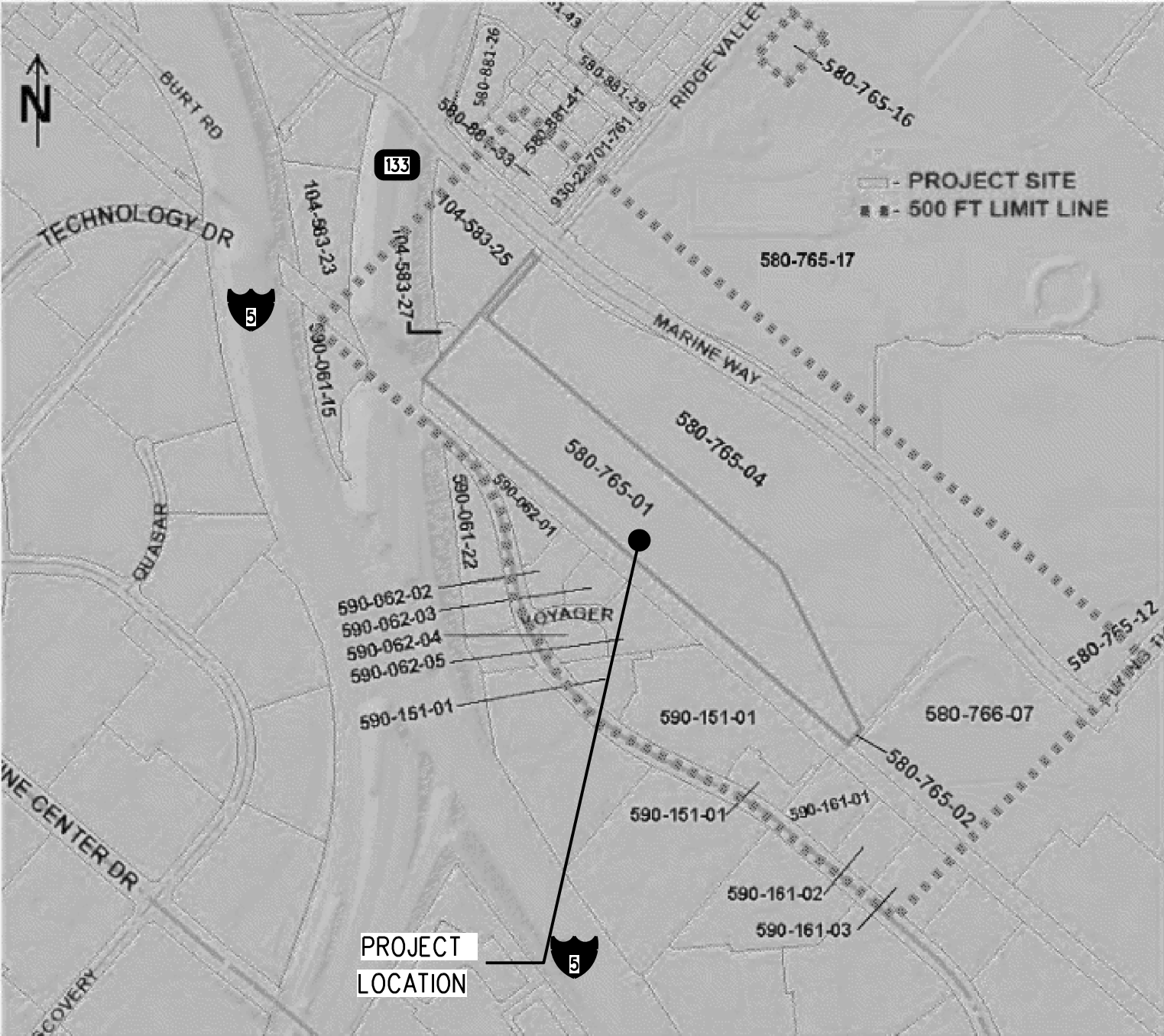


SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT

LEGAL DESCRIPTION			DRAWING INDEX			DESCRIPTION OF WORK		
<p>THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF IRVINE, IN THE COUNTY OF ORANGE, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:</p> <p>THAT CERTAIN PORTION OF LAND, IN THE CITY OF IRVINE, COUNTY OF ORANGE, STATE OF CALIFORNIA, BEING PORTIONS OF LOT 285 AND LOT 286 OF BLOCK 140, AND LOT 284 OF BLOCK 155 OF IRVINE'S SUBDIVISION, RECORDED IN BOOK 1, PAGE 88 OF MISCELLANEOUS RECORD MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING WITHIN PARCEL "3A-2" OF "QUITCLAIM DEED AND ENVIRONMENTAL RESTRICTION" RECORDED JULY 12, 2005 AS INSTRUMENT NO. 2005000536292 OF OFFICIAL RECORDS OF SAID COUNTY AND AS SHOWN ON RECORD OF SURVEY 2007-1206, FILED IN BOOK 225, PAGES 29 THROUGH 42, INCLUSIVE OF RECORDS OF SURVEYS IN THE OFFICE OF SAID COUNTY RECORDER, SAID RECORD OF SURVEY BEING THE BASIS OF BEARINGS FOR THIS DESCRIPTION, MORE PARTICULARLY DESCRIBED AS FOLLOWS:</p> <p>COMMENCING AT THE MOST EASTERLY CORNER OF THAT CERTAIN PARCEL "HOME (TRANSFER, BLDG. 319)" PER DOCUMENT RECORDED JULY 12, 2005, AS INSTRUMENT NO. 2005000536293, OFFICIAL RECORDS OF SAID COUNTY, SAID POINT OF COMMENCEMENT BEING ON THE NORTHEASTERLY RIGHT OF WAY LINE OF THE A.T. & S.F. RAILROAD (100 FEET WIDE AS SHOWN ON SAID RECORD OF SURVEY); THENCE ALONG SAID NORTHEASTERLY RIGHT OF WAY LINE OF THE A.T. & S.F. RAILROAD, NORTH 49 DEGREES 20 MINUTES 21 SECONDS WEST, 2669.08 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH 40 DEGREES 36 MINUTES 59 SECONDS EAST, 92.01 FEET; THENCE NORTH 26 DEGREES 59 MINUTES 05 SECONDS WEST, 849.25 FEET TO A LINE PARALLEL WITH AND DISTANT 415.01 FEET NORTHEASTERLY, (AS MEASURED AT RIGHT ANGLES), FROM SAID NORTHEASTERLY RIGHT OF WAY LINE; THENCE ALONG SAID PARALLEL LINE NORTH 49 DEGREES 20 MINUTES 22 SECONDS WEST, 1881.50 FEET, HEREINAFTER REFERRED TO AS COURSE "A", TO THE NORTHWESTERLY LINE OF SAID LOT 286; THENCE SOUTH 40 DEGREES 39 MINUTES 34 SECONDS WEST, 415.01 FEET TO SAID NORTHEASTERLY RIGHT OF WAY LINE; THENCE ALONG SAID NORTHEASTERLY RIGHT OF WAY LINE SOUTH 49 DEGREES 20 MINUTES 21 SECONDS EAST, 2669.99 FEET TO THE TRUE POINT OF BEGINNING.</p> <p>EXCEPT THEREFROM ALL THAT LAND LYING NORTHERLY OF THE FOLLOWING DESCRIBED LINE:</p> <p>BEGINNING AT THE INTERSECTION OF SAID NORTHWESTERLY LINE OF SAID LOT 286, SAID BEING SHOWN AS "N40° 39' 34" E 5230.30" ON SAID RECORD F SURVEY, WITH A LINE PARALLEL WITH AND DISTANT 14.50 FEET FROM, AS MEASURED AT RIGHT ANGLES, THE SOUTHWESTERLY LINE OF PARCEL 2 "QUITCLAIM DEED AND ENVIRONMENTAL RESTRICTION PURSUANT TO CIVIL CODE SECTION 1471", RECORDED JUNE 16, 2011 AS INSTRUMENT NO. 2011000293986; THENCE ALONG SAID PARALLEL LINE SOUTH 48 DEGREES 56 MINUTES 53 SECONDS EAST, 220.69 FEET TO THE INTERSECTION OF SAID PARALLEL LINE WITH A LINE PARALLEL WITH AND DISTANT 24.30 FEET FROM, AS MEASURED AT RIGHT ANGLES, THE SOUTHEASTERLY LINE OF SAID PARCEL 2; THENCE ALONG LAST SAID PARALLEL LINE NORTH 40 DEGREES 59 MINUTES 35 SECONDS EAST, 226.43 FEET TO THE POINT OF TERMINUS, BEING THE INTERSECTION OF LAST SAID PARALLEL LINE WITH HEREIN ABOVE DESCRIBED COURSE "A".</p> <p>ALSO, EXCEPT THEREFROM ALL THAT LAND LYING WITHIN A 25 FOOT STRIP OF LAND, THE SOUTHERLY LINE DESCRIBED AS FOLLOWS:</p> <p>COMMENCING AT THE WESTERLY CORNER OF THE REAL PROPERTY DESCRIBED IN THE FINAL JUDGMENT AND DECREE OF CONDEMNATION RECORDED JULY 12, 1944 IN BOOK 1264, PAGE 154 OF OFFICIAL RECORDS OF SAID COUNTY AS SHOWN ON SAID RECORD OF SURVEY NO. 2007-1206; THENCE ALONG THE SOUTHWESTERLY LINE OF SAID REAL PROPERTY AS SHOWN ON SAID RECORD OF SURVEY, SOUTH 49 DEGREES 20 MINUTES 21 SECONDS EAST 2644.25 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH 40 DEGREES 25 MINUTES 11 SECONDS EAST 858.55 FEET.</p> <p>SAID STRIP SHALL BE LENGTHENED OR SHORTENED TO TERMINATE SOUTHWESTERLY IN SAID SOUTHWESTERLY LINE OF BOOK 1264, PAGE 154 OF SAID OFFICIAL RECORDS.</p> <p>APN: 580-765-01</p>			<p>GENERAL</p> <p>01 CUP-001 PROJECT INFO, DRAWING INDEX & VICINITY PLAN</p> <p>02 CUP-002 DRAWING ABBREVIATIONS & DRAWING SYMBOL LEGEND</p> <p>EXISTING AND PROPOSED SITE PLANS</p> <p>03 CUP-003 PROJECT SITE KEY PLAN</p> <p>04 CUP-004 EXISTING SITE PLAN - OVERALL VIEW</p> <p>05 CUP-005 EXISTING SITE PLAN - SHEET 1 OF 4</p> <p>06 CUP-006 EXISTING SITE PLAN - SHEET 2 OF 4</p> <p>07 CUP-007 EXISTING SITE PLAN - SHEET 3 OF 4</p> <p>08 CUP-008 EXISTING SITE PLAN - SHEET 4 OF 4</p> <p>09 CUP-009 PROPOSED SITE PLAN - OVERALL VIEW</p> <p>10 CUP-010 PROPOSED SITE PLAN - SHEET 1 OF 4</p> <p>11 CUP-011 PROPOSED SITE PLAN - SHEET 2 OF 4</p> <p>12 CUP-012 PROPOSED SITE PLAN - SHEET 3 OF 4</p> <p>13 CUP-013 PROPOSED SITE PLAN - SHEET 4 OF 4</p> <p>14 CUP-014 GENERAL VEHICLE PROFILES AND TURNING</p> <p>15 CUP-015 GENERAL VEHICLE PROFILES AND TURNING</p> <p>16 CUP-016 LINE OF SIGHT SHEET</p> <p>17 CUP-017 PARKING SUMMARY TABLE</p> <p>18 CUP-018 SITE GRADING PLAN - SHEET 1 OF 3</p> <p>19 CUP-019 SITE GRADING PLAN - SHEET 2 OF 3</p> <p>20 CUP-020 SITE GRADING PLAN - SHEET 3 OF 3</p> <p>21 CUP-021 TRACK CROSS SECTIONS</p> <p>22 CUP-022 EROSION CONTROL PLAN - SHEET 1 OF 3</p> <p>23 CUP-023 EROSION CONTROL PLAN - SHEET 2 OF 3</p> <p>24 CUP-024 EROSION CONTROL PLAN - SHEET 3 OF 3</p> <p>25 CUP-025 LANDSCAPE AND IRRIGATION - KEY MAP</p> <p>26 CUP-026 LANDSCAPE PLANS 1</p> <p>27 CUP-027 LANDSCAPE PLANS 2</p> <p>28 CUP-028 LANDSCAPE NOTES AND LEGEND</p> <p>29 CUP-029 LANDSCAPE DETAILS</p> <p>30 CUP-030 IRRIGATION PLANS 1</p> <p>31 CUP-031 IRRIGATION PLANS 2</p> <p>32 CUP-032 IRRIGATION NOTES AND LEGEND</p> <p>33 CUP-033 IRRIGATION DETAILS 1</p> <p>34 CUP-034 IRRIGATION DETAILS 2</p> <p>35 CUP-035 IRRIGATION DETAILS 3</p> <p>BUILDING PLANS</p> <p>36 CUP-036 MAINTENANCE BUILDING - OVERALL FLOOR PLAN</p> <p>37 CUP-037A MAINTENANCE BUILDING - PART PLAN I</p> <p>38 CUP-037B MAINTENANCE BUILDING - PART PLAN II</p> <p>39 CUP-038 MAINTENANCE BUILDING ELEVATIONS</p> <p>40 CUP-039 TRANSPORTATION BUILDING OVERALL FLOOR PLAN</p> <p>41 CUP-040 TRANSPORTATION BUILDING ELEVATIONS</p> <p>42 CUP-041 UTILITY BUILDING - OVERALL FLOOR PLAN</p> <p>43 CUP-042 UTILITY BUILDING ELEVATIONS</p> <p>44 CUP-043 TRAIN WASH BUILDING - OVERALL FLOOR PLAN</p> <p>45 CUP-044 TRAIN WASH BUILDING ELEVATIONS</p> <p>46 CUP-045 PUMP HOUSE - OVERALL FLOOR PLAN</p> <p>47 CUP-046 PUMP HOUSE BUILDING ELEVATIONS</p> <p>DRAWINGS ADDED IN REVISION 1:</p> <p>48 CUP-047 GENERAL AUTOTURN LAYOUT PLANS</p> <p>MARINE WAY AND RIDGE VALLEY</p> <p>49 CUP-048 GENERAL AUTOTURN LAYOUT PLANS GARBAGE TRUCK</p> <p>50 CUP-049 FIRE ACCESS PLAN - SHEET 1 OF 2</p> <p>51 CUP-050 FIRE ACCESS PLAN - SHEET 2 OF 2</p> <p>52 CUP-051 COMPOSITE PLANS OF UTILITY REARRANGEMENT - SHEET 1 OF 4</p> <p>53 CUP-052 COMPOSITE PLANS OF UTILITY REARRANGEMENT - SHEET 1 OF 4</p> <p>54 CUP-053 COMPOSITE PLANS OF UTILITY REARRANGEMENT - SHEET 1 OF 4</p> <p>55 CUP-054 COMPOSITE PLANS OF UTILITY REARRANGEMENT - SHEET 1 OF 4</p> <p>DRAWINGS ADDED IN REVISION 3:</p> <p>56 CUP-055 MAINTENANCE BUILDING EQUIPMENT SCHEDULE</p> <p>57 CUP-056 MAINTENANCE BUILDING PLATFORM LEVEL PLAN</p> <p>58 CUP-057 MAINTENANCE BUILDING SECTIONS AND DETAILS</p> <p>59 CUP-058 S & I TRACK AND FUELING STATION SCHEDULE & NOTES</p> <p>60 CUP-059 S & I FUELING STATION AND TRACKS OVERALL FLOOR PLAN</p> <p>61 CUP-060 S & I FUELING STATION AND TRACKS PARTIAL PLAN - PLATFORM (NORTH)</p> <p>62 CUP-061 S & I FUELING STATION SECTIONS AND DETAILS</p> <p>63 CUP-062 TRAIN WASH BUILDING EQUIPMENT SCHEDULE & GENERAL NOTES</p> <p>64 CUP-063 TRAIN WASH BUILDING OVERALL EQUIPMENT FLOOR PLAN</p>			<p>THIS PROJECT CONSISTS OF SITE GRADING AND CONSTRUCTION OF RAILROAD TRACKS AND FIVE BUILDINGS, INCLUDING ACCESS ROADS, UTILITIES, EROSION CONTROL, LANDSCAPING AND IRRIGATION.</p> <p>VICINITY MAP</p> 		
						PROJECT DATA		
						ASSESSOR'S PARCEL NO.: 580-765-01 PARKING: REFER TO CUP-017		
						TRACT NO.: IRVINE SUBDIVISION		
						LOT NO.: PORTIONS OF LOT 285 AND 286 OF BLOCK 140, AND LOT 284 OF BLOCK 155		
						LOT SIZE: 21.30 ACRES, MORE OR LESS		
						PLANNING AREA: 51		
						ZONING DESIGNATION: 6.1 (INSTITUTIONAL)		
						GENERAL PLAN DESIGNATION: ORANGE COUNTY GREAT PARK		
						EXISTING BUILDING: NONE		
						TYPE OF CONSTRUCTION: N/A		
						NUMBER OF STORIES: REFER TO CUP-017		
						TYPE OF OCCUPANCY: REFER TO CUP-036, -039, -041, -043, & -045		
						AREA OF WORK: REFER TO CUP-017		

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OWNER ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET, P.O. BOX 14184 ORANGE, CA 92863-1584 (714)560-5743 ATTN: LORA CROSS lcross@octa.net

ENGINEER GANNETT FLEMING, INC. 601 S. FIGUEROA, SUITE 3800 LOS ANGELES, CA 90017 (213)407-5928 ATTN: MATTHEW FREEMAN mfreeman@gfnet.com

34/11/22 4/11/22 2 01/10/22 1 10/13/21 0 6/30/21

CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1 CONDITIONAL USE PERMIT SUBMITTAL

REV. DATE BY SUB APP.

DESIGNED BY M BIGGS DRAWN BY M BIGGS CHECKED BY J NEFF APPROVED BY M FREEMAN DATE 04/11/2022

NOT FOR CONSTRUCTION

 METROLINK®

 SUBMITTED: PROJECT MANAGER APPROVED:

METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT TITLE SHEET PROJECT INFO, DRAWING INDEX & VICINITY PLAN

CASE NO. 00846471-PCPU CONTRACT NO. C91143 DRAWING NO. CUP-001 REVISION 3 SHEET NO. 1 SCALE AS SHOWN

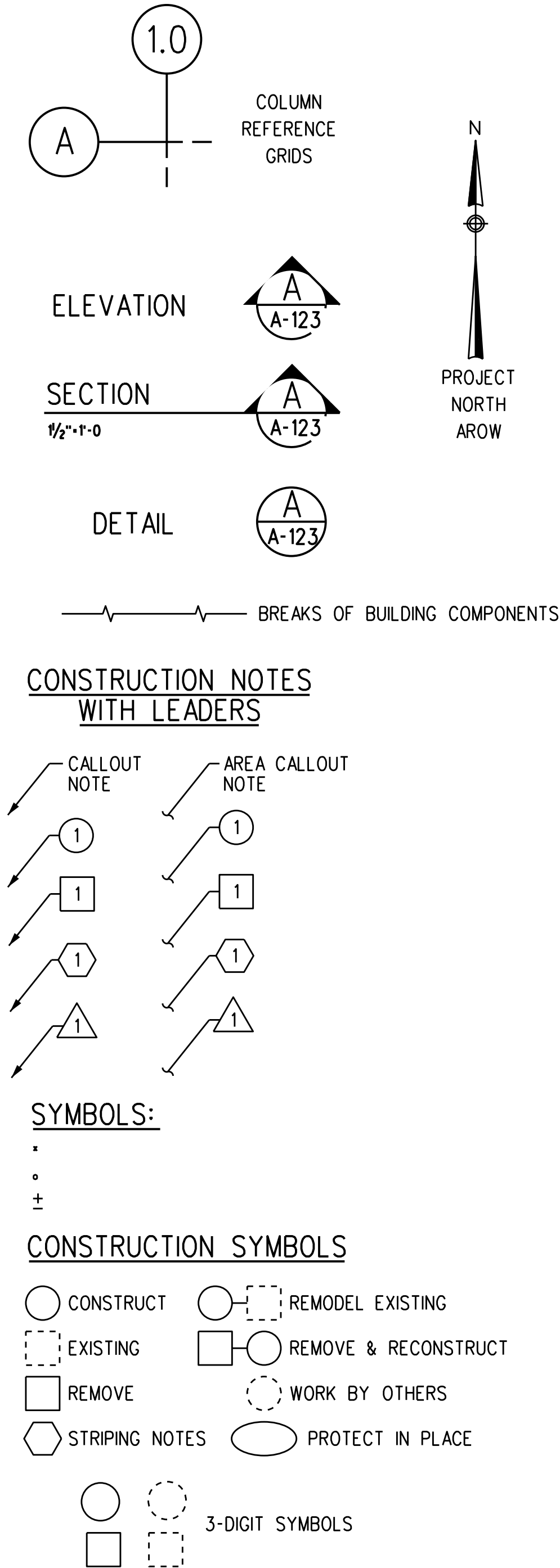
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ABBREVIATIONS					
AC	ASPHALT CONCRETE	GALV	GALVANIZED	QTY	QUANTITY
AHD	AHEAD	GP	GAGE PLATE		
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	GR	GUARD RAIL PLATE	R	RADIUS
APP	APPROVED	GRS	GALVANIZED RIGID STEEL	r	VERTICAL CURVE RATE OF CHANGE
APPROX	APPROXIMATE			RBM	RAILBOUND MANGANESE
A/R	AS REQUIRED	HD	HEAD	RCP	REINFORCED CONCRETE PIPE
AREMA	AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION	HDPE	HIGH-DENSITY POLYETHYLENE	RCPA	REINFORCED CONCRETE PIPE ARCH
ARS	AUTOMATIC ROUTE SELECTOR	HL	HEEL LENGTH	RD	ROAD
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	HP	HEEL PLATE	REF	REFERENCE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HRZ	HORIZONTAL	REINF	REINFORCING
		HS	HIGH STRENGTH	REQ'D	REQUIRED
AVE	AVENUE	ID	INSIDE DIAMETER	RES	RESTRAINING WALL
AWG	AMERICAN WIRE GAUGE	IJ	INSULATED JOINT	REV	REVISION
		IN	INCH OR INCHES	RH	RIGHT HAND
BC	BARE COPPER			RR	RAILROAD
BD	BLOWDOWN	JT	JOINT	RT	RIGHT
BEG	BEGIN			ROW, R/W	RIGHT OF WAY
BK	BACK	LA	LOS ANGELES		
B/L	BASELINE	LACFCD	LOS ANGELES COUNTY FLOOD CONTROL DISTRICT	S&T	SPIKE AND TIE
BLDG	BUILDING	LACMTA	LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY	S&W	SPIKE AND WASHER
BLS	BLUE LIGHT STATION			SA	SERVICE AISLE
BLVD	BOULEVARD	LAT	LATERAL	SB	SOUTHBOUND
BNSF	BURLINGTON NORTHERN AND SANTA FE RAILWAY	LB	POUND	SD	STORM DRAIN
		LF	LINEAR FOOT/FEET	SDCB	STORM DRAIN CATCH BASIN
*	CENTERLINE	LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	SGL	SINGLE
C TO C	CENTER TO CENTER	LG	LONG	SHT	SHEET
CANT	CANTILEVER	LH	LEFT HAND	SIG	SIGNALS (TRAIN CONTROL)
CCTV	CLOSE CIRCUIT TELEVISION	LLT	LAST LONG TIE	SP	SPACE, SPACING, SPECIAL PLATE
CLR	CLEAR, CLEARANCE	LRV	LIGHT RAIL VEHICLE	SS	STANDARD STRENGTH, SANITARY SEWER
CONC	CONCRETE	LT	LEFT	ST	STREET
COND	CONDUIT	LTP	LAMINATED THERMOPLASTIC	STA	STATION
CONN	CONNECTION			STD	STANDARD
CONST	CONSTRUCTION	MAX	MAXIMUM	SQ	SQUARE
CONT	CONTINUOUS	MIN	MINIMUM	SUB	SUBMITTED
CONT'D	CONTINUED	MH	MANHOLE	SW	SWITCH
CPUC	CALIFORNIA PUBLIC UTILITIES COMMISSION	ML	MAINLINE		
CW	CARWASH	MOD	MODIFIED	T&B	TOP AND BOTTOM
CWR	CONTINUOUS WELDED RAIL	MOW	MAINTENANCE-OF-WAY	TC	TRACK CENTERS, TOP OF CURB, TRAIN CONTROL
C/S	COMMUNICATIONS AND SIGNALING	MP	MILE POST	TC&C	TRAIN CONTROL COMMUNICATION
		MPH	MILES PER HOUR	TEMP	TEMPORARY
		MSL	MEAN SEA LEVEL	THEO	THEORETICAL
		MTA	METROPOLITAN TRANSPORTATION AUTHORITY	TL	TOE LENGTH, TAIL TRACK
DBL	DOUBLE			TO	TURNOUT
DESC	DESCRIPTION	NB	NORTHBOUND	TOR, T/R	TOP OF RAIL
DF	DIRECT FIXATION	NIC	NOT IN CONTRACT	TPSS	TRACTION POWER SUBSTATION
DIA	DIAMETER	NO(S), *	NUMBER, NUMBERS	TRK	TRACK
DR	DRIVE	NR	NEGATIVE RETURN	TWC	TRAIN-TO-WAYSIDE COMMUNICATIONS
DW	DOMESTIC WATER	NTS	NOT TO SCALE	TYP	TYPICAL
DWG	DRAWING				
EA	EACH			UD	UNDERDRAIN
EB	EASTBOUND	OC	ON CENTER(S)	UNC	UNIFIED (INCH) COARSE SCREW THREAD
EG	EXISTING GROUND	OCS	OVERHEAD CONTACT SYSTEM		
ELEV	ELEVATION	OD	OUTSIDE DIAMETER	VERT	VERTICAL
EPS	EXTENDED POLYSTYRENE	OPP	OPPOSITE		
EQ	EQUAL				
EQN	EQUATION	PA	PUBLIC ADDRESS	WB	WESTBOUND
EQUIL	EQUILIBRIUM	PB	PULLBOX	WKWY	WALKWAY
ETEL	EMERGENCY TELEPHONES	PC	POINT OF CURVATURE	W/	WITH
ETS	EMERGENCY TRIP STATION (BLS)	PCC	POINT OF COMPOUND CURVATURE	W/O	WITHOUT
ETSF	EMERGENCY TRIP STATION FIRE	PF	POINT OF FROG		
EW	EACH WAY	PFS	PRECAST FLOATING SLAB	X-ING	CROSSING
EXIST	EXISTING	PGL	PROFILE GRADE LINE	X/O	CROSSOVER
		PI	POINT OF INTERSECTION		
FDN	FOUNDATION	PITO	POINT OF INTERSECTION OF THE TURNOUT	YC	YARD CONTROL
FF	FINISH FLOOR	POB	POINT OF BEGINNING		
FG	FROG GAUGE PLATE	POE	POINT OF ENDING		
FI	FIXED INVERT	PROP	PROPOSED		
FIN GR	FINISHED GRADE	PS	POINT OF SWITCH		
FL	FLOW LINE	PT	POINT OF TANGENCY		
FP	FIRE PROTECTION	PTEL	PASSENGER ASSISTANCE TELEPHONE		
FS	FINISHED SURFACE	PVMT	PAVEMENT		
FT	FOOT OR FEET				
FWY	FREEWAY				

APPLICABLE CODES

AREMA MANUAL FOR RAILWAY ENGINEERING, 2021
SCRRRA DESIGN CRITERIA MANUAL (NOVEMBER 2014)
SCRRRA ENGINEERING STANDARDS (AS OF JUNE 2020)
FRA TRACK SAFETY STANDARDS
FRA TRACK SAFETY STANDARDS 49 CODE OF FEDERAL REGULATIONS (CFR) SECTIONS 213,214,234,236
CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, 2019 EDITION
CALIFORNIA BUILDING CODE (CBC), 2019 EDITION
CALIFORNIA BUILDING CODE (CBC), CHAPTER 11B - ACCESSIBILITY
AMERICANS WITH DISABILITIES ACT (ADA)
CALIFORNIA FIRE CODE, 2019 EDITION
CALIFORNIA MECHANICAL CODE, 2019 EDITION
CALIFORNIA PLUMBING CODE, 2019 EDITION
CALIFORNIA ELECTRICAL CODE, 2019 EDITION
CALIFORNIA ENERGY CODE, 2019 EDITION
INTERNATIONAL FIRE CODE 2021
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- NFPA 13-2016, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE), CHAPTERS 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE), CHAPTERS 5-11, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
AMERICAN CONCRETE INSTITUTE (ACI), BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL, 15TH EDITION, 2017
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), SECTION 341-16, SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, 2017 EDITION
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), SECTION 360-16, 2016
AIR MOVEMENT AND CONTROL ASSOCIATION (AMCA)
- AMCA 210, LABORATORY METHODS OF TESTING FANS FOR AERODYNAMIC PERFORMANCE RATING.
- AMCA 300, REVERBERANT ROOM METHOD FOR SOUND TESTING OF FANS
- AMCA 301, METHODS FOR CALCULATING FAN SOUND RATINGS FROM LABORATORY TEST DATA
- AMCA 500-D, LABORATORY METHODS OF TESTING DAMPERS FOR RATING
- AMCA 500-L, LABORATORY METHODS OF TESTING LOUVERS FOR RATING
AIR-CONDITIONING AND REFRIGERATION INSTITUTE (ARI)
- ARI 350, SOUND RATING OF NON-DUCTED INDOOR AIR CONDITIONING EQUIPMENT
- ARI 410, FORCED-CIRCULATION AIR COOLING AND AIR HEATING COILS
AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), BOILER AND PRESSURE VESSEL CODE, SECTION VIII, AND SECTION IX, 2017 EDITION
AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE) STANDARDS
- ASHRAE 16, METHOD OF TESTING FOR RATING ROOM AIR CONDITIONERS AND PACKAGED TERMINAL AIR CONDITIONERS.
- ASHRAE 37, METHOD OF TESTING UNITARY AIR CONDITIONING AND HEAT EQUIPMENT
- ASHRAE 51, LABORATORY METHODS OF TESTING FANS FOR RATING PURPOSE
- ASHRAE 52.1, METHOD OF TESTING GENERAL VENTILATION AIR-CLEANING DEVICES FOR REMOVAL EFFICIENCY BY PARTICLE SIZE
- ASHRAE 62, VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY
- ASHRAE 68, LABORATORY METHOD OF TESTING TO DETERMINE THE SOUND POWER IN A DUCT
- ASHRAE 79, METHODS OF TESTING FOR RATING FAN-COIL AIR CONDITIONERS
- ASHRAE 90.1, ENERGY CONSERVATION IN BUILDINGS, EXCEPT LOW-RISE RESIDENTIAL BUILDINGS
CITY OF IRVINE - STANDARD PLANS AND DESIGN MANUALS (AUGUST 2013)
ZONING ORDINANCE OF THE CITY OF IRVINE (MAY 2020)
ORANGE COUNTY HYDROLOGY MANUAL (1986)
ORANGE COUNTY HYDROLOGY WORKBOOK (1987)
ORANGE COUNTY LOCAL DRAINAGE MANUAL (JANUARY 1996)
ORANGE COUNTY PUBLIC WORKS - MODEL WATER QUALITY MANAGEMENT PLAN (WQMP) (2011)
ORANGE COUNTY PUBLIC WORKS - TECHNICAL GUIDANCE DOCUMENT (TGD) (2013)

DRAWING SYMBOL LEGEND



REV.	DATE	BY	SUB.	APP.
3	4/11/22			
2	01/10/22			
1	10/13/21			
0	6/30/21			

INFORMATION CONFIDENTIAL:
All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.

DESIGNED BY	M BIGGS
DRAWN BY	M BIGGS
CHECKED BY	J NEFF
APPROVED BY	J NEFF
DATE	04/11/2022

NOT FOR CONSTRUCTION

**METROLINK®**



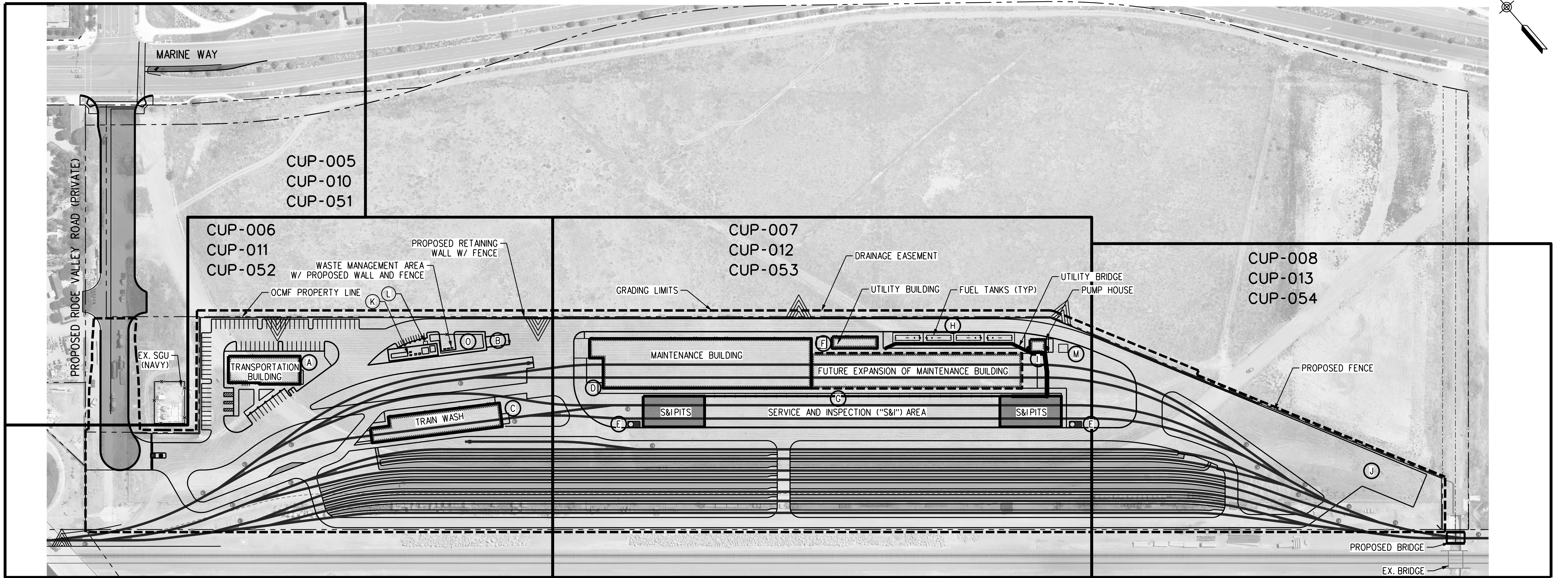
SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

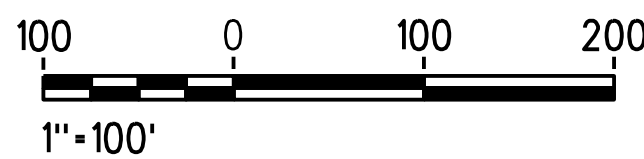
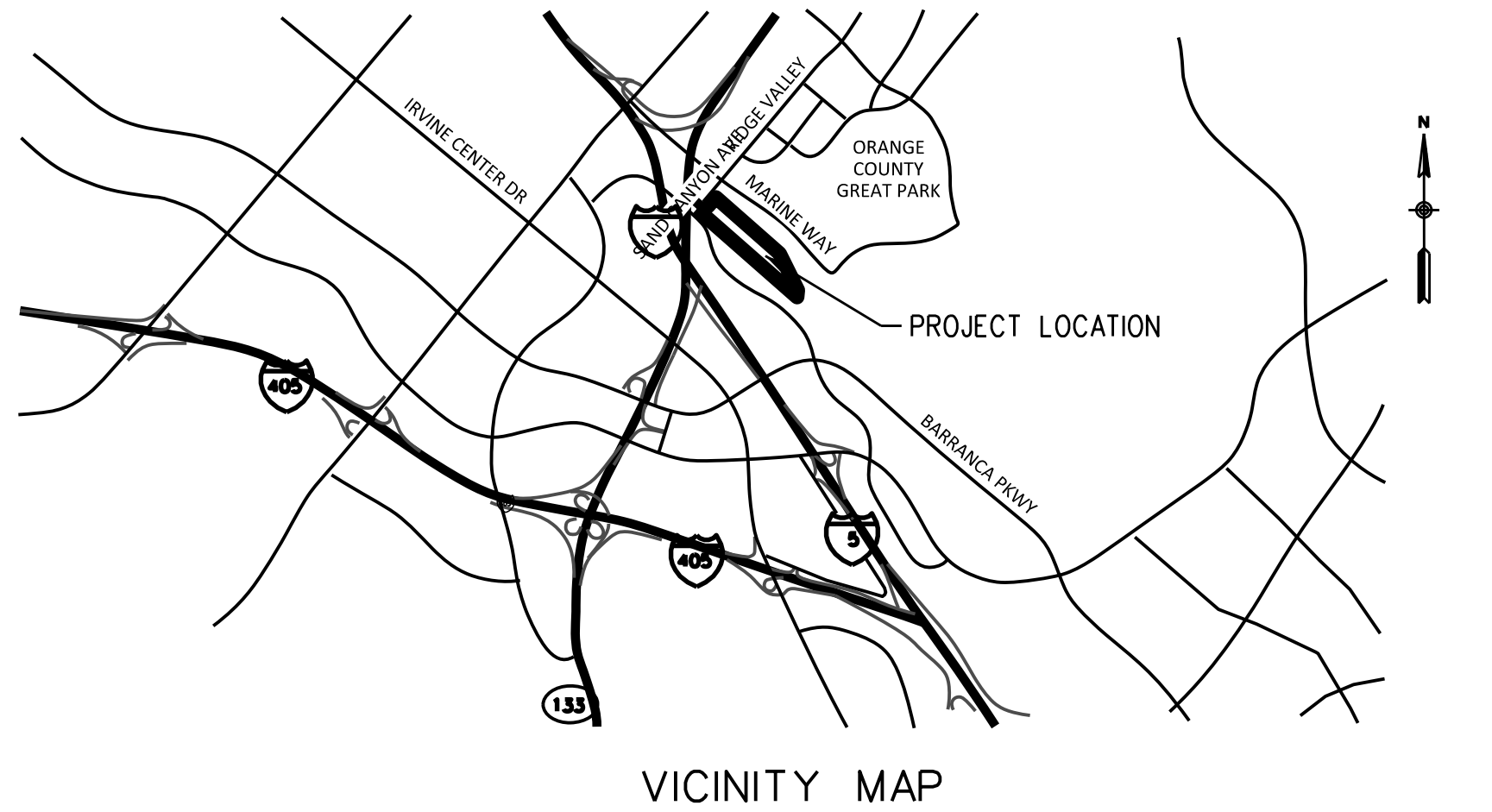
METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
TITLE SHEET
DRAWING ABBREVIATIONS &
DRAWING SYMBOL LEGEND

CASE NO. 00846471-PCPU
CONTRACT NO. C91143
DRAWING NO. CUP-002
REVISION 3 SHEET NO. 2
SCALE AS SHOWN

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FACILITIES SCHEDULE		
CODE	FACILITY	FUNCTION
(A)	TRANSPORTATION BUILDING	OFFICE AND MEETING SPACE FOR CREWS AND STAFF, EMERGENCY DISPATCH AREA, LOCKER ROOMS, AND BREAK ROOM
(B)	TRASH COMPACTOR	COMPACTING TRASH
(C)	TRAIN WASH BUILDING	AUTOMATED TRAIN WASH AND BLOWER/WATER STRIPPER
(D)	MAINTENANCE BUILDING	LIGHT MAINTENANCE AND INSPECTIONS (E.G. BRAKE AND COMPONENT INSPECTIONS/REPAIRS, HVAC INSPECTIONS/EXCHANGES) INCLUDES: SERVICE BAYS, INSPECTION PIT W/PLATFORMS, INSPECTION GAUGE PIT, SUPPORT SHOPS, PARTS STORAGE, LOADING PLATFORM, MAINTENANCE OFFICES, LOCKER ROOMS, AND BREAK ROOM
(E)	SANDING TOWERS	SAND SILO STORAGE FOR WHEEL SANDING ADJACENT TO S&I
(F)	UTILITY BUILDING	HAZMAT STORAGE, BATTERY STORAGE, LUBE PUMP ROOM, AND COMPRESSOR ROOM
(G)	SERVICE & INSPECTION ("S&I") AREA	OPEN AIR PITS WITH CANOPIES ON EACH END FOR SERVICE & INSPECTION. INCLUDES TOILET DUMPING FACILITIES, SERVICE BAYS, REFUELLING (INCLUDING DIESEL EXHAUST FLUID (DEF)), AND SANDBOX FILL STATIONS
(H)	ABOVE-GROUND STORAGE TANKS	UL2085 AST FUEL STORAGE FOR FUELLING TRAINS (120K GAL CAPACITY TOTAL: 4@30K EACH), AND 10K GALLON VERTICAL DEF STORAGE TANK
(I)	PUMP HOUSE	PUMP SKID, FUEL DISPENSING STATION FOR RUBBER-TIRE TRUCKS
(J)	MATERIALS AND EQUIPMENT LAYDOWN AREA	OVER 15,000 S.F. OF PAVED AREA TO MAINTAIN WHEELSETS, HVAC UNITS, MISCELLANEOUS PARTS, AND DELIVERIES
(K)	ELECTRICAL YARD	EQUIPMENT TO PROVIDE ELECTRICAL SERVICE
(L)	EQUIPMENT SHED	6' x 8' SHED FOR BASIC CLEANING SUPPLIES AND EQUIPMENT
(M)	DIESEL EXHAUST FLUID TANK	TANK FOR ACCEPTING AND STORING DIESEL EXHAUST FLUID (DEF)
(O)	WASTE MANAGEMENT AREA	DEDICATED TRASH AREA FOR RECYCLING, TRASH, AND ORGANIC FOOD WASTE



REV.	DATE	DESCRIPTION
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL

INFORMATION CONFIDENTIAL:
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DESIGNED BY	D. SMITH
DRAWN BY	D. SALAZAR
CHECKED BY	J. NEFF
APPROVED BY	M. FREEMAN
DATE	04/11/2022

NOT
FOR
CONSTRUCTION

**METROLINK**[®]

Gannett Fleming

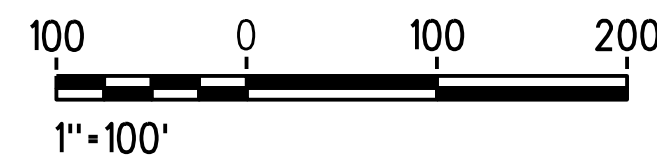
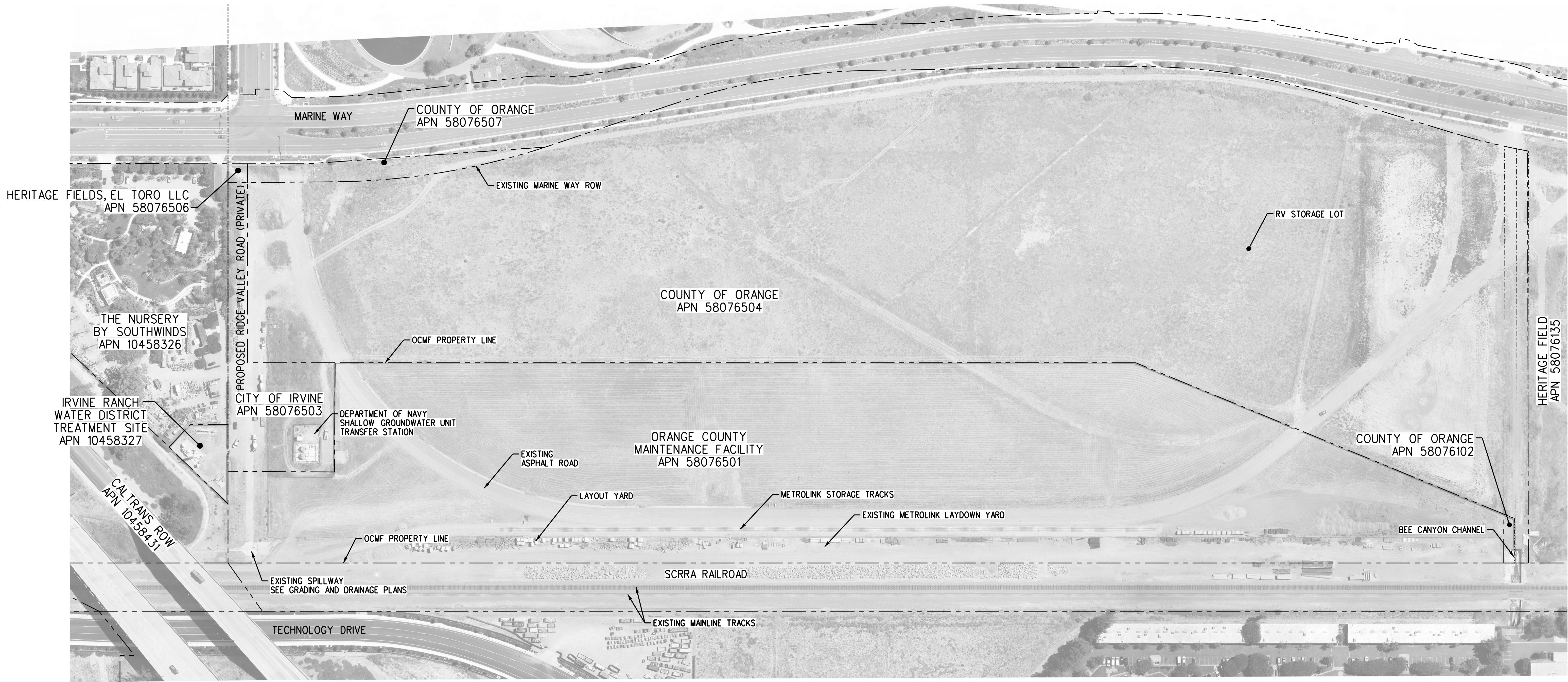
SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
PROJECT SITE KEY PLAN

CASE NO. 00846471-PCPU	
CONTRACT NO. C91143	
DRAWING NO. CUP-003	
REVISION 3	SHEET NO. 3
SCALE AS SHOWN	

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REV.	DATE	BY	SUB.	APP.	DATE
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2	01/10/22				
1	10/13/21				
0	6/30/21				
INFORMATION CONFIDENTIAL: All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.					
		DESIGNED BY	D. SMITH		
		DRAWN BY	D. SALAZAR		
		CHECKED BY	J. NEFF		
		APPROVED BY	M. FREEMAN		
		DATE	04/11/2022		

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FOR
CONSTRUCTION

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 **Gannett Fleming**

SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
EXISTING SITE PLAN - OVERALL VIEW

CASE NO. 00846471-PCPU	
CONTRACT NO. C91143	
DRAWING NO. CUP-004	
REVISION	SHEET NO.
3	4
SCALE AS SHOWN	

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2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1			
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL			
REV.	DATE		BY	SUB.	APP.

INFORMATION CONFIDENTIAL: All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.	DESIGNED BY D. SMITH DRAWN BY J. KUNTHARA CHECKED BY J. NEFF APPROVED BY M. FREEMAN DATE 04/11/2022
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FOR
CONSTRUCTION

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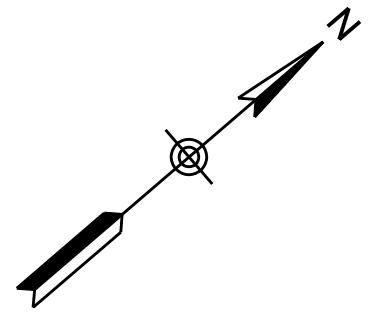
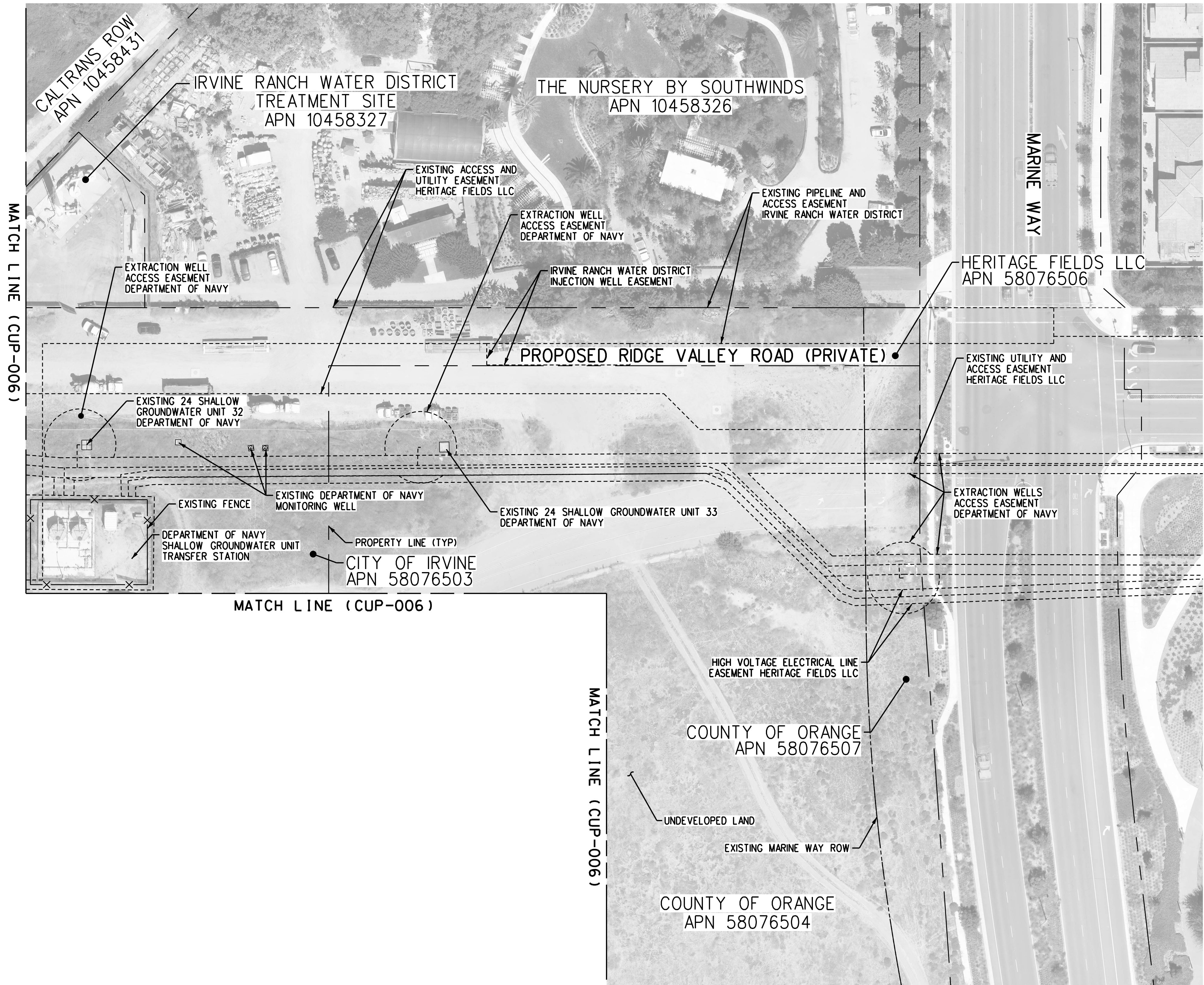
 **Gannett Fleming**

SUBMITTED: _____
PROJECT MANAGER

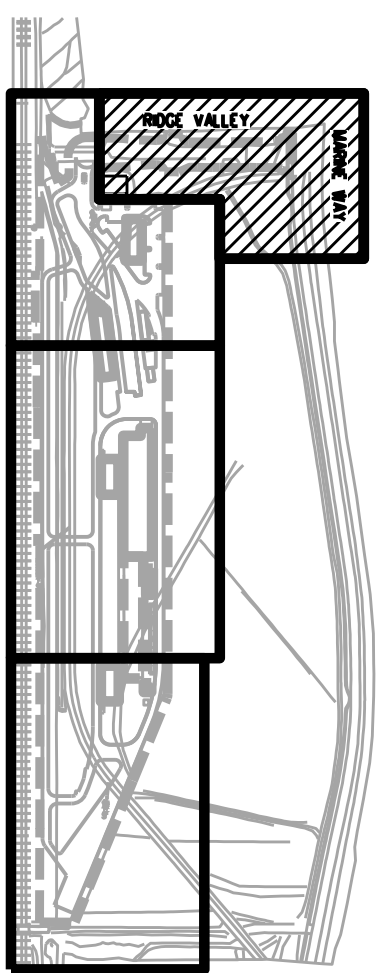
APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
EXISTING SITE PLAN
SHEET 1 OF 4

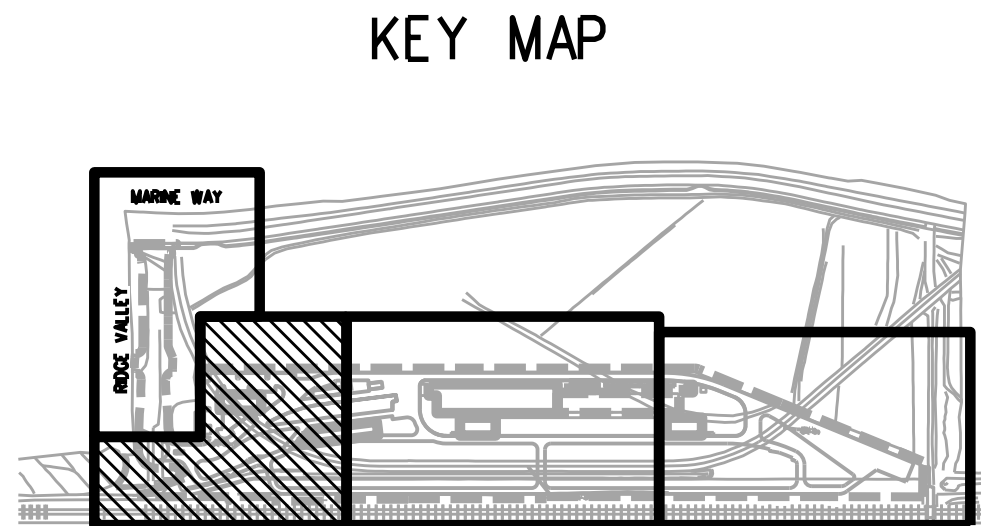
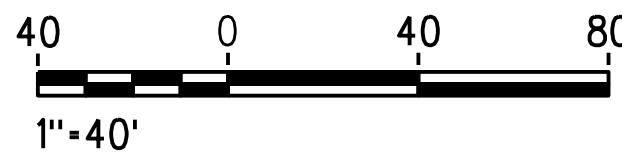
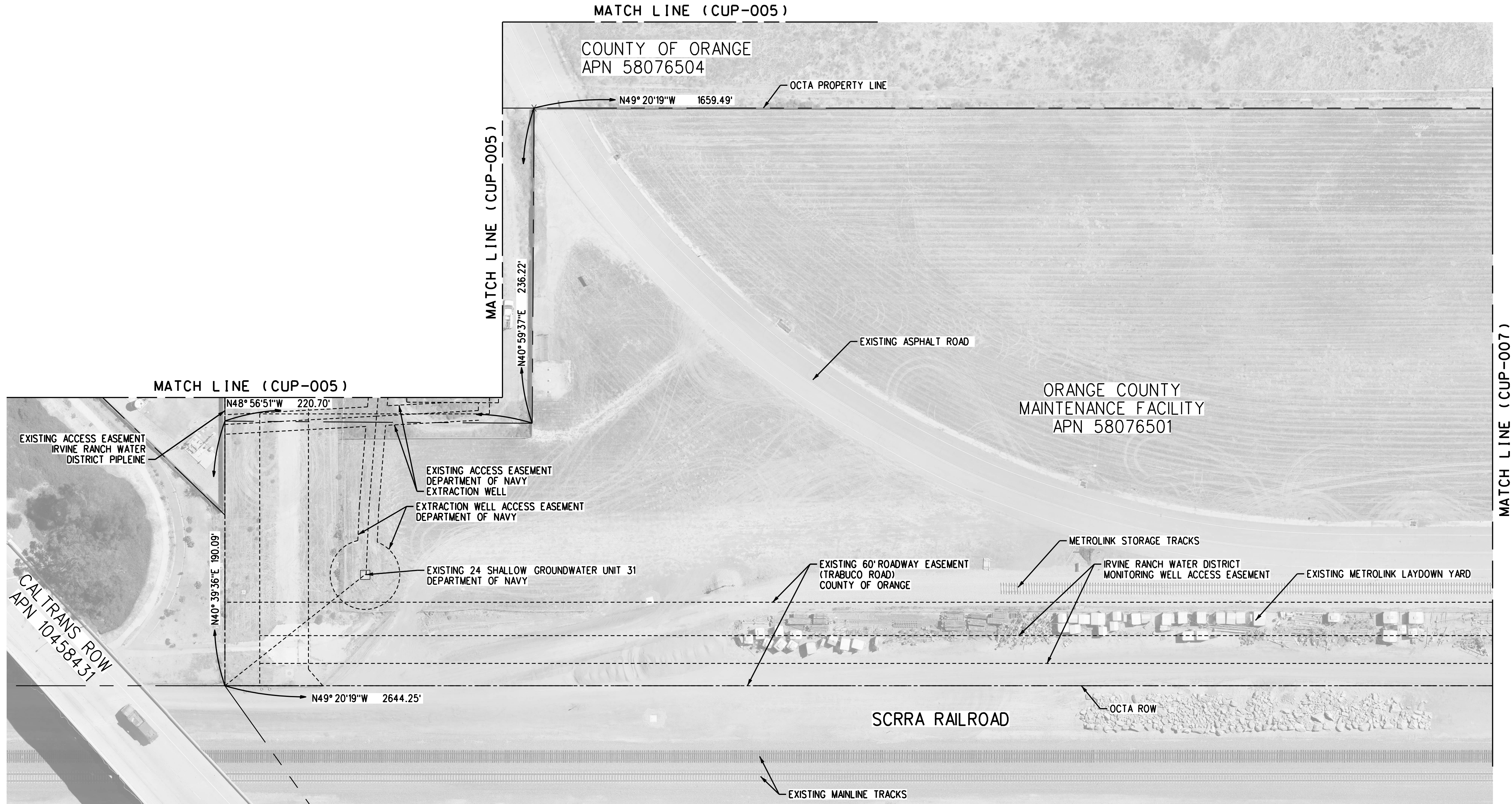
CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-005
REVISION	SHEET NO.
3	5
SCALE	AS SHOWN



KEY MAP



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REV.	DATE	DESCRIPTION	BY	SUB.	APP.
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3			
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1			
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL			

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DESIGNED BY
D. SMITH
DRAWN BY
J. KUNTHARA
CHECKED BY
J. NEFF
APPROVED BY
M. FREEMAN
DATE
04/11/2022

NOT
FOR
CONSTRUCTION

**METROLINK**[®]

 **Gannett Fleming**

SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
EXISTING SITE PLAN
SHEET 2 OF 4

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-006
REVISION	SHEET NO.
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SCALE	AS SHOWN

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REV.	DATE	BY	SUB.	APP.	INFORMATION CONFIDENTIAL: All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.	DESIGNED BY D. SMITH DRAWN BY J. KUNTHARA CHECKED BY J. NEFF APPROVED BY M. FREEMAN DATE 04/11/2022
3	4/11/22				CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3	
2	01/10/22				CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2	
1	10/13/21				CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1	
0	6/30/21				CONDITIONAL USE PERMIT SUBMITTAL	

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FOR
CONSTRUCTION

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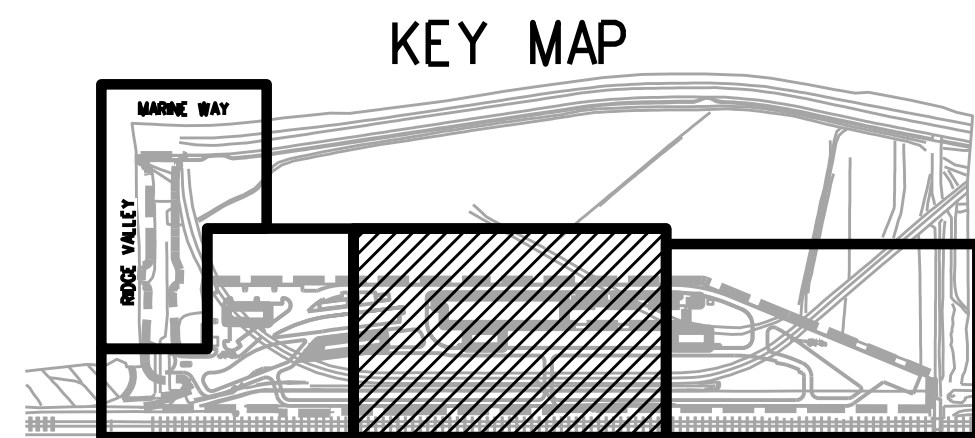
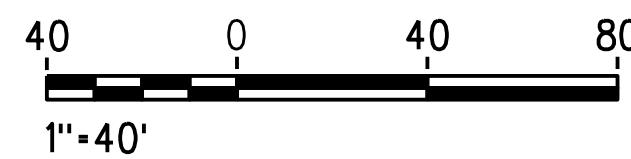
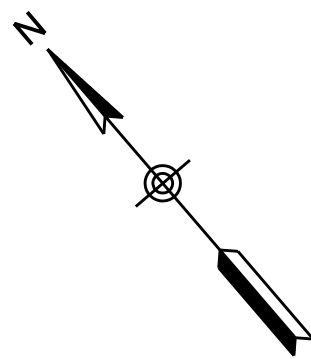
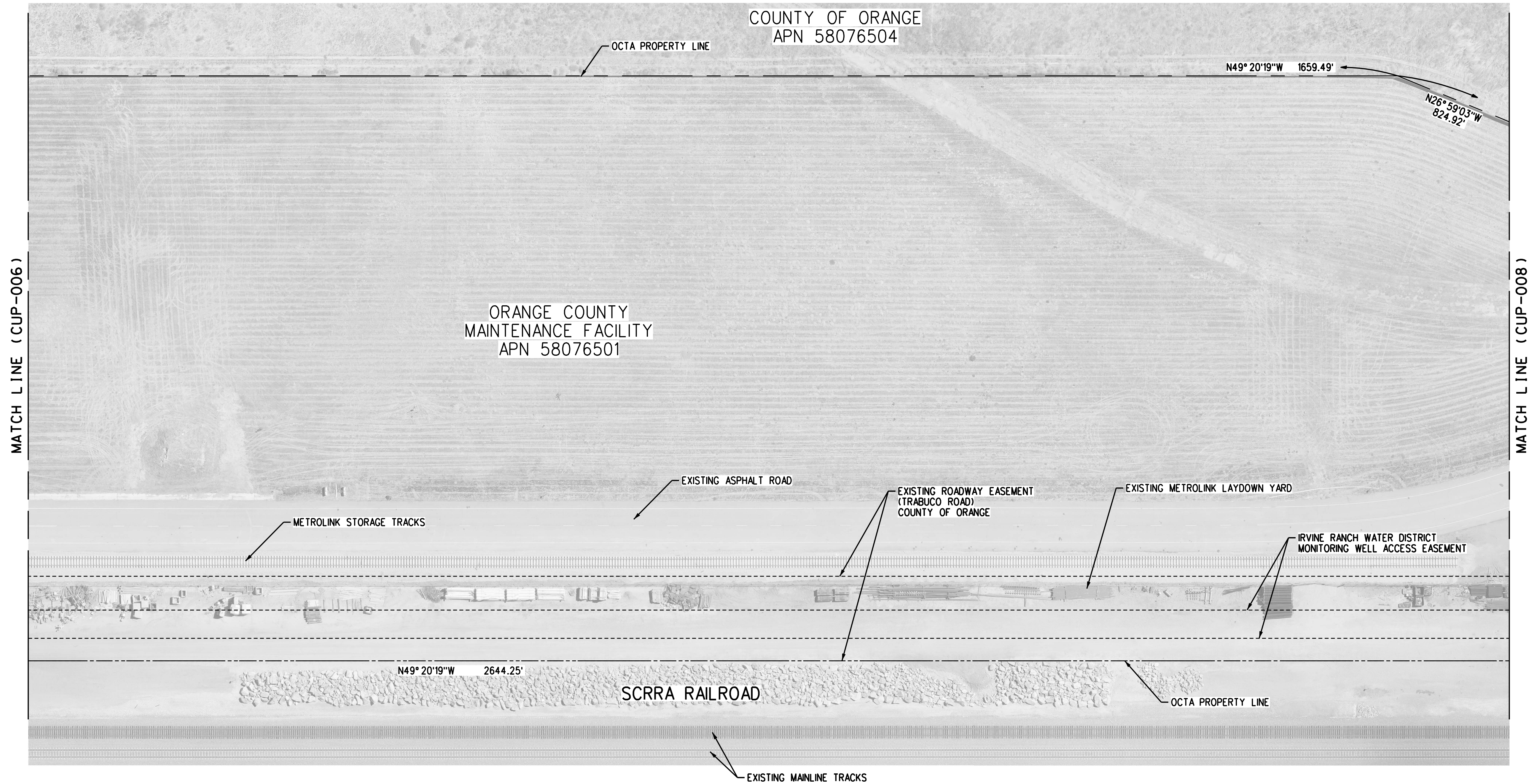
 **Gannett Fleming**

