## SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY

## METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

MARINE WAY AND RIDGE VALLEY

50 CUP-049 FIRE ACCESS PLAN - SHEET 1 OF 2

DRAWINGS ADDED IN REVISION 3:

56 CUP-055 MAINTENANCE BUILDING EQUIPMENT SCHEDULE

61 CUP-060 S & IFUELING STATION AND TRACKS PARTIAL PLAN

- PLATFORM (NORTH)

49 CUP-048 GENERAL AUTOTURN LAYOUT PLANS GARBAGE TRUCK

FIRE ACCESS PLAN - SHEET 2 OF 2

55 CUP-054 COMPOSITE PLANS OF UTILITY REARRANGEMENT - SHEET 1 OF 4

MAINTENANCE BUILDING PLATFORM LEVEL PLAN

MAINTENANCE BUILDING SECTIONS AND DETAILS

S & IFUELING STATION SECTIONS AND DETAILS

64 CUP-063 TRAIN WASH BUILDING OVERALL EQUIPMENT FLOOR PLAN

S & ITRACK AND FUELING STATION SCHEDULE & NOTES

S & IFUELING STATION AND TRACKS OVERALL FLOOR PLAN

TRAIN WASH BUILDING EQUIPMENT SCHEDULE & GENERAL NOTES

COMPOSITE PLANS OF UTILITY REARRANGEMENT - SHEET 1 OF 4

COMPOSITE PLANS OF UTILITY REARRANGEMENT - SHEET 1 OF 4

COMPOSITE PLANS OF UTILITY REARRANGEMENT - SHEET 1 OF 4

## LEGAL DESCRIPTION

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:

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:

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.

EXCEPT THEREFROM ALL THAT LAND LYING NORTHERLY OF THE FOLLOWING DESCRIBED LINE:

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".

ALSO, EXCEPT THEREFROM ALL THAT LAND LYING WITHIN A 25 FOOT STRIP OF LAND, THE SOUTHERLY LINE DESCRIBED AS FOLLOWS:

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.

SAID STRIP SHALL BE LENGTHENED OR SHORTENED TO TERMINATE SOUTHWESTERLY IN SAID SOUTHWESTERLY LINE OF BOOK 1264, PAGE 154 OF SAID OFFICIAL RECORDS.

APN: 580-765-01

## PROJECT TEAM

ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET, P.O. BOX 14184 ORANGE, CA 92863-1584 (714)560-5743

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

## DRAWING INDEX

## **GENERAL**

PROJECT INFO, DRAWING INDEX & VICINITY PLAN DRAWING ABBREVIATIONS & DRAWING SYMBOL LEGEND

## EXISTING AND PROPOSED SITE PLANS

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05	CUP-005	EXISTING SITE PLAN - SHEET 1 OF 4
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07	CUP-007	EXISTING SITE PLAN - SHEET 3 OF 4
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GENERAL VEHICLE PROFILES AND TURNING GENERAL VEHICLE PROFILES AND TURNING

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TRANSPORTATION BUILDING ELEVATIONS UTILITY BUILDING - OVERALL FLOOR PLAN

UTILITY BUILDING ELEVATIONS TRAIN WASH BUILDING - OVERALL FLOOR PLAN

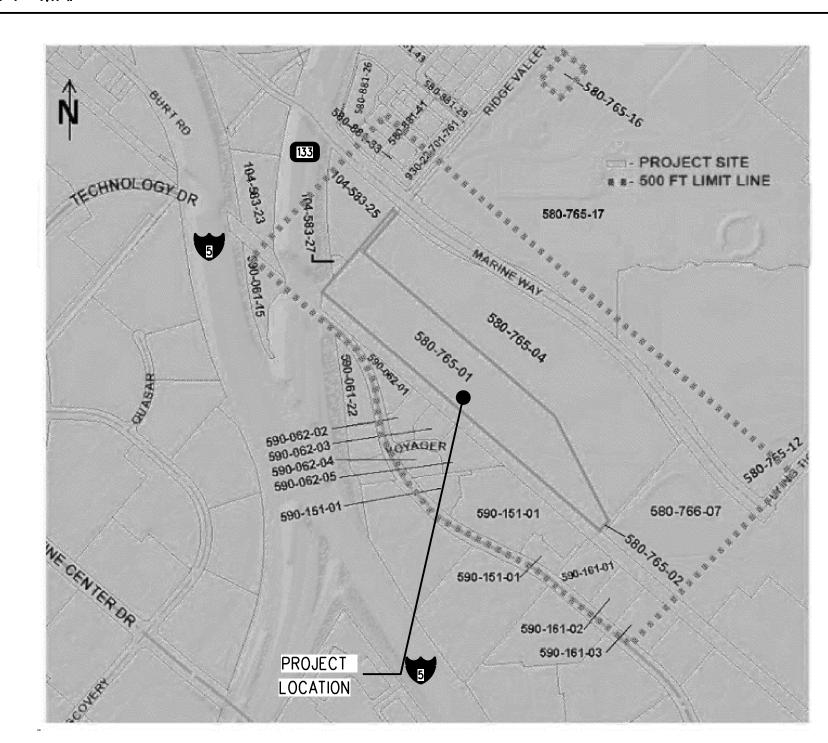
TRAIN WASH BUILDING ELEVATIONS 46 CUP-045 PUMP HOUSE - OVERALL FLOOR PLAN

47 CUP-046 PUMP HOUSE BUILDING ELEVATIONS

## DESCRIPTION OF WORK

THIS PROJECT CONSISTS OF SITE GRADING AND CONSTRUCTION OF RAILROAD TRACKS AND FIVE BUILDINGS, INCLUDING ACCESS ROADS DRAWINGS ADDED IN REVISION 1: UTILITIES, EROSION CONTROL, LANDSCAPING AND IRRIGATION. 48 CUP-047 GENERAL AUTOTURN LAYOUT PLANS

### VICINITY MAP



## 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

51 PLANNING AREA:

6.1 (INSTITUTIONAL) ZONING DESIGNATION:

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

> 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 | SHEET NO. SCALE AS SHOWN

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ATTN: LORA CROSS lcross@octa.net

INFORMATION CONFIDENTIAL All plans, drawings, specifications, and or information furnished herewith shall main the property of the the Southern California 3 4/11/22 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3 Regional Rail Authority and 2 | 01/10/22 | CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2 shall be held confidential; and shall not be used for | 10/13/21 | CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1 for in gareements with the 0 | 6/30/21 | CONDITIONAL USE PERMIT SUBMITTAL Southern California Regional DATE Rail Authority. REV. DATE SUB, APP.

M BIGGS M BIGGS CHECKED BY J NEFF M FREEMAN

04/11/2022

NOT FOR CONSTRUCTION



QTY ACASPHALT CONCRETE GALVANIZED QUANTITY AREMA MANUAL FOR RAILWAY ENGINEERING, 2021 AHD GAGE PLATE AHE AD SCRRA DESIGN CRITERIA MANUAL (NOVEMBER 2014) ansi AMERICAN NATIONAL STANDARD INSTITUTE GUARD RAIL PLATE RADIUS SCRRA ENGINEERING STANDARDS (AS OF JUNE 2020) COLUMN APP APPROVED GALVANIZED RIGID STEEL VERTICAL CURVE RATE OF CHANGE FRA TRACK SAFETY STANDARDS REFERENCE **APPROX** APPROXIMATE RAILBOUND MANGANESE FRA TRACK SAFETY STANDARDS 49 CODE OF FEDERAL REGULATIONS GRIDS AS REQUIRED REINFORCED CONCRETE PIPE (CFR) SECTIONS 213,214,234,236 A/R AMERICAN RAILWAY ENGINEERING AND **RCPA** AREMA HIGH-DENSITY POLYETHYLENE REINFORCED CONCRETE PIPE ARCH CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, 2019 EDITION MAINTENANCE-OF-WAY ASSOCIATION HEEL LENGTH RD ROAD CALIFORNIA BUILDING CODE (CBC), 2019 EDITION REF ARS REFERENCE AUTOMATIC ROUTE SELECTOR HEEL PLATE CALIFORNIA BUILDING CODE (CBC), CHAPTER 11B - ACCESSIBILITY ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS HORIZONTAL REINFORCING AMERICANS WITH DISABILITIES ACT (ADA) **ELEVATION** AMERICAN SOCIETY FOR TESTING AND HIGH STRENGTH REQUIRED CALIFORNIA FIRE CODE, 2019 EDITION MATERIALS RESTRAINING WALL CALIFORNIA MECHANICAL CODE, 2019 EDITION AVE INSIDE DIAMETER AVENUE REVISION CALIFORNIA PLUMBING CODE, 2019 EDITION **PROJECT** AWG AMERICAN WIRE GAUGE INSULATED JOINT RIGHT HAND CALIFORNIA ELECTRICAL CODE, 2019 EDITION NORTH INCH OR INCHES CALIFORNIA ENERGY CODE, 2019 EDITION 11/2" • 1" - 0 BC BARE COPPER RAILROAD INTERNATIONAL FIRE CODE 2021 BD BLOWDOWN JOINT RIGHT NATIONAL FIRE PROTECTION ASSOCIATION (NFPA BEG - NFPA 13-2016. STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS ROW, R/W RIGHT OF WAY A-123 BK BACK LOS ANGELES AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE), CHAPTERS 7-16, MINIMUM DESIGN LOS ANGELES COUNTY FLOOD CONTROL DISTRICT BASELINE SPIKE AND TIE LOADS FOR BUILDINGS AND OTHER STRUCTURES AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE), CHAPTERS 5-11, BUILDING CODE BLDG BUILDING LOS ANGELES COUNTY METROPOLITAN SPIKE AND WASHER BLUE LIGHT STATION BLS TRANSPORTATION AUTHORITY SERVICE AISLE REQUIREMENTS FOR MASONRY STRUCTURES → BREAKS OF BUILDING COMPONENTS SOUTHBOUND AMERICAN CONCRETE INSTITUTE (ACI), BUILDING CODE REQUIREMENTS FOR STRUCTURAL BLVD BOULEVARD LATERAL BURLININGTON NORTHERN AND SANTA FE RAILWAY STORM DRAIN CONCRETE (ACI 318-14) POUND CONSTRUCTION NOTES STORM DRAIN CATCH BASIN LINEAR FOOT/FEET AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL, 15TH EDITION, 2017 WITH LEADERS CENTERLINE LIQUIDTIGHT FLEXIBLE METAL CONDUIT SINGLE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), SECTION 341-16, SEISMIC SHEET C TO C CENTER TO CENTER PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, 2017 EDITION ·CALLOUT ∕-AREA CALLOUT CANT SIGNALS (TRAIN CONTROL) CANTILEVER LEFT HAND AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), SECTION 360-16, 2016 CLOSE CIRCUIT TELEVISION LAST LONG TIE SPACE, SPACING, SPECIAL PLATE AIR MOVEMENT AND CONTROL ASSOCIATION (AMCA) CLEAR, CLEARANCE CLR LIGHT RAIL VEHICLE STANDARD STRENGTH, SANITARY SEWER - AMCA 210, LABORATORY METHODS OF TESTING FANS FOR AERODYNAMIC CONC CONCRETE STREET PERFORMANCE RATING. - AMCA 300, REVERBERANT ROOM METHOD FOR SOUND TESTING OF FANS COND STATION CONDUIT LAMINATED THERMOPLASTIC CONN CONNECTION STANDARD - AMCA 301, METHODS FOR CALCULATING FAN SOUND RATINGS FROM LABORATORY CONST CONSTRUCTION MAXIMUM **SQUARE** TEST DATA CONT CONTINUOUS MINIMUM SUB SUBMITTED - AMCA 500-D, LABORATORY METHODS OF TESTING DAMPERS FOR RATING CONT'D SW **SWITCH** CONTINUED MANHOLE - AMCA 500-L, LABORATORY METHODS OF TESTING LOUVERS FOR RATING CPUC CALIFORNIA PUBLIC UTILITIES COMMISSION MAINLINE AIR-CONDITIONING AND REFRIGERATION INSTITUTE (ARI) CW MODIFIED TOP AND BOTTOM CARWASH - ARI 350, SOUND RATING OF NON-DUCTED INDOOR AIR CONDITIONING EQUIPMENT CWR CONTINUOUS WELDED RAIL MAINTENANCE-OF-WAY TRACK CENTERS, TOP OF CURB, TRAIN CONTROL - ARI 410, FORCED-CIRCULATION AIR COOLING AND AIR HEATING COILS TRAIN CONTROL COMMUNICATION COMMUNICATIONS AND SIGNALING MILE POST AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), BOILER AND PRESSURE VESSEL CODE, SYMBOLS: MILES PER HOUR TEMPORARY SECTION VIII, AND SECTION IX, 2017 EDITION DOUBLE THEORETICAL AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE) STANDARDS MEAN SEA LEVEL DESC DESCRIPTION METROPOLITAN TRANSPORTATION AUTHORITY TOE LENGTH, TAIL TRACK - ASHRAE 16, METHOD OF TESTING FOR RATING ROOM AIR CONDITIONERS AND PACKAGED TERMINAL AIR CONDITIONERS. TURNOUT DIRECT FIXATION DIAMETER NORTHBOUND TOP OF RAIL - ASHRAE 37, METHOD OF TESTING UNITARY AIR CONDITIONING AND HEAT EQUIPMENT CONSTRUCTION SYMBOLS DR TRACTION POWER SUBSTATION DRIVE NOT IN CONTRACT - ASHRAE 51, LABORATORY METHODS OF TESTING FANS FOR RATING PURPOSE DW DOMESTIC WATER NUMBER, NUMBERS TRK - ASHRAE 52.1, METHOD OF TESTING GENERAL VENTILATION AIR-CLEANING DEVICES FOR REMODEL EXISTING TRAIN-TO-WAYSIDE COMMUNICATIONS DRAWING NEGATIVE RETURN REMOVAL EFFICIENCY BY PARTICLE SIZE NOT TO SCALE TYP TYPICAL - ASHRAE 62, VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY ) REMOVE & RECONSTRUCT EACH - ASHRAE 68, LABORATORY METHOD OF TESTING TO DETERMINE THE SOUND POWER IN A DUCT ) WORK BY OTHERS REMOVE EASTBOUND - ASHRAE 79, METHODS OF TESTING FOR RATING FAN-COIL AIR CONDITIONERS ON CENTER(S) UNDERDRAIN OVERHEAD CONTACT SYSTEM UNIFIED (INCH) COARSE SCREW THREAD EXISTING GROUND - ASHRAE 90.1, ENERGY CONSERVATION IN BUILDINGS, EXCEPT LOW-RISE RESIDENTIAL BUILDINGS ) PROTECT IN PLACE ELEV **ELEVATION** CITY OF IRVINE - STANDARD PLANS AND DESIGN MANUALS (AUGUST 2013) OUTSIDE DIAMETER EXTENDED POLYSTYRENE **OPPOSITE** VERTICAL ZONING ORDINANCE OF THE CITY OF IRVINE (MAY 2020) EQ ORANGE COUNTY HYDROLOGY MANUAL (1986) EQUAL WESTBOUND **EQUATION** PUBLIC ADDRESS ORANGE COUNTY HYDROLOGY WORKBOOK (1987) WALKWAY **EQUILIBRIUM** PULLBOX ORANGE COUNTY LOCAL DRAINAGE MANUAL (JANUARY 1996) EMERGENCY TELEPHONES POINT OF CURVATURE WITH ORANGE COUNTY PUBLIC WORKS - MODEL WATER QUALITY MANAGEMENT PLAN (WQMP) (2011) ETS EMERGENCY TRIP STATION (BLS) POINT OF COMPOUND CURVATURE WITHOUT ORANGE COUNTY PUBLIC WORKS - TECHNICAL GUIDANCE DOCUMENT (TGD) (2013) EMERGENCY TRIP STATION FIRE POINT OF FROG  $\mathsf{EW}$ EACH WAY PRECAST FLOATING SLAB X-ING CROSSING **EXISTING CROSSOVER** PROFILE GRADE LINE X/0 POINT OF INTERSECTION FOUNDATION POINT OF INTERSECTION OF THE TURNOUT YARD CONTROL FINISH FLOOR POINT OF BEGINNING FROG GAUGE PLATE POINT OF ENDING FIXED INVERT PROPOSED FINISHED GRADE POINT OF SWITCH FLOW LINE POINT OF TANGENCY FIRE PROTECTION PASSENGER ASSISTANCE TELEPHONE FINISHED SURFACE **PVMT** PAVEMENT FOOT OR FEET FWY FREEWAY CASE NO. CONTRACT NO. DESIGNED BY C91143 METROLINK ORANGE COUNTY M BIGGS METROLINK® All plans, drawings, specifi-DRAWING NO. cations, and or information NOT furnished herewith shall MAINTENANCE FACILITY PROJECT M BIGGS emain the property of the FOR 3 4/11/22 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3 the Southern California CHECKED BY

APPLICABLE CODES

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**ABBREVIATIONS** 

REV. DATE

2 | 01/10/22 | CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2

0 | 6/30/21 | CONDITIONAL USE PERMIT SUBMITTAL

| 10/13/21 | CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1

Regional Rail Authority and

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and shall not be used for

any purpose not provided

Rail Authority.

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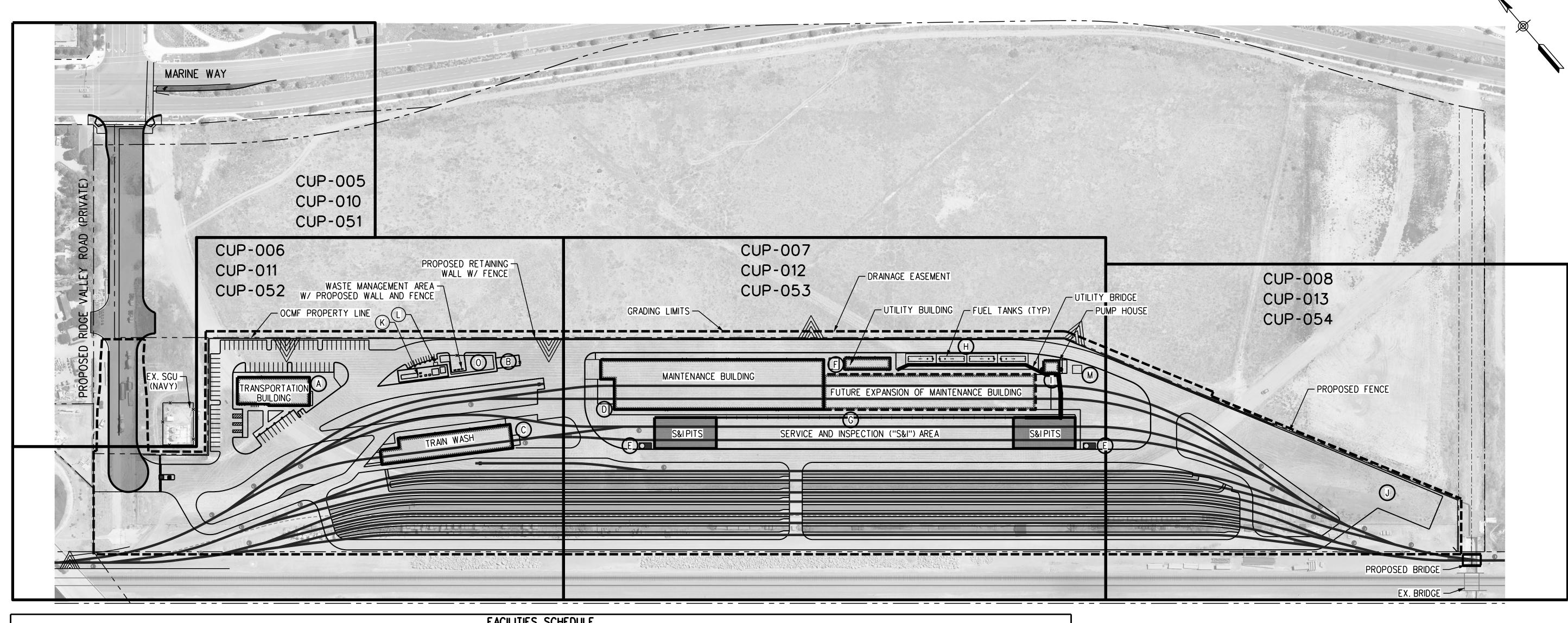
**Gannett Fleming** 

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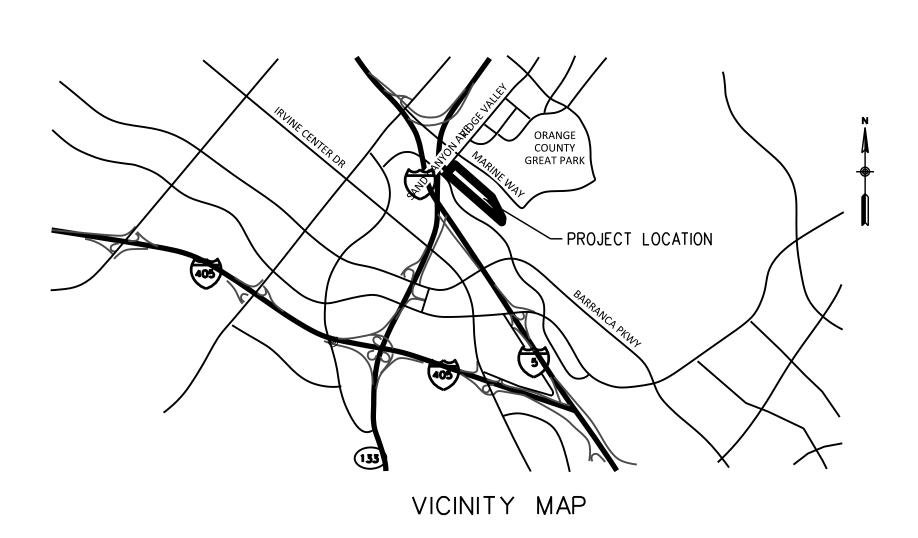
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DRAWING SYMBOL LEGEND

00846471-PCPU **CUP-002** REVISION | SHEET NO. SCALE AS SHOWN



	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			
©	TRAIN WASH BUILDING	AUTOMATED TRAIN WASH AND BLOWER/WATER STRIPPER			
0	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			
6	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			
$\forall$	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			
0	PUMP HOUSE	PUMP SKID, FUEL DISPENSING STATION FOR RUBBER-TIRE TRUCKS			
0	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 EXAUST FLUID TANK	TANK FOR ACCEPTING AND STORING DIESEL EXHAUST FLUID (DEF)			
0	WASTE MANAGEMENT AREA	DEDICATED TRASH AREA FOR RECYCLING, TRASH, AND ORGANIC FOOD WASTE			



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1''=100'			

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ρw	1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1		any purpose not provided	AP
C:	0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL		for in agreements with the Southern California Regional	DA
	REV.	DATE		BY SUB. APP.	Rail Authority.	

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<b>Example 1 Gannett Fleming</b>	SUBMITTED:PROJECT MANAGER

APPROVED:

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
PROJECT SITE KEY PLAN

CASE NO.	00846471-PCPU
CONTRACT	NO. C91143
DRAWING N	CUP-003
REVISION	SHEET NO.
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SCALE	
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1'' = 100'			

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1 10/13/21 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1

1 10/13/21 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1

REV. DATE

DESIGNED BY

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DESIGNED BY

DRAWN BY

CHECKED BY

APPROVED BY

D.SMITH

D.SALAZAR

J.NEFF

M.FREEMAN

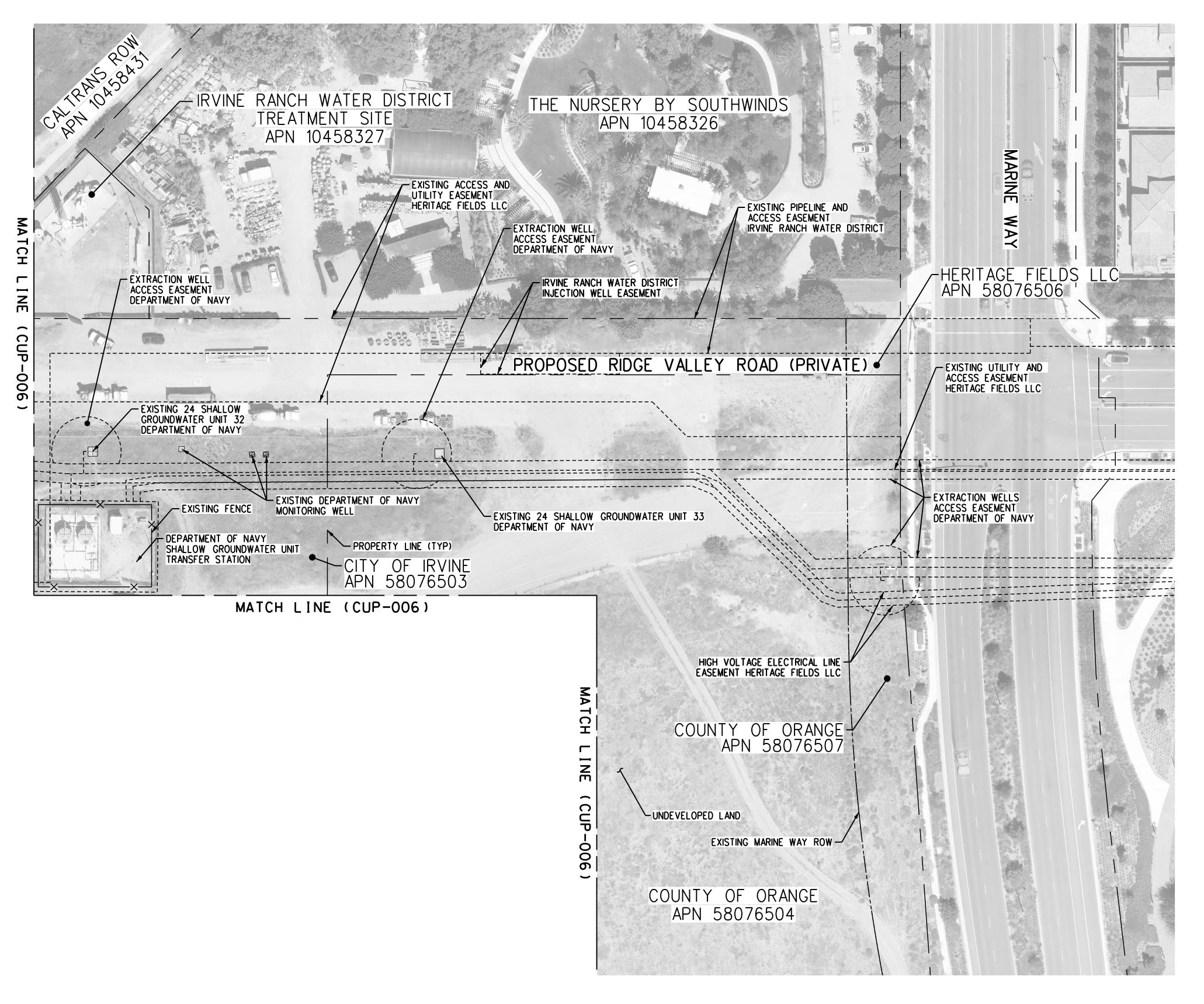
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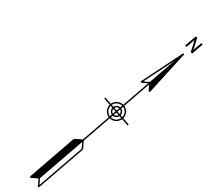
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1	<b>Gannett Fleming</b>	SUBMITTED:	PROJECT MANAGER

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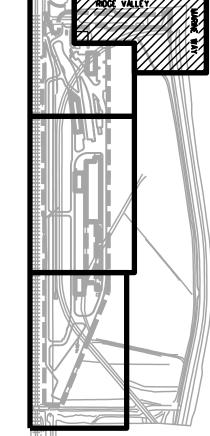
METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
EXISTING SITE PLAN - OVERALL VIEW

CASE NO.	00846471-PCPU
CONTRACT	NO. <b>C91143</b>
DRAWING N	CUP-004
REVISION	SHEET NO.
3	4
SCALE	
	AS SHOWN





KEY MAP



gfpw01\						INFORMATION CONFIDENTIAL:	DESIGNED BY
Md						All plans, drawings, specifi-	D. SMITH
\g\						cations, and or information furnished herewith shall	DRAWN BY
king	3	A/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3			remain the property of the the Southern California	J. KUNTHARA CHECKED BY
가	<u> </u>					Regional Rail Authority and shall be held confidential;	J. NEFF
/wor	Z		CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			and shall not be used for	APPROVED BY
Md/	1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1			any purpose not provided for in agreements with the	M. FREEMAN
í:	0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL			Southern California Regional	DATE
	REV.	DATE		BY SUB	APP.	Rail Authority.	04/11/2022

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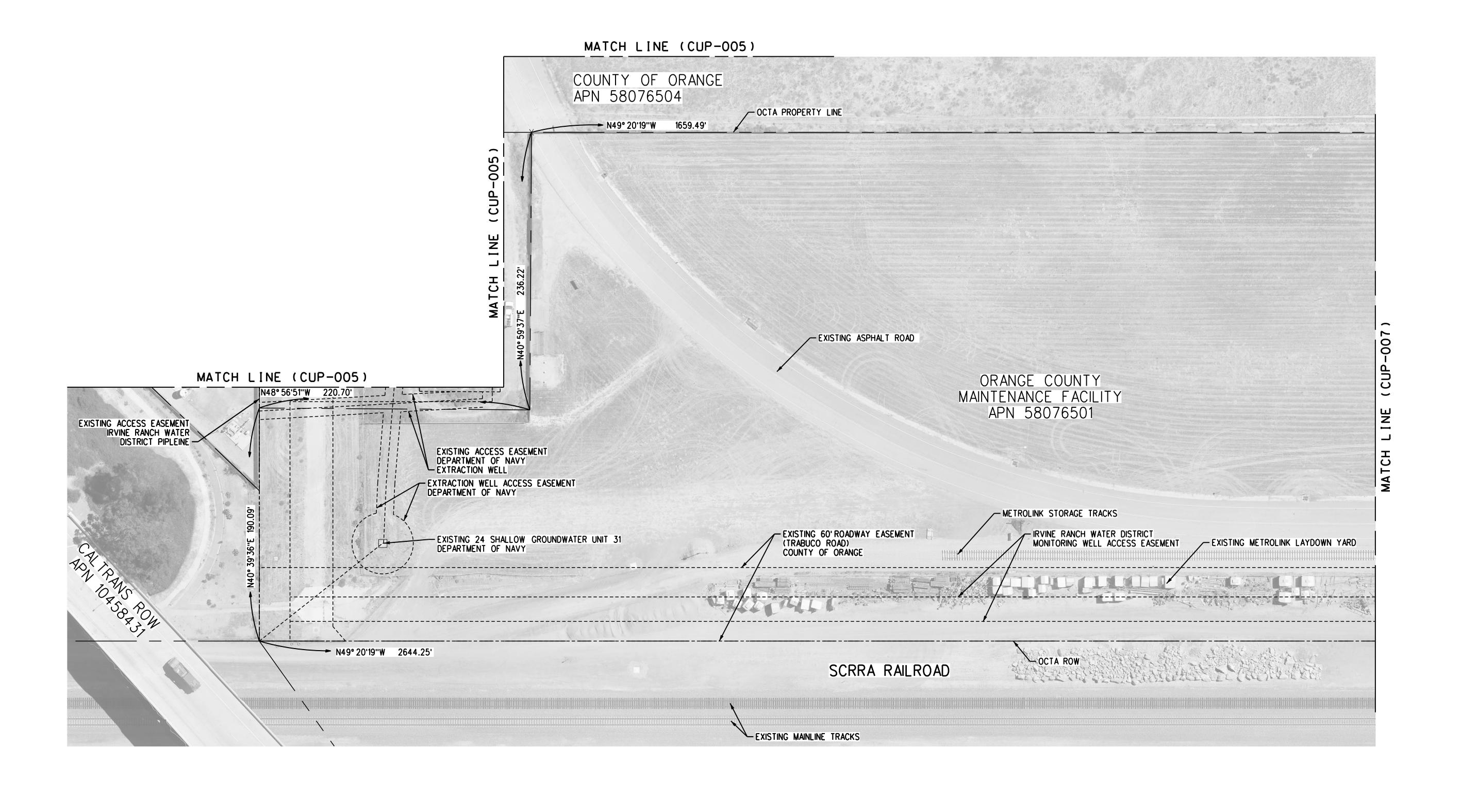
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<b>Gannett Fleming</b>	SUBMITTED:	PROJECT MANAGER

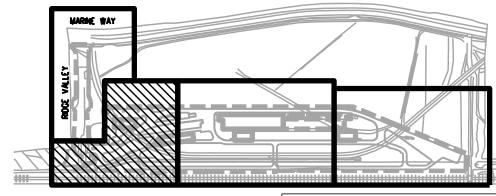
APPROVED:

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

CASE NO.	00846471-PCPU
CONTRACT	NO. <b>C91143</b>
DRAWING N	CUP-005
REVISION	SHEET NO.
3	5
SCALE	AS SHOWN







1"=40"

					All plans, drawings, specifications, and or information
					furnished herewith shall remain the property of the
3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3			the Southern California Regional Rail Authority and
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			shall be held confidential; and shall not be used for
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1			any purpose not provided
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL			for in agreements with the Southern California Regional
REV.	DATE		BY SUB	APP.	Rail Authority.

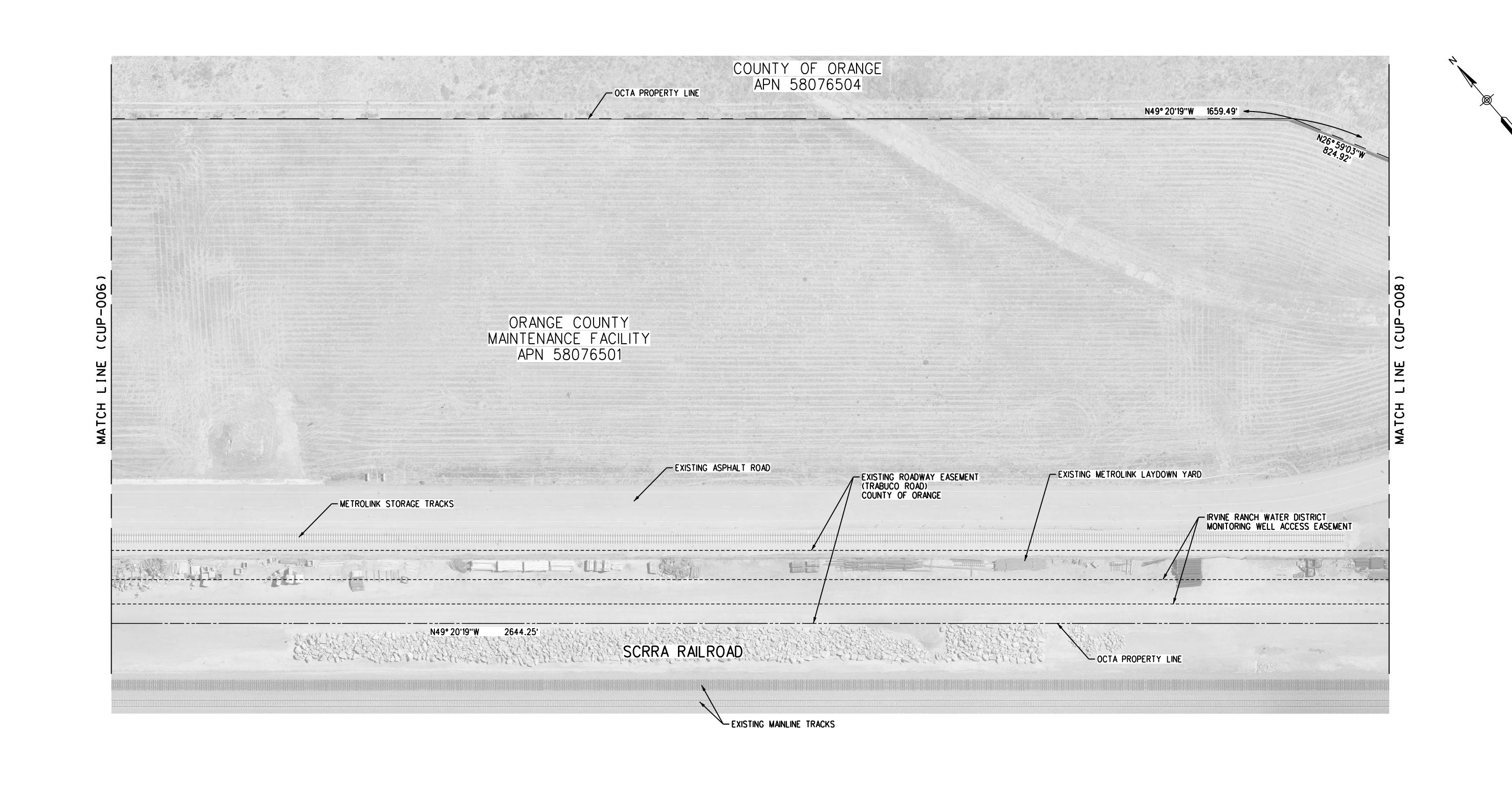
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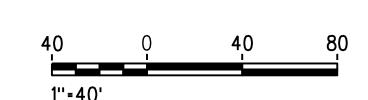
INFORMATION CONFIDENTIAL: All plans, drawings, specifications, and or information	DESIGNED BY D. SMITH	
furnished herewith shall remain the property of the	J. KUNTHARA	NOT FOR
the Southern California Regional Rail Authority and shall be held confidential:	CHECKED BY  J. NEFF	CONSTRUCTION
and shall not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

METI	ROLINK
<b>Gannett Fleming</b>	SUBMITTED:PROJECT MANAGER
	APPROVED:

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

CASE NO.	00846471-PCPL
CONTRACT	NO. <b>C91143</b>
DRAWING N	CUP-006
REVISION 3	SHEET NO.
SCALE	AS SHOWN





	KEY	MAP
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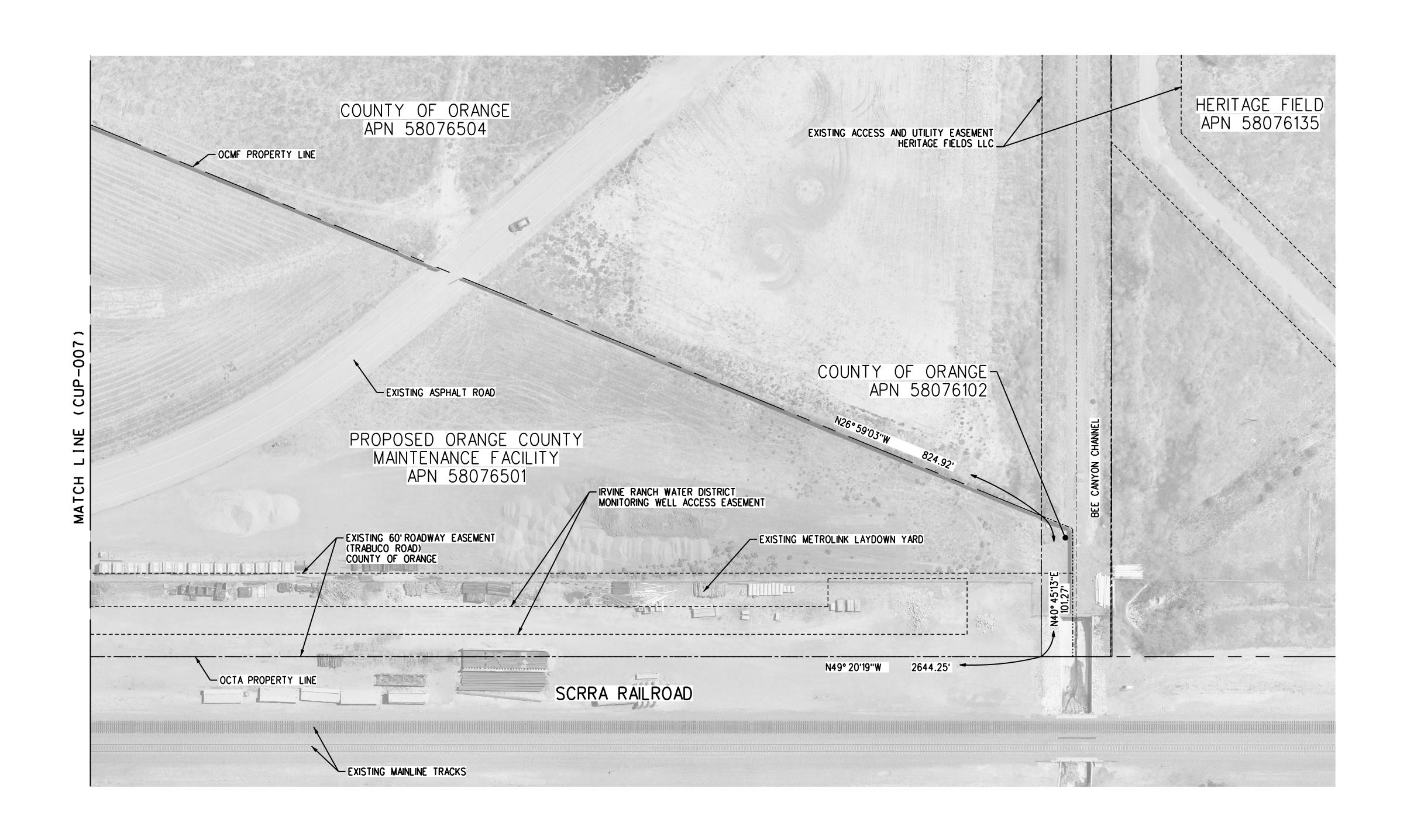
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wor	2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			shall be held confidential; and shall not be used for
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	REV.	DATE		BY SUB.	APP.	Rail Authority.

