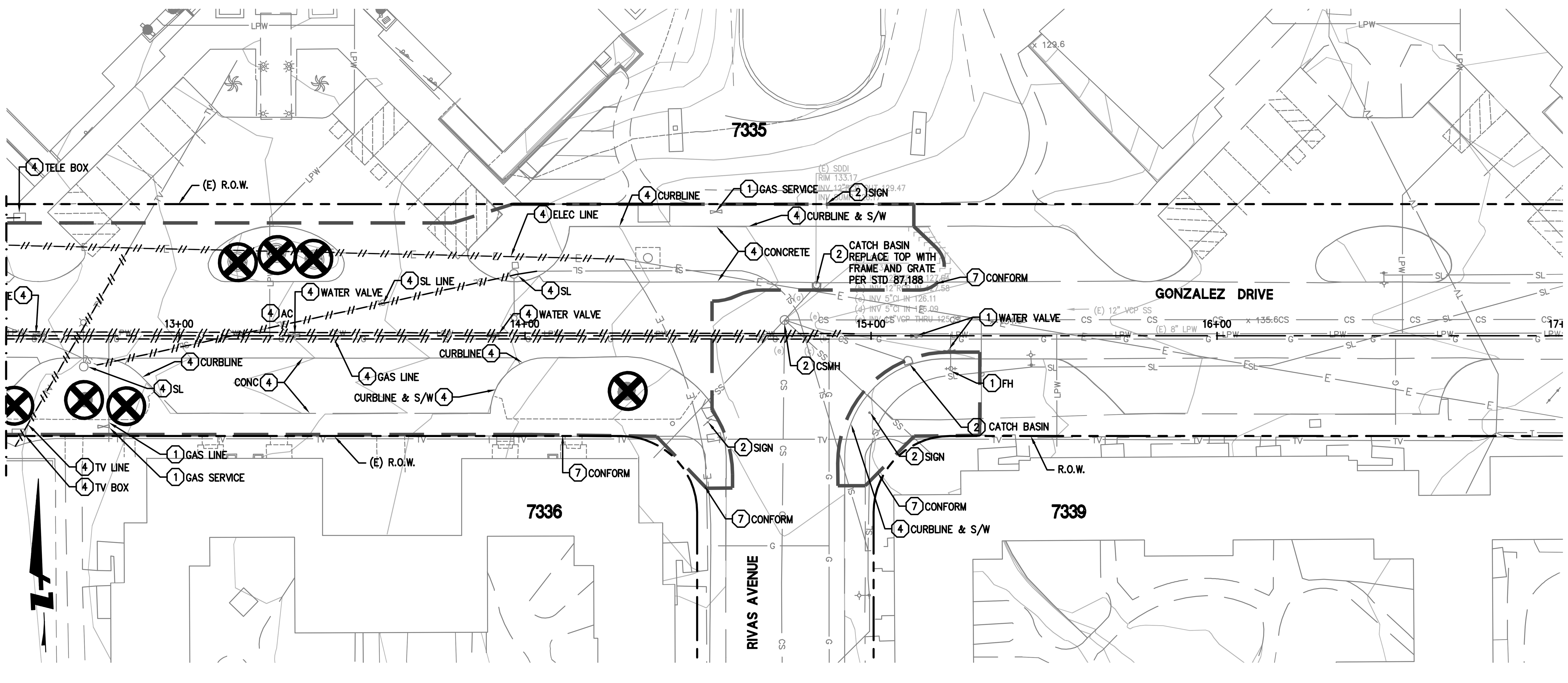

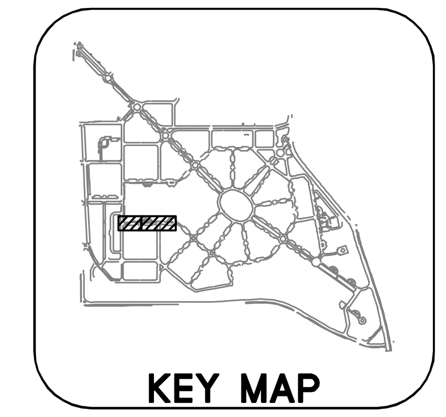

GRAPHIC SCALE

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SHEET NOTES

SEE JOINT TRENCH PLANS FOR ADDITIONAL DEMOLITION WORK.

LEGEND

- APPROXIMATE LIMIT OF DEMO/WORK
- EXISTING FEATURE TO BE REMOVED
- EXISTING TREE TO BE REMOVED, UNDER SEPERATE PERMIT BY OTHERS, TYP.
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- 8 GRIND/MILL. SEE C5 SERIES FOR LIMITS.

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PHASE 1A STREET IMPROVEMENT PLANS

EXISTING CONDITIONS & DEMOLITION PLAN - GONZALEZ DRIVE

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No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C2.09

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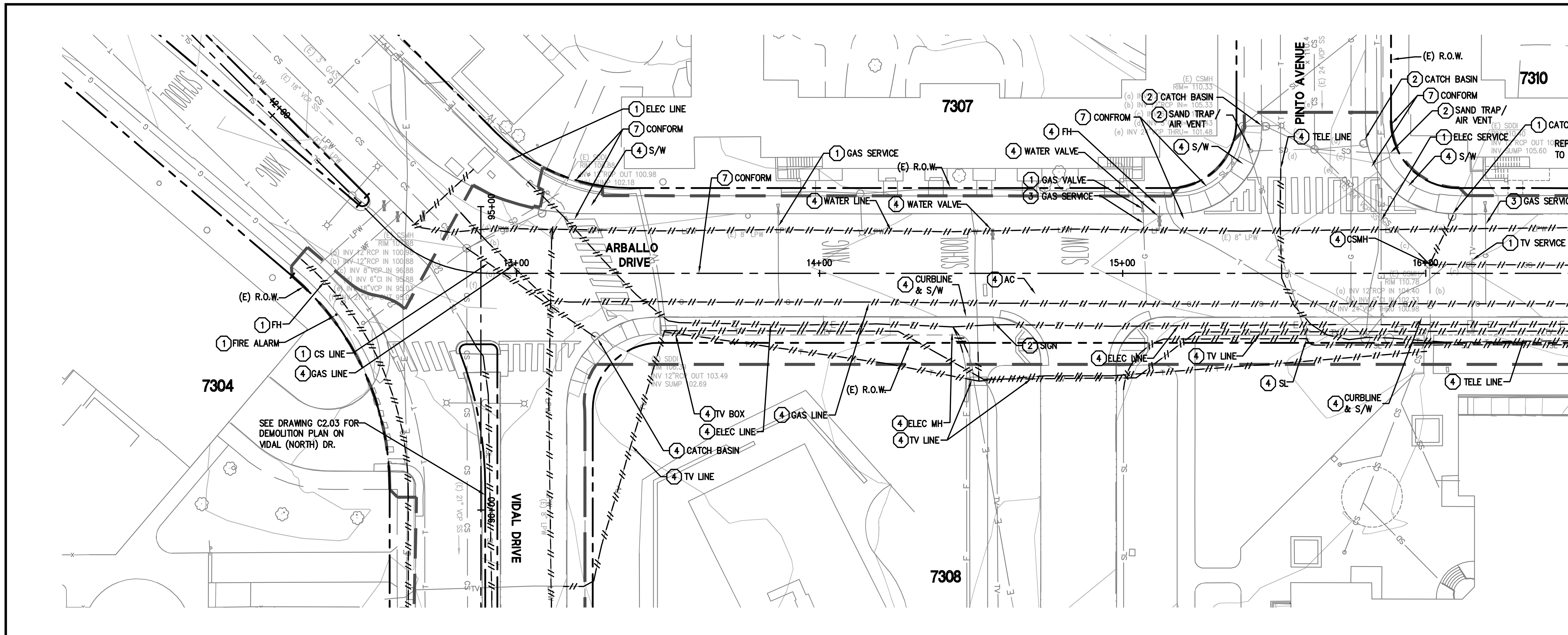

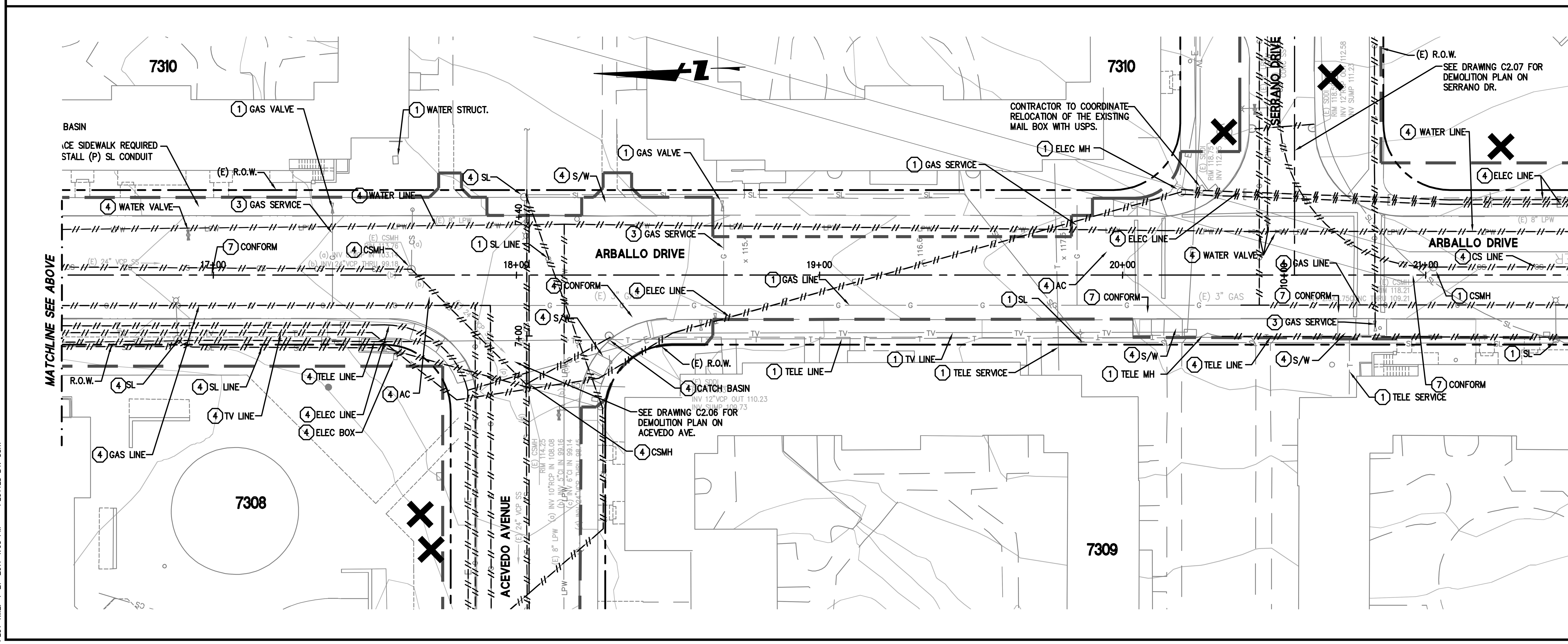

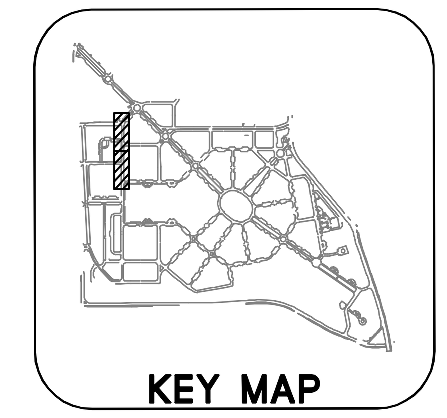

GRAPHIC SCALE

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SHEET NOTES

SEE JOINT TRENCH PLANS FOR ADDITIONAL DEMOLITION WORK.

LEGEND

- APPROXIMATE LIMIT OF DEMO/WORK
- EXISTING FEATURE TO BE REMOVED
- EXISTING TREE TO BE REMOVED, UNDER SEPERATE PERMIT BY OTHERS, TYP.
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- 6 CLEAR & GRUB
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- 8 GRIND/MILL. SEE C5 SERIES FOR LIMITS.

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EXISTING CONDITIONS & DEMOLITION PLAN - ARBALLO DRIVE

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No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C2.10

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C201-Demo.dwg (C2.10)
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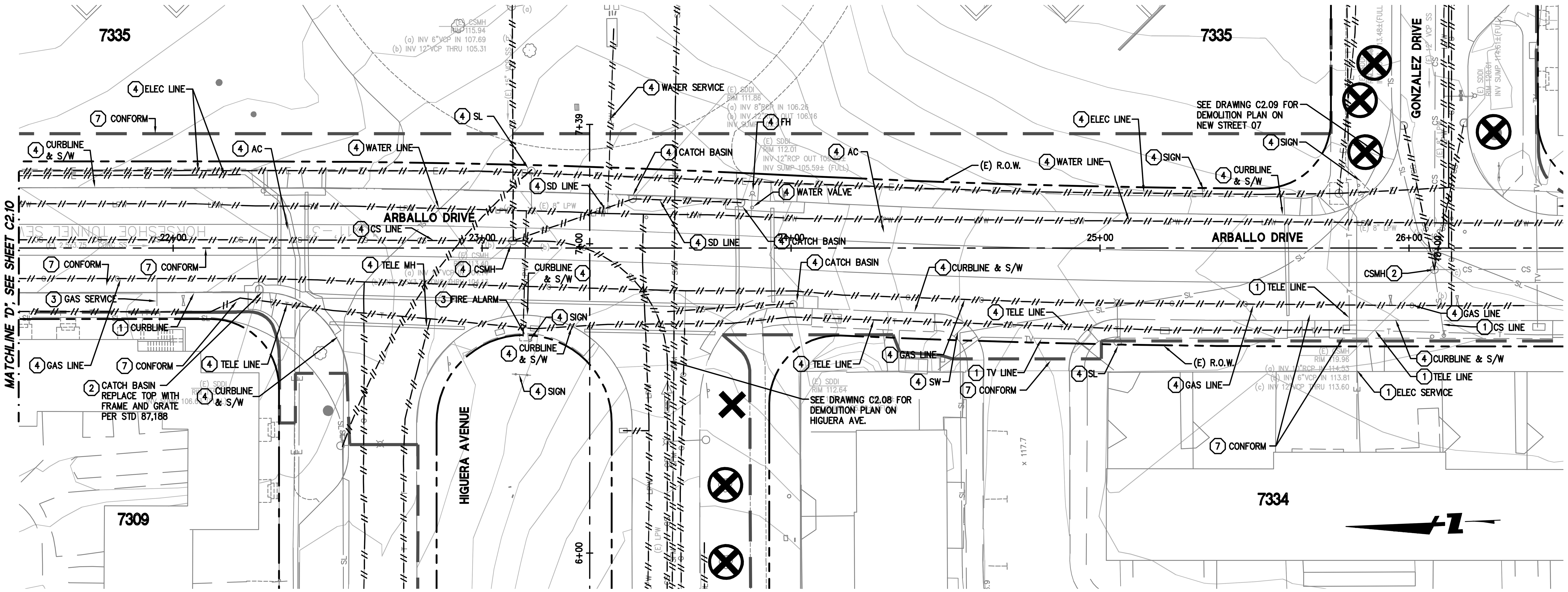

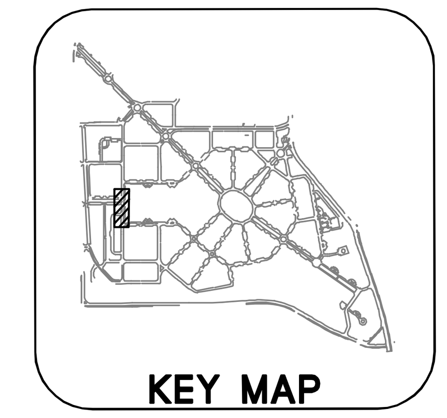

GRAPHIC SCALE

20 0 20 40

SHEET NOTES

SEE JOINT TRENCH PLANS FOR ADDITIONAL DEMOLITION WORK.

LEGEND

— —	APPROXIMATE LIMIT OF DEMO/WORK
—//—	EXISTING FEATURE TO BE REMOVED
X	EXISTING TREE TO BE REMOVED, UNDER SEPERATE PERMIT BY OTHERS, TYP.
⊗	EXISTING TREE TO BE RELOCATED, UNDER SEPERATE PERMIT BY OTHERS, TYP.
1	EXISTING UTILITY/FEATURE TO REMAIN. PROTECT AS NECESSARY DURING CONSTRUCTION
2	ADJUST EXISTING FEATURE/UTILITY TO GRADE
3	EXISTING UTILITY/FEATURE TO BE REPLACED
4	EXISTING FEATURE TO BE REMOVED
5	ABANDON EXISTING FEATURE/UTILITY
6	CLEAR & GRUB
7	SAWCUT
8	GRIND/MILL. SEE C5 SERIES FOR LIMITS.

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PHASE 1A STREET IMPROVEMENT PLANS

EXISTING CONDITIONS & DEMOLITION PLAN - ARBALLO DRIVE

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No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C2.11

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C201-Demo.dwg (C2.11)
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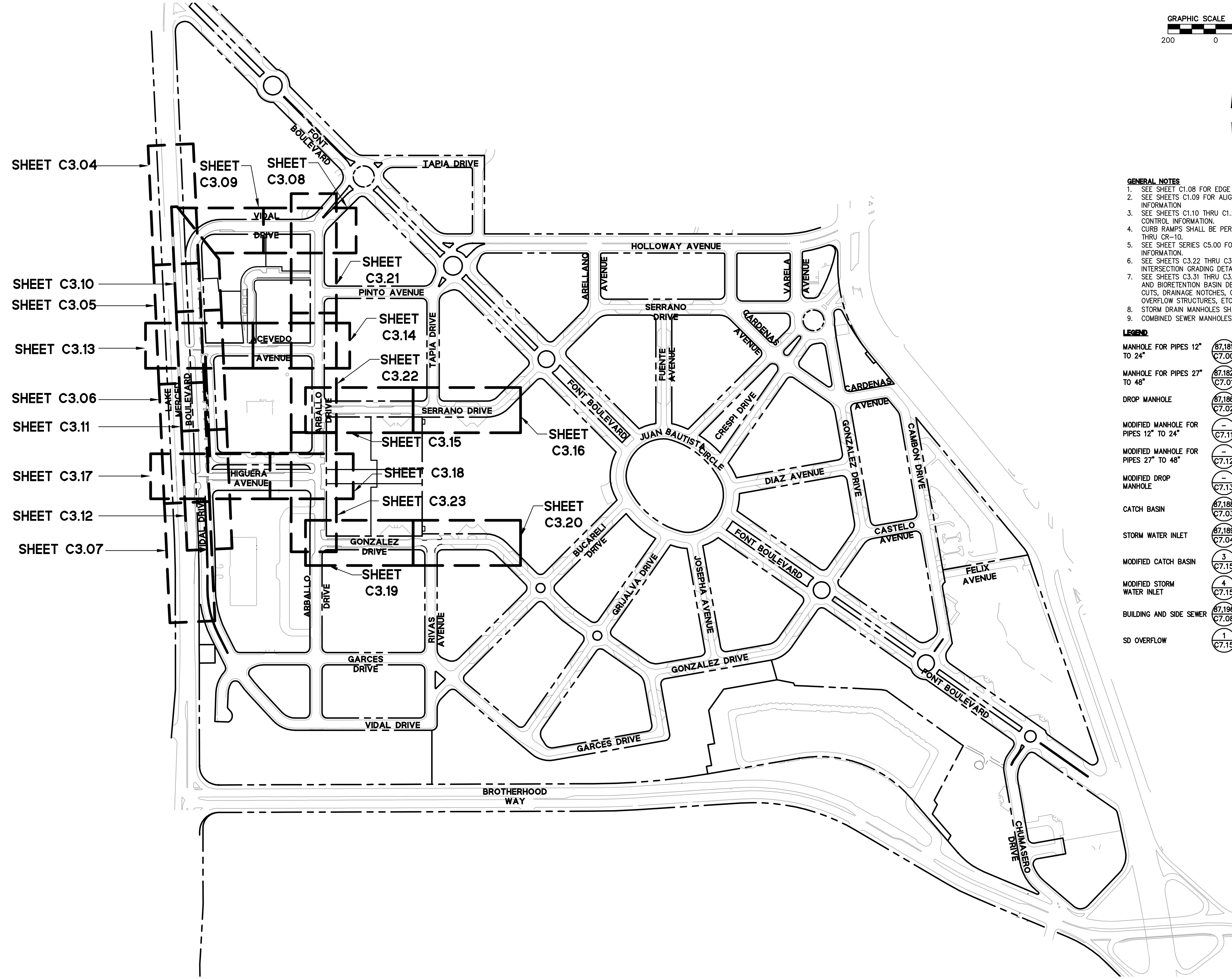

GENERAL NOTES

1. SEE SHEET C1.08 FOR EDGE TREATMENT DETAIL REFERENCES.
2. SEE SHEETS C1.09 FOR ALIGNMENT HORIZONTAL CONTROL INFORMATION
3. SEE SHEETS C1.10 THRU C1.23 FOR CURB HORIZONTAL CONTROL INFORMATION.
4. CURB RAMPS SHALL BE PER CITY STANDARD PLAN CR-1 THRU CR-10.
5. SEE SHEET SERIES C5.00 FOR PAVING, SIGNING & STRIPING INFORMATION.
6. SEE SHEETS C3.22 THRU C3.28 FOR CURB RAMP AND INTERSECTION GRADING DETAILS.
7. SEE SHEETS C3.31 THRU C3.42 FOR BIORETENTION PLANTER AND BIORETENTION BASIN DETAILS, INCLUDING GRADING, CURB CUTS, DRAINAGE NOTCHES, CHECK DAMS, LATERAL BRACING, OVERFLOW STRUCTURES, ETC.
8. STORM DRAIN MANHOLES SHALL BE LABELED "SD"
9. COMBINED SEWER MANHOLES SHALL BE LABELED "CS"

LEGEND

MANHOLE FOR PIPES 12" TO 24"	87,181 / C7.00	SD BUBBLE UP	3 / C7.15
MANHOLE FOR PIPES 27" TO 48"	87.182 / C7.01	SC, SS, SD TRENCH	4 / C7.15
DROP MANHOLE	87,186 / C7.02	STABILIZED OUTFALL	5 / C7.15
MODIFIED MANHOLE FOR PIPES 12" TO 24"	– / C7.11	BIORETENTION PLANTER	1,2 / C7.18
MODIFIED MANHOLE FOR PIPES 27" TO 48"	– / C7.12	BOIRETENTION BASIN	1 / C7.19
MODIFIED DROP MANHOLE	– / C7.13	PLANTER WALL WITH LATERAL BRACING	3 / C7.18
CATCH BASIN	87,188 / C7.03	CONCRETE BRACING WALL	3 / C7.18
STORM WATER INLET	87,189 / C7.04	INLET – CURB CUT TYPE 1	1 / C7.20
MODIFIED CATCH BASIN	3 / C7.15	INLET – CURB CUT TYPE 2	2 / C7.20
MODIFIED STORM WATER INLET	4 / C7.15	OUTLET – CURB CUT (INLET/OUTLET)	1 / C7.21
BUILDING AND SIDE SEWER	87,196 / C7.08	CHECK DAMS	2 / C7.21
SD OVERFLOW	1 / C7.15	LATERAL PROFILE CALLOUT, SEE C3.43–C3.48	#

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PHASE 1A STREET IMPROVEMENT PLANS
GRADING PLAN & PROFILE – KEY MAP

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No.	Revisions

Date: 05/01/17
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Job No: 20090086

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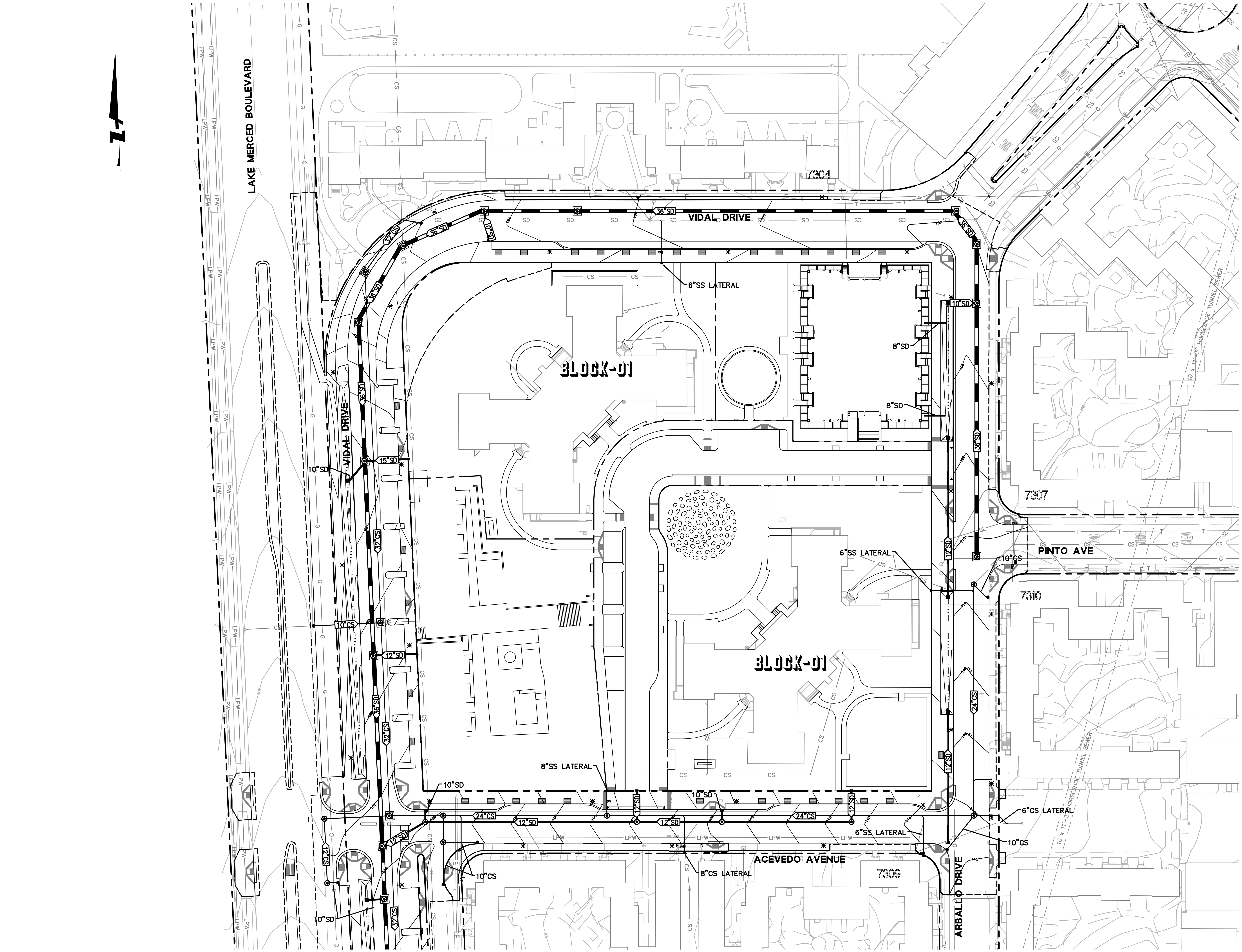

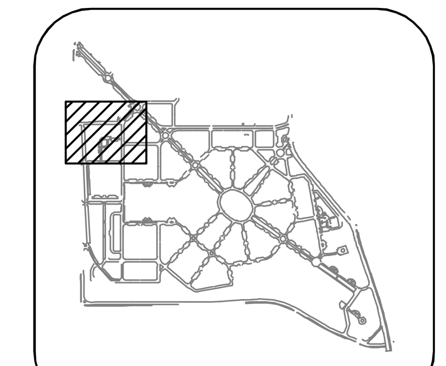
KEY MAP

GRAPHIC SCALE
40 0 40 80

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PHASE 1A STREET IMPROVEMENT PLANS
GRADING PLAN - NORTHWEST

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=40'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.01

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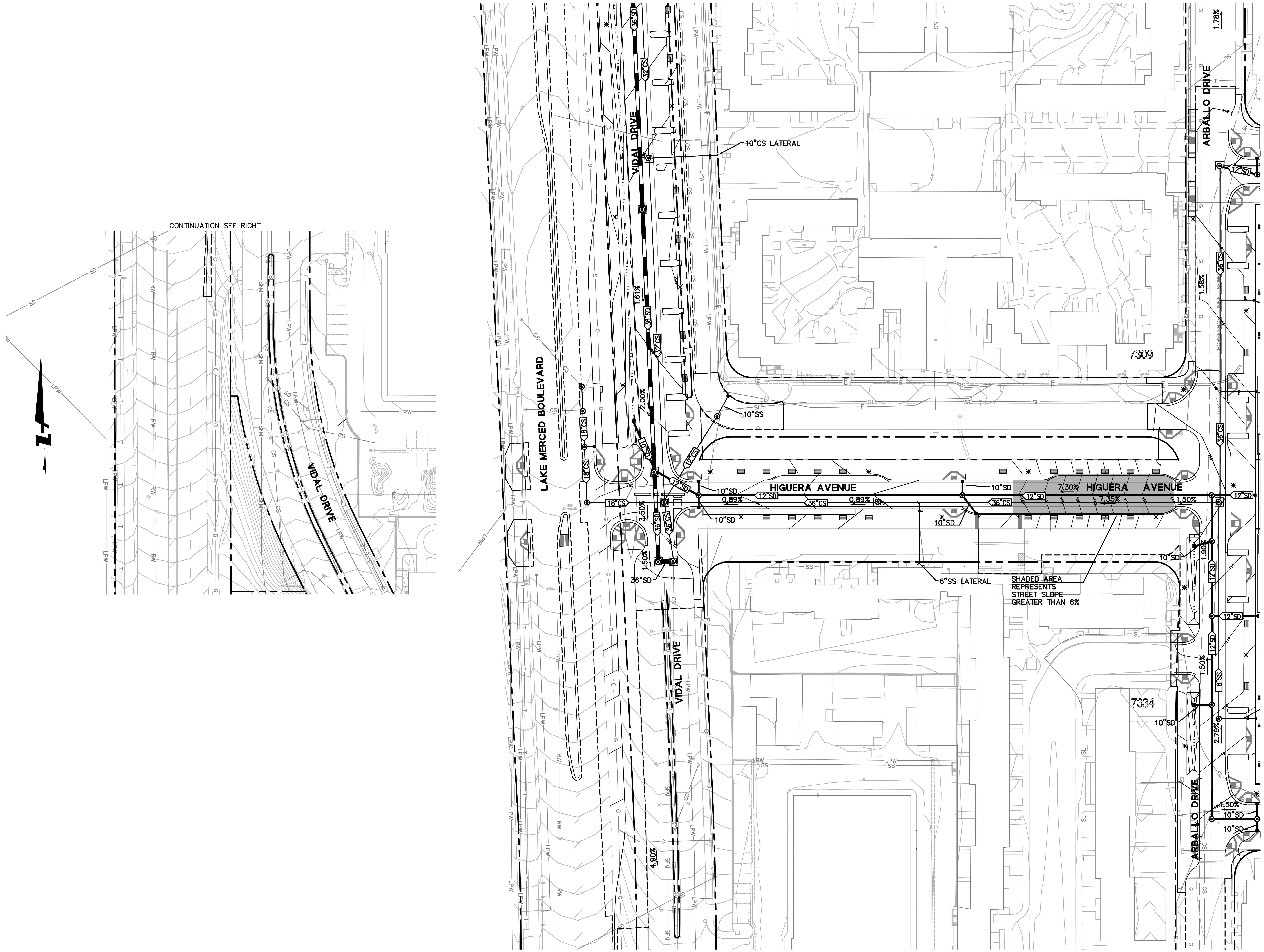

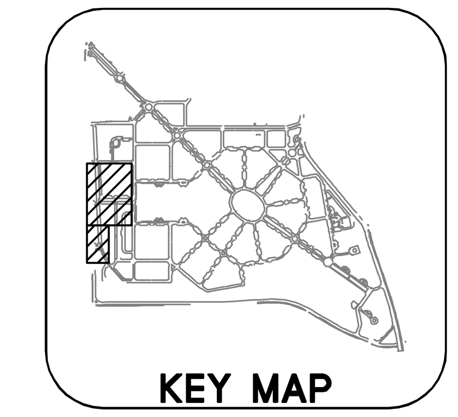

GRAPHIC SCALE

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GRADING PLAN - WEST

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Drawn: NL
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C3.02

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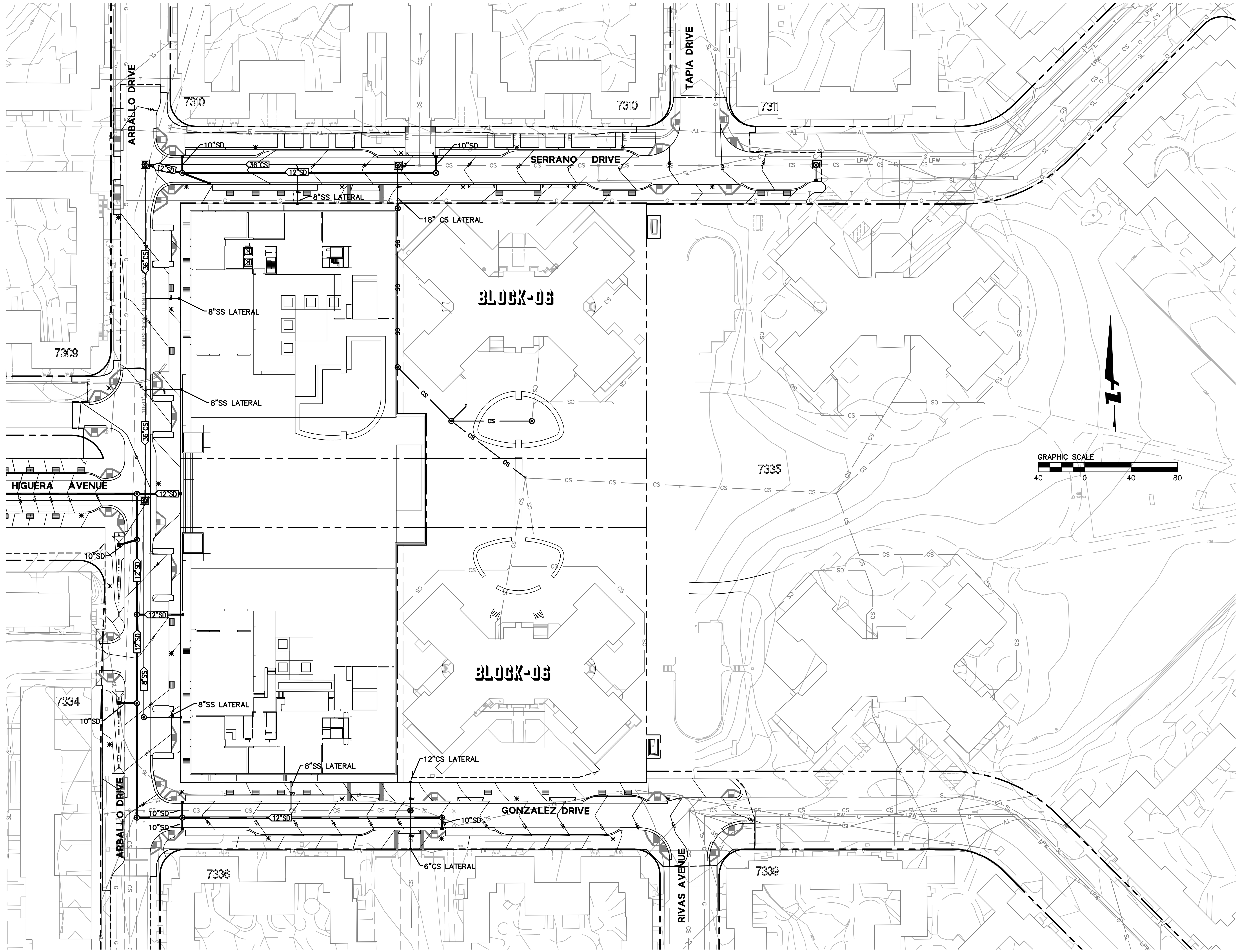

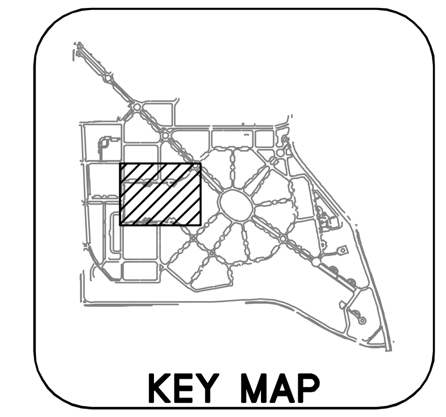

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PHASE 1A STREET IMPROVEMENT PLANS
GRADING PLAN - EAST

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REGISTERED PROFESSIONAL ENGINEER · BRIAN K. SCOTT · No. 61058 · Exp. 12/31/18 · CIVIL · STATE OF CALIFORNIA

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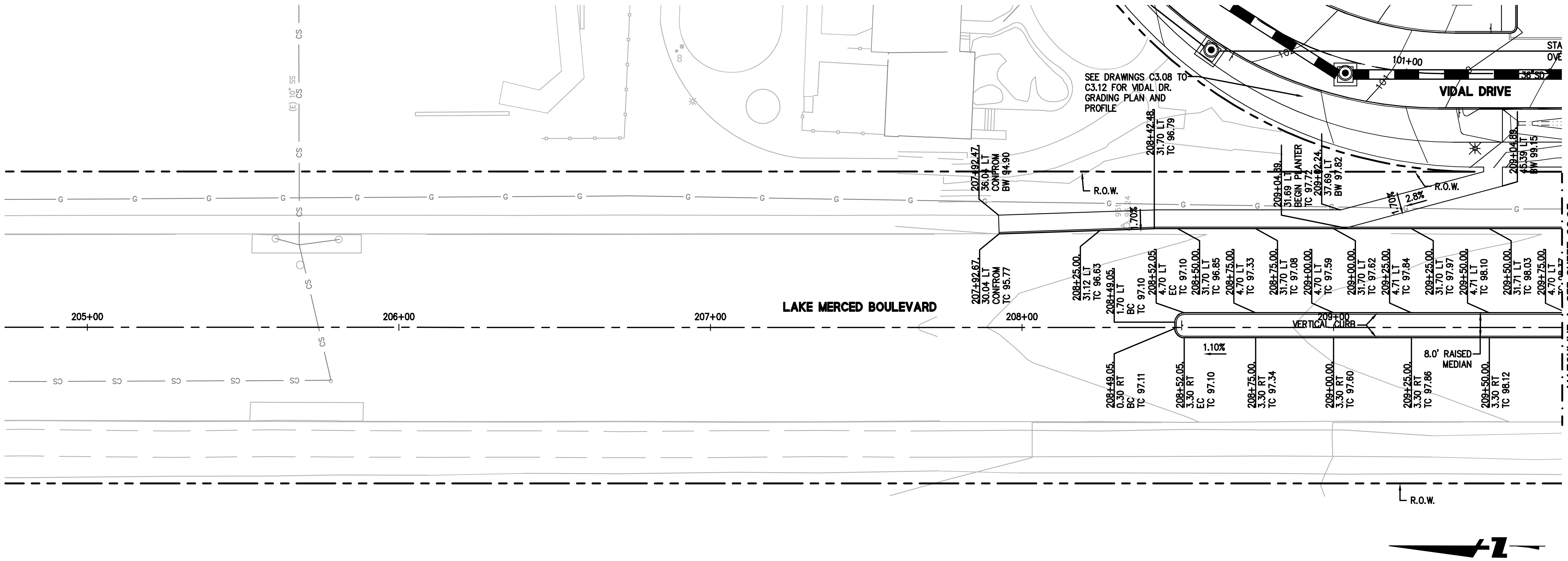

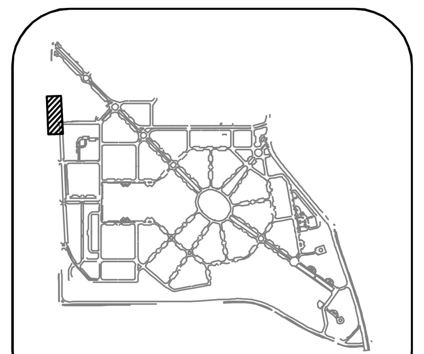

KEY MAP

GRAPHIC SCALE

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PHASE 1A STREET IMPROVEMENT PLANS
GRADING PLAN - LAKE MERCED BOULEVARD

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C3.04

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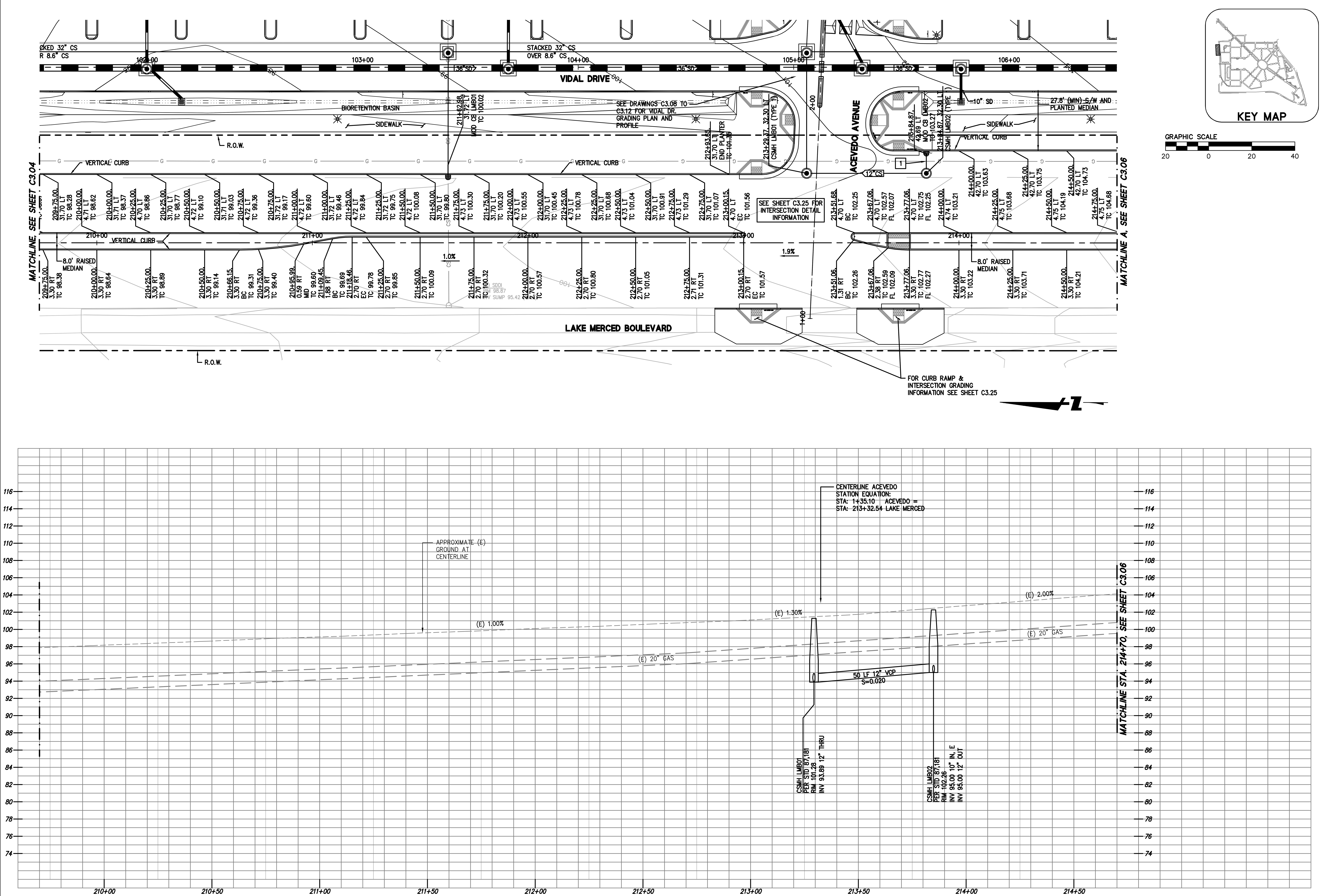
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



KEY MAP

GRAPHIC SCALE 20 0 20 40

255 SHORELINE DR
SUITE 200
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650-482-6300
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PHASE 1A STREET IMPROVEMENT PLANS
GRADING PLAN - LAKE MERCED BOULEVARD

SAN FRANCISCO | SAN FRANCISCO COUNTY | CALIFORNIA

Revisions | No.

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Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.05

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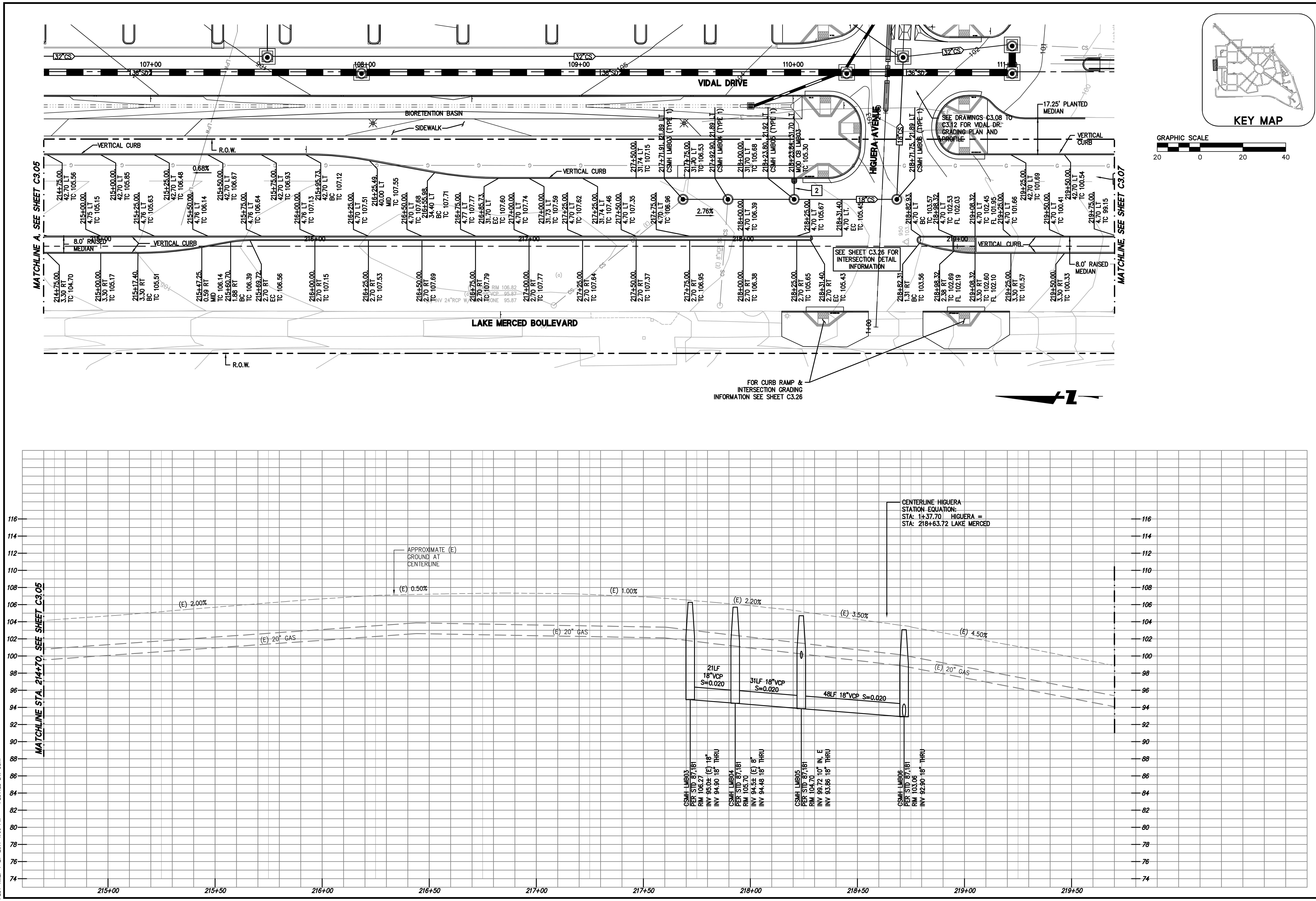

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GRADING PLAN - LAKE MERCED BOULEVARD

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Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C3.06

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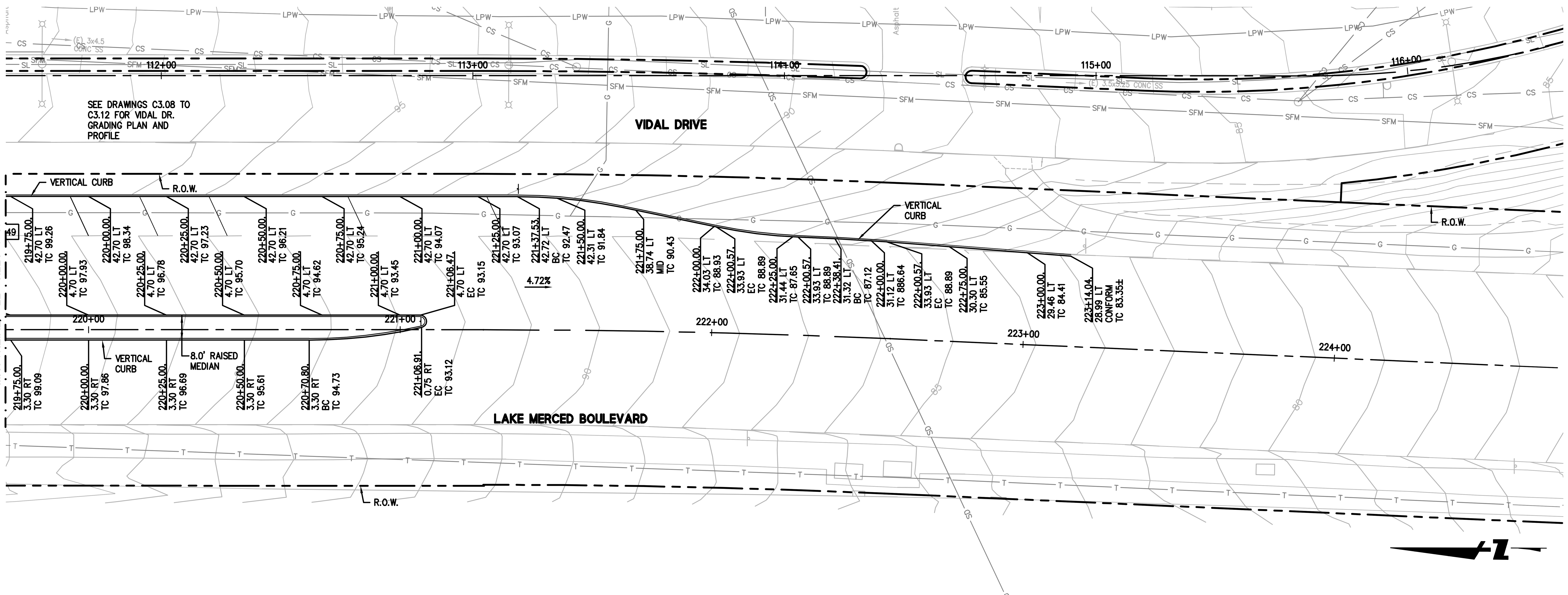

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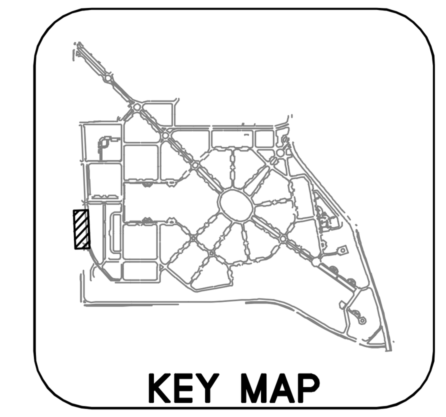

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GRADING PLAN - LAKE MERCED BOULEVARD

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No.	Revisions

Date: 05/01/17
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Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C3.07

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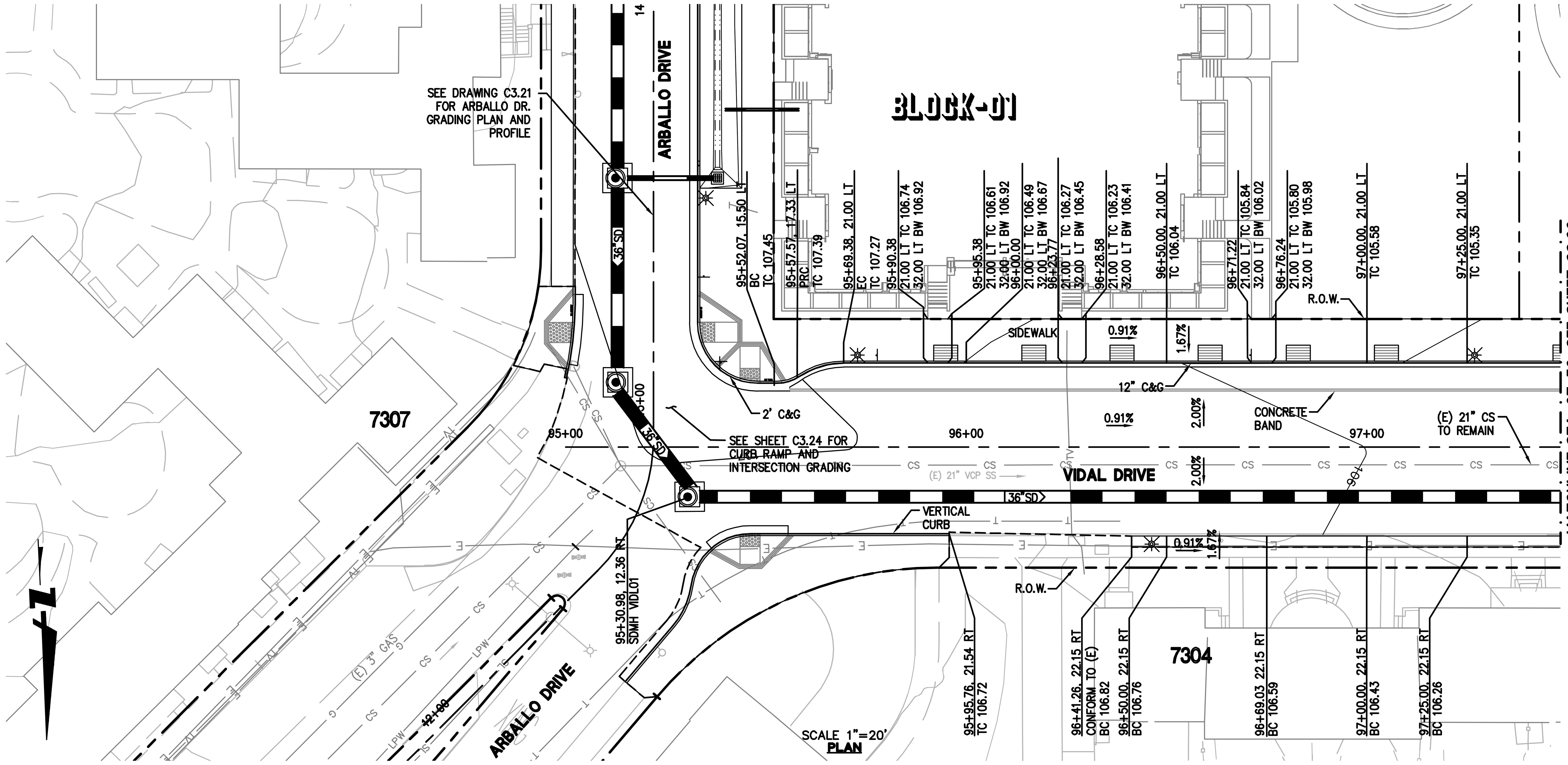

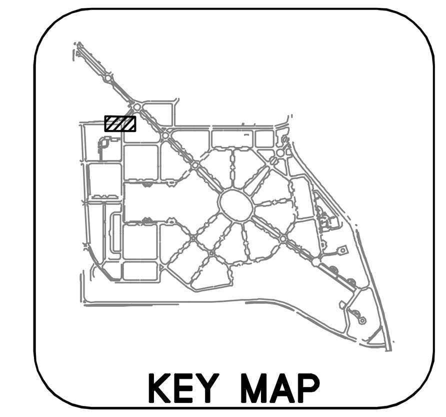

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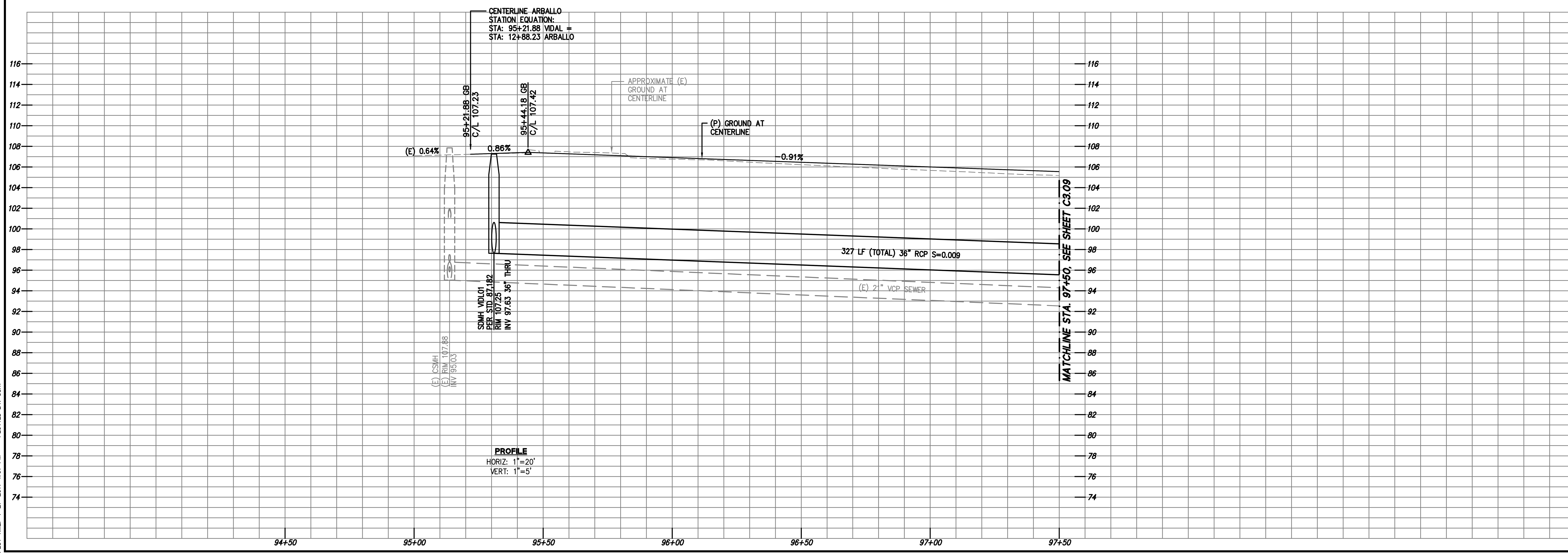

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PHASE 1A STREET IMPROVEMENT PLANS

GRADING PLAN & PROFILE - VIDAL DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C3.08

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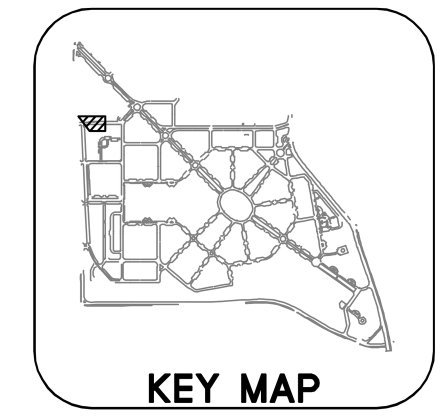

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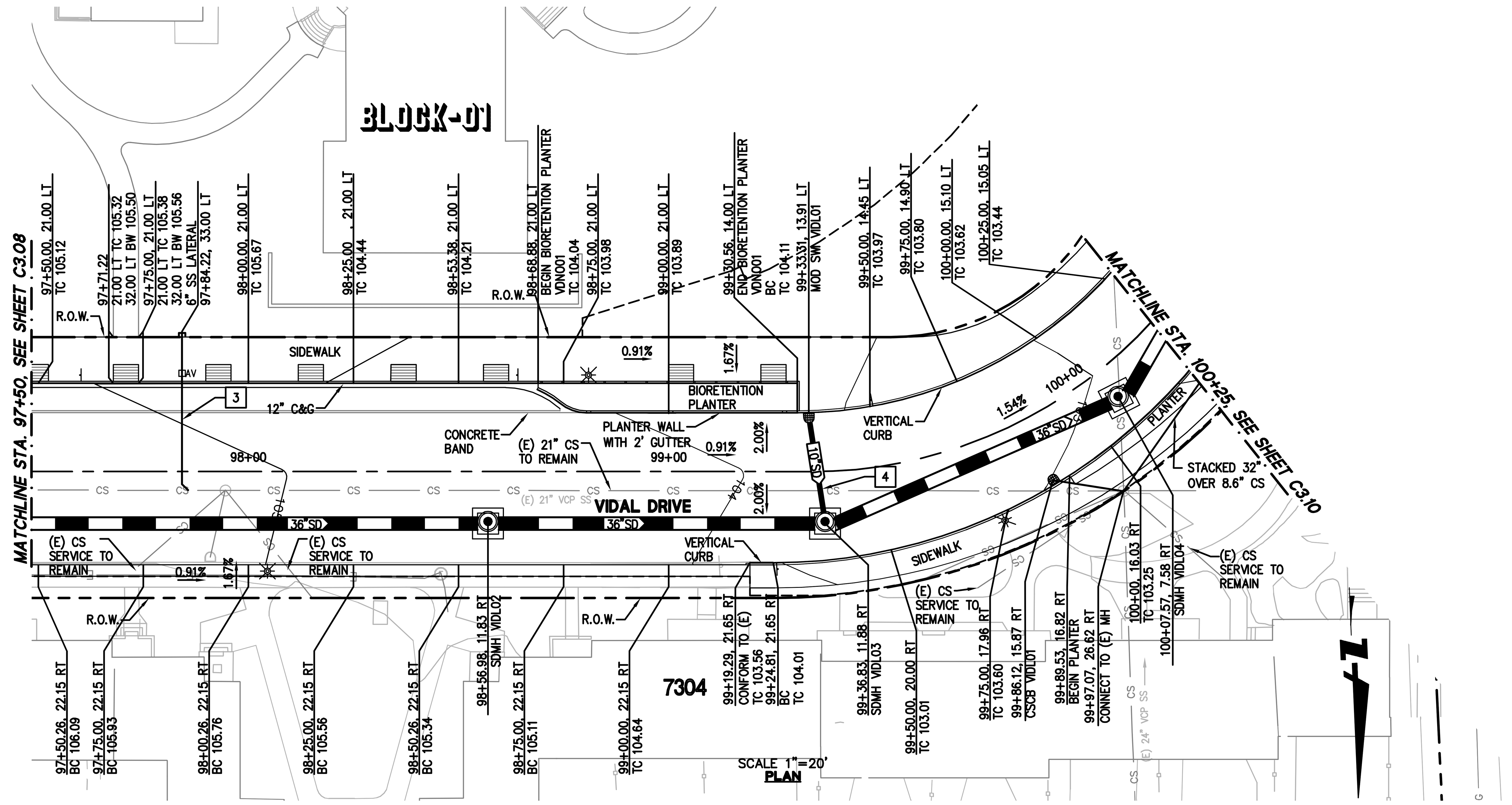

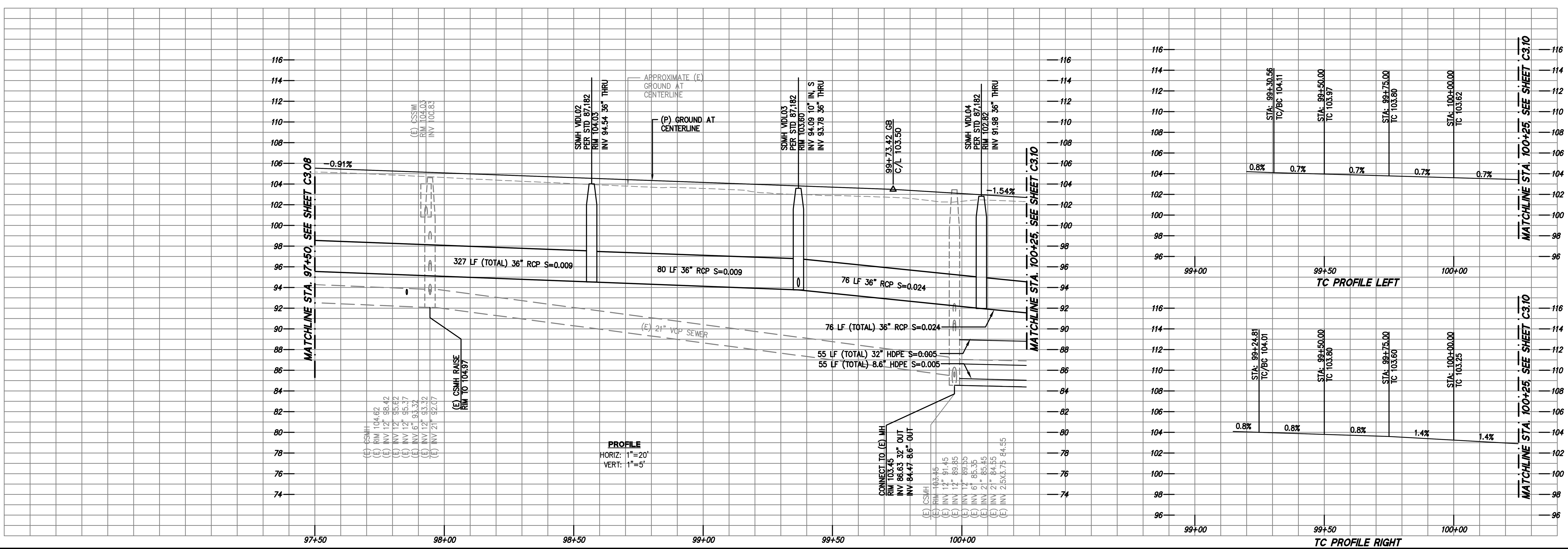

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GRADING PLAN & PROFILE - VIDAL DRIVE

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Date: 05/01/17
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Approved: BS
Job No: 20090086

Drawing Number:
C3.09

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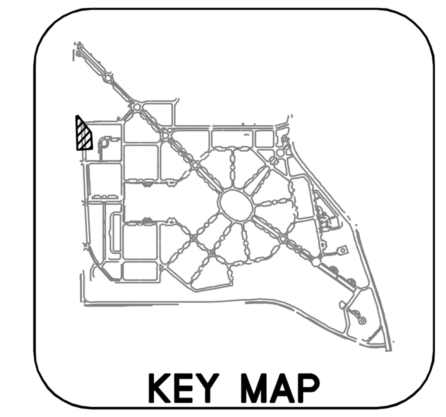

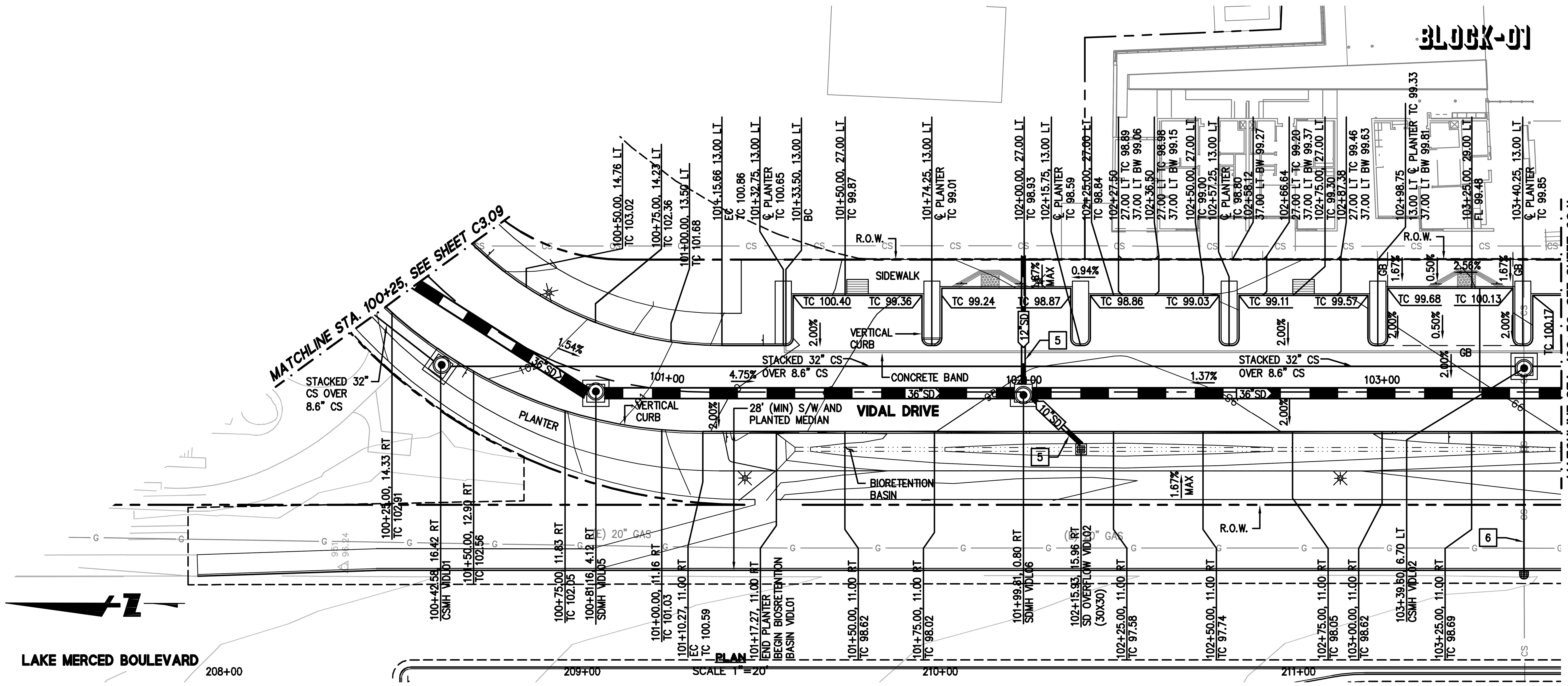

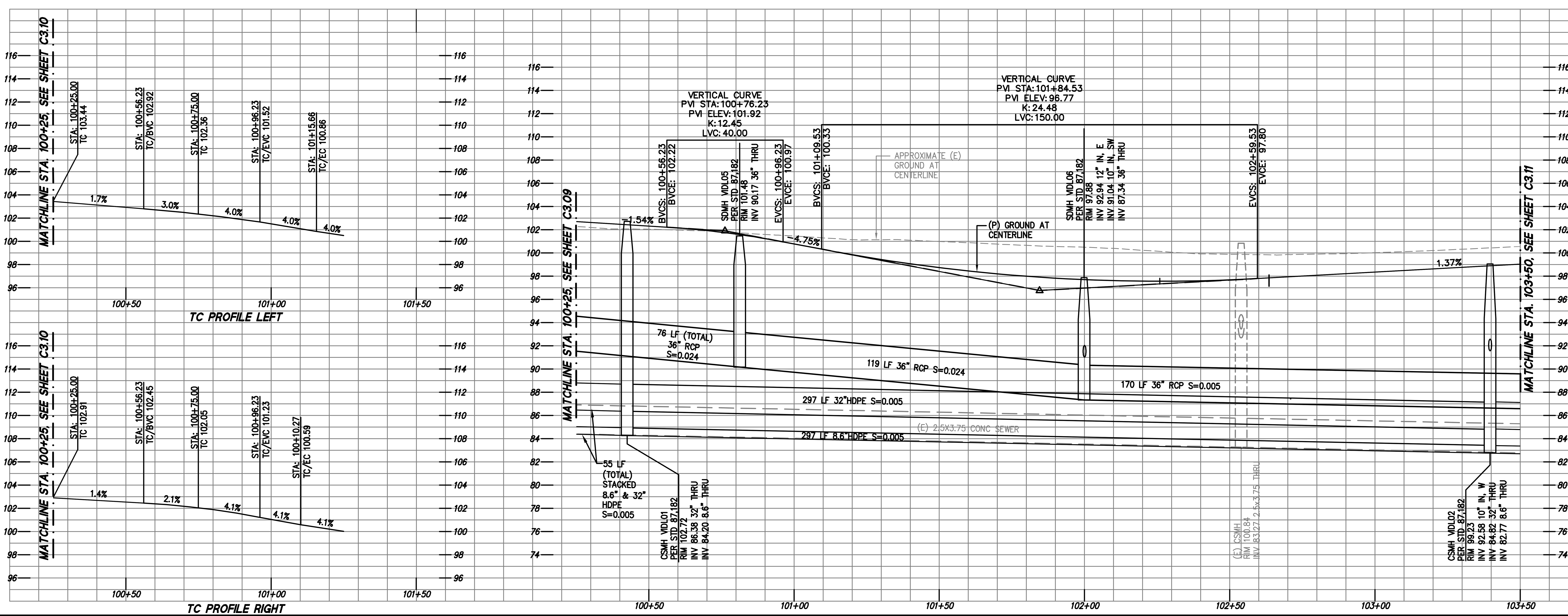

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GRADING PLAN & PROFILE - VIDAL DRIVE

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Approved: BS
Job No: 20090086

Drawing Number:
C3.10

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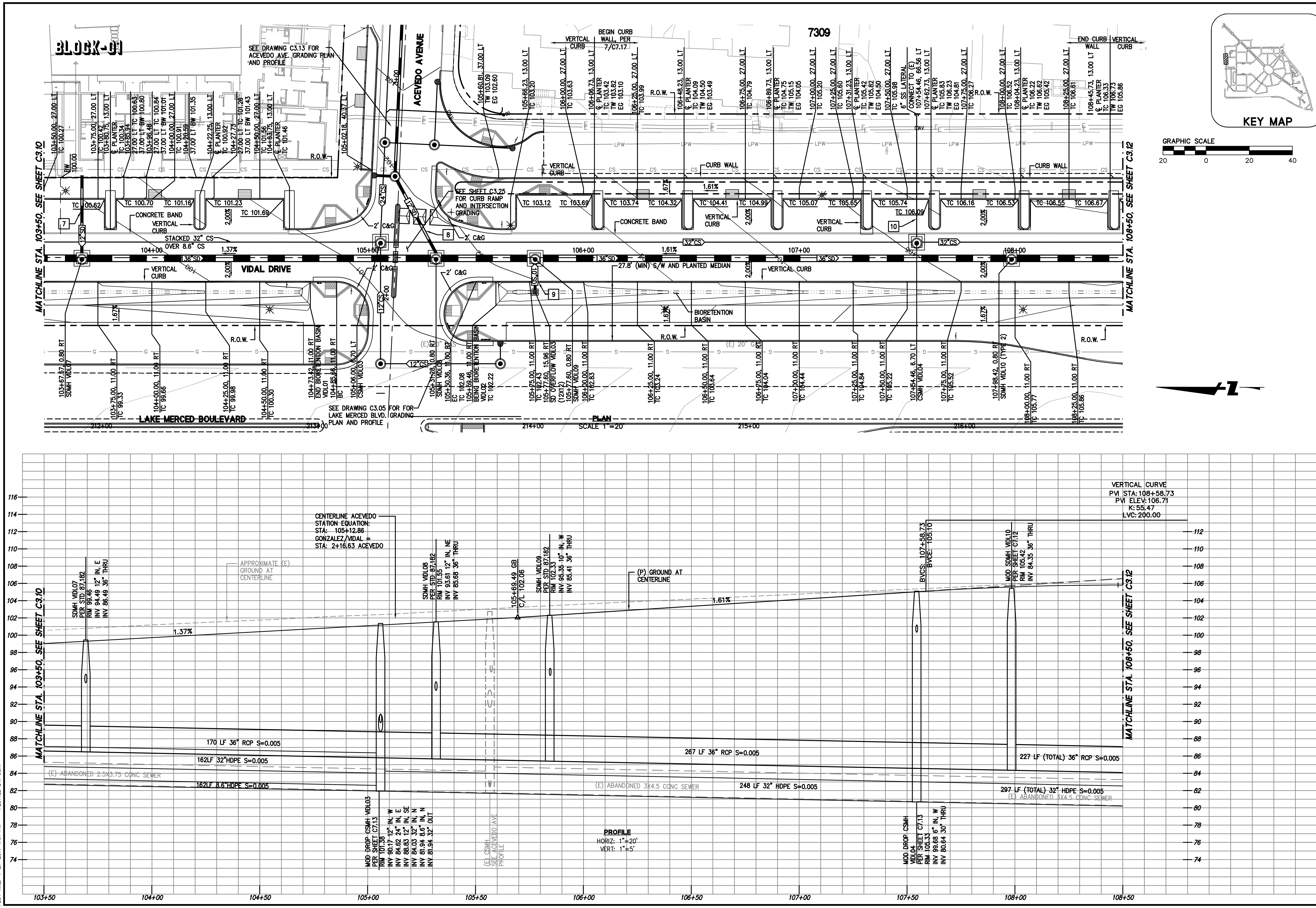

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GRADING PLAN & PROFILE - VIDAL DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.11

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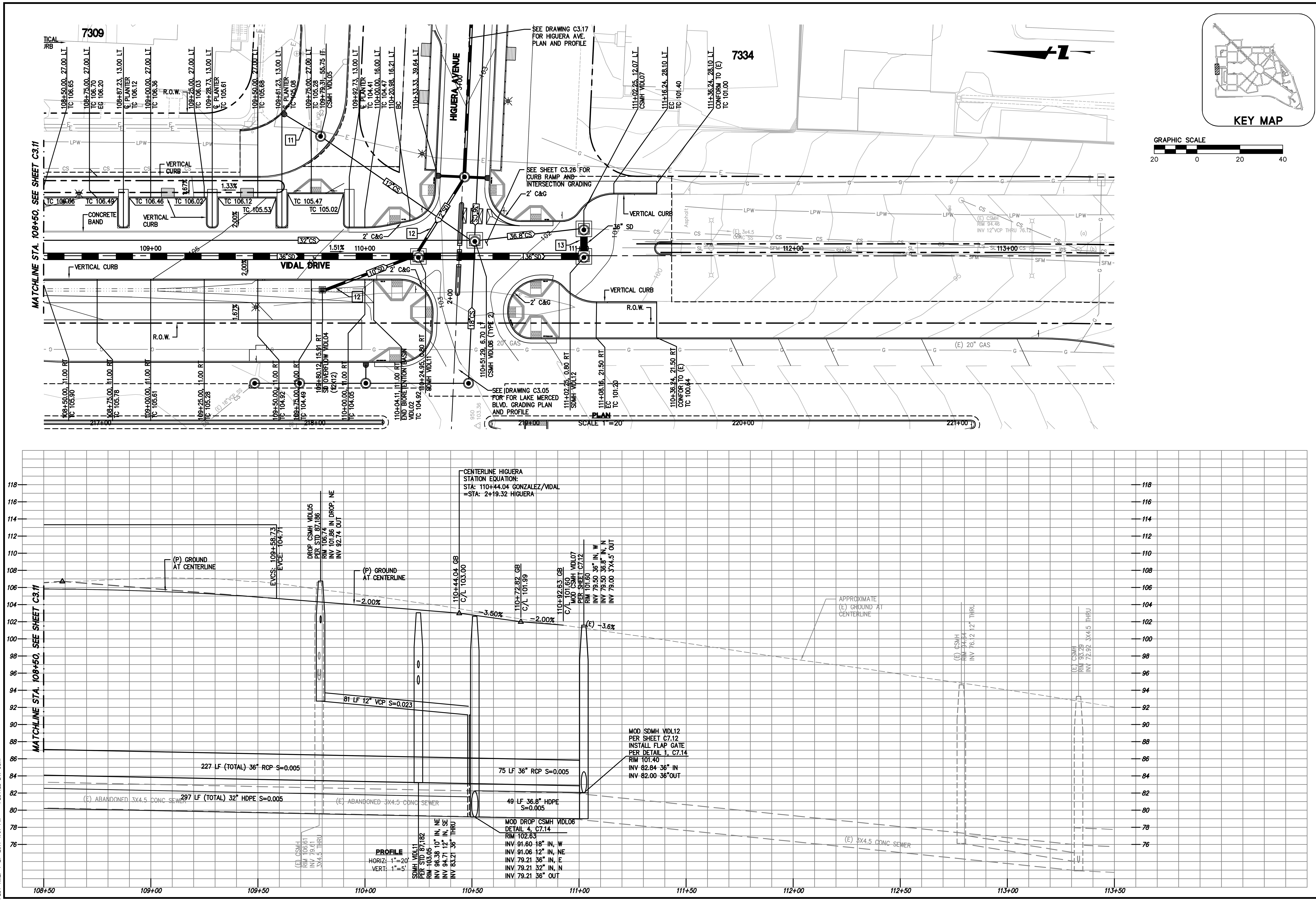

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GRADING PLAN & PROFILE - VIDAL DRIVE

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Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C3.12

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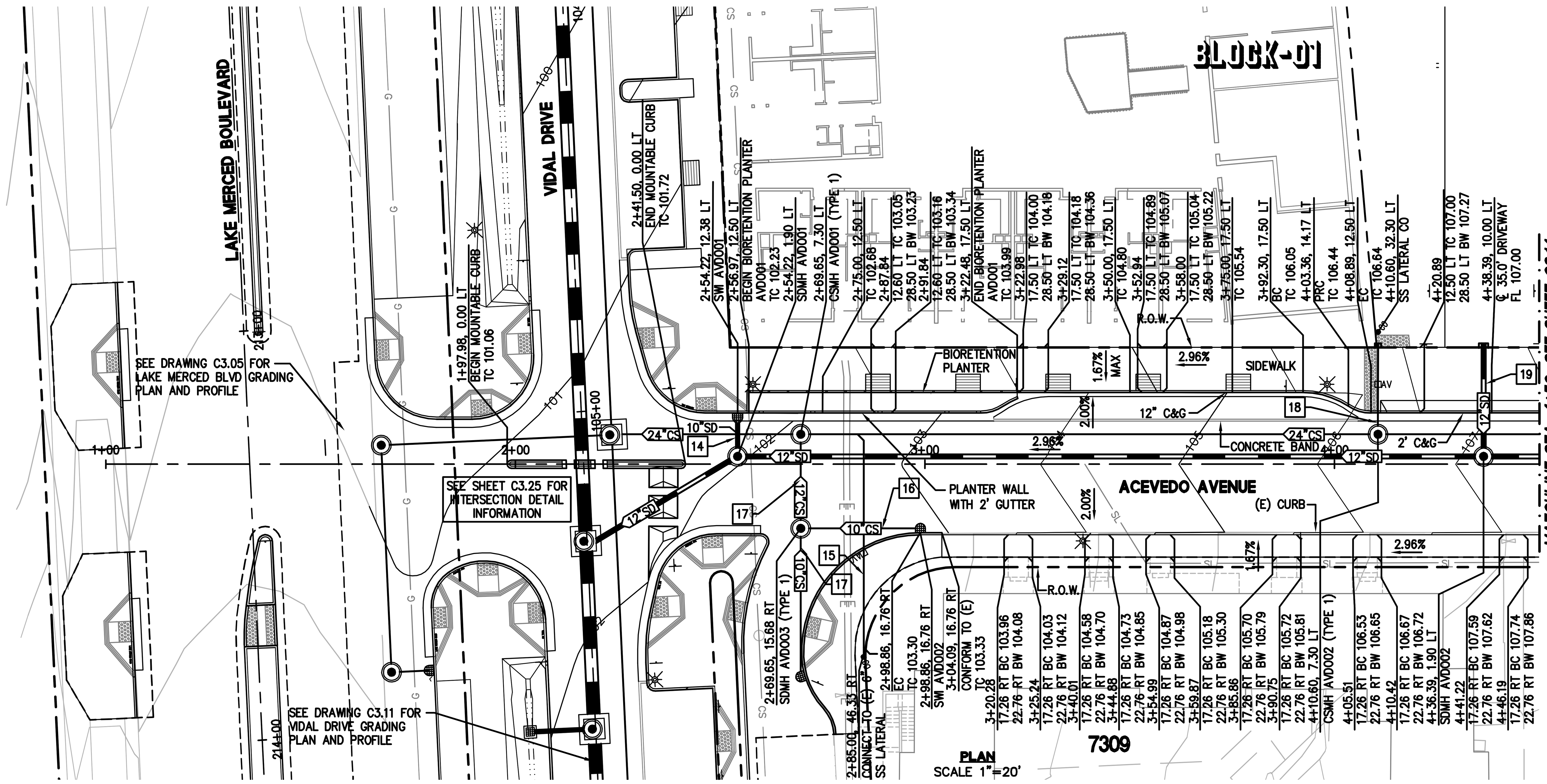

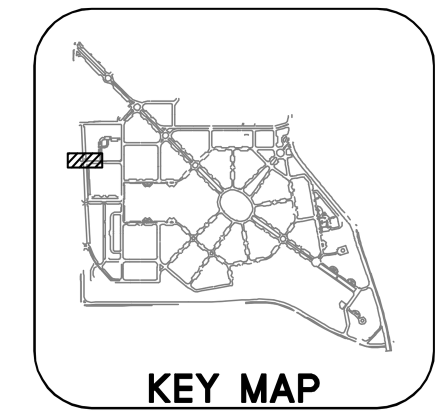

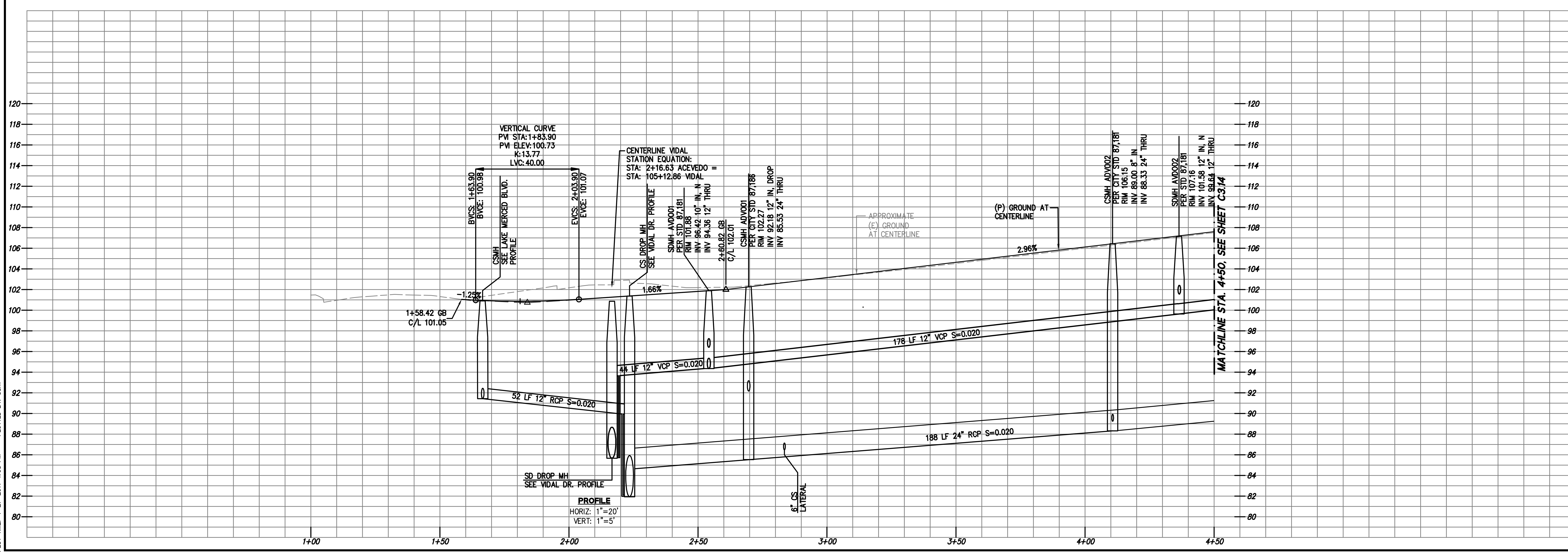

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PHASE 1A STREET IMPROVEMENT PLANS

GRADING PLAN & PROFILE - ACEVEDO AVENUE

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.13

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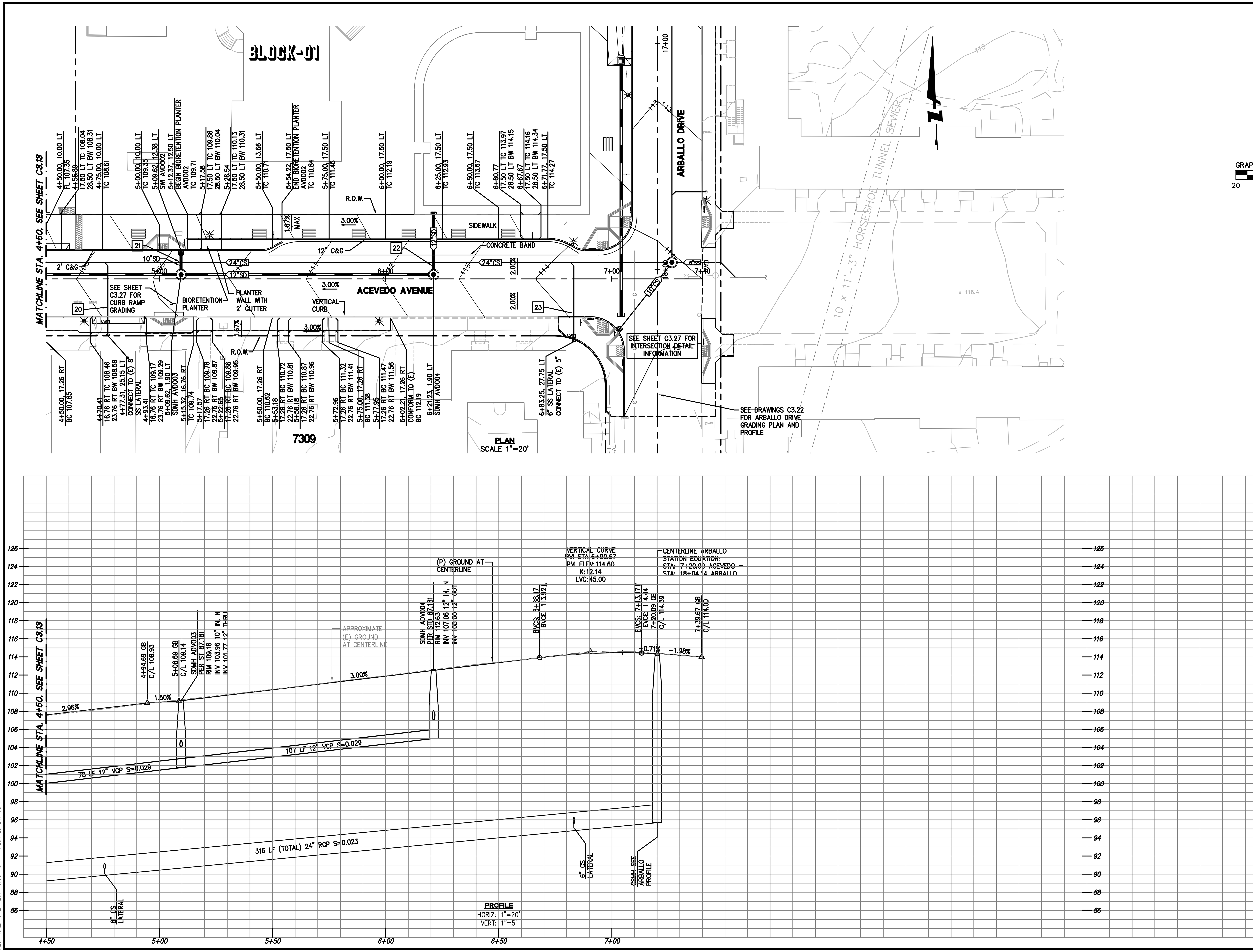

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GRADING PLAN & PROFILE - ACEVEDO AVENUE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
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Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.14

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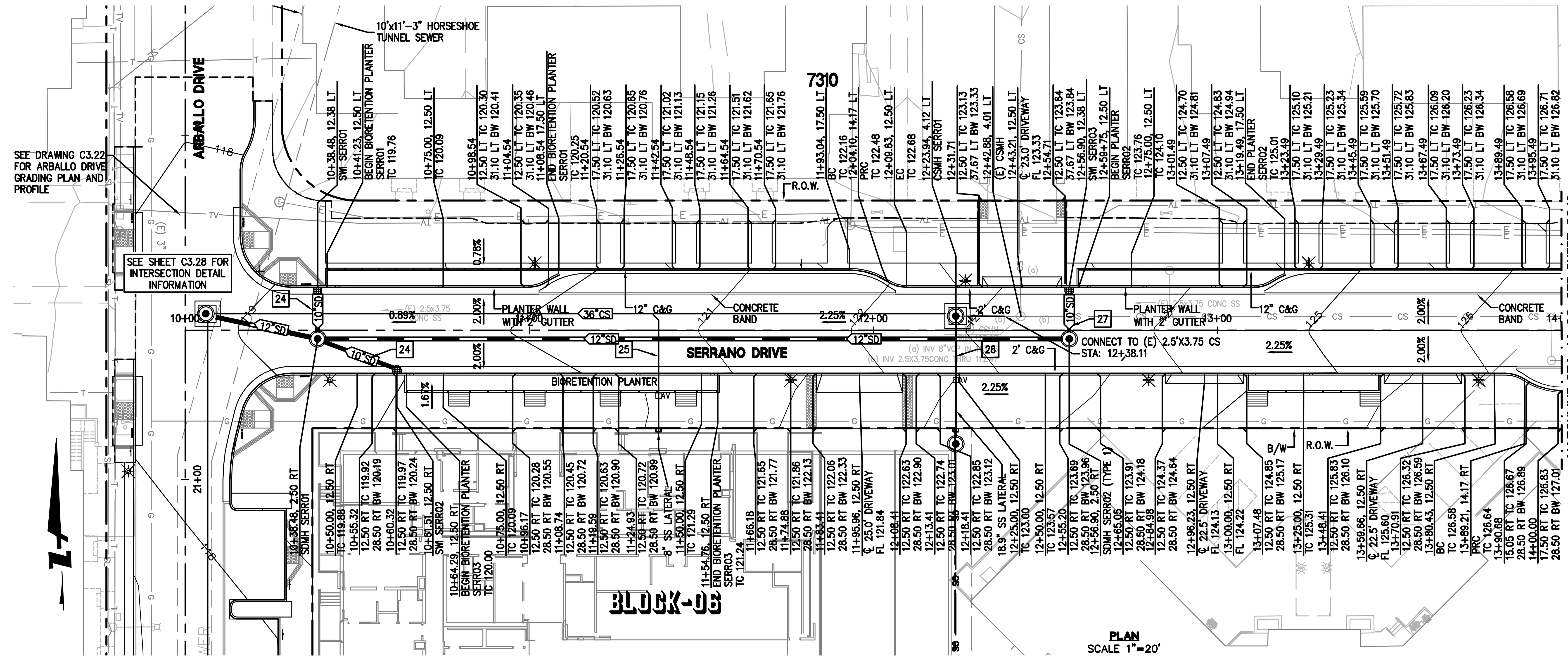

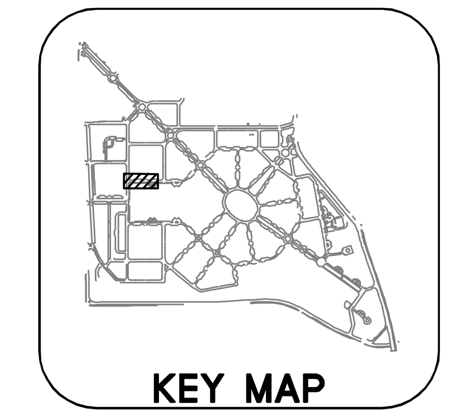

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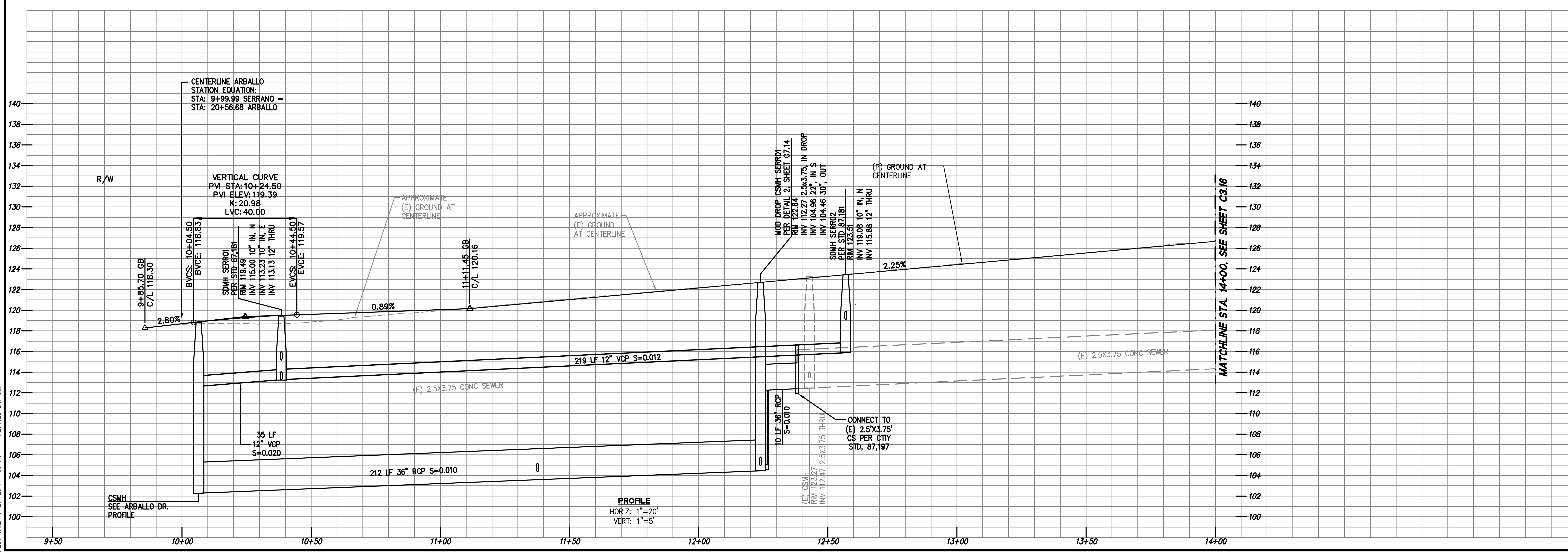

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GRADING PLAN & PROFILE – SERRANO DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions
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Scale: AS SHOWN	
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Drawn: NL	
Approved: BS	
Job No: 20090086	

Drawing Number:
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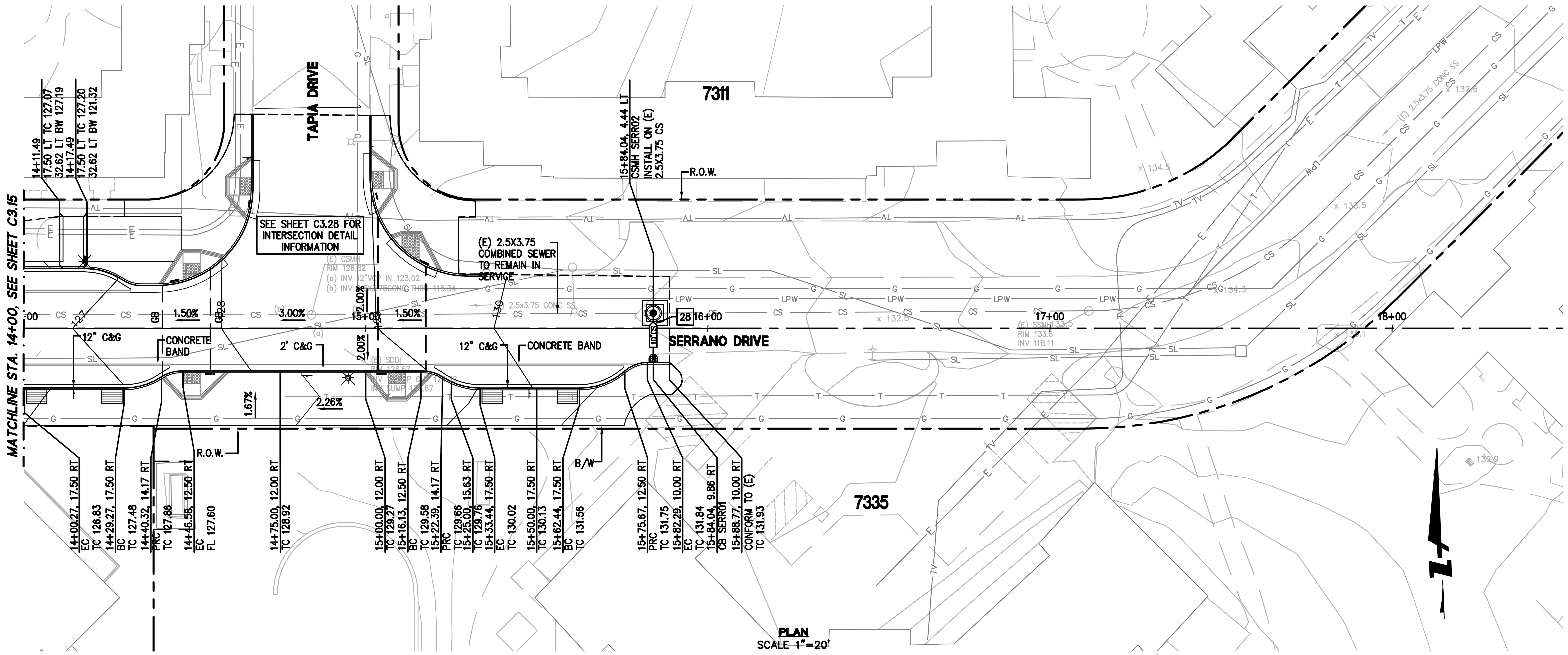

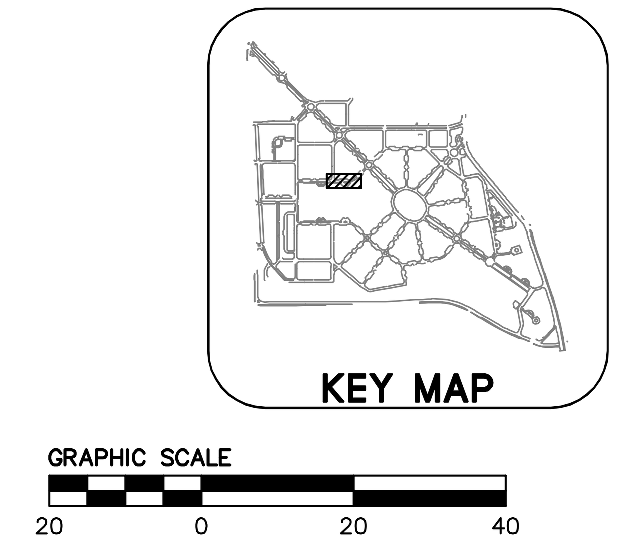

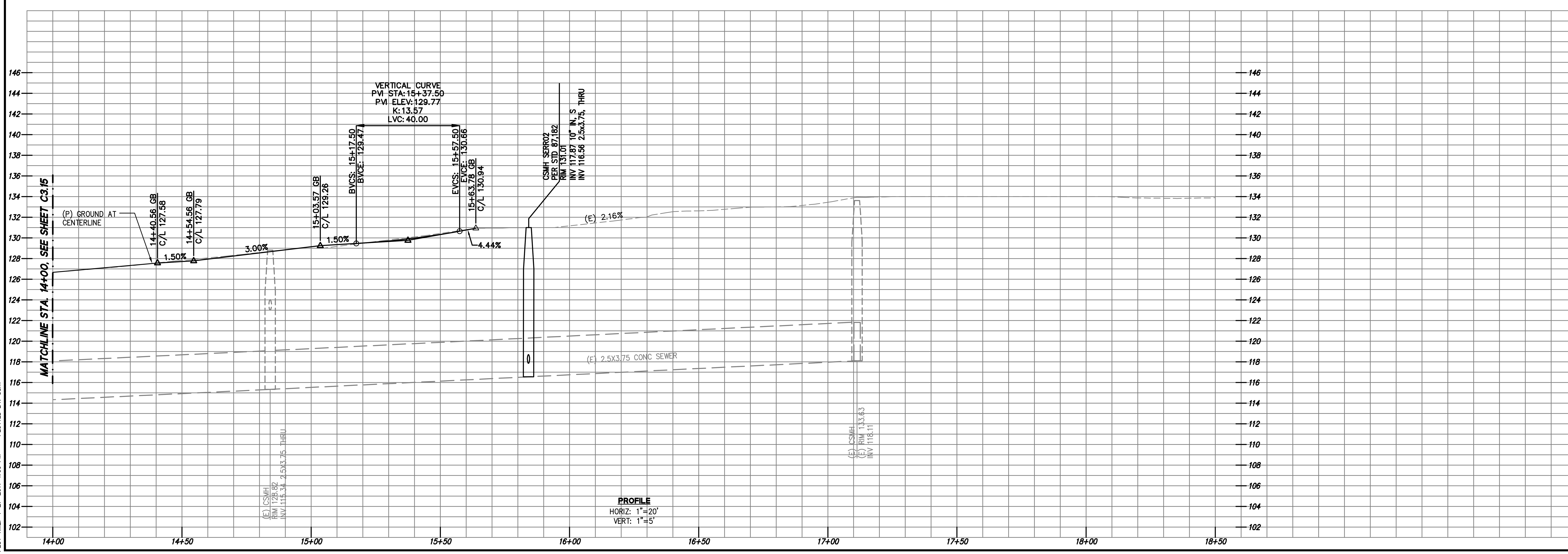

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GRADING PLAN & PROFILE – SERRANO DRIVE

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Job No:	20090086

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Drawing Number: C3.16

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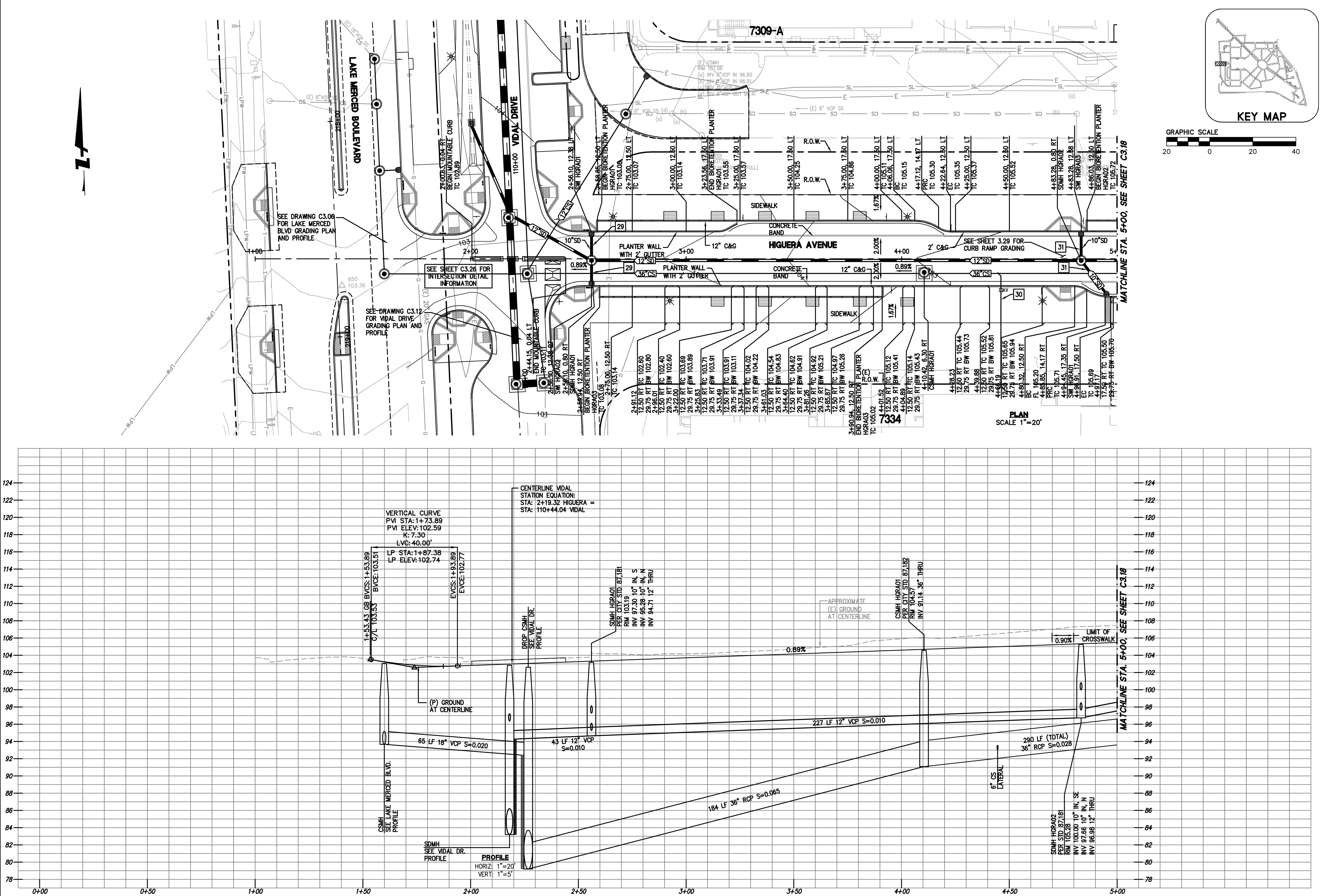

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PHASE 1A STREET IMPROVEMENT PLANS
GRADING PLAN & PROFILE - HIGUERA AVENUE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
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Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.17

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C306-GD-F.dwg (C3.17)
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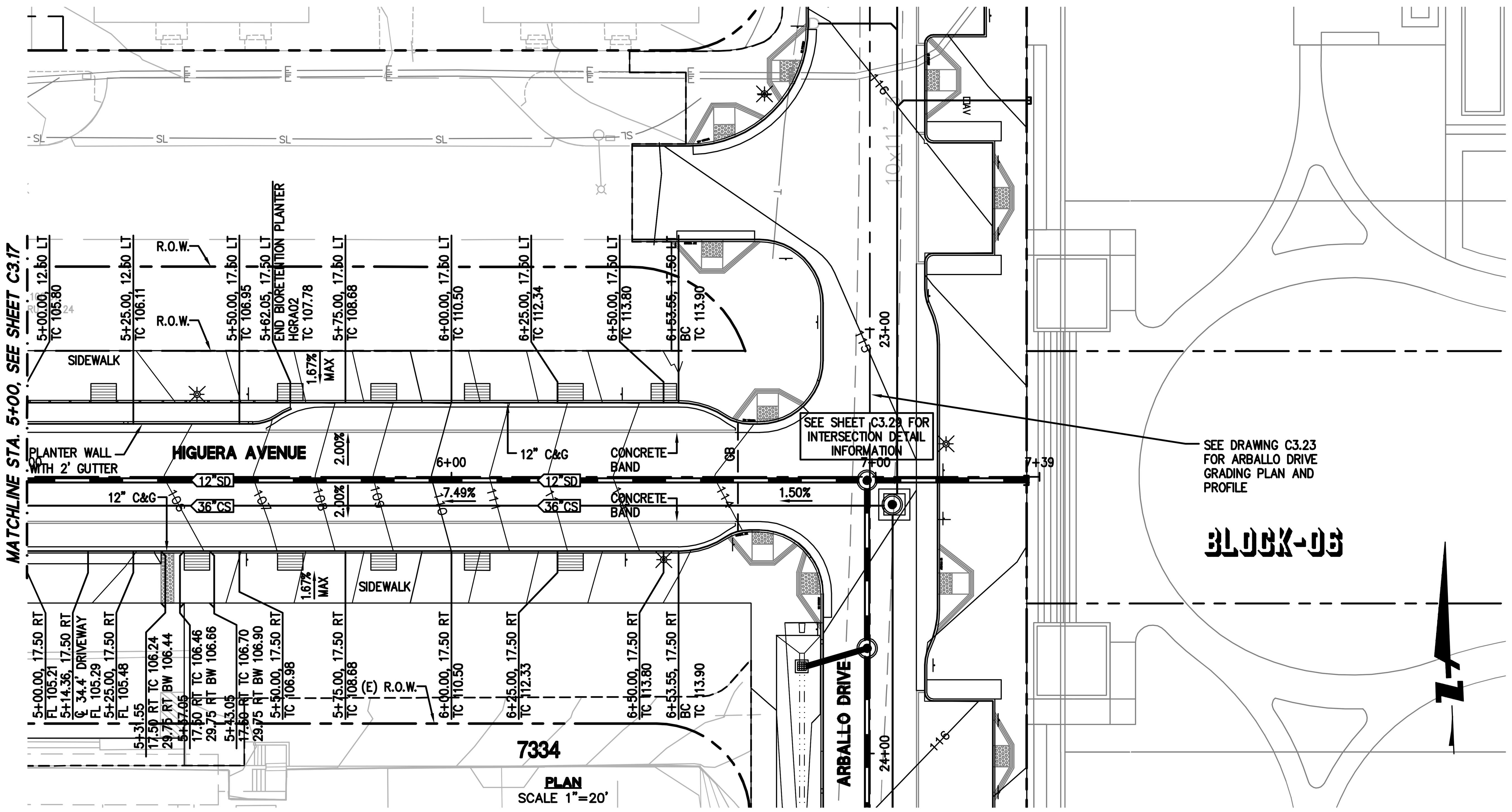

PLAN
SCALE 1"=20'

KEY MAP

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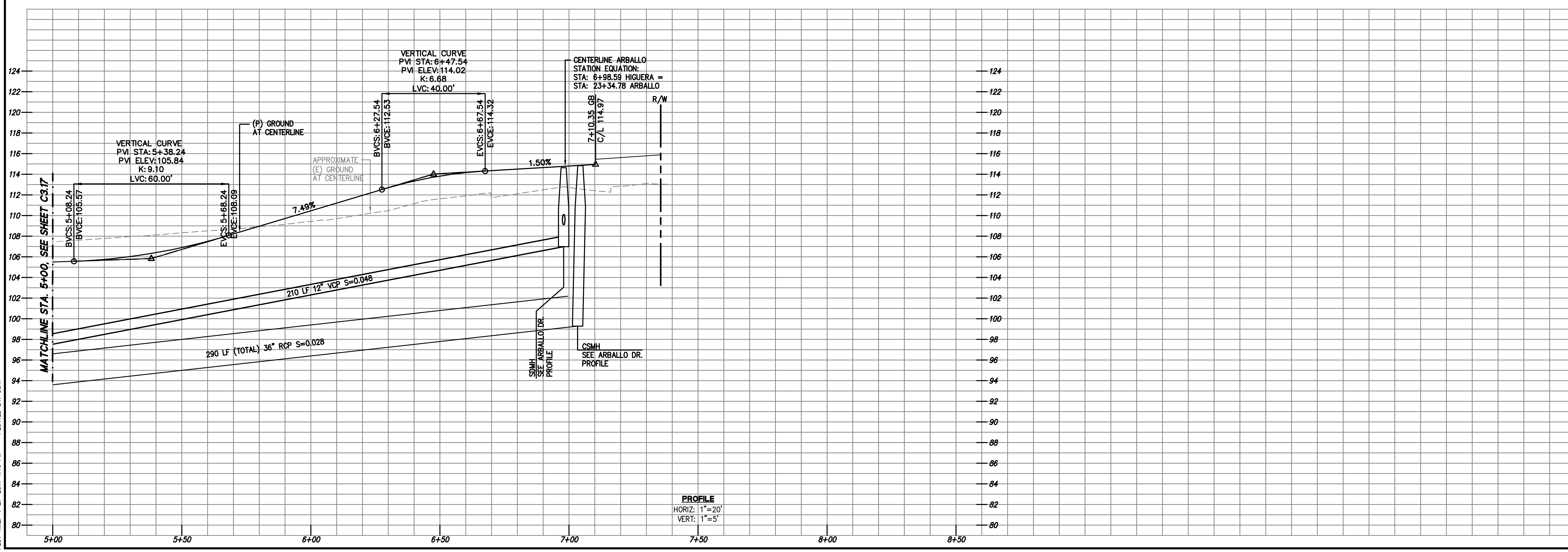

PROFILE
HORIZ: 1"=20'
VERT: 1"=5'

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GRADING PLAN & PROFILE - HIGUERA AVENUE
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.18

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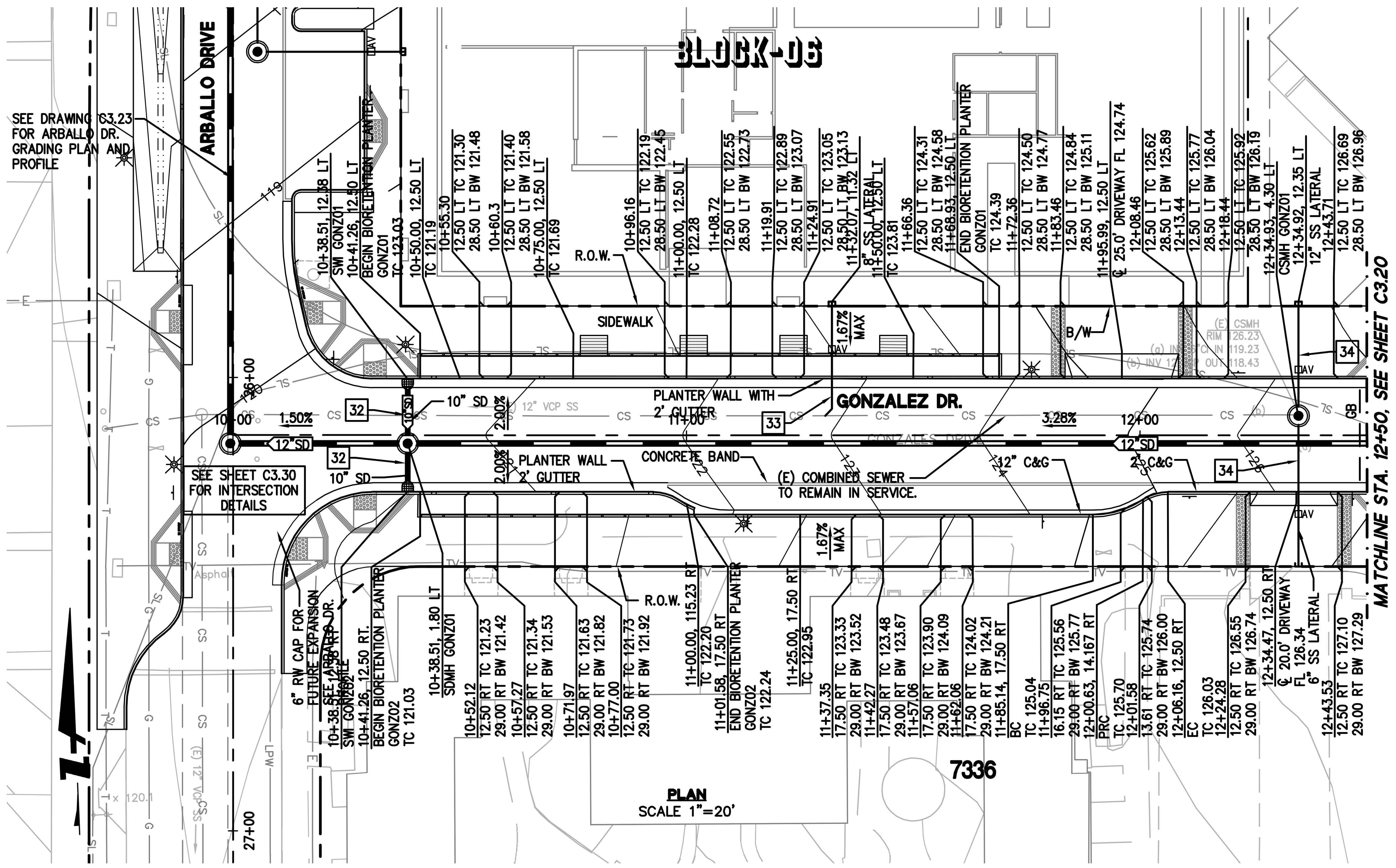

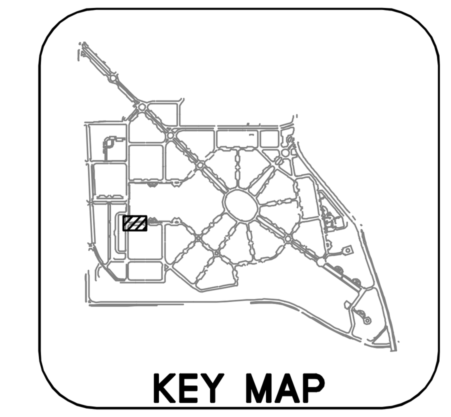

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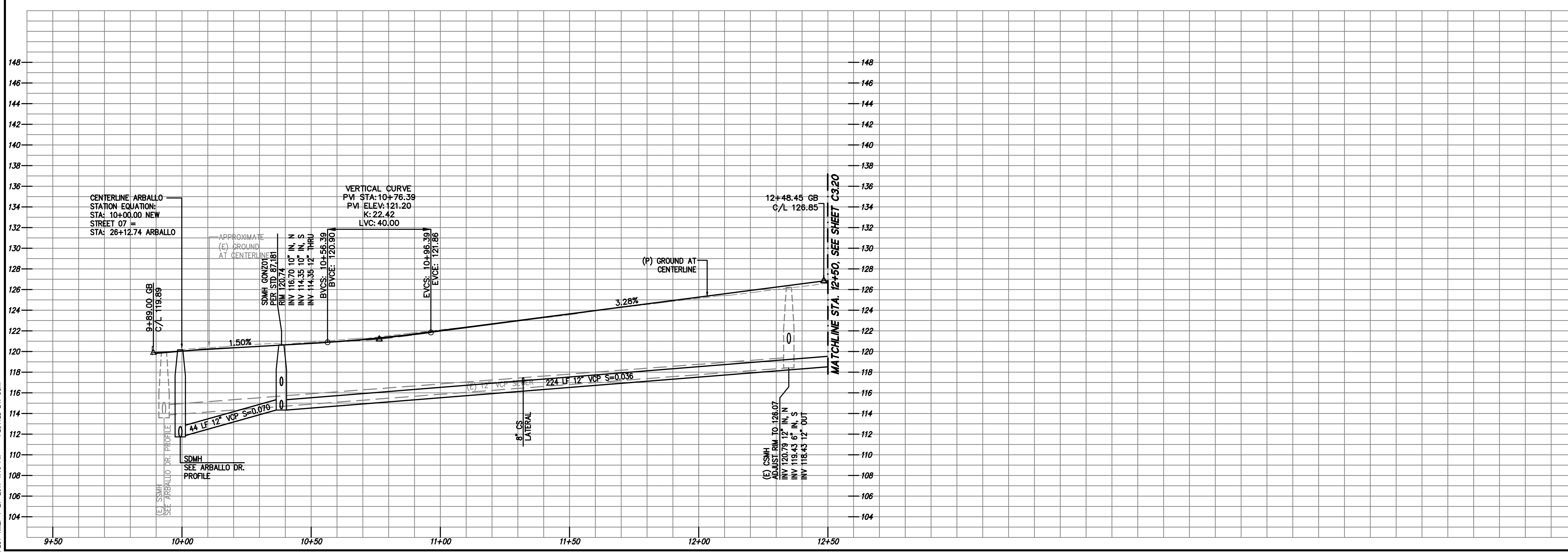

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GRADING PLAN & PROFILE - GONZALEZ DRIVE

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Date: 05/01/17
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Job No: 20090086

Drawing Number:
C3.19

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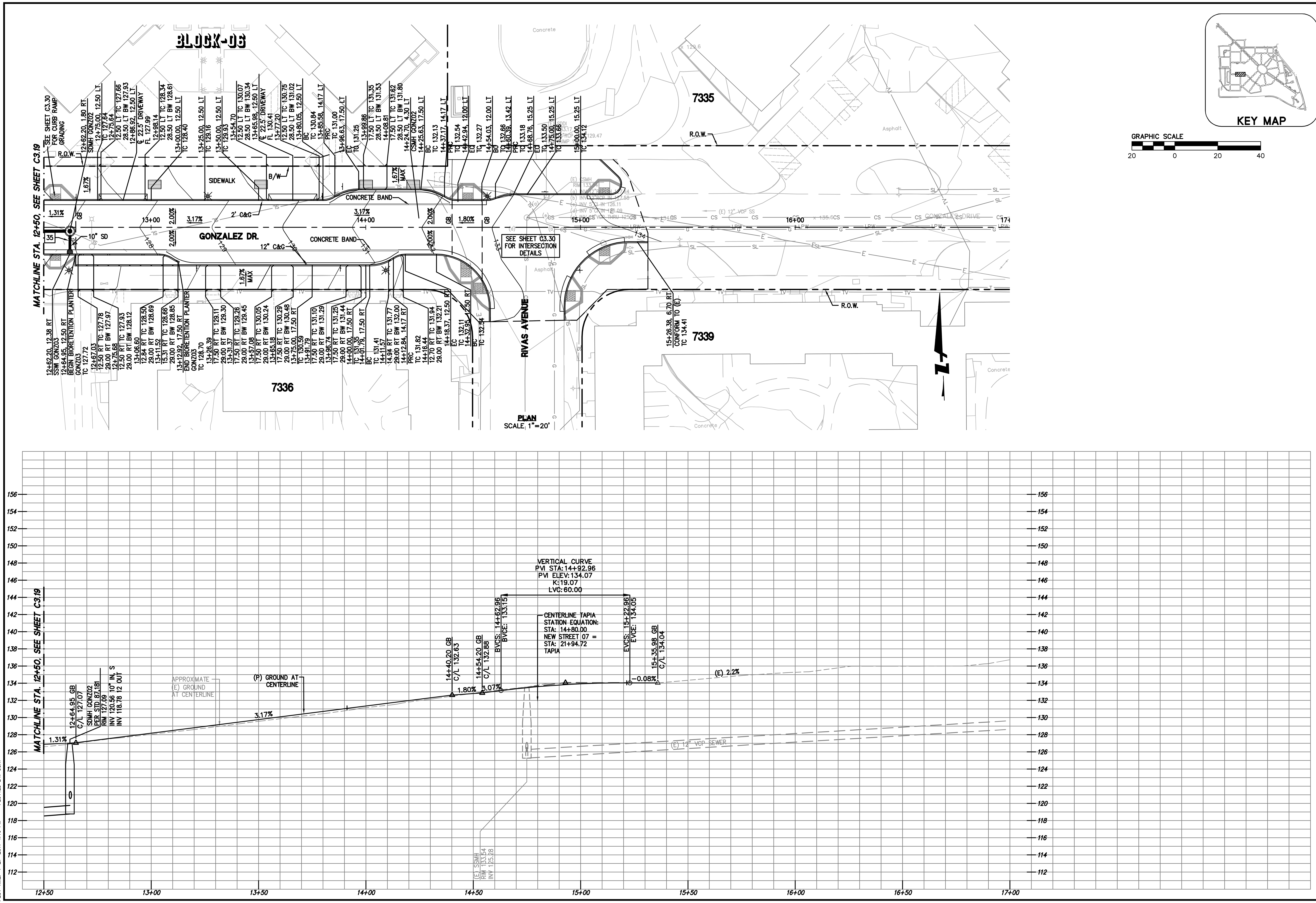

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Drawing Number:

C3.20

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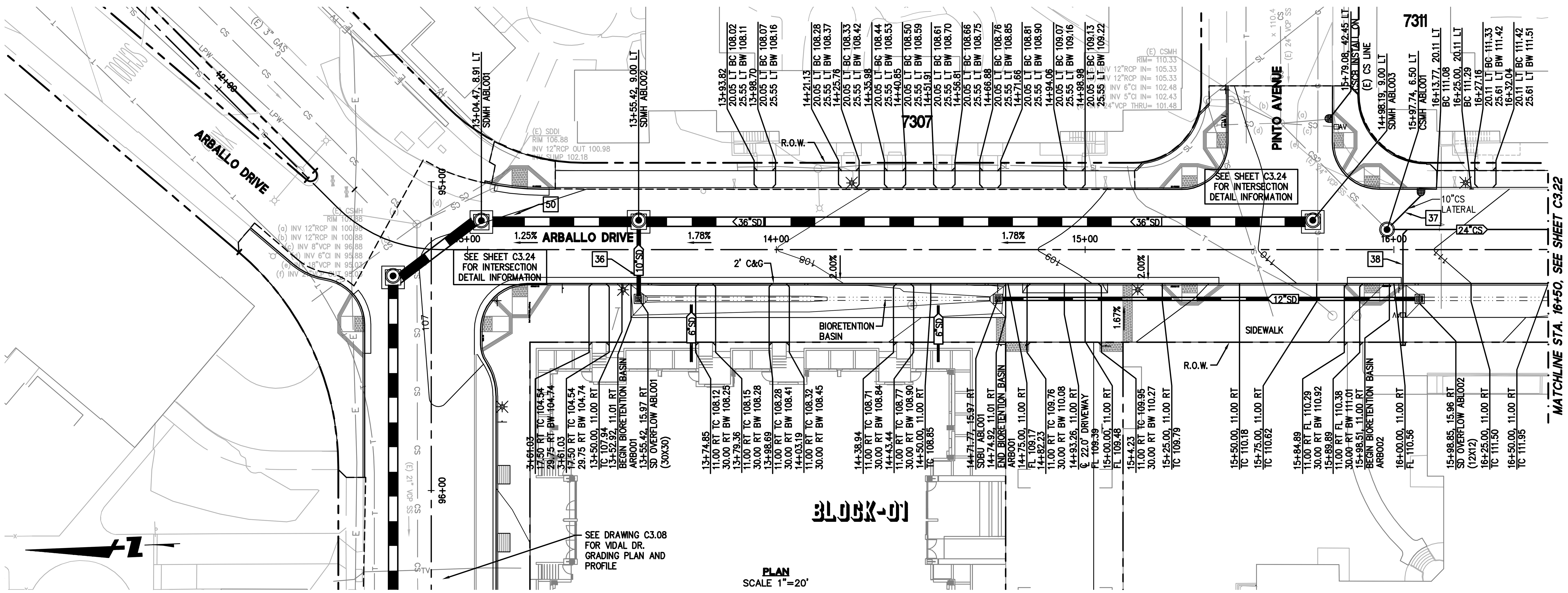

KEY MAP

GRAPHIC SCALE

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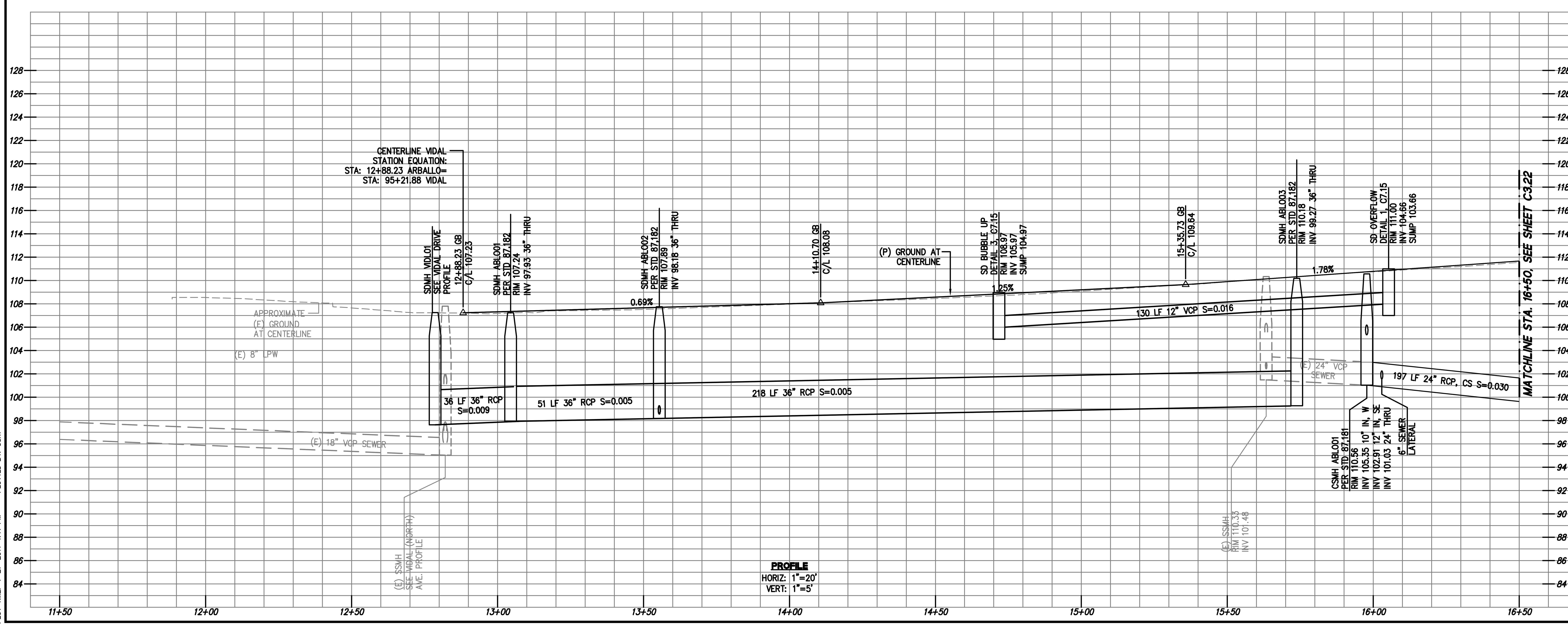

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GRADING PLAN & PROFILE - ARBALLO DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C3.21

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C308-GD-1.dwg (C3.21)
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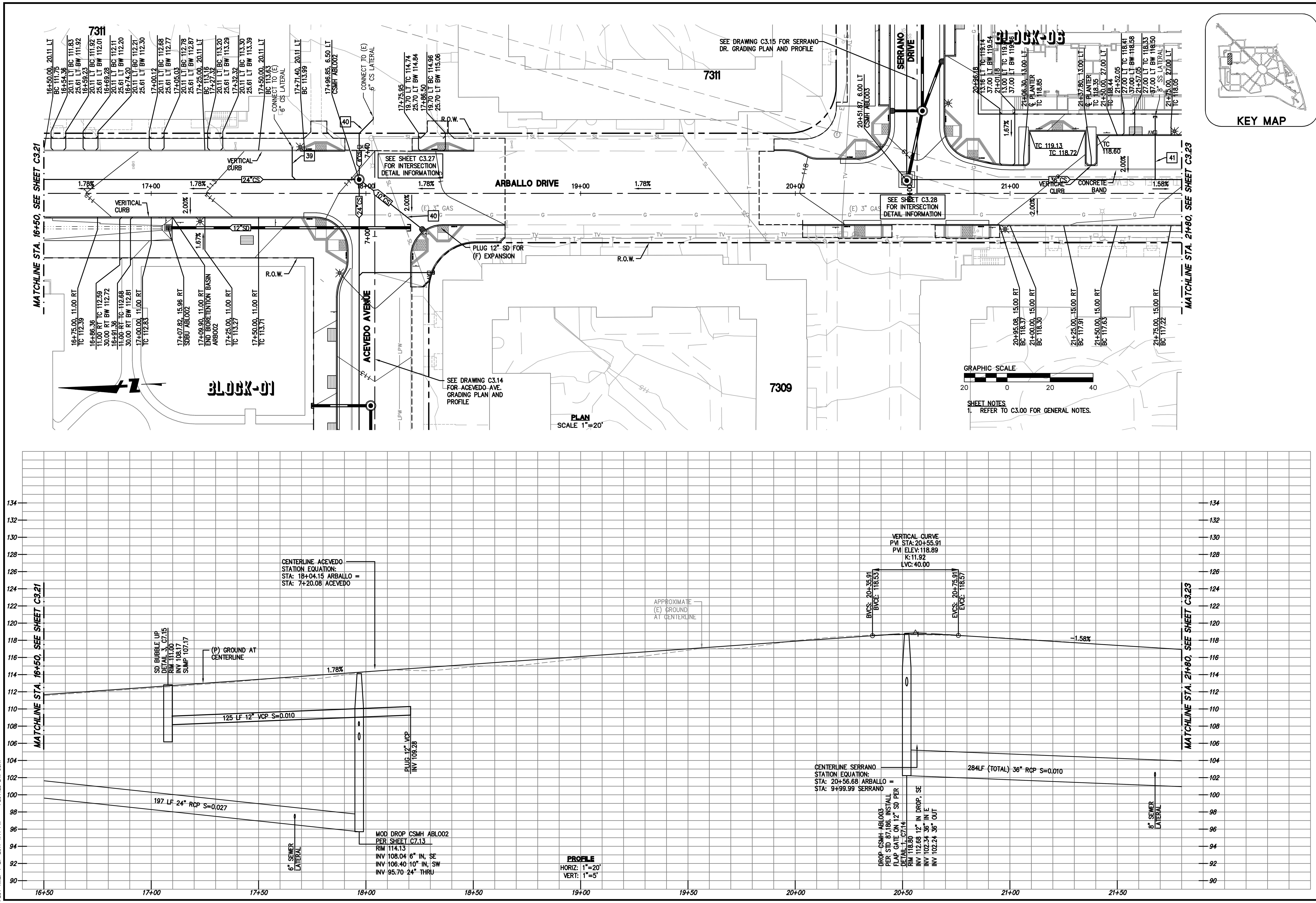
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



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No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.22

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C308-GD-I.dwg (C3.22)
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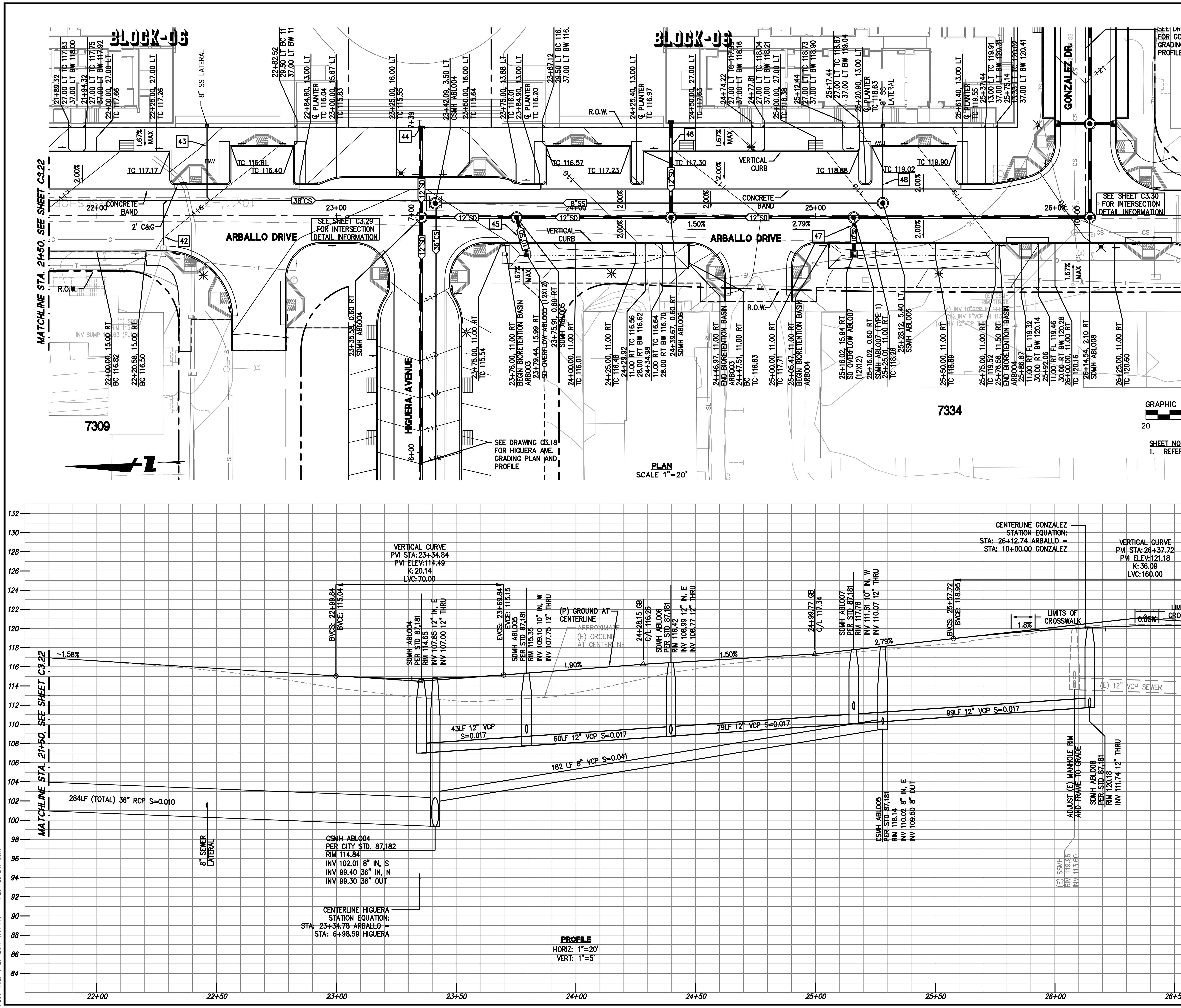

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Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.23

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C308-GD-1.dwg (C3.23)
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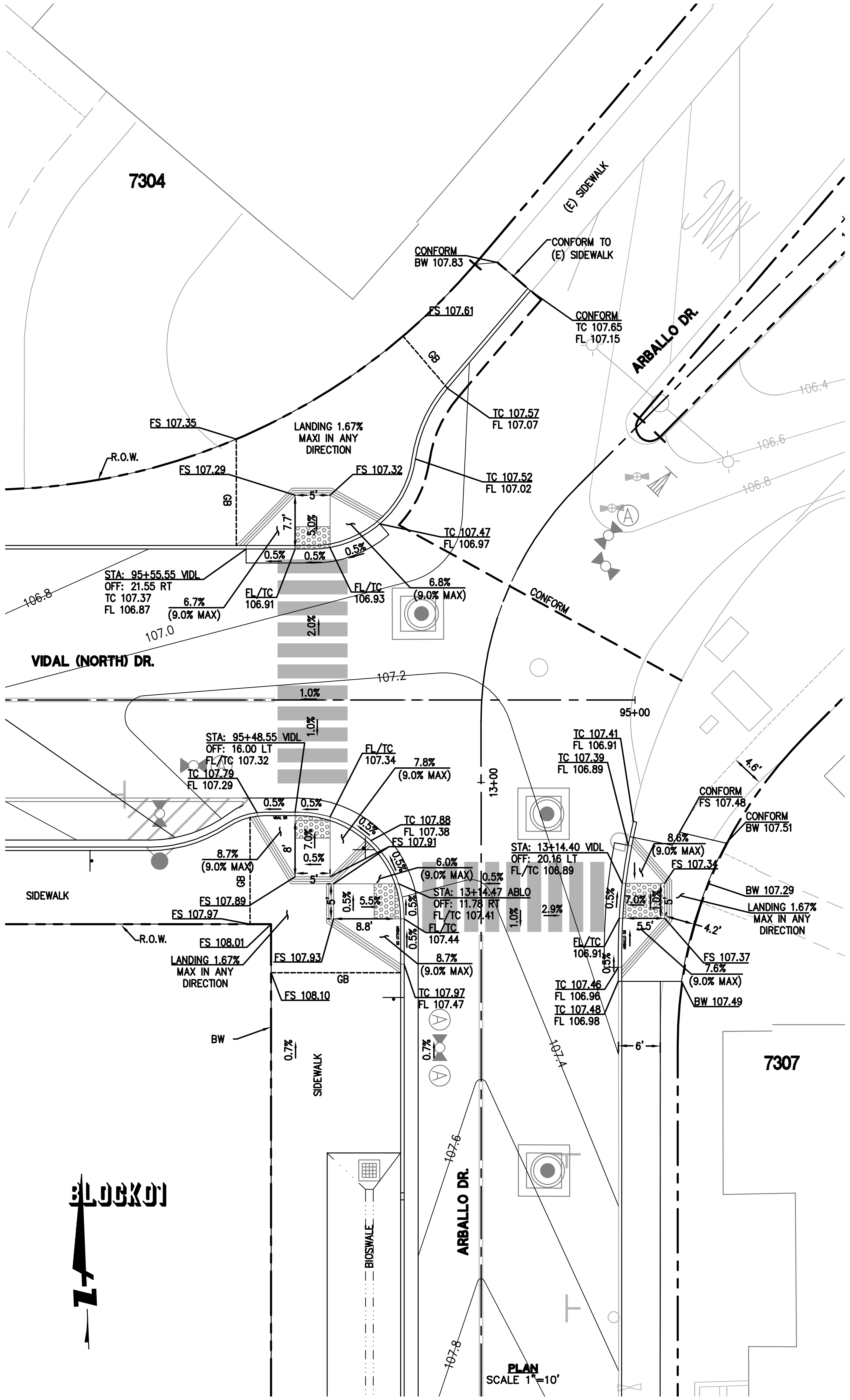
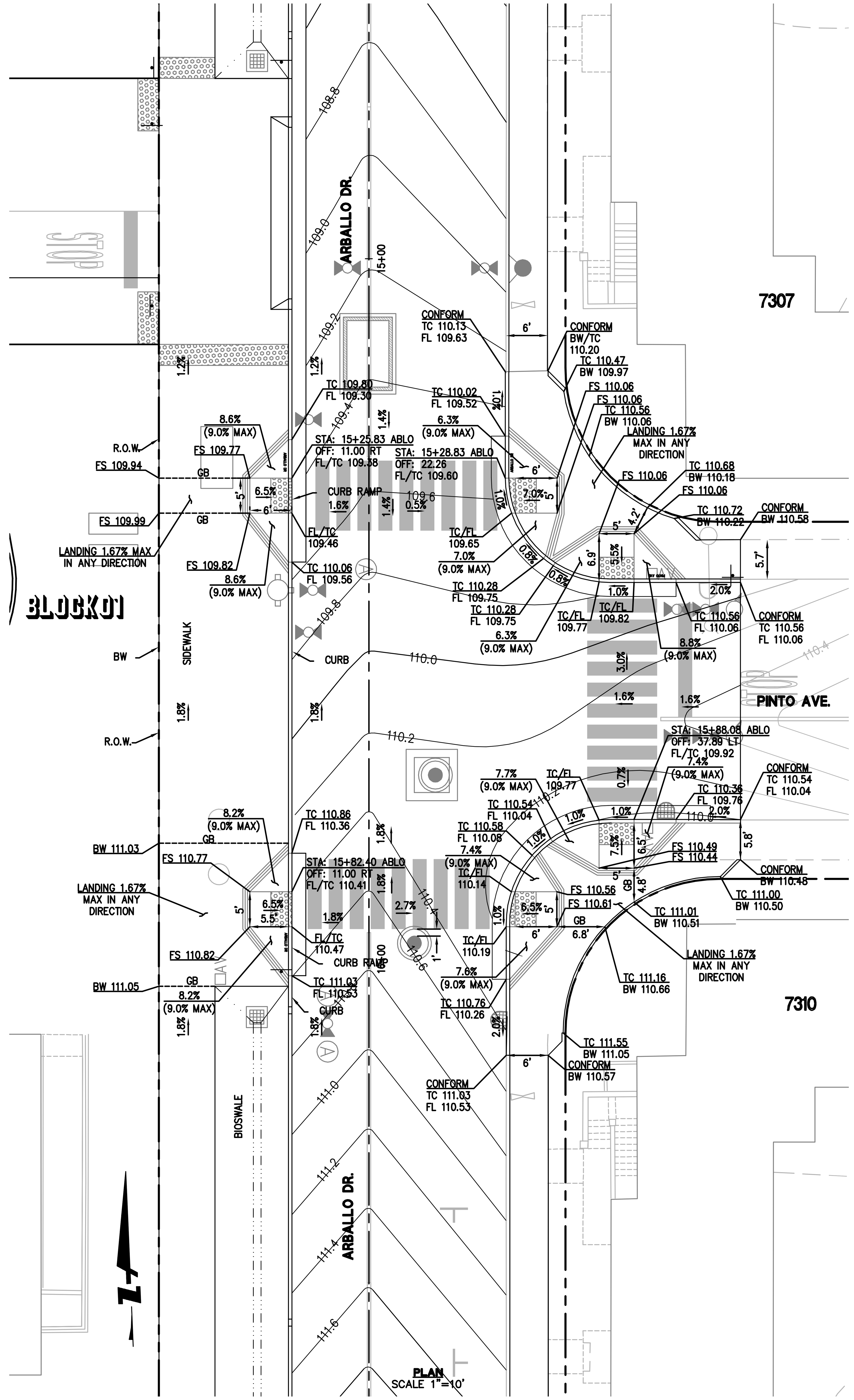
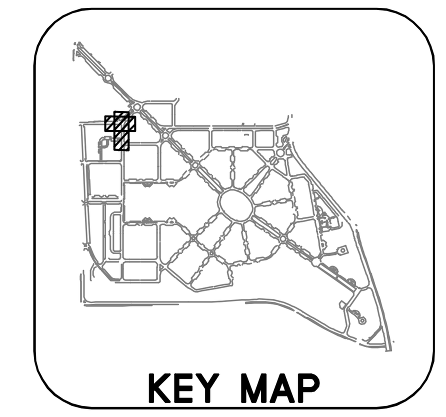
APPROVED SET FOR BOARD SUBMITTAL 05.01.17







GRAPHIC SCALE

10 0 10 20

NOTES
1. REFER TO SHEET C3.00 FOR GENERAL GRADING NOTES.
2. STREET NAMES SHALL BE STAMPED INTO WET CONCRETE IN WING SECTION OF CURB RAMPS. OBTAIN CONCURRENCE FROM OWNER'S AGENT ON LOCATION OF CONCRETE PLACEMENT.
3. REFER TO CCSF STD PLANS FOR REQUIRED DETECTABLE SURFACE AND GROOVING DETAILS

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INTERSECTION DETAILS

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No.	Revisions

Date: 05/01/17
Scale: 1"=10'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.24

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C309-DET.dwg (C3.24)
PLOT TIME: 5-1-2017 11:48 AM PLOTTED BY: bum

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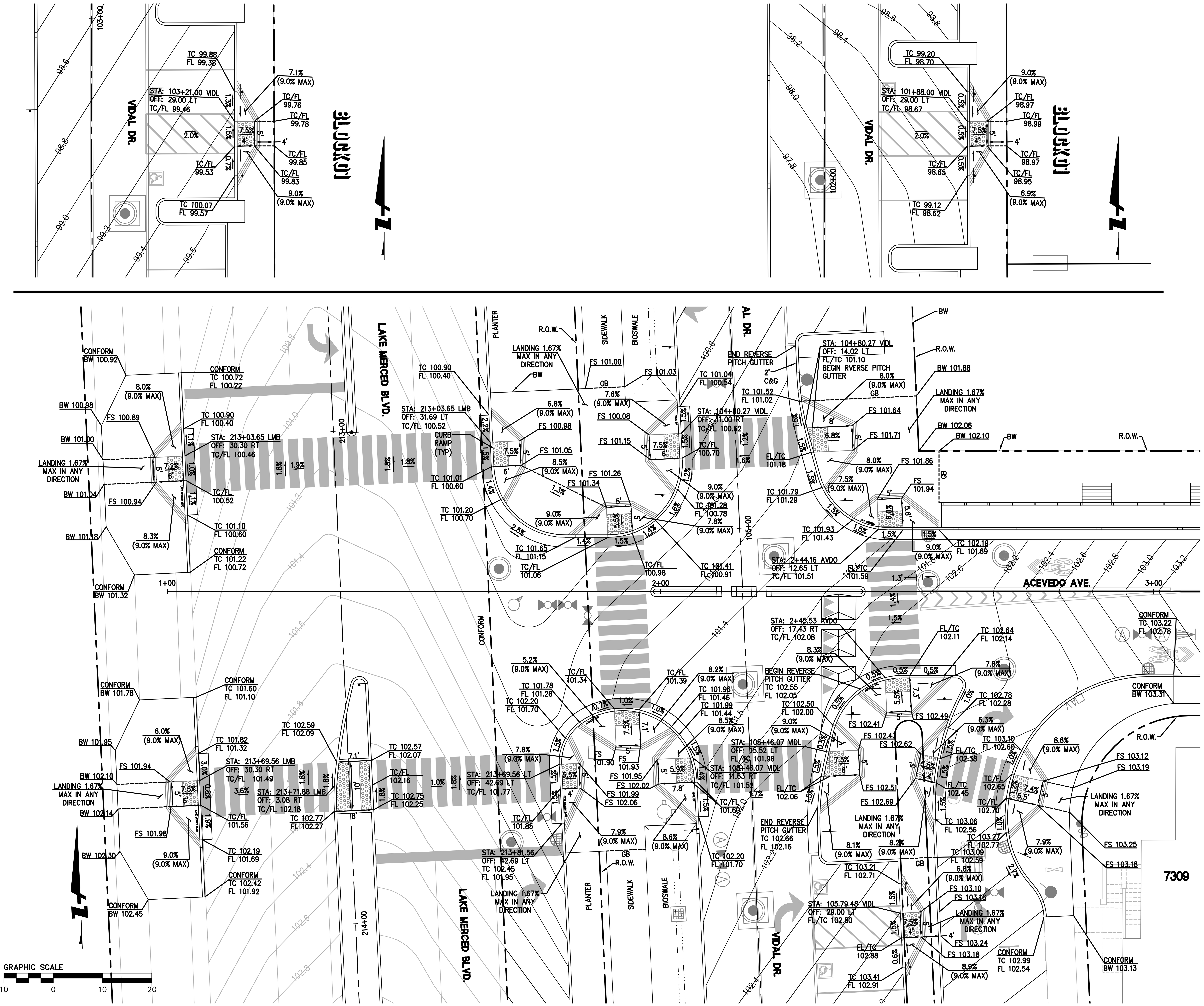

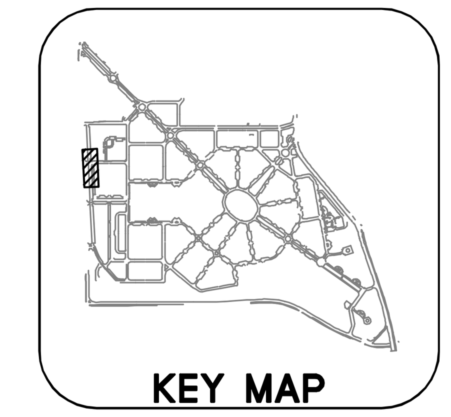

NOTES
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No.	Revisions

Date: 05/01/17
Scale: 1"=10'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.25

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C309-DET.dwg (C3.25)
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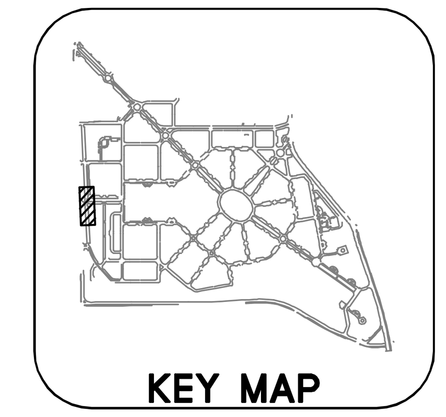

GRAPHIC SCALE

10 0 10 20

NOTES

1. REFER TO SHEET C3.00 FOR GENERAL GRADING NOTES.
2. STREET NAMES SHALL BE STAMPED INTO WET CONCRETE IN WING SECTION OF CURB RAMPS. OBTAIN CONCURRENCE FROM OWNER'S AGENT ON LOCATION OF CONCRETE PLACEMENT.
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Date: 05/01/17
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Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C3.26

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C309-DET.dwg (C3.26)
PLOT TIME: 5-1-2017 11:48 AM PLOTTED BY: bum

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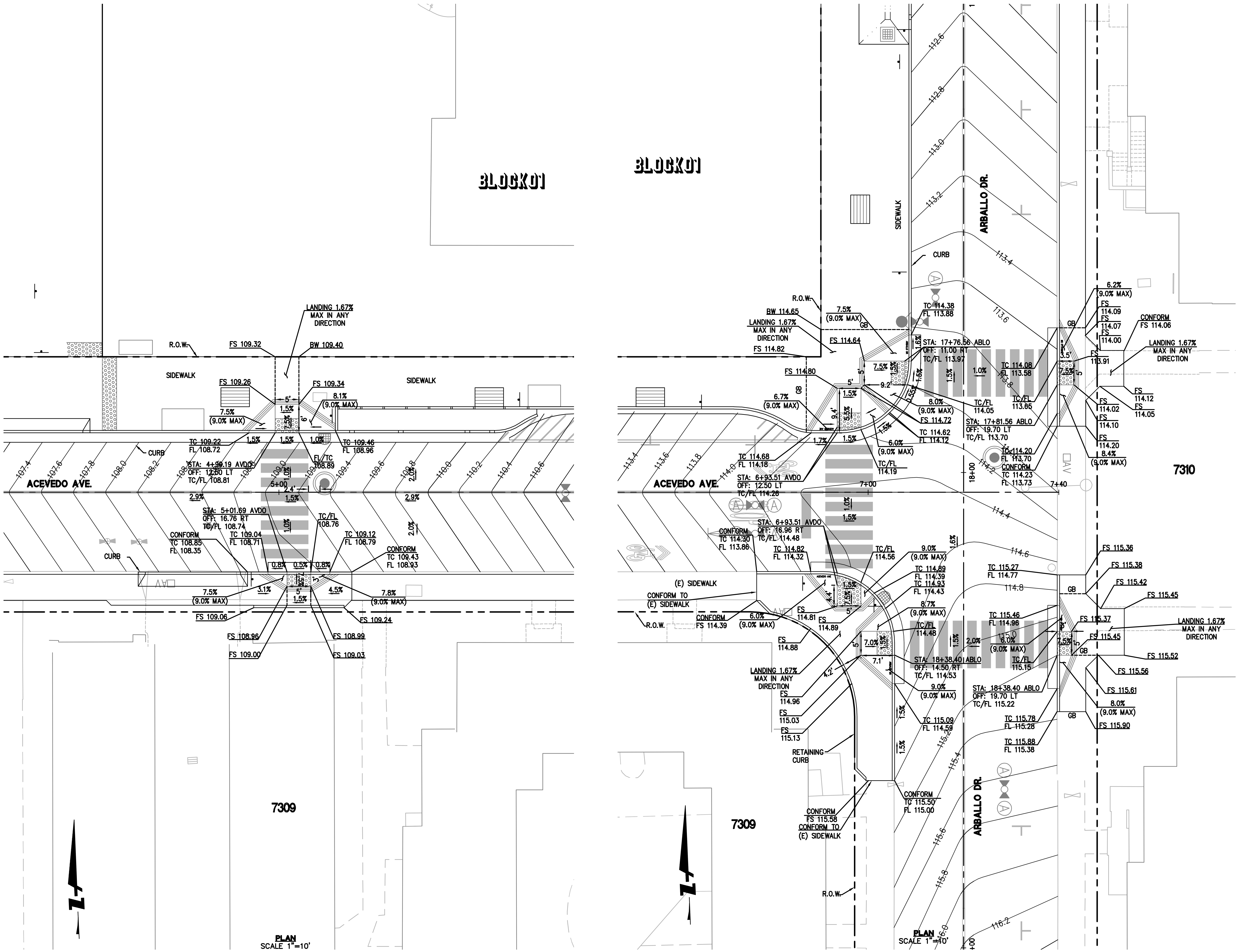

KEY MAP

GRAPHIC SCALE
10 0 10 20

NOTES
1. REFER TO SHEET C3.00 FOR GENERAL GRADING NOTES.
2. STREET NAMES SHALL BE STAMPED INTO WET CONCRETE IN WING SECTION OF CURB RAMPS. OBTAIN CONCURRENCE FROM OWNER'S AGENT ON LOCATION OF CONCRETE PLACEMENT.
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Design: TH
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Approved: BS
Job No: 20090086

Drawing Number:
C3.27

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C309-DET.dwg (C3.27)
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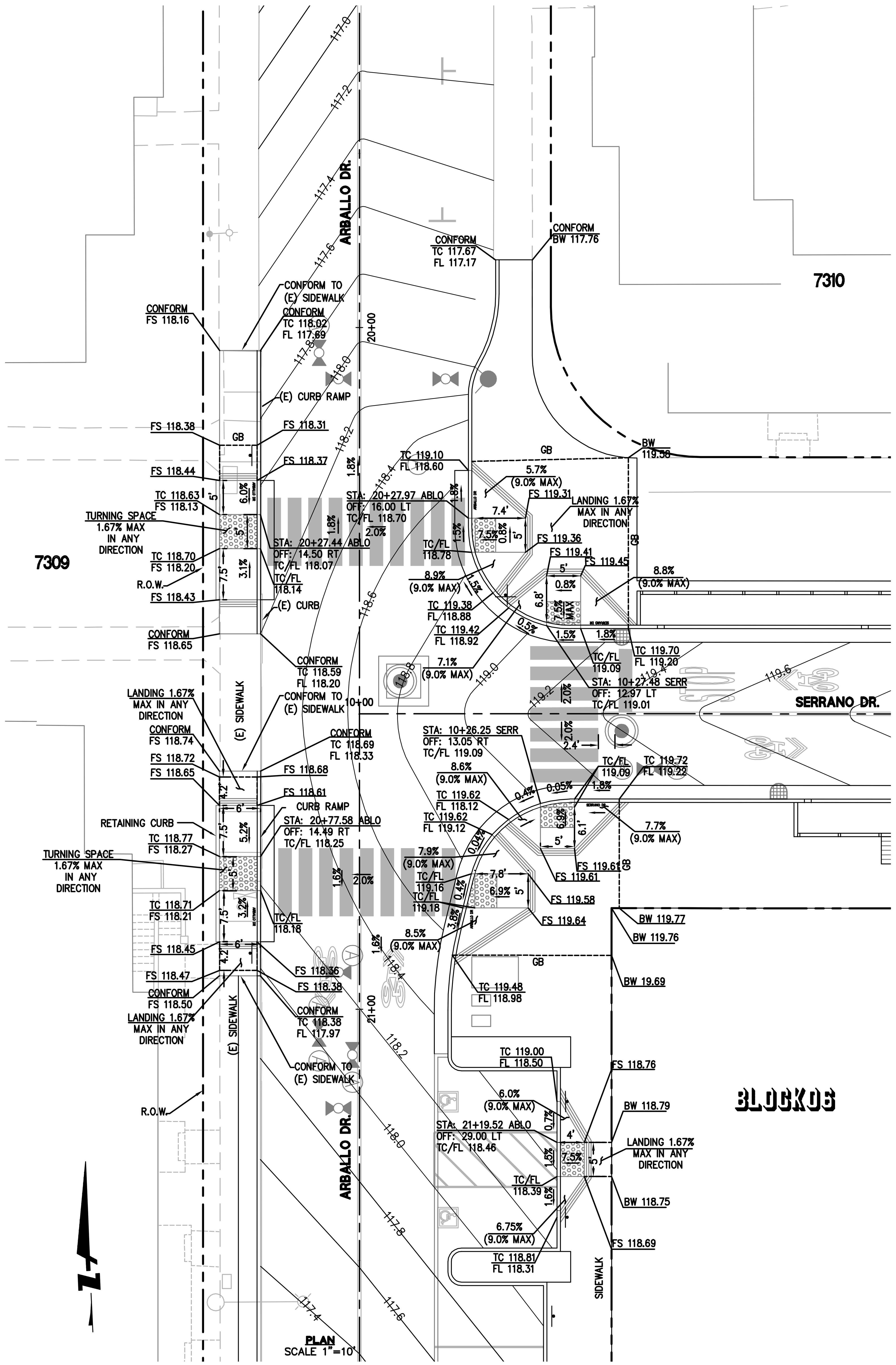

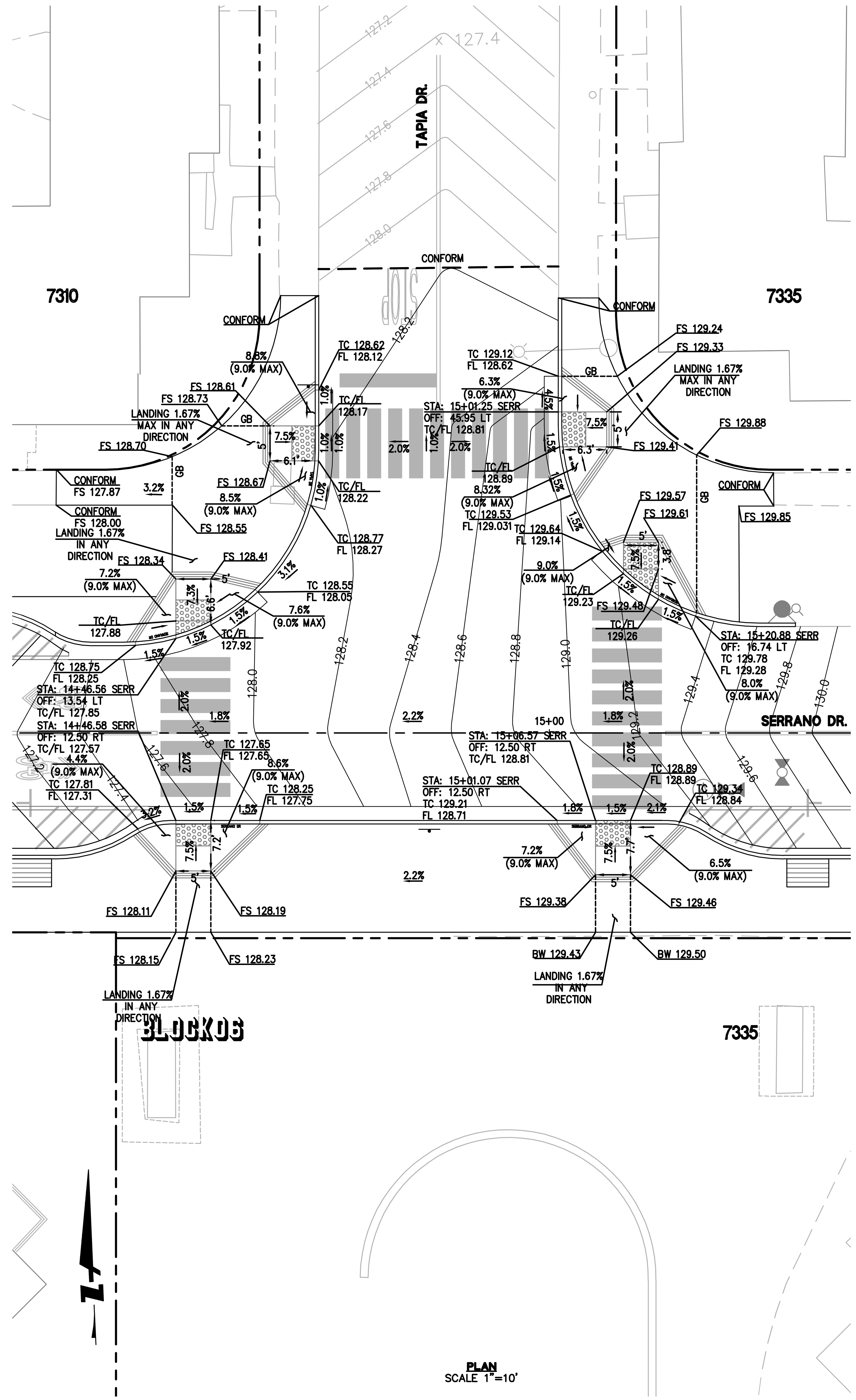

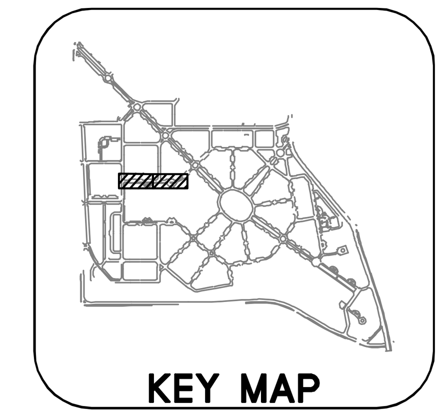

GRAPHIC SCALE

10 0 10 20

NOTES
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Date: 05/01/17
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Approved: BS
Job No: 20090086

Drawing Number:
C3.28

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C309-DET.dwg (C3.28)
PLOT TIME: 5-1-2017 11:49 AM PLOTTED BY: bum

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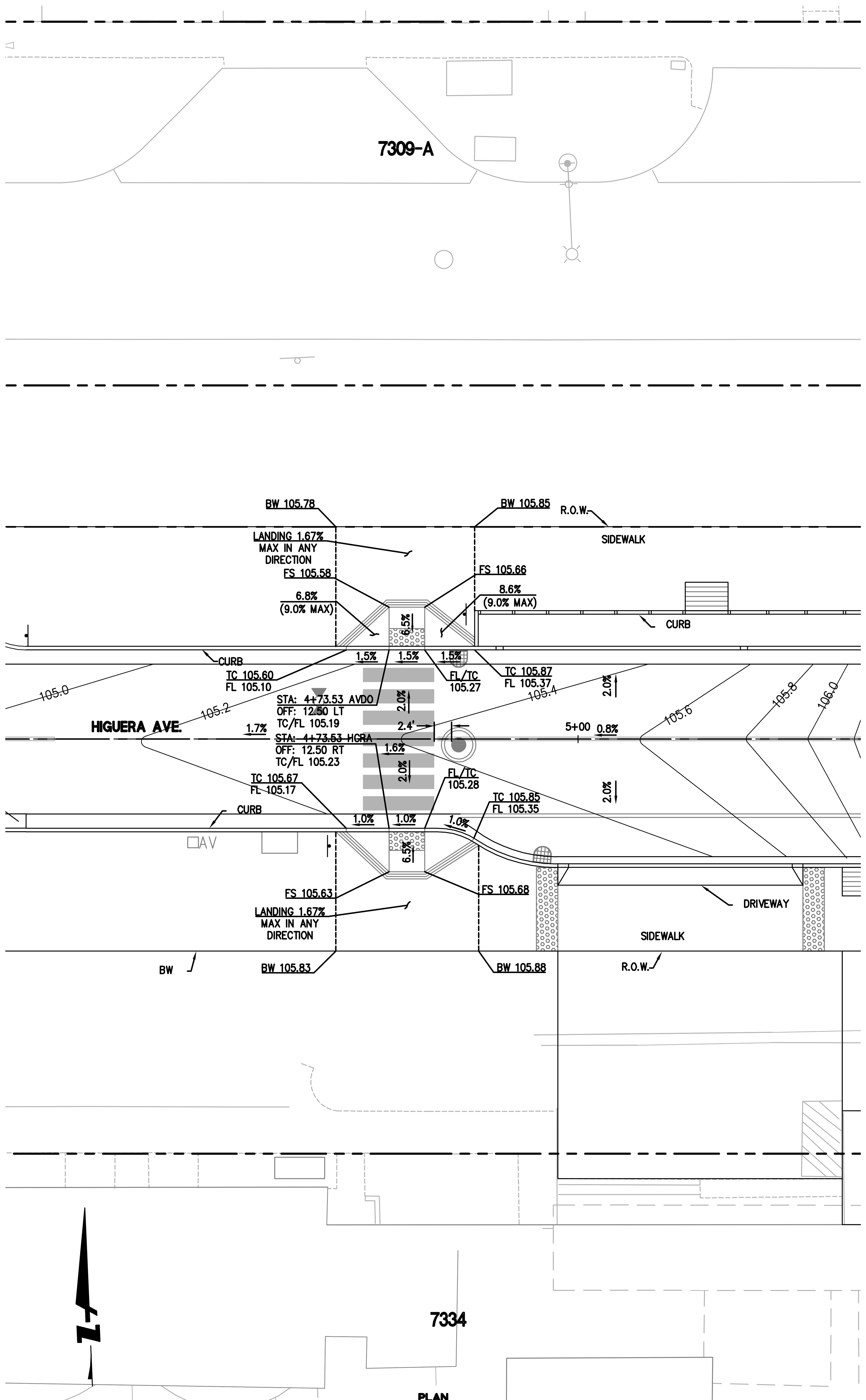

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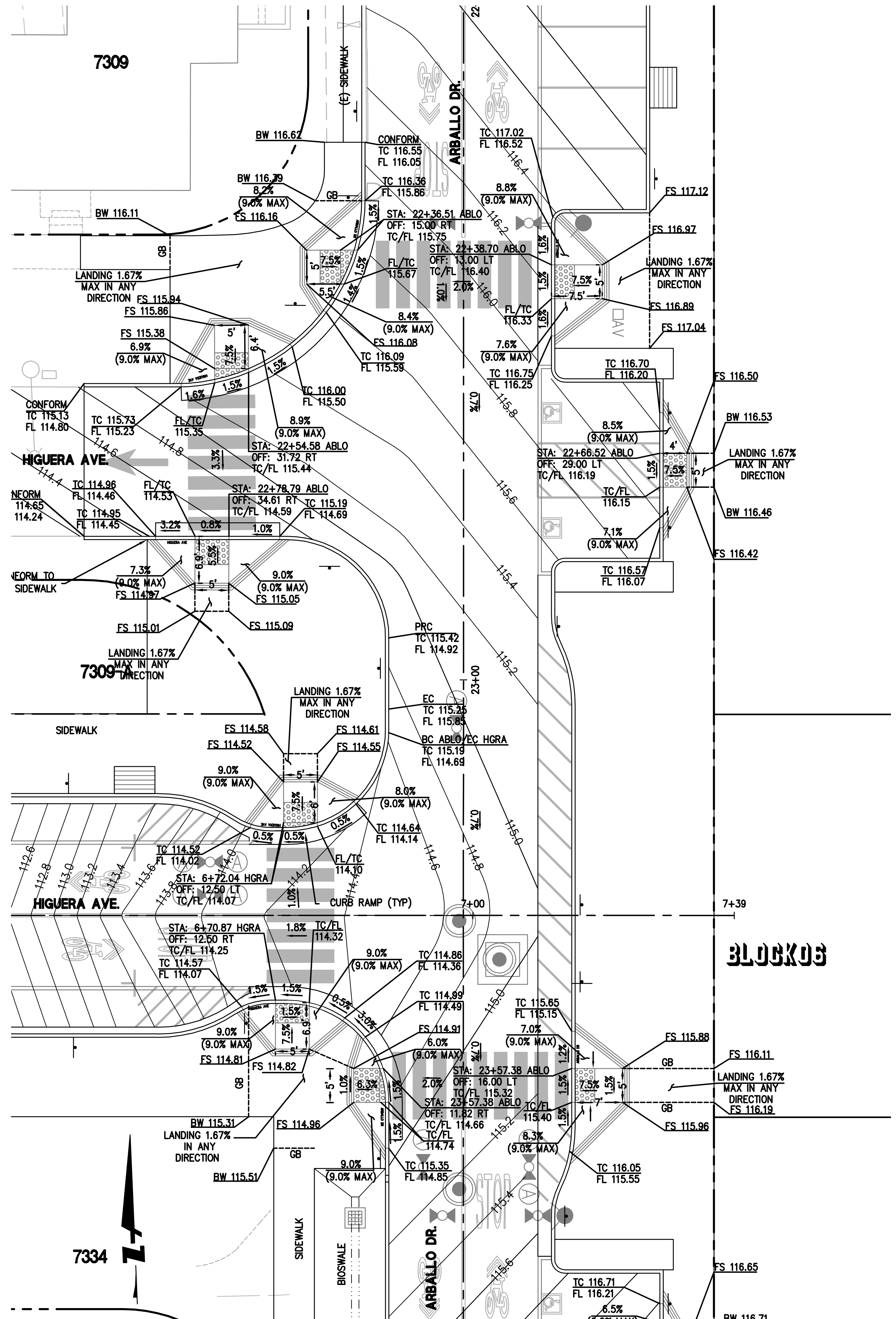
SCALE 1"=10'



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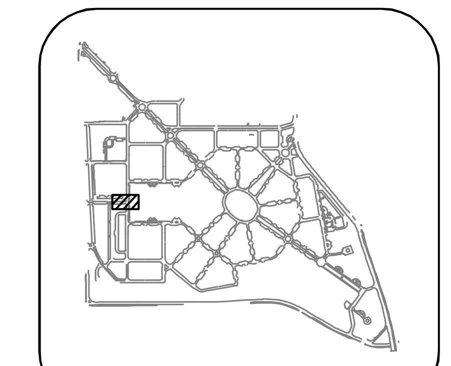

KEY MAP

GRAPHIC SCALE
10 0 10 20

NOTES
1. REFER TO SHEET C3.00 FOR GENERAL GRADING NOTES.
2. STREET NAMES SHALL BE STAMPED INTO WET CONCRETE IN WING SECTION OF CURB RAMPS. OBTAIN CONCURRENCE FROM OWNER'S AGENT ON LOCATION OF CONCRETE PLACEMENT.
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No.	Revisions

Date: 05/01/17
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Design: TH
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Approved: BS
Job No: 20090086

Drawing Number:
C3.29

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C309-DET.dwg (C3.29)
PLOT TIME: 5-1-2017 11:49 AM PLOTTED BY: bum

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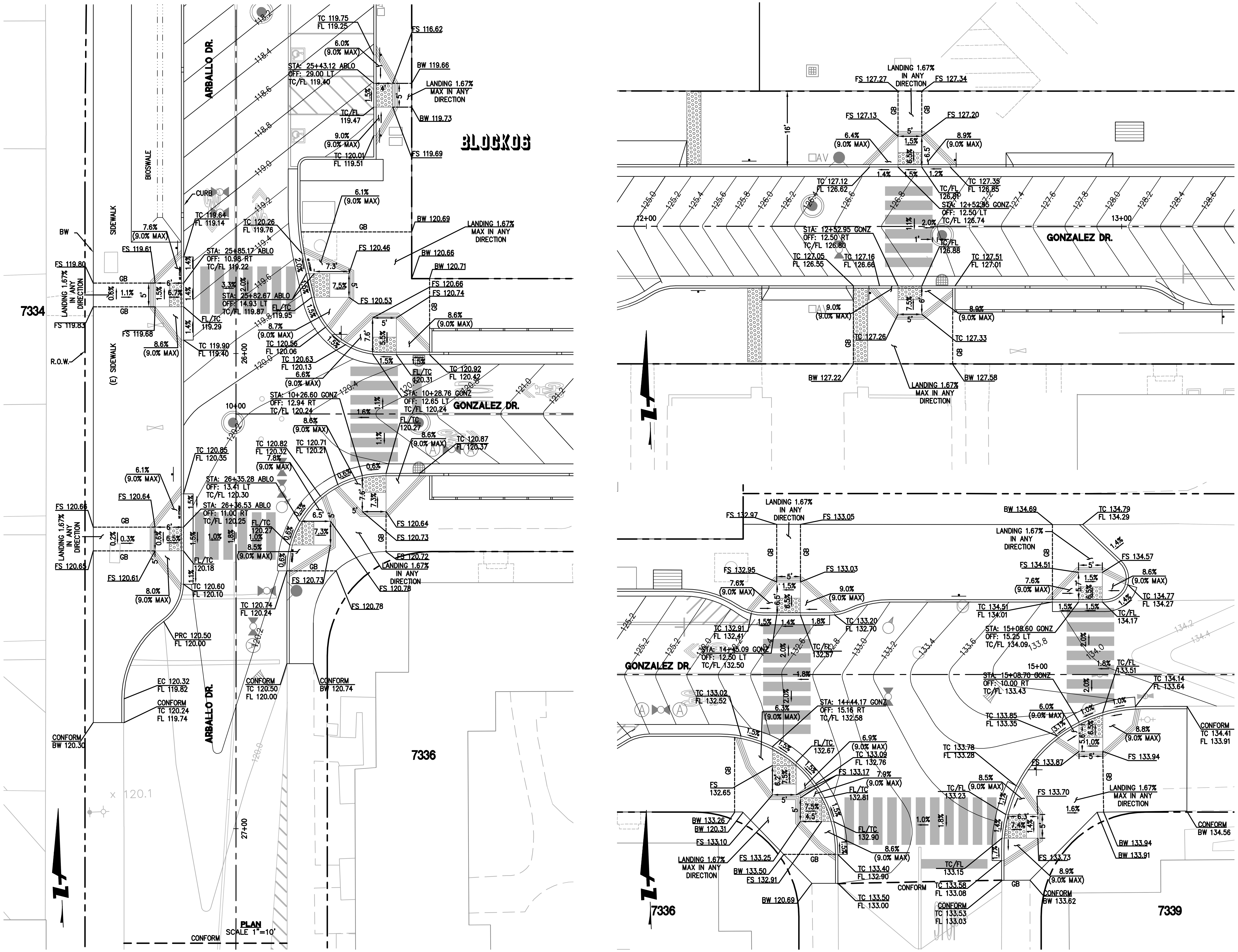

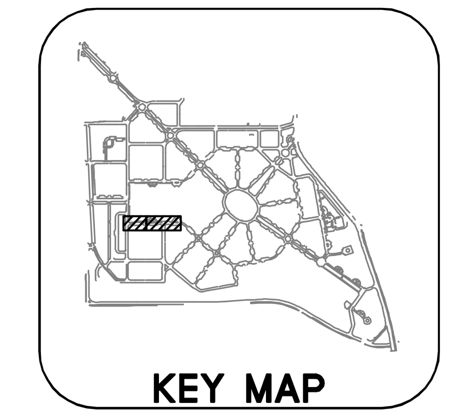

GRAPHIC SCALE

10 0 10 20

NOTES

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No.	Revisions

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Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C3.30

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C309-DET.dwg (C3.30)
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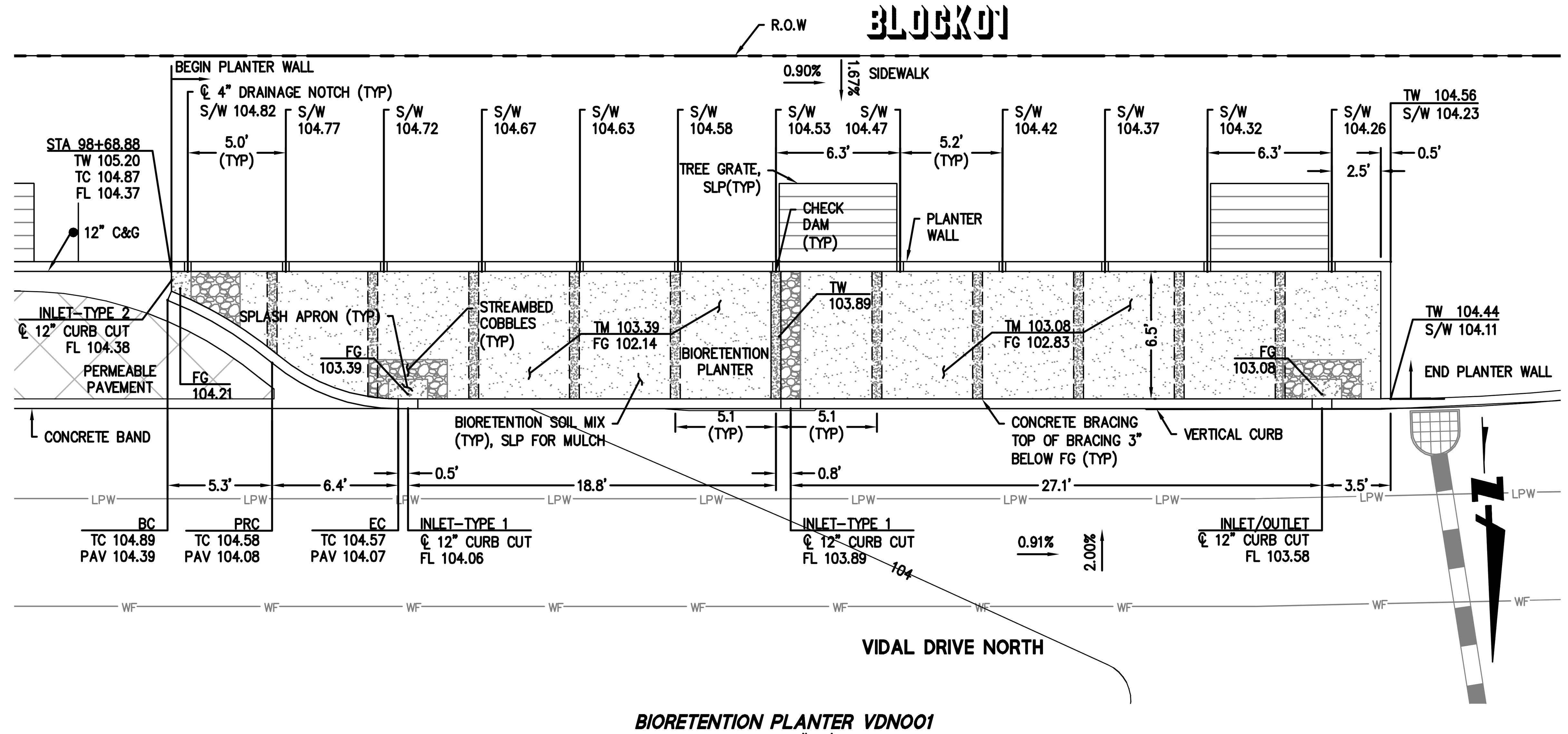

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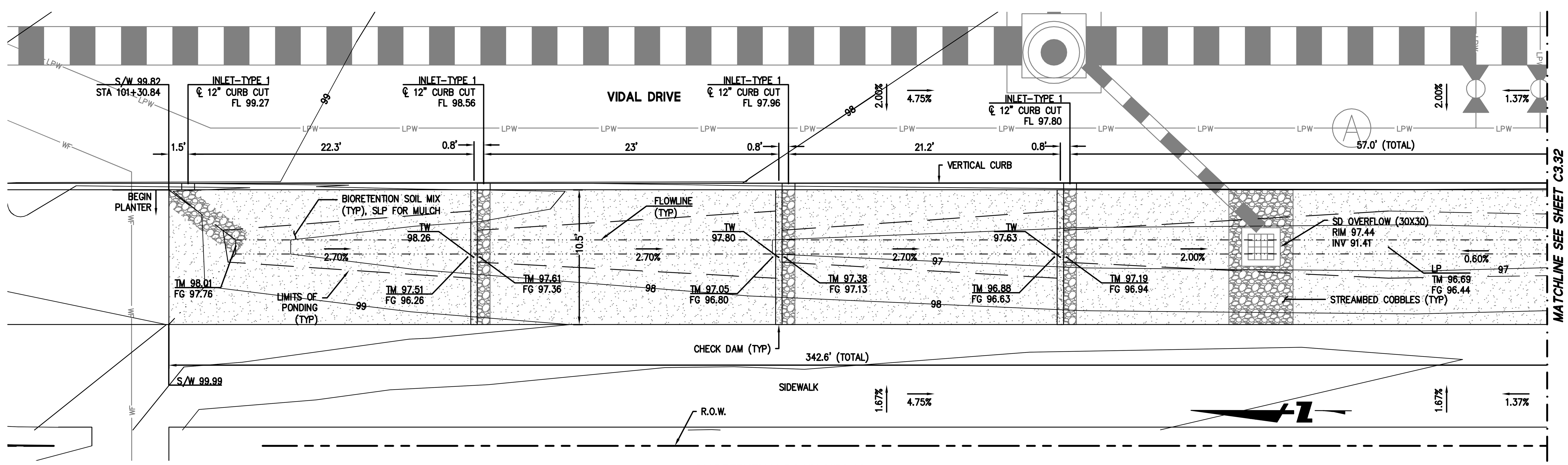

BIORETENTION BASIN VIDL01
SCALE: 1"=5'

GRAPHIC SCALE
5 0 5 10

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BMP GRADING DETAIL - VIDAL DR.

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No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
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Approved: BS
Job No: 20090086

Drawing Number:
C3.31

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C311-BMP.dwg (C3.31)
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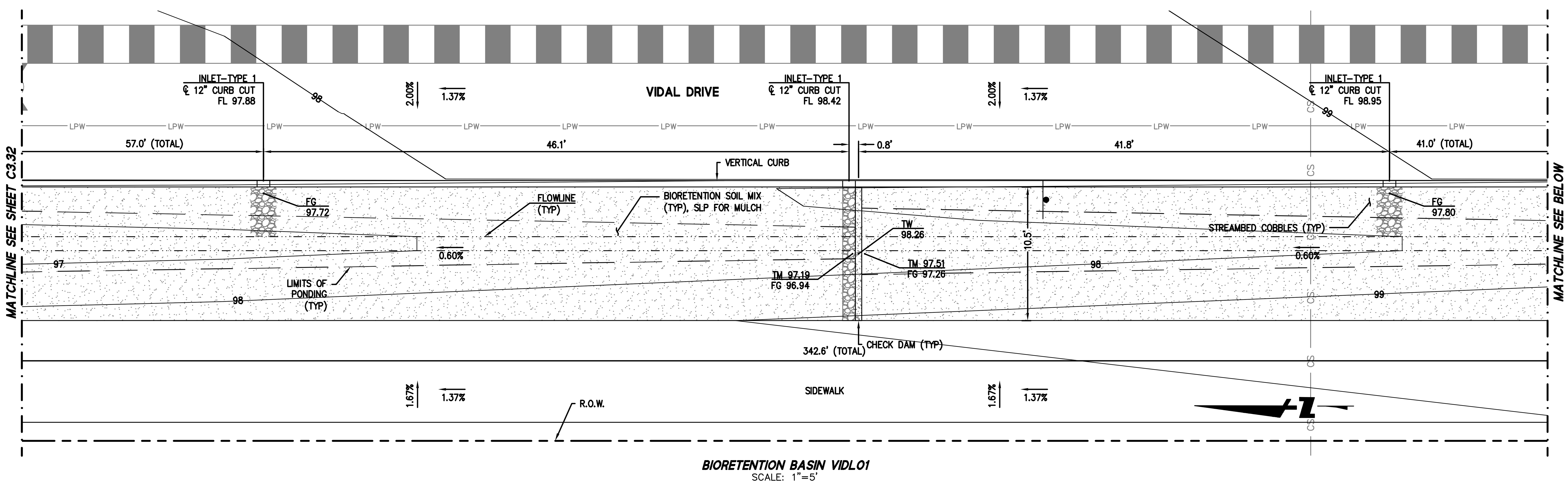

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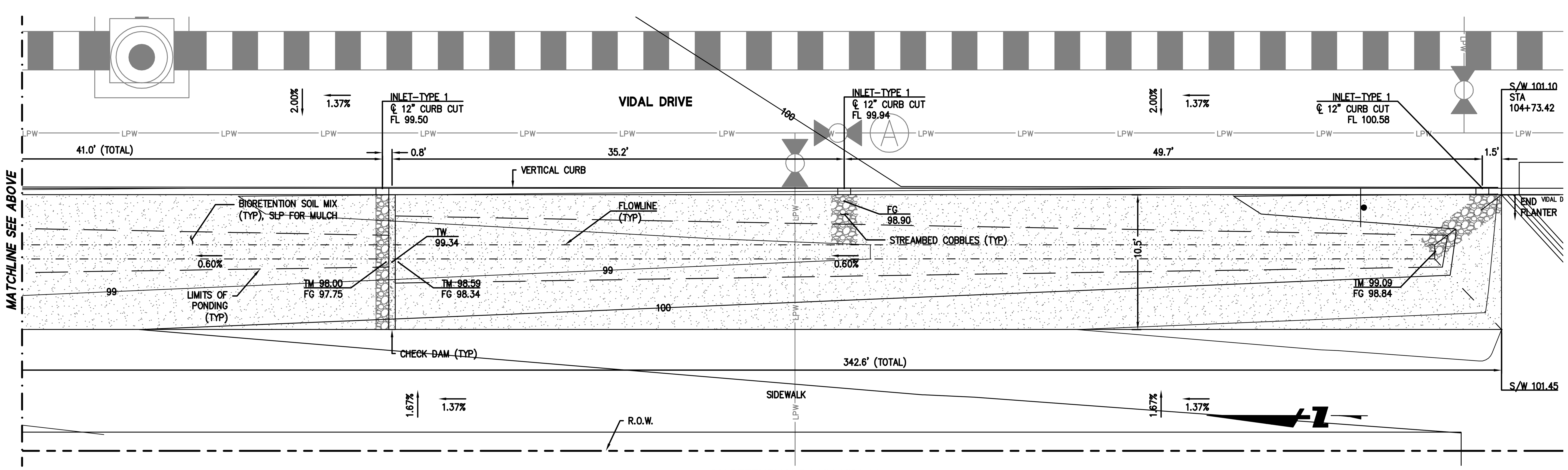

BIORETENTION BASIN VIDL01
SCALE: 1"=5'

GRAPHIC SCALE
5 0 5 10

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BMP GRADING DETAIL – VIDAL DR.
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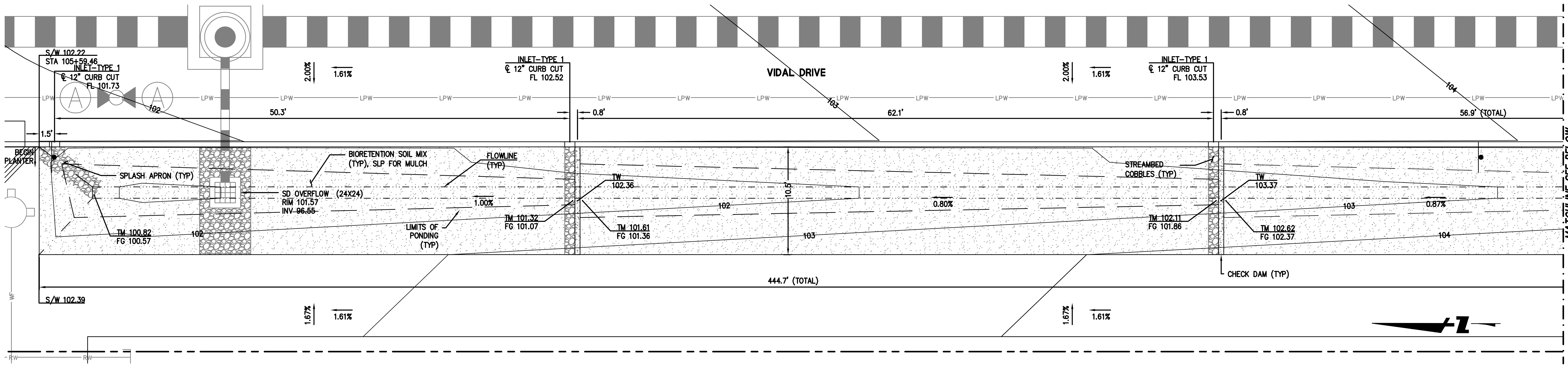
No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.32

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C311-BMP.dwg (C3.32)
PLOT TIME: 4-28-2017 2:04 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17



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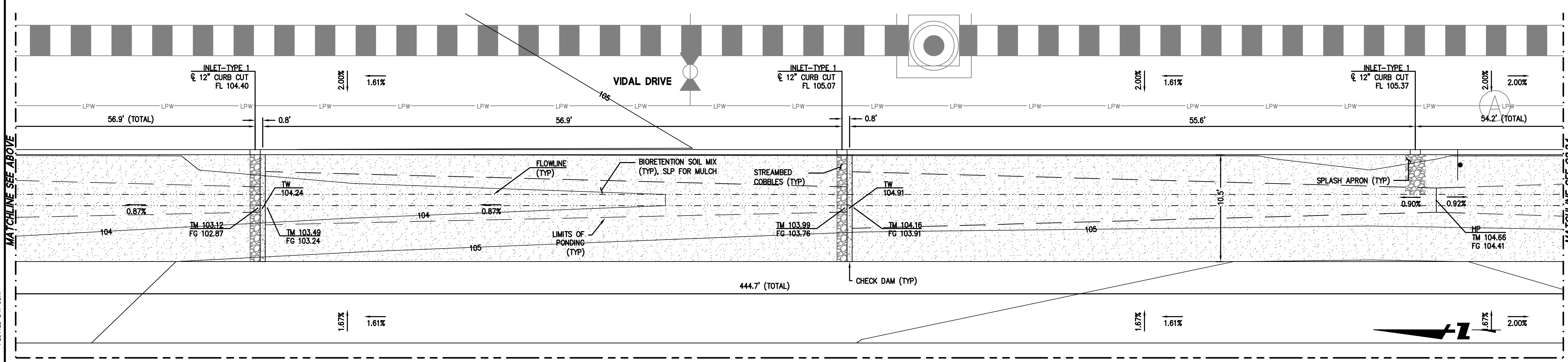

BIORETENTION BASIN VIDL02
SCALE: 1"=5'

GRAPHIC SCALE
5 0 5 10

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No.	Revisions

Date: 05/01/17
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Approved: BS
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Drawing Number:
C3.33

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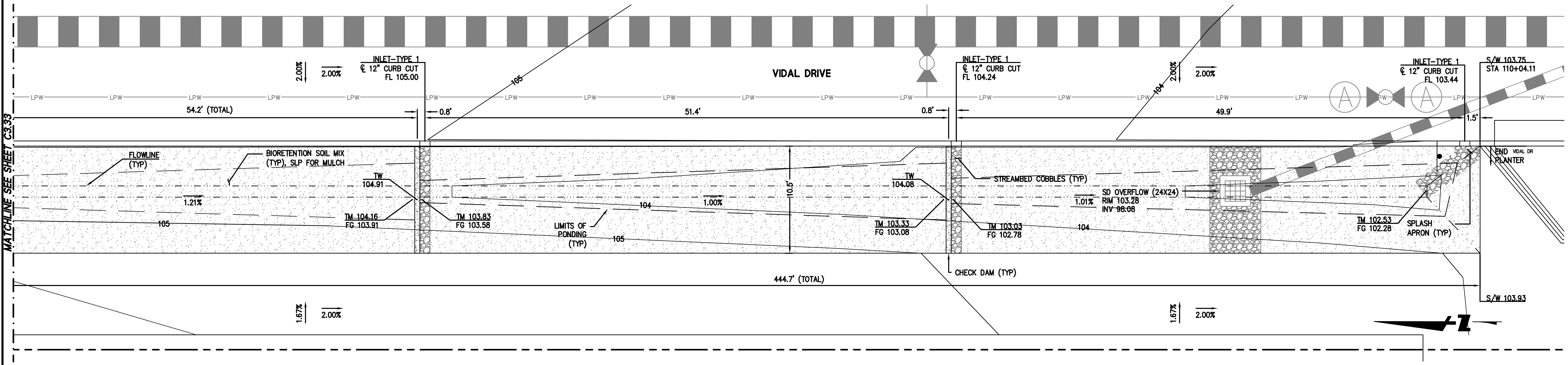

BIORETENTION BASIN VIDL02
SCALE: 1"=5'

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5 0 5 10

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No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
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Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.34

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C311-BMP.dwg (C3.34)
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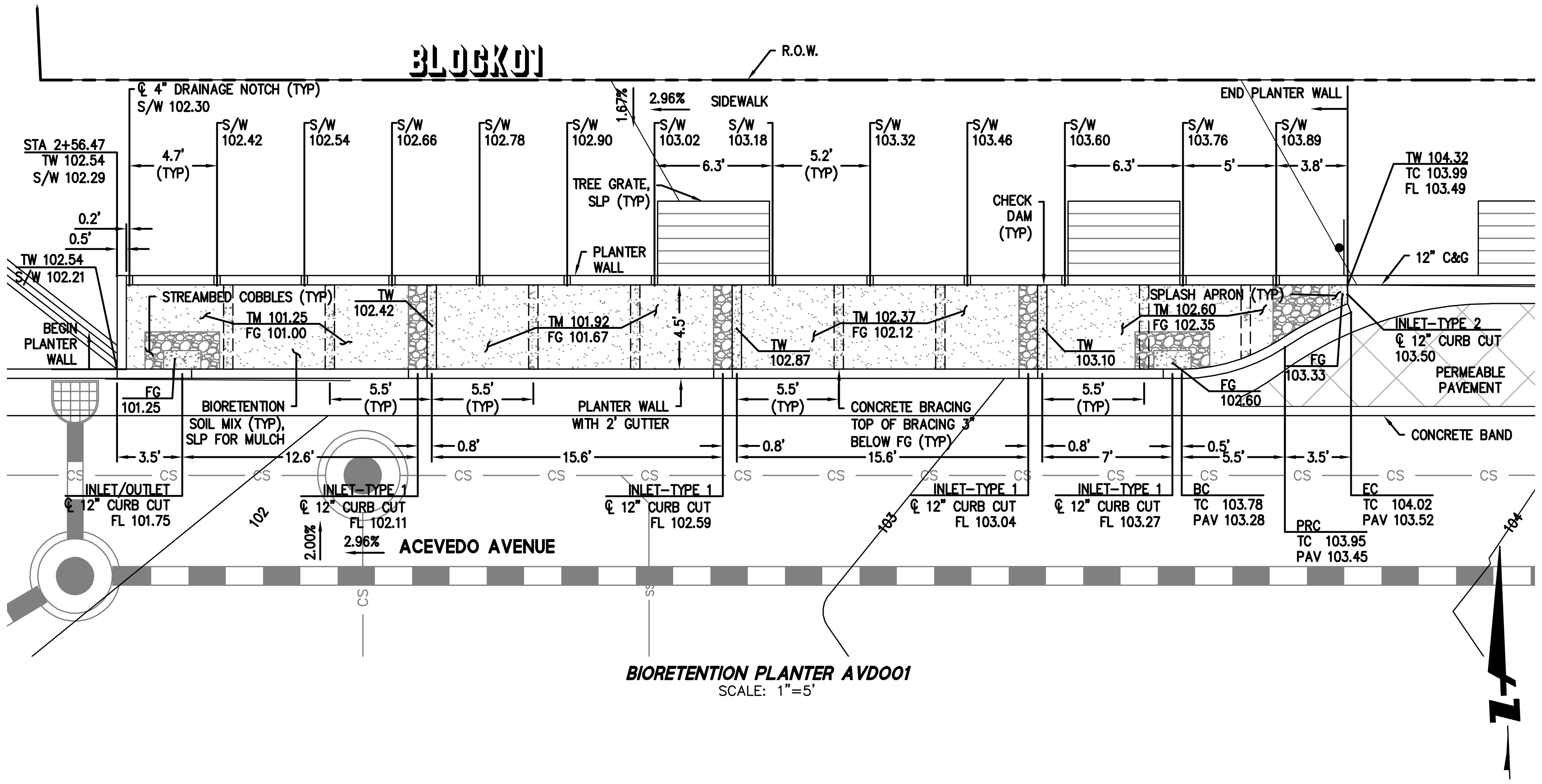

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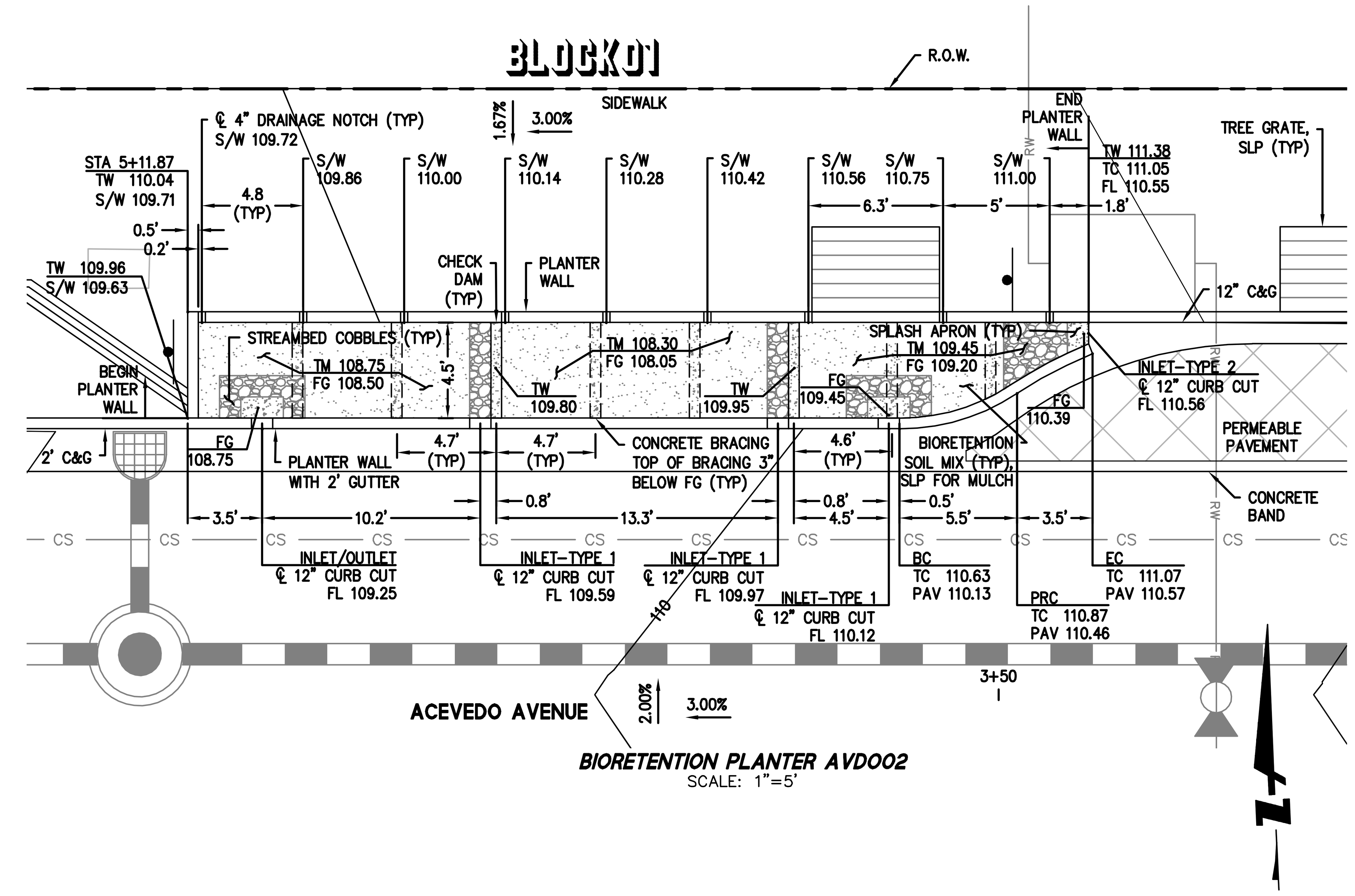

BIORETENTION PLANTER AVD002
SCALE: 1"=5'

GRAPHIC SCALE
5 0 5 10

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No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
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Approved: BS
Job No: 20090086

Drawing Number:
C3.35

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C311-BMP.dwg (C3.35)
PLOT TIME: 4-28-2017 2:04 PM PLOTTED BY: bum

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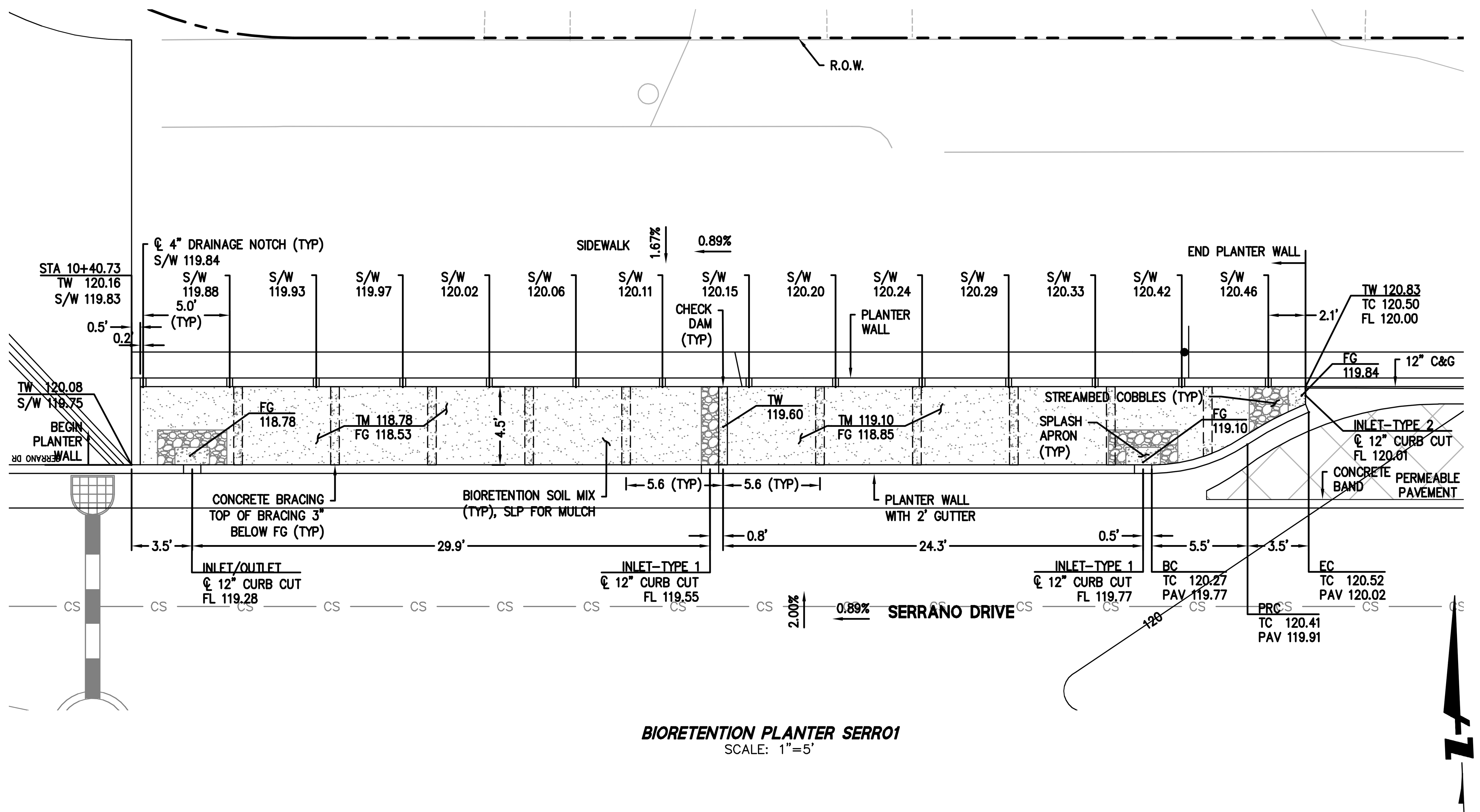

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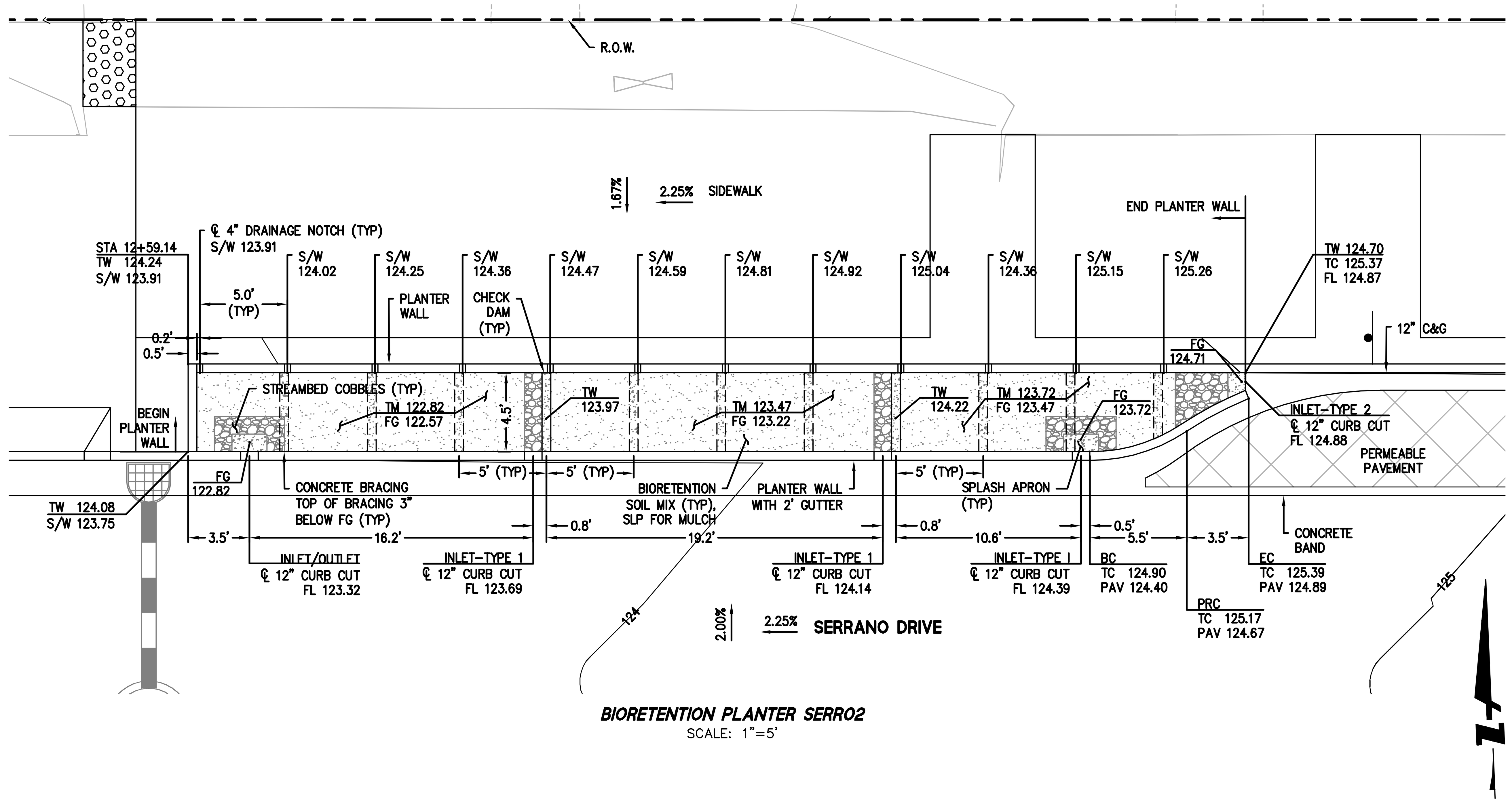

BIORETENTION PLANTER SERR02
SCALE: 1"=5'

GRAPHIC SCALE
5 0 5 10

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BMP GRADING DETAIL - SERRANO DR.
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.36

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C311-BMP.dwg (C3.36)
PLOT TIME: 4-28-2017 2:04 PM PLOTTED BY: bum

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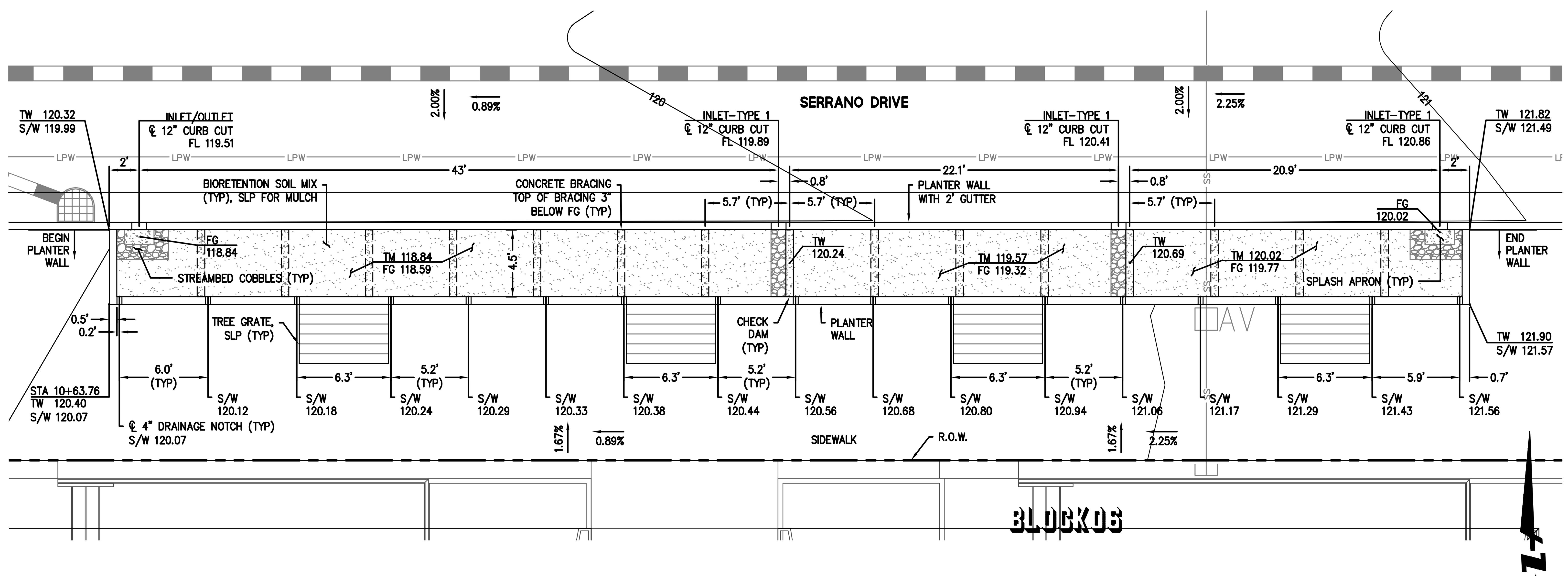

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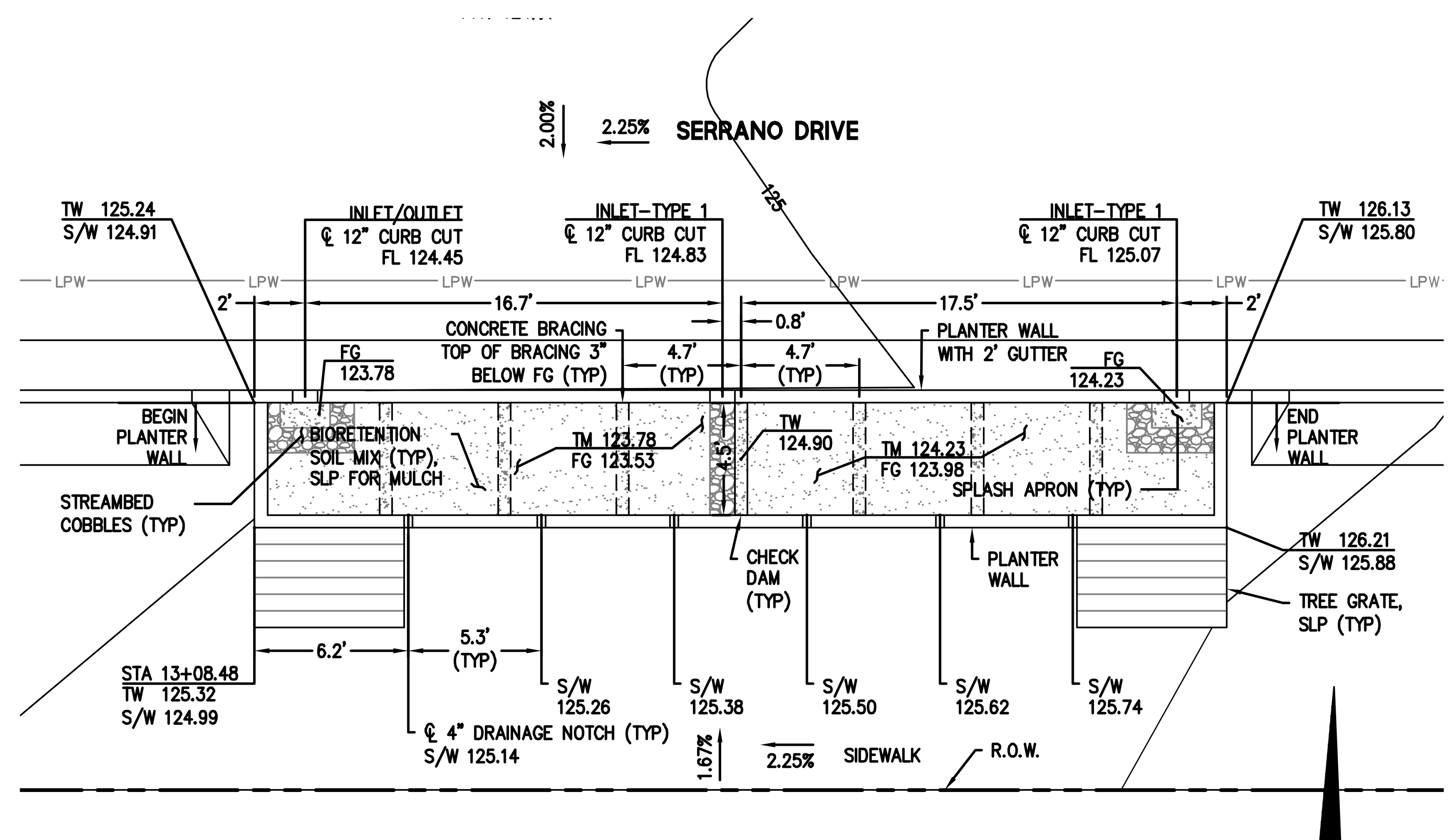

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BMP GRADING DETAIL - SERRANO DR.
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

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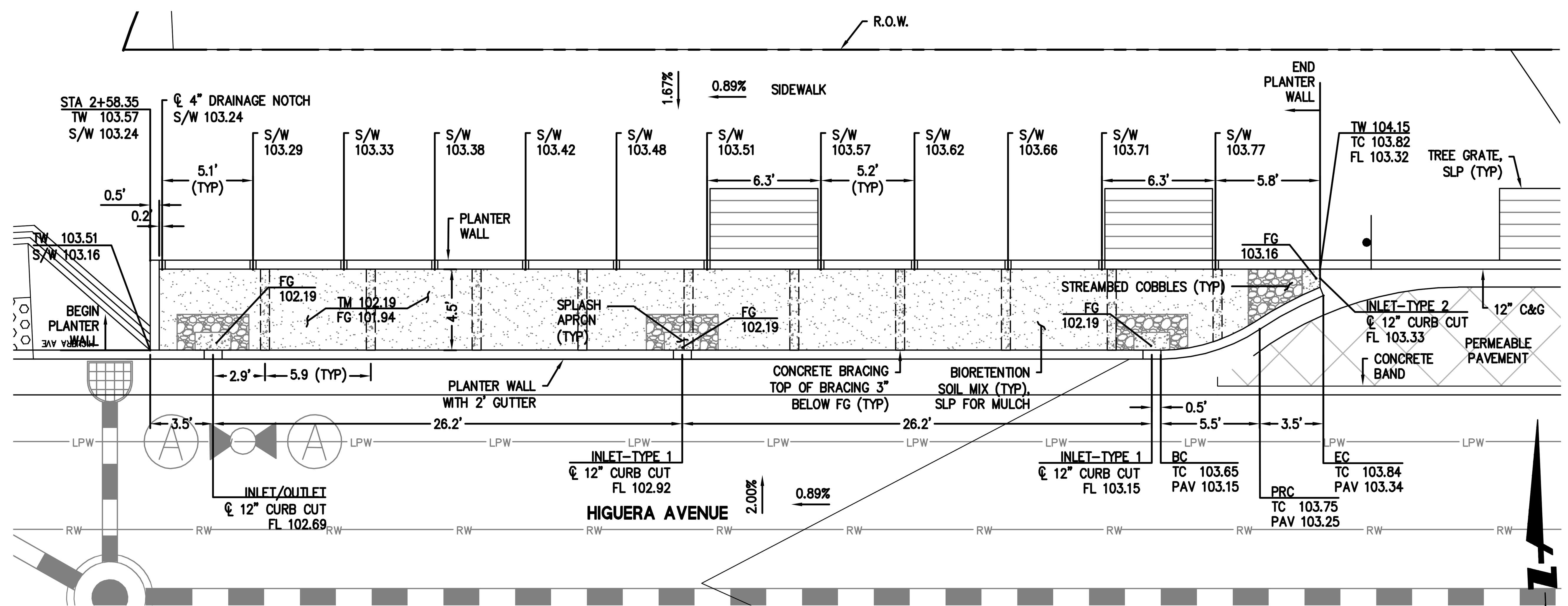

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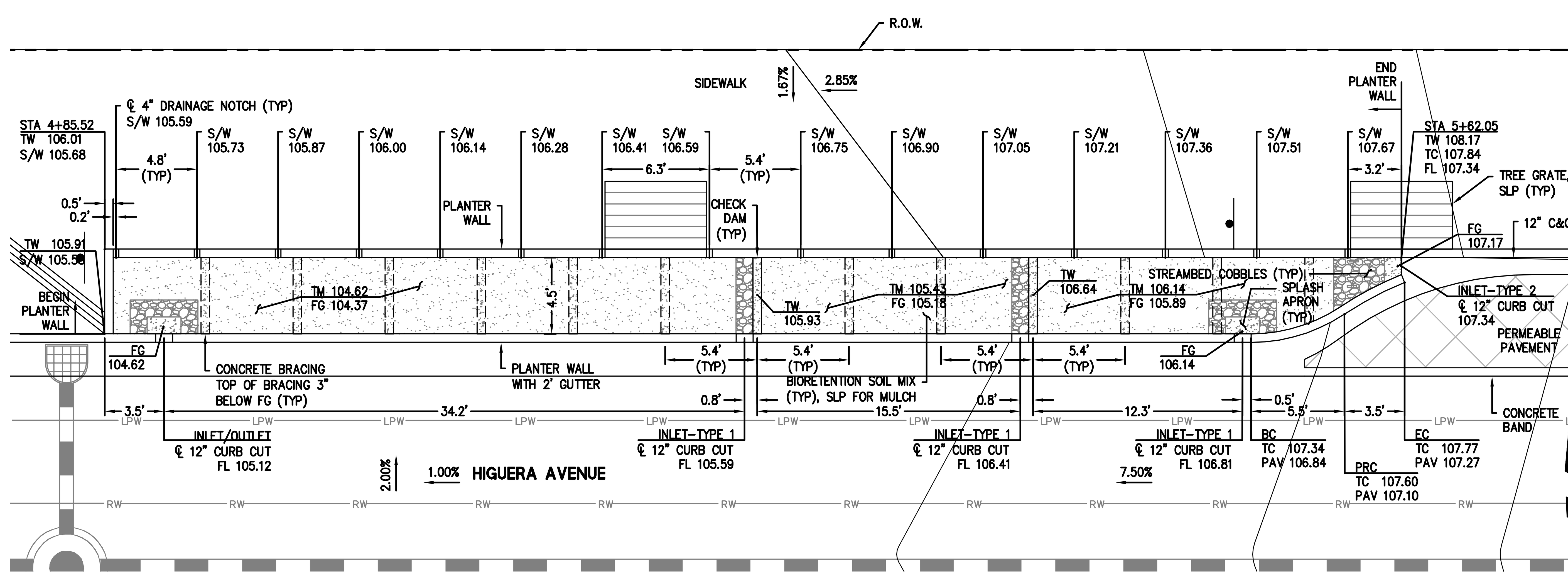

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GRAPHIC SCALE
5 0 5 10

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Job No: 20090086

Drawing Number:
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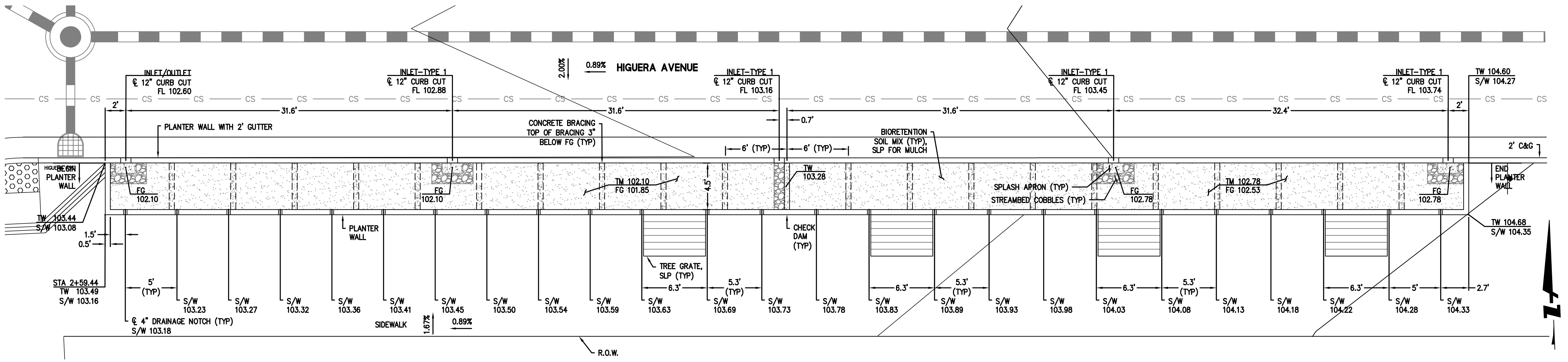

BIORETENTION PLANTER HGRA03
SCALE: 1"=5'

GRAPHIC SCALE
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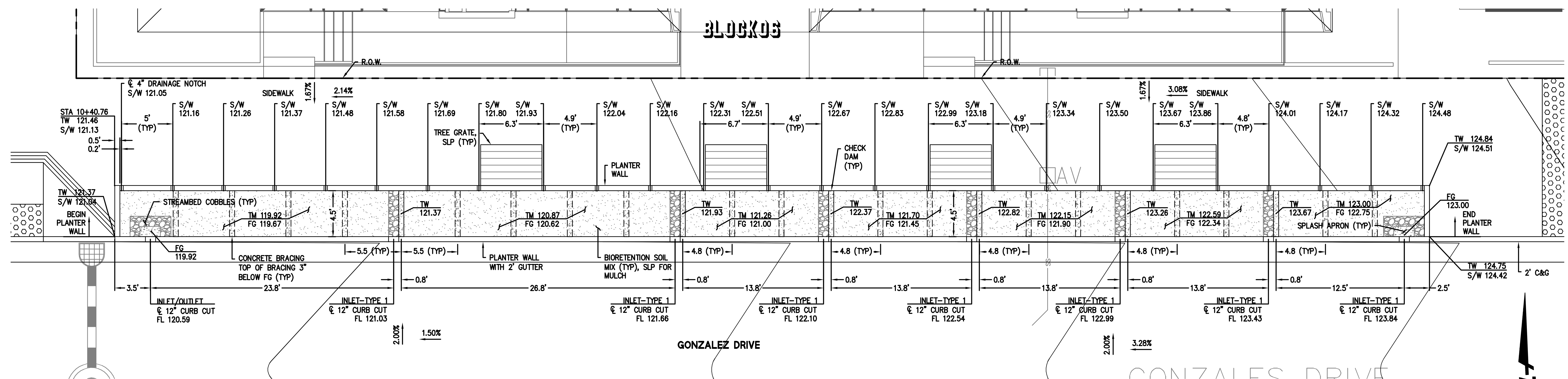

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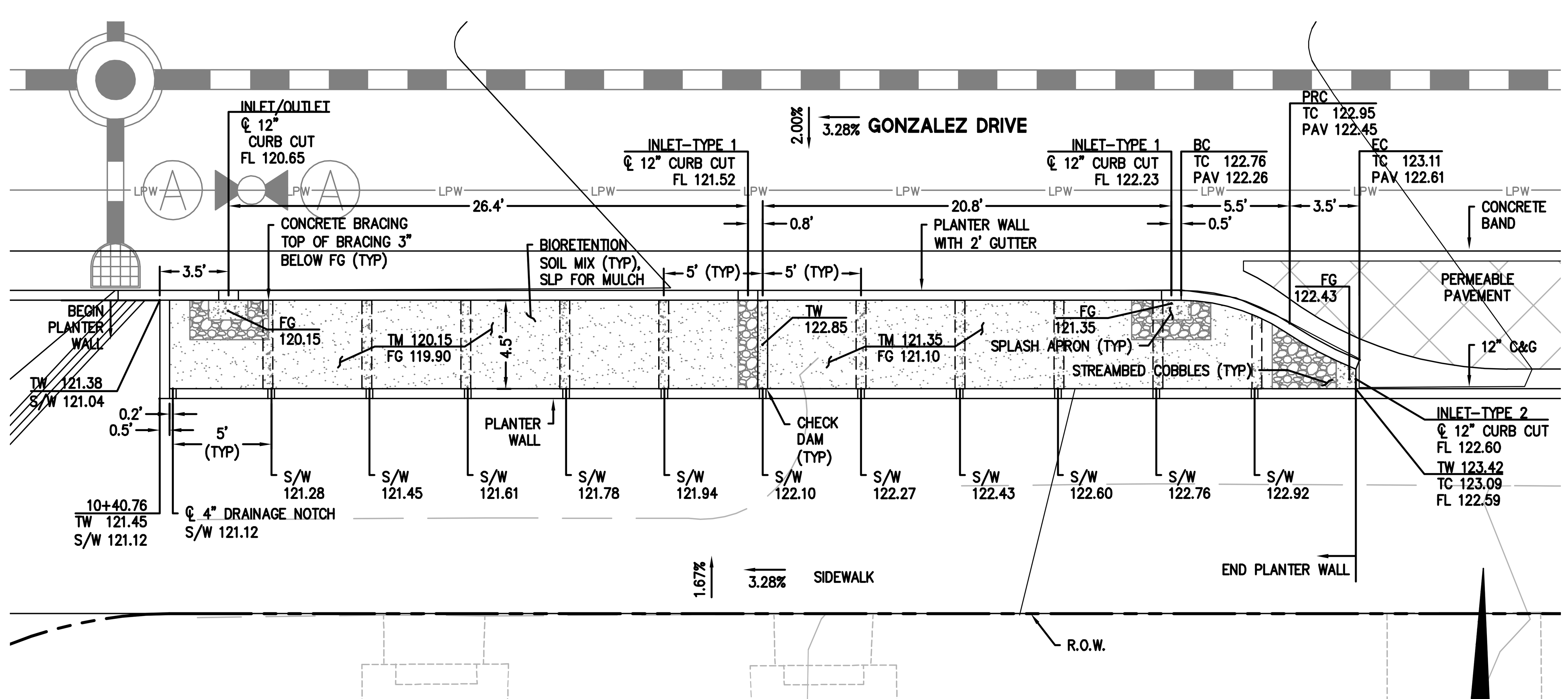

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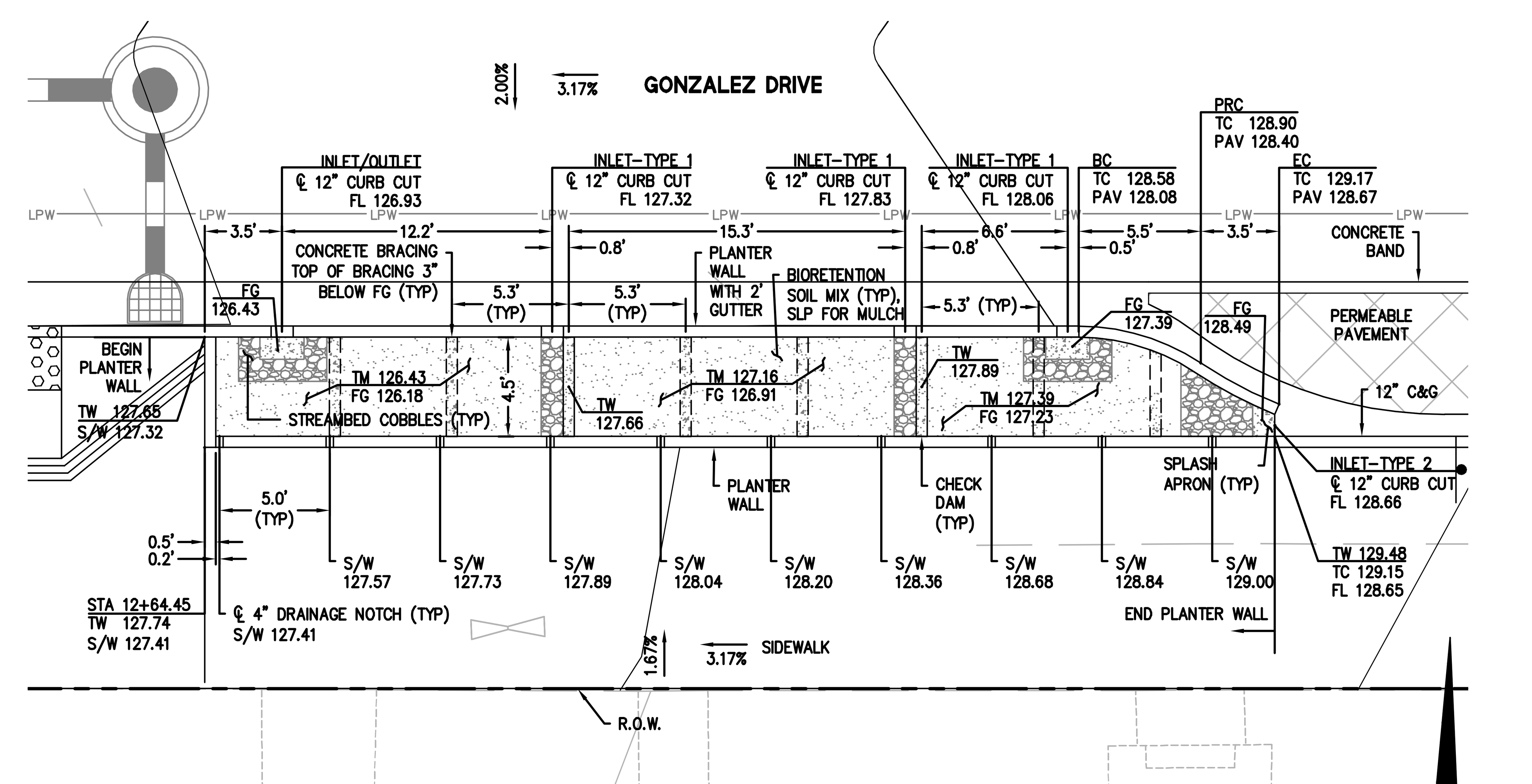

BIORETENTION PLANTER GONZO3
SCALE: 1"=5'

GRAPHIC SCALE
5 0 5 10

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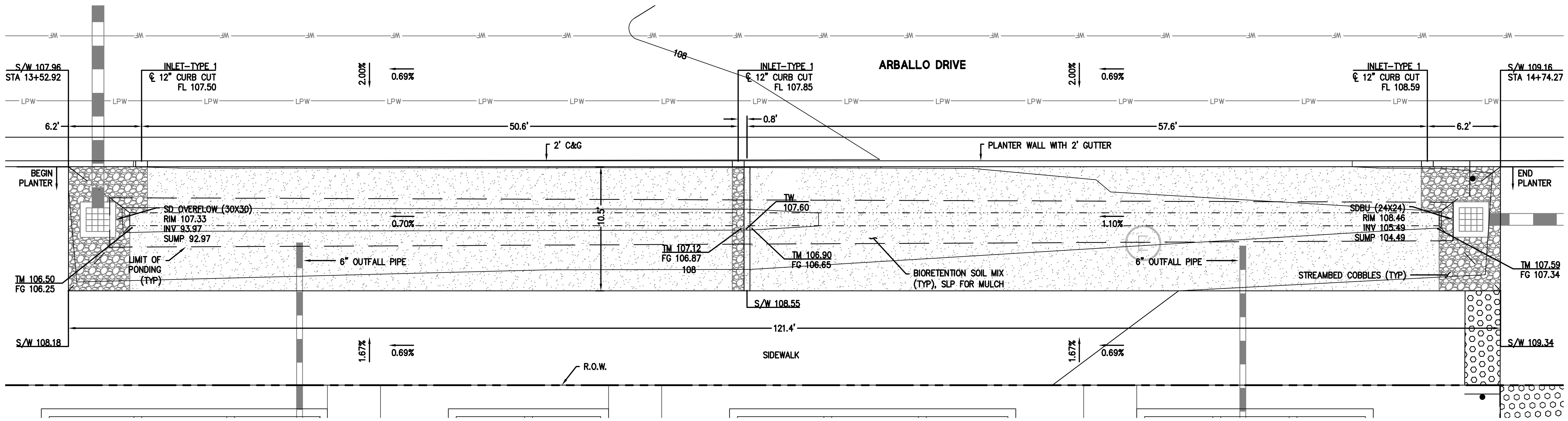

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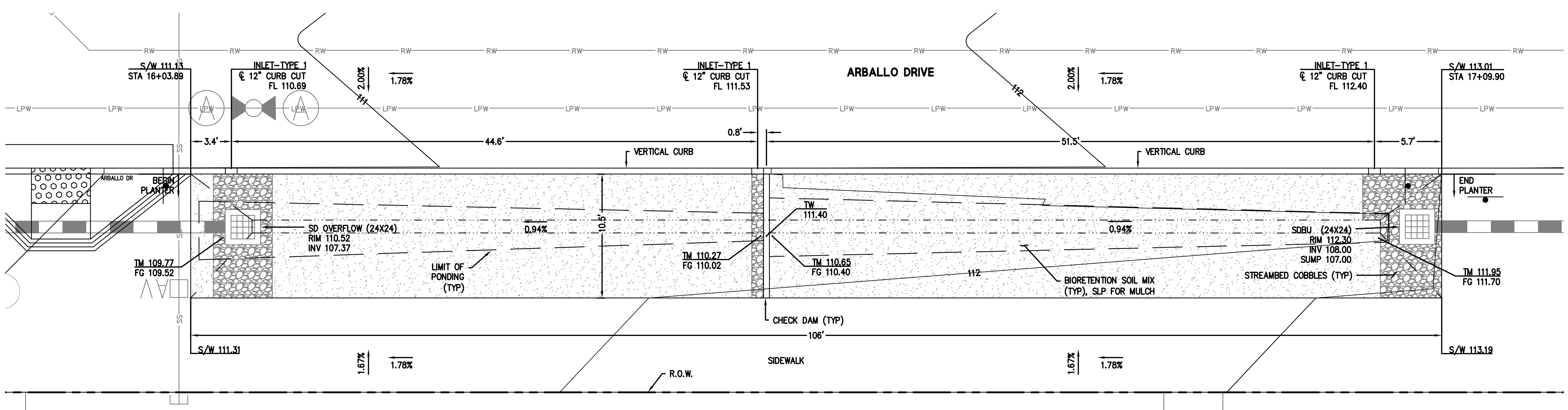

BIORETENTION BASIN ABL002
SCALE: 1"=5'

GRAPHIC SCALE
5 0 5 10

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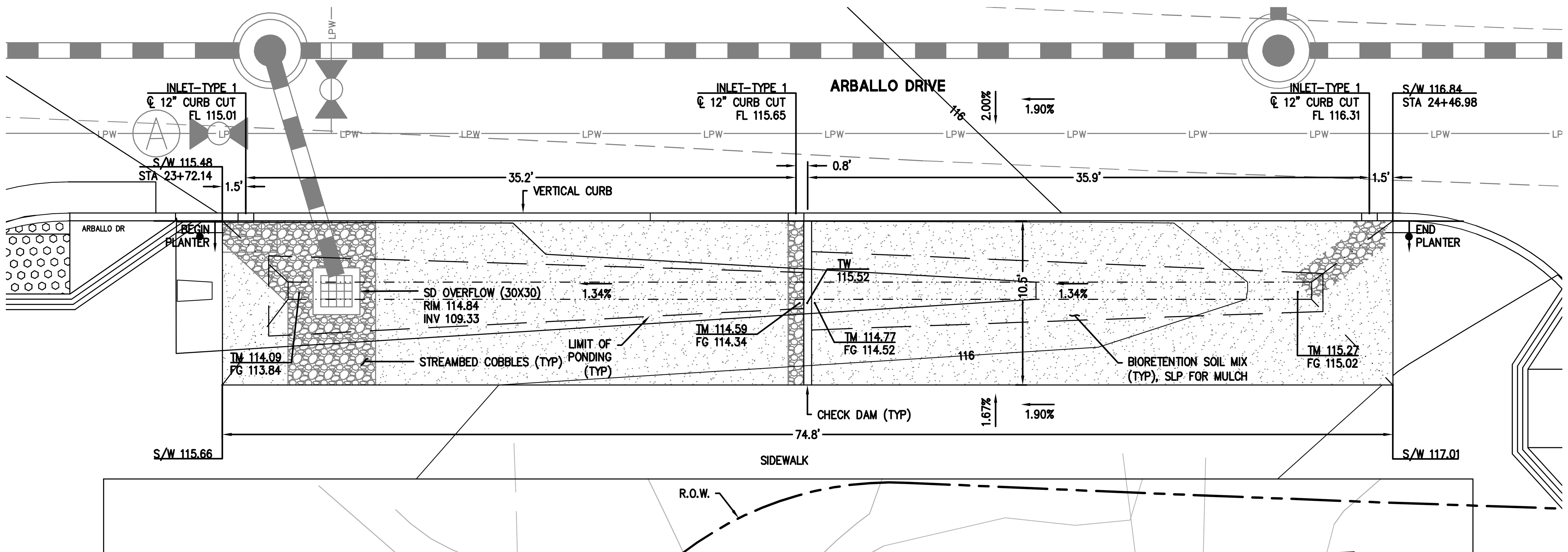

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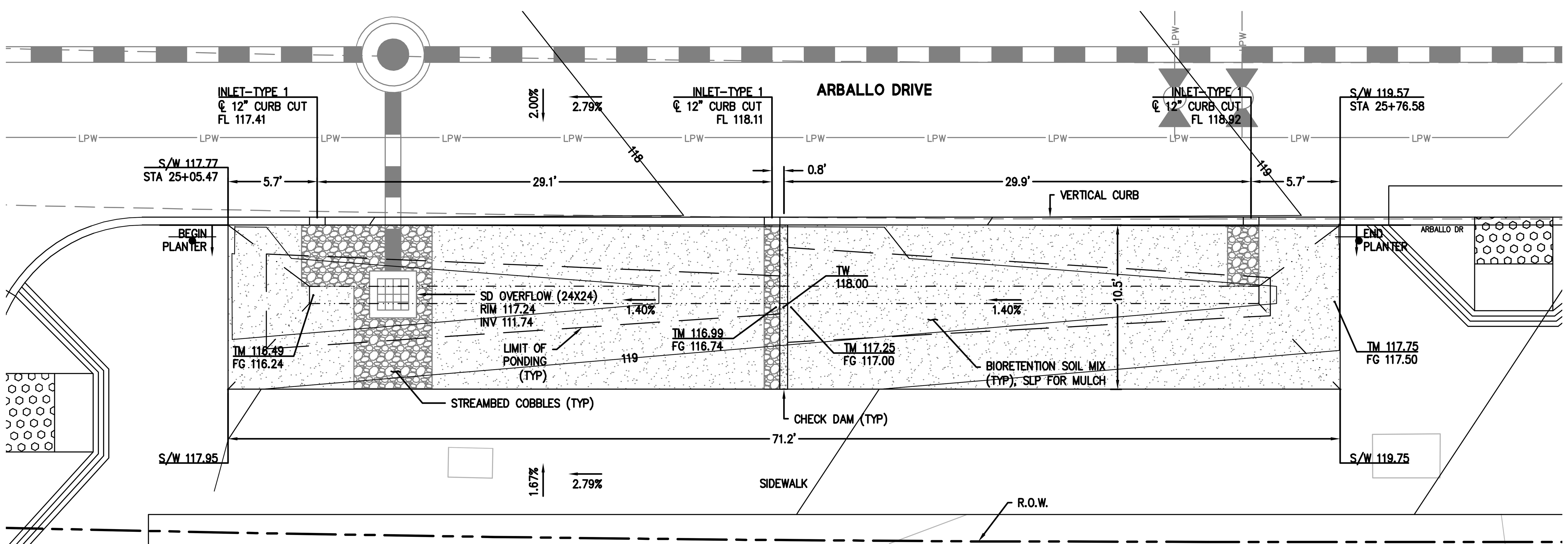

BIORETENTION BASIN ABL004
SCALE: 1"=5'

GRAPHIC SCALE
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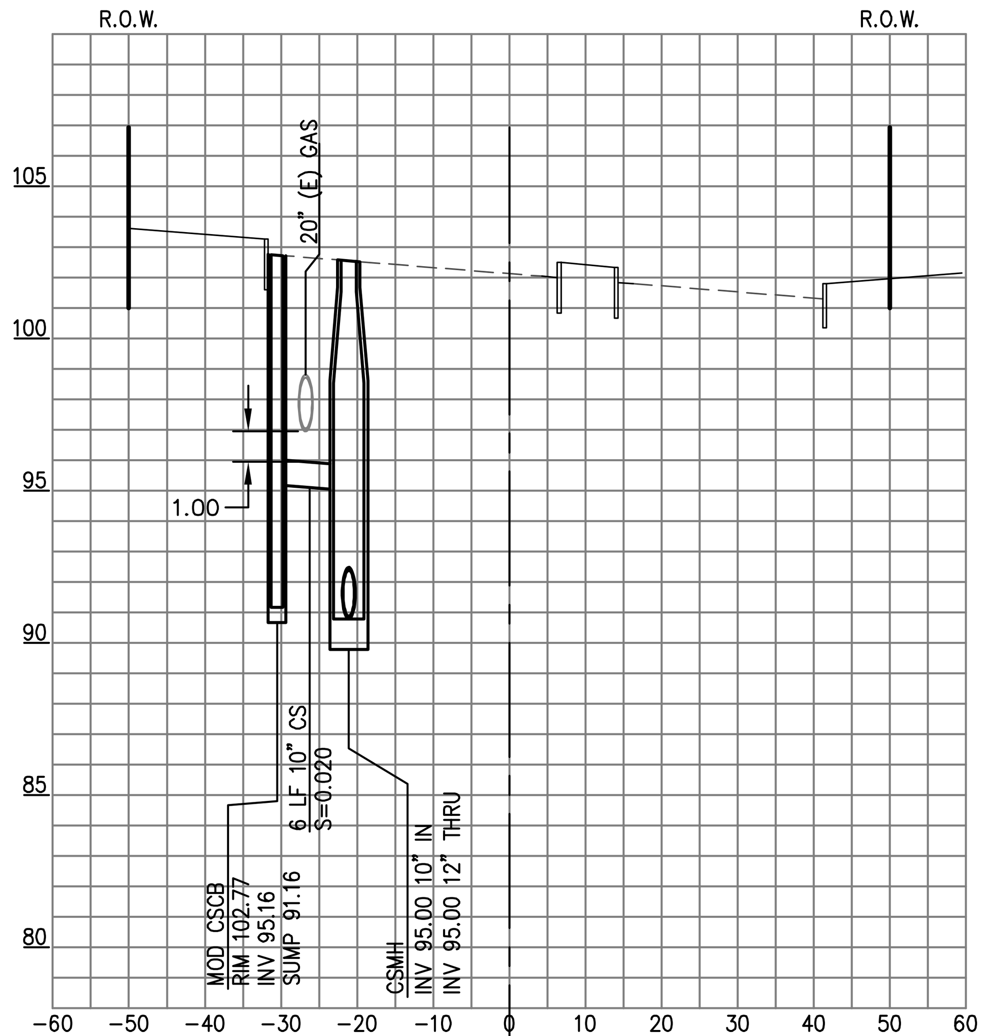

1 **SEWER MANHOLE - LMB02**

LAKE MERCED BOULEVARD (STA: 218+23.80)
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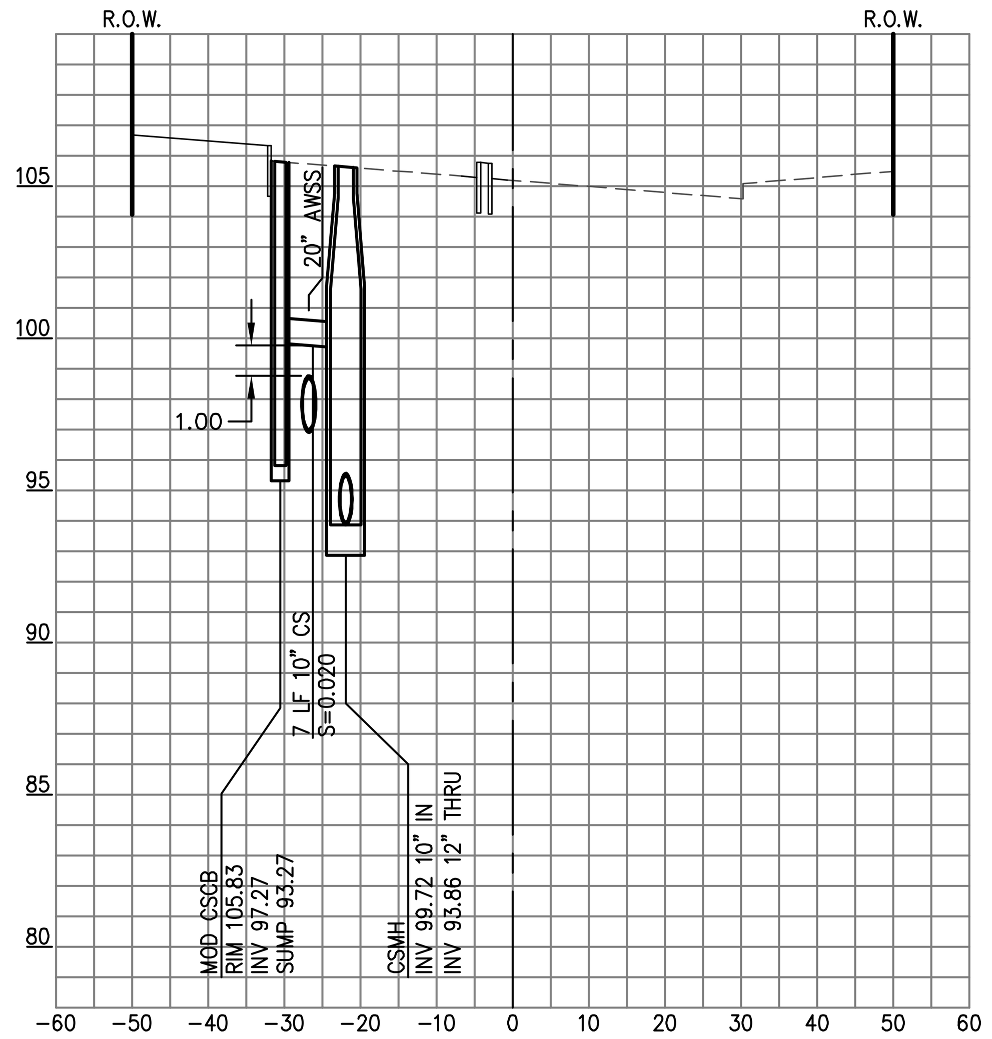
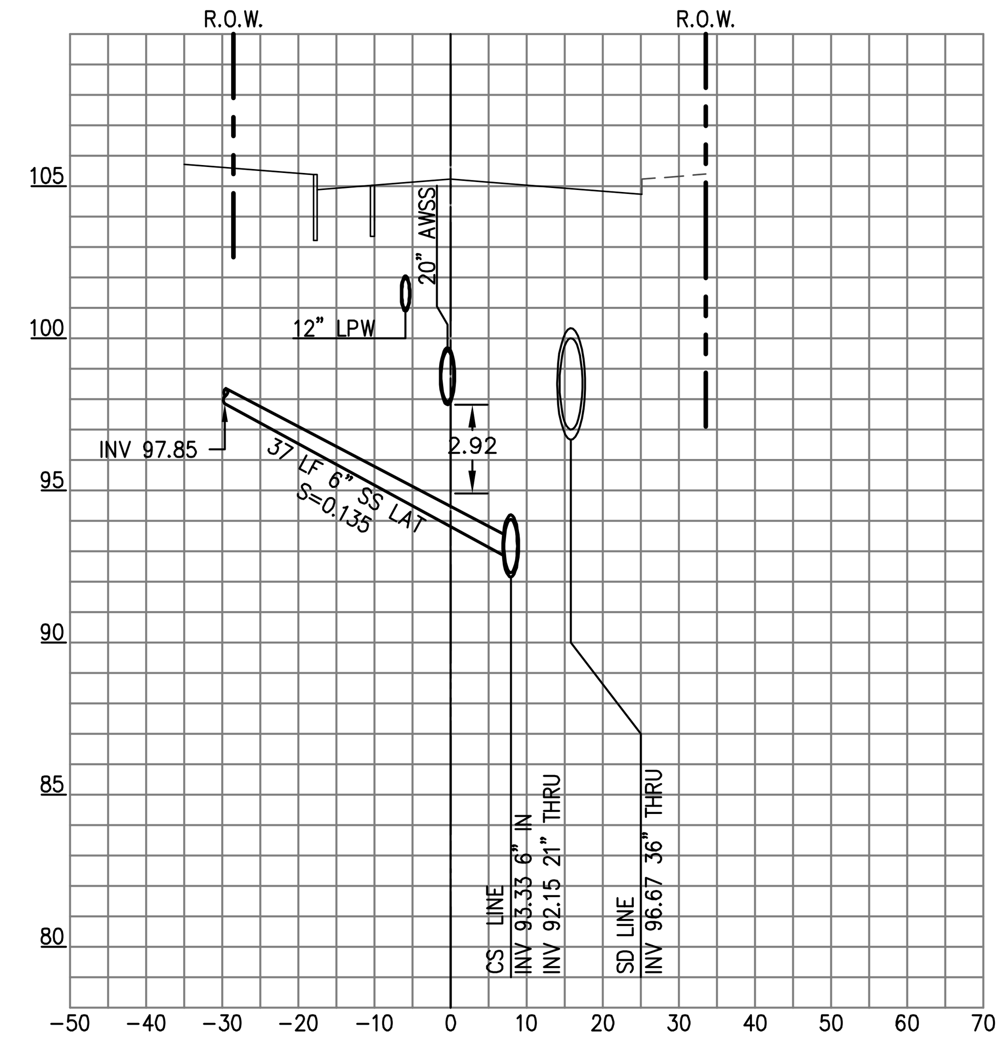
VERT: 1"=5'



2 **SEWER MANHOLE - LMB05**

LAKE MERCED BOULEVARD (STA: 218+23.80)
SCALE HORIZ: 1"=20'
VERT: 1"=5'



3 **SEWER LATERAL**

VIDAL DRIVE (STA: 97+84.22)
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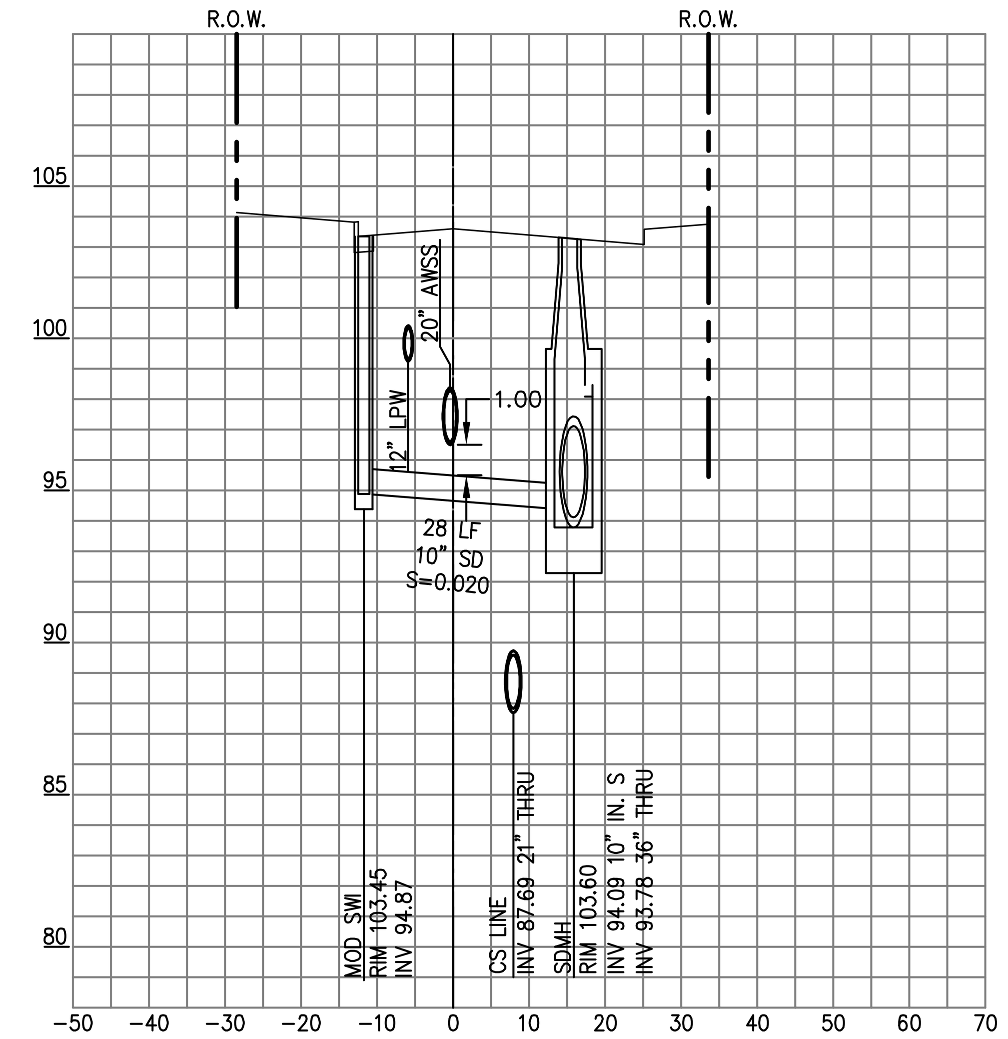

4 **STORM MANHOLE - VIDL03**

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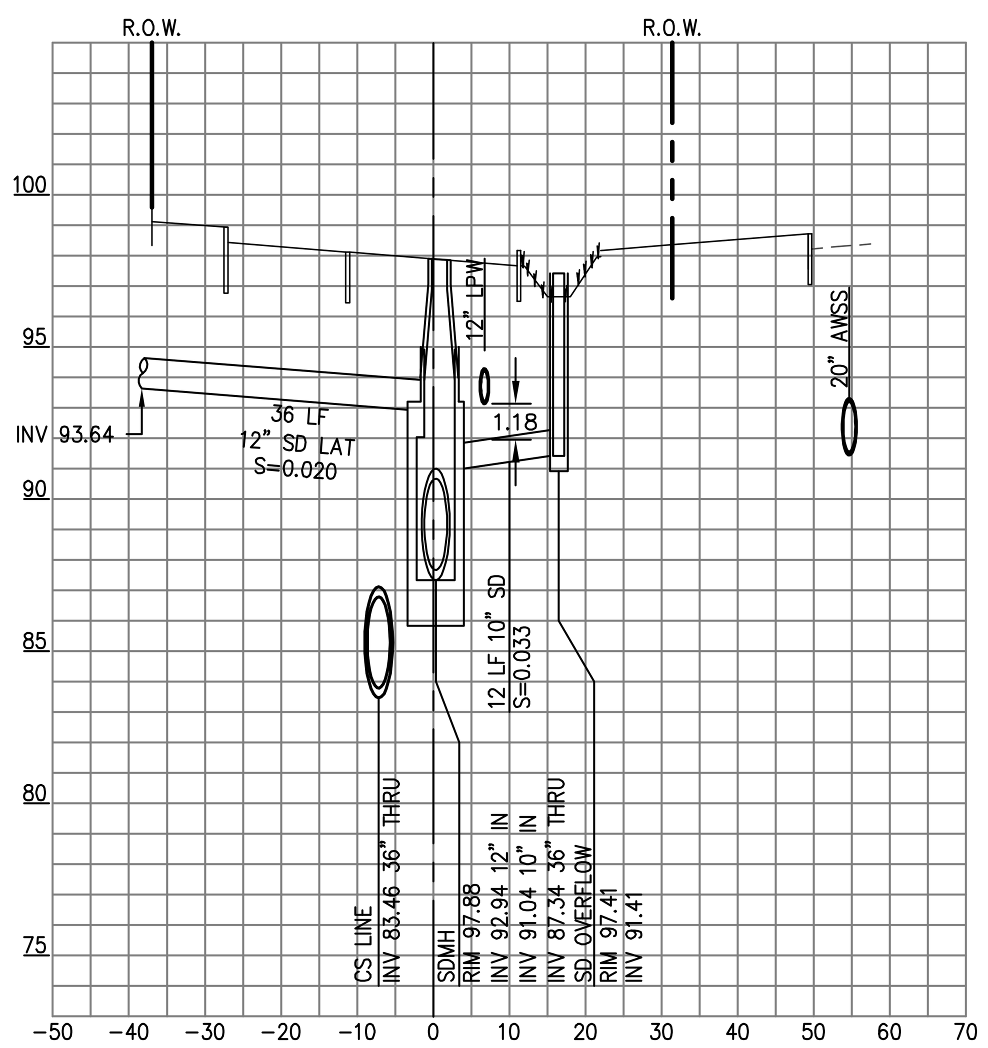
VERT: 1"=5'



5 **STORM MANHOLE - VIDL06**

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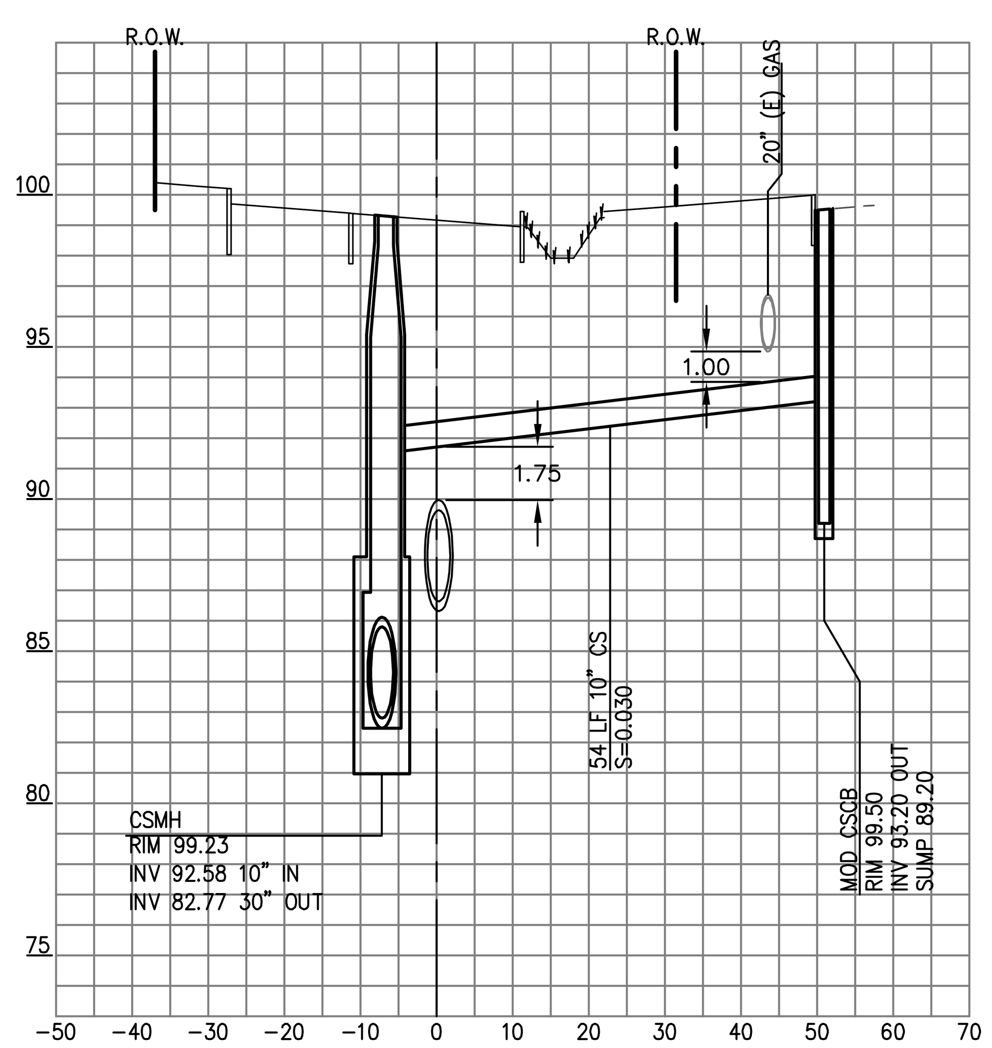

6 **SEWER MANHOLE - VIDL02**

VIDAL DRIVE (STA: 103+39.60)
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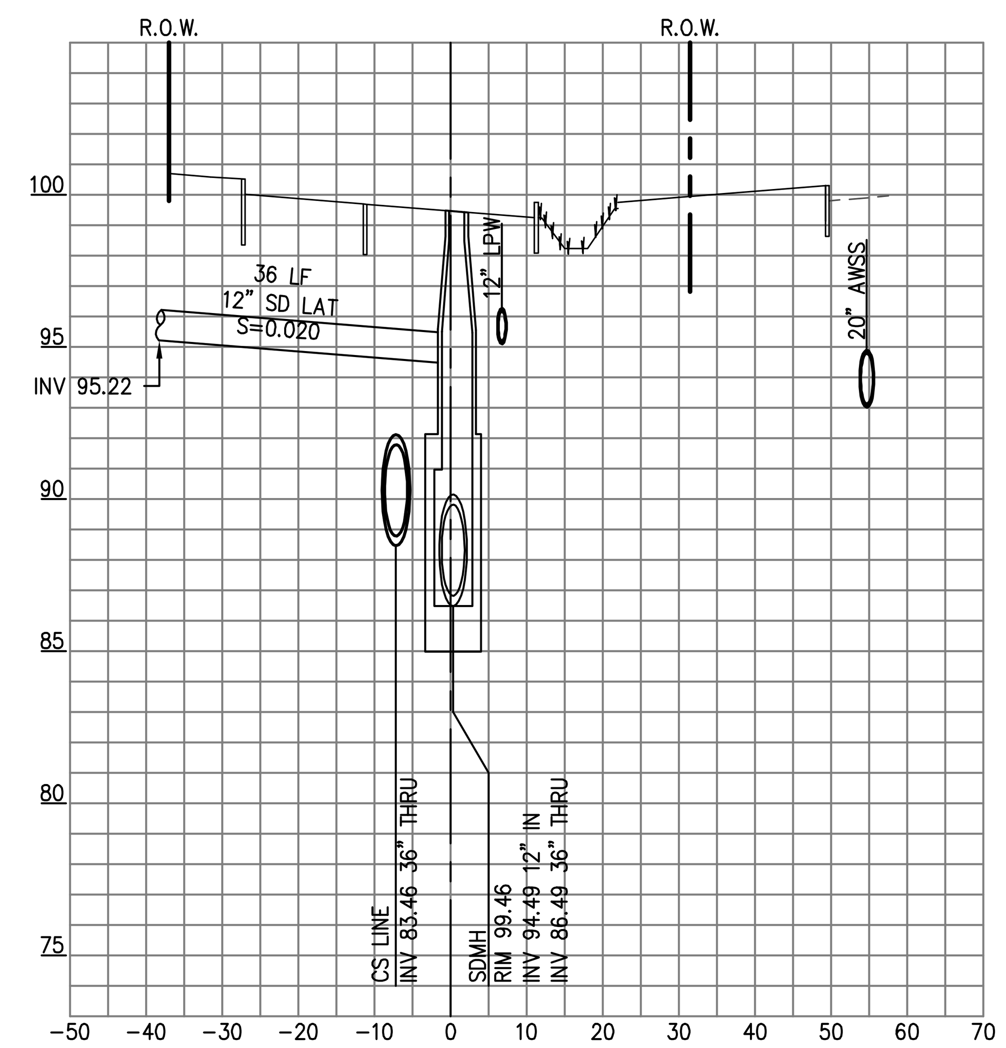
VERT: 1"=5'



7 **STORM MANHOLE - VIDL07**

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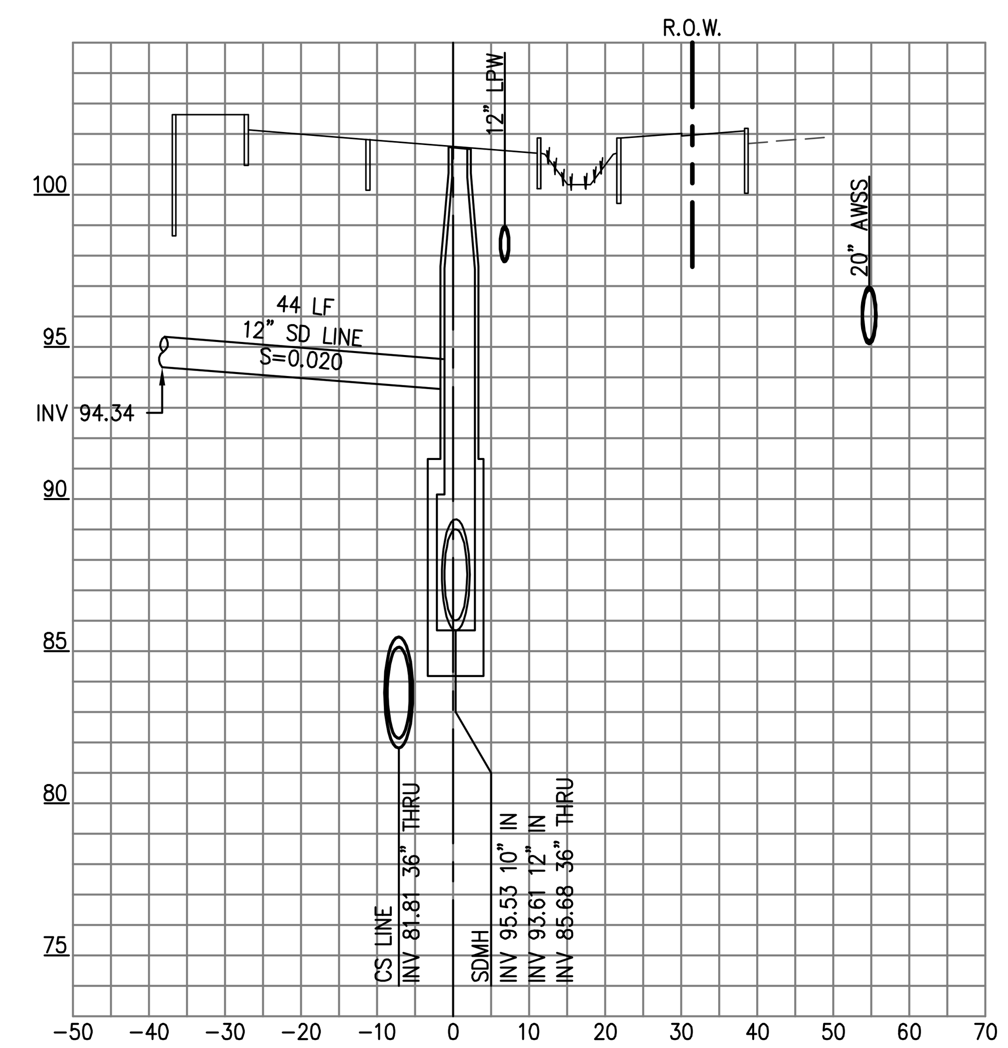
VERT: 1"=5'



8 **STORM MANHOLE - VIDL08**

VIDAL DRIVE (STA: 105+31.68)
SCALE HORIZ: 1"=20'
VERT: 1"=5'

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SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
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Job No: 20090086

Drawing Number:
C3.43

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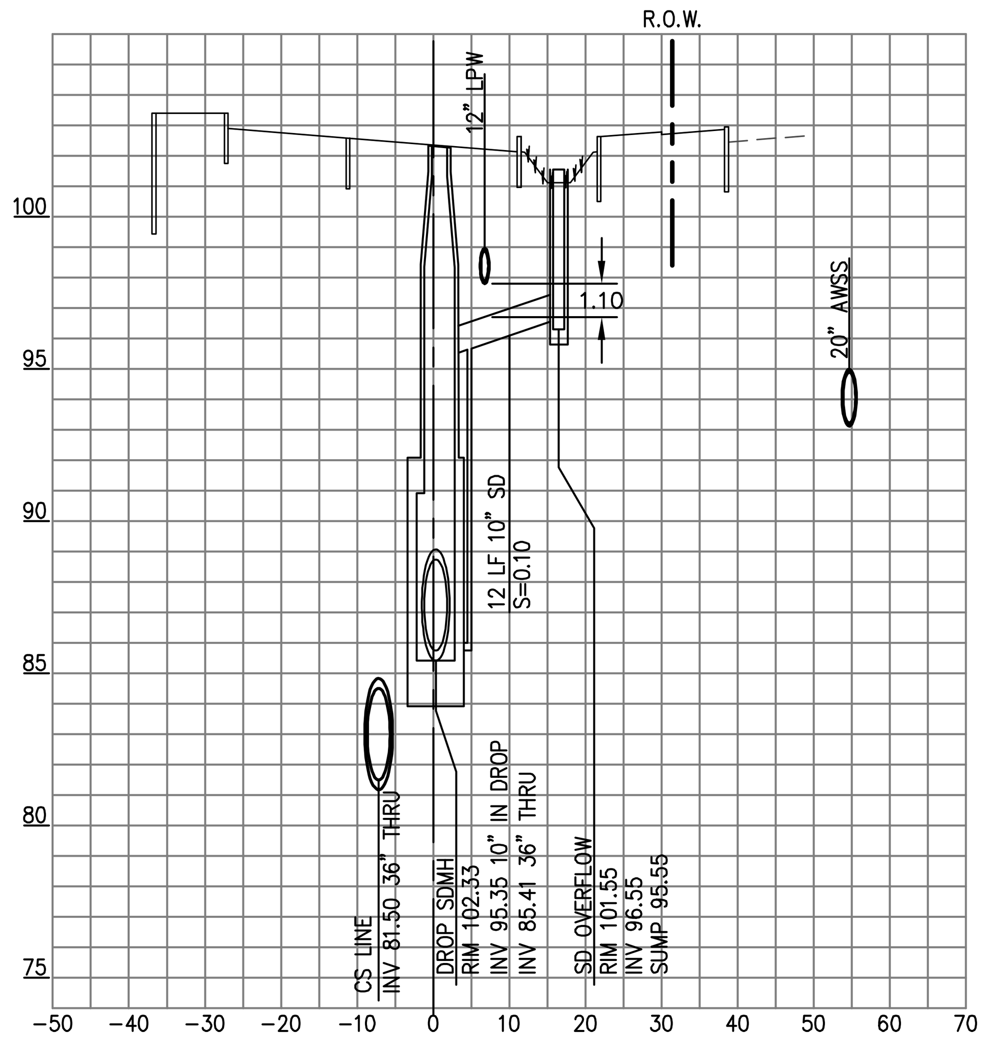

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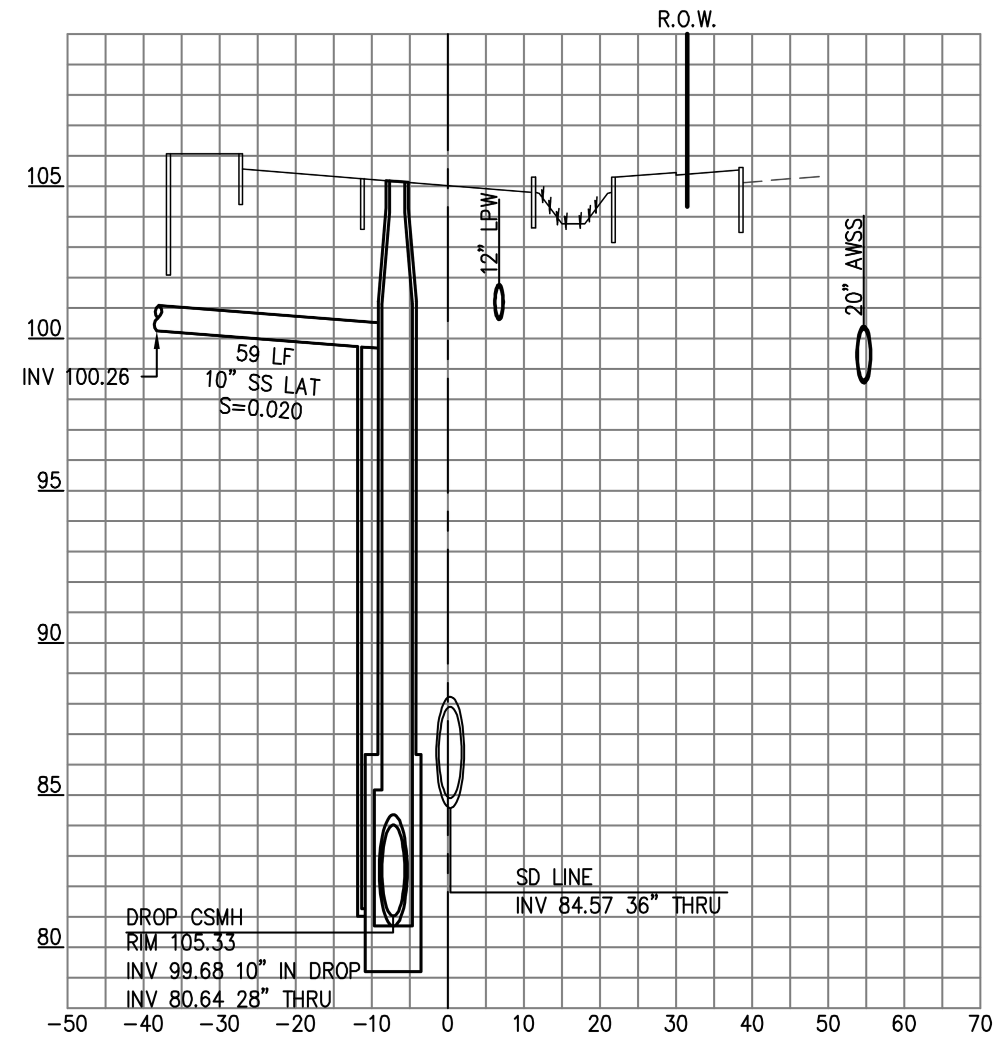

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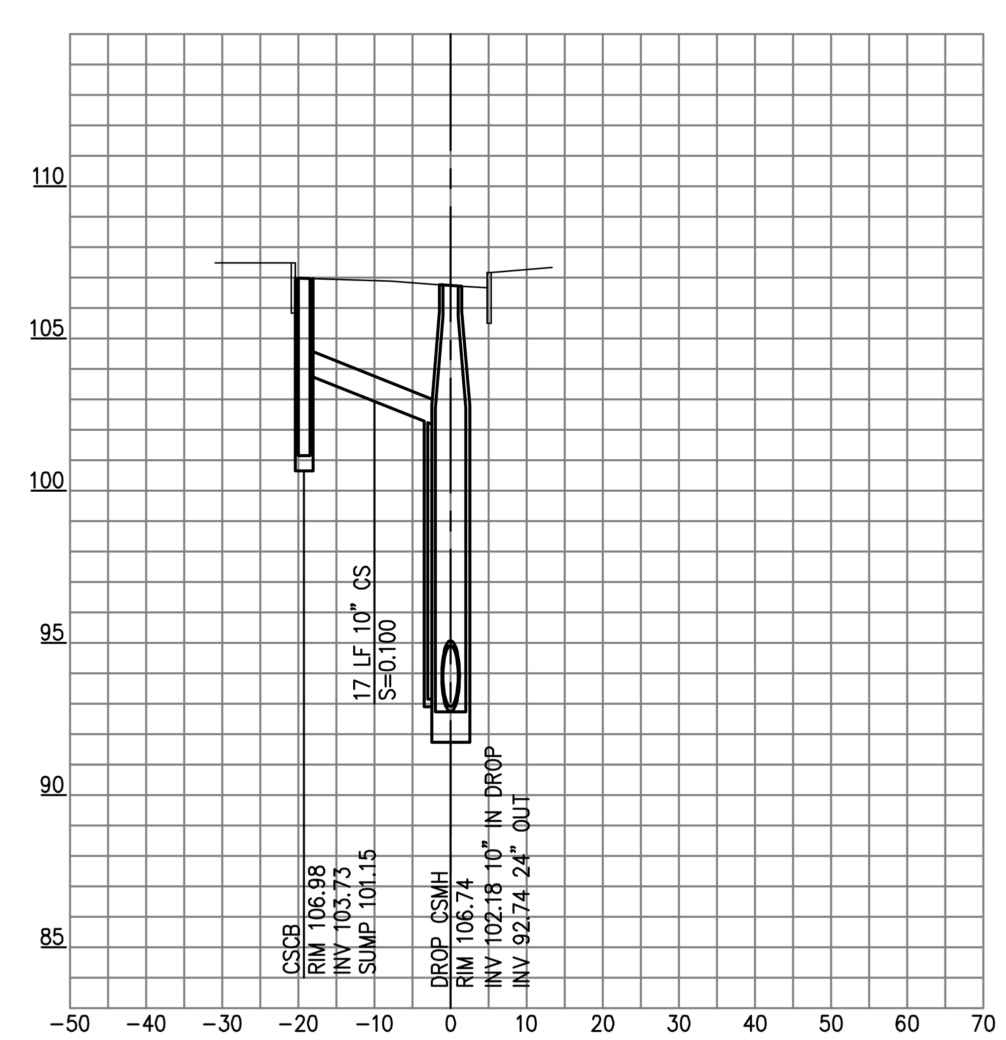
VERT: 1"=5'



