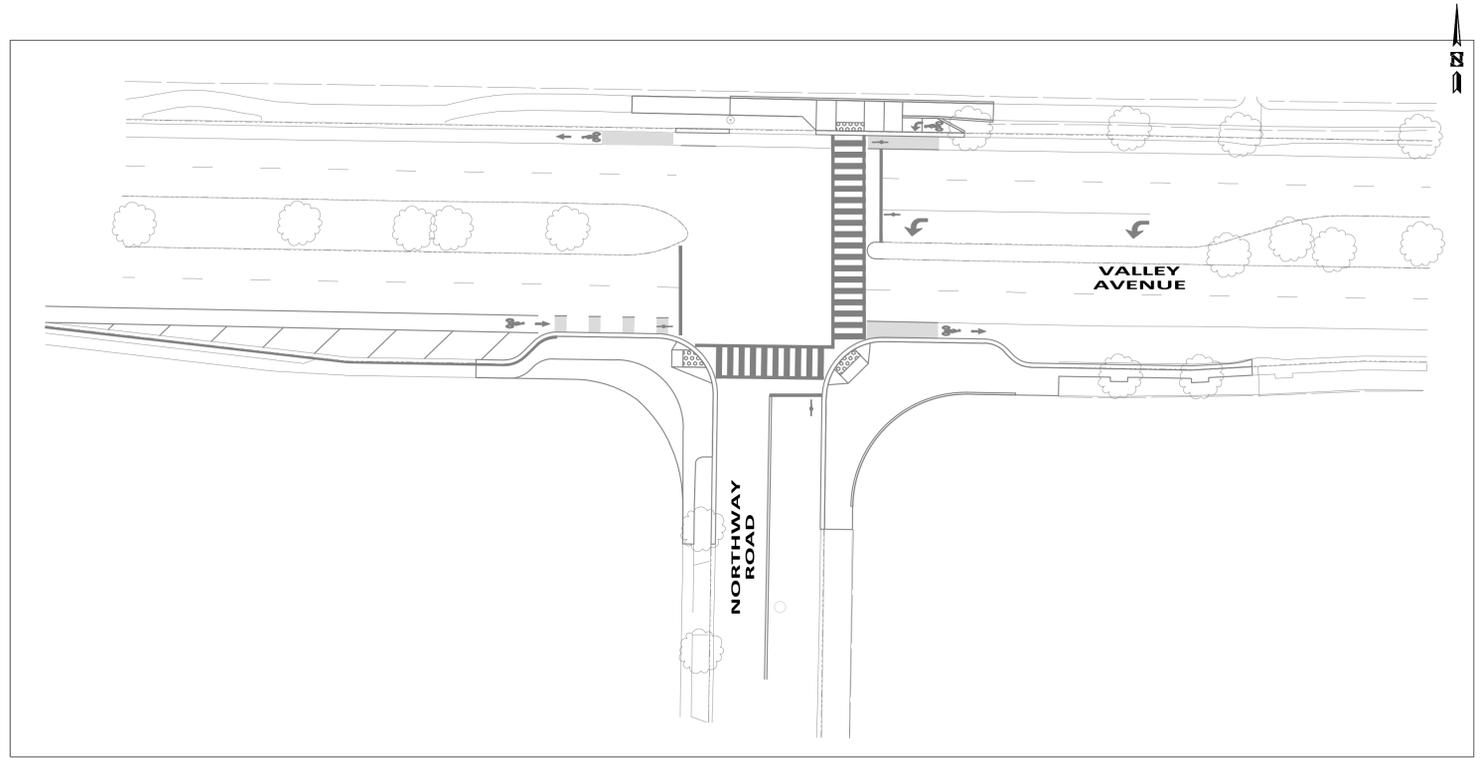


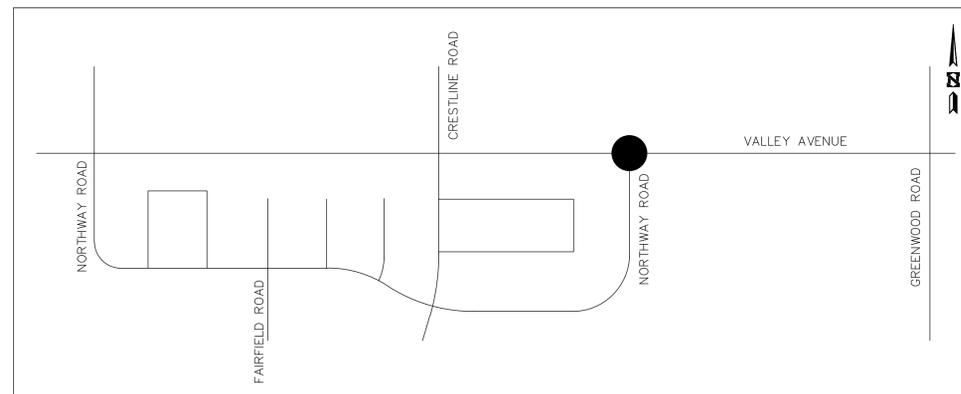
**CITY OF PLEASANTON**  
**TRAFFIC SIGNAL INSTALLATION AT VALLEY AVENUE AND NORTHWAY ROAD (EAST)**  
**CIP# 23532**

**SHEET INDEX**

NO.	DRAWING	DESCRIPTION
1	T-1	TITLE SHEET AND LOCATION MAP
2	GN-1	GENERAL NOTES
3	GN-2	GENERAL NOTES
4	SD-1	SURVEY CONTROL DIAGRAM
5	DM-1	DEMOLITION PLAN
6	LO-1	LAYOUT
7	D-1	DRAINAGE
8	CD-1	CONSTRUCTION DETAILS
9	CD-2	CONSTRUCTION DETAILS
10	CD-3	CONSTRUCTION DETAILS
11	CD-4	CONSTRUCTION DETAILS
12	CD-5	CONSTRUCTION DETAILS
13	CD-6	CONSTRUCTION DETAILS
14	L-1	PLANTING PLAN
15	IR-1	IRRIGATION PLAN
16	E-1	TRAFFIC SIGNAL INSTALLATION
17	E-2	TRAFFIC SIGNAL SCHEDULES
18	E-3	ELECTRICAL REMOVAL AND SALVAGE PLAN
19	E-4	SIGNAL INTERCONNECT PLAN
20	SS-1	SIGNING AND STRIPING PLAN



**LOCATION PLAN**  
 SCALE: NTS



**VICINITY MAP**  
 SCALE: NTS

<b>DRAWN</b> J. CHANG	<b>DESIGNED</b> T. CHANG	<b>SCALE</b> NOT TO SCALE
<b>CHECKED</b> J. ELIA	<b>DATE</b> 1/17/2024	
<b>APPROVED</b>		
<b>ENGINEER</b>	<b>DATE</b>	<b>CONTRACT NO.</b>



**PREPARED BY:**  

**HEXAGON TRANSPORTATION CONSULTANTS, INC.**  
 100 Century Center Court, Suite 501  
 San Jose, California 95112  
 Ph: (408) 971-6100  
[www.hextrans.com](http://www.hextrans.com)

REVISIONS					
NO.	DATE	BY	DESCRIPTION	APPR.	DATE



**CITY OF PLEASANTON**  
**TITLE SHEET**  
**VALLEY AVENUE AND NORTHWAY ROAD (EAST)**

<b>DRAWING NO.</b>
<b>T-1</b>
SHEET 1 OF 20

1. GENERAL NOTES

ALL WORK SHALL BE IN ACCORDANCE WITH THE NOVEMBER 2016 CITY OF PLEASANTON STANDARD SPECIFICATIONS AND DETAILS AND THE 2022 EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND STANDARD PLANS.

2. ABBREVIATIONS

AB AGGREGATE BASE  
 AC ASPHALT CONCRETE  
 AP ANGLE POINT  
 Beg BEGIN  
 BOW BACK OF WALK  
 CI CURB INLET  
 Conc CONCRETE  
 Cont CONTINUE  
 C&G CURB & GUTTER  
 EC END HORIZONTAL CURVE  
 Elev ELEVATION  
 Exc EXCAVATION  
 Exist EXISTING  
 FL FLOW LINE  
 HP HIGH POINT  
 INV INVERT  
 LF LINEAR FEET  
 L LEFT  
 Med MEDIAN  
 OC ON CENTER  
 OG ORIGINAL GROUND  
 PCC PORTLAND CEMENT CONCRETE  
 RCP REINFORCED CONCRETE PIPE  
 Rdwy ROADWAY  
 Rem REMOVE  
 Ret RETAINING  
 Rt RIGHT  
 SC SAWCUT  
 SW SIDEWALK  
 TC TOP OF CURB

3. REMOVING CONCRETE

WHERE CONCRETE IS DESCRIBED TO BE REMOVED, REMOVE THE CONCRETE TO A DEPTH OF AT LEAST 3 FEET BELOW FINISHED GRADE.

CONCRETE REMOVAL INCLUDES REMOVAL OF ANY STEEL EMBEDDED IN THE CONCRETE.

BEFORE REMOVING A PORTION OF A MONOLITHIC CONCRETE ELEMENT, MAKE A 1-INCH-DEEP SAW CUT TO A TRUE LINE ALONG THE LIMITS OF REMOVAL ON FACES OF THE ELEMENT THAT WILL BE VISIBLE IN THE COMPLETED WORK.

PROTECT EXISTING REINFORCEMENT TO BE INCORPORATED INTO THE NEW WORK FROM DAMAGE.

WHERE NEW CONCRETE IS TO JOIN EXISTING CONCRETE, REMOVE ENOUGH CONCRETE TO ALLOW SPLICING OF NEW REINFORCEMENT.

THOROUGHLY REMOVE ALL MATERIAL ADHERING TO THE EXISTING REINFORCEMENT BEFORE EMBEDDING IT IN NEW CONCRETE.

