ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

Project Title

Building Data:

BUILDING AREAS:
SEE SHEET G-006 FOR ALL BUILDINGS AREAS

TOTAL BUILDING AREA:	74,391
TYPE OF CONSTRUCTION:	VB
OCCUPANCY CLASSIFICATION:	B, S-2
AUTOMATIC FIRE SPRINKLERS:	YES
ZONING DISTRICT:	VC/BE

Site Data:

PROPERTY AREA: 264,445 SF = 6.07 A.

LOT COVERAGE:

BUILDING AREA -	74,391 SQ. F.T.
PARKING AREA -	83,987 SQ. F.T.
LANDSCAPE AREA -	45,811 SQ. F.T.
HARDSCAPE -	30,099 SQ. F.T.

Parking Data:

OFF STREET PARKING PER SB COUNTY TITLE 8, DEVELOPMENT CODE, CHAPTER 83.11, PARKING AND LOADING STANDARDS:

OFFICE, CLINIC, GENERAL OFFICE: 1 FOR EACH/ 250 SF OF GROSS LEASABLE AREA (GLA)
STORAGE: 1 FOR EACH 1,000 SF OF THE FIRST 40,000 SF

BUILDING AA: ADMINISTRATION - 14,828/250 = 74
BUILDING AB: MEDICAL CLINIC - 2,758/250 = 12
BUILDING AI:
SUPPORT- ANIMAL SERVICES 4,612/250 = 19
SUPPORT- STORAGE 4,284/1,000 = 5

ADOPTION DOG & CAT BUILDINGS PRIMARILY HOUSE ANIMALS, THEREFORE REQUIRED PARKING FOR STAFF ONLY: 1

BUILDING AC: MEDICAL DOG BUILDING - 5,934 FOR 40 DOGS = 3 STAFF = 3 SPACES
BUILDING AD: CAT BUILDING - 5,830 FOR 172 CATS = 3 STAFF = 3 SPACES
BUILDING AE-AH.1: ADOPTION DOG BUILDING – 5,824(5) = 29,120 FOR 200 DOGS; 3(5) = 15 STAFF = 15 SPACES
BUILDING AJ-AK: ADOPTION DOG BUILDING– 3,363(2) = 6,726 FOR 40 DOGS + 3 STAFF = 3 SPACES

PARKING REQUIRED :
74+12+19+5+3+3+15+3 = 134 REQUIRED
PARKING PROVIDED = 144

PARKING SCHEDULE

Parking Space Type	Total Number of Parking Spaces
Parking Space - ADA: Public 9' x 19' (8' Aisle)	2
Parking Space - ADA: Public 9' x 19' (8' Aisle) EVCS-Van	1
Parking Space - ADA: Public 9' x 19' (8' Aisle) Van	1
Parking Space - ADA: Staff 9' x 19' (5' Aisle)	1
Parking Space - ADA: Staff 9' x 19' (5' Aisle) EVCS	1
Parking Space - ADA: Staff 9' x 19' (8' Aisle) Van	1
Parking Space Parallel: Staff 9' x 28' - parallel	6
Parking Space: Public 9' x 19' - 90 deg	29
Parking Space: Public 9' x 19' - 90 deg EV Space	11
Parking Space: Public 9' x 19' - 90 deg EVCS	3
Parking Space: Staff 9' x 19' - 90 deg	73
Parking Space: Staff 9' x 19' - 90 deg EV Space	14
Parking Space: Staff 9' x 19' - 90 deg EVCS	1
Total: 144	

Code Data:

ALL CONSTRUCTION SHALL MEET THE MINIMUM REQUIREMENTS OF THE:
- 2022 CALIFORNIA BUILDING CODE, VOLUMES 1 AND 2
- 2022 CALIFORNIA PLUMBING CODE
- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA ENERGY CODE
- 2022 CALIFORNIA GREEN BUILDING CODE
- 2022 CALIFORNIA FIRE CODE
- 2022 CALIFORNIA REFERENCED STANDARDS CODE
- SAN BERNARDINO MUNICPAL CODE 1

General Notes:

1. QUANTITIES LISTED ON THESE DOCUMENTS ARE FOR AGENCY APPROVAL ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES FOR BIDDING PURPOSES.

Deferred Submittals:

1. FIRE ALARM AND FIRE SPRINKLER PLANS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION. THESE SYSTEMS SHALL BE DESIGNED TO MEET ALL REQUIREMENTS OF NFPA13 AND LOCAL JURISDICTION REQUIREMENTS.
2. DEFERRED SUBMITTALS SHALL BE REVIEWED BY ARCHITECT- OR ENGINEER-OF-RECORD PRIOR TO SUBMITTAL TO THE BUILDING OFFICIAL.
3. ALL FIRE SUPPRESSION PLANS TO BE SUBMITTED DIRECTLY TO SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT FOR REVIEW AND APPROVAL. ALL PLANS ARE REQUIRED TO BE SUBMITTED ELECTRONICALLY USING THE COUNTY'S EZOP ONLINE PERMITTING PORTAL.
4. CURTAIN WALL, STAIRS, AND SHADE SAIL STRUCTURE.

Legal Description (Lot Merger):

APN: 0252-161-10 & 0252-161-09

THAT PORTION OF LOT 101, OF MARYGOLD ACRES, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 19, PAGE 15 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF SAID LOT 101; THENCE EASTERLY ALONG THE NORTHERLY LINE OF SAID LOT, 111 FEET TO THE NORTHWEST CORNER OF THE LAND CONVEYED TO V. K. AUXIER, ET UX., BY DEED RECORDED DECEMBER 12, 1946, IN BOOK 1976, PAGE 257 OF OFFICIAL RECORDS; THENCE SOUTHERLY ALONG THE WESTERLY LINE OF SAID LAND TO A POINT IN THE NORTHERLY LINE OF PROPERTY CONVEYED TO THE STATE OF CALIFORNIA, BY DEED RECORDED MAY 23, 1945, IN BOOK 1791 OF OFFICIAL RECORDS, PAGE 29; THENCE WESTERLY ALONG THE NORTHERLY LINE OF SAID PROPERTY CONVEYED TO THE STATE OF CALIFORNIA TO THE WESTERLY LINE OF SAID LOT 101; THENCE NORTHERLY ALONG SAID WESTERLY LINE TO THE POINT BEGINNING.

TOGETHER WITH THAT PORTION OF LOT 102 OF SAID MARYGOLD ACRES.

EXCEPTING THEREFROM THE WEST 2 ACRES THEREOF.

ALSO EXCEPTING THEREFROM THAT PORTION CONVEYED TO THE STATE OF CALIFORNIA FOR THE PURPOSE OF A FREEWAY BY DEED RECORDED JANUARY 30, 1945 IN BOOK 1732 PAGE 220 OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM THE ENTIRE AREA, THAT PORTION CONVEYED TO THE STATE OF CALIFORNIA, BY GRANT DEED RECORDED APRIL19, 1982 AS INSTRUMENT NO. 82-074750OF OFFICIAL RECORDS.

SUBJECT TO ALL RESERVATIONS, RESTRICTIONS, EASEMENTS, OFFERS OF DEDICATION, RIGHTS AND RIGHT OF WAYS OF RECORD.

CONTAINING APPROXIMATELY 6.07 ACRES. 1

Project Information

Project Scope:

BASE SCOPE:
The San Bernardino County Animal Care Center consists of on-site and off-site development within and surrounding an approximately 6-acre site along Valley Boulevard east of Locust Avenue, west of Linden Avenue, and north of I-10 in the community of Bloomington in unincorporated San Bernardino County.The project consists of a two-story Administration Building, three Adoption Dog buildings each 5,824 SF, medical clinic, cat building, euthanasia/ freezer building, support building, and covered truck wash. Site improvements include but are not limited to parking areas, hardscape, landscape, generator enclosure, stormwater infrastructure, utility infrastructure, site walls and fencing. 1

ADDITIVE ALTERNATE NO. 1: 5,824 SF ADOPTION DOG BUILDING H
ADDITIVE ALTERNATE NO. 2: 5,824 SF ADOPTION DOG BUILDING H.1
ADDITIVE ALTERNATE NO. 3: 3,363 SF ADOPTION DOG BUILDING J
ADDITIVE ALTERNATE NO. 4: 3,363 SF ADOPTION DOG BUILDING K

Renderings

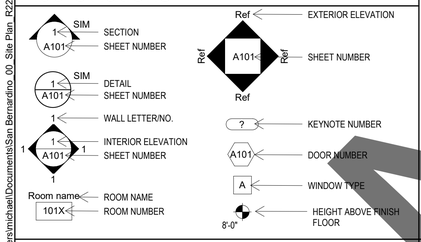
Vicinity Map

Location Map

Abbreviations

--A--		**--I--**		**--T--**	
AB	anchor bolt	ID	inside diameter	TEL	telephone
ABV	above	INCL	include(ing)	T&G	tongue & groove
AC	asphaltic concrete	INSUL	insulate(ion)	THK	thick(ness)
A/C	air conditioning	INT	interior	TOP	top of parapet
ADD	addendum	INV	invert	TOR	top of ridge
AGG	aggregate	JST	joist	TV	television
ALT	alternate	JT	joint	TYP	typical
ALUM	aluminum	KIT	kitchen		
APROX	approximate	KO	knockout	**--U--**	
ARCH	architect(ural)			UNO	unless noted otherwise
AUTO	automatic	**--L--**		UR	urinal
		LAB	laboratory		
--B--		LAM	laminate(d)	**--V--**	
BD	board	LAV	lavatory	VERT	vertical
BEL	below	LBL	label	VIN	vinyl
BET	between	LH	left hand		
BIT	bituminous	LL	live load	**--W--**	
BLDG	building	LT	light	W	west
BLK	block	LTL	lintel	W/	with
BLKG	blocking	LW	lightweight	W/O	without
BM	bench mark			WC	water closet
BOT	bottom	**--M--**		WD	wood
BRG	bearing	MAS	masonry	WH	water heater
BRZ	bronze	MAX	maximum	WI	wrought iron
BUR	built up roofing	MB	machine bolt	WIN	window
BW	both ways	MBR	member	WPT	working point
		MC	medicine cabinet	WR	water repellant
--C--		MECH	mechanic	WWF	welded wire fabric
CAB	cabinet	MED	medium		
CAD	cadmium	MET	metal		
CB	catch basin	MFR	manufacture(er)		
CEM	cement	MH	manhole		
CER	ceramic	MIN	minimum		
CFT	cubic foot	MIR	mirror		
CI	cast iron	MISC	miscellaneous		
CIR	circle	MLD	molding, moulding		
CIRC	circumference	MM	millimeter		
CLG	ceiling	MT	mount(ed, ing)		
CLL	contract limit line	MTL	material(s)		
CLR	clear(ance)				
CLS	closure	**--N--**			
CM	centimeter	N	north		
CMU	concrete masonry unit	NAT	natural		
COL	column	NIC	not in contract		
COMB	combination	NOM	nominal		
COMP	composition	NTS	not to scale		
CONC	concrete				
CONT	continuous/ continue	**--O--**			
CONTR	contract(or)	OA	overall		
CONST	construction	OBSC	obscure		
CORR	corrugated	OC	on center		
CPR	copper	OD	outside diameter		
CPT	carpet(ed)	OH	overhead		
CYD	cubic yard	OPG	opening		
		OPP	opposite		
--D--					
DEMO	demolish, demolition	**--P--**			
DH	double hung	PAR	parallel		
DIAG	diagonal	PB	panic bar		
DIAM	diameter	PCC	precast concrete		
DIM	dimension	PCF	pounds per cubic foot		
DIV	division	PED	pedestal		
DR	door	PERF	perforate(d)		
DS	downspout	PREFAB	prefabricate(d)		
DTL	detail	PFL	pounds per linear foot		
DWG	drawing	PIP	poured in place		
DWR	drawer	PL	property line		
		PLT	plate		
--E--		PLAS	plaster		
E	east	PLYWD	plywood		
EF	each face	PNL	panel		
ELEV	elevation	PNT	paint(ed)		
ELEC	electric(al)	PSF	pounds per square foot		
EMER	emergency	PSI	pounds per square inch		
ENC	enclosure	PT	point		
EP	electrical panelboard	PVC	polyvinyl chloride		
EQ	equal				
EQUIP	equipment	**--R--**			
EST	estimate	RA	return air		
EWC	electric water cooler	RAD	radius		
EXIST	existing	RCP	reinforced concrete pipe		
EXHST	exhaust	RD	roof drain		
EXP	exposed	REFR	refrigerator		
EXT	exterior	REG	register		
		REM	remove		
--F--		RET	return		
FA	fire alarm	RFG	roofing		
FD	floor drain	RH	right hand		
FE	fire extinguisher	RM	room		
FFE	finished floor elevation	RO	rough opening		
FFL	finished floor line	ROW	right of way		
FIN	finish(ed)				
FLR	floor(ing)	**--S--**			
FLUOR	fluorescent	S	south		
FND	foundation	SC	solid core		
FTG	footing	SCH	schedule		
		SD	storm drain		
--G--		SEC	section		
GA	gage, gauge	SH	shelf, shelving		
GI	galvanized iron	SHT	sheet		
GL	glass, glazing	SIM	similar		
GP	galvanized pipe	SPEC	specification(s)		
GYP.BD.	gypsum board	SPK	speaker		
GRD	grade, grading	SQ	square		
GSS	galvanized steel	SS	stainless steel		
GV	galvanized	ST	steel		
		STA	station		
--H--		STD	standard		
HB	hose bibb	STO	storage		
HC	hollow core	STR	structural		
HD	heavy duty	SUS	suspended		
HDR	header	SYM	symmetry(ical)		
HDW	hardware	SYS	system		
HGT	height				
HM	hollow metal				
HOR	horizontal				
HOV	height of valley				
HTG	heating				
HVAC	heating / ventilating air conditioning				
HWD	hardwood				

Symbols



PROJECT OWNER:

County of San Bernardino
385 N. Arrowhead Ave.,
3rd Floor
San Bernardino, CA 92415
CONTACT: Kenneth Hylin
PHONE: 909-387-5040
E-MAIL: Kenneth.Hylin@res.sbcounty.gov

ARCHITECT:

MILLER ARCHITECTURAL CORPORATION.
1177 IDAHO STREET, SUITE 200
REDLANDS, CA 92374
CONTACT: Sergio Pena
PHONE: 909-335-7400 EXT. 112
CELL: (909) 997-8054
FAX: 909-335-7299
E-MAIL: spena@MILLER-AIP.COM

ANIMAL SHELTER DESIGN CONSULTANT:

SHELTER PLANNERS OF AMERICA
1106 W. RANDOL MILL ROAD
SUITE 300
ARLINGTON, TX 76012
CONTACT: Michael Barnard
PHONE: (817) 265-8522
E-MAIL: mike@spoausa.com

CIVIL:

Joseph E. Bonadiman & Assoc. Inc.
234 N Arrowhead Avenue
San Bernardino, CA 92408-1721
CONTACT: J.T. Stanton
PHONE: (909) 885-3806 Ex 115
FAX: (909) 381-1721
E-MAIL: jts@Bonadiman.com

STRUCTURAL:

IMEG
555 S Flower Street, Suite 750
Los Angeles, CA 90071
CONTACT: Jeni Halembakova
PHONE: (310) 853-7196
CELL: (310) 702-0746
E-MAIL: jeni.p.halembakova@imegcorp.com

MECHANICAL

IMEG
901 Via Piemonte, Suite 400
Ontario, CA 91764
CONTACT: Andy Cloud
PHONE: (909) 477-6915
E-MAIL: Andrew.L.Cloud@imegcorp.com

ELECTRICAL

IMEG
901 Via Piemonte, Suite 400
Ontario, CA 91764
CONTACT: Nestor Ignacio
PHONE: (909) 942-5544
E-MAIL: Nestor.C.Ignacio@imegcorp.com

PLUMBING

IMEG
901 Via Piemonte, Suite 400
Ontario, CA 91764
CONTACT: Peter Sophoclis
PHONE: (909) 942-5553
E-MAIL: Peter.F.Sophpclis@imegcorp.com

LANDSCAPE ARCHITECT:

STB LANDSCAPE ARCHITECTS, INC.
15 SOUTH 5TH STREET
REDLANDS, CA 92373
CONTACT: SHAWN BURCH
PHONE: 909-798-7490
FAX: 909-307-8235
E-MAIL: shawn@stblandarch.com

TECHNOLOGY:

IMEG
901 Via Piemonte, Suite 400
Ontario, CA 91764
CONTACT: Jordan Dolzadelli
PHONE: (909) 942-5586
E-MAIL: jordan.m.dolzadelli@imegcorp.com

Directory

MILLER
architecture
interiors
planning

"Shelter Planners of America"

1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT
GARY W. MILLER
No. C 14635
REN. 9-30-25
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment
1	2/24	PCC Response #1

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	2200065
Drawn By:	SP
Checked By:	GWM
Issue Date:	6/12/2024

sheet name

TITLE SHEET

sheet number

G-001

Sheet Of Sheets

SHEET INDEX

SHEET #	SHEET NAME	DISCIPLINE
GENERAL		
G-001	TITLE SHEET	GENERAL
G-002	SHEET INDEX	GENERAL
G-003	CAL GREEN SHEET 1	GENERAL
G-004	CAL GREEN SHEET 2	GENERAL
G-005	CAL GREEN SHEET 3	GENERAL
G-006	CODE ANALYSIS/ FIRE MASTER PLAN	GENERAL
G-007A	1ST FLOOR CODE ANALYSIS BLDG AA	GENERAL
G-007B	2ND FLOOR CODE ANALYSIS BLDG AA	GENERAL
G-008	CODE ANALYSIS BLDG AB & AC	GENERAL
G-009	CODE ANALYSIS BLDG. AD	GENERAL
G-010	CODE ANALYSIS BLDG'S AE-AH.1	GENERAL
G-011	CODE ANALYSIS BLDG AI	GENERAL
G-012	CODE ANALYSIS BLDG'S AJ & AK	GENERAL
G-501	ADA DETAILS	GENERAL
CIVIL		
1 OF 1	TOPOGRAPHIC MAP	CIVIL
1 OF 2	STREET IMPROVEMENT PLAN TITLE SHEET	CIVIL
2 OF 2	STREET IMPROVEMENT PLAN & PROFILE	CIVIL
1 OF 3	SEWER PLAN TITLE SHEET	CIVIL
2 OF 3	SEWER PLAN & PROFILE	CIVIL
3 OF 3	SEWER PLAN DETAILS	CIVIL
1 OF 14	GRADING PLAN TITLE SHEET	CIVIL
2 OF 14	GRADING PLAN DETAILS	CIVIL
3 OF 14	GRADING PLAN	CIVIL
4 OF 14	GRADING PLAN	CIVIL
5 OF 14	GRADING PLAN COMPOSITE UTILITY PLAN	CIVIL
6 OF 14	GRADING PLAN SD PLAN & PROFILE	CIVIL
7 OF 14	GRADING PLAN SD PLAN & PROFILE	CIVIL
8 OF 14	GRADING PLAN SD PLAN & PROFILE	CIVIL
9 OF 14	GRADING PLAN SD PLAN & PROFILE	CIVIL
10 OF 14	GRADING PLAN DETAILS	CIVIL
11 OF 14	GRADING PLAN DETAILS	CIVIL
12 OF 14	GRADING PLAN DETAILS	CIVIL
13 OF 14	GRADING PLAN EROSION CONTROL	CIVIL
14 OF 14	GRADING PLAN EROSION CONTROL	CIVIL
1 OF 7	WALL PLAN TITLE SHEET	CIVIL
2 OF 7	WALL PLAN DETAILS	CIVIL
3 OF 7	WALL PLAN DETAILS	CIVIL
4 OF 7	WALL PLAN SPECIAL INSPECTION	CIVIL
5 OF 7	WALL PLAN & PROFILE	CIVIL
6 OF 7	WALL PLAN & PROFILE	CIVIL
8 OF 8	WALL PLAN & PROFILE	CIVIL
LANDSCAPING		
T-1	TITLE SHEET	LANDSCAPING
CL-1	LANDSCAPE CONSTRUCTION PLAN	LANDSCAPING
CL-2	LANDSCAPE CONSTRUCTION PLAN	LANDSCAPING
CD-1	LANDSCAPE CONSTRUCTION DETAILS	LANDSCAPING
LI-1	IRRIGATION PLAN	LANDSCAPING
LI-2	IRRIGATION PLAN	LANDSCAPING
LID-1	IRRIGATION DETAILS	LANDSCAPING
LP-1	PLANTING PLAN	LANDSCAPING
LP-2	PLANTING PLAN	LANDSCAPING
LPD-1	PLANTING DETAILS & WATER USE CALCS	LANDSCAPING
LIS-1	IRRIGATION SPECIFICATIONS	LANDSCAPING
LPS-1	PLANTING SPECIFICATIONS	LANDSCAPING
ARCHITECTURAL		
AS-100	SITE PLAN- BID ALTERNATES	ARCHITECTURAL
AS-101	SITE PLAN - ANNOTATED	ARCHITECTURAL
AS-102	SITE PLAN - DIMENSIONED	ARCHITECTURAL
AS-103	ENLARGED SITE PLAN	ARCHITECTURAL
AS-104	ENLARGED SITE PLAN	ARCHITECTURAL
AS-105	TRASH ENCLOSURE DETAILS	ARCHITECTURAL
AS-106	ENLARGED SITE PLAN	ARCHITECTURAL
AS-107	ENLARGED SITE PLAN	ARCHITECTURAL
AS-108	ENLARGED SITE PLAN	ARCHITECTURAL
AS-501	SITE DETAILS	ARCHITECTURAL
AS-502	SITE DETAILS	ARCHITECTURAL
AA100	BUILDING AA LAYOUT PLAN	ARCHITECTURAL
AA101	ADMINISTRATION 1ST FLOOR DIMENSION PLAN	ARCHITECTURAL
AA101.2	ADMINISTRATION 1ST FLOOR ANNOTATION PLAN	ARCHITECTURAL
AA102	ADMINISTRATION 2ND FLOOR DIMENSION PLAN	ARCHITECTURAL
AA102.2	ADMINISTRATION 2ND FLOOR ANNOTATION PLAN	ARCHITECTURAL
AA103	ADMINISTRATION 1ST FLOOR REFLECTED CEILING PLAN	ARCHITECTURAL
AA104	ADMINISTRATION 2ND FLOOR REFLECTED CEILING PLAN	ARCHITECTURAL
AA105	ADMINISTRATION ROOF PLAN	ARCHITECTURAL
AA201	ADMINISTRATION ELEVATIONS	ARCHITECTURAL
AA301	ADMINISTRATION BUILDING SECTIONS	ARCHITECTURAL
AA302	ADMINISTRATION BUILDING SECTIONS	ARCHITECTURAL
AA303	ADMINISTRATION BUILDING SECTIONS	ARCHITECTURAL
AA304	ADMINISTRATION WALL SECTIONS	ARCHITECTURAL
AA305	WALL SECITONS	ARCHITECTURAL
AA306	WALL SECTIONS	ARCHITECTURAL
AA307	WALL SECTIONS	ARCHITECTURAL
AA308	WALL SECTIONS	ARCHITECTURAL
AA309	WALL SECTIONS	ARCHITECTURAL
AA310	WALL SECTIONS	ARCHITECTURAL
AA311	WALL SECTIONS	ARCHITECTURAL
AA401	ENLARGED PUBLIC RESTROOM PLAN	ARCHITECTURAL
AA402	ENLARGED STAFF RESTROOM & BREAKROOM	ARCHITECTURAL
AA403	ENLARGED LOBBY PLAN	ARCHITECTURAL
AA404	CANOPY PLAN	ARCHITECTURAL
AA405	ENLARGED STAIR PLAN	ARCHITECTURAL
AA406	ELEVATOR PLAN	ARCHITECTURAL
AA407	ADMINISTRATION BUILDING INTERIOR ELEVATIONS	ARCHITECTURAL
AA601	DOOR SCHEDULE	ARCHITECTURAL
AA602	WINDOW SCHEDULE	ARCHITECTURAL
AA603	FINISH SCHEDULE	ARCHITECTURAL
AB100	BUILDING AB LAYOUT FLOOR PLAN	ARCHITECTURAL
AB101	MEDICAL & DOG CLINIC DIMENSION FLOOR PLAN	ARCHITECTURAL
AB102	MEDICAL & DOG CLINIC ANNOTATION FLOOR PLAN	ARCHITECTURAL
AB103	MEDICAL & DOG CLINIC REFLECTED CEILING PLAN	ARCHITECTURAL
AB105	MEDICAL CLINIC AND DOG CLINIC- ROOF PLAN	ARCHITECTURAL
AB201	MEDICAL & DOG CLINIC ELEVATIONS	ARCHITECTURAL
AB202	MEDICAL DOG ELEVATIONS	ARCHITECTURAL
AB301	MEDICAL & DOG CLINIC BUILDING SECTIONS	ARCHITECTURAL
AB302	WALL SECTIONS	ARCHITECTURAL
AB303	WALL SECTIONS	ARCHITECTURAL
AB304	WALL SECTIONS	ARCHITECTURAL
AB305	WALL SECTIONS	ARCHITECTURAL
AB306	WALL SECTIONS	ARCHITECTURAL
AB307	WALL SECTIONS	ARCHITECTURAL
AB308	WALL SECTIONS	ARCHITECTURAL
AB401	ENLARGED STAFF RESTROOM PLAN	ARCHITECTURAL
AB501	DETAILS	ARCHITECTURAL
AB601	DOOR & WINDOW SCHEDULES	ARCHITECTURAL
AB602	DOOR SCHEDULE	ARCHITECTURAL
AB603	FINISH SCHEDULE	ARCHITECTURAL
AD100	CAT BUILDING LAYOUT PLAN	ARCHITECTURAL

SHEET INDEX

SHEET #	SHEET NAME	DISCIPLINE
AD101	CAT BUILDING DIMENSION FLOOR PLAN	ARCHITECTURAL
AD102	CAT BUILDING ANNOTATION FLOOR PLAN	ARCHITECTURAL
AD103	CAT BUILDING REFLECTED CEILING PLAN	ARCHITECTURAL
AD105	CAT BUILDING ROOF PLAN	ARCHITECTURAL
AD201	CAT BUILDING EXTERIOR ELEVATIONS	ARCHITECTURAL
AD301	CAT BUILDING SECTIONS	ARCHITECTURAL
AD303	CAT BUILDING WALL SECTIONS	ARCHITECTURAL
AD401	CAT AND OTHER ENLARGED PLANS	ARCHITECTURAL
AD601	DOOR AND WINDOW SCHEDULE	ARCHITECTURAL
AE100	AE - AH.1 LAYOUT PLAN	ARCHITECTURAL
AE101	ADOPTION DOG AE-AH DIMENSION FLOOR PLAN	ARCHITECTURAL
AE102	ADOPTION DOG AE-AH ANNOTATION FLOOR PLAN	ARCHITECTURAL
AE103	ADOPTION DOG AE-AH REFLECTED CEILING PLAN	ARCHITECTURAL
AE105	ADOPTION DOG AE-AH ROOF PLAN	ARCHITECTURAL
AE201	ADOPTION DOG AE-A ELEVATIONS	ARCHITECTURAL
AE301	ADOPTION DOG AE-AH BUILDING SECTIONS	ARCHITECTURAL
AE302	WALL SECTIONS	ARCHITECTURAL
AE303	ADOPTION DOG WALL SECTIONS	ARCHITECTURAL
AE601	WINDOW/ DOOR SCHEDULES	ARCHITECTURAL
AE602	FINISH SCHEDULE	ARCHITECTURAL
AI100	SUPPORT LAYOUT PLAN	ARCHITECTURAL
AI101	SUPPORT BUILDING DIMENSION FLOOR PLAN	ARCHITECTURAL
AI102	SUPPORT BUILDING ANNOTATION PLAN	ARCHITECTURAL
AI103	SUPPORT BUILDING REFLECTED CEILING PLAN	ARCHITECTURAL
AI105	SUPPORT BUILDING ROOF PLAN	ARCHITECTURAL
AI201	SUPPORT BUILDING EXTERIOR ELEVATIONS	ARCHITECTURAL
AI301	SUPPORT BUILDING SECTIONS	ARCHITECTURAL
AI303	SUPPORT BUILDING WALL SECTIONS	ARCHITECTURAL
AI304	WALL SECTIONS	ARCHITECTURAL
AI401	ENLARGED PLANS / INTERIOR ELEVATIONS	ARCHITECTURAL
AI402	ENLARGED PLANS / INTERIOR ELEVATIONS	ARCHITECTURAL
AI601	DOOR / WINDOW SCHEDULES	ARCHITECTURAL
AI602	FINISH SCHEDULE	ARCHITECTURAL
AJ100	ADOPTION DOG LAYOUT PLAN	ARCHITECTURAL
AJ101	ADOPTION DOG J&K DIMENSION FLOOR PLAN	ARCHITECTURAL
AJ102	ADOPTION DOG J&K ANNOTATION FLOOR PLAN	ARCHITECTURAL
AJ103	ADOPTION DOG J&K RCP	ARCHITECTURAL
AJ105	ADOPTION DOG J&K ROOF PLAN	ARCHITECTURAL
AJ201	ADOPTION DOG J&K ELEVATIONS	ARCHITECTURAL
AJ301	ADOPTION DOG J&K BUILDING SECTIONS	ARCHITECTURAL
AJ303	ADOPTION DOG J&K WALL SECTIONS	ARCHITECTURAL
AJ601	ADOPTION DOG J&K DOOR / WINDOW SCHEDULES	ARCHITECTURAL
A-501	DETAILS	ARCHITECTURAL
A-502	DETAILS	ARCHITECTURAL
A-503	DETAILS	ARCHITECTURAL
A-504	DETAILS	ARCHITECTURAL
A-505	DETAILS	ARCHITECTURAL
STRUCTURAL		
S-101	GENERAL NOTES	STRUCTURAL
S-102	GENERAL NOTES	STRUCTURAL
S-103	LOADING DIAGRAMS	STRUCTURAL
SS-200	SITE PLAN	STRUCTURAL
SA-201	ADMINISTRATION BUILDING FOUNDATION PLAN	STRUCTURAL
SA-202	ADMINISTRATION BUILDING STRUCTURAL SECOND FLOOR CEILING PLAN	STRUCTURAL
SA-203	ADMINISTRATION BUILDING STRUCTURAL SECOND FLOOR FRAMING ROOF PLAN	STRUCTURAL
SA-204	ADMINISTRATION BUILDING ROOF CEILING PLAN	STRUCTURAL
SA-205	ADMINISTRATION BUILDING ROOF FRAMING PLAN	STRUCTURAL
SA-206	ADMINISTRATION BUILDING SECTIONS	STRUCTURAL
SA-207	ADMINISTRATION BUILDING SECTIONS	STRUCTURAL
SA-208	ADMINISTRATION BUILDING MOMENT FRAME ELEVATIONS	STRUCTURAL
SBC-201	MEDICAL CLINIC STRUCTURAL FOUNDATION PLAN	STRUCTURAL
SBC-202	MEDICAL CLINIC STRUCTURAL CEILING PLAN	STRUCTURAL
SBC-203	MEDICAL CLINIC STRUCTURAL ROOF PLAN	STRUCTURAL
SBC-204	MEDICAL CLINIC BUILDING SECTIONS	STRUCTURAL
SBC-205	MEDICAL CLINIC WALL ELEVATIONS	STRUCTURAL
SBC-206	MEDICAL CLINIC WALL ELEVATIONS	STRUCTURAL
SD-201	CAT BUILDING FOUNDATION PLAN	STRUCTURAL
SD-202	CAT BUILDING CEILING PLAN	STRUCTURAL
SD-203	CAT BUILDING ROOF PLAN	STRUCTURAL
SD-204	CAT BUILDING SECTIONS	STRUCTURAL
SE-201	ADOPTION DOG BUILDING FOUNDATION PLAN	STRUCTURAL
SE-202	ADOPTION DOG BUILDING CEILING PLAN	STRUCTURAL
SE-203	ADOPTION DOG BUILDING ROOF PLAN	STRUCTURAL
SE-204	ADOPTION DOG BUILDING ELEVATIONS	STRUCTURAL
SE-205	ADOPTION DOG BUILDING WALL ELEVATIONS	STRUCTURAL
SE-206	ADOPTION DOG BUILDING WALL ELEVATIONS	STRUCTURAL
SI-201	SUPPORT BUILDING STRUCTURAL FLOOR PLAN	STRUCTURAL
SI-202	SUPPORT BUILDING CEILING PLAN PLAN	STRUCTURAL
SI-203	SUPPORT BUILDING ROOF PLAN	STRUCTURAL
SI-204	SUPPORT BUILDING SECTIONS	STRUCTURAL
SJ-201	ADOPTION DOG BUILDING FOUNDATION PLAN	STRUCTURAL
SJ-202	ADOPTION DOG BUILDING CEILING PLAN	STRUCTURAL
SJ-203	ADOPTION DOG BUILDING ROOF PLAN	STRUCTURAL
SJ-204	ADOPTION DOG BUILDING WALL ELEVATIONS	STRUCTURAL
SJ-205	ADOPTION DOG BUILDING WALL ELEVATIONS AND SECTIONS	STRUCTURAL
SS-201	TRASH ENCOLSURE	STRUCTURAL
SS-202	TRUCK WASH	STRUCTURAL
S-300	TYPICAL CONCRETE DETAILS	STRUCTURAL
S-301	TYPICAL CONCRETE DETAILS	STRUCTURAL
S-302	TYPICAL CONCRETE DETAILS	STRUCTURAL
S-303	TYPICAL CONCRETE DETAILS	STRUCTURAL
S-304	TYPICAL CONCRETE DETAILS	STRUCTURAL
S-400	TYPICAL CMU DETAILS	STRUCTURAL
S-500	TYPICAL STEEL DETAILS	STRUCTURAL
S-501	TYPICAL STEEL DETAILS	STRUCTURAL
S-502	TYPICAL STEEL DETAILS	STRUCTURAL
S-503	TYPICAL STEEL DETAILS	STRUCTURAL
S-504	TYPICAL STEEL DETAILS	STRUCTURAL
S-505	TYPICAL STEEL DETAILS	STRUCTURAL
S-700	TYPICAL EXTERIOR METAL STUD DETAILS	STRUCTURAL
S-701	TYPICAL EXTERIOR METAL STUD DETAILS	STRUCTURAL
S-702	TYPICAL INTERIOR METAL STUD DETAILS	STRUCTURAL
S-703	TYPICAL INTERIOR METAL STUD DETAILS	STRUCTURAL
S-704	TYPICAL METAL STUD DETAILS	STRUCTURAL
S-705	TYPICAL METAL STUD DETAILS	STRUCTURAL
S-706	TYPICAL METAL STUD SHEAR WALL DETAILS	STRUCTURAL
S-707	TYPICAL METAL STUD DETAILS	STRUCTURAL
S-708	TYPICAL METAL STUD DETAILS	STRUCTURAL
S-709	TYPICAL METAL STUD DETAILS	STRUCTURAL
S-710	TYPICAL METAL STUD DETAILS	STRUCTURAL
S-711	TYPICAL FRAMING DETAILS	STRUCTURAL
S-800	EQUIPMENT ANCHORAGE DETAILS	STRUCTURAL
MECHANICAL		
M-100	MECHANICAL COVERSHEET	MECHANICAL
M-101	SCHEDULES	MECHANICAL
M-102	SCHEDULES	MECHANICAL
M-103	TITLE 24 DOCUMENTATION	MECHANICAL
M-104	TITLE 24 DOCUMENTATION	MECHANICAL
M-105	TITLE 24 DOCUMENTATION	MECHANICAL

SHEET INDEX

SHEET #	SHEET NAME	DISCIPLINE
M-106	TITLE 24 DOCUMENTATION	MECHANICAL
M-107	TITLE 24 DOCUMENTATION	MECHANICAL
M-108	TITLE 24 DOCUMENTATION	MECHANICAL
M-109	TITLE 24 DOCUMENTATION	MECHANICAL
M-110	TITLE 24 DOCUMENTATION	MECHANICAL
M-111	TITLE 24 DOCUMENTATION	MECHANICAL
MS-101	MECHANICAL SITE PLAN	MECHANICAL
MA-101	ADMINISTRATION BUILDING MECHANICAL FIRST FLOOR PLAN	MECHANICAL
MA-102	ADMINISTRATION BUILDING MECHANICAL SECOND FLOOR PLAN	MECHANICAL
MA-103	ADMINISTRATION BUILDING MECHANICAL ROOF PLAN	MECHANICAL
MA-105	ADMINISTRATION BUILDING MECHANICAL ISOMETRIC VIEWS	MECHANICAL
MBC-101	MEDICAL CLINIC MECHANICAL FLOOR PLAN	MECHANICAL
MBC-102	MEDICAL CLINIC MECHANICAL ROOF PLAN	MECHANICAL
MBC-103	MEDICAL CLINIC MECHANICAL ISOMETRIC VIEWS	MECHANICAL
MD-101	CAT & OTHER ANIMALS BUILDING MECHANICAL FLOOR PLAN	MECHANICAL
MD-102	CAT & OTHER ANIMALS BUILDING MECHANICAL ROOF PLAN	MECHANICAL
ME-101	ADOPTION DOG BUILDING 1 MECHANICAL FLOOR PLAN	MECHANICAL
ME-102	ADOPTION DOG BUILDING 1 MECHANICAL ROOF PLAN	MECHANICAL
ME-103	ADOPTION DOG BUILDING ISOMETRIC VIEWS	MECHANICAL
MF-101	ADOPTION DOG BUILDING 2 MECHANICAL FLOOR PLAN	MECHANICAL
MF-102	ADOPTION DOG BUILDING 2 MECHANICAL ROOF PLAN	MECHANICAL
MG-101	ADOPTION DOG BUILDING 3 MECHANICAL FLOOR PLAN	MECHANICAL
MG-102	ADOPTION DOG BUILDING 3 MECHANICAL ROOF PLAN	MECHANICAL
MH-101	STRAY DOG BUILDING MECHANICAL FLOOR PLAN	MECHANICAL
MH-102	STRAY DOG BUILDING MECHANICAL ROOF PLAN	MECHANICAL
MH.1-101	ADOPTION DOG BUILDING 4 MECHANICAL FLOOR PLAN	MECHANICAL
MH.1-102	ADOPTION DOG BUILDING 4 MECHANICAL ROOF PLAN	MECHANICAL
MI-101	SUPPORT BUILDING MECHANICAL FLOOR PLAN	MECHANICAL
MI-102	SUPPORT BUILDING ISOMETRIC VIEWS	MECHANICAL
MJ-101	ADOPTION DOG BUILDING 5 MECHANICAL FLOOR PLAN	MECHANICAL
MJ-102	ADOPTION DOG BUILDING 5 MECHANICAL ROOF PLAN	MECHANICAL
MK-101	ADOPTION DOG BUILDING 6 MECHANICAL FLOOR PLAN	MECHANICAL
MK-102	ADOPTION DOG BUILDING 6 MECHANICAL ROOF PLAN	MECHANICAL
M-201	MECHANICAL DETAILS	MECHANICAL
M-202	MECHANICAL DETAILS	MECHANICAL
M-203	WIRING DIAGRAMS	MECHANICAL
M-204	MECHANICAL DETAILS	MECHANICAL
M-205	WIRING DIAGRAMS	MECHANICAL
M-300	CONTROLS	MECHANICAL
M-301	CONTROLS	MECHANICAL
ELECTRICAL		
E-100	ELECTRICAL COVERSHEET	ELECTRICAL
E-101	SINGLE LINE DIAGRAM	ELECTRICAL
E-102	SINGLE LINE DIAGRAM (CONT'D)	ELECTRICAL
E-104	LUMINAIRE SCHEDULE	ELECTRICAL
E-105	ELECTRICAL SCHEDULES	ELECTRICAL
E-106	ELECTRICAL SCHEDULES	ELECTRICAL
E-107	ELECTRICAL SCHEDULES	ELECTRICAL
E-109	ELECTRICAL SCHEDULES	ELECTRICAL
E-110	ELECTRICAL SCHEDULES	ELECTRICAL
E-111	ELECTRICAL EVC SCHEDULES	ELECTRICAL
E-112	NRCC LTO CODE COMPLIANCE ADOPTION BLDG	ELECTRICAL
E-113	NRCC LTI CODE COMPLIANCE ADMIN BLDG	ELECTRICAL
E-300	DETAILS	ELECTRICAL
E-301	DETAILS	ELECTRICAL
E-302	DETAILS	ELECTRICAL
E-400	ELECTRICAL ENLARGED PLANS	ELECTRICAL
ES-100	ELECTRICAL EQUIPMENT CONNECTION	ELECTRICAL
ES-101	POWER SITE PLAN	ELECTRICAL
ES-102	LIGHTING SITE PLAN	ELECTRICAL
ES-103	SITE PLAN PHOTOMETRICS	ELECTRICAL
EA-101	ADMINISTRATION BUILDING LIGHTING FIRST FLOOR PLAN	ELECTRICAL
EA-102	ADMINISTRATION BUILDING LIGHTING SECOND FLOOR PLAN	ELECTRICAL
EA-201	ADMINISTRATION BUILDING POWER FIRST FLOOR PLAN	ELECTRICAL
EA-202	ADMINISTRATION BUILDING POWERL SECOND FLOOR PLAN	ELECTRICAL
EA-203	ADMINISTRATION BUILDING POWER ROOF PLAN	ELECTRICAL
EA-211	ADMINISTRATION BUILDING MECHANICAL EQUIPMENT POWER FIRST FLOOR PLAN	ELECTRICAL
EA-212	ADMINISTRATION BUILDING MECHANICAL EQUIPMENT POWER SECOND FLOOR PLAN	ELECTRICAL
EBC-101	MEDICAL CLINIC LIGHTING FLOOR PLAN	ELECTRICAL
EBC-201	MEDICAL CLINIC POWER FLOOR PLAN	ELECTRICAL
EBC-202	MEDICAL CLINIC POWER ROOF PLAN	ELECTRICAL
ED-101	CAT & OTHER ANIMALS BUILDING LIGHTING FLOOR PLAN	ELECTRICAL
ED-201	CAT & OTHER ANIMALS BUILDING POWER FLOOR PLAN	ELECTRICAL
ED-202	CAT & OTHER ANIMALS BUILDING POWER ROOF PLAN	ELECTRICAL
EE-101	ADOPTION DOG BUILDING 1 LIGHTING FLOOR PLAN	ELECTRICAL
EE-201	ADOPTION DOG BUILDING 1 POWER FLOOR PLAN	ELECTRICAL
EE-202	ADOPTION DOG BUILDING 1 POWER ROOF PLAN	ELECTRICAL
EF-101	ADOPTION DOG BUILDING 2 LIGHTING FLOOR PLAN	ELECTRICAL
EF-201	ADOPTION DOG BUILDING 2 POWER FLOOR PLAN	ELECTRICAL
EF-202	ADOPTION DOG BUILDING 2 POWER ROOF PLAN	ELECTRICAL
EG-101	ADOPTION DOG BUILDING 3 LIGHTING FLOOR PLAN	ELECTRICAL
EG-201	ADOPTION DOG BUILDING 3 POWER FLOOR PLAN	ELECTRICAL
EG-202	ADOPTION DOG BUILDING 3 POWER ROOF PLAN	ELECTRICAL
EH-101	STRAY DOG BUILDING LIGHTING FLOOR PLAN	ELECTRICAL
EH-201	STRAY DOG BUILDING POWER FLOOR PLAN	ELECTRICAL
EH-202	STRAY DOG BUILDING POWER ROOF PLAN	ELECTRICAL
EH.1-101	ADOPTION DOG BUILDING 4 LIGHTING PLAN	ELECTRICAL
EH.1-201	ADOPTION DOG BUILDING 4 POWER FLOOR PLAN	ELECTRICAL
EH.1-202	ADOPTION DOG BUILDING 4 POWER ROOF PLAN	ELECTRICAL
EI-101	SUPPORT BUILDING LIGHTING FLOOR PLAN	ELECTRICAL
EI-201	SUPPORT BUILDING POWER FLOOR PLAN	ELECTRICAL
EJ-101	ADOPTION DOG BUILDING 5 LIGHTING FLOOR PLAN	ELECTRICAL
EJ-201	ADOPTION DOG BUILDING 5 POWER FLOOR PLAN	ELECTRICAL
EJ-202	ADOPTION DOG BUILDING 5 POWER ROOF PLAN	ELECTRICAL
EK-101	ADOPTION DOG BUILDING 6 LIGHTING FLOOR PLAN	ELECTRICAL
EK-201	ADOPTION DOG BUILDING 6 POWER FLOOR PLAN	ELECTRICAL
EK-202	ADOPTION DOG BUILDING 6 POWER ROOF PLAN	ELECTRICAL
PLUMBING		
P-100	PLUMBING COVERSHEET	PLUMBING
P-101	SCHEDULES	PLUMBING
P-102	CALCULATIONS	PLUMBING
PS-101	PLUMBING SITE PLAN	PLUMBING
PA-101	ADMINISTRATION BUILDING PLUMBING UNDERFLOOR PLAN	PLUMBING
PA-102	ADMINISTRATION BUILDING PLUMBING FIRST FLOOR PLAN	PLUMBING
PA-103	ADMINISTRATION BUILDING PLUMBING SECOND FLOOR PLAN	PLUMBING
PA-104	ADMINISTRATION BUILDING PLUMBING ROOF PLAN	PLUMBING
PBC-101	MEDICAL CLINIC PLUMBING UNDERFLOOR PLAN	PLUMBING
PBC-102	MEDICAL CLINIC PLUMBING FLOOR PLAN	PLUMBING
PBC-103	MEDICAL CLINIC PLUMBING ROOF PLAN	PLUMBING
PD-101	CAT & OTHER ANIMALS BUILDING PLUMBING UNDERFLOOR PLAN	PLUMBING
PD-102	CAT & OTHER ANIMALS BUILDING PLUMBING FLOOR PLAN	PLUMBING
PD-103	CAT & OTHER ANIMALS BUILDING PLUMBING ROOF PLAN	PLUMBING
PE-101	ADOPTION DOG BUILDING 1 PLUMBING UNDERFLOOR PLAN	PLUMBING
PE-102	ADOPTION DOG BUILDING 1 PLUMBING FLOOR PLAN	PLUMBING
PE-103	ADOPTION DOG BUILDING 1 PLUMBING ROOF PLAN	PLUMBING
PF-101	ADOPTION DOG BUILDING 2 PLUMING UNDERFLOOR PLAN	PLUMBING
PF-102	ADOPTION DOG BUILDING 2 PLUMBING FLOOR PLAN	PLUMBING
PF-103	ADOPTION DOG BUILDING 2 PLUMBING ROOF PLAN	PLUMBING
PG-101	ADOPTION DOG BUILDING 3 PLUMBING UNDERFLOOR PLAN	PLUMBING