SUBMITTED: _____
PROJECT MANAGER

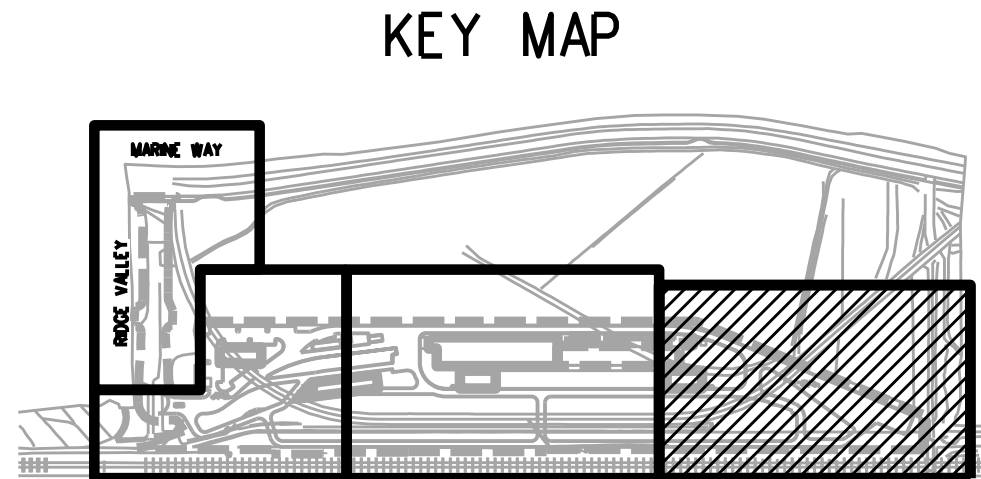
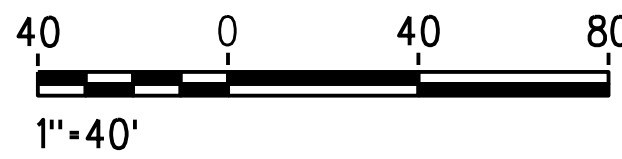
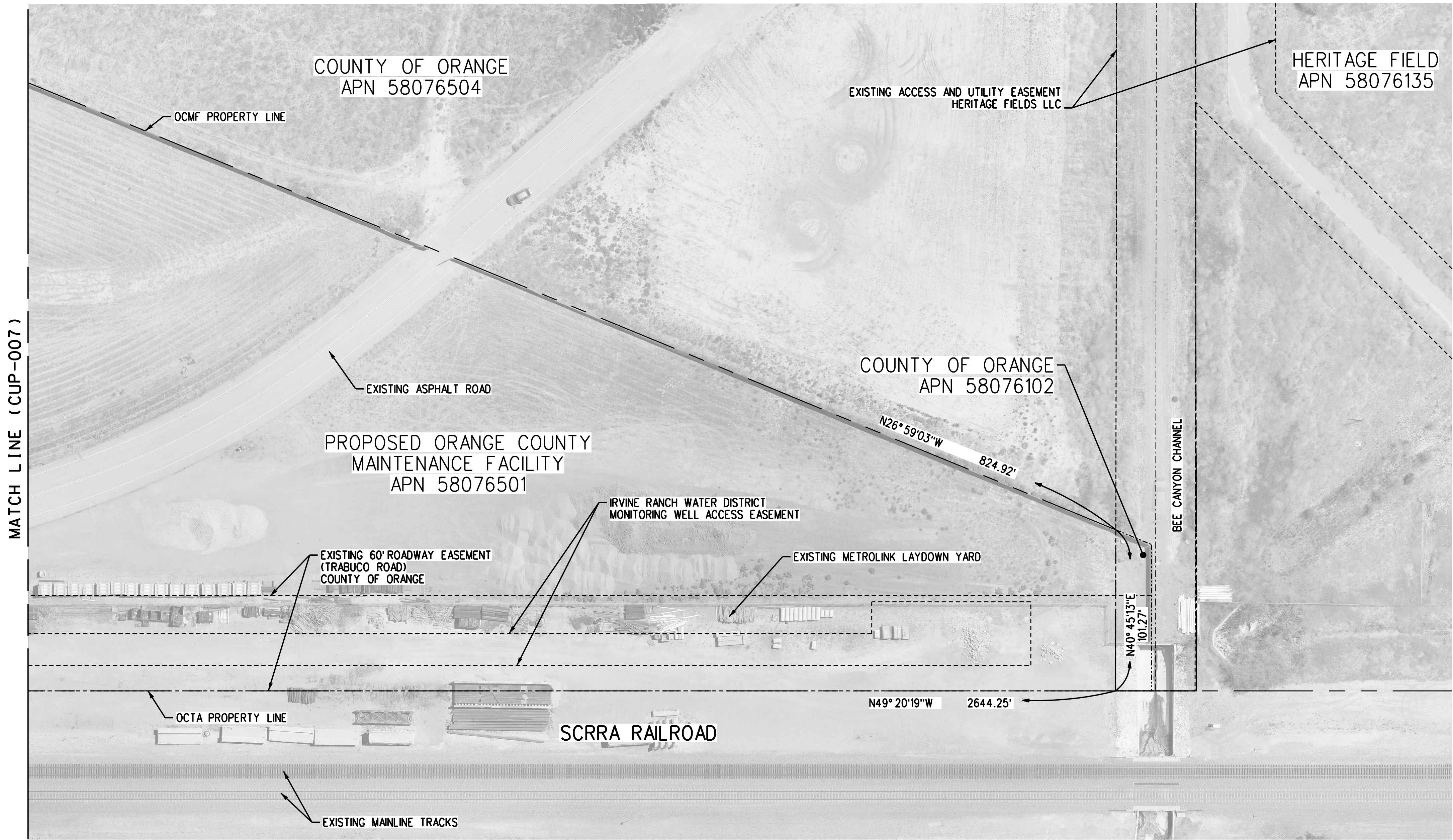
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METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
EXISTING SITE PLAN
SHEET 3 OF 4

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-007
REVISION	SHEET NO.
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SCALE	AS SHOWN



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3	4/11/22				DESIGNED BY D. SMITH
2	01/10/22				DRAWN BY J. KUNTHARA
1	10/13/21				CHECKED BY J. NEFF
0	6/30/21				APPROVED BY M. FREEMAN
					DATE 04/11/2022

NOT
FOR
CONSTRUCTION



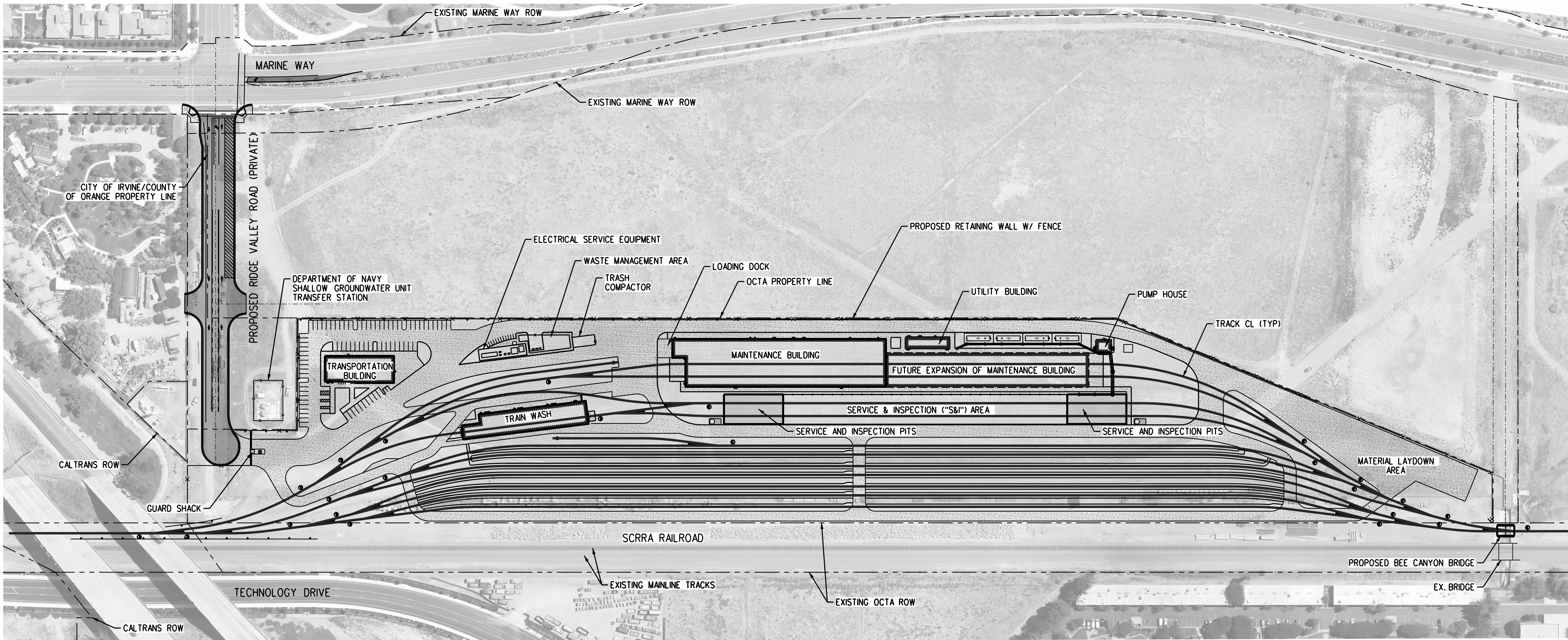
SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

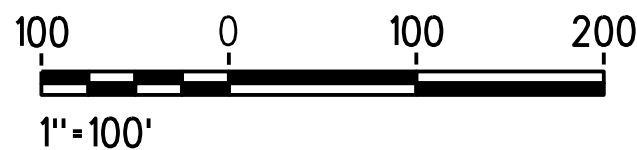
METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
EXISTING SITE PLAN
SHEET 4 OF 4

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-008
REVISION	SHEET NO.
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SCALE	AS SHOWN

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- NOTES:
- SEE GRADING PLANS FOR GRADING LIMIT.
 - SEE EXISTING SITE PLAN FOR PROPERTY OWNERS.
 - SEE FENCE PLAN FOR PROPOSED FENCE.
 - SEE RETAINING WALL PLANS FOR PROPOSED RETAINING WALL.



REV.	DATE	BY	SUB.	APP.	INFORMATION CONFIDENTIAL: All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.	DESIGNED BY D. SMITH DRAWN BY D. SALAZAR CHECKED BY J. NEFF APPROVED BY M. FREEMAN DATE 04/11/2022
3	4/11/22				CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3	
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0	6/30/21				CONDITIONAL USE PERMIT SUBMITTAL	

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FOR
CONSTRUCTION

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Gannett Fleming

SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
PROPOSED SITE PLAN - OVERALL VIEW

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-009
REVISION	SHEET NO.
3	
SCALE	AS SHOWN

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NOTES:

- DRIVEWAYS SHALL CONFORM TO CITY STANDARD PLAN 204.
- CURB RETURNS AT MARINE WAY SHALL CONFORM TO CITY STANDARD PLAN 202.
- REFER TO EXISTING SITE PLANS FOR PROPERTY OWNERS.
- REFER CUP-016 FOR LINE OF SIGHT DETAIL.
- EASTMENTS WITH THE CITY OF IRVINE, COUNTY OF ORANGE, AND/OR HERITAGE FIELDS WILL BE PROVIDED IN THE FINAL DESIGN PHASE.
- IN LIEU OF SIDEWALK, DROP-OFF AT END OF CUL DE SAC WILL BE USED FOR WALKING IN FOR ANY ADA COMPLIANCE REQUIRED.

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CHECKED BY J. NEFF
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DATE 04/11/2022

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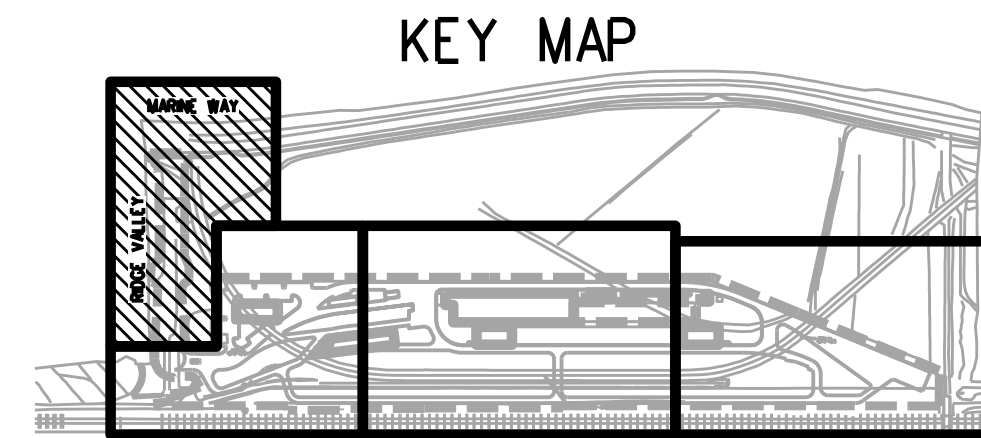
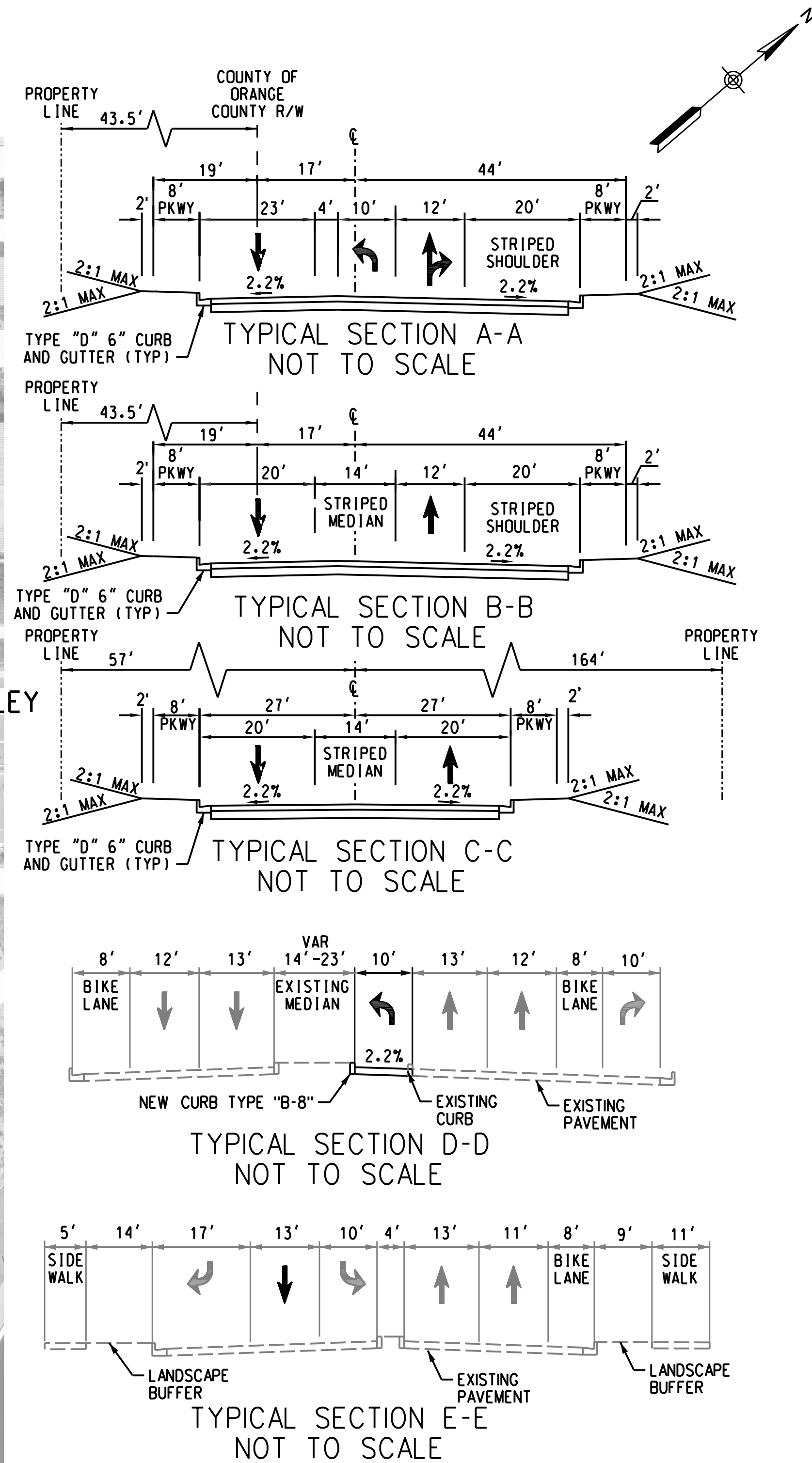
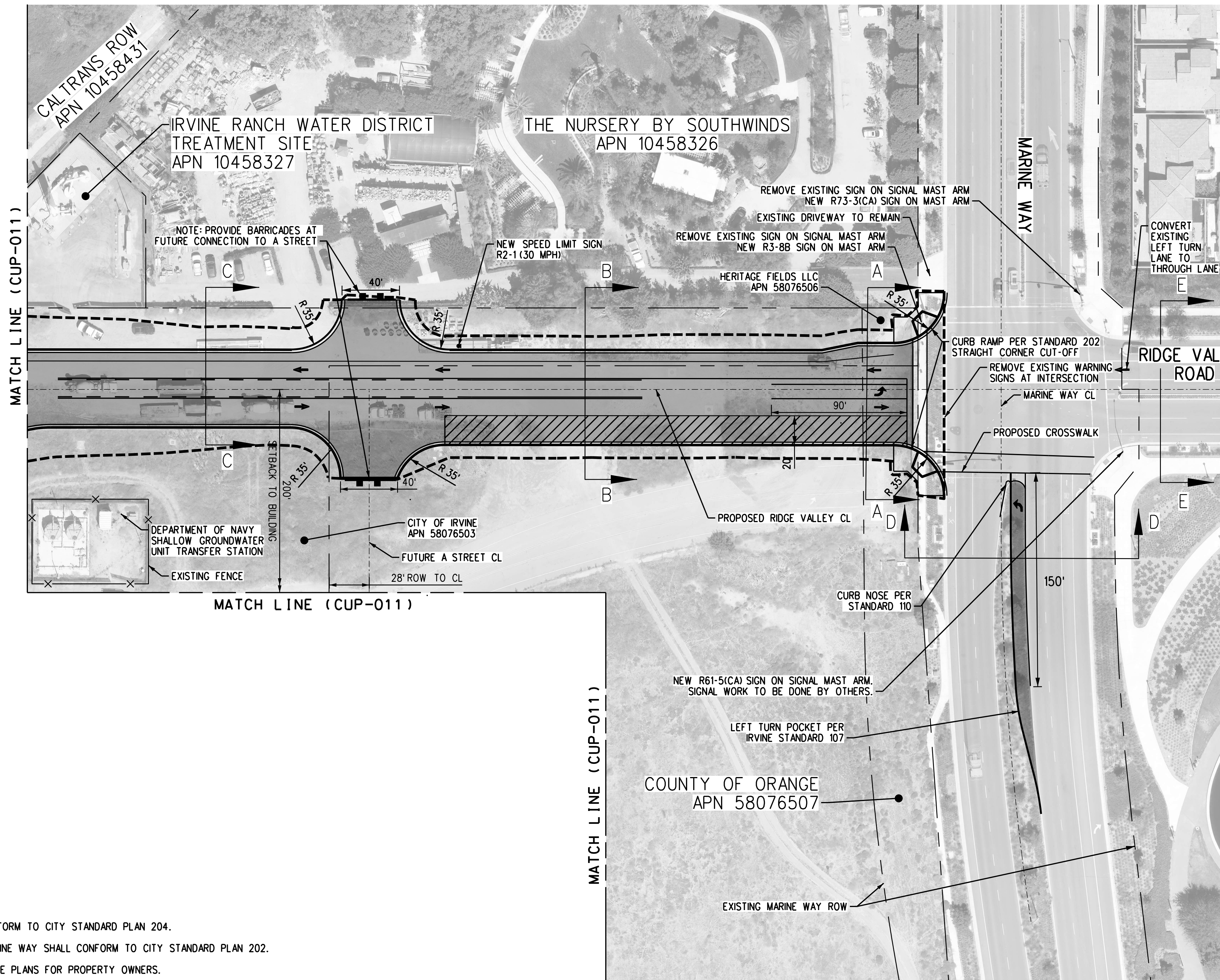
Gannett Fleming

SUBMITTED: PROJECT MANAGER

APPROVED:

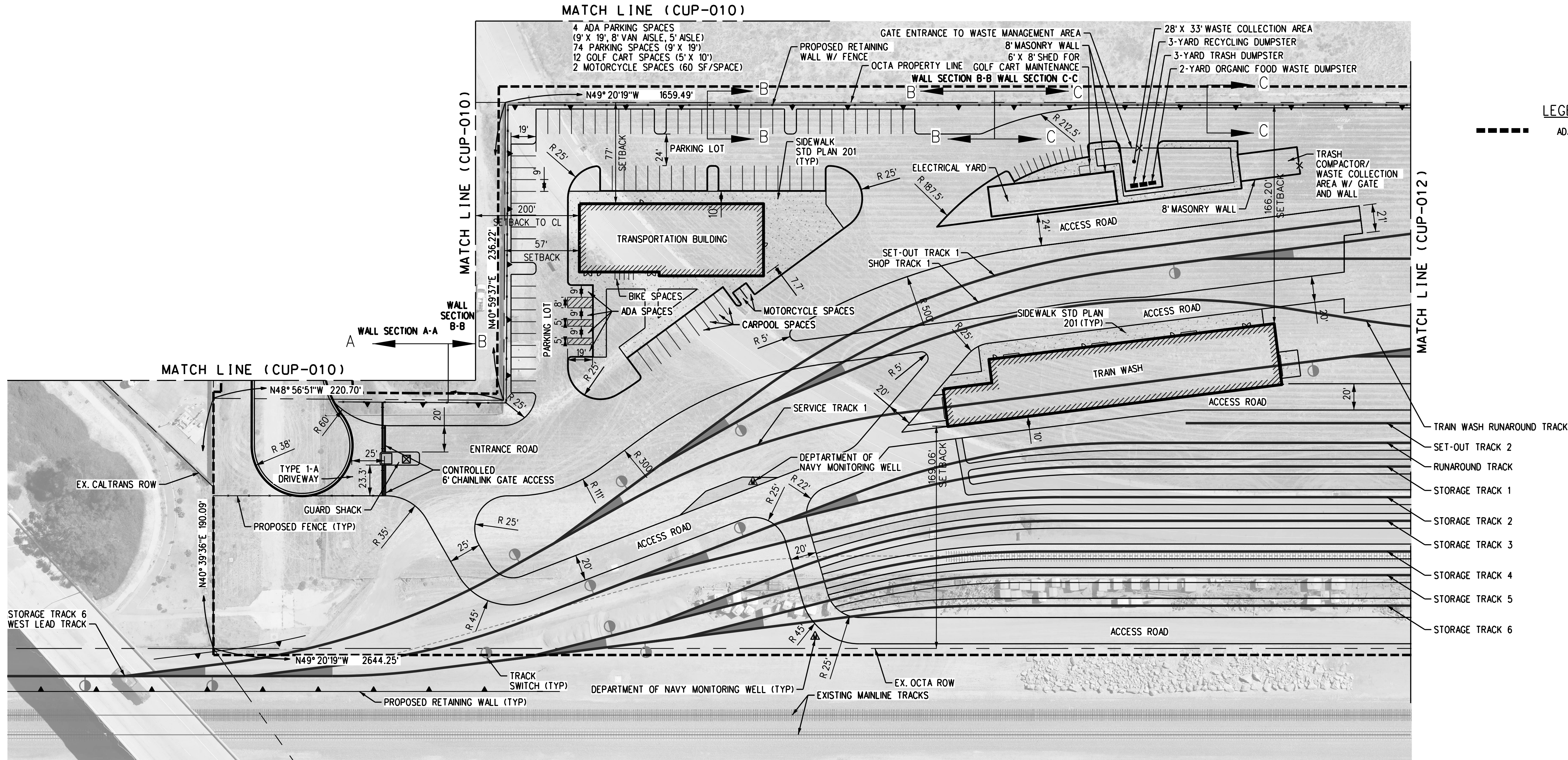
METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT CIVIL PROPOSED SITE PLAN SHEET 1 OF 4

CONTRACT NO. 00846471-PCPU
DRAWING NO. CUP-010
REVISION SHEET NO.
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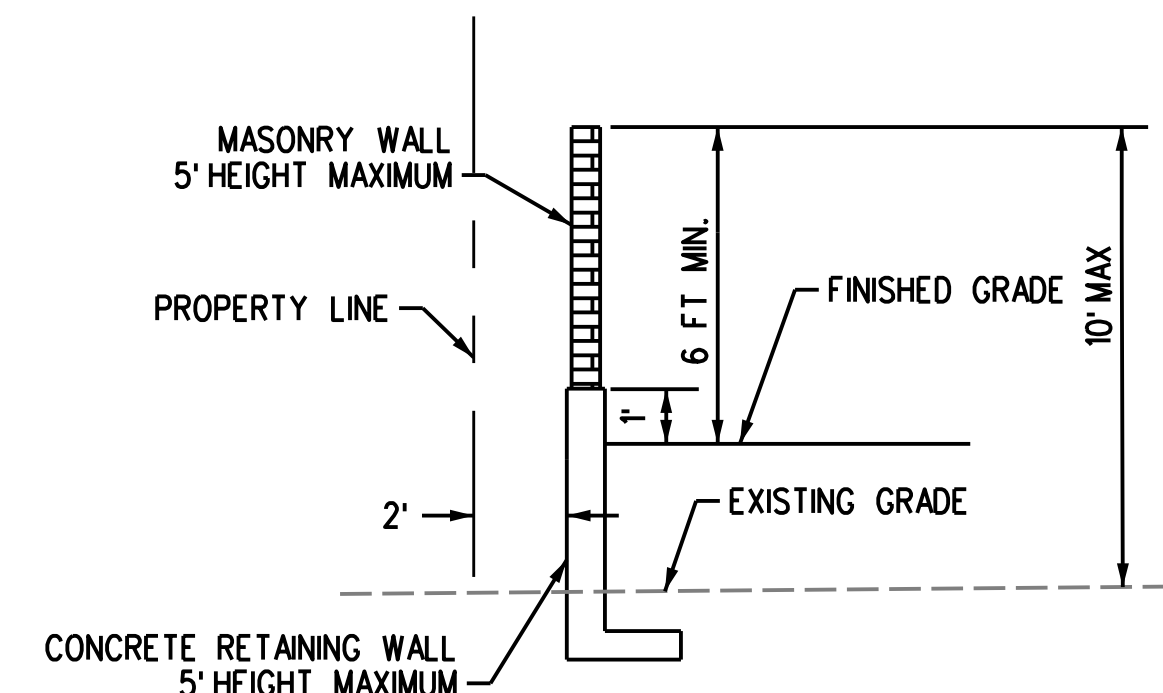


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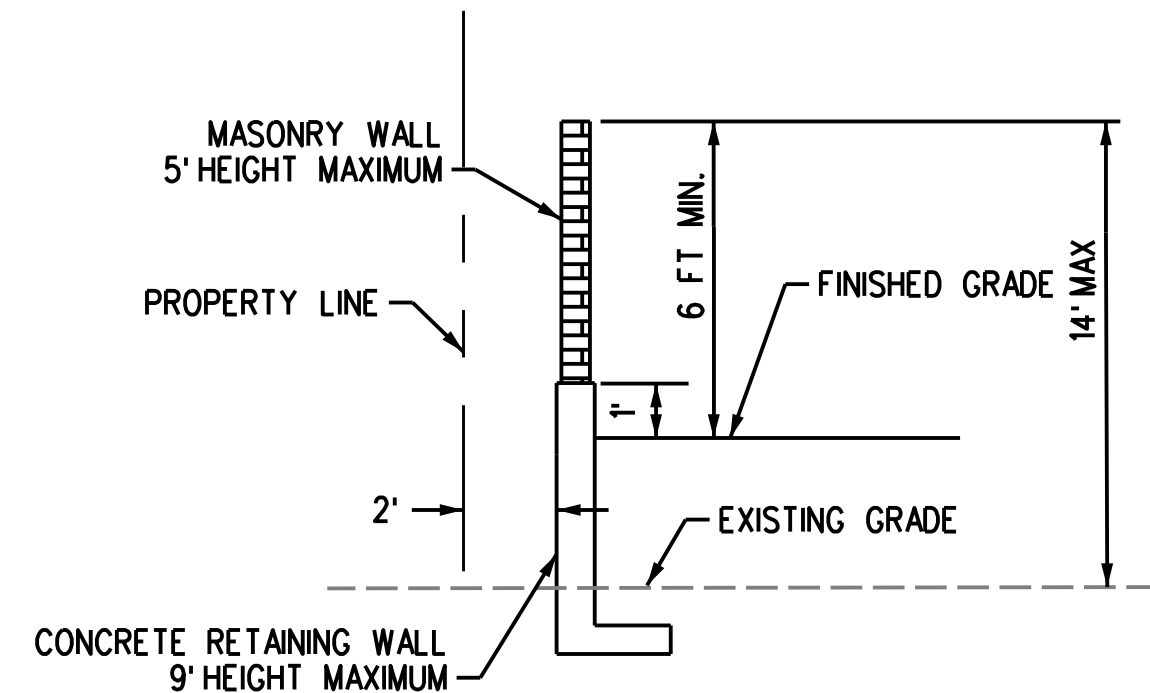
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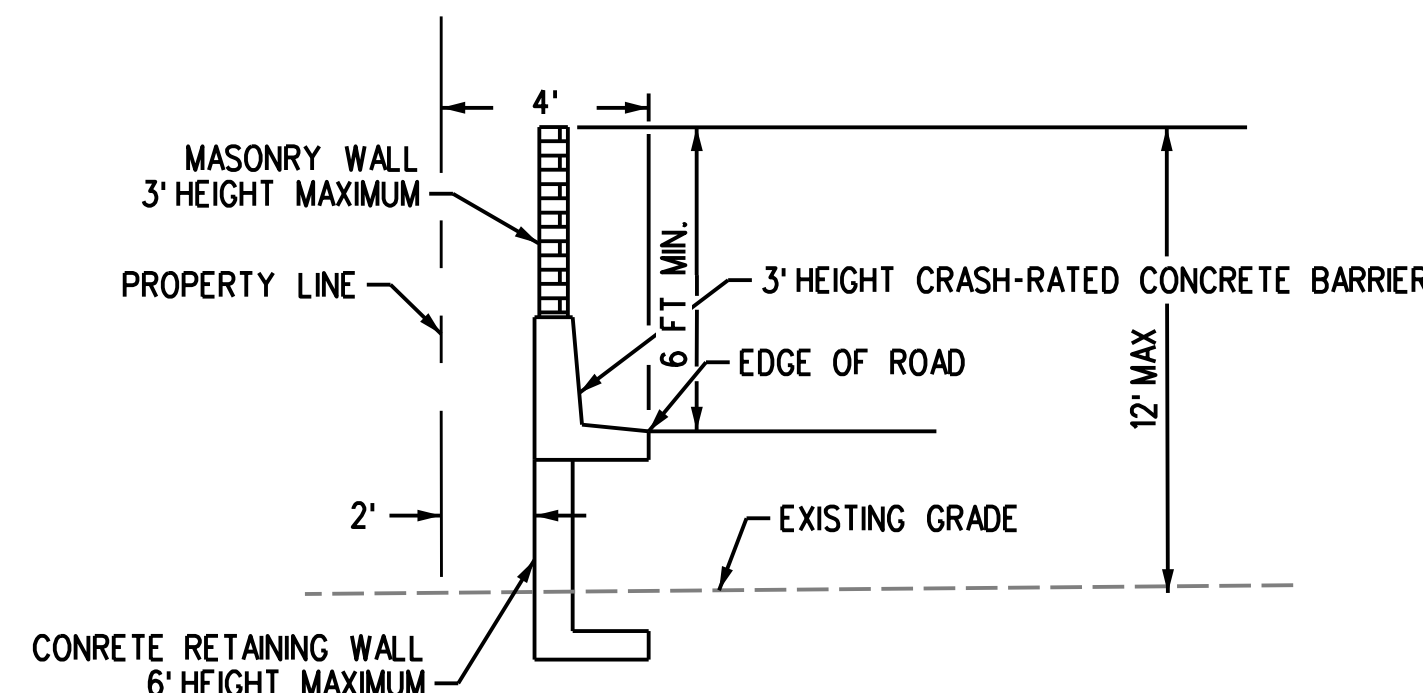
LEGEND:
- - - - - ADA PATH OF TRAVEL



TYPICAL WALL SECTION
A-A
NOT TO SCALE



TYPICAL WALL SECTION
B-B
NOT TO SCALE



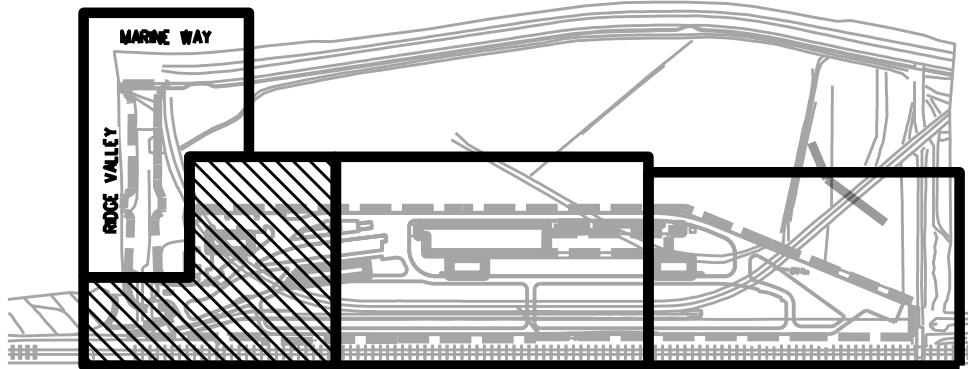
TYPICAL WALL SECTION
C-C
NOT TO SCALE

40 0 40 80
1"=40'

NOTES:

- REFER TO EXISTING SITE PLANS FOR PROPERTY OWNERS
- IN COMPLIANCE WITH CITY'S CONSTRUCTION & DEMOLITION (C&D): ALL CONSTRUCTION DEMOLITION PROJECTS REQUIRE WASTE MANAGEMENT PLAN (WMP).
- A JANITORIAL SERVICE WILL COLLECT THE WASTE, RECYCLING, AND ORGANIC FOOD WASTE MATERIALS FROM ALL SITES BUILDING AND BRING TO THE RESPECTIVE DUMPSTERS AND TRASH COMPACTOR AT THE WASTE COLLECTION AREA. THE RESPECTIVE WASTE, RECYCLING, AND ORGANIC FOOD WASTE COLLECTION VEHICLES WILL RETRIEVE THE WASTE THE SECURE WASTE COLLECTION AREA TO BRING OFFSITE.
- IN LIEU OF SIDEWALK, DROP-OFF AT END OF CUL DE SAC WILL BE USED FOR WALKING IN FOR ANY ADA COMPLIANCE REQUIRED.
- SEE RETAINING WALL SHEET FOR PROPOSED RETAINING WALL. SEE FENCE SHEETS FOR PROPOSED FENCE.

KEY MAP



REV.	DATE	DESCRIPTION
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1
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DESIGNED BY
D. SMITH
DRAWN BY
J. KUNTHARA
CHECKED BY
J. NEFF
APPROVED BY
M. FREEMAN
DATE
04/11/2022

NOT
FOR
CONSTRUCTION



Gannett Fleming

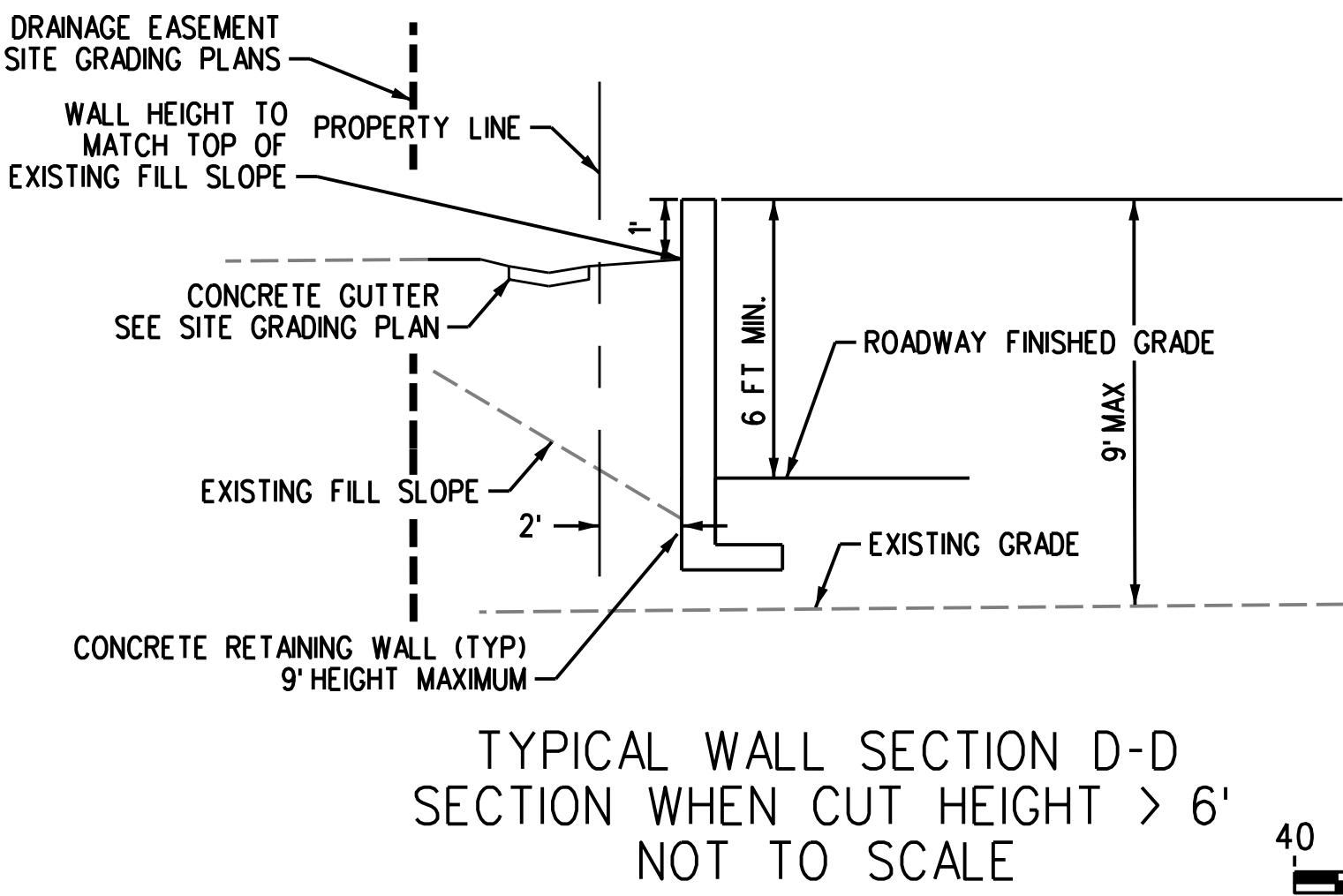
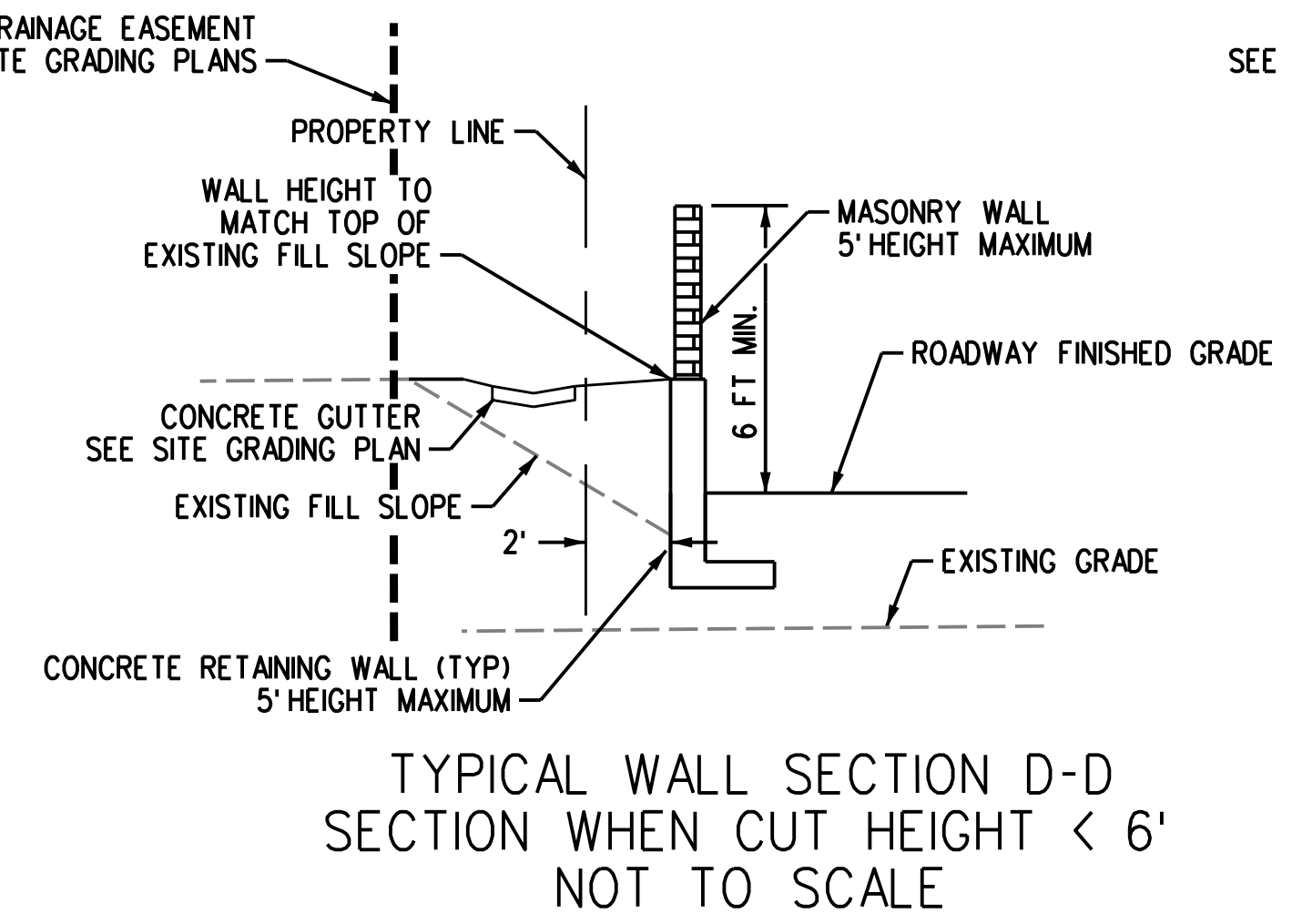
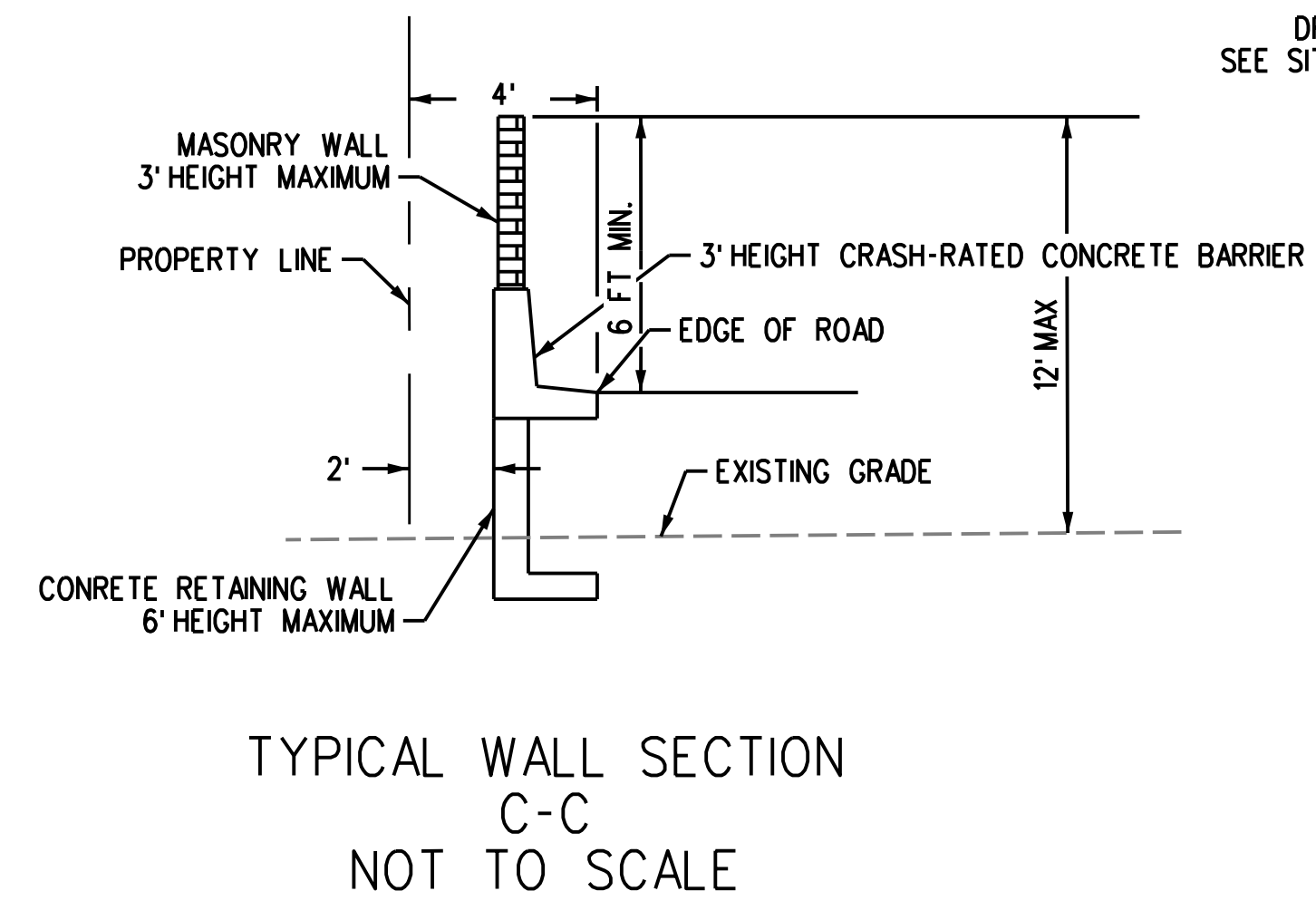
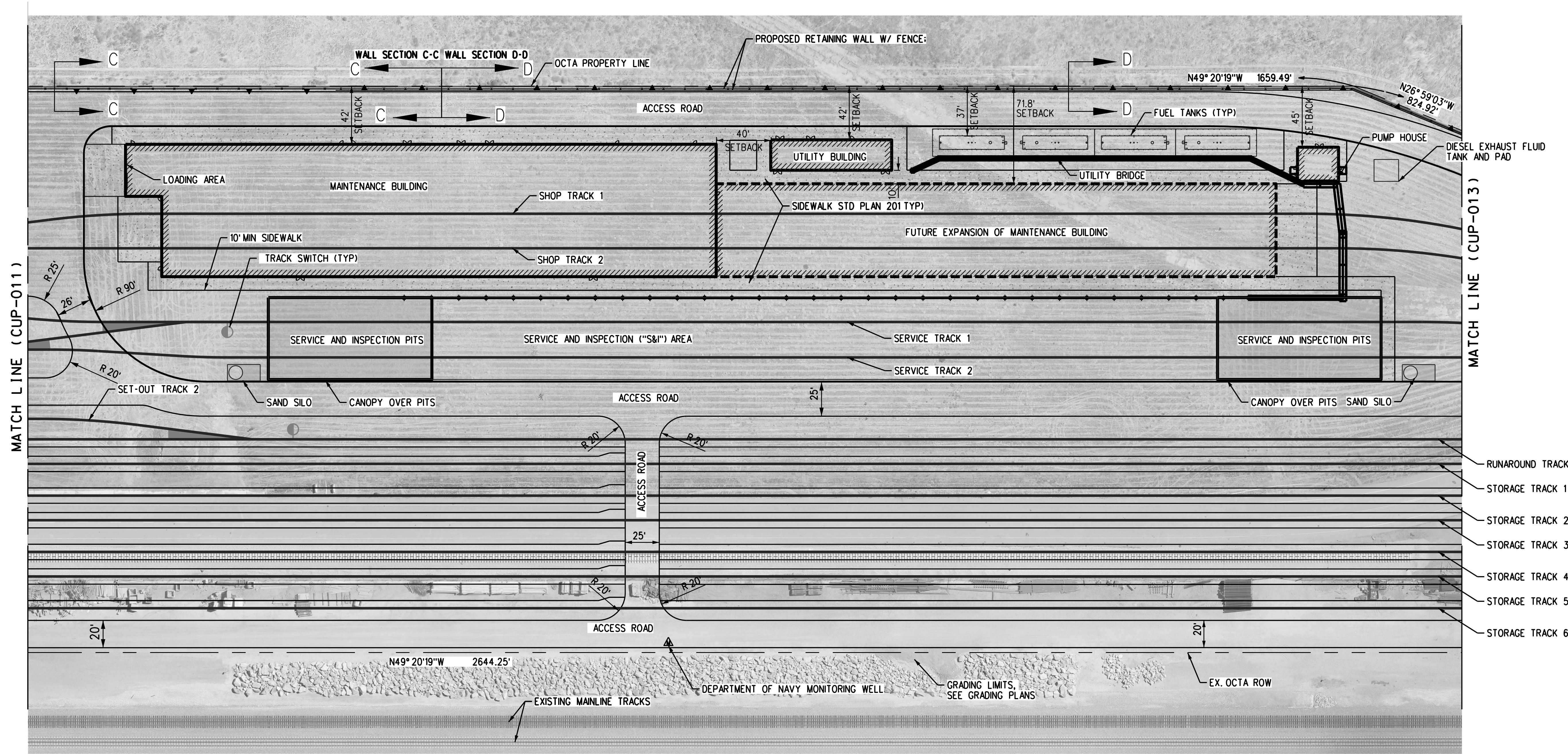
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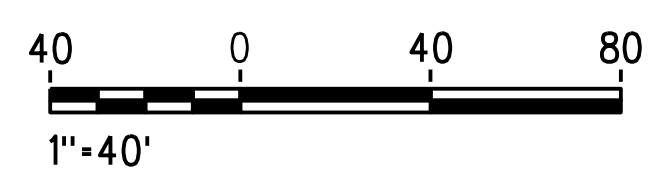
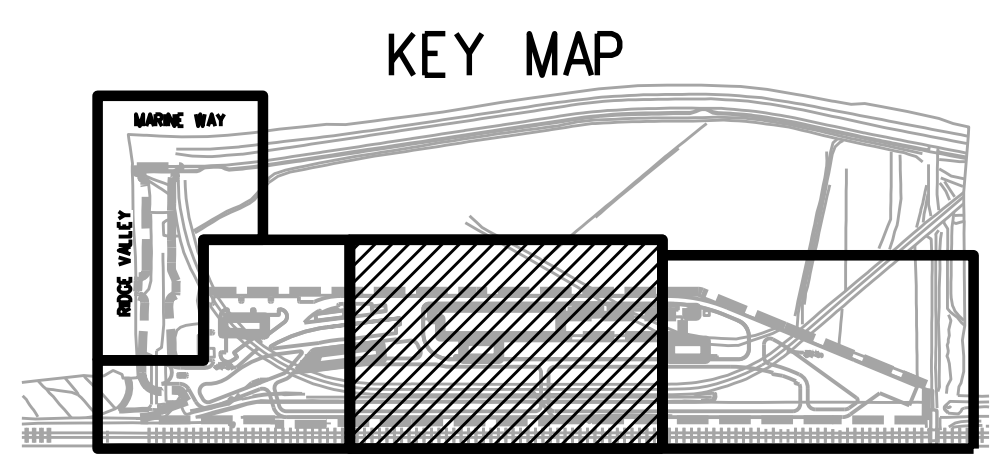
METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
PROPOSED SITE PLAN
SHEET 2 OF 4

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-011
REVISION	SHEET NO.
3	11
SCALE	AS SHOWN

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- NOTES:
1. REFER TO EXISTING SITE PLANS FOR PROPERTY OWNERS.
 2. SEE RETAINING WALL PLAN FOR PROPOSED RETAINING WALL.
 3. SEE FENCE PLANS FOR PROPOSED FENCE.



REV.	DATE	DESCRIPTION	BY	SUB.	APP.
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3			
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1			
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL			

INFORMATION CONFIDENTIAL:	DESIGNED BY	D. SMITH
All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.	DRAWN BY	D. SALAZAR
	CHECKED BY	J. NEFF
	APPROVED BY	M. FREEMAN
	DATE	04/11/2022

NOT FOR CONSTRUCTION

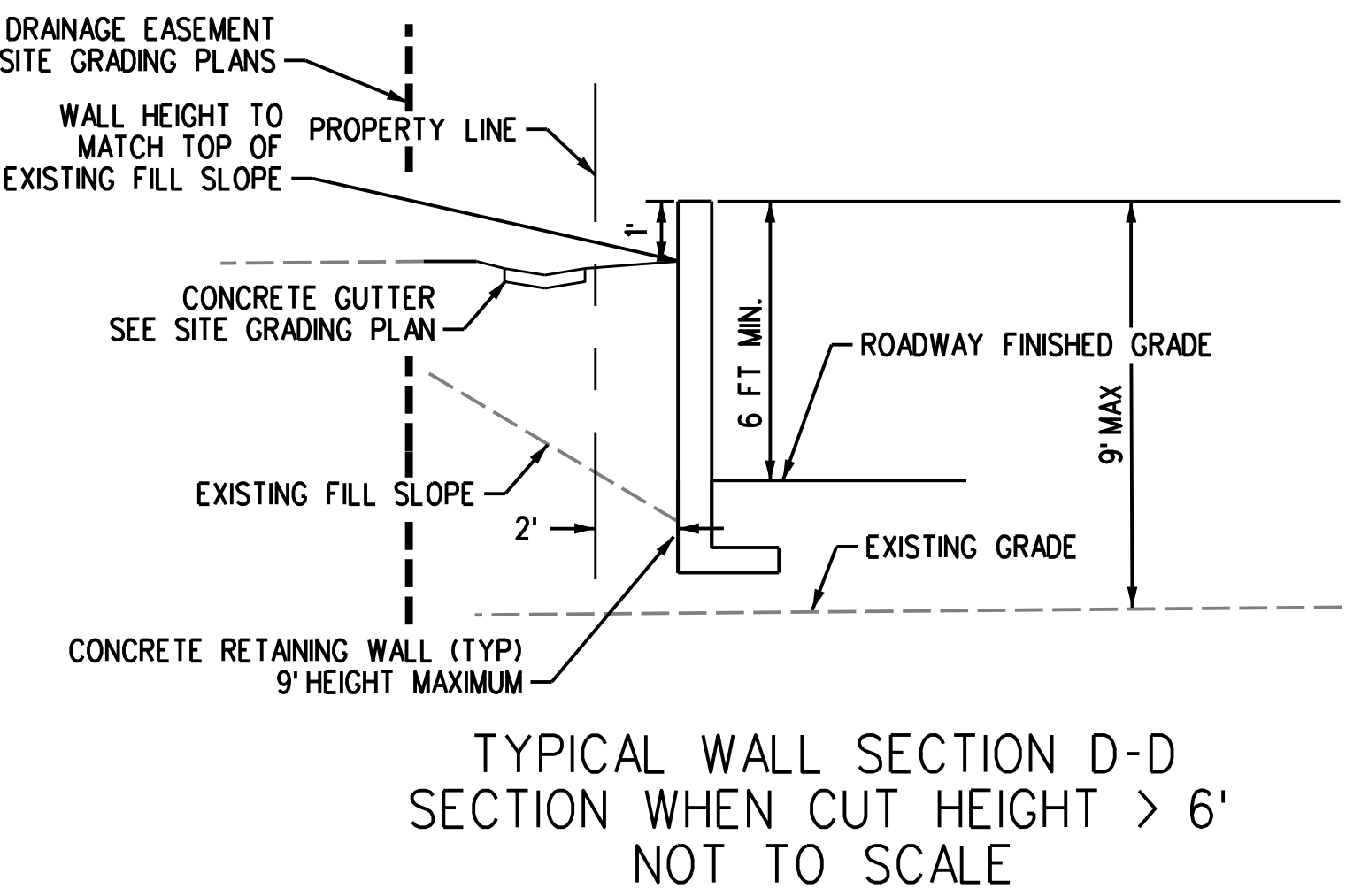
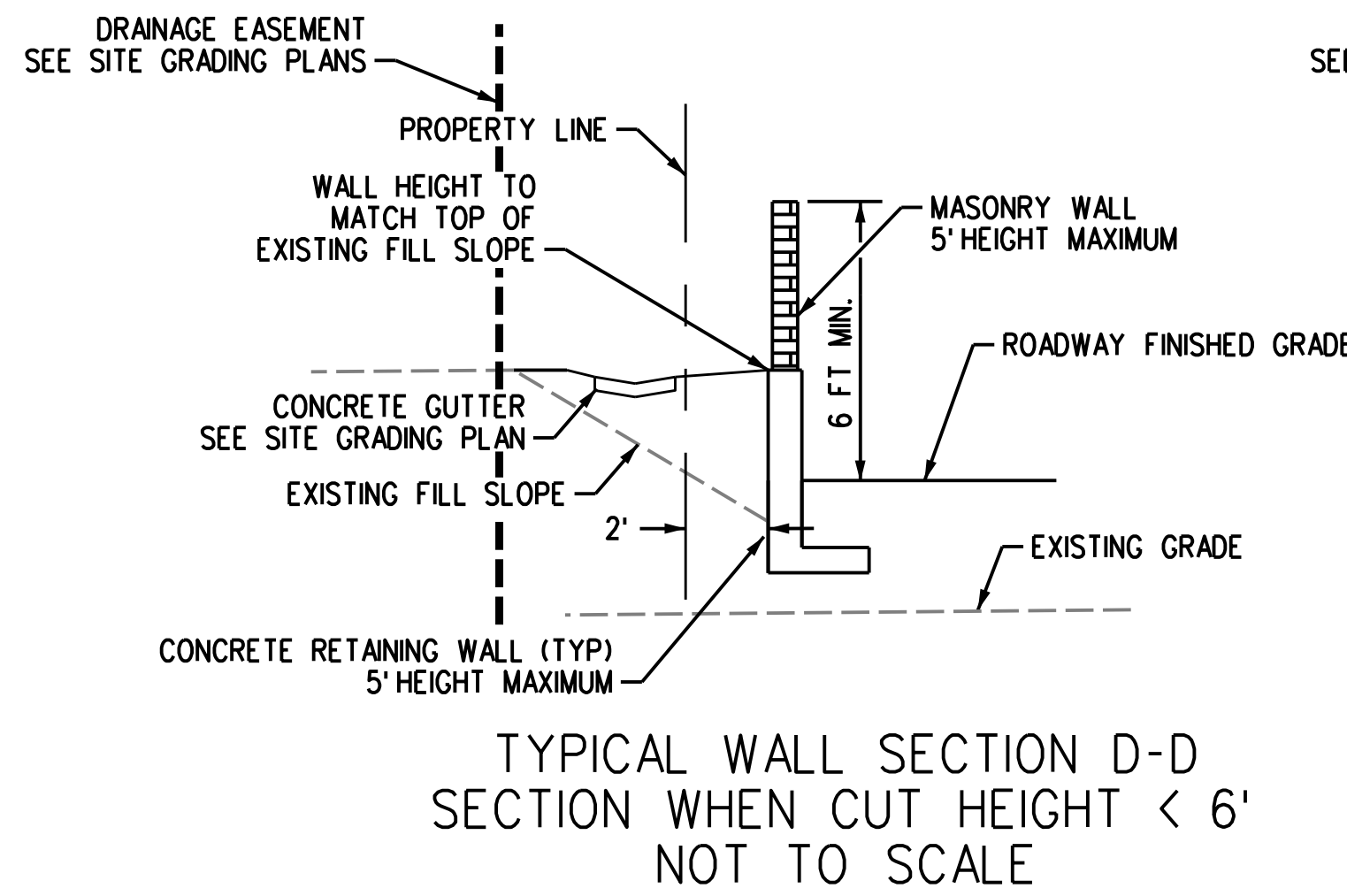
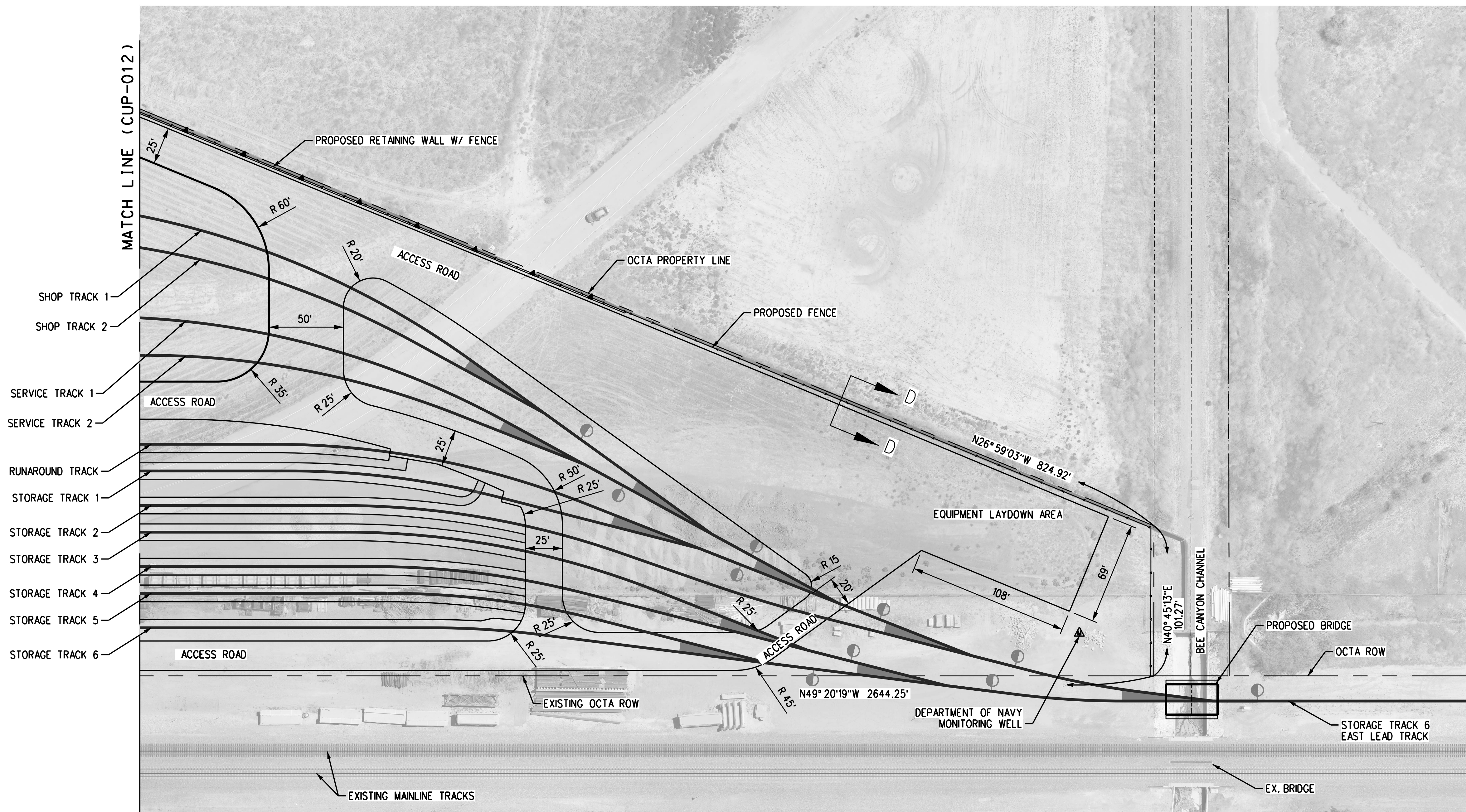
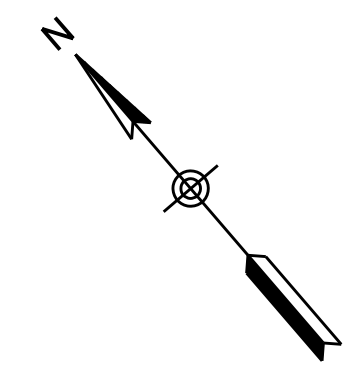


SUBMITTED: _____ PROJECT MANAGER
APPROVED: _____

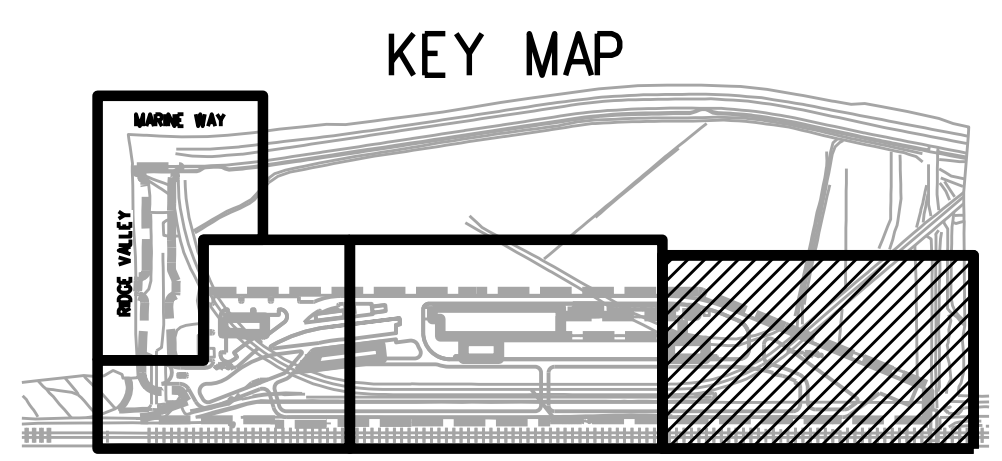
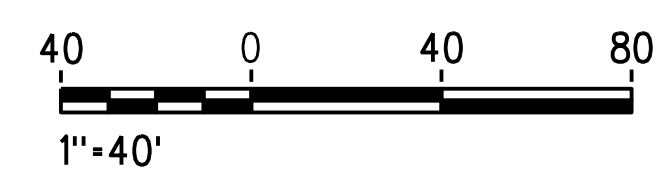
METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
PROPOSED SITE PLAN
SHEET 3 OF 4

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-012
REVISION	SHEET NO.
3	12
SCALE	AS SHOWN

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- NOTES:
1. REFER TO EXISTING SITE PLANS FOR PROPERTY OWNERS.
 2. SEE RETAINING WALL PLAN FOR PROPOSED RETAINING WALL.
 3. SEE FENCE PLANS FOR PROPOSED FENCE.