11 **SEWER MANHOLE - VIDL05**
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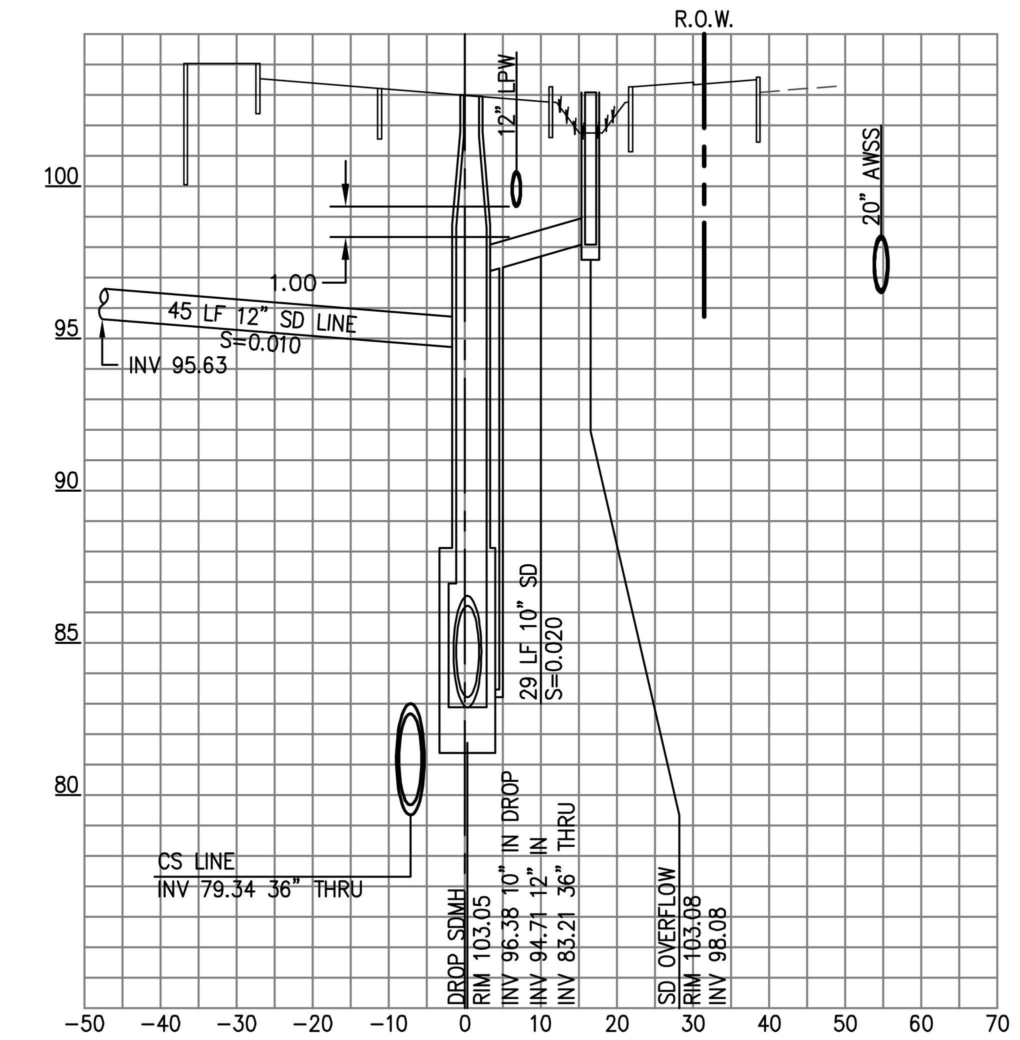
VERT: 1"=5'



12 **STORM MANHOLE - VIDL11**
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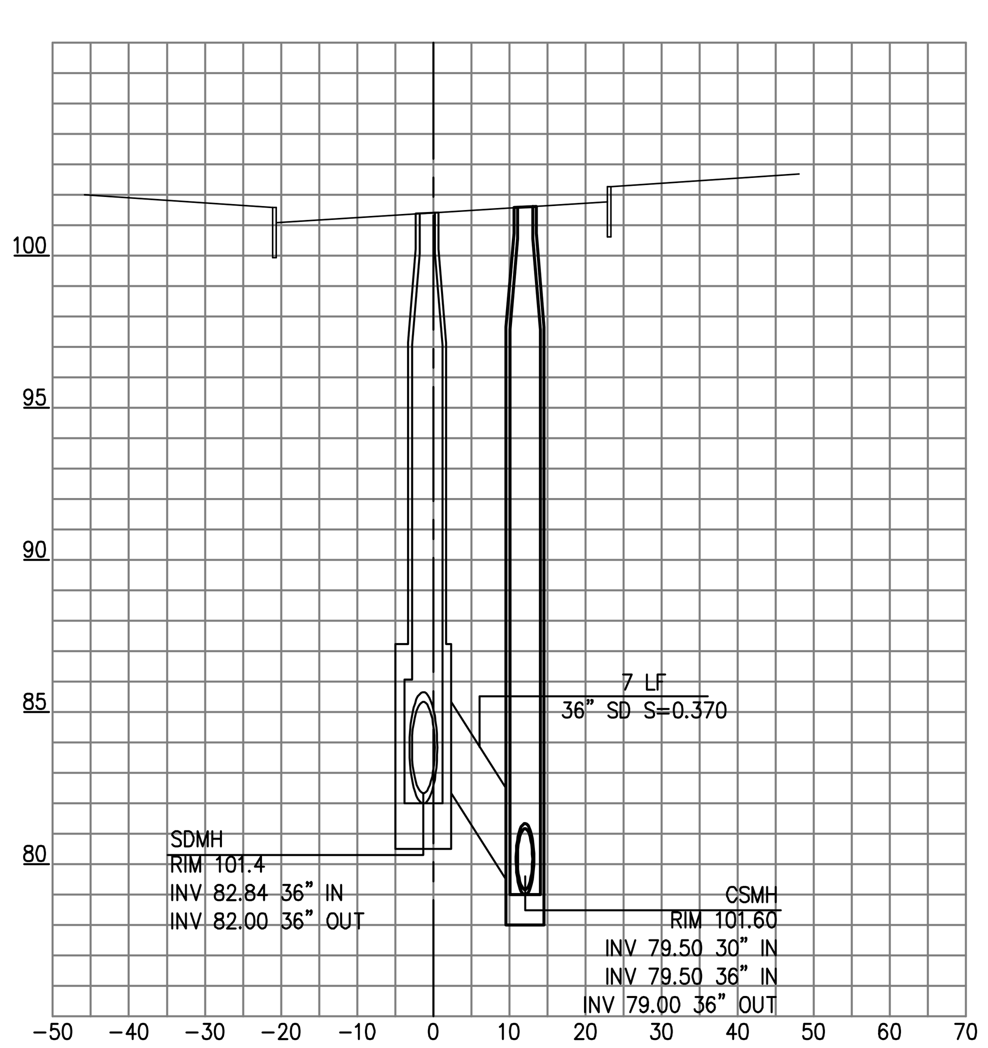
VERT: 1"=5'



13 **STORM MANHOLE - VIDL12**
VIDAL DRIVE (STA: 110+19.86)
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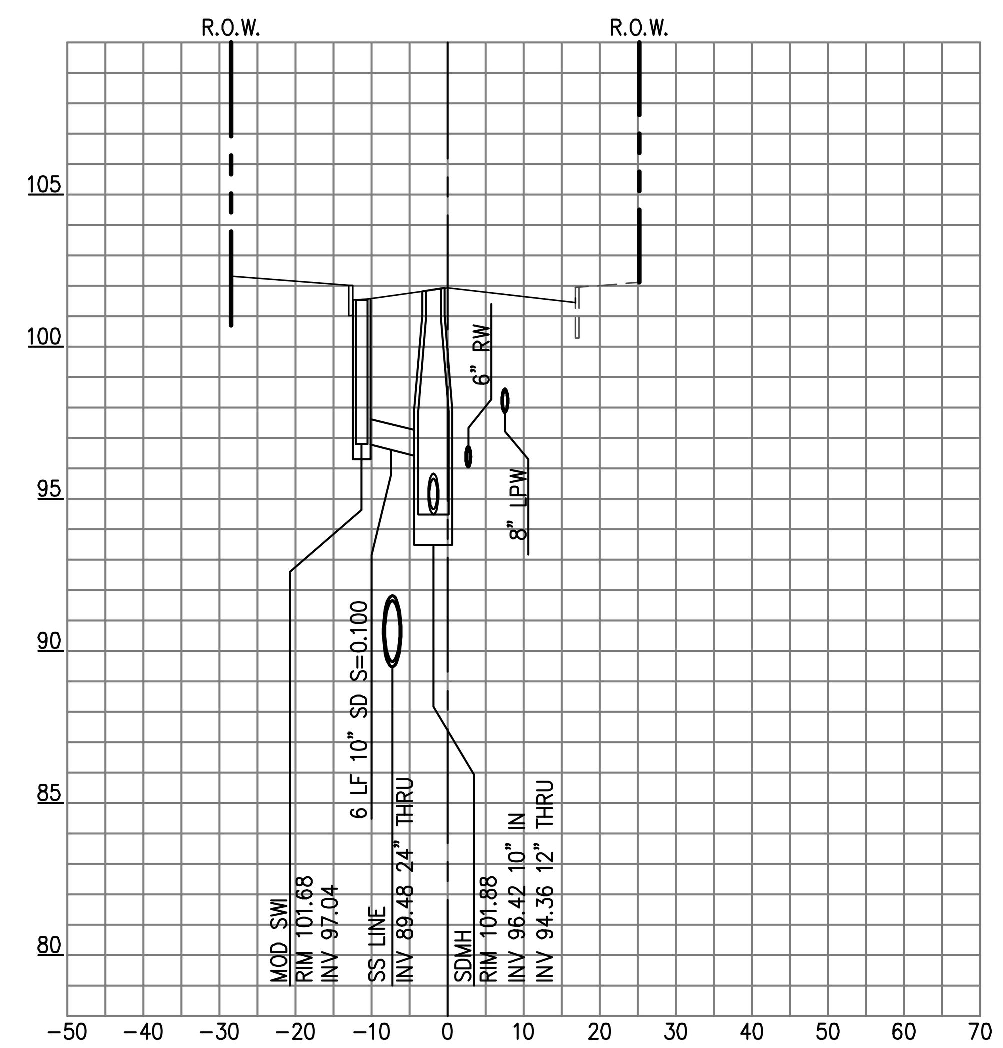
VERT: 1"=5'



14 **STORM MANHOLE - AVD001**
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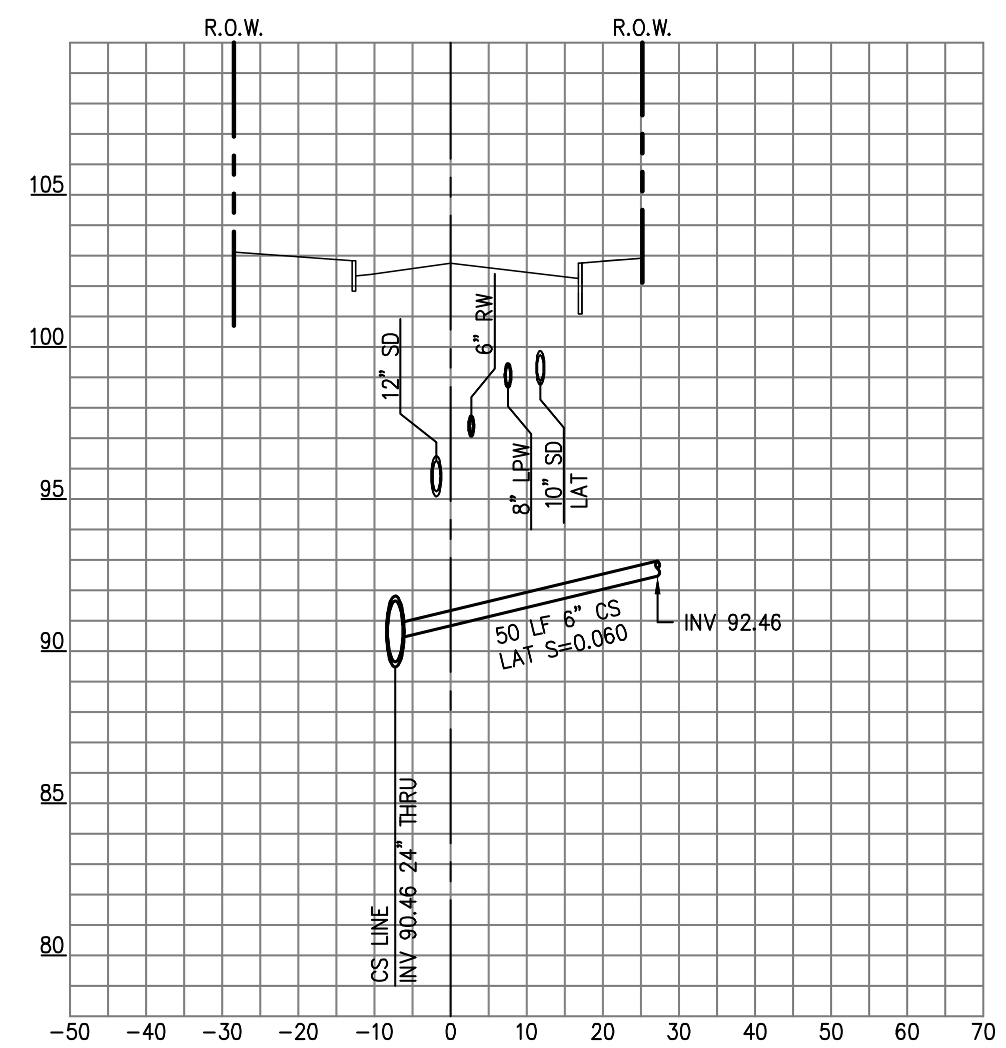

15 **SEWER LATERAL**
ACEVEDO AVENUE (STA: 2+85.00)
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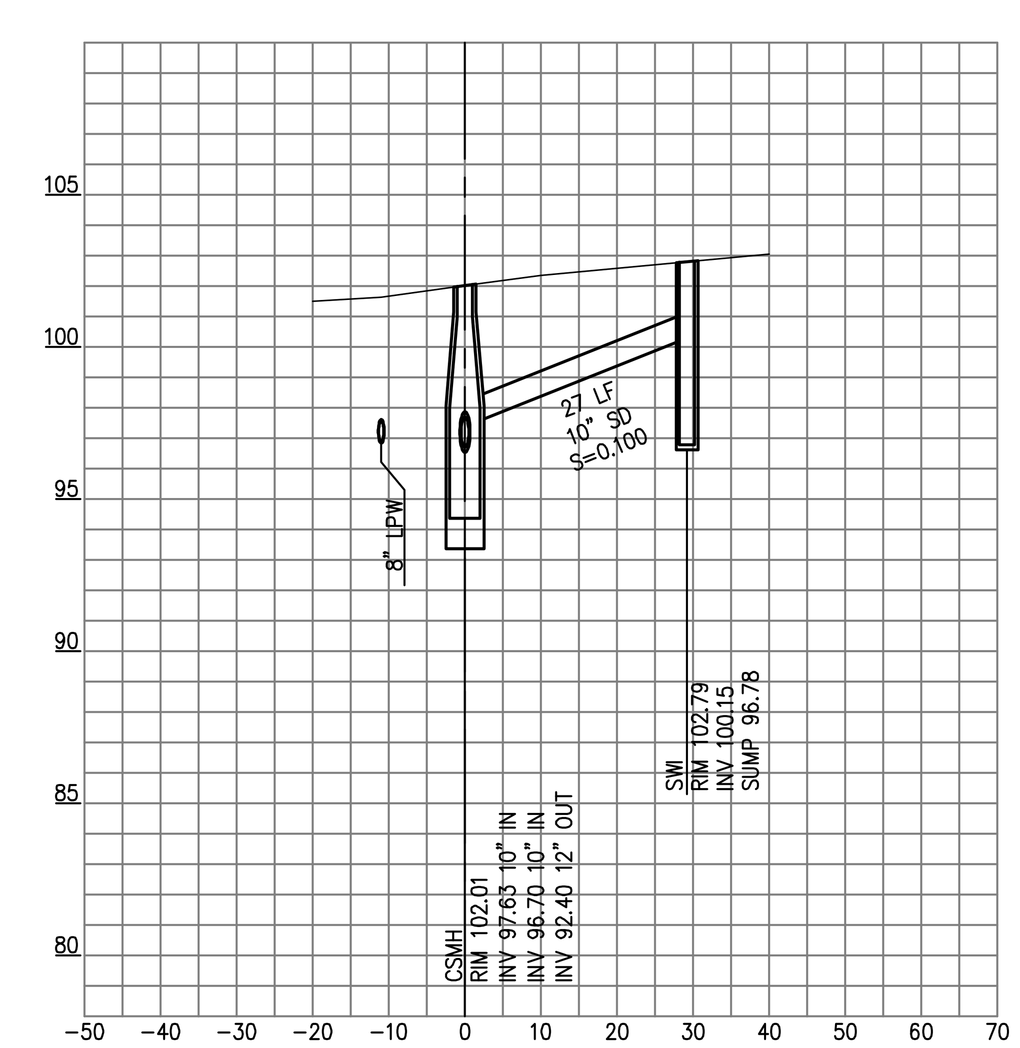
VERT: 1"=5'



16 **SEWER MANHOLE - AVD003**
ACEVEDO AVENUE (STA: 2+69.65)
SCALE HORIZ: 1"=20'
VERT: 1"=5'

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No.	Revisions

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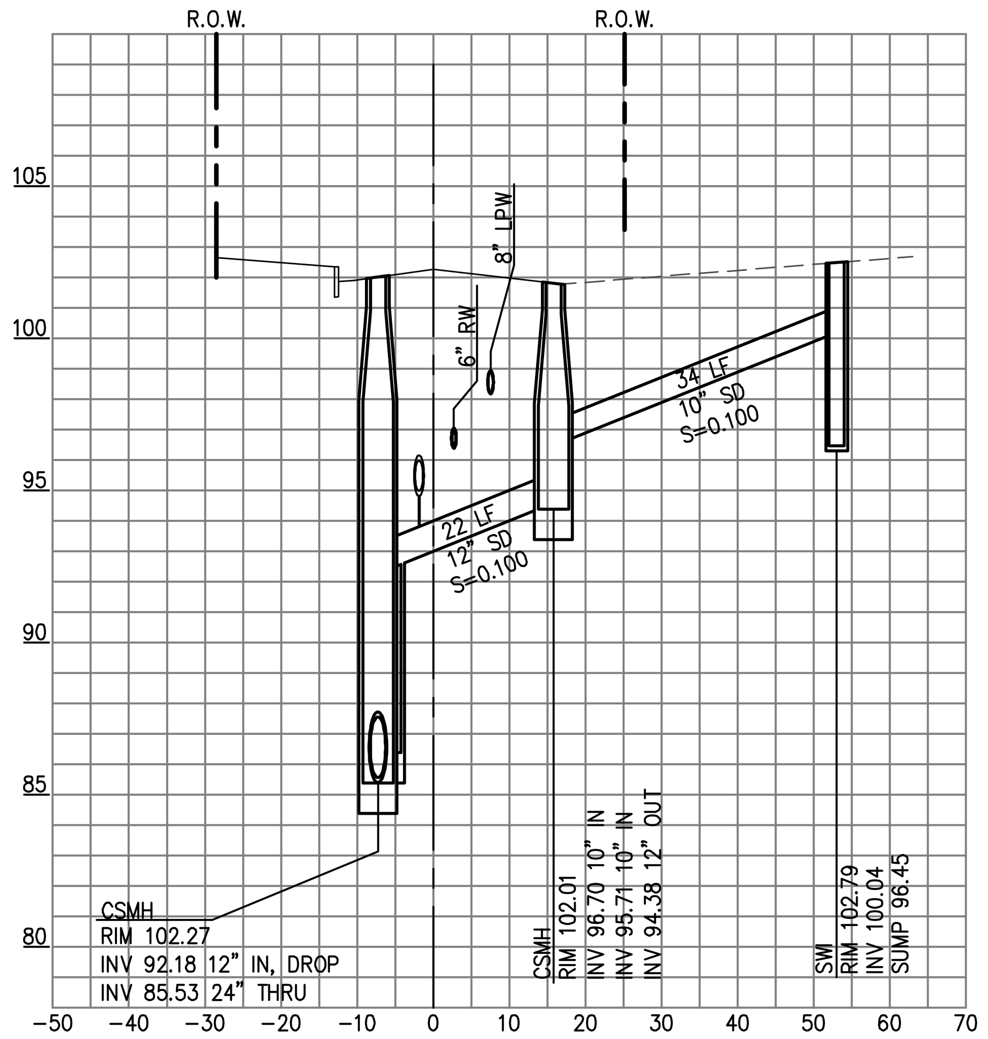

17 **SEWER MANHOLE - AVD003**
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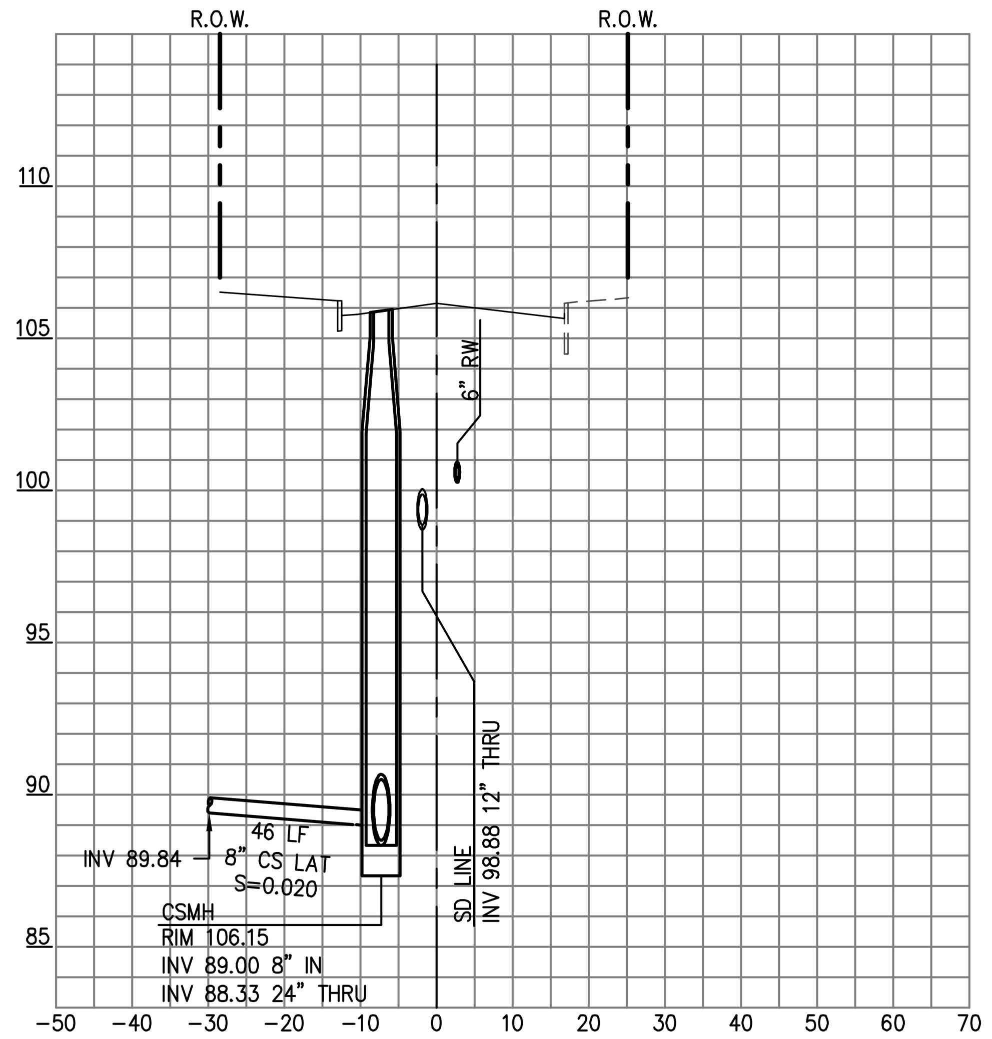

18 **SEWER MANHOLE - AVD002**
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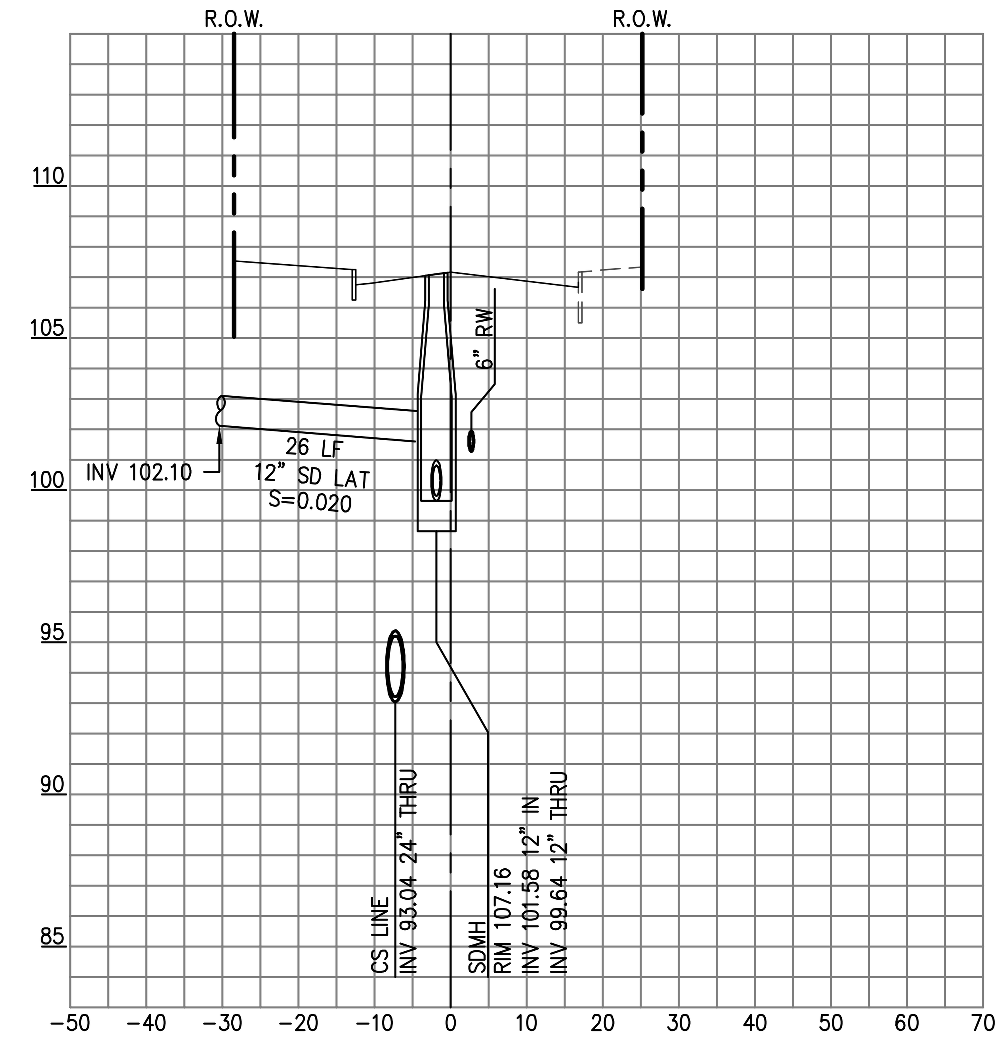

19 **STORM MANHOLE - AVD002**
ACEVEDO AVENUE (STA: 4+36.39)
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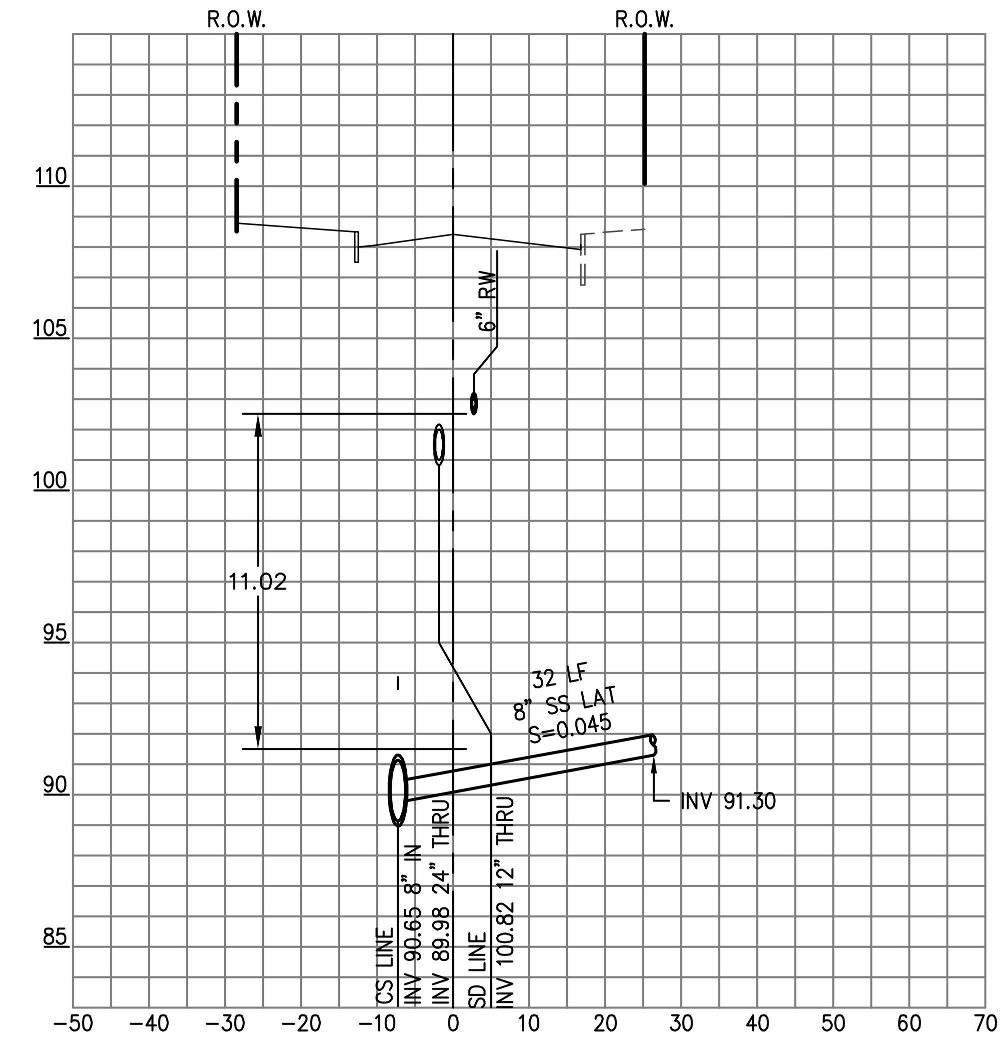

20 **SEWER LATERAL**
ACEVEDO AVENUE (STA: 4+77.31)
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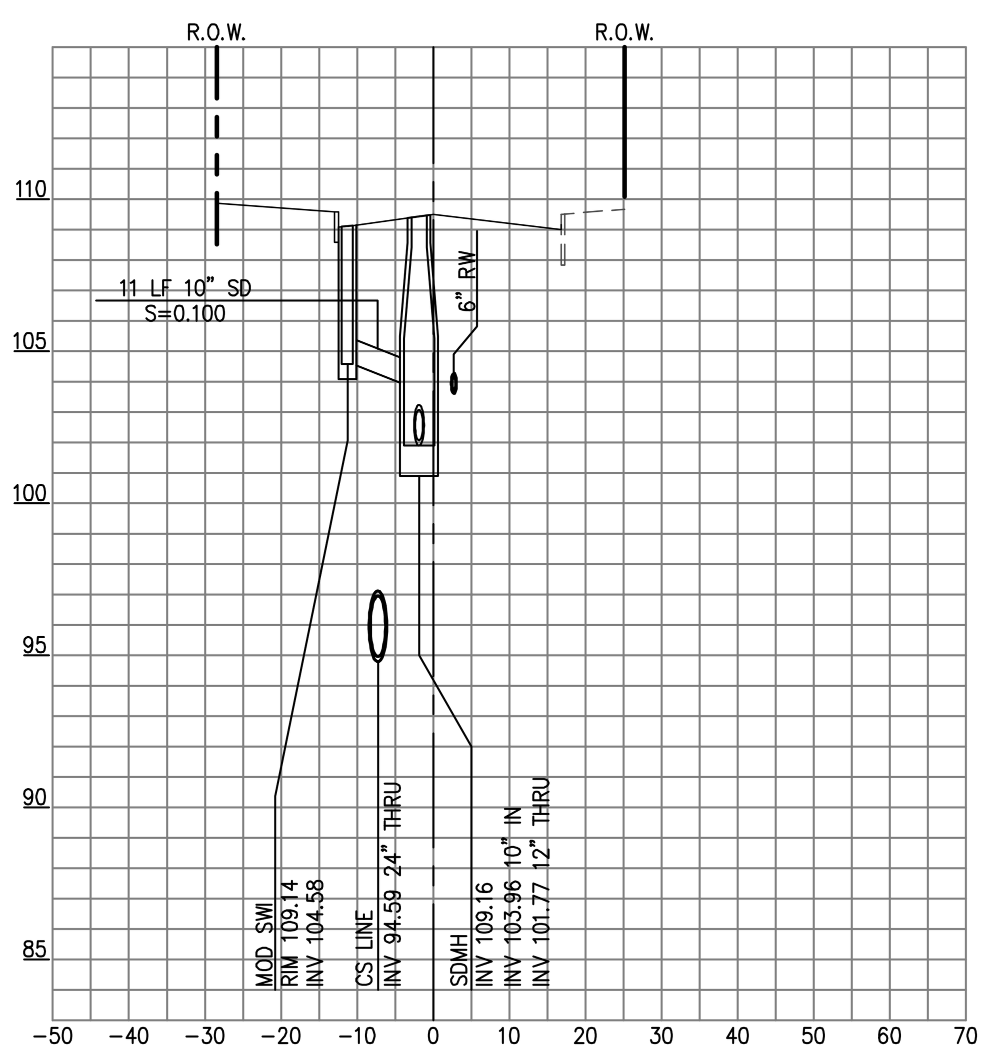
VERT: 1"=5'



21 **STORM MANHOLE - AVD003**
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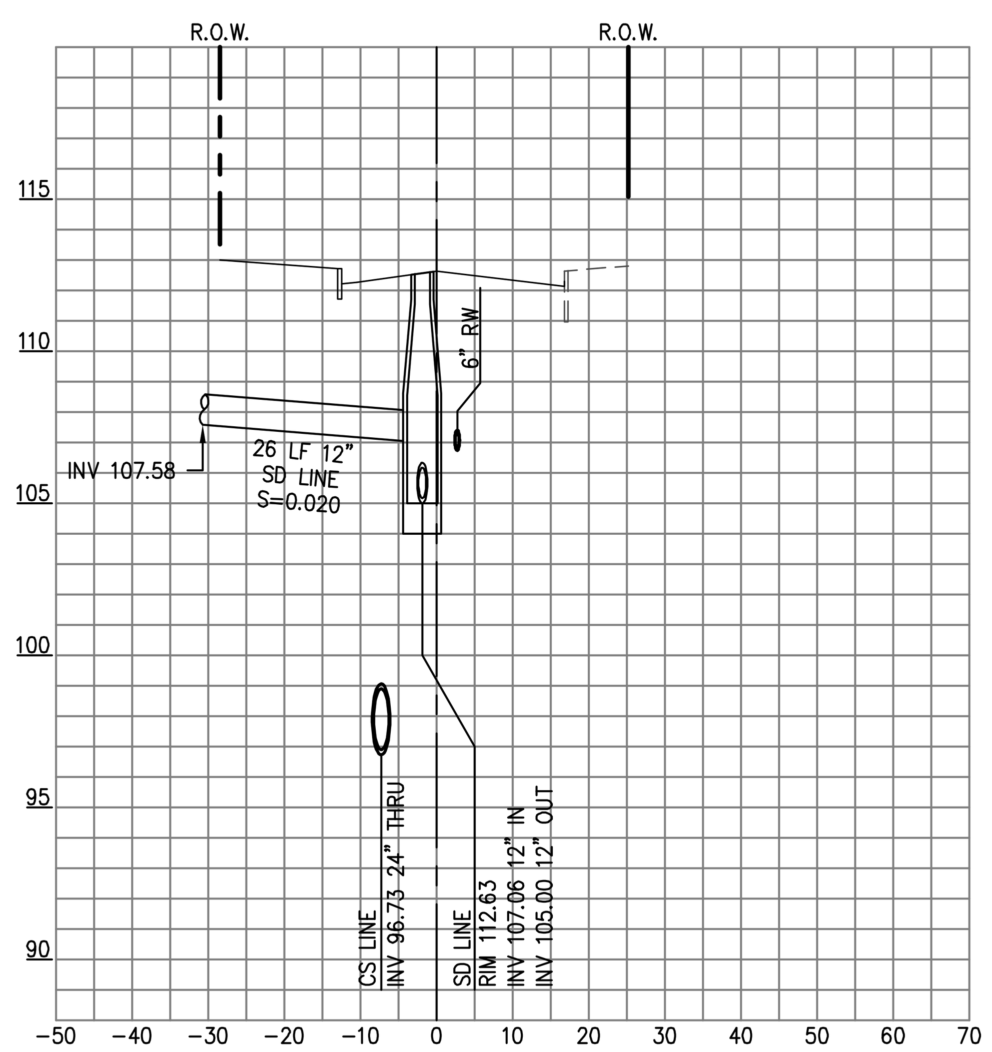

22 **STORM MANHOLE - AVD004**
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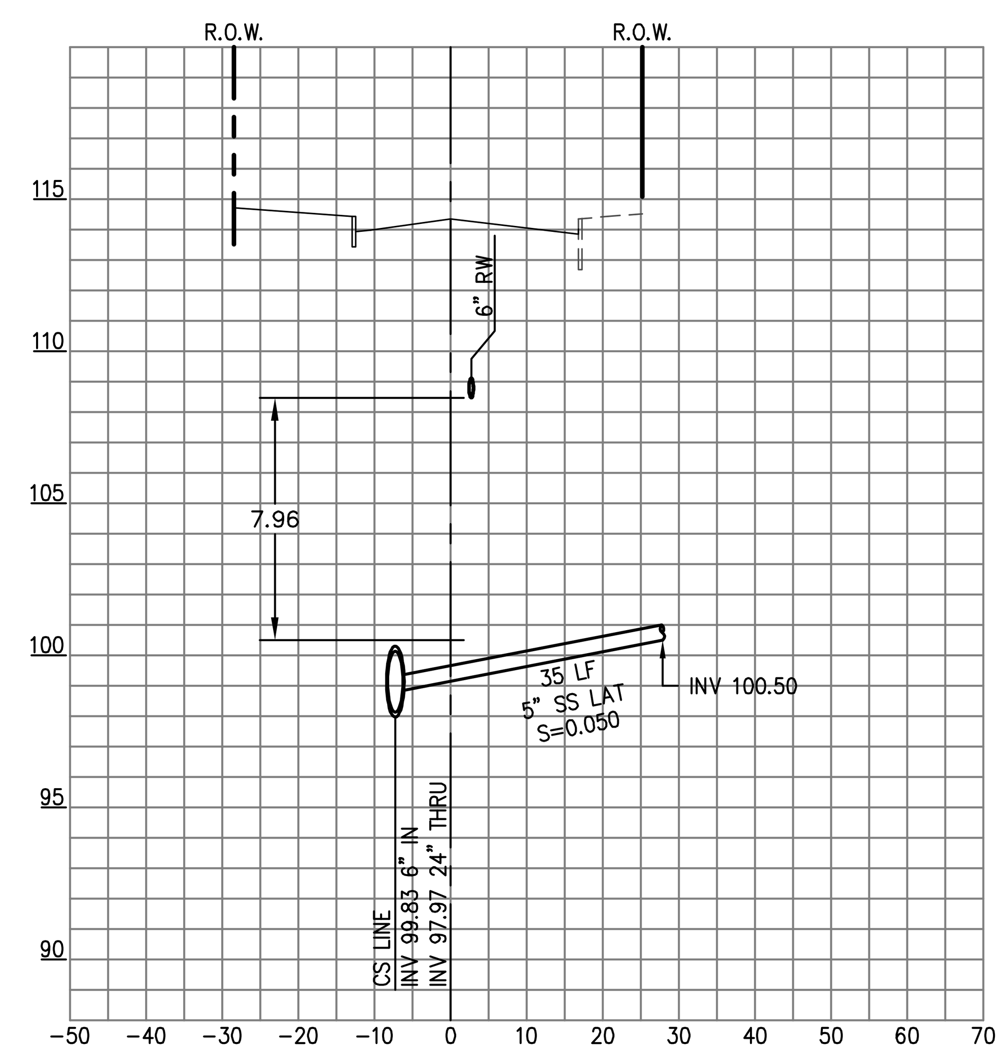

23 **SEWER LATERAL**
ACEVEDO AVENUE (STA: 6+83.25)
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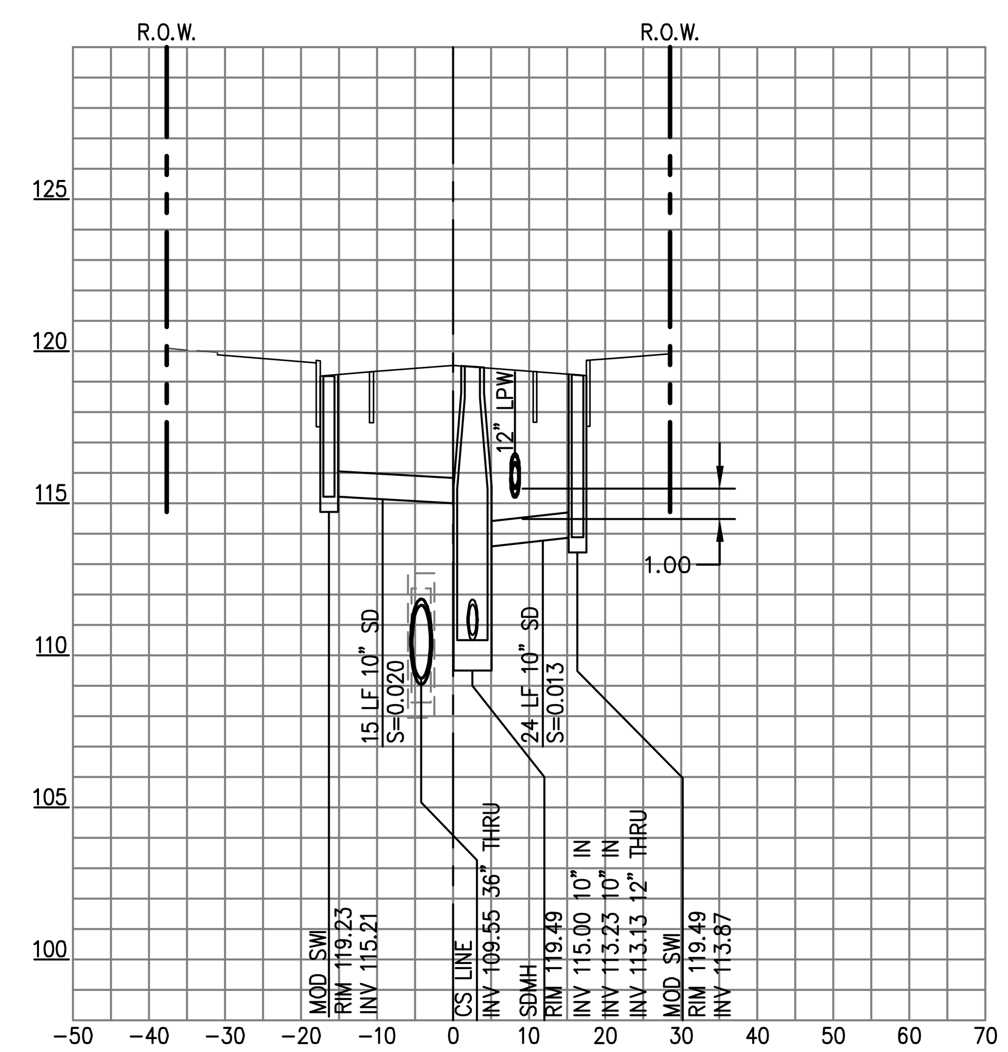

24 **STORM MANHOLE - SERR01**
SERRANO DRIVE (STA: 10+38.48)
SCALE HORIZ: 1"=20'
VERT: 1"=5'

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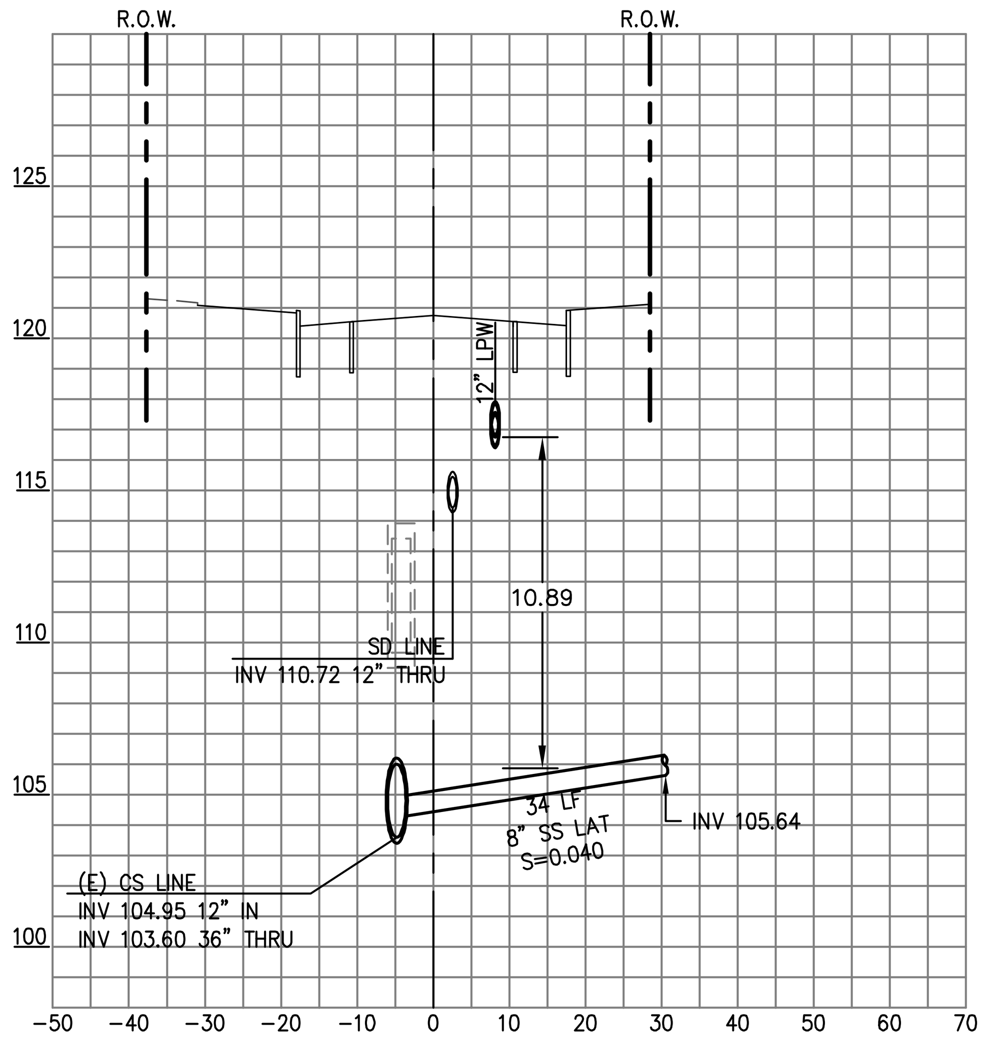
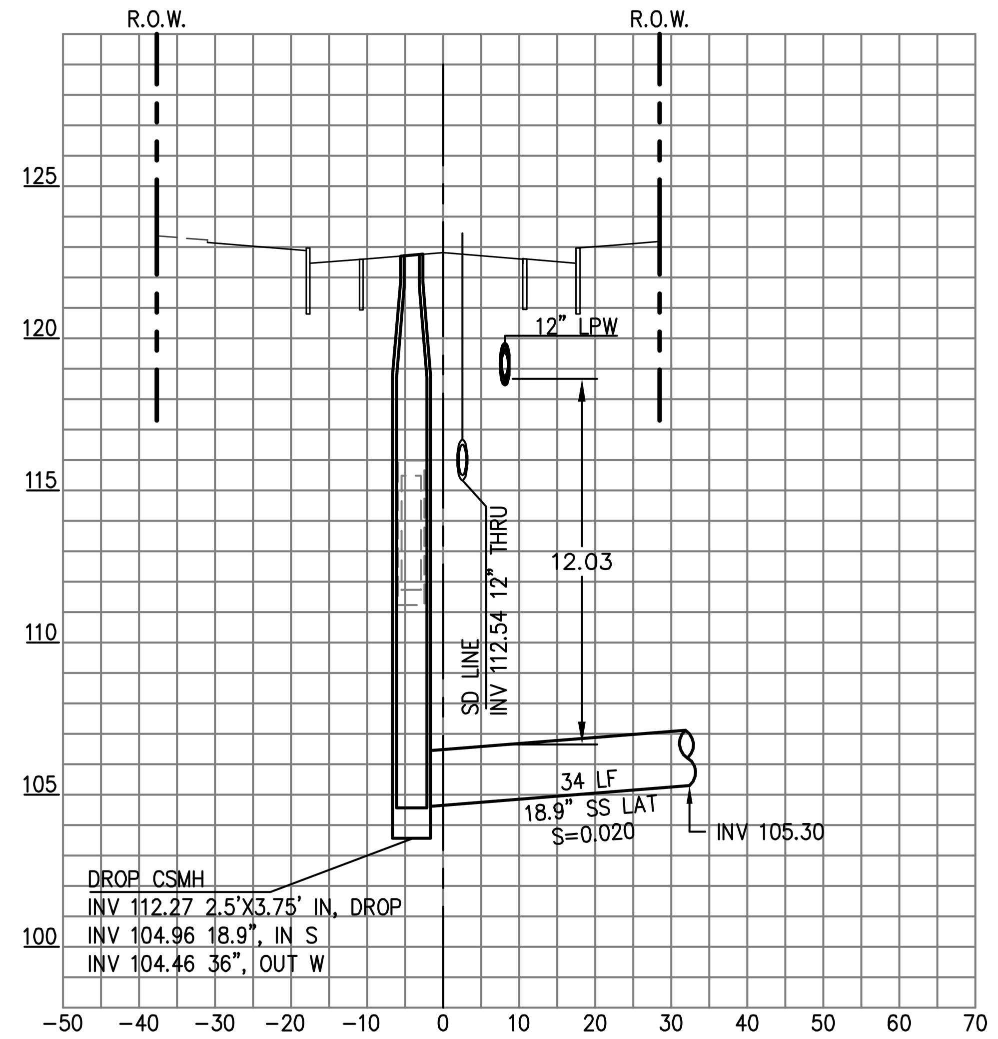


(25) SEWER LATERAL

SERRANO DRIVE (STA: 11+37.54)
SCALE HORIZ: 1"=20'
VERT: 1"=5'



(26) SEWER MANHOLE - SERR01

SERRANO DRIVE (STA: 12+23.94)
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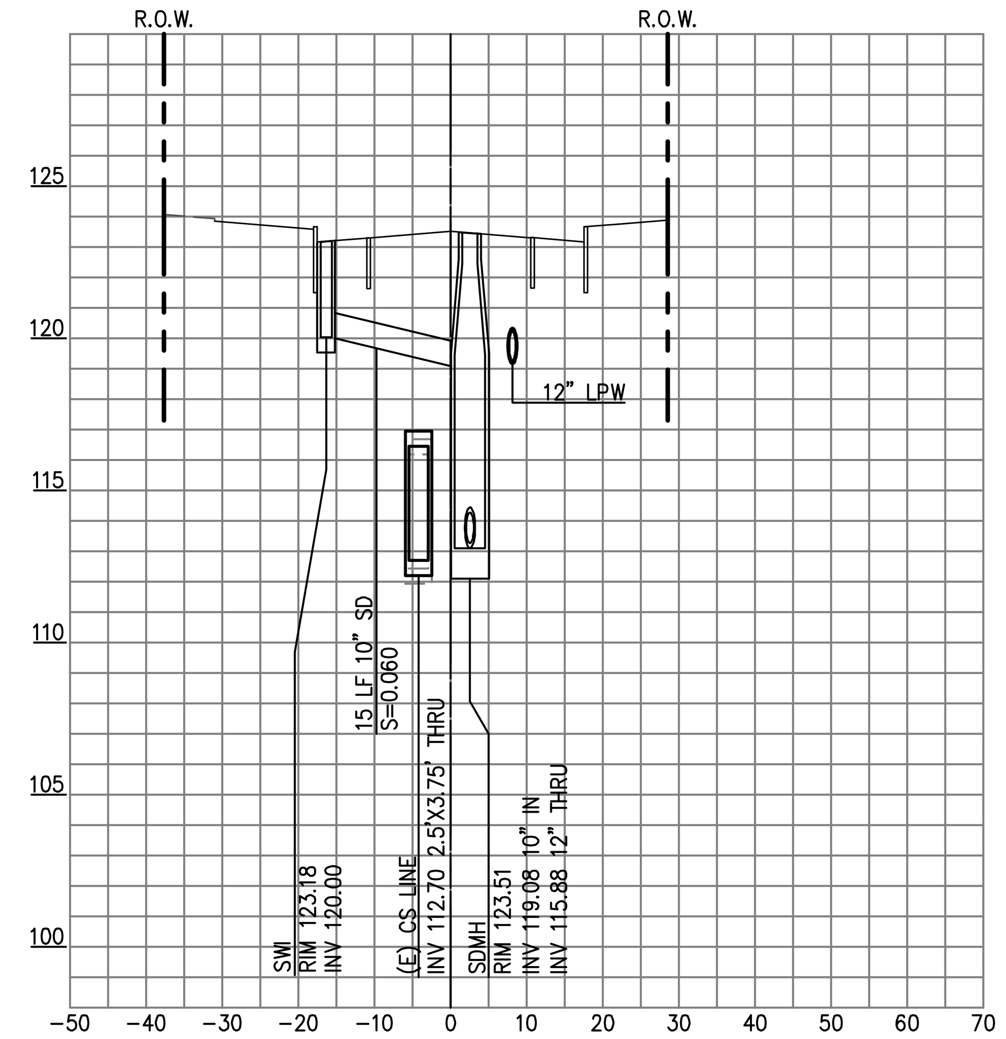

(27) STORM MANHOLE - SERR02

SERRANO DRIVE (STA: 12+56.90)
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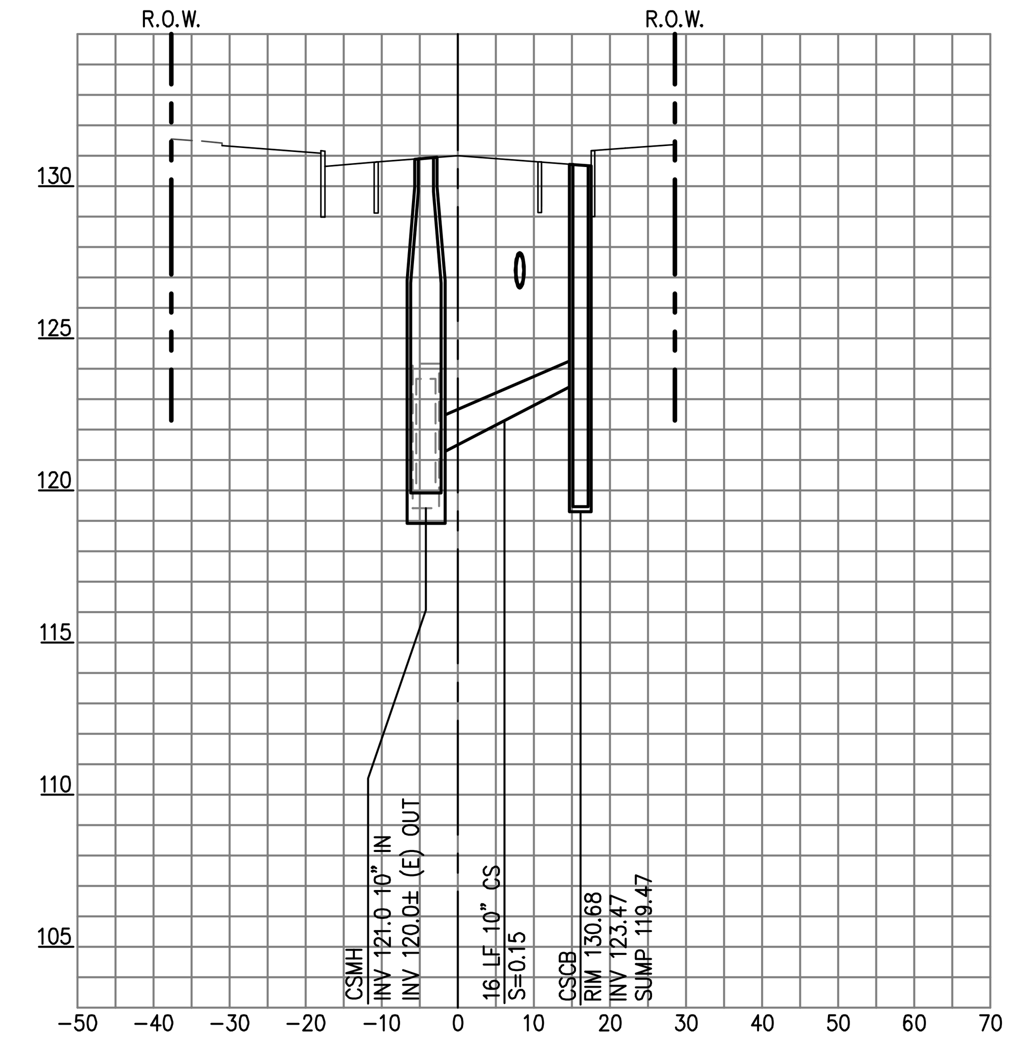

(28) SEWER MANHOLE - SERR02

SERRANO DRIVE (STA: 15+84.04)
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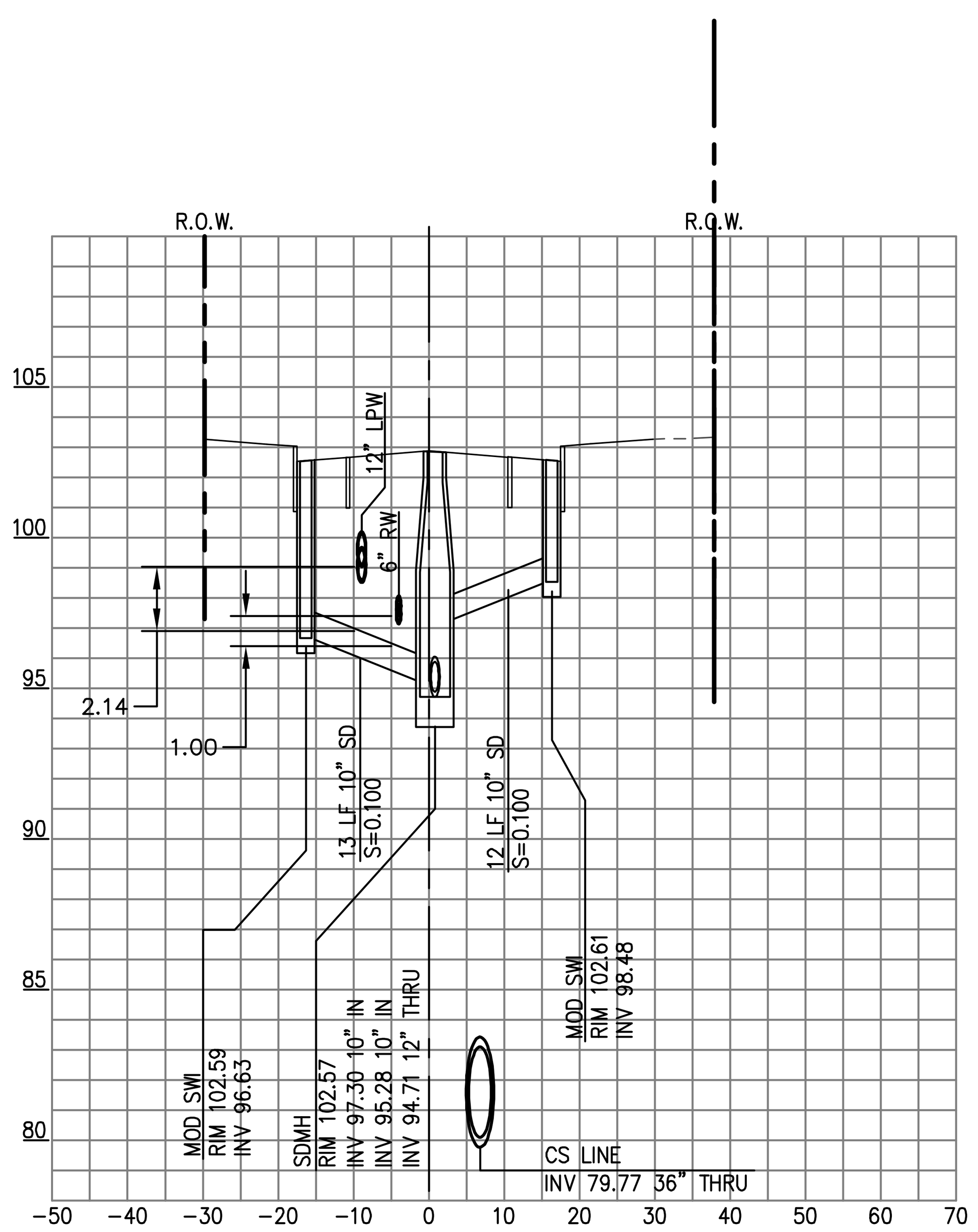

(29) STORM MANHOLE - HGRA01

HIGUERA AVE (STA: 2+61.09)
SCALE HORIZ: 1"=20'
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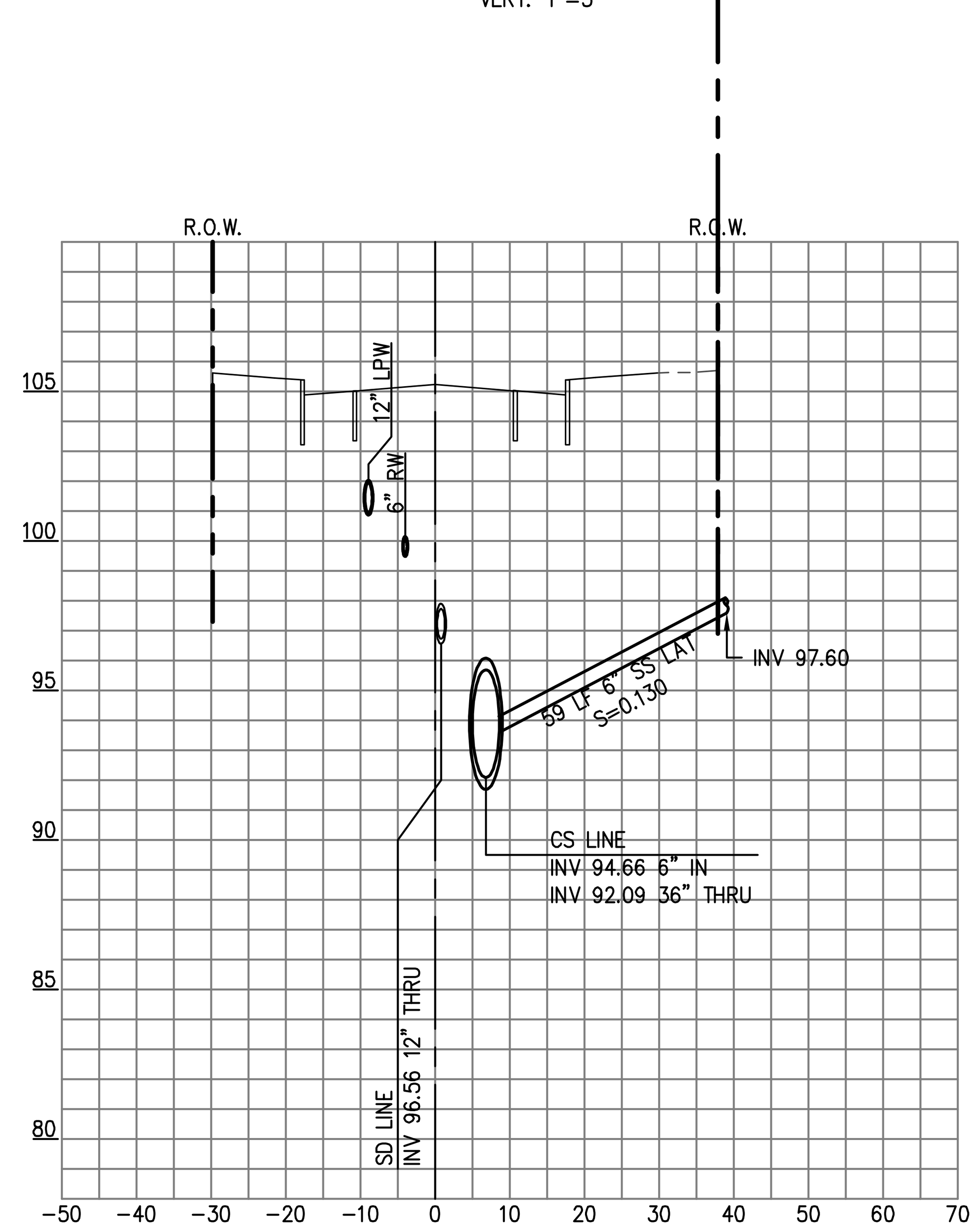
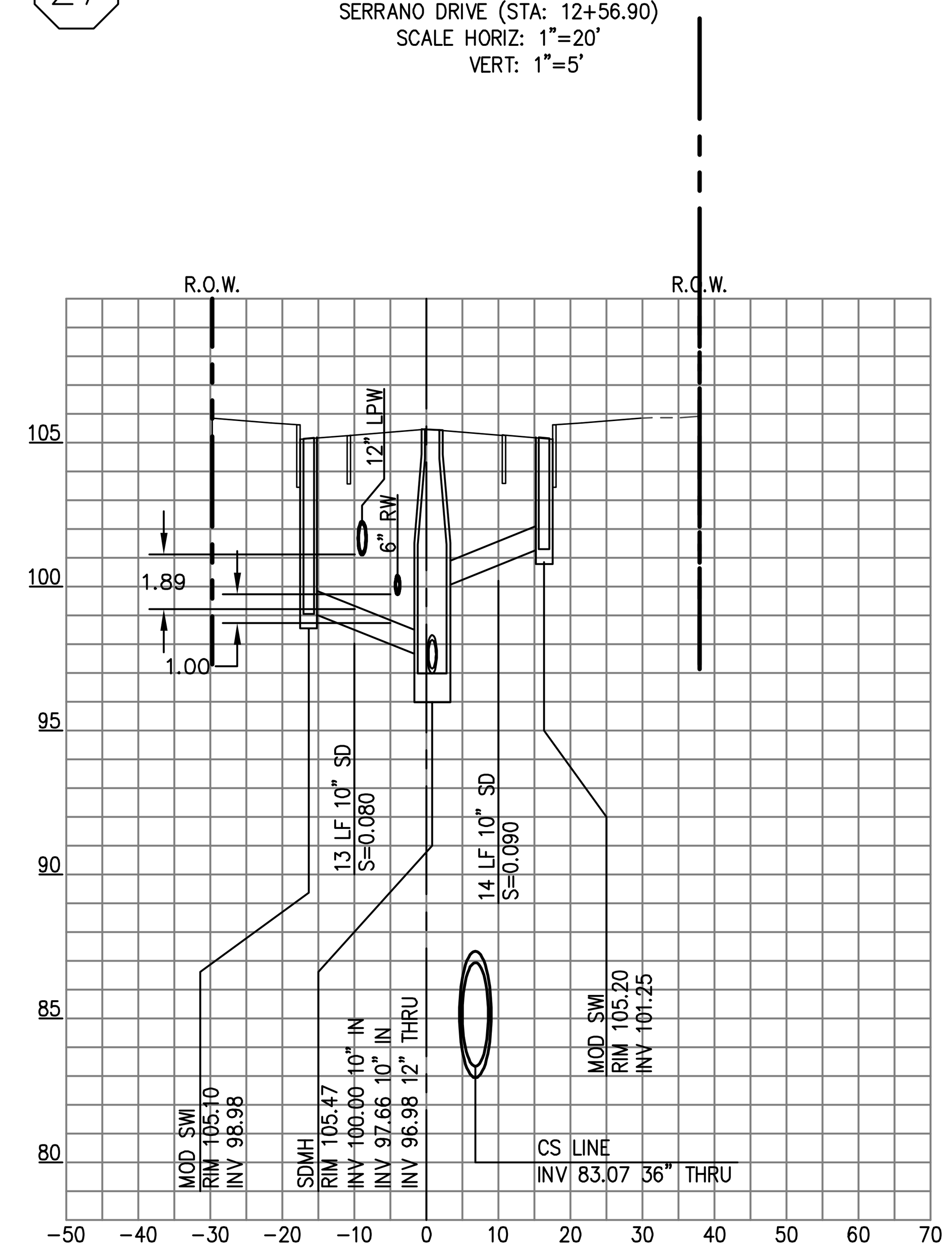


(30) SEWER LATERAL

HIGUERA AVENUE (STA: 4+46.04)
SCALE HORIZ: 1"=20'
VERT: 1"=5'



(31) STORM MANHOLE - HGRA02

HIGUERA AVENUE (STA: 4+83.28)
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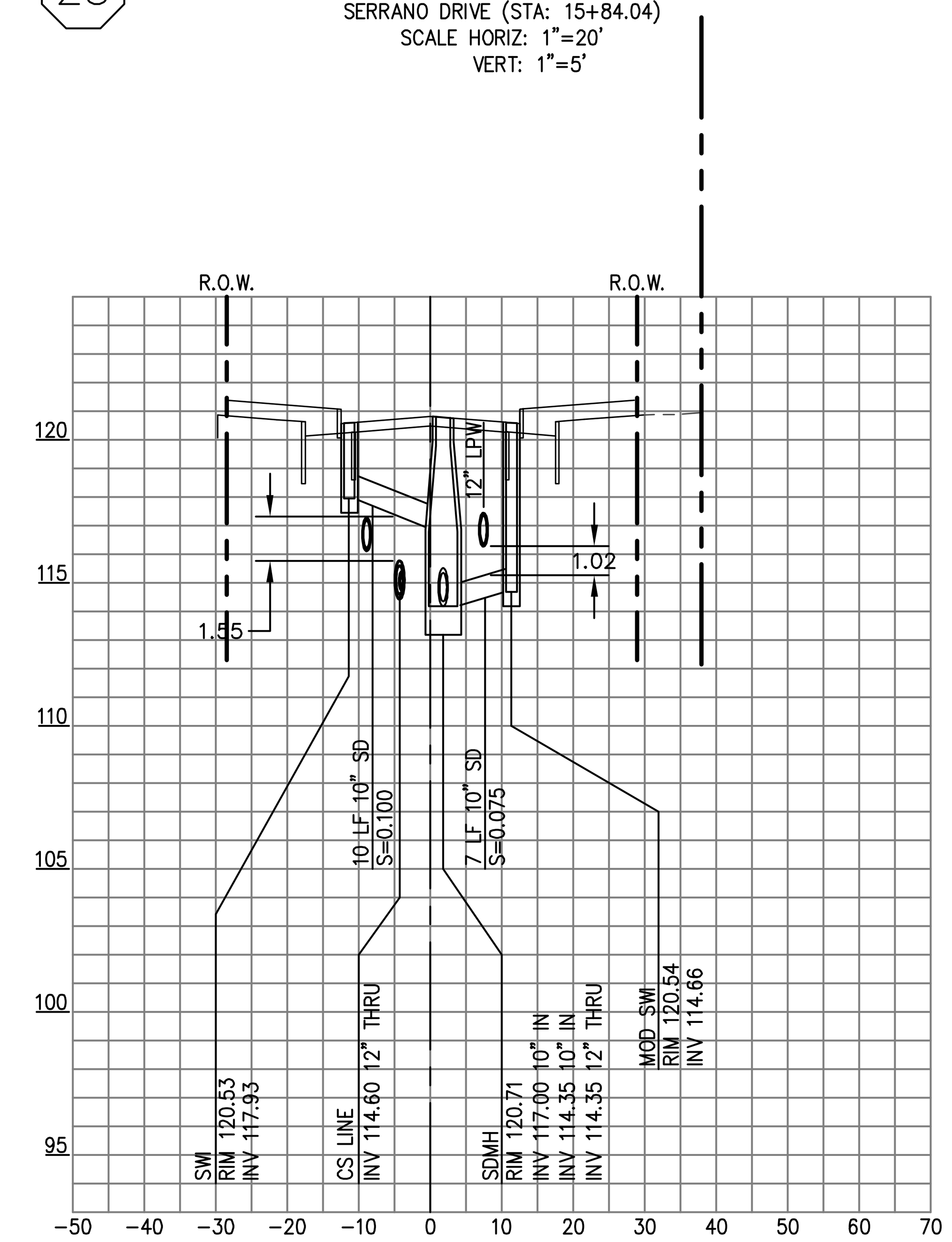
VERT: 1"=5'



(32) STORM MANHOLE - GONZ01

GONZALEZ DRIVE (STA: 10+38.51)
SCALE HORIZ: 1"=20'
VERT: 1"=5'

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STORM DRAIN & SANITARY SEWER CROSSINGS

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
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Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.46

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C312-LAT.dwg (C3.46)
PLOT TIME: 5-1-2017 11:57 AM PLOTTED BY: bum

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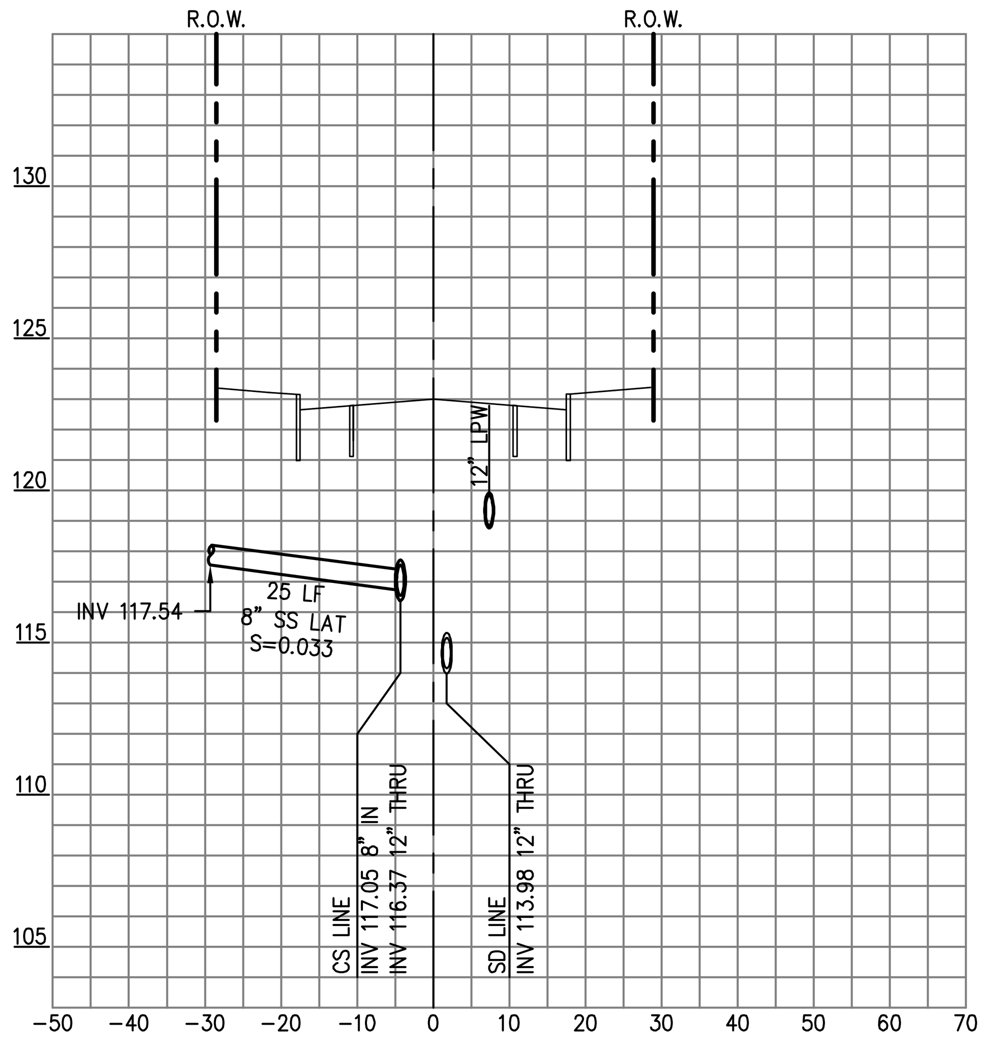

33 **SEWER LATERAL**

GONZALEZ DRIVE (STA: 11+32.08)
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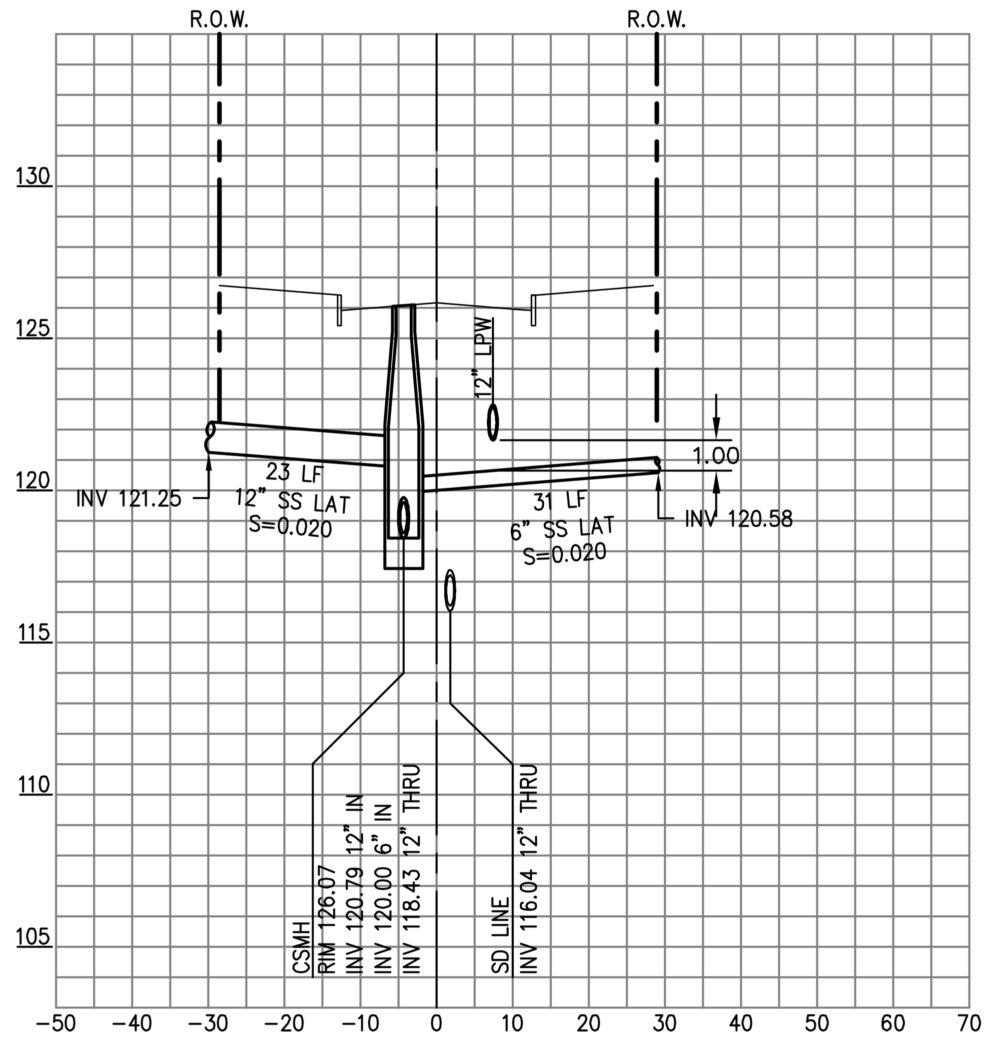

34 **SEWER MANHOLE - GONZ01**

GONZALEZ DRIVE (STA: 12+34.93)
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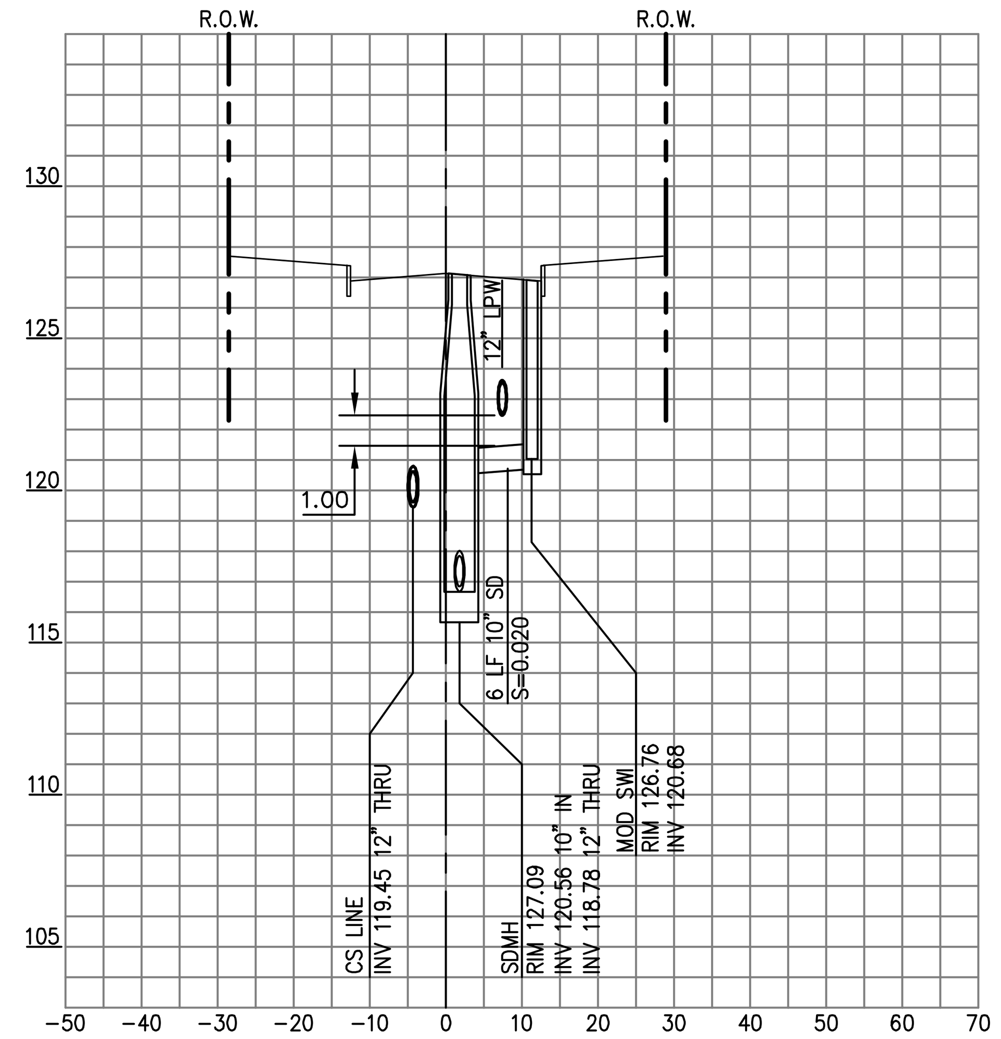

35 **STORM MANHOLE - GONZ02**

GONZALEZ DRIVE (STA: 12+66.78)
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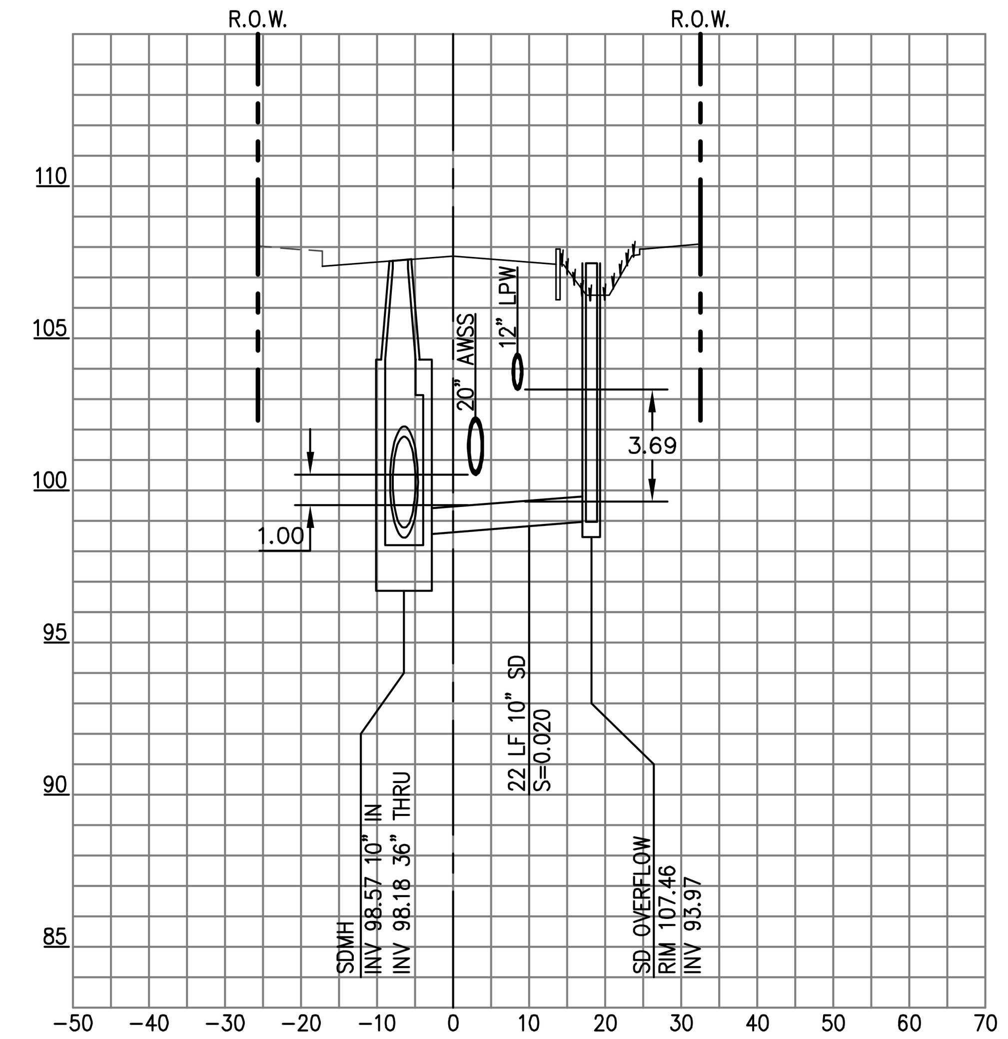
VERT: 1"=5'



36 **STORM MANHOLE - ABL002**

ARBALLO DRIVE (STA: 13+55.42)
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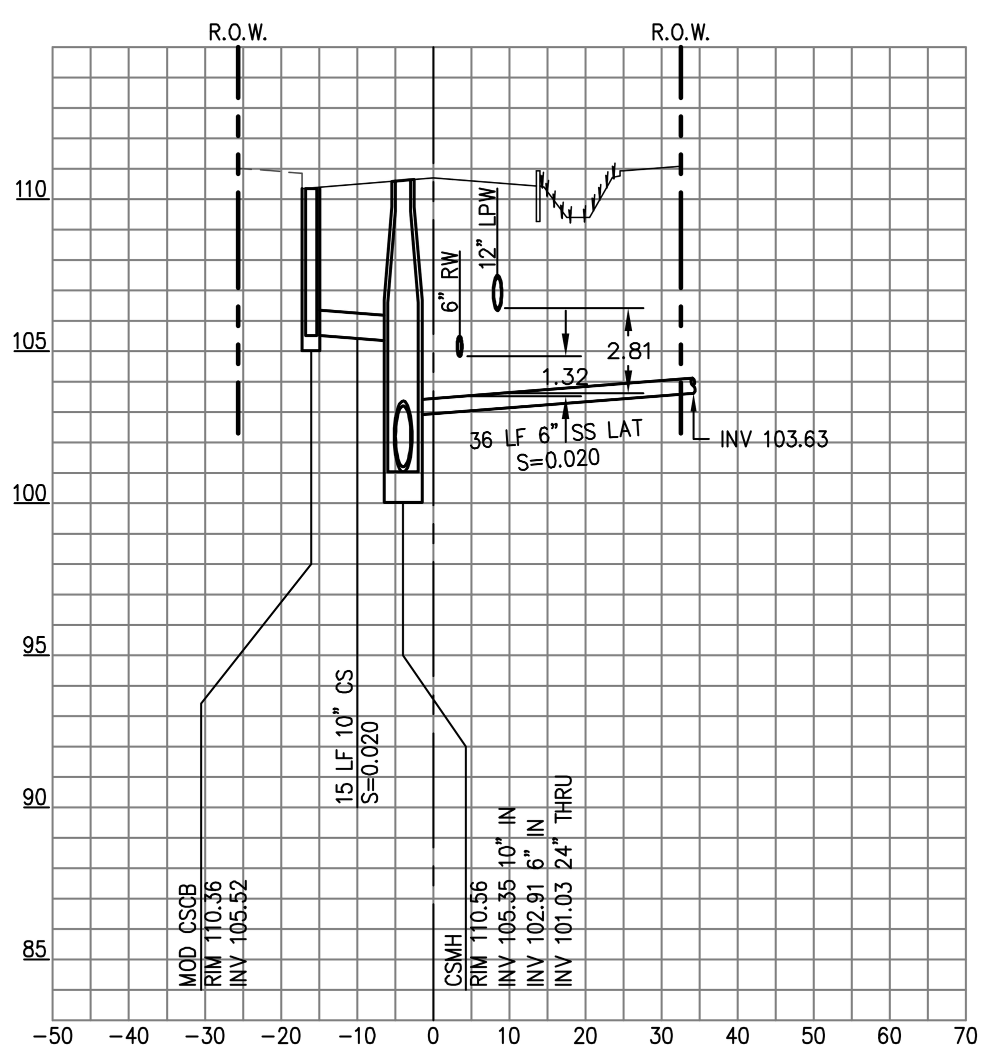
VERT: 1"=5'



37 **SEWER MANHOLE - ABL001**

ARBALLO DRIVE (STA: 15+97.74)
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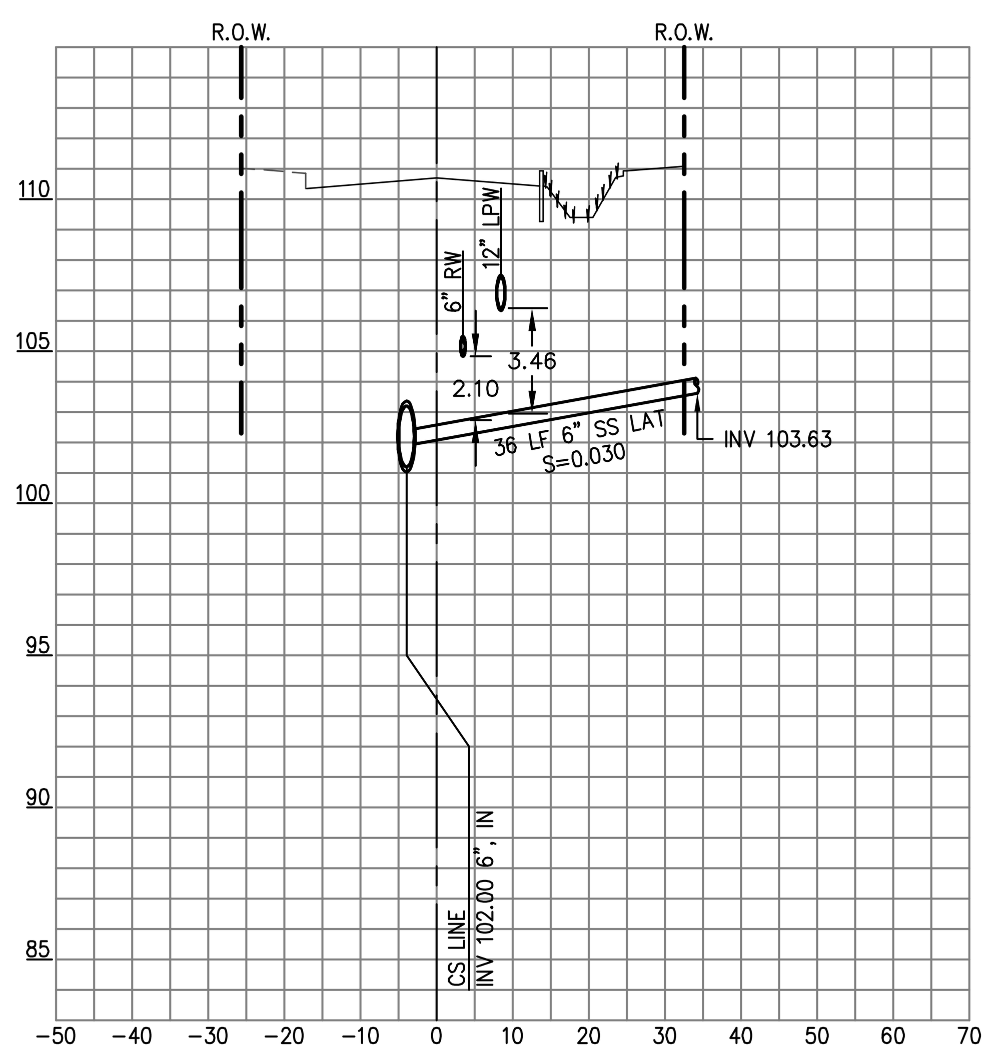

38 **SEWER LATERAL**

ARBALLO DRIVE (STA: 16+04.39)
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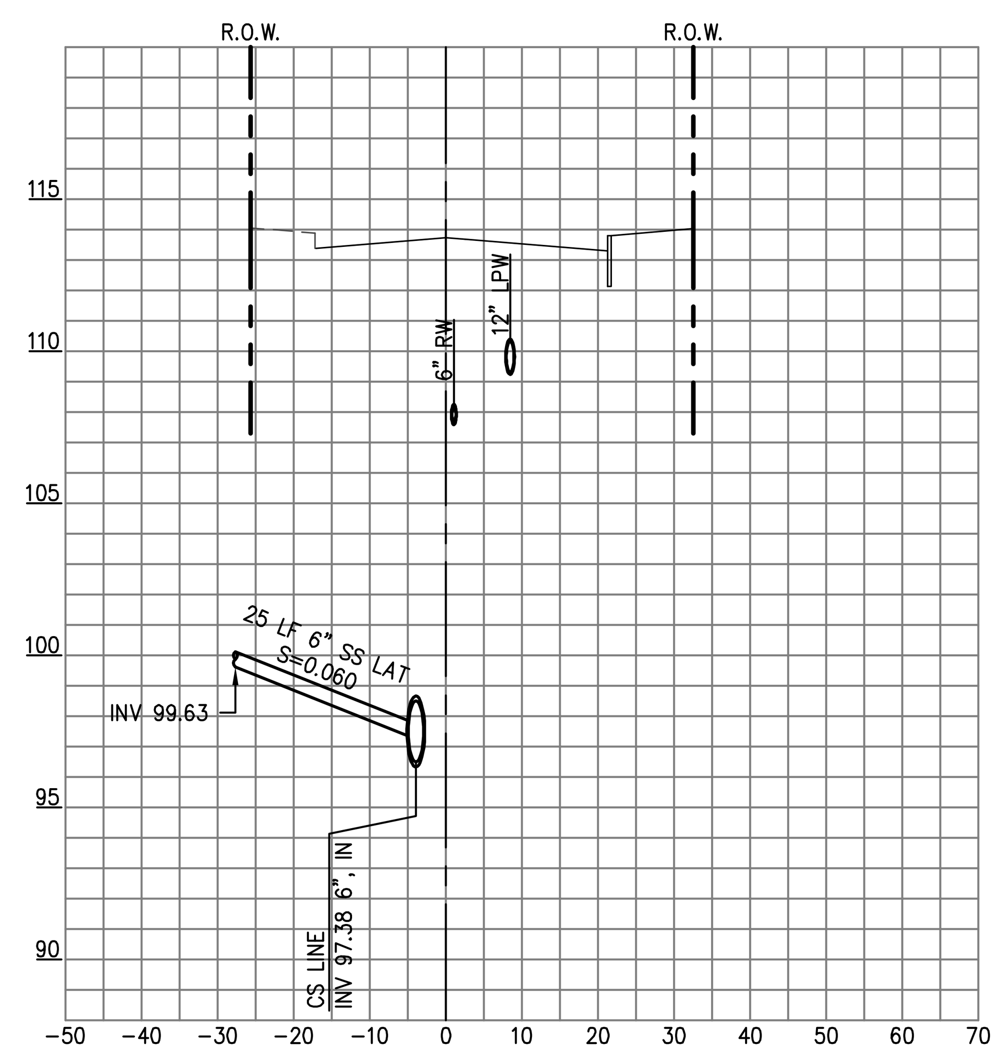
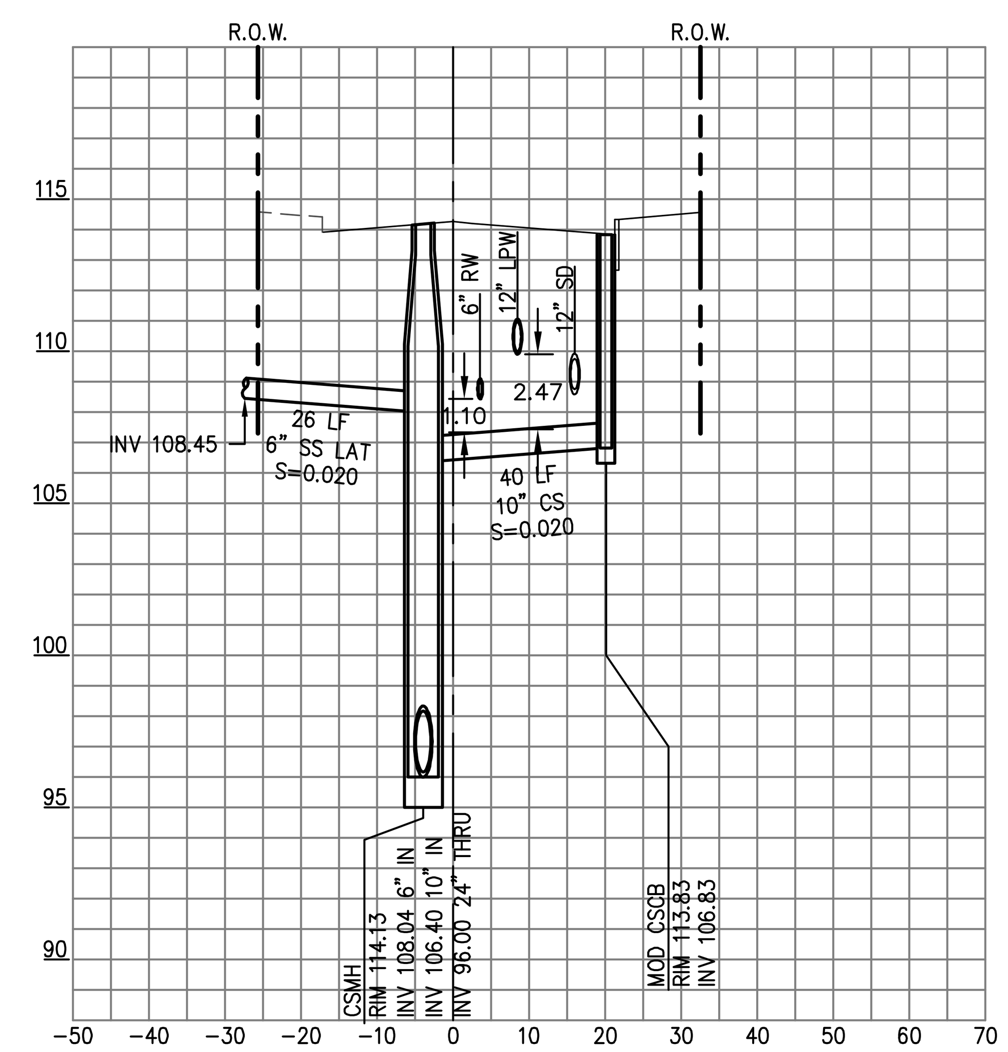
VERT: 1"=5'



39 **SEWER LATERAL**

ARBALLO DRIVE (STA: 17+67.20)
SCALE HORIZ: 1"=20'
VERT: 1"=5'



40 **SEWER MANHOLE - ABL002**

ARBALLO DRIVE (STA: 17+96.85)
SCALE HORIZ: 1"=20'
VERT: 1"=5'

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Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
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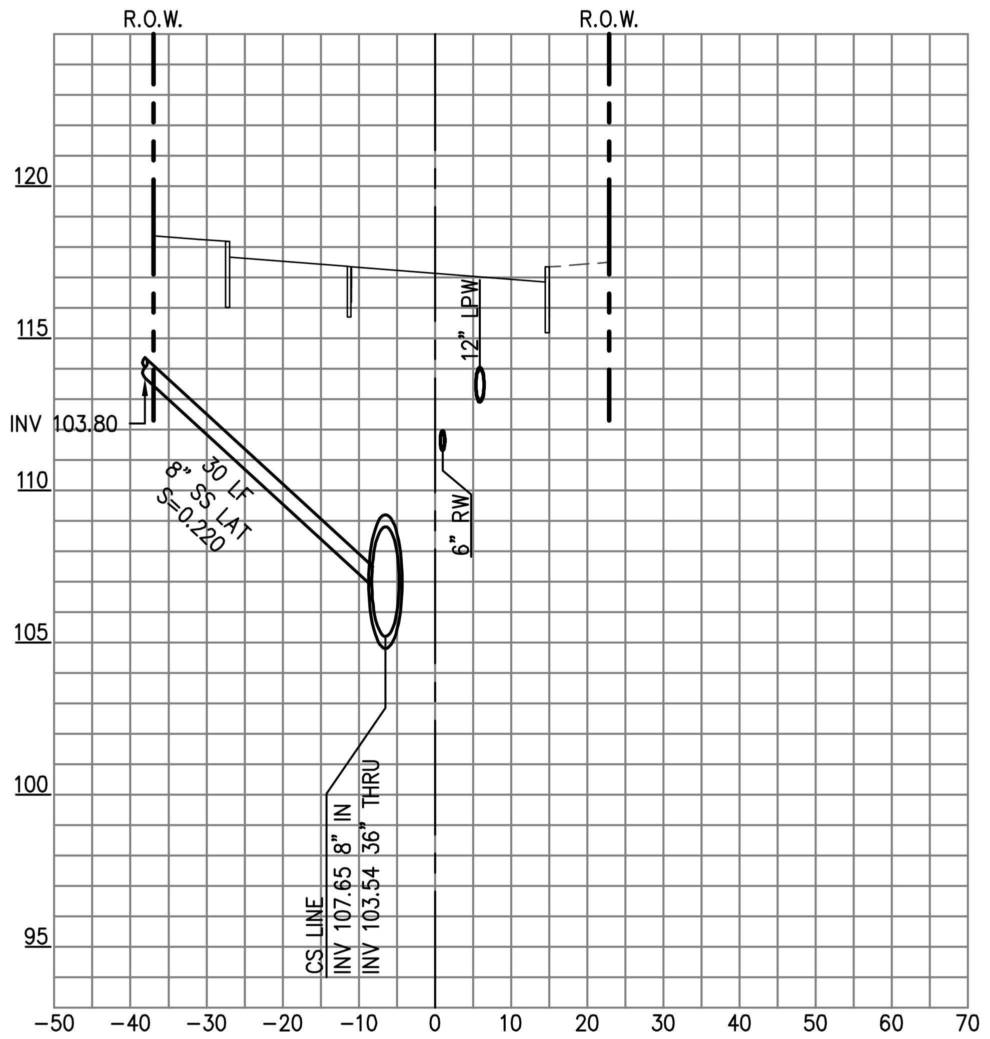

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SEWER LATERAL

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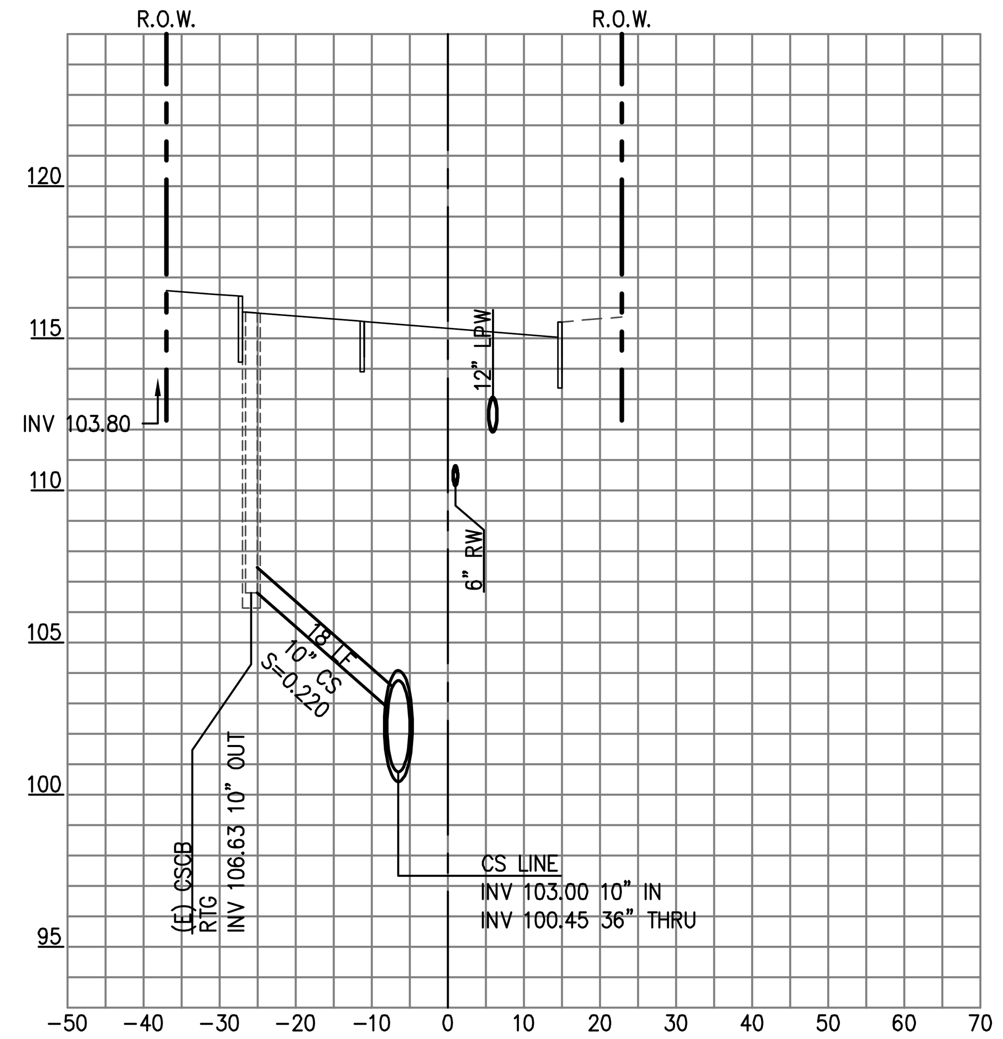

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SEWER LATERAL

ARBALLO DRIVE (STA: 21+67.55)
SCALE HORIZ: 1"=20'
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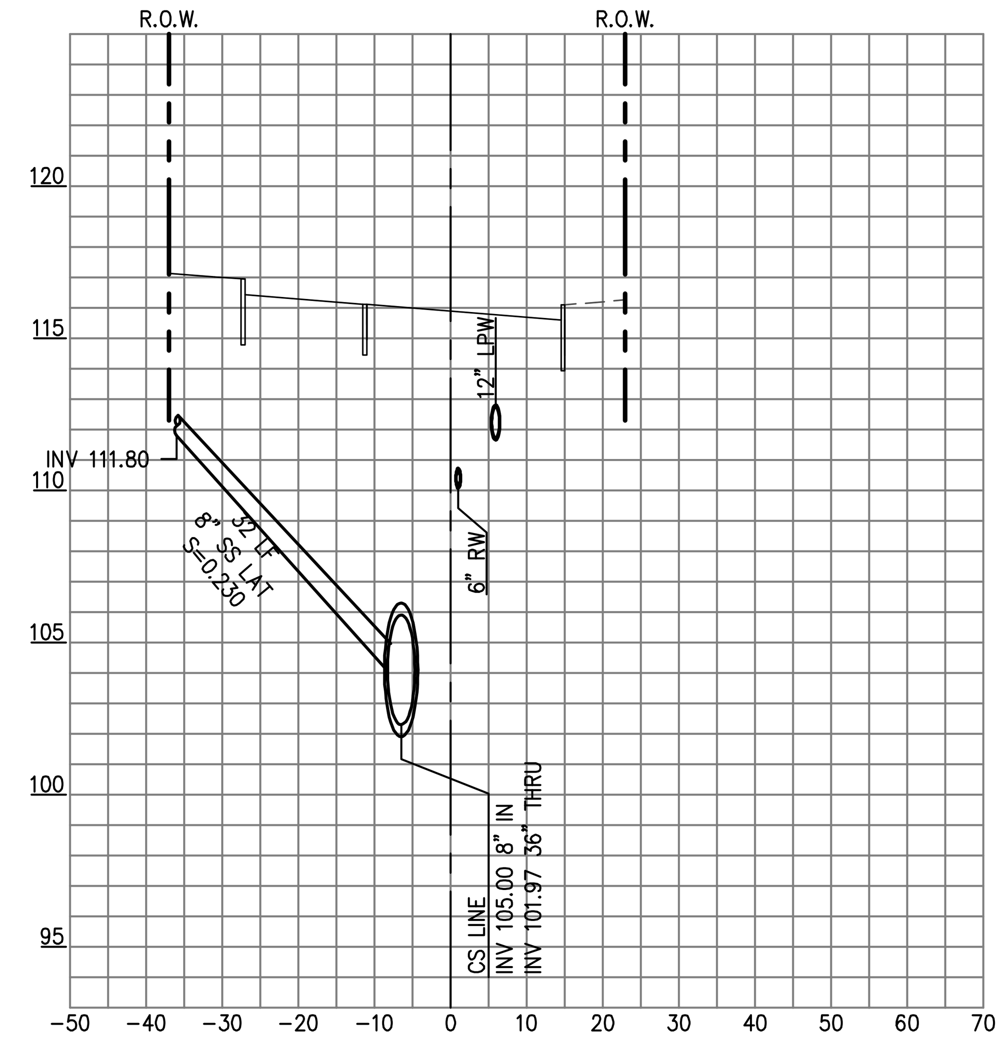
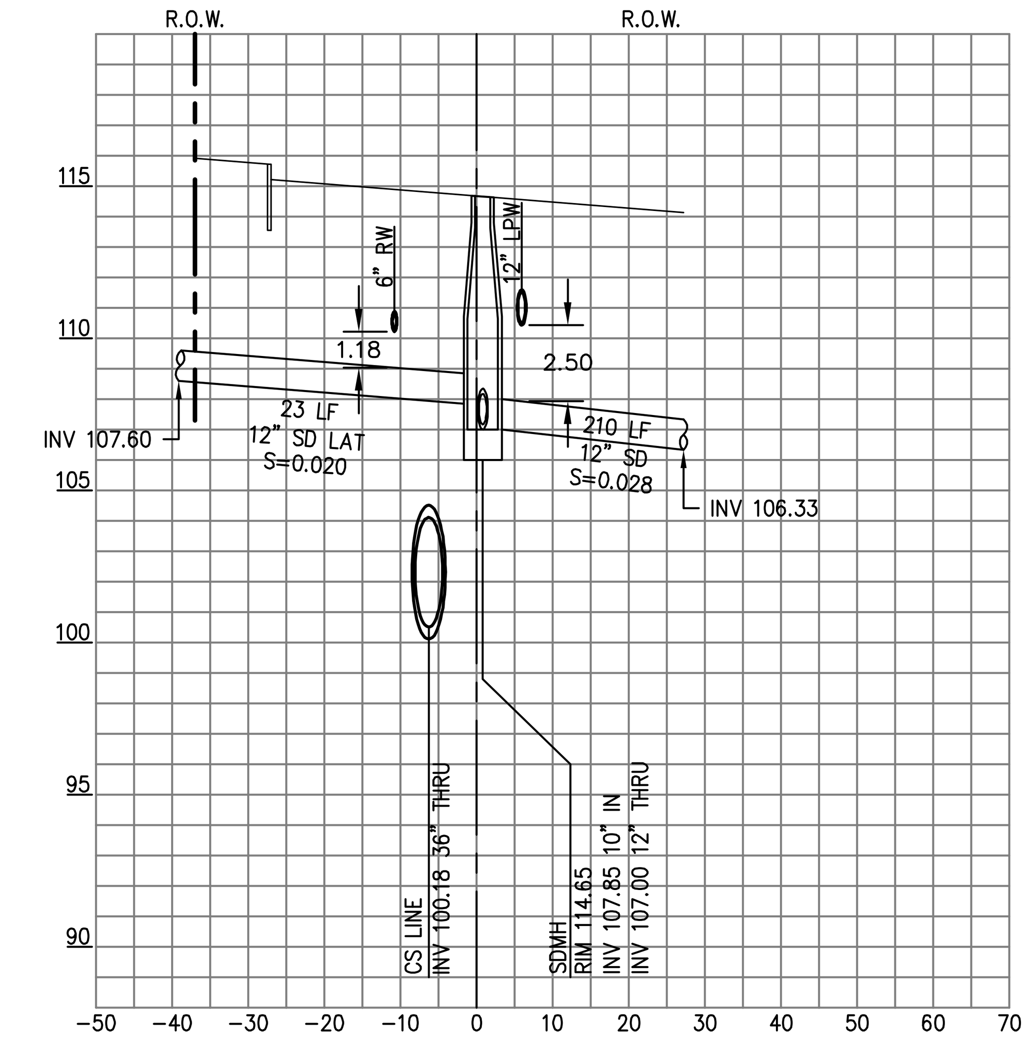


43

SEWER LATERAL

ARBALLO DRIVE (STA: 22+46.02)
SCALE HORIZ: 1"=20'
VERT: 1"=5'



44

STORM MANHOLE - ABL004

ARBALLO DRIVE (STA: 23+35.58)
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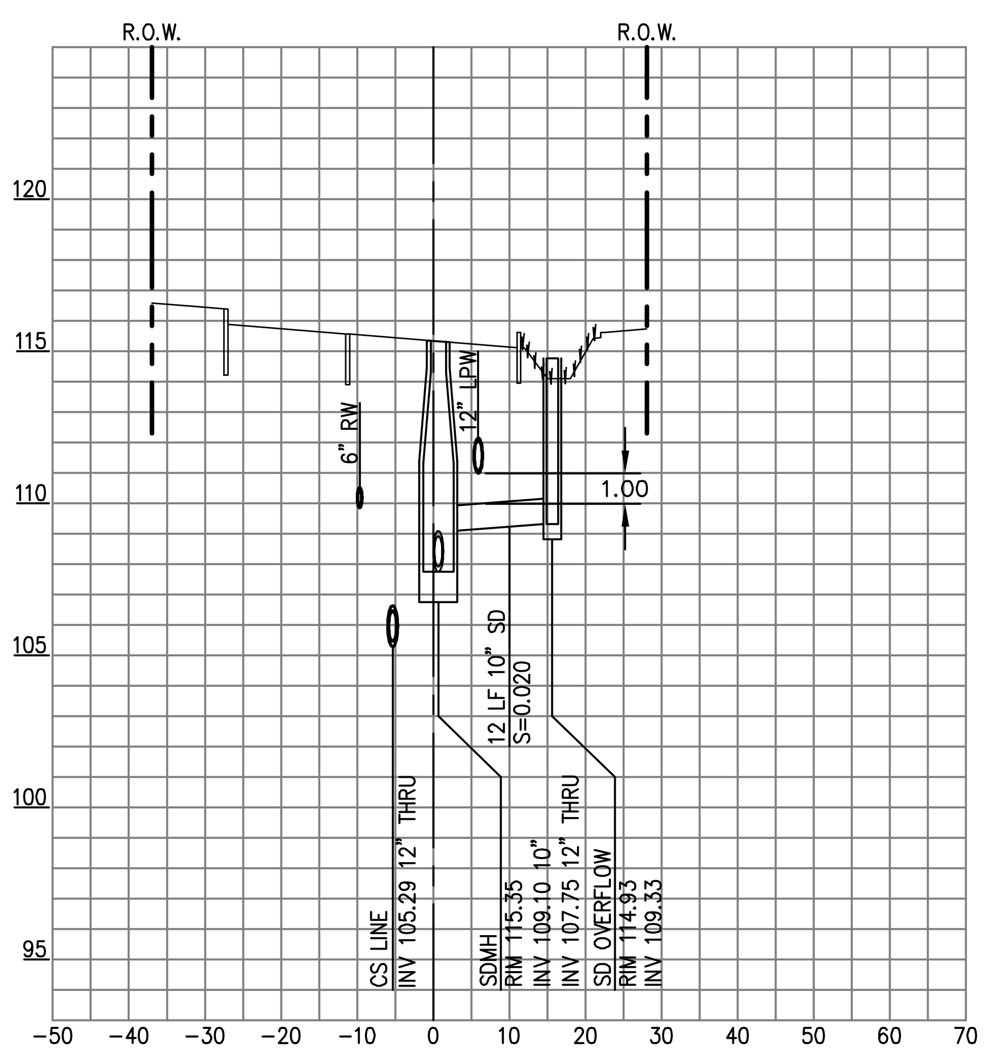
VERT: 1"=5'



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STORM MANHOLE - ABL005

ARBALLO DRIVE (STA: 23+71.64)
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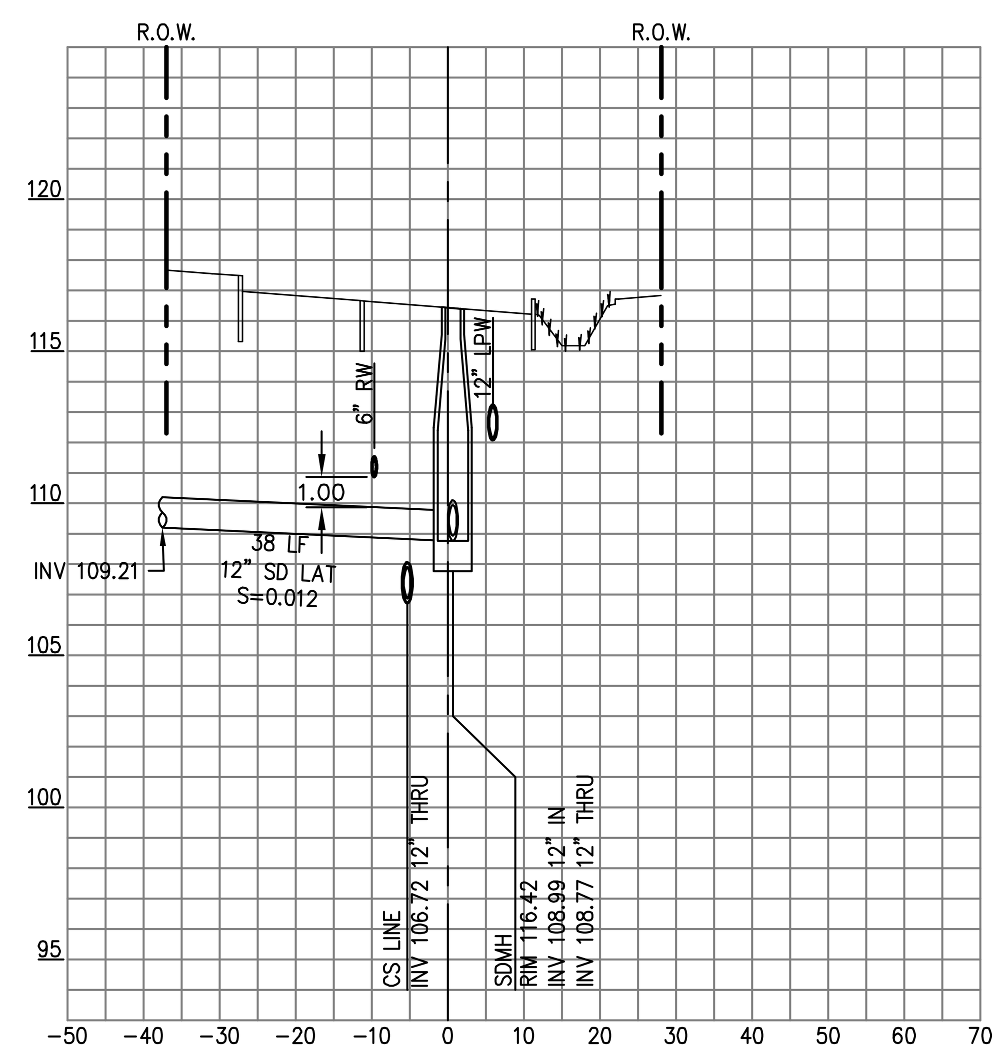

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STORM MANHOLE - ABL006

ARBALLO DRIVE (STA: 24+39.67)
SCALE HORIZ: 1"=20'
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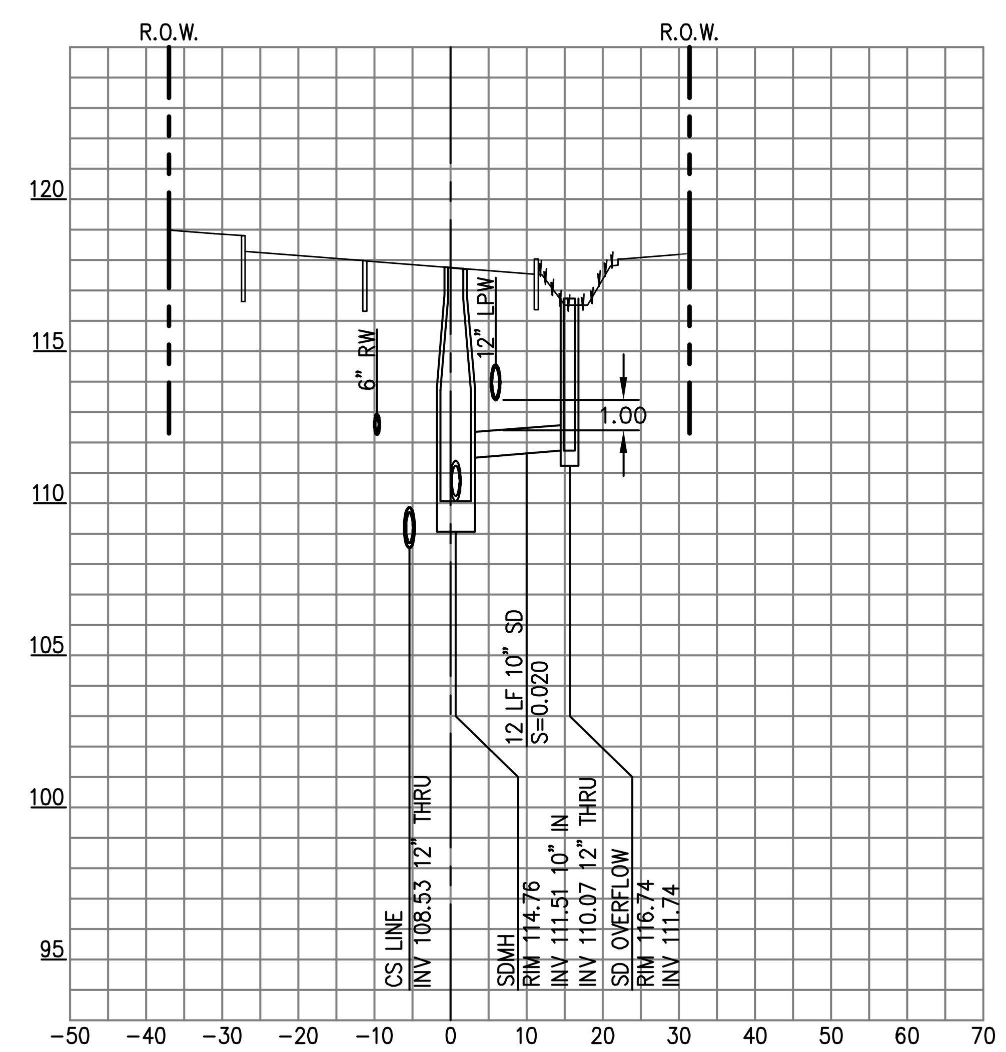

47

STORM MANHOLE - ABL007

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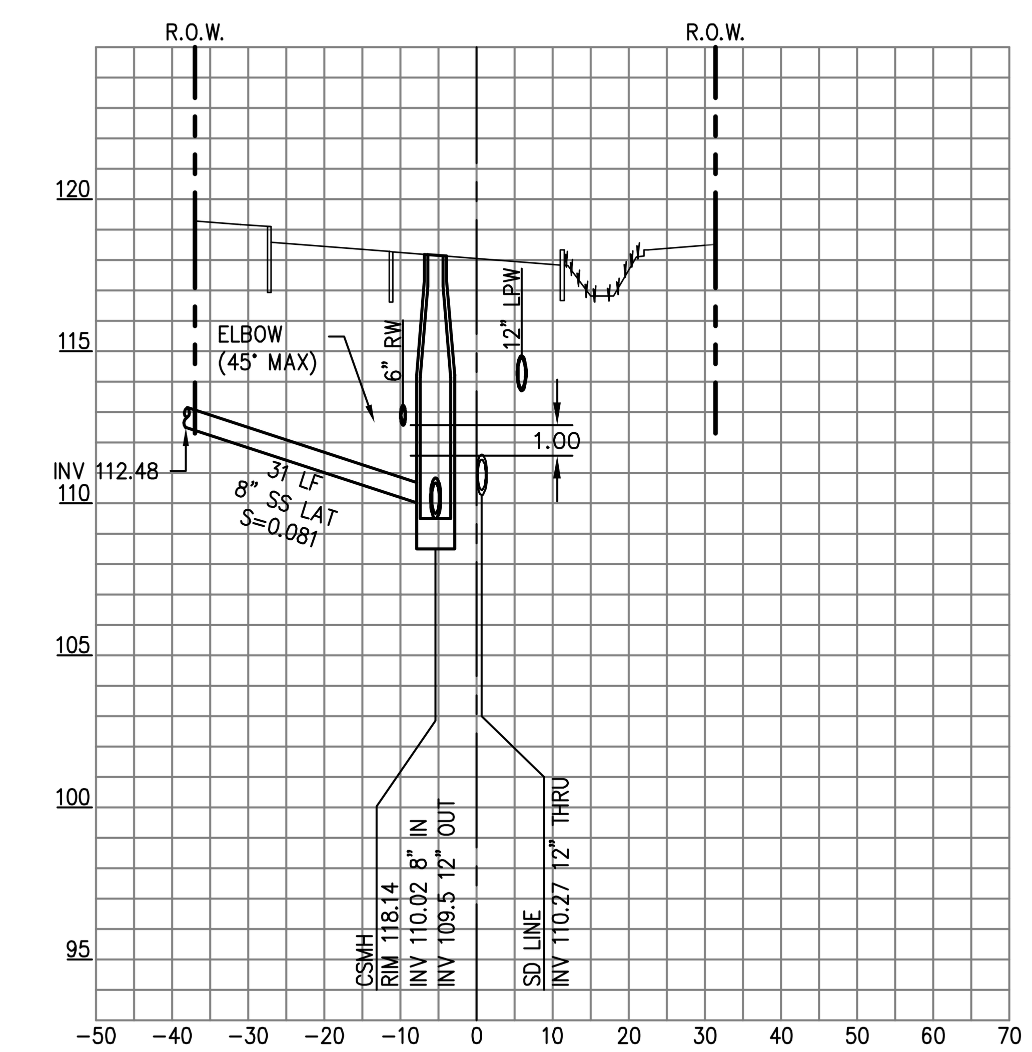
VERT: 1"=5'



48

SEWER MANHOLE - ABL005

ARBALLO DRIVE (STA: 25+28.12)
SCALE HORIZ: 1"=20'
VERT: 1"=5'

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STORM DRAIN & SANITARY SEWER CROSSINGS

SAN FRANCISCO / SAN FRANCISCO COUNTY / CALIFORNIA

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Job No: 20090086

Drawing Number:
C3.48

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C312-LAT.dwg (C3.48)
PLOT TIME: 5-1-2017 11:57 AM PLOTTED BY: bum

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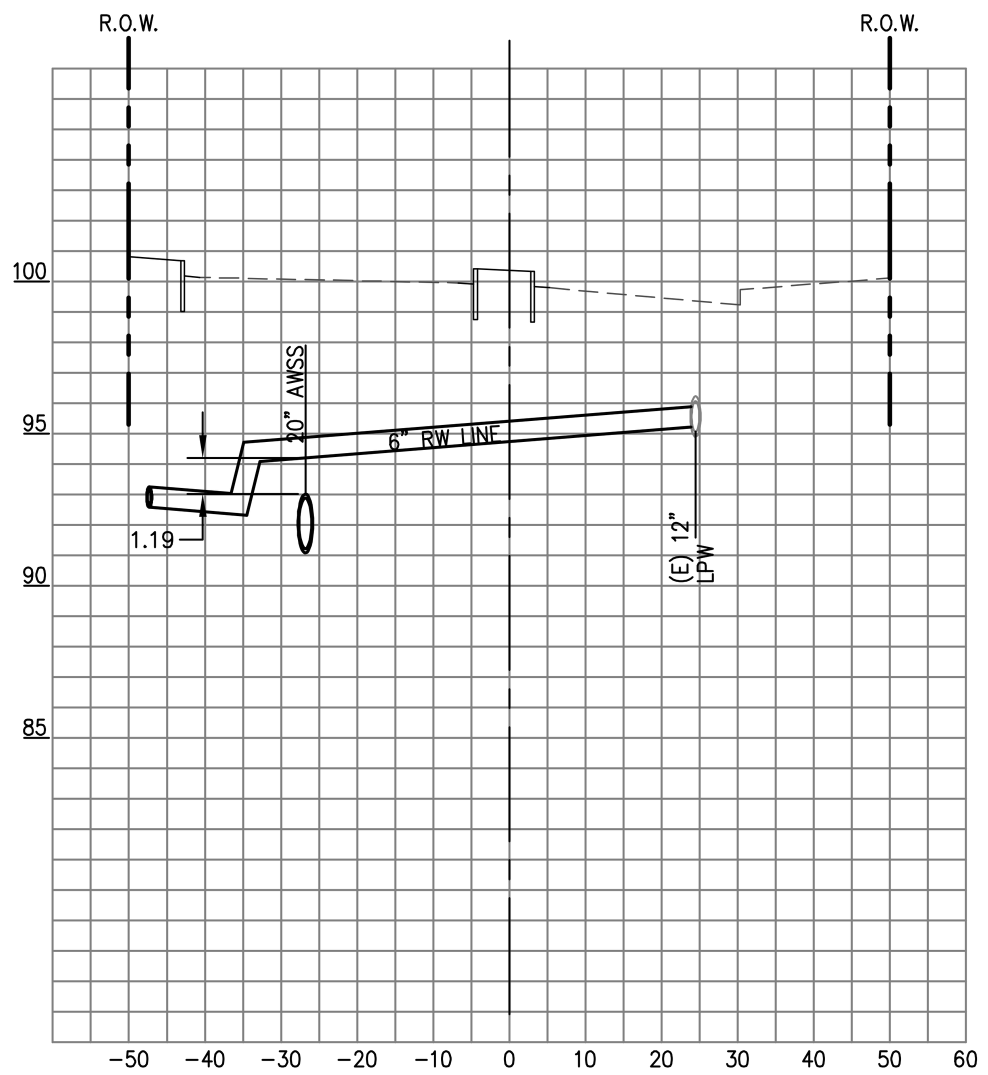

49 **AWSS CROSSING - LMB**

LAKE MERCED BLVD. (STA: 219+50.19)
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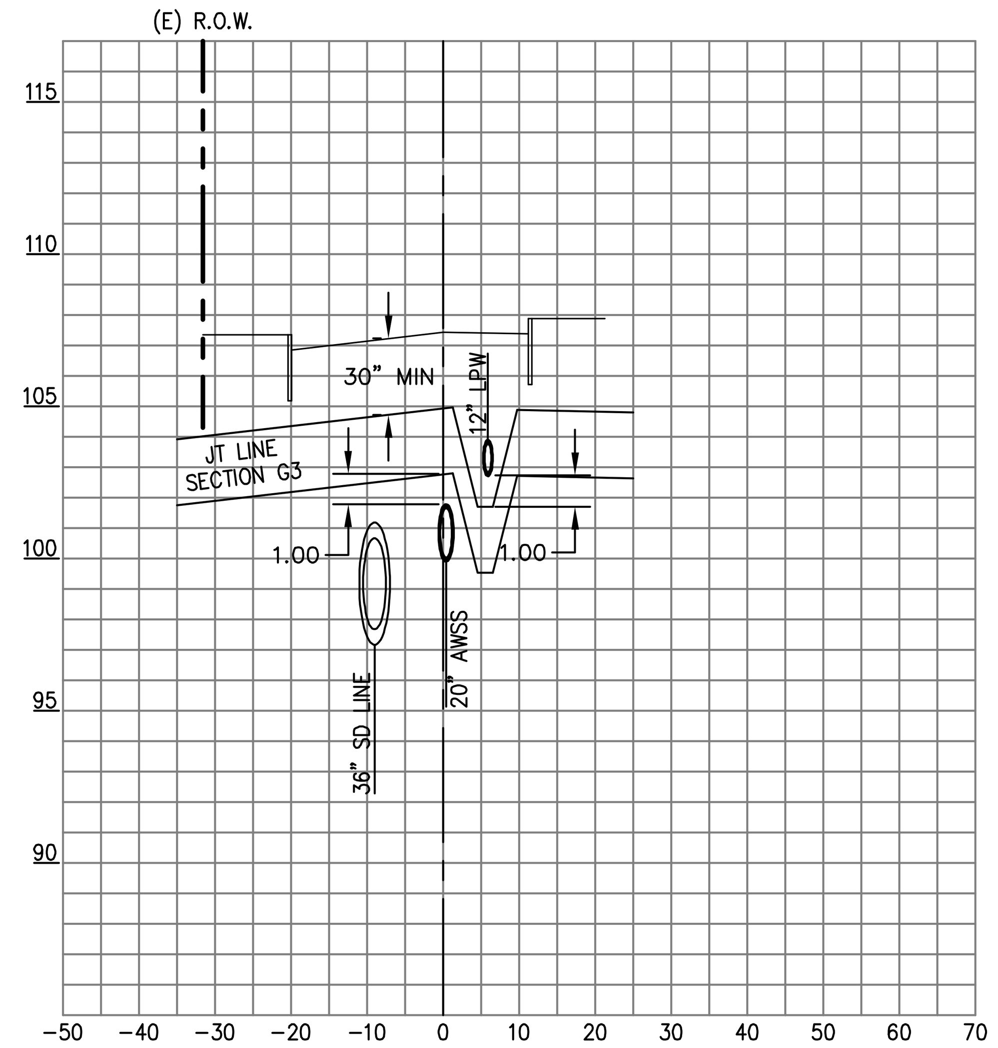
VERT: 1"=5'



50 **JT CROSSING - ARBALLO**

ARBALLO DR. (STA: 13+16.83)
SCALE HORIZ: 1"=20'
VERT: 1"=5'

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Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C3.49

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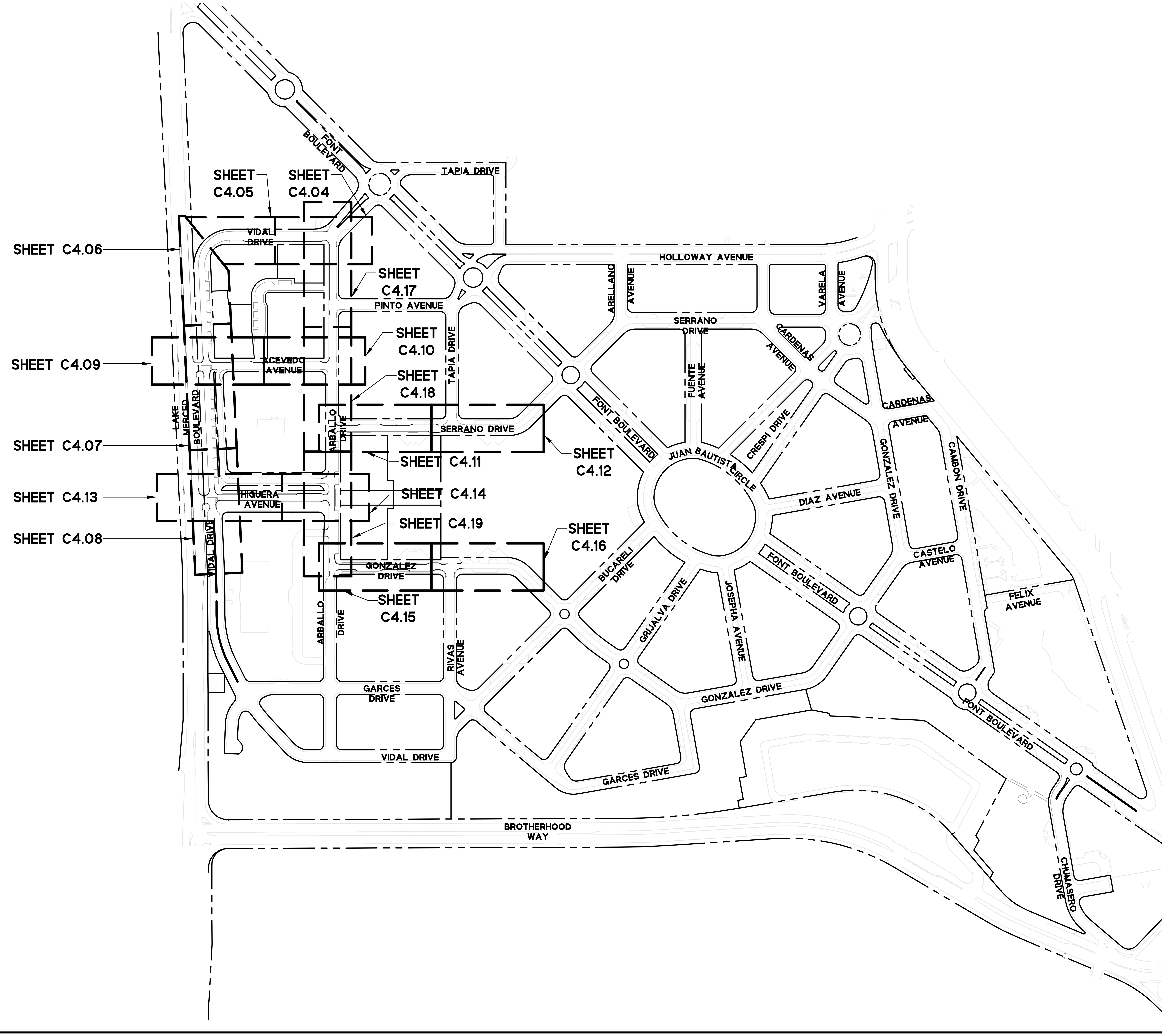

GRAPHIC SCALE

200 0 200 400

GENERAL NOTES

1. REFER TO C3.00 SERIES FOR STORM, SEWER AND COMBINED SEWER INFORMATION.
2. WATER LATERALS SHALL BE INSTALLED WITH THE FOLLOWING MINIMUM COVERS:
   a. 24" MIN COVER FOR LATERALS 2" AND LESS
   b. 30" MIN COVER FOR LATERALS GREATER THAN 2"
3. THE CONTRACTOR SHALL CONFIRM THE LOCATION, SIZE AND TERMINATION POINT OF ALL SERVICE LATERALS PRIOR TO CONSTRUCTION.
4. FIRE SERVICE LATERALS SHALL TERMINATE 1' BEHIND THE CURB OR SIDEWALK WITH A FLANGE.
5. FOR WATER LINE AND RECLAIMED WATER LINE DETAILS, REFER TO SHEETS C7.22 THROUGH C7.27.
6. DIMENSIONS SHOWN ARE TO CENTER OF PIPE, UNLESS OTHERWISE NOTED,
7. FOR UTILITY CLEARANCES, REFER TO TYPICAL CROSS SECTIONS.

LEGEND

WATER LINE UTILITY TRENCH	SEE DETAIL CDD-LP-002 ON SHEET C7.22
AIR VALVE BLOW OFF	SEE DETAIL CDD-LP-003 ON SHEET C7.22
FIRE HYDRANT	SEE DETAIL CDD-LP-004 ON SHEET C7.22
1" WATER SERVICE	SEE DETAIL CDD-LP-201C ON SHEET C7.24
2" WATER SERVICE	SEE DETAIL CDD-LP-202C ON SHEET C7.24
3" WATER SERVICE	SEE DETAIL CDD-LP-203D ON SHEET C7.25
4" WATER SERVICE	SEE DETAIL CDD-LP-203E ON SHEET C7.25
6" WATER SERVICE	SEE DETAIL CDD-LP-203F ON SHEET C7.25
VALVE COVERS (POTABLE WATER)	SEE DETAIL CDD-LP-251 ON SHEET C7.26
VALVE COVERS (RECLAIMED WATER)	SEE DETAIL CDD-LP-252 ON SHEET C7.26

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UTILITY PLAN & PROFILE - KEY MAP

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Scale: 1"=200'
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Approved: BS
Job No: 20090086

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C4.00

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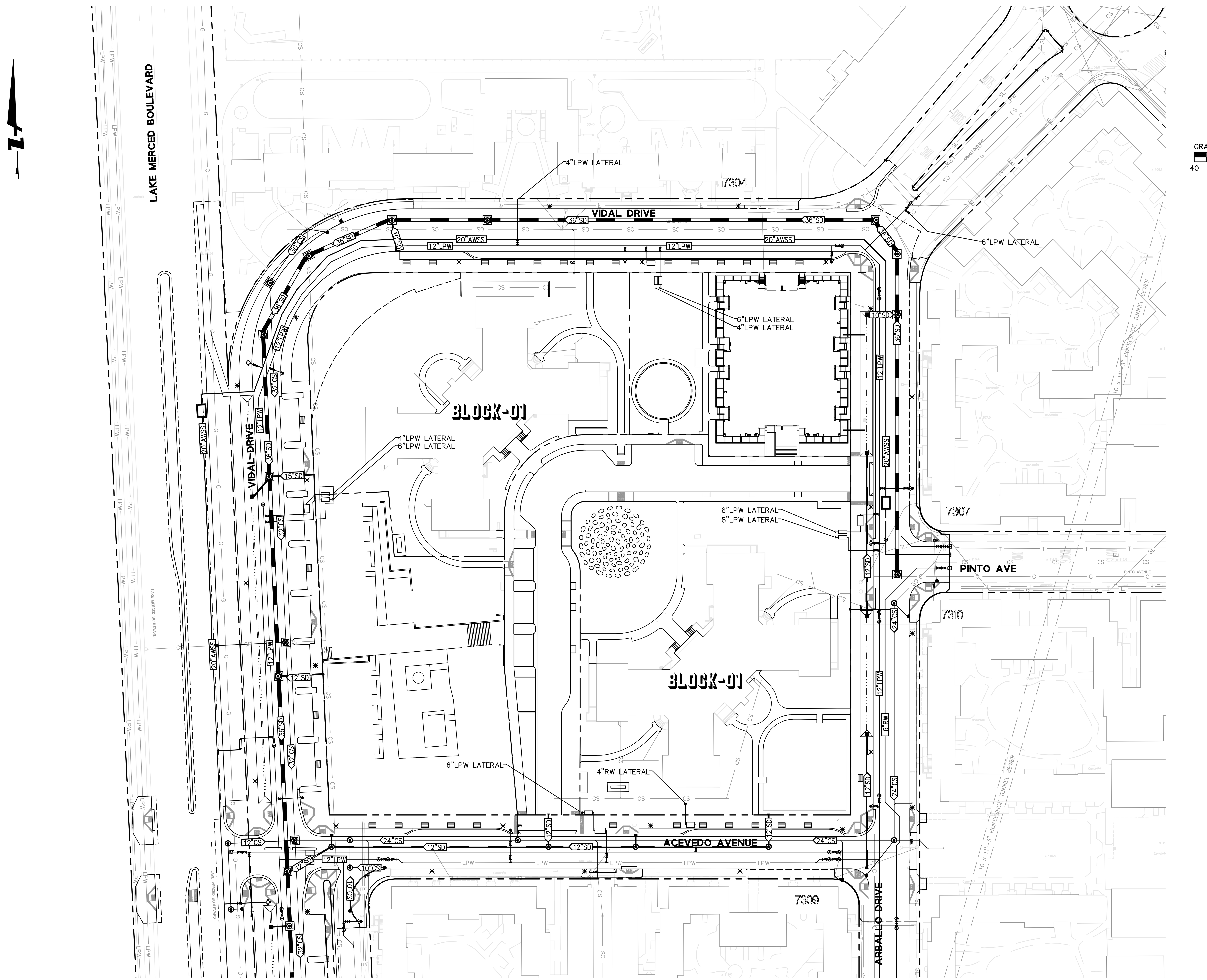

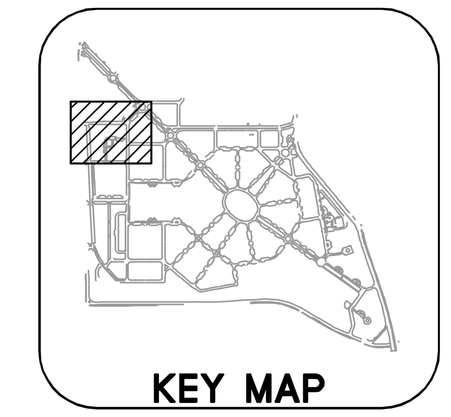

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UTILITY PLAN – NORTHWEST

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No.	Revisions

Date: 05/01/17
Scale: 1"=40'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C4.01

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C400-UT.dwg (C4.01)
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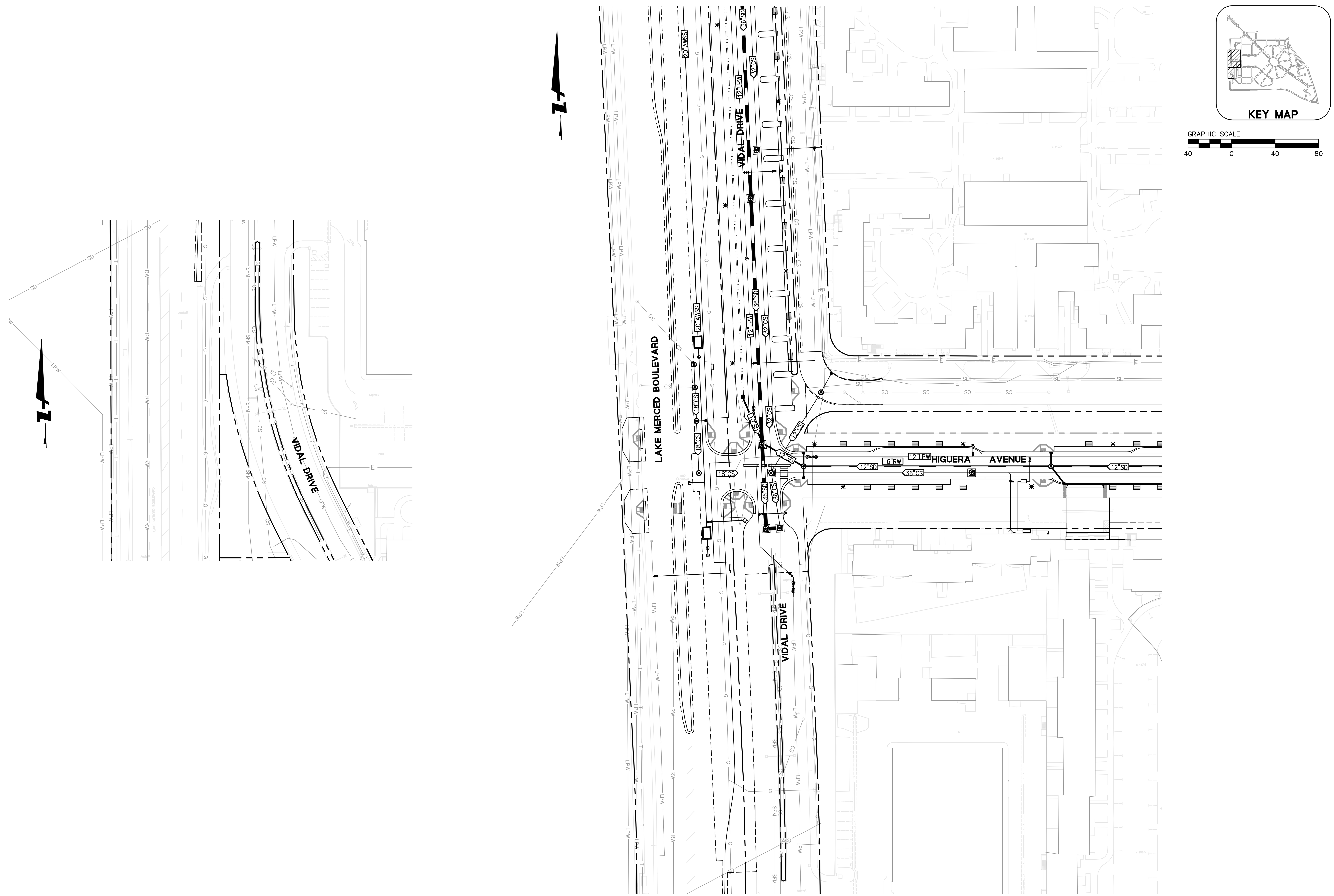

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PHASE 1A STREET IMPROVEMENT PLANS

UTILITY PLAN - WEST

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BRIAN K. SCOTT No. 61088 Exp. 12/31/18 CIVIL STATE OF CALIFORNIA

Date: 05/01/17	No.	Revisions
Scale: 1"=40'		
Design: TH		
Drawn: NL		
Approved: BS		
Job No: 20090086		

Drawing Number:

C4.02

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C400-UT.dwg (C4.02)
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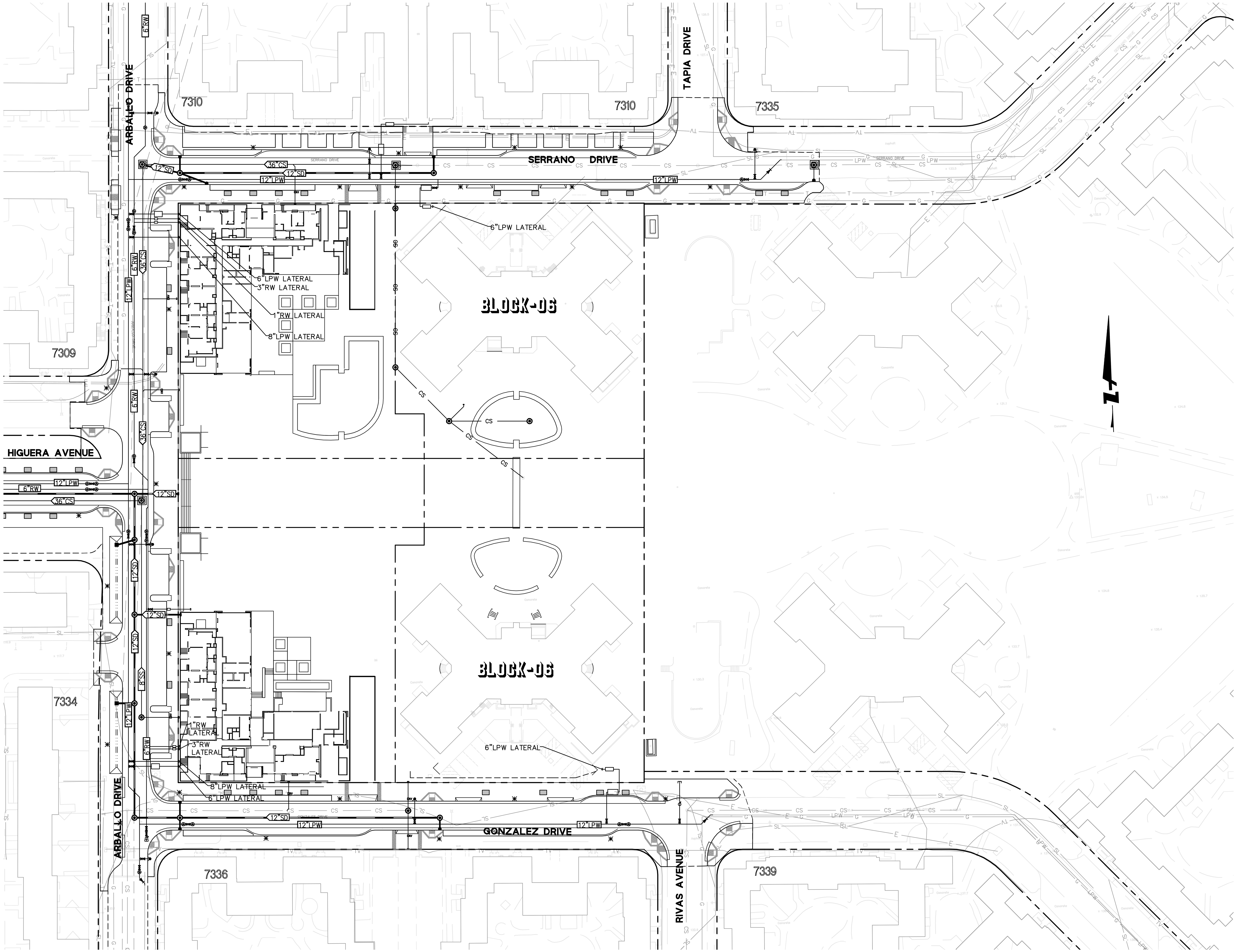

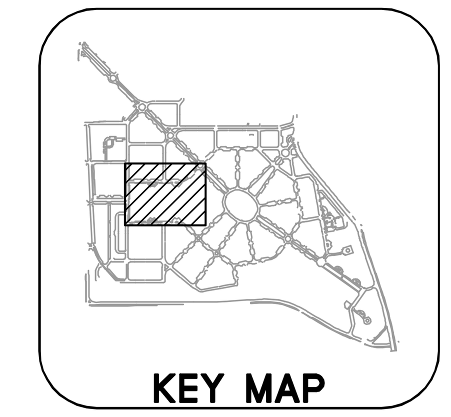

GRAPHIC SCALE
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PHASE 1A STREET IMPROVEMENT PLANS
UTILITY PLAN - EAST

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No.	Revisions

Date: 05/01/17
Scale: 1"=40'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

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C4.03

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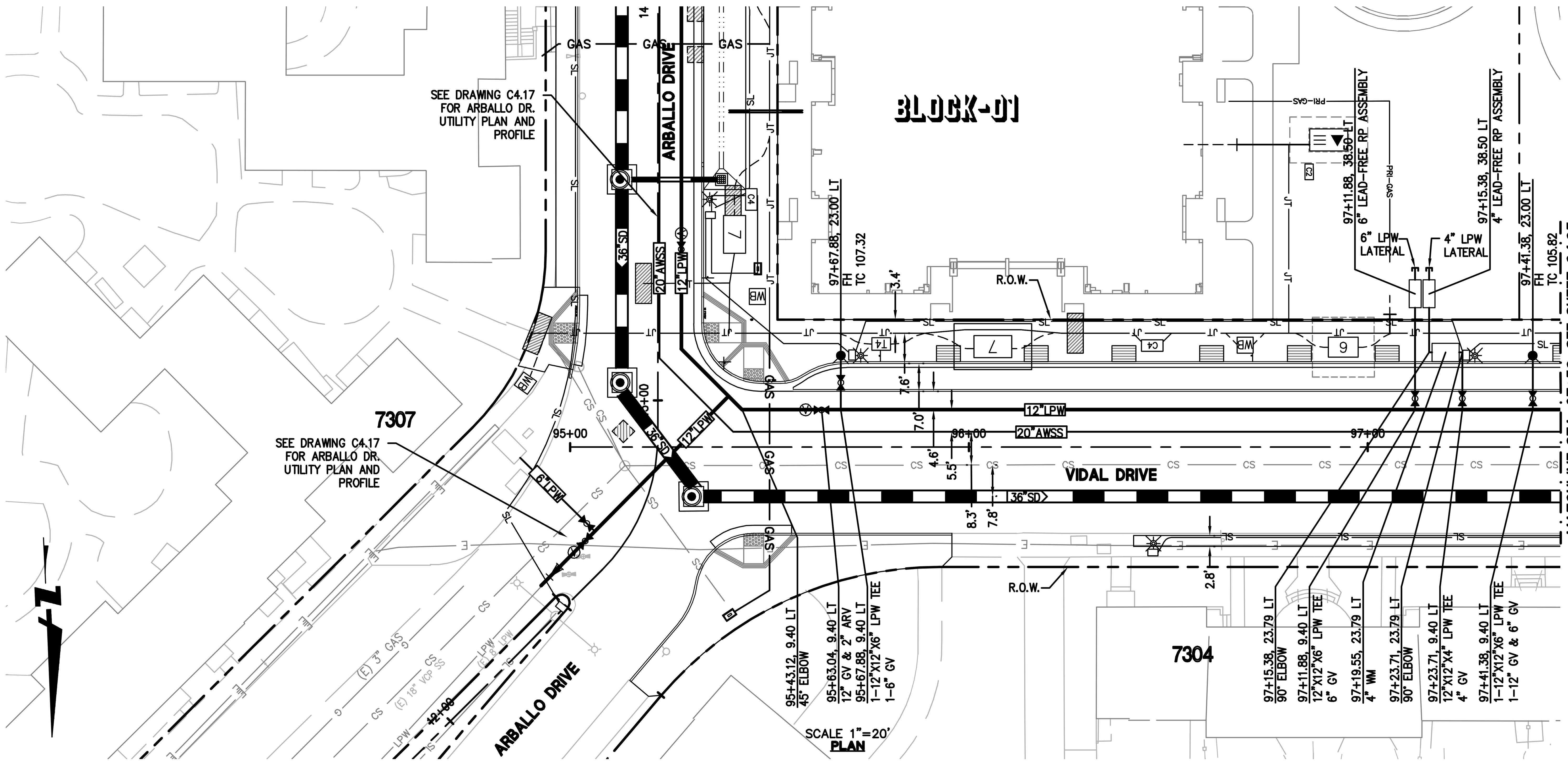

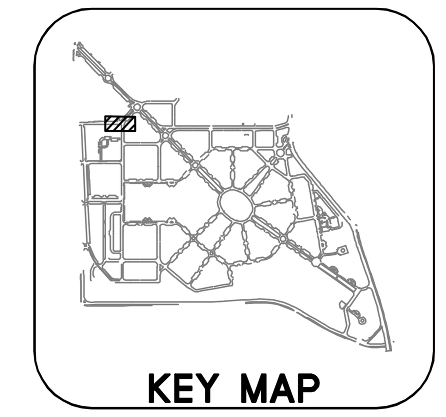

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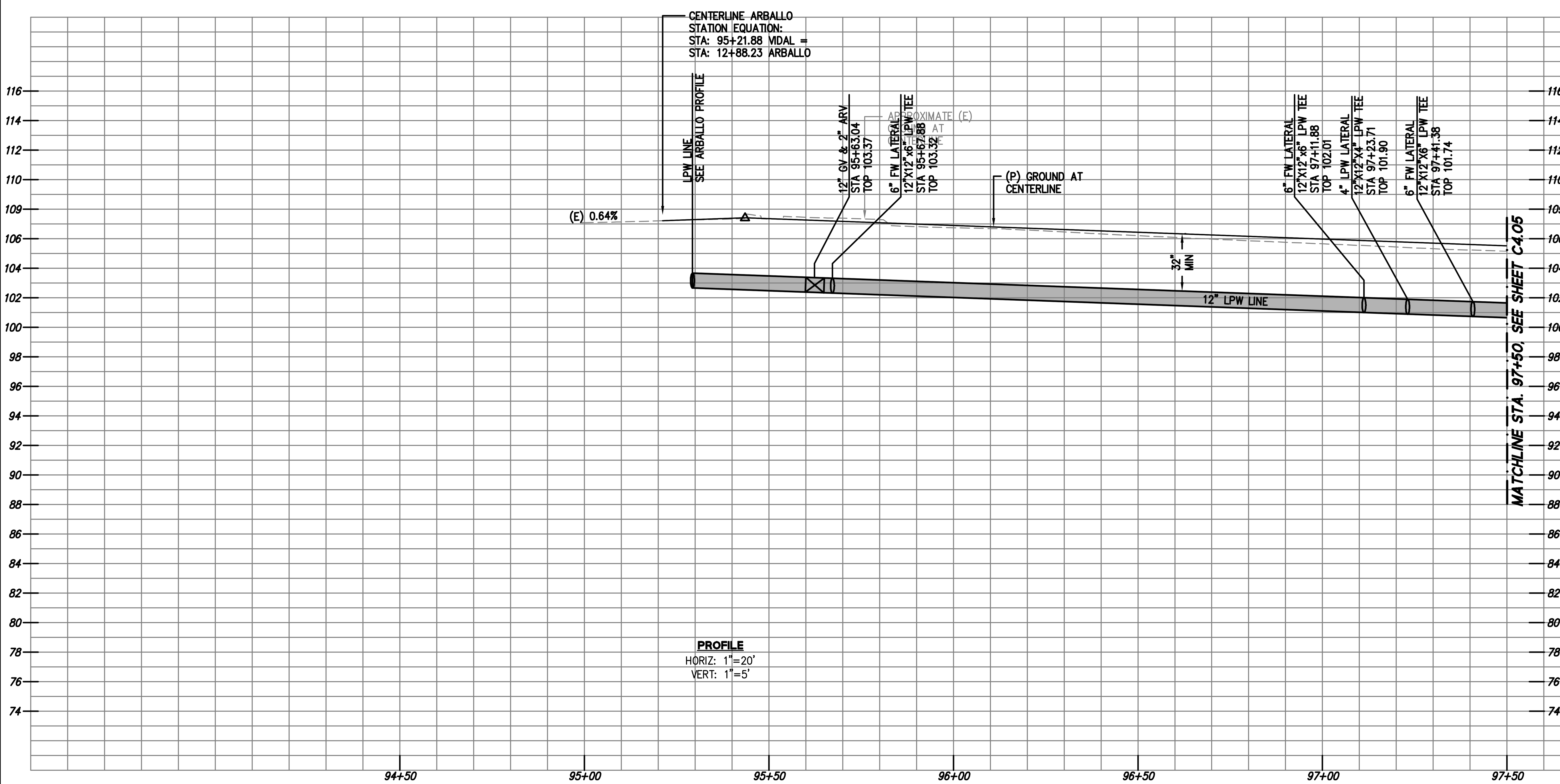

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UTILITY PLAN & PROFILE - VIDAL DRIVE

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Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
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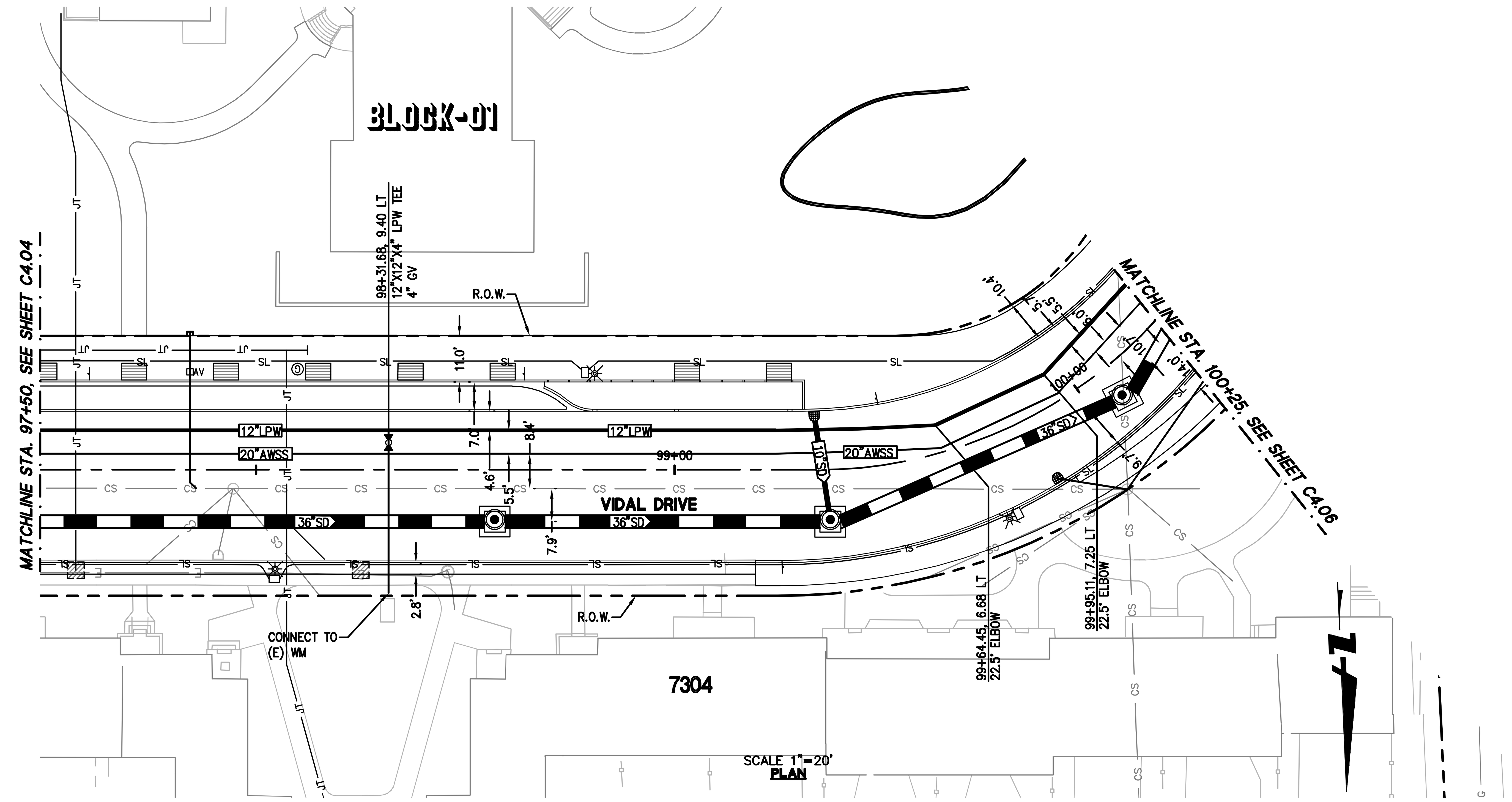

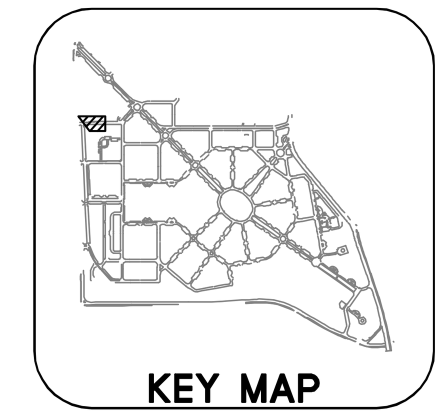

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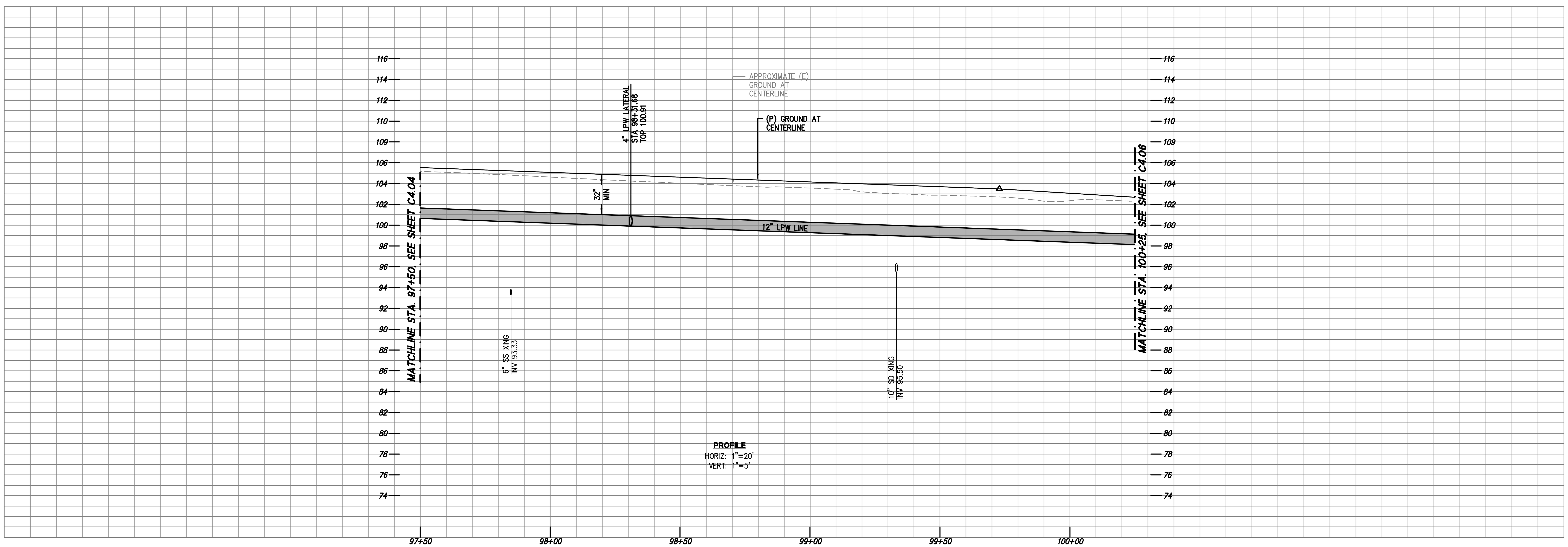

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PHASE 1A STREET IMPROVEMENT PLANS
UTILITY PLAN & PROFILE - VIDAL DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C4.05

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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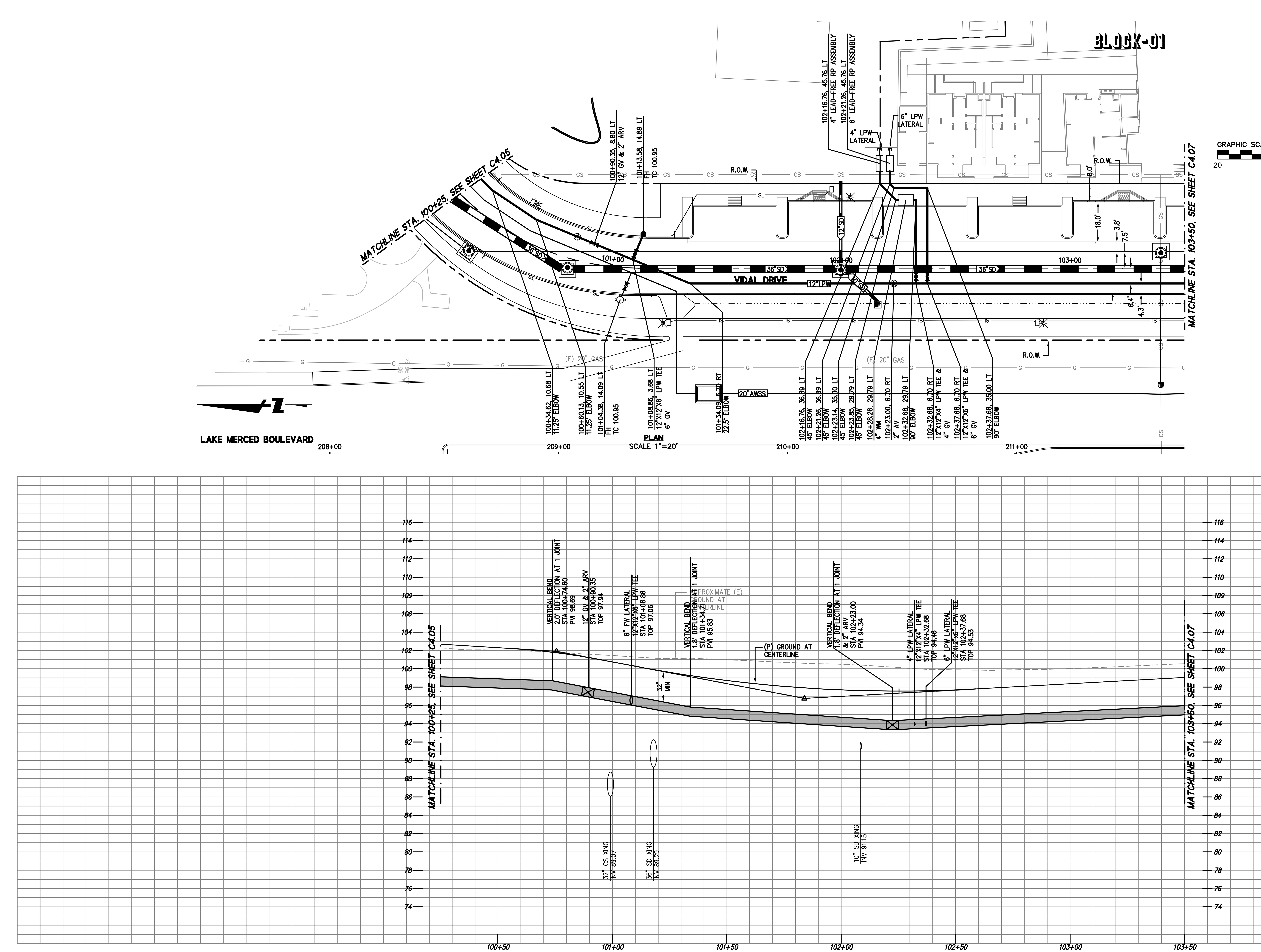

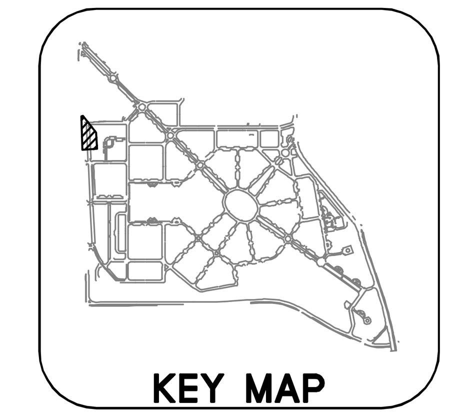

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No.	Revisions

Date: 05/01/17
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Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
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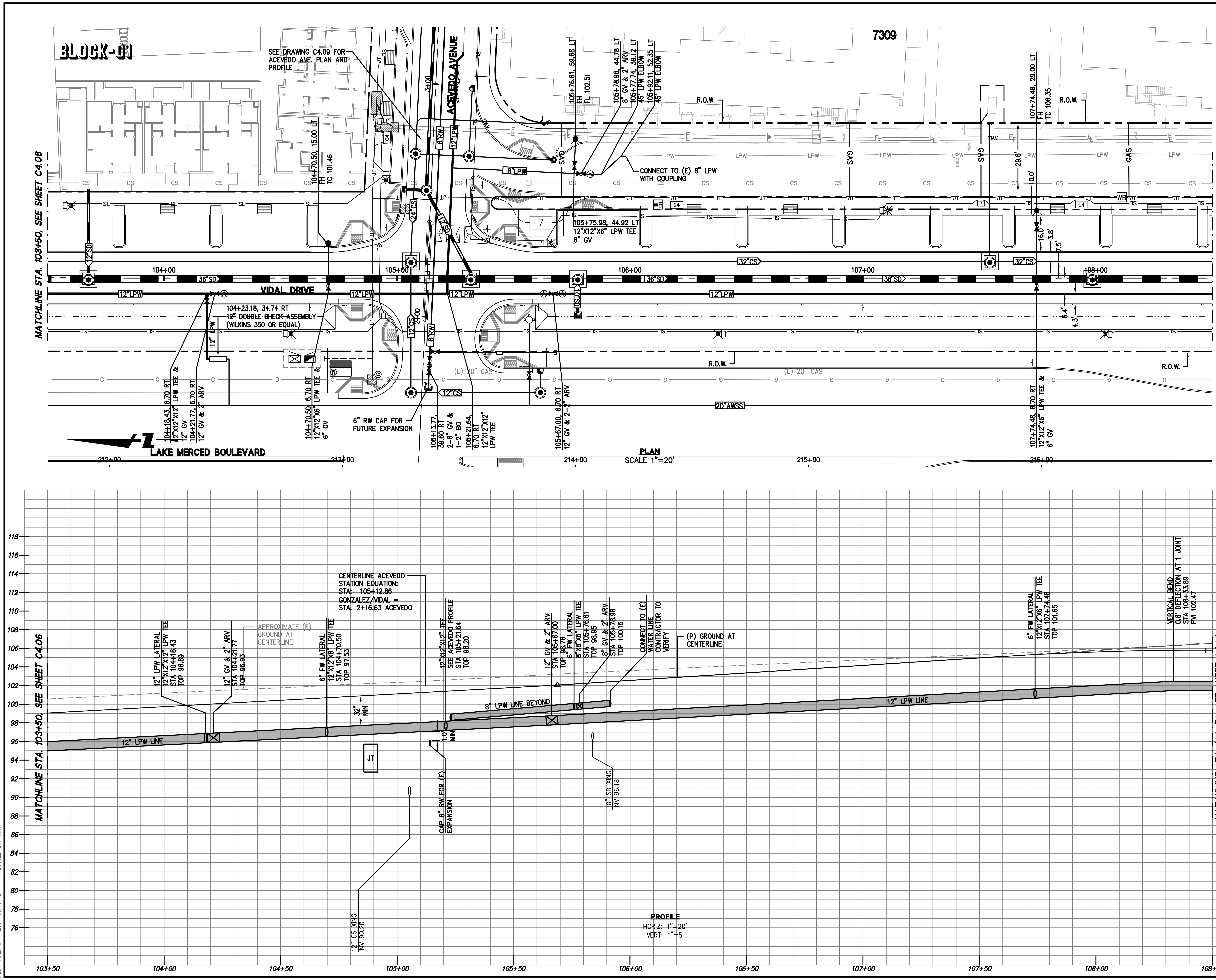
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



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Date: 05/01/17
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Design: TH
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Approved: BS
Job No: 20090086

Drawing Number:
C4.07

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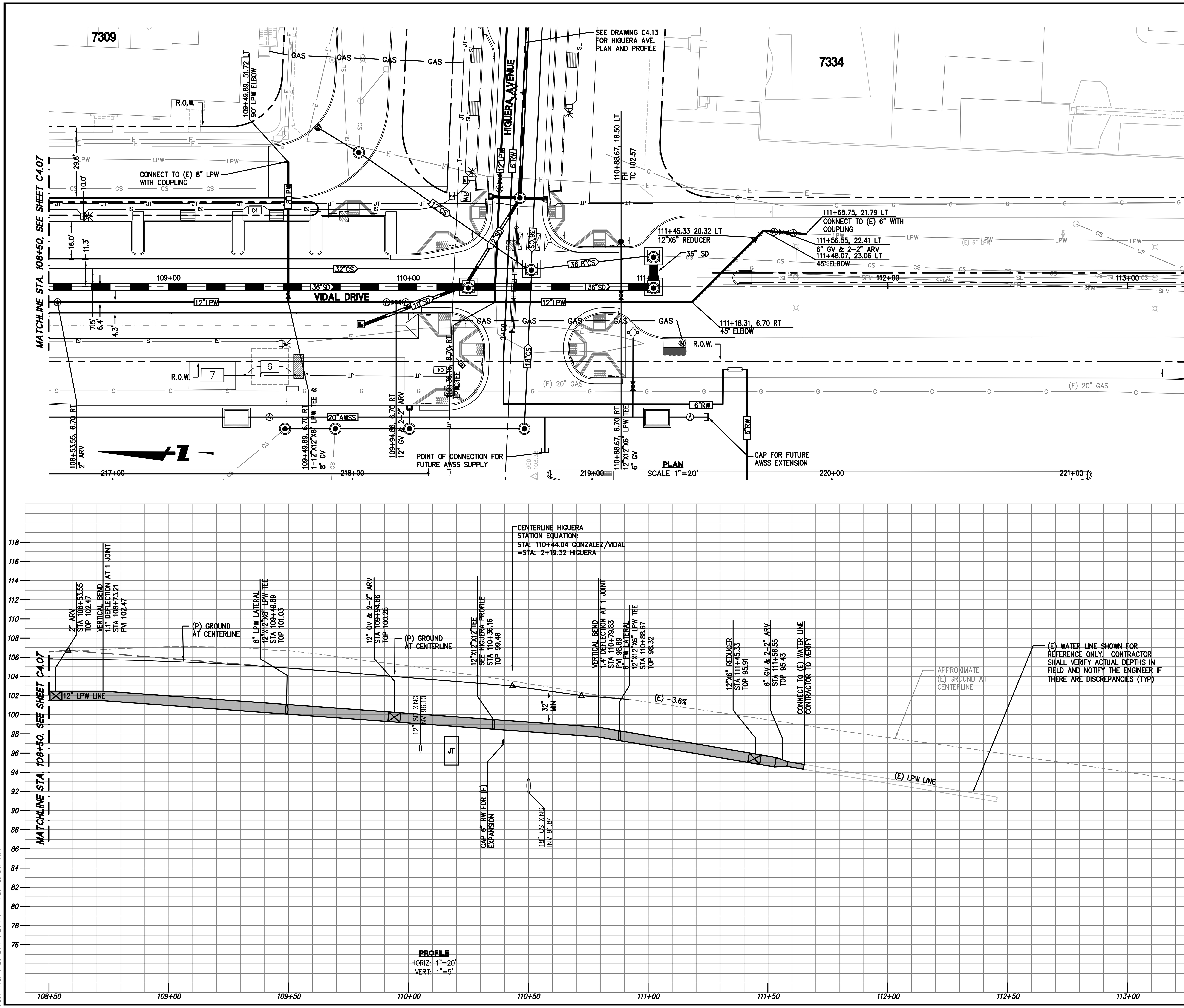

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SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C4.08

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C401-UT-A.dwg (C4.08)
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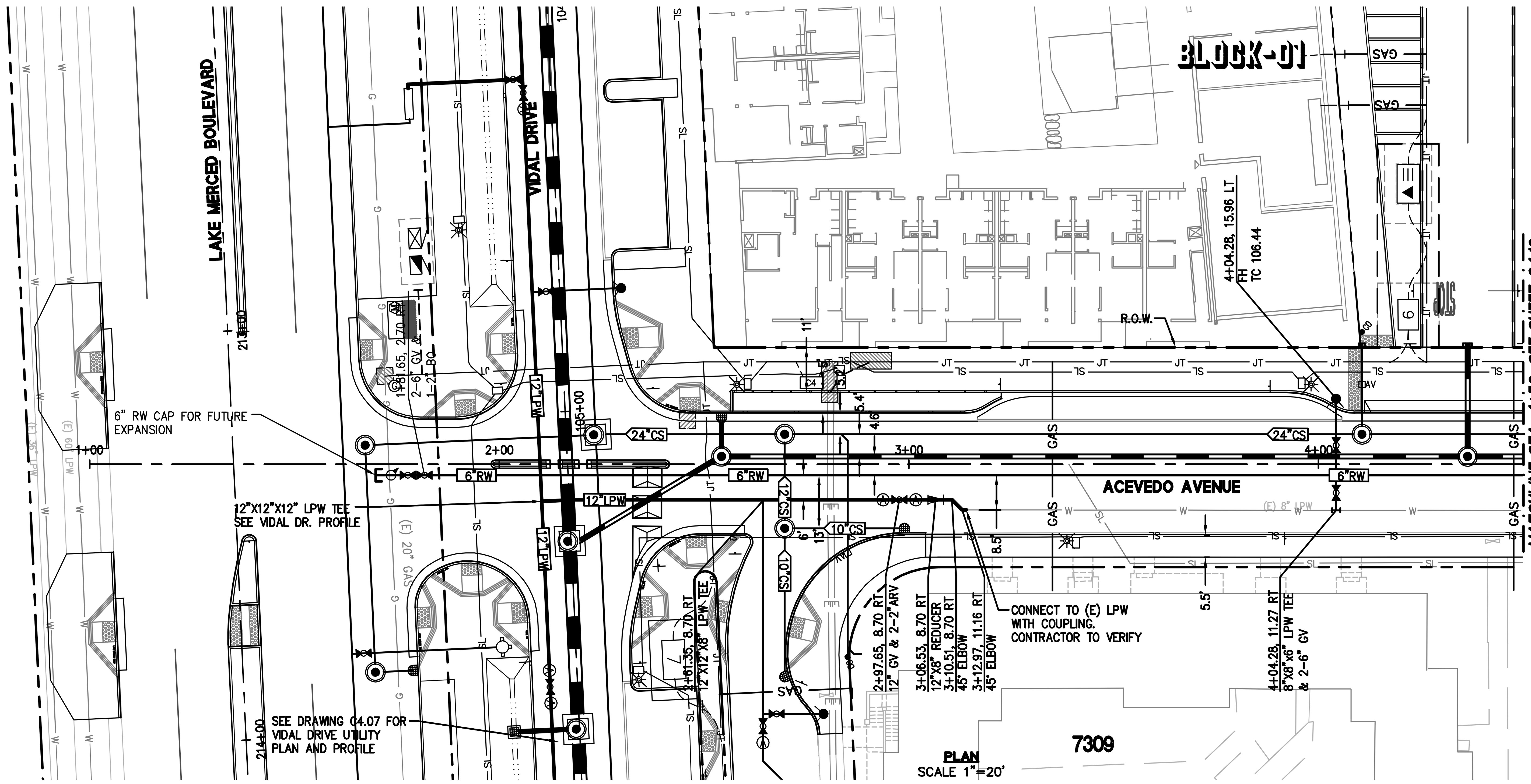
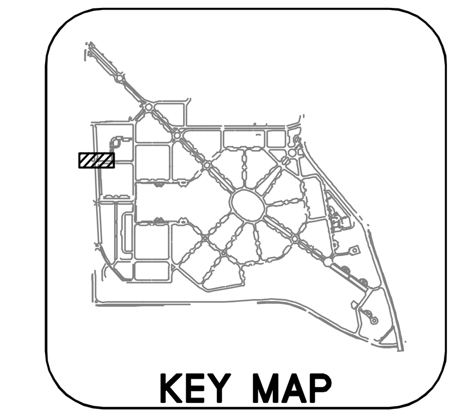
APPROVED SET FOR BOARD SUBMITTAL 05.01.17





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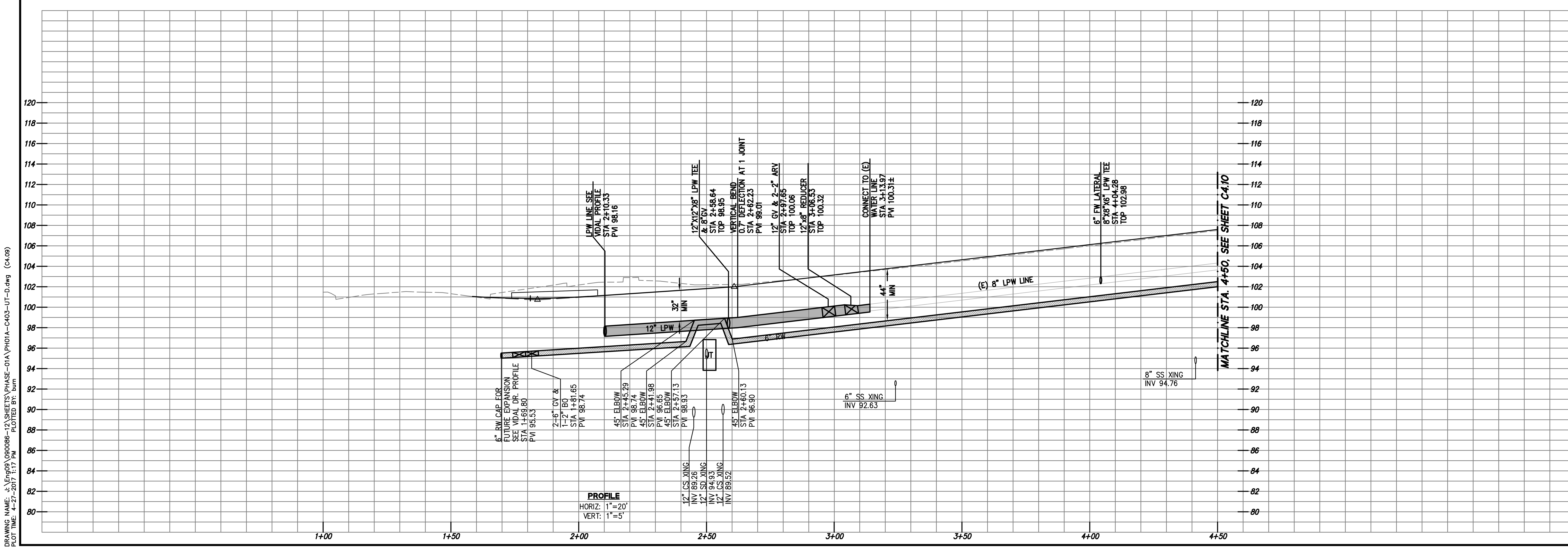

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PLOT TIME: 4-27-2017 1:17 PM PLOTTED BY: bum

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UTILITY PLAN & PROFILE - ACEVEDO AVENUE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
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Approved: BS
Job No: 20090086

Drawing Number:

C4.09

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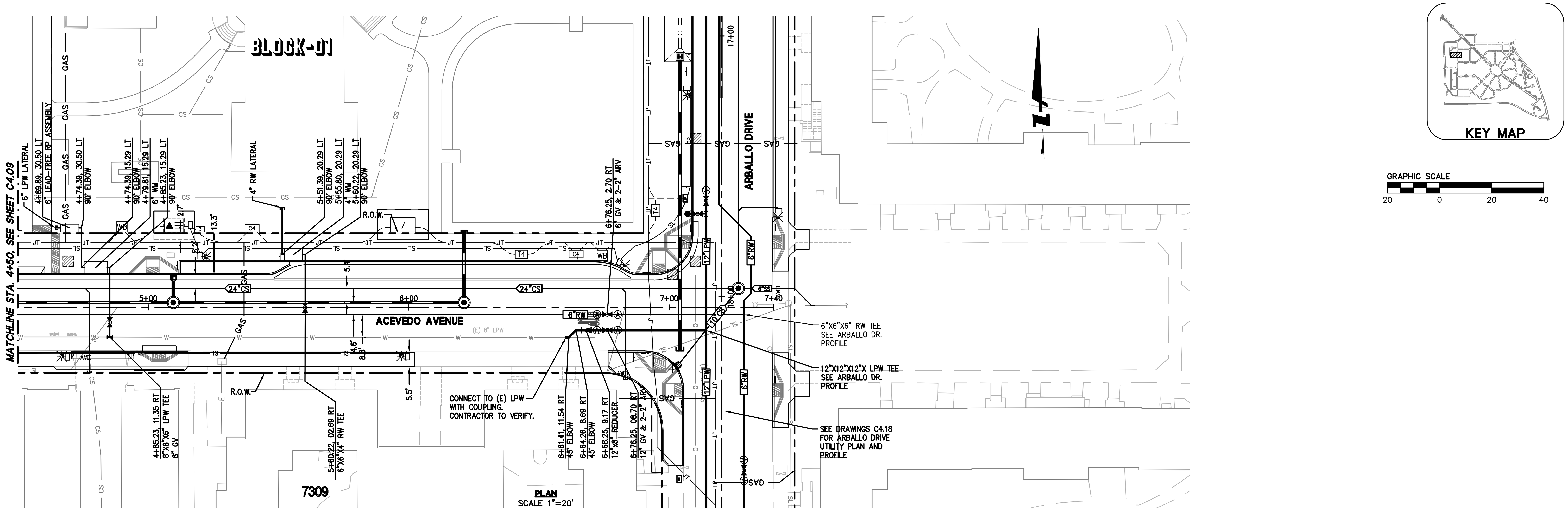

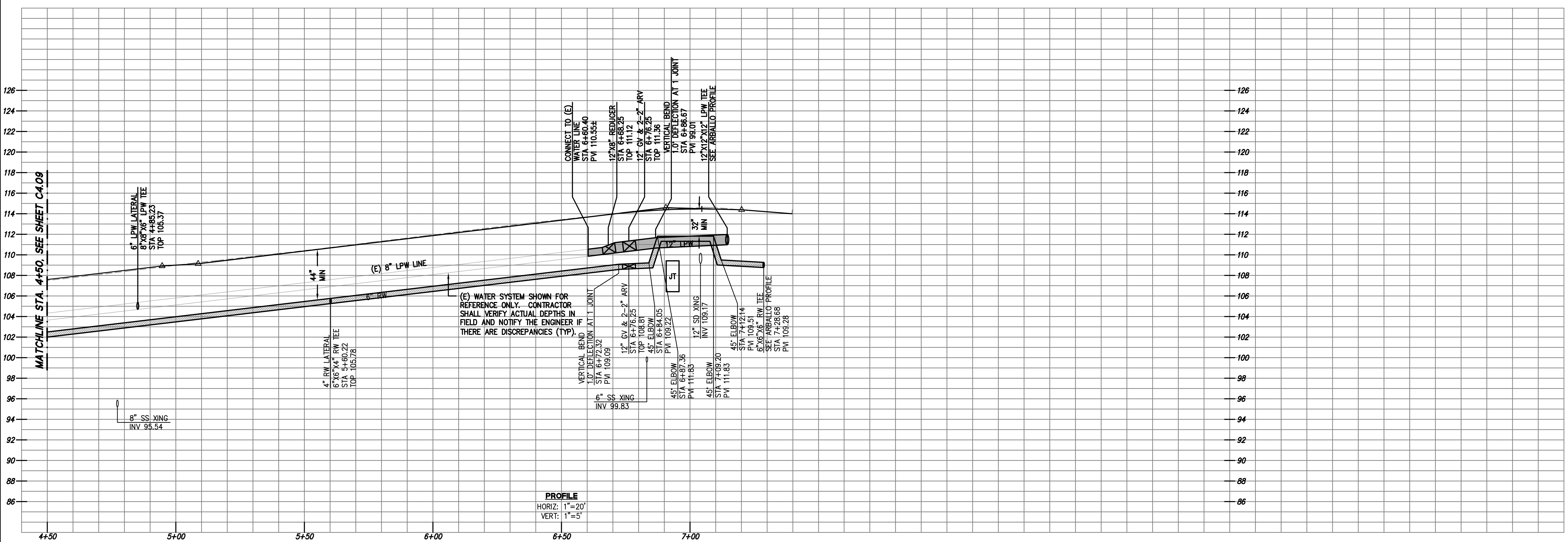

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Approved: BS
Job No: 20090086

Drawing Number:
C4.10

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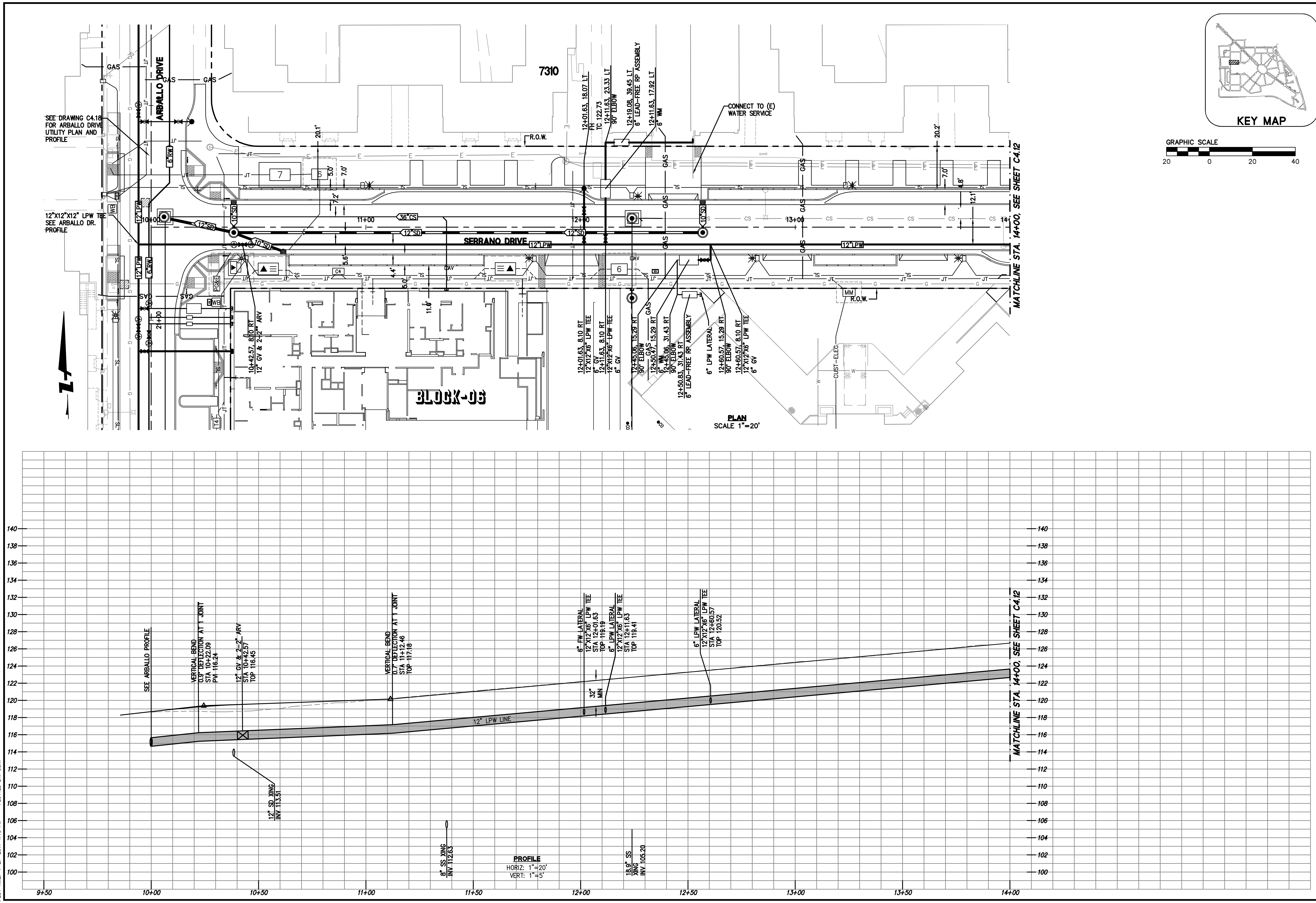

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UTILITY PLAN & PROFILE - SERRANO DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

Date: 05/01/17	
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Approved: BS	
Job No: 20090086	

Drawing Number:

C4.11

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C404-UT-E.dwg (C4.11)
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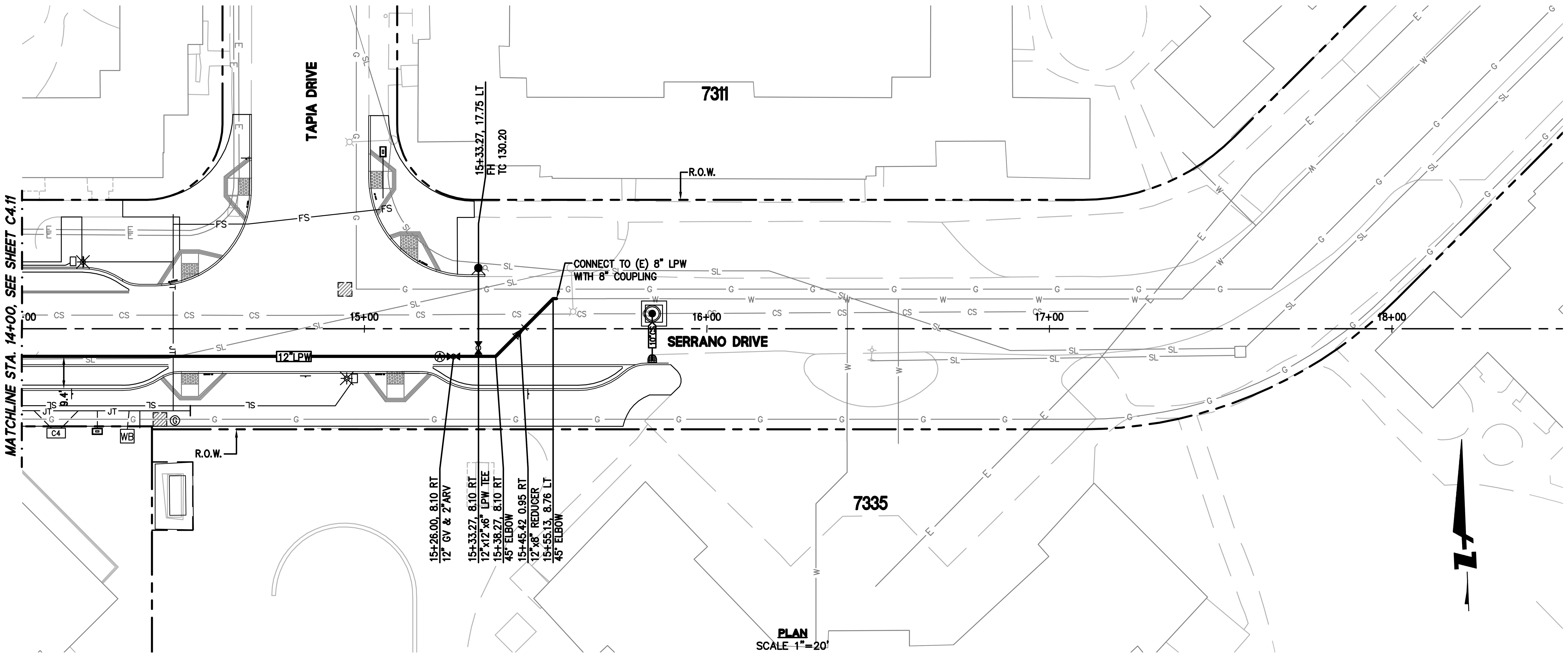

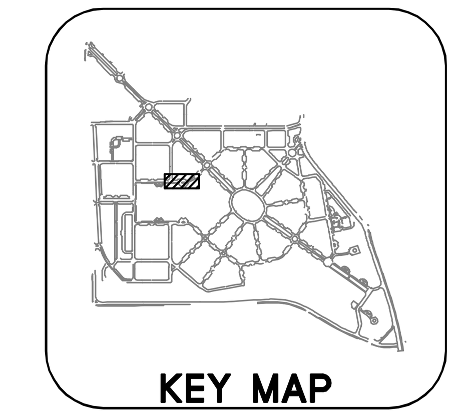

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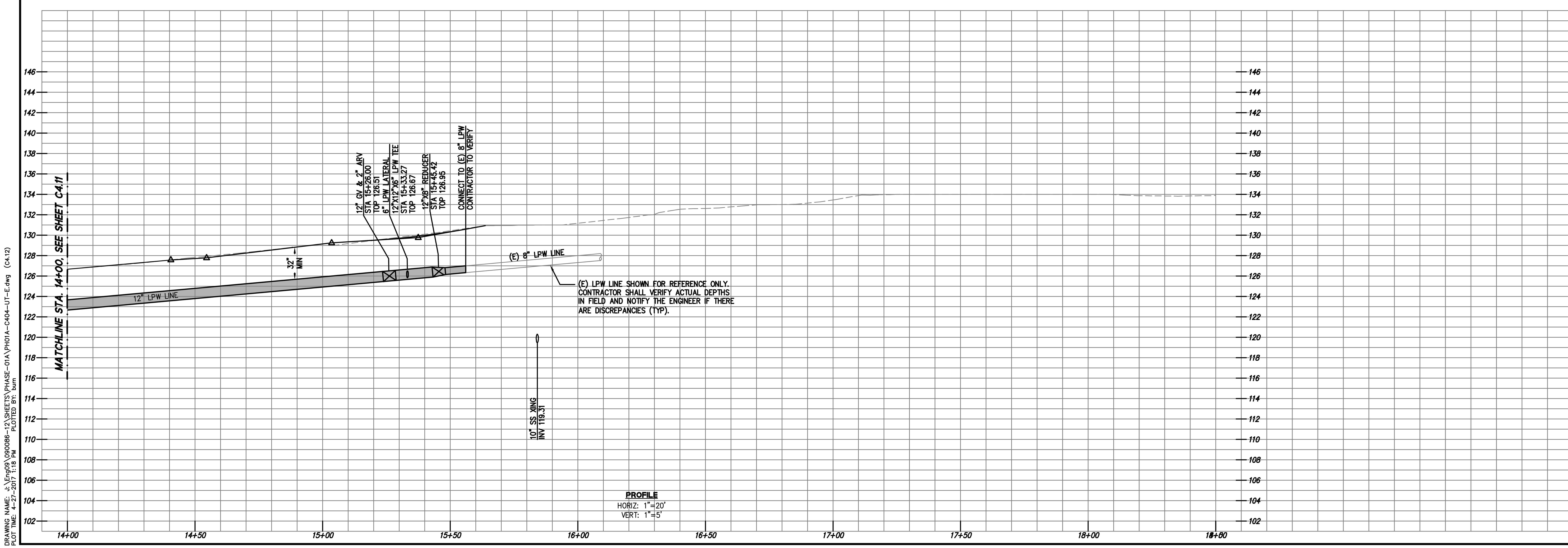

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UTILITY PLAN & PROFILE - SERRANO DRIVE
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

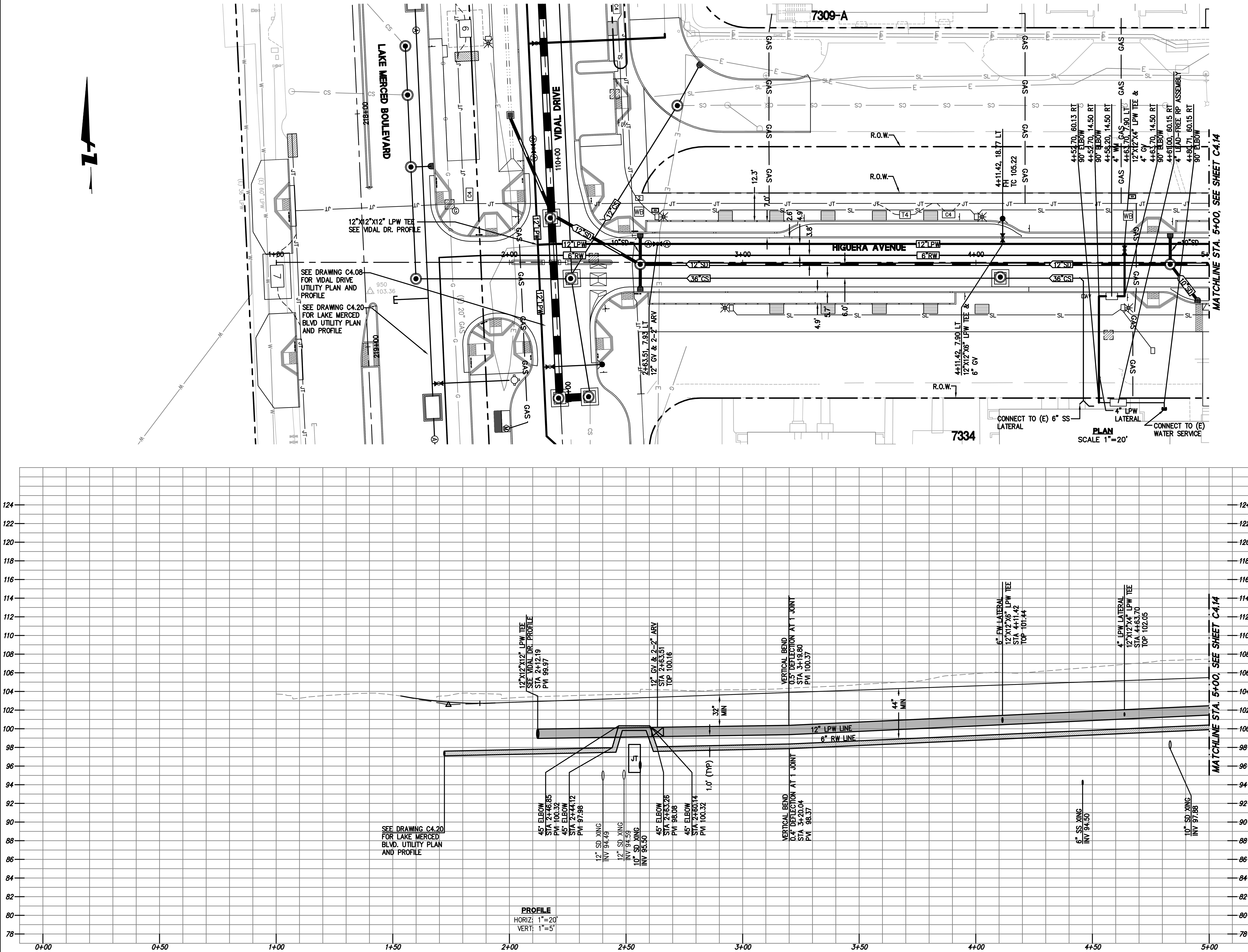
REGISTERED PROFESSIONAL ENGINEER BRIAN K. SCOTT No. 61099 Exp. 12/31/18 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

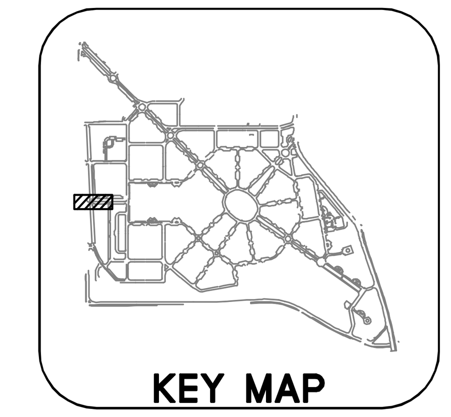
No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C4.12

APPROVED SET FOR BOARD SUBMITTAL 05.01.17





GRAPHIC SCALE
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PHASE 1A STREET IMPROVEMENT PLANS

UTILITY PLAN & PROFILE - HIGUERA AVENUE

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No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C4.13

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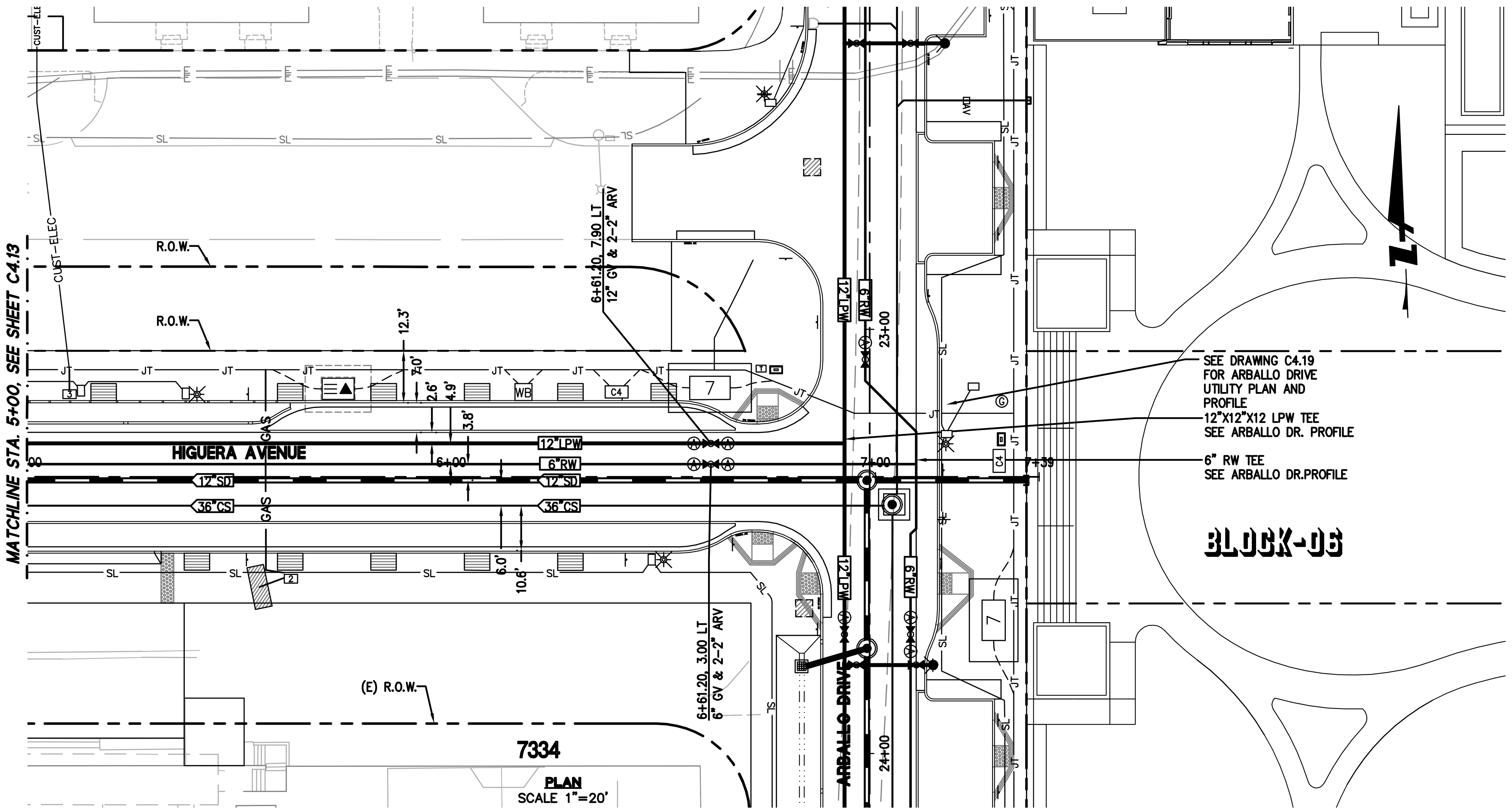
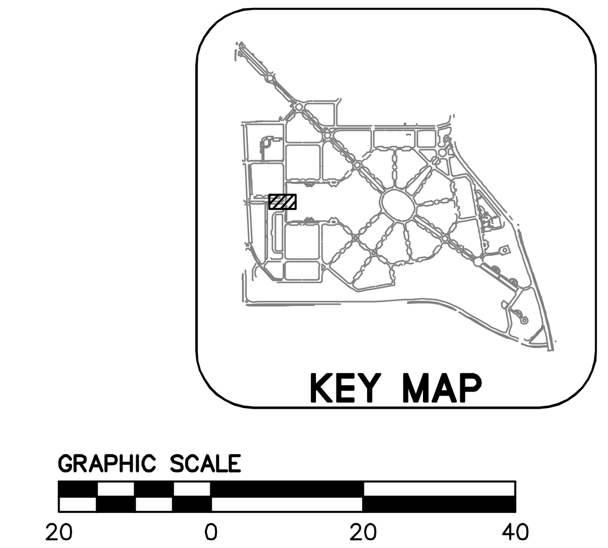
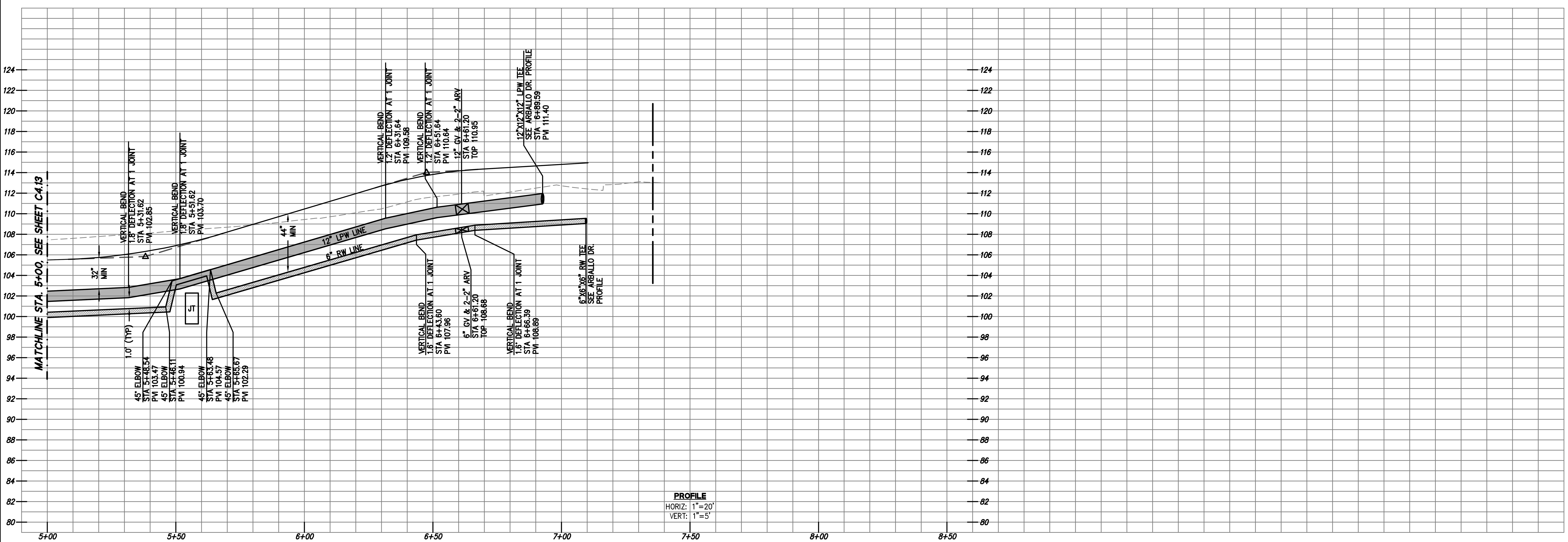
APPROVED SET FOR BOARD SUBMITTAL 05.01.17







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UTILITY PLAN & PROFILE – HIGUERA AVENUE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C4.14

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C405-UT-F.dwg (C4.14)
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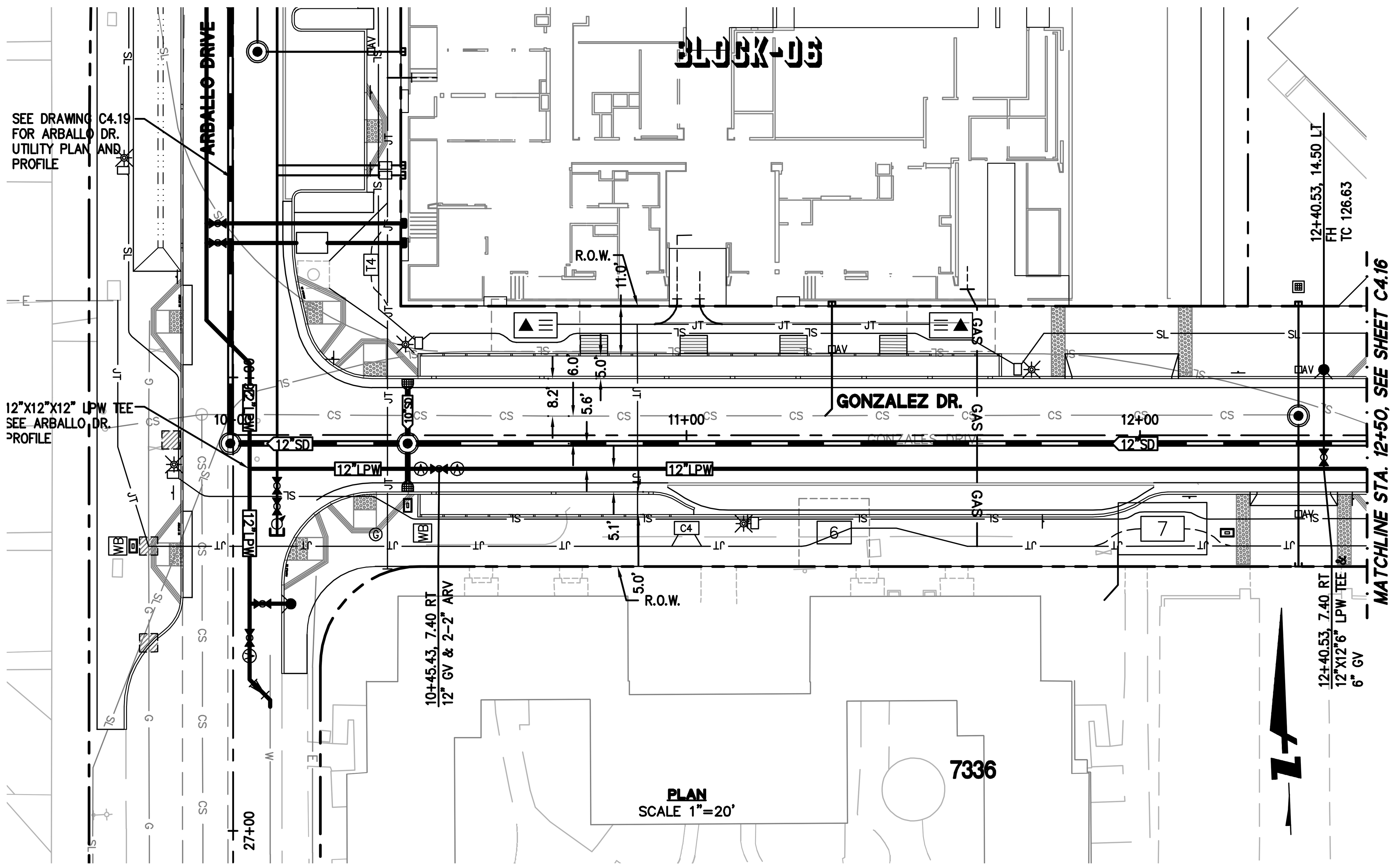

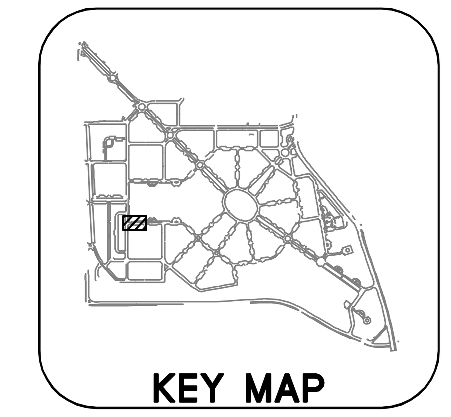

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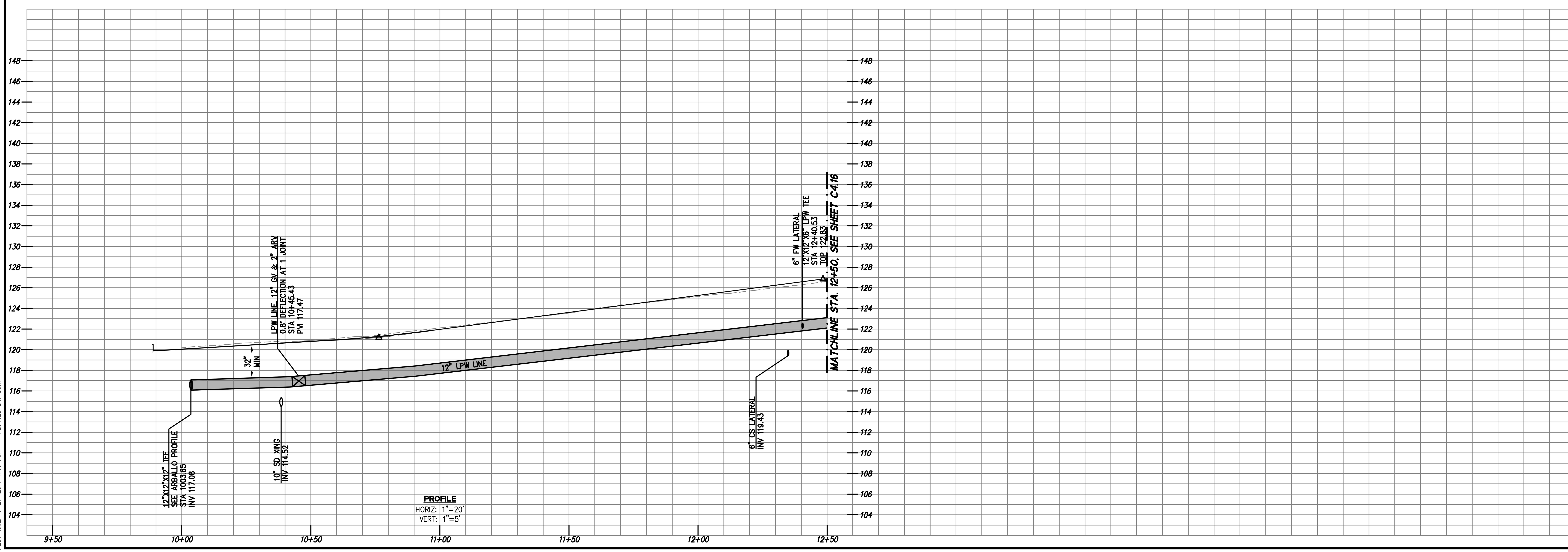

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UTILITY PLAN & PROFILE – GONZALEZ DRIVE

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No.	Revisions

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Scale: AS SHOWN
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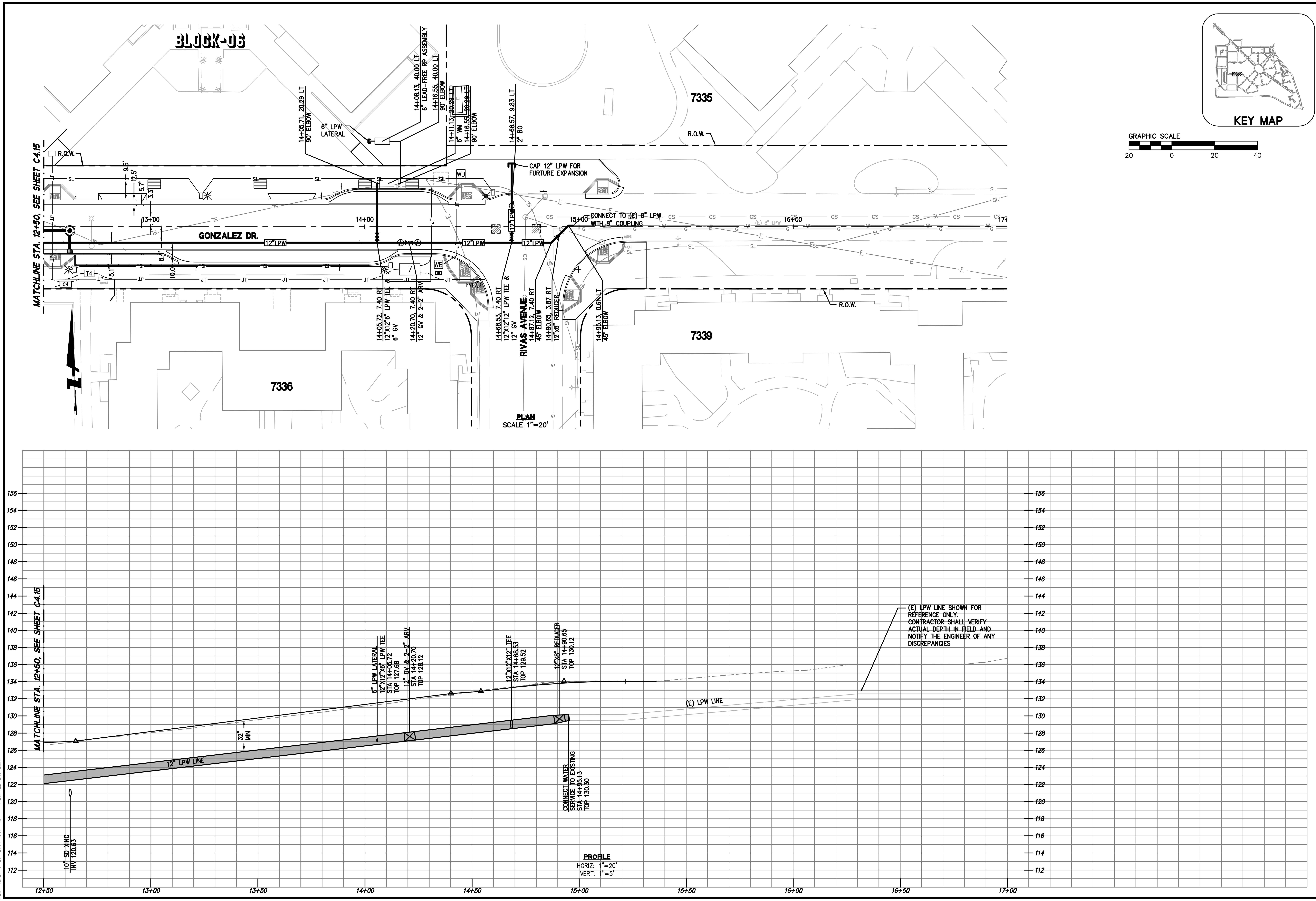
Job No: 20090086

Drawing Number:
C4.15

APPROVED SET FOR BOARD SUBMITTAL 05.01.17



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UTILITY PLAN & PROFILE - GONZALEZ DRIVE

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No.	Revisions

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Approved: BS
Job No: 20090086

Drawing Number:
C4.16

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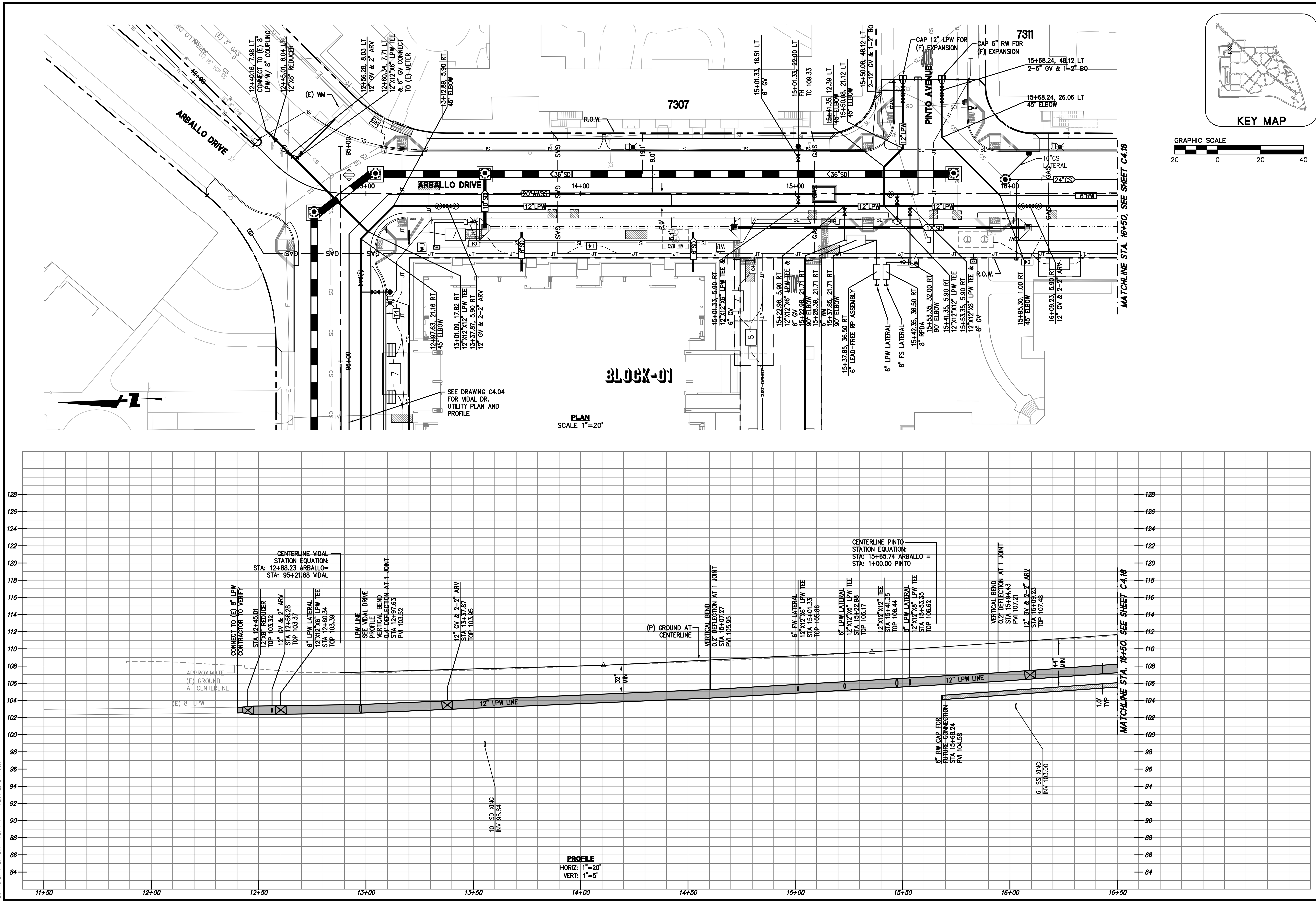

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UTILITY PLAN & PROFILE - ARBALLO DRIVE

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No.	Revisions

Date: 05/01/17
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C4.17

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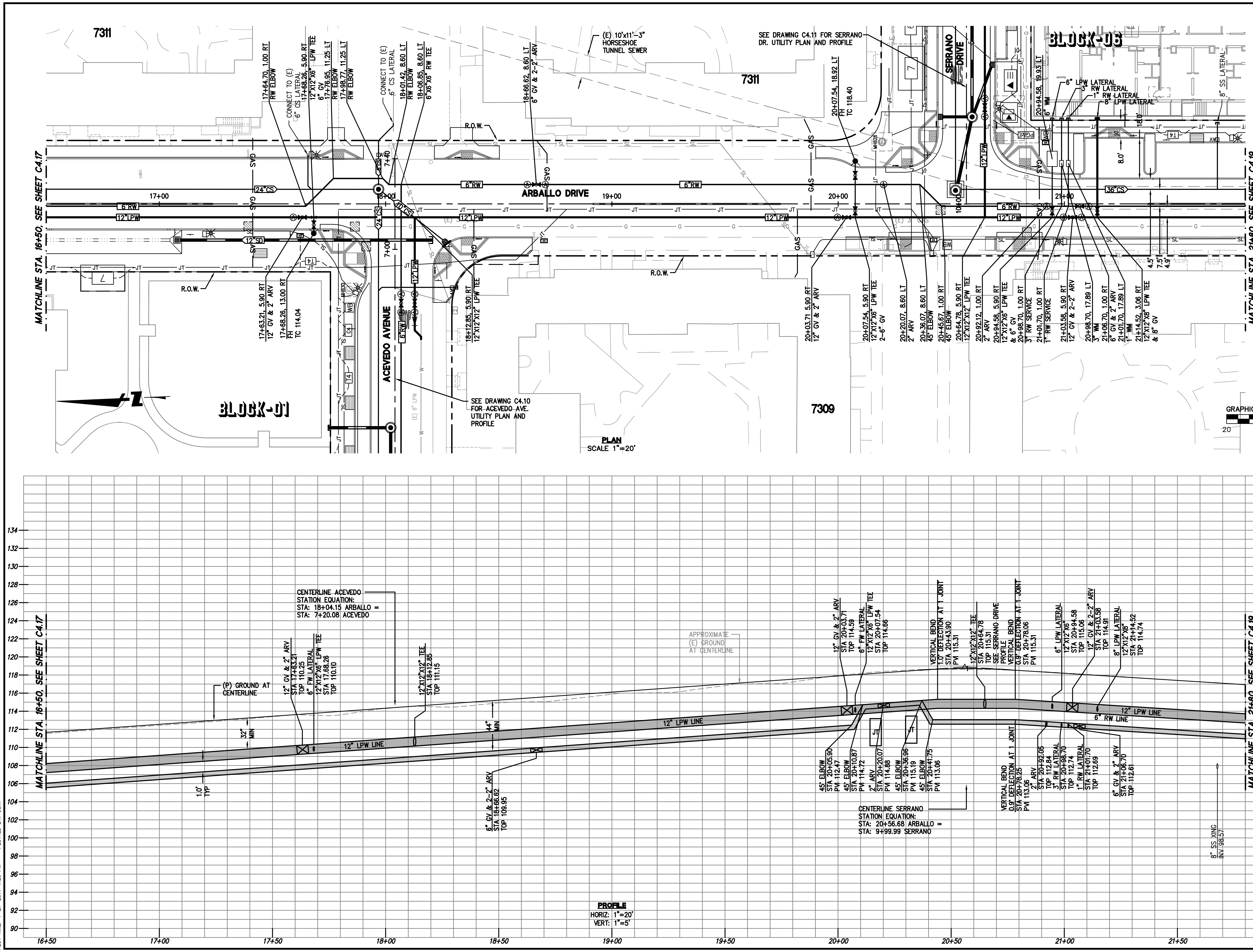

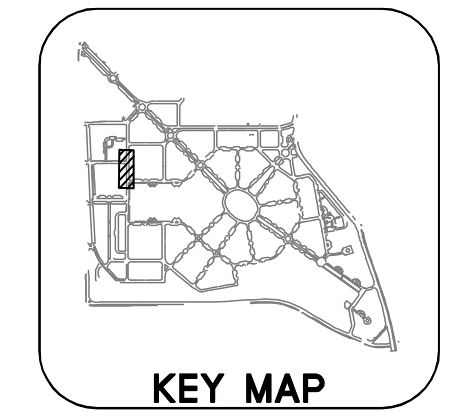

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UTILITY PLAN & PROFILE - ARBALLO DRIVE

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Scale: AS SHOWN
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Drawn: NL
Approved: BS
Job No: 20090086

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C4.18

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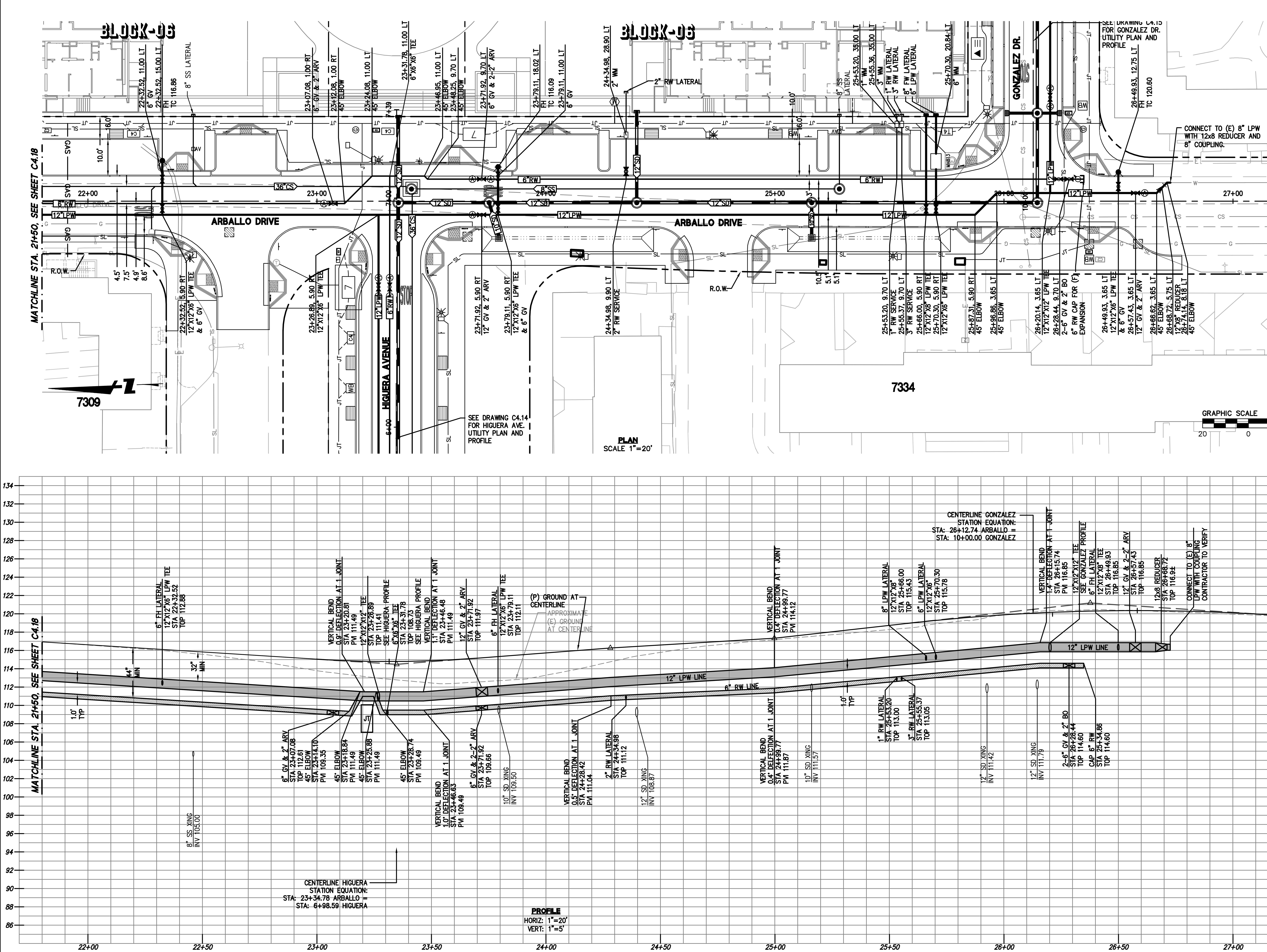

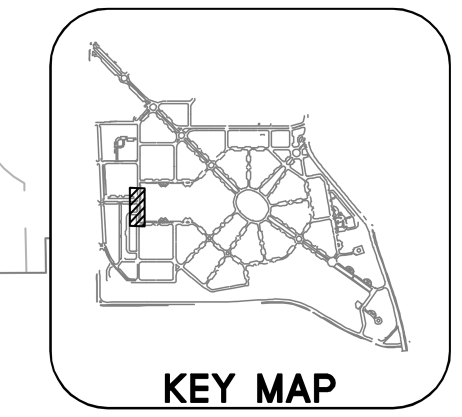

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UTILITY PLAN & PROFILE – ARBALLO DRIVE
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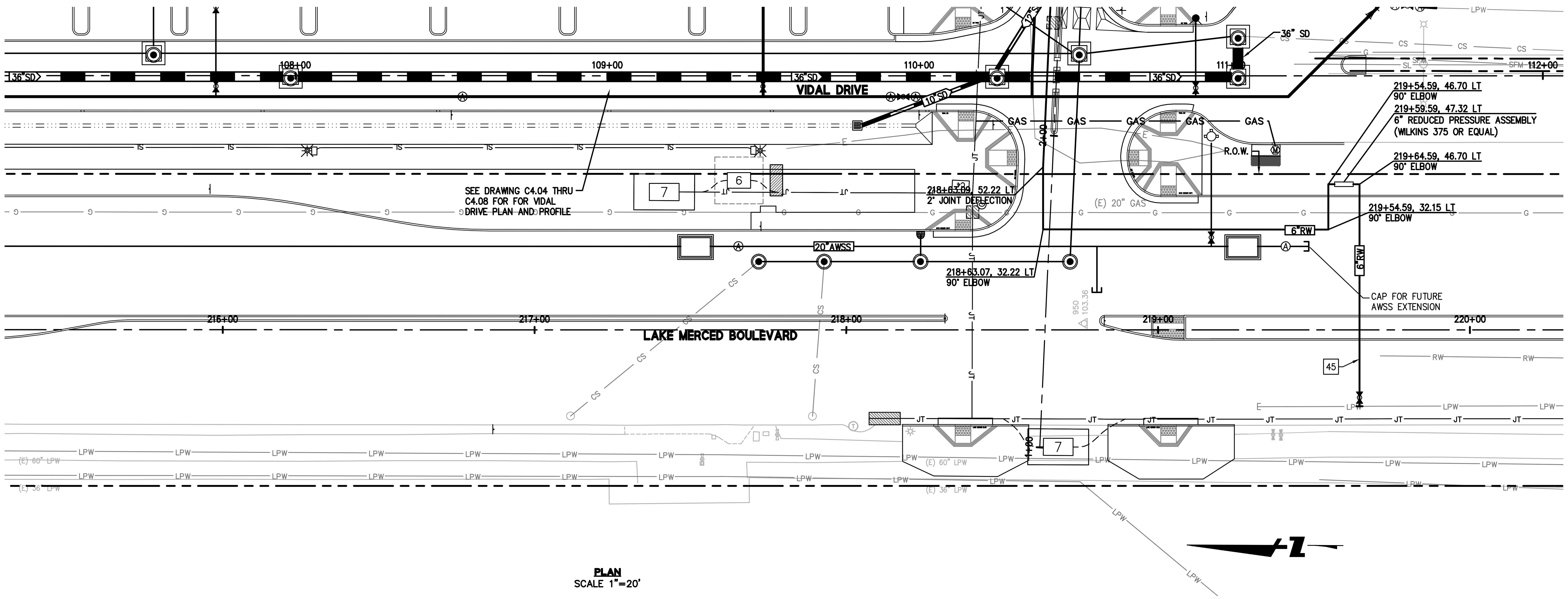

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SCALE 1"=20'

GRAPHIC SCALE
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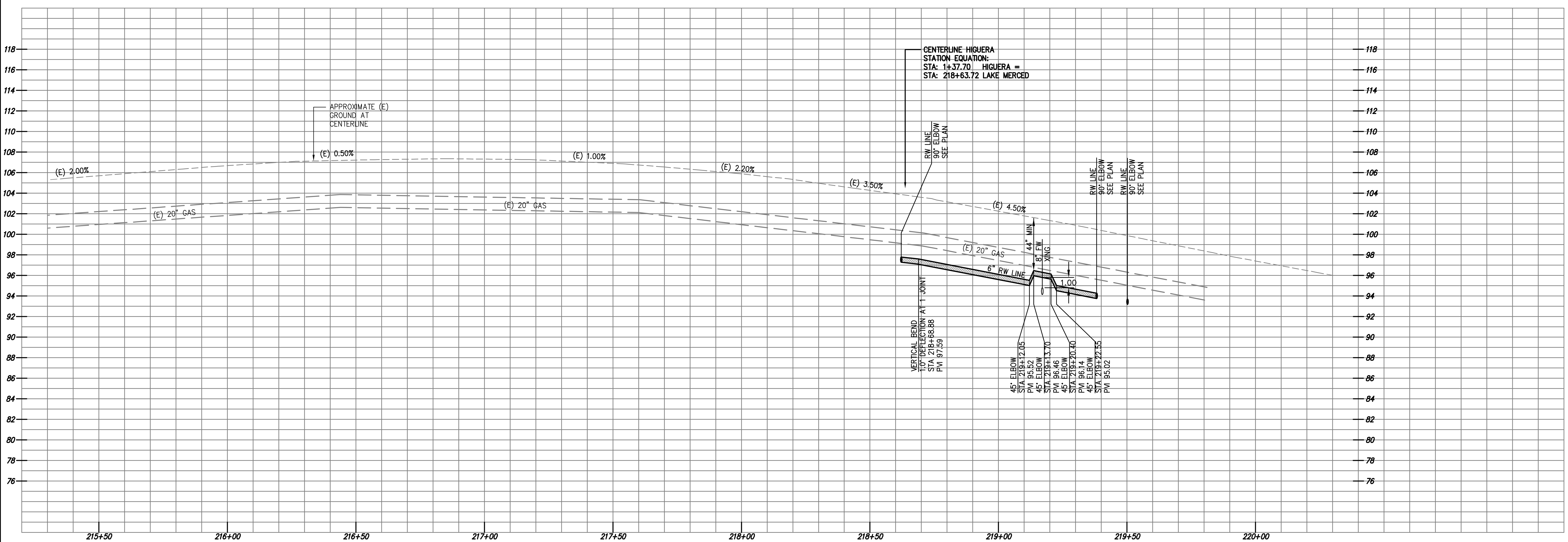
KEY MAP



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UTILITY PLAN & PROFILE - LAKE MERCED BLVD.
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

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Job No: 20090086

Drawing Number:
C4.20

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C408-UT-LMB.dwg (C4-20)
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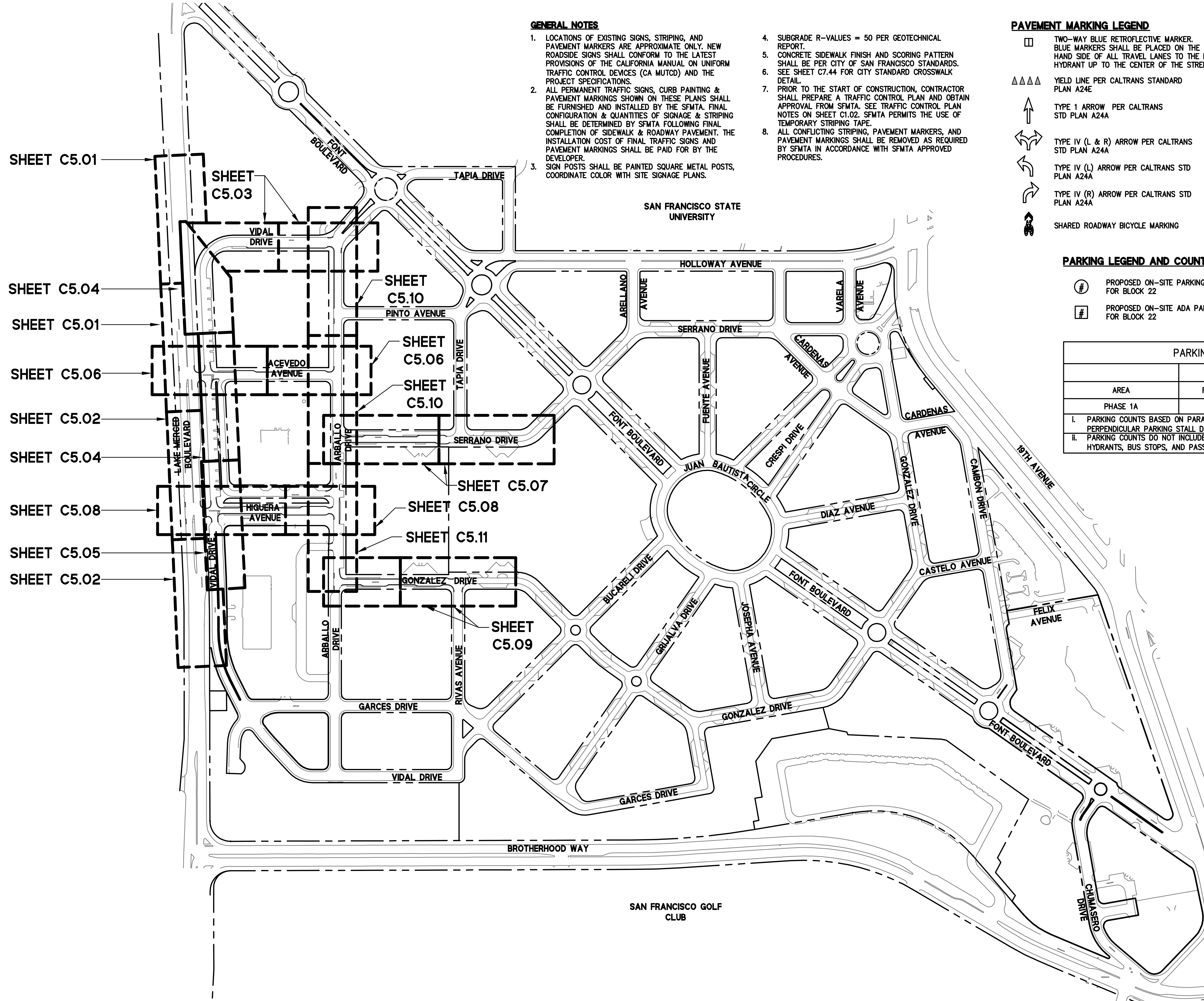
APPROVED SET FOR BOARD SUBMITTAL 05.01.17

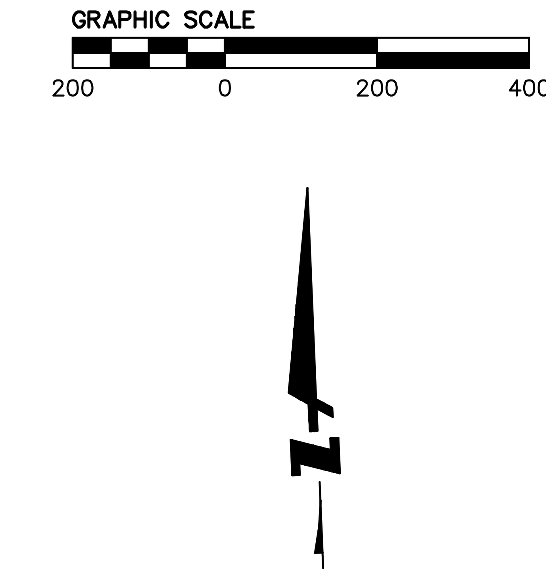
GENERAL NOTES

1. LOCATIONS OF EXISTING SIGNS, STRIPING, AND PAVEMENT MARKERS ARE APPROXIMATE ONLY. NEW ROADSIDE SIGNS SHALL CONFORM TO THE LATEST PROVISIONS OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD) AND THE PROJECT SPECIFICATIONS.
2. ALL PERMANENT TRAFFIC SIGNS, CURB PAINTING & PAVEMENT MARKINGS SHOWN ON THESE PLANS SHALL BE FURNISHED AND INSTALLED BY THE SFMTA. FINAL CONFIGURATION & QUANTITIES OF SIGNAGE & STRIPING SHALL BE DETERMINED BY SFMTA FOLLOWING FINAL COMPLETION OF SIDEWALK & ROADWAY PAVEMENT. THE INSTALLATION COST OF FINAL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE PAID FOR BY THE DEVELOPER.
3. SIGN POSTS SHALL BE PAINTED SQUARE METAL POSTS, COORDINATE COLOR WITH SITE SIGNAGE PLANS.
4. SUBGRADE R-VALUES = 50 PER GEOTECHNICAL REPORT.
5. CONCRETE SIDEWALK FINISH AND SCORING PATTERN SHALL BE PER CITY OF SAN FRANCISCO STANDARDS.
6. SEE SHEET C7.44 FOR CITY STANDARD CROSSWALK DETAIL.
7. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM SFMTA. SEE TRAFFIC CONTROL PLAN NOTES ON SHEET C1.02. SFMTA PERMITS THE USE OF TEMPORARY STRIPING TAPE.
8. ALL CONFLICTING STRIPING, PAVEMENT MARKERS, AND PAVEMENT MARKINGS SHALL BE REMOVED AS REQUIRED BY SFMTA IN ACCORDANCE WITH SFMTA APPROVED PROCEDURES.



PAVEMENT MARKING LEGEND

- TWO-WAY BLUE RETROFLECTIVE MARKER. BLUE MARKERS SHALL BE PLACED ON THE LEFT HAND SIDE OF ALL TRAVEL LANES TO THE FIRE HYDRANT UP TO THE CENTER OF THE STREET.
- YIELD LINE PER CALTRANS STANDARD PLAN A24E
- TYPE 1 ARROW PER CALTRANS STD PLAN A24A
- TYPE IV (L & R) ARROW PER CALTRANS STD PLAN A24A
- TYPE IV (L) ARROW PER CALTRANS STD PLAN A24A
- TYPE IV (R) ARROW PER CALTRANS STD PLAN A24A
- SHARED ROADWAY BICYCLE MARKING



PARKING LEGEND AND COUNT SUMMARY

- (#) PROPOSED ON-SITE PARKING FOR BLOCK 22
- [#] PROPOSED ON-SITE ADA PARKING FOR BLOCK 22

PARKING COUNT SUMMARY			
	PARKING TYPE		
AREA	REGULAR	ADA	TOTAL
PHASE 1A	187	15	202
i. PARKING COUNTS BASED ON PARALLEL PARKING STALL DIMENSIONS OF 7' X 22' AND PERPENDICULAR PARKING STALL DIMENSIONS OF 9' X 18'.			
ii. PARKING COUNTS DO NOT INCLUDE A POSSIBLE REDUCTION IN NUMBER DUE TO FIRE HYDRANTS, BUS STOPS, AND PASSENGER/COMMERCIAL LOADING ZONES.			

SIGN AND TRAFFIC LINE LEGEND

- 1 — CALTRANS TRAFFIC LINE PER DETAIL 1 ON STD PLAN A20A
- 8 — CALTRANS TRAFFIC LINE PER DETAIL 8 ON STD PLAN A20A
- 21 — CALTRANS TRAFFIC LINE PER DETAIL 21 ON STD PLAN A20A
- 24 — CALTRANS TRAFFIC LINE PER DETAIL 24 ON STD PLAN A20B
- 28 — CALTRANS TRAFFIC LINE PER DETAIL 28 ON STD PLAN A20B
- 38A — CALTRANS TRAFFIC LINE PER DETAIL 38A ON STD PLAN A20D
- A24E — CALTRANS YIELD LINE AND LIMIT LINE PER STD PLAN A24E
- R1-1 — "STOP" R1-1 SIGN
- R1-5a — "YIELD HERE TO PEDESTRIANS" R1-5a SIGN
- R2-1 — "SPEED LIMIT XX MPH" SIGN
- R3-5 — "(RIGHT ARROW) ONLY" R3-5 SIGN
- R3-7 — "RIGHT LANE MUST TURN RIGHT" R3-7 SIGN
- R4-7A — "KEEP (RIGHT ARROW) RIGHT" R4-7A SIGN
- R6-1 — "ONE WAY" R6-1 SIGN
- R10-6 — "STOP HERE ON RED" R10-6 SIGN
- R26-F (A) — "NO STOPPING FIRE LANE" R26-F SIGN
- W11-2 — PEDESTRIAN CROSSING W11-2 SIGN
- W16-9P — "AHEAD" W16-9P SIGN
- ADA-1 — ADA SIGN DETAIL "ACCESSIBLE STALL SIGNAGE"

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PHASE 1A STREET IMPROVEMENT PLANS
SIGNING, STRIPING & PAVING PLAN - KEY MAP

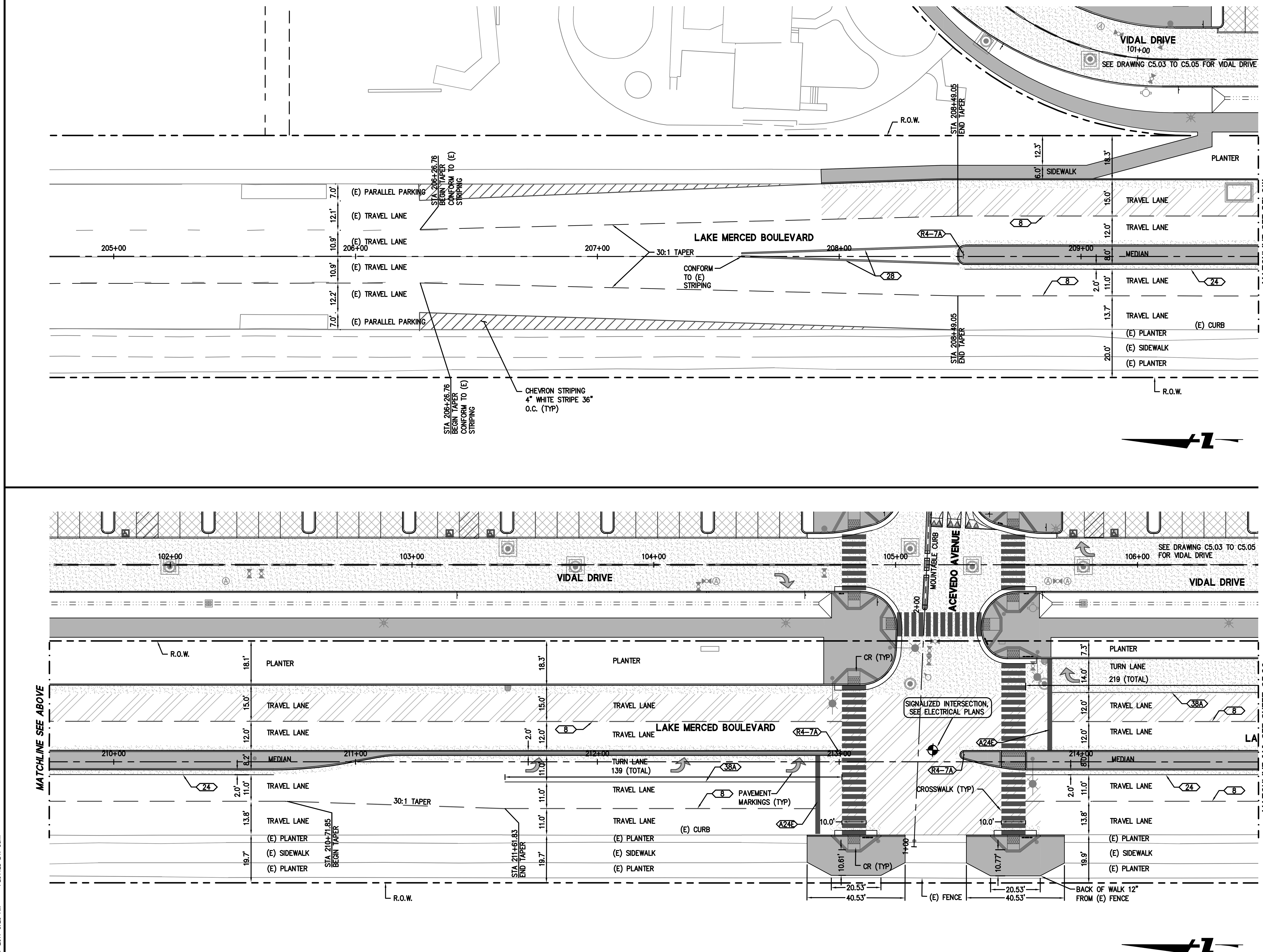
SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=200'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number: C5.00

DRAWING NAME: \\Bkf-rc\data\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C500-SS.dwg (C5.00)
PLOT TIME: 5-1-2017 12:07 PM PLOTTED BY: hwff



KEY MAP

GRAPHIC SCALE
20 0 20 40

PAVING LEGEND

CITY STANDARD SIDEWALKS & DRIVEWAYS
3.5" CONC/PREPARED SUBGRADE PER SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 204.

AC OVERLAY
2" GRIND AND 2" MIN. AC OVERLAY

CITY STANDARD STREET (RESIDENTIAL)
2" MIN. AC/8" MIN. CONC/PREPARED SUBGRADE, SEE SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 200 THRU 221 FOR ADDITIONAL INFORMATION

CONCRETE PAVING
8"CONC/6" CLASS 2 AB COMPACTED TO 95%

PLANING WEDGE
SEE SHEET C7.19, DETAIL 5.

PERMEABLE PAVING

VEHICULAR AREAS (PERM CONC)
9" PERVIOUS CONC / 6" GRAVEL (ASTM NO. 3 OR 57) / SUBGRADE COMPACTED TO 95%

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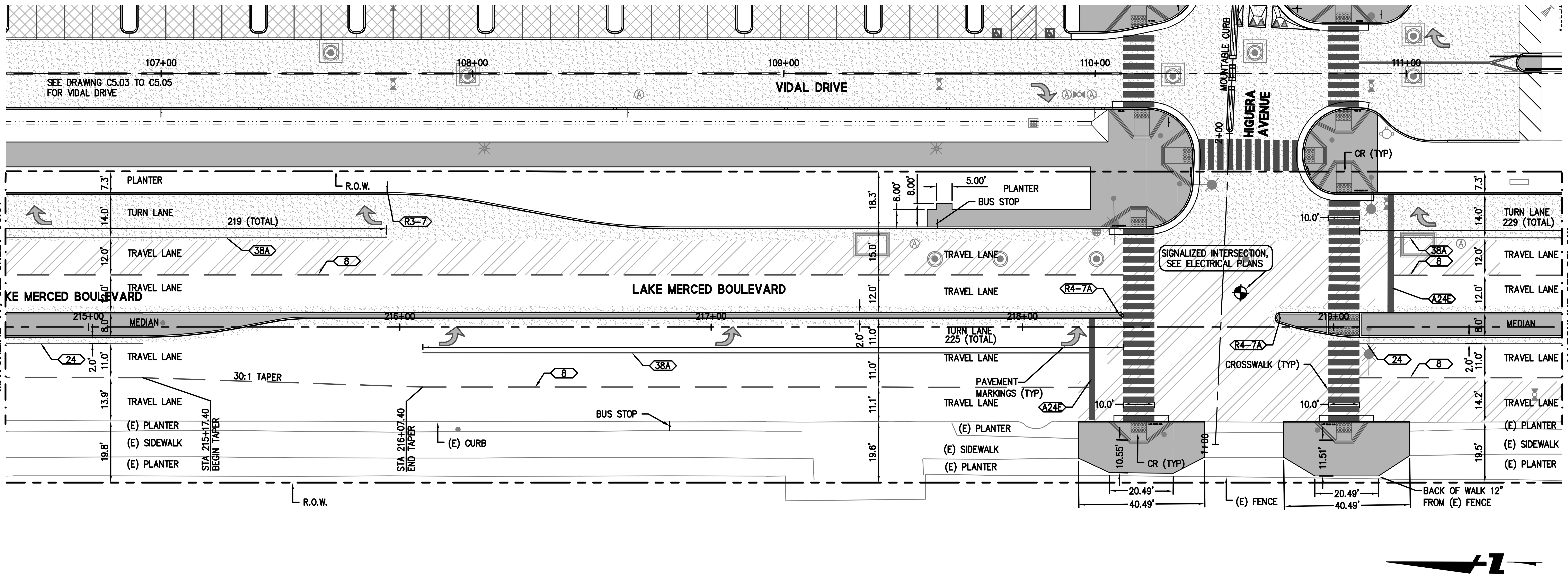
PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
SIGNING, STRIPING & PAVING PLAN - LAKE MERCED BLVD
SAN FRANCISCO, SAN FRANCISCO COUNTY, CALIFORNIA

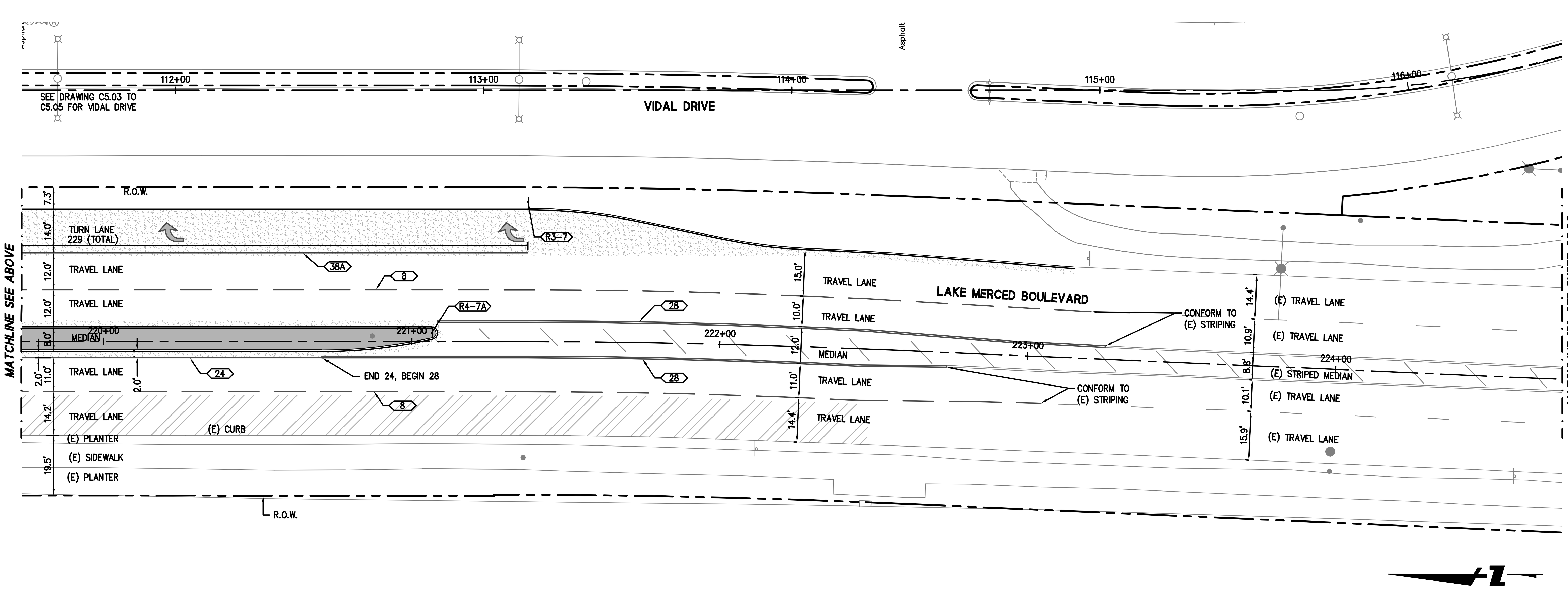
Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

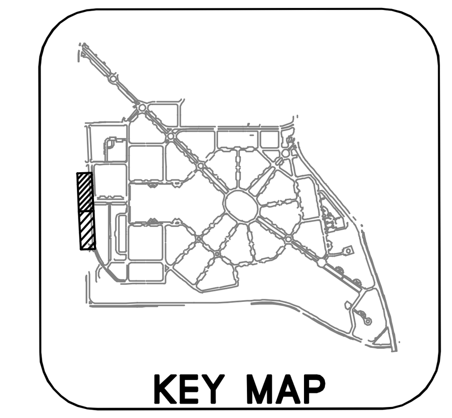
Drawing Number:
C5.01

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C501-SS-LMB.dwg (C5.01)
PLOT TIME: 5-1-2017 9:29 AM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17







GRAPHIC SCALE

20 0 20 40

PAVING LEGEND

CITY STANDARD SIDEWALKS & DRIVEWAYS
3.5" CONC/PREPARED SUBGRADE PER SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 204.

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CONCRETE PAVING
8"CONC/6" CLASS 2 AB COMPACTED TO 95%

PLANING WEDGE
SEE SHEET C7.19, DETAIL 5.

PERMEABLE PAVING

VEHICULAR AREAS (PERM CONC)
9" PERVIOUS CONC / 6" GRAVEL (ASTM NO. 3 OR 57) / SUBGRADE COMPACTED TO 95%

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PHASE 1A STREET IMPROVEMENT PLANS
SIGNING, STRIPING & PAVING PLAN - LAKE MERCED BLVD

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

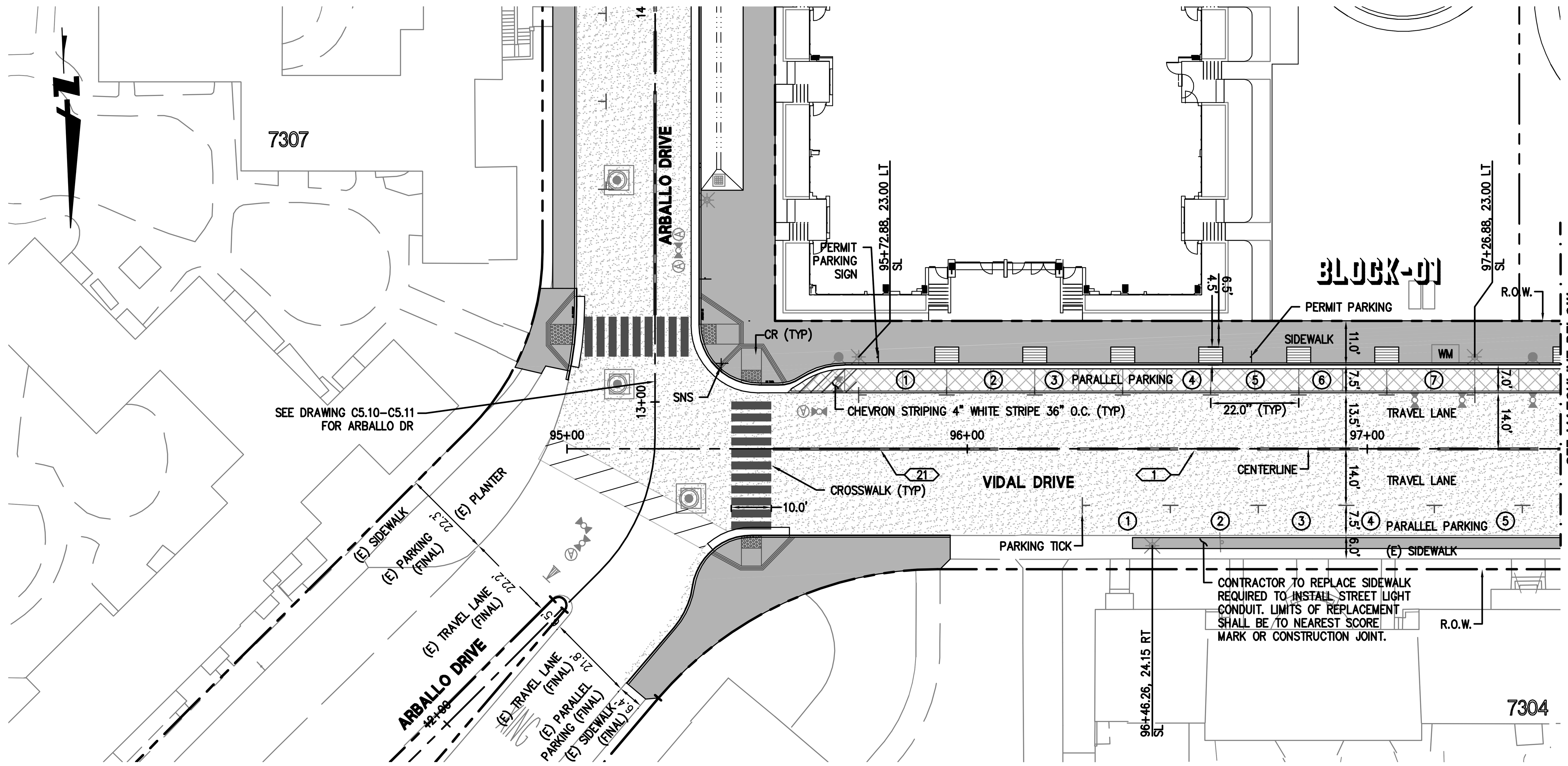
Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

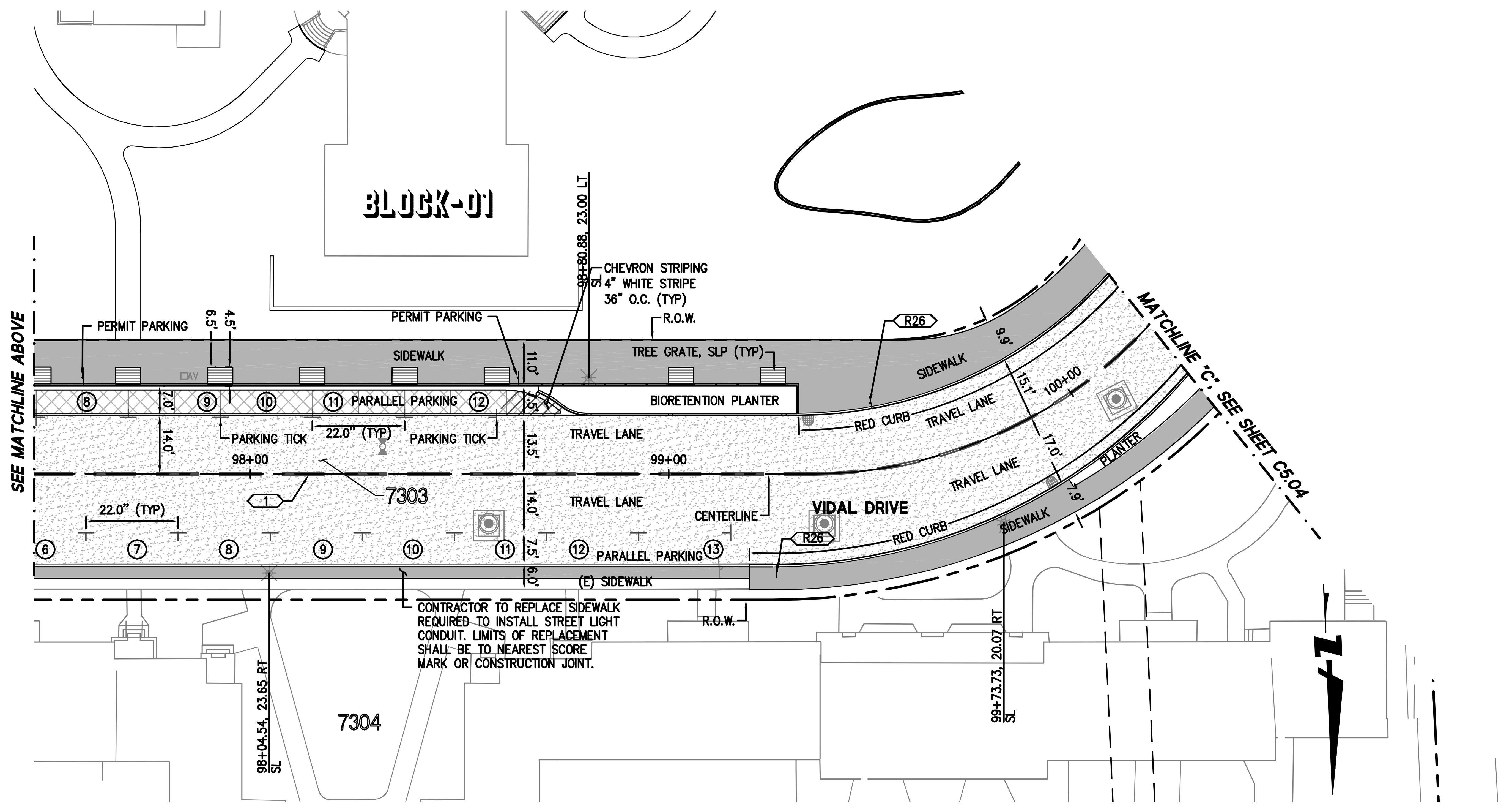
Drawing Number:

C5.02

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C501-SS-LMB.dwg (C5.02)
PLOT TIME: 5-1-2017 9:29 AM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17





KEY MAP

GRAPHIC SCALE 20 0 20 40

PAVING LEGEND

- CITY STANDARD SIDEWALKS & DRIVEWAYS — 3.5" CONC/PREPARED SUBGRADE PER SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 204.
- AC OVERLAY — 2" GRIND AND 2" MIN. AC OVERLAY
- CITY STANDARD STREET (RESIDENTIAL) — 2" MIN. AC/8" MIN. CONC/PREPARED SUBGRADE, SEE SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 200 THRU 221 FOR ADDITIONAL INFORMATION
- CONCRETE PAVING — 8"CONC/6" CLASS 2 AB COMPACTED TO 95%
- PLANING WEDGE — SEE SHEET C7.19, DETAIL 5.
- PERMEABLE PAVING
  - VEHICULAR AREAS (PERM CONC) — 9" PERVIOUS CONC / 6" GRAVEL (ASTM NO. 3 OR 57) / SUBGRADE COMPACTED TO 95%

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PHASE 1A STREET IMPROVEMENT PLANS
SIGNING, STRIPING & PAVING PLAN - VIDAL DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number: C5.03

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C502-SS-A.dwg (C5.03)
PLOT TIME: 5-1-2017 9:38 AM PLOTTED BY: bum

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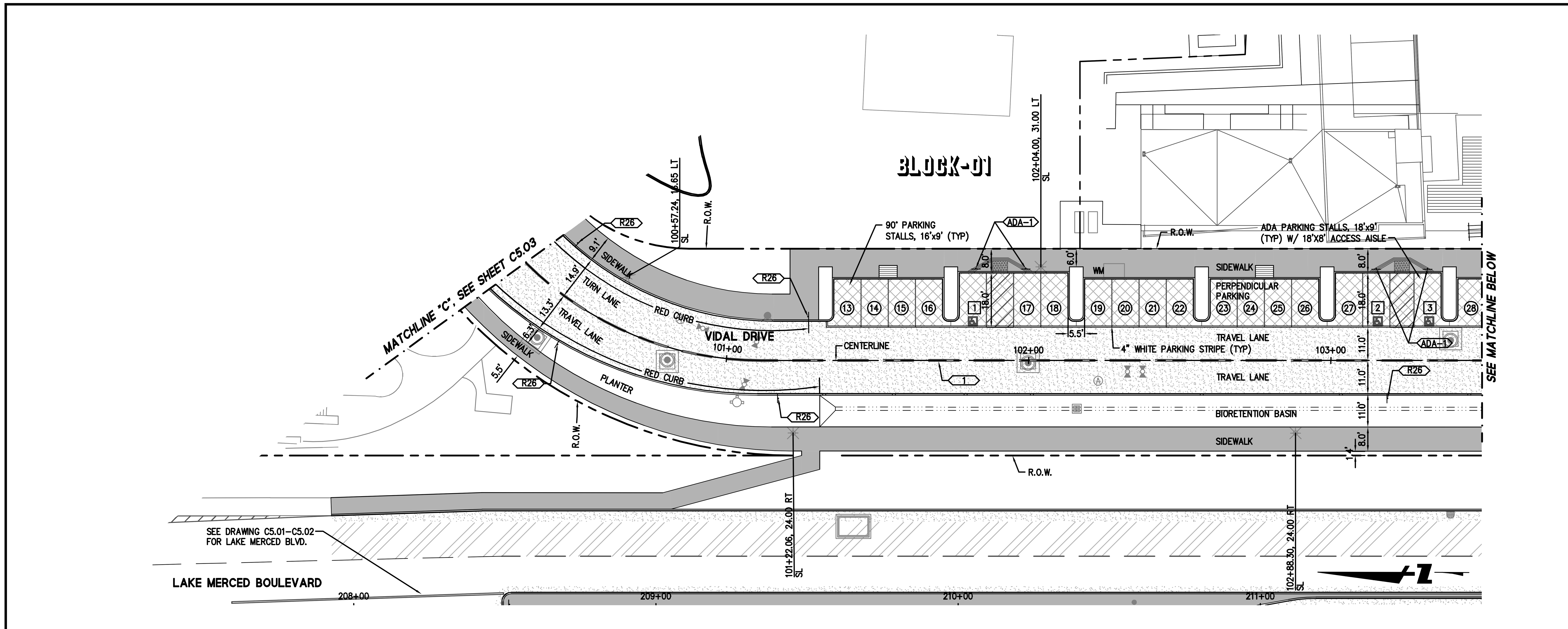

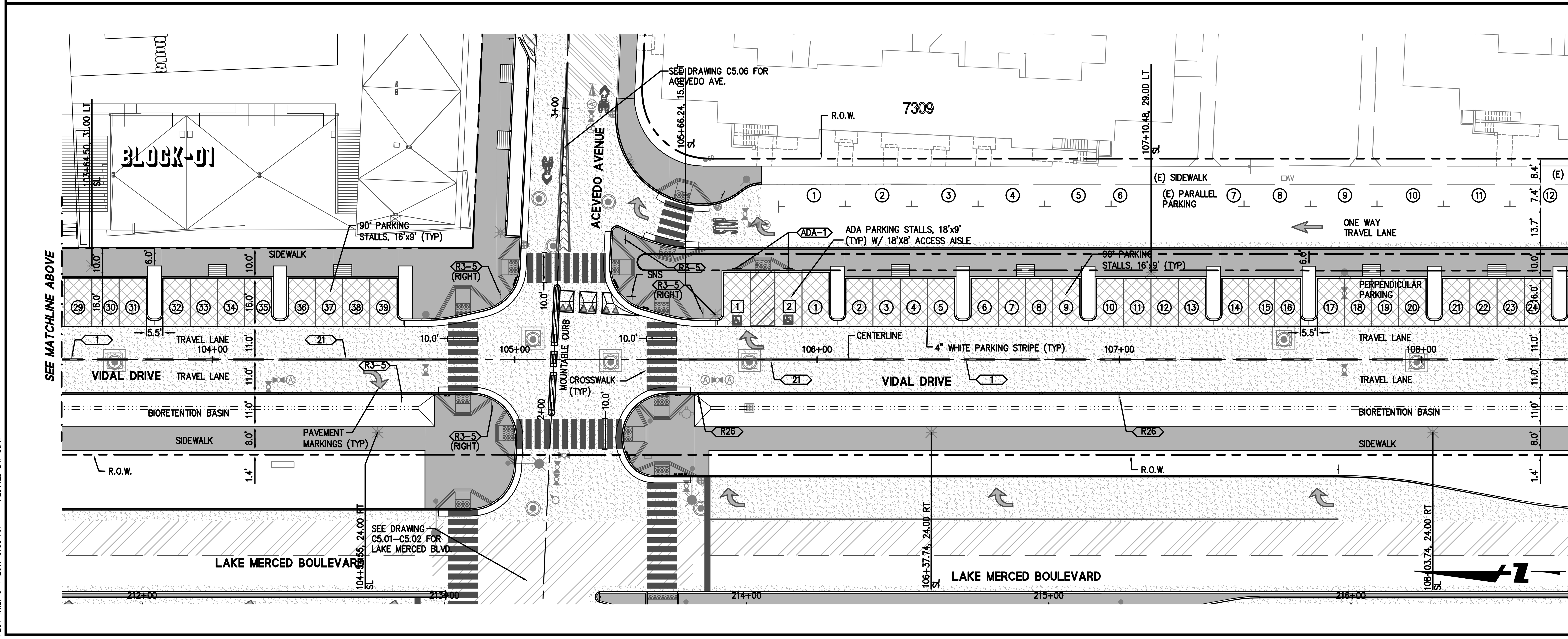

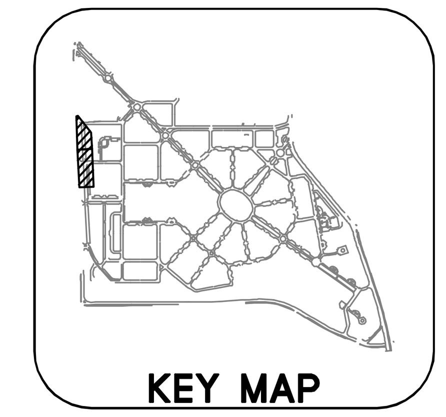

GRAPHIC SCALE
20 0 20 40

PAVING LEGEND

CITY STANDARD SIDEWALKS & DRIVEWAYS
3.5" CONC/PREPARED SUBGRADE PER SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 204.