SHEET INDEX

SHEET #	SHEET NAME	DISCIPLINE
PG-102	ADOPTION DOG BUILDING 3 PLUMBING FLOOR PLAN	PLUMBING
PG-103	ADOPTION DOG BUILDING 3 PLUMBING ROOF PLAN	PLUMBING
PH-101	STRAY DOG BUILDING PLUMBING UNDERFLOOR PLAN	PLUMBING
PH-102	STRAY DOG BUILDING PLUMBING FLOOR PLAN	PLUMBING
PH-103	STRAY DOG BUILDING PLUMBING ROOF PLAN	PLUMBING
PH.1-101	ADOPTION DOG BUILDING 4 PLUMBING UNDERFLOOR PLAN	PLUMBING
PH.1-102	ADOPTION DOG BUILDING 4 PLUMBING FLOOR PLAN	PLUMBING
PH.1-103	ADOPTION DOG BUILDING 4 PLUMBING ROOF PLAN	PLUMBING
PI-101	SUPPORT BUILDING PLUMBING UNDERFLOOR PLAN	PLUMBING
PI-102	SUPPORT BUILDING PLUMBING FLOOR PLAN	PLUMBING
PI-103	SUPPORT BUILDING PLUMBING ROOF PLAN	PLUMBING
PJ-101	ADOPTION DOG BUILDING 5 PLUMBING UNDERFLOOR PLAN	PLUMBING
PJ-102	ADOPTION DOG BUILDING 5 PLUMBING FLOOR PLAN	PLUMBING
PJ-103	ADOPTION DOG BUILDING 5 PLUMBING ROOF PLAN	PLUMBING
PK-101	ADOPTION DOG BUILDING 6 PLUMBING UNDERFLOOR PLAN	PLUMBING
PK-102	ADOPTION DOG BUILDING 6 PLUMBING FLOOR PLAN	PLUMBING
PK-103	ADOPTION DOG BUILDING 6 PLUMBING ROOF PLAN	PLUMBING
P-300	PLUMBING DETAILS	PLUMBING
P-301	PLUMBING DETAILS	PLUMBING
P-302	PLUMBING DETAILS	PLUMBING
FIRE ALARM		
FA-100	FIRE ALARM COVERSHEET	FIRE ALARM
FA-101	FIRE ALARM COVERSHEET CONTINUED	FIRE ALARM
FAS-101	FIRE ALARM SITE PLAN	FIRE ALARM
FAA-101	ADMINISTRATION BUILDING FIRE ALARM FIRST FLOOR PLAN	FIRE ALARM
FAA-102	ADMINISTRATION BUILDING FIRE ALARM SECOND FLOOR PLAN	FIRE ALARM
FABC-101	MEDICAL CLINIC FIRE ALARM FLOOR PLAN	FIRE ALARM
FAD-101	CAT & OTHER ANIMALS BUILDING FIRE ALARM FLOOR PLAN	FIRE ALARM
FAE-101	ADOPTION DOG BUILDING 1 FIRE ALARM FLOOR PLAN	FIRE ALARM
FAF-101	ADOPTION DOG BUILDING 2 FIRE ALARM FLOOR PLAN	FIRE ALARM
FAG-101	ADOPTION DOG BUILDING 3 FIRE ALARM FLOOR PLAN	FIRE ALARM
FAH-101	STRAY DOG BUILDING FIRE ALARM FLOOR PLAN	FIRE ALARM
FAH.1-101	ADOPTION DOG BUILDING 4 FIRE ALARM FLOOR PLAN	FIRE ALARM
FAI-101	SUPPORT BUILDING FIRE ALARM FLOOR PLAN	FIRE ALARM
FAJ-101	ADOPTION DOG BUILDING 5 FIRE ALARM FLOOR PLAN	FIRE ALARM
FAK-101	ADOPTION DOG BUILDING 6 FIRE ALARM FLOOR PLAN	FIRE ALARM
FAL-101	ADOPTION DOG BUILDING 7 FIRE ALARM FLOOR PLAN	FIRE ALARM
FA-200	DETAILS	FIRE ALARM
TECHNOLOGY		
T-100	TECHNOLOGY COVERSHEET	TECHNOLOGY
T-101	SCHEDULES	TECHNOLOGY
T-102	SCHEDULES	TECHNOLOGY
T-103	SCHEDULES	TECHNOLOGY
TS-101	TECHNOLOGY SITE PLAN	TECHNOLOGY
TA-101	AA - ADMINISTRATION BUILDING TECHNOLOGY FIRST FLOOR PLAN	TECHNOLOGY
TA-102	AA - ADMINISTRATION BUILDING TECHNOLOGY SECOND FLOOR PLAN	TECHNOLOGY
TBC-101	AB & AC - MEDICAL CLINIC TECHNOLOGY FLOOR PLAN	TECHNOLOGY
TD-101	AD - CAT & OTHER ANIMALS BUILDING TECHNOLOGY FLOOR PLAN	TECHNOLOGY
TE-101	AE - ADOPTION DOG BUILDING 1 TECHNOLOGY FLOOR PLAN	TECHNOLOGY
TF-101	AF- ADOPTION DOG BUILDING 2 TECHNOLOGY FLOOR PLAN	TECHNOLOGY
TG-101	AG - ADOPTION DOG BUILDING 3 TECHNOLOGY FLOOR PLAN	TECHNOLOGY
TH-101	AH - STRAY DOG BUILDING TECHNOLOGY FLOOR PLAN	TECHNOLOGY
TH.1-101	AH.1 - ADOPTION DOF BUILDING 4 TECHNOLOGY FLOOR PLAN	TECHNOLOGY
TI-101	AI - SUPPORT BUILDING TECHNOLOGY FLOOR PLAN	TECHNOLOGY
TJ-101	AJ - DOG BUILDING TECHNOLOGY FLOOR PLAN	TECHNOLOGY
TK-101	AK - DOG BUILDING TECHNOLOGY FLOOR PLAN	TECHNOLOGY
T-200	DETAILS	TECHNOLOGY
T-201	DETAILS	TECHNOLOGY
T-202	DETAILS	TECHNOLOGY
T-203	DETAILS	TECHNOLOGY
T-204	DETAILS	TECHNOLOGY
T-300	DIAGRAMS	TECHNOLOGY
T-301	DIAGRAMS	TECHNOLOGY
T-302	DIAGRAMS	TECHNOLOGY
T-400	TECHNOLOGY ENLARGED PLANS	TECHNOLOGY
T-401	TECHNOLOGY ENLARGED PLANS	TECHNOLOGY
T-402	TECHNOLOGY ENLARGED PLANS	TECHNOLOGY
EQUIPMENT		
AE1	ANIMAL EQUIPMENT PLAN- ADMINISTRATION FIRST FLOOR	EQUIPMENT
AE2	ANIMAL EQUIPMENT PLAN- CAT AND OTHER ANIMALS BUILDING	EQUIPMENT
AE3	ANIMAL EQUIPMENT PLAN- SUPPORT BUILDING	EQUIPMENT
AE4	ANIMAL EQUIPMENT PLAN- ADOPTION DOG AND STRAY DOG BUILDING	EQUIPMENT
AE5	ANIMAL EQUIPMENT PLAN- MEDICAL BUILDING	EQUIPMENT
AE6	ANIMAL EQUIPMENT DETAILS	EQUIPMENT
AE7	ANIMAL EQUIPMENT DETAILS	EQUIPMENT
AE8	ANIMAL EQUIPMENT DETAILS	EQUIPMENT
SHADE STRUCTURE		
1000	JOINED 3PT SAILS - USA SHADE & FABRIC STRUCTURES	SHADE STRUCTURE
FREEZER		
AD-1 OF 3	KOLPAK WALK-IN FREEZER LAYOUT	FREEZER
AD-2 OF 3	KOLPAK WALK IN FREEZER DETAILS	FREEZER
AD-3 OF 3	KOLPAK WALK IN FREEZER DETAILS	FREEZER
TOTAL: 426		

SHEET INDEX

C:\Users\sergio\Documents\San Bernardino_00_Site Plan_R22_Central File_spenaXHN37.rvt

MILLER

architecture
interiors
planning

"Shelter Planners of America"®

1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT
GARY W. MILLER
No. C14635
REN. 9-30-25
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment
1	2/24	PCC Response #1

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	2200065
Drawn By:	Author
Checked By:	MB
Issue Date:	6/12/2024

sheet name

SHEET INDEX

sheet number

G-002

Sheet Of Sheets

AIA California

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y | N/A | RESPON. PARTY

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES
DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL
5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS
5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating od 9 oe 10 as regulated under 40 CFR Section 600 Subpart D.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

[Y] [ ] CONTRAC. CIVIL

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

[Y] [ ] OWNER. CIVIL

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

[Y] [ ] CONTRAC. ARCH.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

[Y] [ ] CONTRAC. ELEC.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section

5.106.5.3.1 EV capable spaces.
[N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:
1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)^2
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20% of total[1]	25% of EV capable spaces[1]

1. Where there is insufficient electrical supply.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count towards the total number of required EV capable spaces shown in column 2.

5.106.5.3.2 Electric vehicle charging stations (EVCS)
EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.3 Use of automatic load management systems (ALMS).
ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section
5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.
When EVSE is installed, accessible EVSC shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.
Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N]
Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.
Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces.
[N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceways(s) or busway(s) and adequate capacity for transformers(s), service panels(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:
1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium-and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 5.106.5.4.1
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium-and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
		3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
		3 or Greater	400
	Greater than 256,000	1 or Greater	400

[Y] [ ] CONTRAC. ELEC.ENG.

5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS [1,2]

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING [3]					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting [3]	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING [3] (G)					
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code.*

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

[Y] [ ] CIVIL

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
Exception: Additions and alterations not altering the drainage path.

[Y] [ ] CONTRAC. LAND. ARCH.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY
SECTION 5.201 GENERAL
5.201.1 Scope [BSC-CG]. ***California Energy Code [DSA-SS].*** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL
5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS
5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

MILLER
architecture
interiors
planning

1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT
GARY W. MILLER
No. C14635
REN. 9-30-25
STATE OF CALIFORNIA

"Shelter Planners of America"®

owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-8988

PROJECT INFORMATION

Project Number:	2200065
Drawn By:	Author
Checked By:	GWM
Issue Date:	6/12/2024

SHEET NAME

CAL GREEN SHEET 1

SHEET NUMBER

G-003

Sheet Of Sheets

AIA California

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

Y | CONTRAC | PLUMB.ENG

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

Y | CONTRAC | PLUMB.ENG

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

Y | CONTRAC | PLUMB.ENG

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

Y | CONTRAC | PLUMB.ENG

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

Y | CONTRAC | PLUMB.ENG

5.303.3.4 Faucets and fountains.

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray value
When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (dd)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

CONTRAC | LAND.ARCH

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

Y | CONTRAC | ARCHITECT LAND.ARCH

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

Y | CONTRAC

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Y | CONTRAC | OWNER

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82(a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

Y | N/A | RESPON. PARTY

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements.

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes:

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not verify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:

1. Environmental and sustainability goals.
2. Building sustainability goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:

1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:

1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:

1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

Y | CONTRAC

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 sq. feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS)). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O^3/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

Y | CONTRAC

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

Y | CONTRAC

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

MILLER
architecture
interiors
planning

"Shelter Planners of America"

1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT
GARY W. MILLER
No. C-14635
REN. 9-30-25
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
18313 VALLEY BLVD, BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	2200065
Drawn By:	Author
Checked By:	MB
Issue Date:	6/12/2024

sheet name

CAL GREEN SHEET 2

sheet number

G-004

Sheet Of Sheets

C:\Users\michael\Documents\San Bernardino_00_Site Plan_R22_Central File_mbedell\GG39K.rvt

AIA California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY
☑	☐	CONTRAC
		ARCHITECT
		PLUMB. ENG.

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(a)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3 - CONT.

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems.
All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,"Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.4.7 Thermal insulation
Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 2017 (Emission testing method for California Specifications 01350).
See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance.
Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

5.504.4.8 Acoustical ceiling and wall panels.
Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 2017 (Emission testing method for California Specifications 01350).
See California Department of Public Health's website for certification programs and testing labs.

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibition.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

5.506.3 Carbon dioxide (CO2) monitoring in classrooms.
(DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the *California Energy Code*, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:

1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows.
2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceeded 1,100ppm.
4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration.
5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.
6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

MILLER
architecture
interiors
planning

"Shelter Planners of America"

1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT
GARY W. MILLER
No. C-44639
REN. 9-30-25
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
18313 VALLEY BLVD, BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	2200065
Drawn By:	Author
Checked By:	MB
Issue Date:	6/12/2024

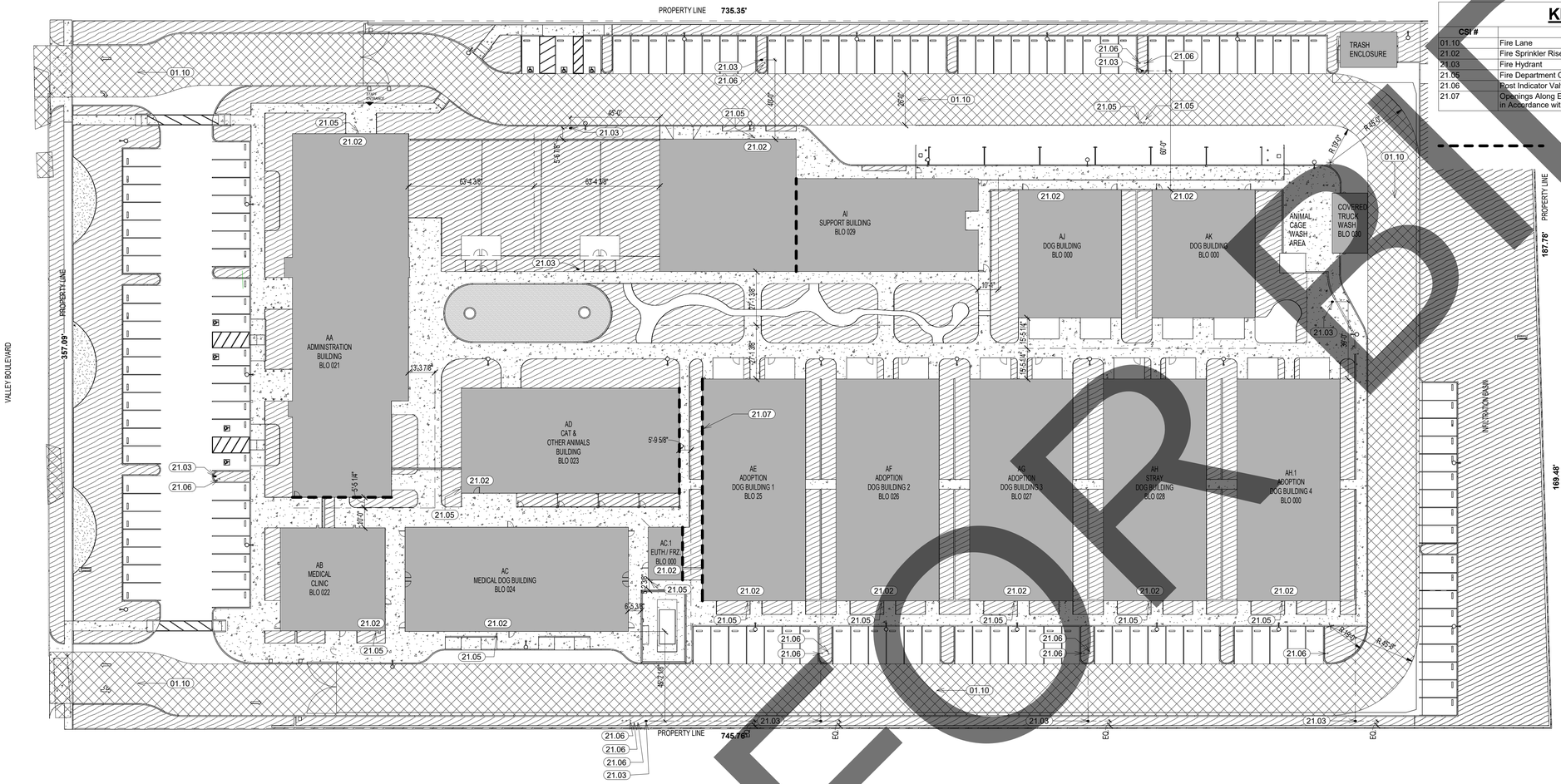
sheet name

CAL GREEN SHEET 3

sheet number

G-005

Sheet Of Sheets



KEYNOTE LEGEND

CSI #	KEYNOTE TEXT
01.10	Fire Lane
21.02	Fire Sprinkler Riser
21.03	Fire Hydrant
21.05	Fire Department Connection
21.06	Post Indicator Valve
21.07	Openings Along Exterior Shall Either be 1-hour Rated or Protected with Water Curtain in Accordance with 705.8.2 Protected Openings Exception

1-HOUR RATED WALL

SITE PLAN for Code/ Fire

SCALE 1" = 30'-0"

2

AGGREGATE BUILDING NO. PER 705.3, EXCEPTION 1	SEPARATE BUILDING NO.	NAME	OCC.	CONST. TYPE	SPRINK.	STORIES ALLOWED	STORIES ACTUAL	HEIGHT ALLOWED	HEIGHT ACTUAL	SF ALLOWED	FRONTAGE INCREASE FACTOR	SF ACTUAL	MIXED OCCUPANCY CALC.	AREA/ OCC. SEP.	EXT. WALLS FIRE RESISTANCE RATING			
															N	S	E	W
NA	AA	ADMINISTRATION- 1ST FLOOR	B	V B	Y, PER 903.3.1.1	(S) 3	2	(S) 60'	30'	(SM) 57,000	NA	10,395	NA	NA	0	0	0	1
		ADMINISTRATION- 2ND FLOOR								(SM) 57,000	NA	4,296	NA	NA				
1	AB	MEDICAL CLINIC	B	V B	Y, PER 903.3.1.1	(S) 3	1	(S) 60'	22'- 4 7/8"	(S1) 36,000	NA	2,758	NA	NA	0	0	0	0
	AC	DOG CLINIC	B	V B	Y, PER 903.3.1.1		1		20'-1/2"		NA	+ 5,934	NA	NA	0	0	1	0
	AC.1	EUTHANASIA/ FREEZER	B	V B	Y, PER 903.3.1.1		1		15'- 6 1/8"		NA	+ = 14,984	NA	NA	0	1	1	0
	AD	CAT AND OTHER ANIMALS	B	V B	Y, PER 903.3.1.1		1		20'- 2 1/2"		NA	462 + 5,830	NA	NA	0	1	0	0
2	AE	ADOPTION DOG	B	V B	Y, PER 903.3.1.1	(S) 3	1	(S) 60'	20'- 2 1/2"	(S1) 36,000	NA	5,824	NA	NA	1	0	0	0
	AF	ADOPTION DOG	B	V B	Y, PER 903.3.1.1		1		20'- 2 1/2"		NA	+ 5,824	NA	NA	0	0	0	0
	AG	ADOPTION DOG	B	V B	Y, PER 903.3.1.1		1		20'- 2 1/2"		NA	+ 5,824 = 29,120	NA	NA	0	0	0	0
	AH	STRAY DOG	B	V B	Y, PER 903.3.1.1		1		20'- 2 1/2"		NA	+ 5,824	NA	NA	0	0	0	0
	AH.1	ADOPTION DOG	B	V B	Y, PER 903.3.1.1		1		20'- 2 1/2"		NA	+ 5,824	NA	NA	0	0	0	0
NA	AI	SUPPORT- ANIMAL SERVICES	B	V B	Y, PER 903.3.1.1	(S) 3	1	(S) 60'	24'- 3 7/16"	(S1) 36,000	NA	4,612	4,612/ 36,000 = .13 + 4,284/ 54,000 = .08 = .21 < 1, OK	1-HOUR	0	0	0	0
		SUPPORT- STORAGE	S-2*							(S1) 36,000	NA	4,284						
3	AJ	ADOPTION DOG	B	V B	Y, PER 903.3.1.1	(S) 3	1	(S) 60'	20'- 2 1/2"	(S1) 36,000	NA	3,363	NA	NA	0	0	0	0
	AK	ADOPTION DOG	B	V B	Y, PER 903.3.1.1	(S) 3	1		20'- 2 1/2"		NA	+ = 6,726 3,363	NA	NA	0	0	0	0
												74,391						

MILLER
architecture
interiors
planning

1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT GARY W. MILLER No. C14635 REN. 9-30-25 STATE OF CALIFORNIA

"Shelter Planners of America"

owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment
1	2/24	PCC Response #1

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-8988

PROJECT INFORMATION

Project Number:	2200065
Drawn By:	SP
Checked By:	GWM
Issue Date:	6/12/2024

SHEET NAME

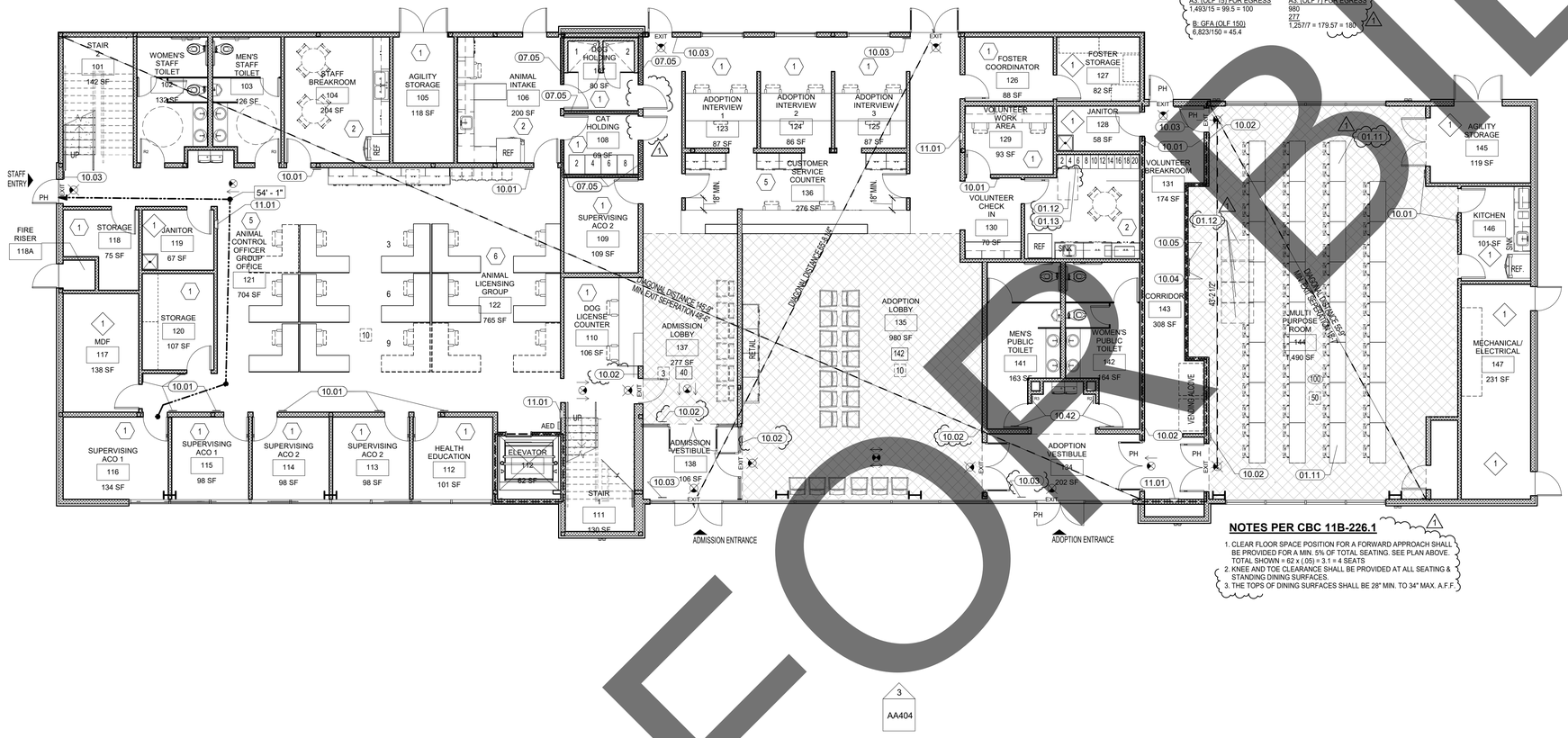
CODE ANALYSIS/ FIRE MASTER PLAN

SHEET NUMBER

G-006

Sheet Of Sheets

C:\Users\michael\Documents\San Bernardino_00_Site Plan_R22_Central File_mbedell3G39K.rvt



NOTES PER CBC 11B-226.1

1. CLEAR FLOOR SPACE POSITION FOR A FORWARD APPROACH SHALL BE PROVIDED FOR A MIN. 5% OF TOTAL SEATING. SEE PLAN ABOVE. TOTAL SHOWN = 62 x (.05) = 3.1 = 4 SEATS
2. KNEE AND TOE CLEARANCE SHALL BE PROVIDED AT ALL SEATING & STANDING DINING SURFACES.
3. THE TOPS OF DINING SURFACES SHALL BE 28" MIN. TO 34" MAX. A.F.F.

3 AA404

1ST FLOOR CODE ANALYSIS BUILDING 'A'

SCALE 1/8" = 1'-0" 1

SIGNS AND IDENTIFICATION NOTES:

1. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
2. WHEN SIGNS IDENTIFY PERMANENT ROOMS AND SPACES OF A BUILDING OR SITE, THEY SHALL COMPLY WITH CBC 11B-216
3. TACTILE EXIT SIGNS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:
   A. PRIMARY ENTRANCES AND DIRECTIONAL SIGNS ON THE ACCESSIBLE ROUTE AND PATH OF TRAVEL.
   B. EACH GRADE LEVEL EXTERIOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD "EXIT".
   C. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".
   D. AT 2ND FLOOR STAIR, A SIGN WITH THE WORDS "EXIT STAIR DOWN".

ASSISTIVE LISTENING DEVICES:

THE NUMBER OF REQUIRED ASSISTIVE LISTENING DEVICES IS 4% OF TOAL OCCUPANCY (NO LEES THAN 2), AND A MINIMUM 25% (NO LESS THAN 2) REQUIRED TO BE HEARING AID COMPATABLE.

ASSISTIVE LISTENING SYSTEMS SHALL COMPLY WITH SECTION 11B-219.3 AND 11B-706 OF THE CBC.

OCCUPANCY: MULTI-PURPOSE ROOM = 100

TOTAL= 100 x .04 = 4 TOTAL DEVICES REQUIRED (HEARING AID COMPATIBLE)

PLUMBING FIXTURE DATA:

OLF FROM CPC TABLE 4-1:	A(30 or *)	B(150)	S(4,000)	TOTAL
SECOND FLOOR:	OL=0	OL=26	OL=1	27
FIRST FLOOR:	OL=63	OL=29	OL=4	74
	75	36	2	85
DIVIDED BY 2 FOR M/W:	38 M/W	18 M/W	1 M/W	43 M/W

FIXTURES REQUIRED: CPC TABLE 422.1

A3:	MALE:	FEMALE:
WC:	1-100 = 1	WC: 26-50 = 2
LAV:	1-200 = 1	LAV: 1-100 = 1
URINAL:	1-100 = 1	
DRINKING FOUNTAIN	1-250 = 1	

B:	MALE:	FEMALE:
WC:	1-50 = 1	WC: 16-30 = 2
LAV:	1-75 = 1	LAV: 1-50 = 1
URINAL:	1-100 = 1	
DRINKING FOUNTAIN	1-150 = 1	

S1:	MALE:	FEMALE:
WC:	1-100 = 1	WC: 1-100 = 1
LAV:	1-200 = 1	LAV: 1-200 = 1
URINAL	N/A = 0	
DRINKING FOUNTAIN	1-250 = 1	

TOTAL FIXTURES REQUIRED:

MALE:		FEMALE:	
WC:	3	WC:	5
LAV:	3	LAV:	3
URINAL:	2		
DRINKING FOUNTAINS	3		
SERVICE SINK:	2		

TOTAL FIXTURES PROVIDED:

MALE:		FEMALE:	
WC:	3	WC:	6
LAV:	6	LAV:	6
URINAL	3		
DRINKING FOUNTAINS	3		
SERVICE SINK	2		

CPC (BSC) OLF LEGEND - TABLE 4-1:

FUNCTION OF SPACE - NOT OCCUPANCY TYPE

*	Assembly (Lobbies) 1/2 the Fixed Seating
4,000	Storage
150	Business
30	Conference Room
50	Multi-Purpose Room Education (classroom) beyond 12th grade

CBC 303.1.2: A space for assembly with an occupant load of less the 50 persons shall be classified as Group B

Therefore breakrooms and the conference room use OLF 150.

OCCUPANCY PLAN LEGEND:

CBC TABLE 1004.5: OCCUPANT LOAD FACTOR (OLF)

150	BUSINESS AREAS 150 GROSS
15	ASSEMBLY 15 NET
300	STORAGE 300 GROSS
7	ASSEMBLY CONCENTRATED 7 NET
	EGRESS PATH OF TRAVEL
	EXIT SIGN - SEE DETAIL 14/G-501
PH	PANIC HARDWARE - SEE SHEET A-601
R#	ACCESSIBLE RESTROOM SIGN - SEE 16/G-501
R2	WOMEN'S RESTROOM
R3	MEN'S RESTROOM

OCCUPANCY LOAD DATA:

TOTAL AREA: 14,691 SF

BUSINESS: OLF: 150 SF/ O; 10,634 / 150 = 70.89 = 71 OCCUPANTS
ASSEMBLY (LOBBIES): OLF: 7 SF/ O; 1,257 / 7 = 179.57 = 180 OCCUPANTS
ASSEMBLY: OLF: 15 SF/ O; 1,493 / 15 = 99.5 = 100 OCCUPANTS

TOTAL BUILDING OCCUPANT LOAD: 71 + 180 + 100 = 419
(1ST FLOOR = 393; 2ND FLOOR = 26)

BUILDING DATA:

OCCUPANCY: GROUP B AND A 3 (UTILIZING NON-SEPARATED APPROACH WITH A3 AS THE MOST RESTRICTIVE)

TYPE OF CONSTRUCTION:	TYPE V-B
AUTOMATIC FIRE SPRINKLERS:	YES
FIRE ALRM SYSTEM	YES
BUILDING AREA:	
FIRST FLOOR:	10,395 SF
SECOND FLOOR:	4,296 SF
TOTAL AREA:	**14,691 SF**
ALLOWABLE HEIGHT PER TABLE 504.3:	60'-0"
ALLOWABLE STORIES PER TABLE 504.4:	2
ALLOWABLE AREA FACTOR PER TABLE 506.2:	18,000 SF
ACTUAL STORIES:	2
ACTUAL BUILDING HEIGHT:	30'-0"

EGRESS DATA:

EXIT WIDTH REQUIRED PER CBC SECTION 1005:
2ND FLOOR - STAIRS: 26 x 0.3 = 7.8"
1ST FLOOR - OTHER: 393 x 0.2 = 78.6"
TOTAL EXIT WIDTH REQUIRED = 86.4"
TOTAL EXIT WIDTH PROVIDED: = 324"

NUMBER OF EXITS REQUIRED PER TABLE 1006.3.3:
NUMBER OF EXITS REQUIRED: 2
NUMBER OF EXITS PROVIDED: 6

EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2:
A-3: 250 FT; B: 300 FT

MINIMUM EXIT SEPARATION REQUIRED PER SECTION 1007.1.1 EXCEPTION 2 FOR SPRINKLERED BUILDINGS. NOT LESS THAN 1/3 OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED:

MAXIMUM DIAGONAL DISTANCE = 145' - 9"
MINIMUM SEPARATION REQUIRED = 48' - 6"
MINIMUM SEPARATION PROVIDED = 65' - 8 3/4"

LANDINGS ON EACH SIDE OF DOORS SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE DOORWAY.THRESHOLDS SHALL BE PROVIDED FOR TRANSITION WITH 1/4" MAXIMUM VERTICAL CHANGE IN LEVEL IN CONFORMANCE WITH CBC SECTION 1010.1.7.

KEYNOTE LEGEND

CSI #	KEYNOTE TEXT
01.11	Table/Work Surface to be 28" Min. to 34" Max.
01.12	30" x 48" Clear Floor Space
01.13	No Hooks, Shelves or Full Lenngth Mirror Provided
07.05	Provide Sound Batt Insulation in wall
10.01	Tactile Room Name Sign. See Detail 12/A-502
10.02	Tactile Exit Route Sign. See Detail 8/G-501
10.03	Tactile Exit Sign. See Detail 7/G-501
10.04	Assistive Listening Sign. See Detail 18/G-501
10.05	Maximum Occupant Load Sign. See Detail 17/G-501
10.42	Toilet Room Sigange. See Detail 16/G-501
11.01	Fire Extinguisher

WALL TYPE LEGEND

- DASHED LINE INDICATES 1-HOUR RATING; 2-HOUR @ ELEVATOR
- STEEL STUDS PER SCHEDULE
- CMU MASONRY UNIT

MILLER
architecture
interiors
planning
1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT GARY W. MILLER No. C14635 REN. 9-30-25 STATE OF CALIFORNIA

"Shelter Planners of America"

owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment
1	2/24	PCC Response #1

ANIMAL CARE CENTER
18313 VALLEY BLVD.
BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-8988

PROJECT INFORMATION

Project Number:	2200065
Drawn By:	Author
Checked By:	GWM
Issue Date:	2/29/24

SHEET NAME

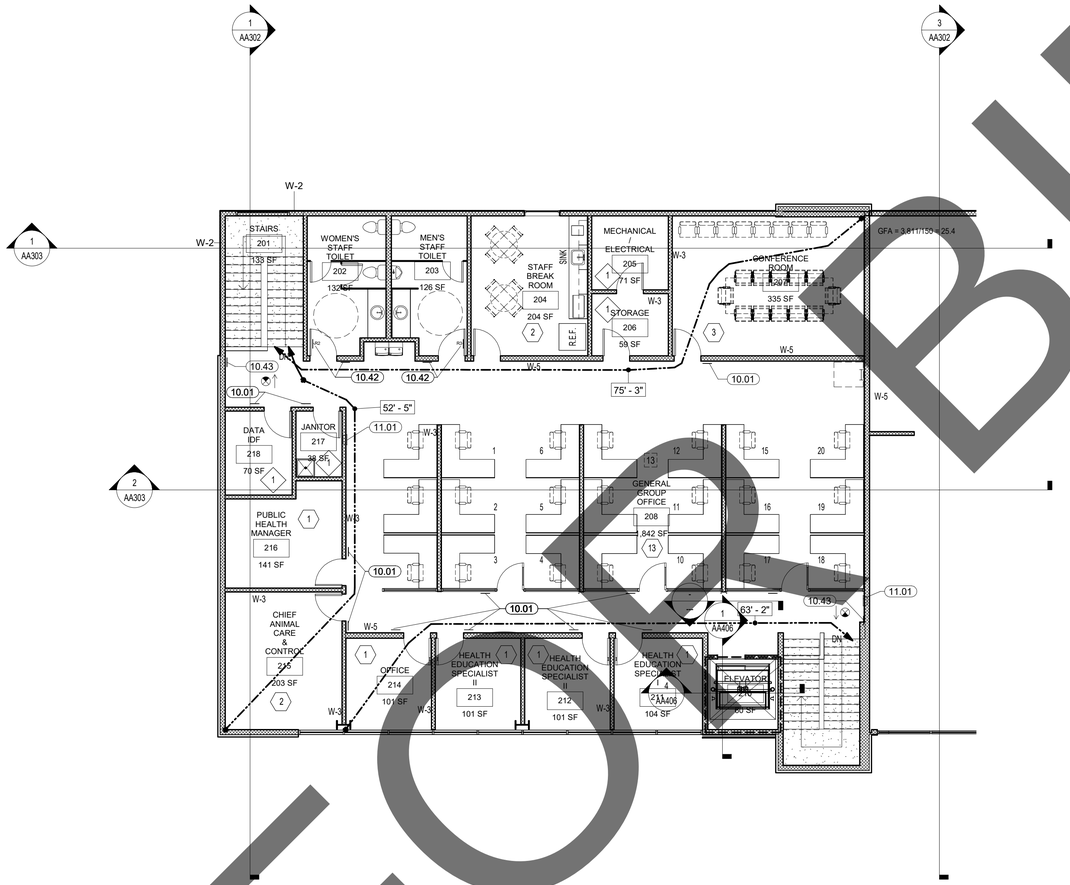
1ST FLOOR CODE ANALYSIS BLDG. A

SHEET NUMBER

G-007A

Sheet Of Sheets

C:\Users\michael\Documents\San Bernardino_AA_Admin Building_R22_mbedellGG9K.rvt



FLOOR PLAN - ADMINISTRATION BUILDING SECOND FLOOR

SCALE 1/8" = 1'-0" 1

SIGNS AND IDENTIFICATION NOTES:

1. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
2. WHEN SIGNS IDENTIFY PERMANENT ROOMS AND SPACES OF A BUILDING OR SITE, THEY SHALL COMPLY WITH CBC 11B-216
3. TACTILE EXIT SIGNS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:
   A. PRIMARY ENTRANCES AND DIRECTIONAL SIGNS ON THE ACCESSIBLE ROUTE AND PATH OF TRAVEL
   B. EACH GRADE LEVEL EXTERIOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD "EXIT".
   C. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".
   D. AT 2ND FLOOR STAIR, A SIGN WITH THE WORDS "EXIT STAIR DOWN".

ASSISTIVE LISTENING DEVICES:

THE NUMBER OF REQUIRED ASSISTIVE LISTENING DEVICES IS 4% OF TOAL OCCUPANCY (NO LEES THAN 2), AND A MINIMUM 25% (NO LESS THAN 2) REQUIRED TO BE HEARING AID COMPATABLE.

ASSISTIVE LISTENING SYSTEMS SHALL COMPLY WITH SECTION 11B-219.3 AND 11B-706 OF THE CBC.

OCCUPANCY: MULTI-PURPOSE ROOM = 100

TOTAL= 100 x .04 = 4 TOTAL DEVICES REQUIRED (HEARING AID COMPATIBLE)

PLUMBING FIXTURE DATA:

		A(30 or *)	B(150)	S(4,000)	TOTAL
SECOND FLOOR:		OL=0	OL=26	OL=1	27
FIRST FLOOR:		OL=63	OL=29	OL=1	74
		75	36	2	85
DIVIDED BY 2 FOR M/W:		38 M/W	18 M/W	1 M/W	43 M/W

FIXTURES REQUIRED: CPC TABLE 422.1

A3:	MALE:	FEMALE:
WC:	1-100 = 1	WC: 26-50 = 2
LAV:	1-200 = 1	LAV: 1-100 = 1
URINAL:	1-100 = 1	
DRINKING FOUNTAIN	1-250 = 1	

B:	MALE:	FEMALE:
WC:	1-50 = 1	WC: 16-30 = 2
LAV:	1-75 = 1	LAV: 1-50 = 1
URINAL:	1-100 = 1	
DRINKING FOUNTAIN	1-150 = 1	

S1:	MALE:	FEMALE:
WC:	1-100 = 1	WC: 1-100 = 1
LAV:	1-200 = 1	LAV: 1-200 = 1
URINAL:	N/A = 0	
DRINKING FOUNTAIN	1-250 = 1	

TOTAL FIXTURES REQUIRED:

MALE:		FEMALE:	
WC:	3	WC:	5
LAV:	3	LAV:	3
URINAL:	2		
DRINKING FOUNTAINS	3		
SERVICE SINK:	2		

TOTAL FIXTURES PROVIDED:

MALE:		FEMALE:	
WC:	3	WC:	6
LAV:	6	LAV:	6
URINAL:	3		
DRINKING FOUNTAINS	3		
SERVICE SINK	2		

CPC (BSC) OLF LEGEND - TABLE 4-1:

FUNCTION OF SPACE - NOT OCCUPANCY TYPE

*	Assembly (Lobbies) 1/2 the Fixed Seating	150	Business
4,000	Storage	30	Conference Room
		50	Multi-Purpose Room Education (classroom) beyond 12th grade

CBC 303.1.2 A space for assembly with an occupant load of less the 50 persons shall be classified as Group B

Therefore breakrooms and the conference room use OLF 150.

OCCUPANCY PLAN LEGEND:

CBC TABLE 1004.5: OCCUPANT LOAD FACTOR (OLF)

- 150 — BUSINESS AREAS 150 GROSS
- 300 — STORAGE 300 GROSS
- 15 — ASSEMBLY 15 NET
- 7 — ASSEMBLY CONCENTRATED 7 NET
- EGRESS PATH OF TRAVEL
- EXIT SIGN - SEE DETAIL 14/G-501
- PH — PANIC HARDWARE - SEE SHEET A-601
- R# — ACCESSIBLE RESTROOM SIGN - SEE 16/G-501
  - R2 WOMEN'S RESTROOM
  - R3 MEN'S RESTROOM

OCCUPANCY LOAD DATA:

TOTAL AREA: 14,691 SF

BUSINESS: OLF: 150 SF/ O; 10,634 / 150 = 70.89 = 71 OCCUPANTS
ASSEMBLY (LOBBIES): OLF: 7 SF/ O; 1,257 / 7 = 179.57 = 180 OCCUPANTS
ASSEMBLY: OLF: 15 SF/ O; 1,493 / 15 = 99.5 = 100 OCCUPANTS

TOTAL BUILDING OCCUPANT LOAD: 71 + 180 + 100 = 419
(1ST FLOOR = 393; 2ND FLOOR = 26)

OCCUPANCY TYPE LEGEND:

- B (BUSINESS) OCCUPANCY
- A-3 (ASSEMBLY) OCCUPANCY

BUILDING DATA:

OCCUPANCY: GROUP B AND A 3 (UTILIZING NON-SEPARATED APPROACH WITH A3 AS THE MOST RESTRICTIVE)

TYPE OF CONSTRUCTION:	TYPE V-B
AUTOMATIC FIRE SPRINKLERS:	YES
FIRE ALRM SYSTEM	YES
BUILDING AREA:	
FIRST FLOOR:	10,395 SF
SECOND FLOOR:	4,296 SF
TOTAL AREA:	**14,691 SF**

ALLOWABLE HEIGHT PER TABLE 504.3:	60'-0"
ALLOWABLE STORIES PER TABLE 504.4:	2
ALLOWABLE AREA FACTOR PER TABLE 506.2:	18,000 SF
ACTUAL STORIES:	2
ACTUAL BUILDING HEIGHT:	30'-0"

EGRESS DATA:

EXIT WIDTH REQUIRED PER CBC SECTION 1005:
2ND FLOOR - STAIRS: 26 x 0.3 = 7.8"
1ST FLOOR - OTHER: 393 x 0.2 = 78.6"
TOTAL EXIT WIDTH REQUIRED = 86.4"
TOTAL EXIT WIDTH PROVIDED: = 324"

NUMBER OF EXITS REQUIRED PER TABLE 1006.3.3:
NUMBER OF EXITS REQUIRED: 2
NUMBER OF EXITS PROVIDED: 6

EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2:
A-3: 250 FT; B: 300 FT

MINIMUM EXIT SEPARATION REQUIRED PER SECTION 1007.1.1 EXCEPTION 2 FOR SPRINKLERED BUILDINGS. NOT LESS THAN 1/3 OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED:

MAXIMUM DIAGONAL DISTANCE = 145' - 9"
MINIMUM SEPARATION REQUIRED = 48' - 6"
MINIMUM SEPARATION PROVIDED = 65' - 8 3/4"

LANDINGS ON EACH SIDE OF DOORS SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE DOORWAY.THRESHOLDS SHALL BE PROVIDED FOR TRANSITION WITH 1/4" MAXIMUM VERTICAL CHANGE IN LEVEL IN CONFORMANCE WITH CBC SECTION 1010.1.7.

KEYNOTE LEGEND

CSI #	KEYNOTE TEXT
10.01	Tactile Room Name Sign. See Detail 12/A-502
10.42	Toilet Room Sigange. See Detail 16/G-501
10.43	Tactile Exit Stairs Down Sign. See Detail 1/G501
11.01	Fire Extinguisher

WALL TYPE LEGEND

- DASHED LINE INDICATES 1-HOUR RATING; 2-HOUR @ ELEVATOR
- STEEL STUDS PER SCHEDULE
- CMU MASONRY UNIT

MILLER
architecture
interiors
planning

1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT GARY W. MILLER No. C-14635 REN. 9-30-25 STATE OF CALIFORNIA

"Shelter Planners of America"

owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment
1	2/24	PCC Response #1

ANIMAL CARE CENTER
18313 VALLEY BLVD.
BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-8988

PROJECT INFORMATION

Project Number:	2200065
Drawn By:	Author
Checked By:	GWM
Issue Date:	2/29/24

SHEET NAME

2ND FLOOR CODE ANALYSIS BLDG. A

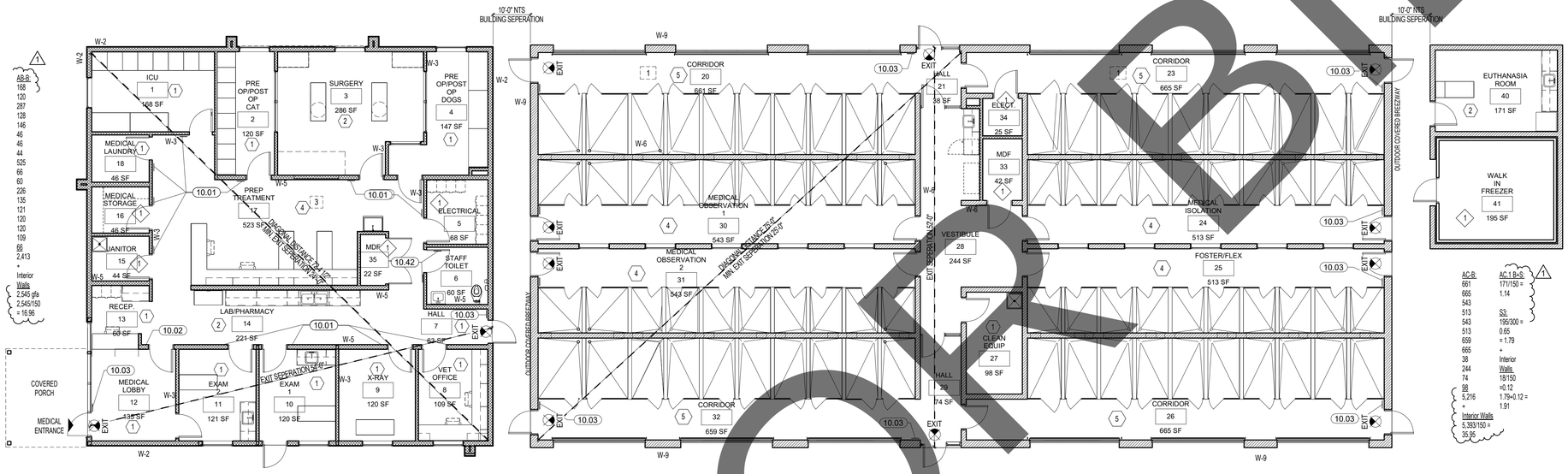
SHEET NUMBER

G-007B

Sheet Of Sheets

C:\Users\michael\Documents\San Bernardino_AA_Admin Building_R22_mbeiell\G39K.rvt

BUILDING B **BUILDING C** **BUILDING C.1**



CODE FLOOR PLAN - MEDICAL AND DOG BUILDING

SCALE 1/8" = 1'-0" 1

SIGNS AND IDENTIFICATION NOTES:

1. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
2. WHEN SIGNS IDENTIFY PERMANENT ROOMS AND SPACES OF A BUILDING OR SITE, THEY SHALL COMPLY WITH CBC 11B-216
3. TACTILE EXIT SIGNS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:
   A. PRIMARY ENTRANCES AND DIRECTIONAL SIGNS ON THE ACCESSIBLE ROUTE AND PATH OF TRAVEL
   B. EACH GRADE LEVEL EXTERIOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD "EXIT".
   C. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".