INSTEAD OF DISPOSING OF REMOVAL CONCRETE, YOU MAY:

1. INCORPORATE IT IN ADJACENT EMBANKMENTS IF IT IS:
  - 1.1. BROKEN INTO PARTS AT MOST 10 INCHES IN GREATEST DIMENSION
  - 1.2. BURIED AT LEAST 3 FEET BELOW THE FINISHED GRADE AND SLOPE LINES
  - 1.3. BURIED AT LEAST 10 FEET FROM THE DRIPLINE OF TREES OR HIGHWAY FACILITIES
2. PLACE IT AT AUTHORIZED LOCATIONS SUCH THAT IT WILL NOT PRESENT AN UNSIGHTLY APPEARANCE FROM THE HIGHWAY

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

**Underground Service Alert**

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 642-2444

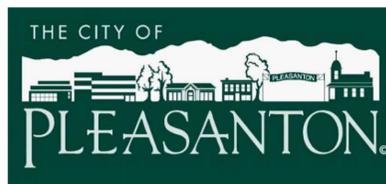
TWO WORKING DAYS BEFORE YOU DIG



**100% SUBMITTAL**

**CITY OF PLEASANTON  
 VALLEY AVE & NORTHWAY RD  
 INTERSECTION IMPROVEMENTS  
 GENERAL NOTES**

**MARK THOMAS**  
 1970 BROADWAY, SUITE 760  
 OAKLAND, CA 94612  
 (510) 844-5600



REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED

DESIGNED BY: AL  
 DRAWN BY: AS

SCALE: NO SCALE      DATE: 1/17/2024      PIN: AL-20106      **GN-1**      SHEET: 02 OF 20

4. GUARDRAIL SPECIFICATIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. STAINLESS STEEL CABLE GUARDRAIL
- B. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND APPURTENANCES NECESSARY FOR INSTALLATION OF THE STAINLESS STEEL CABLE GUARDRAIL DEFINED HEREIN CALLED OUT AS "GUARDRAIL."

1.02 RELATED REQUIREMENTS

- A. CITY OF PLEASANTON STANDARD SPECIFICATIONS SECTION 15 - CONCRETE IMPROVEMENTS

1.03 REFERENCE STANDARDS

- A. ASTM A123 - STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS.
- B. ASTM A276 - SPECIFICATION FOR STAINLESS AND HEAT-RESISTING STEEL BARS AND SHAPES.
- C. ASTM A666 - STANDARD SPECIFICATION FOR ANNEALED OR COLD-WORKED AUSTENITIC STAINLESS STEEL SHEET, STRIP, PLATE, AND FLAT BAR.
- D. ASTM E985 - SPECIFICATION FOR PERMANENT METAL RAILING SYSTEMS AND RAILS FOR BUILDINGS.

1.04 DEFINITIONS

- A. REFER TO DEFINITIONS IN ASTM E985 FOR RAILING-RELATED TERMS THAT APPLY TO THIS SECTION.

1.05 PERFORMANCE REQUIREMENTS

- A. GENERAL: HANDRAILS AND RAILINGS SHALL WITHSTAND STRUCTURAL LOADING AS DETERMINED BY ALLOWABLE DESIGN WORKING STRESSES OF MATERIALS.
- B. STRUCTURAL PERFORMANCE: PROVIDE HANDRAILS AND RAILINGS CAPABLE OF WITHSTANDING THE FOLLOWING STRUCTURAL LOADS WITHOUT EXCEEDING ALLOWABLE DESIGN WORKING STRESS OF MATERIALS FOR HANDRAILS, RAILINGS, ANCHORS, AND CONNECTIONS.
  - 1. COMPONENTS AND INSTALLATION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODE AUTHORITIES.
  - 2. COMPONENTS AND INSTALLATION SHALL FOLLOW CURRENT ADA AND ICC/ANSI A117.1 GUIDELINES.

1.06 SUBMITTALS

- A. PRODUCT DATA: SUBMIT MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING:
  - 1. PREPARATION INSTRUCTIONS AND RECOMMENDATIONS.
  - 2. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.
  - 3. INSTALLATION METHODS.
- B. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS SHOWING FABRICATION AND INSTALLATION OF HANDRAILS AND RAILINGS. INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK.
  - 1. PROVIDE SETTING DIAGRAMS FOR INSTALLATION OF ANCHORS, LOCATION OF POCKETS, WELD PLATES FOR ATTACHMENT OF RAILS TO STRUCTURE, AND BLOCKING FOR ATTACHMENT OF WALL RAIL.
  - 2. INDICATE ALL REQUIRED FIELD MEASUREMENTS TO BE HELD.
  - 3. INDICATE MATERIALS, SIZES, STYLES, FABRICATION, ANCHORAGE, AND INSTALLATION DETAILS FOR RAILING SYSTEM AND INFILL.
  - 4. INDICATE SPACING OF POSTS BASED ON TOTAL REQUIRED GUARDRAIL LENGTH.
- C. CERTIFICATIONS:
  - 1. FURNISH CERTIFICATION THAT ALL COMPONENTS AND FITTINGS ARE FURNISHED BY THE SAME MANUFACTURER OR APPROVED BY THE PRIMARY COMPONENT MANUFACTURER.

1.07 QUALITY ASSURANCE

- A. MANUFACTURER QUALIFICATIONS: MANUFACTURER SHALL BE A FIRM ENGAGED IN THE MANUFACTURE OF STAINLESS STEEL CABLE GUARDRAILS OF TYPES AND SIZES REQUIRED, AND WHOSE PRODUCTS HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR A MINIMUM OF 5 YEARS.
- B. REGULATORY REQUIREMENTS: COMPLY WITH APPLICABLE REQUIREMENTS OF THE LAWS, CODES, ORDINANCES, AND REGULATIONS OF FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION. OBTAIN NECESSARY APPROVALS FROM SUCH AUTHORITIES.
- C. INSTALLER QUALIFICATIONS: MINIMUM 2 YEARS EXPERIENCE INSTALLING SIMILAR SYSTEMS.

1.08 DELIVERY, STORAGE, AND HANDLING

- A. UPON RECEIPT AT THE JOB SITE, ALL MATERIALS SHALL BE CHECKED TO ENSURE THAT NO DAMAGE OCCURRED DURING SHIPPING OR HANDLING. MATERIALS SHALL BE STORED IN SUCH A MANNER TO ENSURE PROPER VENTILATION AND DRAINAGE, AND TO PROTECT AGAINST DAMAGE, WEATHER, VANDALISM, AND THEFT.

1.09 WARRANTY

- A. ALL STRUCTURAL GUARDRAIL COMPONENTS (I.E. POSTS, CABLES, ETC.) SHALL BE WARRANTED WITHIN SPECIFIED LIMITATIONS, BY THE MANUFACTURER FOR A PERIOD OF 15 YEARS FROM THE DATE OF ORIGINAL PURCHASE. WARRANTY SHALL COVER ANY DEFECTS IN MATERIAL FINISH, INCLUDING CRACKING, PEELING, CHIPPING, BLISTERING, OR CORRODING.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. ACCEPTABLE MANUFACTURER: MAS METALS, WHICH IS LOCATED AT: 32410 CENTRAL AVE., UNION CITY, CALIFORNIA 94587; TEL: 510-259-1426; OR APPROVED EQUAL.

2.02 GALVANIZED STEEL RAILINGS WITH STAINLESS STEEL CABLE INFILL

- A. GALVANIZED STEEL RAILINGS WITH STAINLESS STEEL CABLE INFILL.
  - 1. MOUNTING: BOTTOM (CURB) BEND PLATE.
  - 2. RAIL HEIGHT: 43 INCHES.
  - 3. CABLE RAILING: HORIZONTAL.
  - 4. POSTS: GALVANIZED STEEL FLAT BAR.
  - 5. FASTENERS: 3/8 INCH DIAMETER GALVANIZED THREADED RODS.
  - 6. TOP RAIL TYPE: GALVANIZED STEEL FLAT BAR.

- B. GALVANIZED STEEL COMPONENTS: PROVIDE MANUFACTURER'S STANDARD COMPONENTS AS FOLLOWS:

- 1. FLAT BAR INTERMEDIATE POST: 2 X 5/8 INCH, GALVANIZED STEEL.
  - a. SPACING: AS INDICATED ON DRAWINGS.
- 2. TOP FLAT BAR TYPE: 2 X 5/8 INCH, GALVANIZED STEEL.
- 3. INTERMEDIATE CABLE BRACES:
  - a. TYPE: SINGLE PIECE.
  - b. SIZE: AS INDICATED ON DRAWINGS.
  - c. SPACING: AS INDICATED ON DRAWINGS.

C. STAINLESS STEEL COMPONENTS

- 1. CABLE ASSEMBLIES: 5/8 INCH DIAMETER CABLE, 5/8 INCH THREADED STUD TERMINAL, AND 5/8 INCH THREADED STUD TENSIONER. CABLE AND FITTINGS, TYPE 316 STAINLESS STEEL.
- D. CABLE ASSEMBLIES: 5/8 INCH DIAMETER CABLE
- E. STAINLESS STEEL MATERIAL:
  - 1. STAINLESS STEEL: TYPE 316.

2.03 FABRICATION

- A. FABRICATE HANDRAILS AND RAILINGS BY CONNECTING MEMBERS WITH RAILING MANUFACTURER'S STANDARD CONCEALED MECHANICAL FASTENERS AND FITTINGS, UNLESS OTHERWISE INDICATED. FABRICATE MEMBERS AND FITTINGS TO PRODUCE FLUSH, SMOOTH, RIGID, HAIRLINE JOINTS.
- B. PROVIDE MANUFACTURER'S STANDARD WALL BRACKETS, FLANGES, MISCELLANEOUS FITTINGS, AND ANCHORS TO CONNECT HANDRAIL AND RAILING MEMBERS TO OTHER CONSTRUCTION.
- C. PROVIDE INSERTS AND OTHER ANCHORAGE DEVICES TO CONNECT HANDRAILS AND RAILINGS TO CONCRETE OR MASONRY. FABRICATE ANCHORAGE DEVICES CAPABLE OF WITHSTANDING LOADS IMPOSED BY HANDRAILS AND RAILINGS. COORDINATE ANCHORAGE DEVICES WITH SUPPORTING STRUCTURE.
- D. SHEAR AND PUNCH METALS CLEANLY AND ACCURATELY. REMOVE BURRS FROM EXPOSED CUT EDGES.
- E. CUT, REINFORCE, DRILL, AND TAP COMPONENTS AS INDICATED ON THE DRAWINGS TO RECEIVE FINISH HARDWARE, SCREWS, AND SIMILAR ITEMS.
- F. CLOSE EXPOSED ENDS OF RAILING MEMBERS WITH PREFABRICATED END FITTINGS.

PART 3 EXECUTION

3.01 EXAMINATION

- A. VERIFICATION OF CONDITIONS: EXAMINE AREAS AND CONDITIONS UNDER WHICH THE WORK IS TO BE INSTALLED, AND NOTIFY THE CONTRACTOR IN WRITING, WITH A COPY TO THE OWNER AND THE ENGINEER, OF ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
  - 1. EXAMINE SUBSTRATES TO RECEIVE ANCHORS VERIFYING THAT LOCATIONS OF CONCEALED REINFORCEMENTS HAVE BEEN CLEARLY MARKED FOR THE INSTALLER. LOCATE REINFORCEMENTS AND MARK LOCATIONS IF NOT ALREADY DONE.
  - 2. BEGINNING OF THE WORK SHALL INDICATE ACCEPTANCE OF THE AREAS AND CONDITIONS AS SATISFACTORY BY THE INSTALLER.