REV.	DATE	DESCRIPTION
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL

INFORMATION CONFIDENTIAL:
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DESIGNED BY	D. SMITH
DRAWN BY	D. SALAZAR
CHECKED BY	J. NEFF
APPROVED BY	M. FREEMAN
DATE	04/11/2022

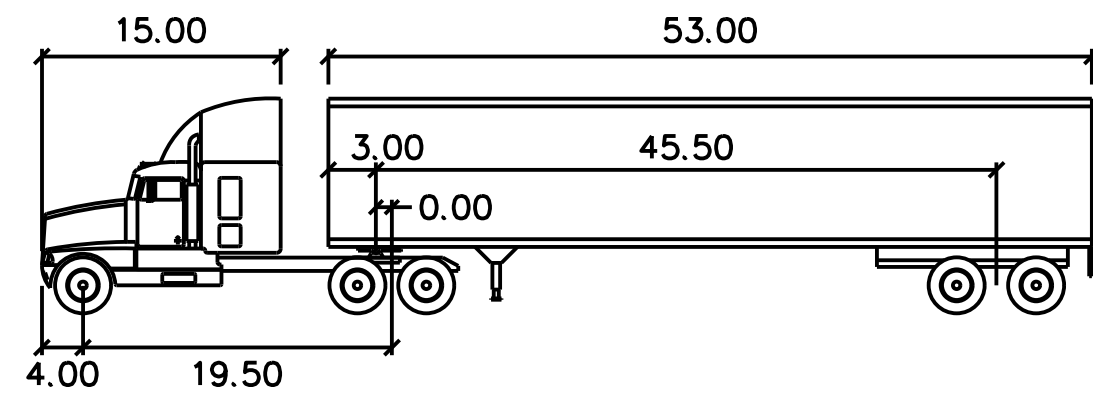
NOT FOR CONSTRUCTION

SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
PROPOSED SITE PLAN
SHEET 4 OF 4

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-013
REVISION	SHEET NO.
3	13
SCALE	AS SHOWN



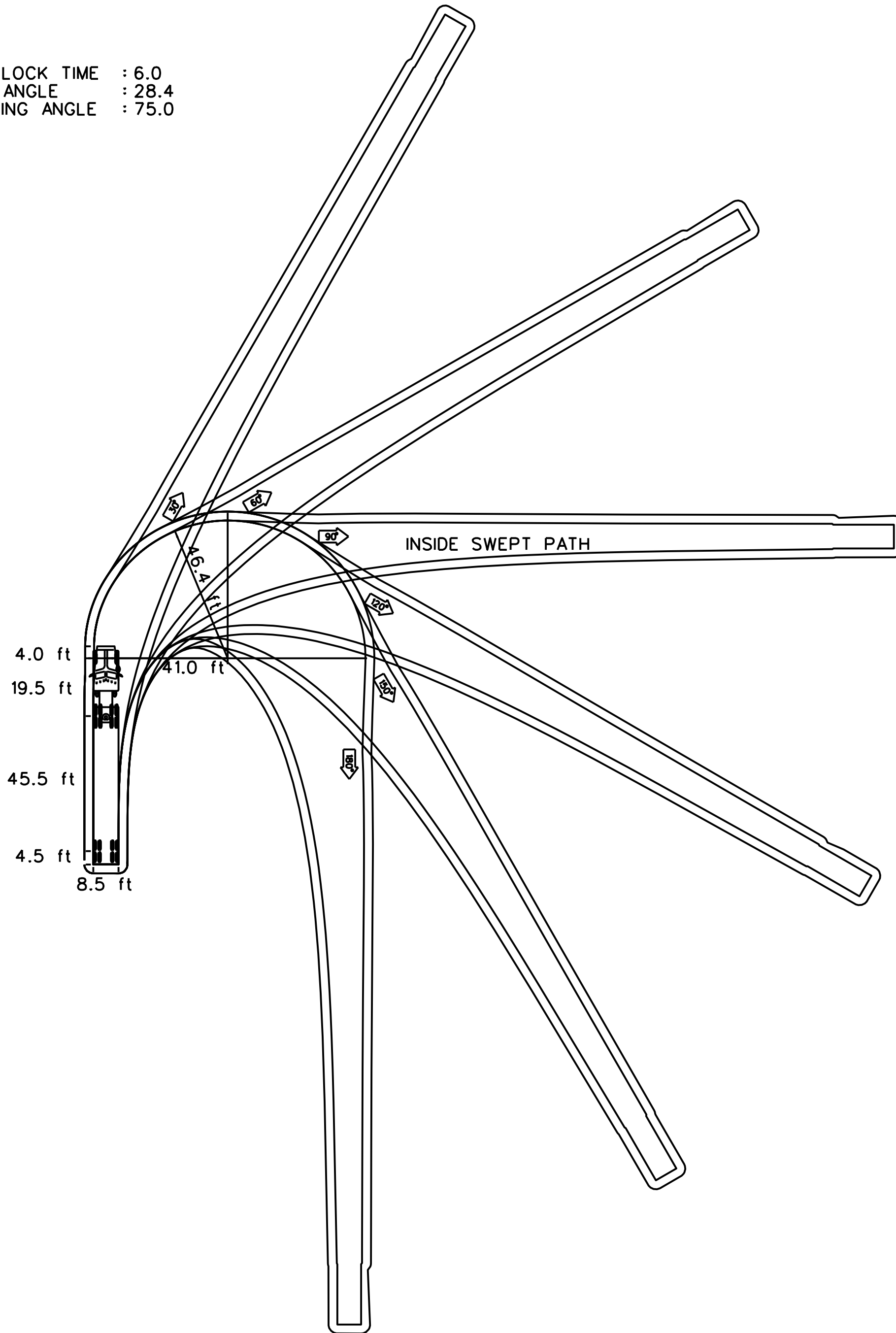
WB-67

	FEET	
TRACTOR WIDTH	: 8.00	LOCK TO LOCK TIME : 6.0
TRAILER WIDTH	: 8.50	STEERING ANGLE : 28.4
TRACTOR TRACK	: 8.00	ARTICULATING ANGLE : 75.0
TRAILER TRACK	: 8.50	

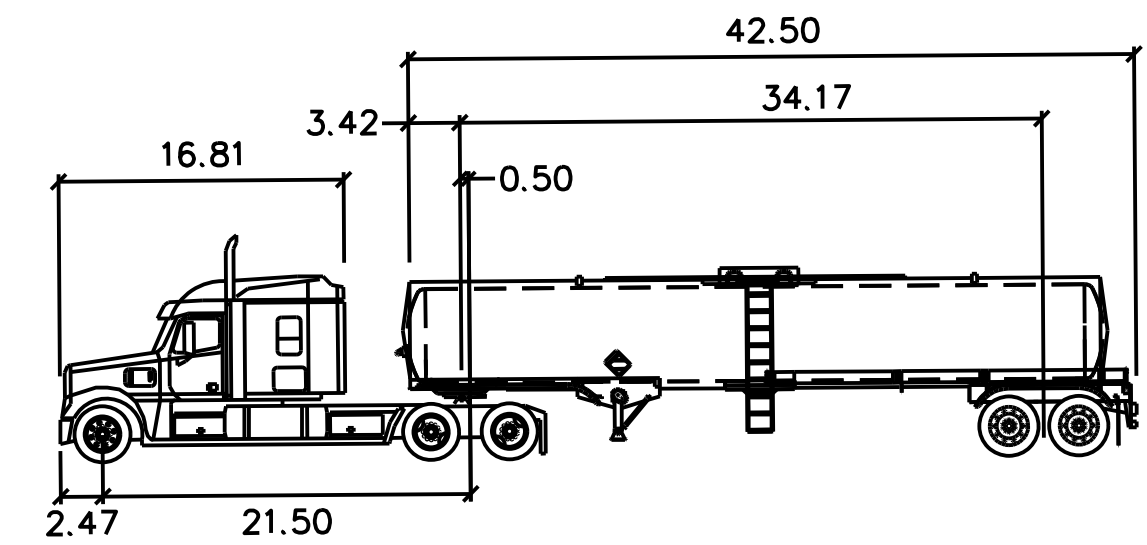
STEERING LOCK ANGLE = 28.4 deg.

ACHIEVED STEERING ANGLE:

30 deg. SWEEP ANGLE:	18.3 deg.
60 deg. SWEEP ANGLE:	24.7 deg.
90 deg. SWEEP ANGLE:	27.0 deg.
120 deg. SWEEP ANGLE:	27.9 deg.
150 deg. SWEEP ANGLE:	28.3 deg.
180 deg. SWEEP ANGLE:	28.4 deg.



WB-67 (AASHTO 2018)



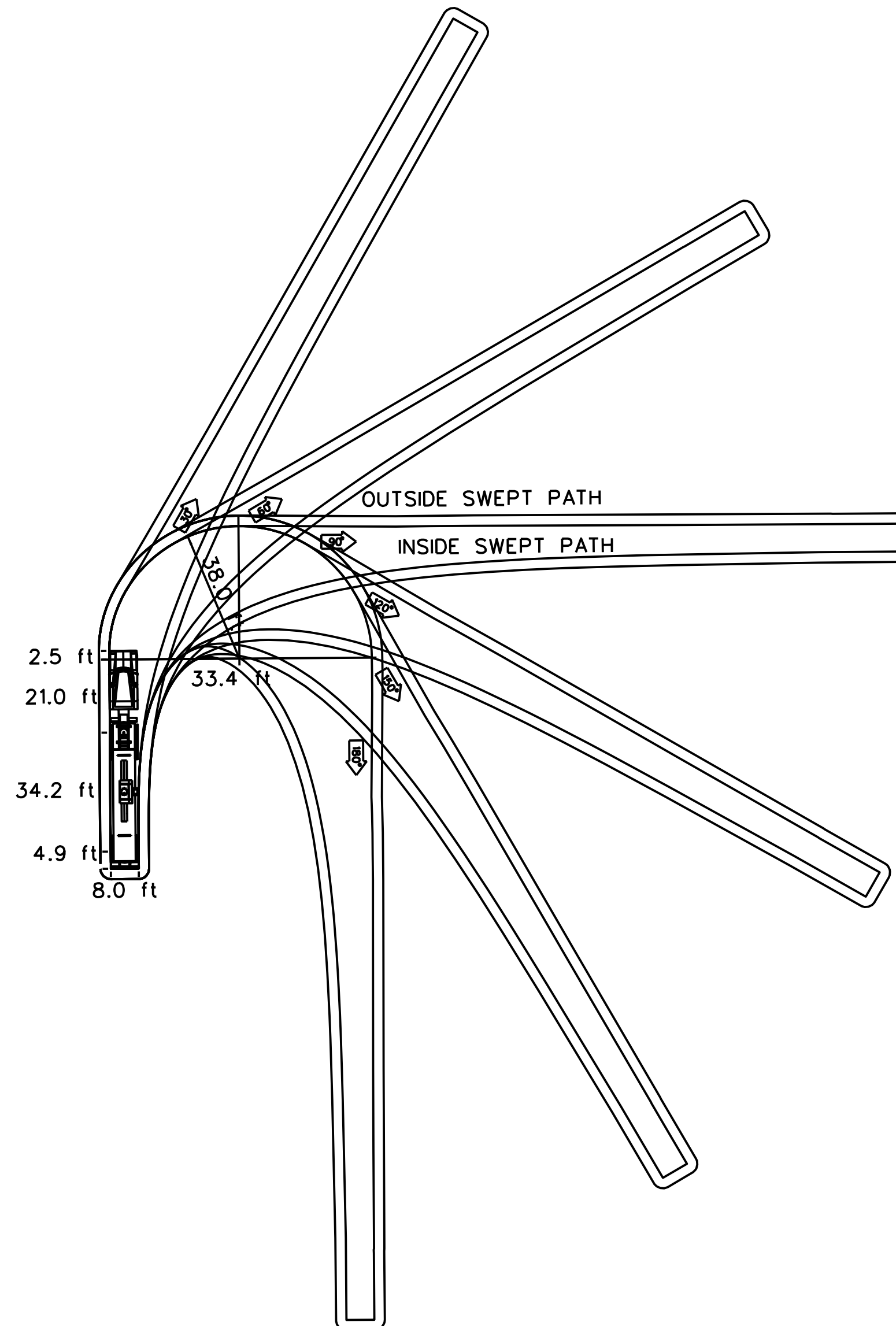
EVERGREEN TANK TRAILER

	FEET	
TRACTOR WIDTH	: 8.00	LOCK TO LOCK TIME : 6.0
TRAILER WIDTH	: 8.00	STEERING ANGLE : 40.1
TRACTOR TRACK	: 8.00	ARTICULATED ANGLE : 70.0
TRAILER TRACK	: 8.00	

STEERING LOCK ANGLE = 40.1 deg.

ACHIEVED STEERING ANGLE:

30 deg. SWEEP ANGLE:	20.6 deg.
60 deg. SWEEP ANGLE:	30.3 deg.
90 deg. SWEEP ANGLE:	35.0 deg.
120 deg. SWEEP ANGLE:	37.5 deg.
150 deg. SWEEP ANGLE:	38.8 deg.
180 deg. SWEEP ANGLE:	39.4 deg.



SINGLE TANKER TRUCK
EVERGREEN TANK TRAILER

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3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3			
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1			
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL			
REV.	DATE		BY	SUB.	APP.

INFORMATION CONFIDENTIAL:
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DESIGNED BY	D. SMITH
DRAWN BY	P. NGUYEN
CHECKED BY	J. NEFF
APPROVED BY	M. FREEMAN
DATE	04/11/2022

NOT
FOR
CONSTRUCTION

**METROLINK®**

 **Gannett Fleming**

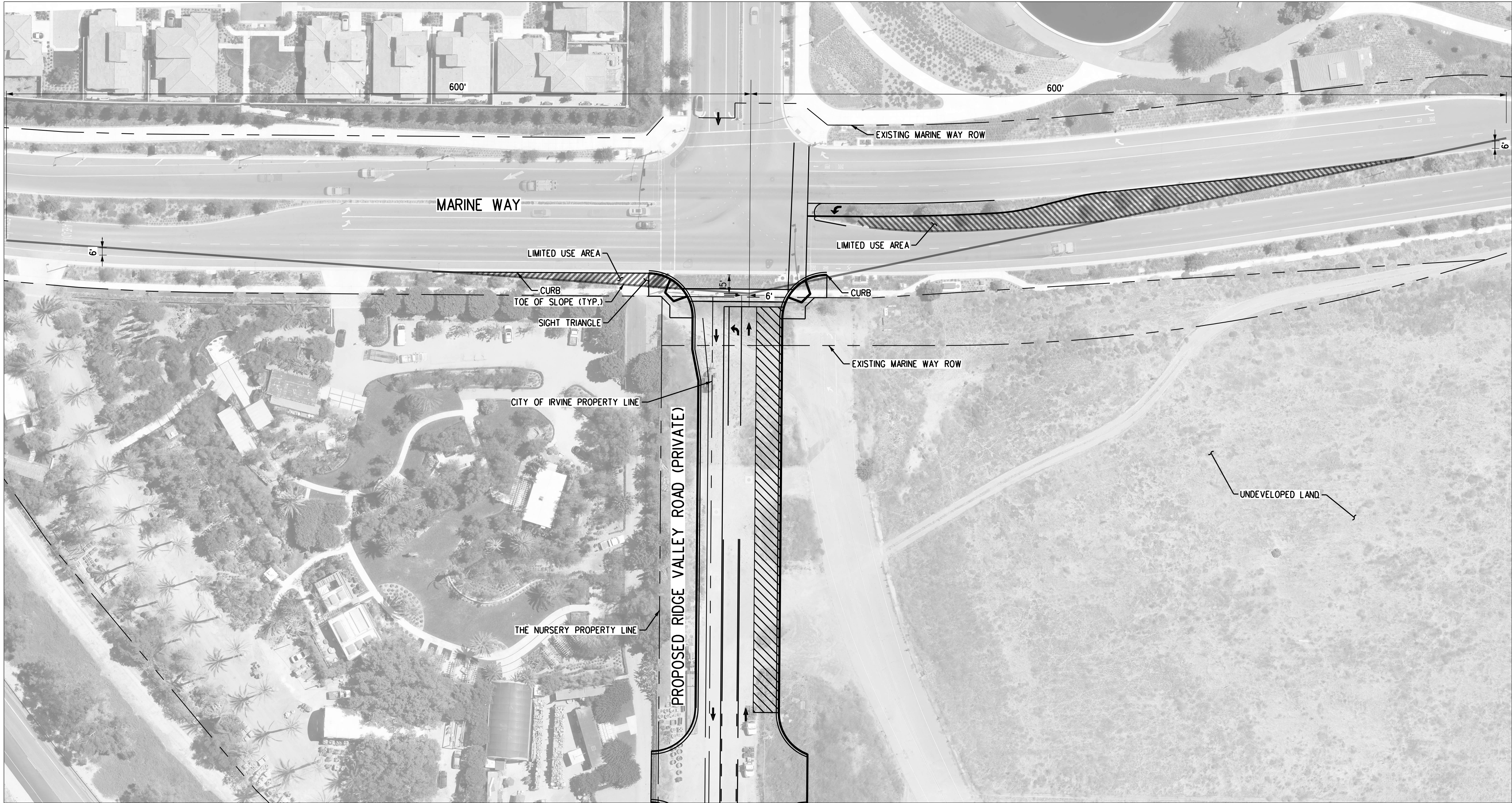
SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
GENERAL VEHICLE PROFILES
AND TURNING TEMPLATES

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-014
REVISION	SHEET NO.
3	14
SCALE	NTS

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NOTE:
SIGHT DISTANCE BASED ON
CITY OF IRVINE STANDARD DETAIL 403.



REV.	DATE	BY	SUB.	APP.
3	4/11/22			
2	01/10/22			
1	10/13/21			
0	6/30/21			

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DESIGNED BY	D. SMITH
DRAWN BY	P. NGUYEN
CHECKED BY	J. NEFF
APPROVED BY	M. FREEMAN
DATE	04/11/2022

NOT
FOR
CONSTRUCTION

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 **Gannett Fleming**

SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
LINE OF SIGHT SHEET

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-016
REVISION	SHEET NO.
3	16
SCALE	AS SHOWN

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LAND USE SUMMARY				
EXISTING:				
LAND USE (S)	SQ. FT. OR DUs	PARKING RATIO	SPACES REQUIRED	SPACES PROVIDED
EXISTING UNDEVELOPED LAND AND LAYDOWN YARD	0 SQ FT	N/A	N/A	N/A
TOTAL	0 SQ FT	-	-	-
PROPOSED:				
LAND USE (S)	SQ. FT. OR DUs	PARKING RATIO	SPACES REQUIRED	SPACES PROVIDED
RAIL VEHICLE MAINTENANCE FACILITY	47,877 SQ FT	0.18%	70	84 ③
TOTAL	47,887 SQ FT	-	-	-
		ALLOWED	PROPOSED	NUMBER OF STORIES
BUILDING COVERAGE (% OF SITE)		50%	10%	
BUILDING HEIGHT		50 FT.	48 FT.	1
SETBACKS:				
		ALLOWED	PROPOSED	
STREET		35 FT.	200 FT.	
BUILDING TO BUILDING		10 FT.	10 FT.	
SIDE		0 FT.	57 FT.	
REAR		0 FT.	37 FT.	
LANDSCAPING:				
		ALLOWED	PROPOSED	NUMBER OF PARKING LOT TREES
TOTAL SITE		15%	1% ①	
PARKING LOT		12%	12%	13

PARKING SUMMARY			
TYPE OF PROPOSED PARKING SPACES:			
	REQUIRED	PROVIDED	PERCENT OF TOTAL
STANDARD	61	74	88%
HANDICAPPED	4	4	4%
CARPOOL	4	4	4%
MOTORCYCLE	1	2	2%
TOTAL	70	84	100%
BICYCLE SPACES	10	10	-

BUILDING SUMMARY	
BUILDING/FACILITY/ITEM	GROSS SQUARE FOOTAGE ②
TRANSPORTATION BUILDING	7,495 SQ. FT.
TRAIN WASH BUILDING	11,110 SQ. FT.
MAINTENANCE BUILDING	40,392 SQ. FT.
MAINTENANCE BUILDING EXPANSION	27,880 SQ. FT.
UTILITY BUILDING	981 SQ. FT.
PUMP HOUSE	750 SQ. FT.
GUARD BOOTH	36 SQ. FT.
EQUIPMENT BOOTH	48 SQ. FT.
SAND SILOS (2 TOTAL)	576 SQ. FT.
TOTAL	89,268 SQ. FT.

- NOTE:
1.

RAILYARD AREAS ARE EXCLUDED FROM LANDSCAPE PERCENTAGE CALCULATIONS. AN ADMINISTRATIVE RELIEF REQUEST IS REQUIRED.
2.

SQUARE FOOTAGE, GROSS: THE NUMBER OF SQUARE FEET IN ALL FLOOR LEVELS OF A BUILDING, INCLUDING BELOW GRADE LEVELS AND PENTHOUSE SUITS, AS MEASURED FROM THE FINISHED INTERIOR FACE OF THE EXTERIOR WALLS, EXCLUDING COURTS. DEDUCTIONS MAY BE MADE FOR THE AREA OF PENETRATIONS FOR VENT AND ELEVATOR SHAFTS FOR ALL FLOORS ABOVE THE FLOOR IN WHICH THE VENT AND ELEVATOR SHAFT ORIGINATE. THE GROUND FLOOR WHERE THE VENT AND ELEVATOR SHAFT ORIGINATE IS INCLUDED IN THE GROSS SQUARE FOOTAGE. FOR STAIRS, EACH STEP AND EACH LANDING IS INCLUDED IN THE GROSS SQUARE FOOTAGE; HOWEVER, IN AN ENCLOSED STAIRWELL THE GROSS AREA FOOTAGE MAY GE MEASURED AS 50 PERCENT OF THE STAIRWELL PENETRATION FOR ALL FLOOR LEVELS ABOVE THE GROUND FLOOR. NO OTHER DEDUCTIONS OR EXCLUSIONS SHALL BE MADE BY REASON OF COLUMNS, STAIRS, ELEVATORS, ESCALATORS, OR OTHER INTERIOR CONSTRUCTION OR EQUIPMENT.
3.

TOTAL AVAILABLE PARKING SPACES INCLUDE STANDARD PARKING, ADA ACCESSIBLE PARKING, CARPOOL PARKING, AND MOTORCYCLE PARKING.

					INFORMATION CONFIDENTIAL: All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.	DESIGNED BY J. NEFF DRAWN BY J. NEFF CHECKED BY D. SMITH APPROVED BY M. FREEMAN DATE 04/11/2022	NOT FOR CONSTRUCTION
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3					
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2					
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1					
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL					
REV.	DATE			BY	SUB.	APP.	



SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
PARKING SUMMARY TABLE

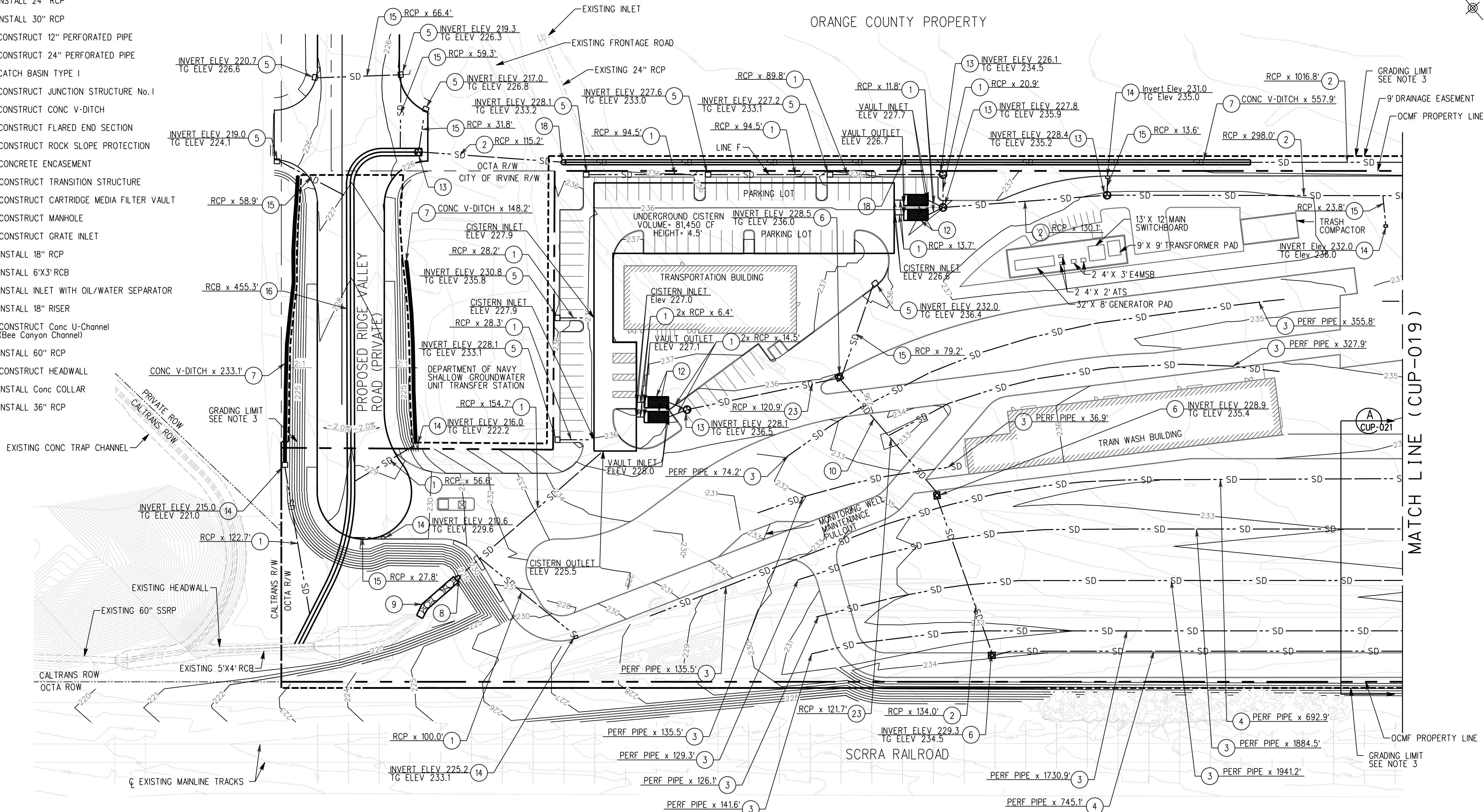
CASE NO. 00846471-PCPU	
CONTRACT NO. C91143	
DRAWING NO. CUP-017	
REVISION	SHEET NO.
3	17
SCALE NTS	

- NOTES:
1. FOR UTILITIES, SEE UTILITIES SHEETS.
 2. TRACK ALIGNMENT NOT SHOWN FOR CLARITY. FOR TRACK LOCATIONS, REFERENCE TRACK PLANS.
 3. MAINTENANCE AGREEMENT WITH COUNTY OF ORANGE.

CONSTRUCTION NOTES (STORM DRAIN)

1. INSTALL 24" RCP
2. INSTALL 30" RCP
3. CONSTRUCT 12" PERFORATED PIPE
4. CONSTRUCT 24" PERFORATED PIPE
5. CATCH BASIN TYPE I
6. CONSTRUCT JUNCTION STRUCTURE No.1
7. CONSTRUCT CONC V-DITCH
8. CONSTRUCT FLARED END SECTION
9. CONSTRUCT ROCK SLOPE PROTECTION
10. CONCRETE ENCASEMENT
11. CONSTRUCT TRANSITION STRUCTURE
12. CONSTRUCT CARTRIDGE MEDIA FILTER VAULT
13. CONSTRUCT MANHOLE
14. CONSTRUCT GRATE INLET
15. INSTALL 18" RCP
16. INSTALL 6'X3' RCB
17. INSTALL INLET WITH OIL/WATER SEPARATOR
18. INSTALL 18" RISER
19. CONSTRUCT Conc U-Channel (Bee Canyon Channel)
20. INSTALL 60" RCP
21. CONSTRUCT HEADWALL
22. INSTALL Conc COLLAR
23. INSTALL 36" RCP

- LEGEND:
- | | | | | | |
|--|------------------------|--|----------------------------|--|------------------------|
| | CARTRIDGE MEDIA FILTER | | OCMF PROPERTY LINE | | OCTA RIGHT OF WAY LINE |
| | ROCK SLOPE PROTECTION | | EXISTING DRAINAGE | | |
| | MANHOLE | | SD - STORM DRAIN LINE | | |
| | JUNCTION STRUCTURE | | LIMIT OF GRADING | | |
| | UNDERGROUND CISTERN | | CALTRANS RIGHT OF WAY LINE | | |



REV.	DATE	DESCRIPTION	BY	SUB.	APP.
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3			
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1			
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL			

INFORMATION CONFIDENTIAL:	DESIGNED BY:
All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.	MATTHEW SPARKS
	DRAWN BY:
	MATTHEW SPARKS
	CHECKED BY:
	JOSEPH CARBAJAL
	APPROVED BY:
	MICHAEL HYNES
	DATE:
	04/11/2022

NOT
FOR
CONSTRUCTION

METROLINK

Gannett Fleming

WKE

SUBMITTED: PROJECT MANAGER

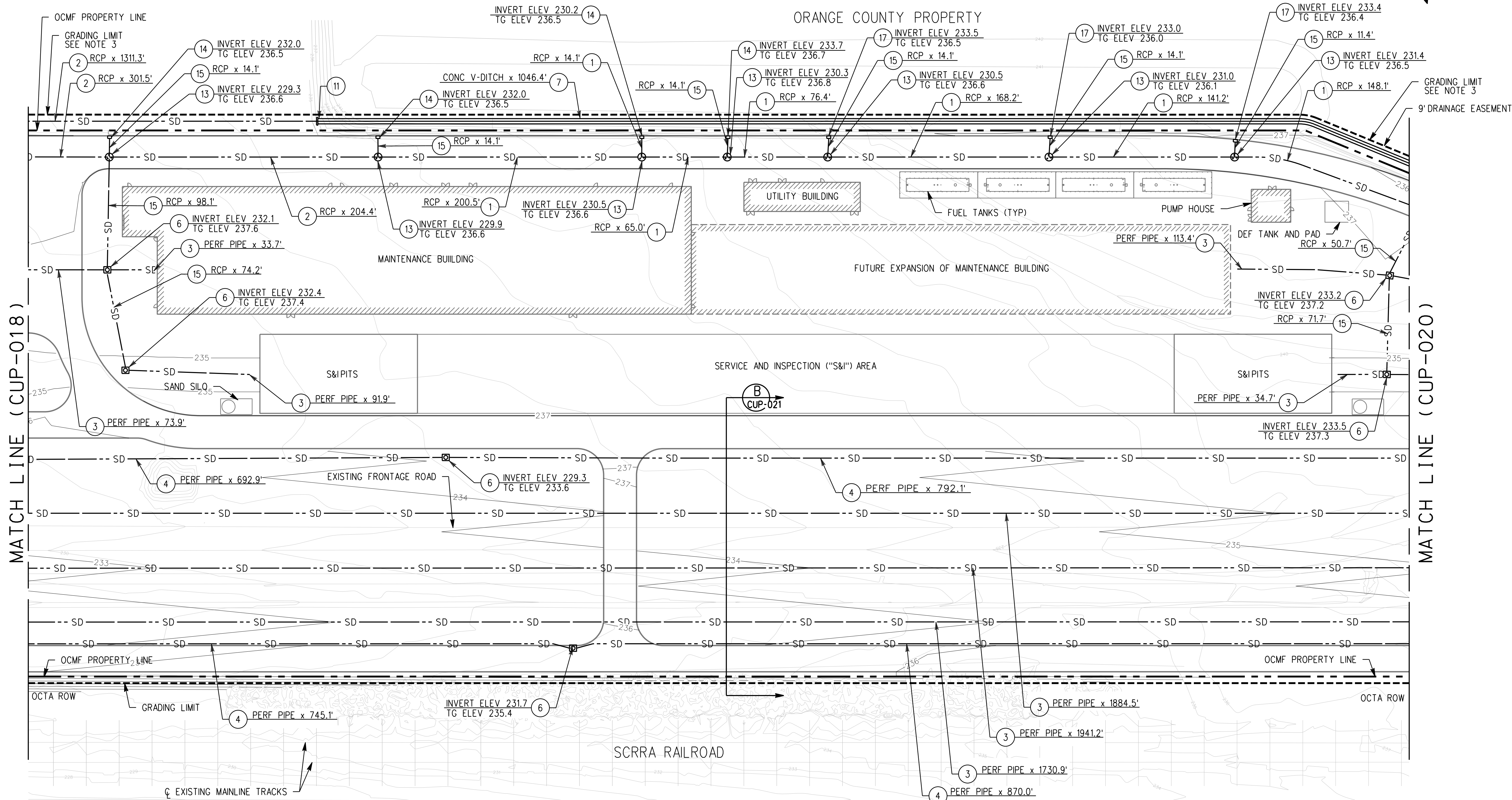
APPROVED:

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
SITE GRADING PLAN
SHEET 1 OF 3

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-018
REVISION	3
SHEET NO.	18
SCALE	AS SHOWN

NOTES:
1. FOR UTILITIES, SEE UTILITIES SHEETS.
2. TRACK ALIGNMENT NOT SHOWN FOR CLARITY. FOR TRACK LOCATIONS, REFERENCE TRACK PLANS.
3. MAINTENANCE AGREEMENT WITH COUNTY OF ORANGE.
CONSTRUCTION NOTES (STORM DRAIN)

- | | | | |
|--------------------------------------|--|--|---|
| 1. INSTALL 24" RCP | 7. CONSTRUCT CONC V-DITCH | 13. CONSTRUCT MANHOLE | 19. CONSTRUCT CONC U-CHANNEL (BEE CANYON CHANNEL) |
| 2. INSTALL 30" RCP | 8. CONSTRUCT FLARED END SECTION | 14. CONSTRUCT GRATE INLET | 20. INSTALL 60" RCP |
| 3. CONSTRUCT 12" PERFORATED PIPE | 9. CONSTRUCT ROCK SLOPE PROTECTION | 15. INSTALL 18" RCP | 21. CONSTRUCT HEADWALL |
| 4. CONSTRUCT 24" PERFORATED PIPE | 10. CONCRETE ENCASEMENT | 16. INSTALL 6'X3' RCB | 22. INSTALL CONC COLLAR |
| 5. CATCH BASIN TYPE I | 11. CONSTRUCT TRANSITION STRUCTURE | 17. INSTALL INLET WITH OIL/WATER SEPARATOR | 23. INSTALL 36" RCP |
| 6. CONSTRUCT JUNCTION STRUCTURE No.1 | 12. CONSTRUCT CARTRIDGE MEDIA FILTER VAULT | 18. INSTALL 18" RISER | |



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REV.	DATE	DESCRIPTION	BY	SUB.	APP.
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3			
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1			
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL			

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---	---

NOT
FOR
CONSTRUCTION



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Gannett Fleming

WKE

SUBMITTED: _____
PROJECT MANAGER

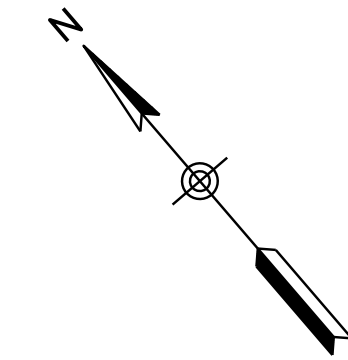
APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
SITE GRADING PLAN
SHEET 2 OF 3

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-019
REVISION	3
SHEET NO.	19
SCALE	AS SHOWN

1. FOR UTILITIES, SEE UTILITIES SHEETS.
2. TRACK ALIGNMENT NOT SHOWN FOR CLARITY. FOR TRACK LOCATIONS, REFERENCE TRACK PLANS.
3. MAINTENANCE AGREEMENT WITH COUNTY OF ORANGE.

1	INSTALL 24" RCP	7	CONSTRUCT CONC V-DITCH	13	CONSTRUCT MANHOLE	19	CONSTRUCT CONC U-CHANNEL (BEE CANYON CHANNEL)
2	INSTALL 30" RCP	8	CONSTRUCT FLARED END SECTION	14	CONSTRUCT GRATE INLET	20	INSTALL 60" RCP
3	CONSTRUCT 12" PERFORATED PIPE	9	CONSTRUCT ROCK SLOPE PROTECTION	15	INSTALL 18" RCP	21	CONSTRUCT HEADWALL
4	CONSTRUCT 24" PERFORATED PIPE	10	CONCRETE ENCASEMENT	16	INSTALL 6'X3' RCB	22	INSTALL CONC COLLAR
5	CATCH BASIN TYPE I	11	CONSTRUCT TRANSITION STRUCTURE	17	INSTALL INLET WITH OIL/WATER SEPARATOR	23	INSTALL 36" RCP
6	CONSTRUCT JUNCTION STRUCTURE No. I	12	CONSTRUCT CARTRIDGE MEDIA FILTER VAULT	18	INSTALL 18" RISER		

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FOR
CONSTRUCTION



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Gannett Fleming



SUBMITTED: _____
PROJECT MANAGER

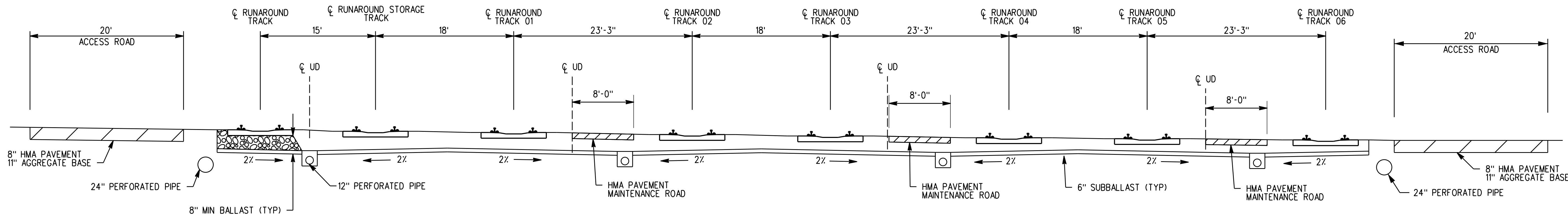
APPROVED:

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
SITE GRADING PLAN
SHEET 3 OF 3

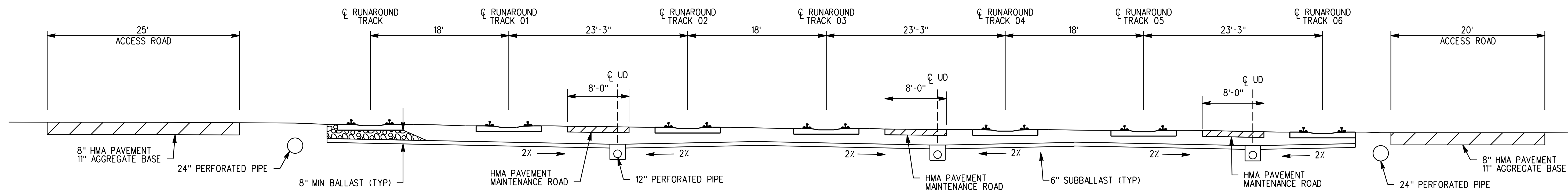
CASE NO. 00846471-PCPU	
CONTRACT NO. C91143	
DRAWING NO. CUP-020	
REVISION 3	SHEET NO. 20
SCALE AS SHOWN	

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SECTION A



SECTION B

REV.	DATE	DESCRIPTION
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL

INFORMATION CONFIDENTIAL:
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DESIGNED BY
MATTHEW SPARKS
DRAWN BY
MATTHEW SPARKS
CHECKED BY
JOSEPH CARBAJAL
APPROVED BY
MICHAEL HYNES
DATE
04/11/2022

NOT
FOR
CONSTRUCTION



METROLINK®



Gannett Fleming



SUBMITTED: _____
PROJECT MANAGER

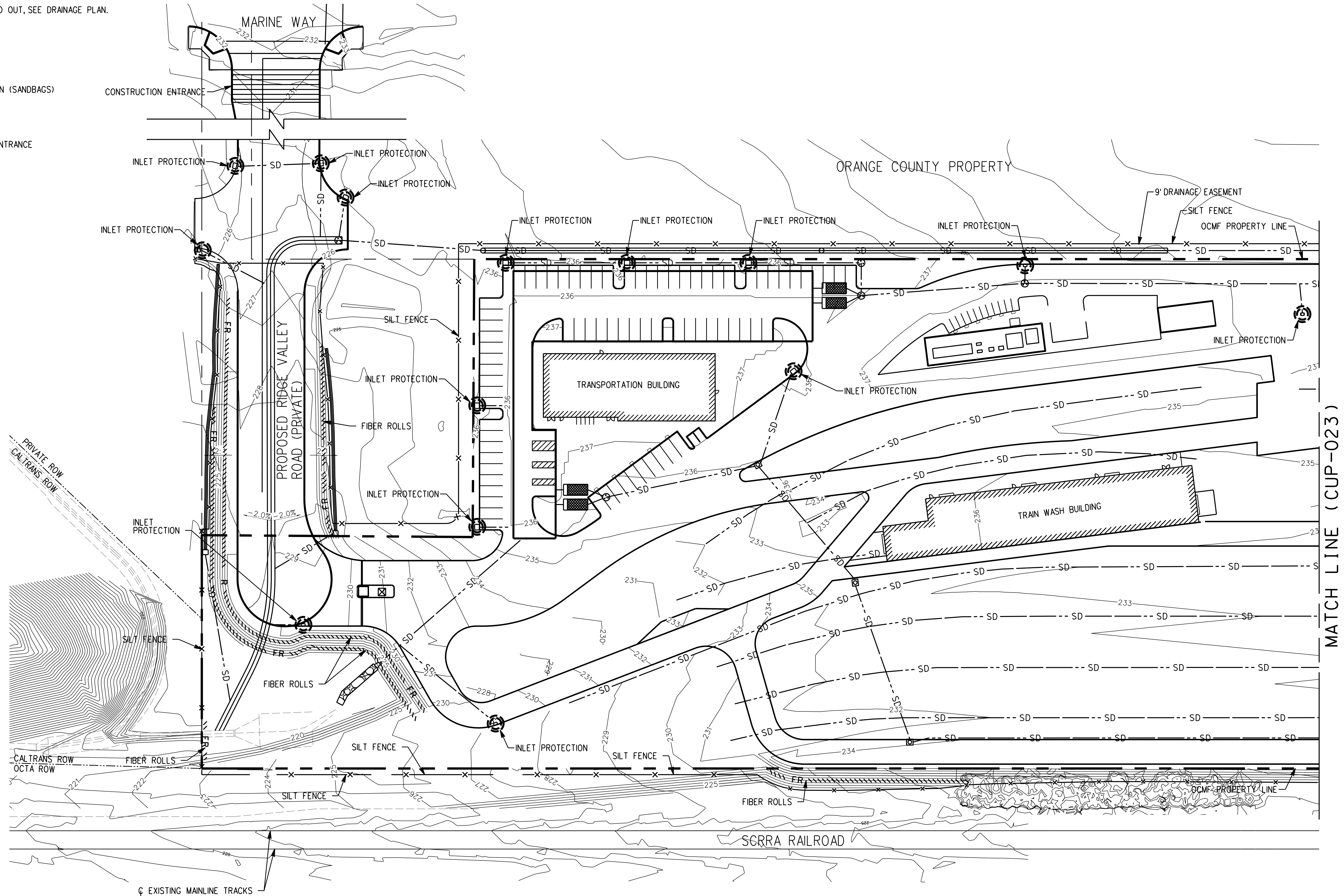
APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
TRACK CROSS SECTION

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-021
REVISION	3
SHEET NO.	21
SCALE	AS SHOWN

NOTES:
1. FOR ITEMS NOT CALLED OUT, SEE DRAINAGE PLAN.

- LEGEND:
- INLET PROTECTION (SANDBAGS)
 - SILT FENCE
 - FIBER ROLLS
 - CONSTRUCTION ENTRANCE



REV.	DATE	DESCRIPTION
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL

INFORMATION CONFIDENTIAL:
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DESIGNED BY
MATTHEW SPARKS
DRAWN BY
MATTHEW SPARKS
CHECKED BY
JOSEPH CARBAJAL
APPROVED BY
MICHAEL HYNES
DATE
04/11/2022

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PROJECT MANAGER

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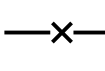

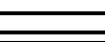
METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
EROSION CONTROL PLAN
SHEET 1 OF 3

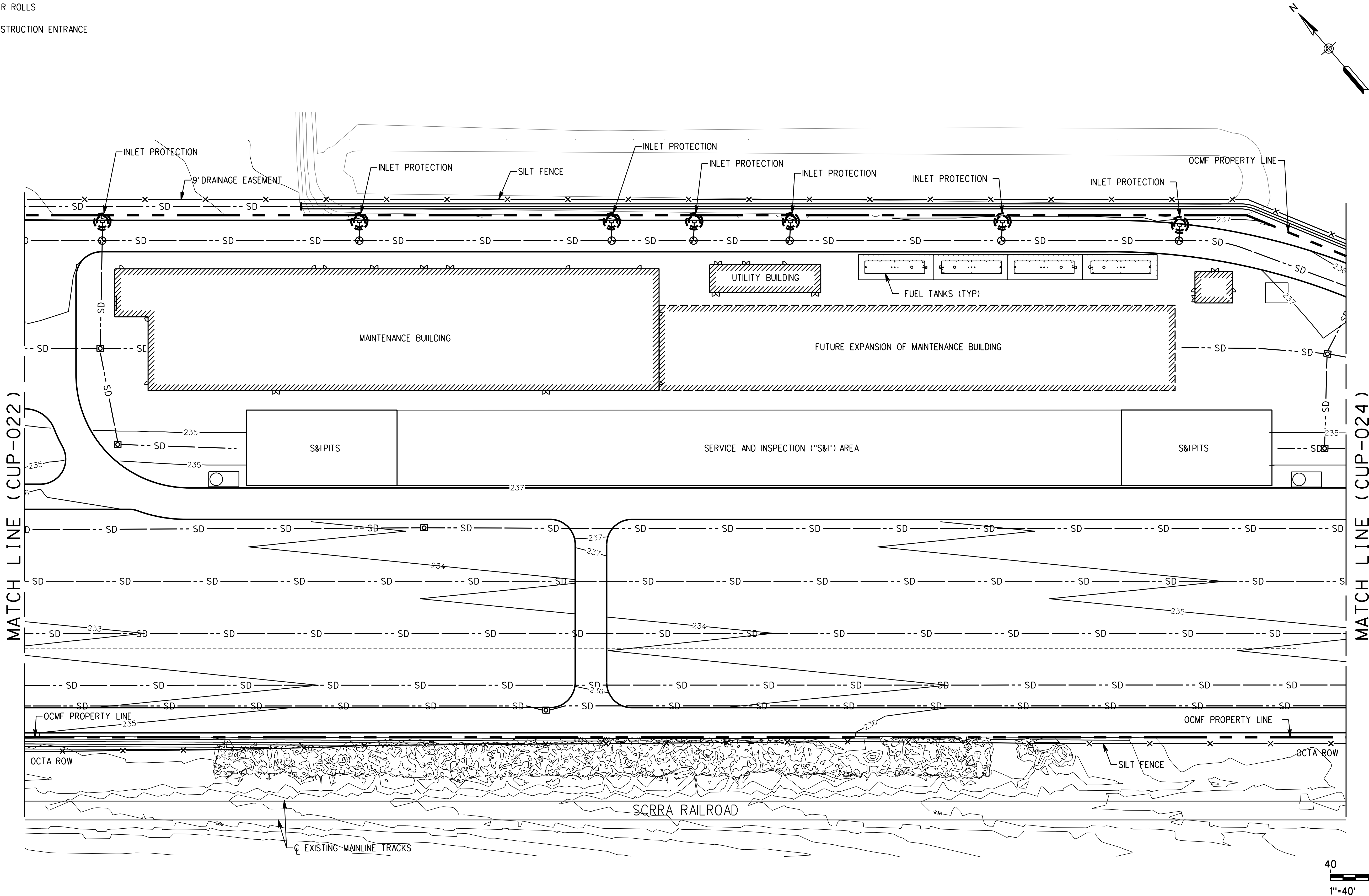
CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-022
REVISION	3
SHEET NO.	22
SCALE	AS SHOWN

NOTES:

1. FOR ITEMS NOT CALLED OUT, SEE DRAINAGE PLAN.

LEGEND:

-  INLET PROTECTION (SANDBAGS)
-  SILT FENCE
-  FIBER ROLLS
-  CONSTRUCTION ENTRANCE



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REV.	DATE	BY	SUB.	APP.
3	4/11/22			
2	01/10/22			
1	10/13/21			
0	6/30/21			

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JOSEPH CARBAJAL
APPROVED BY
MICHAEL HYNES
DATE
04/11/2022

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CONSTRUCTION

**METROLINK**





SUBMITTED: _____
PROJECT MANAGER

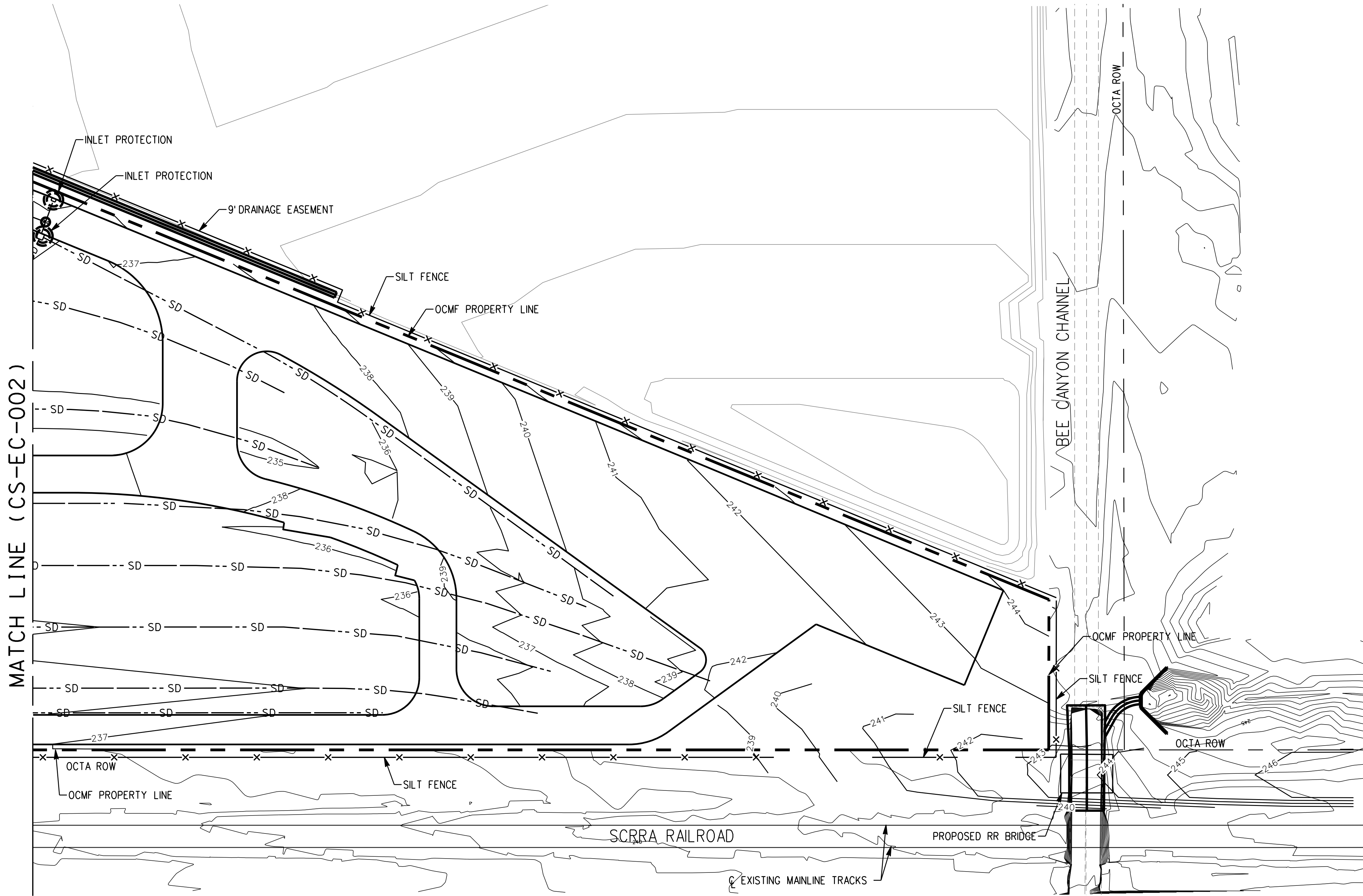
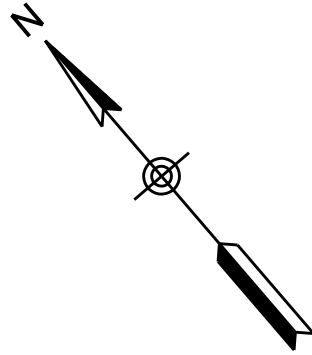
APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
EROSION CONTROL PLAN
SHEET 2 OF 3

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-023
REVISION	SHEET NO.
3	23
SCALE	AS SHOWN

NOTES:
1. FOR ITEMS NOT CALLED OUT, SEE DRAINAGE PLAN.

- LEGEND:
-  INLET PROTECTION (SANDBAGS)
 -  SILT FENCE
 -  FIBER ROLLS
 -  CONSTRUCTION ENTRANCE



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1	10/13/21			
0	6/30/21			

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DRAWN BY
MATTHEW SPARKS
CHECKED BY
JOSEPH CARBAJAL
APPROVED BY
MICHAEL HYNES
DATE
04/11/2022

NOT
FOR
CONSTRUCTION

**METROLINK****Gannett Fleming****WKE**

SUBMITTED: _____
PROJECT MANAGER

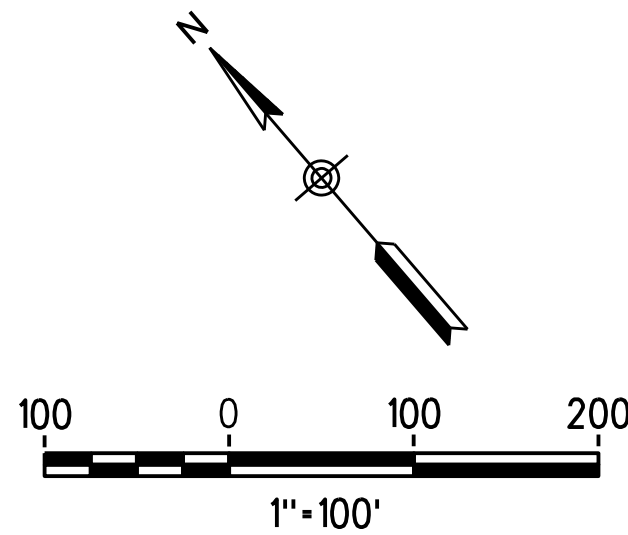
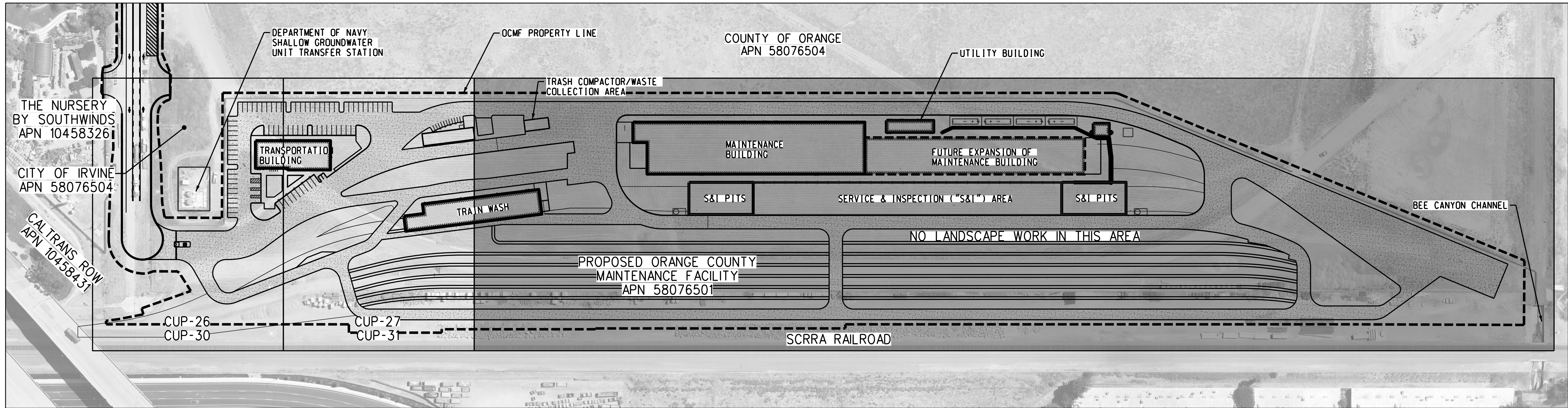
APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
EROSION CONTROL PLAN
SHEET 3 OF 3

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-024
REVISION	3
SHEET NO.	24
SCALE	AS SHOWN

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LEGEND	
-----	PROJECT LIMITS



REV.	DATE	DESCRIPTION	BY	SUB.	APP.
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3			
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1			
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DESIGNED BY
J. AUSTIN
DRAWN BY
S. BOUP., D. FEE
CHECKED BY
A. CARDENAS
APPROVED BY
-
DATE
04/11/2022

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FOR
CONSTRUCTION

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 **Gannett Fleming**

 **AECOM**

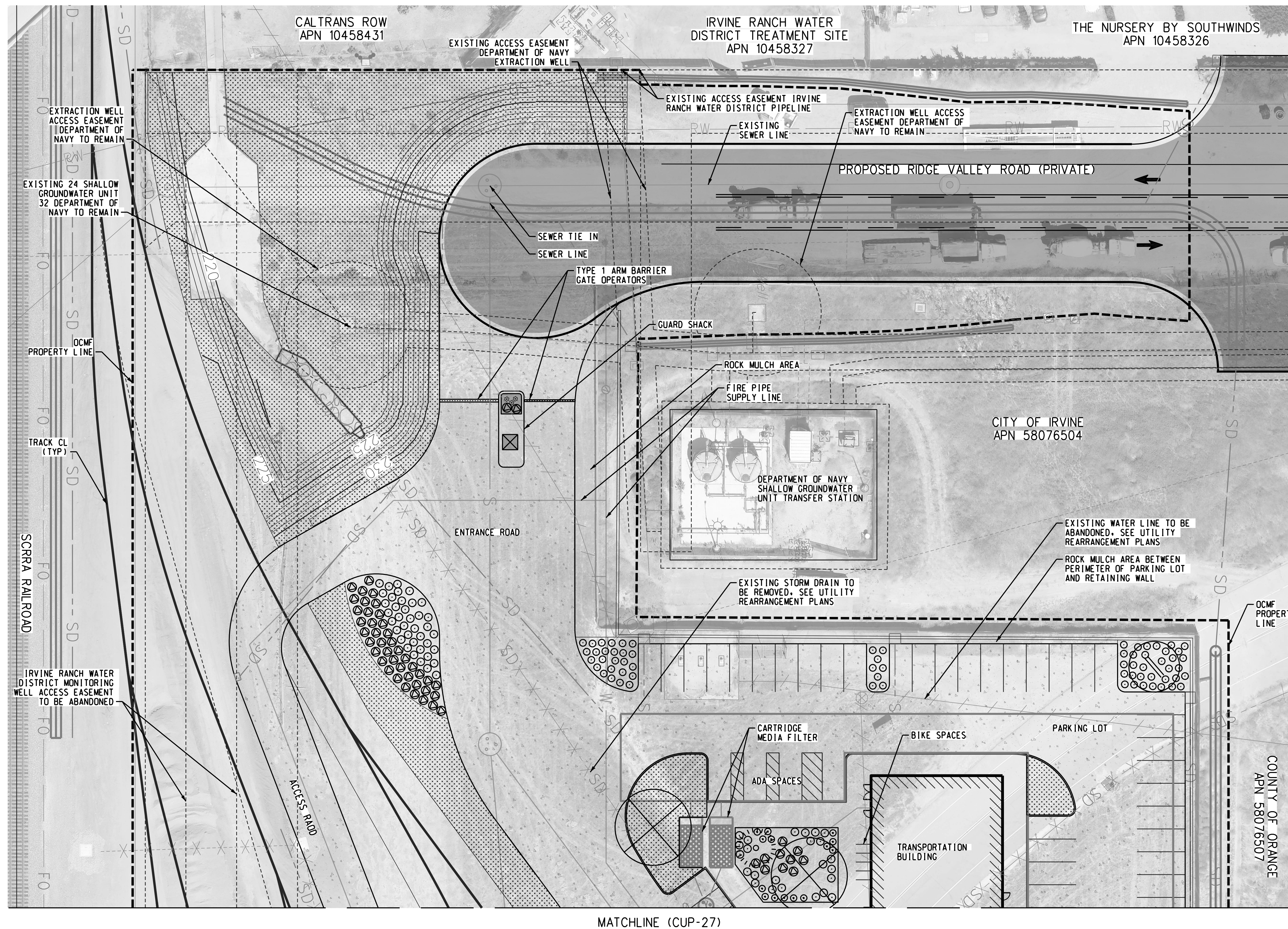
SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT

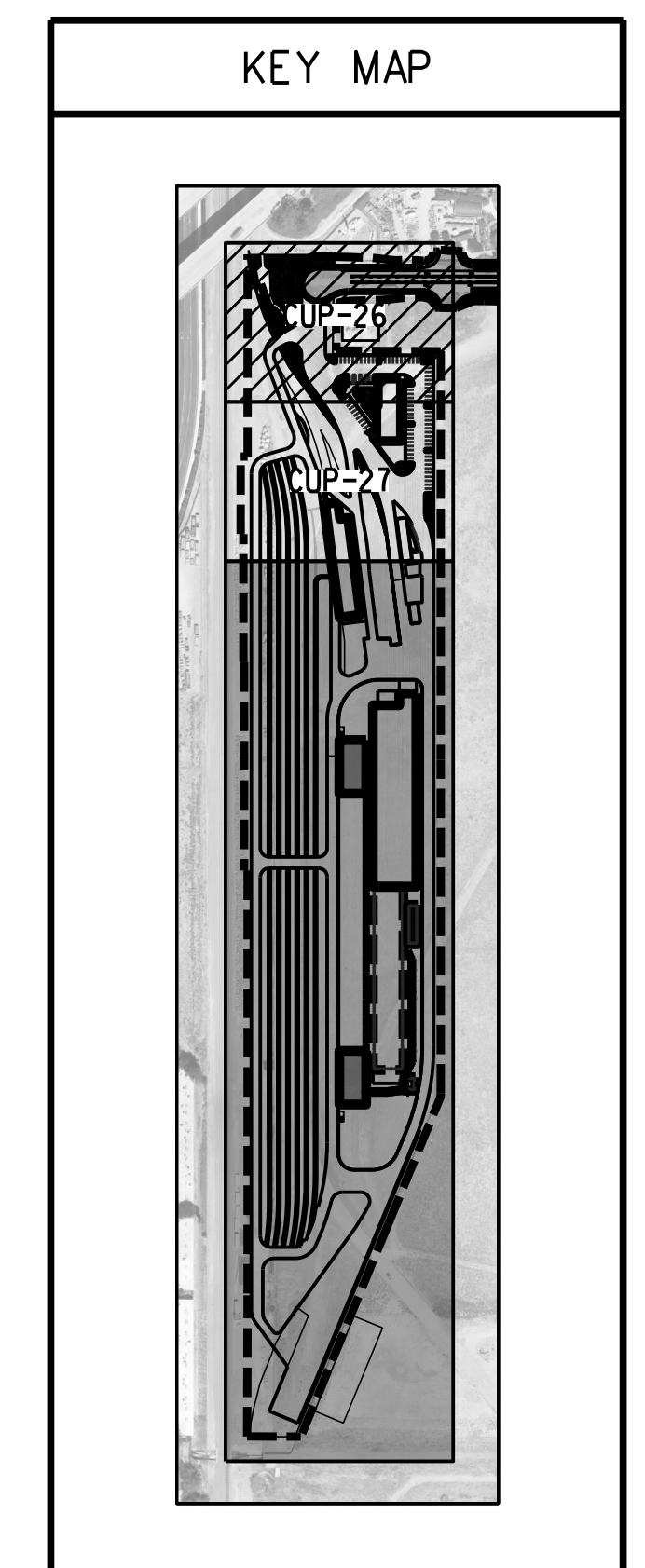
LANDSCAPE AND IRRIGATION - KEY MAP

CASE NO. 00846471-PCPU	
CONTRACT NO. C91143	
DRAWING NO. CUP-25	
REVISION 3	SHEET NO. 25
SCALE HORIZ 1"=100'	



LEGEND	
-----	PROJECT LIMITS

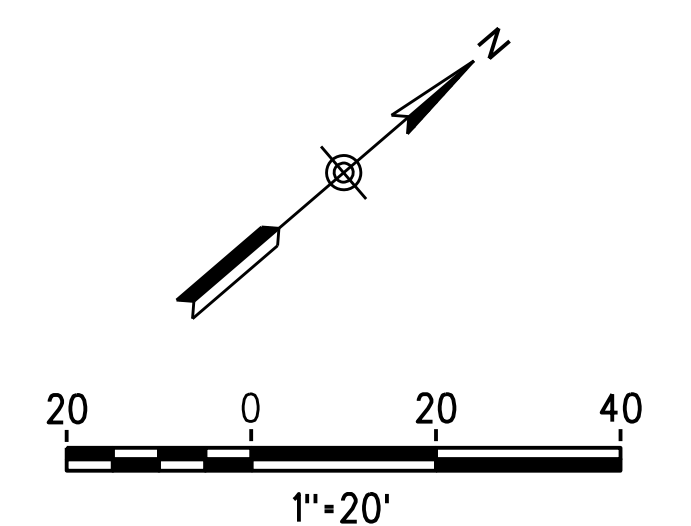
PROJECT LIMITS



- NOTE:

1. SEE PLANTING NOTES AND LEGEND FOR TREES AND SHRUB SPECIES.
2. INSTALL 3/4" ROCK MULCH IN PLANTING AREAS AND AS INDICATED ON PLANS.