ASSISTIVE LISTENING DEVICES:

THE NUMBER OF REQUIRED ASSISTIVE LISTENING DEVICES IS 4% OF TOAL OCCUPANCY (NO LEES THAN 2), AND A MINIMUM 25% (NO LESS THAN 2) REQUIRED TO BE HEARING AID COMPATABLE.

ASSISTIVE LISTENING SYSTEMS SHALL COMPLY WITH SECTION 11B-219.3 AND 11B-706 OF THE CBC.

OCCUPANCY: MULTI-PURPOSE ROOM = 75

TOTAL= 75 x .04 = 3 TOTAL DEVICES REQUIRED (HEARING AID COMPATIBLE)

PLUMBING FIXTURE DATA:

OLF FROM CPC TABLE 4-1:	B(200)	S(4,000)	TOTAL
AB:	OL=12	OL=1	13
AC:		OL=2	2
AC.1:		OL=1	1
TOTAL:			16

16/2 = 8 MEN AND 8 WOMEN

FIXTURES REQUIRED: CPC TABLE 422.1

B:	MALE:	FEMALE:
WC:	1-50 = 1	WC: 1-15 = 1
LAV:	1-75 = 1	LAV: 1-50 = 1
URINAL:	1-100 = 1	
DRINKING FOUNTAIN	1-150 = 1	

TOTAL FIXTURES REQUIRED:

MALE:		FEMALE:	
WC:	1	WC:	1
LAV:	1	LAV:	1
URINAL:	1		
DRINKING FOUNTAINS	1		
SERVICE SINK:	1		

TOTAL FIXTURES PROVIDED:

MALE:		FEMALE:	
WC:	1	WC:	1
LAV:	1	LAV:	1
URINAL:	1		
DRINKING FOUNTAINS	1		
SERVICE SINK	1		

CPC OLF LEGEND - TABLE 4.1:

4,000 Storage 150 Business

OCCUPANCY PLAN LEGEND:

CBC TABLE 1004.5: OCCUPANT LOAD FACTOR (OLF)

150 BUSINESS AREAS 150 GROSS

500 WAREHOUSE 500 GROSS

300 STORAGE/AGRICULTURE 300 GROSS

EGRESS PATH OF TRAVEL

EXIT SIGN - SEE DETAIL 14/G-501

PH PANIC HARDWARE - SEE SHEET A-601

R# ACCESSIBLE RESTROOM SIGN - SEE 7/G-501

R2 WOMEN'S RESTROOM
R3 MEN'S RESTROOM

OCCUPANCY LOAD DATA:

TOTAL AREA: 9,086 SF

AB: 2,797 SF
BUSINESS: OLF: 150 GSF/ O; 2,545 / 150 = 16.96 = 17 OCCUPANTS

AB: OCCUPANT LOAD: 17

AC: 5,845 SF
BUSINESS: OLF: 150 GSF / O; 5,393/ 150 = 35.95 = 36 OCCUPANT

AC: OCCUPANT LOAD: 36

AC.1: 361 SF
BUSINESS: OLF: 150 GSF / O; 171 / 150 = 1.14
FREEZER: OLF: 300 GSF / O; 195/ 300 = 0.65
+ INTERIOR WALLS: 18/150 = 0.12
1.14 + 0.65 + 0.12 = 1.91 + 2 OCCUPANTS

AC.1: OCCUPANT LOAD: 2

BUILDING DATA:

OCCUPANCY CLASSIFICATION:	GROUP B
TYPE OF CONSTRUCTION:	TYPE V-B
AUTOMATIC FIRE SPRINKLERS:	YES
FIRE ALRM SYSTEM	YES
BUILDING AREA(S):	
AB (MEDICAL):	2,758 SF
AC (DOG CLINIC):	5,934 SF
AC.1 (EUTHANASIA):	462 SF
ALLOWABLE HEIGHT PER TABLE 504.3:	60'-0"
ALLOWABLE STORIES PER TABLE 504.4:	3
ALLOWABLE AREA FACTOR PER TABLE 506.2:	27,000
ACTUAL STORIES:	1
ACTUAL BUILDING HEIGHT(S):	
AB:	22'-5"
AC:	20-1/2"
AC.1:	15'-6"

AREA MODIFICATION PER SECTION 506.2.1 (EQUATION 5-1)
$A_a = [A_t + (NS \times I_f)]$; 27,000 = [27,000 + (19,000 x 0)]

FRONTAGE INCREASE (TABLE 506.3.3)
% OF PERIMETER: 75 TO 100; OPEN SPACE: 0 TO LESS THAN 20; NO INCREASE

EGRESS DATA:

EXIT WIDTH REQUIRED PER CBC SECTION 1005:
AB: 17 x 0.2 = 3.4"; AC: 36 x 0.2 = 7.2"; AC.1: 2 x 0.2 = 0.4"

TOTAL EXIT WIDTH REQUIRED: AB = 3.4"; PROVIDED: AB = 72"
TOTAL EXIT WIDTH REQUIRED: AC = 7.2"; PROVIDED: AC = 72"
TOTAL EXIT WIDTH REQUIRED: AC.1 = 0.4"; PROVIDED: AB = 36"

NUMBER OF EXITS REQUIRED PER TABLE 1006.3.3:
EXITS REQUIRED: 2; EXITS PROVIDED: 2

EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2:
GROUP B: 300 FT

MINIMUM EXIT SEPARATION REQUIRED PER SECTION 1007.1.1 EXCEPTION 2 FOR SPRINKLERED BUILDINGS. NOT LESS THAN 1/3 OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED:

MAXIMUM DIAGONAL DISTANCE = SEE PLAN
MINIMUM SEPARATION REQUIRED = SEE PLAN
MINIMUM SEPARATION PROVIDED = SEE PLAN

LANDINGS ON EACH SIDE OF DOORS SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE DOORWAY.THRESHOLDS SHALL BE PROVIDED FOR TRANSITION WITH 1/4" MAXIMUM VERTICAL CHANGE IN LEVEL IN CONFORMANCE WITH CBC SECTION 1010.1.7.

KEYNOTE LEGEND

CSI #	KEYNOTE TEXT
10.01	Tactile Room Name Sign. See Detail 12/A-502
10.02	Tactile Exit Route Sign. See Detail 8/G-501
10.03	Tactile Exit Sign. See Detail 7/G-501
10.42	Toilet Room Sigange. See Detail 16/G-501

WALL TYPE LEGEND

STEEL STUDS PER SCHEDULE

CMU MASONRY UNIT

WALL TYPE SCHEDULE

W-1	6" STEEL STUDS @ 16" O.C. W/ R-19 BATT, R-14 RIGID INSULATION & TRESPA EXT.
W-2	6" STEEL STUDS @ 16" O.C. W/ R-19 BATT, R-14 RIGID INSULATION & STUCCO EXT.
W-3	4" STEEL STUDS @ 24" O.C. GYP. BD. BOTH SIDES
W-4	4" STEEL STUDS @16" O.C. GYP. BD. BOTH SIDES
W-5	6" STEEL STUDS @ 16" O.C. w/ 5/8" GYP. BD. BOTH SIDES
W-6	8" MASONRY CMU BLOCK
W-7	6" STEEL STUDS, SPACING PER STRUCTURAL, FINISH PER ELVATIONS
W-8	6" MASONRY CMU BLOCK - LOW WALL AT KENNELS - SEE 5/AE8
W-9	12" MASONRY CMU BLOCK

MILLER
architecture
interiors
planning
1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT GARY W. MILLER No. C 14635 REN. 9-30-25 STATE OF CALIFORNIA

"Shelter Planners of America"

owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment
1	2/24	PCC Response #1

ANIMAL CARE CENTER
18313 VALLEY BLVD.
BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-8988

PROJECT INFORMATION

Project Number:	2200065.RA
Drawn By:	Author
Checked By:	GWM
Issue Date:	2/29/24

SHEET NAME

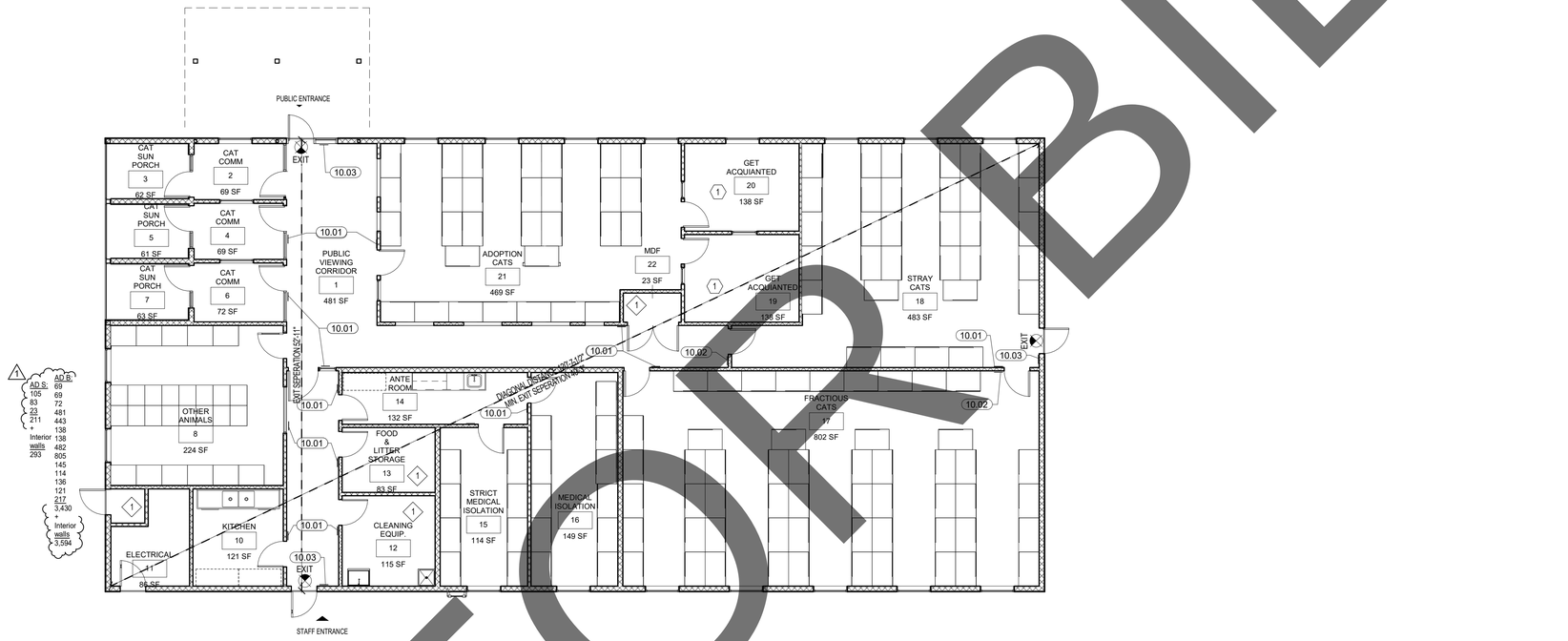
CODE PLAN ANALYSIS BLDG. AB & AC

SHEET NUMBER

G-008

Sheet Of Sheets

Z:\PROJECTS\2022 Projects\SB CO Bloomington Animal Care Facility 2200065.RA\Drawings\Schematic Design\San Bernardino_AB-C_Medical Clinic and Dog_R22.rvt



FLOOR PLAN - CAT AND OTHER ANIMALS BUILDING

SCALE 1/8" = 1'-0"

1

SIGNS AND IDENTIFICATION NOTES:

1. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
2. WHEN SIGNS IDENTIFY PERMANENT ROOMS AND SPACES OF A BUILDING OR SITE, THEY SHALL COMPLY WITH CBC 11B-216
3. TACTILE EXIT SIGNS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:
   A. PRIMARY ENTRANCES AND DIRECTIONAL SIGNS ON THE ACCESSIBLE ROUTE AND PATH OF TRAVEL.
   B. EACH GRADE LEVEL EXTERIOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD "EXIT".
   C. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".

ASSISTIVE LISTENING DEVICES:

THE NUMBER OF REQUIRED ASSISTIVE LISTENING DEVICES IS 4% OF TOAL OCCUPANCY (NO LESS THAN 2), AND A MINIMUM 25% (NO LESS THAN 2) REQUIRED TO BE HEARING AID COMPATABLE.

ASSISTIVE LISTENING SYSTEMS SHALL COMPLY WITH SECTION 11B-219.3 AND 11B-706 OF THE CBC.

OCCUPANCY: MULTI-PURPOSE ROOM = 75

TOTAL= 75 x .04 = 3 TOTAL DEVICES REQUIRED (HEARING AID COMPATIBLE)

PLUMBING FIXTURE DATA:

CPC TABLE 4-1: **
DOG KENNELS ARE FIXED EQUIPMENT AND THEREFORE CONSIDERED AS ACCESSORY AREAS NOT INCLUDED IN PLUMBING CALCULATION

OLF FROM CPC TABLE 4-1:	B(150)	S(4,000)	TOTAL
CAT BUILDING AD:	OL=20	OL=1	21

21/2 = 10.5 = 11: 11 MEN AND 11 WOMEN

FIXTURES REQUIRED: CPC TABLE 422.1

A3:	MALE:	FEMALE:
WC:	1-50 = 1	WC: 1-25 = 1
LAV:	1-200 = 1	LAV: 1-100 = 1
URINAL:	1-100 = 1	
DRINKING FOUNTAIN	1-150 = 1	

B:	MALE:	FEMALE:
WC:	1-50 = 1	WC: 1-15 = 1
LAV:	1-75 = 1	LAV: 1-50 = 1
URINAL:	1-100 = 1	
DRINKING FOUNTAIN	1-150 = 1	

S2:	MALE:	FEMALE:
WC:	1-100 = 1	WC: 1-100 = 1
LAV:	1-200 = 1	LAV: 1-200 = 1
URINAL:	N.A.	
DRINKING FOUNTAIN	1-150 = 1	

TOTAL FIXTURES REQUIRED:

MALE:		FEMALE:	
WC:	1	WC:	1
LAV:	1	LAV:	1
URINAL:	1		
DRINKING FOUNTAINS	1		
SERVICE SINK	1		

TOTAL FIXTURES PROVIDED:

MALE:		FEMALE:	
WC:	1	WC:	2
LAV:	1	LAV:	1
URINAL:	1		
DRINKING FOUNTAINS	1		
SERVICE SINK	2		

OCCUPANCY PLAN LEGEND:

CBC TABLE 1004.5: OCCUPANT LOAD FACTOR (OLF)

150 BUSINESS AREAS 150 GROSS

300 STORAGE 300 GROSS

EGRESS PATH OF TRAVEL

EXIT SIGN - SEE DETAIL 14/G-501

PH PANIC HARDWARE - SEE SHEET A-601

R# ACCESSIBLE RESTROOM SIGN - SEE 7/G-501

R2 WOMEN'S RESTROOM
R3 MEN'S RESTROOM

OCCUPANCY LOAD DATA:

BUILDING FOOTPRINT: 5,830 SF

BUSINESS: OLF: 150 SF/ O; 3,594 / 150 = 23.96 = 24 OCCUPANTS

ACCESSORY STORAGE: OLF: 300 SF / O; 286 / 300 = 0.95 =1 OCCUPANTS

BUILDING OCCUPANT LOAD: 24 + 1 = 25

BUILDING DATA:

OCCUPANCY CLASSIFICATION:	GROUP B
TYPE OF CONSTRUCTION:	TYPE V-B
AUTOMATIC FIRE SPRINKLERS:	YES
FIRE ALRM SYSTEM	YES
BUILDING AREA:	5,830 SF
ALLOWABLE HEIGHT PER TABLE 504.3:	60'-0"
ALLOWABLE STORIES PER TABLE 504.4:	3
ALLOWABLE AREA FACTOR PER TABLE 506.2:	27,000
ACTUAL STORIES:	1
ACTUAL BUILDING HEIGHT:	24'-4"

AREA MODIFICATION PER SECTION 506.2.1 (EQUATION 5-1)
$A_a = [A_t + (NS \times I_f)]$; 27,000 = [27,000 + (19,000 x 0)]

FRONTAGE INCREASE (TABLE 506.3.3)
% OF PERIMETER: 75 TO 100; OPEN SPACE: 0 TO LESS THAN 20; NO INCREASE

EGRESS DATA:

EXIT WIDTH REQUIRED PER CBC SECTION 1005:
BUILDING OCCUPANT LOAD: 25 x 0.2 = 5"

TOTAL EXIT WIDTH REQUIRED: 5";
TOTAL EXIT WIDTH PROVIDED: 108"

NUMBER OF EXITS REQUIRED PER TABLE 1006.3.3:
EXITS REQUIRED: 2; EXITS PROVIDED: 7

EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2:
GROUP B: 300 FT

MINIMUM EXIT SEPARATION REQUIRED PER SECTION 1007.1.1 EXCEPTION 2 FOR SPRINKLERED BUILDINGS. NOT LESS THAN 1/3 OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED:

MAXIMUM DIAGONAL DISTANCE = SEE PLAN
MINIMUM SEPARATION REQUIRED = SEE PLAN
MINIMUM SEPARATION PROVIDED = SEE PLAN

LANDINGS ON EACH SIDE OF DOORS SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE DOORWAY.THRESHOLDS SHALL BE PROVIDED FOR TRANSITION WITH 1/4" MAXIMUM VERTICAL CHANGE IN LEVEL IN CONFORMANCE WITH CBC SECTION 1010.1.7.

KEYNOTE LEGEND

CSI#	KEYNOTE TEXT
10.01	Tactile Room Name Sign. See Detail 12/A-502
10.02	Tactile Exit Route Sign. See Detail 8/G-501
10.03	Tactile Exit Sign. See Detail 7/G-501

WALL TYPE LEGEND

STEEL STUDS PER SCHEDULE

WALL TYPE SCHEDULE

W-1	6" STEEL STUDS @ 16" O.C. W/ R-19 BATT, R-14 RIGID INSULATION & TRESPA EXT.
W-2	6" STEEL STUDS @ 16" O.C. W/ R-19 BATT, R-14 RIGID INSULATION & STUCCO EXT.
W-3	4" STEEL STUDS @ 24" O.C. GYP. BD. BOTH SIDES
W-4	4" STEEL STUDS @16" O.C. GYP. BD. BOTH SIDES
W-5	6" STEEL STUDS @ 16" O.C. w/ 5/8" GYP. BD. BOTH SIDES
W-6	8" MASONRY CMU BLOCK
W-7	6" STEEL STUDS, SPACING PER STRUCTURAL, FINISH PER ELVATIONS
W-8	6" MASONRY CMU BLOCK
W-9	12" MASONRY CMU BLOCK

MILLER
architecture
interiors
planning

1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT
GARY W. MILLER
No. C-14635
REN. 9-30-25
STATE OF CALIFORNIA

"Shelter Planners of America"

owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment
1	2/24	PCC Response #1

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-9988

PROJECT INFORMATION

Project Number:	2200065
Drawn By:	Author
Checked By:	GWM
Issue Date:	2/29/24

SHEET NAME

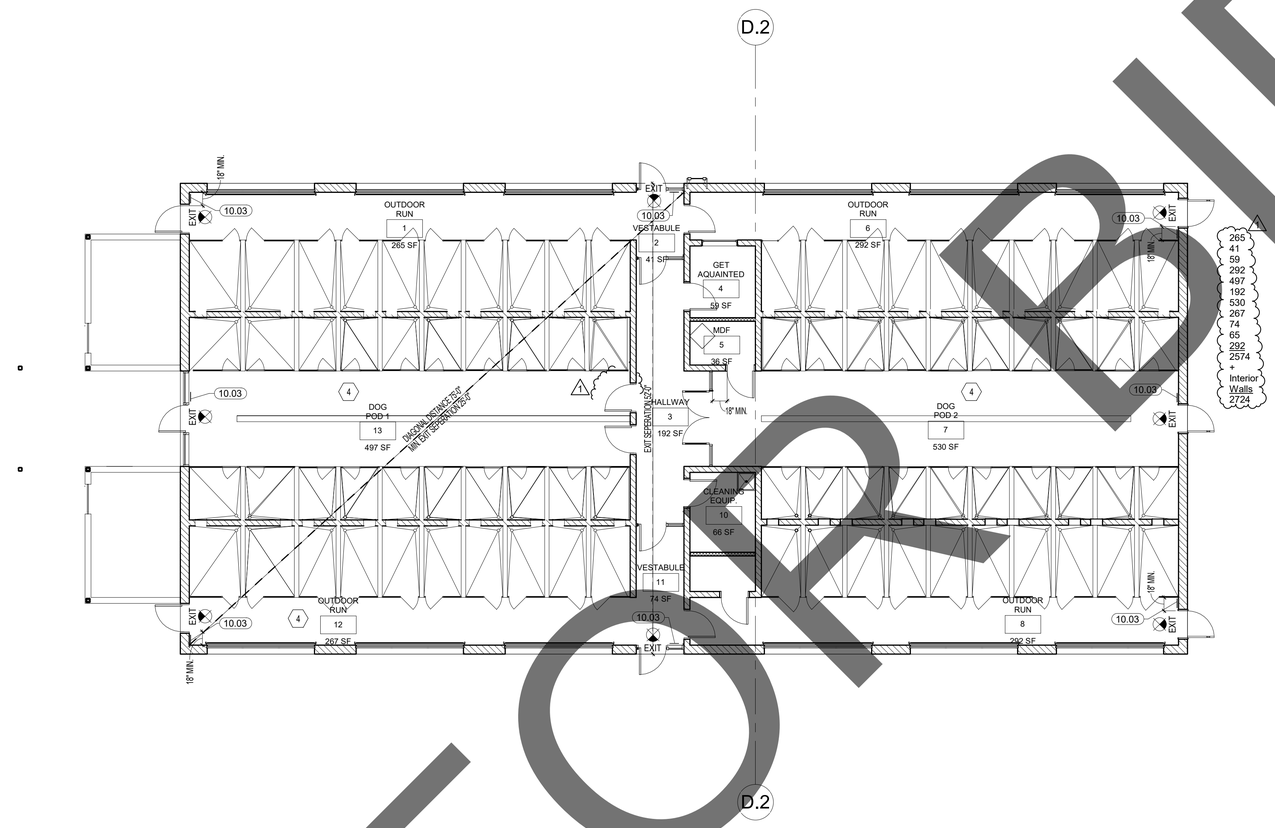
CODE ANALYSIS BUILDING AD

SHEET NUMBER

G-009

Sheet Of Sheets

Z:\PROJECTS\2022 Projects\SB CO Bloomington Animal Care Facility 2200065.RA\Drawings\Schematic Design\San Bernardino_AD_Cat Building_R22.rvt



0' 4' 8' 16' 32'

SCALE: 1/8" = 1'-0"

CODE FLOOR PLAN - ADOPTION DOG BUILDING 5, 6, & 7

SCALE 1/8" = 1'-0" | 1

SIGNS AND IDENTIFICATION NOTES:

1. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.

2. WHEN SIGNS IDENTIFY PERMANENT ROOMS AND SPACES OF A BUILDING OR SITE, THEY SHALL COMPLY WITH CBC 11B-216

3. TACTILE EXIT SIGNS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:
   A. PRIMARY ENTRANCES AND DIRECTIONAL SIGNS ON THE ACCESSIBLE ROUTE AND PATH OF TRAVEL.
   B. EACH GRADE LEVEL EXTERIOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD "EXIT".
   C. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".

ASSISTIVE LISTENING DEVICES:

THE NUMBER OF REQUIRED ASSISTIVE LISTENING DEVICES IS 4% OF TOAL OCCUPANCY (NO LEES THAN 2), AND A MINIMUM 25% (NO LESS THAN 2) REQUIRED TO BE HEARING AID COMPATABLE.

ASSISTIVE LISTENING SYSTEMS SHALL COMPLY WITH SECTION 11B-219.3 AND 11B-706 OF THE CBC.

OCCUPANCY: MULTI-PURPOSE ROOM = 75

TOTAL= 75 x .04 = 3 TOTAL DEVICES REQUIRED (HEARING AID COMPATIBLE)

OCCUPANCY PLAN LEGEND:

CBC TABLE 1004.5: OCCUPANT LOAD FACTOR (OLF)

150 BUSINESS AREA 150 GROSS

300 STORAGE 300 GROSS

EGRESS PATH OF TRAVEL

EXIT SIGN - SEE DETAIL 14/G-501

PH PANIC HARDWARE - SEE SHEET A-601

R# ACCESSIBLE RESTROOM SIGN - SEE 7/G-501
R2 WOMEN'S RESTROOM
R3 MEN'S RESTROOM

OCCUPANCY LOAD DATA:

TOTAL AREA FOOTPRINT:	5,824 SF
TOTAL AREA INSIDE WALLS:	5,607 SF
TOTAL AREA DOG KENNELS:	2,818 SF
TOTAL AREA LESS DOG KENNELS:	2,789 SF

BUSINESS: OLF: 150 SF/ O; 2,724 / 150 = 18.16 = 19 OCCUPANTS
ACCESSORY STORAGE: OLF: 300/SF /O; 65/300 = 0.2 = 1

BUILDING OCCUPANT LOAD: 19

BUILDING DATA:

OCCUPANCY CLASSIFICATION:	GROUP B
TYPE OF CONSTRUCTION:	TYPE V-B
AUTOMATIC FIRE SPRINKLERS:	YES
FIRE ALRM SYSTEM	YES
BUILDING AREA:	5,824 SF
ALLOWABLE HEIGHT PER TABLE 504.3:	60'-0"
ALLOWABLE STORIES PER TABLE 504.4:	3
ALLOWABLE AREA FACTOR PER TABLE 506.2:	27,000
ACTUAL STORIES:	1
ACTUAL BUILDING HEIGHT:	20'-2 1/2"

1

AREA MODIFICATION PER SECTION 506.2.1 (EQUATION 5-1)
$A_a = [A_t + (NS \times I_f)]$; 27,000 = [27,000 + (19,000 x 0)]

FRONTAGE INCREASE (TABLE 506.3.3)
% OF PERIMETER: 75 TO 100; OPEN SPACE: 0 TO LESS THAN 20; NO INCREASE

EGRESS DATA:

EXIT WIDTH REQUIRED PER CBC SECTION 1005:
BUILDING OCCUPANT LOAD: 19 x 0.2 = 3.8"

TOTAL EXIT WIDTH REQUIRED: 3.8";
TOTAL EXIT WIDTH PROVIDED: 288"

NUMBER OF EXITS REQUIRED PER TABLE 1006.3.3:
EXITS REQUIRED: 2; EXITS PROVIDED: 8

EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2:
GROUP B: 300 FT

MINIMUM EXIT SEPARATION REQUIRED PER SECTION 1007.1.1 EXCEPTION 2 FOR SPRINKLERED BUILDINGS. NOT LESS THAN 1/3 OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED:

MAXIMUM DIAGONAL DISTANCE =	SEE PLAN
MINIMUM SEPARATION REQUIRED =	SEE PLAN
MINIMUM SEPARATION PROVIDED =	SEE PLAN

LANDINGS ON EACH SIDE OF DOORS SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE DOORWAY.THRESHOLDS SHALL BE PROVIDED FOR TRANSITION WITH 1/4" MAXIMUM VERTICAL CHANGE IN LEVEL IN CONFORMANCE WITH CBC SECTION 1010.1.7.

KEYNOTE LEGEND

CSI #	KEYNOTE TEXT
10.03	Tactile Exit Sign. See Detail 7/G-501

WALL TYPE LEGEND

STEEL STUDS PER SCHEDULE

CMU MASONRY UNIT

LOW CMU WALL

WALL TYPE SCHEDULE

W-1	6" STEEL STUDS @ 16" O.C. W/ R-19 BATT, R-14 RIGID INSULATION & TRESPA EXT.
W-2	6" STEEL STUDS @ 16" O.C. W/ R-19 BATT, R-14 RIGID INSULATION & STUCCO EXT.
W-3	4" STEEL STUDS @ 24" O.C. GYP. BD. BOTH SIDES
W-4	4" STEEL STUDS @16" O.C. GYP. BD. BOTH SIDES
W-5	6" STEEL STUDS @ 16" O.C. w/ 5/8" GYP. BD. BOTH SIDES
W-6	8" MASONRY CMU BLOCK
W-7	6" STEEL STUDS, SPACING PER STRUCTURAL, FINISH PER ELVATIONS
W-8	6" MASONRY CMU BLOCK
W-9	12" MASONRY CMU BLOCK

MILLER
architecture
interiors
planning

1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT
GARY W. MILLER
No. C-14635
REN. 9-30-25
STATE OF CALIFORNIA

"Shelter Planners of America"

owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment
1	9/13/17	Revision 1

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-8988

PROJECT INFORMATION

Project Number:	2200065
Drawn By:	Author
Checked By:	GWM
Issue Date:	2/29/24

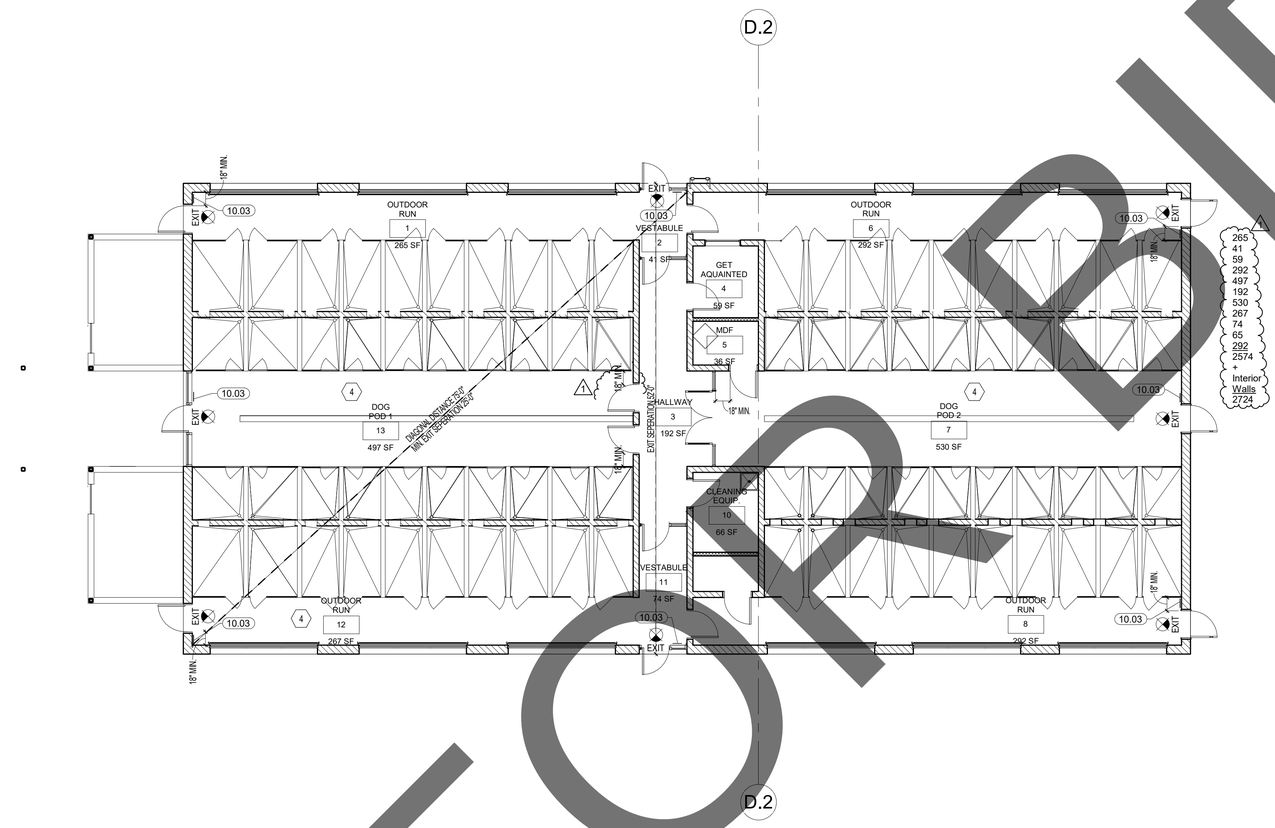
SHEET NAME

CODE ANALYSIS BLDG'S AE-H.1

SHEET NUMBER

G-010

Sheet Of Sheets



0' 4' 8' 16' 32'

SCALE: 1/8" = 1'-0"

CODE FLOOR PLAN - ADOPTION DOG BUILDING 5, 6, & 7

SCALE 1/8" = 1'-0" | 1

SIGNS AND IDENTIFICATION NOTES:

1. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
2. WHEN SIGNS IDENTIFY PERMANENT ROOMS AND SPACES OF A BUILDING OR SITE, THEY SHALL COMPLY WITH CBC 11B-216
3. TACTILE EXIT SIGNS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:
   A. PRIMARY ENTRANCES AND DIRECTIONAL SIGNS ON THE ACCESSIBLE ROUTE AND PATH OF TRAVEL.
   B. EACH GRADE LEVEL EXTERIOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD "EXIT".
   C. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".

ASSISTIVE LISTENING DEVICES:

THE NUMBER OF REQUIRED ASSISTIVE LISTENING DEVICES IS 4% OF TOAL OCCUPANCY (NO LEES THAN 2), AND A MINIMUM 25% (NO LESS THAN 2) REQUIRED TO BE HEARING AID COMPATABLE.

ASSISTIVE LISTENING SYSTEMS SHALL COMPLY WITH SECTION 11B-219.3 AND 11B-706 OF THE CBC.

OCCUPANCY: MULTI-PURPOSE ROOM = 75

TOTAL= 75 x .04 = 3 TOTAL DEVICES REQUIRED (HEARING AID COMPATIBLE)

OCCUPANCY PLAN LEGEND:

CBC TABLE 1004.5: OCCUPANT LOAD FACTOR (OLF)

150 BUSINESS AREA 150 GROSS

300 STORAGE 300 GROSS

EGRESS PATH OF TRAVEL

EXIT SIGN - SEE DETAIL 14/G-501

PH PANIC HARDWARE - SEE SHEET A-601

R# ACCESSIBLE RESTROOM SIGN - SEE 7/G-501

R2 WOMEN'S RESTROOM
R3 MEN'S RESTROOM

OCCUPANCY LOAD DATA:

TOTAL AREA FOOTPRINT:	5,824 SF
TOTAL AREA INSIDE WALLS:	5,607 SF
TOTAL AREA DOG KENNELS:	2,818 SF
TOTAL AREA LESS DOG KENNELS:	2,789 SF

BUSINESS: OLF: 150 SF/ O; 2,724 / 150 = 18.16 = 19 OCCUPANTS
ACCESSORY STORAGE: OLF: 300/SF /O; 65/300 = 0.2 = 1

BUILDING OCCUPANT LOAD: 19

BUILDING DATA:

OCCUPANCY CLASSIFICATION:	GROUP B
TYPE OF CONSTRUCTION:	TYPE V-B
AUTOMATIC FIRE SPRINKLERS:	YES
FIRE ALRM SYSTEM	YES
BUILDING AREA:	5,824 SF
ALLOWABLE HEIGHT PER TABLE 504.3:	60'-0"
ALLOWABLE STORIES PER TABLE 504.4:	3
ALLOWABLE AREA FACTOR PER TABLE 506.2:	27,000
ACTUAL STORIES:	1
ACTUAL BUILDING HEIGHT:	20'-2 1/2"

AREA MODIFICATION PER SECTION 506.2.1 (EQUATION 5-1)
$A_a = [A_t + (NS \times I_f)]$; 27,000 = [27,000 + (19,000 x 0)]

FRONTAGE INCREASE (TABLE 506.3.3)
% OF PERIMETER: 75 TO 100; OPEN SPACE: 0 TO LESS THAN 20; NO INCREASE

EGRESS DATA:

EXIT WIDTH REQUIRED PER CBC SECTION 1005:
BUILDING OCCUPANT LOAD: 19 x 0.2 = 3.8"

TOTAL EXIT WIDTH REQUIRED: 3.8";
TOTAL EXIT WIDTH PROVIDED: 288"

NUMBER OF EXITS REQUIRED PER TABLE 1006.3.3:
EXITS REQUIRED: 2; EXITS PROVIDED: 8

EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2:
GROUP B: 300 FT

MINIMUM EXIT SEPARATION REQUIRED PER SECTION 1007.1.1 EXCEPTION 2 FOR SPRINKLERED BUILDINGS. NOT LESS THAN 1/3 OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED:

MAXIMUM DIAGONAL DISTANCE =	SEE PLAN
MINIMUM SEPARATION REQUIRED =	SEE PLAN
MINIMUM SEPARATION PROVIDED =	SEE PLAN

LANDINGS ON EACH SIDE OF DOORS SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE DOORWAY.THRESHOLDS SHALL BE PROVIDED FOR TRANSITION WITH 1/4" MAXIMUM VERTICAL CHANGE IN LEVEL IN CONFORMANCE WITH CBC SECTION 1010.1.7.

KEYNOTE LEGEND

CSI #	KEYNOTE TEXT
10.03	Tactile Exit Sign. See Detail 7/G-501

WALL TYPE LEGEND

STEEL STUDS PER SCHEDULE

CMU MASONRY UNIT

LOW CMU WALL

WALL TYPE SCHEDULE

W-1	6" STEEL STUDS @ 16" O.C. W/ R-19 BATT, R-14 RIGID INSULATION & TRESPA EXT.
W-2	6" STEEL STUDS @ 16" O.C. W/ R-19 BATT, R-14 RIGID INSULATION & STUCCO EXT.
W-3	4" STEEL STUDS @ 24" O.C. GYP. BD. BOTH SIDES
W-4	4" STEEL STUDS @16" O.C. GYP. BD. BOTH SIDES
W-5	6" STEEL STUDS @ 16" O.C. w/ 5/8" GYP. BD. BOTH SIDES
W-6	8" MASONRY CMU BLOCK
W-7	6" STEEL STUDS, SPACING PER STRUCTURAL, FINISH PER ELVATIONS
W-8	6" MASONRY CMU BLOCK
W-9	12" MASONRY CMU BLOCK

MILLER
architecture
interiors
planning

1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT
GARY W. MILLER
No. C14635
REN. 9-30-25
STATE OF CALIFORNIA

"Shelter Planners of America"

owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment
1	9/13/17	Revision 1

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-8988

PROJECT INFORMATION

Project Number:	2200065
Drawn By:	Author
Checked By:	GWM
Issue Date:	2/29/24

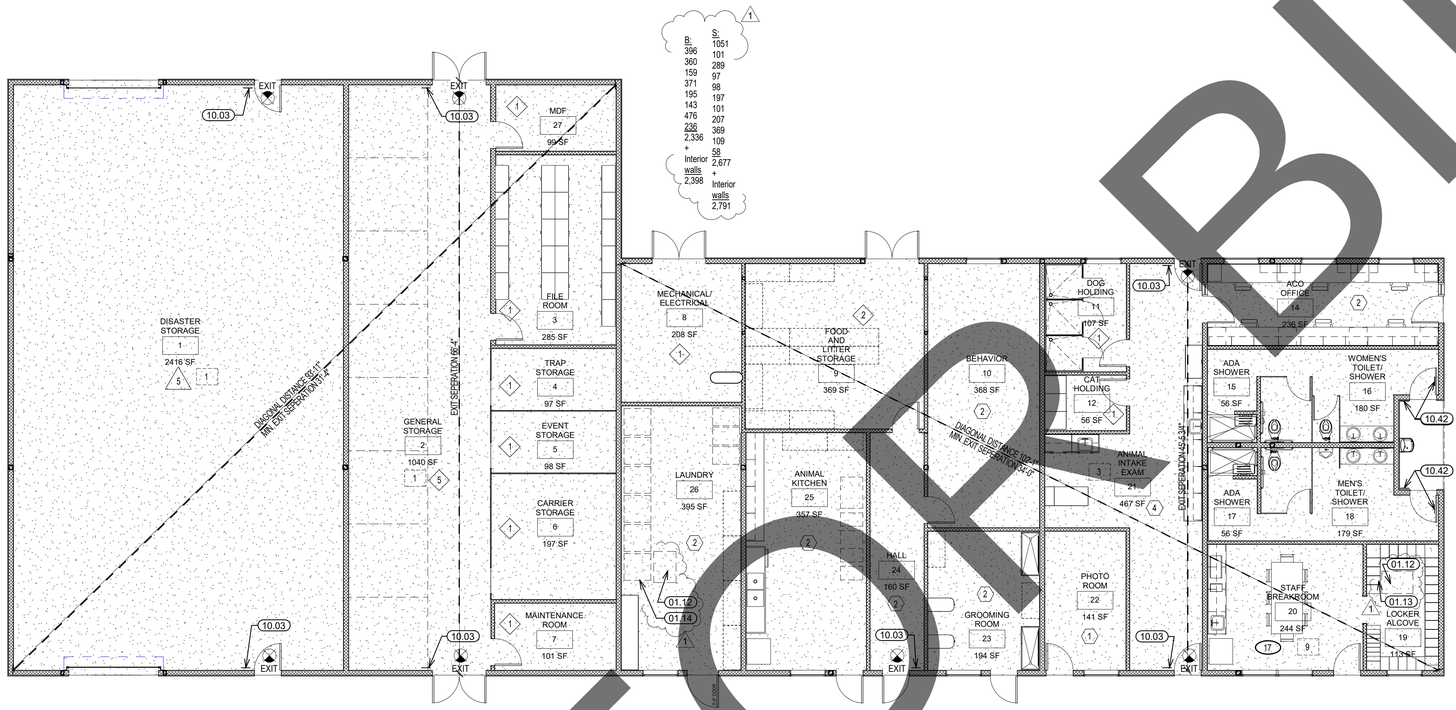
SHEET NAME

CODE ANALYSIS BLDG'S AE-H.1

SHEET NUMBER

G-010

Sheet Of Sheets



CODE FLOOR PLAN

SCALE 1/8" = 1'-0" | 1

SIGNS AND IDENTIFICATION NOTES:

1. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
2. WHEN SIGNS IDENTIFY PERMANENT ROOMS AND SPACES OF A BUILDING OR SITE, THEY SHALL COMPLY WITH CBC 11B-216
3. TACTILE EXIT SIGNS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:
   A. PRIMARY ENTRANCES AND DIRECTIONAL SIGNS ON THE ACCESSIBLE ROUTE AND PATH OF TRAVEL.
   B. EACH GRADE LEVEL EXTERIOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD "EXIT".
   C. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".

ASSISTIVE LISTENING DEVICES:

THE NUMBER OF REQUIRED ASSISTIVE LISTENING DEVICES IS 4% OF TOAL OCCUPANCY (NO LEES THAN 2), AND A MINIMUM 25% (NO LESS THAN 2) REQUIRED TO BE HEARING AID COMPATABLE.

ASSISTIVE LISTENING SYSTEMS SHALL COMPLY WITH SECTION 11B-219.3 AND 11B-706 OF THE CBC.