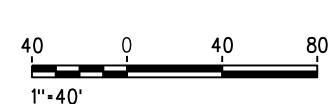
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DATE	
M. FREEMAN	
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J. NEFF	CONSTRUCTION
CHECKED BY	FOR
J. KUNTHARA	
DRAWN BY	NOT
D. SMITH	
DESIGNED BY	

	METI	ROLINK	
1	<b>Gannett Fleming</b>	SUBMITTED:PROJECT MANAGER	
		APPROVED:	

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

CASE NO.	00846471-PCPU
CONTRACT	NO. <b>C91143</b>
DRAWING N	
	CUP-007
REVISION	SHEET NO.
3	7
SCALE	
	AS SHOWN





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

CASE NO.	00	846471-PCPU
CONTRACT	NO.	C91143
DRAWING N		-008
REVISION	SHEET	NO.
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KEY MAP

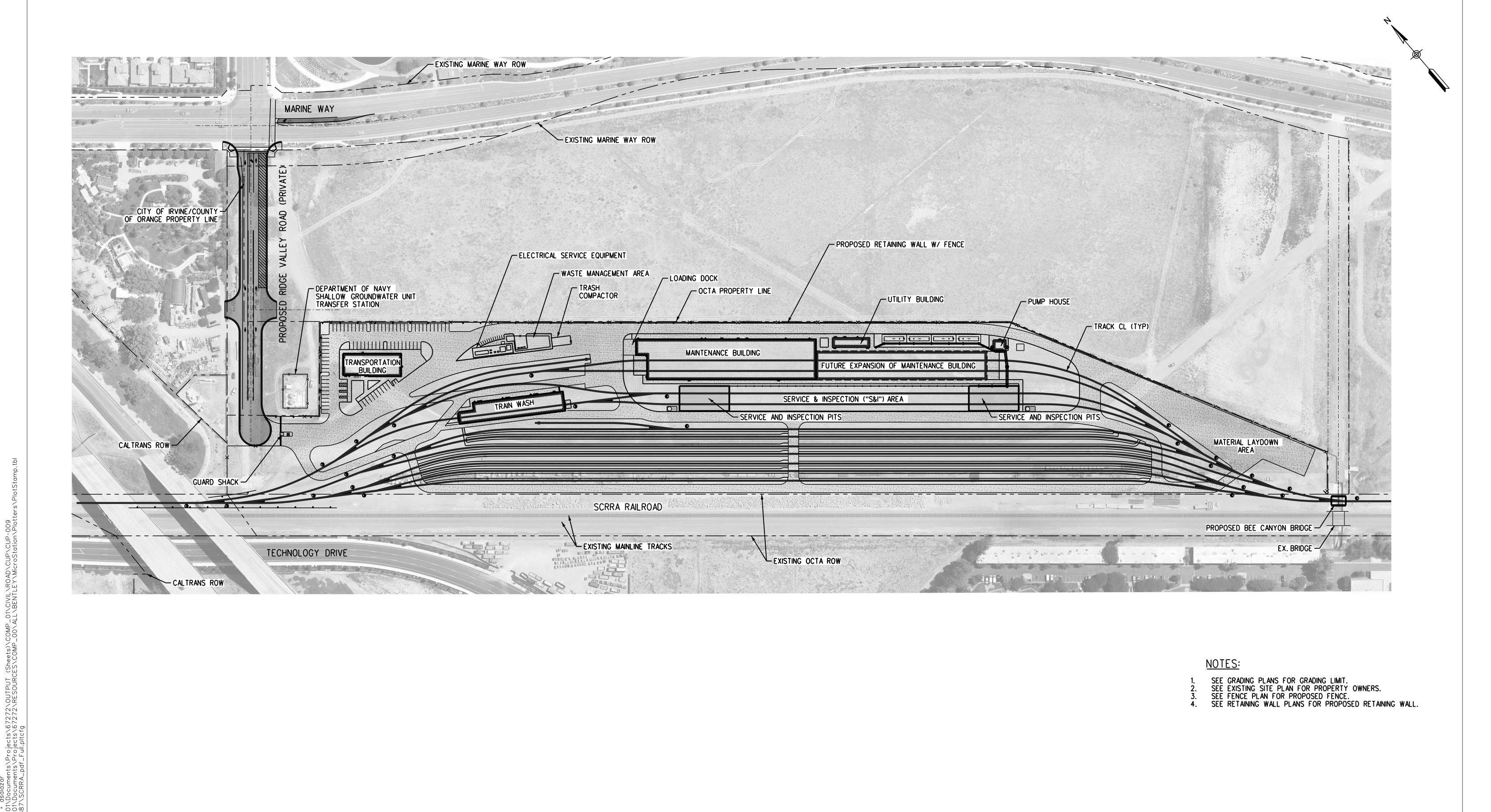
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/ / . / / . / M d	1	10/13/21	CONDITIONAL	USE PERMI	T SUBMITTAL	- REVISION	1			and shall not be used for any purpose not provided	AP
\$ <b>≥</b> ′	0	6/30/21	CONDITIONAL	USE PERMI	T SUBMITTAL					for in agreements with the Southern California Regional	DA
	REV.	DATE						BY SUB	APP.	Rail Authority.	

REV. DATE

BY SUB. APP.

DESIGNED BY DRAWN BY CHECKED BY APPROVED BY M. FREEMAN 04/11/2022

METROLINK® **E Gannett Fleming** 



## 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.

100	0	100	200
111 1001			

DESIGNED BY 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; 3 4/11/22 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3 CHECKED BY 2 01/10/22 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2 and shall not be used for APPROVED BY 10/13/21 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1 any purpose not provided for in agreements with the O 6/30/21 CONDITIONAL USE PERMIT SUBMITTAL Southern California Regional DATE Rail Authority.

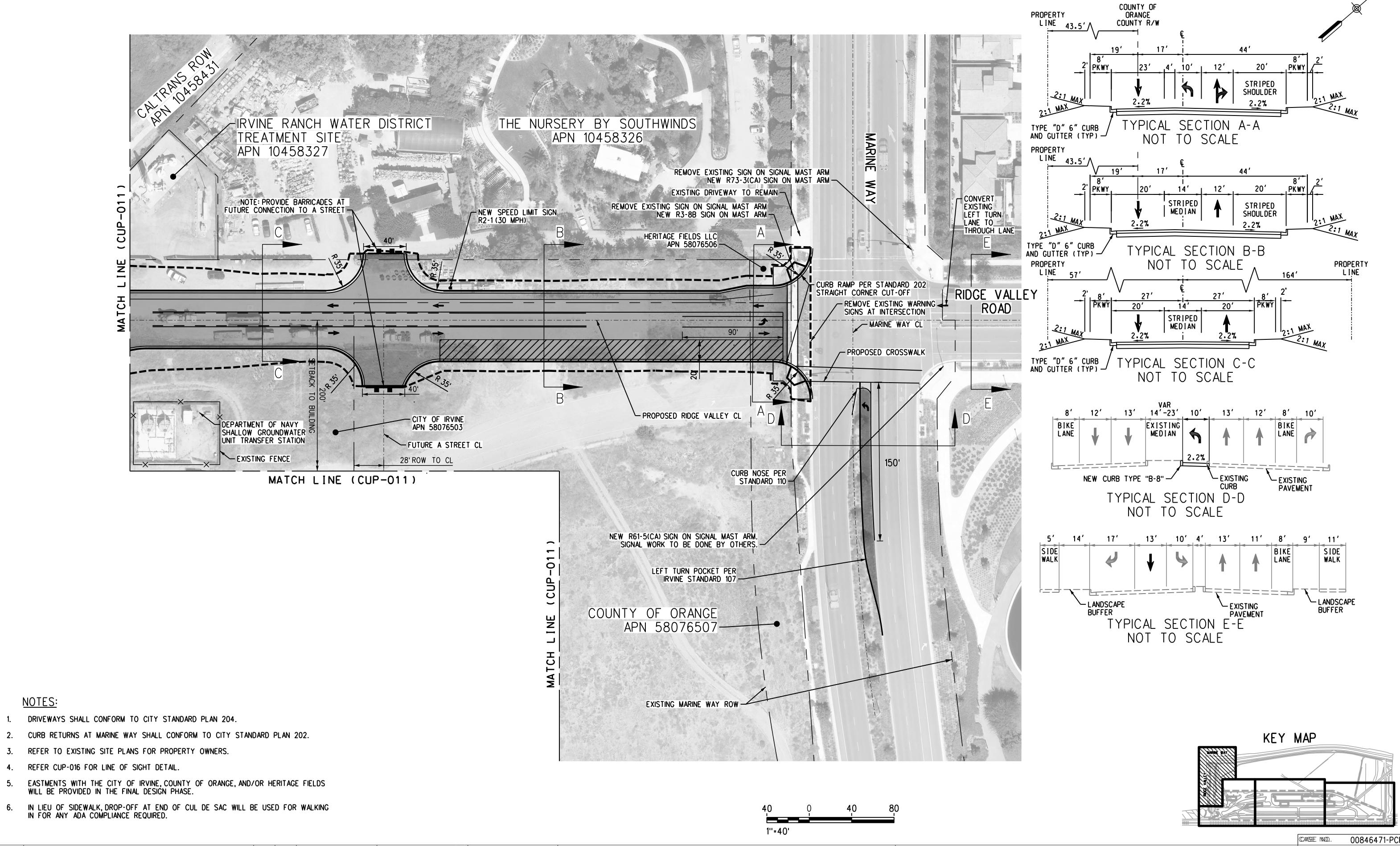
REV. DATE

D. SMITH NOT FOR D. SALAZAR J. NEFF CONSTRUCTION M. FREEMAN 04/11/2022



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

CASE NO.	008	846471-PCPU
CONTRACT	NO.	C91143
DRAWING N		-009
REVISION 3	SHEET	NO.
SCALE	AS SI	HOWN



NOTES:

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

All plans, drawings, specififurnished herewith shall the Southern California CHECKED BY 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 DATE Rail Authority.

D. SMITH NOT FOR D. SALAZAR J. NEFF M. FREEMAN

04/11/2022

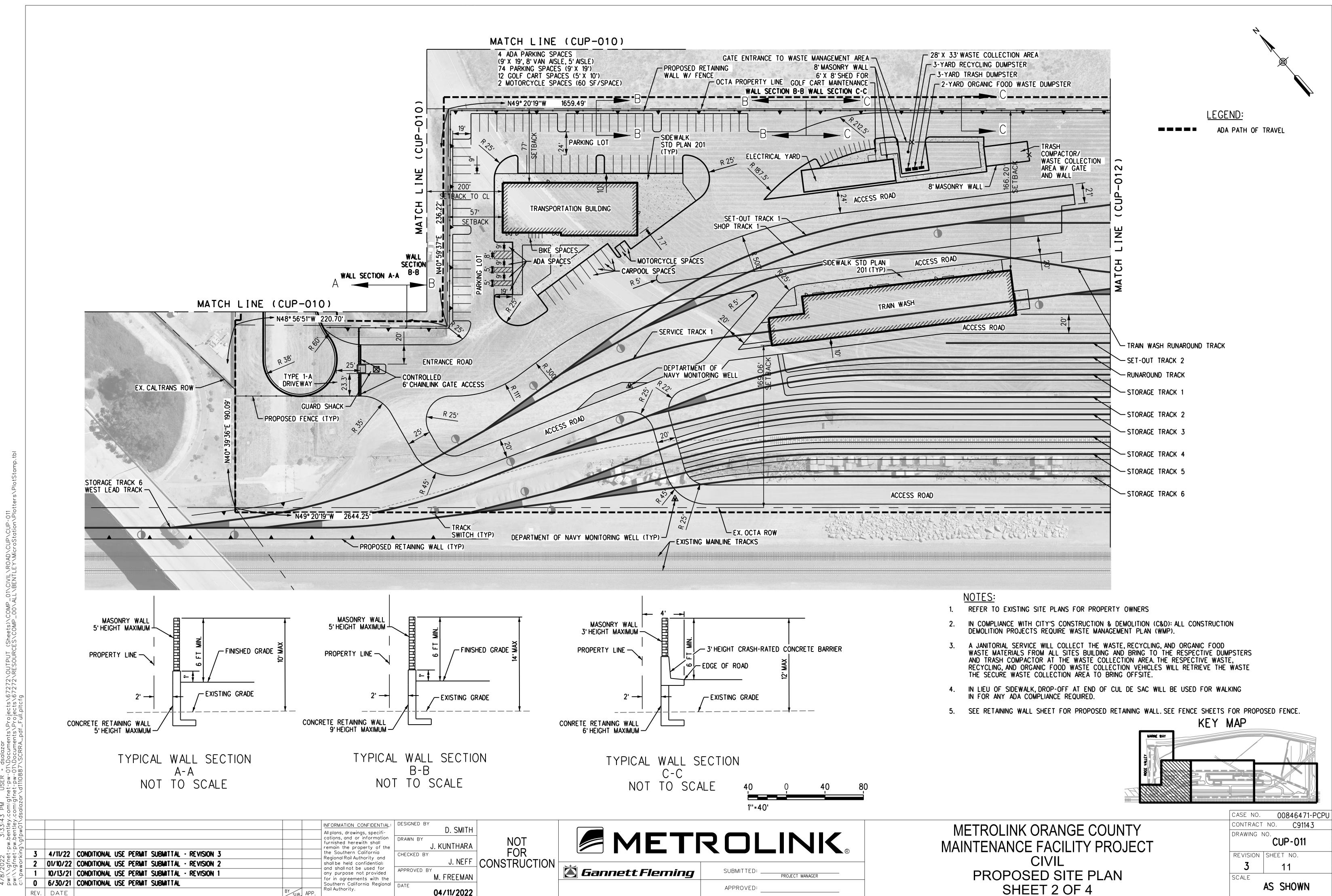
CONSTRUCTION



APPROVED:

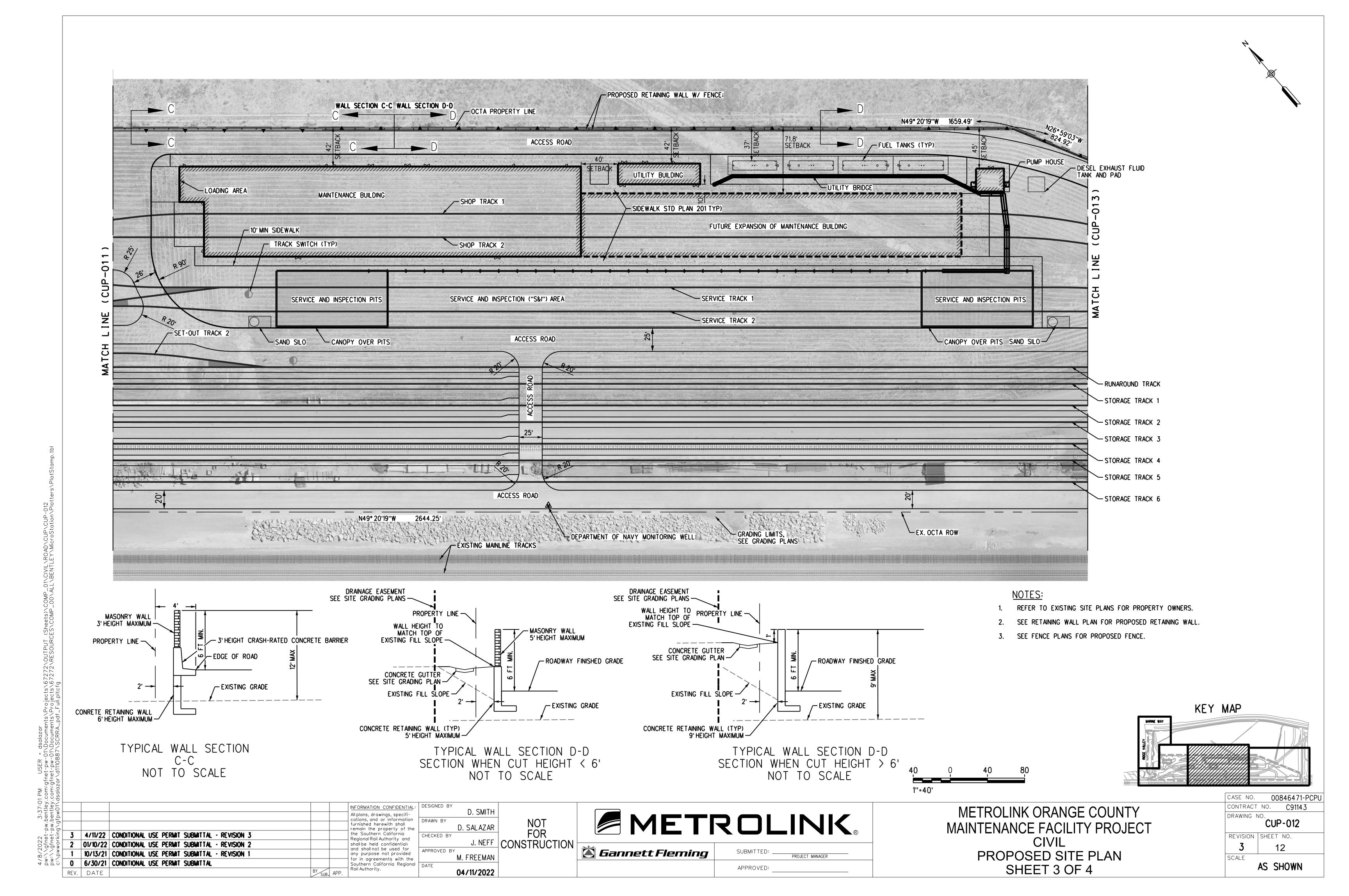
METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT CIVIL PROPOSED SITE PLAN SHEET 1 OF 4

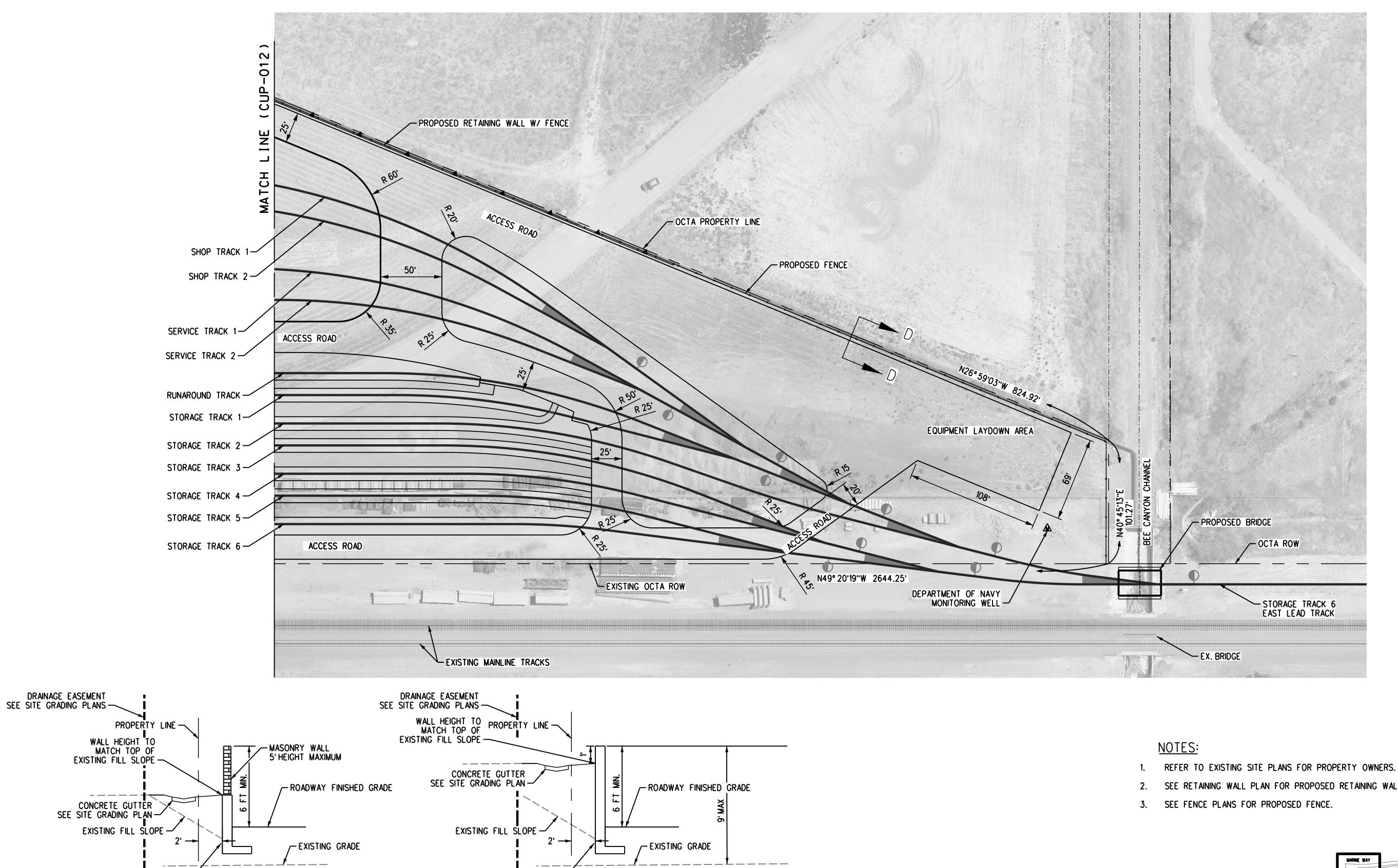
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CONTRACT	NO.	C91143
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REVISION	SHEET	NO.
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04/11/2022

REV. DATE





TYPICAL WALL SECTION D-D

SECTION WHEN CUT HEIGHT > 6'

NOT TO SCALE

- SEE RETAINING WALL PLAN FOR PROPOSED RETAINING WALL.

KEY MAP

	INFORMATION CONFIDENTIAL: All plans, drawings, specifications, and or information furnished herewith shall remain the property of the
SECTION WHEN CU NOT TO	

TYPICAL WALL SECTION D-D

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.

CONCRETE RETAINING WALL (TYP) 5' HEIGHT MAXIMUM -

3 4/11/22 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3 2 01/10/22 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2

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REV. DATE

10/13/21 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1

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04/11/2	2022	
DATE		
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APPROVED BY		
	NEFF	CONSTRUCTION
CHECKED BY		FOR
D. SALA	AZAR	NOT
DRAWN BY		NOT
D. S	MITH	
DESIGNED BY		

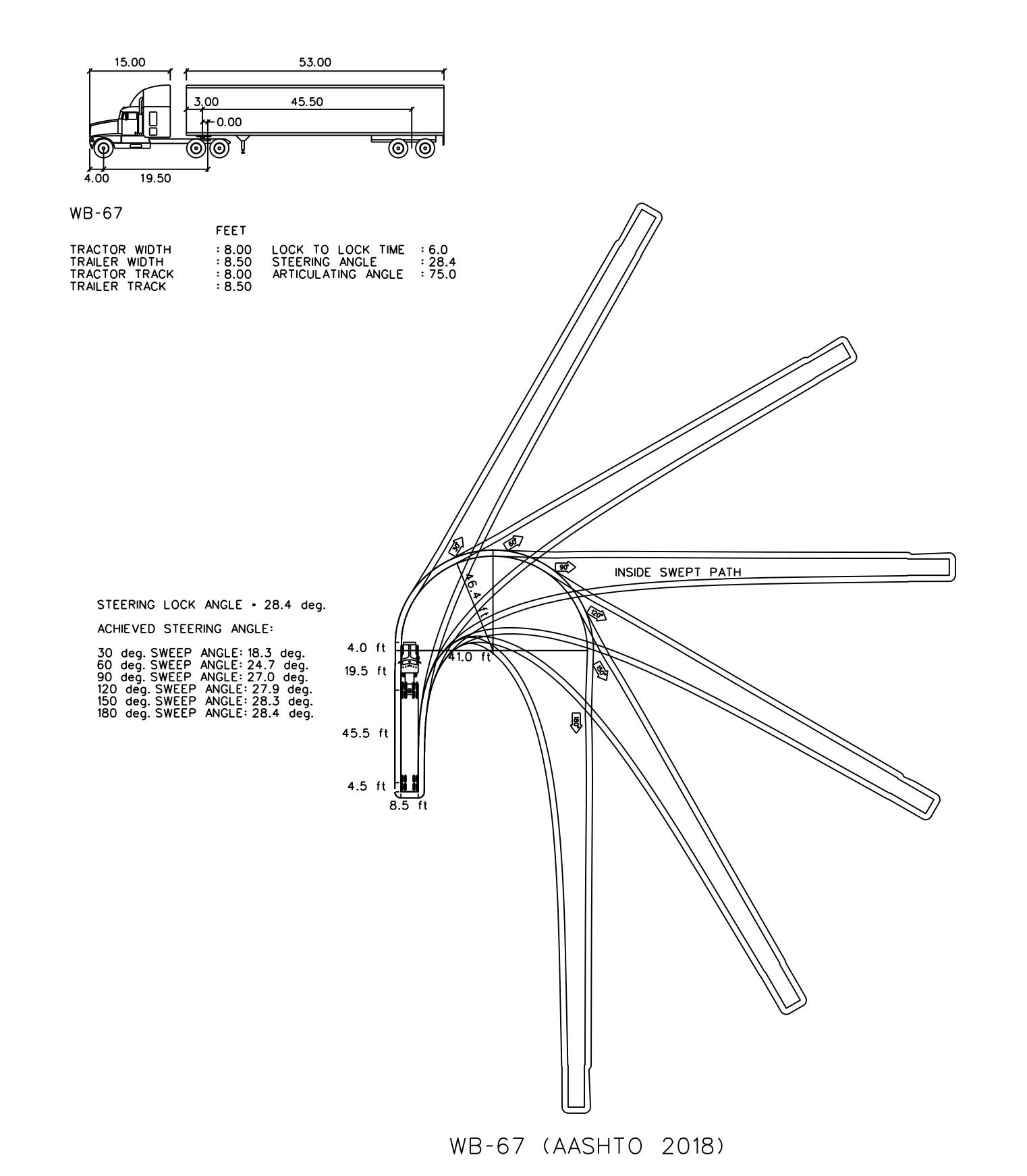
CONCRETE RETAINING WALL (TYP)
9' HEIGHT MAXIMUM

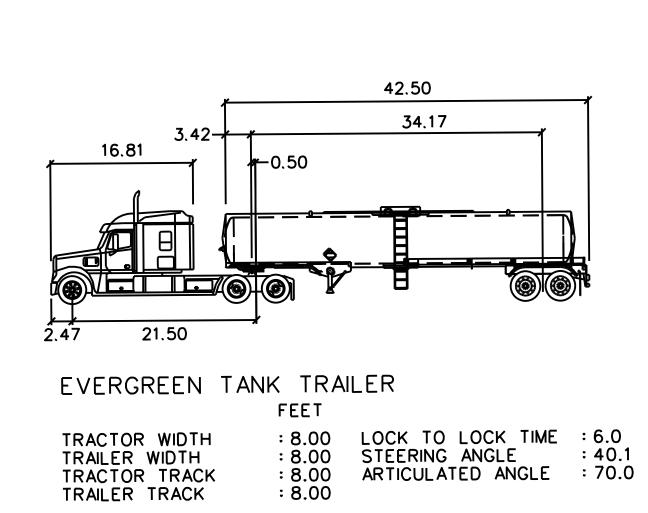
METI	ROLINK®
<b>Gannett Fleming</b>	SUBMITTED:PROJECT MANAGER

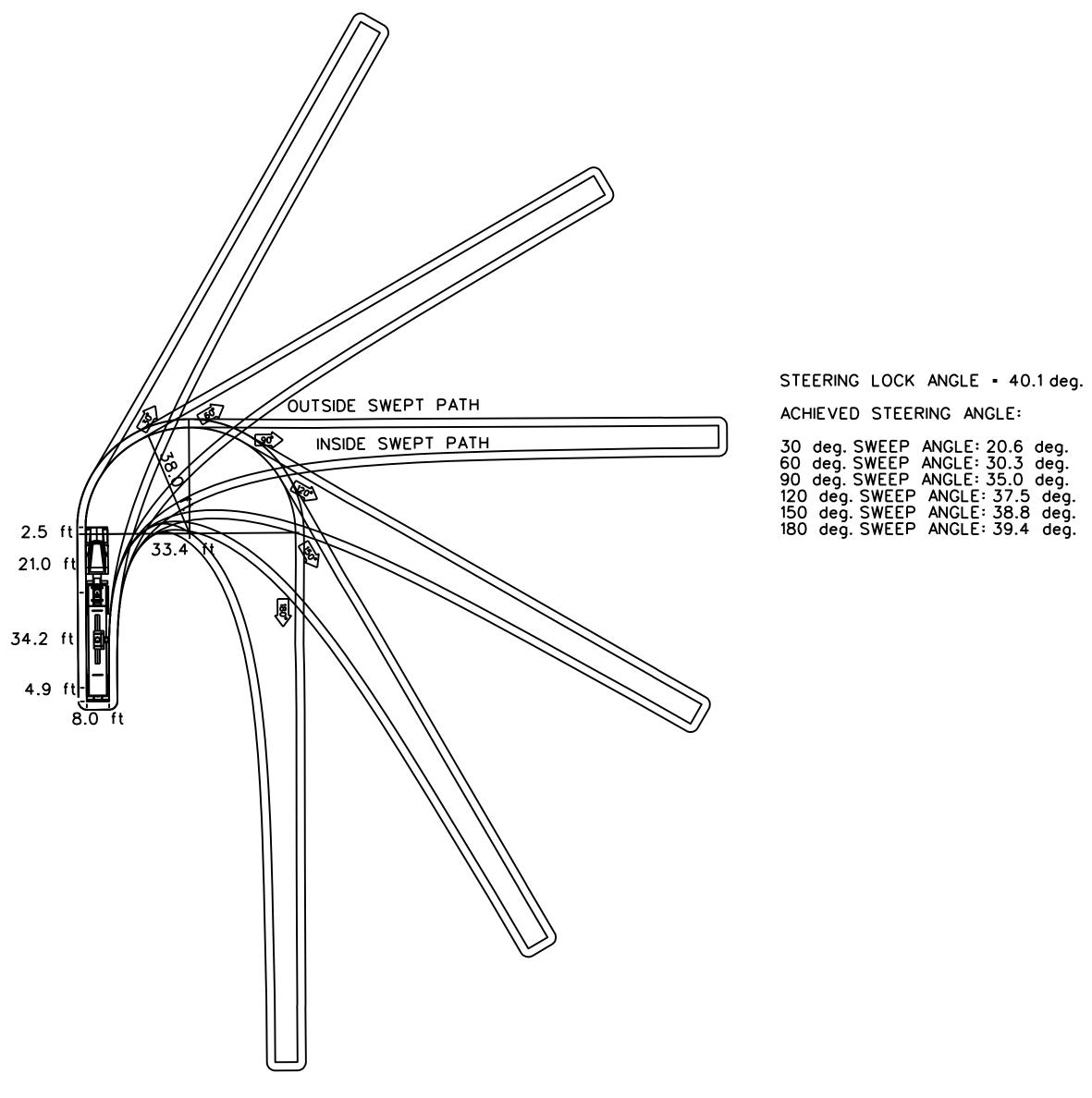
APPROVED:

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

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







SINGLE TAN	IKER T	RUCK
EVERGREEN	TANK	TRAILER

8.5 ft						
WR-						
WB-						
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INFORMATION CONFIDENT All plans, drawings, specifications, and or informatifurnished herewith shall remain the property of						
INFORMATION CONFIDENT All plans, drawings, specifications, and or informatifurnished herewith shall remain the property of the Southern California Regional Rail Authority and		TTAL - REVISION 3			4/11/22	3
INFORMATION CONFIDENT All plans, drawings, specifications, and or informatifurnished herewith shall remain the property of the Southern California Regional Rail Authority anshall be held confidentials and shall not be used fo		TTAL - REVISION 2	PERMIT	CONDITIONAL US	01/10/22	3 2
INFORMATION CONFIDENT All plans, drawings, specifications, and or informatifurnished herewith shall remain the property of		TTAL - REVISION 2 TTAL - REVISION 1	PERMIT PERMIT	CONDITIONAL US		

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





APPROVED:

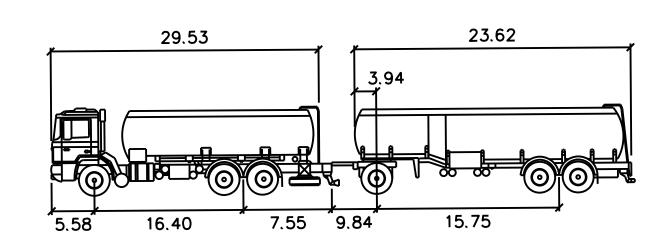
METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
GENERAL VEHICLE PROFILES
AND TURNING TEMPLATES

CASE NO. 00846471-PCPU
CONTRACT NO. C91143

DRAWING NO.
CUP-014

REVISION SHEET NO.
3 14

SCALE
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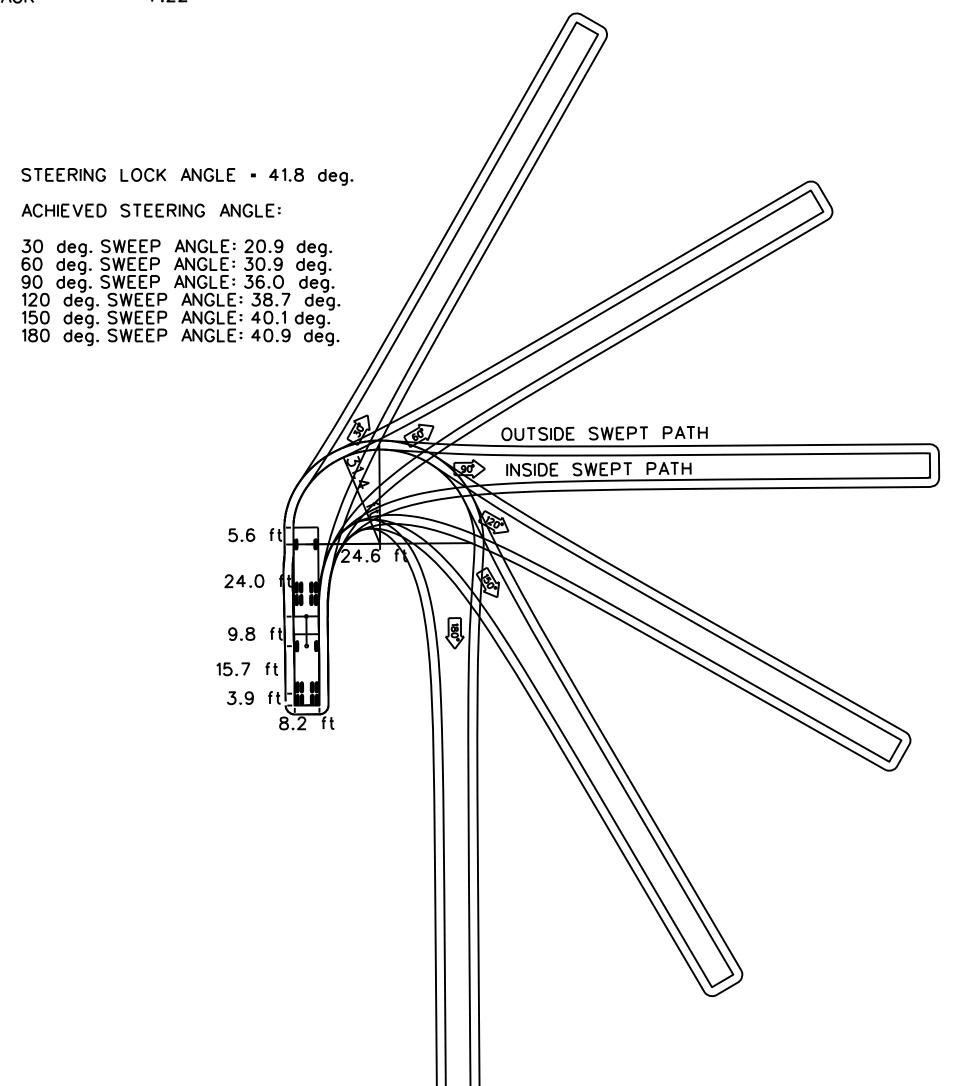
## AUTOBOTTE ARTICOLATO

FIRST UNIT WIDTH TRAILER WIDTH FIRST UNIT TRACK TRAILER TRACK

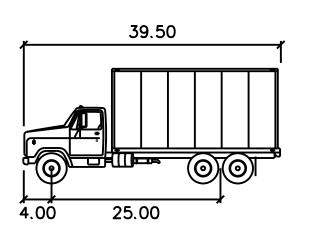
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: 8.20 LOCK TO LOCK TIME : 8.20 STEERING ANGLE : 7.22 ARTICULATING ANGLE : 7.22





DOUBLE TANKER TRUCK AUTOBOTTE ARTICOLATO (ITALY 2008)



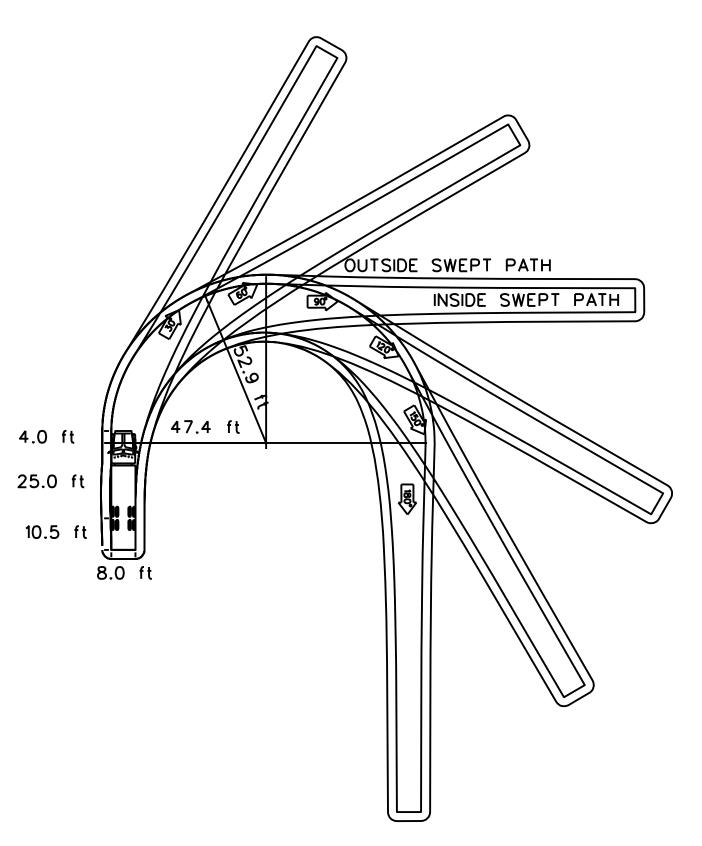
SU-40

		FEET
WIDTH TRACK LOCK TO STEERING	LOCK TIME ANGLE	: 8.00 : 8.00 : 6.0 : 31.8

STEERING LOCK ANGLE - 31.8 deg.

ACHIEVED STEERING ANGLE:

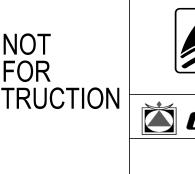
30 deg. SWEEP ANGLE: 19.1 deg. 60 deg. SWEEP ANGLE: 26.6 deg. 90 deg. SWEEP ANGLE: 29.6 deg. 120 deg. SWEEP ANGLE: 30.9 deg. 150 deg. SWEEP ANGLE: 31.5 deg. 180 deg. SWEEP ANGLE: 31.7 deg.