AC OVERLAY
2" GRIND AND 2" MIN. AC OVERLAY

CITY STANDARD STREET (RESIDENTIAL)
2" MIN. AC/8" MIN. CONC/PREPARED SUBGRADE, SEE SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 200 THRU 221 FOR ADDITIONAL INFORMATION

CONCRETE PAVING
8"CONC/6" CLASS 2 AB COMPACTED TO 95%

PLANING WEDGE
SEE SHEET C7.19, DETAIL 5.

PERMEABLE PAVING

VEHICULAR AREAS (PERM CONC)
9" PERVIOUS CONC / 6" GRAVEL (ASTM NO. 3 OR 57) / SUBGRADE COMPACTED TO 95%

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PHASE 1A STREET IMPROVEMENT PLANS
SIGNING, STRIPING & PAVING PLAN - VIDAL DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
BRIAN K. SCOTT
No. 61034
Exp. 12/31/18
CIVIL
STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 200900086

Drawing Number:
C5.04

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C502-SS-A.dwg (C5.04)
PLOT TIME: 5-1-2017 9:38 AM PLOTTED BY: bum

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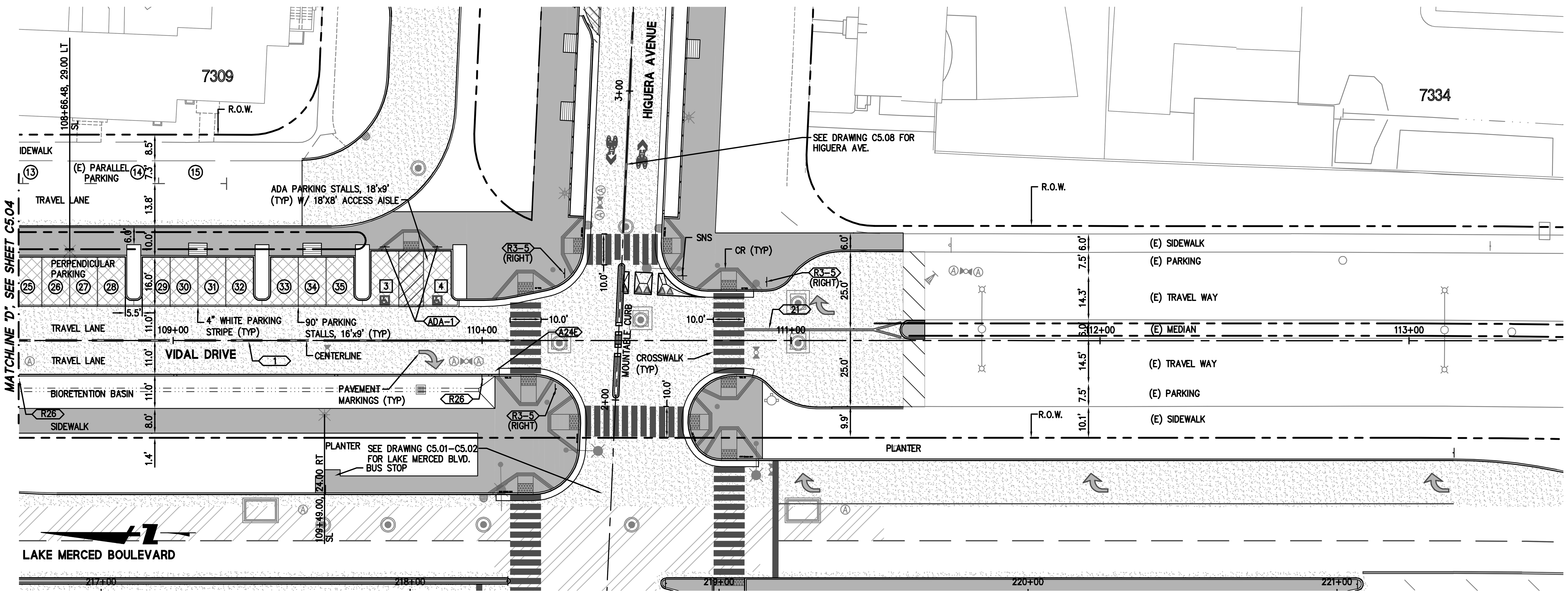

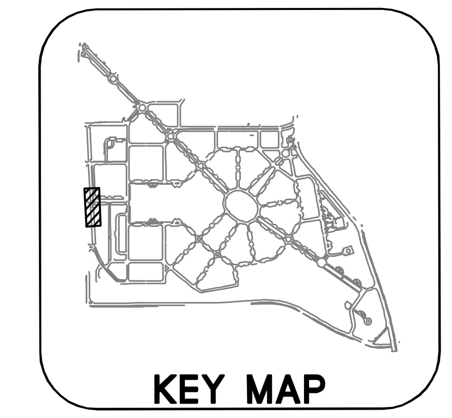

GRAPHIC SCALE

20 0 20 40

PAVING LEGEND

- CITY STANDARD SIDEWALKS & DRIVEWAYS — 3.5" CONC/PREPARED SUBGRADE PER SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 204.
- AC OVERLAY — 2" GRIND AND 2" MIN. AC OVERLAY
- CITY STANDARD STREET (RESIDENTIAL) — 2" MIN. AC/8" MIN. CONC/PREPARED SUBGRADE, SEE SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 200 THRU 221 FOR ADDITIONAL INFORMATION
- CONCRETE PAVING — 8"CONC/6" CLASS 2 AB COMPACTED TO 95%
- PLANING WEDGE — SEE SHEET C7.19, DETAIL 5.

PERMEABLE PAVING

- VEHICULAR AREAS (PERM CONC) — 9" PERVIOUS CONC / 6" GRAVEL (ASTM NO. 3 OR 57) / SUBGRADE COMPACTED TO 95%

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PHASE 1A STREET IMPROVEMENT PLANS

SIGNING, STRIPING & PAVING PLAN - VIDAL DRIVE

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No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C5.05

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C502-SS-A.dwg (C5.05)
PLOT TIME: 5-1-2017 9:38 AM PLOTTED BY: bum

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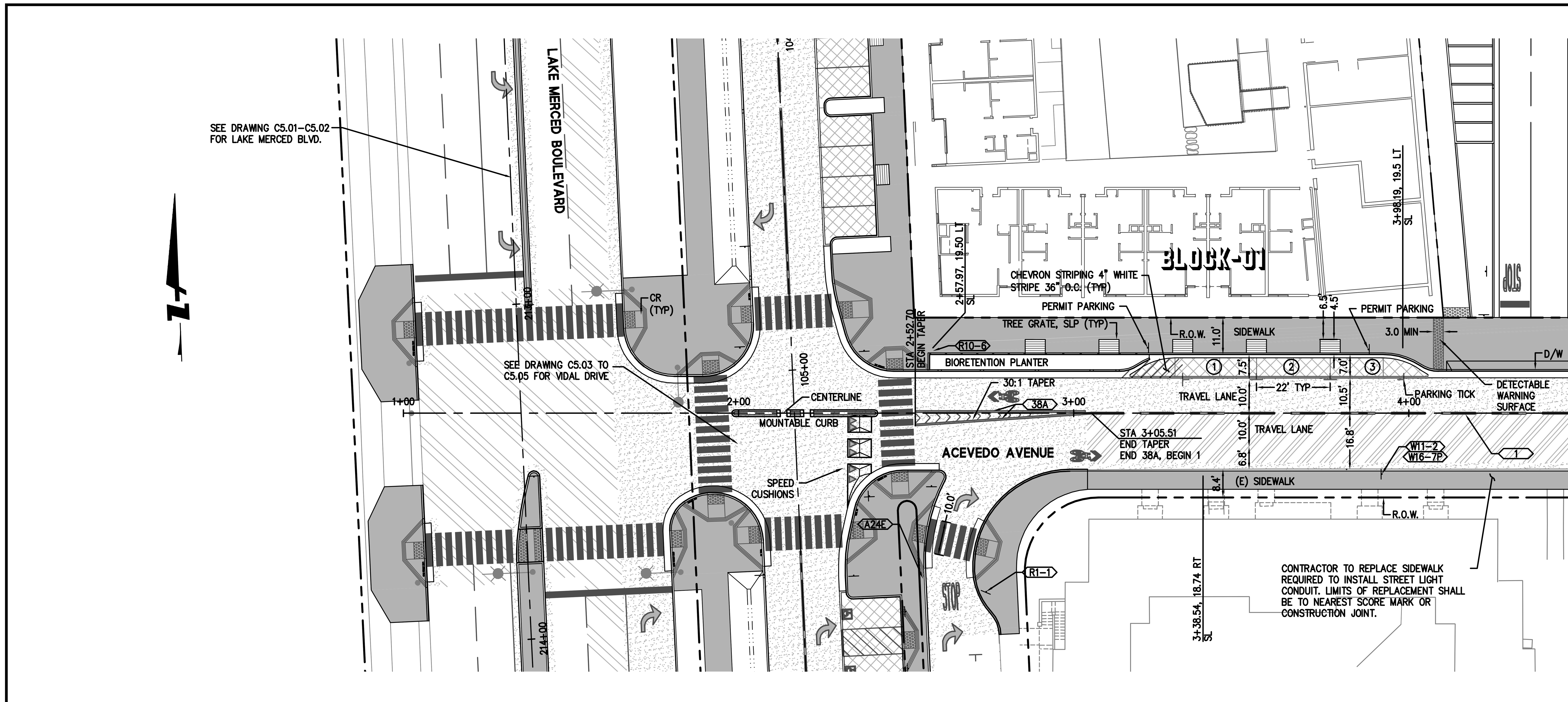
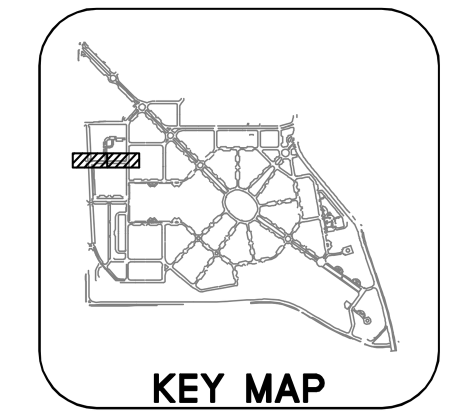


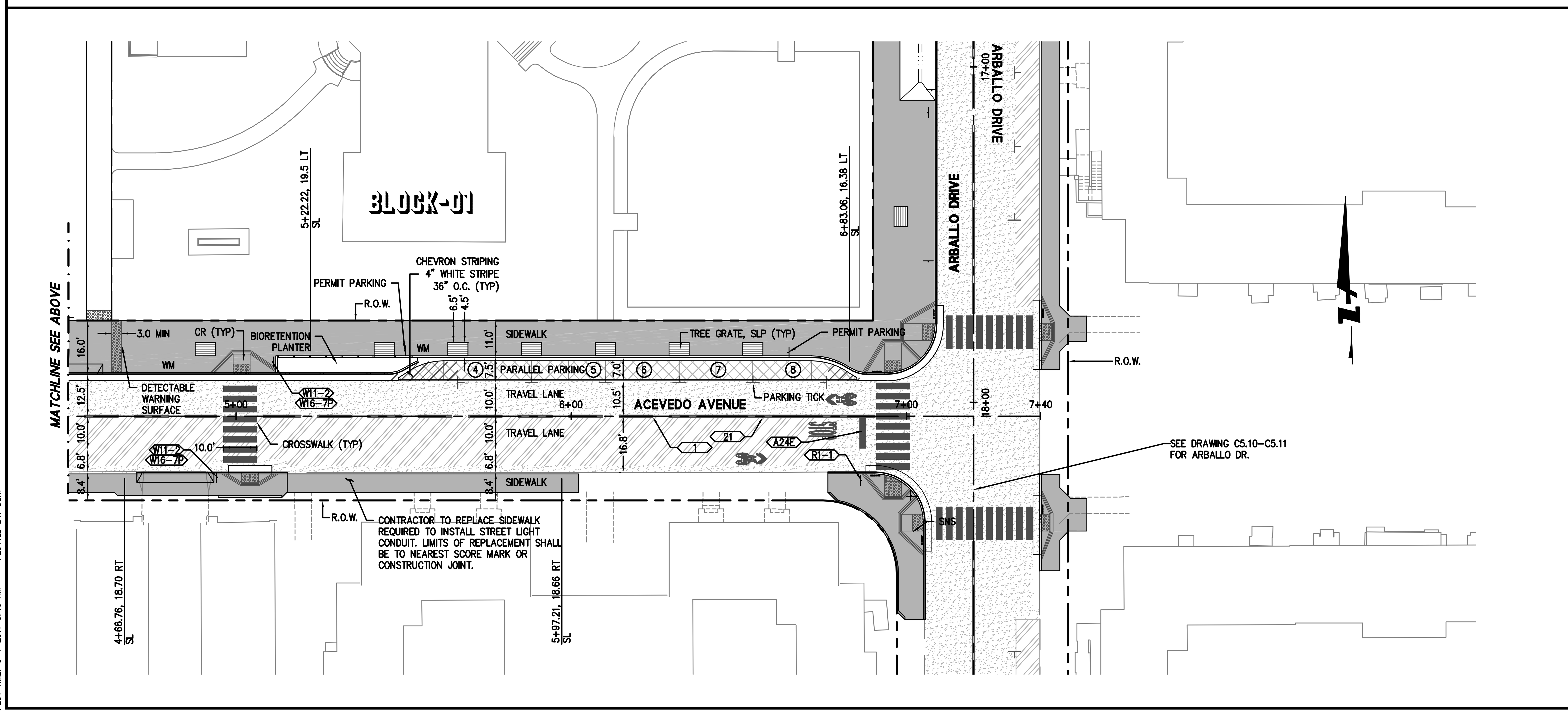


GRAPHIC SCALE

20 0 20 40

PAVING LEGEND

	CITY STANDARD SIDEWALKS & DRIVEWAYS 3.5" CONC/PREPARED SUBGRADE PER SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 204.
	AC OVERLAY 2" GRIND AND 2" MIN. AC OVERLAY
	CITY STANDARD STREET (RESIDENTIAL) 2" MIN. AC/8" MIN. CONC/PREPARED SUBGRADE, SEE SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 200 THRU 221 FOR ADDITIONAL INFORMATION
	CONCRETE PAVING 8"CONC/6" CLASS 2 AB COMPACTED TO 95%
	PLANING WEDGE SEE SHEET C7.19, DETAIL 5.
	PERMEABLE PAVING
	VEHICULAR AREAS (PERM CONC) 9" PERVIOUS CONC / 6" GRAVEL (ASTM NO. 3 OR 57) / SUBGRADE COMPACTED TO 95%



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PHASE 1A STREET IMPROVEMENT PLANS
SIGNING, STRIPING & PAVING PLAN – ACEVEDO AVENUE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

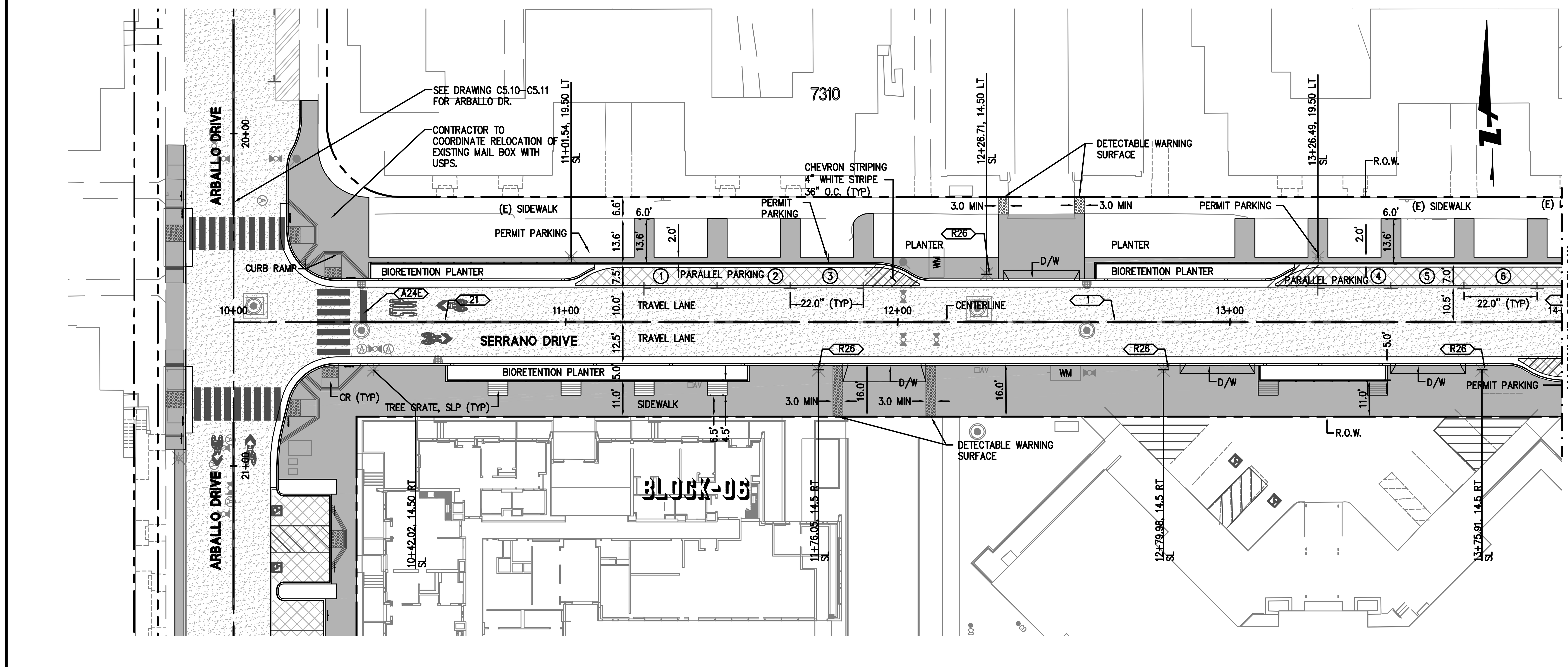
No.	Revisions

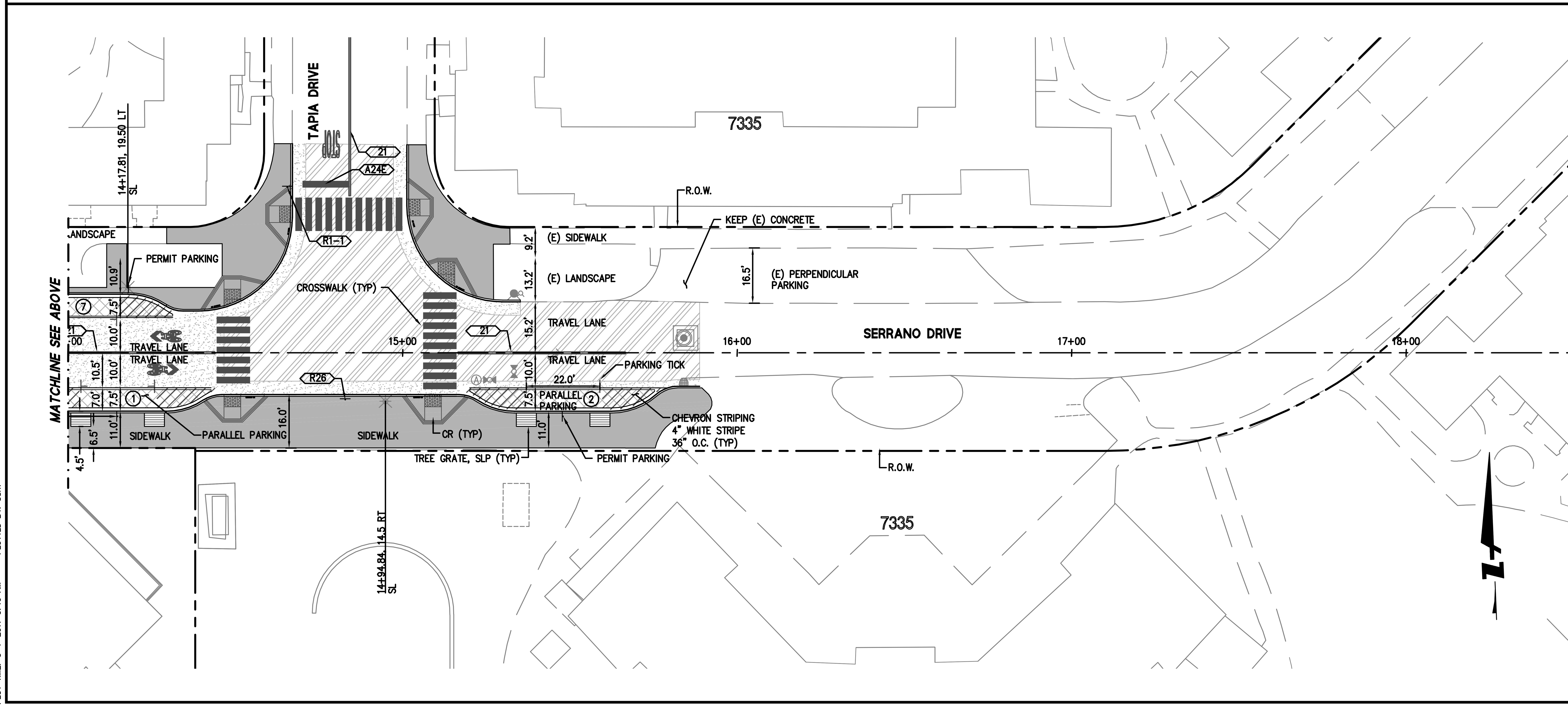
Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

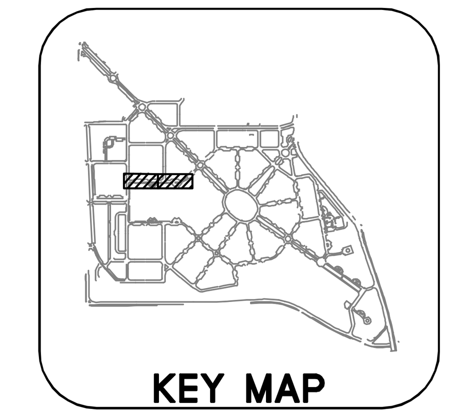
Drawing Number:
C5.06

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C504-SS-D.dwg (C5.06)
PLOT TIME: 5-1-2017 9:40 AM PLOTTED BY: bsm

APPROVED SET FOR BOARD SUBMITTAL 05.01.17







GRAPHIC SCALE
20 0 20 40

PAVING LEGEND

CITY STANDARD SIDEWALKS & DRIVEWAYS
3.5" CONC/PREPARED SUBGRADE PER SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 204.

AC OVERLAY
2" GRIND AND 2" MIN. AC OVERLAY

CITY STANDARD STREET (RESIDENTIAL)
2" MIN. AC/8" MIN. CONC/PREPARED SUBGRADE, SEE SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 200 THRU 221 FOR ADDITIONAL INFORMATION

CONCRETE PAVING
8"CONC/6" CLASS 2 AB COMPACTED TO 95%

PLANING WEDGE
SEE SHEET C7.19, DETAIL 5.

PERMEABLE PAVING

VEHICULAR AREAS (PERM CONC)
9" PERVIOUS CONC / 6" GRAVEL (ASTM NO. 3 OR 57) / SUBGRADE COMPACTED TO 95%

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PHASE 1A STREET IMPROVEMENT PLANS
SIGNING, STRIPING & PAVING PLAN – SERRANO DRIVE
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER · CIVIL · STATE OF CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C5.07

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C505-SS-E.dwg (C5.07)
PLOT TIME: 5-1-2017 9:40 AM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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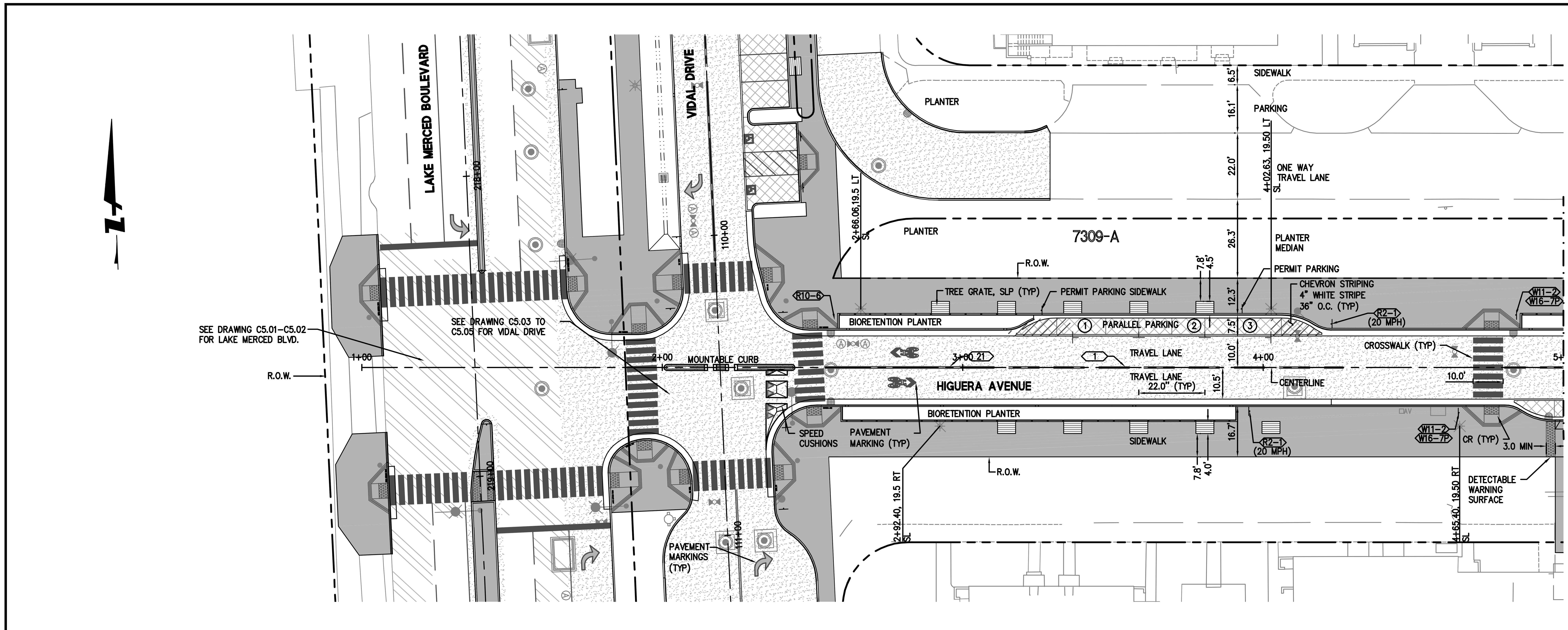

GRAPHIC SCALE
20 0 20 40

PAVING LEGEND

CITY STANDARD SIDEWALKS & DRIVEWAYS
3.5" CONC/PREPARED SUBGRADE PER SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 204.

AC OVERLAY
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CITY STANDARD STREET (RESIDENTIAL)
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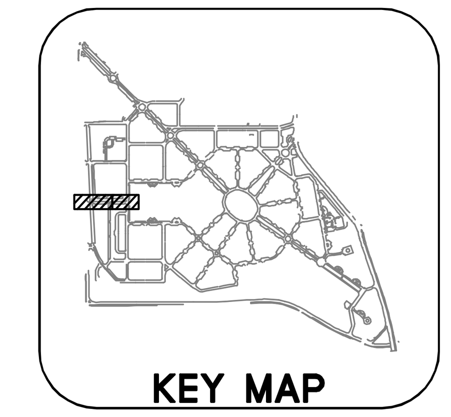
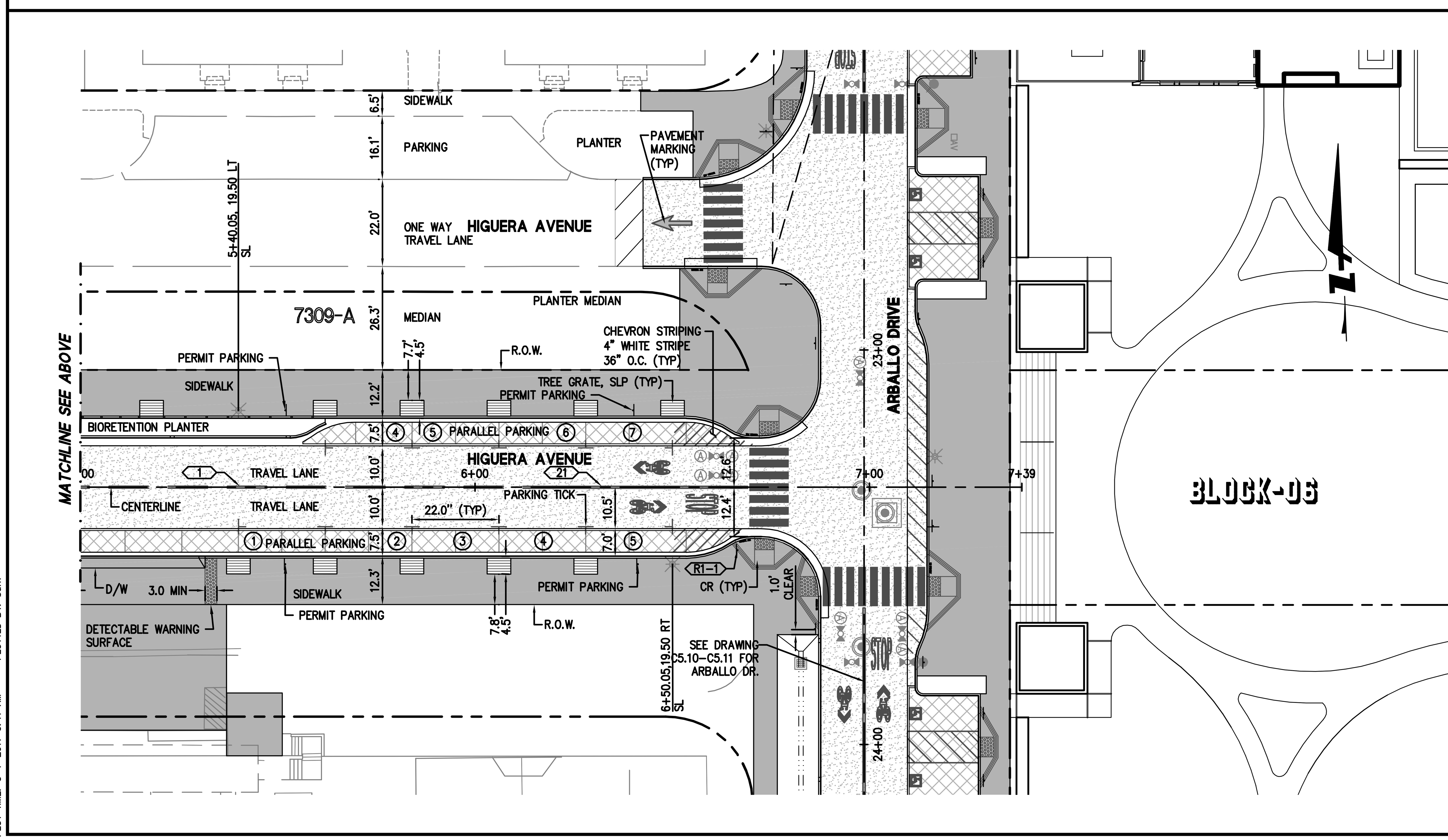
CONCRETE PAVING
8"CONC/6" CLASS 2 AB COMPACTED TO 95%

PLANING WEDGE
SEE SHEET C7.19, DETAIL 5.

PERMEABLE PAVING

VEHICULAR AREAS (PERM CONC)
9" PERVIOUS CONC / 6" GRAVEL (ASTM NO. 3 OR 57) / SUBGRADE COMPACTED TO 95%





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PHASE 1A STREET IMPROVEMENT PLANS
SIGNING, STRIPING & PAVING PLAN - HIGUERA AVENUE
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

Date:	05/01/17
Scale:	1"=20'
Design:	TH
Drawn:	NL
Approved:	BS
Job No:	20090086

No. | Revisions

Drawing Number:
C5.08

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C506-SS-F.dwg (C5.08)
PLOT TIME: 5-1-2017 9:41 AM PLOTTED BY: bum

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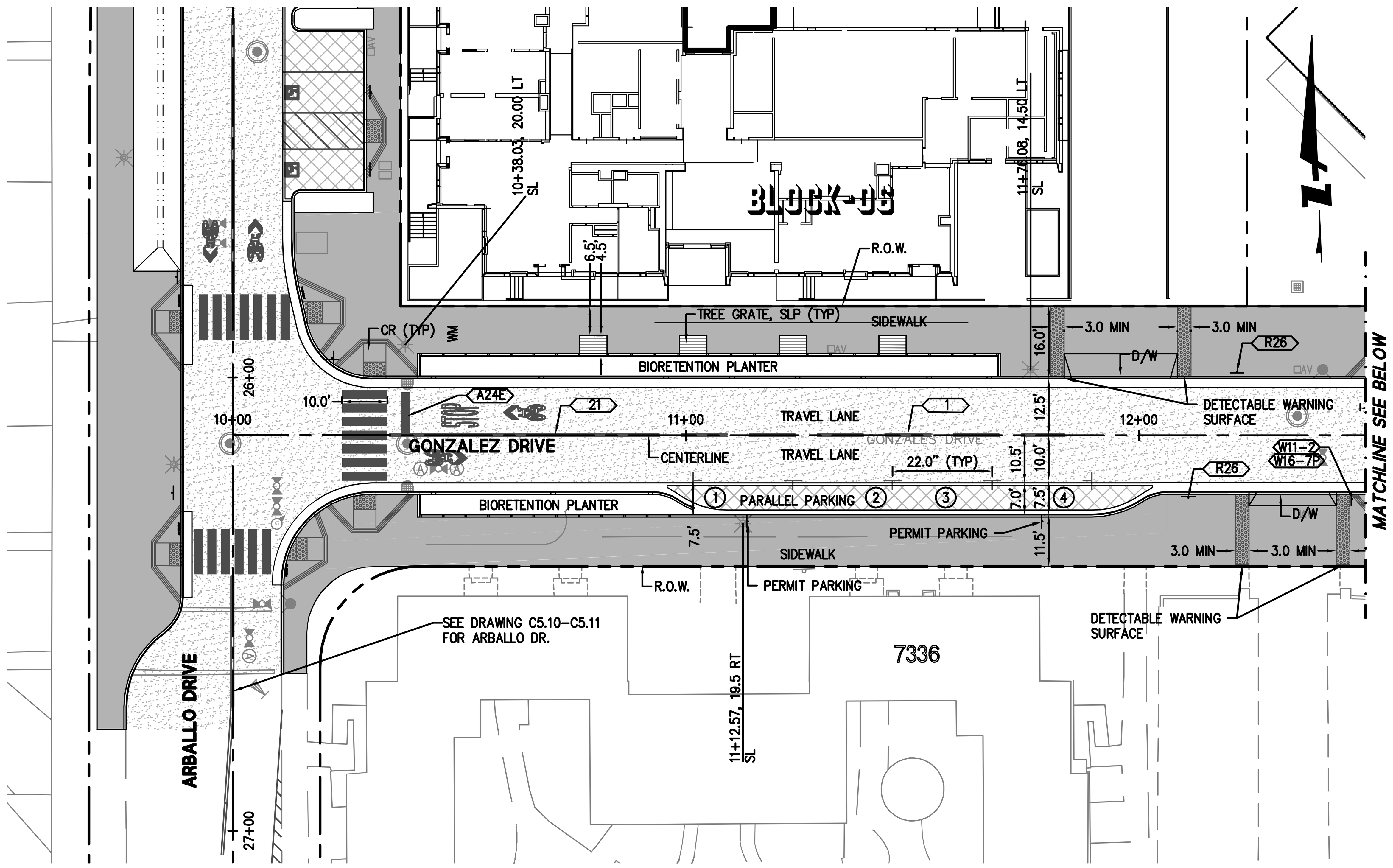

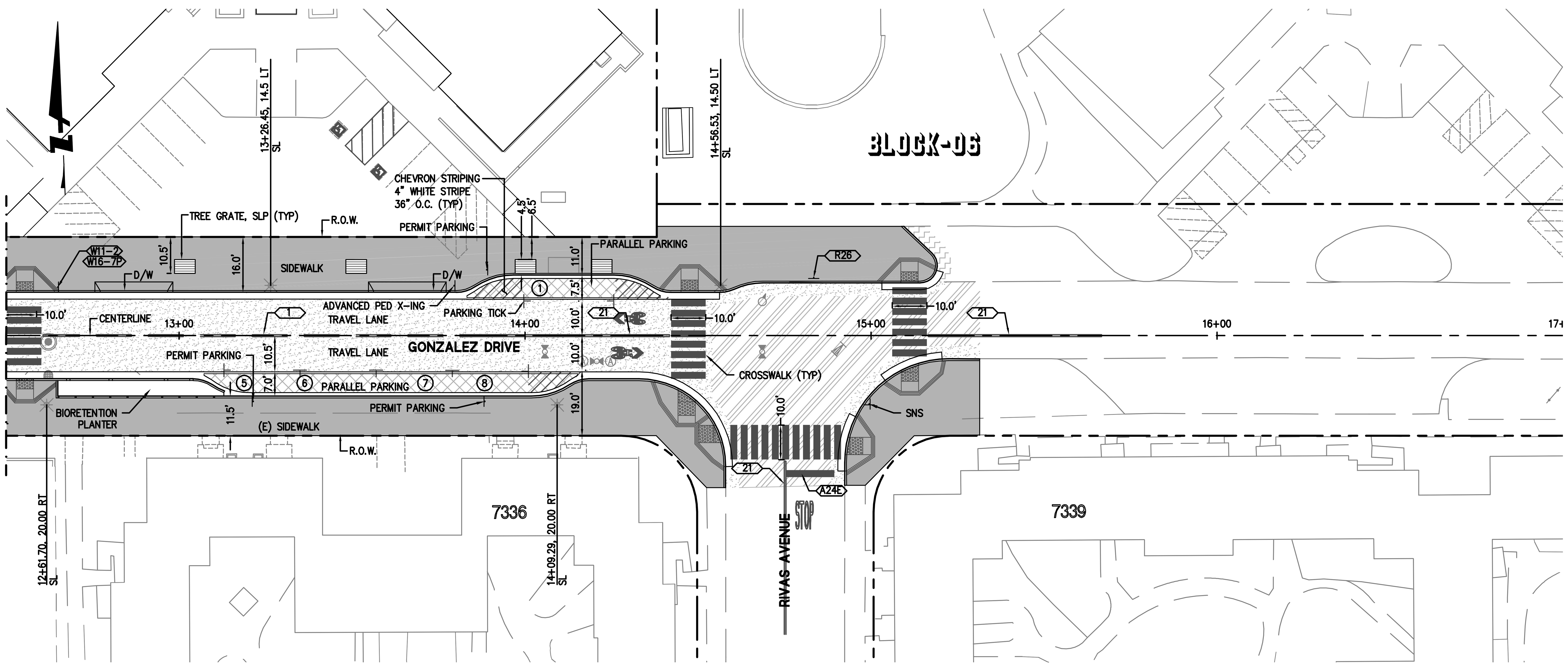

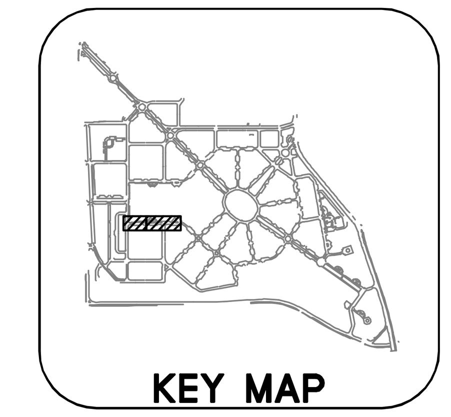

GRAPHIC SCALE

20 0 20 40

PAVING LEGEND

	CITY STANDARD SIDEWALKS & DRIVEWAYS 3.5" CONC/PREPARED SUBGRADE PER SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 204.
	AC OVERLAY 2" GRIND AND 2" MIN. AC OVERLAY
	CITY STANDARD STREET (RESIDENTIAL) 2" MIN. AC/8" MIN. CONC/PREPARED SUBGRADE, SEE SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 200 THRU 221 FOR ADDITIONAL INFORMATION
	CONCRETE PAVING 8"CONC/6" CLASS 2 AB COMPACTED TO 95%
	PLANING WEDGE SEE SHEET C7.19, DETAIL 5.
	PERMEABLE PAVING
	VEHICULAR AREAS (PERM CONC) 9" PERVIOUS CONC / 6" GRAVEL (ASTM NO. 3 OR 57) / SUBGRADE COMPACTED TO 95%

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PHASE 1A STREET IMPROVEMENT PLANS

SIGNING, STRIPING & PAVING PLAN - GONZALEZ DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C5.09

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C507-SS-G.dwg (C5.09)
PLOT TIME: 5-1-2017 9:42 AM PLOTTED BY: bum

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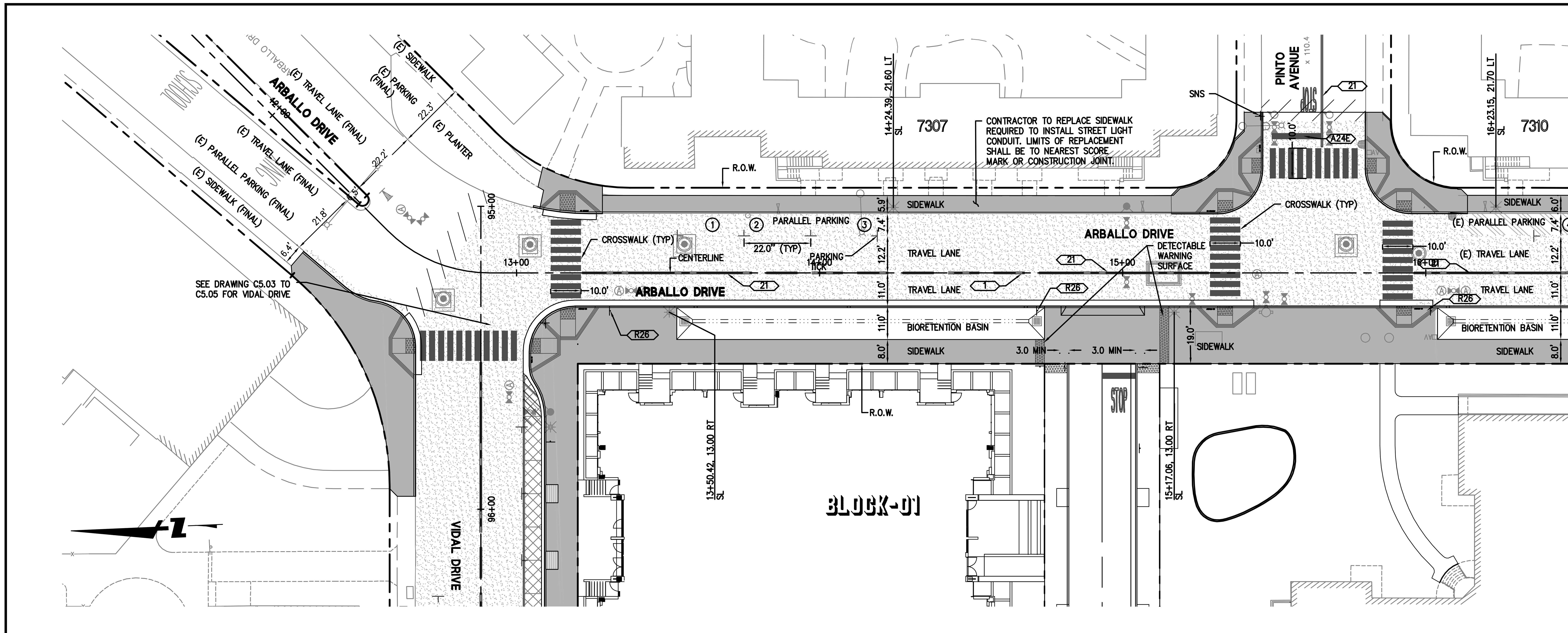

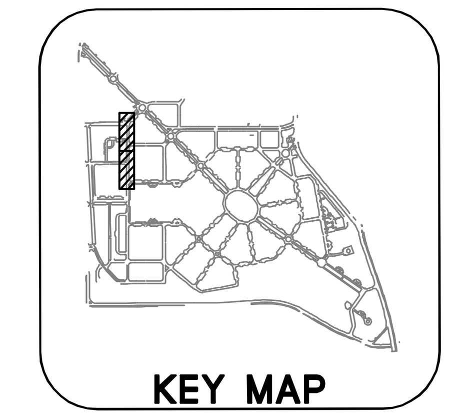

GRAPHIC SCALE
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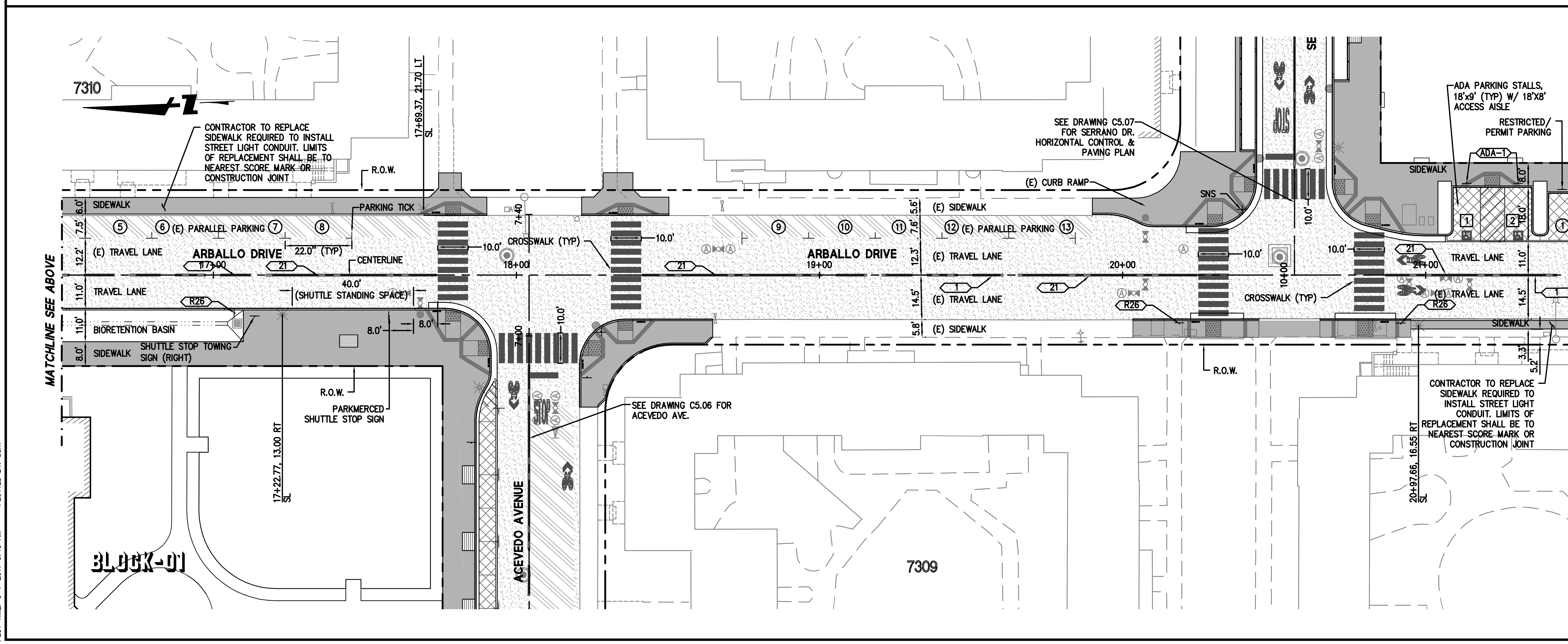
PAVING LEGEND

- CITY STANDARD SIDEWALKS & DRIVEWAYS — 3.5" CONC/PREPARED SUBGRADE PER SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 204.
- AC OVERLAY — 2" GRIND AND 2" MIN. AC OVERLAY
- CITY STANDARD STREET (RESIDENTIAL) — 2" MIN. AC/8" MIN. CONC/PREPARED SUBGRADE, SEE SAN FRANCISCO STANDARD SPECIFICATIONS SECTIONS 200 THRU 221 FOR ADDITIONAL INFORMATION
- CONCRETE PAVING — 8"CONC/6" CLASS 2 AB COMPACTED TO 95%
- PLANING WEDGE — SEE SHEET C7.19, DETAIL 5.
- PERMEABLE PAVING
  - VEHICULAR AREAS (PERM CONC) — 9" PERVIOUS CONC / 6" GRAVEL (ASTM NO. 3 OR 57) / SUBGRADE COMPACTED TO 95%



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PHASE 1A STREET IMPROVEMENT PLANS
SIGNING, STRIPING & PAVING PLAN - ARBALLO DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C5.10

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C508-SS-I.dwg (C5.10)
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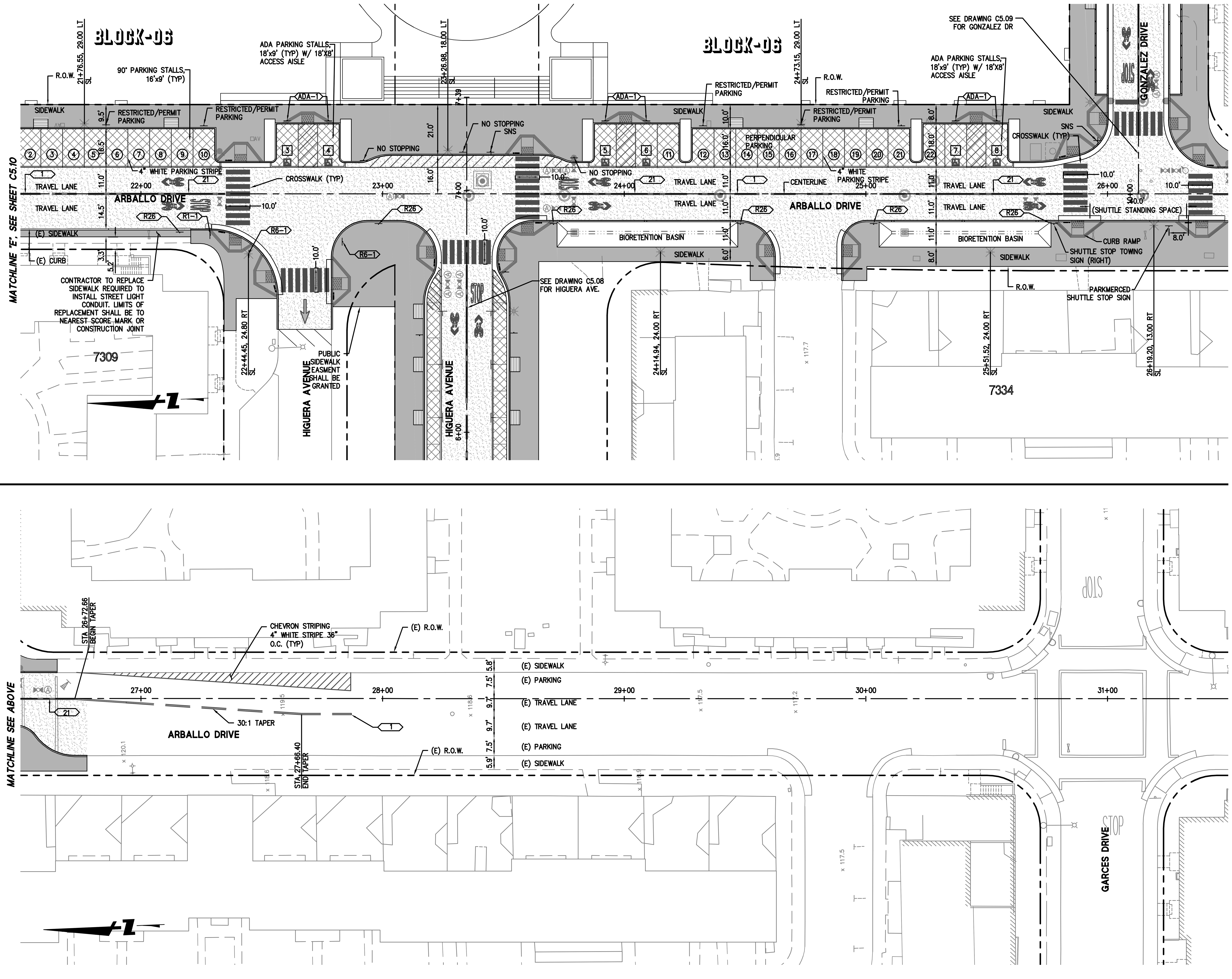

PAVING LEGEND

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SIGNING, STRIPING & PAVING PLAN - ARBALLO DRIVE
SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number: C5.11

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C508-SS-I.dwg (C5.11)
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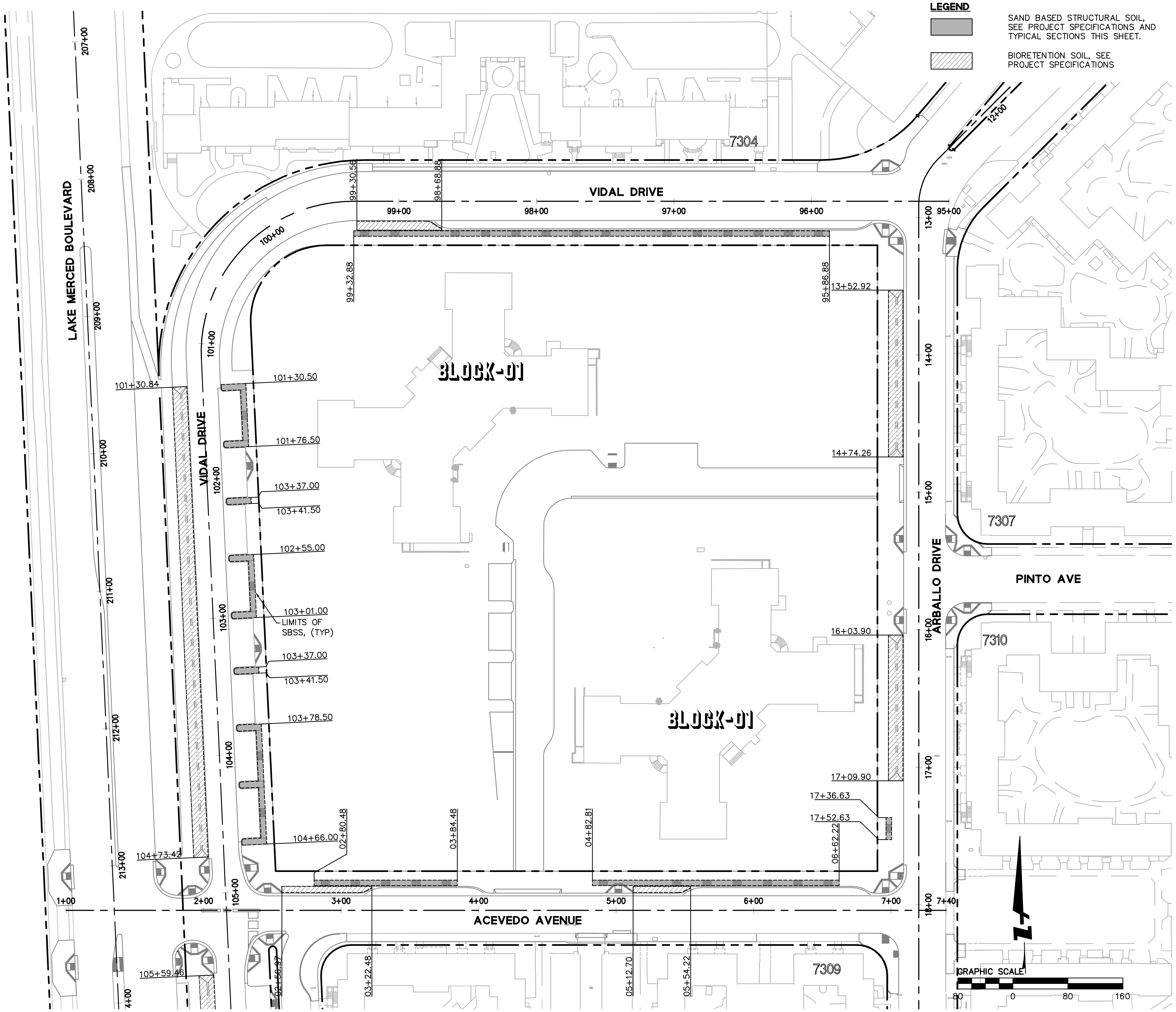
SHEET NOTES

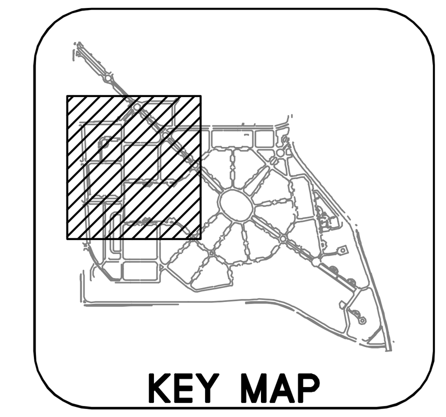
1. REFER TO C1.08 FOR EDGE TREATMENT DETAIL REFERENCES.
2. REFER TO SHEETS C3.31 THRU C3.42 FOR BIORETENTION PLANTER DETAILS INCLUDING GRADING, CURB CUTS, DRAINAGE NOTHCES, CHECK DAMS, LATERAL BRACING OVERFLOWS, ETC.
3. REFER TO C5.00 FOR GENERAL NOTES.

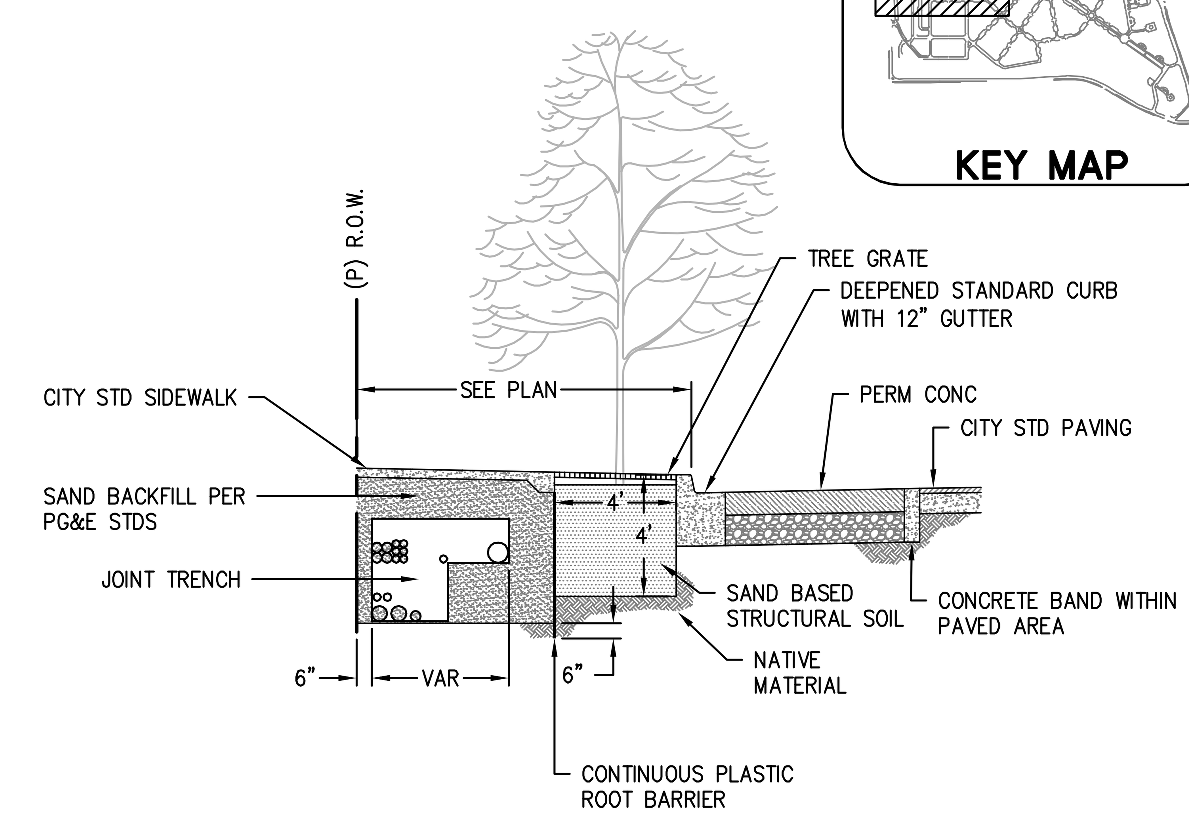
LEGEND

SAND BASED STRUCTURAL SOIL, SEE PROJECT SPECIFICATIONS AND TYPICAL SECTIONS THIS SHEET.

BIORETENTION SOIL, SEE PROJECT SPECIFICATIONS







1 TYPICAL SIDEWALK SECTION - AT TREEWELL
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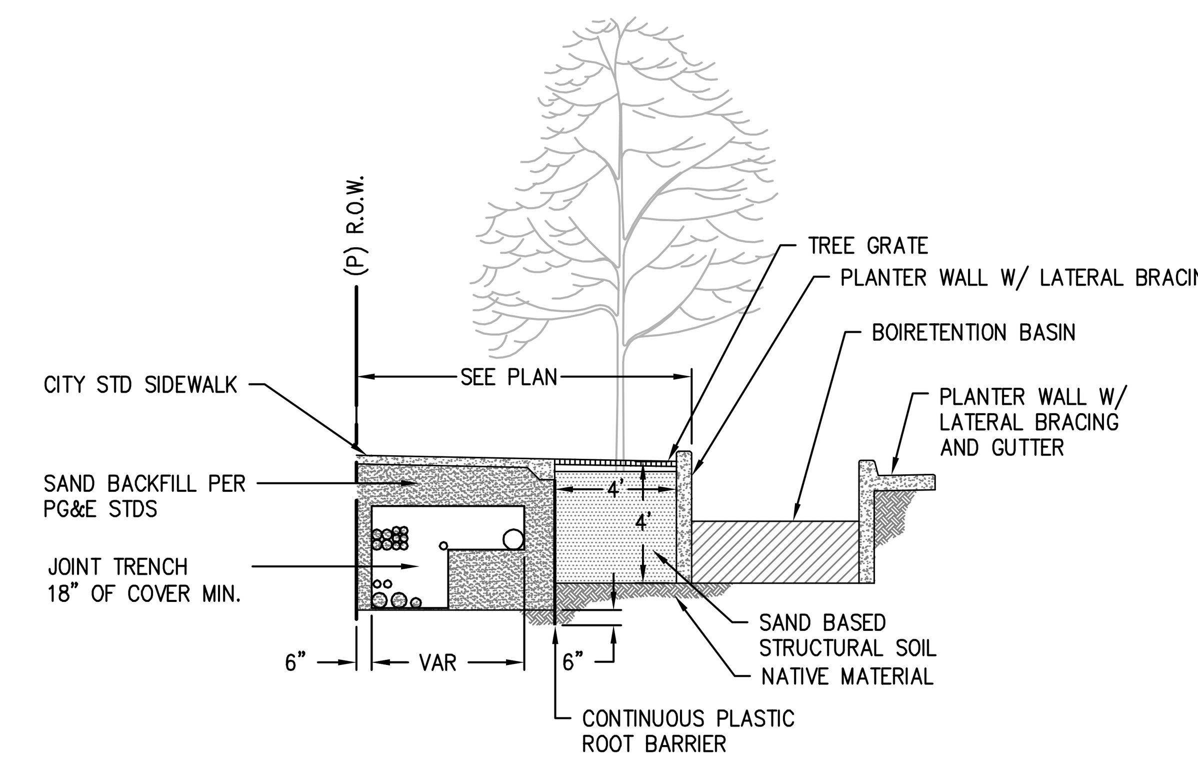

2 TYPICAL SIDEWALK SECTION - AT BIORETENTION BASIN
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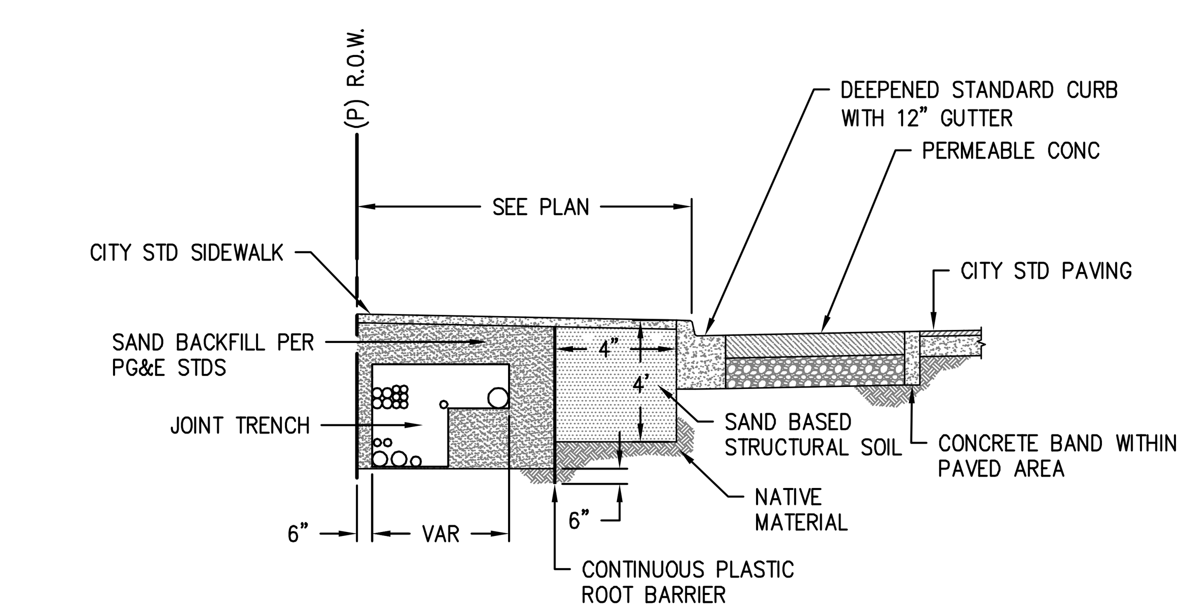

3 TYPICAL SIDEWALK SECTION - BETWEEN TREEWELLS
SCALE: 1"=5'

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PHASE 1A STREET IMPROVEMENT PLANS

SAND BASED STRUCTURAL SOIL PLAN

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=80'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

C5.12

DRAWING NAME: \\Bkf-rc\data\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C509-SBSS.dwg (C5.12)
PLOT TIME: 4-27-2017 12:44 PM PLOTTED BY: HEFF

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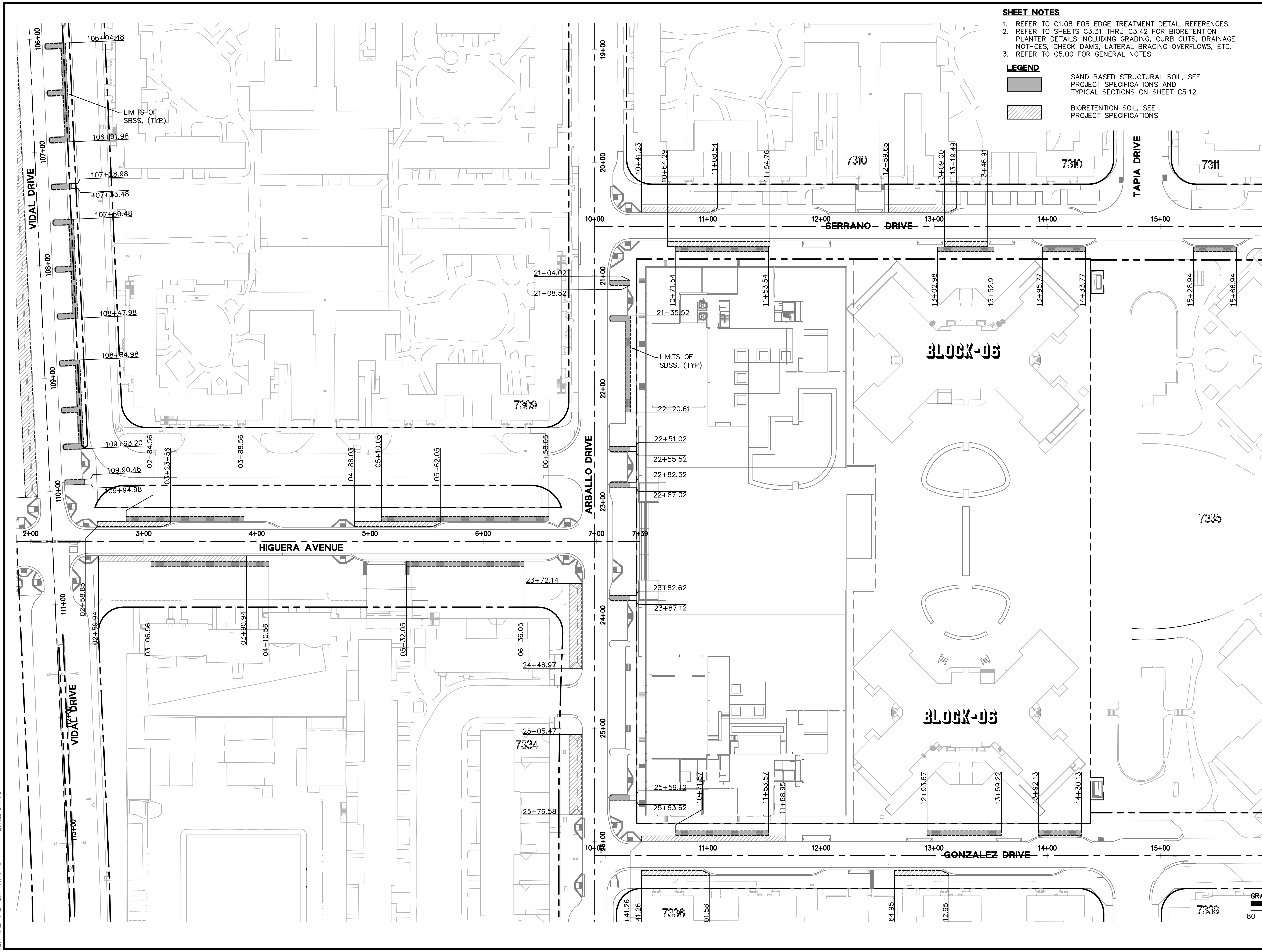


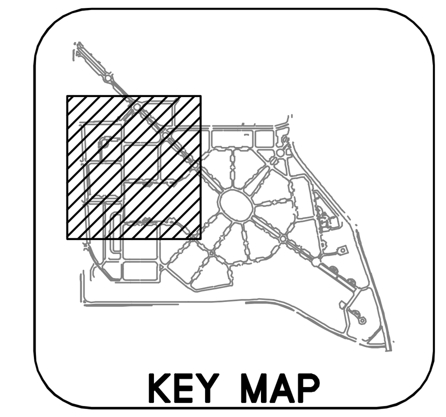
SHEET NOTES

1. REFER TO C1.08 FOR EDGE TREATMENT DETAIL REFERENCES.
2. REFER TO SHEETS C3.31 THRU C3.42 FOR BIORETENTION PLANTER DETAILS INCLUDING GRADING, CURB CUTS, DRAINAGE NOTHCES, CHECK DAMS, LATERAL BRACING OVERFLOWS, ETC.
3. REFER TO C5.00 FOR GENERAL NOTES.

LEGEND

SAND BASED STRUCTURAL SOIL, SEE PROJECT SPECIFICATIONS AND TYPICAL SECTIONS ON SHEET C5.12.

BIORETENTION SOIL, SEE PROJECT SPECIFICATIONS



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SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

Date: 05/01/17	No.	Revisions
Scale: 1"=80'		
Design: TH		
Drawn: NL		
Approved: BS		
Job No: 20090086		

Drawing Number:

C5.13

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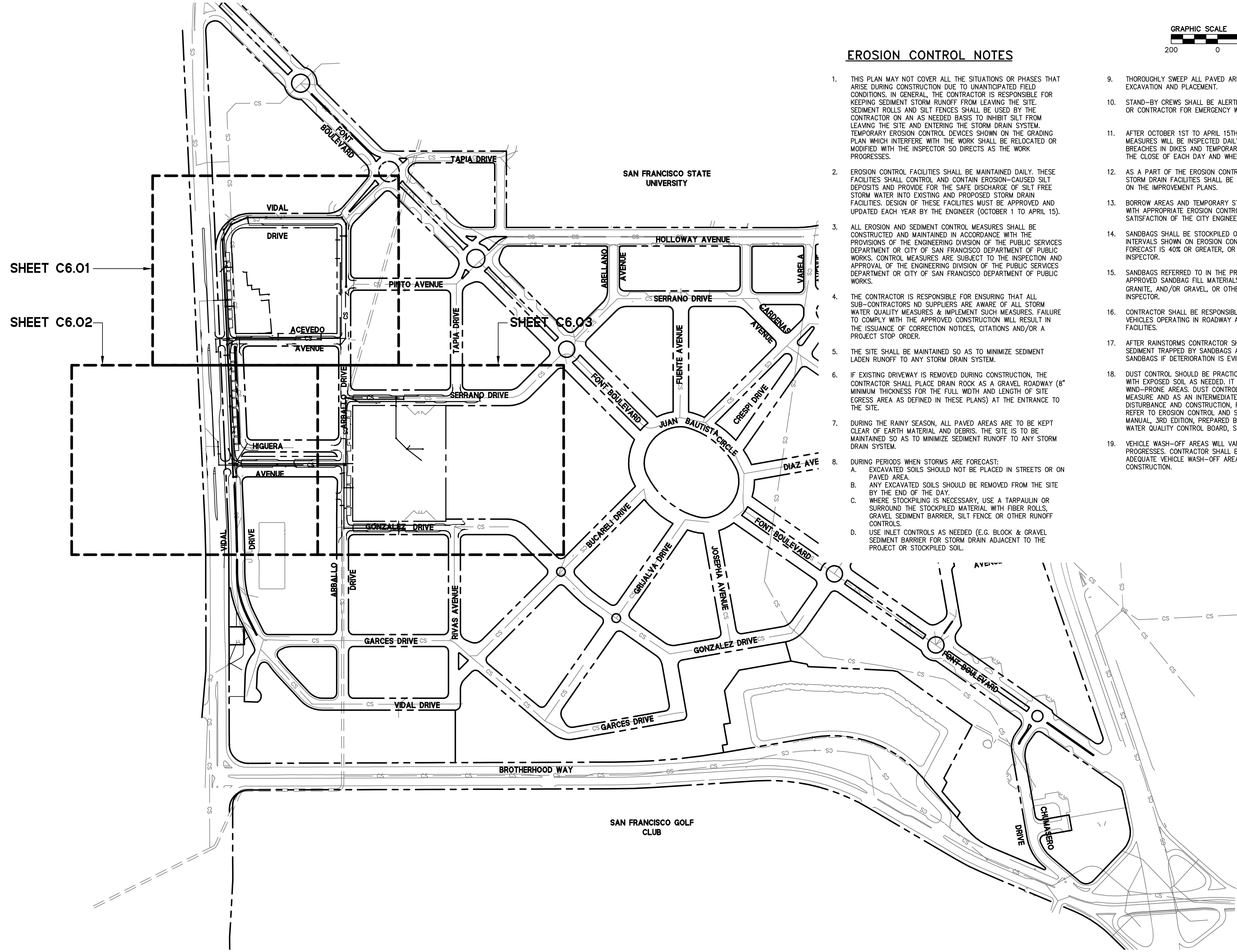

EROSION CONTROL NOTES

1. THIS PLAN MAY NOT COVER ALL THE SITUATIONS OR PHASES THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING SEDIMENT STORM RUNOFF FROM LEAVING THE SITE. SEDIMENT ROLLS AND SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED WITH THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES.

2. EROSION CONTROL FACILITIES SHALL BE MAINTAINED DAILY. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION–CAUSED SILT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SILT FREE STORM WATER INTO EXISTING AND PROPOSED STORM DRAIN FACILITIES. DESIGN OF THESE FACILITIES MUST BE APPROVED AND UPDATED EACH YEAR BY THE ENGINEER (OCTOBER 1 TO APRIL 15).

3. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PROVISIONS OF THE ENGINEERING DIVISION OF THE PUBLIC SERVICES DEPARTMENT OR CITY OF SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS. CONTROL MEASURES ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DIVISION OF THE PUBLIC SERVICES DEPARTMENT OR CITY OF SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS.

4. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SUB–CONTRACTORS ND SUPPLIERS ARE AWARE OF ALL STORM WATER QUALITY MEASURES & IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED CONSTRUCTION WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS AND/OR A PROJECT STOP ORDER.

5. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.

6. IF EXISTING DRIVEWAY IS REMOVED DURING CONSTRUCTION, THE CONTRACTOR SHALL PLACE DRAIN ROCK AS A GRAVEL ROADWAY (8" MINIMUM THICKNESS FOR THE FULL WIDTH AND LENGTH OF SITE EGRESS AREA AS DEFINED IN THESE PLANS) AT THE ENTRANCE TO THE SITE.

7. DURING THE RAINY SEASON, ALL PAVED AREAS ARE TO BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT RUNOFF TO ANY STORM DRAIN SYSTEM.

8. DURING PERIODS WHEN STORMS ARE FORECAST:
   A. EXCAVATED SOILS SHOULD NOT BE PLACED IN STREETS OR ON PAVED AREA.
   B. ANY EXCAVATED SOILS SHOULD BE REMOVED FROM THE SITE BY THE END OF THE DAY.
   C. WHERE STOCKPILING IS NECESSARY, USE A TARPAULIN OR SURROUND THE STOCKPILED MATERIAL WITH FIBER ROLLS, GRAVEL SEDIMENT BARRIER, SILT FENCE OR OTHER RUNOFF CONTROLS.
   D. USE INLET CONTROLS AS NEEDED (E.G. BLOCK & GRAVEL SEDIMENT BARRIER FOR STORM DRAIN ADJACENT TO THE PROJECT OR STOCKPILED SOIL.

9. THOROUGHLY SWEEP ALL PAVED AREAS EXPOSED TO SOIL EXCAVATION AND PLACEMENT.

10. STAND–BY CREWS SHALL BE ALERTED BY THE PERMIT APPLICANT OR CONTRACTOR FOR EMERGENCY WORK DURING RAINSTORMS.

11. AFTER OCTOBER 1ST TO APRIL 15TH, ALL EROSION CONTROL MEASURES WILL BE INSPECTED DAILY AND AFTER EACH STORM. BREACHES IN DIKES AND TEMPORARY SWALES WILL BE REPAIRED AT THE CLOSE OF EACH DAY AND WHENEVER RAIN IS FORECAST.

12. AS A PART OF THE EROSION CONTROL MEASURES, UNDERGROUND STORM DRAIN FACILITIES SHALL BE INSTALLED COMPLETE AS SHOWN ON THE IMPROVEMENT PLANS.

13. BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES TO THE SATISFACTION OF THE CITY ENGINEER.

14. SANDBAGS SHALL BE STOCKPILED ON SITE AND PLACED AT INTERVALS SHOWN ON EROSION CONTROL PLANS WHEN THE RAIN FORECAST IS 40% OR GREATER, OR WHEN DIRECTED BY THE INSPECTOR.

15. SANDBAGS REFERRED TO IN THE PRECEDING ITEMS MUST BE FULL. APPROVED SANDBAG FILL MATERIALS ARE SAND, DECOMPOSED GRANITE, AND/OR GRAVEL, OR OTHER MATERIALS APPROVED BY THE INSPECTOR.

16. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING SAFETY OF VEHICLES OPERATING IN ROADWAY ADJACENT TO EROSION CONTROL FACILITIES.

17. AFTER RAINSTORMS CONTRACTOR SHALL CHECK FOR AND REMOVE SEDIMENT TRAPPED BY SANDBAGS AT STAGING AREA. REPLACE SANDBAGS IF DETERIORATION IS EVIDENT.

18. DUST CONTROL SHOULD BE PRACTICED ON ALL CONSTRUCTION SITES WITH EXPOSED SOIL AS NEEDED. IT IS IMPORTANT IN WINDY OR WIND–PRONE AREAS. DUST CONTROL IS CONSIDERED A TEMPORARY MEASURE AND AS AN INTERMEDIATE TREATMENT BETWEEN SITE DISTURBANCE AND CONSTRUCTION, PAVING, OR REVEGETATION. REFER TO EROSION CONTROL AND SEDIMENT CONTROL FIELD MANUAL, 3RD EDITION, PREPARED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, SAN FRANCISCO BAY REGION.

19. VEHICLE WASH–OFF AREAS WILL VARY AS CONSTRUCTION PROGRESSES. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING ADEQUATE VEHICLE WASH–OFF AREAS THROUGH ALL STAGES OF CONSTRUCTION.

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PHASE 1A STREET IMPROVEMENT PLANS
EROSION & SEDIMENT CONTROL PLAN - KEY MAP
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=200'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C6.00

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C600-EC.dwg (C6.00)
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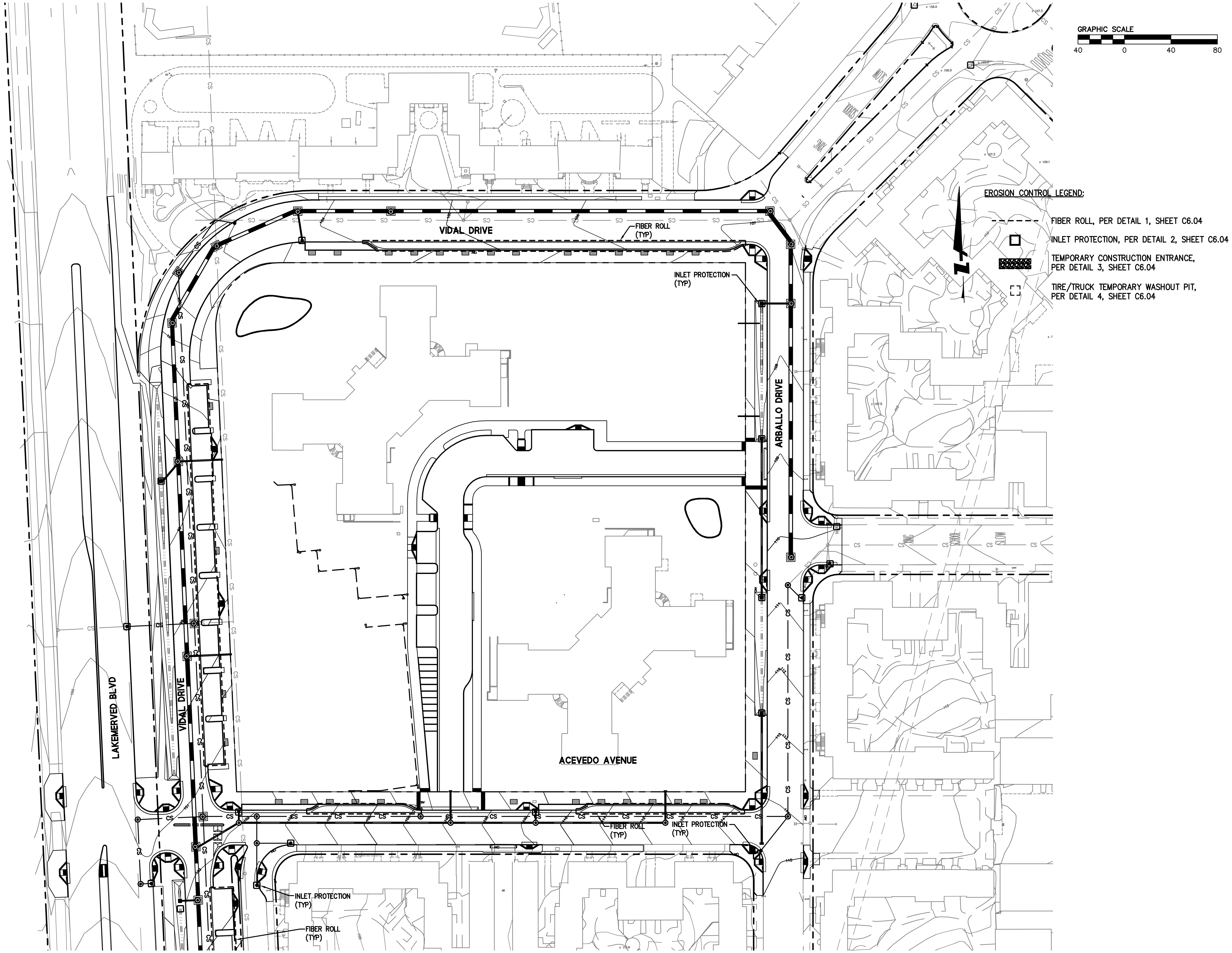

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PHASE 1A STREET IMPROVEMENT PLANS
EROSION & SEDIMENT CONTROL PLAN - NORTHWEST
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=40'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C6.01

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C600-EC.dwg (C6.01)
PLOT TIME: 4-27-2017 1:27 PM PLOTTED BY: bum

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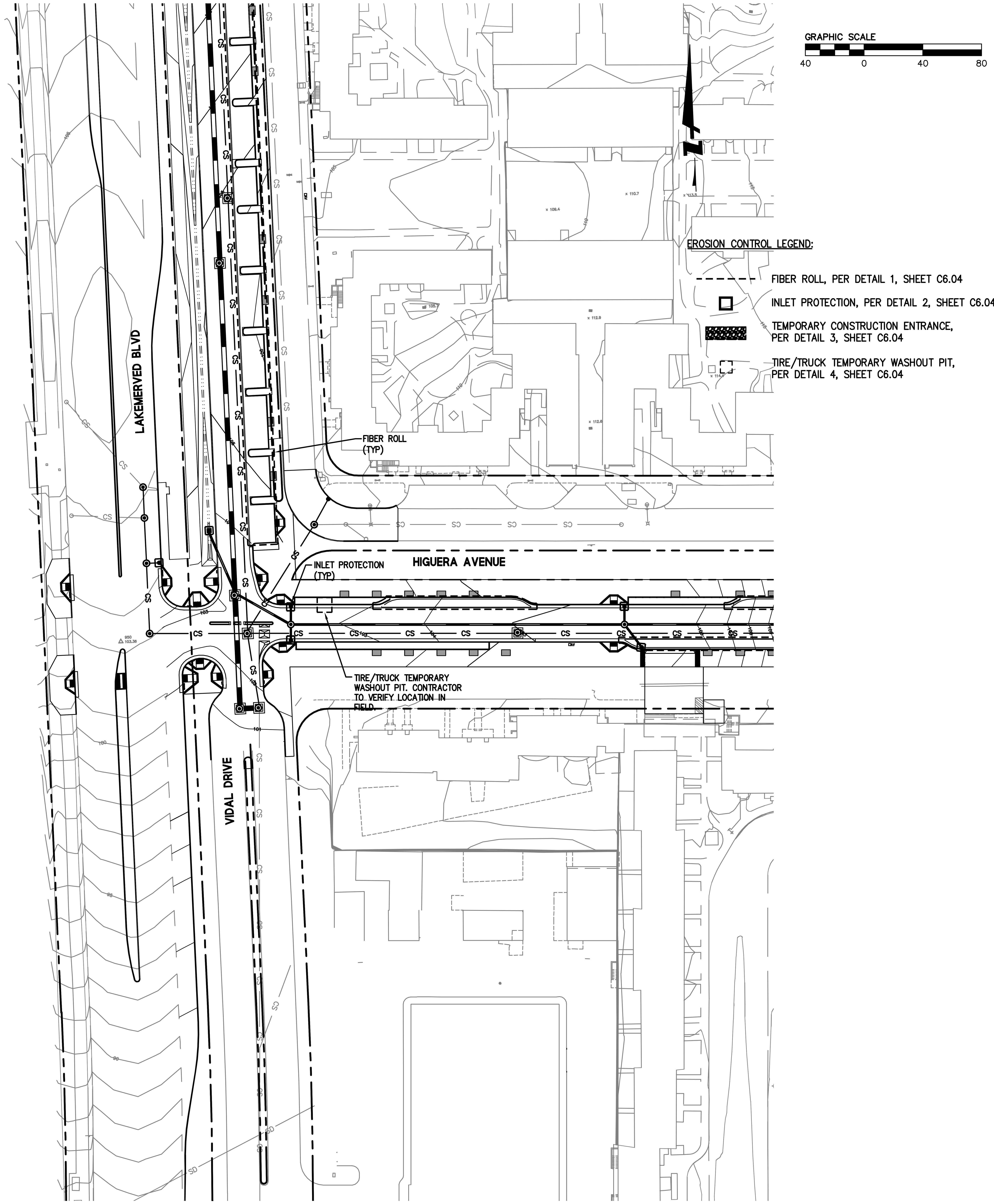

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PHASE 1A STREET IMPROVEMENT PLANS
EROSION & SEDIMENT CONTROL PLAN - WEST

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=40'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
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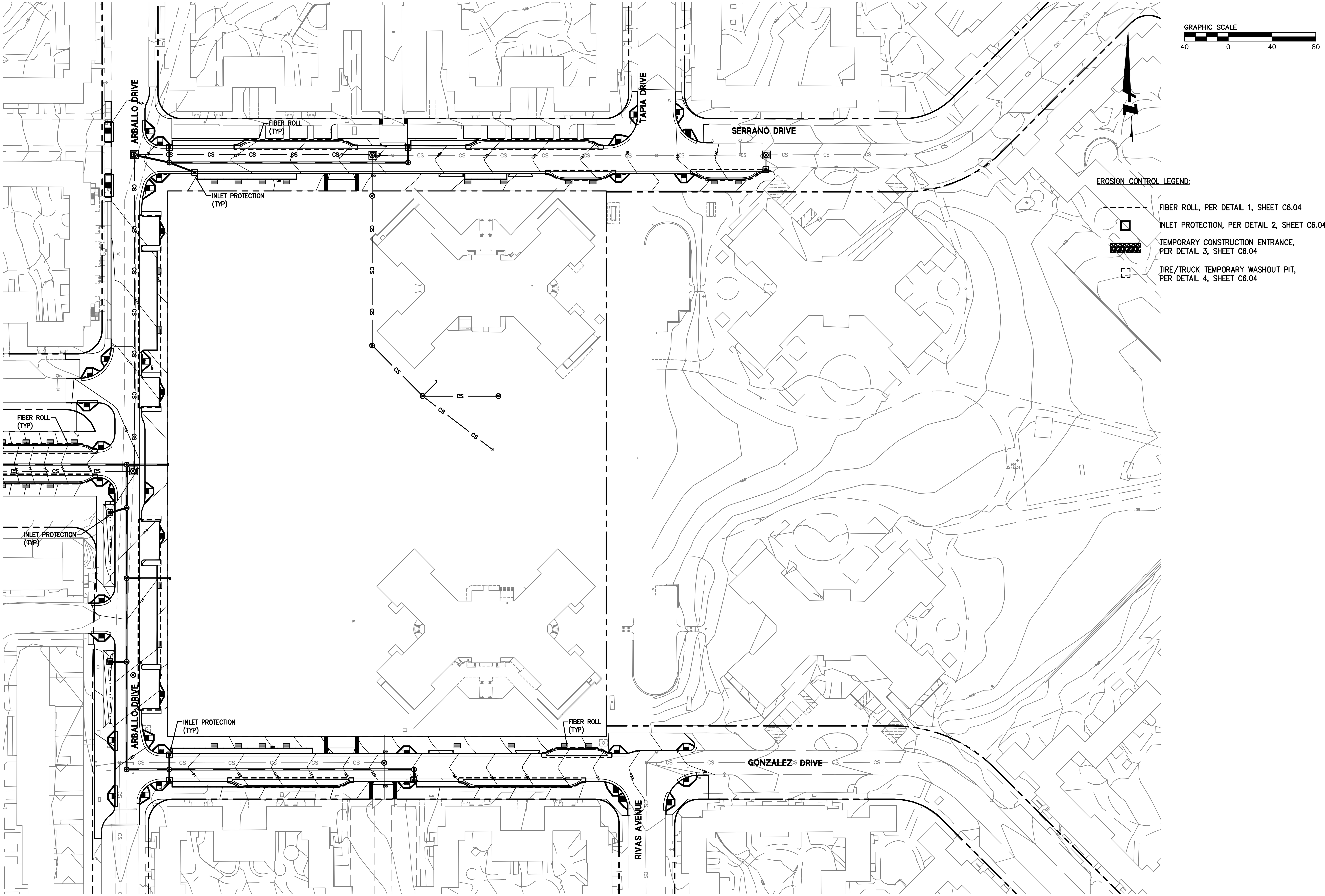

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PHASE 1A STREET IMPROVEMENT PLANS
EROSION & SEDIMENT CONTROL PLAN - EAST

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

Date: 05/01/17
Scale: 1"=40'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C6.03

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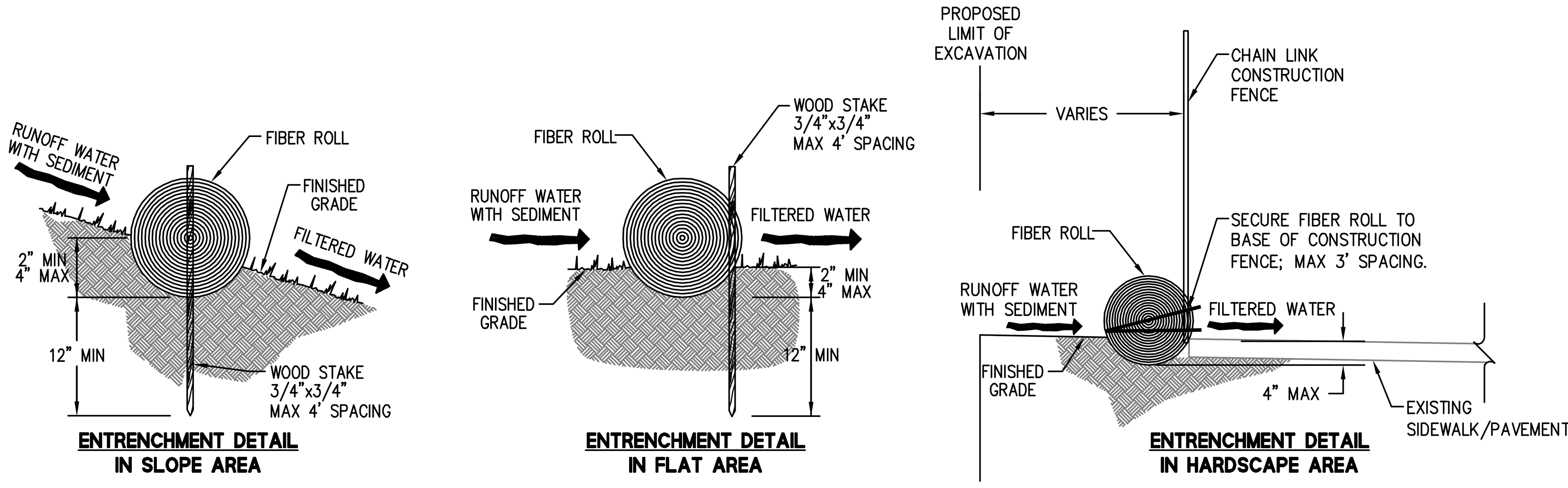
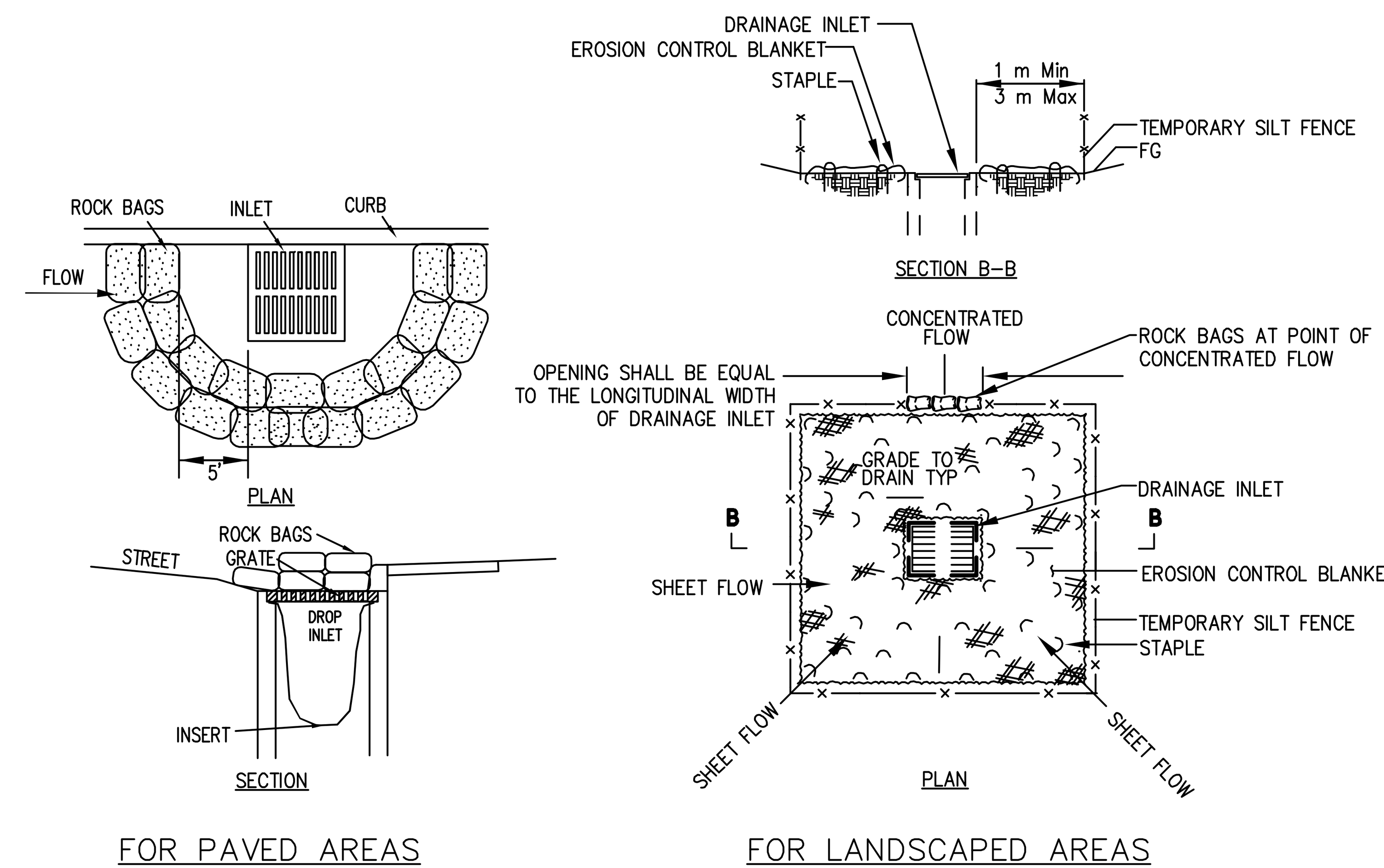


NOTES:
1. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 4" DEEP, DUG ON CONTOUR.
2. ADJACENT ROLLS SHALL TIGHTLY ABUT.
3. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.

1 **FIBER ROLL DETAIL**
N.T.S.



2 **DROP INLET PROTECTION**
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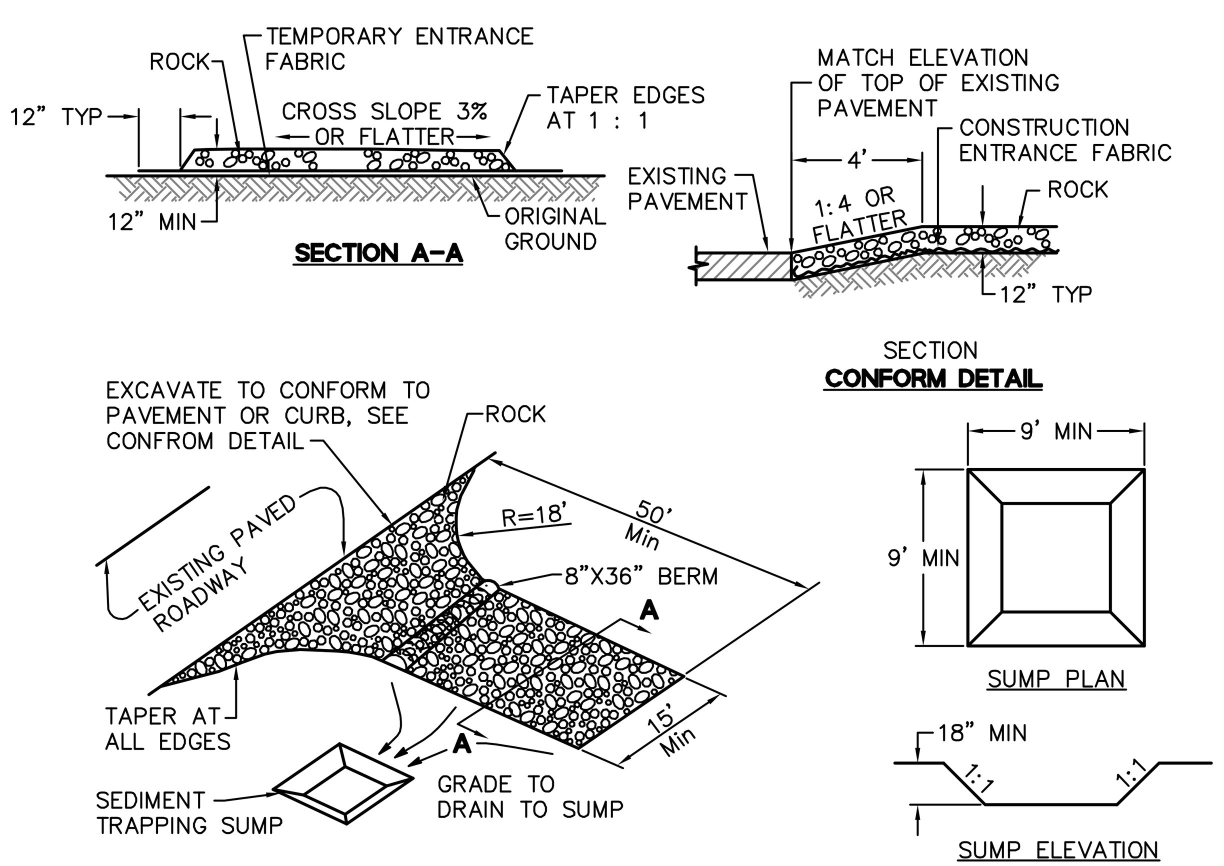

3 **TEMPORARY CONSTRUCTION ENTRANCE**
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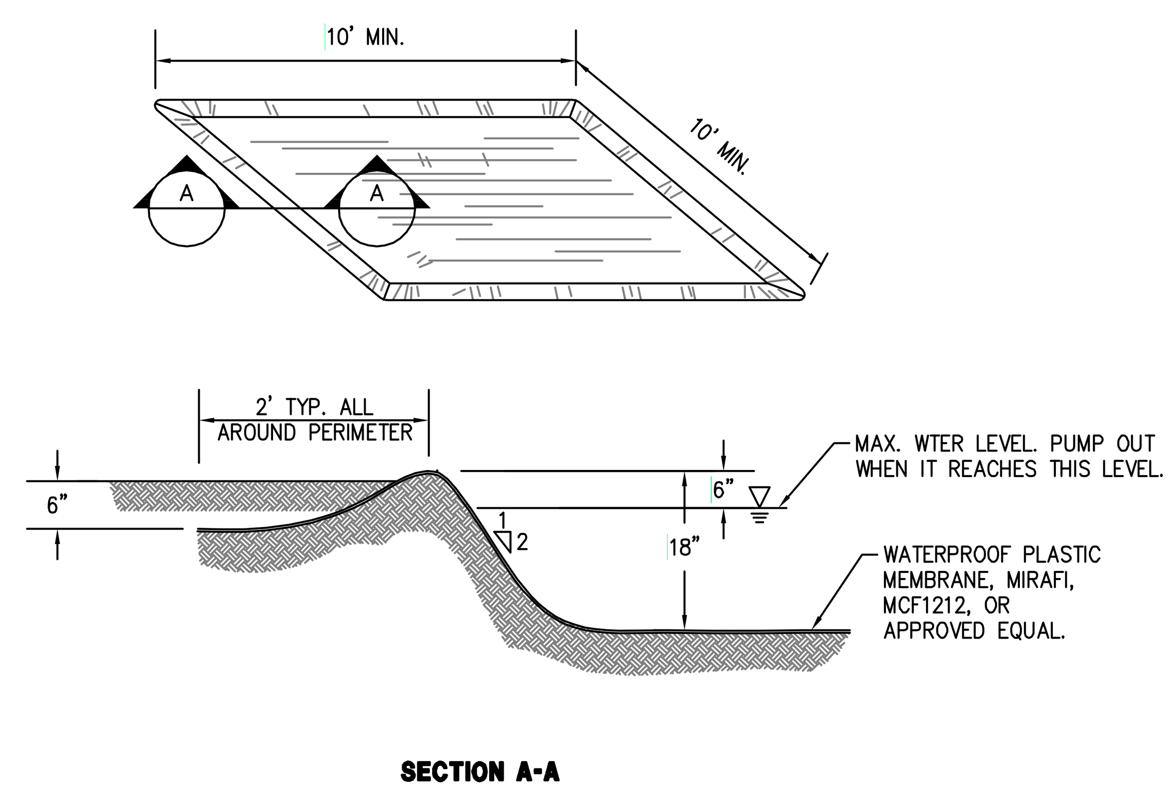

4 **TIRE/TRUCK TEMPORARY WASH OUT PIT**
N.T.S.

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PHASE 1A STREET IMPROVEMENT PLANS
EROSION & SEDIMENT CONTROL PLAN - DETAILS
SAN FRANCISCO COUNTY
SAN FRANCISCO CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: N.T.S.
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C6.04

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C600-EC.dwg (C6.04)
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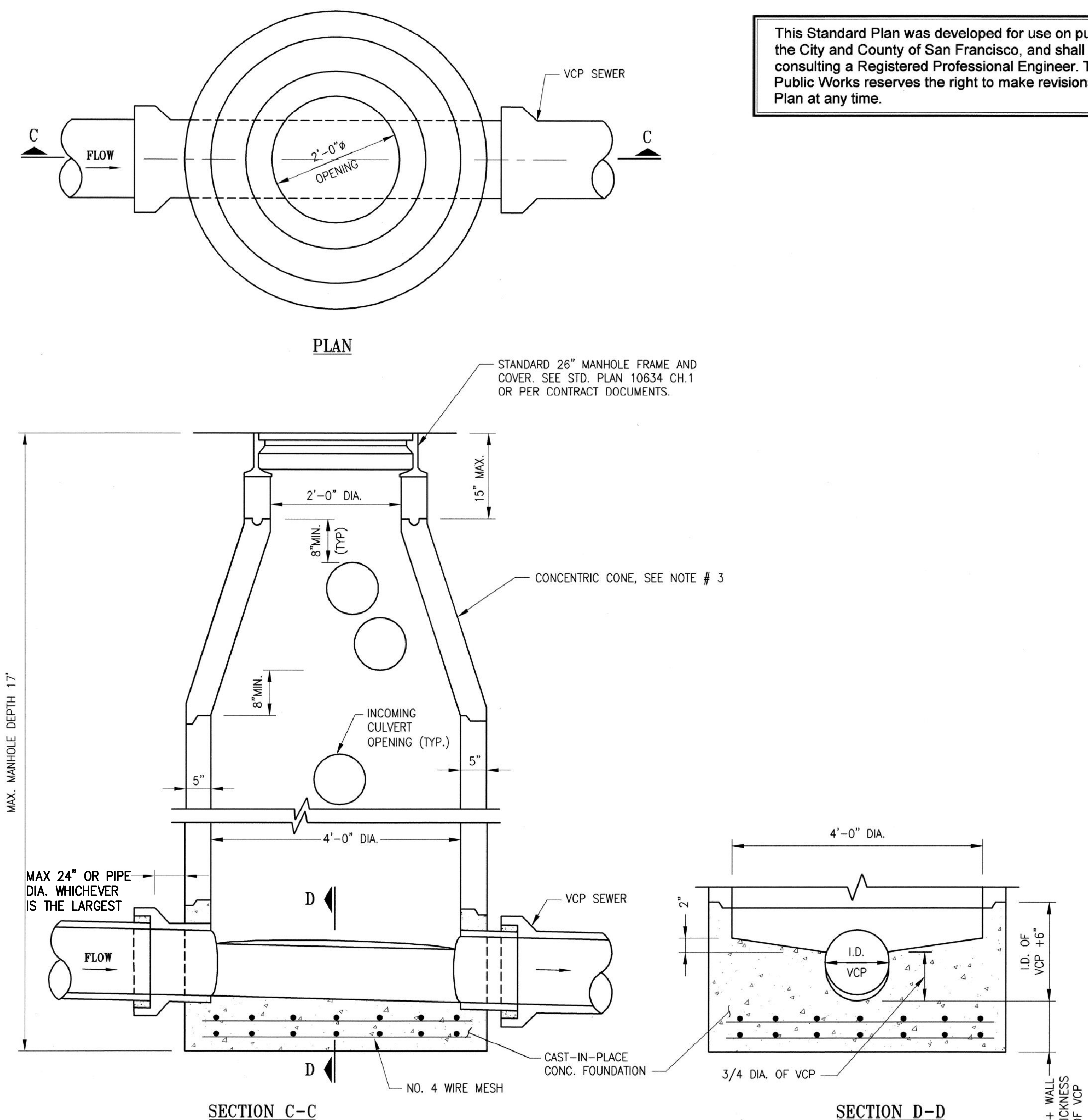
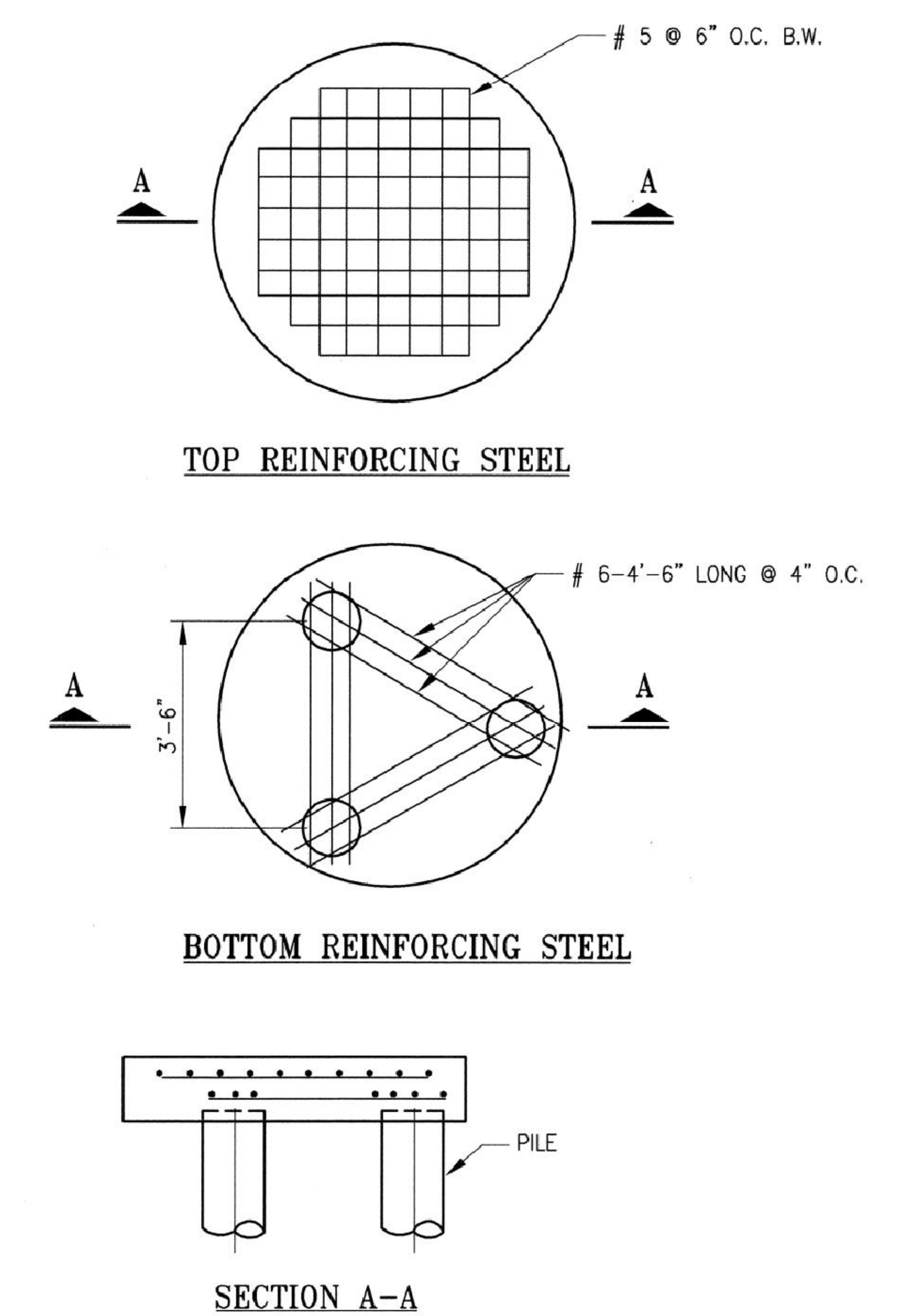
This Standard Plan was developed for use on public works projects in the City and County of San Francisco, and shall not be used without consulting a Registered Professional Engineer. The Department of Public Works reserves the right to make revisions to this Standard Plan at any time.



MANHOLE PLAN AND DETAILS

NOTES

1. MANHOLE FRAME AND ALL JOINTS SHALL BE SET IN CLASS "C" MORTAR.
2. ALL PRECAST COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
3. VERTICAL WALL OF CONCENTRIC CONE SHALL BE ON UPSTREAM SIDE OF MANHOLE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. CAST-IN-PLACE CONCRETE FOUNDATION SHALL BE CLASS 6-3000-3/4.
5. CULVERT OPENINGS SHALL BE A MINIMUM OF 8" FROM PRECAST SECTION JOINTS.
6. CONTRACTOR SHALL MINIMIZE NUMBER OF SECTION RINGS BY UTILIZING LARGEST SECTIONS AVAILABLE.
7. **STEEL REINFORCEMENT IN FOUNDATION IS REQUIRED.**
8. SIDE SEWER CONNECTIONS TO THE MANHOLE SHALL NOT BE HIGHER THAN 12" ABOVE THE INVERT OF THE MANHOLE.
9. CULVERT CONNECTIONS SHALL BE FLUSH WITH INSIDE FACE OF THE MANHOLE WALL.
10. MANHOLE DEPTH SHALL NOT EXCEED 17'.



REINFORCED CONCRETE FOUNDATION FOR MANHOLE ON PILES

NO.	DATE	DESCRIPTION	BY	APP.

TABLE OF REVISIONS
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION

REFERENCE INFORMATION & FILE NO. OF SURVEYS

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

REVIEWED:	DATE:
ID	12/2006
DRAWN:	DATE:
AM/JL	07/2003
CHECKED:	DATE:
KS	12/2006

PLANS APPROVAL DATE: APRIL 30, 2007
4/30/07 SECTION MANAGER
4/30/07 DEPUTY BUREAU MANAGER
BUREAU MANAGER

STANDARD PLAN
HYDRAULICS
PRECAST CONCRETE MANHOLE FOR 12" AND 24" DIAMETER SEWERS

OLD FILE NO. 45,560 CH 1
FILE NO. 87,181
REV. NO.

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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

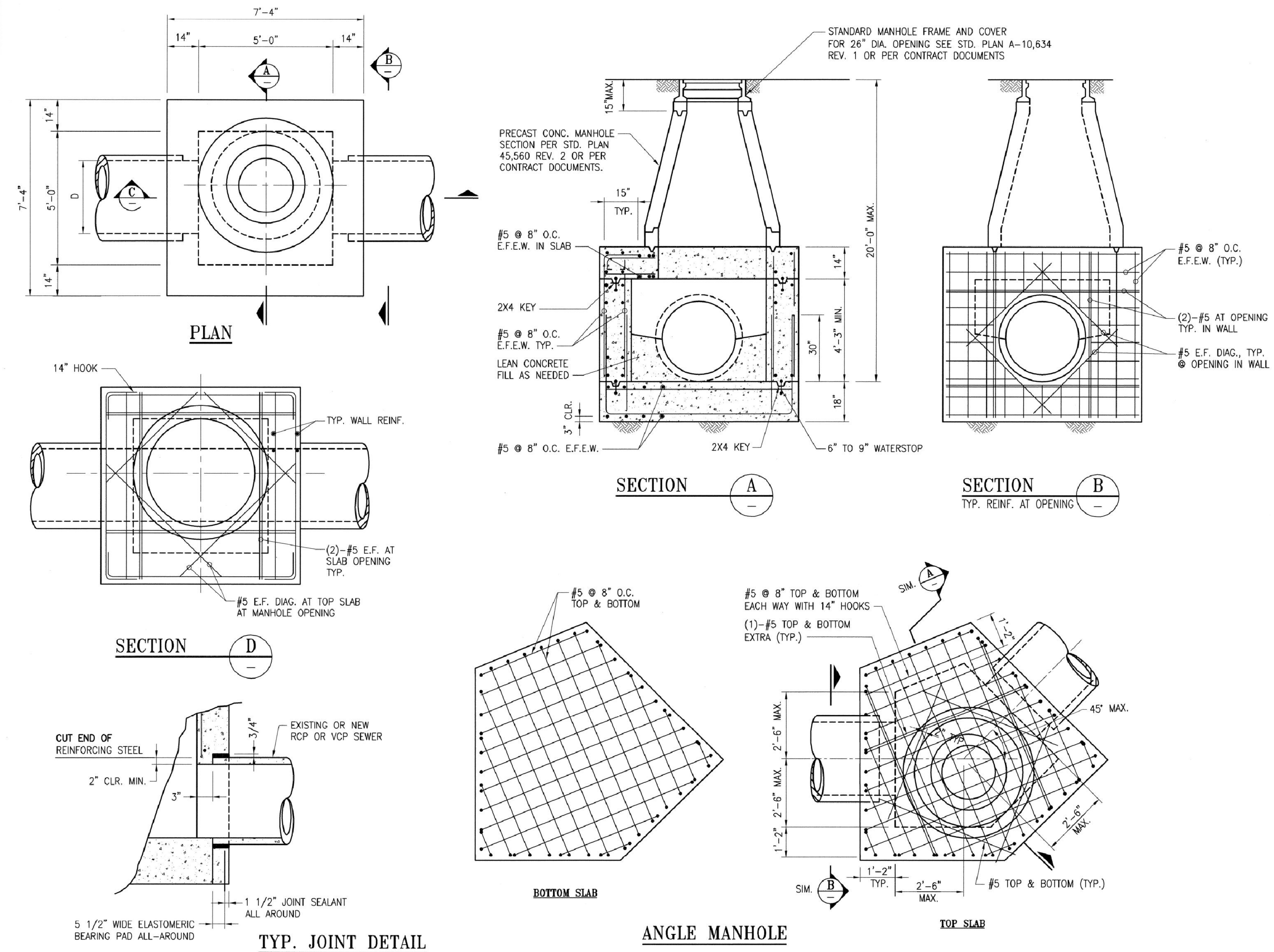
No.	Revisions

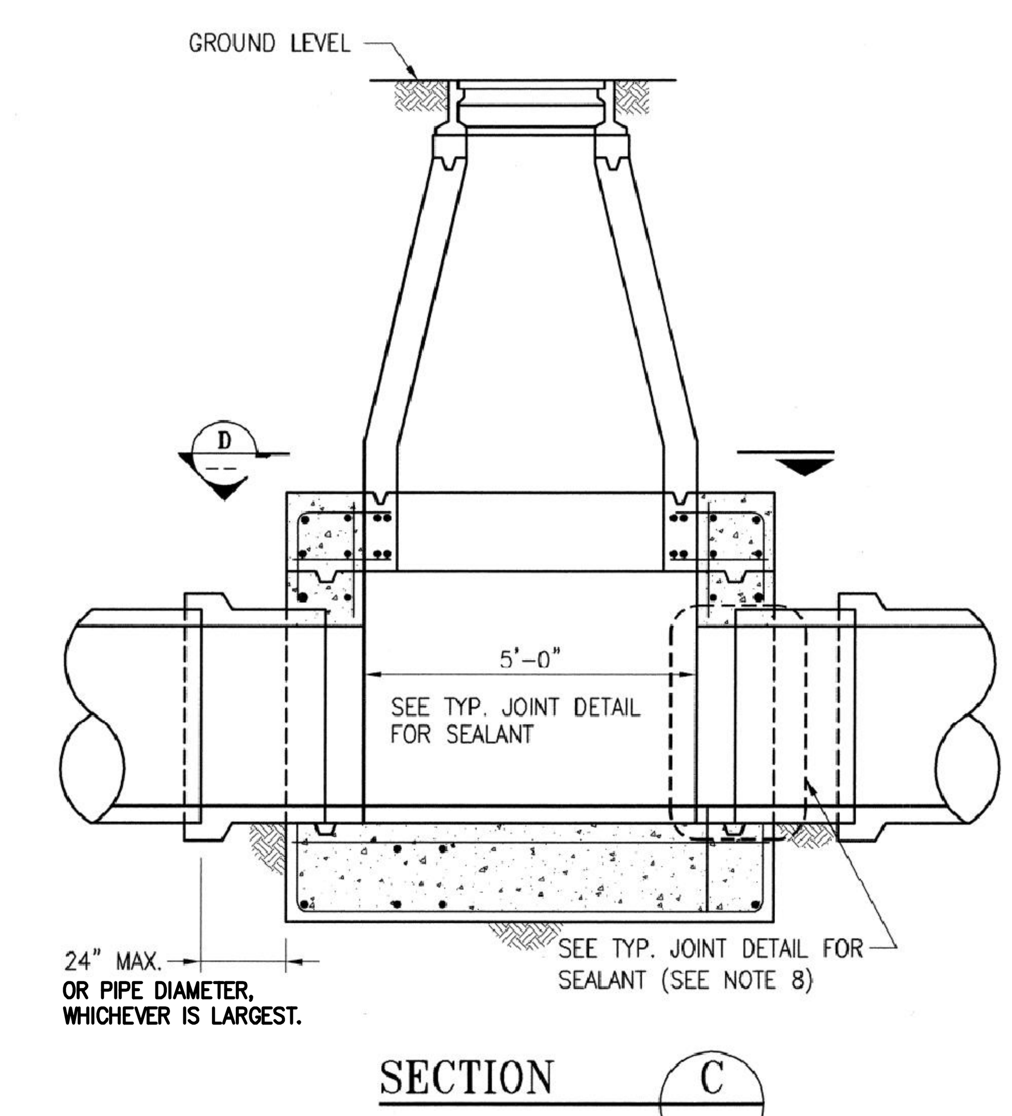
Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number: C7.00

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.00)
PLOT TIME: 4-28-2017 4:20 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17





GENERAL NOTES

1. ALL REINFORCING STEEL SHALL BE PLACED AT LEAST 2" FROM FACE OF CONCRETE, EXCEPT WHERE OTHERWISE SHOWN.
2. PROVIDE CONTINUOUS BENDS AT ALL CORNERS AND LAP BARS AS SHOWN.
3. MANHOLE FRAME AND ALL JOINTS SHALL BE SET IN A FLEXIBLE GASKET-JOINT SEALANT (RUB'R-NEK).
4. ALL PRECAST COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
5. CAST-IN-PLACE CONCRETE FOUNDATION SHALL BE CLASS 6-4000-3/4.
6. CULVERT OPENING SHALL BE A MINIMUM OF 8" FROM PRECAST SECTION JOINTS.
7. CONTRACTOR SHALL MINIMIZE THE NUMBER OF SECTION RINGS BY UTILIZING LARGEST SECTIONS AVAILABLE.
8. USE STEEL WALL ANCHOR RING CONNECTION PER CONTRACT DOCUMENTS FOR PIPE 42" AND GREATER.
9. HEIGHT OF CAST-IN-PLACE PORTION OF MANHOLE SHALL BE INCREASED, AS NECESSARY, TO ACCOMODATED EGG-SHAPED AND OTHER MONOLITHIC SEWERS.

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NO.	DATE	DESCRIPTION	BY	APP.

TABLE OF REVISIONS
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REFERENCE INFORMATION & FILE NO. OF SURVEYS

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REVIEWED: ID	DATE: 12/2006	
DRAWN: AM	DATE: 07/2003	
CHECKED: KS	DATE: 12/2006	

PLANS APPROVAL DATE: APRIL 30, 2007
4/30/07 SECTION MANAGER
4/30/07 DEPUTY BUREAU MANAGER
BUREAU MANAGER

STANDARD PLAN
HYDRAULICS
STANDARD CONCRETE MANHOLE FOR PIPE SEWERS 27" TO 48" DIAMETER

OLD FILE NO. 48,057 CH 3
FILE NO. 87,182
REV. NO.

255 SHORELINE DR
SUITE 200
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650-482-6300
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CONSTRUCTION DETAILS
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

Revisions
No.

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.01

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.01)
PLOT TIME: 4-28-2017 4:20 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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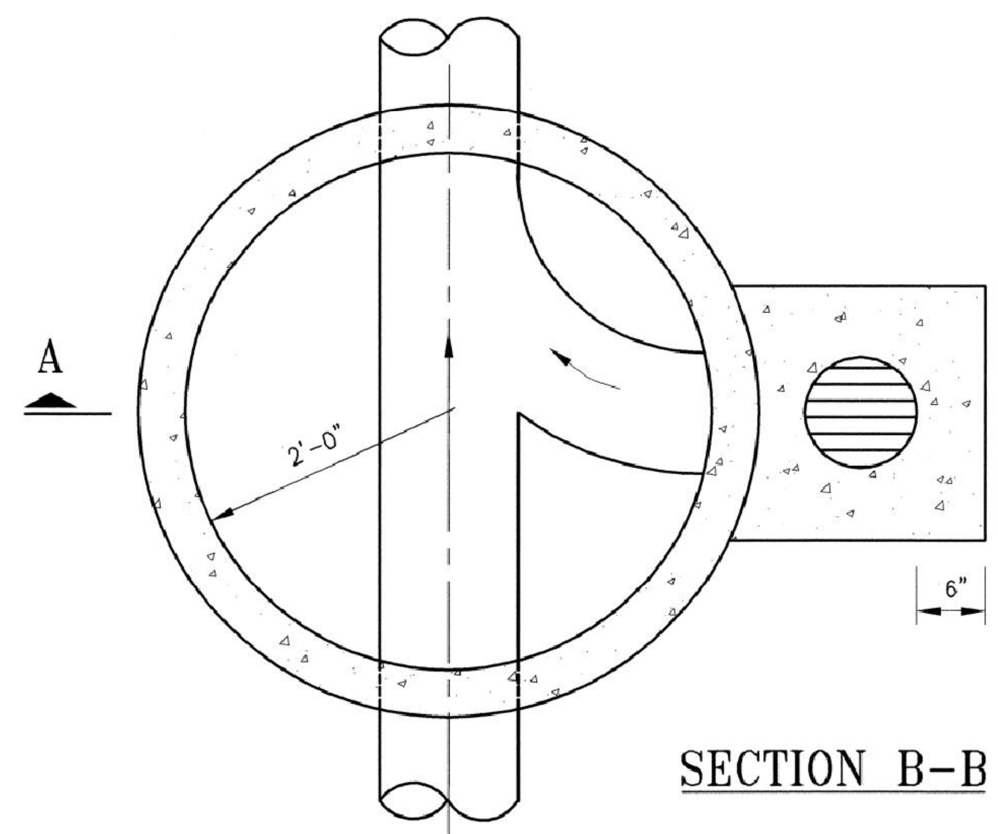
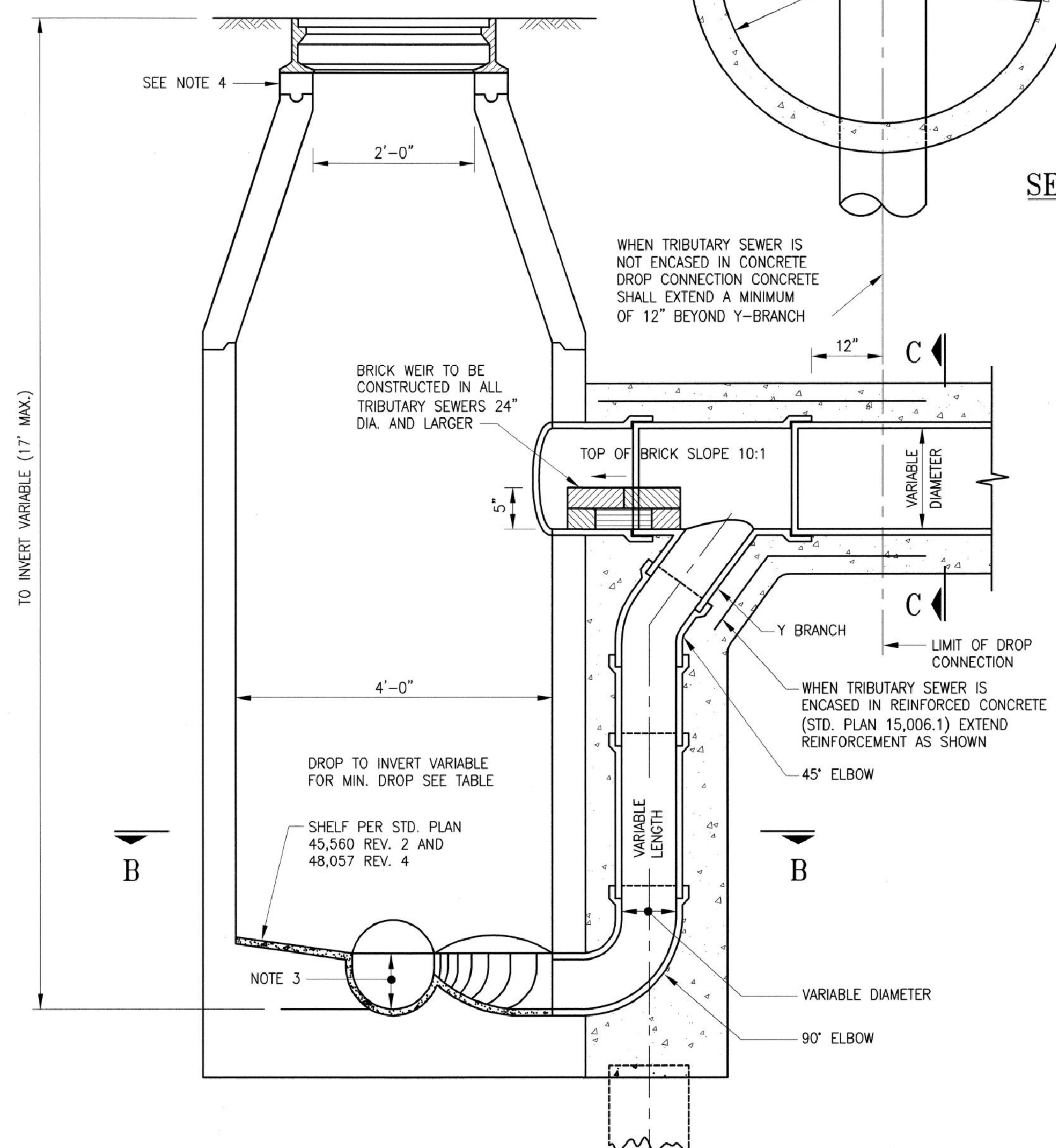
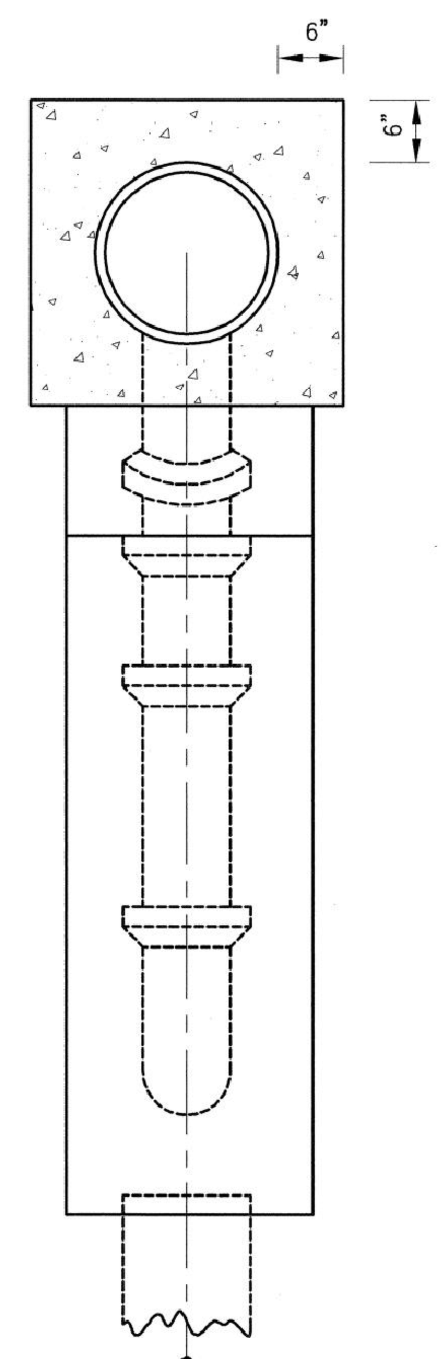


SECTION B-B





DROP PIPE SHALL BE SUPPORTED ON PILE ONLY WHEN THE TRIBUTARY SEWER PIPE IS ON PILES

SECTION A-A

SECTION C-C

TABLE

SIZE OF TRIBUTARY SEWER	SIZE OF DROP PIPE	MINIMUM DROP
8"	6"	3'-3"
12"	6"	3'-3"
15"	8"	3'-9"
18"	8"	3'-9"
21"	10"	4'-6"
24"	10"	4'-6"
27"	12"	5'-0"
30"	12"	5'-0"
33"	12"	5'-0"
36"	12"	5'-0"

GENERAL NOTES

1. FOR DETAILS OF M.H. FRAME & COVER, SEE STANDARD PLAN A-10,634 CH. 1
2. DEPTH OF CHANNEL SHALL BE 3/4 THE DIAMETER OF THE LARGEST PIPE TRIBUTARY TO MANHOLE OR AS SHOWN IN PLANS FOR A PARTICULAR PROJECT. THE MANHOLE FLOOR AND CHANNEL SHELL BE PLASTERED WITH CLASS "C" MORTAR 1/2" THICK
3. WHERE TWO OR MORE DROP INLETS ARE REQUIRED, EACH INLET SHALL BE BUILT AS SHOWN FOR SINGLE DROP INLET IN THE ABOVE SECTIONS
4. FOR DETAILS OF MANHOLE SEE STD. PLANS 45,560 REV. 2 & 48,057 REV. 4 SFPUC/DPW STANDARD SPECIFICATIONS
5. FOR ENCASEMENT AND STEEL DETAILS SEE STANDARD PLAN A-15,006.1
6. ALL CONCRETE SHALL BE CLASS 6-3000-3/4

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4/30/07 DEPUTY BUREAU MANAGER
BUREAU MANAGER

STANDARD PLAN
HYDRAULICS
DROP MANHOLE
FOR V.C.P. SEWERS

OLD FILE NO. LL-266 CH 4
FILE NO. 87,186
REV. NO.

Xrefs: V:\0966J Standard Plans & Specs Update\2_Plans\Title_Block\BOE STD Title Block.dwg
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PLOT TIME: 4-28-2017 4:20 PM PLOTTED BY: bum

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No.	Revisions

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Drawn: NL
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Job No: 20090086

Drawing Number:
C7.02

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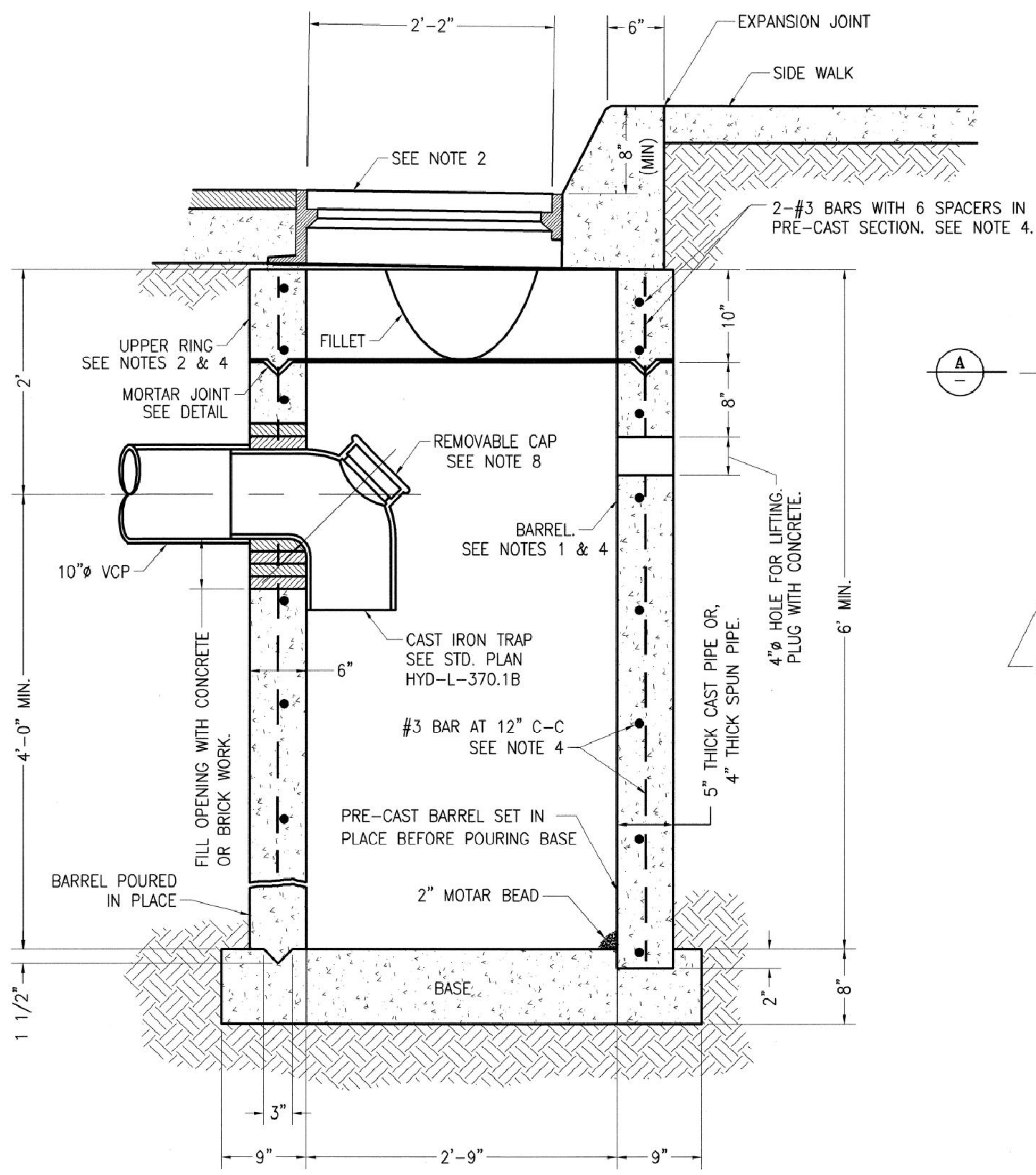
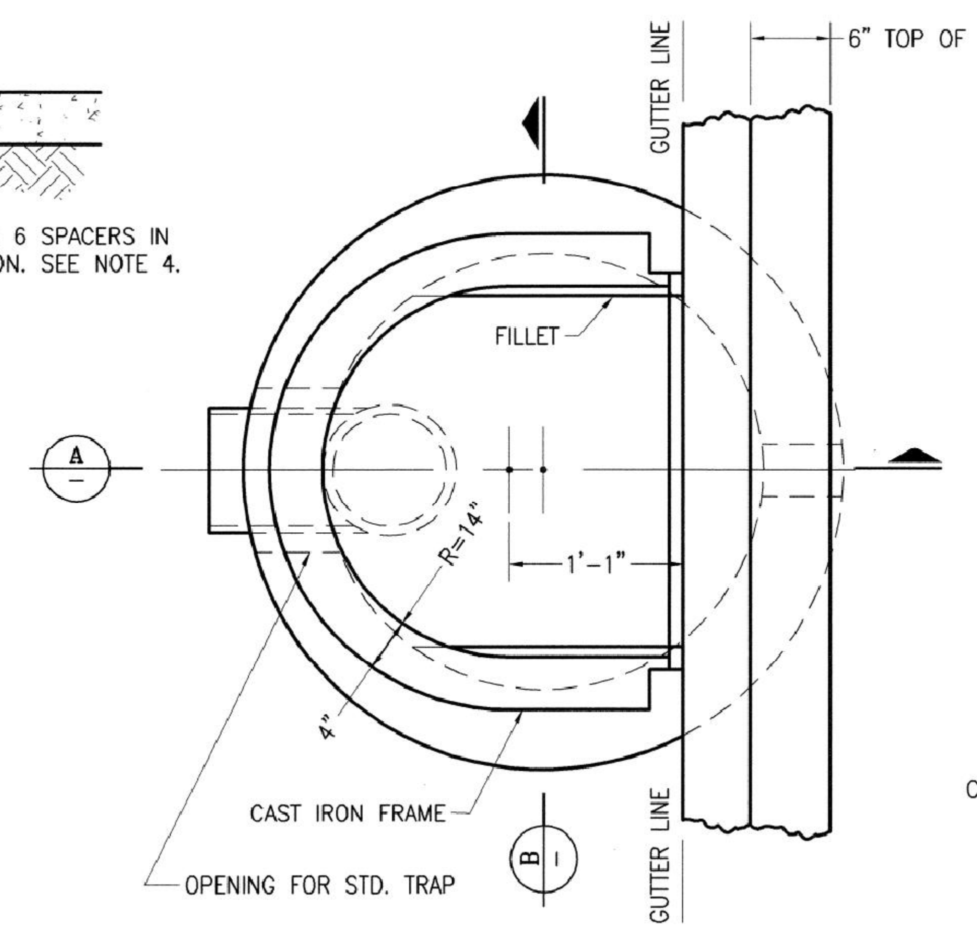


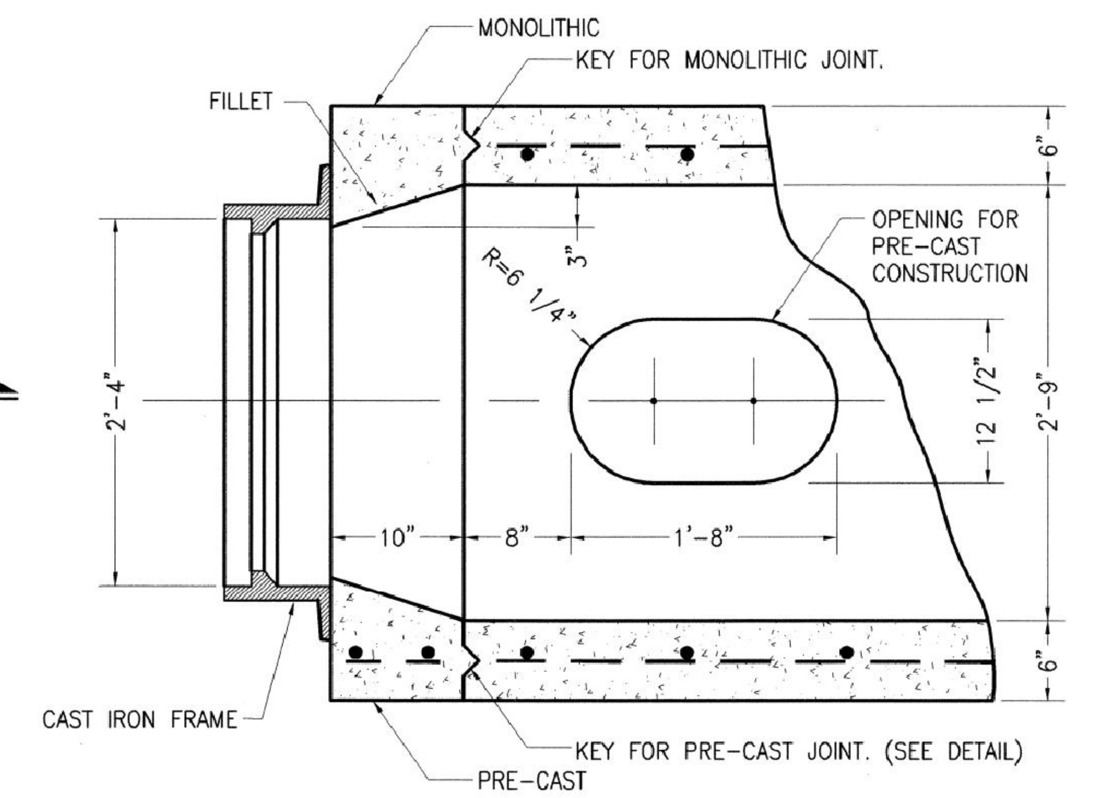
SEACTION A-A

SCALE: 1"=10"



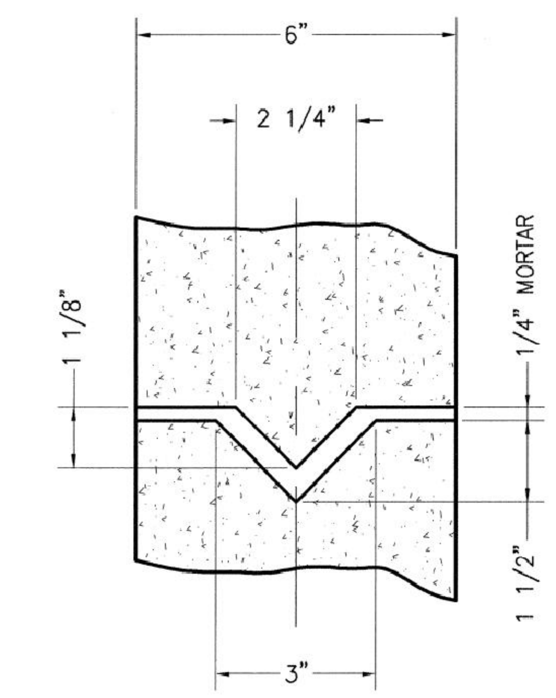
PLAN

SCALE: 1"=10"



SECTION B-B

SCALE: 1"=10"



DETAIL OF KEY

NOT TO SCALE

NOTES:

1) BARREL OF C.B. MAY BE PRE-CAST CONCRETE WITH REINFORCING STEEL AS SHOWN, OR POURED IN PLACE CONCRETE WITHOUT STEEL.
2) UPPER RING OF C.B. MAY BE PRE-CAST CONCRETE WITH MATCHING KEY AS SHOWN OR POURED IN PLACE CONCRETE WITHOUT STEEL, OR CONSTRUCTED OF BRICK.
3) FOR DETAILS OF CATCH BASIN FRAME AND GRATING SEE STD. PLAN HYD-LL-360 REV. 5
4) 4"X4" MESH No.4 X No.4 WIRE MAY BE SUBSTITUTED FOR REINFORCING BARS.
5) BASE SHALL BE CONCRETE POURED IN PLACE.
6) ALL CONCRETE SHALL BE CLASS 6-3000-3/4.
7) FRAME AND GRATES OF CATCH BASINS TO BE INSTALLED IN TRAVELED LANES SHALL CONFORM TO GUTTER ELEVATION.
8) CLEANOUT CAP SHALL BE "T" CONE EXPANDABLE CLEANOUT PLUG S-802 OF ETCO SPECIAL PRODUCTS, INC. OR EQUAL.

NO.	DATE	DESCRIPTION	BY	APP.

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KS	12/2006

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4/30/07 SECTION MANAGER
4/30/07 DEPUTY BUREAU MANAGER
BUREAU MANAGER

STANDARD PLAN
HYDRAULICS
STANDARD CONCRETE CATCH BASIN WITHOUT CURB INLET AND WITH CAST IROM TRAP

OLD FILE NO. LL-18,039.1 CH 7
FILE NO. 87,188
REV. NO.

255 SHORELINE DR
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Scale: NONE
Design: TH
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Approved: BS
Job No: 20090086

Drawing Number:
C7.03

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Measurement Units are English
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PLOT TIME: 4-28-2017 4:20 PM PLOTTED BY: bum

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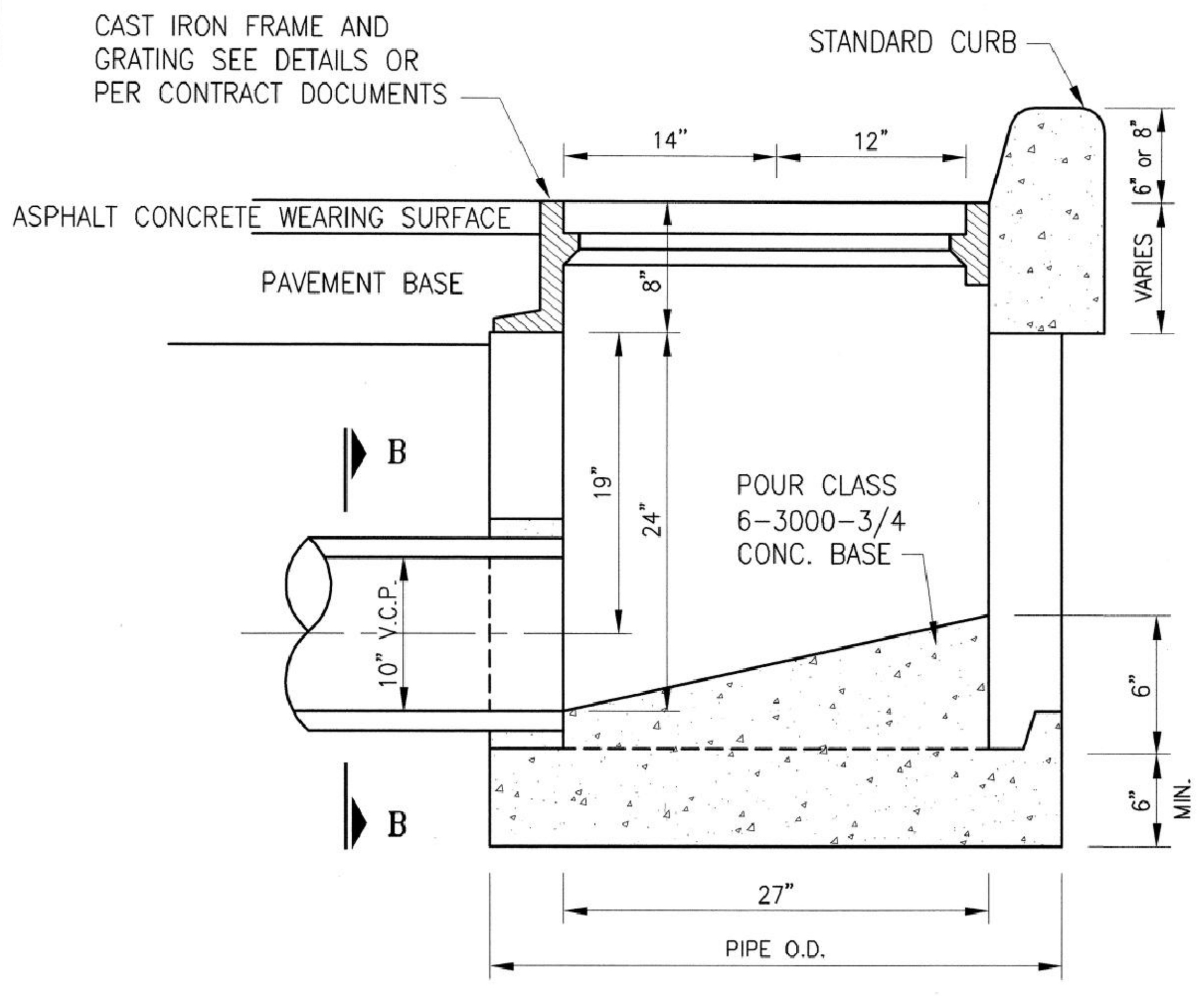
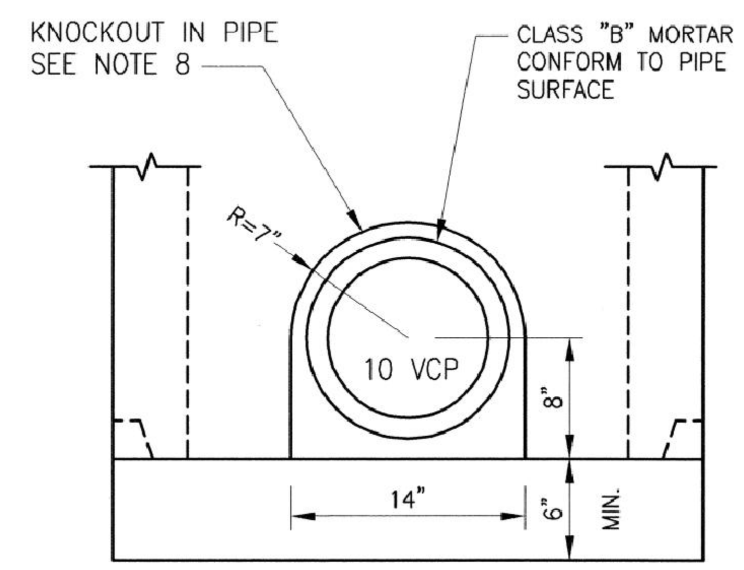
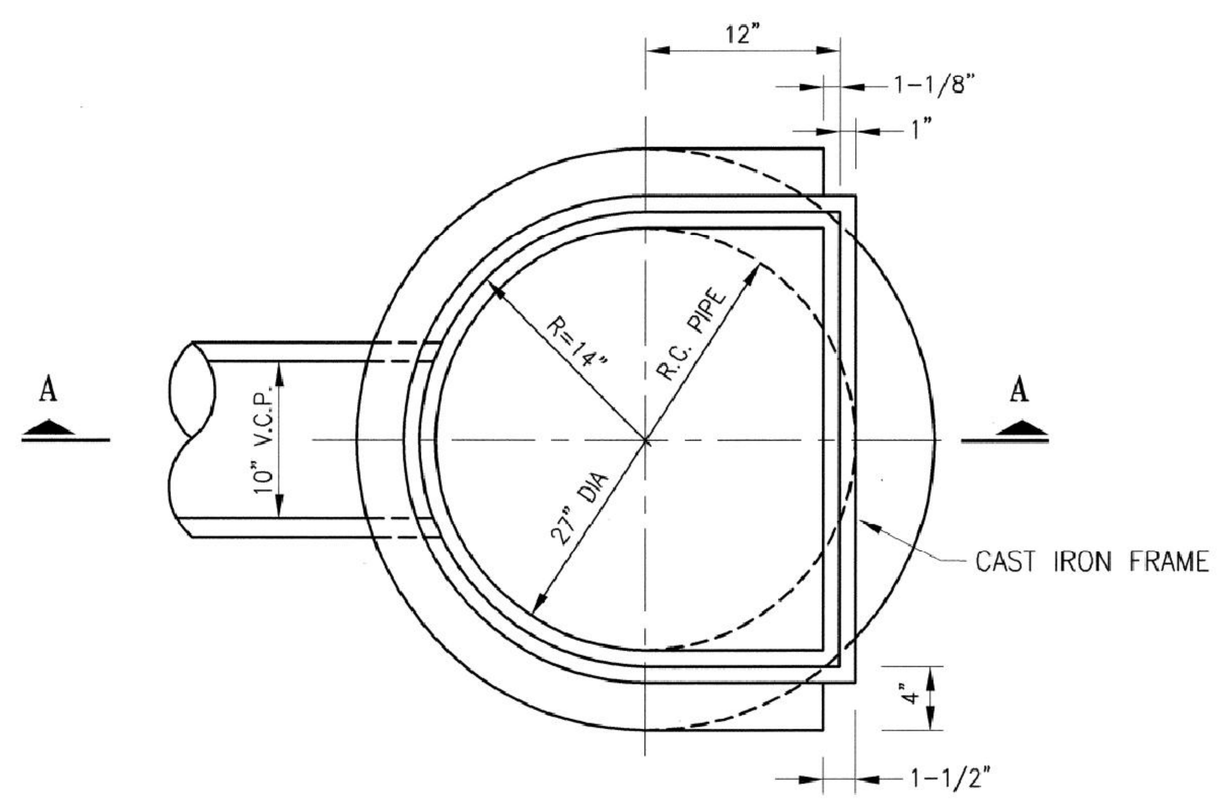


SECTION A-A

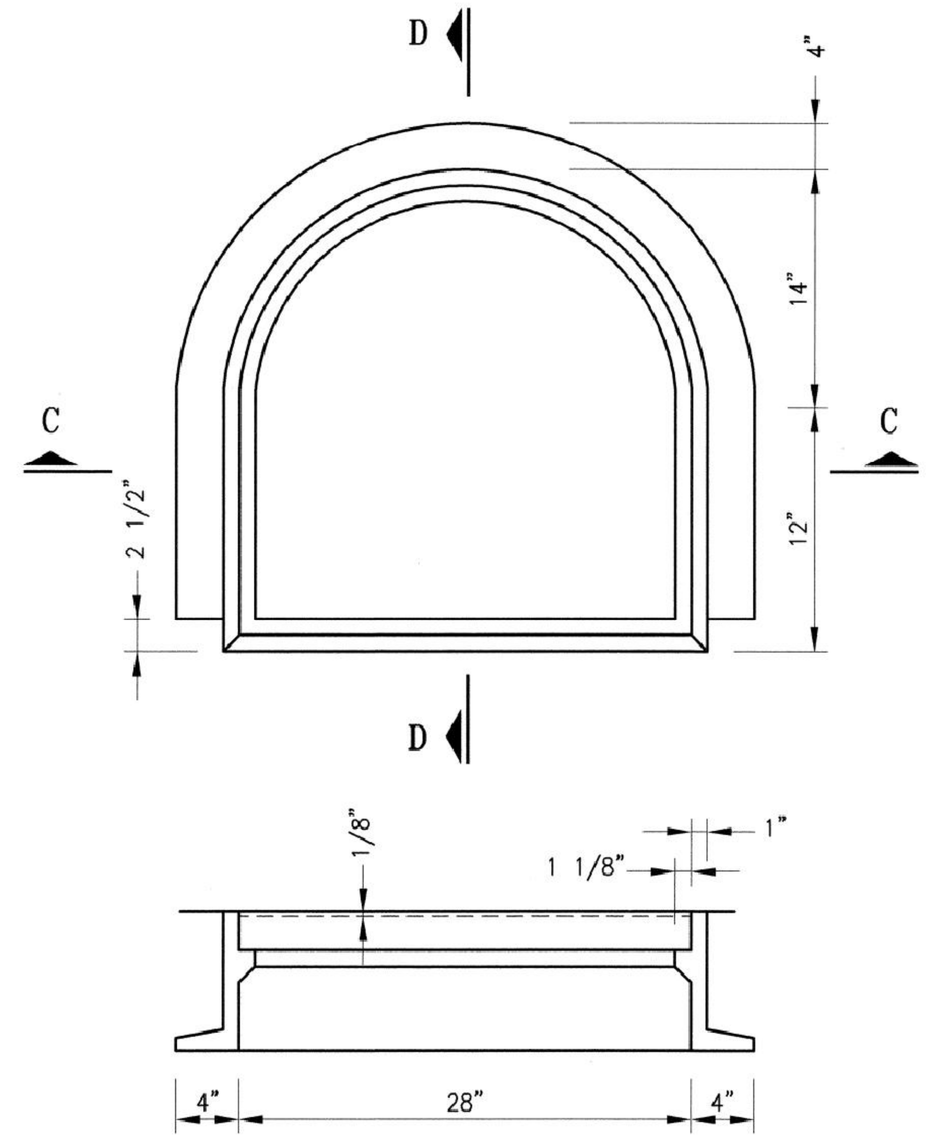


SECTION B-B

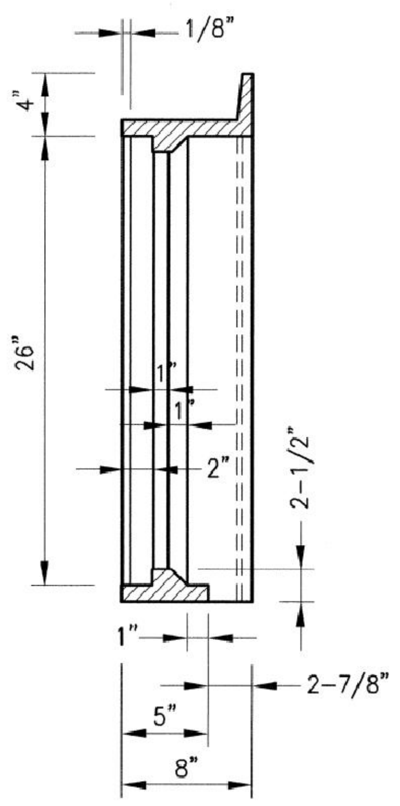


PLAN

STORM WATER INLET

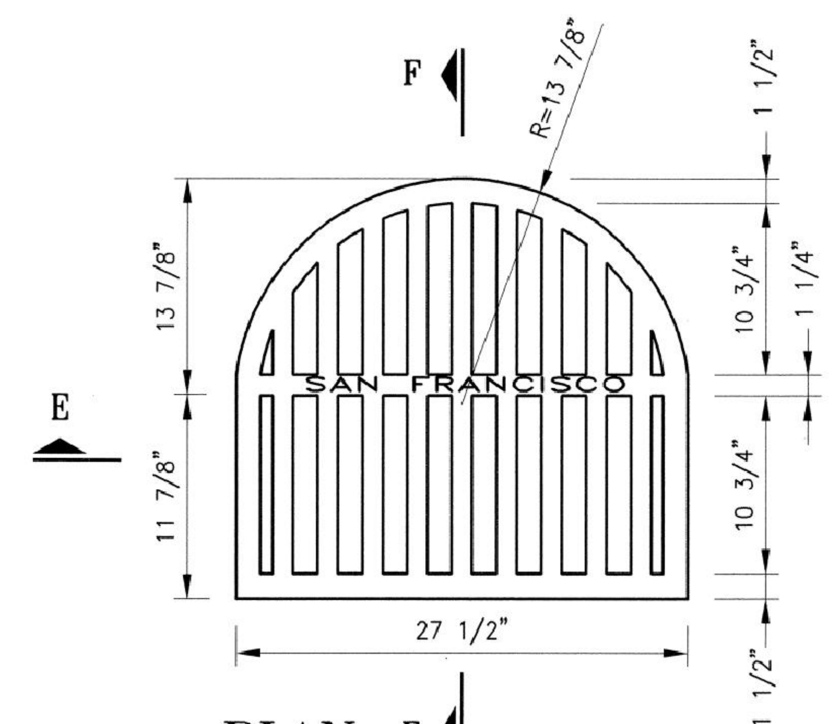


SECTION C-C

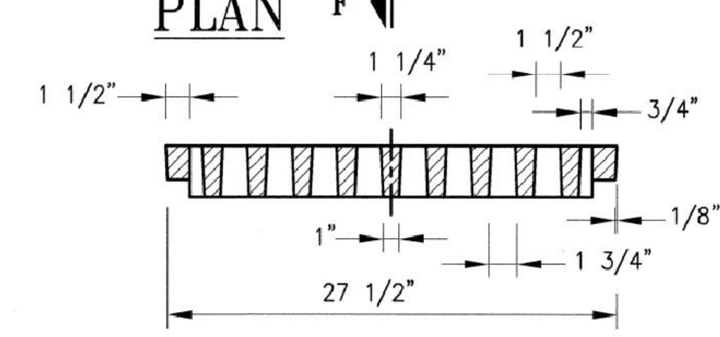


SECTION D-D

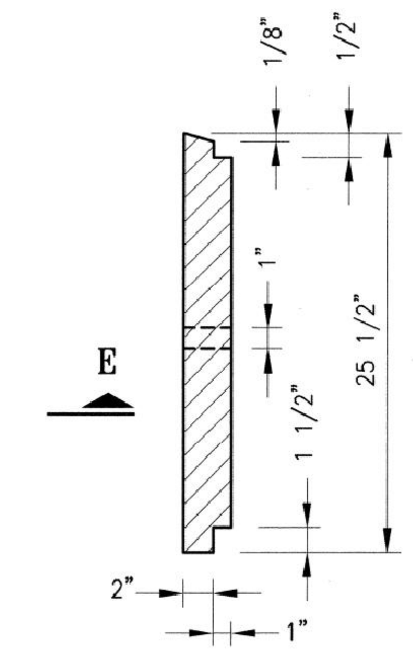
CAST IRON FRAME



PLAN



SECTION E-E



SECTION F-F

CAST IRON GRATING

GENERAL NOTES

1. CAST IRON SHALL BE IN ACCORDANCE WITH THE CURRENT A.S.T.M. STANDARD SPECIFICATIONS FOR GRAY-IRON CASTINGS (CL 30). DESIGNATION A-48.
2. PRECAST REINFORCED CONCRETE PIPE SHALL BE IN ACCORDANCE WITH THE CURRENT A.S.T.M. STANDARD SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT STORM DRAIN AND SEWER PIPE, DESIGNATION C-76.
3. COMPUTED WEIGHT OF FRAME – 260 POUNDS.
4. COMPUTED WEIGHT OF GRATING – 250 POUNDS.
5. THE NAME OF THE FOUNDRY, THE YEAR OF MANUFACTURE AND THE PATTERN NUMBER SHALL BE CAST ON THE UNDERSIDE OF EACH CASTING IN 3/4" LETTERS RAISED 1/8".
6. THE WORD "SAN FRANCISCO" SHALL BE CAST AS INDICATED ON THE TOP OF THE GRATING IN 3/4" LETTERS RAISED 1/8".
7. FINISH: GRIND HIGH SPOTS FROM CONTACT SURFACES TO OBTAIN BEARING OF GRATING ON FRAME.
8. PIPE BARREL MAY BE PROVIDED WITH A KNOCKOUT AS SHOWN OR THE CULVERT CONNECTION MAY BE MADE BY CHIPPING OUT IN ACCORDANCE WITH SF PUC. STANDARD SPECIFICATIONS.
9. OUTLET PIPE MAY BE POINTED IN ANY DIRECTION.

NO.	DATE	DESCRIPTION	BY	APP.

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STANDARD PLAN
HYDRAULICS
STORM WATER INLET

OLD FILE NO. A-33,585 CH 2
FILE NO. 87,189
REV. NO.

Xrefs: V:\0966J Standard Plans & Specs Update\2_Plans\Title_Block\BOE STD Title Block.dwg
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Drawing Path: V:\0966J Standard Plans & Specs Update\2_Plans\FINAL\HYD\SP-87189.dwg, Login: carontos Measurement Units are English
Plot Time: Fri, 27 Apr 2007 - 7:40pm

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Drawing Number: C7.04

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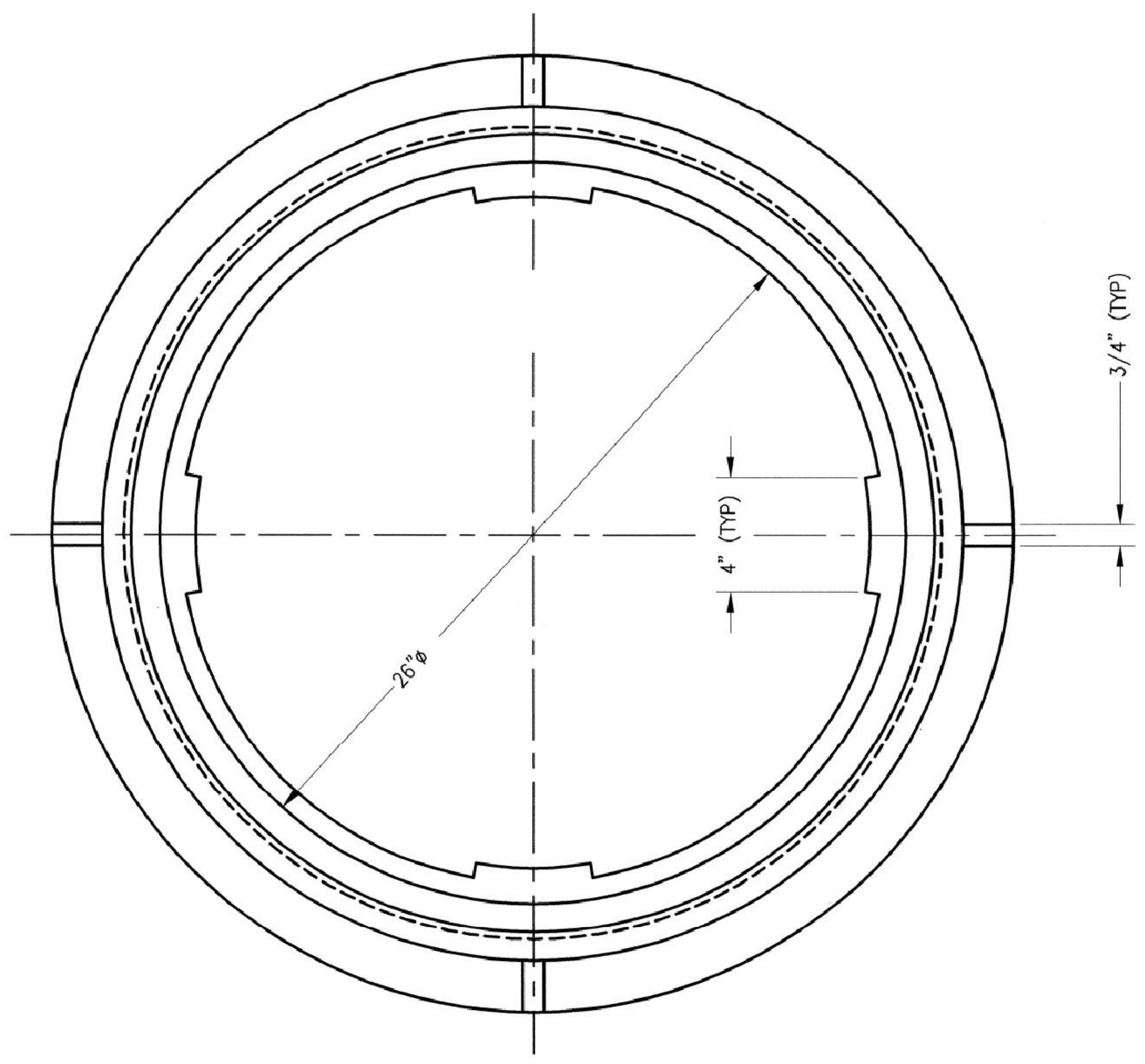
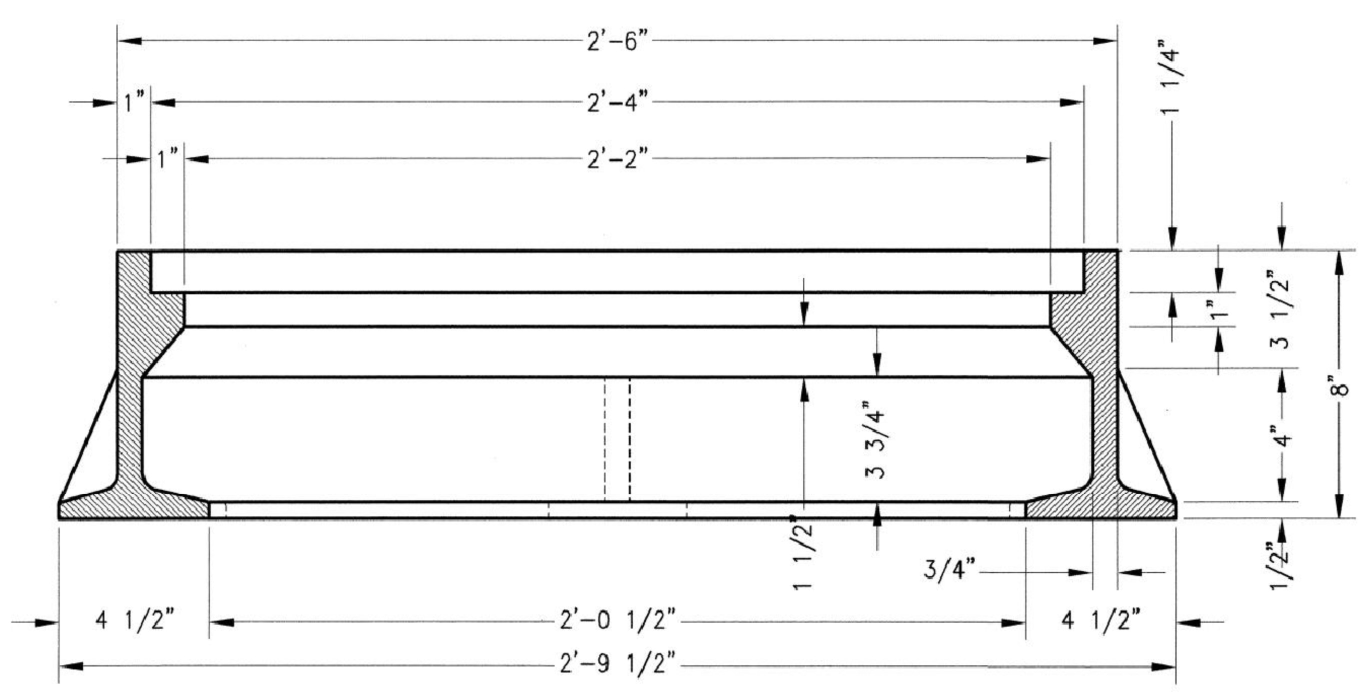


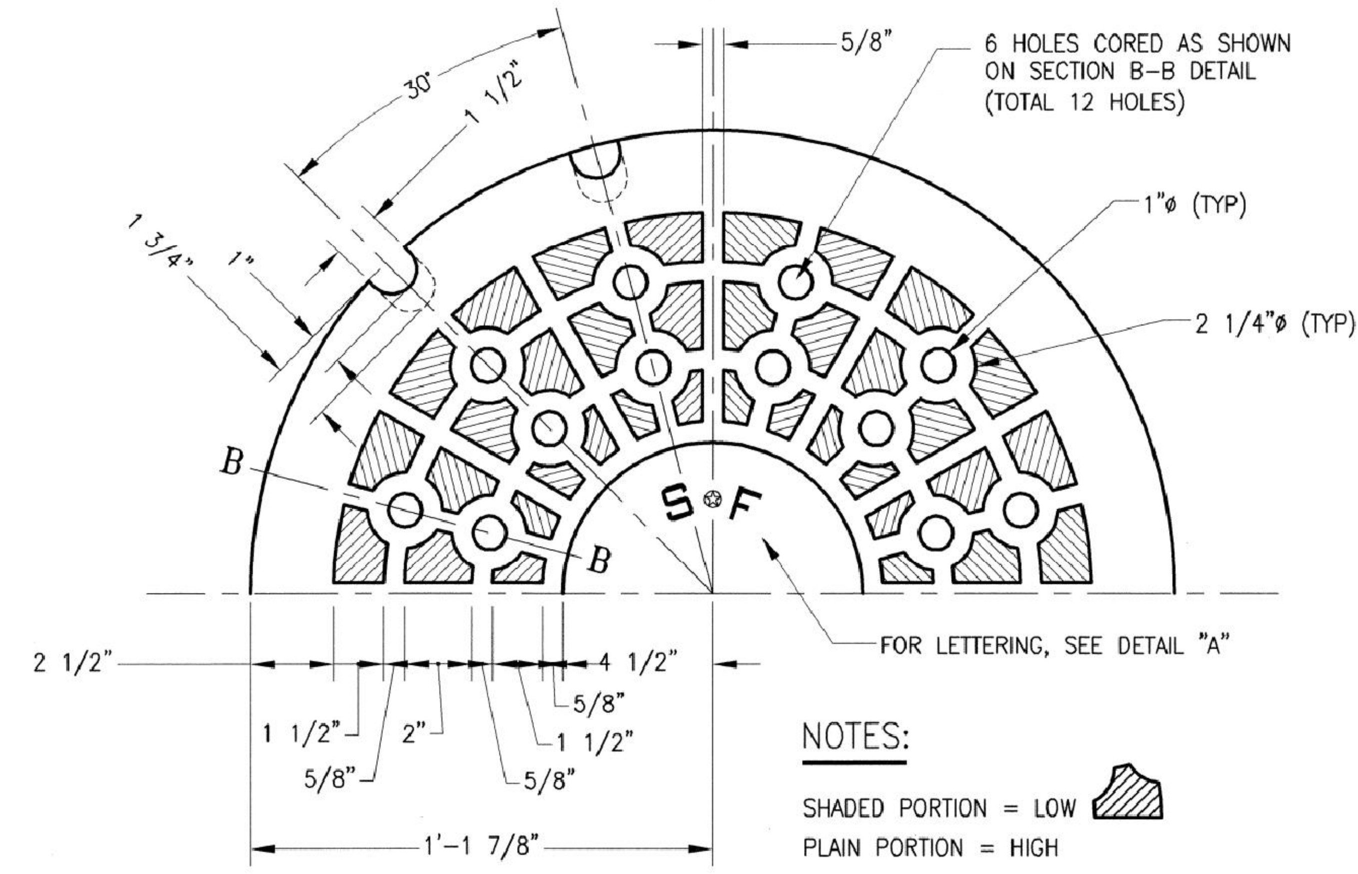
PLAN VIEW OF MANHOLE FRAME
SCALE: 1"=4"



SECTION OF MANHOLE FRAME
SCALE: 1"=4"

APPROX. WEIGHT 258 LBS.

NOTE : MATERIAL FOR MANHOLE FRAME AND COVER TO BE "GRAY IRON" IN ACCORDANCE WITH CURRENT A.S.T.M. – SPEC. A-48

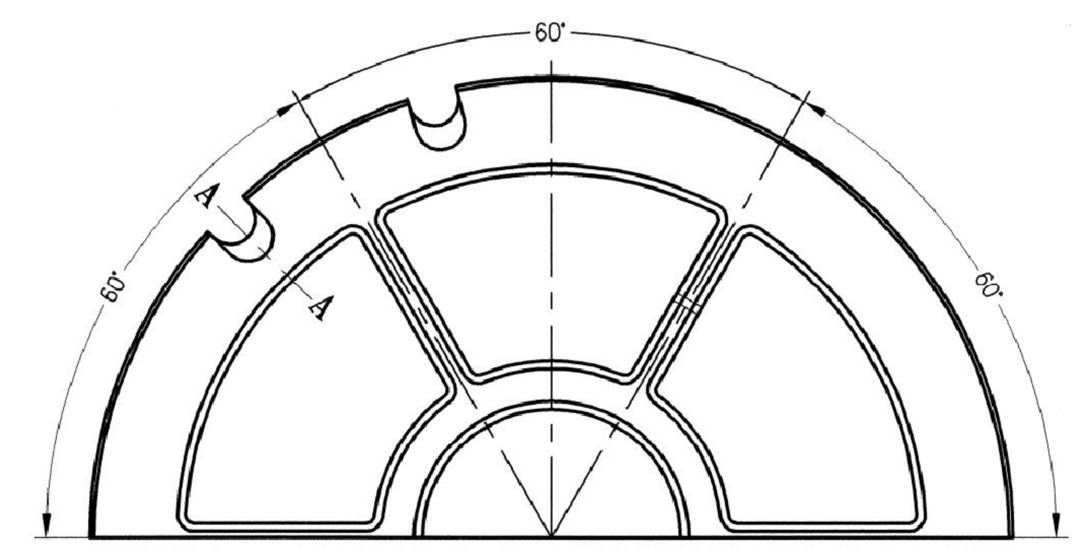


NOTES:

SHADED PORTION = LOW

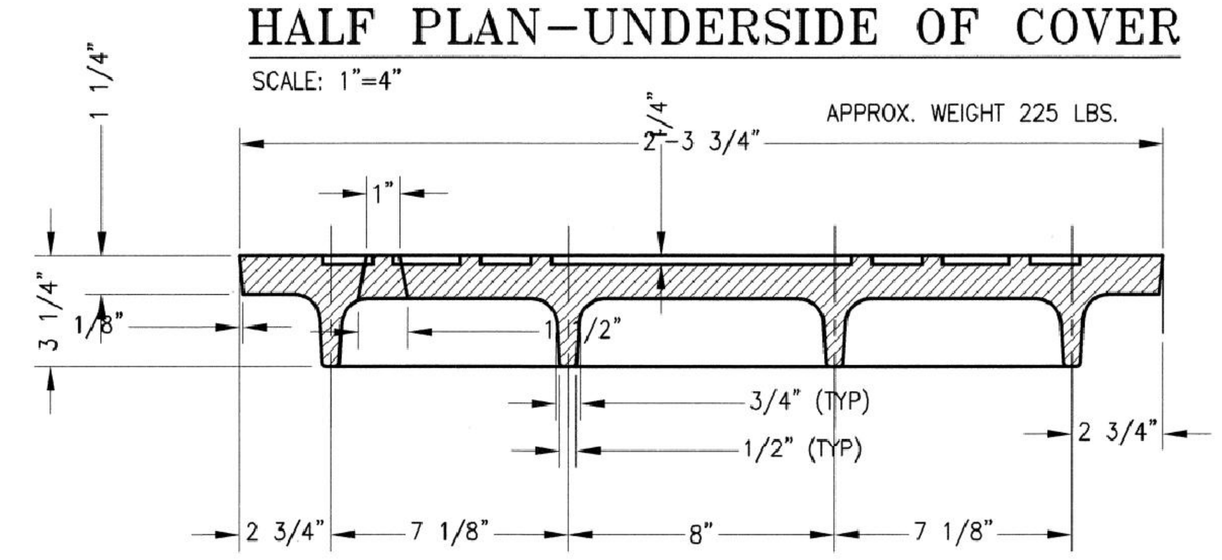
PLAIN PORTION = HIGH

HALF PLAN OF COVER
SCALE: 1"=4"



HALF PLAN–UNDERSIDE OF COVER
SCALE: 1"=4"

APPROX. WEIGHT 225 LBS.



SECTION OF COVER
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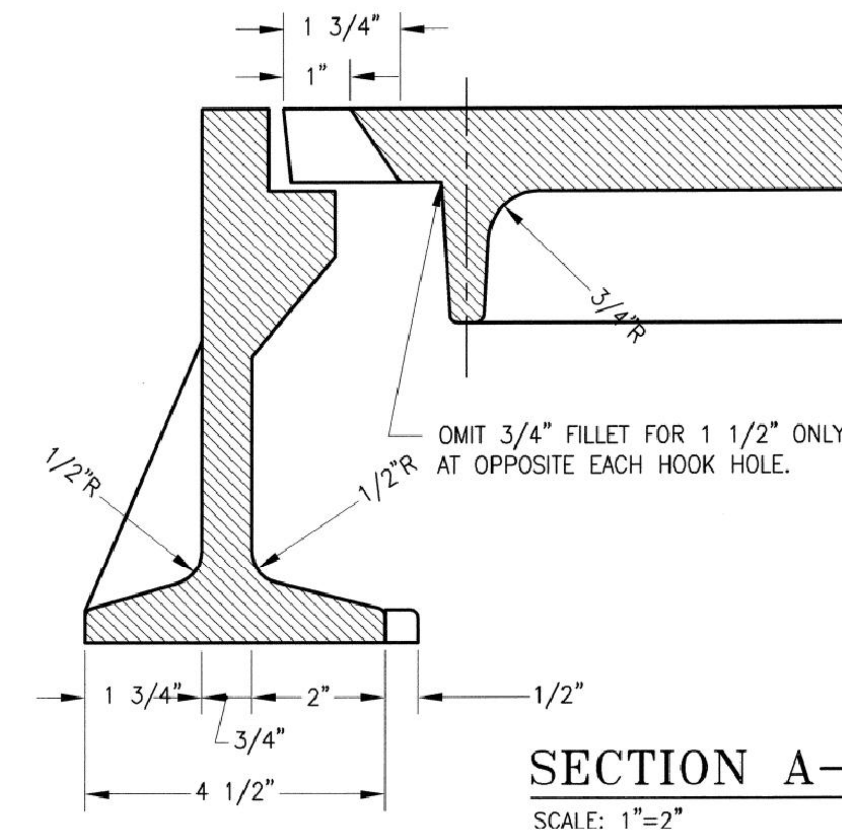

SECTION A–A
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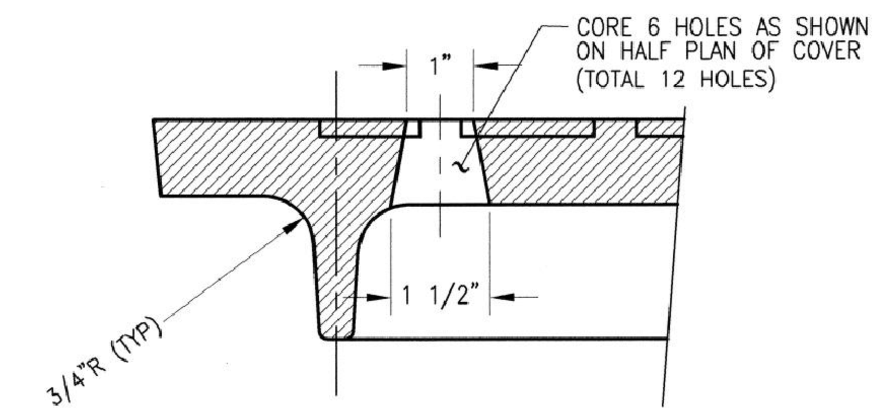
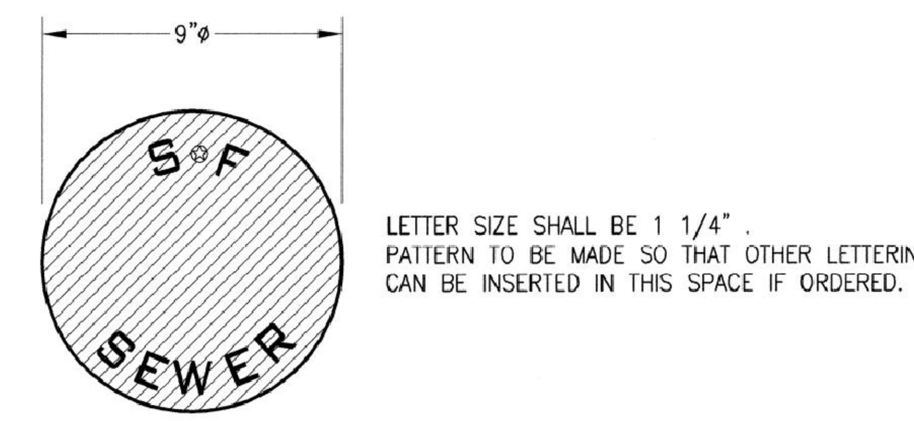


SECTION B–B
SCALE: 1"=2"



LETTER SIZE SHALL BE 1 1/4". PATTERN TO BE MADE SO THAT OTHER LETTERING CAN BE INSERTED IN THIS SPACE IF ORDERED.

DETAIL "A"
SCALE: 1"=2"

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PLANS APPROVAL DATE: APRIL 30, 2007
4/30/07 SECTION MANAGER
4/30/07 DEPUTY BUREAU MANAGER
BUREAU MANAGER

STANDARD PLAN
HYDRAULICS
STANDARD 26" MANHOLE FRAME & COVER

OLD FILE NO. A-10,634
FILE NO. 87,190
REV. NO.

Xrefs: V:\0966J Standard Plans & Specs Update\2_Plans\Title_Block\BOE STD Title Block.dwg
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Plot Time: Fri, 27 Apr 2007 – 6:42pm

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Approved: BS
Job No: 20090086

Drawing Number: C7.05

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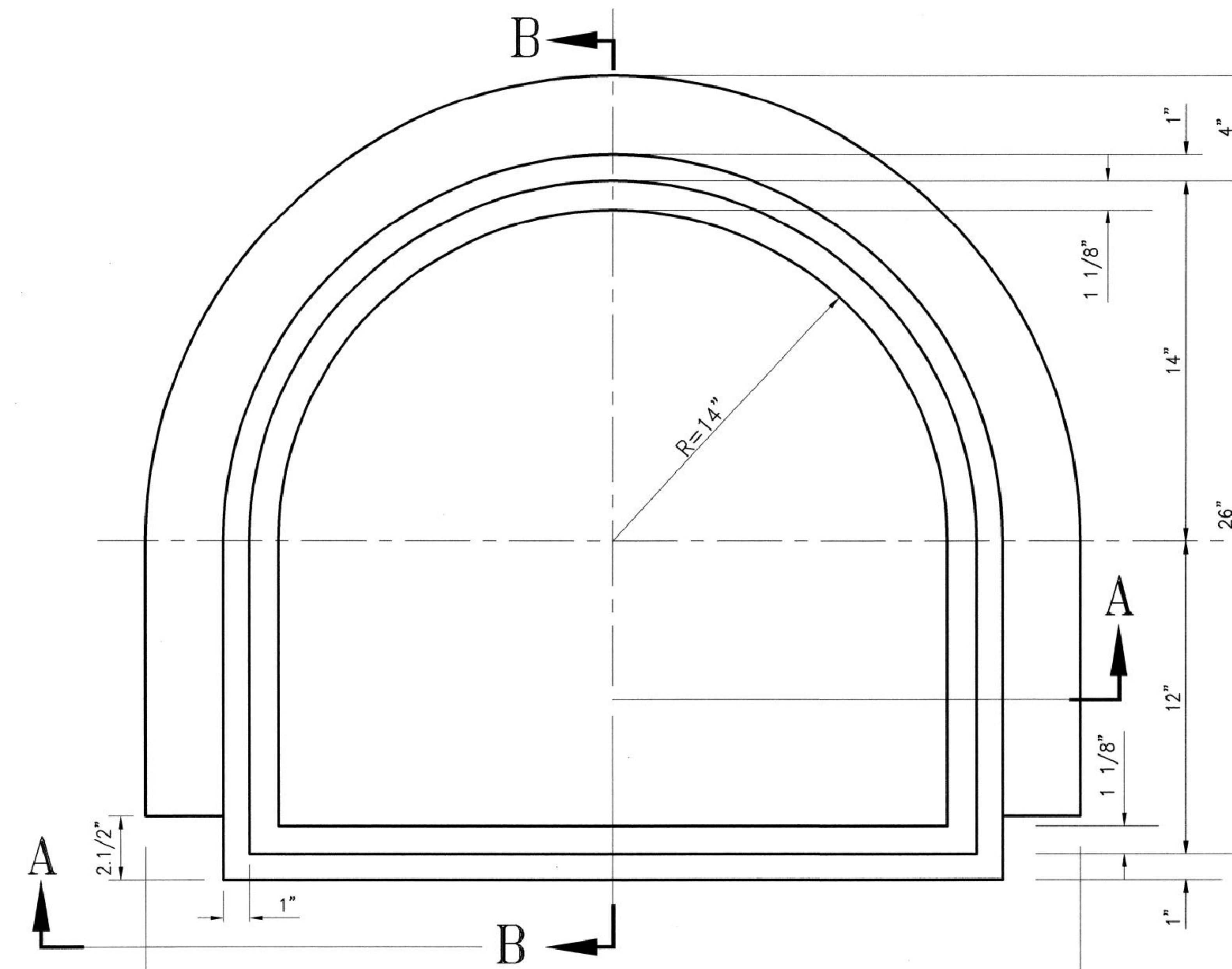
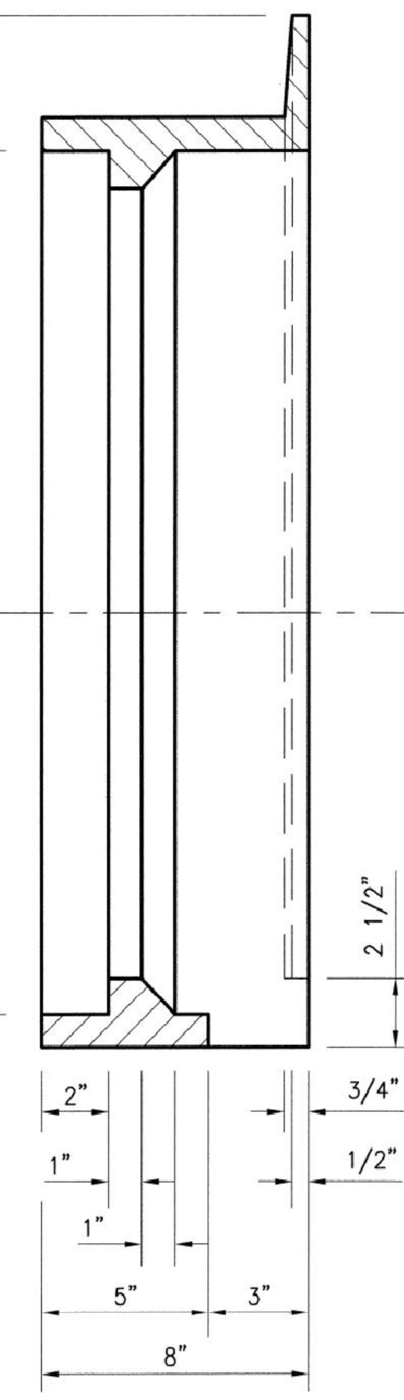
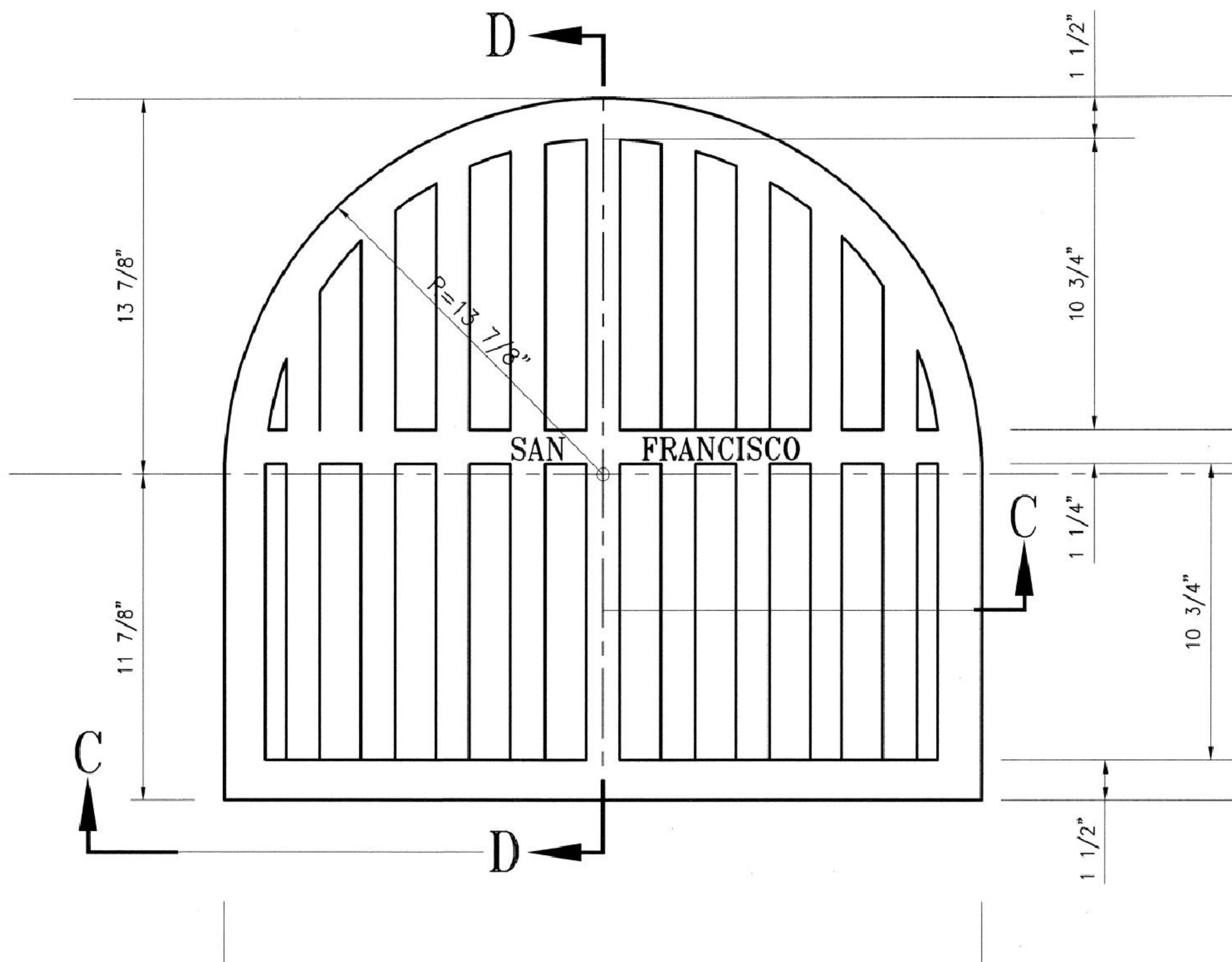


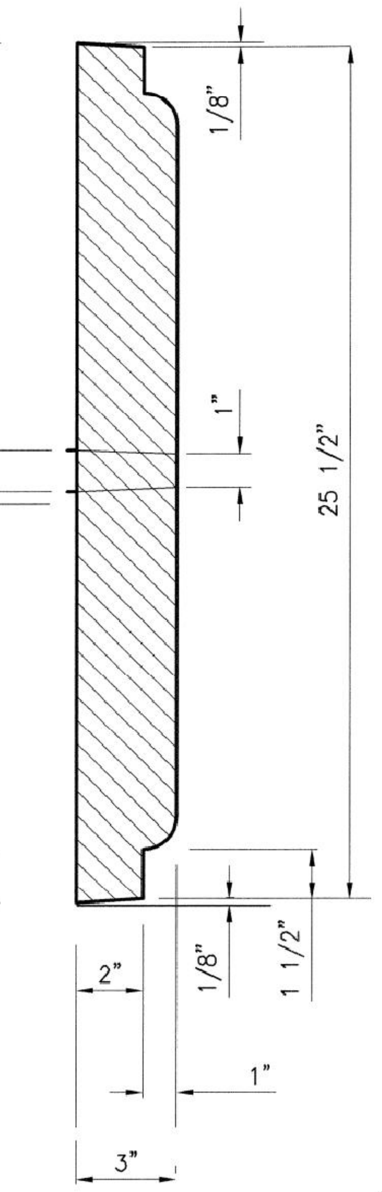
PLAN-CAST IRON FRAME



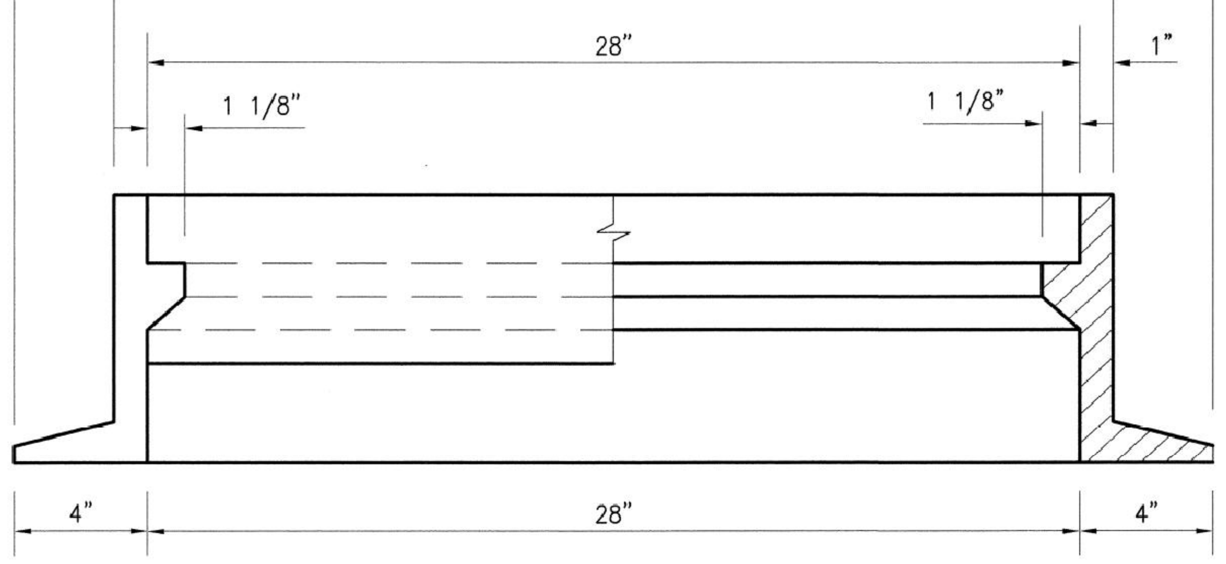
SECTION "B-B"



PLAN-CAST IRON GRATING.

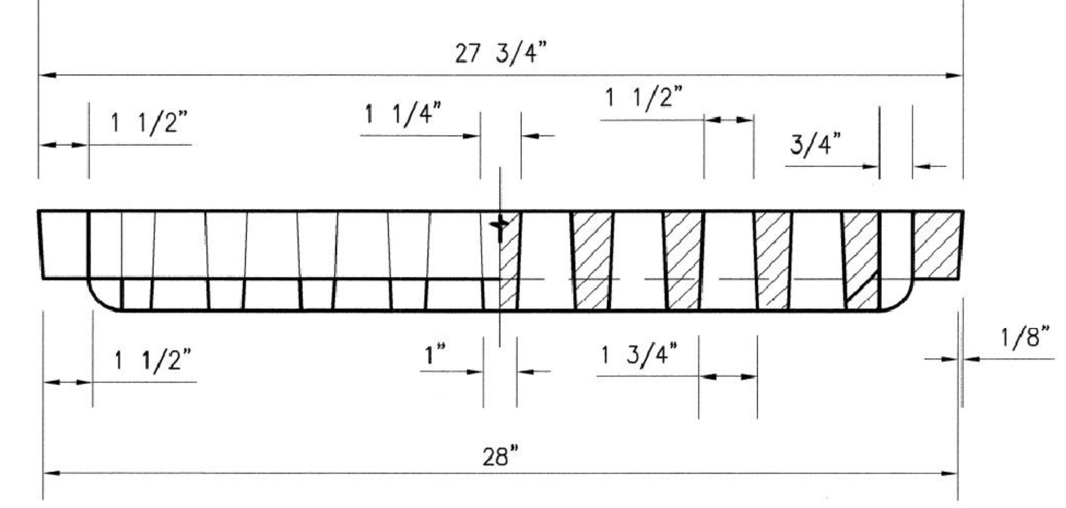


SECTION "D-D"



SECTION "A-A"

FINISH: GRIND HIGH SPOTS FROM CANTACT SURFACES TO OBTAIN UNIFORM BEARING OF GRATING ON FRAME.



SECTION "C-C"

NOTES:

1. COMPUTED WEIGHT OF FRAME-262 POUNDS. COMPUTED WEIGHT OF GRATING-242 POUNDS.
2. THE NAME OF THE FOUNDRY, THE YEAR OF MANUFACTURE & THE PATTERN NUMBER, SHALL BE CAST ON THE UNDERSIDE OF EACH CASTING IN 3/4" LETTERS, RAISED 1/8".
3. CAST IRON SHALL BE IN ACCORDANCE WITH THE CURRENT A.S.T.M. STANDARD SPEC. FOR GRAY CASTING (CL. 30), DESIGNATION A-48.
4. THE WORD "SAN FRANCISCO" SHALL BE CAST, AS INDICATED, ON THE TOP OF THE GRATING IN 3/4" LETTERS RAISED 1/8".

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NO.	DATE	DESCRIPTION	BY	APP.

TABLE OF REVISIONS
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION

REFERENCE INFORMATION & FILE NO. OF SURVEYS

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

	DATE:
REVIEWED: ID	12/2006
DRAWN: PS	07/2003
CHECKED: KS	12/2006

PLANS APPROVAL DATE: APRIL 30, 2007
4/30/07 SECTION MANAGER
4/30/07 DEPUTY BUREAU MANAGER
BUREAU MANAGER

STANDARD PLAN
HYDRAULICS
CAST IRON FRAME AND GRATING FOR CATCH BASIN TYPE A

OLD FILE NO. LL-360 CH 4
FILE NO. 87,193
REV. NO.

BKF ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.06

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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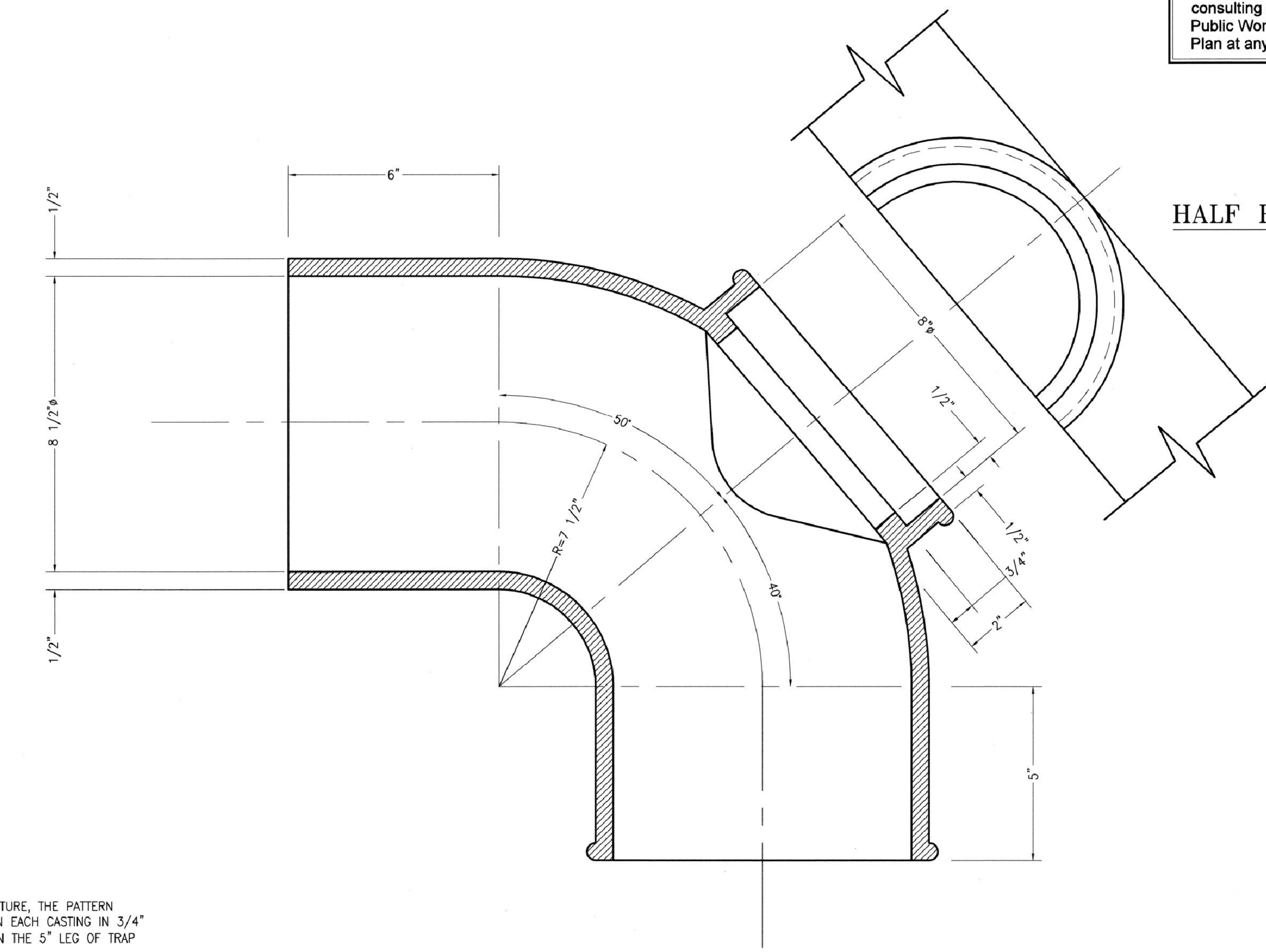

NOTES:

1. RADIUS OF BEADS 1/4".
2. COMPUTED WEIGHT OF TRAP 89 LBS.
3. THE NAME OF THE FOUNDRY, THE YEAR OF MANUFACTURE, THE PATTERN NUMBER AND "CATCH BASIN END" SHALL BE CAST ON EACH CASTING IN 3/4" LETTERS, RAISED 1/8". THIS DATA SHALL BE CAST ON THE 5" LEG OF TRAP DIRECTLY UNDER 8" DIAMETER CLEAN-OUT.
4. CAST IRON SHALL BE IN ACCORDANCE WITH THE CURRENT A.S.T.M. STANDARD SPEC. FOR GRAY-IRON CASTING (CL. 20), DESIGNATION A-48.
5. CAST IRON WATER TRAP SHALL INCLUDE CLEANOUT CAP.

SECTION OF CAST IRON TRAP

SCALE: 1"=2"

NO.	DATE	DESCRIPTION	BY	APP.

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REVIEWED: ID	DATE: 12/2006
DRAWN: JL	DATE: 07/2003
CHECKED: KS	DATE: 12/2006

PLANS APPROVAL DATE: APRIL 30, 2007
4/30/07 SECTION MANAGER
4/30/07 DEPUTY BUREAU MANAGER
BUREAU MANAGER

STANDARD PLAN
HYDRAULICS
CAST IRON WATER TRAP FOR CATCH BASIN

OLD FILE NO. L-370.1B
FILE NO. 87,194
REV. NO.

BKF ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

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CONSTRUCTION DETAILS
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number: C7.07

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.07)
PLOT TIME: 4-28-2017 4:20 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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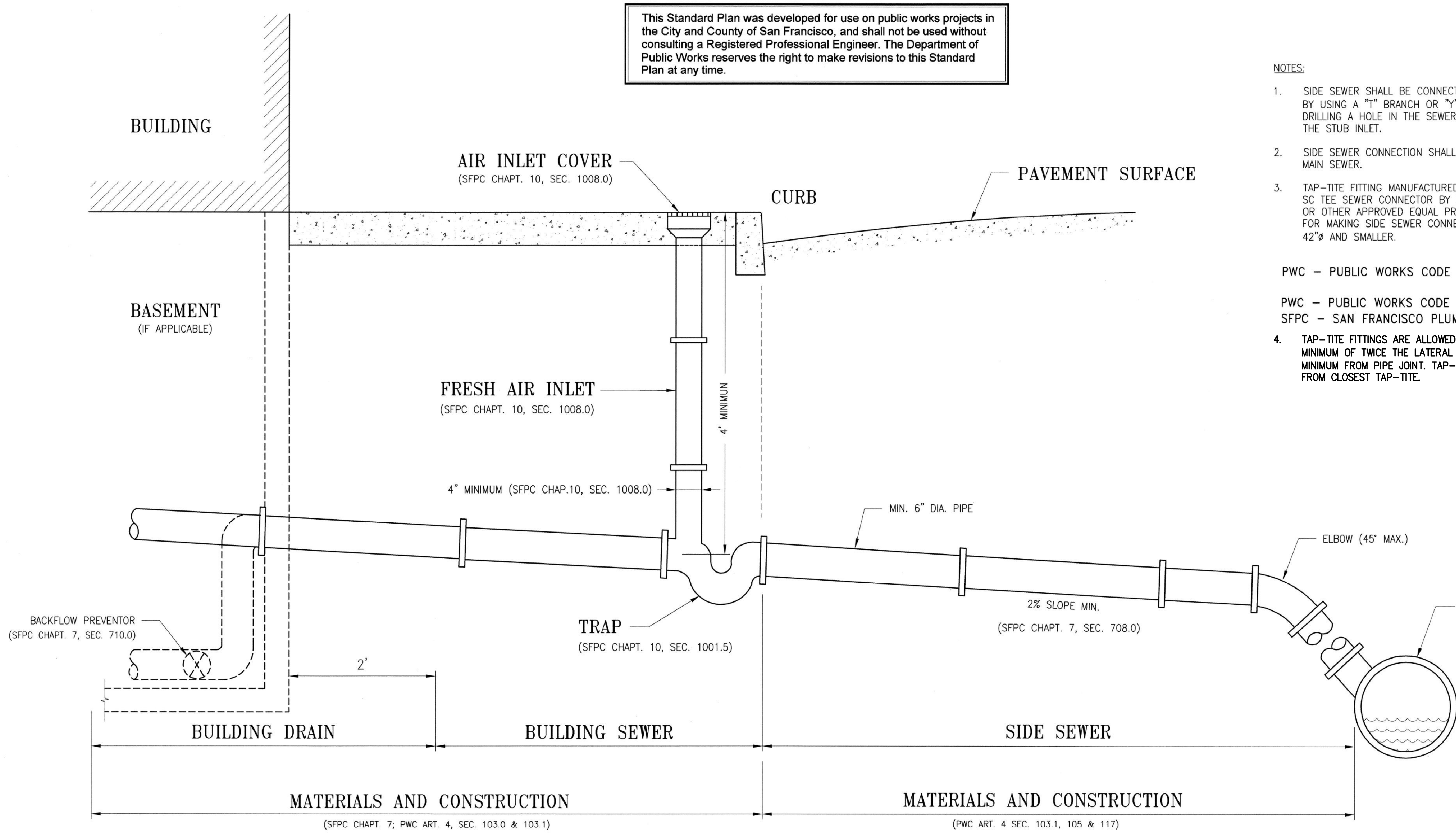

NOTES:

1. SIDE SEWER SHALL BE CONNECTED TO THE MAIN SEWER BY USING A "T" BRANCH OR "Y" BRANCH, OR BY DRILLING A HOLE IN THE SEWER MAIN AND SECURING THE STUB INLET.
2. SIDE SEWER CONNECTION SHALL NOT PROTRUDE IN THE MAIN SEWER.
3. TAP-TITE FITTING MANUFACTURED BY TAP-TITE CO. OR SC TEE SEWER CONNECTOR BY FLEX CONNECTIONS, INC. OR OTHER APPROVED EQUAL PRODUCT CAN BE USED FOR MAKING SIDE SEWER CONNECTION TO MAIN SEWER 42"ø AND SMALLER.

PWC - PUBLIC WORKS CODE (2002 ED.)

PWC - PUBLIC WORKS CODE (2002 ED.)
SFPC - SAN FRANCISCO PLUMBING CODE (2001 ED.)

4. **TAP-TITE FITTINGS ARE ALLOWED WHEN THE SEWER IS A MINIMUM OF TWICE THE LATERAL SIZE. TAP-TITE MUST BE 24" MINIMUM FROM PIPE JOINT. TAP-TITE MUST BE 24" MINIMUM FROM CLOSEST TAP-TITE.**

NO.	DATE	DESCRIPTION	BY	APP.

TABLE OF REVISIONS
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4/30/07 DEPUTY BUREAU MANAGER
BUREAU MANAGER

STANDARD PLAN
HYDRAULICS
TYPICAL INSTALLATION OF BUILDING SEWER AND SIDE SEWER

OLD FILE NO. 44,337
FILE NO. 87,196
REV. NO.

Drawing Path: V:\0966J Standard Plans & Specs Update\2_Plans\FINAL\HYD\SP-87196.dwg, Login: corontos
Plot Time: Fri, 27 Apr 2007 - 8:03pm
Measurement Units are English
Dimension Scale: 40
Model Units: Feet
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PLOT TIME: 4-28-2017 4:20 PM PLOTTED BY: bum

255 SHORELINE DR
SUITE 200
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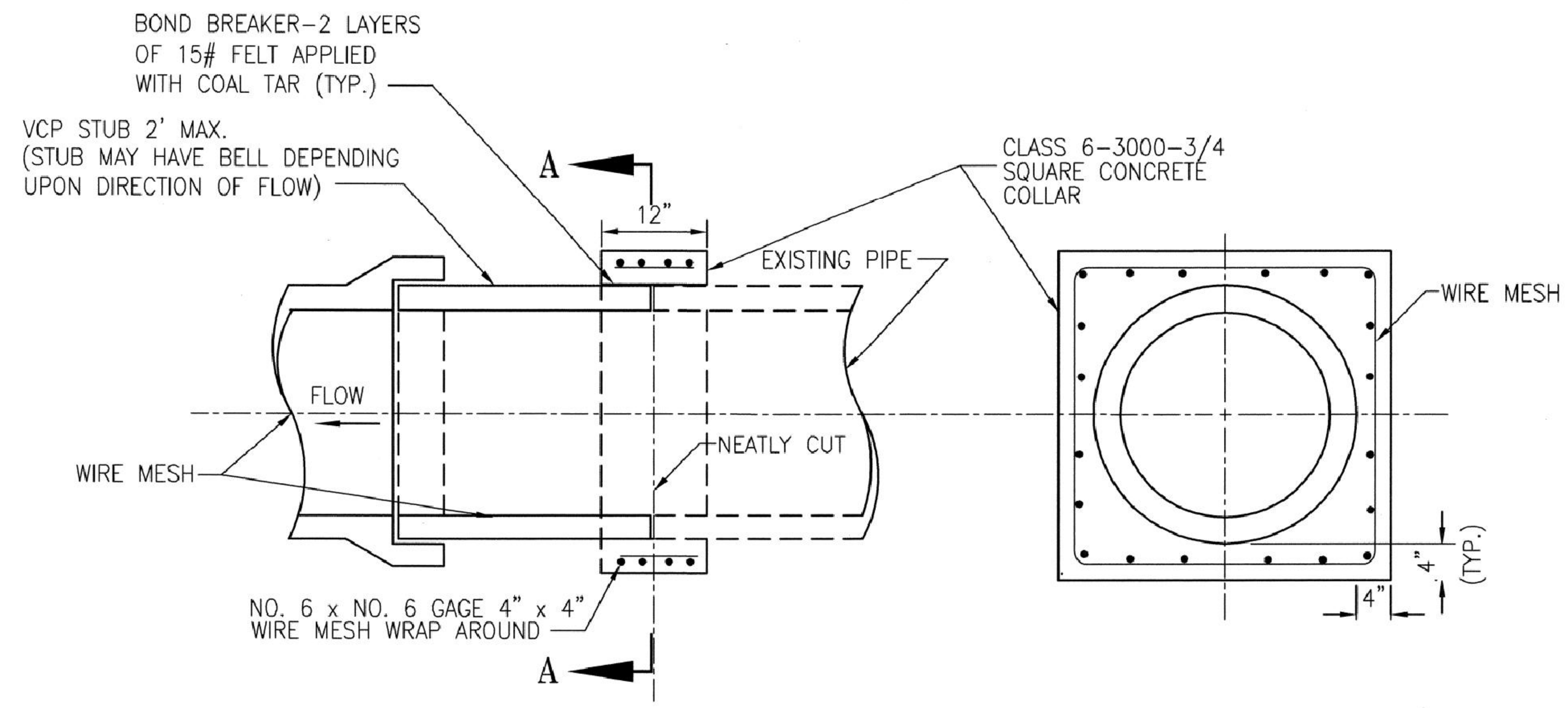
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

Date: 05/01/17	No.	Revisions
Scale: NONE		
Design: TH		
Drawn: NL		
Approved: BS		
Job No: 20090086		

Drawing Number:
C7.08

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

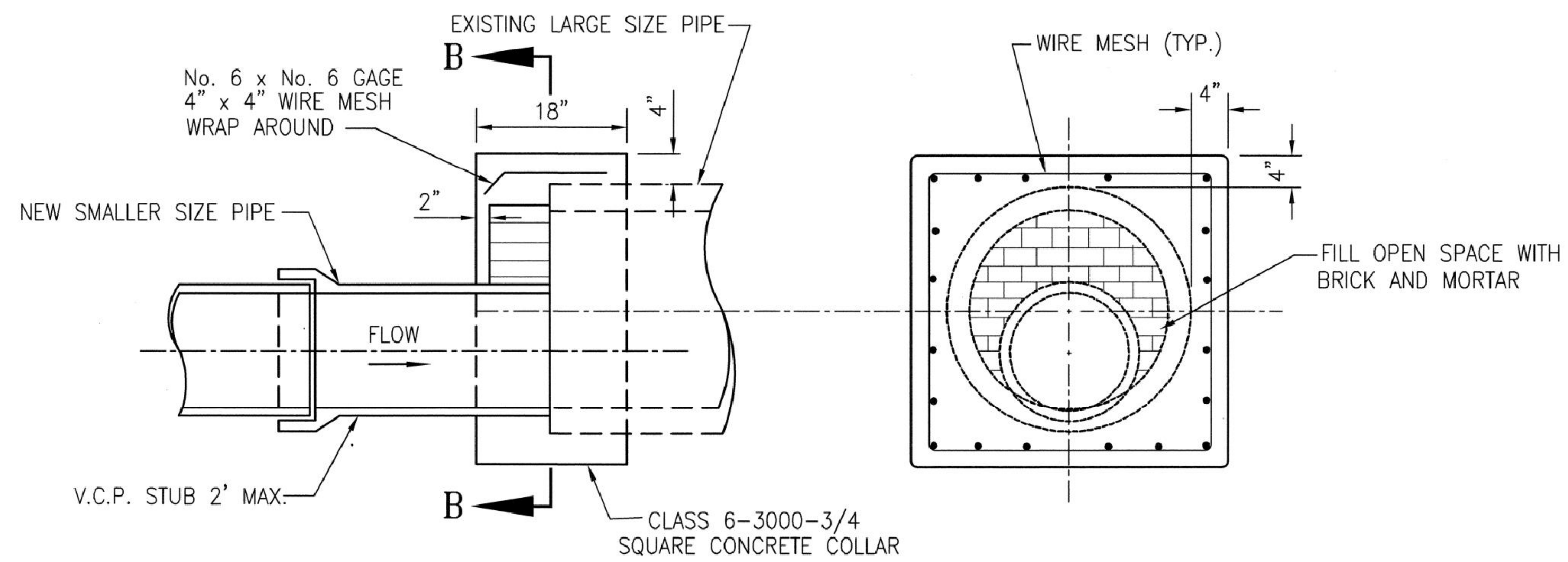


DETAIL "A"

SECTION "A"-"A"

CONNECTION TO SIMILAR SIZE SEWERS

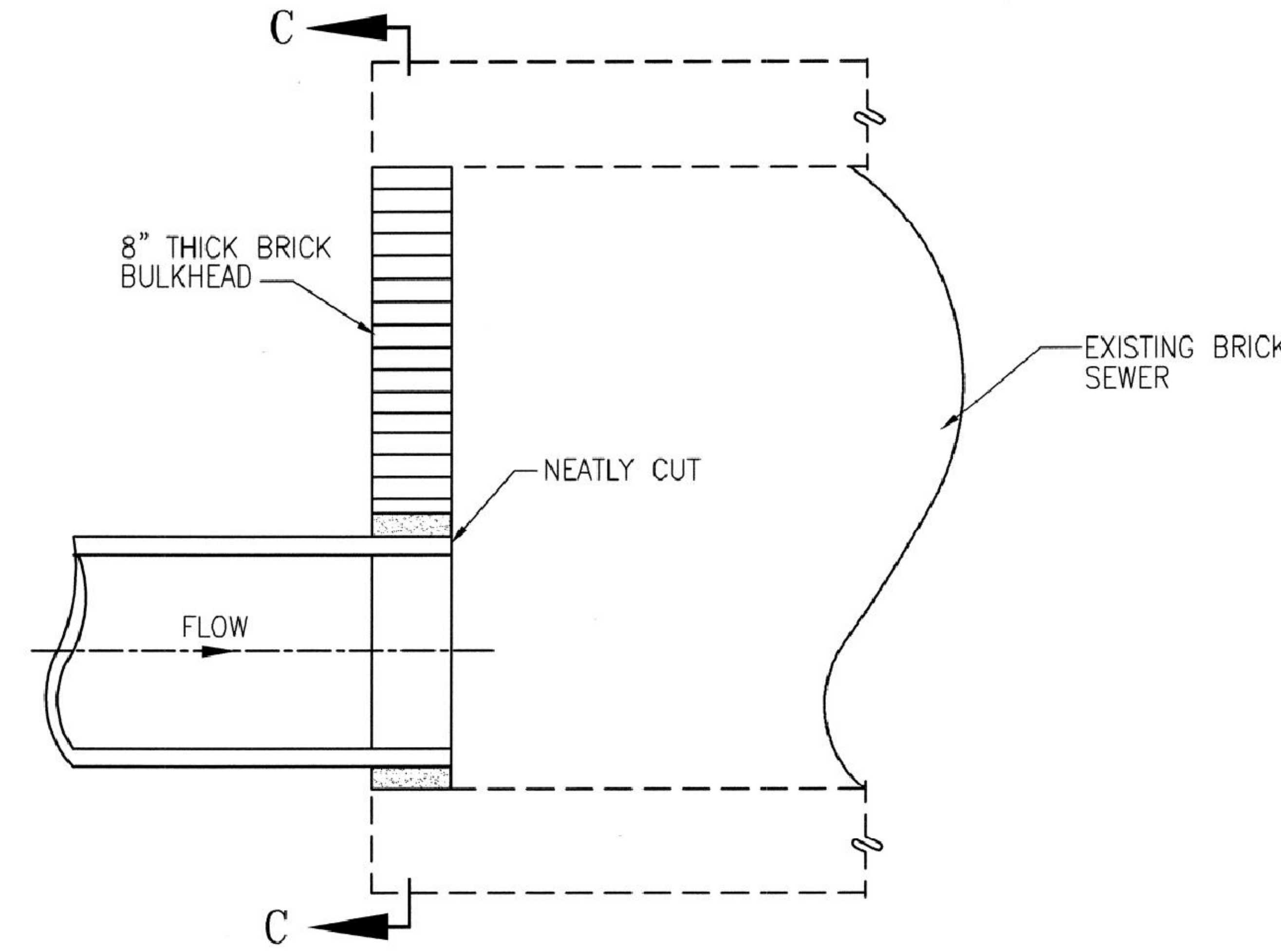
NO SCALE

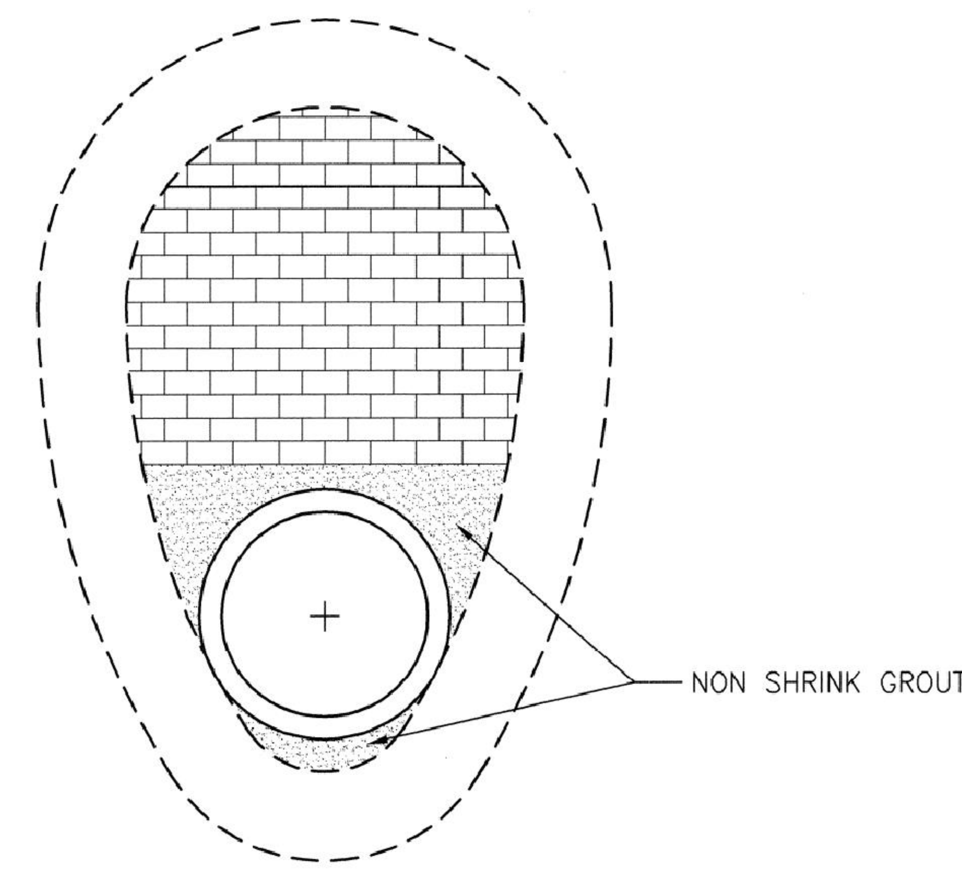


SECTION "B"-"B"

CONNECTION OF DIFERENT SIZE SEWERS

NO SCALE





SECTION "C"-"C"

CONNECTION TO BRICK SEWER

NO SCALE

NO.	DATE	DESCRIPTION	BY	APP.

TABLE OF REVISIONS
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4/30/07 DEPUTY BUREAU MANAGER
BUREAU MANAGER

STANDARD PLAN
HYDRAULICS
SEWER CONNECTION DETAILS

OLD FILE NO. 44,851
FILE NO. 87,197
REV. NO.

255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)
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PARKMERCED
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CONSTRUCTION DETAILS

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

Date: 05/01/17
Scale: NONE
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Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.09

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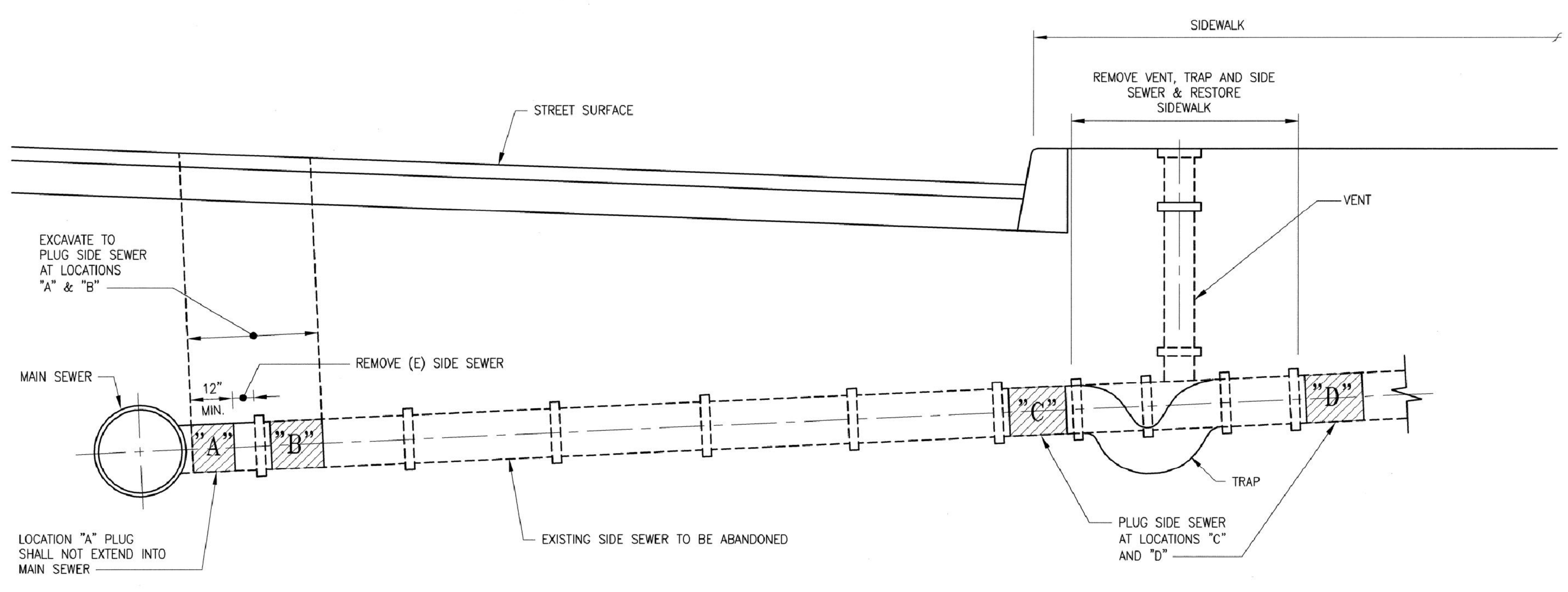

NOTES

1. ALL PLUGS SHALL BE CONCRETE OR BRICK AND MORTAR.
2. SIDE SEWERS LARGER THAN 6" IN DIAMETER SHALL BE PLUGGED AND FILLED WITH EITHER SLURRY AS SPECIFIED IN SECTION 302 OF THE STANDARD SPECIFICATIONS OR PER CONTRACT DOCUMENTS.

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4/30/07 SECTION MANAGER
4/30/07 DEPUTY BUREAU MANAGER
BUREAU MANAGER

STANDARD PLAN
HYDRAULICS
ABANDONMENT OF EXISTING SIDE SEWER

OLD FILE NO. L-38,782 CH 1
FILE NO. 87,198
REV. NO.

BKF ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

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Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.10

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.10)
PLOT TIME: 4-28-2017 4:20 PM PLOTTED BY: bum

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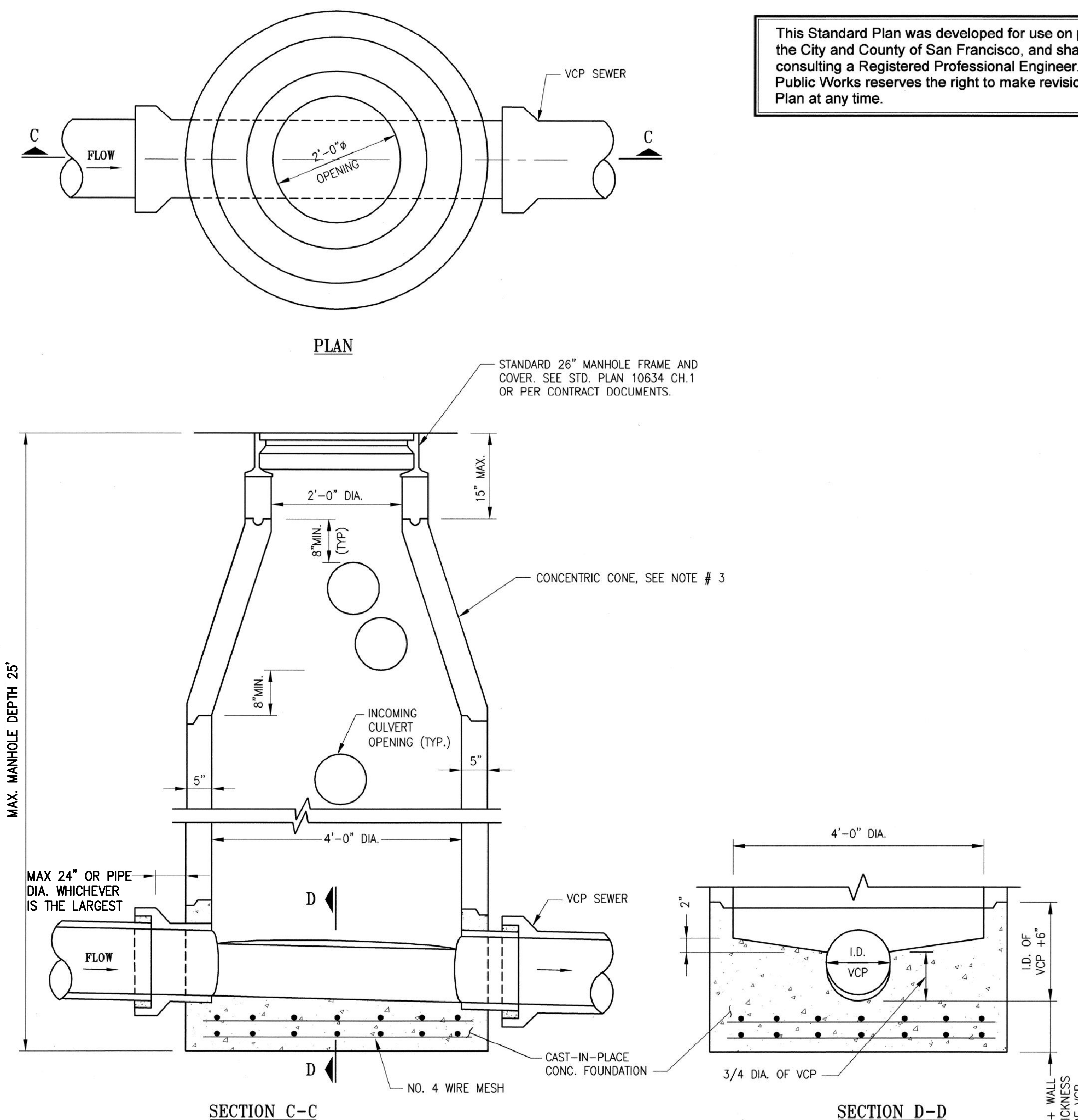
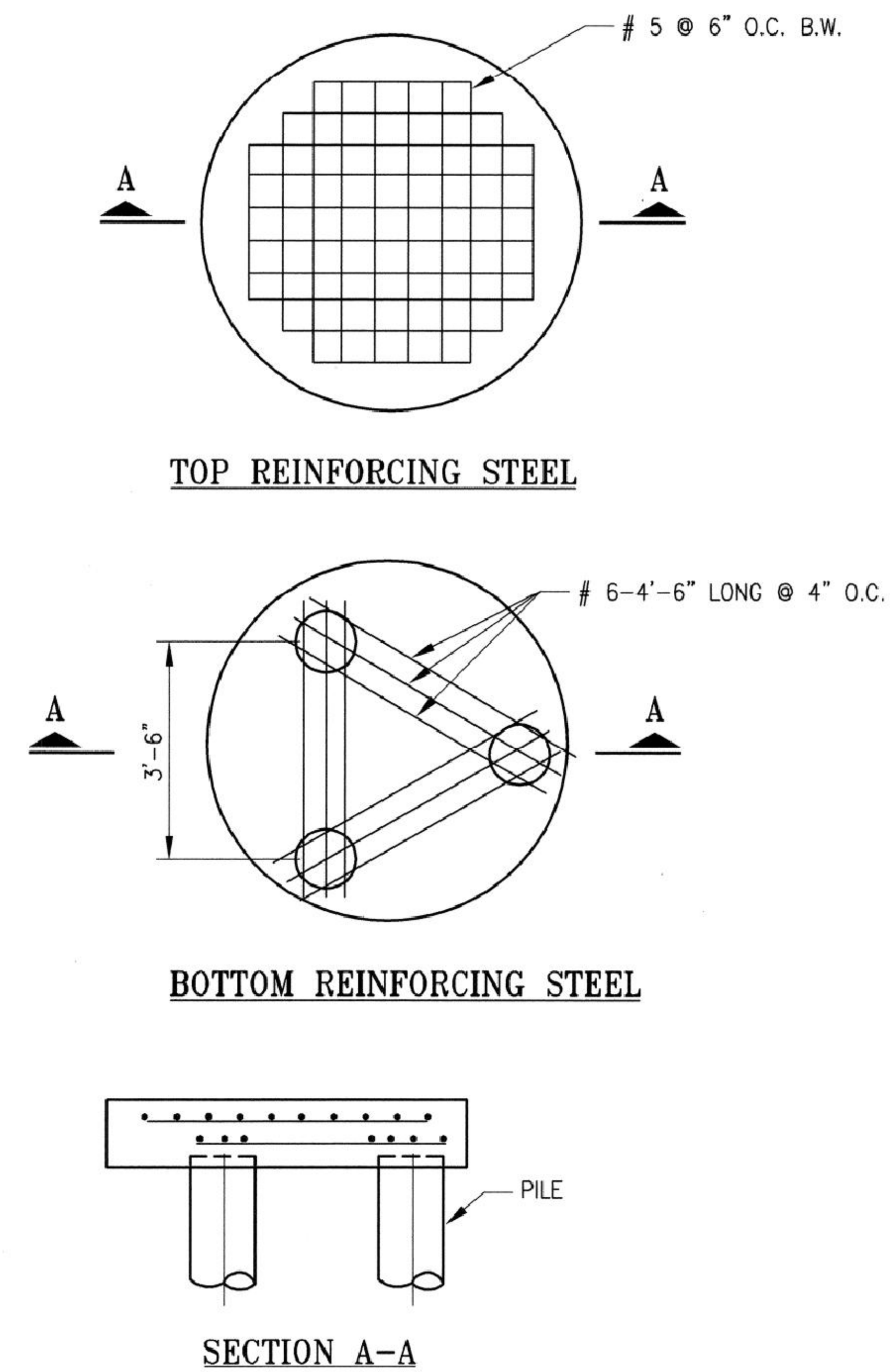


MANHOLE PLAN AND DETAILS

This Standard Plan was developed for use on public works projects in the City and County of San Francisco, and shall not be used without consulting a Registered Professional Engineer. The Department of Public Works reserves the right to make revisions to this Standard Plan at any time.

NOTES

1. MANHOLE FRAME AND ALL JOINTS SHALL BE SET IN CLASS "C" MORTAR.
2. ALL PRECAST COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
3. VERTICAL WALL OF CONCENTRIC CONE SHALL BE ON UPSTREAM SIDE OF MANHOLE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. CAST-IN-PLACE CONCRETE FOUNDATION SHALL BE CLASS 6-3000-3/4.
5. CULVERT OPENINGS SHALL BE A MINIMUM OF 8" FROM PRECAST SECTION JOINTS.
6. CONTRACTOR SHALL MINIMIZE NUMBER OF SECTION RINGS BY UTILIZING LARGEST SECTIONS AVAILABLE.
7. **STEEL REINFORCEMENT IN CONCRETE FOUNDATION IS REQUIRED.**
8. SIDE SEWER CONNECTIONS TO THE MANHOLE SHALL NOT BE HIGHER THAN 12" ABOVE THE INVERT OF THE MANHOLE.
9. CULVERT CONNECTIONS SHALL BE FLUSH WITH INSIDE FACE OF THE MANHOLE WALL.
10. ~~MANHOLE DEPTH SHALL NOT EXCEED 17'.~~



REINFORCED CONCRETE FOUNDATION FOR MANHOLE ON PILES

NO.	DATE	DESCRIPTION	BY	APP.

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DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

REVIEWED: ID	DATE: 12/2006
DRAWN: AM/JL	DATE: 07/2003
CHECKED: KS	DATE: 12/2006

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4/30/07 SECTION MANAGER
4/30/07 DEPUTY BUREAU MANAGER
BUREAU MANAGER

STANDARD PLAN
HYDRAULICS
MODIFIED PRECAST CONCRETE MANHOLE FOR 12" AND 24" DIAMETER SEWERS

OLD FILE NO. 45,560 CH 1
FILE NO. 87,181
REV. NO.

255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)
BKF ENGINEERS / SURVEYORS / PLANNERS

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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS
SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number: C7.11

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.11)
PLOT TIME: 4-28-2017 4:20 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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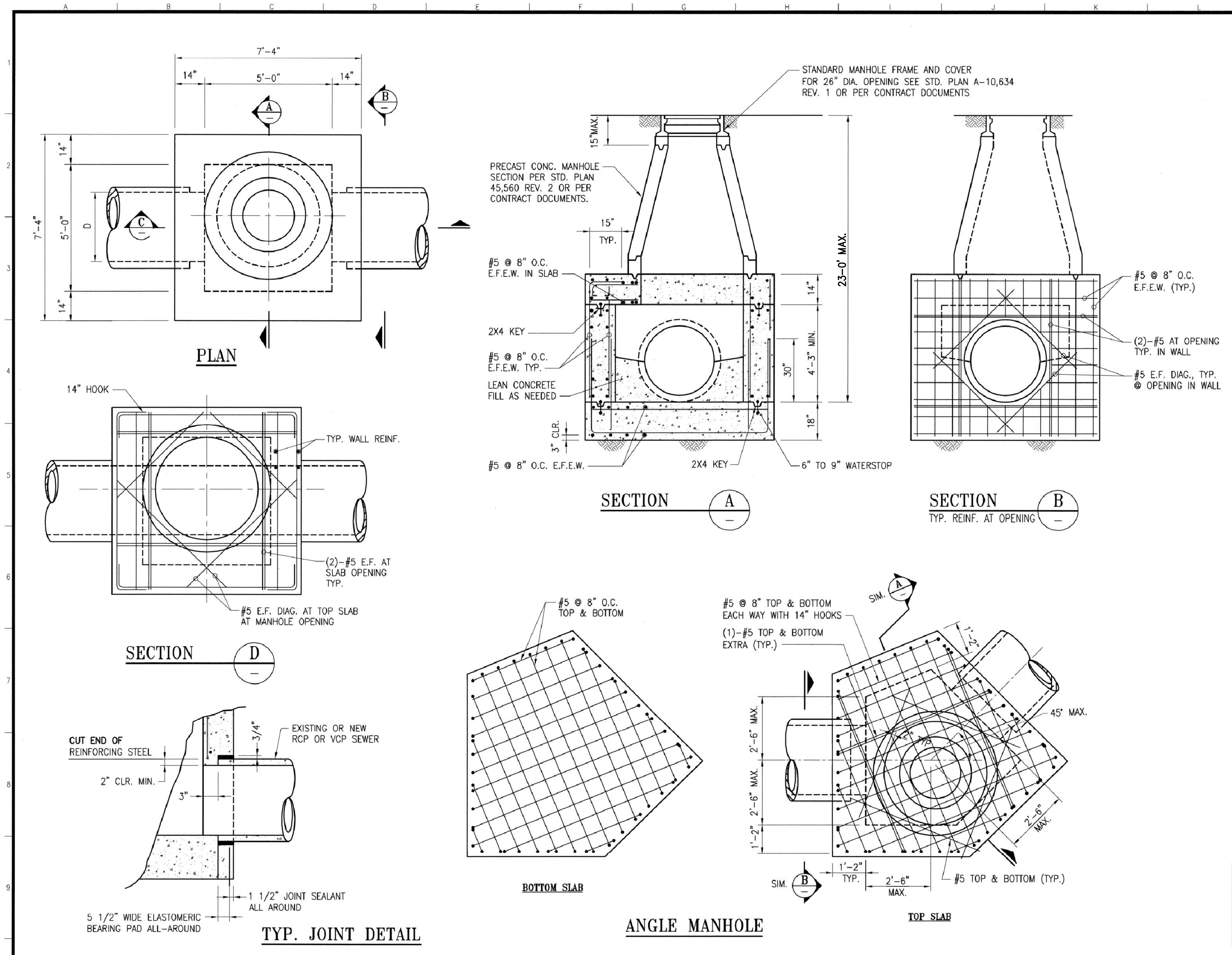

GENERAL NOTES

1. ALL REINFORCING STEEL SHALL BE PLACED AT LEAST 2" FROM FACE OF CONCRETE, EXCEPT WHERE OTHERWISE SHOWN.
2. PROVIDE CONTINUOUS BENDS AT ALL CORNERS AND LAP BARS AS SHOWN.
3. MANHOLE FRAME AND ALL JOINTS SHALL BE SET IN A FLEXIBLE GASKET-JOINT SEALANT (RUB'R-NEK).
4. ALL PRECAST COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
5. CAST-IN-PLACE CONCRETE FOUNDATION SHALL BE CLASS 6-4000-3/4.
6. CULVERT OPENING SHALL BE A MINIMUM OF 8" FROM PRECAST SECTION JOINTS.
7. CONTRACTOR SHALL MINIMIZE THE NUMBER OF SECTION RINGS BY UTILIZING LARGEST SECTIONS AVAILABLE.
8. USE STEEL WALL ANCHOR RING CONNECTION PER CONTRACT DOCUMENTS FOR PIPE 42" AND GREATER.
9. HEIGHT OF CAST-IN-PLACE PORTION OF MANHOLE SHALL BE INCREASED, AS NECESSARY, TO ACCOMODATED EGG-SHAPED AND OTHER MONOLITHIC SEWERS.

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CITY AND COUNTY OF SAN FRANCISCO

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DRAWN: AM	07/2003
CHECKED: KS	12/2006

PLANS APPROVAL DATE: APRIL 30, 2007
4/30/07 SECTION MANAGER
4/30/07 DEPUTY BUREAU MANAGER
BUREAU MANAGER

STANDARD PLAN
HYDRAULICS
MODIFIED CONCRETE MANHOLE FOR PIPE SEWERS 27" TO 48" DIAMETER

OLD FILE NO. 48,057 CH 3
FILE NO. 87,182
REV. NO.

255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)
BKF ENGINEERS / SURVEYORS / PLANNERS

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS
SAN FRANCISCO   SAN FRANCISCO COUNTY   CALIFORNIA

Revisions | No.

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number: C7.12

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.12)
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APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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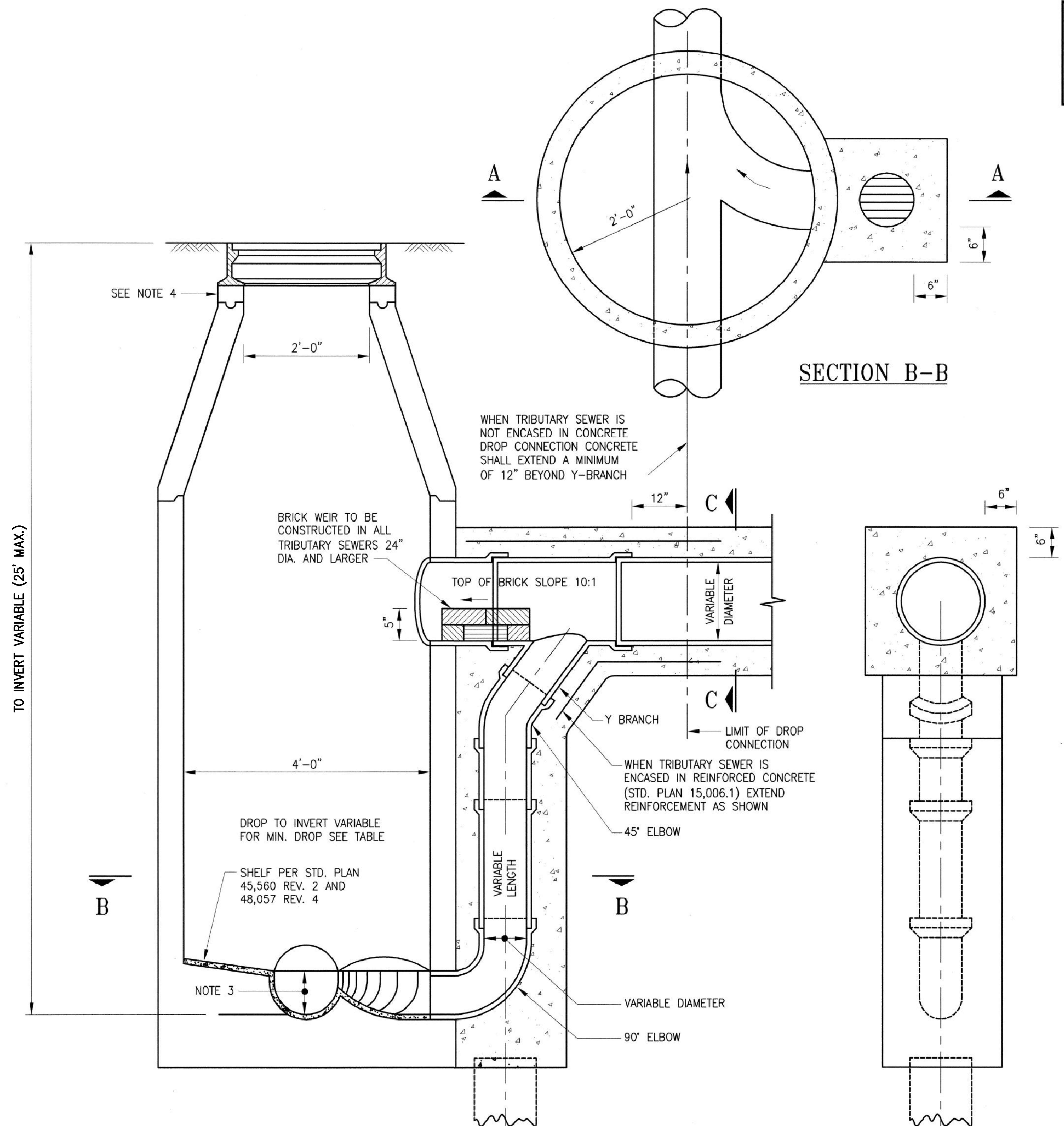

SECTION B-B

SECTION A-A

SECTION C-C

DROP PIPE SHALL BE SUPPORTED ON PILE ONLY WHEN THE TRIBUTARY SEWER PIPE IS ON PILES

TABLE

SIZE OF TRIBUTARY SEWER	SIZE OF DROP PIPE	MINIMUM DROP
8"	6"	3'-3"
12"	6"	3'-3"
15"	8"	3'-9"
18"	8"	3'-9"
21"	10"	4'-6"
24"	10"	4'-6"
27"	12"	5'-0"
30"	12"	5'-0"
33"	12"	5'-0"
36"	12"	5'-0"

GENERAL NOTES

1. FOR DETAILS OF M.H. FRAME & COVER, SEE STANDARD PLAN A-10,634 CH. 1
2. DEPTH OF CHANNEL SHALL BE 3/4 THE DIAMETER OF THE LARGEST PIPE TRIBUTARY TO MANHOLE OR AS SHOWN IN PLANS FOR A PARTICULAR PROJECT. THE MANHOLE FLOOR AND CHANNEL SHELL BE PLASTERED WITH CLASS "C" MORTAR 1/2" THICK
3. WHERE TWO OR MORE DROP INLETS ARE REQUIRED, EACH INLET SHALL BE BUILT AS SHOWN FOR SINGLE DROP INLET IN THE ABOVE SECTIONS
4. FOR DETAILS OF MANHOLE SEE STD. PLANS 45,560 REV. 2 & 48,057 REV. 4 SFPUC/DPW STANDARD SPECIFICATIONS
5. FOR ENCASEMENT AND STEEL DETAILS SEE STANDARD PLAN A-15,006.1
6. ALL CONCRETE SHALL BE CLASS 6-3000-3/4

NO.	DATE	DESCRIPTION	BY	APP.

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CHECKED:	DATE:
KS	12/2006

PLANS APPROVAL DATE: APRIL 30, 2007
4/30/07 SECTION MANAGER
4/30/07 DEPUTY BUREAU MANAGER
BUREAU MANAGER

STANDARD PLAN
HYDRAULICS
MODIFIED DROP MANHOLE FOR V.C.P. SEWERS

OLD FILE NO. LL-266 CH 4
FILE NO. 87,186
REV. NO.

255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)
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CONSTRUCTION DETAILS
SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number: C7.13

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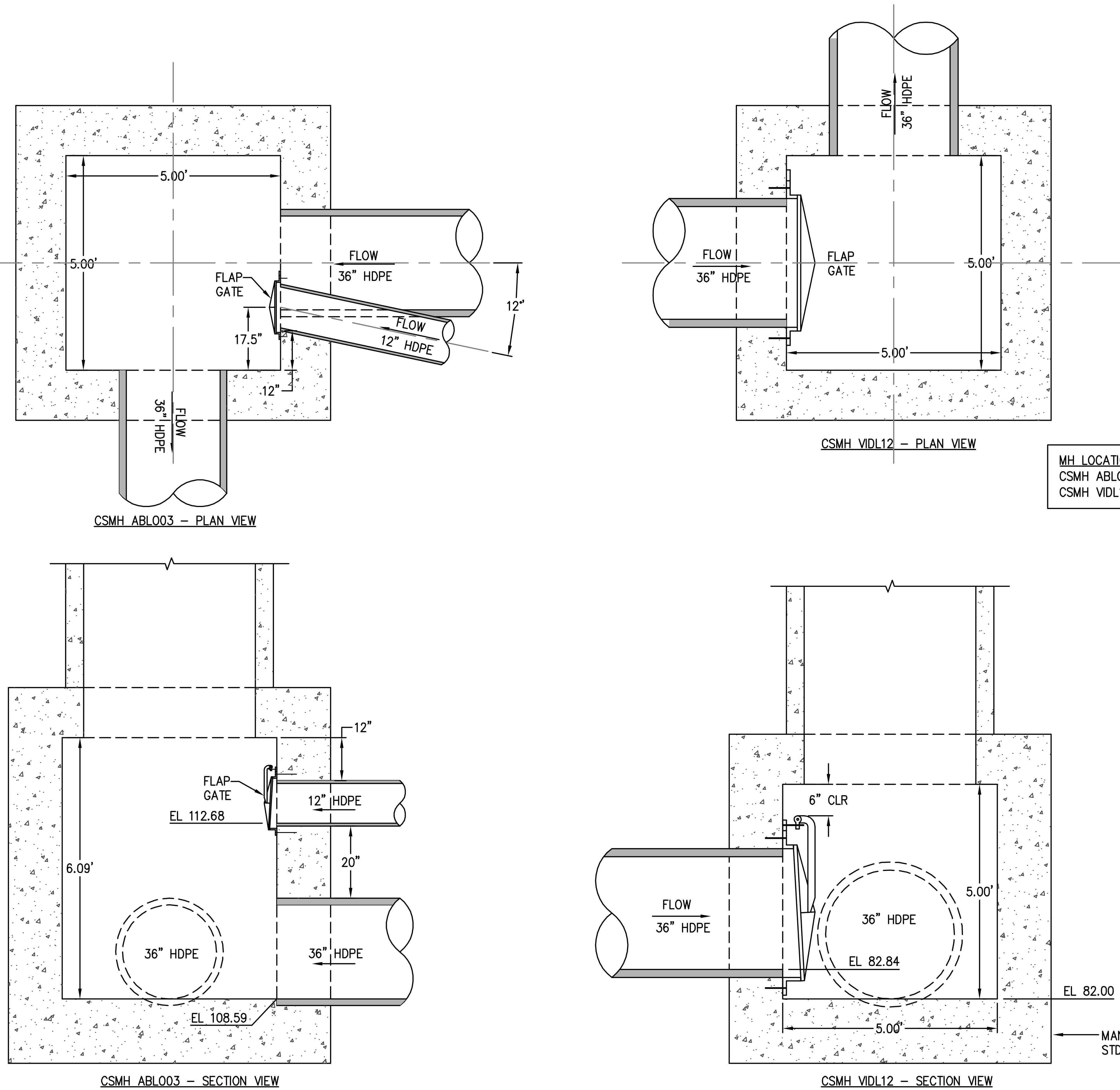
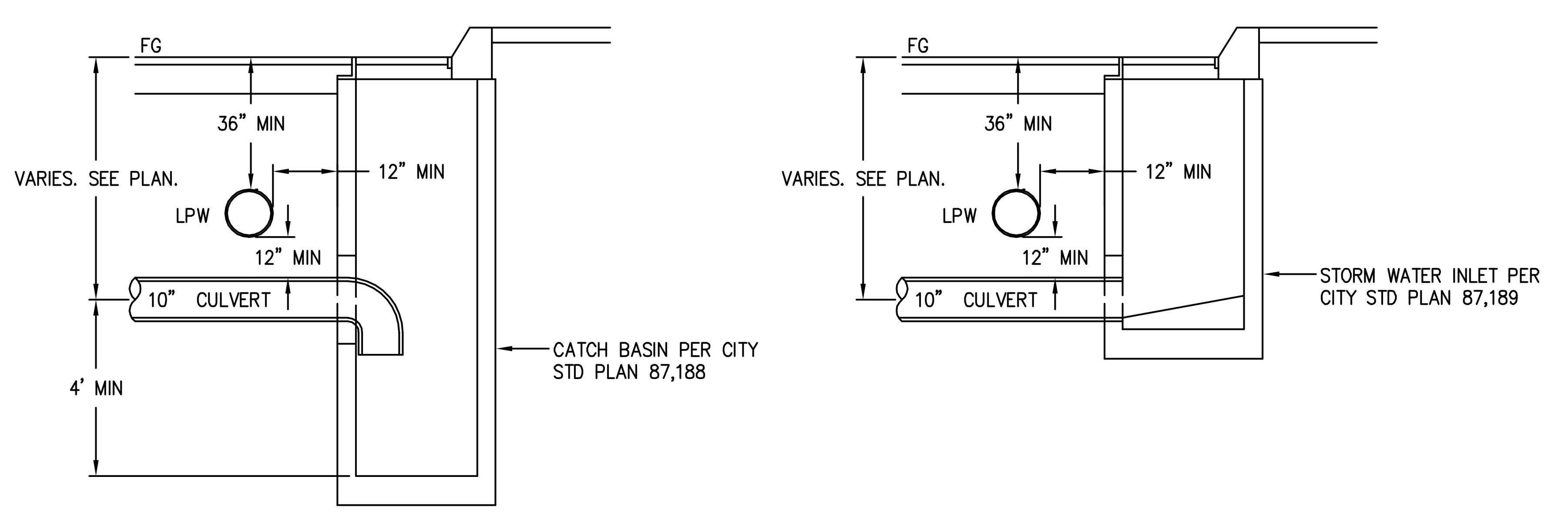


MH LOCATION	PIPE SIZE	OPENING SIZE	'A'
CSMH ABL003	12"	14"	21.00"
CSMH VIDL12	36"	36"	46.00"

HYDRO GATE FLAP GATE (MODEL 50C OR EQUAL).
INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

1 FLAP GATE DETAILS
N.T.S



2 MODIFIED CATCH BASIN AND STORM WATER INLET AT WATER LINE CROSSING
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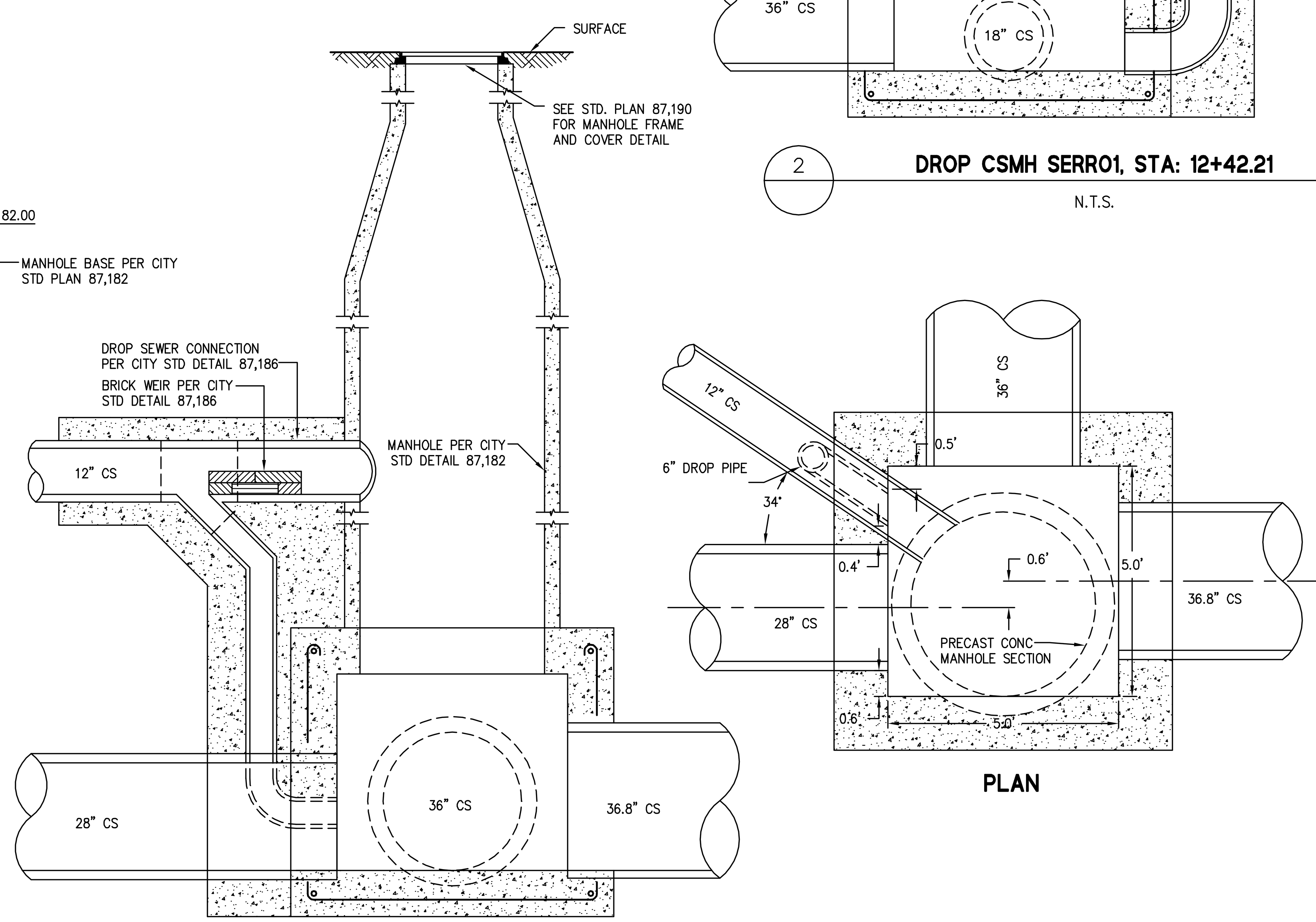

4 DROP CSMH VIDL06, STA: 110+51.29
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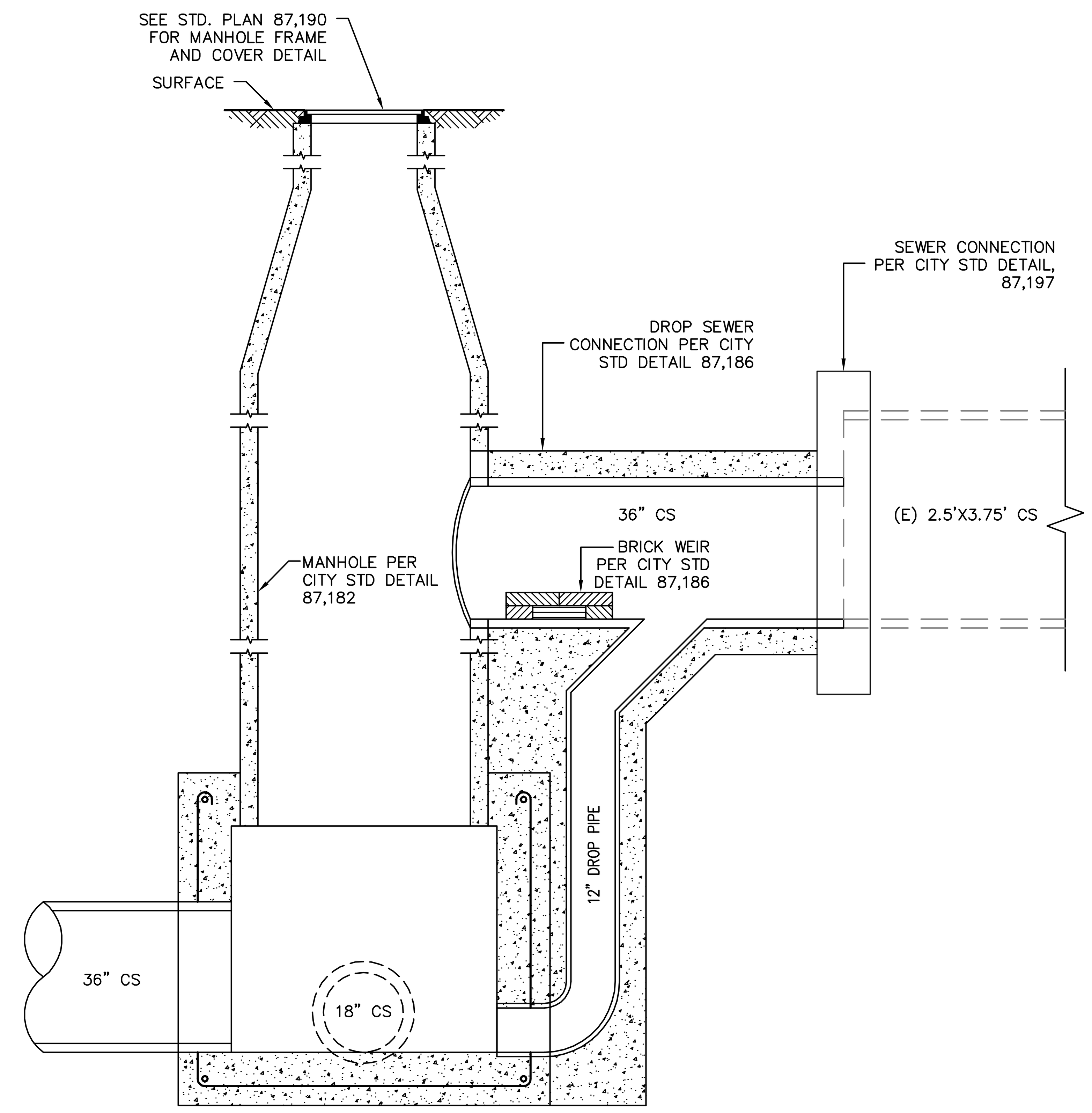

2 DROP CSMH SERR01, STA: 12+42.21
N.T.S.

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CONSTRUCTION DETAILS
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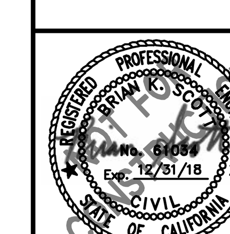

No.	Revisions

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Job No: 20090086

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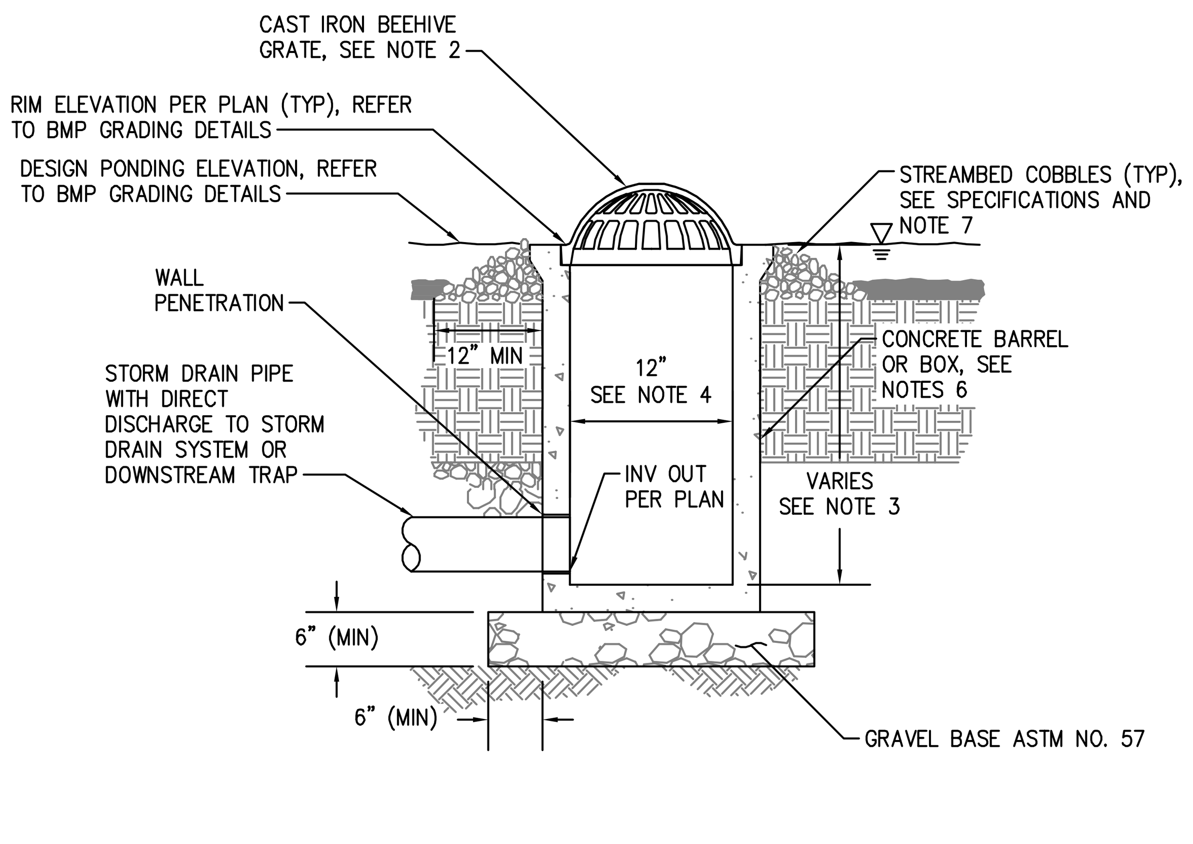
PLOT TIME: 4-28-2017 4:20 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

CONSTRUCTION NOTES:

1. ALL MATERIAL AND WORKMANSHIP FOR OVERFLOW STRUCTURES SHALL CONFORM TO PROJECT SPECIFICATIONS AND APPLICABLE CODES PER SAN FRANCISCO PUBLIC WORKS.
2. SIZE OF GRATE SHALL MATCH SIZE OF RISER SPECIFIED IN PLANS, SHALL BE REMOVABLE TO PROVIDE MAINTENANCE ACCESS, AND SHALL BE BOLTED IN PLACE OR OUTFITTED WITH APPROVED TAMPER-RESISTANT LOCKING MECHANISM. MAXIMUM GRATE OPENING SHALL BE 4 INCHES.
3. IF INTERIOR DEPTH OF OVERFLOW STRUCTURE EXCEEDS 5 FEET, A PERMANENT BOLTED LADDER AND MINIMUM CLEAR SPACE OF 30 IN BY 30 IN SHALL BE PROVIDED FOR MAINTENANCE ACCESS.
4. 12 INCH (MIN) CLEARANCE WITHIN OVERFLOW STRUCTURE SHALL BE PROVIDED FOR MAINTENANCE ACCESS.
5. INSTALL CAST IRON TRAP/HOOD PER MANUFACTURER'S RECOMMENDATIONS.
6. BARREL/BOX AND BASE OF CATCH BASIN MAY BE PRE-CAST WITH REINFORCING STEEL PER MANUFACTURER'S RECOMMENDATIONS, POURED IN PLACE CONCRETE WITHOUT STEEL PER SAN FRANCISCO STANDARD PLANS AND SPECIFICATIONS, OR NYLOPLAST DRAIN BASIN (2812AG OR APPROVED EQUIVALENT).
7. MINIMUM STREAMBED COBBLE DIAMETER SHALL BE LARGER THAN MAXIMUM GRATE OPENING.
8. GROUT ALL PENETRATIONS, CRACKS, SEAMS, AND JOINTS WITH CLASS "C" MORTAR.
9. OVERFLOW PIPES MUST BE LOCATED AT AN ELEVATION HIGHER THAN THE SEWER HYDRAULIC GRADE LINE TO PREVENT BACKFLOW INTO THE BIORETENTION FACILITY.
10. REFER TO SHEET C7.16 FOR TYPICAL BUBBLE-UP SECTIONS.
11. REFER TO SHEET C7.16 FOR LOCATION OF SIDE OPENING.



1 OVERFLOW STRUCTURE, AREA DRAIN
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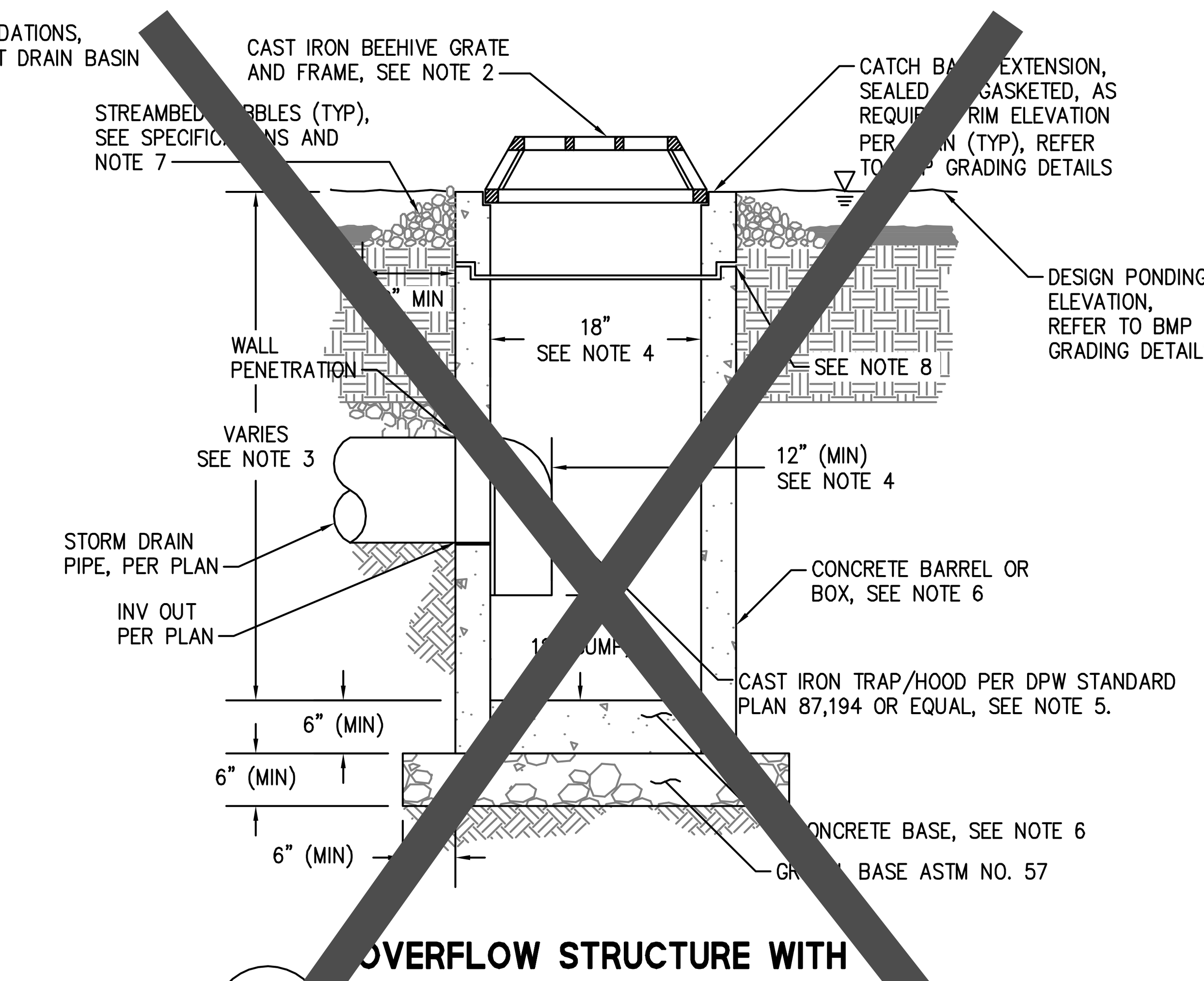
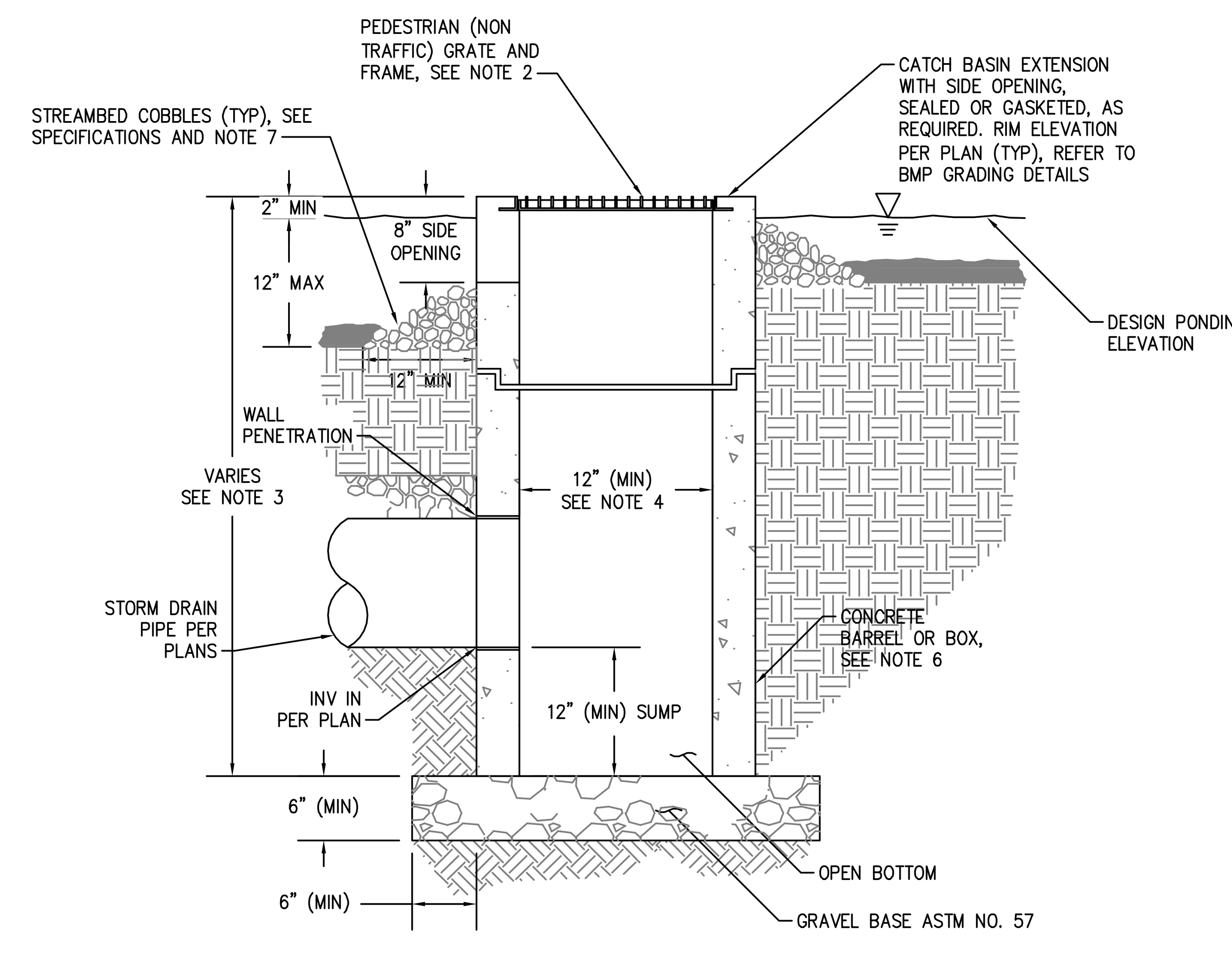
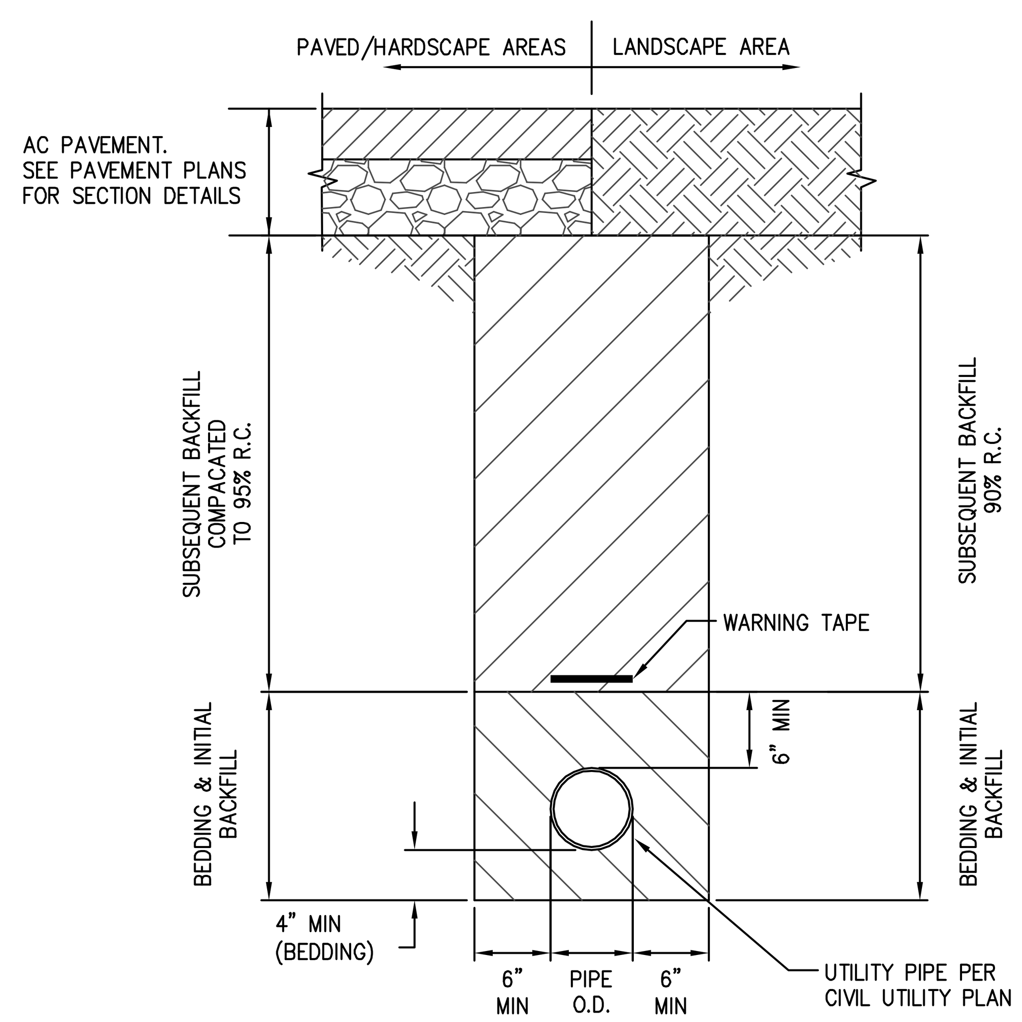


2 OVERFLOW STRUCTURE WITH INTEGRAL SAND TRAP
N.T.S.



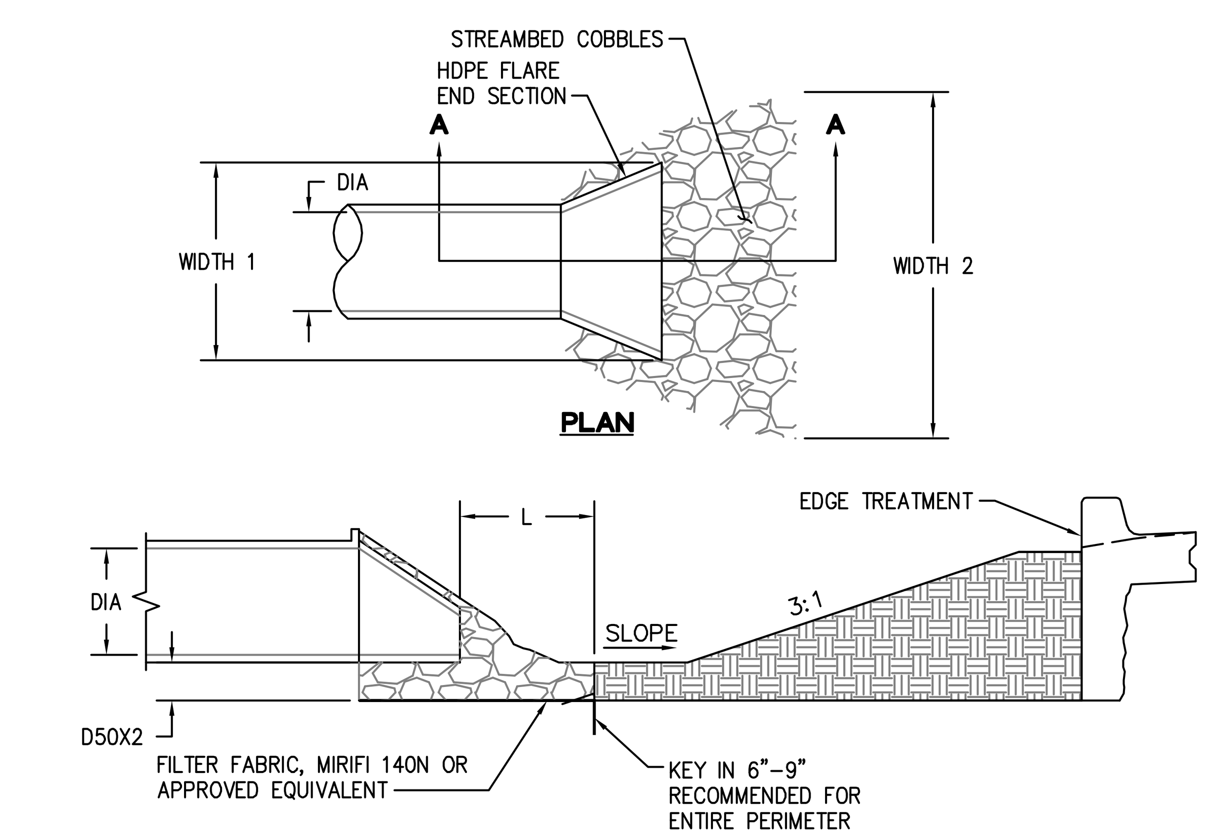
3 BUBBLE-UP STRUCTURE
N.T.S.