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PLANTING AREAS AND AS INDICATED ON
PLANS.



1''=20'

										INFORMATION CONFIDENTIAL:	DESIGNED BY	J. AUSTIN
										All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.	DRAWN BY	S. BOUP., D. FEE
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3									CHECKED BY	A. CARDENAS
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2									APPROVED BY	-
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1									DATE	04/11/2022
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL										
REV.	DATE							BY	SUB	APP.		

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FOR
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Gannett Fleming
AECOM

SUBMITTED: _____
PROJECT MANAGER

APPROVED:

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT

LANDSCAPE PLANS 1

CASE NO. 00846471-PCPU	
CONTRACT NO. C91143	
DRAWING NO. CUP-26	
REVISION 3	SHEET NO. 26
SCALE HORIZ 1"=20'	

CONTRACT NO.	C91143
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DRAWING NO. CUP-26

REVISION	SHEET NO.
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REVISION	SHEET NO.
3	26

SCALE
HORIZ 1"=20'

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REV.	DATE	BY	SUB.	APP.
3	4/11/22			
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0	6/30/21			

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Gannett Fleming

AECOM

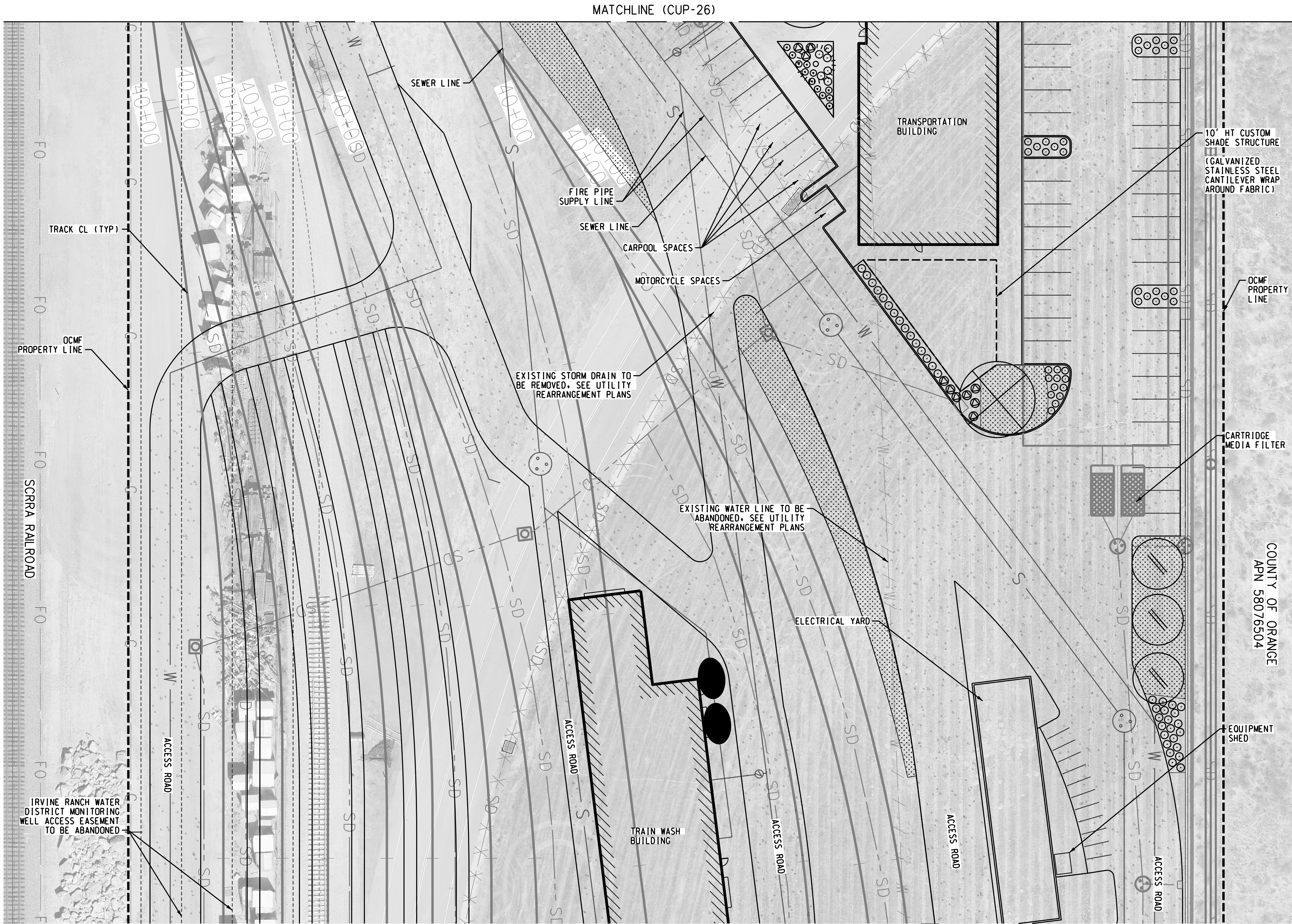
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PROJECT MANAGER

APPROVED: _____

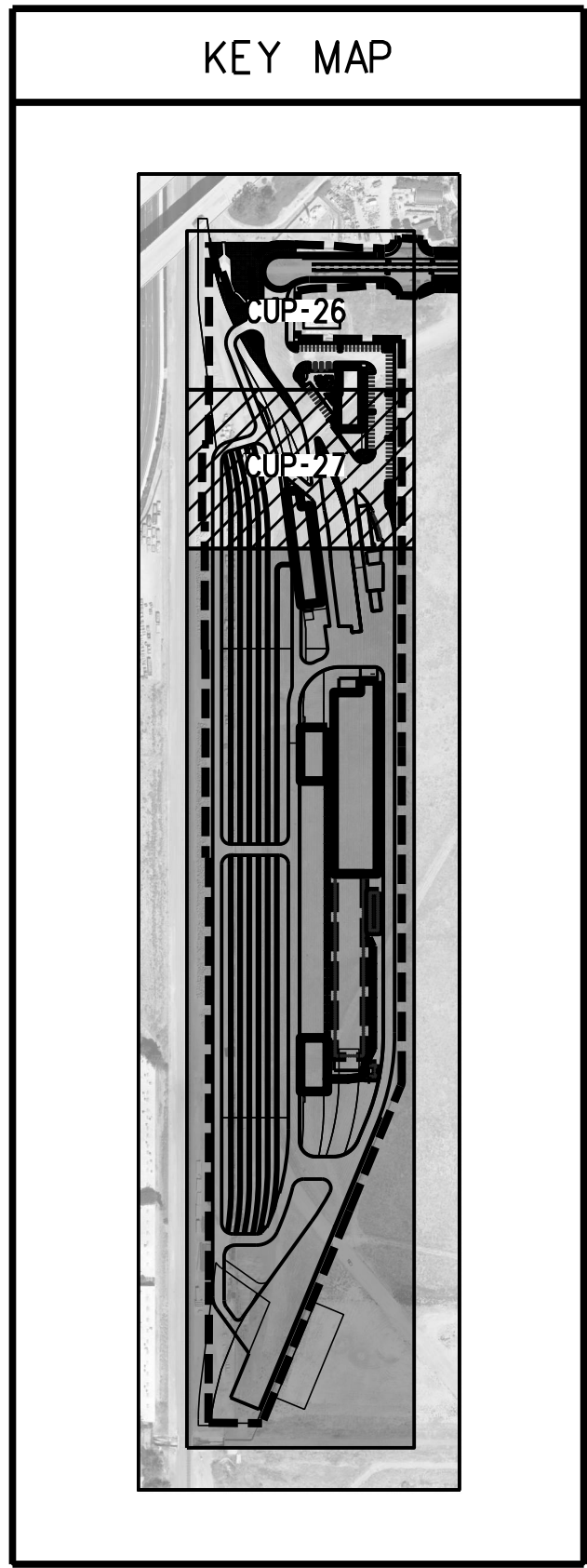
METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT

LANDSCAPE PLANS 2

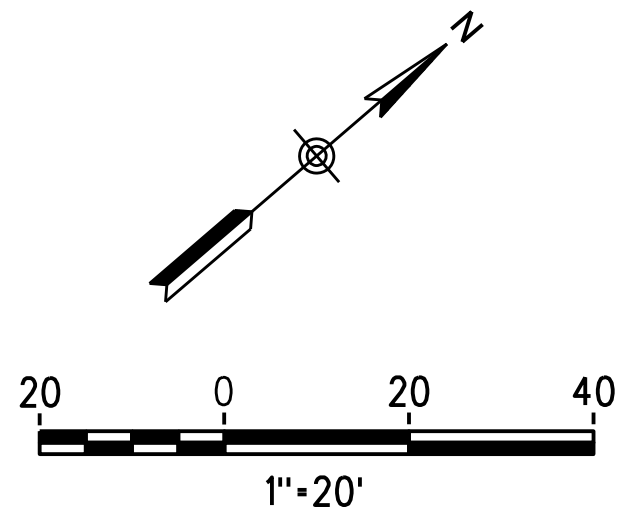
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CONTRACT NO.	C91143
DRAWING NO.	CUP-27
REVISION	SHEET NO.
3	27
SCALE	HORIZ 1"=20'



LEGEND	
---	PROJECT LIMITS



- NOTE:
- SEE PLANTING NOTES AND LEGEND FOR TREES AND SHRUB SPECIES.
 - INSTALL 3/4" ROCK MULCH IN PLANTING AREAS AND AS INDICATED ON PLANS.



GENERAL NOTES

1. CONTRACTOR SHALL REVIEW PLANTING INSTALLATION DETAILS AND NOTES PRIOR TO BEGINNING WORK.
2. ALL WORK WILL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF IRVINE, OR OTHER GOVERNING AGENCIES.
3. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES IN THE EXISTING CONDITIONS OR WITHIN THE PLANS PRIOR TO BEGINNING WORK.
4. OWNER'S REPRESENTATIVE SHALL APPROVE ALL FINISH GRADING PRIOR TO PLACEMENT OF ANY PLANT MATERIAL.
5. CONFIRM THE LOCATION OF EXISTING UTILITIES BEFORE THE START OF ANY WORK. CONTACT ALL APPROPRIATE UTILITY SERVICES INCLUDING UNDERGROUND SERVICE ALERT (U.S.A).

LAYOUT NOTES

1. REFER TO CIVIL DRAWINGS FOR GRADING, DRAINAGE AND UTILITIES.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES AND CONDITIONS PRIOR TO COMMENCING WORK AND SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
3. WHERE 'VERIFY' OR 'FIELD VERIFY' IS USED IN CONJUNCTION WITH A DIMENSION, THE CONTRACTOR SHALL VERIFY THE MEASUREMENT PRIOR TO BEGINNING THE WORK. IMMEDIATELY BRING DISCREPANCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
4. DIMENSIONS ARE TAKEN FROM FACE OF BUILDING, FACE OF CURB OR WALL, OR PROPERTY LINE UNLESS OTHERWISE NOTED.
5. ALL LANDSCAPE TREATMENTS ADJACENT TO PAVEMENT SHALL BE 1" BELOW FINISH PAVEMENT. MOUNDED OR SLOPED LANDSCAPING SHALL INCORPORATE INFILTRATION TRENCHES AT THE TOE OF THE SLOPE FOR RETENTION OF IRRIGATION WATER AND 2-YEAR DESIGN STORM EVENTS.

TREE LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SIZE HT. x WT.	SPACING	WUCOLS	DETAILS
	PARKINSONIA x 'DESERT MUSEUM'	DESERT MUSEUM PALO VERDE	24" BOX	20' x 20'	AS SHOWN	VERY LOW	CUP-29; DETAIL 4
	QUERCUS ILEX	HOLLY OAK	24" BOX	50' x 50'	AS SHOWN	LOW	CUP-29; DETAIL 4
	SEARSIA LANCEA	AFRICAN SUMAC	24" BOX	25' x 30'	AS SHOWN	LOW	CUP-29; DETAIL 4

GROUNDCOVER AND SHRUB LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SIZE HT. x WT.	SPACING	WUCOLS	DETAIL
☉	AGAVE ATTENUATA 'BLUE FLAME'	FOX TAIL	5 GALLON	2' x 2'-5"	AS SHOWN	LOW	CUP-29; DETAILS 1, 2
☼	BACCHARIS PILULARIS 'PIGEON POINT'	COYOTE BUSH	5 GALLON	8"-24" x SPREADING	6' D.C.	LOW	CUP-29; DETAILS 1, 2
○	HESPERALOE PARVIFLORA	RED YUCCA	5 GALLON	3'-4' x 5'	AS SHOWN	VERY LOW	CUP-29; DETAILS 1, 2
☼	MUHLBERGIA RIGENS	DEER GRASS	5 GALLON	4' x 4'	AS SHOWN	LOW	CUP-29; DETAILS 1, 2
☉	SALVIA CLEVELANDII 'WINNIFRED GILLMAN'	WINNIFRED GILLMAN BLUE SAGE	5 GALLON	3' x 3'	AS SHOWN	VERY LOW	CUP-29; DETAILS 1, 2
○	SALVIA MELLIFERA	BLACK SAGE	5 GALLON	3'-6' x 3'-5'	AS SHOWN	VERY LOW	CUP-29; DETAILS 1, 2

PLANTING NOTES

1. EXISTING TREES TO BE PROTECTED IN PLACE PER EXISTING TREE LEGEND. PROTECT IN PLACE EXISTING SHRUBS, GROUNDCOVERS, TURF AND ANY OTHER LANDSCAPE ELEMENTS.
2. PLANT SYMBOLS TAKE PRECEDENCE OVER PLANT QUANTITIES SPECIFIED.
3. PRIOR TO BEGINNING THE PLANTING OPERATION, IRRIGATE ALL PROPOSED PLANTING AREAS NORMALLY FOR TWO WEEKS TO GERMINATE WEEDS. APPLY CONTACT HERBICIDE TO WEEDS ONLY WITH A GLYPHOSPHATE HERBICIDE. REPEAT THE PROCESS FOR A SECOND CYCLE PRIOR TO BEGINNING PLANTING OPERATIONS. REMOVE ANY EXOTIC NON-NATIVE WEEDY SPECIES FROM PROJECT SITE. FOR ANY QUESTIONABLE SPECIES REMOVAL INQUIRE WITH LANDSCAPE ARCHITECT BEFORE PROCEEDING.
4. PRIOR TO PLANTING, IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL AND ALL PLANTING AREAS SHALL BE THOROUGHLY WATERED.
5. PLANT MATERIAL SHALL BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE OF THE PROJECT SITE, SUNSET CLIMATE ZONE 2
6. PLANT MATERIAL MAY BE REJECTED AT ANY TIME BY THE OWNER'S REPRESENTATIVE DUE TO HEALTH, FORM OR DAMAGE BEFORE OR AFTER PLANTING.
7. PROVIDE MATCHING SIZES AND FORMS FOR ALL PLANTINGS. SPACE PLANTS AS INDICATED ON PLANS.
8. ALL PROPOSED PLANTING AREAS SHALL HAVE 3" (THREE INCH) THICK - 3/4" ROCK MULCH. CONTRACTOR SHALL SUBMIT SAMPLE TO THE OWNERS REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.
9. PLANTS SHOULD BE LOCATED A MIN. 36" FROM SIGNAGE AND 75% OF THEIR MATURE DIAMETER FROM CURBS.
10. ALL PLANTING SHALL BE GUARANTEED THROUGH THE ESTABLISHMENT PERIOD. PLANT ESTABLISHMENT PERIOD (PEP) SHALL BE 90 DAYS.
11. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL AREAS IN A WEED AND DEBRIS-FREE CONDITION THROUGHOUT THE PEP.
12. DECOMPACT SOIL TO 24" DEPTH BY RIPPING, OR ROTO-TILLING. AMENDMENTS SHALL BE INCORPORATED PER SOIL ANALYSIS RECOMMENDATIONS. SOIL ANALYSIS TO BE OBTAINED BY CONTRACTOR.
13. PROVIDE MATCHING SIZES AND FORMS FOR EACH SPECIES FOR TREES INSTALLED IN GRID OR SPACED EQUALLY IN ROWS AS SHOWN ON DRAWINGS.
14. INSTALL ALL TREES A MINIMUM OF FOUR (4) FEET FROM BACK OF CURB, EDGE OF WALL OR PAVING. INSTALL ROOT BARRIER FOR ALL TREES WITHIN 5' OR AS SHOWN ON PLAN, OF CONCRETE PAVING, CURBS, WALLS, ETC. PER DETAILS
15. MARK OFF ALL MAJOR SHRUB AND GROUND COVER AREAS ON THE GROUND FOR REVIEW BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLING MATERIALS.
16. FORM BERMED WATERING BASIN AROUND ALL TREES INSTALLED IN GROUND COVER AREAS. FILL BASIN WITH MULCH AS SHOWN ON DETAIL. DO NOT INSTALL BERM AT TREES IN PAVED AREAS.
17. STAKE OUT LOCATION OF EACH TREE AS SPECIFIED. EACH LOCATION OF ALL TREES SHALL BE ACCEPTED BY THE OWNER'S REPRESENTATIVE PRIOR TO FINAL INSTALLATION.
18. CONTRACTOR SHALL IMMEDIATELY, UPON THE AWARD OF THE CONTRACT, ORDER, LOCATE AND PURCHASE (OR HAVE HELD) ALL PLANT MATERIAL REQUIRED BY THESE PLANS. PLANT MATERIAL SUBSTITUTIONS MAY BE SUGGESTED TO THE OWNERS REPRESENTATIVE. OBTAIN WRITTEN APPROVAL FOR FROM THE OWNERS REPRESENTATIVE PRIOR TO SUBSTITUTION.

MATERIAL LEGEND

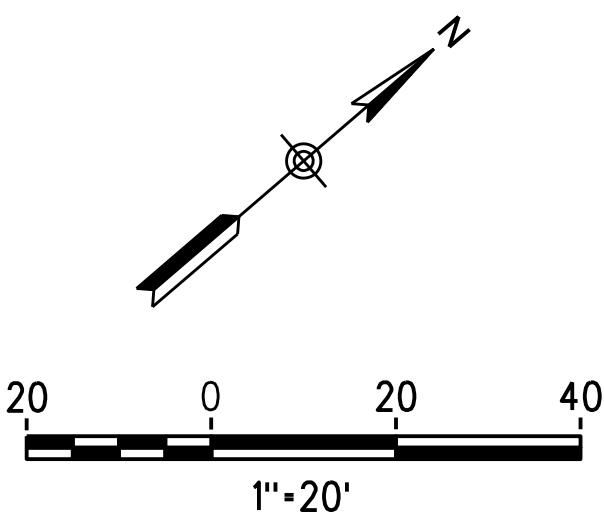
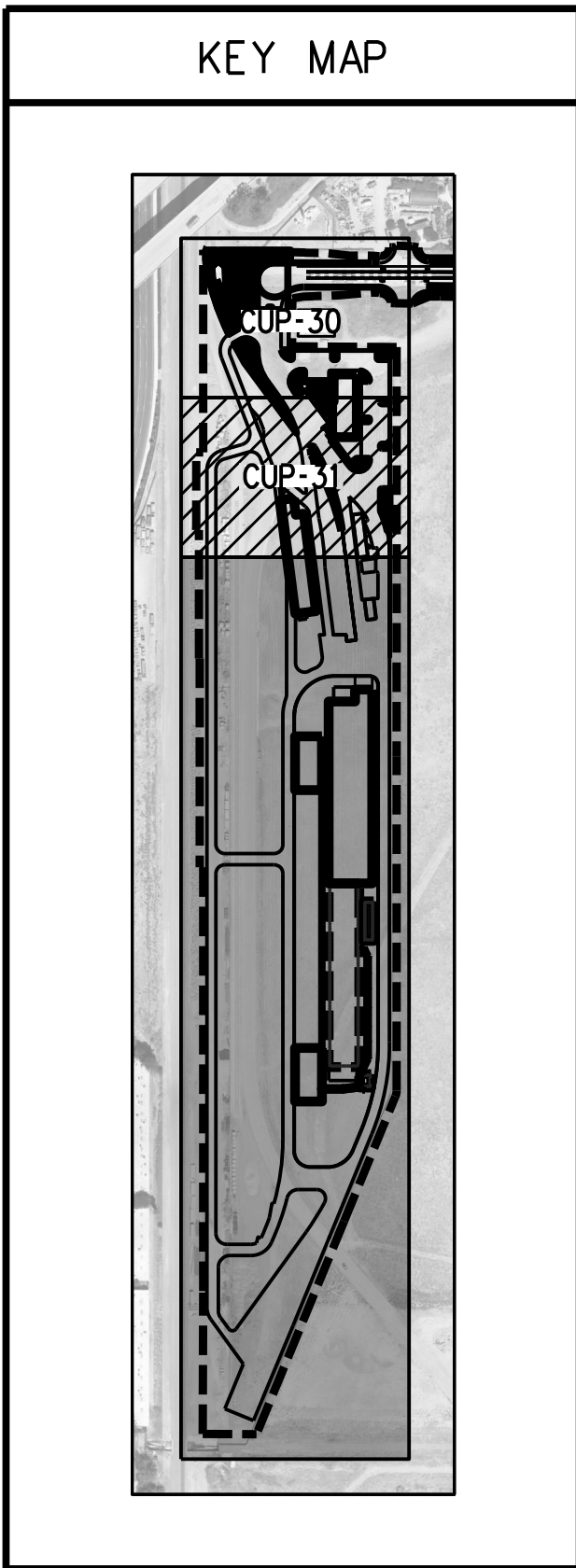
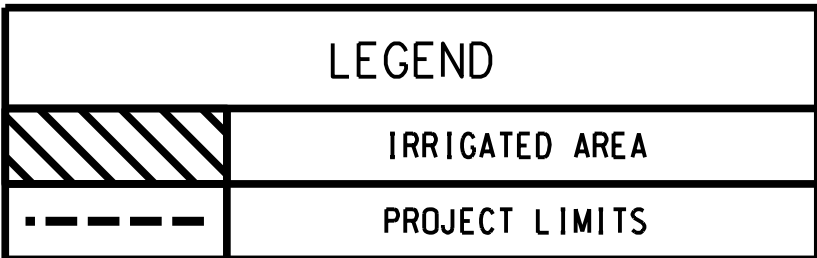
SYMBOL	MATERIAL	SIZE	DESCRIPTION/MANUFACTURER	DETAIL
N/A	ROOT BARRIER	24" ± 0.060" THICKNESS	FORMED POLYETHYLENE ROLLS, VVR 24"X20' ROLL O.C. OF TREE ALONG SIDEWALK AND PAVED EDGES. VILLAROOTBARRIER.COM, 1-800-654-4067	CUP-29; 3 AND 4
N/A	ROCK MULCH	3/4" AT 3" DEPTH	APACHE BROWN, CRUSHED STONE, SOUTHWEST BOULDER AND STONE, OR APPROVED EQUAL	CUP-29; 5

TOTAL LANDSCAPE AREA

3/4" ROCK MULCH AREA:	30,960 SQ. FT.
IRRIGATED LANDSCAPE:	30,960 SQ. FT.

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MATCHLINE (CUP-30)



								INFORMATION CONFIDENTIAL:	DESIGNED BY	J. AUSTIN
								All plans, drawings, specifications, and or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.	DRAWN BY	S. BOUP., D. FEE
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3							CHECKED BY	A. CARDENAS
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2							APPROVED BY	-
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1							DATE	04/11/2022
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL								
REV.	DATE					BY	SUB.	APP.		

NOT
FOR
CONSTRUCTION

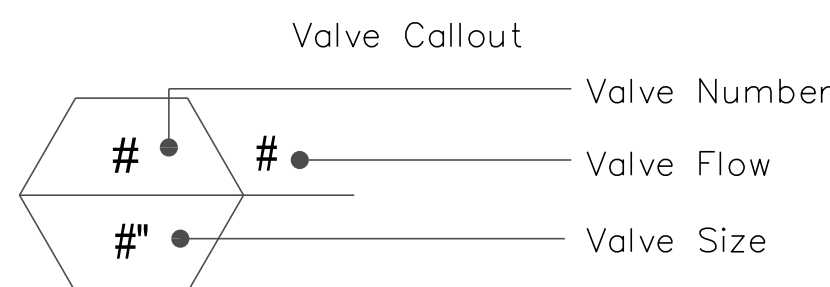


METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT

IRRIGATION PLANS 2

CASE NO.		00846471-PCPU	
CONTRACT NO.		C91143	
DRAWING NO.		CUP-31	
REVISION	SHEET NO.		
3	31		
SCALE		HORIZ 1"=20'	

SYMBOL	ITEM	MANUFACTURER / MODEL / DESCRIPTION	DETAIL
N/A	CONTROLLER	24 STATION COMMERCIAL CONTROLLER. STAINLESS STEEL PEDESTAL. FLOW SENSING. ESP12LXMEF-LXMMSS-LXMSSPED WITH (01) ESPLXMSM12	CUP-34; 5
N/A	RAIN SENSOR	RAIN BIRD RSD-CEX RAIN SENSING DEVICE, CONDUIT MOUNT. WITH THREADED ADAPTER, EXTENSION WIRE.	CUP-34; 6
N/A	MASTER VALVE	BUCKNER-SUPERIOR 3000 2" NORMALLY CLOSED BRASS MASTER VALVE THAT PROVIDES DIRTY WATER PROTECTION AND 3-WAY SOLENOID DESIGN.	CUP-35; 11
N/A	FLOW SENSOR	RAIN BIRD FS-100-B 1" FLOW SENSOR FOR USE WITH RAIN BIRD MAXICOM, SITECONTROL, AND ESP-LXD CENTRAL CONTROL SYSTEMS. BRASS MODEL. SUGGESTED OPERATING RANGE OF 2.0 GPM TO 40.0 GPM. SENSORS SHOULD BE SIZED FOR FLOW RATHER THAN PIPE SIZE.	CUP-35; 11
N/A	CONTROL VALVE (TREE)	TREE CONTROL VALVE: 1"- 2" BRASS REMOTE CONTROL VALVE, THAT IS CONTAMINATION PROOF W/SELF-FLUSHING FILTER SCREEN. GLOBE CONFIGURATION, RECLAIMED WATERCOMPATIBLE, AND PURPLE HANDLE COVER DESIGNATES NON-POTABLE WATER USE.	CUP-35; 13
N/A	TREE DEEP ROOT WATERING SYSTEM	RAIN BIRD RWS-M-B-C-SOCK 1402 MINI ROOT WATERING SYSTEM WITH 4.0" DIAMETER X 18.0" LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE AND RAIN BIRD 1401 0.25 GPM OR 1402 0.5 GPM BUBBLER AS INDICATED. WITH CHECK VALVE, AND SAND SOCK FOR SANDY SOIL.	CUP-33; 2
N/A	DRIP CONTROL VALVE	DRIP CONTROL VALVE: RAIN BIRD X CZ-100-PRB-COM WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 0.3GPM TO 20GPM.	CUP-33; 4
N/A	DRIP FLUSH VALVE	RAIN BIRD MDCFAP DRIPLINE FLUSH VALVE PURPLE CAP IN COMPRESSION FITTING COUPLER.	CUP-34; 10
N/A	DRIP SYSTEM OPERATION INDICATOR	RAIN BIRD OPERIND, STEM RISES 6" FOR CLEAR VISIBILITY WHEN DRIP SYSTEM IS CHARGED TO A MINIMUM OF 20PSI. INCLUDES 16" OF 1/4" DISTRIBUTION TUBING WITH CONNECTION FITTING PRE-INSTALLED.	CUP-34; 7
N/A	DRIPLINE	RAIN BIRD XFS-CV-06-12 XFS-CV ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 4.3 PSI CHECK VALVE. 0.6 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. SPECIFY XF INSERT FITTINGS.	CUP-33; 1



WATER PRESSURE CALCULATIONS:

WATER METER NUMBER: SYSTEM "A" WATER METER SIZE: TBD HYDRAULIC GRADE LINE: TBD WATER METER
ELEVATION: TBD ELEVATION DIFFERENCE: TBD STATIC PRESSURE (PSI): TBD WATER SERVICE PRESSURE REDUCING
VALVE SETTING (PSI): TBD SYSTEM (@ BASKET STRAINER) PRESSURE REDUCING VALVE SETTING (PSI): 50

AB-1885 COMPLIANCE CALCULATIONS MAXIMUM ALLOWABLE WATER ALLOWANCE

MAWA = 48.2 X .8 X 30,960 (SQ. FT.) X .62 = GALLONS PER YEAR
MAWA = ESTIMATED APPLIED WATER USE: 740,167 GALLONS/ YEAR

$$\begin{aligned} \text{EAU} &= 48.2 \times 0.3(\text{KL}) \times 30,960 (\text{SQ. FT.}) \times .62 / 0.81(\text{IE}) = \text{GALLONS PER YEAR} \\ \text{EAU} &= 342,670 \text{ GALLONS/YEAR} \end{aligned}$$

APPROVAL FOR ONSITE RECLAIMED WATER SYSTEM ONLY

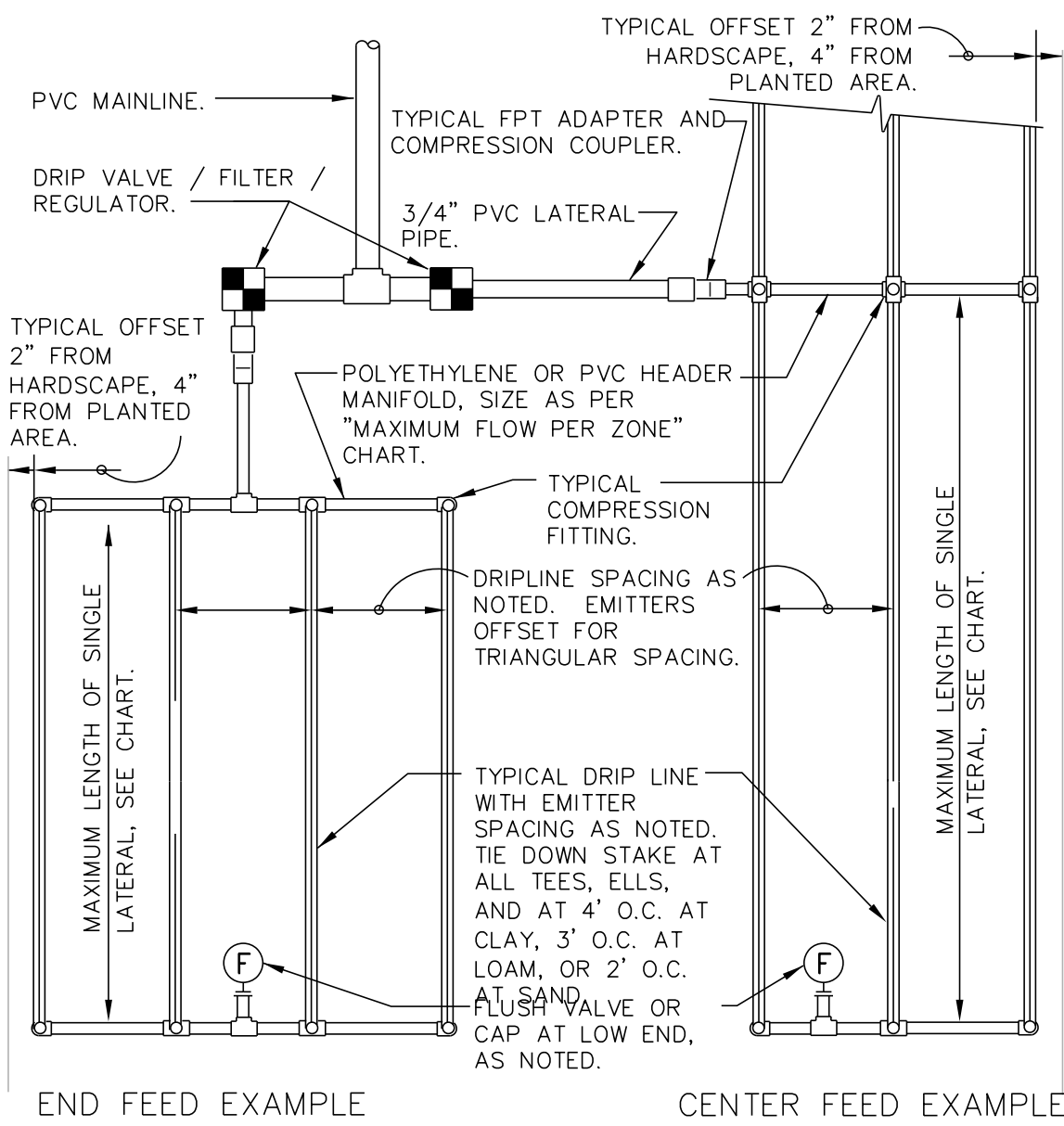
WATER METERS AND ALL CONNECTION TO IRVINE RANCH WATER DISTRICT (IRWD) FACILITIES MUST BE APPLIED FOR AND/OR APPROVED THROUGH THE IRWD DEVELOPMENT SERVICES GROUP. FOR SPECIFIC REQUIREMENTS FOR OBTAINING SERVICE CALL (949) 453-5300.

PLAN CHECK NO. _____

ONSITE APPROVAL _____ DATE _____

[illegible]

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MAXIMUM LATERAL LENGTH (FEET)				
EMITTER FLOW RATE GPH				
PSI	12" SPACING 0.6 GPM	18" SPACING 0.6 GPM	24" SPACING 0.6 GPM	
10	125	175	218	
20	249	350	442	
30	307	434	550	
40	350	495	627	
50	125	175	218	
60	125	175	218	

GRID PRECIPITATION RATES (IN/HR)			
EMITTER SPACING	LATERAL SPACING	EMITTER FLOW RATE	
12	12	0.6	
18	18	0.69	
24	24	0.28	

LATERAL FLOW PER 100 FT (GPM)			
EMITTER FLOW	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.5 GPM

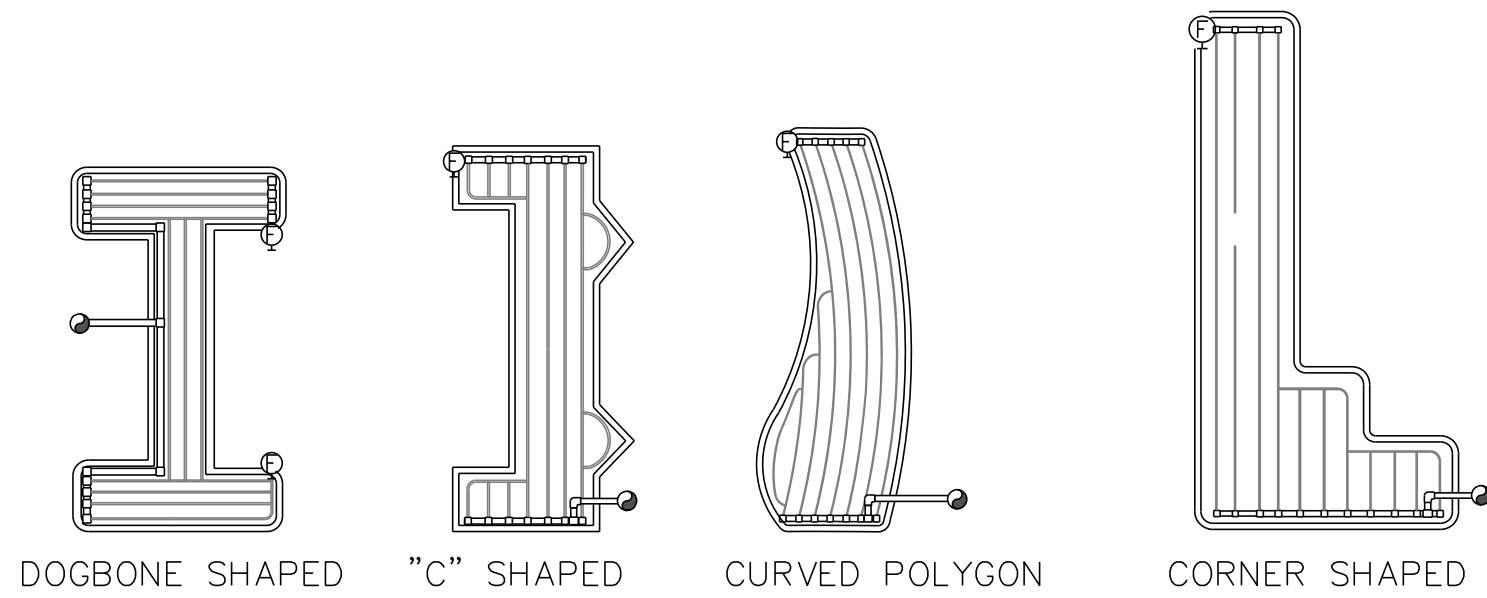
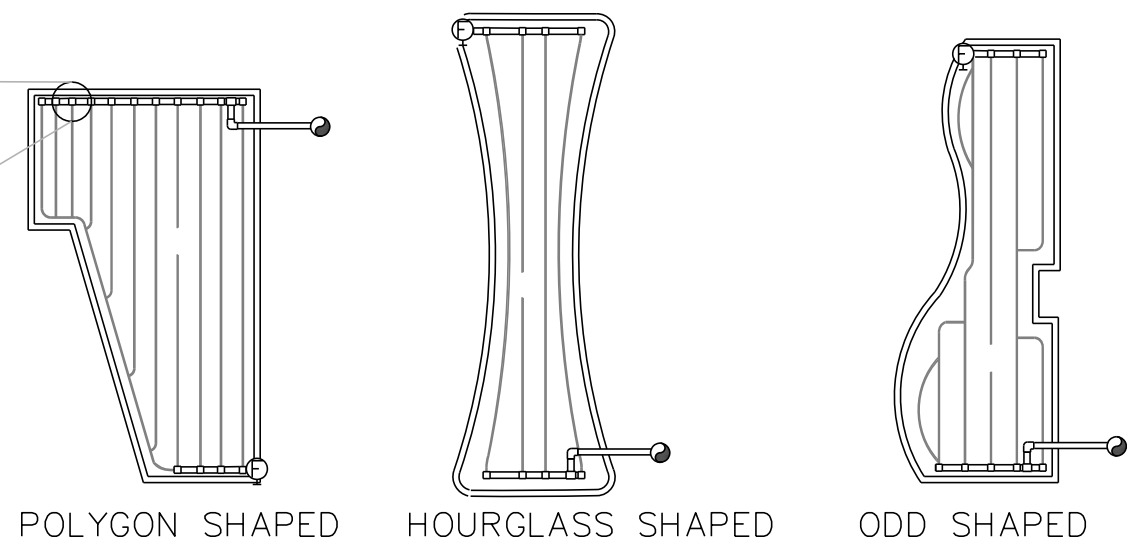
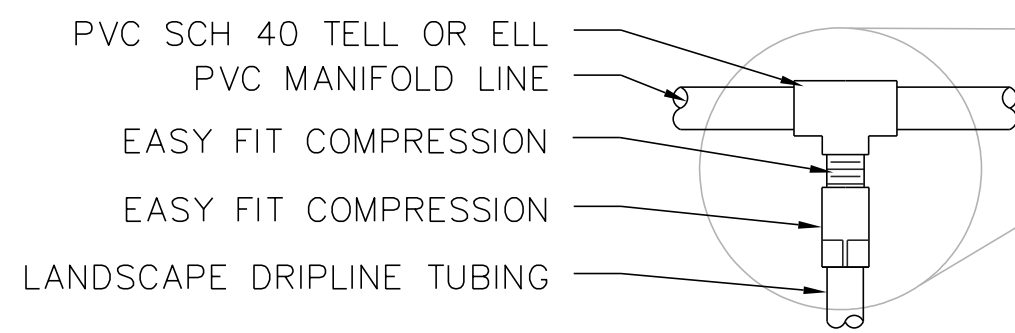
MAXIMUM FLOW PER ZONE		
SCHEDULE	40 PVC HEADER SIZE	MAX GPM PSI LOSS
1/2"	4.7 GPM	7.7 PSI
3/4"	8.3 GPM	5.6 PSI
1"	13.5 GPM	4.2 PSI
1-1/2"	33.9 GPM	2.9 PSI
2"	52.4 GPM	1.9 PSI

POLY PIPE HEADER SIZE		
1/2"	4.7 GPM	8.8 PSI
3/4"	8.3 GPM	6.3 PSI
1"	13.5 GPM	4.8 PSI
1-1/2"	33.9 GPM	2.9 PSI
2"	52.4 GPM	2.2 PSI

SLOPED CONDITION NOTE:

1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
3. NORMAL SPAVING WITHIN THE TOP 2/3 OF SLOPE.
4. INSTALL DRIPLINE AT 25% GREATER SPACING AT BOTTOM 1/3 OF SLOPE.
5. WHEN ELEVATION CHANGE IS 10 FT OF MORE, ZONE BOTTOM 1/3 OF SLOPE ON SEPARATE VALVE.

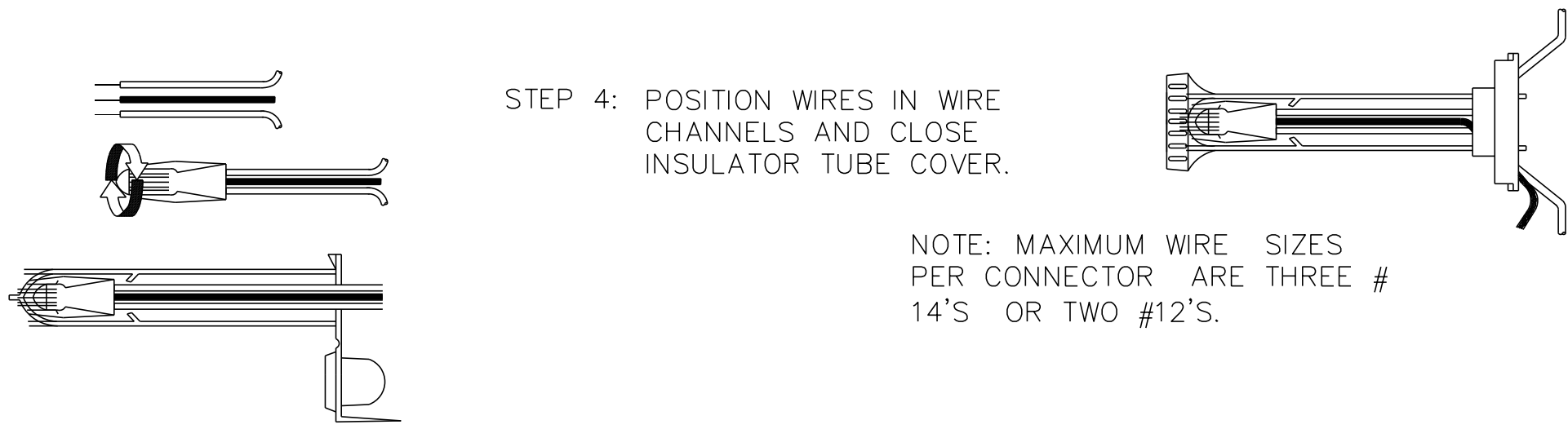
MANIFOLD/DRIPLINE CONNECTION EXAMPLE CONFIGURATIONS



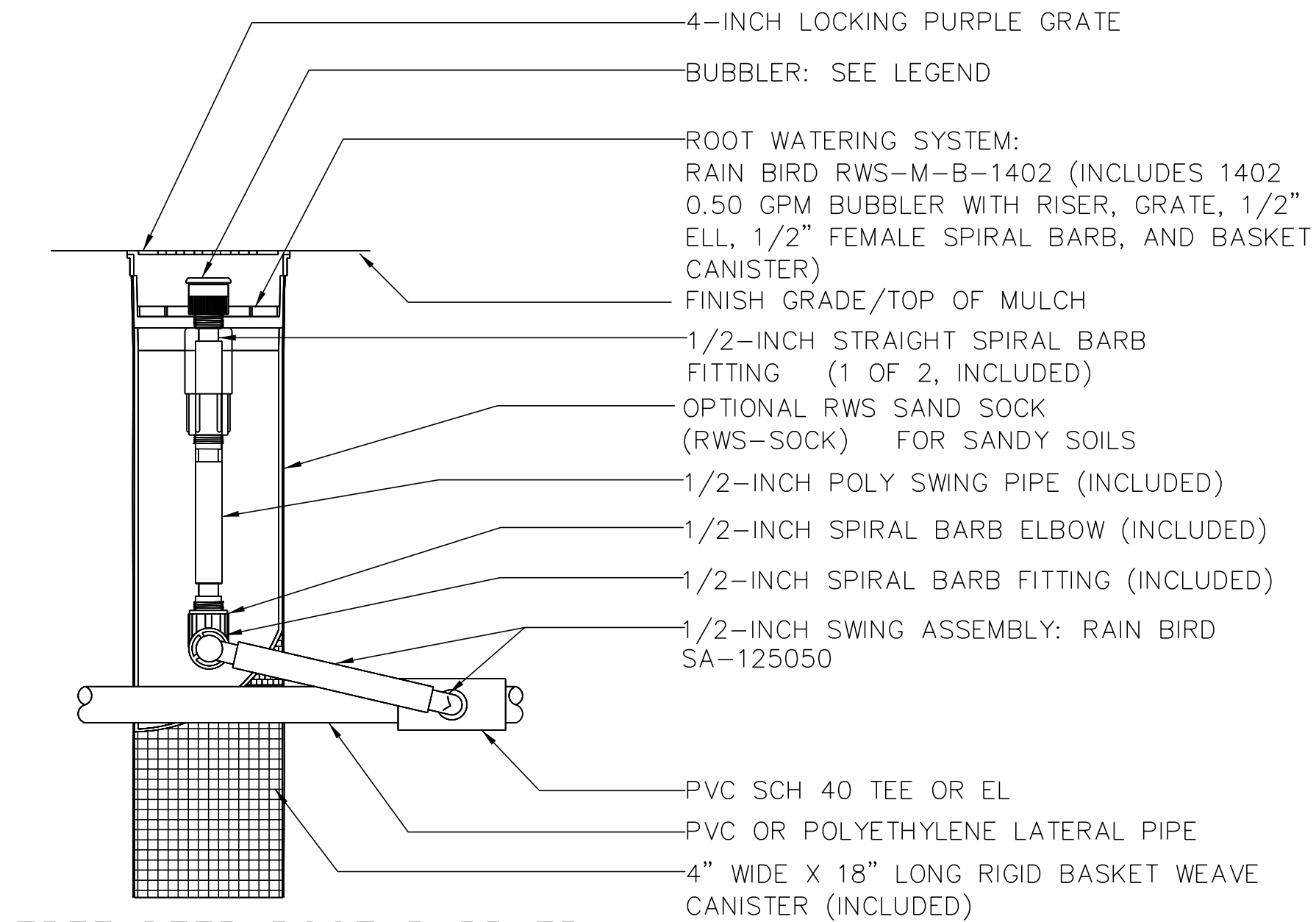
- LEGEND
- WATER SOURCE: DRIP VALVE OR LATERAL FROM VALVE
 - LANDSCAPE DRIPLINE TUBING
 - PVC MANIFOLD LINE WITH PVC TEE
 - FLUSH VALVE

DRIPLINE AREA

- STEP 1: STRIP WIRES 1/2" FROM ENDS.
- STEP 2: APPLY SCOTCHLOK Y SPRING CONNECTOR IN A CLOCKWISE DIRECTION.
- STEP 3: INSERT SPLICE TO BOTTOM OF GEL-FILLED TUBE. CHECK TO MAKE SURE CONNECTOR HAS BEEN PUSHED PAST LOCKING FINGERS AND IS SEATED AT BOTTOM OF TUBE.



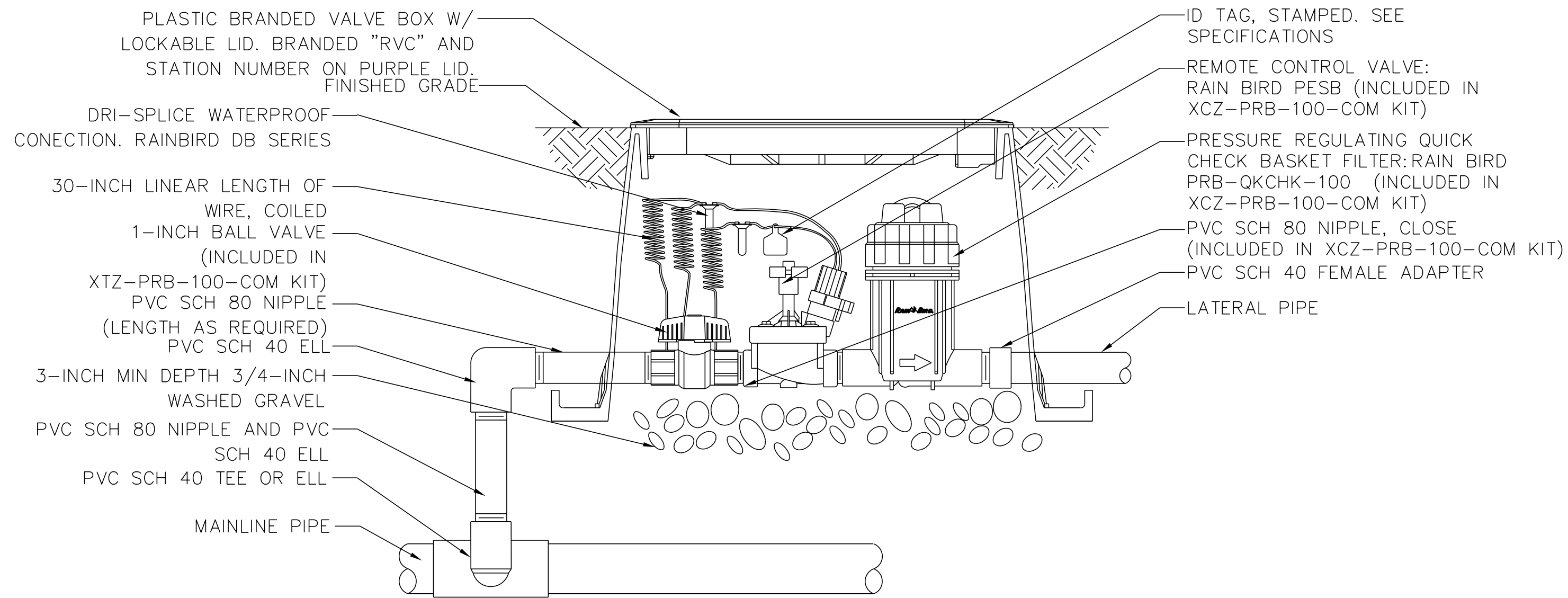
WIRE CONNECTION



TREE DEEP ROOT BUBBLER

SCALE: N.T.S.

2



XCZ-100-PRB-COM CONTROL ZONE KIT

SCALE: N.T.S.

4

REV.	DATE	BY	SUB.	APP.	DESCRIPTION
3	4/11/22				CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3
2	01/10/22				CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2
1	10/13/21				CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1
0	6/30/21				CONDITIONAL USE PERMIT SUBMITTAL

INFORMATION CONFIDENTIAL:	DESIGNED BY	J. AUSTIN
All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.	DRAWN BY	S. BOUP., D. FEE
	CHECKED BY	A. CARDENAS
	APPROVED BY	-
	DATE	04/11/2022

NOT FOR CONSTRUCTION

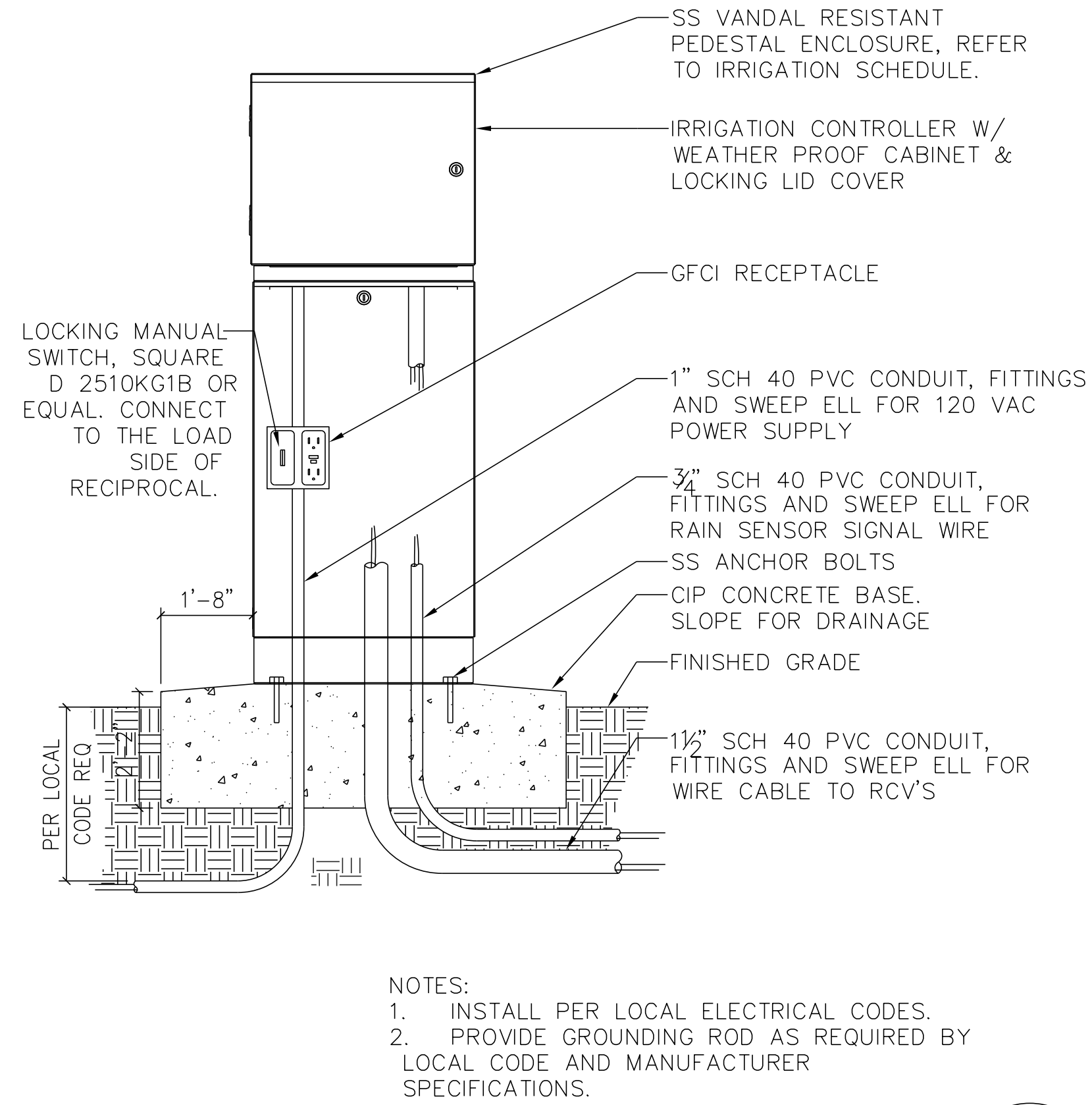


METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT

IRRIGATION DETAILS 1

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-33
REVISION	3
SHEET NO.	33
SCALE	NO SCALE

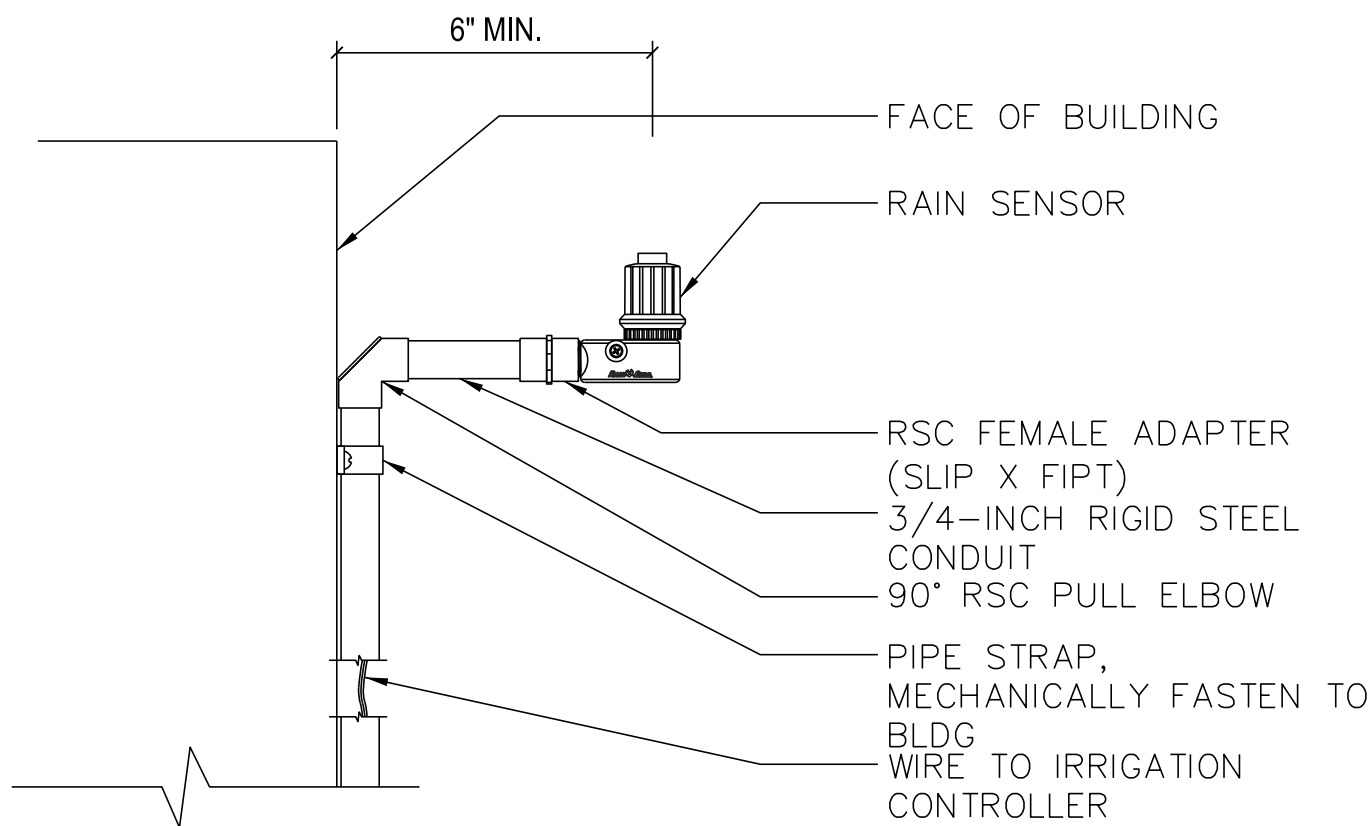
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CONTROLLER (PEDISTAL MOUNT)

SCALE: N.T.S.