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2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			shall be held confidential; and shall not be used for	
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1			any purpose not provided	APPR
0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL			for in agreements with the Southern California Regional	DATE
REV.	DATE	BY	Y SUB. A	APP.	Rail Authority.	

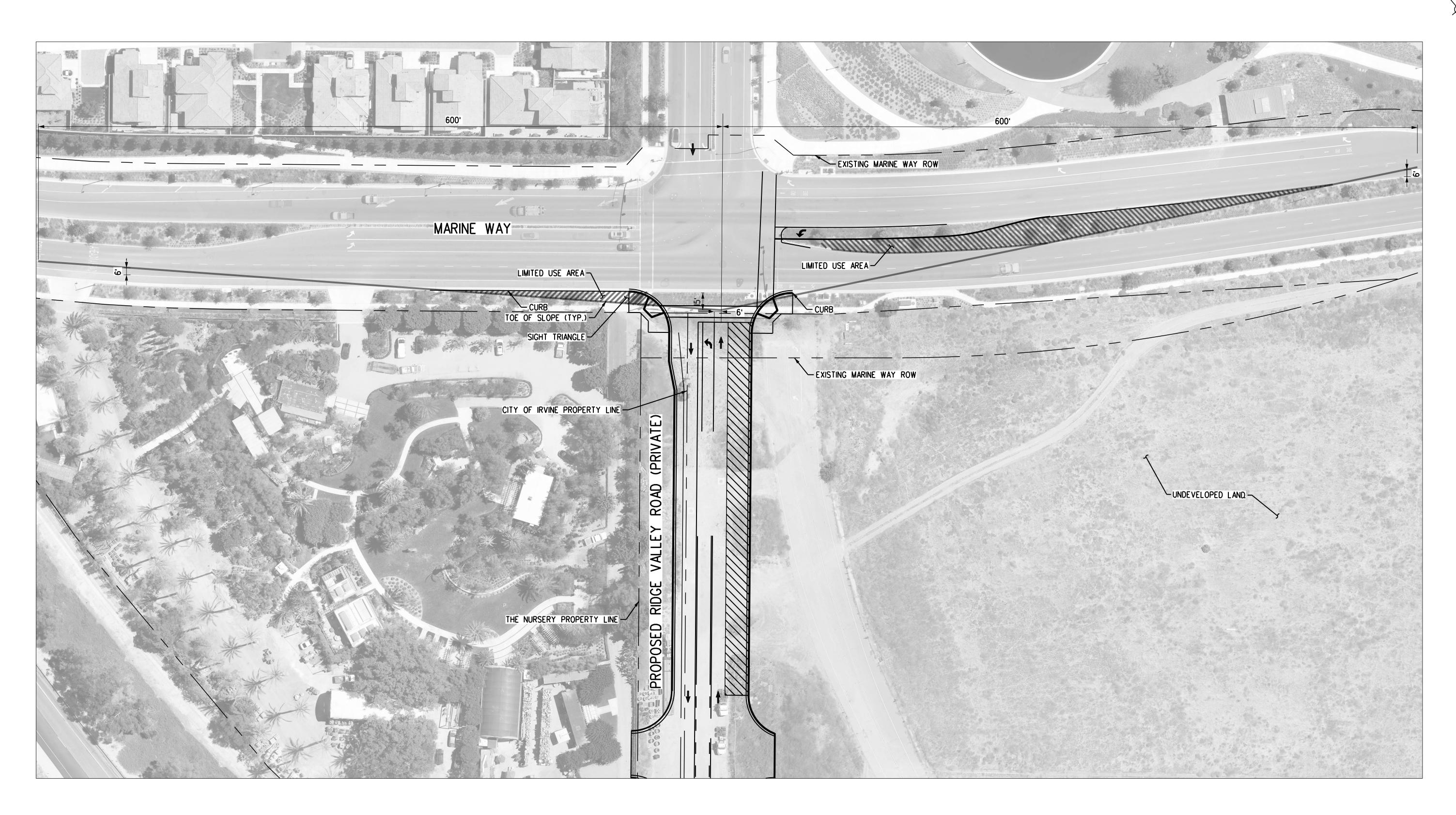
	DESIGNED BY D. SMITH	<u>.</u> :
N <sub>0</sub>	DRAWN BY P. NGUYEN	9
CONSTE	CHECKED BY  J. NEFF	
	APPROVED BY  M. FREEMAN	
	04/11/2022	l l



METI	ROLINK	
<b>Gannett Fleming</b>	SUBMITTED:PROJECT MANAGER	
	APPROVED:	

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

CASE NO.	00	846471-PCPU
CONTRACT	NO.	C91143
DRAWING N		P-015
REVISION	SHEET	NO.
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NOTE: SIGHT DISTANCE BASED ON CITY OF IRVINE STANDARD DETAIL 403.

40	Q	40	80
1''=40'			

4/11/22 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3	All plans, drawings, specications, and or informaturnished herewith shall remain the property of the Southern California Regional Rail Authority a	the D. SMITH  DRAWN BY  P. NGUYEN  CHECKED BY  The CHECKED BY	METROLINK
01/10/22 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2  10/13/21 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1  6/30/21 CONDITIONAL USE PERMIT SUBMITTAL  DATE	shall be held confidential and shall not be used for any purpose not provide for in agreements with Southern California Regressional Rail Authority.	APPROVED BY  M. FREEMAN	Gannett Fleming  SUBMITTED:

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
CIVIL
LINE OF SIGHT SHEET

CASE NO.	00846471-PCPU
CONTRACT	NO. <b>C91143</b>
DRAWING N	
	CUP-016
REVISION	SHEET NO.
3	16
SCALE	
	AS SHOWN

LAND USE SUMMARY							
EXISTING:	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%	NOMBER OF STORIES			
BUILDING HEIGHT		50 FT.	48 FT.	1			
<u>SETBACKS</u> :							
		ALLOWED	PROPOSED				
STREET		35 FT.	200 FT.				
BUILDING TO BUILDING		10 FT.	10 FT.				
SIDE		O FT.	57 FT.				
REAR		O FT.	37 FT.				
LANDSCAPING:							
		ALLOWED	PROPOSED	NUMBER_OF			
TOTAL SITE		15%	1% 1	PARKING LOT TREES			
PARKING LOT		12%	12%	13			

PARKING SUMMARY							
TYPE OF PROPOSED PA	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 SUM	MARY
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.

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

  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 AVOVE 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, ESCALTORS, OR OTHER INTERIOR CONSTRUCTION OR EQUIPMENT. OR EQUIPMENT.
- TOTAL AVAILABLE PARKING SPACES INCLUDE STANDARD PARKING, ADA ACCESSIBLE PARKING, CARPOOL PARKING, AND MOTORCYCLE PARKING.

$\frac{1}{5}$						INFORMATION CONFIDENTIAL:	DESIGNED BY
չ [						All plans, drawings, specifi-	
ر الار						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	DRAWN BY
<u> </u>	3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3				CHECKED BY
ō ĭ	2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2				
<u>ک</u> [	1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1				APPROVED BY
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	REV.	DATE		BY SUB.	APP.	Rail Authority.	

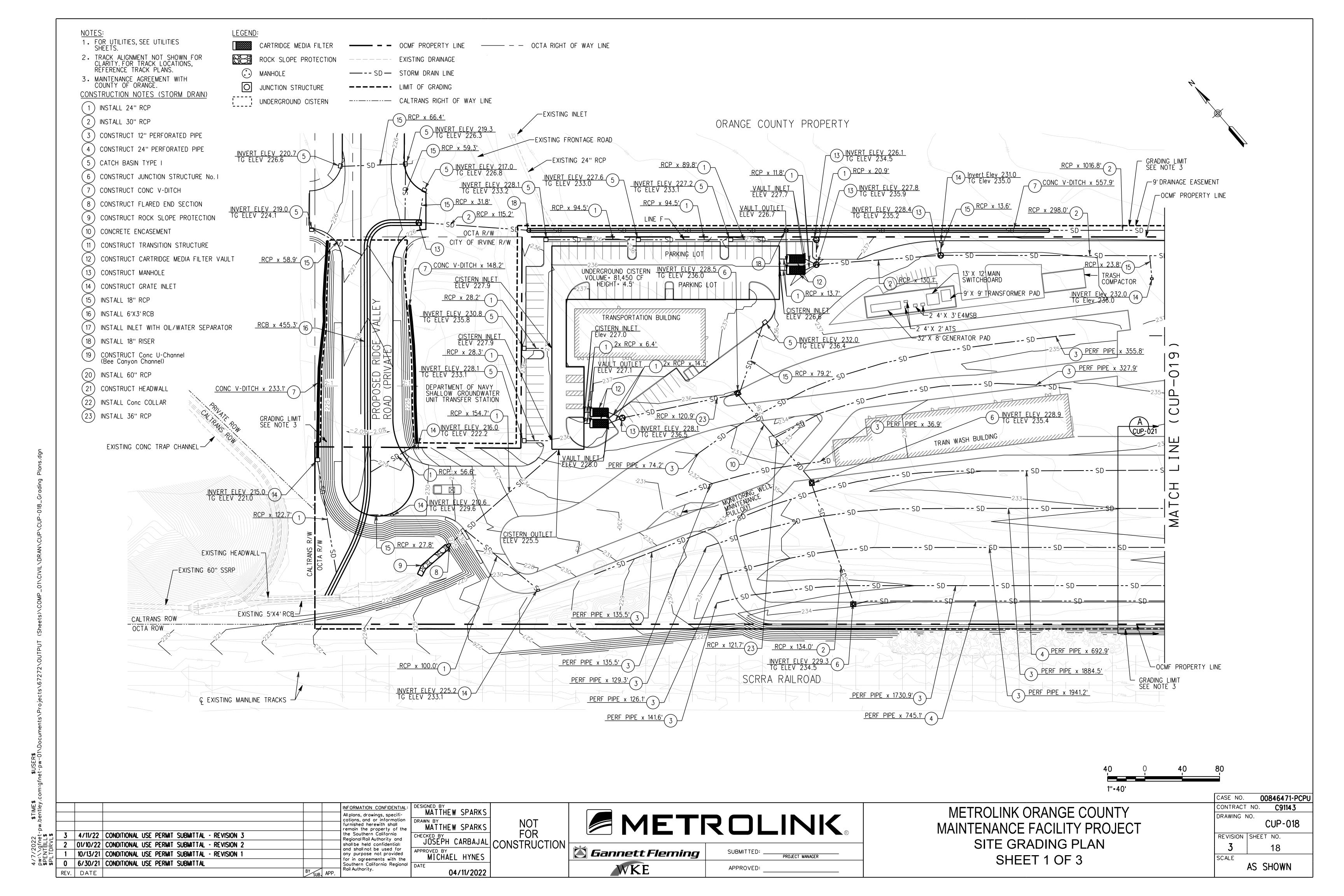
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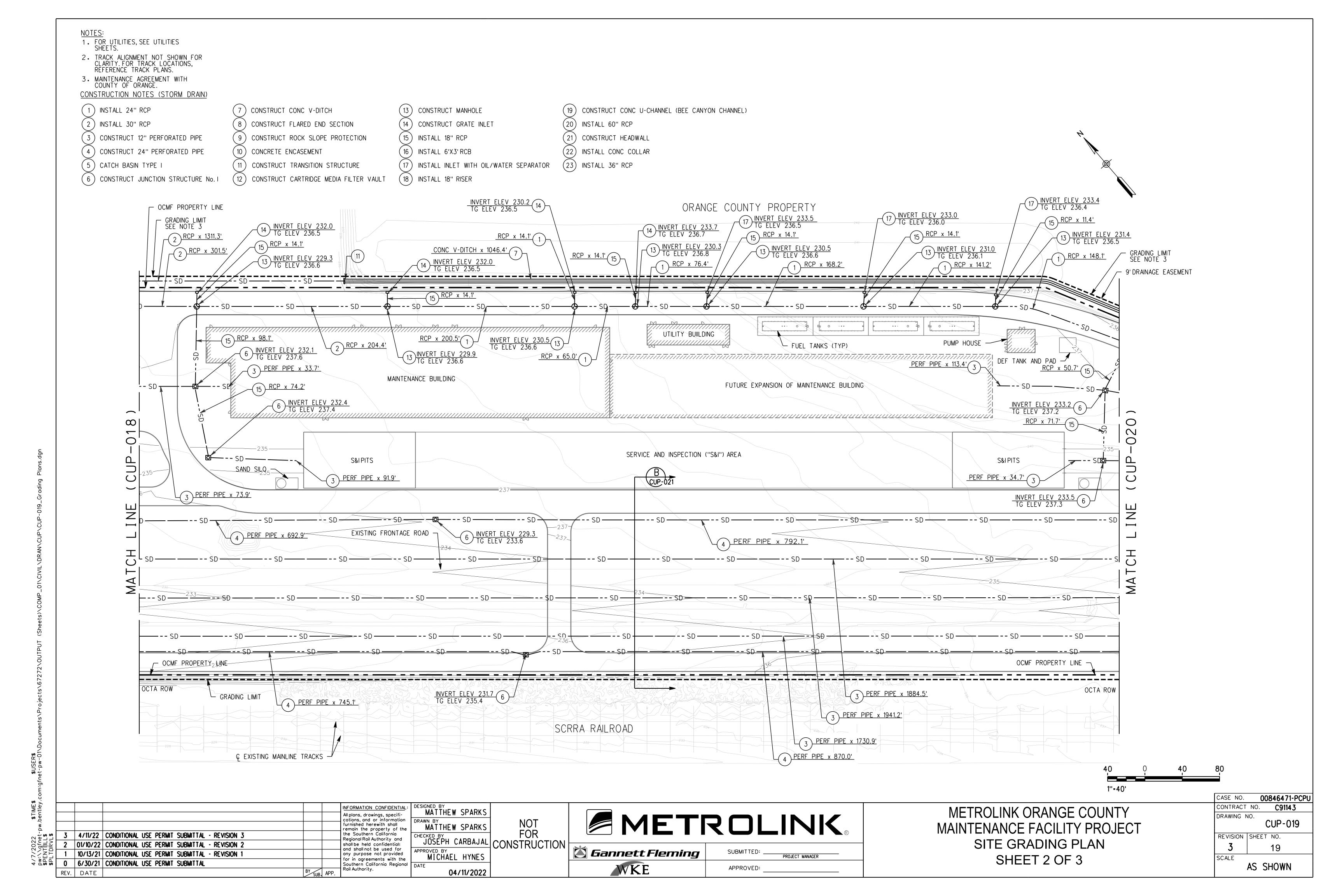


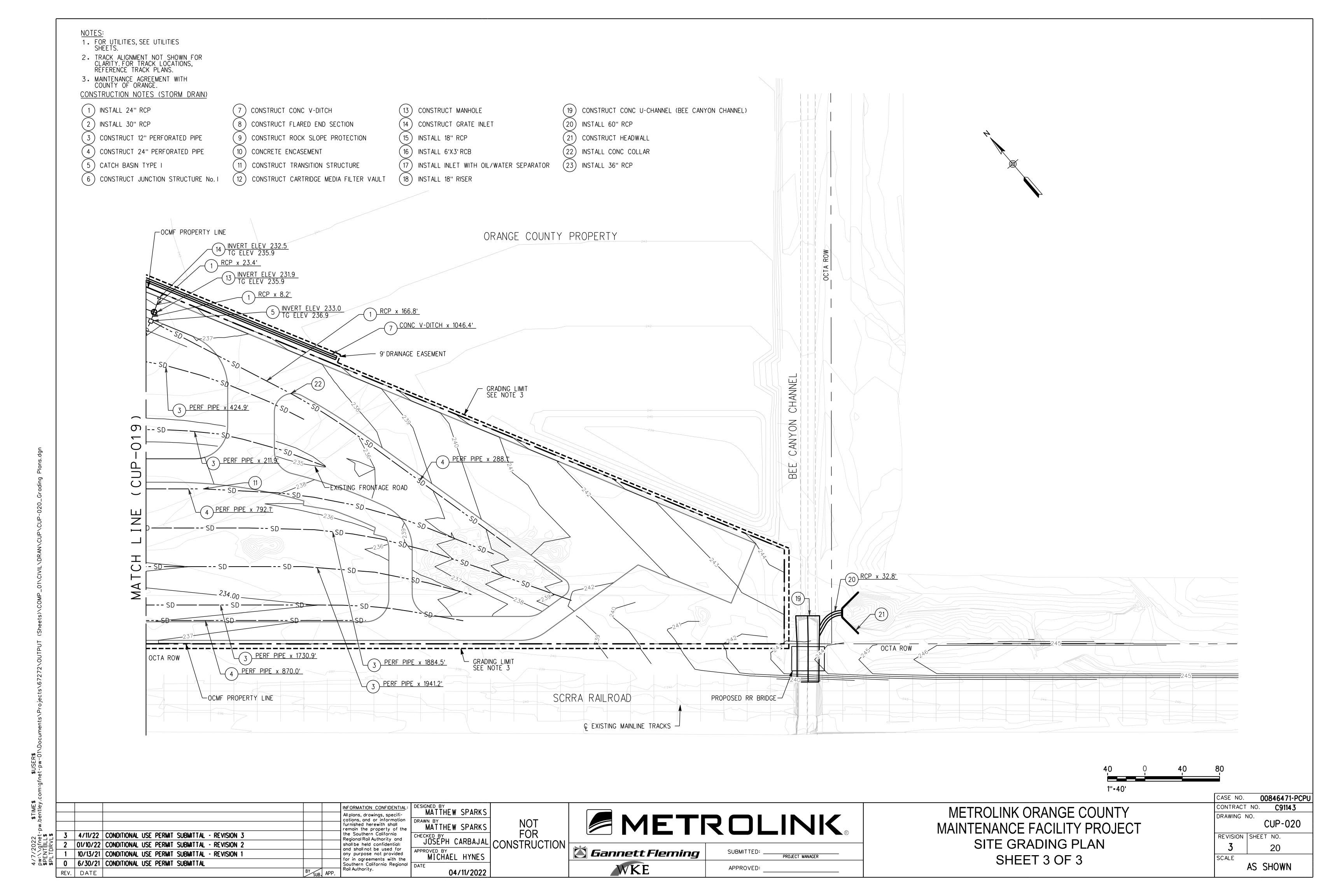


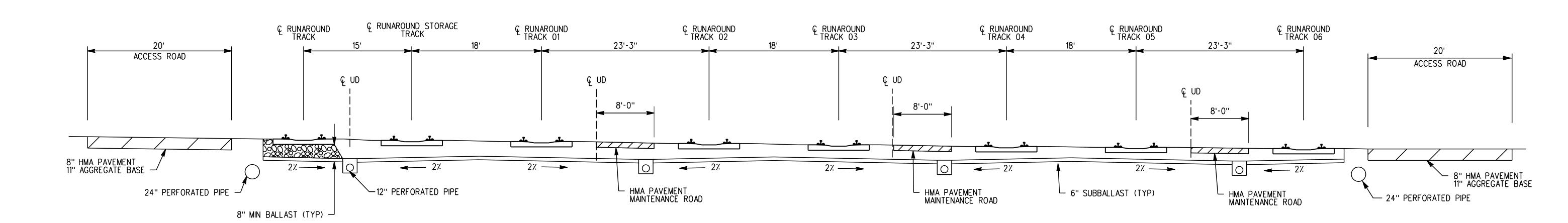
METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT PARKING SUMMARY TABLE

CASE NO.	008	846471-PCPU
CONTRACT	NO.	C91143
DRAWING N		<b>'-017</b>
REVISION	SHEET	NO.
3	1	7
SCALE	N	S

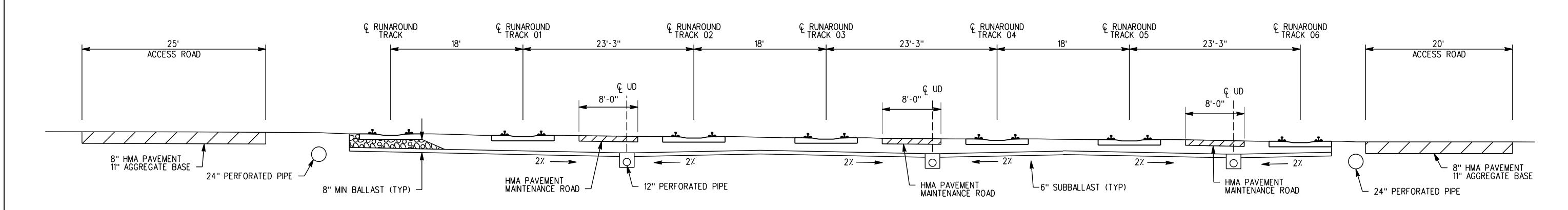








## SECTION A



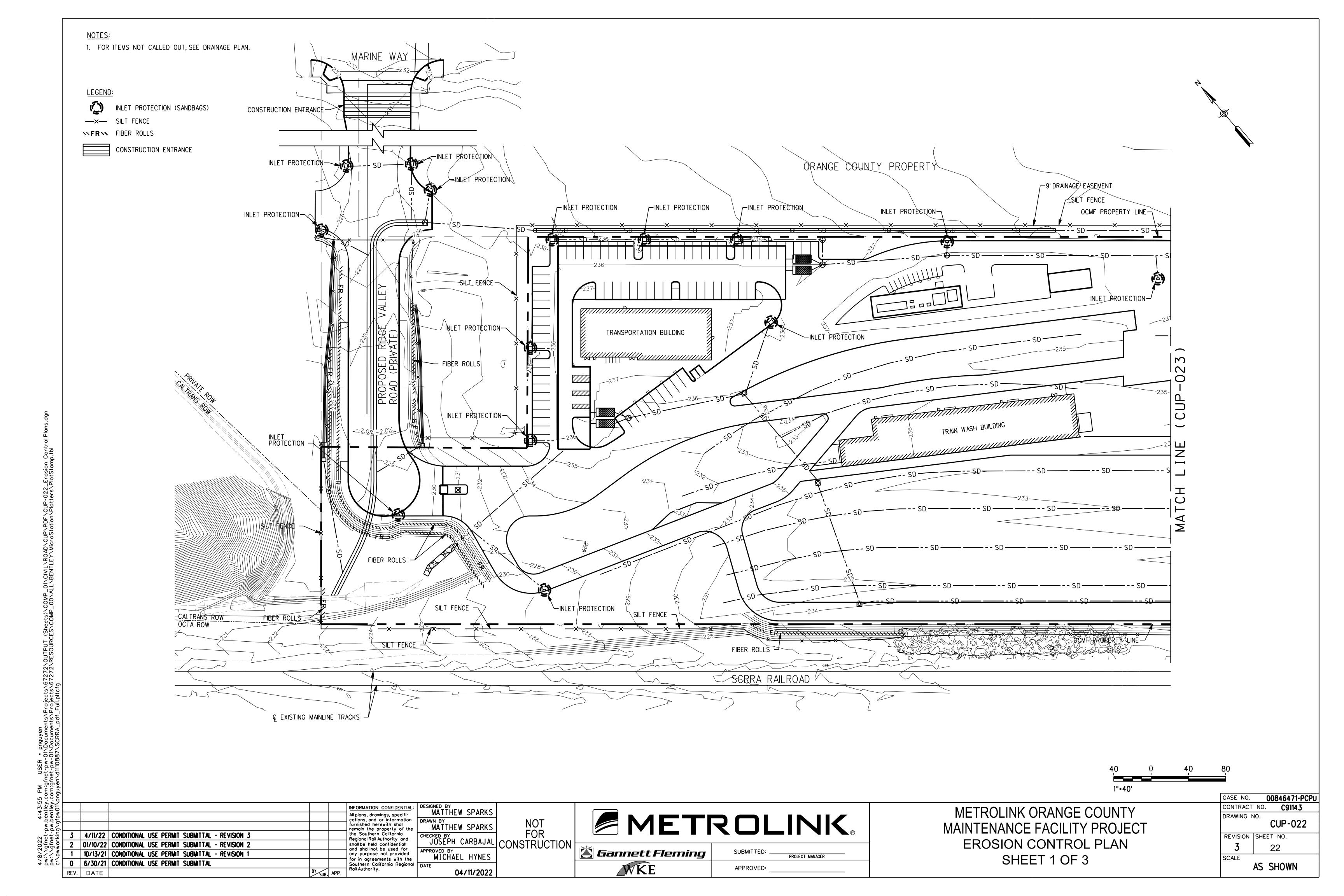
## SECTION B

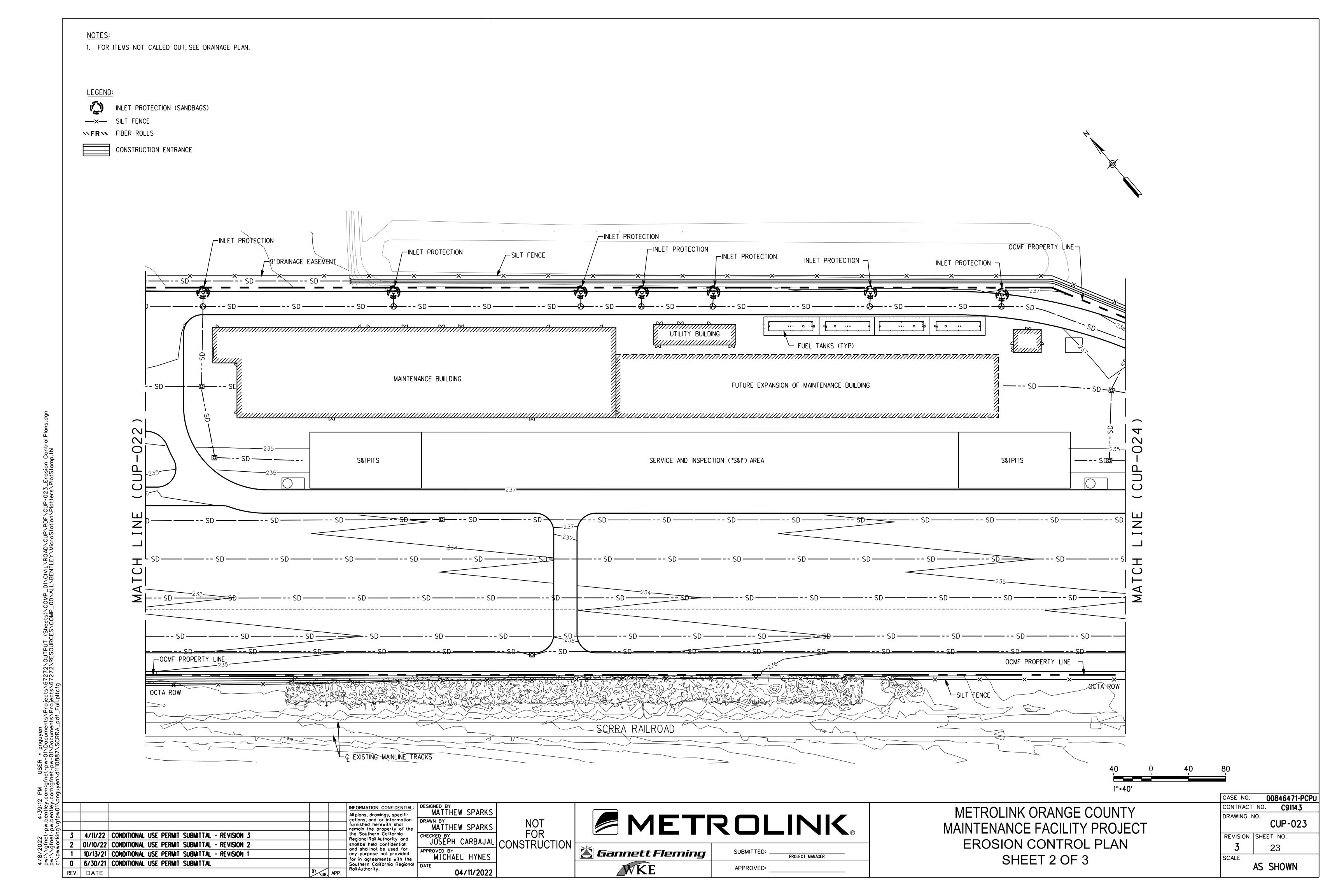
		CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3	INFORMATION CONFIDENTIAL  All plans, drawings, specifications, and or information furnished herewith shall remain the property of the the Southern California Regional Rail Authority and	DRAWN BY MATTHEW SPARKS CHECKED BY	NOT FOR	METF	ROLINIC	
	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2  CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1  CONDITIONAL USE PERMIT SUBMITTAL	shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regiona	APPROVED BY MICHAEL HYNES	CONSTRUCTION	<b>Gannett Fleming</b>	SUBMITTED:PROJECT MANAGER  APPROVED:	
RE	V. DATE		BY SUB. APP. Rail Authority.	04/11/2022		<b>∠</b> W K.E	APPROVED.	

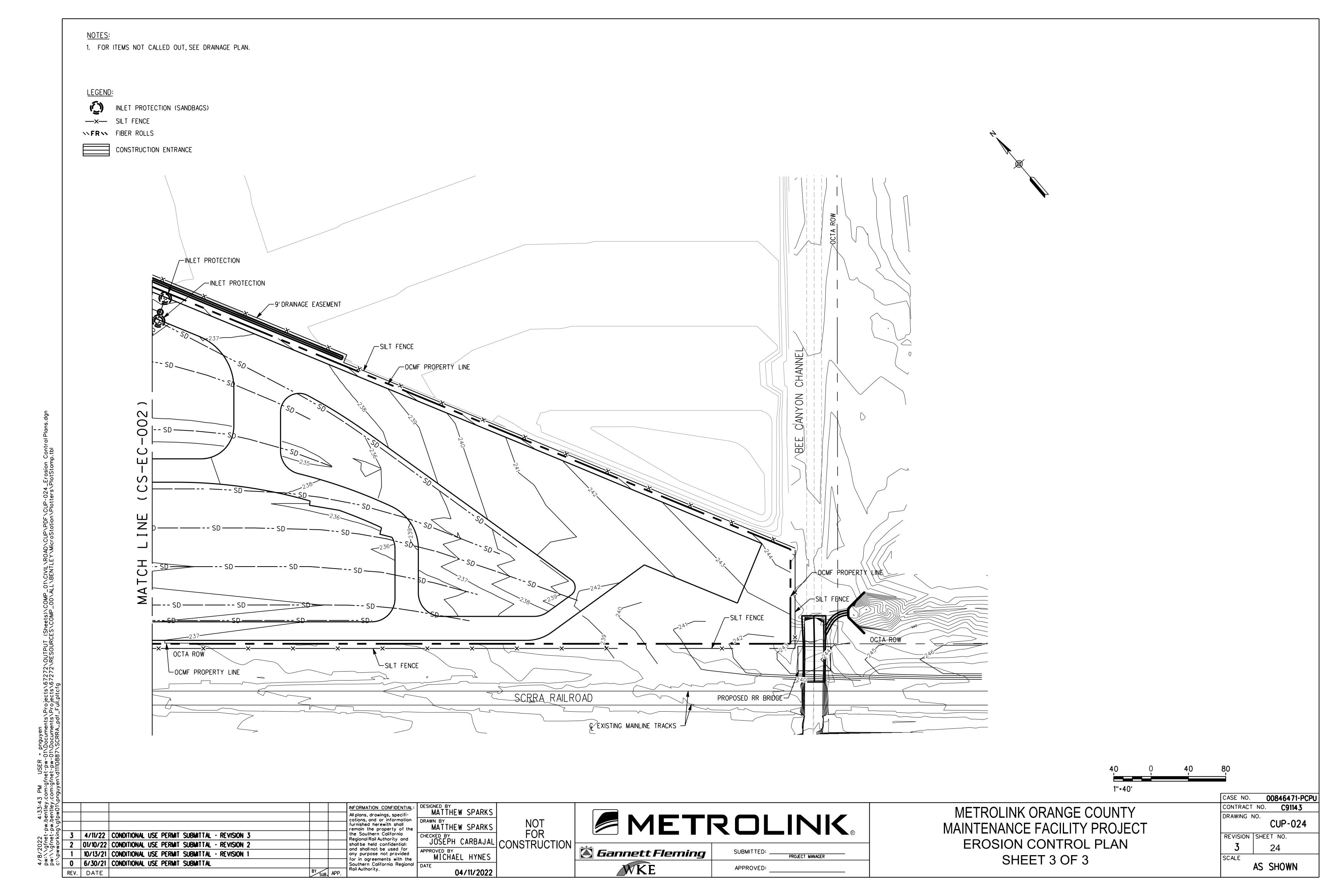
METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT TRACK CROSS SECTION

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

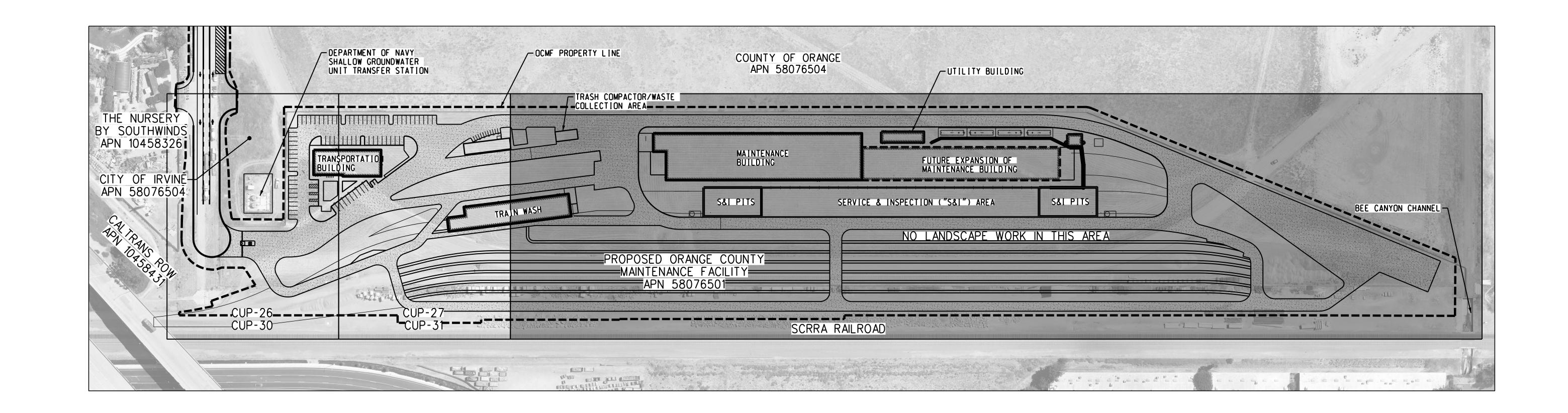
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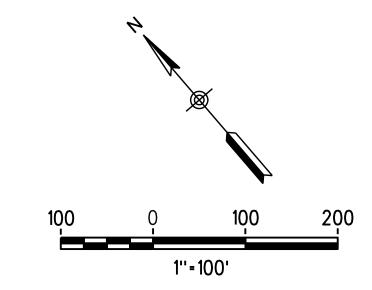






LEGEND PROJECT LIMITS





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Š	2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2		shall be held confidential; and shall not be used for	
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ပ် [	0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL		for in agreements with the Southern California Regional	D/
	REV.	DATE		BY SUB. APP.	Rail Authority.	

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

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<b>Gannett Fleming</b>	SUBMITTED:

APPROVED:

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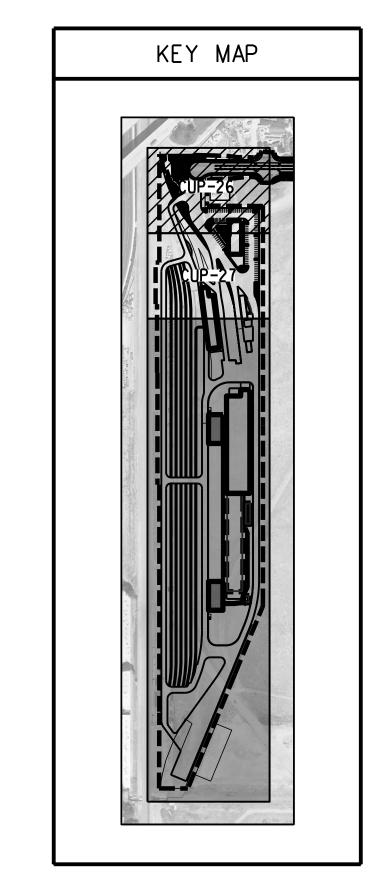
METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

LANDSCAPE AND IRRIGATION - KEY MAP

CASE NO.	00846471-PCPU
CONTRACT	NO. <b>C91143</b>
DRAWING N	CUP-25
REVISION	SHEET NO.
3	25
SCALE	HORIZ 1"-100'
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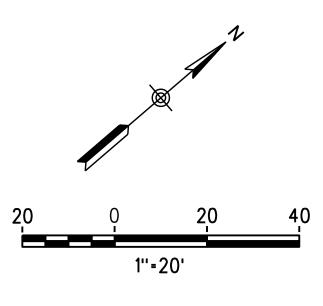
LEGEND
---- PROJECT LIMITS



NOTE:

SEE PLANTING NOTES AND LEGEND FOR TREES AND SHRUB SPECIES.