OCCUPANCY: MULTI-PURPOSE ROOM = 75

TOTAL= 75 x .04 = 3 TOTAL DEVICES REQUIRED (HEARING AID COMPATIBLE)

PLUMBING FIXTURE DATA:

OLF FROM CPC TABLE 4-1:	A3(15)	B(200)	S(4,000)	TOTAL
SUPPORT BUILDING	OL=9	OL=12	OL=2	23

23/2 = 11.5 = 12: 12 MEN AND 12 WOMEN

NOTE:
KENNEL OCCUPANTS USE PLUMBING FACILITIES HERE:

ADD: 4 MEN AND 4 WOMEN
TOTAL: 16 MEN AND 16 WOMEN

FIXTURES REQUIRED: CPC TABLE 422.1

A3:	MALE:	FEMALE:
WC:	1-50 = 1	WC: 1-25 = 1
LAV:	1-200 = 1	LAV: 1-100 = 1
URINAL:	1-100 = 1	
DRINKING FOUNTAIN	1-150 = 1	

B:	MALE:	FEMALE:
WC:	1-50 = 1	WC: 1-15 = 1
LAV:	1-75 = 1	LAV: 1-50 = 1
URINAL:	1-100 = 1	
DRINKING FOUNTAIN	1-150 = 1	

S2:	MALE:	FEMALE:
WC:	1-100 = 1	WC: 1-100 = 1
LAV:	1-200 = 1	LAV: 1-200 = 1
URINAL:	N.A.	
DRINKING FOUNTAIN	1-150 = 1	

TOTAL FIXTURES REQUIRED:

MALE:	FEMALE:
WC: 1	WC: 1
LAV: 1	LAV: 1
URINAL: 1	
DRINKING FOUNTAINS	1
SERVICE SINK	1

TOTAL FIXTURES PROVIDED:

MALE:	FEMALE:
WC: 1	WC: 2
LAV: 1	LAV: 1
URINAL: 1	
DRINKING FOUNTAINS	1
SERVICE SINK	2

OCCUPANCY PLAN LEGEND:

CBC TABLE 1004.5: OCCUPANT LOAD FACTOR (OLF)

- 150 — BUSINESS AREAS 150 GROSS
- 500 — WAREHOUSE 500 GROSS
- 300 — STORAGE 300 GROSS
- 15 — ASSEMBLY, BREAKROOM 15 NET
- EGRESS PATH OF TRAVEL
- EXIT SIGN - SEE DETAIL 14/G-501
- PH — PANIC HARDWARE - SEE SHEET A-601
- R# — ACCESSIBLE RESTROOM SIGN - SEE 7/G-501
  - R2 WOMEN'S RESTROOM
  - R3 MEN'S RESTROOM

OCCUPANCY LOAD DATA:

TOTAL AREA: 8,896 SF

ASSEMBLY: OLF: 15 SF/ O; 245 / 15 = 16.33 = 17 OCCUPANTS
BUSINESS: OLF: 150 SF/ O; 2,398 / 150 = 15.98 = 16 OCCUPANTS
ACCESSORY STORAGE: OLF: 300 SF / O; 2,791 / 300 = 9.30 = 10 OCCUPANTS
WAREHOUSE: OLF: 500 SF/O; 2,409/500 = 4.818 = 5 OCCUPANTS

BUILDING OCCUPANT LOAD: 17 + 16 + 10 + 5 = 48

BUILDING DATA:

OCCUPANCY CLASSIFICATION:	GROUP B
TYPE OF CONSTRUCTION:	TYPE V-B
AUTOMATIC FIRE SPRINKLERS:	YES
FIRE ALRM SYSTEM	YES
BUILDING AREA:	8,896 SF
ALLOWABLE HEIGHT PER TABLE 504.3:	60'-0"
ALLOWABLE STORIES PER TABLE 504.4:	3
ALLOWABLE AREA FACTOR PER TABLE 506.2:	27,000
ACTUAL STORIES:	1
ACTUAL BUILDING HEIGHT:	24'-4"

AREA MODIFICATION PER SECTION 506.2.1 (EQUATION 5-1)
$A_a = [A_t + (NS \times I_f)]$; 27,000 = [27,000 + (19,000 x 0)]

FRONTAGE INCREASE (TABLE 506.3.3)
% OF PERIMETER: 75 TO 100; OPEN SPACE: 0 TO LESS THAN 20; NO INCREASE

EGRESS DATA:

EXIT WIDTH REQUIRED PER CBC SECTION 1005:
BUILDING OCCUPANT LOAD: 48 x 0.2 = 9.6"

TOTAL EXIT WIDTH REQUIRED: 9.6";
TOTAL EXIT WIDTH PROVIDED: 324"

NUMBER OF EXITS REQUIRED PER TABLE 1006.3.3:
EXITS REQUIRED: 2; EXITS PROVIDED: 7

EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2:
GROUP B: 300 FT
GROUP S2: 300 FT

MINIMUM EXIT SEPARATION REQUIRED PER SECTION 1007.1.1 EXCEPTION 2 FOR SPRINKLERED BUILDINGS. NOT LESS THAN 1/3 OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED:

MAXIMUM DIAGONAL DISTANCE = SEE PLAN
MINIMUM SEPARATION REQUIRED = SEE PLAN
MINIMUM SEPARATION PROVIDED = SEE PLAN

LANDINGS ON EACH SIDE OF DOORS SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE DOORWAY.THRESHOLDS SHALL BE PROVIDED FOR TRANSITION WITH 1/4" MAXIMUM VERTICAL CHANGE IN LEVEL IN CONFORMANCE WITH CBC SECTION 1010.1.7.

KEYNOTE LEGEND

CSI #	KEYNOTE TEXT
01.12	30" x 48" Clear Floor Space
01.13	No Hooks, Shelves or Full Lenngth Mirror Provided
01.14	Top loading shall have door located 36" MAX AFF. Front loading shall have bottom opening 15" MIN to 36" MAX AFF
10.03	Tactile Exit Sign. See Detail 7/G-501
10.42	Toilet Room Sigange. See Detail 16/G-501

WALL TYPE LEGEND

- STEEL STUDS PER SCHEDULE
- CMU MASONRY UNIT

WALL TYPE SCHEDULE

- W-1 6" STEEL STUDS @ 16" O.C. W/ R-19 BATT, R-14 RIGID INSULATION & TRESPA EXT.
- W-2 6" STEEL STUDS @ 16" O.C. W/ R-19 BATT, R-14 RIGID INSULATION & STUCCO EXT.
- W-3 4" STEEL STUDS @ 24" O.C. GYP. BD. BOTH SIDES
- W-4 4" STEEL STUDS @16" O.C. GYP. BD. BOTH SIDES
- W-5 6" STEEL STUDS @ 16" O.C. w/ 5/8" GYP. BD. BOTH SIDES
- W-6 8" MASONRY CMU BLOCK
- W-7 6" STEEL STUDS, SPACING PER STRUCTURAL, FINISH PER ELVATIONS
- W-8 6" MASONRY CMU BLOCK
- W-9 12" MASONRY CMU BLOCK

MILLER
architecture
interiors
planning

1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT
GARY W. MILLER
No. C-14635
REN. 9-30-25
STATE OF CALIFORNIA

"Shelter Planners of America"

owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment
1	2/24	PCC Response #1

ANIMAL CARE CENTER
18313 VALLEY BLVD.
BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-8988

PROJECT INFORMATION

Project Number:	2200065
Drawn By:	MB
Checked By:	GWM
Issue Date:	2/29/24

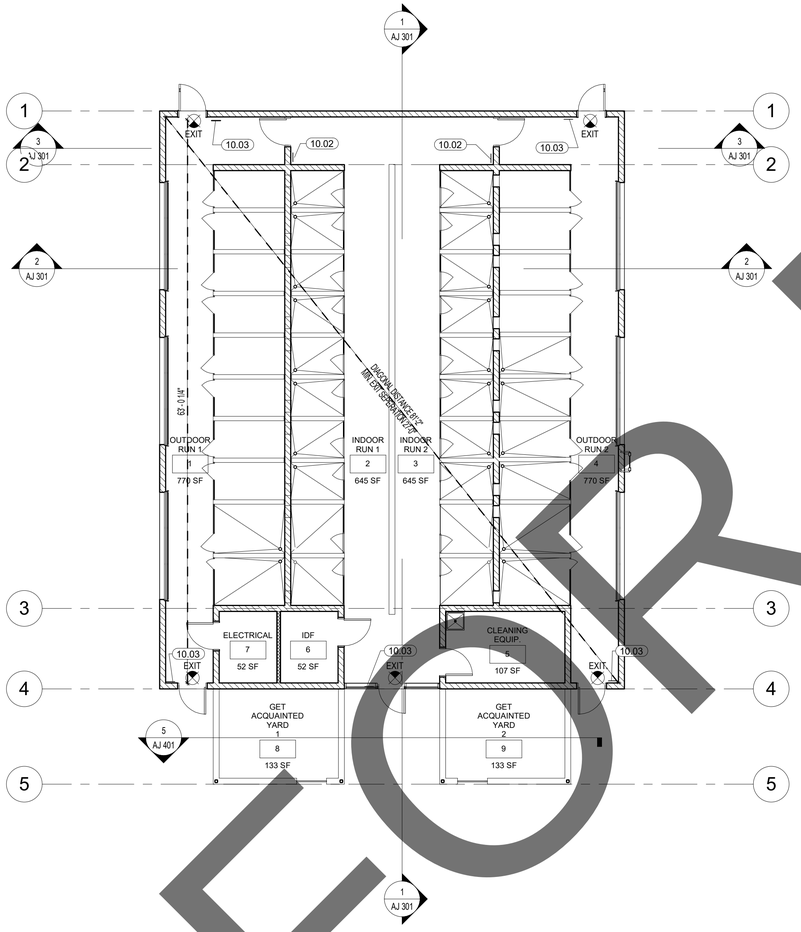
SHEET NAME

CODE ANALYSIS SUPPORT BUILDING AI

SHEET NUMBER

G-011

Sheet Of Sheets



FLOOR PLAN - ADOPTION DOG BUILDING 5, 6, & 7

SCALE 1/8" = 1'-0" | 1

SIGNS AND IDENTIFICATION NOTES:

1. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
2. WHEN SIGNS IDENTIFY PERMANENT ROOMS AND SPACES OF A BUILDING OR SITE, THEY SHALL COMPLY WITH CBC 11B-216
3. TACTILE EXIT SIGNS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:
   A. PRIMARY ENTRANCES AND DIRECTIONAL SIGNS ON THE ACCESSIBLE ROUTE AND PATH OF TRAVEL.
   B. EACH GRADE LEVEL EXTERIOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD "EXIT".
   C. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".

ASSISTIVE LISTENING DEVICES:

THE NUMBER OF REQUIRED ASSISTIVE LISTENING DEVICES IS 4% OF TOAL OCCUPANCY (NO LEES THAN 2), AND A MINIMUM 25% (NO LESS THAN 2) REQUIRED TO BE HEARING AID COMPATABLE.

ASSISTIVE LISTENING SYSTEMS SHALL COMPLY WITH SECTION 11B-219.3 AND 11B-706 OF THE CBC.

OCCUPANCY: MULTI-PURPOSE ROOM = 75

TOTAL= 75 x .04 = 3 TOTAL DEVICES REQUIRED (HEARING AID COMPATIBLE)

PLUMBING FIXTURE DATA:

CPC TABLE 4-1:
DOG KENNELS ARE FIXED EQUIPMENT AND THEREFORE CONSIDERED AS ACCESSORY AREAS NOT INCLUDED IN PLUMBING CALCULATION

B OCCUPANCY:
BUILDING AE-AH.1: (5)
GET ACQUAINTED = 59 SF / 150 = 0.39
CLEANING EQUIPMENT = 65 /150 = 0.43 = 0.39 + 0.43 = 0.82 = 1
BUILDING AJ-AK: (2)
CLEANING EQUIPMENT = 107 /150 = 0.713 = 1
ALL OTHER SPACES ARE ACCESSORY AREAS

OLF FROM CPC TABLE 4-1:	B(150)	TOTAL
DOG KENNEL BLDG'S E-H (4)	OL=1	
DOG KENNEL BLDG'S J-K (2)	OL=1	
		1(7) = 7

TOTAL OCCUPANT LOAD FOR ALL SEVEN (7) KENNEL BUILDINGS:
7/2 = 3.5: 4 MEN & 4 WOMEN

FIXTURES REQUIRED: CPC TABLE 422.1

B: MALE:	FEMALE:
WC: 1-50 = 1	WC: 1-15 = 1
LAV: 1-75 = 1	LAV: 1-50 = 1
URINAL: 1-100 = 1	
DRINKING FOUNTAIN 1-150 = 1	

NOTE:
PLUMBING FACILITIES FOR KENNEL EMPLOYEES ARE AT BUILDING AI, THE SUPPORT BUILDING

TOTAL FIXTURES REQUIRED:

MALE:	FEMALE:
WC: 1	WC: 1
LAV: 1	LAV: 1
URINAL: 1	
DRINKING FOUNTAINS	1
SERVICE SINK:	1

TOTAL FIXTURES PROVIDED:

MALE:	FEMALE:
WC: 1	WC: 2
LAV: 1	LAV: 1
URINAL: 1	
DRINKING FOUNTAINS	1
SERVICE SINK	2

OCCUPANCY PLAN LEGEND:

CBC TABLE 1004.5: OCCUPANT LOAD FACTOR (OLF)

- 150 — BUSINESS AREAS, 150 GROSS
- 500 — WAREHOUSE, 500 GROSS
- 300 — STORAGE, 300 GROSS
- 15 — ASSEMBLY, BREAKROOM, 15 NET
- EGRESS PATH OF TRAVEL
- EXIT SIGN - SEE DETAIL 14/G-501
- PH — PANIC HARDWARE - SEE SHEET A-601
- R# — ACCESSIBLE RESTROOM SIGN - SEE 7/G-501
  - R2 WOMEN'S RESTROOM
  - R3 MEN'S RESTROOM

OCCUPANCY LOAD DATA:

TOTAL AREA: 3,363 SF

BUSINESS: OLF: 150 SF/ O; 3,154 / 150 = 21.03 = 22 OCCUPANTS

BUILDING OCCUPANT LOAD: 22

BUILDING DATA:

OCCUPANCY CLASSIFICATION:	GROUP B
TYPE OF CONSTRUCTION:	TYPE V-B
AUTOMATIC FIRE SPRINKLERS:	YES
FIRE ALRM SYSTEM	YES
BUILDING AREA:	3,363 SF
ALLOWABLE HEIGHT PER TABLE 504.3:	60'-0"
ALLOWABLE STORIES PER TABLE 504.4:	3
ALLOWABLE AREA FACTOR PER TABLE 506.2:	27,000
ACTUAL STORIES:	1
ACTUAL BUILDING HEIGHT:	24'-4"

AREA MODIFICATION PER SECTION 506.2.1 (EQUATION 5-1)
$A_a = [A_t + (NS \times I_f)]$; 27,000 = [27,000 + (19,000 x 0)]

FRONTAGE INCREASE (TABLE 506.3.3)
% OF PERIMETER: 75 TO 100; OPEN SPACE: 0 TO LESS THAN 20; NO INCREASE

EGRESS DATA:

EXIT WIDTH REQUIRED PER CBC SECTION 1005:
BUILDING OCCUPANT LOAD: 22 x 0.2 = 4.4"

TOTAL EXIT WIDTH REQUIRED: 4.4";
TOTAL EXIT WIDTH PROVIDED: 324"

NUMBER OF EXITS REQUIRED PER TABLE 1006.3.3:
EXITS REQUIRED: 2; EXITS PROVIDED: 5

EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2:
GROUP B: 300 FT

MINIMUM EXIT SEPARATION REQUIRED PER SECTION 1007.1.1 EXCEPTION 2 FOR SPRINKLERED BUILDINGS. NOT LESS THAN 1/3 OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED:

MAXIMUM DIAGONAL DISTANCE = 81'-2"
MINIMUM SEPARATION REQUIRED = 27'-0"
MINIMUM SEPARATION PROVIDED = 63'-0"

LANDINGS ON EACH SIDE OF DOORS SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE DOORWAY.THRESHOLDS SHALL BE PROVIDED FOR TRANSITION WITH 1/4" MAXIMUM VERTICAL CHANGE IN LEVEL IN CONFORMANCE WITH CBC SECTION 1010.1.7.

KEYNOTE LEGEND

CSI #	KEYNOTE TEXT
10.02	Tactile Exit Route Sign. See Detail 8/G-501
10.03	Tactile Exit Sign. See Detail 7/G-501

WALL TYPE LEGEND

- STEEL STUDS PER SCHEDULE
- CMU MASONRY UNIT

WALL TYPE SCHEDULE

W-1	6" STEEL STUDS @ 16" O.C. W/ R-19 BATT, R-14 RIGID INSULATION & TRESPA EXT.
W-2	6" STEEL STUDS @ 16" O.C. W/ R-19 BATT, R-14 RIGID INSULATION & STUCCO EXT.
W-3	3 5/8" STEEL STUDS @ 24" O.C. GYP. BD. BOTH SIDES
W-4	4" STEEL STUDS @16" O.C. GYP. BD. BOTH SIDES
W-5	6" STEEL STUDS @ 16" O.C. w/ 5/8" GYP. BD. BOTH SIDES
W-6	8" MASONRY CMU BLOCK
W-7	6" STEEL STUDS, SPACING PER STRUCTURAL, FINISH PER ELVATIONS
W-8	6" MASONRY CMU BLOCK

MILLER
architecture
interiors
planning

1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT
GARY W. MILLER
No. C 14635
REN. 8-30-25
STATE OF CALIFORNIA

"Shelter Planners of America"

owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment
1	2/24	PCC Response #1

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-8988

PROJECT INFORMATION

Project Number:	2200065
Drawn By:	MB
Checked By:	GWM
Issue Date:	2/29/24

SHEET NAME

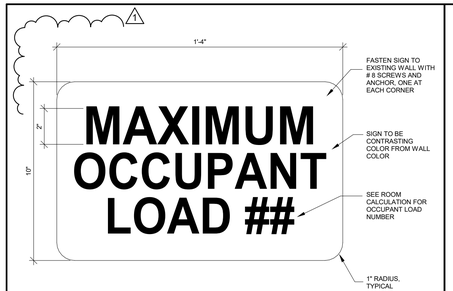
CODE ANALYSIS BLDG'S AJ & AK

SHEET NUMBER

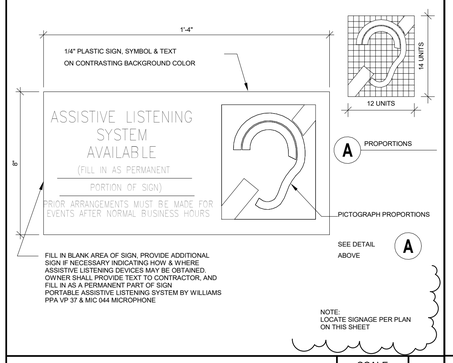
G-012 (1)

Sheet Of Sheets

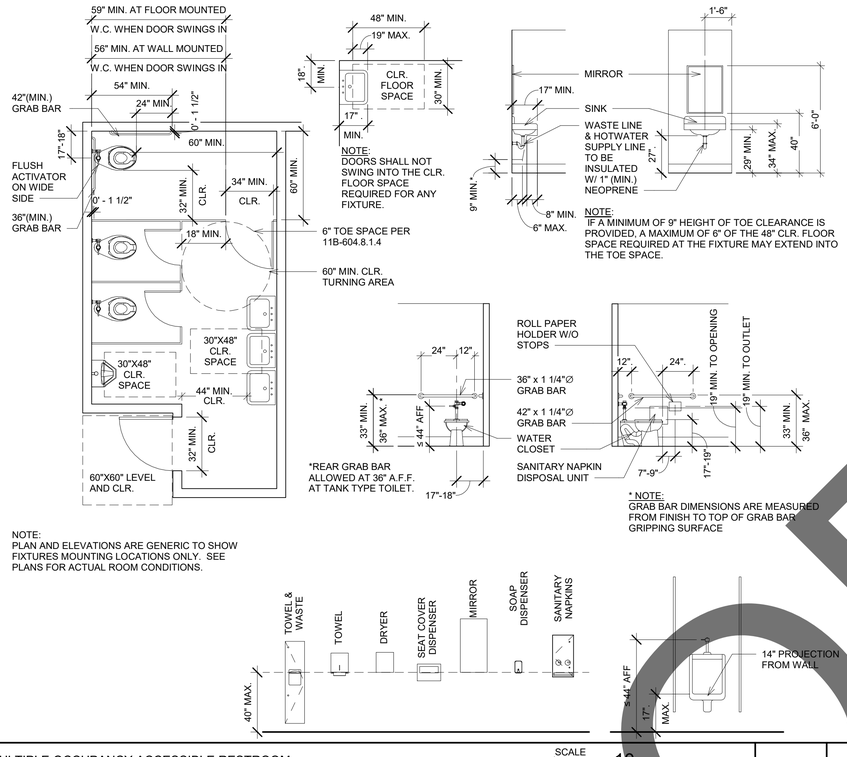
Z:\PROJECTS\2022 Projects\SB CO Bloomington Animal Care Facilty 2200065.RA\Drawings\Schematic Design\San Bernardino_AJ_Adoption Building_R22.rvt



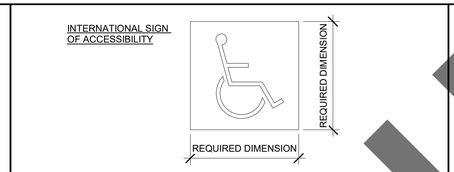
OCCUPANT LOAD SIGNAGE | SCALE 3" = 1'-0" | 17



ASSISTIVE LISTENING SIGNAGE | SCALE 3" = 1'-0" | 18



MULTIPLE OCCUPANCY ACCESSIBLE RESTROOM | SCALE 1/4" = 1'-0" | 10



SIGNS:
INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE FOLLOWING ELEMENTS AND SPACES OF ACCESSIBLE FACILITIES SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THIS SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NUMBER 15090 IN FEDERAL STANDARD 595C. A BORDER MAY BE PROVIDED INSIDE OR OUTSIDE OF THE MINIMUM REQUIRED INTERNATIONAL SYMBOL OF ACCESSIBILITY DIMENSION.

1. ACCESSIBLE PARKING SPACES, EXCEPT WHERE THE TOTAL PARKING SPACES PROVIDED ARE FIVE OR LESS.
2. ACCESSIBLE AREAS OF REFUGE.
3. ACCESSIBLE PASSENGER LOADING ZONES.
4. ACCESSIBLE TOILET AND BATHING FACILITIES.

GENERAL - ACCESSIBILITY SYMBOL | SCALE 1/4" = 1'-0" | 5

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32 INCH (0.794 mm) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED GRADE 2 BRAILLE (SEE NOTE 5 BELOW).
2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8 INCH (15.9 mm) AND A MAXIMUM OF 2 INCHES (51 mm) HEIGHT BASED ON THE HEIGHT OF THE UPPERCASE "I"
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE MINIMUM 70% MINIMUM AND HAVE A NON-GLARE FINISH. 11B-703.5.1 / 11B-703.5.2 / 11B-703.7.1
4. PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 60% MIN. AND 110% MAX. AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 10% MIN. AND 20% MAX. OF THE CHARACTER HEIGHT. 11B-703.2.4, 11B-703.2.6. 11B-703.5.7.

ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPE STYLE TO TEST, BEGIN BY PRINTING THE LETTERS "O" AND "I" AT 1 INCH HIGH. PLACE THE TEMPLATE'S 110% SQUARE OVER "O". IF THE CHARACTER IS NOT WIDER THAN 110% SQUARE, NOR NARROWER THAN 60% RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 20% RECTANGLE TO DETERMINE IF THE STROKE OF THE "I" IS TOO BROAD, AND THE 10% RECTANGLE TO SEE IF IT IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPE STYLE IS COMPLIANT WITH PROPORTION CODE.

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:

SIGNAGE GENERAL NOTES | SCALE 1/2" = 1'-0" | 6

NOTES

1. SHARP OR ABRASIVE SURFACES ARE NOT PERMITTED UNDER LAVATORIES.
2. FAUCET CONTROLS AND OPERATING MECHANISMS ARE REQUIRED TO BE OPERABLE W/ ONE HAND AND CANNOT REQUIRE GRASPING, PINCHING OR TWISTING OF THE WRIST.
3. THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL NOT EXCEED 5 FT/LBS.. SELF CLOSING VALVES ARE ALLOWED BUT SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.
4. GRAB BARS SHALL BE 1 1/4" TO 1 1/2" IN DIAMETER W/ 1 1/2" CLEARANCE FROM WALL.
5. GRAB BAR FASTENERS AND MOUNTING SUPPORTS SHALL BE ABLE TO WITHSTAND 250 FT/LBS. IN BENDING SHEAR AND TENSION.
6. CONTROLS FOR FLUSH VALVE SHALL BE MOUNTED ON THE WATER CLOSET W/ NO MORE THAN 44" ABOVE FINISH FLOOR.

IN OTHER THAN DWELLING UNITS,
TOILET ROOM FLOORS SHALL HAVE A SMOOTH HARD, NONABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL WHICH EXTENDS UPWARD ONTO THE WALLS AT LEAST 5 INCHES. WALLS WITHIN WATER CLOSET COMPARTMENTS AND WALLS WITHIN 24 INCHES OF THE FRONT AND SIDES OF URINALS SHALL BE SIMILARLY FINISHED TO A HEIGHT OF 48 INCHES AND, EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE A TYPE WHICH IS NOT ADVERSELY AFFECTED BY MOISTURE.

GENERAL CONSIDERATIONS

ACCESSIBILITY STANDARDS

THE FOLLOWING STANDARDS FOR BARRIER FREE DESIGN SHALL BE INCORPORATED INTO THE PROJECT SITE AND BUILDINGS (AS DESCRIBED BY THE 2016 CALIFORNIA BUILDING CODE (TITLE 24 & CALIFORNIA CODE OF REGULATION), AMERICANS WITH DISABILITIES ACT (ADA) WITH CABO/ANSI. SECTIONS AND DIAGRAMS ARE PROVIDED FOR QUICK REFERENCE INTERPRETATION OF THESE CODES AND REGULATIONS AND INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

ENTRANCE SIGNAGE

FINISH AND CONTRAST
THE CHARACTERS SYMBOLS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE OR OTHER NON GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

LOCATION OF SIGNAGE
TACTILE SIGNAGE SHALL BE LOCATED ALONGSIDE THE DOOR ON THE LATCH SIDE AND SHALL BE MOUNTED AT 80" ABOVE THE ADJACENT FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. IN LOCATIONS HAVING DOUBLE DOORS, TACTILE SIGNS SHALL BE MOUNTED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF THE DOOR, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL.

TACTILE SIGNAGE
1. CHARACTER WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1 WITH A 1:5 AND 1:10 STROKE WIDTH TO HEIGHT RATIO.
2. CONTRASTING COLORED CHARACTER AND SYMBOLS ON A MATTE FINISHED BACKGROUND.
3. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32 INCH MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTER ACCOMPANIED BY GRADE 2 BRAILLE.
4. RAISED SYMBOLS OR CHARACTERS SHALL BE A MINIMUM OF 5/8" HIGH.

PLUMBING NOTES

MAXIMUM FLUSH VOLUMES AND FLOW RATED: FAUCET - 2.2 GPM (SINKS & LAVS), 1.6 GPF (WATER CLOSETS). FITTINGS MANUFACTURED ON OR AFTER MARCH 20, 1992 SHALL BE MARKED WITH THESE FLOW RATINGS AND CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION

FAUCET CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL NOT EXCEED 5 POUNDS. LEVER-OPERATED, PUSH- TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM

ELECTRICAL NOTES

CONTROLS AND SWITCHES SHALL NOT BE LOCATED MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX, NOR LESS THAN 15 INCHES MEASURED BOTTOM OF THE OUTLET BOX, TO THE FINISH FLOOR LEVEL. CBC 11B-308.1.1.

ELECTRICAL RECEPTACLE OUTLETS (30 AMPS OR LESS) SHALL NOT BE LOCATED MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX, NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX, TO FINISH FLOOR LEVEL. CBC 11B-308.1.2.

WALKS AND SIDEWALKS

CONTINUOUS SURFACES
WALKS AND SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2 INCHES, AND SHALL BE A MINIMUM OF 48 INCHES IN WIDTH. SURFACES SHALL BE SLIP RESISTANT AS FOLLOWS:

SLOPES OF 6 PERCENT AND GREATER
SURFACES WITH A SLOPE OF 6 PERCENT GRADIENT SHALL BE SHALL BE SLIP RESISTANT.

SLOPES LESS THAN 6 PERCENT
SURFACES WITH A SLOPE OF LESS THAN 6 PERCENT GRADIENT SHALL BE AT LEAST AS SLIP RESISTANT AS THAT DESCRIBED AS A MEDIUM SALT FINISH.

SURFACE CROSS SLOPES
SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4 INCH PER FOOT EXCEPT WHEN THE ENFORCING AGENCY FINDS THAT DUE TO LOCAL CONDITIONS IT CREATES AS UNREASONABLE HARDSHIP, THE CROSS SLOPE SHALL BE TO A MAXIMUM OF 1/2 INCH PER FOOT FOR DISTANCES NOT TO EXCEED 20 FOOT.

GRATINGS
WALKS, SIDEWALKS AND PEDESTRIAN WAYS SHALL BE FREE FROM GRATINGS WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACES OF THESE AREAS, GRID OPENINGS IN GRATINGS SHALL BE 1/2 INCHES IN THE DIRECTION OF TRAFFIC FLOW.

FIVE PERCENT GRADIENT
SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK SHALL BE 1 VERTICAL TO 20 HORIZONTAL (5% GRADIENT). IF WALK EXCEEDS THIS STANDARD IT SHALL COMPLY WITH PROVISIONS OF THE CBC, PEDESTRIAN RAMPS.

CHANGES IN LEVEL
ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2 INCH WHEN CHANGES IN LEVEL DO OCCUR LEVEL 2:1 EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4 INCH MAY BE VERTICAL

WALKS WITH CONTINUOUS GRADIENTS
ALL WALKS WITH CONTINUOUS GRADIENT SHALL HAVE LEVEL AREAS AT LEAST 5 FEET IN LENGTH AT INTERVALS OF AT LEAST EVERY 400 FEET.

MILLER
architecture
interiors
planning

1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT
GARY W. MILLER
No. C14635
REN. 9-30-25
STATE OF CALIFORNIA

"Shelter Planners of America"

owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment
1	2/24	PCC Response #1

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-0988

PROJECT INFORMATION

Project Number:	2200065
Drawn By:	Author
Checked By:	GWM
Issue Date:	6/12/2024

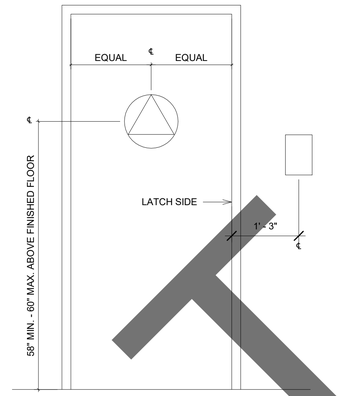
SHEET NAME

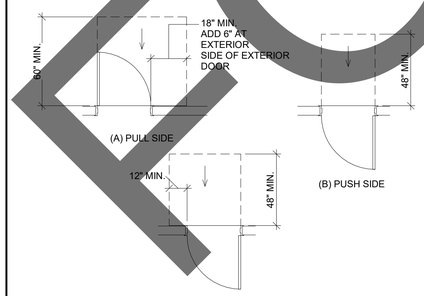
ADA DETAILS

SHEET NUMBER

G-501

Sheet Of Sheets

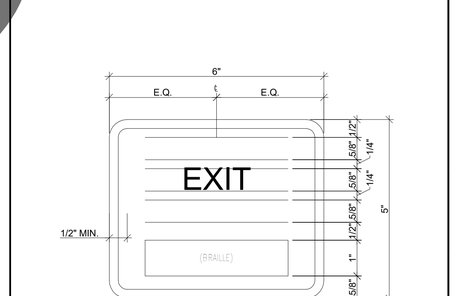




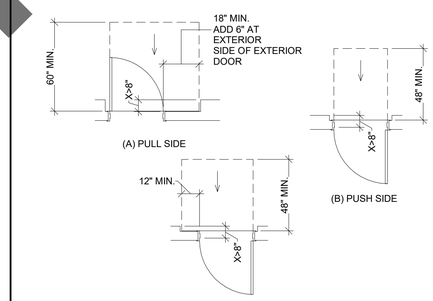
(C) PUSH SIDE
DOOR PROVIDED WITH LATCH AND CLOSER

MANEUVERING CLEARANCES AT MANUAL SWING DOORS AND GATES

GENERAL - ACCESSIBLE DOOR APPROACH | SCALE 1/4" = 1'-0" | 11



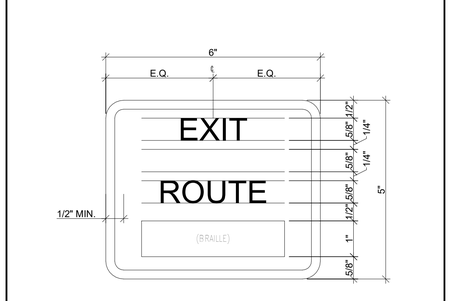
GENERAL - EXIT SIGN | SCALE 6" = 1'-0" | 7



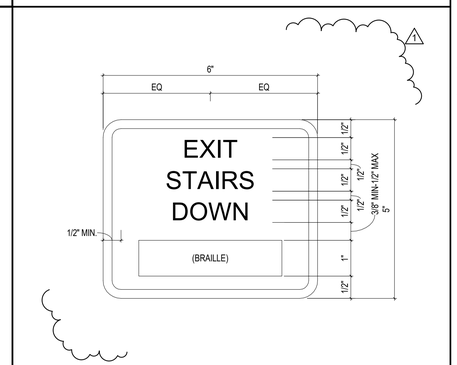
(C) PUSH SIDE
DOOR PROVIDED WITH LATCH AND CLOSER

MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES

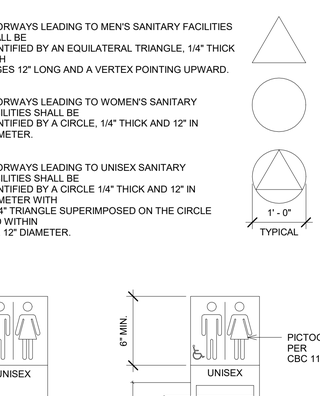
GENERAL - ACCESSIBLE DOOR APPROACH - ALCOVE | SCALE 1/4" = 1'-0" | 12

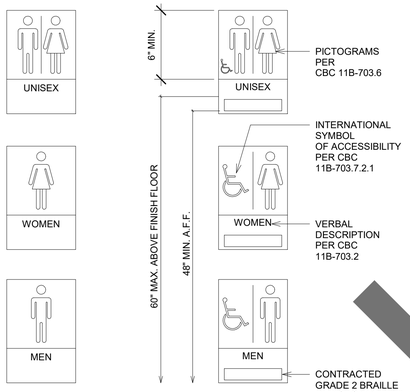


GENERAL - EXIT ROUTE SIGN | SCALE 6" = 1'-0" | 8



TACTILE EGRESS STAIRS DOWN | SCALE 6" = 1'-0" | 1



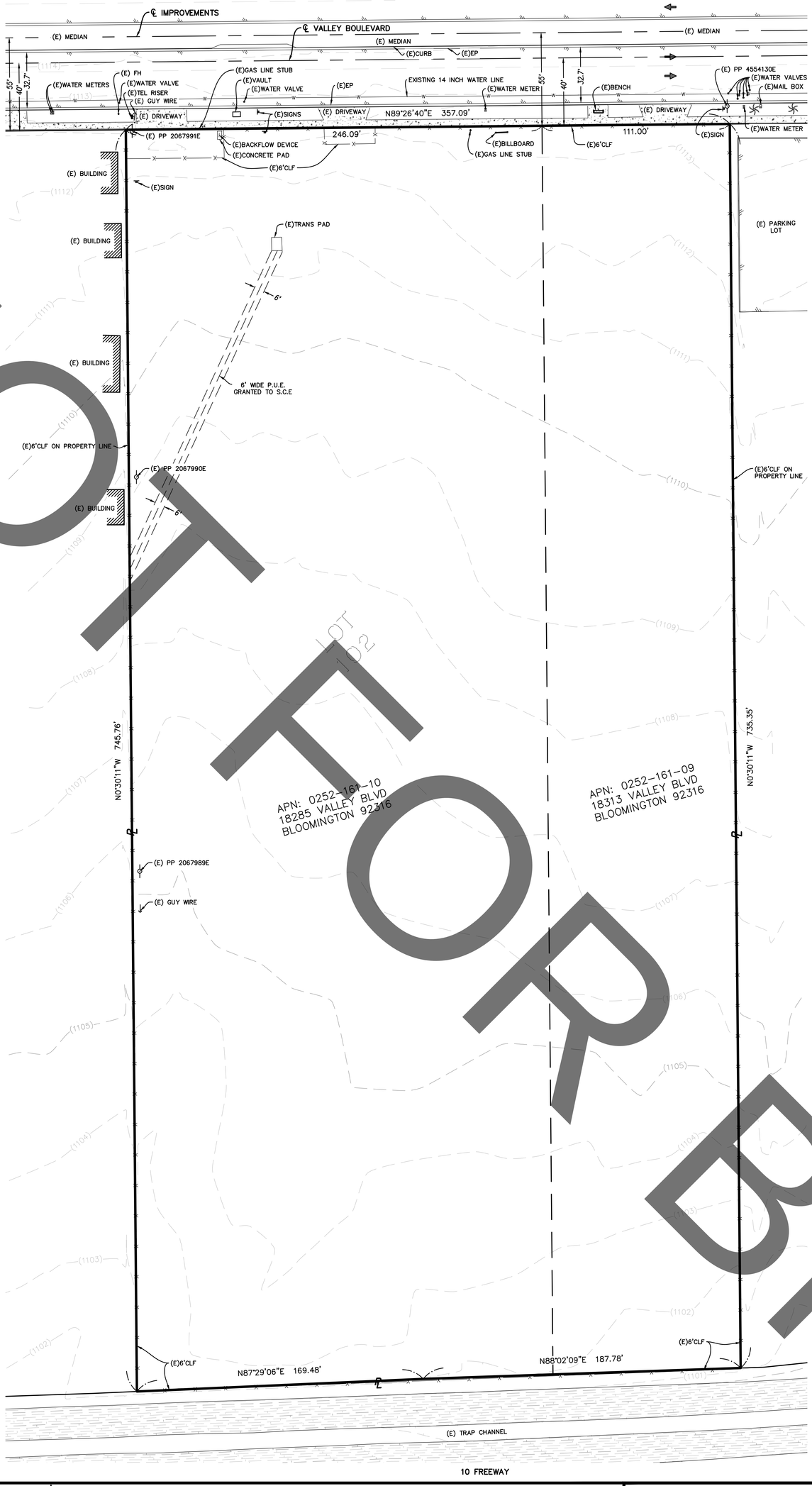


* SIGNS WITHOUT I.S.A. FOR NON-ACCESSIBLE EXISTING TOILET ROOMS

NOTES:
1. THE COLOR OF THE GEOMETRIC IDENTIFICATION SYMBOLS SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THEY ARE MOUNTED, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.
2. WHERE PERMANENT IDENTIFICATION SIGNS ARE PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR.
3. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT CLEAR FLOOR SPACE OF 18" MIN. BY 18" MIN., CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED REFER TO CBC CHAPTER 11B, DIVISION 7 FOR SPECIFIC REQUIREMENTS REGARDING PROPORTIONS FOR VISUAL AND RAISED CHARACTERS AND BRAILLE.
4. THE COLOR OF THE TRIANGLE SYMBOL SHALL CONTRACT WITH THE COLOR OF THE CIRCLE SYMBOL, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. THE COLOR OF THE CIRCLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE COMBINED CIRCLE AND TRIANGLE SYMBOL IS MOUNTED, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.
5. (THIS IS REQUIRED ONLY ON ARCHITECTURAL REMODEL PROJECTS WITH EXISTING NON-ACCESSIBLE TOILET ROOMS)

NOTE: *TOILET ROOM WALL SIGNS IDENTIFYING ACCESSIBLE SINGLE ACCOMMODATION TOILET ROOMS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. TOILET ROOM SIGNS IDENTIFYING EXISTING NON-ACCESSIBLE TOILET ROOMS, DIRECTIONAL SIGNS INDICATING THE LOCATION OF THE NEAREST ACCESSIBLE TOILET ROOM WITHIN FACILITY SHALL BE PROVIDED. SIGNS SHALL COMPLY WITH SECTION 11B-703.5 AND SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

TOILET ROOM SIGNAGE | SCALE 3/4" = 1'-0" | 16



LEGEND

ASPH	ASPHALT	PP	POWER POLE
C&G	CURB & GUTTER	TEL	TELEPHONE
EP	EDGE OF PAVEMENT	APN	ASSESSOR PARCEL NUMBER
(E)	EXISTING	CLF	CHAIN LINK FENCE
FF	FINISHED FLOOR		
FD	FOUND		

R/W	RIGHT OF WAY	EXISTING STRUCTURE	WATER VALVE	SIGNAL RISER
	PAINT LINE	EXISTING CONCRETE	IRR. VALVE	UTILITY POLE
℄	STREET CENTERLINE	MONUMENT AS FOUND	SMH	GAS VALVE
	EDGE OF PAVEMENT	FLAGPOLES	UTILITY MH	GAS METER
	WATER LINE	WATER METER	CLEAN OUT	SIGN
	FENCELINE	FIRE HYDRANT	SIGNAL POLE	ST. LIGHT
	1' INTERVAL CONTOURS	POWER POLE	PULL BOX	DECIDUOUS TREE
	5' INTERVAL CONTOURS	GUY WIRE	TEL RISER	PALM TREE

BONADIMAN
JOSEPH E. BONADIMAN & ASSOCIATES, INC.
ENGINEERS C.I.S. SURVEYING PLANNING
TEL. (909) 885-3806
234 NORTH ARROWHEAD AVE.
SAN BERNARDINO, CA 92408
FAX (909) 381-1721
www.bonadiman.com

TOPOGRAPHIC MAP

18313 VALLEY BLVD
BLOOMINGTON, CALIFORNIA
APN: 0252-161-09 & 10

VERTICAL DATUM

BENCHMARK - NGS DESIGNATION - 700 10 - PID - EV1239
ELEVATION = 1250.56' NAVD88

HORIZONTAL DATUM

BASIS OF BEARINGS - NAD83 CALIFORNIA
STATE PLANE ZONE 5 GROUND

30 0 30 60 90
SCALE: 1"=30'

PREPARED FOR:	MILLER ARCHITECTS			
DRAWN BY: MJB / JH	SCALE: 1" = 40'	SHEET: 1 OF 1		
CHECKED BY: EJB	JOB NO: 225038			
DISREGARD PRINTS BEARING EARLIER REVISION DATES →	11/21/2022			

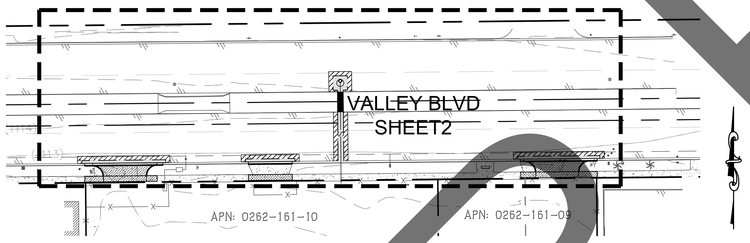
SAN BERNARDINO COUNTY
STREET IMPROVEMENT PLAN
18313 VALLEY BLVD. BLOOMINGTON,CA 92313
APN: 0252-161-09 & 10

STREET IMPROVEMENT GENERAL NOTES

1. ALL IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THIS PLAN AND COMPLY WITH THE LATEST SAN BERNARDINO COUNTY ROAD PLANNING AND DESIGN STANDARDS MANUAL AS WELL AS THE SAN BERNARDINO COUNTY STANDARDS AND SPECIFICATIONS.
2. BENCH MARK DATA: ELEVATION: 1250.56'
3. STREET MARKERS PER SAN BERNARDINO COUNTY STANDARD NO. 303, 304A AND 303B SHALL BE CONSTRUCTED AT EACH INTERSECTION.
4. STREET MARKERS SHALL BE CONSTRUCTED AT EACH INTERSECTION IN ACCORDANCE WITH APPLICABLE SAN BERNARDINO COUNTY STANDARDS. ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH COUNTY AND STATE SPECIFICATIONS.
5. A PERMIT WILL BE REQUIRED FROM SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS PRIOR TO ANY ENCROACHMENT OR CONSTRUCTION WITHIN THE COUNTY OF SAN BERNARDINO EASEMENT OR RIGHTS-OF-WAY.
6. LEAVE 8"X8" BLOCKOUTS IN SIDEWALKS FOR MAILBOXES, ETC. WHEN SIDEWALK IS PLACED ADJACENT TO CURB.
7. IF ASPHALT CONCRETE IS TO BE PLACED DIRECTLY ON SUBGRADE OF ROAD OR DRAINAGE FACILITIES, A SOIL STERILANT REGISTERED BY THE E.P.A. FOR USE UNDER A.C. AND P.C.C. SHALL BE UNIFORMLY APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE FOR THE FULL PAVEMENT WIDTH PRIOR TO PAVING.
8. THE PAVEMENT SECTION WILL BE DETERMINED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PAVEMENT ENGINEER, AND WILL BE BASED ON APPLICANT'S SUBMITTALS AS REQUIRED BY THE DPW TRANSPORTATION DIVISION'S 'GENERAL PERMIT CONDITIONS AND TRENCH SPECIFICATIONS' IN ACCORDANCE WITH YOUR TRANSPORTATION DEPARTMENT PERMIT. THIS DOCUMENT IS AVAILABLE ONLINE AT HTTP://CMS.SBCOUNTY.GOV/DPW/OPERATIONS/PERMITSOPERATIONSSUPPORTDIVISION/TRANSPORTATION.ASPX. PLEASE CONTACT YOUR TRANSPORTATION PERMIT INSPECTOR AND SUBMIT THE REQUIRED INFORMATION AS EARLY AS POSSIBLE TO AVOID CONSTRUCTION DELAYS. ALLOW UP TO 3 WEEKS FOR THE PAVEMENT SECTION DETERMINATION.
9. COMPACTION TESTS OF EMBANKMENT CONSTRUCTION, TRENCH BACKFILL, COMPACTING ORIGINAL GROUND, ALL SUBGRADES SHALL BE PERFORMED AT NO COSTS TO SAN BERNARDINO COUNTY. A WRITTEN REPORT WITH THESE COMPACTION TESTS SHALL BE SUBMITTED TO THE SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS, PERMITS/OPERATION SUPPORT DIVISION, TRANSPORTATION PERMIT SECTION FOR APPROVAL PRIOR TO PLACEMENT OF BASE MATERIALS AND/OR SURFACING.
10. AT THE COMPLETION OF PAVING, A MATERIALS REPORT SHALL BE SUBMITTED TO THE SAN BERNARDINO COUNTY PUBLIC WORKS DEPARTMENT, PERMITS/OPERATION SUPPORT DIVISION, TRANSPORTATION PERMIT SECTION, LISTING ALL TESTS OR DETERMINATIONS COMPLETED TO VERIFY:
    A. R-VALUE, SIEVE ANALYSIS AND SAND EQUIVALENT OF AGGREGATE BASES.
    B. STABILITY, OIL CONTENT AND SIEVE ANALYSIS OF ASPHALT SURFACING.
11. THE WATER MAINS AND THE GAS MAINS SHALL BE PLACED UNDERGROUND PRIOR TO PAVING CONSTRUCTION. THE SERVICE LATERALS FOR THE WATER SYSTEM SHALL BE INSTALLED AT A LATER DATE. WHERE IT IS NECESSARY TO CROSS PAVEMENT, SERVICE LATERALS SHALL BE BORED INTO PLACE.
12. FILL AND GRADE TO DRAIN ALL LOW AREAS ABUTTING TRACT ROADS TO A MINIMUM OF 1% GRADES.
13. ALL LATERAL CUTS INTO COUNTY MAINTAINED ROADWAYS SHALL BE TESTED TO VERIFY TO 90% RELATIVE COMPACTION (R.C.) AT VARYING DEPTHS TO WITHIN 0.5' OF GRADING PLANE. THE TOP 0.5' SHALL BE DENSIFIED TO 95%.
14. ALL LONGITUDINAL CUTS SHALL BE TESTED IN ACCORDANCE WITH THE SPECIFIED LIMITS AND AS OUTLINED IN SECTION 6 OF THE SAN BERNARDINO COUNTY STANDARDS AND SPECIFICATIONS.
15. IMMEDIATELY FOLLOWING REMOVAL OF EXISTING PAVEMENT OR DIKE OR CURB AND/OR GUTTER, THE CONTRACTOR SHALL DILIGENTLY PURSUE THIS PORTION OF WORK UNTIL COMPLETION.
16. DEPARTMENT OF PUBLIC WORKS APPROVAL DOES NOT INCLUDE WATER SEWER SYSTEM OR ESTIMATE OF QUANTITIES.
17. EXPANSIVE SOILS: IN EXPANSIVE SOIL AREAS, THE SUBGRADE UNDER CURBS, GUTTERS, SIDEWALK AND DRIVEWAY APPROACHES SHALL BE SCARIFIED TO THE DEPTH OF AT LEAST EIGHT (8) INCHES AND MOISTURE SHALL BE APPLIED TO MAINTAIN FREE WATER ON THE SURFACE FOR AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE AND THE SUBGRADE SHALL THEN BE PREPARED WITHOUT COMPACTION EFFORT.
18. CURB AND GUTTER, CROSS GUTTER AND SPANDRELS SHALL BE SO CONSTRUCTED THAT A MINIMUM OF PONDING OCCURS; SECTIONS HAVING GRADIENTS OF 0.5% OR FLATTER SHALL BE WATER TESTED IN THE PRESENCE OF THE INSPECTOR IMMEDIATELY PRIOR TO ACCEPTANCE. SECTIONS WHICH HAVE WATER PONDING MORE THAN 6" WIDE OR MORE THAN 4' LONG SHALL BE SAW-CUT AND REMOVED IN LENGTHS NOT LESS THAN 4' AND REPLACED TO REDUCE PONDING TO THE MAXIMUM SPECIFIED.
19. IF DURING CONSTRUCTION, GROUND WATER IS ENCOUNTERED, A SYSTEM APPROVED BY THE SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS SHALL BE INSTALLED TO DEWATER SAID AREA AT THE DIRECTION OF THE SOILS ENGINEER.
20. THIS PRIVATE ROAD SHALL NOT BE ENTERED INTO THE COUNTY MAINTAINED ROAD SYSTEM.
21. THE ENGINEER SHALL INSPECT AND CERTIFY THAT ALL PRIVATE ROAD AND DRAINAGE IMPROVEMENTS HAVE BEEN BUILT IN ACCORDANCE WITH THE APPROVED PLANS.
22. ALL 0.40% OR LESS CURB GRADE LINES SHALL BE STAKED AT 25' INTERVALS AND FORMS CERTIFIED BY THE ENGINEER BEFORE POURING CONCRETE.
23. EXISTING COUNTY ROADS THAT WILL REQUIRE RECONSTRUCTION SHALL REMAIN OPEN FOR TRAFFIC AT ALL TIMES WITH ADEQUATE DETOURS DURING ACTUAL CONSTRUCTION.
24. THE PRIVATE ENGINEER IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISE THE PLAN FOR APPROVAL BY SAN BERNARDINO COUNTY.
25. SHOULD ANY EXISTING STOP SIGN BE LOCATED ON A DEVELOPED CORNER OF AN INTERSECTION, IT MUST BE MAINTAINED IN PLACE NEXT TO THE EXISTING PAVEMENT UNTIL SUCH TIME AS THE WIDENED ROADWAY IS OPEN FOR TRAFFIC. AT THAT TIME, IT WILL BE RELOCATED THREE (3) FEET BEHIND THE NEW CURB IN THE VICINITY OF THE BEGINNING OF THE CURB RETURN OR AS OTHERWISE DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL - GENERAL NOTES

1. ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE CALIFORNIA MUTCD LATEST EDITION.
2. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE PAINTED IN CONFORMANCE WITH THE CALTRANS STANDARD PLANS LATEST 2015 EDITION.
3. ALL STRIPING (LONG LINE) AND PAVEMENT MARKINGS SHALL BE RETROREFLECTIVE PAINT.
4. ALL SIGNS SHALL BE OF HIGH INTENSITY (FHWA TYPE III/IV) RETROREFLECTIVE SHEETING EXCEPT:
    A. STOP SIGNS SHALL BE DIAMOND GRADE (FHWA TYPE VII IN RURAL SETTINGS AND TYPE IX IN URBAN SETTINGS) RETROREFLECTIVE SHEETING.
    B. "NO PARKING" SIGNS SHALL BE OF SUPER ENGINEERING GRADE (FHWA TYPE II) RETROREFLECTIVE SHEETING.
    C. SCHOOL SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT YELLOW-GREEN (FYG) RETROREFLECTIVE SHEETING.
    D. STREET NAME MARKERS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) RETROREFLECTIVE SHEETING AND CONFORM TO COUNTY STANDARD 303.
    E. CONSTRUCTION SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT ORANGE RETROREFLECTIVE SHEETING.
5. ALL DELINEATORS, CHANNELIZERS, AND OBJECT MARKERS SHALL BE OF FHWA TYPE VII RETROREFLECTIVE SHEETING.
6. SIGNS SHALL BE MOUNTED ON METAL POSTS SIMILAR TO COUNTY STANDARDS 303(A) AND 303(B).
7. ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON PLANS SHALL BE REMOVED BY THE CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING, GRINDING, OR AS DIRECTED BY COUNTY REPRESENTATIVE.
8. ALL CONFLICTING SIGNS SHALL BE REMOVED, RELOCATED, OR COVERED BY THE CONTRACTOR. RELOCATABLE SIGNS SHALL BE INSTALLED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY COUNTY REPRESENTATIVE.
9. ALL UNPROTECTED LOCATIONS RESULTING IN ISOLATED ABRUPT DEPRESSIONS OR ELEVATED OBJECTS (I.E. CATCH BASINS, HEADWALLS, POWER POLES, END TREATMENT OF ASPHALT DIKES AND CONCRETE CURBS) SHALL BE PROTECTED BY DELINEATORS OR BARRIERS PER THE CALIFORNIA MUTCD LATEST EDITION.
10. ALL EXISTING SIGNING, STRIPING AND PAVEMENT MARKINGS (I.E. CROSS STREET STOP, STOP LIMIT LINE, AND CROSSWALK PAVEMENT MARKINGS) NOT SHOWN ON PLANS, IF REMOVED/OBLITERATED, SHALL BE REPLACED/RESTORED OF SAME KIND, AND IN CONFORMANCE WITH THE CALIFORNIA MUTCD LATEST EDITION.
11. THE CONTRACTOR SHALL NOTIFY COUNTY REPRESENTATIVE TO SCHEDULE A FINAL REVIEW (WALK THROUGH) WITH TRAFFIC DIVISION PERSONNEL FOR APPROVAL OF TRAFFIC CONTROL DEVICES PRIOR TO PROJECT ACCEPTANCE.