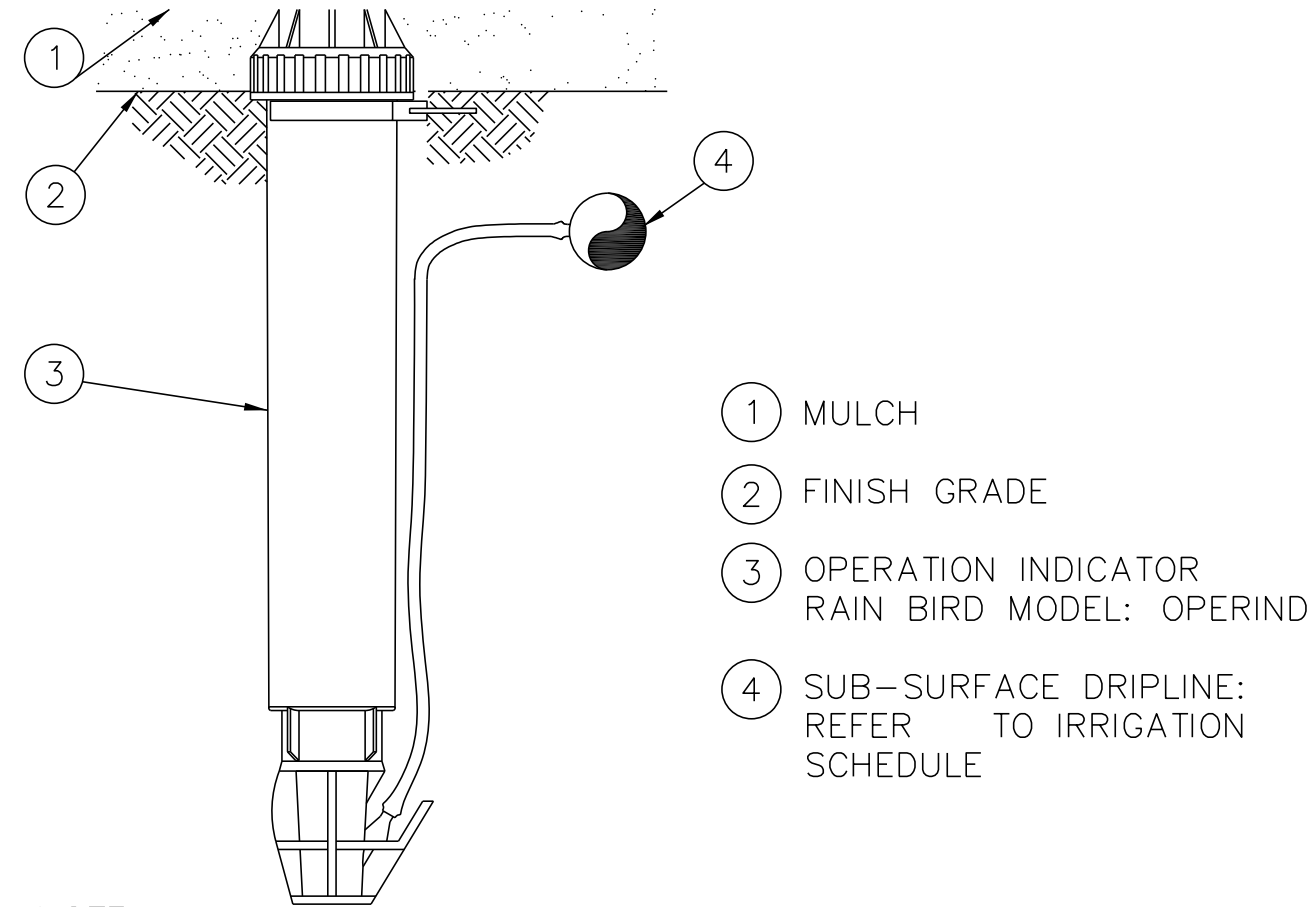
5



RAIN SENSOR MOUNTED TO WALL

SCALE: N.T.S.

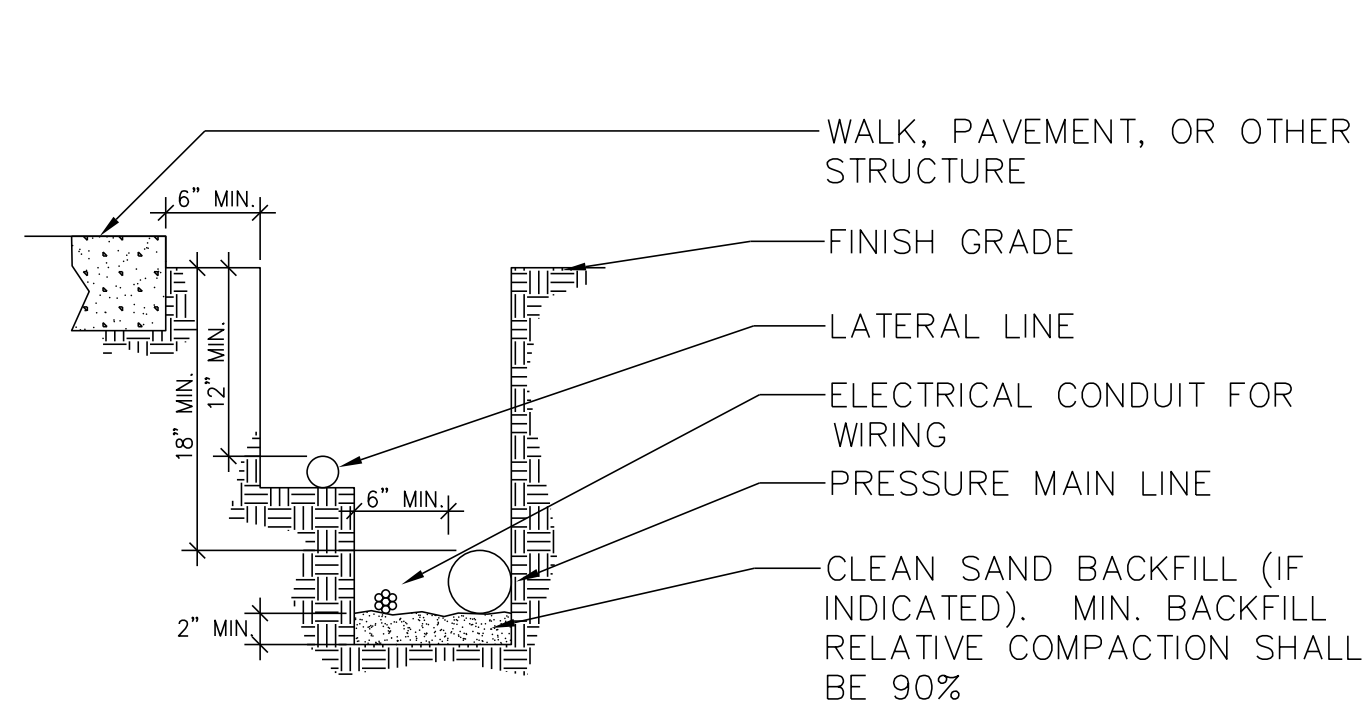
6



SUB-SURFACE DRIPLINE OPERATION INDICATOR

SCALE: N.T.S.

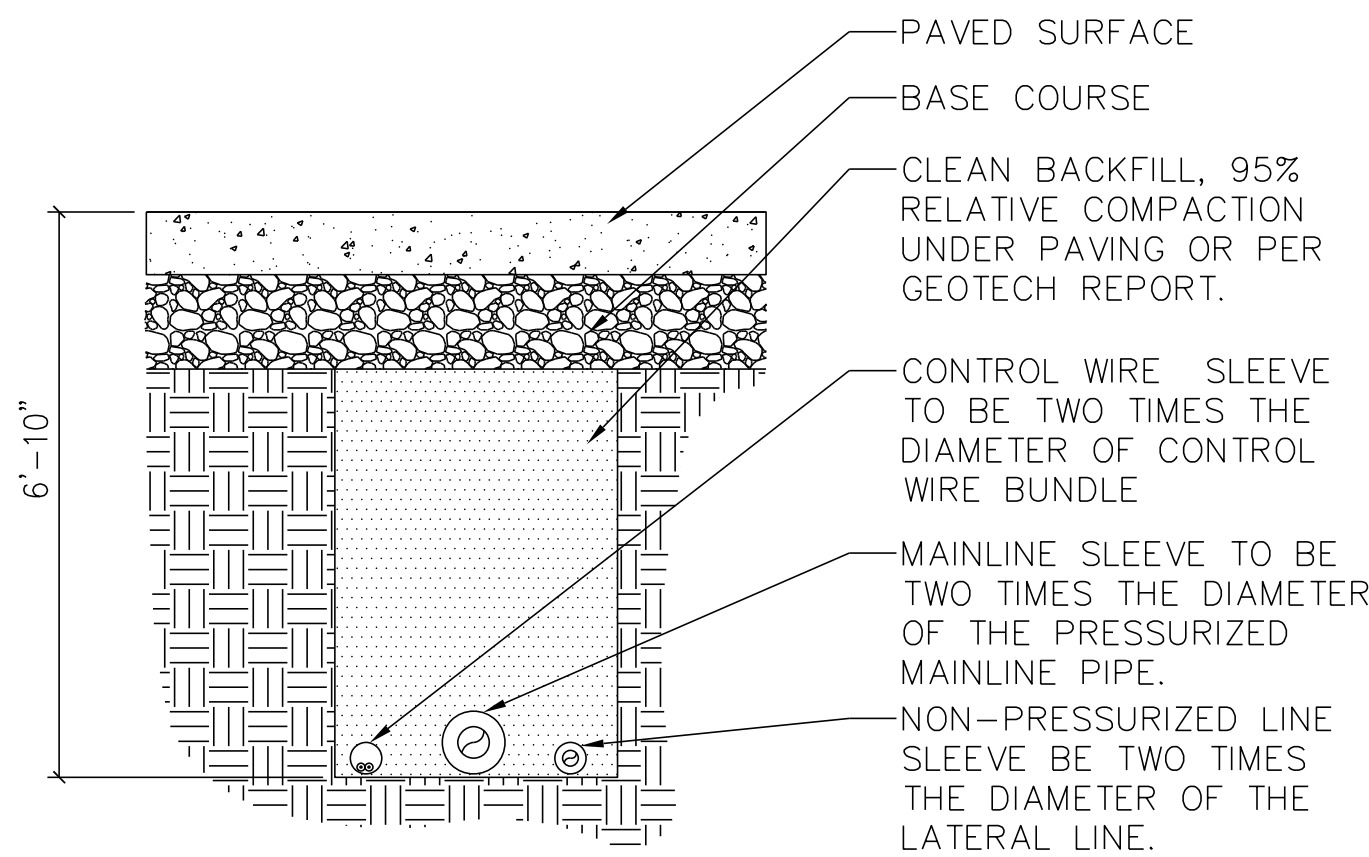
7



PIPE TRENCHING

SCALE: N.T.S.

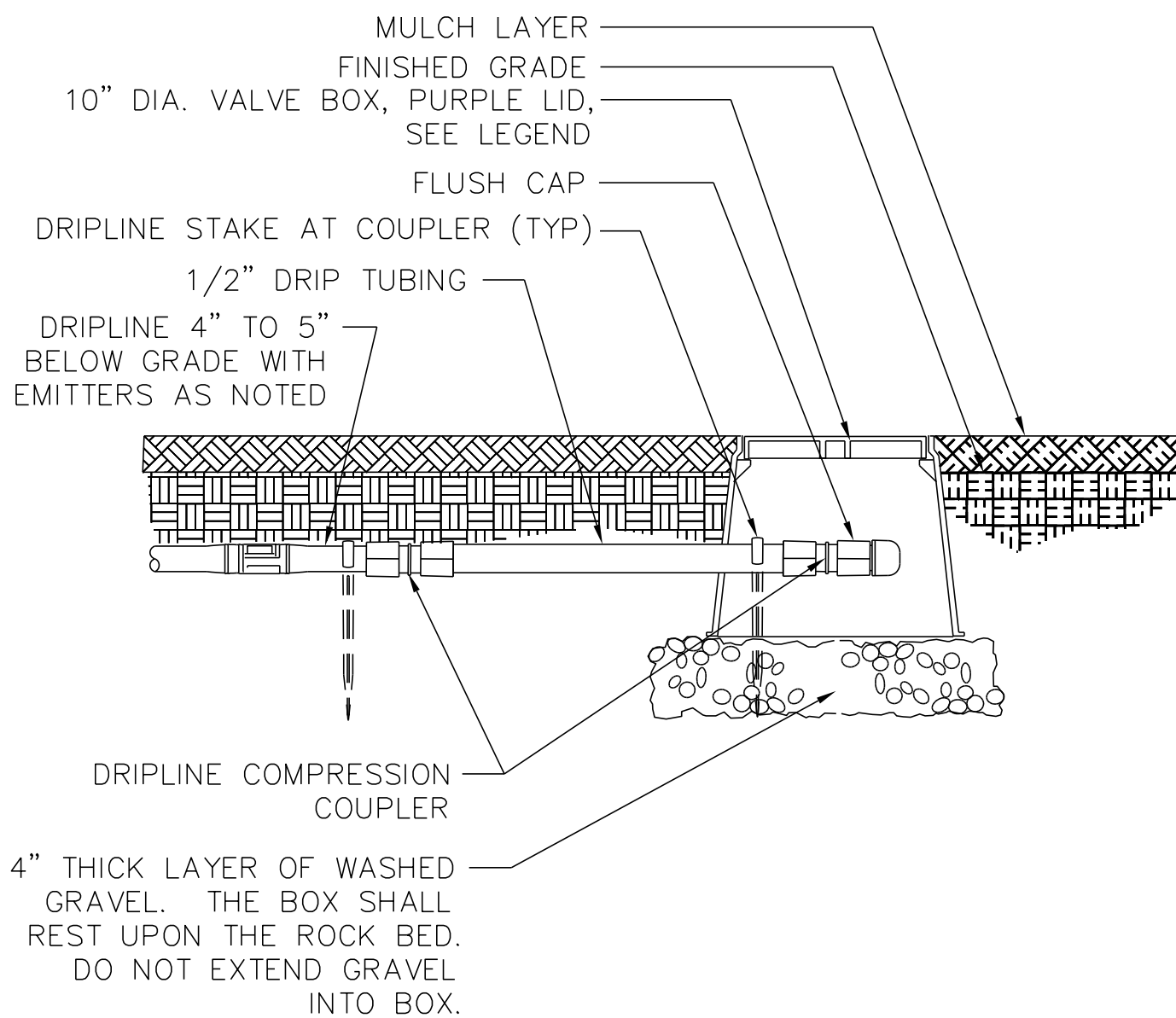
8



PIPE SLEEVING

1"=1'-0"

9



DRIPLINE FLUSH VALVE BELOW GRADE

SCALE: N.T.S.

10

REV.	DATE	BY	SUB.	APP.
3	4/11/22			
2	01/10/22			
1	10/13/21			
0	6/30/21			

DESIGNED BY	J. AUSTIN
DRAWN BY	S. BOUP., D. FEE
CHECKED BY	A. CARDENAS
APPROVED BY	-
DATE	04/11/2022

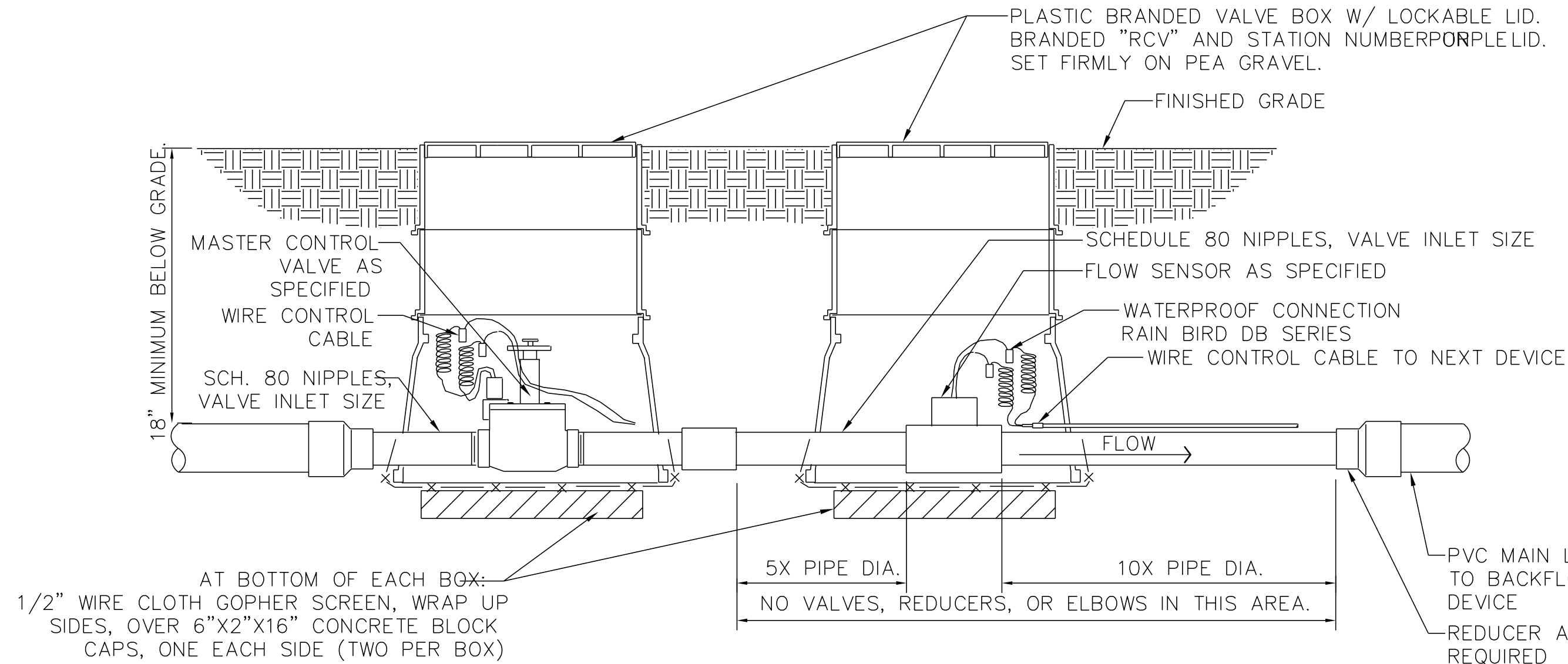
NOT FOR CONSTRUCTION

	SUBMITTED: _____ PROJECT MANAGER
	APPROVED: _____

METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT	
IRRIGATION DETAILS 2	

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-34
REVISION	3
SHEET NO.	34
SCALE	NO SCALE

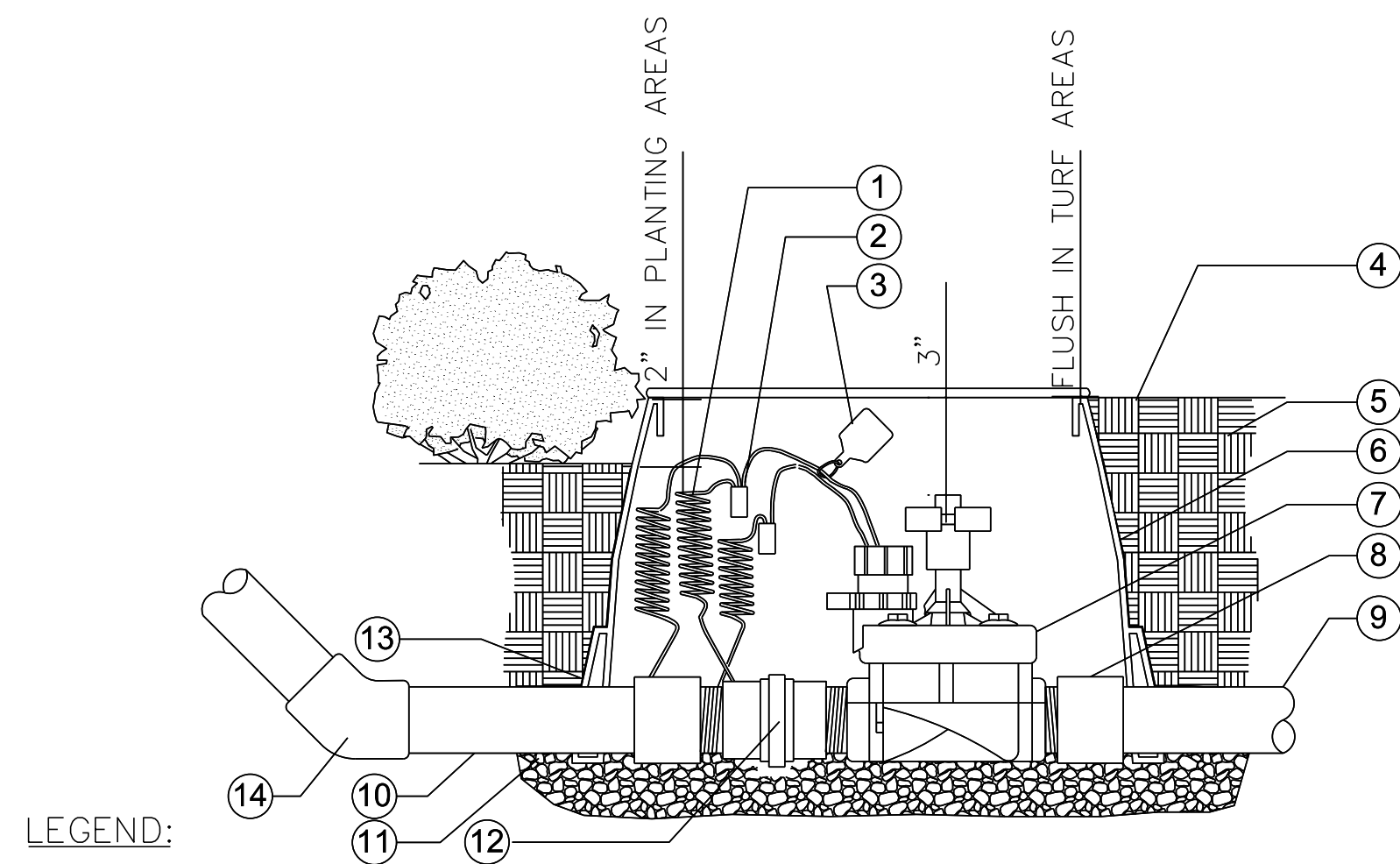
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MASTER VALVE/FLOW SENSOR ASSEMBLY (2-WIRE)

SCALE: N.T.S.

11



LEGEND:

- CONTROL WIRE W/ 24" COILED EXPANSION LOOP
- WATERPROOF WIRE CONNECTOR
- VALVE WATER I.D. TAG. (NYLON TIE THROUGH HOLE IN TAG)
- FINISH GRADE
- BACKFILL MATERIAL
- RECTANGULAR VALVE BOX, SEE SPECS. (DO NOT CUT ADDITIONAL HOLES IN BOX) CONTROL VALVE PER LEGEND, SEE PLAN FOR SIZE
- PVC SCH 80 MALE ADAPTER, 2 (ST) REQUIRED.
- SUPPLY LINE FROM MANIFOLD.
- NON-PRESSURE LATERAL LINE, SEE PLAN FOR SIZE.
- GRAVEL BASE AND SUMP. (COMPACT GRAVEL FOR BOX BASE, DO NOT USE BLOCKS OR BRICKS, FILL GRAVEL TO BOTTOM OF VALVE.
- PVC SCH 80 SINGLE UNION, MIPT X FIPT MODEL.
- FILTER FABRIC. WRAP 1 LAYER AROUND BOX COVERING HOLES.
- PVC LATERAL LINE PIPE, 45 DEGREE TO SURFACE

NOTE:

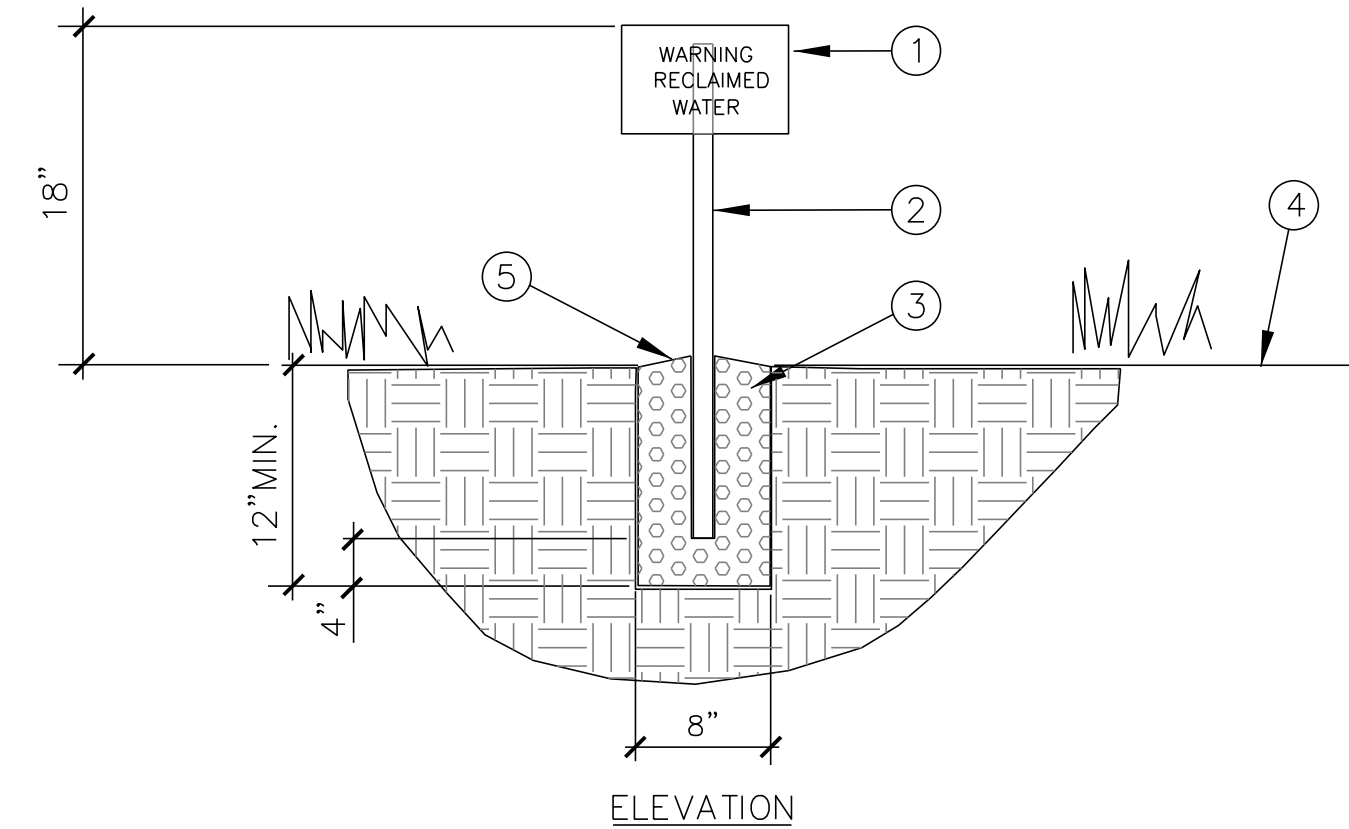
A. USE TEFLON TAPE ON ALL THREADED JOINTS

RCV ASSEMBLY

SCALE: N.T.S.

13

ALL PROPER SIGNAGE, AS SHOWN BELOW, MUST BE IN PLACE PRIOR TO ISSUANCE OF A JUMPER OR METER FOR YOUR SYSTEM. FAILURE TO INSTALL THE REQUIRED SIGNS PER IRWD STANDARDS WILL DELAY YOUR METER SET, OR REQUEST FOR A JUMPER. IF A SYSTEM IS FOUND TO BE OPERATING ON A JUMPER OR METER WITHOUT THE PROPER SIGNS BEING INSTALLED, YOU WILL BE GIVEN 48 HOURS NOTICE TO INSTALL PROPER SIGNS BEFORE IRWD WILL LOCK OFF EXISTING JUMPERS OR METERS. IRWD WILL NOT BE RESPONSIBLE FOR ANY SUBSEQUENT LANDSCAPE MATERIAL THAT MAY WITHER AND DIE AS A RESULT OF A JUMPER OR METER BEING LOCKED OFF.



LEGEND:

- RECLAIMED WATER SIGNAGE PER IRWD STANDARDS. INSTALL WITH 3/8" STAINLESS STEEL BOLTS AT A MINIMUM OF TWO LOCATIONS - LENGTH AS REQUIRED. USE 1" DIAMETER WASHER TO PROTECT SIGN.
- 1-1/4" GALVANIZED STEEL POLE U-CHANNEL, OR BOX POST
- CONCRETE FOOTING. MINIMUM 2,000 PSI. SET TOP OF FOOTING BELOW FINISH GRADE.
- PLANTING AREA FINISH GRADE.
- SLOPE TO DRAIN.

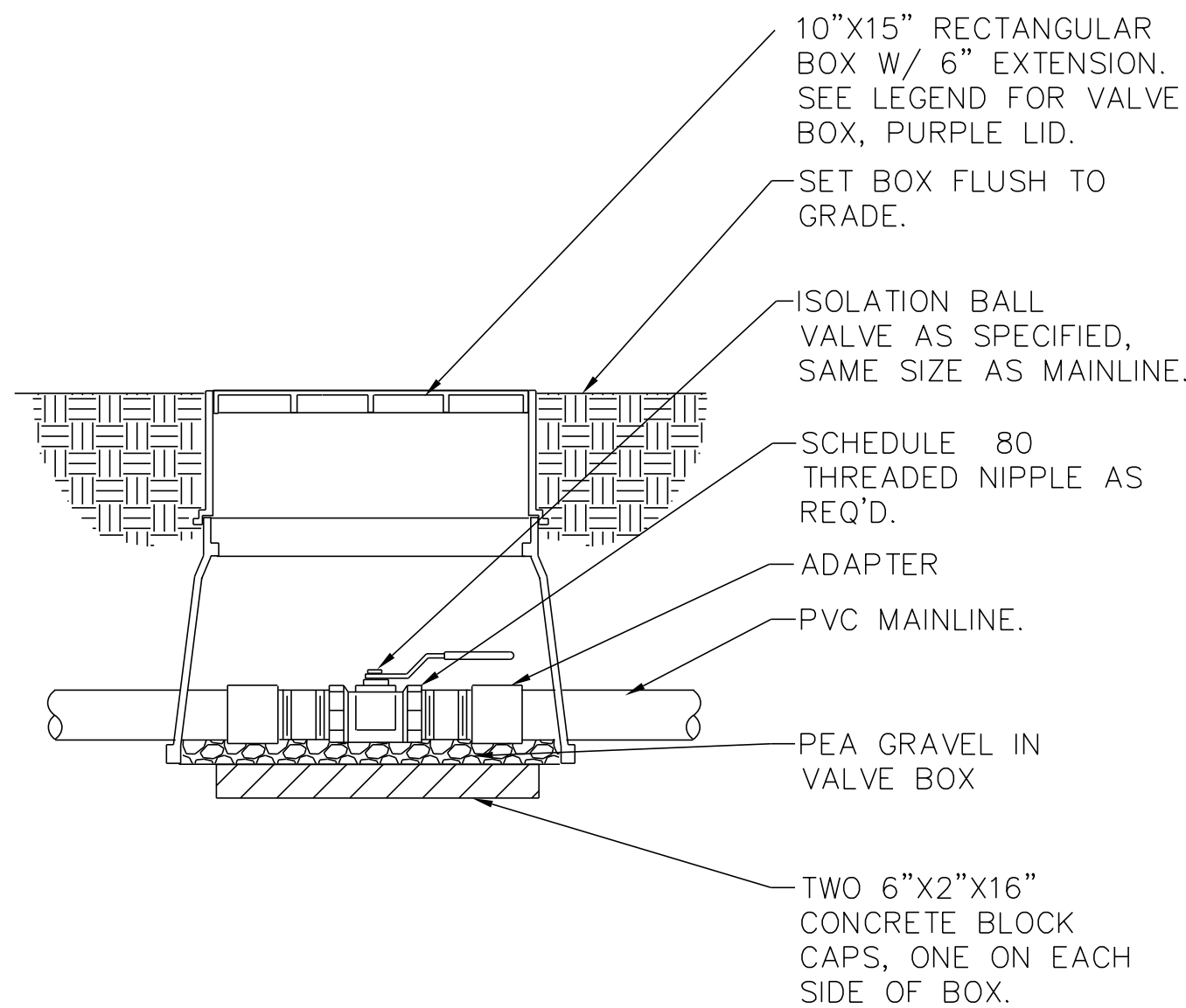
NOTES:

- REQUIRED SIGNAGE FOR RECYCLED WATER USE AREAS: ALL USE AREAS ACCESSIBLE TO THE PUBLIC SHALL BE POSTED WITH SIGNS (MINIMUM TWO PER METER) THAT AREA VISIBLE TO THE PUBLIC IN A SIZE NO LESS THAT 4 INCHES HIGH BY 8 INCHES WIDE.
- CONTRACTOR TO SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL FROM. OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION AT FINAL LOCATION.
- PERMANENTLY MOUNT SIGNAGE TO POLE WITH STAINLESS STEEL FASTENERS.
- ALIGN FACE OF SIGN SQUARE WITH ADJACENT CONCRETE CURB OR PAVING EDGE.
- INSTALLATION SHALL COMPLY WITH THE CITY OF IRVINE AND IRWD REQUIREMENTS.
- FOR MINIMUM WORDING REQUIREMENTS, REFER TO IRWD RECYCLED AND POTABLE WATER STANDARDS.

RECLAIMED WATER SIGNAGE

SCALE: N.T.S.

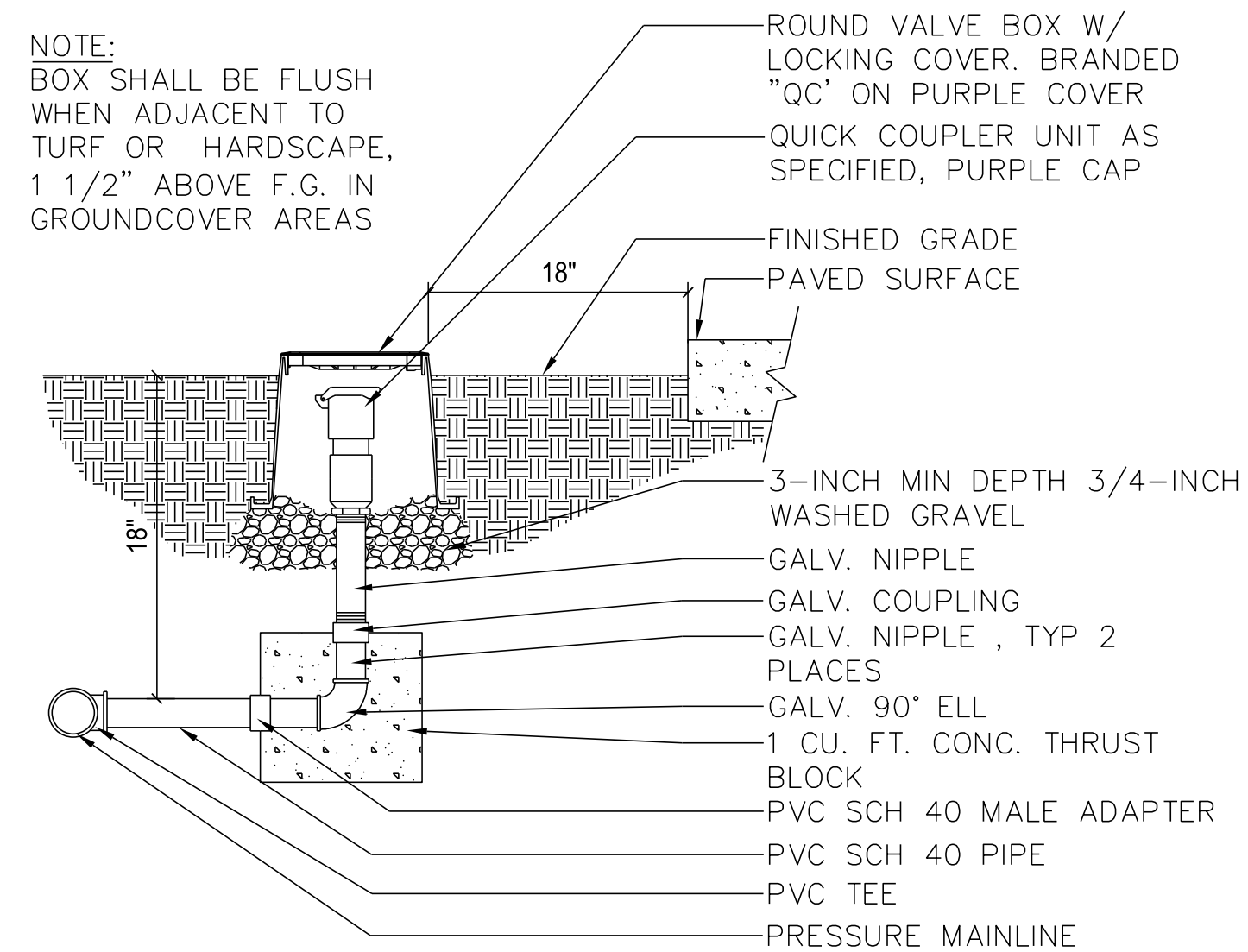
12



BRASS BALL ISOLATION VALVE

1 1/2" = 1'-0"

14



QUICK COUPLER

1 1/2" = 1'-0"

15

REV.	DATE	BY	SUB.	APP.
3	4/11/22			
2	01/10/22			
1	10/13/21			
0	6/30/21			

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DESIGNED BY	J. AUSTIN
DRAWN BY	S. BOUP., D. FEE
CHECKED BY	A. CARDENAS
APPROVED BY	-
DATE	04/11/2022

NOT FOR CONSTRUCTION

	METROLINK®
	Gannett Fleming
	AECOM
SUBMITTED:	PROJECT MANAGER
APPROVED:	

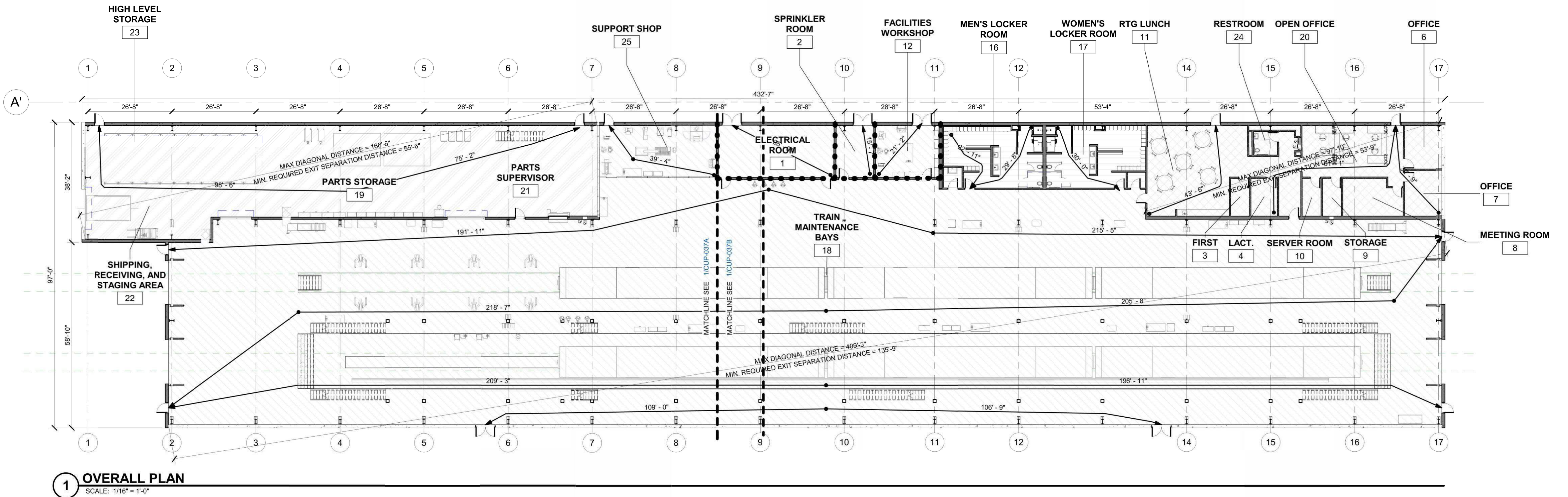
METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT

IRRIGATION DETAILS 3

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-35
REVISION	SHEET NO.
3	35
SCALE	NO SCALE

Local File: BM-BM 360-067272 - Metrolink Orange County Maintenance Facility\067272_MB_A_central_R20_BM360.rvt
Central File: BM360\A_central_R20.rvt

Project Number: #####
10/11/2021 3:22:15 PM



BUILDING INFORMATION

BUILDING NAME AND DESCRIPTION:

MAINTENANCE BUILDING - ONE STORY STEEL FRAMED MAINTENANCE FACILITY WITH SERVICE BAYS, STORAGE, AND OFFICE FUNCTIONS.

BUILDING SIZE:

FIRST FLOOR - 40,392 S.F.

CONSTRUCTION TYPE:

TYPE 2-B

FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS (PER CBC TABLE 601):

- STRUCTURAL FRAME - 0 HOURS
- BEARING WALLS (EXTERIOR AND INTERIOR) - 0 HOURS
- FLOOR CONSTRUCTION - 0 HOURS
- ROOF CONSTRUCTION - 0 HOURS
- ROOF ASSEMBLY - 0 HOURS

FIRE PROTECTION:

- FULLY SPRINKLERED, AUTOMATIC SPRINKLER SYSTEM AND FIRE ALARM SYSTEM COMPLYING WITH NFPA-13 (CBC SECTION 903.1.1)

OCCUPANCY GROUPS (PER CBC SECTION 302):

- NON-SEPARATED MIXED OCCUPANCY (PER CBC TABLE 508.4).
- FACTORY GROUP F-1 - MODERATE HAZARD FACTORY INDUSTRIAL (CBC SECTION 308.2)
- BUSINESS GROUP B (CBC SECTION 304)
- STORAGE GROUP S-1 (CBC SECTION 311)

ALLOWABLE BUILDING HEIGHT AND BUILDING AREA:

- TYPE 2B CONSTRUCTION, OCCUPANCY GROUP F-1, GROUP B, & GROUP S-1
- 75'-0" ALLOWABLE BUILDING HEIGHT (PER CBC TABLE 504.3)
- 46,500 SF ALLOWABLE AREA (PER CBC TABLE 506.2)

MAXIMUM EXIT ACCESS TRAVEL DISTANCE (PER CBC TABLE 1017.2):

- FACTORY GROUP INDUSTRIAL F-1 - 250 FEET
- BUSINESS GROUP B - 300 FEET
- STORAGE GROUP S-1 - 250 FEET

EXIT SEPARATION DISTANCE (PER CBC SECTION 1007.1.1):

- INDUSTRIAL -
 - 1. MAX DIAGONAL DIMENSION OF SPACE - 407'-4"
 - 2. MIN. REQUIRED EXIT SEPARATION DISTANCE (SPRINKLERED BUILDING) - 1/3 x 407'-4" = 135'-9"
- OFFICE -
 - 1. MAX DIAGONAL DIMENSION OF SPACE - 161'-3"
 - 2. MIN. REQUIRED EXIT SEPARATION DISTANCE (SPRINKLERED BUILDING) - 1/3 x 161'-3" = 53'-9"
- STORAGE AREA -
 - 1. MAX DIAGONAL DIMENSION OF SPACE - 166'-6"
 - 2. MIN. REQUIRED EXIT SEPARATION DISTANCE (SPRINKLERED BUILDING) - 1/3 x 166'-6" = 55'-6"

MAXIMUM OCCUPANT LOAD FACTORS (PER CBC TABLE 1004.5):

- INDUSTRIAL/OFFICE - 100 SF (GROSS)
- LOCKER ROOMS - 50 SF (GROSS)
- STORAGE AREA - 300 SF (GROSS)
- ACCESSORY AREAS - 300 SF (GROSS)

OCCUPANT LOAD CALCULATIONS (PER CBC TABLE 1004.5):

- OFFICE - 3,253 SF / 100 SF = 33 OCCUPANTS
- LOCKER ROOMS - 1,267 SF / 50 SF = 25 OCCUPANTS
- INDUSTRIAL - 29,445 SF / 100 SF = 295 OCCUPANTS
- STORAGE AREA - 5,160 SF / 300 SF = 17 OCCUPANTS
- TOTAL = 371 OCCUPANTS (MEN TO WOMEN RATIO = 50/50)

DESIGNED OCCUPANT LOAD FACTORS:

- INDUSTRIAL - 800 SF
- OFFICE - 100 SF
- LOCKER ROOMS - 50 SF
- STORAGE AREA - 300 SF

DESIGNED OCCUPANT LOAD CALCULATIONS:

- OFFICE - 3,253 SF / 100 SF = 33 OCCUPANTS
- LOCKER ROOMS - 1,267 SF / 50 SF = 25 OCCUPANTS
- INDUSTRIAL - 29,445 SF / 800 SF = 37 OCCUPANTS
- STORAGE AREA - 5,160 SF / 300 SF = 17 OCCUPANTS
- TOTAL = 113 OCCUPANTS (MEN TO WOMEN RATIO = 80/20)

MINIMUM REQUIRED PLUMBING FIXTURES (PER CPC TABLE 403.1):

BUSINESS GROUP B = 50 OCCUPANTS - 40 MEN, 10 WOMEN

- WATER CLOSETS = 2 (MEN), 1 (WOMEN)
- LAVATORIES = 1 (MEN), 1 (WOMEN)
- DRINKING FOUNTAIN = 1
- SERVICE SINK = 1

FACTORY GROUP F = 50 OCCUPANTS - 40 MEN, 10 WOMEN

- WATER CLOSETS = 1 (MEN), 1 (WOMEN)
- LAVATORIES = 1 (MEN), 1 (WOMEN)
- DRINKING FOUNTAIN = 1
- SERVICE SINK = 1

FLOOR PLAN NOTES

- MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE.
- DIMENSIONS AT CMU WALLS ARE TO THE FACE OF CMU UNLESS NOTED OTHERWISE.
- DIMENSIONS AT INTERIOR STUD WALLS ARE TO THE CENTERLINE OF STUD UNLESS NOTED OTHERWISE.
- DIMENSIONS FOLLOWED BY AN ASTERISK (*) ARE TO THE FACE OF STUD ON ONE OR BOTH SIDES.
- PROVIDE LINTELS FOR OPENINGS IN MASONRY WALLS INCLUDING BUT NOT LIMITED TO OPENINGS FOR DOORS, WINDOWS, LOUVERS, AND MECHANICAL AND ELECTRICAL PENETRATIONS.
- ARCHITECTURAL DRAWINGS SHOW FLOOR DRAINS, TRENCH DRAINS, AND FLOOR HATCHES IN FINISHED FLOOR AREAS ONLY. REFER TO STRUCTURAL AND PLUMBING DRAWINGS FOR FLOOR DRAINS, TRENCH DRAINS, AND FLOOR HATCHES IN NON-FINISHED FLOOR AREAS.

FLOOR PLAN NOTES

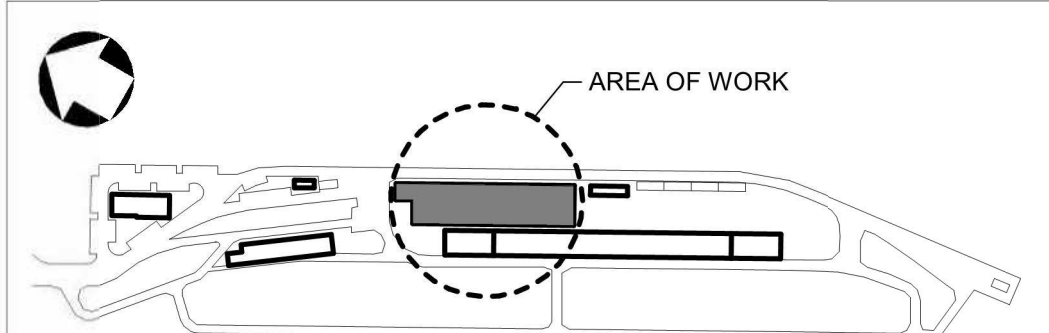
- THE INSIDE EDGE OF DOOR FRAMES SHALL BE SET 6" CLEAR FROM THE FINISH FACE OF THE ADJACENT PERPENDICULAR PARTITION UNLESS OTHERWISE DIMENSIONED.
- PROVIDE SUFFICIENT BLOCKING INSIDE THE WALLS FOR INSTALLATION OF CASEWORK, TOILET ACCESSORIES, PROJECTOR BRACKETS, PROJECTION SCREENS, MARKER BOARDS, TACK BOARDS, CHALK BOARDS, TELEVISION BRACKETS, AND ALL OTHER WALL MOUNTED EQUIPMENT.
- TACK BOARDS, MARKER BOARDS, AND TELEVISION BRACKETS SHOWN ON PLAN ARE FOR THE PURPOSES OF DETERMINING TENTATIVE LOCATIONS AND QUANTITY. FINAL LOCATIONS TO BE CONFIRMED IN THE FIELD BY THE OWNER.
- SEE CIVIL DRAWINGS FOR CONCRETE PADS AND BOLLARD LOCATIONS AT EXTERIOR DOORS.
- BUILDING INCLUDES HIGH-PILED STORAGE.

DRAWING LEGEND

- INDUSTRIAL
- OFFICE
- LOCKER ROOMS
- STORAGE AREA

1 HR RATED FIRE WALL

- #" PATH OF EGRESS



METROLINK



Gannett Fleming

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NOT FOR CONSTRUCTION

DESIGNED BY

JML

DRAWN BY

JML

CHECKED BY

RW

APPROVED BY

RW

DATE:

04/11/2022

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REV	DATE	DESCRIPTION	BY	APP
3	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3		
2	01/05/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2		
1	10/13/2021	CONDITIONAL USE PERMIT SUBMITTAL REVISION 1		
0	06/30/2021	CONDITIONAL USE PERMIT SUBMITTAL		

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-036
REVISION	3
SHEET NO.	36
SCALE	As indicated

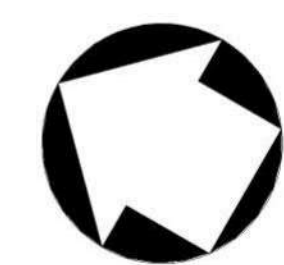
METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

ARCHITECTURE
MAINTENANCE BUILDING - OVERALL FLOOR PLAN



- 1 MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE.
- 2 DIMENSIONS AT CMU WALLS ARE TO THE FACE OF CMU UNLESS NOTED OTHERWISE.
- 3 DIMENSIONS AT INTERIOR STUD WALLS ARE TO THE CENTERLINE OF STUD UNLESS NOTED OTHERWISE.
- 4 DIMENSIONS FOLLOWED BY AN ASTERISK (*) ARE TO THE FACE OF STUD OR TO THE BOTTOM OF STUD.
- 5 PROVIDE UNITS $\frac{1}{2}$ FOR OPENINGS IN MASONRY WALLS INCLUDING BUT NOT LIMITED TO OPENINGS FOR DOORS, WINDOWS, LOUVERS, AND MECHANICAL AND ELECTRICAL PENETRATIONS.
- 6 ARCHITECTURAL DRAWINGS SHOW FLOOR DRAINS, TRENCH DRAINS, AND FLOOR HATCHES IN FINISHED FLOOR AREAS ONLY. REFER TO STRUCTURAL AND PLUMBING DRAWINGS FOR FLOOR DRAINS, TRENCH DRAINS, AND FLOOR HATCHES IN NON-FINISHED FLOOR AREAS.

- 7 THE INSIDE EDGE OF DOOR FRAMES SHALL BE SET 6" CLEAR FROM THE FINISH FACE OF THE ADJACENT PERPENDICULAR PARTITION UNLESS OTHERWISE DIMENSIONED.
- 8 PROVIDE SUFFICIENT BLOCKING INSIDE THE WALLS FOR INSTALLATION OF CASEWORK, TOILET ACCESSORIES, PROJECTOR BRACKETS, PROJECTION SCREENS, MARKER BOARDS, TACK BOARDS, CHALK BOARDS, TELEVISION BRACKETS, AND ALL OTHER WALL MOUNTED EQUIPMENT.
- 9 TACK BOARDS, MARKER BOARDS, AND TELEVISION BRACKETS SHOWN ON PLANS ARE FOR THE PURPOSES OF DETERMINING TENTATIVE LOCATIONS AND QUANTITY. FINAL LOCATIONS TO BE CONFIRMED IN THE FIELD BY THE OWNER.
- 10 SEE CIVIL DRAWINGS FOR CONCRETE PADS AND BOLLARD LOCATIONS AT EXTERIOR DOORS.
- 11 BUILDING INCLUDES HIGH-PILED STORAGE.



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SUBMITTED: _____
PROJECT MANAGER

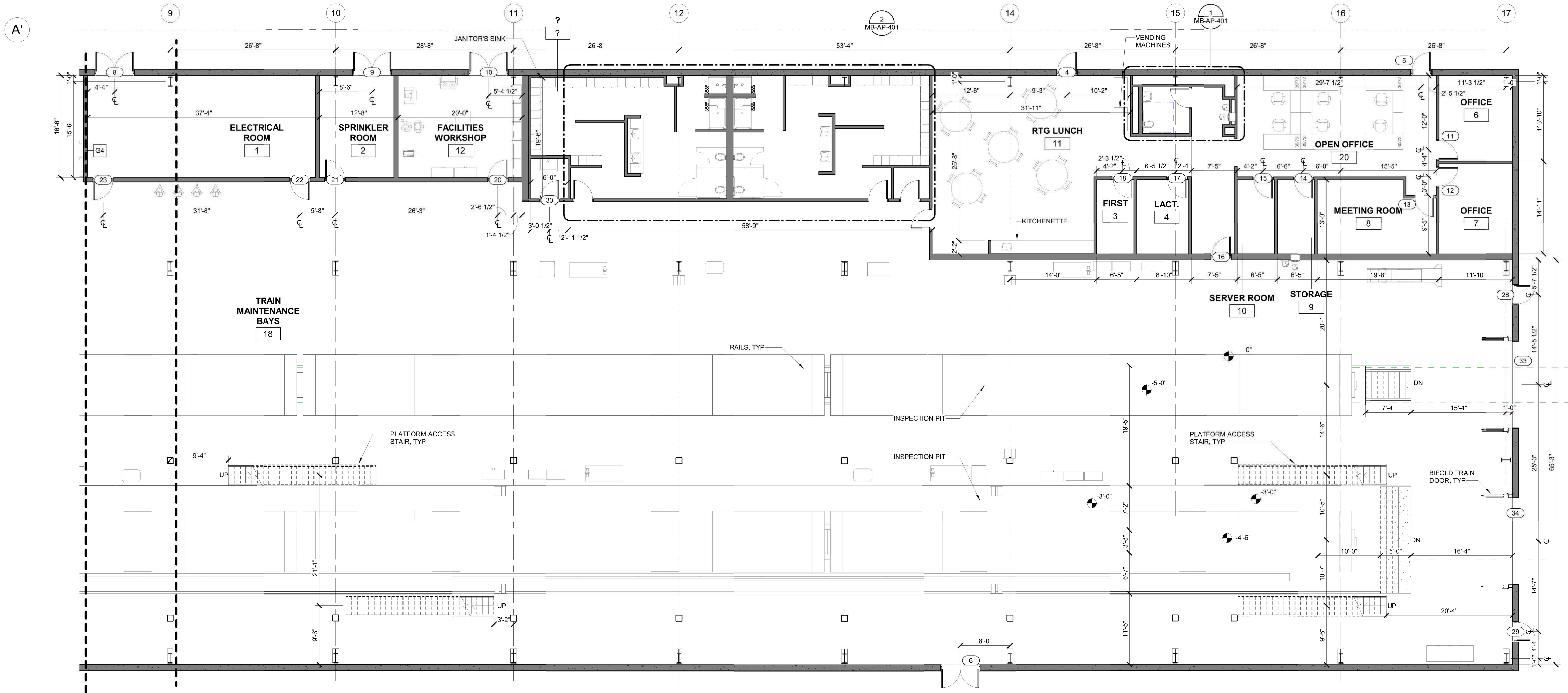
APPROVED: _____

ARCHITECTURE
MAINTENANCE BUILDING - PART PLAN I

CASE NO. 00846471-PCPU	
CONTRACT NO. C91143	
DRAWING NO. CUP-037A	
REVISION 3	SHEET NO. 37
SCALE 1/8" = 1'-0"	

Local File: BM 360-067272 - Metrolink Orange County Maintenance Facility\067272_MB_A_central_R20_BM360.rvt
Central File: BM360\A_central_R20.rvt

Project Number: #####
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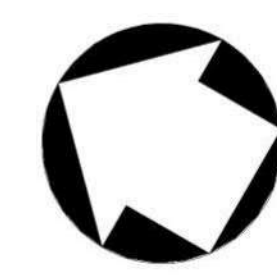
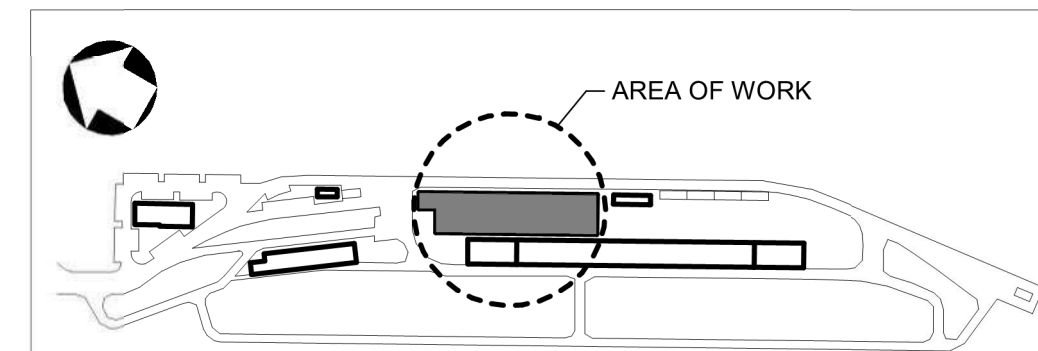
1 GROUND LEVEL PLAN (PART 2 OF 2)
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

- MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE.
- DIMENSIONS AT CMU WALLS ARE TO THE FACE OF CMU UNLESS NOTED OTHERWISE.
- DIMENSIONS AT INTERIOR STUD WALLS ARE TO THE CENTERLINE OF STUD UNLESS NOTED OTHERWISE.
- DIMENSIONS FOLLOWED BY AN ASTERISK (*) ARE TO THE FACE OF STUD ON ONE OR BOTH SIDES.
- PROVIDE LINTELS FOR OPENINGS IN MASONRY WALLS INCLUDING BUT NOT LIMITED TO OPENINGS FOR DOORS, WINDOWS, LOUVERS, AND MECHANICAL AND ELECTRICAL PENETRATIONS.
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FLOOR PLAN NOTES

- THE INSIDE EDGE OF DOOR FRAMES SHALL BE SET 6" CLEAR FROM THE FINISH FACE OF THE ADJACENT PERPENDICULAR PARTITION UNLESS OTHERWISE DIMENSIONED.
- PROVIDE SUFFICIENT BLOCKING INSIDE THE WALLS FOR INSTALLATION OF CASEWORK, TOILET ACCESSORIES, PROJECTOR BRACKETS, PROJECTION SCREENS, MARKER BOARDS, TACK BOARDS, CHALK BOARDS, TELEVISION BRACKETS, AND ALL OTHER WALL MOUNTED EQUIPMENT.
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- SEE CIVIL DRAWINGS FOR CONCRETE PADS AND BOLLARD LOCATIONS AT EXTERIOR DOORS.
- BUILDING INCLUDES HIGH-PILED STORAGE.