3.02 PREPARATION

- A. COORDINATE SETTING DRAWINGS, DIAGRAMS, TEMPLATES, INSTRUCTIONS, AND DIRECTIONS FOR

INSTALLING ANCHORS, SUCH AS SLEEVES, CONCRETE INSERTS, ANCHOR BOLTS, AND MISCELLANEOUS ITEMS HAVING INTEGRAL ANCHORS THAT ARE TO BE EMBEDDED IN CONCRETE OR MASONRY CONSTRUCTION. COORDINATE DELIVERY OF SUCH ITEMS TO THE PROJECT SITE.

3.03 INSTALLATION

- D. GENERAL: INSTALL COMPONENTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND IN PROPER RELATIONSHIP WITH ADJACENT CONSTRUCTION.
  - 1. FITTING: FIT EXPOSED CONNECTIONS TOGETHER TO FORM TIGHT, HAIRLINE JOINTS.
  - 2. CUTTING AND PLACEMENT: SET HANDRAILS AND RAILINGS ACCURATELY IN LOCATION, ALIGNMENT, AND ELEVATION MEASURED FROM ESTABLISHED LINES AND LEVELS AND FREE FROM RACK.
    - a. DO NOT WELD, CUT, OR ABRASE COATED OR FINISHED SURFACES OF RAILING COMPONENTS THAT ARE INTENDED FOR FIELD CONNECTION BY MECHANICAL OR OTHER MEANS WITHOUT FURTHER CUTTING OR FITTING.
    - b. ALIGN RAILS SO VARIATIONS FROM LEVEL OR PARALLEL ALIGNMENT DO NOT EXCEED 1/4 INCH IN 12 FEET.
    - c. ADJUSTING: ADJUST HANDRAILS AND RAILINGS BEFORE ANCHORING TO ENSURE ALIGNMENT AT ABUTTING JOINT'S SPACE POSTS AT INTERVAL INDICATED, BUT NOT LESS THAN REQUIRED TO ACHIEVE STRUCTURAL LOADS.
    - d. FASTENING TO IN-PLACE CONSTRUCTION: USE ANCHORAGE DEVICES AND FASTENERS WHERE NECESSARY FOR SECURING HANDRAILS AND RAILINGS AND FOR PROPERLY TRANSFERRING LOADS TO IN-PLACE CONSTRUCTION.
- B. NON-WELDED RAILINGS CONNECTIONS: USE MECHANICAL JOINTS FOR PERMANENTLY CONNECTING RAILING COMPONENTS. USE WOOD BLOCKS AND PADDING TO PREVENT DAMAGE TO RAILING MEMBERS AND FITTINGS.

3.04 ADJUSTING AND CLEANING

- A. PASSIVATION: IMMEDIATELY AFTER ERECTION, SPRAY PASSIVATION SOLUTION ON STAINLESS STEEL FRAME PIECES AND CABLES TO RESTORE PROTECTIVE LAYER.
- B. CLEANING: RESTORE FINISHES DAMAGED DURING INSTALLATION AND CONSTRUCTION PERIOD SO NO EVIDENCE REMAINS OF CORRECTION WORK. RETURN ITEMS THAT CANNOT BE REFINISHED IN FIELD TO SHOP; MAKE REQUIRED ALTERATIONS AND REFINISH ENTIRE UNIT OR PROVIDE NEW UNITS.

3.05 PROTECTION

- A. PROVIDE FINAL PROTECTION AND MAINTAIN CONDITIONS IN A MANNER ACCEPTABLE TO THE INSTALLER THAT SHALL ENSURE THAT THE GALVANIZED HANDRAILS AND RAILINGS SHALL BE WITHOUT DAMAGE AT TIME OF SUBSTANTIAL COMPLETION.
- B. PROTECT FINISHES OF HANDRAILS AND RAILINGS FROM DAMAGE DURING CONSTRUCTION PERIOD WITH TEMPORARY PROTECTIVE COVERINGS APPROVED BY RAILING MANUFACTURER. REMOVE PROTECTIVE COVERINGS AT THE TIME OF SUBSTANTIAL COMPLETION.
- C. PROTECT STAINLESS STEEL FROM CORROSION AND STAINING BY APPLYING PASSIVATION SOLUTION FOLLOWING INSTALLATION AND PERIODICALLY THEREAFTER.

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

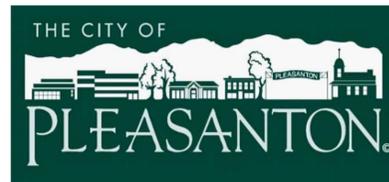
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**MARK THOMAS**

1970 BROADWAY, SUITE 760  
OAKLAND, CA 94612  
(510) 844-5600



REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED
DESIGNED BY:	AL		
DRAWN BY:	AS		

**100% SUBMITTAL**

**CITY OF PLEASANTON  
VALLEY AVE & NORTHWAY RD  
INTERSECTION IMPROVEMENTS  
GENERAL NOTES**

SCALE: NO SCALE	DATE: 1/17/2024	PIN: AL-20106	<b>GN-2</b>	SHEET: 03 OF 20
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**NOTES:**

CONTRACTOR SHALL COMPLY WITH CALIFORNIA BUSINESS AND PROFESSIONS CODE SECTION 8771 (b) REGARDING REFERENCING, PRESERVING, AND RECONSTRUCTING MONUMENTS, WHETHER OR NOT MONUMENTS ARE SHOWN IN THESE PLANS.

**LEGEND:**

△ CONTROL POINT

**BASIS OF ELEVATION:**

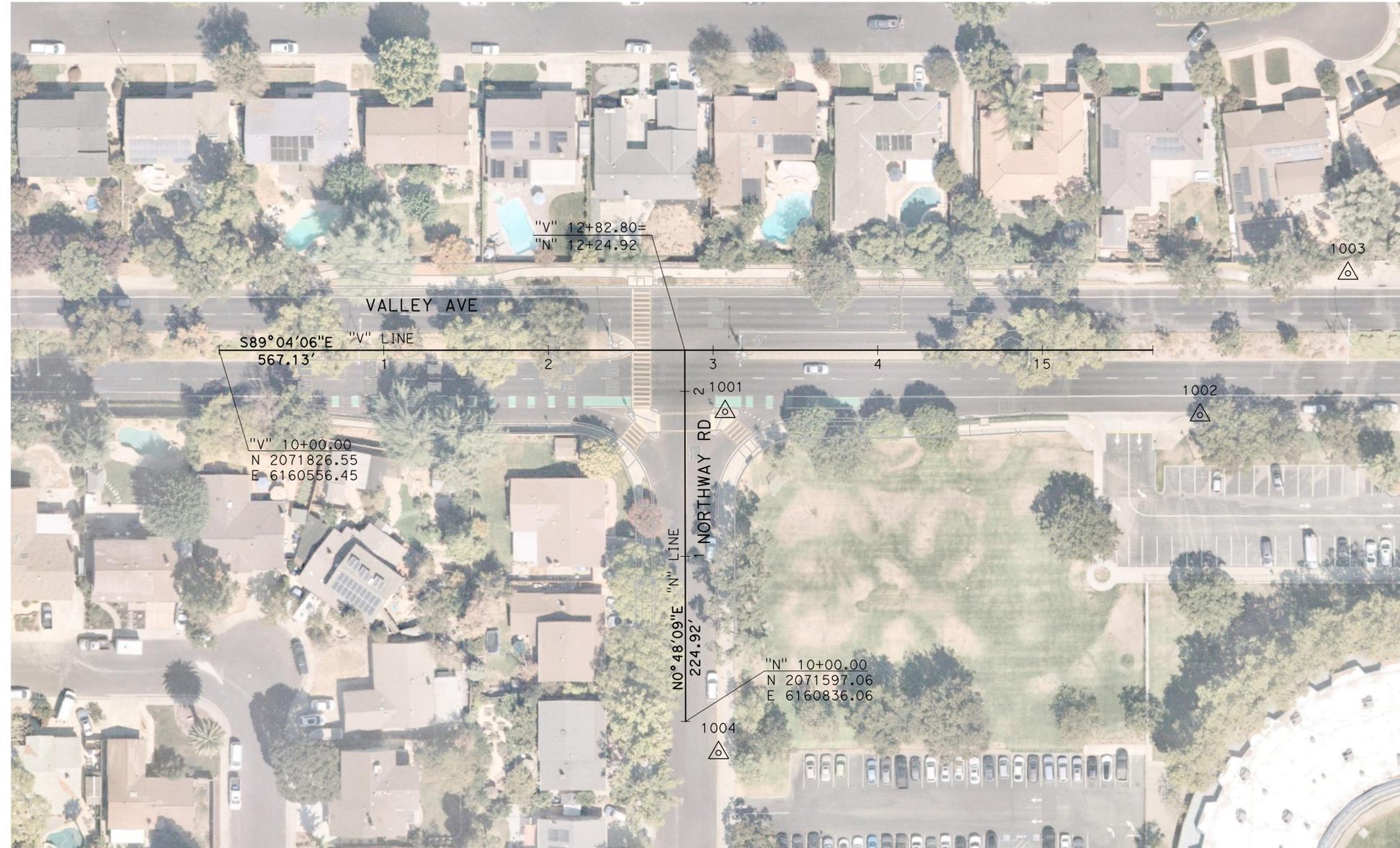
THE VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). ELEVATIONS WERE DERIVED FROM GPS OBSERVATIONS.

**BASIS OF COORDINATES:**

THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3, EPOCH 2017.50. THEY ARE BASED ON GPS OBSERVATIONS.