4 CS, SS AND SD UTILITY TRENCH
N.T.S.

UTILITY TRENCH NOTES:

1. BEDDING AND INITIAL BACKFILL:
   a. SAND PER THE PROJECT SPECIFICATIONS, COMPACTED TO 95% R.C.
   b. UNDER SATURATED CONDITIONS AND APPROVED BY THE ENGINEER AND GEOTECHNICAL CONSLUTATNT – MANUFACTURED AGGREGATE PER ASTM 2321 CLASS IA (3/8" MAX). COMPACTION SHALL BE BY VIBRATORY EQUIPMENT OR AS APPROVED BY THE GEOTECHNICAL CONSULTANT.
2. SUBSEQUENT BACKFILL:
   a. IMPORTED OR EXCAVATED ONSITE SOIL CONFORMING TO STRUCTURAL FILL PER PROJECT SPECIFICATIONS. REFER TO DETAIL FOR COMPACTION REQUIREMENTS.
   b. COORDINATE SBSS INSTALLATION WHERE REQUIRED.
3. BACKFILL TO BE COMPACTED IN LIFTS NOT EXCEEDING 8-INCHES.
4. ALL UTILITY TRENCHES THAT RUN BELOW PERMEABLE PAVEMENT, BIORETENTION, CURBS, GUTTER AND SIDEWALKS SHALL BE PLUGGED AT LEAST 2-FEET THICK AND 2-FEET BEYOND TRENCH EDGE WITH COMPACTED CLAYEY-SOIL, COMPACTED BENTONITE, A BENTONITE-CEMENT OR SAND-CEMENT SLURRY MIXTURE.



SECTION A-A

PIPE DIAMETER (DIA) (IN)	SLOPE (%)	APRON LENGTH (L) (FT)	WIDTH 1 (FT)	WIDTH 2 (FT)	RIP RAP D50 DIAMETER MIN. (IN)
8	0–5	7	2	5	4

5 STABILIZED OUTFALL
N.T.S.

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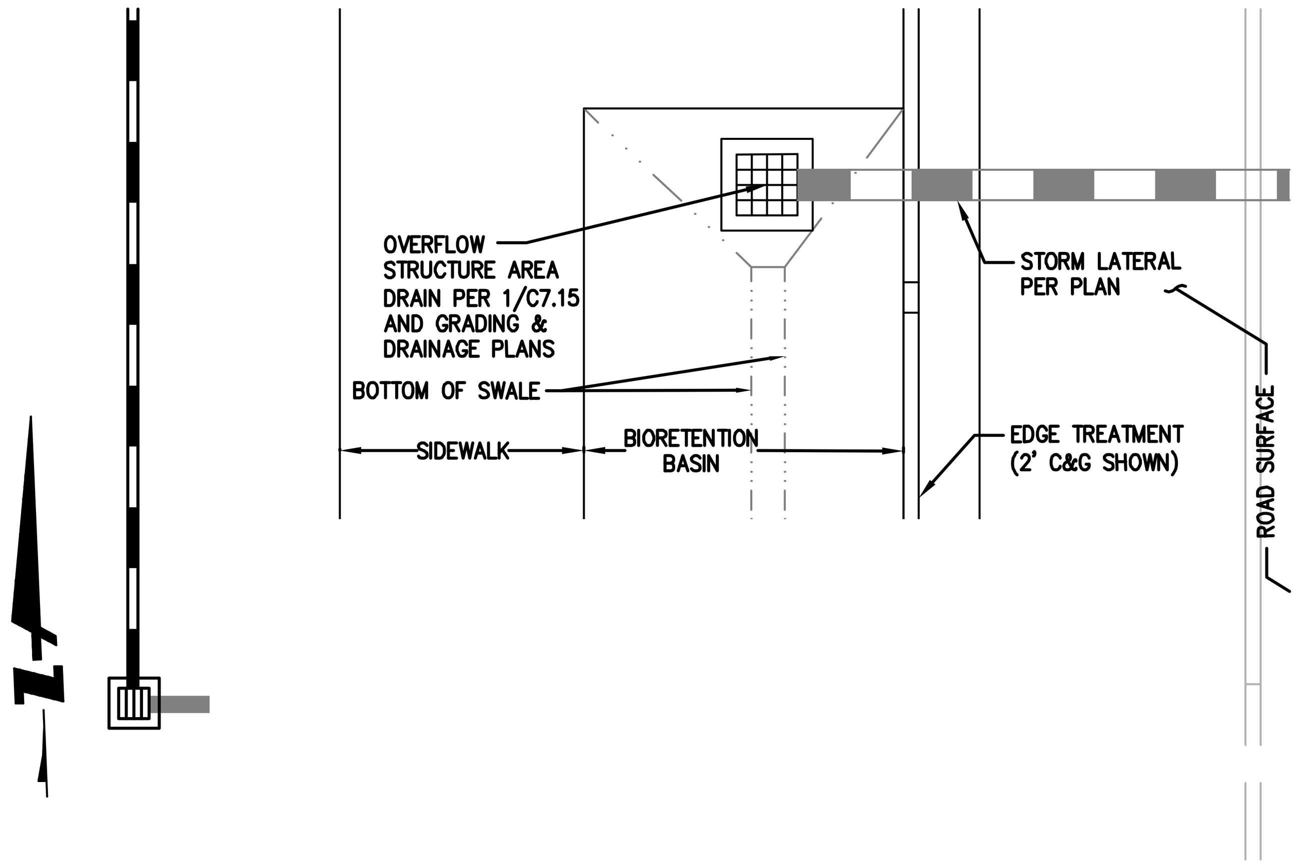
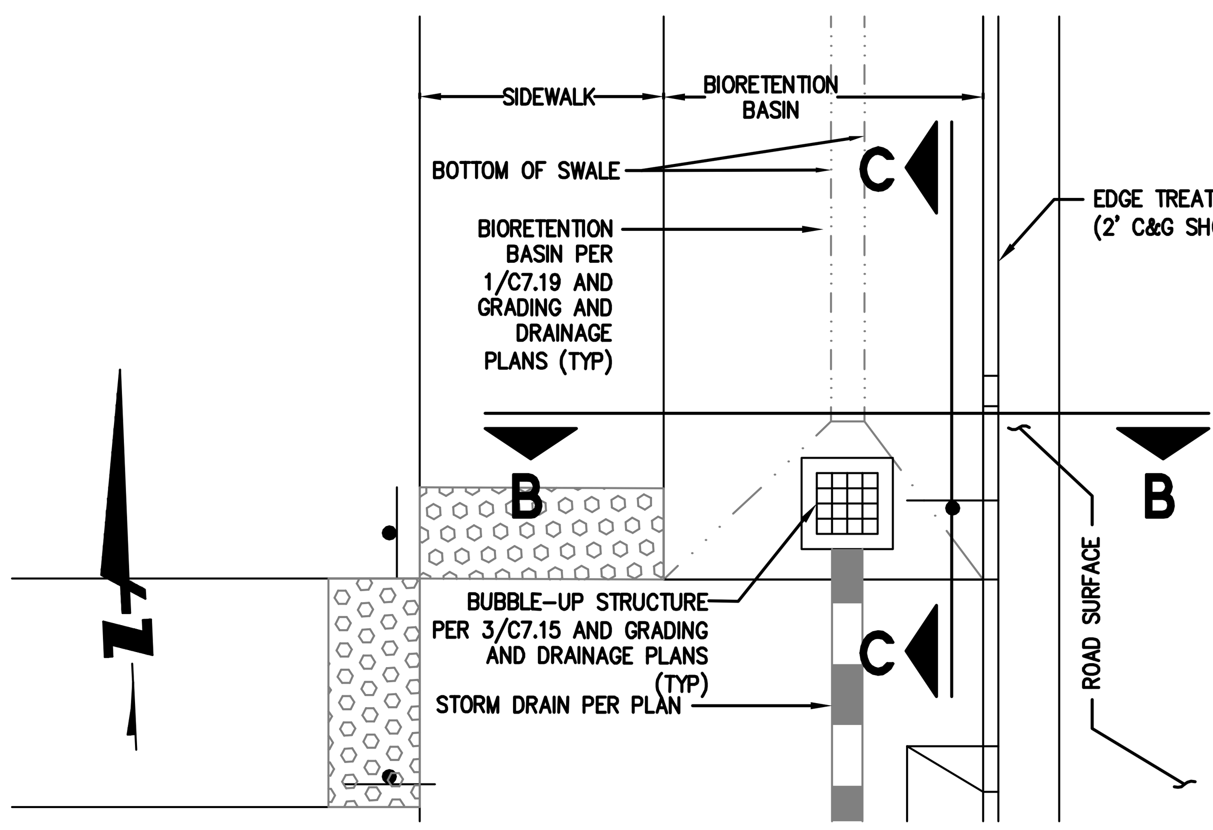


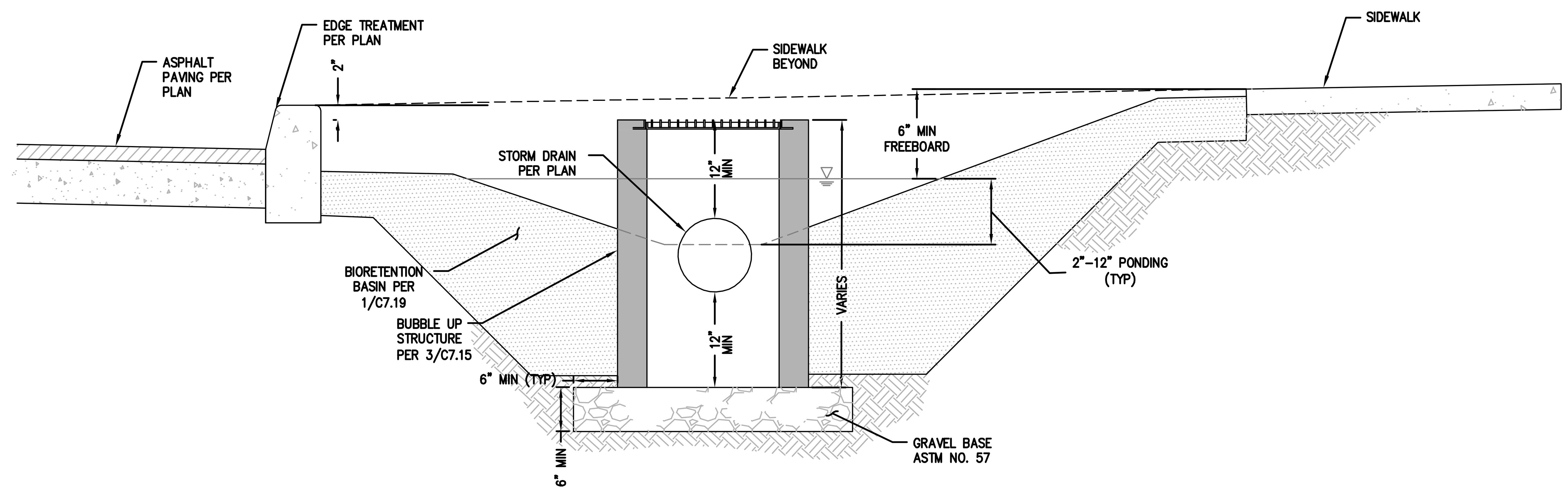
1 **TYPICAL STABILIZED OUTFALL PIPE - BLOCK01**

SCALE: 1"=5'



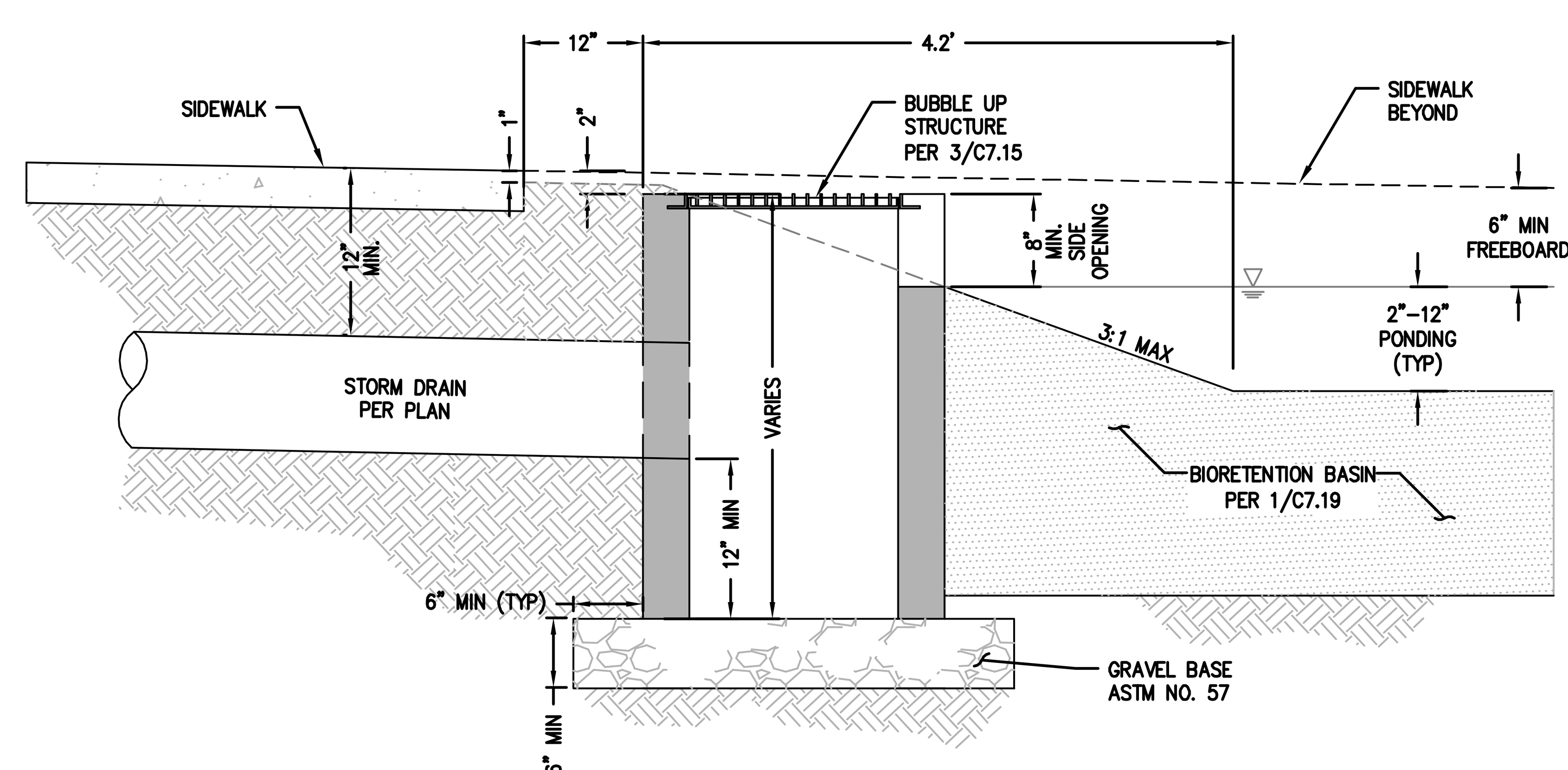
2 **TYPICAL BUBBLE-UP STRUCTURE PLAN**

SCALE: 1"=5'



4 **TYPICAL BUBBLE-UP SECTION B-B**

N.T.S.



5 **TYPICAL BUBBLE-UP SECTION C-C**

N.T.S.

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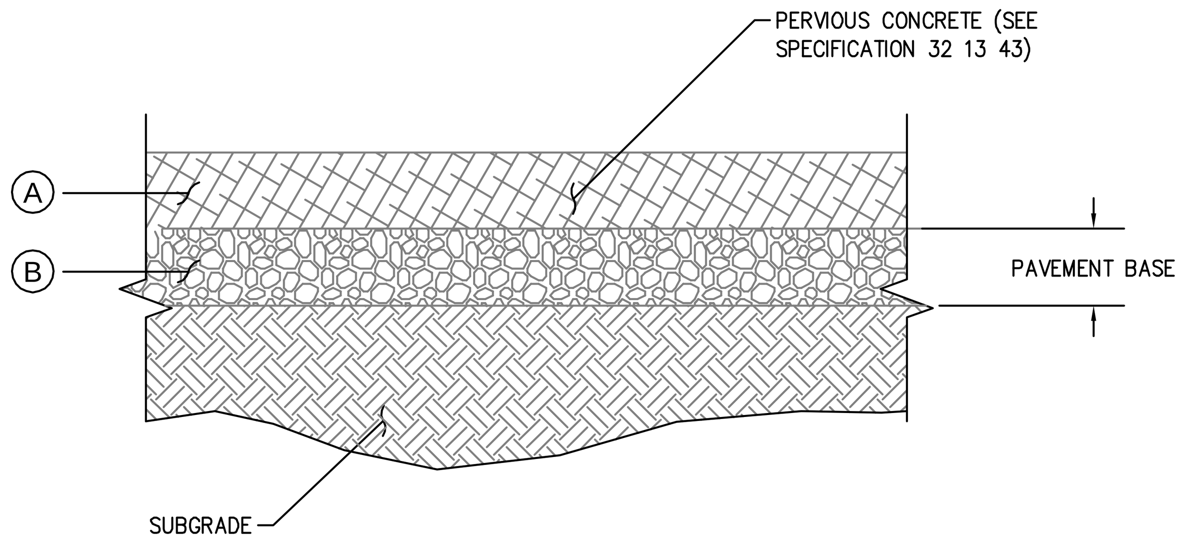


DETAIL - PERVIOUS CONCRETE

GENERAL UTILITY NOTES:

1. UTILITY TRENCHES THAT CROSS PERMEABLE PAVEMENT SHALL BE PLUGGED AT LEAST 2' THICK & 2' BEYOND TRENCH EDGE WITH COMPACTED CLAYEY-SOIL, COMPACTED BENTONITE, A-BENTONITE CEMENT OR SAND-CEMENT SLURRY.
2. ABANDONED UTILITIES WITHIN FOOTPRINT OF FACILITY AND OBSERVED DURING CONSTRUCTION MUST BE REMOVED. COORDINATE WITH MUNICIPAL OR PRIVATE OWNER AND ENGINEER.

PERVIOUS CONCRETE NOTES:

1. COMPACT SUBGRADE TO 90% OF MAXIMUM DENSITY PER STANDARD PROCTOR TEST (ASTM D698) FOR PEDESTRIAN APPLICATIONS, 95% OF MAXIMUM DENSITY PER MODIFIED PROCTOR TEST (ASTM D1557) FOR VEHICULAR APPLICATIONS, OR PER GEOTECHNICAL ENGINEER'S RECOMMENDATION.
2. PROOF-ROLL PREPARED SUBGRADE, REMOVE SOFT SPOTS, AND REPLACE WITH PERMEABLE STRUCTURAL FILL AS DIRECTED BY ENGINEER TO ACHIEVE UNIFORM SUBGRADE.
3. AFTER COMPACTION, SCARIFY SUBGRADE 1/4 TO 1/2 INCH DEEP BY HAND RAKE.
4. PROVIDE FLOW DIVERSION AND EROSION CONTROL MEASURES TO PROTECT THE PERMEABLE PAVEMENT AREA FROM SEDIMENTATION UNTIL UPSTREAM CATCHMENT AREA IS THOROUGHLY STABILIZED.

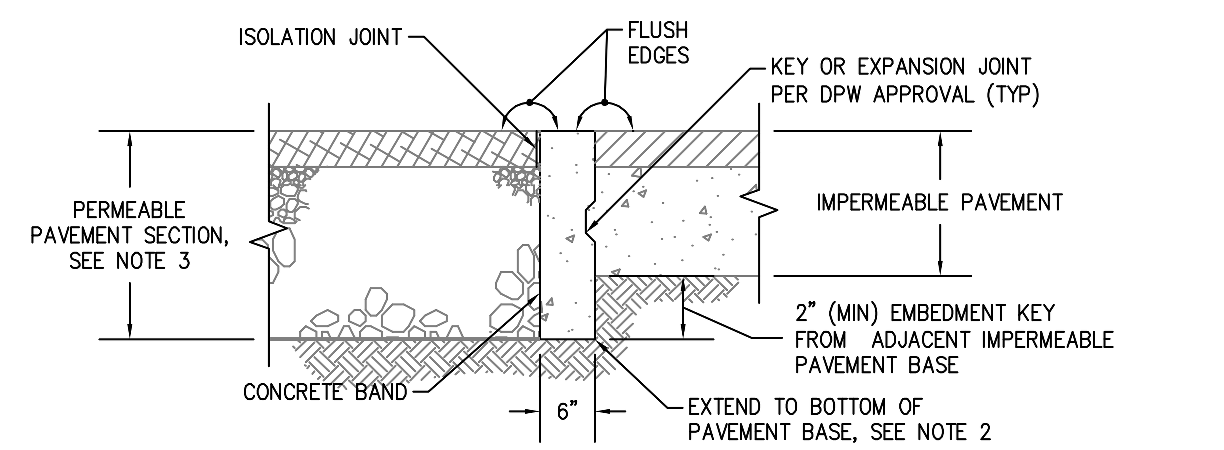
MINIMUM MATERIAL THICKNESS (IN):

LAYER	MATERIAL TYPE*	MODERATE VEHICULAR GOOD SOILS**
A	PERVIOUS CONCRETE	9
B	GRAVEL BASE COURSE ASTM NO. 3 OR 57	6

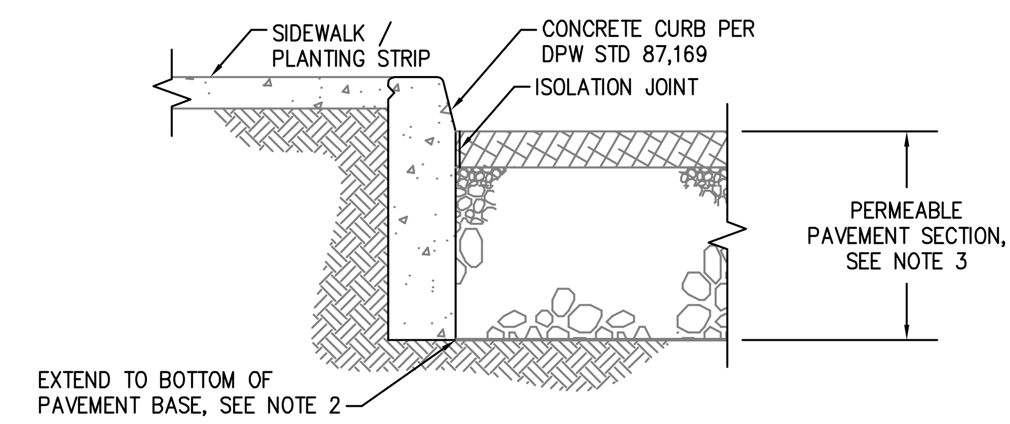
* MATERIAL FINER THAN NO. 100 SIEVE SHALL NOT EXCEED 2 PERCENT FOR ANY GRAVEL LAYER.

** "GOOD" AND "POOR" SOIL CLASSIFICATIONS BASED ON AASHTO GUIDE FOR DESIGN OF PAVEMENT STRUCTURES. DETERMINATION OF SOIL CLASSIFICATION SHALL BE CONFIRMED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.

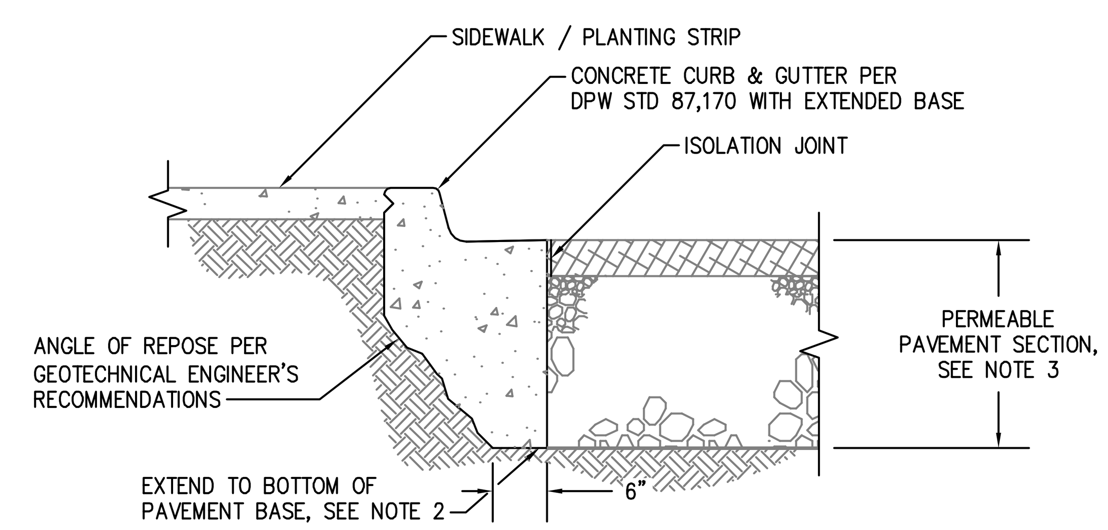
1 — **PERMEABLE PAVEMENT - PERVIOUS CONCRETE**
N.T.S.



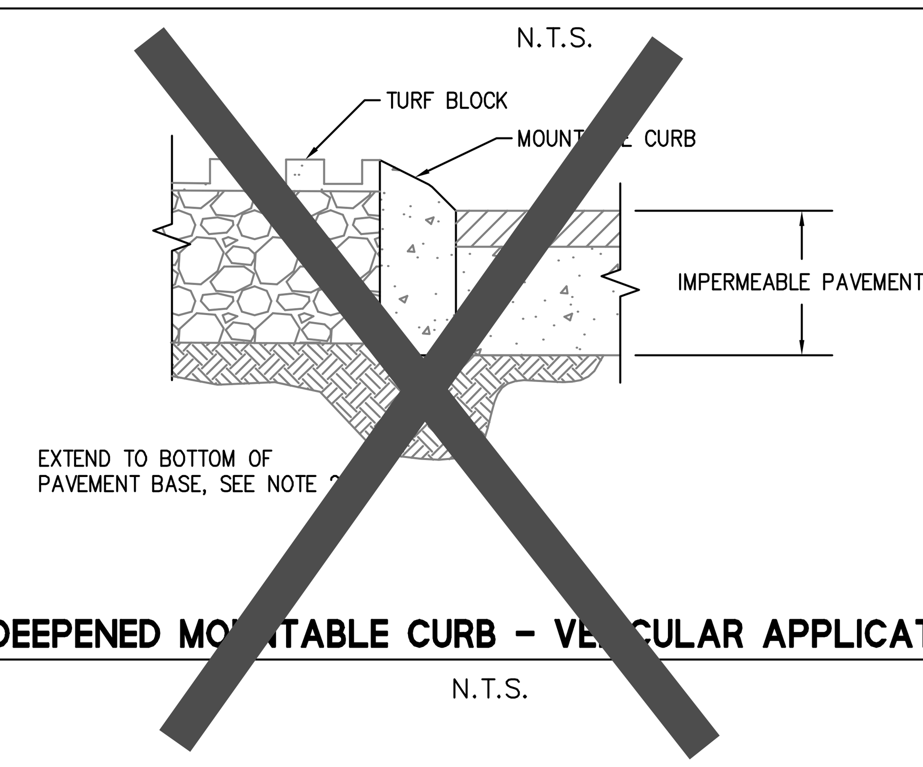
2 — **CONCRETE BAND WITHIN PAVED AREA - VEHICULAR APPLICATION**
N.T.S.



3 — **DEEPENED STANDARD CURB - VEHICULAR APPLICATION**
N.T.S.



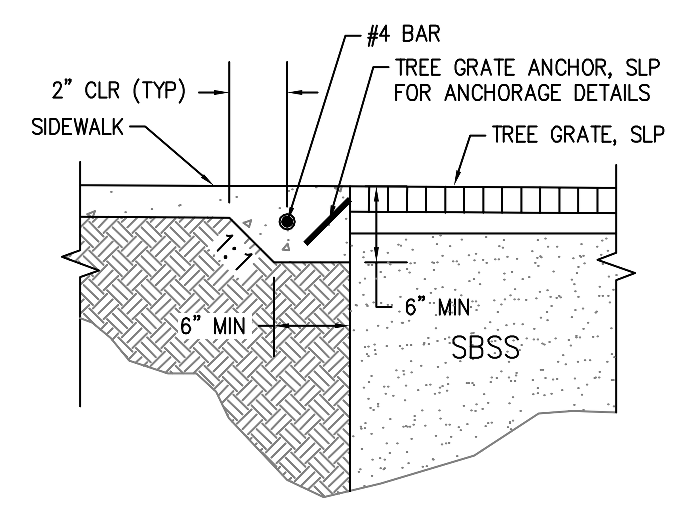
4 — **DEEPENED STANDARD CURB AND GUTTER - VEHICULAR APPLICAITON**
N.T.S.



5 — **DEEPENED MO~~UNTABLE CURB - VE~~HICULAR APPLICATION**
N.T.S.

EDGE TREATMENT NOTES:

1. ALL MATERIAL AND WORKMANSHIP FOR EDGE TREATMENTS SHALL CONFORM TO PROJECT SPECIFICATIONS.
2. FOR DEEP PAVEMENT SECTIONS, EDGE TREATMENT NOT REQUIRED TO EXTEND MORE THAN 12 INCHES BELOW WEARING COURSE PROVIDED REQUIREMENTS AT INTERFACE WITH IMPERMEABLE PAVEMENTS ARE SATISFIED.
3. REFER TO SHEET C7.17, DETAIL 1 AND THE PAVING PLANS FOR PERMEABLE PAVEMENT SECTIONS.



6 — **THICKENED CONCRETE EDGE AT TREE GRATE**
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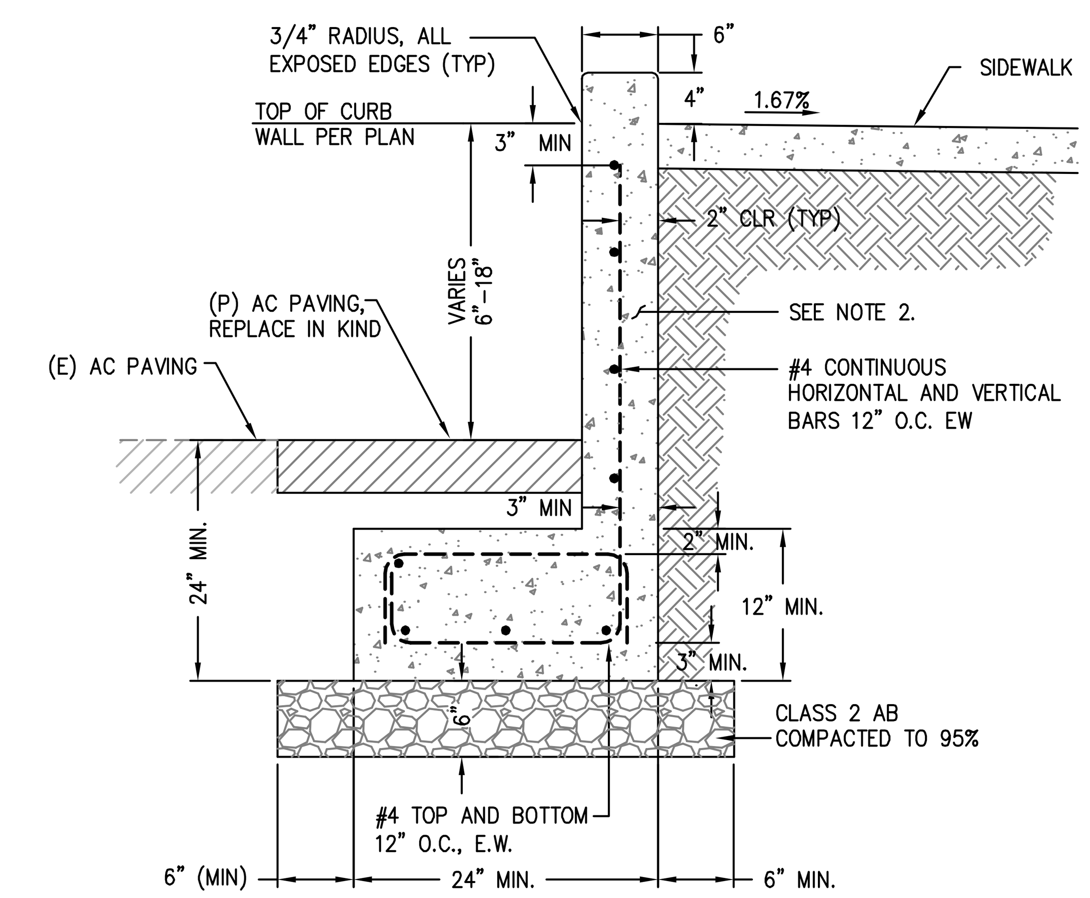

NOTES:
1. PROVIDE EXPANSION JOINTS EVERY 20' O.C.
2. PCC CURB WALL CONCRETE AND REBAR SHALL CONFORM TO THE CITY OF SAN FRANCISCO STANDARD SPECIFICATIONS.

7 — **CURB WALL**
NTS

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255 SHORELINE DR
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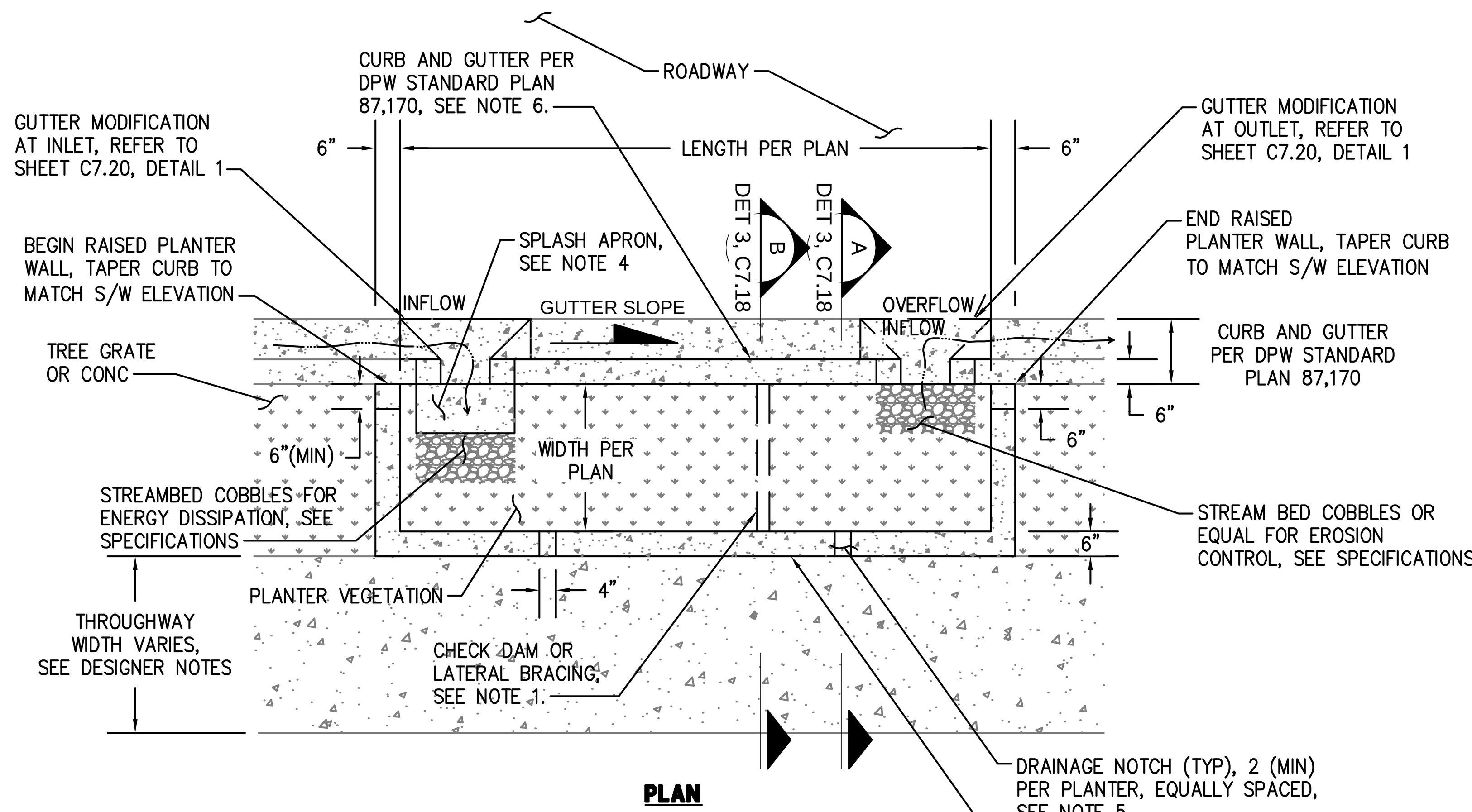


PLAN

CONSTRUCTION NOTES:

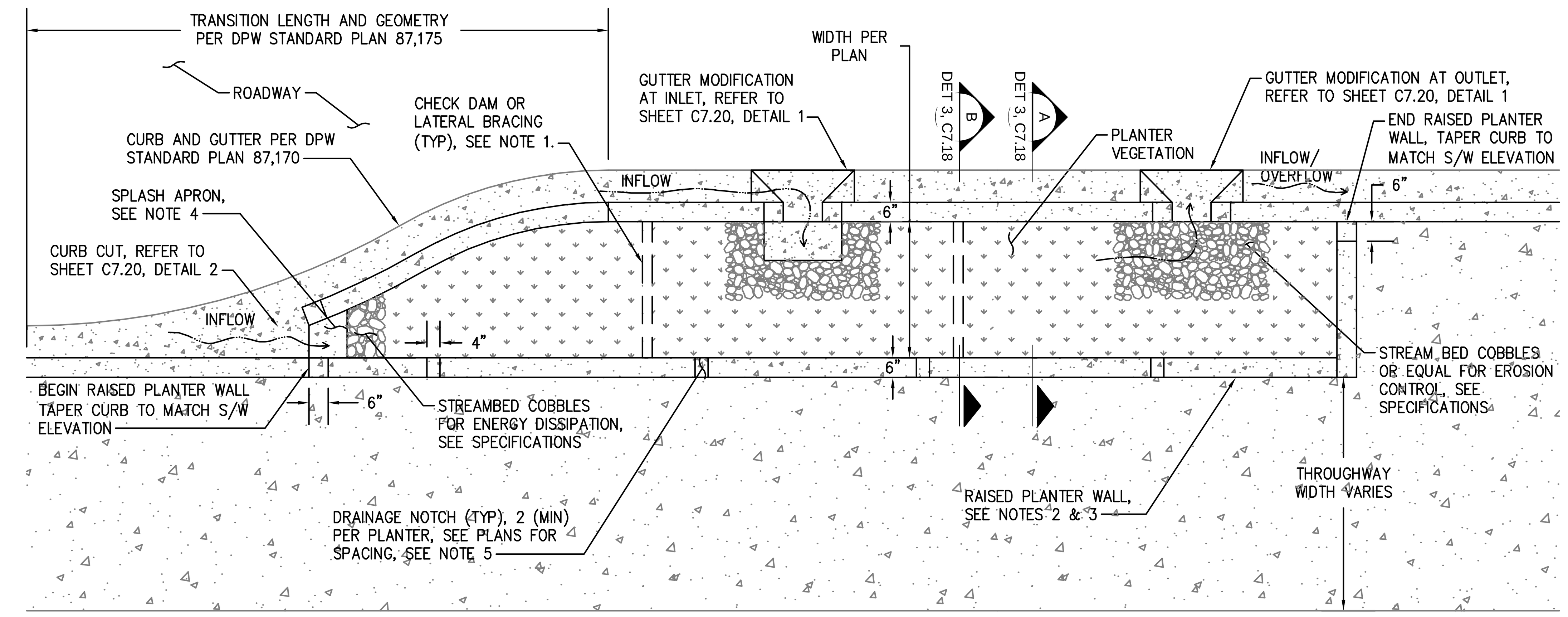
1. CHECK DAMS SHALL BE SPACED TO PROVIDE PONDING PER SITE SPECIFIC DESIGN. REFER TO SHEET C7.21, DETAIL 2 AND BMP GRADING DETAILS. LATERAL BRACING REQUIRED IN ALL PLANTERS REFER TO BMP GRADING DETAILS FOR LOCATIONS AND SHEET C7.18, DETAIL 3 FOR INFORMATION.
2. SLOPE TOP OF PLANTER WALL TO MATCH LONGITUDINAL SLOPE OF ADJACENT SURFACE.
3. FOR EDGE TREATMENT OPTIONS, REFER TO SHEET C7.17.
4. SPLASH APRON SHALL NOT BE INTEGRAL TO PLANTER WALL OR OTHER ADJACENT CONCRETE SURFACES.
5. LAYOUT DRAINAGE NOTCHES TO PREVENT PONDING BEHIND PLANTER WALL. REFER TO SHEET C7.18, DETAIL 3.
6. CURB AND GUTTER W/ WALL EXTENSION, REFER TO SHEET C7.18, DETAIL 3.

GENERAL UTILITY NOTES:

1. INCLUDE MEASURES TO PREVENT PREFERENTIAL FLOW INTO UTILITY TRENCHES. UTILITY TRENCHES THAT CROSS PERMEABLE PAVEMENT OR BIORETENTION FACILITIES SHALL BE PLUGGED AT LEAST 2' THICK & 2' BEYOND TRENCH EDGE WITH COMPACTED CLAYEY-SOIL, COMPACTED BENTONITE, A-BENTONITE CEMENT OR SAND-CEMENT SLURRY.
2. ABANDONED UTILITIES WITHIN FOOTPRINT OF FACILITY AND OBSERVED DURING CONSTRUCTION MUST BE REMOVED. COORDINATE WITH MUNICIPAL OR PRIVATE OWNER AND ENGINEER.

1 BIORETENTION PLANTER PLAN (ROADSIDE PLANTER WITHOUT PARKING)

N.T.S.



PLAN

CONSTRUCTION NOTES:

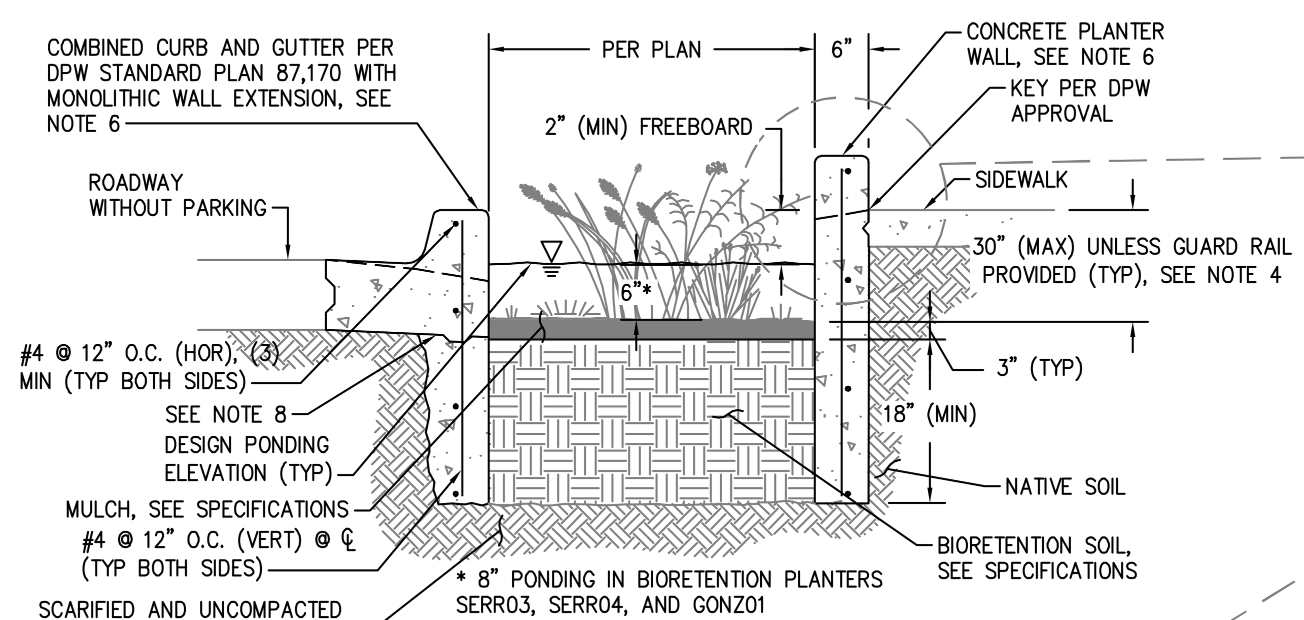
1. CHECK DAMS SHALL BE SPACED TO PROVIDE PONDING PER SITE SPECIFIC DESIGN. REFER TO C7.21, DETAIL 2 AND BMP GRADING DETAILS. LATERAL BRACING REQUIRED IN ALL PLANTERS, REFER TO BMP GRADING DETAILS FOR LOCATIONS AND SHEET C7.18, DETAIL 3 FOR INFORMATION.
2. SLOPE TOP OF PLANTER WALL TO MATCH LONGITUDINAL SLOPE OF ADJACENT SURFACE.
3. FOR EDGE TREATMENT OPTIONS, REFER TO SHEET C7.17.
4. SPLASH APRON SHALL NOT BE INTEGRAL TO PLANTER WALL OR OTHER ADJACENT CONCRETE SURFACES. REFER TO INLET CURB CUT OR OUTLET CURB CUT FOR ENERGY DISSIPATOR DETAILS.
5. LAY OUT DRAINAGE NOTCHES TO PREVENT PONDING BEHIND PLANTER WALL. REFER TO SHEET C7.18, DETAIL 3.
6. CURB AND GUTTER W/ WALL EXTENSION, REFER TO SHEET C7.18, DETAIL 3.

GENERAL UTILITY NOTES:

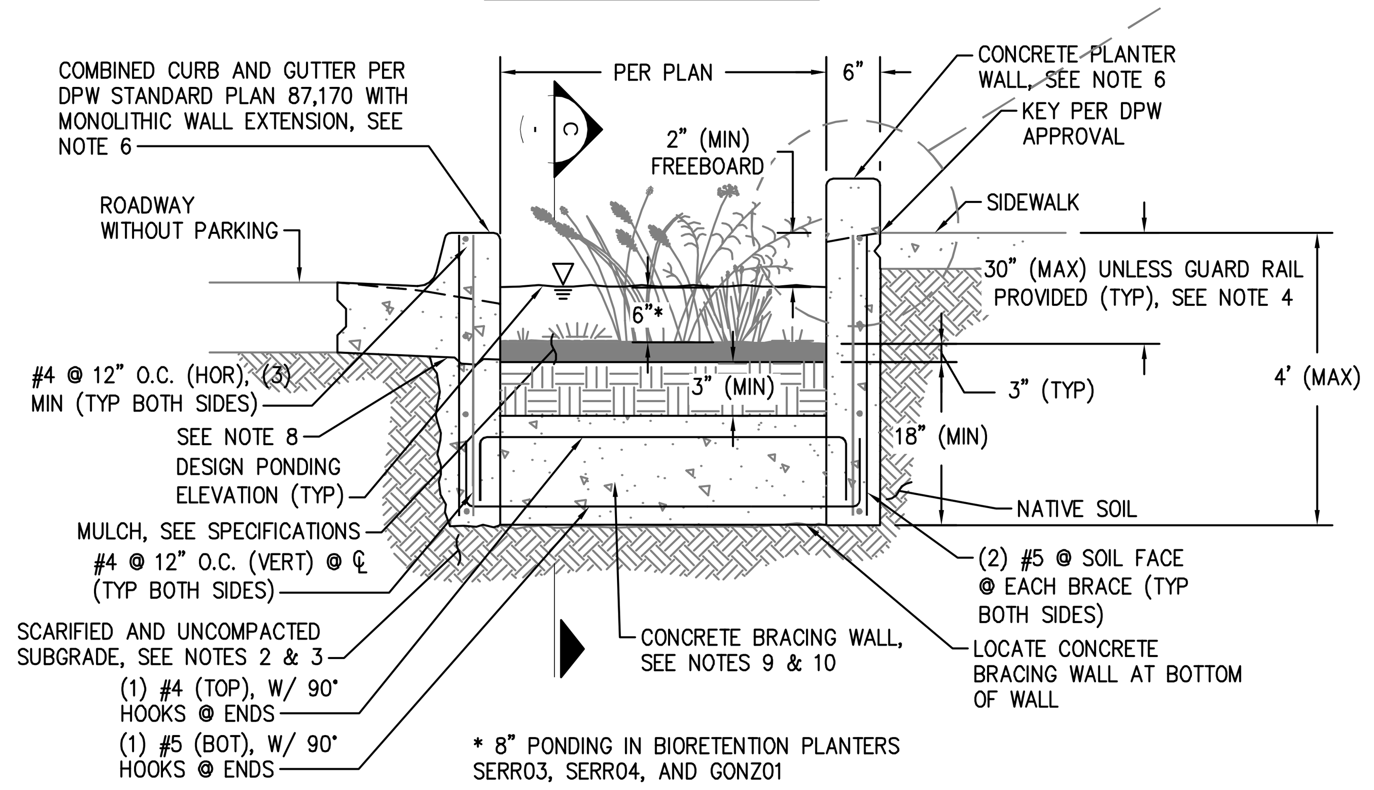
1. INCLUDE MEASURES TO PREVENT PREFERENTIAL FLOW INTO UTILITY TRENCHES. UTILITY TRENCHES THAT CROSS PERMEABLE PAVEMENT OR BIORETENTION FACILITIES SHALL BE PLUGGED AT LEAST 2' THICK & 2' BEYOND THE TRENCH EDGE WITH COMPACTED CLAYEY-SOIL, COMPACTED BENTONITE, A-BENTONITE CEMENT OR SAND-CEMENT SLURRY..
2. ABANDONED UTILITIES WITHIN FOOTPRINT OF FACILITY AND OBSERVED DURING CONSTRUCTION MUST BE REMOVED. COORDINATE WITH MUNICIPAL OR PRIVATE OWNER AND ENGINEER.

2 BIORETENTION PLANTER (ROADSIDE BULBOUT PLANTER)

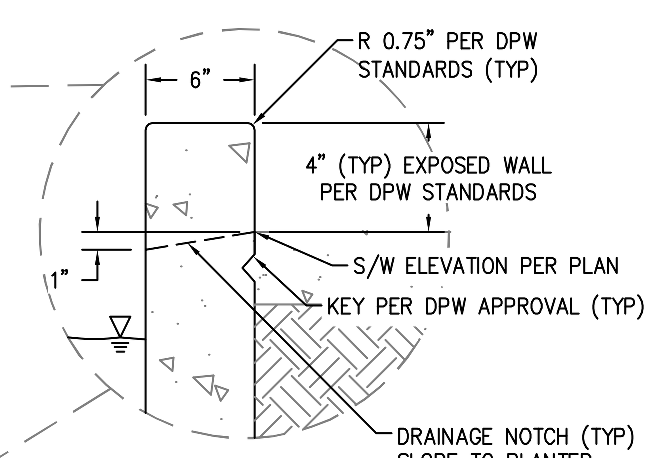
N.T.S.



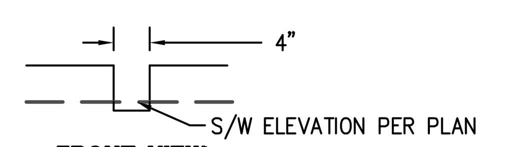
SECTION A - SHORT WALL



SECTION B - SHORT WALL @ BRACING

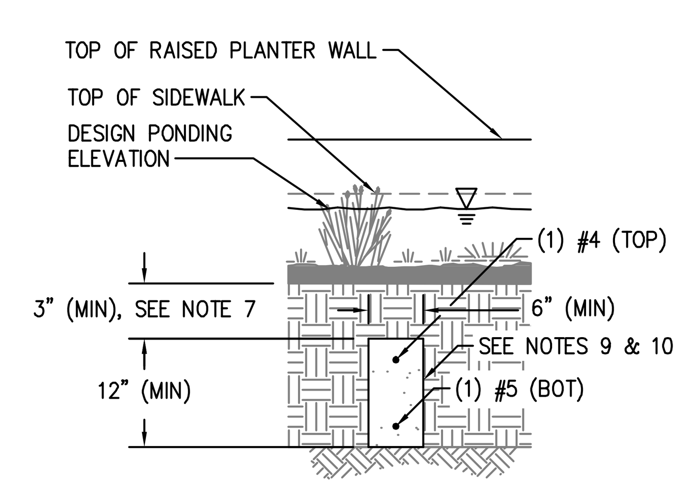


SIDE VIEW



FRONT VIEW

TYPICAL DRAINAGE NOTCH DETAIL



SECTION C

CONSTRUCTION NOTES:

1. ALL MATERIAL AND WORKMANSHIP FOR LATERAL BRACING SHALL CONFORM TO PROJECT SPECIFICATIONS.
2. AVOID COMPACTION OF EXISTING SUBGRADE BELOW PLANTER DURING CONSTRUCTION.
3. SCARIFY SUBGRADE TO A DEPTH OF 6 INCHES (MIN) IMMEDIATELY PRIOR TO PLACEMENT OF BIORETENTION SOIL.
4. MAXIMUM DROP FROM TOP OF CURB TO TOP OF BIORETENTION SOIL SHALL INCLUDE CONSIDERATIONS FOR BIORETENTION SOIL SETTLEMENT.
5. FOR EDGE TREATMENT OPTIONS, REFER TO SHEET C7.17.
6. ALL PLANTER WALLS SHALL EXTEND TO BOTTOM OF BIORETENTION SOIL, OR DEEPER.
7. CONTRACTOR TO PROVIDE 3 INCH MINIMUM COVER OVER ALL LATERAL BRACING FOR PLANT ESTABLISHMENT.
8. ALL CONSTRUCTION COLD JOINTS SHALL INCORPORATE EPOXY, DOWEL, KEYWAY, AND WATER STOP.
9. CONCRETE LATERAL BRACING SHALL BE CONTINUOUS (NO JOINTS).
10. LATERAL BRACING SHALL BE PROVIDED EVERY 6 FEET (MAX) FOR WALLS UP TO 4 FEET IN HEIGHT AND EVERY 4 FEET (MAX) FOR WALLS BETWEEN 4 AND 6 FEET IN HEIGHT.
11. LATERAL BRACING SHALL MEET HYDROLOGIC AND HYDRAULIC DESIGN REQUIREMENTS FOR CHECK DAMS WHEN USED AS CHECK DAMS. REFER TO SHEET C7.21, DETAIL 2.

3 PLANTER WALL WITH LATERAL BRACING

N.T.S.

255 SHORELINE DR
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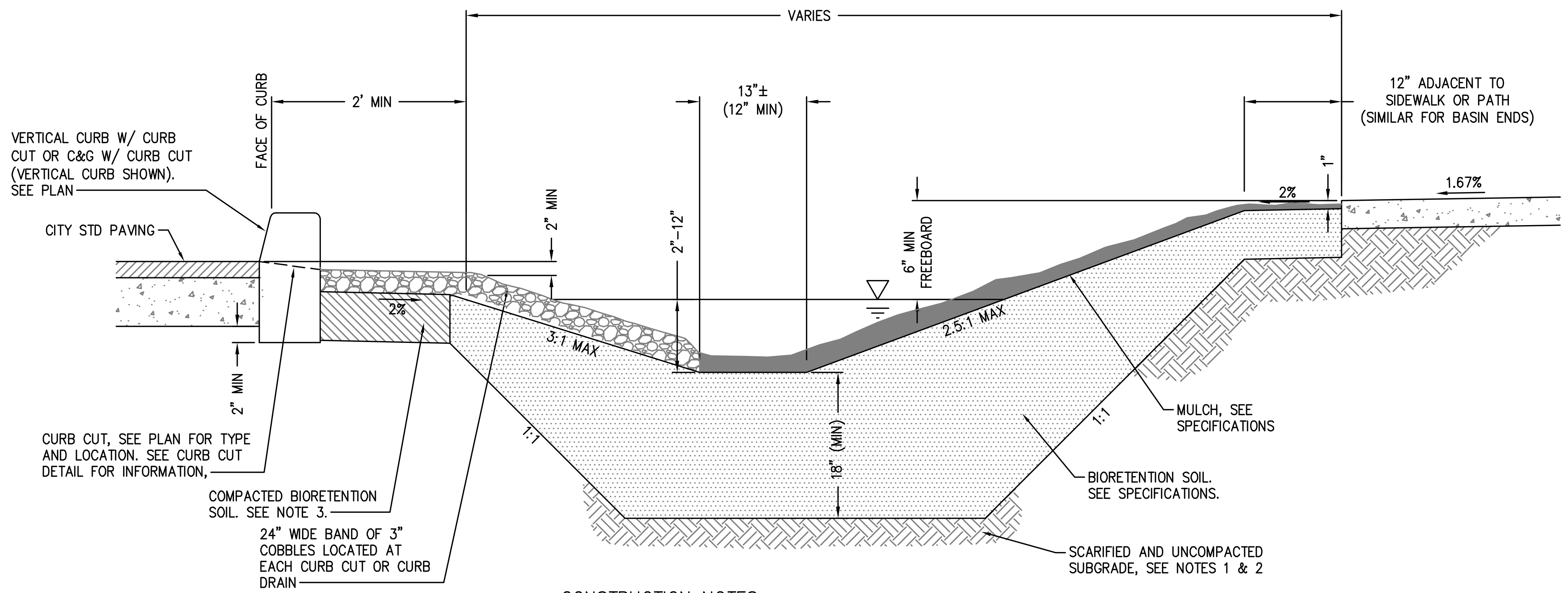
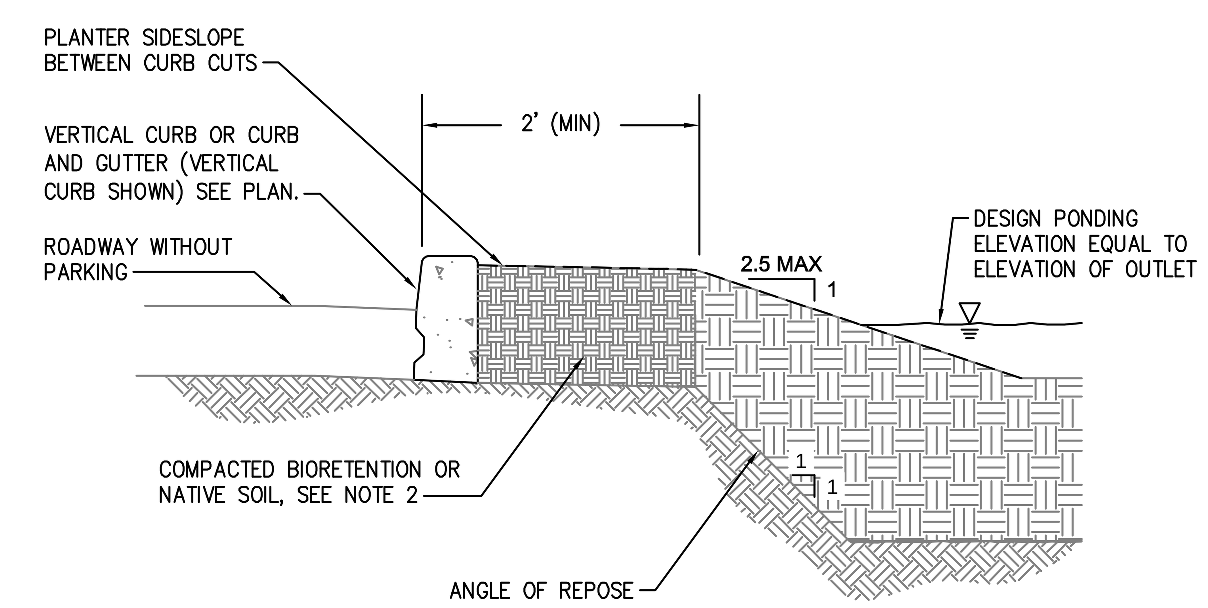


CONSTRUCTION NOTES:

1. AVOID COMPACTION OF EXISTING SUBGRADE BELOW BASIN.
2. SCARIFY SUBGRADE TO A DEPTH OF 3 INCHES (MIN) IMMEDIATELY PRIOR TO PLACEMENT OF BIORETENTION SOIL.
3. COMPACT BIORETENTION SOIL IMMEDIATELY BEHIND CURB OR SIDEWALK TO 90% OF MAXIMUM DENSITY PER STANDARD PROCTOR TEST (ASTM D698).

1 / – BIORETENTION BASIN DETAIL

N.T.S.



CONSTRUCTION NOTES:

1. ALL MATERIAL AND WORKMANSHIP FOR EDGE TREATMENTS SHALL CONFORM TO PROJECT SPECIFICATIONS.
2. COMPACT BIORETENTION OR NATIVE SOIL TO 90% OF MAXIMUM DENSITY PER STANDARD PROCTOR TEST (ASTM D698).

2 / – STANDARD CURB EDGE AT BIORETENTION BASIN

N.T.S.

255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

BKF
ENGINEERS / SURVEYORS / PLANNERS

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS

SAN FRANCISCO COUNTY

SAN FRANCISCO — CALIFORNIA

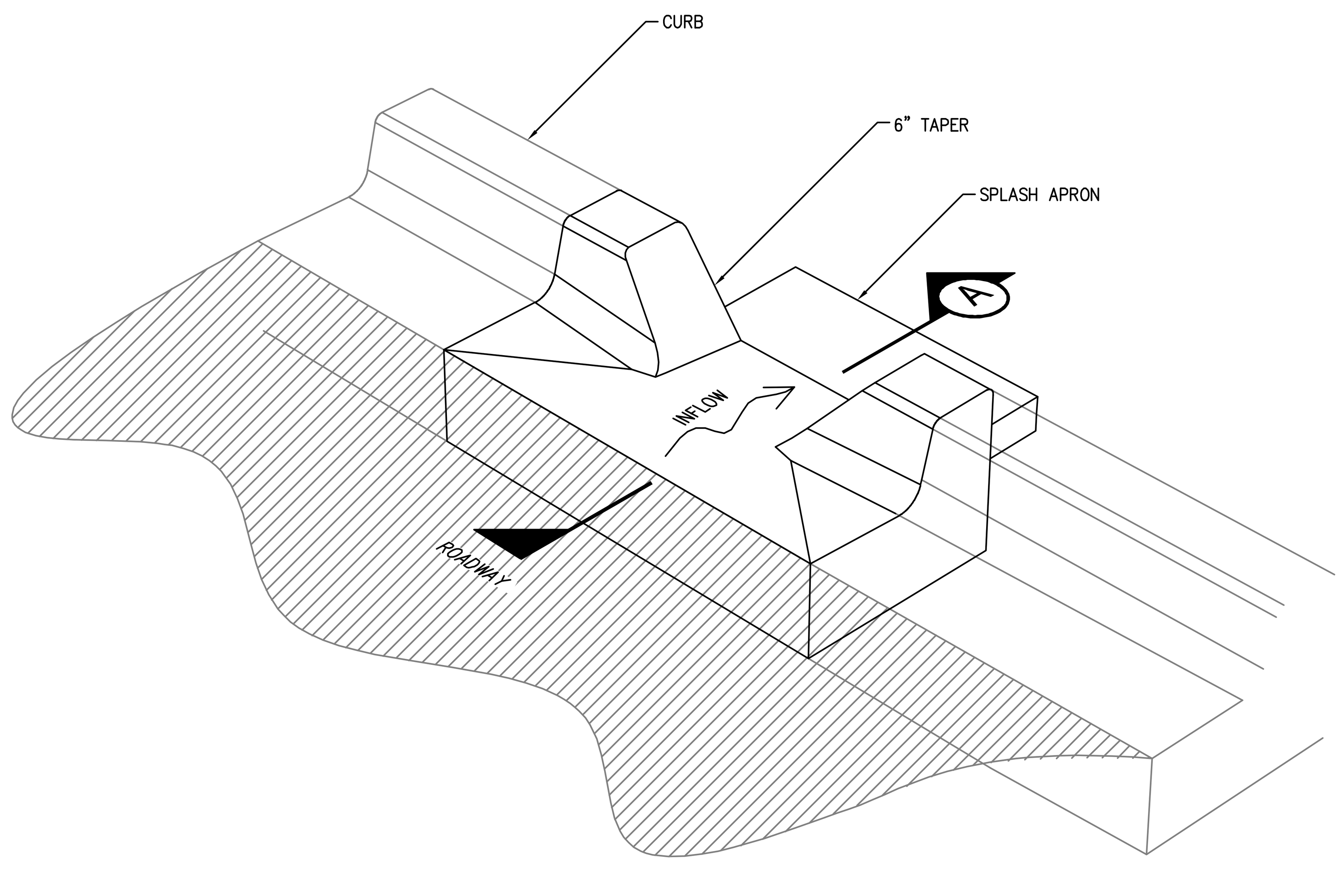
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.19

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.19)
PLOT TIME: 4-28-2017 4:21 PM PLOTTED BY: bum

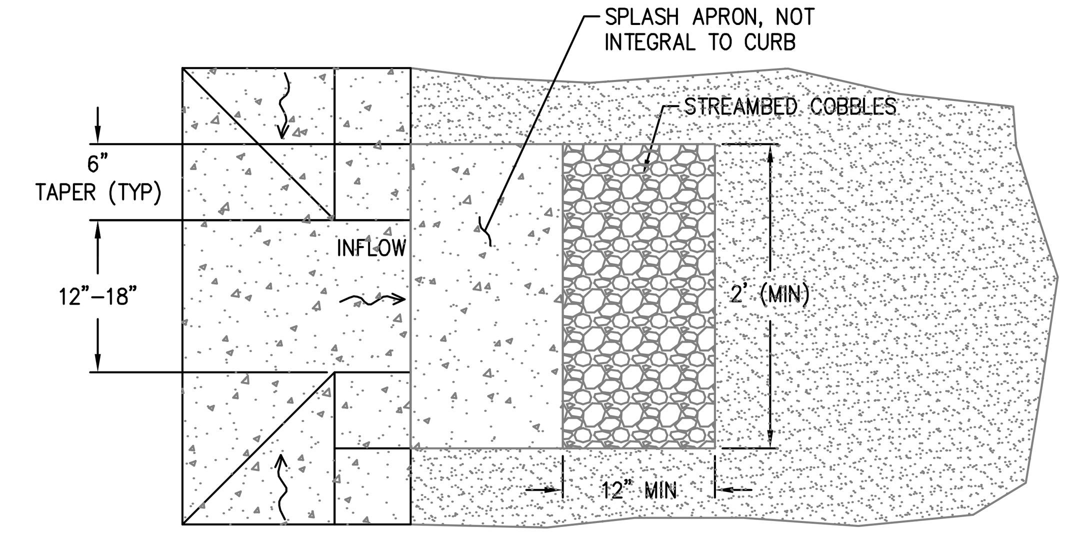
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



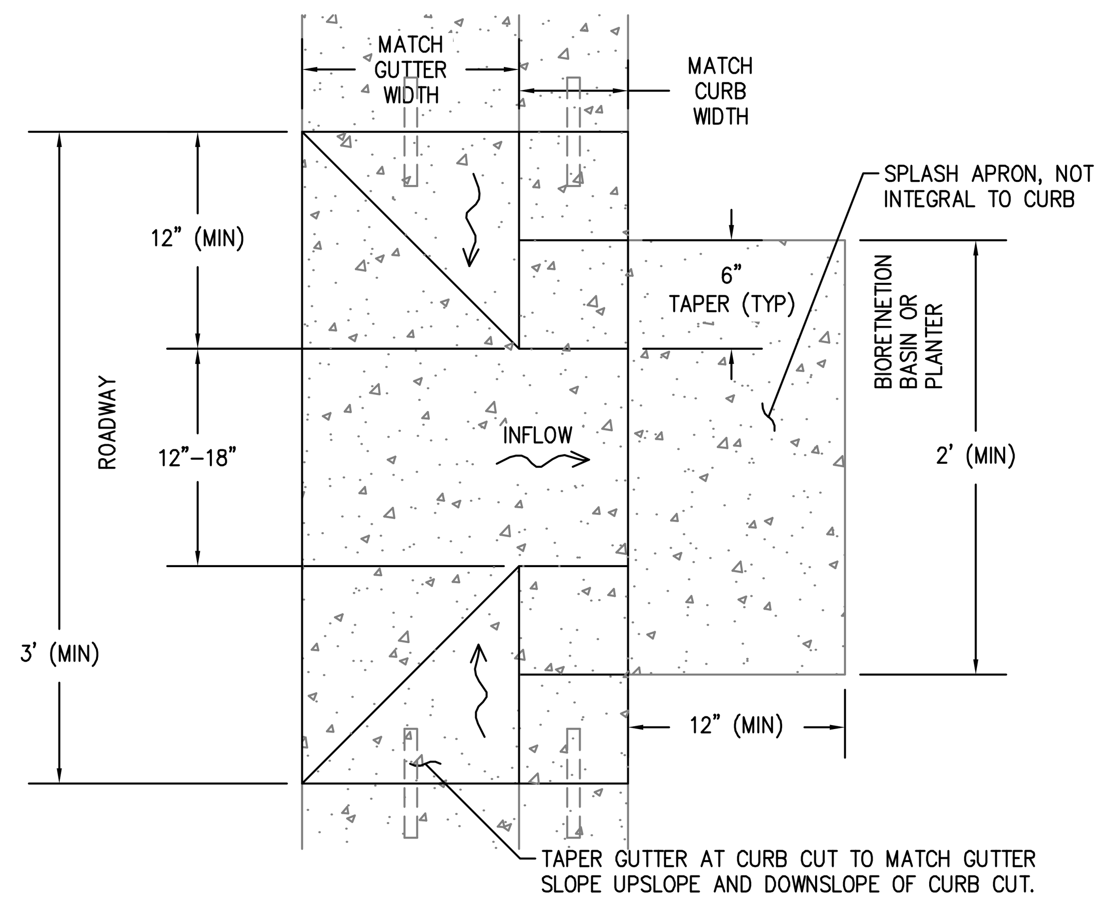
ISOMETRIC

CONSTRUCTION NOTES:

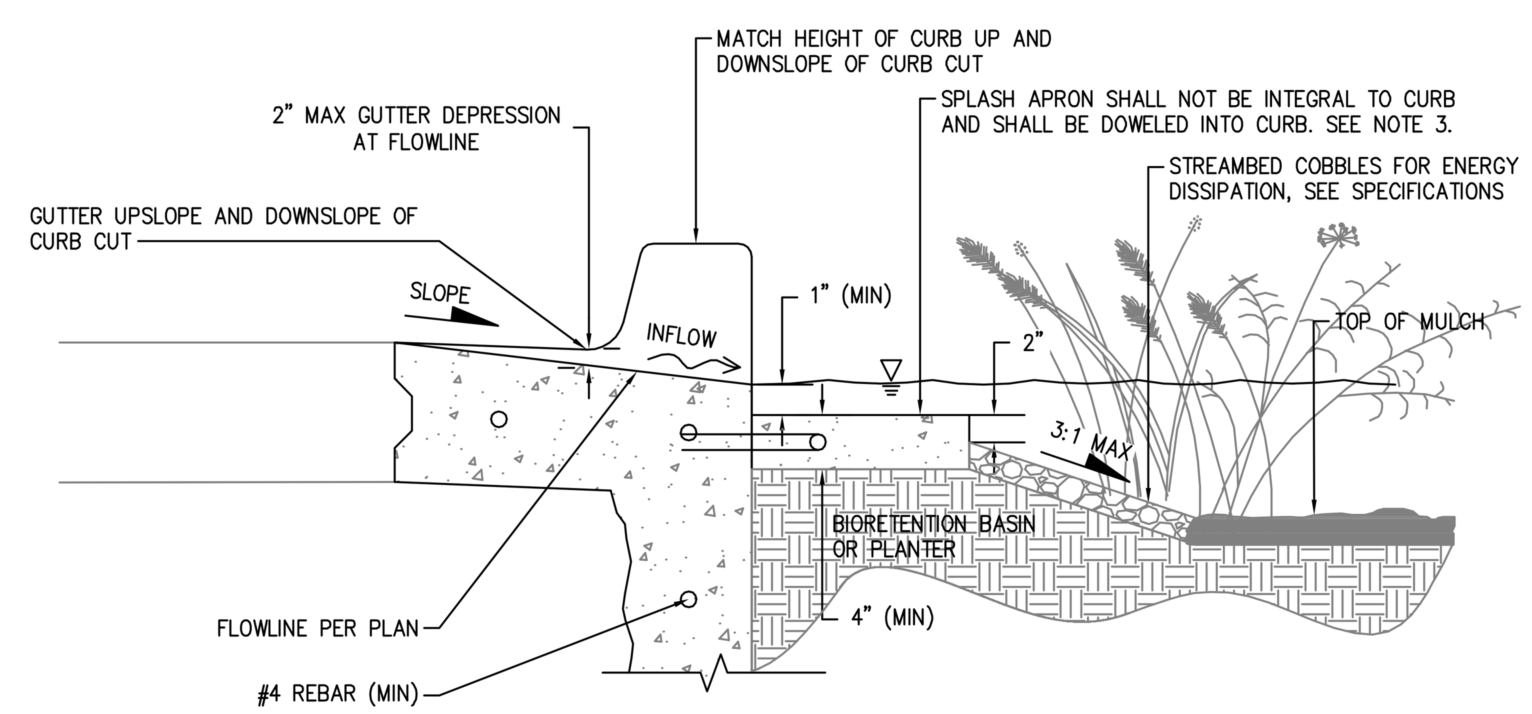
1. ALL MATERIAL AND WORKMANSHIP FOR CURB CUTS SHALL CONFORM TO PROJECT SPECIFICATIONS AND APPLICABLE CODES PER SAN FRANCISCO PUBLIC WORKS.
2. BOND NEW CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH EPOXY AND 12" LONG #4 REBAR DOWEL CONNECTION.
3. DOWEL SPLASH APRONS TO CURB. PROVIDE A MINIMUM OF 2 12" LONG #4 REBAR DOWELS PER SPLASH APRON.
4. INLET, CURB CUT TYPE I CAN ALSO BE USED AS OVERFLOW.



STREAMBED COBBLES

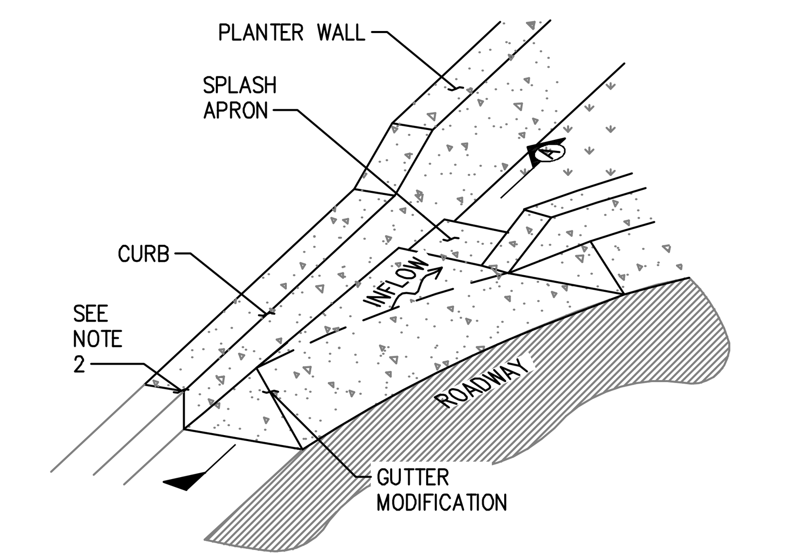


PLAN



SECTION A

1 INLET - CURB CUT TYPE I
N.T.S.



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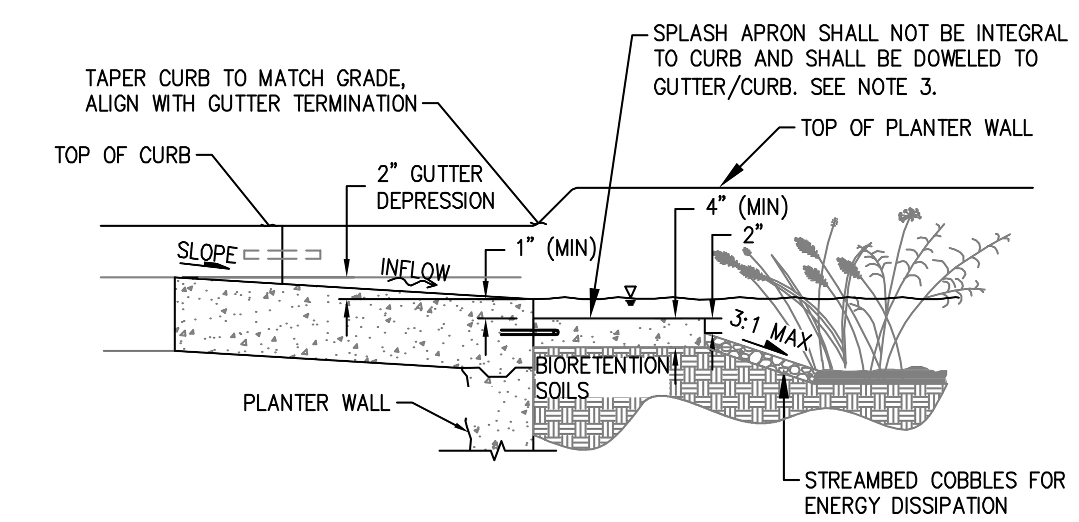
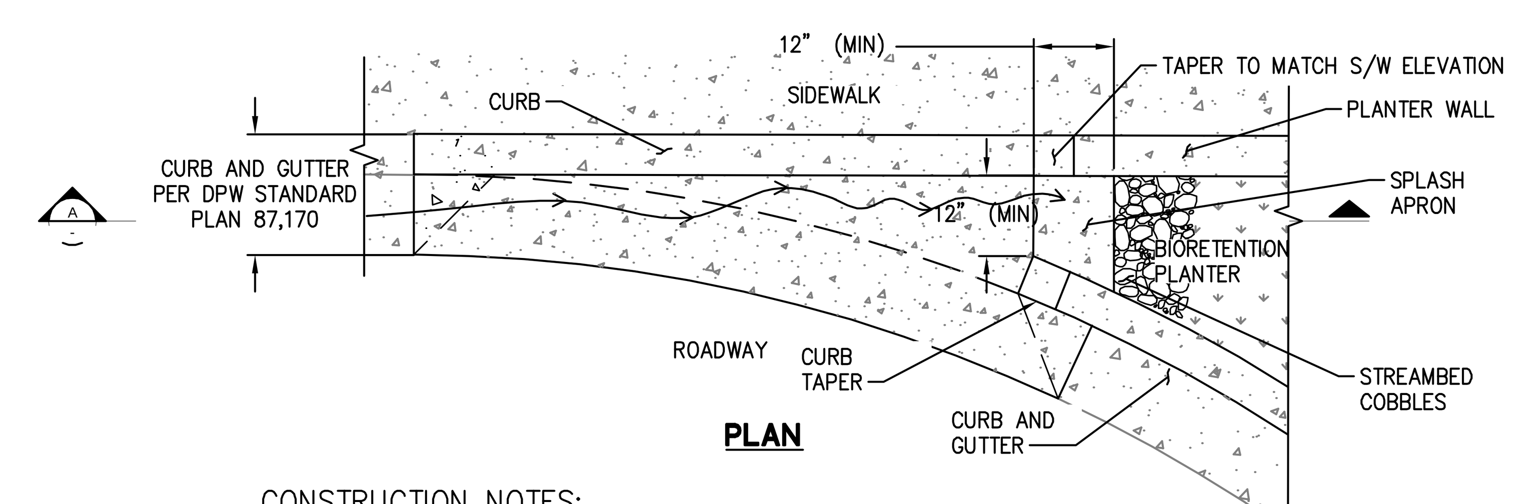


SECTION A



PLAN

CONSTRUCTION NOTES:

1. ALL MATERIAL AND WORKMANSHIP FOR CURB CUTS SHALL CONFORM TO PROJECT SPECIFICATIONS AND APPLICABLE CODES PER SAN FRANCISCO PUBLIC WORKS.
2. BOND NEW CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH EPOXY AND 12" LONG #4 REBAR DOWEL CONNECTION.
3. DOWEL SPLASH APRONS TO CURB/GUTTER. PROVIDE A MINIMUM OF 3 12" LONG #4 REBAR DOWELS (ONE PER FACE OF SPLASH APRON/CURB OR SPLASH APRON/GUTTER JOINT).

2 INLET - CURB CUT TYPE II
N.T.S.

BKF ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

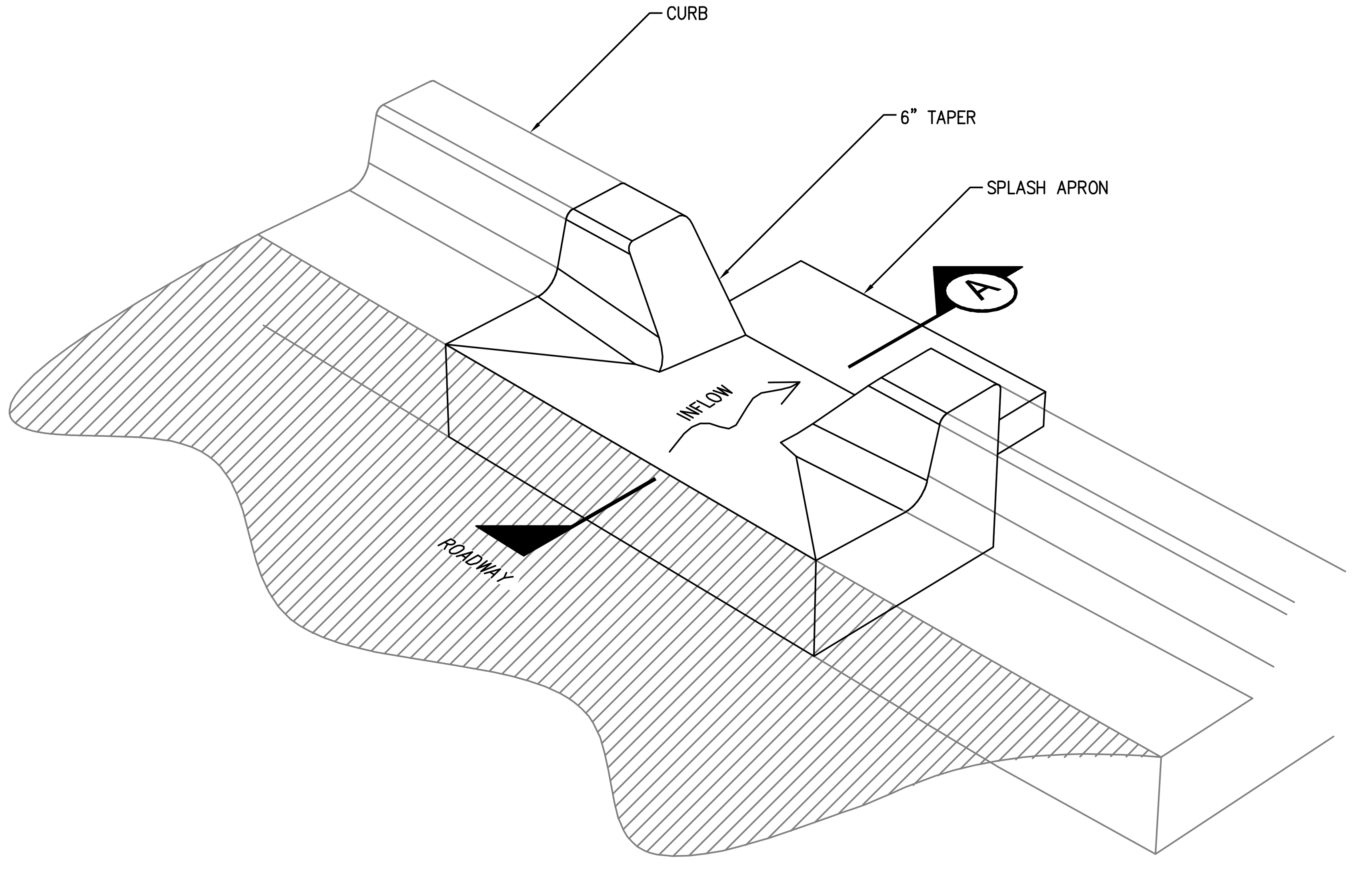
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.20

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.20)
PLOT TIME: 5-1-2017 11:26 AM PLOTTED BY: bum

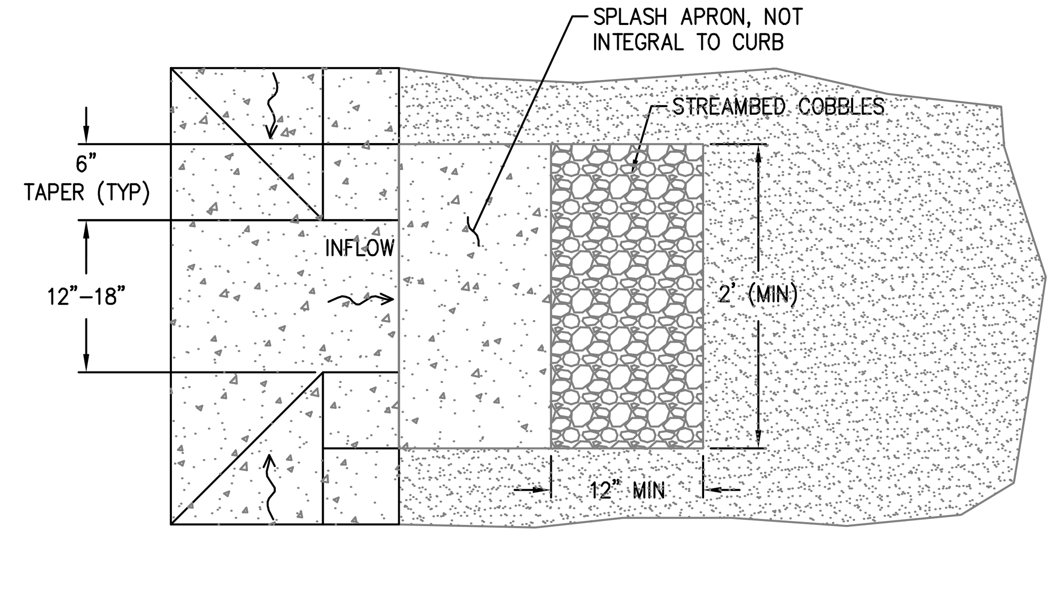
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



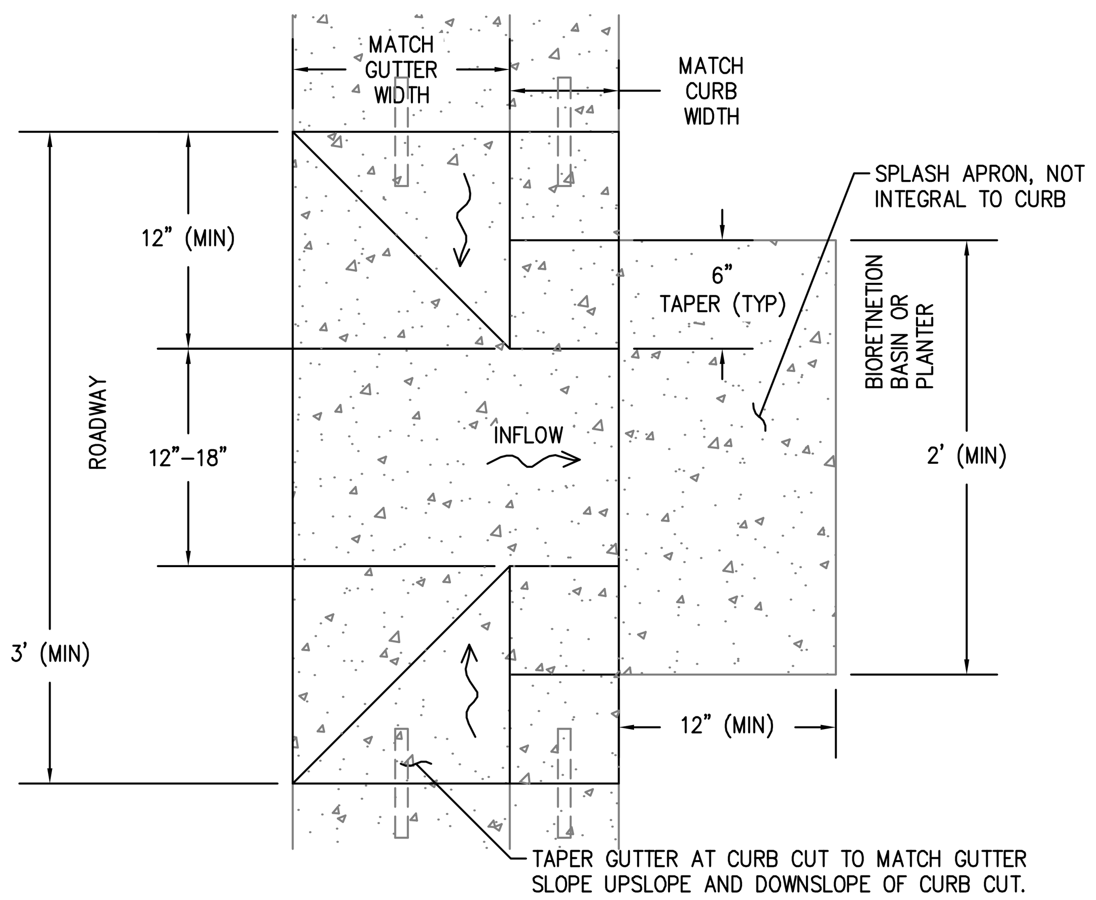
ISOMETRIC

CONSTRUCTION NOTES:

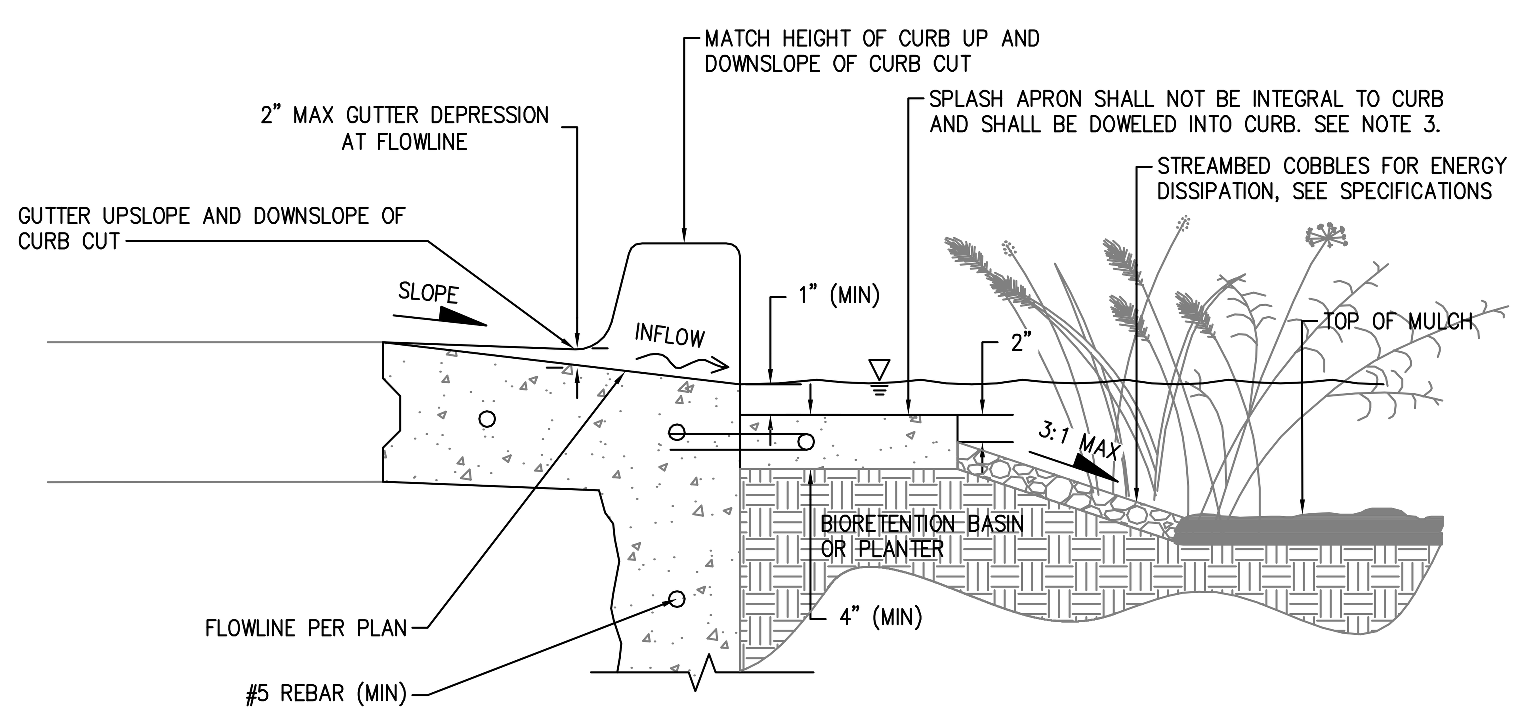
1. ALL MATERIAL AND WORKMANSHIP FOR CURB CUTS SHALL CONFORM TO PROJECT SPECIFICATIONS AND APPLICABLE CODES PER SAN FRANCISCO PUBLIC WORKS.
2. BOND NEW CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH EPOXY AND DOWEL CONNECTION.
3. DOWEL SPLASH APRONS TO CURB. PROVIDE A MINIMUM OF 2 DOWELS PER SPLASH APRON.
4. INLET, CURB CUT TYPE I CAN ALSO BE USED AS OVERFLOW.



STREAMBED COBBLES



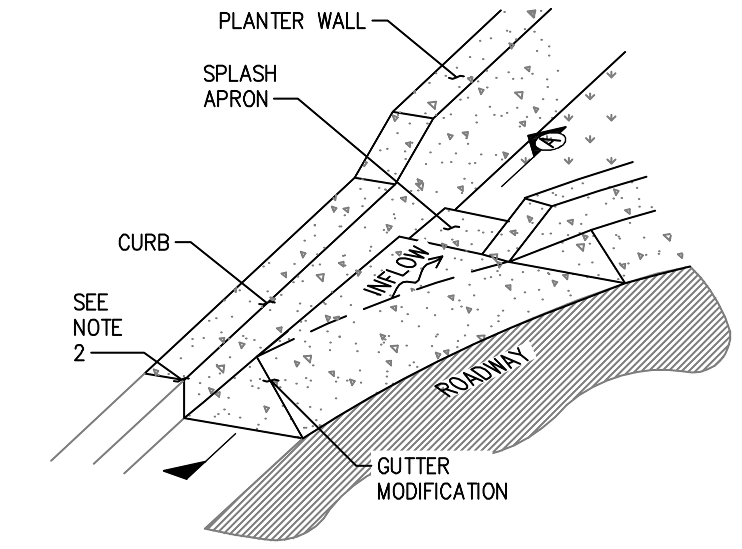
PLAN



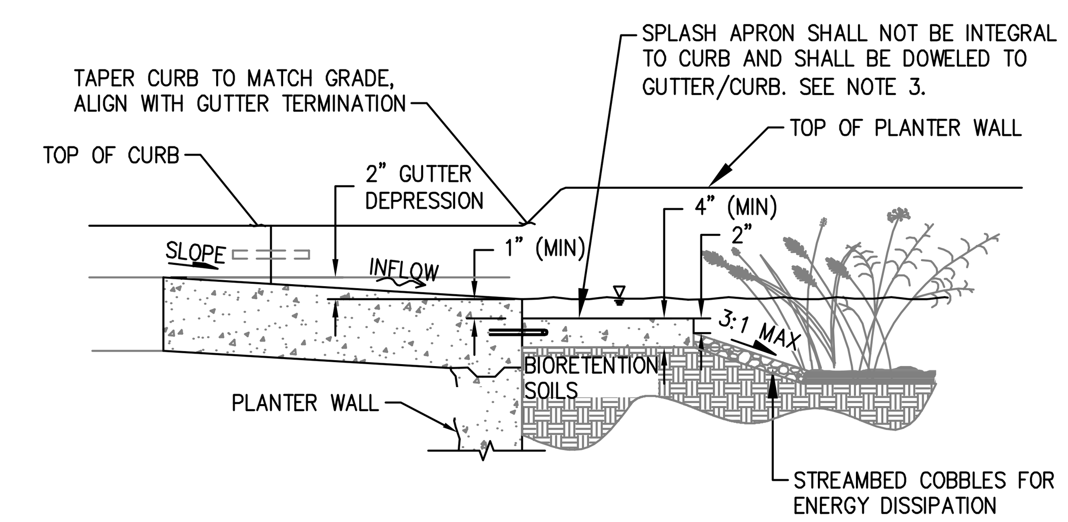
SECTION A

1 — INLET - CURB CUT TYPE I

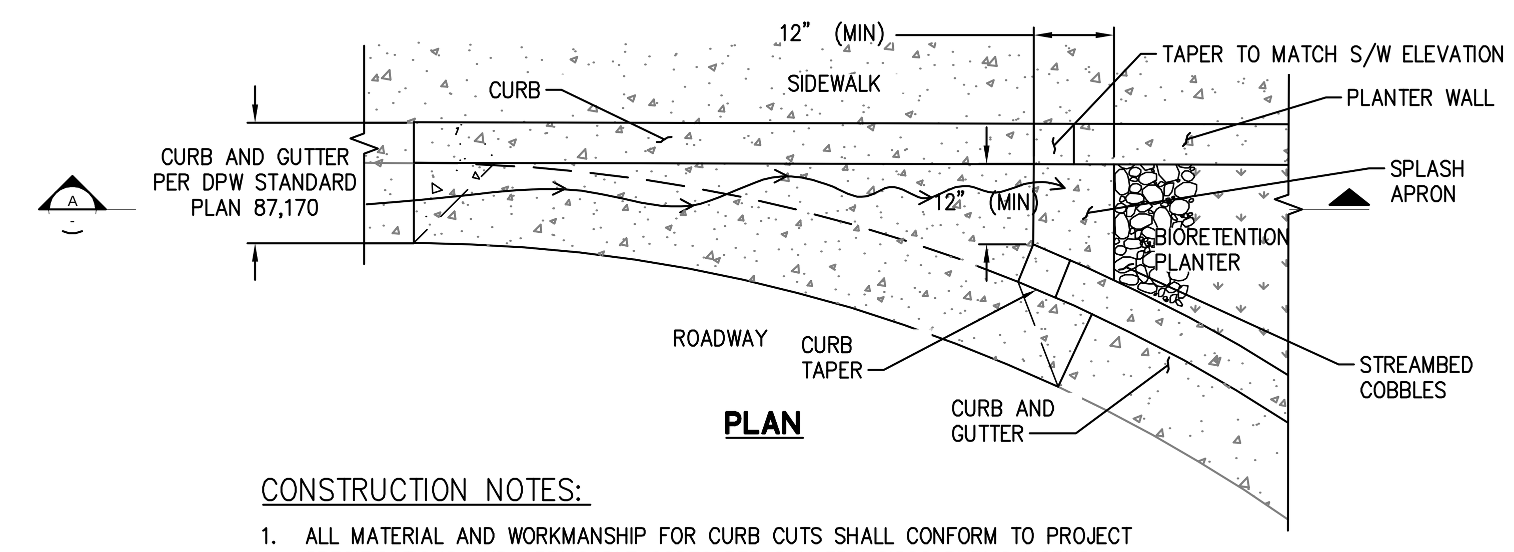
N.T.S.



ISOMETRIC



SECTION A



PLAN

CONSTRUCTION NOTES:

1. ALL MATERIAL AND WORKMANSHIP FOR CURB CUTS SHALL CONFORM TO PROJECT SPECIFICATIONS AND APPLICABLE CODES PER SAN FRANCISCO PUBLIC WORKS.
2. BOND NEW CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH EPOXY AND DOWEL CONNECTION.
3. DOWEL SPLASH APRONS TO CURB/GUTTER. PROVIDE A MINIMUM OF 3 DOWELS (ONE PER FACE OF SPLASH APRON/CURB OR SPLASH APRON/GUTTER JOINT).

2 — INLET - CURB CUT TYPE II

N.T.S.

255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

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ENGINEERS / SURVEYORS / PLANNERS

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

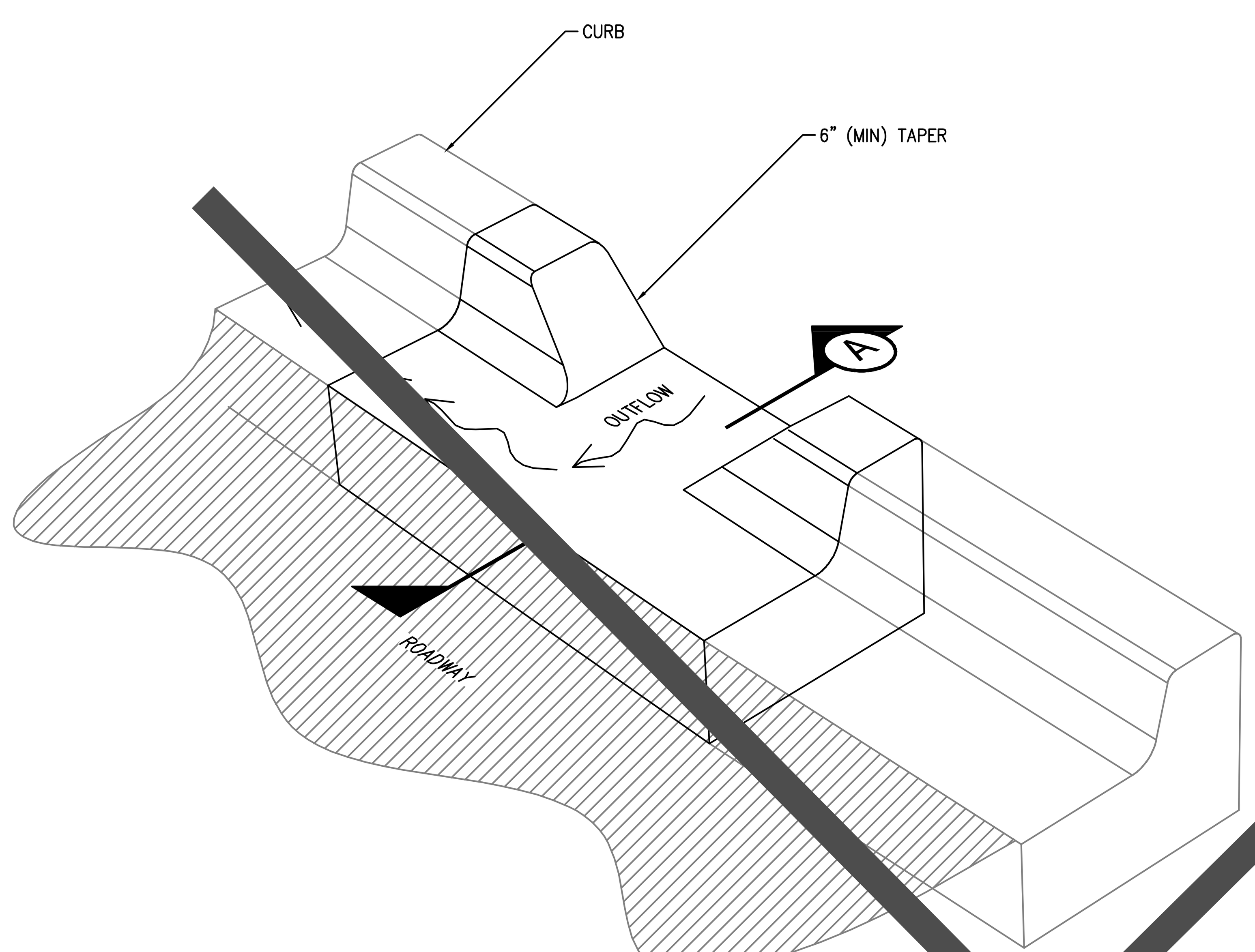
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.20

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.20)
PLOT TIME: 4-28-2017 4:21 PM PLOTTED BY: bwm

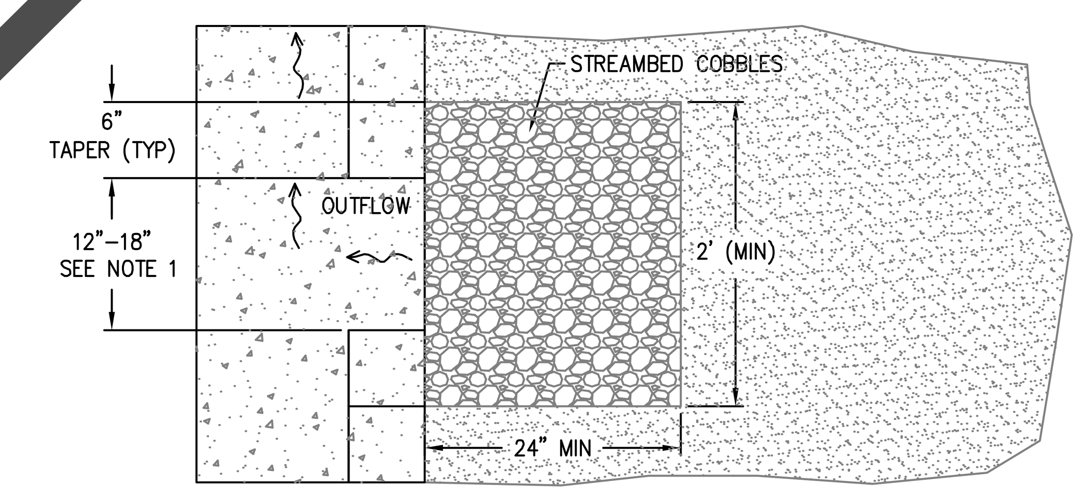
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



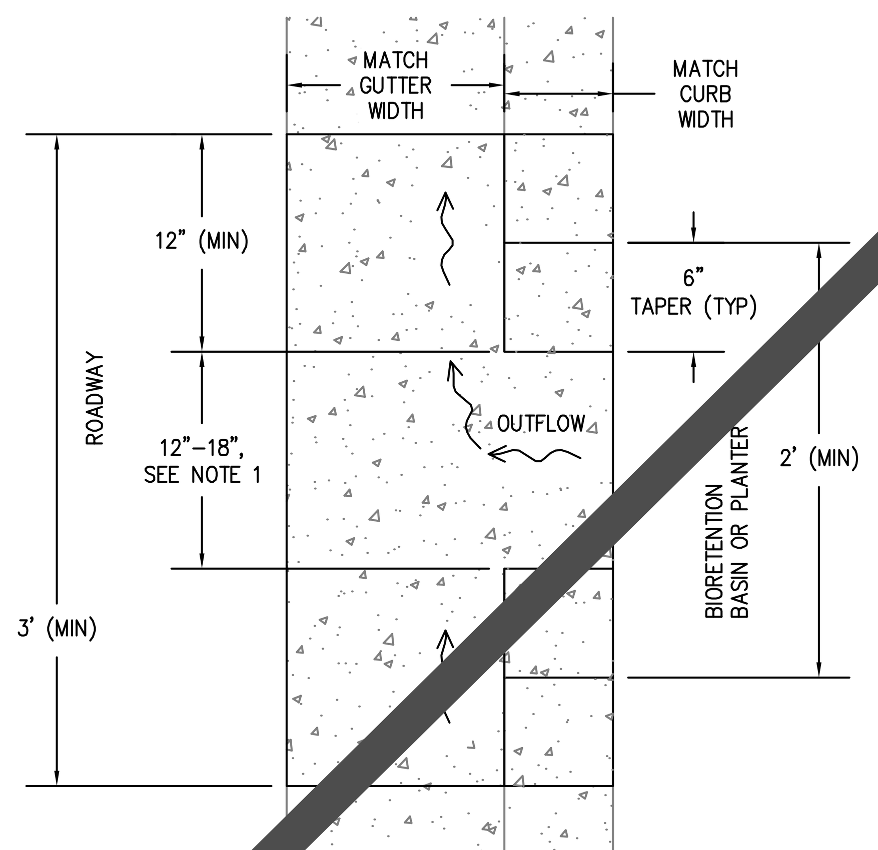
ISOMETRIC

CONSTRUCTION NOTES:

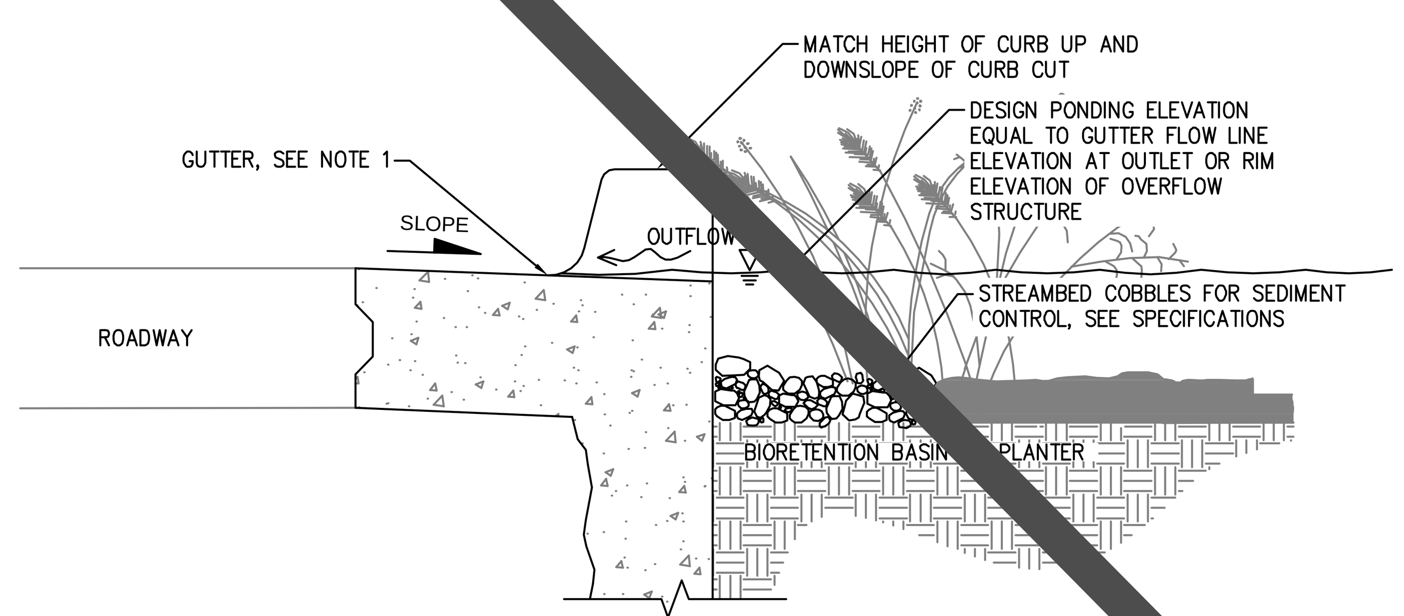
1. ALL MATERIAL AND WORKMANSHIP FOR CURB CUTS SHALL CONFORM TO SAN FRANCISCO STANDARD SPECIFICATIONS.
2. BOND NEW CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH EPOXY AND DOWEL CONNECTION.
3. MATCH GUTTER SLOPE UP AND DOWNSLOPE OF CURB CUT. SLOPE SIMILAR TO INLET DETAIL UNLESS MODIFYING GUTTER.



STREAMBED COBBLES



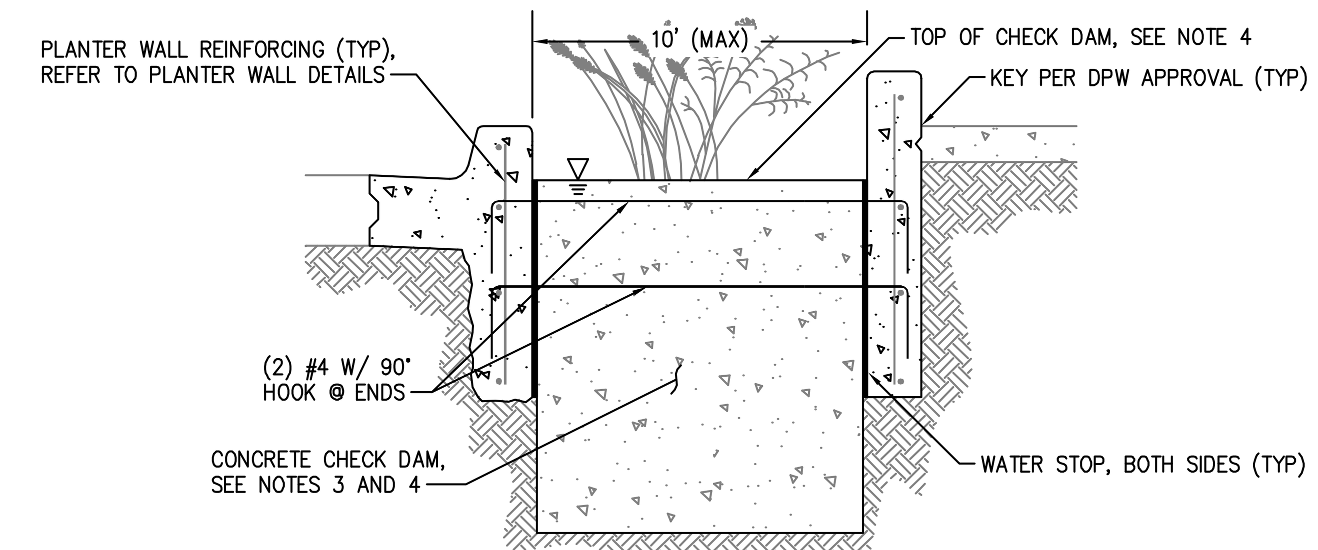
PLAN



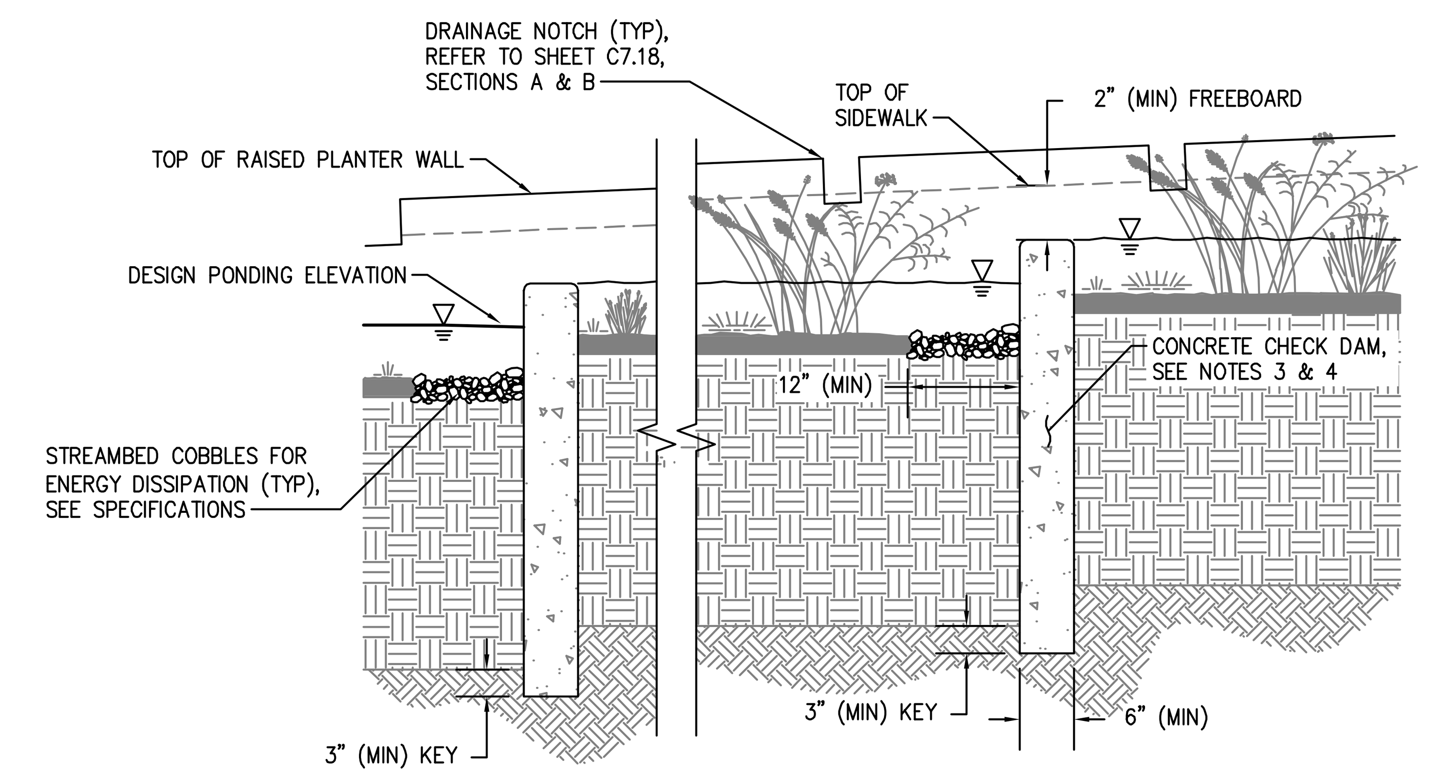
SECTION A

1 – OUTLET CURB CUT WITHOUT GUTTER MODIFICATION

N.T.S.



SECTION



PROFILE

CONSTRUCTION NOTES:

1. ALL MATERIAL AND WORKMANSHIP FOR CHECK DAM ASSEMBLY SHALL CONFORM TO PROJECT SPECIFICATIONS AND APPLICABLE CODES PER SAN FRANCISCO PUBLIC WORKS.
2. CONCRETE CHECK DAM SHALL BE CONTINUOUS (NO JOINTS) AND REINFORCED WITH #4 BAR, PLACED AT 18 INCHES ON CENTER, EACH WAY.
3. CONCRETE CHECK DAM SHALL MEET STRUCTURAL REQUIREMENTS FOR LATERAL BRACING WHEN USED AS LATERAL BRACING. REFER TO SHEET C7.18, DETAIL 3.
4. TOP OF CHECK DAM TO BE LEVEL WITH CREST ELEVATION MATCHING PONDING ELEVATION. SEE BMP GRADING DETAILS FOR LOCATION AND ELEVATIONS.

2 – CHECK DAMS

N.T.S.

BKF ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

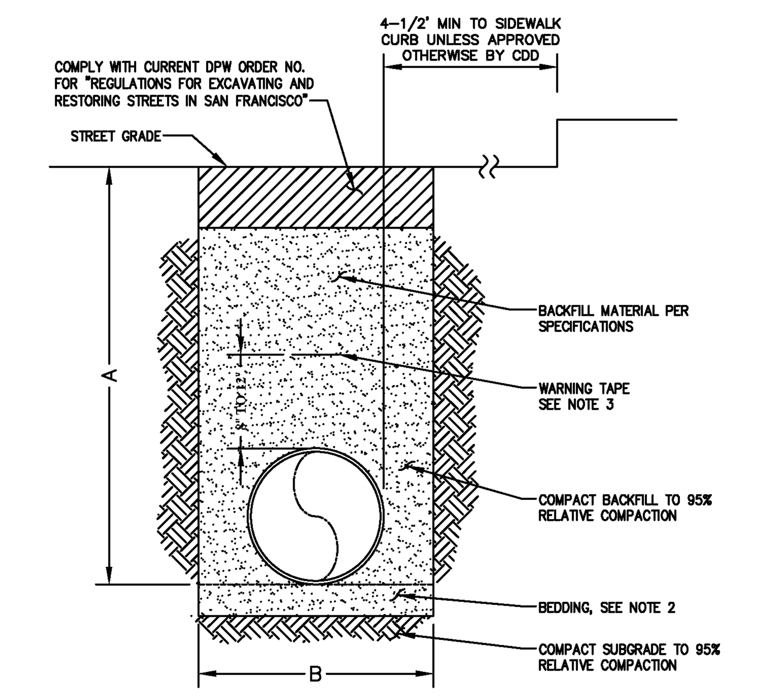
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.21

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.21)
PLOT TIME: 4-28-2017 4:21 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17



NOMINAL PIPE DIAMETER	MINIMUM TRENCH DEPTH A	MINIMUM TRENCH WIDTH B
1", 2"	24"	12"
4", 6", 8"	36"	18"
12"	44"	24"
16"	54"	30"
20"	54"	38"
24"	55"	44"

NOTES:
1) MINIMUM TRENCH DEPTHS AND TRENCH WIDTHS MUST BE ADHERED TO UNLESS APPROVED OTHERWISE BY THE CITY DISTRIBUTION DIVISION.
2) OVEREXCAVATING FOR BEDDING IS NOT REQUIRED UNLESS:
   A) BOTTOM OF TRENCH EXCAVATION IS IN BEDROCK, WHERE BEDDING SHALL BE 6" THICK.
   B) FOR 20" AND 24" DIA. PIPE, WHERE BEDDING SHALL BE 4" THICK.
   C) REQUIRED BY THE CITY REPRESENTATIVE.
   BEDDING SHALL BE THE SAME AS BACKFILL MATERIAL PER SPECIFICATIONS AND SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
3) WARNING TAPE SHALL BE 6" WIDE, BLUE COLORED FOR LPW AND PURPLE FOR RW, NON-DETECTABLE TYPE. INSCRIPTION MESSAGE, USING 1.5" MINIMUM HEIGHT BLACK TEXT, SPACED AT 3-FT MAXIMUM INTERVALS, SHALL READ "CAUTION: WATER LINE BELOW" FOR LPW AND "CAUTION: RECYCLED WATER LINE BELOW" FOR RW. WARNING TAPE SHALL OVERLAP 12" MINIMUM AT SPLICES.
4) TRENCH CONSTRUCTION SHALL CONFORM TO OSHA AND CAL OSHA.

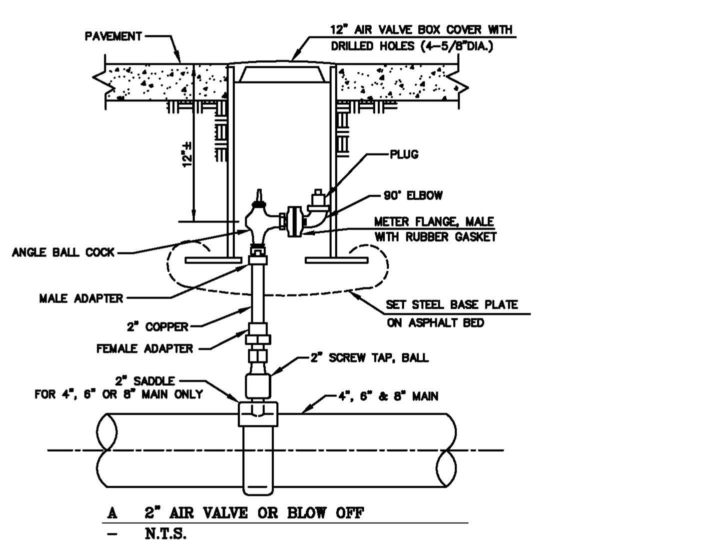
SUPERSEDES E-4969R

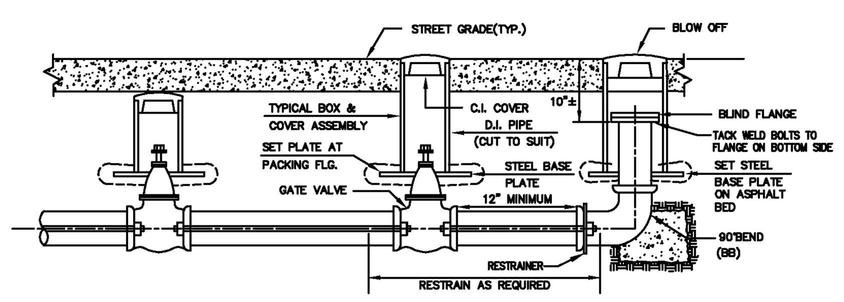
San Francisco Water Power Sewer — Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

STANDARD PLAN FOR DUCTILE IRON PIPE MAIN INSTALLATION
POTABLE & RECYLCED WATER PIPE TRENCH

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD-LP-002	3
SCALE N.T.S.			





G.V.	BOX
S.C.	6"
4"	6"
6"	6"
8"	8"
12"	8"
16"	8"

B.O.	BOX
2"	12"
4"	6"-6"
6"	6"-8"
8"	8"-12"

A 4", 6", AND 8" BLOW OFF
– N.T.S.

NOTES:
1) ALL MATERIALS SHOWN ON THE PLANS SHALL BE ASSEMBLED & INSTALLED BY THE CONTRACTOR EXCEPT WHERE NOTED OTHERWISE.
2) ALL FITTINGS 2" OR LESS SHALL BE BRASS UNLESS OTHERWISE SHOWN ON THE PLANS.
3) PLUGS FOR AIR VALVES & BLOW OFF ASSEMBLIES SHALL BE LUBRICATED WITH "NO OXIDE" GREASE & INSTALLED HAND TIGHT.

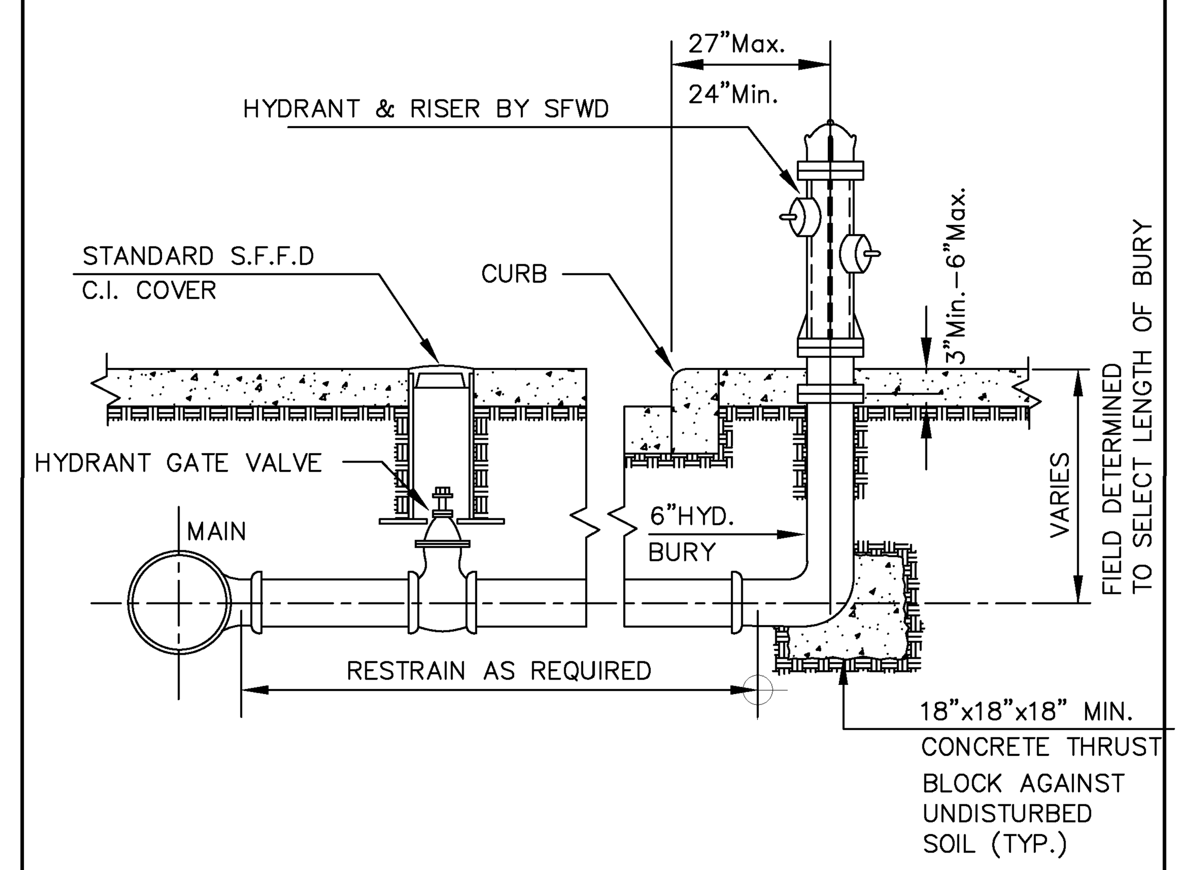
SUPERSEDES E-4969R

San Francisco Water Power Sewer — Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

STANDARD PLAN FOR DUCTILE IRON PIPE MAIN INSTALLATION
AIR VALVES AND BLOW OFFS

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD-LP-003	4
SCALE N.T.S.			



NOTES:
1) ALL MATERIALS SHOWN ON THE PLANS SHALL BE ASSEMBLED & INSTALLED BY THE CONTRACTOR EXCEPT WHERE NOTED OTHERWISE.

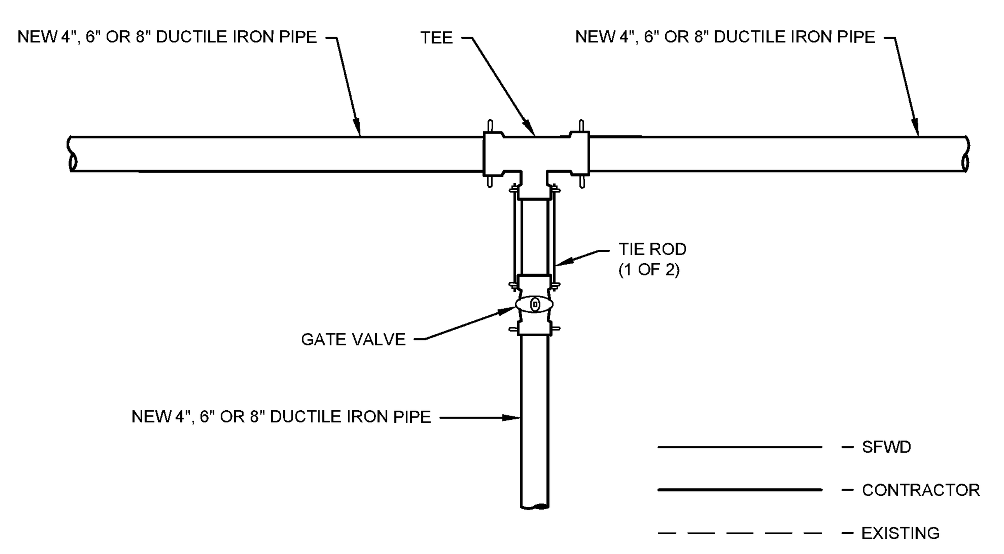
SUPERSEDES E-4969R

San Francisco Water Power Sewer — Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

STANDARD PLAN FOR DUCTILE IRON PIPE MAIN INSTALLATION
FIRE HYDRANT

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD-LP-004	5
SCALE N.T.S.			



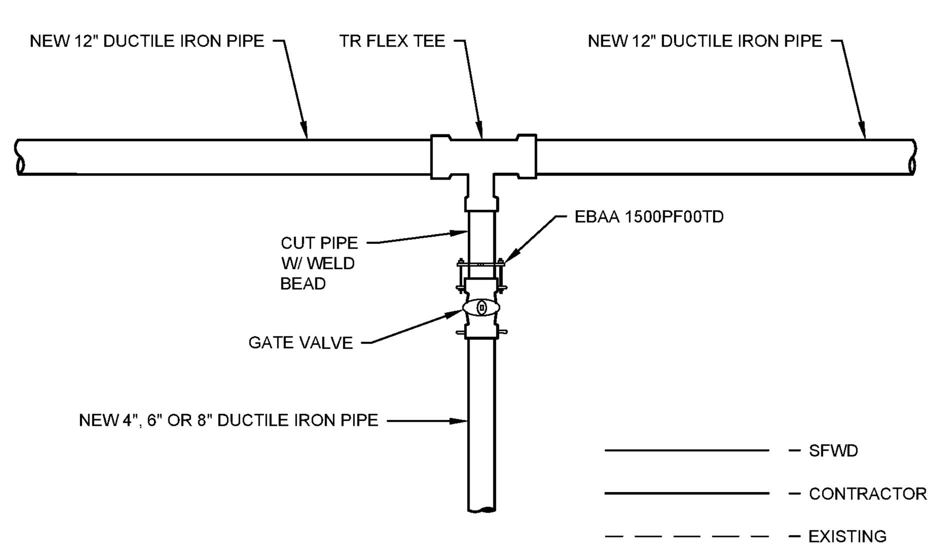
CO	MATERIALS	LAT-4x4	LAT-6x4	LAT-6x6	LAT-8x4	LAT-8x6	LAT-8x8
	TEE	4"x4" (1)	6"x4" (1)	6"x6" (1)	8"x4" (1)	8"x6" (1)	8"x8" (1)
	GATE VALVE	4" (1)	4" (1)	6" (1)	4" (1)	4" (1)	8" (1)
	BOX COVER	6" (1)	6" (1)	6" (1)	6" (1)	6" (1)	8" (1)
	BOX BASE PLATE	6" (1)	6" (1)	6" (1)	6" (1)	6" (1)	8" (1)
	FIELD LOK GASKET	4" (5)	4"(3), 6"(2)	6" (5)	4"(3), 8"(2)	6"(3), 8"(2)	8" (5)
	TIE ROD	5/8" (2)	5/8" (2)	5/8" (2)	5/8" (2)	5/8" (2)	3/4" (2)

San Francisco Water Power Sewer — Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

NEW LATERAL
FOR 4", 6" AND 8" BRANCH TO 4", 6" AND 8" MAIN

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD-LP-126	34
SCALE N.T.S.			



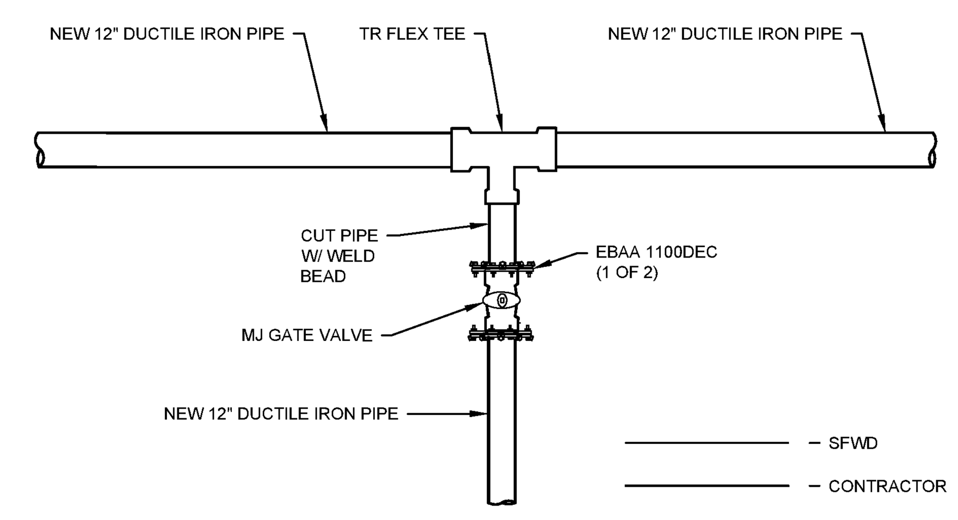
CONTRACTOR	MATERIALS	LAT-12x4	LAT-12x6	LAT-12x8
	TR FLEX TEE	12"x4" (1)	12"x6" (1)	12"x8" (1)
	GATE VALVE	4" (1)	6" (1)	8" (1)
	BOX COVER	6" (1)	6" (1)	8" (1)
	BOX BASE PLATE	6" (1)	6" (1)	8" (1)
	TYTON GASKET	12"(2), 4"(1)	12"(2), 6"(1)	12"(2), 8"(1)
	FIELD LOK GASKET	4" (2)	6"(2)	8" (2)
	EBAA 15PF00TD	4" (2)	6" (2)	8" (2)

San Francisco Water Power Sewer — Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

NEW LATERAL
FOR 4", 6" AND 8" BRANCH TO 12" MAIN

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD-LP-127	35
SCALE N.T.S.			



CONTRACTOR	MATERIALS	LAT-12x12
	TR FLEX TEE	12"x12" (1)
	MJ GATE VALVE	12" (1)
	BOX COVER	8" (1)
	BOX BASE PLATE	8" (1)
	TYTON GASKET	12" (3)
	EBAA 1100DEC	12" (2)

NOTES
1. GATE VALVE SHALL BE MECHANICAL JOINT WITH EBBA 1100DEC OR PUSH ON JOINT WITH FIELD LOK GASKET AS APPROVED BY CDD.

San Francisco Water Power Sewer — Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

NEW LATERAL
FOR 12" BRANCH TO 12" MAIN

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD-LP-128	36
SCALE N.T.S.			

BKF ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS
SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

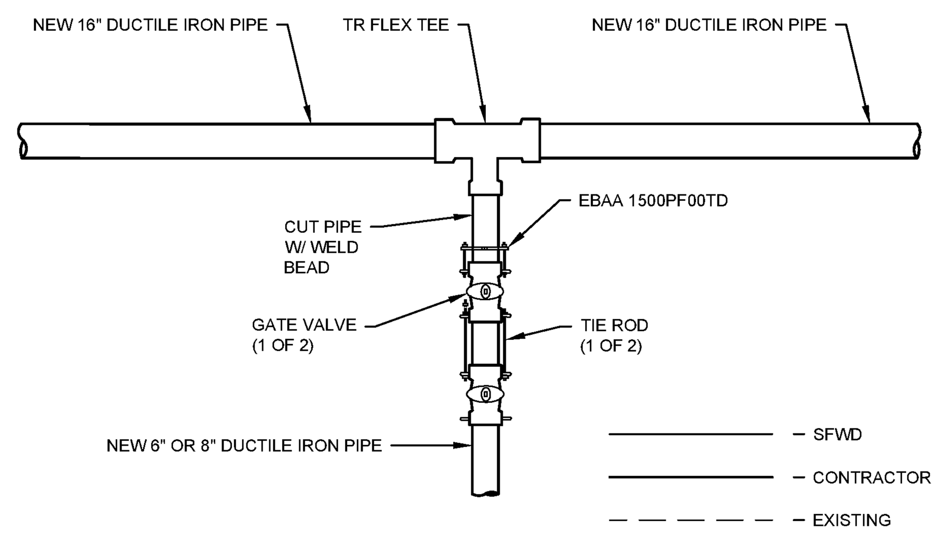
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.22

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.22)
PLOT TIME: 4-28-2017 4:21 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17



	MATERIALS	LAT-16x6	LAT-16x8
CONTRACTOR	TR FLEX TEE	16"x6" (1)	16"x8" (1)
	GATE VALVE	6" (2)	8" (2)
	BOX COVER	6" (2)	8" (2)
	BOX BASE PLATE	6" (2)	8" (2)
	TYTON GASKET	16"(2), 6"(1)	16"(2), 8"(1)
	FIELD LOK GASKET	6"(4)	8" (4)
	TIE ROD	5/8" (2)	3/4" (2)
	EBAA 15PF00TD	6" (1)	8" (1)

NOTES

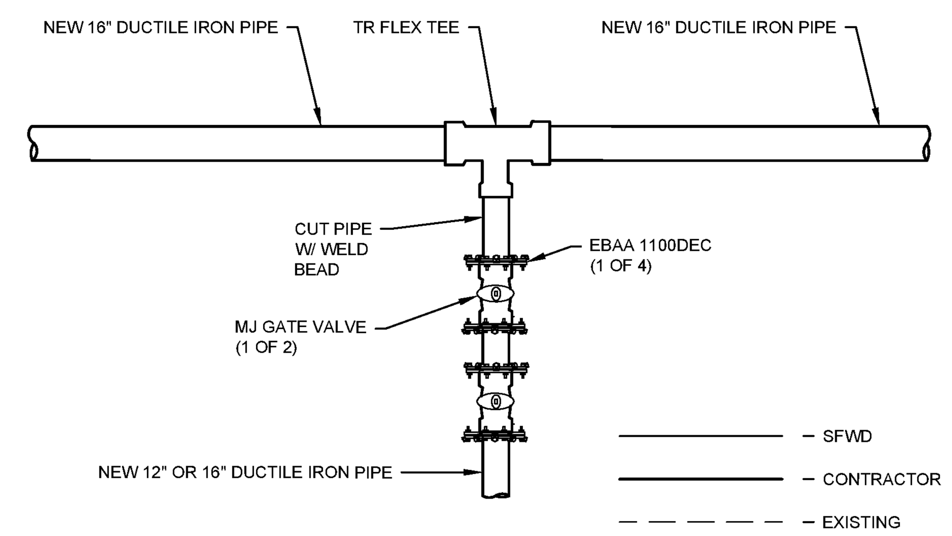
1. TWO GATE VALVES REQUIRED ONLY IF SHOWN ON CONTRACT DRAWINGS OR IF APPROVED BY CDD.

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

NEW LATERAL FOR 6" AND 8" BRANCH TO 16" MAIN

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD–LP–129	37
SCALE N.T.S.			



	MATERIALS	LAT-16x12	LAT-16x16
CONTRACTOR	TR FLEX TEE	16"x12" (1)	16"x16" (1)
	MJ GATE VALVE	12" (2)	16" (2)
	BOX COVER	8" (2)	8" (2)
	BOX BASE PLATE	8" (2)	8" (2)
	TYTON GASKET	16"(2), 12"(1)	16" (3)
	EBAA 1100DEC	12"(4)	16"(4)

NOTES

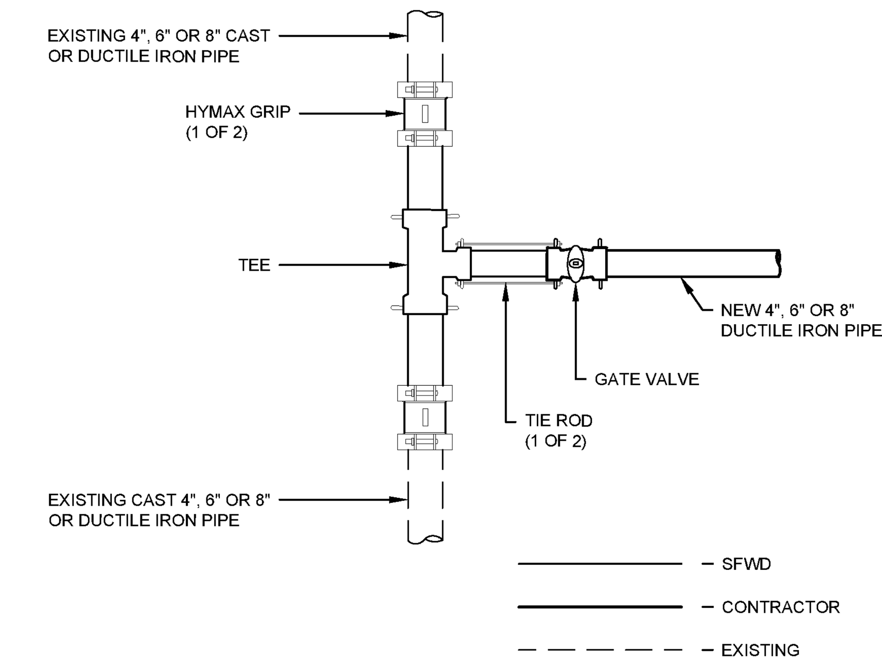
1. TWO GATE VALVES REQUIRED ONLY IF SHOWN ON CONTRACT DRAWINGS OR IF APPROVED BY CDD.
2. GATE VALVE SHALL BE MECHANICAL JOINT WITH EBBA 1100DEC OR PUSH ON JOINT WITH FIELD LOK GASKET AS APPROVED BY CDD.

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

NEW LATERAL FOR 12" AND 16" BRANCH TO 16" MAIN

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD–LP–130	38
SCALE N.T.S.			



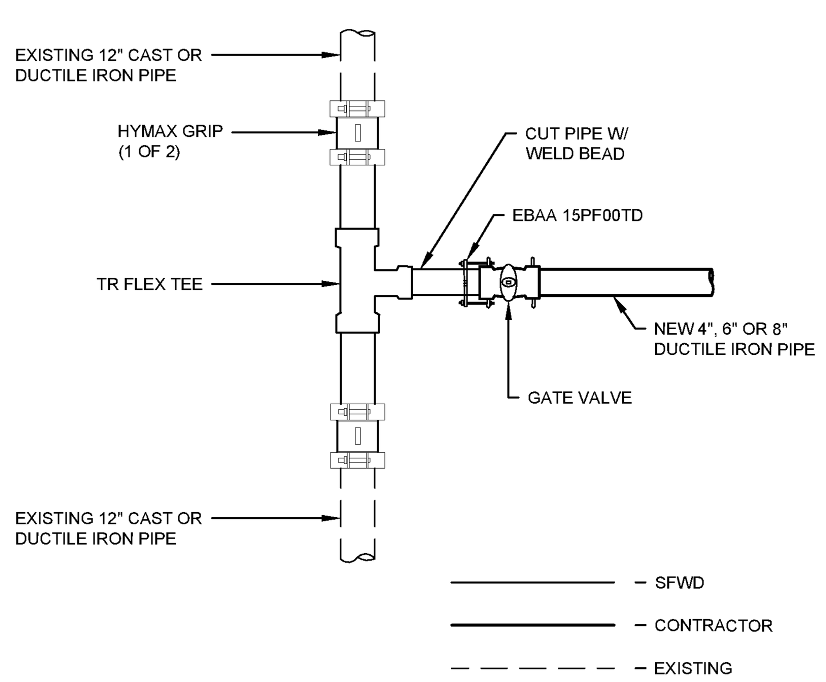
	MATERIALS	MC-4x4	MC-4x6	MC-6x6	MC-4x8	MC-6x8	MC-8x8
CONTRACTOR	GATE VALVE	4" (1)	4" (1)	6" (1)	4" (1)	6" (1)	8" (1)
	FIELD LOK GASKET	4" (1)	4" (1)	6" (1)	4" (1)	6" (1)	8" (1)
	BOX COVER	6" (1)	6" (1)	6" (1)	6" (1)	6" (1)	8" (1)
	BOX BASE PLATE	6" (1)	6" (1)	6" (1)	6" (1)	6" (1)	8" (1)
SFWD	TEE	4"x4" (1)	6"x4" (1)	6"x6" (1)	8"x4" (1)	8"x6" (1)	8"x8" (1)
	HYMAX GRIP	4" (2)	6" (2)	6" (2)	8" (2)	8" (2)	8" (2)
	FIELD LOK GASKET	4" (4)	6"(2) ,4"(2)	6" (4)	8"(2), 4"(2)	8"(2), 6"(2)	8" (4)
	TIE ROD	5/8" (2)	5/8" (2)	5/8" (2)	5/8" (2)	5/8" (2)	3/4" (2)

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

NEW LATERAL BRANCH TO EXISTING MAIN FOR 4", 6" AND 8" BRANCH TO 4", 6" AND 8" MAIN

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD–LP–131	39
SCALE N.T.S.			



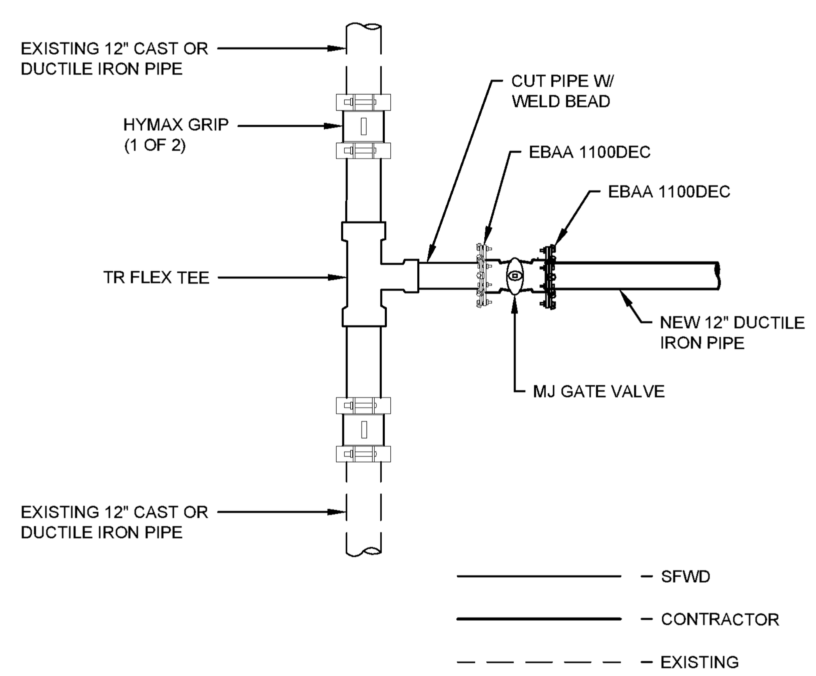
	MATERIALS	MC-4x12	MC-6x12	MC-8x12
CONTRACTOR	GATE VALVE	4" (1)	6" (1)	8" (1)
	FIELD LOK GASKET	4" (2)	6" (2)	8" (2)
	BOX COVER	6" (1)	6" (1)	8" (1)
	BOX BASE PLATE	6" (1)	6" (1)	8" (1)
SFWD	TR FLEX TEE	12"x4" (1)	12"x6" (1)	12"x8" (1)
	HYMAX GRIP	12" (2)	12" (2)	12" (2)
	TYTON GASKET	12"(2), 4"(1)	12"(2), 6"(1)	12"(2), 8"(1)
	EBAA 15PF00TD	4" (1)	6" (1)	8" (1)

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

NEW LATERAL BRANCH TO EXISTING MAIN FOR 4", 6" AND 8" BRANCH TO 12" MAIN

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD–LP–132	40
SCALE N.T.S.			



	MATERIALS	MC-12x12
CONTRACTOR	MJ GATE VALVE	8" (1)
	BOX COVER	8" (1)
	BOX BASE PLATE	8" (1)
	EBAA 1100DEC	12" (1)
SFWD	TR FLEX TEE	12"x12" (1)
	HYMAX GRIP	12" (2)
	TYTON GASKET	12" (3)
	EBAA 1100DEC	12" (1)

NOTES

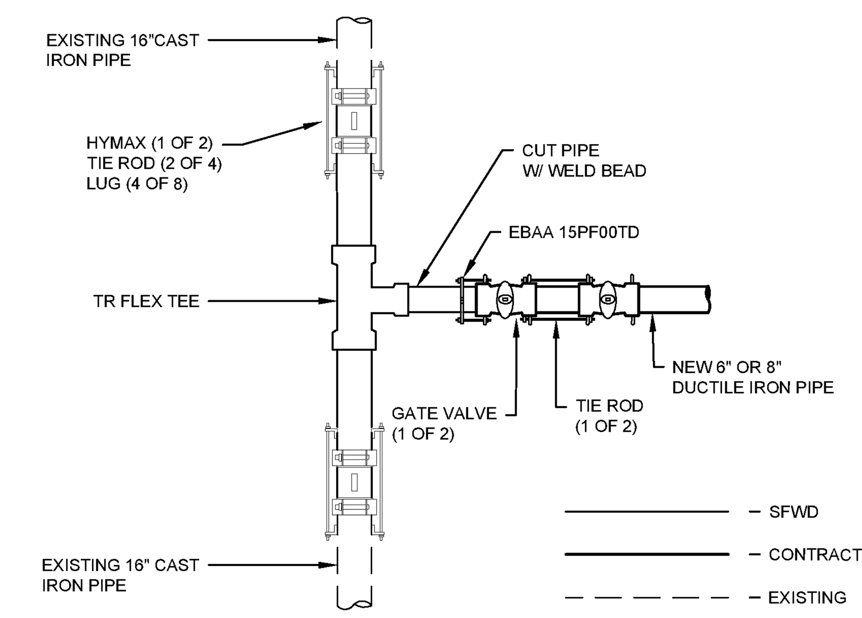
1. GATE VALVE SHALL BE MECHANICAL JOINT WITH EBBA 1100DEC OR PUSH ON JOINT WITH FIELD LOK GASKET AS APPROVED BY CDD.

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

NEW LATERAL BRANCH TO EXISTING MAIN FOR 12" BRANCH TO 12" MAIN

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD–LP–133	41
SCALE N.T.S.			



	MATERIALS	MC-6x16C	MC-8x16C
CONTRACTOR	GATE VALVE	6" (2)	8" (2)
	FIELD LOK GASKET	6" (3)	8" (3)
	TIE ROD	5/8" (2)	3/4" (2)
	BOX COVER	6" (1)	8" (1)
	BOX BASE PLATE	6" (1)	8" (1)
SFWD	TR FLEX TEE	16"x6" (1)	16"x8" (1)
	HYMAX	16" (2)	16" (2)
	TYTON GASKET	16"(2), 6"(1)	16"(2), 8"(1)
	FIELD LOK GASKET	6" (1)	8" (1)
	TIE ROD	1-1/4" (4)	1-1/4" (4)
	LUG	16" (8)	16" (8)
	EBAA 15PF00TD	6" (1)	8" (1)

NOTES

1. TWO GATE VALVES REQUIRED ONLY IF SHOWN ON CONTRACT DRAWINGS OR IF APPROVED BY CDD.

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

NEW LATERAL BRANCH TO EXISTING MAIN FOR 6" AND 8" BRANCH TO 16" CAST IRON MAIN

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD–LP–134	42
SCALE N.T.S.			

BKF ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DR
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REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

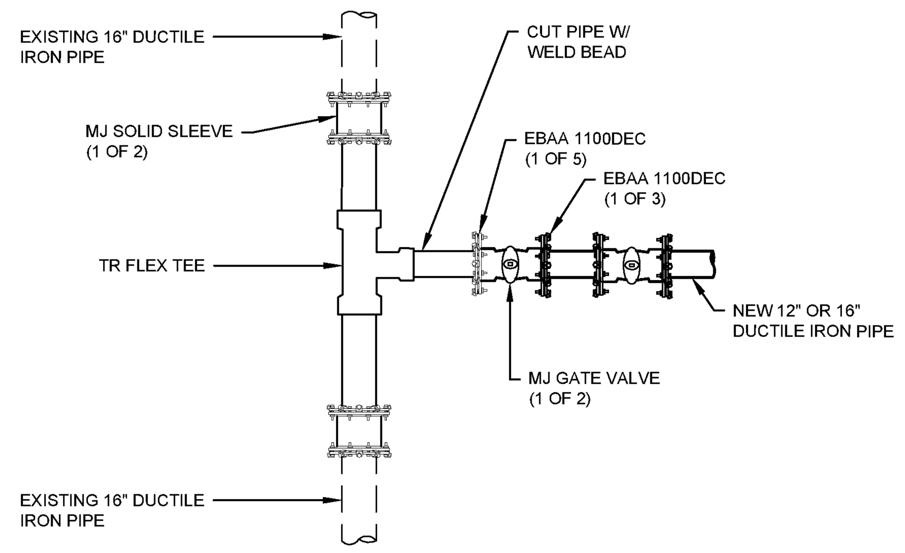
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.23

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.23)
PLOT TIME: 4-28-2017 4:21 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17



— SFWD
— CONTRACTOR
— EXISTING

	MATERIALS	MC-12x16D	MC-16x16D
CONTRACTOR	MJ GATE VALVE	12" (2)	16" (2)
	EBAA 1100DEC	12" (3)	16" (3)
	BOX COVER	6" (2)	6" (2)
	BOX BASE PLATE	6" (2)	6" (2)
SFWD	TR FLEX TEE	16"x12" (1)	16"x16" (1)
	MJ SOLID SLEEVE	16" (2)	16" (2)
	TYTON GASKET	16"(2), 12"(1)	16" (3)
	EBAA 1100DEC	16"(4), 12"(1)	16" (5)

NOTES

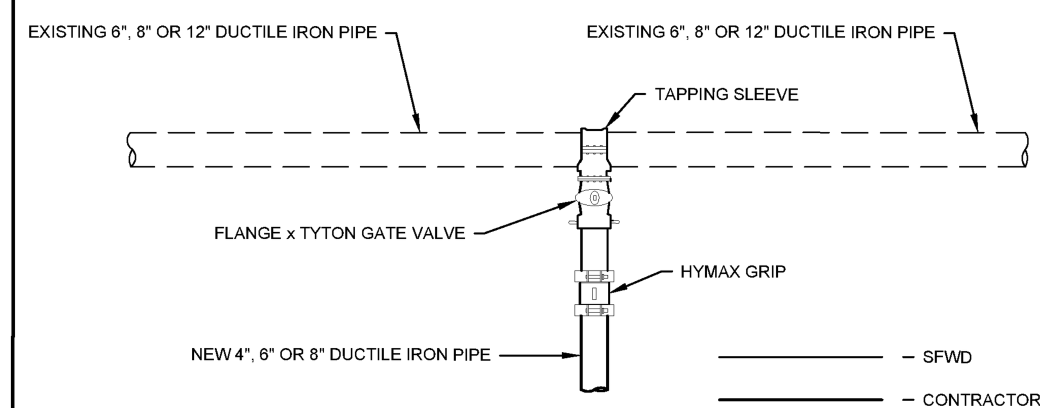
1. TWO GATE VALVES REQUIRED ONLY IF SHOWN ON CONTRACT DRAWINGS OR IF APPROVED BY CDD.
2. GATE VALVE SHALL BE MECHANICAL JOINT WITH EBBA 1100DEC OR PUSH ON JOINT WITH FIELD LOK GASKET AS APPROVED BY CDD.

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

NEW LATERAL BRANCH TO EXISTING MAIN
FOR 12" AND 16" BRANCH TO 16" DUCTILE IRON MAIN

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD–LP–135	43
SCALE N.T.S.			



— SFWD
— CONTRACTOR
— EXISTING

	MATERIALS	MCT-4x6	MCT-4x8	MCT-6x8
SFWD	TAPPING SLEEVE	6"x4" (1)	8"x4" (1)	8"x6" (1)
	FLANGExTYTON GATE	4" (1)	4" (1)	6" (1)
	BOX COVER	6" (1)	6" (1)	6" (1)
	BOX BASE PLATE	6" (1)	6" (1)	6" (1)
	FIELD LOK GASKET	4" (1)	4" (1)	6" (1)
	HYMAX GRIP	4" (1)	4" (1)	6" (1)

San Francisco Water Power Sewer
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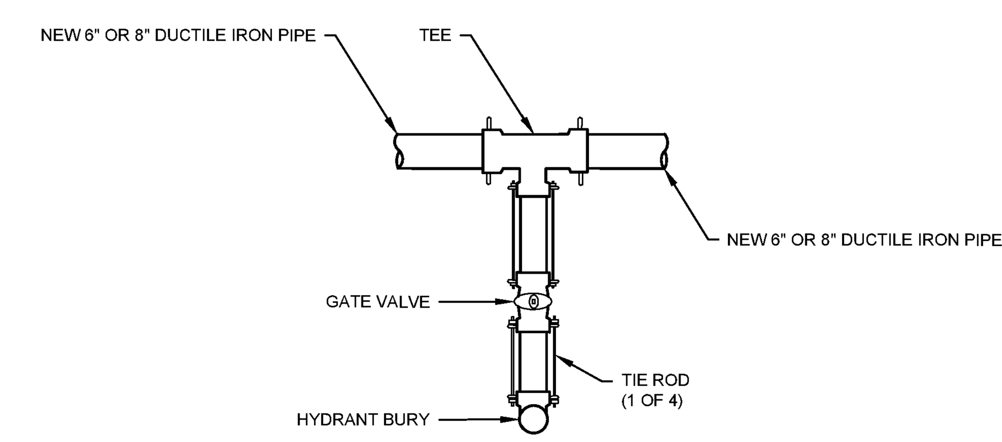
WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

NEW LATERAL BRANCH TAP
TO EXISTING MAIN FOR 4", 6" AND 8"
BRANCH TAP TO 6", 8" AND 12" MAIN

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD–LP–136	44
SCALE N.T.S.			



— SFWD
— CONTRACTOR
— EXISTING

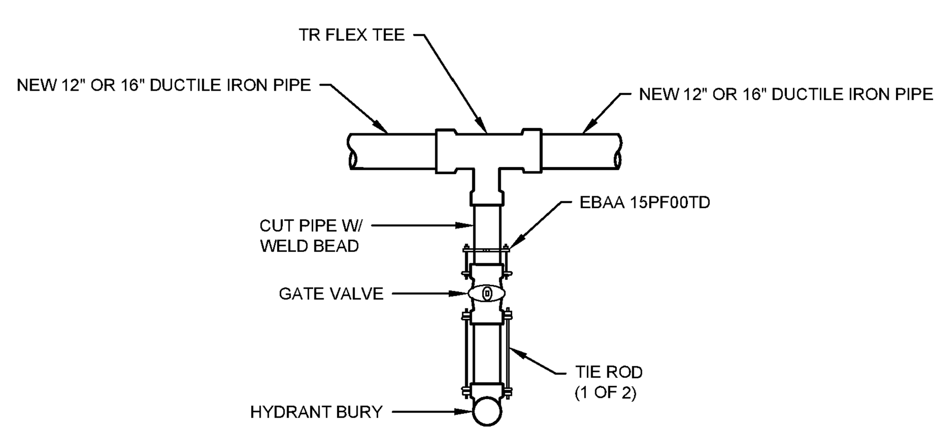
	MATERIALS	NH-6	NH-8
CONTRACTOR	TEE	6"x6" (1)	8"x6" (1)
	GATE VALVE	6" (1)	6" (1)
	HYRANT BURY	6" (1)	6" (1)
	BOX COVER	6" (1)	6" (1)
	BOX BASE PLATE	6" (1)	6" (1)
	FIELD LOK GASKET	6" (6)	6"(4), 8"(2)
	TIE ROD	5/8" (4)	5/8" (4)

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

NEW HYDRANT
FOR 6" AND 8" PIPE

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD–LP–146	54
SCALE N.T.S.			



— SFWD
— CONTRACTOR
— EXISTING

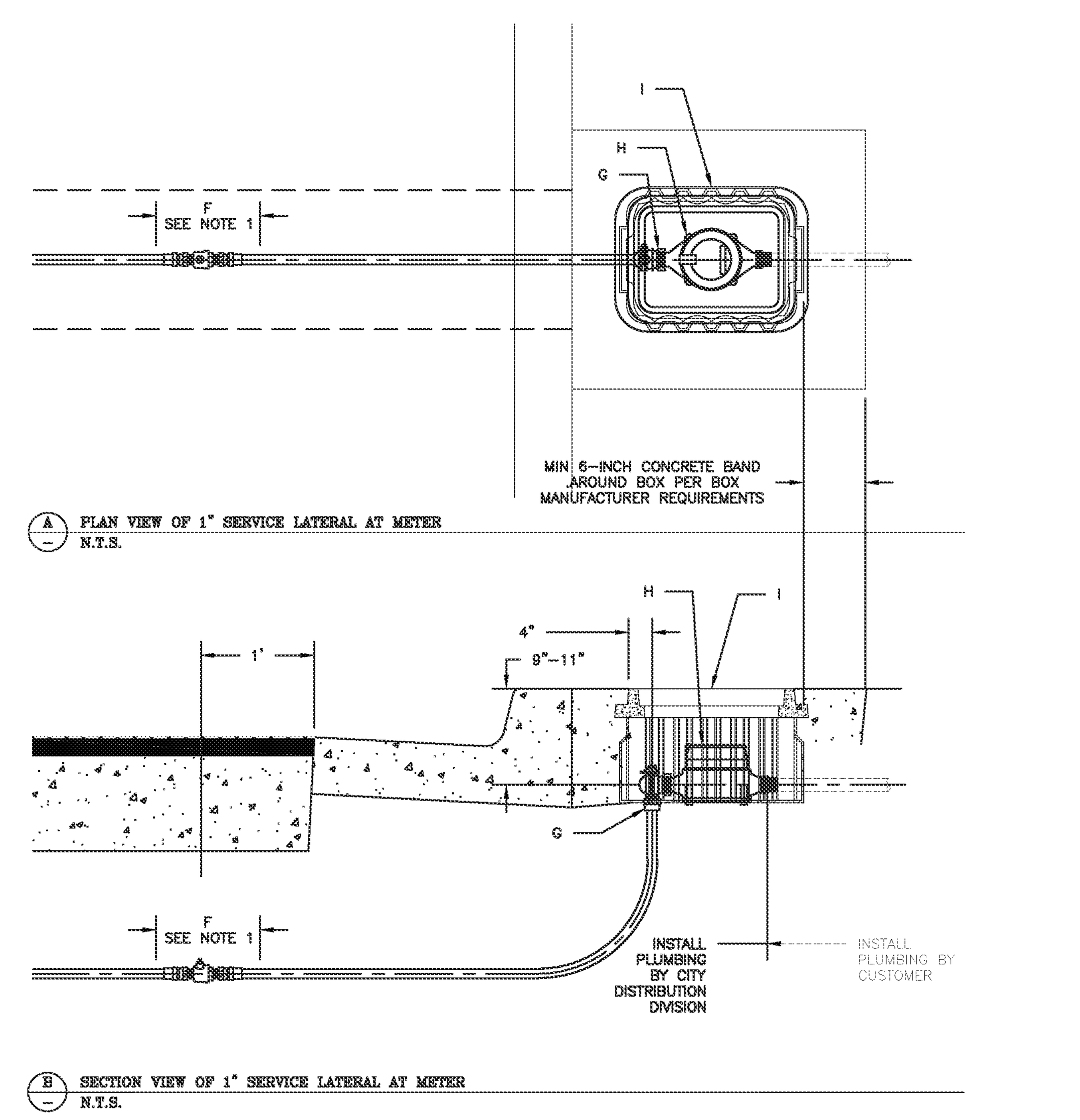
	MATERIALS	NH-12	NH-16
CONTRACTOR	TR FLEX TEE	12"x6" (1)	16"x6" (1)
	GATE VALVE	6" (1)	6" (1)
	HYRANT BURY	6" (1)	6" (1)
	BOX COVER	6" (1)	6" (1)
	BOX BASE PLATE	6" (1)	6" (1)
	TYTON GASKET	12"(2), 6"(1)	16"(2), 6"(1)
	FIELD LOK GASKET	6" (3)	6"(3)
	EBAA 15PF00TD	6" (1)	6" (1)
	TIE ROD	5/8" (2)	5/8" (2)

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

NEW HYDRANT
FOR 12" AND 16" PIPE

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD–LP–147	55
SCALE N.T.S.			



B SECTION VIEW OF 1" SERVICE LATERAL AT METER
N.T.S.

NOTES:

1. FOR LONG SERVICE LATERALS ONLY (MAIN ON FAR SIDE OF STREET WITH RESPECT TO CUSTOMER), INSTALL BURIED LINE VALVE JUST OUTSIDE OF LIP OF GUTTER.

2. CUSTOMERS REQUIRING METER SET INSTALLATIONS SHALL LEAVE ENOUGH EXCAVATED SPACE IN SIDEWALK AREA TO ALLOW FOR MEASUREMENT OF METER SET ASSEMBLY AND TO PLACE THE METER ASSEMBLY IN THE GROUND WITH APPROPRIATELY–SIZED METER BOX.

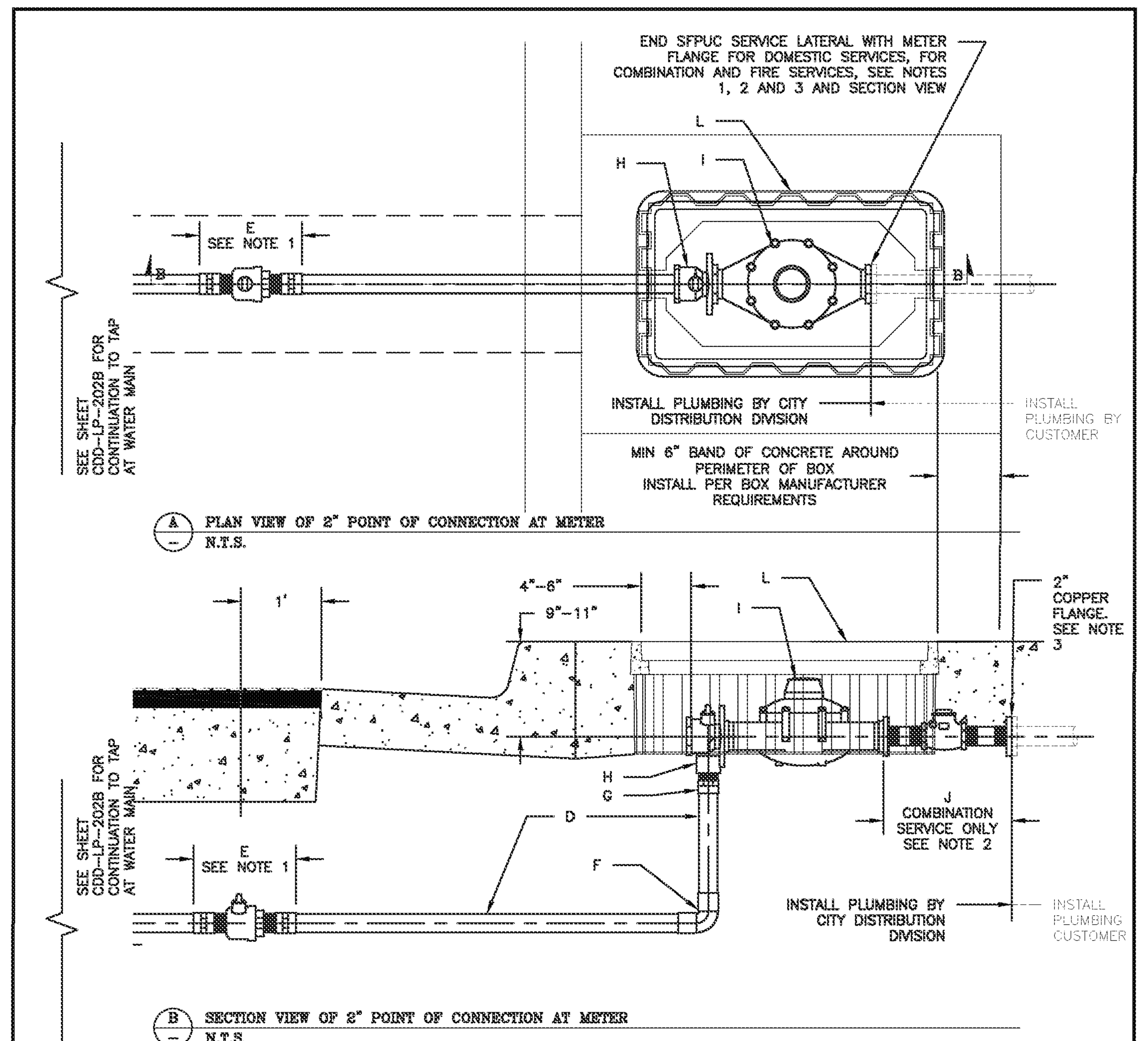
SUPERSEDES A–1240–2B

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

WATER SERVICES
1–INCH SERVICE LATERAL CONNECTION AT
METER

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD–LP–201C	61
SCALE N.T.S.			



B SECTION VIEW OF 2" POINT OF CONNECTION AT METER
N.T.S.

NOTES:

1. FOR LONG SERVICE LATERALS ONLY (MAIN ON FAR SIDE OF STREET WITH RESPECT TO CUSTOMER), INSTALL BURIED LINE VALVE JUST OUTSIDE OF LIP OF GUTTER.

2. FOR 2–INCH COMBINATION DOMESTIC/FIRE SERVICES, A CHECK VALVE IS INSTALLED DOWNSTREAM OF THE WATER METER.

3. CUSTOMER FLANGE SHALL NOT BE INSTALLED UNTIL AFTER CITY LATERAL IS INSTALLED TO CITY FLANGE.

4. CUSTOMERS REQUIRING METER SET INSTALLATIONS SHALL LEAVE ENOUGH EXCAVATED SPACE IN SIDEWALK AREA TO ALLOW FOR MEASUREMENT OF METER SET ASSEMBLY AND TO PLACE THE METER ASSEMBLY IN THE GROUND WITH APPROPRIATELY–SIZED METER BOX.

SUPERSEDES A–1240–2B

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

WATER SERVICES
2–INCH SERVICE LATERAL CONNECTION AT METER
(DOMESTIC AND COMBINATION SERVICE)

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD–LP–202C	64
SCALE N.T.S.			

255 SHORELINE DR
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REDWOOD CITY, CA 94065
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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

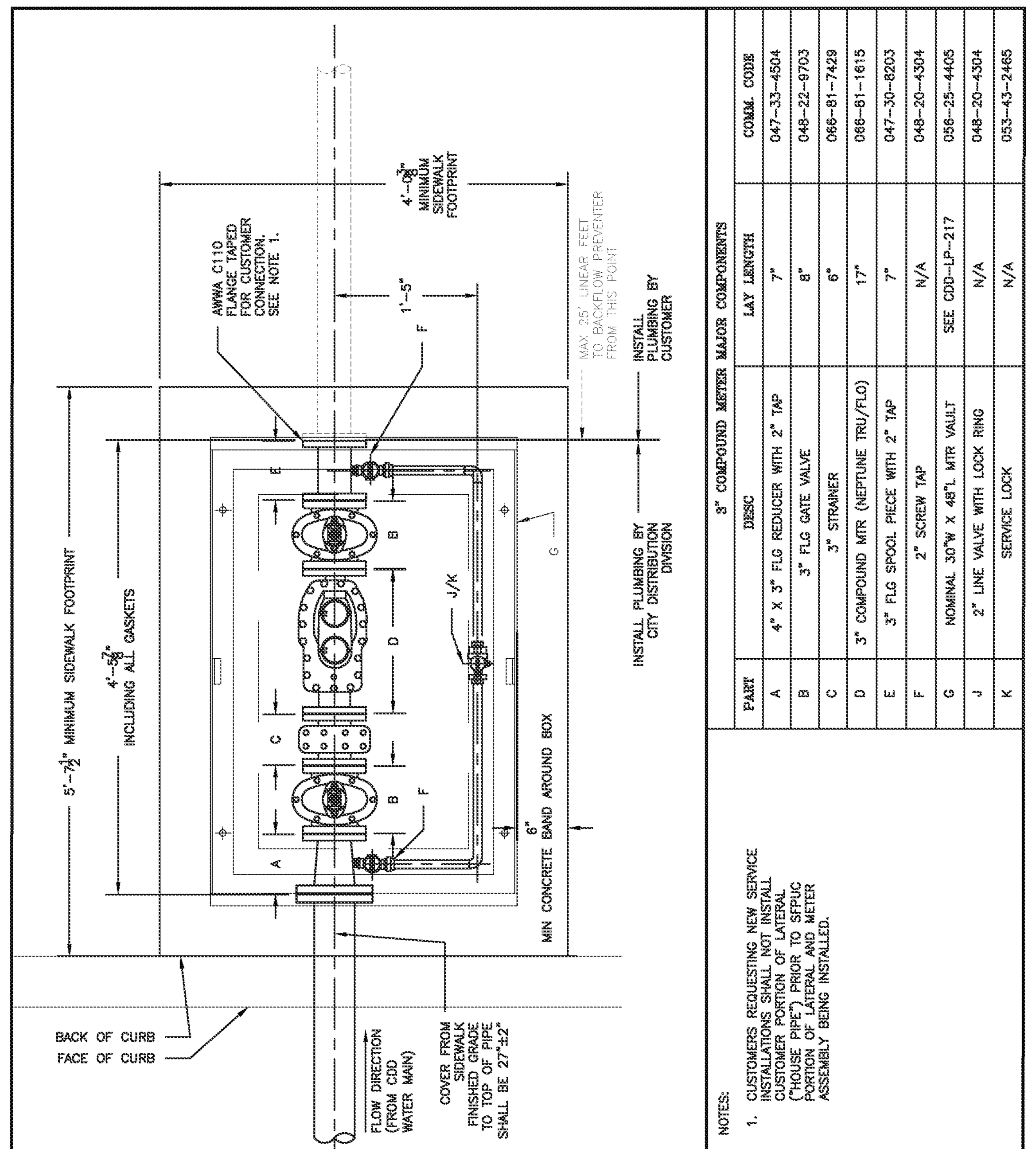
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.24

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.24)
PLOT TIME: 4-28-2017 4:21 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

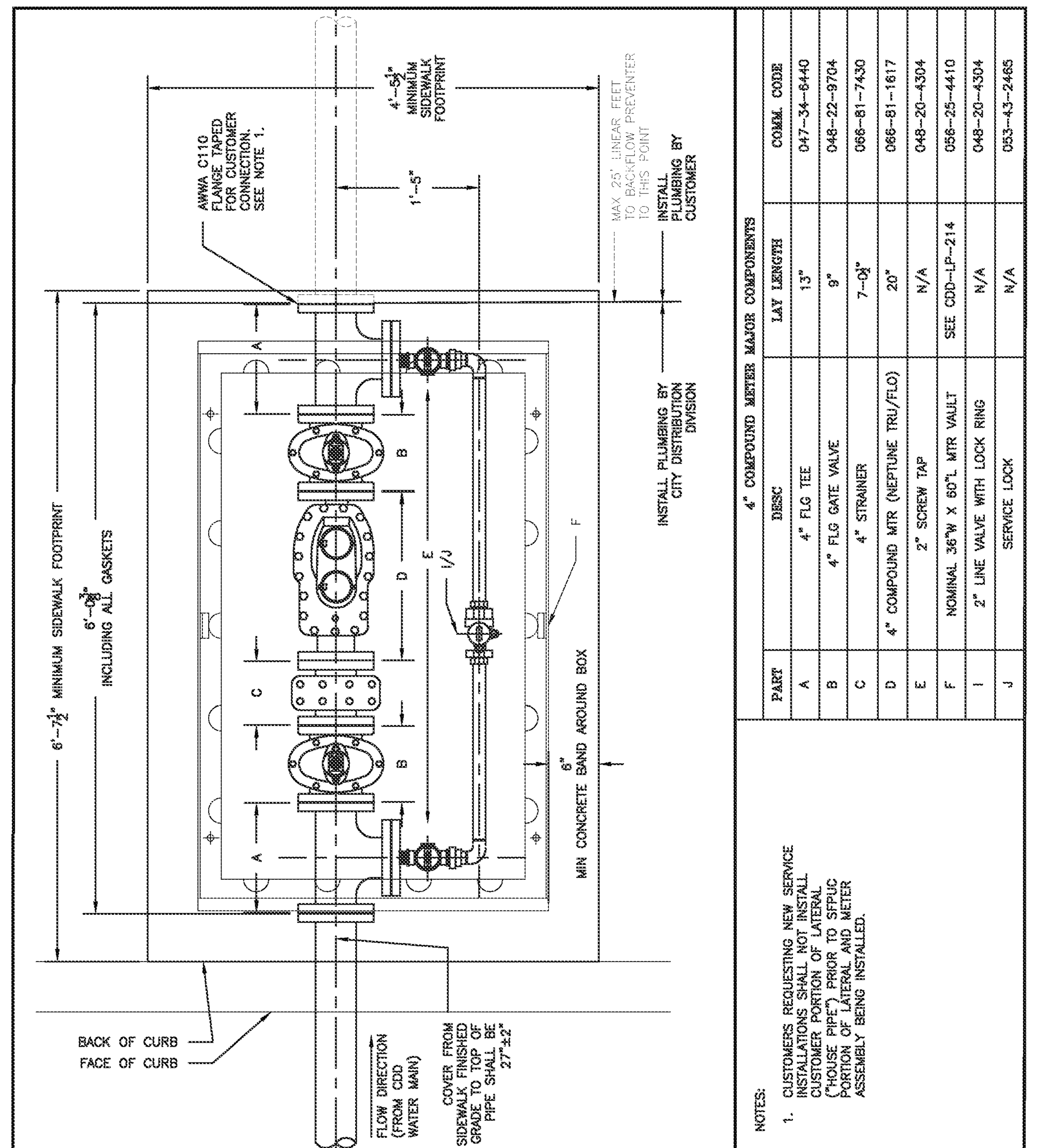


WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

San Francisco Water Power Sewer

WATER SERVICES
3-INCH COMPOUND METER ASSEMBLY
(STANDARD INSTALLATION)

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD-LP-203D	69
SCALE N.T.S.			

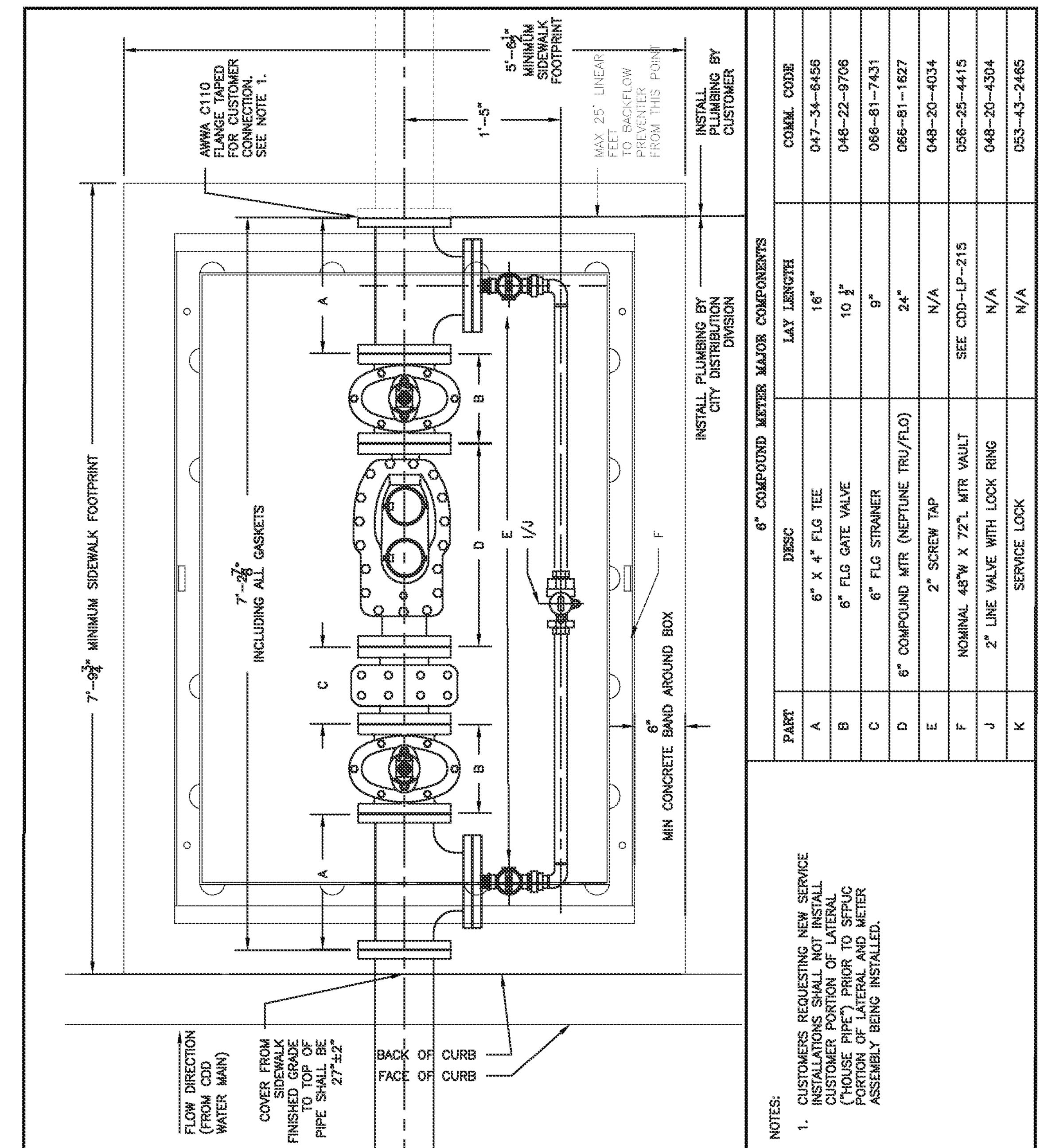


WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

San Francisco Water Power Sewer

WATER SERVICES
4-INCH COMPOUND METER ASSEMBLY
(STANDARD INSTALLATION)

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD-LP-203E	71
SCALE N.T.S.			

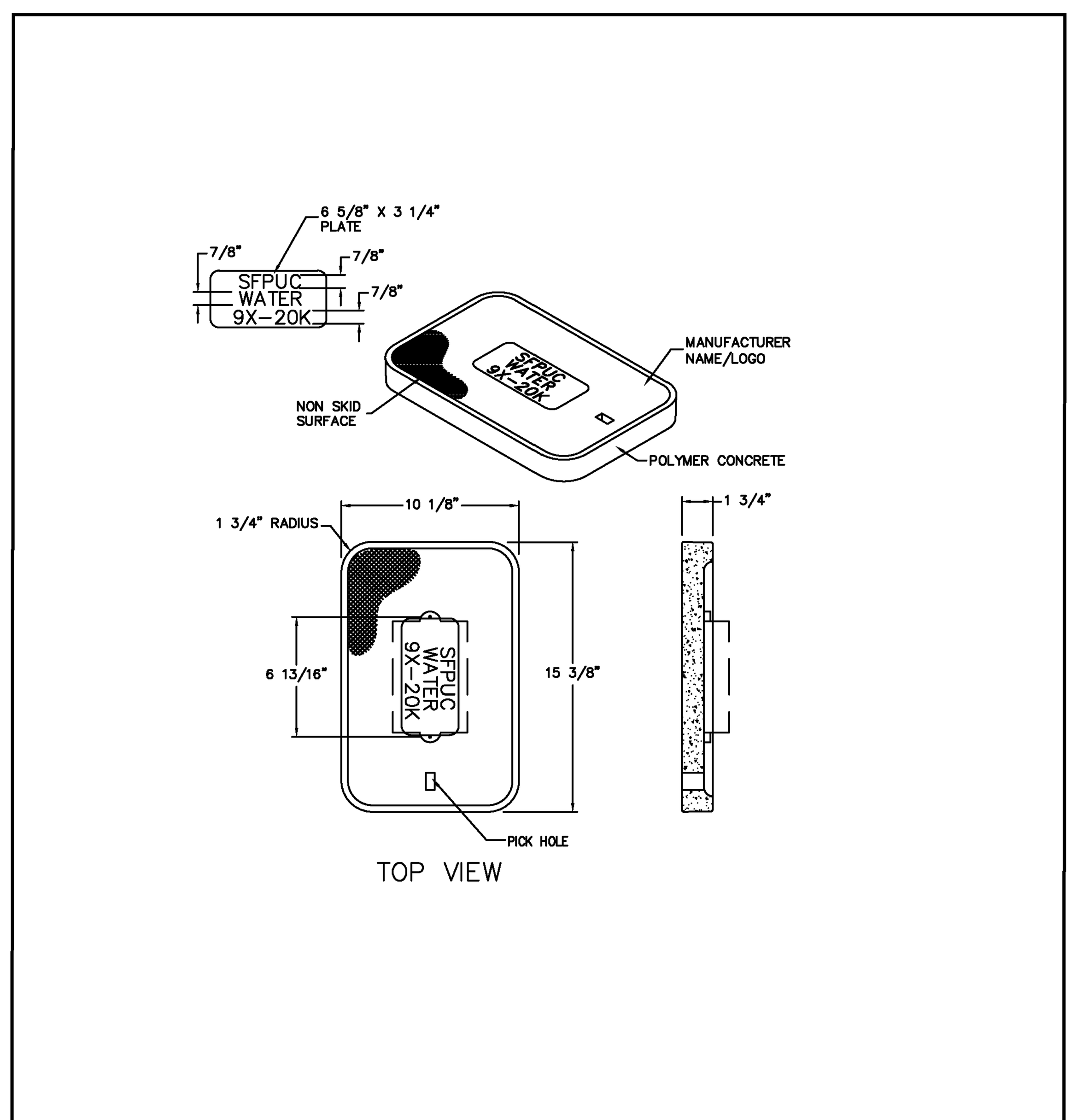


WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

San Francisco Water Power Sewer

WATER SERVICES
6-INCH COMPOUND METER ASSEMBLY
(STANDARD INSTALLATION)

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD-LP-203F	73
SCALE N.T.S.			



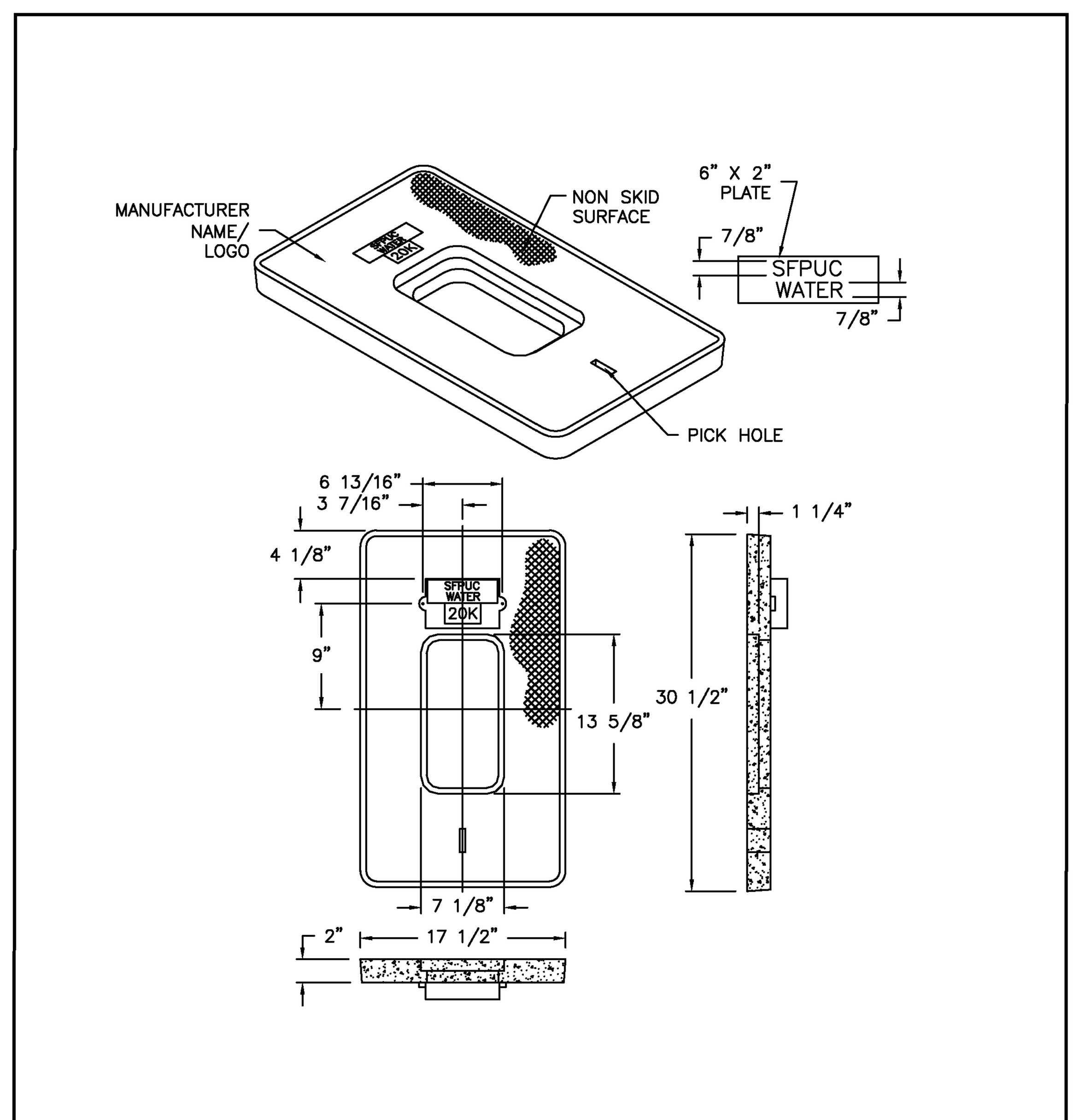
ARMORCAST A6-1922T-9X-SFPUC OR APPROVED EQUIVALENT
FOR REPLACEMENT ONLY – NOT FOR NEW INSTALLATION

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

San Francisco Water Power Sewer

WATER SERVICES
10"X15" POLYMER CONCRETE METER BOX COVER 9X

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD-LP-209	83
SCALE N.T.S.			



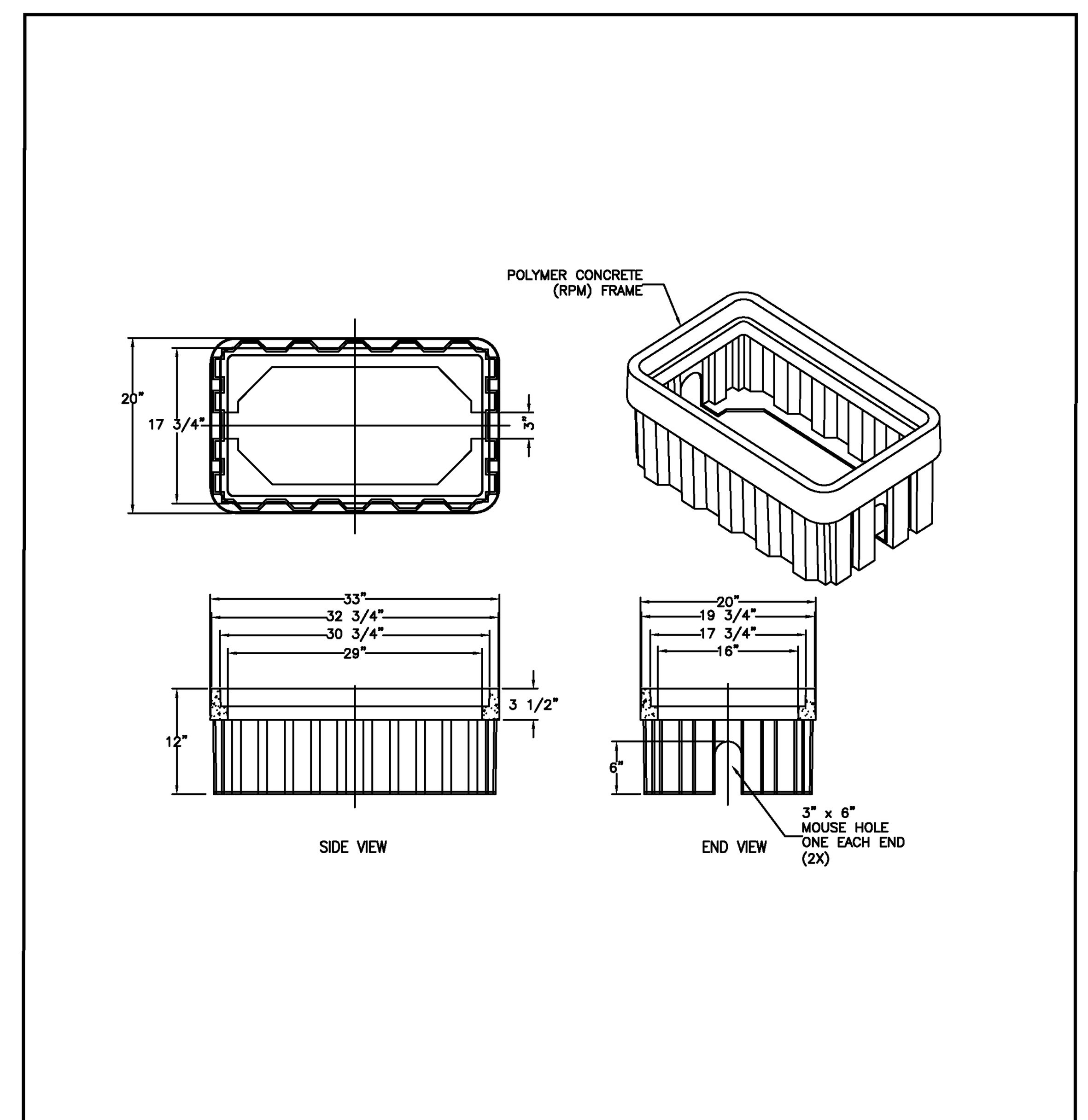
ARMORCAST A6-1947TD-EB-SFPUC OR APPROVED EQUIVALENT

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

San Francisco Water Power Sewer

WATER SERVICES
17"X30" POLYMER CONCRETE METER BOX COVER
WITH 7"X13" READ LID OPENING

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD-LP-210	84
SCALE N.T.S.			



ARMORCAST P6-1534X12-SFWD OR APPROVED EQUIVALENT

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

San Francisco Water Power Sewer

WATER SERVICES
17"X30"X12" METER BOX

DATE	REV.	DRAWING NO.	SHEET
10/1/2016	0	CDD-LP-212	86
SCALE N.T.S.			

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PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

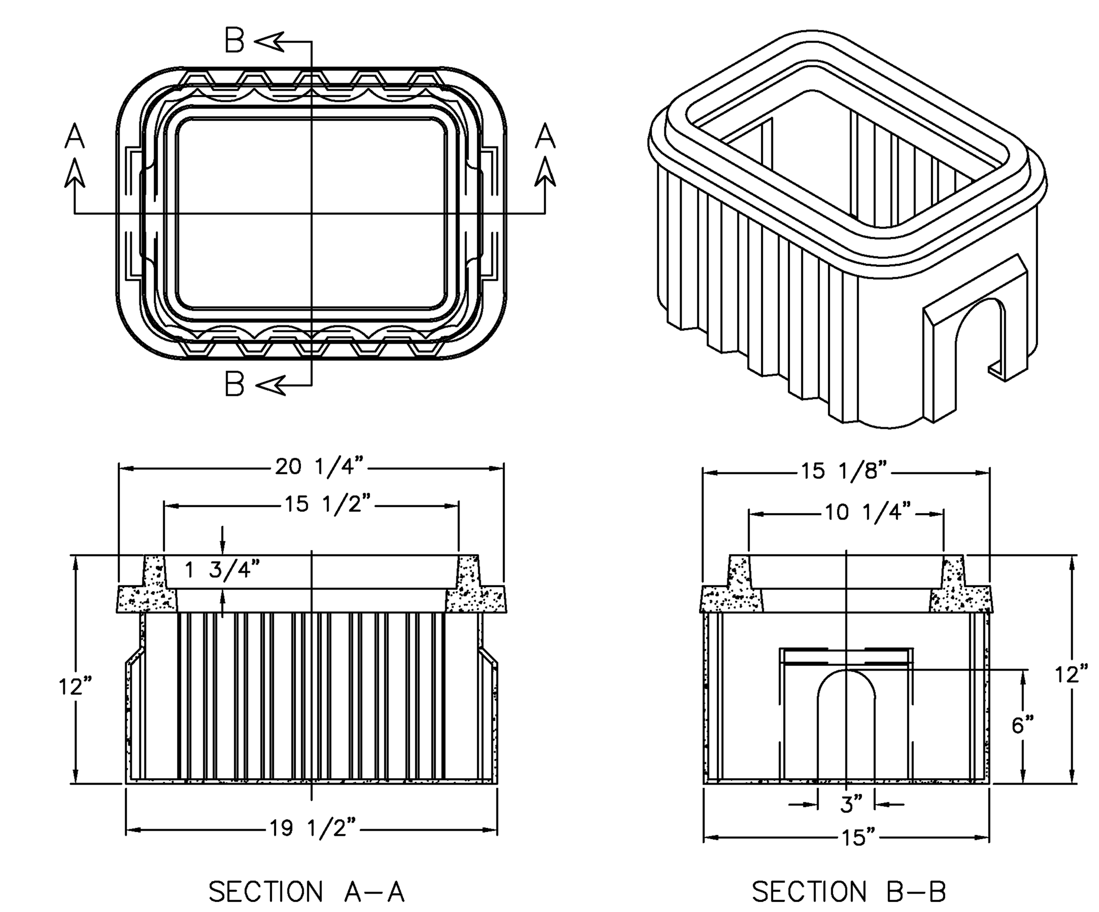
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.25

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.25)
PLOT TIME: 4-28-2017 4:21 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17



ARMORCAST P6-1921X12-SFWD OR APPROVED EQUIVALENT

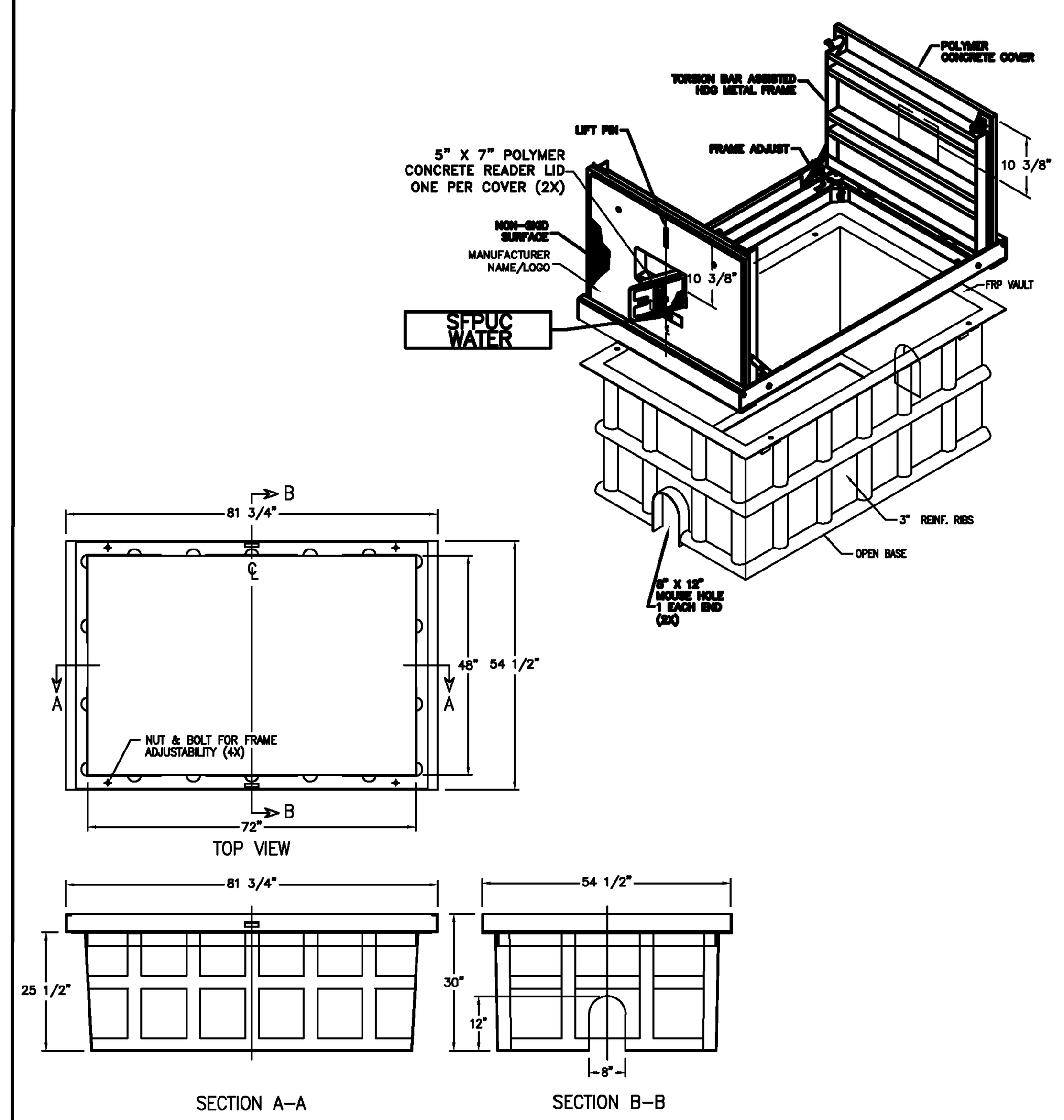
WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

San Francisco Water Power Sewer

Services of the San Francisco Public Utilities Commission

WATER SERVICES
10"X15"X12" METER BOX

DATE	10/1/2016	REV.	DRAWING NO.	SHEET
SCALE	N.T.S.	0	CDD-LP-213	87



ARMORCAST A6-1506TAX30M7-SFWD OR APPROVED EQUIVALENT

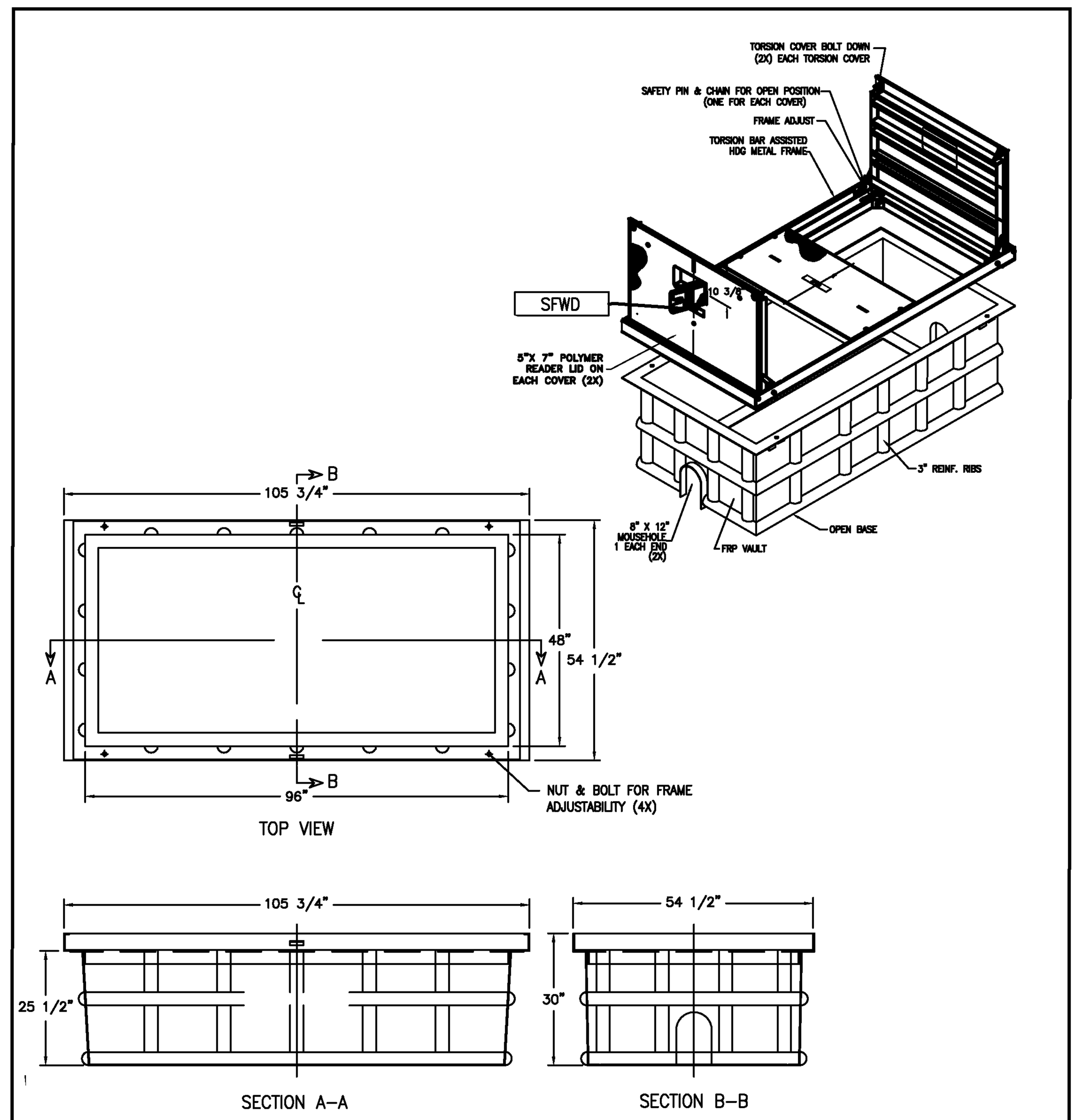
WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

San Francisco Water Power Sewer

Services of the San Francisco Public Utilities Commission

WATER SERVICES
48"X72"X30" METER VAULT W/TORSION ASSISTED COVER

DATE	10/1/2016	REV.	DRAWING NO.	SHEET
SCALE	N.T.S.	0	CDD-LP-215	89



ARMORCAST A6-1499TAXMT-SFWD OR APPROVED EQUIVALENT

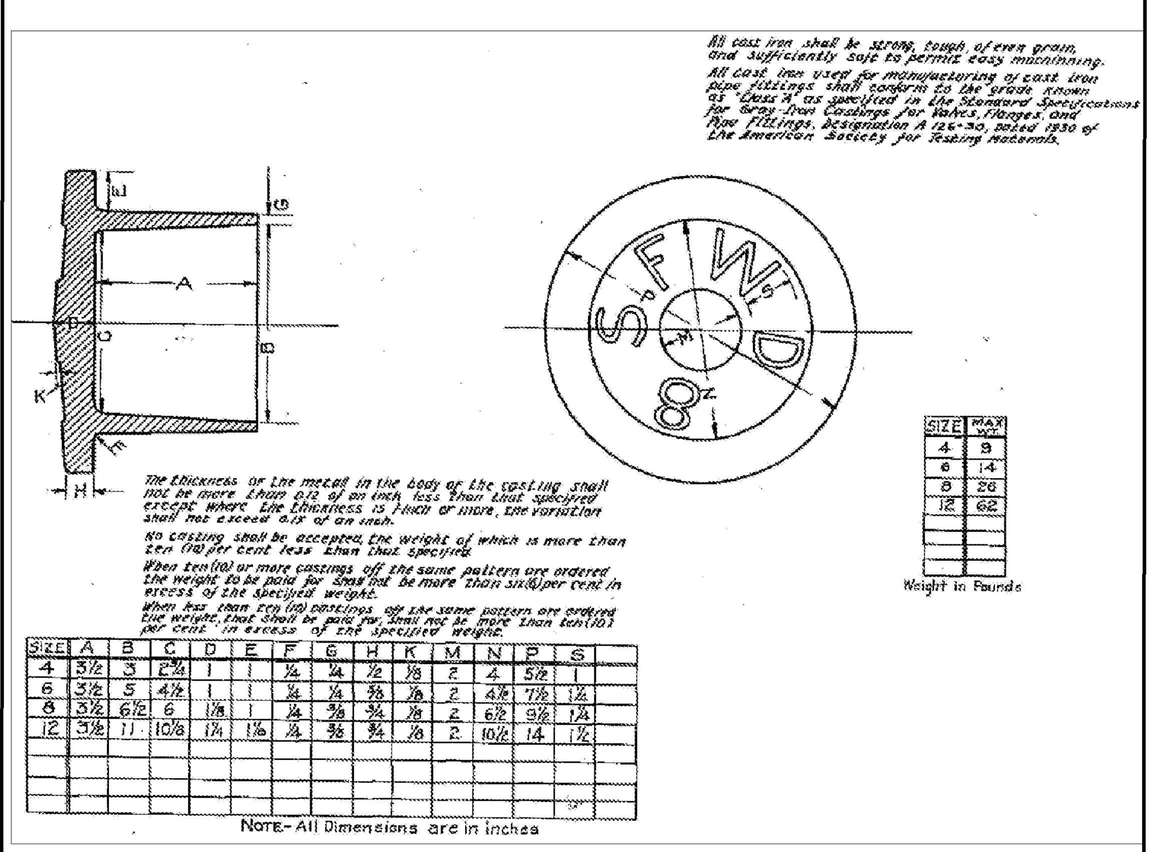
WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

San Francisco Water Power Sewer

Services of the San Francisco Public Utilities Commission

WATER SERVICES
48"X96"X30" METER VAULT W/TORSION ASSISTED COVER

DATE	10/1/2016	REV.	DRAWING NO.	SHEET
SCALE	N.T.S.	0	CDD-LP-216	90



D&L FOUNDRY C-700X OR APPROVED EQUIVALENT

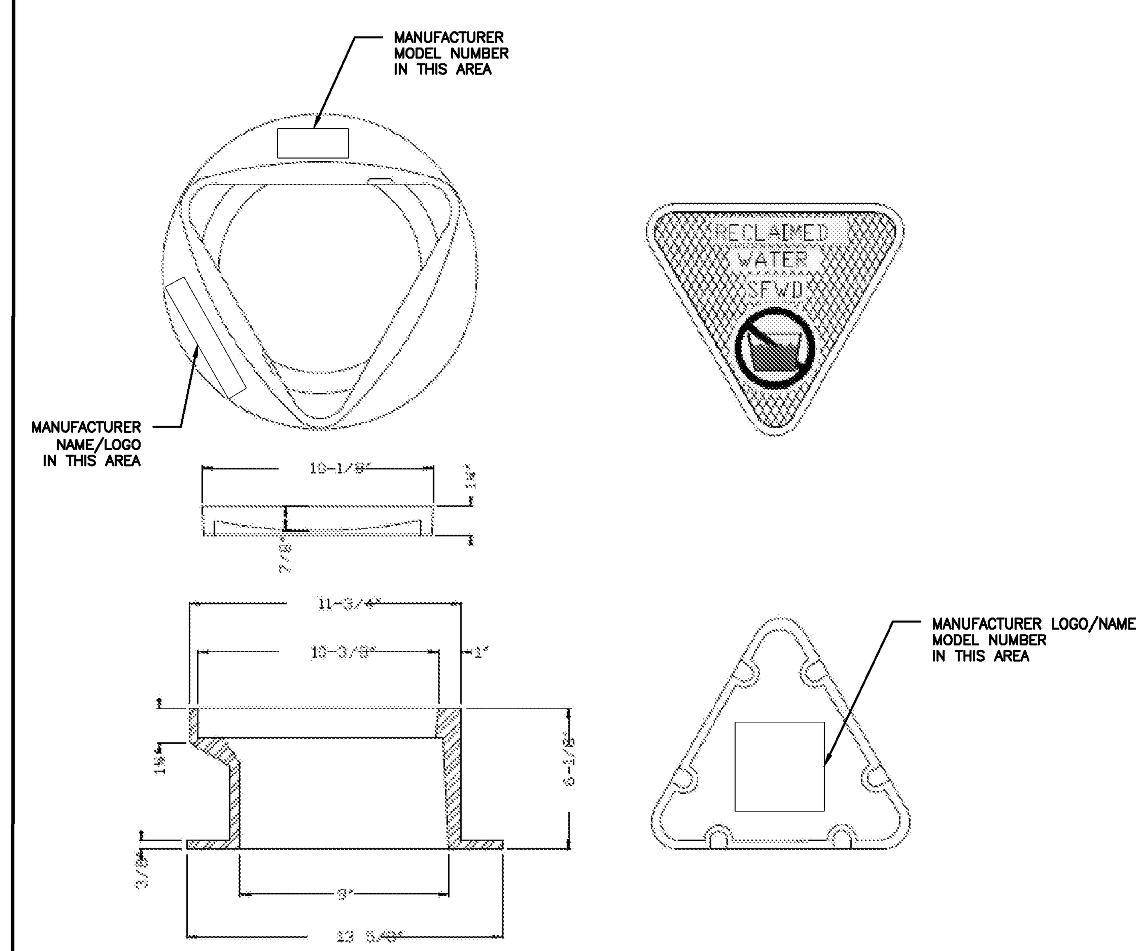
WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

San Francisco Water Power Sewer

Services of the San Francisco Public Utilities Commission

VALVE BOXES & COVERS
STANDARD SFWD POTABLE WATER GATE COVER

DATE	10/1/2016	REV.	DRAWING NO.	SHEET
SCALE	N.T.S.	0	CDD-LP-251	92



D&L FOUNDRY M-9009 OR APPROVED EQUIVALENT

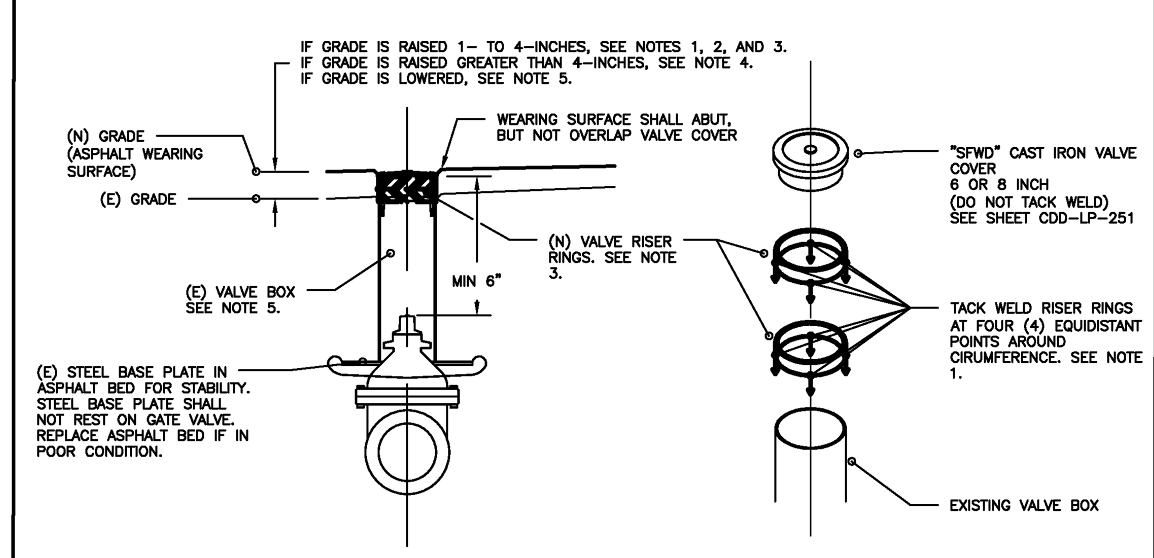
WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

San Francisco Water Power Sewer

Services of the San Francisco Public Utilities Commission

VALVE BOXES & COVERS
STANDARD SFWD RECYCLED WATER GATE COVER

DATE	10/1/2016	REV.	DRAWING NO.	SHEET
SCALE	N.T.S.	0	CDD-LP-252	93



VALVE COVER ADJUSTMENT NOTES FOR ASPHALT WEARING SURFACES:

1. TO RAISE VALVE COVERS BETWEEN 1–INCH AND 4–INCHES TO (N) STREET GRADE, TACK WELD SFWD–SUPPLIED VALVE BOX RISER RINGS TO (E) VALVE BOX AS SHOWN.
2. VALVE BOX RISER RINGS ARE AVAILABLE IN THE FOLLOWING SIZES FROM THE CITY DISTRIBUTION WAREHOUSE AT 1990 NEWCOMB AVENUE.

		COMMODITY CODE:
2.1.	1–INCH HIGH X 6–INCH DIAMETER	047–33–9061
2.2.	2–INCH HIGH X 6–INCH DIAMETER	047–33–9062
2.3.	1–INCH HIGH X 8–INCH DIAMETER	047–33–9081
2.4.	2–INCH HIGH X 8–INCH DIAMETER	047–33–9082

3. A MAXIMUM OF TWO (2) VALVE RISER RINGS MAY BE TACK–WELDED TO AN (E) IRON VALVE BOX.
4. IF VALVE COVERS ARE BEING RAISED MORE THAN 4–INCHES TO (N) GRADE, THE (E) VALVE BOX MUST BE REMOVED AND A (N) IRON VALVE BOX MUST BE CUT TO THE APPROPRIATE SIZE AND SET IN PLACE.
5. IF VALVE COVERS ARE BEING LOWERED, THE (E) VALVE BOX MUST BE REMOVED, CUT OR GROUND TO THE APPROPRIATE SIZE, AND RESET IN PLACE. THE MINIMUM DISTANCE BETWEEN GATE VALVE OPERATING NUT AND VALVE COVER IS SIX (6) INCHES.
6. IF VALVE BOX IS 12–INCHES OR GREATER IN DIAMETER, VALVE ADJUSTMENT MUST BE MADE BY INSTALLING A (N) VALVE BOX CUT TO THE APPROPRIATE SIZE. VALVE BOX RISER RINGS ARE NOT AVAILABLE FOR VALVE BOXES GREATER THAN OR EQUAL TO 12–INCHES IN DIAMETER.
7. (N) ASPHALT WEARING SURFACE SHALL ENCASE THE CIRCUMFERENCE, BUT NOT BE PLACED OVER THE TOP SURFACE OF, THE SFWD VALVE COVER.

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

San Francisco Water Power Sewer

Services of the San Francisco Public Utilities Commission

VALVE BOXES & COVERS
ADJUSTMENT OF STANDARD POTABLE GATE COVER TO NEW GRADE

DATE	10/1/2016	REV.	DRAWING NO.	SHEET
SCALE	N.T.S.	0	CDD-LP-253	94

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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BRIAN K. SCOTT No. 61059 Exp. 12/31/18 CIVIL STATE OF CALIFORNIA

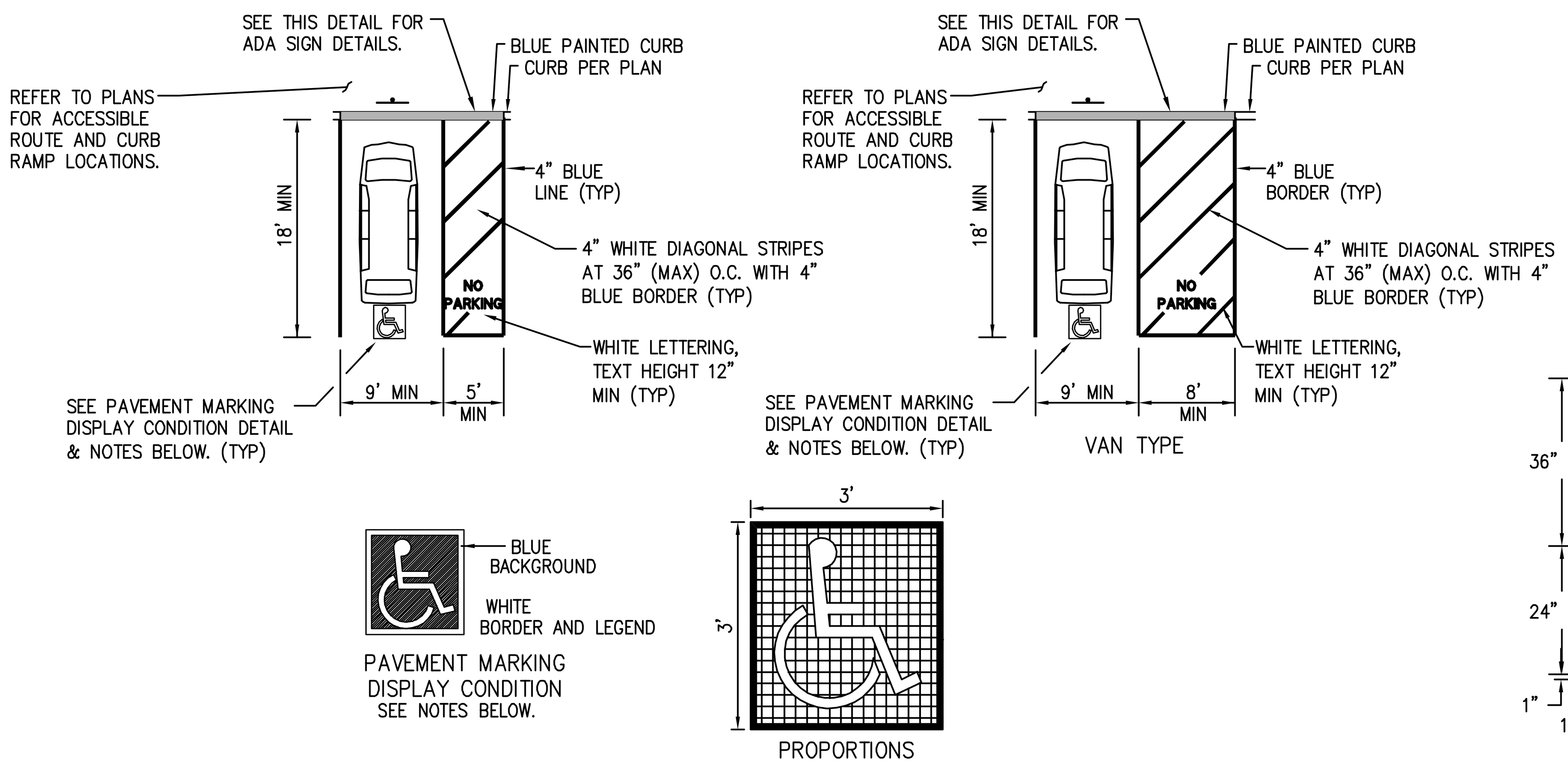
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.26

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.26)
PLOT TIME: 4-28-2017 4:21 PM PLOTTED BY: bum

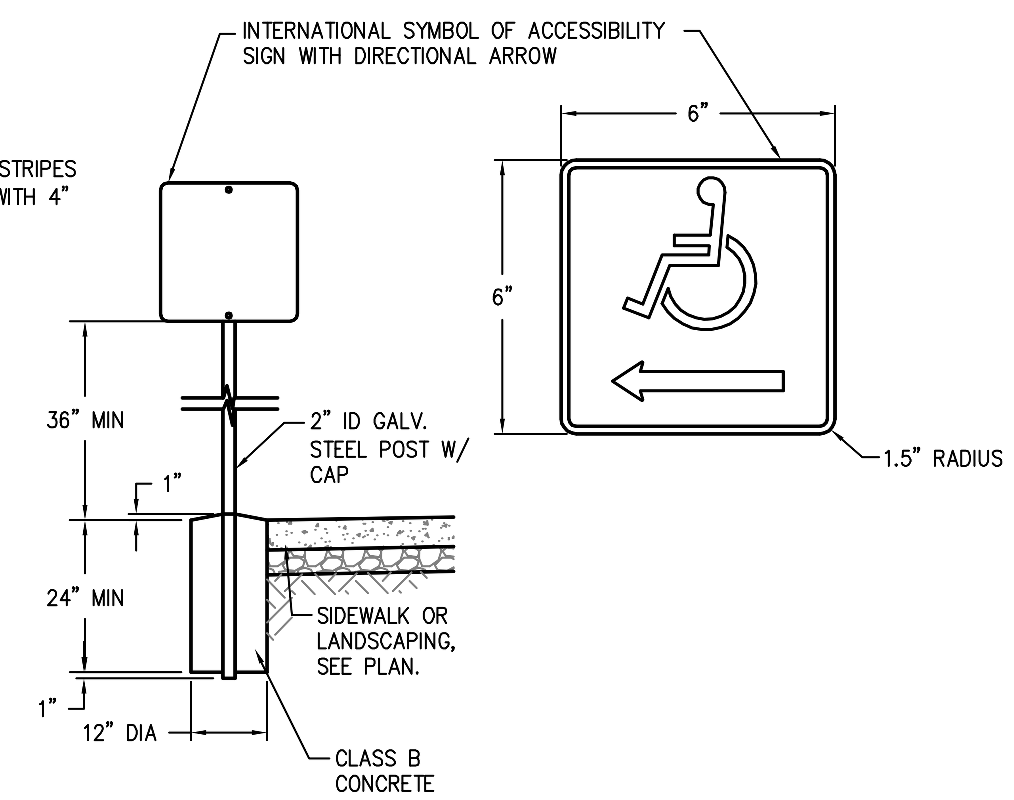
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



NOTES:
1. SLOPES WITHIN PARKING STALLS AND ACCESS AISLES SHALL BE THE MINIMUM FEASIBLE.
2. DIMENSIONS GIVEN ARE TO CENTER OF STRIPE.
3. WHEELSTOPS SHALL BE PROVIDED WHERE SHOWN IN PLAN.
4. THE CENTERLINE OF THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE A MAXIMUM OF 6" FROM THE CENTERLINE OF THE PARKING SPACE, ITS SIDES PARALLEL TO THE LENGTH OF THE PARKING SPACE AND ITS LOWER CORNER AT, OR LOWER SIDE ALIGNED WITH, THE END OF THE PARKING SPACE LENGTH.
5. ACCESS AISLES SHALL BE CONNECTED THE SIDEWALK VIA ACCESSIBLE MEANS (CURB RAMP, FLUSH TRANSITION, ETC.).

1 ACCESSIBLE PARKING (BY SFMTA)

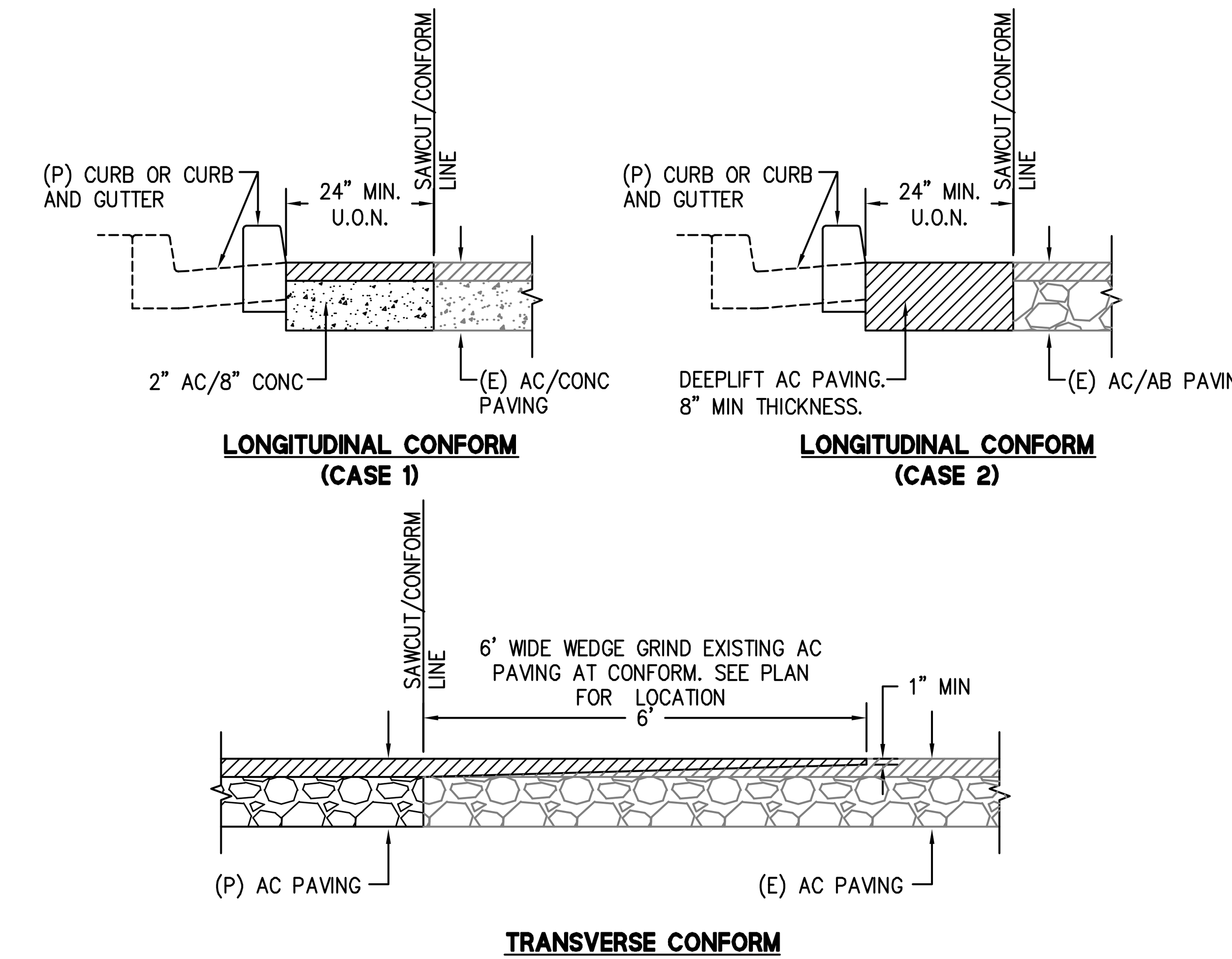
N.T.S.



NOTES:
1. SIGNS SHALL BE CONSTRUCTED OF PORCELAIN ON STEEL. DARK BLUE BACKGROUND (FEDERAL STANDARD 595B) WITH BEADED, WHITE SYMBOL AND A NON-GLARE FINISH.
2. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL FACE IN THE SAME DIRECTION AS THE DIRECTIONAL ARROW SIGN.
3. ADA PATH DIRECTIONAL SIGNS MOUNTED ON POSTS SHALL BE ORIENTED 45° TO PATH.

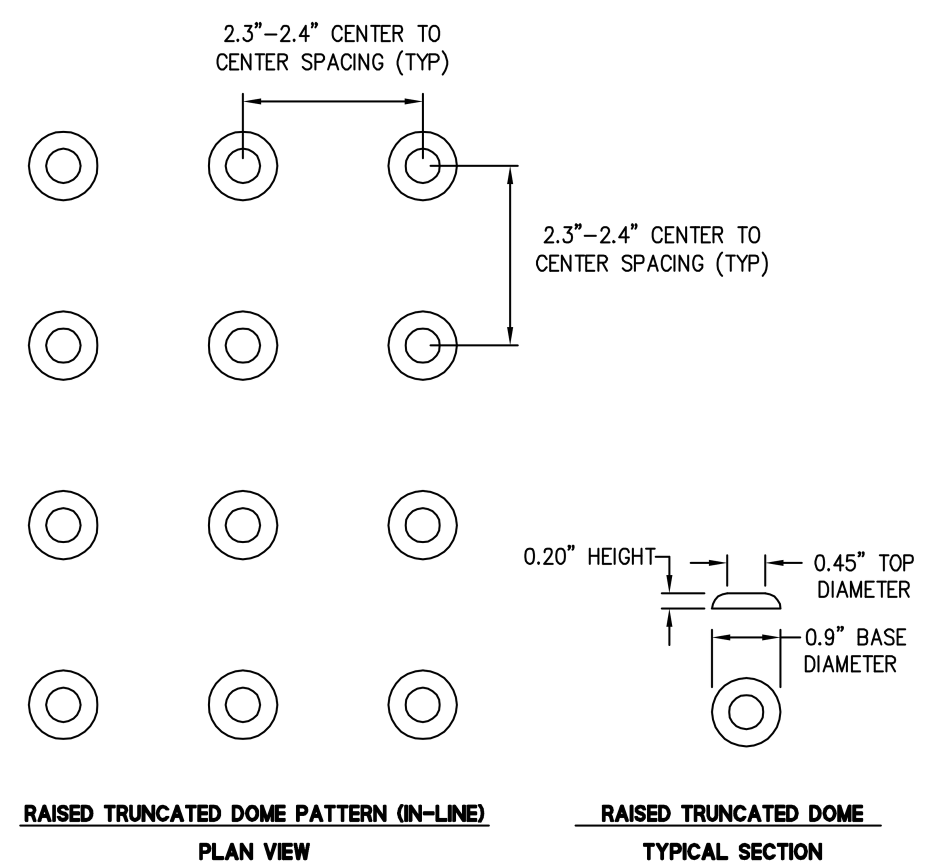
2 ADA PATH DIRECTIONAL SIGN DETAIL

N.T.S.



3 AC CONFORM DETAIL

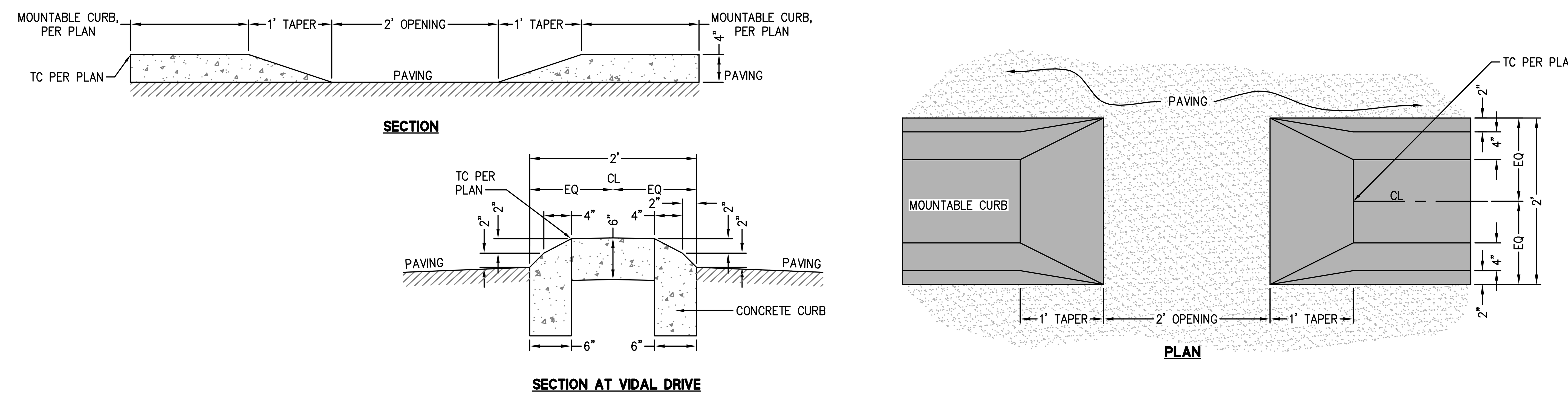
N.T.S.



NOTES:
1. DETECTABLE WARNING SURFACE SHALL BE FEDERAL YELLOW (COLOR NUMBER FS 33538).
2. DETECTABLE WARNING SURFACE SHALL DIFFER FROM ADJOINING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.
3. DETECTABLE WARNING SURFACE SHALL BE TEKWAY (OR APPROVED EQUIVALENT). INSTLL PER MANUFACTURER'S RECOMMENDATIONS.

4 DETECTABLE WARNING SURFACE

N.T.S.



NOTES:
1. REFER TO SHEET C7.17, DETAIL 5 FOR ADDITIONAL INSTALLATION NOTES.

5 MOUNTABLE CURB

N.T.S.

255 SHORELINE DR
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CONSTRUCTION DETAILS

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

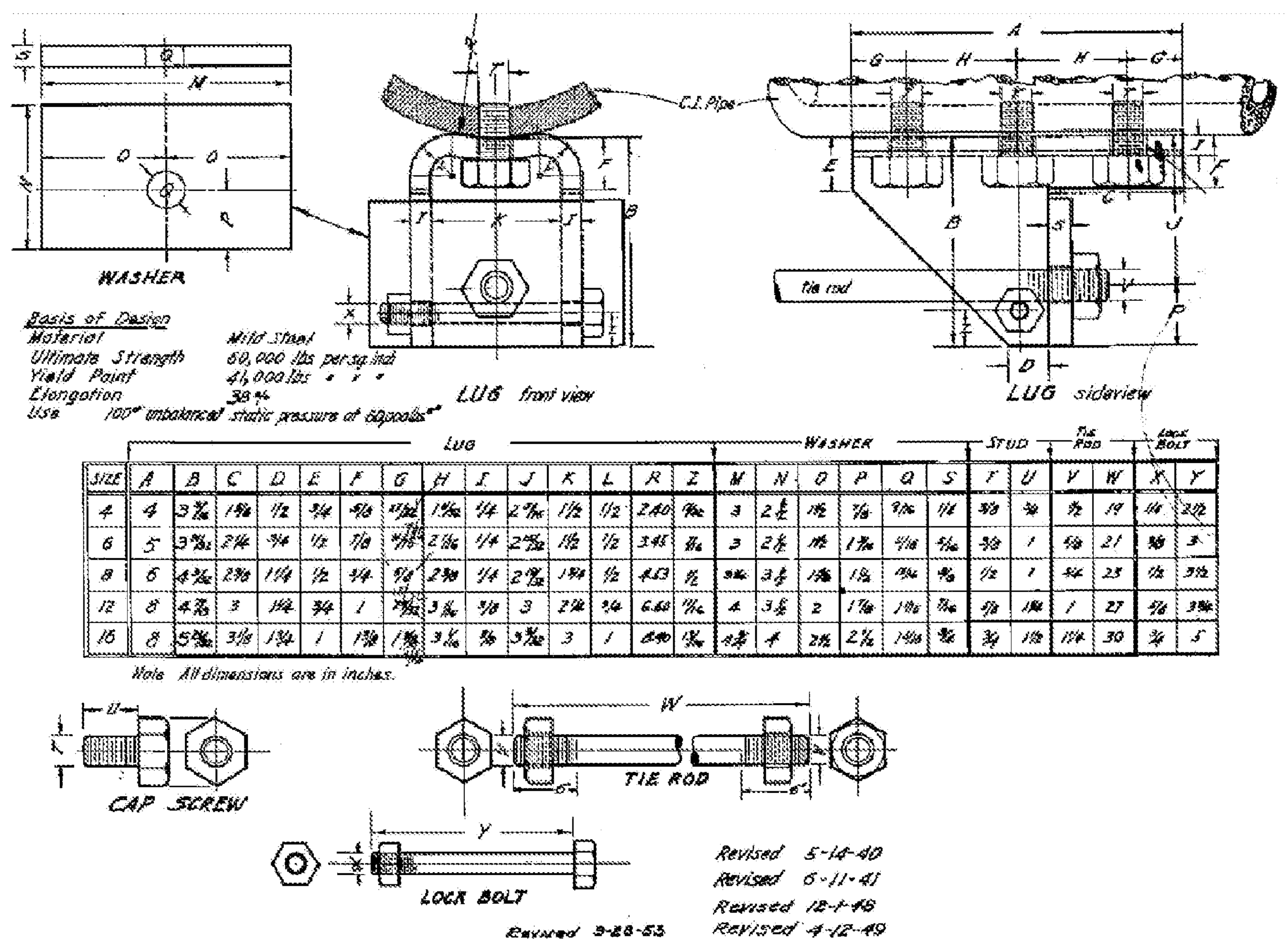
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number: C7.45

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.45)
PLOT TIME: 4-28-2017 4:22 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17



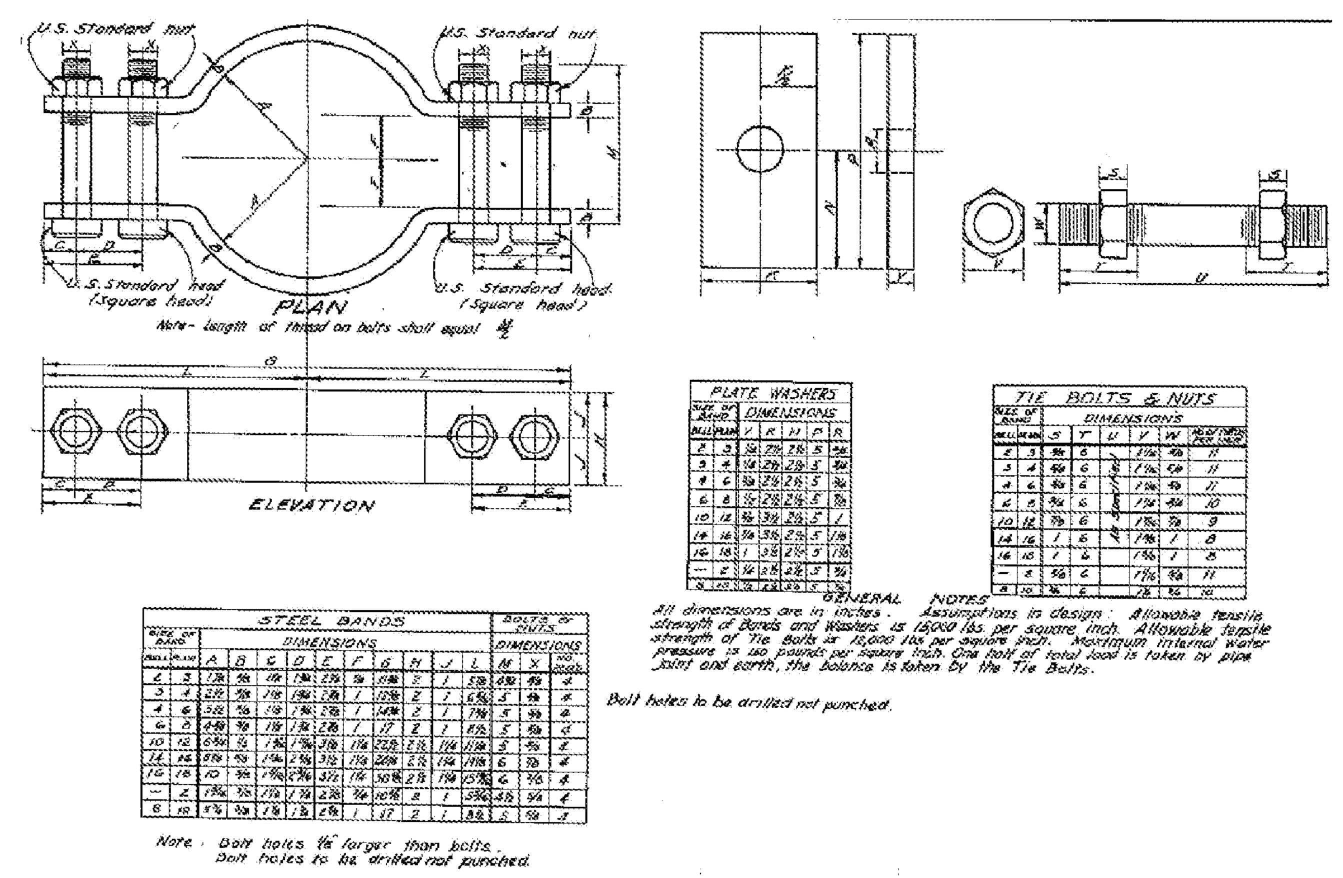
NOTE:
LUGS, TIE RODS, BOLTS AND WASHERS SHALL BE STAINLESS STEEL TYPE 304 OR 316

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

MISCELLANEOUS
LUGS AND TIE RODS

DATE	10/1/2016	REV.	DRAWING NO.	SHEET
SCALE	N.T.S.	0	CDD–LP–301	98



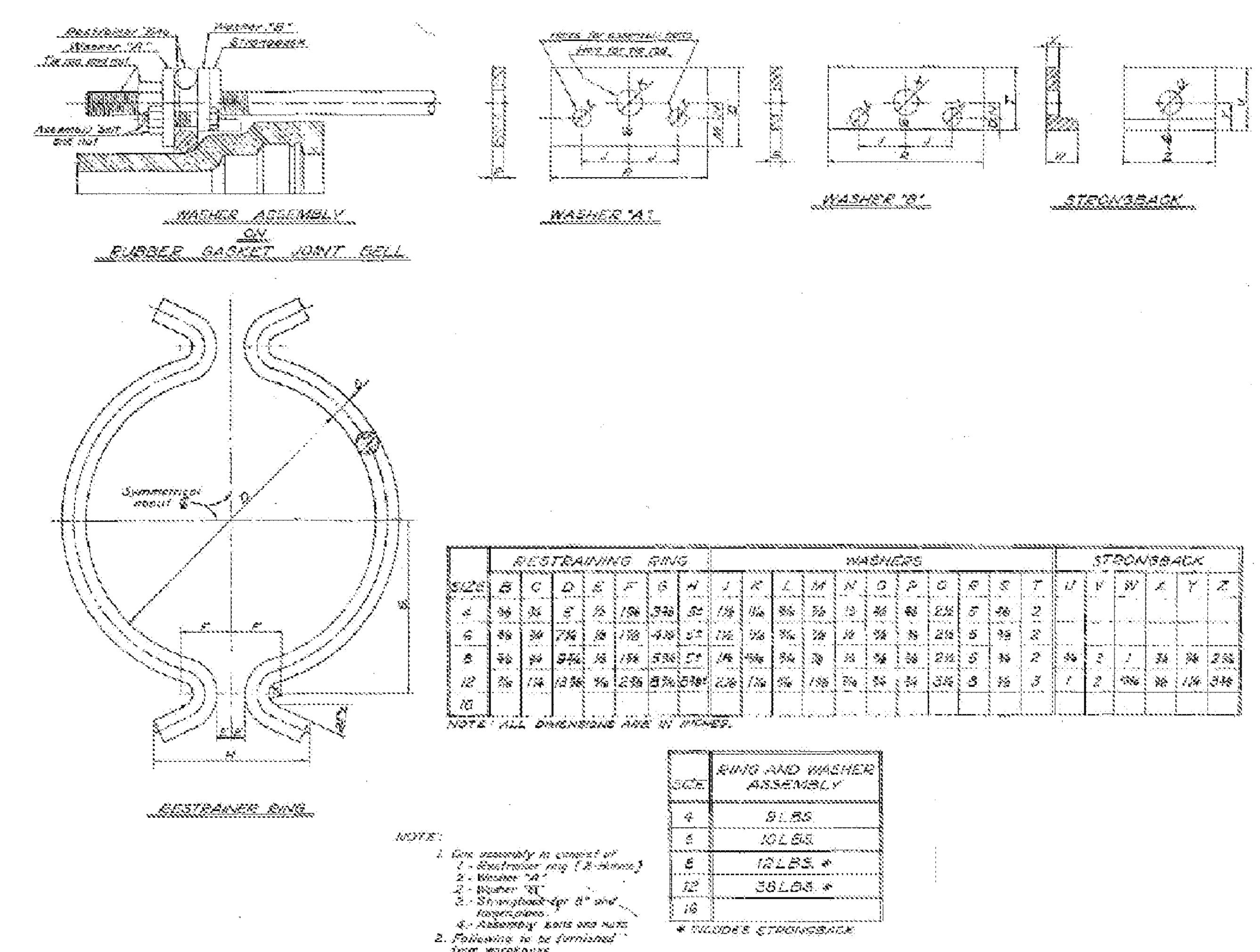
NOTE:
BOLTS, NUTS, BANDS, AND WASHERS SHALL BE STAINLESS STEEL TYPE 304 OR 316

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

MISCELLANEOUS
PLAIN & BELL BANDS / PLATE WASHERS & TIE BOLTS

DATE	10/1/2016	REV.	DRAWING NO.	SHEET
SCALE	N.T.S.	0	CDD–LP–302	99



San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

MISCELLANEOUS
RUBBER GASKET JOINT BELL

DATE	10/1/2016	REV.	DRAWING NO.	SHEET
SCALE	N.T.S.	0	CDD–LP–303	100

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CONSTRUCTION DETAILS

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.27

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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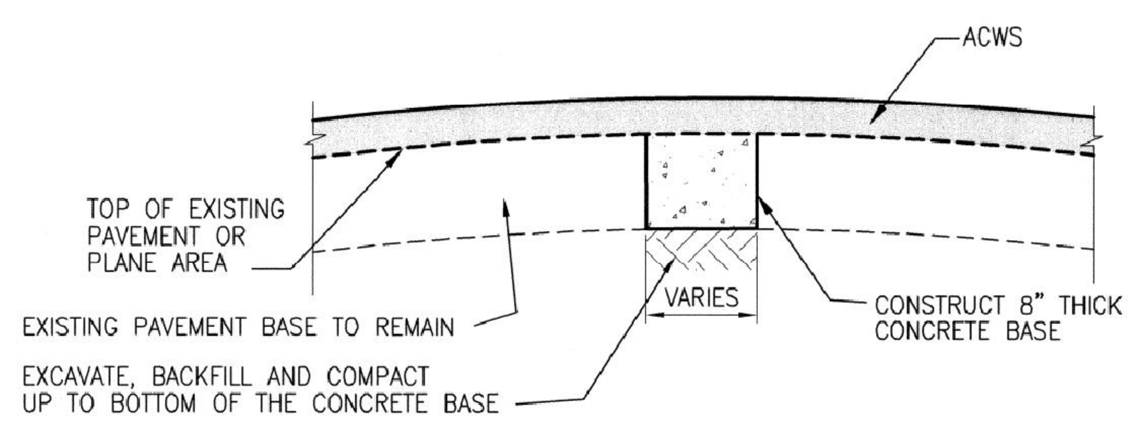
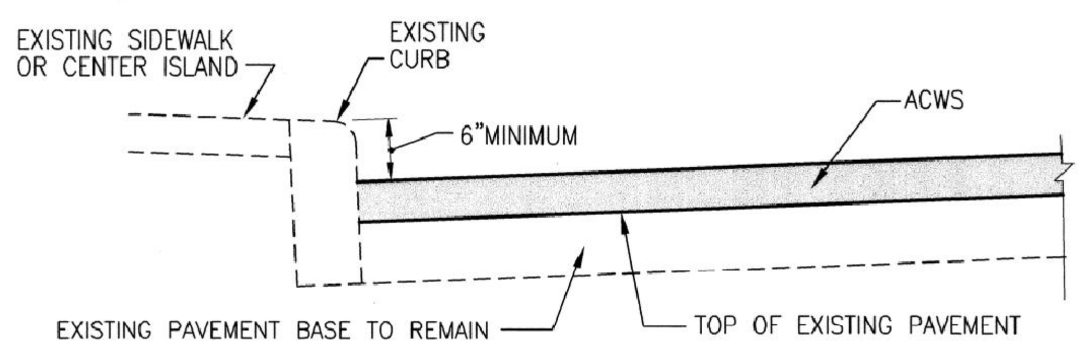
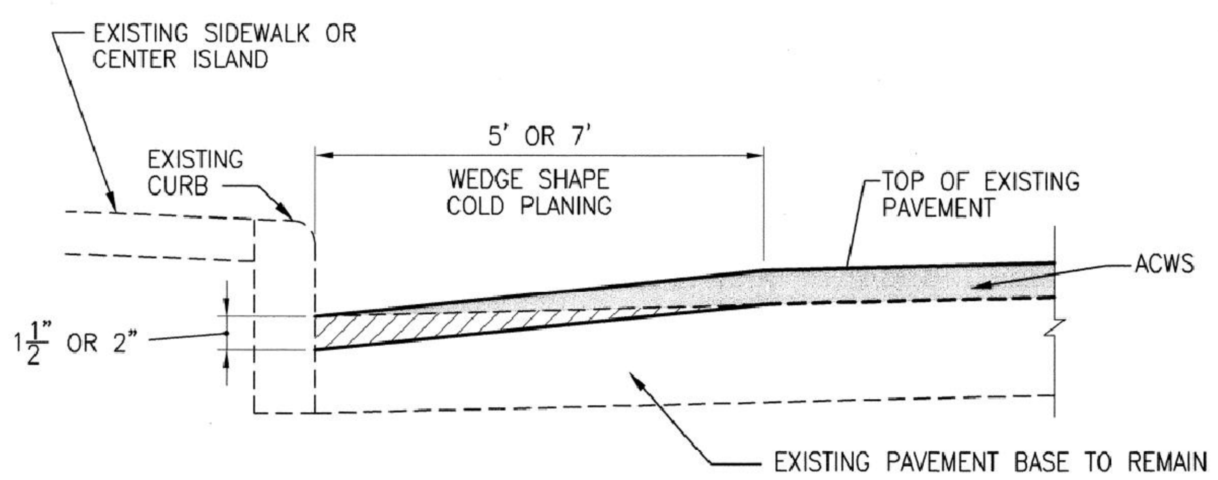


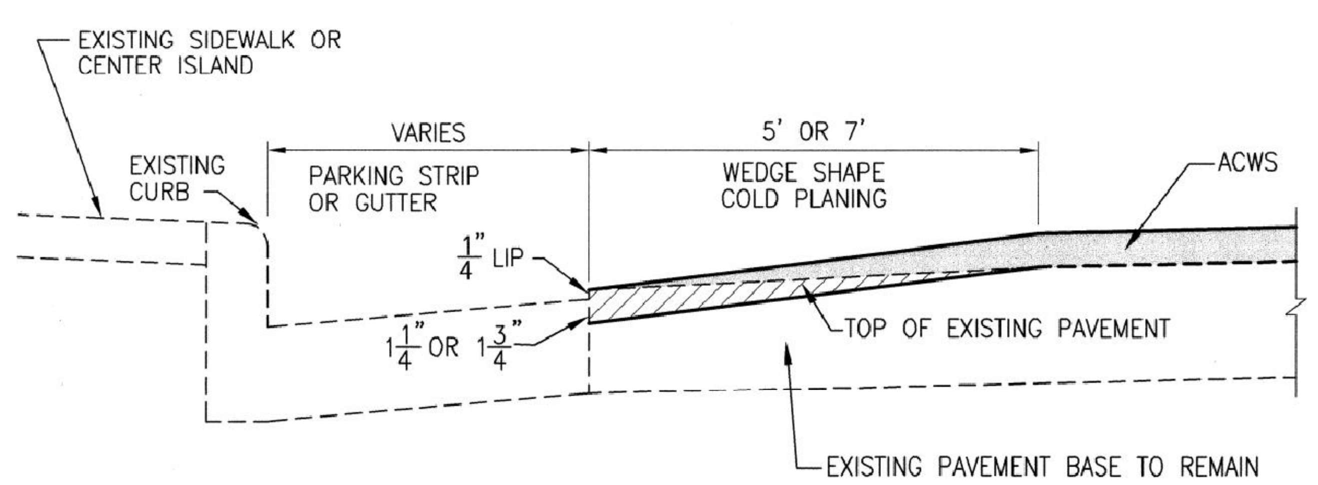
TYPICAL PAVEMENT REPAIR SECTION



RESURFACING ADJACENT TO CURB



PLANING AND RESURFACING ADJACENT TO CURB



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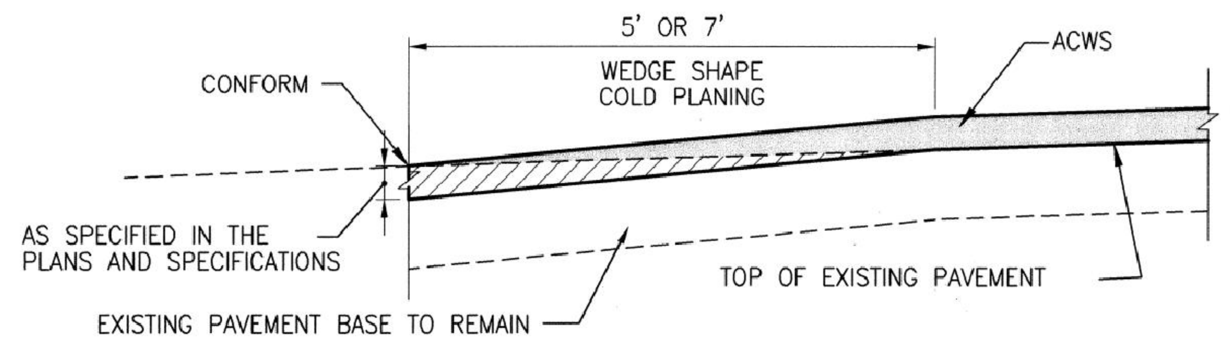
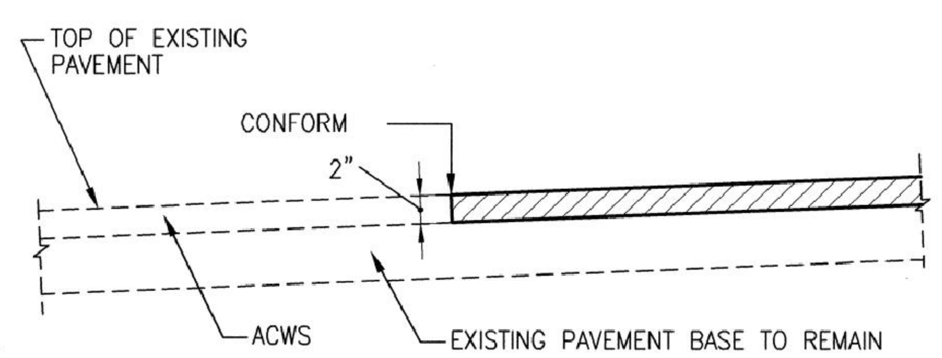


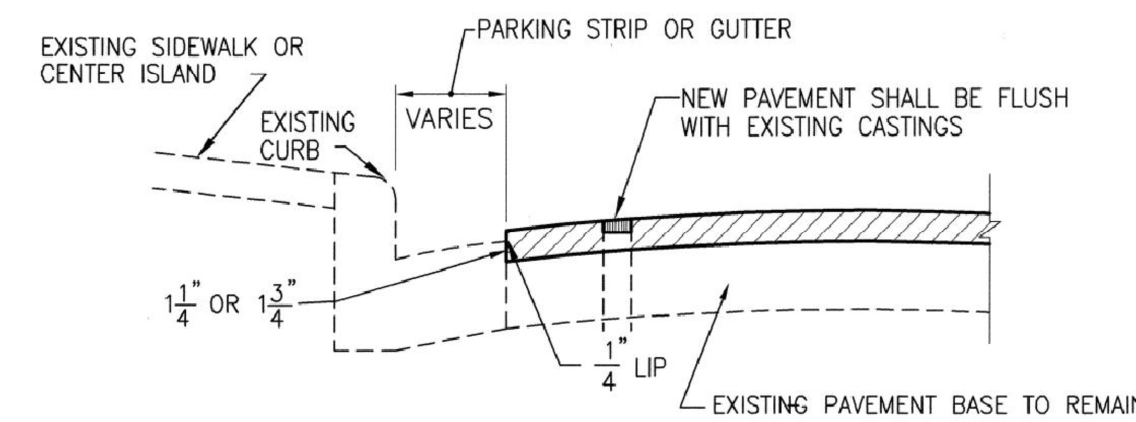
WEDGE SHAPE COLD PLANING CONFORM



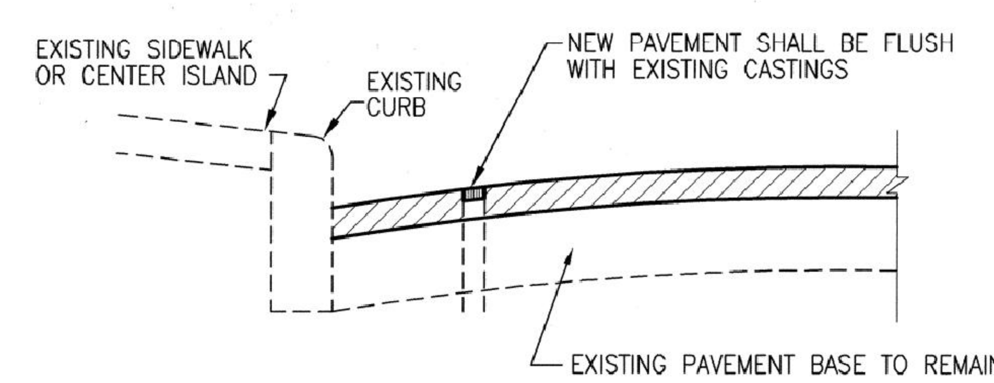
FULL DEPTH PLANING CONFORM

LEGEND

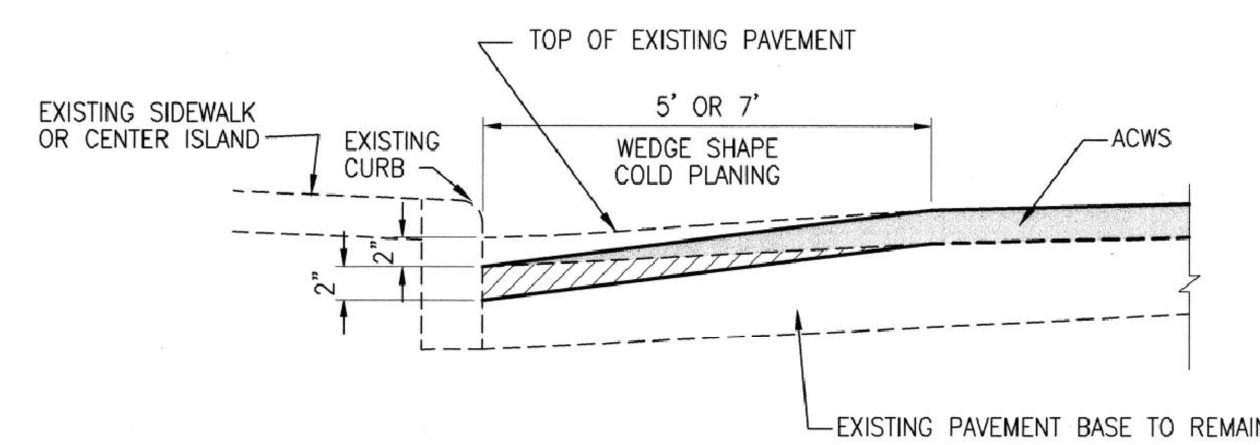
- NEW ASPHALT CONCRETE WEARING SURFACE (ACWS)
- AREA TO BE COLD PLANED AND RESURFACED
- EXISTING PAVEMENT OR FACILITY



FULL DEPTH PLANING & RESURFACING ADJACENT TO GUTTER OR PARKING STRIP



FULL DEPTH PLANING & RESURFACING ADJACENT TO CURB



PLANING AND RESURFACING TO INCREASE CURB HEIGHT

This Standard Plan was developed for use on public works projects in the City and County of San Francisco, and shall not be used without consulting a Registered Professional Engineer. The Department of Public Works reserves the right to make revisions to this Standard Plan at any time.

NO.	DATE	DESCRIPTION	BY	APP.

TABLE OF REVISIONS
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION

REFERENCE INFORMATION & FILE NO. OF SURVEYS

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

	DATE:
REVIEWED: PR	10/01/06
DRAWN: GY	10/01/06
CHECKED: EK	11/01/06

PLANS APPROVAL DATE: APRIL 30, 2007
SECTION MANAGER 4/27/07
DEPUTY BUREAU MANAGER 4/30/07
BUREAU MANAGER

STANDARD PLAN
STREETS AND HIGHWAYS
STANDARD COLD PLANING AND RESURFACING CROSS SECTIONS

OLD FILE NO. 49,096
FILE NO. 87,168
REV. NO.

Xrefs: V:\0966J Standard Plans & Specs Update\2_Plans\Title_Block\BOE STD Title Block.dwg
Dimension Scale: 1 Model Units: Inches
Drawing Path: V:\0966J Standard Plans & Specs Update\2_Plans\TMA\SW\R1.dwg, Login: carantos Measurement Units are English
Plot Time: Fri, 27 Apr 2007 - 11:58am

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CONSTRUCTION DETAILS
SAN FRANCISCO   SAN FRANCISCO COUNTY   CALIFORNIA

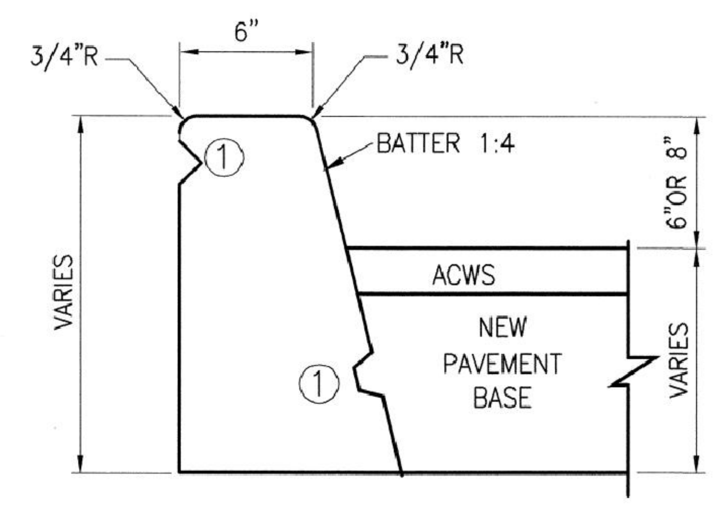
Revisions | No.

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

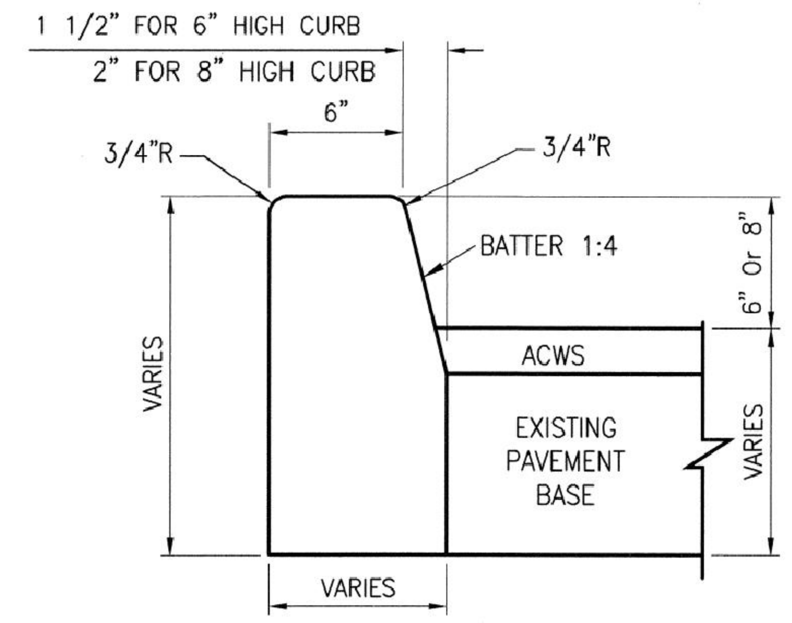
Drawing Number:
C7.28

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.28)
PLOT TIME: 4-28-2017 4:21 PM PLOTTED BY: bum

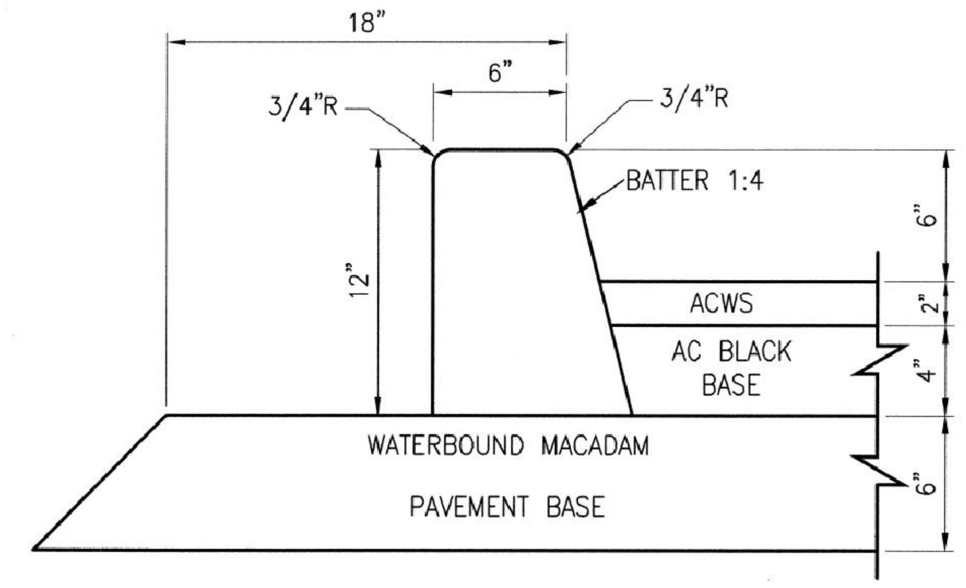
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



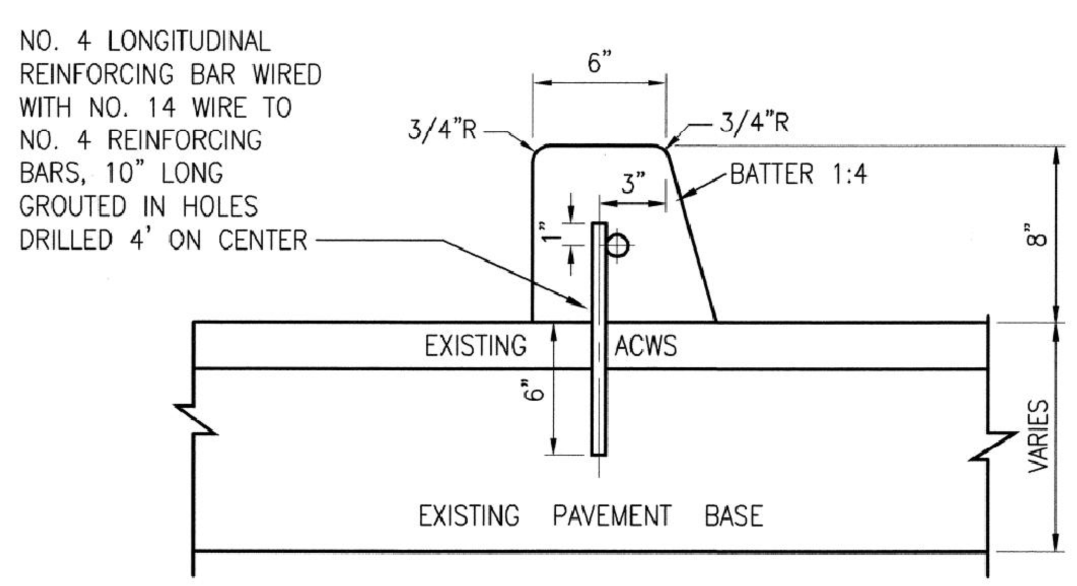
6-INCH OR 8-INCH HIGH CONCRETE CURB
(STANDARD SECTION)



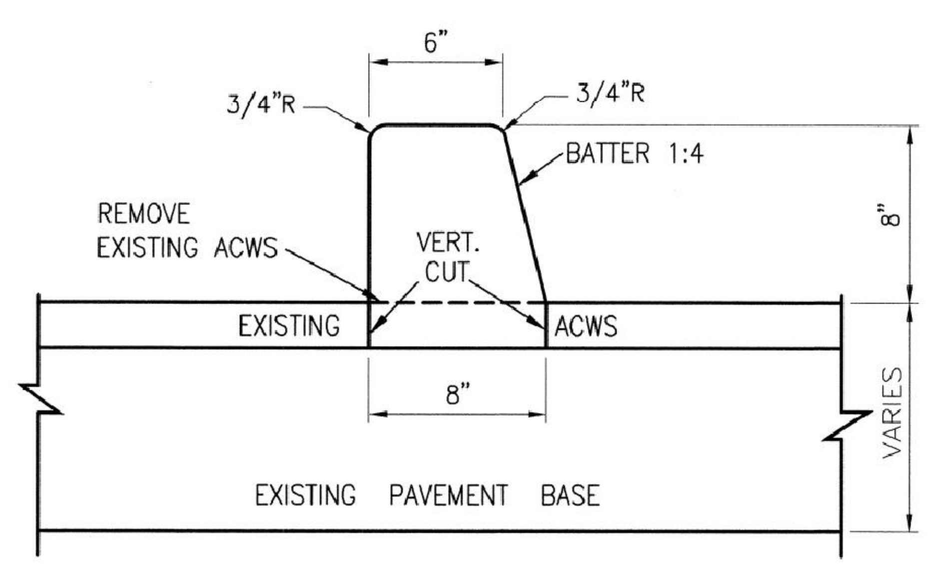
6-INCH OR 8-INCH HIGH CONCRETE CURB
(OPTIONAL SECTION)



6-INCH WIDE CONCRETE CURB
ADJACENT TO BLACK BASE ON
MACADAM SUBGRADE



SPECIAL DOWELED
8-INCH HIGH CONCRETE CURB
ON EXISTING PAVEMENT SURFACE



SPECIAL 8-INCH HIGH CONCRETE CURB
ON EXISTING PAVEMENT BASE

NOTES AND LEGEND

(1) LONGITUDINAL JOINTS FOR CONCRETE CURB SHALL BE AS SHOWN ON STANDARD PLAN NO. 87,173

ACWS = ASPHALT CONCRETE WEARING SURFACE

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NO.	DATE	DESCRIPTION	BY	APP.

TABLE OF REVISIONS
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION

REFERENCE INFORMATION & FILE NO. OF SURVEYS

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DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

	DATE:
REVIEWED: PR	10/01/06
DRAWN: GY	10/01/06
CHECKED: EK	11/01/06

PLANS APPROVAL DATE: APRIL 30, 2007
SECTION MANAGER 4/27/07
DEPUTY BUREAU MANAGER 4/30/07
BUREAU MANAGER

STANDARD PLAN
STREETS AND HIGHWAYS
STANDARD CURBS

OLD FILE NO. LL-24,455 CH 1
FILE NO. 87,169
REV. NO.

Xrefs: V:\0964J Standard Plans & Specs Update\V_Plans\Title_Block\BOE STD Title Block.dwg
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Model Units: Meters
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Plot Time: Fri, 27 Apr 2007 - 10:27am
Measurement Units are Metric

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CONSTRUCTION DETAILS
SAN FRANCISCO   SAN FRANCISCO COUNTY   CALIFORNIA

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Revisions | No.

Drawing Number:
C7.29

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.29)
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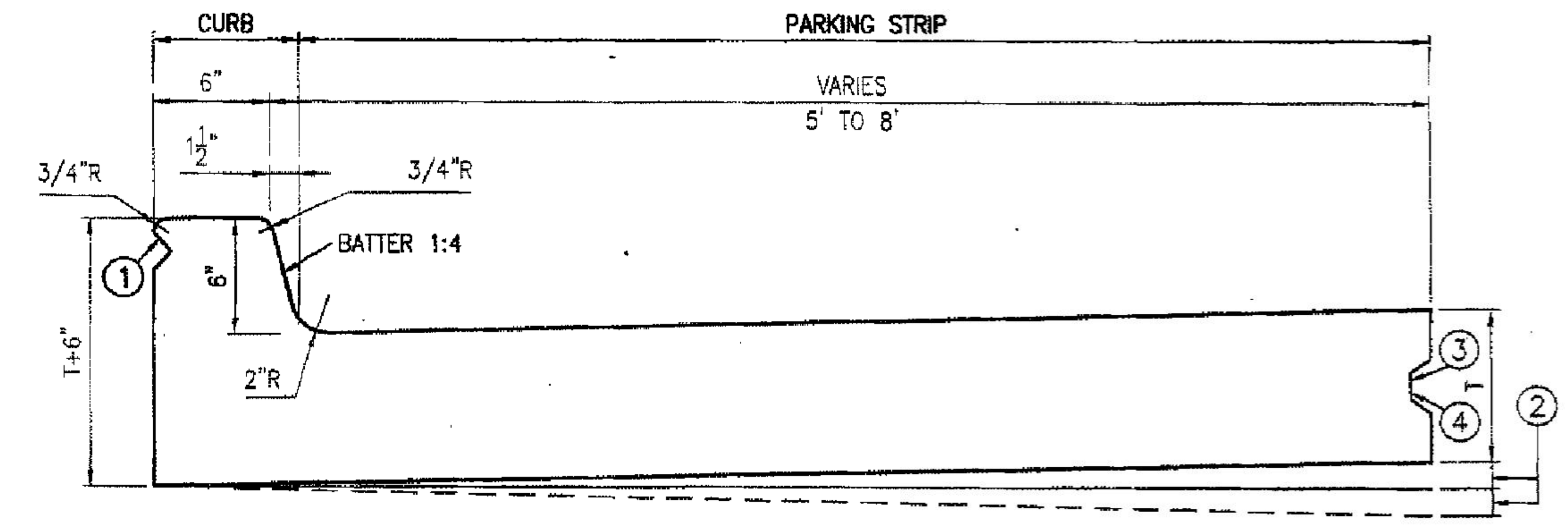
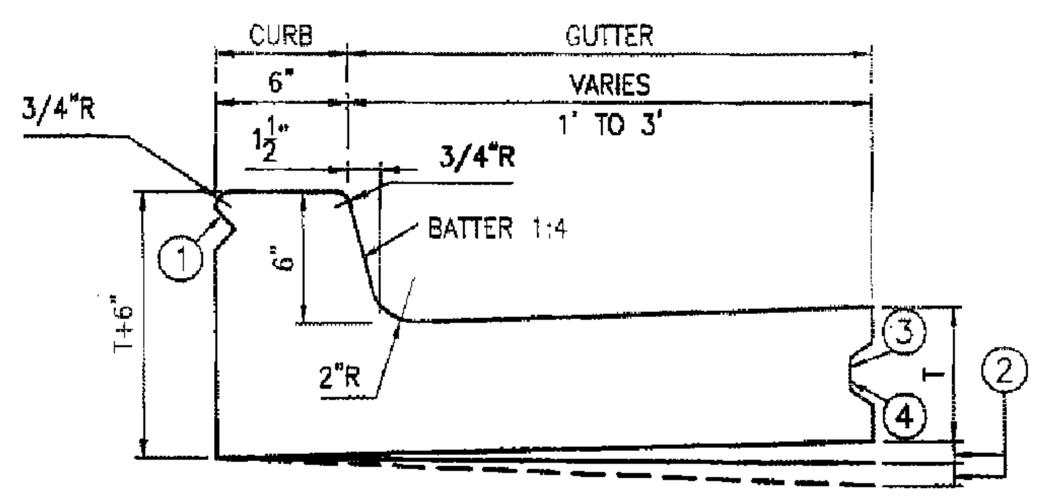
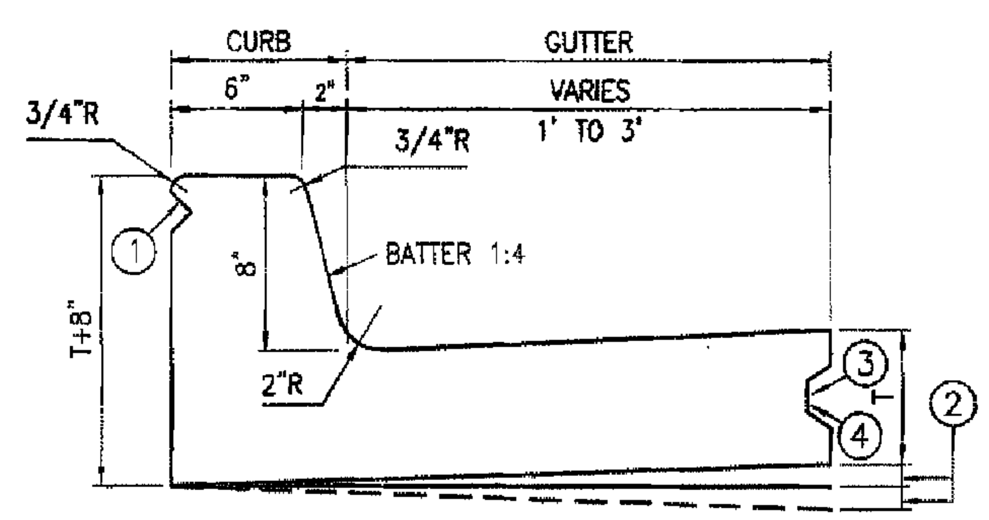
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



COMBINED 6-INCH CONCRETE CURB AND PARKING STRIP



COMBINED 6-INCH CONCRETE CURB AND GUTTER



COMBINED 8-INCH CONCRETE CURB AND GUTTER

NOTES:

1. LONGITUDINAL JOINTS FOR CONCRETE CURB SHALL BE AS SHOWN ON PLAN C-2.08
2. SET TO FIT CROWN OR SUPERELEVATION OF ADJACENT ROADWAY
3. LONGITUDINAL JOINT NOT REQUIRED FOR AGGREGATE BASE OR ASPHALT CONCRETE BASE
4. LONGITUDINAL JOINTS FOR CONCRETE PARKING STRIP OR GUTTER SHALL BE AS SHOWN ON PLAN L-26,075 Ch.1

T = 8" MINIMUM THICKNESS

R = RADIUS

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NO.	DATE	DESCRIPTION	BY	APP.