REV	DATE	DESCRIPTION	BY	APP
3	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION - 3		
2	01/05/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2		
1	10/13/2021	CONDITIONAL USE PERMIT SUBMITTAL REVISION 1		
0	06/30/2021	CONDITIONAL USE PERMIT SUBMITTAL		

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DESIGNED BY
JML
DRAWN BY
JML
CHECKED BY
RW
APPROVED BY
RW
DATE:
04/11/2022

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ONLY
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CONSTRUCTION

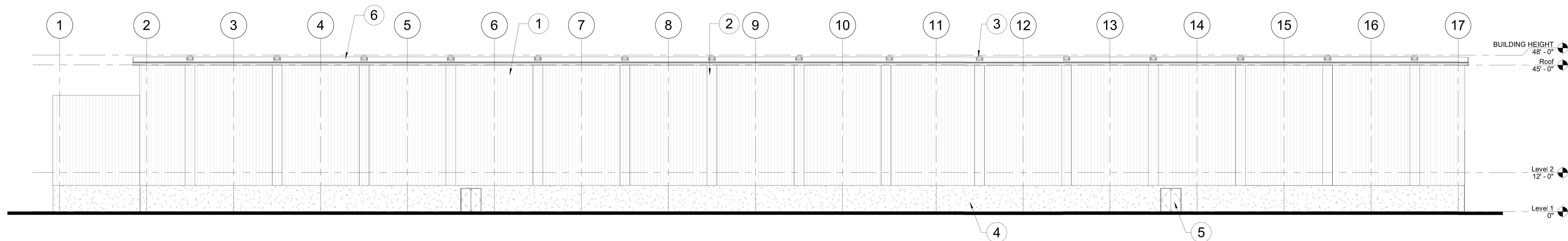
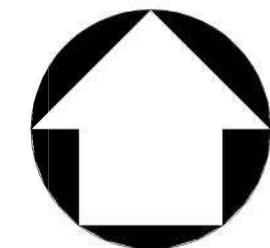


SUBMITTED: _____
PROJECT MANAGER
APPROVED: _____

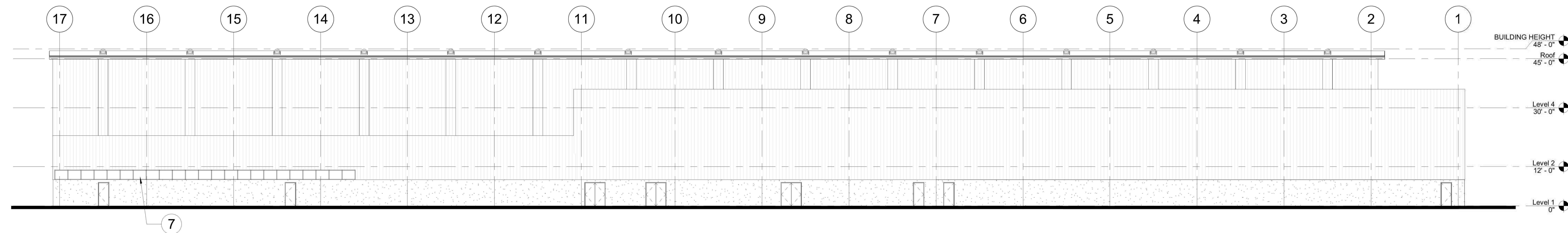
METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

ARCHITECTURE
MAINTENANCE BUILDING - PART PLAN II

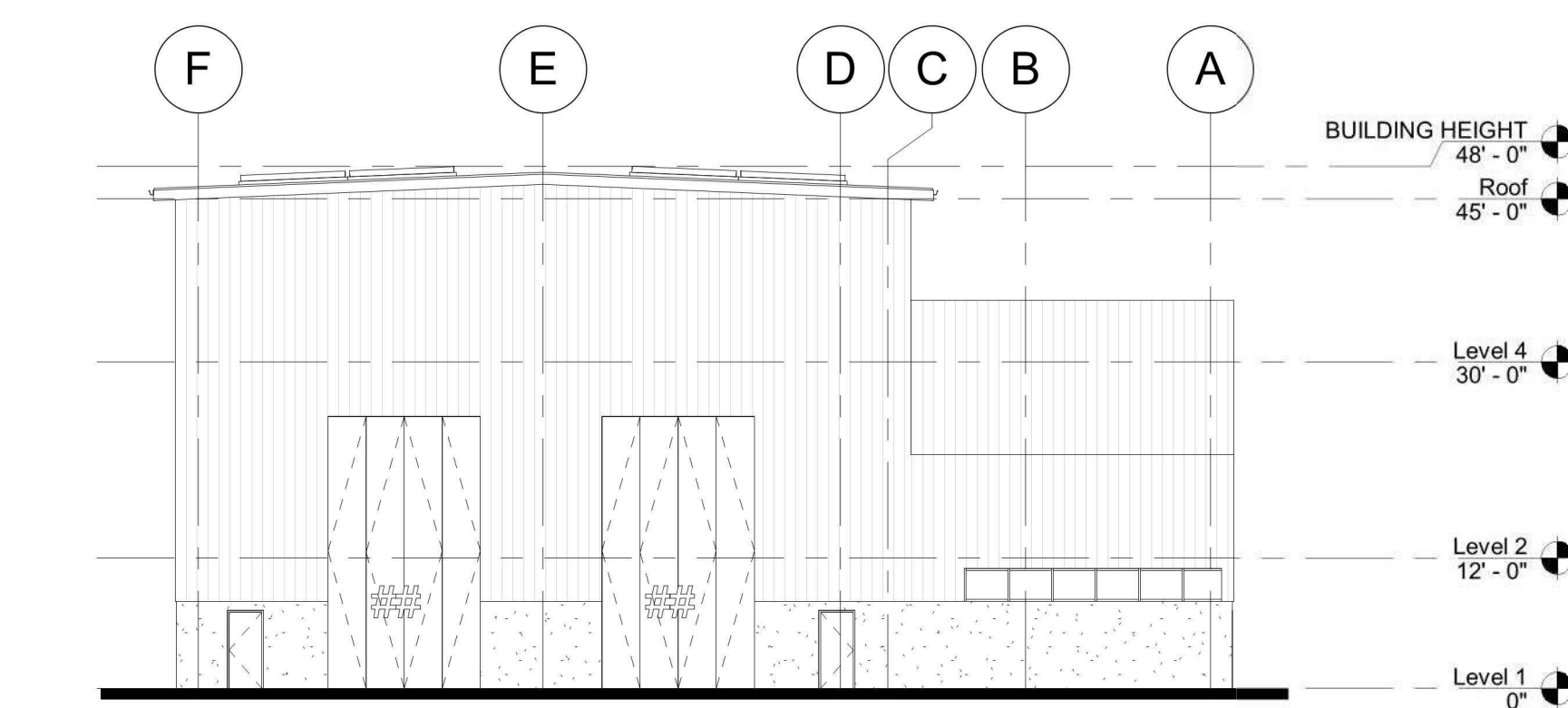
CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-037B
REVISION	3
SHEET NO.	38
SCALE	1/8" = 1'-0"



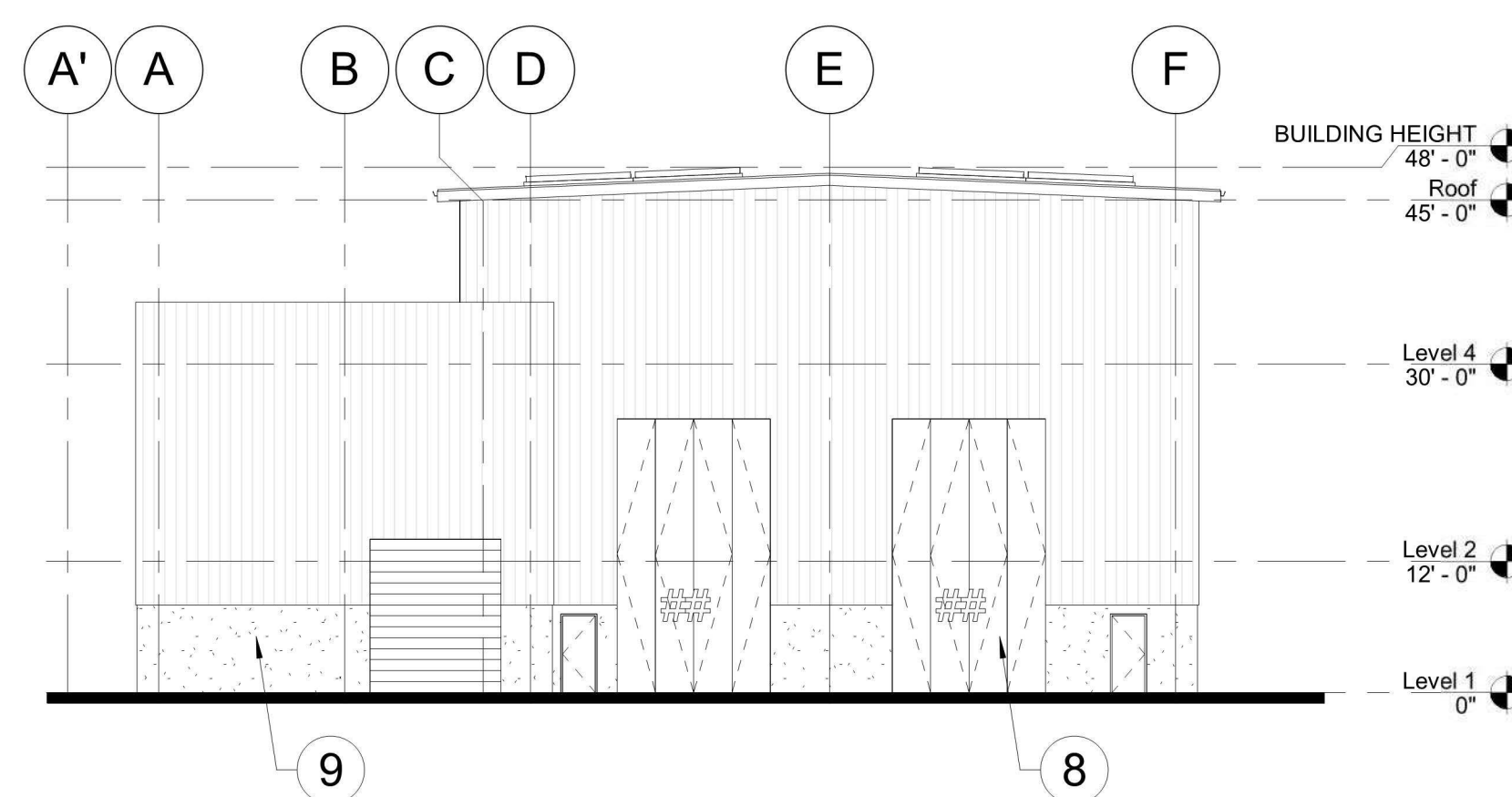
1 SOUTH ELEVATION
CUP-038 REF: A104 SCALE: 1/16" = 1'-0"



2 NORTH ELEVATION
CUP-038 REF: A104 SCALE: 1/16" = 1'-0"

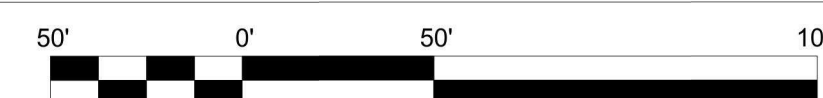


3 EAST ELEVATION
CUP-038 REF: A104 SCALE: 1/16" = 1'-0"



4 WEST ELEVATION
CUP-038 REF: A104 SCALE: 1/16" = 1'-0"

ELEVATION KEYNOTES	
MARK	DESCRIPTION
1	CORRUGATED METAL PANEL, TYP. COLOR SELECTION TO BE FINALIZED IN FUTURE DISCUSSIONS
2	TRANSLUCENT CORRUGATED PANEL, TYP.
3	SKYLIGHT, TYP.
4	CONCRETE PANEL OR CMU WALL IN STANDARD GREY COLOR. COLOR SELECTION TO BE FINALIZED IN FUTURE DISCUSSIONS
5	HOLLOW METAL DOOR
6	STANDING SEAM INSULATED METAL PANEL ROOF
7	TRANSOM STOREFRONT
8	OVERSIZED BIFOLD DOOR PER MANUFACTURER
9	ROLLUP DOOR



Local File: BIM 360/067272 - Metrolink Orange County Maintenance Facility/06727 MB_A_Central_AECOM_R20_BIM360.rvt
Project Number: Project Number
10/6/2021 11:28:52 AM

REV	DATE	DESCRIPTION	BY	APP
3	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3		
2	01/05/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2		
1	10/13/2021	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1		
0	06/30/2021	CONDITIONAL USE PERMIT SUBMITTAL		

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DESIGNED BY LC	FOR REVIEW ONLY NOT FOR CONSTRUCTION
DRAWN BY AL	
CHECKED BY JT	
APPROVED BY BF	
DATE: 04/11/2022	



METROLINK



Gannett Fleming

SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

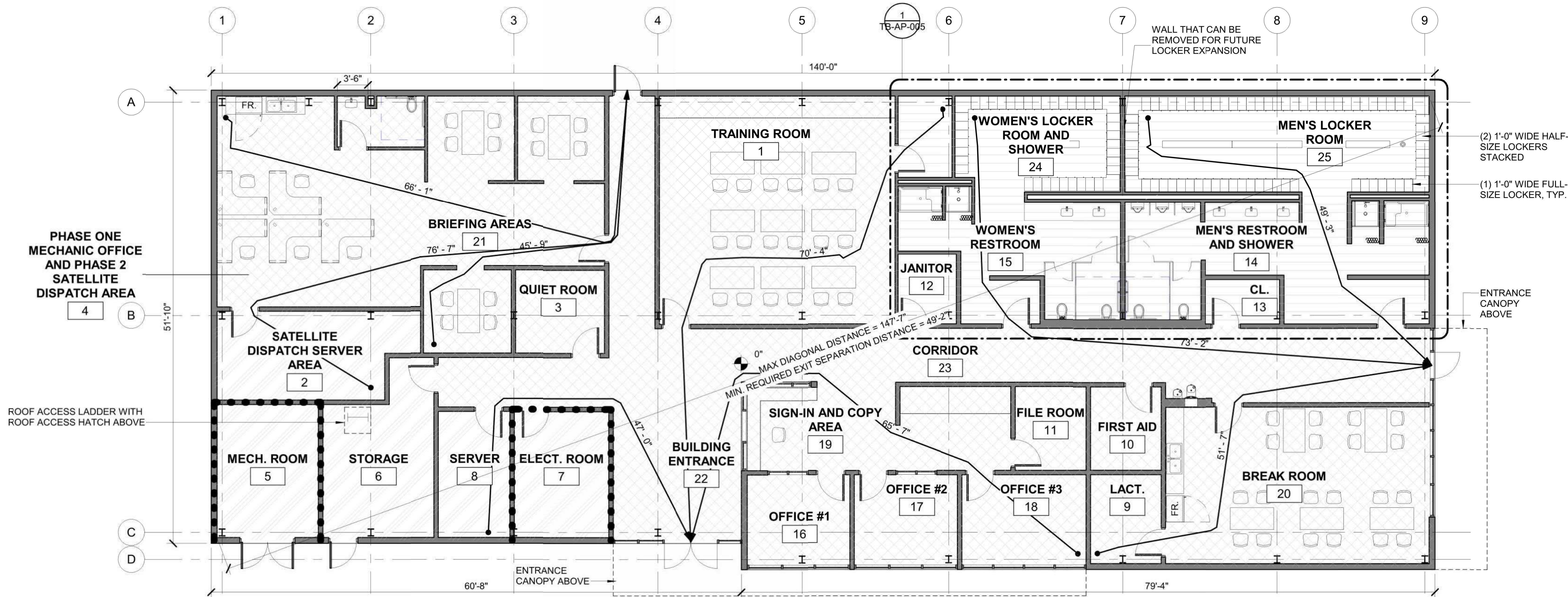
**METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT**

**ARCHITECTURE
MAINTENANCE BUILDING ELEVATIONS**

CASE NO. 00846471-PCPU	
CONTRACT NO.	
DRAWING NO. CUP-038	
REVISION 3	SHEET NO. 39
SCALE 1/16" = 1'-0"	

Local File: BM 360/067272 - Metrolink Orange County Maintenance Facility/067272_TB_A_central_R20_BIM360.rvt
Central File: BM360\A_central_R20.rvt

Project Number: #####
10/11/2021 3:28:43 PM



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

BUILDING INFORMATION

BUILDING NAME AND DESCRIPTION:

TRANSPORTATION BUILDING - ONE STORY STEEL FRAMED FACILITY WITH EMERGENCY DISPATCH AREA, LOCKER ROOMS, AND OFFICE FUNCTIONS.

BUILDING SIZE:

FIRST FLOOR - 7,495 S.F.

CONSTRUCTION TYPE:

TYPE 2-B

FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS (PER CBC TABLE 601):

- STRUCTURAL FRAME - 0 HOURS
- BEARING WALLS (EXTERIOR AND INTERIOR) - 0 HOURS
- FLOOR CONSTRUCTION - 0 HOURS
- ROOF CONSTRUCTION - 0 HOURS
- ROOF ASSEMBLY - 0 HOURS

FIRE PROTECTION:

- FULLY SPRINKLERED, AUTOMATIC SPRINKLER SYSTEM AND FIRE ALARM SYSTEM COMPLYING WITH NFPA-13 (CBC SECTION 903.1.1)

OCCUPANCY GROUPS (PER CBC SECTION 302):

- BUSINESS GROUP B (CBC SECTION 304)

ALLOWABLE BUILDING HEIGHT AND BUILDING AREA:

- TYPE 2B CONSTRUCTION, OCCUPANCY GROUP B
- 75'-0" ALLOWABLE BUILDING HEIGHT (PER CBC TABLE 504.3)
- 92,000 SF ALLOWABLE AREA (PER CBC TABLE 506.2)

MAXIMUM EXIT ACCESS TRAVEL DISTANCE (PER CBC TABLE 1017.2):

- BUSINESS GROUP B - 300 FEET
- MAXIMUM EXIT ACCESS TRAVEL DISTANCE PROVIDED - 102'-2"

SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY (PER CBC TABLE 1006.2.1):

MAXIMUM COMMON PATH OF TRAVEL DISTANCE:
BUSINESS GROUP B - 100 FEET

EXIT SEPARATION DISTANCE (PER CBC SECTION 1007.1.1):

- BUSINESS GROUP B -
 - MAX DIAGONAL DIMENSION OF SPACE - 147'-6"
 - MIN. REQUIRED EXIT SEPARATION DISTANCE (SPRINKLERED BUILDING) - 1/3 x 147'-6" = 49'-2"

MAXIMUM OCCUPANT LOAD FACTORS (PER CBC TABLE 1004.5):

- OFFICE - 150 SF (GROSS)
- LOCKER ROOMS - 50 SF (GROSS)
- ACCESSORY AREAS LESS THAN 10% OF TOTAL BUILDING AREA (AS PER CBC SECTION 508.2.3) - 300 SF (GROSS)
 - 10% OF TOTAL BUILDING AREA = 749 SF
 - STORAGE AREA = 275 SF < 749 SF
 - MECH. ROOM = 202 SF < 749 SF
 - SERVER ROOM 1 = 133 SF < 749 SF
 - SERVER ROOM 2 = 215 SF < 749 SF
 - ELEC. ROOM = 173 SF < 749 SF

OCCUPANT LOAD CALCULATIONS (PER CBC TABLE 1004.5):

- OFFICE - 4,815 SF / 150 SF = 33 OCCUPANTS
- LOCKER ROOMS - 1,690 SF / 50 SF = 34 OCCUPANTS
- ACCESSORY STORAGE AREA - 275 SF / 300 SF = 91 OR (1) OCCUPANT
- ACCESSORY MECH. ROOM - 202 SF / 300 = 67 OR (1) OCCUPANT
- ACCESSORY SERVER AREA 1 - 133 SF / 300 = 44 OR (1) OCCUPANT
- ACCESSORY SERVER AREA 2 - 215 SF / 300 = 72 OR (1) OCCUPANT
- ACCESSORY ELEC. ROOM - 173 SF / 300 SF = 58 OR (1) OCCUPANT
- TOTAL = 72 OCCUPANTS (MEN TO WOMEN RATIO = 80/20)

MINIMUM REQUIRED PLUMBING FIXTURES (PER CPC TABLE 403.1):

BUSINESS GROUP B = 72 OCCUPANTS - 58 MEN, 14 WOMEN

- WATER CLOSETS = 3 (MEN), 1 (WOMEN)
- LAVATORIES = 2 (MEN), 1 (WOMEN)
- DRINKING FOUNTAIN = 1
- SERVICE SINK = 1

FLOOR PLAN NOTES

- MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE.
- DIMENSIONS AT CMU WALLS ARE TO THE FACE OF CMU UNLESS NOTED OTHERWISE.
- DIMENSIONS AT INTERIOR STUD WALLS ARE TO THE CENTERLINE OF STUD UNLESS NOTED OTHERWISE.
- DIMENSIONS FOLLOWED BY AN ASTERISK (*) ARE TO THE FACE OF STUD ON ONE OR BOTH SIDES.
- PROVIDE LINTELS FOR OPENINGS IN MASONRY WALLS INCLUDING BUT NOT LIMITED TO OPENINGS FOR DOORS, WINDOWS, LOUVERS, AND MECHANICAL AND ELECTRICAL PENETRATIONS.
- ARCHITECTURAL DRAWINGS SHOW FLOOR DRAINS, TRENCH DRAINS, AND FLOOR HATCHES IN FINISHED FLOOR AREAS ONLY. REFER TO STRUCTURAL AND PLUMBING DRAWINGS FOR FLOOR DRAINS, TRENCH DRAINS, AND FLOOR HATCHES IN NON-FINISHED FLOOR AREAS.

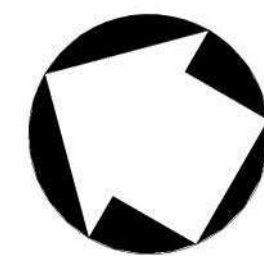
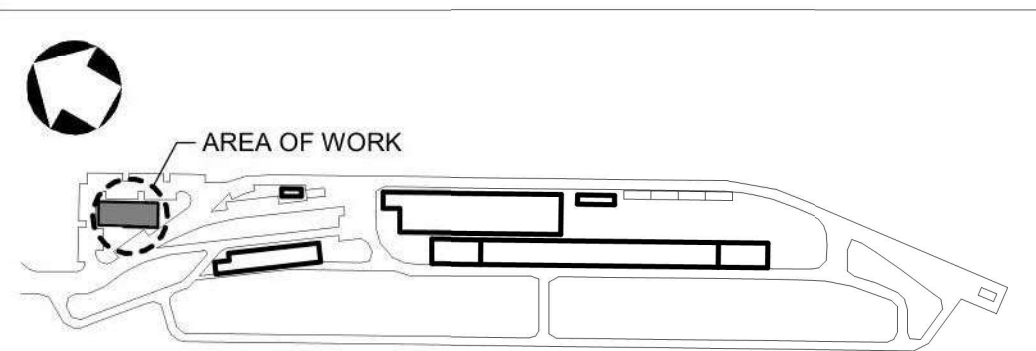
FLOOR PLAN NOTES

- THE INSIDE EDGE OF DOOR FRAMES SHALL BE SET 6" CLEAR FROM THE FINISH FACE OF THE ADJACENT PERPENDICULAR PARTITION UNLESS OTHERWISE DIMENSIONED.
- PROVIDE SUFFICIENT BLOCKING INSIDE THE WALLS FOR INSTALLATION OF CASEWORK, TOILET ACCESSORIES, PROJECTOR BRACKETS, PROJECTION SCREENS, MARKER BOARDS, TACK BOARDS, CHALK BOARDS, TELEVISION BRACKETS, AND ALL OTHER WALL MOUNTED EQUIPMENT.
- TACK BOARDS, MARKER BOARDS, AND TELEVISION BRACKETS SHOWN ON PLAN ARE FOR THE PURPOSES OF DETERMINING TENTATIVE LOCATIONS AND QUANTITY. FINAL LOCATIONS TO BE CONFIRMED IN THE FIELD BY THE OWNER.
- SEE CIVIL DRAWINGS FOR CONCRETE PADS AND BOLLARD LOCATIONS AT EXTERIOR DOORS.
- SEE INDUSTRIAL DRAWINGS FOR EQUIPMENT

DRAWING LEGEND

- OFFICE
- LOCKER ROOMS
- ACCESSORY AREAS
- 1 HR RATED FIRE WALL
- PATH OF EGRESS

FURNITURE SCHEDULE			
Type Mark	Family	Description	Count
BREAK ROOM			
ADSK_US_I_19_Chair-Desk			20
ADSK_US_M_Table-Rectangular			5
BRIEFING AREAS			
ADSK_US_I_19_Chair-Desk			12
ADSK_US_M_Table-Rectangular			3
PHASE ONE MECHANIC OFFICE AND PHASE 2 SATELLITE DISPATCH AREA			
ADSK_US_I_19_Chair-Desk			5
ADSK_US_I_19_Furniture_System-Standing_Desk-L_ with_Square_End-Corner_Angled			5
SIGN-IN AND COPY AREA			
ADSK_US_I_19_Chair-Desk			1
TRAINING ROOM			
ADSK_US_I_19_Chair-Desk			18
ADSK_US_M_Table-Rectangular			9



REV	DATE	DESCRIPTION	BY	APP
3	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3		
2	01/05/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2		
1	10/13/2021	CONDITIONAL USE PERMIT SUBMITTAL REVISION 1		
0	06/30/2021	CONDITIONAL USE PERMIT SUBMITTAL		

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JML
DRAWN BY
JML
CHECKED BY
RW
APPROVED BY
RW
DATE:
04/11/2022

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METROLINK



Gannett Fleming

SUBMITTED: _____
PROJECT MANAGER

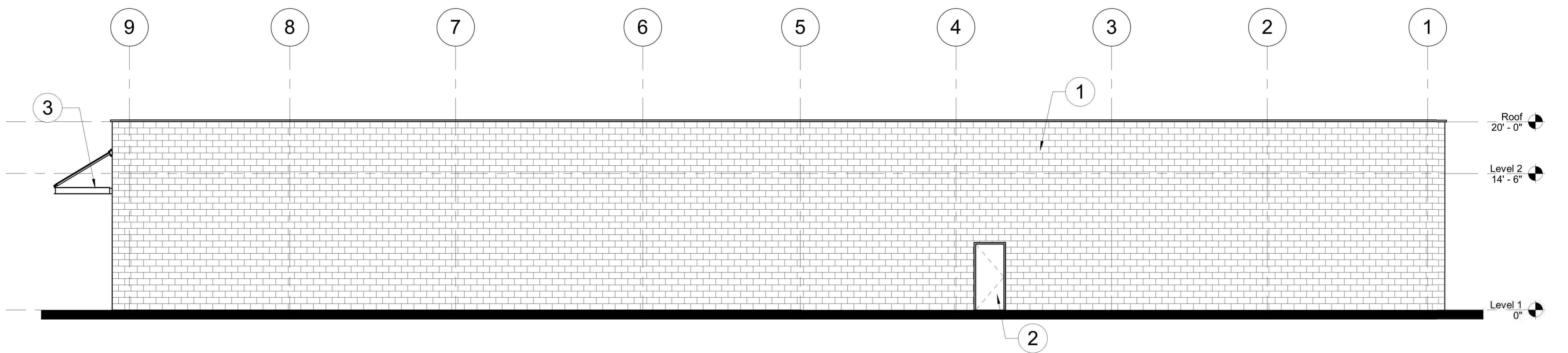
APPROVED: _____

**METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT**

ARCHITECTURE
TRANSPORTATION BUILDING OVERALL FLOOR PLAN

CASE NO. 00846471-PCPU
CONTRACT NO. C91143
DRAWING NO. CUP-039
REVISION 3 SHEET NO. 40
SCALE As indicated

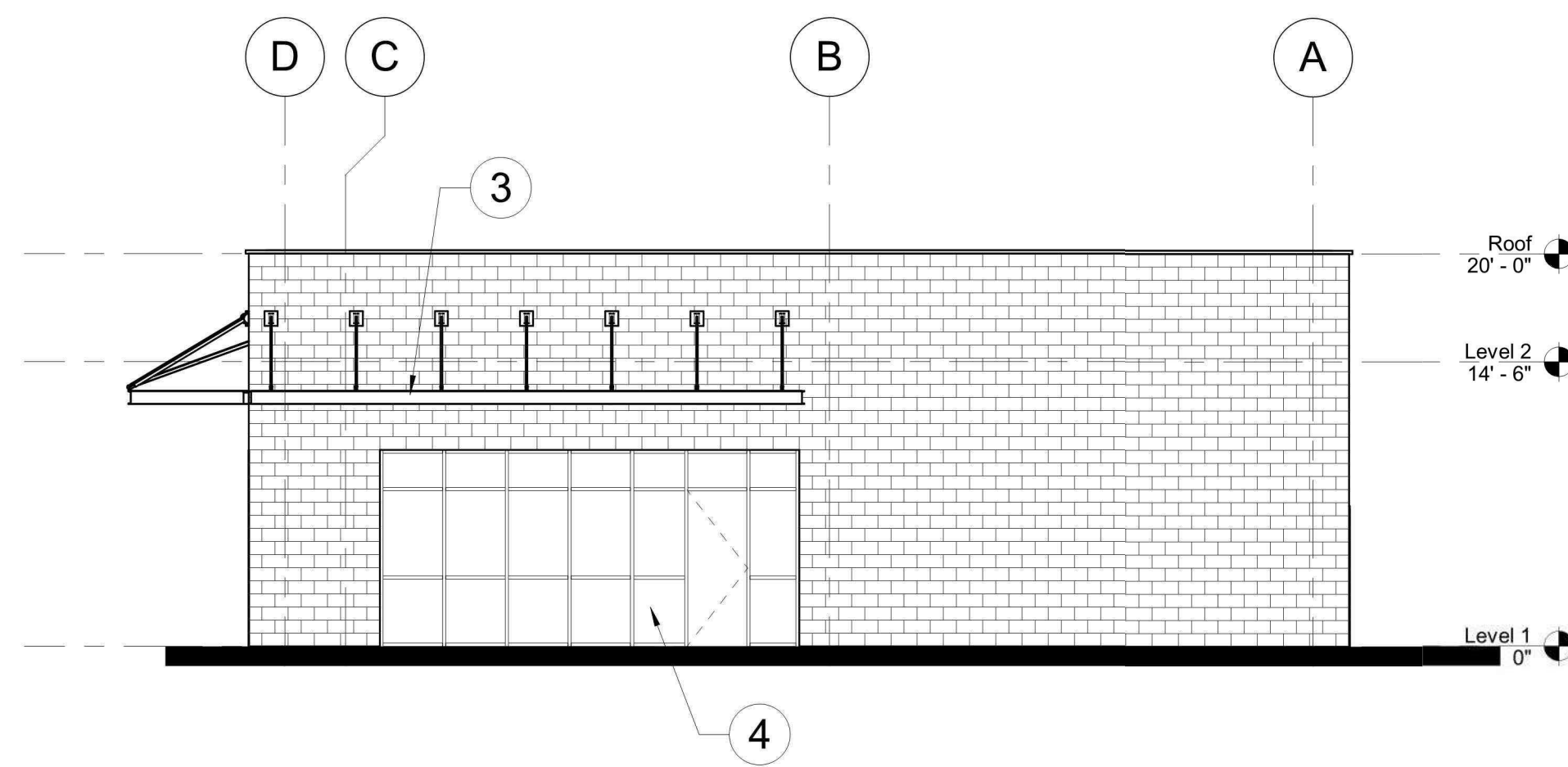
Project Number: Project Number 10/6/2021 11:30:13 AM
Local File BIM 360/067272 - Metrolink Orange County Maintenance Facility/067272_TB_A_central_AECOM_R20_BIM360.rvt



1 | NORTH ELEVATION

CUP-040 REF: A102

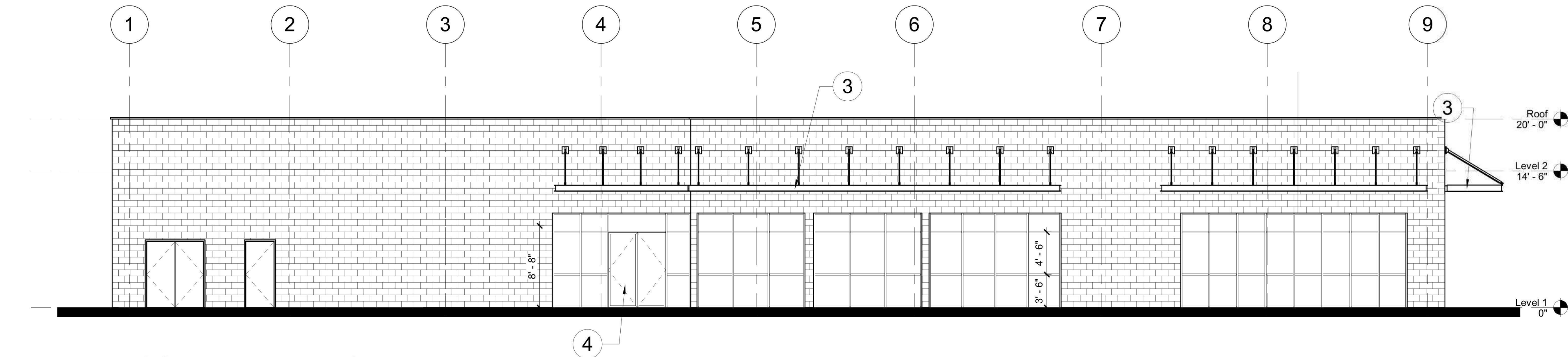
SCALE: 1/8" = 1'-0"



2 | EAST ELEVATION

CUP-040 REF: A102

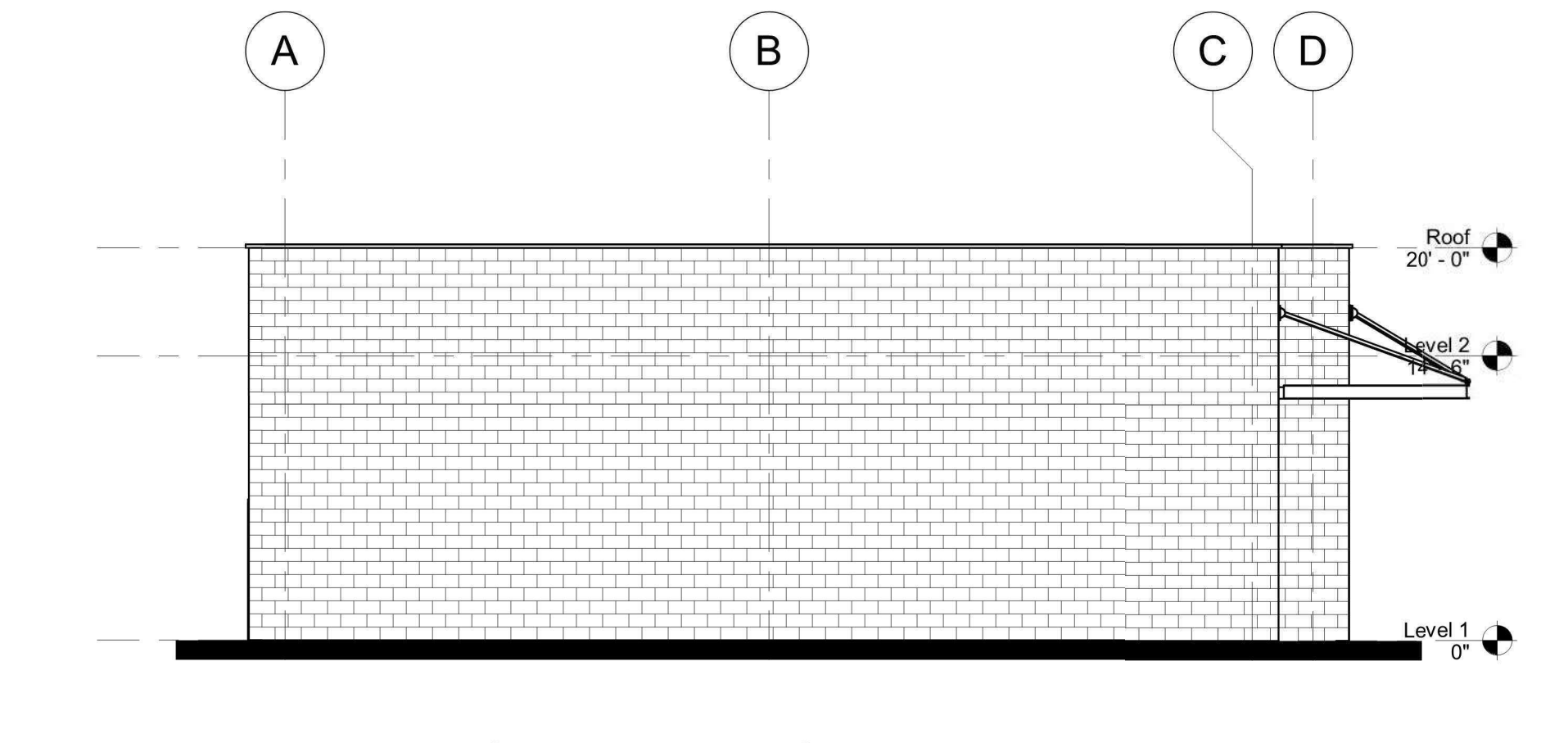
SCALE: 1/8" = 1'-0"



3 | SOUTH ELEVATION

CUP-040 REF: A102

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

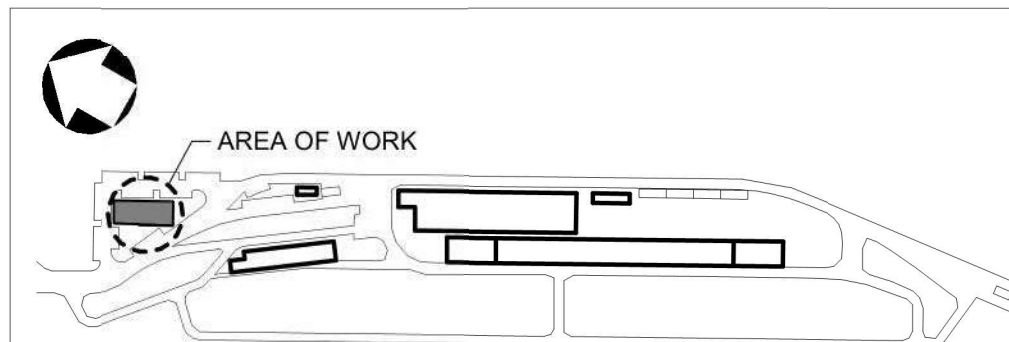


4 | WEST ELEVATION

CUP-040 REF: A102

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

ELEVATION KEYNOTES	
MARK	DESCRIPTION
1	CMU WALL OR CONCRETE PANEL, IN STANDARD GREY COLOR. COLOR SELECTION TO BE FINALIZED IN FUTURE DISCUSSIONS
2	HOLLOW METAL DOOR, TYP.
3	CANOPY
4	ALUMNIMUM STOREFRONT SYSTEM, TYP.



REV	DATE	DESCRIPTION	BY	APP
3	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION - 3		
2	01/05/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2		
1	10/13/2021	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1		
0	06/30/2021	CONDITIONAL USE PERMIT SUBMITTAL		

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DRAWN BY AL	
CHECKED BY JT	
APPROVED BY BF	
DATE: 04/11/2022	



METROLINK



Gannett Fleming

SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

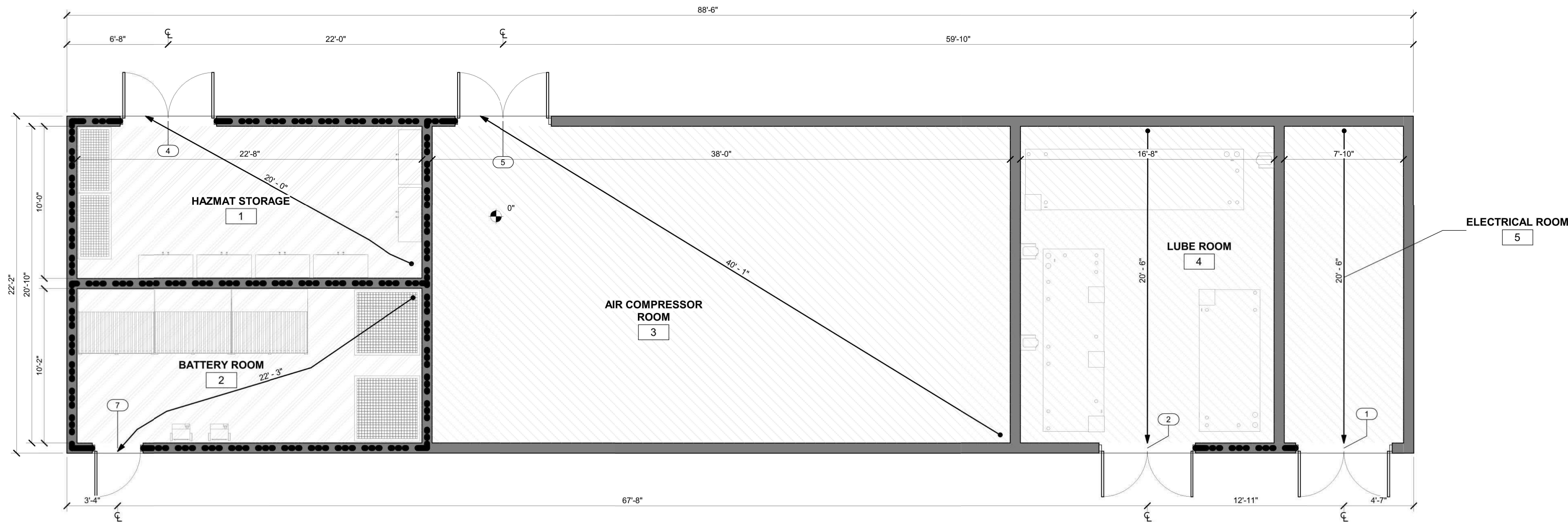
METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

ARCHITECTURE
TRANSPORTATION BUILDING ELEVATIONS

CASE NO.	00846471-PCPU
CONTRACT NO.	
DRAWING NO.	CUP-040
REVISION 3	SHEET NO. 41
SCALE	1/8" = 1'-0"

Local File: BM 360/067272 - Metrolink Orange County Maintenance Facility/067272_UB_A_central_R20_BIM360.rvt
Central File: BM360\A_central_R20.rvt

Project Number: #####
10/11/2021 3:05:06 PM



1 **UTILITY BUILDING**
SCALE: 1/4" = 1'-0"

BUILDING INFORMATION

BUILDING NAME AND DESCRIPTION:

MAINTENANCE BUILDING - ONE STORY UTILITY BUILDING MADE OF CMU WITH HAZARDOUS STORAGE, AIR COMPRESSOR ROOM AND LUBE ROOM (UNOCCUPIED).

BUILDING SIZE:

FIRST FLOOR - 981 S.F.

CONSTRUCTION TYPE:

TYPE 2-B

FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS (PER CBC TABLE 601):

- STRUCTURAL FRAME - 0 HOURS
- BEARING WALLS (EXTERIOR AND INTERIOR) - 0 HOURS
- FLOOR CONSTRUCTION - 0 HOURS
- ROOF CONSTRUCTION - 0 HOURS
- ROOF ASSEMBLY - 0 HOURS

FIRE PROTECTION:

- FULLY SPRINKLERED, AUTOMATIC SPRINKLER SYSTEM AND FIRE ALARM SYSTEM COMPLYING WITH NFPA-13 (CBC SECTION 903.1.1)

OCCUPANCY GROUPS (PER CBC SECTION 302):

- GROUP H-2 OCCUPANCIES SHALL BE SEPARATED FROM UTILITY GROUP U OCCUPANCIES BY 3 HOURS (PER CBC TABLE 508.4).
- UTILITY GROUP U (CBC SECTION 312)
- HIGH-HAZARD GROUP H-2 (CBC SECTION 307.4)

AS PER CBC SECTION 307.1.1 - AN OCCUPANCY THAT STORES, USES, OR HANDLES HAZARDOUS MATERIALS AS DESCRIBED SHALL NOT BE CLASSIFIED AS GROUP H, BUT SHALL BE CLASSIFIED AS THE OCCUPANCY THAT IT MOST NEARLY RESEMBLES:

- CLOSED PIPING SYSTEM CONTAINING FLAMMABLE OR COMBUSTIBLE LIQUIDS OR GASES UTILIZED FOR THE OPERATION OF MACHINERY OR EQUIPMENT.
- DISPLAY AND STORAGE OF NONFLAMMABLE SOLID AND NONFLAMMABLE OR NONCOMBUSTIBLE LIQUID HAZARDOUS MATERIALS IN QUANTITIES NOT EXCEEDING THE MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA IN GROUP M OR S OCCUPANCIES COMPLYING WITH SECTION 414.2.5.

ALLOWABLE BUILDING HEIGHT AND BUILDING AREA:

- TYPE 2B CONSTRUCTION, OCCUPANCY GROUP F-1, GROUP B, & GROUP S-1
- 55'-0" ALLOWABLE BUILDING HEIGHT (PER CBC TABLE 504.3)
- 7,000 SF ALLOWABLE AREA (PER CBC TABLE 506.2)

SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY (PER CBC TABLE 1006.2.1):

MAXIMUM COMMON PATH OF TRAVEL DISTANCE:

- UTILITY GROUP U - 75 FEET
- HIGH-HAZARD GROUP H-2 - 25 FEET

MAXIMUM EXIT ACCESS TRAVEL DISTANCE (PER CBC TABLE 1017.2):

- UTILITY GROUP U - 400 FEET
- HIGH-HAZARD GROUP H-2 - 100 FEET

EXIT SEPARATION DISTANCE (PER CBC SECTION 1007.1.1):

- HAZARDOUS STORAGE AREA -

- MAX DIAGONAL DIMENSION OF SPACE - 24'-9"
- MIN. REQUIRED EXIT SEPARATION DISTANCE (SPRINKLERED BUILDING) - 1/3 x 24'-9" = 8'-3"

MAXIMUM OCCUPANT LOAD FACTORS (PER CBC TABLE 1004.5):

- MECHANICAL EQUIPMENT ROOMS - 300 SF (GROSS)
- HAZARDOUS STORAGE AREA - 300 SF (GROSS)

OCCUPANT LOAD CALCULATIONS (PER CBC TABLE 1004.5):

- MECHANICAL EQUIPMENT ROOM 1 - 850 SF / 300 SF = 3 OCCUPANTS
- MECHANICAL EQUIPMENT ROOM 2 - 380 SF / 300 SF = 2 OCCUPANTS
- MECHANICAL EQUIPMENT ROOM 3 - 200 SF / 300 SF = .66 OR (1) OCCUPANT
- HAZARDOUS STORAGE AREA 1 - 260 SF / 300 SF = .86 OR (1) OCCUPANT
- HAZARDOUS STORAGE AREA 2 - 260 SF / 300 SF = .86 OR (1) OCCUPANT
- BUILDING WILL BE UNOCCUPIED.

MINIMUM REQUIRED PLUMBING FIXTURES (PER CPC TABLE 403.1):

- NO MINIMUM REQUIRED PLUMBING FIXTURES FOR UTILITY GROUP U AND HIGH HAZARD GROUP H-2 OCCUPANCIES.

FLOOR PLAN NOTES

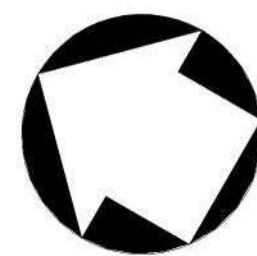
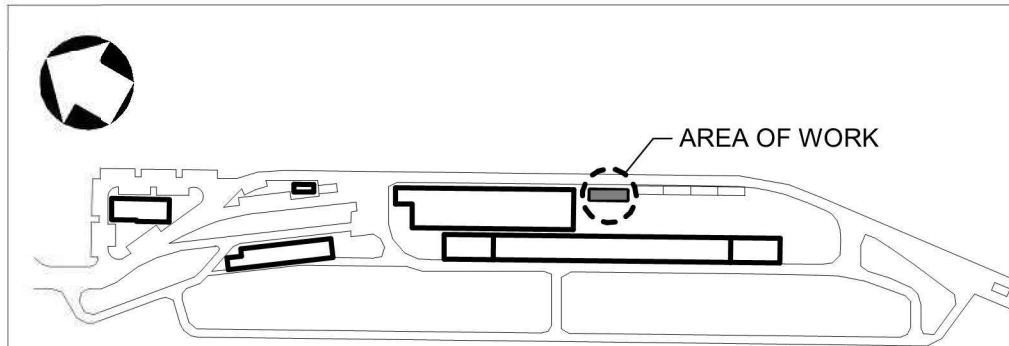
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- DIMENSIONS AT INTERIOR STUD WALLS ARE TO THE CENTERLINE OF STUD UNLESS NOTED OTHERWISE.
- DIMENSIONS FOLLOWED BY AN ASTERISK (*) ARE TO THE FACE OF STUD ON ONE OR BOTH SIDES.
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FLOOR PLAN NOTES

- THE INSIDE EDGE OF DOOR FRAMES SHALL BE SET 6" CLEAR FROM THE FINISH FACE OF THE ADJACENT PERPENDICULAR PARTITION UNLESS OTHERWISE DIMENSIONED.
- PROVIDE SUFFICIENT BLOCKING INSIDE THE WALLS FOR INSTALLATION OF CASEWORK, TOILET ACCESSORIES, PROJECTOR BRACKETS, PROJECTION SCREENS, MARKER BOARDS, TACK BOARDS, CHALK BOARDS, TELEVISION BRACKETS, AND ALL OTHER WALL MOUNTED EQUIPMENT.
- TACK BOARDS, MARKER BOARDS, AND TELEVISION BRACKETS SHOWN ON PLAN ARE FOR THE PURPOSES OF DETERMINING TENTATIVE LOCATIONS AND QUANTITY. FINAL LOCATIONS TO BE CONFIRMED IN THE FIELD BY THE OWNER.
- SEE CIVIL DRAWINGS FOR CONCRETE PADS AND BOLLARD LOCATIONS AT EXTERIOR DOORS.
- SEE INDUSTRIAL DRAWINGS FOR EQUIPMENT
- BATTERY ROOM SHALL BE USED FOR THE STORAGE OF BATTERIES FOR UPS BACKUP POWER

DRAWING LEGEND

- UTILITY
- HAZARDOUS STORAGE AREA
- 3 HR RATED FIRE WALL
- # - #"
- PATH OF EGRESS



REV	DATE	DESCRIPTION	BY	APP
3	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3		
2	01/05/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2		
1	10/13/2021	CONDITIONAL USE PERMIT SUBMITTAL REVISION 1		
0	06/30/2021	CONDITIONAL USE PERMIT SUBMITTAL		

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JML
DRAWN BY
JML
CHECKED BY
RW
APPROVED BY
RW
DATE:
04/11/2022

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METROLINK



Gannett Fleming

SUBMITTED: _____
PROJECT MANAGER

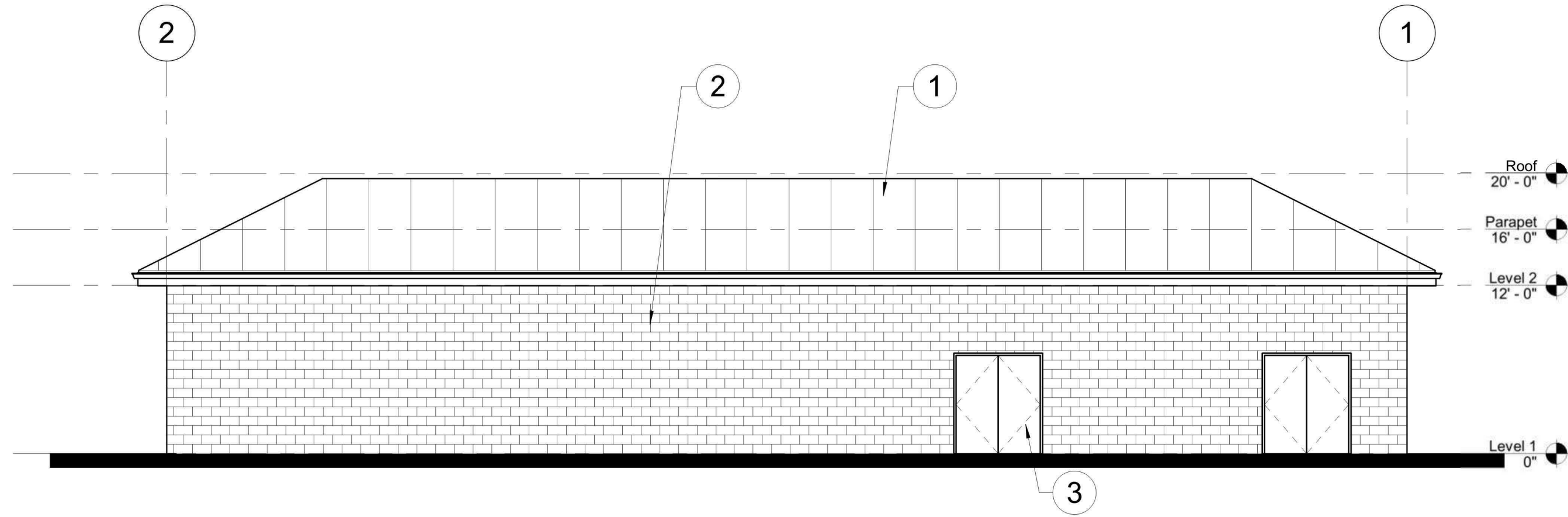
APPROVED: _____

**METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT**

ARCHITECTURE
UTILITY BUILDING - OVERALL FLOOR PLAN

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-041
REVISION	3
SHEET NO.	42
SCALE	As indicated

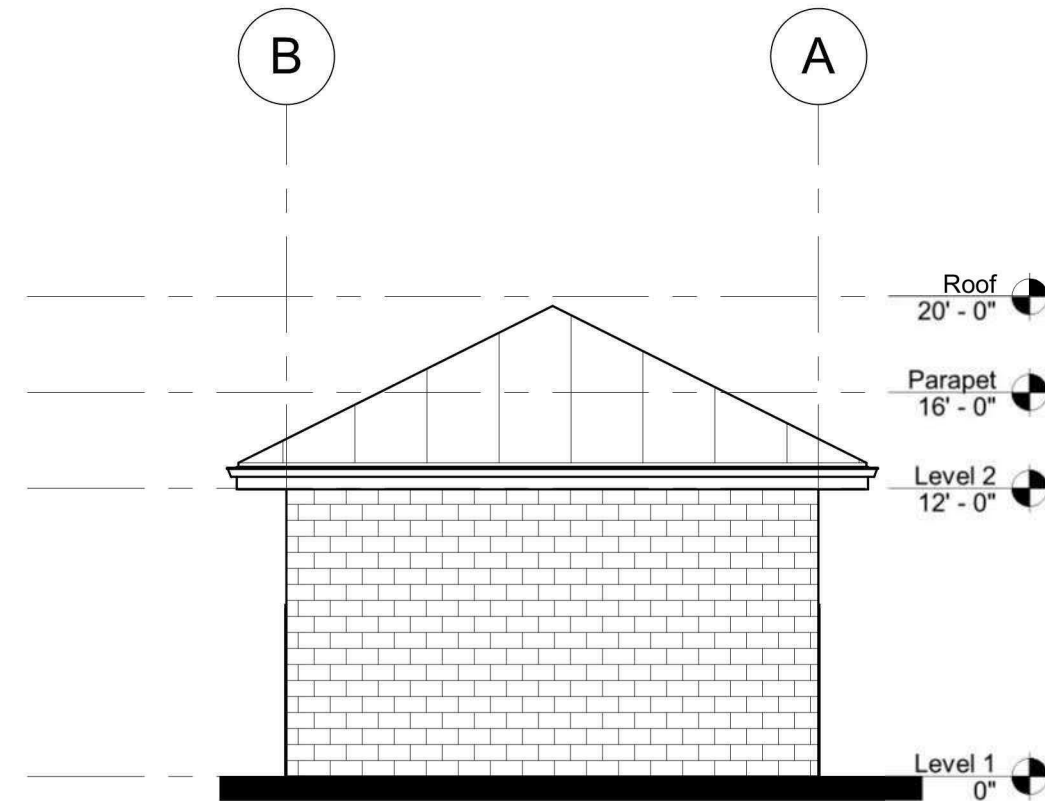
Local File:BM 360.0067272 - Metrolink Orange County Maintenance Facility\067272_UB_A_Central_AECOM_R20_BIM360.rvt
Project Number: Project Number
10/6/2021 11:36:08 AM



1 NORTH ELEVATION

CUP-042 REF: A103

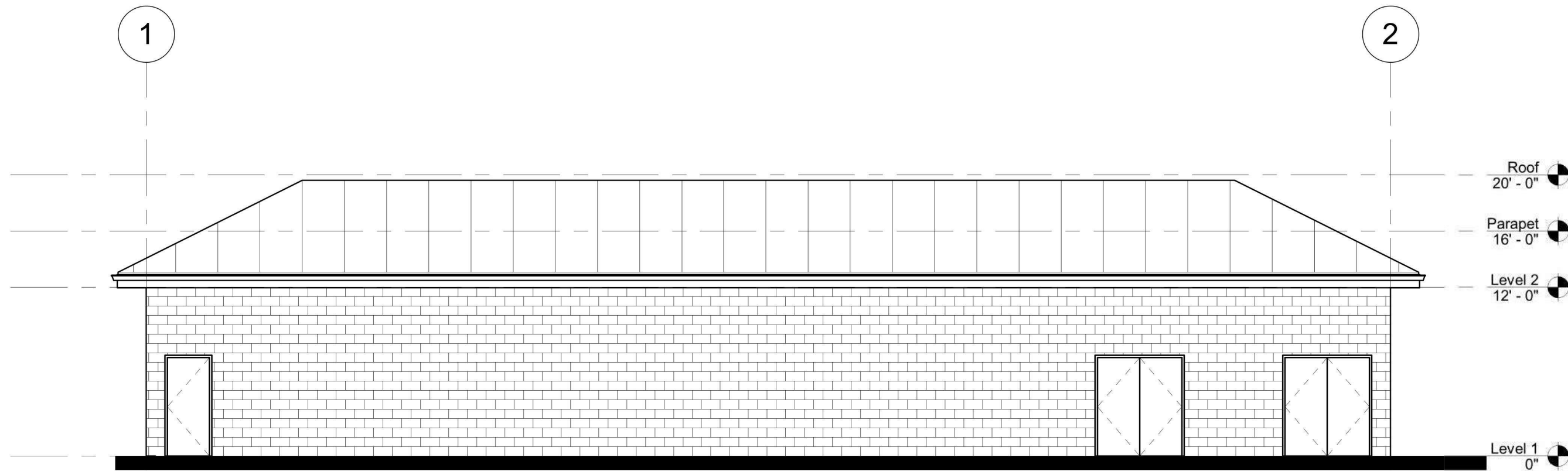
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2 EAST ELEVATION

CUP-042 REF: A103

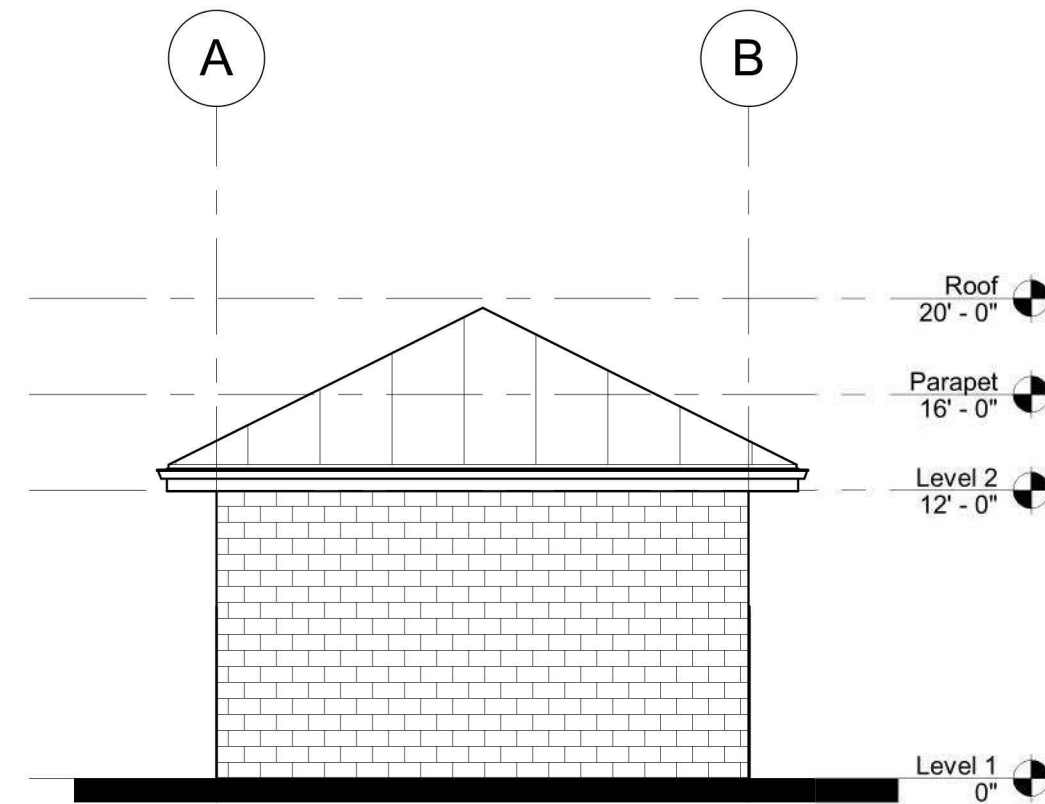
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3 SOUTH ELEVATION

CUP-042 REF: A103

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

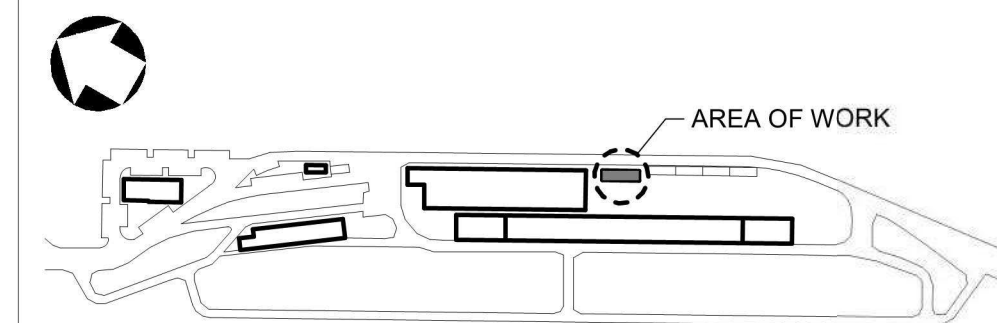


4 WEST ELEVATION

CUP-042 REF: A103

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

ELEVATION KEYNOTES	
MARK	DESCRIPTION
1	STANDING SEAM INSULATED METAL ROOF
2	CMU WALL OR CONCRETE PANEL, IN STANDARD GREY COLOR. COLOR SELECTION TO BE FINALIZED IN FUTURE DISCUSSIONS
3	HOLLOW METAL DOOR, TYP.



REV	DATE	DESCRIPTION	BY	APP
3	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION - 3		
2	01/05/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2		
1	10/13/2021	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1		
0	06/30/2021	CONDITIONAL USE PERMIT SUBMITTAL		

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DRAWN BY
AL
CHECKED BY
JT
APPROVED BY
BF
DATE:
04/11/2022

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METROLINK



Gannett Fleming

SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

**METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT**

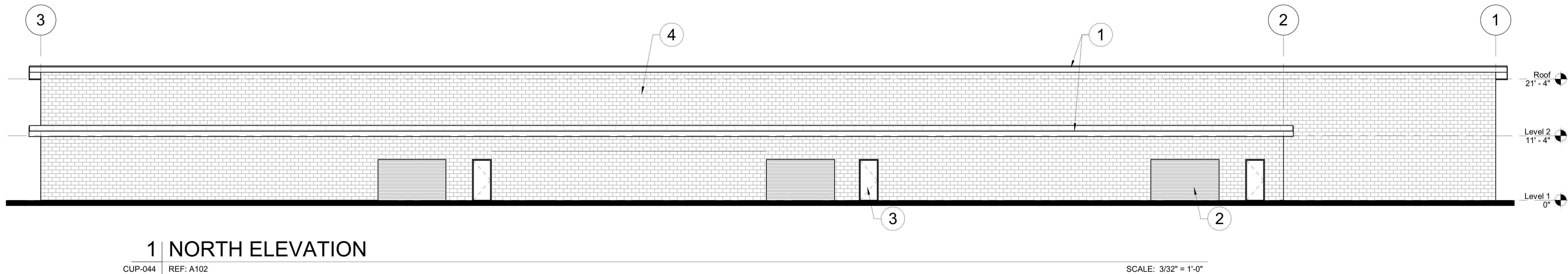
ARCHITECTURE
UTILITY BUILDING ELEVATIONS

CASE NO. 00846471-PCPU	
CONTRACT NO.	
DRAWING NO. CUP-042	
REVISION 3	SHEET NO. 43
SCALE 1/8" = 1'-0"	

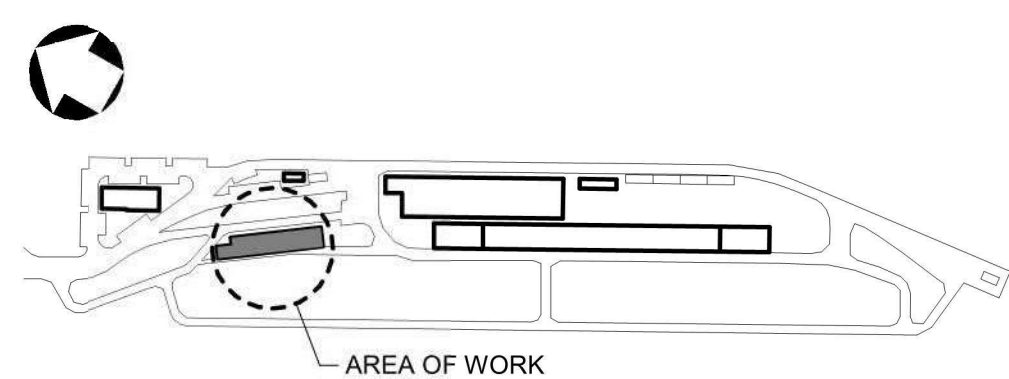
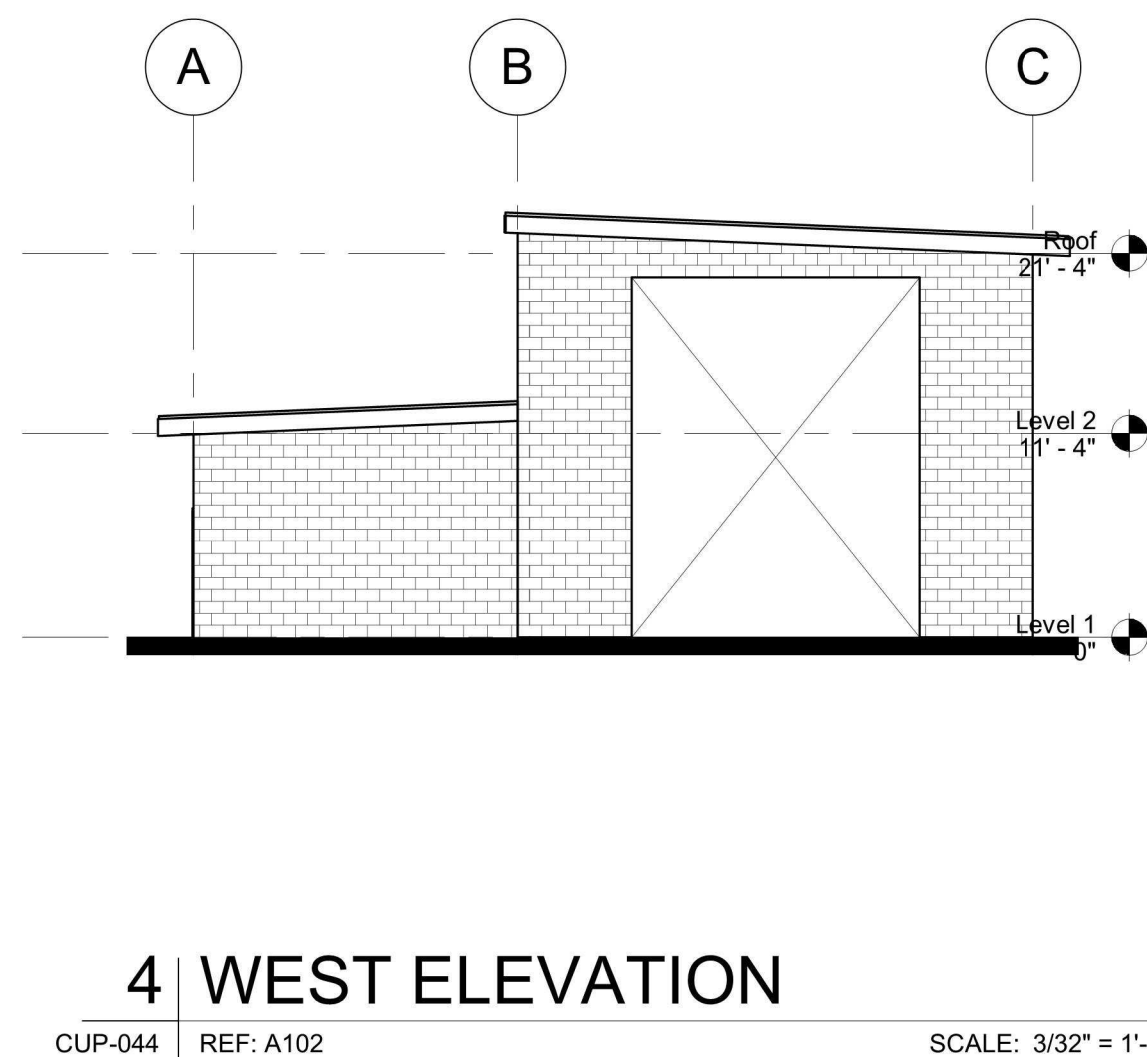
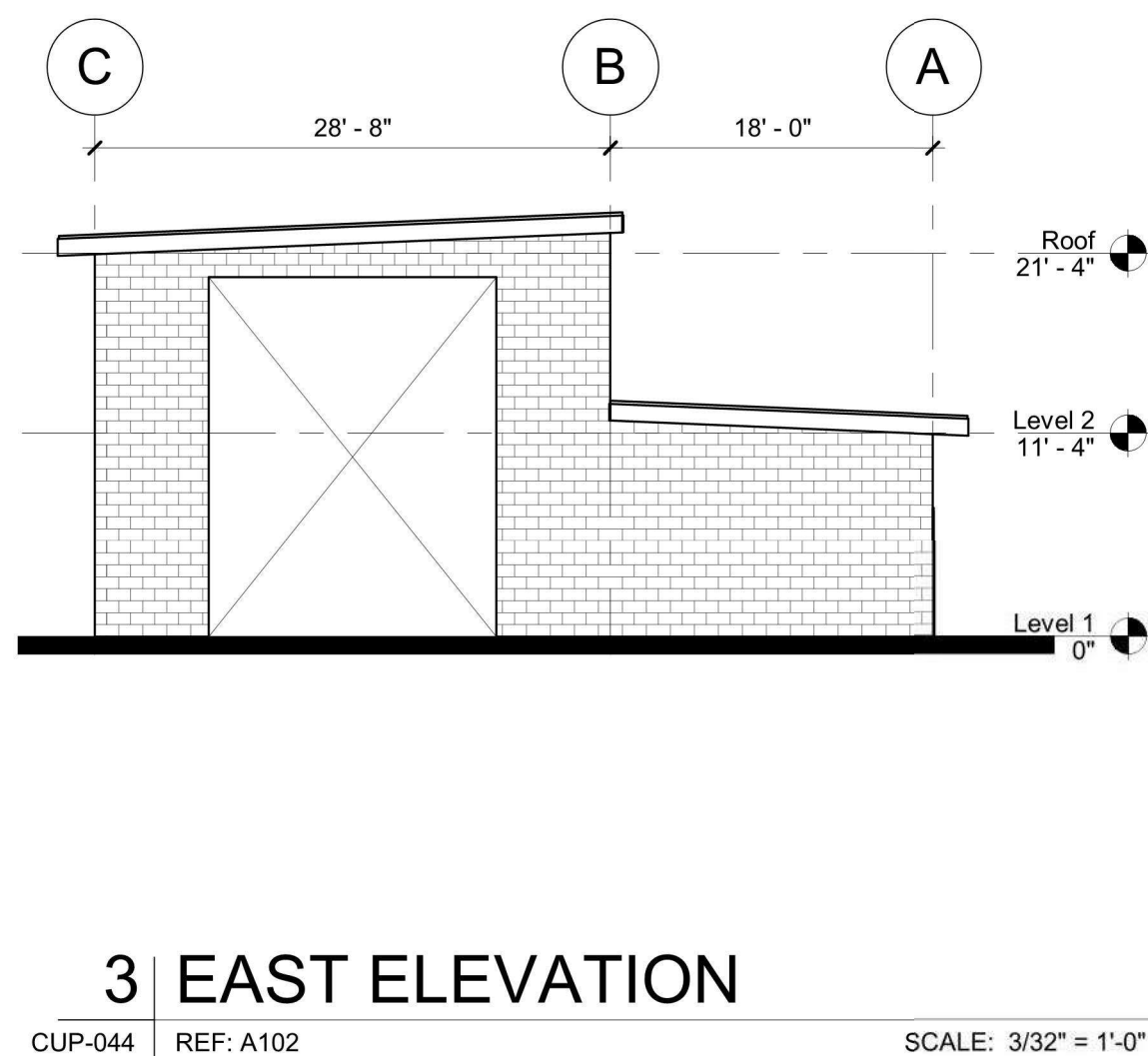
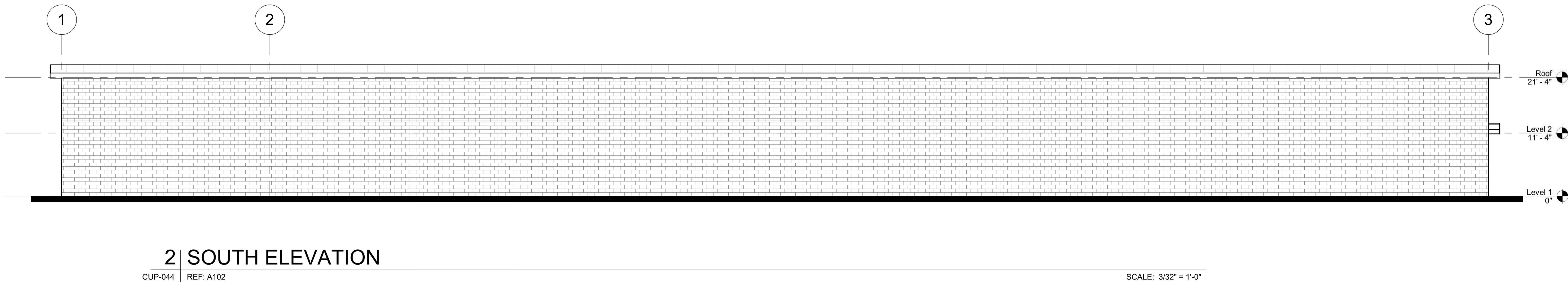


CASE NO.		00846471-PCPU	
CONTRACT NO.		C91143	
DRAWING NO.			
CUP-043			
REVISION	SHEET NO.		
3	44		
SCALE			
As indicated			

Local File: BIM 360/067272 - Metrolink Orange County Maintenance Facility/067272_TWB_A_Central_AECOM_R20_BIM360.rvt
Project Number: Project Number 10/6/2021 11:37:27 AM



ELEVATION KEYNOTES	
MARK	DESCRIPTION
1	STANDING SEAM METAL ROOF
2	ROLLUP DOOR, TYP.
3	HOLLOW METAL DOOR, TYP.
4	CMU WALL OR CONCRETE PANEL, IN STANDARD GREY COLOR. COLOR SELECTION TO BE FINALIZED IN FUTURE DISCUSSIONS



REV	DATE	DESCRIPTION	BY	APP
3	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3		
2	01/05/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2		
1	10/13/2021	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1		
0	06/30/2021	CONDITIONAL USE PERMIT SUBMITTAL		

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DRAWN BY	AL
CHECKED BY	JT
APPROVED BY	BF
DATE:	04/11/2022

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METROLINK



Gannett Fleming

SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT

ARCHITECTURE
TRAIN WASH BUILDING ELEVATIONS

CASE NO.	00846471-PCPU
CONTRACT NO.	
DRAWING NO.	CUP-044
REVISION	SHEET NO.
3	45
SCALE	3/32" = 1'-0"

Local File:BM 360\067272 - Metrolink Orange County Maintenance Facility\067272_Ph_A_central_R20_BIM360.rvt
Central File: BM360\1_A_central_R20.rvt

Project Number: #####
10/11/2021 3:00:48 PM

BUILDING INFORMATION

BUILDING NAME AND DESCRIPTION:

PUMP HOUSE BUILDING - ONE STORY BUILDING MADE OF CMU WITH FUEL SUPPLY INFLOW FROM ABOVE GROUND TANKS AND FUEL SUPPLY OUTFLOW TO FUEL CRANES.