MAP INDEX
1" = 50'

SHEET INDEX:

BASIS OF BEARINGS

NAD83 CALIFORNIA STATE PLANE ZONE 5 GROUND
THE CENTERLINE OF VALLEY BLVD BEGIN N89°26'46"E

BENCHMARK

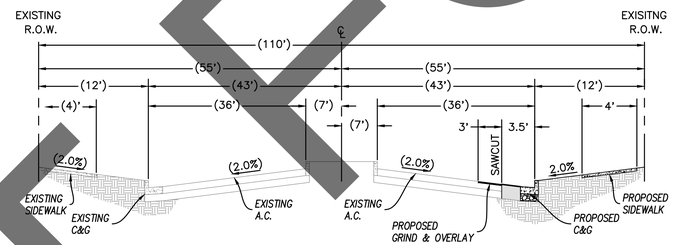
NATIONAL GEODETIC SURVEY DATA SHEET

DESIGNATION: 700 10
PID: EV1239
ELEVATION: 1250.56' NAVD88

CONSTRUCTION NOTES:

		QTY:
1	GRIND & OVERLAY, 0.17' MIN. THICKNESS AND 2' MIN. WIDTH.	510 SF.
2	CONSTRUCT ___ A.C. OVER ___ C.A.B. (CLASS II) PER GENERAL NOTE #8.	280 SF.
3	CONSTRUCT 8" CURB & GUTTER PER COUNTY STD. 115.	1,29 LF.
4	CONSTRUCT 4" THICK CONCRETE SIDEWALK PER COUNTY STD. 109, TYPE C.	294 SF.
5	CONSTRUCT COMMERCIAL DRIVEWAY APPROACH PER COUNTY STD. 129B, WIDTH AS NOTED.	840 SF.
6	REMOVE AND REPLACE EXISTING GROUTED LANDSCAPE ROCK.	56 SF.
7	REMOVE AND REPLACE EXISTING CURB ONLY, MATCH EXISTING.	12 SF.

QUANTITIES LISTED HEREON REFLECT THE ENGINEER'S ESTIMATE OF MATERIALS THESE QUANTITIES ARE FOR ESTIMATING AND BONDING PURPOSE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR COMPUTING HIS OWN QUANTITIES FOR CONTRACT PURPOSES.

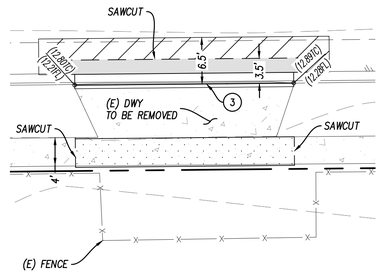


TYPICAL SECTION, "VALLEY BLVD."

NOT TO SCALE

STA: 20+73.52 TO STA: 21+17.51
STA: 21+87.85 TO STA: 22+18.45
STA: 23+78.05 TO STA: 24+31.55

Curve Table				
CURVE #	LENGTH	RADIUS	DELTA	CHORD LENGTH
C2	78.87'	50.00'	90°22'56"	70.95'



DETAIL 3

DECLARATION OF ENGINEER OF RECORD:

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS SHOWN ON THESE PLANS COMPLIES WITH ALL PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER OF RECORD FOR THE PLANS, I ASSUME FULL RESPONSIBILITY FOR THE DESIGN OF THE IMPROVEMENTS. WITH RESPECTS TO THE PLAN CHECK PERFORMED BY THE COUNTY OF SAN BERNARDINO, I UNDERSTAND AND ACKNOWLEDGE THE FOLLOWING: (1) THE PLAN CHECK IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THE PLANS COMPLY WITH THE COUNTY'S STANDARDS, PROCEDURES, POLICIES, AND ORDINANCES, (2) THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS, AND (3) THE PLAN CHECK DOES NOT RELIEVE ME OF MY LEGAL AND PROFESSIONAL RESPONSIBILITY FOR THE DESIGN OF THE IMPROVEMENTS. AS THE ENGINEER OF RECORD, I AGREE TO DEFEND, INDEMNIFY, AND HOLD HARMLESS THE COUNTY, ITS ELECTED OFFICIALS, EMPLOYEES, AND AGENTS FROM ANY AND ALL ACTUAL OR ALLEGED CLAIMS, DEMANDS, CAUSES OF ACTION, LIABILITY, LOSS, DAMAGE, OR INJURY TO PROPERTY OR PERSON, INCLUDING WRONGFUL DEATH, WHETHER IMPOSED BY A COURT OF LAW OR BY ADMINISTRATIVE ACTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENTAL AGENCY, ARISING OUT OF OR INCIDENT TO ANY NEGLIGENT ACTS, OMISSIONS, OR ERRORS BY THE ENGINEER OF RECORD, ITS EMPLOYEES, CONSULTANTS, OR AGENTS.

JAMES T. STANTON — 70944 R.C.E. — 03-18-24 DATE

UNAUTHORIZED CHANGES & USES

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

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENTS CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PREVENT DAMAGE TO ANY UTILITY LINES SHOWN, AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

CONSTRUCTION CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION CONTRACTOR FURTHER AGGRESS TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

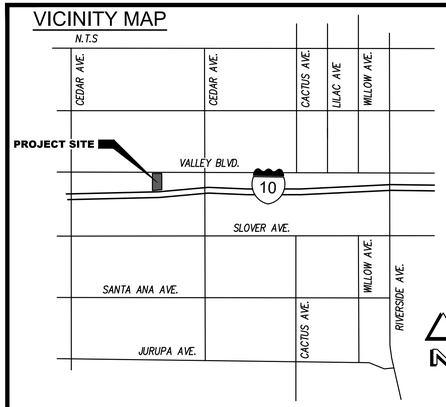
LEGEND

(E)	EXISTING
AC	ASPHALTIC CONCRETE SURFACE
C&G	CURB AND GUTTER
CL	CENTER LINE
DWY	DRIVEWAY
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOWLINE
FS	FINISHED SURFACE
GW	GUY WIRE
INV	INVERT OF PIPE
IRR	IRRIGATION
MH	MANHOLE
PP	POWER POLE
R/W	RIGHT OF WAY
R&R	REMOVE & REPLACE
TC	TOP OF CURB
WM	WATER METER
WV	WATER VALVE

EXISTING CONCRETE SURFACE
PROPOSED CONCRETE SURFACE
PROPOSED GRIND & OVERLAY
PROPOSED AC PAVING
RIGHT OF WAY
PROPERTY LINE
CENTERLINE
EXISTING WATER
EXISTING SEWER
EXISTING GAS
EXISTING BLOCK OR STONE WALL
(1500) CONTOUR ELEVATION (FEET)

VICINITY MAP

N.T.S



BLOOMINGTON

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NATIONAL GEODETIC SURVEY DATA SHEET
DESIGNATION: 700 10
PID: EV1239
ELEVATION: 1250.56' NAVD88

PREPARED BY:
BONADIMAN
JOSEPH E. BONADIMAN & ASSOCIATES, INC.
ENGINEERS - M.I.S. - SURVEYING - PLANNING
TEL. (909) 885-3806
201 NORTH ARROWHEAD AVE.
SAN BERNARDINO, CA 92408
FAX (909) 381-1724
WWW.JEBONADIMAN.COM

SCALE: N/A
DATE: 03-18-24

SEAL
REGISTERED PROFESSIONAL ENGINEER
JAMES T. STANTON
No. C-70944
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA
03-18-24

DATE	BY	MARK	REVISIONS	APPR.	DATE
			ENGINEER		

DESIGNED BY: JTS DRAWN BY: JTS CHECKED BY: JTS

SAN BERNARDINO COUNTY
DPW

OSVALDO ROQUE DATE
SUPERVISING ENGINEER, TRAFFIC DIVISION

JEREMY JOHNSON DATE
ENGINEERING MANAGER, TRAFFIC DIVISION

RECOMMENDED BY:

APPROVED BY:

MICHAEL FAM DATE
ENGINEERING MANAGER, LAND DEVELOPMENT DIVISION

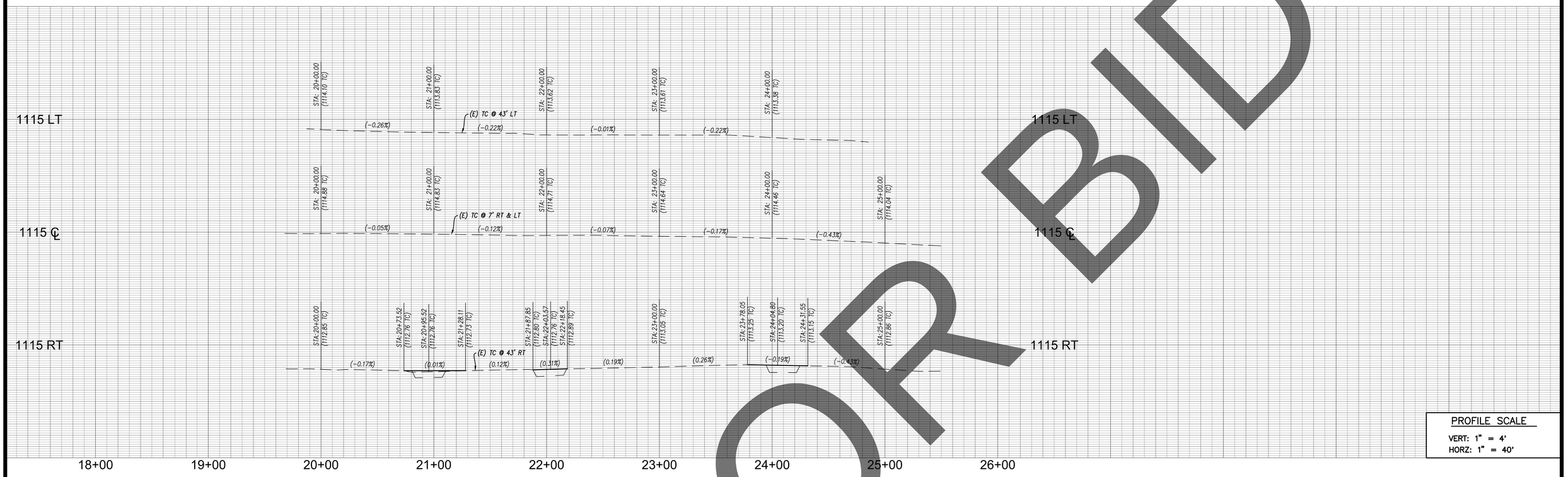
STREET IMPROVEMENT PLAN
SIP: 2024-00003

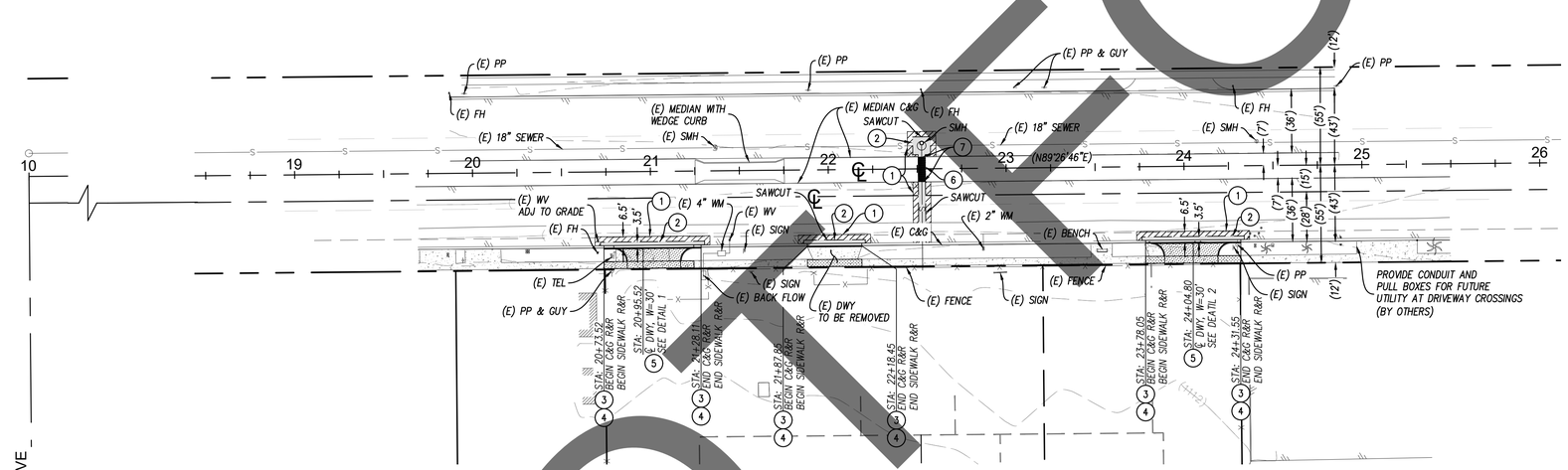
18313 VALLEY BLVD.
BLOOMINGTON,CA 92313
TITLE SHEET

ROAD NO.

FILE NO.

SHEET 1 OF 2

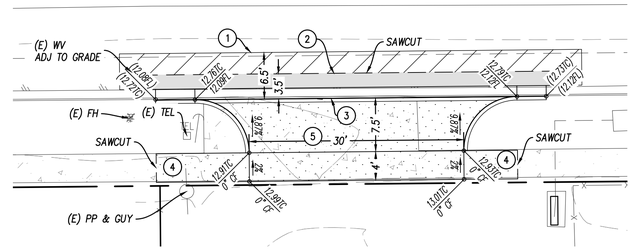




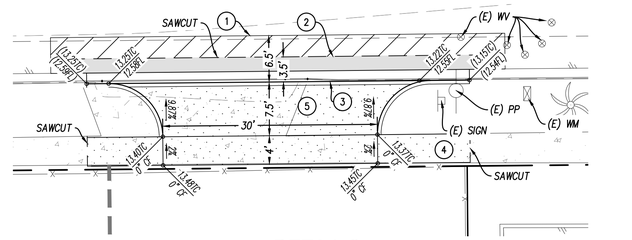
Curve Table				
CURVE #	LENGTH	RADIUS	DELTA	CHORD LENGTH
C2	78.87'	50.00'	90°22'56"	70.95'

CONSTRUCTION NOTES:

1. GRIND & OVERLAY, 0.17' MIN THICKNESS AND 2' MIN. WIDTH.
2. CONSTRUCT ___ A.C. OVER ___ C.A.B. (CLASS II) PER GENERAL NOTE #8.
3. CONSTRUCT 8" CURB & GUTTER PER COUNTY STD. 115.
4. CONSTRUCT 4" THICK CONCRETE SIDEWALK PER COUNTY STD. 109, TYPE C.
5. CONSTRUCT COMMERCIAL DRIVEWAY APPROACH PER COUNTY STD. 129B, WIDTH AS NOTED.
6. REMOVE AND REPLACE EXISTING GROUTED LANDSCAPE ROCK.
7. REMOVE AND REPLACE EXISTING CURB ONLY, MATCH EXISTING.



DETAIL 1



DETAIL 2

40 0 40 80 120
SCALE: 1"=40'

PROFILE SCALE
VERT: 1" = 4'
HORZ: 1" = 40'

NOT FOR BID

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
SEE SHEET 1.

PREPARED BY:
BONADIMAN
JOSEPH E. BONADIMAN & ASSOCIATES, INC.
ENGINEERING - M.E.P. - SURVEYING - PLANNING
TEL. (909) 885-3806
294 NORTH ARROWHEAD AVE.
SAN BERNARDINO, CA 92408
FAX (909) 381-1721
www.bonadiman.com
SCALE: N/A
DATE: 03-18-24

SEAL
REGISTERED PROFESSIONAL ENGINEER
JAMES T. STANTON
No. C-70944
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA
03-18-24

DATE	BY	MARK	APPR. DATE
ENGINEER		REVISIONS	

DESIGNED BY: JTS DRAWN BY: JTS CHECKED BY: JTS

SAN BERNARDINO COUNTY
DPW

OSVALDO ROQUE DATE
SUPERVISING ENGINEER, TRAFFIC DIVISION

RECOMMENDED BY:

APPROVED BY:

JEREMY JOHNSON DATE
ENGINEERING MANAGER, TRAFFIC DIVISION

MICHAEL FAM DATE
ENGINEERING MANAGER, LAND DEVELOPMENT DIVISION

STREET IMPROVEMENT PLAN
SIP: 2024-00003

18313 VALLEY BLVD.
BLOOMINGTON,CA 92313
PLAN & PROFILE

ROAD NO.

FILE NO.

SHEET 2 OF 2

JOB #: 184546 DRAWING NAME: 225038 ST.dwg PLOT DATE: 03/18/2024 - 11:43AM

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS
SPECIAL DISTRICTS
CSA 70 BL (BLOOMINGTON)
ANIMAL CARE CENTER
APN: 0252-161-09 & 10

SAN BERNARDINO COUNTY
PUBLIC WORKS

GENERAL SEWER NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE SBMWD SPECIFICATIONS, DESIGN STANDARDS AND STANDARD DRAWINGS.
2. APPROVAL OF THIS PLAN BY THE SBMWD DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OR OF THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE PROTECTION OF ALL UTILITIES WITHIN THE LIMITS OF THE PROJECT.
3. INSPECTION SHALL BE BY THE SBMWD OR ITS DESIGNATED INSPECTOR. ALL REQUESTS FOR INSPECTION SHALL BE MADE AT LEAST 48 HOURS IN ADVANCE OF THE PROPOSED CONSTRUCTION.
4. DURING THE PERIOD OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN SUCH WARNINGS, SIGNS, STOP SIGNS, BARRICADES AND OTHER SAFETY MEASURES AS DIRECTED BY THE TRAFFIC PLAN SUBMITTED AND APPROVED THROUGH THE COUNTY OF SAN BERNARDINO PERMIT.
5. SEWER PIPE SHALL COMPLY WITH THE FOLLOWING SECTIONS:
   A) SECTION 207-8, "VITRIFIED CLAY PIPE"
   B) SECTION 207-15, "ABS SOLID WALL PIPE"
   C) SECTION 207-16, "ABS COMPOSITE PIPE", AND
   D) SECTION 207-17, "POLYVINYL CHLORIDE PLASTIC PIPE"
6. ALL PVC AND ABS SOLID WALL PIPE SHALL HAVE STANDARD DIAMETER RATIO (S.D.R.) OF 26 OR LESS.
7. USE OF A PIPE DEFLECTOR OR RE-ROUNDER SHALL NOT BE PERMITTED ON OVER-DEFLECTED PIPE.
8. AFTER BACKFILLING AND COMPACTION OF ABS OR PVC TIE, THE SEWER SHALL BE CLEANED AND MANDRELLED. MANDRELL SHALL BE RIGID TYPE WITH 9 RUNNERS, MINIMUM DIAMETER OF 96% OF INSIDE PIPE DIAMETER AND A LENGTH EQUAL TO OR GREATER THAN THE PIPE DIAMETER.
9. CONTRACTOR SHALL NOT OPEN MORE TRENCH THAN CAN BE PROPERLY CONSTRUCTED AND FILLED IN A DAYS OPERATION. ANY TRENCH UNAVOIDABLY LEFT OPEN DURING THE HOURS OF DARKNESS OR OVER A WEEKEND SHALL BE FENCED WITH 6 FOOT CHAIN LINK FENCING AND PROPERLY LIGHTED.
10. CONTRACTOR SHALL REINSTALL PAVEMENT MARKINGS AND STRIPING THAT HAS BEEN DISTURBED BY HIS OPERATIONS.
11. OSHA PERMIT REQUIRED FOR TRENCHES OVER 5 FEET IN DEPTH PRIOR TO START OF TRENCH EXCAVATION.
12. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT PRIOR TO BEGINNING WORK.
13. THE CONTRACTOR SHALL PROVIDE SAFE AND CONTINUOUS PASSAGES FOR LOCAL PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES.
14. TRAFFIC SIGNAL FUNCTIONS SHALL BE THE RESPONSIBILITY OF THE CITY. HOWEVER, THE CONTRACTOR IS REQUIRED TO GIVE 48 HOUR NOTICE PRIOR TO CONSTRUCTION THAT WILL DAMAGE OR AFFECT ANY BURIED TRAFFIC DETECTORS.
15. SHOULD ANY OF THE EXISTING UTILITIES OF ANY OTHER FACILITIES CONFLICT WITH THE PROPOSED SEWER LINE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND AWAIT THE RELOCATION AND/OR ALTERNATE DESIGN.
16. THE CONTRACTOR SHALL ALSO CONDUCT HIS OPERATIONS AS TO OFFER THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC, AND SHALL HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAN HE CAN PROSECUTE PROPERLY IN ONE DAY (8:00 A.M. TO 5:00 P.M.).

    CONVENIENT ACCESS TO DRIVEWAYS, HOUSES, AND BUILDINGS ALONG THE LINE OF WORK SHALL BE MAINTAINED, AND TEMPORARY CROSSINGS SHALL BE PROVIDED AND MAINTAINED IN GOOD CONDITION. NOT MORE THAN ONE CROSSING OR INTERSECTING STREET OR ROAD SHALL BE CLOSED AT ANY ONE TIME WITHOUT THE APPROVAL OF THE ENGINEER.

    THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUCH FENCES, BARRIERS, DIRECTIONAL SIGNS, LIGHTS, AND FLAG MEN AS ARE NECESSARY TO GIVE ADEQUATE WARNING TO THE PUBLIC AT ALL TIMES OF ANY DANGEROUS CONDITIONS TO BE ENCOUNTERED AS A RESULT OF THE CONSTRUCTION WORK AND TO GIVE DIRECTIONS TO THE PUBLIC.
17. THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID INJURY TO EXISTING IMPROVEMENTS OR FACILITIES, UTILITY FACILITIES, ADJACENT PROPERTY, AND TREES AND SHRUBBERY THAT ARE NOT TO BE REMOVED. CONTRACTOR SHALL NOTIFY USA PRIOR TO ENTERING PROJECT SITE.
18. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF WORK, AND THE CONTRACTOR SHALL FULLY COMPLY WITH ALL STATE AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDERS RELATING TO SAFETY TO THE PUBLIC AND WORKMEN.
19. STREET CUT PERMITS MUST BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS/CITY ENGINEER.
20. ALL REMOVALS IN PAVED AREAS SHALL BE SAW CUT ON A NEAT, STRAIGHT LINE PARALLEL TO THE PIPE LINE. THE CUT EDGE SHALL BE PROTECTED FROM CRUSHING AND ALL BROKEN EDGES SHALL BE RE-CUT TO PAVING OPERATIONS.

OWNER/APPLICANT:

SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVE., 3rd FLOOR
SAN BERNARDINO, CA 92415

ATTN: KENNETH HYLIN, SR. PROJECT MANAGER
PHONE: (909) 387-5000
EMAIL: KENNETH.HYLIN@PFM.SBCOUNTY.GOV

BASIS OF BEARINGS

NAD83 CALIFORNIA STATE PLANE ZONE 5 GROUND
THE CENTERLINE OF VALLEY BLVD BEGIN N89°26'46"E

BENCHMARK

NATIONAL GEODETIC SURVEY DATA SHEET

DESIGNATION: 700 10
PID: EV1239
ELEVATION: 1250.56' NAVD88

SHEET INDEX:

CONSTRUCTION NOTES:

	CONSTRUCTION NOTES	QTY
1	INSTALL ARMOROCK 60" DIA PRECAST POLYMER MANHOLE PER SAN BERNARDINO COUNTY STD. E-2, E-3A AND ARMOROCK DETAIL, SHEET 3.	1 EA.
2	INSTALL ARMOROCK 48" DIA PRECAST POLYMER MANHOLE PER SAN BERNARDINO COUNTY STD. E-2, E-3A AND ARMOROCK DETAILS, SHEET 3.	1 EA.
3	INSTALL 8" SDR 26 PVC SEWER LINE PER PLAN, 0.33% MIN SLOPE, PER DRAWING E-18 (NORMAL BEDDING).	8 LF.
4	CONSTRUCT TRENCH REPAIR PER SAN BERNARDINO COUNTY STD. SC-231.	562 SF.
5	SEE DETAIL W 6.24, SHEET 3 FOR CONNECTION TO SEWER MAIN.	
6	INSTALL 6" CLEANOUT.	1 EA.
7	INSTALL 8" BACKWATER VALVE, MIFAB BV1008 OR EQUAL.	1 EA.
8	REMOVE AND REPLACE EXISTING GROUTED LANDSCAPE ROCK, (SEE STREET IMPROVEMENT PLAN).	56 SF.
9	REMOVE AND REPLACE EXISTING CURB ONLY, MATCH EXISTING, (SEE STREET IMPROVEMENT PLAN).	12 LF.

UNAUTHORIZED CHANGES & USES:

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

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENTS CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PREVENT DAMAGE TO ANY UTILITY LINES SHOWN, AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

CONSTRUCTION CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION CONTRACTOR FURTHER AGGRESS TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

LEGEND

ASPH	ASPHALTIC CONCRETE SURFACE
BT	BOTTOM OF TRENCH
CB	CATCH BASIN
C&G	CURB AND GUTTER
CL	CENTER LINE
DDC	DOUBLE DETECTOR CHECK
DWY	DRIVEWAY
(E)	EXISTING
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOWLINE
FS	FINISHED SURFACE
GB	GRADE BREAK
GW	GUY WIRE
INV	INVERT OF PIPE
MH	MANHOLE
N.T.S.	NOT TO SCALE
PP	POWER POLE
ST	STREET
TC	TOP OF CURB
TF	TOP OF FOOTING
TW	TOP OF WALL
TYP	TYPICAL
WI	WROUGHT IRON
WM	WATER METER

EXISTING CONCRETE SURFACE
PROPOSED PULVERIZED ASPHALT
PROPOSED CRACK SEAL & SLURRY
PROPOSED ASPHALT
RIGHT OF WAY
PROPERTY LINE
CENTERLINE
EXISTING BLOCK OR STONE WALL
FLOWLINE
GB GRADE BREAK
FILL SLOPE
INDICATES DIRECTION OF FLOW
(1500) CONTOUR ELEVATION (FEET)
ADA PATH OF TRAVEL

DECLARATION OF ENGINEER OF RECORD

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS – SPECIAL DISTRICTS (SD) IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THAT THE PLANS COMPLY WITH SD PROCEDURES, APPLICABLE POLICES AND ORDINANCES. THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS. AS ENGINEER OF RECORD, I AGREE TO INDEMNIFY AND HOLD SD, IT'S OFFICERS, AGENTS, AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITY, CLAIMS, DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY WHICH MIGHT ARISE FROM THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF RECORD. I HAVE READ AND INFORMED THE PROJECT APPLICANT/DEVELOPER THAT APPROVAL OF THESE PLANS DO NOT RELIEVE THEM FROM THE REQUIREMENTS OF THE DESIGN CONDITIONS.

BY: [signature] C-70944 3-18-24
NAME RCE NO. DATE

NOTIFICATIONS

AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL NOTIFY: ____________

1. SPECIAL DISTRICTS – WATER AND SANITATION DIVISION: DEVELOPMENT SERVICES – (760) 955-9885
2. PERMIT AGENCY: SAN BERNARDINO COUNTY – (760) 955-9885
3. UNDERGROUND SERVICE ALERT (USA): 811
4. ALL OTHER AFFECTED AGENCIES THAT ARE NOT MEMBERS OF USA ALERT

TIME LIMITATIONS

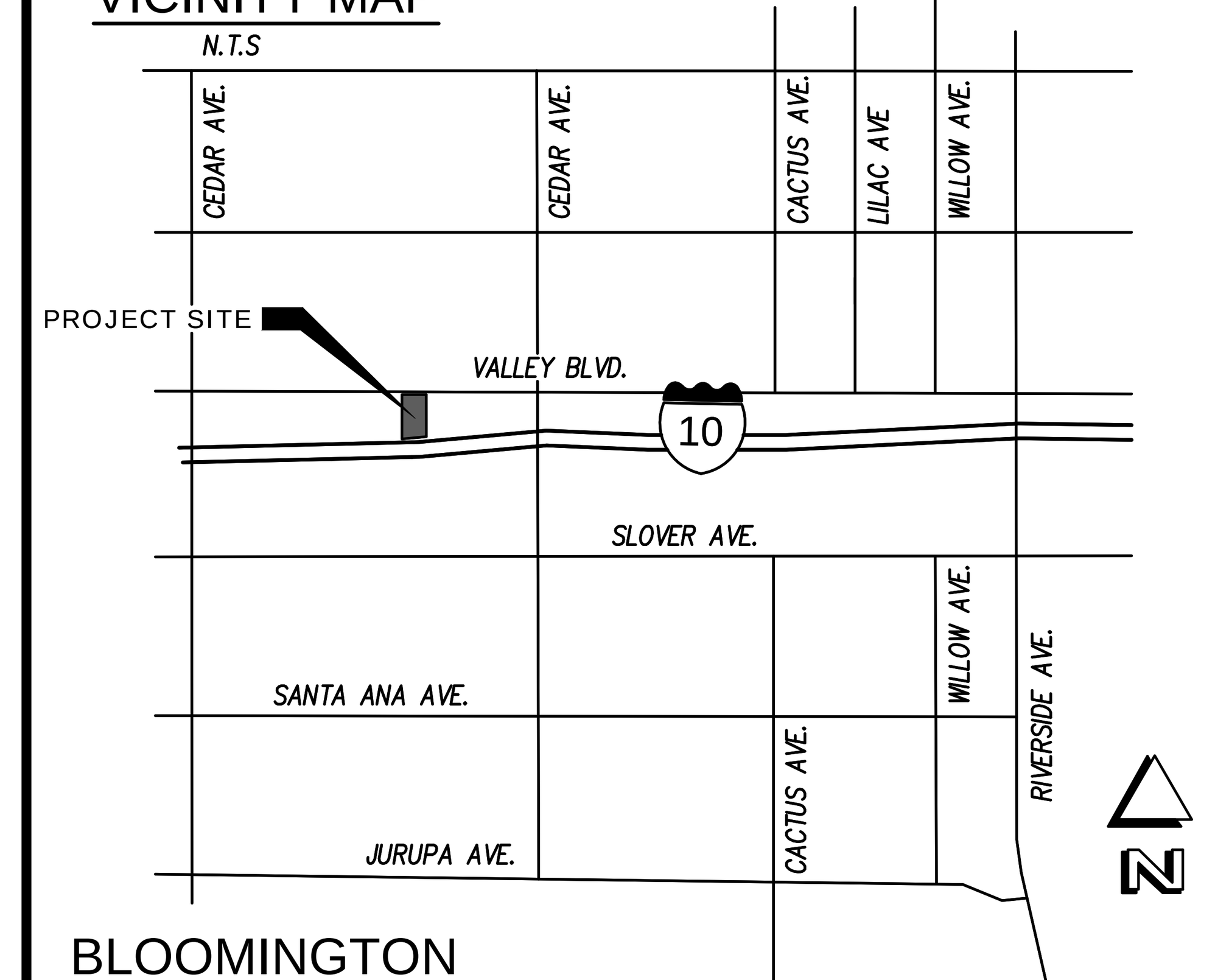
THE TIME LIMIT ON DRAWING(S) APPROVAL SHALL BE TWELVE (12) MONTHS FROM THE DATE ON THE APPROVAL. IF CONSTRUCTION HAS NOT COMMENCED WITHIN STATED TIME, SD REQUIRES DRAWING(S) TO BE REVIEWED BY THE DEVELOPER/DESIGN ENGINEER AND RESUBMITTED TO SD FOR POSSIBLE CHANGES IN SPECIFICATIONS AND STANDARDS.

TESTING AND INSPECTION NOTES:

TESTING AND INSPECTION SHALL BE PER COUNTY SPECIAL DISTRICTS SPECIFICATIONS. REQUIREMENTS FOR SEPARATION AND LOCATION OF CROSSINGS OF WATER SUPPLY LINES SHALL BE PER THE STANDARDS OF THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES DIVISION OF DRINKING WATER.

1. ALL TRENCH BACKFILLS SHALL BE TESTED AND CERTIFIED BY A SOILS ENGINEER PRIOR TO ACCEPTANCE.
2. TWENTY-FOUR HOURS ADVANCE NOTICE IS REQUIRED FOR INSPECTION. ARRANGEMENTS FOR INSPECTION CAN BE MADE BY CALLING (760) 955-9885, BETWEEN THE HOURS OF 8:00 A.M. AND 4;00 P.M., MONDAY THROUGH FRIDAY.
3. NORMAL INSPECTION HOURS ARE 8:00 A.M. TO 4:00 P.M., MONDAY THROUGH FRIDAY. REQUESTS FOR INSPECTION AT OTHER TIMES OR ON OTHER DAYS MUST BE SUBMITTED TO COUNTY SPECIAL DISTRICTS A MINIMUM OF 48 HOURS BEFORE THE INSPECTION IS REQUIRED. THE CONTRACTOR MUST BEAR THE COST OF SUCH OVERTIME INSPECTIONS AND WILL BE BILLED ACCORDINGLY, BASED ON STAFF AVAILABILITY.
4. CLEANING AND TESTING SHALL COMPLY WITH THE SAN BERNARDINO COUNTY SPECIAL DISTRICTS DEPARTMENT STANDARDS FOR SANITARY SEWER TECHNICAL SPECIFICATIONS, SECTION 6.
6. PERMITS ARE REQUIRED FOR ALL SEWER CONNECTIONS.

VICINITY MAP



UNDERGROUND SERVICE ALERT
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
OR
811
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NATIONAL GEODETIC SURVEY DATA SHEET
DESIGNATION: 700 10
PID: EV1239
ELEVATION: 1250.56' NAVD88

BASIS OF BEARINGS:
NAD83 CALIFORNIA STATE PLANE ZONE 5 GROUND
THE CENTERLINE OF VALLEY BLVD BEGIN N89°26'46"E

REGISTERED PROFESSIONAL ENGINEER
JAMES T. STANTON
No. C-70944
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

PREPARED BY:
BONADIMAN
JOSEPH E. BONADIMAN & ASSOCIATES, INC.
ENGINEERS • G.I.S. • SURVEYING • PLANNING
TEL. (909) 885-3806
234 NORTH ARROWHEAD AVE.
SAN BERNARDINO, CA 92408
FAX (909) 381-1721
www.bonadiman.com

SCALE: NONE
DATE: 03-12-24

REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

SEWER PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS

ASSISTANT DIRECTOR DATE

APPROVALS		INITIAL	DATE
	REVIEWER		
	WAS, DIVISION MANAGER		
	PM, DIVISION MANAGER		

SEWER IMPROVEMENT PLANS

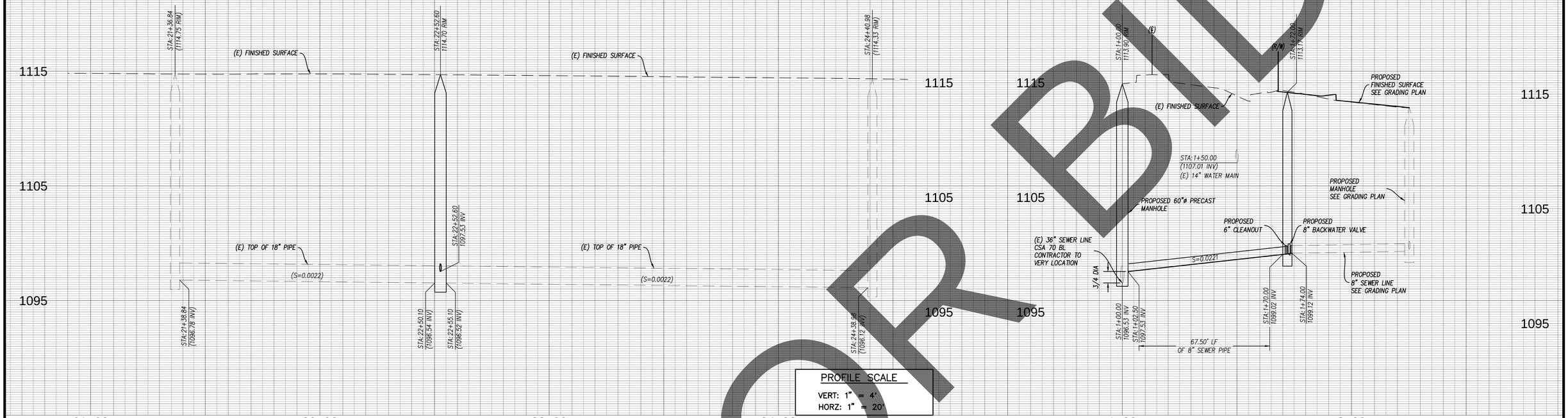
APN: 0252-161-09 & 10
ANIMAL CARE CENTER
18313 VALLEY BLVD
BLOOMINGTON, CA 92313

TITLE SHEET

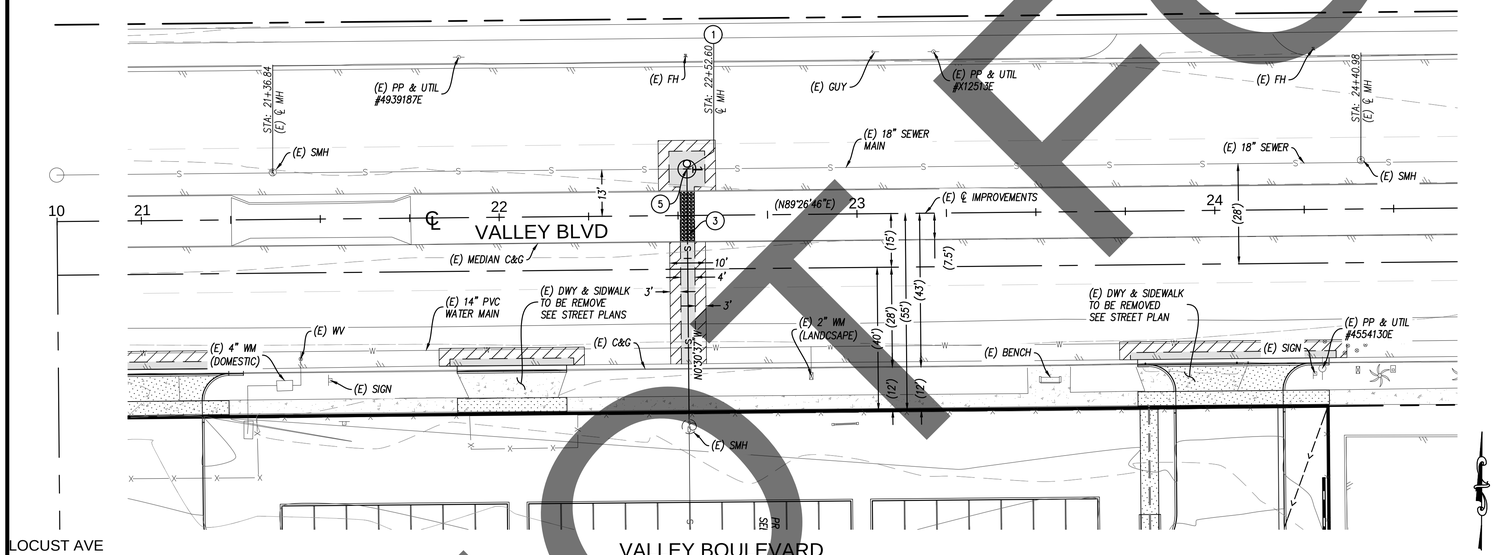
DWG NO.

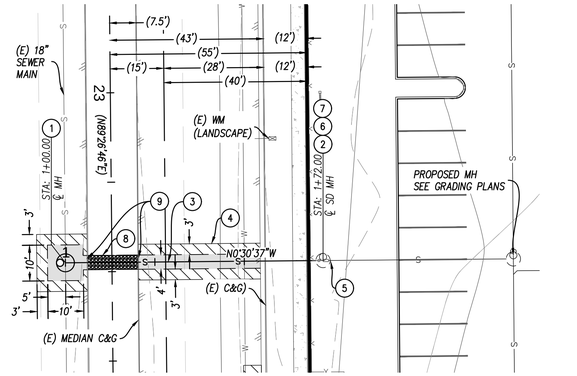
FILE NO.