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CITY AND COUNTY OF SAN FRANCISCO

REVIEWED:	DATE:
PR	10/01/06
DRAWN:	DATE:
GY	10/01/06
CHECKED:	DATE:
EK	11/01/06

PLANS APPROVAL DATE: APRIL 30, 2007
SECTION MANAGER 4/27/07
DEPUTY BUREAU MANAGER 4/30/07
BUREAU MANAGER

STANDARD PLAN
STREETS AND HIGHWAYS
STANDARD COMBINED CURB AND PARKING STRIP OR GUTTER

OLD FILE NO. L-24,456 CH. 3
FILE NO. 87,170
REV. NO.

Drawing Path: V:\0966J Standard Plans & Specs Update\2_Plans\Final\SF\A183.dwg
Plot Time: Fri. 27 Apr 2007 - 10:28am

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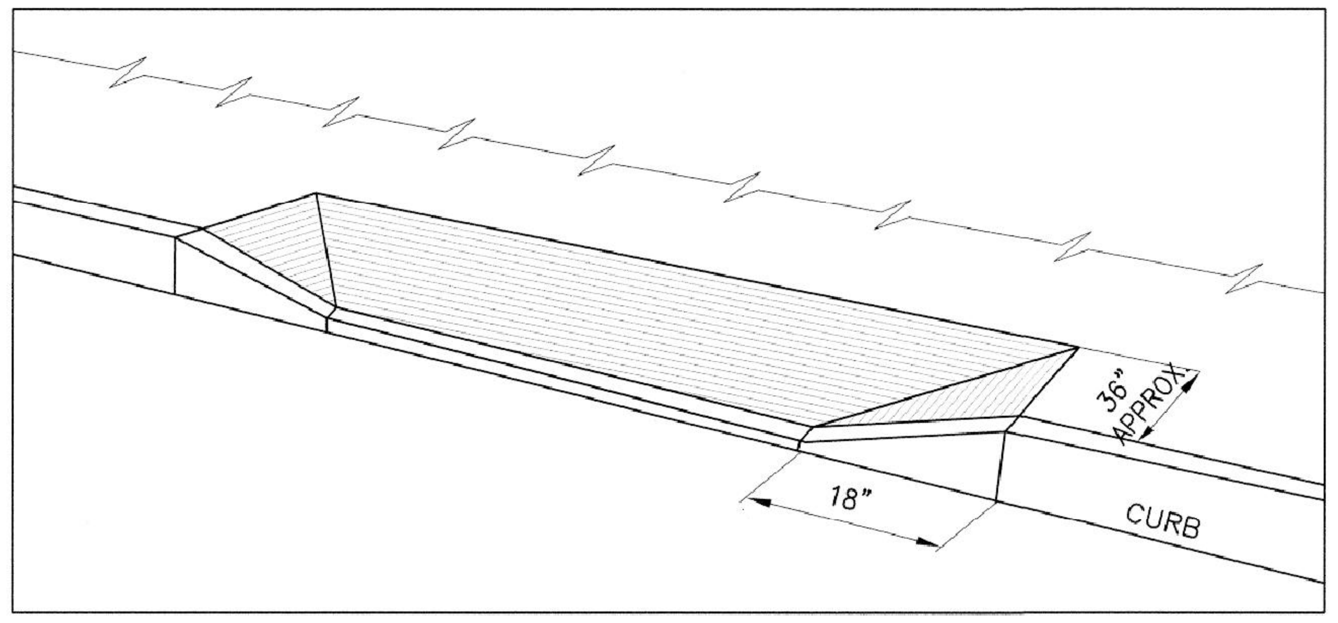
Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

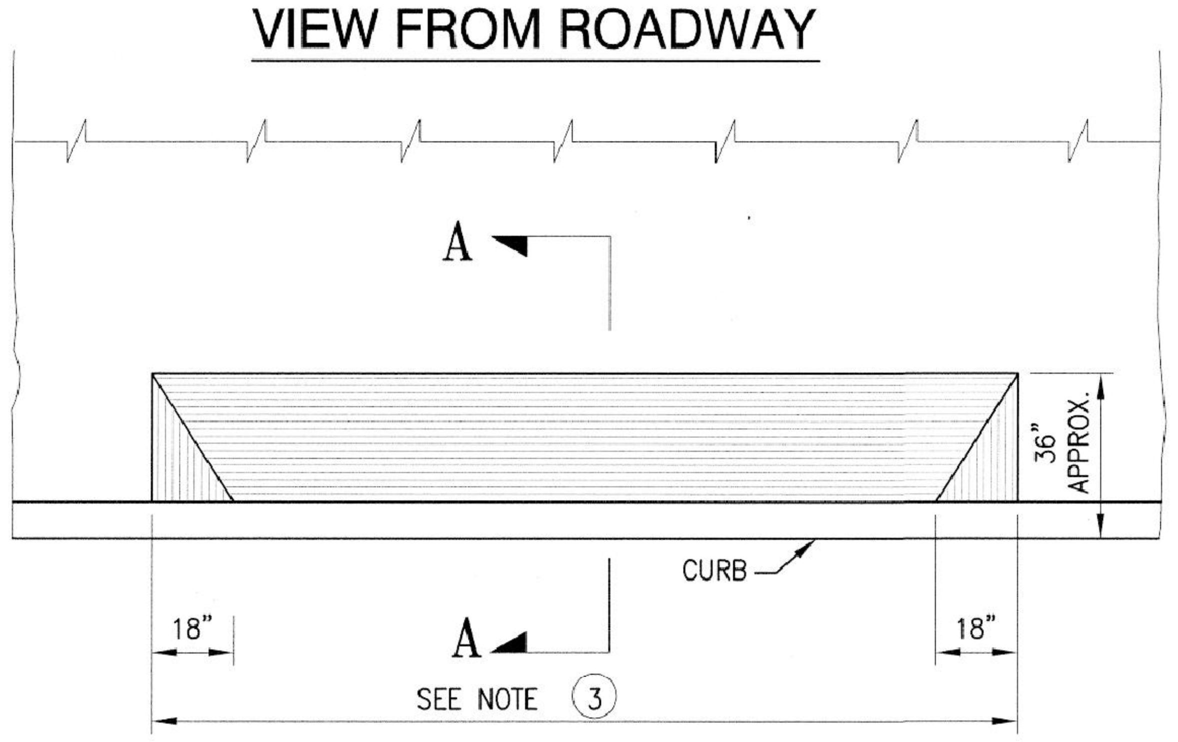
Drawing Number:
C7.30

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.30)
PLOT TIME: 4-28-2017 4:21 PM PLOTTED BY: bum

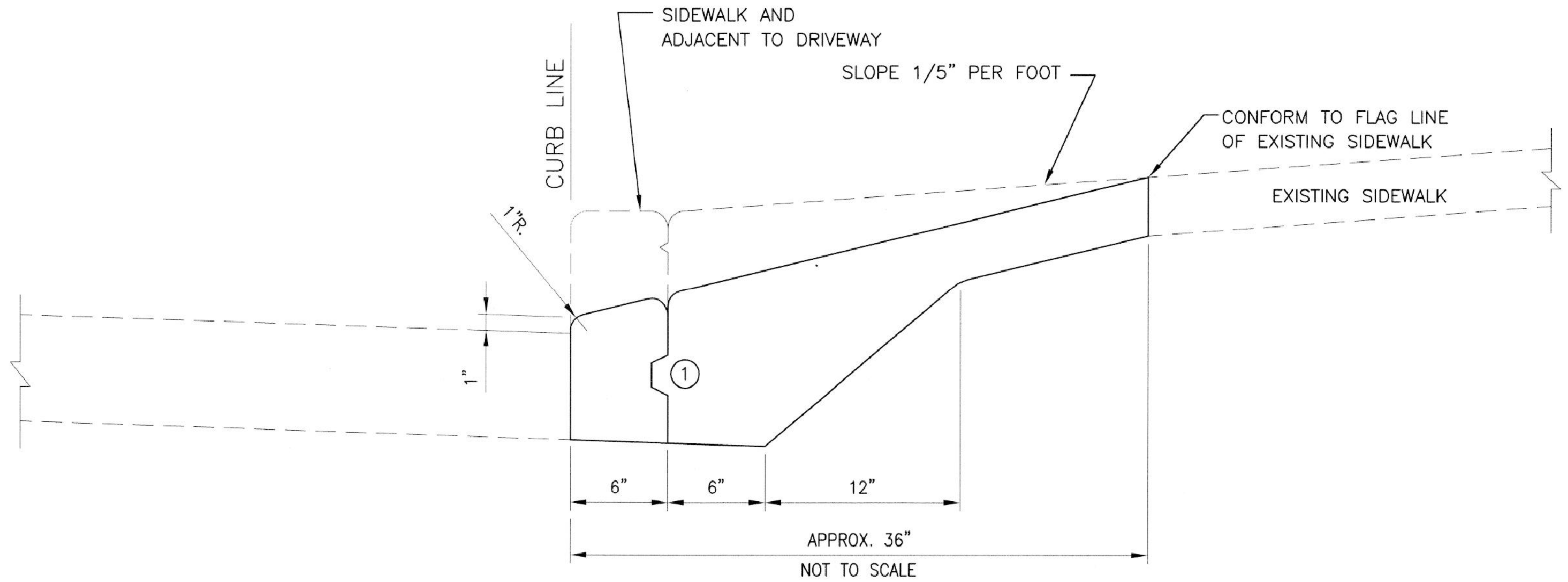
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



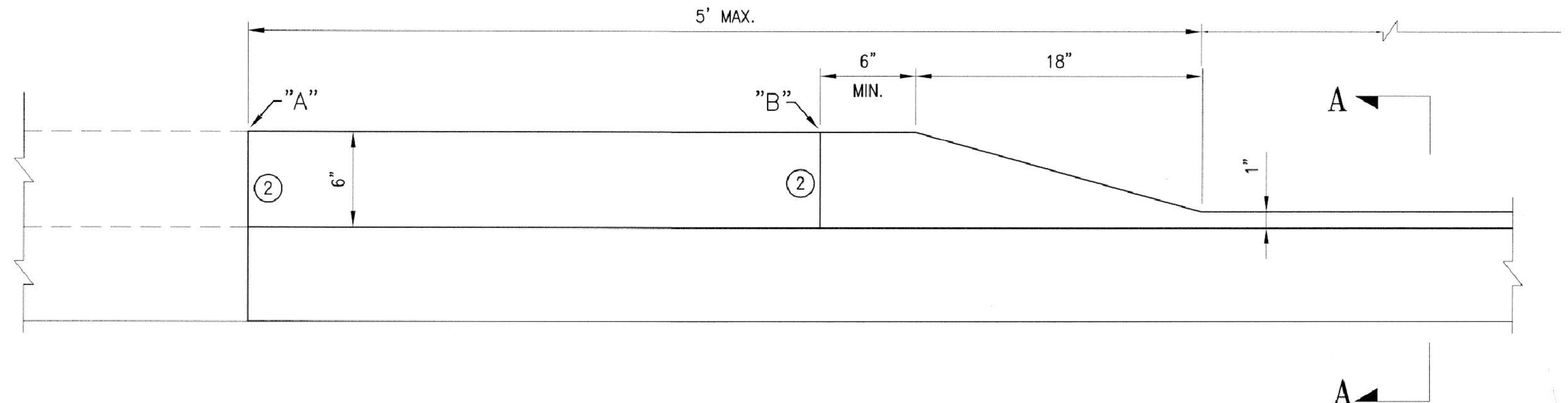
VIEW FROM ROADWAY



PLAN VIEW OF DRIVEWAY



SECTION "A-A"



FRONT VIEW

NOTES:

1. 2-1/2"x1" LONGITUDINAL JOINT PER STANDARD PLAN 87,173 ONLY IF CURB IS POURED SEPARATELY.
2. CONCRETE CURB SHALL BE REPLACED TO JOINT "A" IF WITHIN 5 FEET, OR SAWCUT AT POINT "B" IF JOINT IS OVER 5 FEET AWAY. STONE CURB SHALL BE REPLACED TO NEAREST SECTION AND THE ENDS CLEANED AND SQUARED.
3. WIDTH OF DRIVEWAY IS 10 FEET STANDARD, INCLUDING WINGS/FLARED SIDES.
4. IF PROPOSED WIDTH EXCEEDS 10 FEET, BUT NO MORE THAN 30 FEET, THEN SAID DRIVEWAY MUST BE DIMENSIONED ON BUILDING PLANS AND APPROVED BY THE PLANNING DEPARTMENT.
5. A DRIVEWAY EXCEEDING 30 FEET MAY BE REQUESTED BY APPLYING FOR AN OVERWIDE DRIVEWAY PERMIT AT DPW.

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NO.	DATE	DESCRIPTION	BY	APP.
1	12/10/12	REVISIONS TO NOTES	EK	CY

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DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

	DATE:
DESIGNED: PR	10/01/06
DRAWN: GY	11/01/06
CHECKED: EK	11/01/06

PLANS APPROVAL DATE: APRIL 30, 2007
12/10/12 SECTION MANAGER
12/10/12 DEPUTY DIVISION MANAGER
12/11/12 DIVISION MANAGER

STANDARD PLAN
STREETS AND HIGHWAYS
DRIVEWAY CONSTRUCTION

OLD FILE NO. L-6964.1 L-19,689.1 CH 3
FILE NO. 87,171
REV. NO. 1

Drawing Path: S:\Stn\STANDARD PLAN\STANDARD PLAN.dwg, Login: lauy
Plot Time: Mon, 10 Dec 2012 - 7:30am

255 SHORELINE DR
SUITE 200
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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

Revisions | No.

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.31

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.31)
PLOT TIME: 4-28-2017 4:21 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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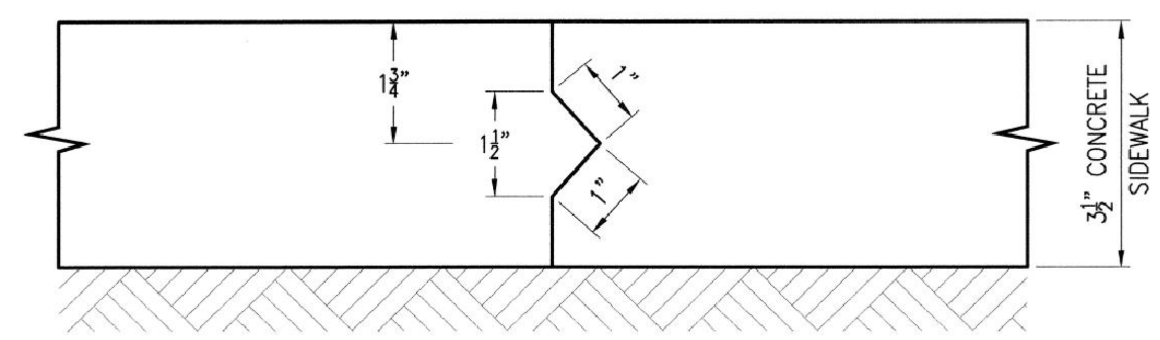
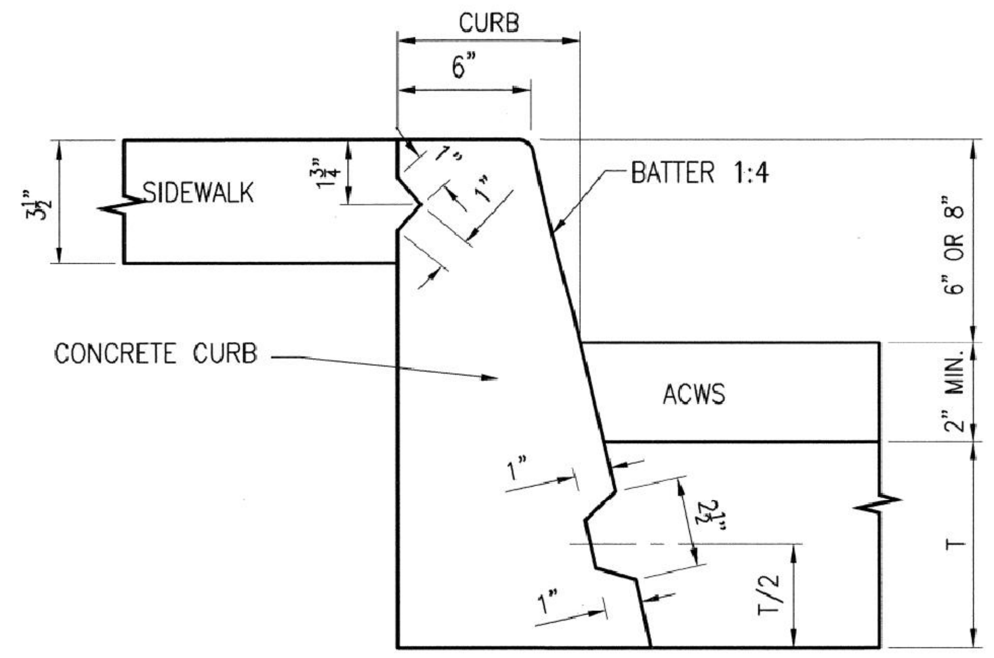


TRANSVERSE CONSTRUCTION JOINT
FOR CONCRETE SIDEWALK

LEGEND:

ACWS = ASPHALT CONCRETE WEARING SURFACE
T = THICKNESS OF CONCRETE BASE



LONGITUDINAL CONSTRUCTION JOINTS
FOR CONCRETE CURB

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CITY AND COUNTY OF SAN FRANCISCO

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REVIEWED: PR	10/01/06
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CHECKED: EK	11/01/06

PLANS APPROVAL DATE: APRIL 30, 2007
SECTION MANAGER 4/27/07
DEPUTY BUREAU MANAGER 4/30/07
BUREAU MANAGER

STANDARD PLAN
STREETS AND HIGHWAYS
STANDARD CONSTRUCTION JOINTS FOR CONCRETE SIDEWALK AND CURB

OLD FILE NO. L-31,374 CH 1
FILE NO. 87,173
REV. NO.

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Revisions | No.

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.32

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.32)
PLOT TIME: 4-28-2017 4:21 PM PLOTTED BY: bum

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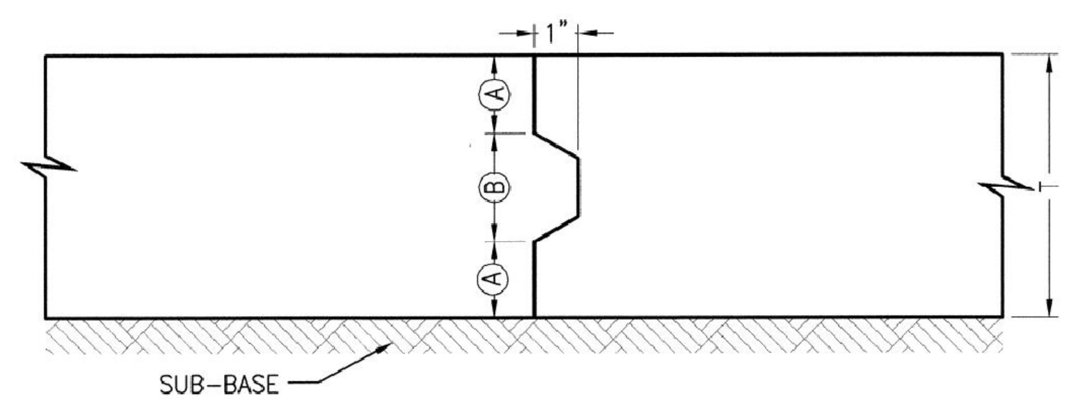
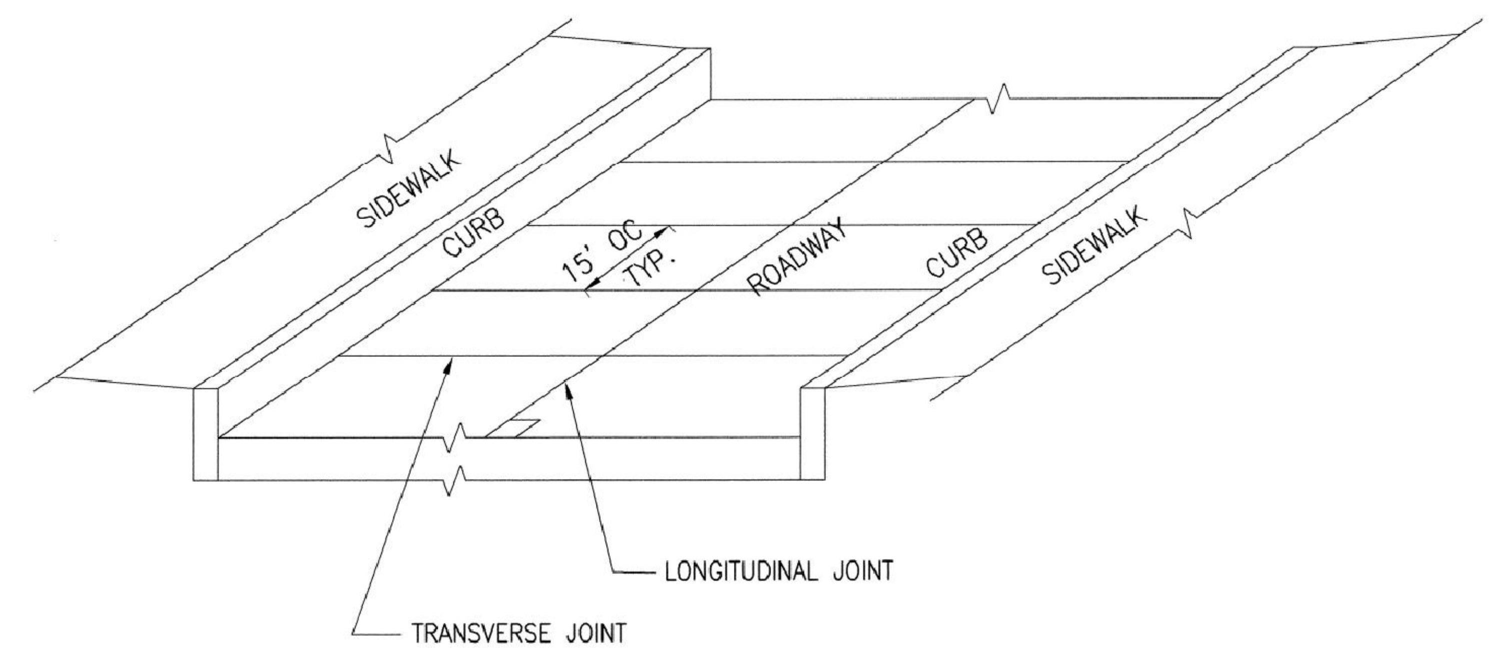
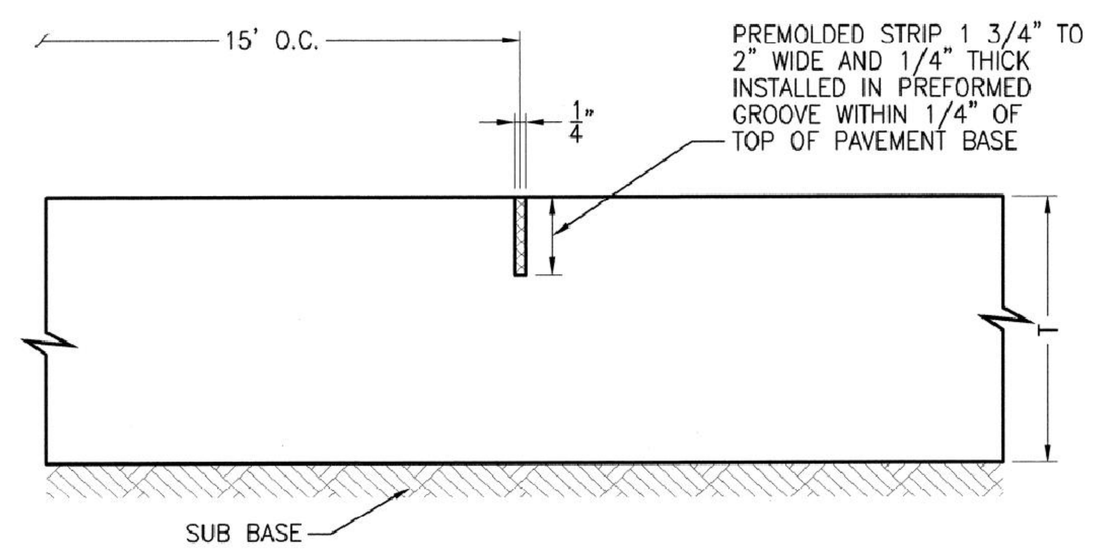


LONGITUDINAL JOINT





TRANSVERSE JOINT

NOTE:

T = CONCRETE PAVEMENT THICKNESS

O.C. = ON CENTER

T	A	B
8"	2 3/4"	2 1/2"
10"	3 3/4"	2 1/2"
12"	4 3/4"	2 1/2"

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EK	11/01/06

PLANS APPROVAL DATE: APRIL 30, 2007
SECTION MANAGER 4/27/07
DEPUTY BUREAU MANAGER 4/30/07
BUREAU MANAGER

STANDARD PLAN
STREETS AND HIGHWAYS
STANDARD JOINTS FOR CONCRETE PAVEMENT BASE

OLD FILE NO. L-26,075 CH 1
FILE NO. 87,174
REV. NO.

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CONSTRUCTION DETAILS
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Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number: C7.33

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.33)
PLOT TIME: 4-28-2017 4:22 PM PLOTTED BY: bum

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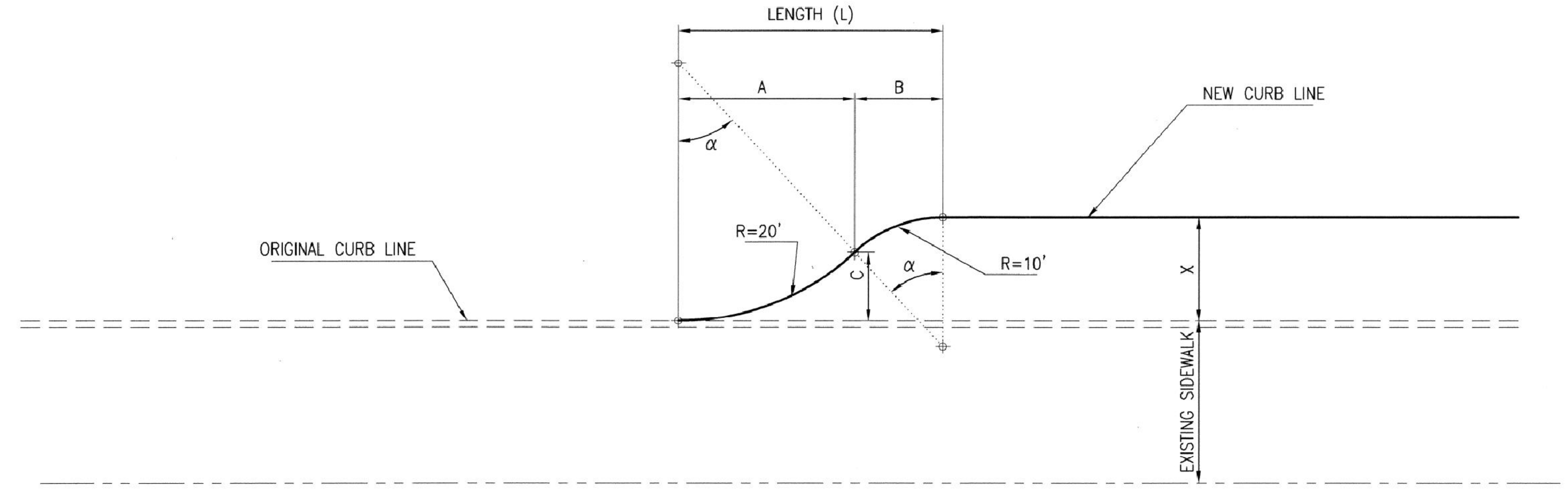

CURB BULBS & OTHER SIDEWALK WIDENING

LAYOUT OF TRANSITION

SIDEWALK WIDENING	LENGTH	A	B	C
4'	15'-0"	10'-0"	5'-0"	2'-8"
5'	16'-7"	11'-1"	5'-6"	3'-4"
6'	18'-0"	12'-0"	6'-0"	4'-0"
7'	19'-3"	12'-10"	6'-5"	4'-8"
8'	20'-5"	13'-7"	6'-10"	5'-4"

FORMULA FOR WIDENING DIMENSIONS:

X = ACTUAL SIDEWALK WIDENING IN FEET

$\alpha = \text{ARCCOS}\left(\frac{30 - X}{30}\right)$

$L = 30 * \text{SIN}\,\alpha$

$A = 20 * \text{SIN}\,\alpha$

$B = 10 * \text{SIN}\,\alpha$

$C = 20 - \left(\frac{A}{\text{TAN}\,\alpha}\right)$

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REVIEWED: PR DATE: 10/01/06
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PLANS APPROVAL DATE: APRIL 30, 2007
SECTION MANAGER 4/27/07
DEPUTY BUREAU MANAGER 4/30/07
BUREAU MANAGER

STANDARD PLAN
STREETS AND HIGHWAYS
CURB BULB & SIDEWALK WIDENING LAYOUT

OLD FILE NO. NONE
FILE NO. 87,175
REV. NO.

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CONSTRUCTION DETAILS
SAN FRANCISCO   SAN FRANCISCO COUNTY   CALIFORNIA

Date: 05/01/17
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Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number: C7.34

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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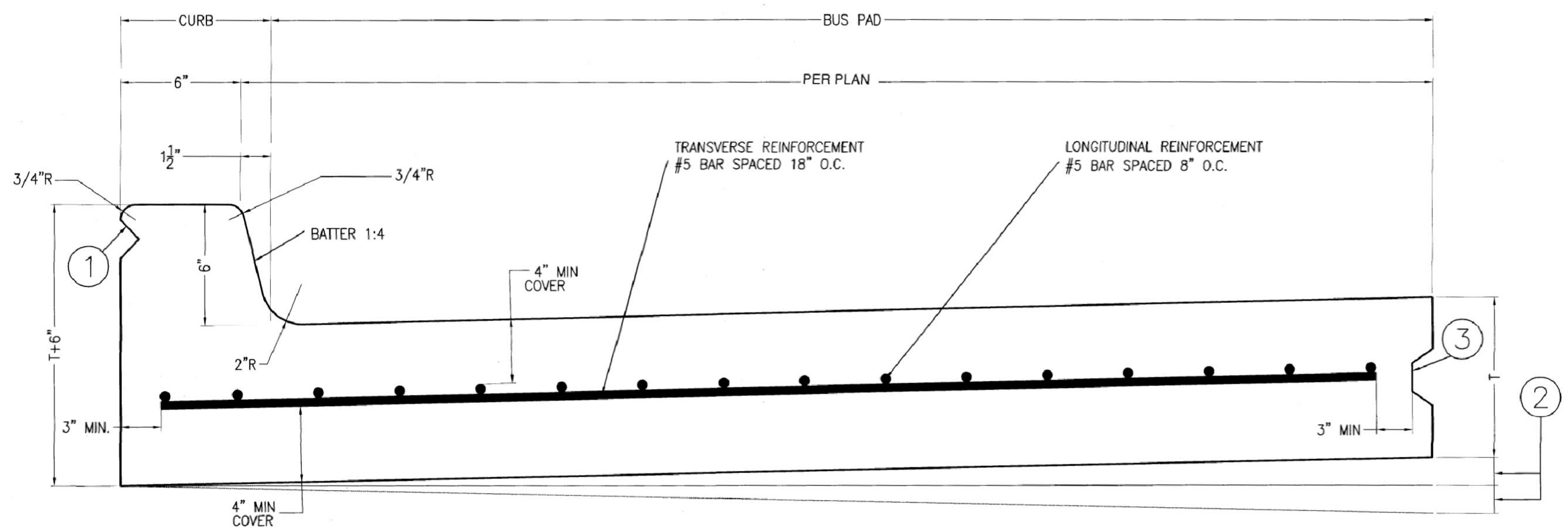
NOTES:

1. LONGITUDINAL JOINTS FOR CONCRETE CURB SHALL BE AS SHOWN ON STANDARD PLAN 87,173
2. SET TO FIT CROWN OR SUPERELEVATION OF ADJACENT ROADWAY
3. LONGITUDINAL JOINT NOT REQUIRED FOR AGGREGATE BASE OR ASPHALT CONCRETE BASE. LONGITUDINAL JOINTS FOR CONCRETE BUS PAD SHALL BE AS SHOWN ON STANDARD PLAN 87,174
4. SEE STANDARD PLAN 87,174 FOR TRANSVERSE JOINT DETAIL

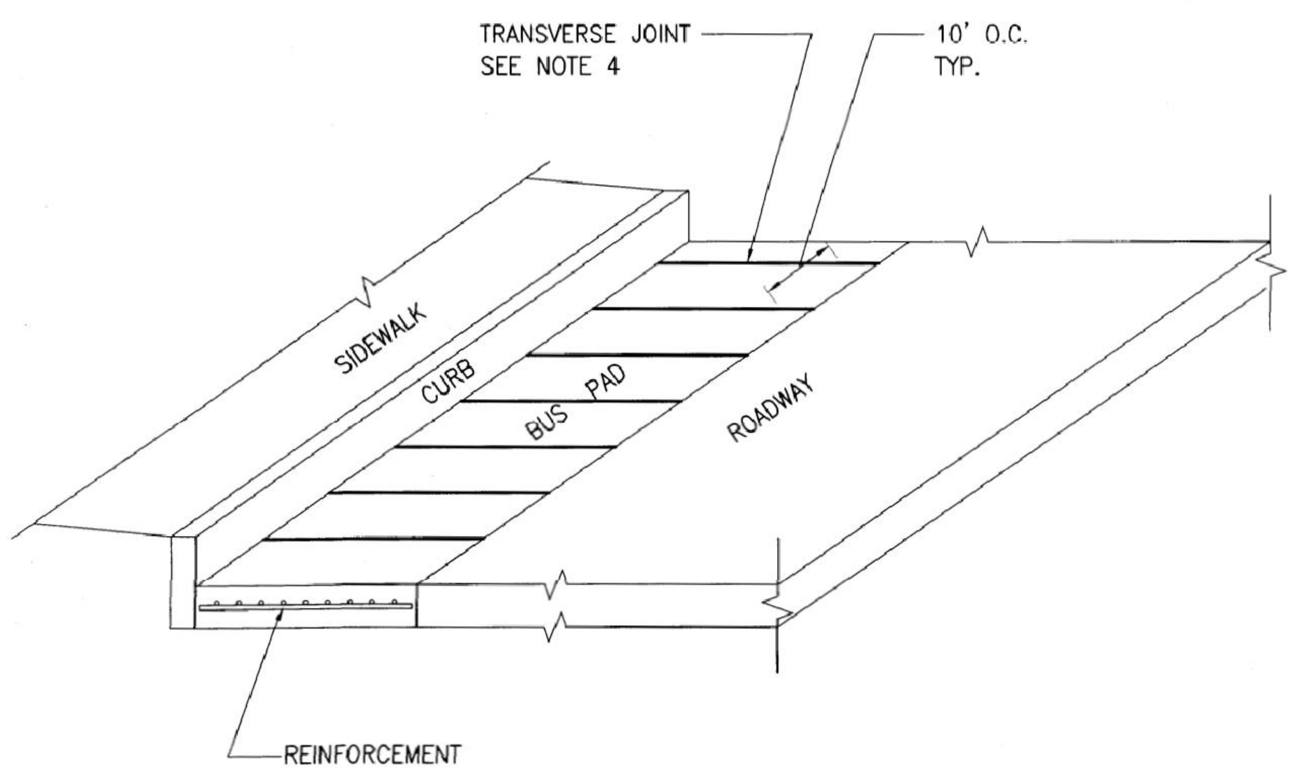
T = 10" MINIMUM THICKNESS

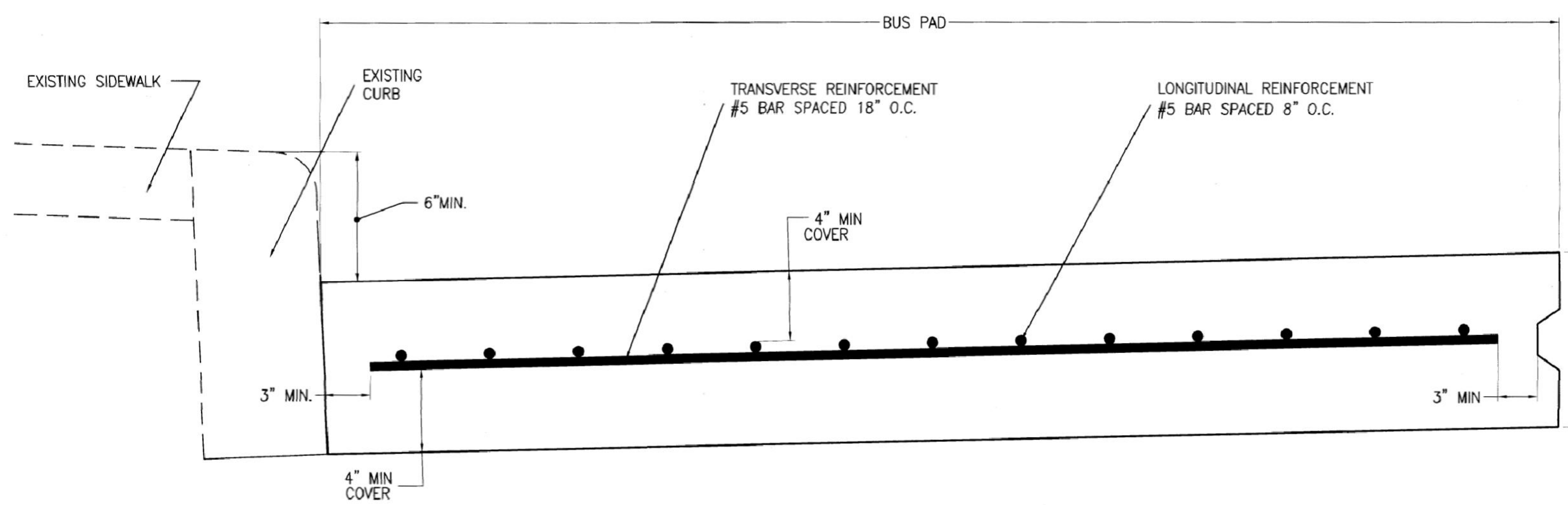
R = RADIUS



COMBINED 6-INCH CONCRETE CURB AND REINFORCED BUS PAD

(NOT TO SCALE)





REINFORCED CONCRETE BUS PAD

(NOT TO SCALE)

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CITY AND COUNTY OF SAN FRANCISCO

REVIEWED: JH	DATE: 05/2013	SECTION MANAGER	DATE: 5/14/13
DRAWN: JH	DATE: 05/2013	DEPUTY DIVISION MANAGER	DATE: 5/15/13
CHECKED: EK	DATE: 05/2013	DIVISION MANAGER	DATE: 5/14/13

APPROVED

STANDARD PLAN
STREETS AND HIGHWAYS
REINFORCED CONCRETE BUS PAD

DRAWING NO. NONE
FILE NO. 96,607
REV. NO.

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CONSTRUCTION DETAILS
SAN FRANCISCO   SAN FRANCISCO COUNTY   CALIFORNIA

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.35

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.35)
PLOT TIME: 4-28-2017 4:22 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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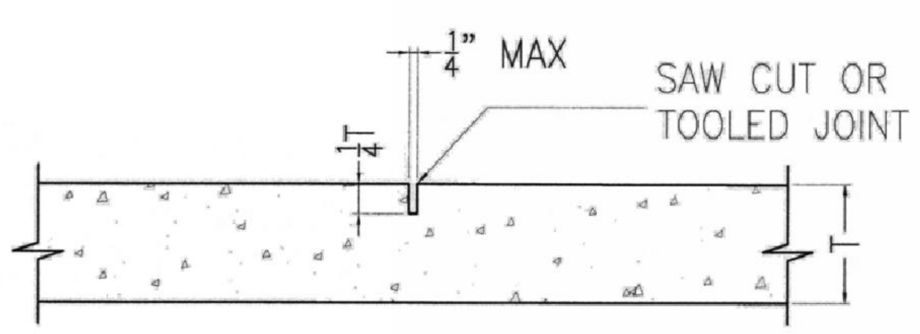
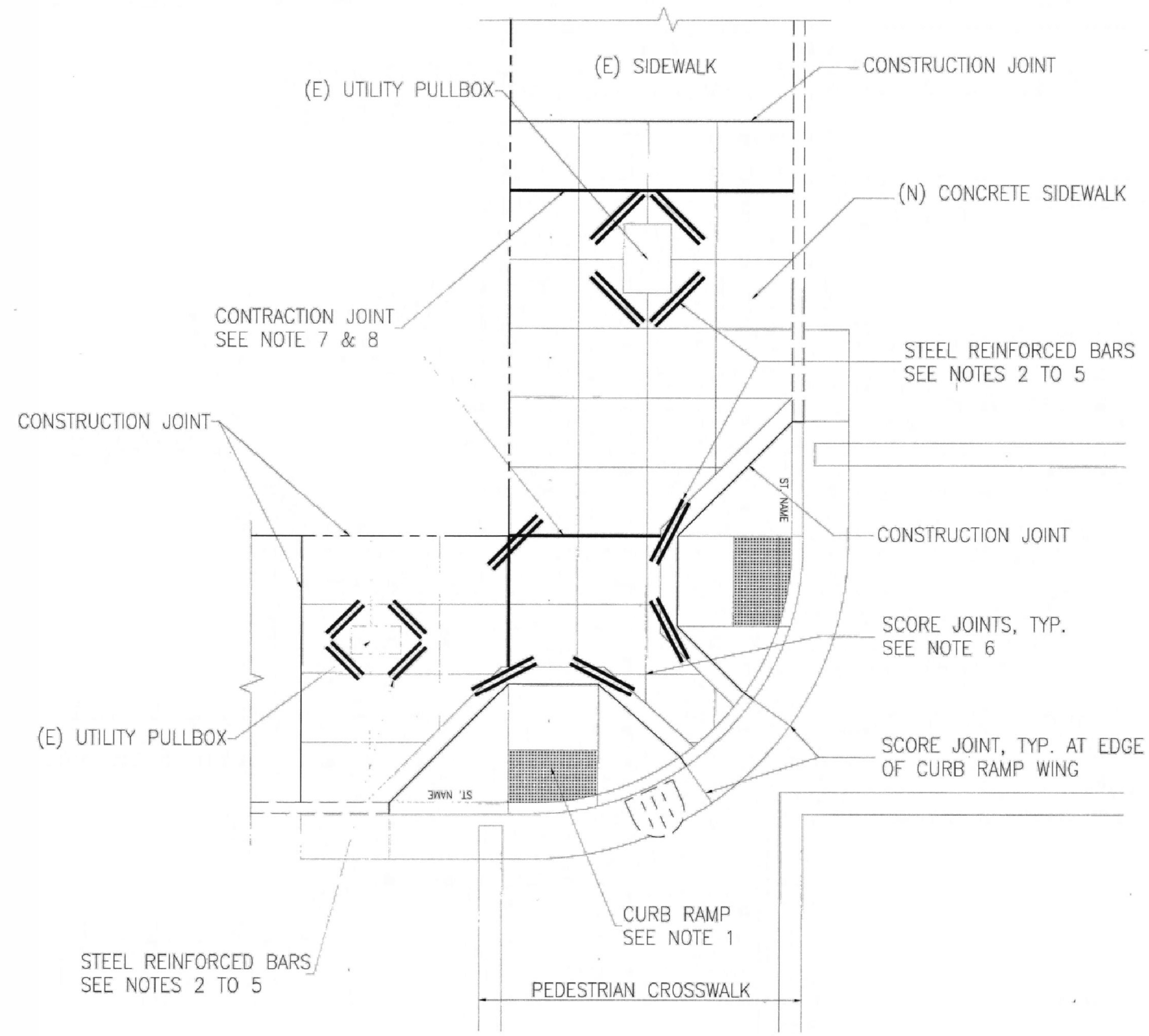
NOTES:

1. ALL CURB RAMPS SHALL BE POURED SEPARATELY FROM SIDEWALK AND SHALL CONTRAST VISUALLY WITH ADJACENT SIDEWALK SURFACES, IN ACCORDANCE WITH CITY STANDARD SIDEWALKS AS DEFINED IN SECTION 204 OF DPW STANDARD SPECIFICATIONS AND CURB RAMP STANDARD PLANS FILE NO 55,017 TO 55,018.
2. CURB RAMP AND SIDEWALK SLAB-ON-GRADE ACCORDING TO SFDPW STANDARD SPECIFICATION SECTION 204 WITH #3 STEEL REINFORCED BARS AT MID-DEPTH OF THE CONCRETE SIDEWALK SLAB.
3. MINIMUM 3-FOOT REINFORCED BAR LENGTH WITH 3-INCH O.C. SPACING. AT LOCATIONS WHERE 3-FOOT REINFORCEMENT BAR LENGTH IS RESTRICTED, 2-FOOT REINFORCEMENT BAR LENGTH IS ACCEPTABLE WITH THE APPROVAL OF THE ENGINEER.
4. A 2-INCH MINIMUM DISTANCE IS REQUIRED FROM THE EDGES OF THE REINFORCEMENT TO A CONSTRUCTION JOINT.
5. INSTALL REINFORCEMENT ON A DIAGONAL TO ALL RE-ENTRANT CORNERS (PROPERTY CORNERS, CURB RAMPS, PULL BOXES, ETC).
6. SCORE JOINTS SHALL HAVE A ¼-INCH DEPTH AND BE IN ACCORDANCE WITH CITY STANDARD SIDEWALKS AS DEFINED IN SECTION 204 OF DPW STANDARD SPECIFICATIONS.
7. CONTRACTION JOINTS SHALL BE SPACED A MAXIMUM OF 15 FEET APART AND SHALL ENCLOSE AN AREA NO MORE THAN 250 SQUARE FEET.
8. FOR SAW CUT CONTRACTION JOINTS, CUT SLAB IMMEDIATELY AFTER INITIAL CONCRETE SET AND BEFORE FINAL CURING.



CONTRACTION JOINT



REINFORCED SIDEWALK PLAN
TYPICAL LAYOUT
(NOT TO SCALE)

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REVIEWED: JH	DATE: 09/2013
DRAWN: JH	DATE: 09/2013
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APPROVED
SECTION MANAGER — DATE: 9/24/13
DEPUTY DIVISION MANAGER — DATE: 9/24/13
DIVISION MANAGER — DATE: 9/25/13

STANDARD PLAN
STREETS AND HIGHWAYS
STEEL REINFORCED BARS FOR SIDEWALK CONSTRUCTION

DRAWING NO. NONE
FILE NO. 96,608
REV. NO.

BKF ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
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Date: 05/01/17
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Approved: BS
Job No: 20090086

Drawing Number: C7.36

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.36)
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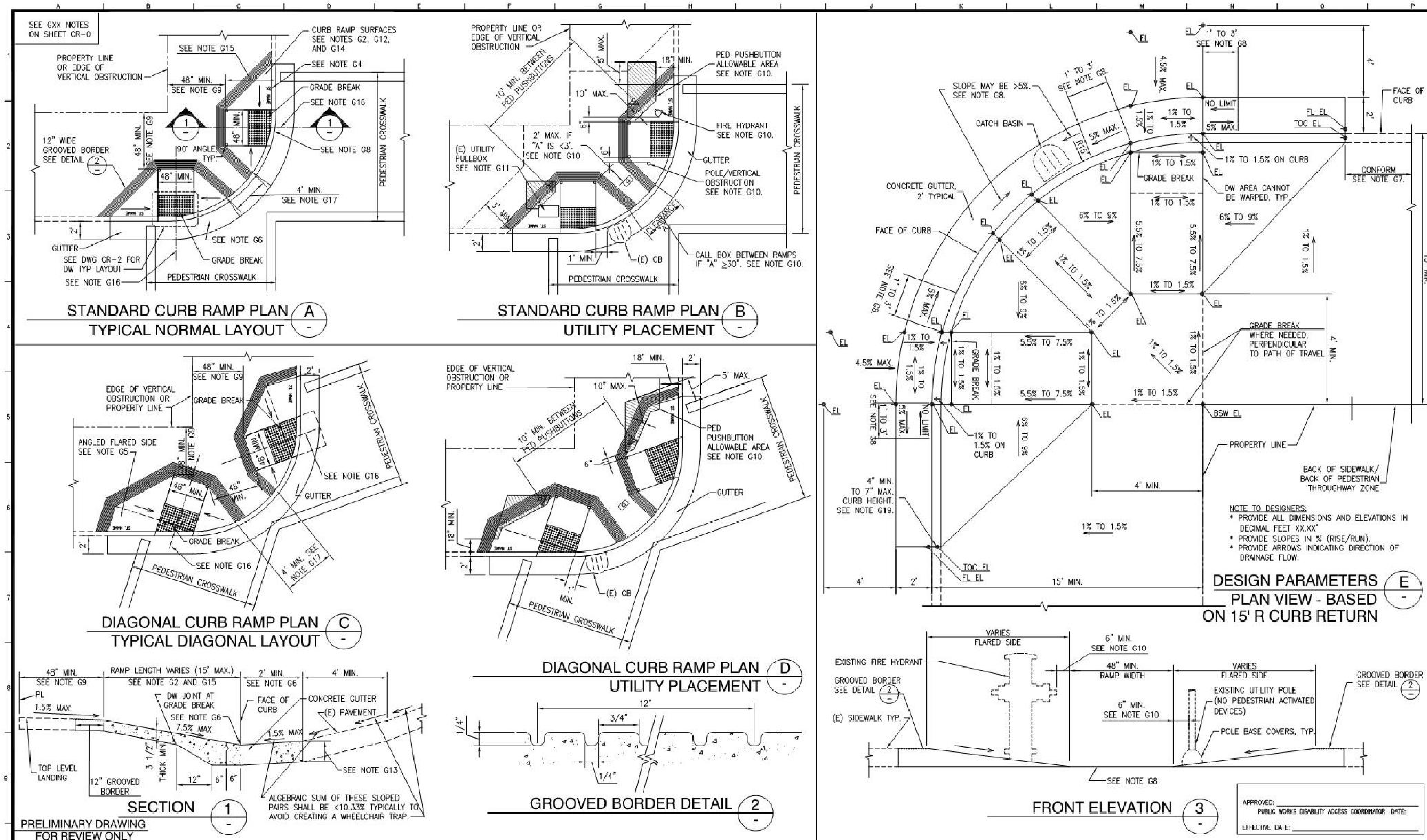

APPROVED: PUBLIC WORKS DISABILITY ACCESS COORDINATOR DATE:

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SAN FRANCISCO, CA 94102 - 5028

Section Mgr:
Deputy Division Mgr:
Division Mgr: PATRICK RIVERA
Date:

DESIGNED: PUBLIC WORKS DATE: 10/15
DRAWN: PUBLIC WORKS DATE: 10/15
CHECKED: PUBLIC WORKS DATE: 10/15

SCALE: NOT TO SCALE
SHEET OF SHEETS: 2 OF 13

ACCESSIBLE STREET CROSSING STANDARDS

STANDARD CURB RAMP PLANS

CONTRACT NO. NONE
DRAWING NO. CR-1
FILE NO. 102,855
REV. NO.

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CONSTRUCTION DETAILS

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.37

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.37)
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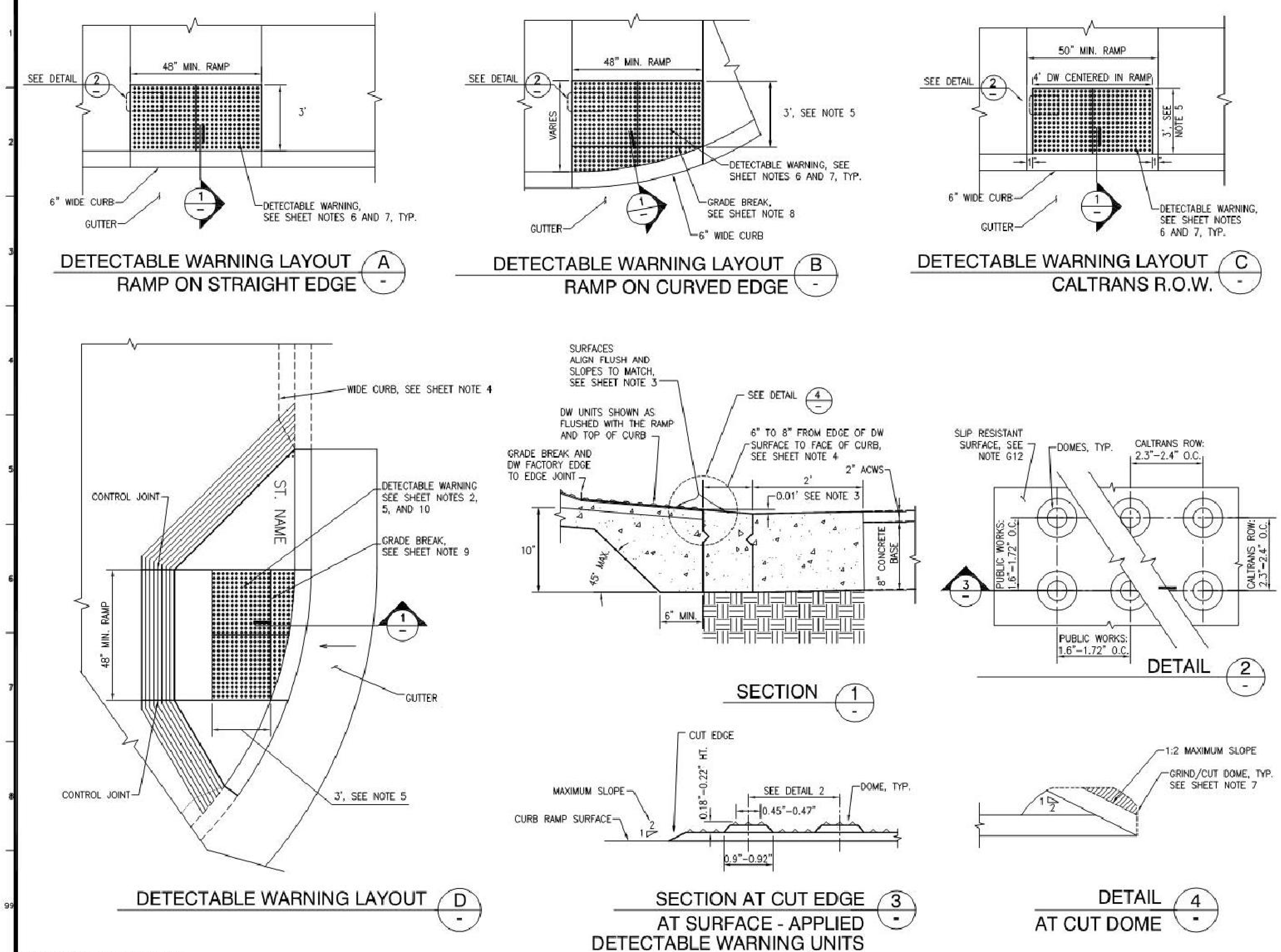

GENERAL NOTES

1. SEE DRAWING CR-0 AND CR-1 FOR ALL GENERAL NOTES AND DETAILS THAT APPLY TO THIS DRAWING.

2. THE DETECTABLE WARNING (DW) DOMES SHALL BE ORIENTED SUCH THAT THE ROWS ARE PARALLEL WITH THE DIRECTION OF THE RAMP. WHEN MULTIPLE TILES REGARDLESS OF SIZE ARE USED, THEN THE DW DOMES SHALL BE ALIGNED BETWEEN THE TILES AND THROUGHOUT THE ENTIRE DW INSTALLATION. DW TILES SHALL HAVE FACTORY EDGES TOGETHER AT JOINTS.

3. THE SLOPE OF THE CURB PORTION OF THE RAMP SHALL BE .01'.

4. WHEN THE CURB IS WIDER THAN 8 INCHES, THE CURB WITHIN THE CURB RAMP SHALL BE 8 INCHES MAXIMUM. THE WIDE CURB OUTSIDE SHALL TRANSITION THROUGH THE GROOVED BORDER AS SHOWN ON THE DRAWING.

5. DW SHALL BE A MINIMUM OF 3' DEEP, MEASURED FROM THE GRADE BREAK.

6. RIGID CEMENTITIOUS DW PANELS MUST LIE IN A SINGLE NON-WARPED PLANE.

7. THE EDGE OF THE SURFACE-APPLIED DW TILE SHALL HAVE A BEVELED EDGE SLOPED AT 1:2 MAXIMUM. WHEN THE SURFACE-APPLIED DW TILE EDGE OR A DOME IS CUT AND THE RESULTING EDGE/DOME IS NOT FLUSH WITH THE SURFACE OF THE CURB RAMP, THE EDGE/DOME SHALL BE BEVELED AT 1:2 MAXIMUM SLOPE, IN ACCORDANCE WITH THE APPROVED DW MANUFACTURER'S REQUIREMENTS. SEE DETAILS 3 AND 4.

8. GRADE BREAK ACROSS THE DW SHALL BE REQUIRED WHEN NECESSARY TO MEET GUTTER ELEVATIONS AND TO LIMIT CROSS-SLOPE ON RAMP TO BE 1.5% MAXIMUM. ADJACENT PANEL EDGES SHALL BE FLUSH (NO VERTICAL OFFSET.)

9. REFERENCE PUBLIC WORKS STANDARD SPECIFICATIONS FOR THE INSTALLATION OF CEMENTITIOUS OR PLASTIC DW TILES AND FOR THE CONSTRUCTION OF CONCRETE SIDEWALK, CURB, GUTTER, AND ASPHALT CONCRETE.

10. INSTALL WHOLE DW TILE UNITS ABOVE GRADE BREAK WITH 3' LONG UNITS. INSTALL FACTORY EDGE OF DW UNITS ALONG GRADE BREAK BETWEEN GRADE BREAK AND BACK OF CURB.

11. SURFACE-APPLIED DW UNITS MAY BE USED ONLY WHERE PROVIDING CAST IN PLACE UNITS IS DOCUMENTED TO BE TECHNICALLY INFEASIBLE AND MUST BE APPROVED BY PUBLIC WORKS ON A CASE BY CASE BASIS.

12. THE COLOR OF THE DW SHALL CONFORM TO FEDERAL STANDARD 595B TABLE IV, COLOR #33538 "FEDERAL YELLOW". NEW AND RETROFITTED RAMP CONSTRUCTION SHALL BE PROVIDED WITH PUBLIC WORKS APPROVED UNITS THAT ARE CAST-IN-PLACE PER MANUFACTURER'S INSTRUCTIONS.

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PUBLIC WORKS DISABILITY ACCESS COORDINATOR DATE:

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SAN FRANCISCO, CA 94102 - 5028

Section Mgr:
Deputy Division Mgr:
Division Mgr: PATRICK RIVERA
Date:

DESIGNED: PUBLIC WORKS	DATE: 10/15
DRAWN: PUBLIC WORKS	DATE: 10/15
CHECKED: PUBLIC WORKS	DATE: 10/15

SCALE: NOT TO SCALE
SHEET OF SHEETS: 3 OF 13

ACCESSIBLE STREET CROSSING STANDARDS

STANDARD CURB RAMPS
DETECTABLE WARNING LAYOUT
DETAILS AND NOTES

CONTRACT NO. NONE
DRAWING NO. CR-2
FILE NO. 102,856
REV. NO.

Drawing Path: \\dpw.ci.sf.ca.us\boe\BOEFILES1\Data\SH\Curb_Ramp_Group\CR presentation\Rev Standard Plans\city-DIM... Measurement Units are English
Plot Time: Wed, 07 Oct 2015 - 2:52pm
Xrefs: S:\SH\Curb_Ramp_Group\CR presentation\DE1_TBD.dwg

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SUITE 200
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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

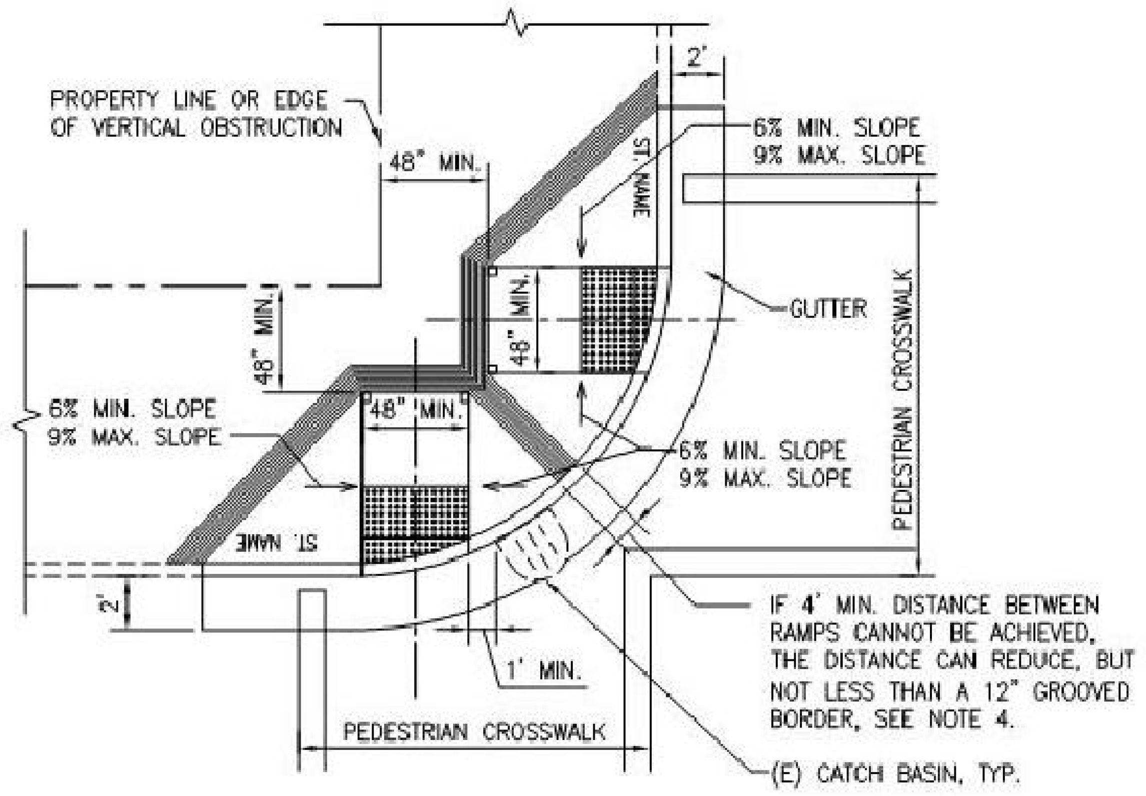
Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.38

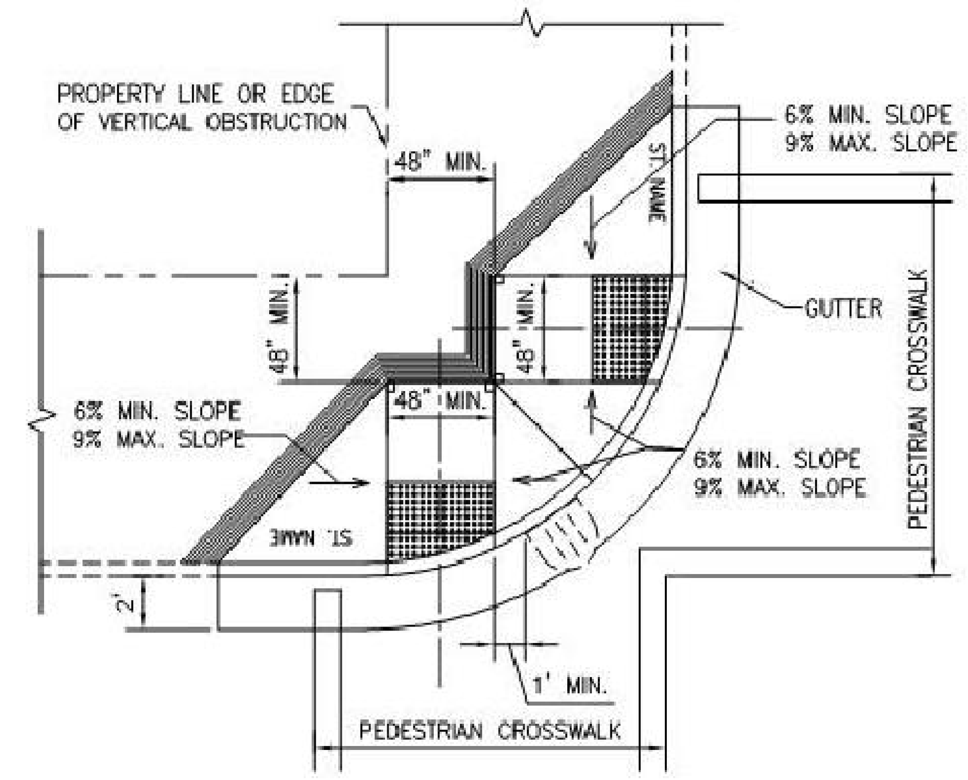
DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.38)
PLOT TIME: 4-28-2017 4:22 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

© BKF ENGINEERS



CURB RAMP ALTERNATE (A)
MERGED GROOVED BORDER



CURB RAMP ALTERNATE (B)
MERGED FLARED SIDES

SHEET NOTES

1. THE ALTERNATE CURB RAMPS SHOWN ON THIS DRAWING SHALL BE USED ONLY WITH PRIOR APPROVAL FROM THE CITY ENGINEER, PUBLIC WORKS DISABILITY ACCESS COORDINATOR, OR THEIR DESIGNEE AND UPON PROPER DOCUMENTATION OF HARDSHIP INDICATING LEGAL AND/OR PHYSICAL CONSTRAINTS.

2. ALL GENERAL NOTES ON DRAWING CR-0 SHALL APPLY TO THIS SHEET. FOR DETECTABLE WARNING DETAILS AND NOTES, SEE DRAWING CR-2.

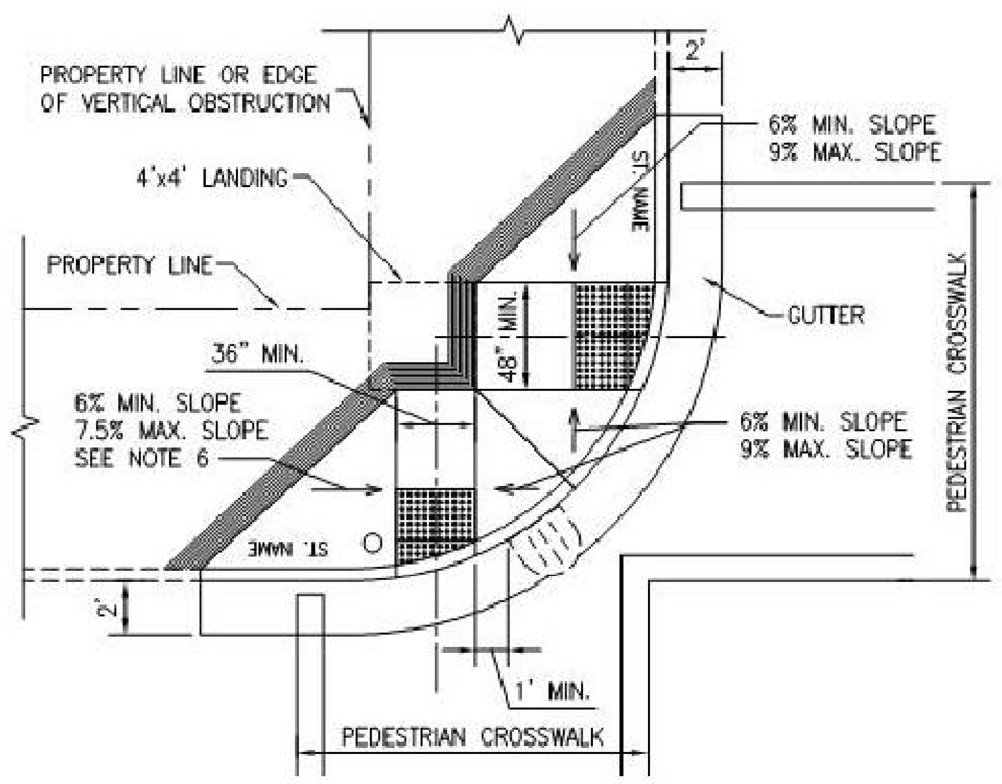
3. THE CURB RAMP ALTERNATES SHALL BE USED IN DESCENDING ORDER OF PRIORITY, FROM ALTERNATE "A" TO "B" TO "C" TO "D" THEN TO "E".

4. ALTERNATE "A" SHALL BE USED WHEN THE 4-FOOT MINIMUM DISTANCE BETWEEN THE TWO CURB RAMPS CANNOT BE ACHIEVED DUE TO HARDSHIP. THE DISTANCE BETWEEN THE TWO RAMPS CAN BE REDUCED TO A 12" GROOVED BORDER. IT IS PREFERRED THAT LARGER THAN 12" DISTANCE BE PROVIDED, AS MUCH AS TECHNICALLY FEASIBLE.

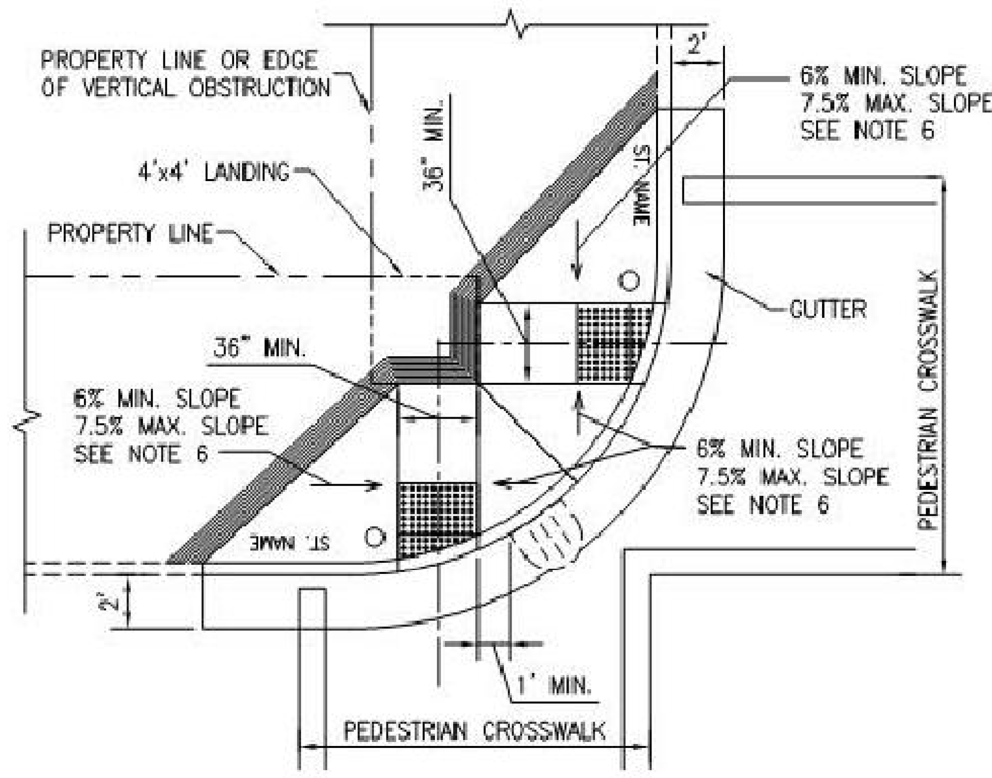
5. ALTERNATE "B" SHALL BE USED WHEN THE SPACE WITHIN THE CURB RETURN IS LIMITED AND OMITTING THE MERGED GROOVED BORDER WILL ALLOW THE INSTALLATION OF TWO ADJACENT CURB RAMPS.

6. WHEN THE RAMP WIDTH IS LESS THAN 48 INCHES OR THE TOP LANDING WIDTH IS LESS THAN 48 INCHES, THEN THE SLOPE OF THE FLARED SIDES SHALL BE 7.5% MAXIMUM, 6% MINIMUM.

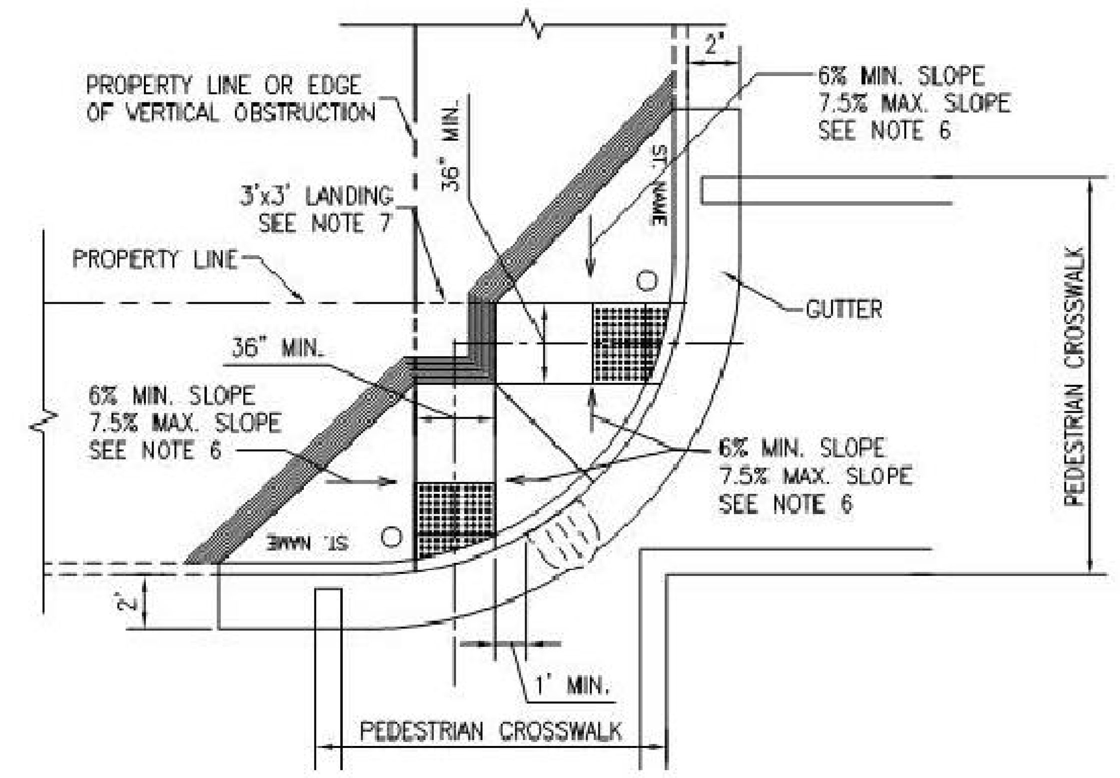
7. WHERE THE CURB RAMP TOP LANDING CLEARANCE MUST BE <48" AT LOCATIONS WHERE IT IS DOCUMENTED TO BE TECHNICALLY INFEASIBLE TO PROVIDE 48" MINIMUM LENGTH AND WIDTH, THE LANDING MAY BE REDUCED, BUT SHALL NOT BE <36". EXTREME TECHNICALLY INFEASIBLE LOCATIONS THAT CANNOT BE PROVIDED WITH 36" LANDING MUST BE APPROVED AND DOCUMENTED ON A CASE BY CASE BASIS BY PUBLIC WORKS.



CURB RAMP ALTERNATE (C)
48" TOP LANDING - 36" AND 48" RAMPS



CURB RAMP ALTERNATE (D)
48" TOP LANDING - 36" RAMPS



CURB RAMP ALTERNATE (E)
36" TOP LANDING - 36" RAMPS

APPROVED: ____________________
PUBLIC WORKS DISABILITY ACCESS COORDINATOR DATE:
EFFECTIVE DATE: ____________________

PRELIMINARY DRAWING
FOR REVIEW ONLY

NO.	DATE	DESCRIPTION	BY	APP.

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 10/07/15 14:56, BY: efontejo

REFERENCE INFORMATION & FILE NO. OF SURVEYS

SEAL OF THE CITY AND COUNTY OF SAN FRANCISCO

SAN FRANCISCO PUBLIC WORKS

DESIGN & ENGINEERING
PUBLIC WORKS
CITY & COUNTY OF SAN FRANCISCO
30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102 - 6026

	Date:
Section Mgr:	
Deputy Division Mgr:	
Division Mgr: PATRICK RIVERA	

	DATE:
DESIGNED: PUBLIC WORKS	10/15
DRAWN: PUBLIC WORKS	10/15
CHECKED: PUBLIC WORKS	10/15

SCALE: NOT TO SCALE
SHEET OF SHEETS: 4 OF 13

ACCESSIBLE STREET CROSSING STANDARDS

ALTERNATE CURB RAMPS
MERGED GROOVED BORDER CURB RAMP PLANS

CONTRACT NO. NONE
DRAWING NO. CR-3
FILE NO. 102,857
REV. NO.

Xrefs: S:\SH\Curb_Ramp_Group\CR presentation\DE1_TBD.dwg

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Plot Time: Wed, 07 Oct 2015 - 2:58pm
Measurement Units are English Model Units: Feet

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.39)
PLOT TIME: 4-28-2017 4:22 PM PLOTTED BY: bum

255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)
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PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

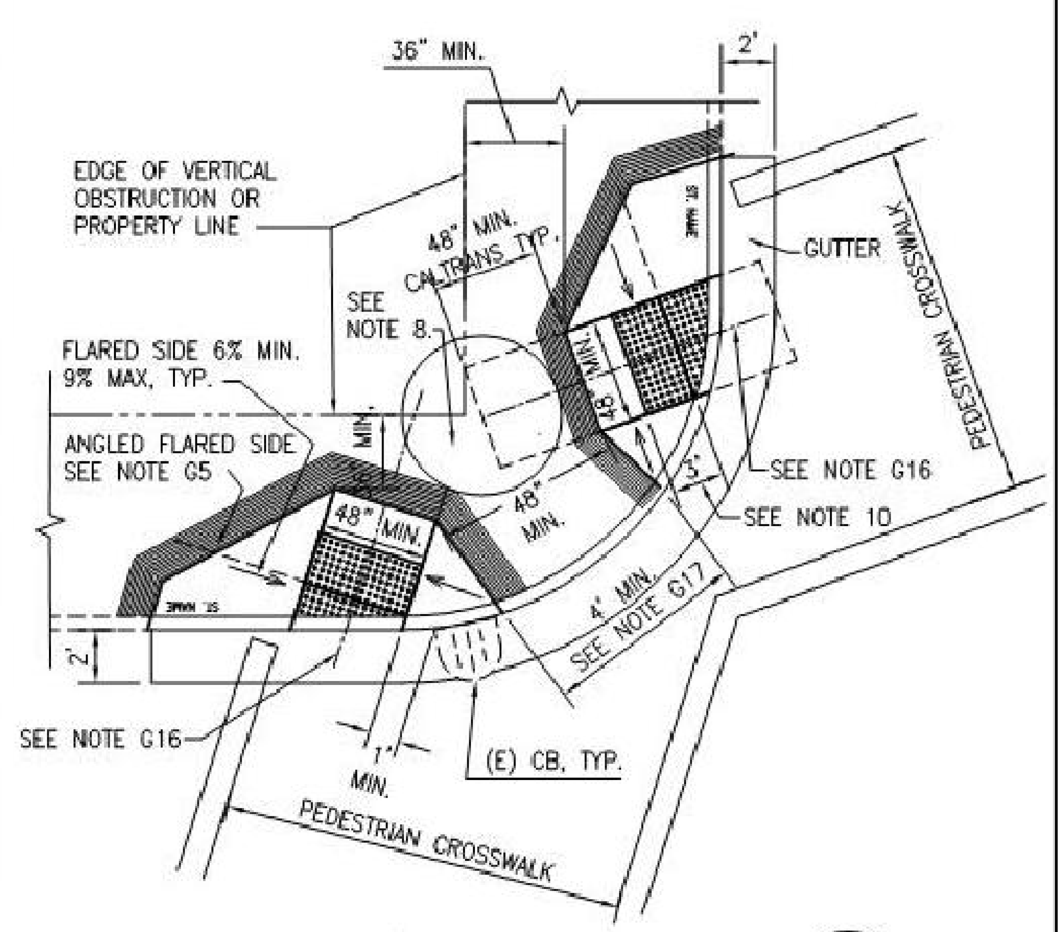
REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA, CIVIL, EXP. 12/31/18

No.	Revisions

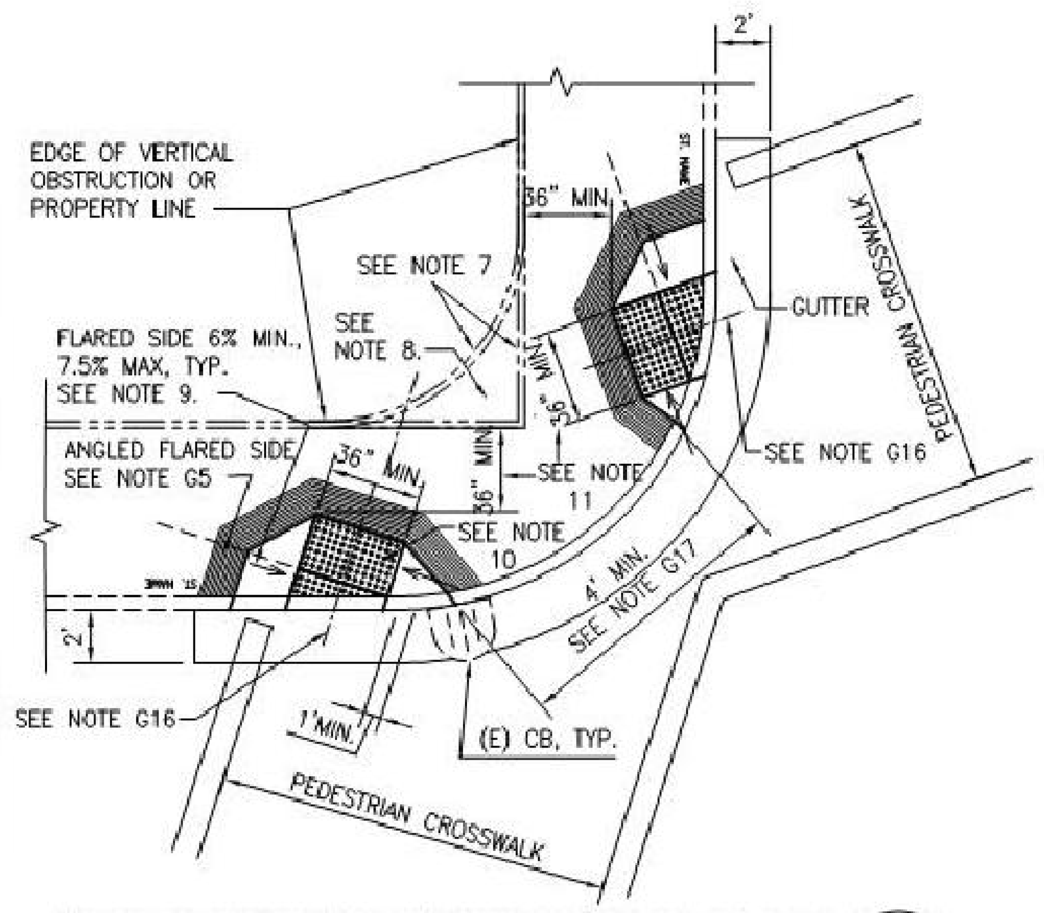
Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number: C7.39

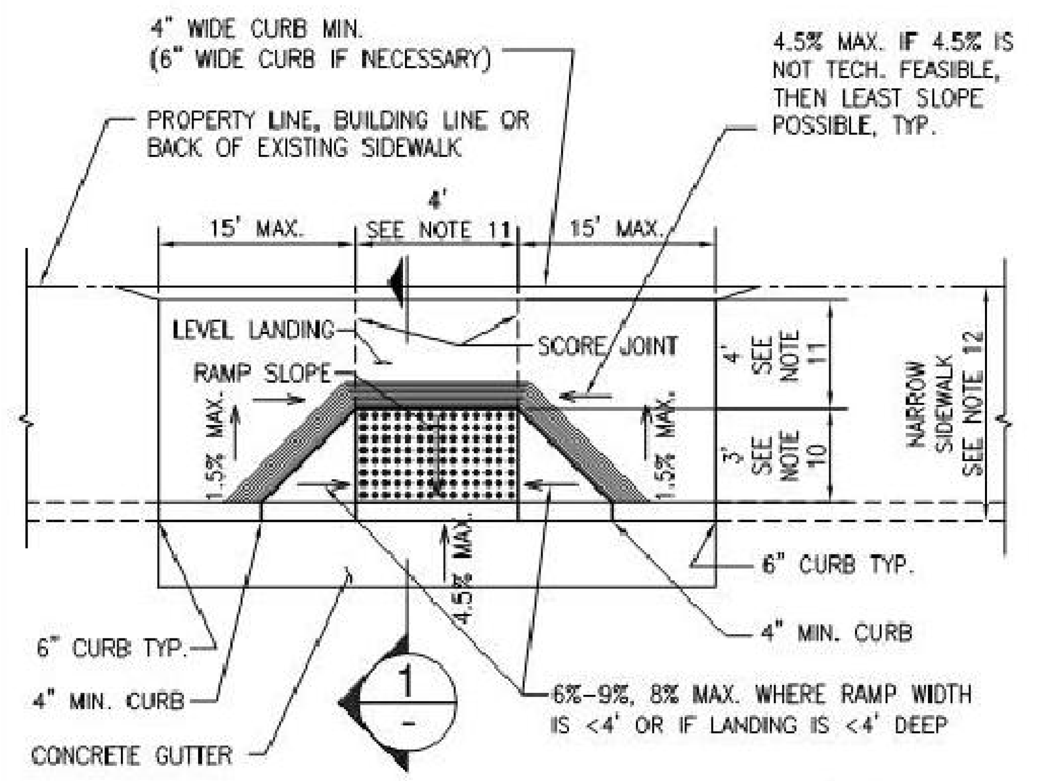
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



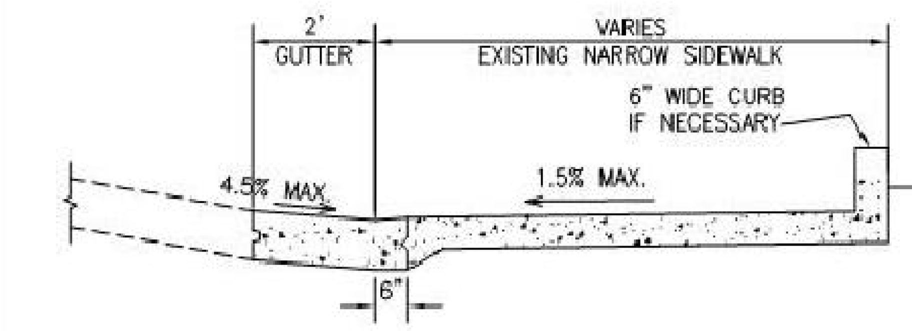
ALTERNATE CURB RAMP PLAN (A1)
TYPICAL DIAGONAL LAYOUT



ALTERNATE MINI-CURB RAMP PLAN (A2)
TYPICAL DIAGONAL LAYOUT



ALTERNATE CURB RAMP (B)
MINI PARALLEL RAMP



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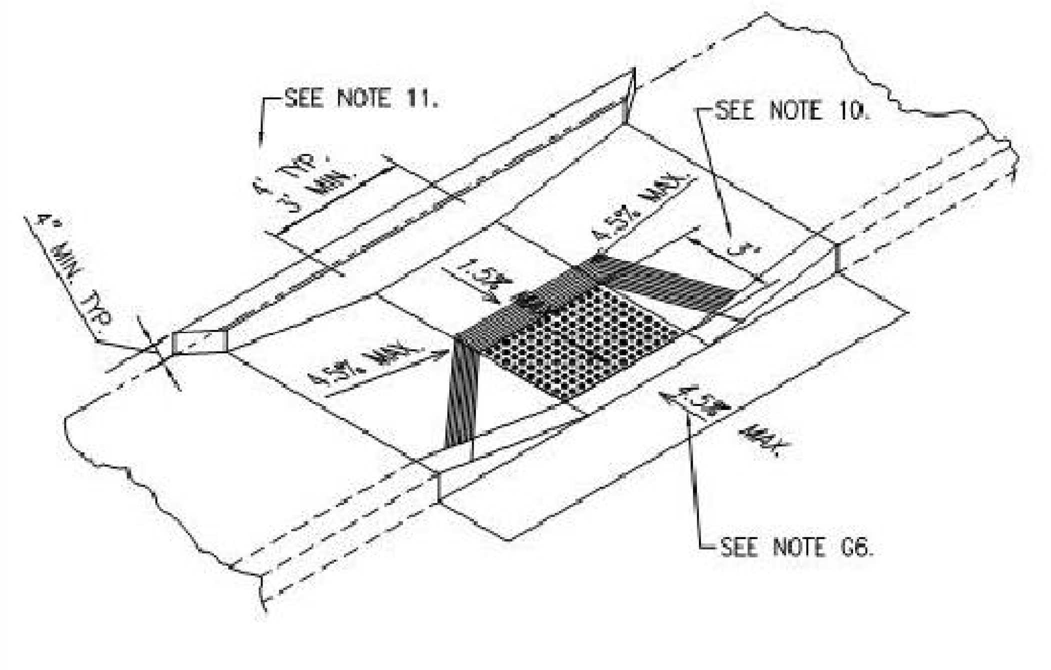
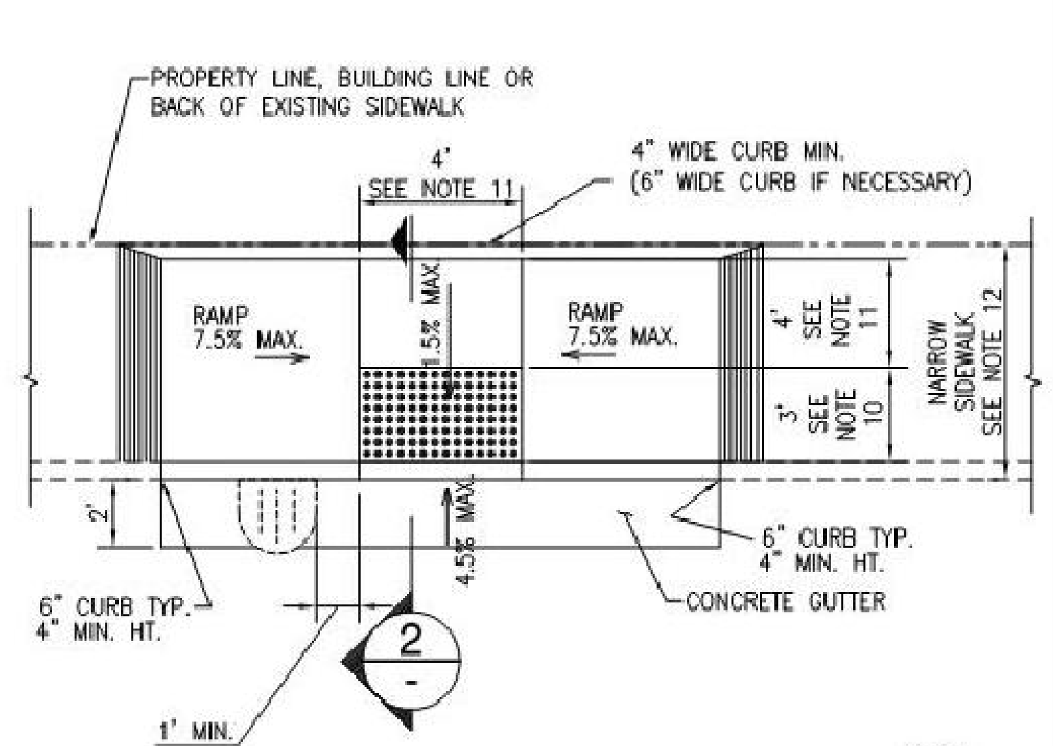
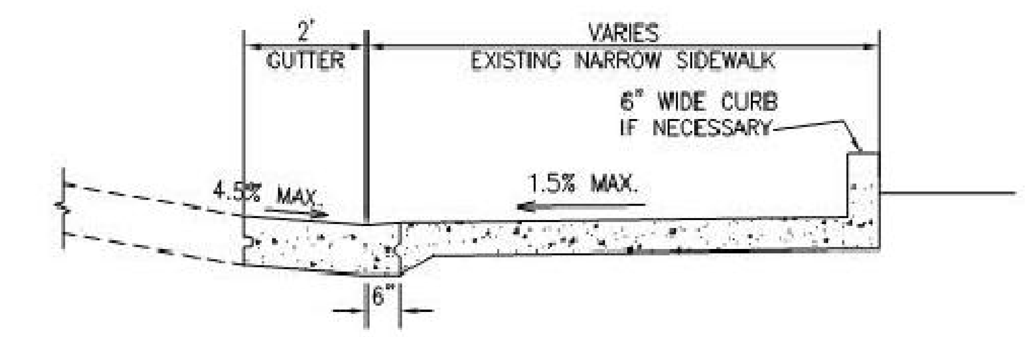


ISOMETRIC



ALTERNATE CURB RAMP (C)
PARALLEL RAMP



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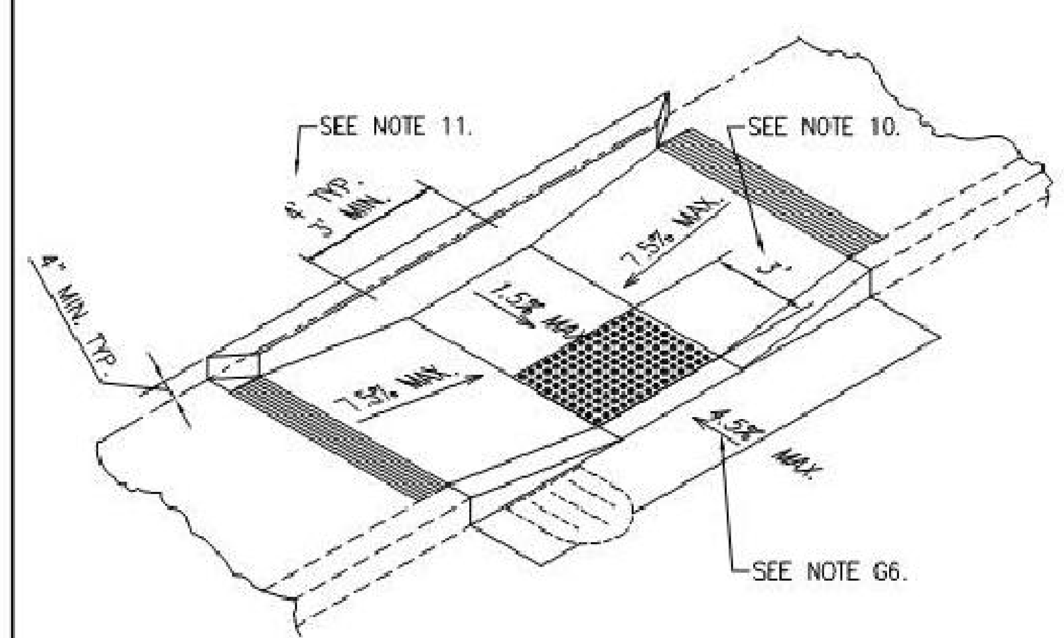

ISOMETRIC

SHEET NOTES

1. THE ALTERNATE CURB RAMPS SHOWN ON THIS DRAWING SHALL BE USED ONLY WITH PRIOR APPROVAL FROM THE CITY ENGINEER, PUBLIC WORKS DISABILITY ACCESS COORDINATOR, OR THEIR DESIGNEE AND UPON PROPER DOCUMENTATION OF HARDSHIP INDICATING LEGAL AND OR PHYSICAL CONSTRAINTS. WHERE ALTERNATE CURB RAMP "B" IS TECHNICALLY FEASIBLE OR STRUCTURALLY POSSIBLE, IT SHALL TYPICALLY BE USED IN LIEU OF ALTERNATE "C" AND SHALL BE DIRECTIONAL WITH THE CROSSWALK.

2. ALL GENERAL NOTES ON DRAWING CR-0 SHALL APPLY TO THIS SHEET. FOR DETECTABLE WARNING DETAILS AND NOTES, SEE DRAWING CR-2.

3. THE CURB RAMP EXCEPTIONS SHALL BE USED IN DESCENDING ORDER OF PRIORITY, FROM EXCEPTION "A1" TO "A2" TO "B" TO "C".

4. ALTERNATE "B" CURB RAMP SHALL BE USED AS A VARIATION OF A STANDARD CURB RAMP AT NARROW SIDEWALK LOCATIONS WHERE THERE IS ENOUGH ROOM FOR TOP LEVEL LANDING.

5. ALTERNATE "C" CURB RAMP SHALL BE USED ON SIDEWALKS AT MID-BLOCK LOCATIONS AND OTHER LOCATIONS WHERE THE STANDARD CURB RAMP LAYOUT AND CURB RAMP ALTERNATES A1, A2, AND B ON SHEET CR-4 ARE NOT TECHNICALLY FEASIBLE. A 6-INCH WIDE CURB SHALL BE INSTALLED ALONG THE EDGE OF THE BACK OF SIDEWALK, ONLY WHEN NECESSARY.

6. IT IS PREFERRED TO USE CURB RAMP DESIGNS THAT PLACE DW ON A SLOPE IN ORDER FOR RAIN TO WASH DEBRIS AWAY AND OFF OF RAMPS.

7. CONSTRUCT CURB TO RETAIN LANDSCAPING AS NEEDED WHERE SIDEWALK SURFACE IS LOWERED TO FIT CURB RAMPS.

8. LOWER SIDEWALK TO FIT DIRECTIONAL CURB RAMPS.

9. WHEN RAMP WIDTH, TOP LANDING WIDTH, AND/OR LENGTH OF TOP LANDING IN DIRECTION OF RAMP IS LESS THAN 4 FEET, FLARED SIDE IS TO BE DESIGNED AT A MAXIMUM 7.5% SLOPE PERPENDICULAR TO THE RAMP. CONSTRUCTED MAXIMUM SLOPE FOR FLARED SIDE IS 8.33% UNDER THESE SAME CONSTRAINTS.

10. DEPTH OF DW MAY BE REDUCED TO AS LITTLE AS 2 FEET IN ORDER TO PROVIDE THE MOST COMPLIANT UPPER LANDING DEPTH.

11. 4' RAMP WIDTH AND 4' UPPER LANDING DEPTH ARE REQUIRED MINIMUM DIMENSIONS. THESE DIMENSIONS MAY BE REDUCED TO AS LITTLE AS 3' WHERE IT IS TECHNICALLY INFEASIBLE TO DO OTHERWISE.

12. SIDEWALK WITH A WIDTH OF LESS THAN OR EQUAL TO 7'6" IS CONSIDERED A "NARROW SIDEWALK." WHEN SIDEWALK IS LESS THAN OR EQUAL TO 7'6" AND GREATER THAN 5'6", ALTERNATE CURB RAMP "B" IS PREFERRED. ALTERNATE CURB RAMP "C" IS USED WHERE SIDEWALK IS LESS THAN OR EQUAL TO 5'6".

APPROVED: ____________________
PUBLIC WORKS DISABILITY ACCESS COORDINATOR DATE:
EFFECTIVE DATE: ____________________

PRELIMINARY DRAWING
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NO.	DATE	DESCRIPTION	BY	APP.

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 10/07/15 15:10, BY: efontejo

REFERENCE INFORMATION & FILE NO. OF SURVEYS

SAN FRANCISCO PUBLIC WORKS

DESIGN & ENGINEERING
PUBLIC WORKS
CITY & COUNTY OF SAN FRANCISCO
30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102 • 6028

Section Mgr:
Deputy Division Mgr:
Division Mgr: PATRICK RIVERA
Date:

DESIGNED: PUBLIC WORKS DATE: 10/15
DRAWN: PUBLIC WORKS DATE: 10/15
CHECKED: PUBLIC WORKS DATE: 10/15

SCALE: NOT TO SCALE
SHEET OF SHEETS: 5 OF 13

ACCESSIBLE STREET CROSSING STANDARDS

ALTERNATE CURB RAMPS AT NARROW SIDEWALKS

CONTRACT NO. NONE
DRAWING NO. CR-4
FILE NO. 102,858
REV. NO.

Drawing Path: \\dpw.ci.sf.ca.us\bos\BOEFILES1\Data\SH\Curb_Ramp_Group\CR presentation\Rev Standard Plans\ctly Dividing Scale: #
Plot Time: Wed, 07 Oct 2015 – 3:11pm

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CONSTRUCTION DETAILS
SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

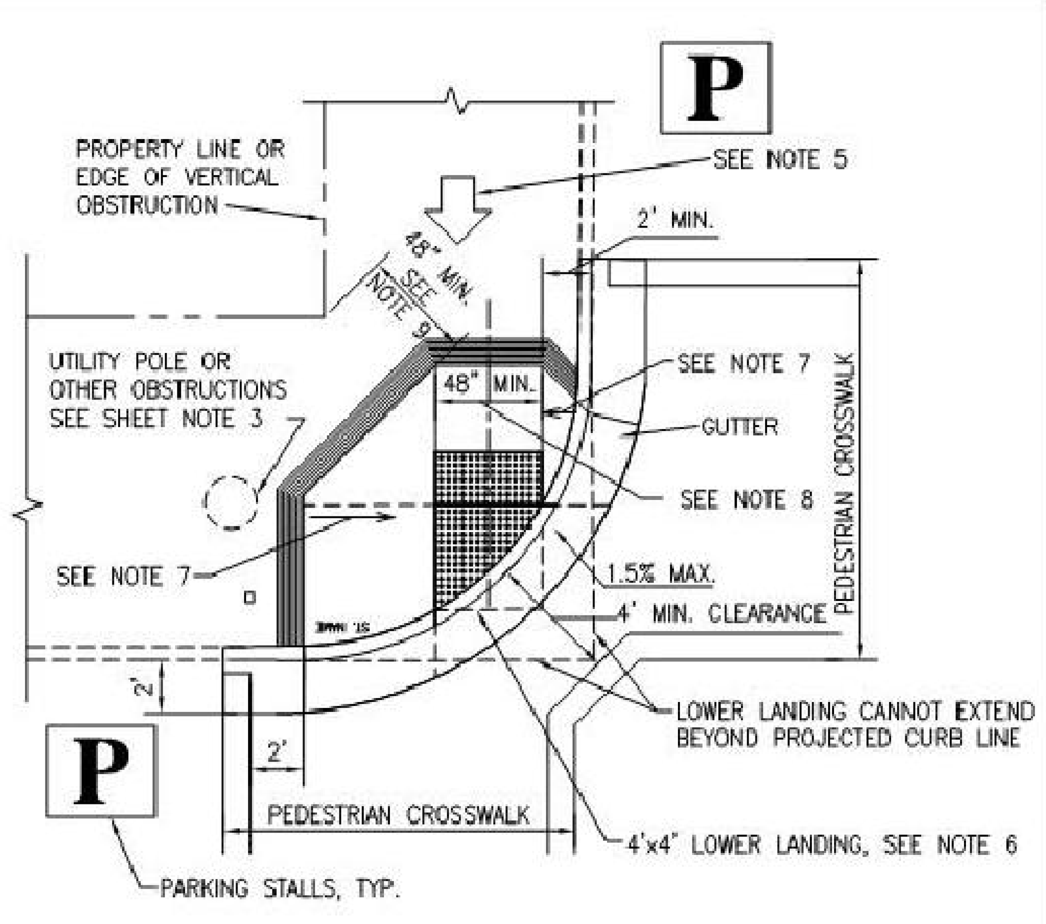
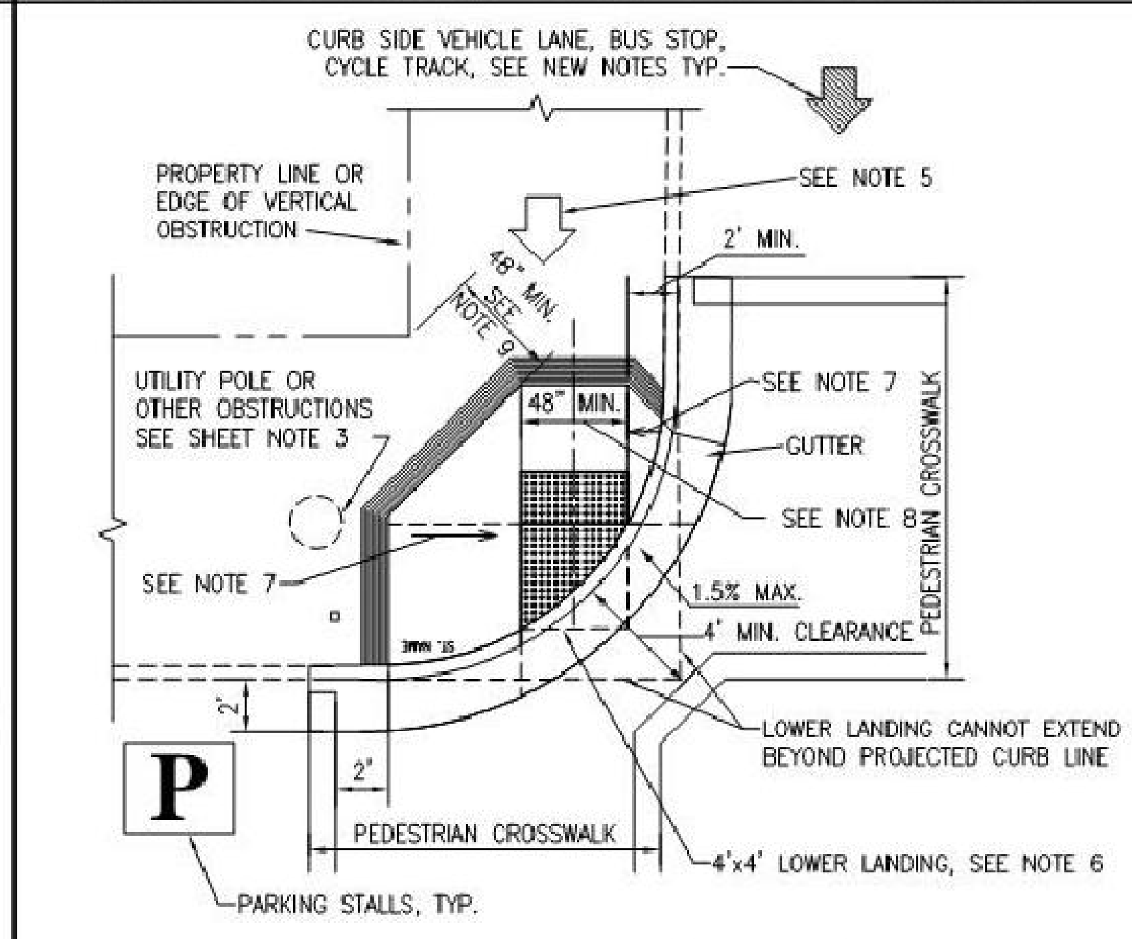
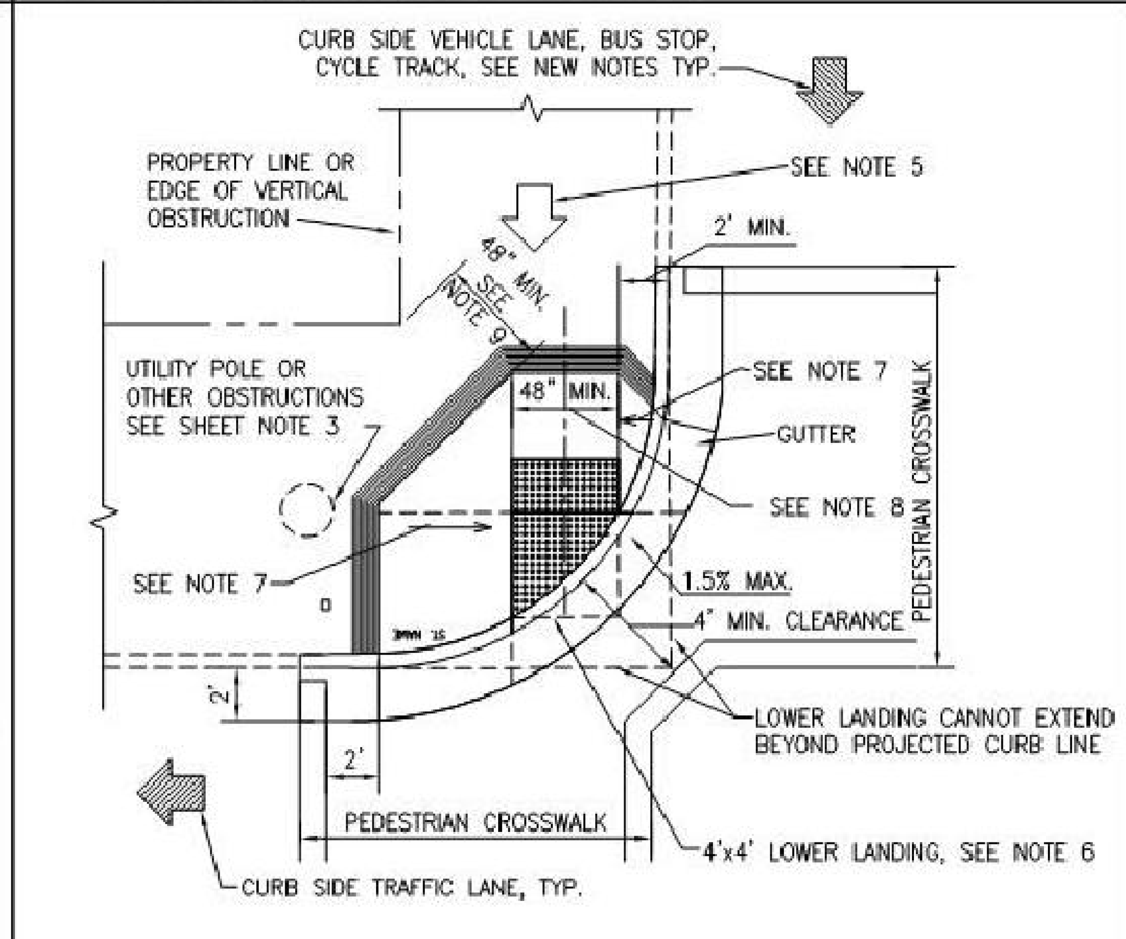
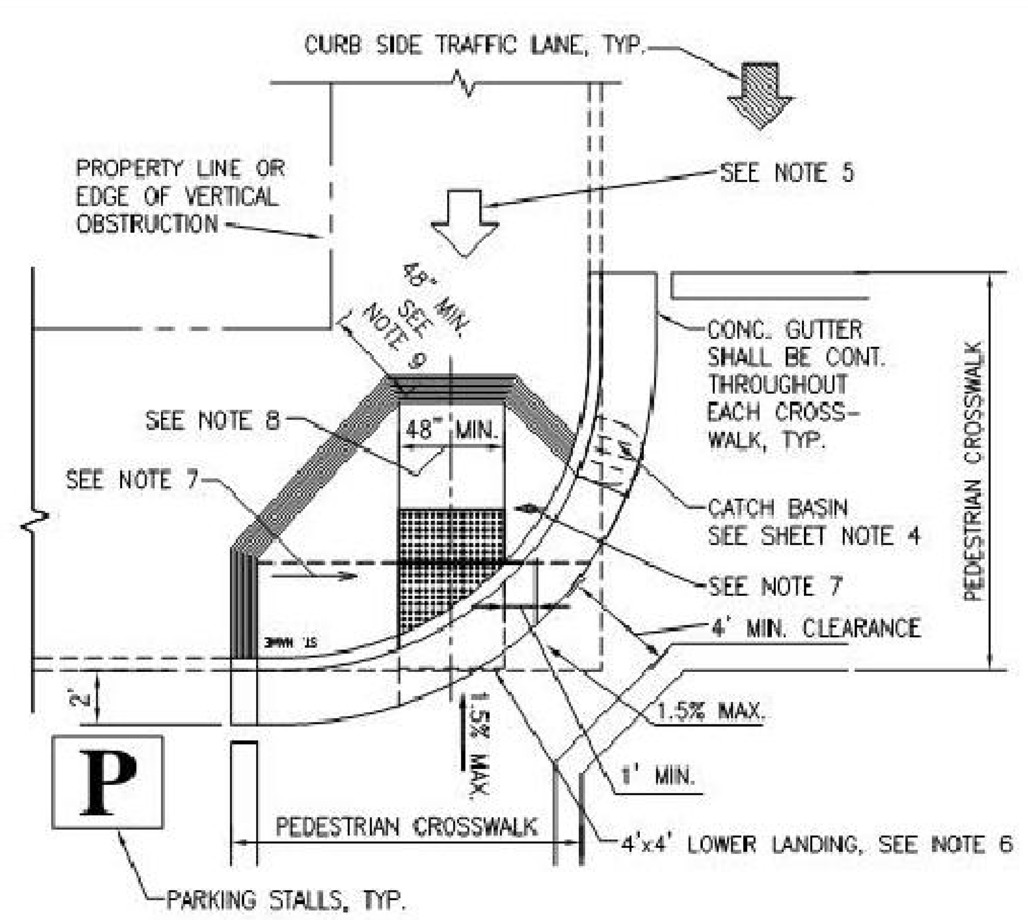
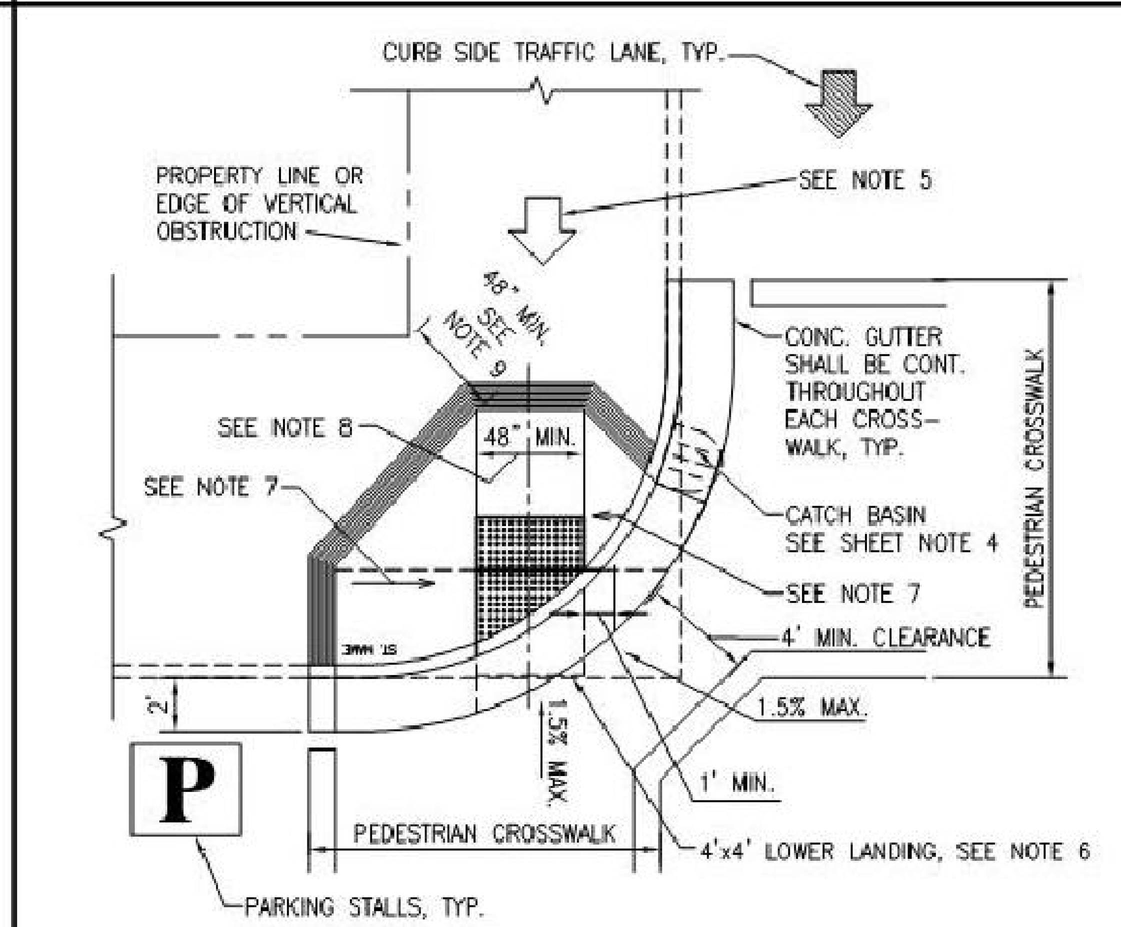
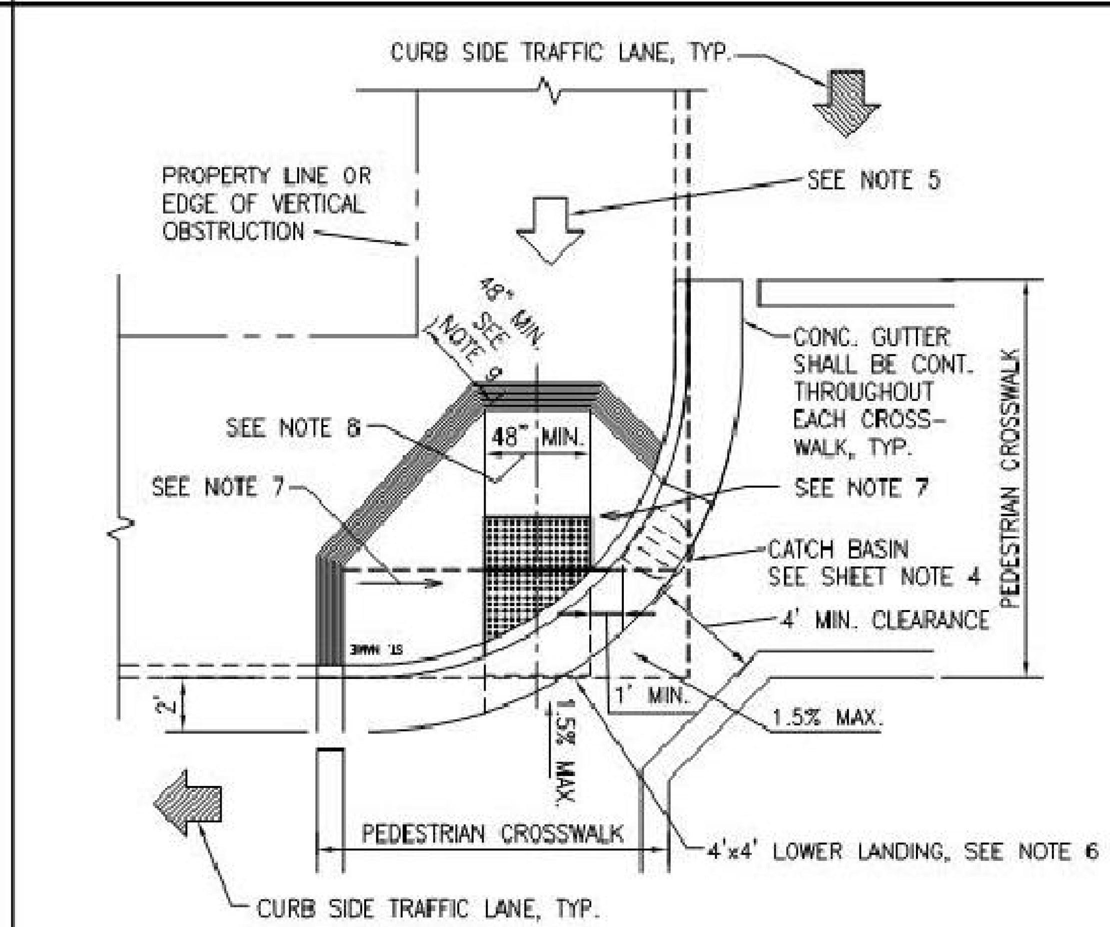
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.40

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.40)
PLOT TIME: 4-28-2017 4:22 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

	COLUMN A LOCATIONS WITH FULL TIME CURB SIDE PARKING ON EACH CURB FACE ADJACENT TO CURB RETURN AREA	COLUMN B LOCATIONS WITH FULL TIME CURB SIDE PARKING ON ONE CURB FACE AND CURB SIDE TRAFFIC LANE INCLUDING RUSH HOUR LANE OR BUS STOP ON THE OTHER CURB FACE	COLUMN C LOCATIONS WITH CURB SIDE TRAFFIC LANE (INCLUDING RUSH HOUR LANE OR BUS STOP ON OTHER CURB FACE ADJACENT TO CURB RETURN AREA
ROW 1 NO STORM DRAIN CATCH BASIN INLET IN CURB RETURN	 SINGLE CURB RAMP EXCEPTION (A1) PARKING ON BOTH SIDES - NO CATCH BASIN	 SINGLE CURB RAMP EXCEPTION (B1) PARKING ON ONE SIDE - NO CATCH BASIN	 SINGLE CURB RAMP EXCEPTION (C1) NO PARKING - NO CATCH BASIN
ROW 2 WITH STORM DRAIN CATCH BASIN INLET IN CURB RETURN	 SINGLE CURB RAMP EXCEPTION (A2) PARKING ON BOTH SIDES - WITH CATCH BASIN	 SINGLE CURB RAMP EXCEPTION (B2) PARKING ON ONE SIDE - WITH CATCH BASIN	 SINGLE CURB RAMP EXCEPTION (C2) NO PARKING - WITH CATCH BASIN

SHEET NOTES

1. THE EXCEPTION CURB RAMPS SHOWN ON THIS DRAWING SHALL BE USED ONLY WITH PRIOR APPROVAL FROM THE CITY ENGINEER, PUBLIC WORKS DISABILITY ACCESS COORDINATOR, OR THEIR DESIGNEE AND UPON PROPER DOCUMENTATION INDICATING LEGAL AND/OR PHYSICAL CONSTRAINTS. ONE CURB RAMP MAY SERVE TWO CROSSWALKS THAT MEET AT A SINGLE CURB RETURN ONLY WHERE IT HAS BEEN DOCUMENTED THAT PROVIDING TWO CURB RAMPS AT SUCH A LOCATION IS TECHNICALLY INFEASIBLE.

2. ALL GENERAL NOTES ON DRAWING CR-0 SHALL APPLY TO THIS SHEET. FOR DETECTABLE SURFACE DETAILS AND NOTES, SEE DRAWING CR-2.

3. SINGLE CURB RAMP EXCEPTION PLANS A1, B1, AND C1 OCCUR WHEN (E) VERTICAL OBSTRUCTIONS, SUCH AS UTILITY POLES, ELECTRICAL CABINETS, FIRE HYDRANTS, OR (E) TOPOGRAPHIC CONSTRAINTS PROHIBIT THE INSTALLATION OF TWO CURB RAMPS.

4. SINGLE CURB RAMP EXCEPTION PLANS A2, B2, AND C2 OCCUR WHEN AN (E) CATCH BASIN AT THE CURB RETURN OR (E) TOPOGRAPHIC CONSTRAINTS PROHIBIT THE INSTALLATION OF TWO CURB RAMPS.

5. THE DIRECTION OF THE RAMP SHALL FOLLOW THE PREDOMINANT PEDESTRIAN PATH OF TRAVEL WHERE FEASIBLE.

6. PROVIDE A 4'x4' LOWER LANDING. THE LOWER LANDING MAY SLOPE 1.5% MAXIMUM IN EACH DIRECTION. LOWER LANDING SHALL NOT EXTEND BEYOND PROJECTED FACE OF THE CURB LINE (PROWAG R304.5.5) UNLESS TECHNICALLY INFEASIBLE.

7. THE SLOPE ON THE FLARED SIDES SHALL BE 7.5% MAXIMUM, 6% MINIMUM MEASURED PERPENDICULAR TO THE RAMP.

8. WHERE CURB RAMP WIDTH MUST BE <48" DUE TO A DOCUMENTED TECHNICALLY INFEASIBLE (E) CONDITION, THE WIDTH OF THE RAMP MAY BE REDUCED, BUT SHALL NOT BE <36". SUCH LOCATIONS SHALL BE DOCUMENTED AS POSING A TECHNICALLY INFEASIBLE (E) CONDITION AND MUST BE APPROVED ON A CASE BY CASE BASIS BY PUBLIC WORKS.

9. WHERE PINCH POINT WIDTH MUST BE <48" DUE TO A DOCUMENTED TECHNICALLY INFEASIBLE (E) CONDITION, THE WIDTH OF THE PINCH POINT MAY BE REDUCED, BUT SHALL NOT BE <36". SUCH LOCATIONS SHALL BE DOCUMENTED AS POSING A TECHNICALLY INFEASIBLE (E) CONDITION AND MUST BE APPROVED ON A CASE BY CASE BASIS BY PUBLIC WORKS.

APPROVED: ____________________
PUBLIC WORKS DISABILITY ACCESS COORDINATOR DATE:
EFFECTIVE DATE: ____________________

PRELIMINARY DRAWING
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TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 10/07/15 15:24, BY: efontejo

REFERENCE INFORMATION & FILE NO. OF SURVEYS

SEAL OF THE CITY AND COUNTY OF SAN FRANCISCO

SAN FRANCISCO PUBLIC WORKS

DESIGN & ENGINEERING
PUBLIC WORKS
CITY & COUNTY OF SAN FRANCISCO
30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102 - 5028

Section Mgr: | Deputy Division Mgr: | Division Mgr: PATRICK RIVERA | Date:

DESIGNED: PUBLIC WORKS DATE: 10/15
DRAWN: PUBLIC WORKS DATE: 10/15
CHECKED: PUBLIC WORKS DATE: 10/15

SCALE: NOT TO SCALE
SHEET OF SHEETS: 7 OF 13

ACCESSIBLE STREET CROSSING STANDARDS
EXCEPTION CURB RAMPS
SINGLE CURB RAMP PLANS

CONTRACT NO. NONE
DRAWING NO. CR-6
FILE NO. 102,860
REV. NO.

Drawing Path: \\dpw.sf.ci.sf.ca.us\bos\BOEFILES1\Data\SH\Curb_Ramp_Group\CR presentation\Rev Standard Plans\cfu Scale: #Details Model Units: Feet
Plot Time: Wed, 07 Oct 2015 - 3:24pm
Xrefs: S:\SH\Curb_Ramp_Group\CR presentation\DET_TBD.dwg

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650-482-6399 (FAX)

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS
SAN FRANCISCO | SAN FRANCISCO COUNTY | CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA, CIVIL

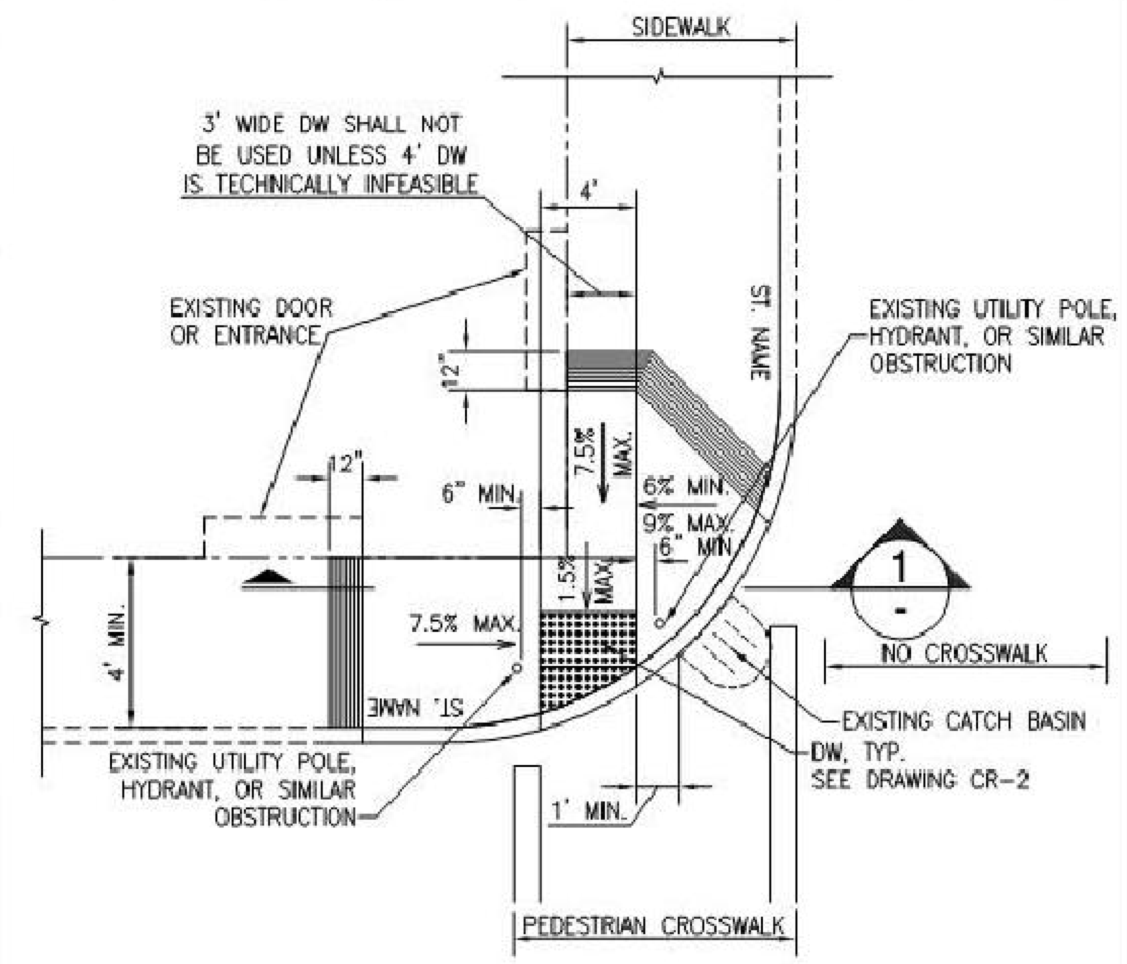
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

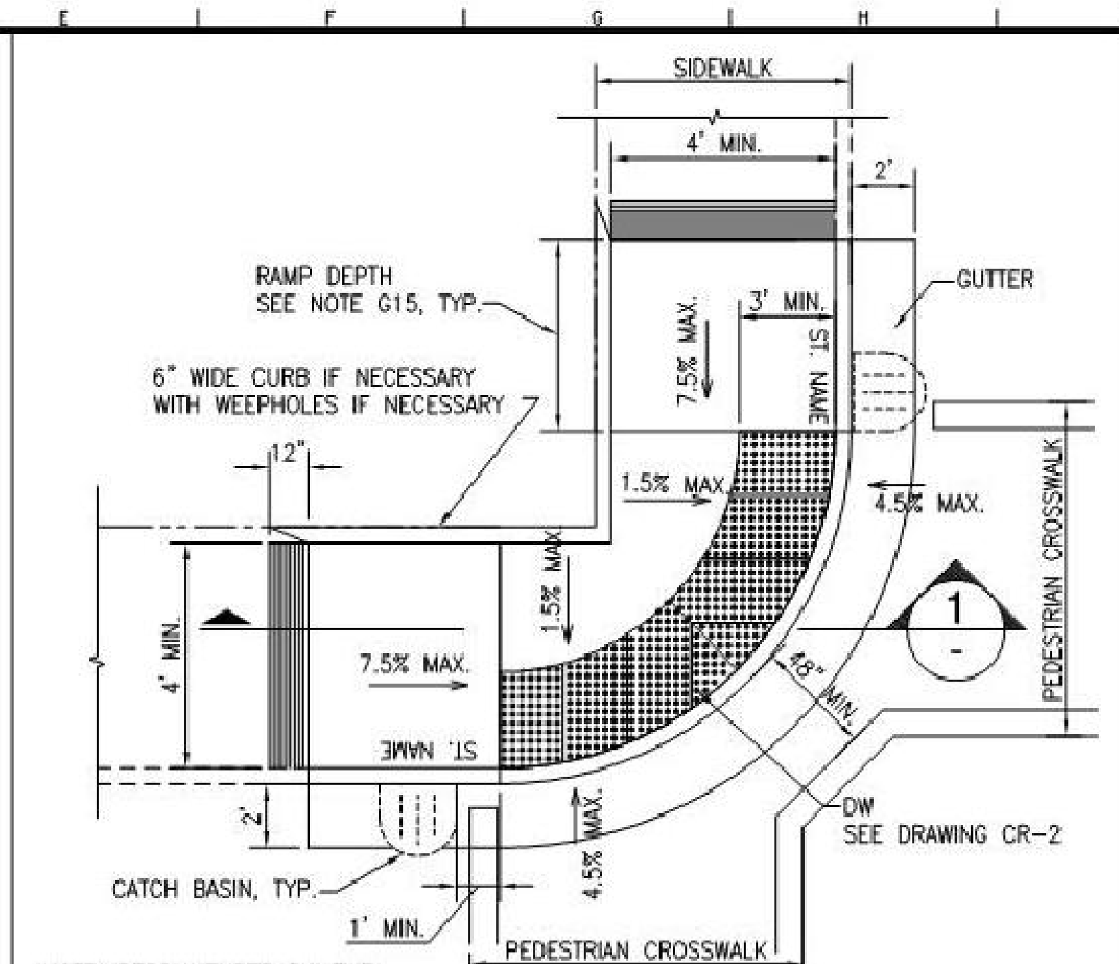
Drawing Number:
C7.41

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.41)
PLOT TIME: 4-28-2017 4:22 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

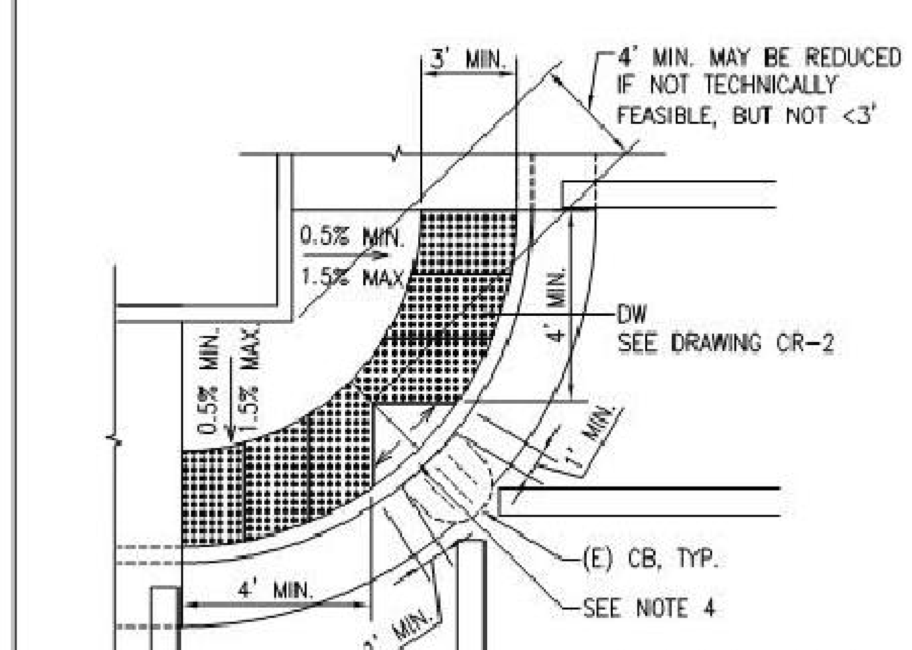


T-INTERSECTION RAMP (A1)
4-FOOT WIDE RAMP



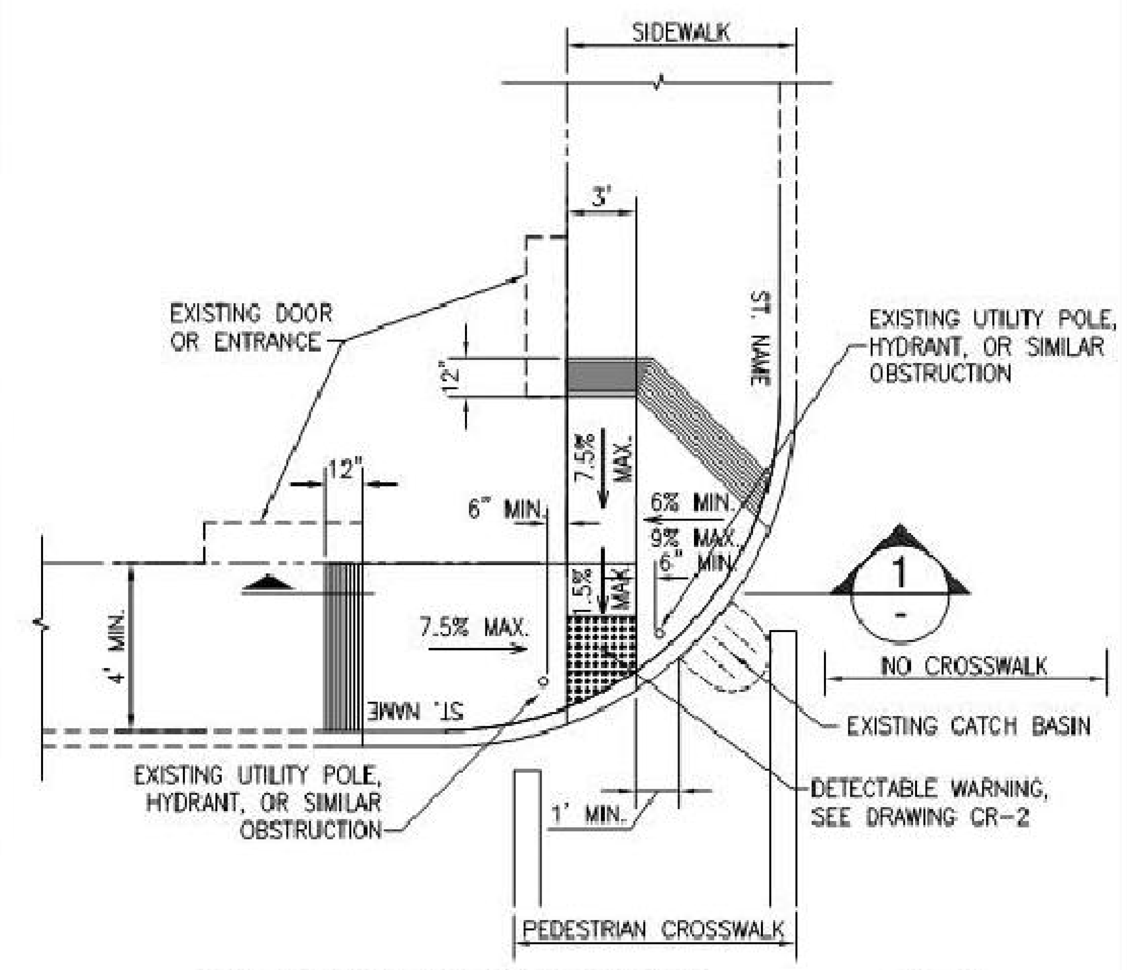
NOTE: RECOMMENDED DW TILE LAYOUT SHOWN. ACTUAL LAYOUT MAY VARY DUE TO CURB RETURN ANGLE AND RADIUS.

BLENDED TRANSITION CURB RAMP (B)
CATCH BASIN OUTSIDE OF CURB RETURN

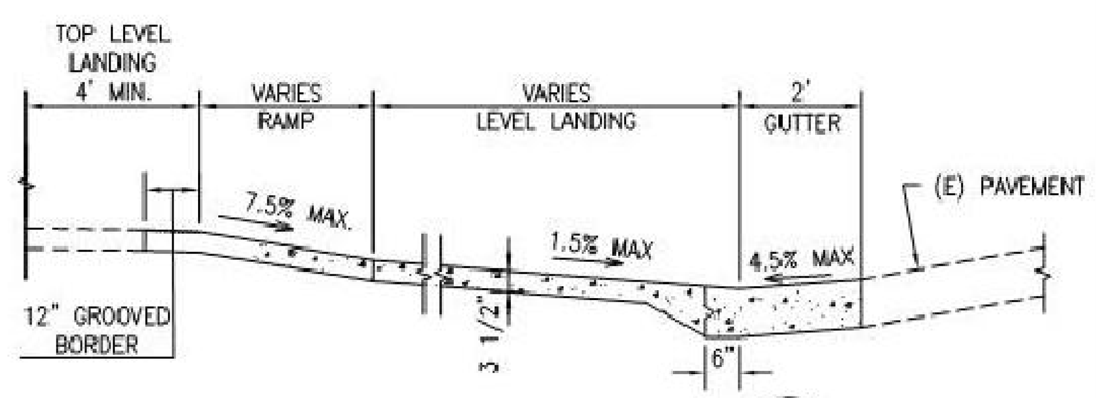


NOTE: PARTIAL PLAN SHOWN. SEE BLENDED TRANSITION CURB RAMP "B" FOR MORE DETAILS.

BLENDED TRANSITION CURB RAMP (C)
CATCH BASIN AT CURB RETURN



T-INTERSECTION RAMP (A2)
3-FOOT WIDE RAMP



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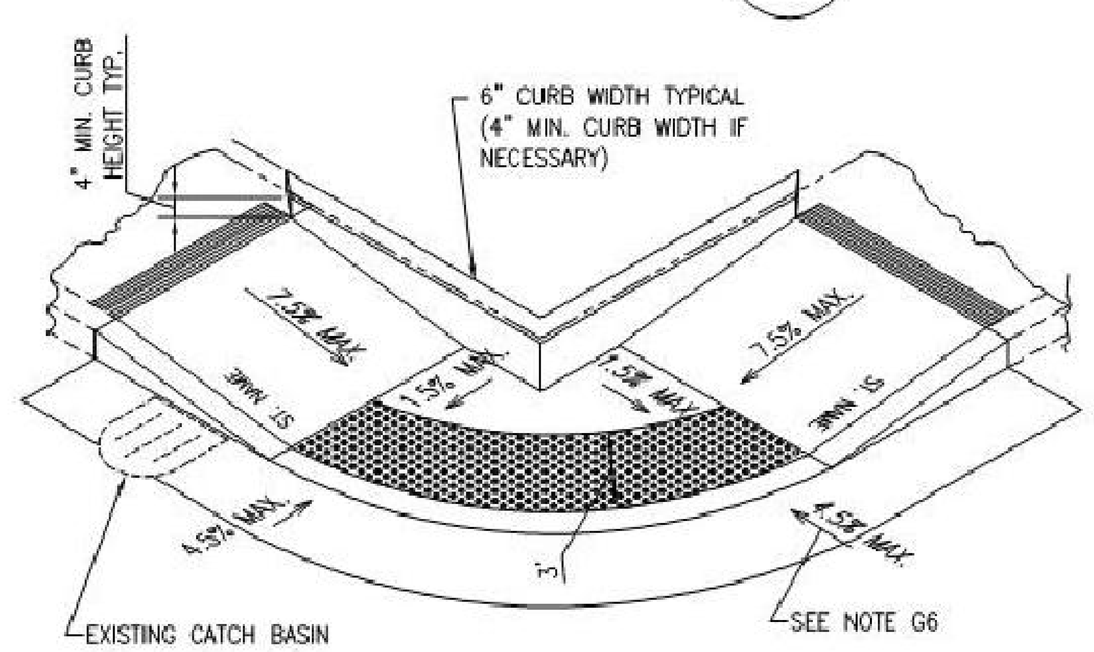

NOTE: DW TILE LAYOUT NOT SHOWN.

ISOMETRIC

SHEET NOTES

1. THE EXCEPTION CURB RAMPS SHOWN ON THIS DRAWING SHALL BE USED ONLY WITH PRIOR APPROVAL FROM THE CITY ENGINEER, PUBLIC WORKS DISABILITY ACCESS COORDINATOR, OR THEIR DESIGNEE AND UPON PROPER DOCUMENTATION OF HARDSHIP INDICATING LEGAL AND OR PHYSICAL CONSTRAINTS.

2. ALL GENERAL NOTES ON DRAWING CR-0 SHALL APPLY TO THIS SHEET. FOR DETECTABLE WARNING DETAILS AND NOTES, SEE DRAWING CR-2.

3. BLENDED TRANSITION CURB RAMP "B" SHALL BE USED WHEN THE SIDEWALK IS NOT WIDE ENOUGH, MAKING IT TECHNICALLY INFEASIBLE TO PROVIDE A STANDARD CURB RAMP LAYOUT OR ALTERNATE CURB RAMP.

4. A CATCH BASIN AT THE CENTER OF A BLENDED TRANSITION CURB RAMP SHALL BE AVOIDED AS MUCH AS TECHNICALLY FEASIBLE. OTHER OPTIONS SHALL BE CONSIDERED FIRST, SUCH AS RELOCATING THE CATCH BASIN OUTSIDE OF THE CURB RETURN OR USE OF ALTERNATE CURB RAMPS. WHEN ALL OTHER OPTIONS ARE NOT TECHNICALLY FEASIBLE, THE CATCH BASIN WITHIN THE BLENDED TRANSITION MAY REMAIN. THE CURB AT THE CATCH BASIN SHALL REACH A HEIGHT OF 4 INCHES MINIMUM, 7 INCHES MAXIMUM.

5. A 6" CURB (4" MINIMUM) CAN BE CONSTRUCTED AT THE BACK OF SIDEWALK ONLY WHEN NECESSARY.

APPROVED: ______________________
PUBLIC WORKS DISABILITY ACCESS COORDINATOR DATE:
EFFECTIVE DATE: ______________________

PRELIMINARY DRAWING
FOR REVIEW ONLY

NO.	DATE	DESCRIPTION	BY	APP.

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 10/08/15 10:24, BY: efontejo

REFERENCE INFORMATION & FILE NO. OF SURVEYS

SEAL OF THE CITY AND COUNTY OF SAN FRANCISCO

SAN FRANCISCO PUBLIC WORKS

DESIGN & ENGINEERING
PUBLIC WORKS
CITY & COUNTY OF SAN FRANCISCO
30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102 - 6028

Section Mgr.:
Deputy Division Mgr.:
Division Mgr.: PATRICK RIVERA
Date:

DESIGNED: PUBLIC WORKS	DATE: 10/15
DRAWN: PUBLIC WORKS	DATE: 10/15
CHECKED: PUBLIC WORKS	DATE: 10/15

SCALE: NOT TO SCALE
SHEET OF SHEETS: 8 OF 13

ACCESSIBLE STREET CROSSING STANDARDS

EXCEPTION CURB RAMPS
BLENDED TRANSITION CURB RAMPS

CONTRACT NO. NONE
DRAWING NO. CR-7
FILE NO. 102,861
REV. NO.

Drawing Path: \\dpw.ci.sf.ca.us\bos\BOOFILES1\Data\SH\Curb_Ramp_Group\CR presentation\Rev Standard Plans\cfu-DateDrafting Scale: #fontejo
Plot Time: Thu, 08 Oct 2015 - 10:25am Measurement Units are English Model Units: Feet
Xrefs: S:\SH\Curb_Ramp_Group\CR presentation\DET_TBD.dwg

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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — CIVIL — STATE OF CALIFORNIA

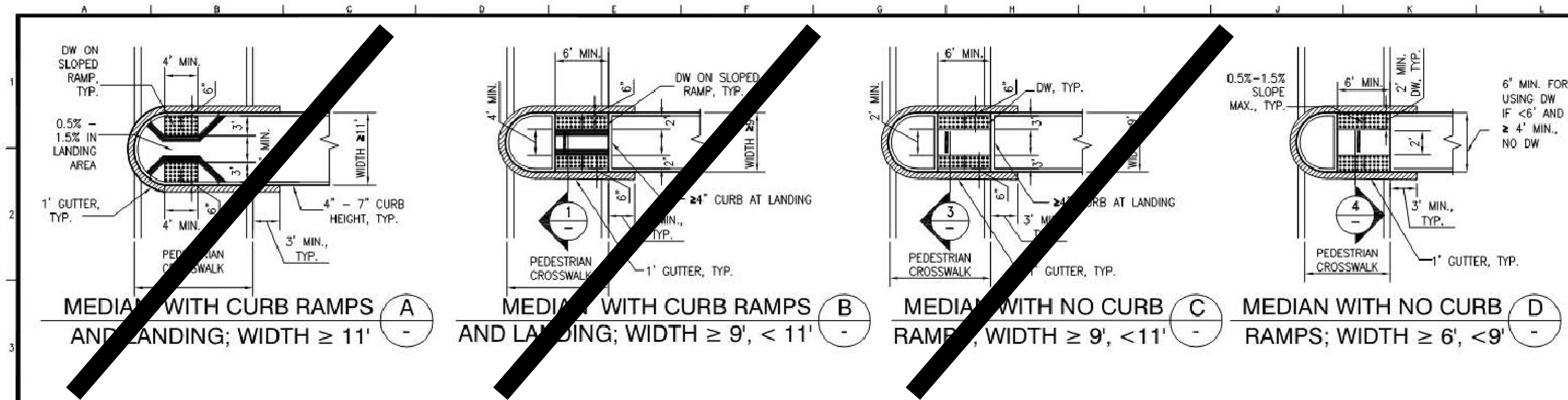
No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.42

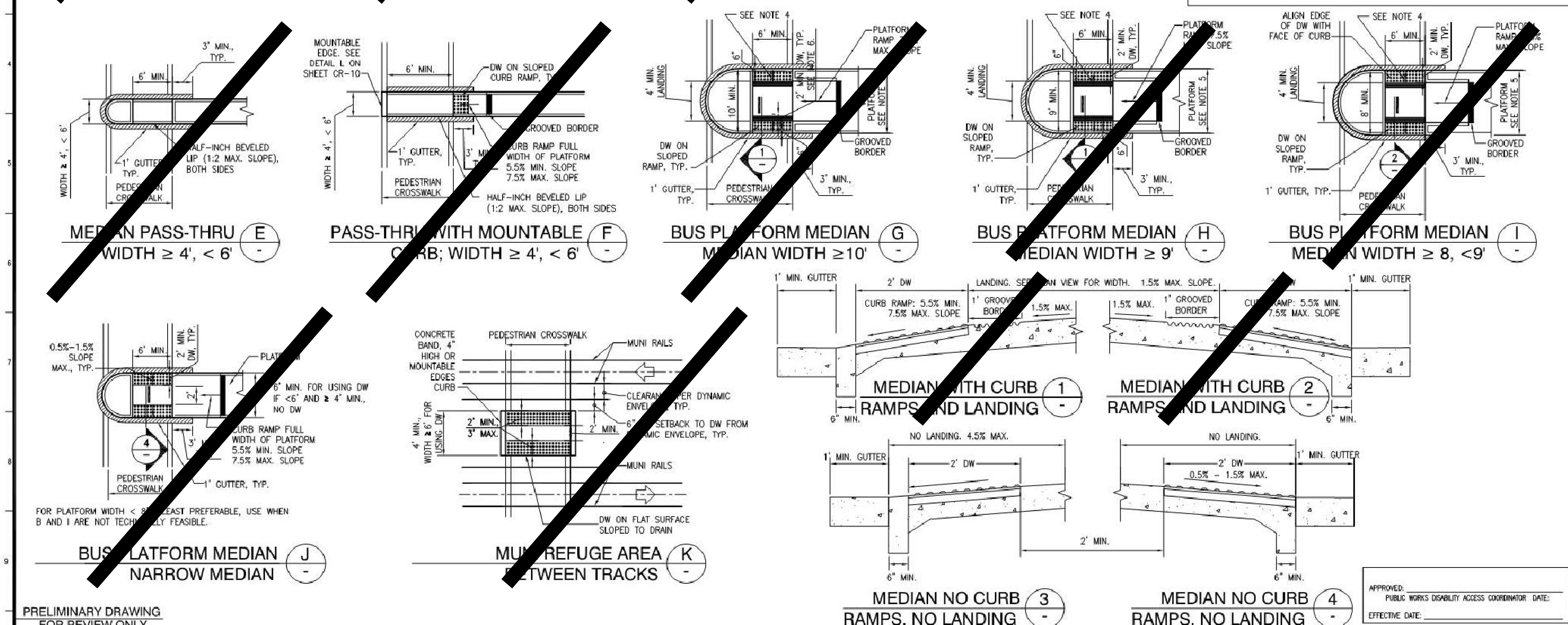
DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.42)
PLOT TIME: 4-28-2017 4:22 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17



SHEET NOTES

1. ALL GENERAL NOTES ON DRAWING CR-0 SHALL APPLY TO THIS SHEET. FOR DETECTABLE WARNING (DW) DETAILS AND NOTES, SEE DRAWING CR-2.
2. WHEN PATHWAY IS MADE OF ASPHALT CONCRETE, THE DW SHALL BE SET ON CONCRETE 4" THICK MINIMUM AND 6" WIDE AROUND ALL EDGES OF THE TILES. FOR AREAS WHERE MAINTENANCE OR EMERGENCY VEHICLE TRAFFIC WILL TRAVEL ON DW, CONCRETE SHALL BE 6" THICK.
3. WHEN THE PEDESTRIAN PASS THRU IS BOUNDED BY CURB ON BOTH SIDES, THE CURBS SHALL BE PARALLEL TO THE CROSSWALK ON EITHER END OF THE PASS THRU.
4. SLOPE PASS-THRU FOR DRAINAGE TO LIMIT DEBRIS BUILD-UP.
5. WIDTH OF BOARDING PLATFORM SHOULD BE AT LEAST 8' FOR ACCESSIBILITY.
6. ANY EXCESS WIDTH AFTER 4' LANDING, 6" CURB, AND MIN. 2' OF DW REQUIREMENT HAS BEEN MET SHALL BE DISTRIBUTED EQUALLY AS ADDITIONAL WIDTH TO THE DW.
7. PASS-THROUGHS AND REFUGE AREAS ARE REQUIRED TO HAVE A 6' MINIMUM WIDTH. WIDTH MAY BE REDUCED TO 5' MINIMUM (5'2" MINIMUM FOR CALTRANS) WHERE IT IS TECHNICALLY INFEASIBLE TO ACHIEVE A WIDER WIDTH.



APPROVED: ______ PUBLIC WORKS DISABILITY ACCESS COORDINATOR DATE:
EFFECTIVE DATE: ______

PRELIMINARY DRAWING
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NO.	DATE	DESCRIPTION	BY	APP.

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 10/08/15 09:19, BY: efontejo

REFERENCE INFORMATION & FILE NO. OF SURVEYS

SAN FRANCISCO PUBLIC WORKS
DESIGN & ENGINEERING
PUBLIC WORKS
CITY & COUNTY OF SAN FRANCISCO
30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102 - 6028

Section Mgr:
Deputy Division Mgr:
Division Mgr: PATRICK RIVERA
Date:

DESIGNED: PUBLIC WORKS	DATE: 10/15	
DRAWN: PUBLIC WORKS	DATE: 10/15	
CHECKED: PUBLIC WORKS	DATE: 10/15	

SCALE: NOT TO SCALE
SHEET OF SHEETS 10 OF 13

ACCESSIBLE STREET CROSSING STANDARDS
STANDARD CURB RAMPS
ACCESSIBLE MEDIAN DETAILS

CONTRACT NO. NONE
DRAWING NO. CR-9
FILE NO. 102,863
REV. NO.

Drawing Path: \\dpw.ci.sf.ca.us\boe\BOEFILES1\Data\SH\Curb_Ramp_Group\CR presentation\Rev Standard Plans\cty-Standardized Scale: efontejo
Plot Time: Thu, 08 Oct 2015 - 9:19am
Xrefs: S:\SH\Curb_Ramp_Group\CR presentation\DE1_TBD.dwg
Measurement Units are English Model Units: Feet

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CONSTRUCTION DETAILS
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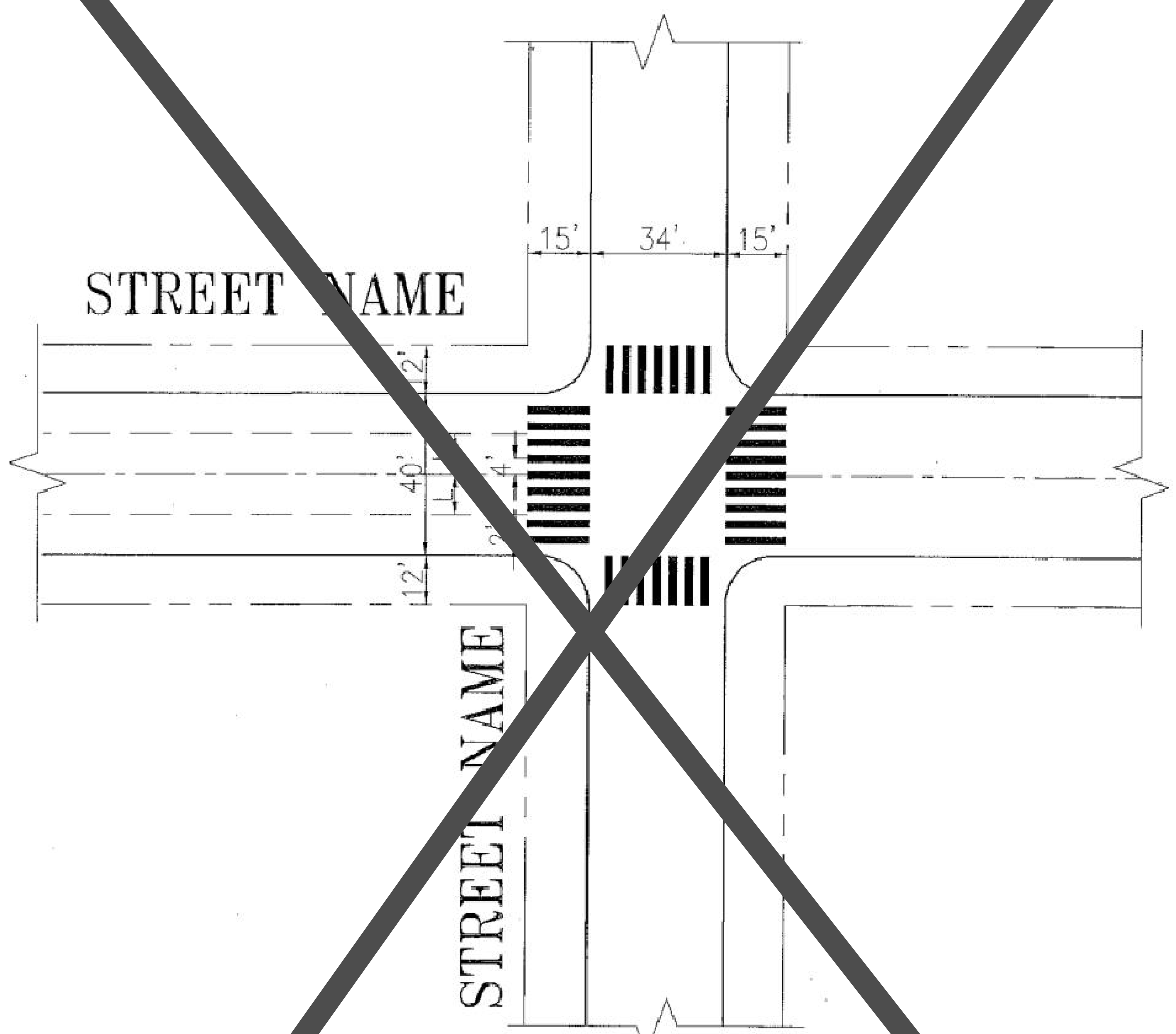
SAN FRANCISCO CALIFORNIA

No.	Revisions

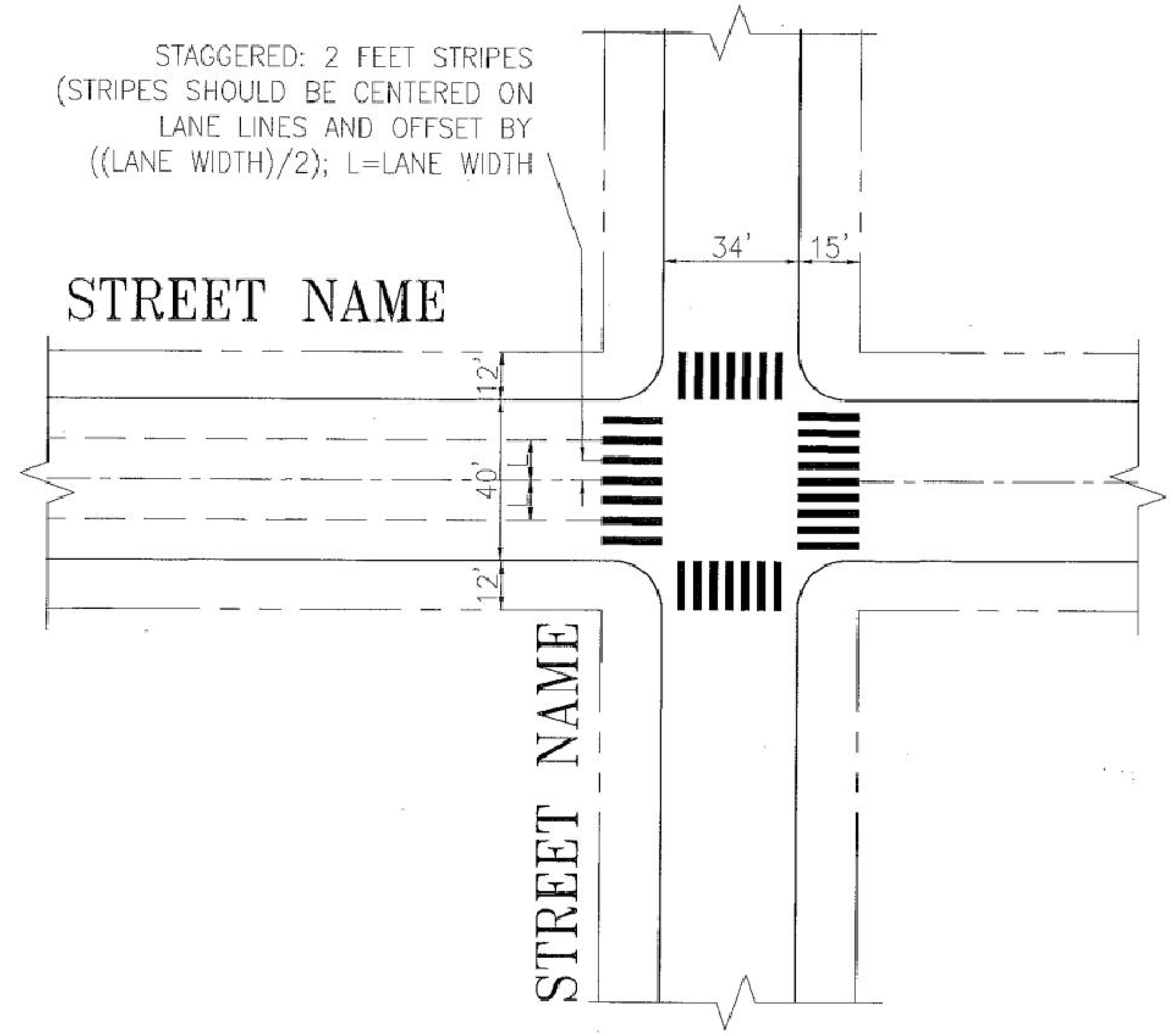
Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086
Drawing Number:
C7.43

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.43)
PLOT TIME: 4-28-2017 4:22 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17



CONTINENTAL CROSSWALK – TYPICAL



CONTINENTAL CROSSWALK – STAGGERED

NO.	DATE	DESCRIPTION	BY	APP
A	XXXX	XXXX	XX	XX

TABLE OF REVISIONS
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION

REFERENCE INFORMATION & FILE NO. OF SURVEYS

SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY
DIVISION OF PARKING AND TRAFFIC - TRAFFIC ENGINEERING
CITY AND COUNTY OF SAN FRANCISCO

DESIGNED: – DATE: XX
DRAWN: T.A DATE: XX
CHECKED: M.V DATE: XX

APPROVED
3/8/10
SECTION ENGINEER DATE
3/11/10
CITY TRAFFIC ENGINEER DATE

SCALE: 1"=20'
SHEET OF SHEETS

TRAFFIC STRIPING
DETAIL
CONTINENTAL CROSSWALK

CONTRACT NO.
DRAWING NO. STR-7821
FILE NO.
REV. NO. 0

EXTERNAL REFERENCES:
FONTS USED:
SCALE FACTOR:
PLOT SCALE:
ORIGIN: OPERATIONS
FILE NAME:
DATE:

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CONSTRUCTION DETAILS
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.44

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details.dwg (C7.44)
PLOT TIME: 4-28-2017 4:22 PM PLOTTED BY: bum

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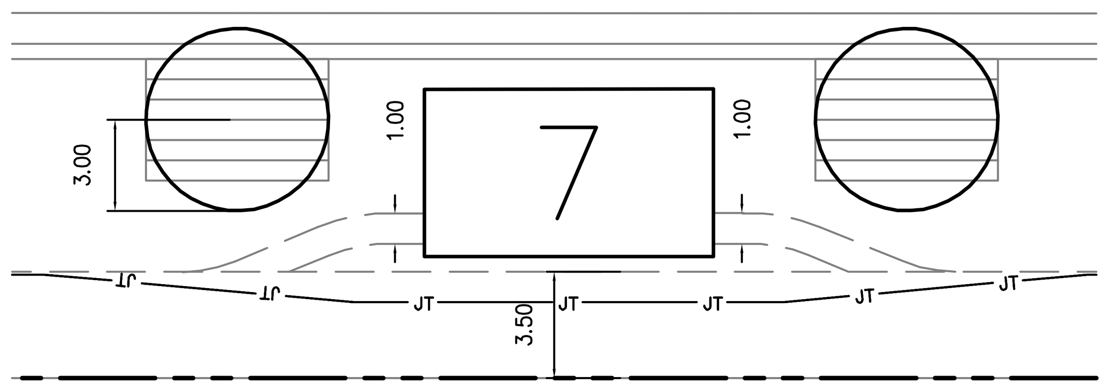

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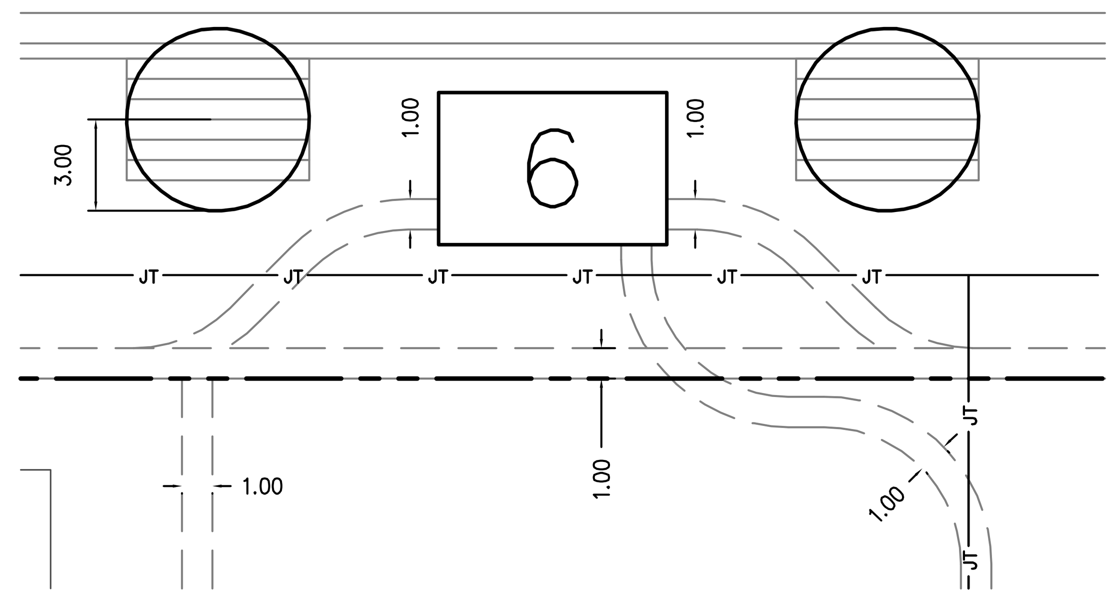

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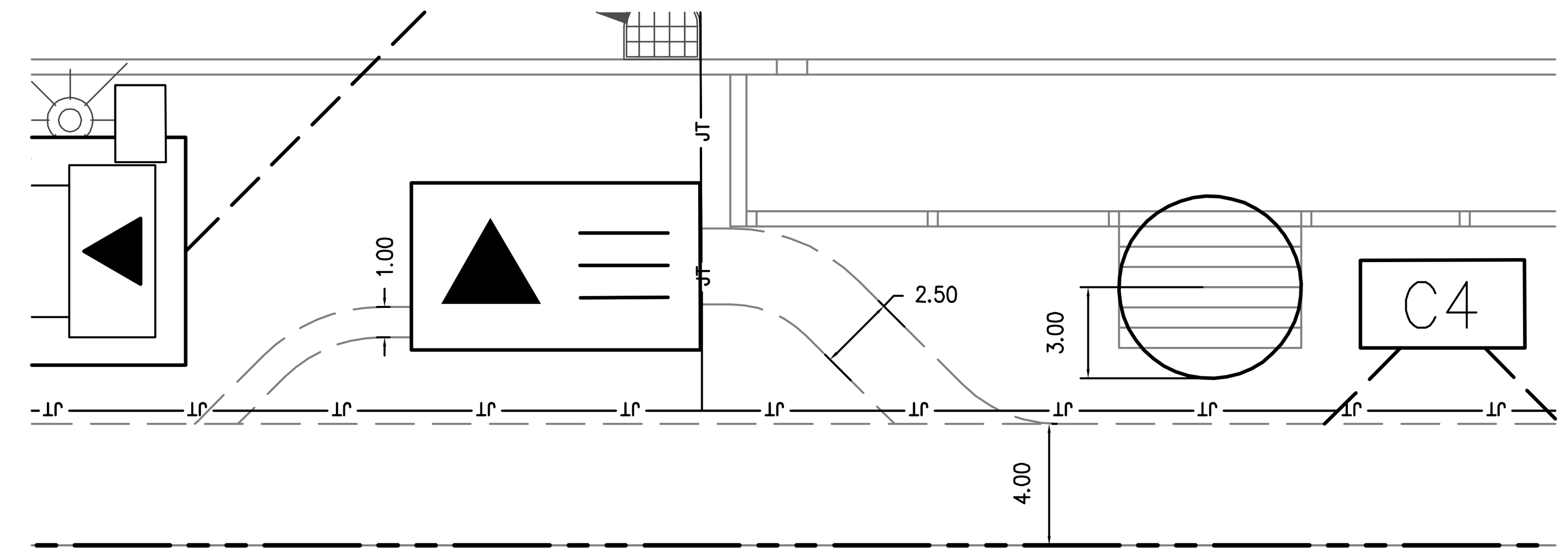

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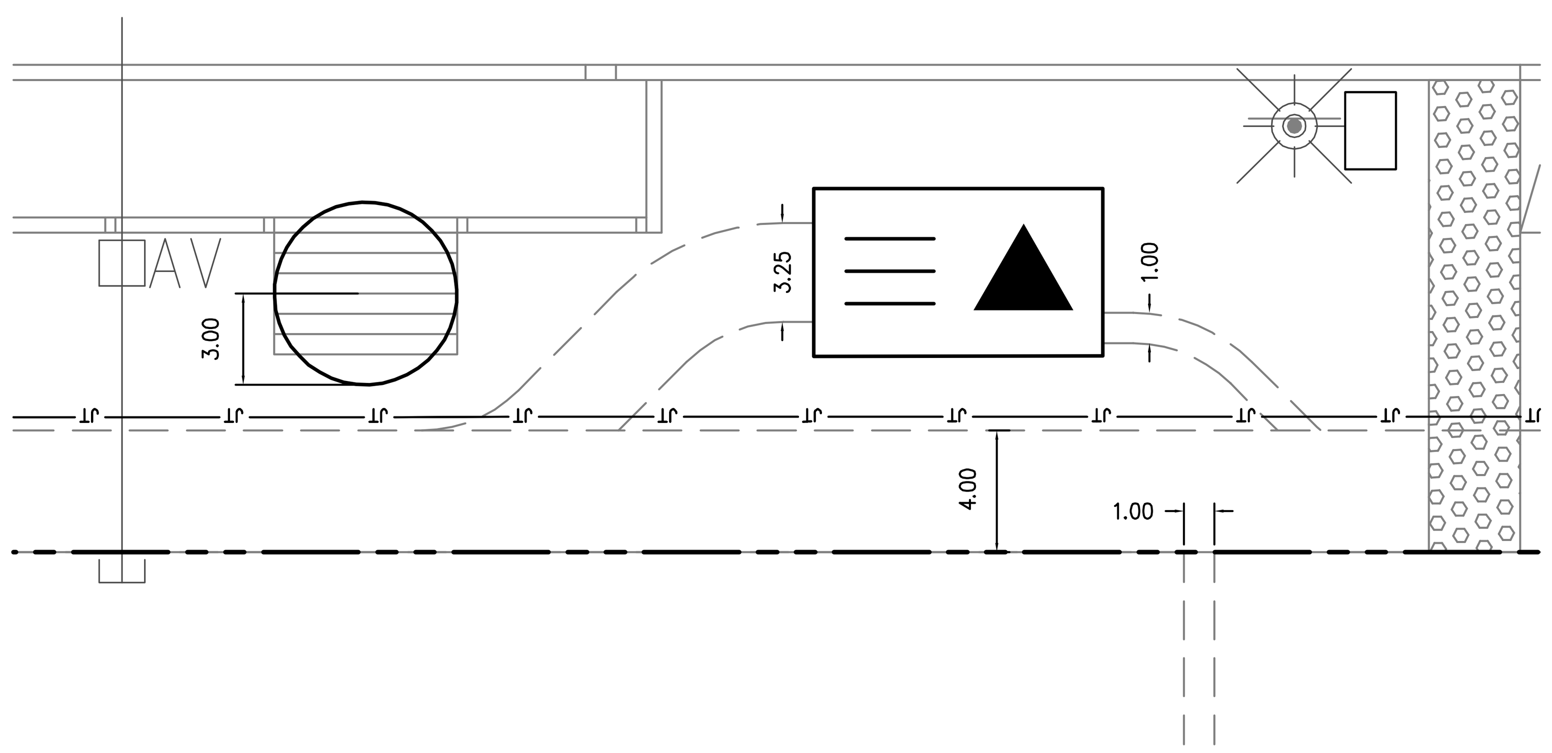

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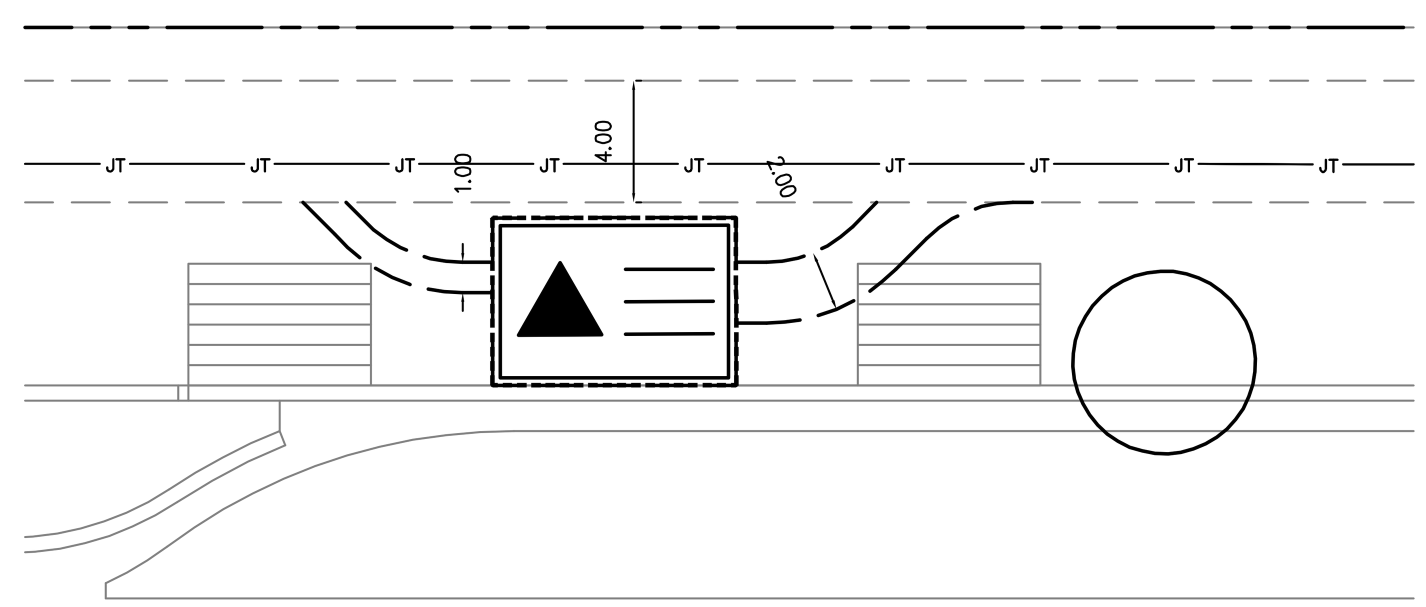

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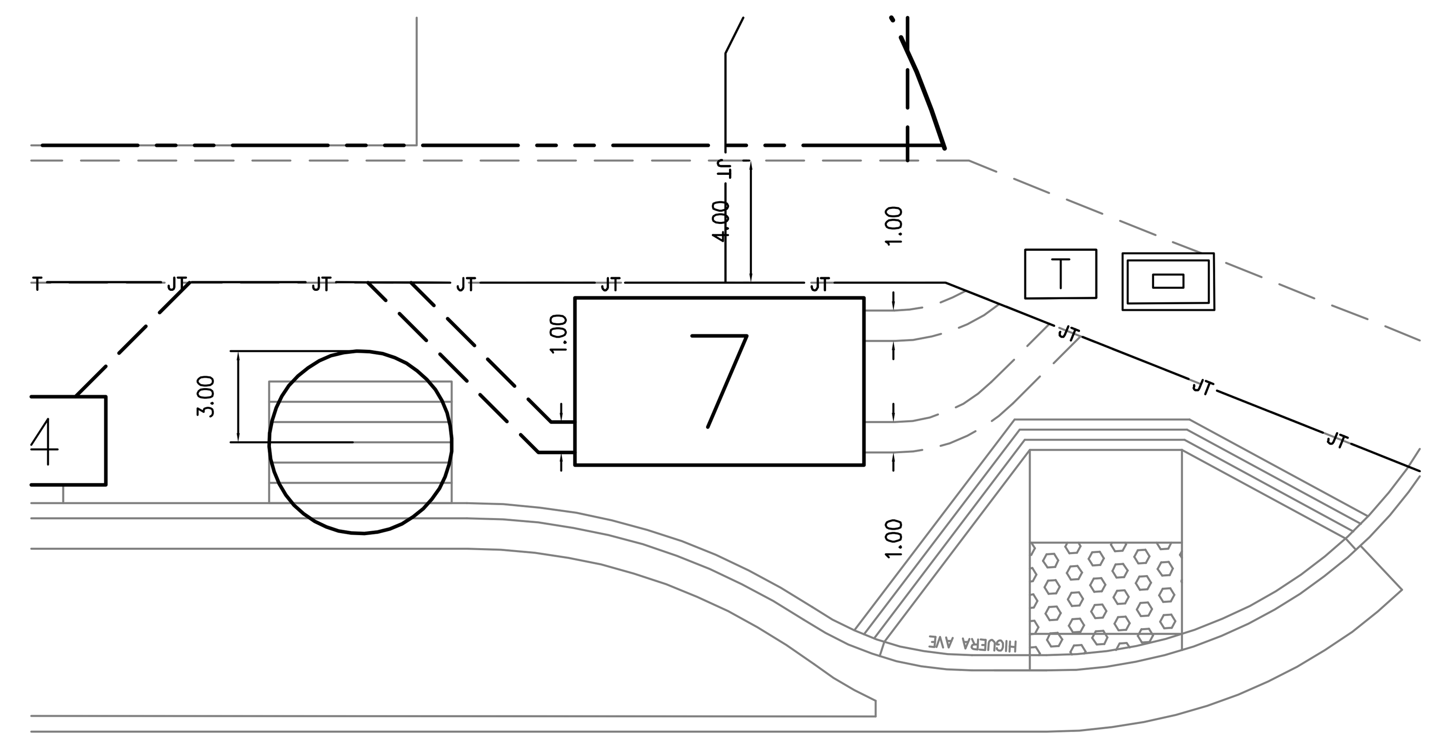

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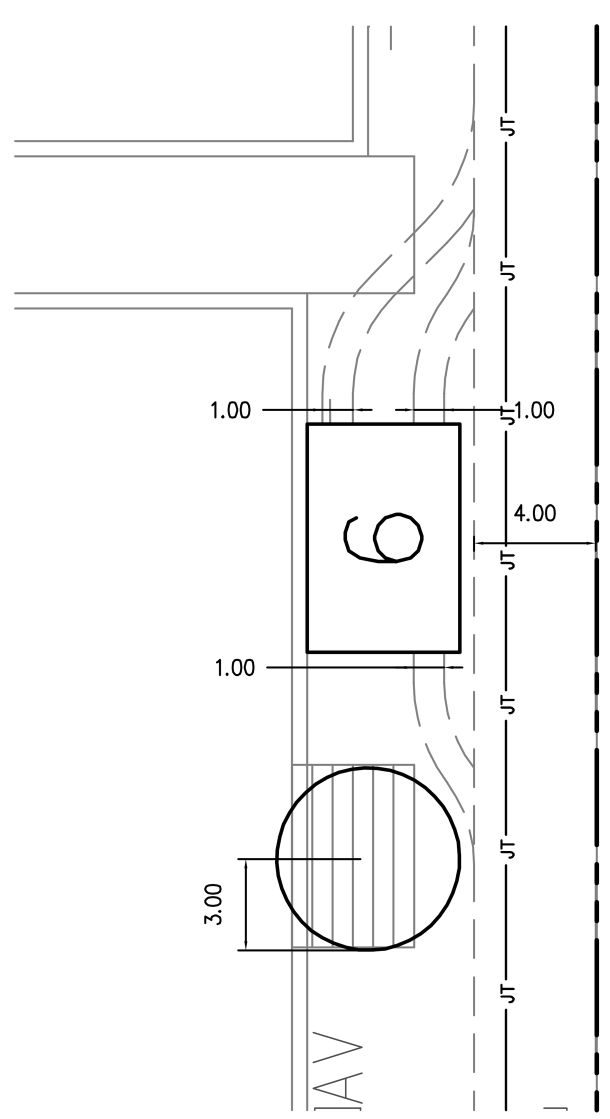

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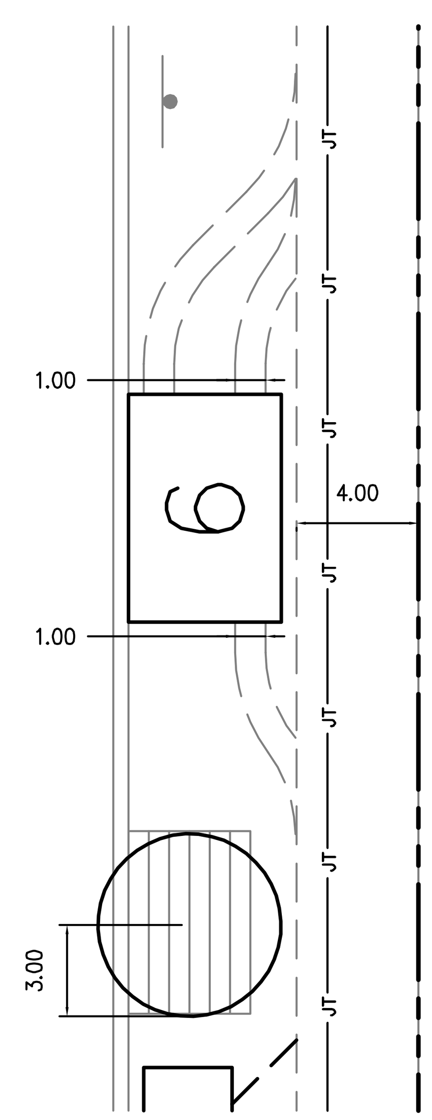

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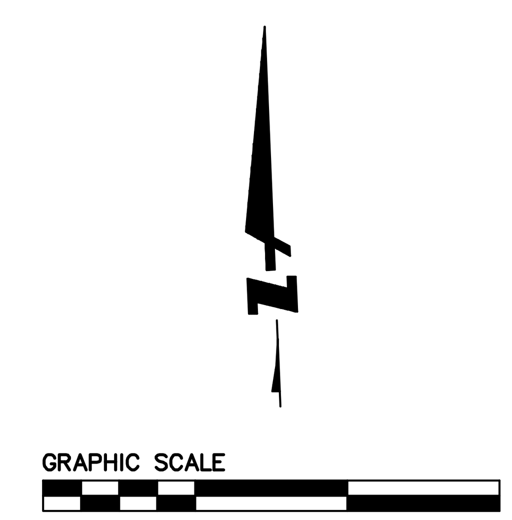

GRAPHIC SCALE
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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION DETAILS

SAN FRANCISCO   SAN FRANCISCO COUNTY   CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: NONE
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
C7.46

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-C700-Details-JT.dwg (C7.46)
PLOT TIME: 4-28-2017 3:04 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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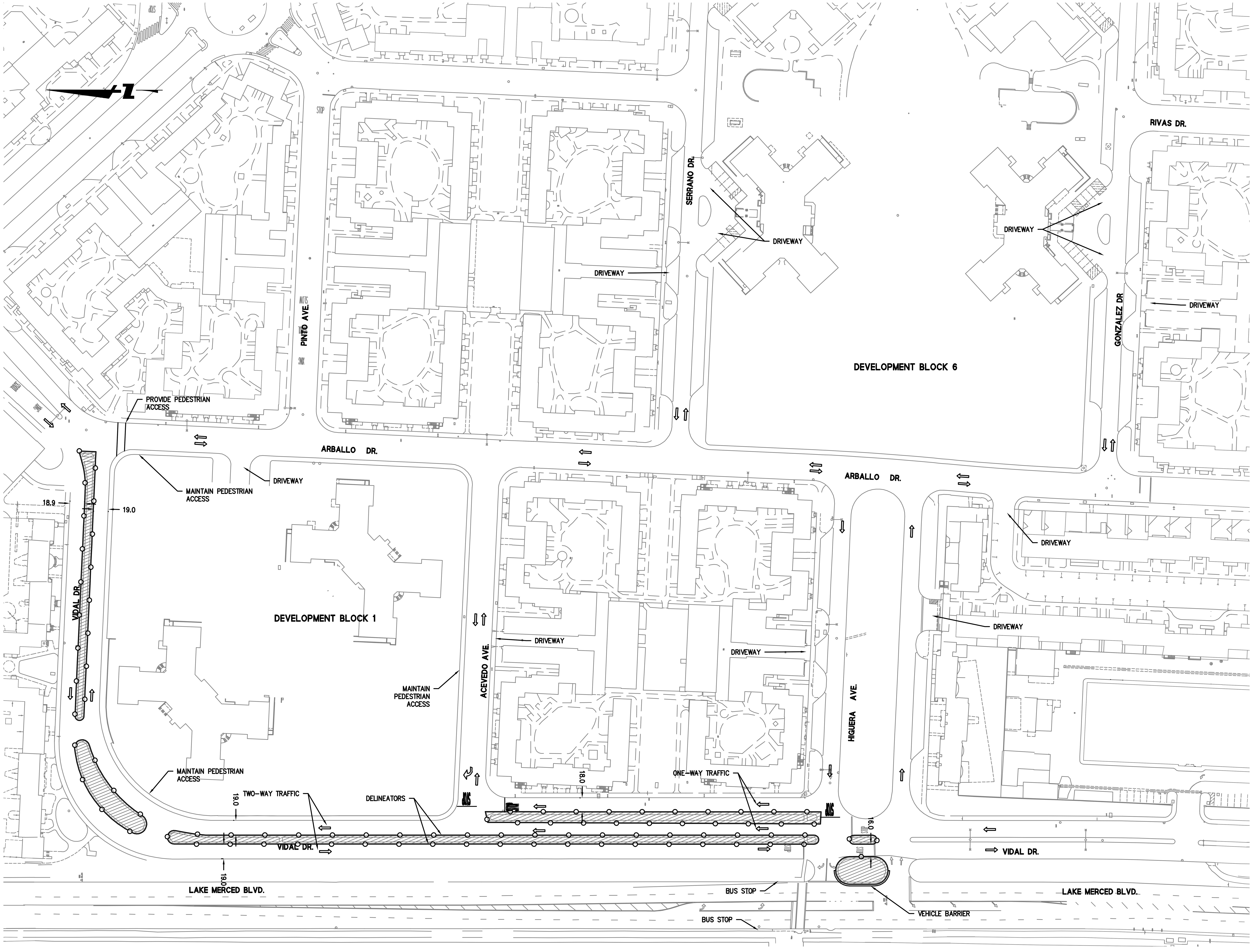

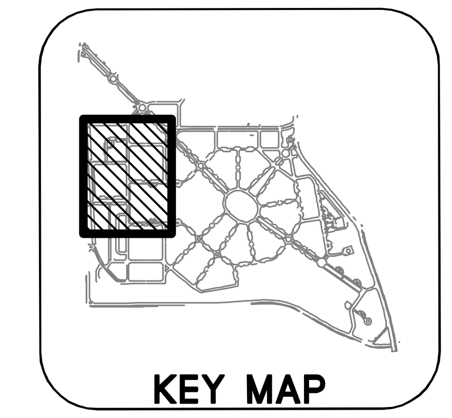

GRAPHIC SCALE

60 0 60 120

LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. REMOVE EXISTING CONCRETE MEDIAN AND CONSTRUCT TEMPORARY AC ROAD OVER (E) MEDIAN. (4" AC OVER NATIVE COMPACTED TO 95%)
2. MAINTAIN EXISTING SIGNAL CONFIGURATION AT HIGUERA AVE./LAKE MERCED BLVD.

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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION STAGING PLAN - STAGE 1

SAN FRANCISCO | SAN FRANCISCO COUNTY | CALIFORNIA

No.	Revisions

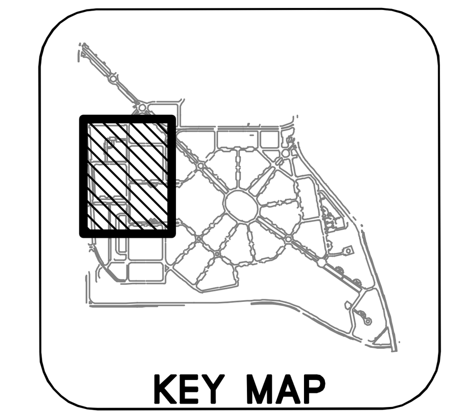
Date: 05/01/17
Scale: 1"=60'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

CS.01

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-CS00.dwg (CS.01)
PLOT TIME: 4-28-2017 4:47 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17



GRAPHIC SCALE

60 0 60 120

LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. RELOCATE IN-TRACT UTILITIES FOR BLOCK 1 LOT 2 EXCAVATION
2. RELOCATE IN-TRACT UTILITIES FOR BLOCK 1 LOT 3 GRADING.
3. RELOCATE IN-TRACT UTILITIES FOR BLOCK 6 BUILDING.
4. INSTALL TEMPORARY POWER TO BLOCK 1 LOT 2 AND LOT 3.
5. INSTALL TEMP POWER FOR BLOCK 6.
6. INSTALL ALL THE UTILITIES EXCEPT AS NOTED BELOW.
   - 6.1. SOME LATERALS WILL NEED TO BE INSTALLED IN SUBSEQUENT PHASES AFTER THE CURBS ARE INSTALLED.
   - 6.2. SOME SECTIONS OF MAINS WILL NEED TO BE INSTALLED IN SUB-PHASES AFTER GRADE IS ESTABLISHED, PORTIONS OF NETWORKS ARE COMPLETED AND ENERGIZED/ PRESSURIZED/ ETC.
7. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED IN SUBSEQUENT STAGES.
8. MAINTAIN EXISTING SIGNAL CONFIGURATION AT HIGUERA /LAKE MERCED BLVD.

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PHASE 1A STREET IMPROVEMENT PLANS

CONSTRUCTION STAGING PLAN - STAGE 2

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BRIAN K. SCOTT No. 61088 Exp. 12/31/18 CIVIL STATE OF CALIFORNIA

Date: 05/01/17	No.	Revisions
Scale: 1"=60'		
Design: TH		
Drawn: NL		
Approved: BS		
Job No: 20090086		

Drawing Number:

CS.02

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-CS00.dwg (CS.02)
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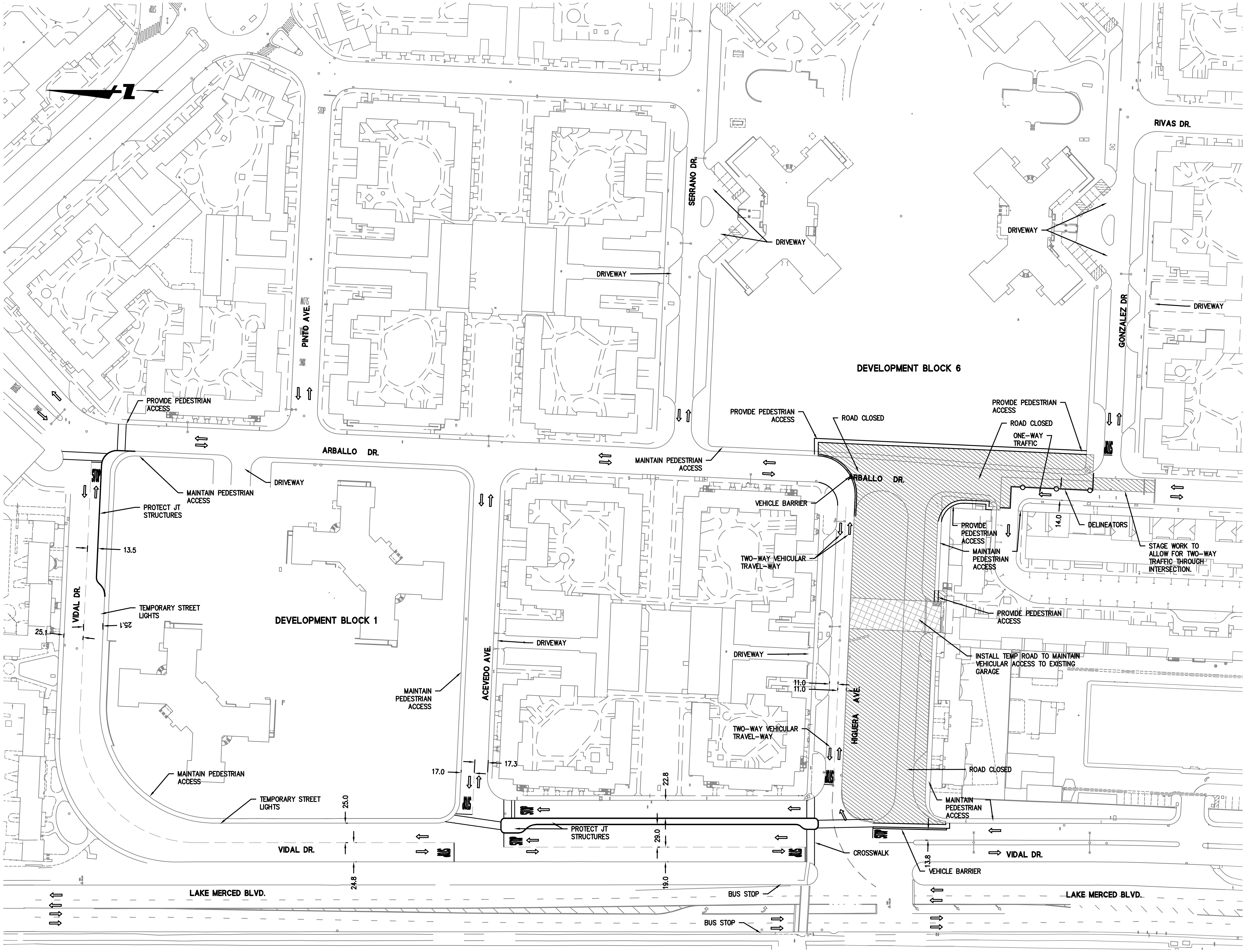
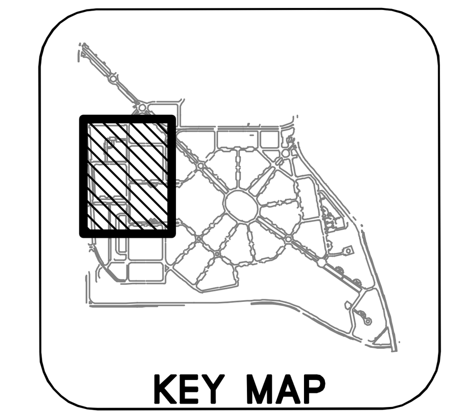
APPROVED SET FOR BOARD SUBMITTAL 05.01.17





GRAPHIC SCALE

60 0 60 120

LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. DEMO, GRADE & INSTALL HARDSCAPE ON SOUTH SIDE OF HIGUERA AVE. FROM VIDAL DR. TO ARBALLO DR.
2. INSTALL TEMP AC VEHICULAR ACCESS (4" AC OVER NATIVE COMPACTED TO 95%).
3. COMPLETE UTILITY WORK AT ARBALLO DR. AND HIGUERA AVE. AFTER GRADES ESTABLISHED (WATER, JT).
4. MAINTAIN EXISTING SIGNAL CONFIGURATION AT HIGUERA AVE./ LAKE MERCED BLVD.
5. IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.
6. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.

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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION STAGING PLAN - STAGE 3a

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BRIAN K. SCOTT No. 61059 Exp. 12/31/18 CIVIL STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

No.	Revisions

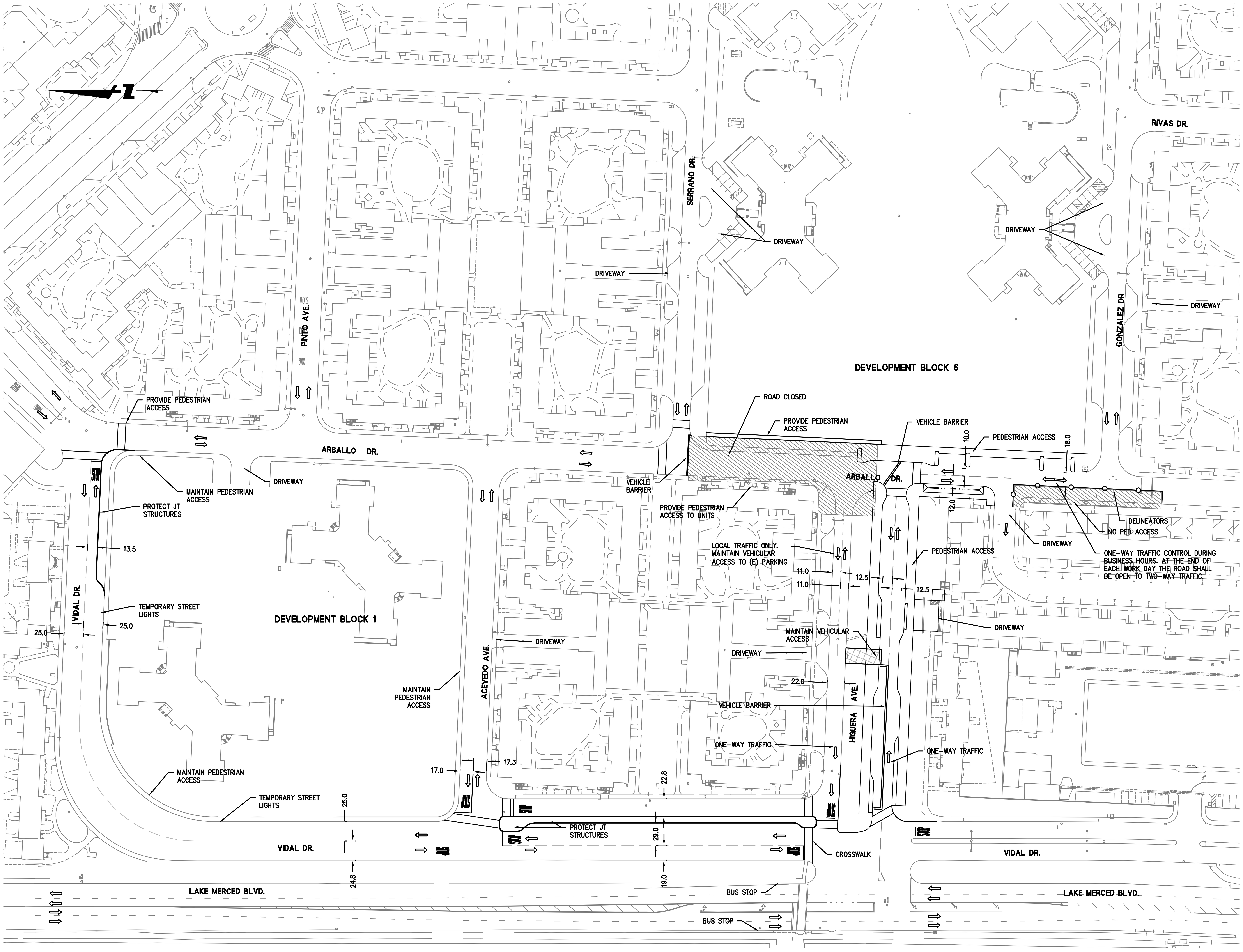
Date: 05/01/17
Scale: 1"=60'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

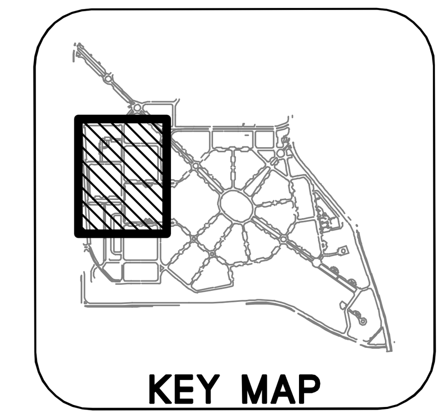
Drawing Number:

CS.03A

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-CS00.dwg (CS.03A)
PLOT TIME: 4-28-2017 4:47 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17





GRAPHIC SCALE

60 0 60 120

LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. CONSTRUCT ARBALLO RD. EAST OF BLOCK 6.
2. CONSTRUCT TEMPORARY ACCESS ONTO LAKE MERCED BLVD. FROM HIGUERA AVE. WEST.
3. MAINTAIN EXISTING SIGNAL CONFIGURATION AT HIGUERA AVE./ LAKE MERCED BLVD.
4. IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.
5. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.

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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION STAGING PLAN - STAGE 3b

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REGISTERED PROFESSIONAL ENGINEER BRIAN K. SCOTT No. 61039 Exp. 12/31/18 CIVIL STATE OF CALIFORNIA
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No.	Revisions

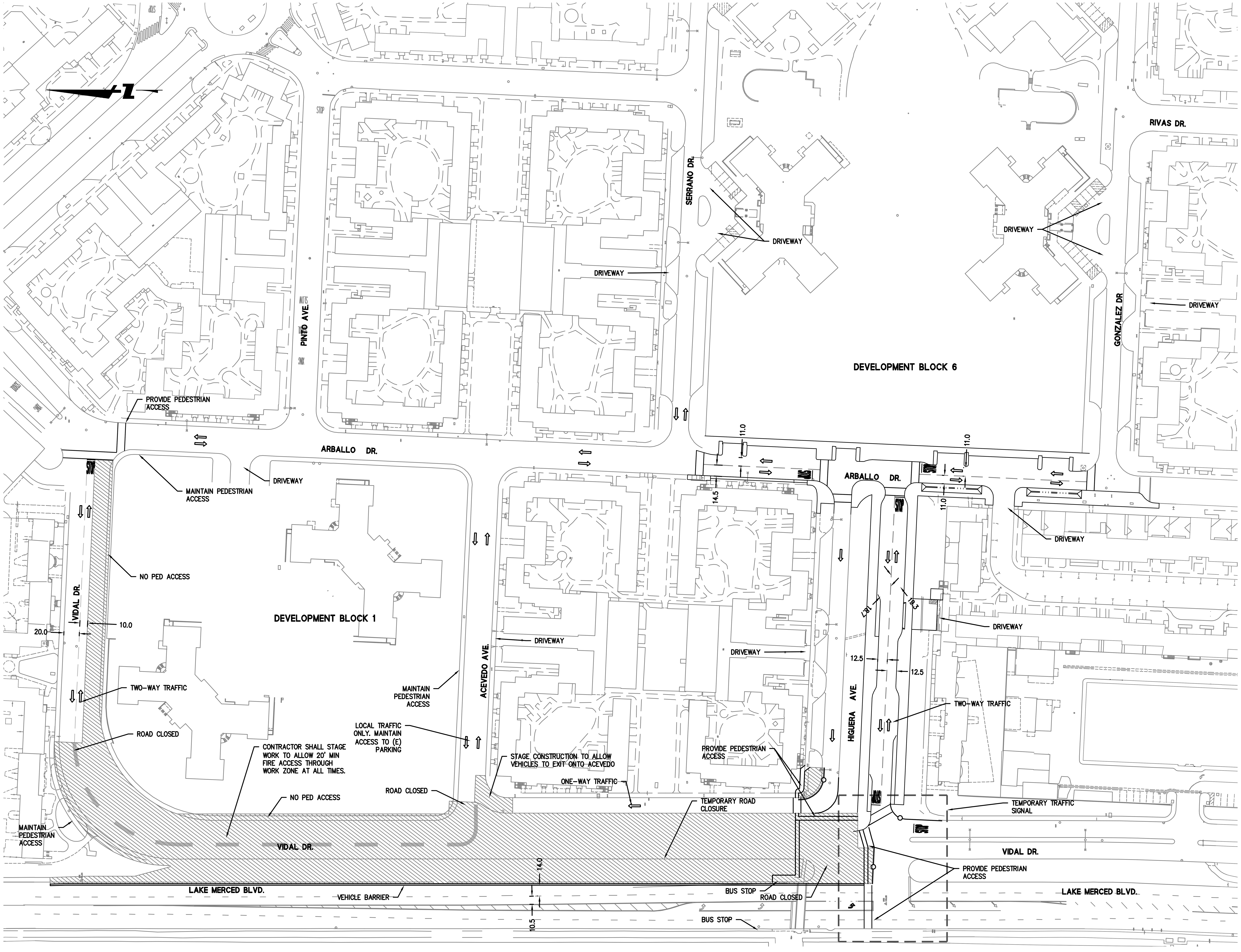
Date: 05/01/17
Scale: 1"=60'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

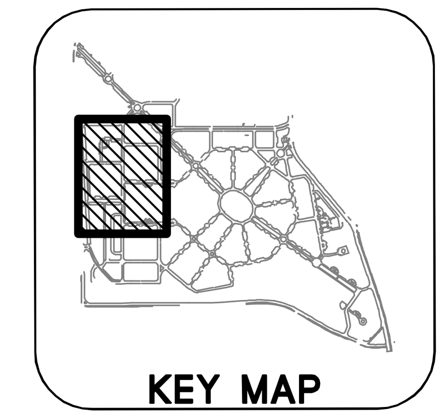
Drawing Number:

CS.03B

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-CS00.dwg (CS.03B)
PLOT TIME: 4-26-2017 4:47 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17





GRAPHIC SCALE

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LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. CONSTRUCT PARTIAL VIDAL DR. ALONG NORTHERN BORDER OF BLOCK 1. CONSTRUCTION COMPLETE VIDAL DR. ALONG WESTERN EDGE OF BLOCK 1 SOUTH TO HIGUERA AVE.
2. PARTIAL SHUTDOWN ACEVEDO AVE. AND VIDAL DR.
3. INSTALL TEMPORARY SIGNAL AT HIGUERA AVE./ LAKE MERCED BLVD.
4. NEW ACEVEDO AVE. INTERSECTION AT VIDAL DR. AND LAKE MERCED BLVD. TO REMAIN CLOSED UNTIL NEW HIGUERA AVE. INTERSECTION IS COMMISSIONED.
5. IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.
6. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.

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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION STAGING PLAN - STAGE 4a

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BRIAN SCOTT No. 61036 Exp. 12/31/18 CIVIL STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

No.	Revisions

Date: 05/01/17
Scale: 1"=60'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

CS.04A

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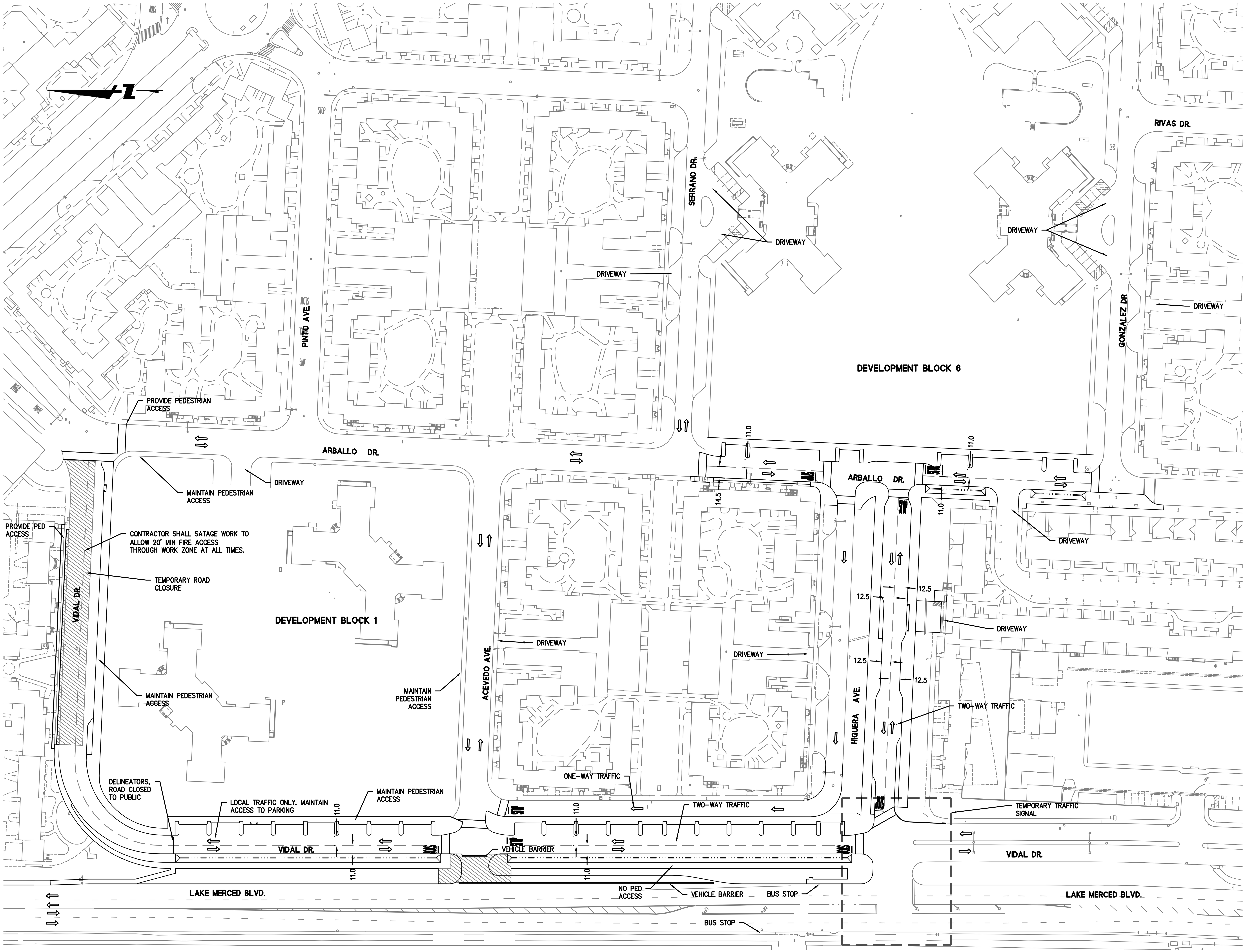

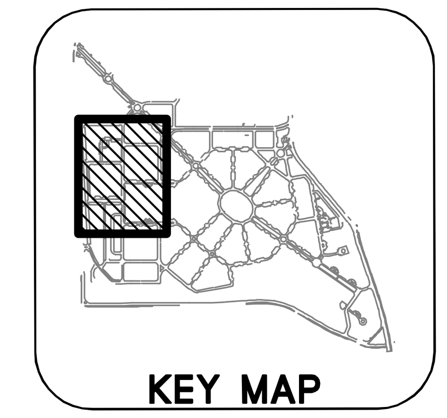

GRAPHIC SCALE

60 0 60 120

LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. CONSTRUCT REMAINDER OF VIDAL DR. ALONG NORTHERN BORDER OF BLOCK 1.
2. IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.
3. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.

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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION STAGING PLAN - STAGE 4b
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=60'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
CS.04B

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-CS00.dwg (CS.04B)
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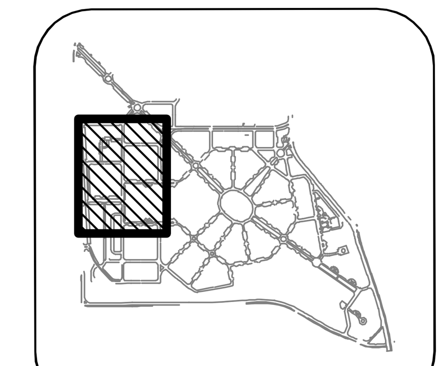

KEY MAP

GRAPHIC SCALE

60 0 60 120

LEGEND:

AREA OF WORK

DIRECTIONAL ARROW

TEMPORARY STRIPING

DELINEATORS

SHEET NOTES:

1. CONSTRUCT REMAINDER OF MEDIAN NOSES, ROD BASE AND AC AT THE INTERSECTION OF HIGUERA AVE./LAKE MERCED BLVD. COMMISSION NEW SIGNAL.
2. SHUT DOWN HIGUERA AVE./ VIDAL /LAKE MERCED BLVD. INTERSECTION FOR ROAD BASE AND AC PAVING OPERATIONS ONLY. TRAFFIC TO BE RESTORED AT THE END OF EACH SHIFT.
3. CONSTRUCTION THE MEDIAN AND REMAINING CULVERTS AT LAKE MERCED BLVD.
   - 3.1. CONSTRUCT THE CURB LINE/ TURN BAY ON THE EAST SIDE OF LAKE MERCED BLVD
   - 3.2. CONSTRUCT THE CURB LINE ON THE WEST SIDE OF LAKE MERCED BLVD
   - 3.3. CONSTRUCT THE MEDIANS/TURN BAY
4. CONSTRUCT SIGNAL INFRASTRUCTURE AT ACEVEDO AVE. AND LAKE MERCED BLVD. INTERSECTION TO REMAIN CLOSED UNTIL ACEVEDO AVE./LAKE MERCED BLVD./ VIDAL DR. ROADWAYS COMPLETE.
5. CONSTRUCT CURB, GUTTER, BIORETENTION PLANTER AND SIDEWALK SCOPE ON ARBALLO DR. AND ACEVEDO AVE.
6. IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.
7. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.

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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION STAGING PLAN - STAGE 5a

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BRIAN K. SCOTT No. 61039 Exp. 12/31/18 CIVIL STATE OF CALIFORNIA

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No.	Revisions

Date: 05/01/17
Scale: 1"=60'
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Drawn: NL
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Drawing Number:

CS.05A

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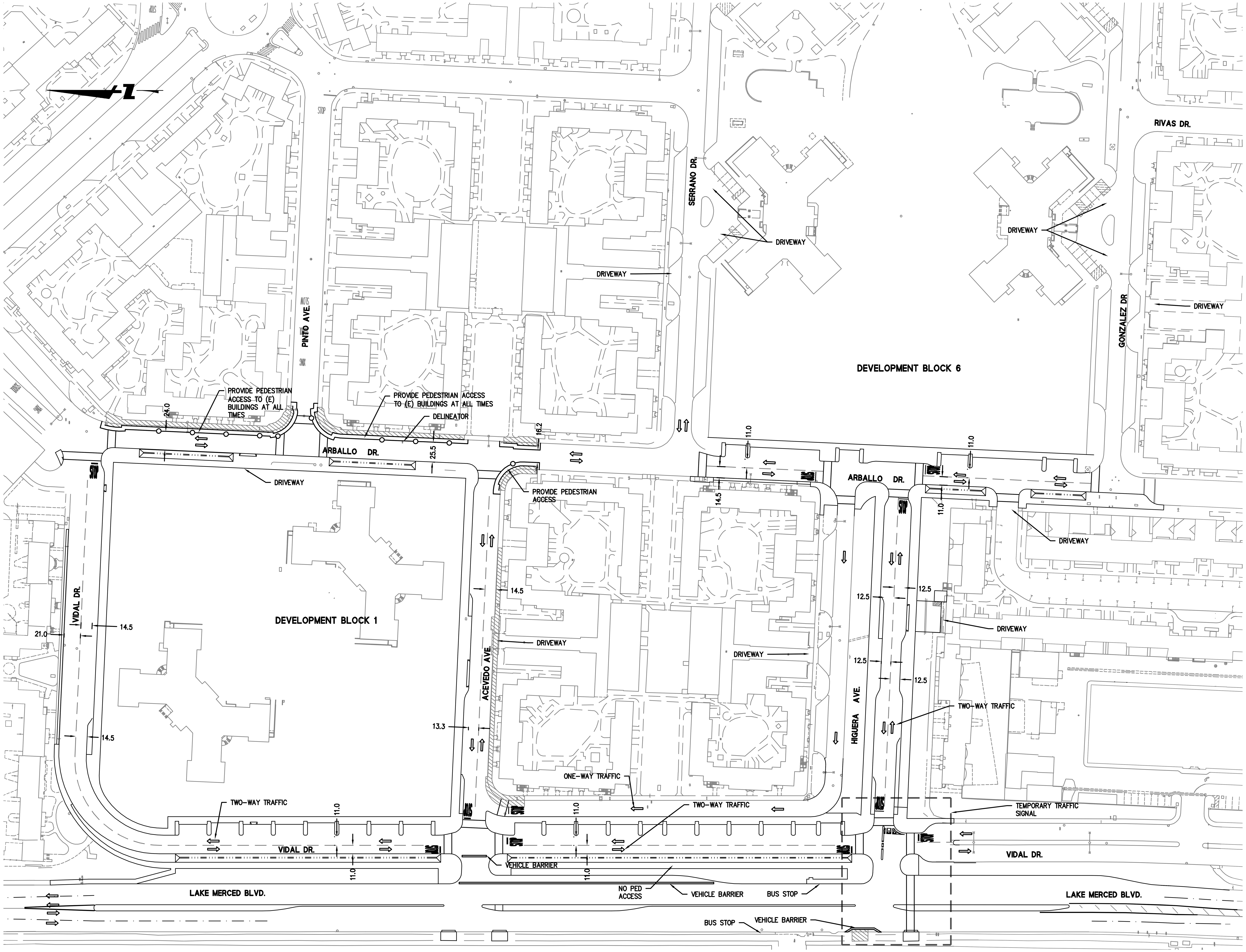

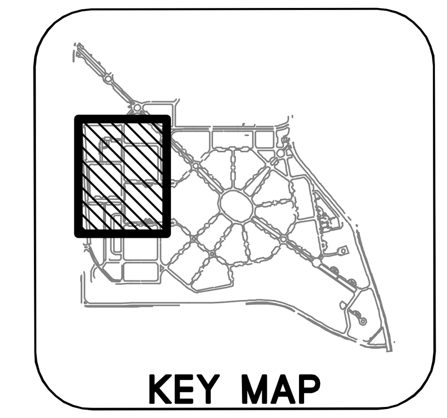

GRAPHIC SCALE

60 0 60 120

LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. CONSTRUCT CURB, GUTTER AND SIDEWALK ON ARBALLO DR. AND ACEVEDO AVE.
2. INSTALL STREET LIGHT CONDUIT ON THE SOUTH SIDE OF ACEVEDO AVE.
3. ACEVEDO /LAKE MERCED BLVD. INTERSECTION TO REMAIN CLOSED UNTIL ACEVEDO AVE./LAKE MERCED BLVD./ VIDAL DR. ROADS ARE COMPLETE.
4. IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.
5. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.

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CONSTRUCTION STAGING PLAN - STAGE 5b

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No.	Revisions

Date: 05/01/17
Scale: 1"=60'
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Drawing Number:

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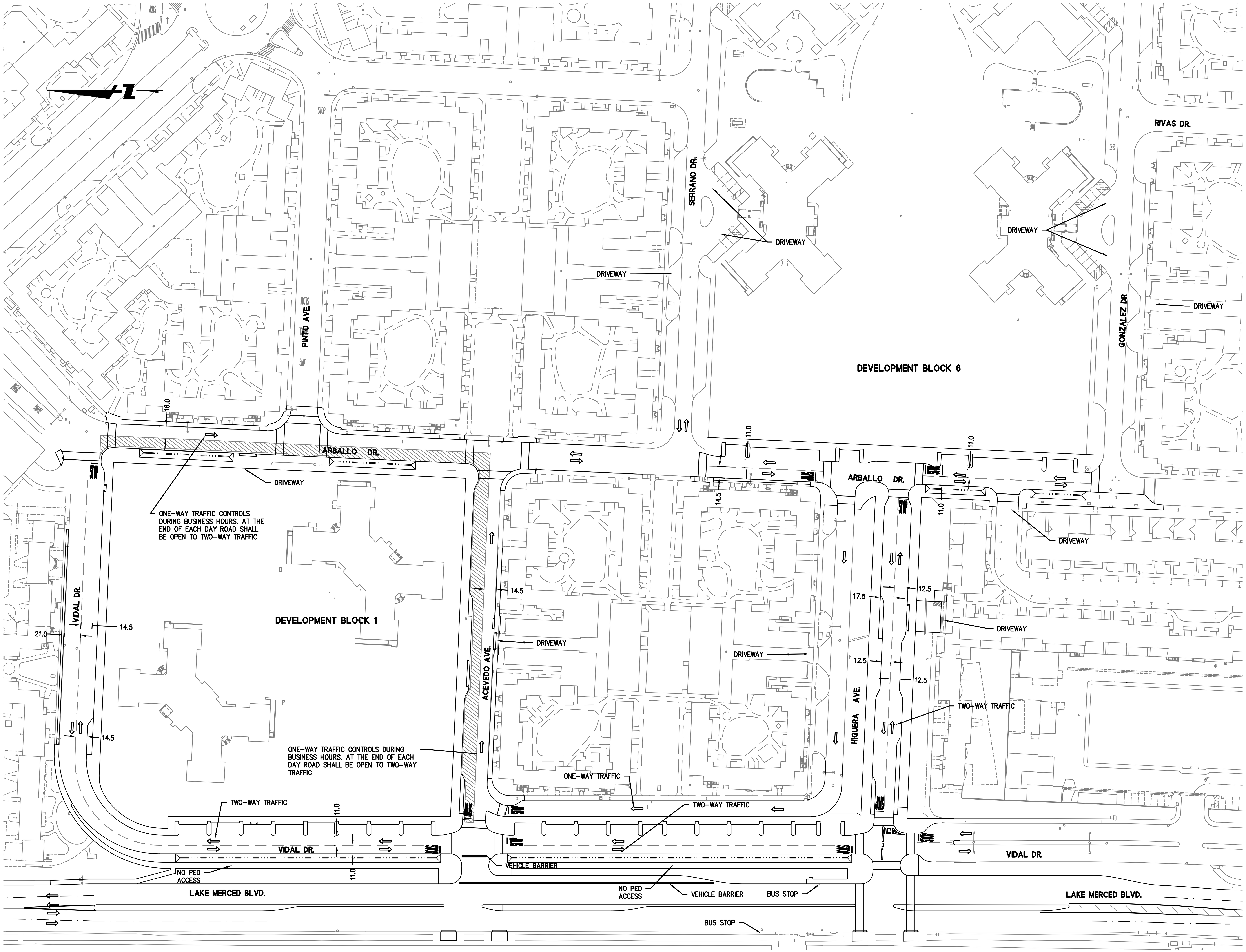

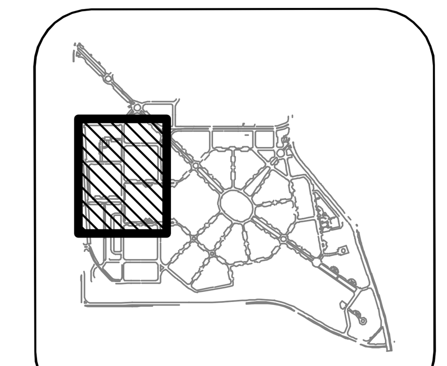

GRAPHIC SCALE

60 0 60 120

LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. *CONSTRUCT HARDSCAPE ON ARBALLO DR. AND ACEVEDO AVE.*
2. *ACEVEDO AVE./LAKE MERCED BLVD. INTERSECTION TO REMAIN CLOSED UNTIL ACEVEDO AVE./LAKE MERCED BLVD. / VIDAL DR. ROADS ARE COMPLETE.*
3. *IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.*
4. *IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.*

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CONSTRUCTION STAGING PLAN - STAGE 5c

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Approved: BS		
Job No: 20090086		

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CS.05C

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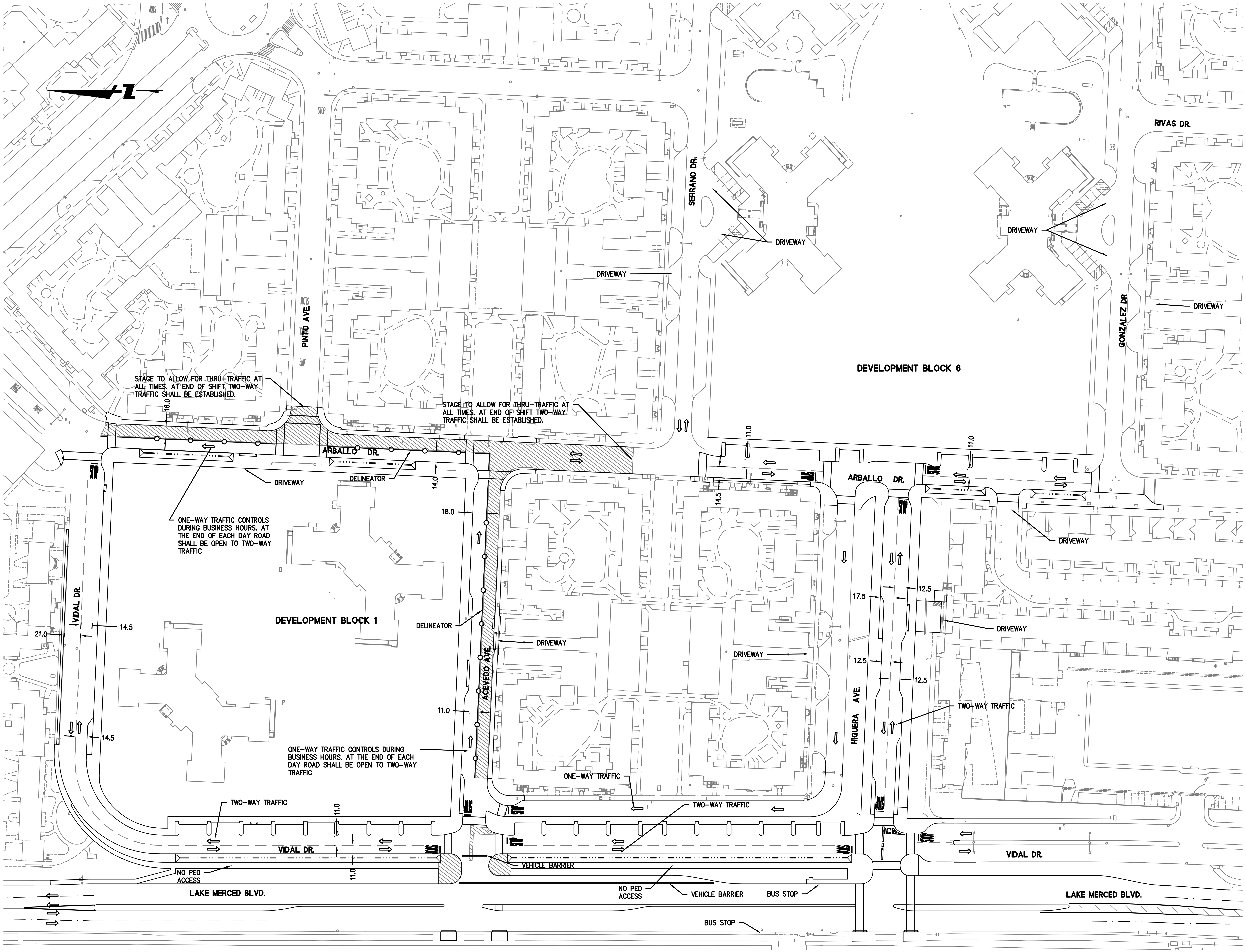

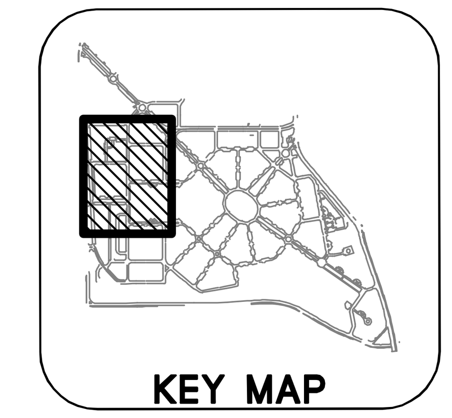

GRAPHIC SCALE
60 0 60 120

LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. CONSTRUCT REMAINING ROADWAY AND HARDSCAPE ON ARBALLO DR. AND ACEVEDO AVE.
2. ACEVEDO AVE./LAKE MERCED BLVD. INTERSECTION TO REMAIN CLOSED UNTIL ACEVEDO AVE. /LAKE MERCED BLVD. / VIDAL DR. ROADS ARE COMPLETE.
3. IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.
4. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.

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CONSTRUCTION STAGING PLAN - STAGE 5d

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Approved: BS		
Job No: 20090086		

Drawing Number:
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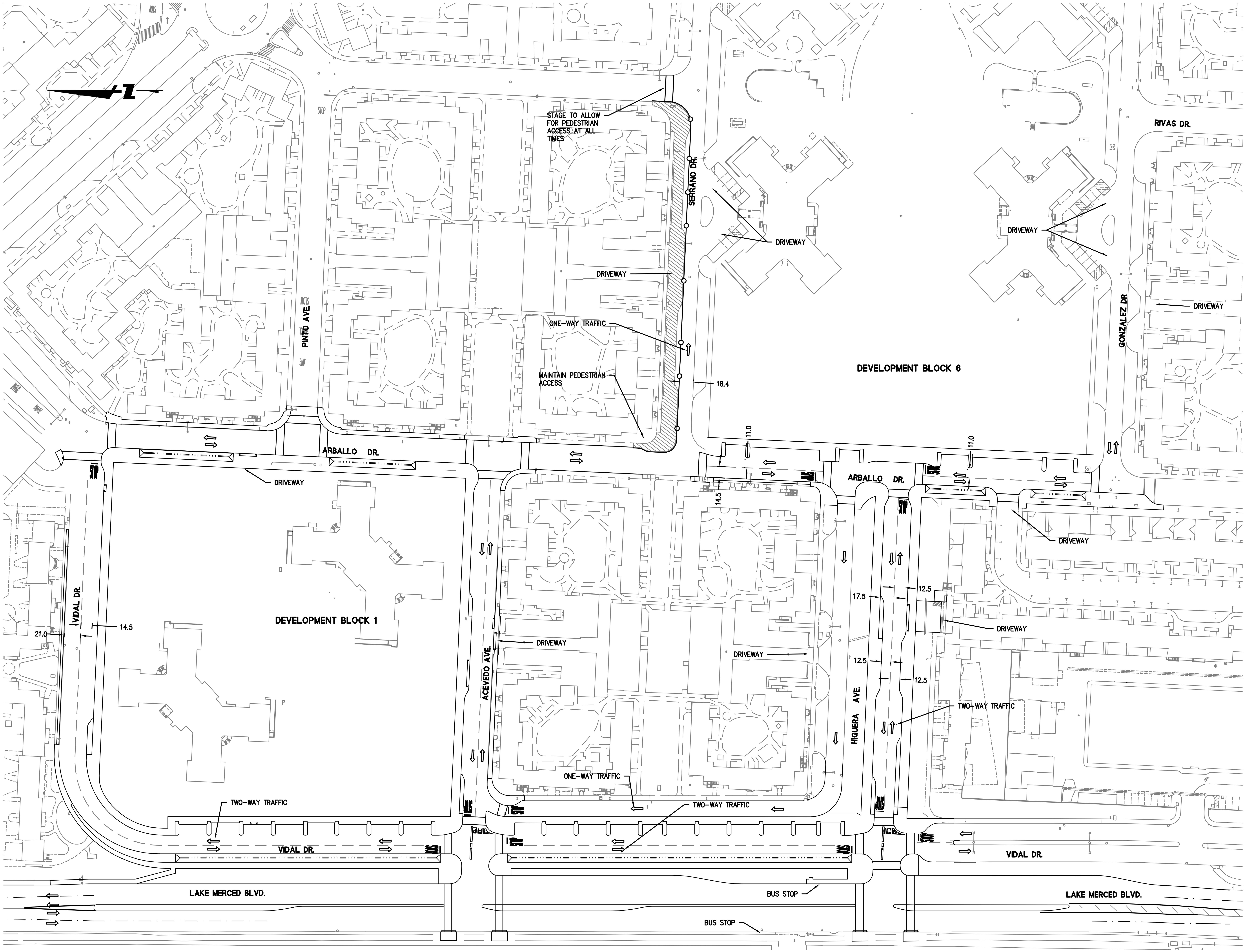

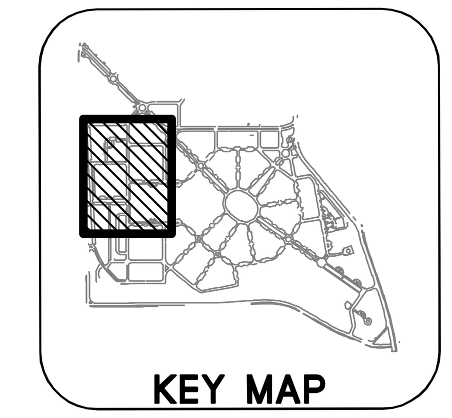

GRAPHIC SCALE

60 0 60 120

LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. COMMISSION SIGNAL AT ACEVEDO AVE. /LAKE MERCED BLVD. INTERSECTION.
2. CONSTRUCT CURB, GUTTER, BIORETENTION PLANTERS, AND SIDEWALK ON NORTH SIDE OF SERRANO DR.
3. IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.
4. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.

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No.	Revisions

Date: 05/01/17
Scale: 1"=60'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number: CS.06A

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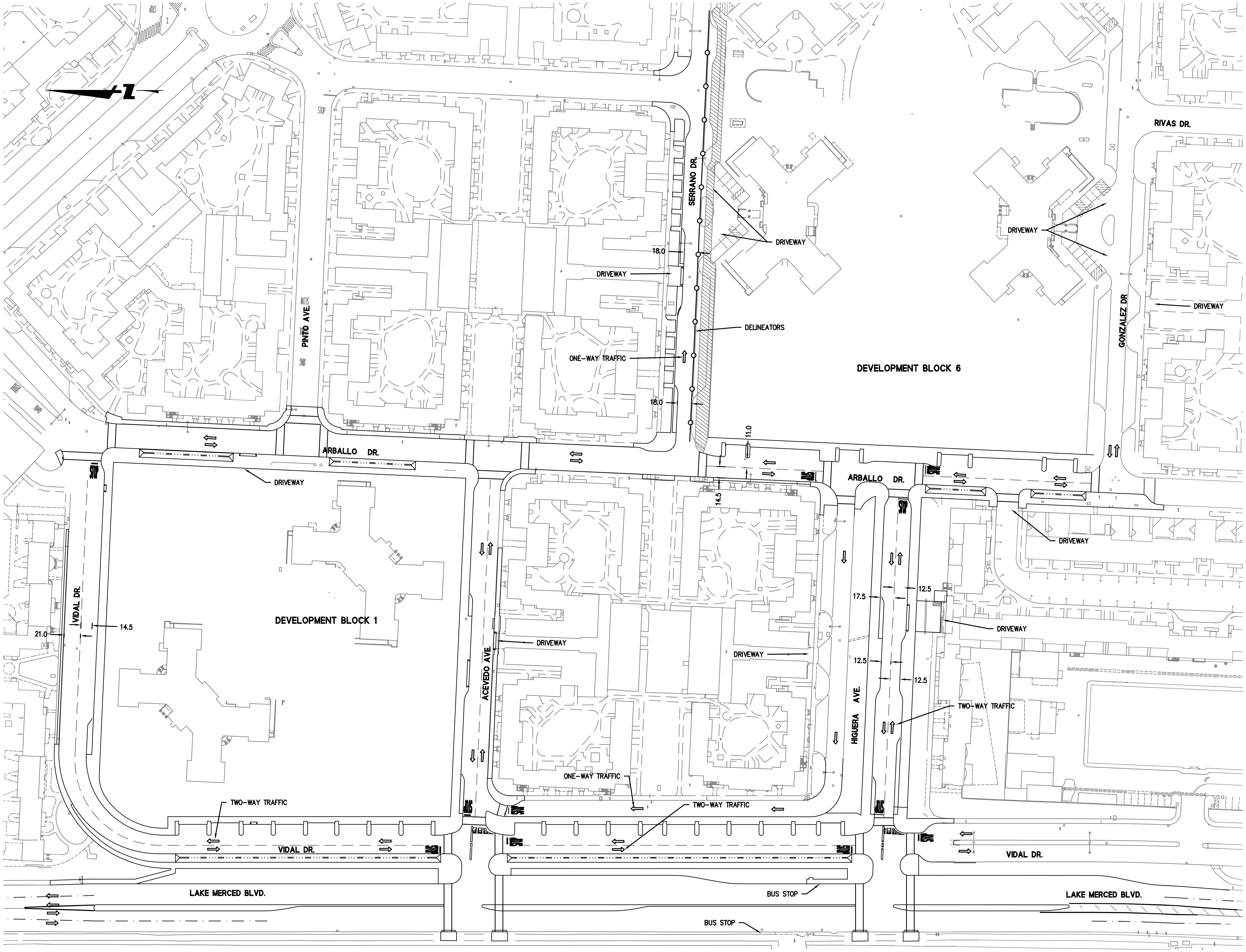

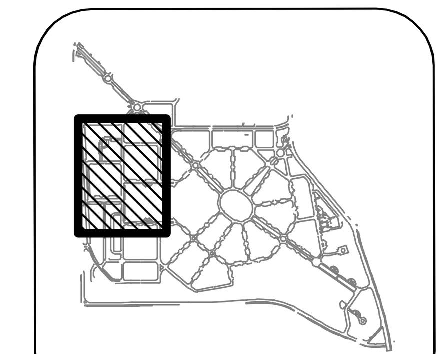

KEY MAP

GRAPHIC SCALE

60 0 60 120

LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. *CONSTRUCT CURB, GUTTER, BIORETENTION PLANTERS, AND SIDEWALK ON SOUTH SIDE OF SERRANO DR.*
2. *IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.*
3. *IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.*

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No.	Revisions

Date: 05/01/17
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Drawn: NL
Approved: BS
Job No: 200900086

Drawing Number:

CS.06B

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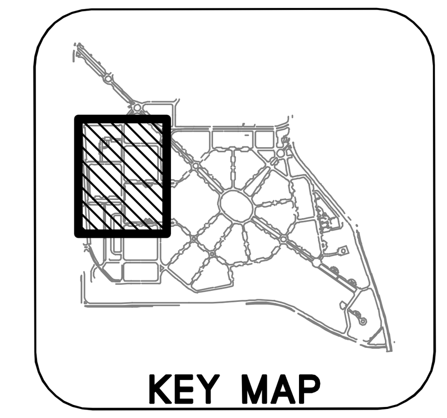

GRAPHIC SCALE

60 0 60 120

LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. CONSTRUCT ROADWAY ON NORTH SIDE OF SERRANO DR.
2. IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.
3. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.

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No.	Revisions

Date: 05/01/17
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Approved: BS
Job No: 20090086

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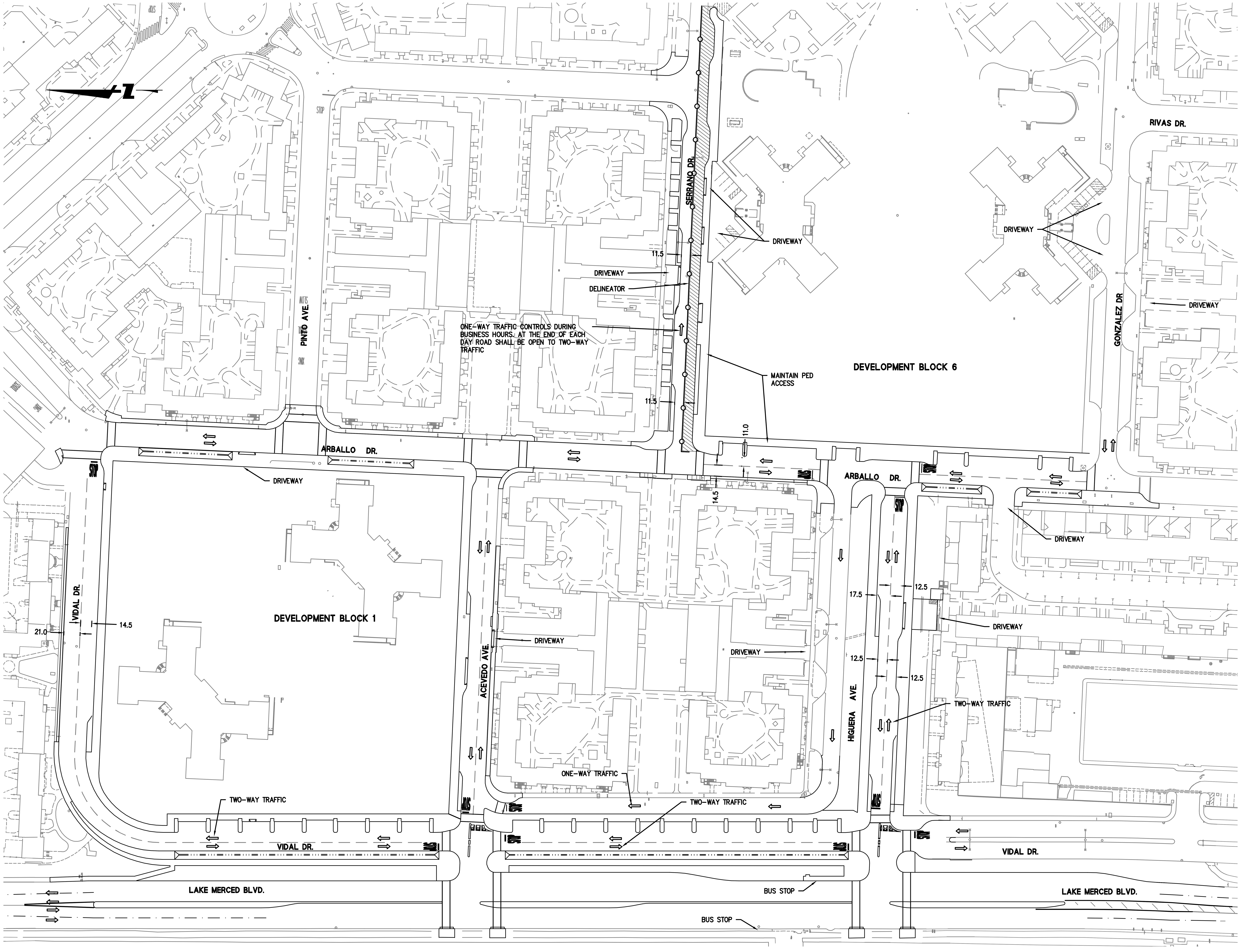

KEY MAP

GRAPHIC SCALE

60 0 60 120

LEGEND:

AREA OF WORK

DIRECTIONAL ARROW

TEMPORARY STRIPING

DELINEATORS

SHEET NOTES:

1. CONSTRUCT ROADWAY ON SOUTH SIDE OF SERRANO DR.
2. IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.
3. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.

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CS.06D

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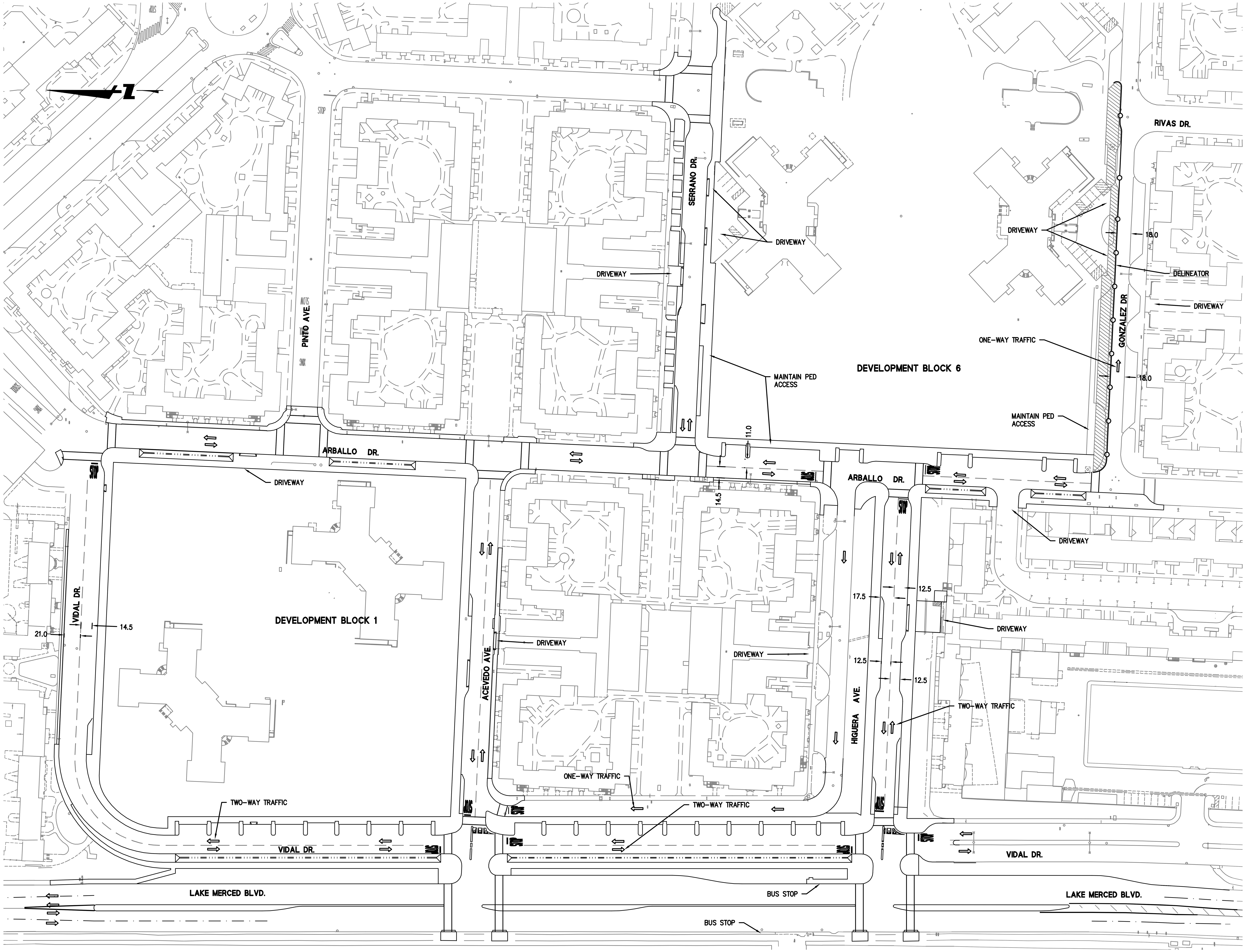

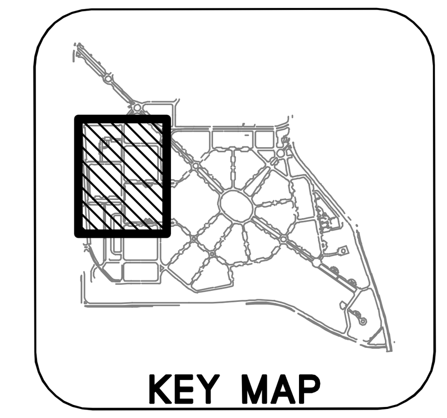

GRAPHIC SCALE

60 0 60 120

LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. CONSTRUCT CURB, GUTTER, BIORETENTION PLANTERS, AND SIDEWALK ON NORTH SIDE OF GONZALEZ DR.
2. IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.
3. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.

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PHASE 1A STREET IMPROVEMENT PLANS

CONSTRUCTION STAGING PLAN - STAGE 7a

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

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Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

CS.07A

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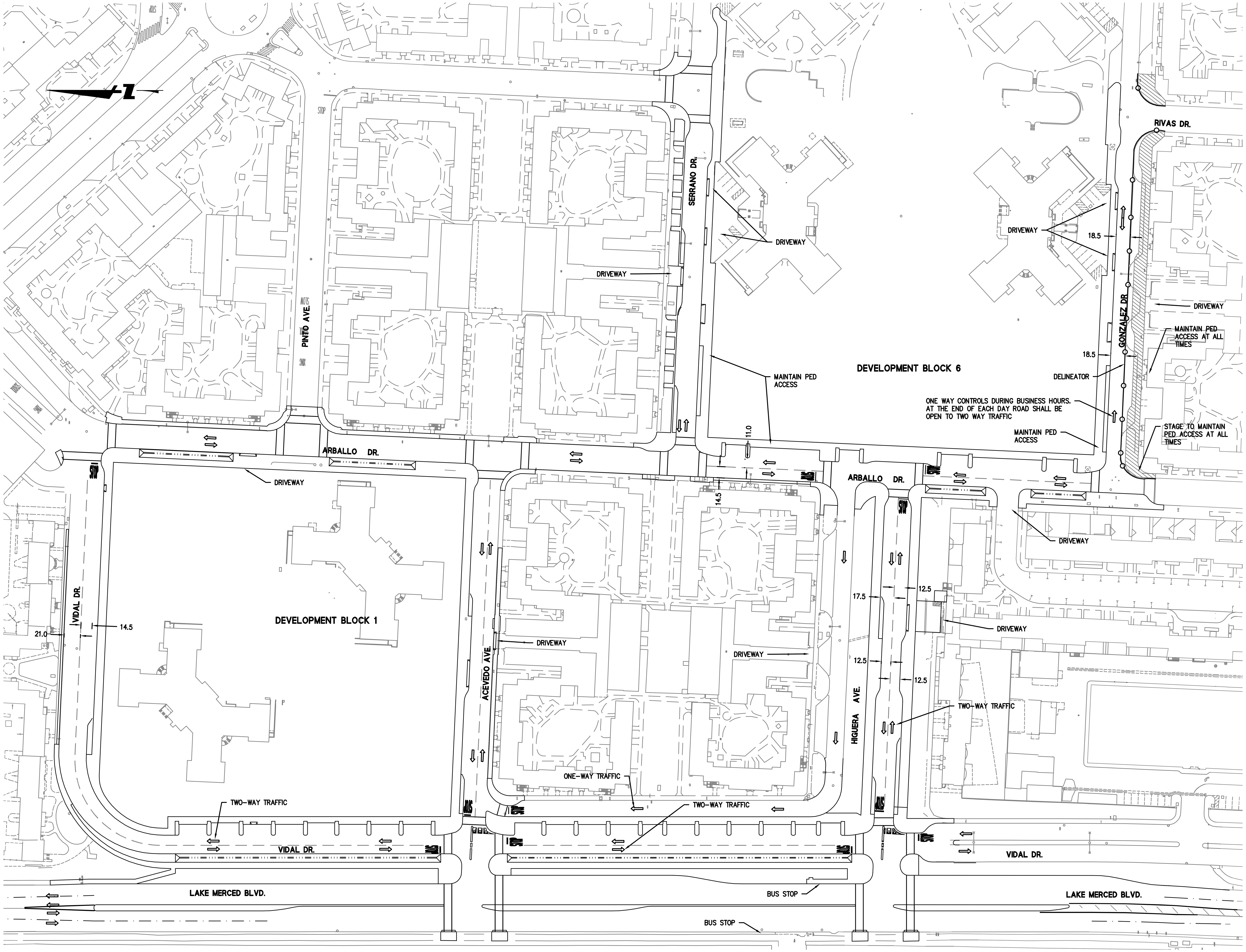

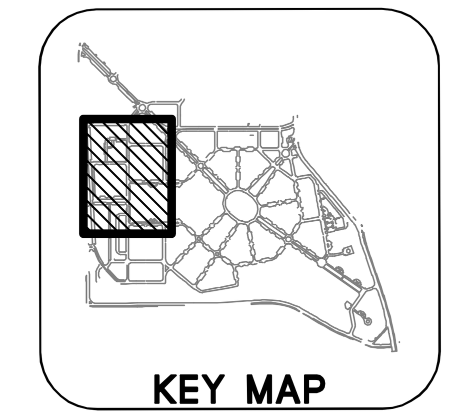

GRAPHIC SCALE

60 0 60 120

LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. CONSTRUCT CURB, GUTTER, BIORETENTION PLANTERS, AND SIDEWALK ON SOUTH SIDE OF GONZALEZ DR.
2. IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.
3. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.

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CONSTRUCTION STAGING PLAN - STAGE 7b

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

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No.	Revisions

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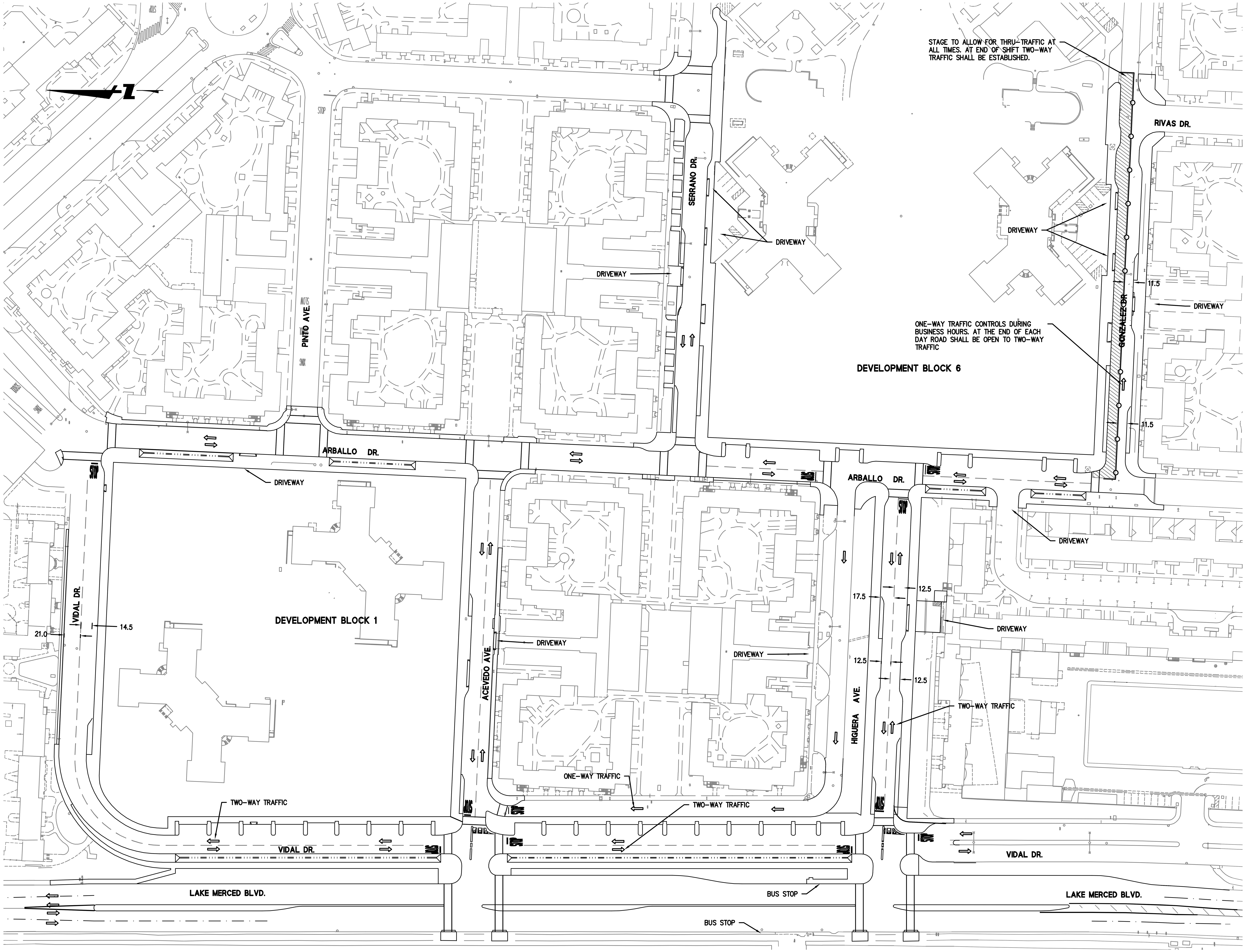

KEY MAP

GRAPHIC SCALE

60 0 60 120

LEGEND:

AREA OF WORK

DIRECTIONAL ARROW

TEMPORARY STRIPING

DELINEATORS

SHEET NOTES:

1. CONSTRUCT ROADWAY ON NORTH SIDE OF GONZALEZ DR.
2. IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.
3. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.

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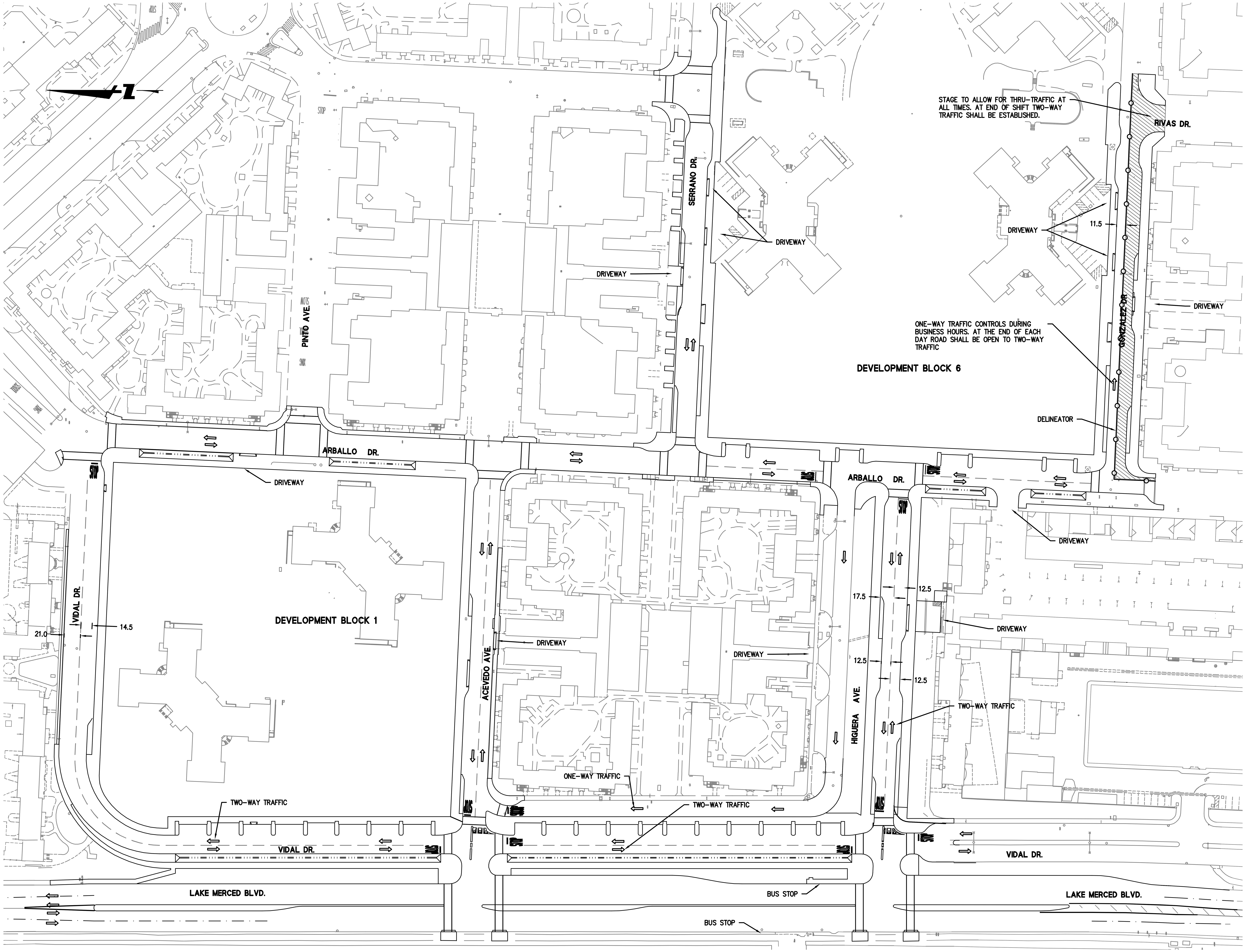

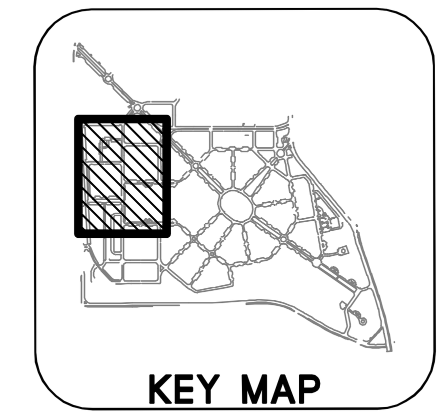

GRAPHIC SCALE
60 0 60 120

LEGEND:

AREA OF WORK
DIRECTIONAL ARROW
TEMPORARY STRIPING
DELINEATORS

SHEET NOTES:

1. CONSTRUCT ROADWAY ON SOUTH SIDE OF GONZALEZ DR.
2. IRRIGATION SLEEVES TO BE INSTALLED PRIOR TO HARDSCAPE.
3. IRRIGATION AND STREET LIGHT CONDUIT TO BE INSTALLED AFTER CURB AND GUTTER AND PRIOR TO SIDEWALK.

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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION STAGING PLAN - STAGE 7d

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

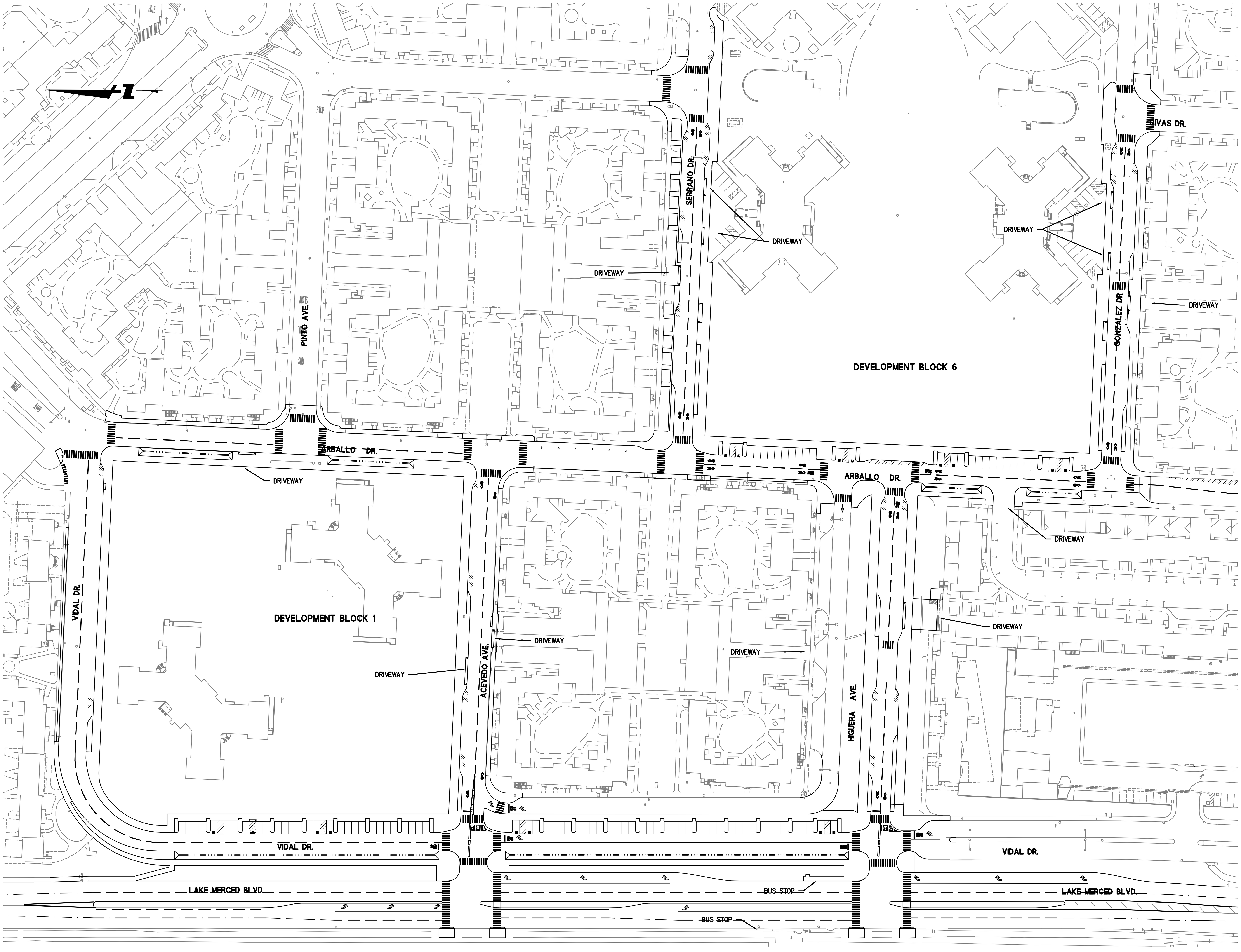
No.	Revisions

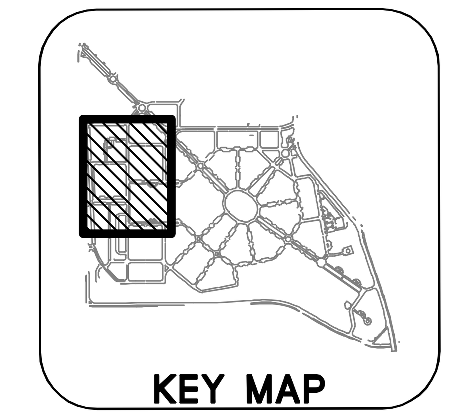
Date: 05/01/17
Scale: 1"=60'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
CS.07D

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-CS00.dwg (CS.07D)
PLOT TIME: 4-28-2017 4:48 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17





GRAPHIC SCALE

60 0 60 120

LEGEND:

- AREA OF WORK
- DIRECTIONAL ARROW
- TEMPORARY STRIPING
- DELINEATORS

SHEET NOTES:

1. PLANTING IS TO TAKE PLACE AFTER HARDSCAPE IS COMPLETE IN EACH STAGE. PERFORM ONCE ADEQUATE SPACE IS AVAILABLE SO AS TO ALLOW FOR A CONTINUOUS OPERATION WITHOUT REMOBILIZATION AND AS TO NOT CONFLICT WITH OTHER SCOPE OF WORK.

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PHASE 1A STREET IMPROVEMENT PLANS
CONSTRUCTION STAGING PLAN - STAGE 8

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BRIAN K. SCOTT No. 61034 Exp. 12/31/18 CIVIL STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

No.	Revisions

Date: 05/01/17
Scale: 1"=60'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:

CS.08

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-CS00.dwg (CS.08)
PLOT TIME: 4-28-2017 4:48 PM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

AUXILIARY WATER SUPPLY SYSTEM (AWSS) AT PARK MERCED

GENERAL NOTES

1. EXISTING BURIED UTILITIES ARE INDICATED ON THE DRAWINGS WHERE SUCH UTILITIES ARE KNOWN. THE LOCATION AND EXTENT OF SUCH UTILITIES ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE, PROTECT AND MAINTAIN ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. ONLY ACTUAL POTHOLE EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE KNOWN UNDERGROUND UTILITIES. HOWEVER, THE CITY, OWNER, THE UTILITY OWNER AND THE CITY REPRESENTATIVE CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED.
2. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT UTILITY LINES AND STRUCTURES SHOWN AS WELL AS ANY AND ALL OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS DURING PIPELINE CONSTRUCTION. CONTRACTOR SHALL PROTECT IN PLACE ALL OVERHEAD INTERFERENCE. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS, AND/OR OTHER UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.
3. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) 7 DAYS PRIOR TO ANY CONSTRUCTION AND EXCAVATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL NECESSARY UTILITY RELOCATIONS.
5. CONTRACTOR WORK AROUND EXISTING UTILITIES SHALL BE IN CONFORMANCE WITH CALIFORNIA GOVERNMENT CODE 421 6.
6. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT CROSSINGS OF EXISTING AND PROPOSED UTILITIES AND PRIOR TO THE STAKING OF THE PROPOSED UTILITIES AND PRIOR TO ANY EXCAVATION FOR PROPOSED UTILITY INSTALLATION. CONTRACTOR SHALL MEASURE THE ELEVATION OF THE EXISTING UTILITIES AND CHECK FOR CONFLICTS WITH THE PROPOSED UTILITIES. IF A GRADE CONFLICT DOES OCCUR, THE CONTRACTOR SHALL PROVIDE SUCH INFORMATION TO THE ERDIP MANUFACTURER TO PROPOSE TO THE CITY ANY DESIGN GRADE ADJUSTMENT NECESSARY TO RESOLVE THE GRADE CONFLICT.
7. IF THERE ARE ANY DISCREPANCIES BETWEEN DIMENSIONS AND LOCATIONS SHOWN IN DRAWINGS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL PROVIDE SUCH INFORMATION TO THE ERDIP MANUFACTURER TO PROPOSE TO THE CITY ANY NECESSARY DESIGN CHANGES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS AND PERSONS ENGAGED UPON THE CONTRACT.
8. CONTRACTOR TO INSTALL VALVE & VALVE BOX IN AN ORIENTATION THAT ALLOWS MAXIMUM CLEARANCE WITH ADJACENT UTILITIES.

SURVEY NOTES

1. PROPERTY AND RIGHT-OF-WAY LINES SHOWN HEREON ARE BASED ON RECORD DATA AND NOT INTENDED TO BE A DETAILED FINAL SURVEY OF THE PROPERTY. *BOUNDARY INFORMATION SHOWN HERE ON IS FOR PLANNING PURPOSES ONLY.*

BASIS OF BEARING

THE BEARING OF NORTH 46° 36' 00" WEST BETWEEN THE FOUND MONUMENT AT THE INTERSECTION OF GARCES DRIVE AND BUCARELI DRIVE AND THE FOUND MONUMENT AT THE NORTHERLY INTERSECTION OF CRESPI DRIVE AND JUAN BAUTISTA CIRCLE AS SHOWN ON CITY AND COUNTY OF SAN FRANCISCO MONUMENT MAP T-13-6.

BENCHMARK:

BM10510 – 2 1/2" DOMED BRASS DISK AT THE NORTHEAST CORNER OF LAKE MERCED BLVD & BROTHERHOOD WAY, STAMPED "T-0158." IN CONCRETE ISLAND FORMED BY NORTH BOUND LAKE MERCED BLVD & TURN LANES OF WEST BOUND BROTHERHOOD WAY. 10.3' NORTH OF NORTH FACE OF CURB OF HANDICAP RAMP IN ISLAND. 10.3' EAST OF PEDESTRIAN TRAFFIC SIGNAL. 6.7' EAST OF EAST FACE OF CURB OF LAKE MERCED BLVD.
ELEVATION=52.034' (NAVD 88 DATUM)

VERTICAL DATUM STATEMENT: THE ELEVATIONS SHOWN ON THIS SURVEY WERE BASED ON THE CITY & COUNTY OF SAN FRANCISCO 2013 NAVD88 VERTICAL DATUM.

HORIZONTAL DATUM STATEMENT: ALL COORDINATES HEREIN ARE BASED ON THE CITY & COUNTY OF SAN FRANCISCO'S 2013 HIGH PRECISION NETWORK SURVEY AND REFLECT THE LOCAL CUSTOM COORDINATE SYSTEM CREATED BY SAID SURVEY AND REFERRED TO AS THE CITY & COUNTY OF SAN FRANCISCO COORDINATE SYSTEM (CCSF-CS)

ABBREVIATIONS

SYMBOL	DESCRIPTION
ASSY	ASSEMBLY
AWSS	AUXILIARY WATER SUPPLY SYSTEM
BS	BELL AND SPIGOT PIPE
CIP	CAST IRON PIPE
CCSF	CITY AND COUNTY OF SAN FRANCISCO
CS	COMBINED SEWER
DI	DUCTILE IRON
ERDIP	EARTHQUAKE RESISTANT DUCTILE IRON PIPE
(E), EX.	EXISTING
FH	FIRE HYDRANT
FLG	FLANGE
(F)	FUTURE
G	GAS
GV	GATE VALVE
JT	JOINT TRENCH
LAT	LATERAL
Lt	LEFT
LPW	LOW PRESSURE WATER
MJ	MECHANICAL JOINT
PVI	POINT OF VERTICAL INFLECTION
(P)	PROPOSED
RW	RECYCLED WATER
Rt	RIGHT
SD	STORM DRAIN
SS	SANITARY SEWER
SFDPW	SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS
SFFD	SAN FRANCISCO FIRE DEPARTMENT
SFPUC	SAN FRANCISCO PUBLIC UTILITIES COMMISION
SFWD	SAN FRANCISCO WATER DEPARTMENT
SL	SPRING LINE
X-ING	CROSSING
W	WATER

LEGEND

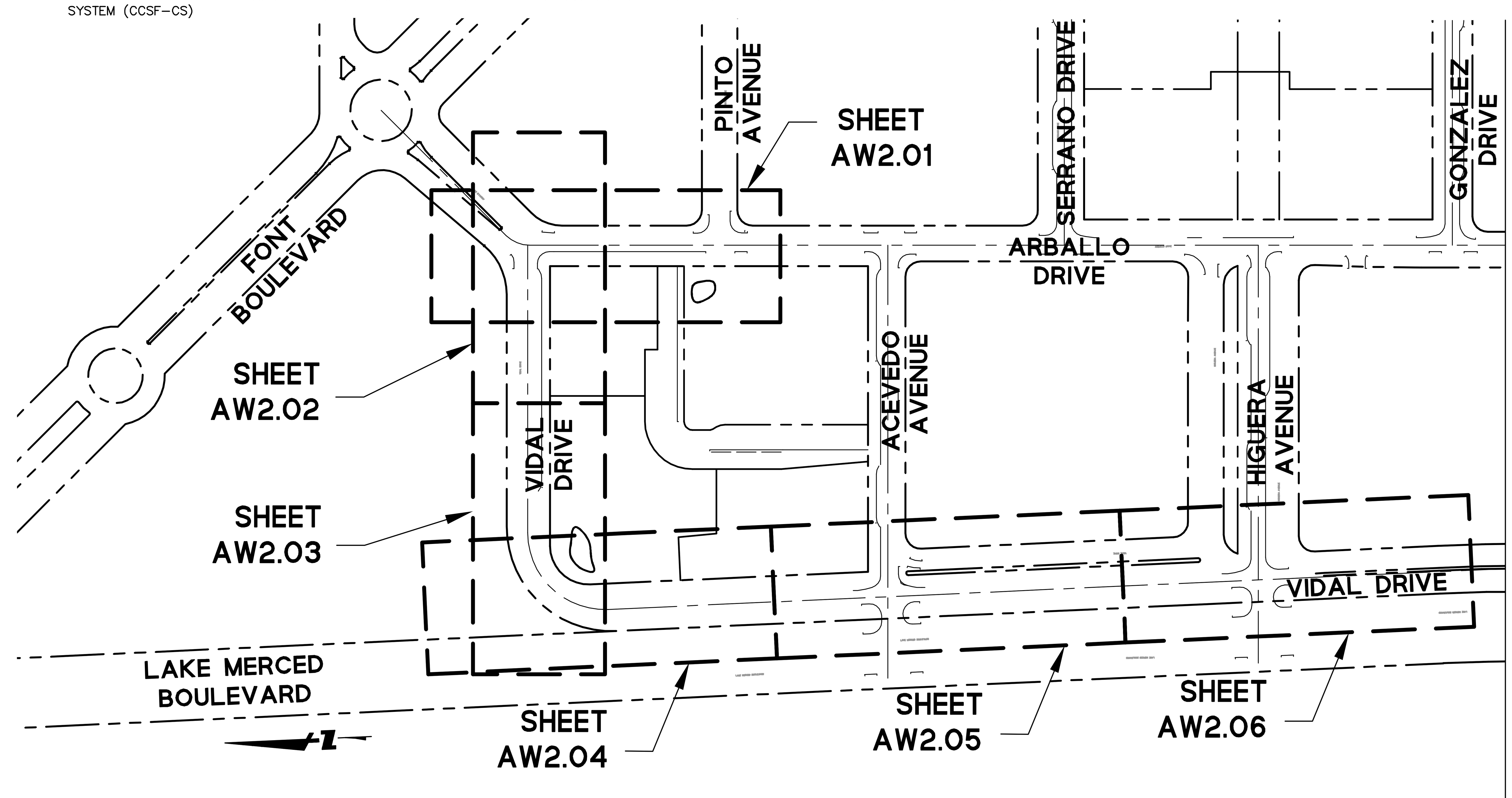
PROPOSED

- AWSS
- GATE VALVE
- FIRE HYDRANT
- AIR VALVE
- GATE VALVE VAULT

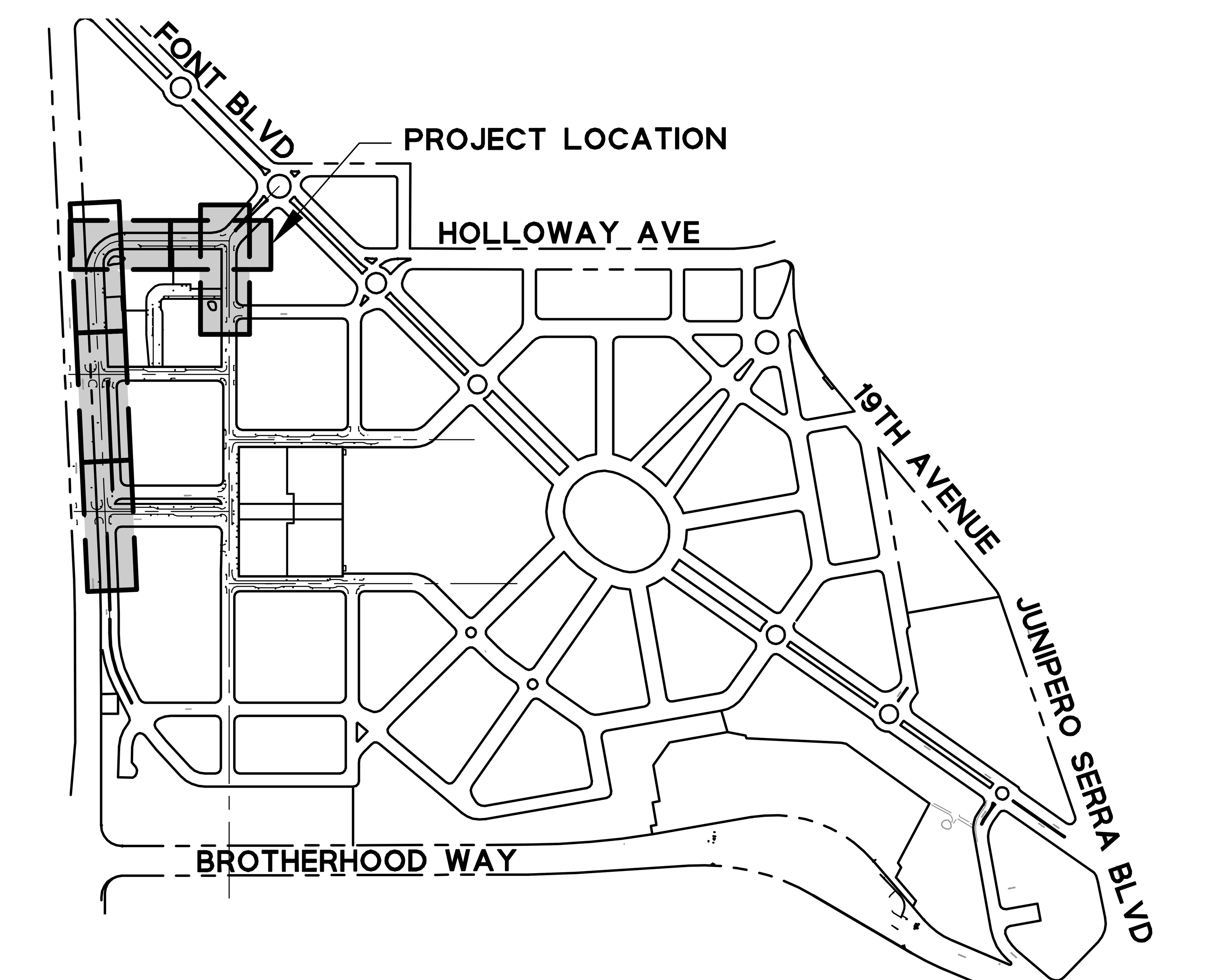
ERDIP MATERIALS

P1	NS-PIPES CLASS DS CEMENT MORTAR LINING (20"x19.69") (NOTE: P1 NOT CALLED OUT ON DRAWING)
P2	NS-PIPES CLASS DS CEMENT MORTAR LINING (20" CUT PIPE)
P3	GX CLASS D1 CEMENT MORTAR LINING (8"x16.40")
F1	NS-DOUBLE SOCKET TEES 20"x14"
F2	NS-DOUBLE SOCKET LEVEL INVERT TEES WITH SOCKET BRANCH 20"x8"
F3,X°	NS-SOCKET SPIGOT BENDS 20", X DEG.
F4	NS-SOCKET PIPE WITH FLANGE (FLANGED SOCKET) (CLASS 300) 20"
F5	NS-SPIGOT PIPE WITH FLANGE (FLANGED SPIGOT) (CLASS 300) 20"
F5,8"	NS-SPIGOT PIPE WITH FLANGE (FLANGED SPIGOT) (CLASS 300) 8"
F6	NS-COLLARS (SOLID SLEEVES) 20"
F7	NS-DOUBLE SOCKET BENDS 20", X DEG
F8	NS-DOUBLE SOCKET TEES 20"x20"
V1	AWSS 20" GATE VALVE

LIST OF DRAWINGS



KEY PLAN



LOCATION PLAN

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PHASE 1A STREET IMPROVEMENT PLANS
AWSS COVER SHEET
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER YOUSRA TILDEN No. C48742 Exp. 9/30/18 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

No.	Revisions

Date: 05/01/17
Scale: N.T.S
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

Drawing Number:
AW1.00

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW100.dwg (AW1.00)
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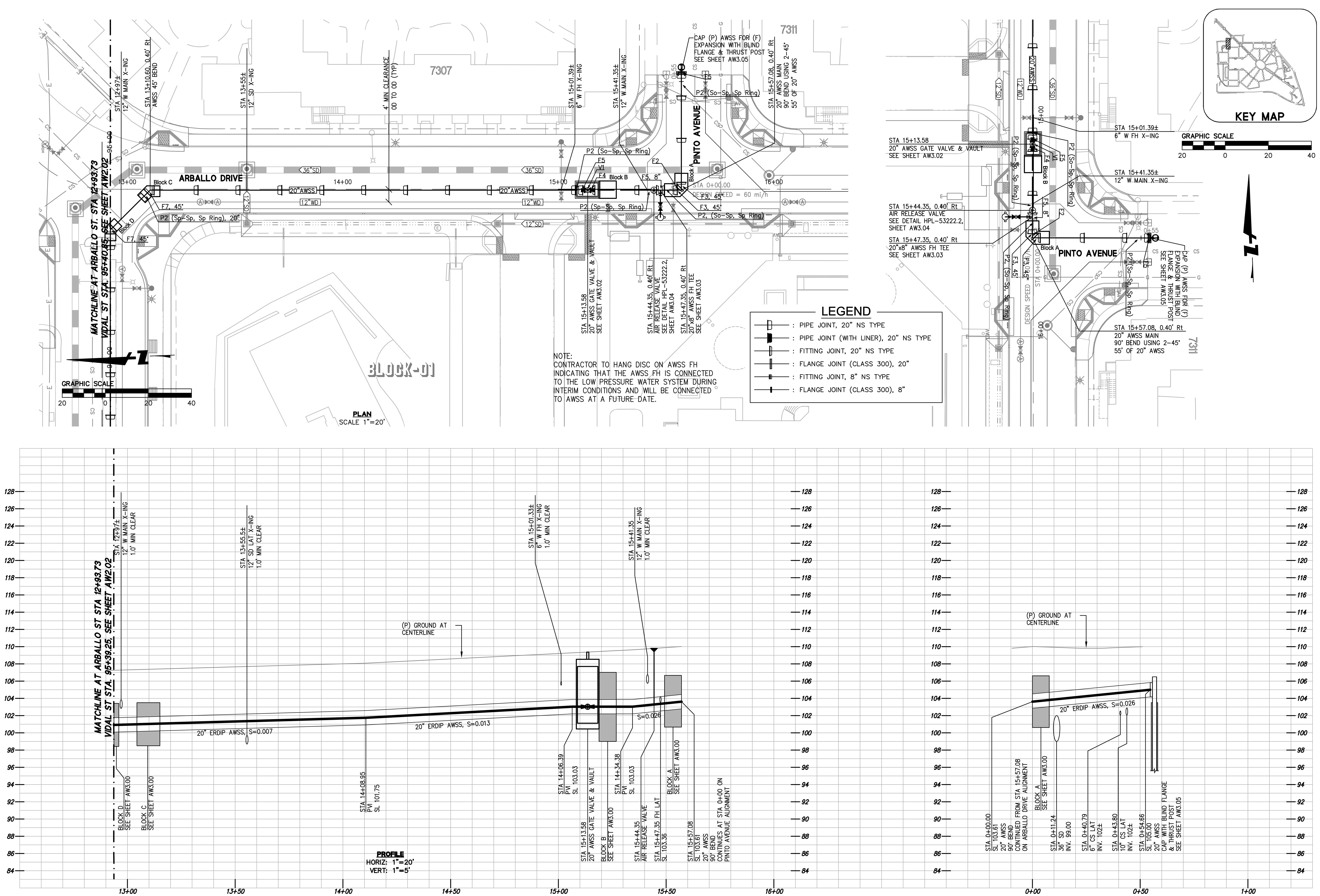

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PHASE 1A STREET IMPROVEMENT PLANS
AWSS PLAN & PROFILE – ARBALLO DRIVE
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

Drawing Number:
AW2.01

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW201-I.dwg (AW2.01)
PLOT TIME: 5-1-2017 7:35 AM PLOTTED BY: bum

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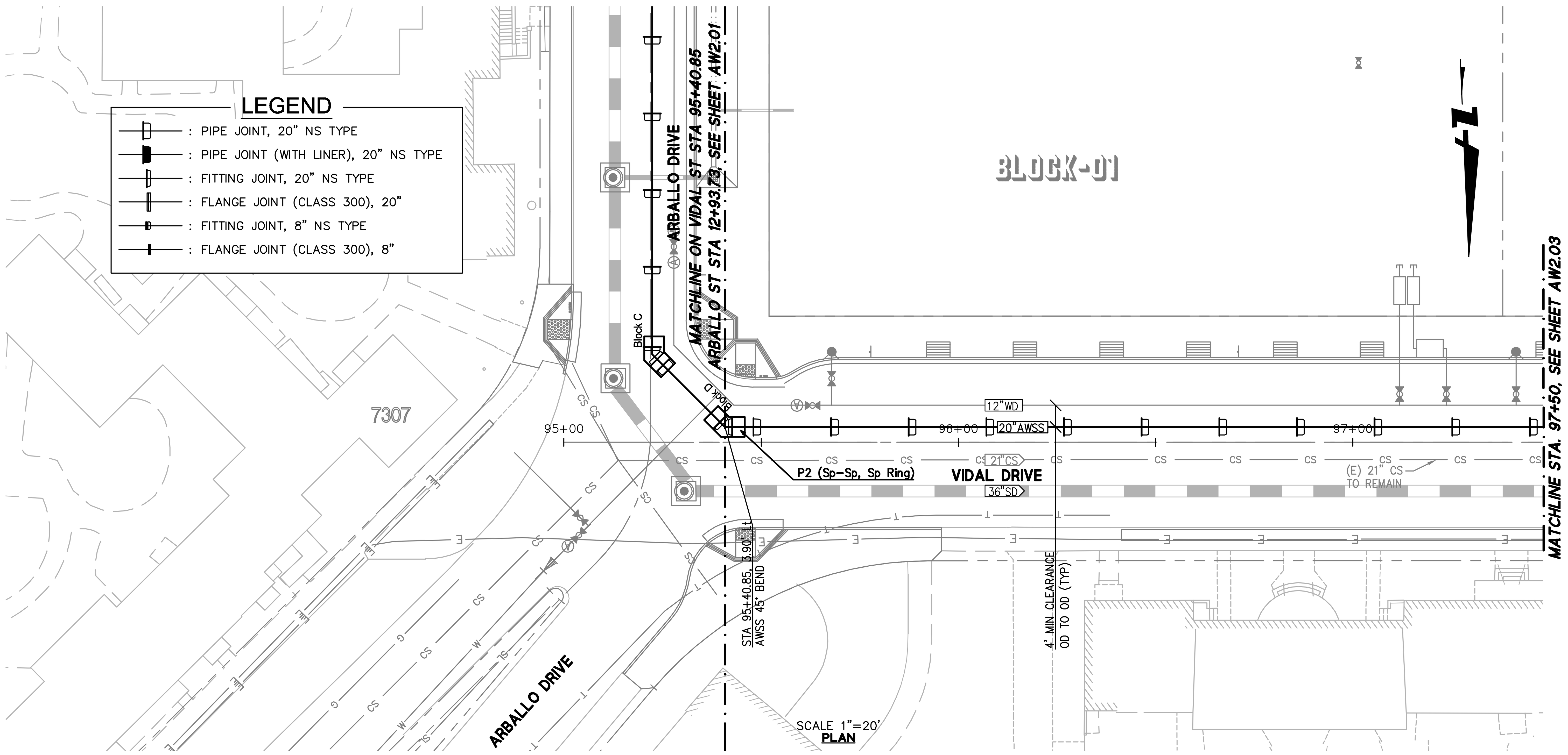
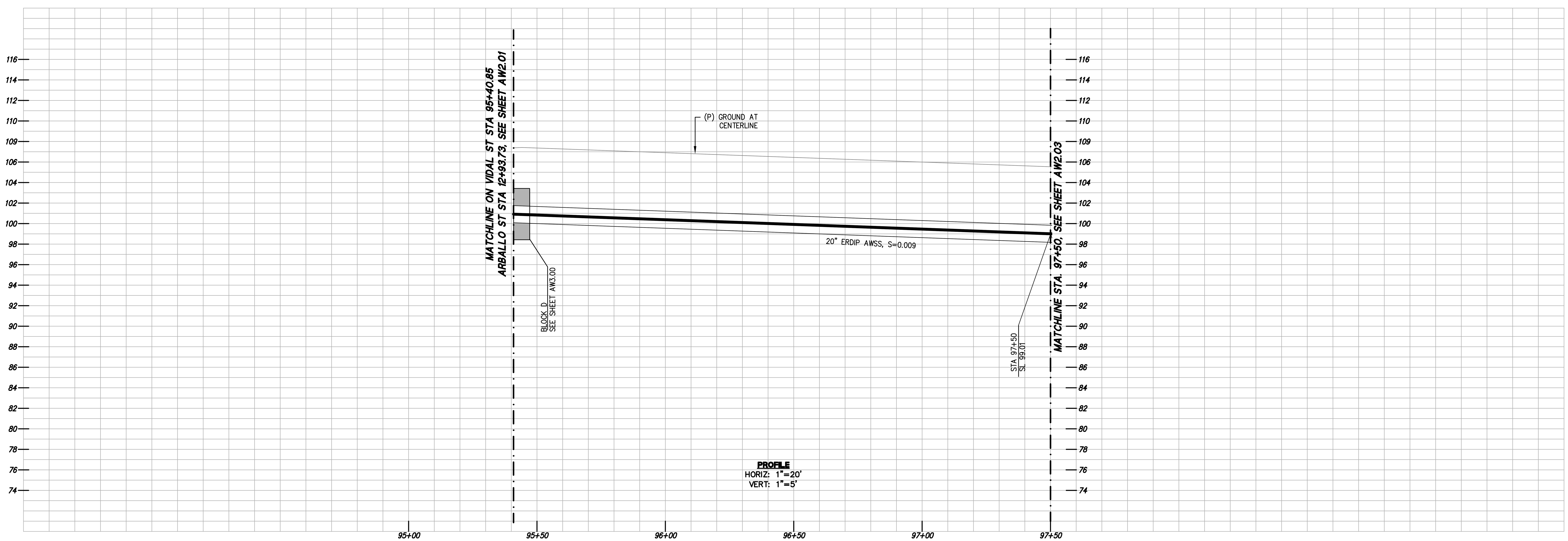


KEY MAP

GRAPHIC SCALE

20 0 20 40

NOTE:
CONTRACTOR TO HANG DISC ON AWSS FH INDICATING THAT THE AWSS FH IS CONNECTED TO THE LOW PRESSURE WATER SYSTEM DURING INTERIM CONDITIONS AND WILL BE CONNECTED TO AWSS AT A FUTURE DATE.