2. INSTALL 3/4" ROCK MULCH IN PLANTING AREAS AND AS INDICATED ON PLANS.



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

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04/11/2022

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SUBMITTED:

PROJECT MANAGER

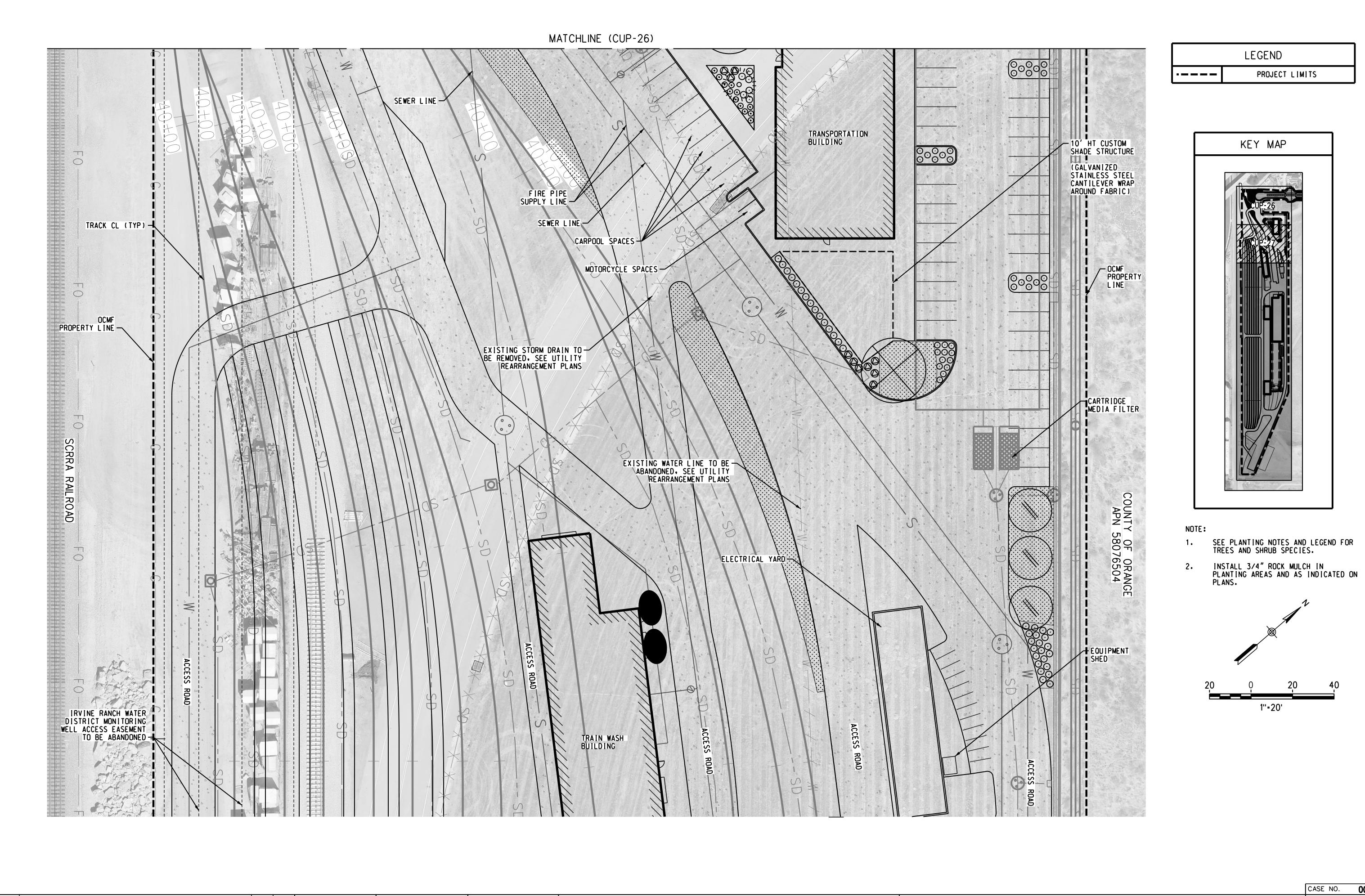
PROJECT MANAGER

APPROVED:

METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

LANDSCAPE PLANS 1

CASE NO.	00846471-PCPU
CONTRACT	NO. <b>C91143</b>
DRAWING N	CUP-26
REVISION	SHEET NO.
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SCALE	HORIZ 1"-20'



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REV. DATE

0 6/30/21 CONDITIONAL USE PERMIT SUBMITTAL

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DESIGNED BY J. AUSTIN S. BOUP., D. FEE CHECKED BY 04/11/2022

NOT FOR A. CARDENAS CONSTRUCTION



APPROVED:

**AECOM** 

METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

LANDSCAPE PLANS 2

CASE NO.	00	846471-PCPU
CONTRACT	NO.	C91143
DRAWING N	١٥.	
	CUF	P-27
REVISION	SHEET	NO.
3	2	7
SCALE		
	HORIZ	7 1'' <b>-</b> 20'

LEGEND

KEY MAP

PROJECT LIMITS

### 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. × WT.	SPACING	WUCOLS	DETAILS
	PARKINSONIA × 'DESERT MUSEUM'	DESERT MUSEUM PALO VERDE	24" BOX	20' × 20'	AS SHOWN	VERY LOW	CUP-29; DETAIL 4
	QUERCUS ILEX	HOLLY OAK	24" BOX	50' × 50'	AS SHOWN	LOW	CUP-29; DETAIL 4
	SEARSIA LANCEA	AFRICAN SUMAC	24" BOX	25′ × 30′	AS SHOWN	LOW	CUP-29; DETAIL 4

## GROUNDCOVER AND SHRUB LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SIZE HT. × WT.	SPACING	WUCOLS	DETAIL
€	AGAVE ATTENUATA 'BLUE FLAME'	FOX TAIL	5 GALLON	2' × 2'-5"	AS SHOWN	LOW	CUP-29; DETAILS 1, 2
	BACCHARIS PILULARIS 'PIGEON POINT'	COYOTE BUSH	5 GALLON	8"-24" × SPREADING	6' O.C.	LOW	CUP-29; DETAILS 1, 2
•	HESPERALOE PARVIFLORA	RED YUCCA	5 GALLON	3'-4' × 5'	AS SHOWN	VERY LOW	CUP-29; DETAILS 1, 2
0	MUHLENBERGIA RIGENS	DEER GRASS	5 GALLON	4' × 4'	AS SHOWN	LOW	CUP-29; DETAILS 1, 2
·	SALVIA CLEVELANDII 'WINNIFRED GILLMAN'	WINNIFRED GILLMAN BLUE SAGE	5 GALLON	3' × 3'	AS SHOWN	VERY LOW	CUP-29; DETAILS 1, 2
$\odot$	SALVIA MELLIFERA	BLACK SAGE	5 GALLON	3'-6' × 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 GLYSOPHATE 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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DESIGNED BY

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of the CHECKED BY

A. CARDENAS

APPROVED BY

DATE

04/11/2022

J. AUSTIN
BOUP., D. FEE
A. CARDENAS
CONSTRUCTION



APPROVED:

**AECOM** 

METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

LANDSCAPE NOTES AND LEGEND

CASE NO. 00846471-PCPU
CONTRACT NO. C91143
DRAWING NO.
CUP-28
REVISION SHEET NO.
3 28
SCALE
NO SCALE

SCALE: N.T.S.

<u>LEGEND:</u>

- (1) SHRUB CENTER IN PIT
- (2) 2" DEEP WATERING BASIN
- (3) FINISH GRADE
- (4) AMENDED BACKFILL PURSUANT TO SOILS REPORT
- (5) PLANTING TABLETS PER SPECIFICATIONS. PLACE in pit 2/3 up from pit bottom.
- (6) SCARIFY SIDES AND BOTTOM OF PLANTING PIT.
- 7 TRANSITION ZONE OF COMPACTED AND UNAMENDED NATIVE SOIL.
- 8 SET TOP OF ROOTBALL 1/2" ABOVE SURROUNDING GRADE AND SLOPE FOR DRAINAGE.
- (9) MULCH PER SPECIFICATIONS.

1% SLOPE

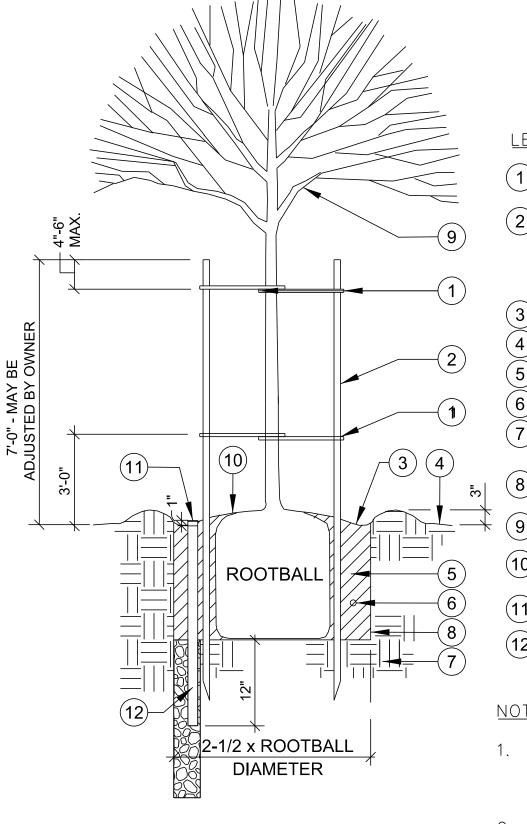
PROVIDE 2-INCH LAYER OF APPROVED MULCH AT PLANT BASINS. MULCH TO BE 6-INCHES AWAY FROM THE SHRUB STEM

SHRUB PLANTING

ROOTBALL

TWICE ROOTBALL DIAMETER

SCALE: N.T.S.



LEGEND:

NOTES:

## LEGEND:

OTHER AS SHOWN ON PLANTING PLAN / PLANTING LEGEND.

WHERE TRIANGULAR SPACING MEETS WALKWAY AT END

SURFACE OF PAVING, WALK, MOWSTRIP OR METAL EDGING.

2. PLANTING BED TO BE TILLED TO DEPTH OF 10-12 INCHES.

SHRUB AND GROUNDCOVER PLANTING

2) EDGE OF PAVING, CURB, BUILDING, HEADER, ETC.

ADD A PLANT TO SQUARE OFF THE END.

STANDARD PLAN NO. 609.

- (1) TWIST BRACE. NAIL BRACKET STYLE W/ GALVANIZED THREADED NAILS (4 TYP.)
- (2) LODGE POLE PINE STAKE (2 TYP.) 3" LODGE POLE FOR 48" BOX TREE 2" LODGE POLE FOR 15 GAL - 36" BOX TREE. KEEP CLEAR OF ROOTBALL.
- (3) WATER BASIN.
- (4) FINISH GRADE.
- (5) AMENDED BACKFILL.
- (6) PLANT TABLET.
- (7) TRANSITIONAL ZONE OF NATIVE SOIL -COMPACTED AND UNAMENDED.
- SCARIFY SIDES AND BOTTOM OF PLANTING PIT.
- 9 TREE CENTER IN PIT.
  - SET TOP OF ROOTBALL 3" ABOVE SURROUNDING GRADE AND SLOPE FOR DRAINAGE.
  - (11) 3" BLACK DRAIN SLIP CAP

SUB. APP.

3" PERFORATED PVC PIPE WITH "SOCK" FILTER FABRIC. REQUIRED WITH 24" BOX AND LARGER TREES AS SPECIFIED.

- 1. PROVIDE 3-INCH LAYER OF APPROVED MULCH AT PLANT BASINS. MULCH TO BE 6-INCHES AWAY FROM TREE TRUNK.
- 2. TOP OF STAKE SHALL BE A MINIMUM OF 4" CLEAR FROM THE LOWEST BRANCH
- 3. INSTALL ROOT BARRIER FOR TREES LOCATED WITHIN 5' OF PAVING EDGE, SEE MATERIAL LEGEND.



1. INSTALL ROOT BARRIER FOR TREES LOCATED WITHIN 5' OF PAVING EDGE, SEE MATERIAL LEGEND.

MULTI-TRUNK TREE PLANTING-STAKING

- GUY STRAP

NOT TIGHT

- FINISH GRADE

HOSES ON EACH MAJOR STEM. GUY

WIRE ALL MAJOR STEMS TOGETHER. CUT HOSES TO EXTEND 2" PAST

STOUT BRANCH OR A MIN OF

1/3 OF TREE HEIGHT.

TREE STAY - SNUG FIT,

TREE STAKE - 2 PER TREE, REFER TO SPEC

— 2-3" LAYER OF MULCH, 1"

- PLANTING PIT, SCARIFY

-ROOT BALL, LOOSEN ROOT

SIDES AND BOTTOM.

UNDISTRUBED OR

--- WIDTH AS PER SPECS

COMPACTED SUBGRADE

AT ROOT BALL, REFER TO SPEC

PLANT PIT IN PLANT BEDS ONLY.

- AMENDED BACKFILL, REFER TO SPEC

HAIRS BY LIGHTLY SCARIFYING SIDES.

- UNAMENDED BACKFILL, REFER TO SPEC

SCALE: N.T.S.

3" WATERING BASIN AROUND

TREE TRUNK. SECURE ABOVE LOWEST

LEGEND:

(3) CURB OR PAVING (WHERE APPLICABLE)

MATERIAL LEGEND

(1) 3/4" DIA. ROCK MULCH - SEE

1. PROVIDE A 2" CLEARANCE AT STEM / TRUNK OF ALL PLANTS (TREES, SHRUBS AND GROUNDCOVER)

2 NATIVE SOIL

3/4" ROCK MULCH

SCALE: N.T.S.

TREE PLANTING

<u>PLAN VIEW:</u>

PREVAILING WIND

SCALE: N.T.S.

# METROI INK

<b>Example 1 Gannett Fleming</b>	SUBMITTED:PROJECT MANAGER
A=COM	APPROVED:

METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

LANDSCAPE DETAILS

CASE NO. 00846471-PCPU CONTRACT NO. C91143 DRAWING NO. **CUP-29** REVISION SHEET NO. 29 SCALE NO SCALE

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REV. DATE

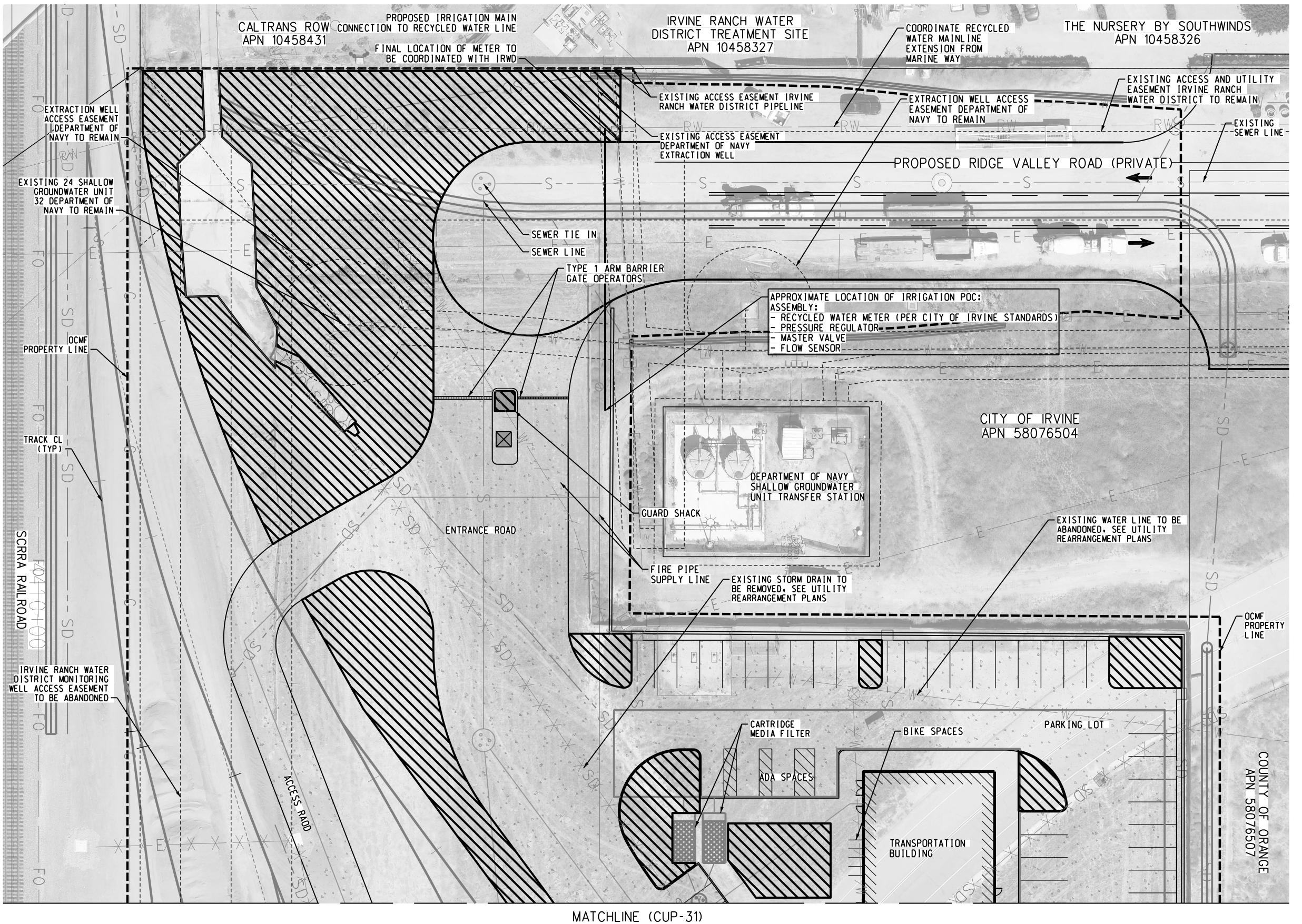
All plans, drawings, specifi-3 4/11/22 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3 the Southern California Regional Rail Authority and 2 01/10/22 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2 shall be held confidential; and shall not be used for 10/13/21 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1 any purpose not provided for in agreements with the 0 | 6/30/21 | CONDITIONAL USE PERMIT SUBMITTAL Southern California Regional DATE Rail Authority.

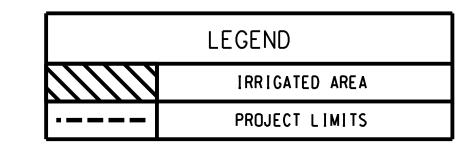
J. AUSTIN S. BOUP., D. FEE CHECKED BY A. CARDENAS CONSTRUCTION

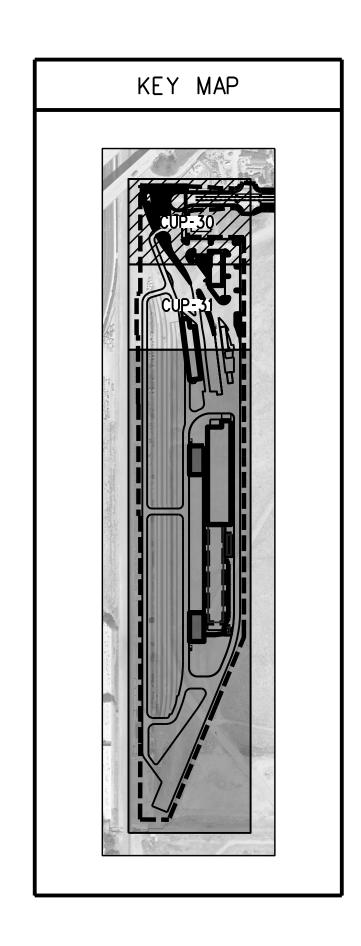
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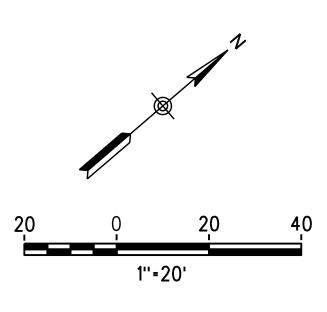
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DESIGNATION CONFIDENTIAL:

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REV. DATE

J. AUSTIN

DRAWN BY
S. BOUP., D. FEE
CHECKED BY
A. CARDENAS
APPROVED BY
-DATE

04/11/2022

METI	ROLINK	$^{ ext{ ext{ ext{ ext{ ext{ ext{ ext{ ext$
<b>E</b> Gannett Fleming	SUBMITTED:PROJECT MANAGER	

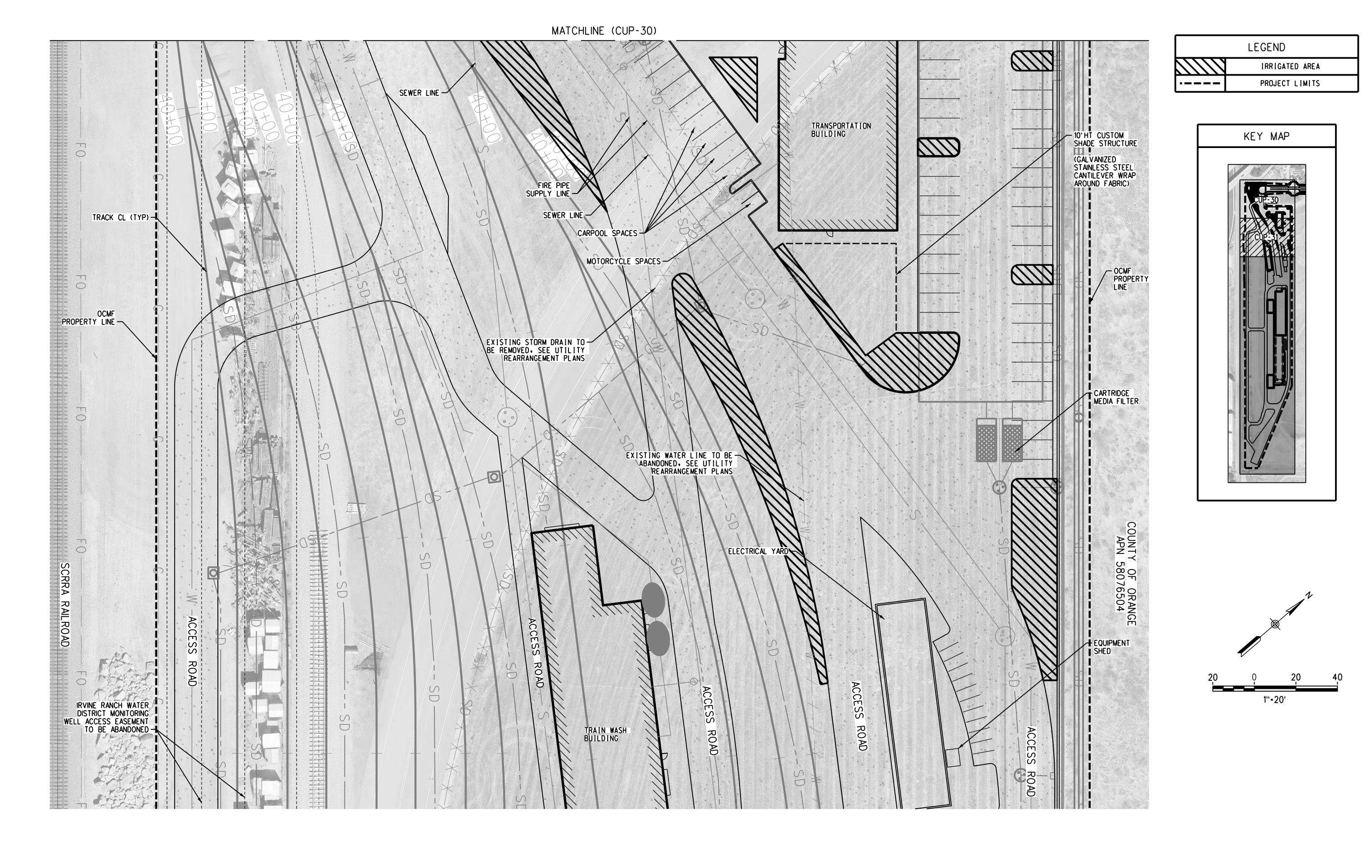
APPROVED:

**AECOM** 

METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

**IRRIGATION PLANS 1** 

CASE NO.	00846471-PCPU
CONTRACT	NO. <b>C91143</b>
DRAWING N	
	CUP-30
REVISION	SHEET NO.
3	30
SCALE	
	HORIZ 1"-20"



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DESIGNED BY

J. AUSTIN

DRAWN BY

S. BOUP., D. FEE

CHECKED BY

A. CARDENAS

APPROVED BY

DATE

DATE

NOT FOR CONSTRUCTION



APPROVED:

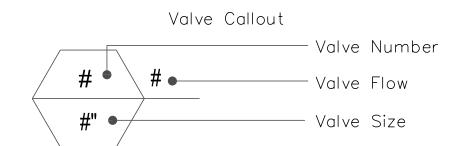
**AECOM** 

METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

IRRIGATION PLANS 2

CASE NO.	00846471-PCPU
CONTRACT	NO. <b>C91143</b>
DRAWING N	
	CUP-31
REVISION	SHEET NO.
3	31
SCALE	HORIZ 1"-20"
	CONTRACT DRAWING N REVISION 3

SYMBOL	ITEM	MANUFACTURER / MODEL / DESCRIPTION	DETAIL
N/A	CONTROLLER	24 STATION COMMERCIAL CONTROLLER. STAINLESS STEEL PEDESTAL. FLOW SENSING. ESP12LXMEF-LXMMSS-LXMMSSPED 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 XCZ-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.	
N/A	DRIP FLUSH VALVE	RAIN BIRD MDCFCAP 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): 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

 $EAWU = 48.2 \times 0.3(KL) \times 30,960 (SQ. FT.) \times .62 / 0.81(IE) = GALLONS PER YEAR EAWU = 342,670 GALLONS/YEAR$ 

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 SEVICE CALL (949) 453-5300.
PLAN CHECK NO
ONSITE APPROVAL DATE

## IRVINE RANCH WATER DISTRICT RECYCLED AND POTABLE WATER NOTES:

- 1. THE INSTALLATION OF THE IRRIGATION WATER SYSTEM SHALL CONFORM TO THE REGULATIONS FOR THE CONSTRUCTION OF IRRIGATION WATER SYSTEMS WITHIN THE IRVINE RANCH WATER DISTRICT (IRWD) AND THE ACCOMPANYING PLANS AND SPECIFICATIONS.
- 2. ALL ONSITE RECYCLED AND POTABLE WATER PIPING INSTALLED ON THIS PROJECT SHALL BE IDENTIFIED IN ACCORDANCE WITH IRWD'S REGULATIONS AND THE IRRIGATION SPECIFICATIONS.
- 3. RECYCLED WATER PIPING SHALL BE PURPLE PVC MANUFACTURED FOR RECYCLED (RECLAIMED) WATER SYSTEMS.
- 4. MARKING ON THE PURPLE PVC SHALL INCLUDE THE FOLLOWING:
- 5. CAUTION RECYCLED (OR RECLAIMED) WATER; NOMINAL PIPE SIZE; PVC-1120 PRESSURE RATING IN POUNDS PER SQUARE INCH AT 73 DEGREES; ASTM DESIGNATIONS SUCH AS 1785, 2241, 2672, 3139. PRINTING SHALL BE PLACED CONTINUOUSLY ON TWO SIDES OF THE PIPE.
- 6. ALL RECYCLED WATER SPRINKLER BOX COVERS AND CONTROL VALVES, ISOLATION VALVES, QUICK COUPLERS, AND ALL APPURTENANCES SHALL BE TAGGED WITH IDENTIFICATION TAGS.
- 7. TAGS SHALL BE WEATHERPROOF PLASTIC, 3" X 4", PURPLE IN COLOR WITH THE WORDS "WARNING RECYCLED (OR RECLAIMED)
- 8. WATER DO NOT DRINK" IMPRINTED ON ONE SIDE AND "AVISA IMPURA TO TOMAR" ON THE OTHER SIDE. IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR USE TAGS AS MANUFACTURED BY T. CHRISTY ENTERPRISES OR APPROVED EQUAL.
- 9. ONE TAG SHALL BE ATTACHED TO EACH APPURTENANCE AS FOLLOWS, OR;
- 10. IDENTIFICATION SHALL BE AFFIXED TO EACH IRRIGATION VALVE LID OR COVER AND VALVE AS FOLLOWS:
- (a) IDENTIFY VALVE COVER WITH LABEL OR BRANDED HOT STAMP THAT READS "RECYCLED (OR RECLAIMED) WATER DO NOT DRINK" OR USE PURPLE COVER WITH SAME IDENTIFICATION.
- (b) ATTACH TAG TO CONTROL VALVE STEM DIRECTLY OR WITH PLASTIC TIE-WRAP. OR (c) ATTACH TAG TO CONTROL VALVE SOLENOID WIRE DIRECTLY OR WITH PLASTIC TIE-WRAP.
- (d) ATTACH TO BODY OF THE RELATIVE APPURTENANCE WITH PLASTIC TIE-WRAP.
- 11. WARNING TAPES SHALL BE USED ON ALL CONSTANT PRESSURE MAIN LINE PIPING CARRYING POTABLE WATER.
- 12. WARNING TAPE SHALL BE A MINIMUM OF 3-INCHES WIDE AND SHALL RUN CONTINUOUSLY FORT THE ENTIRE LENGTH OF ALL CONSTANT PRESSURE MAIN LINE PIPING. THE TAPE SHALL BE ATTACHED TO THE TOP OF THE PIPE WITH PLASTIC TAPE BANDED AROUND THE WARNING TAPE AND THE PIPE EVERY 5 FEET ON CENTER.
- 13. WARNING TAPE FOR THE CONSTANT PRESSURE POTABLE WATER PIPING SHALL BE BLUE IN COLOR WITH THE WORDS "CAUTION BURIED WATER BELOW" IMPRINTED IN MINIMUM 1-INCH HIGH LETTERS BLACK IN COLOR. IMPRINTING SHALL BE CONTINUOUS AND PERMANENT.
- 14. IRWD SHALL BE NOTIFIED TWO (2) DAYS PRIOR TO THE START OF IRRIGATION CONSTRUCTION AT (949) 453-5300 AND EACH WORK DAY THEREAFTER UNTIL COMPLETION OF PROJECT.
- 15. ALL PRESSURE MAIN LINE PIPING FROM THE RECYCLED WATER SYSTEM SHALL BE INSTALLED TO MAINTAIN 10 FEET MINIMUM HORIZONTAL SEPARATION FROM ALL POTABLE WATER PIPING. WHERE RECYCLED WATER AND POTABLE WATER PRESSURE MAIN LINE PIPING CROSS, THE RECYCLED WATER PIPING SHALL BE INSTALLED BELOW THE POTABLE WATER WATER PIPING IN A CLASS 200 PURPLE PVC SLEEVE WHICH EXTENDS A MINIMUM OF 5 FEET ON EITHER SIDE OF THE POTABLE WATER PIPING. PROVIDE A MINIMUM VERTICAL CLEARANCE OF 6-INCHES. CONVENTIONAL (WHITE) PIPE MAY BE USED FOR SLEEVING MATERIAL IF IT IS TAPED WITH 3-INCH WIDE PURPLE WARNING TAPE WHICH READS "CAUTION RECYCLED (OR RECLAIMED) WATER".
- 16. THE IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE BETWEEN THE HOURS OF 9:00 PM AND 6:00 AM UNLESS OTHERWISE DIRECTED BY THE DISTRICT ENGINEER.
- 17. ALL NEW COMMON AREAS WHERE RECYCLED WATER IS USED AND THAT ARE ACCESSIBLE TO THE GENERAL PUBLIC SHALL BE POSTED WITH CONSPICUOUS SIGNS THAT INCLUDE THE FOLLOWING WORDING IN A SIZE NO LESS THAN 4 INCHES HIGH BY 8 INCHES WIDE: "RECYCLED WATER DO NOT DRINK" OR "RECLAIMED WATER DO NOT DRINK". EACH SIGN SHALL ALSO DISPLAY AN INTERNATIONAL SYMBOL CONVEYING THE SAME WARNING.
- 18. ADJUST SPRAY HEADS TO ELIMINATE OVERSPRAY ONTO AREAS NOT UNDER THE CONTROL OF THE CUSTOMER. FOR EXAMPLE, POOL DECKS, PRIVATE PATIOS, STREETS, AND SIDEWALKS.

## IRVINE RANCH WATER DISTRICT RECYCLED AND POTABLE WATER NOTES CON'T:

- 19. CONTACT THE IRWD OFFICE TWO DAYS PRIOR TO THE IRRIGATION SYSTEM COVERAGE / AND CROSS CONNECTION TEST AT (949) 453-5300 AND ARRANGE A WALK THROUGH OF THE SYSTEM.
- 20. FAILURE TO COMPLY WITH ANY OR ALL OF THE ABOVE GUIDELINES WILL PLACE THE SYSTEM IN VIOLATION OF IRWD RULES AND REGULATIONS, AND WILL RESULT IN TERMINATION OF SERVICE UNTIL THE APPROPRIATE CORRECTIVE MEASURES HAVE BEEN TAKEN.
- 21. WARNING TAPE ON ALL RECYCLED WATER CONSTANT PRESSURE MAIN LINE PIPING IS ONLY ALLOWED ON PROJECT—BY—PROJECT APPROVAL BY THE DISTRICT ENGINEER. IF APPROVED, IT MUST FOLLOW THESE INSTALLATION SPECIFICATIONS:
- WARNING TAPE SHALL BE USED ON ALL CONSTANT PRESSURE MAIN LINES. WARNING TAPE SHALL BE A MINIMUM OF 3-INCHES WIDE AND SHALL RUN CONTINUOUSLY FOR THE ENTIRE LENGTH OF ALL CONSTANT PRESSURE MAIN LINE PIPING. THE TAPE SHALL BE ATTACHED TO THE TOP OF THE PIPE WITH PLASTIC TAPE BANDED AROUND THE WARNING TAPE AND THE PIPE EVERY 5-FEET ON CENTER. WARNING TAPE FOR THE CONSTANT PRESSURE RECYCLED WATER PIPING SHALL BE PURPLE IN COLOR WITH THE WORDS "CAUTION -RECYCLED (OR RECLAIMED) WATER" IMPRINTED A MINIMUM OF 1-INCH HIGH AND BLACK IN COLOR. IMPRINTING SHALL BE CONTINUOUSLY AND PERMANENT.

## DRIP IRRIGATION NOTES:

- 1. PROVIDE ONE (1) EMITTER EMISSION OUTLET TO EACH CONTAINER PLANT MATERIAL IDENTIFIED FOR IRRIGATION BY DRIP SYSTEM. REFER TO SHRUB EMISSION DETAIL #7, SHEET L-3.11.
- 2. PROVIDE FOUR (4) EMITTER EMISSION OUTLETS TO EACH TREE LOCATED WITH DRIP IRRIGATION ZONE, NOT COVERED BY SPRAY HEADS AND NOT IRRIGATED BY FLOOD BUBBLERS. REFER TO DRIP EMITTER TREE DETAIL 8, SHEET L—3.11.
- 3. VERIFICATION OF PLANT MATERIAL QUANTITIES AND NUMBER OF EMITTERS PER VALVE STATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. DRIP IRRIGATION LINES ARE SHOWN DIAGRAMMATIC FOR CLARITY. PROVIDE DRIP EMITTER PIPING TO EVERY TREE AND SHRUB AS REQUIRED. INSTALL ALL PIPING IN LANDSCAPE AREAS.
- 5. INSTALL PE PIPING WITHIN PVC SLEEVE WHEN ROUTING UNDER PAVED SURFACES.
- FOR INFORMATION ONLY: DRIP EMITTER BEGINS OPERATION WITH A 10 SECOND "FLUSH MODE" UPON EACH START-UP. FLOW MODE FLOW RATE IS INCREASED APPROXIMATELY 3 TIMES THE OPERATING RATE OF EMITTER. ALTHOUGH PIPE SIZING HAS BEEN DESIGNED TO ACCOMMODATE THIS FLOW, CONTRACTOR IS RESPONSIBLE FOR INSTALLING PVC AND PE PIPING OF SUFFICIENT SIZES TO PROVIDE FOR PROPER DRIP EMITTER OPERATION AS DESCRIBED BY THE MANUFACTURER.
- 7. REFER TO PLANTING LEGEND FOR PLANT MATERIAL NAMES, ABBREVIATIONS, SPECIFIC SIZES, ON-CENTER SPACING, AND ADDITIONAL INFORMATION.
- 8. PROVIDE ONE (1) FLUSH OUT ASSEMBLY AT EACH END OF DRIP SYSTEM PIPING OR AS SHOWN ON PLANS. LOCATE FLUSH OUT ASSEMBLY BOXES OUTSIDE OF TREE CANOPY DRIP LINES AND ADJACENT TO PLANTING BORDERS OR PAVING EDGES FOR MAINTENANCE CONVENIENCE. REFER TO FLUSH OUT DETAIL 6, SHEET L-3.11.
- 9. CONNECT PVC PIPING TO PRESSURE REGULATOR UNITS WITH PVC SCHEDULE 40 MALE ADAPTER FITTINGS. REFER TO PRESSURE REGULATOR DETAIL 5, AND DRIP SYSTEM PIPING CONNECTIONS DETAIL 9, SHEET L-3.11.

## IRRIGATION SYSTEM GENERAL DESCRIPTION:

- 1. LANDSCAPE AREAS CONSISTING OF SHRUBS AND GROUND COVERS TO BE IRRIGATED WITH PROPOSED DRIP EMITTER IRRIGATION. TREES INSTALLED WITHIN MULCH AND DRIP AREAS SHALL BE IRRIGATED WITH BUBBLER EMITTERS.
- 2. THE IRRIGATION SYSTEM IS SUPPLIED WITH RECLAIMED WATER FROM IRVINE RANCH WATER DISTRICT (IRWD) TO SERVE THE IRRIGATION—USE ONLY WATER METER. NO DOMESTIC WATER IS REQUIRED FOR IRRIGATION. THERE ARE NO DRINKING FOUNTAINS ON SITE. THE IRRIGATION SYSTEM AS DESIGNED IS INTENDED TO COMPLY WITH IRWD RECLAIMED WATER RULES AND REGULATIONS.
- 3. THE AUTOMATIC SPRINKLER CONTROLLER IS COMPATIBLE WITH THE CITY OF IRVINE'S COMPUTER CENTRAL CONTROL SYSTEM. A COMMUNICATION UNIT FOR LINKING SATELLITE CONTROLLERS TO THE EXISTING CCU LOCATED AT TURTLE ROCK PARK, VIA POINT—TO—POINT RADIO, IS SPECIFIED AS PART OF THE AUTOMATIC CONTROL SYSTEM.
- 4. A FLOW SENSOR AND MASTER VALVE ARE INCORPORATED INTO THE IRRIGATION DESIGN. IN ADDITION TO PROVIDING HIGH FLOW SHUT—OFF CAPABILITY, THE FLOW SENSOR REGISTERS MONTHLY WATER USAGE.
- 5. GATE VALVES HAVE BEEN PROVIDED TO ALLOW PARTIAL SHUT DOWN OF THE IRRIGATION SYSTEM DURING SERVICE AND REPAIRS.

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3 4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3		shall be held confidential:	J. AUSTIN	NOT FOR	METROLINK®		
2 01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			1	Shall be held confidential; and shall not be used for		CONSTRUCTION	
	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1		any purpose not provided	-		Gannett Fleming	SUBMITTED:PROJECT MANAGER	
	CONDITIONAL USE PERMIT SUBMITTAL		Southern California Regional Rail Authority.			AECOM	APPROVED:	
REV. DATE	BY	Y SUB. APP.	Non Authority.	04/11/2022		AECOM		

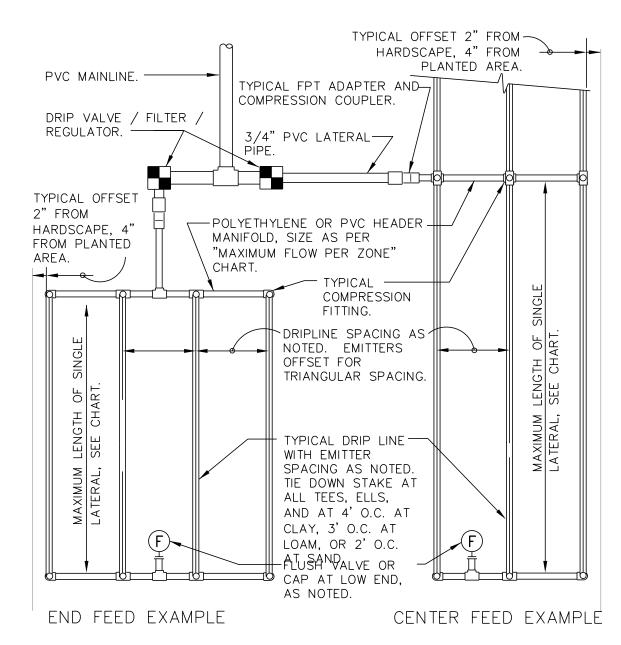
METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT
IRRIGATION NOTES AND LEGEND

CASE NO. 00846471-PCPU
CONTRACT NO. C91143

DRAWING NO.
CUP-32

REVISION SHEET NO.
3 32

SCALE
NO SCALE



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 20 30 40 50 60	125 249 307 350 125 125	175 350 434 495 175 175	218 442 550 627 218 218					

GRID PR	MAXI						
EMITTER	EMITTER LATERAL EMITTER FLOW RATE						
SPACING	SPACING	0.6		SCHE			
12 18 24	12 18 24	0.96 0.69 0.28		1/2" 3/4' 1"			
LATERAL FLOW PER 100 FT (GPM)							
EMITTER	12"	18"	24"	POLY   1/2"			
FLOW	SPACING		SPACING	3/4			

IMUM FLOW PER ZONE MAX GPM PSI LOSS DULE 40 PVC HEADER SIZE 4.7 GPM 7.7 PSI 8.3 GPM 5.6 PSI 13.5 GPM 4.2 PSI /2" 33.9 GPM 2.9 PSI 52.4 GPM 1.9 PSI PIPE HEADER SIZE 4.7 GPM 8.8 PSI 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:

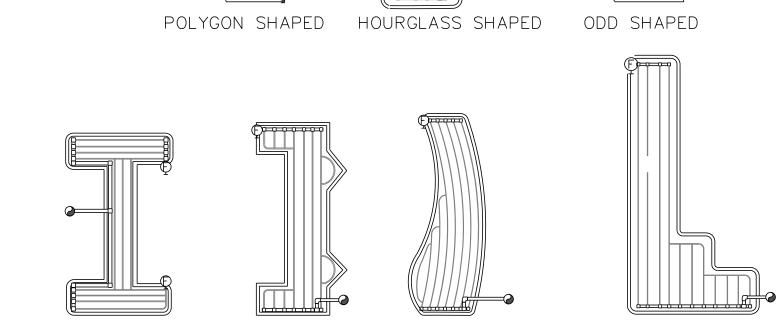
0.6 GPH 1.0 GPM 0.67 GPM 0.5 GPM

- DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE
- INSTALL AIR RELIEF VALVE AT HIGHEST POINT. 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.

PVC SCH 40 TELL OR ELL PVC MANIFOLD LINE EASY FIT COMPRESSION EASY FIT COMPRESSION LANDSCAPE DRIPLINE TUBING

EXAMPLE CONFIGURATIONS

LEGEND



CURVED POLYGON

DRIPLINE AREA

SCALE: N.T.S.

DOGBONE SHAPED

STEP 1: STRIP WIRES 1/2" FROM ENDS.