SHEET 1 OF 3



PROFILE SCALE
VERT: 1" = 4'
HORZ: 1" = 20'





SEWER LATERAL

CONSTRUCTION NOTES:

1. INSTALL ARMOROCK 60" DIA PRECAST POLYMER MANHOLE PER SAN BERNARDINO COUNTY STD. E-2, E-3A AND ARMOROCK DETAIL, SHEET 3.
2. INSTALL ARMOROCK 48" DIA PRECAST POLYMER MANHOLE PER SAN BERNARDINO COUNTY STD. E-2, E-3A AND ARMOROCK DETAILS, SHEET 3.
3. INSTALL 8" SDR 26 PVC SEWER LINE PER PLAN, 0.33% MIN SLOPE, PER DRAWING E-18 (NORMAL BEDDING).
4. CONSTRUCT TRENCH REPAIR PER SAN BERNARDINO COUNTY STD. SC-231.
5. SEE DETAIL W 6.24, SHEET 3 FOR CONNECTION TO SEWER MAIN.
6. INSTALL 6" CLEANOUT.
7. INSTALL 8" BACKWATER VALVE, MIFAB BV1008 OR EQUAL.
8. REMOVE AND REPLACE EXISTING GROUTED LANDSCAPE ROCK, (SEE STREET IMPROVEMENT PLAN).
9. REMOVE AND REPLACE EXISTING CURB ONLY, MATCH EXISTING, (SEE STREET IMPROVEMENT PLAN).

20 0 20 40 60
SCALE: 1"=20'

UNDERGROUND SERVICE ALERT
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
OR
811
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NATIONAL GEODETIC SURVEY DATA SHEET
DESIGNATION: 700 10
PID: EV1239
ELEVATION: 1250.56' NAVD88

BASIS OF BEARINGS:
NAD83 CALIFORNIA STATE PLANE ZONE 5 GROUND
THE CENTERLINE OF VALLEY BLVD BEGIN N89°26'46"E

REGISTERED PROFESSIONAL ENGINEER
JAMES T. STANTON
No. C-70944
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

PREPARED BY:
BONADIMAN
JOSEPH E. BONADIMAN & ASSOCIATES, INC.
ENGINEERING • M.E.P. • SURVEYING • PLANNING
TEL. (909) 885-3806
FAX (909) 381-1291
SCALE: NONE
DATE: 03-12-24

REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

SEWER PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS

ASSISTANT DIRECTOR DATE

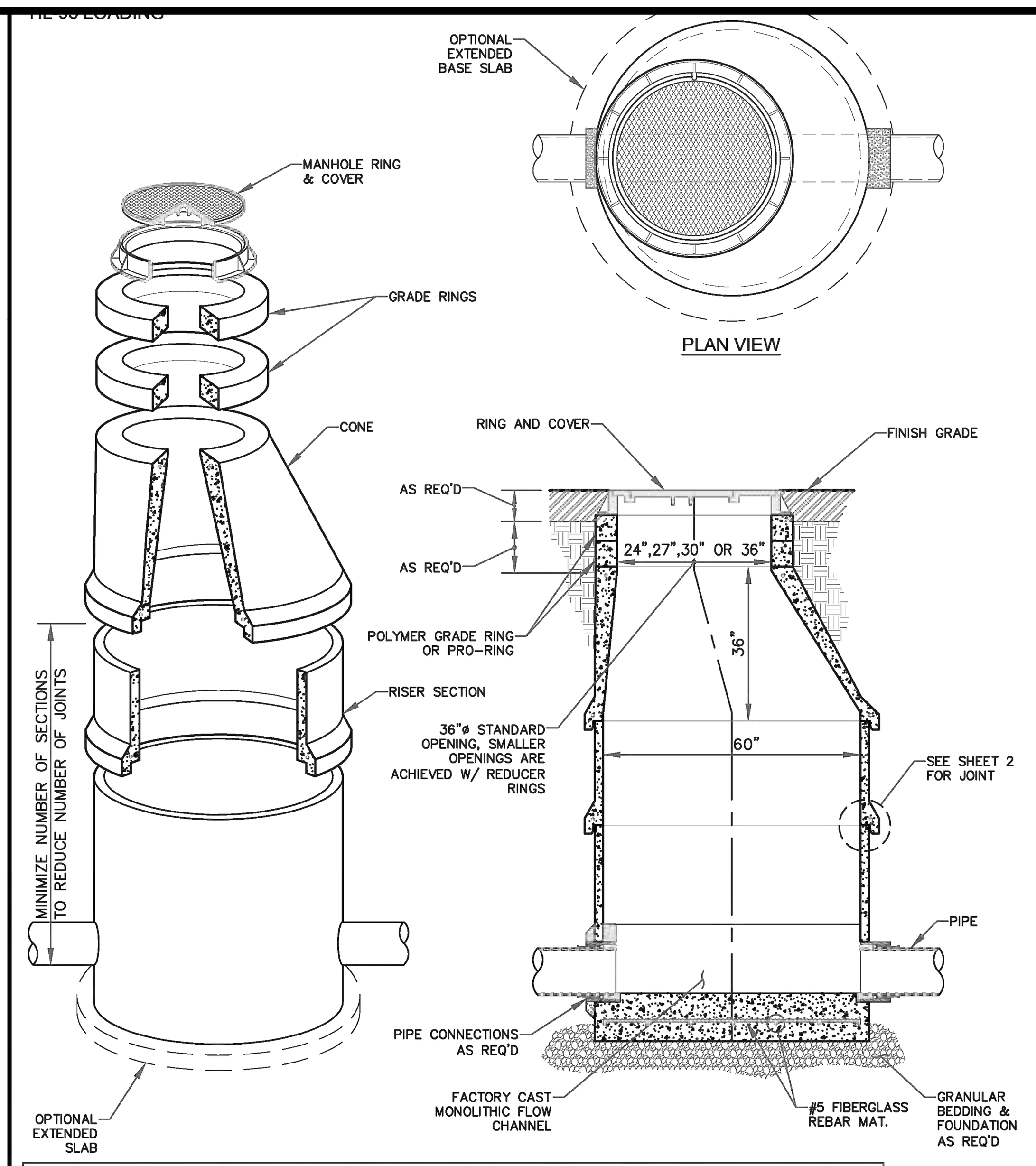
APPROVALS		INITIAL	DATE
	REVIEWER		
	WAS, DIVISION MANAGER		
	PM, DIVISION MANAGER		

SEWER IMPROVEMENT PLANS

APN: 0252-161-09 & 10
ANIMAL CARE CENTER
18313 VALLEY BLVD
BLOOMINGTON, CA 92313

PLAN AND PROFILE

DWG NO.
FILE NO.
SHEET 2 OF 3

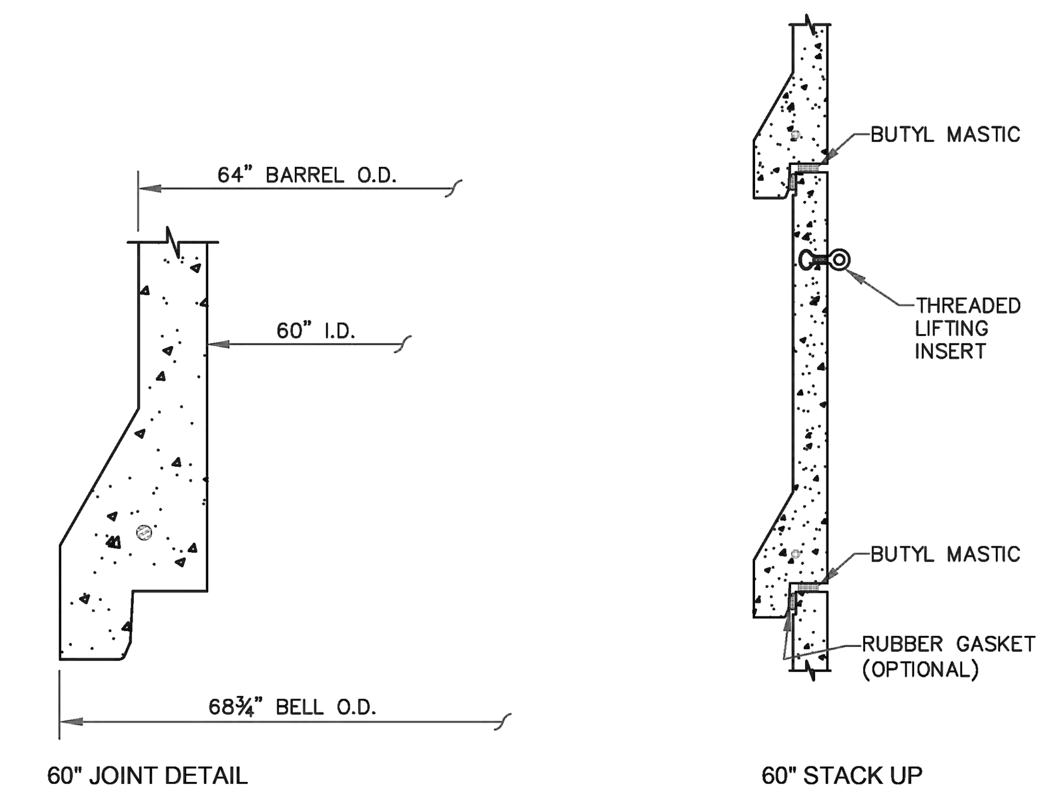


60" POLYMER MONOLITHIC MANHOLE SPECIFICATIONS

WALL THICKNESS	AVAILABLE BASE HEIGHTS	AVAILABLE RISER HEIGHTS	WALL WEIGHT/FT	APPROX. WEIGHT 3' BASE	APPROX. WEIGHT 4' BASE	CONE WEIGHT
2"	3', 4', 5'	1', 2', 3', 4', 5', 6', 7'	375 LBS/FT	5,640 LBS	6,350 LBS	2,000 LBS

**ADD 250 LBS TO EACH RISER FOR THE WEIGHT OF THE BELL.

ARMOROCK — SHEET: 60" POLYMER MANHOLE — SCALE: N.T.S. — DRAWN: RMP — DATE: 8-2-2016 — TITAN — 1 of 2

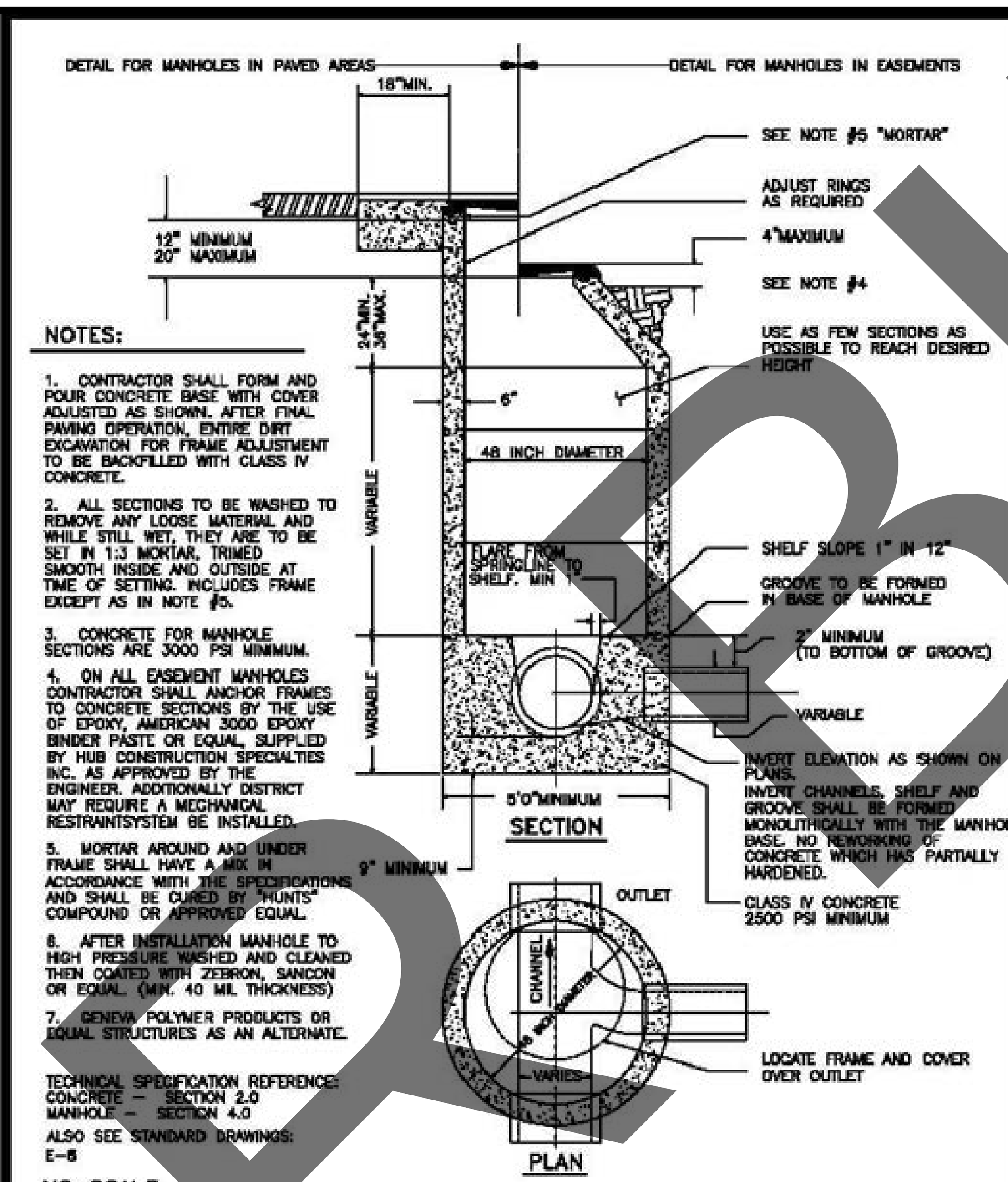


POLYMER MANHOLE SPECIFICATIONS

I.D.	O.D.	WALL THICKNESS	WEIGHT PER FOOT
60"	64"	2"	375 lb

**ADD 250 LBS TO EACH RISER FOR THE WEIGHT OF THE BELL.

ARMOROCK — SHEET: 60" POLYMER MANHOLE JOINT — SCALE: N.T.S. — DRAWN: RMP — DATE: 8-2-2016 — TITAN — 2 of 2



NOTES:

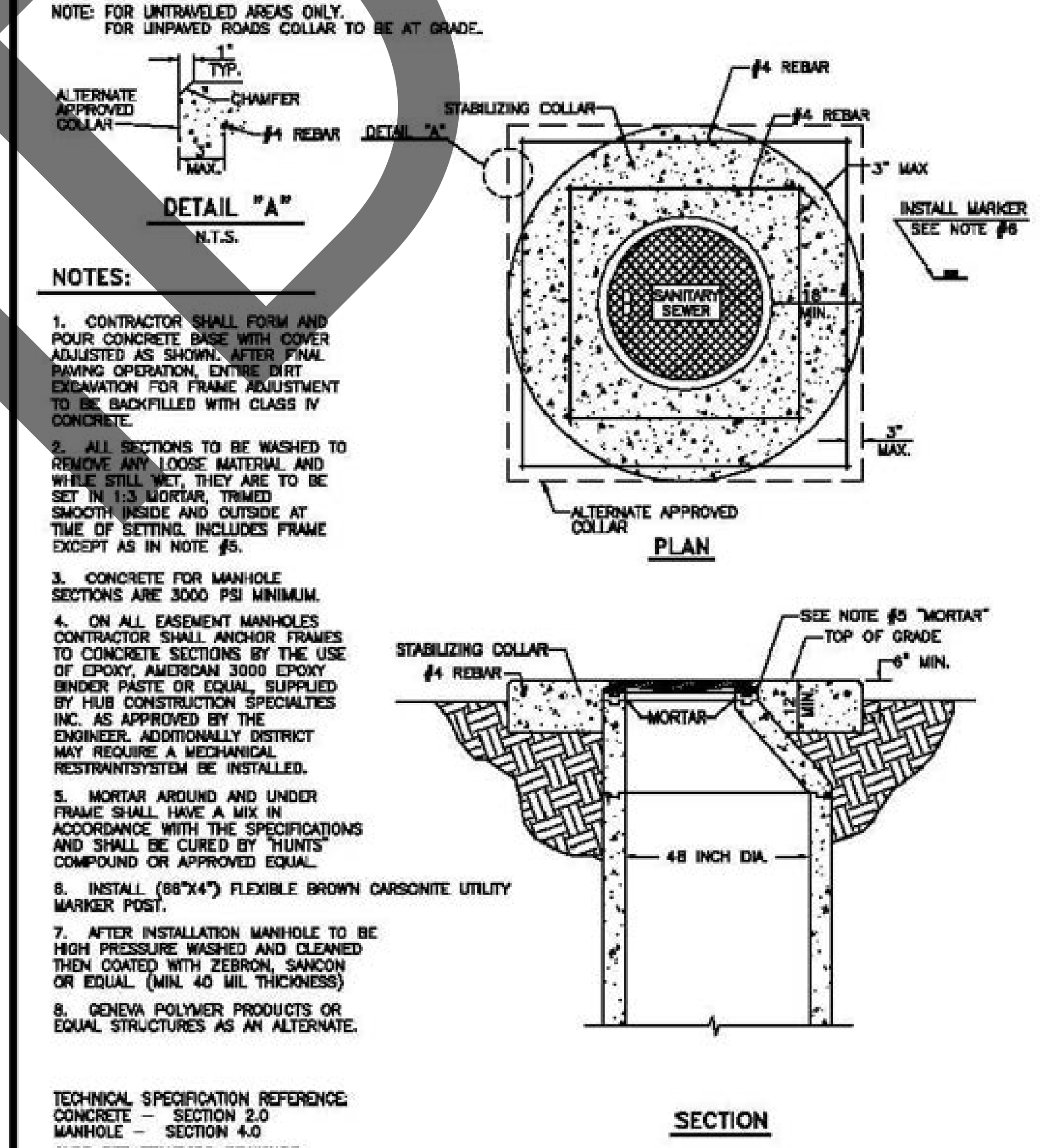
1. CONTRACTOR SHALL FORM AND POUR CONCRETE BASE WITH COVER ADJUSTED AS SHOWN. AFTER FINAL PAVING OPERATION, ENTIRE DIRT EXCAVATION FOR FRAME ADJUSTMENT TO BE BACKFILLED WITH CLASS IV CONCRETE.
2. ALL SECTIONS TO BE WASHED TO REMOVE ANY LOOSE MATERIAL AND WHILE STILL WET, THEY ARE TO BE SET IN 1:3 MORTAR, TRIMED SMOOTH INSIDE AND OUTSIDE AT TIME OF SETTING. INCLUDES FRAME EXCEPT AS IN NOTE #5.
3. CONCRETE FOR MANHOLE SECTIONS ARE 3000 PSI MINIMUM.
4. ON ALL EASEMENT MANHOLES CONTRACTOR SHALL ANCHOR FRAMES TO CONCRETE SECTIONS BY THE USE OF EPOXY, AMERICAN 3000 EPOXY BINDER PASTE OR EQUAL, SUPPLIED BY HUB CONSTRUCTION SPECIALTIES INC. AS APPROVED BY THE ENGINEER. ADDITIONALLY DISTRICT MAY REQUIRE A MECHANICAL RESTRAINTSYSTEM BE INSTALLED.
5. MORTAR AROUND AND UNDER FRAME SHALL HAVE A MIX IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL BE CURED BY "HUNTS" COMPOUND OR APPROVED EQUAL.
6. AFTER INSTALLATION MANHOLE TO HIGH PRESSURE WASHED AND CLEANED THEN COATED WITH ZEBRON, SANCON OR EQUAL. (MIN. 40 MIL THICKNESS)
7. GENEVA POLYMER PRODUCTS OR EQUAL STRUCTURES AS AN ALTERNATE.

TECHNICAL SPECIFICATION REFERENCE:
CONCRETE – SECTION 2.0
MANHOLE – SECTION 4.0
ALSO SEE STANDARD DRAWINGS: E-6

NO SCALE

REVISIONS — **PRECAST MANHOLE** — Approved: GARY MARTIN — Date: NOV-14-2012 — DRAWING NUMBER E-2

NOTE: FOR UNTRAVELED AREAS ONLY. FOR UNPAVED ROADS COLLAR TO BE AT GRADE.



NOTES:

1. CONTRACTOR SHALL FORM AND POUR CONCRETE BASE WITH COVER ADJUSTED AS SHOWN. AFTER FINAL PAVING OPERATION, ENTIRE DIRT EXCAVATION FOR FRAME ADJUSTMENT TO BE BACKFILLED WITH CLASS IV CONCRETE.
2. ALL SECTIONS TO BE WASHED TO REMOVE ANY LOOSE MATERIAL AND WHILE STILL WET, THEY ARE TO BE SET IN 1:3 MORTAR, TRIMED SMOOTH INSIDE AND OUTSIDE AT TIME OF SETTING. INCLUDES FRAME EXCEPT AS IN NOTE #5.
3. CONCRETE FOR MANHOLE SECTIONS ARE 3000 PSI MINIMUM.
4. ON ALL EASEMENT MANHOLES CONTRACTOR SHALL ANCHOR FRAMES TO CONCRETE SECTIONS BY THE USE OF EPOXY, AMERICAN 3000 EPOXY BINDER PASTE OR EQUAL, SUPPLIED BY HUB CONSTRUCTION SPECIALTIES INC. AS APPROVED BY THE ENGINEER. ADDITIONALLY DISTRICT MAY REQUIRE A MECHANICAL RESTRAINTSYSTEM BE INSTALLED.
5. MORTAR AROUND AND UNDER FRAME SHALL HAVE A MIX IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL BE CURED BY "HUNTS" COMPOUND OR APPROVED EQUAL.
6. INSTALL (66"X4") FLEXIBLE BROWN CARSONITE UTILITY MARKER POST.
7. AFTER INSTALLATION MANHOLE TO BE HIGH PRESSURE WASHED AND CLEANED THEN COATED WITH ZEBRON, SANCON OR EQUAL. (MIN. 40 MIL THICKNESS)
8. GENEVA POLYMER PRODUCTS OR EQUAL STRUCTURES AS AN ALTERNATE.

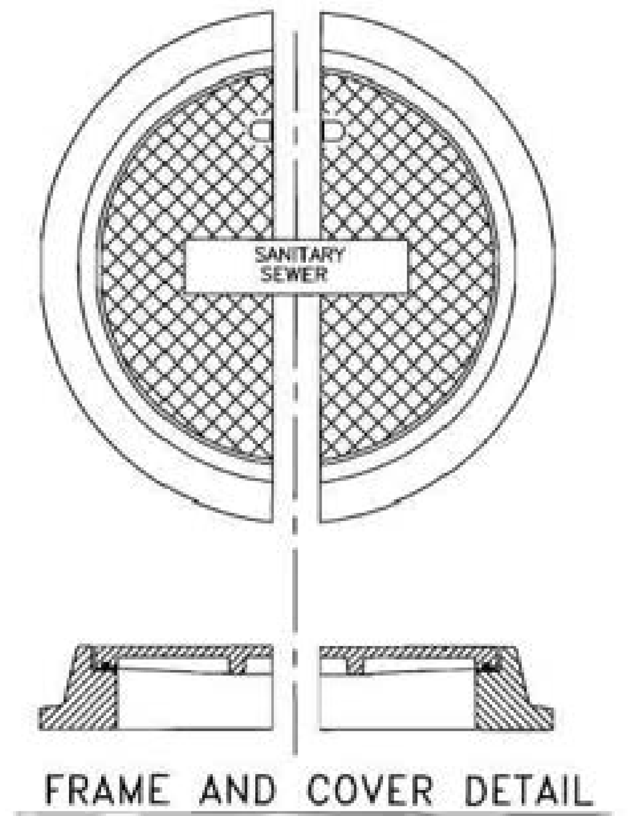
TECHNICAL SPECIFICATION REFERENCE:
CONCRETE – SECTION 2.0
MANHOLE – SECTION 4.0
ALSO SEE STANDARD DRAWINGS: E-6

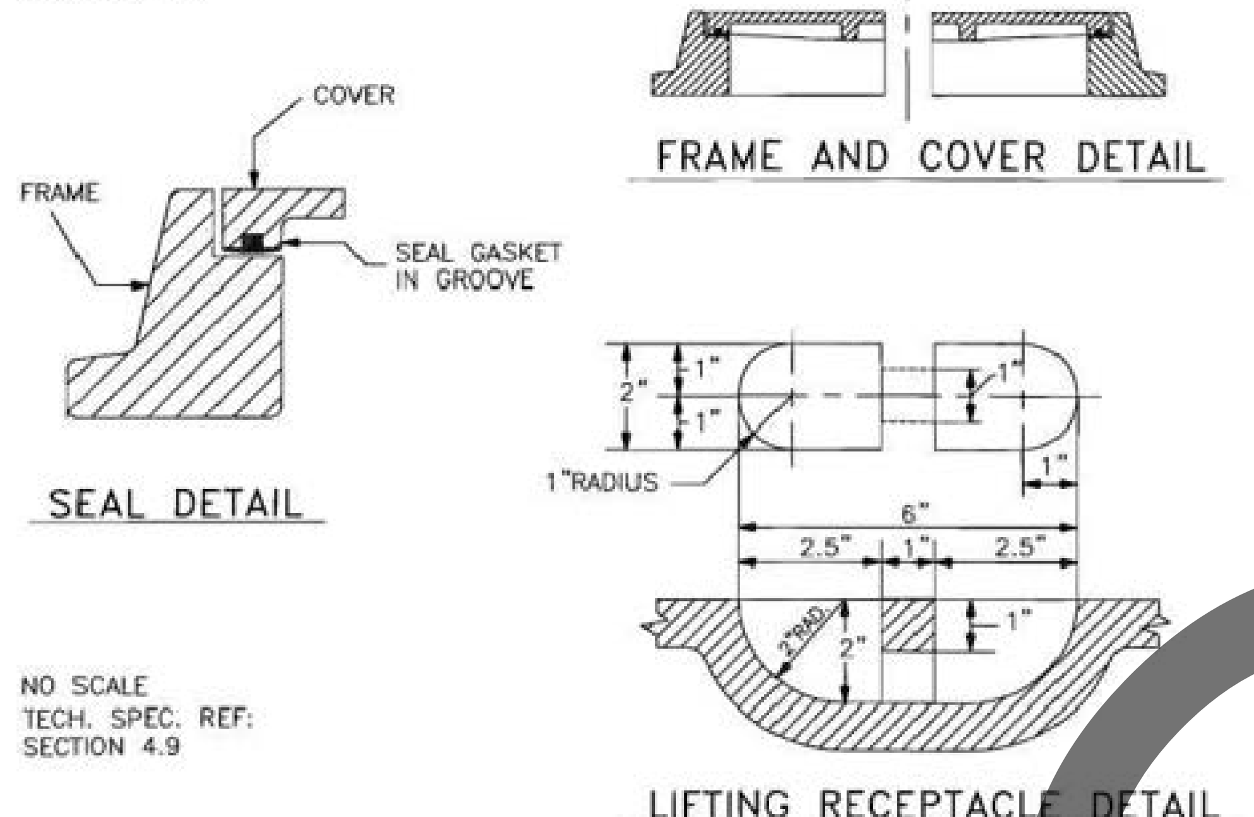
NO SCALE

REVISIONS — **PRECAST MANHOLE UNPAVED AREA** — Approved: GARY MARTIN — Date: NOV/14/12 — DRAWING NUMBER E-3A

NOTES:

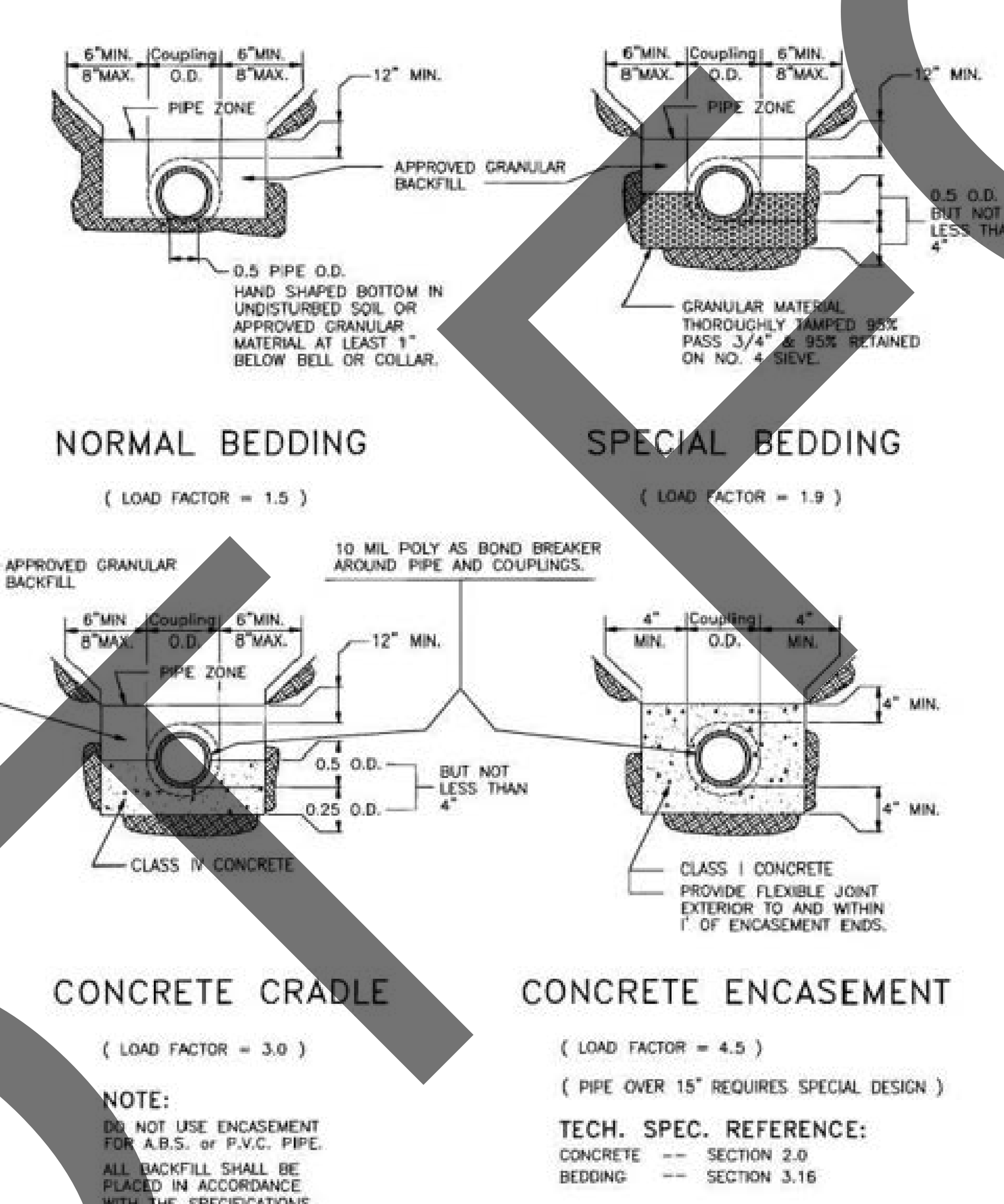
1. FRAME AND COVER SHALL BE NEENAH FOUNDRY COMPANY R–1916–F FRAME AND PLATEN LID BOLTED AND GASKETED W/"T" SEAL OR APPROVED EQUAL WITH LIFTING RECEPTACLE CAST INTO THE COVER AS PER DETAIL SHOWN. COVER SHALL HAVE DIAMOND TREAD AND THE WORDS "SANITARY SEWER" CAST INTO THE COVER.
2. BOLT–DOWN COVERS ARE REQUIRED IN ALL LOCATIONS AND ARE DENOTED THUSLY —⊙— ON THE PLANS.
3. TWO, ONE–HALF INCH STAINLESS STEEL OR MONEL STEEL HEXHEAD BOLTS REQUIRED FOR EACH BOLT DOWN COVER. BOLT HOLES SHALL BE DRILLED COMPLETELY THROUGH THE FRAME AND SHALL BE AMERICAN NATIONAL COARSE THREAD. COVER SHALL BE COUNTER BORED TO ALLOW BOLTS TO FINISH FLUSH WITH THE TOP OF THE COVER.
4. NO MANHOLE RING AND COVER SET SHALL BE LESS THAN TWENTY FOUR (24) INCHES INSIDE DIAMETER.





NO SCALE
TECH. SPEC. REF: SECTION 4.9

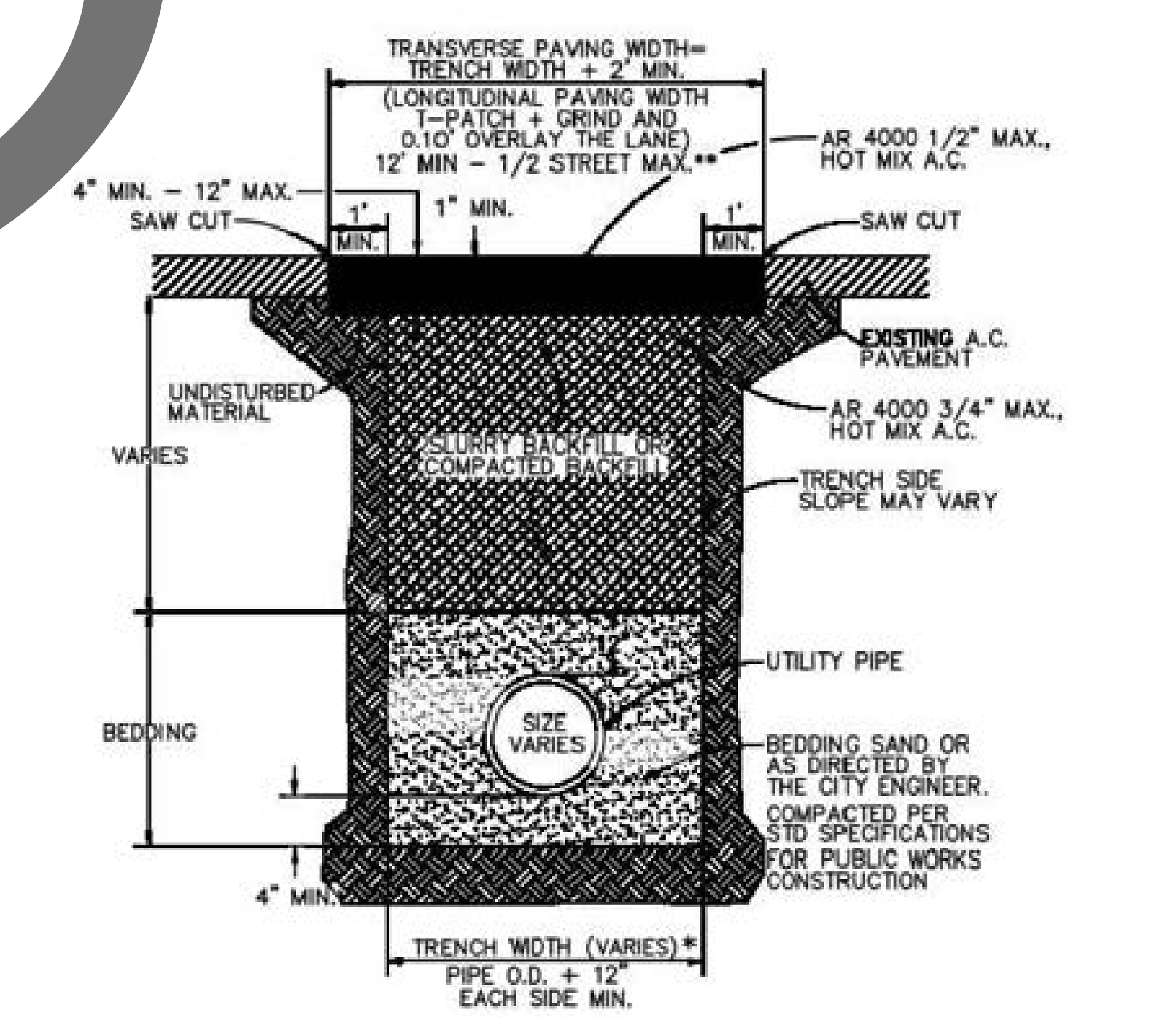
REVISIONS — **MANHOLE FRAME AND COVER** — Approved: Gary Martin — Date: 1/27/12 — DRAWING NUMBER E-5



NOTE:
DO NOT USE ENCASEMENT FOR A.B.S. or P.V.C. PIPE.
ALL BACKFILL SHALL BE PLACED IN ACCORDANCE WITH THE SPECIFICATIONS.

TECH. SPEC. REFERENCE:
CONCRETE -- SECTION 2.0
BEDDING -- SECTION 3.16

REVISIONS — **PIPE BEDDING** — Approved: Gary Martin — Date: 1/27/12 — DRAWING NUMBER E-18



* ACTUAL TRENCH WIDTH TO BE AT ENGINEER'S DISCRETION.

** LONGITUDINAL PAVEMENT REPAIR SHALL BE MINIMUM 12' TO LANE LINE OR 1/2 STREET AS DIRECTED BY CITY ENGINEER AND MAY REQUIRE OVERLAY OR SLURRY SEAL.

SEE SHEET 2 FOR GENERAL NOTES.

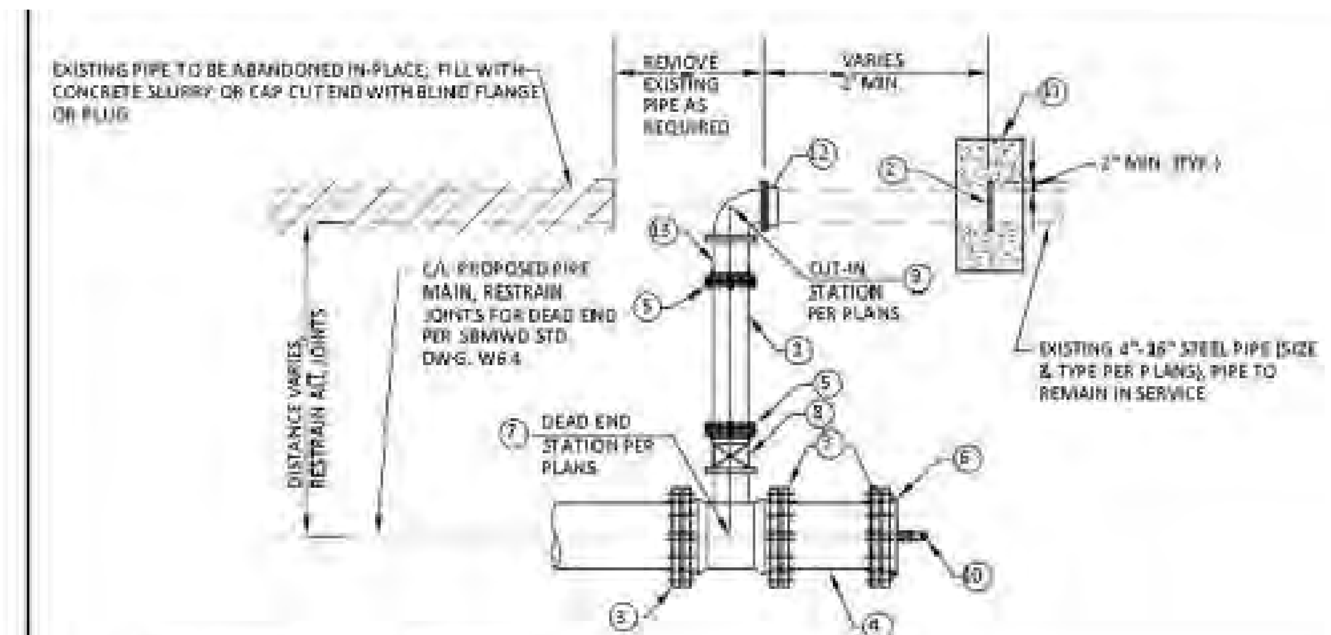
NOT TO SCALE

APPROVED BY: [signature] 11/25/14 — P.W. DIRECTOR/CITY ENGINEER — DATE

REVISIONS: DATE | BY | MARK | APPROVAL

TRENCH WORK

CITY OF RIALTO, CALIFORNIA PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION — STANDARD NO. SC-231 — SHT 1 OF 2



ITEM	QUANTITY	DESCRIPTION
1		AS REQUIRED EXISTING PIPE SIZE X REQUIRED LENGTH CLASS 50 DIP P.E. SPOOL
2	1 EA	EXISTING PIPE SIZE X 1" SPLIT STEEL PLATE, WELD TO PIPE ALL AROUND
3	1 EA	PROPOSED PIPE MAIN SIZE M.J. DUCTILE IRON RETAINER GLAND, EBBA IRON MEGALUG OR APPROVED EQUAL
4		AS REQUIRED PROPOSED PIPE MAIN SIZE X REQUIRED LENGTH CLASS 50 DIP P.E. SPOOL
5	1 EA	EXISTING PIPE SIZE EBBA IRON MEGALUG OR APPROVED EQUAL
6	1 EA	PROPOSED PIPE MAIN SIZE M.J. END CAP WITH 2" TAP
7	1 EA	PROPOSED PIPE MAIN RUN SIZE X EXISTING PIPE SIZE SIDE OUTLET (M.J. X M.J. X FLG UNLESS OTHERWISE SHOWN ON PLAN)
8	1 EA	EXISTING PIPE SIZE FLG X M.J. GATE VALVE PER SBMWD STD. DWG. 3.1
9	1 EA	EXISTING PIPE SIZE X 90° FLG BEND
10	1 EA	2" CHLORINATION AND FLUSHING PORT WITHOUT SERVICE SADDLE PER SBMWD STD. DWG. W6.07
11	1 EA	IN-LINE THRUST BLOCK PER SBMWD STD. DWG. W6.11
12	1 EA	EXISTING PIPE SIZE CL 150 AWWA SLIP ON FLG OR APPROVED FLG COUPLING ADAPTOR WITH ANCHOR STUDS, AT CONTRACTORS OPTION WITH INSULATOR, INC INSULATING KIT
13	1 EA	EXISTING PIPE SIZE FLG X MJ ADAPTOR

NOTE: ALL MATERIAL, CONSTRUCTION METHODS AND TESTING SHALL BE IN ACCORDANCE WITH SBMWD STANDARDS AND SPECIFICATIONS. A SBMWD INSPECTOR SHALL BE PRESENT AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY SBMWD.