**SURVEY CONTROL TABLE**

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1001	2071784.24	6160863.14	333.52	REBAR & PLASTIC CAP
1002	2071777.42	6161151.51	333.81	WEDGE ANCHOR
1003	2071861.80	6161242.74	334.29	CUT "X"
1004	2071577.66	6160855.77	332.31	CUT "X"



NO SCALE

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

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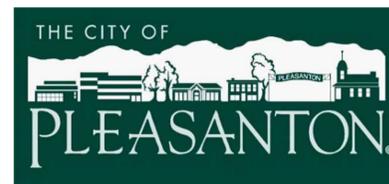
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1-800-642-2444

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**CITY OF PLEASANTON  
VALLEY AVE & NORTHWAY RD  
INTERSECTION IMPROVEMENTS  
SURVEY CONTROL DIAGRAM**

**MARK THOMAS**  
1970 BROADWAY, SUITE 760  
OAKLAND, CA 94612  
(510) 844-5600



REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED

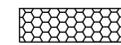
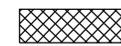
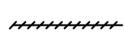
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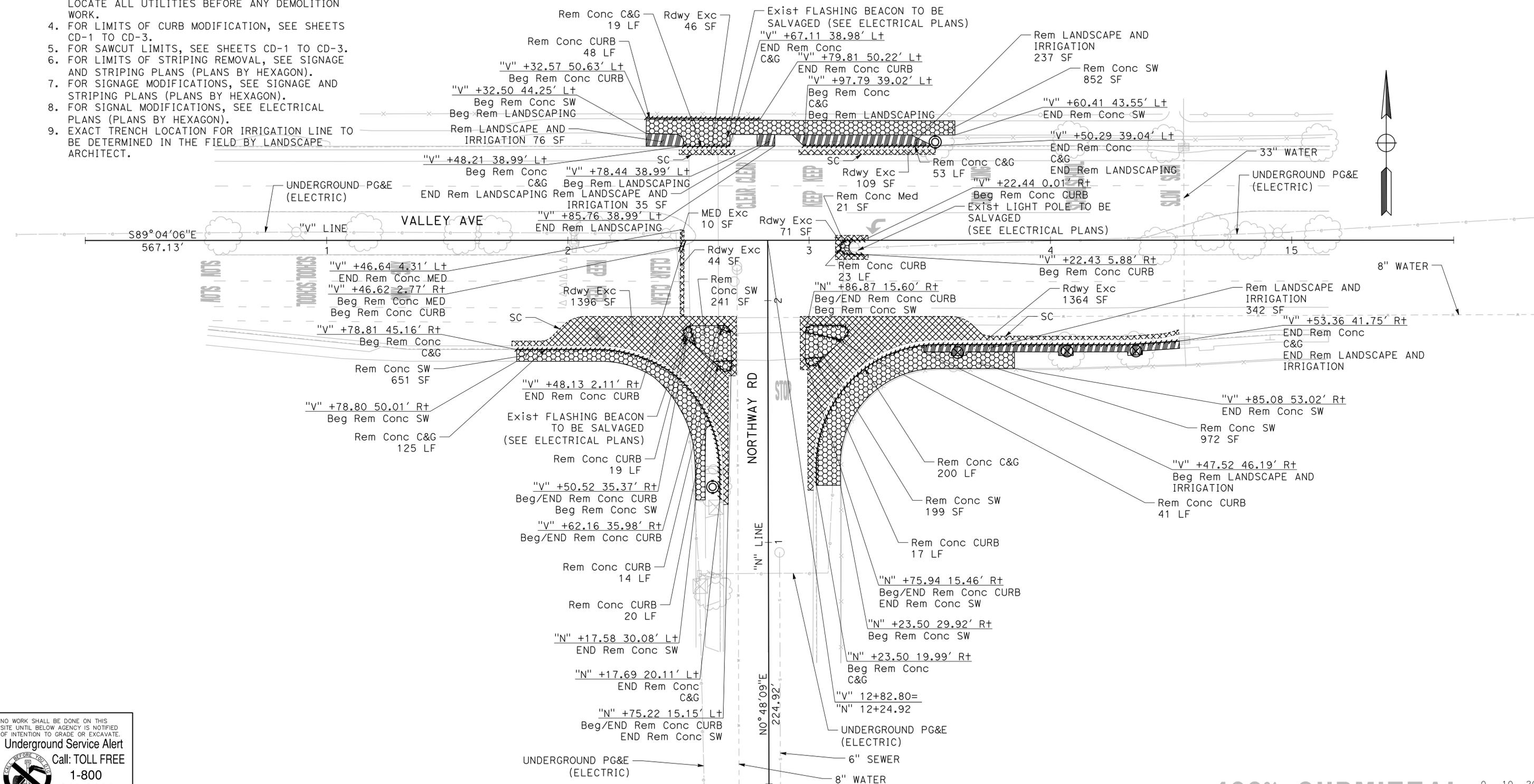
SCALE: NO SCALE    DATE: 1/17/2024    PIN: AL-20106    **SD-1**    SHEET: 04 OF 20

**NOTES:**

1. ALL TREES SHALL REMAIN DURING CONSTRUCTION UNLESS OTHERWISE NOTED.
2. FOR ABBREVIATIONS, SEE SHEET GN-1.
3. CONTRACTOR SHALL POSITIVELY IDENTIFY AND LOCATE ALL UTILITIES BEFORE ANY DEMOLITION WORK.
4. FOR LIMITS OF CURB MODIFICATION, SEE SHEETS CD-1 TO CD-3.
5. FOR SAWCUT LIMITS, SEE SHEETS CD-1 TO CD-3.
6. FOR LIMITS OF STRIPING REMOVAL, SEE SIGNAGE AND STRIPING PLANS (PLANS BY HEXAGON).
7. FOR SIGNAGE MODIFICATIONS, SEE SIGNAGE AND STRIPING PLANS (PLANS BY HEXAGON).
8. FOR SIGNAL MODIFICATIONS, SEE ELECTRICAL PLANS (PLANS BY HEXAGON).
9. EXACT TRENCH LOCATION FOR IRRIGATION LINE TO BE DETERMINED IN THE FIELD BY LANDSCAPE ARCHITECT.

**LEGEND:**

-  REMOVE CONCRETE SIDEWALK/MEDIAN
-  ROADWAY EXCAVATION
-  REMOVE LANDSCAPE AND IRRIGATION
-  PROTECT EXISTING TREE
-  REMOVE CONCRETE CURB/CURB & GUTTER
-  REMOVE TREE



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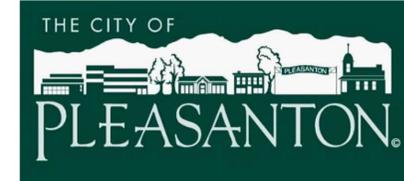
0 10 20  
SCALE: 1"=20'

**MARK THOMAS**

1970 BROADWAY, SUITE 760  
OAKLAND, CA 94612  
(510) 844-5600



THE CITY OF  
**PLEASANTON**



REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED

DESIGNED BY: AL  
DRAWN BY: AS

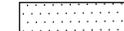
**CITY OF PLEASANTON**  
**VALLEY AVE & NORTHWAY RD**  
**INTERSECTION IMPROVEMENTS**  
**DEMOLITION PLAN**

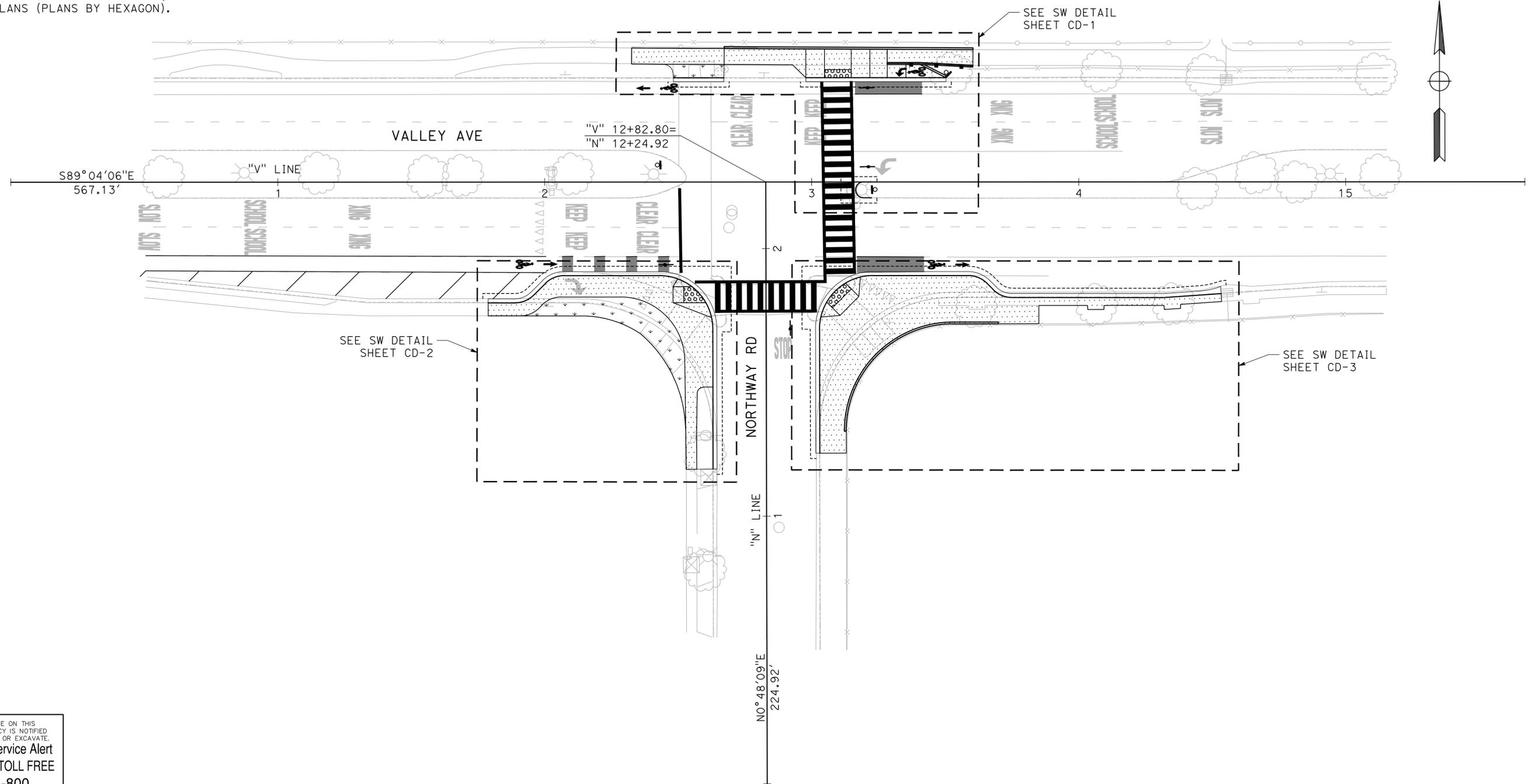
SCALE: 1"=20'    DATE: 1/17/2024    PIN: AL-20106    **DM-1**    SHEET: 05 OF 20

**NOTES:**

1. ALL CURB LOCATIONS ARE AT TOP FACE OF CURB.
2. FOR CURB RAMP DETAILS, SEE SHEETS CD-1 TO CD-3.
3. EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
4. FOR STRIPING MODIFICATIONS, SEE SIGNAGE AND STRIPING PLANS (PLANS BY HEXAGON).
5. FOR SIGNAGE MODIFICATIONS, SEE SIGNAGE AND STRIPING PLANS (PLANS BY HEXAGON).
6. FOR SIGNAL MODIFICATIONS, SEE ELECTRICAL PLANS (PLANS BY HEXAGON).