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PHASE 1A STREET IMPROVEMENT PLANS
AWSS PLAN & PROFILE - VIDAL DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

Drawing Number:
AW2.02

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW202-A.dwg (AW2.02)
PLOT TIME: 5-1-2017 7:57 AM PLOTTED BY: bum

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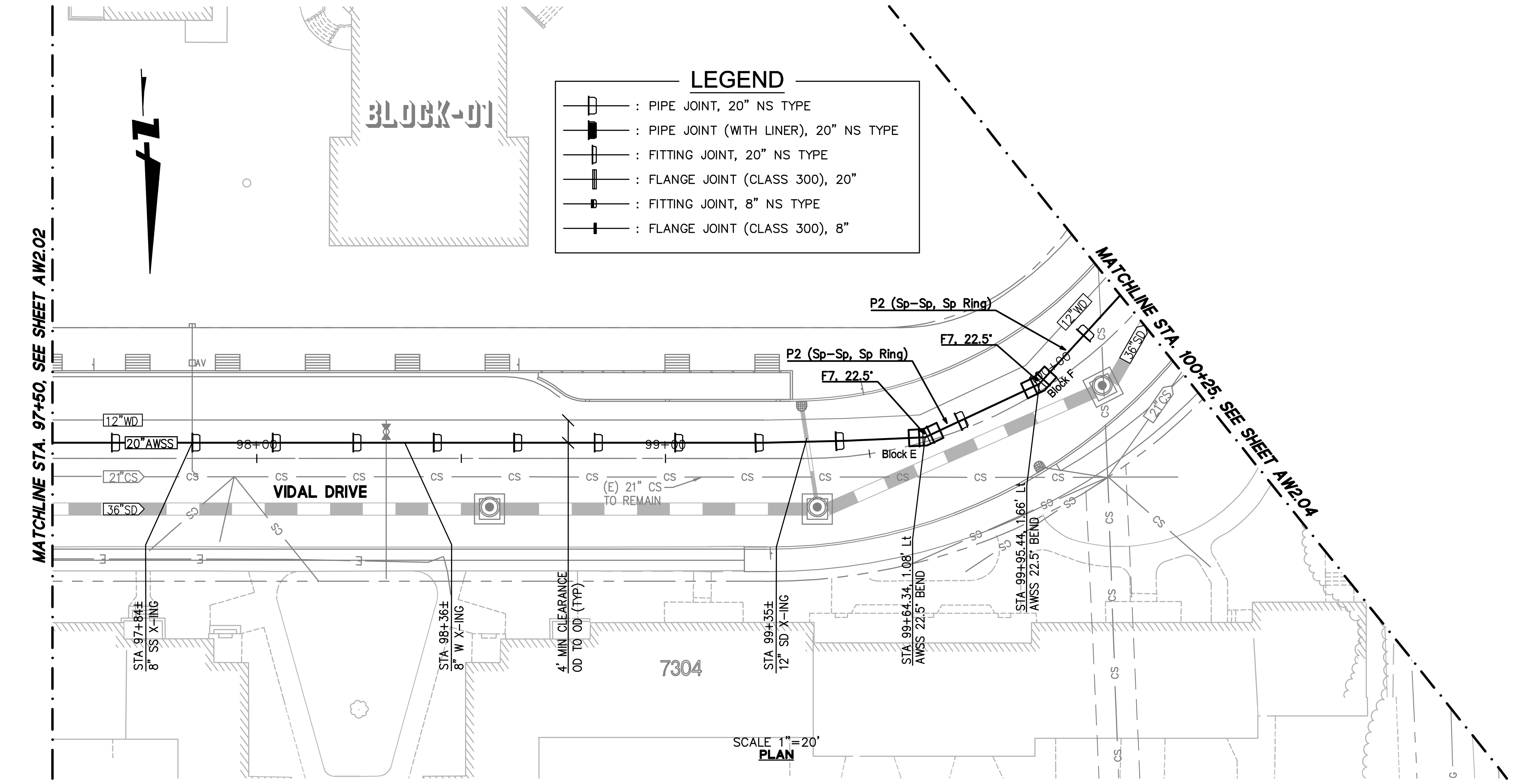

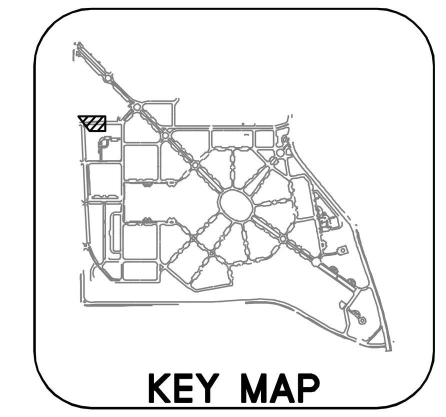

GRAPHIC SCALE
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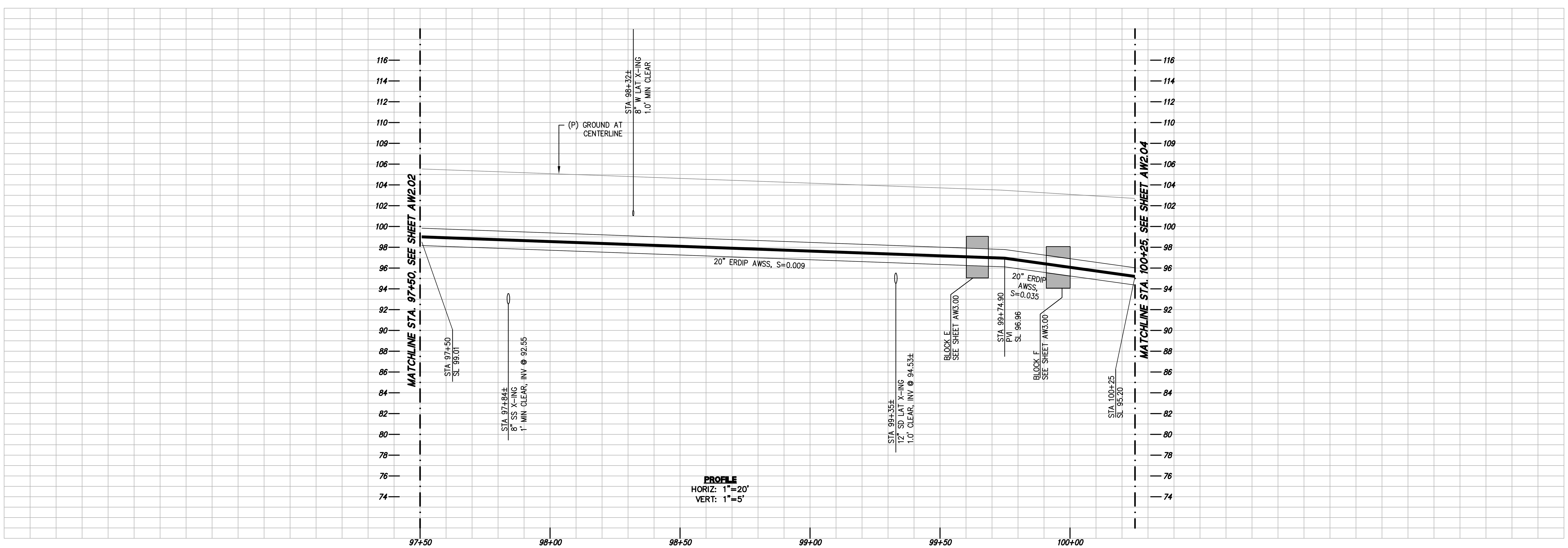

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AWSS PLAN & PROFILE - VIDAL DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

Drawing Number:
AW2.03

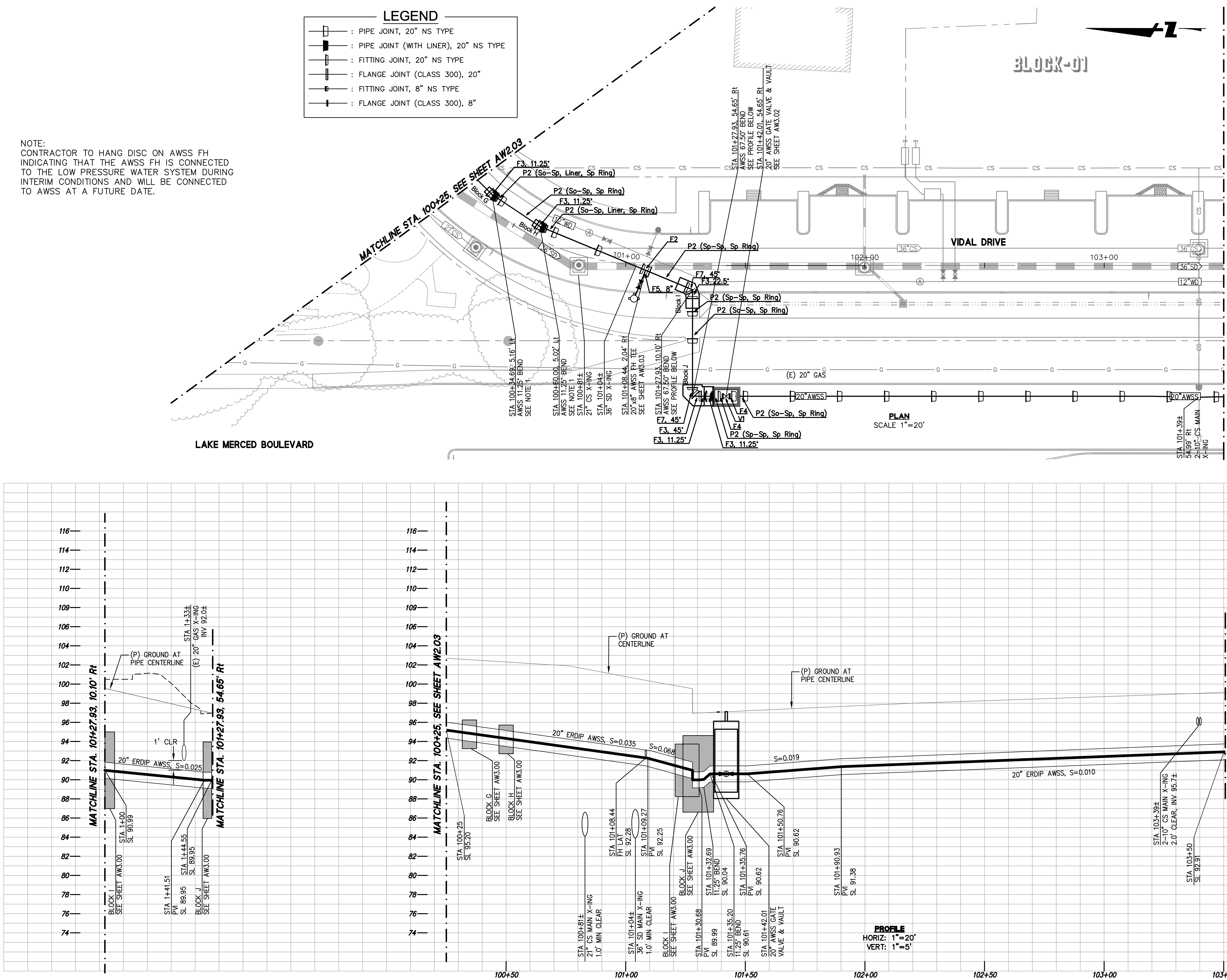
DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW202-A.dwg (AW2.03)
PLOT TIME: 5-1-2017 7:57 AM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

LEGEND

PIPE JOINT, 20" NS TYPE	
PIPE JOINT (WITH LINER), 20" NS TYPE	
FITTING JOINT, 20" NS TYPE	
FLANGE JOINT (CLASS 300), 20"	
FITTING JOINT, 8" NS TYPE	
FLANGE JOINT (CLASS 300), 8"	

NOTE:
CONTRACTOR TO HANG DISC ON AWSS FH INDICATING THAT THE AWSS FH IS CONNECTED TO THE LOW PRESSURE WATER SYSTEM DURING INTERIM CONDITIONS AND WILL BE CONNECTED TO AWSS AT A FUTURE DATE.



KEY MAP

GRAPHIC SCALE
20 0 20 40

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AWSS PLAN & PROFILE - VIDAL DRIVE

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

Drawing Number:
AW2.04

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW202-A.dwg (AW2.04)
PLOT TIME: 5-1-2017 7:57 AM PLOTTED BY: bum

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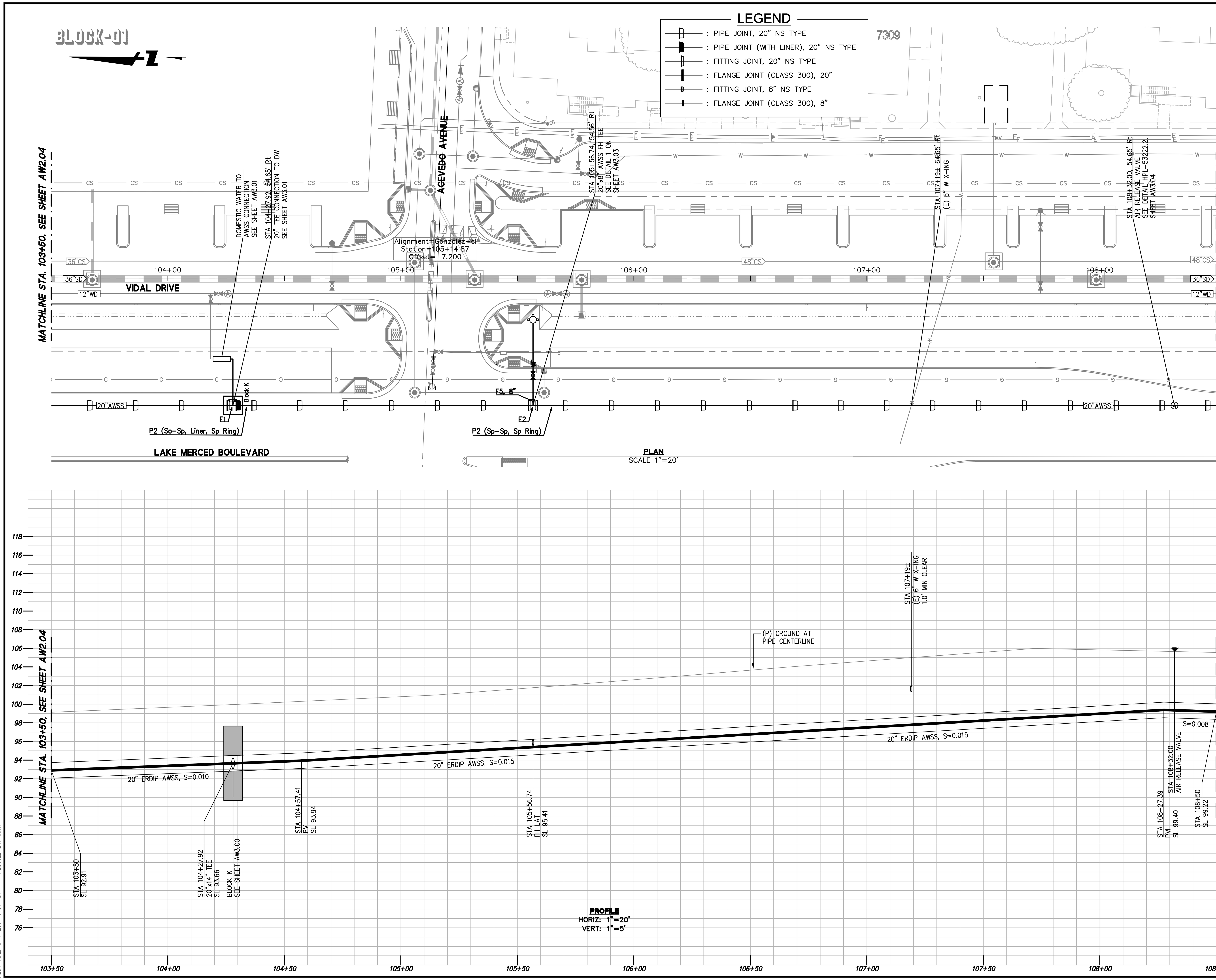

KEY MAP

GRAPHIC SCALE
20 0 20 40

NOTE:
CONTRACTOR TO HANG DISC ON AWSS FH INDICATING THAT THE AWSS FH IS CONNECTED TO THE LOW PRESSURE WATER SYSTEM DURING INTERIM CONDITIONS AND WILL BE CONNECTED TO AWSS AT A FUTURE DATE.

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PHASE 1A STREET IMPROVEMENT PLANS
AWSS PLAN & PROFILE - ACEVEDO/VIDAL DRIVE
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

Drawing Number:
AW2.05

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW202-A.dwg (AW2.05)
PLOT TIME: 5-1-2017 7:57 AM PLOTTED BY: bum

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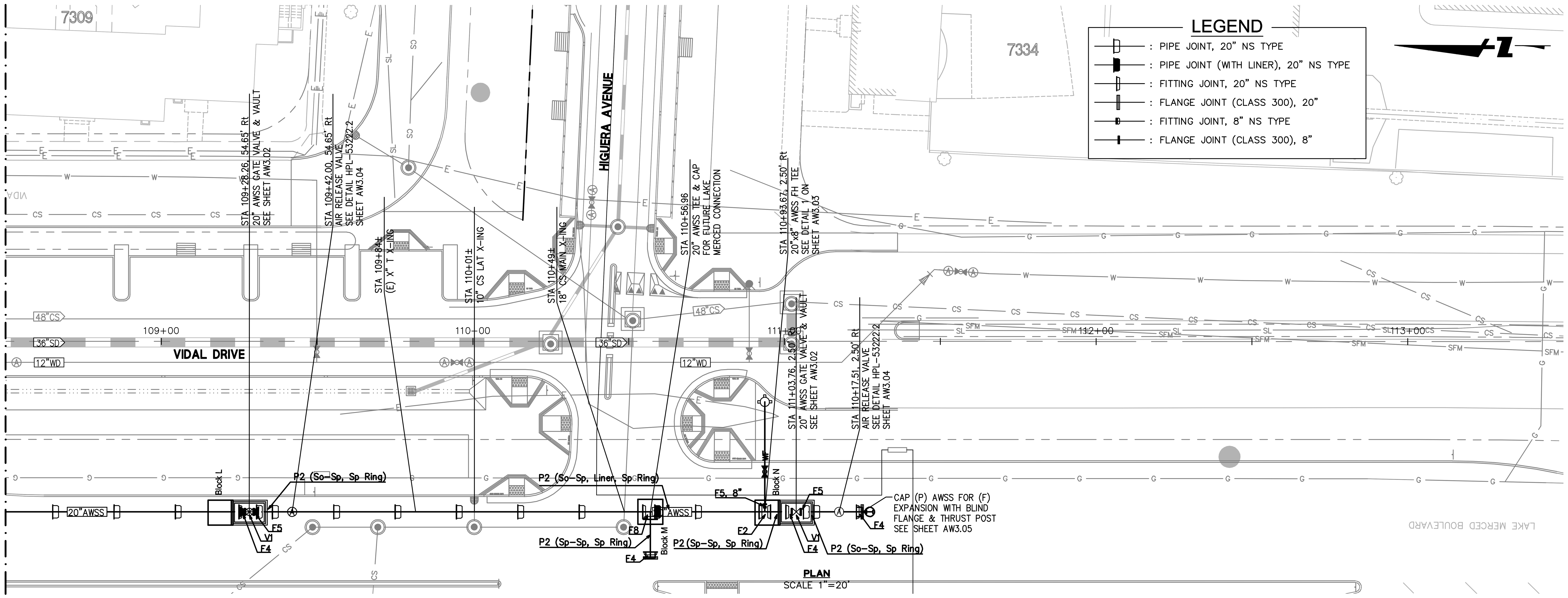
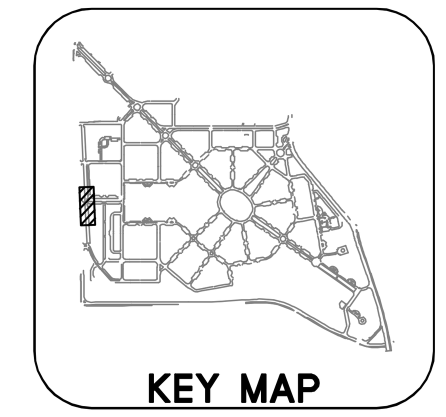


LEGEND

- PIPE JOINT, 20" NS TYPE
- PIPE JOINT (WITH LINER), 20" NS TYPE
- FITTING JOINT, 20" NS TYPE
- FLANGE JOINT (CLASS 300), 20"
- FITTING JOINT, 8" NS TYPE
- FLANGE JOINT (CLASS 300), 8"



GRAPHIC SCALE

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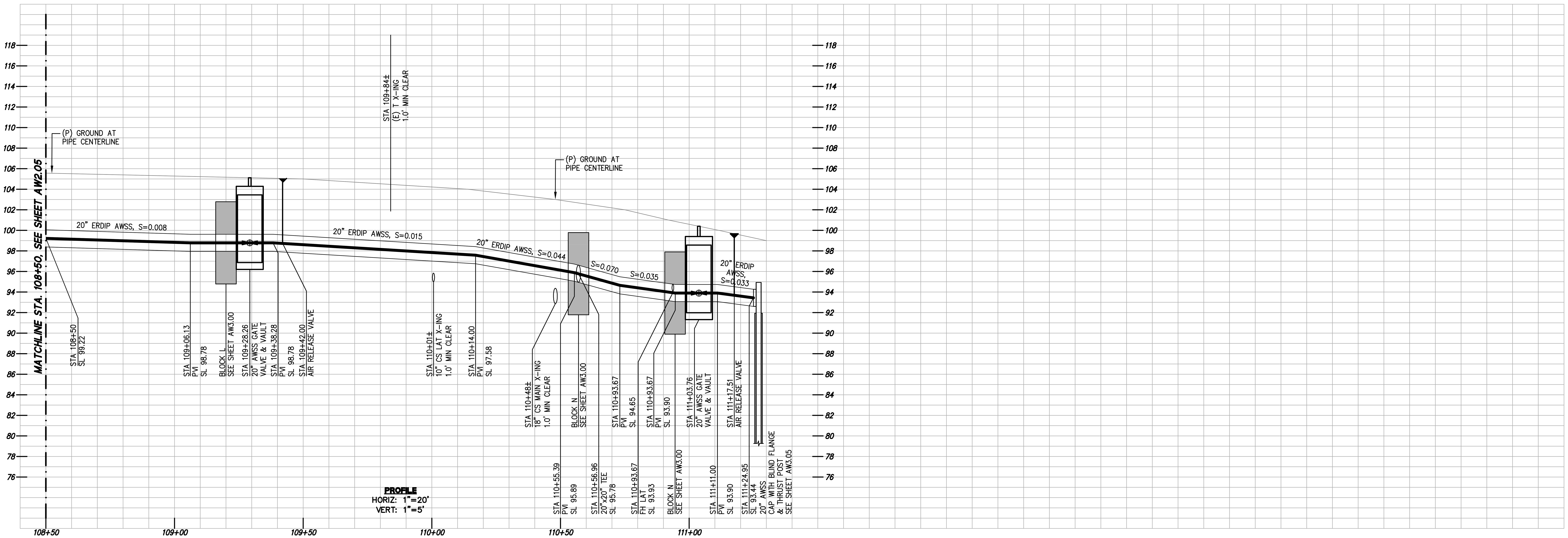
NOTE:
CONTRACTOR TO HANG DISC ON AWSS FH INDICATING THAT THE AWSS FH IS CONNECTED TO THE LOW PRESSURE WATER SYSTEM DURING INTERIM CONDITIONS AND WILL BE CONNECTED TO AWSS AT A FUTURE DATE.



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PHASE 1A STREET IMPROVEMENT PLANS
AWSS PLAN & PROFILE - HIGUERA/VIDAL DRIVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: AS SHOWN
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

Drawing Number:
AW2.06

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW202-A.dwg (AW2.06)
PLOT TIME: 5-1-2017 7:38 AM PLOTTED BY: bum

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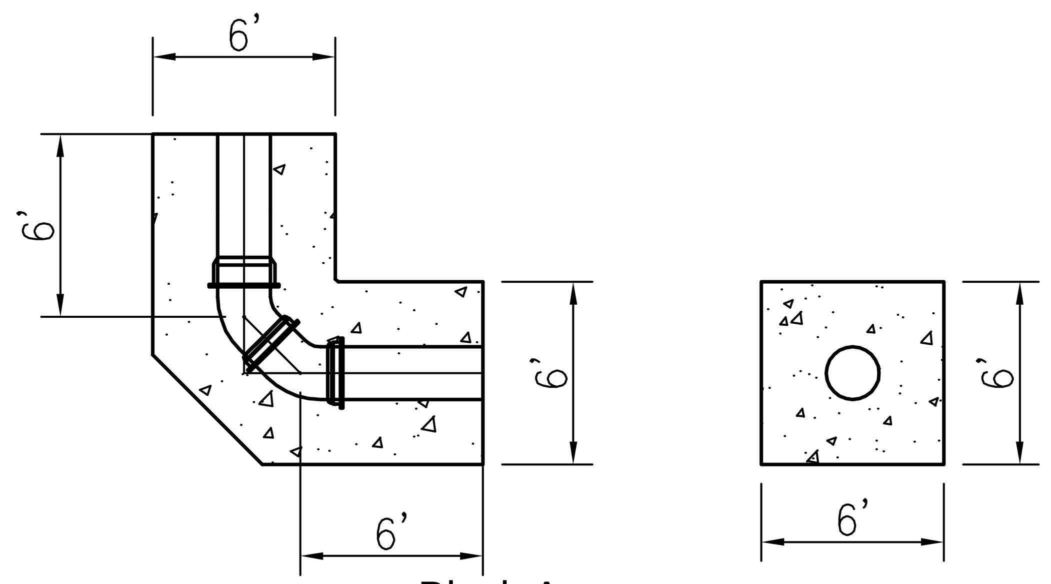

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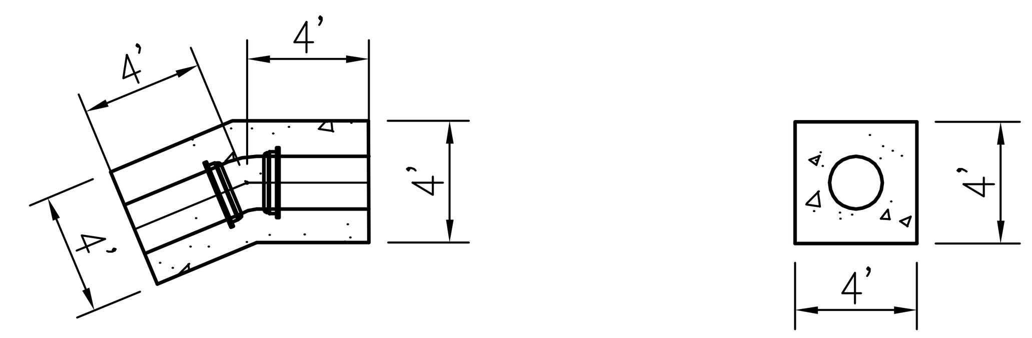

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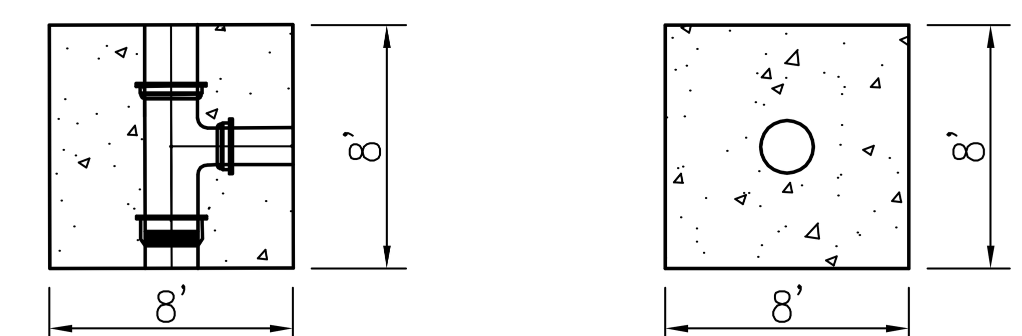

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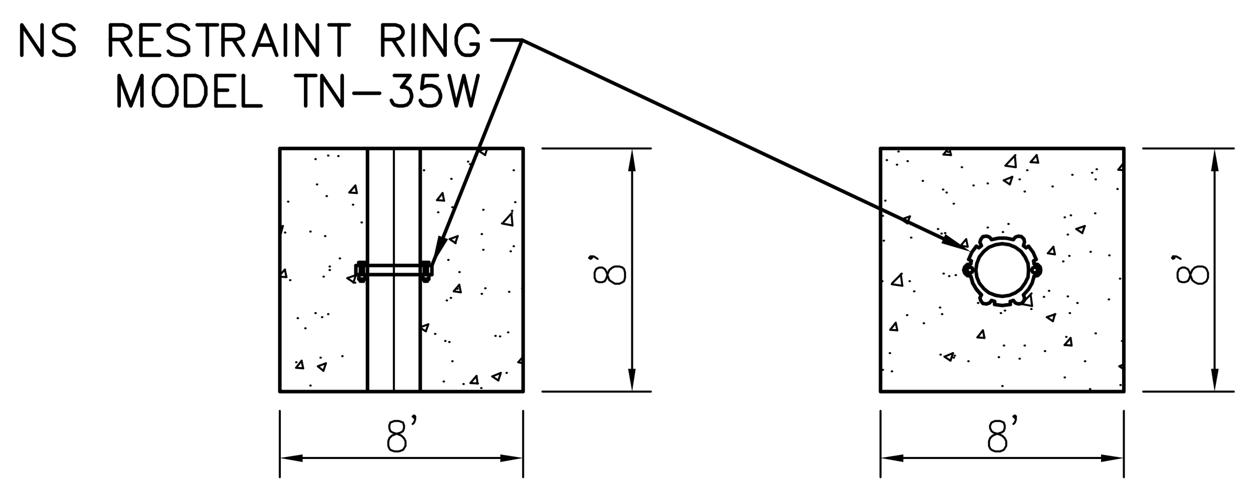

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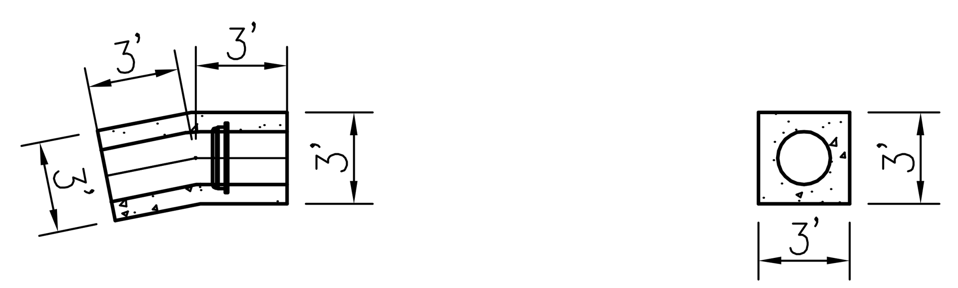

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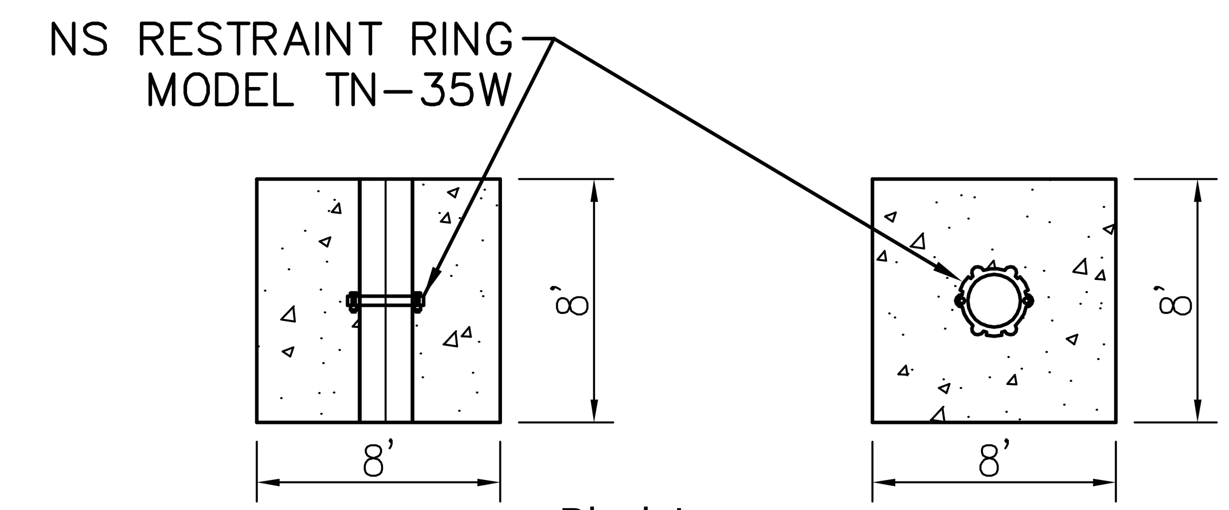

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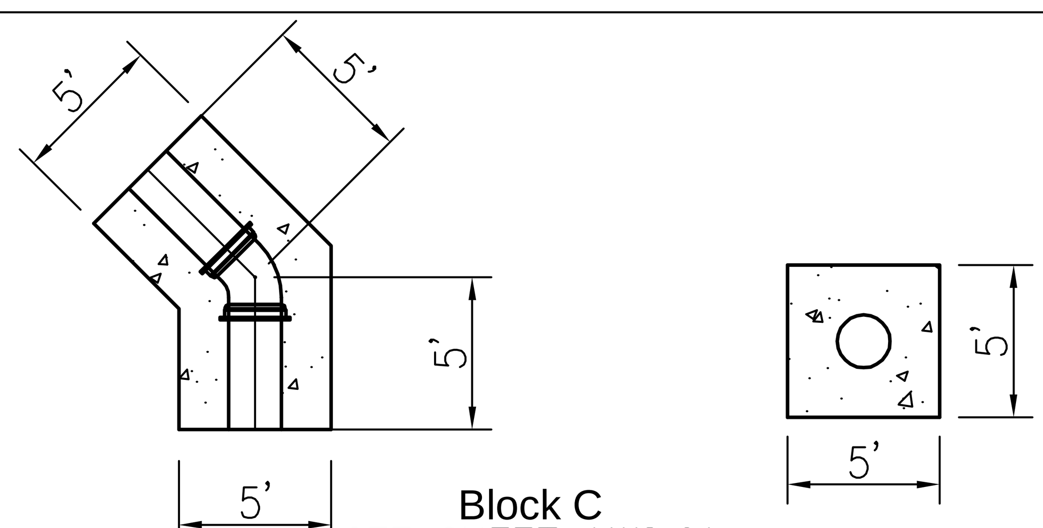

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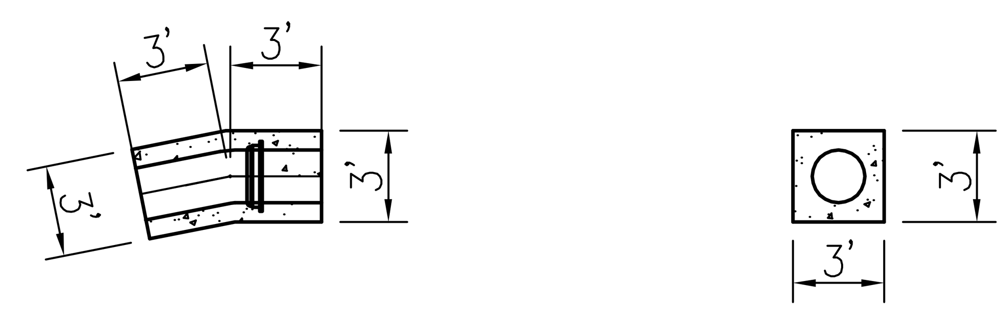

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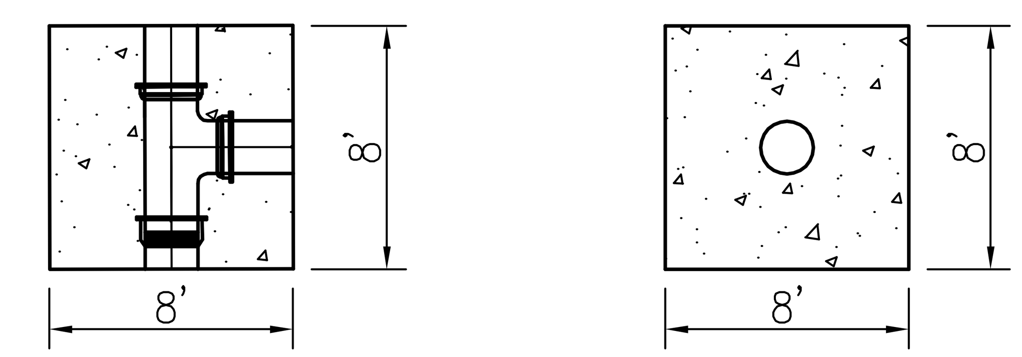

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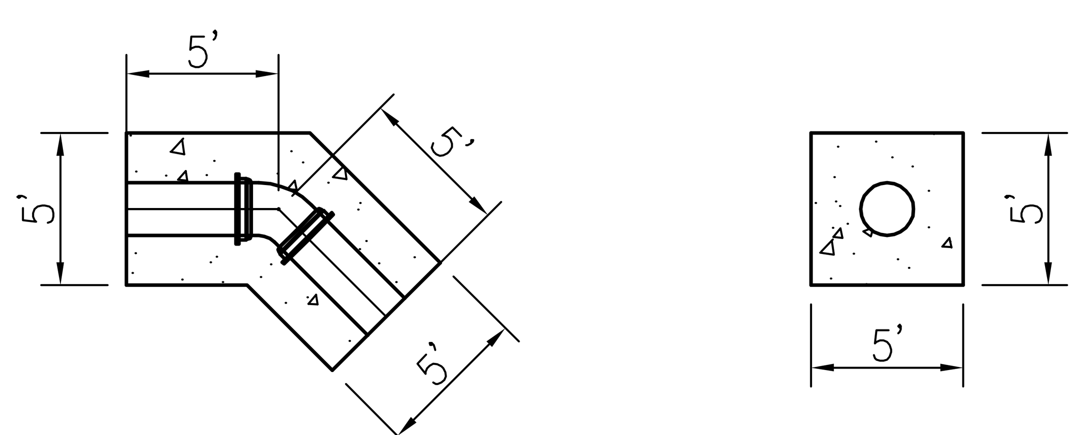
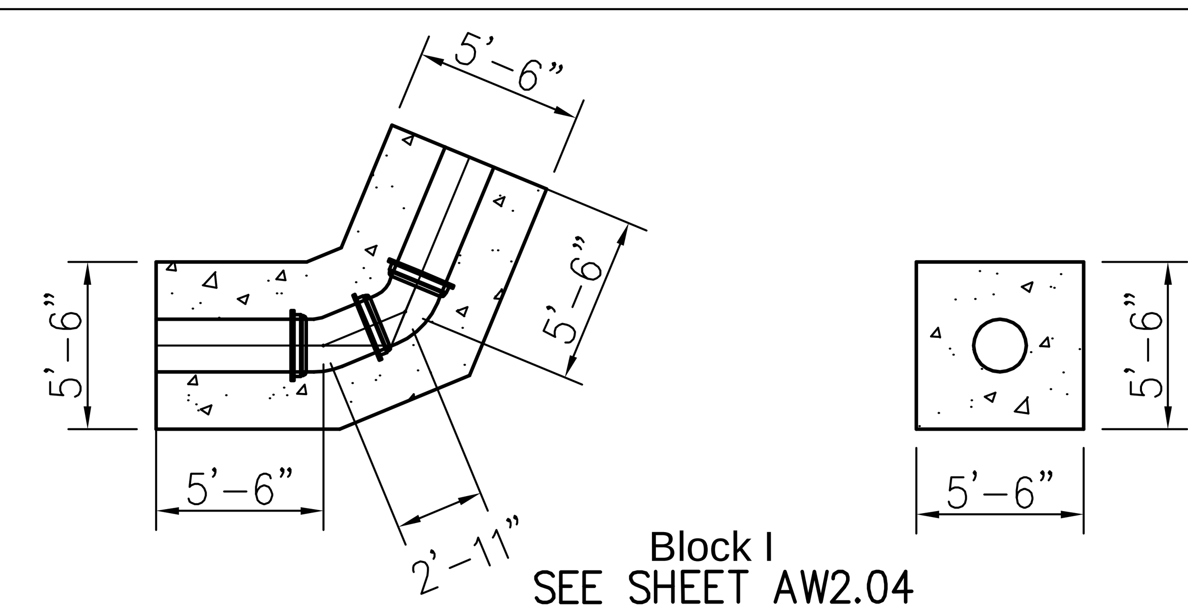
SEE SHEET AW2.06



Block D
SEE SHEET AW2.01 & AW2.02



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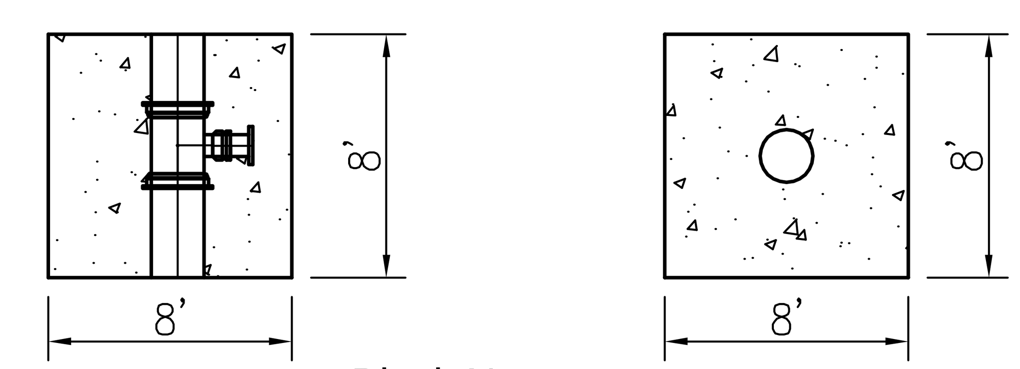
SEE SHEET AW2.04



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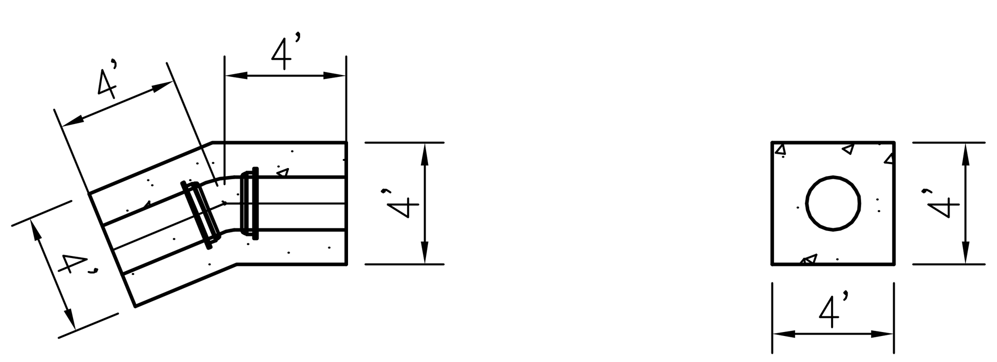

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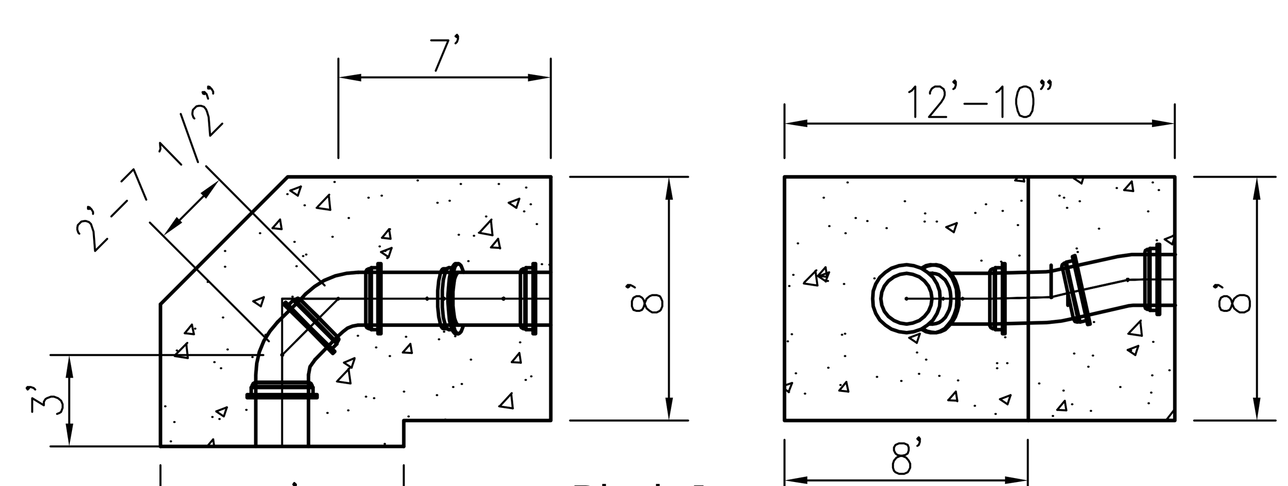
SEE SHEET AW2.03



Block J
SEE SHEET AW2.04

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PHASE 1A STREET IMPROVEMENT PLANS
THRUST BLOCK DETAILS
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

NOT FOR CONSTRUCTION

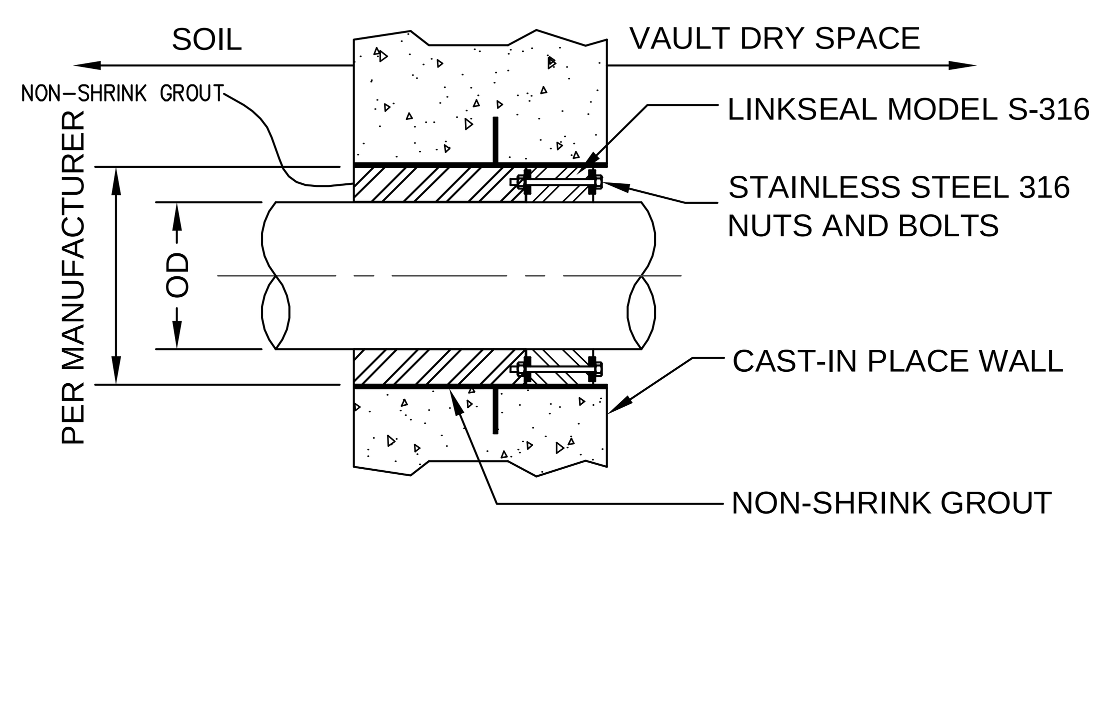
No.	Revisions

Date: 05/01/17
Scale: N.T.S
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

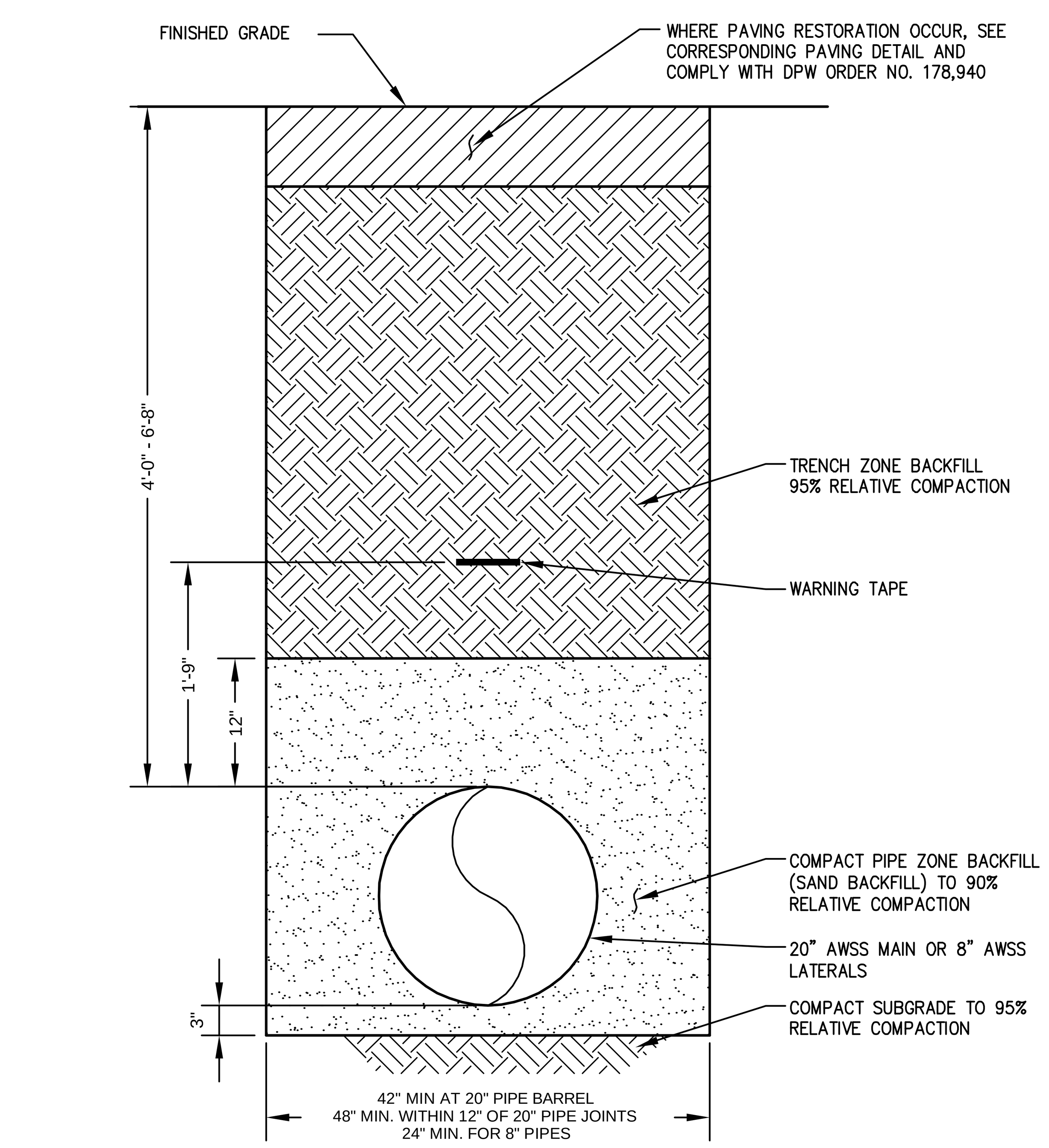
Drawing Number:
AW3.00

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW300-Details.dwg (AWSS-00)
PLOT TIME: 5-1-2017 8:00 AM PLOTTED BY: bum

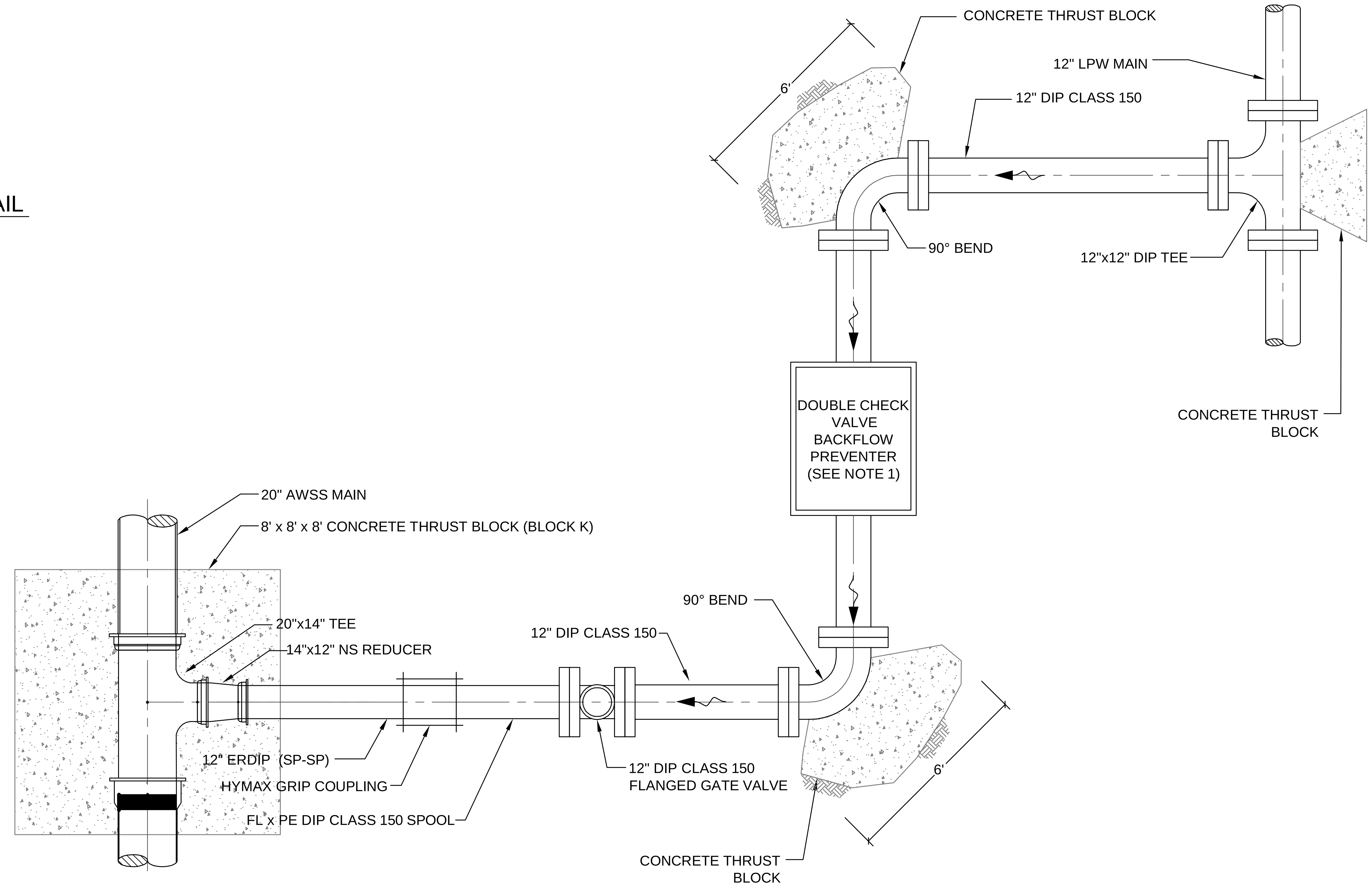
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



TYPICAL PIPE PENETRATIONS USING LINKSEALS DETAIL
SCALE: NTS



TYPICAL AWSS TRENCH DETAIL
SCALE: NTS



NOTES:
1. SEE LOW PRESSURE WATER SYSTEM PLANS FOR DOUBLE CHECK VALVE AND VAULT SPECIFICATIONS.

DOMESTIC WATER TO AWSS CONNECTION DETAIL
SCALE: NTS

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PHASE 1A STREET IMPROVEMENT PLANS
AWSS DETAILS 1
SAN FRANCISCO   SAN FRANCISCO COUNTY   CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
YOUSRA TIDEDE
No. C 87412
Exp. 9/30/18
CIVIL
STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

No.	Revisions

Date: 05/01/17
Scale: N.T.S
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

Drawing Number:
AW3.01

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW300-Details.dwg (AWSS-01)
PLOT TIME: 5-1-2017 8:00 AM PLOTTED BY: bum

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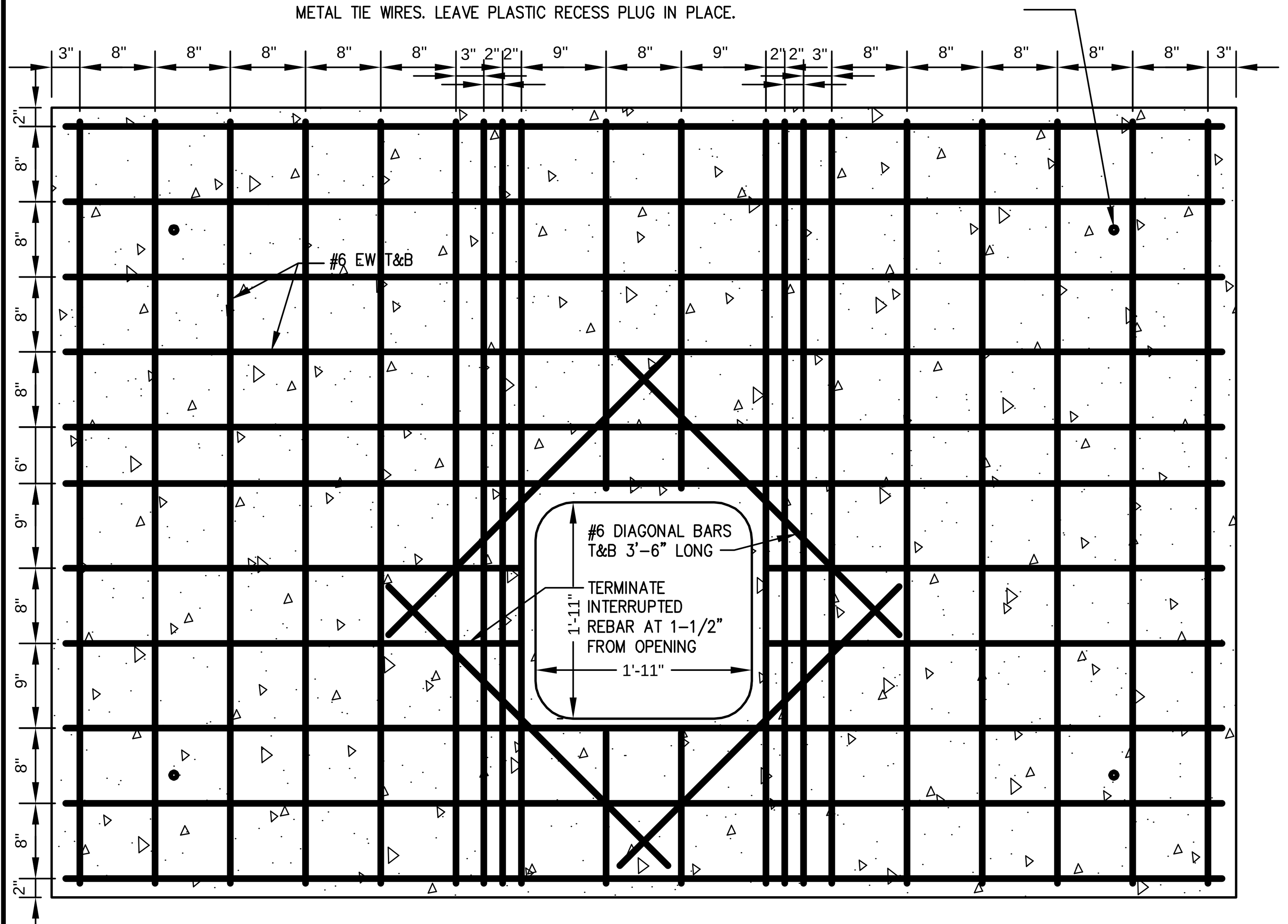
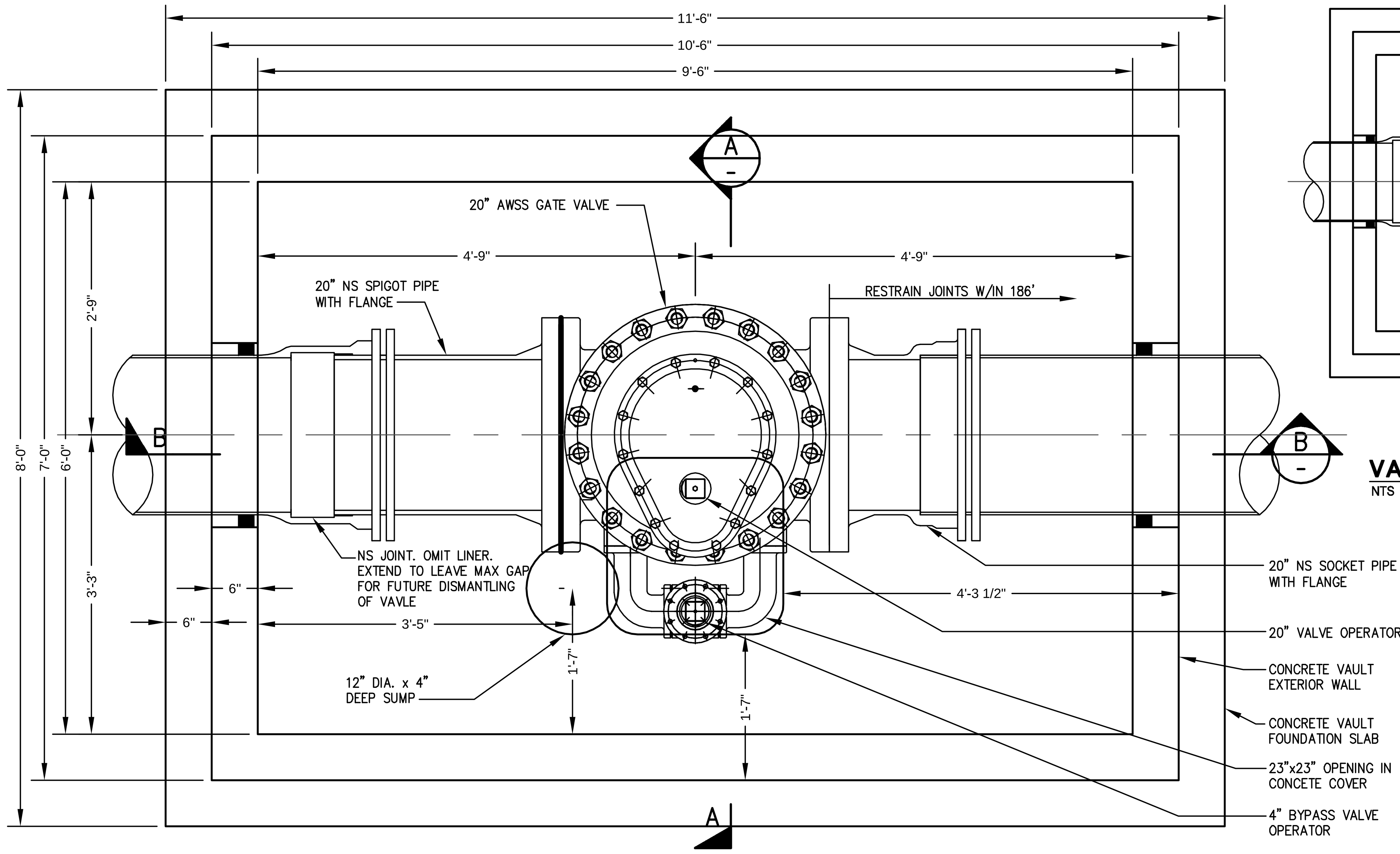
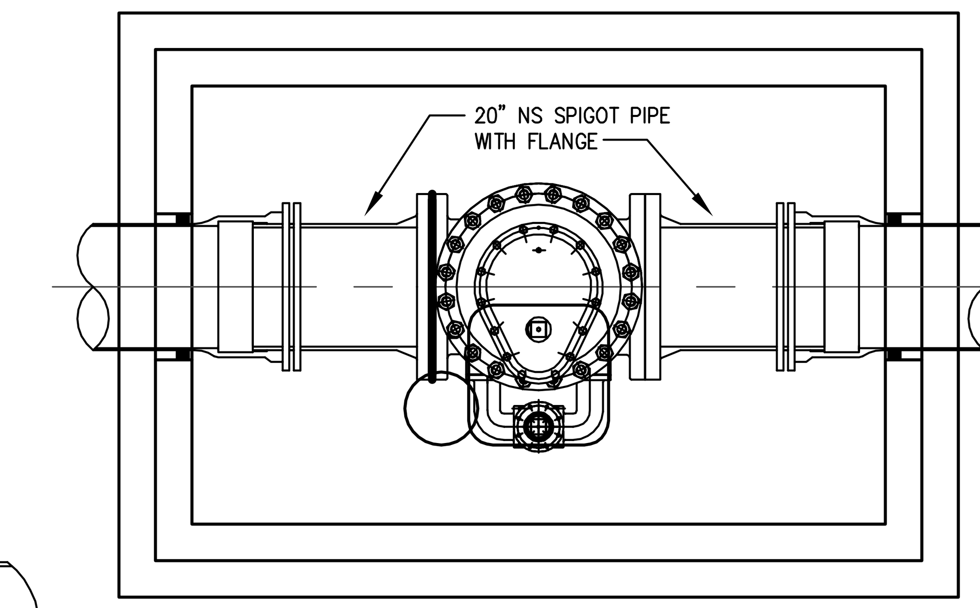


ROOF COVER REINFORCING PLAN
1"=1'-0"

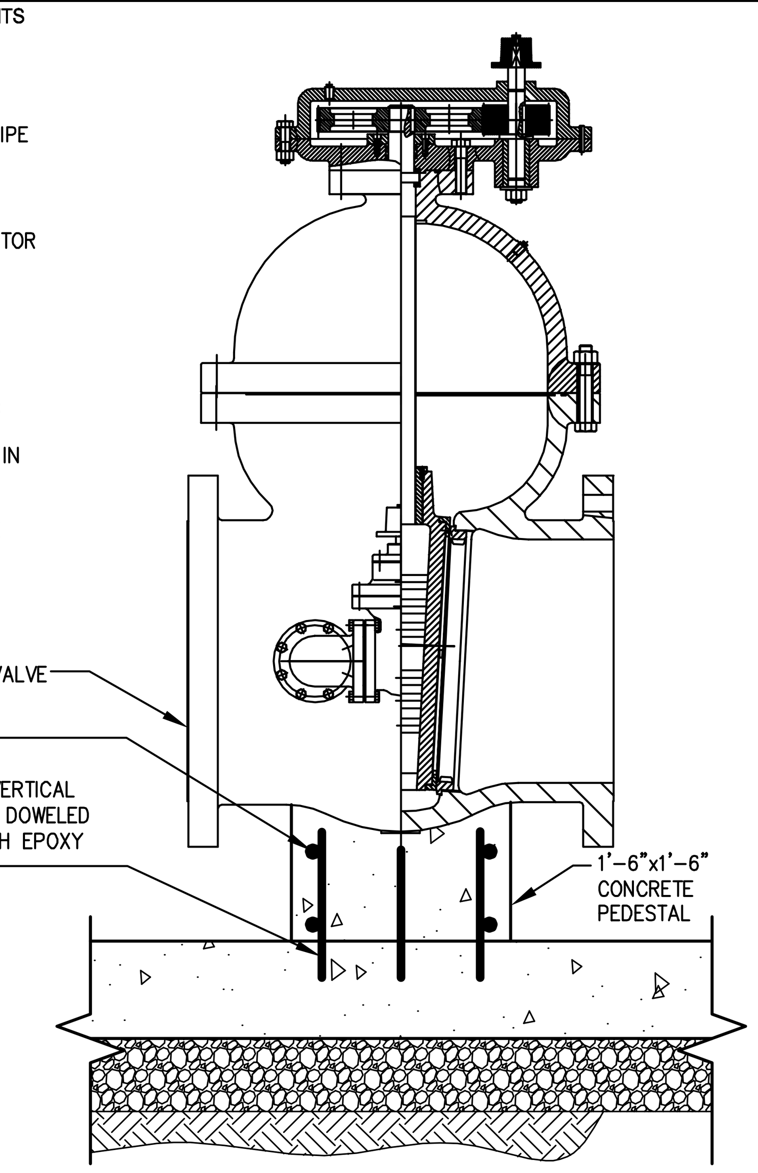


VALVE IN VAULT LAYOUT OPTION A PLAN
1"=1'-0"

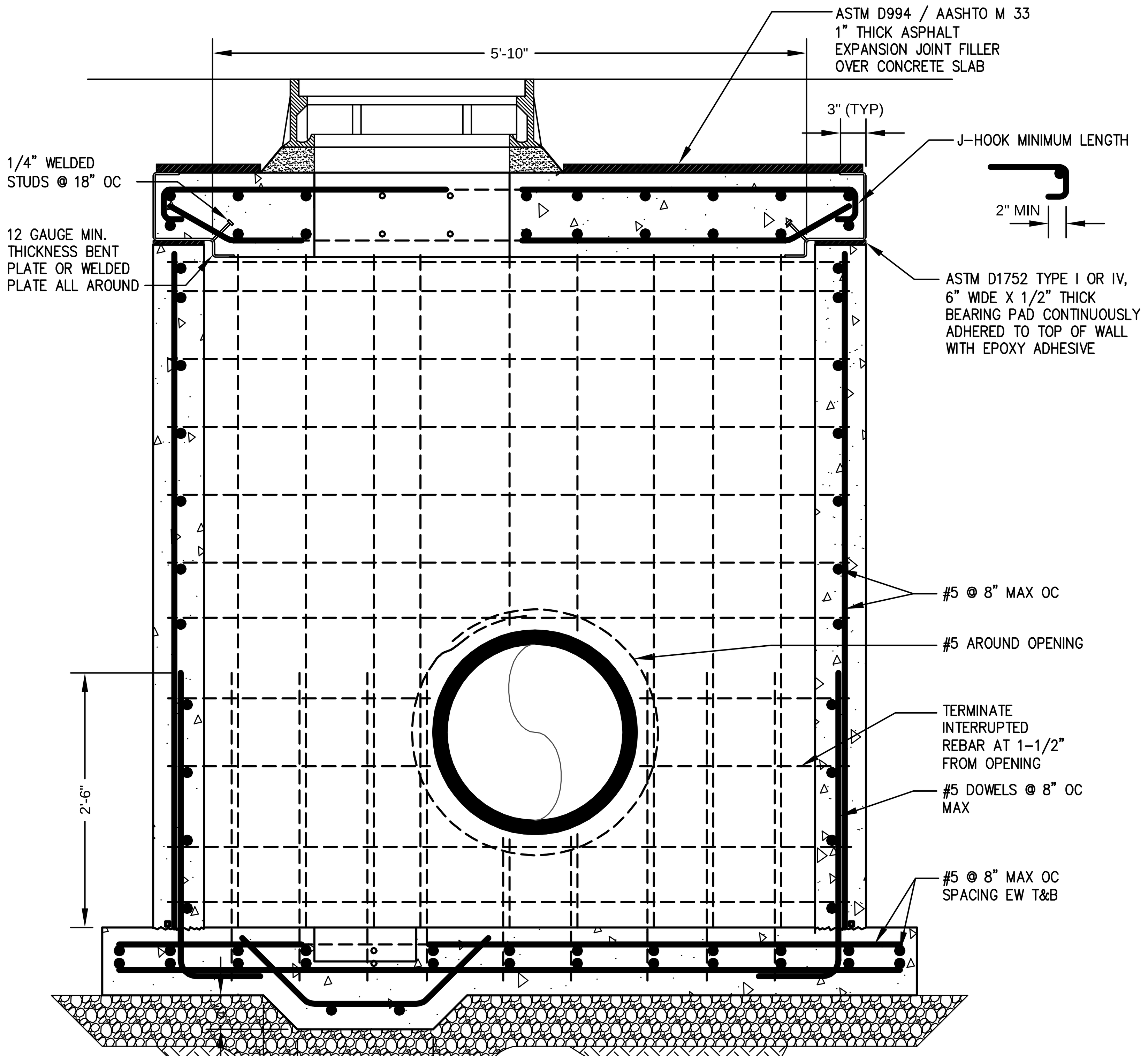


NOTE:
THIS ALTERNATIVE OPTION MUST BE APPROVED BY THE CITY. ONE SIDE SHALL HAVE LINER OMITTED. JOINT RESTRAINT CONSIDERATION IS REQUIRED. SEE OPTION A PLAN FOR CALLOUTS NOT SHOWN.

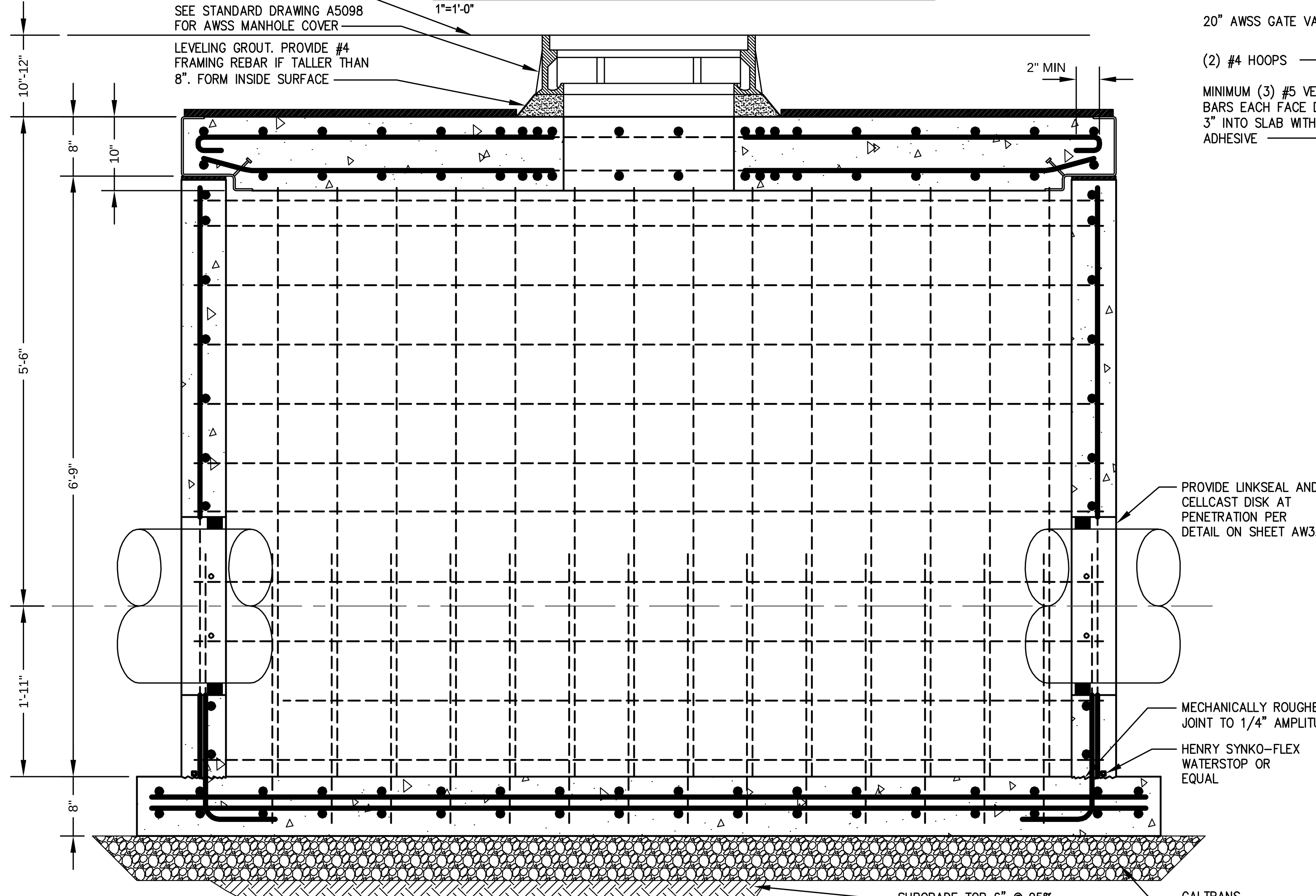
VALVE IN VAULT LAYOUT OPTION B PLAN
NTS



VALVE SUPPORT DETAIL
1"=1'-0"



SECTION A
1"=1'-0"



SECTION B
1"=1'-0"

NOTES:
1. CONTRACTOR TO VERIFY EXACT DIMENSIONS OF VALVES, WHETHER SUPPLIED BY OWNER OR NOT, PRIOR TO FABRICATING VAULTS.
2. CONTRACTOR TO USE CAST-IN-PLACE VAULTS. PRE-CAST VAULTS WILL NOT BE ALLOWED.

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AWSS DETAILS 2

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: NONE
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

Drawing Number:
AW3.02

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW300-Details.dwg (AWSS-02)
PLOT TIME: 5-1-2017 8:00 AM PLOTTED BY: bum

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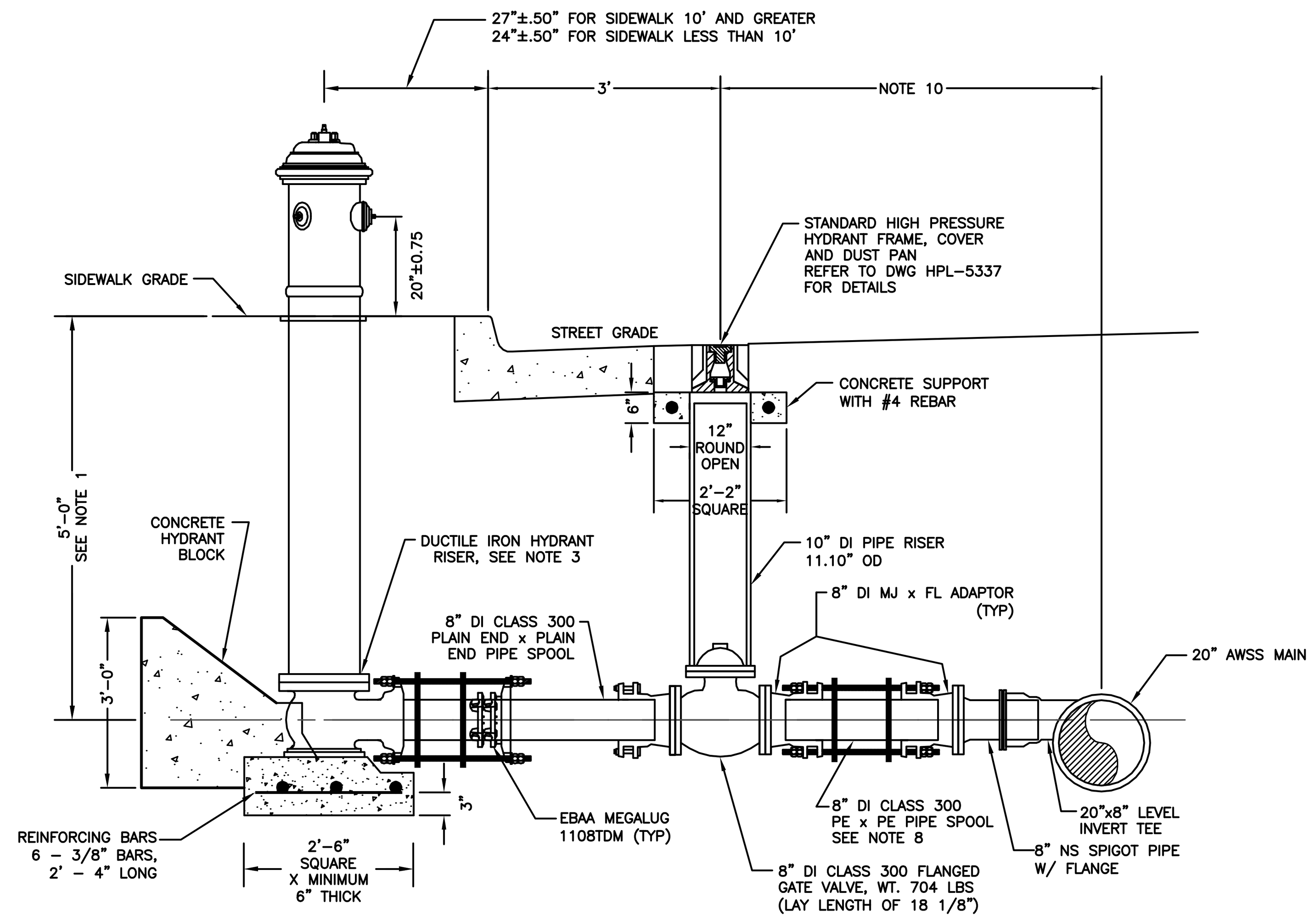
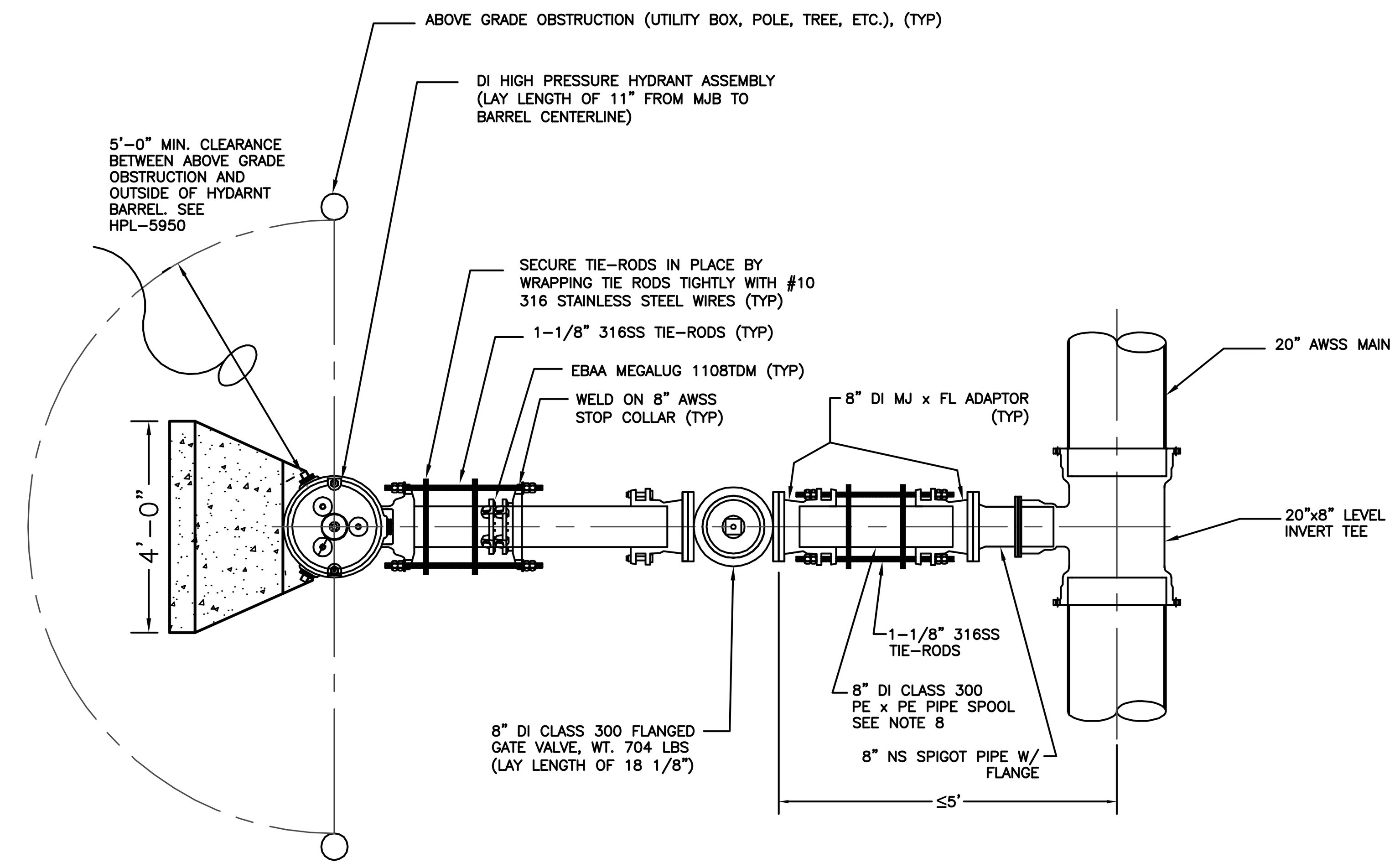
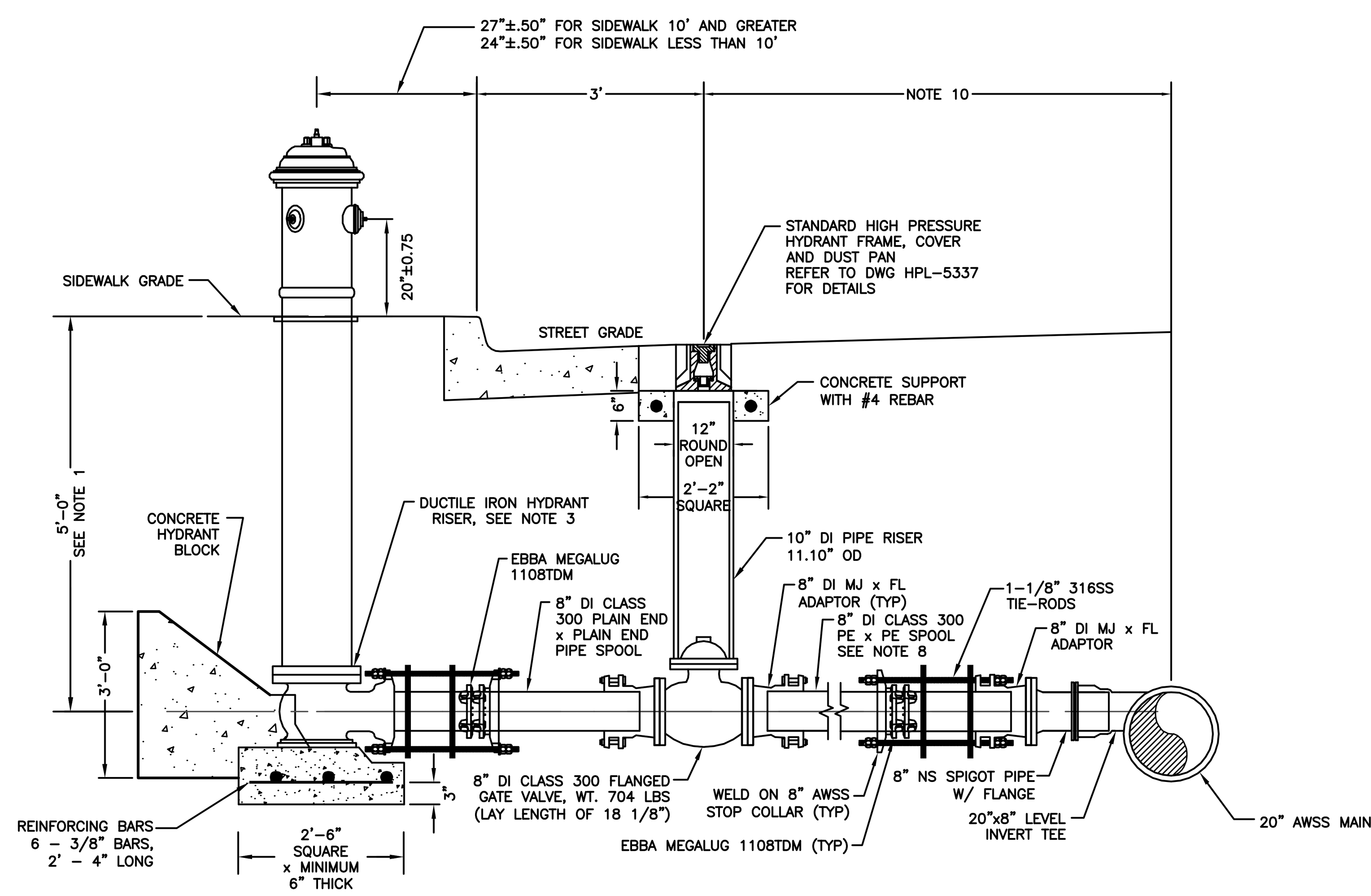
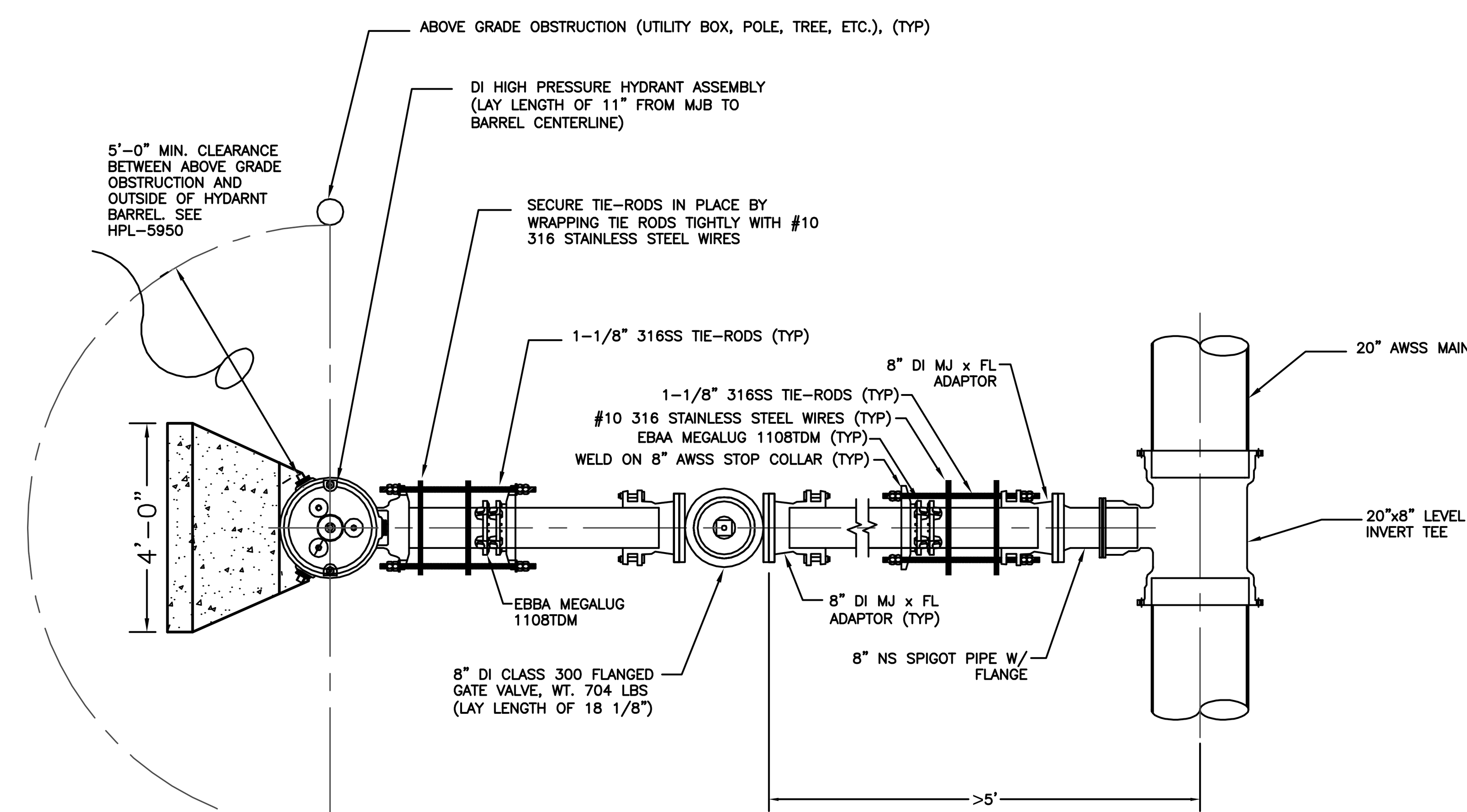




DETAIL A. DISTANCE FROM VALVE TO CENTER OF MAIN ≤ 5'





DETAIL B. DISTANCE FROM VALVE TO CENTER OF MAIN > 5'

NOTES:

1. TYPICAL DEPTH OF HYDRANT LATERAL PIPING IS 5'-0" FROM FINISHED STREET GRADE TO CENTERLINE OF PIPE. WHERE PIPE DEPTH IS GREATER, INSTALL DUCTILE IRON HYDRANT RISER(S) PER NOTE 3.
2. CONCRETE HYDRANT BLOCK SHALL BE PLACED/CURED PRIOR TO THE INSTALLATION OF THE HYDRANT ASSEMBLY AND THE PLACING OF THE CONCRETE THRUST BLOCK. CONCRETE HYDRANT BLOCK AND THRUST BLOCKS SHALL BE PLACED AGAINST SOLID/UNDISTURBED SOIL.
3. HYDRANT RISER(S) (MAXIMUM OF 24" AND THREE RISERS TOTAL) TO BE INSTALLED AS SHOWN ON THE PLAN/ELEVATION DWGS OR AS DIRECTED BY THE OWNER. CONTRACTOR TO INSTALL RISERS WHERE REQUIRED. REFER TO DWGS HPL-39,417A FOR HYDRANT RISER FABRICATION DETAIL.
4. MAXIMUM LENGTH OF TIE RODS IS 5'-5". REFER TO DWG 49,102 FOR STAINLESS STEEL TIE RODS, NUTS, WASHERS AND DWG HPL-5646.7 FOR STRONG BACKS.
5. ALL FLANGE/BOLTS/NUTS/WASHERS TO BE MANUFACTURED FROM TYPE 316 STAINLESS STEEL. FOR CLARITY NOT ALL TIE RODS, BOLTS, NUTS, WASHERS ARE SHOWN ON THIS DWG.
6. THE MINIMUM DISTANCE BETWEEN THE CENTERLINES OF HYDRANT TEE AND HYDRANT BARREL IS 82".
7. REFER TO SPECIFICATION SECTION 332200 IN THE SPECIAL PROVISIONS FOR ADDITIONAL PRODUCT AND INSTALLATION INFORMATION, INCULDING TRENCHING, SHORING, BACKFILLING AND TESTING OF THE INSTALLED HYDRANT LATERAL.
8. WHERE VERTICAL OFFSET IN THE HYDRANT LATERAL IS REQUIRED, PROVIDE TWO 45° MECHANICAL JOINTED ELBOWS.
9. FLANGES ON FITTINGS SHALL BE CAST. THREADED FLANGES ARE NOT ACCEPTABLE.
10. IF DISTANCE FROM VALVE TO CENTER OF MAIN IS MORE THAN 22', PROVIDE TWO GATE VALVES, ONE AT 3' FROM FACE OF CURB AND ONE CONNECTED TO THE FLANGE OF THE 8" NS SPIGOT PIPE W/ FLANGE ADAPTER.

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PHASE 1A STREET IMPROVEMENT PLANS
AWSS DETAILS 3
SAN FRANCISCO COUNTY CALIFORNIA
SAN FRANCISCO

No.	Revisions

Date: 05/01/17
Scale: NONE
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

Drawing Number:
AW3.03

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW300-Details.dwg (AWSS-03)
PLOT TIME: 5-1-2017 8:00 AM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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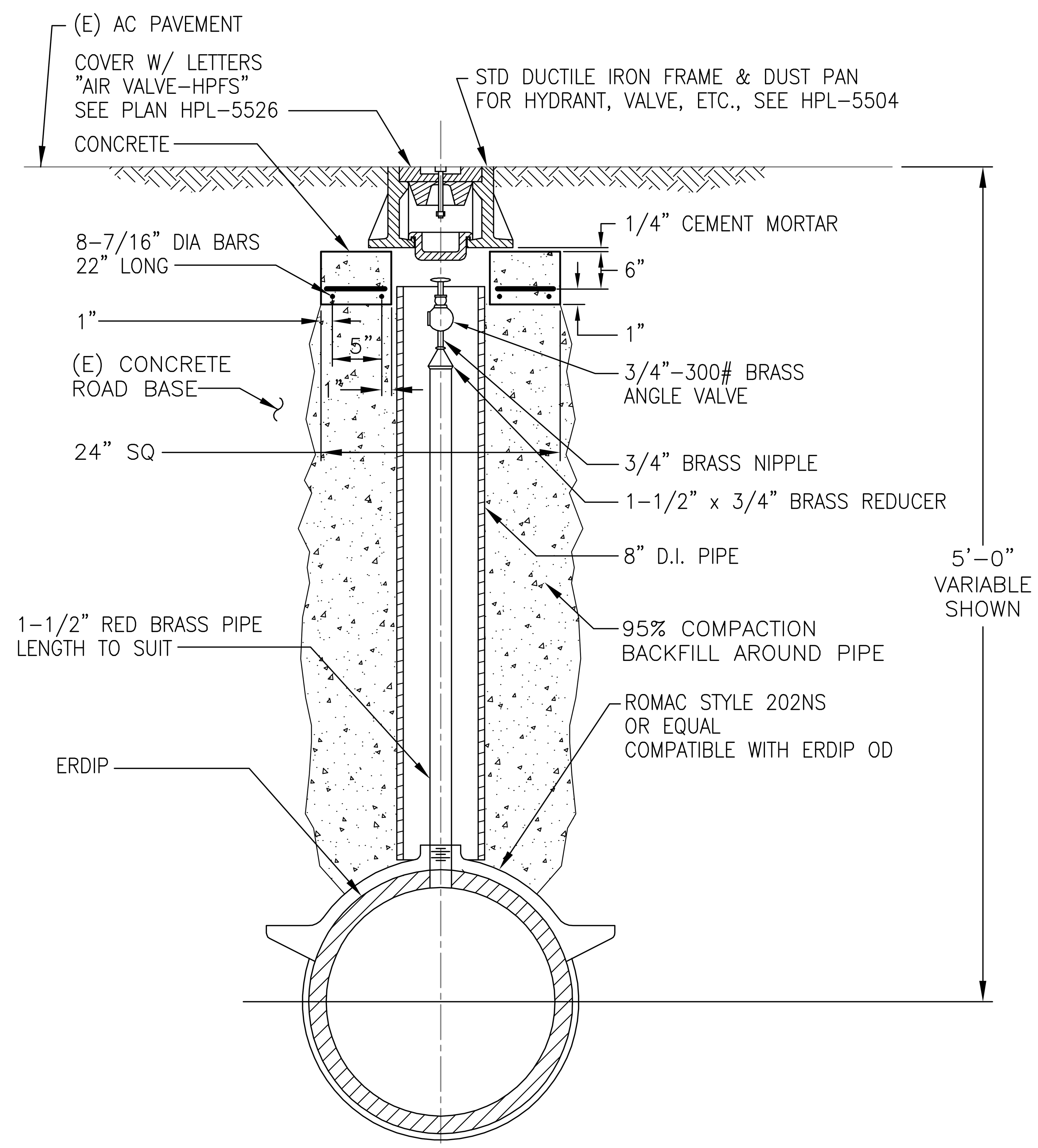


D.I. = DUCTILE IRON

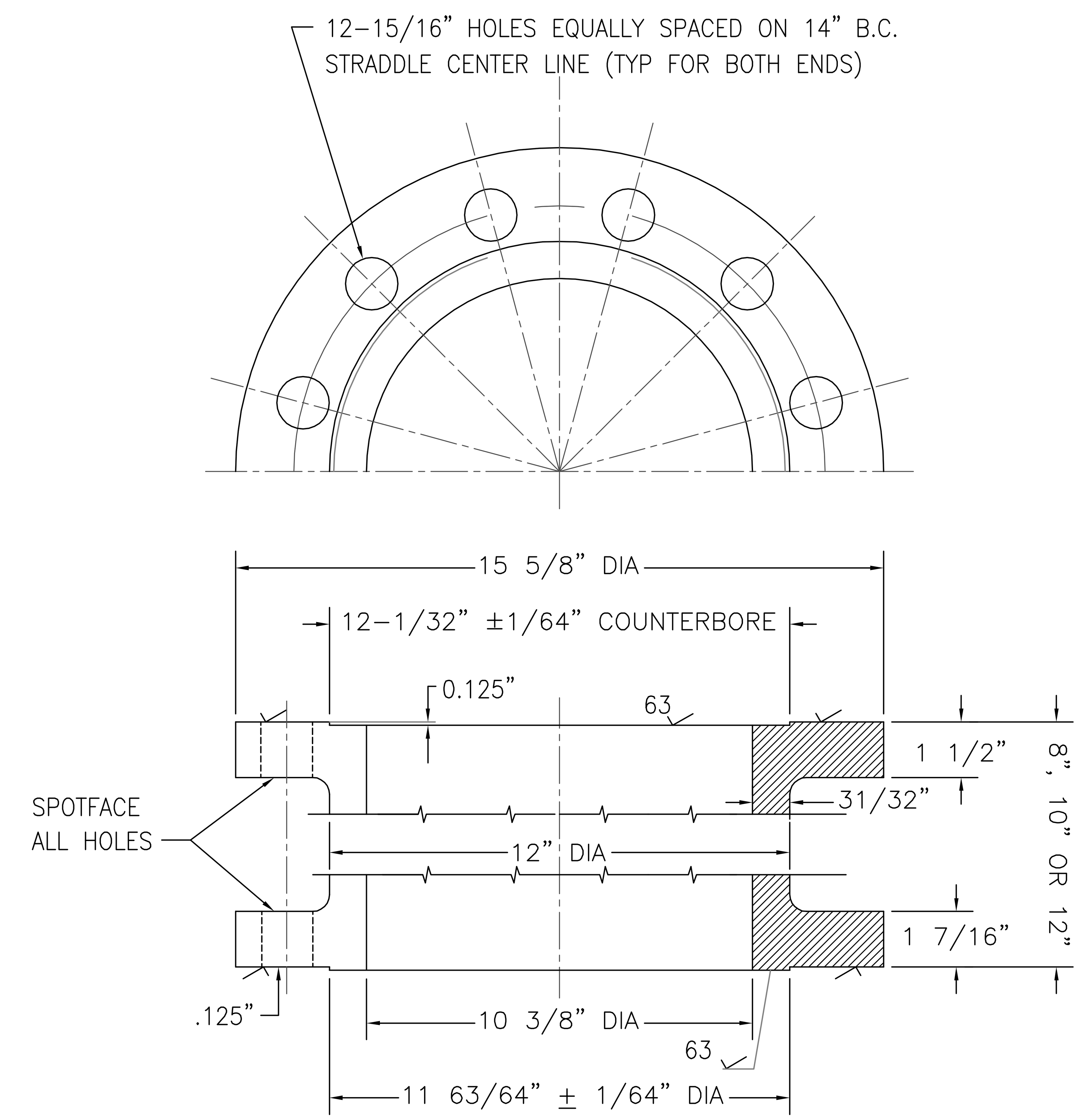
NOTE: PROVIDE (2) ADDITIONAL AIR VALVE ASSEMBLIES TO BE INSTALLED AT LOCATIONS TO BE DETERMINED BY THE CITY IN ADDITION TO THE NUMBER OF AIR VALVES SHOWN ON PLAN.

SCALE: NONE

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS-BUREAU OF ENGINEERING

AWSS STANDARD DETAIL - AIR VALVE ASSEMBLY

BY:	APP'D ____ MANAGER, GES DIVISION	DATE:
		REVISION: 3
CH'D:	APP'D ____ CHIEF, BUREAU OF ENGINEERING	DETAIL: HPL-5322.2



TOLERANCES (UNLESS OTHERWISE NOTED)

DECIMALS: ± 0.003"
FRACTIONS ± 1/32"

FINISH SYMBOLS
250 UNLESS OTHERWISE INDICATED

SCALE: NONE

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS-BUREAU OF ENGINEERING

DUCTILE IRON RISER FOR HIGH PRESSURE HYDRANT

BY:	APP'D ____ MANAGER, GES DIVISION	DATE:
		REVISION: 0
CH'D:	APP'D ____ CHIEF, BUREAU OF ENGINEERING	DETAIL: HPL-39,417A

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PHASE 1A STREET IMPROVEMENT PLANS
AWSS STANDARD DRAWINGS 1
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

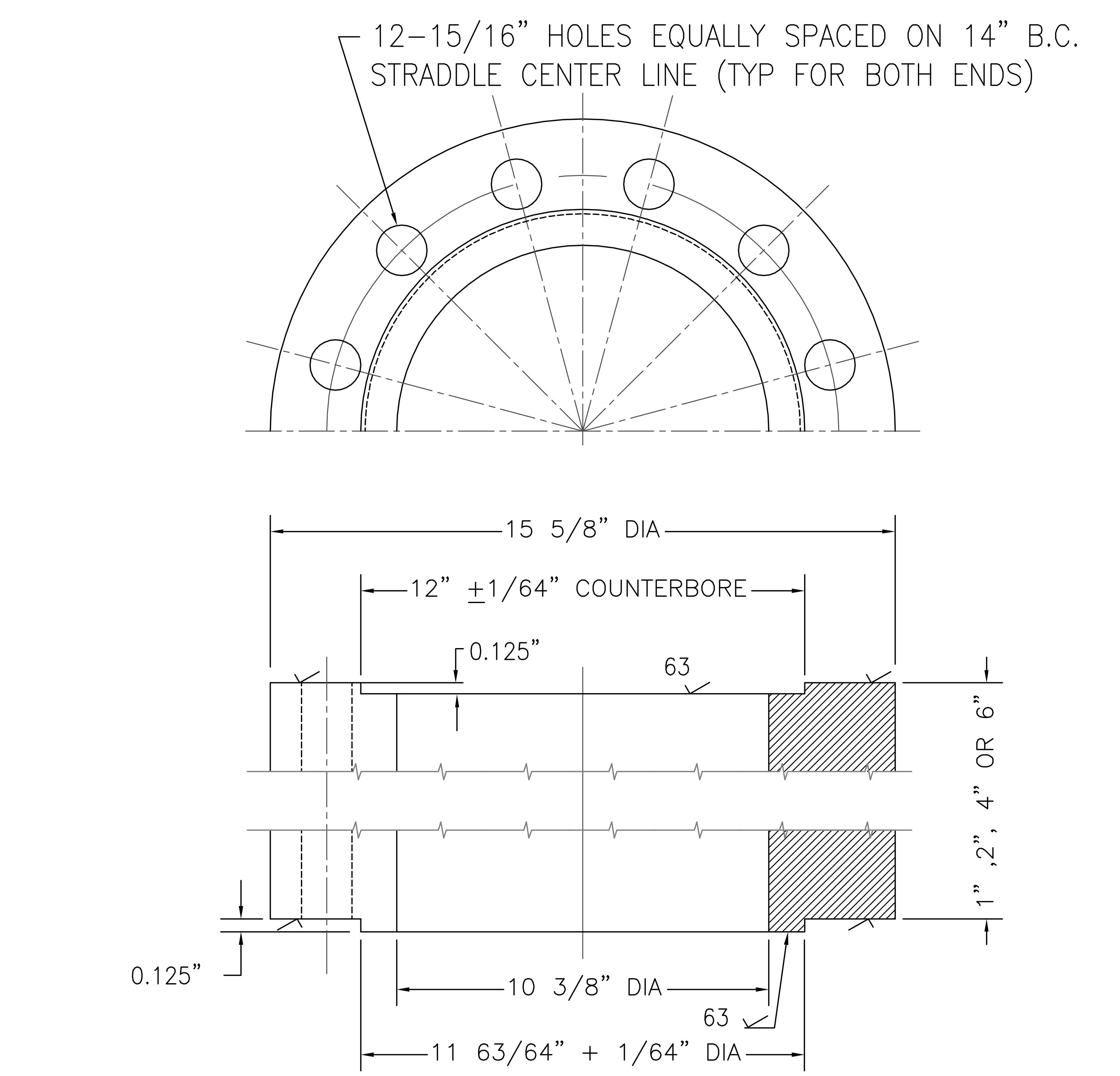
Date: 05/01/17
Scale: NONE
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

No. | Revisions

Drawing Number:
AW3.04

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW300-Details.dwg (AWSS-04)
PLOT TIME: 5-1-2017 8:00 AM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17



TOLERANCES (UNLESS OTHERWISE NOTED)

DECIMALS: ± 0.003"

FRACTIONS: ± 1/32"

FINISH SYMBOLS

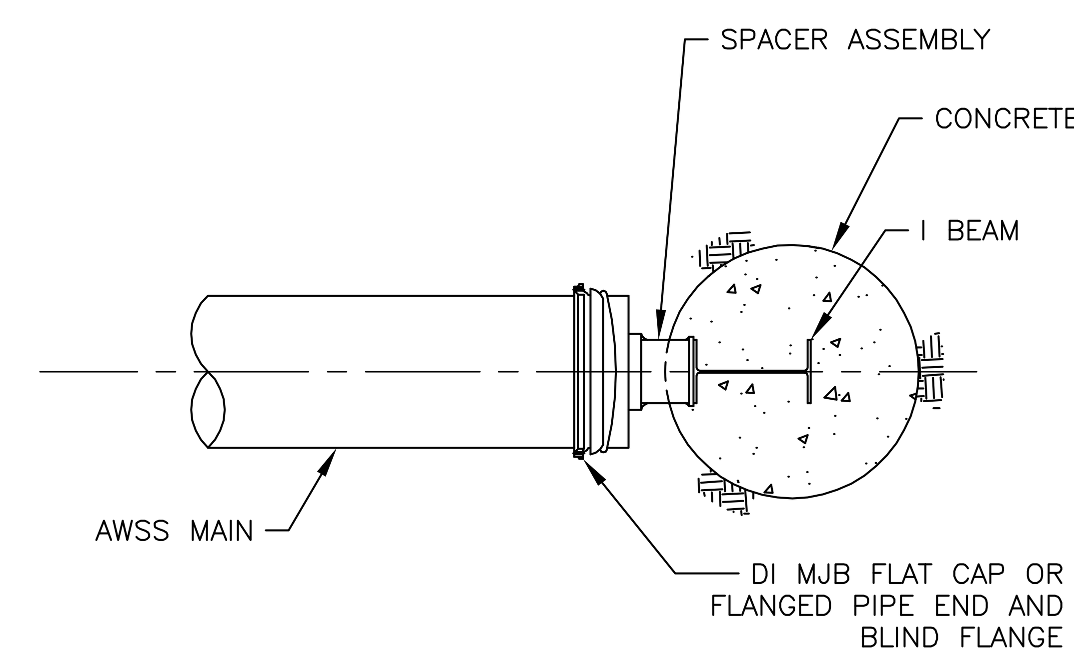
250 UNLESS OTHERWISE INDICATED

NOTE: HYDRANT INSTALLATION REQUIRING HYDRANT RISERS SHALL HAVE THE MINIMUM NUMBER OF RISERS INSTALLED. IN NO CASE SHALL THERE BE MORE THAN THREE HYDRANT RISERS INSTALLED.

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS–BUREAU OF ENGINEERING

DUCTILE IRON RISER FOR HIGH PRESSURE HYDRANT

BY:	APP'D	MANAGER, GES DIVISION	DATE: / REVISION: 0
CH'D:	APP'D	CHIEF, BUREAU OF ENGINEERING	DETAIL: HPL–39,417.B

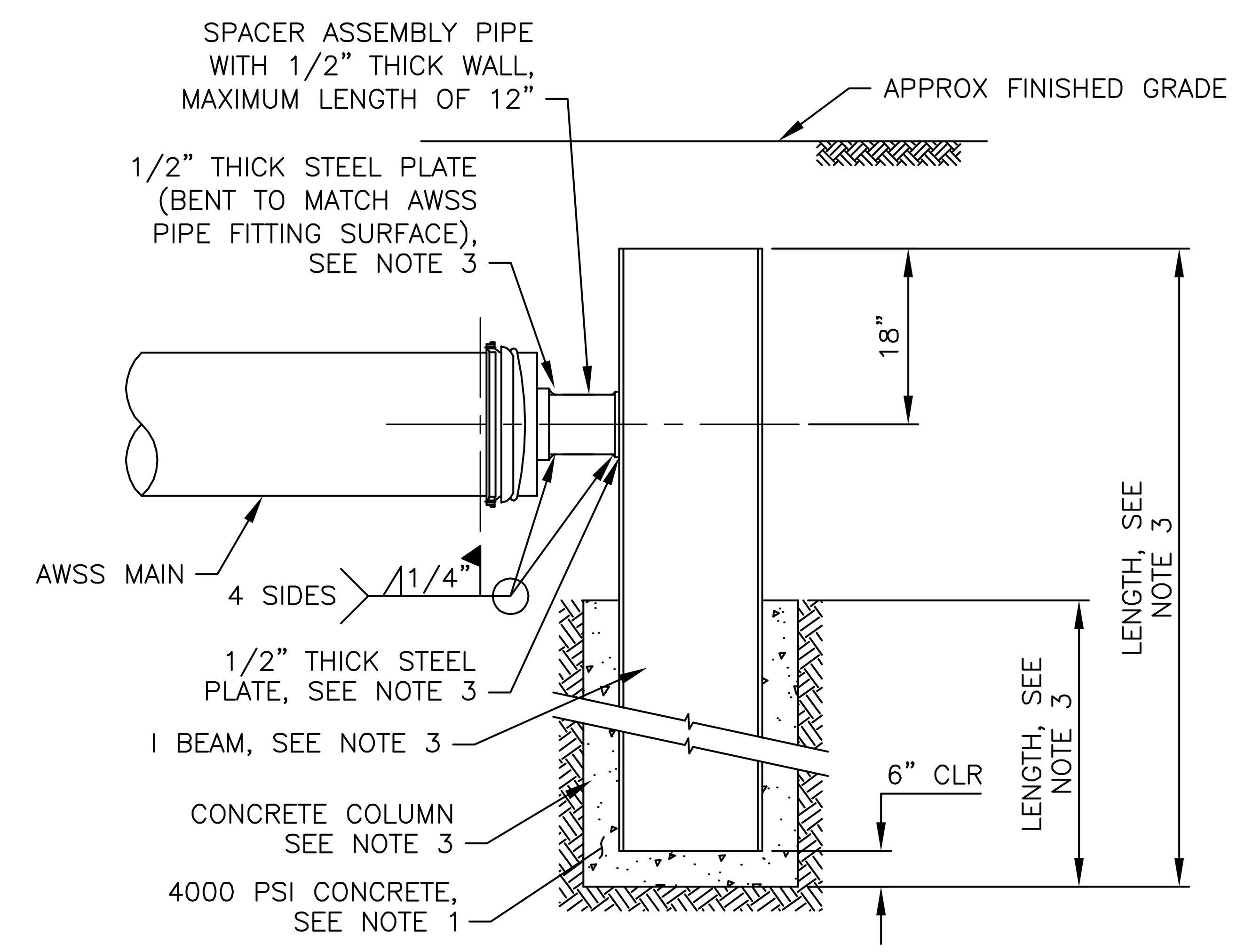


PLAN– DUCTILE IRON FLAT CAP/BLIND FLANGE

N.T.S.

NOTES (PLAN VIEW):

1. STOP COLLARS, TIE RODS NUTS, WASHERS, COLLAR STOPS NOT SHOWN. REFER TO NEW WORK DWGS FOR REQUIREMENTS.
2. REFER TO "TABLE OF DIMENSIONS" ON THIS SHEET FOR SPACER ASSEMBLY DIAMETER, I BEAM SIZE AND LENGTH, AND CONCRETE COLUMN DIAMETER.



ELEVATION

NOTES:

1. FILL ENTIRE VOID BETWEEN I BEAM AND DRILLED SHAFT WITH CONCRETE, VIBRATE TO ENSURE NO VOIDS REMAIN.
2. I BEAM SHALL BE CENTERED IN DRILLED SHAFT.
3. REFER TO "TABLE OF DIMENSIONS" ON THIS SHEET FOR STEEL PLATE SIZE, I BEAM SIZE AND LENGTH AND CONCRETE SHAFT DIAMETER AND DEPTH.

TABLE OF DIMENSIONS

AWSS PIPE SIZE (INCHES)	SPACER ASSEMBLY DIA. (INCHES)	STEEL PLATE (INCHES)	I BEAM	I BEAM LENGTH (FEET)	CONCRETE COLUMN DIA. (INCHES)
8–12	8	12 X 12	W12 X 72	20	30
14–16	10	14 X 14	W16 X 88	26	32
18–20	12	18 X 18	W24 X 100	33	36

CONCRETE/STEEL THRUST POST DETAIL

N.T.S.

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AWSS STANDARD DRAWINGS 2

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

Date: 05/01/17
Scale: NONE
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

No. | Revisions

Drawing Number:

AW3.05

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW300-Details.dwg (AWSS-05)
PLOT TIME: 5-1-2017 8:00 AM PLOTTED BY: bum

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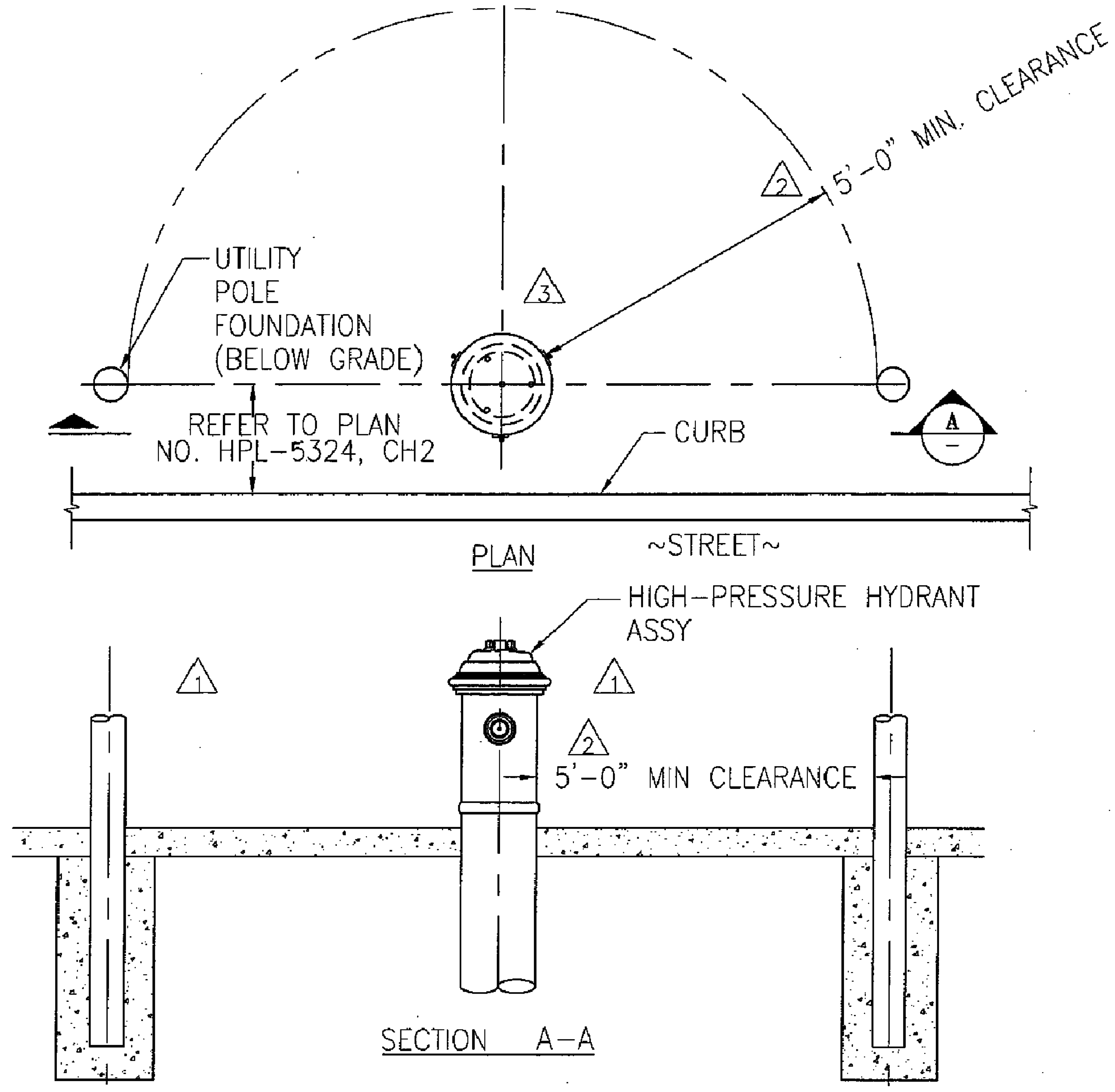


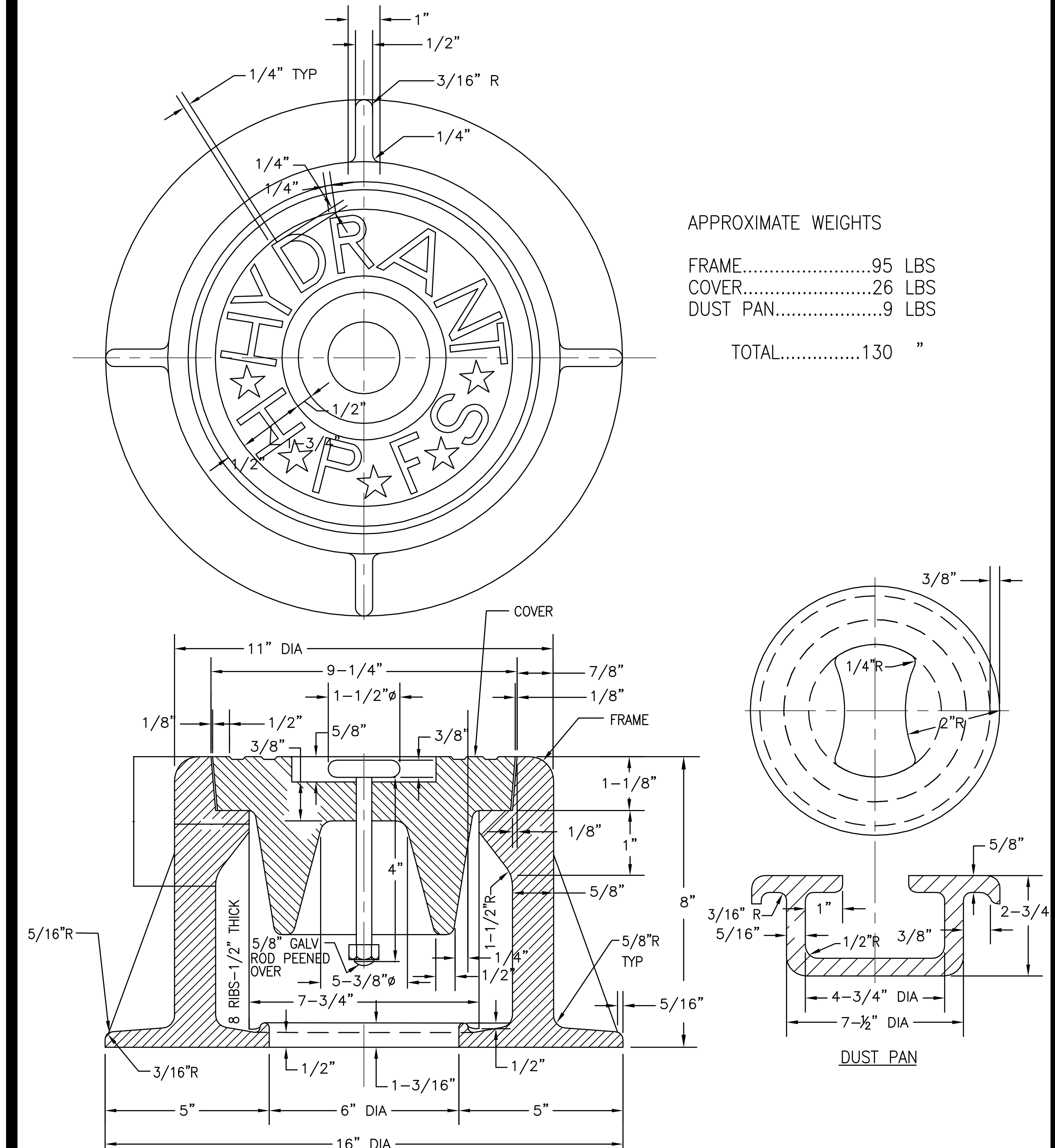
NO.	DATE	DESCRIPTION	BY
3	8/23/05	HYDRANT ROTATION	MBS
2	3/4/05	CHANGED MIN. CLEARANCE	MBS
1	4/84	REVISED	E.S

TABLE OF CHANGES

SCALE: NONE

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS-BUREAU OF ENGINEERING
MINIMUM ALLOWABLE CLEARANCE FOR H.P. HYDRANTS

BY: DEM	APP'D MANAGER, GES DIVISION	DATE: 3/04/05
		REVISION: 2
CH'D: MBS	APP'D CHIEF, BUREAU OF ENGINEERING	DETAIL: HPL-5950



APPROXIMATE WEIGHTS

FRAME........................95 LBS
COVER.........................26 LBS
DUST PAN....................9 LBS

TOTAL...............130 "

SCALE: NONE

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS-BUREAU OF ENGINEERING
DETAIL OF GATE VALVE COVER, FRAME AND DUST PAN FOR H.P. HYDRANT

BY:	APP'D MANAGER, GES DIVISION	DATE:
		REVISION: 0
CH'D:	APP'D CHIEF, BUREAU OF ENGINEERING	DETAIL: HPL-5337

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AWSS STANDARD DRAWINGS 3
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

Date: 05/01/17
Scale: NONE
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

Drawing Number:
AW3.06

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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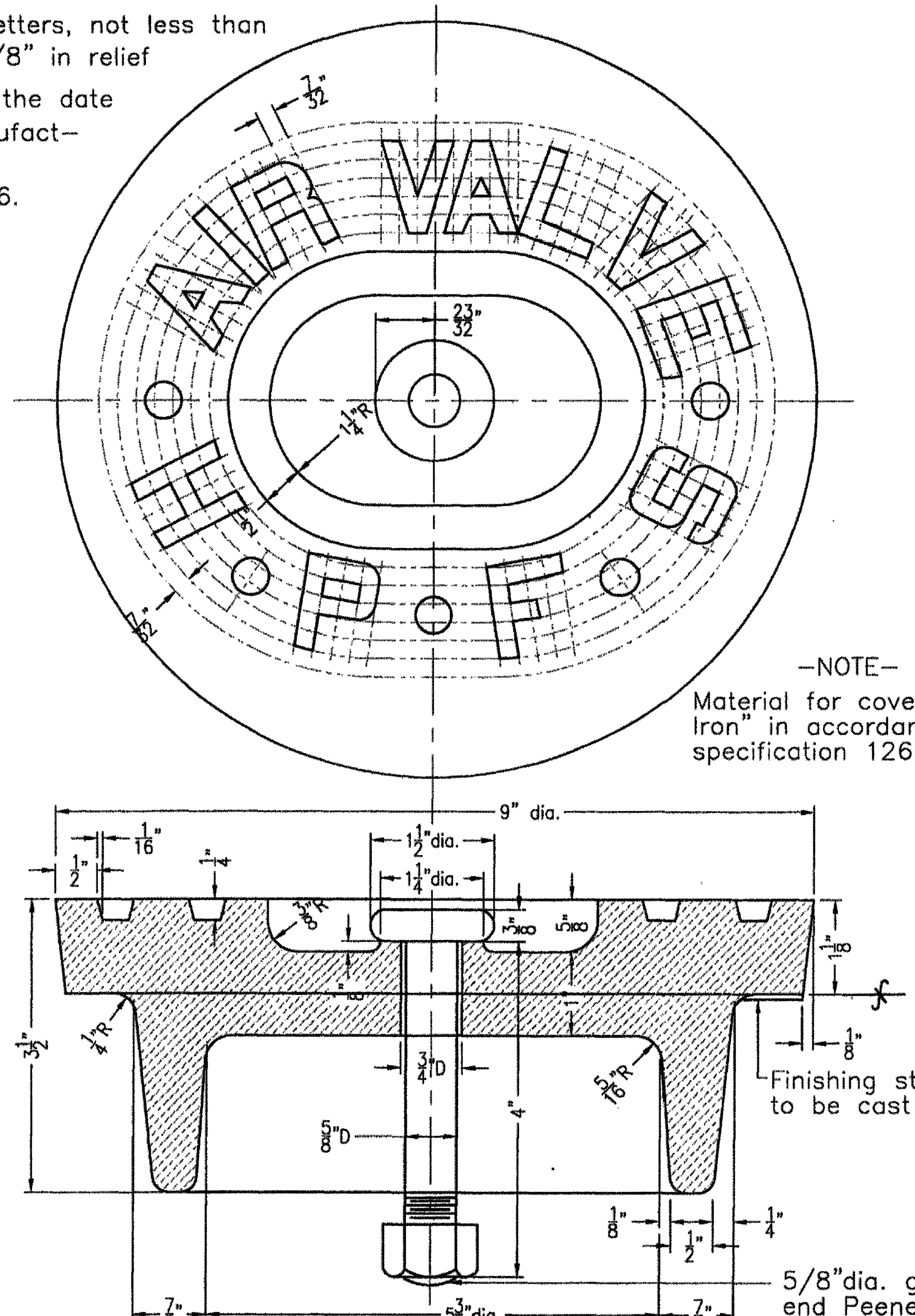
Mark patterns in raised letters, not less than 1" high and less than 1/8" in relief with the letters $\frac{\text{A.W.S.S.}}{\text{S.F.}}$; the date of manufacture, the manufacturers initials, and the Pattern number HPL-5526.

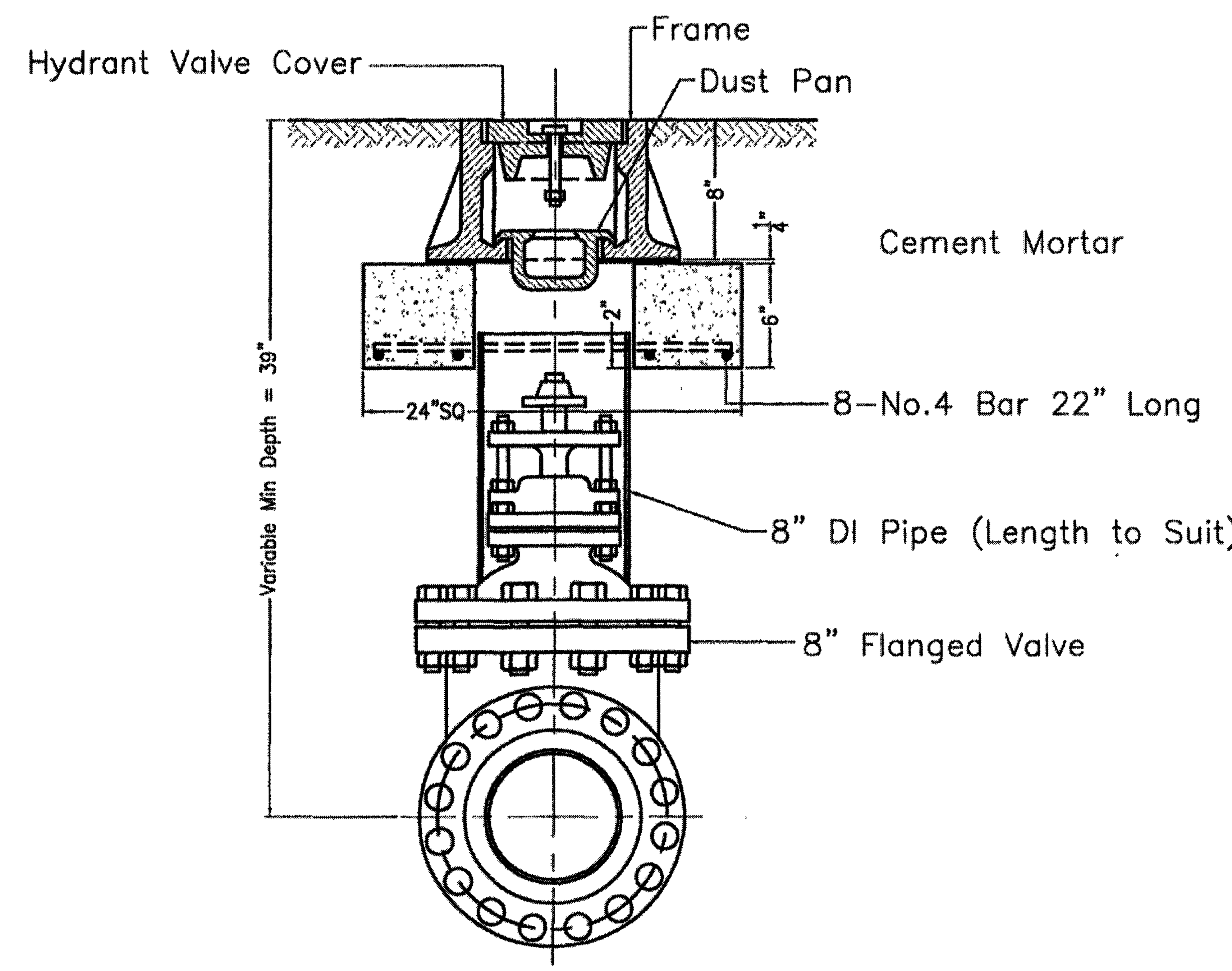


-NOTE-
Material for cover to be "Gray Iron" in accordance with ASTM specification 126-42 class A

PATT. NO. HPL-5526
APPROX. WEIGHT = 25 LBS.

COVER FOR AIR VALVE.

HPL-5526



Note.
See Plan M-2.03 (HPL-5337) For Details of Hydrant Valve Cover, Frame & Dust Pan

HPL-39450

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AWSS STANDARD DRAWINGS 4
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

Date: 05/01/17
Scale: NONE
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

Drawing Number:
AW3.07

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW300-Details.dwg (AWSS-07)
PLOT TIME: 5-1-2017 8:00 AM PLOTTED BY: bum

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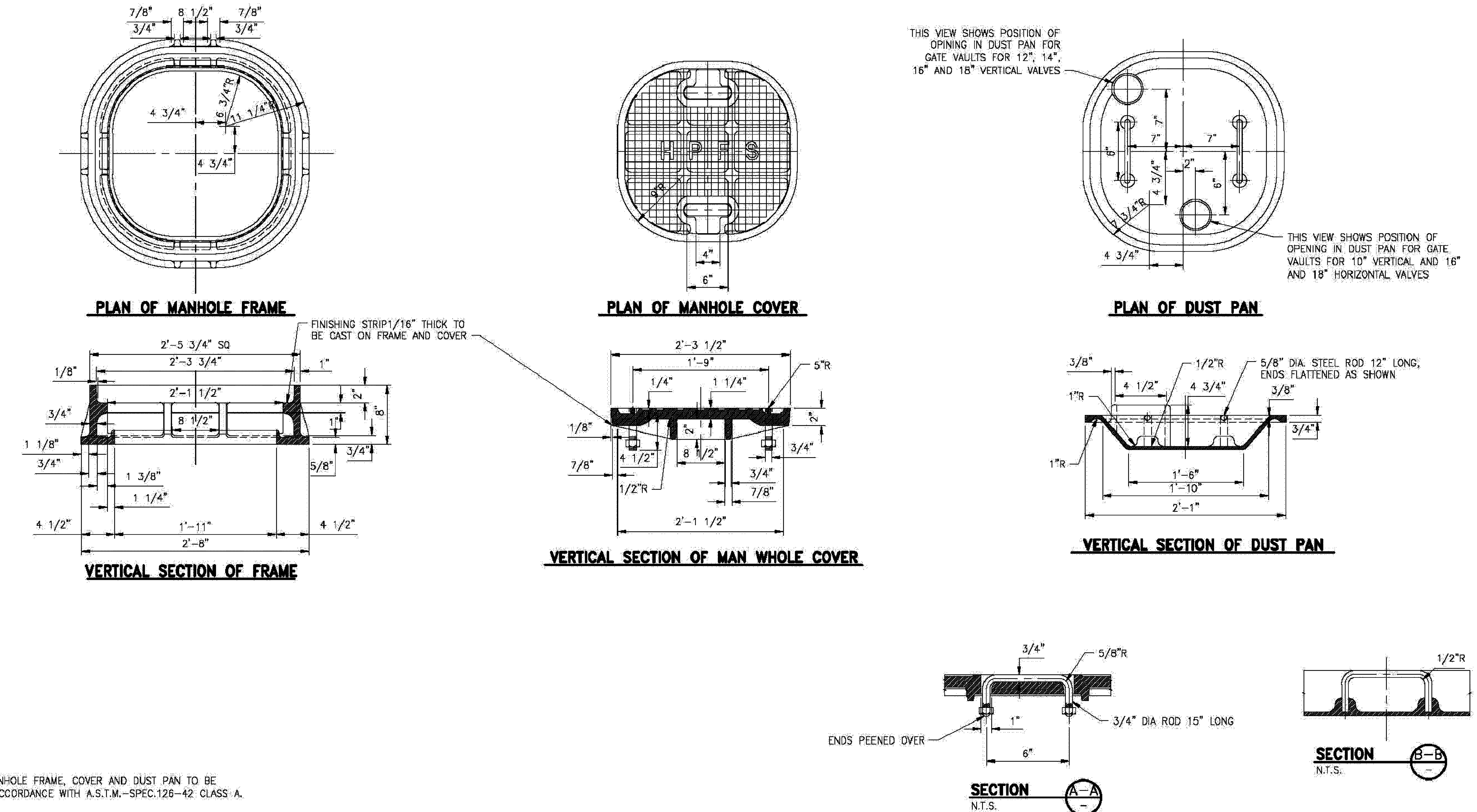

NOTE:

MATERIAL FOR MANHOLE FRAME, COVER AND DUST PAN TO BE "GRAY IRON" IN ACCORDANCE WITH A.S.T.M.-SPEC.126-42 CLASS A.

MARK PATTERNS IN RAISED LETTERS, NOT LESS THAN 1" HIGH AND NOT LESS THAN 1/8" IN RELIEF WITH THE LETTERS A.W.S.S./S.F., THE DATE OF MANUFACTURE AND THE MANUFACTURERS INITIALS ON THE PATTERNS.

STANDARD DRAWING A - 5098

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AWSS STANDARD DRAWINGS 5
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

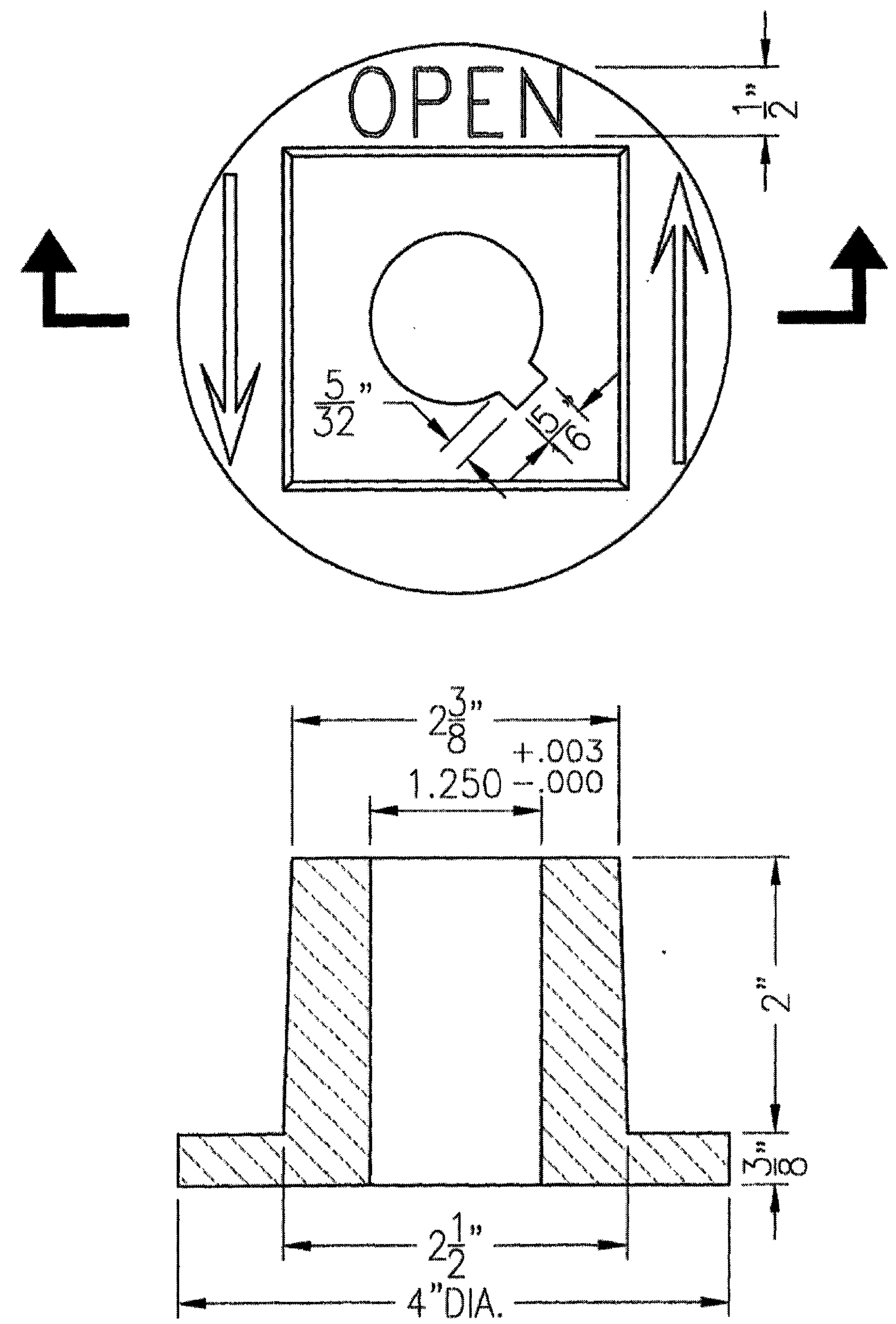
Date: 05/01/17	No.
Scale: NONE	Revisions
Design: YT	
Drawn: RAM	
Approved: YT	
Job No: 20090086	

Drawing Number:
AW3.08

DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW300-Details.dwg (AWSS-08)
PLOT TIME: 5-1-2017 8:00 AM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

NOTE: MATERIAL TO BE CAST BRONZE IN ACCORDANCE WITH ASTM DESIGNATION B-197-71 MANGANESE BRONZE



HPL-39490

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PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
AWSS STANDARD DRAWINGS 6
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: NONE
Design: YT
Drawn: RAM
Approved: YT
Job No: 20090086

Drawing Number:
AW3.09

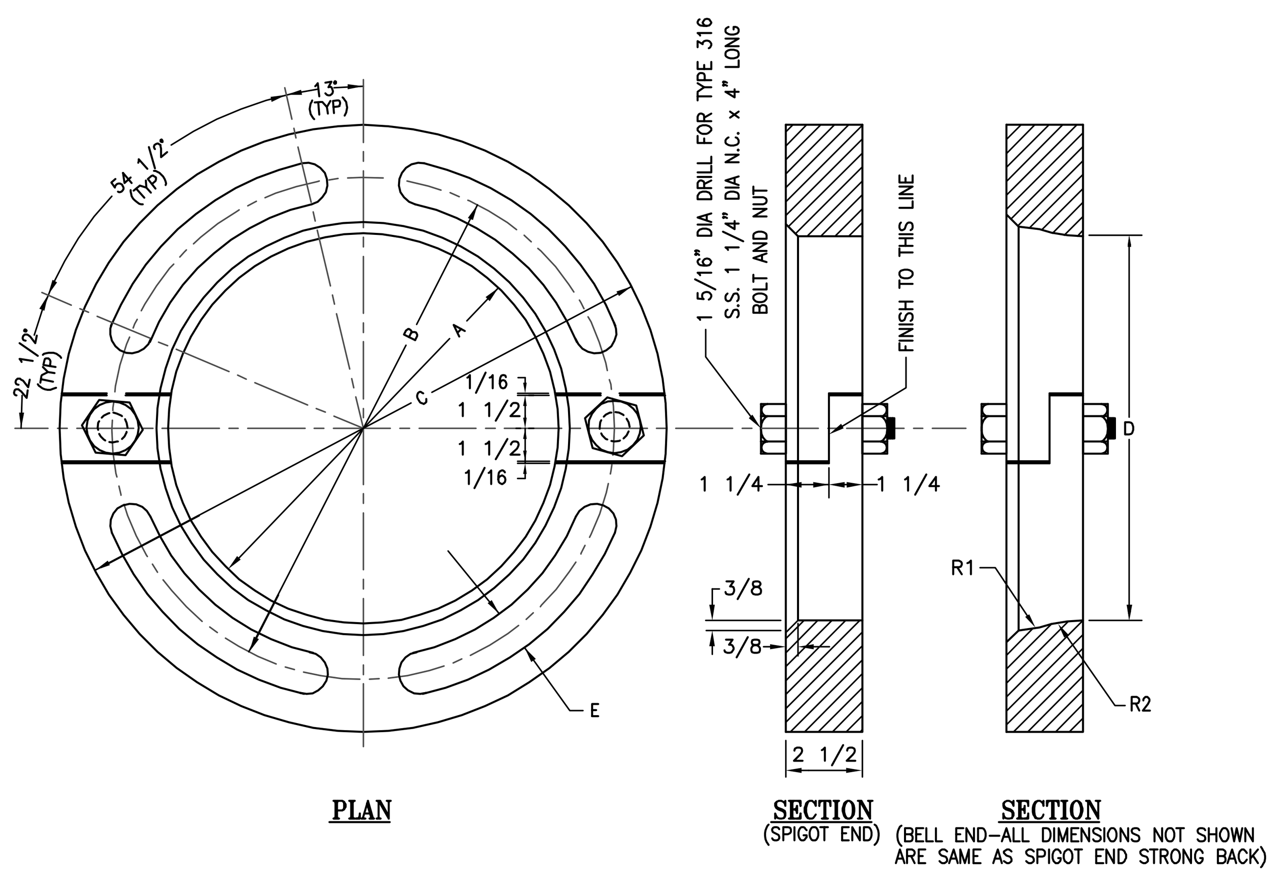
DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW300-Details.dwg (AWSS-09)
PLOT TIME: 5-1-2017 8:00 AM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

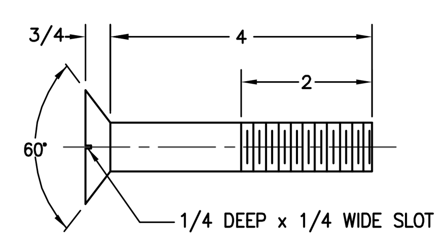
NOMINAL DI PIPE SIZE	DIMENSIONS (IN INCHES)							
	TYPE	A	B	C	D	E	R1	R2
8"	A	9.30	15.75	18.75	9.37	1.37	6	6
10"	A	11.35	18.37	21.62	11.42	1.50	6	6
12"	A	13.45	21.12	24.87	13.52	1.75	6	6
14"	B	15.55	23.62	22.37	15.65	1.62	8	8
16"	B	17.65	26.37	30.12	17.84	1.75	8	8
18"	B	19.75	29.0	32.75	20.00	2.00	8	8
20"	B	21.85	31.87	37.62	22.10	2.12	8	8

-NOTES-

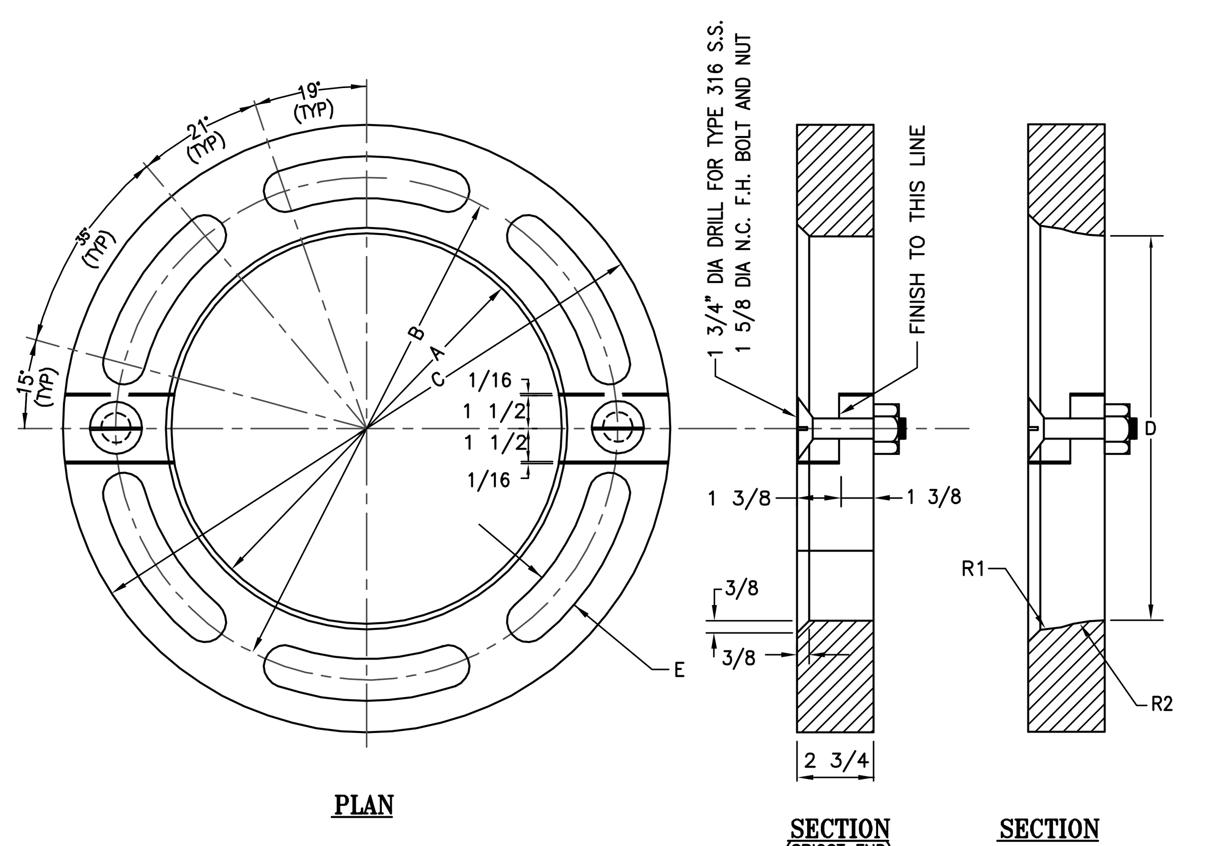
1. MATERIAL TO BE CAST STEEL (IN ACCORDANCE WITH A.S.T.M. SPEC. A-27-24) AND ALL SUBSEQUENT REVISIONS THERETO,- OR PLATE STEEL. MARK PATTERN IN RAISED LETTERS NOT LESS THAN 5/8" HIGH AND NOT LESS THAN 1/8" IN RELIEF; WITH THE LETTERS SF-A.W.S.S., THE DATE OF MANUFACTURE AND THE MANUFACTURER'S INITIALS. CASTINGS TO BE COATED IN A SIMILAR MANNER TO THAT SPECIFIED IN THE STANDARD SPECIFICATIONS FOR THE A.W.S.S. FOR CAST STEEL SPECIALS. PLATE STEEL STRONG BACKS SHALL HAVE THE ABOVE INFORMATION BEAD WELDED ONTO THE OUTSIDE CIRCUMFERENCE. THE WELD BEAD SHALL BE A MINIMUM OF 1/8" HIGH. THE PIPE MANUFACTURER SHALL FURNISH THE MANUFACTURER OF THE STRONG BACK WITH THE NECESSARY BELL CONTOUR DIMENSIONS AND ANY PROJECTION ON BEARING SURFACES SHALL BE GROUND SMOOTH.
2. DIMENSIONS A, D, R1, R2 SHALL HAVE A TOLERANCE OF $^{+\,0.0}_{-\,0.06}$. ALL OTHER DIMENSIONS SHALL HAVE A TOLERANCE OF ±0.06.
3. (1) INSIDE DIAMETER DIMENSIONS GIVEN IN THE TABLE ARE BASED ON THOSE AS PROVIDED BY THE DUCTILE IRON PIPE MANUFACTURERS. THE CONTRACTOR SHALL FIELD VERIFY THE PIPE WHERE THE STRONG BACK IS TO BE INSTALLED PRIOR TO FABRICATION.
4. (1) THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CAST IRON PIPE PRIOR TO FABRICATING THE BELL END STRONG BACK AND ADJUST THE INSIDE DIAMETER AND RADIUS DIMENSIONS ACCORDINGLY.



TYPE A



1 5/8" DIA N.C. FLAT HEAD BOLT



TYPE B

NO.	DATE	DESCRIPTION	BY	APP.

TABLE OF REVISIONS
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION

REFERENCE INFORMATION & FILE NO. OF SURVEYS

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

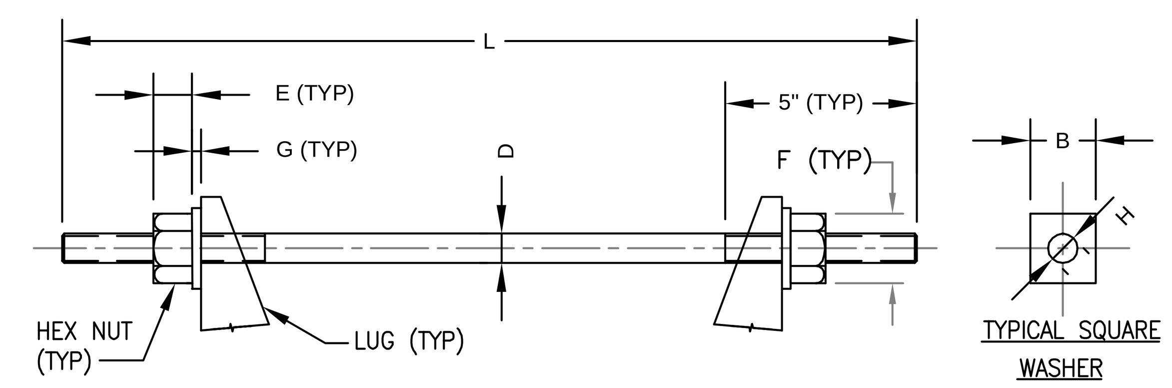
DESIGNED: MBS DATE: 07/08
DRAWN: NL DATE: 07/08
CHECKED: DATE:

APPROVED
SECTION MANAGER DATE:
DEPUTY BUREAU MANAGER DATE:
BUREAU MANAGER DATE:

SCALE: NONE
SHEET OF SHEETS: 1 OF 1

CITY AND COUNTY OF SAN FRANCISCO
AUXILIARY WATER SUPPLY SYSTEM
DUCTILE IRON PIPE SIZE STRONG BACK PLATE/CAST STEEL

SPECIFICATION NO.
DRAWING NO.
FILE NO. HPL-5646.7
REV. NO. 1



DIMENSIONS IN INCHES							STANDARD BELL & SPIGOT JOINTS	STANDARD SLEEVE JOINTS
PIPE SIZE	D	E	F	G	H	B	L	
8	1-1/8"	1	1-3/16"	1/4"	1-7/16"	2-1/2"	22	32
10	1-1/4"	1-1/8"	2	1/4"	1-9/16"	2-3/4"	24	36
12	1-3/8"	1-1/4"	2-3/16"	5/16"	1-11/16"	3-1/4"	26	40
14	1-3/8"	1-1/4"	2-3/16"	5/16"	1-11/16"	3-1/2"	20"	41
16	1-1/2"	1-3/8"	2-3/8"	5/16"	1-11/16"	3-1/2"	29	47
18	1-3/4"	1-5/8"	2-3/4"	3/8"	2-1/16"	3-3/4"	31	51
20	1-7/8"	1-3/4"	2-15/16"	7/16"	2-3/16"	4	33	54

GENERAL NOTES

1. THREADS SHALL CONFORM TO THE ANSI FOR SCREW THREADS B1.1 COARSE THREAD SERIES WITH CLASS 2A TOLERANCE FOR BOLTS AND CLASS 2B FOR NUTS. 1-5/8 ø THREADS MAY BE 8UN.
2. BOLTS, TIE RODS, NUTS AND WASHERS SHALL BE OF AUSTENITIC STAINLESS STEEL CONFORMING TO AMERICAN IRON AND STEEL INSTITUTE. (ANSI) AND AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) SPECIFICATIONS. ALL BOLTS SHALL CONFORM TO ASTM A-193, CLASS 2, GRADE B8M (ANSI TYPE 316). ALL NUTS AND SLEEVES SHALL CONFORM TO ASTM 194, SYMBOL 8M (ANSI TYPE 316). ALL TIE RODS, THREADED RODS AND WASHERS SHALL CONFORM TO ANSI TYPE 316. COAT THREADS WITH AN ANTI-SEIZE COMPOUND TO PREVENT GALLING.
3. EXACT BOLT LENGTHS REQUIRED FOR OTHER JOINTS SHALL BE DETERMINED IN THE FIELD.
4. CONTINUOUSLY THREADED RODS MAY BE SUBSTITUTED.

SCALE: NONE

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS-BUREAU OF ENGINEERING
STAINLESS STEEL BOLTS, NUTS AND WASHERS

BY:	APP'D MANAGER, GES DIVISION	DATE:
		REVISION: 3
CH'D:	APP'D CHIEF, BUREAU OF ENGINEERING	DETAIL: HPL-49,102

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PHASE 1A STREET IMPROVEMENT PLANS
AWSS STANDARD DRAWINGS 7
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
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Approved: YT
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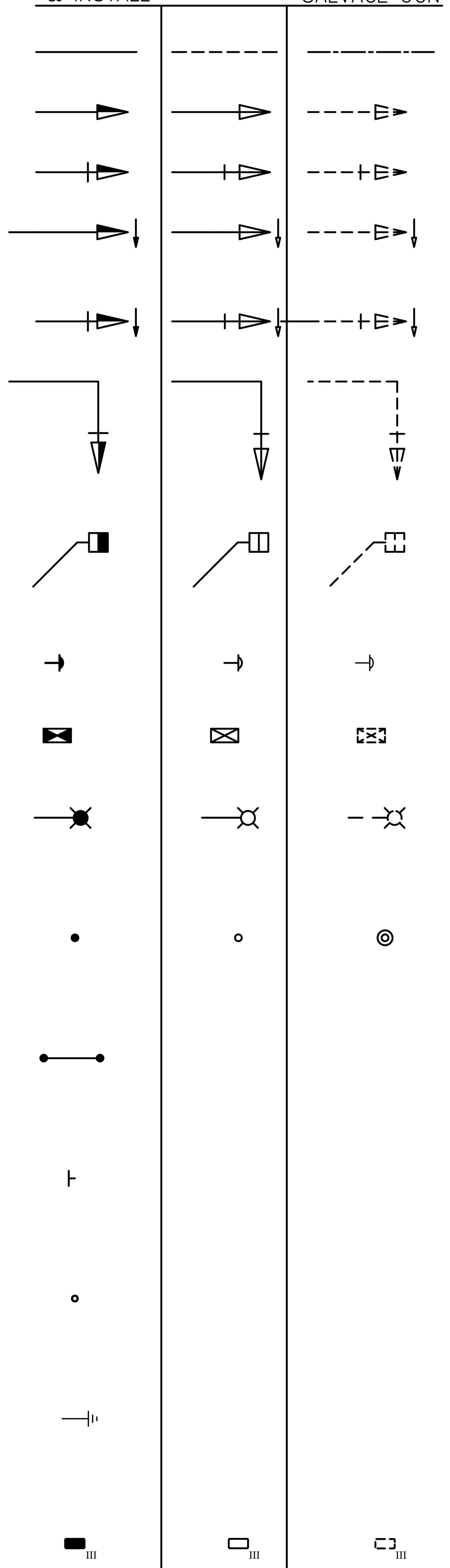
DRAWING NAME: J:\Eng09\090086-12\SHEETS\PHASE-01A\PH01A-AW300-Details.dwg (AWSS-10)
PLOT TIME: 5-1-2017 8:00 AM PLOTTED BY: bum

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

LEGEND

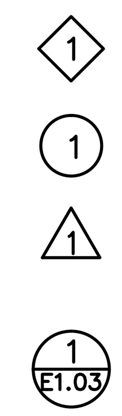
SYMBOLS

FURNISH & INSTALL	EXISTING	REMOVE / SALVAGE UON	



- CONDUIT
- VEHICLE SIGNAL FACE – 12"
- VEHICLE SIGNAL FACE – 12" BACK PLATE INSTALLED ON SIGNAL FACE
- VEHICLE SIGNAL FACE – 12" WITH ARROWS
- VEHICLE SIGNAL FACE – 12" WITH ARROWS BACK PLATE INSTALLED ON SIGNAL FACE
- MAST ARM MOUNTED SIGNAL FACE. VEHICLE SIGNAL FACE – 12" BACK PLATE INSTALL ON SIGNAL FACE
- PEDESTRIAN SIGNAL
- PEDESTRIAN PUSH BUTTON
- "M" OR "M-SF" FOUNDATION
- STREET LIGHT WITH 6' LUMINAIRE ARM
- TRAFFIC SIGNAL OR STREET LIGHT POLE WITH FOUNDATION.
- PEDESTRIAN BARRICADE
- SIGN
- SENSYS TYPE F-MODEL SENSOR
- GROUND ROD – 5/8" ØX10'-0" (15.88 mm X 3048 mm)
- PULL BOX TYPE III

SYMBOLS



- DETAIL NOTE
- POLE NUMBER
- CONDUIT RUN NUMBER
- DETAIL REFERENCE, SEE DETAIL "1" ON DRAWING NO. E1.03

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ELECTRICAL LEGEND – SYMBOLS

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

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DRAWING NAME: \\BKF-SJ\vol4\2009\20090086-15\ENG\Sheets\Phase 1A\E1.00 – Symbols.dwg (Layout1)
PLOT TIME: 4-28-2017 4:23 PM PLOTTED BY: leea

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LEGEND

ABBREVIATIONS

A	AMPERE
APS	ACCESSIBLE PEDESTRIAN SIGNALS
ATS	AUTOMATIC TRANSFER SWITCH
AVE	AVENUE
A.T.&T.	AMERICAN TELEPHONE COMPANY
AWG	AMERICAN WIRE GAUGE
BP	SIGNAL BACKPLATE
BSCW	BARE STRANDED COPPER WIRE
C	CONDUIT
CAB	CABINET
CCTV	CLOSED CIRCUIT TELEVISIONCAMERA
CKT	CIRCUIT
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CTSP CTSS	STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS AND STANDARD SPECIFICATIONS.
DLC	DETECTOR LEAD-IN CABLE
DLW	DETECTOR LOOP WIRES
DTIS	DEPT. OF TELECOMMUNICATIONS AND INFORMATION SERVICES
DWG	DRAWING
(E), EX	EXISTING
EXT	EXTERNAL
FA	FIRE ALARM
FC	FULL CIRCLE VISOR
F/I	FURNISH AND INSTALL UNDER THIS CONTRACT
FRH	FLASHING RED HAND
FUT, (F)	FUTURE
HDPE	HIGH DENSITY POLYETHELYNE
HW	HIGH VOLTAGE VAULT
HPS	HIGH PRESSURE SODIUM
HZ	HERTZ
G	GREEN
GND	GROUND
GRSC	GALVANIZED RIGID STEEL CONDUIT
IC	INTERSECTION CONTROLLER
I/P	IN PLACE OF
JB	JUNCTION BOX
KVA	KILOVOLTAMPERE
KW	KILOWATT
LGT	LIGHT
LUM	LUMINAIRE
M	METER

ABBREVIATIONS (CONT.)

MAS	MAST ARM MOUNTED VEHICLE SIGNALS SIDE MOUNTED
METS	MAYOR'S EMERGENCY TELEPHONE SYSTEM
mm	MILLIMETER
(N)	NEW
NIC	NOT IN CONTACT
NTS	NOT TO SCALE
OH	OVERHEAD
PAC	PACIFIC BELL CO.
PG&E, PGE	PACIFIC GAS AND ELECTRIC COMPANY
PED	PEDESTRIAN
PED(S) XING	PEDESTRIAN CROSSING
PPB	PEDESTRIAN PUSH BUTTON
PPBP	PEDESTRIAN PUSH BUTTON POST (POLE)
PV	PROGRAMMED VISIBILITY
PVC	POLYVINYL CHLORIDE
R	RED
R/C	REMOVE FROM SITE OF WORK AS CONTRACTOR'S PROPERTY
RH	RED HAND
RLC	RED LIGHT CAMERA
(R)	RELOCATED
R/R	REMOVE AND RELOCATE, OR REMOVE AND REINSTALL AS APPLICABLE
R/S	REMOVE AND SALVAGE AS CITY'S PROPERTY
R/W	RIGHT OF WAY
SCGW	STRANDED COPPER GROUND WIRE
SL	STREET LIGHT
SP	SPARE
ST	STREET
SW	SWITCH
SPDPWSF	STANDARD PLAN, DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF SAN FRANCISCO.
SSDPWSF	STANDARD SPECIFICATION, DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF SAN FRANCISCO.

ABBREVIATIONS (CONT.)

T	TUNNEL VISOR
TS	TRAFFIC SIGNAL
TP	TROLLEY SIGNAL
TPB	TRANSIT PUSH BUTTON
V	VOLT
VA	VOLTAMPERE
VDS	VIDEO DETECTION SYSTEM CAMERA
U.O.N., UON	UNLESS OTHERWISE NOTED
VEH	VEHICLE
VMS	VARIABLE MESSAGE SIGN
W	WATT
WM	WALK MAN
WP	WOOD POLE
WPR	WEATHERPROOF
Y	YELLOW
TV-X, SV-X, TP-X, SP-X	VEHICLE AND PEDESTRIAN SIGNAL POLE MOUNTING DESIGNATIONS. SEE CTSP ES 3-A, ES-3B, ES-3C EXCEPT USE U-BOLTS IN LIEU OF POLE AS APPLICABLE.
EB, WB, NB, SB	TRAFFIC DIRECTION SUCH AS EAST BOUND, WEST BOUND, NORTH BOUND AND SOUTH BOUND.
1-A (X)	CALTRANS TYPE OF SIGNAL STANDARD. SEE CTSP.
12/C	12-CONDUCTOR CABLE
XX-XX-100	CALTRANS TYPE OF SIGNAL STANDARD WITH SIGNAL MAST ARM. SEE CTSP.
1S-COUNT	1 SECTION COUNTDOWN TIMER LED PEDESTRIAN SIGNAL
3S12"	3 SECTION 12", RED, YELLOW, GREEN
3S12"LA	3 SECTION 12", RED, YELLOW, GREEN (ALL LEFT ARROWS)
3S12"FR	3 SECTION 12", SOLID RED, BLANK, FLASHING RED

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PHASE 1A STREET IMPROVEMENT PLANS
ELECTRICAL LEGEND - ABBREVIATIONS

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

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PLOT TIME: 4-28-2017 4:26 PM PLOTTED BY: leeo

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LEGEND

GENERAL NOTES

1. THESE ELECTRICAL PLANS ARE DIAGRAMMATIC AND ARE CORRECT FOR GENERAL DESIGN ONLY. THE EXACT LOCATIONS OF EQUIPMENT & APPURTENANCES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

2. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES APPLY TO ALL "E" DRAWINGS.

3. THIS IS A GENERAL LEGEND. NOT ALL SYMBOLS ARE USED.

4. SPECIAL INSTRUCTION TO THE CONTRACTOR: IT IS EXPECTED THAT AN ELECTRICAL CONTRACTOR WILL BE ABLE TO INTERPRET THE DESIGNED TRAFFIC PHASING AND THE WIRING SHOWN ON THE PLANS AND ENSURE THAT THE NET RESULT WILL OPERATE CORRECTLY. ANY IRREGULARITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

5. ALL CALTRANS TYPE STANDARDS SHALL BE IN ACCORDANCE WITH SECTION 86-2.04 OF CTSS. EXCEPT MASTARM POLE HANDHOLES ARE 180° AWAY FROM CURB AND SL POLE HANDHOLES ARE 90° AWAY FROM CURB AND ALSO AWAY FROM TRAFFIC.

6. IC DOOR SHALL BE ORIENTED AWAY FROM INTERSECTION SUCH THAT WHILE WORKING IN THE IC, THE TECHNICIAN IS FACING THE INTERSECTION. NO PULL BOX SHALL BE LOCATED WITHIN A 3' BY 3' CLEARANCE IN FRONT OF IC DOOR.

7. SERVICE CONNECTIONS SHALL BE MADE PER SPDPWSF#87,203. IF THE PLAN REQUIRES FUSING IN A PULL BOX FOR IC SERVICE, THIS IS THE POINT THE NEUTRAL IS BONDED TO GROUND. THE GROUND ROD IN THE PULL BOX SHALL BE CONNECTED TO THE GROUND ROD IN THE IC WITH #6 BSCW TO FORM A GROUNDING SYSTEM.

8. FOR SIGNAL SERVICE FROM PG&E THAT DOES NOT GO DIRECTLY TO INTERSECTION CONTROLLER, CONTRACTOR SHALL PROVIDE IN LINE FUSE AND FUSE HOLDER SIMILAR TO STREET LIGHTS APPLICATIONS. SEE SPDPWSF #87,203. F/I IN-LINE FUSE HOLDERS W/40A FUSES FOR IC SERVICE AND SL SERVICE.

9. PROVIDE GROUND WIRES IN ALL TRAFFIC SIGNAL, STREET LIGHT AND SERVICE CONDUIT.

10. CONTRACTOR SHALL VERIFY THE VOLTAGE OF EACH EXISTING STREET LIGHT LUMINAIRE SO THE NEW STREETLIGHT LUMINAIRE REPLACING THE OLD LUMINAIRE SHALL HAVE THE SAME VOLTAGE, U.O.N.

11. PROVIDE 12" CONCRETE COLLAR ALL AROUND PULL BOX IN UNPAVED OR LAWN AREA PER SPDPWSF #87,201.

12. CONTRACTOR SHALL CONSTRUCT A CONCRETE PAD AROUND A POLE OR CONTROLLER CABINET FOUNDATION IN AN UNPAVED OR LAWN AREA. FINAL DIMENSIONS OF CONCRETE PAD SHALL BE DIRECTED BY RESIDENT ENGINEER.

13. CONTRACTOR SHALL COORDINATE WITH RESIDENT ENGINEER TO LAYOUT CONTRACT CURB LOCATIONS PRIOR TO POLE, PULL BOX, AND FOUNDATION CONSTRUCTION.

14. CONTRACTOR SHALL PROTECT EXISTING CURB RAMPS NOT SHOWN ON THE PLANS BY RUNNING CONDUITS AROUND THEM. EXISTING CURB RAMPS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED BY THE CONTRACTOR AT THEIR EXPENSE.

15. CONTRACTOR SHALL BE RESPONSIBLE FOR WORKING AROUND AND PROTECTING ALL EXISTING FACILITIES ADJACENT TO HIS WORK AREA. THESE FACILITIES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: TREES, LANDSCAPING, HYDRANTS AND UTILITY POLES.

16. PROVIDE 1/4" PULL ROPE IN ALL EMPTY PVC OR GRSC CONDUITS AND ALL CONDUITS CROSSING THE STREET CONTAINING TS OR 12/C. PROVIDE 3/8" PULL TAPE IN ALL POLYETHYLENE CONDUITS.

17. CONDUITS RUNNING IN THE SAME DIRECTION CAN BE JOINT TRENCHED.

18. CONTRACTOR SHALL COORDINATE WITH RESIDENT ENGINEER TO REFERENCE EX SURVEY MONUMENTS BEFORE CONSTRUCTION: 48 HOURS ADVANCE NOTICE IS REQUIRED.

19. IN ACCORDANCE WITH SAN FRANCISCO ADMINISTRATIVE CODE SECTION 6.22(E), THE CONTRACTOR AND ITS SUBCONTRACTORS SHALL PAY THEIR WORKERS THE GENERAL RATES OF PREVAILING WAGE BASED ON THE TYPE OF WORK PERFORMED. THE CONTRACTOR AND ITS SUBCONTRACTORS ARE ADVISED THAT THE CITY CONSIDERS THE PROPER CLASSIFICATION FOR EMPLOYEES WHO PERFORM ALL ELECTRICAL WORK ASSOCIATED WITH THE INSTALLATION OF UNDERGROUND FED TRAFFIC SIGNALS TO BE THAT OF ELECTRICIAN: INSIDE WIREMAN. THE CLASSIFICATION OF ELECTRICAL UTILITY LINEMAN IS NOT APPLICABLE FOR THIS TYPE OF WORK. THE SAN FRANCISCO BOARD OF SUPERVISORS ANNUALLY DETERMINES THE CLASSIFIED PREVAILING RATES OF WAGE. PRINTED VERSIONS ARE AVAILABLE FROM DEPUTY BUREAU CHIEF MAURICE WILLIAMS AT (415)554-8362. THE RATES ARE ALSO AVAILABLE ON-LINE AT http://www.dir.ca.gov/DLRS/PWD.

GENERAL NOTES (CONT.)

20. CONTRACTOR TO FIELD VERIFY AND MAINTAIN TRAFFIC SIGNAL, STREETLIGHT, AND INTERCONNECT WIRING WHICH WILL NOT BE MADE OBSOLETE AND WHICH WILL BE DISTURBED DUE TO CONSTRUCTION CHANGES REQUIRED BY THE CONTRACT. THEY SHALL BE RESTORED TO OPERATING CONDITION, AS REQUIRED AND/OR AS DIRECTED. WHERE REQUIRED, SHOWN AND/OR DIRECTED, CONDUIT RUNS SHALL BE RELOCATED. IN SOME CASES, IT MAY BE NECESSARY TO EXTEND CONDUITS AND PULL IN NEW WIRING OR REPLACE OLD WIRING WITH NEW.

21. WHERE EXISTING CONDUIT IS TO BE ABANDONED, THE CONDUIT SHALL BE REMOVED IF IT IS EXPOSED. WHERE IT IS IMPOSSIBLE TO REMOVE THE CONDUIT, IT SHALL BE CUT OFF AND CAPPED OR PLUGGED.

22. ALL TEMPORARY AND REMODELING WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OR MATERIAL EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.

23. COORDINATE WITH OTHER TRADES TO DETERMINE THE SEQUENCE OF CONSTRUCTION TRHOUGH-OUT THE PROJECT, INCLUDING EXISTING, TEMPORARY REMODELED AND NEW AREAS, WHERE APPLICABLE.

24. RECONNECT ALL EXISTING TRAFFIC SIGNAL AND STREETLIGHTING SERVICES WHICH MAY HAVE BEEN INTERRUPTED DUE TO RENOVATION. RESTORE ALL ELECTRICAL SERVICES AND WIRING TO EXISTING CONDITION.

25. NO EXPOSED CONDUITS. U.O.N.

26. PROVIDE GROUND ROD IN PULL BOX THAT HAS SERVICE CONNECTION.

27. CONTRACTOR SHALL F/I A LABEL ON THE PG&E SERVICE CABLES IN THE IC CABINET THAT IDENTIFIES CORNER OF INTERSECTION WHERE IN-LINE FUSE HOLDER FOR IC SERVICE WAS INSTALLED. (I.E. A SAMPLE LABEL IS AS FOLLOWS: "IC IN-LINE FUSE HOLDER INSTALLED IN NE CORNER")

28. CONTRACTOR TO COORDINATE THE SEQUENCE OF CONSTRUCTION AND SWITCHOVER WITH ENGINEER PRIOR TO INSTALLATION.

29. SPLICING FOR STREETLIGHT AND CONTROLLER ONLY ALLOWED AT UTILITY SERVICE BOXES .

30. PRIOR TO FINAL COMPLETION, CONTRACTOR SHALL CLEAR ALL DEBRIS INSIDE THE PULL BOXES AND CABINETS.

31. ALL NEW POLES AND CONTROLLER CABINETS MUST BE LOCATED AT LEAST 5 FEET FROM FIRE HYDRANTS U.O.N.

32. ALL EXISTING STREETLIGHTS SHALL REMAIN IN OPERATION THROUGHOUT THE DURATION OF THE PROJECT. PROVIDE TEMPORARY LIGHTING AS NEEDED.

33. CONTRACTOR SHALL RESTORE SIDEWALK TO MATCH EXISTING SIDEWALK IN DESIGN, COLOR, AND MATERIAL AND TO EXISTING WHOLE FLAG LINES THAT ARE AFFECTED BY THIS PROJECT.

34. WHEN PROVIDING TEMPORARY SIGNAL, CONTRACTOR SHALL MAINTAIN 5' PATH OF TRAVEL.

35. CONTRACTOR SHALL RELABEL NEW AND REUSED SIGNAL WIRES PER SPECIFICATIONS SECTION 26 05 00. USE SIGNAL HEAD NUMBERS ON PLANS.

36. CONDUIT ALIGNMENT SHOWN ON PLANS ARE SCHEMATIC. CONDUIT RUNS SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE. WHERE OBSTRUCTIONS ARE ENCOUNTERED AND WITH PRIOR APPROVAL OF THE ENGINEER, LOCATION OF CONDUIT MAY BE CHANGED OR ALIGNMENT BE CURVED ACCORDINGLY TO THE CONDUIT BENDING RESTRICTIONS SPECIFIED IN THE SPECIAL PROVISIONS.

37. THE UTILITIES INFORMATION IS FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATIONS OF THE UTILITIES. ALL DAMAGE TO EXISTING UTILITY LINES OR ADJACENT FACILITIES SHALL BE REPAIRED PROMPTLY AT THE CONTRACTOR'S EXPENSE.

38. ANY PULL BOXES INSTALLED ON ROADWAY OR DRIVEWAY SHALL BE H-20 LOADING WITH NO-SKID METAL COVER AND SEE SHEET NOTE 4SPDPWSF #87,201.

GENERAL NOTES (CONT.)

39. FOR ALL TRAFFIC SIGNAL AND STREET LIGHT PULL BOXES THAT ARE ROTATED, RELOCATED, OR ADJUSTED, THE CONTRACTOR SHALL CONTACT SFMTA TRAFFIC SIGNAL SHOP AND SFPUC AT LEAST 3 DAYS PRIOR TO SETTING THE BOX AT THE NEW LOCATION AND/OR GRADE. THE WORK PERFORMED SHALL MEET THE FOLLOWING CONDITIONS:

   - THE ENDS OF ALL EXISTING CONDUITS SHALL BE WITHIN THE WALLS OF THE EXISTING PULL BOX AT ITS NEW LOCATION;
   - THE CONDUIT ENDS (I.E., BUSHINGS) SHALL BE A MINIMUM OF 5" FROM THE BOTTOM OF THE PULL BOX LID;
   - CONTRACTOR SHALL CONTACT THE SFMTA TRAFFIC SIGNAL SHOP AND SFPUC THROUGH THE ENGINEER AFTER THE WORK IS COMPLETED, FOR FINAL INSPECTION AND APPROVAL OF THE PULL BOX MODIFICATION(S);
   - ALL CONDUIT AND WIRING MODIFICATIONS SHALL BE PART OF INCIDENTAL COST.

40. WHERE EXISTING CONDUITS NEED TO BE EXTENDED TO THE PULL BOX, THE CONTRACTOR SHALL MODIFY THE EXISTING TRAFFIC SIGNAL WIRING AS FOLLOWS:

   - REMOVE EXISTING TRAFFIC SIGNAL WIRING, COMPLETE ALL NECESSARY PULL BOX AND CONDUIT MODIFICATIONS, PROVIDE NEW TRAFFIC SINGAL WIRES TO REPLACE ALL THE EXISTING WIRING IMPACTED BY THIS MODIFICATION;

   OR

   - WITH THE APPROVAL OF THE SFMTA TRAFFIC SIGNAL SHOP, THE CONTRACTOR SHALL PULL BACK EXISTING WIRES TO ADJACENT PULL BOX (TOWARD THE I/C), COMPLETE ALL NECESSARY PULL BOX AND CONDUIT MODIFICATIONS, RECONNECT, AND REUSE THE EXISTING TRAFFIC SIGNAL WIRES, IF FEASIBLE.

41. CONTRACTOR TO PROVIDE TEMPORARY POLE BASE MOUNTED LIGHTING FOR PEDESTRIAN AND VEHICULAR SAFETY IF THERE IS CONFLICT WITH EXISTING AND/OR NEW LIGHTING IN THE LIMIT OF WORK. TEMPORARY LIGHTING SOURCE SHALL BE TAP FROM THE NEAREST EXISTING SOURCE. THIS WORK SHALL BE PART OF INCIDENTAL COST.

42. CONTRACTOR SHALL CONTACT WITH SFPUC - UTILITY SERVICE AT (415)227-8529 HIEU DOAN FOR INSPECTION; TEN(10) DAYS ADVANCE NOTICE IS REQUIRED.

43. THE CONTRACTOR SHALL COORDINATE WITH SFMTA TRAFFIC SIGNAL SHOP AT (415)550-2736 TO COORDINATE PICK UP AND DELIVERY OF CONTROLLER CABINET. TEN (10) WORKING DAYS ADVANCE NOTICE REQUIRED. CONTRACTOR IS RESPONSIBLE FOR INSTALLING CABINET PER PG&E REQUIREMENTS BEFORE PG&E CONNECTION.

44. THE CONTRACTOR SHALL COORDINATE WITH PG&E VIA BHASKAR GOSWAMI OF SFPUC AT (415)554-3135 FOR SERVICE CONNECTIONS; TEN(10) WORKING DAYS ADVANCE NOTICE IS REQUIRED.

45. THE LUMINAIRE SHALL BE PROVIDED WITH NEMA PHOTO CONTROL RECEPTACLE AND TWIST LOCK PHOTOCELL, FUSE AND BACKLIGHT CUT-OFF.

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PHASE 1A STREET IMPROVEMENT PLANS
ELECTRICAL LEGEND - GENERAL NOTES
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
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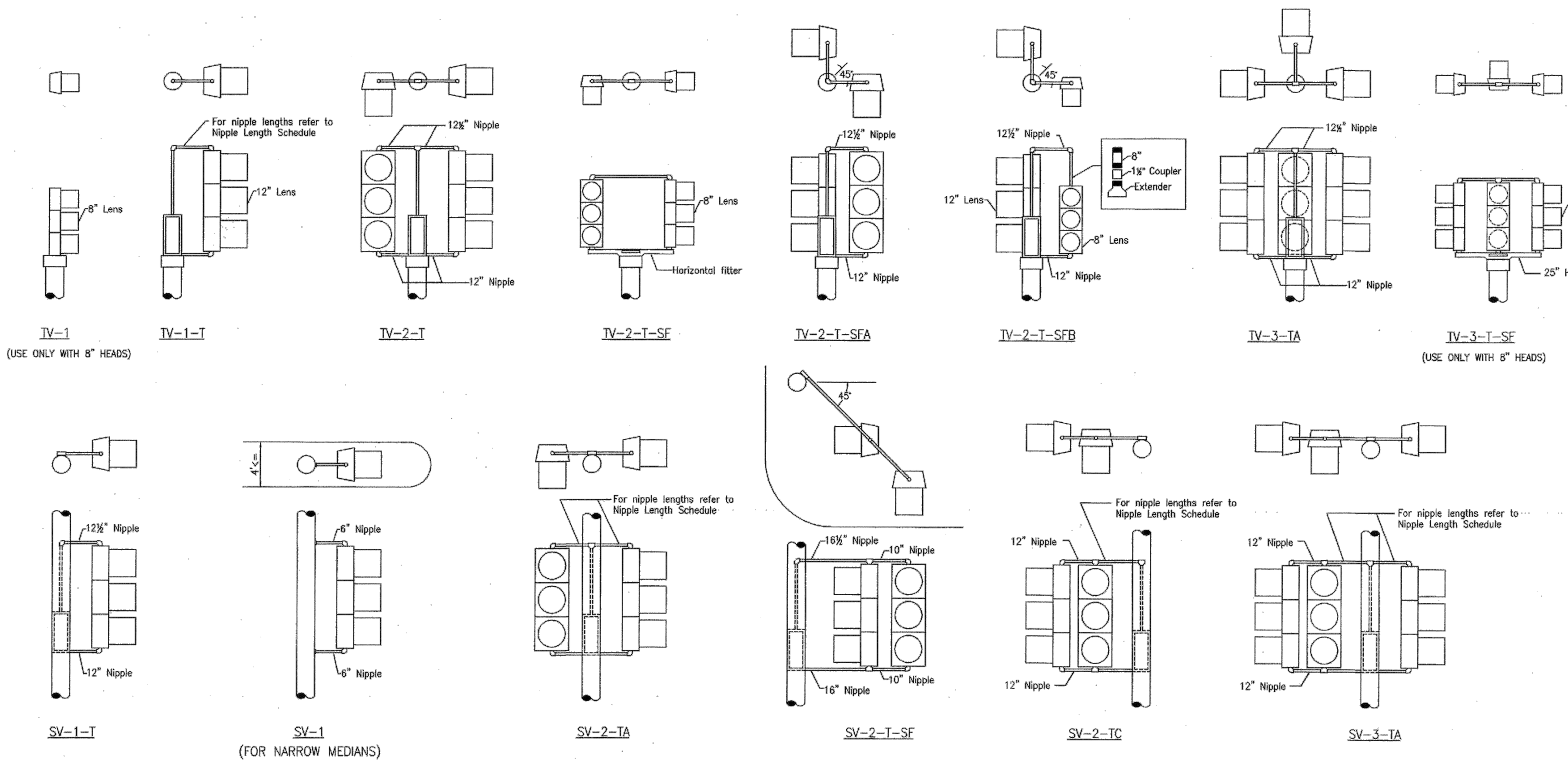
Approved: BS
Job No: 20090086

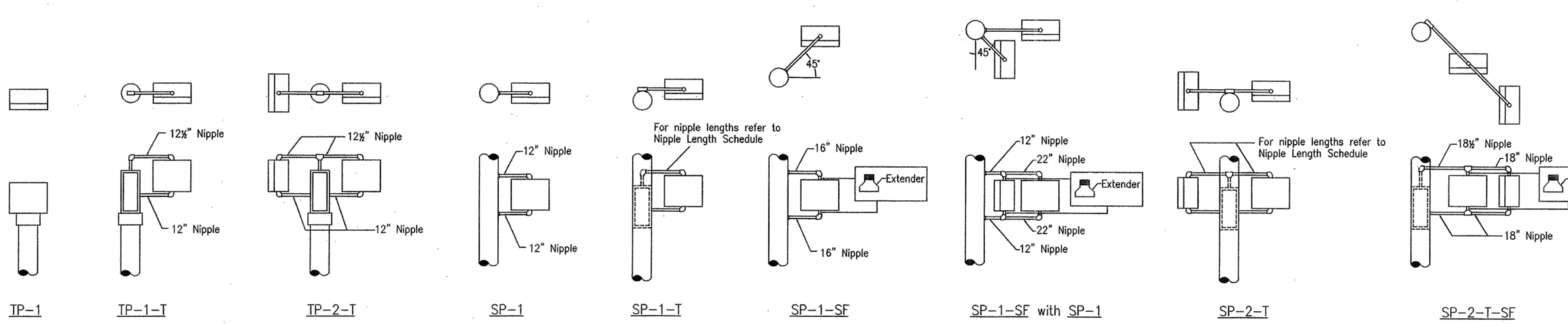
Drawing Number:
E1.02

DRAWING NAME: \\BKF-SJ\vol4\2009\20090086-15\ENG\Sheets\Phase 1A\E1.02 - General Notes.dwg (Layout)
PLOT TIME: 4-28-2017 4:25 PM PLOTTED BY: leea

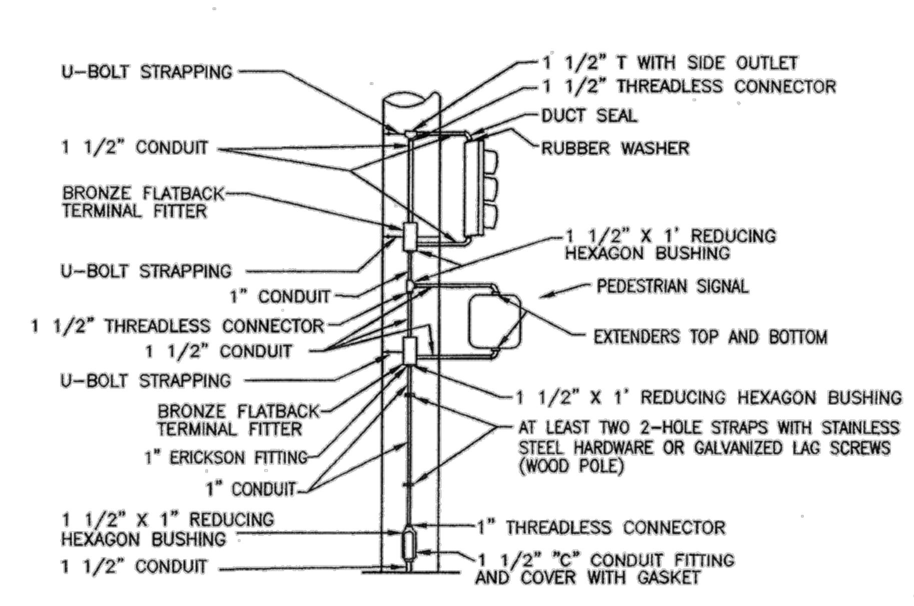
APPROVED SET FOR BOARD SUBMITTAL 05.01.17



VEHICULAR SIGNAL MOUNTINGS



PEDESTRIAN SIGNAL MOUNTINGS



SIGNAL HEAD MOUNTINGS
EXTERNAL CONDUIT DETAILS

NIPPLE LENGTH SCHEDULE

MOUNTING DETAIL	POLE DIAMETER	LENS TYPE	TOP NIPPLE LENGTH	BOTTOM NIPPLE LENGTH
SV-2-TA SV-3-TA SV-2-TC	If ≤8" and 8" Sections Otherwise		12½" 16½"	12" 16"
SP-1-T SP-2-T	4" TO 6"	Pedestrian	12½"	12"
SP-1-T SP-2-T	7" TO 8"	Pedestrian	14½"	14"
SP-1-T SP-2-T	>8"	Pedestrian	18½"	18"
TV-1-T		12" Sections or Combinations	12½"	12"

Notes: Combinations denote at lease one 12" lens on the signal head.
All dimension are expressed in inches.

NOTES:

1. Mountings shall be oriented to provide maximum horizontal clearance to adjacent roadway.

2. Bracket arms shall be long enough to permit proper alignment of signals and backplates.

3. See State of California Department of Transportation standard plans ES-3D and ES-3E for attachment fitting details (except pole plates).

4. All framing shall be 1-1/2 hot dip galvanized pipe.

5. Mounting details are for internally wired poles.

6. Mounting height is measured from the sidewalk to bottom of lower bracket nipple.

7. For side mounted signals, U-bolt clamp required for steel or concrete poles. Pole plate with lag screws for wood poles.

8. Framework plugs shall be galvanized steel.

9. For TV-2-T-SFA and TV-2-T-SFB mountings, the terminal compartment shall be oriented to face the nearest curb to provide for street access.

10. See State of California Department of Transportation Standard plans ES-3A and ES-3B for other types of signal head mounting details.

ABBREVIATIONS:

TP	Top mounted pedestrian signal
TV	Top mounted vehicular signal
SP	Side mounted pedestrian signal
SV	Side mounted vehicular signal
1,2,3,4	Number of signal heads (3 section unless otherwise indicated)
T	Terminal compartment
TA	Terminal compartment in configuration "A" (See Caltrans ES-3A)
SF	San Francisco Standard
SFA	San Francisco Standard in configuration "A"

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PHASE 1A STREET IMPROVEMENT PLANS
ELECTRICAL DETAILS - SIGNAL HEAD MOUNTING
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

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Scale: NONE
Design: TH
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Job No: 20090086

Revisions
No.

Drawing Number:
E1.03

DRAWING NAME: \\BKF-SJ\vol4\2009\20090086-15\ENG\Sheets\Phase 1A\E1.03 - Signal Mounting.dwg (Layout1)
PLOT TIME: 4-28-2017 4:25 PM PLOTTED BY: leeo

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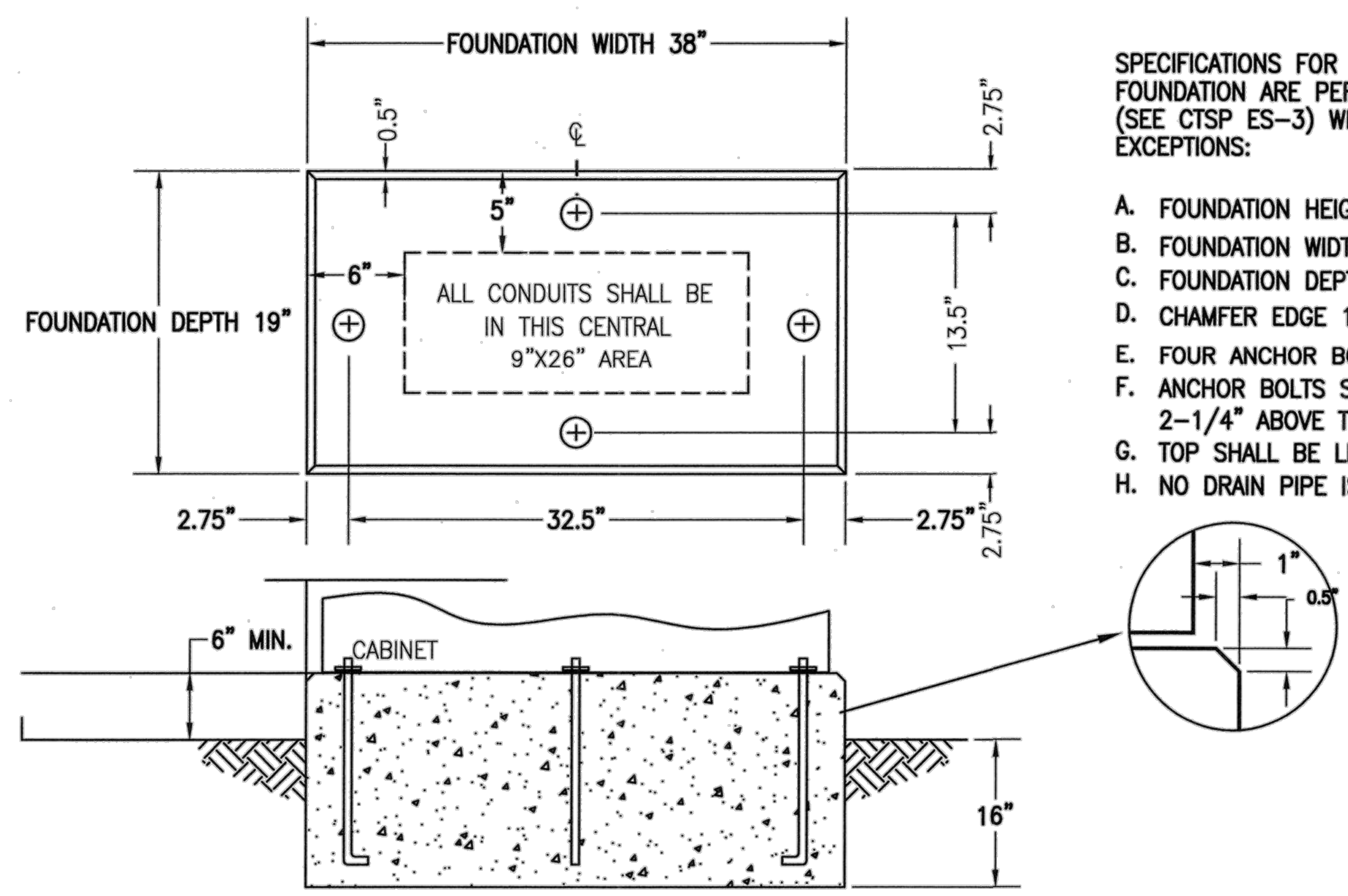


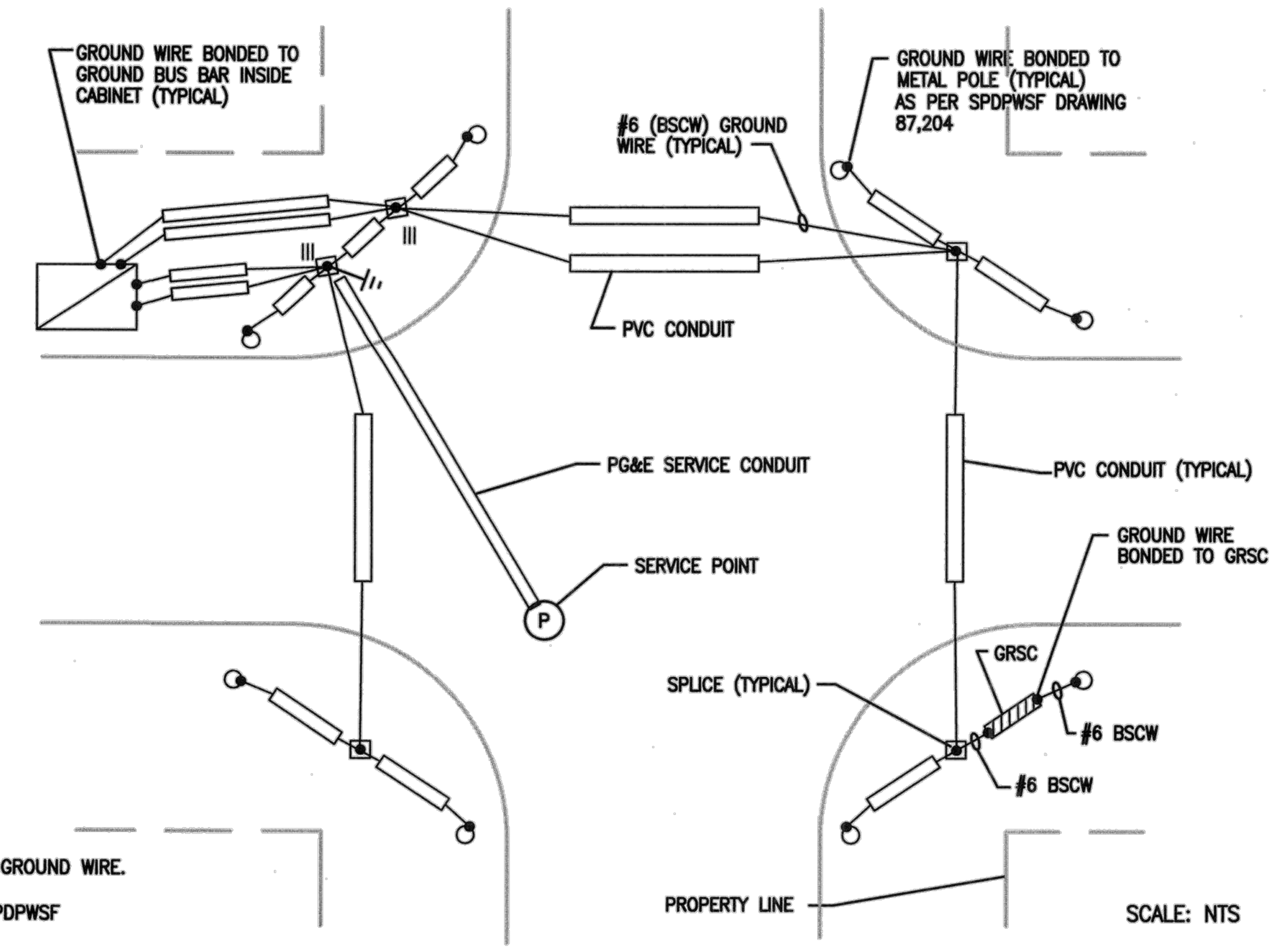
SPECIFICATIONS FOR THE 'M-SF' CABINET FOUNDATION ARE PER CALTRANS 'M' FOUNDATION (SEE CTSP ES-3) WITH THE FOLLOWING EXCEPTIONS:

A. FOUNDATION HEIGHT OF 22"
B. FOUNDATION WIDTH OF 38".
C. FOUNDATION DEPTH OF 19".
D. CHAMFER EDGE 1/2" X 1/2".
E. FOUR ANCHOR BOLTS AS SHOWN.
F. ANCHOR BOLTS SHALL EXTEND 2" TO 2-1/4" ABOVE TOP OF FOUNDATION.
G. TOP SHALL BE LEVEL WITH A SMOOTH FINISH
H. NO DRAIN PIPE IS REQUIRED.

"M-SF" CABINET FOUNDATION DETAIL

1
—

NTS



1. ALL PVC CONDUITS SHALL HAVE 1#6 (BSCW) GROUND WIRE.
2. SPLICING OF GROUND WIRE SHALL BE PER SPDPWSF DRAWING 87,204
3. THE CONTRACTOR SHALL COORDINATE WITH PG&E VIA BHASKAR GOSWAMI OF SFPUC AT (415) 554-3135 FOR SERVICE CONNECTIONS; TEN WORKING DAYS ADVANCE NOTICE IS REQUIRED.
4. SERVICE CONNECTIONS SHALL BE MADE PER SPDPWSF #87,203. IF THE PLAN REQUIRES FUSING IN A PULL BOX FOR IC SERVICE, THIS IS THE POINT THE NEUTRAL IS BONDED TO GROUND.

GROUNDING LAYOUT DETAIL

2
—

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PHASE 1A STREET IMPROVEMENT PLANS
ELECTRICAL DETAILS

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — WANG — No. C57066 — Exp. 6/30/17 — CIVIL — STATE OF CALIFORNIA

No.	Revisions

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E1.04

DRAWING NAME: \\BKF-SJ\vol4\2009\20090086-15\ENG\Sheets\Phase 1A\E1.04 - Electrical Details.dwg (Layout1)
PLOT TIME: 4-28-2017 4:26 PM PLOTTED BY: leea

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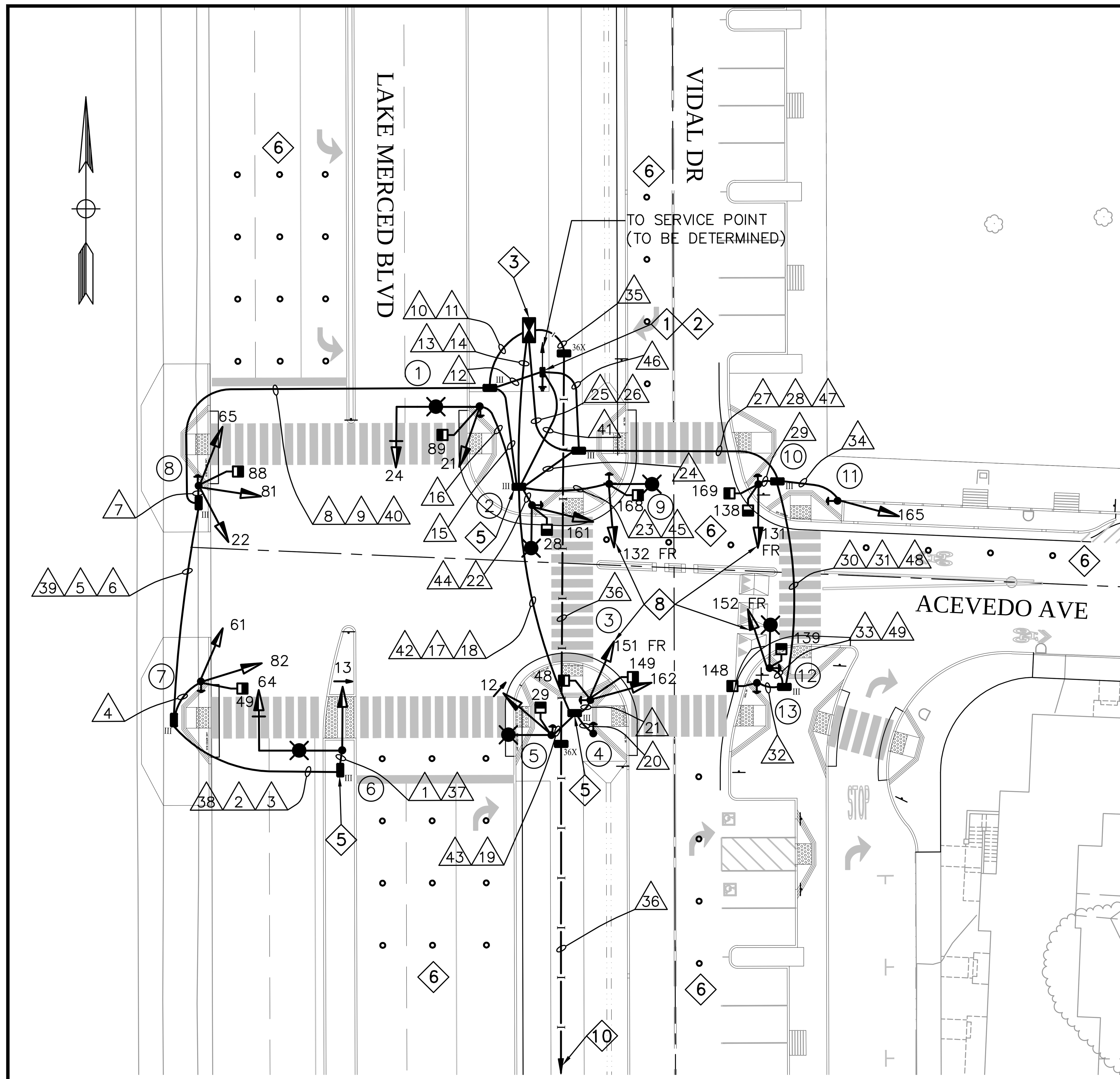
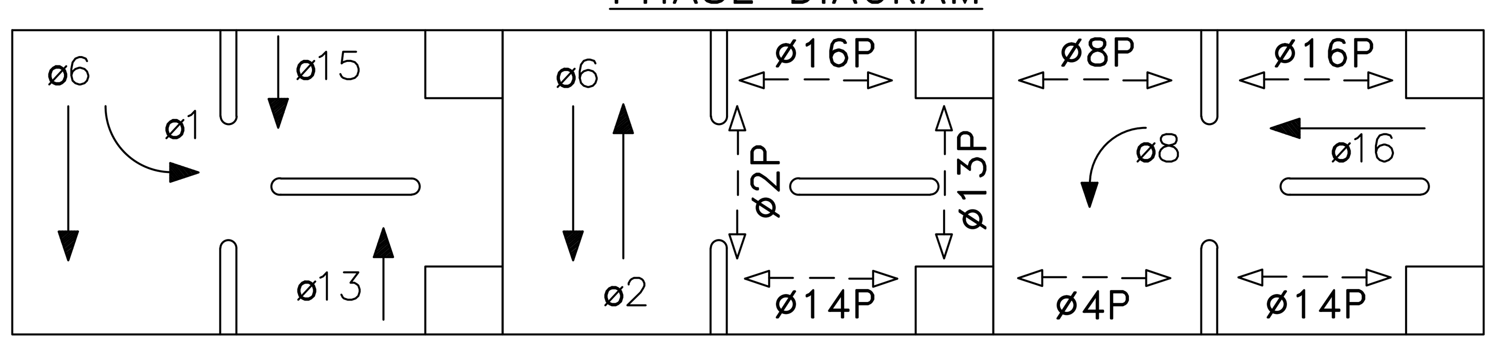


POLE AND EQUIPMENT SCHEDULE

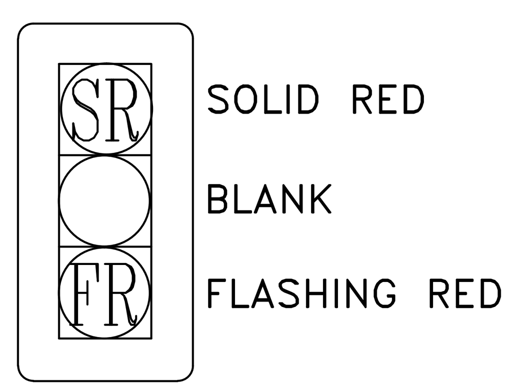
POLE No.	TYPE OF POLE	LUMINAIRE VOLTAGE/ WATTAGE	VEHICLE SIGNAL No.	VEHICLE SIGNAL TYPE	VEHICLE SIGNAL MOUNTING	VEHICLE SIGNAL VISORS	VEHICLE SIGNAL LOUVERS	PEDESTRIAN SIGNAL No.	PEDESTRIAN SIGNAL TYPE 9	PEDESTRIAN SIGNAL MOUNTING	REMARKS 4
1	17-3-100 WITH 20' MASTARM & 6' LUMINAIRE ARM	120/240V 130W	21 24	3S12" 3S12"	SV-1-T MAS	T T		89	1S-COUNT	SP-1	APS-2W BACKPLATE FOR SIGNAL 24
2	CITY STANDARD WITH 6' LUMINAIRE ARM	120/240V 130W	161	3S12"	SV-1-T	T		28	1S-COUNT	SP-1	APS-2W
3	1-A(10')		151 162	3S12"FR 3S12"	TV-2-T	T T		48 149	1S-COUNT 1S-COUNT	SP-2-T	APS-2W
4	PPBP										APS-2W
5	CITY STANDARD WITH 6' LUMINAIRE ARM	120/240V 130W	12	3S12"LA	SV-1-T	T		29	1S-COUNT	SP-1	APS-2W
6	17-3-100 WITH 20' MASTARM & 6' LUMINAIRE ARM	120/240V 130W	13 64	3S12"LA 3S12"	SV-1-T MAS	T T					BACKPLATE FOR SIGNAL 64
7	1-A(13')		61 82	3S12" 3S12"	TV-2-T	T T		49	1S-COUNT	SP-1	APS-2W
8	1-A(13')		22 65 81	3S12" 3S12" 3S12"	TV-3-TA	T T T		88	1S-COUNT	SP-1	APS-2W
9	CITY STANDARD WITH 6' LUMINAIRE ARM	120/240V 130W	132	3S12"FR	SV-1-T	T		168	1S-COUNT	SP-1	APS-2W
10	1-A(10')		131	3S12"FR	SV-1-T	T		138 169	1S-COUNT 1S-COUNT	SP-2-T	APS-2W
11	1-A(10')		165	3S12"	TV-1-T	T					APS-2W
12	CITY STANDARD WITH 6' LUMINAIRE ARM	120/240V 130W	152	3S12"FR	SV-1-T	T		139	1S-COUNT	SP-1	APS-2W
13	1-A(7')							148	1S-COUNT	TP-1	APS-2W

* INSTALL LED LUMINAIRE(S). LED TYPE SHALL BE EVOLVE LED ROADWAY LIGHT BY GE, MODEL No. ERS2-0-E3-D1-7-40-4-GRAY-L.

PHASE DIAGRAM



ø13/ø15 = FLASHING RED ONLY OPERATION



DETAIL A

PHASE SEQUENCE

G	Y	R			LAKE MERCED BLVD THROUGH AND LEFT TURN (SB) – ø1, ø6, ø13, & ø15
G			Y	R	LAKE MERCED BLVD (NB & SB) – ø2 & ø6
WM			FRH	RH	PED XING VIDAL DR AND ACEVEDO AVE (SS, WS, ES, & NS) – ø2P, ø13P, ø14P, & ø16P
G			Y	R	ACEVEDO AVE (WB) – ø8 & ø16
WM			FRH	RH	PED XING LAKE MERCED BLVD (WS & ES) – ø4P & ø8P

DETAIL NOTES:

1. CONTROLLER SERVICE POINT IS A PG&E SERVICE BOX (TO BE DETERMINED). CONTRACTOR SHALL COORDINATE WITH PG&E THROUGH SFPUC (BHASKAR GOSWAMI (415) 554-3135) FOR FINAL POWER SERVICE CONNECTION. TEN DAYS NOTICE IS REQUIRED.
2. CONTRACTOR SHALL PROVIDE 40A INLINE FUSE AND FUSE HOLDER FOR TRAFFIC SIGNAL SERVICE DISCONNECT AND 30A INLINE FUSE & FUSE HOLDER FOR STREETLIGHT DISCONNECT IN FIRST PULL BOX NEXT TO THE NEW PG&E SERVICE.
3. CONTRACTOR TO INSTALL CITY FURNISHED INTERSECTION TRAFFIC SIGNAL CONTROLLER CABINET AND BATTERY BACK-UP SYSTEM.
4. CONTRACTOR TO INSTALL APS WIRING AS INDICATED IN CONDUIT AND WIRING SCHEDULE. CITY FORCES TO FURNISH, INSTALL AND ACTIVATE APS BUTTONS ON POLES AS SHOWN ON INTERSECTION DRAWING AND AS INDICATED IN POLE & EQUIPMENT SCHEDULE.
5. F/I 10A INLINE FUSE AND FUSE HOLDER FOR STREETLIGHT.
6. CITY FORCES TO INSTALL SENSYS WIRELESS SENSORS.
7. PEDESTRIAN PHASES SHALL HAVE A LEADING PEDESTRIAN INTERVAL OF 5 SECONDS.
8. INSTALL 3-SECTION SIGNAL HEAD WITH SOLID RED (SR) AND FLASHING RED (FR). SEE DETAIL A ON THIS SHEET.
9. CONTRACTOR TO INSTALL CITY-FURNISHED ONE-SECTION LED PEDESTRIAN COUNTDOWN SIGNAL MODULE IN CONTRACTOR FURNISHED ONE-SECTION PEDESTRIAN SIGNAL HOUSING.
10. INSTALL 4-2" SIGNAL INTERCONNECT CONDUITS AND SIGNAL INTERCONNECT CABLE TO THE INTERSECTION OF LAKE MERCED BOULEVARD AND HIGUERA AVENUE (±600'). INSTALL 36X PULL BOXES EVERY 200'.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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PHASE 1A STREET IMPROVEMENT PLANS
TRAFFIC SIGNAL INSTALLATION PLAN - LAKE MERCERD BLVD & ACEVEDO AVE
SAN FRANCISCO, SAN FRANCISCO COUNTY, CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JIPEI WANG
No. 57006
Exp. 6/30/17
CIVIL
STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
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Approved: BS
Job No: 20090086

Drawing Number:
E1.05

DRAWING NAME: \\BKF-SJ\vol4\2009\20090086-15\ENG\Sheets\Phase 1A\E1.05 - MercedAcevedoSIG.dwg (Layout1)
PLOT TIME: 4-28-2017 4:28 PM PLOTTED BY: leea

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

CONDUCTOR AND CONDUIT SCHEDULE

CONDUIT RUN NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
CONDUIT SIZE (INCH)		2	2	2	2	2	2	2	2	2	3	2	2	3	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2-2	4-2	2	2	2	2	2	2	2	2	2	2	2	2	2
				SP			SP			SP		SP			SP	SP			SP							SP		SP		SP			SP				HDPE	HDPE	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS
NOTES																																																	
	VEHICLE SIGNAL 13	3	3			3			3		3	7																																						
	VEHICLE SIGNAL 64	3	3			3			3		3																																						
	VEHICLE SIGNAL 61				3	3			3		3																																						
	VEHICLE SIGNAL 82				3	3			3		3																																						
	PED SIGNAL 49				2	2			2		2																																						
	APS PPB FOR XING LAKE MERCED BLVD ON POLE 7				2	2			2		2																																						
	VEHICLE SIGNAL 22							3	3		3																																						
	VEHICLE SIGNAL 65							3	3		3																																						
	VEHICLE SIGNAL 81							3	3		3																																						
	PED SIGNAL 88							2	2		2																																						
	APS PPB FOR XING LAKE MERCED BLVD ON POLE 8							2	2		2																																						
	VEHICLE SIGNAL 21													3			3																																						
	VEHICLE SIGNAL 22													3			3																																						
	PED SIGNAL 89													2			2																																						
	APS PPB FOR XING LAKE MERCED BLVD ON POLE 1													2			2																																						
	VEHICLE SIGNAL 12													3				3		3																																
	PED SIGNAL 29													2				2		2																																
	APS PPB FOR XING LAKE MERCED BLVD ON POLE 5													2				2		2																																
	APS PPB FOR XING ACEVEDO AVE ON POLE 4													2				2			2																													
	VEHICLE SIGNAL 151													3				3				3																												
	VEHICLE SIGNAL 162													3				3				3																												
	PED SIGNAL 48													2				2				2																												
	PED SIGNAL 149													2				2				2																												
	APS PPB FOR XING ACEVEDO AVE ON POLE 3													2				2				2																												
	VEHICLE SIGNAL 161													3										3																											
	PED SIGNAL 28													2										2																											
	APS PPB FOR XING ACEVEDO AVE ON POLE 2													2										2																											
	VEHICLE SIGNAL 132													3											3																										
	PED SIGNAL 168													2											2																										
	APS PPB FOR XING VIDAL AVE ON POLE 9													2											2																										
	VEHICLE SIGNAL 131																									3		3		3																					
	PED SIGNAL 138																									2		2		2																					
	PED SIGNAL 169																									2		2		2																					
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	PED SIGNAL 148																									2		2			2		2																		
	APS PPB FOR XING VIDAL AVE ON POLE 13																									2		2			2		2																		
	VEHICLE SIGNAL 152																									3		3			3			3																	
	PED SIGNAL 139																									2		2			2			2																	
	APS PPB FOR XING ACEVEDO AVE ON POLE 12																									2		2			2			2																	
	VEHICLE SIGNAL 165																									3		3							3																
	APS PPB FOR XING ACEVEDO AVE ON POLE 11																									2		2							2																
	#14 NEUTRAL	2			2			2								2			2	2	2	2	2						2			2	2	2															
	#14 SPARE		3			3			3		3			3				3								3		3			3																		
	TOTAL 14 WIRES	8	9		12	19		15	32		32			48			12	24		9	4	14	9	9		28		28		11	14		6	9	7															
	#10 WIRES NEUTRAL		1			1			1		1			1				1								1		1			1																		
	#10 WIRES STREET LIGHT																																					2						2	2	2				2
	#8 WIRES STREET LIGHT																																						2	2	2	2	2				2	2	2	
	#8 WIRES (120 V SERVICE)												2																																				
	INTERCONNECT 12C CABLE																																					2	2															

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PHASE 1A STREET IMPROVEMENT PLANS
CONDUIT & WIRING SCHEDULE - LAKE MERCED BLVD & ACEVEDO AVE
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
CIVIL
6/30/17

No.	Revisions

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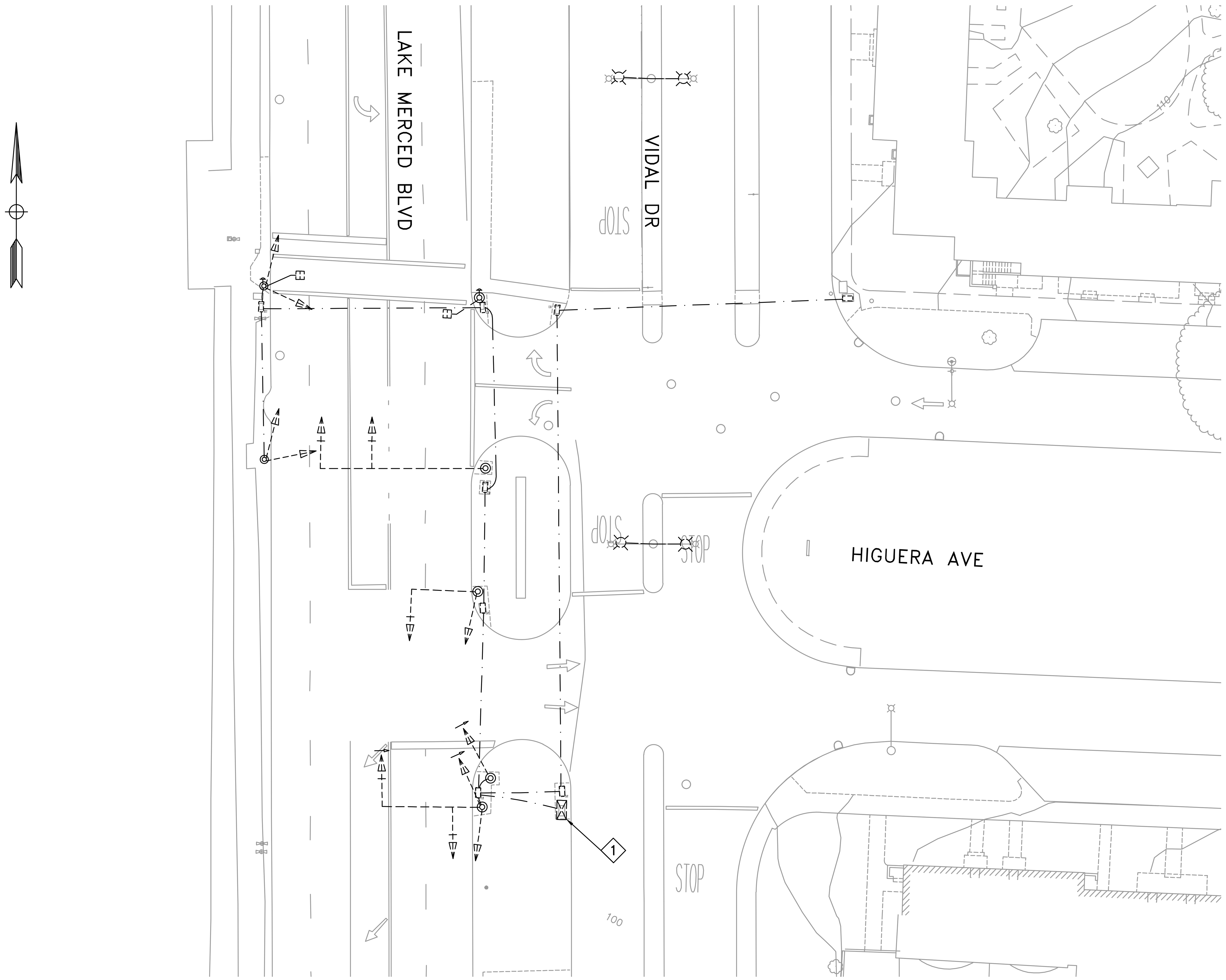
DRAWING NAME: \\BKF-SJ\vol4\2009\20090086-15\ENG\Sheets\Phase 1A\E1.06 - MercedAcevedoSIG-Sched.dwg (Layout1)

APPROVED SET FOR BOARD SUBMITTAL 05.01.17



NOTES:

1. CONTRACTOR SHALL MAINTAIN THE EXISTING SIGNAL OPERATION UNTIL NEW SIGNAL INFRASTRUCTURE IS IN PLACE.

2. CONTRACTOR SHALL ABANDON ALL EXISTING CONDUITS.

DETAIL NOTE:

1 CONTRACTOR TO REMOVE AND SALVAGE EXISTING INTERSECTION CONTROLLER CABINET AND DELIVER TO CITY TRAFFIC SIGNAL SHOP.

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

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PHASE 1A STREET IMPROVEMENT PLANS
EXISTING TRAFFIC SIGNAL PLAN - LAKE MERCED BLVD & HIGUERA AVE
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
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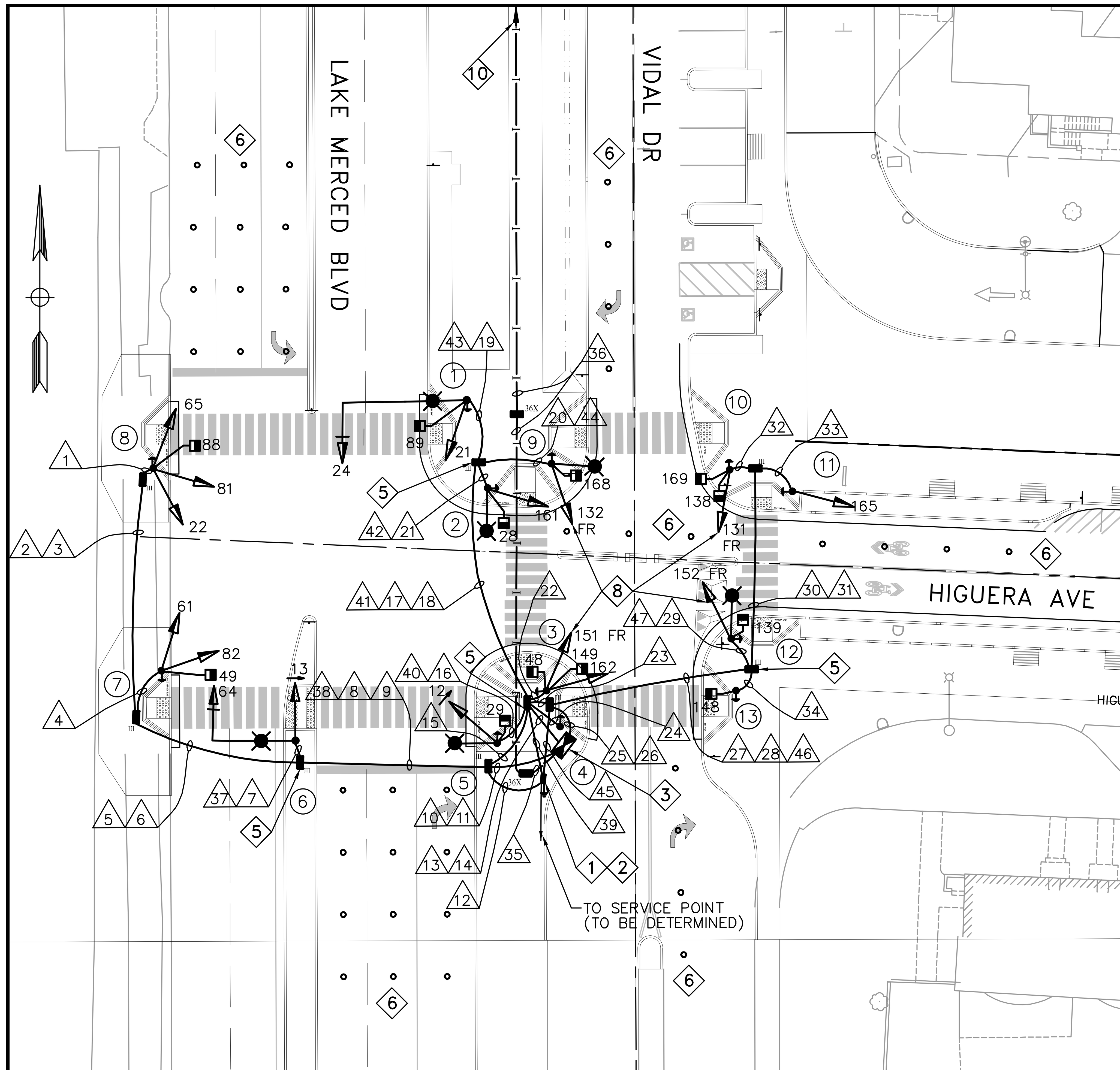
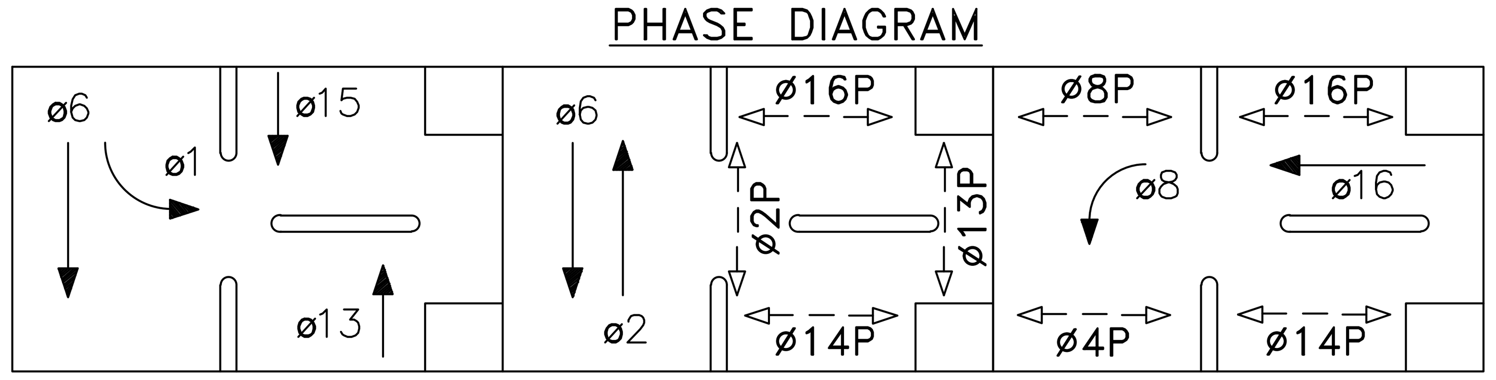
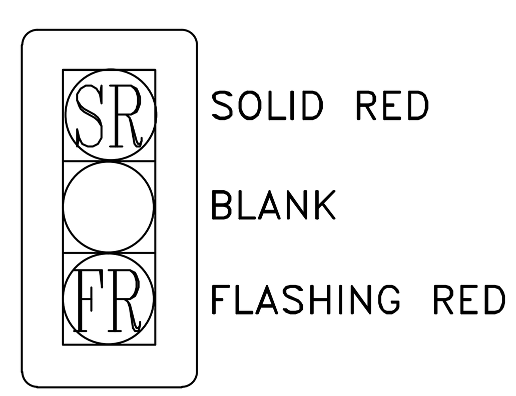


PHASE DIAGRAM



ø13/ø15 = FLASHING RED ONLY OPERATION



DETAIL A

PHASE SEQUENCE

G	Y	R		LAKE MERCED BLVD THROUGH AND LEFT TURN (SB) – ø1, ø6, ø13, & ø15
G			Y R	LAKE MERCED BLVD (NB & SB) – ø2 & ø6
WM		FRH	RH	PED XING VIDAL DR AND HIGUERA AVE (SS, WS, ES, & NS) – ø2P, ø13P, ø14P, & ø16P
G			Y R	HIGUERA AVE (WB) – ø8 & ø16
WM		FRH	RH	PED XING LAKE MERCED BLVD (WS & ES) – ø4P & ø8P

POLE AND EQUIPMENT SCHEDULE

POLE No.	TYPE OF POLE	LUMINAIRE VOLTAGE/ WATTAGE	VEHICLE SIGNAL No.	TYPE	MOUNTING	VISORS	LOUVERS	PEDESTRIAN SIGNAL No.	TYPE 9	MOUNTING	REMARKS 4
1	19-4-100 WITH 30' MASTARM & 6' LUMINAIRE ARM	120/240V 130W	21 24	3S12" 3S12"	SV-1-T MAS	T T		89	1S-COUNT	SP-1	APS-2W BACKPLATE FOR SIGNAL 24
2	CITY STANDARD WITH 6' LUMINAIRE ARM	120/240V 130W	161	3S12"	SV-1-T	T		28	1S-COUNT	SP-1	APS-2W
3	1-A(10')		151 162	3S12"FR 3S12"	TV-2-T	T		48 149	1S-COUNT 1S-COUNT	SP-2-T	APS-2W
4	PPBP										APS-2W
5	CITY STANDARD WITH 6' LUMINAIRE ARM	120/240V 130W	12	3S12"LA	SV-1-T	T		29	1S-COUNT	SP-1	APS-2W
6	17-3-100 WITH 20' MASTARM & 6' LUMINAIRE ARM	120/240V 130W	13 64	3S12"LA 3S12"	SV-1-T MAS	T T					BACKPLATE FOR SIGNAL 64
7	1-A(13')		61 82	3S12" 3S12"	TV-2-T	T T		49	1S-COUNT	SP-1	APS-2W
8	1-A(13')		22 65 81	3S12" 3S12" 3S12"	TV-3-TA	T T T		88	1S-COUNT	SP-1	APS-2W
9	CITY STANDARD WITH 6' LUMINAIRE ARM	120/240V 130W	132	3S12"FR	SV-1-T	T		168	1S-COUNT	SP-1	APS-2W
10	1-A(7')		131	3S12"FR	SV-1-T	T		138 169	1S-COUNT 1S-COUNT	SP-2-T	APS-2W
11	1-A(10')		165	3S12"	TV-1-T	T					APS-2W
12	CITY STANDARD WITH 6' LUMINAIRE ARM	120/240V 130W	152	3S12"FR	SV-1-T	T		139	1S-COUNT	SP-1	APS-2W
13	1-A(7')							148	1S-COUNT	TP-1	APS-2W

DETAIL NOTES:

1. CONTROLLER SERVICE POINT IS A PG&E SERVICE BOX (TO BE DETERMINED). CONTRACTOR SHALL COORDINATE WITH PG&E THROUGH SFPUC (BHASKAR GOSWAMI (415) 554-3135) FOR FINAL POWER SERVICE CONNECTION. TEN DAYS NOTICE IS REQUIRED.
2. CONTRACTOR SHALL PROVIDE 40A INLINE FUSE AND FUSE HOLDER FOR TRAFFIC SIGNAL SERVICE DISCONNECT AND 30A INLINE FUSE & FUSE HOLDER FOR STREETLIGHT DISCONNECT IN FIRST PULL BOX NEXT TO THE NEW PG&E SERVICE.
3. CONTRACTOR TO INSTALL CITY FURNISHED INTERSECTION TRAFFIC SIGNAL CONTROLLER CABINET AND BATTERY BACK-UP SYSTEM.
4. CONTRACTOR TO INSTALL APS WIRING AS INDICATED IN CONDUIT AND WIRING SCHEDULE. CITY FORCES TO FURNISH, INSTALL AND ACTIVATE APS BUTTONS ON POLES AS SHOWN ON INTERSECTION DRAWING AND AS INDICATED IN POLE & EQUIPMENT SCHEDULE.
5. F/I 10A INLINE FUSE AND FUSE HOLDER FOR STREETLIGHT.
6. CITY FORCES TO INSTALL SENSYS WIRELESS SENSORS.
7. PEDESTRIAN PHASES SHALL HAVE A LEADING PEDESTRIAN INTERVAL OF 5 SECONDS.
8. INSTALL 3-SECTION SIGNAL HEAD WITH SOLID RED (SR) AND FLASHING RED (FR). SEE DETAIL A ON THIS SHEET.
9. CONTRACTOR TO INSTALL CITY-FURNISHED ONE-SECTION LED PEDESTRIAN COUNTDOWN SIGNAL MODULE IN CONTRACTOR FURNISHED ONE-SECTION PEDESTRIAN SIGNAL HOUSING.
10. INSTALL 4-2" SIGNAL INTERCONNECT CONDUITS AND SIGNAL INTERCONNECT CABLE TO THE INTERSECTION OF LAKE MERCED BOULEVARD AND ACEVEDO AVENUE (±600'). INSTALL 36X PULL BOXES EVERY 200'.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)
BKF
ENGINEERS / SURVEYORS / PLANNERS

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
TRAFFIC SIGNAL INSTALLATION PLAN - LAKE MERCED BLVD & HIGUERA AVE

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER JIPEI WANG No. 57096 Exp. 6/30/17 CIVIL STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
E1.08

DRAWING NAME: \\BKF-SJ\vol4\2009\20090086-15\ENG\Sheets\Phase 1A\E1.08 - Lake Merced_Higuera.dwg (Layout1)

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

CONDUCTOR AND CONDUIT SCHEDULE

CONDUIT RUN NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
CONDUIT SIZE (INCH)		2	2	2	2	2	2	2	2	2	3	2	3	3	2	2	2	2	2	2	2	2	2	2	2
				SP			SP			SP		SP			SP	SP			SP					SP	
NOTES																									
	VEHICLE SIGNAL 22	3	3			3			3		3														
	VEHICLE SIGNAL 65	3	3			3			3		3														
	VEHICLE SIGNAL 81	3	3			3			3		3														
	PED SIGNAL 88	2	2			2			2		2														
	APS PPB FOR XING LAKE MERCED BLVD ON POLE 8	2	2			2			2		2														
	VEHICLE SIGNAL 61				3	3			3		3														
	VEHICLE SIGNAL 82				3	3			3		3														
	PED SIGNAL 49				2	2			2		2														
	APS PPB FOR XING LAKE MERCED BLVD ON POLE 7				2	2			2		2														
	VEHICLE SIGNAL 13							3	3		3														
	VEHICLE SIGNAL 64							3	3		3														
	VEHICLE SIGNAL 12													3			3								
	PED SIGNAL 29													2			2								
	APS PPB FOR XING LAKE MERCED BLVD ON POLE 5													2			2								
	VEHICLE SIGNAL 21													3				3		3					
	VEHICLE SIGNAL 24													3				3		3					
	PED SIGNAL 89													2				2		2					
	APS PPB FOR XING LAKE MERCED BLVD ON POLE 1													2				2		2					
	VEHICLE SIGNAL 132													3				3			3				
	PED SIGNAL 168													2				2			2				
	APS PPB FOR XING VIDAL AVE ON POLE 9													2				2			2				
	VEHICLE SIGNAL 161													3				3				3			
	PED SIGNAL 28													2				2				2			
	APS PPB FOR XING HIGUERA AVE ON POLE 2													2				2				2			
	VEHICLE SIGNAL 131													3									3		
	VEHICLE SIGNAL 162													3									3		
	PED SIGNAL 48													2									2		
	PED SIGNAL 149													2									2		
	APS PPB FOR XING HIGUERA AVE ON POLE 3													2									2		
	APS PPB FOR XING HIGUERA AVE ON POLE 4													2											2
	VEHICLE SIGNAL 152																								
	PED SIGNAL 139																								
	APS PPB FOR XING HIGUERA AVE ON POLE 12																								
	VEHICLE SIGNAL 131																								
	PED SIGNAL 138																								
	PED SIGNAL 169																								
	APS PPB FOR XING VIDAL AVE ON POLE 10																								
	VEHICLE SIGNAL 165																								
	APS PPB FOR XING HIGUERA AVE ON POLE 11																								
	PED SIGNAL 148																								
	APS PPB FOR XING VIDAL AVE ON POLE 13																								
	#14 NEUTRAL	2			2			2									2			2	2	2	2		2
	#14 SPARE		3			3			3		3			3				3							
	TOTAL 14 WIRES	15	16		12	24		8	30		30			48			9	27		12	9	9	14		4
	#10 WIRES NEUTRAL		1			1			1		1			1				1							
	#10 WIRES STREET LIGHT																								
	#8 WIRES STREET LIGHT												2												
	#8 WIRES (120 V SERVICE)												2												
	INTERCONNECT 12C CABLE																								

CONDUIT RUN NUMBER		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
CONDUIT SIZE (INCH)		3	2	2	2	2	2	2	2	2	2	2-2	4-2	2	2	2	2	2	2	2	2	2	2	2
			SP		SP			SP				HDPE	HDPE	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS
NOTES																								
	VEHICLE SIGNAL 22																							
	VEHICLE SIGNAL 65																							
	VEHICLE SIGNAL 81																							
	PED SIGNAL 88																							
	APS PPB FOR XING LAKE MERCED BLVD ON POLE 8																							
	VEHICLE SIGNAL 61																							
	VEHICLE SIGNAL 82																							
	PED SIGNAL 49																							
	APS PPB FOR XING LAKE MERCED BLVD ON POLE 7																							
	VEHICLE SIGNAL 13																							
	VEHICLE SIGNAL 64																							
	VEHICLE SIGNAL 12																							
	PED SIGNAL 29																							
	APS PPB FOR XING LAKE MERCED BLVD ON POLE 5																							
	VEHICLE SIGNAL 21																							
	VEHICLE SIGNAL 24																							
	PED SIGNAL 89																							
	APS PPB FOR XING LAKE MERCED BLVD ON POLE 1																							
	VEHICLE SIGNAL 132																							
	PED SIGNAL 168																							
	APS PPB FOR XING VIDAL AVE ON POLE 9																							
	VEHICLE SIGNAL 161																							
	PED SIGNAL 28																							
	APS PPB FOR XING HIGUERA AVE ON POLE 2																							
	VEHICLE SIGNAL 131																							
	VEHICLE SIGNAL 162																							
	PED SIGNAL 48																							
	PED SIGNAL 149																							
	APS PPB FOR XING HIGUERA AVE ON POLE 3																							
	APS PPB FOR XING HIGUERA AVE ON POLE 4																							
	VEHICLE SIGNAL 152	3		3		3																		
	PED SIGNAL 139	2		2		2																		
	APS PPB FOR XING HIGUERA AVE ON POLE 12	2		2		2																		
	VEHICLE SIGNAL 131	3		3			3		3															
	PED SIGNAL 138	2		2			2		2															
	PED SIGNAL 169	2		2			2		2															
	APS PPB FOR XING VIDAL AVE ON POLE 10	2		2			2		2															
	VEHICLE SIGNAL 165	3		3			3			3														
	APS PPB FOR XING HIGUERA AVE ON POLE 11	2		2			2			2														
	PED SIGNAL 148	2		2							2													
	APS PPB FOR XING VIDAL AVE ON POLE 13	2		2							2													
	#14 NEUTRAL					2			2	2	2													
	#14 SPARE	3		3			3																	
	TOTAL 14 WIRES	28		28		9	17		11	7	6													
	#10 WIRES NEUTRAL	1		1			1																	
	#10 WIRES STREET LIGHT													2			2		2	2	2			2
	#8 WIRES STREET LIGHT														2	2		2				2	2	
	#8 WIRES (120 V SERVICE)																							
	INTERCONNECT 12C CABLE											2	2											

BKF
ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
CONDUIT & WIRING SCHEDULE - LAKE MERCED BLVD & HIGUERA AVE
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JIPEI WANG
No. 57006
Exp. 6/30/17
CIVIL
STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

No.	Revisions

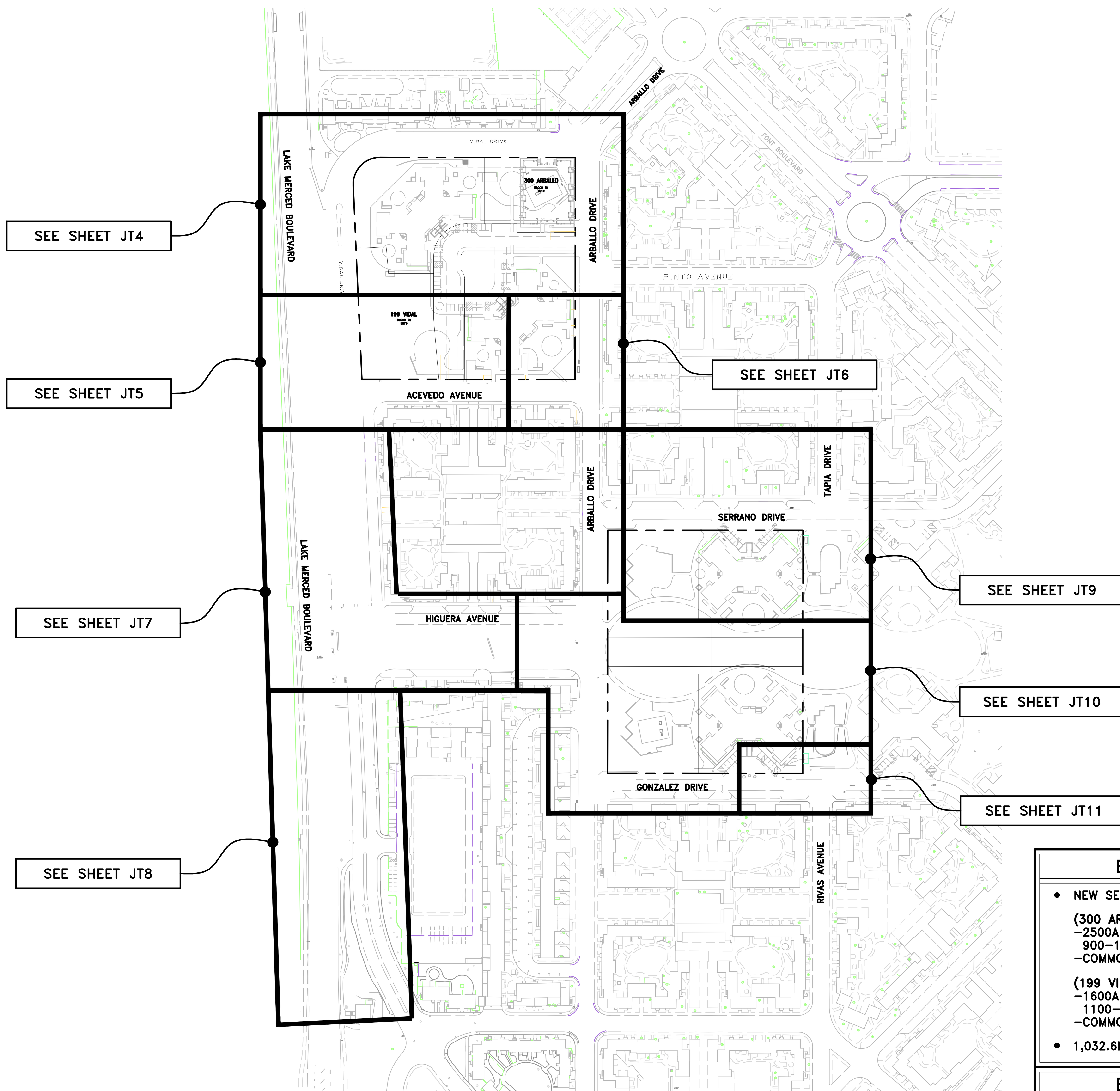
Date: 05/01/17
Scale: 1"=20'
Design: TH
Drawn: NL
Approved: BS
Job No: 20090086

Drawing Number:
E1.09

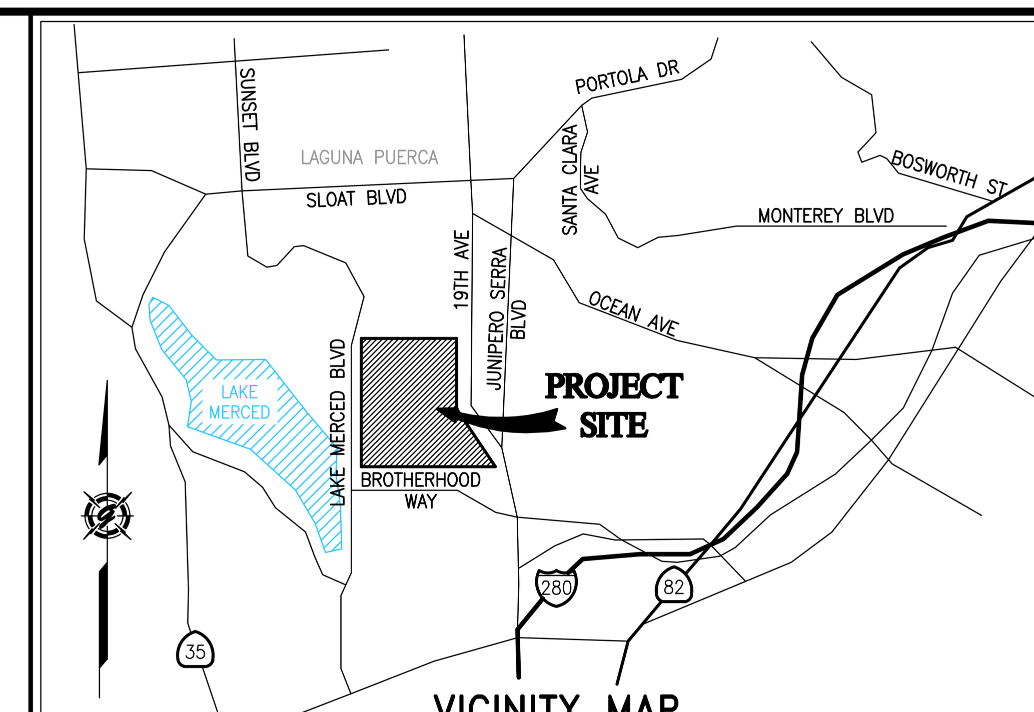
DRAWING NAME: \\BKF-SJ\vol4\2009\20090086-15\ENG\Sheets\Phase 1A\E1.09 - MercedHigueraSIG-Sched.dwg (Layout1)
PLOT TIME: 4-28-2017 4:31 PM PLOTTED BY: lead

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

BKF
PARKMERCED
PHASE 1A – B1 & B6
SAN FRANCISCO, CALIFORNIA



INDEX MAP



VICINITY MAP
NOT TO SCALE

PG&E PM NO.

ELECTRIC:

NEW BUSINESS:	31186026
TEMP SVC:	31186025
CAPACITY:	31172377
T-GRAM:	31178471
WRO/RELOC:	31222514
WRO/BETTER:	31214060

GAS:

NEW BUSINESS:	31179643
RELOC:	

PROJECT TEAM CONTACTS

COMPANY:	CONTACT:	PHONE:
MAXIMUS REAL ESTATE PARTNERS	BILL McGIVEN	415–760–0885
BKF	BRIAN SCOTT	650–482–6335
BKF	TIM HEFFERNAN	650–482–6300
PG&E – SAN FRANCISCO	MIKE BALMY	415–695–3515
AT&T – SAN FRANCISCO	TIM LAPORTE	415–216–2280
CABLECOM, LLC – BURLINGGAME	MARK WHEELER	650–670–6008
DTIS – PUBLIC SAFETY	MIKE DENNING	415–550–2718
GIACALONE DESIGN SERVICES, INC.	DAVE CROWFOOT	925–467–1740

LATEST FILES RECEIVED

DESCRIPTION:	BY:	DATE:	STATUS:
GAS DESIGN	PG&E	03–02–16	90% EXHIBIT
ELECTRIC DESIGN	PG&E	04–08–16	PRELIMINARY
TELEPHONE LAYOUT	AT&T	03–23–16	INTENT REPLY
COMCAST CATV LAYOUT	CABLECOM	03–14–16	INTENT REPLY
WAVEBAND CATV LAYOUT	GDSI	12–10–15	INTENT REPLY
STREET LIGHT PLANS – PUBLIC	GDSI	08–10–16	
PUBLIC SAFETY LAYOUT	GDSI	08–10–16	
IMPROVEMENT PLANS (ELECTRONIC FILE)	BKF	02–15–17	CURRENT

A=Approved • ANS=Approved Not Signed • NA=Not Approved • F=First Submittal • SS=Second Submittal

B1: PROJECT DESCRIPTION & SCOPE

- NEW SERVICE TO (2) BUILDINGS CONSISTING OF 153 TOTAL UNITS

  (300 ARBALLO) BUILDING (1) BLOCK 01 – LOT 02 (89 UNITS)
  –2500A, 120/208V, 3ø 4W,
  900–1288 SF; (AVE. UNIT=900 SF)
  –COMMON AREA: 1800 SF & (NO RETAIL)

  (199 VIDAL) BUILDING (2) BLOCK 01 – LOT 03 (64 UNITS)
  –1600A, 120/208V, 3ø 4W,
  1100–1528 SF; (AVE. UNIT=1000 SF)
  –COMMON AREA: 1800 SF & (NO RETAIL)

- 1,032.6LF ± JOINT TRENCH RELOCATION ALONG ARBALLO & ACEVEDO DR.

B6: PROJECT DESCRIPTION & SCOPE

- NEW SERVICE TO (2) BUILDINGS CONSISTING OF 250 UNITS & PARKING STRUCTURE
- (455 SERRANO) (BLOCK 06–01) (125 RES UNIT METERS) – NORTH
  –2000A, 120/208V, 3ø 4W (RDP–A)
  –1000 SF AVG. EA. UNIT
- (455 SERRANO) (BLOCK 06–01) – NORTH
  –1200A, 277/480V, 3ø 4W (MDP–A HOUSE & GARAGE)
  –COMMON AREA: 4500 SF
- (850 GONZALEZ) (BLOCK 06–02) (125 RES UNIT METERS) – SOUTH
  –2000A, 120/208V, 3ø 4W (RDP–B)
  –1000 SF AVG. EA. UNIT
- (850 GONZALEZ) (BLOCK 06–02) – SOUTH
  –1000A, 277/480V, 3ø 4W (MDP–A HOUSE & GARAGE)
  –COMMON AREA: 4500 SF
- 2035 LF ± OF JOINT TRENCH RELOCATION ALONG HIGUENA, ARBALLO, SERRANO & GONZALEZ

E11965
EXP. 9/30/17
ELECTRICAL
STATE OF CALIFORNIA

SHEET INDEX

SHEET	DESCRIPTION
JT1	JOINT TRENCH COMPOSITE TITLE SHEET
JT2	JOINT TRENCH GENERAL NOTES & DETAILS
JT3–JT3B	JOINT TRENCH DETAILS & SECTIONS
JT4–JT11	JOINT TRENCH COMPOSITE PLAN
SL1–SL2	STREET LIGHTING TITLE SHEET
SL3–SL9	STREET LIGHTING SITE PLAN
PS1–PS4	PUBLIC SAFETY SITE PLAN

REVISIONS

SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE
DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

JOINT TRENCH COMPOSITE TITLE SHEET

BKF
PARKMERCED
PHASE 1A – B1 & B6
SAN FRANCISCO CALIFORNIA

PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: CVN
CHECKED BY: DC
SCALE: 1"=150'
JOB NUMBER: 14–193 B1 & B6
DATE LAST MODIFIED: 05–01–17
SHEET JT1
OF 13 SHEETS

LABOR & CONSTRUCTION RESPONSIBILITY

DEPT. OF TECHNOLOGY / PG&E ELECTRIC / PG&E GAS / TELEPHONE / CATV, WAVEBAND / CONTRACTOR

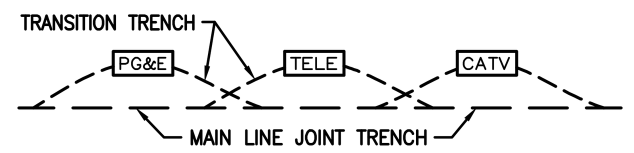
1. TRENCHING: EXCAVATE, BACKFILL AND COMPACT
2. GAS MATERIAL: SUPPLY, INSTALL
3. ELECTRIC CABLE: SUPPLY, INSTALL
4. ELECTRIC CONDUIT: SUPPLY, INSTALL
5. ELECTRIC SPLICE BOXES: EXCAVATE, SUPPLY, INSTALL
6. ELECTRIC TFMR. ENCLS: EXCAVATE, SUPPLY, INSTALL
7. ELECTRIC EQUIP. ENCLS.: EXCAVATE, SUPPLY, INSTALL
8. ELECTRIC TRANS. PADS: GRADE, SUPPLY, INSTALL
9. ELECTRIC SWITCH PADS: GRADE, SUPPLY, INSTALL
10. TELEPHONE CONDUIT: SUPPLY, INSTALL
11. TELEPHONE CABLE: SUPPLY, INSTALL
12. TELEPHONE SPLICE BOXES: EXCAVATE, SUPPLY, INSTALL
13. TELEPHONE INTER PADS: GRADE, SUPPLY, INSTALL
14. CATV CONDUITS: SUPPLY, INSTALL
15. CATV SPLICE BOXES: EXCAVATE, SUPPLY, INSTALL
16. WAVEBAND CONDUITS: SUPPLY, INSTALL
17. WAVEBAND SPLICE BOXES: EXCAVATE, SUPPLY, INSTALL
18: PUBLIC SAFETY CONDUITS: SUPPLY, INSTALL
19: PUBLIC SAFETY BOXES: EXCAVATE, SUPPLY, INSTALL
20: STREET LIGHTING: EXCAVATE, SUPPLY, INSTALL

THE ● ABOVE DESIGNATES THE WORK TO BE PERFORMED BY THE CONTRACTOR AND EACH UTILITY COMPANY.

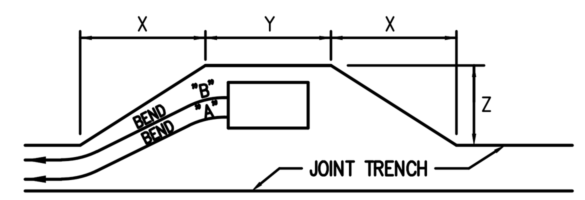
STREET LIGHTING NOTES

1. FOR STREET LIGHT LOCATIONS & CIRCUITRY SEE STREET LIGHT PLANS SHEETS SL1-SL9.
2. STREET LIGHT CONDUIT INSTALLED IN SEPARATE TRENCH. REFER TO J.T. COMPOSITE PLANS FOR LOCATION OF STREET LIGHT TRENCH.

JOINT TRENCH TRANSITION



1. CONTRACTOR TO EXCAVATE TRANSITIONS FROM MAIN-LINE TRENCH TO VAULTS AS REQUIRED BY EACH UTILITY.
2. TRANSITIONS NOT SHOWN ON COMPOSITE DRAWING FOR CLARITY.
3. CONTRACTOR TO INCLUDE COST OF TRANSITIONS IN VAULT EXCAVATION COST.

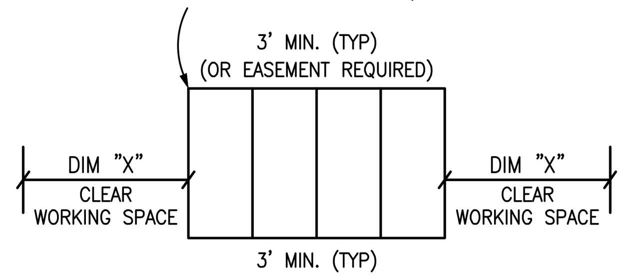


PRIMARY BOX SIZE	DISTANCE "X"	WHEN CONDUIT ENTERS BOX @ "A" "Y"	"Z"
3'x5'	24'	7'	5'
4'6"x8'6"	24'	11'	7'

PRIMARY BOX SIZE	DISTANCE "X"	WHEN CONDUIT ENTERS BOX @ "B" "Y"	"Z"
3'x5'	32'	7'	5'
4'6"x8'6"	32'	11'	7'

TYPICAL PRIMARY BOX EXCAVATION
USING A CONDUIT SYSTEM
NOT TO SCALE

PG&E PRIMARY ENCLOSURE CLEARANCES



DIM "X"

3' MIN. 3'0"x5'0" ENCLOSURES
4' MIN. 4'0"X6'6" ENCLOSURES
5' MIN. 4'6"X8'6"X6'0" ENCLOSURES

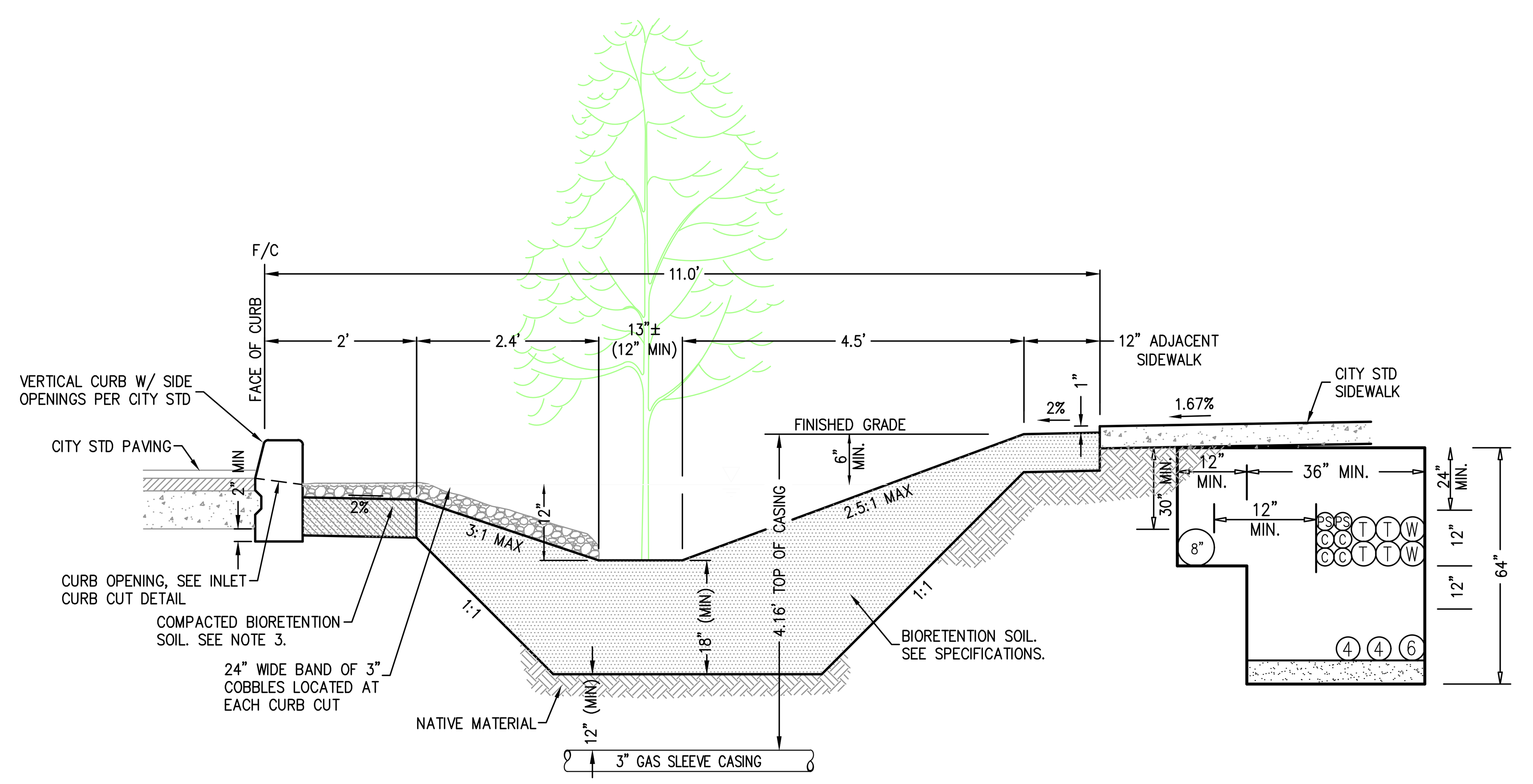
NOT TO SCALE

JOINT TRENCH CONTRACTORS NOTES

1. THE CONTRACTOR IS RESPONSIBLE TO HAVE ALL INSTALLATIONS INSPECTED AND APPROVED BY THE RESPECTIVE UTILITY COMPANY, MUNICIPALITY, OR SOILS ENGINEER PRIOR TO ANY BACK FILLING. (48 HOUR NOTICE)
2. CONTRACTOR WILL COMPLY WITH ALL LAWS, ORDINANCES AND REGULATIONS. CONTRACTOR SHALL BE FAMILIAR WITH O.S.H.A. INDUSTRIAL ORDERS AND SHALL CONDUCT HIS WORK ACCORDINGLY. WHEN WORKING AROUND ENERGIZED EQUIPMENT, THE UTILITY OWNER SHALL BE NOTIFIED TO SUPPLY THE APPROPRIATE MAN POWER AND SAFETY PRECAUTIONS AS NEEDED THE CONTRACTOR IS RESPONSIBLE FOR PUBLIC SAFETY AND TRAFFIC CONTROL MEASURES.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POINTS OF ACCESS THAT ARE AGREEABLE TO ADJACENT LAND USES AND TENANTS AT ALL TIMES.
4. **THE CONTRACTOR TO BE AWARE THAT THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE BASED UPON RECORD DATA MADE AVAILABLE BY PG&E, TELEPHONE, CATV, IMPROVEMENT PLANS AND CITY RECORDS. GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR THE INFORMATION SHOWN. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE PRECISE LOCATION OF ALL UNDERGROUND FACILITIES. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) (811) AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO START OF WORK.**
5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF CONSTRUCTION WITH THE RESPECTIVE UTILITY AGENCIES, ALLOWING 48 HOURS PRIOR TO THE NEED FOR INSTALLATIONS.
6. THE CONTRACTOR SHALL NOTIFY DEVELOPER 48 HOURS PRIOR TO THE NEED FOR SURVEY STAKING. THE CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION OF ALL CONSTRUCTION STAKING SET BY THE DEVELOPERS SURVEYORS AND WILL BE BACK CHARGED FOR ANY RE-STAKING THAT IS REQUIRED.
7. THE CONTRACTOR IS RESPONSIBLE TO PROTECT IN PLACE ALL EXISTING FACILITIES. EXCAVATION MAY BE REQUIRED OVER, UNDER OR ADJACENT TO EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO LOCATE, EXPOSE AND PROTECT ALL EXISTING FACILITIES. THE CONTRACTOR IS RESPONSIBLE TO BID THE WORK BASED ON THE REVIEW OF THE IMPROVEMENT PLANS IN CONJUNCTION WITH THESE PLANS.
8. **IT'S THE CONTRACTOR/DEVELOPER RESPONSIBILITY TO MAKE SURE THAT THE MOST CURRENT SET OF PLANS ARE BEING USED. CALL GIACALONE DESIGN SERVICES, INC. (925) 467-1740 TO VERIFY.**
9. THE CONTRACTOR SHALL COORDINATE ALL TIE-INS WITH UTILITY COMPANIES AS REQUIRED.
10. THE CONTRACTOR SHALL PROVIDE TIE-IN HOLE TO 12" BELOW EXISTING GAS MAIN FOR PG&E GAS TIE-IN(S) UNLESS OTHERWISE NOTED ON PLANS.
11. JOINT TRENCH FACILITIES SHALL MAINTAIN A MINIMUM OF 3' HORIZONTAL CLEARANCE FROM EDGE OF JOINT TRENCH TO EDGE OF "WET" UTILITIES WITH A MINIMUM 6" VERTICAL CLEARANCE WHEN CROSSING (U.O.N), THE CONTRACTOR SHALL REFER TO PG&E UO STANDARD S5453 FOR ADDITIONAL INFORMATION.
12. TRANSITION TRENCH FOR VAULTS/PEDESTALS NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL PROVIDE INCIDENTAL TRENCHING AS REQUIRED FOR CONDUIT/CABLE ROUTING INTO VAULTS/PEDESTALS. CONTRACTOR SHALL INCLUDE COST OF TRANSITION TRENCH IN VAULT/PEDESTAL EXCAVATION COST.
13. THE CONTRACTOR SHALL OFFSET VAULTS/PEDESTALS AS REQUIRED FOR CONDUIT/CABLE ROUTING.
14. THE CONTRACTOR SHALL FIELD ADJUST VAULTS/PEDESTALS AS REQUIRED TO AVOID CONFLICTS WITH DRIVEWAYS, SIDEWALKS, HANDICAP RAMPS, FIRE HYDRANTS, WATER & SEWER LATERALS, ETC.
15. SERVICE LOCATIONS SHOWN ARE APPROXIMATE, THE CONTRACTOR SHALL FIELD VERIFY THEIR EXACT LOCATION PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL FIELD ADJUST SERVICE STUB AND CROSSING LOCATIONS AS REQUIRED TO AVOID CONFLICTS WITH OTHER FACILITIES.
16. SERVICE COMPLETION TRENCHES SHALL BE INSTALLED AFTER CURB AND GUTTER, UNLESS DIRECTED OTHERWISE. THE CONTRACTOR SHALL COORDINATE ADDITIONAL MOVE-INS AS NECESSARY TO COMPLETE THE SERVICES TO EACH INDIVIDUAL UNIT WITH THE DEVELOPER, UTILITY COMPANIES & ALL INVOLVED AGENCIES. THE COST OF THESE MOVE-INS SHALL BE INCLUDED IN THE CONTRACTORS UNIT BID PRICE FOR TRENCHING.
17. EDGE OF SPLICE BOXES & PEDESTALS SHALL BE 5' FROM EDGE OF F.H. AND 3' FROM STREET LIGHT (TYP.) CONTRACTOR TO AVOID DISTURBING F.H. THRUST BLOCK.
18. THE CONTRACTOR SHALL PERFORM ALL TRENCHING, EXCAVATING, BACKFILLING, INSTALLATION AND ALL OTHER WORK AS SHOWN OR NOTED ON THESE PLANS & SPECIFICATIONS.
19. ALL TRENCHES, BOXES AND CONDUIT LAYOUTS IN THIS PLAN SET ARE SHOWN SCHEMATICALLY. THE CONTRACTOR SHALL INSTALL ALL UTILITY VAULTS, PADS, CONDUITS, ETC. IN PROPER RELATION TO FINAL GRADE. VERIFY ALL SUBSTRUCTURE EXCAVATION DIMENSIONS WITH SUPPLIERS PRIOR TO EXCAVATING.
20. ALL JOINT TRENCH CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD PRACTICES AND SPECIFICATIONS OF EACH PARTICIPATING UTILITY COMPANY AND CONFORM TO THE CURRENTLY ADOPTED EDITIONS OF THE STANDARD PLANS AND SPECIFICATIONS OF THE CITY OR COUNTY INVOLVED.
21. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING WORK.
22. THE BOTTOM OF ALL TRENCHES SHALL BE CLEARED OF ROCKS AND ALL OTHER HARD SURFACE MATERIAL. A SAND BEDDING OF AT LEAST 2" (TWO INCHES) SHALL BE PROVIDED ON WHICH THE UTILITIES WILL BE PLACED. (MAY NOT BE REQUIRED IN NATIVE SAND AREAS, CONSULT WITH LOCAL AGENCIES).
23. THE CONTRACTOR SHALL NOTIFY GIACALONE DESIGN SERVICES, INC. OF ANY DIFFERENCES IN THE ACTUAL LOCATION OF EXISTING FACILITIES FROM THAT SHOWN IN THESE PLANS, OR ANY OTHER CONFLICTS WITH THE DESIGN, PRIOR TO CONTINUING WORK IN THAT AREA. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT FIRST NOTIFYING GIACALONE DESIGN SERVICES, INC.
24. GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR ANY DIFFERENCES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PRIOR TO SUBMITTING BID.
25. THE CONTRACTOR SHALL COORDINATE ALL CONNECTIONS BETWEEN EXISTING AND PROPOSED FACILITIES WITH THE RESPECTIVE UTILITY INSPECTOR. ALL EXISTING CONDUIT TO BE USED SHALL BE MANDREL TESTED AND PROVED PRIOR TO MAKING CONNECTION AS DIRECTED BY THE GOVERNING INSPECTOR. UTILITY COMPANIES SHALL MAKE ALL "HOT" TIE-INS AND CONNECTIONS. **THE CONTRACTOR SHALL NOT ENTER OR WORK ON ANY ENERGIZED FACILITIES, UNLESS DIRECTED BY THE UTILITY INSPECTOR.** THIS COST SHALL BE INCLUDED IN CONTRACTOR BID.
26. THE CONTRACTOR IS REQUIRED TO EXCAVATE "BELL HOLES" AT THE TIE-IN LOCATIONS AS REQUIRED BY THE UTILITY COMPANIES.
27. TRENCHING AND/OR SUBSTRUCTURE EXCAVATIONS MAY TAKE PLACE OVER, UNDER, OR ADJACENT TO OTHER UNDERGROUND FACILITIES (STORM, SEWER, WATER, ETC.). THE CONTRACTOR IS RESPONSIBLE TO LOCATE, EXPOSE AND PROTECT IN PLACE ALL EXISTING FACILITIES. THIS WORK SHALL NOT BE CONSIDERED AS EXTRA WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW ALL IMPROVEMENT AND GRADING PLANS, IN CONJUNCTION WITH THESE PLANS, AND BID HIS WORK ACCORDINGLY.
28. THE RESPECTIVE UTILITY INSPECTOR WILL DETERMINE IN THE FIELD IF RETAINING WALLS WILL BE NEEDED TO MEET THE MINIMUM CLEARANCE REQUIREMENTS. REFER TO THE PG&E "GREEN BOOK" STANDARD DRAWING 051122 FOR APPROVED RETAINING WALL REQUIREMENTS. RETAINING WALLS ARE THE DEVELOPERS RESPONSIBILITY AND ARE NOT INCLUDED IN THIS CONTRACT.
29. THE CONTRACTOR SHALL "RED-LINE" (1) ONE SET OF THE JOINT TRENCH COMPOSITE PLANS AND (2) TWO SETS OF THE GAS AND ELECTRIC PLANS WITH "AS-BUILT" INFORMATION AND GIVE TO THE DEVELOPER PRIOR TO SPLICING OF THE PRIMARY ELECTRIC SYSTEM.
30. CONTRACTOR TO VERIFY RIGHT OF WAY, PUBLIC UTILITY EASEMENT AND/OR PUBLIC SERVICE EASEMENT ACQUISITION WITH THE APPLICANT PRIOR TO CONSTRUCTION WITHIN AREAS OF QUESTION.
31. SUBSTRUCTURES MUST HAVE 12" MINIMUM CLEARANCE FROM JOINT TRENCH.