WATER SOURCE: DRIP VALVE OR LATERAL FROM VALVE

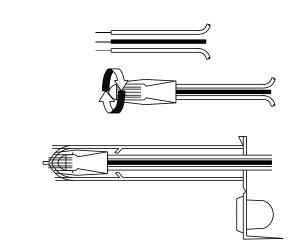
LANDSCAPE DRIPLINE TUBING -PVC MANIFOLD LINE WITH PVC TEE -

FLUSH VALVE - F

MANIFOLD/DRIPLINE CONNECTION

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.



STEP 4: POSITION WIRES IN WIRE CHANNELS AND CLOSE

"C" SHAPED

INSULATOR TUBE COVER. NOTE: MAXIMUM WIRE SIZES PER CONNECTOR ARE THREE #

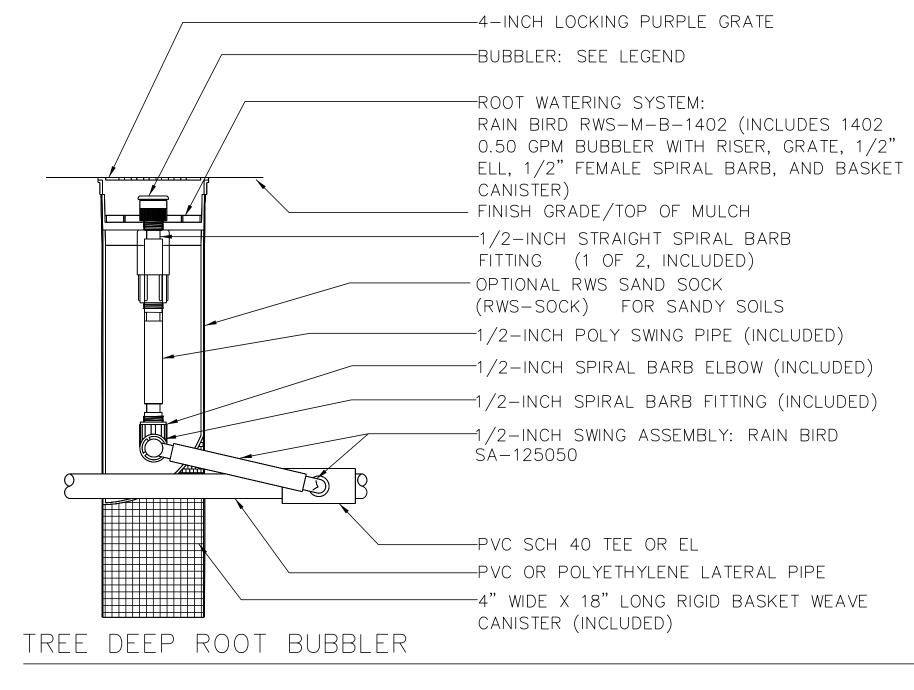
14'S OR TWO #12'S.

WIRE CONNECTION

REV. DATE

SCALE: N.T.S.

CORNER SHAPED



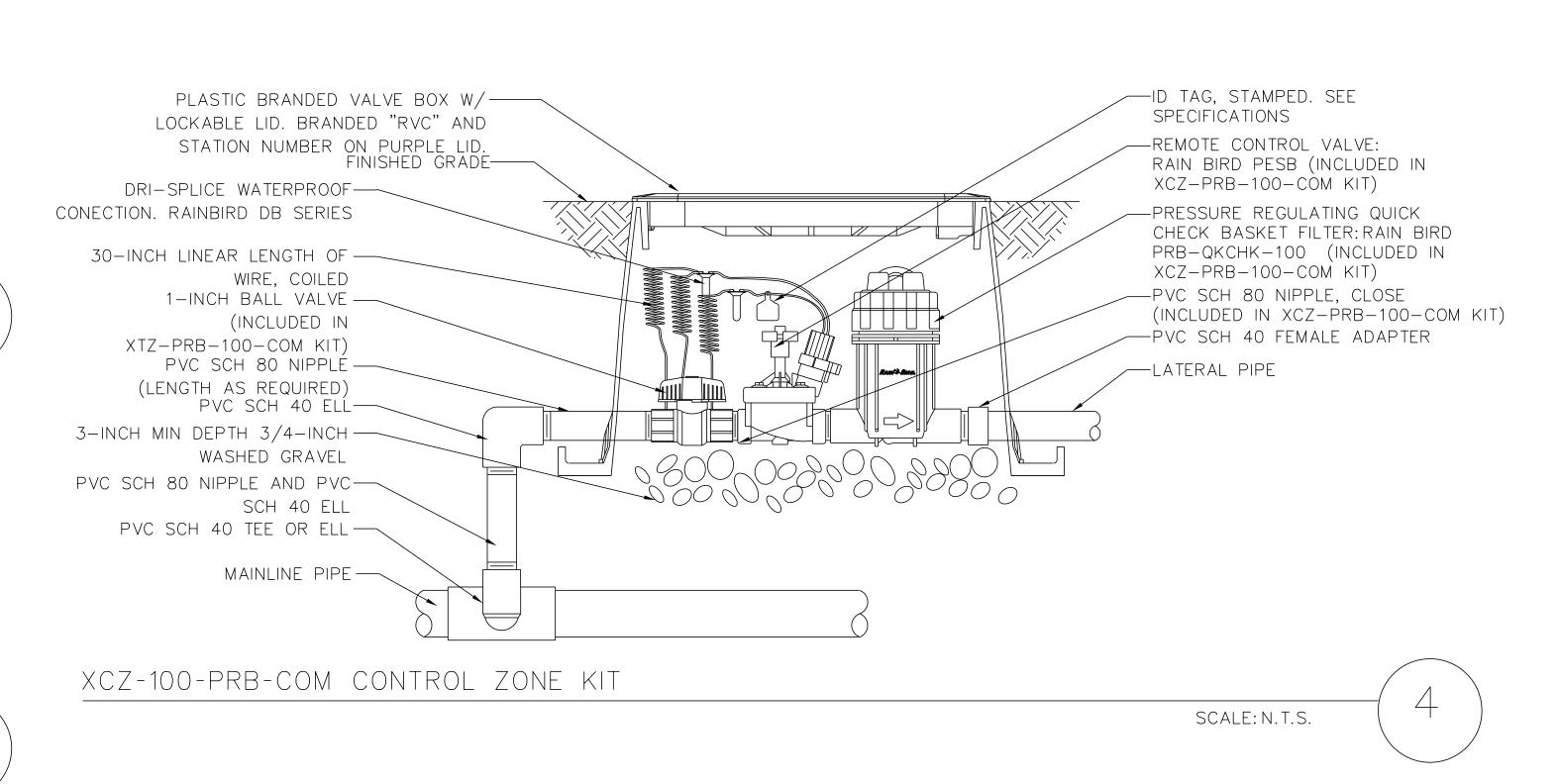
1. INSTALL PRODUCT SO THAT THE GRATE IS EVEN WITH FINISH GRADE OR TOP OF MULCH.

2. SAND SOCK (RWS-SOCK) IS 34" IN LENGTH. CUT TO LENGTH NEEDED TO COVER MESH BASKET AREA.

3. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 34" GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION. 4. ONCE RWS-M HAS BEEN INSTALLED FILL

THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.

SCALE: N.T.S.



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DESIGNED BY J. AUSTIN S. BOUP., D. FEE CHECKED BY

04/11/2022

NOT FOR A. CARDENAS CONSTRUCTION

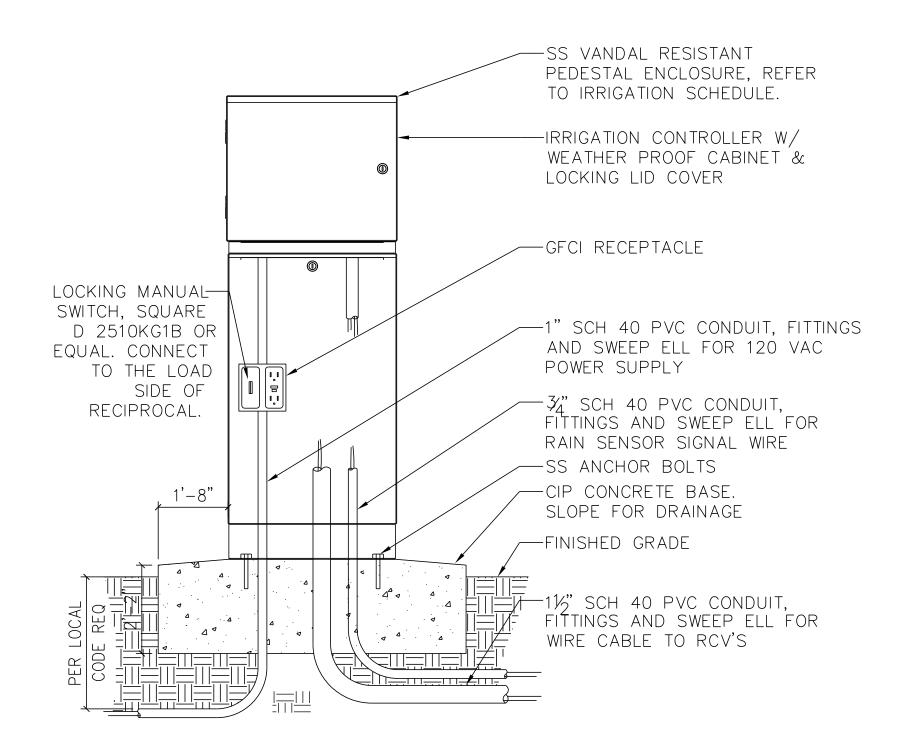


APPROVED:

**A**ECOM

METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT **IRRIGATION DETAILS 1** 

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



1. INSTALL PER LOCAL ELECTRICAL CODES. 2. PROVIDE GROUNDING ROD AS REQUIRED BY LOCAL CODE AND MANUFACTURER SPECIFICATIONS.

CONTROLLER (PEDISTAL MOUNT)

SCALE: N.T.S.

- FACE OF BUILDING - RAIN SENSOR -RSC FEMALE ADAPTER (SLIP X FIPT) -3/4-INCH RIGID STEEL CONDUIT -90° RSC PULL ELBOW -PIPE STRAP, MECHANICALLY FASTEN TO BLDG WIRE TO IRRIGATION CONTROLLER

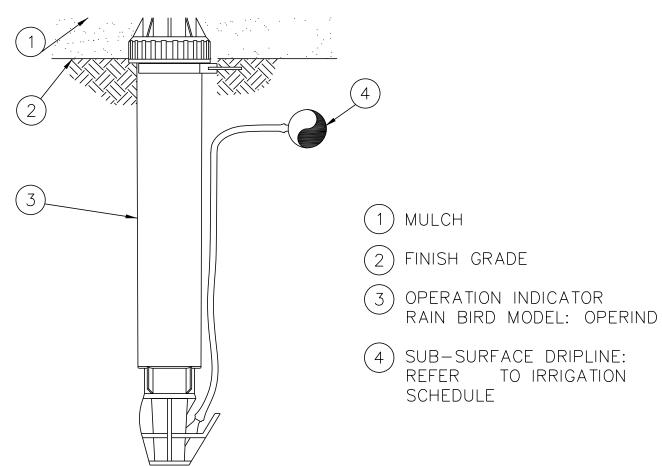
6" MIN.

INSTALL SENSOR 12'-0" MIN ABOVE FINISHED GRADE.

RAIN SENSOR MOUNTED TO WALL

NOTE:

SCALE: N.T.S.

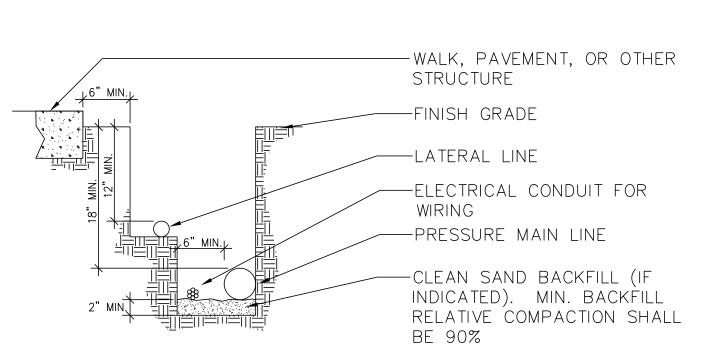


1. USE XERIMAN TOOL XM-TOOL TO INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.

2. VAN NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO 1/4 PATTERN. THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.

SUB-SURFACE DRIPLINE OPERATION INDICATOR

SCALE: N.T.S.



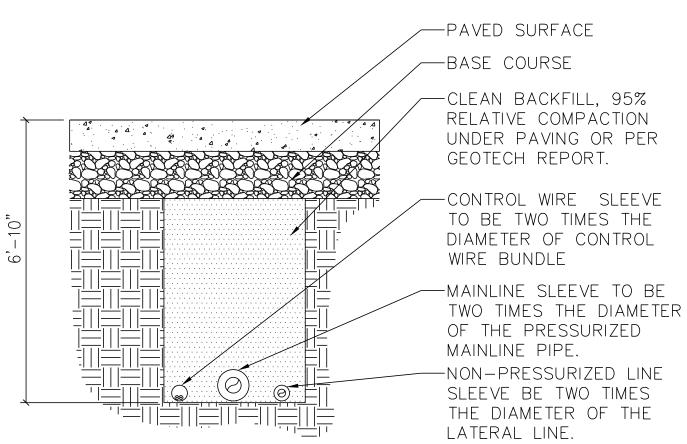
- NOTES:

  1. ALL PLASTIC PIPING TO BE SNAKED IN TRENCHES
- BUNDLE & TAPE CONTROL WIRES AT 10' INTERVALS 3. TIE A LOOSE 24" LOOP IN WIRING AT CHANGE OF DIRECTION GREATER THAN 30'. UNTIE ALL LOOPS AFTER ALL CONNECTIONS HAVE BEEN MADE.
- 4. UNDER PAVED AREAS, ALL PRESSURE LINES & WIRES SHALL BE
- SLEEVED W/ SCH. 80 PVC PIPE & SHALL BE 24" MIN IN DEPTH. 5. INSTALL ALL CONTROL WIRES ON UNDERSIDE OF MAINLINE PIPE
- 6. PIPE DEPTH FOR PRESSURE MAINLINE SHALL BE 18" MIN.
- 7. PIPE DEPTH FOR ALL NON-PRESSURE LATERAL LINES SHALL BE

12" MIN.

PIPE TRENCHING

SCALE: N.T.S.

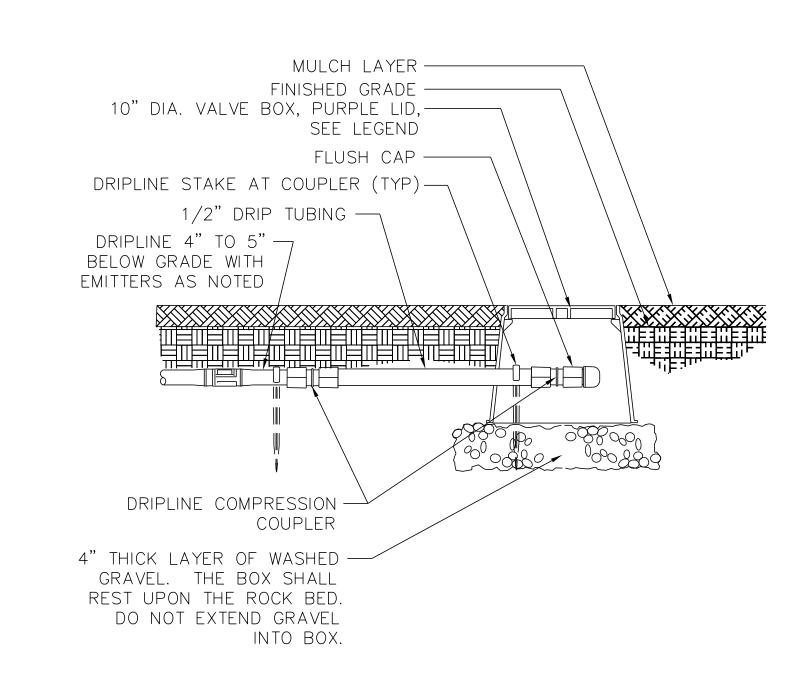


- 1. SEE IRRIGATION LEGEND FOR MAINLINE SIZE AND TYPE.
- 2. ALL SLEEVES SHALL BE SCH. 40 PVC PIPE.
- 3. ALL SLEEVES SHALL EXTEND 6" BEYOND THE EDGE OF PAVEMENT. 4. END OF SLEEVES SHALL BE LOCATED WITH A WOODEN STAKE OR PVC PIPE. LOCATORS SHALL RUN CONTINUOUSLY FROM THE END

OF THE SLEEVE TO FINISHED GRADE.

PIPE SLEEVING

1"=1'-0"



DRIPLINE FLUSH VALVE BELOW GRADE

SCALE: N.T.S.

pngr						
01/						INFORMATION CONFIDENTIAL:
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)\g						furnished herewith shall remain the property of the the Southern California Regional Rail Authority and
king∖gtpw	3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3			
wor	2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2			shall be held confidential; and shall not be used for
νď	1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1			any purpose not provided
:: :	0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL			for in agreements with the Southern California Regional
	REV.	DATE		BY SUB.	APP.	Rail Authority.

DESIGNED BY J. AUSTIN NOT S. BOUP., D. FEE FOR CHECKED BY CONSTRUCTION A. CARDENAS APPROVED BY



	<b>ZULIIVIK</b> ®
<b>Gannett Fleming</b>	SUBMITTED:PROJECT MANAGER
AECOM	APPROVED:

METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT **IRRIGATION DETAILS 2** 

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

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04/11/2022

MASTER VALVE/FLOW SENSOR ASSEMBLY (2-WIRE)

SCALE: N.T.S.

LEGEND: (1) CONTROL WIRE W/ 24" COILED EXPANSION LOOP

(2) WATERPROOF WIRE CONNECTOR

(3) VALVE WATER I.D. TAG. ( NYLON TIE THROUGH HOLE IN TAG)

(4) FINISH GRADE

(5) BACKFILL MATERIAL

ADDITIONAL HOLES IN BOX) CONTROL VALVE PER LEGEND, SEE PLAN FOR SIZE

(7) PVC SCH 80 MALE ADAPTER, 2 (ST) REQUIRED.

(8) SUPPLY LINE FROM MANIFOLD.

(9) NON-PRESSURE LATERAL LINE, SEE PLAN FOR SIZE.

(10) GRAVEL BASE AND SUMP. (COMPACT GRAVEL FOR BOX BASE, DO NOT USE BLOCKS OR BRICKS, FILL GRAVEL TO BOTTOM OF VALVE. (11) PVC SCH 80 SINGLE UNION, MIPT X FIPT MODEL.

6 RECTANGULAR VALVE BOX, SEE SPECS. (DO NOT CUT (12) FILTER FABRIC. WRAP 1 LAYER AROUND BOX COVERING HOLES.

> (13) PVC LATERAL LINE PIPE, 45 DEGREE TO SURFACE NOTE:

A. USE TEFLON TAPE ON ALL THREADED JOINTS

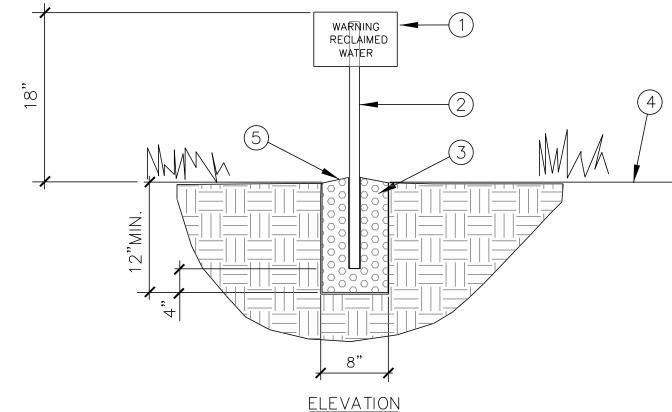
BY SUB. APP.

RCV ASSEMBLY

0 | 6/30/21 | CONDITIONAL USE PERMIT SUBMITTAL

SCALE: N.T.S.

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.

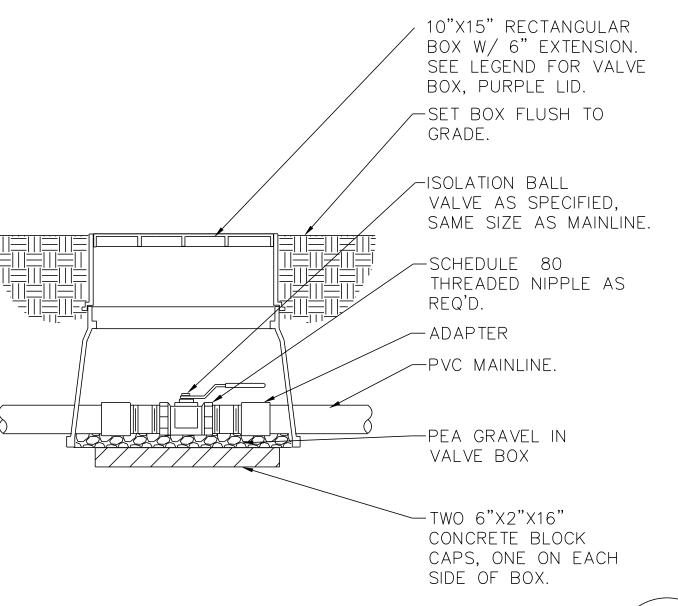


LEGEND:

- 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.
- (2.) 1-1/4" GALVANIZED STEEL POLE U-CHANNEL, OR BOX POST
- 3. CONCRETE FOOTING. MINIMUM 2,000 PSI. SET TOP OF FOOTING BELOW FINISH GRADE.
- 4.) PLANTING AREA FINISH GRADE.
- (5.) SLOPE TO DRAIN.
- REQUIRED SIGNAGE FOR RECYCLED WATER USE AREAS: ALL USE AREAS ACCESSIBLE TO THE PUBLIC SHALL NE POSTED WITH SIGNS ( MINIMUM TWO PER METER) THAT AREA VISIBLE TO THE PUBLIC IN A SIZE NO LESS THAT 4 INCHES HIGH BY 8
- 2. 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.



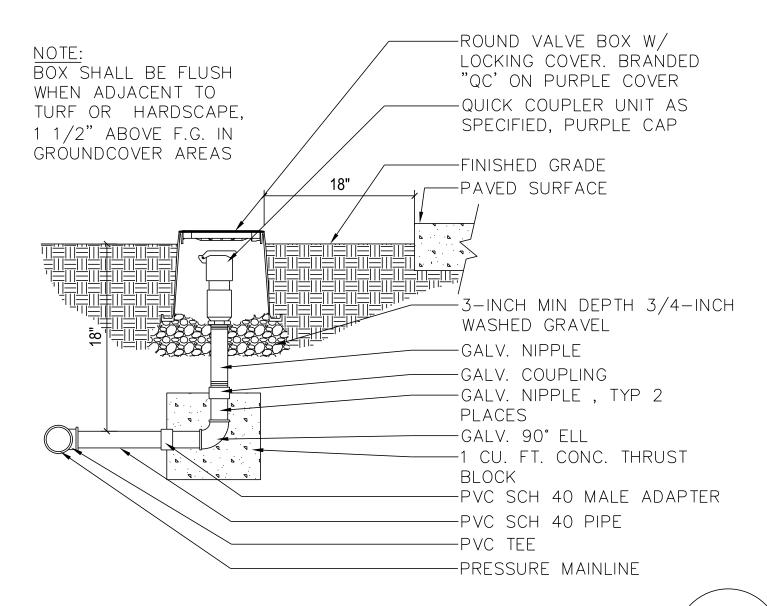
SCALE: N.T.S.



BRASS BALL ISOLATION VALVE

**AECOM** 

 $1 \ 1/2$ " = 1'-0"



QUICK COUPLER

 $1 \ 1/2$ " = 1'-0"

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3	4/11/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 3	the Southern California Regional Rail Authority and
2	01/10/22	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2	shall be held confidential;
1	10/13/21	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1	any purpose not provided

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

NOT FOR CONSTRUCTION
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METI	<b>70</b> L	INK
<b>E</b> Gannett Fleming	SUBMITTED:	PROJECT MANAGER

APPROVED:

METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

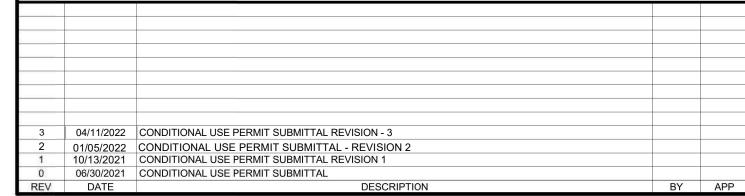
**IRRIGATION DETAILS 3** 

CASE NO.	00	846471-PCPU	
CONTRACT	NO.	C91143	
CUP-35			
REVISION	SHEET	NO.	
3	3	5	
SCALE	NO	SCALE	

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REV. DATE





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

MIN. REQUIRED EXIT SEPARATION DISTANCE = 55'-6"

STORAGE GROUP S-1 - 250 FEET

FIRST FLOOR - 40,392 S.F.

WITH SERVICE BAYS, STORAGE, AND OFFICE FUNCTIONS.

**CONSTRUCTION TYPE:** 

TYPE 2-B

**BUILDING SIZE:** 

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

MAINTENANCE BUILDING - ONE STORY STEEL FRAMED MAINTENANCE FACILITY

**HIGH LEVEL STORAGE** 

23

RECEIVING, AND STAGING AREA 22

OVERALL PLAN

98'-6"

STRUCTURAL FRAME - 0 HOURS

**BUILDING INFORMATION** 

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

**BUILDING NAME AND DESCRIPTION:** 

## **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 306.2)
- 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)

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

## EXIT SEPARATION DISTANCE (PER CBC SECTION 1007.1.1):

- MAX DIAGONAL DIMENSION OF SPACE 407'-4" MIN. REQUIRED EXIT SEPARATION DISTANCE (SPRINKLERED BUILDING) -1/3 x 407'-4" = 135'-9"
- MAX DIAGONAL DIMENSION OF SPACE 161'-3"
- 2. MIN. REQUIRED EXIT SEPARATION DISTANCE (SPRINKLERED BUILDING) -
- 1/3 x 161'-3" = 53'-9" STORAGE AREA -
  - MAX DIAGONAL DIMENSION OF SPACE 166'-6" 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 = 26 OCCUPANTS
- INDUSTRIAL 29,445 SF / 100 SF = 295 OCCUPANTS STORAGE AREA - 5,160 SF / 300 SF = 17 OCCUPANTS

SOUTHERN CALIFORNIA

REGIONAL RAIL AUTHORITY.

TOTAL = 371 OCCUPANTS (MEN TO WOMEN RATIO = 50/50)

## **DESIGNED OCCUPANT LOAD FACTORS:**

 INDUSTRIAL - 800 SF OFFICE - 100 SF

PARTS SUPERVISOR

21

- 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 = 26 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):

109' - 0"

SUPPORT SHOP

## 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**

APPROVED:

10

**SPRINKLER** 

ROOM

ROOM

MAINTENANCE

BAYS

18

MAX DIAGONAL DISTANCE = 409'-3"

MIN. REQUIRED EXIT SEPARATION DISTANCE = 135'-9"

**FACILITIES** 

WORKSHOP

**MEN'S LOCKER** 

16

106' - 9"

MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE. DIMENSIONS AT CMU WALLS ARE TO THE FACE OF CMU UNLESS NOTED

Patatatatatatat

(11)

- 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
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## **FLOOR PLAN NOTES**

WOMEN'S RTG LUNCH

**LOCKER ROOM** 

RESTROOM OPEN OFFICE

FIRST LACT.

15

20

SERVER ROOM STORAGE

- 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,

196' - 11"

- PROJECTION SCREENS, MARKER BOARDS, TACK BOARDS, CHALK BOARDS, TELEVISION BRACKETS, AND ALL OTHER WALL MOUNTED
- 9 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.
- 10 SEE CIVIL DRAWINGS FOR CONCRETE PADS AND BOLLARD LOCATIONS
- AT EXTERIOR DOORS. 11 BUILDING INCLUDES HIGH-PILED STORAGE.

## **DRAWING LEGEND**

**OFFICE** 

6

OFFICE

**MEETING ROOM** 

8

**INDUSTRIAL** 

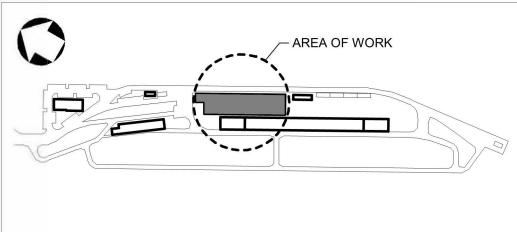
**OFFICE** 

LOCKER ROOMS

STORAGE AREA

■ • • • ■ 1 HR RATED FIRE WALL







METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

ARCHITECTURE MAINTENANCE BUILDING - OVERALL FLOOR PLAN

CASE NO. 00846471-PCPL CONTRACT NO. C91143 DRAWING NO. CUP-036 REVISION SHEET NO. SCALE

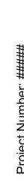
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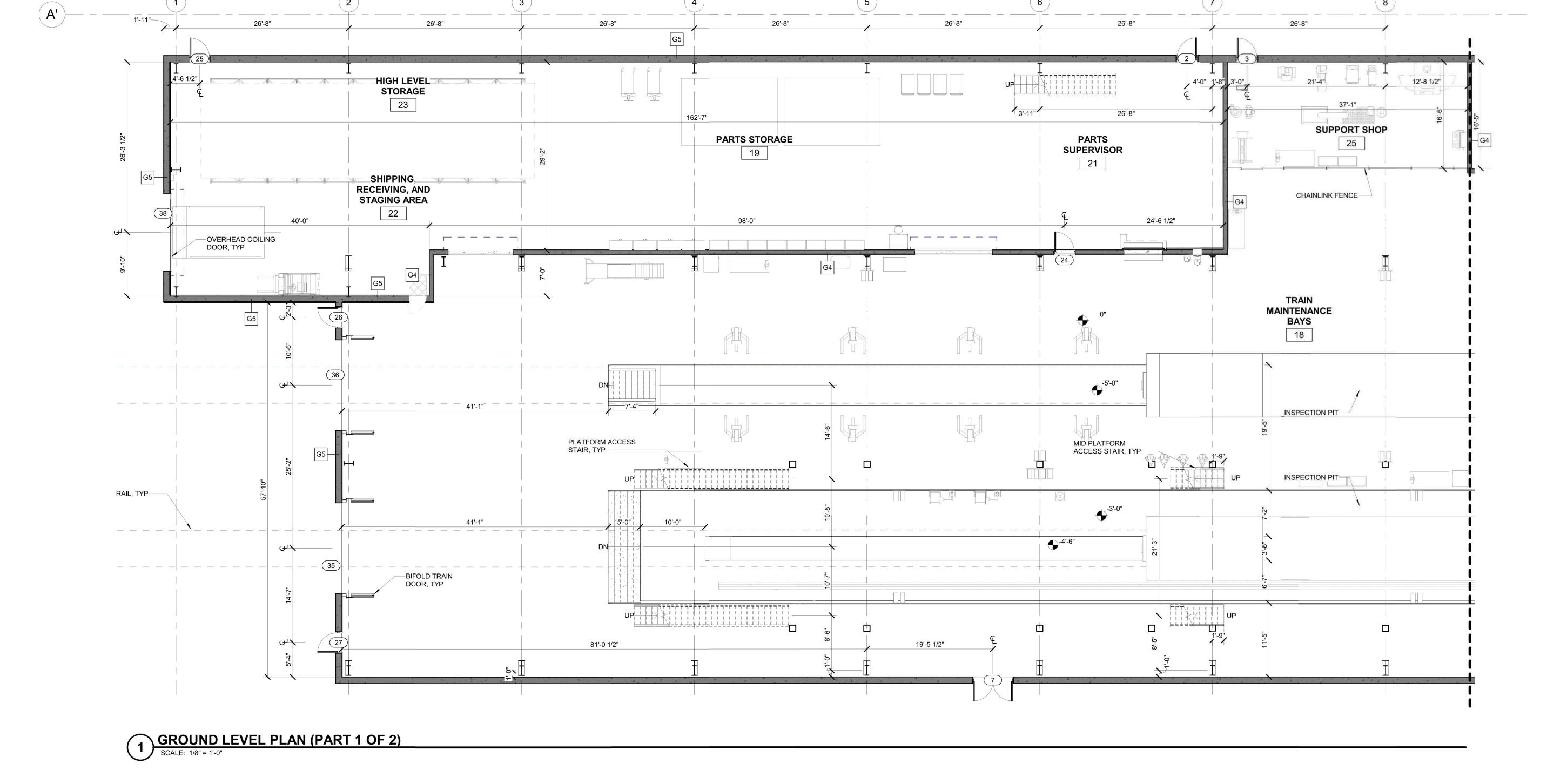
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04/11/2022

METROLINK **Example 1 Example 2 Example 3 Example 3 Example 4 Example 5 Example 5 Example 6 Example 6 Example 7 Examp** PROJECT MANAGER



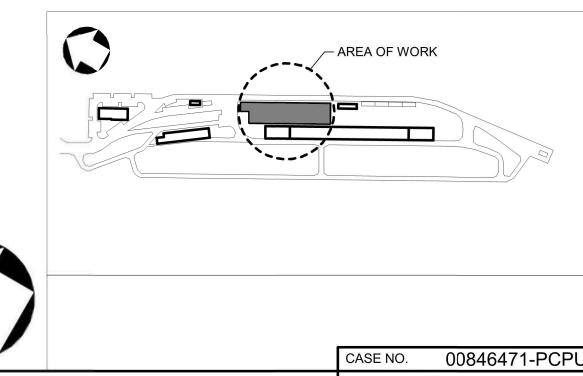


#### **FLOOR PLAN NOTES**

- 1 MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE. 2 DIMENSIONS AT CMU WALLS ARE TO THE FACE OF CMU UNLESS NOTED
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- 11 BUILDING INCLUDES HIGH-PILED STORAGE.



METR	OLINK

METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

ARCHITECTURE MAINTENANCE BUILDING - PART PLAN I CONTRACT NO. C91143 DRAWING NO. CUP-037A REVISION SHEET NO. SCALE 1/8" = 1'-0"

INFORMATION CONDFIDENTIAL: 04/11/2022 CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3 01/05/2022 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2 10/13/2021 CONDITIONAL USE PERMIT SUBMITTAL REVISION 1 06/30/2021 CONDITIONAL USE PERMIT SUBMITTAL

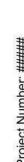
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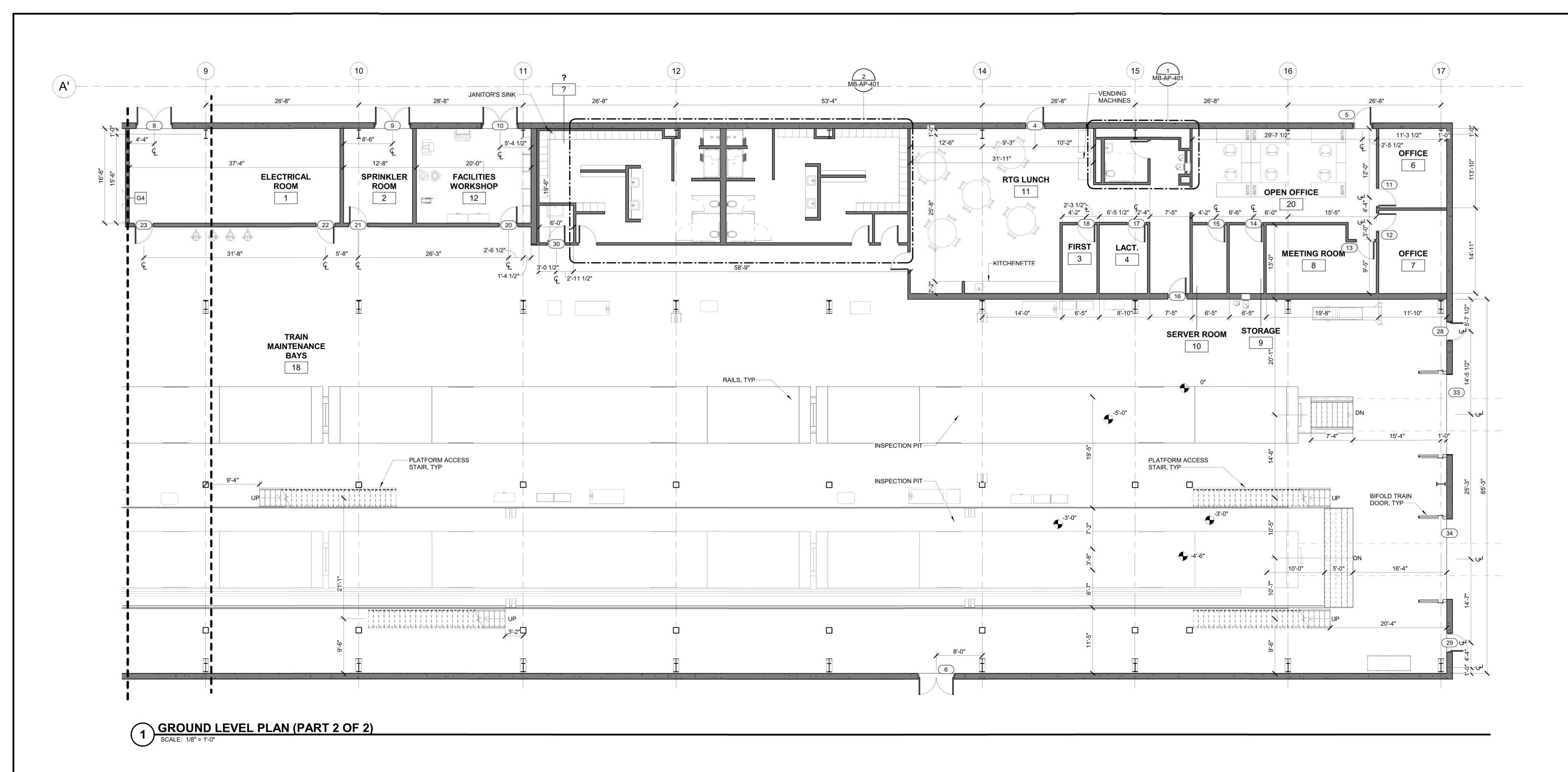
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**Example 1 Example 2 Example 3 Example 3 Example 4 Example 5 Example 5 Example 6 Example 6 Example 7 Examp** 

SUBMITTED: \_\_\_\_\_\_PROJECT MANAGER APPROVED:





#### **FLOOR PLAN NOTES**

- 1 MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE. 2 DIMENSIONS AT CMU WALLS ARE TO THE FACE OF CMU UNLESS NOTED
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- 10 SEE CIVIL DRAWINGS FOR CONCRETE PADS AND BOLLARD LOCATIONS AT EXTERIOR DOORS.