**LEGEND:**

-  CONCRETE SIDEWALK
-  LANDSCAPE AREA
-  DETECTABLE WARNING SURFACE
-  SAWCUT

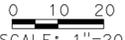


NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

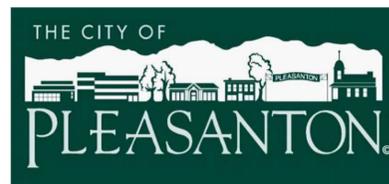
**Underground Service Alert**

Call: TOLL FREE  
1-800-642-2444

TWO WORKING DAYS BEFORE YOU DIG

**100% SUBMITTAL**  SCALE: 1"=20'

**MARK THOMAS**  
1970 BROADWAY, SUITE 760  
OAKLAND, CA 94612  
(510) 844-5600



REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED

DESIGNED BY: AL  
DRAWN BY: AS

**CITY OF PLEASANTON  
VALLEY AVE & NORTHWAY RD  
INTERSECTION IMPROVEMENTS  
LAYOUT**

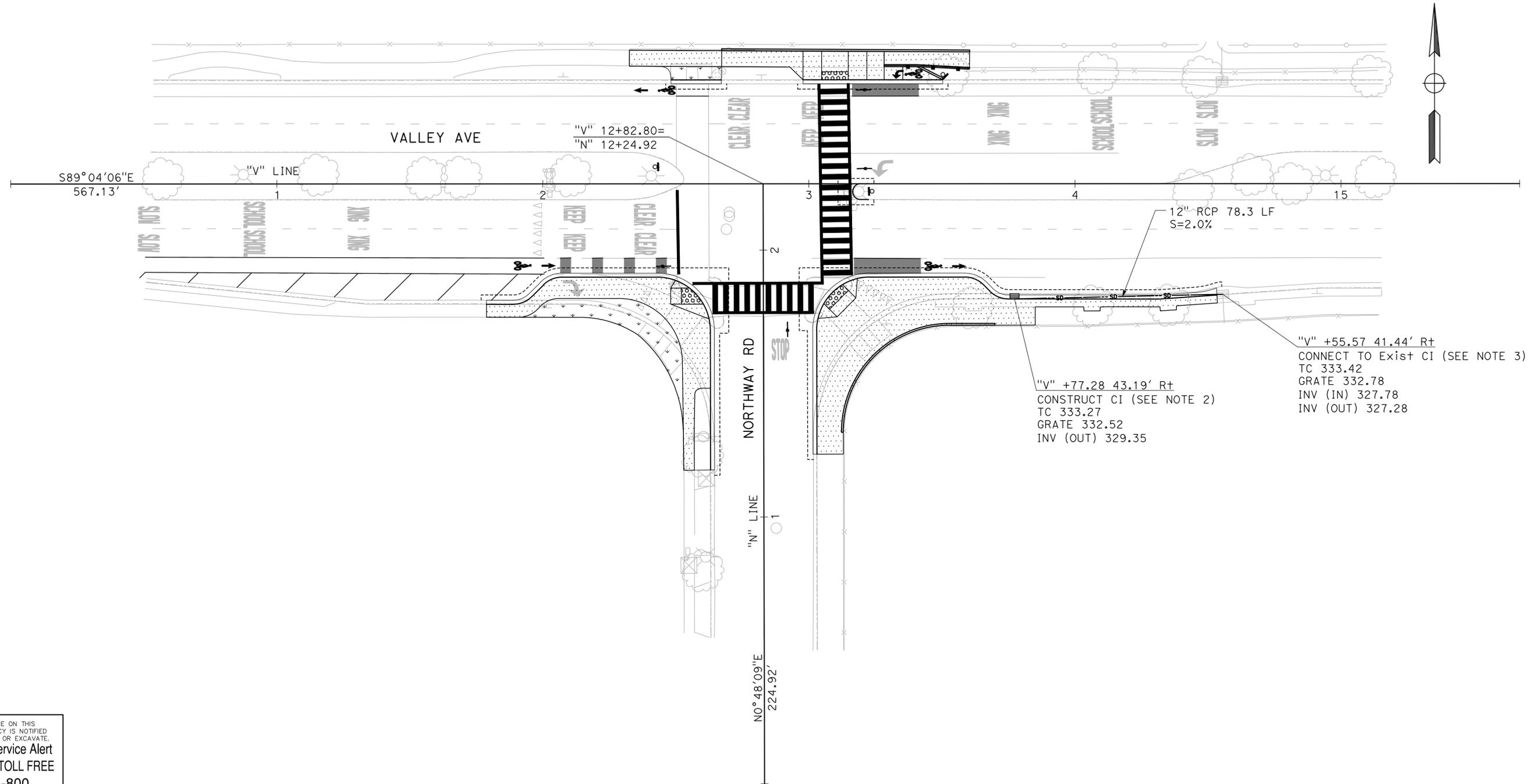
SCALE: 1"=20'    DATE: 1/17/2024    PIN: AL-20106    **LO-1**    SHEET: 06 OF 20

**NOTES:**

1. FOR NOTES AND LEGEND, SEE SHEET LO-1.
2. FOR CI DETAIL, SEE CITY OF PLEASANTON STANDARD DETAIL 201A.
3. EXISTING CI IS INTENDED TO REMAIN. CONTRACTOR TO CONNECT NEW PIPE TO EXISTING CI. IF EXISTING CI IS DAMAGED DURING CONSTRUCTION, DAMAGED CI IS TO BE REPLACED WITH NEW CI AT THE EXPENSE OF THE CONTRACTOR.

**LEGEND:**

---so--- 12" REINFORCED CONCRETE PIPE



NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

**Underground Service Alert**

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1-800-642-2444

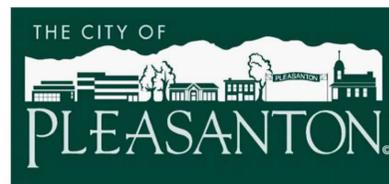
TWO WORKING DAYS BEFORE YOU DIG

**100% SUBMITTAL**

0 10 20  
SCALE: 1"=20'

**MARK THOMAS**

1970 BROADWAY, SUITE 760  
OAKLAND, CA 94612  
(510) 844-5600



REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED

DESIGNED BY: AL  
DRAWN BY: AS

**CITY OF PLEASANTON**  
**VALLEY AVE & NORTHWAY RD**  
**INTERSECTION IMPROVEMENTS**  
**DRAINAGE**

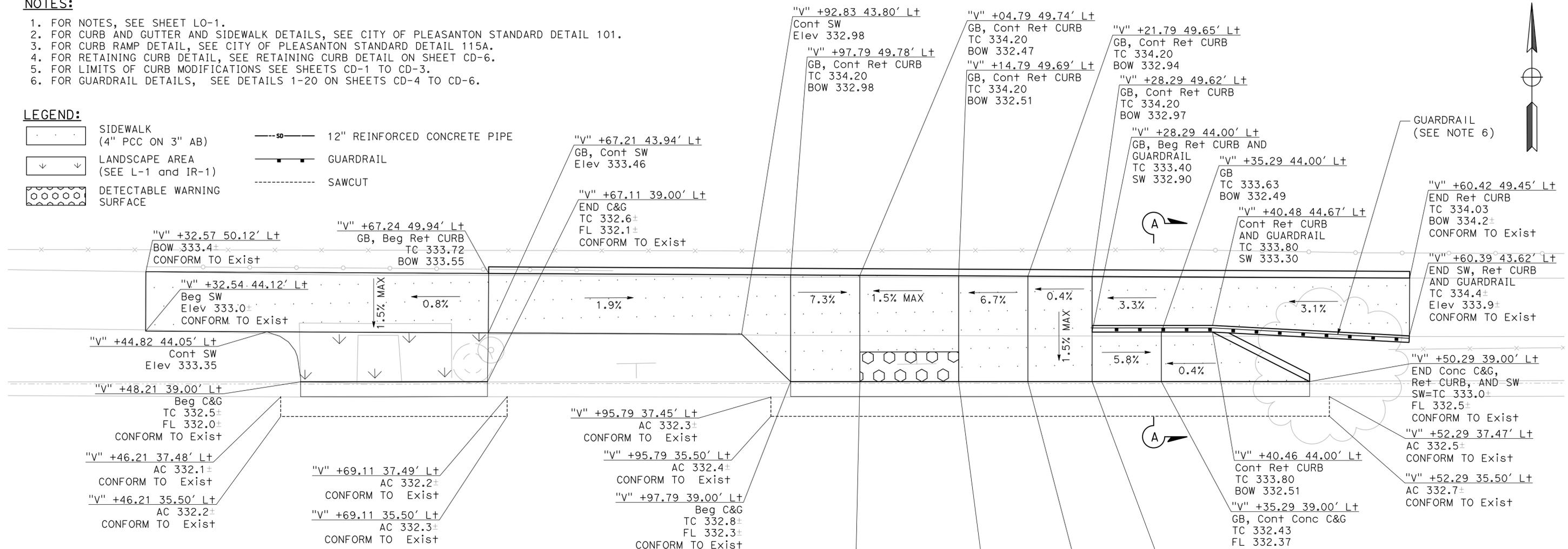
SCALE: 1"=20'    DATE: 1/17/2024    PIN: AL-20106    **D-1**    SHEET: 07 OF 20

**NOTES:**

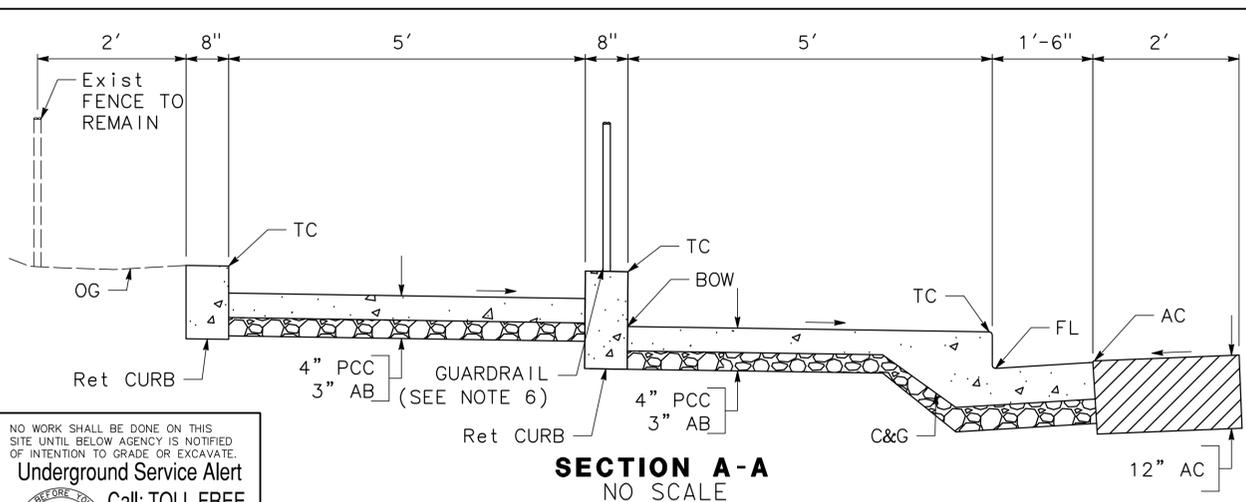
1. FOR NOTES, SEE SHEET LO-1.
2. FOR CURB AND GUTTER AND SIDEWALK DETAILS, SEE CITY OF PLEASANTON STANDARD DETAIL 101.
3. FOR CURB RAMP DETAIL, SEE CITY OF PLEASANTON STANDARD DETAIL 115A.
4. FOR RETAINING CURB DETAIL, SEE RETAINING CURB DETAIL ON SHEET CD-6.
5. FOR LIMITS OF CURB MODIFICATIONS SEE SHEETS CD-1 TO CD-3.
6. FOR GUARDRAIL DETAILS, SEE DETAILS 1-20 ON SHEETS CD-4 TO CD-6.