BUILDING SIZE:

FIRST FLOOR - 750 S.F.

CONSTRUCTION TYPE:

TYPE 2-B

FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS (PER CBC TABLE 601):

- STRUCTURAL FRAME - 0 HOURS
- BEARING WALLS (EXTERIOR AND INTERIOR) - 0 HOURS
- FLOOR CONSTRUCTION - 0 HOURS
- ROOF CONSTRUCTION - 0 HOURS
- ROOF ASSEMBLY - 0 HOURS

FIRE PROTECTION:

- NON-SPRINKLERED BUILDING

OCCUPANCY GROUPS (PER CBC SECTION 302):

- UTILITY GROUP U (CBC SECTION 312)
- ACCESSORY SPACE TO UTILITY GROUP U

AS PER CBC SECTION 307.1.1 - AN OCCUPANCY THAT STORES, USES, OR HANDLES HAZARDOUS MATERIALS AS DESCRIBED SHALL NOT BE CLASSIFIED AS GROUP H, BUT SHALL BE CLASSIFIED AS THE OCCUPANCY THAT IT MOST NEARLY RESEMBLES:

- CLOSED PIPING SYSTEM CONTAINING FLAMMABLE OR COMBUSTIBLE LIQUIDS OR GASES UTILIZED FOR THE OPERATION OF MACHINERY OR EQUIPMENT.

ALLOWABLE BUILDING HEIGHT AND BUILDING AREA:

- TYPE 2B CONSTRUCTION, OCCUPANCY GROUP U
- 55'-0" ALLOWABLE BUILDING HEIGHT (PER CBC TABLE 504.3)
- 8,500 SF ALLOWABLE AREA (PER CBC TABLE 506.2)

SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY (PER CBC TABLE 1006.2.1):

MAXIMUM COMMON PATH OF TRAVEL DISTANCE:

- UTILITY GROUP U - 75 FEET

MAXIMUM EXIT ACCESS TRAVEL DISTANCE (PER CBC TABLE 1017.2):

- UTILITY GROUP U - 400 FEET

EXIT SEPARATION DISTANCE (PER CBC SECTION 1007.1.1):

- PUMP HOUSE AREA

- MAX. DIAGONAL DIMENSION OF SPACE = 33'-4"
- MIN. REQUIRED EXIT SEPARATION DISTANCE (NON-SPRINKLERED BUILDING) - 1/2' x 33'-4" = 16'-8"

MAXIMUM OCCUPANT LOAD FACTORS (PER CBC TABLE 1004.5):

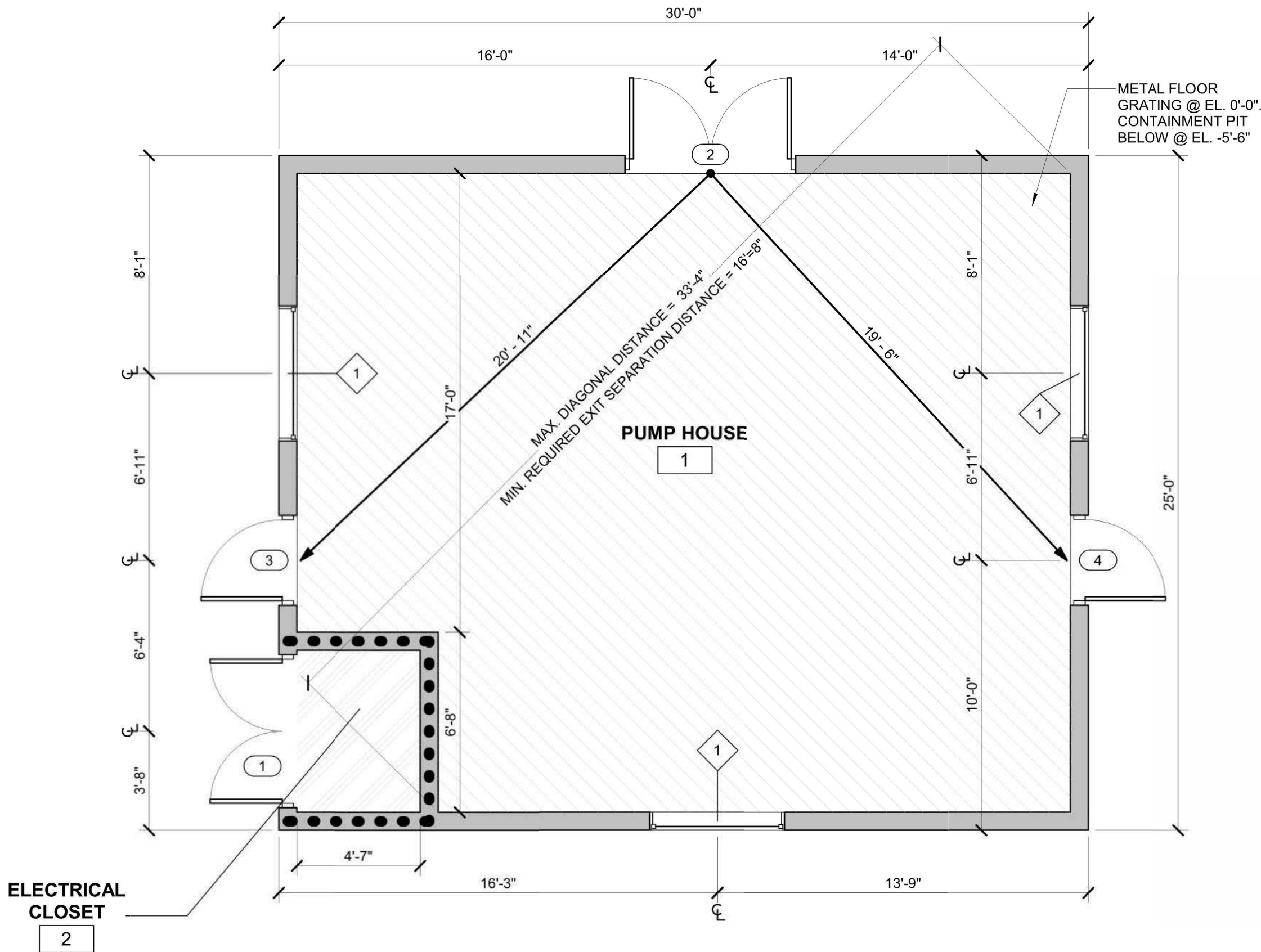
- MECHANICAL EQUIPMENT ROOMS - 300 SF (GROSS)
- ACCESSORY AREAS LESS THAN 10% OF TOTAL BUILDING AREA (AS PER CBC SECTION 508.2.3) - 300 SF (GROSS)
 - 10% OF TOTAL BUILDING AREA = 75 SF
 - ELEC. ROOM = 43 SF < 74 SF

OCCUPANT LOAD CALCULATIONS (PER CBC TABLE 1004.5):

- MECHANICAL EQUIPMENT ROOM 1 - 750 SF / 100 SF = 7.5 OR (8) OCCUPANTS
- ACCESSORY ELEC. ROOM - 43 SF / 300 SF = .14 OR (1) OCCUPANT
- TOTAL = 9 OCCUPANTS (MEN TO WOMEN RATIO = 50/50)
- BUILDING WILL BE UNOCCUPIED

MINIMUM REQUIRED PLUMBING FIXTURES (PER CPC TABLE 403.1 AND CBC SECTION 2902.3):

- NO MINIMUM REQUIRED PLUMBING FIXTURES FOR UTILITY GROUP U OCCUPANCY.



1 PUMP HOUSE
SCALE: 1/4" = 1'-0"

FLOOR PLAN NOTES

- MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE.
- DIMENSIONS AT CMU WALLS ARE TO THE FACE OF CMU UNLESS NOTED OTHERWISE.
- DIMENSIONS AT INTERIOR STUD WALLS ARE TO THE CENTERLINE OF STUD UNLESS NOTED OTHERWISE.
- DIMENSIONS FOLLOWED BY AN ASTERISK (*) ARE TO THE FACE OF STUD ON ONE OR BOTH SIDES.
- PROVIDE LINTELS FOR OPENINGS IN MASONRY WALLS INCLUDING BUT NOT LIMITED TO OPENINGS FOR DOORS, WINDOWS, LOUVERS, AND MECHANICAL AND ELECTRICAL PENETRATIONS.
- ARCHITECTURAL DRAWINGS SHOW FLOOR DRAINS, TRENCH DRAINS, AND FLOOR HATCHES IN FINISHED FLOOR AREAS ONLY. REFER TO STRUCTURAL AND PLUMBING DRAWINGS FOR FLOOR DRAINS, TRENCH DRAINS, AND FLOOR HATCHES IN NON-FINISHED FLOOR AREAS.

FLOOR PLAN NOTES

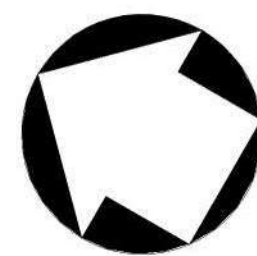
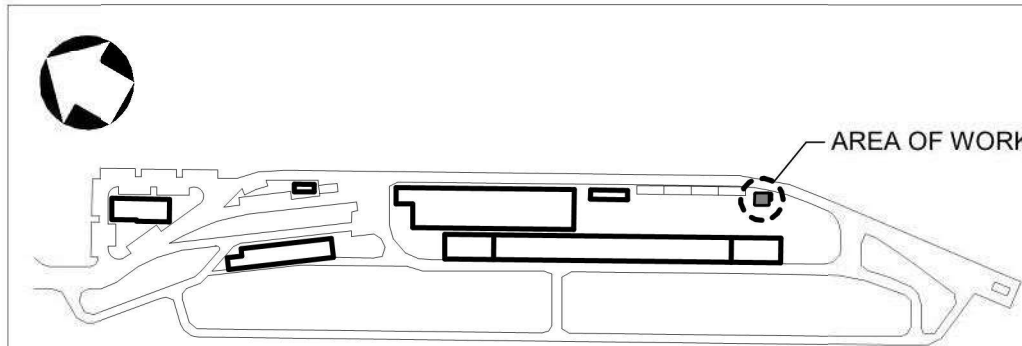
- THE INSIDE EDGE OF DOOR FRAMES SHALL BE SET 6" CLEAR FROM THE FINISH FACE OF THE ADJACENT PERPENDICULAR PARTITION UNLESS OTHERWISE DIMENSIONED.
- PROVIDE SUFFICIENT BLOCKING INSIDE THE WALLS FOR INSTALLATION OF CASEWORK, TOILET ACCESSORIES, PROJECTOR BRACKETS, PROJECTION SCREENS, MARKER BOARDS, TACK BOARDS, CHALK BOARDS, TELEVISION BRACKETS, AND ALL OTHER WALL MOUNTED EQUIPMENT.
- TACK BOARDS, MARKER BOARDS, AND TELEVISION BRACKETS SHOWN ON PLAN ARE FOR THE PURPOSES OF DETERMINING TENTATIVE LOCATIONS AND QUANTITY. FINAL LOCATIONS TO BE CONFIRMED IN THE FIELD BY THE OWNER.
- SEE CIVIL DRAWINGS FOR CONCRETE PADS AND BOLLARD LOCATIONS AT EXTERIOR DOORS.
- SEE INDUSTRIAL DRAWINGS FOR EQUIPMENT

DRAWING LEGEND

- UTILITY
- HAZARDOUS STORAGE AREA

- 1 HR RATED FIRE WALL

- PATH OF EGRESS



REV	DATE	DESCRIPTION	BY	APP
3	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3		
2	01/05/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2		
1	10/13/2021	CONDITIONAL USE PERMIT SUBMITTAL REVISION 1		
0	06/30/2021	CONDITIONAL USE PERMIT SUBMITTAL		

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DESIGNED BY JML
DRAWN BY JML
CHECKED BY RW
APPROVED BY RW
DATE: 04/11/2022

FOR
REVIEW
ONLY
NOT FOR
CONSTRUCTION



METROLINK



Gannett Fleming

SUBMITTED: _____
PROJECT MANAGER

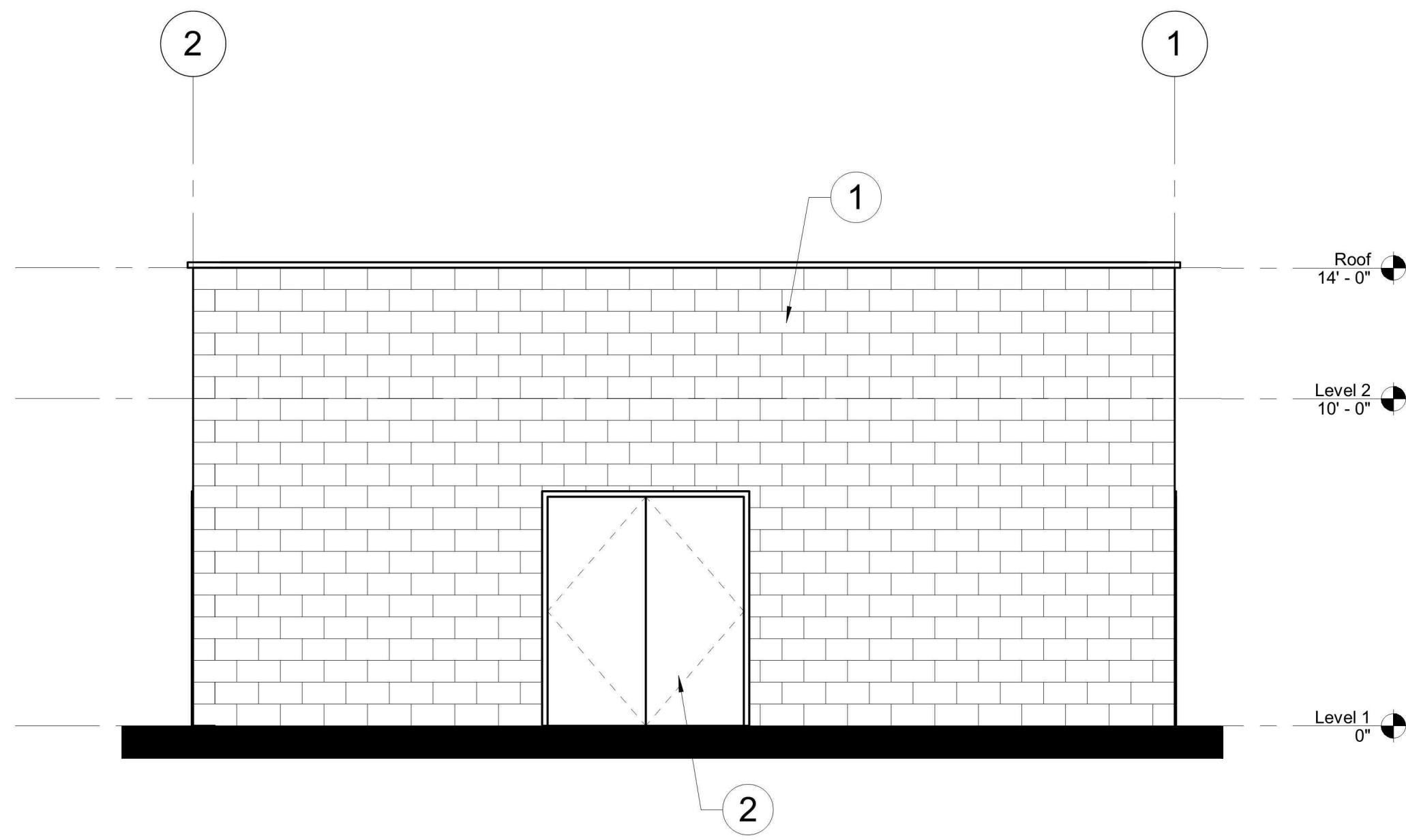
APPROVED: _____

**METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT**

**ARCHITECTURE
PUMP HOUSE - OVERALL FLOOR PLAN**

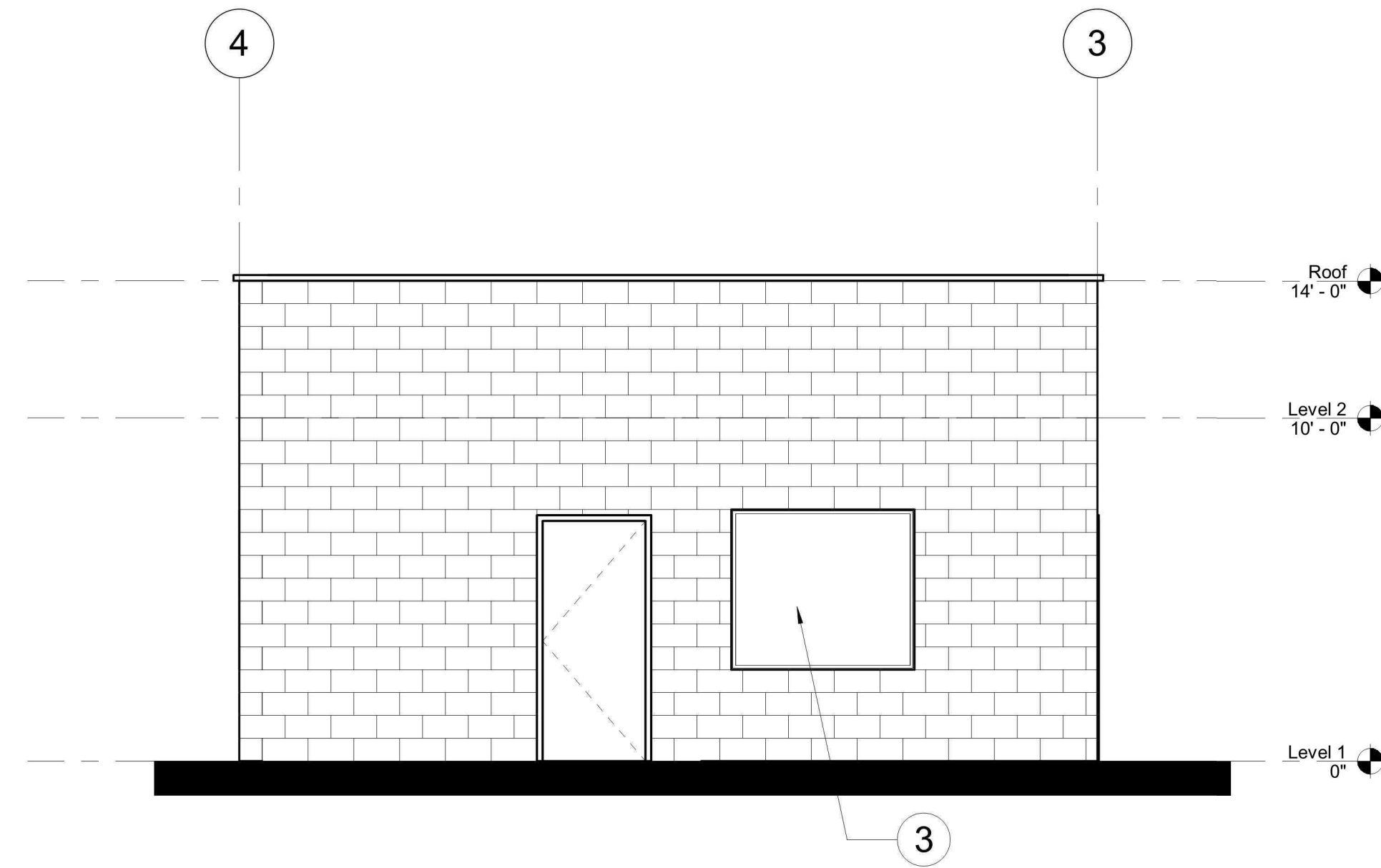
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CONTRACT NO.	C91143
DRAWING NO.	CUP-045
REVISION 3	SHEET NO. 46
SCALE	As indicated

Local File:BM\360\067272 - Metrolink Orange County Maintenance Facility\067272_PH_A_Central_AECOM_R20_BIM360.rvt
Project Number: Project Number
10/6/2021 11:38:34 AM



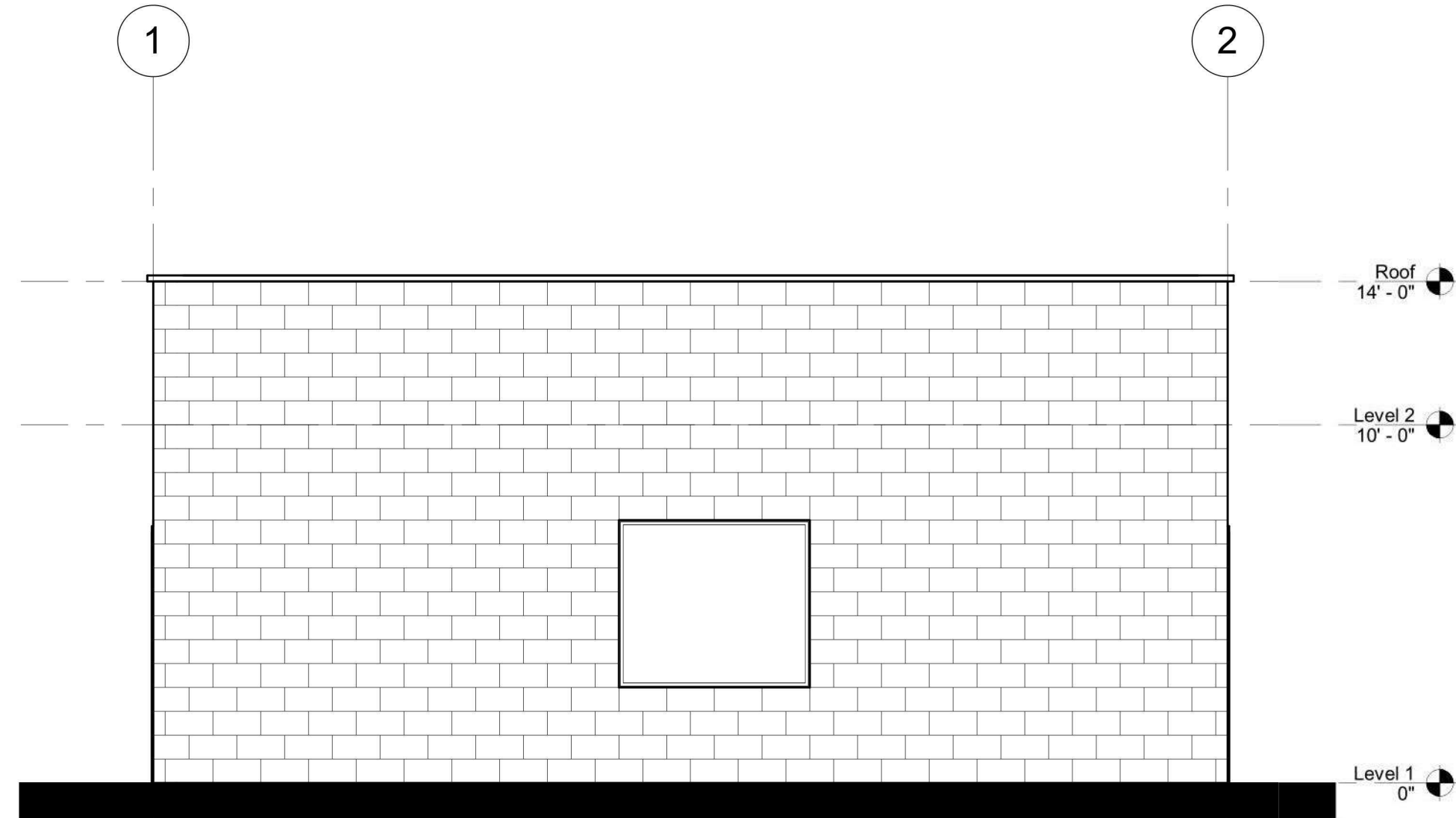
1 NORTH ELEVATION

CUP-046 REF: A201 SCALE: 1/4" = 1'-0"



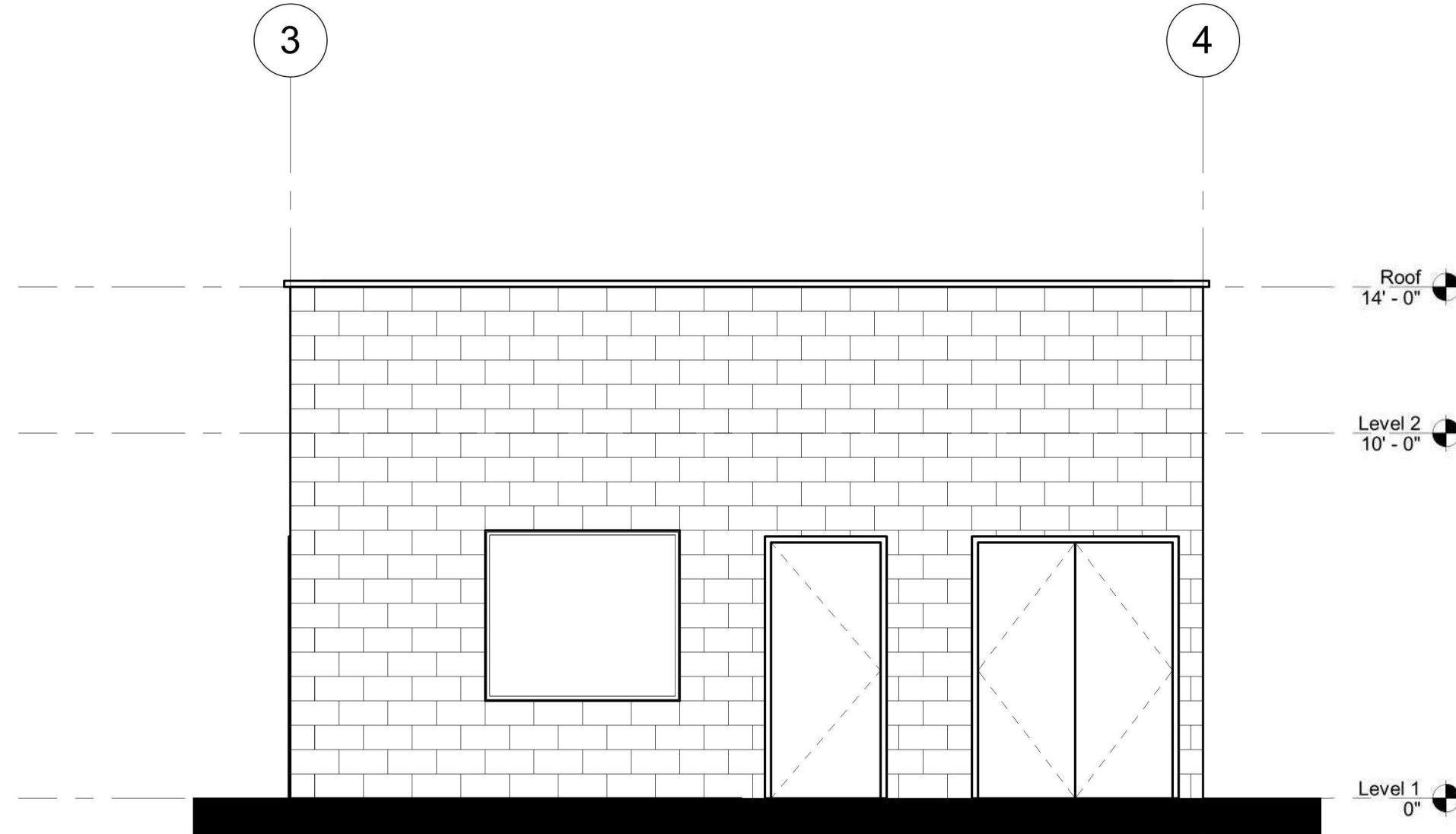
2 EAST ELEVATION

CUP-046 REF: A201 SCALE: 1/4" = 1'-0"



3 SOUTH ELEVATION

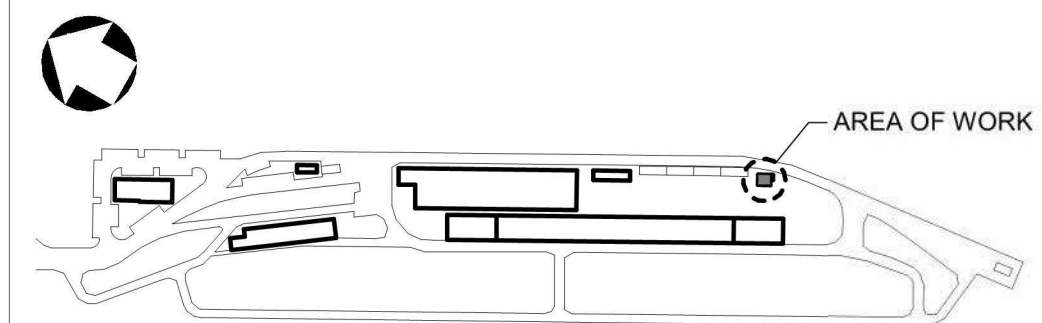
CUP-046 REF: A201 SCALE: 1/4" = 1'-0"



4 WEST ELEVATION

CUP-046 REF: A201 SCALE: 1/4" = 1'-0"

ELEVATION KEYNOTES	
MARK	DESCRIPTION
1	CMU OR CONCRETE PANEL WALL, IN STANDARD GREY COLOR. COLOR SELECTION TO BE FINALIZED IN FUTURE DISCUSSIONS
2	HOLLOW METAL DOOR, TYP.
3	ALUMINUM WINDOW, TYP.



REV	DATE	DESCRIPTION	BY	APP
3	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3		
2	01/05/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2		
1	10/13/2021	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1		
0	06/30/2021	CONDITIONAL USE PERMIT SUBMITTAL		

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DESIGNED BY	LC
DRAWN BY	AL
CHECKED BY	JT
APPROVED BY	BF
DATE:	04/11/2022

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CONSTRUCTION



METROLINK®



Gannett Fleming

SUBMITTED: _____
PROJECT MANAGER

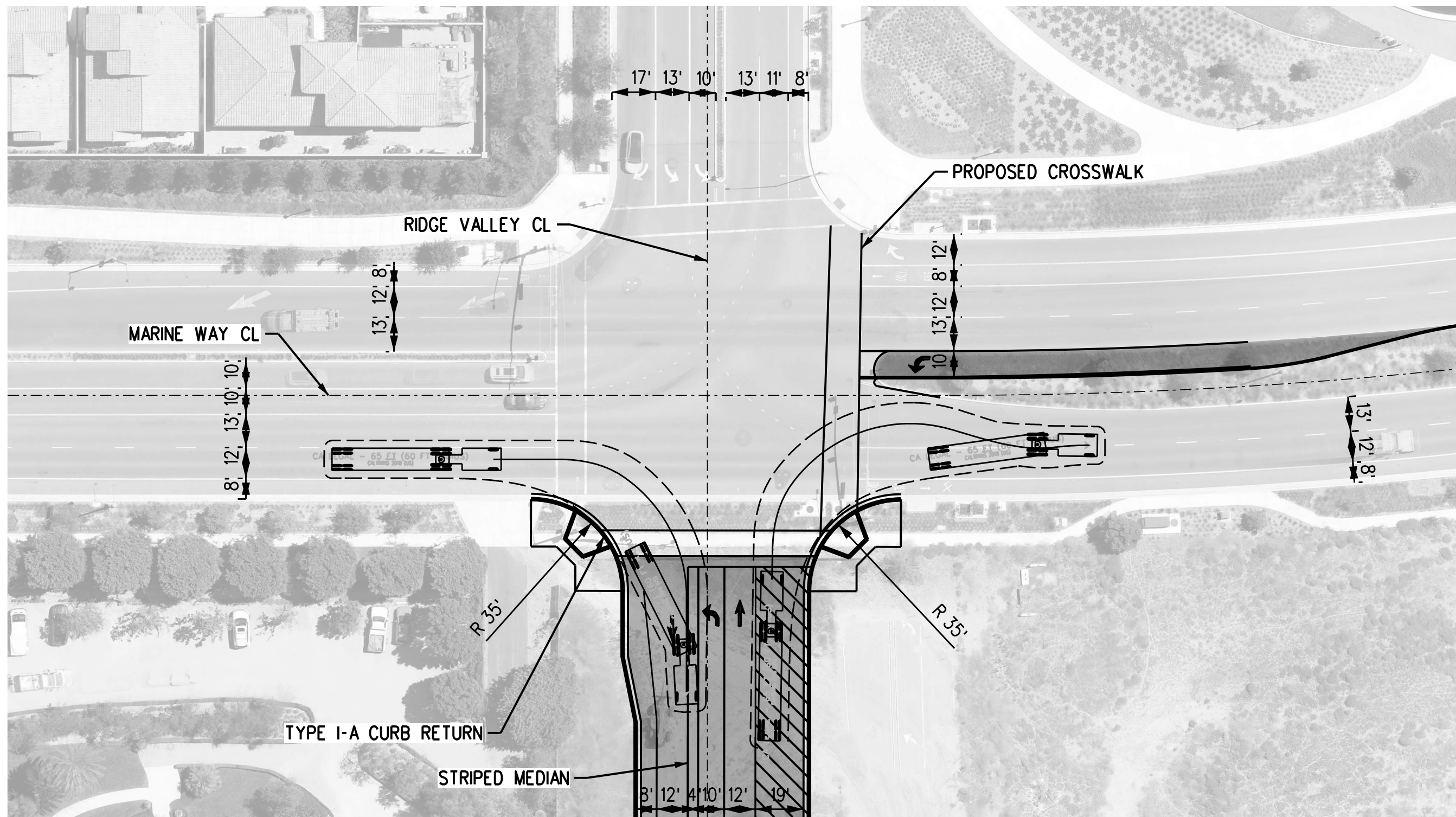
APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT

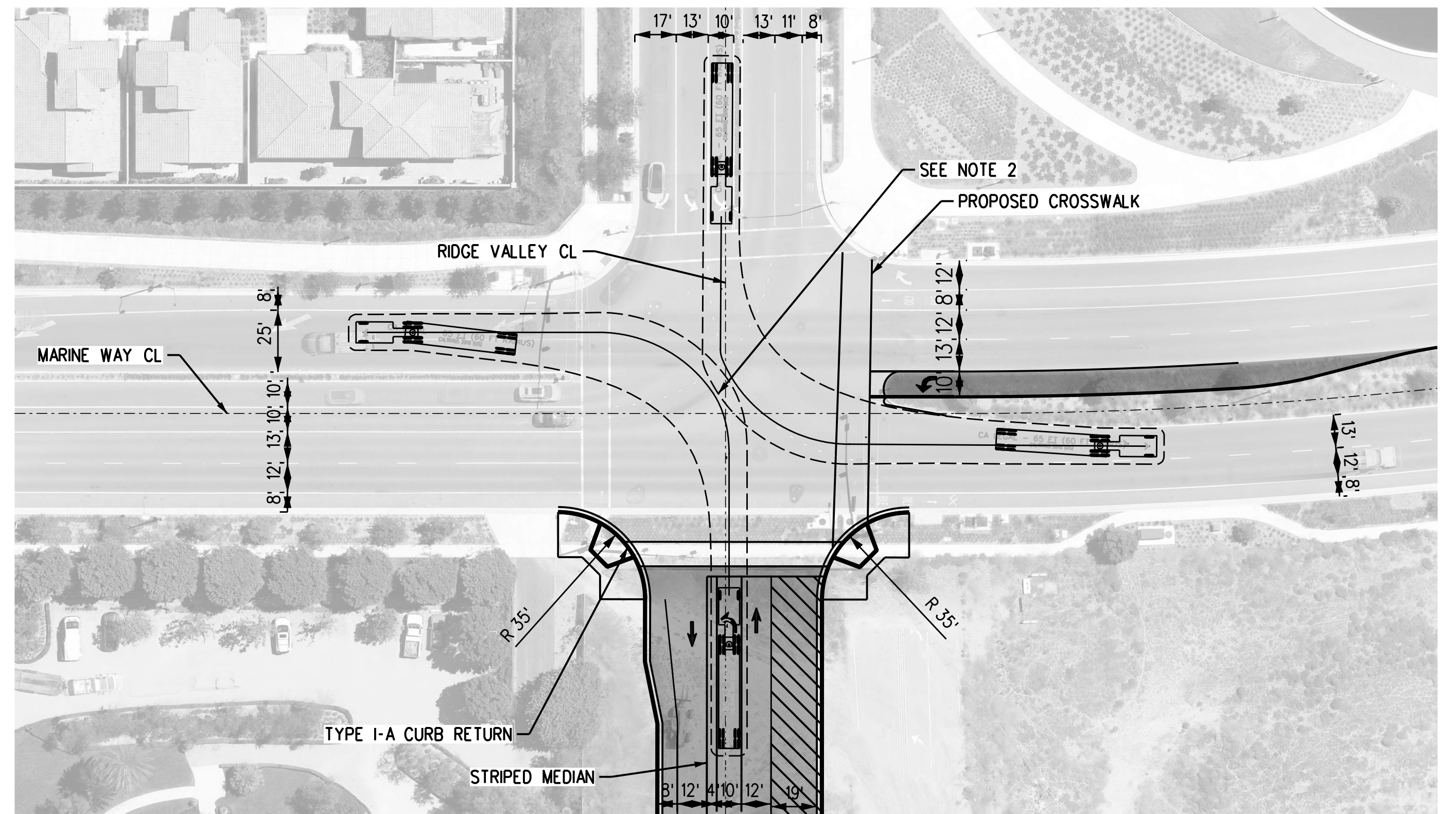
ARCHITECTURE
PUMP HOUSE BUILDING ELEVATIONS

CASE NO.	00846471-PCPU
CONTRACT NO.	
DRAWING NO.	CUP-046
REVISION	SHEET NO.
3	47
SCALE	1/4" = 1'-0"

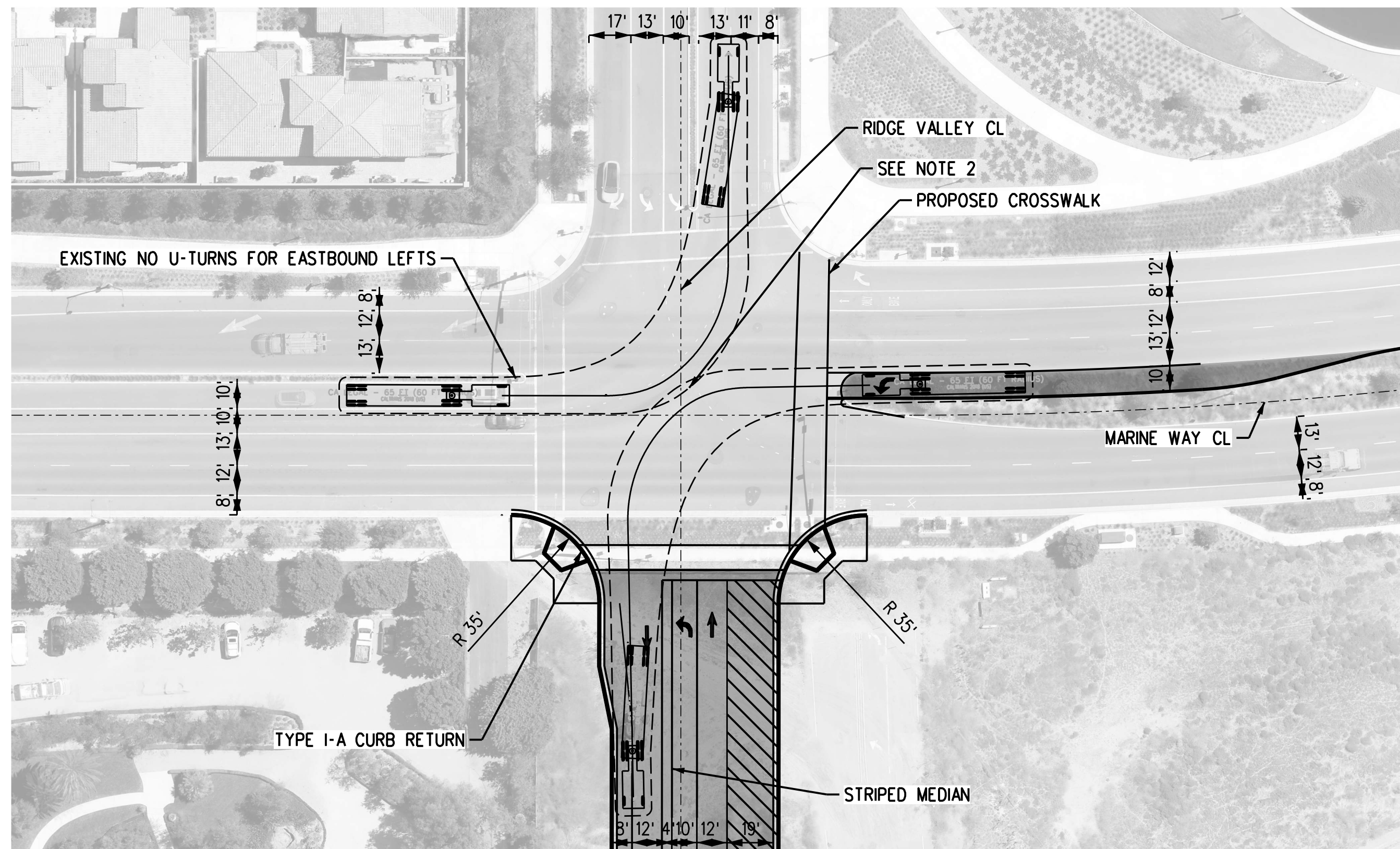
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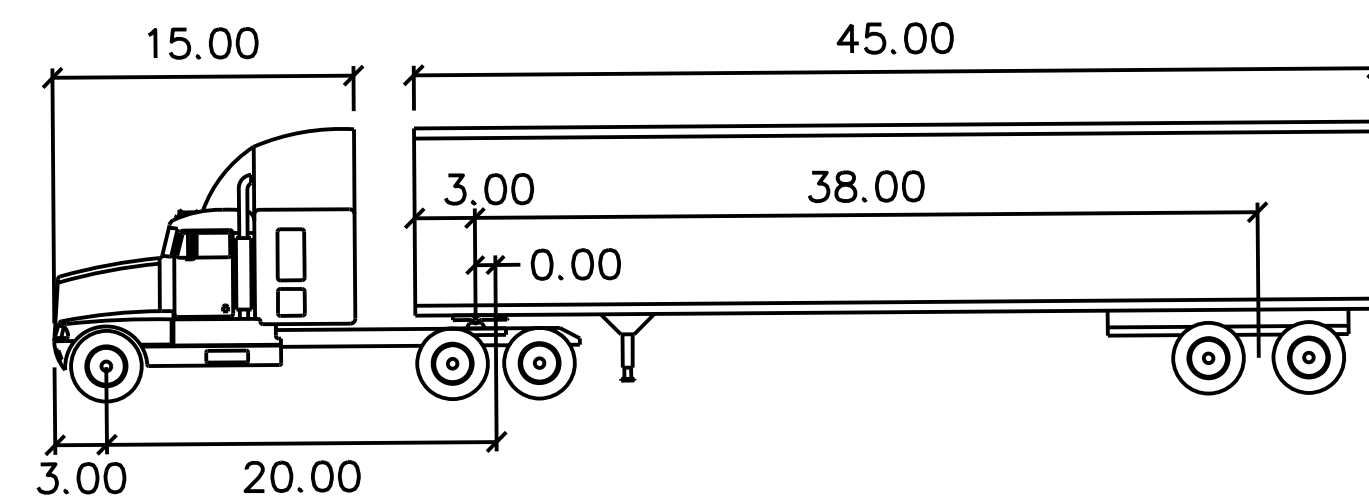
MARINE WAY AND RIDGE VALLEY INTERSECTION
EASTBOUND AND SOUTHBOUND RIGHT TURNS



MARINE WAY AND RIDGE VALLEY INTERSECTION
EASTBOUND AND WESTBOUND LEFT TURNS



MARINE WAY AND RIDGE VALLEY INTERSECTION
NORTHBOUND AND SOUTHBOUND LEFT TURNS



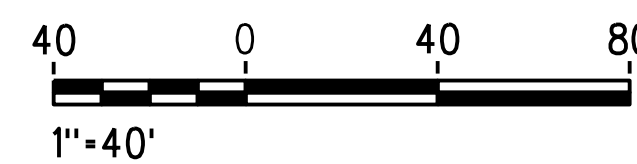
CA LEGAL - 65 FT (60 FT RADIUS)

	FEET	
TRACTOR WIDTH	: 8.50	LOCK TO LOCK TIME : 6.0
TRAILER WIDTH	: 8.50	STEERING ANGLE : 20.9
TRACTOR TRACK	: 8.50	ARTICULATING ANGLE : 70.0
TRAILER TRACK	: 8.50	

——— TRUCK PATH CENTERLINE
- - - - - 3' CLEARANCE

NOTES:

- SEE CUP-016 FOR LINE OF SIGHT DETAIL.
- NORTHBOUND AND SOUTHBOUND LEFTS AS WELL AS EASTBOUND AND WESTBOUND LEFTS WILL BE PROGRAMMED TO OPERATE IN A LEAD-LAG SEQUENCE. A RIGHT-TURN OVERLAP FOR SOUTHBOUND WILL OPERATE CONCURRENTLY WITH EASTBOUND LEFTS.



REV.	DATE	DESCRIPTION	BY	SUB.	APP.
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3			
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1			
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL			

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DESIGNED BY: D. SMITH
DRAWN BY: P. NGUYEN
CHECKED BY: J. NEFF
APPROVED BY: M. FREEMAN
DATE: 04/11/2022

NOT
FOR
CONSTRUCTION



METROLINK



Gannett Fleming

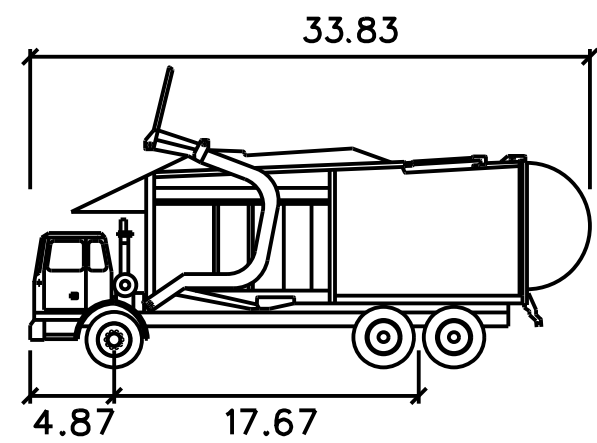
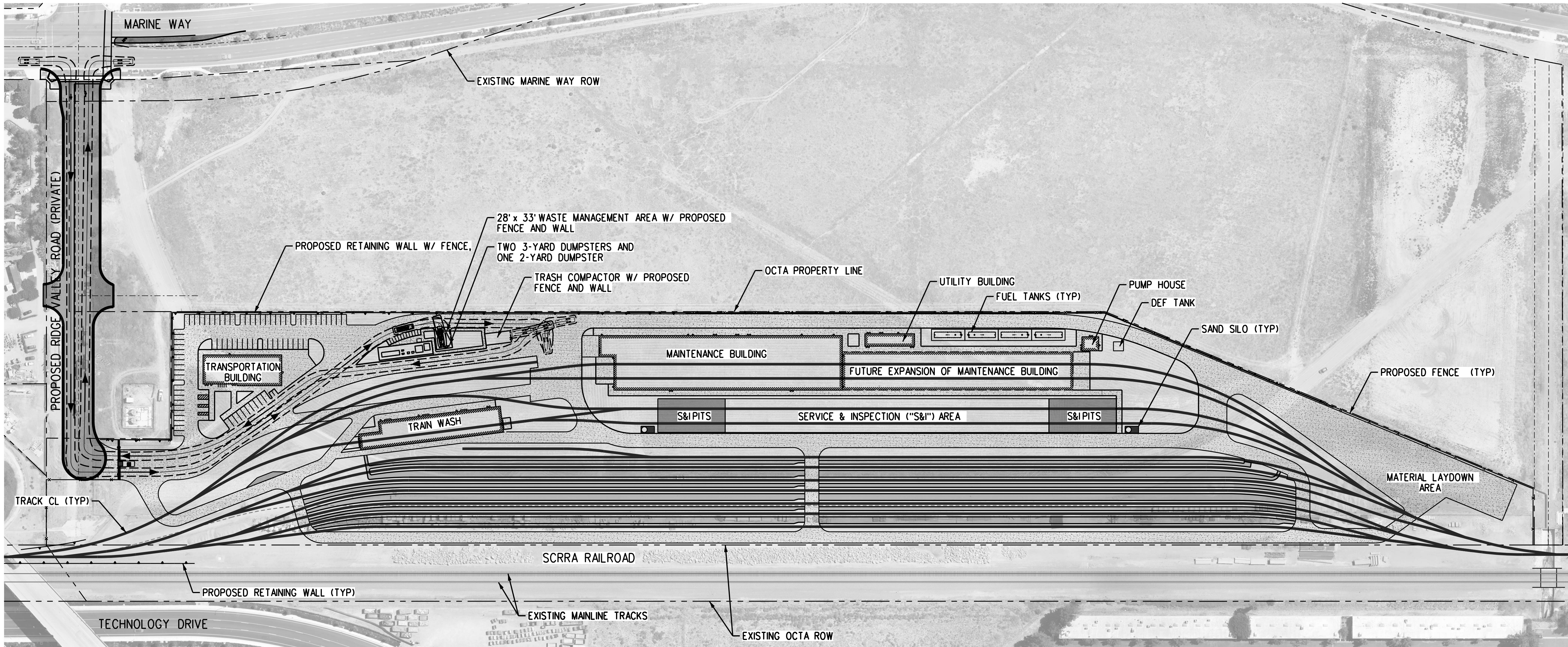
SUBMITTED: PROJECT MANAGER

APPROVED:

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
GENERAL AUTOTURN LAYOUT PLANS
MARINE WAY AND RIDGE VALLEY

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-047
REVISION	SHEET NO.
3	48
SCALE	AS SHOWN

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WAYNE TITAN

	FEET
WIDTH	: 8.46
TRACK	: 8.00
LOCK TO LOCK TIME	: 6.0
STEERING ANGLE	: 45.0

← DIRECTION OF TRAVEL
— TRUCK PATH CENTERLINE
--- 3' CLEARANCE



NOTES:

1. IN COMPLIANCE WITH CITY'S CONSTRUCTION & DEMOLITION (C&D): ALL CONSTRUCTION DEMOLITION PROJECTS REQUIRE WASTE MANAGEMENT PLAN (WMP).
2. A JANITORIAL SERVICE WILL COLLECT THE WASTE, RECYCLING, AND ORGANIC FOOD WASTE MATERIALS FROM ALL SITES BUILDING AND BRING TO THE RESPECTIVE DUMPSTERS AND TRASH COMPACTOR AT THE WASTE COLLECTION AREA. THE RESPECTIVE WASTE, RECYCLING, AND ORGANIC FOOD WASTE COLLECTION VEHICLES WILL RETRIEVE THE WASTE THE SECURE WASTE COLLECTION AREA TO BRING OFFSITE.
3. REFER TO CUP-011 FOR ADDITIONAL DETAILS ON WASTE MANAGEMENT AREA.
4. ALL PAVED SURFACES, INCLUDING ANY ENHANCED PAVEMENT AREAS THAT MAY BE PLANNED, MUST BE DESIGNED TO ACCOMMODATE THE WEIGHT, TURNING RADIUS, AND OTHER OPERATIONAL CONSIDERATIONS RELATED TO HEAVY TRASH TRUCKS. PAVEMENT AREA WHERE TRASH TRUCKS STOP TO LOAD BINS SHALL BE DESIGNED TO WITHSTAND THE INCREASED LOADING FROM THE TRUCK WHEELS AND MEET THE APPROVAL OF THE CITY ENGINEER. SEE BIN ENCLOSURE LOADING PAD CONSTRUCTION SPECS AND IRVINE ZONING CODE SEC. 3-23-4 FOR ADDITIONAL INFORMATION.
5. PER CITY'S ZONING CODE, SEC. 3-23-5, OWNERS OF PROPERTIES ARE RESPONSIBLE FOR ENSURING THE SUFFICIENT BIN QUANTITIES AND FREQUENCY OF COLLECTION SERVICE IS PROVIDED TO AVOID WASTE OVERFLOWS FROM BINS. IF FREQUENT AND CONSTANT OVERFLOW PROBLEM ARISE, THE CITY MAY DIRECT AN INCREASE IN THE FREQUENCY OF WASTE COLLECTION AT THE PROPERTY AS NECESSARY TO ELIMINATE OVERFLOW PROBLEM. A WASTE HAULER MAY CHARGE ADDITIONAL FEES IF A WASTE TRUCK CANNOT CONVENIENTLY ACCESS A TRASH COLLECTION AREA AND MUST MANUALLY MOVE A BIN AN EXTRAORDINARY DISTANCE FROM AN ENCLOSURE TO EMPTY IT.

REV.	DATE	BY	SUB.	APP.	DESCRIPTION
3	4/11/22				CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3
2	01/10/22				CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2
1	10/13/21				CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1
0	6/30/21				CONDITIONAL USE PERMIT SUBMITTAL

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DESIGNED BY	D. SMITH
DRAWN BY	P. NGUYEN
CHECKED BY	J. NEFF
APPROVED BY	M. FREEMAN
DATE	04/11/2022

NOT
FOR
CONSTRUCTION



METROLINK®



Gannett Fleming

SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT GENERAL AUTOTURN LAYOUT PLANS GARBAGE TRUCK

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-048
REVISION	SHEET NO.
3	49
SCALE	AS SHOWN

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REV.	DATE	DESCRIPTION	BY	SUB.	APP.
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3			
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1			
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL			

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DESIGNED BY
D. SMITH
DRAWN BY
P. NGUYEN
CHECKED BY
J. NEFF
APPROVED BY
M. FREEMAN
DATE
04/11/2022

NOT
FOR
CONSTRUCTION

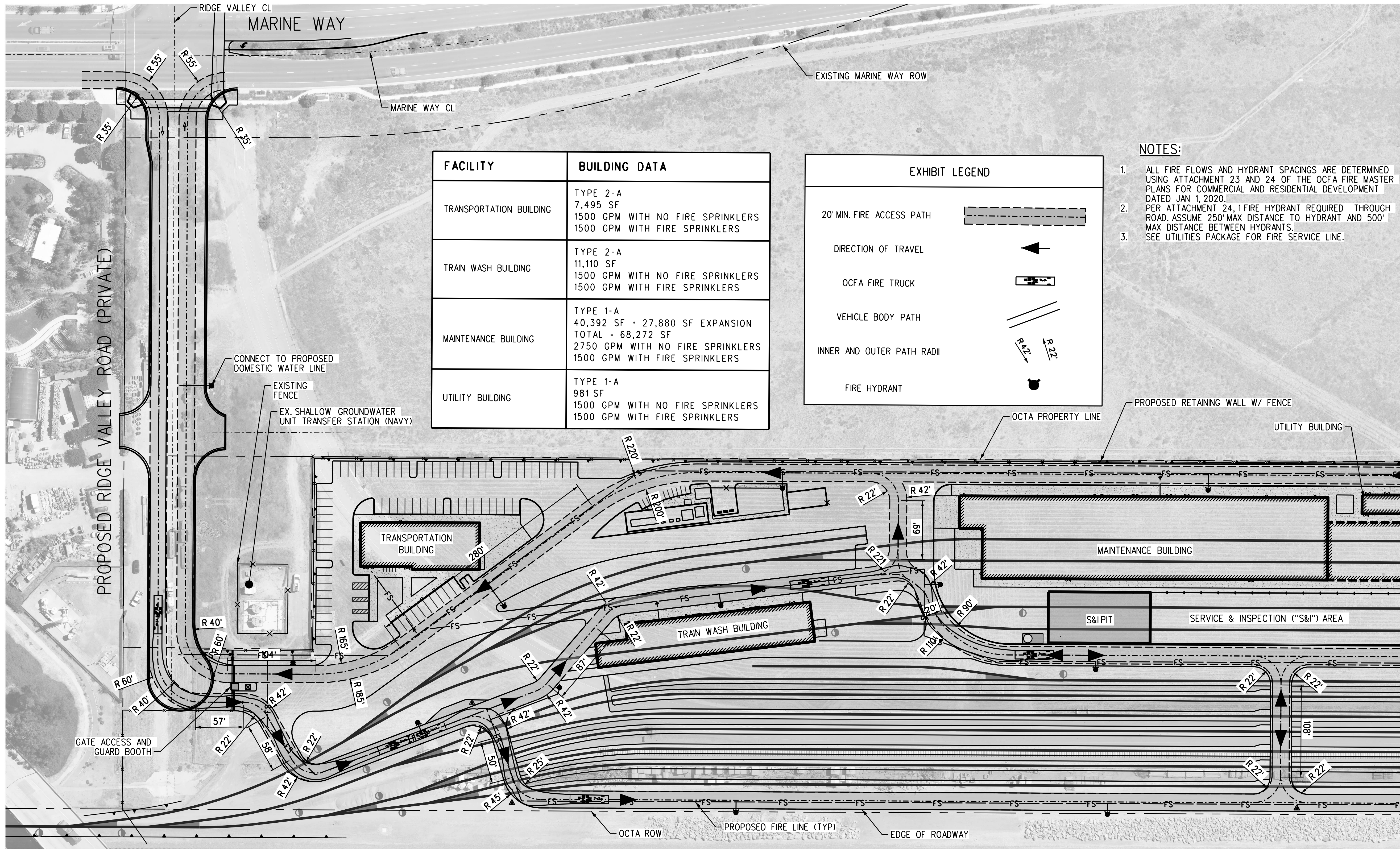
**METROLINK**

SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
FIRE ACCESS PLAN
SHEET 1 OF 2

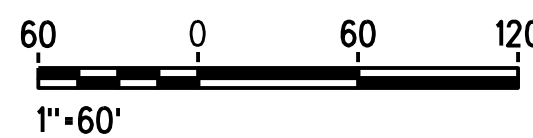
CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-049
REVISION	SHEET NO.
3	50
SCALE	AS SHOWN



FACILITY	BUILDING DATA
TRANSPORTATION BUILDING	TYPE 2-A 7,495 SF 1500 GPM WITH NO FIRE SPRINKLERS 1500 GPM WITH FIRE SPRINKLERS
TRAIN WASH BUILDING	TYPE 2-A 11,110 SF 1500 GPM WITH NO FIRE SPRINKLERS 1500 GPM WITH FIRE SPRINKLERS
MAINTENANCE BUILDING	TYPE 1-A 40,392 SF + 27,880 SF EXPANSION TOTAL = 68,272 SF 2750 GPM WITH NO FIRE SPRINKLERS 1500 GPM WITH FIRE SPRINKLERS
UTILITY BUILDING	TYPE 1-A 981 SF 1500 GPM WITH NO FIRE SPRINKLERS 1500 GPM WITH FIRE SPRINKLERS

EXHIBIT LEGEND	
20' MIN. FIRE ACCESS PATH	
DIRECTION OF TRAVEL	
OCFA FIRE TRUCK	
VEHICLE BODY PATH	
INNER AND OUTER PATH RADIUS	
FIRE HYDRANT	

- NOTES:
- ALL FIRE FLOWS AND HYDRANT SPACINGS ARE DETERMINED USING ATTACHMENT 23 AND 24 OF THE OCFA FIRE MASTER PLANS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENT DATED JAN 1, 2020.
 - PER ATTACHMENT 24, 1 FIRE HYDRANT REQUIRED THROUGH ROAD. ASSUME 250' MAX DISTANCE TO HYDRANT AND 500' MAX DISTANCE BETWEEN HYDRANTS.
 - SEE UTILITIES PACKAGE FOR FIRE SERVICE LINE.