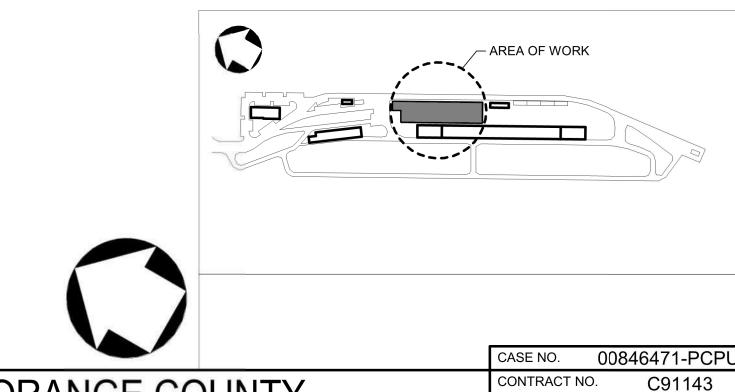
**DESIGNED BY** 

**JML** 

RW

04/11/2022

11 BUILDING INCLUDES HIGH-PILED STORAGE.



06/30/2021	CONDITIONAL USE PERMIT SUBMITTAL		REGIONAL RAIL AUTHORITY.
10/13/2021	CONDITIONAL USE PERMIT SUBMITTAL REVISION 1		SOUTHERN CALIFORNIA
01/05/2022	CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2		FOR IN AGREEMENTS WITH THE
04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3		ANY PURPOSE NOT PROVIDED
			AND SHALL NOT BE USED FOR
			SHALL BE HELD CONFIDENTIAL:
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			REMAIN THE PROPERTY OF THE SOUTHERN CALIFORNIA
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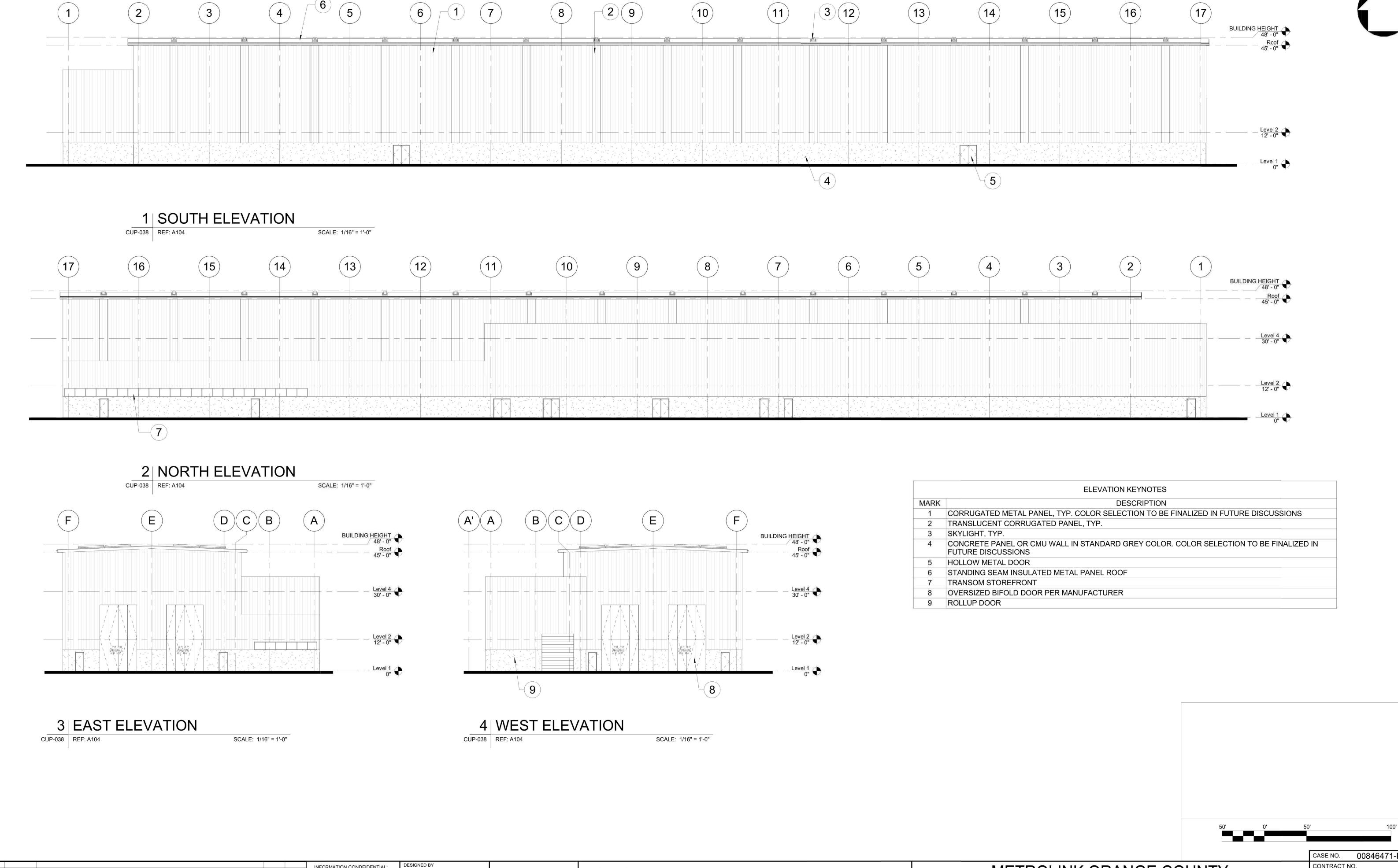
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METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

> ARCHITECTURE MAINTENANCE BUILDING - PART PLAN II

DRAWING NO. CUP-037B REVISION SHEET NO. 1/8" = 1'-0"



04/11/2022 CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3

10/13/2021 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1

06/30/2021 CONDITIONAL USE PERMIT SUBMITTAL

01/05/2022 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2

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.

ALL PLANS, DRAWINGS, SPECIFI-CATIONS, AND OR INFORMATION 04/11/2022







METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

> ARCHITECTURE MAINTENANCE BUILDING ELEVATIONS

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



04/11/2022 | CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3 01/05/2022 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2 10/13/2021 CONDITIONAL USE PERMIT SUBMITTAL REVISION 1 06/30/2021 CONDITIONAL USE PERMIT SUBMITTAL

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FOR **REVIEW** ONLY NOT FOR 04/11/2022



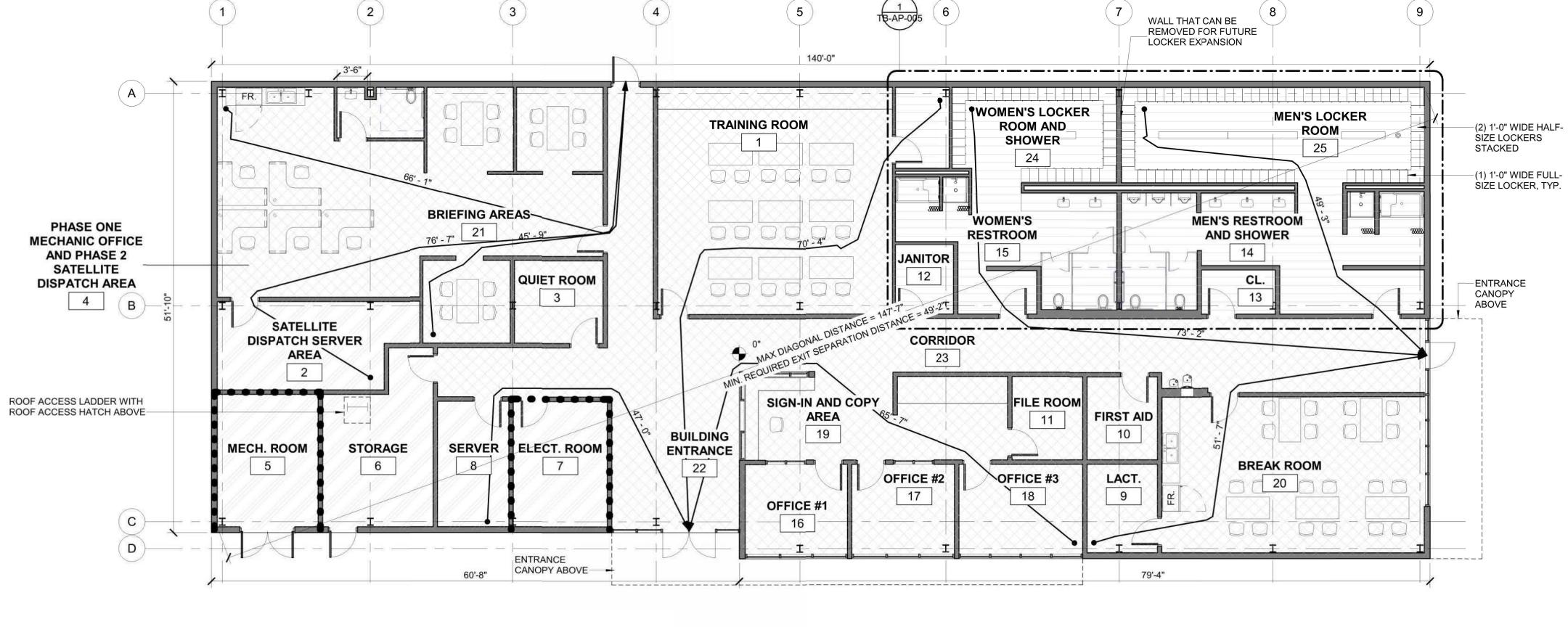
Type Mark

BREAK ROOM

BRIEFING AREAS

SIGN-IN AND COPY AREA

TRAINING ROOM



## TRANSPORTATION BUILDING

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

MAXIMUM EXIT ACCESS TRAVEL DISTANCE PROVIDED - 102'-2"

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

2. MIN. REQUIRED EXIT SEPARATION DISTANCE (SPRINKLERED BUILDING) -

## **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
- FLOOR CONSTRUCTION 0 HOURS
- ROOF ASSEMBLY 0 HOURS

#### 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)

- BEARING WALLS (EXTERIOR AND INTERIOR) 0 HOURS
- ROOF CONSTRUCTION 0 HOURS

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

- MECH. ROOM = 202 SF < 749 SF
- 5. SERVER ROOM 2 = 215 SF < 749 SF

#### 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

MAXIMUM COMMON PATH OF TRAVEL DISTANCE:

EXIT SEPARATION DISTANCE (PER CBC SECTION 1007.1.1):

MAX DIAGONAL DIMENSION OF SPACE - 147'-6"

MAXIMUM OCCUPANT LOAD FACTORS (PER CBC TABLE 1004.5):

BUSINESS GROUP B - 100 FEET

BUSINESS GROUP B -

OFFICE - 150 SF (GROSS)

- STORAGE AREA = 275 SF < 749 SF
- 4. SERVER ROOM 1 = 133 SF < 749 SF
- 6. 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**

- 1 MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE.
- 2 DIMENSIONS AT CMU WALLS ARE TO THE FACE OF CMU UNLESS NOTED
- 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 ON ONE OR BOTH SIDES.
- 5 PROVIDE LINTELS 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

Family

PHASE ONE MECHANIC OFFICE AND PHASE 2 SATELLITE DISPATCH AREA

ADSK\_US\_I\_19\_Furniture\_System-Standing\_Desk-L\_with\_Square\_End-Corner\_Angled

ADSK US I 19 Chair-Desk

ADSK\_US\_I\_19\_Chair-Desk ADSK US M Table-Rectangular

ADSK\_US\_I\_19\_Chair-Desk

ADSK US I 19 Chair-Desk

ADSK US I 19 Chair-Desk ADSK US M Table-Rectangular

ADSK\_US\_M\_Table-Rectangular

**FURNITURE SCHEDULE** 

#### 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
- 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. 10 SEE CIVIL DRAWINGS FOR CONCRETE PADS AND BOLLARD LOCATIONS
- AT EXTERIOR DOORS.

#### 11 SEE INDUSTRIAL DRAWINGS FOR EQUIPMENT

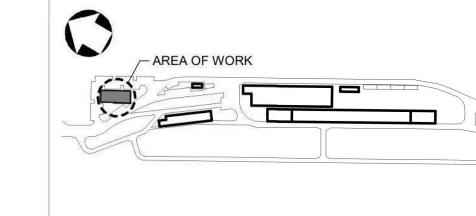
Description Count

## DRAWING LEGEND



1 HR RATED FIRE WALL

► PATH OF EGRESS



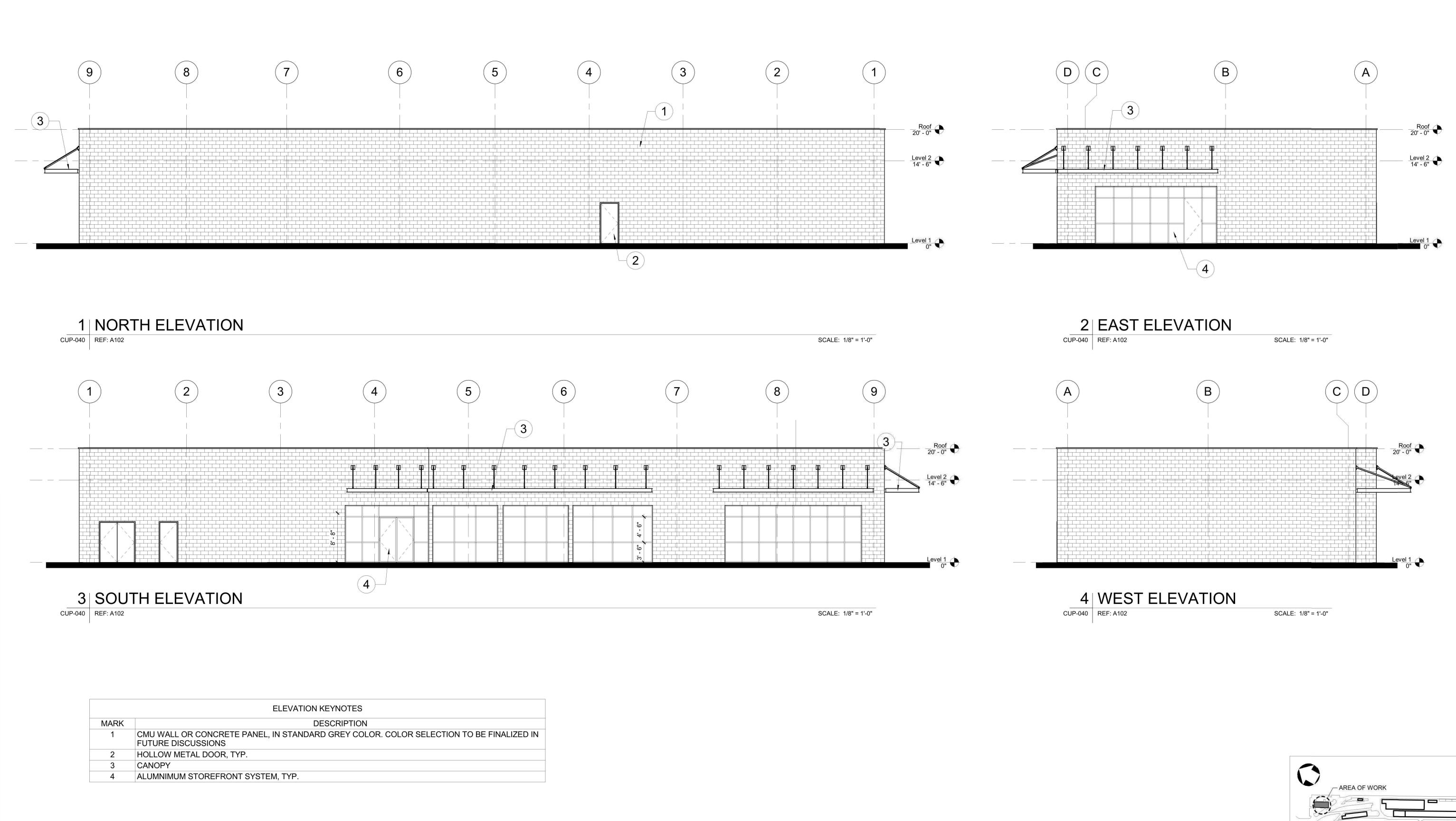


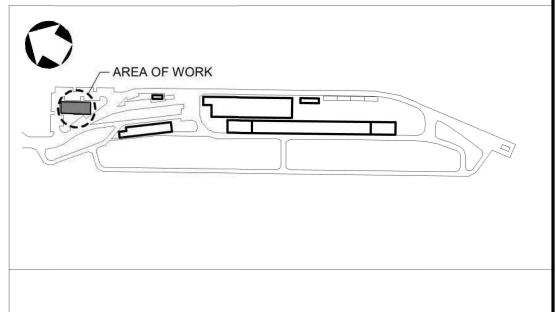
## METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

ARCHITECTURE TRANSPORATION BUILDING OVERALL FLOOR PLAN CASE NO. 00846471-PCPL CONTRACT NO. C91143 DRAWING NO. CUP-039 REVISION SHEET NO. 40 **SCALE** As indicated

**DESIGNED BY JML JML** RW RW

CONSTRUCTION





04/11/2022 | CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3 01/05/2022 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2 10/13/2021 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1

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04/11/2022





APPROVED:

## METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

ARCHITECTURE TRANSPORTATION BUILDING ELEVATIONS CASE NO. 00846471-PCPU CONTRACT NO. DRAWING NO. CUP-040 REVISION SHEET NO. 1/8" = 1'-0"

**DESIGNED BY** 

**JML** 

DRAWN BY

CHECKED BY

04/11/2022

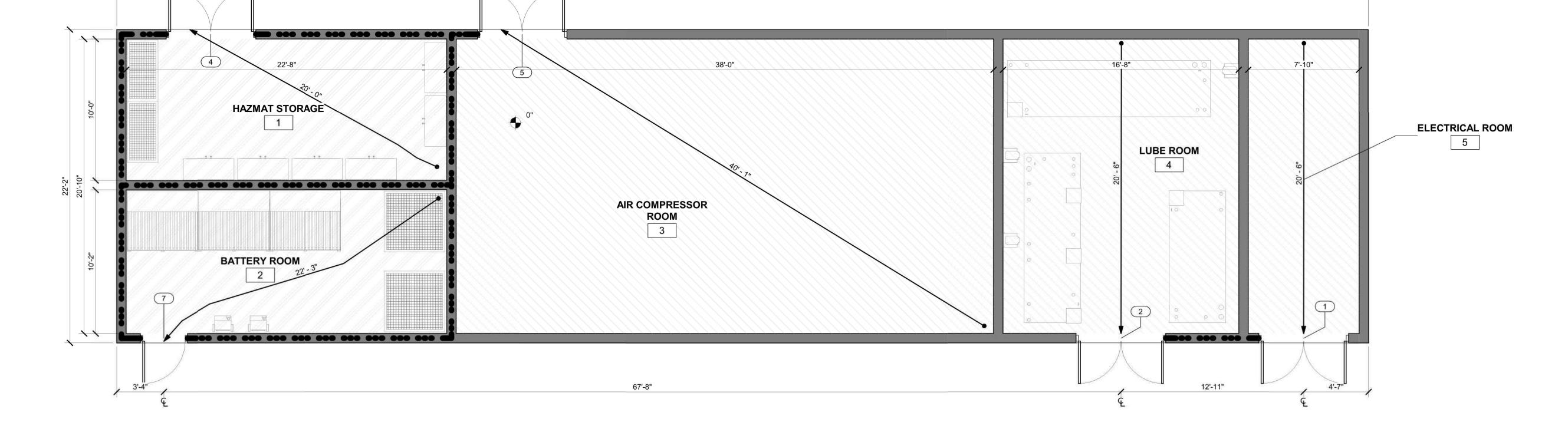
**JML** 

RW

RW

FOR **REVIEW** ONLY NOT FOR CONSTRUCTION





88'-6"

#### **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:**

TYPE 2-B

FIRST FLOOR - 981 S.F.

#### **CONSTRUCTION TYPE:**

#### 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

- 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

**UTILITY BUILDING** 

 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" 2. 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**

- 1 MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE. 2 DIMENSIONS AT CMU WALLS ARE TO THE FACE OF CMU UNLESS NOTED
- 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
- ON ONE OR BOTH SIDES. 5 PROVIDE LINTELS 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.

#### FLOOR PLAN NOTES

- 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
- 9 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.
- 10 SEE CIVIL DRAWINGS FOR CONCRETE PADS AND BOLLARD LOCATIONS
- AT EXTERIOR DOORS. 11 SEE INDUSTRIAL DRAWINGS FOR EQUIPMENT
- 12 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

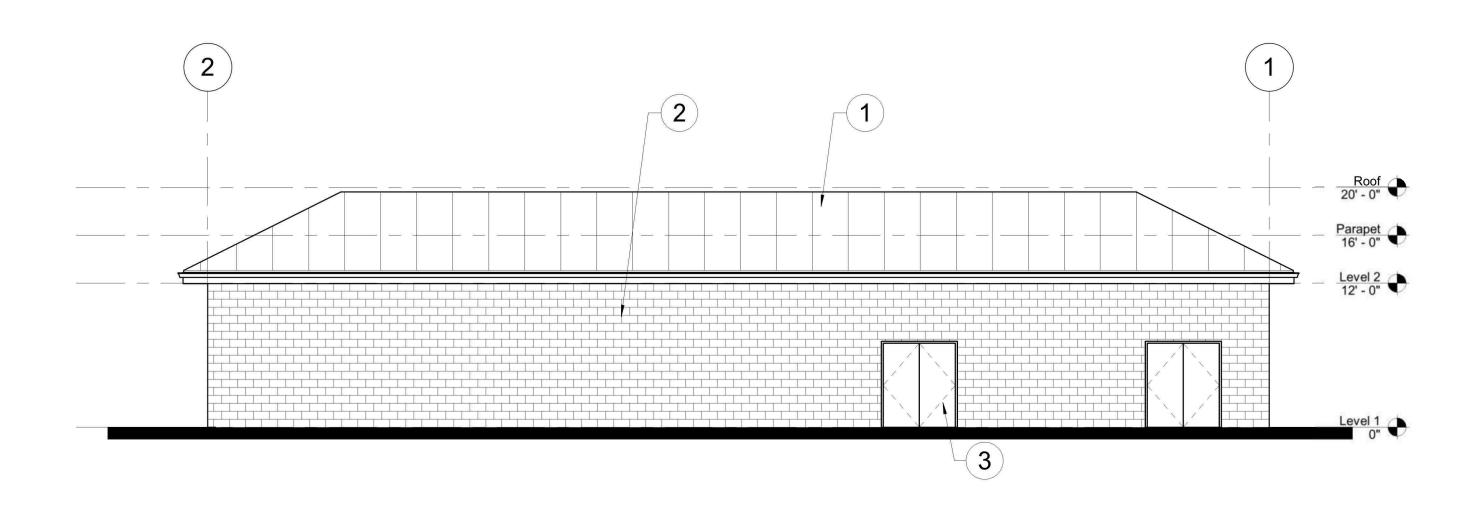
→ PATH OF EGRESS

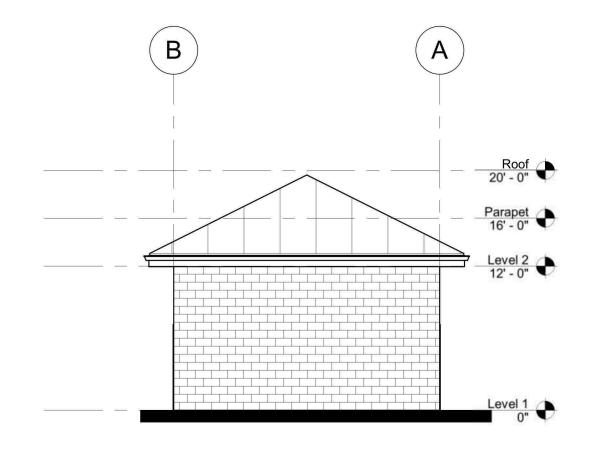
# - AREA OF WORK

# METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

ARCHITECTURE UTILITY BUILDING - OVERALL FLOOR PLAN

CASE NO.	008	46471-PCP	
CONTRACT	NO.	C91143	
DRAWING NO.			
(	CUP-04	1	
REVISION	SHEET	NO.	
3	42	) -	
SCALE			_
As	s indic	ated	





	ELEVATION KEYNOTES
MARK	DESCRIPTION
1	STANDING SEAM INSULTATED 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.

1 NORTH ELEVATION

CUP-042 REF: A103

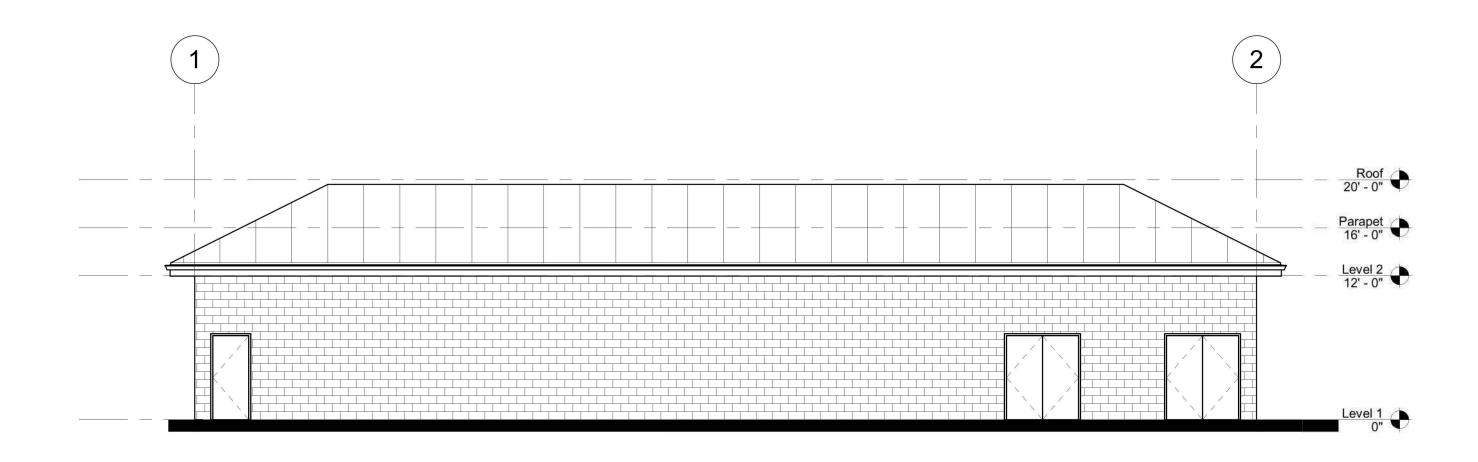
SCALE: 1/8" = 1'-0"

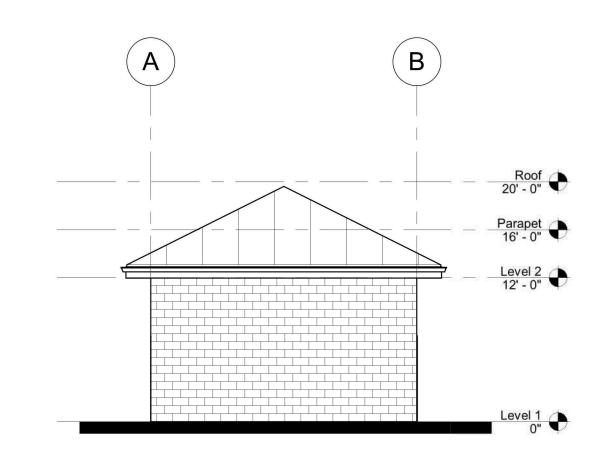
2 EAST ELEVATION

CUP-042 REF: A103

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

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

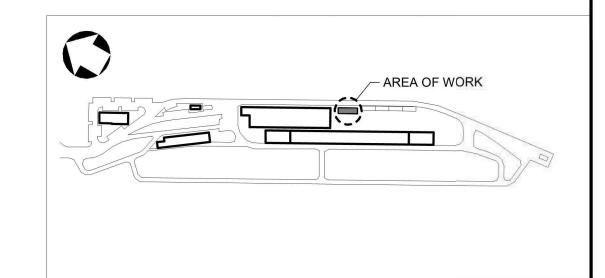




3 SOUTH ELEVATION
CUP-042 REF: A103

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

4 WEST ELEVATION
CUP-042 REF: A103



04/11/2022 CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3
01/05/2022 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2
10/13/2021 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1

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APPROVED:

# METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

ARCHITECTURE
UTILITY BUILDING ELEVATIONS

CASE NO. 00846471-PCPU

CONTRACT NO.

DRAWING NO.

CUP-042

REVISION SHEET NO.

43

SCALE

1/8" = 1'-0"

**BUILDING INFORMATION** 

TRAIN WASH BUILDING - ONE STORY STEEL FRAMED WASH FACILITY FOR TRAIN

CARS WITH WASH BAY AND WASH EQUIPMENT ROOM (UNOCCUPIED).

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

FULLY SPRINKLERED, AUTOMATIC SPRINKLER SYSTEM AND FIRE ALARM

FACTORY GROUP F-1 - MODERATE HAZARD FACTORY INDUSTRIAL (CBC

SYSTEM COMPLYING WITH NFPA-13 (CBC SECTION 903.1.1)

BEARING WALLS (EXTERIOR AND INTERIOR) - 0 HOURS

**BUILDING NAME AND DESCRIPTION:** 

STRUCTURAL FRAME - 0 HOURS

FLOOR CONSTRUCTION - 0 HOURS

OCCUPANCY GROUPS (PER CBC SECTION 302):

ACCESSORY SPACE TO FACTORY GROUP F-1

 ROOF CONSTRUCTION - 0 HOURS ROOF ASSEMBLY - 0 HOURS

**BUILDING SIZE:** 

TYPE 2-B

FIRST FLOOR - 11,110 S.F.

**CONSTRUCTION TYPE:** 

**FIRE PROTECTION:** 

SECTION 306.2)

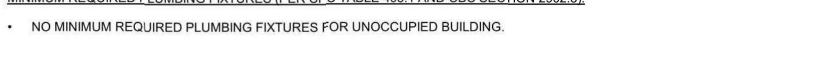
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04/11/2022



APPROVED:



## ALLOWABLE BUILDING HEIGHT AND BUILDING AREA:

OVERHEAD COILING DOOR, TYP.-

256'-0"

256'-0"

MAX DIAGONAL DISTANCE = 192'-0" MIN. REQUIRED EXIT SEPARATION DISTANCE = 64'-0"

218'-4"

- TYPE 2B CONSTRUCTION, OCCUPANCY GROUP F-1 • 55'-0" ALLOWABLE BUILDING HEIGHT (PER CBC TABLE 504.3) 62,000 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:

FACTORY GROUP INDUSTRIAL F-1 - 100 FEET

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

FACTORY GROUP INDUSTRIAL F-1 - 250 FEET

#### EXIT SEPARATION DISTANCE (PER CBC SECTION 1007.1.1):

- STORAGE -
- MAX DIAGONAL DIMENSION OF SPACE 192'-1" MIN. REQUIRED EXIT SEPARATION DISTANCE (SPRINKLERED BUILDING) - 1/3 x 192'-1"

#### MAXIMUM OCCUPANT LOAD FACTORS (PER CBC TABLE 1004.5):

- INDUSTRIAL 100 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 = 1,111 SF ELEC. ROOM = 442 SF < 1,111 SF</li>

#### OCCUPANT LOAD CALCULATIONS (PER CBC TABLE 1004.5):

- INDUSTRIAL 7,168 SF / 100 SF = 72 OCCUPANTS ACCESSORY ELEC. ROOM - 442 SF / 300 SF = 2 OCCUPANTS INDUSTRIAL STORAGE AREA - 3,450 SF / 100 SF = 35 OCCUPANTS
- BUILDING WILL BE UNOCCUPIED.

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

#### **FLOOR PLAN NOTES**

- 1 MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE. 2 DIMENSIONS AT CMU WALLS ARE TO THE FACE OF CMU UNLESS NOTED
- 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 ON ONE OR BOTH SIDES.
- 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**

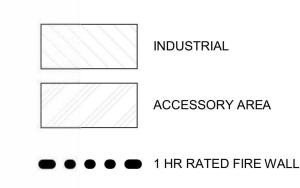
RECLAMATION

TRAIN WASH

**ELECTRICAL** 

- 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
- 9 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. 10 SEE CIVIL DRAWINGS FOR CONCRETE PADS AND BOLLARD LOCATIONS AT EXTERIOR DOORS.
- 11 SEE INDUSTRIAL DRAWINGS FOR EQUIPMENT

## **DRAWING LEGEND**





- AREA OF WORK

# METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

ARCHITECTURE TRAIN WASH BUILDING - OVERALL FLOOR PLAN CASE NO. 00846471-PCPL CONTRACT NO. C91143 DRAWING NO. CUP-043 REVISION SHEET NO. SCALE As indicated

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 CLOSED PIPING SYSTEM CONTAINING FLAMMABLE OR COMBUSTIBLE LIQUID GASES UTILIZED FOR THE OPERATION OF MACHINERY OR EQUIPMENT. CLEANING ESTABLISHMENTS THAT UTILIZE COMBUSTIBLE LIQUID SOLVENTS HAVING A FLASH POINT OF 140°F OR HIGHER IN CLOSED SYSTEMS

**EQUIPMENT** 

EMPLOYING EQUIPMENT LISTED BY AN APPROVED TESTING AGENCY, PROVIDED THAT THIS OCCUPANCY IS SEPARATED FROM ALL OTHER AREAS OF THE BUILDING BY 1-HOUR FIRE BARRIERS CONSTRUCTED IN ACCORDANCE WITH SECTION 707.

37'-8"

FIRST FLOOR PLAN

RAILS, TYP.

 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.

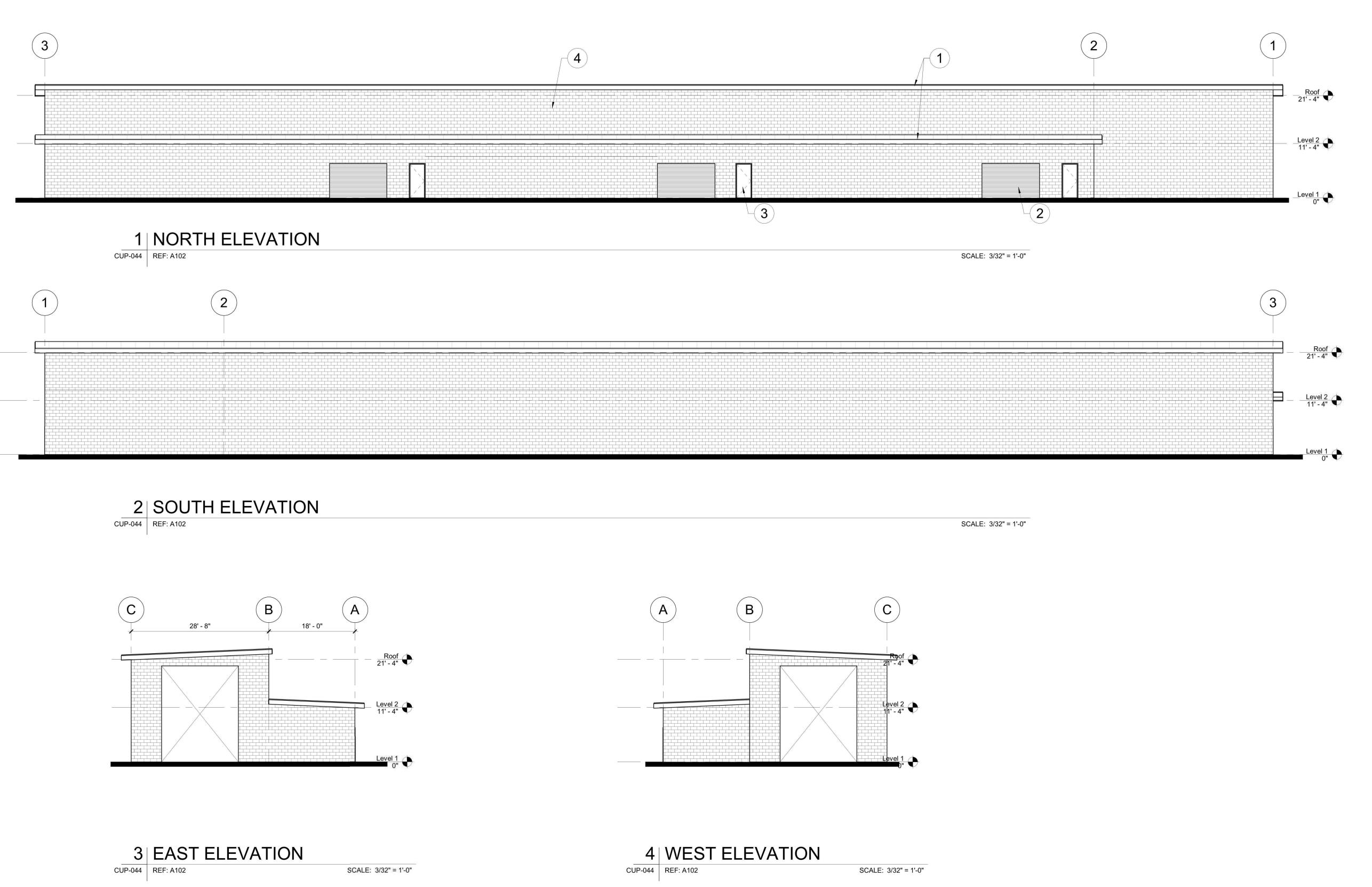
OTHERWISE.

5 PROVIDE LINTELS 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,

**DESIGNED BY JML JML** RW RW

CONSTRUCTION



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CONSTRUCTION

04/11/2022

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AND SHALL NOT BE USED FOR

ANY PURPOSE NOT PROVIDED

FOR IN AGREEMENTS WITH THE

REGIONAL RAIL AUTHORITY.

SOUTHERN CALIFORNIA

04/11/2022 CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3

10/13/2021 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 1

06/30/2021 CONDITIONAL USE PERMIT SUBMITTAL

01/05/2022 CONDITIONAL USE PERMIT SUBMITTAL - REVISION 2

METROLINK

APPROVED:

ဳ Gannett Fleming

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

AREA OF WORK

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"

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

1. MAX. DIAGONAL DIMENSION OF SPACE = 33'-4"

2. MIN. REQUIRED EXIT SEPARATION DISTANCE (NON-SPRINKLERED

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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) 1. 10% OF TOTAL BUILDING AREA = 75 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

ELEC. ROOM = 43 SF < 74 SF</li>

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

 NO MINIMUM REQUIRED PLUMBING FIXTURES FOR UTILITY GROUP U OCCUPANCY.

#### **FLOOR PLAN NOTES**

13'-9"

14'-0"

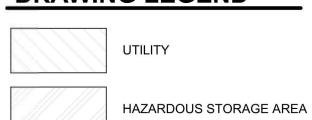
−METAL FLOOR GRATING @ EL. 0'-0". CONTAINMENT PIT BELOW @ EL. -5'-6"

- 1 MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE. 2 DIMENSIONS AT CMU WALLS ARE TO THE FACE OF CMU UNLESS NOTED
- 3 DIMENSIONS AT INTERIOR STUD WALLS ARE TO THE CENTERLINE OF STUD UNLESS NOTED OTHERWISE.
- ON ONE OR BOTH SIDES.
- 5 PROVIDE LINTELS FOR OPENINGS IN MASONRY WALLS INCLUDING BUT NOT LIMITED TO OPENINGS FOR DOORS, WINDOWS, LOUVERS, AND
- AND FLOOR HATCHES IN FINISHED FLOOR AREAS ONLY. REFER TO DRAINS, AND FLOOR HATCHES IN NON-FINISHED FLOOR AREAS.

#### **FLOOR PLAN NOTES**

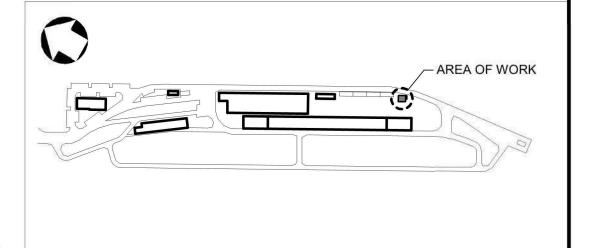
- 7 THE INSIDE EDGE OF DOOR FRAMES SHALL BE SET 6" CLEAR FROM THE FINISH FACE OF THE ADJACENT PERPENDICULAR PARTITION UNLESS OTHERWISE DIMENSIONED.
- 8 PROVIDE SUFFICIENT BLOCKING INSIDE THE WALLS FOR INSTALLATION OF CASEWORK, TOILET ACCESSORIES, PROJECTOR BRACKETS, PROJECTION SCREENS, MARKER BOARDS, TACK BOARDS, CHALK BOARDS, TELEVISION BRACKETS, AND ALL OTHER WALL MOUNTED EQUIPMENT.
- 9 TACK BOARDS, MARKER BOARDS, AND TELEVISION BRACKETS SHOWN ON PLAN 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 SEE INDUSTRIAL DRAWINGS FOR EQUIPMENT

#### DRAWING LEGEND



● ● ● ■ 1 HR RATED FIRE WALL







METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

> ARCHITECTURE PUMP HOUSE - OVERALL FLOOR PLAN

CASE NO.	0084	6471-PCPU
CONTRACT	NO.	C91143
DRAWING N	О.	
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SCALE		
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DESIGNED BY

CHECKED BY

04/11/2022

**JML** 

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> FOR **REVIEW** ONLY NOT FOR CONSTRUCTION

METROLINK **Example 1 Example 2 Example 3 Example 3 Example 4 Example 5 Example 5 Example 6 Example 6 Example 7 Examp** SUBMITTED: PROJECT MANAGER APPROVED:

 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

PUMP HOUSE BUILDING - ONE STORY BUILDING MADE OF CMU WITH FUEL

SUPPLY INFLOW FROM ABOVE GROUND TANKS AND FUEL SUPPLY OUTFLOW

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

**BUILDING INFORMATION** 

**BUILDING NAME AND DESCRIPTION:** 

**BUILDING SIZE:** 

TYPE 2-B

FIRST FLOOR - 750 S.F.