**LEGEND:**

- SIDEWALK (4" PCC ON 3" AB)
- LANDSCAPE AREA (SEE L-1 and IR-1)
- DETECTABLE WARNING SURFACE
- 12" REINFORCED CONCRETE PIPE
- GUARDRAIL
- SAWCUT



VALLEY AVE



NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

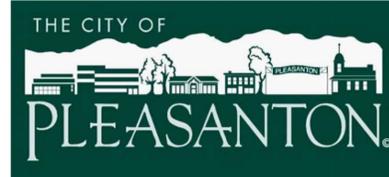
**Underground Service Alert**  
Call: TOLL FREE  
1-800-642-2444  
TWO WORKING DAYS BEFORE YOU DIG

CURVE TABLE				
No.	X	R	Δ	T L
(C1)		2.90'	90°07'33"	2.91' 4.56'

NORTHWAY RD

**100% SUBMITTAL**  
SCALE: 1"=5'

**MARK THOMAS**  
1970 BROADWAY, SUITE 760  
OAKLAND, CA 94612  
(510) 844-5600



REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED

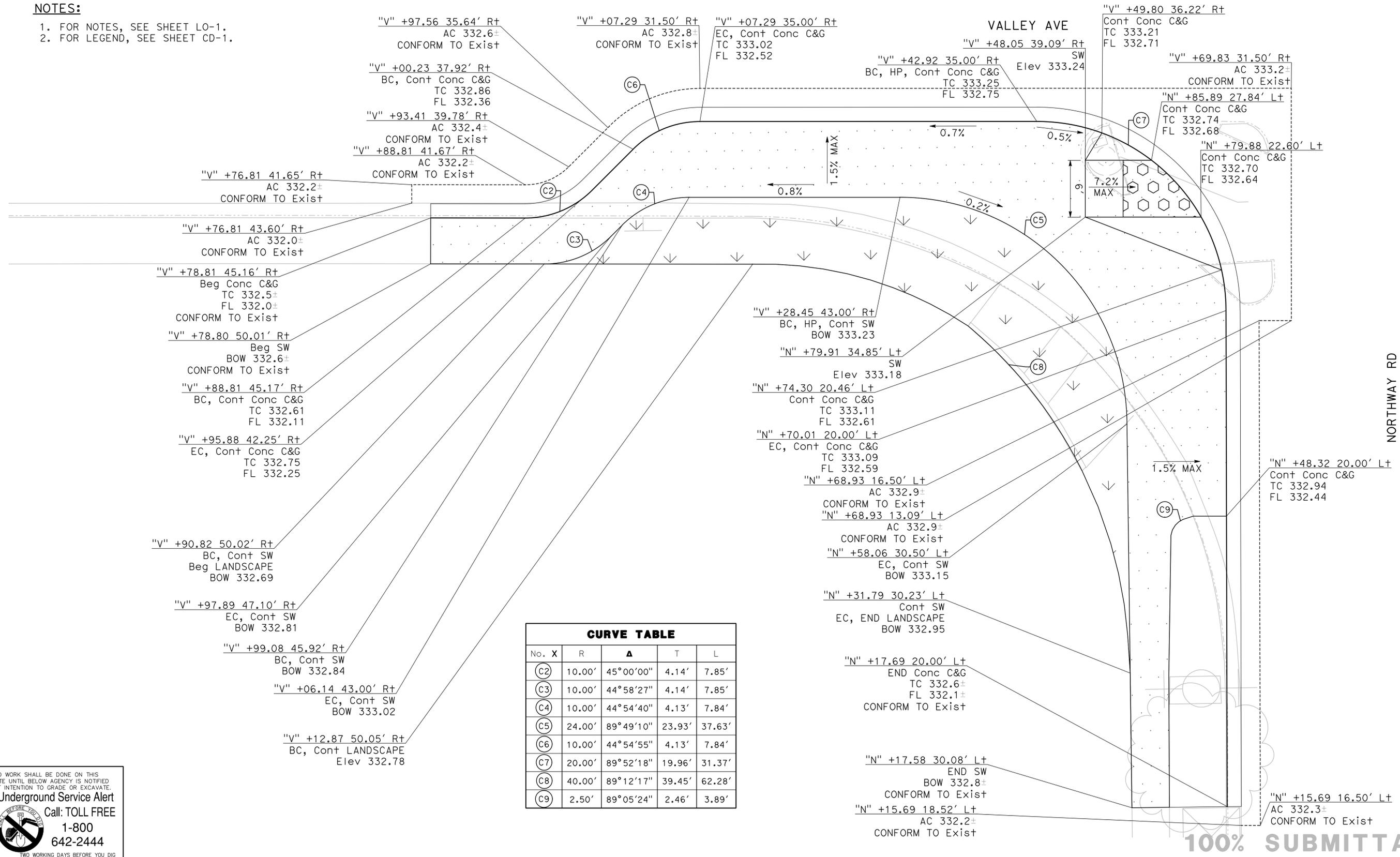
DESIGNED BY: AL  
DRAWN BY: AS

**CITY OF PLEASANTON**  
**VALLEY AVE & NORTHWAY RD**  
**INTERSECTION IMPROVEMENTS**  
**CONSTRUCTION DETAILS**

SCALE: 1"=5'    DATE: 1/17/2024    PIN: AL-20106    **CD-1**    SHEET: 08 OF 20

**NOTES:**

1. FOR NOTES, SEE SHEET LO-1.
2. FOR LEGEND, SEE SHEET CD-1.



CURVE TABLE				
No. X	R	Δ	T	L
(C2)	10.00'	45°00'00"	4.14'	7.85'
(C3)	10.00'	44°58'27"	4.14'	7.85'
(C4)	10.00'	44°54'40"	4.13'	7.84'
(C5)	24.00'	89°49'10"	23.93'	37.63'
(C6)	10.00'	44°54'55"	4.13'	7.84'
(C7)	20.00'	89°52'18"	19.96'	31.37'
(C8)	40.00'	89°12'17"	39.45'	62.28'
(C9)	2.50'	89°05'24"	2.46'	3.89'

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

**Underground Service Alert**

Call: TOLL FREE  
1-800-642-2444

TWO WORKING DAYS BEFORE YOU DIG

**100% SUBMITTAL**

0 2.5 5  
SCALE: 1"=5'

**MARK THOMAS**

1970 BROADWAY, SUITE 760  
OAKLAND, CA 94612  
(510) 844-5600

THE CITY OF  
**PLEASANTON**

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED

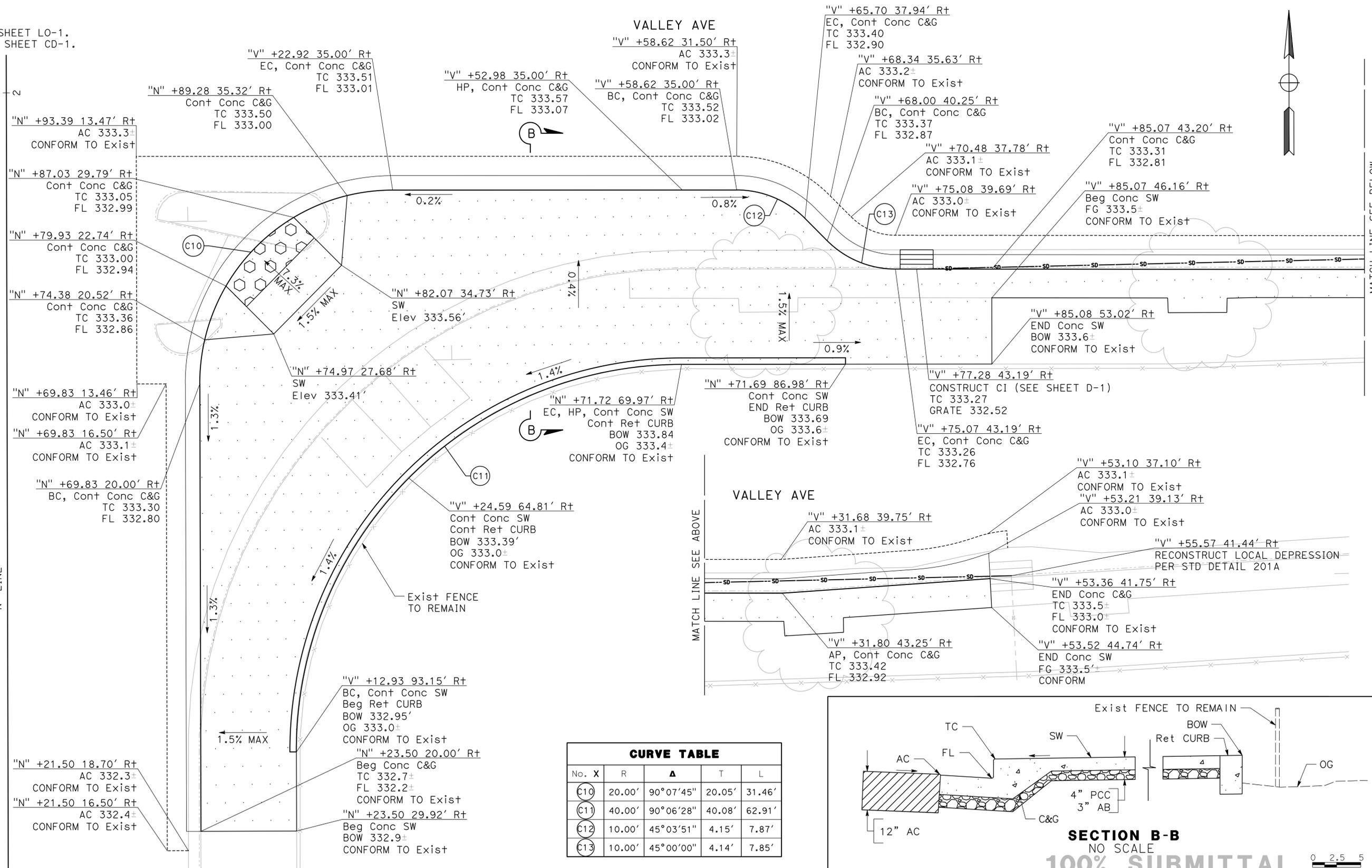
DESIGNED BY: AL  
DRAWN BY: AS

**CITY OF PLEASANTON**  
**VALLEY AVE & NORTHWAY RD**  
**INTERSECTION IMPROVEMENTS**  
**CONSTRUCTION DETAILS**

SCALE: 1"=5'    DATE: 1/17/2024    PIN: AL-20106    **CD-2**    SHEET: 09 OF 20

**NOTES:**

- FOR NOTES, SEE SHEET LO-1.
- FOR LEGEND, SEE SHEET CD-1.