SAN BERNARDINO MUNICIPAL WATER DEPARTMENT — **DETAIL FOR 4"-16" STEEL PIPE, CUT AND PLUG EXISTING WATER MAIN** — DRAWING NUMBER SBMWD W6.24

J.C.	10/10/17
D.D.M.	MAR. 11
REVISION	DATE
SCALE	NONE

APPROVED [signature] — DATE 07/04/2019

UNDERGROUND SERVICE ALERT
CALL BEFORE YOU DIG — Call: TOLL FREE 1-800-227-2600 OR 811
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NATIONAL GEODETIC SURVEY DATA SHEET
DESIGNATION: 700 10
PID: EV1239
ELEVATION: 1250.56' NAVD88

BASIS OF BEARINGS:
NAD83 CALIFORNIA STATE PLANE ZONE 5 GROUND
THE CENTERLINE OF VALLEY BLVD BEGIN N89°26'46"E

REGISTERED PROFESSIONAL ENGINEER — JAMES T. STANTON — No. C-70944 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

PREPARED BY:
BONADIAMAN — JOSEPH E. BONADIMAN & ASSOCIATES, INC. ENGINEERS • G.I.S. • SURVEYING • PLANNING
TEL. (909) 885-3806
234 NORTH ARROWHEAD AVE. SAN BERNARDINO, CA 92408
FAX (909) 381-1721
www.bonadiman.com

SCALE: NONE
DATE: 03-12-24

REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

SEWER PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS

		INITIAL	DATE
ASSISTANT DIRECTOR			
APPROVALS	REVIEWER		
	WAS, DIVISION MANAGER		
	PM, DIVISION MANAGER		

SEWER IMPROVEMENT PLANS

APN: 0252-161-09 & 10
ANIMAL CARE CENTER
18313 VALLEY BLVD
BLOOMINGTON, CA 92313

DETAILS

DWG NO.
FILE NO.
SHEET 3 OF 3

SAN BERNARDINO COUNTY GRADING PLAN

18313 VALLEY BLVD.
BLOOMINGTON, CA 92313
APN: 0252-161-09 & 10

GENERAL GRADING NOTES:

1. ALL GRADING SHALL CONFORM TO THE LATEST CALIFORNIA BUILDING CODE (CBC) CHAPTERS 17, 18, APPENDIX-J AND ALL APPLICABLE SECTIONS.
2. A GRADING PERMIT SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF ANY WORK ON THE SITE.
3. ISSUANCE OF A GRADING PERMIT DOES NOT ELIMINATE THE NEED FOR PERMITS FROM OTHER REGULATORY AGENCIES WITH REGULATORY RESPONSIBILITIES FOR CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE WORK AUTHORIZED IN THIS PLAN.
4. ALL WORK UNDER THIS PERMIT SHALL BE LIMITED TO WORK WITHIN THE PROPERTY LINES. A SEPARATE CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS MAY BE REQUIRED FOR ANY WORK WITHIN THE COUNTY RIGHT-OF-WAY.
5. APPROVAL OF THESE PLANS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE EFFECTIVE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED.
6. THIS PLAN IS FOR GRADING PURPOSES ONLY AND IS NOT TO BE USED FOR THE PURPOSE OF CONSTRUCTING ONSITE OR OFFSITE IMPROVEMENTS. ISSUANCE OF A PERMIT BASED ON THIS PLAN DOES NOT CONSTITUTE APPROVAL OF DRIVEWAY LOCATIONS OR SIZES, PARKING LOT STRUCTURAL SECTIONS OR LAYOUT, ADA-RELATED REQUIREMENTS, BUILDING LOCATIONS OR FOUNDATIONS, WALLS, CURBING, OFFSITE DRAINAGE FACILITIES OR OTHER ITEMS NOT RELATED DIRECTLY TO THE BASIC GRADING OPERATION. ONSITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE APPROVED BUILDING PERMIT PLANS. OFFSITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE TO PLANS APPROVED FOR THIS PURPOSE BY THE PUBLIC WORKS DEPARTMENT.
7. MAXIMUM CUT AND FILL SLOPE = 2:1 (HORIZONTAL TO VERTICAL) AND MAXIMUM VERTICAL HEIGHT = 30 FEET, UNLESS AN APPROVED GEOTECHNICAL REPORT CAN JUSTIFY A STEEPER AND TALLERSLOPE.
8. NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL.
9. FILL SLOPES SHALL NOT HAVE LESS THAN 90% RELATIVE COMPACTION, OR AS RECOMMENDED ON THE APPROVED GEOTECHNICAL REPORT.
10. IT IS THE GRADING CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ADEQUATE COMPACTION HAS BEEN ATTAINED ON THE ENTIRE GRADING SITE, INCLUDING FILL AREAS OUTSIDE THE BUILDING PADS AND ON ALL FILLSLOPES.
11. UNLESS OTHERWISE RECOMMENDED IN AN APPROVED GEOTECHNICAL REPORT, OVER-EXCAVATION SHALL BE AT LEAST 24 INCHES MINIMUM BELOW THE BOTTOM OF FOOTINGS OR TO COMPETENT NATIVE SOIL OR BEDROCK MATERIALS, WHICHEVER IS DEEPER, AS APPROVED BY THE PROJECT'S GEOTECHNICAL ENGINEER OR GEOLOGIST.
12. EARTHWORK VOLUMES: CUT 673 (CY), FILL 25,914 (CY), TOTAL DISTURBED AREA 264,445 (SF)
13. EARTHWORK QUANTITIES ARE SHOWN FOR GRADING PERMIT PURPOSES ONLY, AND SAN BERNARDINO COUNTY IS NOT RESPONSIBLE FOR THEIR ACCURACY.
14. A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
15. ANY ONSITE RETAINING WALLS SHOWN ON THE GRADING PLANS THAT ARE OVER 4' IN HEIGHT, MEASURED FROM TOP OF WALL TO BOTTOM OF FOOTING, ARE FOR REFERENCE ONLY. RETAINING WALLS OVER 4' IN HEIGHT ARE NOT CHECKED, PERMITTED, OR INSPECTED PER THE GRADING PERMIT. A SEPARATE RETAINING WALL PERMIT IS REQUIRED FOR ALL RETAINING WALLS OVER 4' IN HEIGHT.
16. ANY WALLS, FENCES, STRUCTURES AND/OR APPURTENANCES ADJACENT TO THIS PROJECT ARE TO BE PROTECTED IN PLACE. IF GRADING OPERATIONS DAMAGE OR ADVERSELY AFFECT SAID ITEMS IN ANY WAY, THE CONTRACTOR AND/OR DEVELOPER IS RESPONSIBLE FOR WORKING OUT AN ACCEPTABLE SOLUTION TO THE SATISFACTION OF THE AFFECTED PROPERTY OWNER(S).
17. FOR SITES WITH PROTECTED SPECIES OR TREES, THE PROPOSED GRADING MAY BE SUBJECT TO A SEPARATE PERMIT.
18. ADEQUATE FIRE ACCESS AROUND BUILDINGS (INCLUDING GARAGES) SHOULD BE PROVIDED AS APPROVED BY COUNTY FIRE.
19. EXISTING DRAINAGE COURSES SHALL NOT BE OBSTRUCTED, ALTERED, OR DIVERTED WITHOUT PRIOR APPROVAL FROM THE SAN BERNARDINO COUNTY, LAND DEVELOPMENT DIVISION. A STREAMBED ALTERATION AGREEMENT MAY ALSO BE REQUIRED FROM THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE.
20. DRAINAGE EASEMENTS SHALL NOT BE OBSTRUCTED, ALTERED OR DIVERTED WITHOUT PRIOR APPROVAL OF THE SAN BERNARDINO COUNTY, LAND DEVELOPMENT DIVISION.
21. SETBACKS AND BUILDING LOCATIONS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND MUST BE REVIEWED AND APPROVED UNDER A SEPARATE BUILDING PERMIT.
22. UTILITY AND SEPTIC IMPROVEMENTS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND MUST BE REVIEWED AND APPROVED UNDER A SEPARATE BUILDING PERMIT.
23. ON PROJECTS DISTURBING ONE ACRES OR MORE, THE FOLLOWING NOTE MUST BE ADDED: A NOTICE OF INTENT (NOI) HAS BEEN, OR WILL BE FILED WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN OR WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (PERMIT NO. CAS000002) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE PERMITTEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY COUNTY.
24. IN CONJUNCTION WITH THE CALIFORNIA GENERAL PERMIT FOR PROPOSED DISTURBANCE OVER ONE ACRE, AN ACTIVE WASTEWATER DISCHARGE ID # (WDID) _____ MUST BE INCLUDED ON THE FINAL GRADING PLAN.
25. A FINAL GRADING CERTIFICATION WILL BE COLLECTED BY THE BUILDING INSPECTOR AT THE FINAL BUILDING INSPECTION OR PRIOR TO A GRADING FINAL STATUS ON THE PERMIT. THE FINAL GRADING CERTIFICATION IS TO BE COMPLETED BY THE ENGINEER OF RECORD.
26. THE SOILS ENGINEER SHALL PROVIDE A FINAL SOIL GRADING REPORT INCLUDING LOCATIONS AND ELEVATIONS OF FIELD DENSITY TESTS, SUMMARIES OF FIELD AND LABORATORY TESTS AND OTHER SUBSTANTIATING DATA AND COMMENTS ON ANY CHANGES MADE DURING GRADING AND THEIR EFFECT ON THE RECOMMENDATIONS MADE IN THE SOIL ENGINEERING INVESTIGATION REPORT. IT SHALL ALSO PROVIDE INFORMATION AS TO LOCATION AND NATURE OF TESTS, STATEMENTS RELATIVE TO THE EXPANSIVE NATURE OF SOIL AND/OR ROCK MATERIAL, LIMITS OF COMPACTED FILL SHOWN ON THE AS-GRADED PLAN AND CERTIFICATION AS TO THE ADEQUACY AND STABILITY OF THE SITE FOR THE INTENDED USE.
27. IF APPLICABLE, THE ENGINEERING GEOLOGIST SHALL PROVIDE A GEOLOGIC GRADING REPORT INCLUDING A FINAL DESCRIPTION OF THE GEOLOGY OF THE SITE INCLUDING ANY NEW INFORMATION DISCLOSED DURING THE GRADING AND THE EFFECT OF SAME ON RECOMMENDATIONS INCORPORATED IN THE APPROVED GRADING PLAN. THE ENGINEERING GEOLOGIST SHALL PROVIDE CERTIFICATION AS TO THE ADEQUACY OF THE SITE FOR THE INTENDED USE AS AFFECTED BY GEOLOGIC FACTORS. WHERE NECESSARY, A REVISED GEOLOGIC MAP AND CROSSSECTIONS, AND ANY RECOMMENDATIONS REGARDING SPECIAL BUILDING RESTRICTIONS OR FOUNDATION SETBACKS SHALL BE INCLUDED.
28. SHOULD THE EXCAVATION DISCLOSE SOIL AND/OR ROCK CONDITIONS WHERE CUT SLOPES ARE UNSTABLE, THE ENGINEERING GEOLOGIST AND/OR THE SOILS ENGINEER SHALL RECOMMEND NECESSARY TREATMENT TO THE BUILDING OFFICIAL FOR APPROVAL.

OWNER/APPLICANT:

SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVE., 3rd FLOOR
SAN BERNARDINO, CA 92415

ATTN: KENNETH HYLIN, SR. PROJECT MANAGER
PHONE: (909) 387-5000
EMAIL: KENNETH.HYLIN@PFM.SBCOUNTY.GOV

SOILS ENGINEER

CONVERSE CONSULTANTS
2021 RANCHO DRIVE, SUITE 1
REDLANDS, CA 92373
909-796-0544
PROJECT NO. 22-81-206-01

BASIS OF BEARINGS

NAD83 CALIFORNIA STATE PLANE ZONE 5 GROUND
THE CENTERLINE OF VALLEY BLVD BEGIN N89°26'46"E

BENCHMARK

NATIONAL GEODETIC SURVEY DATA SHEET

DESIGNATION: 700 10
PID: EV1239
ELEVATION: 1250.56' NAVD88

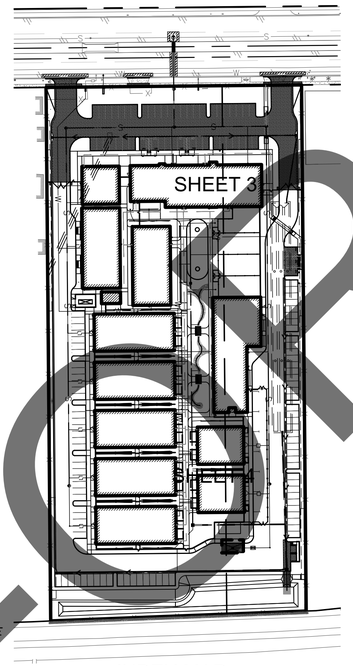
GENERAL GRADING NOTES (CONT):

29. GEOLOGICAL AND SOILS ENGINEERING REPORTS BY CONVERSE CONSULTANTS, DATED JANUARY 18, 2023 AND ALL SOILS REPORT ADDENDUM(DA) SHALL BE INCORPORATED HEREWITH AND MADE PART OF THIS GRADING PLAN.
30. THE CONTRACTOR SHALL IMPLEMENT PREVENTIVE MEASURES TO ASSURE THAT NO ROCKS, SOIL, DUST, OR DEBRIS OF ANY FORM SHALL FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES OR PUBLIC WAYS. ALL VEHICLE
31. ALL EXPORT AND IMPORT OF MATERIAL OVER DEDICATED AND IMPROVED STREETS SHALL BE UNDERTAKEN OR CONDUCTED BY EQUIPMENT THAT COMPLIES IN ALL RESPECTS TO THE STATE VEHICLE CODE. REPAIR TO ANY DAMAGED DEDICATED OR IMPROVED STREETS SHALL BE MADE TO THE SATISFACTION OF THE BUILDING OFFICIAL AND IS THE RESPONSIBILITY OF THE OWNER, PERMITTEE, AND THE GRADING CONTRACTOR.LOADS SHALL BE TRIMMED AND WATERED OR OTHERWISE SECURED TO PREVENT SPILLAGE FROM THE EQUIPMENT.
32. ALL FLOOD ZONE REQUIREMENTS MUST BE REFLECTED OR ACCOUNTED FOR ON THE GRADING PLANS. ELEVATIONS OR CONSTRUCTION NOTES MUST BE INCLUDED IN THE PLANS TO ENSURE COMPLIANCE WITH ALL APPLICABLE FIRST FLOOR ELEVATION REQUIREMENTS PER FEMA AND SAN BERNARDINO COUNTY DEVELOPMENT CODE GUIDELINES.
33. ALL GRADING SHALL COMPLY WITH SBC DEVELOPMENT CODE SECTION 82.14.050.C: IF FILL IS PLACED TO ELEVATE PADS ABOVE BASE ELEVATION, IT MUST BE DEMONSTRATED THAT FILL WILL NOT SETTLE AND IS PROTECTED FROM EROSION, SCOUR, OR DIFFERENTIAL SETTLEMENT, AS FOLLOWS. THE PAD ELEVATION SHALL BE CERTIFIED TO MEET OR EXCEED THE ELEVATION REQUIRED BY THE APPLICABLE FLOODPLAIN SAFETY REVIEW AREA, AND IT MUST BE DEMONSTRATED THAT THE CUMULATIVE EFFECT OF THE PROPOSED DEVELOPMENT WHEN COMBINED WITH ALL OTHER EXISTING AND ANTICIPATED DEVELOPMENT WILL NOT INCREASE THE WATER SURFACE ELEVATION OF THE BASE FLOOD AT ANY POINT WITHIN THE COMMUNITY.
    a) FILL SHALL BE COMPACTED TO 95 PERCENT PER ASTM (AMERICAN SOCIETY OF TESTING MATERIALS) STANDARD D-698.
    b) FILL SLOPES SHALL BE NO STEEPER THAN TWO FEET HORIZONTAL TO ONE FOOT VERTICAL RATIO UNLESS SUBSTANTIATING DATA FOR STEEPER SLOPES IS PROVIDED, AND THE SLOPES ARE APPROVED BY THE COUNTY.
    c) FILL SLOPES ADJACENT TO A WATER COURSE MAY BE REQUIRED TO BE ARMORED WITH STONE, ROCK OR APPROVED EQUAL PROTECTION.
34. CALIFORNIA GREEN BUILDING STANDARDS CODE 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. FOR A PHASED PROJECT, SUCH MATERIAL MAY BE STOCKPILED ON SITE UNTIL THE STORAGE SITE IS DEVELOPED.

EXCEPTION: REUSE, EITHER ON-OR OFF-SITE, OF VEGETATION OR SOIL CONTAMINATED BY DISEASE OR PEST INFESTATION.

NOTES:
1. IF CONTAMINATION BY DISEASE OR PEST INFESTATION IS SUSPECTED, CONTACT THE COUNTY AGRICULTURAL COMMISSIONER AND FOLLOW ITS DIRECTION FOR RECYCLING OR DISPOSAL OF THE MATERIAL. (WWW.CDFA.CA.GOV/EXEC/COUNTY/COUNTY_CONTACTS.HTML)
   FOR A MAP OF KNOWN PEST AND/OR DISEASE QUARANTINE ZONES, CONSULT WITH THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE. (WWW.CDFA.CA.GOV)

SHEET INDEX:



INDEX MAP
SCALE: 1" = 100'

PARCEL COVERAGE:

TYPE:	AREA:	%
BUILDING:	69,617 SF	26.33%
HARDSCAPE:	116,242 SF	43.96%
LANDSCAPE:	78,586 SF	29.71%
TOTAL:	264,445 SF	100%

SPECIAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A "QUALIFIED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PRACTITIONER" (QSP) FOR ALL RECORDS, INSPECTIONS AND AND DOCUMENTATION REQUIRED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN.
2. THE "QUALIFIED SWPPP PRACTITIONER" (QSP) SHALL UPDATE THE SWPPP AND EROSION CONTROL PLAN PER FIELD CONDITION AS OUTLINE IN TABLE 1.1 OF THE SWPPP.
3. THE QSP SHALL DOCUMENT ALL CHANGES TO THE SWPPP AND EROSION CONTROL PLAN FOR THE DURATION OF THE PROJECT.
4. THE QSP SHALL KEEP ALL RECORD, INSPECTION REPORTS, ETC. AND PROVIDED COPIES AS PART OF THE ANNUAL REPORT.

EARTHWORK QUANTITIES:

CONSTRUCTION MAY VARY.

CUT 673 CUBIC YARDS
FILL 25,914 CUBIC YARDS

EARTH WORK QUANTITIES NOTE: THE ABOVE LISTED QUANTITIES REFLECT THE ENGINEER'S ESTIMATE OF THE ACTUAL VOLUMES OF MATERIAL CUT AND FILLED. THESE QUANTITIES ARE FOR ESTIMATING AND BONDING PURPOSE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR COMPUTING HIS OWN QUANTITIES FOR CONTRACT PURPOSES.

LEGAL DESCRIPTION

ALL THAT CERTAIN REAL PROPERTY SITUATED IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

PARCEL NO. 1: (APN: 0252-161-09)

THAT PORTION OF LOT 101, OF THE SUBDIVISION OF MARYGOLD ACRES, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 19, PAGE 15 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF SAID LOT 101; THENCE EASTERLY ALONG THE NORTHERLY LINE OF SAID LOT, 111 FEET TO THE NORTHWEST CORNER OF THE LAND CONVEYED TO V. K. AUXIER, ET UX., BY DEED RECORDED DECEMBER 12, 1946, IN BOOK 1976, PAGE 257 OF OFFICIAL RECORDS; THENCE SOUTHERLY ALONG THE WESTERLY LINE OF SAID LAND TO A POINT IN THE NORTHERLY LINE OF PROPERTY CONVEYED TO THE STATE OF CALIFORNIA, BY DEED RECORDED MAY 23, 1945, IN BOOK 1791 OF OFFICIAL RECORDS, PAGE 29; THENCE WESTERLY ALONG THE NORTHERLY LINE OF SAID PROPERTY CONVEYED TO THE STATE OF CALIFORNIA TO THE WESTERLY LINE OF SAID LOT 101; THENCE NORTHERLY ALONG SAID WESTERLY LINE TO THE POINT BEGINNING.

EXCEPT THEREFROM THAT PORTION CONVEYED TO THE STATE OF CALIFORNIA, BY GRANT DEED RECORDED APRIL19, 1982 AS INSTRUMENT NO. 82-074750 OF OFFICIAL RECORDS.

PARCEL NO. 2: (APN 0252-161-10)
LOT 102, MARYGOLD ACRES, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 19, PAGE 15 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EXCEPTING THEREFROM THE WEST 2 ACRES THEREOF.
ALSO EXCEPTING THEREFROM THAT PORTION CONVEYED TO THE STATE OF CALIFORNIA FOR THE PURPOSE OF A FREEWAY BY DEED RECORDED JANUARY 30, 1945 IN BOOK 1732 PAGE 220 OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM THAT PORTION CONVEYED TO THE STATE OF CALIFORNIA, BY GRANT DEED RECORDED APRIL19, 1982 AS INSTRUMENT NO. 82-074750 OF OFFICIAL RECORDS

LEGEND

ASPH	ASPHALTIC CONCRETE SURFACE	EXISTING CONCRETE SURFACE
BT	BOTTOM OF TRENCH	
CB	CATCH BASIN	PROPOSED PULVERIZED ASPHALT
C&G	CURB AND GUTTER	PROPOSED CRACK SEAL & SLURRY
CL	CENTER LINE	PROPOSED ASPHALT
DDC	DOUBLE DETECTOR CHECK	
DWY	DRIVEWAY	
(E)	EXISTING	RIGHT OF WAY
FF	FINISH FLOOR	
FG	FINISH GRADE	PROPERTY LINE
FL	FLOWLINE	
FS	FINISHED SURFACE	CENTERLINE
GB	GRADE BREAK	
GW	GUY WIRE	EXISTING BLOCK OR STONE WALL
INV	INVERT OF PIPE	
MH	MANHOLE	FLOWLINE
N.T.S.	NOT TO SCALE	
PP	POWER POLE	GRADE BREAK
ST	STREET	
TC	TOP OF CURB	FILL SLOPE
TF	TOP OF FOOTING	
TW	TOP OF WALL	INDICATES DIRECTION OF FLOW
TYP	TYPICAL	
WI	WROUGHT IRON	(1500) CONTOUR ELEVATION (FEET)
WM	WATER METER	
		ADA PATH OF TRAVEL

STORMWATER POLLUTION CONTROL REQUIREMENTS FOR GRADING:

1. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND SHALL NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
2. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY FORCES OF WIND OR WATER.
3. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER SPILLS MAY NOT BE WASHED OUT INTO THE DRAINAGE SYSTEM.
4. EXCESS OR WASTED CONCRETE SHALL NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
5. TRASH AND CONSTRUCTION - RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
6. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITION MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
7. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.

DECLARATION OF ENGINEER OF RECORD:

1. THE CIVIL ENGINEER RESPONSIBLE FOR PLAN PREPARATION SHALL SIGN THE FOLLOWING STATEMENT:

   "I CERTIFY THAT I WILL BE RESPONSIBLE FOR THIS GRADING IN ACCORDANCE WITH SECTION 7014(C) OF THE BUILDING CODE TO INCLUDE INCORPORATING ALL RECOMMENDATIONS OF THE SOILS ENGINEER, REPORT AND BE RESPONSIBLE FOR PROFESSIONAL INSPECTION AND APPROVAL OF THE GRADING. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO INSPECTION AND APPROVAL AS TO THE ESTABLISHMENTS OF LINE GRADE AND DRAINAGE OF DEVELOPMENT AREA. I WILL ALSO BE RESPONSIBLE FOR THE PREPARATION OF REVISED PLANS AND THE SUBMISSION OF "AS GRADED" GRADING PLANS UPON THE COMPLETION OF THE WORK."

   _____ _____ _____
   SUPERVISING CIVIL ENGINEER R.C.E. DATE

2. THE SOILS ENGINEER SHALL SIGN THE FOLLOWING STATEMENT:

   "I SHALL PROVIDE PROFESSIONAL INSPECTION AND APPROVAL CONCERNING THE PREPARATION OF GROUND TO RECEIVE FILLS, TESTING FOR REQUIRED COMPACTION STABILITY OF ALL FINISHED SLOPES AND INCORPORATING THE DATA SUPPLIED BY THE ENGINEERING GEOLOGIST AND THE PREPARATION OF THE SOILS GRADING REPORT."

   _____ _____ _____
   SUPERVISING SOIL ENGINEER R.C.E. DATE

3. NO GRADING IN EXCESS OF 5000 CU. YDS. SHALL BE STARTED WITHOUT FIRST NOTIFYING THE ENGINEER. A PRE-GRADING MEETING AT THE SITE IS REQUIRED BEFORE START OF GRADING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, SUPERVISING CIVIL ENGINEER, SOILS ENGINEER AND /OR GEOLOGIST, CITY CONSTRUCTION INSPECTORS OR THEIR REPRESENTATIVES.
4. THE PERMITTEE OR HIS AGENT SHALL NOTIFY THE CITY OF RIALTO WHEN THE GRADING OPERATION (EXCEEDING 5000 CU. YDS.) IS READY FOR REQUIRED INSPECTIONS AS SHOWN IN THE TESTING AND INSPECTION REQUIREMENTS OF DIVISION V.

UNAUTHORIZED CHANGES & USES:

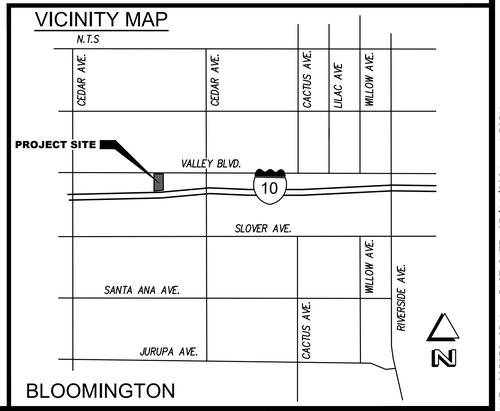
CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO, OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING, AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENTS CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PREVENT DAMAGE TO ANY UTILITY LINES SHOWN, AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

CONSTRUCTION CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION CONTRACTOR FURTHER AGGRESS TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

WDID#

VICINITY MAP



BLOOMINGTON

Underground Service Alert
DIG ALERT BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NATIONAL GEODETIC SURVEY DATA SHEET
DESIGNATION: 700 10
PID: EV1239
ELEVATION: 1250.56' NAVD88

PREPARED BY:
BONADIMAN
JOSEPH E. BONADIMAN & ASSOCIATES, INC.
ENGINEERING · G.I.S. · SURVEYING · PLANNING
TEL. (909) 885-3806
201 NORTH ARROWHEAD AVE.
SAN BERNARDINO, CA 92408
FAX (909) 381-7721
www.bonadiman.com

SCALE: NONE
DATE: 03-13-24

SEAL
REGISTERED PROFESSIONAL ENGINEER
JAMES T. STANFORD
No. C-70944
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE

ENGINEER
DESIGNED BY: JTS DRAWN BY: JTS CHECKED BY: JTS

SAN BERNARDINO COUNTY
DEPARTMENT OF LAND USE SERVICES

OSVALDO ROQUE DATE
SUPERVISING ENGINEER, TRAFFIC DIVISION

JEREMY JOHNSON DATE
ENGINEERING MANAGER, TRAFFIC DIVISION

RECOMMENDED BY:

APPROVED BY:
MICHAEL FAM DATE
ENGINEERING MANAGER, LAND DEVELOPMENT DIVISION

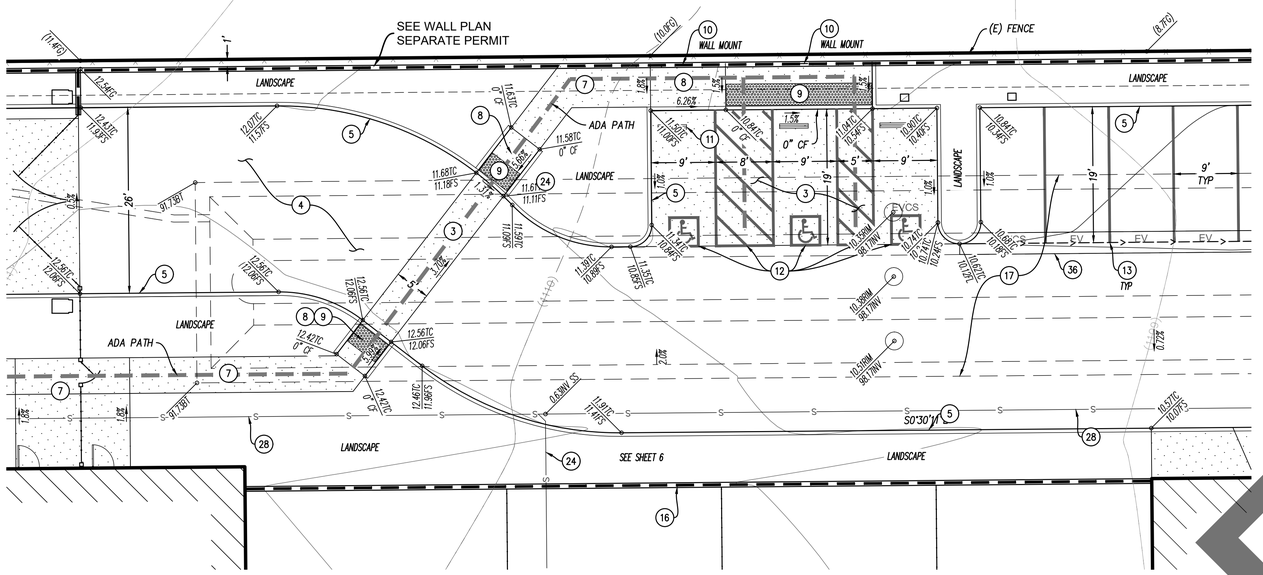
GRADING PLAN

TITLE SHEET
18313 VALLEY BLVD.
BLOOMINGTON,CA 92313

FILE NO.
GRAD 2024-00007

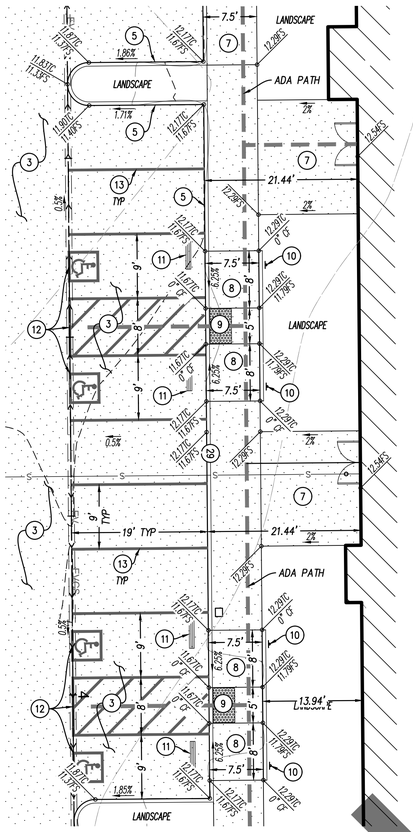
SHEET 1 OF 14

JOB #: 184546 DRAWING NAME: 225038 GP.dwg PLOT DATE: 03/14/2024 - 4:30PM



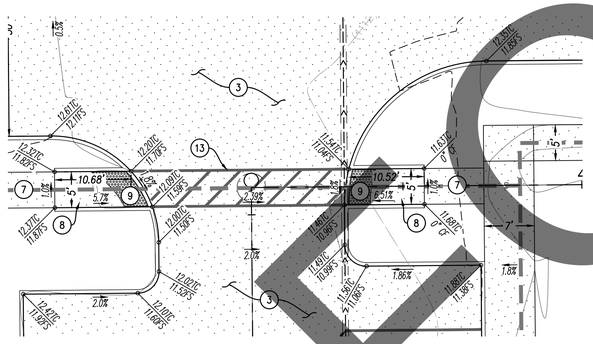
DETAIL 1

SCALE: 1" = 10'



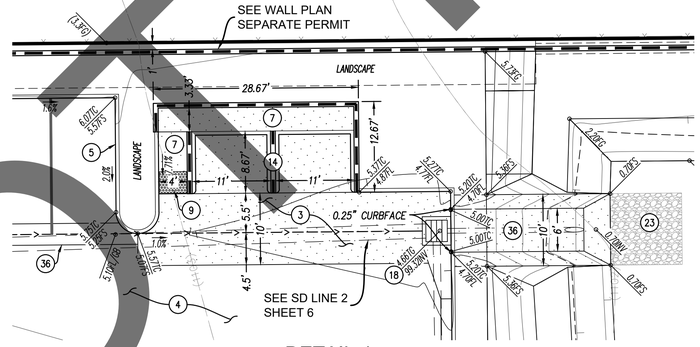
DETAIL 2

SCALE: 1" = 10'



DETAIL 5

SCALE: 1" = 10'



DETAIL 4

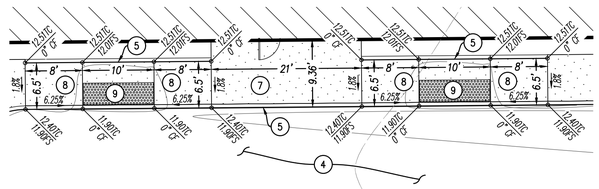
SCALE: 1" = 10'

SIDEWALK CONSTRUCTION NOTES

1. ALL WORK SHALL COMPLY WITH AMERICAN CONCRETE INSTITUTE (ACI) STANDARDS AND PRACTICES.
2. SIDEWALK AND RAMPS SHALL BE 4 INCHES THICK CLASS B P.C.C. AND ATTAIN 4,000 PSI COMPRESSIVE STRENGTH AFTER 28 DAY CURING. SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED TO 90% MAX. DRY DENSITY PER ASTM 1557 WITH OPTIMAL MOISTURE.
3. THE MAXIMUM JOINT SPACING IN FEET SHOULD NOT EXCEED 2.5 TIMES THE THICKNESS IN INCHES.
4. THE DISTANCE BETWEEN JOINTS SHALL NOT EXCEED 1.5 TIMES THE WIDTH.
5. PROVIDE STRAIGHT JOINTS PARALLEL WITH OR AT RIGHT ANGLES TO THE WALK CENTERLINE. JOINTS SHALL BE ALIGN WITH JOINTS IN ADJOINING WORK UNLESS ISOLATED BY 1/2-INCH PREFORMED ISOLATION MATERIAL.
6. JOINT GROOVE SHALL HAVE A DEPTH OF 1/4 THE THICKNESS OF THE SLAB, BUT NOT LESS THAN ONE INCH. TOOLED JOINTS MUST BE RUN EARLY IN THE FINISHING PROCESS AND RERUN LATER TO ASSURE GROOVE BOND HAS NOT OCCURRED. CONTROL JOINTS CAN BE TOOLED DURING FINISHING OR SAWED WITH A CARBORUNDUM BLADE WITHIN 24 HOURS OF PLACEMENT.
7. CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE TO AVOID PONDING. ALL EXTERIOR CONCRETE FLAT WORK SHALL HAVE A MINIMUM 0.5% SLOPE IN AT LEASE ON DIRECTION.
8. CONCRETE PAVEMENT SMOOTHNESS. ALL CONCRETE PAVEMENT BID ITEMS ARE GOVERNED BY THE STRAIGHTEDGE EVALUATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORRECTIVE WORK THAT IS NOT IN COMPLIANCE WITH THE FOLLOWING:
   A. STRAIGHTEDGE EVALUATION: THE ENGINEER WILL ALLOW VARIATIONS LESS THAN OR EQUAL TO 1/4 INCH WITHIN THE SPAN OF A 10-FOOT STRAIGHTEDGE IN THE LONGITUDINAL OR TRANSVERSE DIRECTION TO REMAIN IN PLACE WITHOUT CORRECTION OR PENALTY. THE ENGINEER WILL REQUIRE CORRECTIVE WORK ON SURFACE DEVIATIONS GREATER THAN ¼ INCH WITHIN THE SPAN OF THE 10-FOOT STRAIGHTEDGE IN ANY DIRECTION. FOR CORRECTED VARIATIONS, THE ENGINEER WILL ACCEPT DEVIATIONS LESS THAN OR EQUAL TO ¼ INCH WITHIN THE SPAN OF 10-FOOT STRAIGHTEDGE IN ANY DIRECTION.
   B. REGARDLESS OF SMOOTHNESS THE MAXIMUM CROSS SHALL NOT EXCEED 2% (1:50).
   C. REGARDLESS OF SMOOTHNESS THE MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5% (1:20) EXCEPT WHERE RAMPS WITH HANDRAILS ARE SHOWN ON THE PLANS. IN WHICH CASE, REGARDLESS OF SMOOTHNESS, THE MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 8.33% (1:12).
9. ALL SIDEWALKS SHALL PROVIDE A 48" MINIMUM UNOBSTRUCTED WIDTH.
10. DOORS THAT ENCROACH INTO WALKWAYS SHALL HAVE A MINIMUM 60" X 60" LEVEL LANDING WITH MAXIMUM SLOPE OF 2.0% (1:50) IN ANY DIRECTION. LANDING SHALL EXTEND A MINIMUM OF 24" BEYOND STRIKE EDGE OF DOOR.
11. DOORS THAT SWING AWAY FROM WALKWAYS SHALL HAVE A MINIMUM 48" WIDE X 44" DEEP LEVEL LANDING WITH A MAXIMUM SLOPE OF 2.0% (1:50) IN ANY DIRECTION. LANDING SHALL EXTEND A MINIMUM OF 24" BEYOND STRIKE EDGE OF DOOR.
12. ALL SIDEWALKS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDING.
13. ABRUPT CHANGES IN LEVEL SHALL BE AVOIDED WHERE POSSIBLE AND SHALL NOT EXCEED 1/4".
14. EXISTING LEVEL CHANGES BETWEEN 1/4" – 1/2" SHALL BE BEVELED WITH A MINIMUM GRADIENT OF 50% (1:2).
15. ABRUPT CHANGES IN LEVEL ADJACENT TO WALKWAY/SIDEWALK SHALL NOT EXCEED 4" WITHOUT PROVIDING WARNING CURB, EXCEPT WHEN WALKWAY/SIDEWALK IS ADJACENT TO STREET OF DRIVEWAY.
16. ABRUPT CHANGES IN LEVEL ADJACENT TO WALKWAY/SIDEWALK EXCEEDING 4" IN VERTICAL DIMENSION SHALL BE IDENTIFIED BY CURB PROJECTING AT LEAST 6" IN HEIGHT ABOVE SIDEWALK.
17. IF LEVEL CHANGE BETWEEN WALKWAY/SIDEWALK AND ADJACENT GRADE EXCEEDS 30' IN HEIGHT HANDRAILS SHALL BE PROVIDED.
18. CONTRACTOR SHALL HALT CONSTRUCTION AND NOTIFY THE ENGINEER IN WRITING IF ANY SURFACES DO NOT COMPLY WITH THE ABOVE STANDARDS OR IF ANY DISCREPANCIES APPEARS ON THESE PLAN.
19. SURFACE FINISH WITH A FINE CONCRETE FINISHING BROOM.
20. THESE STANDARDS DO NOT SUPERSEDE ANY STANDARDS, DRAWINGS OR REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC), LATEST EDITION, OR AS REQUIRED BY ADA/CALDAG.

CONSTRUCTION NOTES:

		QTY
1	CONSTRUCT BUILDING FOOTING AND SLAB PER ARCHITECTURAL PLANS AND SOILS REPORT RECOMMENDATIONS.	~
2	OVEREXCAVATE BEYOND THE PERIMETER OF PROPOSED STRUCTURES IN ACCORDANCE WITH THE SOILS REPORT RECOMMENDATIONS.	~
3	CONSTRUCT 6.5" THICK CONCRETE PAVING (4,000 PSI) OVER 12" SCARIFIED & 95% COMPACTED NATIVE PER ASTM D 1557.	25,192 SF.
4	CONSTRUCT 4" AC OVER 4.5" CLASS II BASE OVER 12" SCARIFIED & 95% COMPACTED NATIVE PER ASTM D 1557.	54,259 SF.
5	CONSTRUPT 6" TYPE "A1-6" CURB (560-C-3250) PER SPPWC STD. 120-3, W=18". SHEET 10.	3,961 LF.
6	CONSTRUCT 6" TYPE "A2-6" CURB (560-C-3250) PER SPPWC STD. 120-3, W=18". SHEET 10.	988 LF.
7	CONSTRUCT 4" THICK CONCRETE SIDEWALK (4,000 PSI), COLOR/FINISH PER ARCH PLAN, OVER 12" SCARIFIED & 95% COMPACTED NATIVE PER ASTM D 1557.	30,580 SF.
8	CONSTRUCT HANDICAP RAMP PER CALTRANS DETAIL A88A, SHEET 11.	9 EA.
9	INSTALL DETECTABLE WARNING PER CALTRANS DETAIL A88A, SEE DETAIL SHEET 11.	222 SF.
10	INSTALL HANDICAP PARKING SIGN PER CALTRANS DETAIL A90A, SEE DETAIL SHEET 11.	7 EA.
11	INSTALL WHEEL STOP PER CALTRANS DETAIL A90A, SEE DETAIL SHEET 11.	7 EA.
12	INSTALL HANDICAP PARKING STRIPING/SYMBOL PER CALTRANS DETAIL A90A, SHEET 11.	7 EA.
13	INSTALL 4" WIDE WHITE STRIPING AS SHOWN.	~
14	CONSTRUCT TRASH ENCLOSURE, SEE ARCHITECTS PLANS.	1 EA.
15	CONSTRUCT BARK WALL, SEE WALL PLAN (SEPARATE PERMIT).	488 LF.
16	CONSTRUCT 6' HIGH BLOCK WALL, SEE WALL PLAN (SEPARATE PERMIT).	690 LF.
17	CONSTRUCT UNDERGROUND STORAGE BASIN PER MANUFACTURES PLANS, SEE SHEET 12.	1 EA.
18	INSTALL 24" SQ. PRECAST CATCH BASIN, JENSEN MODEL: DI2424 OR EQUAL, W/ TRAFFIC GRATE (H-20), W/ INSERT FILTER PER DETAIL & STORM DRAIN SYSTEM STENCILING PER CALTRANS DETAIL STD. D71, SEE SHEET 10.	4 EA.
19	INSTALL 36" SQ. PRECAST CATCH BASIN, JENSEN MODEL: DI3636 OR EQUAL, W/ TRAFFIC GRATE (H-20), W/ INSERT FILTER PER DETAIL & STORM DRAIN SYSTEM STENCILING PER CALTRANS DETAIL STD. D71, SEE SHEET 10.	2 EA.
20	INSTALL 8" HDPE, TYPE S, STORM DRAIN PIPE.	20 LF.
21	INSTALL 12" HDPE, TYPE S, STORM DRAIN PIPE.	1,090 LF.
22	INSTALL 30" HDPE, TYPE S, STORM DRAIN PIPE.	322 LF.
23	INSTALL RIPRAP/COBBLE, D_{50}=6", PER DETAIL SHEET 10.	96 SF.
24	INSTALL 4" SDR 35 PVC SEWER LINE PER PLAN, 1% MIN SLOPE.	485 LF.
25	INSTALL 4" SEWER CLEAN OUT.	5 EA.
26	INSTALL 6" SDR 35 PVC SEWER LINE PER PLAN, 1% MIN SLOPE.	143 LF.
27	INSTALL 6" CLEAN OUT.	2 EA.
28	INSTALL 8" SDR 35 PVC SEWER LINE PER PLAN, 0.33% MIN SLOPE.	1,314 LF.
29	INSTALL 48" PRECAST MANHOLE.	5 EA.
30	INSTALL 500 GAL OIL WATER SEPARATOR, OLD CASTLE 4X6-5000WS OR EQUAL, SHEET 11.	1 EA.
31	INSTALL 2" PVC WATER LINE PER DETAIL 5.	1,112 LF.
32	INSTALL 6" HDPE, TYPE C, STORM DRAIN PIPE.	1,465 LF.
33	INSTALL 12" SQ. CATCH BASIN, W/ ATRIUM GRATE AND CATCH BASIN FILTER PER DETAIL SHEET 11.	34 EA.
34	INSTALL 2" REDUCED PRESSURE BACKFLOW PREVENTER.	1 EA.
35	INSTALL 4" REDUCED PRESSURE BACKFLOW PREVENTER.	1 EA.
36	CONSTRUCT 3' WIDE X 6" THICK VALLEY GUTTER PER DETAIL SHEET 3.	366 LF.
37	CONSTRUCT 6' WIDE TRAPEZOIDAL DOWN DRAIN PER DETAIL SHEET 7.	366 LF.
38	INSTALL CHAIN LINK FENCE W/ GATES PER ARCHITECTURAL PLANS.	245 LF.



DETAIL 3

SCALE: 1" = 10'

25 0 25 50 75

SCALE: 1"=25'

Underground Service Alert
DIG ALERT BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NATIONAL GEODETIC SURVEY DATA SHEET
DESIGNATION: 700 10
PID: EV1239
ELEVATION: 1250.56' NAVD88

PREPARED BY:
BONADIMAN
JOSEPH E. BONADIMAN & ASSOCIATES, INC.
ENGINEERING · G.I.S. · SURVEYING · PLANNING
TEL. (909) 885-3806
201 NORTH ARROWHEAD AVE.
SAN BERNARDINO, CA 92408
FAX (909) 381-1727
www.bonadiman.com
SCALE: NONE
DATE: 03-13-24

SEAL
REGISTERED PROFESSIONAL ENGINEER
JAMES T. STANTON
No. C-70944
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

DATE	BY	MARK	APPR.	DATE
ENGINEER		REVISIONS		

DESIGNED BY: JTS DRAWN BY: JTS CHECKED BY: JTS

SAN BERNARDINO COUNTY
DEPARTMENT OF LAND USE SERVICES

OSVALDO ROQUE DATE
SUPERVISING ENGINEER, TRAFFIC DIVISION

JEREMY JOHNSON DATE
ENGINEERING MANAGER, TRAFFIC DIVISION

RECOMMENDED BY:

APPROVED BY:

MICHAEL FAM DATE
ENGINEERING MANAGER, LAND DEVELOPMENT DIVISION

GRADING PLAN

DETAILS
18313 VALLEY BLVD.
BLOOMINGTON,CA 92313

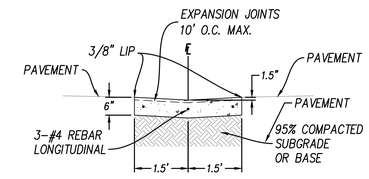
FILE NO.
GRAD 2024-00007

SHEET 2 OF 14

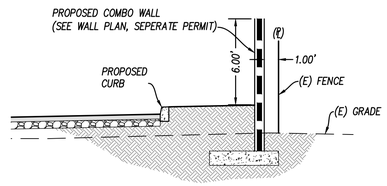
JOB #: 184546 DRAWING NAME: 225038 GP.dwg PLOT DATE: 03/14/2024 - 4:30PM

CONSTRUCTION NOTES:

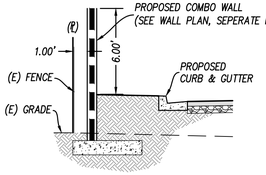
1. CONSTRUCT BUILDING FOOTING AND SLAB PER ARCHITECTURAL PLANS AND SOILS REPORT RECOMMENDATIONS.
2. OVEREXCAVATE BEYOND THE PERIMETER OF PROPOSED STRUCTURES IN ACCORDANCE WITH THE SOILS REPORT RECOMMENDATIONS.
3. CONSTRUCT 6.5" THICK CONCRETE PAVING (4,000 PSI) OVER 12" SCARIFIED & 95% COMPACTED NATIVE PER ASTM D 1557.
4. CONSTRUCT 4" AC OVER 4.5" CLASS II BASE OVER 12" SCARIFIED & 95% COMPACTED NATIVE PER ASTM D 1557.
5. CONSTRUCT 6" TYPE "A1-6" CURB (560-C-3250) PER SPPWC STD. 120-3, W=18". SHEET 10.
6. CONSTRUCT 6" TYPE "A2-6" CURB (560-C-3250) PER SPPWC STD. 120-3, W=18". SHEET 10.
7. CONSTRUCT 4" THICK CONCRETE SIDEWALK (4,000 PSI), COLOR/FINISH PER ARCH PLAN, OVER 12" SCARIFIED & 95% COMPACTED NATIVE PER ASTM D 1557.
13. INSTALL 4" WIDE WHITE STRIPING AS SHOWN.
15. CONSTRUCT BARK WALL, SEE WALL PLAN (SEPARATE PERMIT).
16. CONSTRUCT 6' HIGH BLOCK WALL, SEE WALL PLAN (SEPARATE PERMIT).
17. CONSTRUCT UNDERGROUND STORAGE BASIN PER MANUFACTURES PLANS, SEE SHEET 12.
18. INSTALL 24" SQ. PRECAST CATCH BASIN, JENSEN MODEL: DI2424 OR EQUAL, W/ TRAFFIC GRATE (H-20), W/ INSERT FILTER PER DETAIL & STORM DRAIN SYSTEM STENCILING PER CALTRANS DETAIL STD. D71, SEE SHEET 10.
36. CONSTRUCT 3' WIDE X 6" THICK VALLEY GUTTER PER DETAIL SHEET 3.
38. INSTALL CHAIN LINK FENCE W/ GATES PER ARCHITECTURAL PLANS.



7 3' VALLEY GUTTER
N.T.S.