GENERAL NOTES

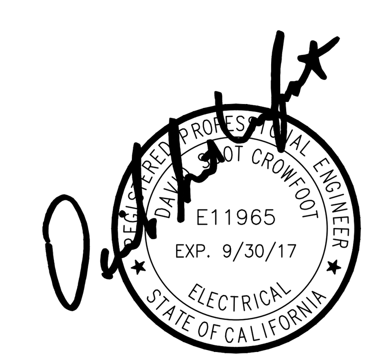
1. PG&E'S UO STANDARD S5453 TO BE UTILIZED FOR ALL TRENCHING, BACK-FILLING, AND INSTALLATION WORK.
2. SHOULD A DISPUTE OR DISAGREEMENT OVER ANY INSTALLATION, DESIGN, PLAN, OR DRAWING OCCUR THE SPECIFICATIONS AND REQUIREMENTS OF THE INDIVIDUAL UTILITY COMPANY AND THEIR INSPECTOR SHALL TAKE PRECEDENCE.
3. GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR THE QUALITY, QUANTITY OR TIMING OF WORK BY CONTRACTOR, UTILITY COMPANY CONSTRUCTION CREWS OR OTHER SUBCONTRACTORS TO THE DEVELOPER.
4. THE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED TO BE COMPLEMENTARY TO ONE ANOTHER. ANYTHING MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS SHALL BE CONSIDERED OF LIKE EFFECT AS IF APPEARING IN BOTH, CONTACT GIACALONE DESIGN SERVICES, INC. PRIOR TO START OF WORK OR SUBMITTAL OF BID IF A DISCREPANCY IS FOUND.
5. CONSULT PARTICIPATING UTILITIES, SOILS ENGINEER, AND THE CITY FOR APPROVED BACK FILL MATERIAL. COMPACTION TO MEET LOCAL AGENCIES REQUIREMENTS.
6. GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR THE PROJECT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE PROJECT AND SITE PRIOR TO SUBMITTING HIS BID.
7. ALL LENGTHS SHOWN ON THESE PLANS ARE ESTIMATES. FINAL QUANTITIES SHALL BE BASED ON WHAT WILL BE NEEDED TO COMPLETE THIS PROJECT. DUE TO CHANGES, ADDITIONS, DELETIONS OR OMISSIONS FINAL QUANTITIES MAY VARY.
8. SHOULD A CONFLICT ARISE BETWEEN FACILITIES SHOWN ON THESE PLANS AND IMPROVEMENT PLANS FOR THIS PROJECT, THE IMPROVEMENT PLANS SHALL TAKE PRECEDENCE. CONTACT GIACALONE DESIGN SERVICES, INC. (925) 467-1740 IF A PROBLEM SHOULD OCCUR.
9. ALL TRANSFORMERS AND TRANSFORMER PADS ARE TO BE INSTALLED PER PG&E SPECIFICATIONS. PROTECTIVE BOLLARDS ARE TO BE PLACED WHERE NEEDED AS DIRECTED BY UTILITY INSPECTOR.
10. THE MINIMUM TRENCH WIDTHS AND DEPTHS SHOWN ARE BASED ON THE MINIMUM UTILITY COMPANY REQUIREMENTS FOR WIDTH, DEPTH AND SEPARATIONS. THE CONTRACTOR SHALL EXCAVATE FOR ADDITIONAL WIDTH OR DEPTH WHERE THE PROPOSED JOINT TRENCH FACILITIES APPROACH AND CROSS OTHER EXISTING UTILITY LINES (STORM DRAIN, SEWER, WATER, ETC.) TO ADEQUATELY CLEAR THESE FACILITIES. THE JOINT TRENCH FACILITIES MAY BE PLACED EITHER BELOW OR ABOVE THE EXISTING UTILITY LINES WITH AT LEAST 6" FREE CLEARANCE BETWEEN THE EXISTING UTILITY LINES BEING CROSSED, OR SUCH GREATER MINIMUM DISTANCE AS MAY BE REQUIRED BY THE LOCAL GOVERNMENTAL AGENCY OR OTHER PUBLIC REGULATORY AGENCY. (SEE MINIMUM COVER AND CLEARANCE TABLE)
11. TRENCH SECTIONS SHOWN ARE SCHEMATIC AND INDICATE AREAS OF OCCUPANCY ONLY, THEY DO NOT REFLECT THE SIZE OR QUANTITY OF THE FACILITIES BEING INSTALLED AND ARE DESIGNED TO ACCOMMODATE ALL REQUIRED FACILITIES AS SHOWN ON EACH TRENCH PARTICIPANTS' CONSTRUCTION DRAWINGS. REFER TO THE COMPOSITE, CONDUIT, STREETLIGHT PLAN AND/OR EACH RESPECTIVE UTILITY COMPANIES CONSTRUCTION DRAWINGS FOR THE NECESSARY CONDUIT, CABLE AND/OR PIPE BEING INSTALLED.
12. RESPECTIVE UTILITY TO OBTAIN CITY OR COUNTY APPROVAL OF ALL ABOVE GROUND EQUIPMENT.
13. ALL BOXES TO BE INSTALLED WITHIN THE R/W AND/OR PUE AREA.
14. ANY QUESTIONS OR UNCERTAINTIES REGARDING REMOVAL AND/OR REPLACEMENT OF EXISTING HARDSCAPE OR LANDSCAPE SHALL BE COORDINATED WITH THE DEVELOPER AND/OR OTHER PARTIES/AGENCIES INVOLVED.
15. A 3 FOOT CLEAR & LEVEL WORKING AREA MUST BE MAINTAINED AROUND ALL ELECTRIC ENCLOSURES, EXCEPT 4'-6"x8'-6" VAULTS WHICH SHALL MAINTAIN A 5 FOOT MINIMUM CLEAR & LEVEL WORKING AREA ON THE SHORT SIDES AND 3 FOOT ON THE LONG WALL SIDES; PAD MOUNT EQUIPMENT SHALL MAINTAIN AN 8 FOOT CLEAR & LEVEL WORKING AREA IN FRONT OF EQUIPMENT DOORS AND 3 FOOT CLEAR ON SIDES & BACK, UNLESS DIRECTED OTHERWISE BY INSPECTOR. REFER TO THE PG&E "GREEN BOOK" STANDARD DRAWING 051122 FOR ADDITIONAL CLEARANCE PROTECTION REQUIREMENTS.



TYPICAL BIO-SWALE STREET SECTION
NOT TO SCALE

DESIGN CHANGE COMPONENT
ANY CHANGES TO THIS DESIGN MUST BE APPROVED BY
RALPH BEIERLY 415-695-3554
PG&E Gas ADE

DEVELOPER
PLEASE NOTE AND SIGN
ALL PG&E ENCLOSURES AND BOXES HAVE BEEN SET TO GRADE ACCORDING TO GRADE STAKES PROVIDED BY DEVELOPERS ENGINEER. ALL COSTS TO RELOCATE OR RE-ADJUST BOXES AT A LATER DATE WILL BE BILLED TO THE DEVELOPER. PLEASE HAVE YOUR SUPERINTENDENT VERIFY THE CORRECT GRADE OF ALL ENCLOSURES AND BOXES AND SIGN AND DATE DRAWING.
THANK YOU
SIGNED: ____________
DATE: ____________



TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
811
CALL BEFORE YOU DIG

REVISIONS
SYMBOL | DATE | DESCRIPTION | APPROVED

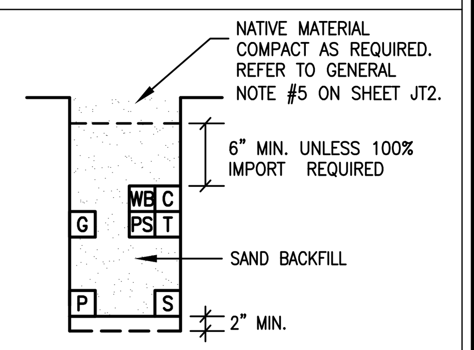
GIACALONE DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

JOINT TRENCH GENERAL NOTES & DETAILS
BKF
PARKMERCED
PHASE 1A - B1 & B6
SAN FRANCISCO CALIFORNIA

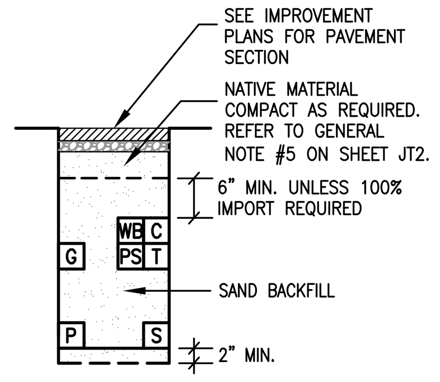
PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: CVN
CHECKED BY: DC
SCALE: AS SHOWN
JOB NUMBER: 14-193 B1 & B6
DATE LAST MODIFIED: 05-01-17
SHEET JT2
OF 13 SHEETS

MINIMUM COVER & CLEARANCE CHART

UTILITY	G	T	C	S	P	PUB SL	PGE SL	F	MINIMUM COVER
G (GAS) SEE NOTE 3 & 4		12"	12"	6"	12"	12"	6"	12"	24"; 30" IN STREET
T (TELEPHONE)	12"		1"	12"	12"	12"	12"	1"	24"; 30" IN STREET
C & WB (CABLE T.V.)	12"	1"		12"	12"	1"	12"	1"	24"; 30" IN STREET
S (ELECT. SECONDARY)	6"	12"	12"	1.5"	3"	12"	1.5"	12"	24"; 30" IN STREET
P (ELECT. PRIMARY)	12"	12"	12"	3"	3"	12"	3"	12"	36"; 36" IN STREET
*SL (PUBLIC-STREET LIGHT)	12"	12"	1"	12"	12"		12"	1"	24"; 30" IN STREET
SL (PG&E-STREET LIGHT)	6"	12"	12"	1.5"	3"	12"		12"	24"; 30" IN STREET
PS (PUBLIC SAFETY)	12"	1"	1"	12"	12"	1"	12"		24"; 30" IN STREET



TRENCH IN DIRT AREA



TRENCH IN STREET AREA OR SIDEWALK

NOTE:

1. TRENCH COVER & CLEARANCES SHOWN ARE MINIMUMS ONLY AND MAY REQUIRE ALTERATIONS TO SUIT FIELD CONDITIONS.
2. IT IS RECOMMENDED THAT ALL FACILITIES ARE TO BE A MINIMUM OF 12" BELOW SUBBASE DISTURBANCE.
3. WITH MUTUAL AGREEMENT FROM PARTICIPATING UTILITIES, WHEN 4" O.D. OR SMALLER GAS PIPE IS INSTALLED, SEPARATION MAY BE REDUCED TO NOT LESS THAN 6" BETWEEN GAS AND COMMUNICATION DUCTS (TELEPHONE, CATV & FIBER OPTIC).
4. WHERE 6" GAS MAIN IS IN JOINT TRENCH 12" MINIMUM SEPARATION FROM GAS MAIN TO ALL UTILITIES WILL BE REQUIRED.
5. 3" MINIMUM BETWEEN 600A (6") MAINLINE PRIMARY ELECTRIC DUCTS.

*6. WITH MUTUAL AGREEMENT FROM PARTICIPATING UTILITIES, ST. LT. SEPARATION MAY BE REDUCED TO 0" BETWEEN ST. LT. AND COMMUNICATION DUCTS (TELEPHONE, CATV. & FIBER OPTIC).

TRENCH SECTION LEGEND

- MEETS UTILITY TRENCH ALLOTMENT
- EXCEEDS UTILITY TRENCH ALLOTMENT
- P PG&E PRIMARY
- S PG&E SECONDARY
- G PG&E GAS
- T TELEPHONE
- C COMCAST CABLE T.V.
- WB WAVEBAND CABLE T.V.
- PS PUBLIC SAFETY
- SL PUBLIC STREET LIGHTING

XX LF–TOTAL = TOTAL TRENCH LENGTH
XX LF–R&R = REMOVE & REPLACE PAVEMENT ONLY, TRENCH INCLUDED IN TOTAL TRENCH LENGTH

JOINT TRENCH OCCUPANCY GUIDE

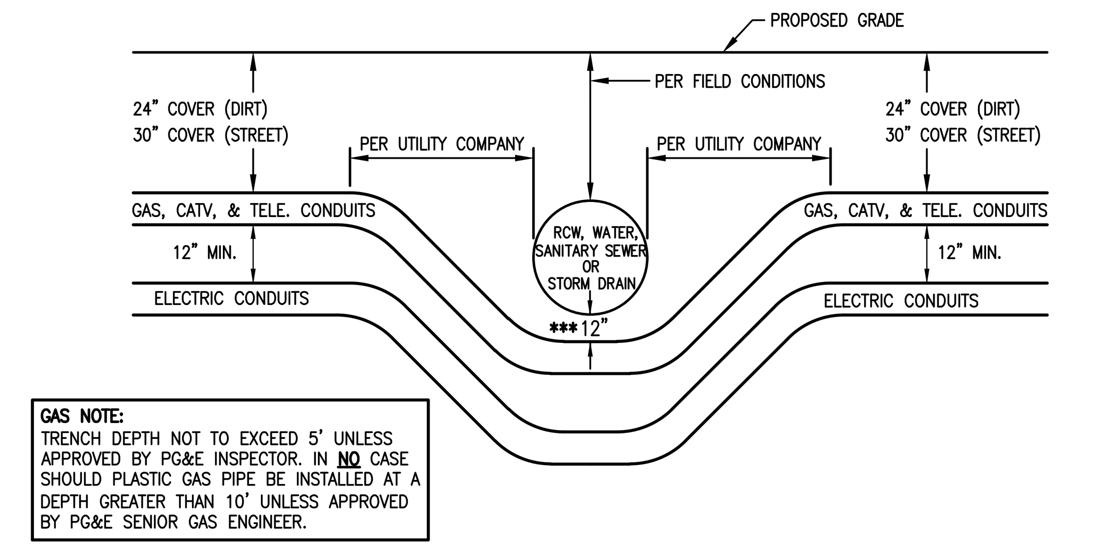
SECTION	G	T	C	S	P	OTHER
*A	X	X	X	X	X	
*B	X	X		X	X	
*C	X		X	X	X	
*D		X	X	X	X	
*E	X			X	X	
*F		X		X	X	
*G			X	X	X	
*H				X	X	
I	X	X	X			
J	X	X				
K	X		X			
L		X	X			
M	X	X	X	X		
N	X	X		X		
O	X		X	X		
P		X	X	X		
Q	X			X		
R		X		X		
S			X	X		
T	X					
U		X				
V			X			
W				X		

*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY

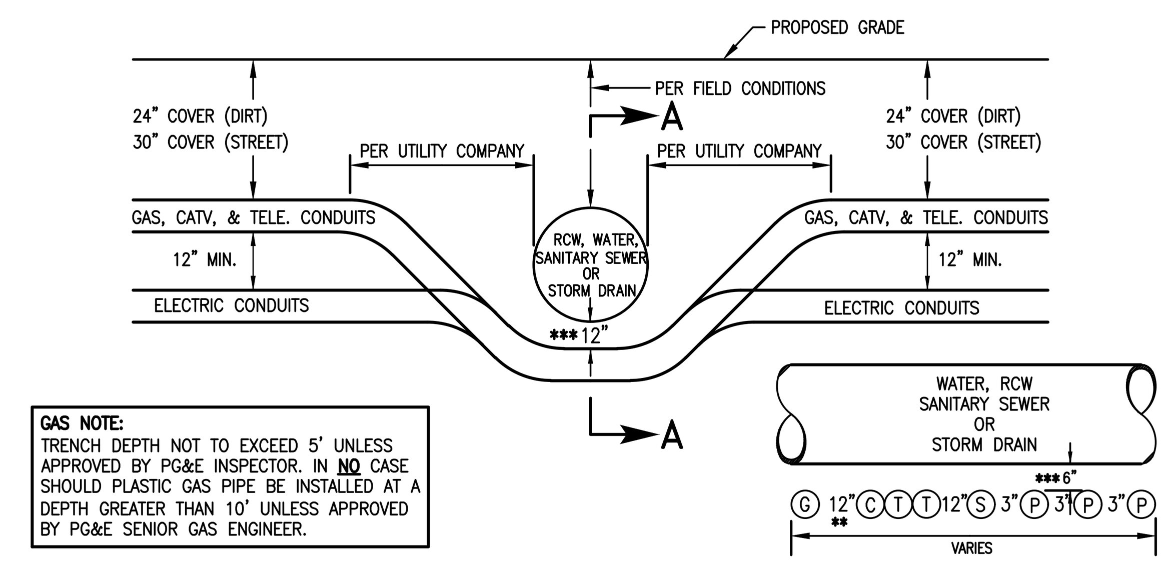
GENERAL TRENCH SECTION NOTES

1. TRENCH CONFIGURATIONS SHOWN ARE FOR INSTALLATIONS WHERE EACH OCCUPANT IS UTILIZING HIS ENTIRE SPACE ALLOCATION. OTHER CONFIGURATIONS, OR REDUCED DIMENSIONS, MAY BE USED PROVIDED THAT MINIMUM COVER AND CLEARANCES ARE MAINTAINED.
2. CONTRACTOR TO ADJUST TRENCH DEPTHS AT ALL JOINT TRENCH LATERAL CROSSINGS TO MAINTAIN REQUIRED CLEARANCES BETWEEN ALL PARTICIPATING UTILITIES.
3. TRENCH SECTIONS SHOWN ARE SCHEMATIC AND INDICATE AREAS OF OCCUPANCY ONLY, THEY DO NOT REFLECT THE SIZE OR QUANTITY OF THE FACILITIES BEING INSTALLED AND ARE DESIGNED TO ACCOMMODATE ALL REQUIRED FACILITIES AS SHOWN ON EACH TRENCH PARTICIPANTS' CONSTRUCTION DRAWINGS. REFER TO THE COMPOSITE, CONDUIT, STREETLIGHT PLAN AND/OR EACH RESPECTIVE UTILITY COMPANIES CONSTRUCTION DRAWINGS FOR THE NECESSARY CONDUIT, CABLE AND/OR PIPE BEING INSTALLED.

DRY UTILITY CROSSING DETAILS



JOINT TRENCH UNDER WATER, RECYCLED WATER, SANITARY SEWER OR STORM DRAIN



SECTION A–A
NOT TO SCALE

JOINT TRENCH UNDER WATER, RECYCLED WATER, SANITARY SEWER OR STORM DRAIN

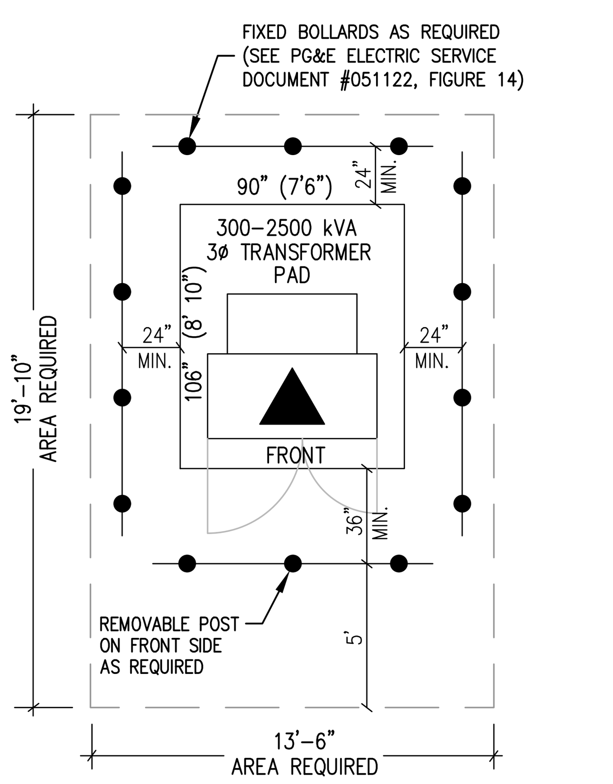
NOTE:

*1. SEE MINIMUM COVER & CLEARANCE CHART.

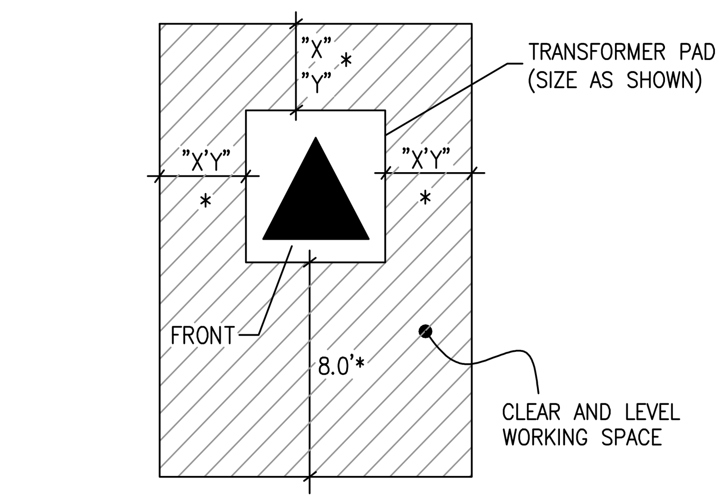
**2. WITH MUTUAL AGREEMENT, WHEN 4" O.D. OR SMALLER GAS PIPE IS INSTALLED SEPARATION MAY BE REDUCED TO NOT LESS THAN 6" BETWEEN GAS AND COMMUNICATION DUCTS (TELEPHONE & CATV).

3. 6" MINIMUM REQUIRED BY PG&E–ADDITIONAL CLEARANCE MAYBE REQUIRED BY CITY OR COUNTY. BED THE BOTTOM OF THE TRENCH WITH IMPORTED SAND, INSTALL THE CONDUIT AND/OR GAS PIPE, COVER THE FACILITY WITH THE SAME IMPORTED SAND AND MECHANICALLY COMPACT USING A VIBRATORY TYPE COMPACTOR.

4. CROSSING METHODS ARE NOT LIMITED TO THE ABOVE DETAILS. OTHER APPROVED CONFIGURATIONS MAY BE USED. CONTRACTOR TO VERIFY METHOD OF CROSSING WITH GOVERNING AGENCY AND/OR UTILITY COMPANIES AS REQUIRED PRIOR TO CONSTRUCTION.
5. JOINT TRENCH CONTRACTOR SHALL NOT ASSUME THAT ANY OF THE METHODS ABOVE WILL BE ACCEPTABLE TO PG&E & THE UTILITIES. J.T. CONTRACTOR IS REQUIRED TO COORDINATE THE LOCAL INSPECTORS PRIOR TO INSTALLING DRY UTILITIES ACROSS WATER, RECYCLED WATER, SANITARY SEWER, STORM DRAIN OR ANY OTHER FACILITY WITH ANY ISSUE RELATING TO COVERS LESS THAN THE MINIMUM OR COVERS REQUIRING SHOWING. CONCRETE CAPPING IS ONLY ACCEPTABLE WHERE NO OTHER SOLUTION IS POSSIBLE AND ONLY WHEN CERTAIN CRITERIA ARE MET AND ONLY WITH PG&E APPROVAL.



PG&E STYLE IIE 3Ø TRANSFORMER DETAIL
90" x 106"
(PHYSICAL PROTECTION REQUIREMENTS IN PARKING LOT, TRAVELED WAY, ETC. ...)
NOT TO SCALE
1 / JT3



"Y"= 2' MIN. CLEAR WORKING SPACE
"Y"= 2' MIN. TO NON–COMBUSTIBLE BLDG. WALL
"X"= 3' MIN. TO COMBUSTIBLE BLDG. WALL

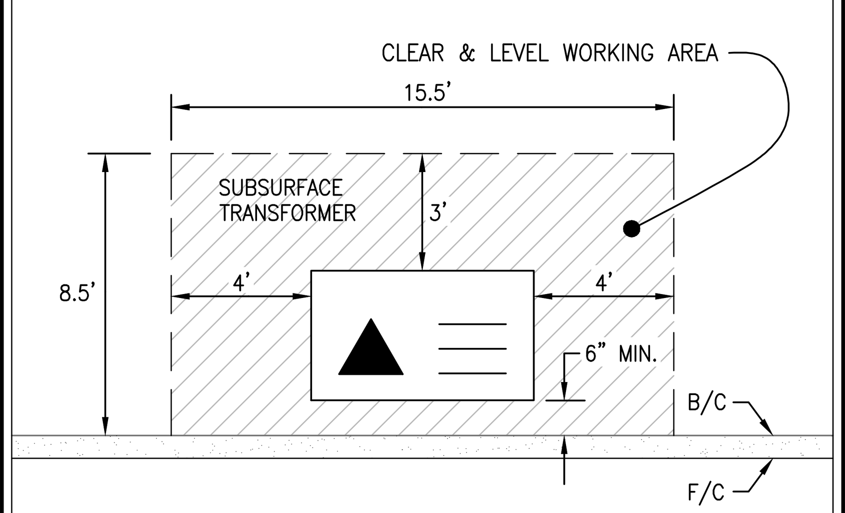
2' MIN. CLEARANCE APPLIES TO ONLY ONE NON OPERABLE SIDE
3' MUST BE MAINTAINED ON THE REMAINING TWO SIDES

4' MIN. DOORWAY CLEARANCE (DO NOT IMPEDE ACCESS)
(CONTACT INSPECTOR FOR CLEARANCE TO OPENING WINDOWS)

* MIN. 9' (COMMERCIAL/HIGH DENSITY) FROM FACE OF CURB WITHOUT PHYSICAL PROTECTION
* MIN. 3' (RESIDENTIAL/LOW DENSITY) FROM FACE OF CURB WITHOUT PHYSICAL PROTECTION

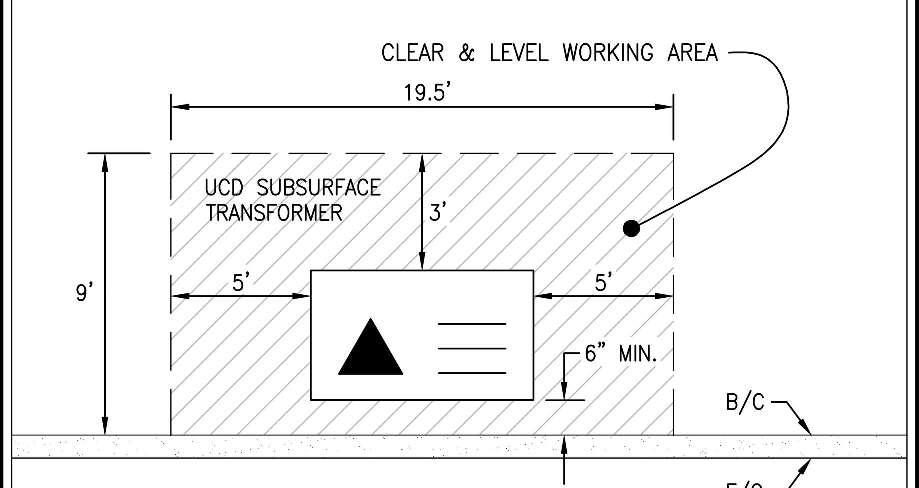
2 / JT3 ALL PG&E TRANSFORMERS
N.T.S.

4'x6'6"x5' (I.D.) SUBSURFACE TRANSFORMER CLEARANCES



3 / JT3
CLEARANCE REQUIREMENTS BASED ON OUTSIDE DIMENSIONS OF BOX.
NOT TO SCALE

4'6"x8'6"x7'6" (I.D.) UCD SUBSURFACE TRANSFORMER CLEARANCES



4 / JT3
CLEARANCE REQUIREMENTS BASED ON OUTSIDE DIMENSIONS OF BOX.
NOT TO SCALE

LEGEND

SYMBOL	DESCRIPTION
JT	EXISTING TRENCH OR UTILITIES
	PROPOSED TRENCH (DISTRIBUTION)
	PROPOSED TRENCH (SERVICE)
	PROPOSED STREET LIGHT TRENCH
	EXISTING UTILITY SPLICE BOX
FVT G G	GAS E.T.S. BOX (N.T.S.)
2	17"x30"x18" PG&E SPLICE BOX
3	24"x36"x18" PG&E SPLICE BOX
6	4'x6'6"x5' PG&E BOX
7	4'6"x8'6"x6' PG&E SPLICE BOX
	4'x6'6"x5' PG&E TRANSFORMER
	4'6"x8'6"x7'6" PG&E UCD TRANSFORMER
	90"x106" PG&E PAD MOUNT TRANSFORMER
PG&E	PG&E TERMINATION CAN
MM	3'x5'x3'6" PG&E 'MEET ME' BOX
T7	20"x42"x36" TELEPHONE SPLICE BOX
T4	30"x48"x34" TELEPHONE SPLICE BOX
T5	36"x60"x48" TELEPHONE SPLICE BOX
C2	20"x42"x12" CATV BOX (B44)
C4	30"x48"x14" CATV BOX (B52)
WB WB FVT	4'x4'x4' WAVE BAND BOX (FVT)
	13"x24"x12" N3 PS BOX (BY DEPT. OF TECHNOLOGY)
M	METERED SERVICE PEDESTAL
	PROPOSED L.E.D. STREET LIGHT
	PROPOSED L.E.D. PEDESTRIAN STREET LIGHT
	STREET LIGHT BOX (STATE TYPE 3 1/2)
	FUTURE T/S CONTROLLER CABINET (BY OTHERS)
#	PG&E SKETCH LOCATION NUMBER
(F.V.T.)	FULL VEHICULAR TRAFFIC LID
(N.T.S.)	NOT TO SCALE
(U.O.N.)	UNLESS OTHERWISE NOTED

PROFESSIONAL ENGINEER
DAVE CROWFOOT
E11965
EXP. 9/30/17
ELECTRICAL
STATE OF CALIFORNIA

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
811
CALL BEFORE YOU DIG

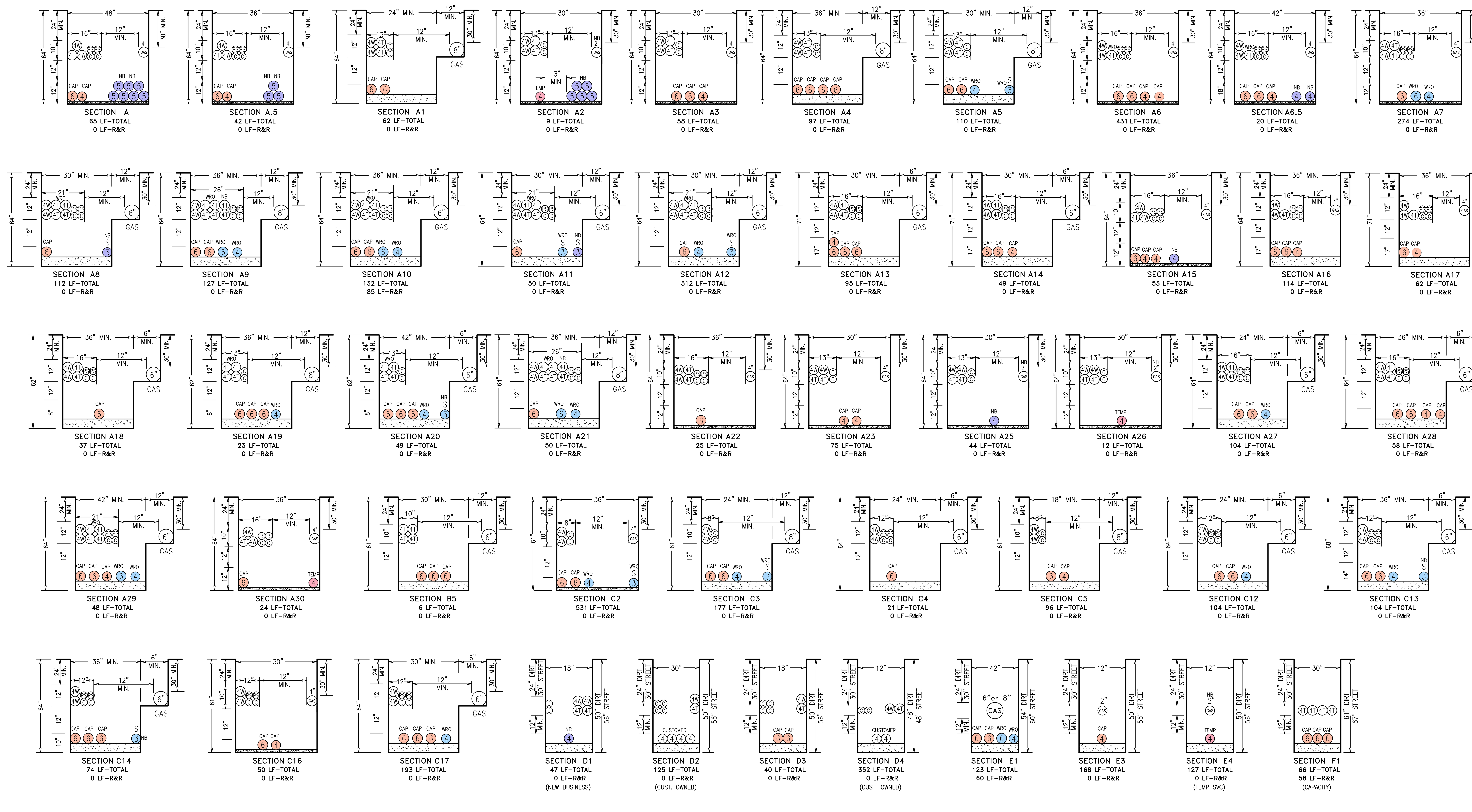
REVISIONS

SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

JOINT TRENCH DETAILS
BKF
PARKMERCED
PHASE 1A – B1 & B6
SAN FRANCISCO CALIFORNIA

PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: CVN
CHECKED BY: DC
SCALE: AS SHOWN
JOB NUMBER: 14–193 B1 & B6
DATE LAST MODIFIED: 05–01–17
SHEET
JT3
OF 13 SHEETS



SECTION A
65 LF-TOTAL
0 LF-R&R

SECTION A.5
42 LF-TOTAL
0 LF-R&R

SECTION A1
62 LF-TOTAL
0 LF-R&R

SECTION A2
9 LF-TOTAL
0 LF-R&R

SECTION A3
58 LF-TOTAL
0 LF-R&R

SECTION A4
97 LF-TOTAL
0 LF-R&R

SECTION A5
110 LF-TOTAL
0 LF-R&R

SECTION A6
431 LF-TOTAL
0 LF-R&R

SECTION A6.5
20 LF-TOTAL
0 LF-R&R

SECTION A7
274 LF-TOTAL
0 LF-R&R

SECTION A8
112 LF-TOTAL
0 LF-R&R

SECTION A9
127 LF-TOTAL
0 LF-R&R

SECTION A10
132 LF-TOTAL
85 LF-R&R

SECTION A11
50 LF-TOTAL
0 LF-R&R

SECTION A12
312 LF-TOTAL
0 LF-R&R

SECTION A13
95 LF-TOTAL
0 LF-R&R

SECTION A14
49 LF-TOTAL
0 LF-R&R

SECTION A15
53 LF-TOTAL
0 LF-R&R

SECTION A16
114 LF-TOTAL
0 LF-R&R

SECTION A17
62 LF-TOTAL
0 LF-R&R

SECTION A18
37 LF-TOTAL
0 LF-R&R

SECTION A19
23 LF-TOTAL
0 LF-R&R

SECTION A20
49 LF-TOTAL
0 LF-R&R

SECTION A21
50 LF-TOTAL
0 LF-R&R

SECTION A22
25 LF-TOTAL
0 LF-R&R

SECTION A23
75 LF-TOTAL
0 LF-R&R

SECTION A25
44 LF-TOTAL
0 LF-R&R

SECTION A26
12 LF-TOTAL
0 LF-R&R

SECTION A27
104 LF-TOTAL
0 LF-R&R

SECTION A28
58 LF-TOTAL
0 LF-R&R

SECTION A29
48 LF-TOTAL
0 LF-R&R

SECTION A30
24 LF-TOTAL
0 LF-R&R

SECTION B5
6 LF-TOTAL
0 LF-R&R

SECTION C2
531 LF-TOTAL
0 LF-R&R

SECTION C3
177 LF-TOTAL
0 LF-R&R

SECTION C4
21 LF-TOTAL
0 LF-R&R

SECTION C5
96 LF-TOTAL
0 LF-R&R

SECTION C12
104 LF-TOTAL
0 LF-R&R

SECTION C13
104 LF-TOTAL
0 LF-R&R

SECTION C14
74 LF-TOTAL
0 LF-R&R

SECTION C16
50 LF-TOTAL
0 LF-R&R

SECTION C17
193 LF-TOTAL
0 LF-R&R

SECTION D1
47 LF-TOTAL
0 LF-R&R
(NEW BUSINESS)

SECTION D2
125 LF-TOTAL
0 LF-R&R
(CUST. OWNED)

SECTION D3
40 LF-TOTAL
0 LF-R&R

SECTION D4
352 LF-TOTAL
0 LF-R&R
(CUST. OWNED)

SECTION E1
123 LF-TOTAL
60 LF-R&R

SECTION E3
168 LF-TOTAL
0 LF-R&R

SECTION E4
127 LF-TOTAL
0 LF-R&R
(TEMP SVC)

SECTION F1
66 LF-TOTAL
58 LF-R&R
(CAPACITY)

SECTION G3
57 LF-TOTAL
0 LF-R&R

SECTION H2
11 LF-TOTAL
0 LF-R&R
(TEMP SVC)

SECTION H3
21 LF-TOTAL
0 LF-R&R
(NEW BUSINESS)

SECTION H4
48 LF-TOTAL
0 LF-R&R
(TEMP SVC)

SECTION H5
357 LF-TOTAL
357 LF-R&R
(CAPACITY)

SECTION H6
66' LF-TOTAL
0 LF-R&R
(NEW BUSINESS)

SECTION H7
90 LF-TOTAL
55 LF-R&R
(CAPACITY)

SECTION H8
105 LF-TOTAL
0 LF-R&R
(CAPACITY)

SECTION H9
49 LF-TOTAL
0 LF-R&R
(CAPACITY)

SECTION LEGEND

- NEW BUSINESS (PM# AS SHOWN)
- TEMP SERVICE (PM# AS SHOWN)
- CAPACITY (PM# 31172378)
- WRO RELOCATION (PM# 31222515)

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CALL USA TOLL FREE
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REGISTERED PROFESSIONAL ENGINEER
DAVID CROWFOOT
E11965
EXP. 9/30/17
ELECTRICAL
STATE OF CALIFORNIA

REVISIONS			
SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE
DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

JOINT TRENCH SECTIONS

BKF
PARKMERCED
PHASE 1A – B1 & B6
SAN FRANCISCO CALIFORNIA

PROJECT MANAGER:
DAVE CROWFOOT

DRAWN BY:
CVN

CHECKED BY:
DC

SCALE:
AS SHOWN

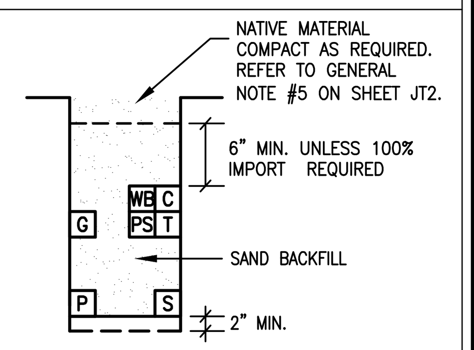
JOB NUMBER:
14-193 B1 & B6

DATE LAST MODIFIED:
05-01-17

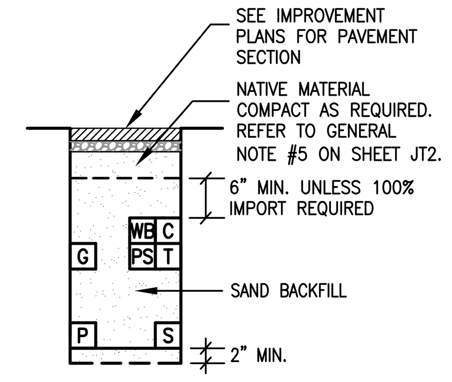
SHEET
JT3A
OF 13 SHEETS

MINIMUM COVER & CLEARANCE CHART

UTILITY	G	T	C	S	P	PUB SL	PGE SL	F	MINIMUM COVER
G (GAS) SEE NOTE 3 & 4		12"	12"	6"	12"	12"	6"	12"	24"; 30" IN STREET
T (TELEPHONE)	12"		1"	12"	12"	12"	12"	1"	24"; 30" IN STREET
C & WB (CABLE T.V.)	12"	1"		12"	12"	1"	12"	1"	24"; 30" IN STREET
S (ELECT. SECONDARY)	6"	12"	12"	1.5"	3"	12"	1.5"	12"	24"; 30" IN STREET
P (ELECT. PRIMARY)	12"	12"	12"	3"	3"	12"	3"	12"	36"; 36" IN STREET
*SL (PUBLIC-STREET LIGHT)	12"	12"	1"	12"	12"		12"	1"	24"; 30" IN STREET
SL (PG&E-STREET LIGHT)	6"	12"	12"	1.5"	3"	12"		12"	24"; 30" IN STREET
PS (PUBLIC SAFETY)	12"	1"	1"	12"	12"	1"	12"		24"; 30" IN STREET



TRENCH IN DIRT AREA



TRENCH IN STREET AREA OR SIDEWALK

NOTE:

1. TRENCH COVER & CLEARANCES SHOWN ARE MINIMUMS ONLY AND MAY REQUIRE ALTERATIONS TO SUIT FIELD CONDITIONS.
2. IT IS RECOMMENDED THAT ALL FACILITIES ARE TO BE A MINIMUM OF 12" BELOW SUBBASE DISTURBANCE.
3. WITH MUTUAL AGREEMENT FROM PARTICIPATING UTILITIES, WHEN 4" O.D. OR SMALLER GAS PIPE IS INSTALLED, SEPARATION MAY BE REDUCED TO NOT LESS THAN 6" BETWEEN GAS AND COMMUNICATION DUCTS (TELEPHONE, CATV & FIBER OPTIC).
4. WHERE 6" GAS MAIN IS IN JOINT TRENCH 12" MINIMUM SEPARATION FROM GAS MAIN TO ALL UTILITIES WILL BE REQUIRED.
5. 3" MINIMUM BETWEEN 600A (6") MAINLINE PRIMARY ELECTRIC DUCTS.

*6. WITH MUTUAL AGREEMENT FROM PARTICIPATING UTILITIES, ST. LT. SEPARATION MAY BE REDUCED TO 0" BETWEEN ST. LT. AND COMMUNICATION DUCTS (TELEPHONE, CATV. & FIBER OPTIC).

TRENCH SECTION LEGEND

- MEETS UTILITY TRENCH ALLOTMENT
- EXCEEDS UTILITY TRENCH ALLOTMENT
- P PG&E PRIMARY
- S PG&E SECONDARY
- G PG&E GAS
- T TELEPHONE
- C COMCAST CABLE T.V.
- WB WAVEBAND CABLE T.V.
- PS PUBLIC SAFETY
- SL PUBLIC STREET LIGHTING

XX LF-TOTAL = TOTAL TRENCH LENGTH

XX LF-R&R = REMOVE & REPLACE PAVEMENT ONLY, TRENCH INCLUDED IN TOTAL TRENCH LENGTH

SECTION LEGEND

- NEW BUSINESS (PM# AS SHOWN)
- TEMP SERVICE (PM# AS SHOWN)
- CAPACITY (PM# 31172378)
- WRO RELOCATION (PM# 31222515)

DASHED OUTLINE INDICATES NOT ALWAYS IN TRENCH SECTION

JOINT TRENCH OCCUPANCY GUIDE

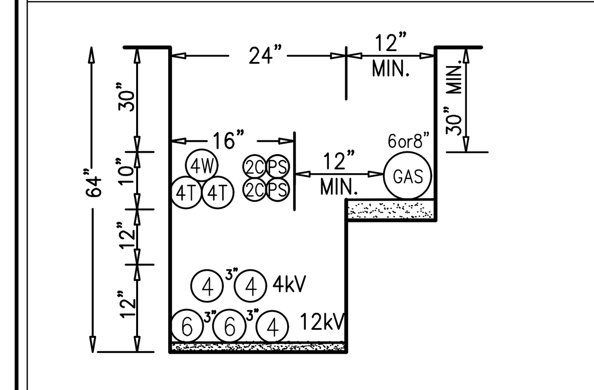
SECTION	G	T	C	S	P	OTHER
*A	X	X	X	X	X	
*B	X	X		X	X	
*C	X		X	X	X	
*D		X	X	X	X	
*E	X			X	X	
*F		X		X	X	
*G			X	X	X	
*H				X	X	
I	X	X	X			
J	X	X				
K	X		X			
L		X	X			
M	X	X	X	X		
N	X	X		X		
O	X		X	X		
P		X	X	X		
Q	X			X		
R		X		X		
S			X	X		
T	X					
U		X				
V			X			
W				X		

*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY

GENERAL TRENCH SECTION NOTES

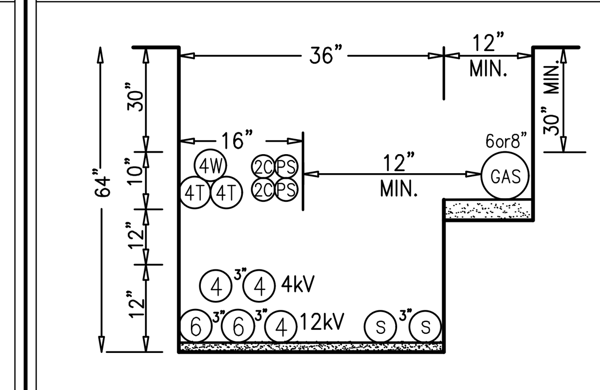
1. TRENCH CONFIGURATIONS SHOWN ARE FOR INSTALLATIONS WHERE EACH OCCUPANT IS UTILIZING HIS ENTIRE SPACE ALLOCATION. OTHER CONFIGURATIONS, OR REDUCED DIMENSIONS, MAY BE USED PROVIDED THAT MINIMUM COVER AND CLEARANCES ARE MAINTAINED.
2. CONTRACTOR TO ADJUST TRENCH DEPTHS AT ALL JOINT TRENCH LATERAL CROSSINGS TO MAINTAIN REQUIRED CLEARANCES BETWEEN ALL PARTICIPATING UTILITIES.
3. TRENCH SECTIONS SHOWN ARE SCHEMATIC AND INDICATE AREAS OF OCCUPANCY ONLY, THEY DO NOT REFLECT THE SIZE OR QUANTITY OF THE FACILITIES BEING INSTALLED AND ARE DESIGNED TO ACCOMMODATE ALL REQUIRED FACILITIES AS SHOWN ON EACH TRENCH PARTICIPANTS' CONSTRUCTION DRAWINGS. REFER TO THE COMPOSITE, CONDUIT, STREETLIGHT PLAN AND/OR EACH RESPECTIVE UTILITY COMPANIES CONSTRUCTION DRAWINGS FOR THE NECESSARY CONDUIT, CABLE AND/OR PIPE BEING INSTALLED.

TYPICAL STEP TRENCH W/GAS



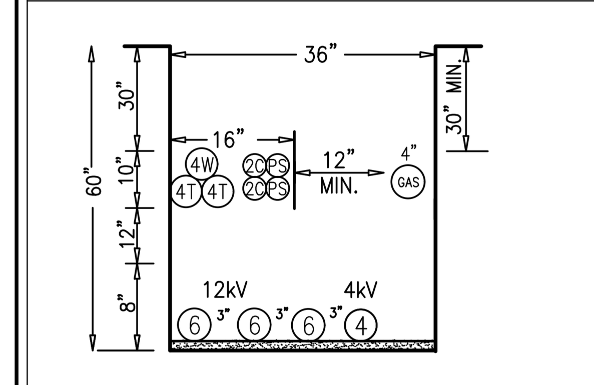
NOT TO SCALE

TYPICAL STEP TRENCH W/GAS AND SECONDARY



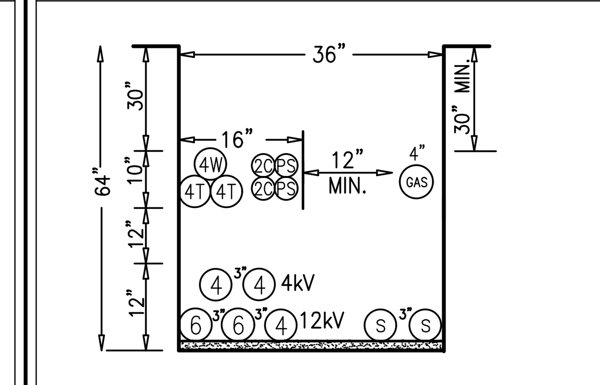
NOT TO SCALE

TYPICAL TRENCH



NOT TO SCALE

TYPICAL TRENCH W/SECONDARY



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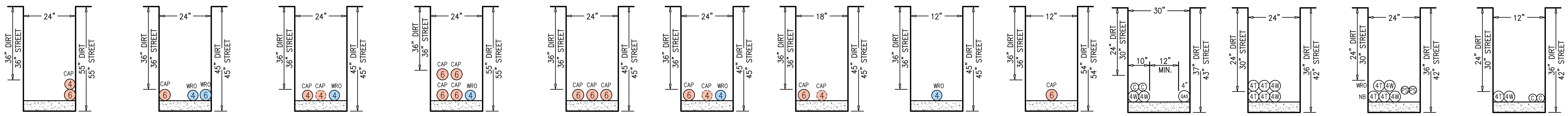
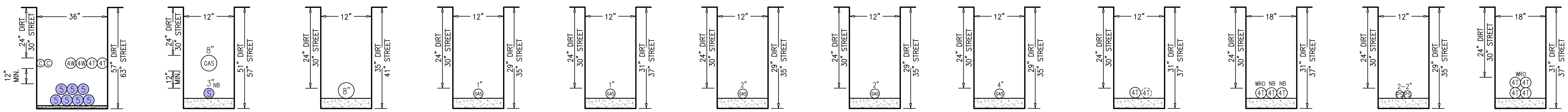
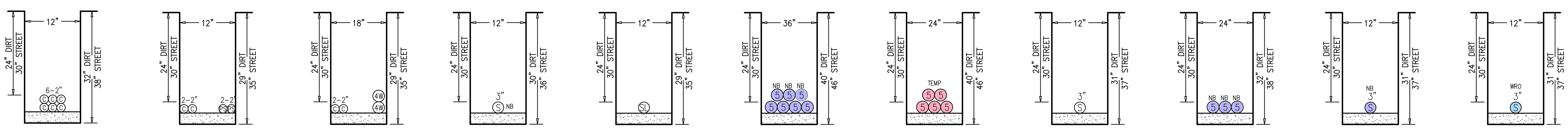


SECTION H10 31 LF-TOTAL 0 LF-R&R | SECTION H11 26 LF-TOTAL 0 LF-R&R | SECTION H12 15 LF-TOTAL 0 LF-R&R | SECTION H13 101 LF-TOTAL 0 LF-R&R | SECTION H14 28 LF-TOTAL 28 LF-R&R | SECTION H15 8 LF-TOTAL 0 LF-R&R | SECTION H16 13 LF-TOTAL 0 LF-R&R | SECTION H17 22 LF-TOTAL 0 LF-R&R | SECTION H18 10 LF-TOTAL 0 LF-R&R | SECTION I 82 LF-TOTAL 0 LF-R&R | SECTION L 120 LF-TOTAL 0 LF-R&R | SECTION L1 108 LF-TOTAL 0 LF-R&R | SECTION L2 43 LF-TOTAL 0 LF-R&R



SECTION P1 13 LF-TOTAL 0 LF-R&R | SECTION Q 69 LF-TOTAL 0 LF-R&R | SECTION T 19 LF-TOTAL 0 LF-R&R | SECTION *T2 1259 LF-TOTAL 0 LF-R&R (PM 31179643) | SECTION *T3 139 LF-TOTAL 0 LF-R&R (WRO) | SECTION T4 104 LF-TOTAL 0 LF-R&R (SERVICE - N.B.) | SECTION T5 133 LF-TOTAL 0 LF-R&R (PM 31154008) | SECTION T6 5 LF-TOTAL 0 LF-R&R | SECTION U 85 LF-TOTAL 0 LF-R&R | SECTION U1 55 LF-TOTAL 0 LF-R&R | SECTION U2 145 LF-TOTAL 0 LF-R&R (PUBLIC SAFETY) | SECTION U4 82 LF-TOTAL 33 LF-R&R



SECTION V 28 LF-TOTAL 0 LF-R&R | SECTION V2 55 LF-TOTAL 0 LF-R&R | SECTION V3 18 LF-TOTAL 0 LF-R&R | SECTION W 66 LF-TOTAL 0 LF-R&R (SERVICE) | SECTION W1 7908 LF-TOTAL 0 LF-R&R (PUBLIC ST. LIGHT) | SECTION W2 15 LF-TOTAL 0 LF-R&R (SERVICE) | SECTION W3 11 LF-TOTAL 0 LF-R&R (TEMP SVC) | SECTION W4 155 LF-TOTAL 0 LF-R&R (CUST. OWNED) | SECTION W5 15 LF-TOTAL 0 LF-R&R (SERVICE) | SECTION W6 130 LF-TOTAL 0 LF-R&R (SERVICE - N.B.) | SECTION W8 135 LF-TOTAL 0 LF-R&R (RELOCATE)

NOTE:
* CONFIRM GAS IS SERVICE WITH PG&E GAS SERVICE RELOCATION. (GSR)

REGISTERED PROFESSIONAL ENGINEER DAVID CROWFOOT E11965 EXP. 9/30/17 ELECTRICAL STATE OF CALIFORNIA

TWO DAYS BEFORE YOU DIG CALL USA TOLL FREE 811

CALL BEFORE YOU DIG

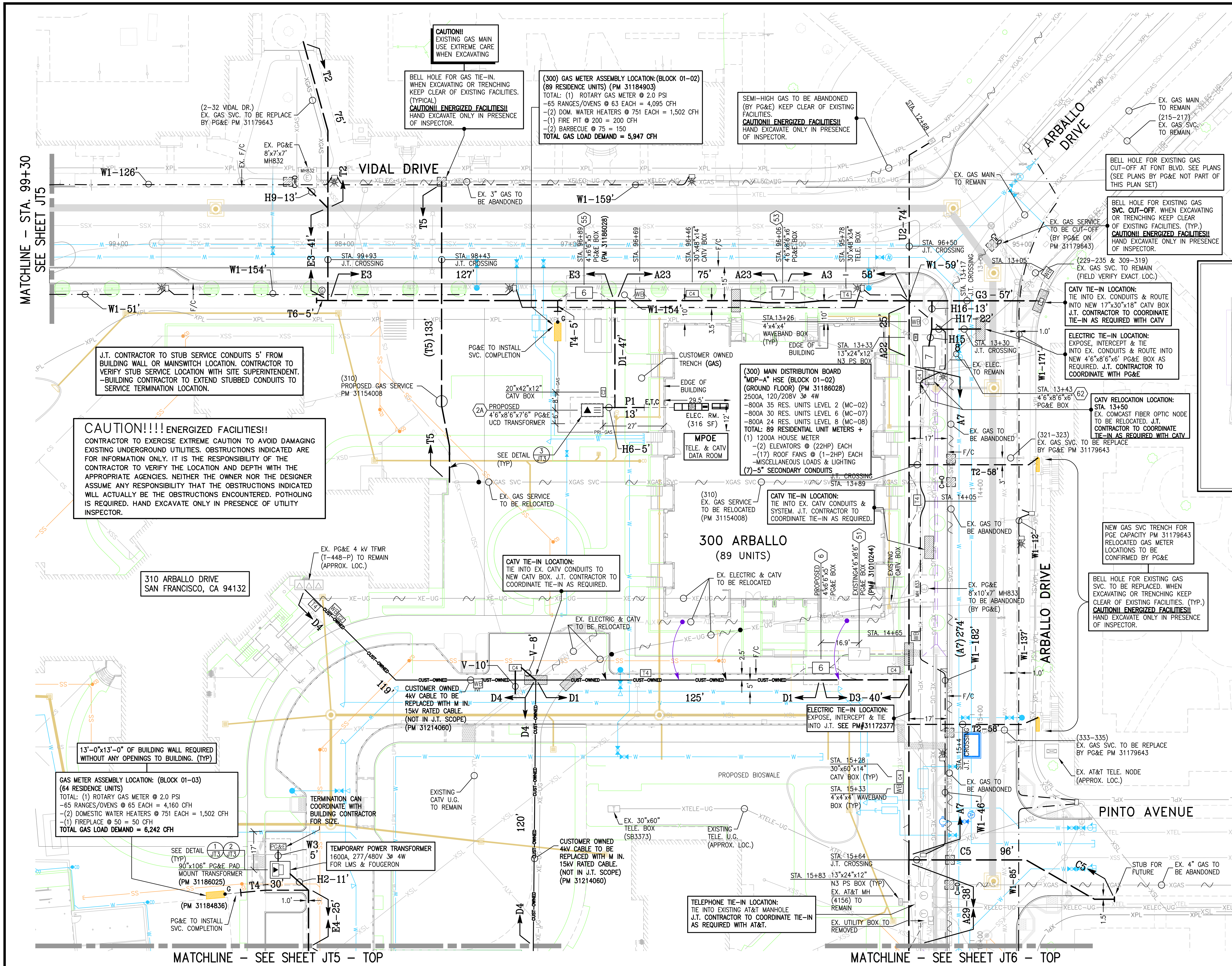
REVISIONS | SYMBOL | DATE | DESCRIPTION | APPROVED

GIACALONE DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

JOINT TRENCH SECTIONS

BKF
PARKMERCED
PHASE 1A - B1 & B6
SAN FRANCISCO CALIFORNIA

PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: CVN
CHECKED BY: DC
SCALE: AS SHOWN
JOB NUMBER: 14-193 B1 & B6
DATE LAST MODIFIED: 05-01-17
SHEET JT3B
OF 13 SHEETS



KEY MAP
NOT TO SCALE

JOINT TRENCH OCCUPANCY GUIDE

SECTION	G	T	C	S	P	OTHER
*A	X	X	X	X	X	
*B	X	X		X	X	
*C	X		X	X	X	
*D		X	X	X	X	
*E	X			X	X	
*F		X		X	X	
*G			X	X	X	
*H				X	X	
I	X	X	X			
J	X	X				
K	X		X			
L		X	X			
M	X	X	X	X		
N	X	X		X		
O	X		X	X		
P		X	X	X		
Q	X			X		
R		X		X		
S			X	X		
T	X					
U		X				
V			X			
W				X		

*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY

SEE SHEET JT3 FOR LEGEND

PROFESSIONAL ENGINEER CROWFOOT E11965 EXP. 9/30/17 ELECTRICAL STATE OF CALIFORNIA

NOTE:
EXISTING SERVICES TO LOW RISE BUILDINGS TO REMAIN.

TEMPORARY POWER TRANSFORMER
TEMPORARY TRANSFORMER WILL BE INSTALLED UNDER (PM 31186025) FOR 17 MONTHS AND REMOVED AFTER NEW TRANSFORMER IS INSTALLED AND OPERATIONAL.

R/W, P.U.E. & P.S.E. ACQUISITION NOTE:
CONTRACTOR TO VERIFY RIGHT OF WAY, PUBLIC UTILITY EASEMENT AND/OR PUBLIC SERVICE EASEMENT ACQUISITION WITH THE APPLICANT PRIOR TO CONSTRUCTION WITHIN AREAS OF QUESTION.

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
811
CALL BEFORE YOU DIG

REVISIONS			
SYMBOL	DATE	DESCRIPTION	APPROVED

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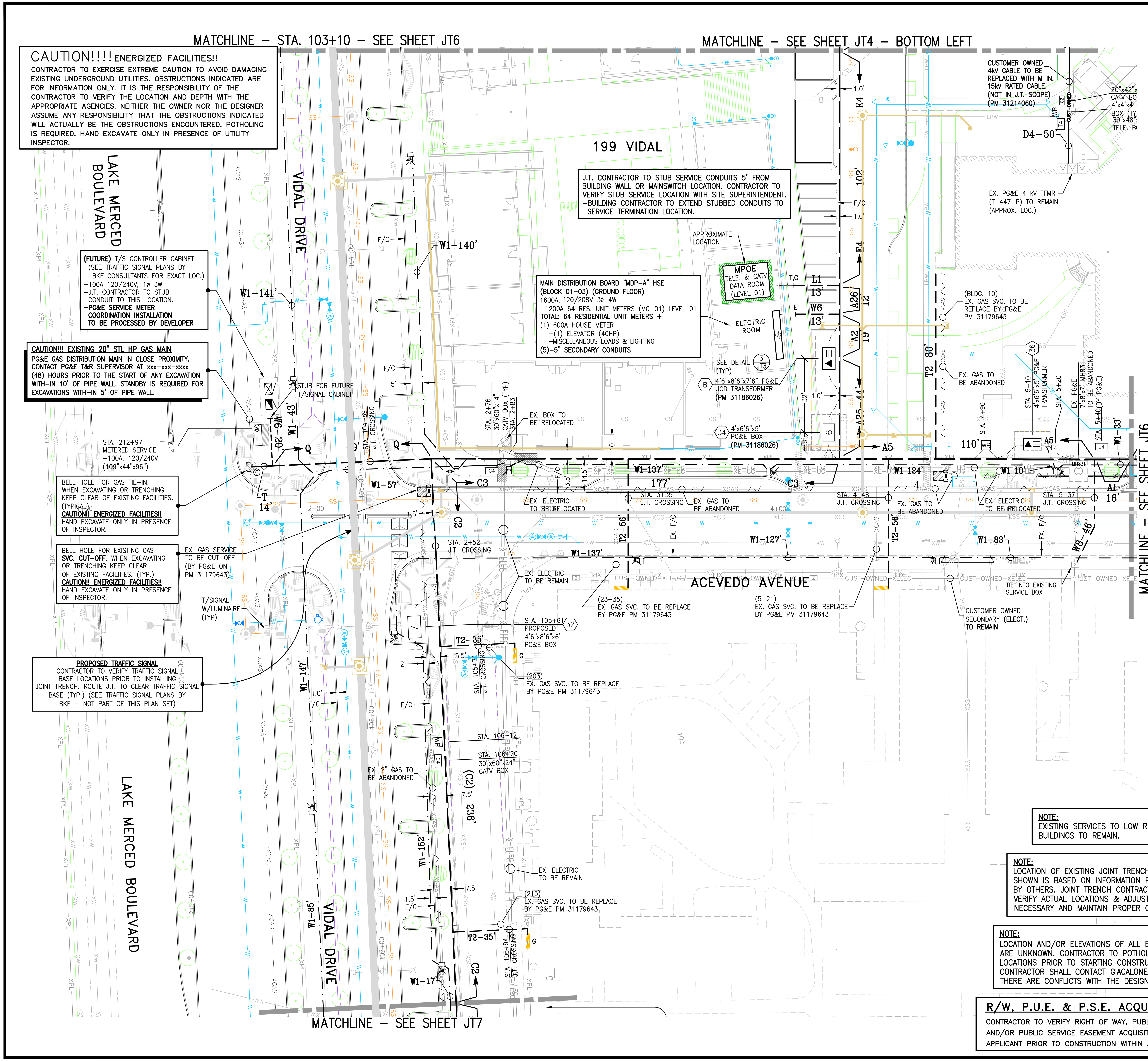
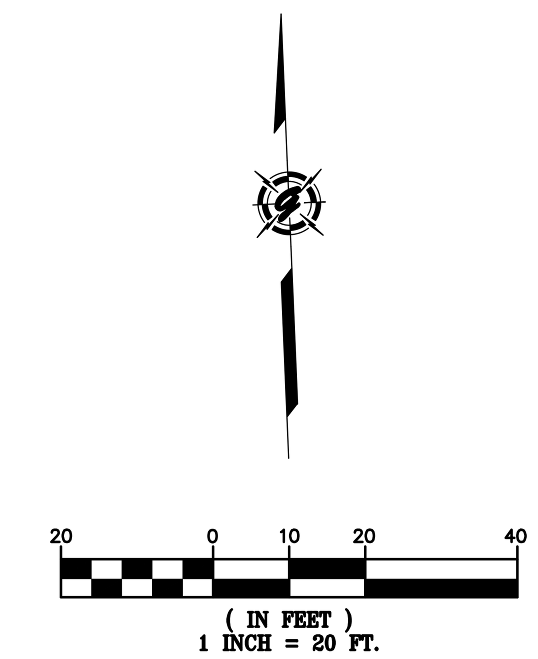
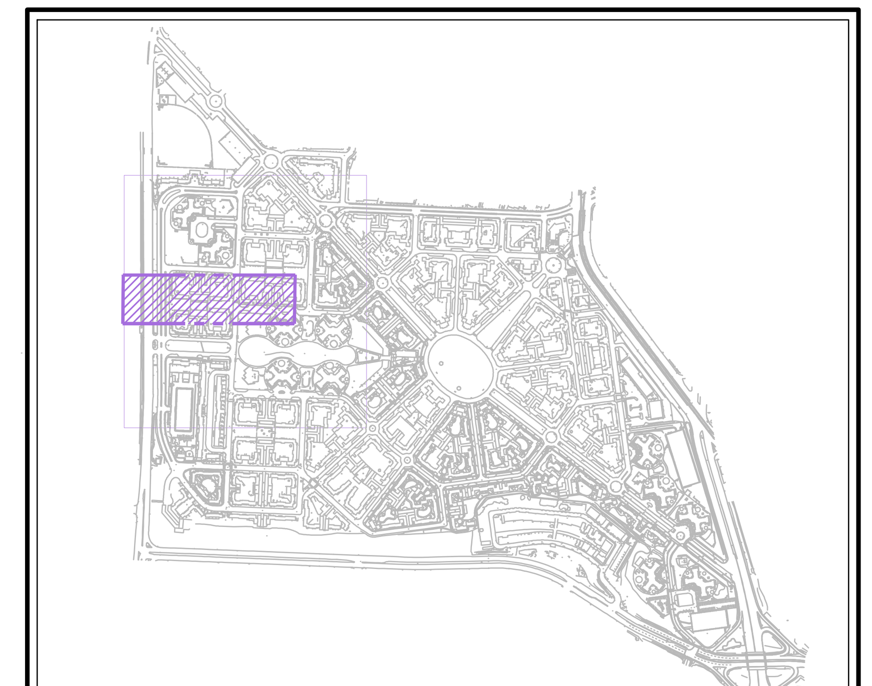
925.467.1740 | WWW.GIACALONEDESIGN.COM

JOINT TRENCH COMPOSITE PLAN
BKF
PARKMERCED
PHASE 1A – B1 & B6
SAN FRANCISCO CALIFORNIA

PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: CVN
CHECKED BY: DC
SCALE: 1"=20'
JOB NUMBER: 14-193 B1 & B6
DATE LAST MODIFIED: 05-01-17
SHEET JT4
OF 13 SHEETS






KEY MAP
NOT TO SCALE

JOINT TRENCH OCCUPANCY GUIDE

SECTION	G	T	C	S	P	OTHER
*A	X	X	X	X	X	
*B	X	X		X	X	
*C	X		X	X	X	
*D		X	X	X	X	
*E	X			X	X	
*F		X		X	X	
*G			X	X	X	
*H				X	X	
I	X	X	X			
J	X	X				
K	X		X			
L		X	X			
M	X	X	X	X		
N	X	X		X		
O	X			X		
P		X	X	X		
Q	X			X		
R		X		X		
S			X	X		
T	X					
U		X				
V			X			
W				X		

*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY

SEE SHEET JT3 FOR LEGEND

NOTE:
EXISTING SERVICES TO LOW RISE BUILDINGS TO REMAIN.

NOTE:
LOCATION OF EXISTING JOINT TRENCH FACILITIES SHOWN IS BASED ON INFORMATION PROVIDED BY OTHERS. JOINT TRENCH CONTRACTOR TO FIELD VERIFY ACTUAL LOCATIONS & ADJUST TRENCH AS NECESSARY AND MAINTAIN PROPER CLEARANCES.

NOTE:
LOCATION AND/OR ELEVATIONS OF ALL EXISTING UTILITIES ARE UNKNOWN. CONTRACTOR TO POTHOLE AND VERIFY LOCATIONS PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL CONTACT GIACALONE DESIGN IF THERE ARE CONFLICTS WITH THE DESIGN.

R/W, P.U.E. & P.S.E. ACQUISITION NOTE:
CONTRACTOR TO VERIFY RIGHT OF WAY, PUBLIC UTILITY EASEMENT AND/OR PUBLIC SERVICE EASEMENT ACQUISITION WITH THE APPLICANT PRIOR TO CONSTRUCTION WITHIN AREAS OF QUESTION.

REGISTERED PROFESSIONAL ENGINEER DAVID CROWFOOT E11965 EXP. 9/30/17 ELECTRICAL STATE OF CALIFORNIA

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CALL BEFORE YOU DIG

REVISIONS			
SYMBOL	DATE	DESCRIPTION	APPROVED

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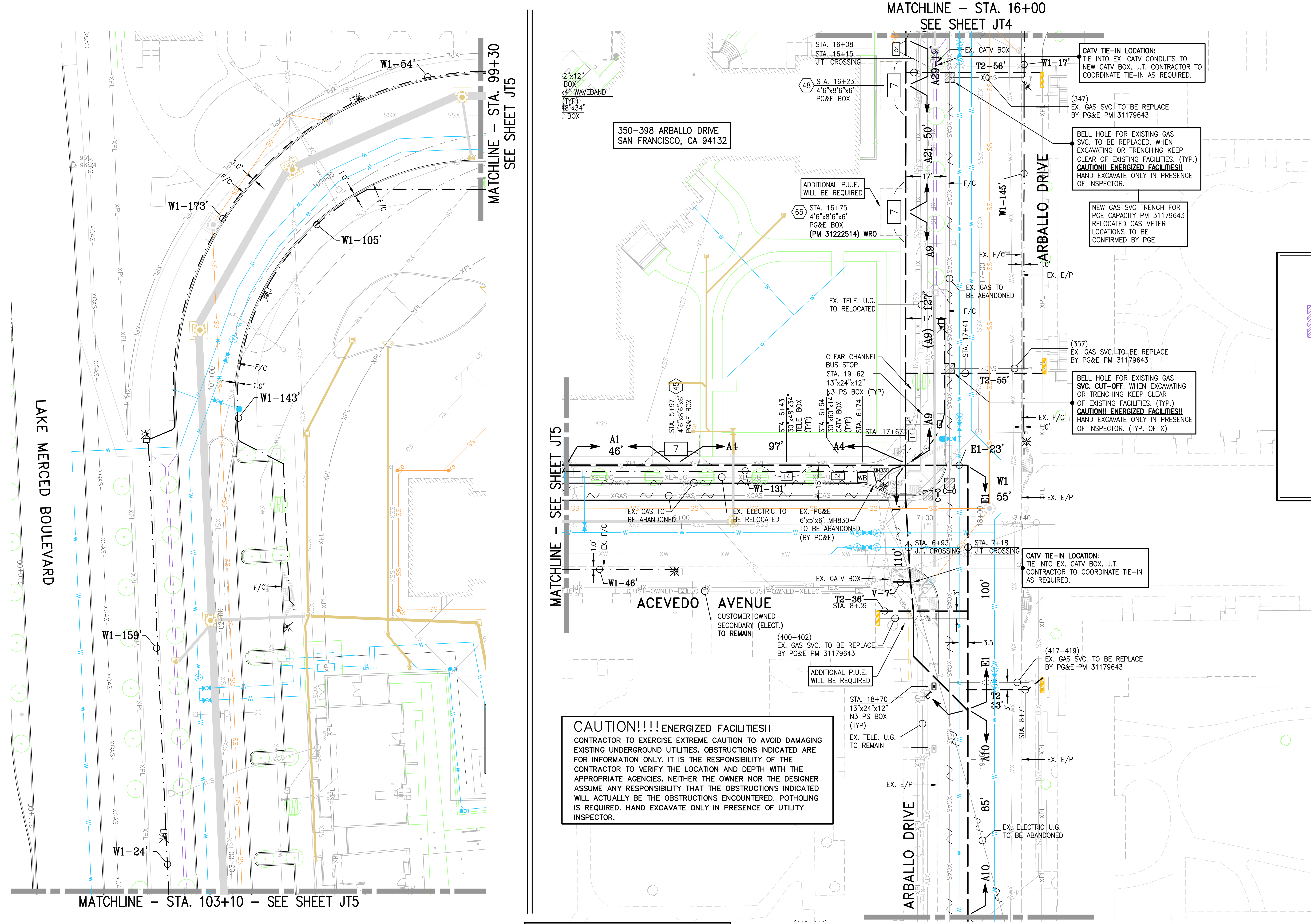
925.467.1740 | WWW.GIACALONEDESIGN.COM

JOINT TRENCH COMPOSITE PLAN

BKF
PARKMERCED
PHASE 1A – B1 & B6
SAN FRANCISCO CALIFORNIA

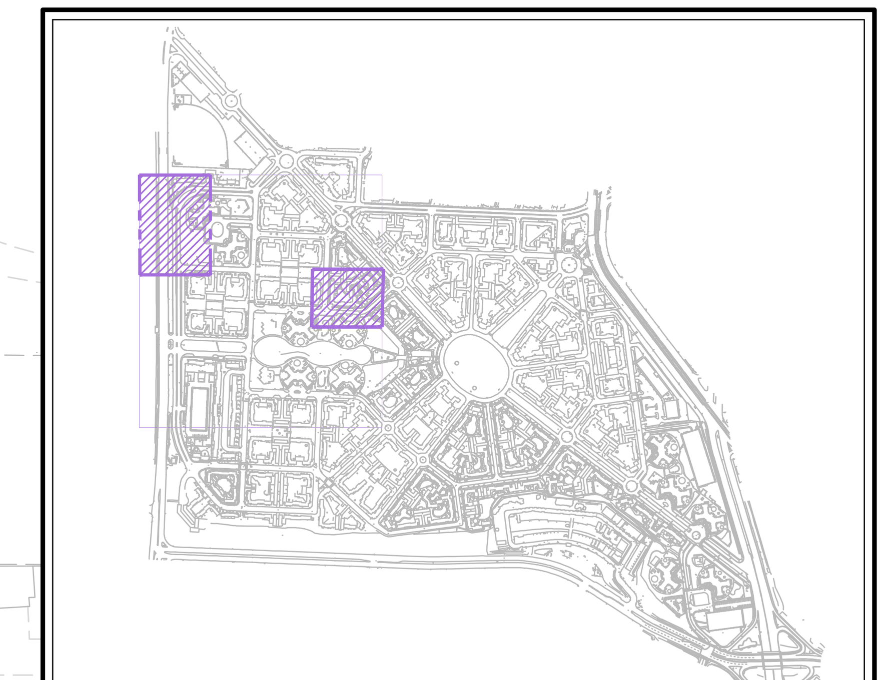
PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: CVN
CHECKED BY: DC
SCALE: 1"=20'
JOB NUMBER: 14–193 B1 & B6
DATE LAST MODIFIED: 05–01–17
SHEET JT5 OF 13 SHEETS



CAUTION!!!! ENERGIZED FACILITIES!!

CONTRACTOR TO EXERCISE EXTREME CAUTION TO AVOID DAMAGING EXISTING UNDERGROUND UTILITIES. OBSTRUCTIONS INDICATED ARE FOR INFORMATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND DEPTH WITH THE APPROPRIATE AGENCIES. NEITHER THE OWNER NOR THE DESIGNER ASSUME ANY RESPONSIBILITY THAT THE OBSTRUCTIONS INDICATED WILL ACTUALLY BE THE OBSTRUCTIONS ENCOUNTERED. POTHOLING IS REQUIRED. HAND EXCAVATE ONLY IN PRESENCE OF UTILITY INSPECTOR.

20 0 10 20 40
(IN FEET)
1 INCH = 20 FT.



KEY MAP
NOT TO SCALE

JOINT TRENCH OCCUPANCY GUIDE

SECTION	G	T	C	S	P	OTHER
*A	X	X	X	X	X	
*B	X	X		X	X	
*C	X		X	X	X	
*D		X	X	X	X	
*E	X			X	X	
*F		X		X	X	
*G			X	X	X	
*H				X	X	
I	X	X	X			
J	X	X				
K	X		X			
L		X	X			
M	X	X	X	X		
N	X	X		X		
O	X		X	X		
P		X	X	X		
Q	X			X		
R		X		X		
S			X	X		
T	X					
U		X				
V			X			
W				X		

*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY

NOTE:
LOCATION OF EXISTING JOINT TRENCH FACILITIES SHOWN IS BASED ON INFORMATION PROVIDED BY OTHERS. JOINT TRENCH CONTRACTOR TO FIELD VERIFY ACTUAL LOCATIONS & ADJUST TRENCH AS NECESSARY AND MAINTAIN PROPER CLEARANCES.

NOTE:
LOCATION AND/OR ELEVATIONS OF ALL EXISTING UTILITIES ARE UNKNOWN. CONTRACTOR TO POTHOLE AND VERIFY LOCATIONS PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL CONTACT GIACALONE DESIGN IF THERE ARE CONFLICTS WITH THE DESIGN.

EXISTING PAVEMENT & SIDEWALK

THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE PAVEMENT AND/OR SIDEWALK WHERE REMOVED OR DAMAGED AS A RESULT OF ITS OPERATION (UNLESS OTHERWISE NOTED). REPLACEMENT OF PAVEMENT AND/OR SIDEWALK TO BE PER CITY SPECIFICATIONS.

NOTE:
EXISTING SERVICES TO LOW RISE BUILDINGS TO REMAIN.

R/W, P.U.E. & P.S.E. ACQUISITION NOTE:
CONTRACTOR TO VERIFY RIGHT OF WAY, PUBLIC UTILITY EASEMENT AND/OR PUBLIC SERVICE EASEMENT ACQUISITION WITH THE APPLICANT PRIOR TO CONSTRUCTION WITHIN AREAS OF QUESTION.

PROFESSIONAL ENGINEER
DAVE CROWFOOT
E11965
EXP. 9/30/17
ELECTRICAL
STATE OF CALIFORNIA

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REVISIONS

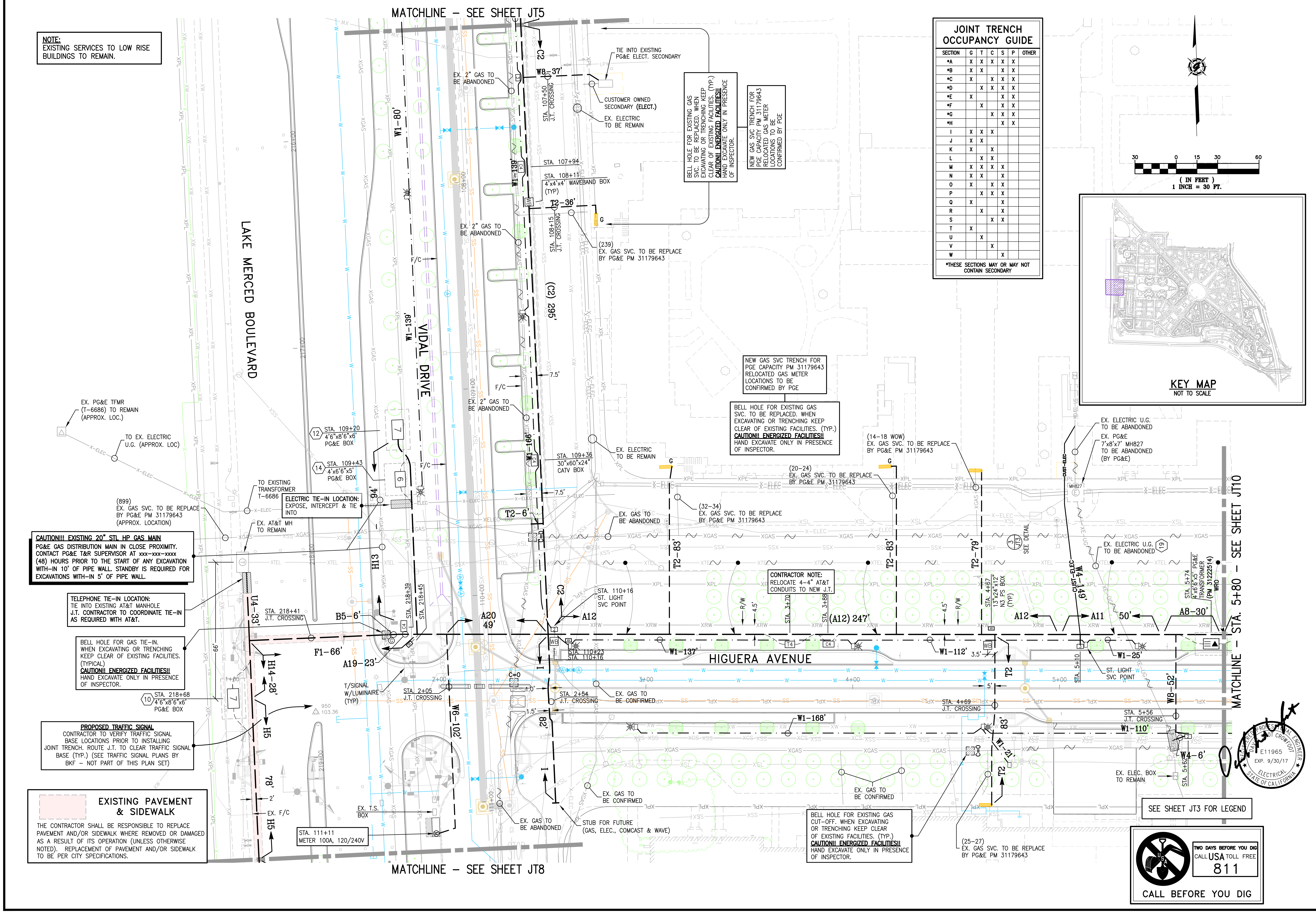
SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE
DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

JOINT TRENCH COMPOSITE PLAN

BKF
PARKMERCED
PHASE 1A – B1 & B6
SAN FRANCISCO CALIFORNIA

PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: CVN
CHECKED BY: DC
SCALE: 1"=20'
JOB NUMBER: 14–193 B1 & B6
DATE LAST MODIFIED: 05–01–17
SHEET JT6
OF 13 SHEETS



JOINT TRENCH OCCUPANCY GUIDE

SECTION	G	T	C	S	P	OTHER
*A	X	X	X	X	X	
*B	X	X		X	X	
*C	X		X	X	X	
*D		X	X	X	X	
*E	X			X	X	
*F		X		X	X	
*G			X	X	X	
*H				X	X	
I	X	X	X			
J	X	X				
K	X		X			
L		X	X			
M	X	X	X	X		
N	X	X		X		
O	X		X	X		
P		X	X	X		
Q	X			X		
R		X		X		
S			X	X		
T	X					
U		X				
V			X			
W				X		

*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY

REVISIONS

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GIACALONE DESIGN SERVICES, INC.
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BKF
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PHASE 1A – B1 & B6
SAN FRANCISCO CALIFORNIA

PROJECT MANAGER: DAVE CROWFOOT
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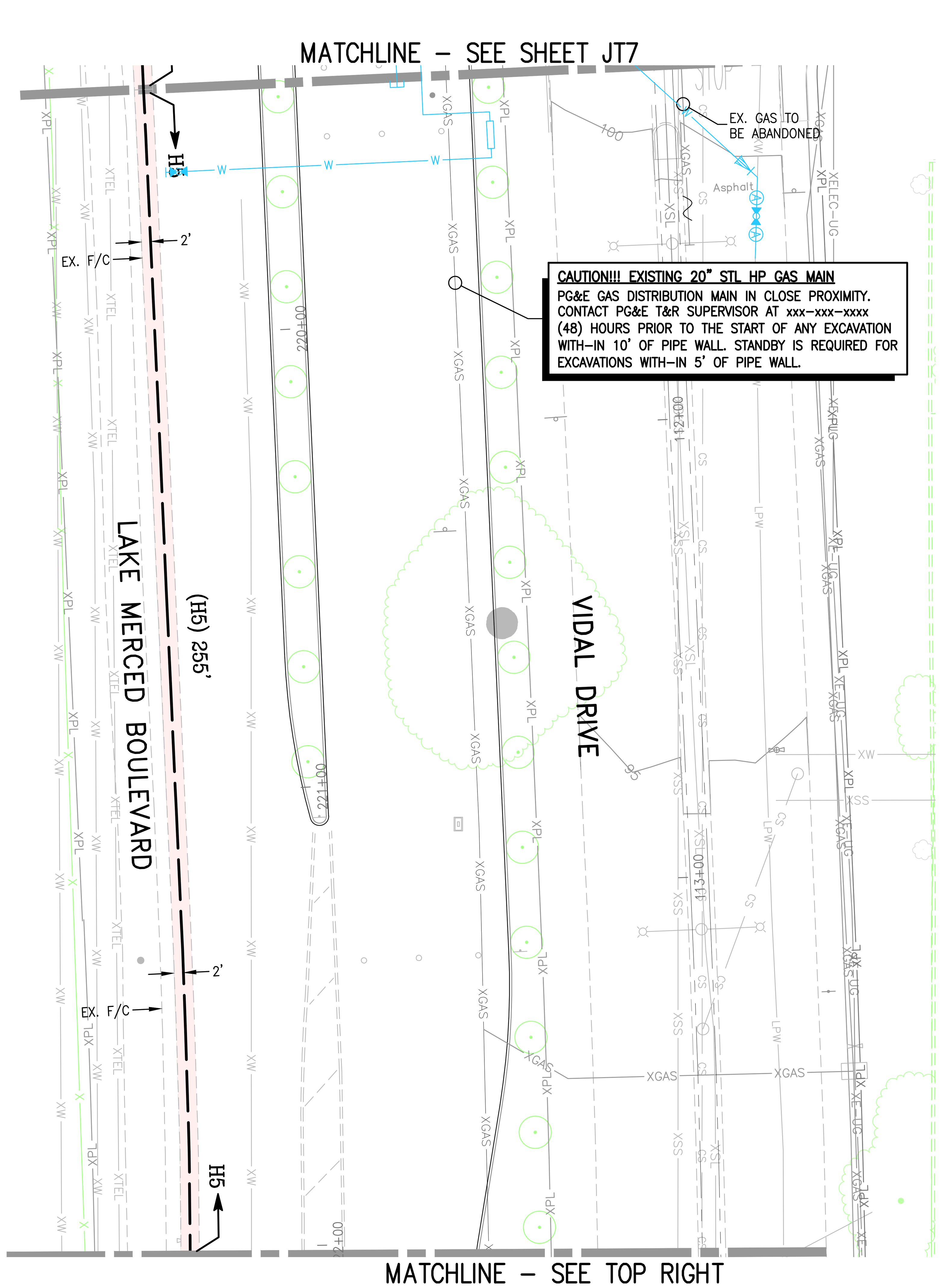
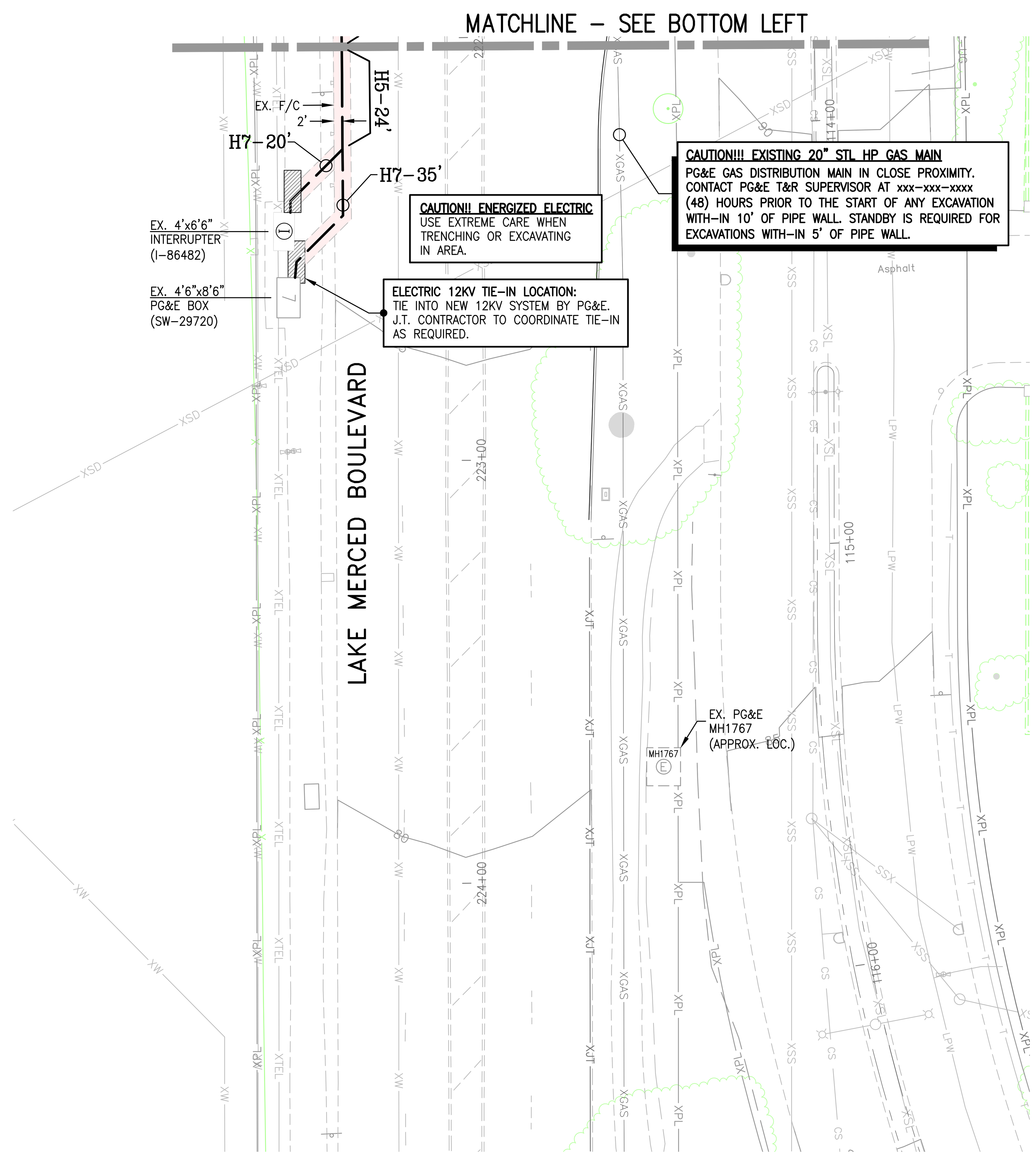
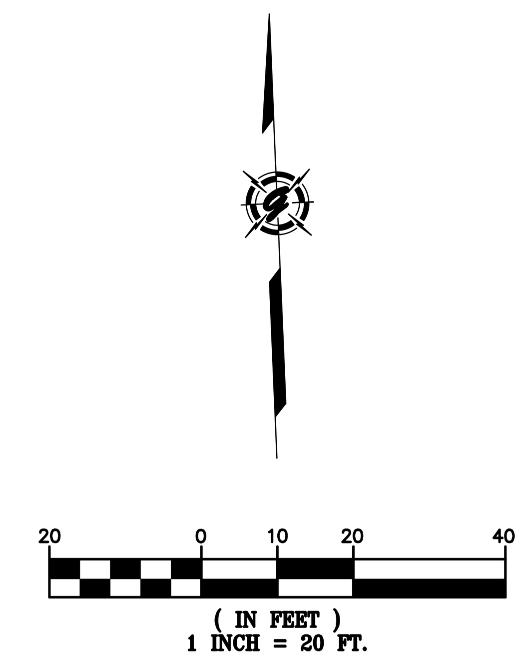
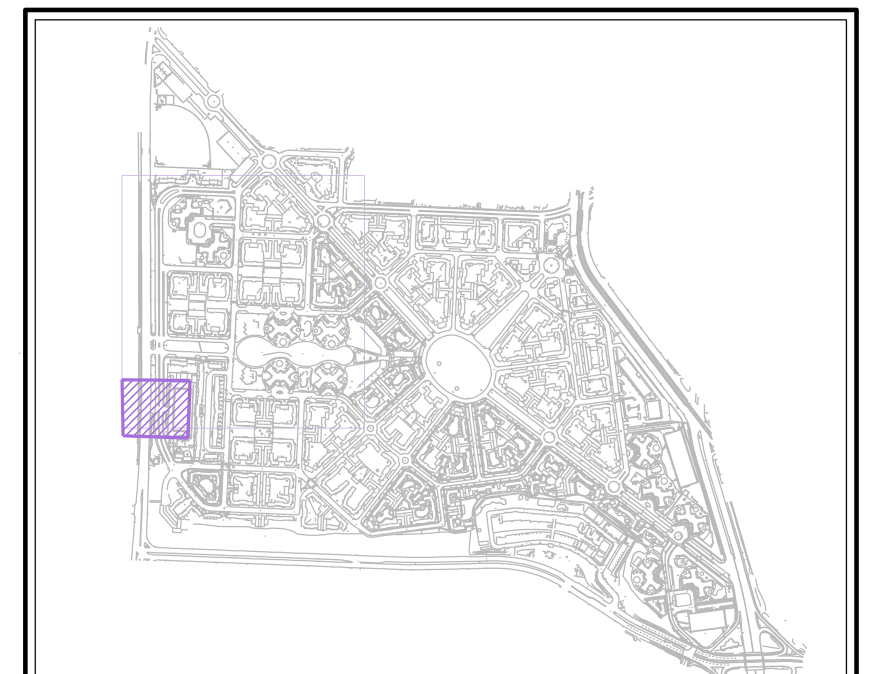
CHECKED BY: DC
SCALE: 1"=20'
JOB NUMBER: 14-193 B1 & B6
DATE LAST MODIFIED: 05-01-17
SHEET JT7 OF 13 SHEETS









KEY MAP
NOT TO SCALE

JOINT TRENCH OCCUPANCY GUIDE

SECTION	G	T	C	S	P	OTHER
*A	X	X	X	X	X	
*B	X	X		X	X	
*C	X		X	X	X	
*D		X	X	X	X	
*E	X			X	X	
*F		X		X	X	
*G			X	X	X	
*H				X	X	
I	X	X	X			
J	X	X				
K	X		X			
L		X	X			
M	X	X	X	X		
N	X	X		X		
O	X		X	X		
P		X	X	X		
Q	X			X		
R		X		X		
S			X	X		
T	X					
U		X				
V			X			
W				X		

*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY

SEE SHEET JT3 FOR LEGEND

CAUTION!!!! ENERGIZED FACILITIES!!
CONTRACTOR TO EXERCISE EXTREME CAUTION TO AVOID DAMAGING EXISTING UNDERGROUND UTILITIES. OBSTRUCTIONS INDICATED ARE FOR INFORMATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND DEPTH WITH THE APPROPRIATE AGENCIES. NEITHER THE OWNER NOR THE DESIGNER ASSUME ANY RESPONSIBILITY THAT THE OBSTRUCTIONS INDICATED WILL ACTUALLY BE THE OBSTRUCTIONS ENCOUNTERED. POTHOLING IS REQUIRED. HAND EXCAVATE ONLY IN PRESENCE OF UTILITY INSPECTOR.

NOTE:
EXISTING SERVICES TO LOW RISE BUILDINGS TO REMAIN.

EXISTING PAVEMENT & SIDEWALK
THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE PAVEMENT AND/OR SIDEWALK WHERE REMOVED OR DAMAGED AS A RESULT OF ITS OPERATION (UNLESS OTHERWISE NOTED). REPLACEMENT OF PAVEMENT AND/OR SIDEWALK TO BE PER CITY SPECIFICATIONS.

NOTE:
LOCATION OF EXISTING JOINT TRENCH FACILITIES SHOWN IS BASED ON INFORMATION PROVIDED BY OTHERS. JOINT TRENCH CONTRACTOR TO FIELD VERIFY ACTUAL LOCATIONS & ADJUST TRENCH AS NECESSARY AND MAINTAIN PROPER CLEARANCES.

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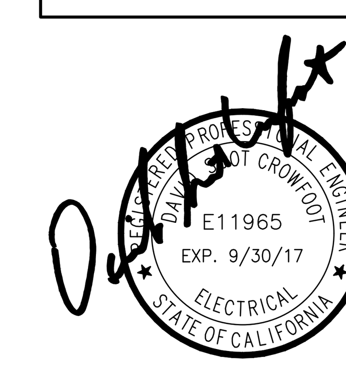
R/W, P.U.E. & P.S.E. ACQUISITION NOTE:
CONTRACTOR TO VERIFY RIGHT OF WAY, PUBLIC UTILITY EASEMENT AND/OR PUBLIC SERVICE EASEMENT ACQUISITION WITH THE APPLICANT PRIOR TO CONSTRUCTION WITHIN AREAS OF QUESTION.



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JOINT TRENCH COMPOSITE PLAN

BKF
PARKMERCED
PHASE 1A – B1 & B6
SAN FRANCISCO CALIFORNIA

PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: CVN
CHECKED BY: DC
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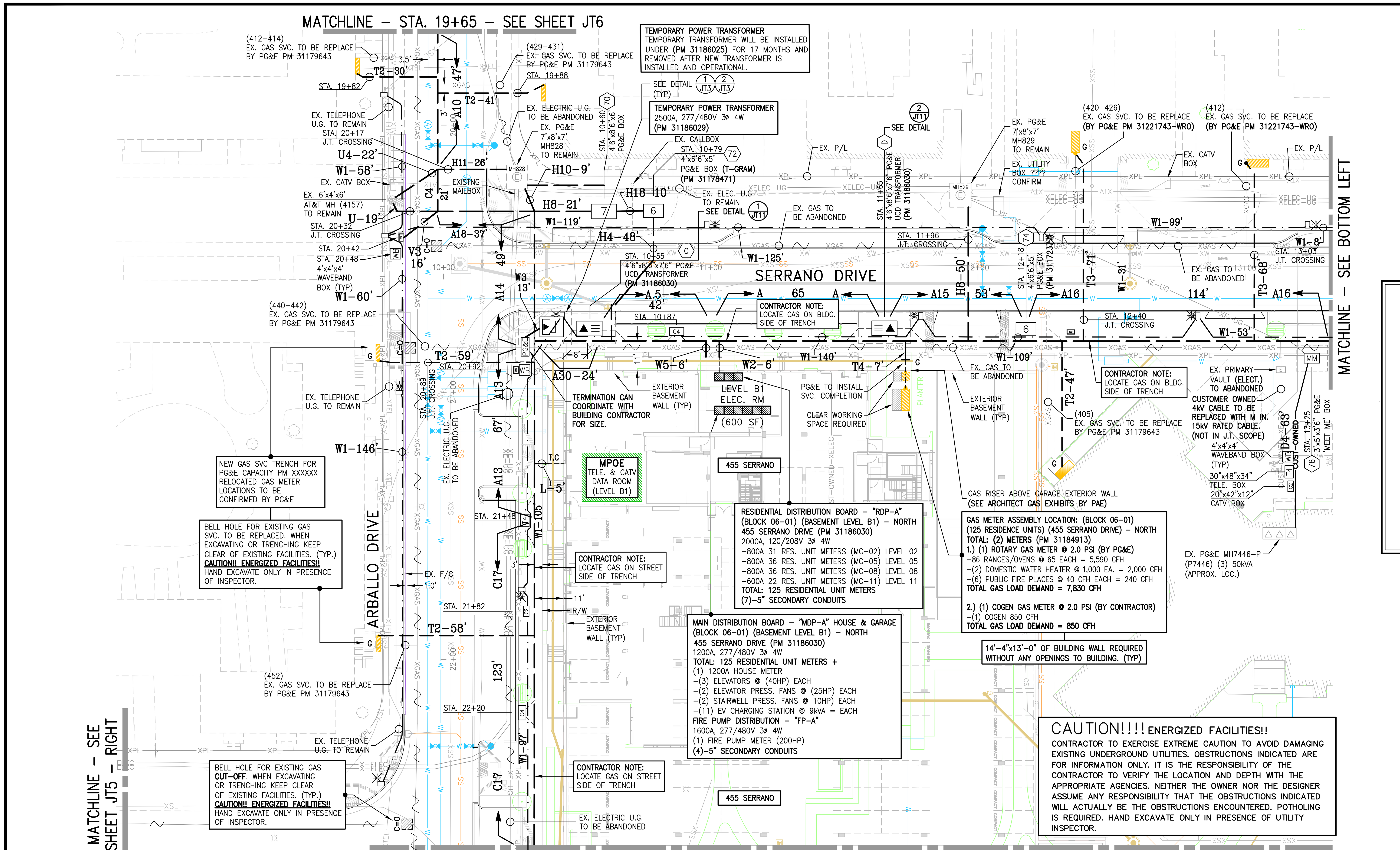
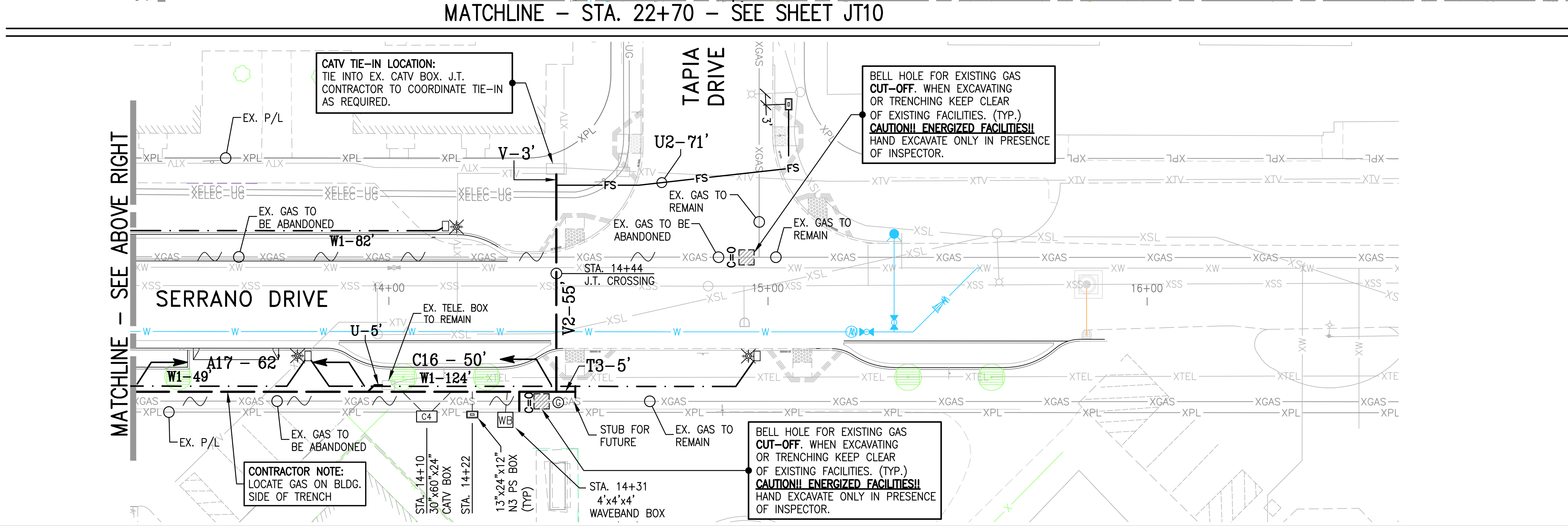
JOB NUMBER: 14–193 B1 & B6
DATE LAST MODIFIED: 05–01–17
SHEET
JT8
OF 13 SHEETS





NOTE:
EXISTING SERVICES TO LOW RISE BUILDINGS TO REMAIN.

J.T. CONTRACTOR TO STUB SERVICE CONDUITS 5' FROM BUILDING WALL OR MAINSWITCH LOCATION. CONTRACTOR TO VERIFY STUB SERVICE LOCATION WITH SITE SUPERINTENDENT.
–BUILDING CONTRACTOR TO EXTEND STUBBED CONDUITS TO SERVICE TERMINATION LOCATION.

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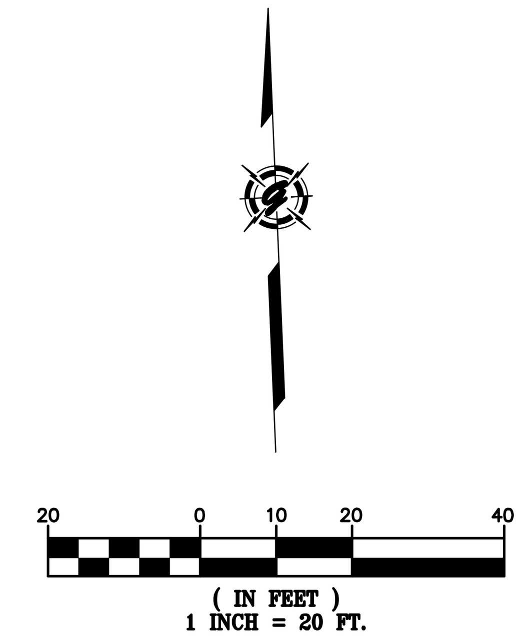

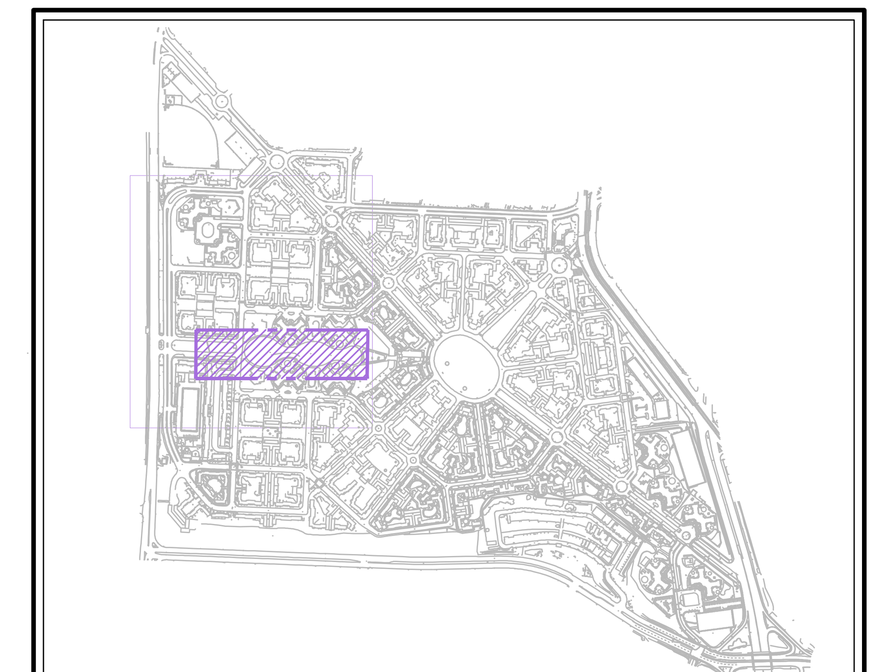

KEY MAP
NOT TO SCALE

JOINT TRENCH OCCUPANCY GUIDE

SECTION	G	T	C	S	P	OTHER
*A	X	X	X	X	X	
*B	X	X		X	X	
*C	X		X	X	X	
*D		X	X	X	X	
*E	X			X	X	
*F		X		X	X	
*G			X	X	X	
*H				X	X	
I	X	X	X			
J	X	X				
K	X		X			
L		X	X			
M	X	X	X	X		
N	X	X		X		
O	X		X	X		
P		X	X	X		
Q	X			X		
R		X		X		
S			X	X		
T	X					
U		X				
V			X			
W				X		

*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY

SEE SHEET JT3 FOR LEGEND

PRELIMINARY PLANS
NOT FOR CONSTRUCTION

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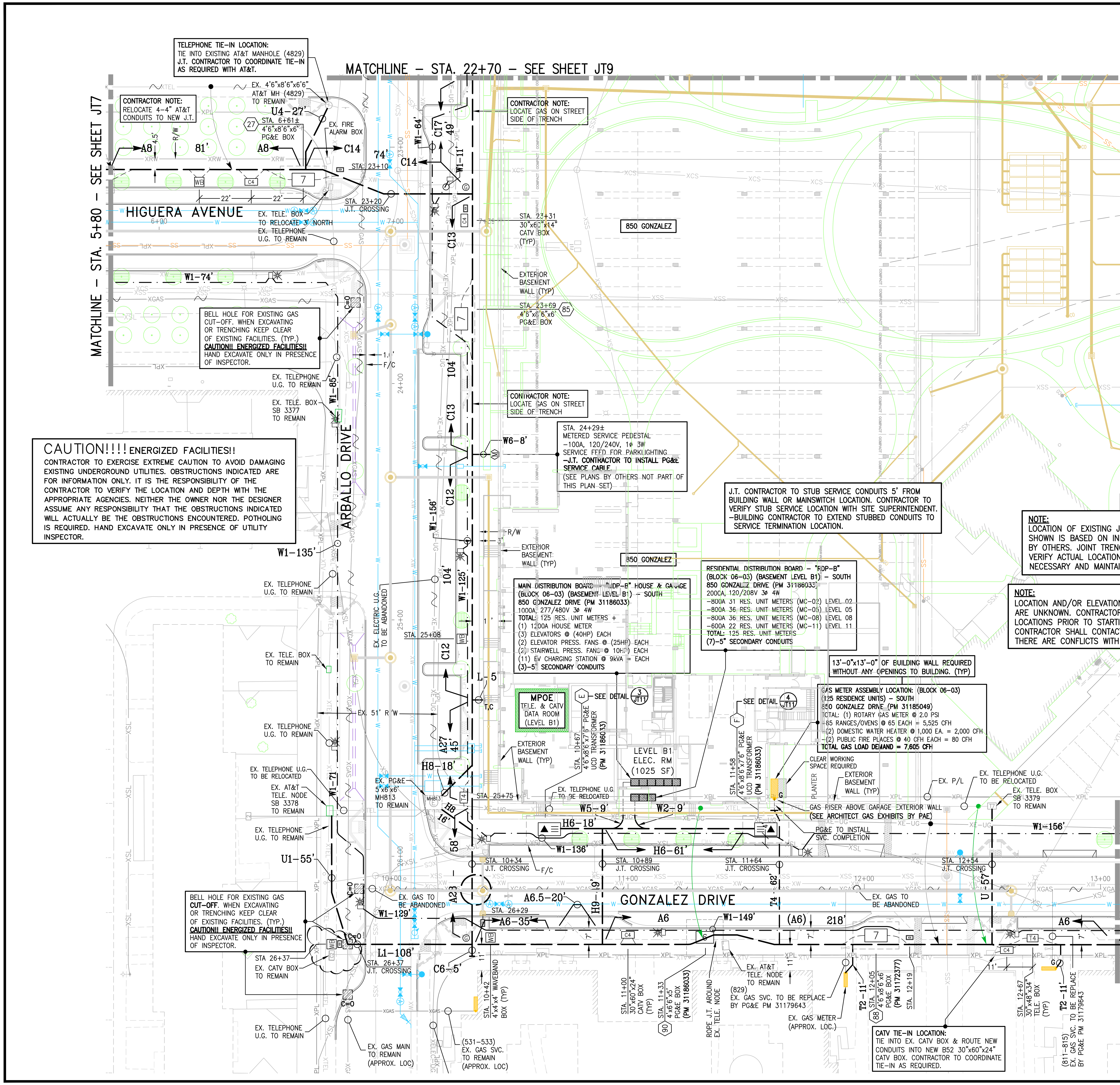
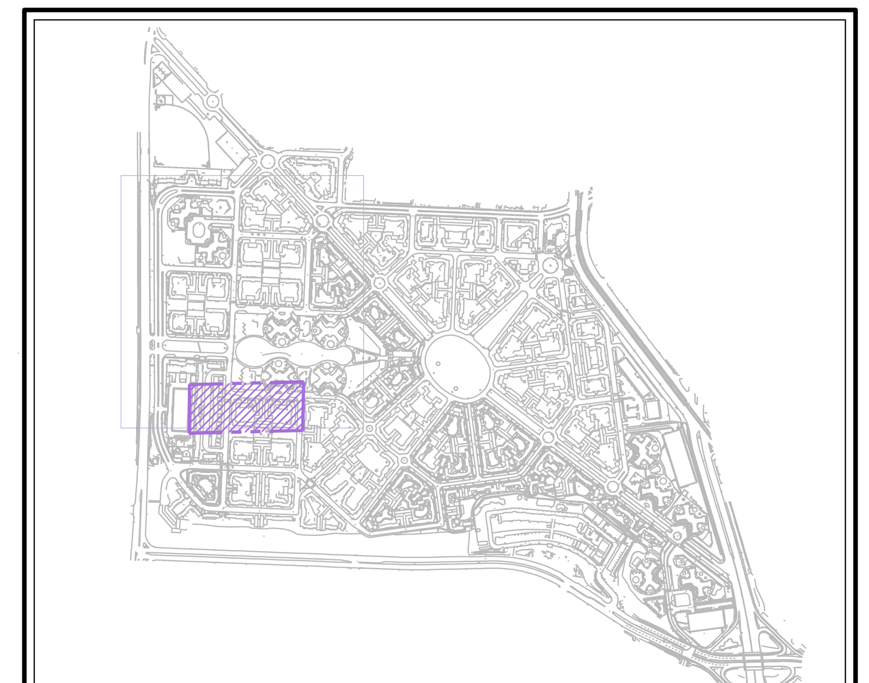
SHEET JT9 OF 13 SHEETS





KEY MAP
NOT TO SCALE

(IN FEET)
1 INCH = 20 FT.

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*A	X	X	X	X	X	
*B	X	X		X	X	
*C	X		X	X	X	
*D		X	X	X	X	
*E	X			X	X	
*F		X		X	X	
*G			X	X	X	
*H				X	X	
I	X	X	X			
J	X	X				
K	X		X			
L		X	X			
M	X	X	X	X		
N	X	X		X		
O	X		X	X		
P		X	X	X		
Q	X			X		
R		X		X		
S			X	X		
T	X					
U		X				
V			X			
W				X		

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NOTE:
EXISTING SERVICES TO LOW RISE BUILDINGS TO REMAIN.

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PRELIMINARY PLANS
NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER DAVE CROWFOOT E11965 EXP. 9/30/17 ELECTRICAL STATE OF CALIFORNIA

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JOINT TRENCH COMPOSITE PLAN

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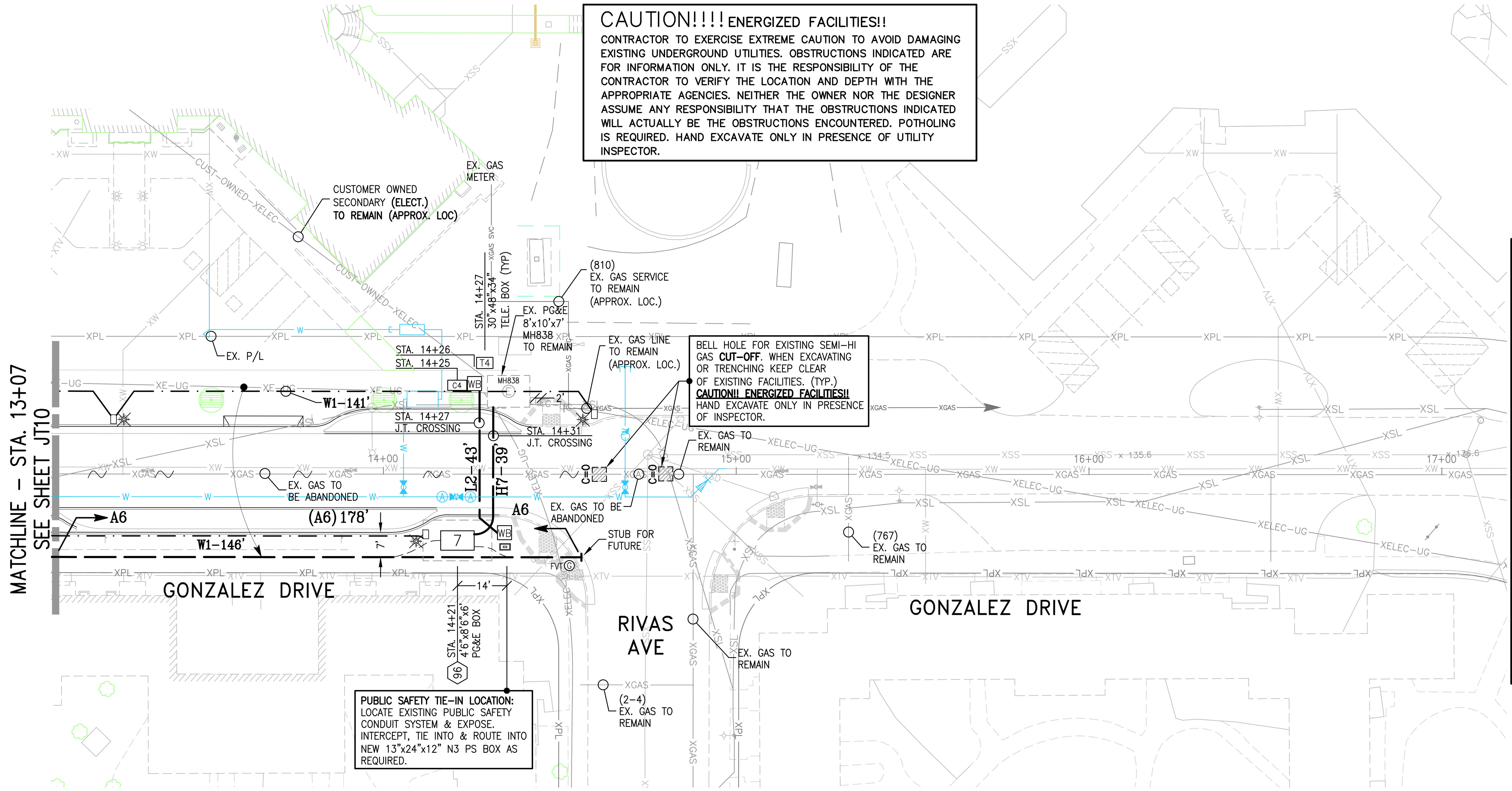
SHEET JT10
OF 13 SHEETS



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BELL HOLE FOR EXISTING SEMI-HI GAS **CUT-OFF**. WHEN EXCAVATING OR TRENCHING KEEP CLEAR OF EXISTING FACILITIES. (TYP.)
CAUTION!! ENERGIZED FACILITIES!!
HAND EXCAVATE ONLY IN PRESENCE OF INSPECTOR.

PUBLIC SAFETY TIE-IN LOCATION:
LOCATE EXISTING PUBLIC SAFETY CONDUIT SYSTEM & EXPOSE. INTERCEPT, TIE INTO & ROUTE INTO NEW 13"x24"x12" N3 PS BOX AS REQUIRED.

JOINT TRENCH OCCUPANCY GUIDE

SECTION	G	T	C	S	P	OTHER
*A	X	X	X	X	X	
*B	X	X		X	X	
*C	X		X	X	X	
*D		X	X	X	X	
*E	X			X	X	
*F		X		X	X	
*G			X	X	X	
*H				X	X	
I	X	X	X			
J	X	X				
K	X		X			
L		X	X			
M	X	X	X	X		
N	X	X		X		
O	X		X	X		
P		X	X	X		
Q	X			X		
R		X		X		
S			X	X		
T	X					
U		X				
V			X			
W				X		

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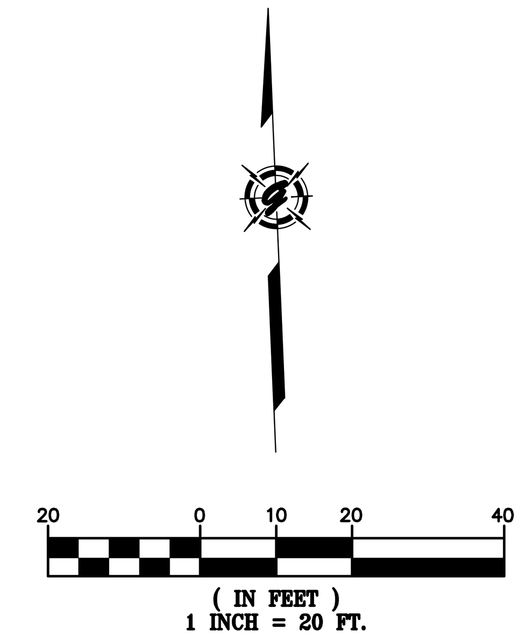
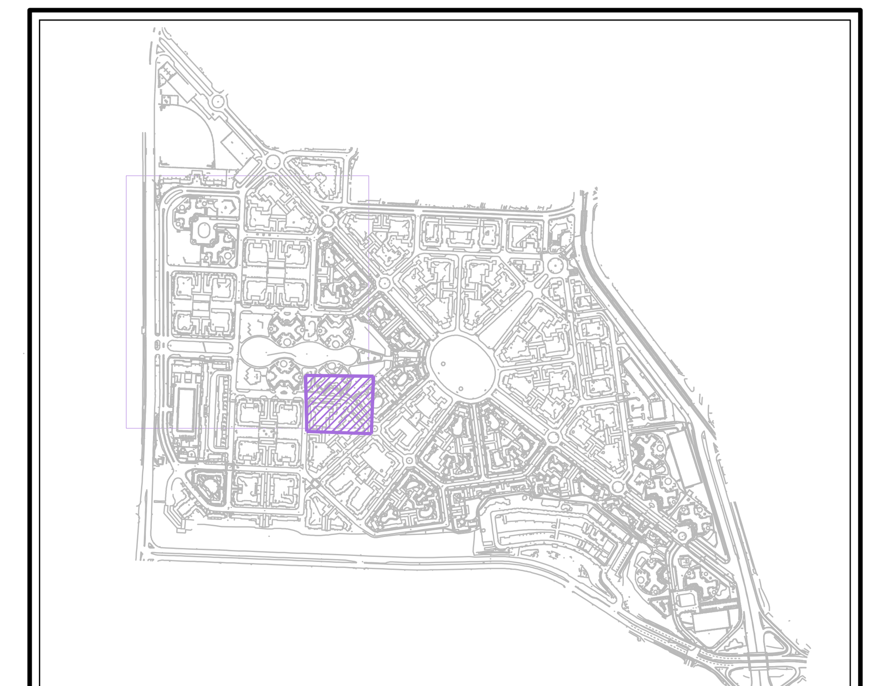
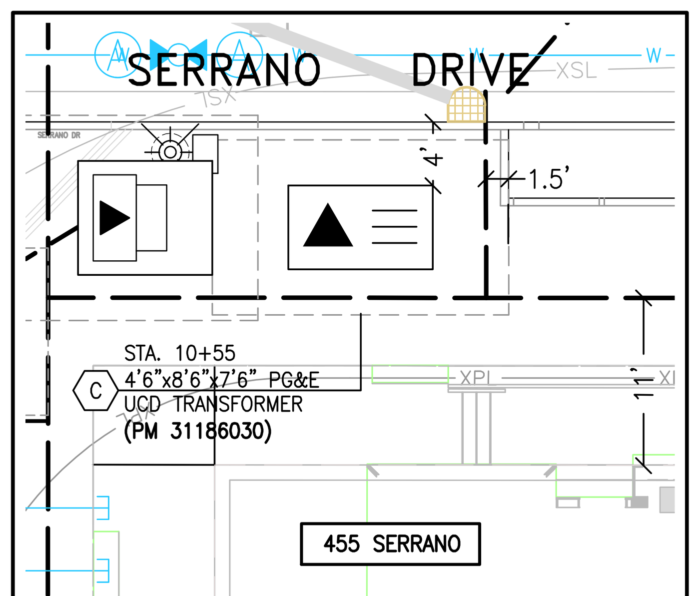
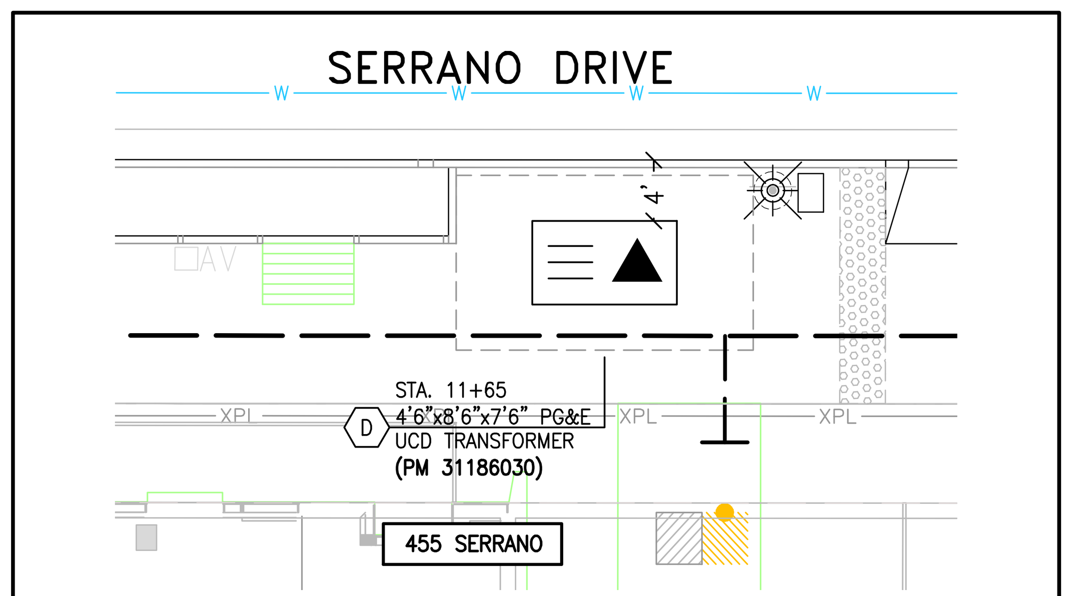




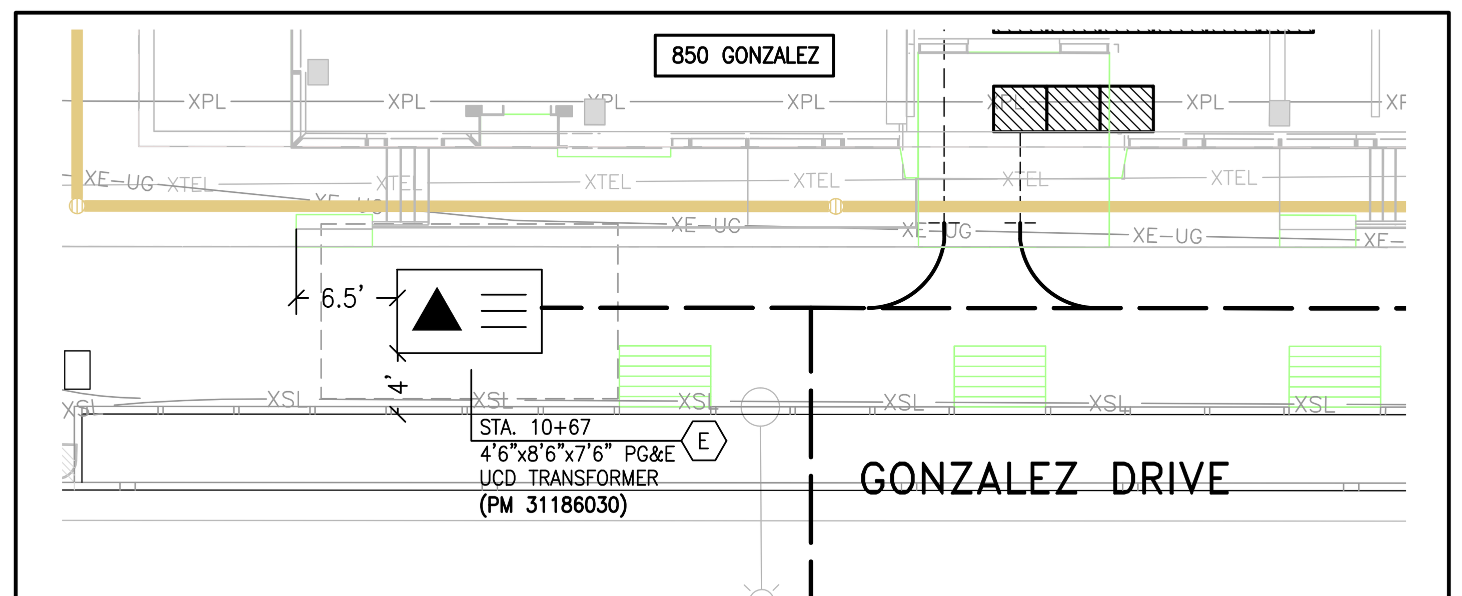
KEY MAP
NOT TO SCALE



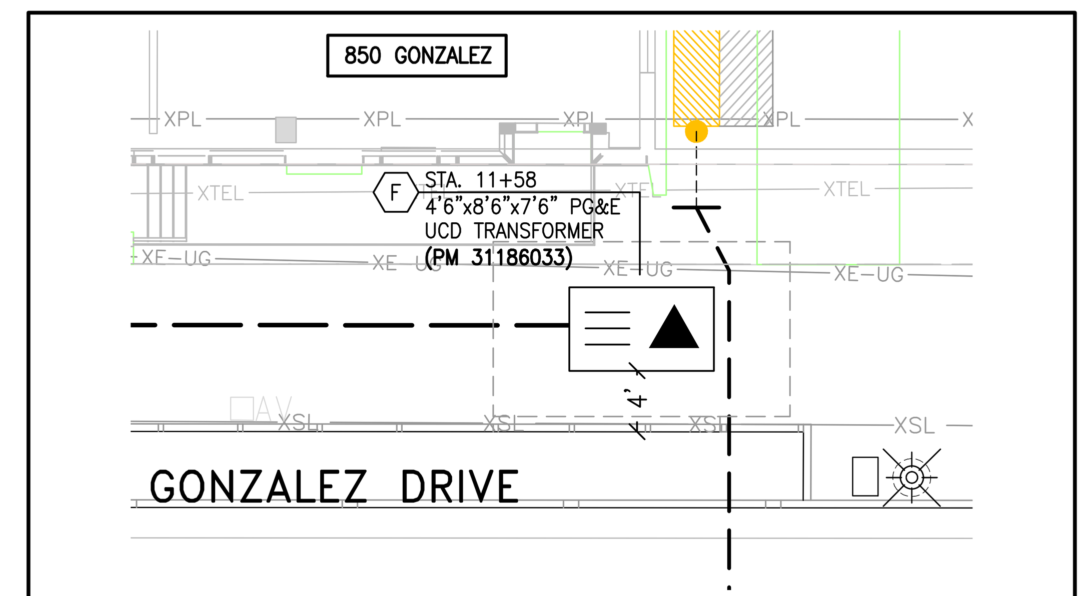
TRANSFORMER DETAIL 1
SCALE: 1"=10'



TRANSFORMER DETAIL 2
SCALE: 1"=10'



TRANSFORMER DETAIL 3
SCALE: 1"=10'



TRANSFORMER DETAIL 4
SCALE: 1"=10'

NOTE:
EXISTING SERVICES TO LOW RISE BUILDINGS TO REMAIN.

SEE SHEET JT3 FOR LEGEND

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PRELIMINARY PLANS
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PROFESSIONAL ENGINEER DAVE CROWFOOT E11965 EXP. 9/30/17 ELECTRICAL STATE OF CALIFORNIA

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JOINT TRENCH COMPOSITE PLAN

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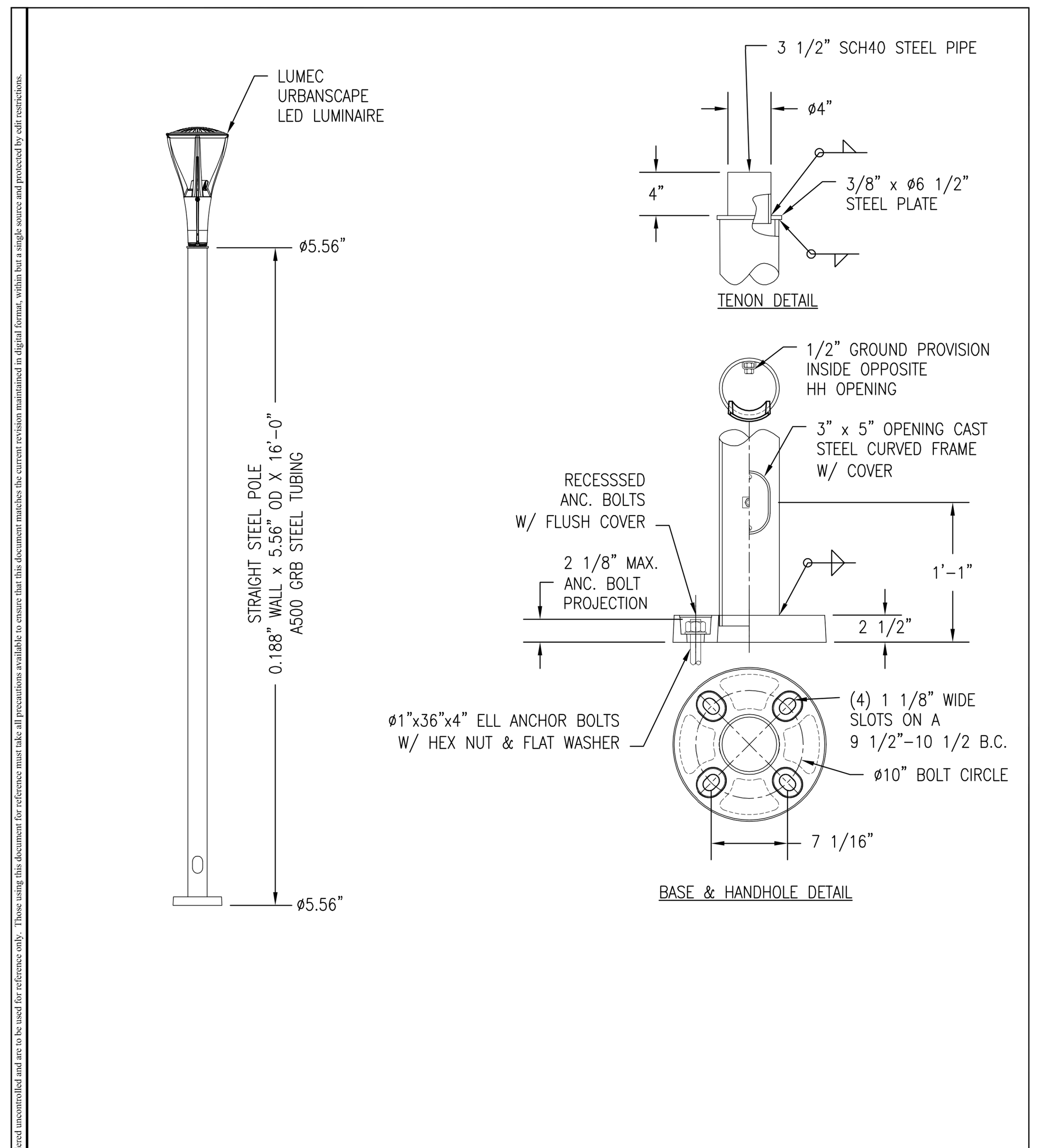
SHEET
JT11
OF 13 SHEETS

PARK MERCED PHASE 1A - B1 - B6 - PUBLIC STREET LIGHTING



STATE: CALIFORNIA | REQ# / SO# : | REV | DESCRIPTION | DATE | BY | CK

PROJECT NAME: CCSF URBANSCAPE, SAN FRANCISCO | REVISIONS

16'-0" STEEL LIGHTING STANDARD
DESIGN NUMBER B99-A675-Y1

Union Metal Corporation

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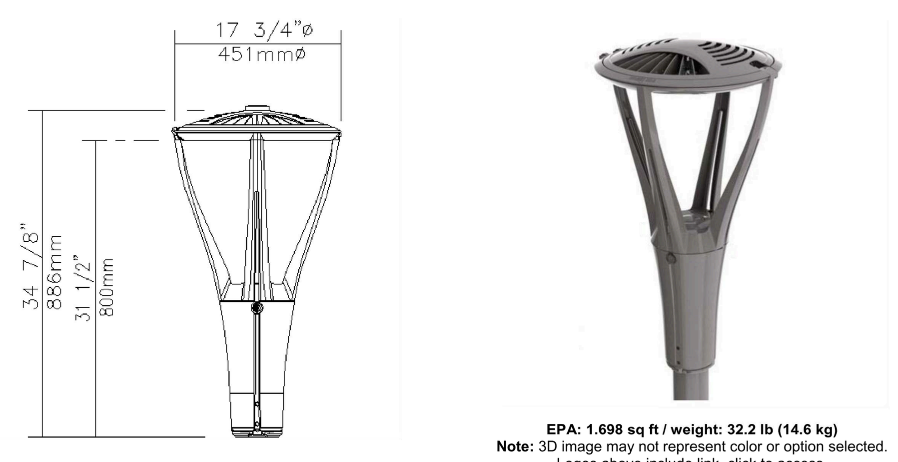
DESIGNED BY	CHECKED BY	DATE	SCALE	ENG REF
KMS		10/13/16		N99-A668

N99-A675 | REVISION R0 | SHEET 1 OF 1

Park Merced – City of San Francisco Lumec UrbanScape (3000K, roof mounted receptecle)



EPA: 1.698 sq ft / weight: 32.2 lb (14.6 kg)
Note: 3D image may not represent color or option selected.
Logos above include link, click to access.

Type F2
Qty 61 Luminaire [MPTC-016]-55W32LED3K-T-LE4-UNIV-HS-RCD-GY3TX

Description of Components:

Hood: Made of die cast A360.1 Aluminum alloy 0.100 (2.5mm) minimum thickness, mechanically assembled to the cast aluminum heat sink.

Guard: In a round shape with 4 arms and a built-in mechanical ring, this guard is a one piece die cast A360 Aluminum alloy 0.100 (2.5mm) minimum thickness, mechanically assembled to the fitter.

Access-Mechanism: A die cast A360.1 Aluminum alloy 0.100 (2.5mm) minimum thickness technical ring with latch and hinge.

Light Engine: LEDgine composed of 4 main components: **Heat Sink / LED Module / Optical System / Driver** Electrical components are RoHS compliant. Maximum ambient operating temperature up to 40C(104F) degrees.

Heat Sink: Made of cast aluminum optimising the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device).

Lens: Made of soda-lime tempered glass lens, mechanically assembled and sealed onto the ring of the access mechanism.

LED Module: LED type Philips Lumileds LUXEON T. Composed of 32 high-performance white LEDs. Color temperature as per ANSI/NEMA bin Warm White, 3000 Kelvin, CRI 70 Min. 75 Typical.

Optical System: (LE4), IES type IV (asymmetrical). Composed of high-performance optical polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. Street

PHILIPS LUMEC

NOTE:

THE LIGHT FIXTURE DETAIL ABOVE, HAS A "HS" CALLOUT WHICH IS FOR HOUSE SIDE SHIELDS TO BE ON ALL 61 POST TOP LIGHT FIXTURES.

STREET LIGHTING GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHALL, FEDERAL AND ALL APPLICABLE CITY, COUNTY, STATE AND LOCAL UTILITY COMPANY REGULATIONS; N.E.C., AND THE LATEST APPROVED STANDARDS OF I.E.E.E., A.S.A, N.E.M.A., U.L. AND OSHA WHERE APPLICABLE. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE. ALSO, ALL SECTIONS OF STATE OF CALIFORNIA PUC G.O. 95 SHALL APPLY.
2. MATERIALS FURNISHED UNDER THIS SECTION OF THESE SPECIFICATIONS FOR WHICH UL STANDARDS HAVE BEEN ESTABLISHED SHALL BE LISTED AND BEAR THE LABEL OF UNDERWRITER'S LABORATORIES, INC.
3. WHERE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS CONFLICT WITH THE DRAWINGS OR THESE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
4. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT FIRST NOTIFYING & OBTAINING APPROVAL FROM CITY/COUNTY AGENCY & GIACALONE DESIGN SERVICES, INC.
5. GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR ANY VARIANCE BETWEEN THESE PLANS AND THE ACTUAL FIELD CONDITIONS. CONTRACTOR SHOULD REVIEW PROJECT SITE PRIOR TO SUBMITTING ITS BID.
6. LEGEND SYMBOLS ARE SHOWN IN STREET AREA FOR CLARITY. INSTALL BEHIND CURB AND/OR SIDEWALK PER COUNTY SPECIFICATIONS KEEP CLEAR OF DRIVEWAYS AND PATHWAYS (TYPICAL).
7. ANY CHANGES OR MODIFICATIONS TO PROPOSED STREET LIGHT LOCATIONS SHALL BE APPROVED, IN WRITING, BY THE CITY/COUNTY AGENCY PRIOR TO INSTALLATION.

CONTRACTORS NOTES

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHALL, FEDERAL AND ALL APPLICABLE CITY, COUNTY, STATE AND LOCAL UTILITY COMPANY REGULATIONS; N.E.C., AND THE LATEST APPROVED STANDARDS OF I.E.E.E., A.S.A, N.E.M.A., U.L. AND OSHA WHERE APPLICABLE. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE. ALSO, ALL SECTIONS OF STATE OF CALIFORNIA PUC G.O. 95 SHALL APPLY.
2. THE ELECTRICAL CONTRACTOR SHALL INSTALL THE UNDERGROUND SERVICE FROM THE LUMINAIRE TO PG&E SERVICE POINT AND TERMINATE CONDUIT AND WIRES AT BOX AS DIRECTED BY PG&E
3. KEEP STREET LIGHTS A MINIMUM OF 3 FEET AWAY FROM THE EDGE OF DRIVEWAYS AND 3 FEET AWAY FROM LOW PRESSURE FIRE HYDRANTS, AND 6 FEET FROM HIGH PRESSURE HYDRANTS.
4. TWO OR MORE STREET LIGHTS ON THE SAME CIRCUIT SHALL BE WIRED TO BALANCE THE LOAD. (SEE WIRING DIAGRAM)
5. <u>CONDUIT AND FITTINGS</u>: ALL CONDUIT AND FITTINGS SHALL BE U.L. APPROVED. UNLESS OTHERWISE NOTED OR REQUIRED, USE MINIMUM 1-1/2" HOT DIPPED GALVANIZED CONDUIT AND FITTINGS, NOT SCHEDULE 40 PVC. MINIMUM RADIUS BENDS SHALL BE 18". PROVIDE PULL WIRE IN ALL EMPTY CONDUITS. ALL CROSSINGS TO BE PERPENDICULAR TO STREET.
6. <u>CONDUIT DEPTH</u>: CONDUIT SHALL NOT BE INSTALLED AT A DEPTH GREATER THAN 36" BELOW PAVEMENT SURFACE, NOR 30" BELOW GROUND SURFACE IN UNPAVED AREAS: AND MINIMUM DEPTH OF CONDUIT SHALL BE 24" IN ROADWAY AREAS AND 18" IN SIDEWALK AND UNPAVED AREAS.
7. <u>CABLE</u>: ALL WIRING SHALL BE THW INSULATION TYPE. THWN IS NOT ACCEPTABLE FOR STREET LIGHTING. NO. 10 AWG WITH THW SOLID TYPE INSULATION IN POLE MAY BE USED. ALL FIELD WIRING IS A MINIMUM OF #8 STRANDED COPPER PER N.E.C. AND INSULATED FOR 600 VOLT.
8. <u>SPLICE BOXES</u>: FURNISH AND INSTALL AS PER SFDPW STANDARD PLANS AND SPECIFICATIONS NOT PER CALTRANS STANDARDS.
9. <u>FUSES</u>: EACH POLE SHALL BE FUSED WITH WATERPROOF IN-LINE FUSE HOLDERS (BUSHMAN HEB SERIES) AT EACH ADJACENT SPLICE BOX WITH 10 AMP FUSE.
10. <u>SPLICING</u>: SPLICES SHALL BE MADE WITH 'C' SHAPED COMPRESSION CONNECTORS OR SPLIT BOLT CONNECTORS. INSTALLED CONNECTORS SHALL BE WRAPPED WITH A MINIMUM OF 4 HALF-LAPPED LAYERS OF RUBBER OR RUBBER MASTIC TAPE. OVERLAP WITH AT LEAST 2 HALF LAPPED LAYERS OF SCOTCH 33+ VINYL OR APPROVED PREMIUM TAPE. AFTER TAPING SPLICES, APPLY SCOTCHKOTE ELECTRICAL COATING EVENLY OVER SPLICES OR AS RECOMMENDED BY THE MANUFACTURER.
11. <u>POLE NUMBERS</u>: COORDINATE WITH SFPUC - POWER ENTERPRISE (BLHP) STREET LIGHTING DEPARTMENT.
12. <u>TRENCH</u>: CONDUIT CAN BE PLACED IN JOINT TRENCH. CONDUIT LAYOUT IS SHOWN SCHEMATICALLY. SEE COMPOSITE DRAWING FOR TRENCH LOCATION. ANY INCIDENTAL TRENCHING NOT PROVIDED BY TRENCHING AGENT IS CONTRACTOR'S RESPONSIBILITY.
13. CONTRACTOR TO INSTALL CIRCUIT GROUNDING AND GROUND WIRE IN CONDUIT AS PER PLANS.
14. CENTERLINE OF STREET LIGHTS SHALL BE LOCATED ON THE LOT LINE UNLESS OTHERWISE NOTED ON THESE PLANS.
15. A LIST OF ALL MATERIALS & SUPPLIERS SHOULD BE PROVIDED TO AUTHORITY HAVING JURISDICTION FOR APPROVAL.
16. <u>BURN TEST</u>: DAY BURN FOR 24 HOURS FOR 5 CONSECUTIVE DAYS FOR COUNTY INSPECTOR APPROVAL.
17. GROUNDING AND BONDING SHALL PROPERLY INTERCONNECT ALL METAL PARTS OF THE SYSTEM.
18. ALL CONNECTIONS SHALL BE SECURED WITH LOCK NUTS AND INSULATED BUSHINGS.
19. CONTRACTOR SHALL CONSULT LOCAL AGENCIES FOR THEIR CIRCUIT GROUNDING REQUIREMENTS. IF GROUND WIRE IS REQUIRED IN CONDUIT, INSTALL ACCORDINGLY.
20. WATERPROOF INLINE FUSES SHALL BE PROVIDED IN THE SPLICE BOX NEXT TO EACH NEW OR RELOCATED STREET LIGHT. IF THE DESIGN IS SUCH THAT NO BOXES WILL BE INSTALLED, THE SPLICE SHALL BE LOCATED IN THE HANDHOLE.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE OPERATING SYSTEM.
22. EACH STREET LIGHT SHALL BE CONTROLLED BY A PHOTO ELECTRIC CELL MOUNTED ON TOP OF EACH LUMINAIRE OR THE TOP OF EACH POLE DEPENDING UPON THE MANUFACTURER'S RECOMMENDATIONS OR CONTROLLED BY OTHER MEANS AS SHOWN ON THE DRAWINGS.
23. FOUNDATION MOUNTED ELECTROLIERS SHALL BE PLUMBED BY ADJUSTING THE NUTS ON THE ANCHOR BOLTS BEFORE THE FOUNDATION CAP IS PLACED. SHIMS OR OTHER SIMILAR DEVICES FOR PLUMBING OR RAKING WILL NOT BE PERMITTED. AFTER PLUMBING THE STANDARD, ANCHOR BOLTS SHALL BE CUT OFF 1/4" TO ½" ABOVE THE NUTS AND THE EXPOSED SURFACES SHALL BE REPAIRED AS INDICATED BY THE INSPECTING AGENCY.
24. AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE STREET LIGHT ADMINISTRATION DEPT. OF THE COUNTY PRIOR TO ACCEPTANCE OF THE STREET LIGHTING SYSTEM.
25. CLEARANCE BETWEEN STREETLIGHT AND TREE* SHALL BE IN ACCORDANCE WITH SFDPW ORDINANCE NO. 165-95:
    1. SMALL TREE - NO CLOSER THAN 9 FEET.
    2. MEDIUM TREE - NO CLOSER THAN 15 FEET.
    3. LARGE TREE - NO CLOSER THAN 21 FEET.
    * MATURE SIZE OF TREE DETERMINED BY SFDPW STREET TREE PLANTING GUIDE.
26. EACH STREET LIGHT POLE MUST HAVE AN INDIVIDUAL PULL BOX INSTALLED IN THE SIDEWALK WITHIN 3 TO 5 FEET OF THE BASE FOUNDATION.
27. FOR ADDITIONAL INFORMATION, REFER TO BLHP STREETLIGHTING POLICY.

Park Merced – City of San Francisco Lumec UrbanScape (3000K, roof mounted receptecle)

side indicated. **Complete with a (HS) House side shield.**Dark Sky compliant with 0% uplight and U0 per IESNA TM-15.

Driver: High power factor of 90% minimum. Electronic driver, operating range 50/60 Hz. **Auto-adjusting universal voltage input from 120 to 277 VAC rated for both application line to line or line to neutral, Class I**, THD of 20% max. Maximum ambient operating temperature from -40F(-40C) to 130F(55C) degrees.Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 221F(105C) degrees. **Driver comes with dimming compatible 0-10 volts.**

The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built-in driver surge protection of 2.5kV (min).

Surge Protector: Surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) model specification for LED roadway luminaires electrical immunity requirements for High Test Level 10kV / 10kA.

Fitter: Made of die cast A360.1 Aluminum alloy 0.100 (2.5mm) minimum thickness, the fitter is complete with a watertight access door giving access to the driver rated IP66, and a terminal block that accepts (#2 max.) wires from the primary circuit. Comes with an easy self adjusting system with two (2) set screws 3/8 16 UNC for ease of maintenance and installation. Fits on a 4"(102mm) outside diameter by 4"(102mm) long tenon.

* **Luminaire Options: (RCD)**, Receptacle with 5 pins enabling dimming, can be used with a twist-lock control device or photoelectric cell or a shorting cap. Use of photocell or shorting cap is required to ensure proper illumination. **(MPTC-016)** RCD receptacle located on top of the fixture.

NOTE:

PHOTO CONTROL RECEPTACLE (RCD) SHALL BE ORDERED FOR ALL 61 POST TOP LIGHTS.

PHILIPS LUMEC

Park Merced – City of San Francisco Lumec UrbanScape (3000K, roof mounted receptecle)

LED light engine technical information for MPTC and MPTR

LED = Philips Lumileds Luxeon T, CRI = 70, CCT = 4000K (+/- 350K)

System (LED + driver) rated life = 100,000 hrs [1] / 90,000 hrs [2]

LED Module	Typical delivered lumens	Typical system wattage [3] (W)	Typical current @ 120 V (A)	Typical current @ 208 V (A)	Typical current @ 240 V (A)	Typical current @ 277 V (A)	LED current (mA)	HID equivalent [4]	Luminaire Efficacy Rating (Lm/W)	BUG rating
16W16LED4K-T-LE3	1691	20	0.17	0.11	0.10	0.09	350	50-70	84.6	B0-U0-G0
16W16LED4K-T-LE2	1704	20	0.17	0.11	0.10	0.09	350	50-70	85.2	B1-U0-G0
16W16LED4K-T-LE3W	1704	20	0.17	0.11	0.10	0.09	350	50-70	85.2	B0-U0-G1
16W16LED4K-T-LE4	1704	20	0.17	0.11	0.10	0.09	350	50-70	85.2	B0-U0-G0
16W16LED4K-T-LE5	1704	20	0.17	0.11	0.10	0.09	350	50-70	85.2	B1-U0-G0
24W16LED4K-T-LE2	2363	29	0.25	0.15	0.13	0.12	530	70-100	81.5	B1-U0-G1
24W16LED4K-T-LE3	2363	29	0.25	0.15	0.13	0.12	530	70-100	81.5	B1-U0-G1
24W16LED4K-T-LE3W	2363	29	0.25	0.15	0.13	0.12	530	70-100	81.5	B1-U0-G1
24W16LED4K-T-LE4	2363	29	0.25	0.15	0.13	0.12	530	70-100	81.5	B1-U0-G1
24W16LED4K-T-LE5	2363	29	0.25	0.15	0.13	0.12	530	70-100	81.5	B2-U0-G1
30W16LED4K-T-LE3	2979	38	0.32	0.19	0.17	0.15	700	70-100	78.4	B1-U0-G1
30W16LED4K-T-LE2	3000	38	0.32	0.19	0.17	0.15	700	70-100	78.9	B1-U0-G1
30W16LED4K-T-LE3W	3000	38	0.32	0.19	0.17	0.15	700	70-100	78.9	B1-U0-G1
30W16LED4K-T-LE4	3000	38	0.32	0.19	0.17	0.15	700	70-100	78.9	B1-U0-G1
30W16LED4K-T-LE5	3000	38	0.32	0.19	0.17	0.15	700	70-100	78.9	B2-U0-G1
35W32LED4K-T-LE2	3318	37	0.31	0.19	0.17	0.16	350	70-100	89.7	B1-U0-G1
35W32LED4K-T-LE3W	3318	37	0.31	0.19	0.17	0.16	350	70-100	89.7	B1-U0-G1
35W32LED4K-T-LE4	3318	37	0.31	0.19	0.17	0.16	350	70-100	89.7	B1-U0-G1
35W32LED4K-T-LE5	3318	37	0.31	0.19	0.17	0.16	350	70-100	89.7	B2-U0-G1
35W32LED4K-T-LE3	3318	37	0.31	0.19	0.17	0.16	350	70-100	89.7	B1-U0-G1
48W16LED4K-T-LE3	4036	55	0.47	0.26	0.23	0.20	1050	70-100	73.4	B1-U0-G1
48W16LED4K-T-LE2	4068	55	0.47	0.26	0.23	0.20	1050	70-100	74.0	B1-U0-G1
48W16LED4K-T-LE3W	4068	55	0.47	0.26	0.23	0.20	1050	70-100	74.0	B1-U0-G1
48W16LED4K-T-LE4	4068	55	0.47	0.26	0.23	0.20	1050	70-100	74.0	B1-U0-G1
48W16LED4K-T-LE5	4068	55	0.47	0.26	0.23	0.20	1050	70-100	74.0	B3-U0-G1
55W32LED4K-T-LE2	4602	55	0.47	0.27	0.24	0.22	530	100-150	83.7	B1-U0-G1
55W32LED4K-T-LE3	4602	55	0.47	0.27	0.24	0.22	530	100-150	83.7	B1-U0-G1
55W32LED4K-T-LE3W	4602	55	0.47	0.27	0.24	0.22	530	100-150	83.7	B1-U0-G1
55W32LED4K-T-LE4	4602	55	0.47	0.27	0.24	0.22	530	100-150	83.7	B1-U0-G1
55W32LED4K-T-LE5	4602	55	0.47	0.27	0.24	0.22	530	100-150	83.7	B3-U0-G1
55W48LED4K-T-LE3	4946	55	0.46	0.28	0.26	0.24	350	100-150	89.9	B1-U0-G1
55W48LED4K-T-LE2	4954	55	0.46	0.28	0.26	0.24	350	100-150	90.1	B1-U0-G1
55W48LED4K-T-LE3W	4954	55	0.46	0.28	0.26	0.24	350	100-150	90.1	B1-U0-G1
55W48LED4K-T-LE4	4954	55	0.46	0.28	0.26	0.24	350	100-150	90.1	B1-U0-G1
55W48LED4K-T-LE5	4954	55	0.46	0.28	0.26	0.24	350	100-150	90.1	B3-U0-G1
72W32LED4K-T-LE2	5840	73	0.62	0.36	0.31	0.28	700	100-150	80.0	B1-U0-G1
72W32LED4K-T-LE3W	5840	73	0.62	0.36	0.31	0.28	700	100-150	80.0	B1-U0-G2
72W32LED4K-T-LE4	5840	73	0.616	0.356	0.313	0.28	700	100-150	80.0	B1-U0-G1
72W32LED4K-T-LE5	5840	73	0.616	0.356	0.313	0.28	700	100-150	80.0	B3-U0-G1
72W32LED4K-T-LE3	5844	73	0.616	0.356	0.313	0.28	700	100-150	80.1	B1-U0-G1

[1] L70 = 100,000 hrs (at ambient temperature = 25°C and forward current = 700 mA)
[2] L70 = 90,000 hrs (at ambient temperature = 25°C and forward current = 1050 mA)
[3] System wattage includes the lamp and the LED driver. [4] Equivalence should always be confirmed by a photometric layout

Note : Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice and at the discretion of Philips.

PHILIPS LUMEC

LUMINAIRE SCHEDULE

TYPE	LUMINAIRE	DIST.	MTG. HT.	ARM	POLE HT.	COLOR	MATERIAL	QUANTITY
"F2" GPLS	55W, 32LED, 120V	TYPE 4	18'-10"	-	16'-0"	N.P.	STEEL	61
** "TRAFFIC" GPLS	105W, LED, 120V	TYPE 3	33'-9"	12'-0"	30'-0"	N.P.	STEEL	8

*NOTE: CONTRACTOR TO VERIFY ALL QUANTITIES AND SPECIFICATIONS PRIOR TO ORDERING.

**NOTE: BY OTHERS, SEE TRAFFIC SIGNAL PLANS.

CAUTION:

CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".

PUBLIC/PRIVATE LIGHTING: PUBLIC
PG&E RATE SCHEDULE: LS-2A
INSTALL IN JOINT TRENCH:
INSTALL IN SEPARATE TRENCH: ✓
CITY PERMIT REQUIRED: ✓

REGISTERED PROFESSIONAL ENGINEER
DAVID SCOT CROWFOOT
E11965
EXP. 9/30/17
ELECTRICAL
STATE OF CALIFORNIA

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
811
CALL BEFORE YOU DIG

REVISIONS

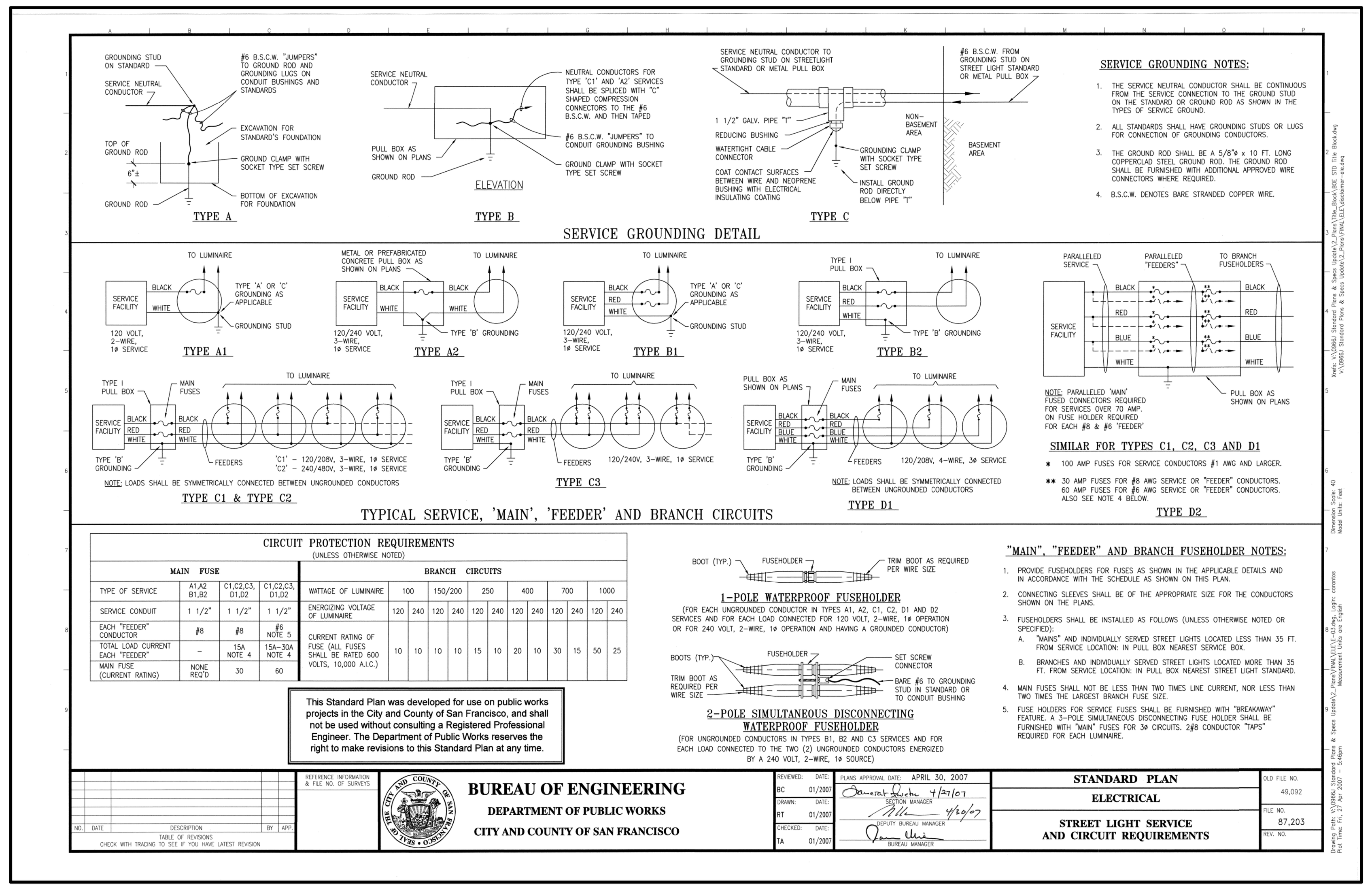
SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

PUBLIC STREET LIGHTING TITLE SHEET

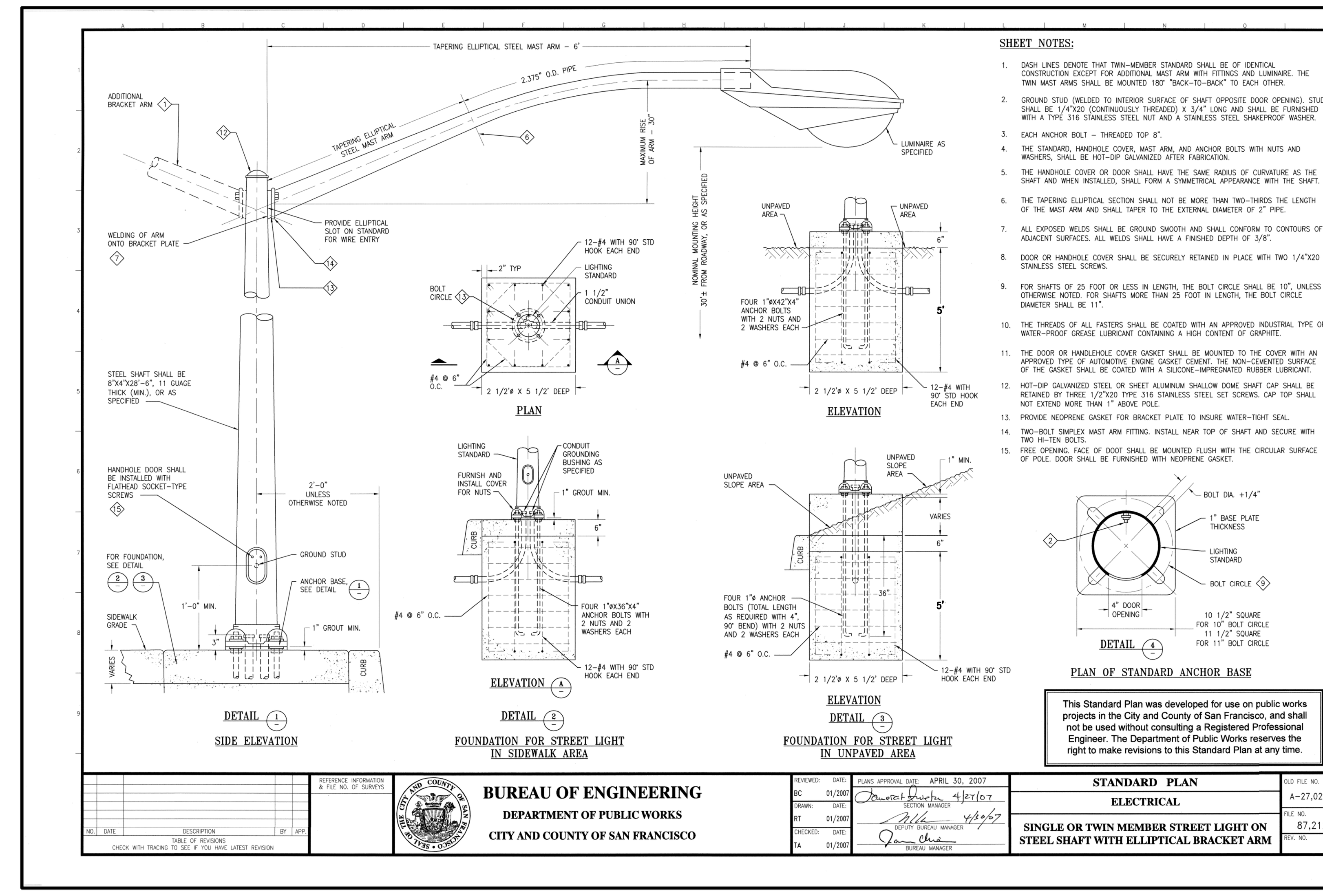
BKF
PARKMERCED
PHASE 1A - B1-B6
SAN FRANCISCO CALIFORNIA

PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: CCP
CHECKED BY: DC
SCALE: AS SHOWN
JOB NUMBER: 14-193 B1-B6
DATE LAST MODIFIED: 05-01-17
SHEET SL1
OF 6 SHEETS



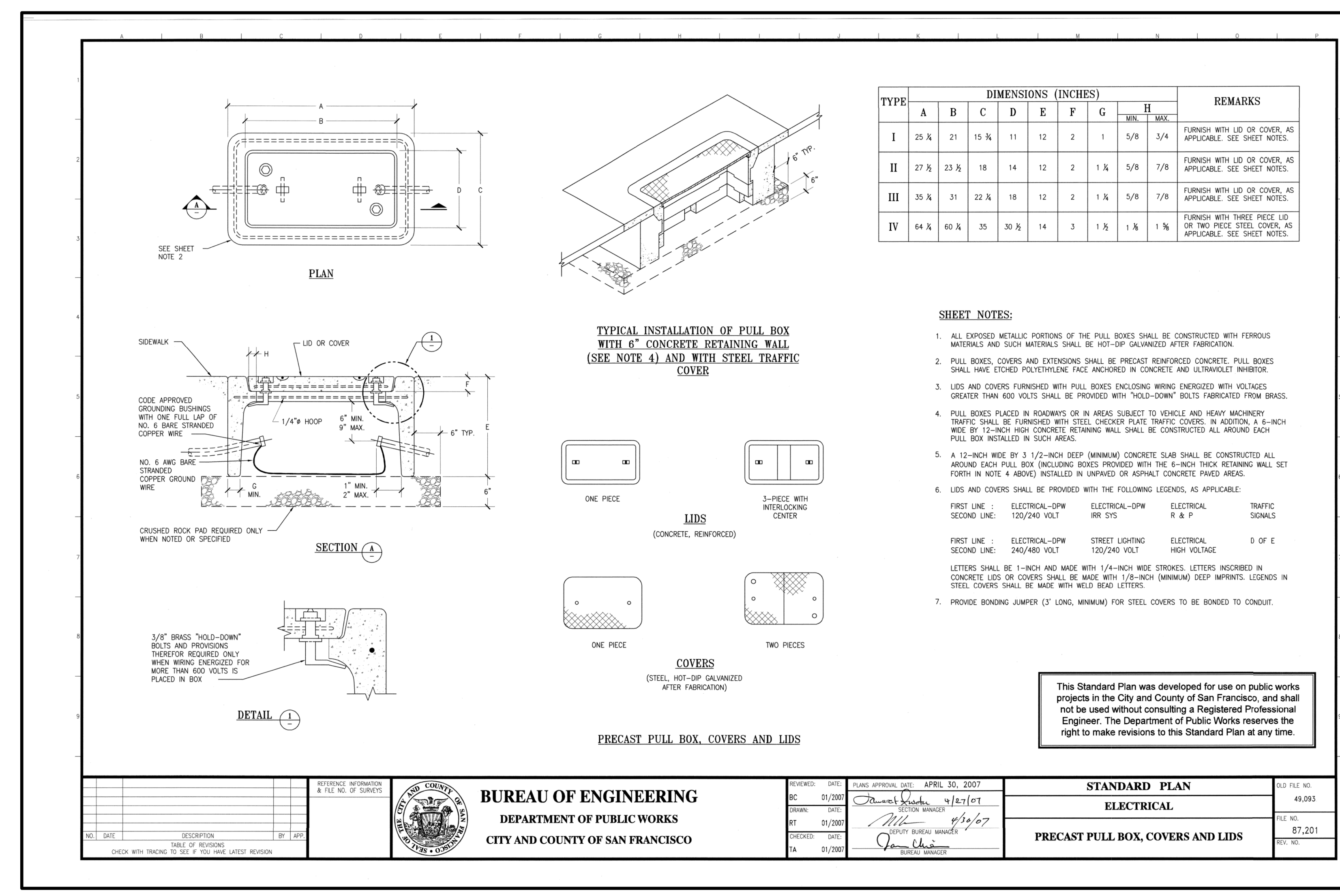
ST. LIGHT CIRCUIT REQUIREMENTS DETAIL

SEE SL1 FOR ST LIGHT ORDERING INFO.



ST. LIGHT LOCATION & FOUNDATION DETAIL

SEE SL1 FOR ST LIGHT ORDERING INFO.



ST. LIGHT PULL BOX DETAIL

SEE SL1 FOR ST LIGHT ORDERING INFO.

CAUTION:

CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".

E11965

EXP. 9/30/17

ELECTRICAL

STATE OF CALIFORNIA

TWO DAYS BEFORE YOU DIG

CALL USA TOLL FREE

811

CALL BEFORE YOU DIG

REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVED

GIACALONE DESIGN SERVICES, INC.

5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588

925.467.1740 | WWW.GIACALONEDESIGN.COM

PUBLIC STREET LIGHTING DETAIL SHEET

BKF

PARKMERCED

PHASE 1A – B1-B6

SAN FRANCISCO CALIFORNIA

PROJECT MANAGER: DAVE CROWFOOT

DRAWN BY: CCP

CHECKED BY: DC

SCALE: AS SHOWN

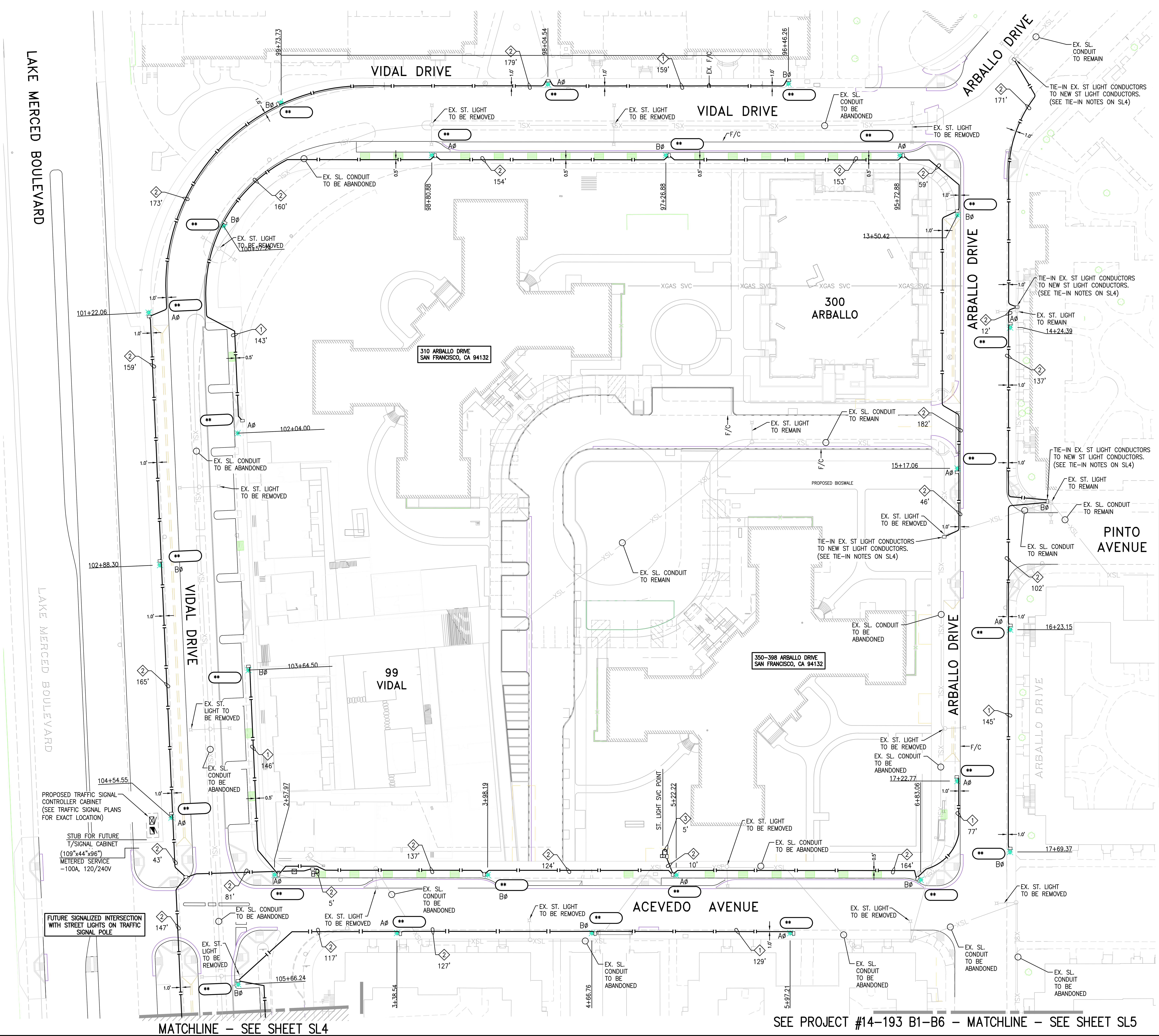
JOB NUMBER: 14-193 B1-B6

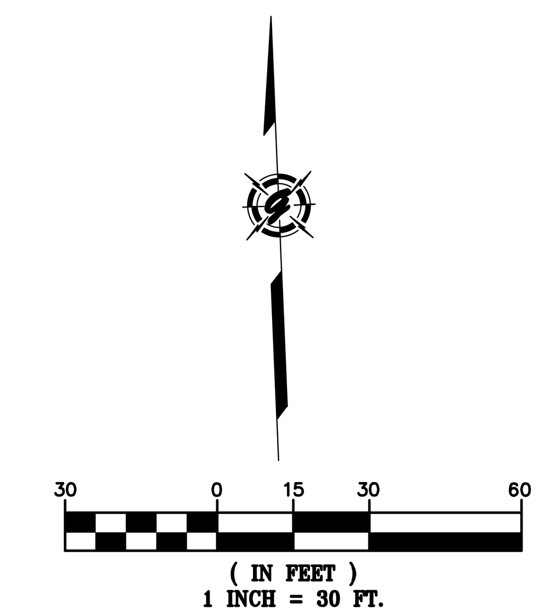
DATE LAST MODIFIED: 05-01-17

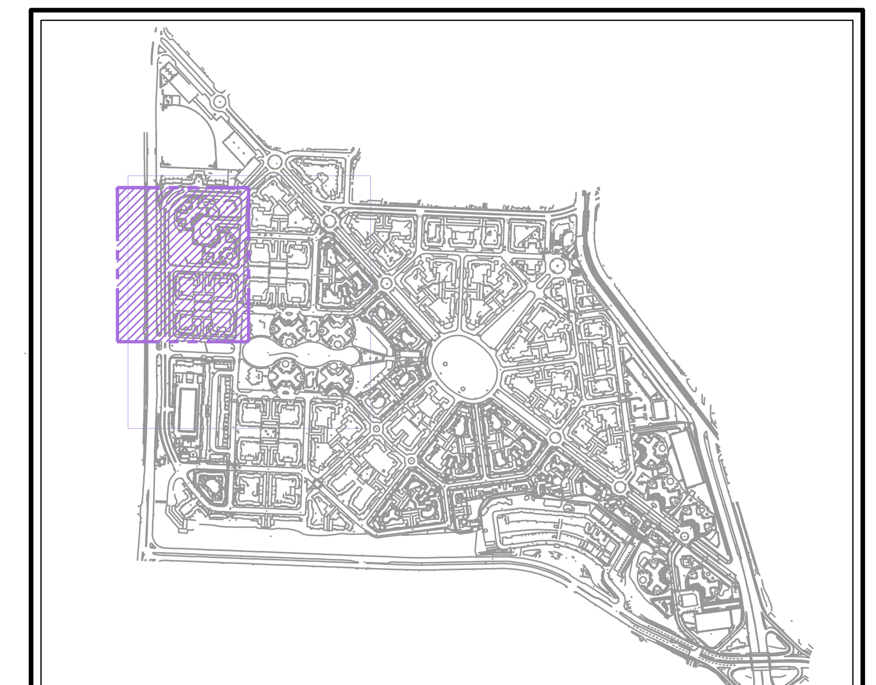
SHEET

SL2

OF 6 SHEETS







KEY MAP
NOT TO SCALE

NOTE:
SEE SHEET SL4 FOR CONDUIT AND CONDUCTOR SCHEDULE.

LEGEND

- EXISTING TRENCH OR UTILITIES
- PROPOSED 1 1/2" SCH. 40 PVC CONDUIT
- EXISTING STREET LIGHT SPLICE BOX
- ELECTRIC SERVICE POINT (SECONDARY BOX)
- PROPOSED URBANSCAPE L.E.D. STREET LIGHT
- PROPOSED INTERSECTION SIGNAL STREET LIGHTS (BY OTHERS)
- STREET LIGHT BOX (STATE TYPE 3 1/2)
- EXISTING STREET LIGHT TO BE REMOVED
- EXISTING DUAL STREET LIGHT TO BE REMOVED
- EXISTING STREET LIGHT TO REMAIN
- 123456 STREET LIGHT POLE NUMBER
- METERED SERVICE PEDESTAL
- FIRE HYDRANT (BY OTHERS)

CAUTION:
CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
811
CALL BEFORE YOU DIG

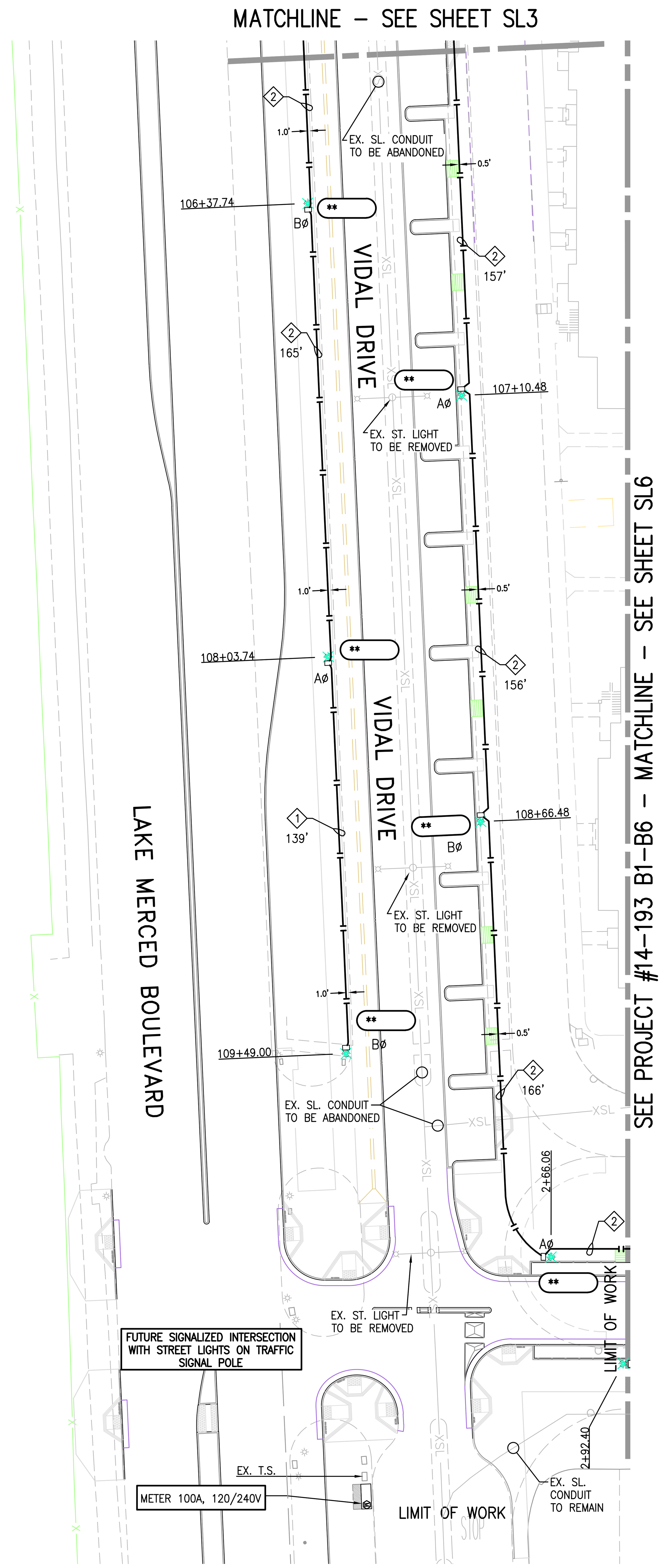
REVISIONS
SYMBOL	DATE	DESCRIPTION	APPROVED

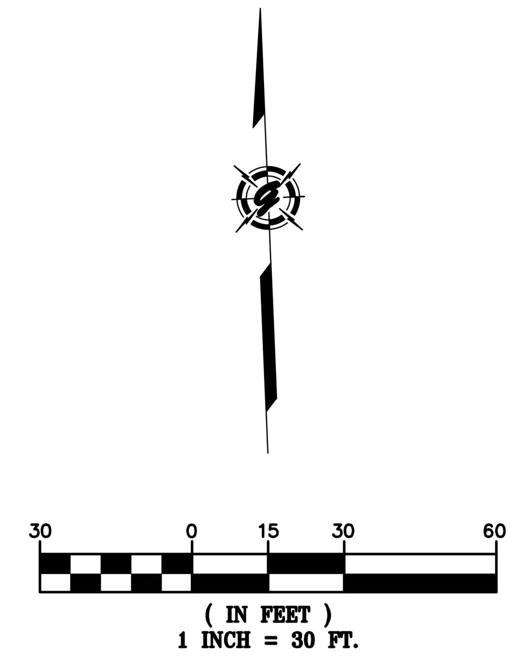
GIACALONE DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

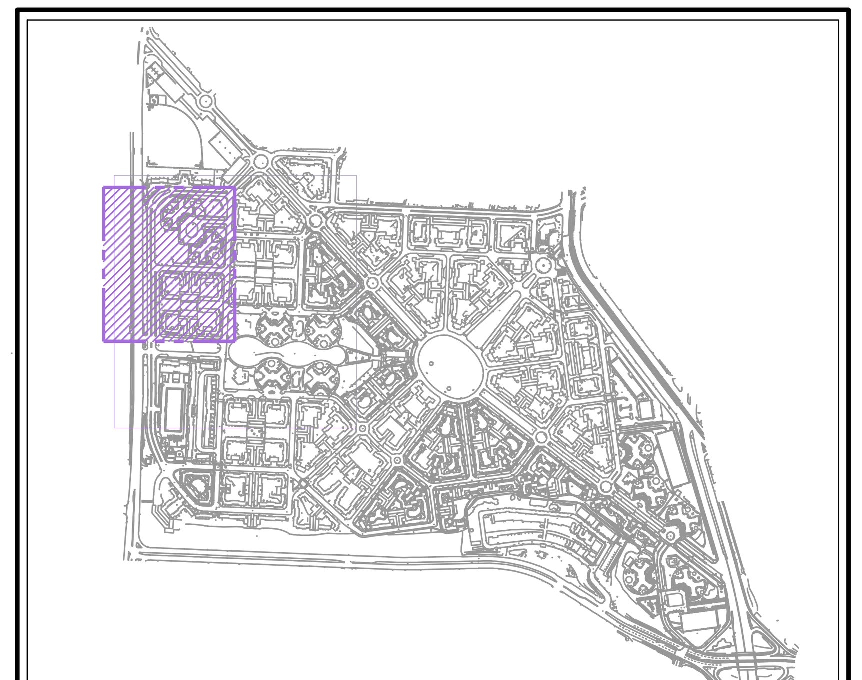
PUBLIC STREET LIGHTING SITE PLAN

BKF
PARKMERCED
PHASE 1A – B1-B6
SAN FRANCISCO CALIFORNIA

PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: CCP
CHECKED BY: DC
SCALE: 1"=30'
JOB NUMBER: 14-193 B1-B6
DATE LAST MODIFIED: 05-01-17
SHEET SL3
OF 6 SHEETS







KEY MAP
NOT TO SCALE

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE		RUN NUMBER / NUMBER OF CONDUCTORS ①	②	③				
#4								
#6	GND							
#8		2	3	3				
	GND							
#10	GND	1	1					
#12	GND							
CONDUIT SIZE		1½"	1½"	1½"				

LEGEND

- EXISTING TRENCH OR UTILITIES
- PROPOSED 1 1/2" SCH. 40 PVC CONDUIT
- EXISTING STREET LIGHT SPLICE BOX
- ELECTRIC SERVICE POINT (SECONDARY BOX)
- PROPOSED URBANSCAPE L.E.D. STREET LIGHT
- PROPOSED INTERSECTION SIGNAL STREET LIGHTS (BY OTHERS)
- STREET LIGHT BOX (STATE TYPE 3 1/2)
- EXISTING STREET LIGHT TO BE REMOVED
- EXISTING DUAL STREET LIGHT TO BE REMOVED
- EXISTING STREET LIGHT TO REMAIN
- 123456 STREET LIGHT POLE NUMBER
- Ⓜ METERED SERVICE PEDESTAL
- FIRE HYDRANT (BY OTHERS)

CAUTION:
CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".

STREET LIGHT TIE-IN TO EX. SYSTEM NOTES:

1. DE-ENERGIZE CIRCUITS AS REQUIRED, COORDINATE WORK WITH PG&E AND CITY INSPECTORS (TYPICAL FOR TIE-IN POINTS).
2. RUN NEW CONDUIT AND CONDUCTORS, USING THE SAME TYPE AND SIZE AS EXISTING SYSTEM, TO NEW DECORATIVE STREET LIGHTS TO BE INSTALLED AT SEPARATE TIE-IN LOCATIONS.
3. TIE IN NEW CONDUIT AND CONDUCTORS TO EXISTING CONDUIT AND CONDUCTORS AT EX. STREET LIGHT BOXES AT EX. ST LIGHT LOCATIONS SHOWN ON DRAWING, FOR A COMPLETE OPERATING SYSTEM PER PG&E AND OR CITY.

NOTE:
PLEASE REFER TO STANDARD PLAN # 87-203 FOR ALL STREET LIGHT SERVICE AND CIRCUIT REQUIREMENTS.

REGISTERED PROFESSIONAL ENGINEER
DAVID T. CROWFOOT
E11965
EXP. 9/30/17
ELECTRICAL
STATE OF CALIFORNIA

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REVISIONS			
SYMBOL	DATE	DESCRIPTION	APPROVED

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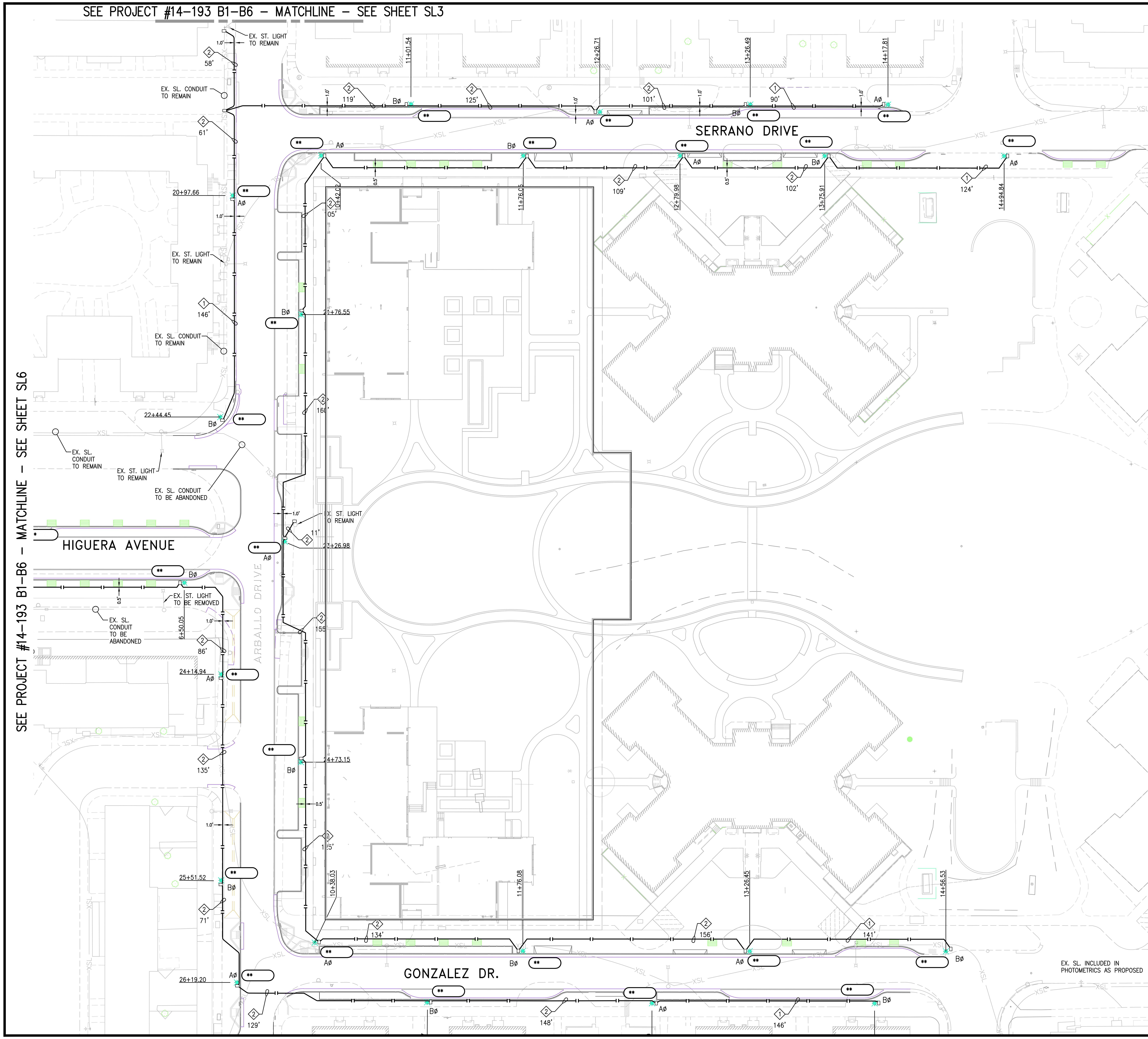
PUBLIC STREET LIGHTING SITE PLAN
BKF
PARKMERCED
PHASE 1A – B1–B6
SAN FRANCISCO CALIFORNIA

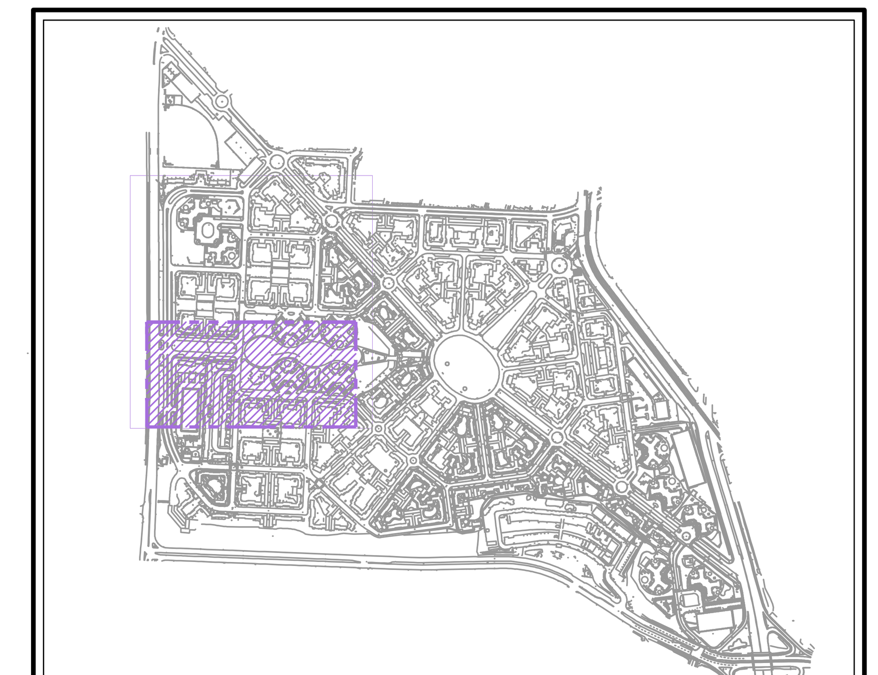
PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: CCP
CHECKED BY: DC
SCALE: 1"=30'
JOB NUMBER: 14-193 B1-B6
DATE LAST MODIFIED: 05-01-17
SHEET
SL4
OF 6 SHEETS

SEE PROJECT #14-193 B1-B6 – MATCHLINE – SEE SHEET SL3

SEE PROJECT #14-193 B1-B6 – MATCHLINE – SEE SHEET SL6



(IN FEET)
1 INCH = 30 FT.



KEY MAP
NOT TO SCALE

NOTE: NOT TO SCALE
SEE SHEET SL4 FOR CONDUIT AND CONDUCTOR SCHEDULE.

LEGEND

	EXISTING TRENCH OR UTILITIES
	PROPOSED 1 1/2" SCH. 40 PVC CONDUIT
	EXISTING STREET LIGHT SPLICE BOX
2	ELECTRIC SERVICE POINT (SECONDARY BOX)
	PROPOSED URBANSCAPE L.E.D. STREET LIGHT
	PROPOSED INTERSECTION SIGNAL STREET LIGHTS (BY OTHERS)
	STREET LIGHT BOX (STATE TYPE 3 1/2)
	EXISTING STREET LIGHT TO BE REMOVED
	EXISTING DUAL STREET LIGHT TO BE REMOVED
	EXISTING STREET LIGHT TO REMAIN
123456	STREET LIGHT POLE NUMBER
M	METERED SERVICE PEDESTAL
	FIRE HYDRANT (BY OTHERS)

CAUTION:
CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".

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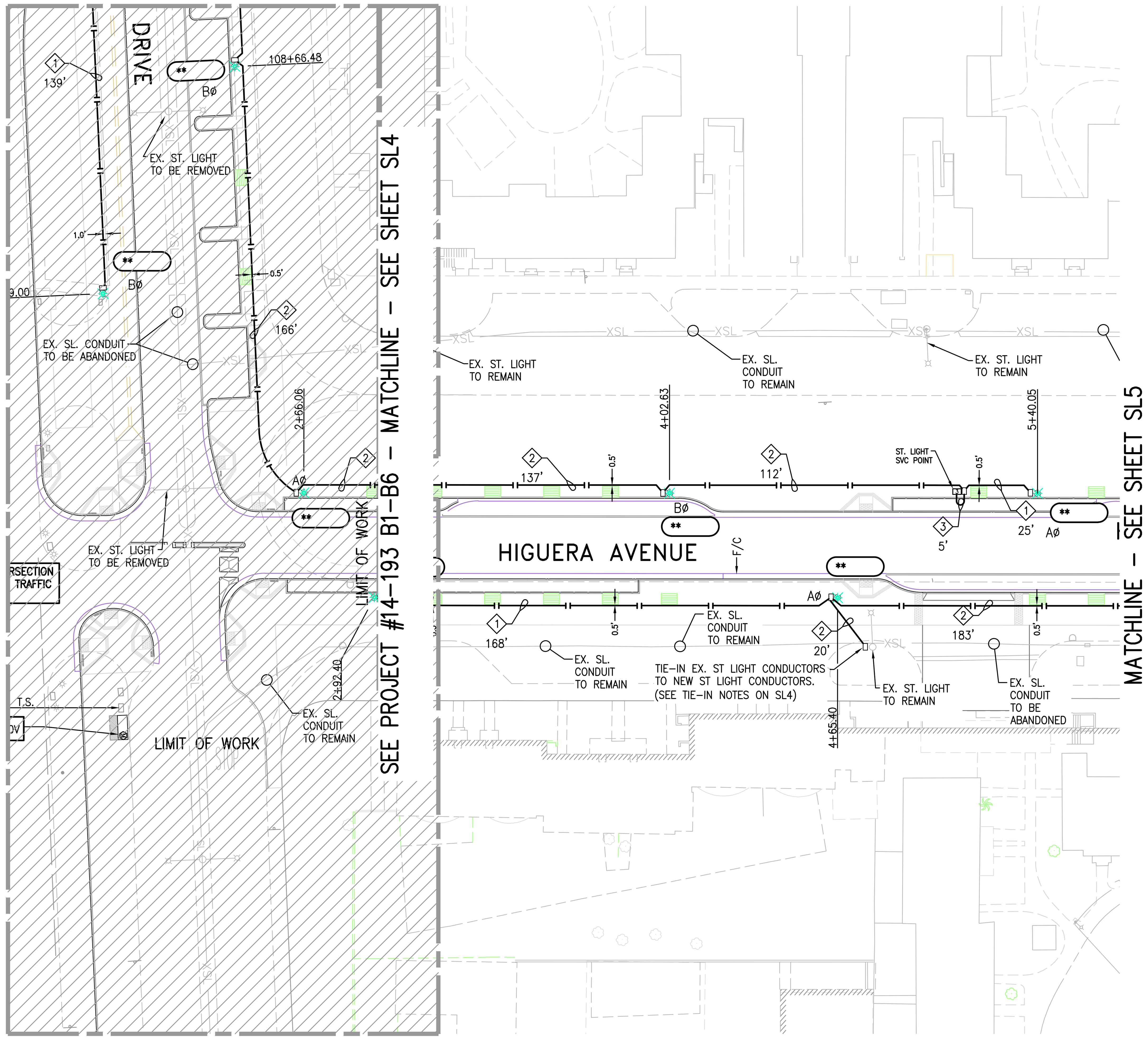
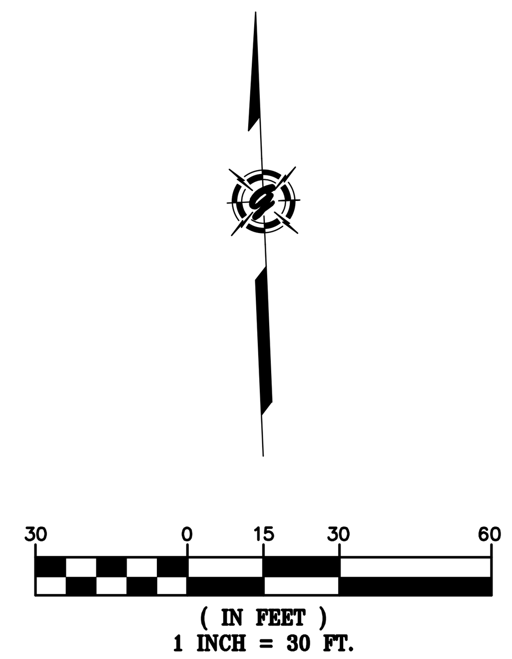
JOB NUMBER: 14-193 B1- B6
DATE LAST MODIFIED: 05-01-17
SHEET SL5
OF 6 SHEETS





KEY MAP

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LEGEND

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	PROPOSED 1 1/2" SCH. 40 PVC CONDUIT
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	FIRE HYDRANT (BY OTHERS)

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CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE		RUN NUMBER / NUMBER OF CONDUCTORS						
		1	2	3				
#4								
#6								
	GND							
#8		2	3	3				
	GND							
#10								
	GND	1	1					
#12								
	GND							
CONDUIT SIZE		1½"	1½"	1½"				

CAUTION:
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REGISTERED PROFESSIONAL ENGINEER DAVE CROWFOOT E11965 EXP. 9/30/17 ELECTRICAL STATE OF CALIFORNIA

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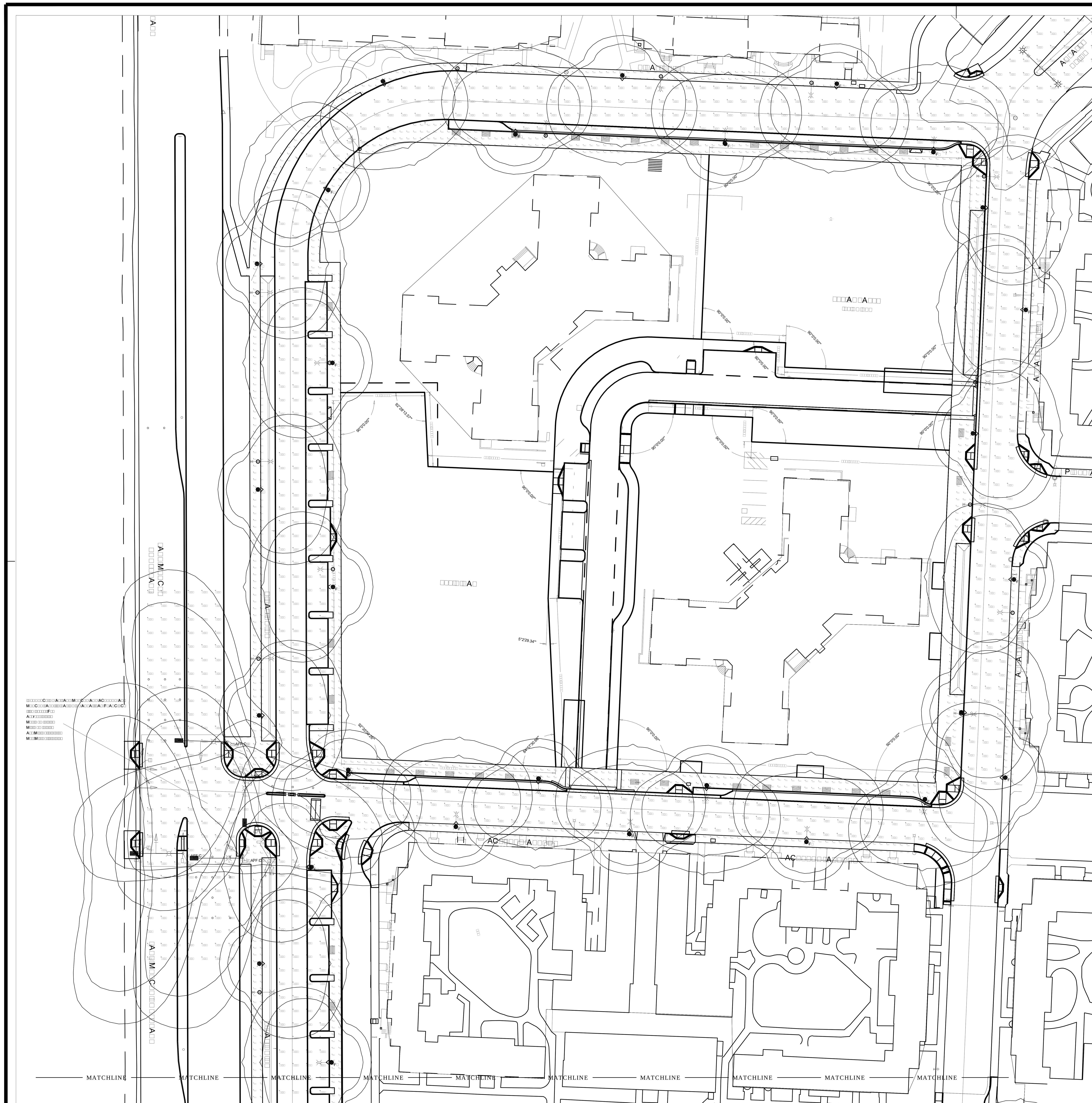
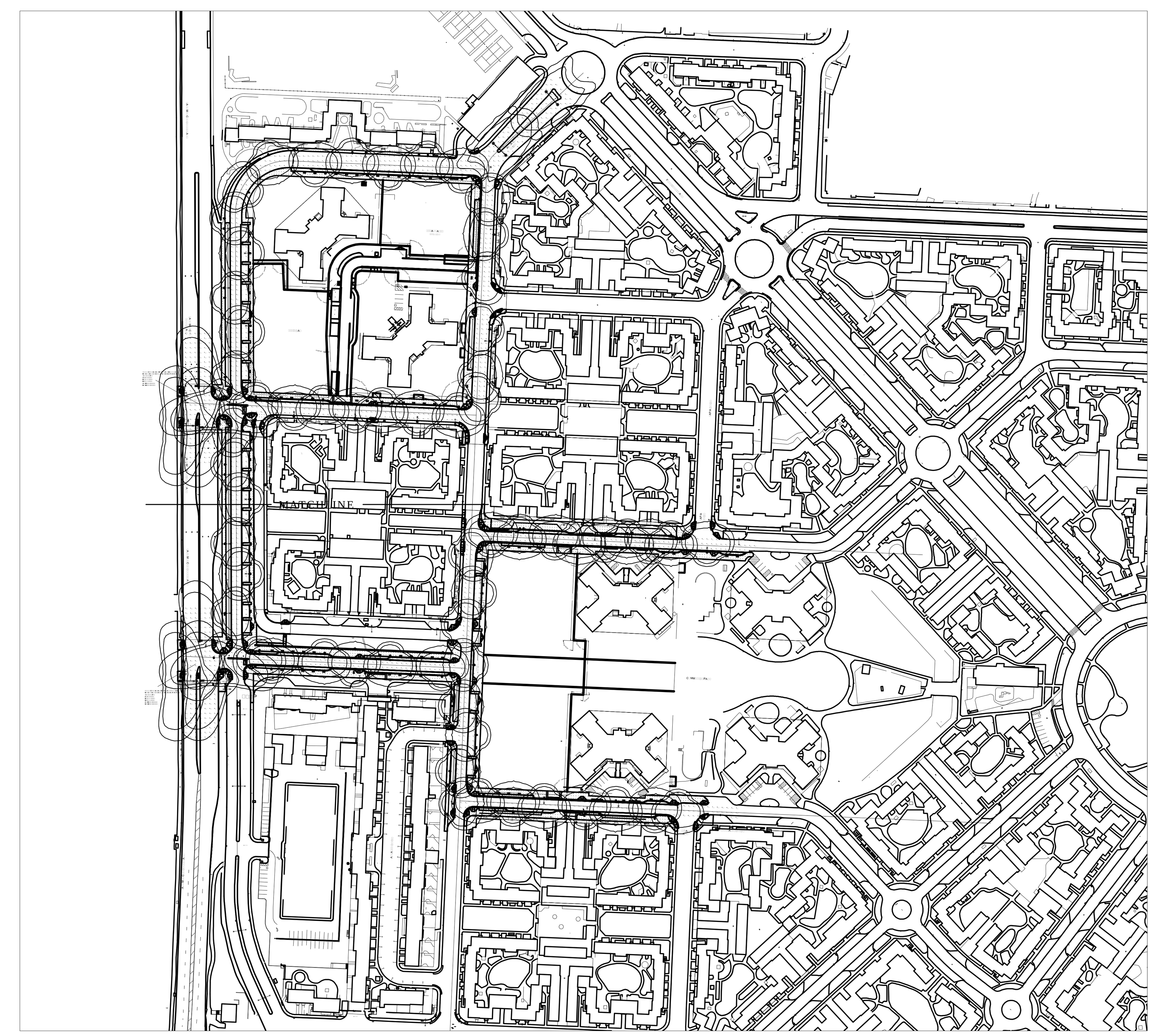
JOB NUMBER: 14-193 B1-B6
DATE LAST MODIFIED: 05-01-17
SHEET
SL6
OF 6 SHEETS





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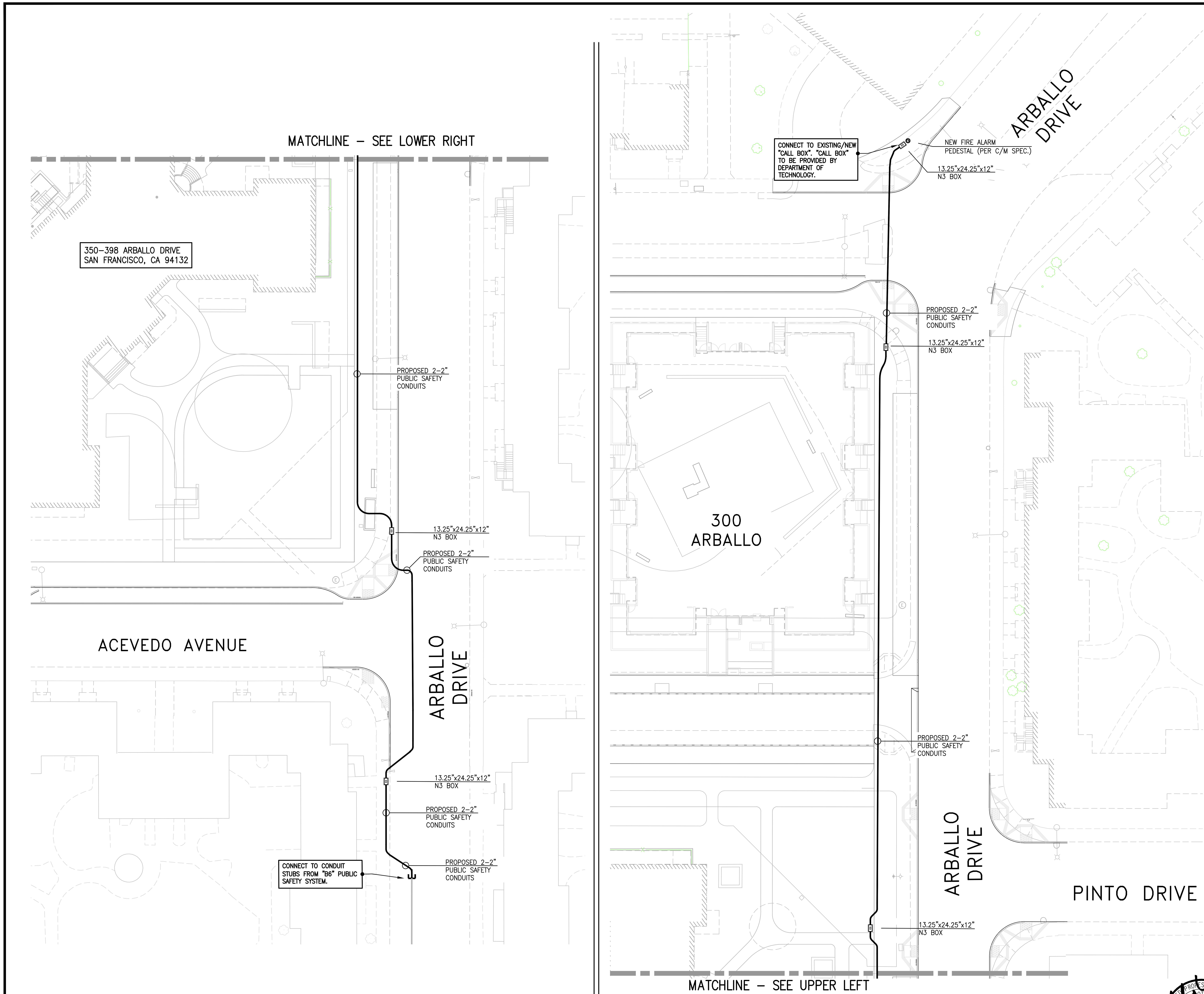

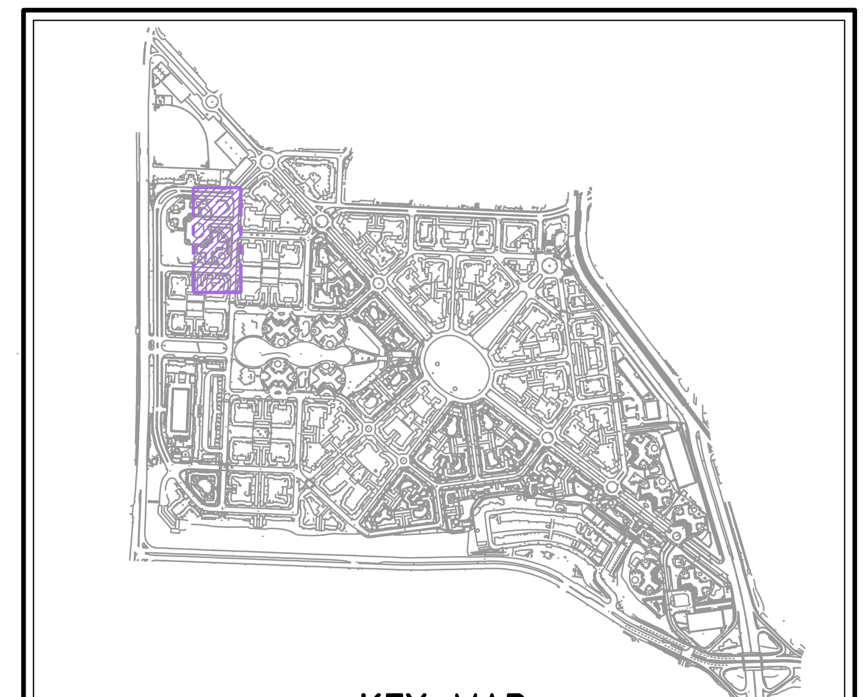

KEY MAP
NOT TO SCALE

CONDUIT SIZES (PROVIDED BY CONTRACTOR):
2–2" (SCH 80) CONDUITS, BOX TO BOX

NOTE:
UTILITY BOXES SHOWN FOR REFERENCE ONLY–ACTUAL SIZES AND LOCATIONS TO BE DETERMINED BY THE CITY OF SAN FRANCISCO DEPARTMENT OF TECHNOLOGY.

NOTE:
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INSTALLATION OF PUBLIC SAFETY CONDUITS:
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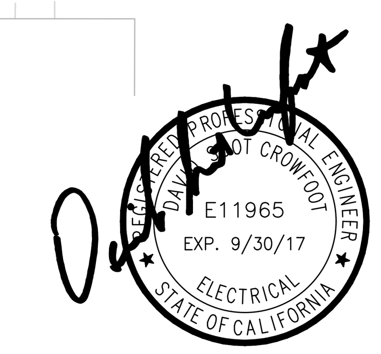
CITY OF SAN FRANCISCO – DEPARTMENT OF TECHNOLOGY
MICHAEL J. DENNING (415) 550–2718
PUBLIC SAFETY SUPERVISOR



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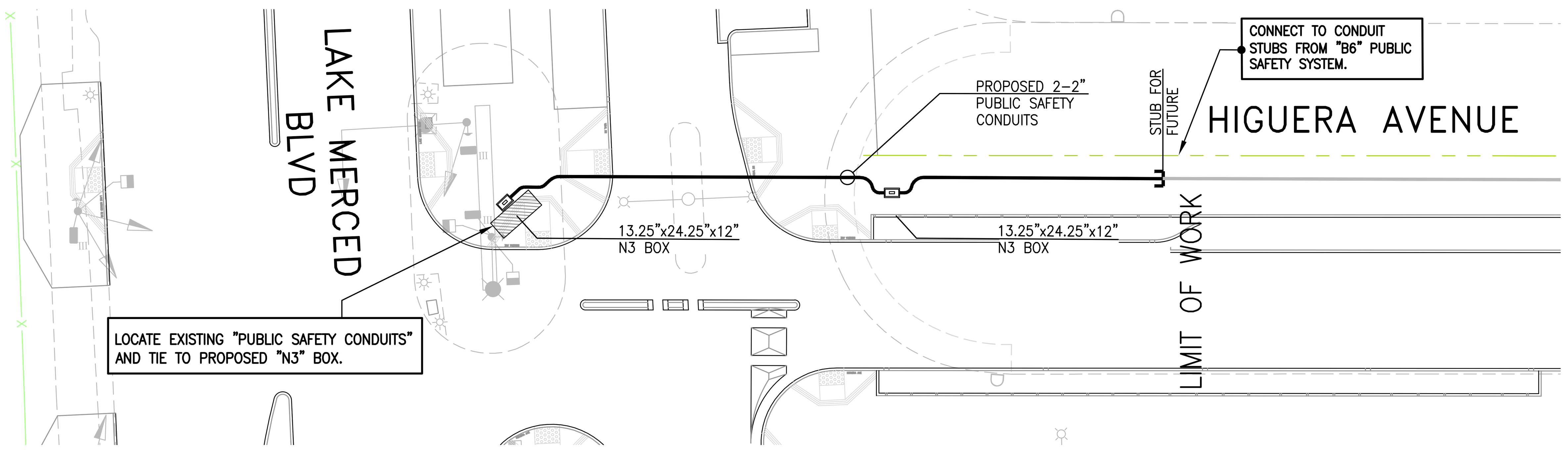
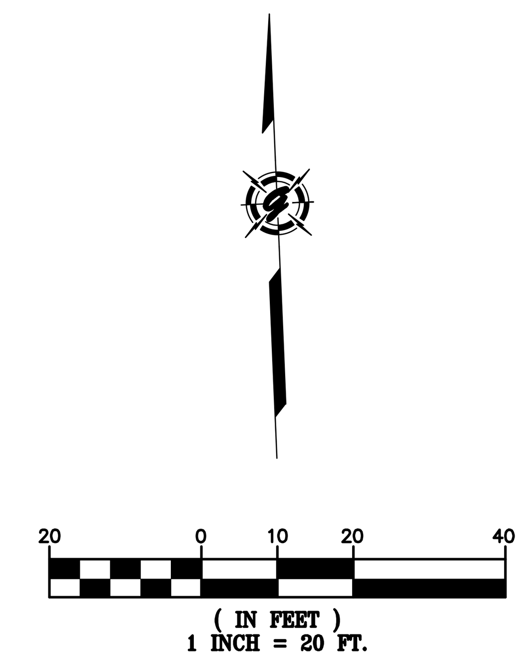
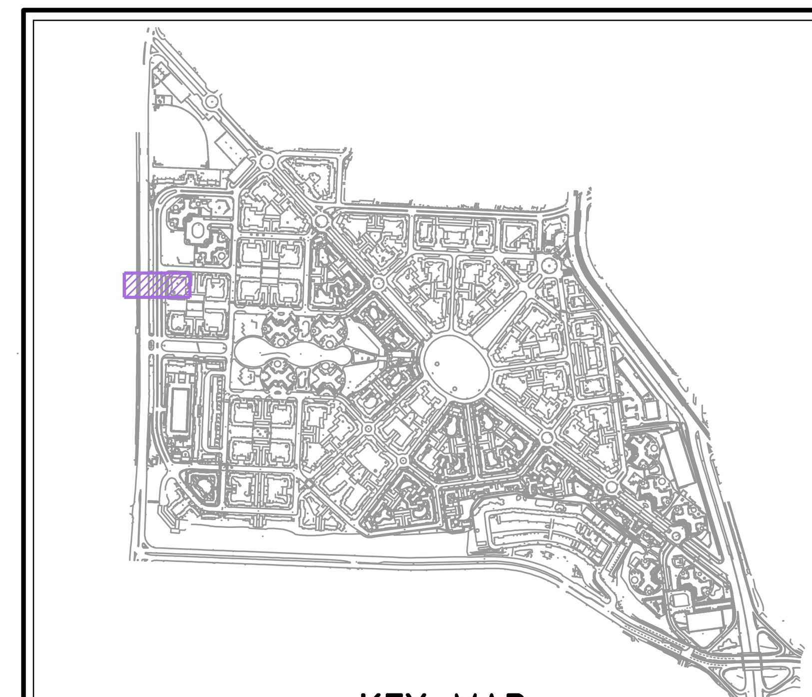
PUBLIC SAFETY CONDUIT EXHIBIT
BKF
PARKMERCED
PHASE 1A – B1
SAN FRANCISCO CALIFORNIA

PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: DC
CHECKED BY: DC
SCALE: 1"=20'
JOB NUMBER: 14–193 B1
DATE LAST MODIFIED: 05–01–17
SHEET
PS1
OF 4 SHEETS







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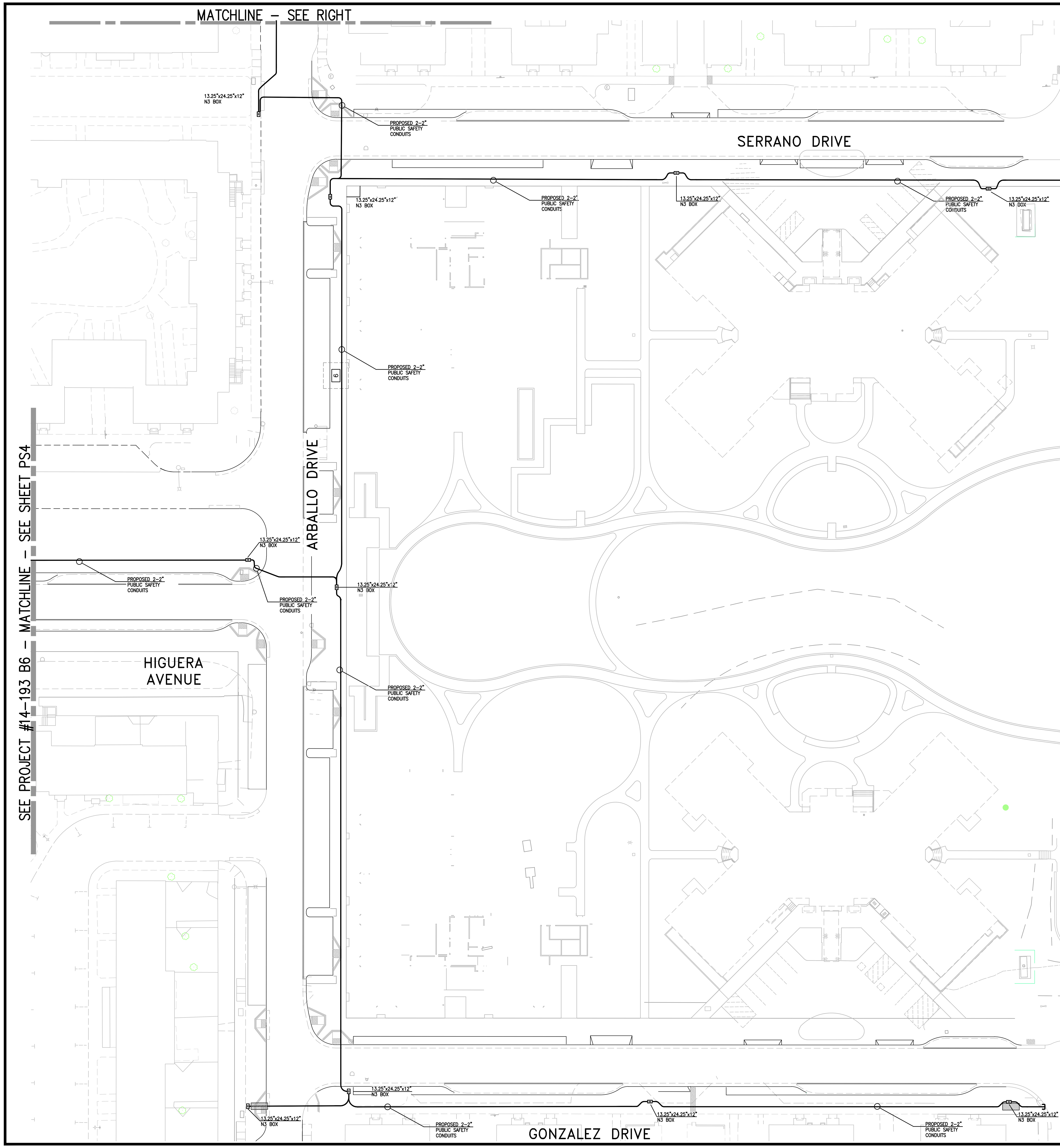
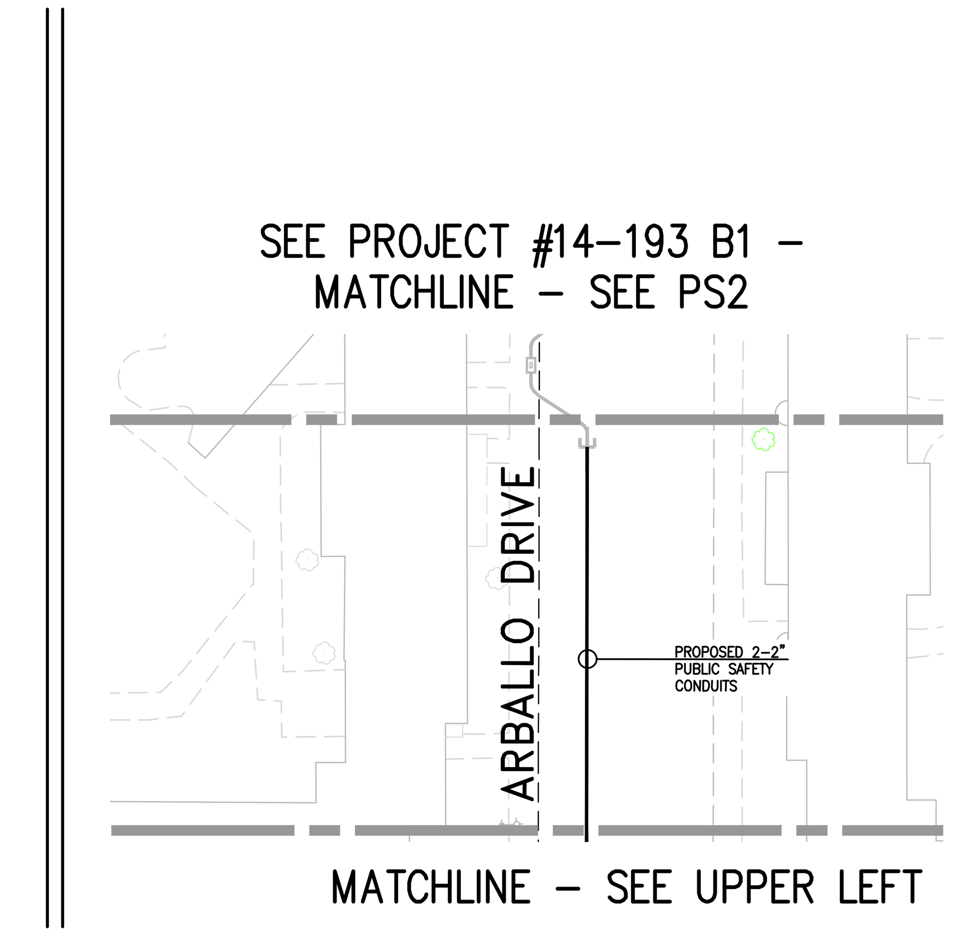
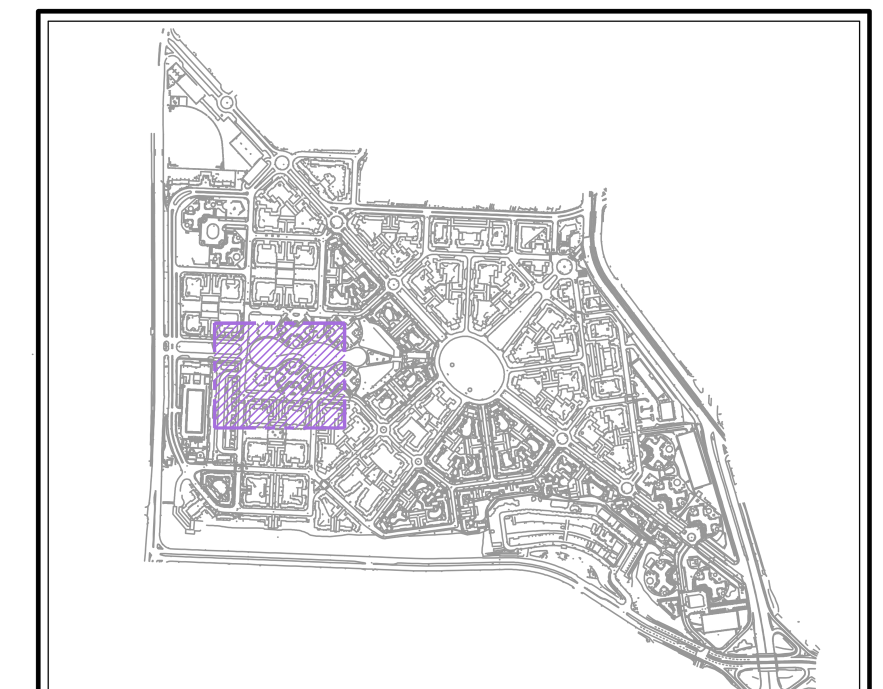
SHEET
PS2
OF 4 SHEETS







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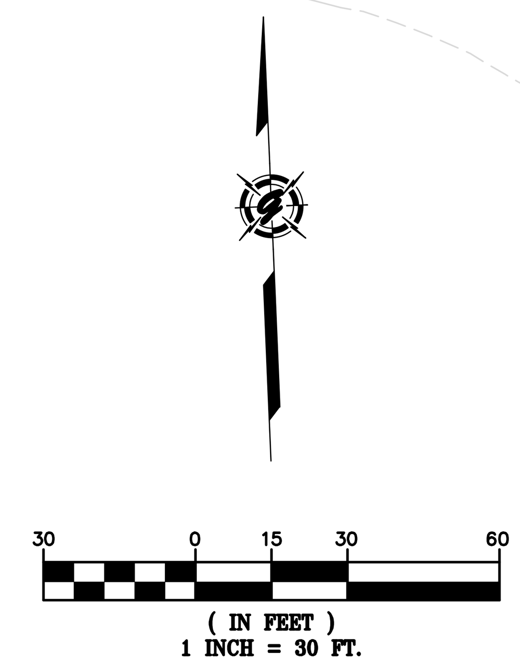

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SAN FRANCISCO CALIFORNIA

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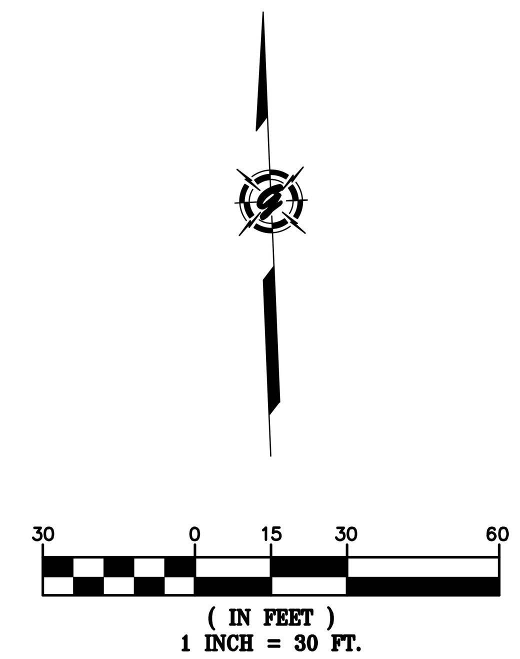
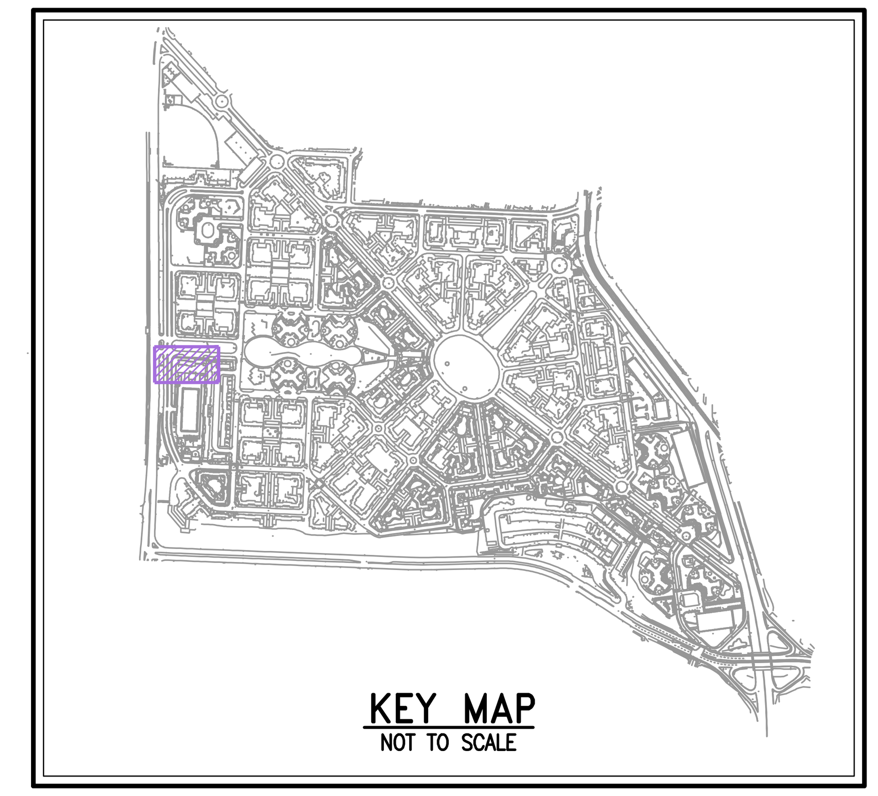
SHEET
PS3
OF 4 SHEETS





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© BKF ENGINEERS

LANDSCAPE INDEX, NOTES AND LEGEND

ABBREVIATIONS

@	AT
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
ATC	AT TRELLIS COLUMN
B	BENCH
B&B	BALL AND BURLAP
BC	BOTTOM OF CURB
BFP	BOTTOM OF FENCE POST
BFS	BELOW FINISHED SURFACE
BLDG	BUILDING
BOC	BACK OF CURB
BP	BAMBOO PLANTER
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL
C	CURB RAMP
CAL	CALIPER
CB	CATCH BASIN
CH	CONCRETE HEADER
CIP	CAST IRON PIPE
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEARANCE
CO	CLEAN OUT
COJ	CONSTRUCTION JOINT
CONC	CONCRETE
CONT	CONTINUOUS
CR	CURB RAMP
DCA	DOUBLE CHECK ASSEMBLY
DIA	DIAMETER
DN	DOWN
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
EQ	EQUAL
EW	EACH WAY
EX	EXISTING
FCJ	FORMED CONTROL JOINT
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FOC	FACE OF CURB
FOW	FACE OF WALL
FS	FINISH SURFACE
G	GATE
GB	GRADE BREAK
GJ	GROUT JOINT
HH	HANDHOLE
HORIZ	HORIZONTAL
HP	HIGH POINT
HSS	HIGH STRENGTH STEEL
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERTED
L	LIGHT
LIC	LANDSCAPE IRRIGATION CONTRACTOR
LONGIT	LONGITUDINAL
LOW	LIMIT OF WORK
LP	LOW POINT
MAX	MAXIMUM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OP	OVERFLOW PIPE
OPP	OPPOSITE HAND
PA	PLANTING AREA
PD	PLANTER DRAIN
PED	PEDESTRIAN
PERF	PERFORATED
PL	PLANTER
POC	POINT OF CONNECTION
PT	POINT OF TANGENCY
PVC	POLYVINYLCHLORIDE
R	RADIUS
RB	ROOT BARRIER
RIM	RIM ELEVATION
ROW	RIGHT OF WAY
S	SLOPE
SAD	SEE ARCHITECTURAL DRAWINGS
SCD	SEE CIVIL DRAWINGS
SD	STORM DRAIN
SED	SEE ELECTRICAL DRAWINGS
SGB	SUBGRADE GRADE BREAK
SGS	SUBGRADE SURFACE
SH	STEEL HEADER
SIM	SIMILIAR
SJ	SCORE JOINT
SS	STAINLESS STEEL
SPD	SEE PLUMBING DRAWINGS
SSD	SEE STRUCTURAL DRAWINGS
STD	STANDARD
STS	STRAIGHT SLOPE
T&B	TOP AND BOTTOM
TC	TOP OF CURB
TCJ	TOOLED CONTROL JOINT
TD	TRENCH DRAIN
TFG	TOP OF FOOTING
TFP	TOP OF FENCE PICKET
TG	TREE GRATE
TH	TOP OF HEADER
TP	TOP OF PLINTH
TPA	TERRACE PLANTER AREA
TPC	TOP OF POOL COPING
TPW	TOP OF POOL WALL
TRANS	TRANSVERSE
TRB	TOP OF ROOT BALL
TSP	TOP OF STEEL PLATE
TYP	TYPICAL
VEH	VEHICULAR
VERT	VERTICAL
W	WALL
WL	WATER LEVEL
WPM	WATER PROOF MEMBRANE
WWF	WELDED WIRE FABRIC
W/	WITH

NOTES

GENERAL:

1. REFER TO LANDSCAPE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. THE BASIS OF DESIGN HAS BEEN ESTABLISHED BY THE INFORMATION PROVIDED IN THE FOLLOWING DOCUMENTS:
   A. SURVEY INFORMATION OF EXISTING CONDITIONS PROVIDED BY BKF ENGINEERS, SURVEYORS, PLANNERS

pmextopo.dwg	10/13/2015
pmsvtopo.dwg	03/26/2016
pmexutil.dwg	04/21/2016
20161115_pmexutil_remain.dwg	11/15/2016

   B. ARBORIST REPORT REGARDING EXISTING TREES PROVIDED BY HORTSCIENCE, INC., DATED SEPTEMBER 2015.

   PHASE 1A + 1B — 11/13/2015

   C. ARCHITECTURAL DRAWINGS PROVIDED BY

   BLOCK 1:

   LEDDY MAYTUM STACY
   lms-ground floor plan-032816.dwg — 03/03/2017

   FOUGERON ARCHITECTS
   16_0519_A2-01-Floor Plan - Level 01A - Basement B.dwg — 03/28/2017

   BLOCK 6:

   WOODS BAGOT ARCHITECTURE

a2-01-01.dwg	04/18/2017
a2-03-01.dwg	04/18/2017
a2-00-b1.dwg	04/18/2017

   BLOCK 20:

   KWAN HENMI ARCHITECTURE & PLANNING

a2.01.dwg	04/11/2017
a2.02.dwg	04/11/2017
a2.03.dwg	04/11/2017
a2.04.dwg	04/11/2017

   BLOCK 22
   SKIDMORE, OWINGS & MERRILL

a2-1.dwg	03/06/2017
a2-4.dwg	03/06/2017

   D. CIVIL DRAWINGS PROVIDED BY BKF ENGINEERS, SURVEYORS, PLANNERS.

pm-ph01b-gdtx-10.dwg	04/26/2017
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pmprgrad-PH01A.dwg	04/26/2017
pmprgrad-PH01B.dwg	04/26/2017
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20170428_pmprutil_jt-PH01B.dwg	04/28/2016
pmpralign-PH01A.dwg	11/10/2016
pmpralign-PH01B.dwg	11/10/2016
pmprplan-PH01A.dwg	04/26/2017
pmprplan-PH01B.dwg	04/26/2017
pmprutil-PH01A.dwg	04/27/2017
pmprutil-PH01B.dwg	04/26/2017
pmprbndy-ph01a.dwg	04/26/2017
pmprbndy-ph01b.dwg	04/26/2017
pm-ph01a-prwklm.dwg	04/26/2017
pm-ph01a-prwklm-demo.dwg	04/26/2017

3. IRRIGATION CONTRACTOR SHALL COORDINATE WITH PROJECT CIVIL ENGINEER REGARDING TAP AND METER LOCATION.
4. THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS, AND APPLICABLE REQUIREMENTS OF OTHER REGULATORY AGENCIES.
5. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE WORK INDICATED ON THE LANDSCAPE DRAWINGS IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS.
6. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE LANDSCAPE ARCHITECT AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN. THE EXACT LOCATION AND ELEVATION OF UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT/CIVIL ENGINEER IMMEDIATELY IF EXACT LOCATION AND/OR ELEVATION IS DIFFERENT THAN WHAT IS SHOWN.
7. PROTECT EXISTING WATER, SEWER, DRAINAGE, TELEPHONE AND COMMUNICATION MAINLINES, DUCT BANKS AND SERVICES THAT ARE TO REMAIN IN PLACE FROM DAMAGE.
8. IF LIVE UTILITIES ARE ENCOUNTERED, NOT PREVIOUSLY INDICATE, PROTECT THE SAME FROM DAMAGE AND IMMEDIATELY NOTIFY THE OWNER AND THE AFFECTED UTILITY PROVIDER. DO NOT PROCEED UNTIL FURTHER INSTRUCTIONS ARE RECEIVED.
9. BACKFILL UTILITY LINES EXPOSED BY WORK OPERATIONS, REPAIR BEDDING AND BACKFILL MATERIALS OF UTILITIES THAT ARE DISPLACED AND DAMAGED DURING WORK. REPLACE CONTAMINATED MATERIALS WITH NEW MATERIALS MATCHING THE EXISTING MATERIALS.
10. REPORT DISCREPANCIES IN DRAWINGS OR SPECIFICATIONS IN WRITING TO THE LANDSCAPE ARCHITECT FOR CLARIFICATIONS AND ADJUSTMENTS BEFORE WORK. ANY DEVIATIONS OR CHANGES IN THESE DRAWINGS WITHOUT WRITTEN ACCEPTANCE OF THE LANDSCAPE ARCHITECT SHALL ABSOLVE THE LANDSCAPE ARCHITECT OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION AND CHANGE.
11. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS
12. FOR DEMOLITION AND UTILITIES, SEE CIVIL DRAWINGS
13. OBTAIN ACCEPTANCE BY LANDSCAPE ARCHITECT OF HORIZONTAL ALIGNMENT OF ELEMENTS IN THE FIELD FROM LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
14. DIMENSIONS INDICATED ON PLANS FOR HORIZONTAL CONTROL ARE ACCURATE IF MEASURED ON A LEVEL LINE. MEASURE HORIZONTAL CONTROL DIMENSIONS ON A LEVEL LINE, NOT PARALLEL WITH GROUND SLOPE.
15. PLANT LOCATIONS TAKE PRECEDENCE OVER IRRIGATION VALVE BOX LOCATIONS. MOVE INSTALLED IRRIGATION VALVE BOXES CONFLICTING WITH ACCEPTED PLANT LOCATIONS.
16. OBTAIN ACCEPTANCE OF PLANT MATERIAL LOCATIONS BY LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION OF TREE BUBBLER PIPE AND HEADS.
17. PLANTS AND WOOD CHIP MULCH ARE NOT SHOWN ON SOME DETAILS FOR PURPOSES OF CLARITY. SEE PLANTING PLAN FOR PLANT MATERIAL AREAS AND SEE TYPICAL PLANTING AREA DETAILS AND SPECIFICATIONS FOR LIMIT OF WOOD CHIP MULCH.
18. SEE CIVIL DRAWINGS FOR STREET SIDEWALKS, GRADING, CURB RAMP, UTILITIES, VEHICULAR PAVING AND GUTTER DETAILS.
19. CONTRACTOR TO PROVIDE SURVEY AT GROUND LEVEL AND CONFIRM EXISTING CONDITIONS.
20. DURING DEMOLITION AND CONSTRUCTION, TREE PROTECTION ZONES SHALL BE INSTALLED AND MAINTAINED WITH AN IRRIGATION SYSTEM.
21. PROVIDE TEMPORARY IRRIGATION FOR ALL EXISTING TO REMAIN TREES UNTIL PERMANENT IRRIGATION SYSTEM IS INSTALLED.

SHEET INDEX

PWP LANDSCAPE ARCHITECTURE
739 Allston Way
Berkeley, CA 94710
510.849.9494

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
INDEX, NOTES AND LEGEND
SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

NOT FOR CONSTRUCTION

Revisions | No.

Date: 05/01/17
Scale: NONE
Design: LEAD
Drawn: TEAM
Approved: LEAD
Job No: MAX 1401

Drawing Number:
L00.01

DRAWING NAME: O:\MAX\1401\Current\ACAD\Plans\Sheets\Streets 10_100p SIP - Approved Set for Board Submittal\PH01A_L00.XX INDEX.dwg (L00.01)
PLOT TIME: 4-28-2017 10:29 AM PLOTTED BY: jugons

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

LANDSCAPE INDEX, NOTES AND LEGEND

GENERAL-ALL SHEETS

- LIMIT OF WORK
- MATCHLINE
- NOT IN SCOPE
- SECTION/ELEVATION DETAIL
- BREAKLINE
- CENTERLINE
- ALIGN
- POB — POINT OF BEGINNING (P.O.B.)
- Z — FLUSH
- REVISION DELTA
- REVISION CLOUD
- DETECTABLE WARNING - SCD
- STREET LIGHT -SCD
- STREET LIGHT -SCD

X / LXX.XX
- DETAIL NUMBER
- SHEET NUMBER

MATERIAL DETAIL KEY NUMBER

LXX.XX
- SERIES NUMBER
- SHEET NUMBER

SHEET NUMBERING

MATERIALS

- WOOD CHIP MULCH -SEE 1/L07.01
- AGGREGATE MULCH -SEE 2/L07.01
- TREE GRATE WITH TREE STAKE - MULCH, NOT SHOWN FOR CLARITY - SEE 1&2 / L08.01
- TRASH RECEPTACLE - DPW STANDARD
- BIKE RACK - SEE 3 / L08.01

NOTES:

1. THESE HATCHES APPLY TO MATERIALS PLAN ONLY.

SOILS

- SOIL - SEE CIVIL DRAWINGS FOR MATERIAL AND EXTENTS
- 18" PLANTING SOIL - SEE 2\L09.01
- 36" PLANTING SOIL - SEE 1\L09.01
- AMEND IN PLACE - SEE 4\L09.01

NOTES:

1. THESE HATCHES APPLY TO SOILS PLAN ONLY.
2. SEE CIVIL SHEETS FOR BIORETENTION AND STRUCTURAL SOIL EXTENTS.

PLANTING

PROPOSED TREE
- TREE SPECIES
- TREE TRUNK
- BOX OR CONTAINER SIZE

CM 24

PROPOSED UNDERSTORY PLANTING
- STEM
- SPECIES
- CONTAINER SIZE

LC 1G

NOTE: SEE L02.01-L02.06 FOR PLANT SPECIES, SIZES, LOCATIONS AND QUANTITIES. PLAN CENTERS TAKE PRECEDENCE OVER SPACING DIAGRAM.

EXISTING TREE TO REMAIN
- TREE TRUNK
- EXTENT OF CANOPY
- TREE IDENTIFICATION NUMBER

#180.1

TREES

	BOTANICAL NAME	COMMON NAME	NOTES
AM	ARBUTUS MARINA	MARINA STRAWBERRY TREE	STANDARD
CM	CUPRESSUS MACROCARPA	MONTEREY CYPRESS	
GB	GINKGO BILOBA 'AUTUMN GOLD'	GINKGO	STANDARD
LP	LAGUNARIA PATERSONII	PRIMROSE TREE	STANDARD
LF	LYOTHAMNUS FLORIBUNDAS 'ASPLENIFOLIA'	CATALINA IRONWOOD	STANDARD
PC	PINUS CANARIENSIS	CANARY ISLAND PINE	STANDARD
UP	ULMUS PARVIFOLIA 'DRAKE'	CHINESE ELM	STANDARD

UNDERSTORY

	BOTANICAL NAME	COMMON NAME	NOTES
AB	ANIGOZANTHOS 'BUSH RANGER'	DWARF KANGAROO PAW	
CG	CEANOTHUS GRISEUS 'YANKEE POINT'	YANKEE POINT CEANOTHUS	

BIORETENTION SWALES

			SPACING	QUANTITY
CS	CORNUS SERICEA	RED TWIG DOGWOOD	30" O.C. AS SHOWN	768
JP	JUNCUS PATENS	CALIFORNIA GRAY RUSH	18" O.C. AS SHOWN	3052

BIORETENTION PLANTERS

LC	LEYMUS CONDENSATUS 'CANYON PRINCE'	CANYON PRINCE WILD RYE	18" O.C. AS SHOWN	1889

NOTES:

1. REFER TO SHEETS L00.01 FOR GENERAL NOTES
2. REFER TO SHEET L07.01-L07.03 FOR PLANTING DETAILS
3. CONTRACTOR RESPONSIBLE FOR ALL QUANTITIES OF MATERIALS AS INDICATED ON PLANS.