MATCH LINE SEE BELOW

NORTHWAY RD

"N" LINE

MATCH LINE SEE ABOVE

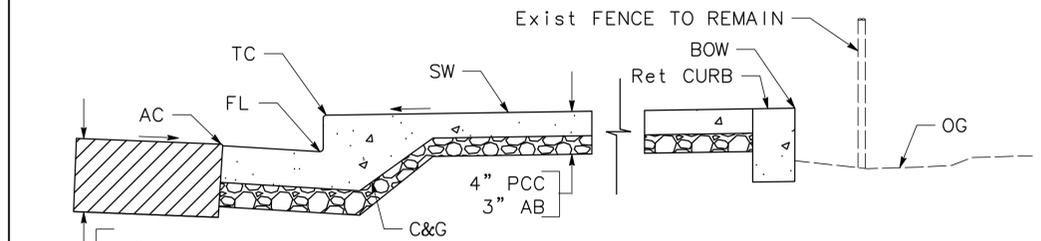
NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

**Underground Service Alert**

Call: TOLL FREE 1-800 642-2444

TWO WORKING DAYS BEFORE YOU DIG

CURVE TABLE				
No. X	R	Δ	T	L
C10	20.00'	90°07'45"	20.05'	31.46'
C11	40.00'	90°06'28"	40.08'	62.91'
C12	10.00'	45°03'51"	4.15'	7.87'
C13	10.00'	45°00'00"	4.14'	7.85'



**SECTION B-B**  
NO SCALE  
**100% SUBMITTAL**

0 2.5 5  
SCALE: 1"=5'

**MARK THOMAS**

1970 BROADWAY, SUITE 760  
OAKLAND, CA 94612  
(510) 844-5600

THE CITY OF  
**PLEASANTON**

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED

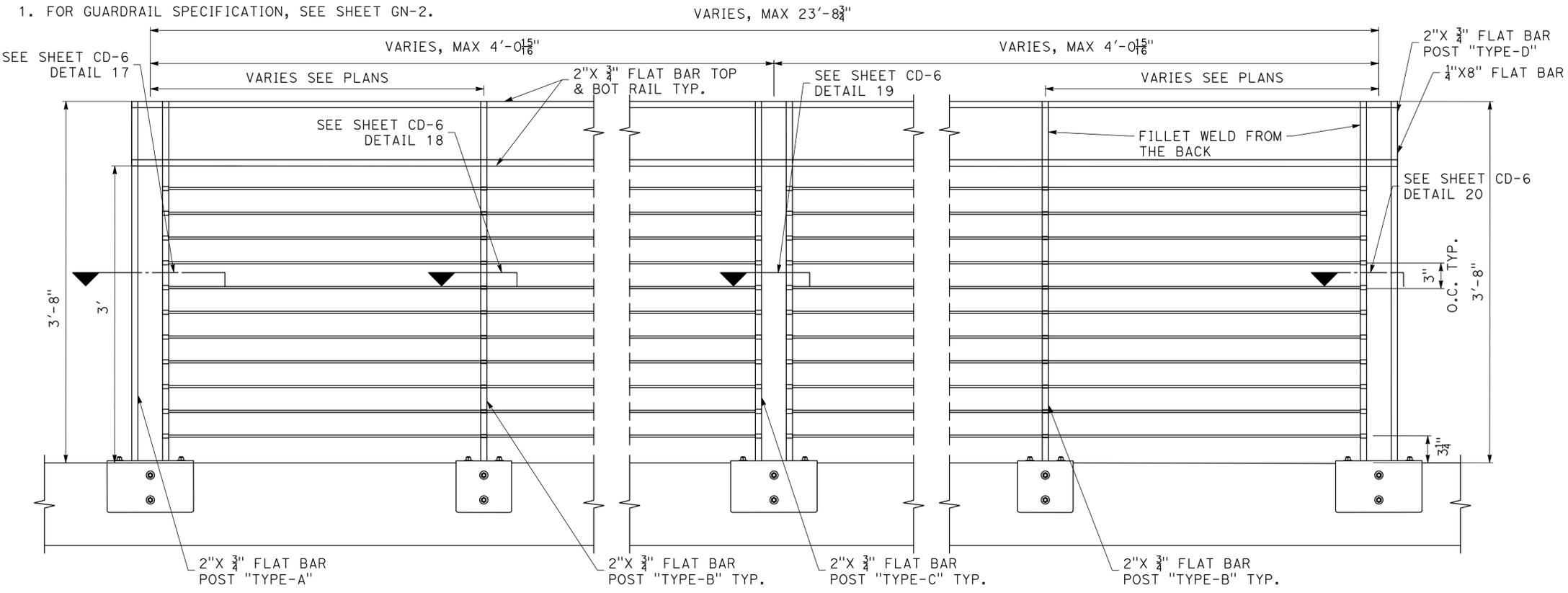
DESIGNED BY: AL  
DRAWN BY: AS

**CITY OF PLEASANTON**  
**VALLEY AVE & NORTHWAY RD**  
**INTERSECTION IMPROVEMENTS**  
**CONSTRUCTION DETAILS**

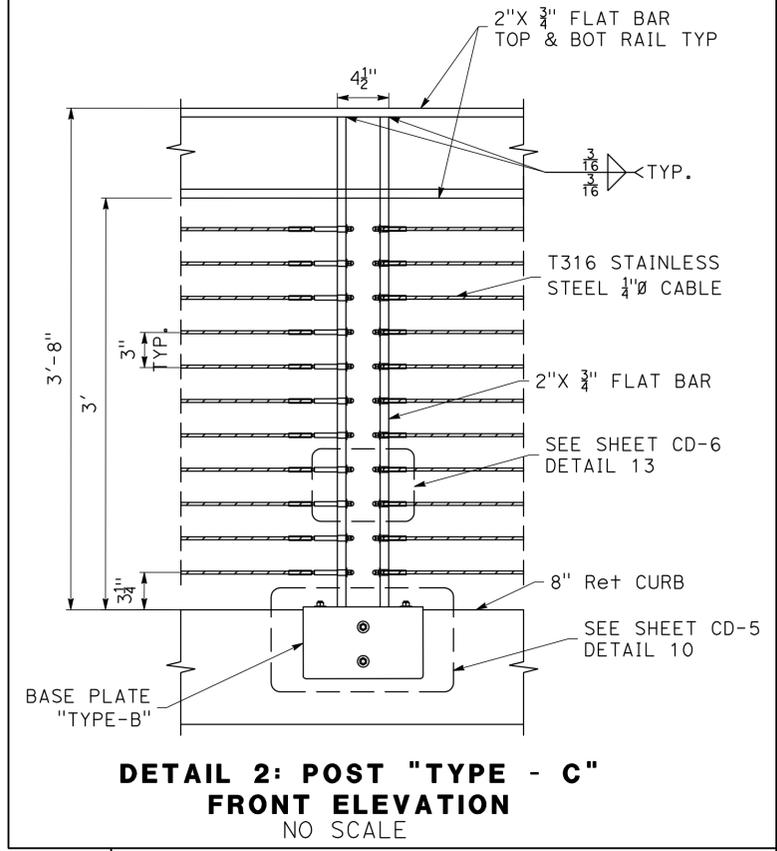
SCALE: 1"=5'    DATE: 1/17/2024    PIN: AL-20106    **CD-3**    SHEET: 10 OF 20

**NOTES:**

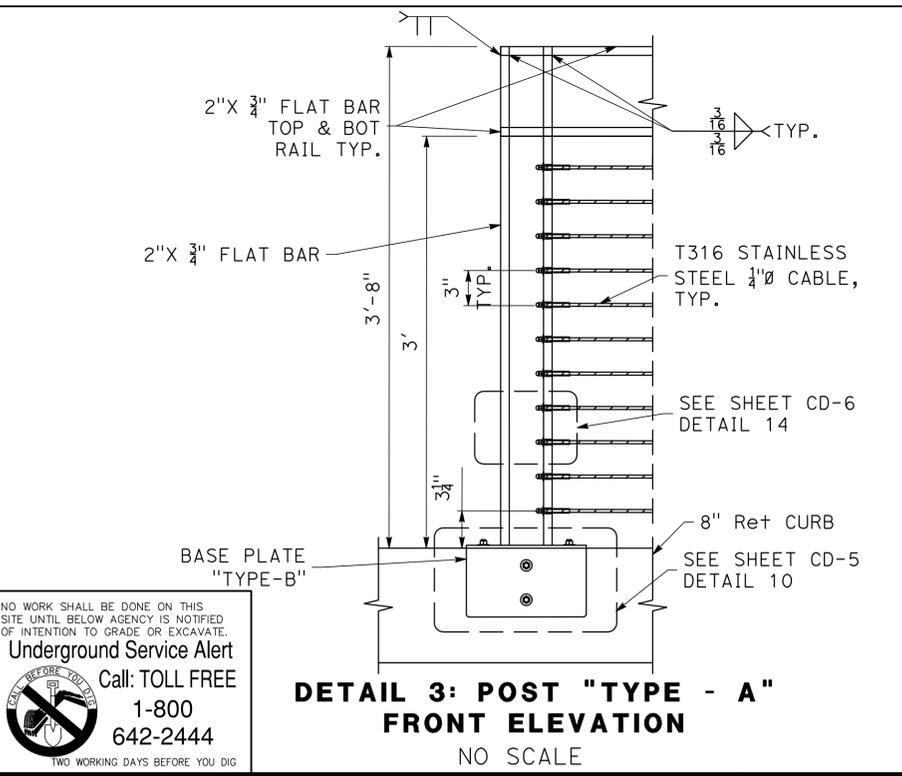
1. FOR GUARDRAIL SPECIFICATION, SEE SHEET GN-2.