4/8/2022 3:07:01 PM USER : p.nguyen
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REV.	DATE	DESCRIPTION	BY	SUB.	APP.
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3			
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1			
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL			

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DESIGNED BY	D. SMITH
DRAWN BY	P. NGUYEN
CHECKED BY	J. NEFF
APPROVED BY	M. FREEMAN
DATE	04/11/2022

NOT
FOR
CONSTRUCTION

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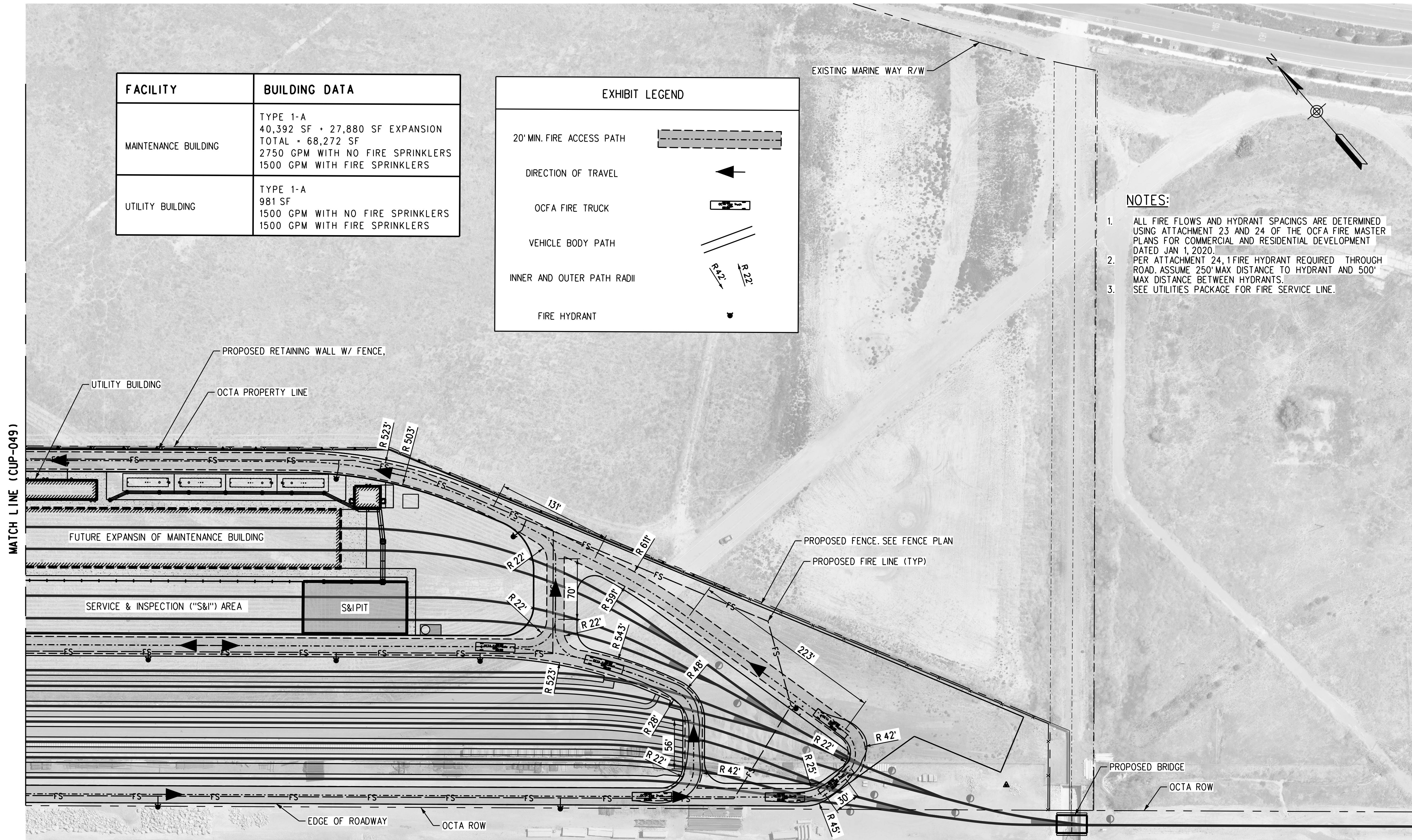
Gannett Fleming

SUBMITTED: _____
PROJECT MANAGER




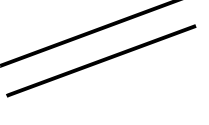
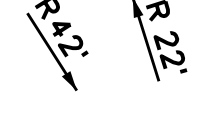

APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
FIRE ACCESS PLAN
SHEET 2 OF 2

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-050
REVISION	SHEET NO.
3	51
SCALE	AS SHOWN



FACILITY	BUILDING DATA
MAINTENANCE BUILDING	TYPE 1-A 40,392 SF + 27,880 SF EXPANSION TOTAL = 68,272 SF 2750 GPM WITH NO FIRE SPRINKLERS 1500 GPM WITH FIRE SPRINKLERS
UTILITY BUILDING	TYPE 1-A 981 SF 1500 GPM WITH NO FIRE SPRINKLERS 1500 GPM WITH FIRE SPRINKLERS

EXHIBIT LEGEND	
20' MIN. FIRE ACCESS PATH	
DIRECTION OF TRAVEL	
OCFA FIRE TRUCK	
VEHICLE BODY PATH	
INNER AND OUTER PATH RADII	
FIRE HYDRANT	

NOTES:

- ALL FIRE FLOWS AND HYDRANT SPACINGS ARE DETERMINED USING ATTACHMENT 23 AND 24 OF THE OCFA FIRE MASTER PLANS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENT DATED JAN 1, 2020.
- PER ATTACHMENT 24, 1 FIRE HYDRANT REQUIRED THROUGH ROAD. ASSUME 250' MAX DISTANCE TO HYDRANT AND 500' MAX DISTANCE BETWEEN HYDRANTS.
- SEE UTILITIES PACKAGE FOR FIRE SERVICE LINE.

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UTILITY LEGEND

---O---	OIL / PETROLEUM
---W---	WATER
---DW---	WATER (DOMESTIC)
---FS---	WATER (FIRE SERVICE)
---RW---	WATER (RECLAIMED WATER)
---G---	NATURAL GAS
---S---	SANITARY SEWER
---SD---	STORM DRAIN
---SD---	STORM DRAIN (36" OR LARGER)
---E---	ELECTRIC POWER DUCT (UNDERGROUND)
---FO---	COMMUNICATION (UNDERGROUND)
---T---	TELEPHONE DUCT (UNDERGROUND)
/ / / / /	ABANDON UTILITY
X X X X X	REMOVE UTILITY
⦿	FIRE HYDRANT
⊙	SEWER MANHOLE
•	SEWER / WATER VALVE
●●	PROPOSED UNDERGROUND OIL/WATER SEPARATOR

STORM DRAIN CISTERN, SEE DRAINAGE PLANS FOR DETAILS

ABANDONED UTILITY TO REMAIN 14" CONC. STEEL CYLINDER PIPE

PROPOSED 4" SEWER

PROPOSED 2.5" DOMESTIC WATER

PROPOSED 6" FIRE MAIN

PROPOSED 6" GAS LINE

EX. VAULT (NAVY)

EX. UNDERGROUND ELECTRIC

EX. UNDERGROUND ELECTRIC

PROPOSED 6" DOMESTIC WATER

EX. 6" HDPE GROUNDWATER CONVEYANCE PIPE (NAVY) & EX. 1 1/2" PVC ELECTRICAL CONDUIT (NAVY)

PROPOSED 4" SEWER

PROPOSED 2.5" DOMESTIC WATER

PROPOSED 6" FIRE MAIN

PROPOSED 6" GAS LINE

EX. VAULT (NAVY)

EX. UNDERGROUND ELECTRIC

EX. UNDERGROUND ELECTRIC

PROPOSED 6" DOMESTIC WATER

EX. 6" HDPE GROUNDWATER CONVEYANCE PIPE (NAVY) & EX. 1 1/2" PVC ELECTRICAL CONDUIT (NAVY)

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PROPOSED 2.5" DOMESTIC WATER

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EX. VAULT (NAVY)

EX. UNDERGROUND ELECTRIC

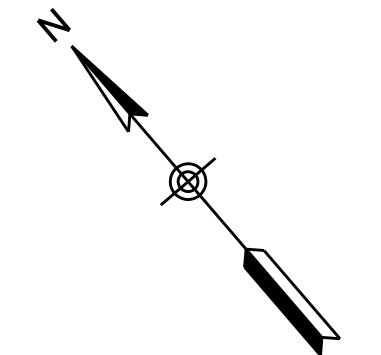
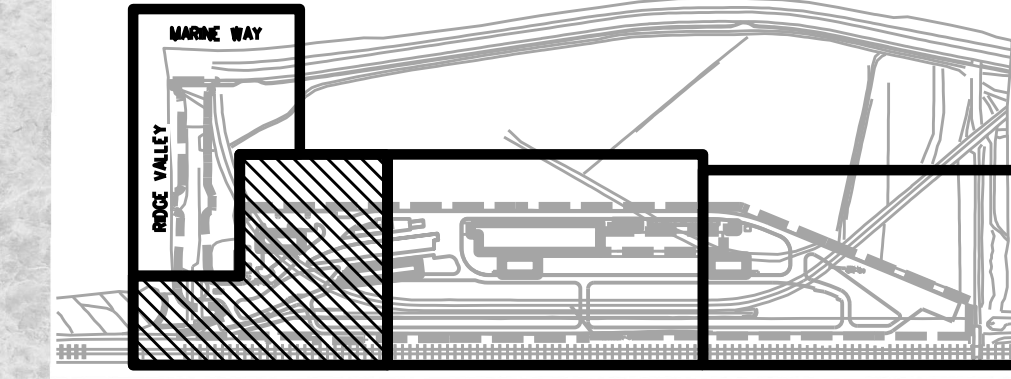
EX. UNDERGROUND ELECTRIC

PROPOSED 6" DOMESTIC WATER

EX. 6" HDPE GROUNDWATER CONVEYANCE PIPE (NAVY) & EX. 1 1/2" PVC ELECTRICAL CONDUIT (NAVY)

MATCH LINE (CUP-051)

KEY MAP



CONSTRUCTION NOTES:

1. PROTECT IN PLACE
2. REMOVE UTILITY
3. RECONSTRUCT MANHOLE TO FINISHED GRADE
4. ADJUST TO GRADE
5. GROUT FILL AND ABANDON IN PLACE
6. REMOVE PORTION OF VAULT IN CONFLICT WITH RETAINING WALL AND ELECTRIC LINES, THEN CONCRETE INFILL AND ABANDON IN PLACE
7. RELOCATION PERFORMED BY OTHERS
8. NOTE: 60% DESIGNER SHALL PROVIDE UTILITY PROTECTION FOR LONGITUDINAL PIPELINES WITHIN 25' OF TRACK CENTERLINES PER ES002. THE CARRIER PIPE SHALL BE ENCASED OR OF SPECIAL DESIGN AS APPROVED BY SCRRRA ASSISTANT DIRECTOR, DESIGN.

NOTES:

1. UTILITIES TO BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.
2. WATER LINE DIPS AT CONFLICTS WITH UTILITIES SHALL BE REQUIRED TO MAINTAIN 1' VERTICAL SEPARATION PER IRWD GUIDELINES.
3. NEW WATER, SEWER, AND FIRE PROTECTION LINES SHALL BE ENCASED BENEATH TRACKS PER METROLINK STANDARD 5001.

TIE IN PROPOSED LANDSCAPING IRRIGATION TO EXISTING 24" RECYCLED WATER MAIN (IRWD); SEE IRRIGATION PLANS

MATCH LINE (CUP-051)

MATCH LINE (CUP-053)

40 0 40 80
1"=40'

REV.	DATE	DESCRIPTION
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL

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DESIGNED BY
D. SMITH
DRAWN BY
D. SALAZAR
CHECKED BY
J. NEFF
APPROVED BY
M. FREEMAN
DATE
04/11/2022

NOT FOR CONSTRUCTION

**METROLINK**

Gannett Fleming

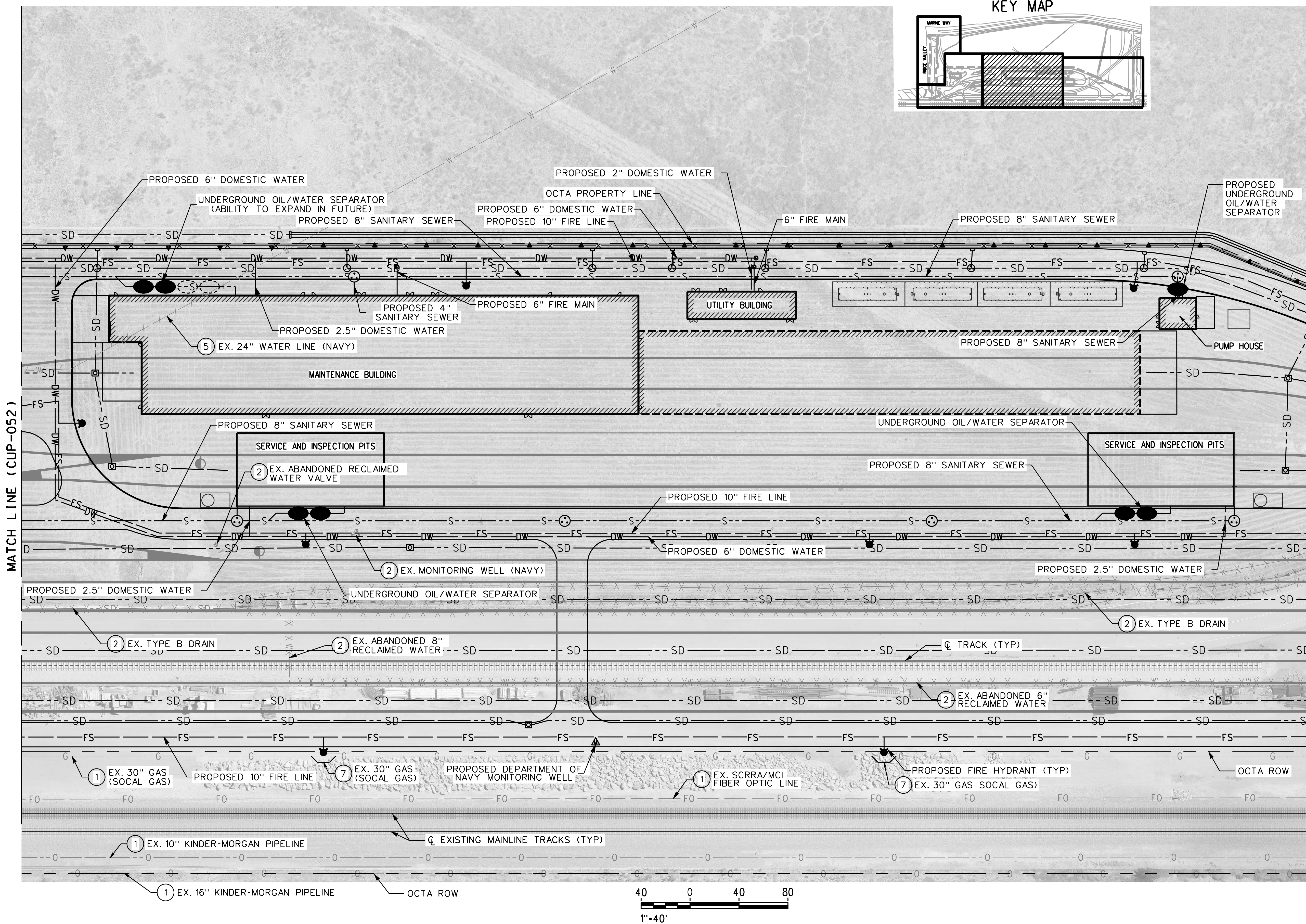
SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
COMPOSITE PLANS OF
UTILITY REARRANGEMENT
SHEET 2 OF 4

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-052
REVISION	3
SHEET NO.	53
SCALE	AS SHOWN

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CONSTRUCTION NOTES:

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UTILITY LEGEND

---	0	OIL / PETROLEUM
---	W	WATER
---	DW	WATER (DOMESTIC)
---	FS	WATER (FIRE SERVICE)
---	RW	WATER (RECLAIMED WATER)
---	G	NATURAL GAS
---	S	SANITARY SEWER
---	SD	STORM DRAIN
---	SD	STORM DRAIN (36" OR LARGER)
---	E	ELECTRIC POWER DUCT (UNDERGROUND)
---	FO	COMMUNICATION (UNDERGROUND)
---	T	TELEPHONE DUCT (UNDERGROUND)
/ / / /		ABANDON UTILITY
X X X X		REMOVE UTILITY
☼		FIRE HYDRANT
⊙		SEWER MANHOLE
●		SEWER / WATER VALVE
●●		PROPOSED UNDERGROUND OIL/WATER SEPARATOR

NOTES:

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REV.	DATE	DESCRIPTION
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3
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DESIGNED BY
D. SMITH
DRAWN BY
D. SALAZAR
CHECKED BY
J. NEFF
APPROVED BY
M. FREEMAN
DATE
04/11/2022

NOT FOR CONSTRUCTION



METROLINK®



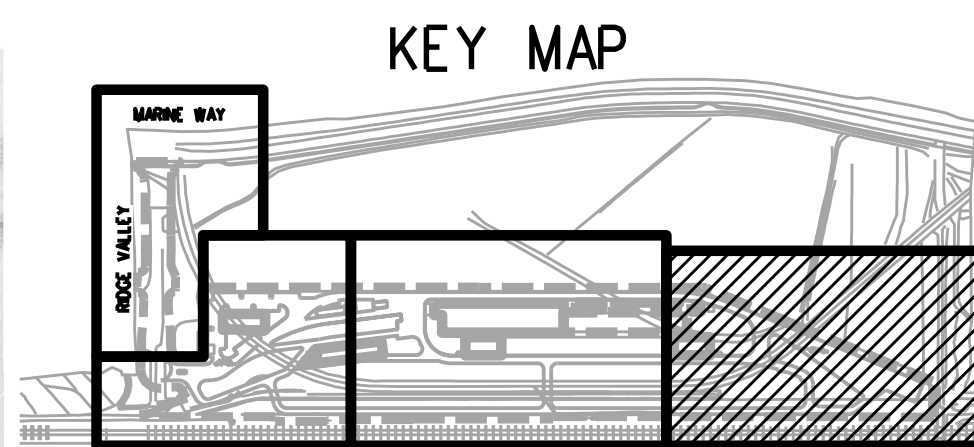
Gannett Fleming

SUBMITTED: PROJECT MANAGER

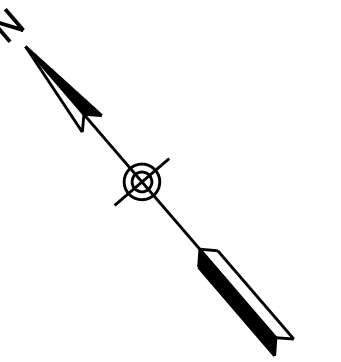
APPROVED:

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
COMPOSITE PLANS OF
UTILITY REARRANGEMENT
SHEET 3 OF 4

CASE NO.	00846471-PCPU
CONTRACT NO.	C91143
DRAWING NO.	CUP-053
REVISION	3
SHEET NO.	54
SCALE	AS SHOWN



- 1 PROTECT IN PLACE
- 2 REMOVE UTILITY
- 3 RECONSTRUCT MANHOLE TO FINISHED GRADE
- 4 ADJUST TO GRADE
- 5 GROUT FILL AND ABANDON IN PLACE
- 6 REMOVE PORTION OF VAULT IN CONFLICT WITH RETAINING WALL AND ELECTRIC LINE, THEN CONCRETE INFILL AND ABANDON IN PLACE
- 7 RELOCATION PERFORMED BY OTHERS
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- 9 RELOCATE UTILITY



--- 0 ---	OIL / PETROLEUM
— W —	WATER
— DW —	WATER (DOMESTIC)
— FS —	WATER (FIRE SERVICE)
— RW —	WATER (RECLAIMED WATER)
— G —	NATURAL GAS
— S —	SANITARY SEWER
— SD —	STORM DRAIN
— SD —	STORM DRAIN (36" OR LARGER)
— E —	ELECTRIC POWER DUCT (UNDERGROUND)
— FO —	COMMUNICATION (UNDERGROUND)
— T —	TELEPHONE DUCT (UNDERGROUND)
/ / / / /	ABANDON UTILITY
X X X X X	REMOVE UTILITY
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DESIGNED BY	D. SMITH
DRAWN BY	D. SALAZAR
CHECKED BY	J. NEFF
APPROVED BY	M. FREEMAN
DATE	01/11/2000

CONSTRUCTION


Gannett Fleming

APPROVED:

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
COMPOSITE PLANS OF
UTILITY REARRANGEMENT
SHEET 4 OF 4

CASE NO. 00846471-PCPU	
CONTRACT NO. C91143	
DRAWING NO. CUP-054	
REVISION 3	SHEET NO. 55
SCALE AS SHOWN	

MAINTENANCE BUILDING INDUSTRIAL EQUIPMENT SCHEDULES

FACILITIES SHOP																									
MARK	TYPE	STATUS	SUPPLIED BY	QTY	ELECTRICAL DATA					ELECTRICAL COMMENTS	PLUG REQ'D	COMPRESSED AIR	FLR	WATER (GPM)	VENT REQ'D	VENT CFM	GAS (MBH)	DRAIN REQ'D	DRAIN SIZE	PHONE LINE	SIZE (WxDxH)	WEIGHT	DESCRIPTION	EQUIP CLEARANCE	COMMENTS
					VOLTS	PHASE	HERTZ	AMP	HP																
FS-1	HEAVY DUTY WORKBENCH WITH VISE - 6' x30"x34"	N	CFCI	1	115 V	1	60 Hz	20 A	0	POWER STRIP	Yes		No	0	No	0 CFM	0	No	0"		72"x30"x34"		HEAVY DUTY LONG WORKBENCH WITH WILTON TRADESMAN VISE	3' FRONT	
FS-2	8 INCH GRINDER WITH DUST COLLECTOR	N	CFCI	1	115 V	1	60 Hz	0 A	1.5	INCLUDES DUST COLLECTOR 1/2 HP	Yes		No	0	No	0 CFM	0	No	0"		22"x11"	113	JET 8" GRINDER 577102, PEDESTAL AND DUST COLLECTOR	3' FRONT AND SIDES	
FS-3	20 INCH DRILL PRESS	N	CFCI	1	115 V	1	60 Hz	0 A	1.5		Yes		No	0	No	0 CFM	0	No	0"		33.5"x18.5"x67"	282	JET MODEL 354170	3' FRONT AND SIDES	
FS-4	BELT/DISC SANDER	N	CFCI	1	120 V	1	60 Hz	0 A	1.5		Yes		No	0	No	0 CFM	0	No	0"		32"x25"x55"	247	POWERMATIC MODEL #31A	3' FRONT AND SIDES	
FS-5	OXY-ACETYLENE WELDER (PORTABLE)	N	CFCI	1	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	No	0"		25"x20"x57"		AIRGAS VALVES AND CUTTING TORCH		
FS-6	STORAGE SHELVING - 36"x18"x84"	N	CFCI	5	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	No	0"		36"x18"x84"		LYON WORKSPACE PRODUCTS MODEL 8038SH & 8038H	3' FRONT	
FS-7	FLAMMABLE MATERIAL CABINET - 43"x18"x66"	N	CFCI	2	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	No	0"		43"x18"x65"		LYON WORKSPACE PRODUCTS MODEL 5445N	3' FRONT	
PARTS STORAGE																									
MARK	TYPE	STATUS	SUPPLIED BY	QTY	ELECTRICAL DATA					ELECTRICAL COMMENTS	PLUG REQ'D	COMPRESSED AIR	FLR	WATER (GPM)	VENT REQ'D	VENT CFM	GAS (MBH)	DRAIN REQ'D	DRAIN SIZE	PHONE LINE	SIZE (WxDxH)	WEIGHT	DESCRIPTION	EQUIP CLEARANCE	COMMENTS
					VOLTS	PHASE	HERTZ	AMP	HP																
PS-1	HIGH DENSITY RACKING SYSTEM WITH STACKER CRANE	N	CFCI	1	460 V	3	60 Hz	9 A	3.75	HW	No		No	0	No	0 CFM	0	No	0"		49"-7.5"x16"-2"x21"-8.7/8"		RAPISTAK #MSR2B-XXXX	12' FRONT	
PS-2	VERTICAL LIFT MODULE - ML50D	N	CFCI	2	460 V	3	60 Hz	0 A	4	HW	No		No	0	No	0 CFM	0	No	0"		154500 LBS. CAP.		MODULA		
PS-3	STORAGE SHELVING - 36"x18"x84"	N	CFCI	8	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	No	0"		36"x18"x84"		LYON WORKSPACE PRODUCTS MODEL 8038SH & 8038H	3' FRONT	
PS-4	FLAMMABLE MATERIAL CABINET - 43"x18"x66"	N	CFCI	4	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	No	0"		43"x18"x65"		LYON WORKSPACE PRODUCTS MODEL 5445N	3' FRONT	
PS-5	STAND-UP DESK	N	CFCI	1	115 V	1	60 Hz	20 A	0	POWER STRIP	Yes		No	0	No	0 CFM	0	No	0"		35"x28"x52"		LYON WORKSPACE PRODUCTS STANDING SHOP DESK 2250	3' FRONT	
PS-6	PALLET TRUCK	N	CFCI	2	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	No	0"				JET PTW-2748 PALLET JACK		
PS-7	ELECTRIC FORKLIFT - 4000 LBS. CAPACITY	N	CFCI	1	120 V	1	60 Hz	20 A	0	TO CHARGE BATTERY	Yes		No	0	No	0 CFM	0	No	0"		11'-0"x48"x84"		ELECTRIC FORKLIFT CLARK MODEL		
PS-8	GAS CYLINDER STORAGE RACKS	N	CFCI	2	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	No	0"		40" x 32" x 71"		ULINE MODEL #H-5656		
PS-9	PARTS CART	N	CFCI	4	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	No	0"		48" x 24" x 39"		DURHAM MODEL #RSC-2448-3-3K-TLD-95		
PS-10	DOCK LIFT	N	CFCI	1	460 V	3	60 Hz	0 A	5	HW W/ 24V CONTROLS	No		No	0	No	0 CFM	0	No	0"		12' x 8'		BLUE GIANT EQUIPMENT CORP. DOCK LIFT		
REPAIR TRACKS																									
MARK	TYPE	STATUS	SUPPLIED BY	QTY	ELECTRICAL DATA					ELECTRICAL COMMENTS	PLUG REQ'D	COMPRESSED AIR	FLR	WATER (GPM)	VENT REQ'D	VENT CFM	GAS (MBH)	DRAIN REQ'D	DRAIN SIZE	PHONE LINE	SIZE (WxDxH)	WEIGHT	DESCRIPTION	EQUIP CLEARANCE	COMMENTS
					VOLTS	PHASE	HERTZ	AMP	HP																
HR-1	DOUBLE HOIST - 20 TON DOUBLE GIRDER TOP RUNNING CRANE	N	CFCI	1	480 V	3	60 Hz	0 A	39	HW	No		No	0	No	0 CFM	0	No	0"		54'-6" SPAN	26,520	CRANETECH INC MODEL QXD20-TON I+II		
HR-3	HEAVY DUTY WORKBENCH WITH VISE - 6' x30"x34"	N	CFCI	8	115 V	1	60 Hz	20 A	0	POWER STRIP	Yes		No	0	No	0 CFM	0	No	0"		72"x30"x34"		HEAVY DUTY LONG WORKBENCH WITH WILTON TRADESMAN VISE	3' FRONT	
HR-4	PARTS WASHER	N	CFCI	4	115 V	1	60 Hz	10 A	0		Yes		No	0	No	0 CFM	0	No	0"		36"x32"x39.5"		SAFETY KLEEN MODEL 90.5	3' FRONT	
HR-5	MOBILE SCISSOR LIFT	N	CFCI	1	120 V	1	60 Hz	27 A	0	27 AMP BATTERY CHARGER	Yes		No	0	No	0 CFM	0	No	0"		56"x30"x75"	1940	JLG ELECTRIC LIFT MODEL ES1530L		
HR-6	FLUID REEL BANK (LUBRICANT, COOLANT, GEAR, AIR)	N	CF/CI	1	0 V	0	0 Hz	0 A	0		No	10 CFM/100 PSI	Yes	0	No	0 CFM	0	No	0"				GRACO AIR HOSE REEL, FLUID REELS	13' AFF BELOW REEL	
HR-7	LOCOMOTIVE OIL EVACUATION SYSTEM	N	CFCI	1	0 V	0	0 Hz	0 A	0		No	40 CFM / 100 PSI	Yes	0	No	0 CFM	0	No	0"		1" Dia x 50'		WASHMAN MANUAL HOSE REEL AND GRACO DIAPHRAGM PUMP		
HR-8	LOCOMOTIVE COOLANT EVACUATION SYSTEM	N	CFCI	1	0 V	0	0 Hz	0 A	0		No	40 CFM / 100 PSI	Yes	0	No	0 CFM	0	No	0"		1" Dia x 50'		WASHMAN MANUAL HOSE REEL AND GRACO DIAPHRAGM PUMP		
HR-9	SCISSOR LIFT - 2000 LBS.	N	CFCI	2	120 V	1	60 Hz	20 A	1	CHARGING OF UNIT	Yes		No	0	No	0 CFM	0	No	0"		2000 ILBS. CAP.		AIR TECH - MODEL #DSL-23248E		
HR-10	COMPUTER SHOP CABINET	N	CFCI	4	115 V	1	60 Hz	20 A	0		Yes		No	0	No	0 CFM	0	No	0"		28"x30"x69"		CABINET FOR COMPUTER EQUIPTO MODEL #ECWS-303069	3' FRONT	
HR-11	ADJUSTABLE HEIGHT MOBILE ACCESS PLATFORM	N	CFCI	2	0 V	0	0 Hz	0 A	0		No	SHOP AIR	No	0	No	0 CFM	0	No	0"				MP INDUSTRIES MODEL ALS80120-A		
HR-12	STORAGE SHELVING - 36"x18"x84"	N	CFCI	8	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	No	0"		36"x18"x84"		LYON WORKSPACE PRODUCTS MODEL 8038SH & 8038H	3' FRONT	
HR-13	FLAMMABLE MATERIAL CABINET - 43"x18"x66"	N	CFCI	4	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	No	0"		43"x18"x65"		LYON WORKSPACE PRODUCTS MODEL 5445N	3' FRONT	
HR-14	5-1/2 TON COLUMN LIFT (SET OF 8)	N	CFCI	1	480 V	3	60 Hz	25 A	0	SPECIAL PLUG	Yes		No	0	No	0 CFM	0	No	0"		49"x45"x126"	870	WHITING 5-1/2 TON COLUMN LIFT	3' FRONT OF CONTROL PANEL	
HR-15	FLUID REEL BANK (AIR, ELECTRIC)	N	CF/CI	19	120 V	1	60 Hz	20 A	0		Yes	10 CFM/100 PSI	Yes	0	No	0 CFM	0	No	0"				GRACO AIR HOSE REEL, SAF-T-LITE ELECTRIC REEL	13' AFF BELOW REEL	
HR-18	CHASSIS GREASE PUMP - PORTABLE	N	CFCI	1	0 V	0	0 Hz	0 A	0		No	7.3 CFM / 100 PSI	Yes	0	No	0 CFM	0	No	0"		16" x 16"		GRACO DRUM MOUNTED GREASE PUMP PACKAGE #246915		
HR-19	FALL PROTECTION UNIT - 310'	N	CFCI	1	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	No	0"		310' LONG		RIGID LIFELINES - DUAL BYPASS TRACK, 4 SRL'S	BELOW TRUSS	

SCHEDULE LEGEND:

OFCO OWNER FURNISHED / CONTRACTOR DEMOLISH
OFOI OWNER FURNISHED / OWNER INSTALLED
CFCI CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
N NEW
E EXISTING

Local File: BIM_360\067272_Metrolink Orange County Maintenance Facility\067272_MB_Q_central_R20_BIM360.rvt
Central File: BIM360\1_Q_central_R20.rvt

Project Number: 067272
4/6/2022 3:33:39 PM

1	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3			
REV	DATE	DESCRIPTION	BY	APP	

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DESIGNED BY
LJL
DRAWN BY
TPK
CHECKED BY
TMD
APPROVED BY
Approver
DATE:
04/11/2022

FOR
REVIEW
ONLY
NOT FOR
CONSTRUCTION



METROLINK®



Gannett Fleming

SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

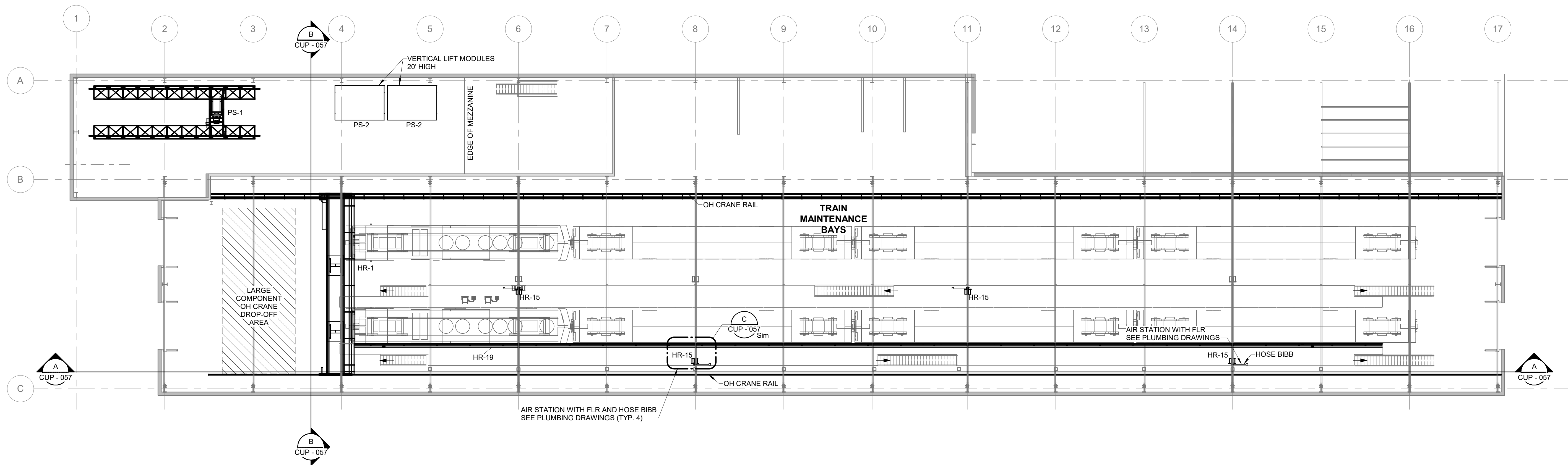
METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT

INDUSTRIAL
MAINTENANCE BUILDING EQUIPMENT SCHEDULE

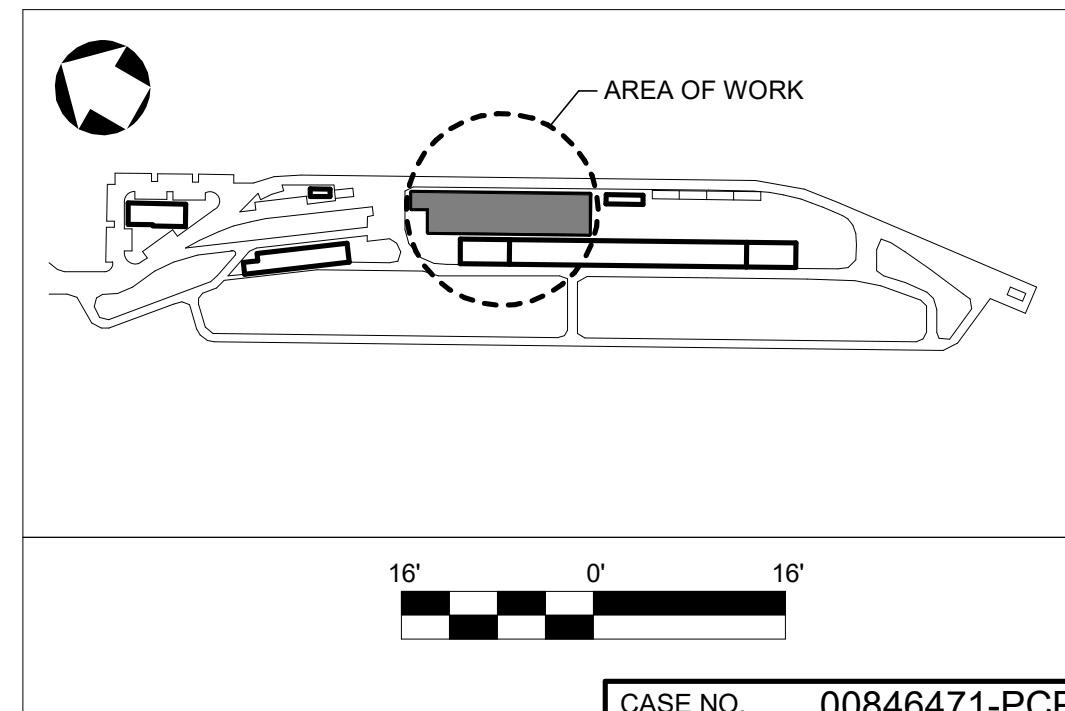
CASE NO. 00846471-PCPU	
CONTRACT NO.	
DRAWING NO. CUP - 055	
REVISION 1	SHEET NO. 56
SCALE	

Local File BIM 360/067272 - Metrolink Orange County Maintenance Facility\067272_MB_Q_central_R20_BIM360.rvt
Central File: BIM360\1_Q_central_R20.rvt

Project Number: 067272
4/6/2022 3:33:39 PM



1 INDUSTRIAL EQUIPMENT - OVERALL PLATFORM LEVEL PLAN
CUP - 056 SCALE: 1/16" = 1'-0"



1	REV	DATE	DESCRIPTION	BY	APP
1	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3			

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METROLINK



Gannett Fleming

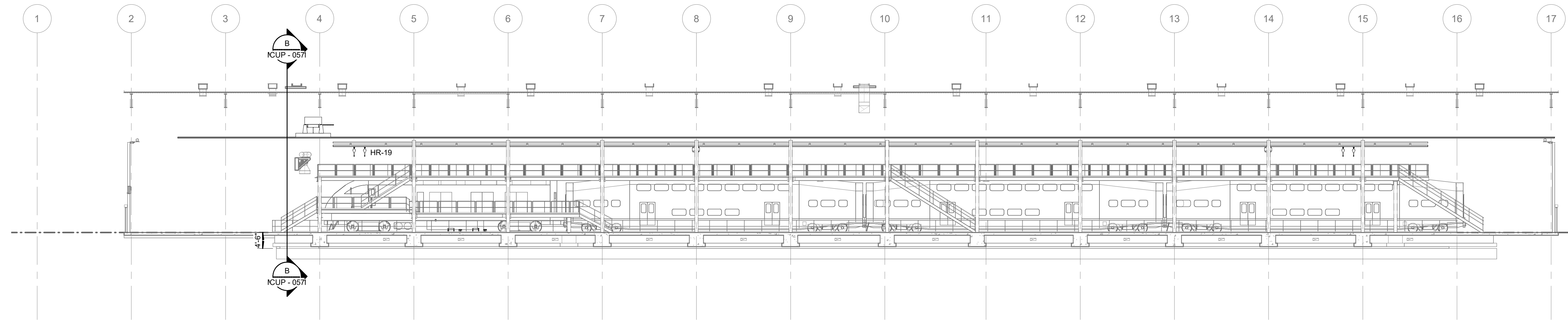
SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

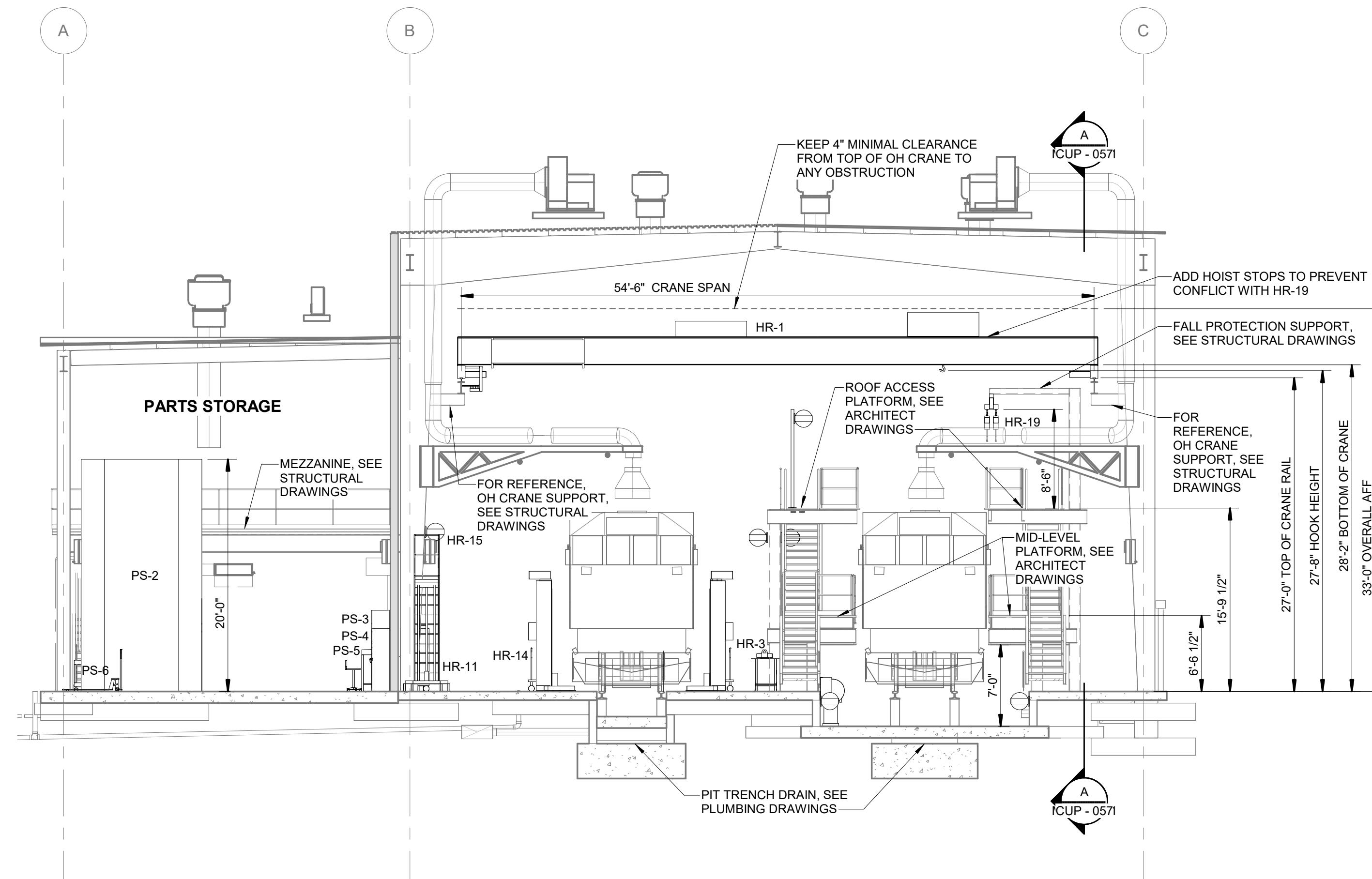
**METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT**

**INDUSTRIAL
MAINTENANCE BUILDING PLATFORM LEVEL PLAN**

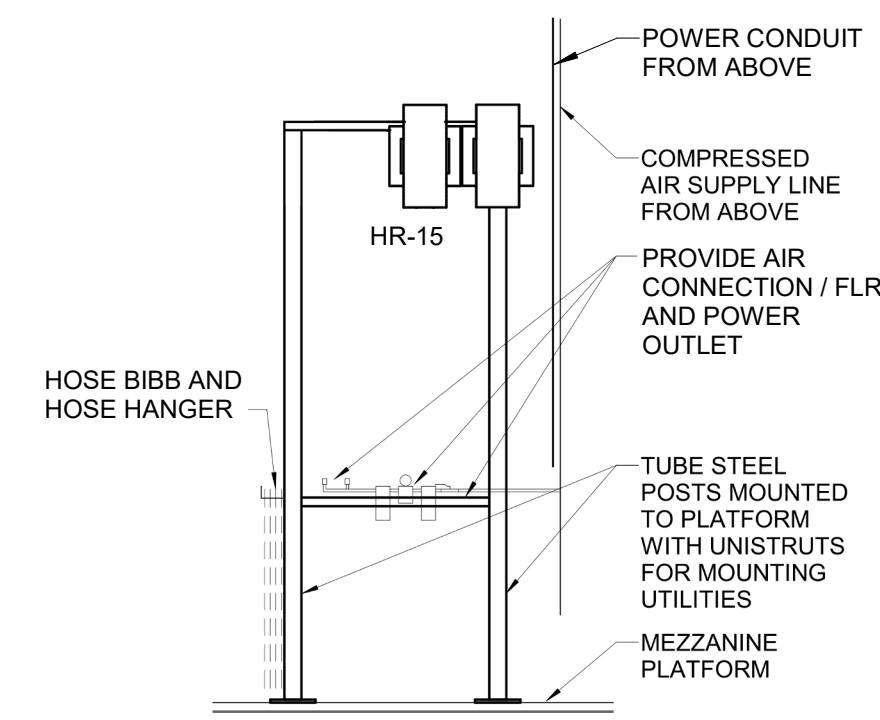
CASE NO.	00846471-PCPU
CONTRACT NO.	
DRAWING NO.	CUP - 056
REVISION	SHEET NO.
1	57
SCALE	AS INDICATED



A INDUSTRIAL EQUIPMENT - CROSS SECTION A
CUP - 056 SCALE: 1/16" = 1'-0"



B INDUSTRIAL EQUIPMENT - CROSS SECTION B
CUP - 056 SCALE: 1/8" = 1'-0"



C UTILITY STATION DETAIL
CUP - 056 SCALE: 1" = 30'-0"

Local File BIM 360/067272_Metrolink Orange County Maintenance Facility/067272_MB_Q_central_R20_BIM360.rvt
Central File: BIM360\1_Q_central_R20.rvt

Project Number: 067272
4/6/2022 3:33:41 PM

1	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3	DESCRIPTION	BY	APP
REV	DATE				

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LJL
DRAWN BY
TPK
CHECKED BY
TMD
APPROVED BY
Approver
DATE:
04/11/2022

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SUBMITTED: _____
PROJECT MANAGER
APPROVED: _____

METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

INDUSTRIAL
MAINTENANCE BUILDING SECTIONS AND DETAILS

CASE NO.	00846471-PCPU
CONTRACT NO.	
DRAWING NO.	CUP - 057
REVISION	SHEET NO.
1	58
SCALE	AS INDICATED

SERVICE AND INSPECTION AREA INDUSTRIAL EQUIPMENT SCHEDULE

SERVICE AND INSPECTION TRACKS																									
MARK	TYPE	STATUS	SUPPLIED BY	QTY	ELECTRICAL DATA					ELECTRICAL COMMENTS	PLUG REQ'D	COMPRESSED AIR	FLR	WATER (GPM)	VENT REQ'D	VENT CFM	GAS (MBH)	DRAIN REQ'D	DRAIN SIZE	PHONE LINE	SIZE (WxDxH)	WEIGHT	DESCRIPTION	EQUIP CLEARANCE	COMMENTS
					VOLTS	PHASE	HERTZ	AMP	HP																
SI-1	FUEL CRANE DISPENSING SYSTEM	N	CFCI	4	120 V	1	60 Hz	20 A	0		No		No	0	No	0 CFM	0	No	0"				SNYDER EQUIPMENT FUEL CRANE W/ METER ASSEMBLY		
SI-2	SANDING DISPENSER	N	CFCI	16	120 V	1	60 Hz	20 A	0		Yes		No	0	No	0 CFM	0	No	0"		40"x36"x80"		KLEIN PALMER STATIONARY SANDING STATION	3' FRONT AND SIDES	
SI-3	SAND SYSTEM / SILO	N	CFCI	2	480 V	3	60 Hz	0 A	8	HW WITH 120V CONTROL PANEL	No	8 CFM/90 PSI	Yes	0	No	0 CFM	0	No	0"		8" Dia.x26"-8" for Silo		KLEIN PALMER SILO, TRANSPORTER, DUST COLLECTOR, PIPING		
SI-4	DEF DISPENSER STATION (NOZZLE, HOSE AND TOTALIZER)	N	CFCI	4	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	No	0"		26"x26"x64"		FLUIDALL DEF DISPENSING CABINET DEFGRDC	3' FRONT	
SI-5	FLUID REEL BANK (LUBRICANT, WATER, SOAP, GEAR, AIR)	N	CF/CI	4	0 V	0	0 Hz	0 A	0		No	10 CFM/100 PSI	Yes	0	No	0 CFM	0	No	0"				GRACO FLUID HOSE REEL	13' AFF BELOW REEL	
SI-6	FUEL MANAGEMENT SYSTEM	N	CFCI	2	120 V	1	60 Hz	20 A	0		No		No	0	No	0 CFM	0	No	0"	DATA LINE			FUEL FORCE		

SCHEDULE LEGEND:

OFCD OWNER FURNISHED / CONTRACTOR DEMOLISH
OFOI OWNER FURNISHED / OWNER INSTALLED
CFCI CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
N NEW
E EXISTING

Local File BIM 360/067272 - Metrolink Orange County Maintenance Facility\067272_SIA_Q_central_R20_BIM360.rvt
Central File: BIM360\Q_central_R20.rvt

Project Number: 067272
4/11/2022 1:08:49 PM

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REV

04/11/2022

DATE

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DESCRIPTION

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METROLINK®

Gannett Fleming

SUBMITTED: _____
PROJECT MANAGER

APPROVED: _____

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT

INDUSTRIAL
S & I TRACK AND FUELING STATION SCHEDULE & NOTES

CASE NO. 00846471-PCPU

CONTRACT NO.

DRAWING NO. CUP - 058

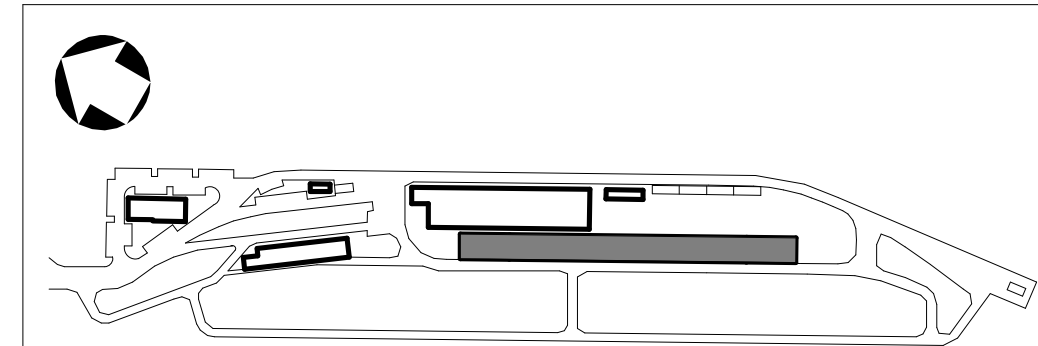
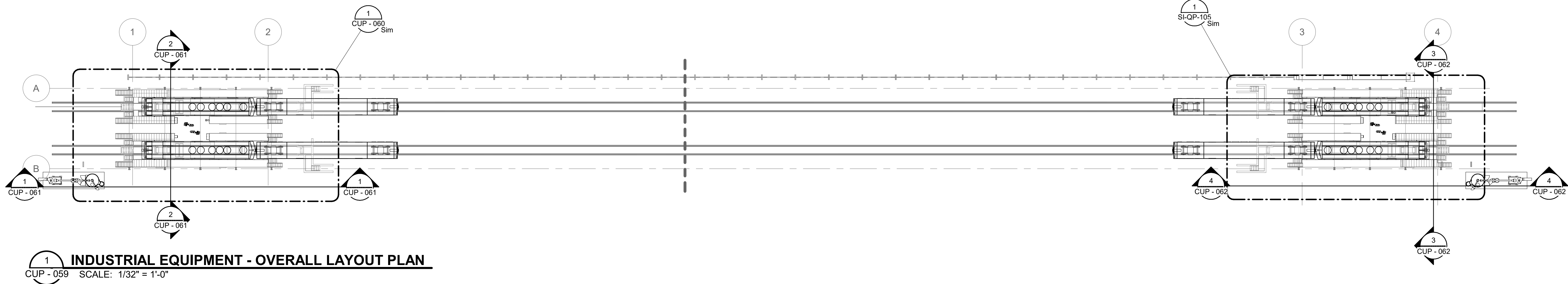
REVISION 1

SHEET NO. 59

SCALE

Local File: BM 360\067272 - Metrolink Orange County Maintenance Facility\067272_SIA_Q_central_R20_BIM360.rvt
Central File: BM360\1_Q_central_R20.rvt

Project Number: 067272
4/6/2022 4:00:12 PM

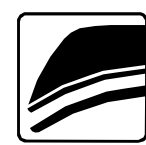


REV	DATE	DESCRIPTION	BY	APP
1	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3		

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PROJECT MANAGER

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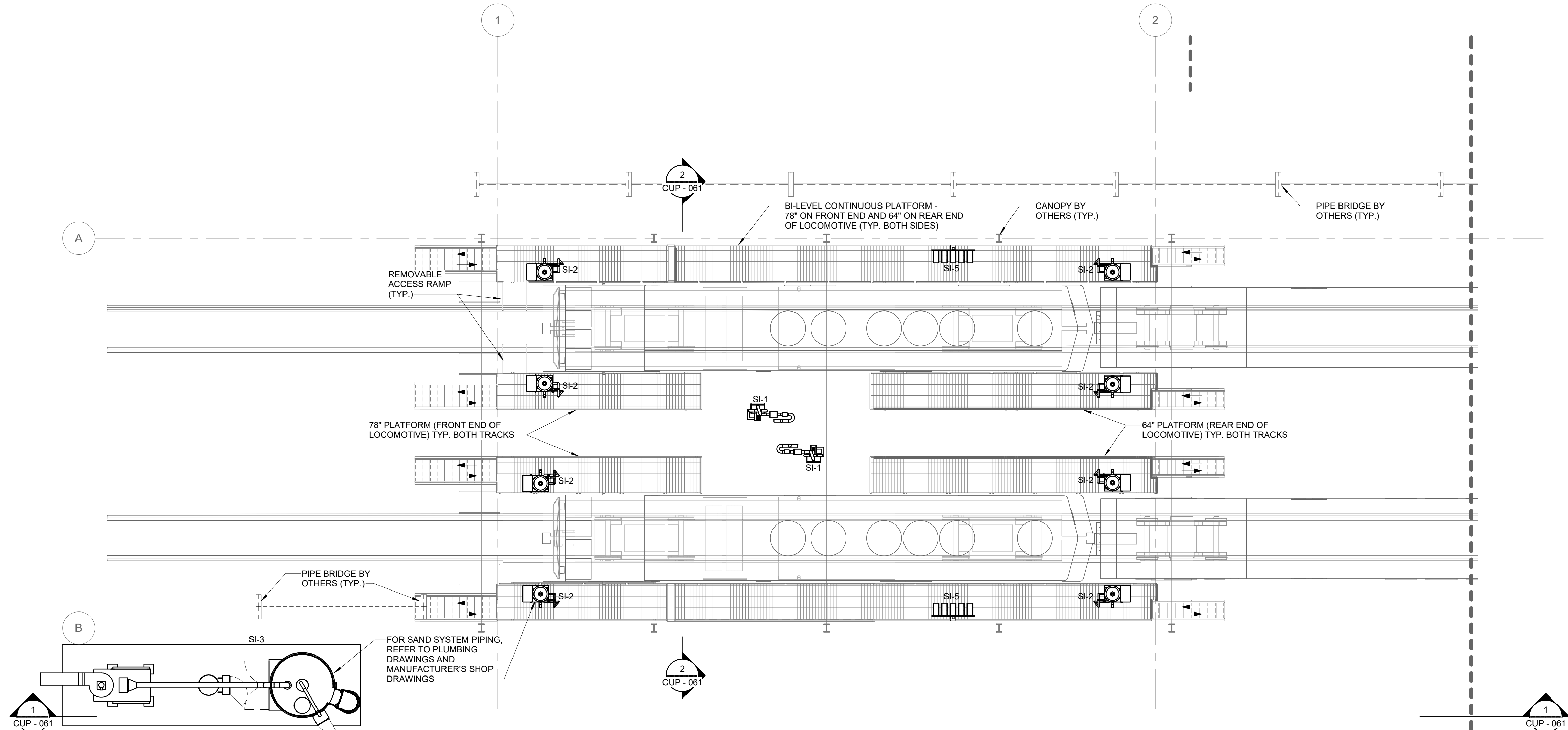
**METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT**

**INDUSTRIAL
S & I FUELING STATION AND TRACKS OVERALL FLOOR PLAN**

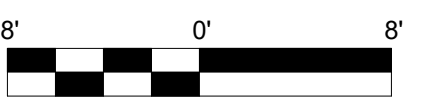
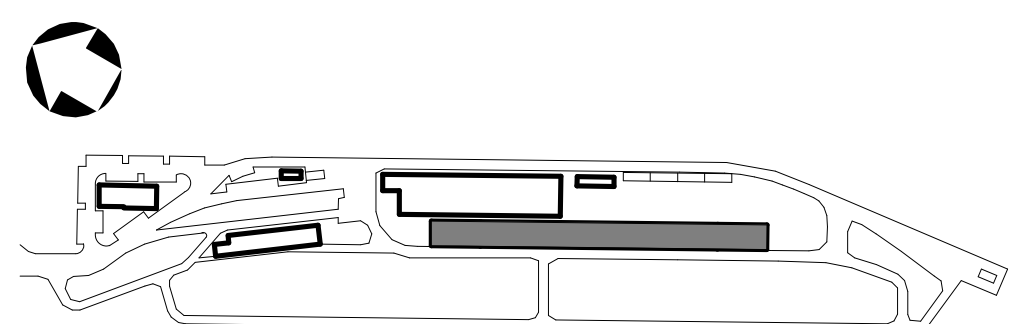
CASE NO.	00846471-PCPU
CONTRACT NO.	
DRAWING NO.	CUP - 059
REVISION	SHEET NO.
1	60
SCALE	AS INDICATED

Local File: BM 360.067272 - Metrolink Orange County Maintenance Facility\067272_SIA_Q_central_R20_BM360.rvt
Central File: BM360\1_Q_central_R20.rvt

Project Number: 067272
4/6/2022 4:00:13 PM



1 INDUSTRIAL EQUIPMENT - PARTIAL PLAN - PLATFORM (NORTH)
CUP - 060 SCALE: 1/8" = 1'-0"



1	REV	DATE	DESCRIPTION	BY	APP
1	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3			

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Gannett Fleming

SUBMITTED: PROJECT MANAGER

APPROVED:

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MAINTENANCE FACILITY PROJECT

INDUSTRIAL
S & I FUELING STATION PARTIAL PLAN - PLATFORM (NORTH)

CASE NO. 00846471-PCPU
CONTRACT NO.
DRAWING NO. CUP - 060
REVISION 1 SHEET NO. 61
SCALE AS INDICATED



CASE NO.		00846471-PCPU	
CONTRACT NO.			
DRAWING NO.		CUP - 061	
REVISION	SHEET NO.		
1	62		
SCALE			
AS INDICATED			

TRAIN WASH BAY

SCHEDULE LEGEND:

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APPROVED:

INDUSTRIAL

TRAIN WASH BUILDING EQUIPMENT SCHEDULE & GENERAL NOTES

CASE NO. 00846471-PCPU

CONTRACT NO.

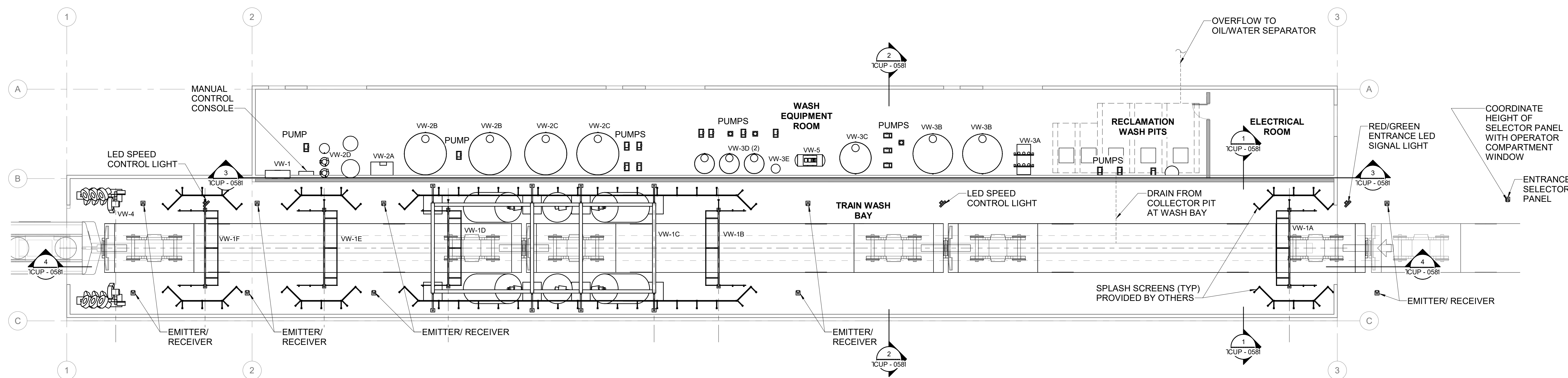
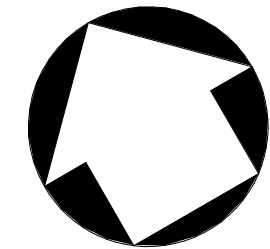
DRAWING NO.
CUP - 062

REVISION	SHEET NO
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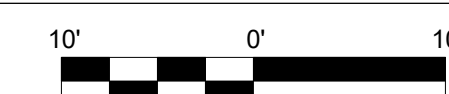
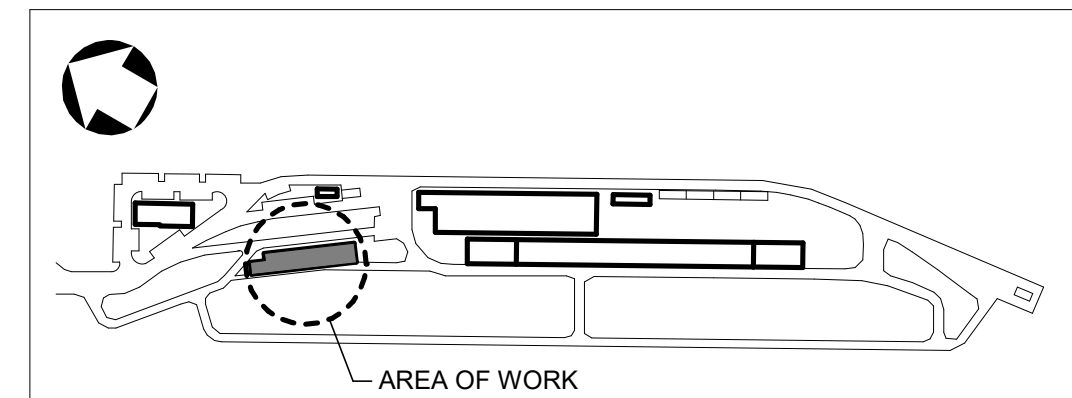
1

63

SCALE



1 INDUSTRIAL EQUIPMENT - OVERALL GROUND FLOOR PLAN
CUP - 063 SCALE: 1" = 10'-0"



Local File BIM 360/067272 - Metrolink Orange County Maintenance Facility/067272_TWB_Q_central_R20_BIM360.rvt
Central File: BIM360\Q_central_R20.rvt

Project Number: 067272
4/11/2022 12:23:36 PM

1	04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3	DESCRIPTION	BY	APP
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METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT

INDUSTRIAL
TRAIN WASH BUILDING OVERALL EQUIPMENT FLOOR PLAN

CASE NO.	00846471-PCPU
CONTRACT NO.	
DRAWING NO.	CUP - 063
REVISION	SHEET NO.
1	64
SCALE	AS INDICATED