SECTION B
N.T.S



SECTION A
N.T.S

20 0 20 40 60
SCALE: 1"=20'

MATCHLINE ~ SEE SHEET 3

Underground Service Alert
DIG ALERT BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NATIONAL GEODETIC SURVEY DATA SHEET
DESIGNATION: 700 10
PID: EV0239
ELEVATION: 1250.56' NAVD88

PREPARED BY:
BONADIMAN
JOSEPH E. BONADIMAN & ASSOCIATES, INC.
ENGINEERS · C.I.P. · SURVEYING · PLANNING
TEL. (909) 885-3806
261 NORTH ARROWHEAD AVE.
SAN BERNARDINO, CA 92408
FAX (909) 381-1721
www.bonadiman.com
SCALE: NONE
DATE: 03-13-24

SEAL
REGISTERED PROFESSIONAL ENGINEER
JAMES T. STANFORD
No. C-70944
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE
			ENGINEER		

DESIGNED BY: JTS DRAWN BY: JTS CHECKED BY: JTS

SAN BERNARDINO COUNTY
DEPARTMENT OF LAND USE SERVICES

OSVALDO ROQUE DATE
SUPERVISING ENGINEER, TRAFFIC DIVISION

JEREMY JOHNSON DATE
ENGINEERING MANAGER, TRAFFIC DIVISION

RECOMMENDED BY:

APPROVED BY:

MICHAEL FAM DATE
ENGINEERING MANAGER, LAND DEVELOPMENT DIVISION

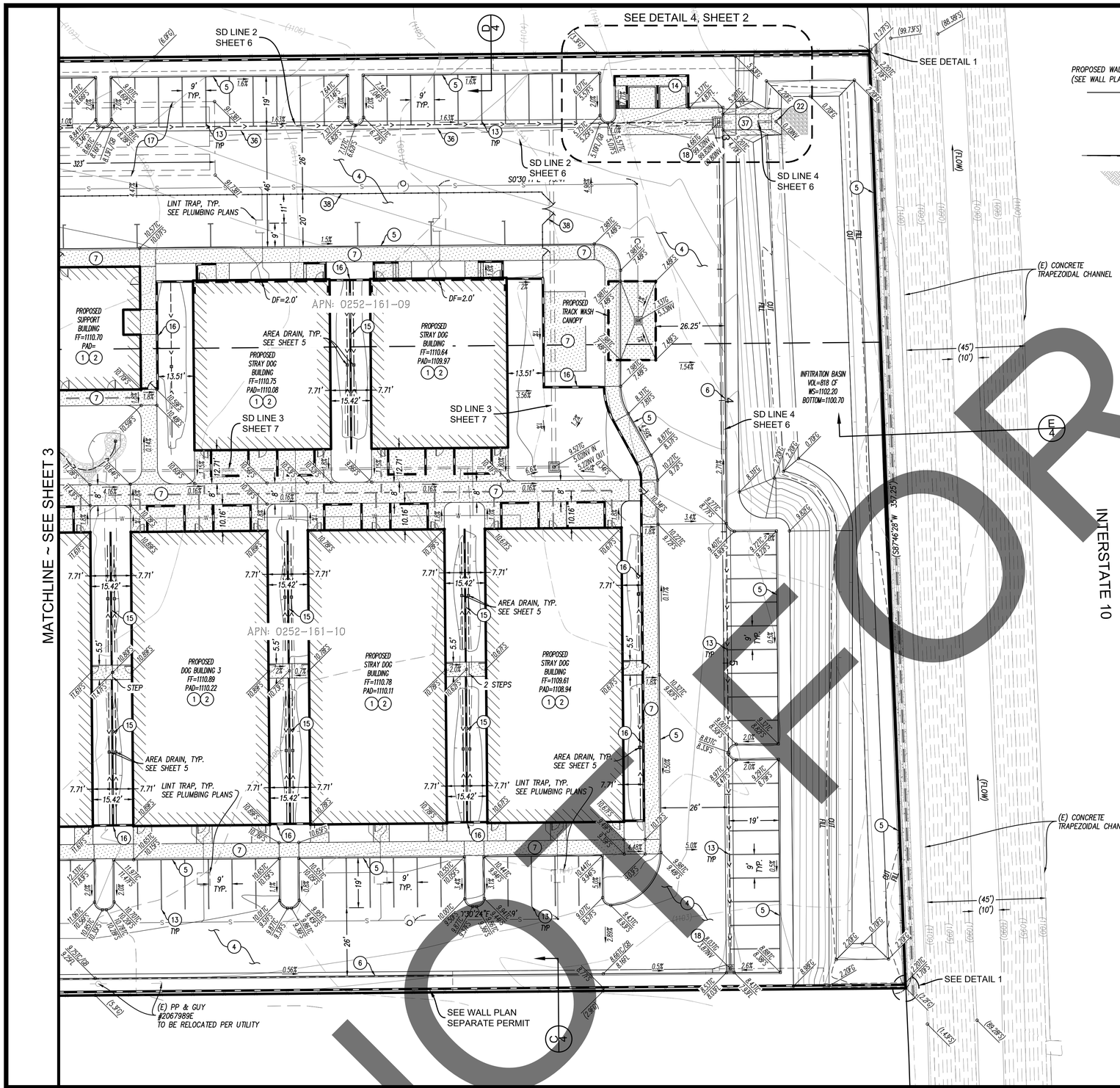
GRADING PLAN

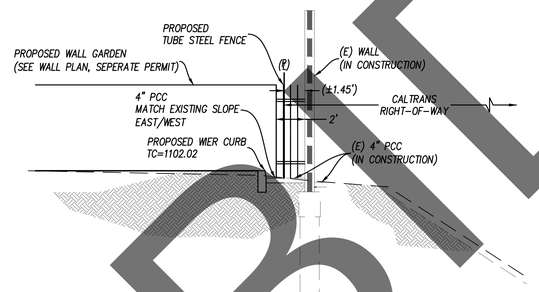
GRADING PLAN
18313 VALLEY BLVD.
BLOOMINGTON,CA 92313

FILE NO.
GRAD 2024-00007

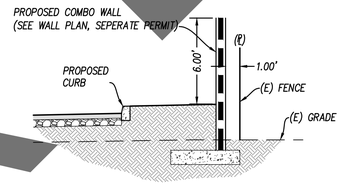
SHEET 3 OF 14

JOB #: 184546 DRAWING NAME: 225038 GP.dwg PLOT DATE: 03/14/2024 - 4:30PM

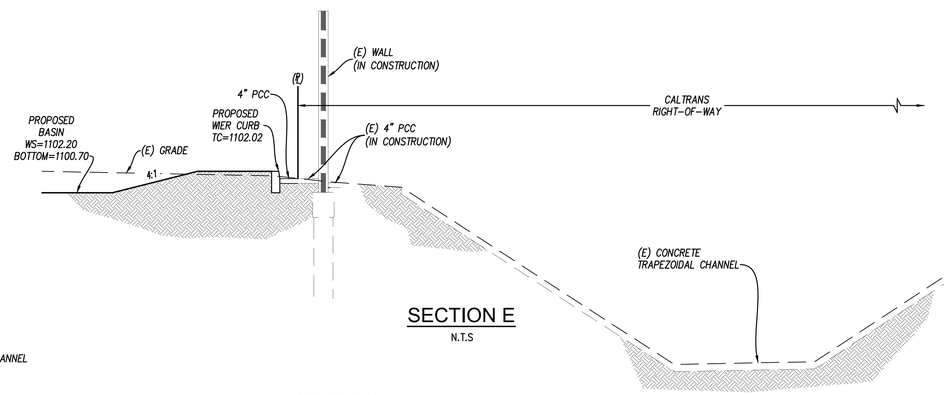




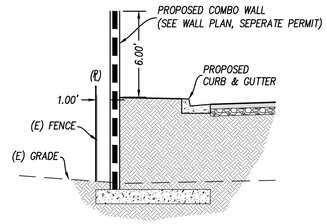
DETAIL 1
N.T.S



SECTION D
N.T.S



SECTION E
N.T.S



SECTION C
N.T.S

CONSTRUCTION NOTES:

1. CONSTRUCT BUILDING FOOTING AND SLAB PER ARCHITECTURAL PLANS AND SOILS REPORT RECOMMENDATIONS.
2. OVEREXCAVATE BEYOND THE PERIMETER OF PROPOSED STRUCTURES IN ACCORDANCE WITH THE SOILS REPORT RECOMMENDATIONS.
4. CONSTRUCT 4" AC OVER 4.5" CLASS II BASE OVER 12" SCARIFIED & 95% COMPACTED NATIVE PER ASTM D 1557.
5. CONSTRUCT 6" TYPE "A1-6" CURB (560-C-3250) PER SPPWC STD. 120-3, W=18". SHEET 10.
6. CONSTRUCT 6" TYPE "A2-6" CURB (560-C-3250) PER SPPWC STD. 120-3, W=18". SHEET 10.
7. CONSTRUCT 4" THICK CONCRETE SIDEWALK (4,000 PSI), COLOR/FINISH PER ARCH PLAN, OVER 12" SCARIFIED & 95% COMPACTED NATIVE PER ASTM D 1557.
13. INSTALL 4" WIDE WHITE STRIPING AS SHOWN.
14. CONSTRUCT TRASH ENCLOSURE, SEE ARCHITECTS PLANS.
15. CONSTRUCT BARK WALL, SEE WALL PLAN (SEPARATE PERMIT).
16. CONSTRUCT 6' HIGH BLOCK WALL, SEE WALL PLAN (SEPARATE PERMIT)..
17. CONSTRUCT UNDERGROUND STORAGE BASIN PER MANUFACTURES PLANS, SEE SHEET 12.
18. INSTALL 24" SQ. PRECAST CATCH BASIN, JENSEN MODEL: DI2424 OR EQUAL, W/ TRAFFIC GRATE (H-20), W/ INSERT FILTER PER DETAIL & STORM DRAIN SYSTEM STENCILING PER CALTRANS DETAIL STD. D71, SEE SHEET 10.
36. CONSTRUCT 3' WIDE X 6" THICK VALLEY GUTTER PER DETAIL SHEET 3.
38. INSTALL CHAIN LINK FENCE W/ GATES PER ARCHITECTURAL PLANS.

20 0 20 40 60
SCALE: 1"=20'

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NATIONAL GEODETIC SURVEY DATA SHEET
DESIGNATION: 700 10
PID: EV0239
ELEVATION: 1250.56' NAVD88

PREPARED BY:
BONADIMAN
JOSEPH E. BONADIMAN & ASSOCIATES, INC.
ENGINEERS · L.S. · SURVEYING · PLANNING
TEL. (909) 885-3806
384 NORTH ARROWHEAD AVE.
SAN BERNARDINO, CA 92408
FAX (909) 381-1721
www.bonadiman.com
SCALE: NONE
DATE: 03-13-24

SEAL
REGISTERED PROFESSIONAL ENGINEER
JAMES T. STANFORD
No. C-70944
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

DATE	BY	MARK	APPR.	DATE
ENGINEER		REVISIONS		

DESIGNED BY: JTS DRAWN BY: JTS CHECKED BY: JTS

SAN BERNARDINO COUNTY
DEPARTMENT OF LAND USE SERVICES

OSVALDO ROQUE DATE
SUPERVISING ENGINEER, TRAFFIC DIVISION

JEREMY JOHNSON DATE
ENGINEERING MANAGER, TRAFFIC DIVISION

RECOMMENDED BY:

APPROVED BY:

MICHAEL FAM DATE
ENGINEERING MANAGER, LAND DEVELOPMENT DIVISION

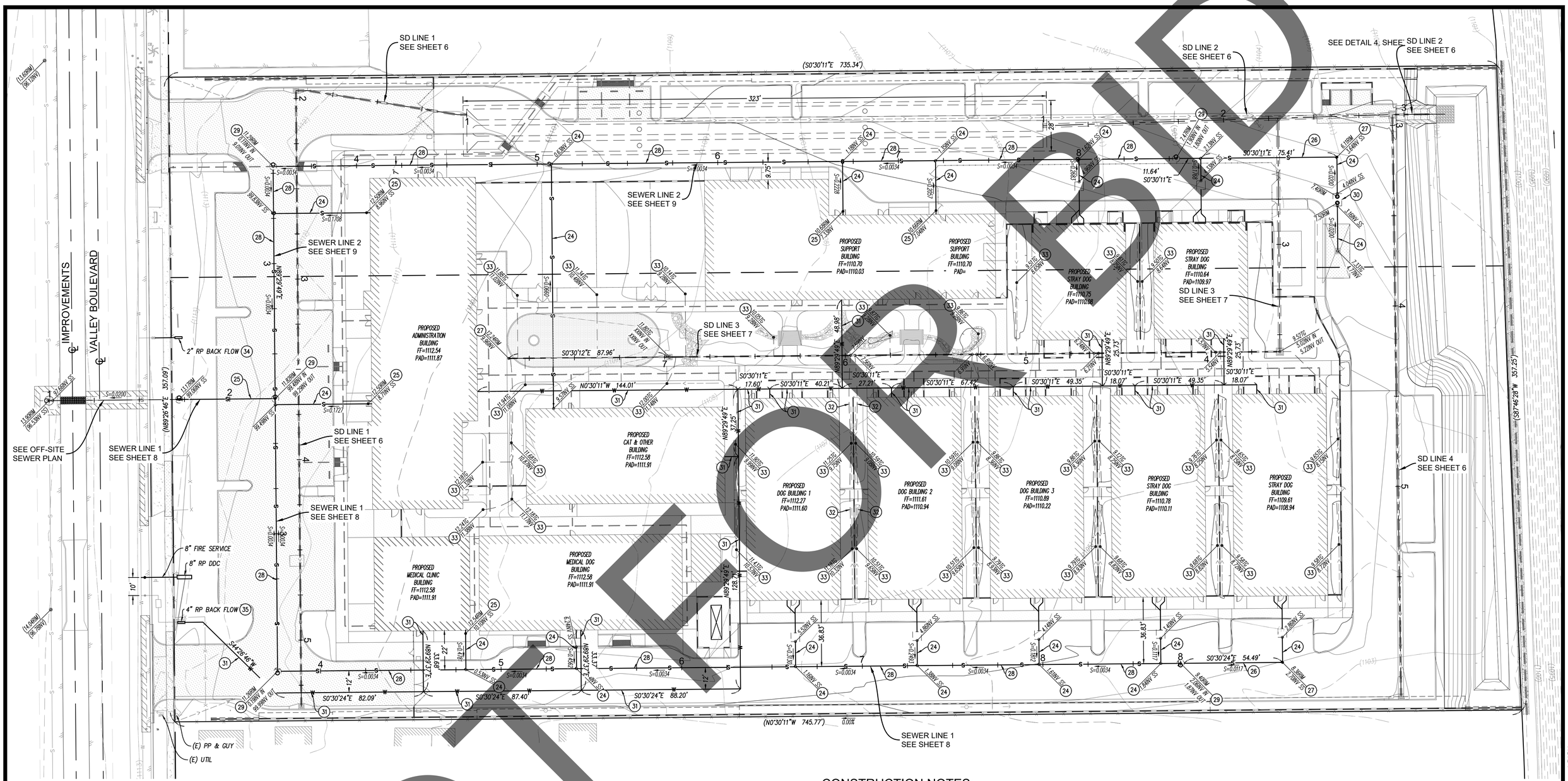
GRADING PLAN

GRADING PLAN
18313 VALLEY BLVD.
BLOOMINGTON,CA 92313

FILE NO.
GRAD 2024-00007

SHEET 4 OF 14

JOB #: 184546 DRAWING NAME: 225038 GP.dwg PLOT DATE: 03/14/2024 - 4:37PM



CONSTRUCTION NOTES:

㉔	INSTALL 4" SDR 35 PVC SEWER LINE PER PLAN, 1% MIN SLOPE.
㉕	INSTALL 4" SEWER CLEAN OUT.
㉖	INSTALL 6" SDR 35 PVC SEWER LINE PER PLAN, 1% MIN SLOPE.
㉗	INSTALL 6" CLEAN OUT.
㉘	INSTALL 8" SDR 35 PVC SEWER LINE PER PLAN, 0.33% MIN SLOPE.
㉙	INSTALL 48" PRECAST MANHOLE.
㉚	INSTALL 500 GAL OIL WATER SEPARATOR, OLD CASTLE 4X6-5000WS OR EQUAL, SHEET 11.
㉛	INSTALL 2" PVC WATER LINE PER DETAIL 5.
㉜	INSTALL 6" HDPE, TYPE C, STORM DRAIN PIPE.
㉝	INSTALL 12" SQ. CATCH BASIN, W/ ATRIUM GRATE AND CATCH BASIN FILTER PER DETAIL SHEET 11.
㉞	INSTALL 2" REDUCED PRESSURE BACKFLOW PREVENTER.
㉟	INSTALL 4" REDUCED PRESSURE BACKFLOW PREVENTER.

NOTE TO CONTRACTOR:

THE CONTRACTOR SHALL CONTACT JUSTIN BROKAW (GENERAL MANAGER) AT MARYGOLD MUTUAL WATER COMPANY, (909) 877-0516, FOR COORDINATION AND INSTALL OF THE FOLLOWING:

1) 8" FIRE SERVICE AND REDUCED PRESSURE DOUBLE DETECTOR CHECK SHOWN HERE ON.

2) 2" REDUCED PRESSURE BACKFLOW PREVENTER (CONSTRUCTION NOTE 34).

3) 4" REDUCED PRESSURE BACKFLOW PREVENTER (CONSTRUCTION NOTE 35).

THE CONTRACTOR SHALL FIELD MARK THE INSTALLATION LOCATION PRIOR TO THE START OF WORK.

25 0 25 50 75
SCALE: 1"=25'

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NATIONAL GEODETIC SURVEY DATA SHEET
DESIGNATION: 700 10
PID: EV1239
ELEVATION: 1250.56' NAVD88

PREPARED BY:
BONADIMAN
JOSEPH E. BONADIMAN & ASSOCIATES, INC.
ENGINEERS • G.I.S. • SURVEYING • PLANNING
TEL. (909) 885-3806
234 NORTH ARROWHEAD AVE.
SAN BERNARDINO, CA 92408
FAX (909) 381-1721
www.bonadiman.com

SCALE: NONE
DATE: 03-13-24

SEAL
JAMES T. STANTON
No. C-70944
Exp. 6-30-25

DATE	BY	MARK	REVISIONS	APPR.	DATE
ENGINEER					

DESIGNED BY: JTS DRAWN BY: JTS CHECKED BY: JTS

SAN BERNARDINO COUNTY
DEPARTMENT OF LAND USE SERVICES

OSVALDO ROQUE DATE
SUPERVISING ENGINEER, TRAFFIC DIVISION

JEREMY JOHNSON DATE
ENGINEERING MANAGER, TRAFFIC DIVISION

RECOMMENDED BY:

APPROVED BY:
MICHAEL FAM DATE
ENGINEERING MANAGER, LAND DEVELOPMENT DIVISION

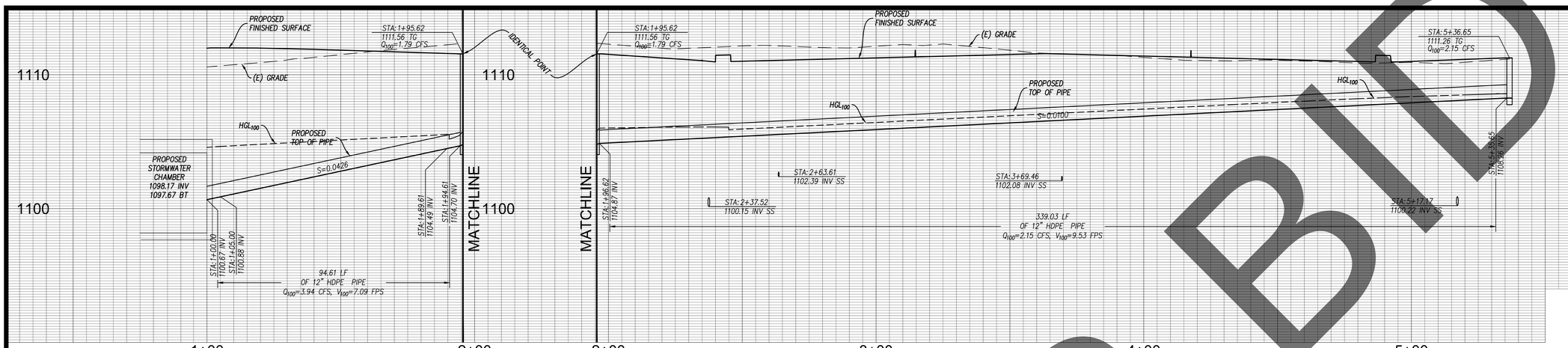
GRADING PLAN

COMPOSITE UTILITY PLAN
18313 VALLEY BLVD.
BLOOMINGTON,CA 92313

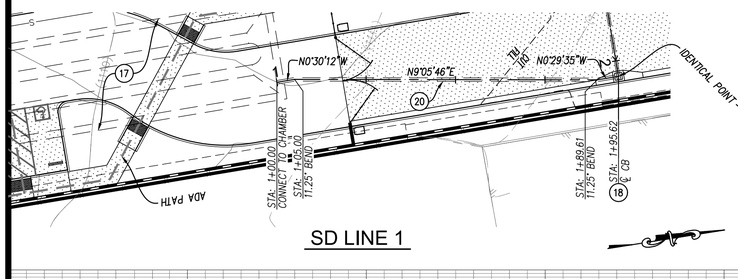
FILE NO.
GRAD 2024-00007

SHEET 5 OF 14

JOB #: 184546 DRAWING NAME: 225038 GP.dwg PLOT DATE: 03/14/2024 - 4:31PM



PROFILE SCALE
VERT: 1" = 4'
HORZ: 1" = 20'



CONSTRUCTION NOTES:

(17) CONSTRUCT UNDERGROUND STORAGE BASIN PER MANUFACTURES PLANS, SEE SHEET 12.

(18) INSTALL 24" SQ. PRECAST CATCH BASIN, JENSEN MODEL: DI2424 OR EQUAL, W/ TRAFFIC GRATE (H-20), W/ INSERT FILTER PER DETAIL & STORM DRAIN SYSTEM STENCILING PER CALTRANS DETAIL STD. D71, SEE SHEET 10.

(19) INSTALL 36" SQ. PRECAST CATCH BASIN, JENSEN MODEL: DI3636 OR EQUAL, W/ TRAFFIC GRATE (H-20), W/ INSERT FILTER PER DETAIL & STORM DRAIN SYSTEM STENCILING PER CALTRANS DETAIL STD. D71, SEE SHEET 10.

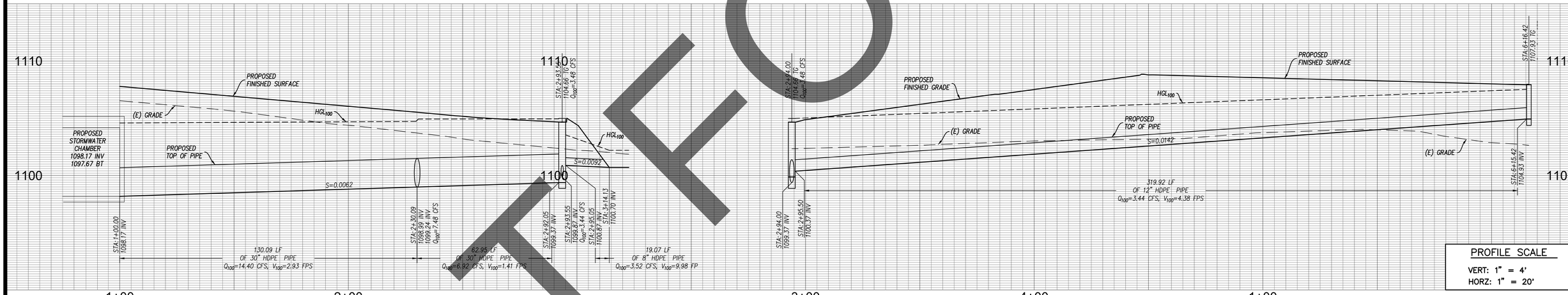
(20) INSTALL 8" HDPE, TYPE S, STORM DRAIN PIPE.

(21) INSTALL 12" HDPE, TYPE S, STORM DRAIN PIPE.

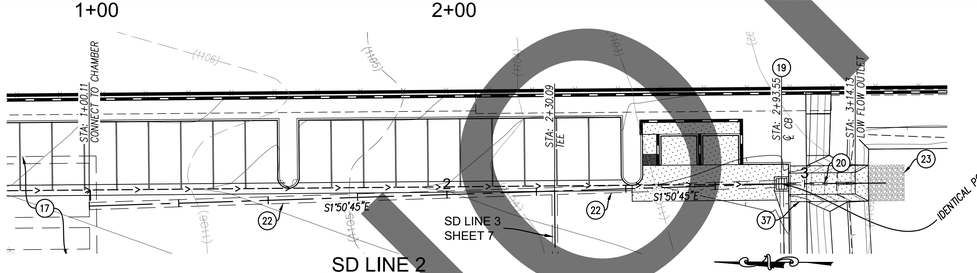
(22) INSTALL 30" HDPE, TYPE S, STORM DRAIN PIPE.

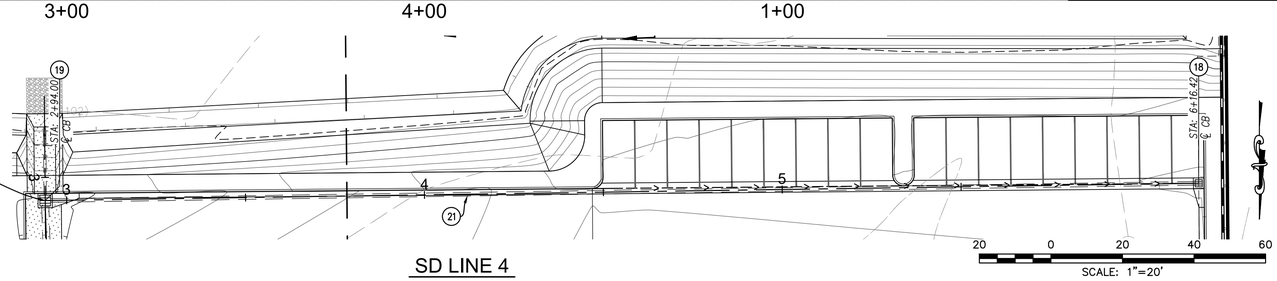
(23) INSTALL RIPRAP/COBBLE, D_{50}=6", PER DETAIL SHEET 10.

(37) CONSTRUCT 6' WIDE TRAPEZOIDAL DOWN DRAIN PER DETAIL SHEET 7.



PROFILE SCALE
VERT: 1" = 4'
HORZ: 1" = 20'





Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NATIONAL GEODETIC SURVEY DATA SHEET
DESIGNATION: 700 10
PID: EV1239
ELEVATION: 1250.56' NAVD88

PREPARED BY:
BONADIMAN
JOSEPH E. BONADIMAN & ASSOCIATES, INC.
ENGINEERS - W.R.'s - SURVEYING - PLANNING
TEL. (909) 885-3806
261 NORTH ARROWHEAD AVE.
SAN BERNARDINO, CA 92408
FAX (909) 381-1724
www.bonadiman.com
SCALE: NONE
DATE: 03-13-24

SEAL
REGISTERED PROFESSIONAL ENGINEER
JAMES T. STANFORD
No. C-70944
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE
ENGINEER					

DESIGNED BY: JTS DRAWN BY: JTS CHECKED BY: JTS

SAN BERNARDINO COUNTY
DEPARTMENT OF LAND USE SERVICES

OSVALDO ROQUE DATE
SUPERVISING ENGINEER, TRAFFIC DIVISION

JEREMY JOHNSON DATE
ENGINEERING MANAGER, TRAFFIC DIVISION

RECOMMENDED BY:

APPROVED BY:

MICHAEL FAM DATE
ENGINEERING MANAGER, LAND DEVELOPMENT DIVISION

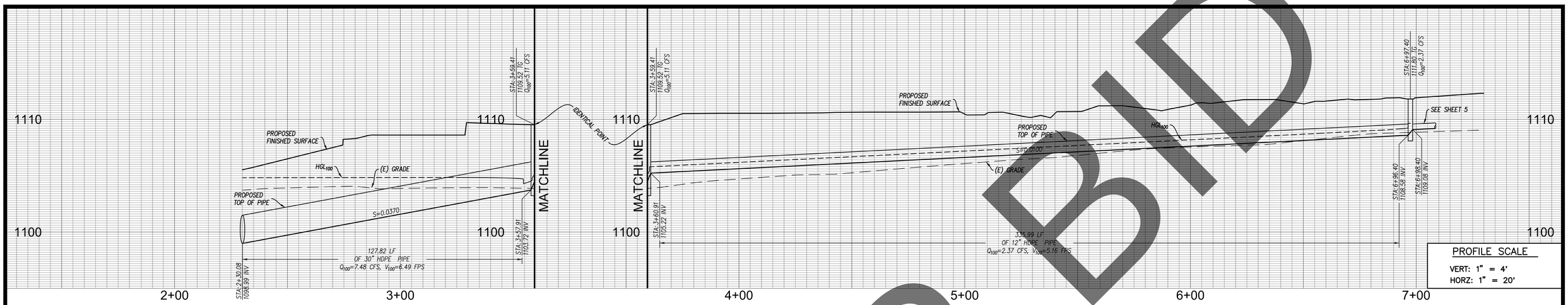
GRADING PLAN

SD PLAN & PROFILE
18313 VALLEY BLVD.
BLOOMINGTON,CA 92313

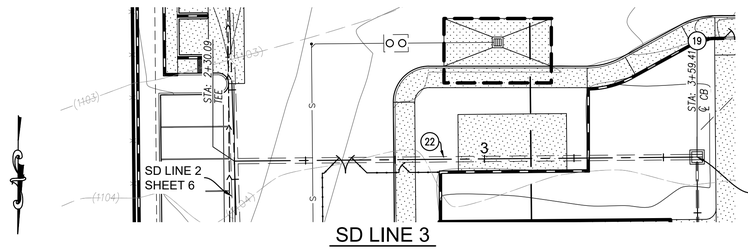
FILE NO.
GRAD 2024-00007

SHEET 6 OF 14

JOB #: 184546 DRAWING NAME: 225038 GP.dwg PLOT DATE: 03/14/2024 - 4:31PM

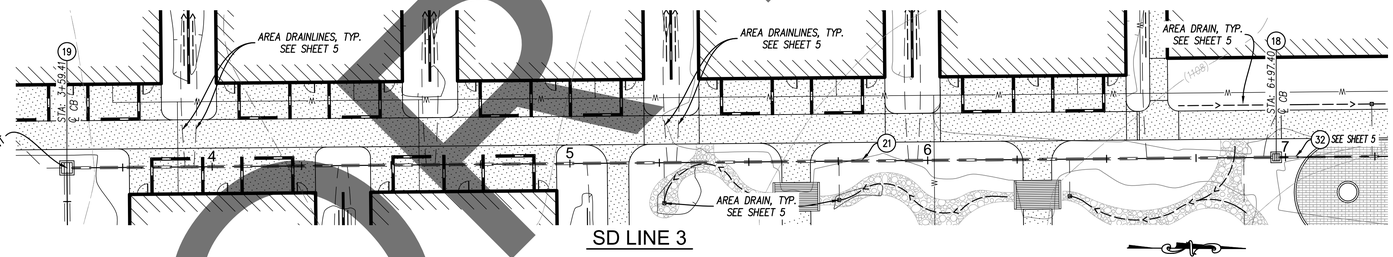


PROFILE SCALE
VERT: 1" = 4'
HORZ: 1" = 20'

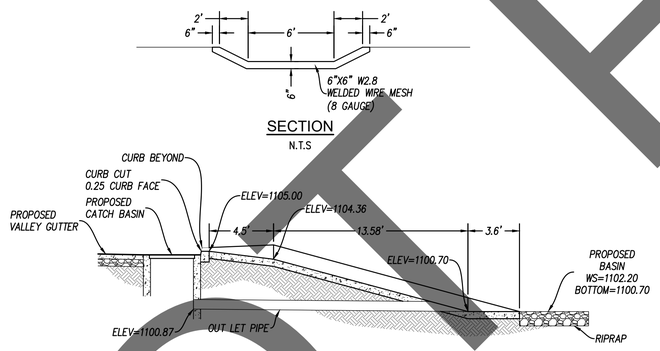


SD LINE 3

IDENTICAL POINT



SD LINE 3



SECTION
N.T.S

37 TRAPEZOIDAL DOWN DRAIN DETAIL
N.T.S

CONSTRUCTION NOTES:

(18) INSTALL 24" SQ. PRECAST CATCH BASIN, JENSEN MODEL: DI2424 OR EQUAL, W/ TRAFFIC GRATE (H-20), W/ INSERT FILTER PER DETAIL & STORM DRAIN SYSTEM STENCILING PER CALTRANS DETAIL STD. D71, SEE SHEET 10.

(19) INSTALL 36" SQ. PRECAST CATCH BASIN, JENSEN MODEL: DI3636 OR EQUAL, W/ TRAFFIC GRATE (H-20), W/ INSERT FILTER PER DETAIL & STORM DRAIN SYSTEM STENCILING PER CALTRANS DETAIL STD. D71, SEE SHEET 10.

(21) INSTALL 12" HDPE, TYPE S, STORM DRAIN PIPE.

(22) INSTALL 30" HDPE, TYPE S, STORM DRAIN PIPE.

(37) CONSTRUCT 6' WIDE TRAPEZOIDAL DOWN DRAIN PER DETAIL SHEET 7.

20 0 20 40 60
SCALE: 1"=20'

Underground Service Alert
DIG ALERT BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NATIONAL GEODETIC SURVEY DATA SHEET
DESIGNATION: 700 10
PID: EV1239
ELEVATION: 1250.56' NAVD88

PREPARED BY:
BONADIMAN
JOSEPH E. BONADIMAN & ASSOCIATES, INC.
ENGINEERING - W.I.R. - SURVEYING - PLANNING
TEL. (909) 885-3806
294 NORTH ARROWHEAD AVE.
SAN BERNARDINO, CA 92408
FAX (909) 381-1721
www.bonadiman.com
SCALE: NONE
DATE: 03-13-24

SEAL
REGISTERED PROFESSIONAL ENGINEER
JAMES T. STANTON
No. C-70944
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE

ENGINEER
DESIGNED BY: JTS DRAWN BY: JTS CHECKED BY: JTS

SAN BERNARDINO COUNTY
DEPARTMENT OF LAND USE SERVICES

OSVALDO ROQUE DATE
SUPERVISING ENGINEER, TRAFFIC DIVISION

JEREMY JOHNSON DATE
ENGINEERING MANAGER, TRAFFIC DIVISION

RECOMMENDED BY:

APPROVED BY:

MICHAEL FAM DATE
ENGINEERING MANAGER, LAND DEVELOPMENT DIVISION

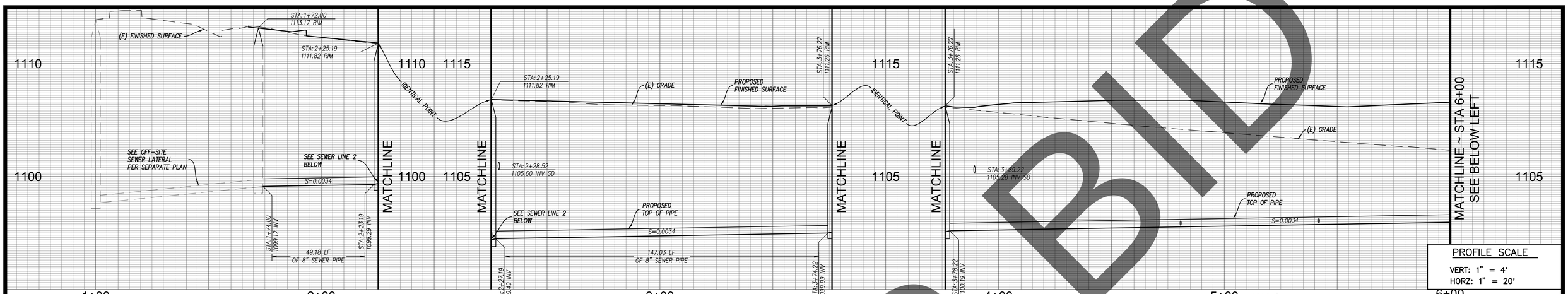
GRADING PLAN

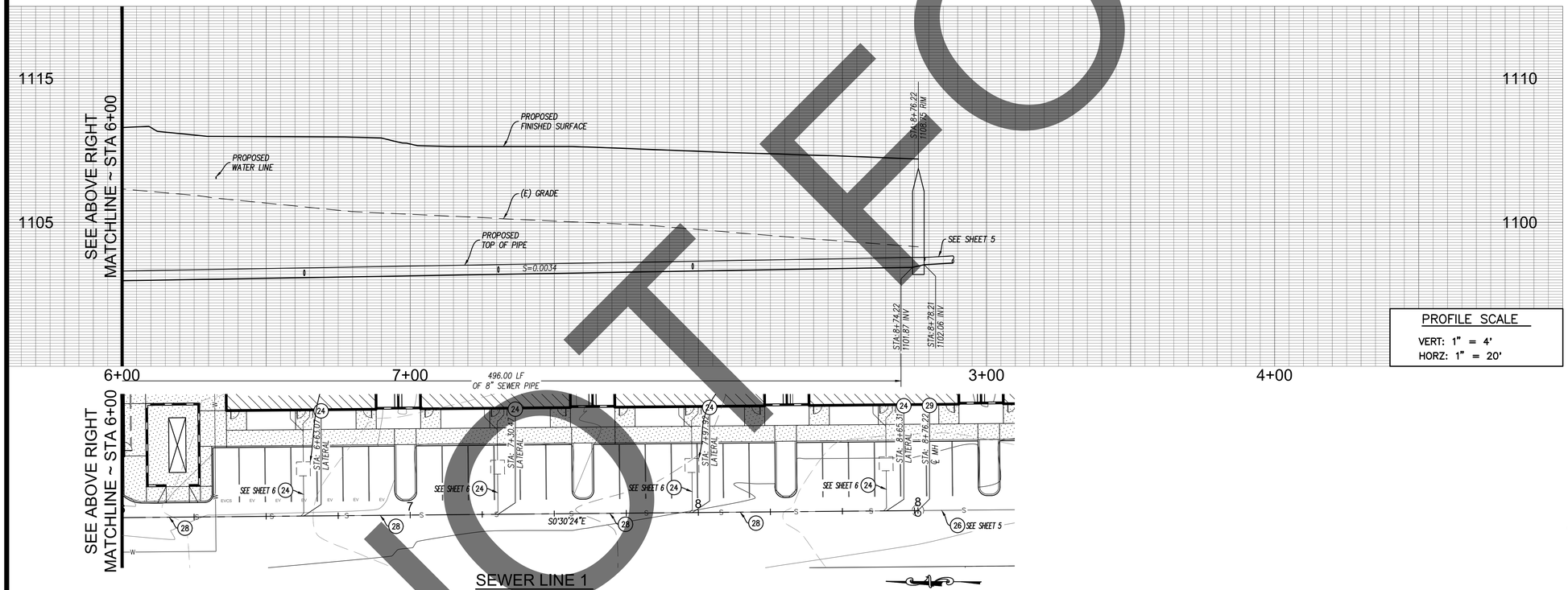
SD PLAN & PROFILE
18313 VALLEY BLVD.
BLOOMINGTON,CA 92313

FILE NO.
GRAD 2024-00007

SHEET 7 OF 14

JOB #: 184546 DRAWING NAME: 225038 GP.dwg PLOT DATE: 03/14/2024 - 4:31PM





CONSTRUCTION NOTES:

(24) INSTALL 4" SDR 35 PVC SEWER LINE PER PLAN, 1% MIN SLOPE.
(26) INSTALL 6" SDR 35 PVC SEWER LINE PER PLAN, 1% MIN SLOPE.
(28) INSTALL 8" SDR 35 PVC SEWER LINE PER PLAN, 0.33% MIN SLOPE.
(29) INSTALL 48" PRECAST MANHOLE.

PROFILE SCALE
VERT: 1" = 4'
HORZ: 1" = 20'

20 0 20 40 60
SCALE: 1"=20'

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NATIONAL GEODETIC SURVEY DATA SHEET
DESIGNATION: 700 10
PID: EV1239
ELEVATION: 1250.56' NAVD88

PREPARED BY:
BONADIMAN
JOSEPH E. BONADIMAN & ASSOCIATES, INC.
ENGINEERS - W.R.'s - SURVEYING - PLANNING
TEL. (909) 885-3806
FAX (909) 381-1721
SCALE: NONE
DATE: 03-13-24

SEAL
REGISTERED PROFESSIONAL ENGINEER
JAMES T. STANFORD
No. C-70944
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

DATE	BY	MARK	APPR.	DATE
ENGINEER		REVISIONS		

DESIGNED BY: JTS DRAWN BY: JTS CHECKED BY: JTS

SAN BERNARDINO COUNTY
DEPARTMENT OF LAND USE SERVICES

OSVALDO ROQUE DATE
SUPERVISING ENGINEER, TRAFFIC DIVISION

JEREMY JOHNSON DATE
ENGINEERING MANAGER, TRAFFIC DIVISION

RECOMMENDED BY:

APPROVED BY:

MICHAEL FAM DATE
ENGINEERING MANAGER, LAND DEVELOPMENT DIVISION

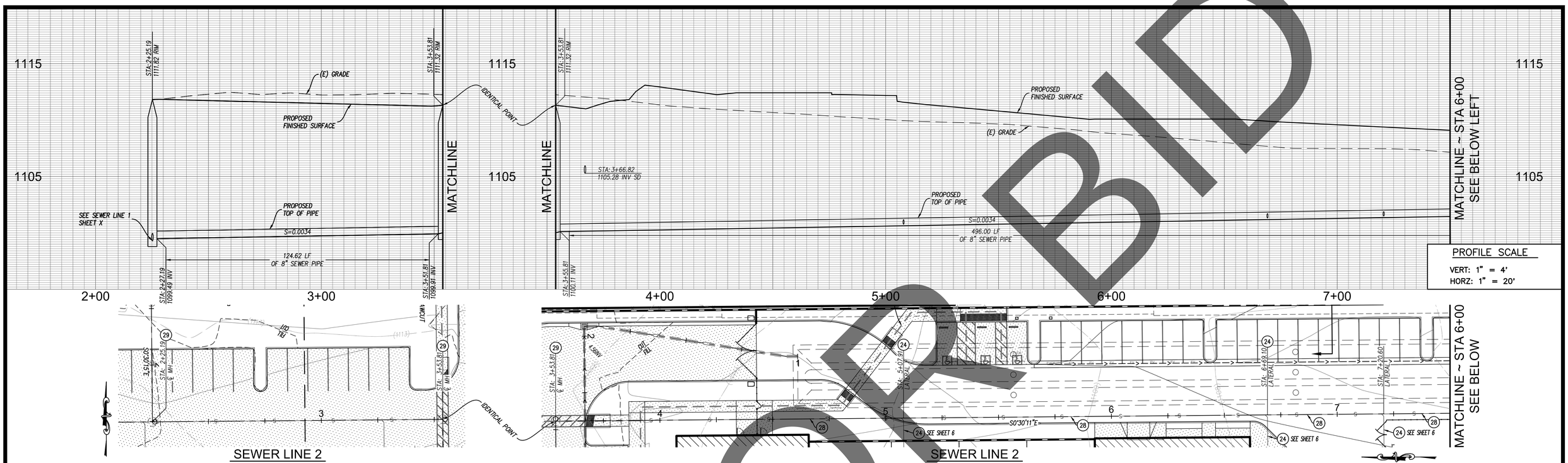
GRADING PLAN

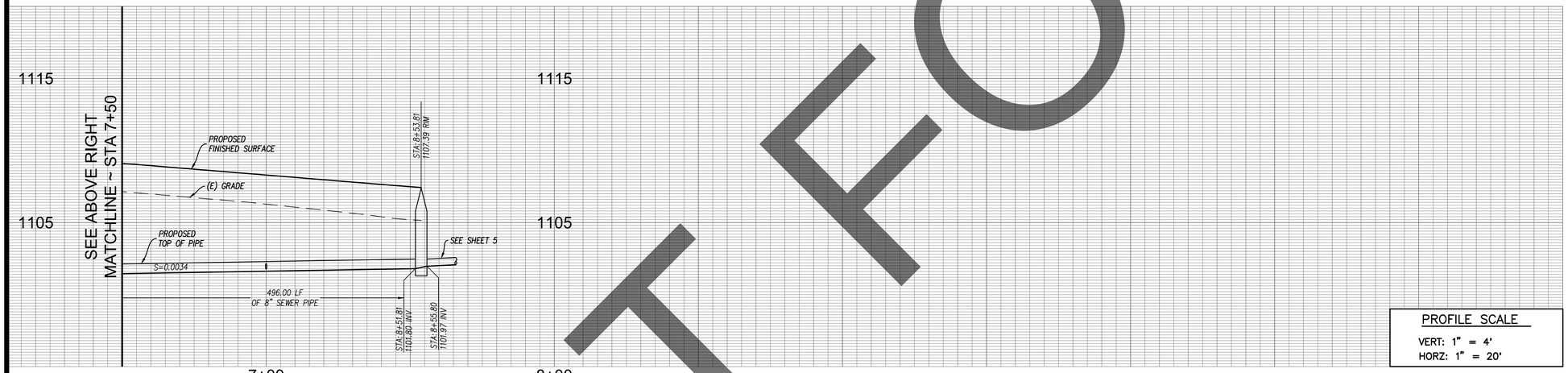
SEWER PLAN & PROFILE
18313 VALLEY BLVD.
BLOOMINGTON,CA 92313

FILE NO.
GRAD 2024-00007

SHEET 8 OF 14

JOB #: 184546 DRAWING NAME: 225038 GP.dwg PLOT DATE: 03/14/2024 - 4:31PM





CONSTRUCTION NOTES:

(24) INSTALL 4" SDR 35 PVC SEWER LINE PER PLAN, 1% MIN SLOPE.
(26) INSTALL 6" SDR 35 PVC SEWER LINE PER PLAN, 1% MIN SLOPE.
(28) INSTALL 8" SDR 35 PVC SEWER LINE PER PLAN, 0.33% MIN SLOPE.
(29) INSTALL 48" PRECAST MANHOLE.

20 0 20 40 60
SCALE: 1"=20'

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NATIONAL GEODETIC SURVEY DATA SHEET
DESIGNATION: 700 10
PID: EV1239
ELEVATION: 1250.56' NAVD88

PREPARED BY:
BONADIMAN
JOSEPH E. BONADIMAN & ASSOCIATES, INC.
ENGINEERS - W.R. - SURVEYING - PLANNING
TEL. (909) 885-3806
FAX (909) 381-1751
SCALE: NONE
DATE: 03-13-24

SEAL
REGISTERED PROFESSIONAL ENGINEER
JAMES T. STANFORD
No. C-70944
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

DATE	BY	MARK	APPR.	DATE
ENGINEER		REVISIONS		

DESIGNED BY: JTS DRAWN BY: JTS CHECKED BY: JTS

SAN BERNARDINO COUNTY
DEPARTMENT OF LAND USE SERVICES

OSVALDO ROQUE DATE
SUPERVISING ENGINEER, TRAFFIC DIVISION

JEREMY JOHNSON DATE
ENGINEERING MANAGER, TRAFFIC DIVISION

RECOMMENDED BY:

APPROVED BY:

MICHAEL FAM DATE
ENGINEERING MANAGER, LAND DEVELOPMENT DIVISION

GRADING PLAN

SD PLAN & PROFILE
18313 VALLEY BLVD.
BLOOMINGTON,CA 92313

FILE NO.
GRAD 2024-00007

SHEET 9 OF 14

JOB #: 184546 DRAWING NAME: 225038 GP.dwg PLOT DATE: 03/14/2024 - 4:31PM