**CONSTRUCTION TYPE:** 

NEARLY RESEMBLES:

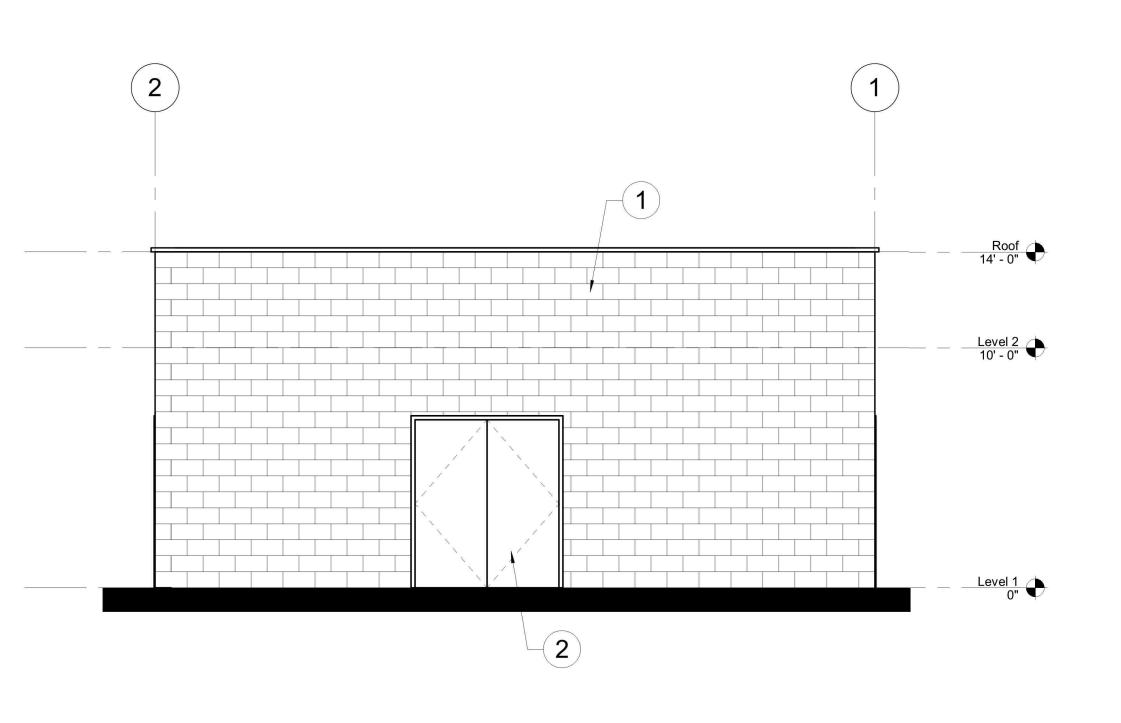
HANDLES HAZARDOUS MATERIALS AS DESCRIBED SHALL NOT BE CLASSIFIED AS GROUP H, BUT SHALL BE CLASSIFIED AS THE OCCUPANCY THAT IT MOST

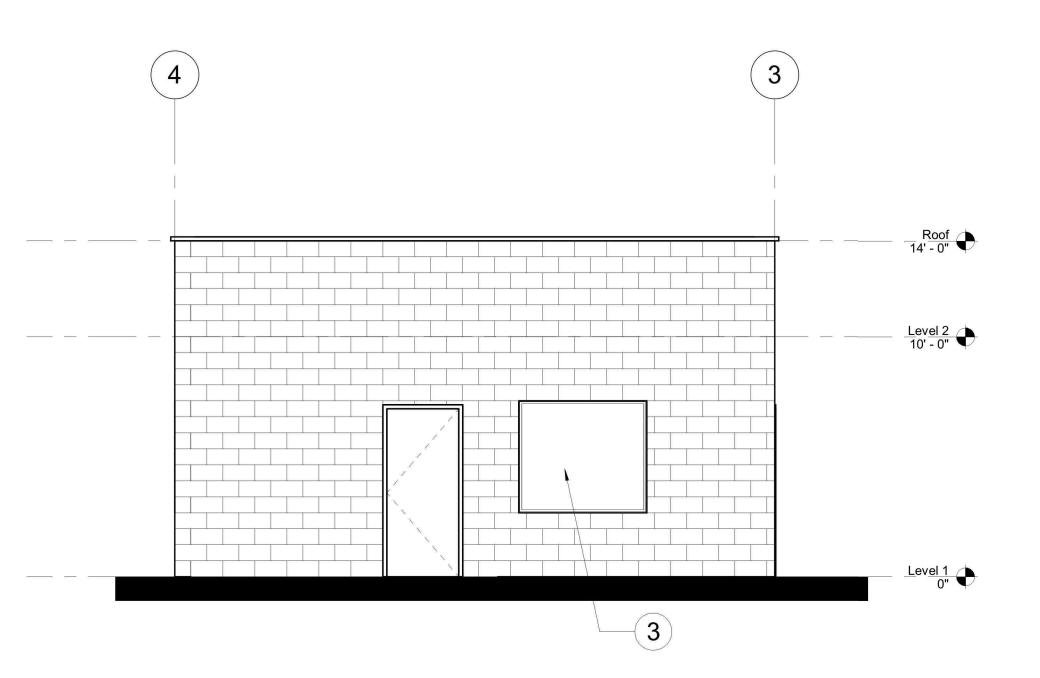
CLOSED PIPING SYSTEM CONTAINING FLAMMABLE OR COMBUSTIBLE LIQUIDS OR GASES UTILIZED FOR THE OPERATION OF MACHINERY OR EQUIPMENT.

# OTHERWISE.

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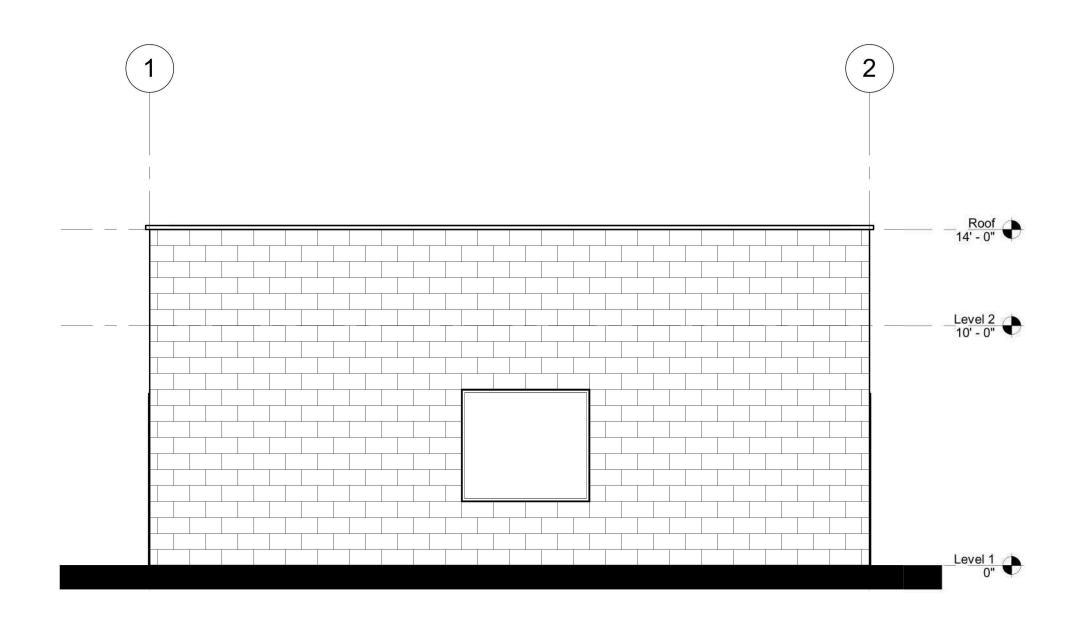
MECHANICAL AND ELECTRICAL PENETRATIONS. 6 ARCHITECTURAL DRAWINGS SHOW FLOOR DRAINS, TRENCH DRAINS, STRUCTURAL AND PLUMBING DRAWINGS FOR FLOOR DRAINS, TRENCH





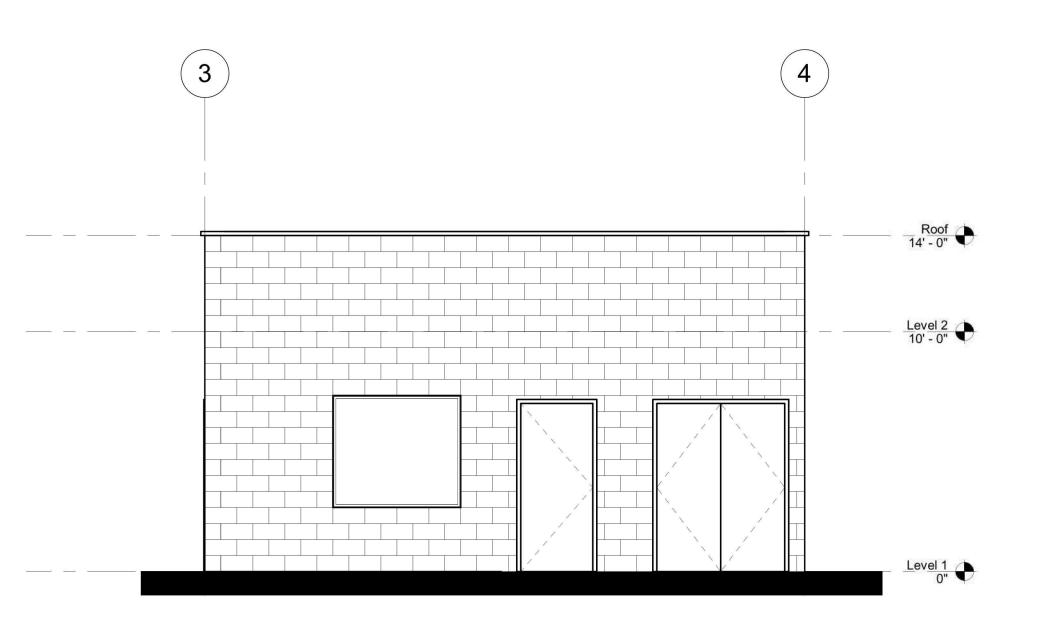
ELEVATION KEYNOTES			
MARK	DESCRIPTION		
1	CMU OR CONCRETE PANEL WALL, IN STANDARD GREY COLOR. COLOR SELECTION TO BE FINALIZED IN FUTURE DISCUSSIONS		
2	HOLLOW METAL DOOR, TYP.		
3	ALUMINUM WINDOW, TYP.		





2 EAST ELEVATION

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



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

AREA OF WORK

3 SOUTH ELEVATION

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

4 WEST ELEVATION

CUP-046 REF: A201

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🙇 Gannett Fleming	SUBMITTED:PROJECT MANAGER
	APPROVED:

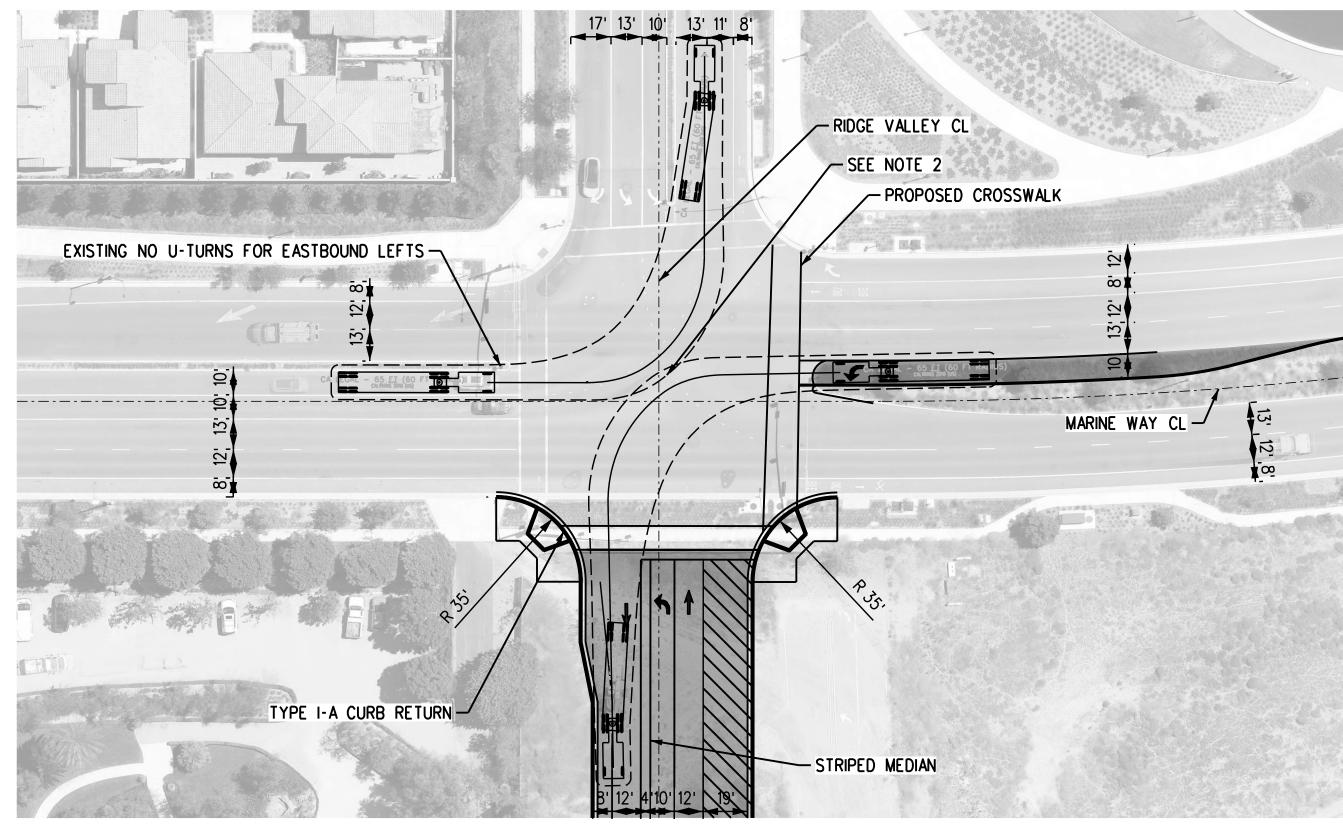
METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

ARCHITECTURE
PUMP HOUSE BUILDING ELEVATIONS

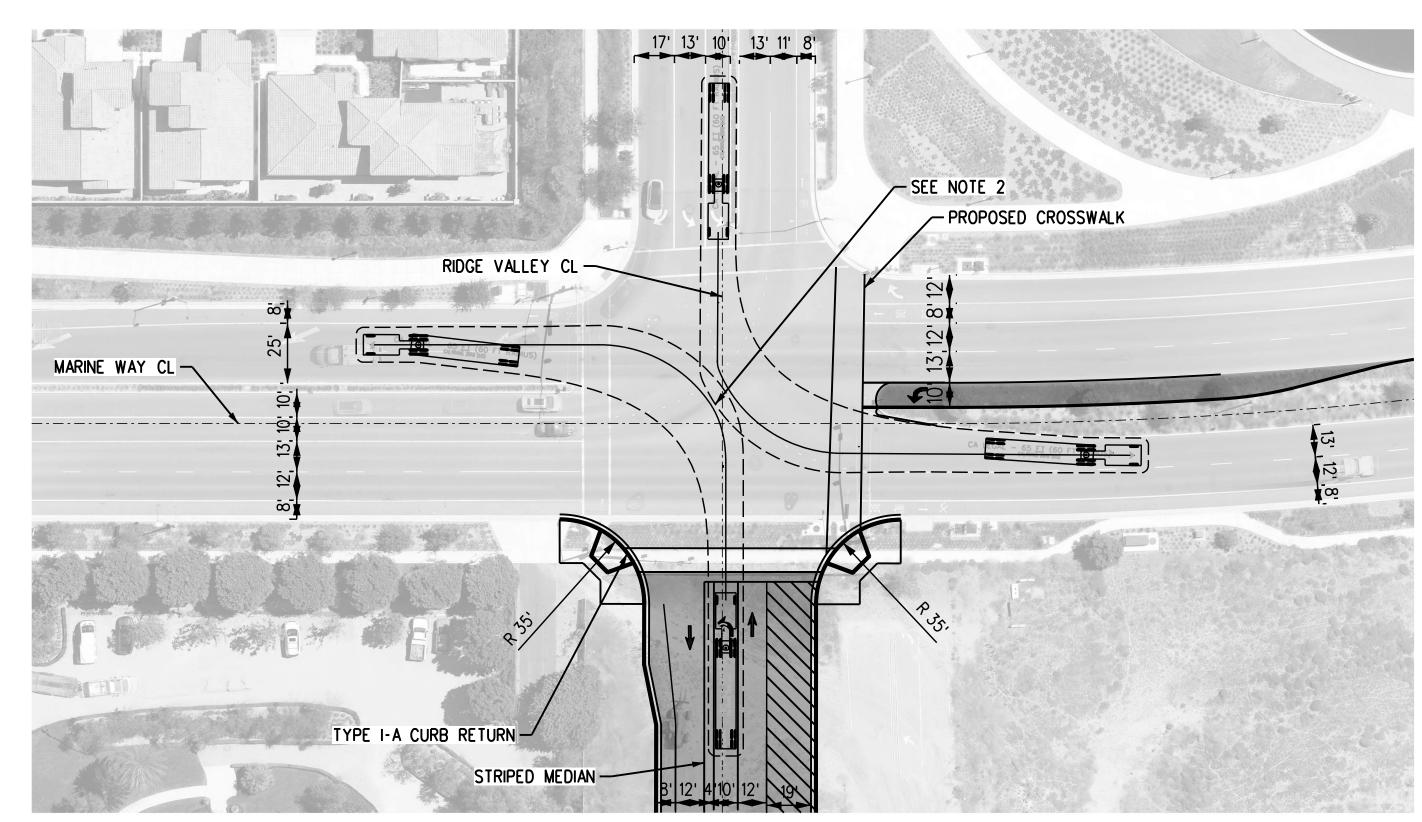
CASE NO. 00846471-PCPU
CONTRACT NO.
DRAWING NO.
CUP-046
REVISION SHEET NO.
47
SCALE

1/4" = 1'-0"

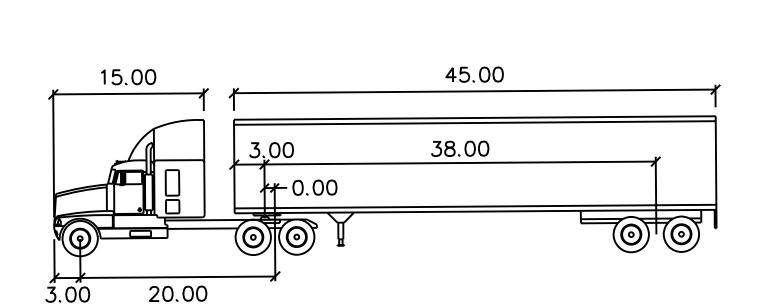
MARINE WAY AND RIDGE VALLEY INTERSECTION EASTBOUND AND SOUTHBOUND RIGHT TURNS



MARINE WAY AND RIDGE VALLEY INTERSECTION NORTHBOUND AND SOUTHBOUND LEFT TURNS



MARINE WAY AND RIDGE VALLEY INTERSECTION EASTBOUND AND WESTBOUND LEFT TURNS



CA LEGAL - 65 FT (60 FT RADIUS)

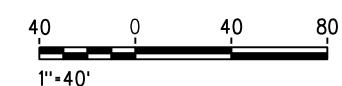
TRACTOR WIDTH TRAILER WIDTH TRACTOR TRACK TRAILER TRACK

LOCK TO LOCK TIME : 6.0 STEERING ANGLE : 20.9 ARTICULATING ANGLE : 70.0

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.



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REV.	DATE		BY SUB. APP.	Rail Authority.	

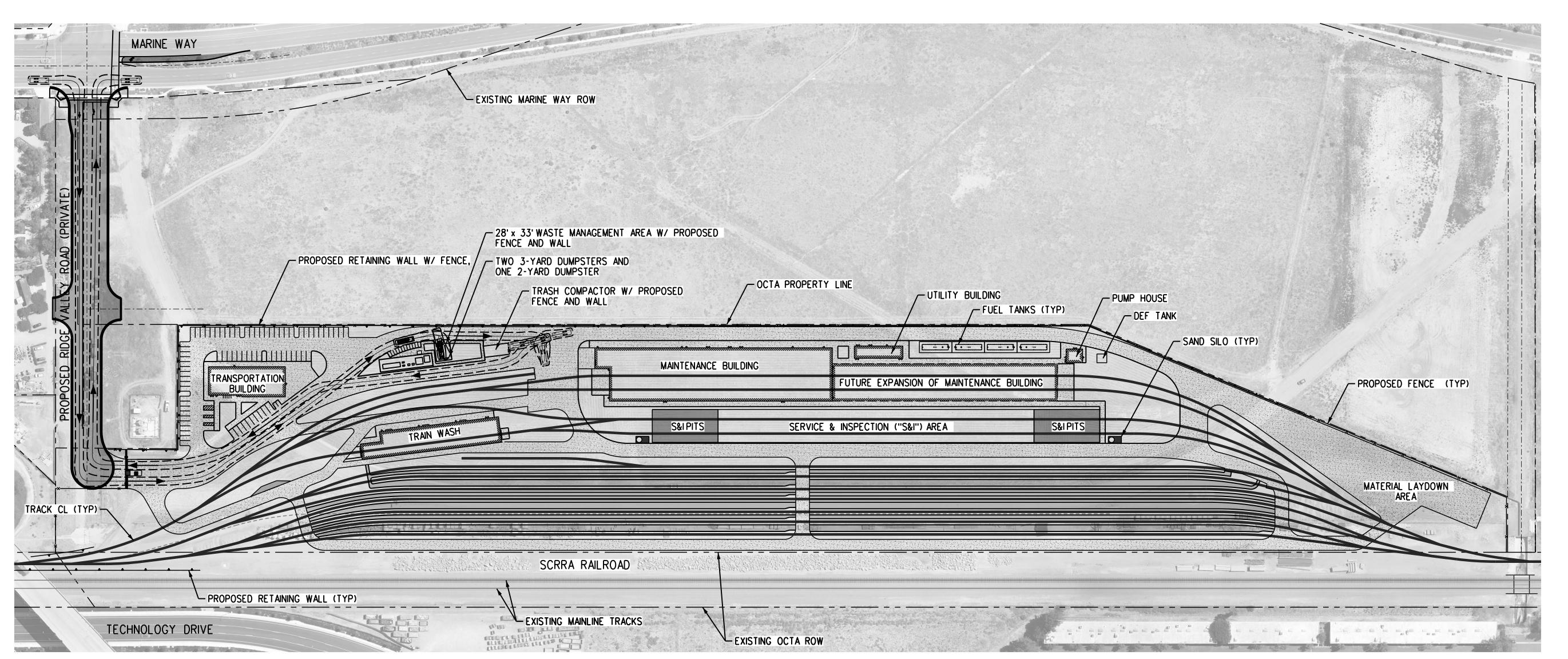
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APPROVED BY		
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CHECKED BY		FOR
	P. NGUYEN	
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	D. SMITH	
DESIGNED BY		

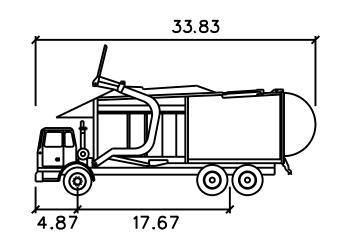


METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT GENERAL AUTOTURN LAYOUT PLANS MARINE WAY AND RIDGE VALLEY

CASE NO.	00846471-PCPU
CONTRACT	NO. <b>C91143</b>
DRAWING N	CUP-047
REVISION 3	SHEET NO. 48
SCALE	AS SHOWN

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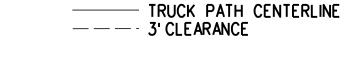




## WAYNE TITAN

BY SUB. APP.

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



**→** DIRECTION OF TRAVEL

1''=100'

## NOTES:

- 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.
- REFER TO CUP-011 FOR ADDITIONAL DETAILS ON WASTE MANAGEMENT AREA.

  4. ALL PAVED SURFACES, INCLUDING ANY ENHANCED PAVEMENT AREAS THAT MAY BE PLANNED,
- 4. ALL PAVED SURFACES, INCLUDING ANY ENHANCED PAVEMENT AREAS THAT MAY BE PLANNED, MUST BE DESIGNED TO ACCOMODATE 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 FREQUENCE OF WASTE COLLECTION AT THE PROPERTY AS NECCESSARY TO ELIMINATE OVERFLOW PROBLEM. A WASTE HAULER MAY CHARGE ADDITIONAL FEES IF A WASTE TRUCK CANNOT COVENIENTLY ACCESS A TRASH COLLECTION AREA AND MUST MANUALLY MOVE A BIN AN EXTRAORDINARY DISTANCE FROM AN ENCLOSURE TO EMPTY IT.

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0	6/30/21	CONDITIONAL USE PERMIT SUBMITTAL	for in agreements with the Southern California Regional	DATE

04/11/2022	
BY M. FREEMAN	
y J. NEFF	FOR CONSTRUCTION
P. NGUYEN	NOT
D. SMITH	

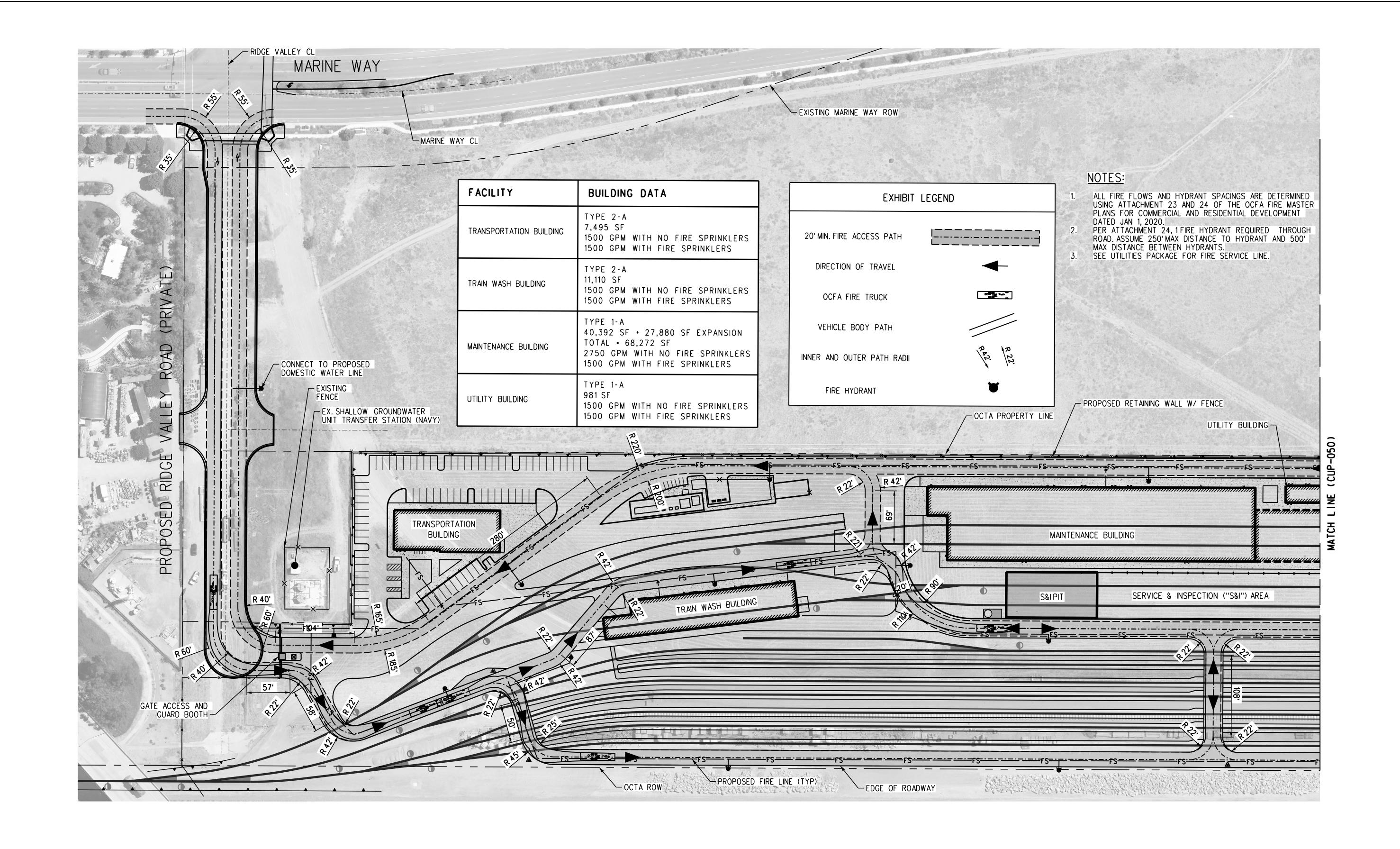
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<b>Gannett Fleming</b>	SUBMITTED:PROJECT MANAGER
	APPROVED:

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

CASE NO.	00846471-PCPU
CONTRACT	NO. <b>C91143</b>
DRAWING N	CUP-048
REVISION	SHEET NO.
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SCALE	AS SHOWN
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Southern California Regional	DATE
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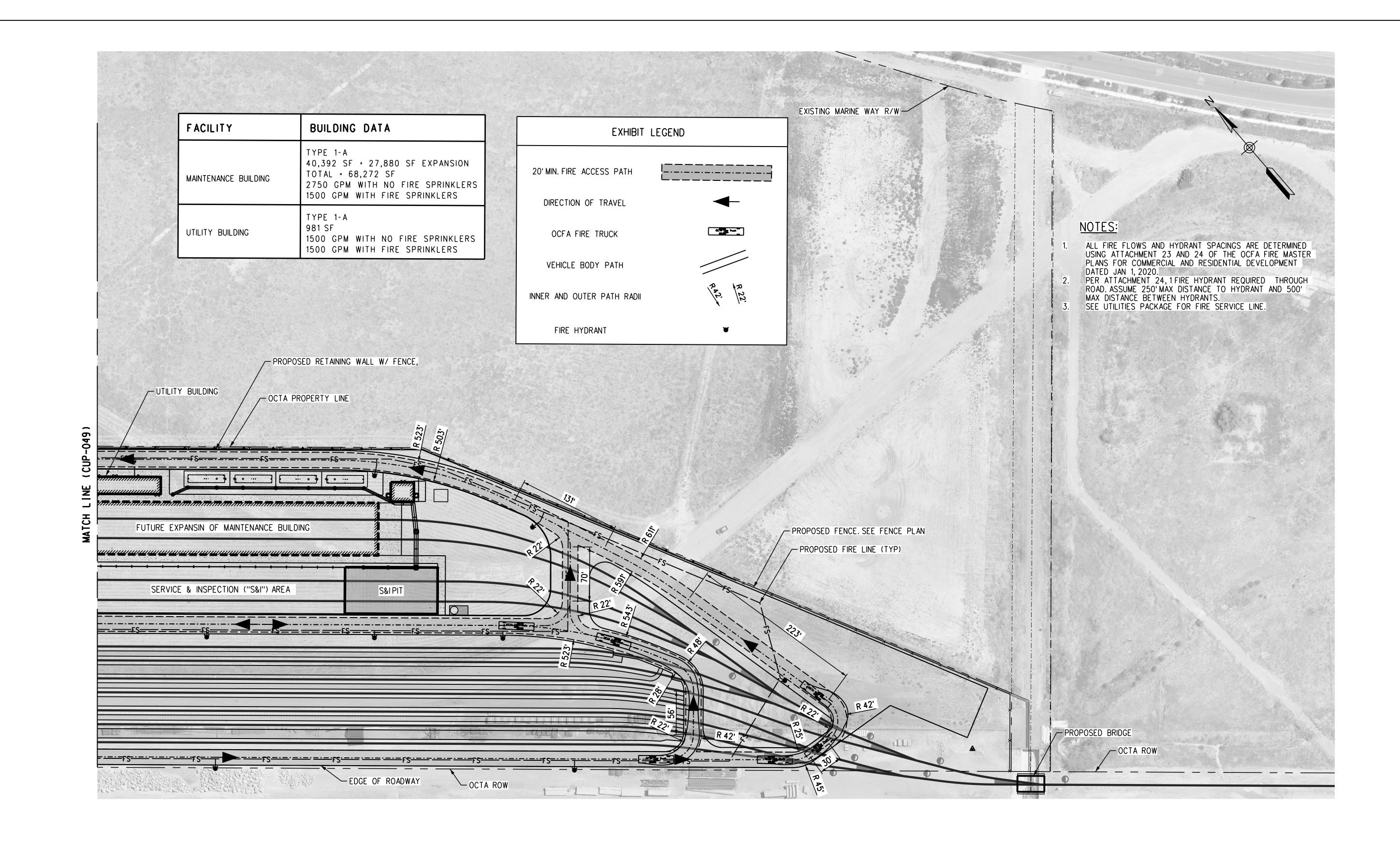
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<b>Gannett Fleming</b>	SUBMITTED:	PROJECT MANAGER
	APPROVED:	

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

CASE NO.	00846471-PCPI
CONTRACT	NO. <b>C91143</b>
DRAWING N	CUP-049
REVISION	SHEET NO.
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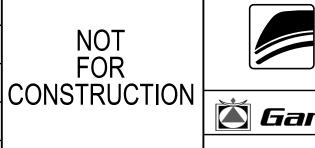
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DATE DESIGNED BY D. SMITH P. NGUYEN CHECKED BY J. NEFF APPROVED BY M. FREEMAN 04/11/2022



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<b>Gannett Fleming</b>	SUBMITTED:PROJECT MANAGER
	APPROVED:

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

CASE NO.	00846471-PCPU
CONTRACT	NO. <b>C91143</b>
DRAWING N	CUP-050
REVISION	SHEET NO.
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SCALE	AS SHOWN

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APPROVED:

**Gannett Fleming** 

SUBMITTED: \_\_\_\_\_\_PROJECT\_MANAGER\_\_\_\_

CONTRACT NO.

REVISION | SHEET NO.

DRAWING NO.

SCALE

METROLINK ORANGE COUNTY

MAINTENANCE FACILITY PROJECT

COMPOSITE PLANS OF

UTILITY REARRANGEMENT

SHEET 1 OF 4

C91143

CUP-051

AS SHOWN

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DESIGNED BY

CHECKED BY

PPROVED BY

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J. NEFF

D. SALAZAR

M. FREEMAN

04/11/2022

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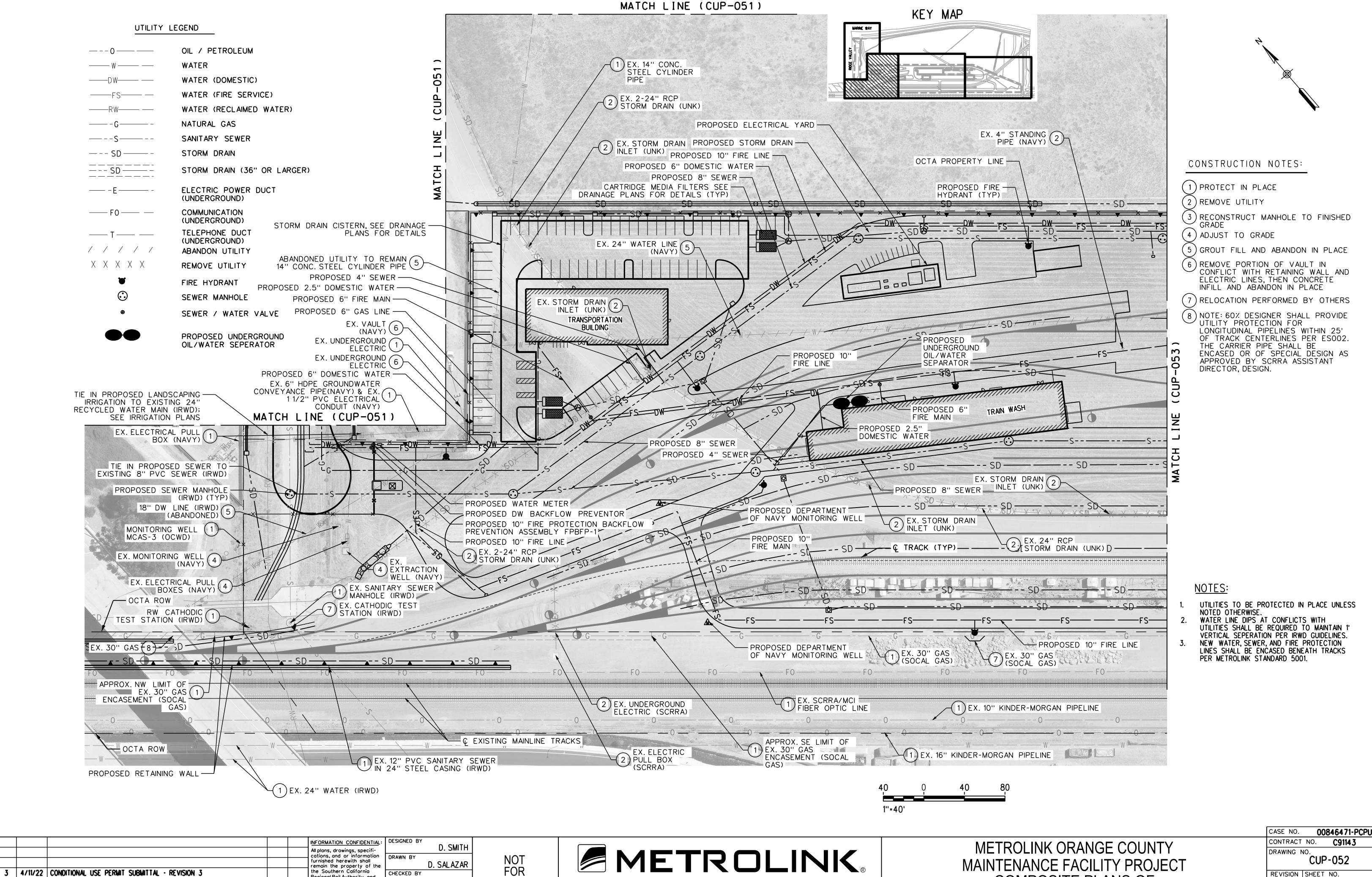
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0 6/30/21 CONDITIONAL USE PERMIT SUBMITTAL

REV. DATE



SUBMITTED: \_\_\_\_\_\_PROJECT MANAGER\_\_

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0 6/30/21 CONDITIONAL USE PERMIT SUBMITTAL