PWP LANDSCAPE ARCHITECTURE
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PHASE 1A STREET IMPROVEMENT PLANS
INDEX, NOTES AND LEGEND
SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

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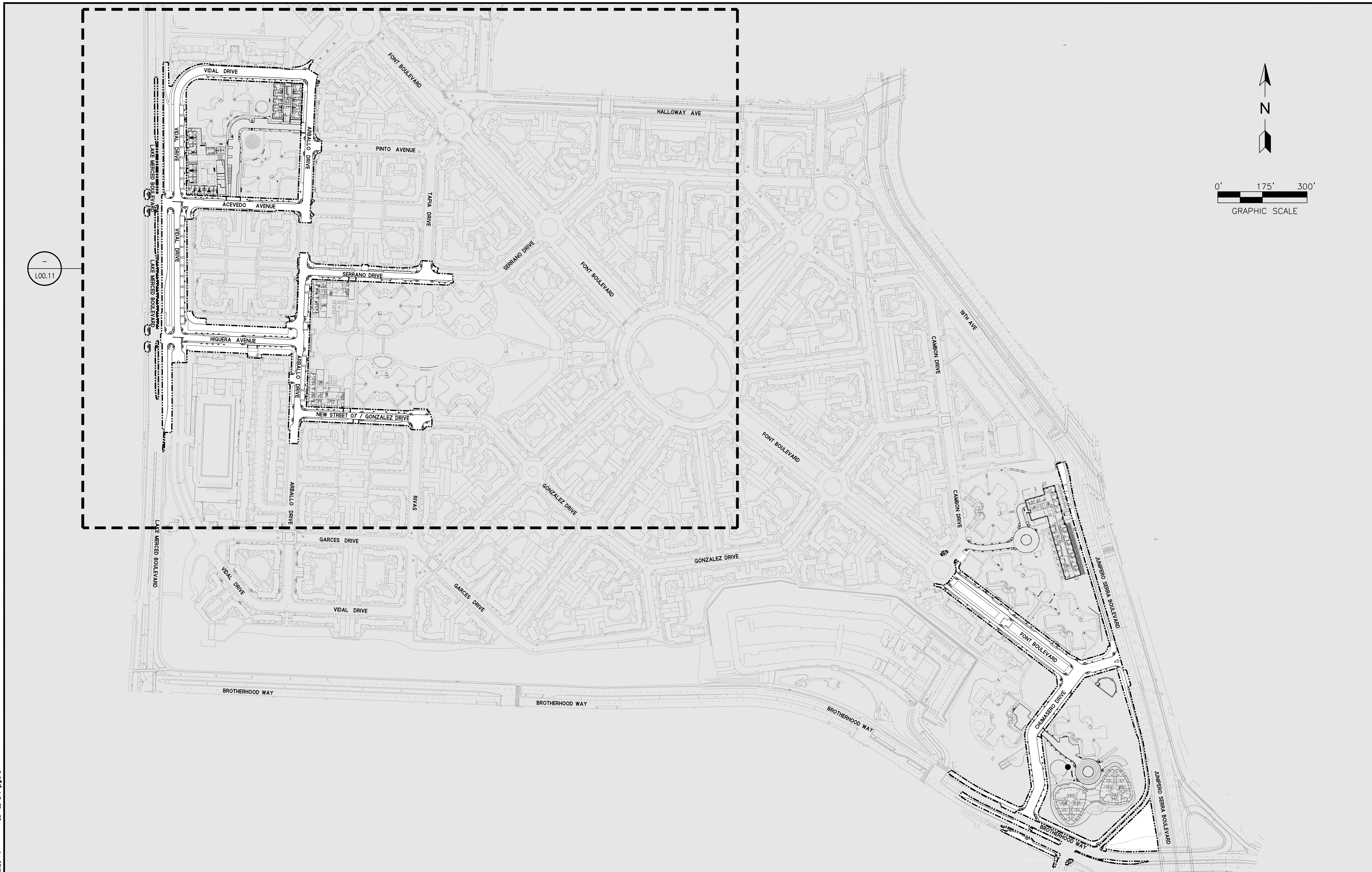

NOTES:

1. REFER TO SHEETS L00.01-L00.02 FOR GENERAL NOTES AND LEGENDS

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PHASE 1A STREET IMPROVEMENT PLANS
PHASE 1A AREA IDENTIFICATION PLAN

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Date: 05/01/17
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L00.10

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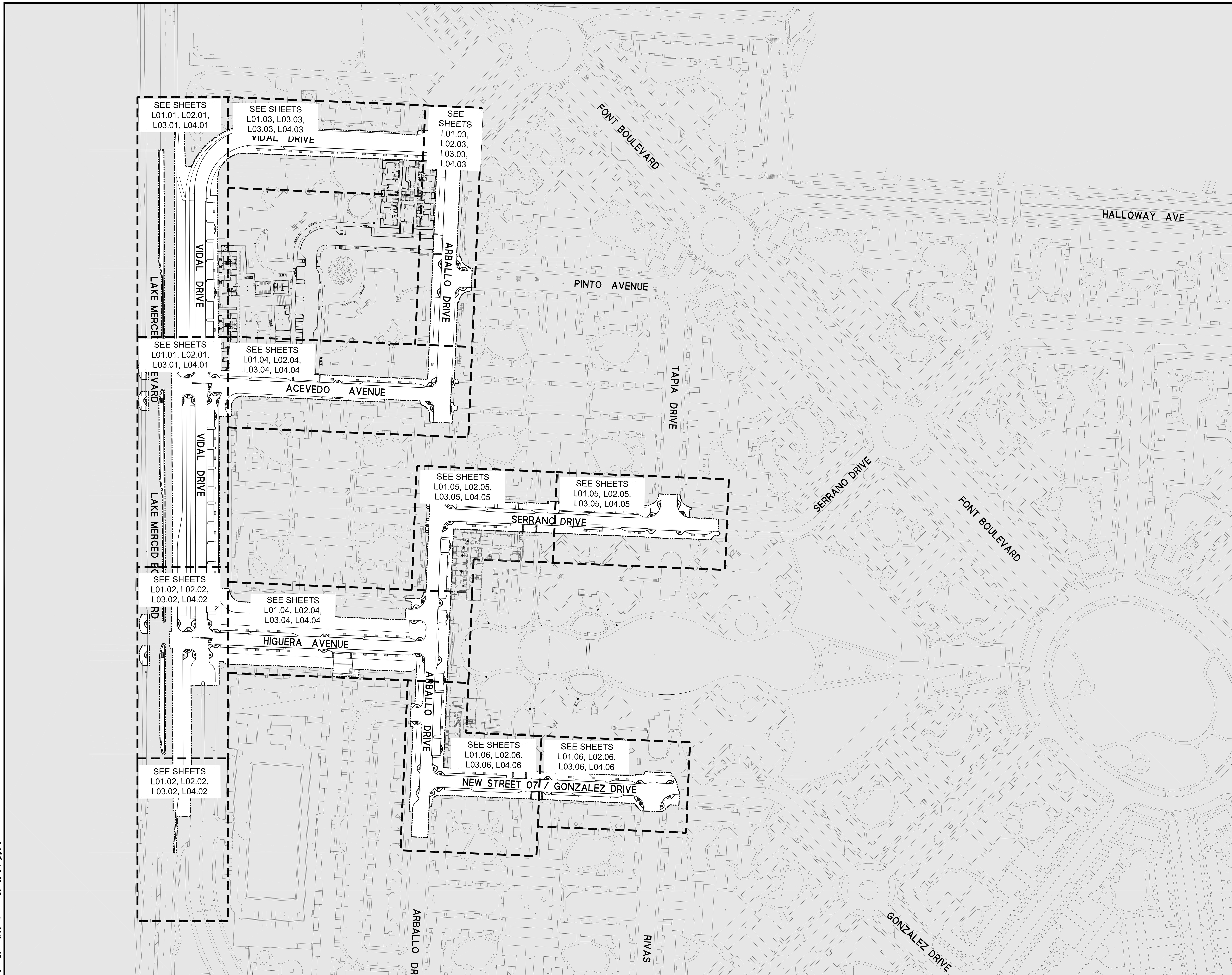

NOTES:

1. REFER TO SHEETS L00.01-L00.02 FOR GENERAL NOTES AND LEGENDS

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PHASE 1A STREET IMPROVEMENT PLANS
SHEET TILING PLAN

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REGISTERED LANDSCAPE ARCHITECT · DOUGLAS ROSS FINDLAY · No. 3283 · DATE BELOW · STATE OF CALIFORNIA · EXP. 06/30/2018
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Date: 05/01/17
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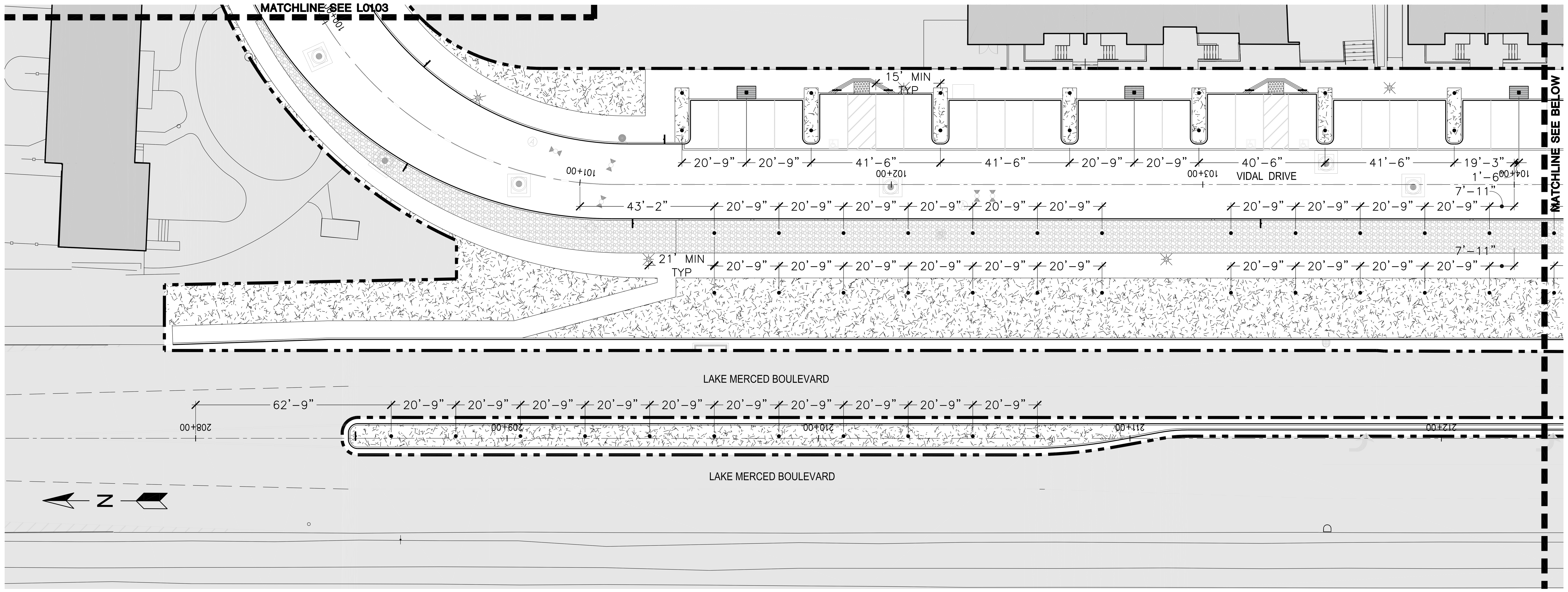

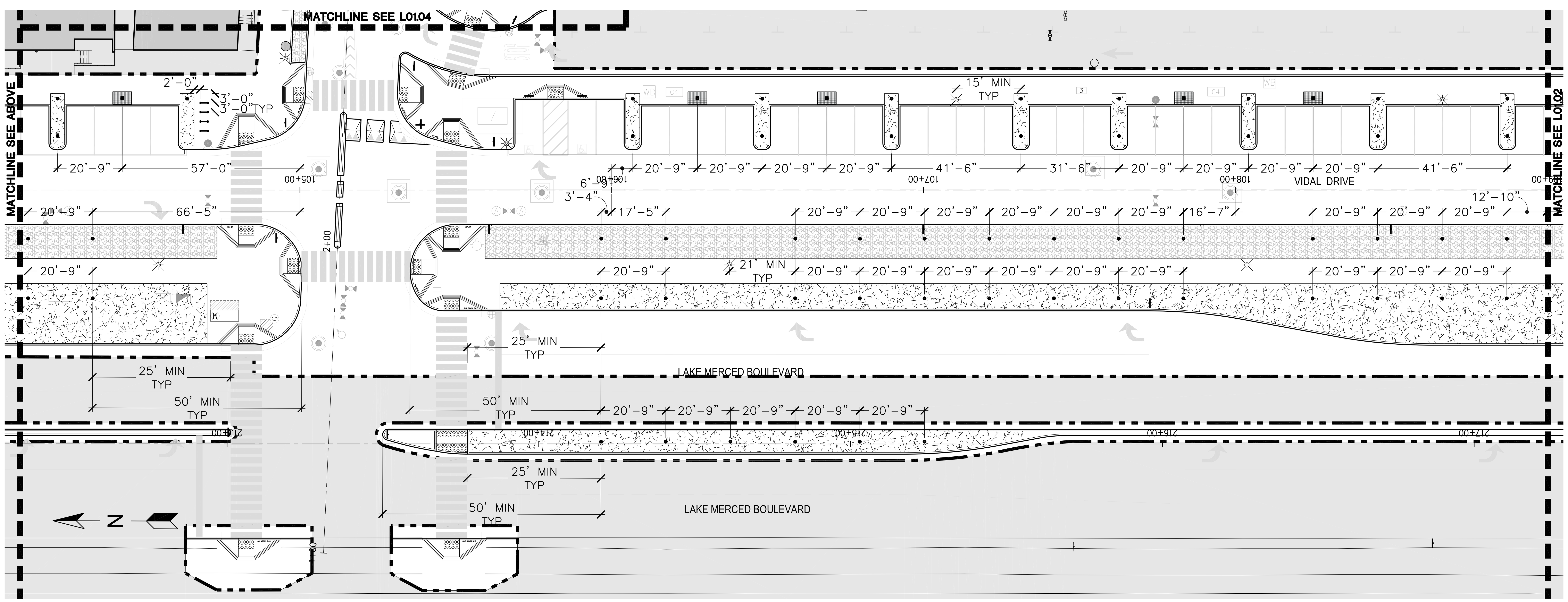

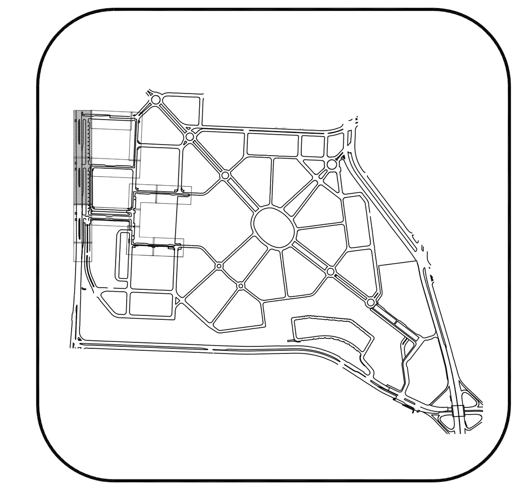

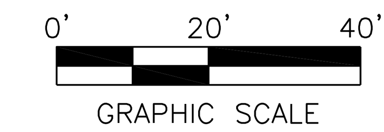

NOTES:

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PHASE 1A STREET IMPROVEMENT PLANS

MATERIALS PLAN

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L01.01

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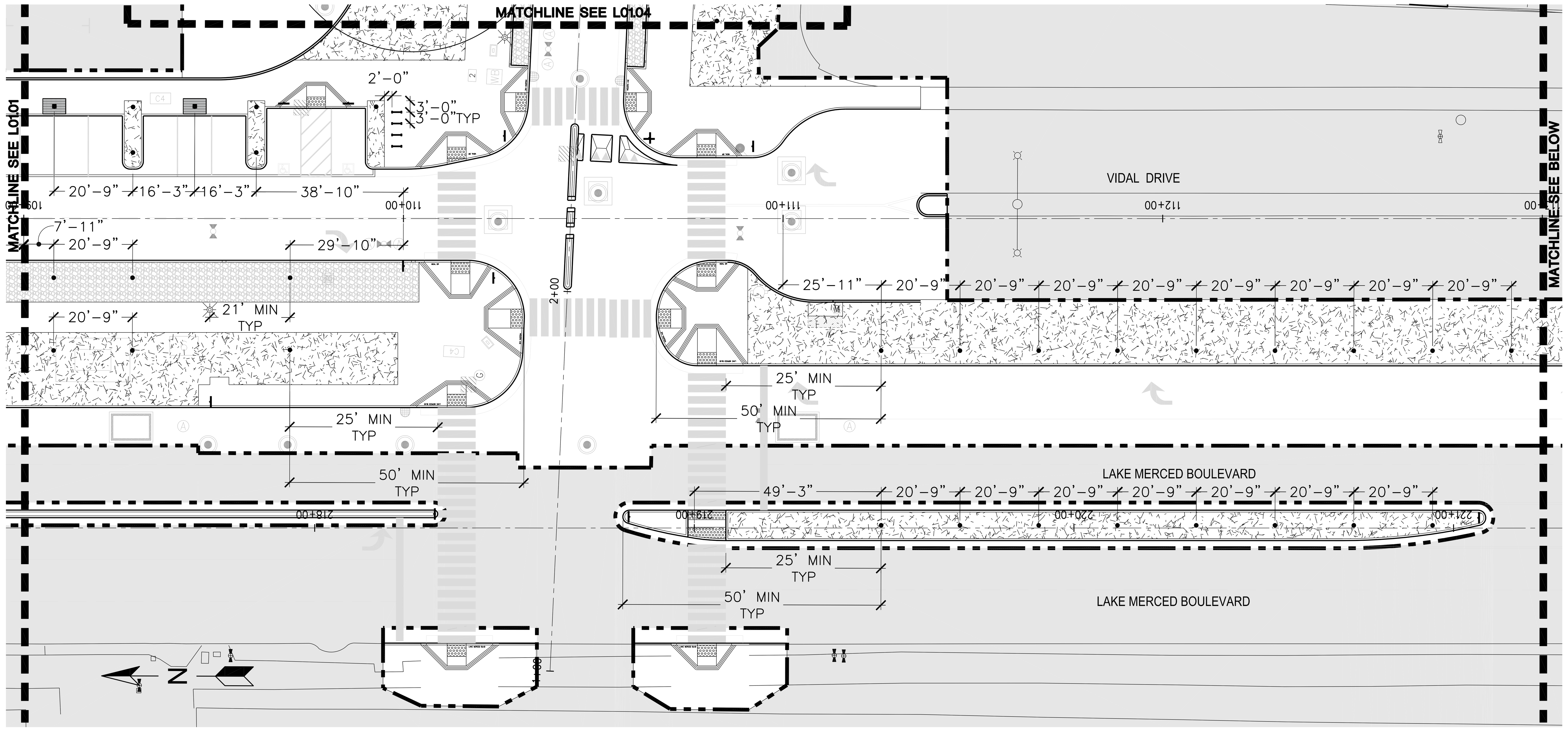

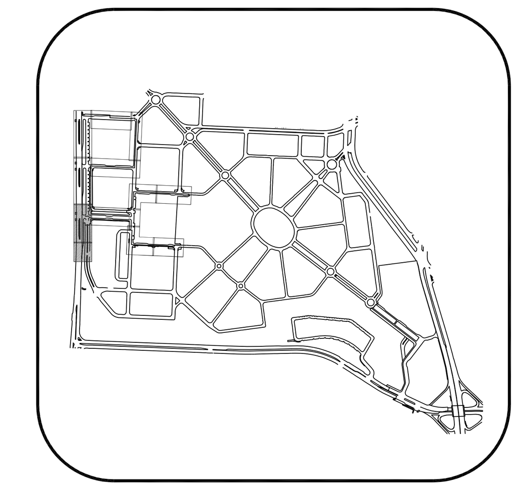

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GRAPHIC SCALE

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1. REFER TO SHEETS L00.01-L00.02 FOR GENERAL NOTES AND LEGENDS

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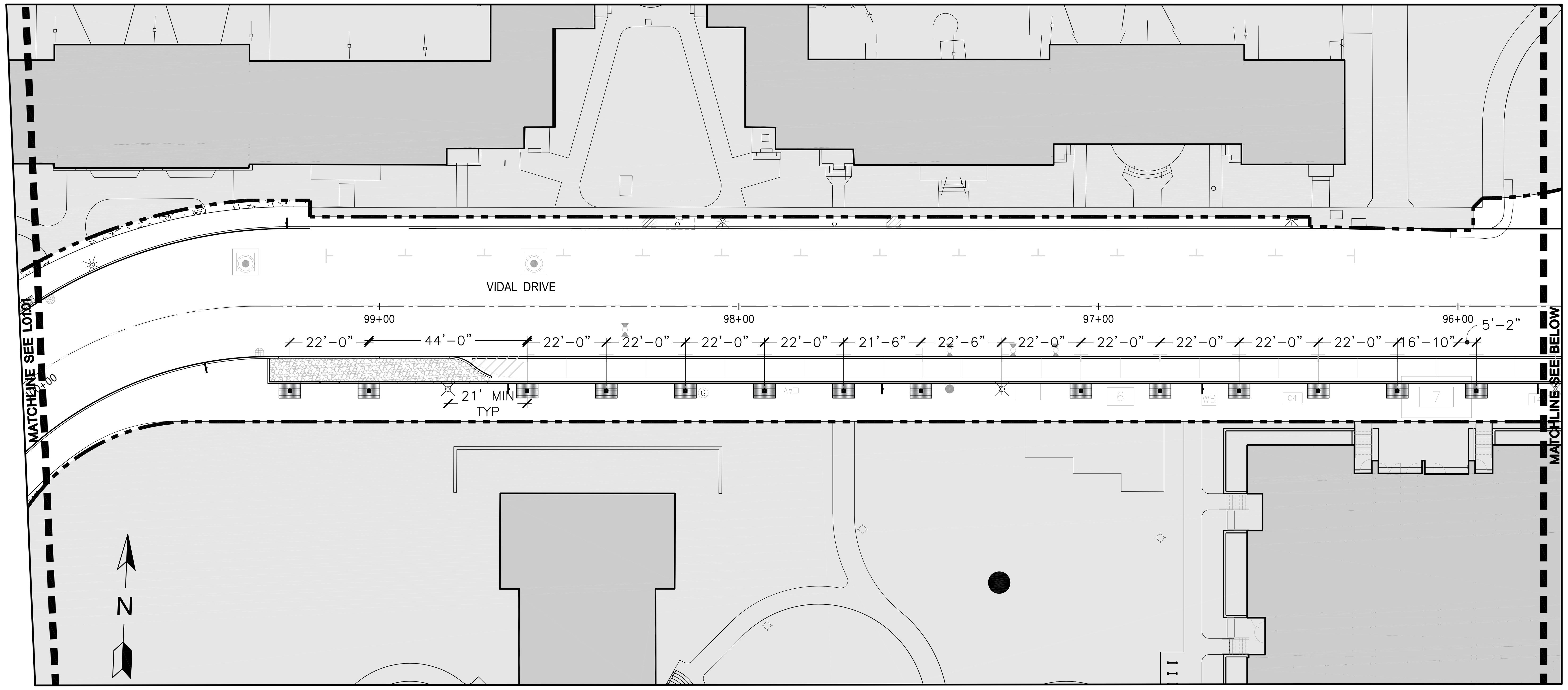

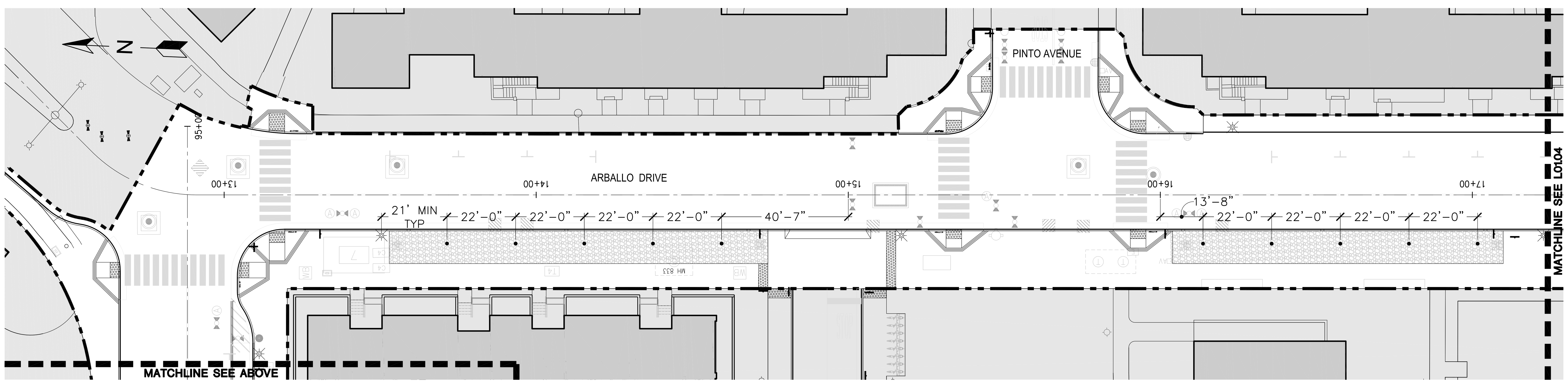

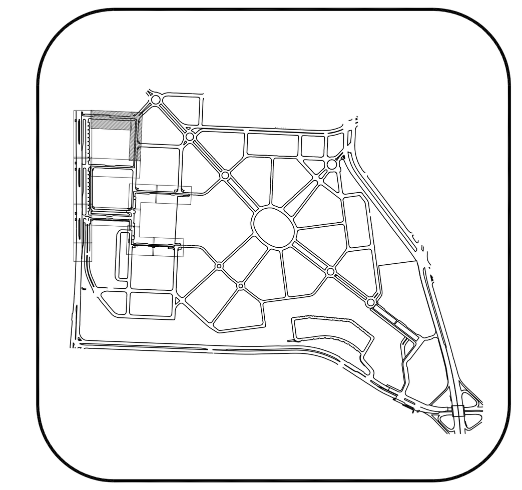

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GRAPHIC SCALE

NOTES:

1. REFER TO SHEETS L00.01-L00.02 FOR GENERAL NOTES AND LEGENDS

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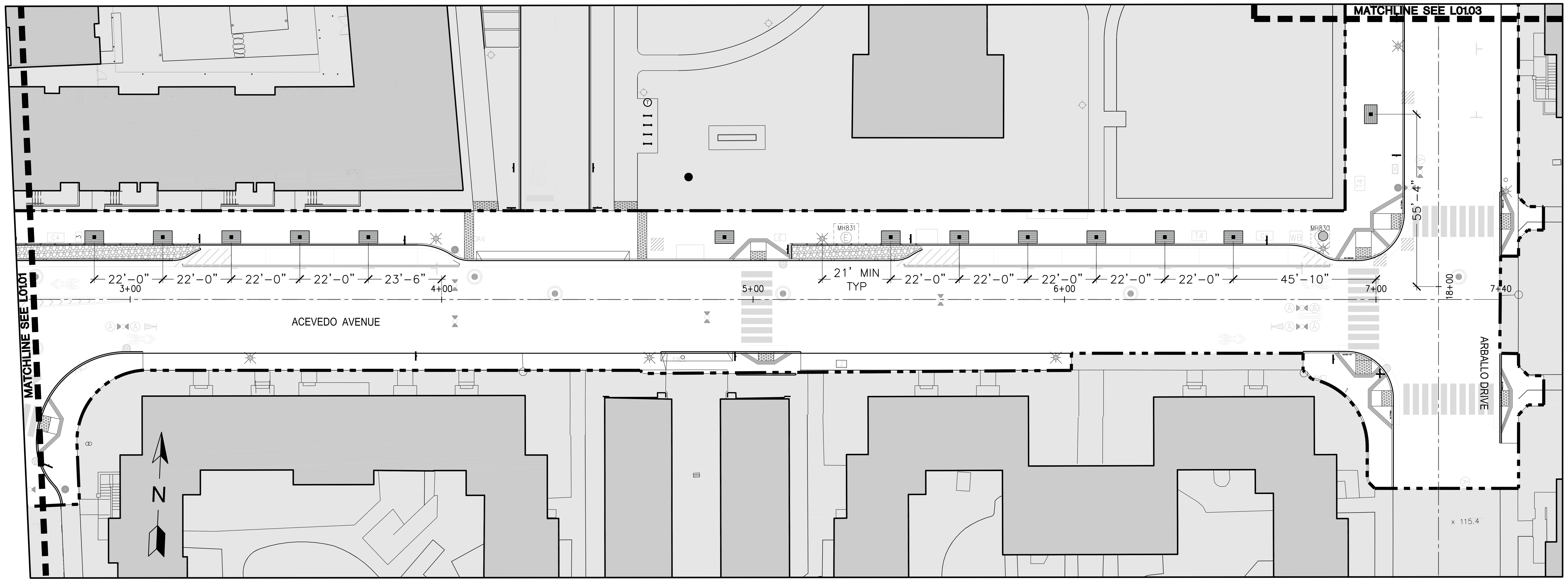

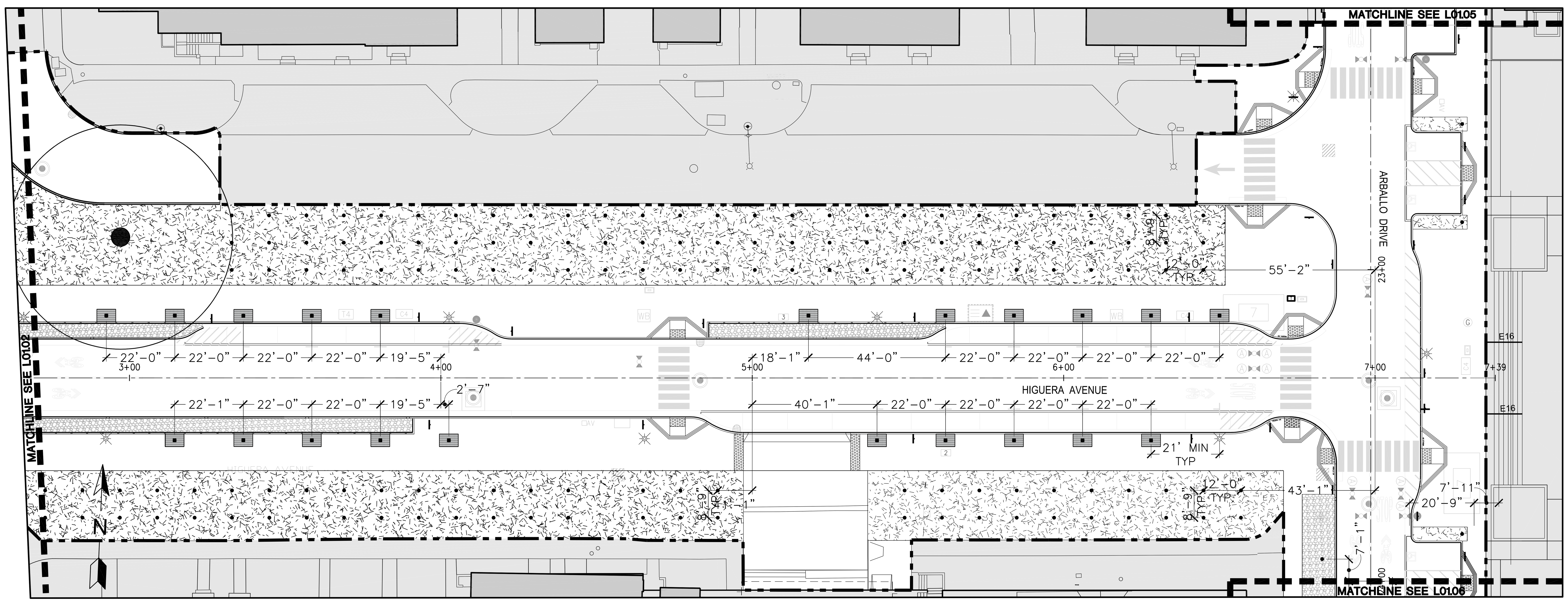

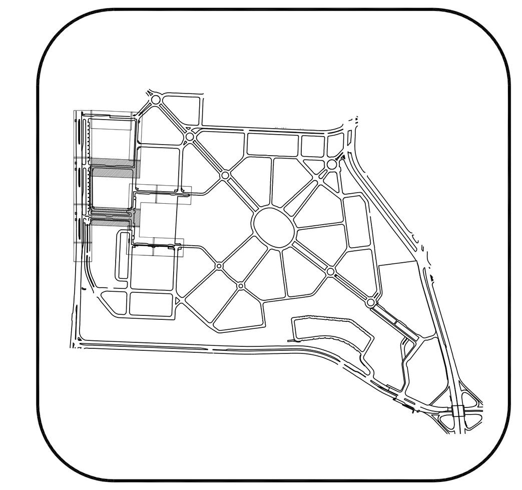

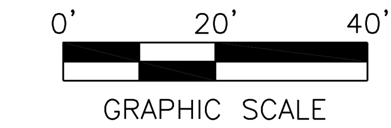

NOTES:

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MATERIALS PLAN

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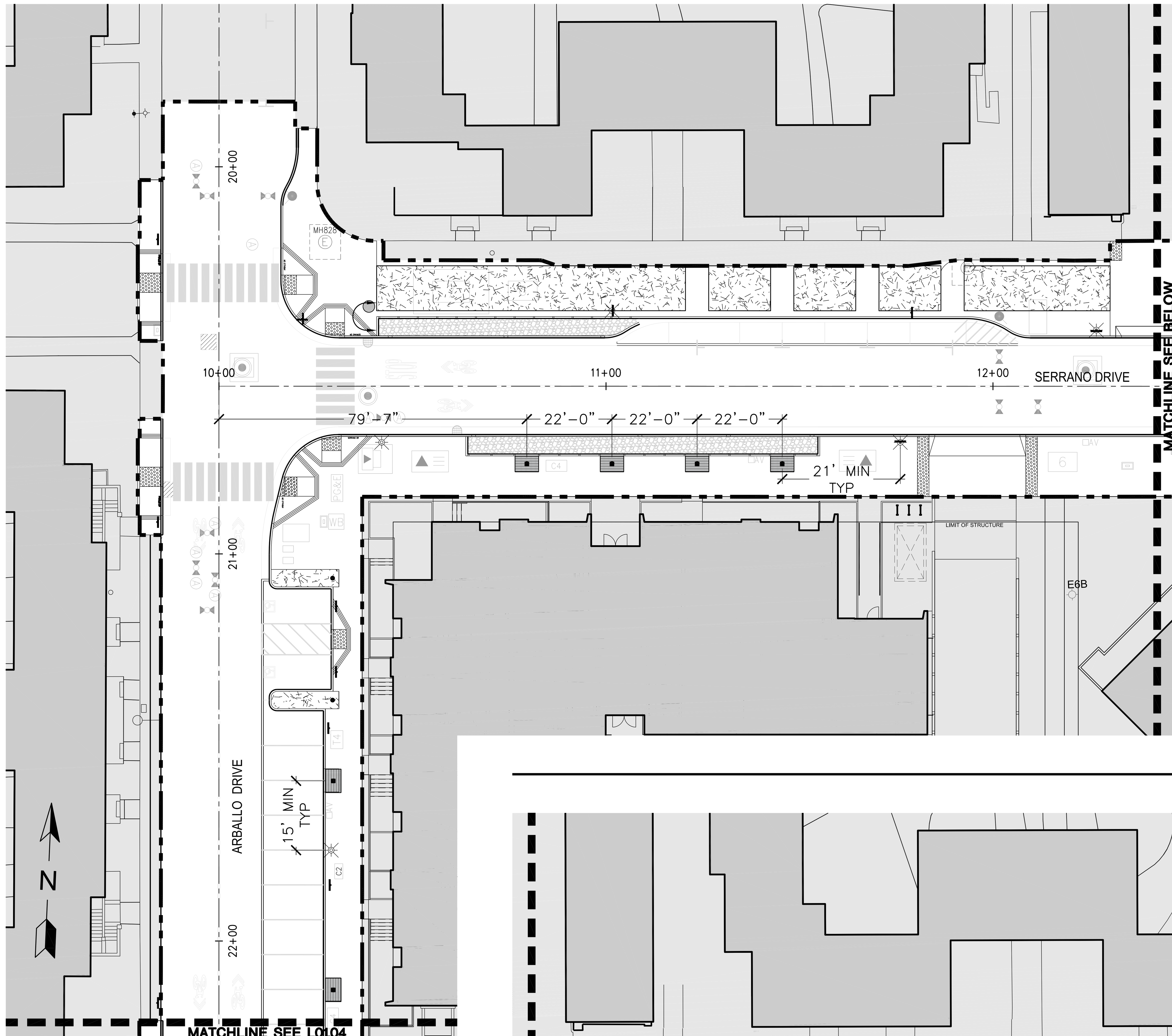

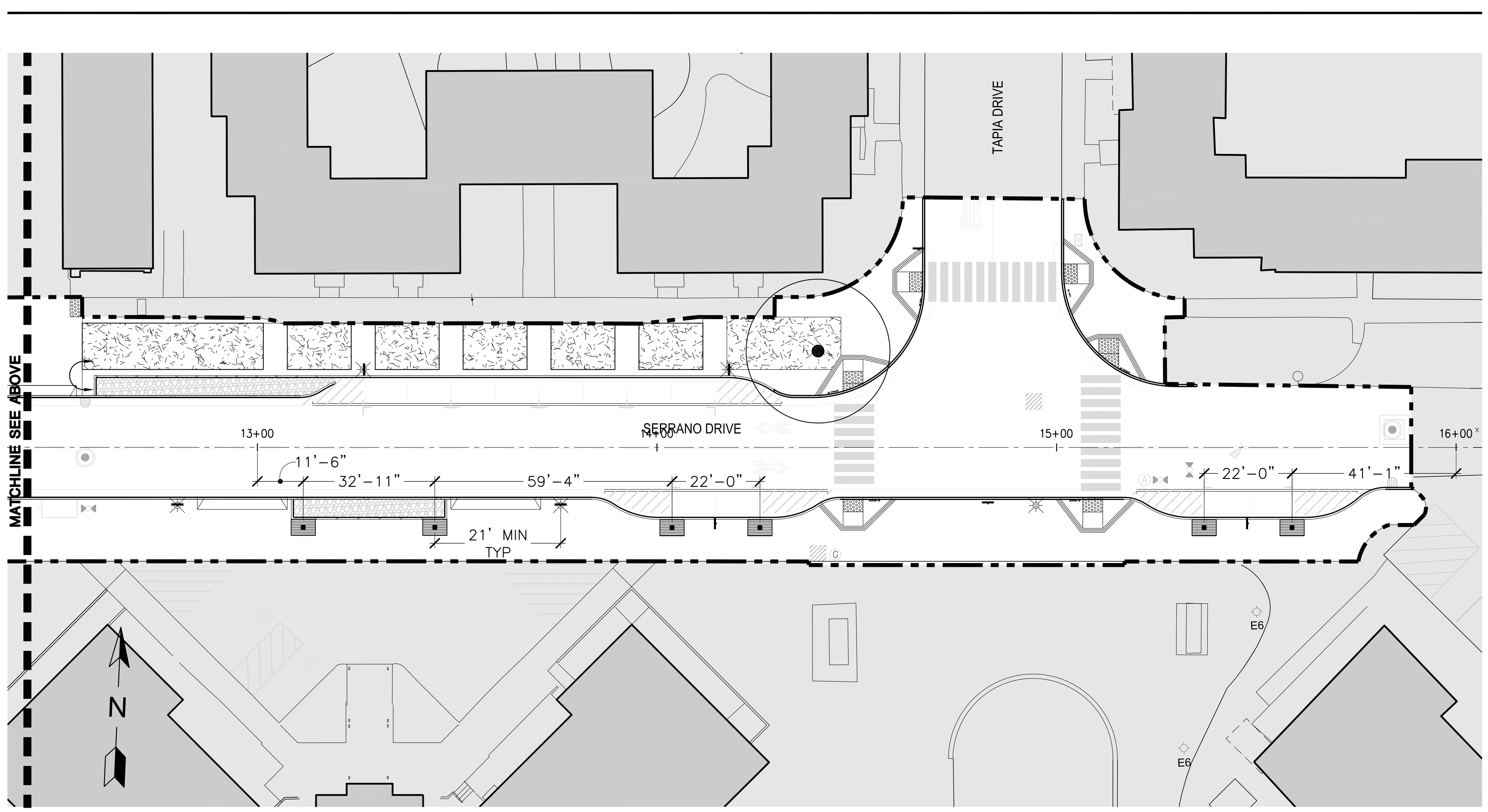

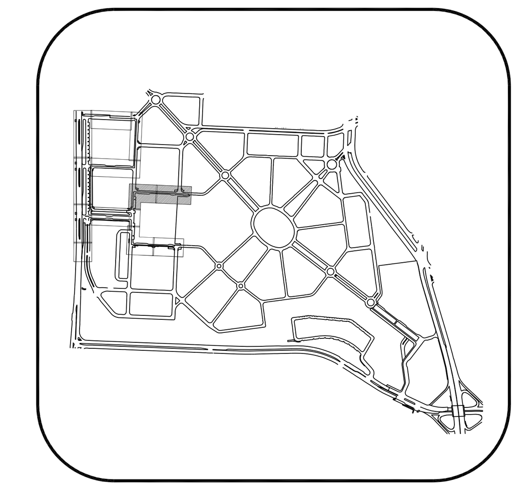

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GRAPHIC SCALE

NOTES:

1. REFER TO SHEETS L00.01-L00.02 FOR GENERAL NOTES AND LEGENDS

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PHASE 1A STREET IMPROVEMENT PLANS

MATERIALS PLAN

SAN FRANCISCO | SAN FRANCISCO COUNTY | CALIFORNIA

REGISTERED LANDSCAPE ARCHITECT
DOUGLAS ROSS FINDLAY No. 3283
Signature
DATE BELOW
Date
STATE OF CALIFORNIA
EXP. 06/30/2018
NOT FOR CONSTRUCTION

No.	Revisions

Date: 05/01/17
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Job No: MAX 1401

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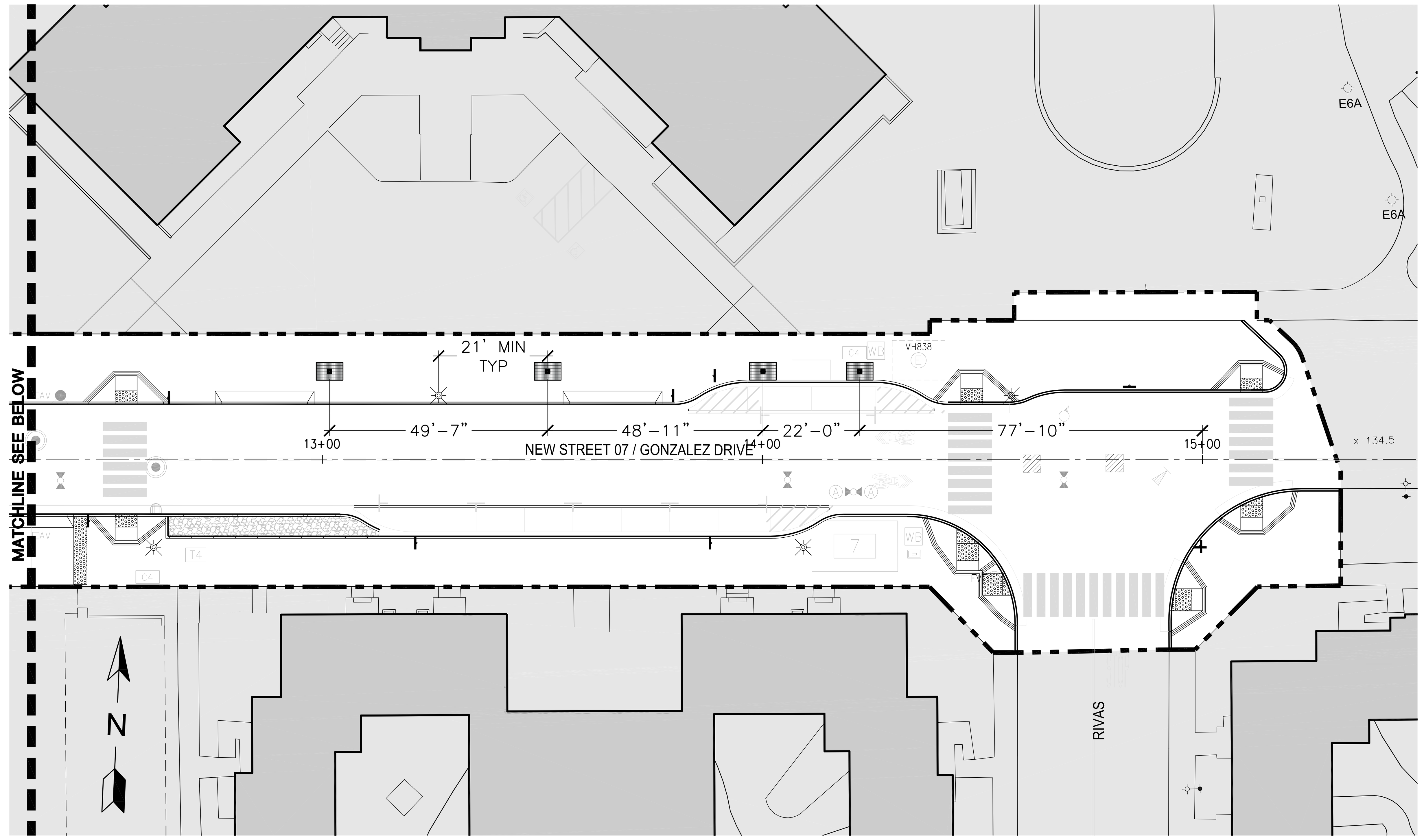

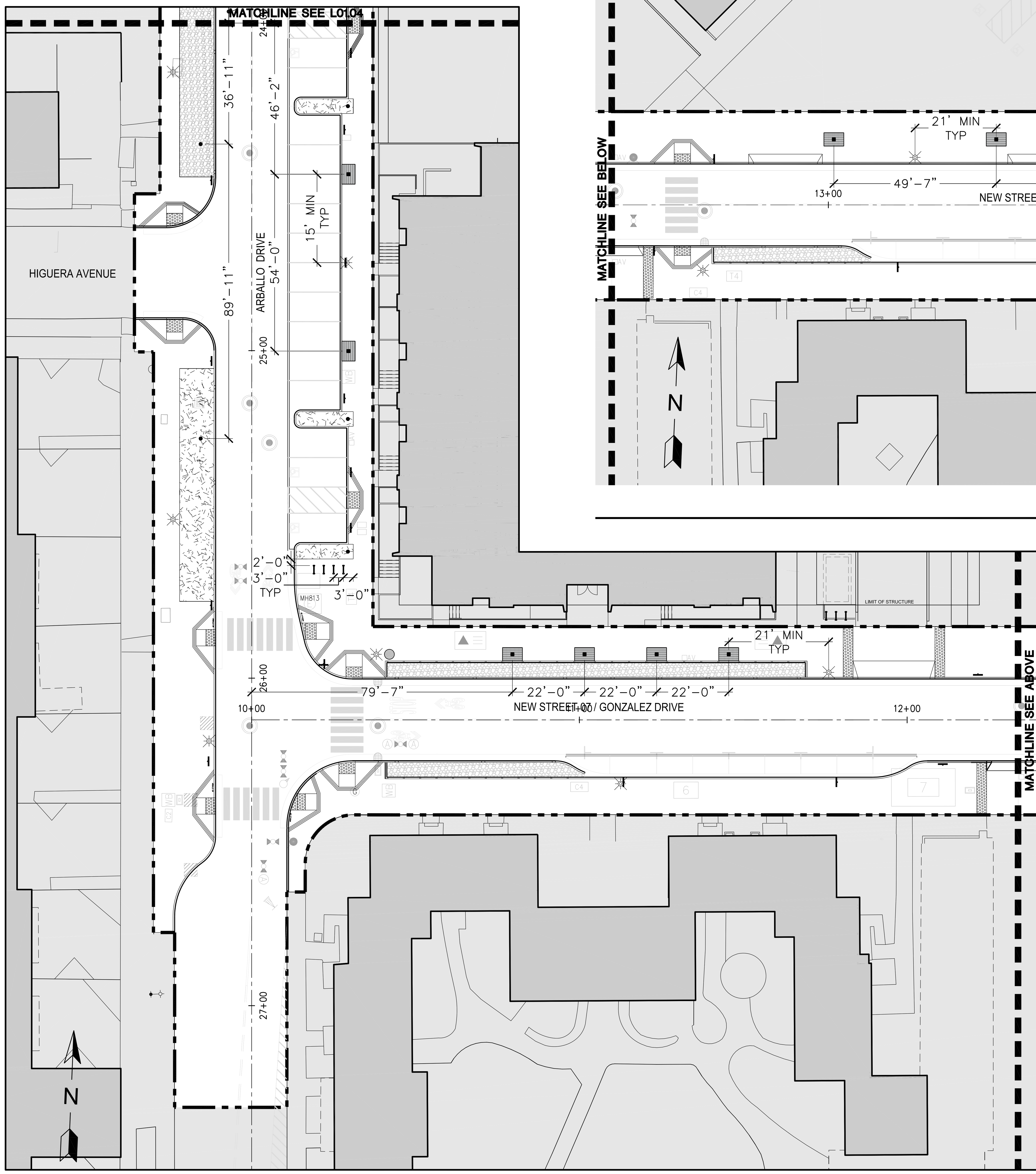

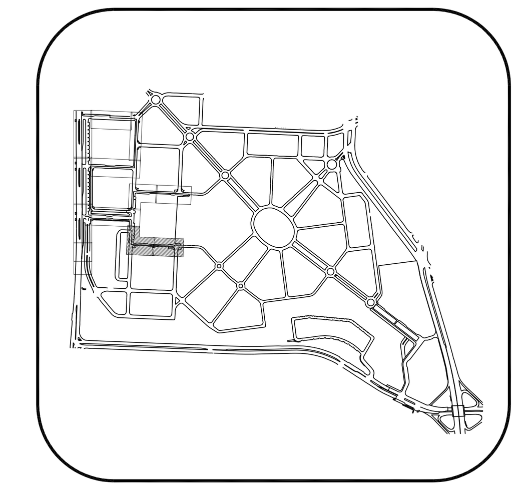

0' 20' 40'
GRAPHIC SCALE

NOTES:

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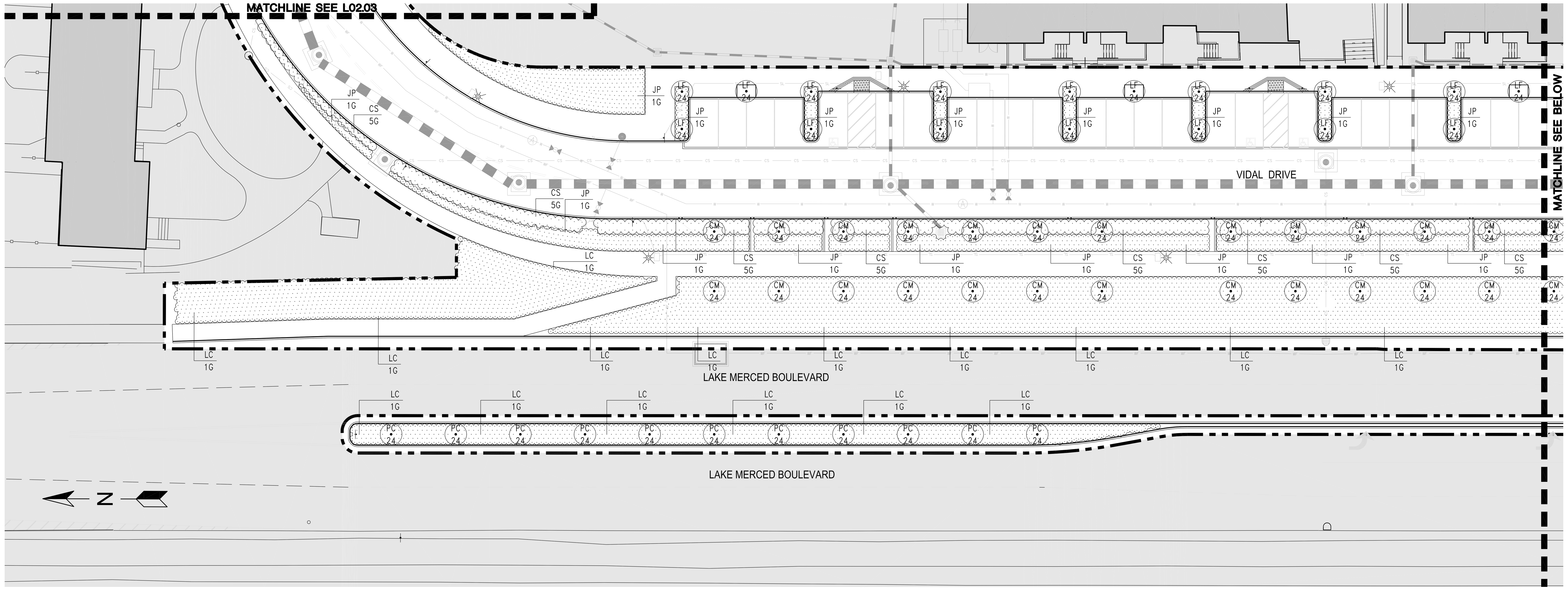

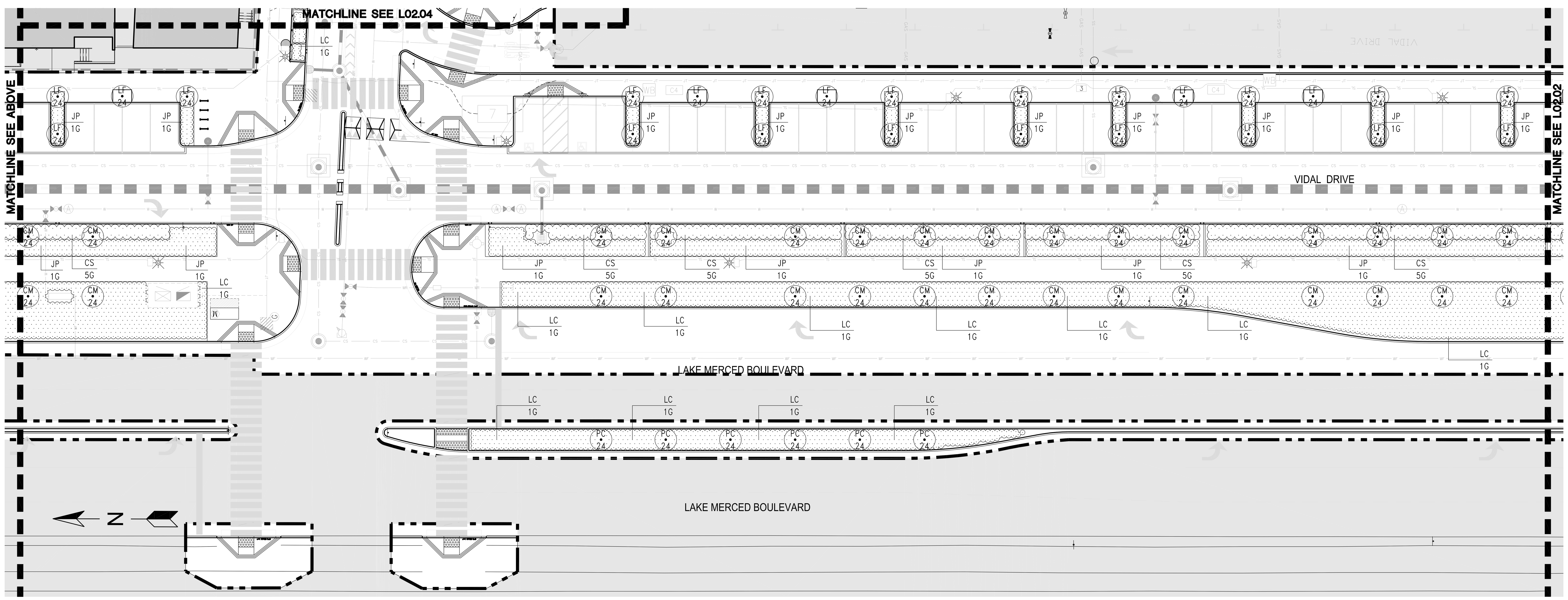

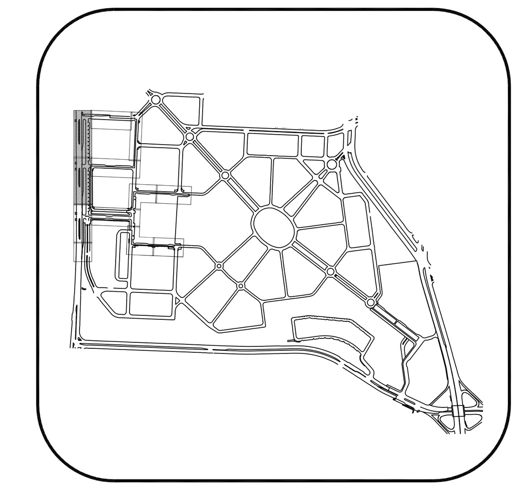

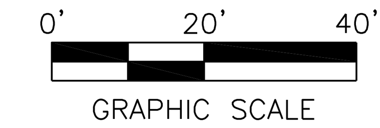

NOTES:

1. REFER TO SHEETS L00.01-L00.02 FOR GENERAL NOTES AND LEGENDS

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739 Allston Way
Berkeley, CA 94710
510.849.9494

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PHASE 1A STREET IMPROVEMENT PLANS
PLANTING PLAN

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No.	Revisions

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Drawn: TEAM
Approved: LEAD
Job No: MAX 1401

Drawing Number:
L02.01

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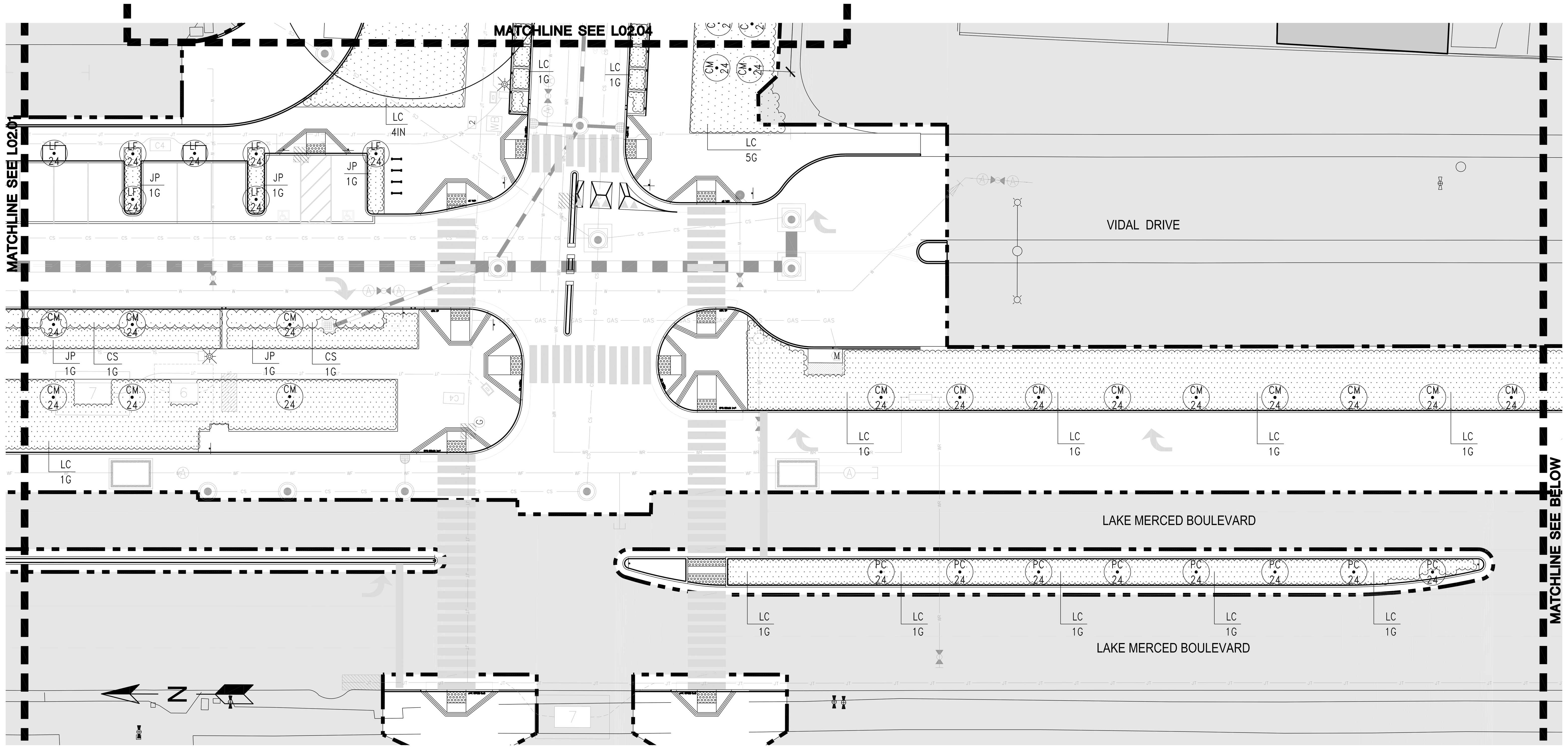

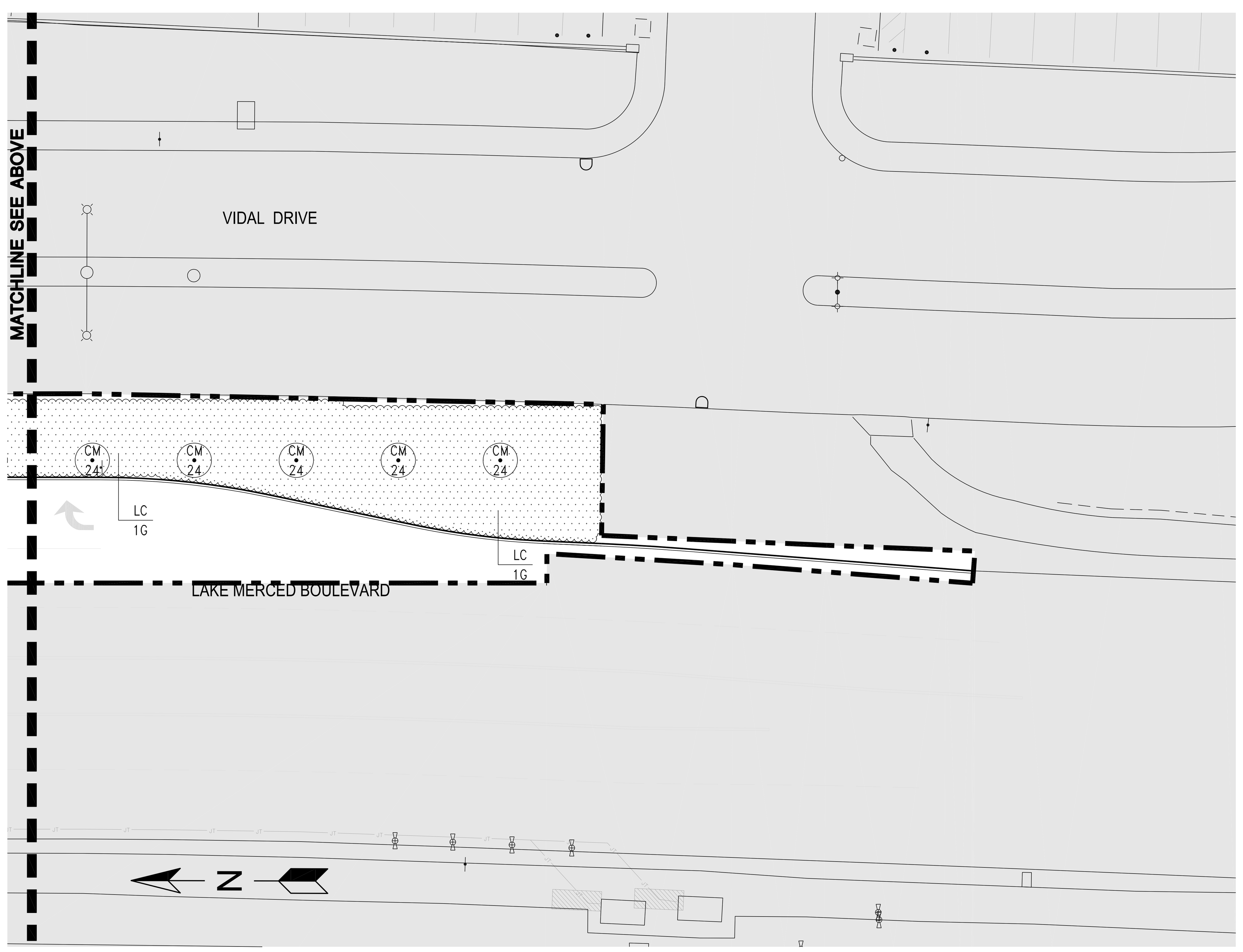

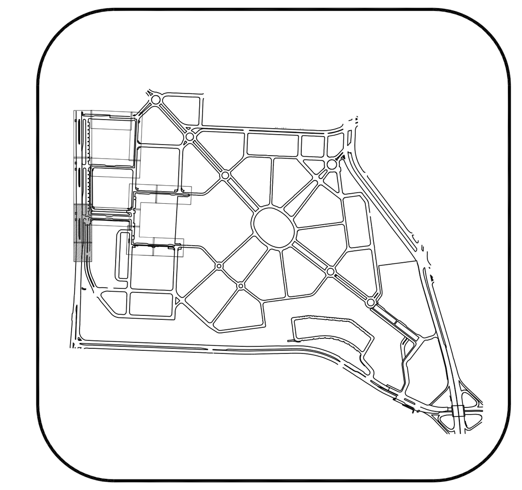

0' 20' 40'
GRAPHIC SCALE

NOTES:

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Drawing Number:
L02.02

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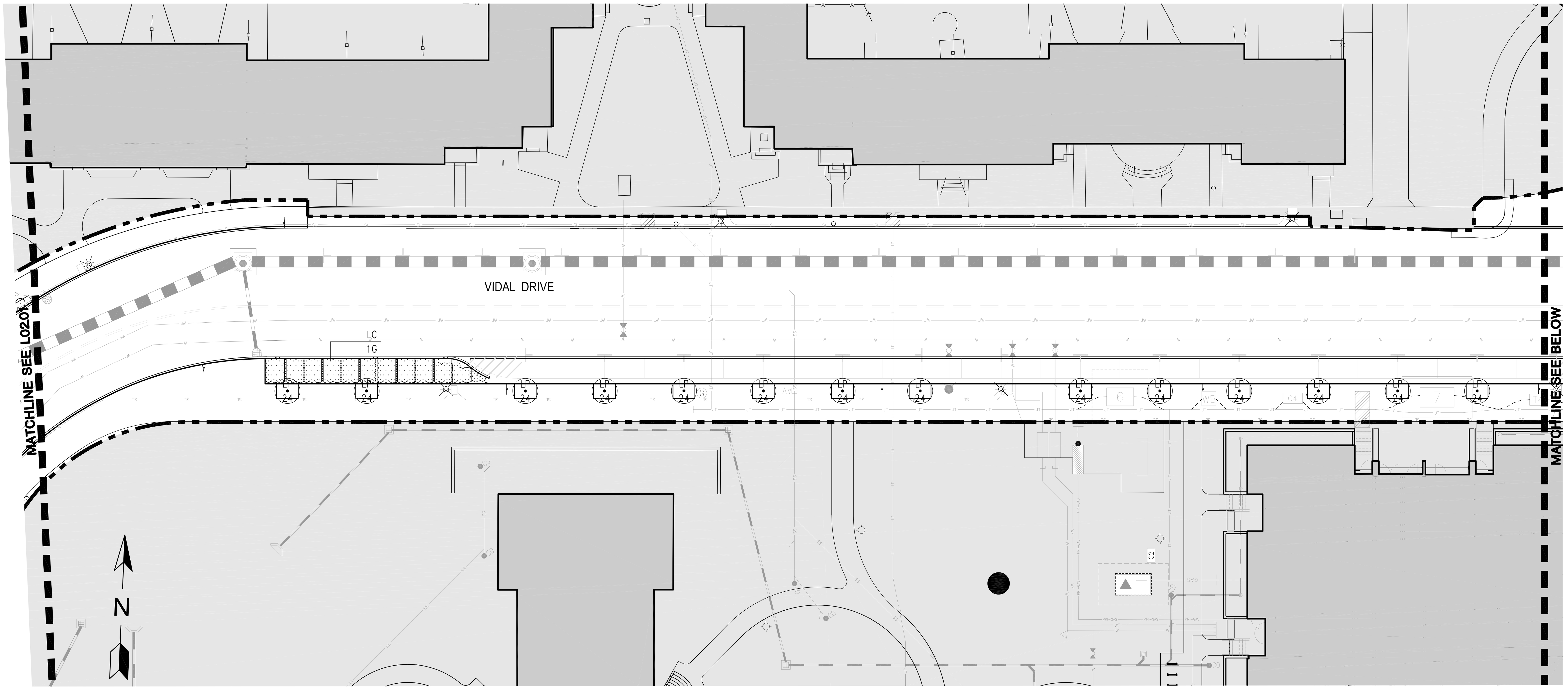

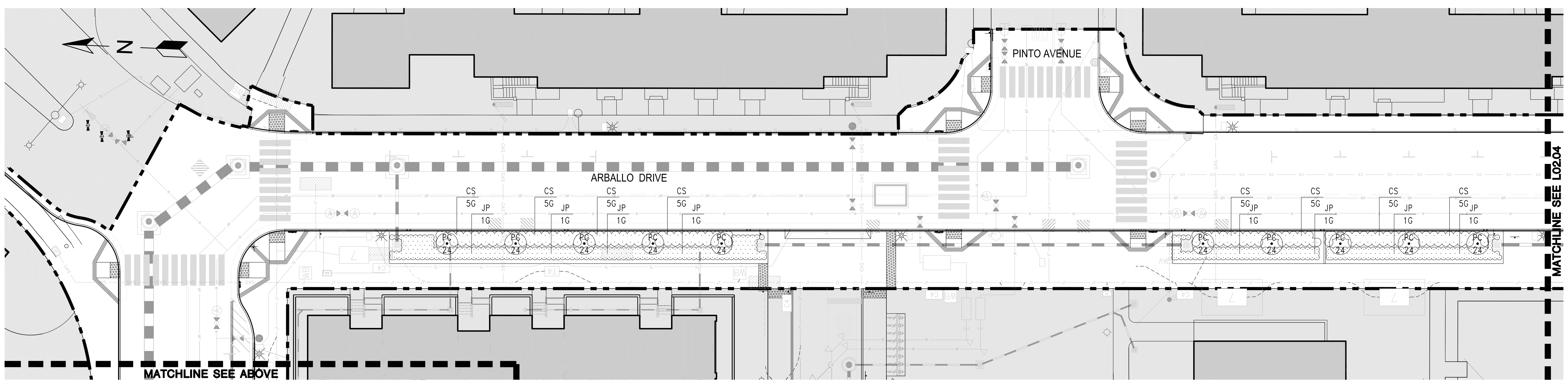

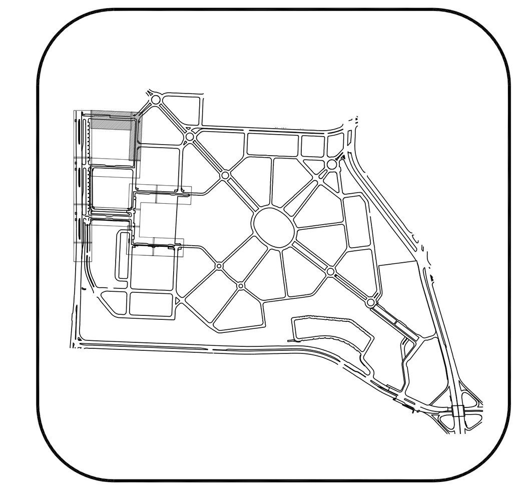

0' 20' 40'
GRAPHIC SCALE

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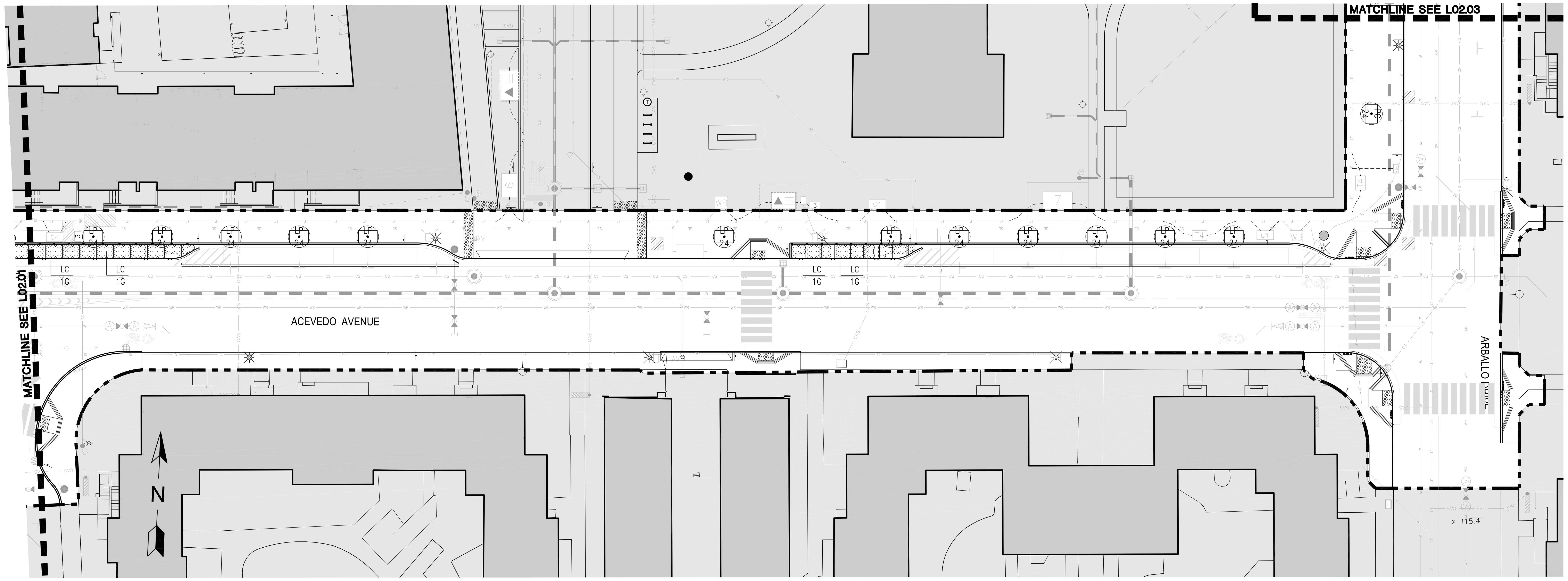

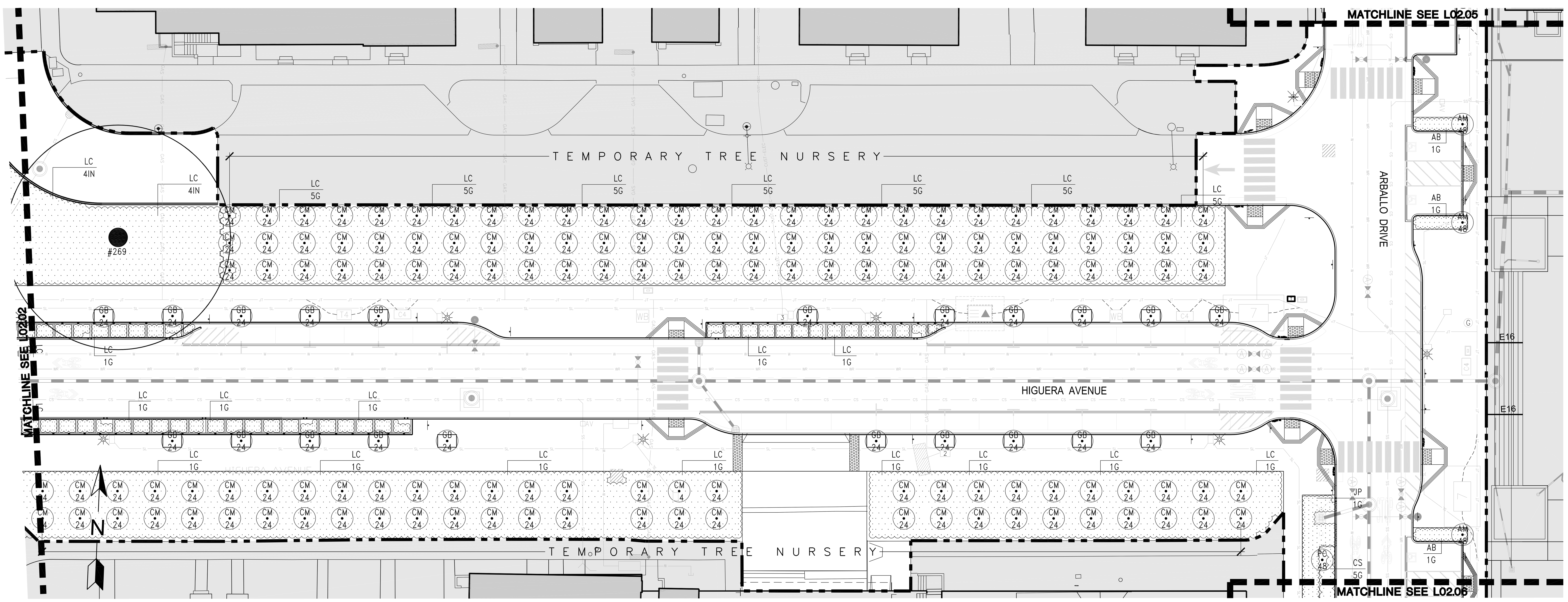

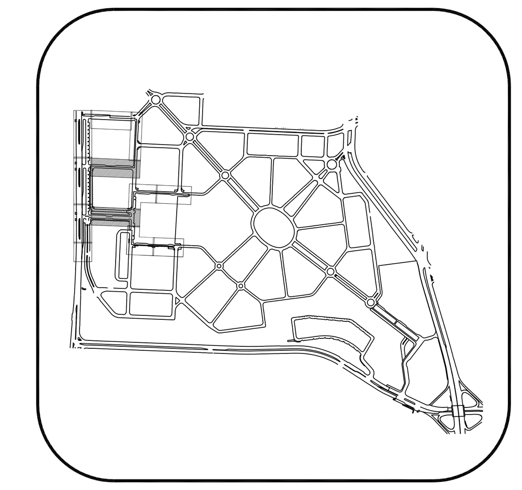

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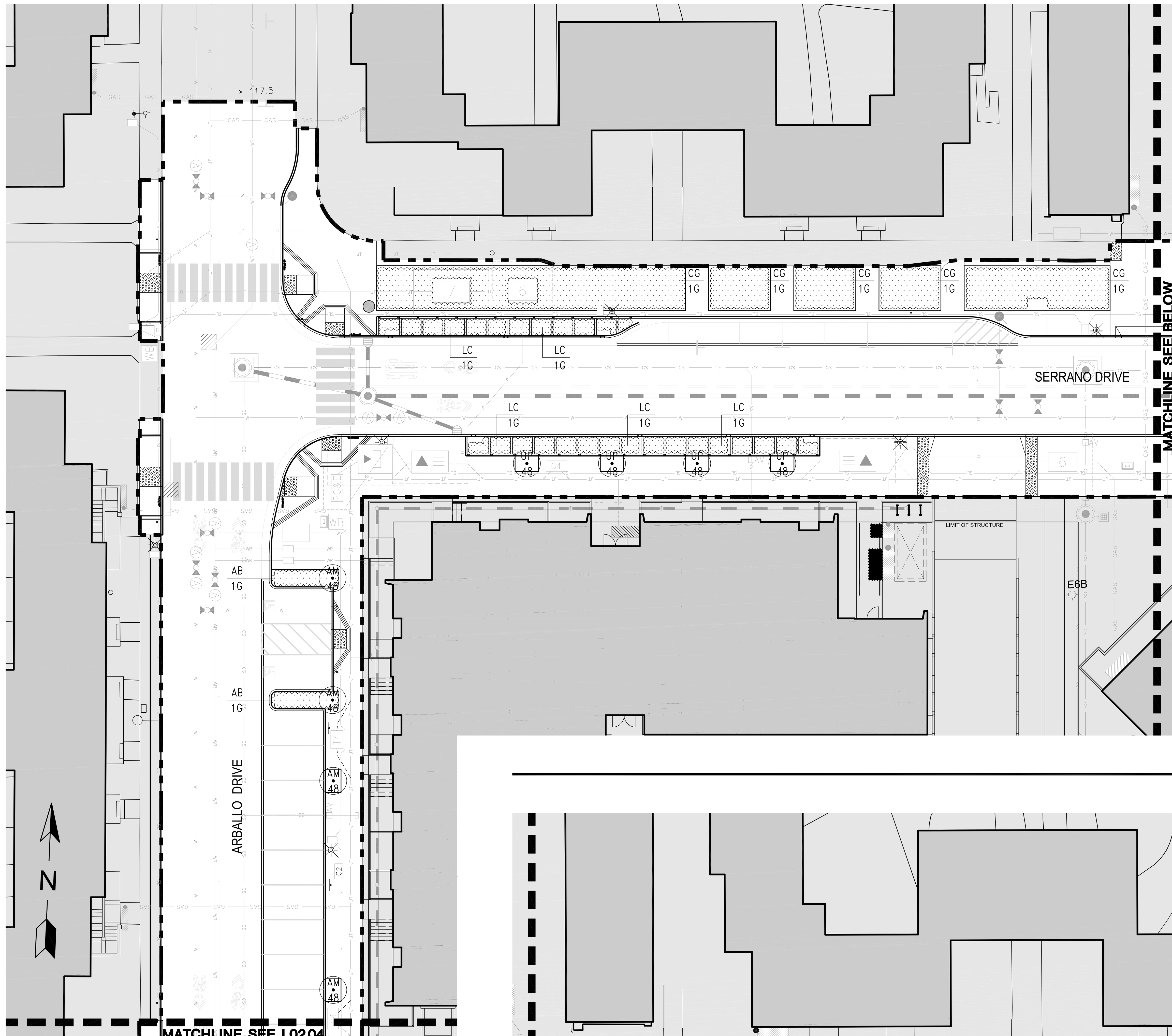

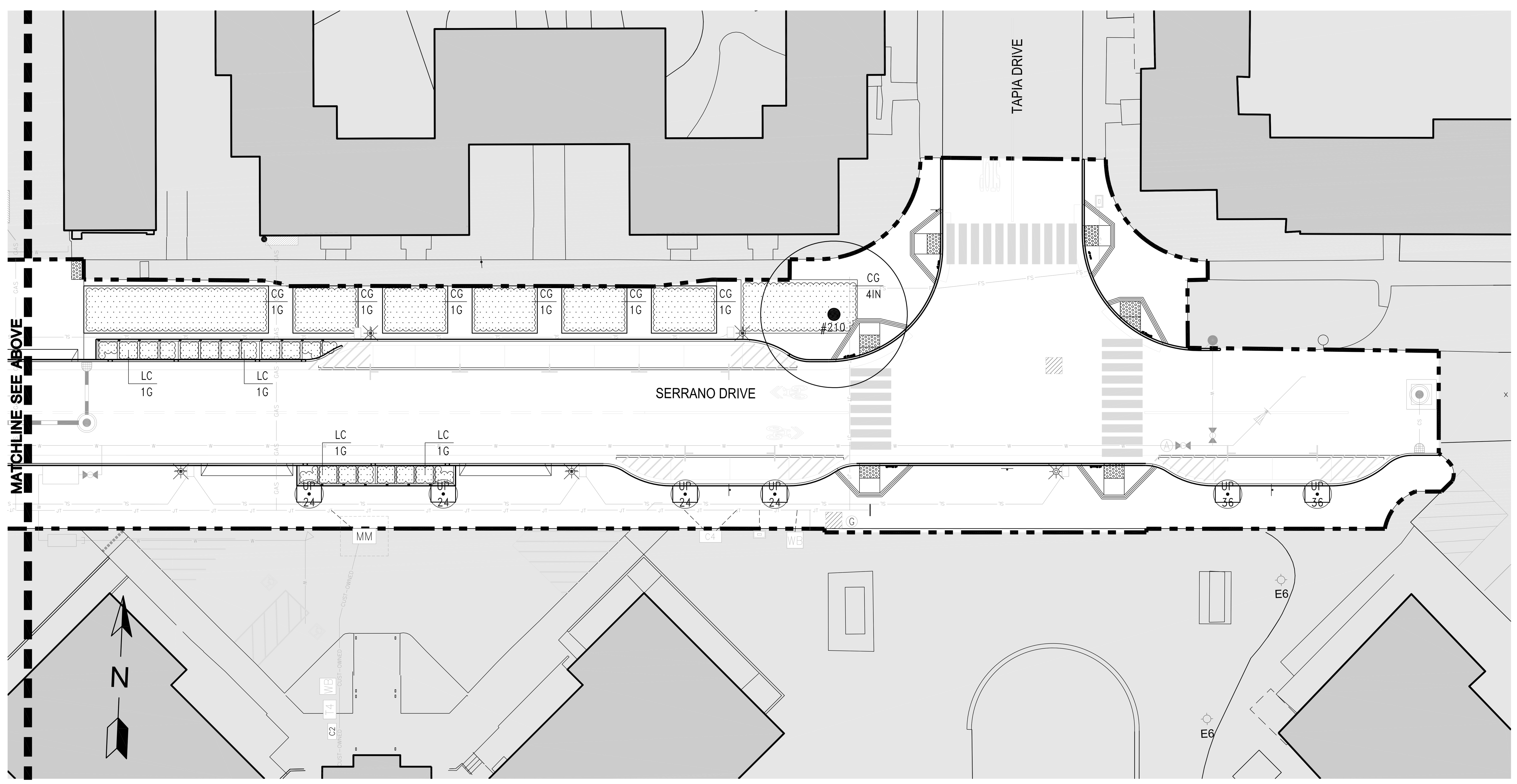

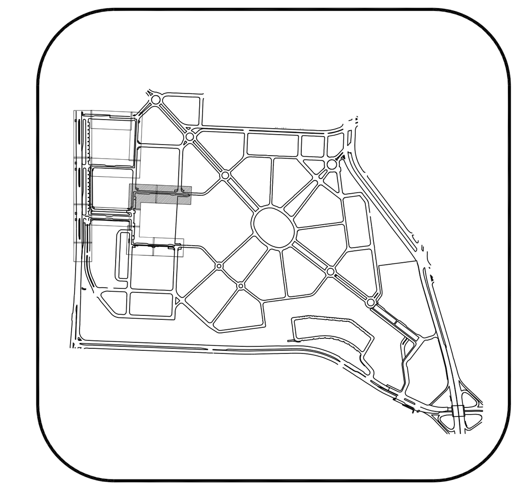

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GRAPHIC SCALE

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REGISTERED LANDSCAPE ARCHITECT · DOUGLAS ROSS FINDLAY · No. 3283 · Signature · DATE BELOW · Date · STATE OF CALIFORNIA · EXP. 06/30/2018

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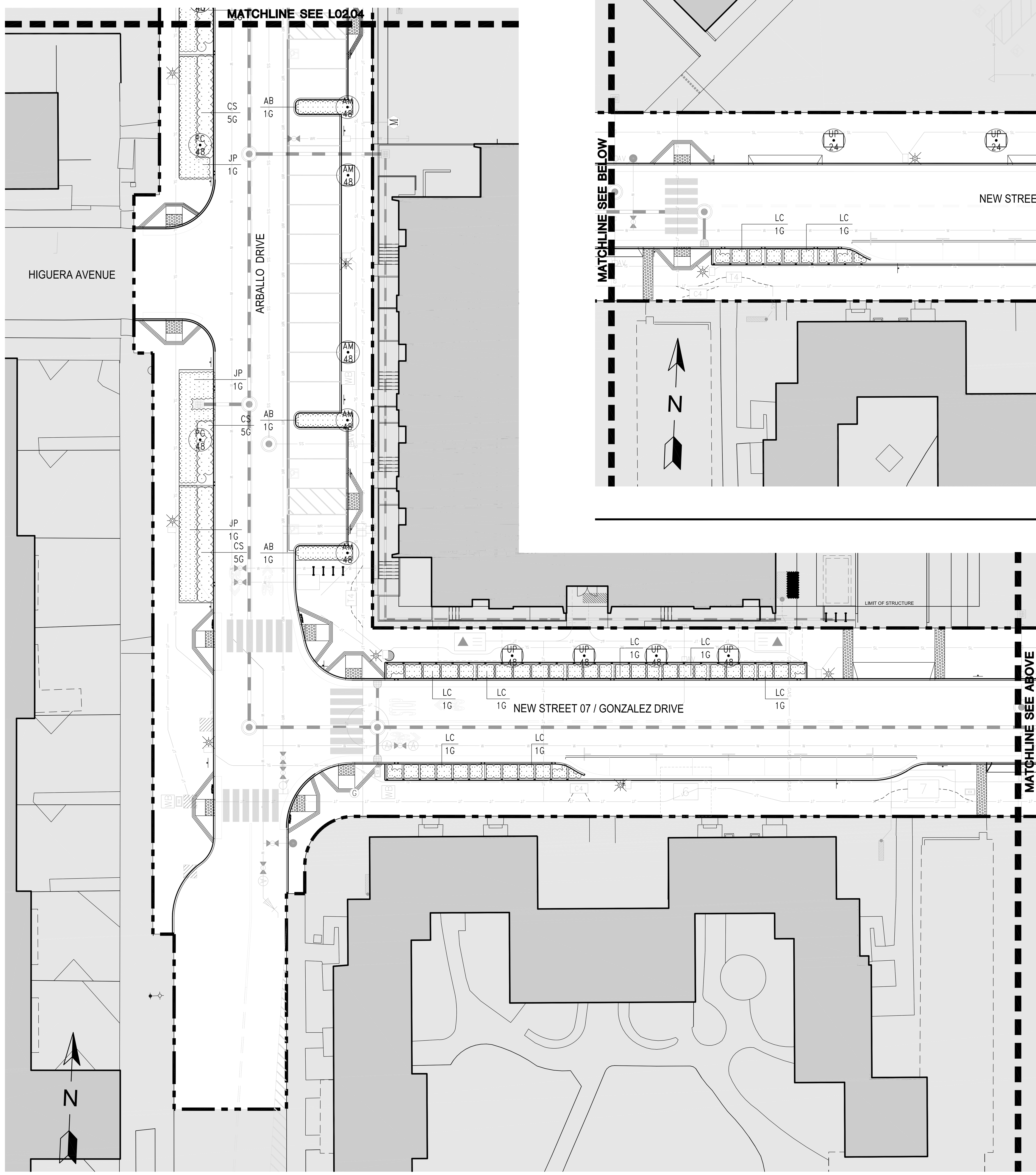

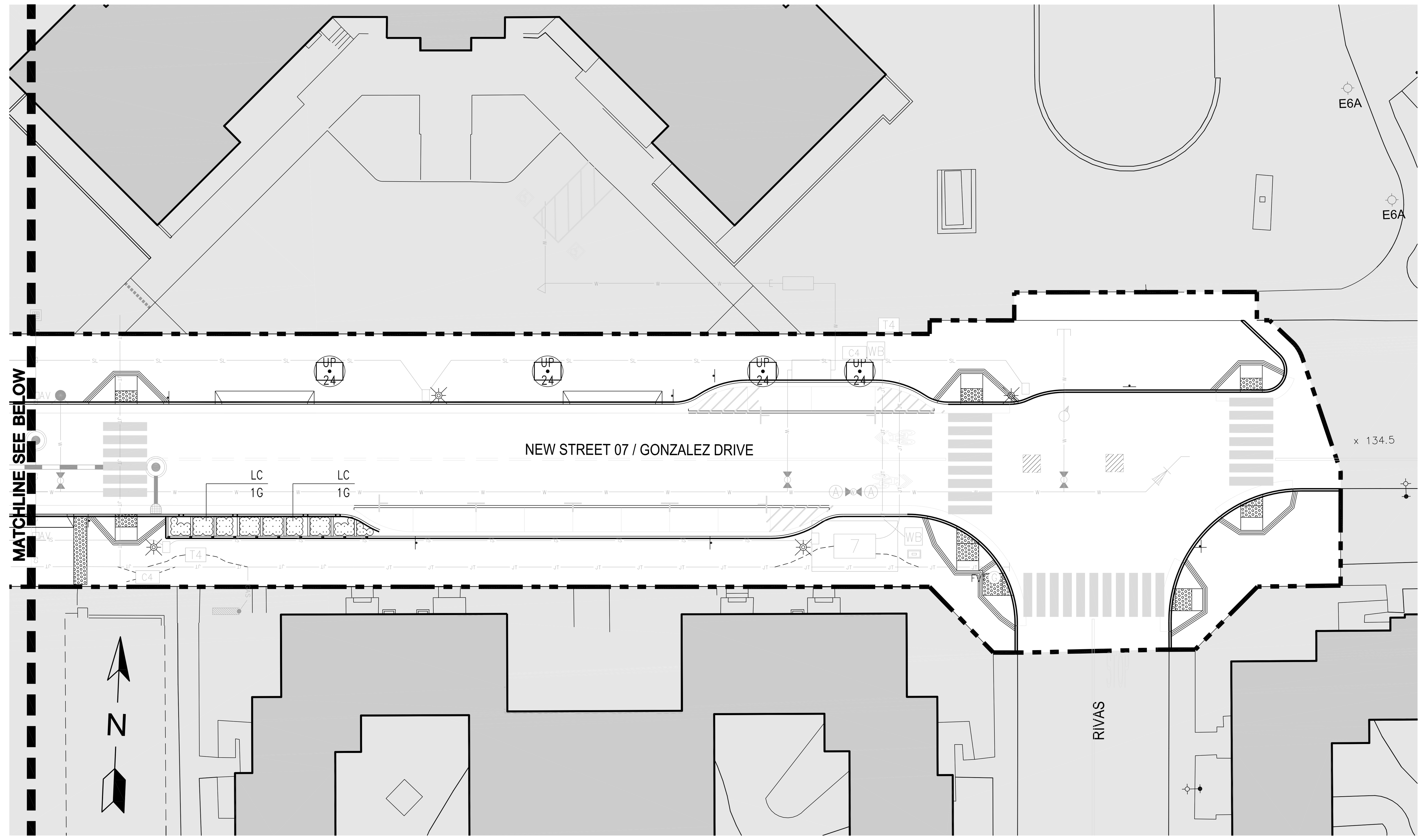

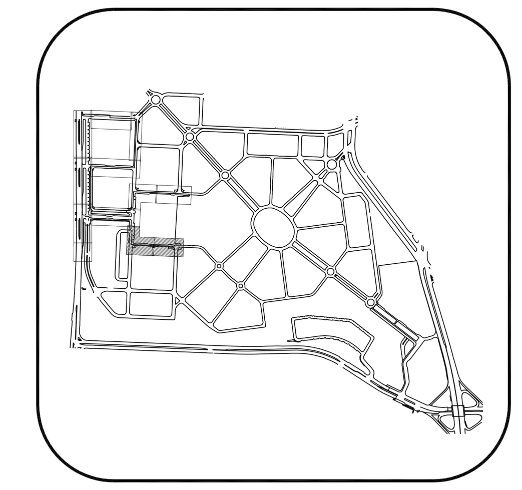

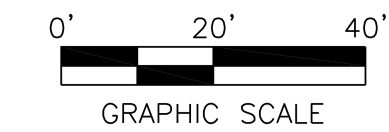

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L02.06

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IRRIGATION SYSTEM LEGEND

	IRRIGATION WATER METER-1.5"	-BY CIVIL SECTION OF CONTRACT	
	IRRIGATION BACKFLOW PREVENTION DEVICE	-BY CIVIL SECTION OF CONTRACT	
	GATE VALVE	-NIBCO-T113-IRR-LINE SIZE	
	MASTER CONTROL VALVE	-SUPERIOR-3100-2"	
	FLOW SENSOR	-BASELINE-BL-PFS-100	
	FERTIGATION UNIT	-EZ-FLO-XXX	
	ELECTRIC CONTROLLER	-BASELINE-BL-1000/P/WL/BL-BMW2-1/BL-BMW2-MAA-1	
	MOISTURE SENSOR	-BASELINE-BL-5315B	
	REMOTE CONTROL VALVE	-RAINBIRD-EFB-CP SERIES	
	QUICK COUPLING VALVE	-RAINBIRD-44-NP	
	DRIP ZONE KIT	-RAINBIRD-XCZ-100-PRB-COM	
	DRIP FLUSH VALVE	-SEE DETAIL	
	BUBBLER	-RAINBIRD-RWS-B-C-1402-RWS-SOCK	
	IRRIGATION SUPPLYLINE	-SCHEDULE 40 GALVANIZED STEEL PIPE & FITTINGS	-18" COVER
	IRRIGATION LATERAL LINE	-1120/SCHEDULE 40 PVC PIPE	-12" COVER
	SLEEVING	-1120/SCHEDULE 40 PVC PIPE	-24" COVER
	ELECTRICAL CONDUIT	-1120/SCHEDULE 40 ELECTRICAL CONDUIT	-24" COVER
	SUBSURFACE DRIPLINE	-NETAFIM-TLCV-6-12	-4" COVER

ALL LATERAL LINE PIPING SHALL BE PURPLE COLORED PVC. PROVIDE R/W LABELING FOR SUPPLYLINE.

sta	CONTROLLER STATION NUMBER
gpm	GALLONS PER MINUTE THROUGH VALVE
size	CONTROL VALVE SIZE

SLEEVING SIZING SCHEDULE

PIPE SIZE	SLEEVE SIZE
3/4"	2"
1"	2 1/2"
1 1/4"	2 1/2"
1 1/2"	3"
2"	4"
2 1/2"	4"
3"	6"
4"	8"

IRRIGATION SYSTEM NOTES

1. IRRIGATION SYSTEM IS DESIGNED FOR A MAXIMUM OF 60 G.P.M. AT 60 P.S.I. STATIC PRESSURE. VERIFY PRESSURE OF 60 P.S.I. AT THE POINT OF CONNECTION PRIOR TO INSTALLATION OF THE IRRIGATION SYSTEM. NOTIFY OWNERS REPRESENTATIVE OF ANY DISCREPANCIES IN PRESSURE.
2. NOTIFY OWNERS REPRESENTATIVE SIX (6) DAYS PRIOR TO INSTALLATION FOR A PRE-INSTALLATION CONFERENCE AND FIELD REVIEW COORDINATION FOR TRENCH DEPTHS, ASSEMBLY REVIEW, PRESSURE TESTS, COVERAGE TESTS, PRE- MAINTENANCE AND FINAL REVIEWS. A CONTINUITY TEST WILL BE REQUIRED FOR CONTROL WIRE STUBOUTS. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNERS REPRESENTATIVE.
3. CONNECT TO DISCHARGE SIDE OF IRRIGATION BACKFLOW REVENTION DEVICE PROVIDED FOR BY CIVIL SECTION OF CONTRACT.
4. INSTALL CONTROLLER WHERE INDICATED. EXACT LOCATION OF CONTROLLER TO BE DETERMINED AT JOBSITE BY OWNERS REPRESENTATIVE. 120 VOLT ELECTRICAL SUPPLY IS PROVIDED FOR IN IMMEDIATE VICINITY BY ELECTRICAL SECTION OF CONTRACT. MAKE FINAL 120 VOLT ELECTRICAL CONNECTION TO CONTROLLER. USE THIN WALL METAL CONDUIT ABOVE GRADE. PROGRAM CONTROLLERS TO NOT EXCEED MAXIMUM FLOW RATE STATED IN NOTE NO. 1. INSTALL PER MANUFACTURERS SPECIFICATIONS. CONTROLLER SHALL BE PROPERLY GROUNDED PER ARTICLE 250 OF THE NATIONAL ELECTRIC CODE, LOCAL REGULATIONS, AND MANUFACTURERS GROUNDING REQUIREMENTS. INSTALL AS DETAILED. SEAL ALL CONDUIT HOLES WITH SILICONE OR EQUAL. PROGRAM CONTROLLER TO IRRIGATE USING MULTIPLE REPEAT CYCLES OF SHORT DURATIONS. CARE SHALL BE TAKEN TO PREVENT RUNOFF OF WATER AND SLOPE/SOIL EROSION DUE TO PROLONGED APPLICATIONS OF WATER.
5. INSTALL MASTER CONTROL VALVE, FLOW SENSOR, FERTIGATION SYSTEM, REMOTE CONTROL VALVES, QUICK COUPLING VALVES, BALL VALVES, DRIP ZONE KITS, AND FLUSH VALVES AS DETAILED. INSTALL R.C.V. ID TAGS MANUFACTURED BY T. CHRISTY ENT. STANDARD SIZE, 1 1/8" HOT STAMPED BLACK LETTERS ON YELLOW BACKGROUND ON SOLENOID WIRES. LETTERS TO CONFORM TO CONTROLLER/STATION NUMBER.
6. ALL HEADS SHALL HAVE RISER ASSEMBLIES AS DETAILED. INSTALL CHECK VALVES AS SHOWN ON BUBBLER RISER ASSEMBLY DETAILS WHERE LOW HEAD DRAINAGE OCCURS. NOTE ESPECIALLY TO AVOID DRAINAGE AT SIDEWALKS AND OTHER POINTS WHERE PUDDLING WILL CAUSE DAMAGE OR HAZARD. ADJUST ALL BUBBLERS AT TREES AS REQUIRED FOR DEEP ROOT WATERING.
7. ALL PIPE AND WIRING UNDER PAVEMENT SHALL BE INSTALLED AT A TWENTY FOUR INCH (24") DEPTH BELOW GRADE. ALL PIPE AND WIRING UNDER PAVEMENT SHALL BE INSTALLED IN PVC SCHEDULE 40 SLEEVING AND ELECTRICAL CONDUIT. SLEEVING AND ELECTRICAL CONDUIT SHALL EXTEND SIX INCHES (6") BEYOND EDGE OF PAVEMENT OR CURB. INSTALL SAND FOR BACKFILL IN VEHICULAR PAVEMENT AREAS TO 6" COVER ABOVE PIPE. SURROUND PIPE WITH SAND IN AREAS WHERE ROCKY TERRAIN IS ENCOUNTERED.
8. PRIOR TO INSTALLATION OF SUBSURFACE DRIP SYSTEMS ENSURE THAT THE SOIL IS ROTOTILLED TO A UNIFORM DEPTH. REVIEW DRIP COMPONENTS, EQUIPMENT AND INSTALLATION TECHNIQUES WITH MANUFACTURER'S REPRESENTATIVE. SPECIAL ATTENTION SHALL BE PAID WHEN COORDINATING INSTALLATION OF PLANT MATERIALS AND DRIP SYSTEM. AVOID CONFLICTS BETWEEN INSTALLATION OF SUBSURFACE DRIP AND PLANT LOCATIONS. IF CONFLICTS IN INSTALLATION LOCATIONS OCCUR, THEN PLANT INSTALLATION LOCATIONS SHALL HAVE PRIORITY.
9. SUBSURFACE DRIPLINE SHOWN IS DIAGRAMMATIC ONLY. FOLLOW SPACING REQUIREMENTS INDICATED ON INSTALLATION DETAIL AND MANUFACTURERS SPECIFICATIONS.
10. PROVIDE LITERATURE OF ALL DRIP SYSTEM COMPONENTS INCLUDING ANY PREVENTATIVE MAINTENANCE AND TROUBLE SHOOTING GUIDES TO OWNER AND REVIEW MAINTENANCE PROCEDURES INCLUDING:
    CLEANING FILTER IN WYE STRAINERS
    REPAIRING BREAKS IN PIPES AND RISERS
    ADDING EMITTERS OR TUBING FOR EXPANSION/INSTALLING PLUGS
11. MAINTENANCE CONSIDERATIONS:
    FILTER CLEANING AND FLUSHING SHOULD START OUT AS A MONTHLY PROCEDURE(MORE FREQUENT FOR DIRTY WATER SITUATIONS) AND ADJUST TIMING AS APPROPRIATE. VISUALLY CHECK FOR INDICATIONS OF PIPE BREAKS OR CLOGGED EMITTERS ON A REGULAR BASIS. DURING WINTER MONTHS, WHEN THE SYSTEM IS NOT IN USE, THE EMITTERLINE SYSTEM(S) SHOULD BE RUN ABOUT EVERY 2 WEEKS FOR 2-4 MINUTE MINIMUM RUNTIME.
12. IRRIGATION PIPING IS DIAGRAMMATIC ONLY. PROVIDE LATERAL/MAINLINES AT BACK OF TREE WELL, WHERE FEASIBLE, IN LIEU OF ROADWAYS OR UNDER CURB AND GUTTER.
13. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING THIS PROJECT.

ARTHUR LANDSCAPE IRRIGATION CONSULTING
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Professional Member - ASIC
Post Office Box 3490
Livermore, Calif. 94551
T 925.518.3956
E ray@aliconsulting.net

NOTES:

1. REFER TO SHEETS L00.01-L00.02 FOR GENERAL NOTES AND LEGENDS

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IRRIGATION NOTES AND LEGEND
SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

PROFESSIONAL IRRIGATION CONSULTANT — American Society of Irrigation Consultants — RAY ARTHUR
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No.	Revisions

Date: 05/01/17
Scale: NO SCALE
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Approved: LEAD
Job No: MAX 1401

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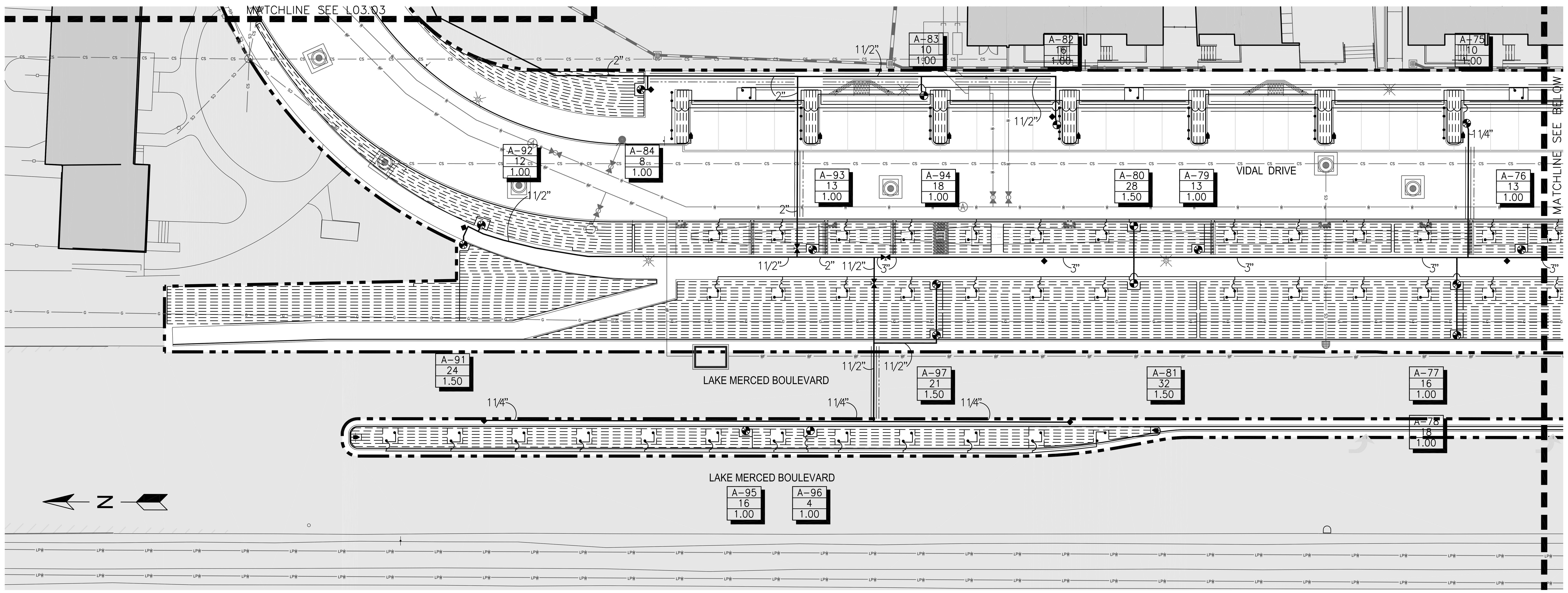

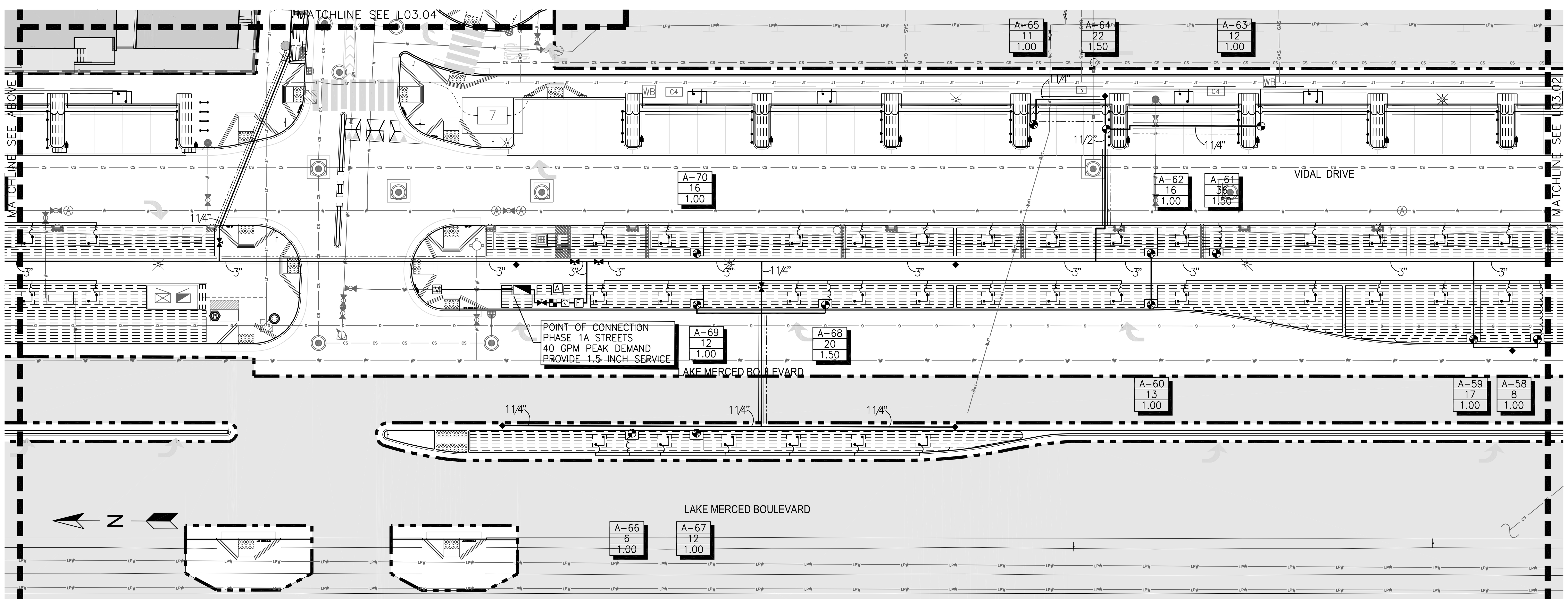

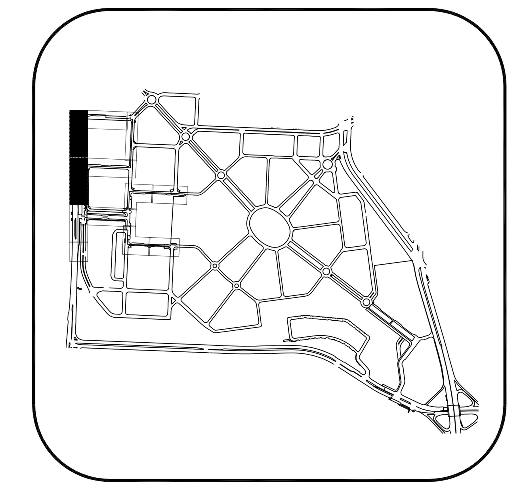

0' 20' 40'

GRAPHIC SCALE

IRRIGATION SYSTEM LEGEND

IRRIGATION WATER METER–1.5"
IRRIGATION BACKFLOW PREVENTION DEVICE

GATE VALVE
MASTER CONTROL VALVE
FLOW SENSOR
FERTIGATION UNIT
ELECTRIC CONTROLLER
MOISTURE SENSOR

REMOTE CONTROL VALVE
QUICK COUPLING VALVE
DRIP ZONE KIT
DRIP FLUSH VALVE

BUBBLER

IRRIGATION SUPPLYLINE
IRRIGATION LATERAL LINE
SLEEVING
ELECTRICAL CONDUIT
SUBSURFACE DRIPLINE

A– gpm size
CONTROLLER STATION NUMBER
GALLONS PER MINUTE THROUGH VALVE
CONTROL VALVE SIZE

REFER TO SHEET L03.00 FOR FULL EQUIPMENT LEGEND

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PHASE 1A STREET IMPROVEMENT PLANS
IRRIGATION PLAN

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

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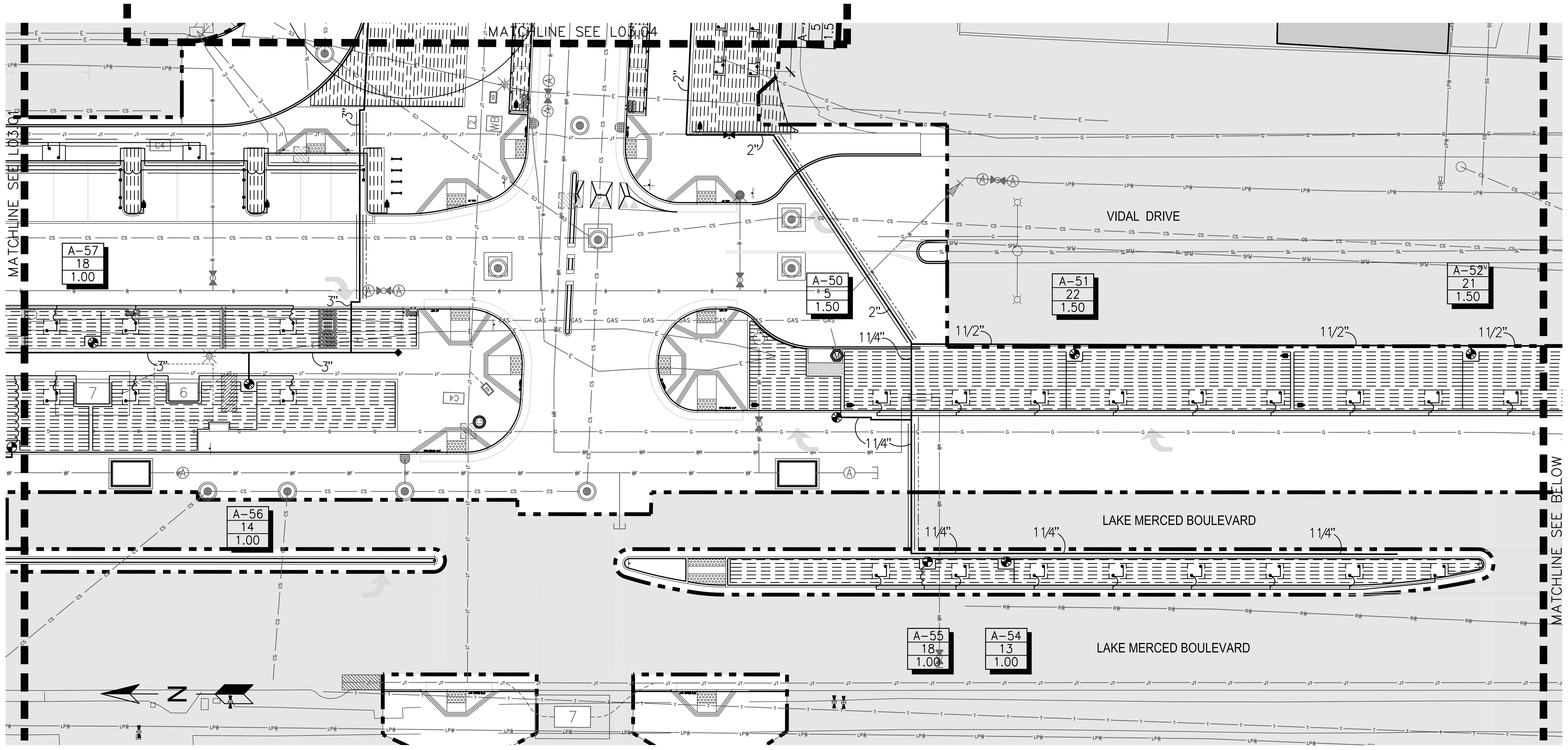

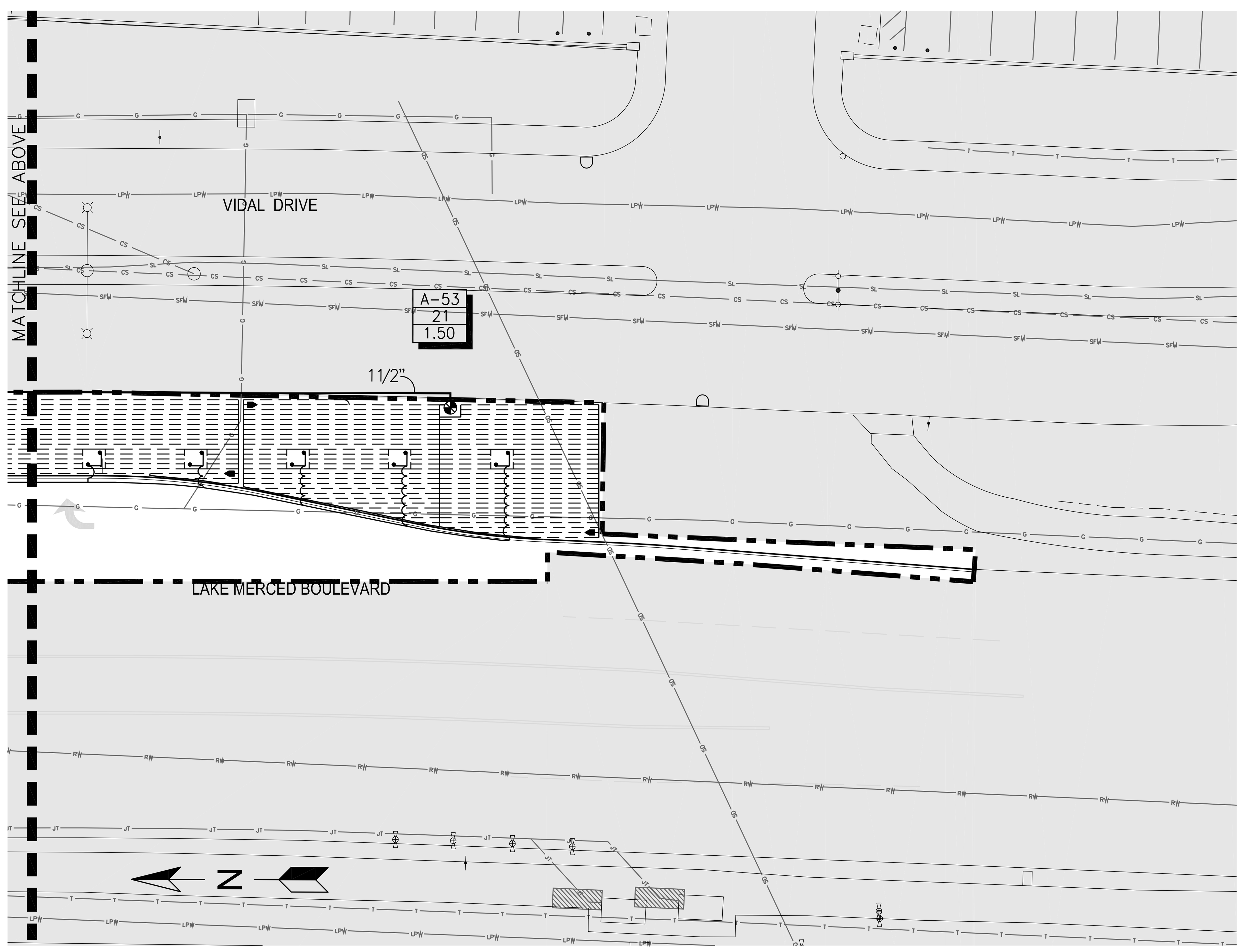

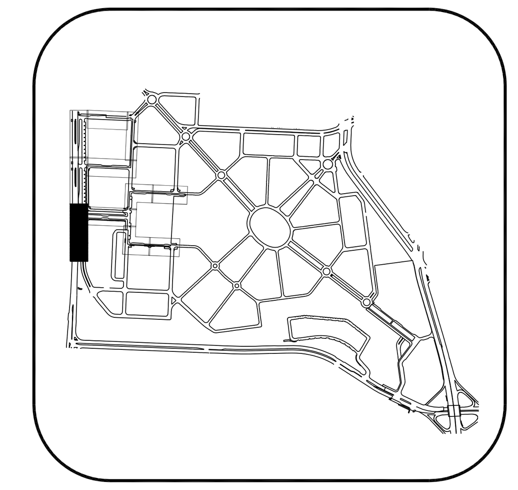

0' 20' 40'
GRAPHIC SCALE

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IRRIGATION PLAN
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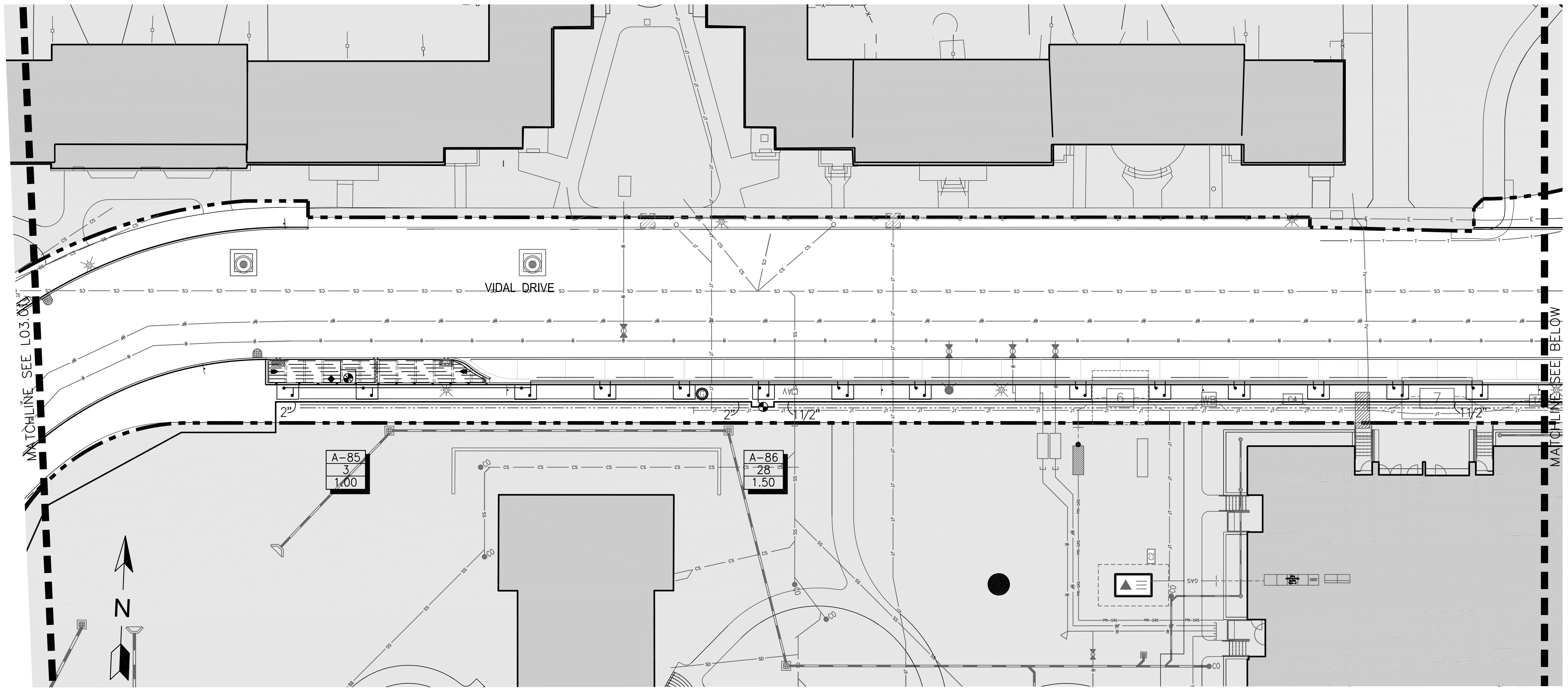

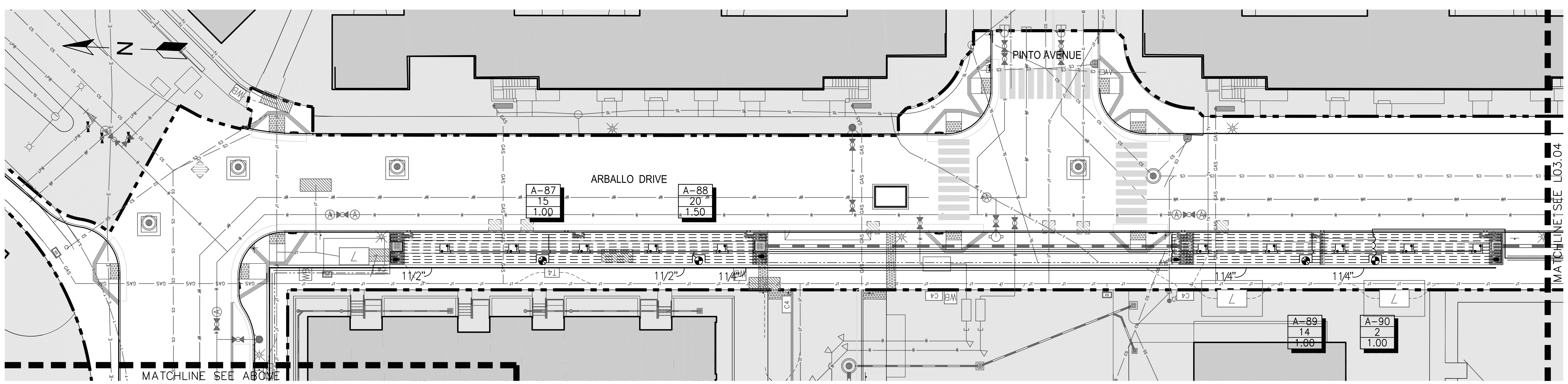

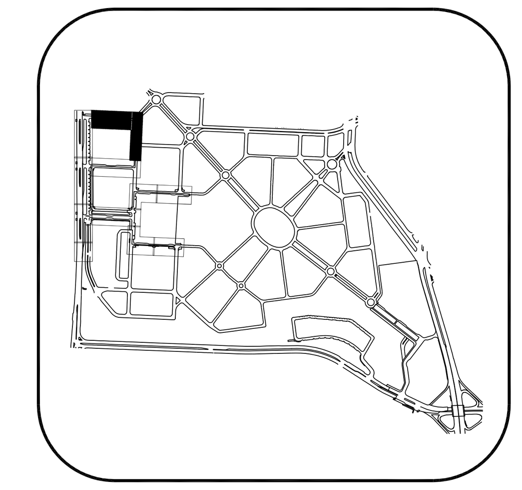

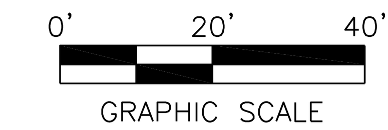

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NOTES:

1. REFER TO SHEETS L00.01-L00.02 FOR GENERAL NOTES AND LEGENDS

PWP LANDSCAPE ARCHITECTURE
739 Allston Way
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PARKMERCED

PHASE 1A STREET IMPROVEMENT PLANS

IRRIGATION PLAN

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

PROFESSIONAL IRRIGATION CONSULTANT — American Society of Irrigation Consultants — ASIC — RAY ARTHUR

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Date: 05/01/17
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Approved: LEAD
Job No: MAX 1401

Drawing Number:

L03.03

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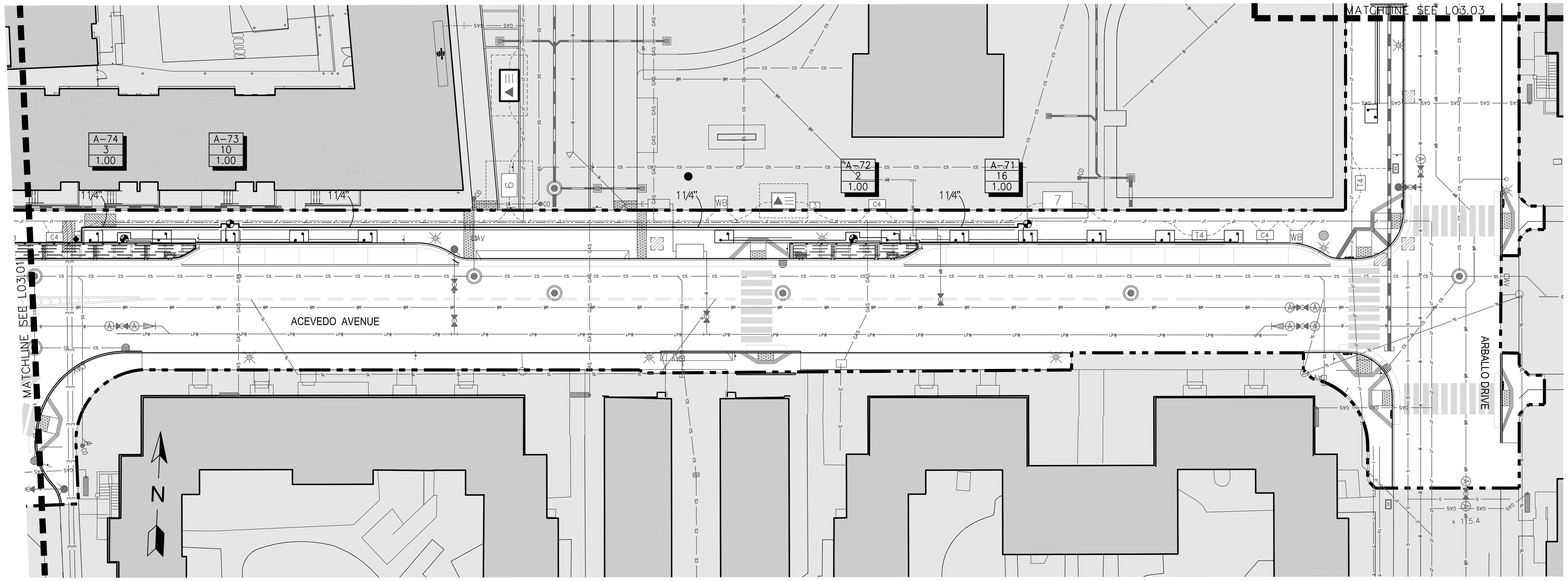

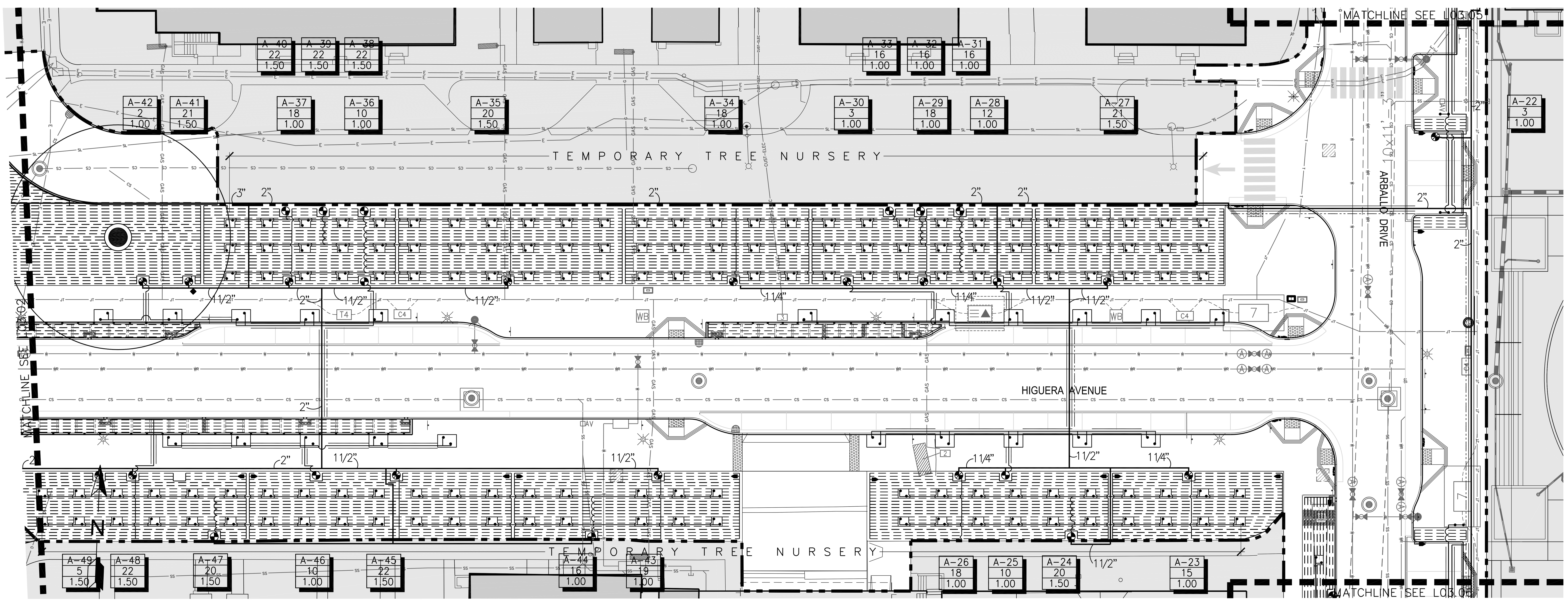

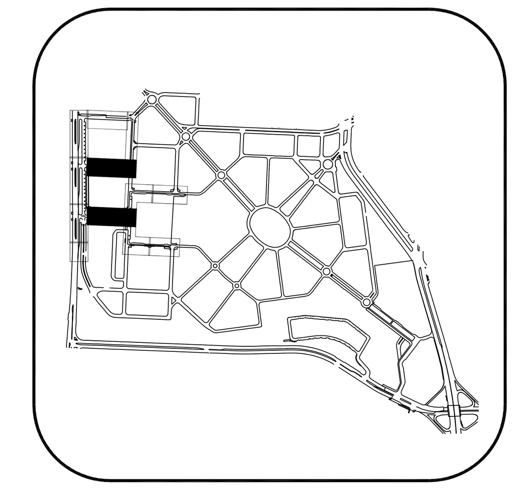

0' 20' 40'
GRAPHIC SCALE

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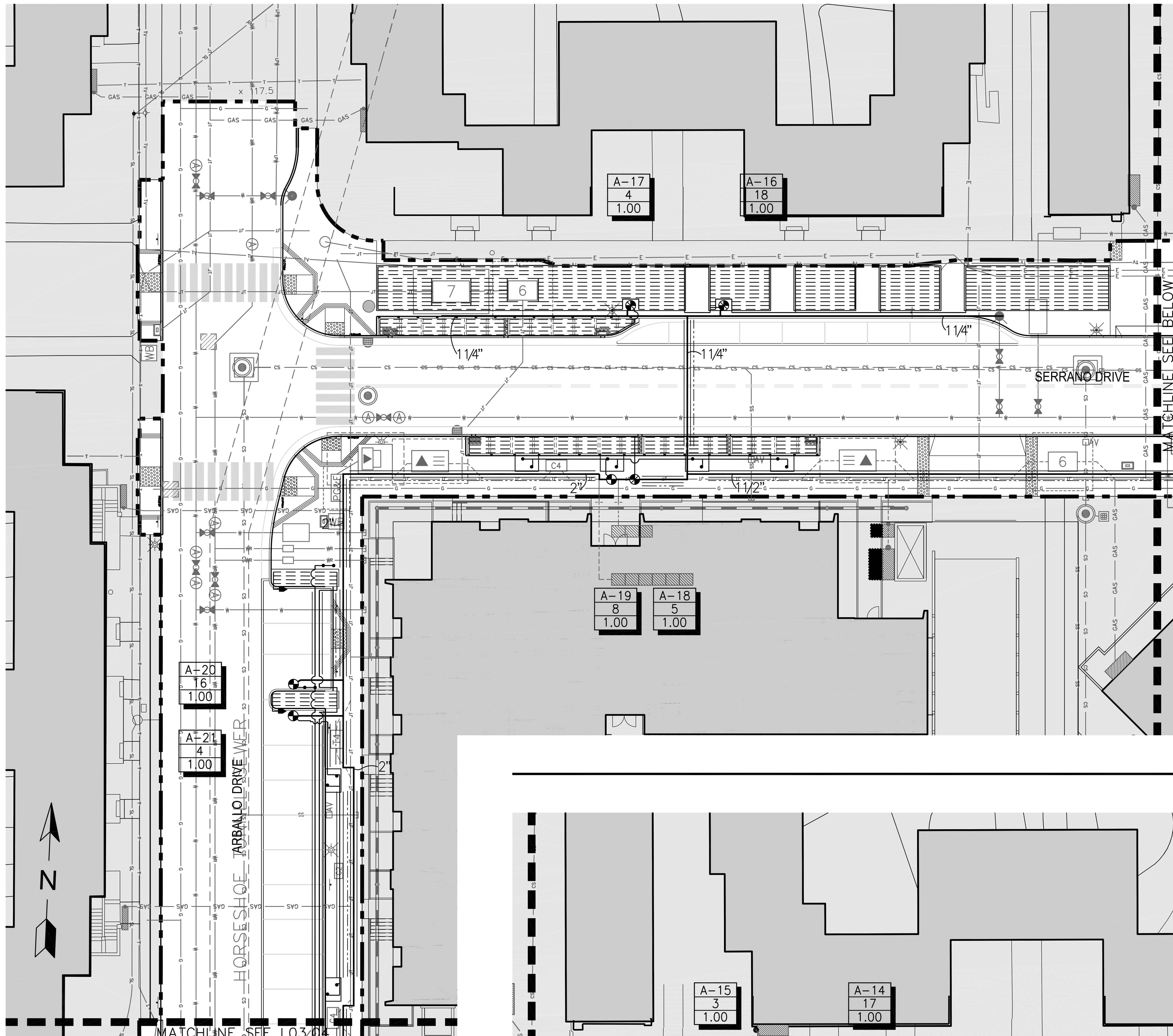

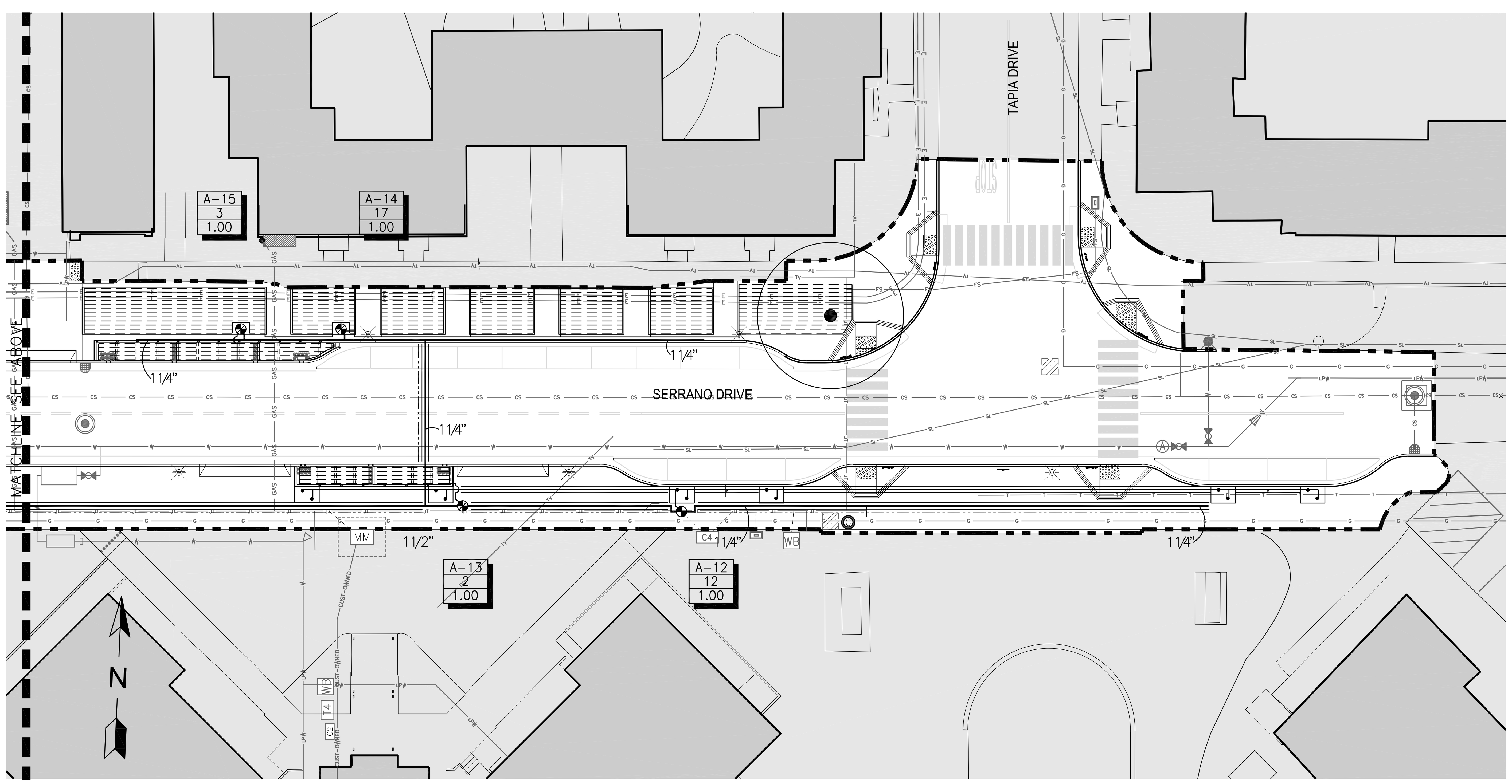

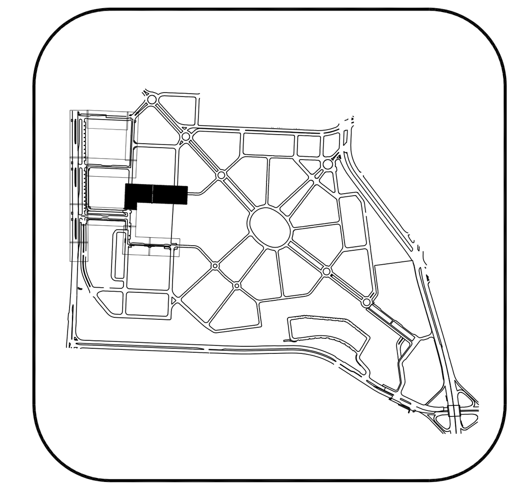

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GRAPHIC SCALE

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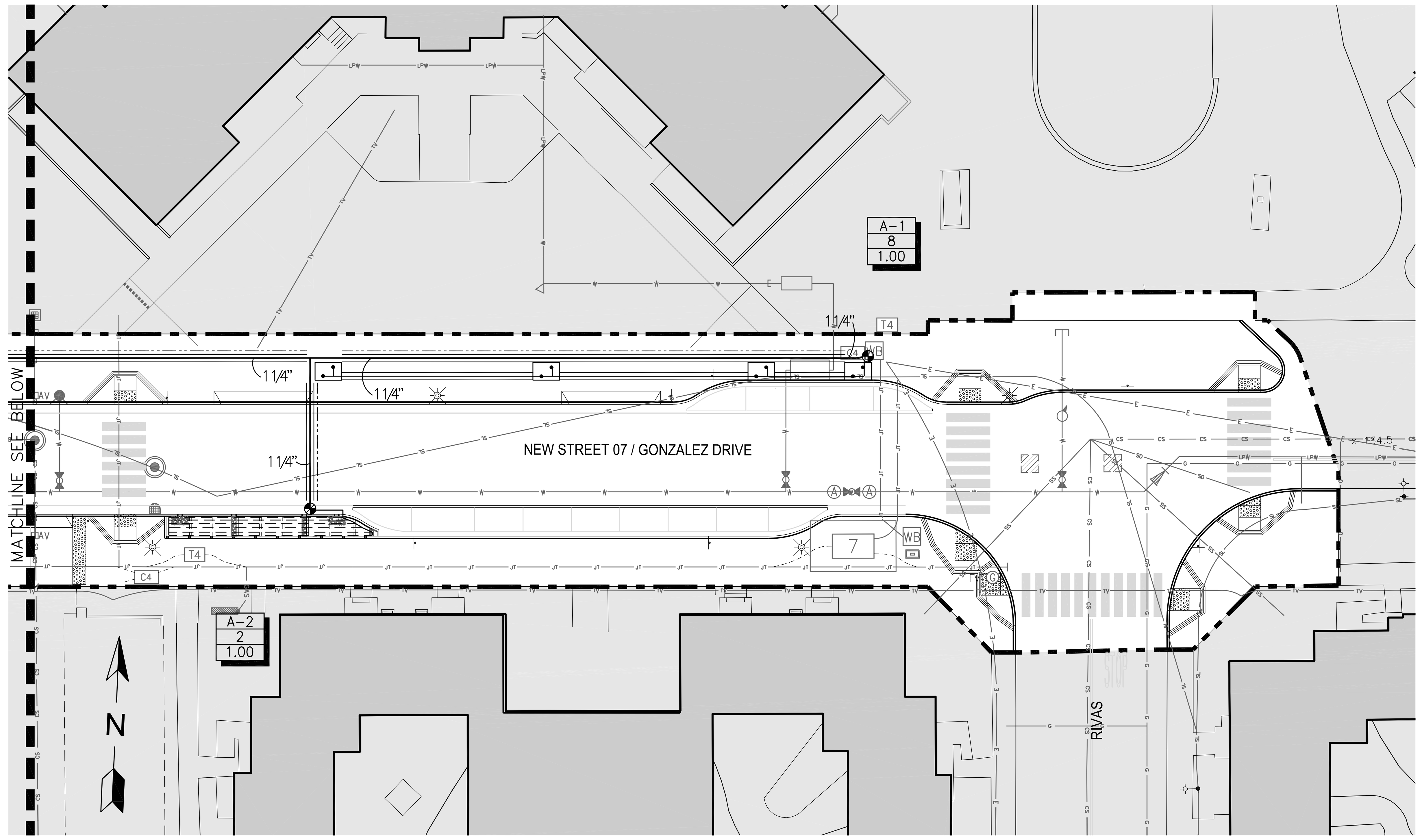

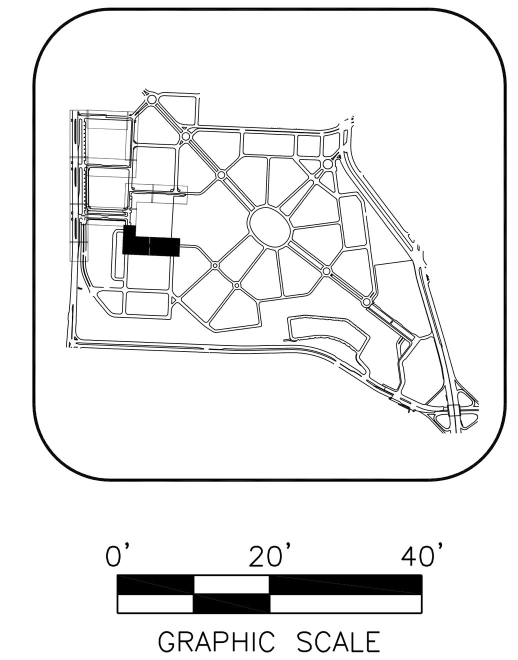

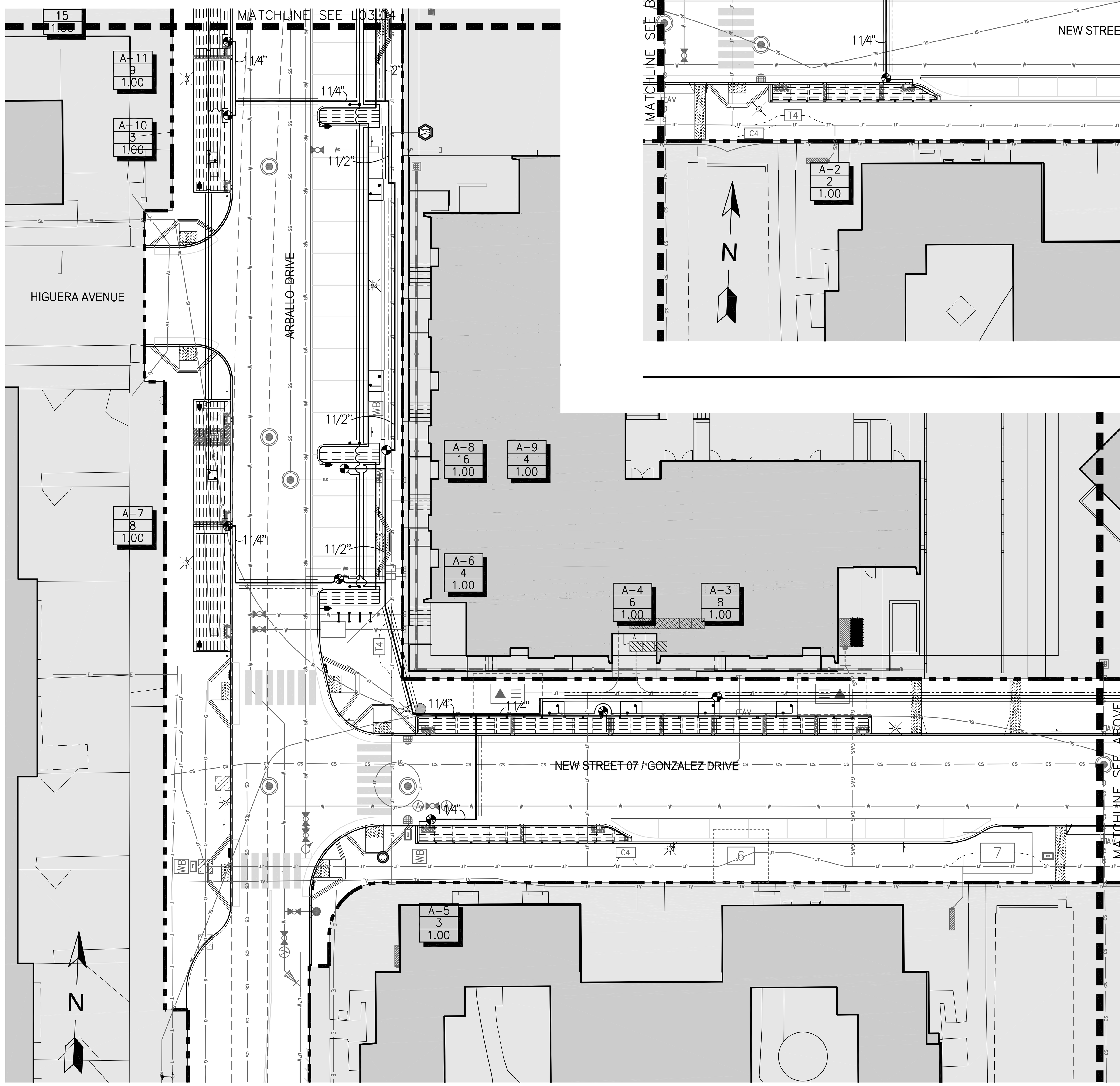

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Job No: MAX 1401

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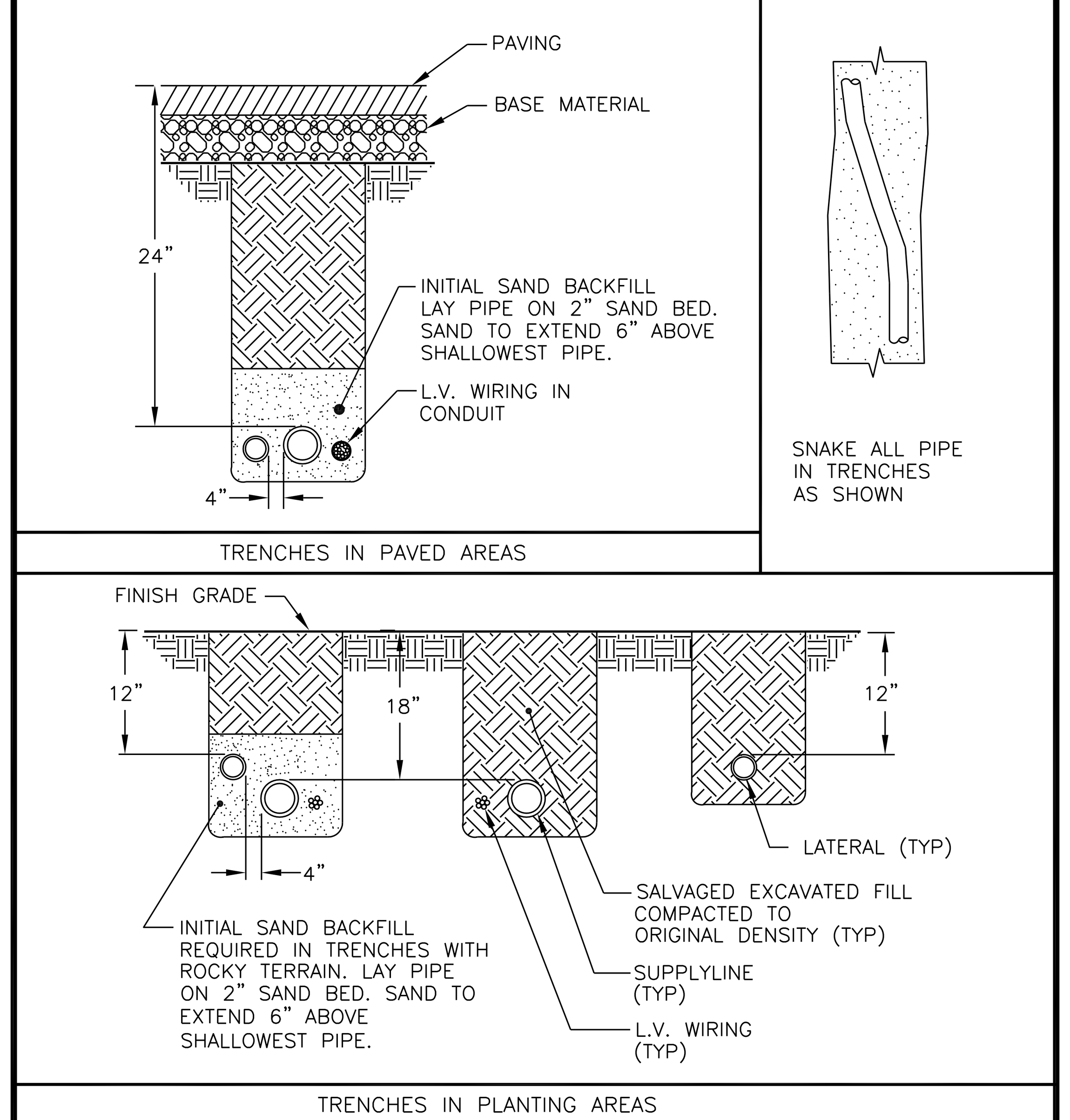
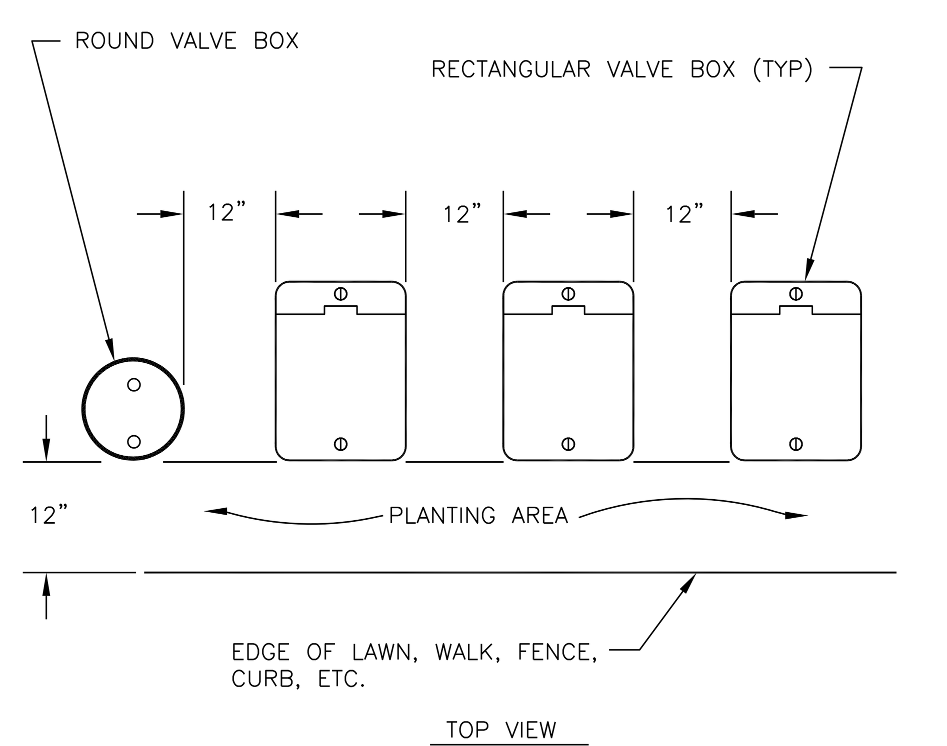


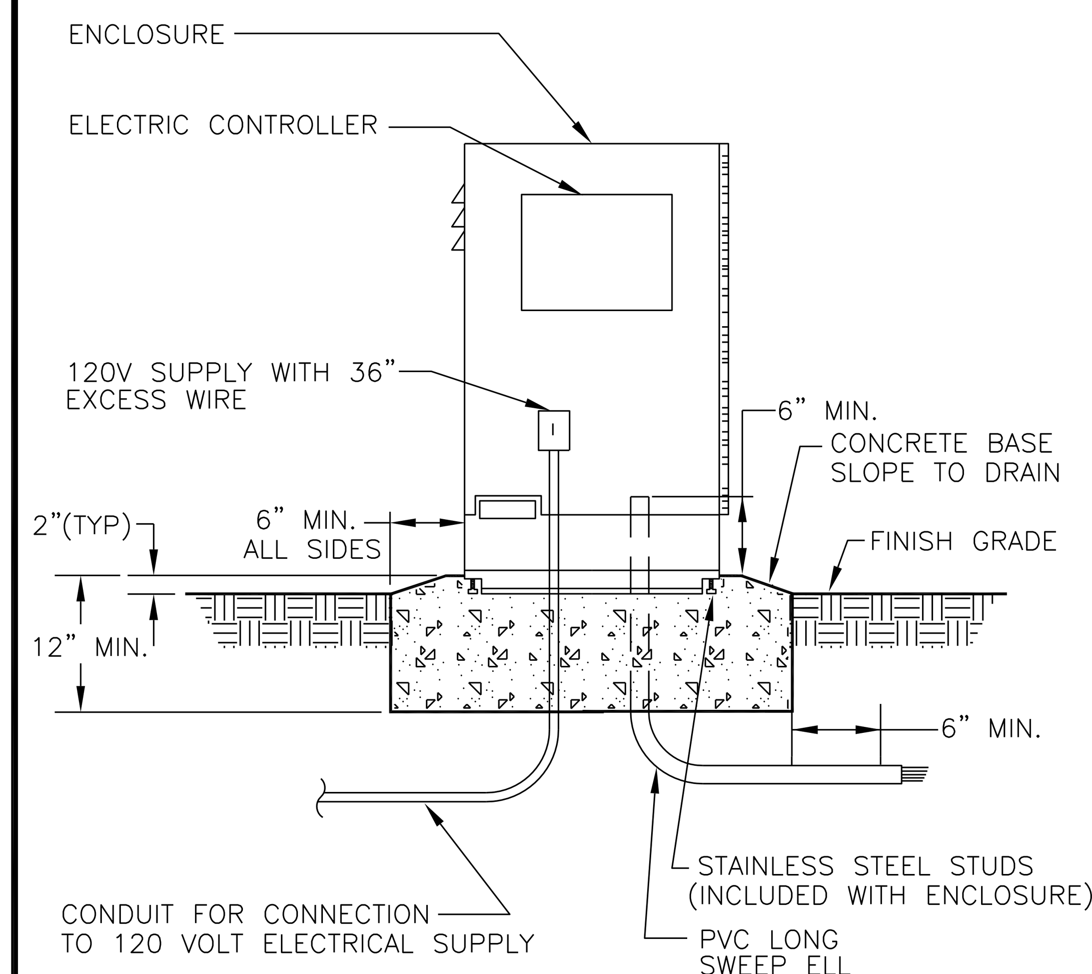
A TRENCHING DETAILS
NTS

NOTES:
1. CENTER BOXES OVER VALVES.
2. SET BOXES IN GROUND COVER/SHRUB AREA WHERE POSSIBLE.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.



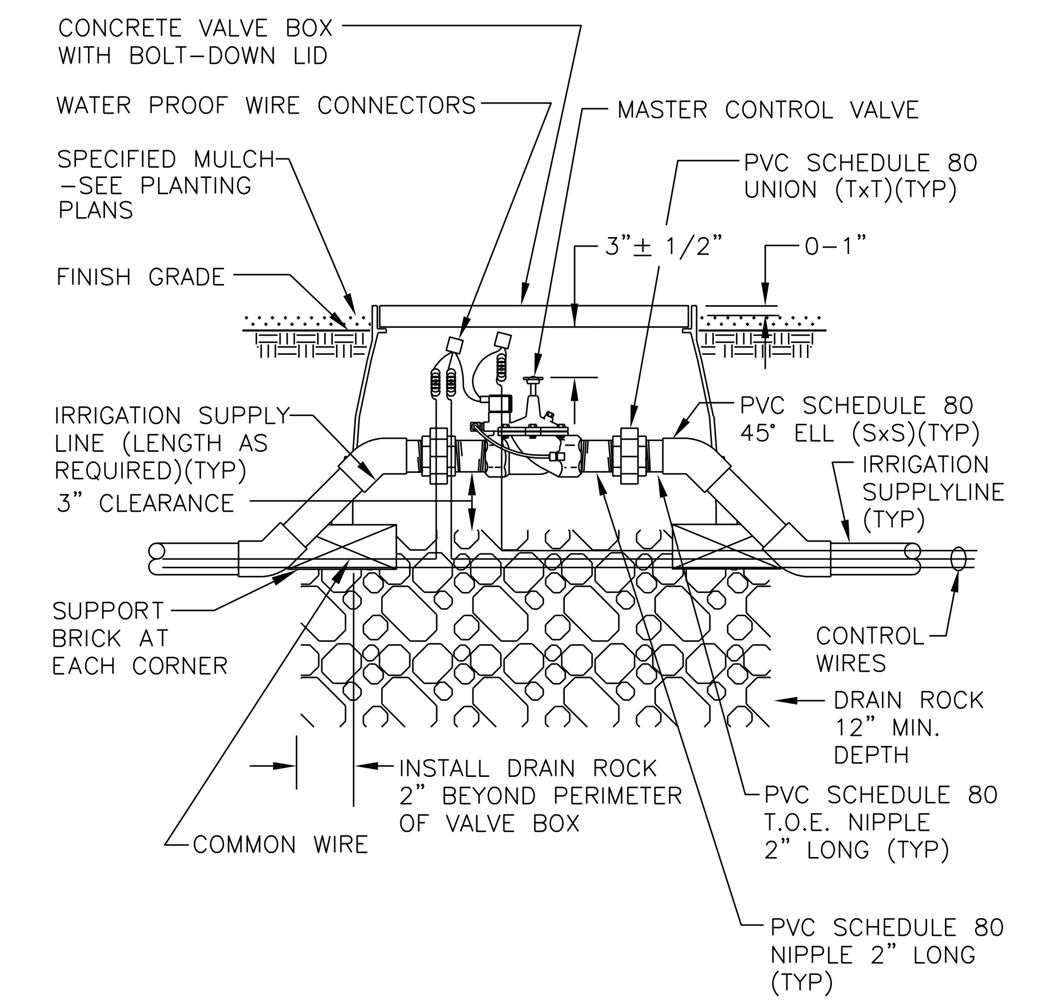
B VALVE BOX INSTALLATION DETAIL
NTS

NOTE: CONTROLLER SHALL BE PROPERLY GROUNDED PER ARTICLE 250 OF THE NATIONAL ELECTRIC CODE AND CONFORM TO LOCAL REGULATIONS.



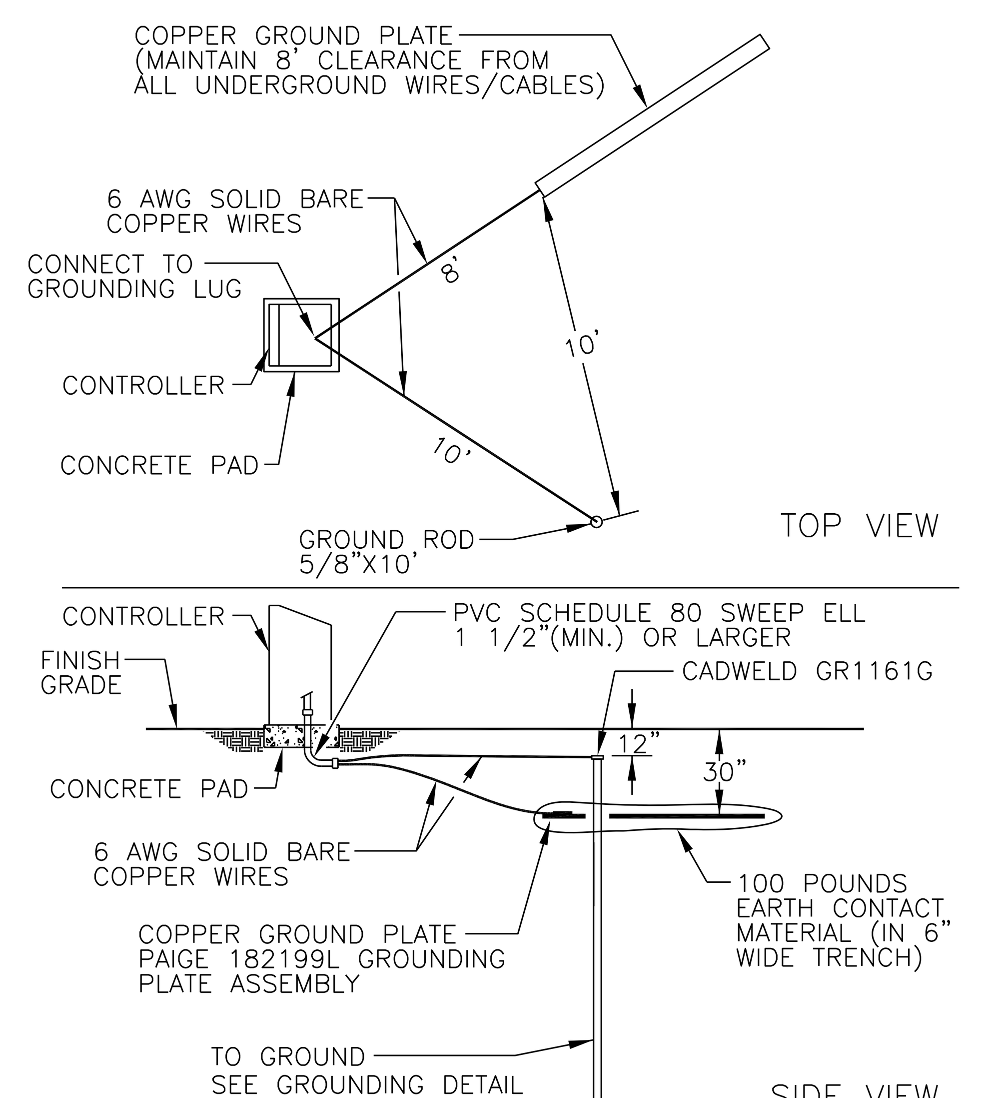
NOTE: CONSULT MANUFACTURERS MOUNTING PAD TEMPLATE FOR PROPER QUANTITY, PLACEMENT AND SIZE OF CONDUITS.

C PEDESTAL MOUNT CONTROLLER INSTALLATION DETAIL
NTS



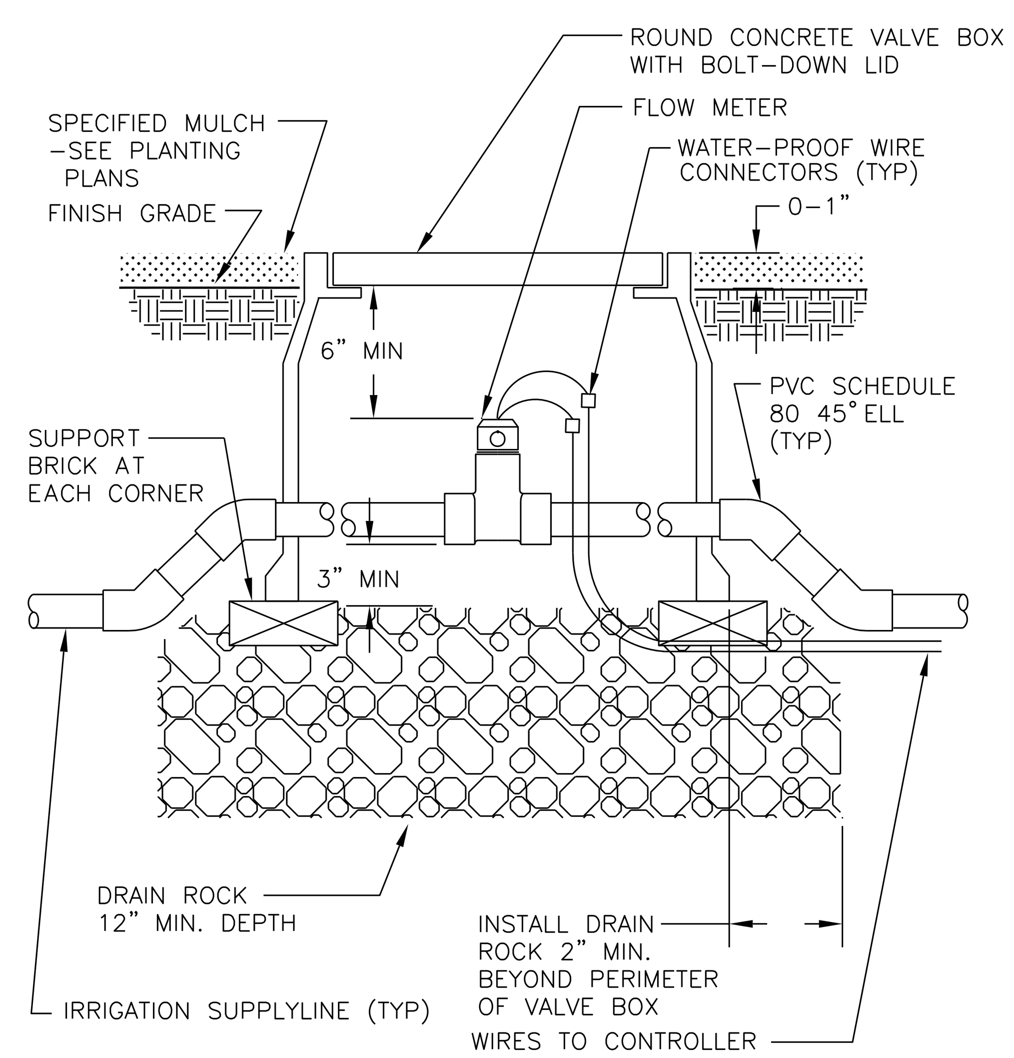
D MASTER CONTROL VALVE INSTALLATION DETAIL
NTS

NOTE:
1. GROUND PER NATIONAL ELECTRIC CODE ARTICLE 250.
2. SALTS, FERTILIZERS, AND OTHER CHEMICALS TO IMPROVE SOIL CONDUCTING WILL CORRODE COPPER ELECTRODES.
3. EARTH TO GROUND RESISTANCE TO BE 10 OHMS, INSTALL ADDITIONAL GROUNDING PLATES AS REQUIRED TO LOWER OHMS.



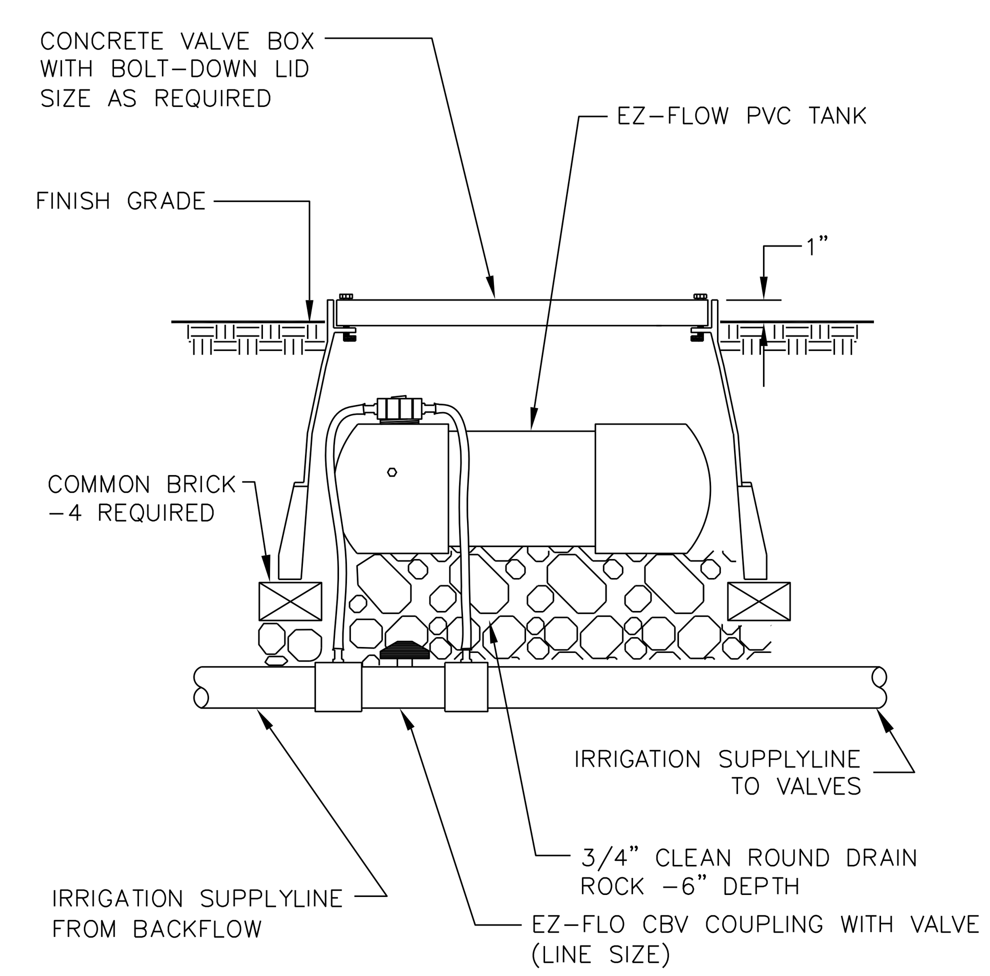
E EARTH GROUNDING METHODS DETAIL
NTS

NOTE: ALLOW 10 PIPE DIAMETERS UPSTREAM AND 5 PIPE DIAMETERS DOWNSTREAM FROM SENSOR OF STRAIGHT UNOBSTRUCTED PIPE TO ENSURE PROPER FLOW READING.



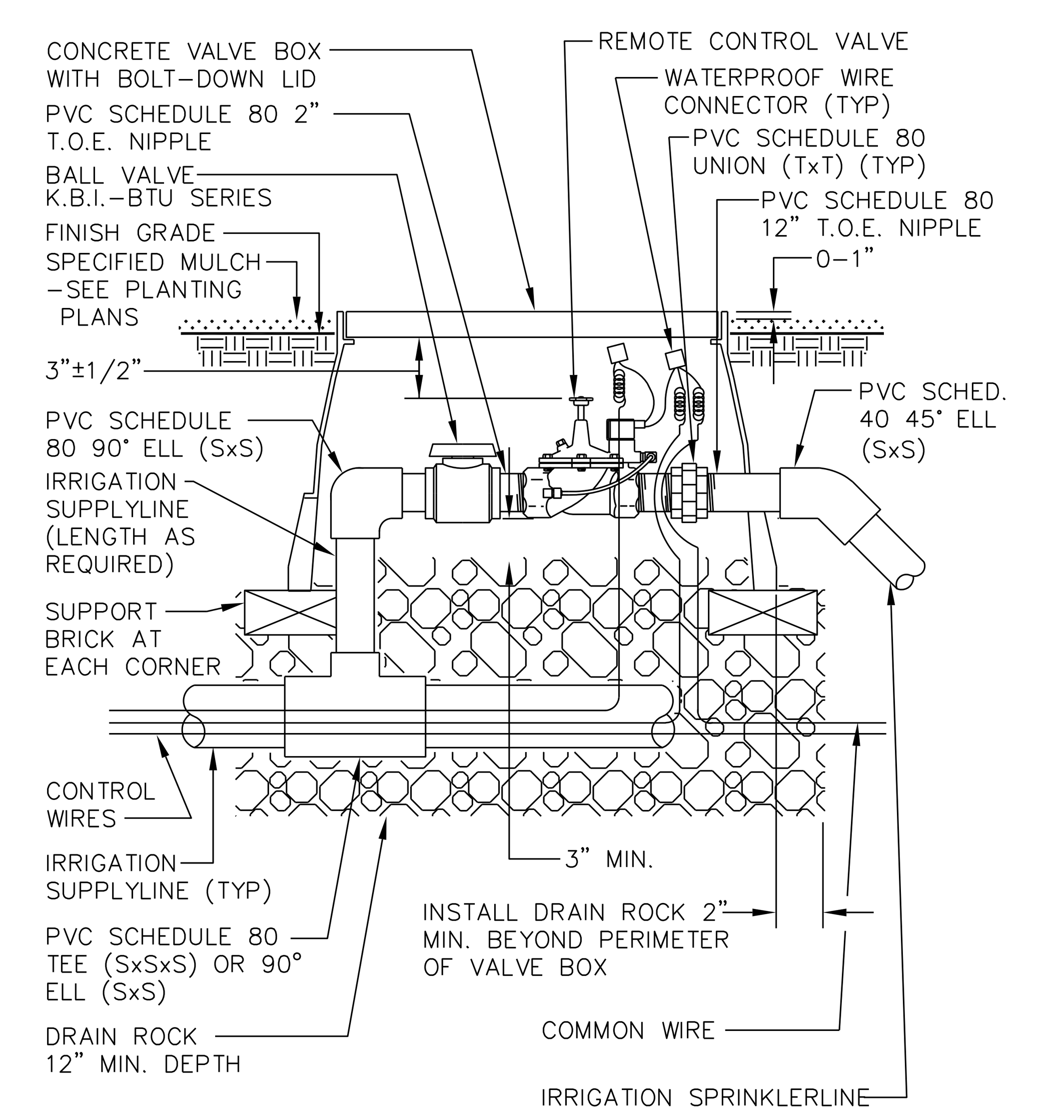
F FLOW METER INSTALLATION DETAIL
NTS

NOTES:
1. USE ONLY EZ-FLO PREMIUM FERTILIZERS AND SUPPLEMENTS.
2. REFER TO MANUFACTURERS OPERATING SPECIFICATIONS PRIOR TO THE START UP OF THE SYSTEM.
3. REFER TO MANUFACTURERS INSTALLATION GUIDELINES.



G FERTILIZATION SYSTEM INSTALLATION DETAIL
NTS

NOTES:
1. VALVE BOXES IN PAVED/PAVER/TURFBLOCK AREAS SHALL BE OLDCASTLE PRECAST MODEL N36 WITH STEEL LID.
2. SET TOP OF BOX FLUSH WITH FINISH GRADE IN TURF AREAS.



H REMOTE CONTROL VALVE INSTALLATION DETAIL
NTS

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NOTES:
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Job No: MAX 1401

Drawing Number:
L03.11

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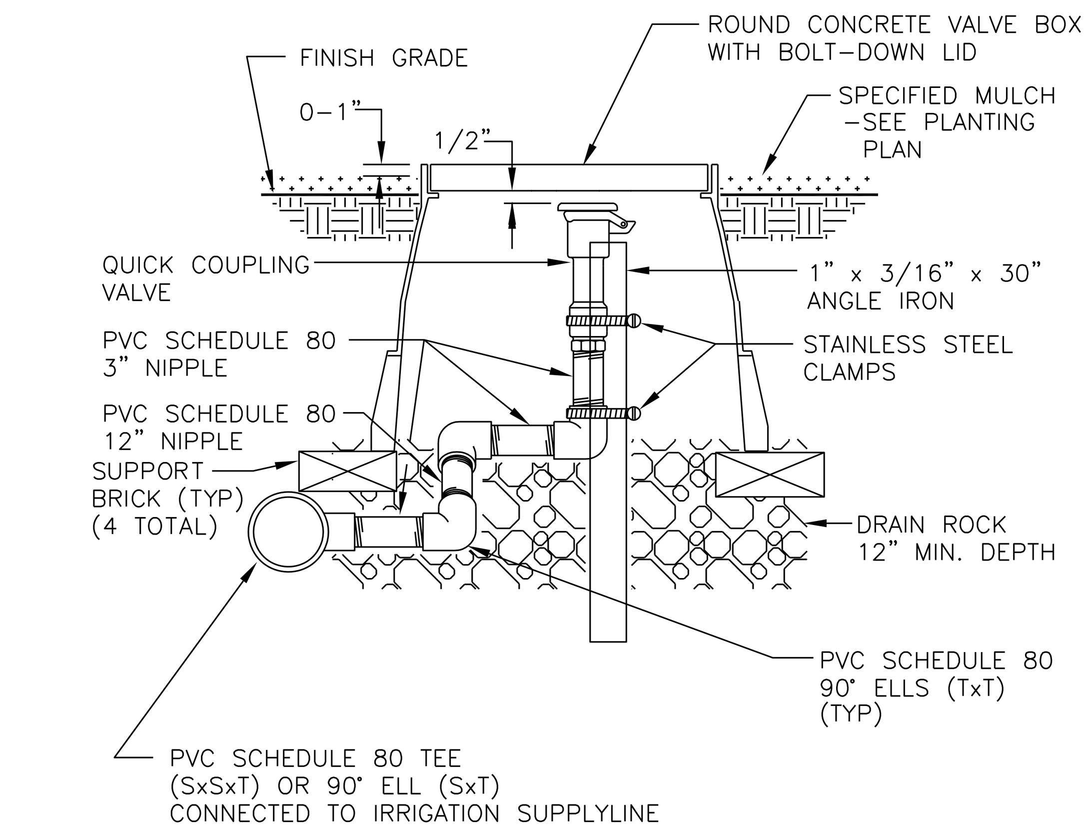
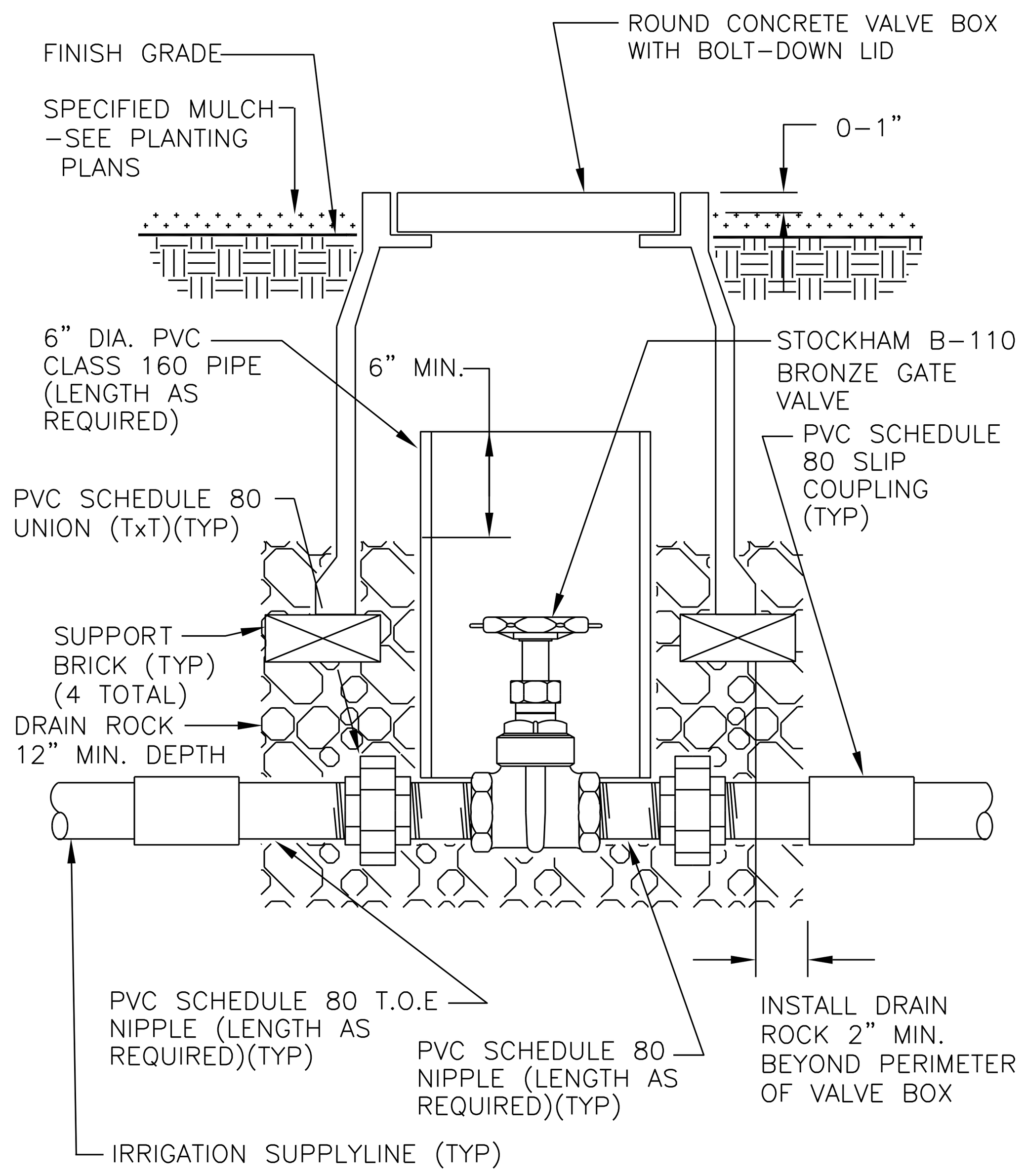
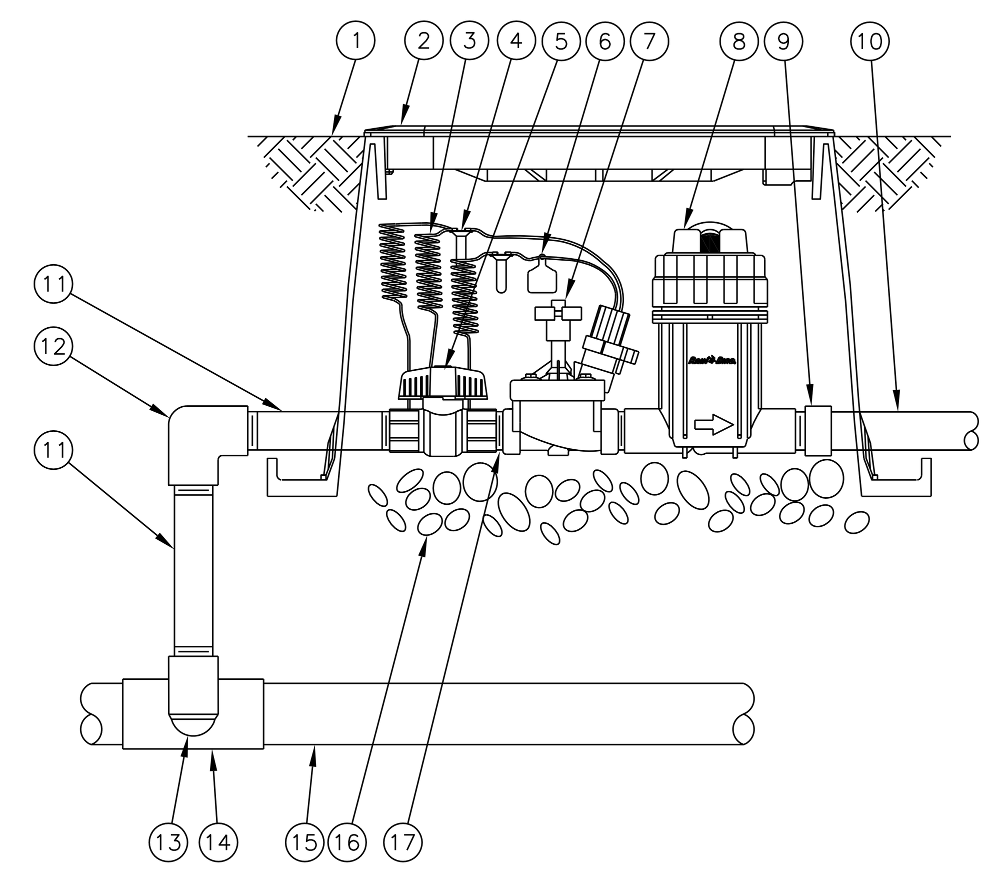
NOTES: 1. VALVE BOXES IN PAVED/PAVER/TURFBLOCK AREAS SHALL BE OLDCASTLE PRECAST MODEL N36 WITH STEEL LID.
2. SET TOP OF BOX FLUSH WITH FINISH GRADE IN TURF AREAS.



A QUICK COUPLING VALVE RISER ASSEMBLY DETAIL
NTS

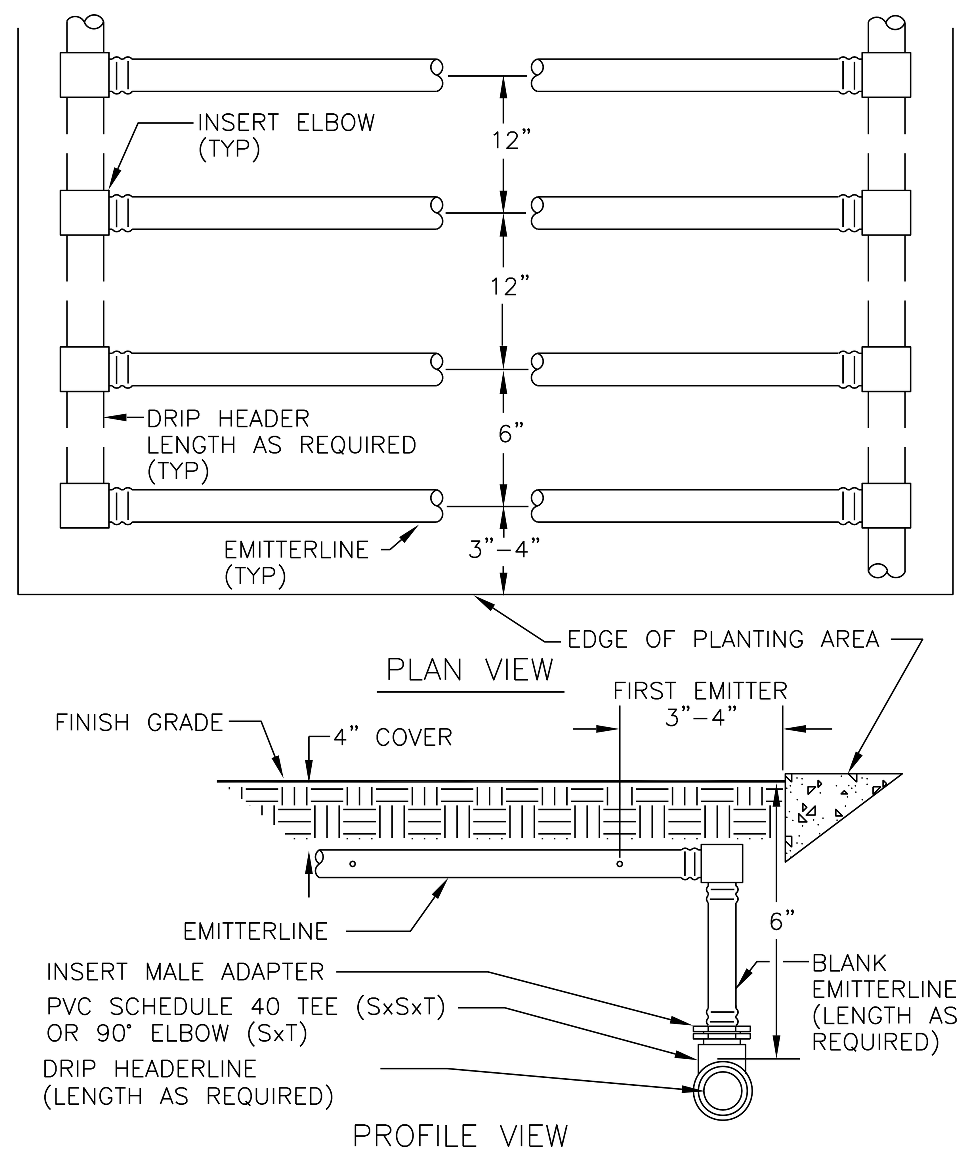


B GATE VALVE INSTALLATION DETAIL
NTS



1. FINISH GRADE/TOP OF MULCH
2. CONCRETE VALVE BOX WITH BOLT-DOWN LID
3. 30-INCH LINEAR LENGTH OF WIRE, COILED
4. WATERPROOF CONNECTION:
5. 1-INCH BALL VALVE (INCLUDED IN XCZ-PRB-100-COM KIT)
6. ID TAG
7. REMOTE CONTROL VALVE: RAIN BIRD PESB (INCLUCED IN XCZ-PRB-100-COM KIT)
8. PRESSURE REGULATING QUICK CHECK BASKET FILTER: RAIN BIRD PRB-QKCHK-100 (INCLUDED IN XCZ-PRB-100-COM KIT)
9. PVC SCH 40 FEMALE ADAPTOR
10. LATERAL PIPE
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 40 ELL
13. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
14. PVC SCH 40 TEE OR ELL
15. MAINLINE PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
17. PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-100-COM KIT)

C DRIP ZONE KIT INSTALLATION DETAIL
NTS



D EMITTERLINE INSTALLATION DETAIL
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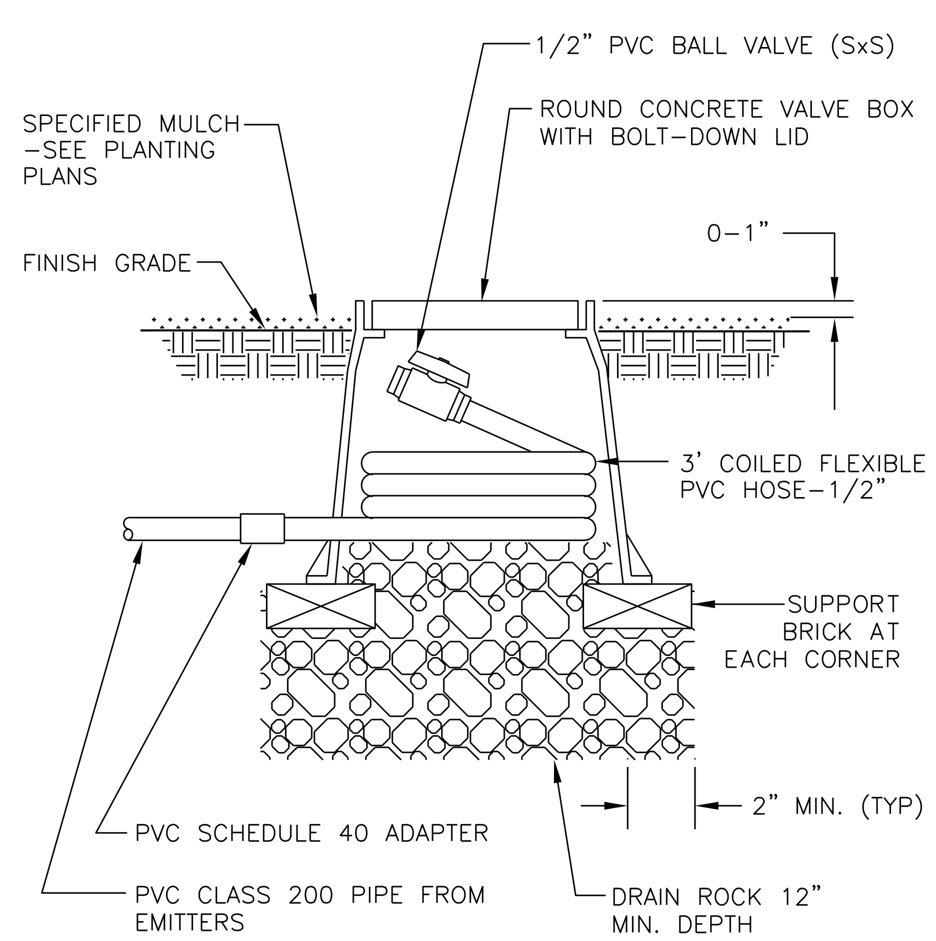
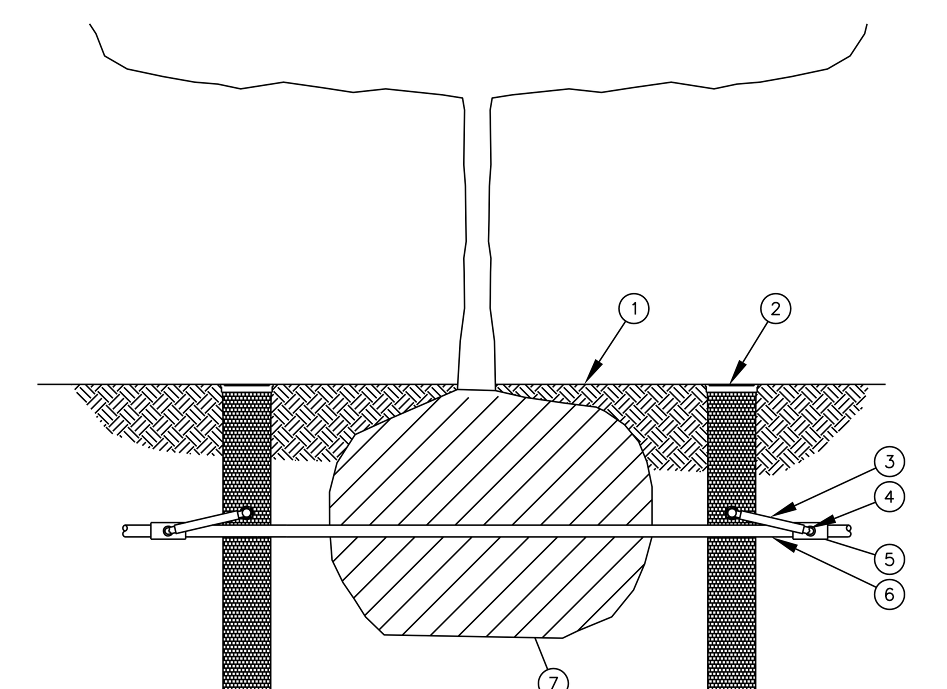


E FLUSH VALVE INSTALLATION DETAIL
NTS



NOTES:
1. POSITION 2 UNITS EVENLY SPACED AROUND PLANT. FOR NEW TREES PLACE NEAR ROOT BALL.
2. INSTALL PRODUCT WITH TOP EVEN WITH FINISH GRADE.
3. ADD ¾" GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
4. ONCE RWS HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.

1. FINISH GRADE/TOP OF D.G.
2. ROOT WATERING SERIES: RAIN BIRD RWS SERIES
3. SWING ASSEMBLY (INCLUDED)
4. 1/2-INCH MALE NPT INLET (INCLUDED)
5. PVC SCH 40 TEE OR EL
6. PVC LATERAL PIPE
7. PLANT ROOT BALL

F TREE BUBBLER INSTALLATION DETAIL

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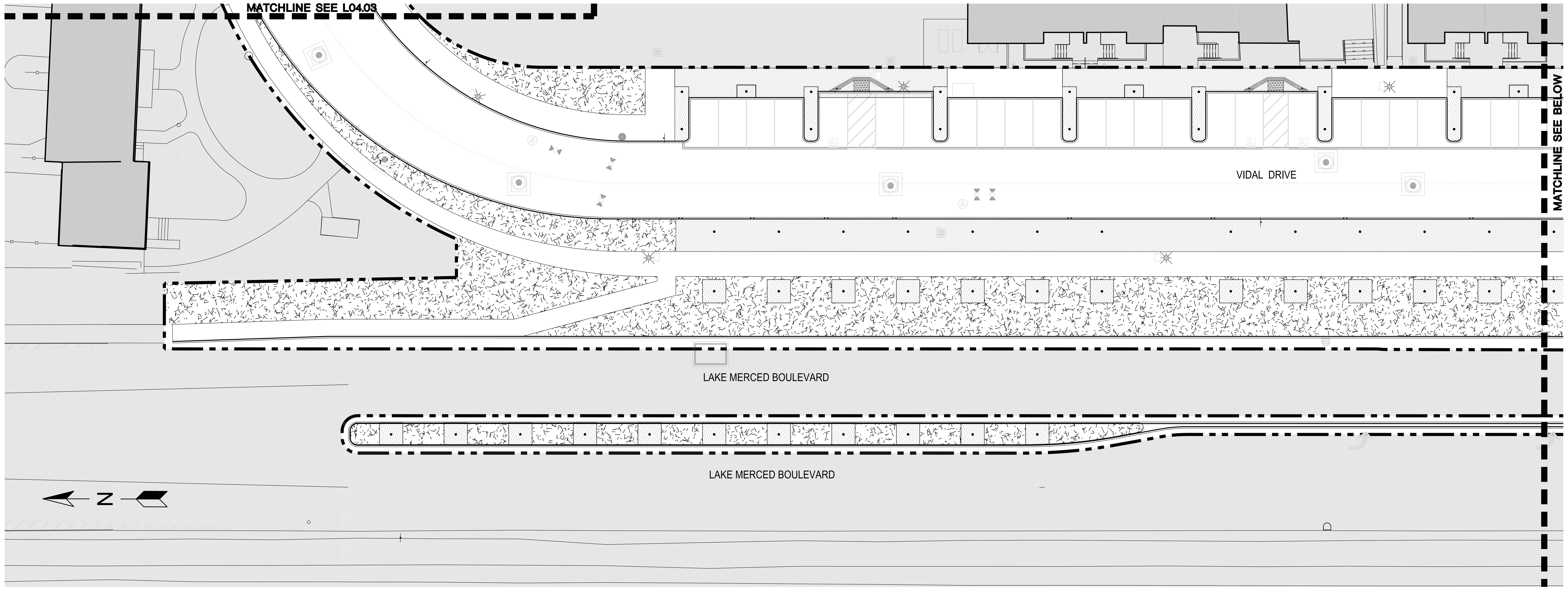

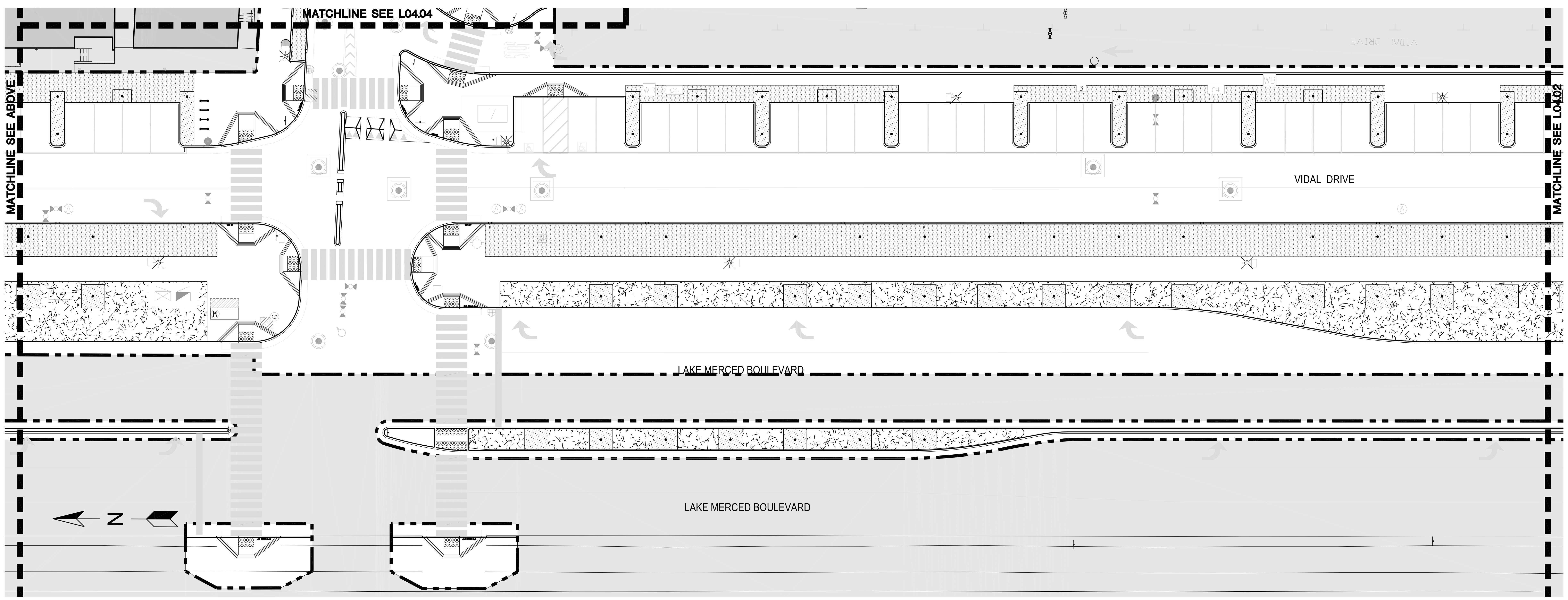

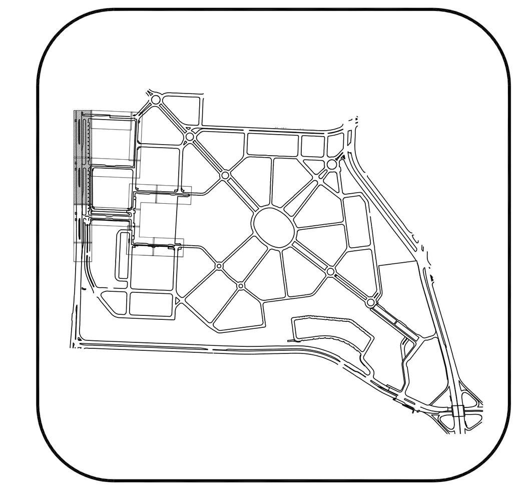

0' 20' 40'

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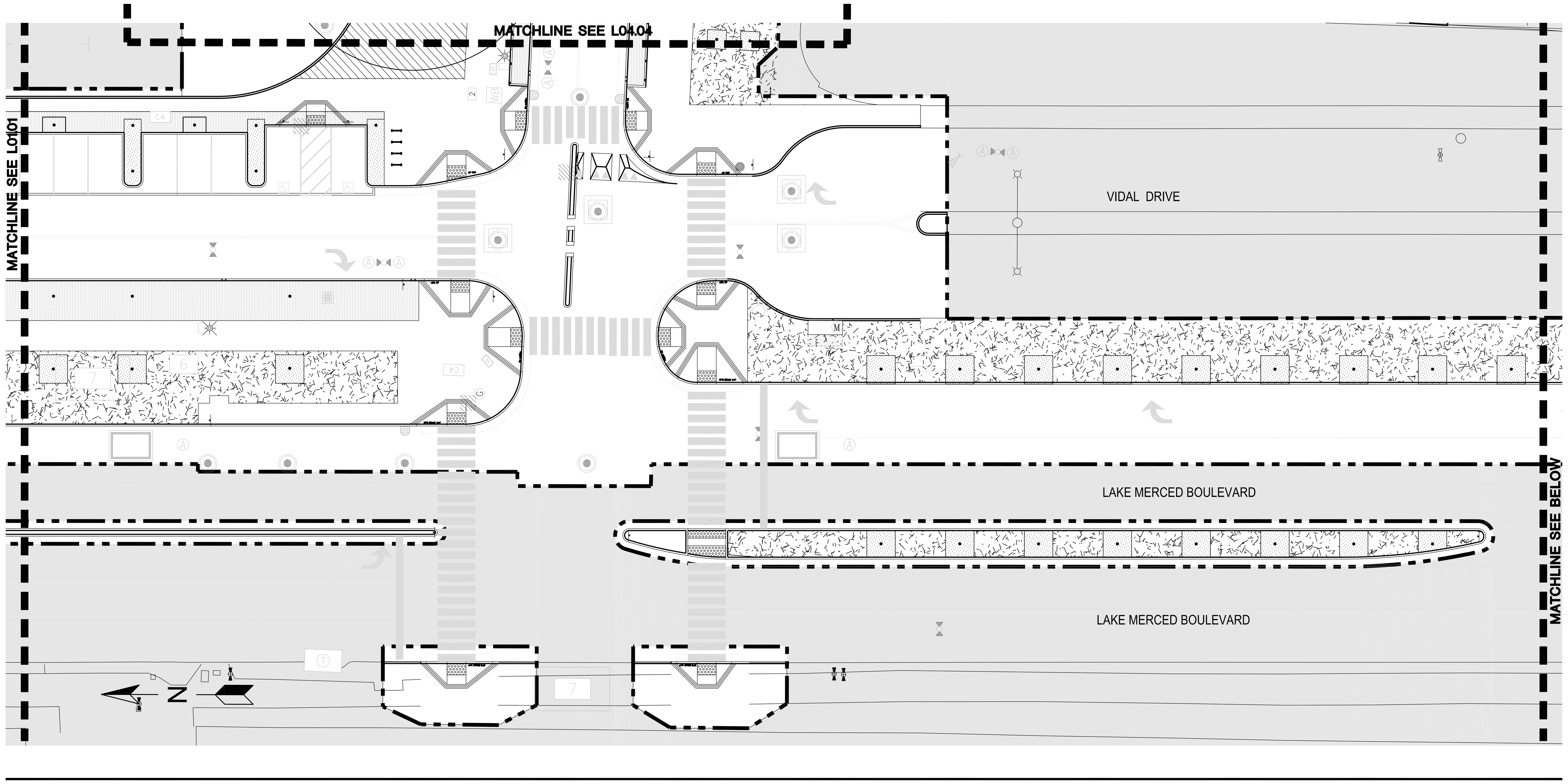

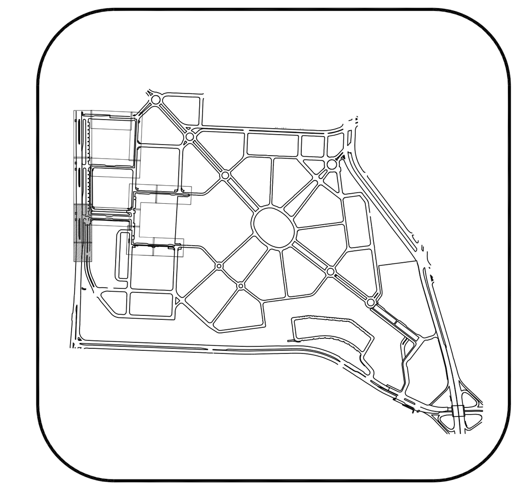

0' 20' 40'

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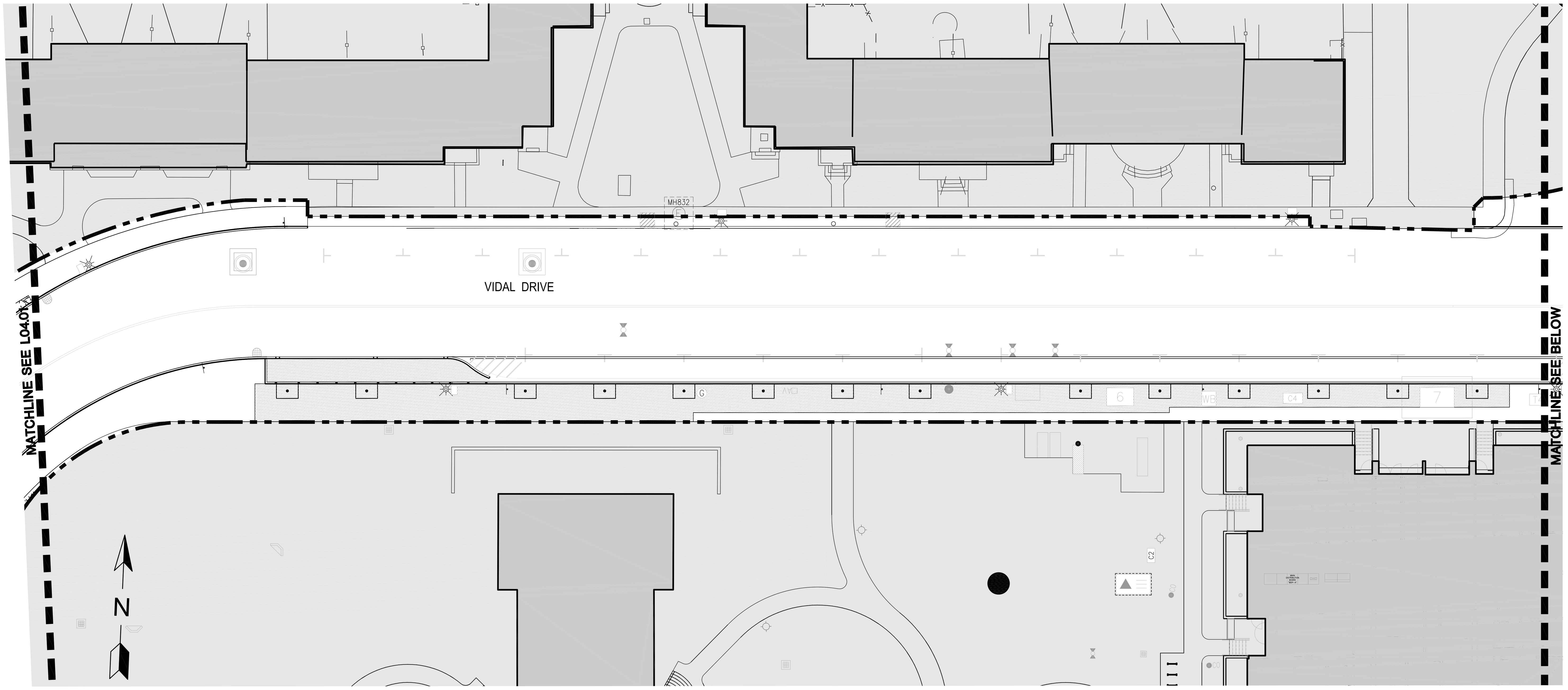

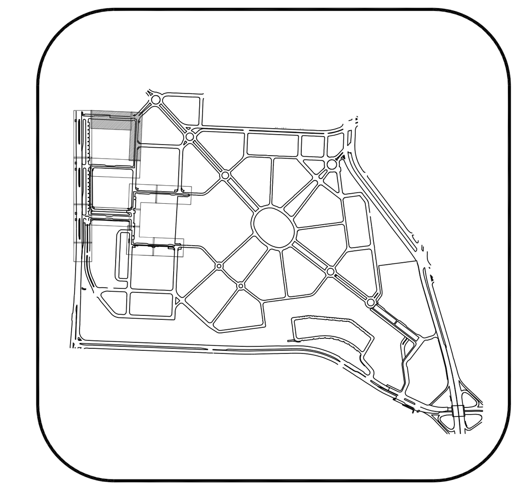

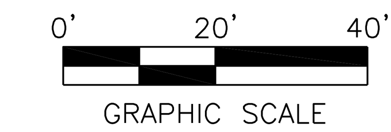

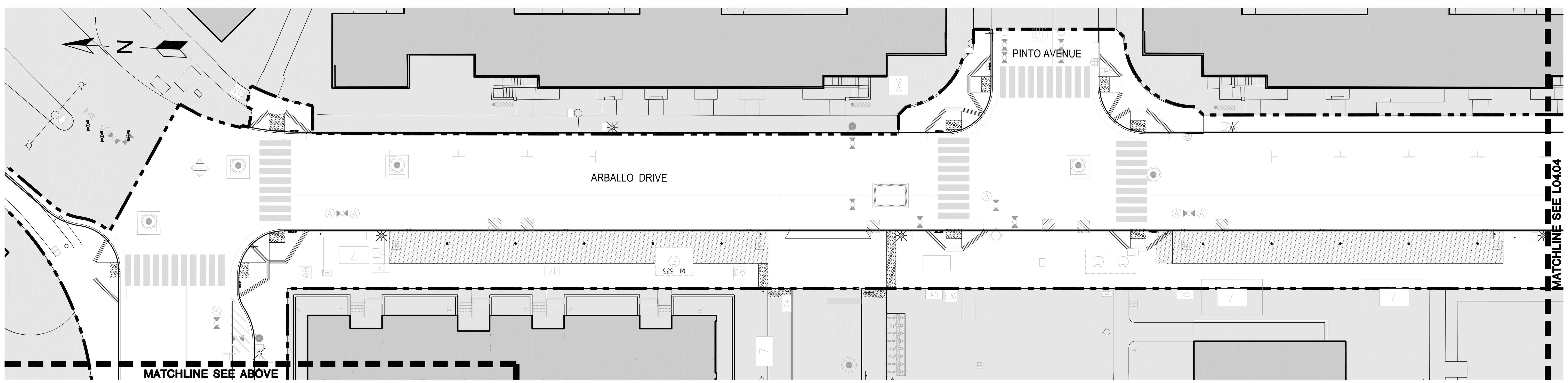

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SOILS PLAN

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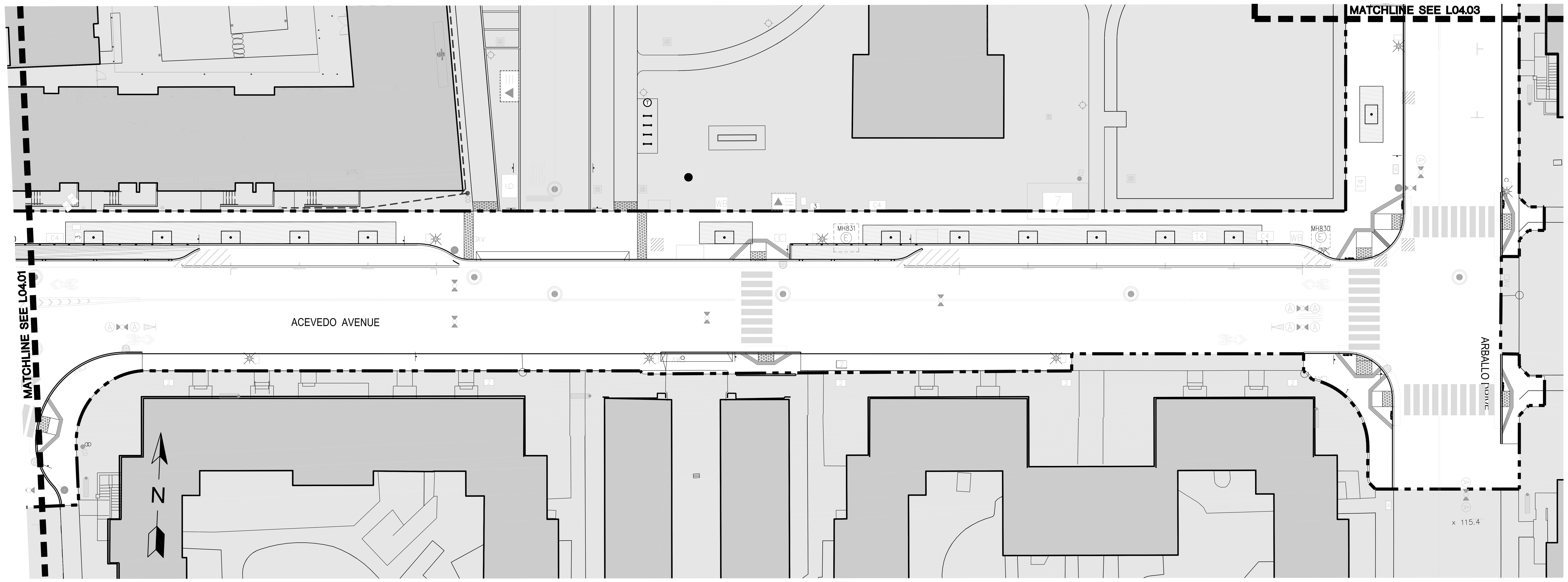
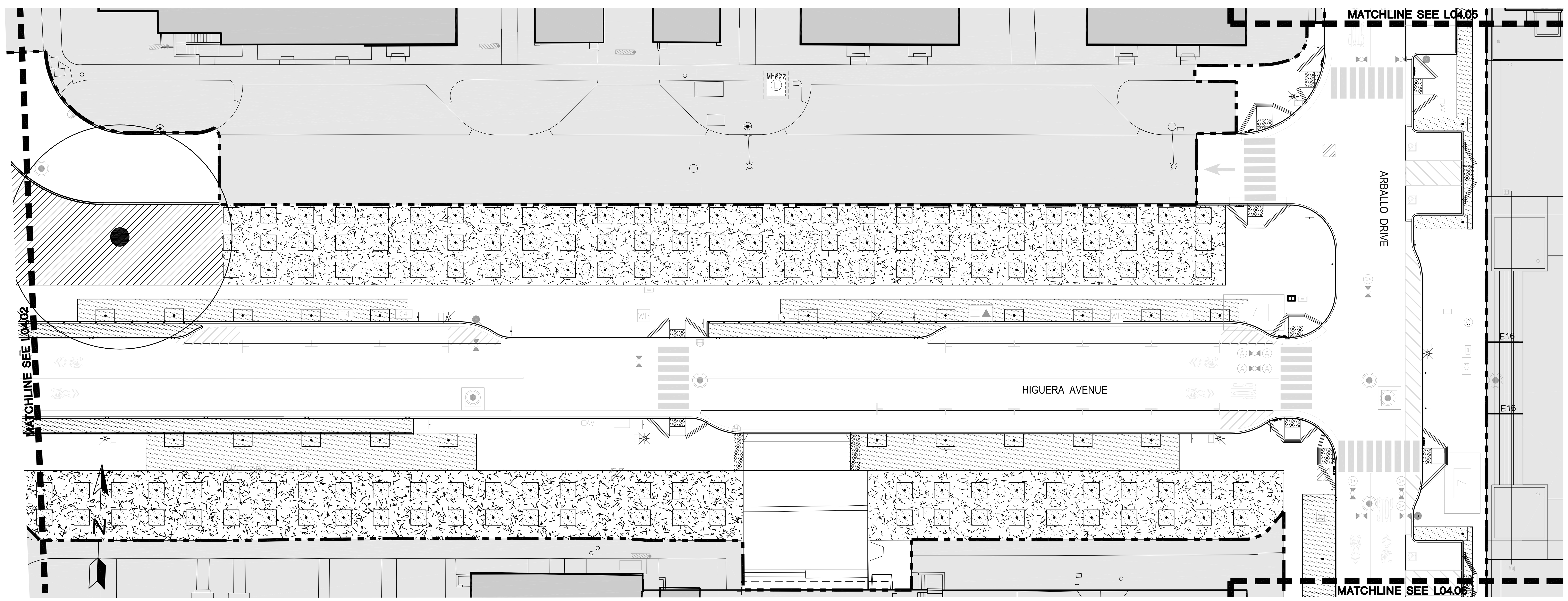
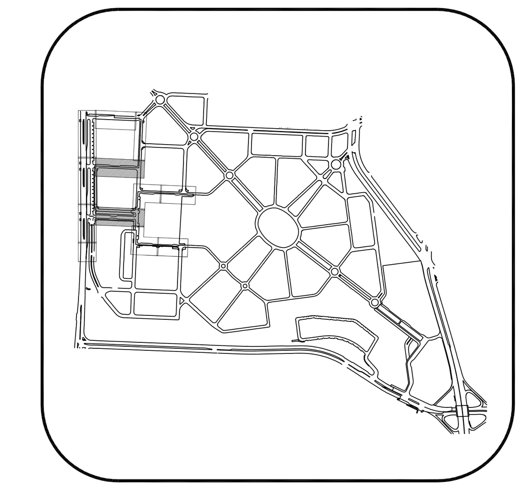
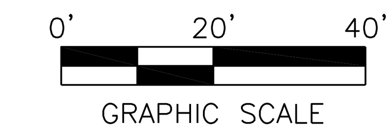








NOTES:

1. REFER TO SHEETS L00.01-L00.02 FOR GENERAL NOTES AND LEGENDS

PWP LANDSCAPE ARCHITECTURE
739 Allston Way
Berkeley, CA 94710
510.849.9494

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
SOILS PLAN

SAN FRANCISCO — SAN FRANCISCO COUNTY — CALIFORNIA

NOT FOR CONSTRUCTION

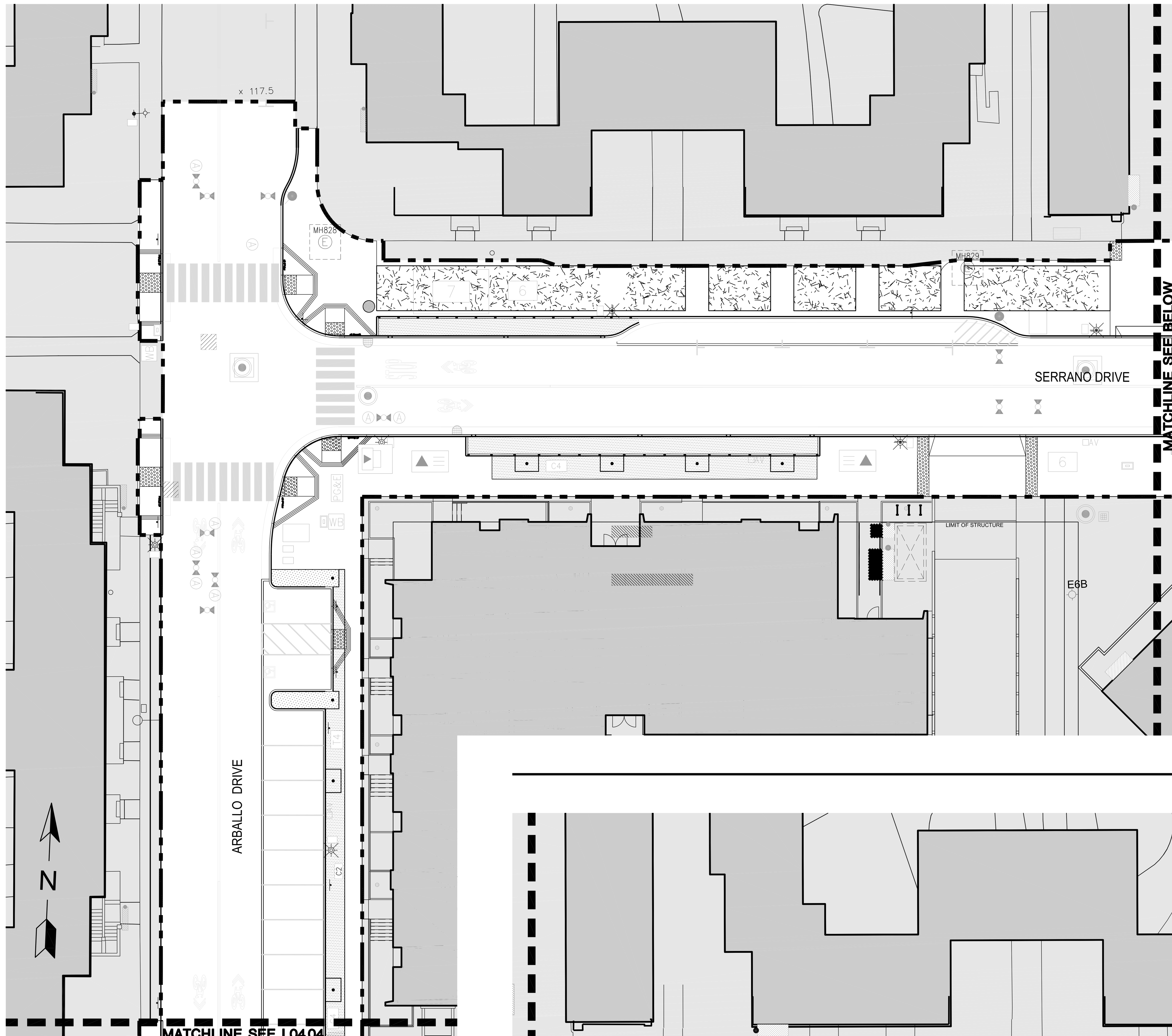
No.	Revisions

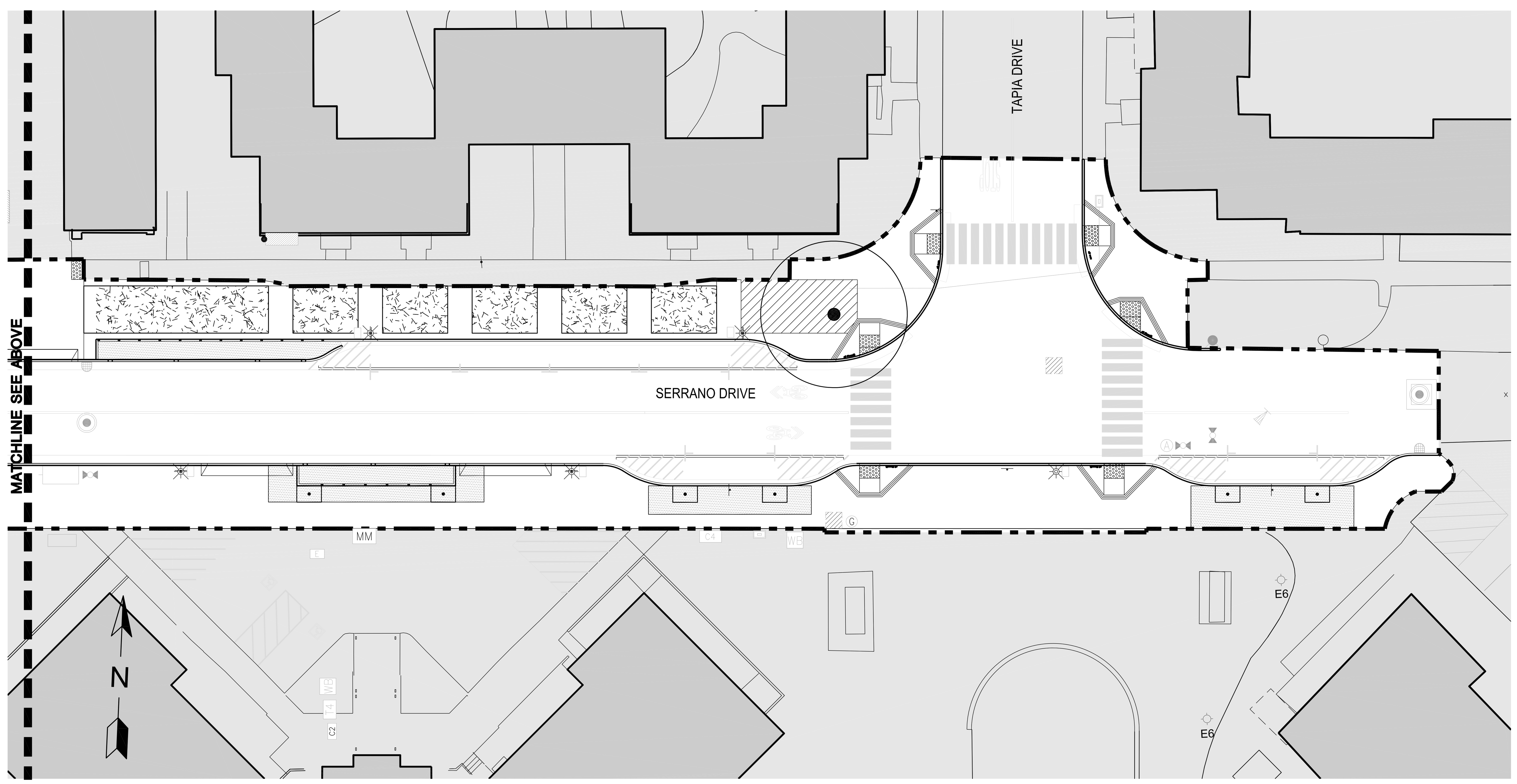
Date: 05/01/17
Scale: 1"=20'
Design: LEAD
Drawn: TEAM
Approved: LEAD
Job No: MAX 1401

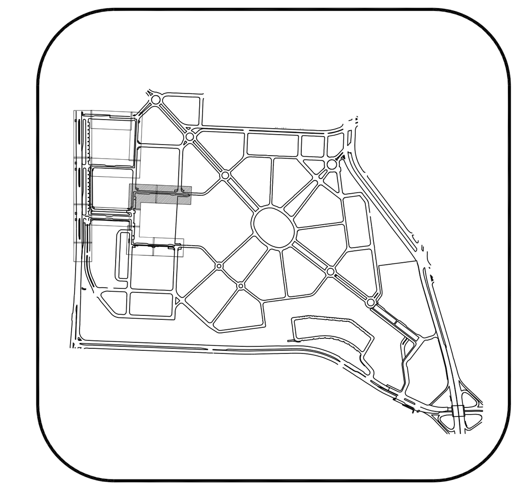
Drawing Number:
L04.04

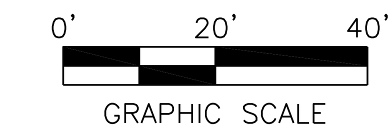
DRAWING NAME: O:\MAX\1401\Current\ACAD\Plans\Sheets\Streets 10_100p SP - Approved Set for Board Submittal\PH01A_L04.XX SOILS PLAN.dwg (L04.04)
PLOT TIME: 4-28-2017 11:07 AM PLOTTED BY: jvigors

APPROVED SET FOR BOARD SUBMITTAL 05.01.17









NOTES:

1. REFER TO SHEETS L00.01-L00.02 FOR GENERAL NOTES AND LEGENDS

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PHASE 1A STREET IMPROVEMENT PLANS
SOILS PLAN

SAN FRANCISCO
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REGISTERED LANDSCAPE ARCHITECT
DOUGLAS ROSS FINDLAY
No. 3283
Signature
DATE BELOW
Date
STATE OF CALIFORNIA
EXP. 06/30/2016

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No.	Revisions

Date: 05/01/17
Scale: 1"=20'
Design: LEAD
Drawn: TEAM
Approved: LEAD
Job No: MAX 1401

Drawing Number:
L04.05

DRAWING NAME: O:\MAX\1401\Current\ACAD\Plans\Sheets\Streets 10_100p SIP - Approved Set for Board Submittal\PH01A_L04.XX SOILS PLAN.dwg (L04.05)
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APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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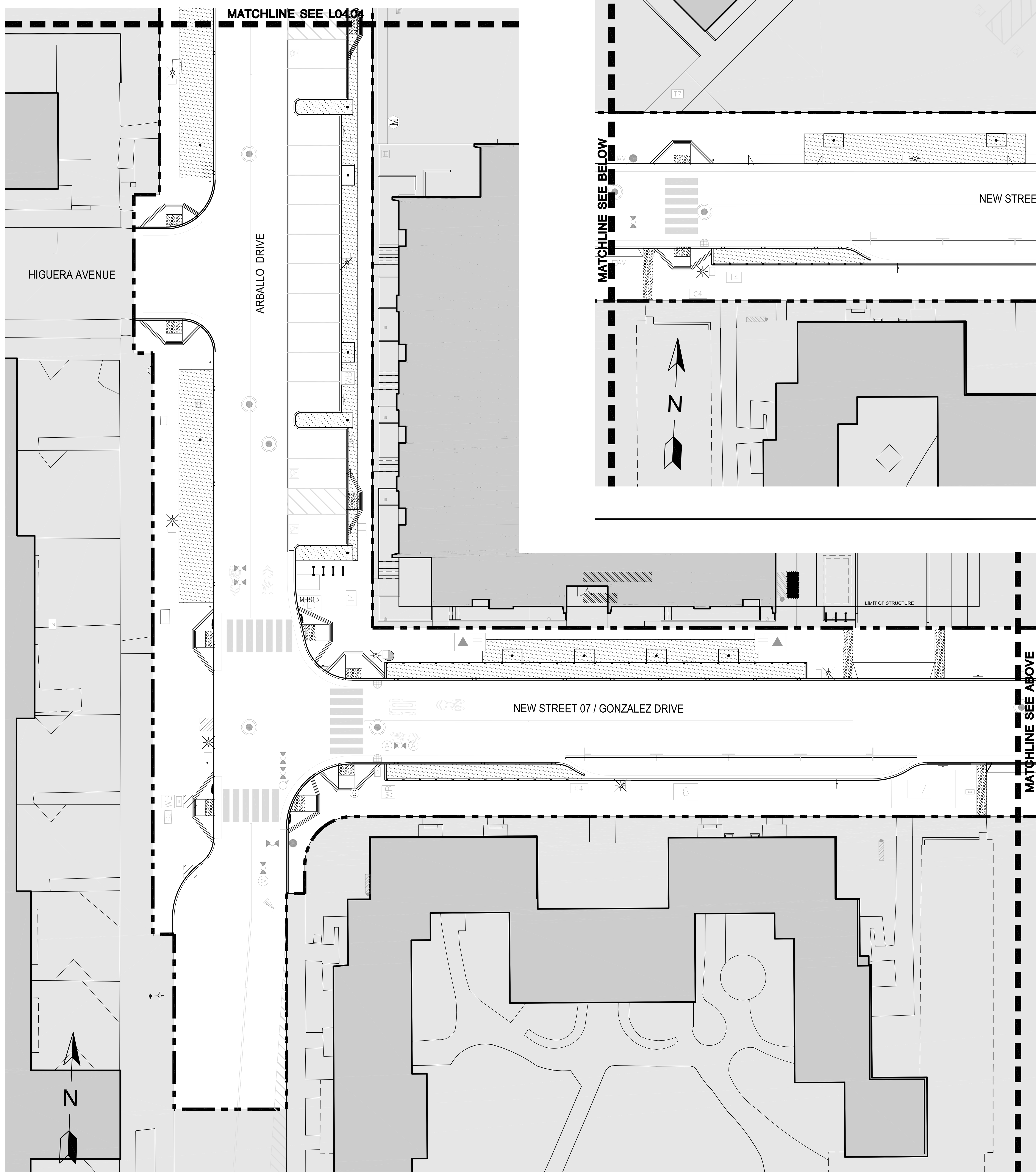

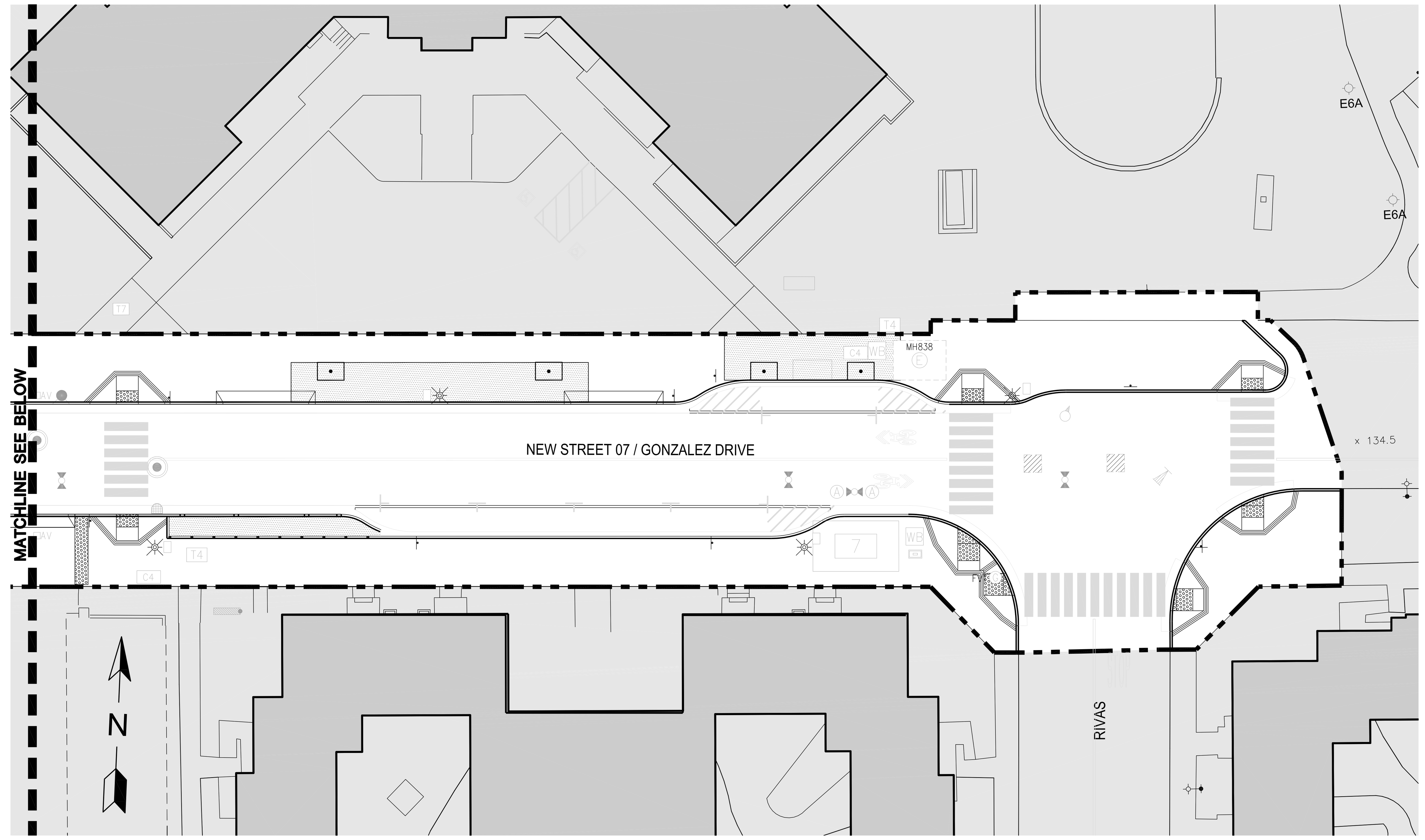

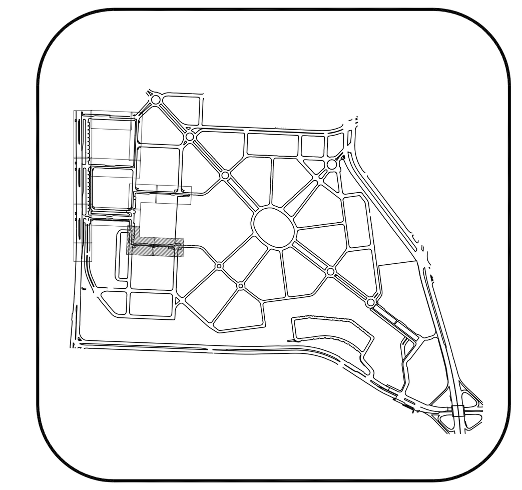

0' 20' 40'
GRAPHIC SCALE

NOTES:

1. REFER TO SHEETS L00.01-L00.02 FOR GENERAL NOTES AND LEGENDS

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SOILS PLAN

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Scale: 1"=20'		
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Drawn: TEAM		
Approved: LEAD		
Job No: MAX 1401		

Drawing Number:
L04.06

DRAWING NAME: O:\MAX\1401\Current\ACAD\Plans\Sheets\Streets 10_100p SIP - Approved Set for Board Submittal\PH01A_L04.XX SOILS PLAN.dwg (L04.06)
PLOT TIME: 4-28-2017 11:08 AM PLOTTED BY: jugions

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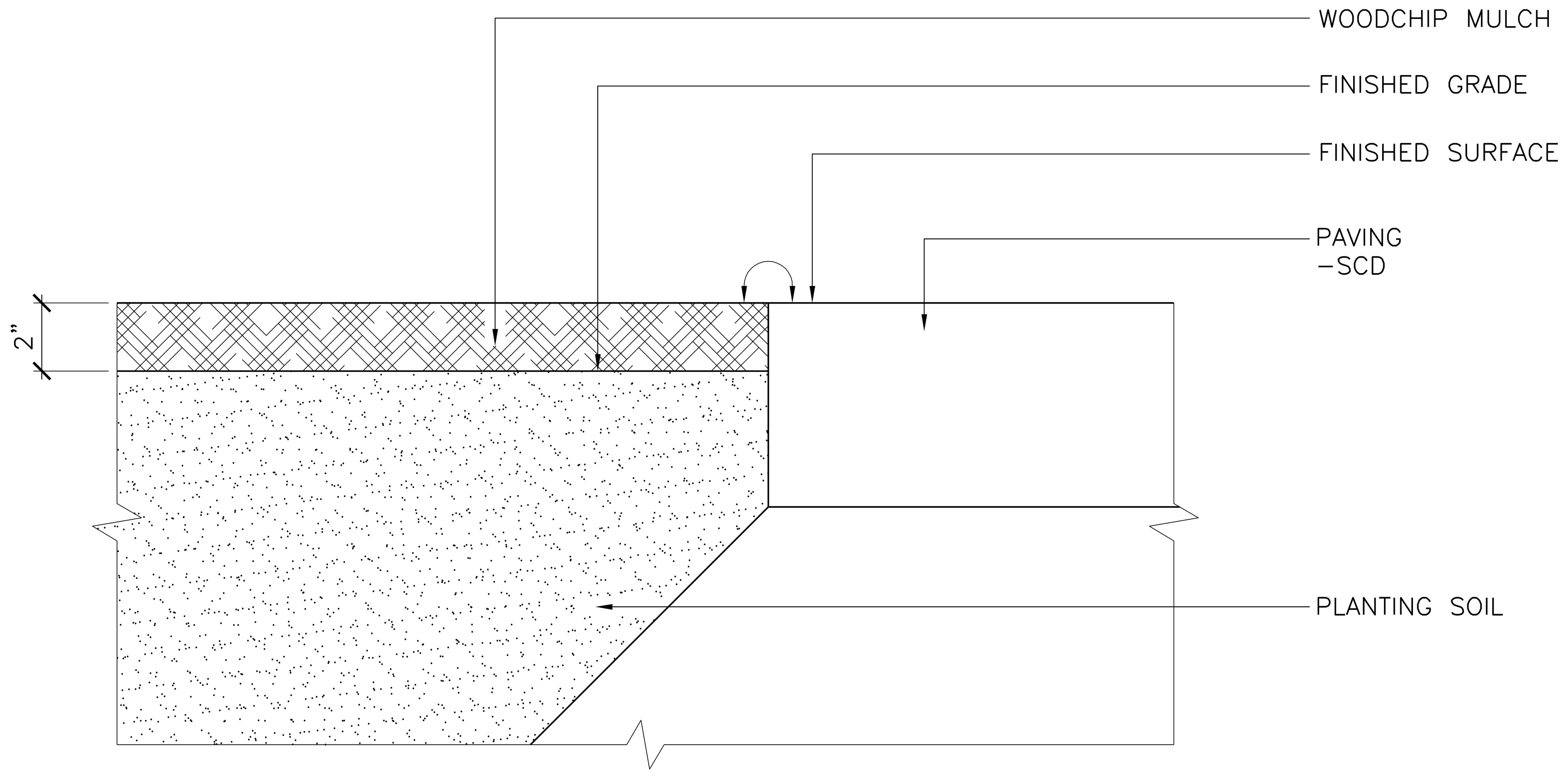
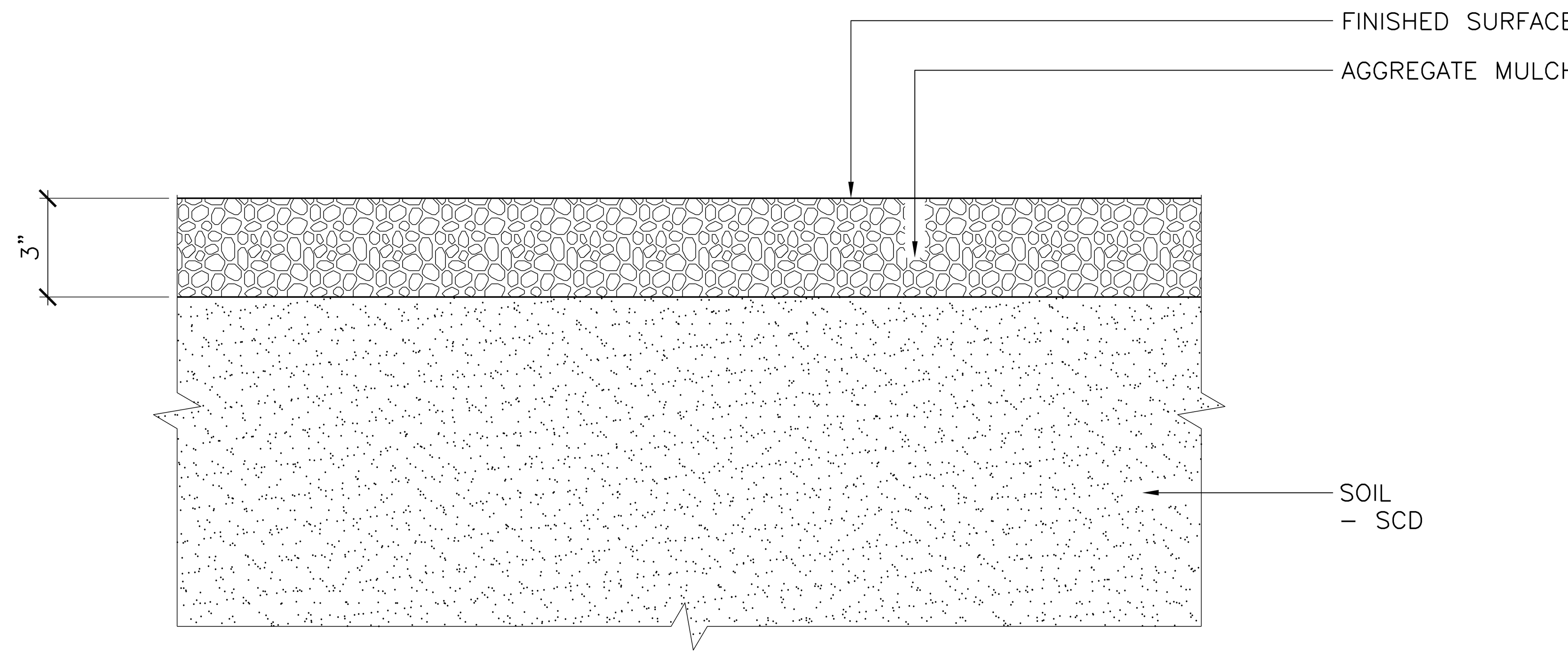
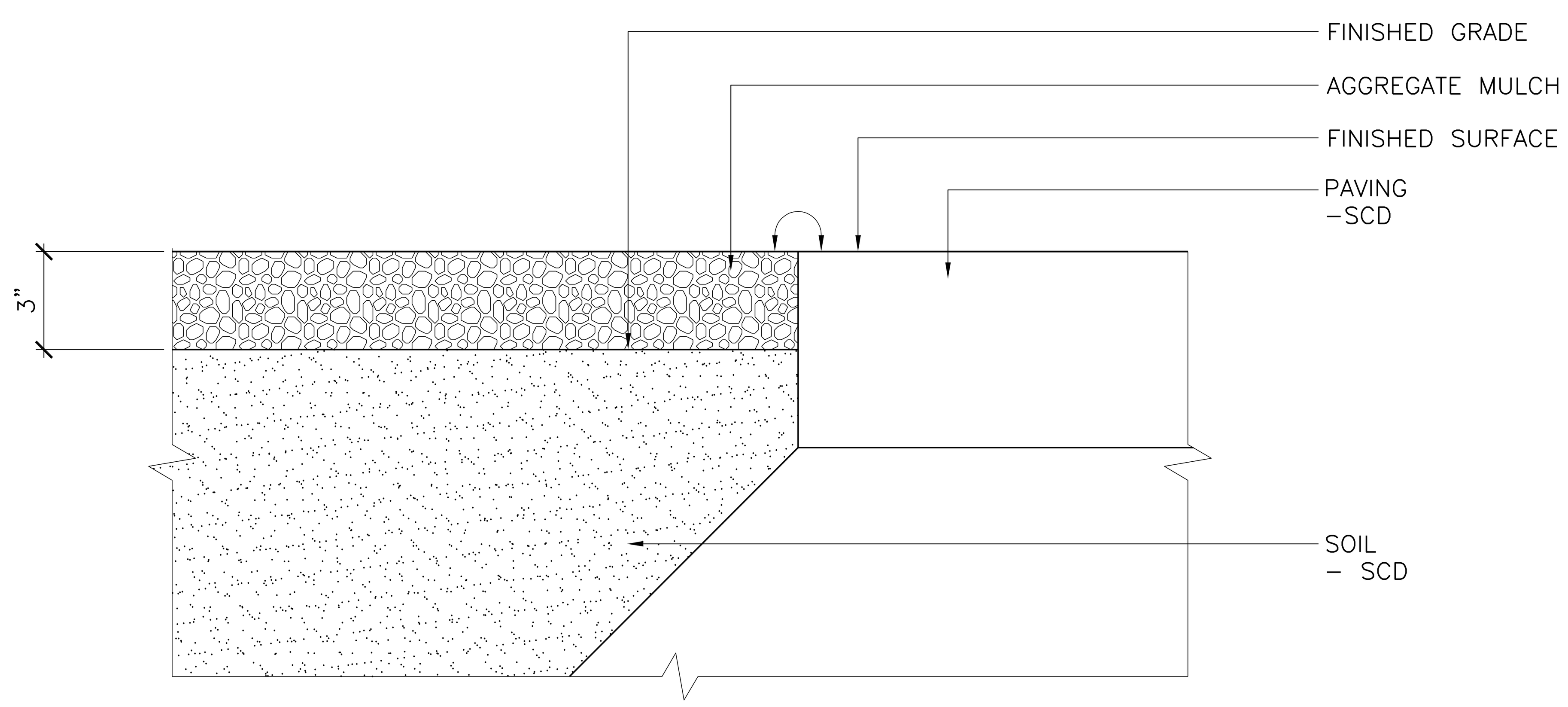


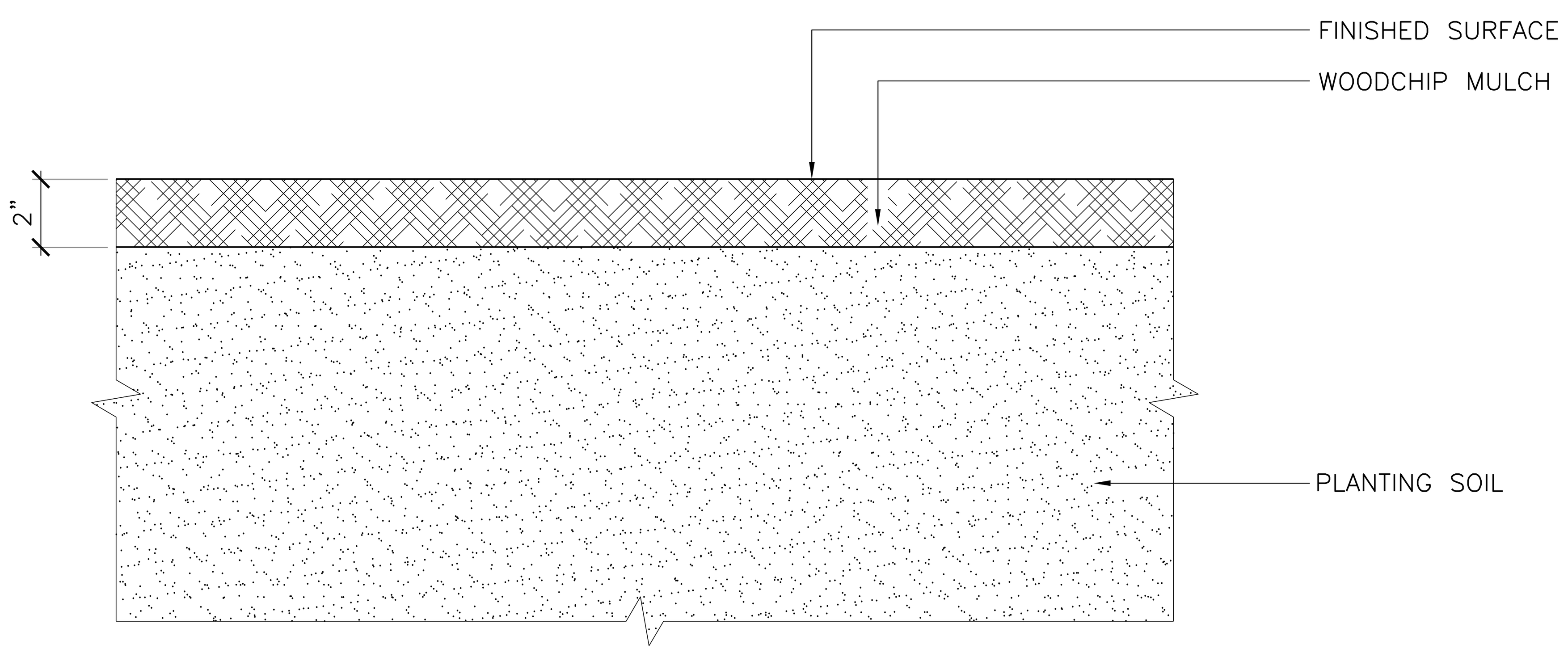
4 WOODCHIP MULCH AT PAVING
SCALE: 3" = 1'-0" 0 6" 1' TYPICAL SECTION



2 AGGREGATE MULCH
SCALE: 3" = 1'-0" 0 6" 1' TYPICAL SECTION



3 AGGREGATE MULCH AT PAVING
SCALE: 3" = 1'-0" 0 6" 1' TYPICAL SECTION



1 WOODCHIP MULCH
SCALE: 3" = 1'-0" 0 6" 1' TYPICAL SECTION

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PLANTING DETAILS
SAN FRANCISCO COUNTY
SAN FRANCISCO CALIFORNIA

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No.	Revisions

Date: 05/01/17
Scale: AS NOTED
Design: LEAD
Drawn: TEAM
Approved: LEAD
Job No: MAX 1401

Drawing Number:
L07.01

DRAWING NAME: O:\MAX\1401\Current\ACAD\Details\12_100p SIP PH01 BOARD SUBMITTAL\L07.XX PLANTING\L07.XX PLANTING.dwg (L07.01 PH01A)
PLOT TIME: 4-28-2017 10:03 AM PLOTTED BY: jvgora

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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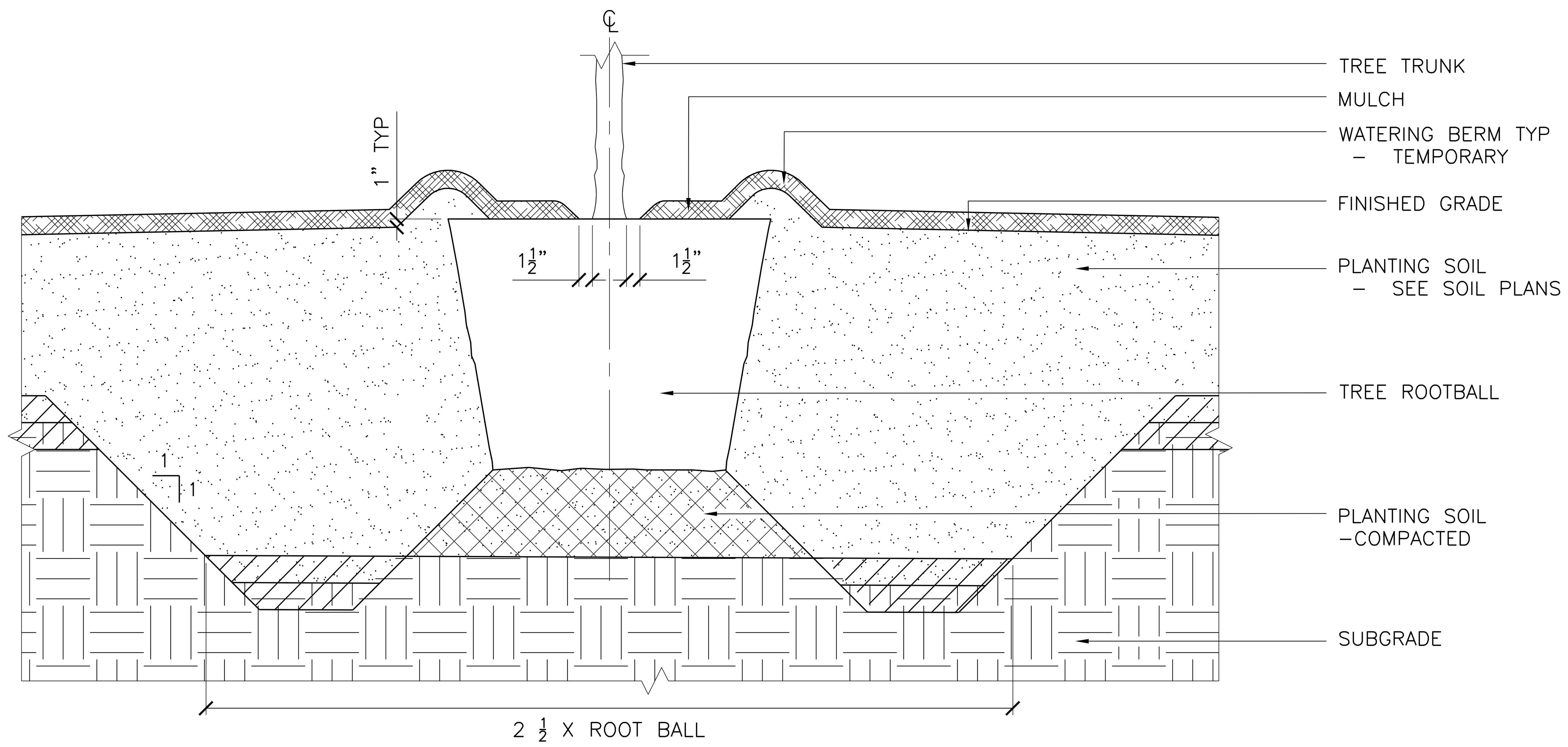
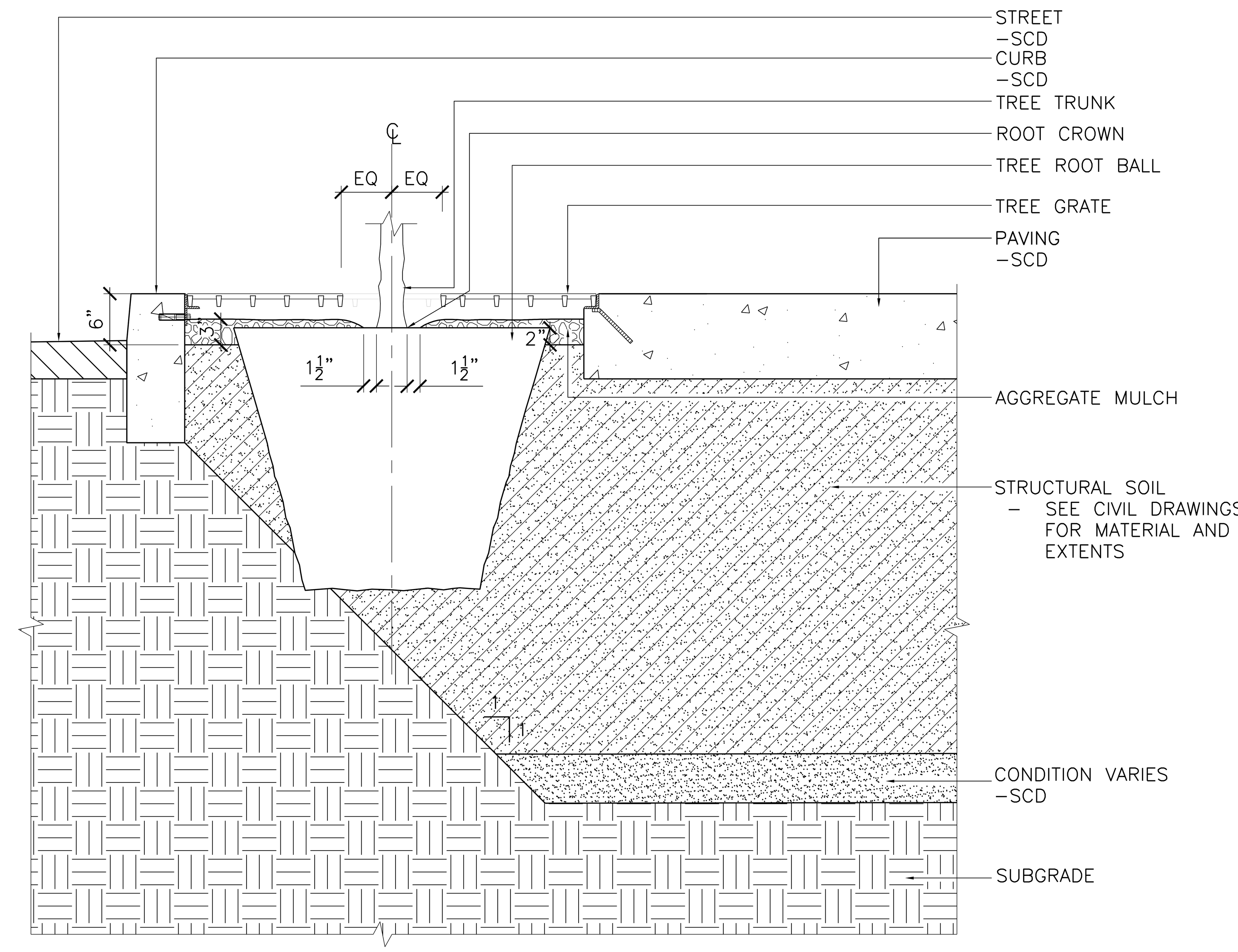
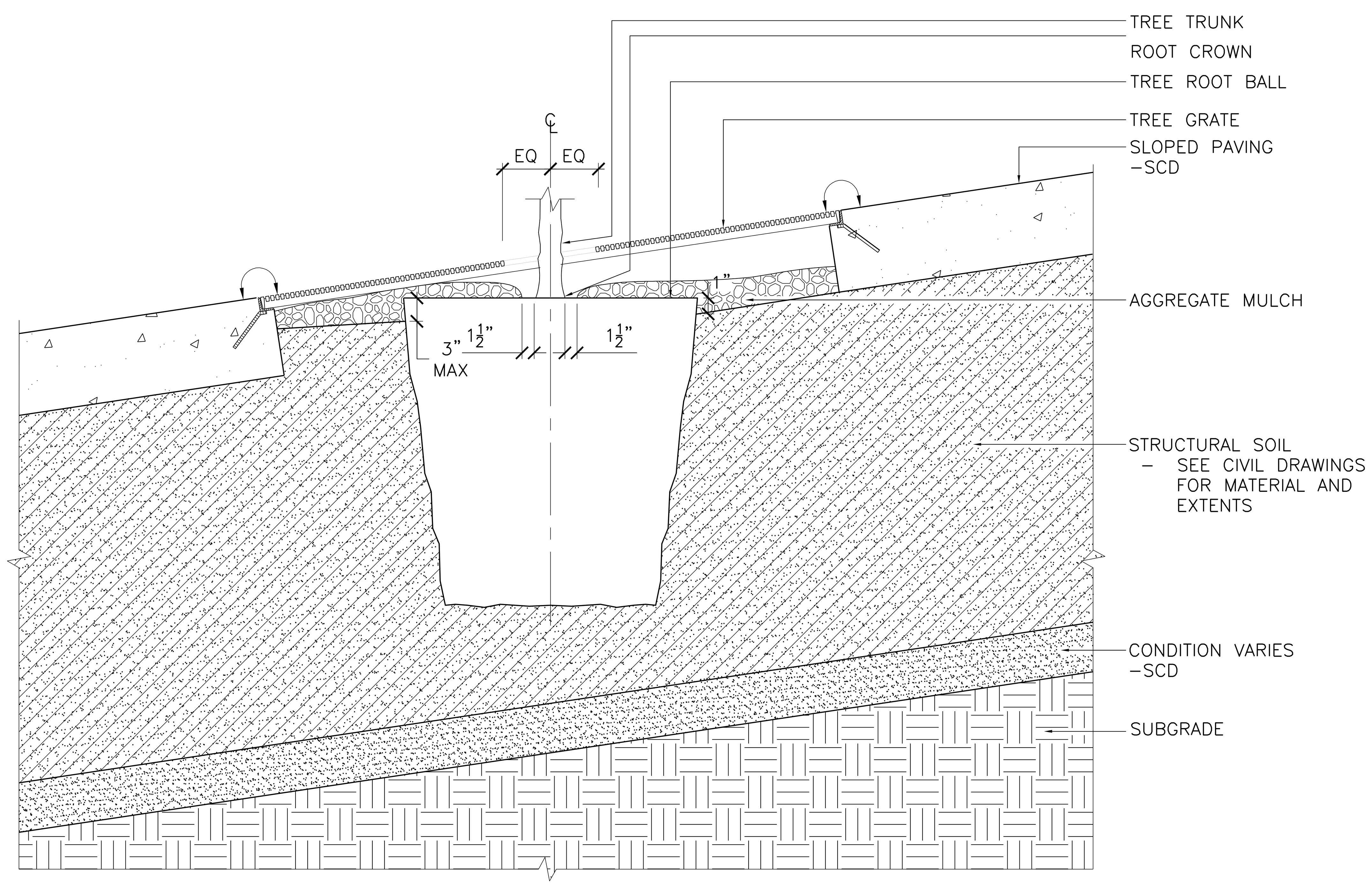


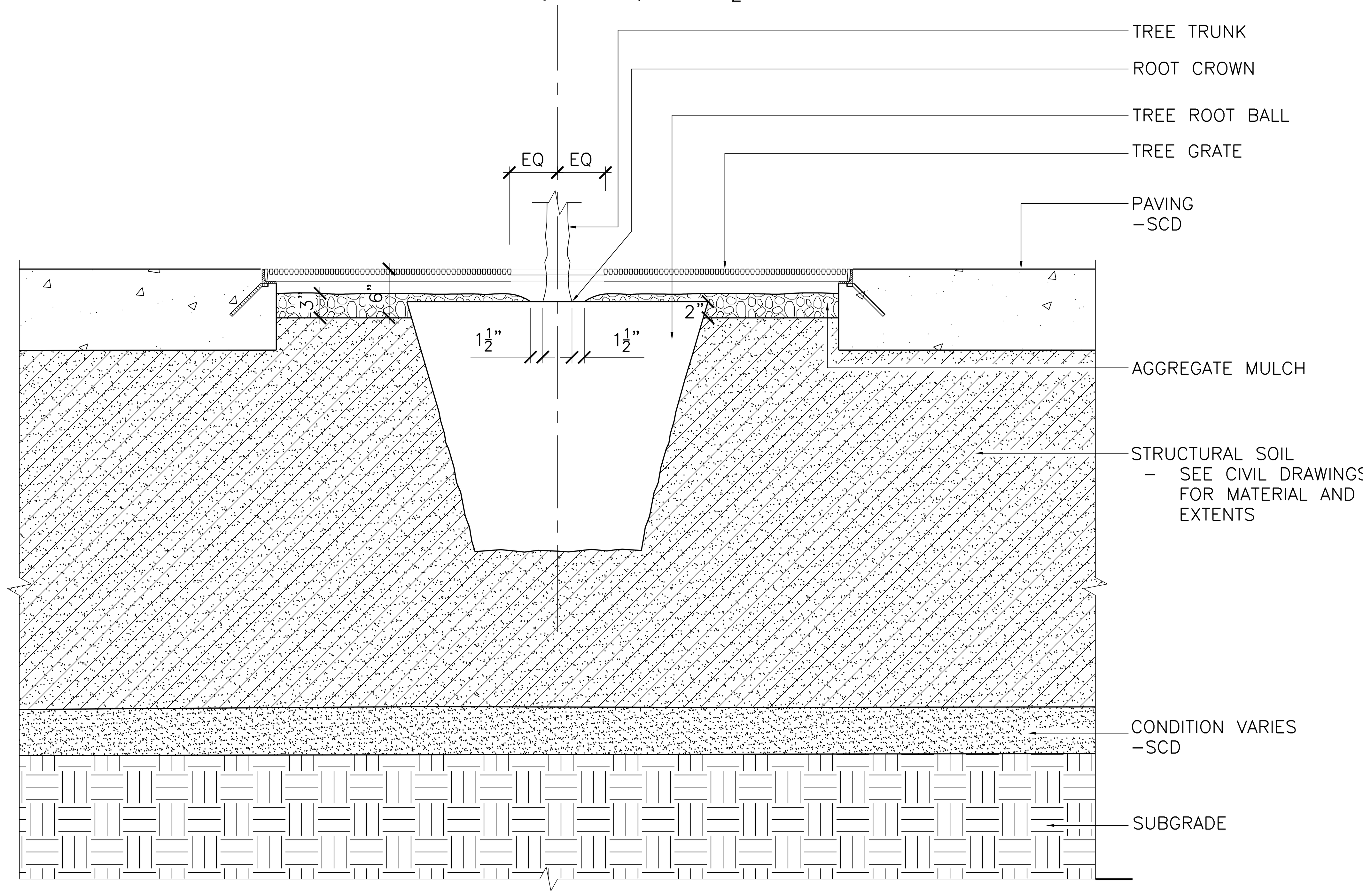
4 **TREE PLANTING**
SCALE: 1"=1'-0" 0 1' 2' TYPICAL SECTION



2 **TREE IN STRUCTURAL SOIL AT CURB**
SCALE: 1"=1'-0" 0 1' 2' TYPICAL SECTION



3 **STREET TREE PLANTING ON SLOPE**
SCALE: 1"=1'-0" 0 1' 2' TYPICAL SECTION



1 **TREE IN STRUCTURAL SOIL AT CONCRETE PAVING**
SCALE: 1"=1'-0" 0 1' 2' TYPICAL SECTION

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PLANTING DETAILS
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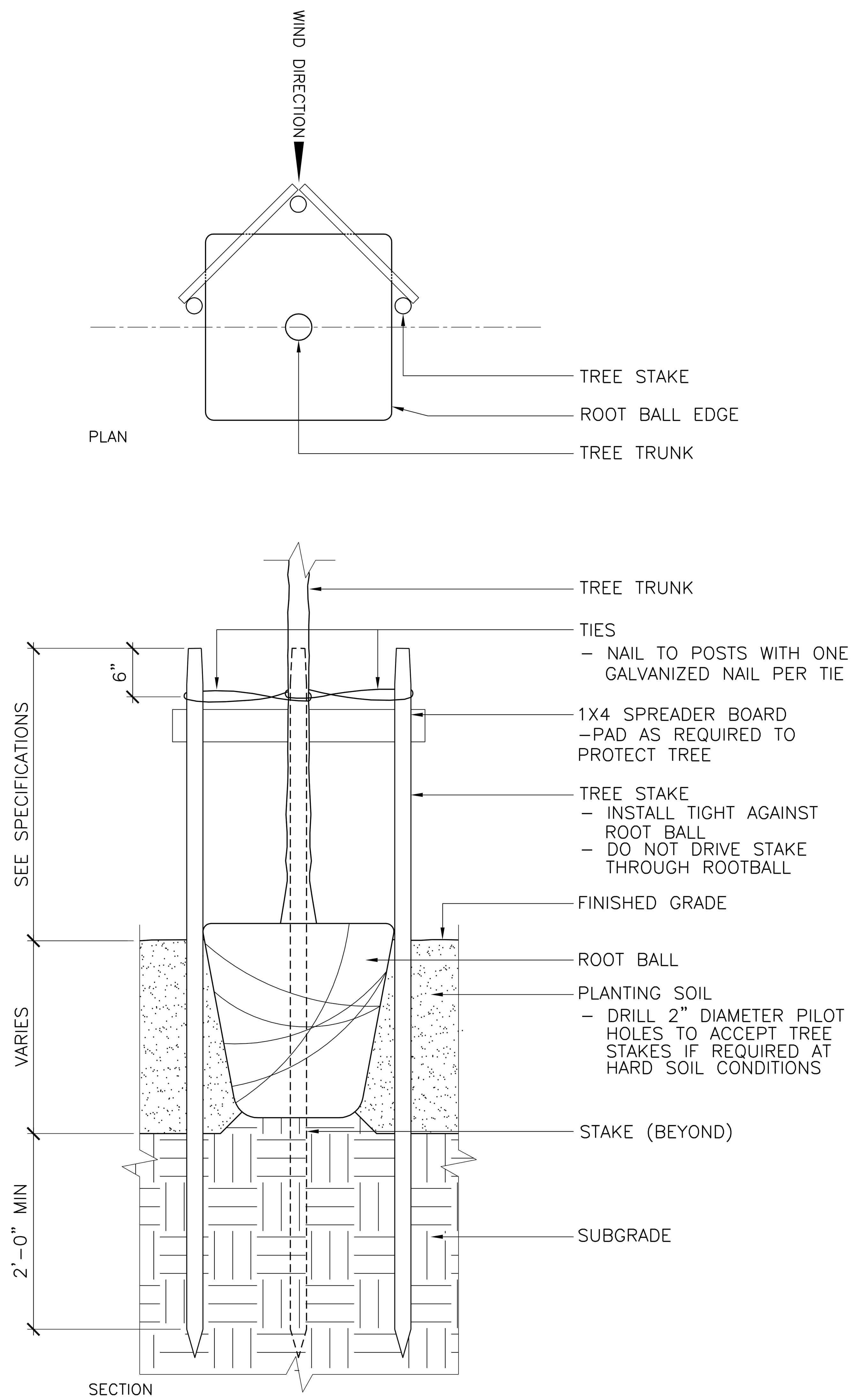
Scale: AS NOTED
Design: LEAD
Drawn: TEAM
Approved: LEAD
Job No: MAX 1401

Drawing Number:
L07.02

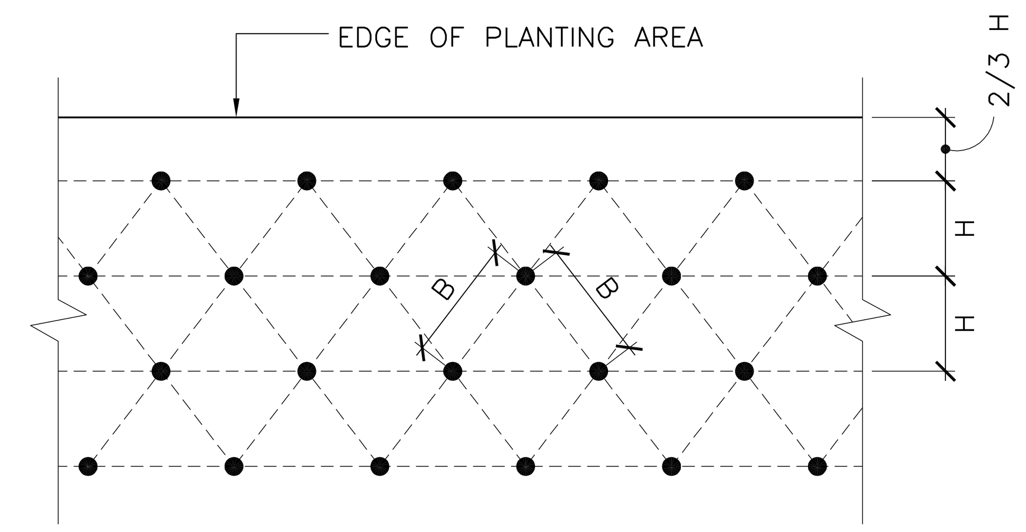
DRAWING NAME: O:\MAX\1401\Current\ACAD\Details\12_100p SIP PH01 BOARD SUBMITTAL\L07.XX PLANTING\L07.XX PLANTING.dwg (L07.02 PH01A)
PLOT TIME: 4-28-2017 10:04 AM PLOTTED BY: jugons

APPROVED SET FOR BOARD SUBMITTAL 05.01.17



3 TREE STAKING

SCALE: 1" = 1'-0" SECTION / PLAN

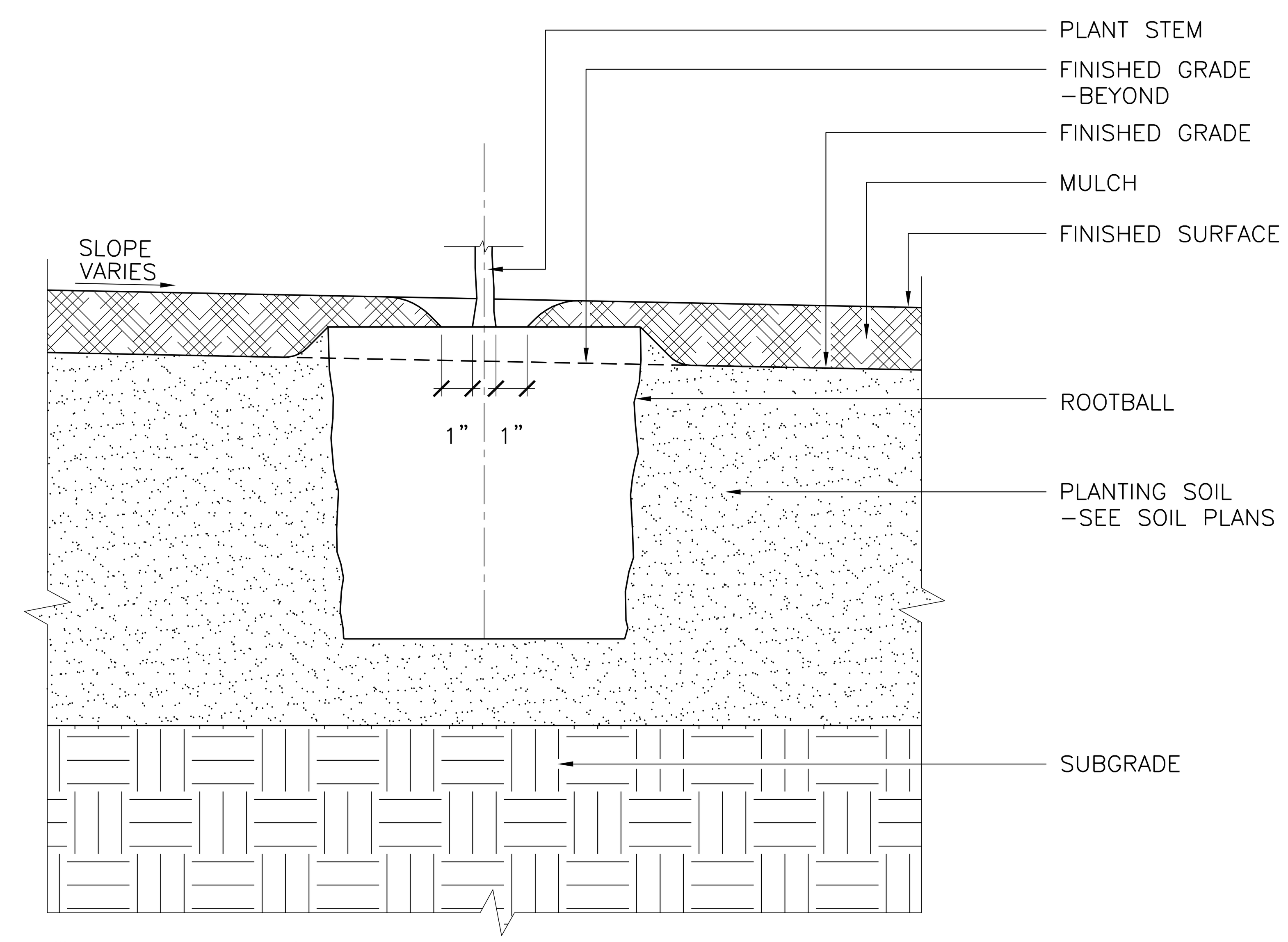


TRIANGULAR SPACING = B	DISTANCE BETWEEN ROWS = H	TOTAL AREA (SF) PER PLANT
6"	5"	0.21
8"	7"	0.39
9"	8"	0.50
10"	8 1/2"	0.59
12" (1'-0")	10 1/2"	0.88
15"	13"	1.35
18"	15 1/2"	1.94
21"	18"	2.63
24" (2'-0")	21"	3.50
30"	26"	5.42
36"	31"	7.80
48" (4'-0")	42"	13.84

NOTE:
SEE PLANTING PLAN, CENTERS OF PLANTS AS DRAWN TAKE PRECEDENCE OVER THIS DIAGRAM.

2 TRIANGULAR PLANT SPACING DIAGRAM

NTS TYPICAL PLAN



1 SHRUB PLANTING

SCALE: 3"=1'-0" 0 6" TYPICAL SECTION

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739 Allston Way
Berkeley, CA 94710
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PLANTING DETAILS
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Date: 05/01/17
Scale: AS NOTED
Design: LEAD
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Job No: MAX 1401

Drawing Number:
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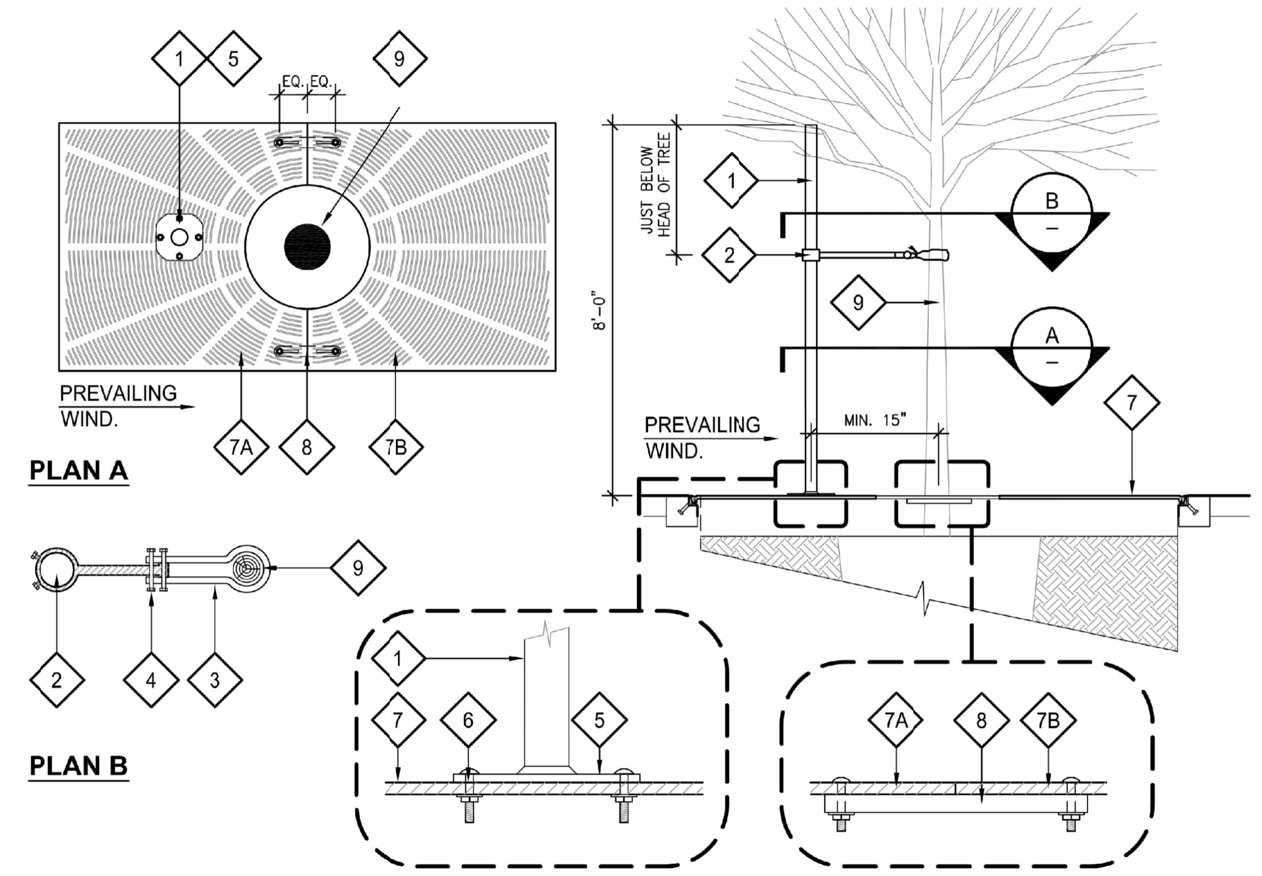


LEGEND

1. "MEGA GRATE STAKE".
   1 1/4" DIAMETER SCHEDULE 40 STEEL PIPE. POWDER-COATED BLACK.
2. STRAP BAR.
   3/8" X 14-1/2" FLAT BAR. SECURED WITH (2) SET BOLTS.
3. ADJUSTABLE VINYL STRAP.
   MINIMUM 3/8" X 1-1/4" X 24" 90 DURO FLEX PVC STRAP WITH UV INHIBITORS.
4. (2) 1/4" X 1-3/4" BOLTS, WASHERS AND NUTS.
5. STAKE PLATE.
6. SECURE TO GRATE WITH (4) 5/16" CARRIAGE BOLTS, WASHERS AND NUTS.
7. TREE GRATE.
   A. HALF 1
   B. HALF 2
8. STEEL STRAP. 6" x 1-1/5" x 3/8".
   SECURE TO BOTTOM SIDE OF TREE GRATE WITH (2) 5/16" CARRIAGE BOLTS, WASHERS AND NUTS.
9. TREE.

DETAIL IS FOR REFERENCE ONLY. SEE MANUFACTURER'S DETAILS AND SPECIFICATIONS. J.R. PARTNERS, 1616 FREEDOM COURT, TURLOCK,CA. 95382. (888) 333-3090

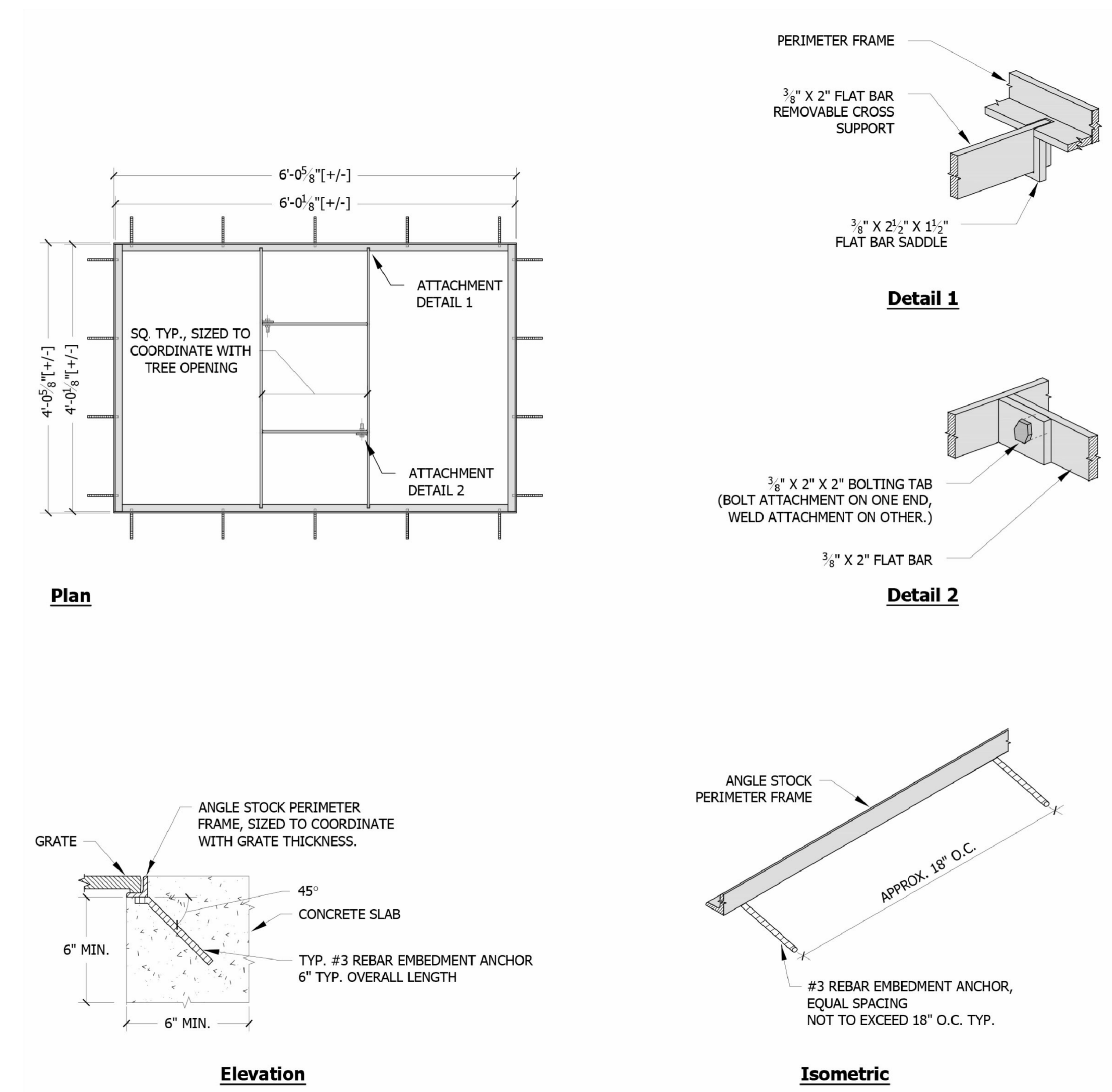
"MEGA GRATE STAKE" BY J.R. PARTNERS

SCALE: NTS

"MEGA GRATE STAKE" BY J.R. PARTNERS .dwg

2 GRATE STAKE

NOT TO SCALE



SPECIFICATIONS

- Frames are constructed of mild steel ASTM A36 (unless specified otherwise; see below).
  - **Material:**
  - ☒ Mild Steel ASTM A36 (standard)
  - ☐ Stainless Steel grade 304L
  - ☐ Architectural Bronze, ASTM B455
  - ☐ Structural Aluminum, ASTM B221
- Finish will be natural patina of raw steel (unless specified otherwise; see below).
  - **Finish:**
  - ☒ Raw (standard)
  - ☐ Polyester Powder Coat*
  - ☐ Liquid Coat (wet paint)*
    Color:
    *Please specify standard UA color or mfr. name and color code.
  - ☐ Galvanized
  - ☐ Other:
- Frame is load rated for pedestrian traffic only (unless specified otherwise; see below).
  - **Load Classifications:**
  - ☒ Pedestrian (standard)
  - ☐ Light Vehicular
  - ☐ H20/HS20
    (Additional steel support may be added for optional load classes. Please contact UA for revised cut sheet, as necessary.)
- Typical 1/8" horizontal gap between grate and frame. All visible welds to be ground smooth on outside edges. Frames will be true to square or diameter. Top of grate flush with grade of surrounding topping material (paver, concrete slab, etc.).
- **Dimensions are nominal.**

Comments:

Tree Grate Frame

4' x 6' Type "S"
Pedestrian Duty

Page: 1 of 1 Date: 5/22/12

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× 2

THE STAPLE

The ever-classic "Staple" style bike rack is Portland City Code approved. Lock it up!

CONSTRUCTION/ MATERIAL OPTIONS

- ☐ 2" Sch. 40 Round Steel Pipe (shown)
- ☐ 2" × 2" Square Steel Tubing (Pipecutter Proof)
- ☒ 5/8" x 2 1/2" Steel Flat Bar (Pipecutter Proof)
- Steel Flanges (Varies)

DIMENSIONS

- 30" Length
- 5.5" Width
- 36" Height
- ☐ Custom Size Height/Length

MOUNTING OPTIONS

- ☒ Flange Mount (Shown) (6) .63" Mounting Holes
- ☐ In-Ground 11" Leg Extensions

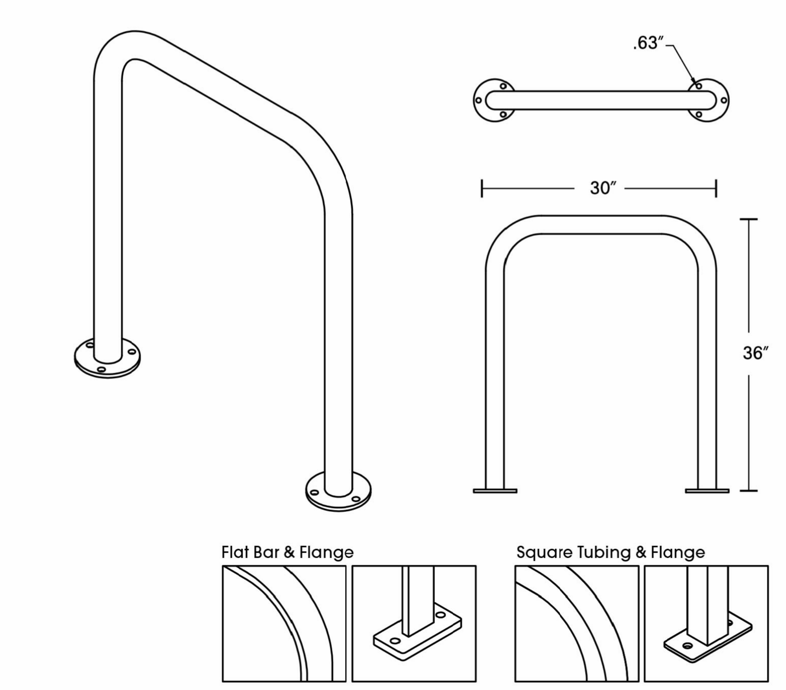
FINISH OPTIONS

- ☒ T304 Stainless Steel #4 Satin Finish
- ☐ Hot Dipped Galvanized
- ☐ Powder Coating #
- ☐ Thermoplastic Coating #

ADDITIONAL OPTIONS

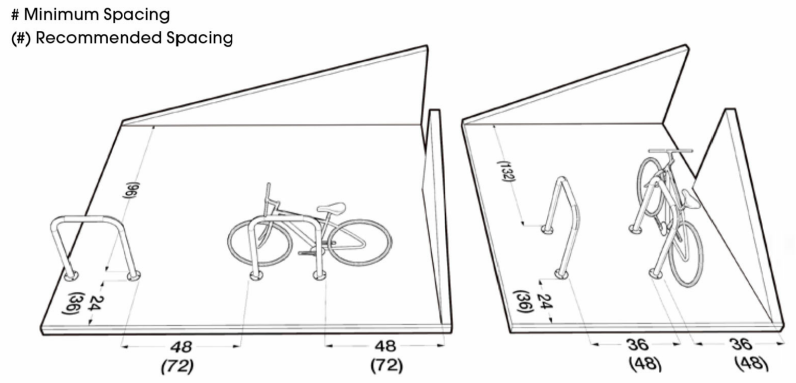
- ☐ Flange Cover (available at additional cost on round pipe only)

Manufactured in the Pacific Northwest



RECOMMENDED LAYOUT

NOTES:
"Bike" is 70"
Minimum Spacing
(#) Recommended Spacing



CONTRACTOR:

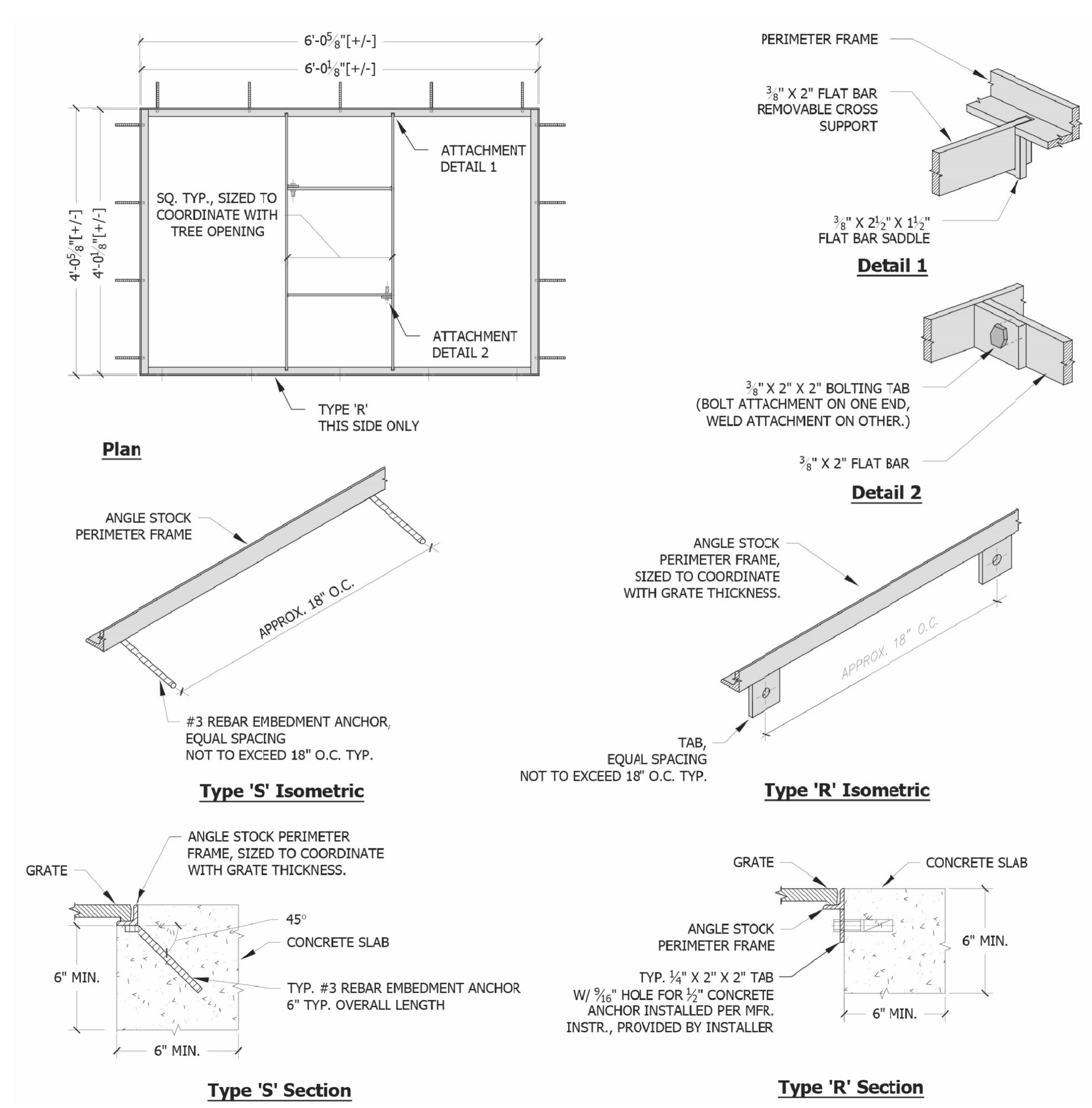
JOB:

NOTES:

NOTE:
SEE SHEETS L01.01 – L01.06 FOR LAYOUT

3 BIKE RACH

NOT TO SCALE



SPECIFICATIONS

- Frames are constructed of mild steel ASTM A36 (unless specified otherwise; see below).
  - **Material:**
  - ☒ Mild Steel ASTM A36 (standard)
  - ☐ Stainless Steel grade 304L
  - ☐ Architectural Bronze, ASTM B455
  - ☐ Structural Alumirum, ASTM B221
- Finish will be natural patina of raw steel (unless specified otherwise; see below).
  - **Finish:**
  - ☒ Raw (standard)
  - ☐ Polyester Powder Coat*
  - ☐ Liquid Coat (wet paint)*
    Color:
    *Please specify standard UA color or mfr. name and color code.
  - ☐ Galvanized
  - ☐ Other:
- Frame is load rated for pedestrian traffic only (unless specified otherwise; see below).
  - **Load Classifications:**
  - ☒ Pedestrian (standard)
  - ☐ Light Vehicular
  - ☐ H20/HS20
    (Additional steel support may be added for optional load classes. Please contact UA for revised cut sheet, as necessary.)
- Typical 1/8" horizontal gap between grate and frame. All visible welds to be ground smooth on outside edges. Frames will be true to square or diameter. Top of grate flush with grade of surrounding topping material (paver, concrete slab, etc.).
- **Dimensions are nominal.**

Comments:

Tree Grate Frame

4'x6' (3) Sides Type "S"
(1) Side Type 'R' Ped. Duty

Page: 1 of 1 Date: 10/22/15

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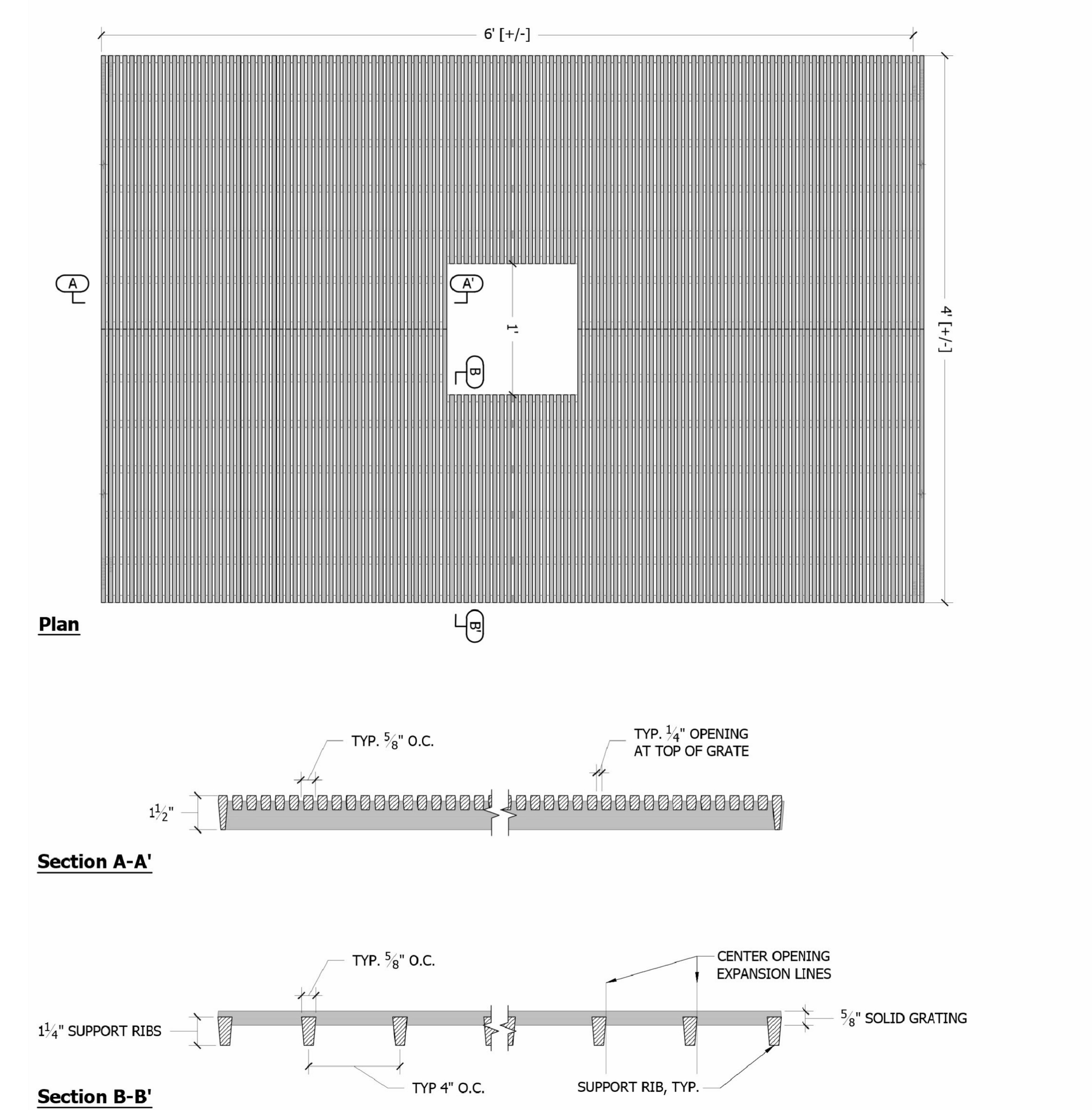

SPECIFICATIONS

- Material will be high quality 100% recycled grey iron; ASTM A48 class 35b or better; hardness 170-223 brinnell (unless specified otherwise; see below).
  - **Material:**
  - ☒ Grey iron ASTM A48 (standard)
  - ☐ Aluminum, ASTM B26
  - ☐ Ductile iron, (required for all load ratings higher than pedestrian) ASTM A536 class 65-45-12.
  - ☐ Nickel bronze (ASTM B30)
  - ☐ Bronze (ASTM B26)
- Finish will be natural patina of raw iron (unless specified otherwise; see below).
  - **Finish:**
  - ☒ Raw (standard)
  - ☐ Rust conditioner
  - ☐ Polyester Powder Coat*
  - ☐ Liquid Coat (wet paint)*
    Color:
    *Please specify standard UA color or mfr. name and color code.
  - ☐ Brush (bronze/nickel/aluminum only)
  - ☐ Polish (bronze/nickel/aluminum only)
  - ☐ Galvanized (grey iron and ductile iron only)
  - ☐ Other:
- **Dimensions are nominal.**

Notes
1) Cast in four pieces.
2) Grate is 1- ½" thick at edge.
3) Center opening expansions at 1'-2" and 1'-10" square.
4) No openings greater than $\frac{5}{16}$", in conformance with ADA Accessibility Guidelines.
5) Grate weighs 570 lbs.

Comments:

Tree Grate

4' x 6' Jamison

Page 1 of 1 Date: 2/25/13

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1 TREE GRATE

NOT TO SCALE

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510.849.9494

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PHASE 1A STREET IMPROVEMENT PLANS
FURNISHING DETAILS

SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

REGISTERED LANDSCAPE ARCHITECT
NOT FOR CONSTRUCTION
EXP. 06/30/2018

Date: 05/01/17	Scale: AS NOTED	Design: LEAD	Drawn: TEAM	Approved: LEAD	Job No: MAX 1401

No. | Revisions

Drawing Number:
L08.01

DRAWING NAME: O:\MAX\1401\Current\ACAD\Details\12_100p SIP PH01 BOARD SUBMITTAL\L08.XX FURNISHINGS\L08.XX FURNISHINGS.dwg (L08.01 PH01A)
PLOT TIME: 4-28-2017 10:07 AM PLOTTED BY: jrgans

APPROVED SET FOR BOARD SUBMITTAL 05.01.17

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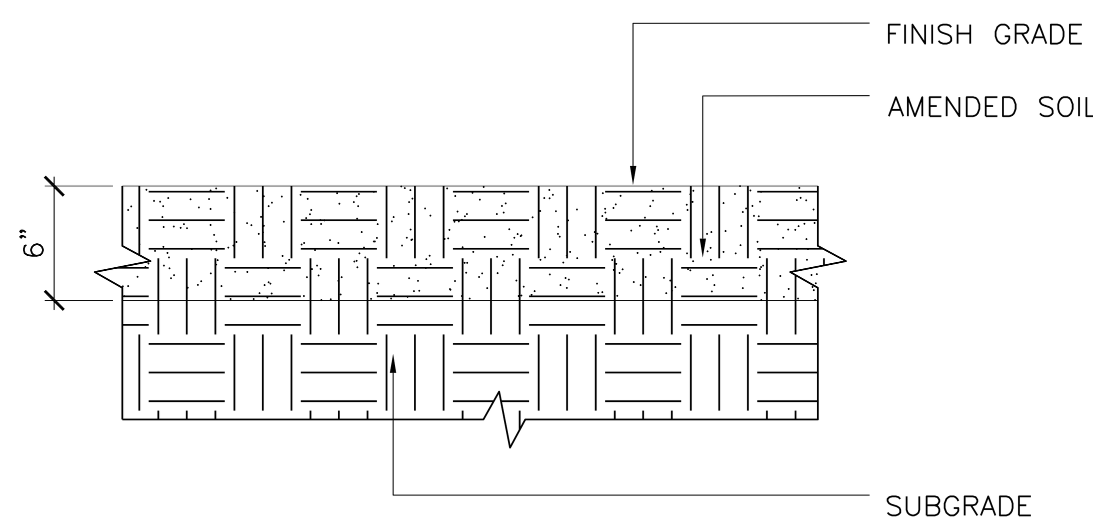
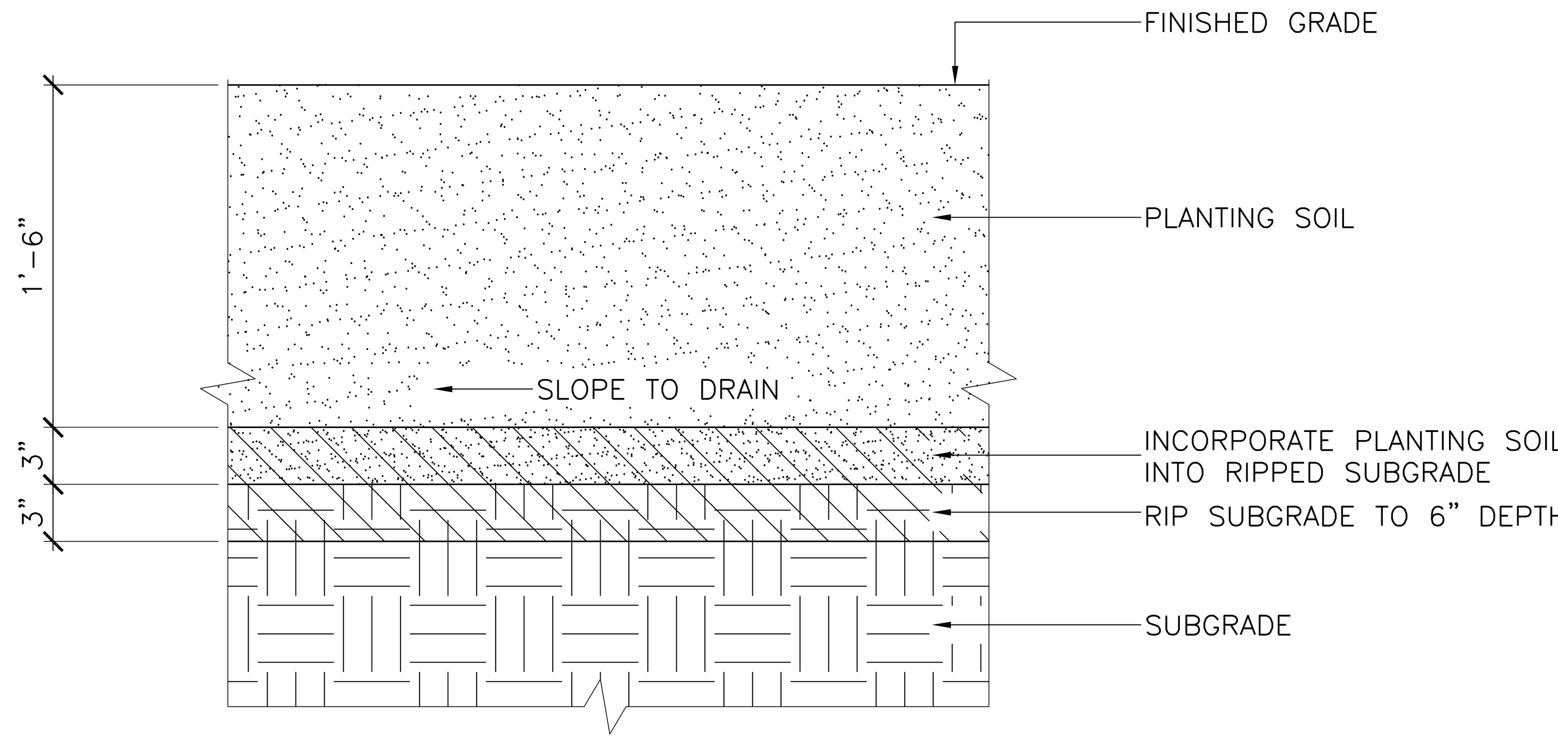
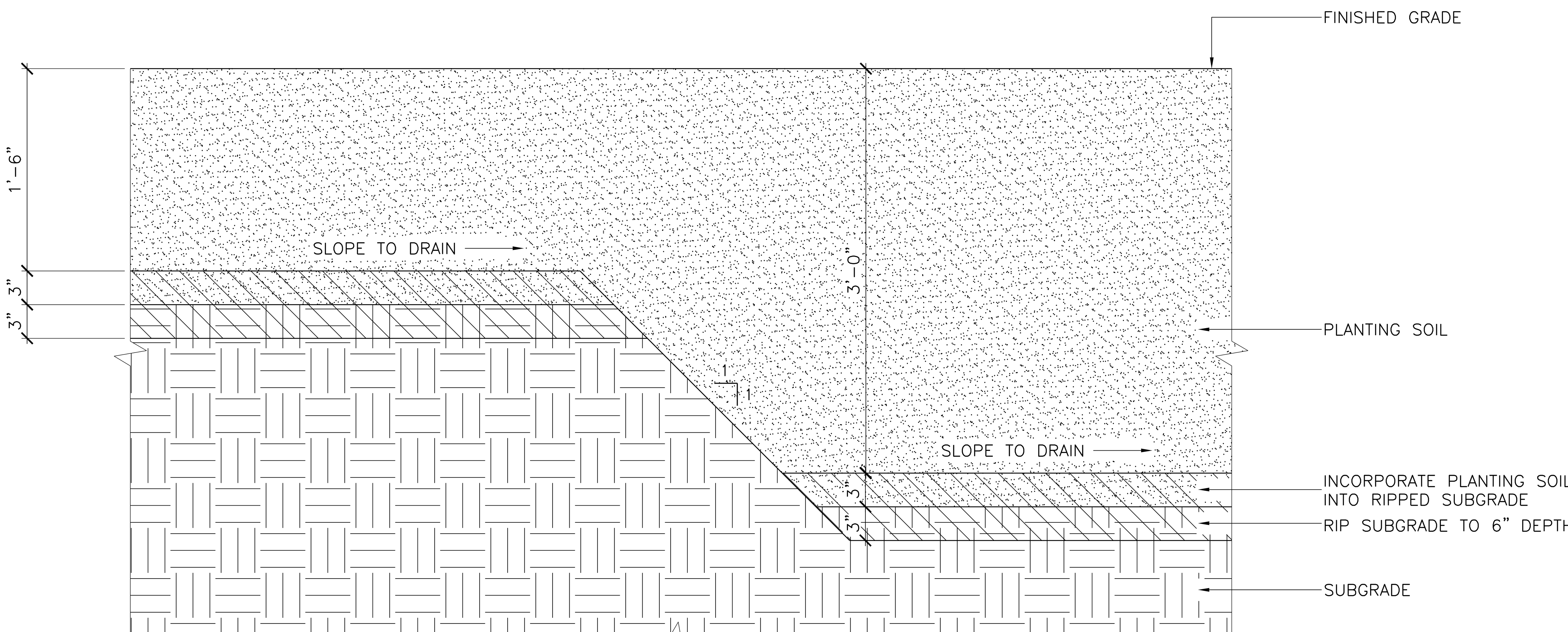


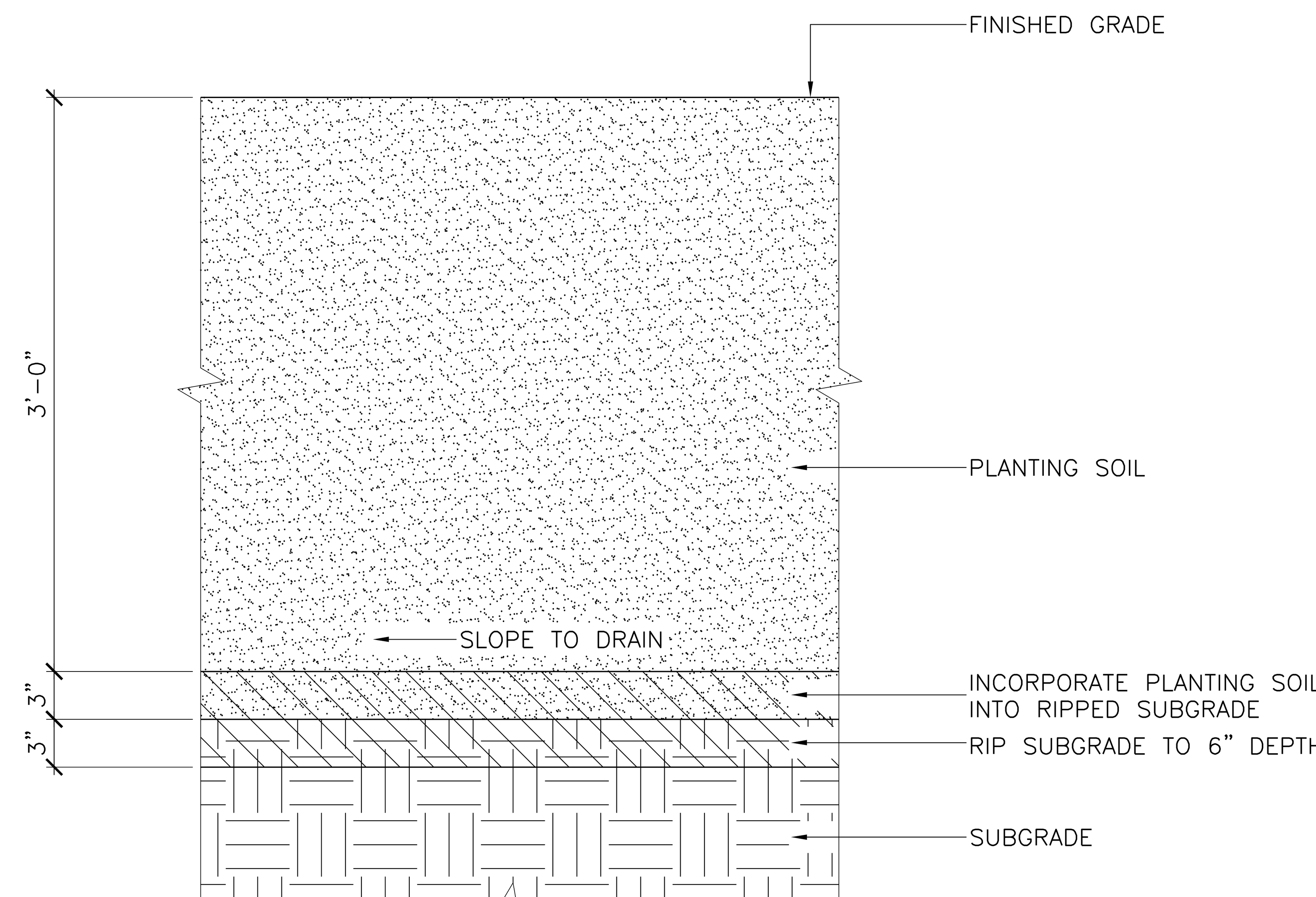
4 **AMEND IN PLACE SOIL**
SCALE: 1 1/2"=1'-0" 0 6" 1' TYPICAL SECTION



2 **18" PLANTING SOIL PROFILE**
SCALE: 1 1/2"=1'-0" 0 6" 1' TYPICAL SECTION



3 **TRANSITION BETWEEN 18" AND 36" PLANTING SOIL**
SCALE: 1 1/2"=1'-0" 0 6" 1' TYPICAL SECTION



1 **36" PLANTING SOIL PROFILE**
SCALE: 1 1/2"=1'-0" 0 6" 1' TYPICAL SECTION

NOTES:

1. REFER TO SHEETS L00.01-L00.02 FOR GENERAL NOTES AND LEGENDS

PWP LANDSCAPE ARCHITECTURE
739 Allston Way
Berkeley, CA 94710
510.849.9494

PARKMERCED
PHASE 1A STREET IMPROVEMENT PLANS
SOILS DETAILS
SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA

NOT FOR CONSTRUCTION

No.	Revisions

Date: 05/01/17
Scale: AS NOTED
Design: LEAD
Drawn: TEAM
Approved: LEAD
Job No: MAX 1401

Drawing Number:
L09.01

DRAWING NAME: O:\MAX\1401\Current\ACAD\Details\12_100p SIP PH01 BOARD SUBMITTAL\L09.XX SOILS\L09.XX SOILS.dwg (L09.01 PH01A)
PLOT TIME: 4-28-2017 10:08 AM PLOTTED BY: jugons

APPROVED SET FOR BOARD SUBMITTAL 05.01.17