REV. DATE

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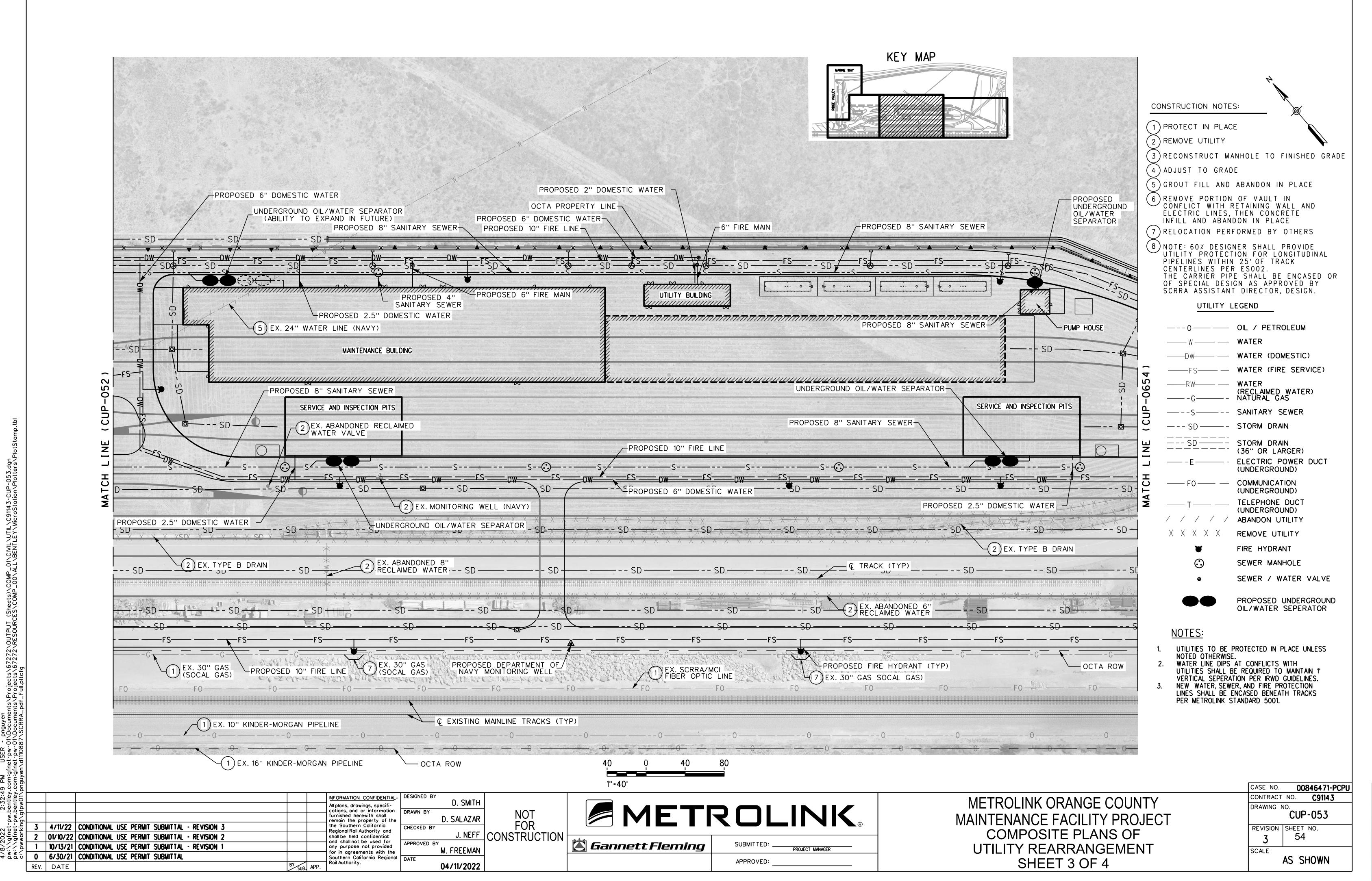
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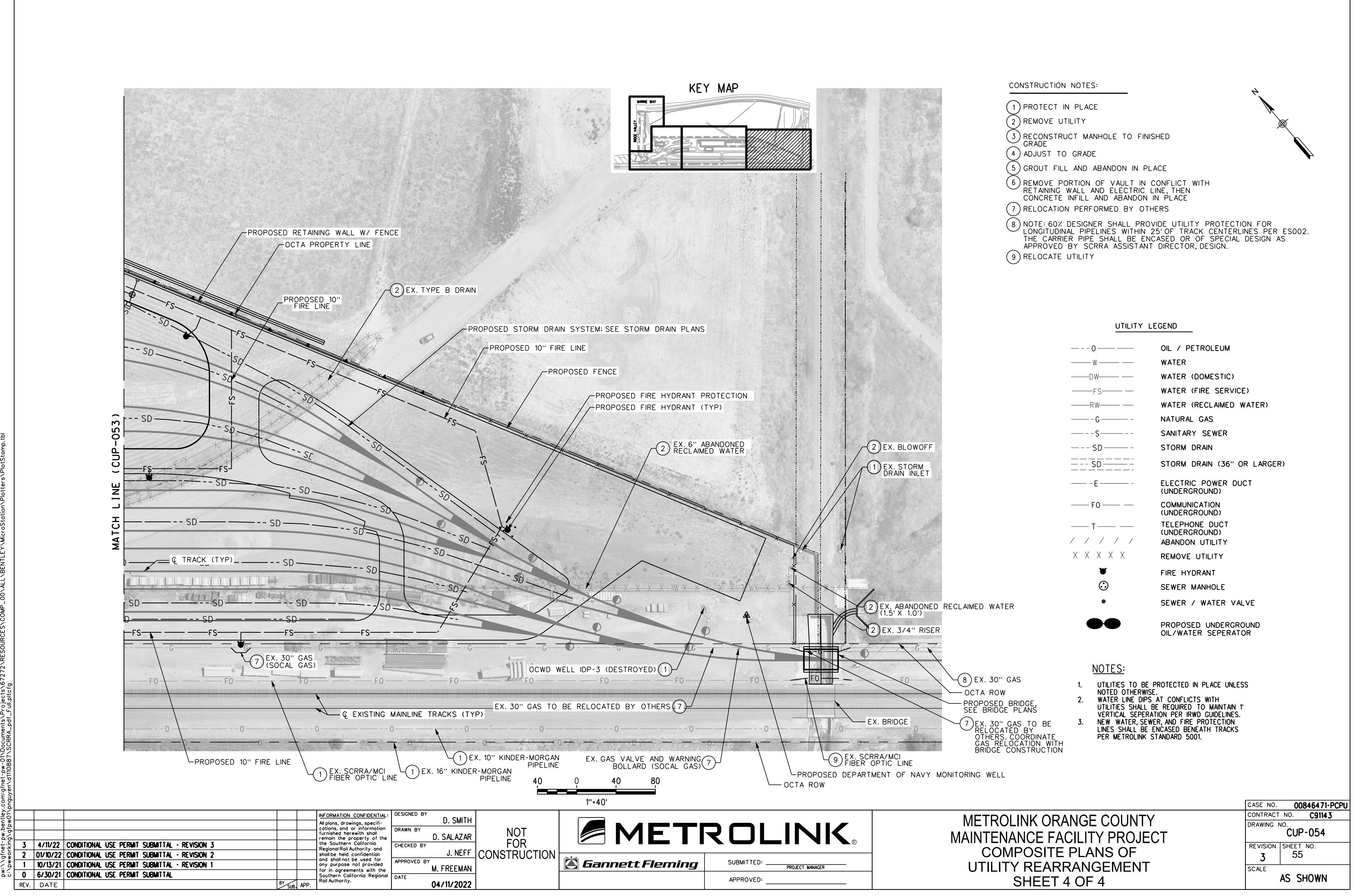
**Gannett Fleming** 

COMPOSITE PLANS OF UTILITY REARRANGEMENT

SHEET 2 OF 4

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# MAINTENANCE BUILDING INDUSTRIAL EQUIPMENT SCHEDULES

												FACI	ILITIE	S SHOP											
			SUPPLIED			ELEC	CTRICAL DA	TA		ELECTRICAL	PLUG	COMPRESSED		WATER	VENT	VENT	GAS	DRAIN	DRAIN	PHONE	SIZE			EQUIP	
MARK	TYPE	STATUS	BY	QTY	VOLTS	PHASE	HERTZ	AMP	HP	COMMENTS	REQ'D	AIR	FLR	(GPM)	REQ'D	CFM	(MBH)	REQ'D	SIZE	LINE	(WxDxH)	WEIGHT	DESCRIPTION	CLEARANCE	COMMENTS
	AVY DUTY WORKBENCH WITH VISE - 30"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	
	ICH GRINDER WITH DUST LLECTOR	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	NCH 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 BE	T/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 OX	Y-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 ST	DRAGE 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	
	MMABLE MATERIAL CABINET - k18"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	
1				•		•		•	•	•	<u> </u>	PAR	TS ST	ORAGE		•	•	·	·	·		•	•	•	<u> </u>

												PAR	RISSI	ORAGE										
			SUPPLIED	1			TRICAL DA	_		ELECTRICAL	PLUG	COMPRESSED		WATER	VENT	VENT	GAS	DRAIN	DRAIN	PHONE	SIZE		EQUIP	
MARK	TYPE	STATUS	BY	QTY	VOLTS	PHASE	HERTZ	AMP	HP	COMMENTS	REQ'D	AIR	FLR	(GPM)	REQ'D	CFM	(MBH)	REQ'D	SIZE	LINE	(WxDxH)	WEIGHT DESCRIPTION	CLEARANCE	COMMENTS
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		

1 3-10	DOOK LII T	IN IN	0101		+00 V		1 00112	U //		TIVV VV/ 24V GOIVIT(GEG	140		110	0	1 110	1 0 01 W		110	1 0		12 7 0	1	DEOL OIANT EQUIT WENT CONT. DOON EILT		
												REF	PAIR T	RACKS											
		1	SUPPLIED	1			CTRICAL DA			ELECTRICAL	PLUG	COMPRESSED		WATER	VENT	VENT	GAS	DRAIN	DRAIN	PHONE	SIZE			EQUIP	Τ
MARK	TYPE	STATUS	ВҮ	QTY	VOLTS	PHASE	HERTZ	AMP	HP	COMMENTS	REQ'D	AIR	FLR	(GPM)	REQ'D	CFM	(MBH)	REQ'D	SIZE	LINE	(WxDxH)	WEIGHT	DESCRIPTION	CLEARANCE	COMMENTS
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	3 BELOW TRUSS	

#### SCHEDULE LEGEND:

OFCD OWNER FURNISHED / CONTRACTOR DEMOLISH
OFOI OWNER FURNISHED / OWNER INSTALLED
CFCI CONTRACTOR FURNISHED / CONTRACTOR INSTALLED

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				SOUTHERN CALIFORNIA
04/11/2022	CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3			REGIONAL RAIL AUTHO
DATE	DESCRIPTION	BY	APP	1

NGS, SPECIFI-NFORMATION /ITH SHALL ERTY OF THE TPK CHECKED BY TMD Approver 04/11/2022

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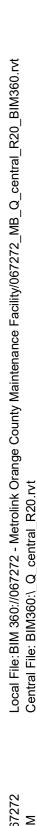


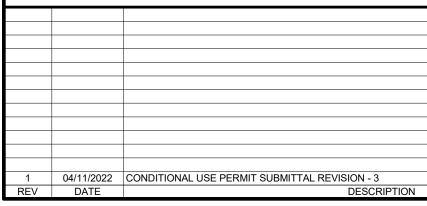
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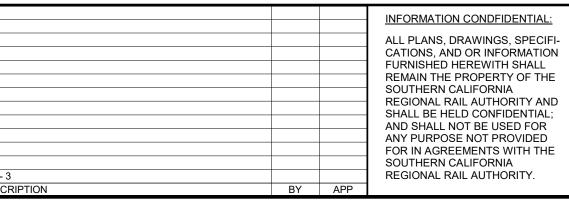
# METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

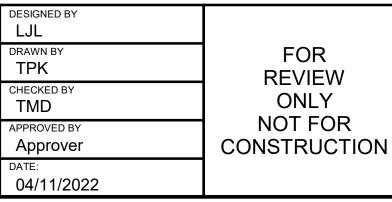
INDUSTRIAL MAINTENANCE BUILDING EQUIPMENT SCHEDULE

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











METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT

INDUSTRIAL
MAINTENANCE BUILDING PLATFORM LEVEL PLAN

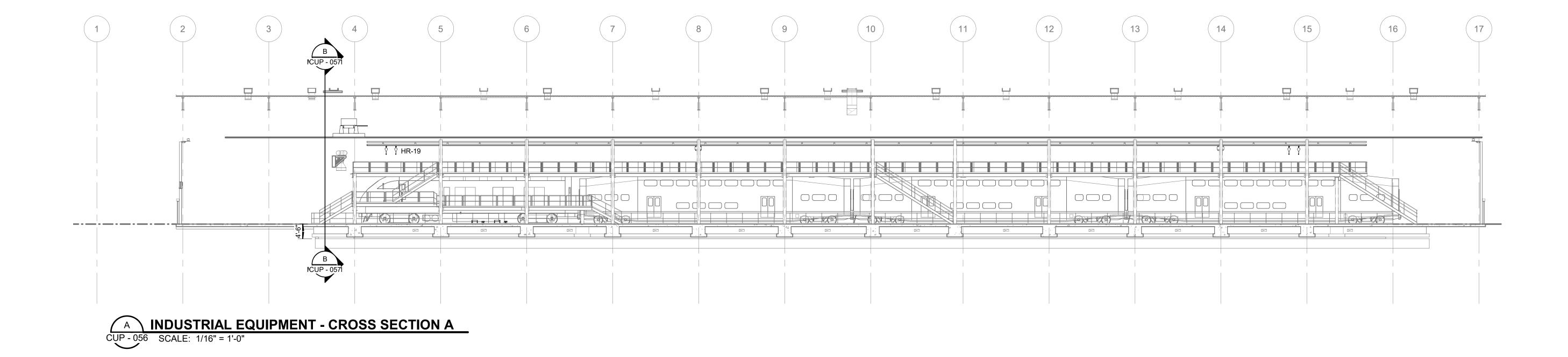
CASE NO. 00846471-PCPU
CONTRACT NO.
DRAWING NO.
CUP - 056
REVISION SHEET NO.
1 57
SCALE
AS INDICATED

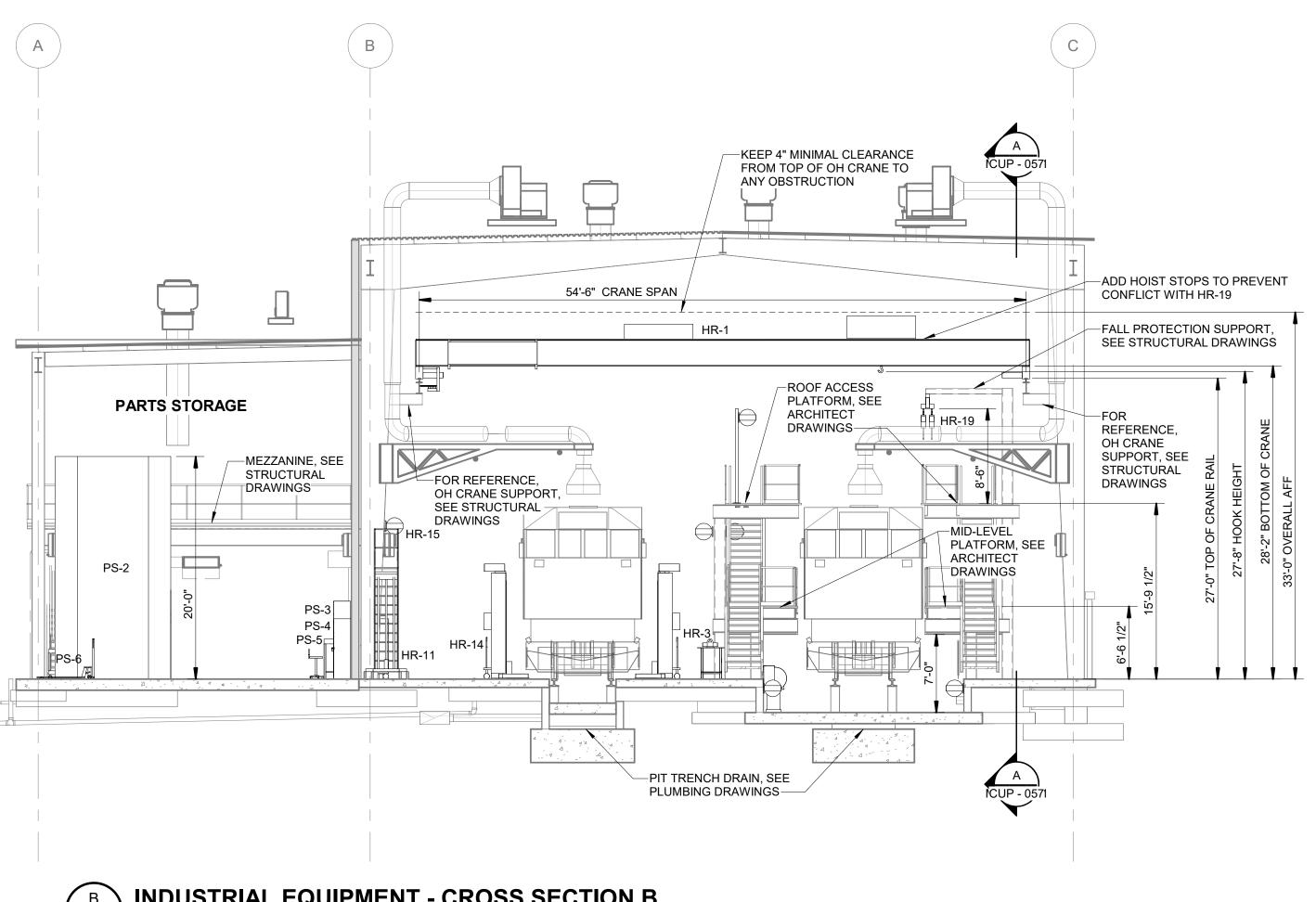
1 2 3 CUP	B 4 5 6 7 8 9 10 11 12 13 14 15 NERTICAL LIST MODULES	16
A PS-1	VERTICAL LIFT MODULES 20 HIGH  PS-2 PS-2 PS-2 W	
B		
	OH CRANE RAIL  TRAIN MAINTENANCE  BAYS  HR-1	
LARGE COMPONENT OH CRANE DROP-OFF AREA	HR-15  CUP - 057 Sim  SEE PLUMBING DRAWINGS	
C CUP - 057	HR-15 HSE BIBB OH CRANE RAIL	A CUP - 057
	AIR STATION WITH FLR AND HOSE BIBB SEE PLUMBING DRAWINGS (TYP. 4)  CUP - 057	

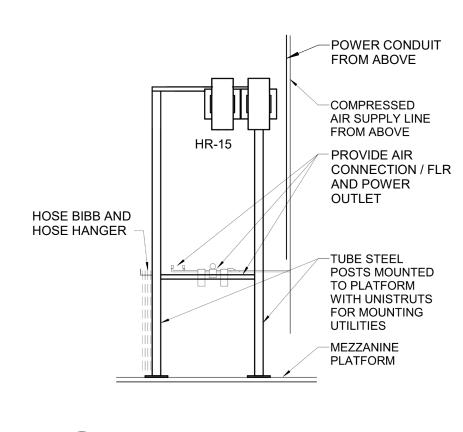
INDUSTRIAL EQUIPMENT - OVERALL PLATFORM LEVEL PLAN

CUP - 056 SCALE: 1/16" = 1'-0"

04/11/2022 CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3







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

APPROVED:

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

SHALL BE HELD CONFIDENTIAL; AND SHALL NOT BUT SEED FOR BUT SHALL NOT BUT SHAL	INFORMATION CONDFIDENTIAL:  ALL PLANS, DRAWINGS, SPECIFICATIONS, AND OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF THE SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY AND	DESIGNED BY LJL DRAWN BY TPK CHECKED BY TMD	FOR REVIEW ONLY	MET	ROLINK
TOTALOUTE	AND SHALL NOT BE USED FOR	APPROVED BY		<b>Gannett Fleming</b>	

04/11/2022

FOR IN AGREEMENTS WITH THE SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY.

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							

0 V

0 V

CFCI 2 120 V 1

SUPPLIED

BY

CFCI

CFCI

CFCI

CFCI

CF/CI

STATUS

**ELECTRICAL DATA** 

60 Hz

60 Hz

0 Hz

0 Hz

60 Hz

QTY VOLTS PHASE HERTZ AMP HP COMMENTS REQ'D

20 A 0

ELECTRICAL PLUG COMPRESSED

No

No

8 CFM/90 PSI

10 CFM/100 PSI

HW WITH 120V

CONTROL PANEL

**SERVICE AND INSPECTION TRACKS** 

FLR

(GPM) REQ'D VENT CFM (MBH)

0 CFM

0 CFM

0 CFM

0 CFM

0 CFM

0 CFM

DRAIN

REQ'D

DRAIN

SIZE

DATA LINE

LINE SIZE (WxDxH) WEIGHT

40"x36"x80"

8' Dia.x26'-8" for Silo

26"x26"x64"

CLEARANCE COMMENTS

13' AFF BELOW

REEL

DESCRIPTION

SNYDER EQUIPMENT FUEL CRANE W/

KLEIN PALMER SILO, TRANSPORTER,

DUST COLLECTOR, PIPING

GRACO FLUID HOSE REEL

KLEIN PALMER STATIONARY SANDING 3' FRONT AND

FLUIDALL DEF DISPENSING CABINET 3' FRONT

METER ASSEMBLY

STATION

DEFGRDC

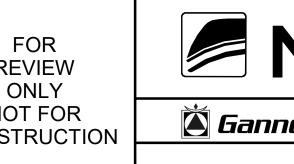
FUEL FORCE

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

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APPROVED:

# METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

INDUSTRIAL S & I TRACK AND FUELING STATION SCHEDULE & NOTES

CASE NO.	00846471-PCPU
CONTRACT	NO.
DRAWING N	o. CUP - 058
REVISION	SHEET NO.
1	59
SCALE	

_K20.rvt		
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MARK

**TYPE** 

SI-4 DEF DISPENSER STATION (NOZZLE, HOSE AND TOTALIZER)

SI-5 FLUID REEL BANK (LUBRICANT, WATER, SOAP, GEAR, AIR)

OFCD OWNER FURNISHED / CONTRACTOR DEMOLISH OFOI OWNER FURNISHED / OWNER INSTALLED

CFCI CONTRACTOR FURNISHED / CONTRACTOR INSTALLED

SI-1 FUEL CRANE DISPENSING SYSTEM

SI-2 SANDING DISPENSER

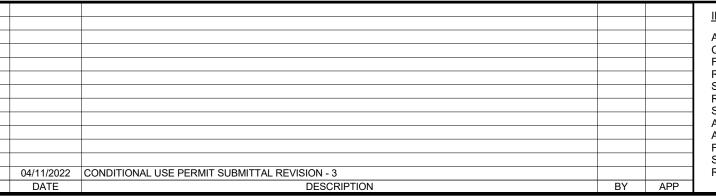
SI-3 SAND SYSTEM / SILO

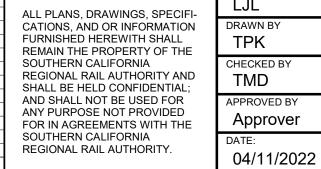
SCHEDULE LEGEND:

E EXISTING

SI-6 FUEL MANAGEMENT SYSTEM







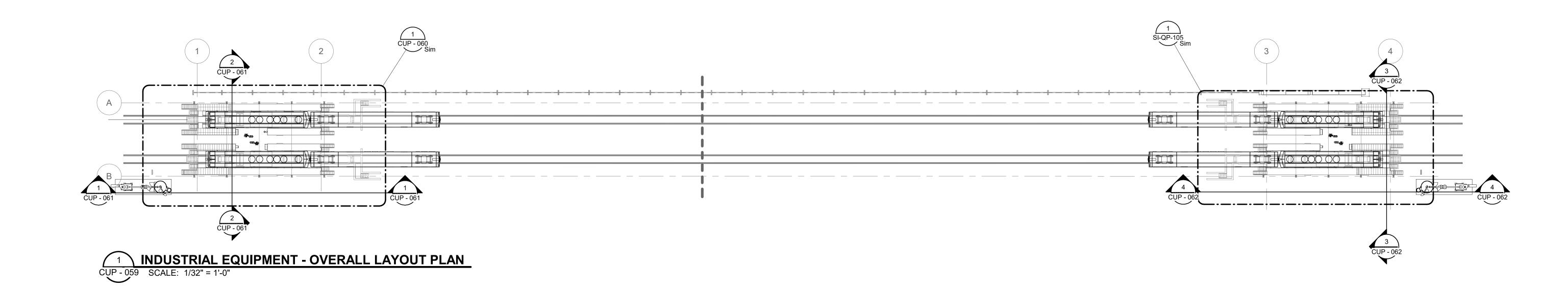
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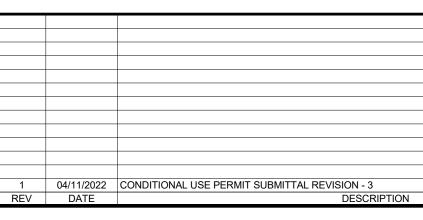
METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

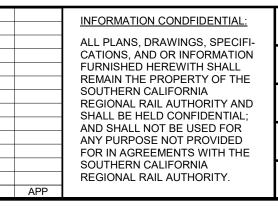
INDUSTRIAL S & I FUELING STATION AND TRACKS OVERALL FLOOR PLAN

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







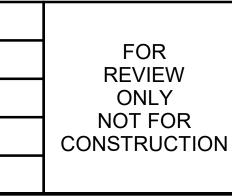


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Approver

04/11/2022



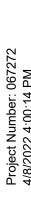




INDUSTRIAL S & I FUELING STATION PARTIAL PLAN - PLATFORM (NORTH)

CASE NO.	00846471-PCF
CONTRACT	NO.
DRAWING N	O.
C	CUP - 060
REVISION	SHEET NO.
1	61
SCALE	
AS	INDICATED

	CUP - 061	BI-LEVEL CONTINUOUS PLATFORM - 78" ON FRONT END AND 64" ON REAR END OF LOCOMOTIVE (TYP. BOTH SIDES)	PIPE BRIDGE BY OTHERS (TYP.)
A — — — — — — — — — — — — — — — — — — —	REMOVABLE ACCESS RAMP (TYP.)	OF LOCOMOTIVE (TYP. BOTH SIDES)	
	SI-1	SI-2 FORM (REAR END O	DE
	78" PLATFORM (FRONT END OF LOCOMOTIVE) TYP. BOTH TRACKS	64" PLATFORM (REAR END C LOCOMOTIVE) TYP. BOTH TI	RACKS
PIPE BRID OTHERS (	YP.)		
B SI-3	FOR SAND SYSTEM PIPING, REFER TO PLUMBING DRAWINGS AND MANUFACTURER'S SHOP DRAWINGS		
j61	TIAL PLAN - PLATFORM (NORTH)		



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

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SUBMITTED: PROJECT MANAGER

APPROVED:

METROLINK ORANGE COUNTY
MAINTENANCE FACILITY PROJECT

INDUSTRIAL
S & I FUELING STATION SECTIONS AND DETAILS

CASE NO. 00846471-PCPU

CONTRACT NO.

DRAWING NO.

CUP - 061

REVISION SHEET NO.

1 62

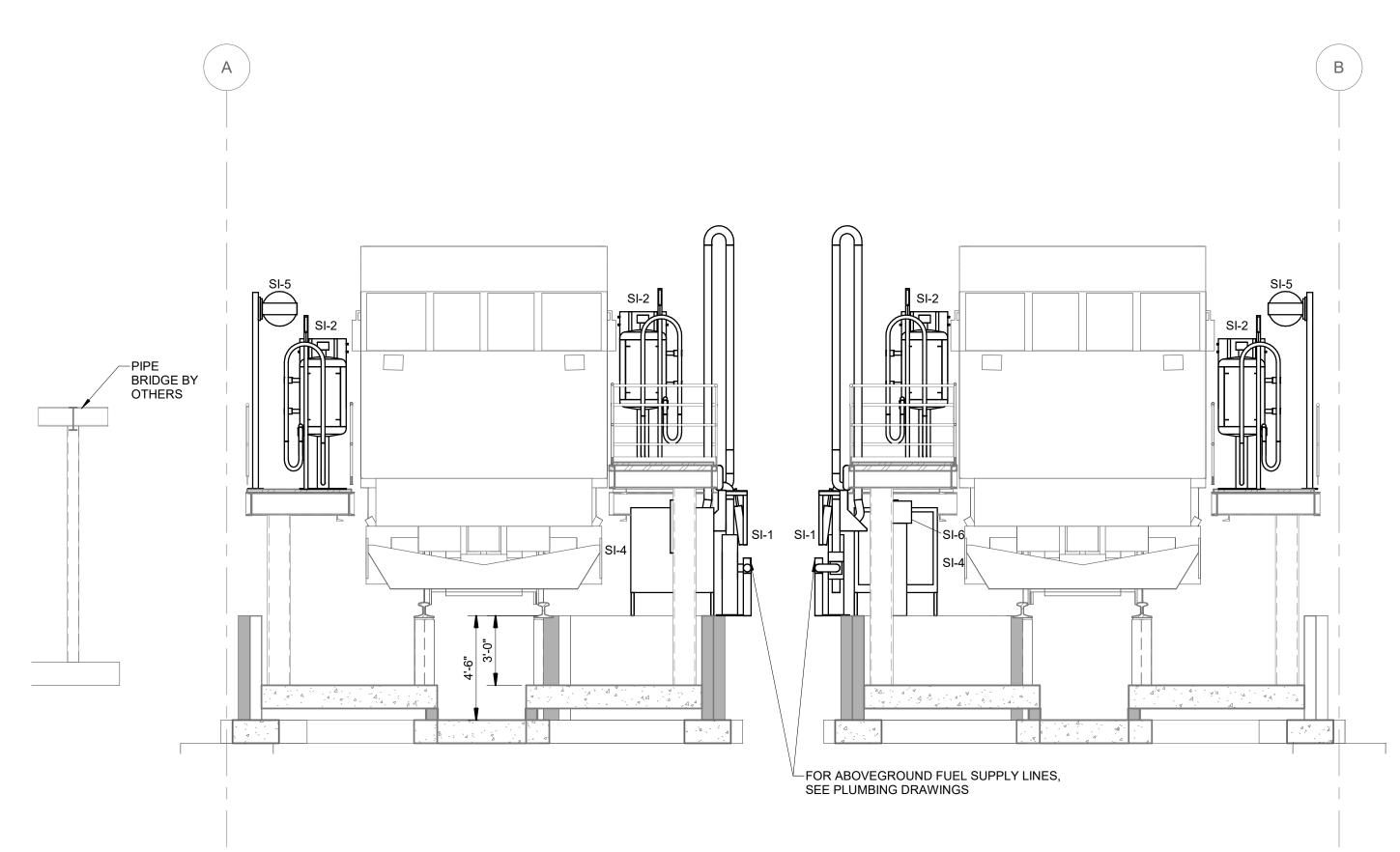
SCALE

AS INDICATED

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1 INDUSTRIAL EQUIPMENT - NORTH AREA SECTION 1

CUP - 061 SCALE: 1/8" = 1'-0"



2 INDUSTRIAL EQUIPMENT - NORTH AREA SECTION 2

TPK

TMD

Approver

04/11/2022

04/11/2022 CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3
DATE DESCRIPTION

## TRAIN WASH BUILDING INDUSTRIAL EQUIPMENT SCHEDULE

												TR	AIN W	ASH B	AY										
MARK	TYPE	STATUS	SUPPLIED BY	QTY	VOLTS		TRICAL DA		НР	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) WE	ICUT	DESCRIPTION	EQUIP CLEARANCE	COMMENTS
IVIARA	ITPE	SIAIUS	Di	QIT	VOLIS	РПАЭЕ	HERIZ	AIVIP	ПР	COMMENTS	REQU	AIK	FLK	(GPIVI)	REQU	VENT CHIVI	(IVIDII)	KEQD	SIZE	LINE	SIZE (VVXDXII) VVE	IGH I	DESCRIPTION	CLEARANCE	COMMENTS
	PANEL	N	CFCI	1	460 V	3	60 Hz	400 A	0 H	HW	No		No	0	No	0 CFM	0	No	0"		60"x20"x78"	N/S	S PLC PANEL	3' FRONT	
VW-1A TRA	NIN WASH CANTED COOL DOWN/ACID ARCH	N	CFCI	1	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	Yes	0"		15'-0"x72"x18'-3"	TR	AIN WASH ARCH	3' FRONT	PART OF TRAIN WASH SYSTEM
VW-1B TRA	NIN WASH CANTED ALKALINE ARCH	N	CFCI	1	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	Yes	0"		15'-0"x72"x18'-3"	TR	AIN WASH ARCH	3' FRONT	PART OF TRAIN WASH SYSTEM
VW-1C TRA	NIN WASH SIX BRUSH PACKAGE SYSTEM	N	CFCI	1	460 V	3	60 Hz	0 A	30 H	HW	No		No	0	No	0 CFM	0	Yes	0"		48'-4"x21'-3"x19'-8"	TR	AIN WASH SIX BRUSH PACKAGE SYSTEM	3' FRONT	PART OF TRAIN WASH SYSTEM
VW-1D TRA	NIN WASH CANTED HIGH PRESSURE ARCH	N	CFCI	1	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	Yes	0"		15'-0"x72"x18'-3"	TR	AIN WASH ARCH	3' FRONT	PART OF TRAIN WASH SYSTEM
VW-1E TRA	NIN WASH CANTED FRESH WATER RINSE ARCH	N	CFCI	1	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	Yes	0"		15'-0"x72"x18'-3"	TR	AIN WASH ARCH	3' FRONT	PART OF TRAIN WASH SYSTEM
VW-1F TRA	NIN WASH CANTED RO RINSE ARCH	N	CFCI	1	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	Yes	0"		15'-0"x72"x18'-3"	TR	AIN WASH ARCH	3' FRONT	PART OF TRAIN WASH SYSTEM
VW-2A RO	S UNIT/PANEL	N	CFCI	1	460 V	3	60 Hz	0 A	1.5 H	HW - PART OF RO SYSTEM	/ No		No	0	No	0 CFM	0	No	0"			N/S	S MODEL ROS 4000S		PART OF TRAIN WASH SYSTEM
VW-2B 300	0 GALLON RO WATER TANK	N	CFCI	2	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	No	0"		102" dia. x 97" 4	119 SN	IYDER 3000 GALLON RO WATER TANK	3' FRONT, 2' SIDES	PART OF TRAIN WASH SYSTEM
VW-2C 200	0 GALLON RO REJECT WATER TANK	N	CFCI	2	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	No	0"		90" dia. x 84" 3	395 SN	IYDER 2000 GALLON WATER TANK	3' FRONT, 2' SIDES	PART OF TRAIN WASH SYSTEM
VW-2D WA	TER SOFTENER	N	CFCI	1	120 V	1	60 Hz	20 A	0 F	POWER CORD	Yes		No	65	No	0 CFM	0	Yes	0"		24" dia. x 54"	WA	ATER SOFTENER CULLIGAN MODEL 210-2	3' FRONT, 12" BEHIND	PART OF TRAIN WASH SYSTEM
VW-3A RE	CLAIM WATER SYSTEM	N	CFCI	1	0 V	1	0 Hz	0 A		PART OF TRAIN WASH SYSTEM	No		No	0	No	0 CFM	0	Yes	0"			<b>I</b>	S WASH SYSTEMS RECLAIM SYSTEM WITH NKS		PART OF TRAIN WASH SYSTEM
VW-3B 200	0 GALLON RECLAIM WATER TANK	N	CFCI	2	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	Yes	0"		90" dia. x 84" 3	395 SN	IYDER 2000 GALLON WATER TANK	3' FRONT, 2' SIDES	PART OF TRAIN WASH SYSTEM
VW-3C 110	0 GALLON NEUTRALIZATION TANK	N	CFCI	1	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	Yes	0"		72" dia. x 72" 1	185 110	00 GALLON NEUTRALIZATION TANK DURA-CAST	3' FRONT, 2' SIDES	PART OF TRAIN WASH SYSTEM
VW-3D CH	EMICAL TANK	N	CFCI	2	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	Yes	0"		46" dia. x 77" 1	120 SN	IYDER 500 GALLON TANK	3' FRONT, 2' SIDES	PART OF TRAIN WASH SYSTEM
VW-3E CH	EMICAL TANK	N	CFCI	1	0 V	0	0 Hz	0 A	0		No		No	0	No	0 CFM	0	Yes	0"		22" dia. x 36"	SN	IYDER 35 GALLON ANTI-SEPTIC CHEMICAL TANK	3' FRONT, 2' SIDES	PART OF TRAIN WASH SYSTEM
VW-4 TRA	NIN WASH WATER STRIPPER ARCH	N	CFCI	1	480 V	3	60 Hz	100 A	80 H	HW	No		No	0	No	0 CFM	0	No	0"			WA	ATER STRIPPER		PART OF TRAIN WASH SYSTEM
VW-5 AIR	COMPRESSOR (PART OF WASH SYSTEM)	N	CFCI	1	460 V	3	60 Hz	0 A	10 H	HW	No	14 CFM / 175 PSI	Yes	0	No	0 CFM	0	No	0"		120 GAL. 8	350 QU	JINCY AIR COMPRESSOR QP-10	3' ALL AROUND	PART OF TRAIN WASH SYSTEM

#### SCHEDULE LEGEND:

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

DESIGNED BY  LJL		
DRAWN BY TPK	FOR REVIEW	
CHECKED BY TMD	ONLY	
APPROVED BY Approver	NOT FOR CONSTRUCTION	<b>E</b> Gan

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04/11/2022

MET	ROLINK
<b>Sannett Fleming</b>	SUBMITTED:PROJECT MANAGER

APPROVED:

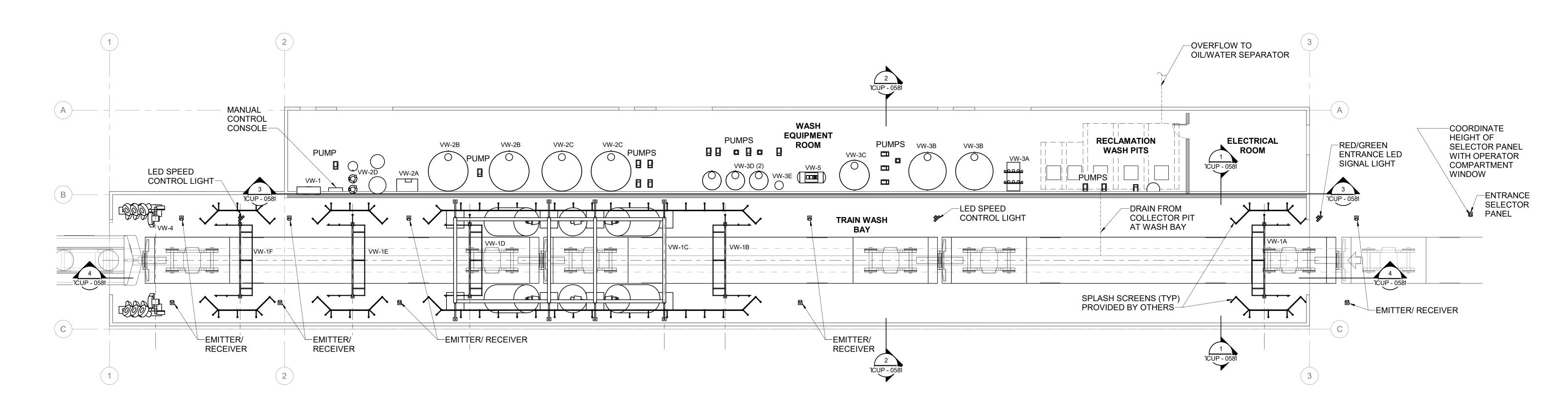
## METROLINK ORANGE COUNTY MAINTENANCE FACILITY PROJECT

INDUSTRIAL TRAIN WASH BUILDING EQUIPMENT SCHEDULE & GENERAL NOTES

CASE NO.	00846471-PCPU				
CONTRACT	NO.				
DRAWING N	0.				
CUP - 062					
REVISION	SHEET NO.				
1	63				
SCALE					

04/11/2022 CONDITIONAL USE PERMIT SUBMITTAL REVISION - 3





1 INDUSTRIAL EQUIPMENT - OVERALL GROUND FLOOR PLAN

ALL PLANS, DRAWINGS, SPECIFI-

CATIONS, AND OR INFORMATION

TPK

TMD

Approver

04/11/2022

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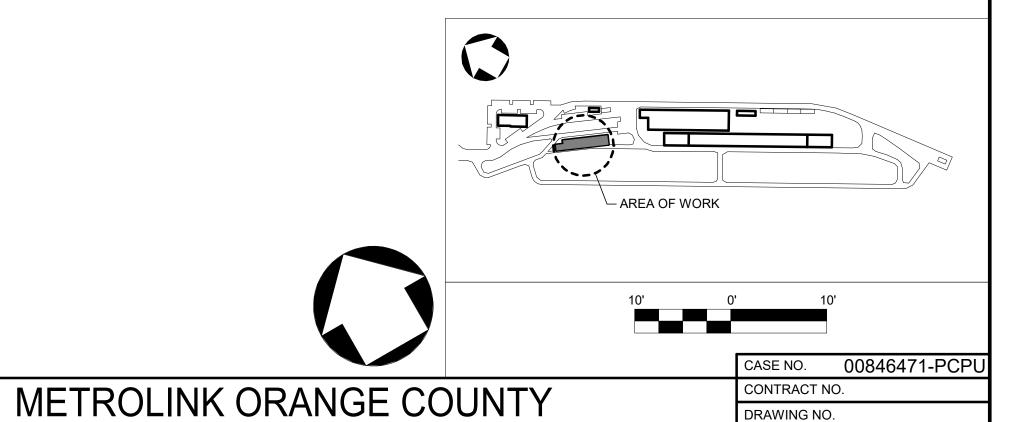
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ONLY

CONSTRUCTION



CUP - 063

AS INDICATED

REVISION SHEET NO.

METROLINK NOT FOR **E** Gannett Fleming

APPROVED:

MAINTENANCE FACILITY PROJECT

INDUSTRIAL TRAIN WASH BUILDING OVERALL EQUIPMENT FLOOR PLAN