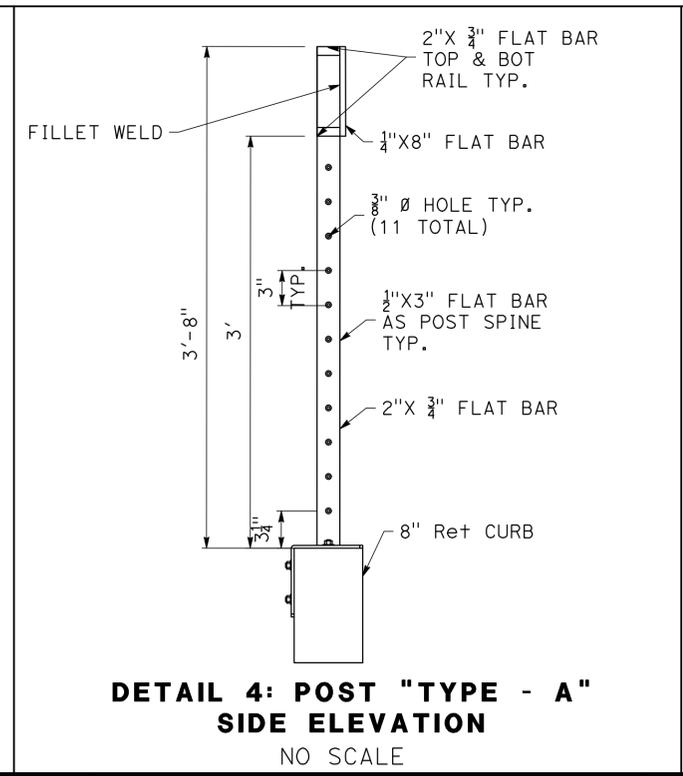
**DETAIL 1: ELEVATION**  
NO SCALE



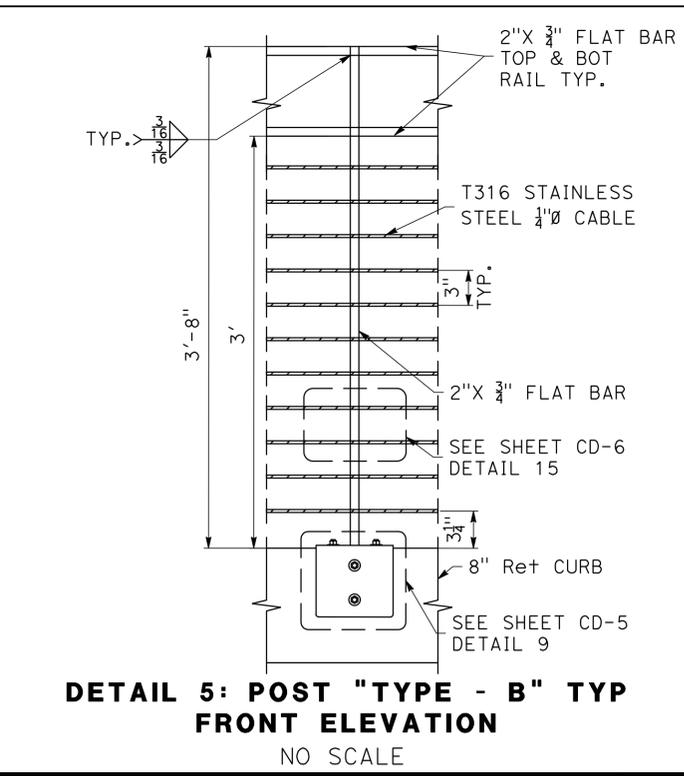
**DETAIL 2: POST "TYPE - C"**  
**FRONT ELEVATION**  
NO SCALE



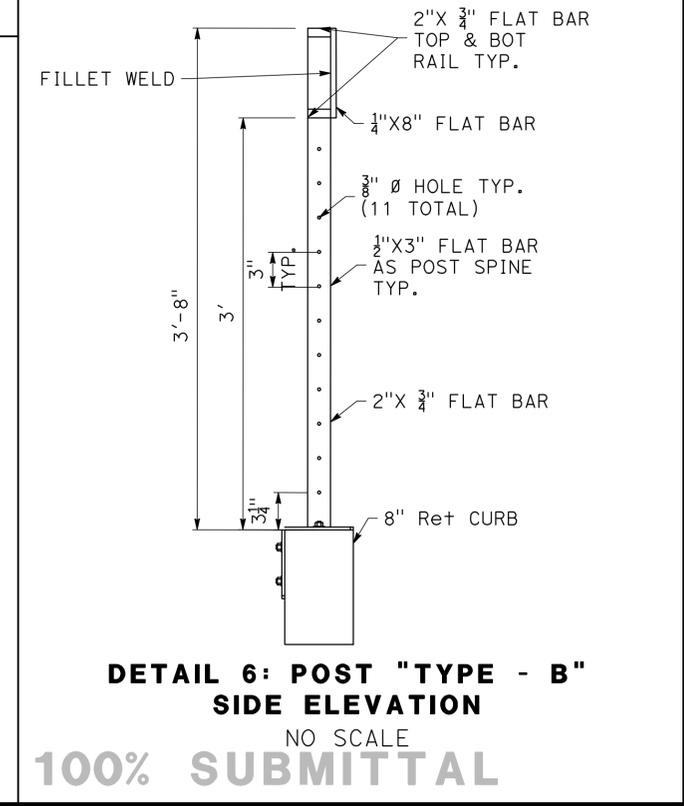
**DETAIL 3: POST "TYPE - A"**  
**FRONT ELEVATION**  
NO SCALE



**DETAIL 4: POST "TYPE - A"**  
**SIDE ELEVATION**  
NO SCALE



**DETAIL 5: POST "TYPE - B" TYP**  
**FRONT ELEVATION**  
NO SCALE

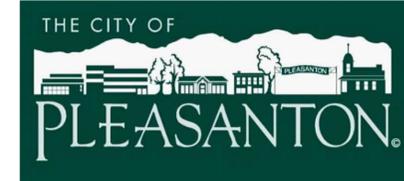


**DETAIL 6: POST "TYPE - B"**  
**SIDE ELEVATION**  
NO SCALE

**100% SUBMITTAL**

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1-800  
642-2444  
TWO WORKING DAYS BEFORE YOU DIG

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OAKLAND, CA 94612  
(510) 844-5600



REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED

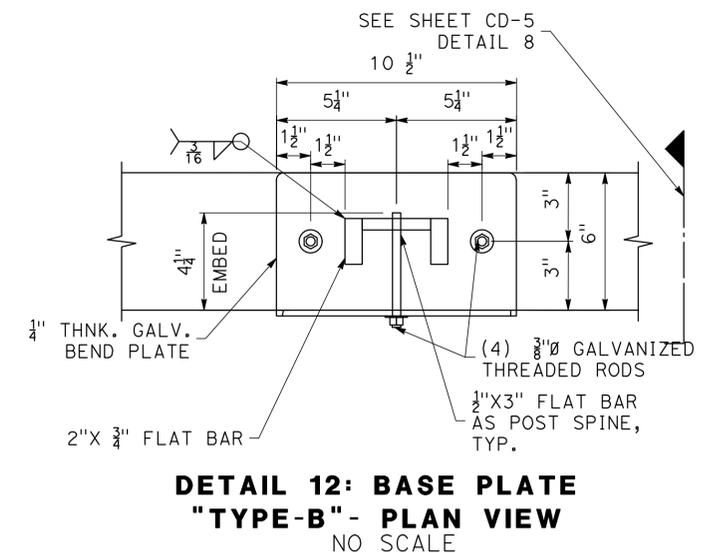
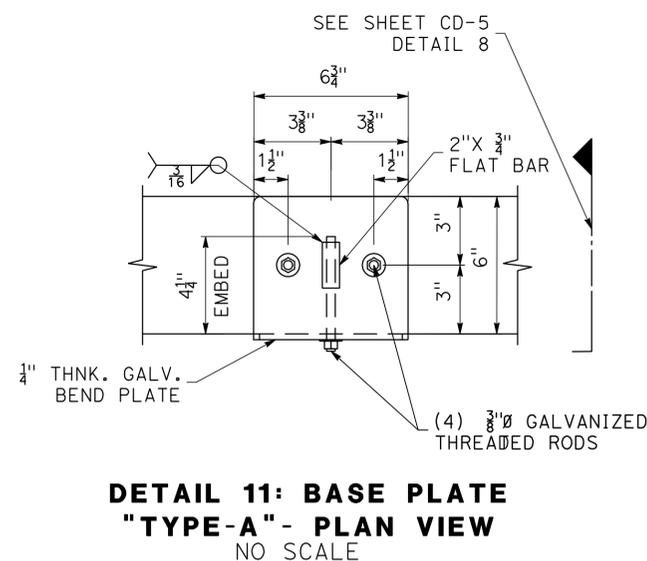
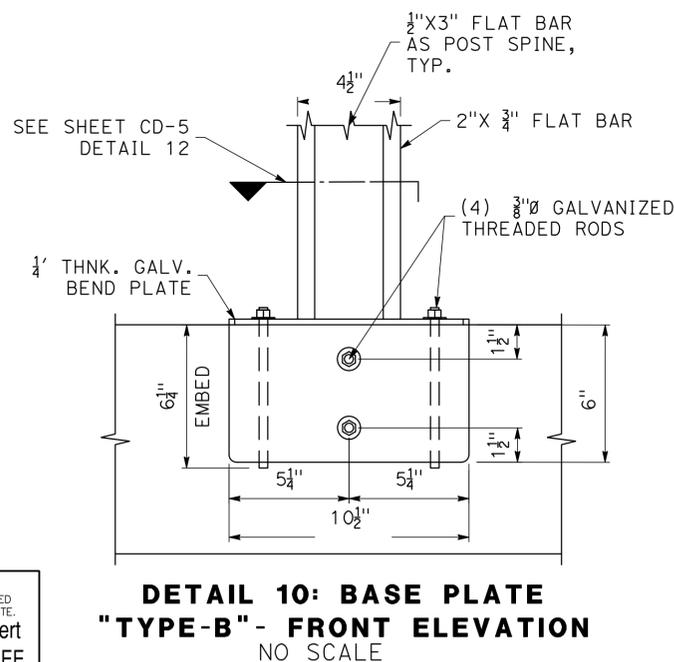
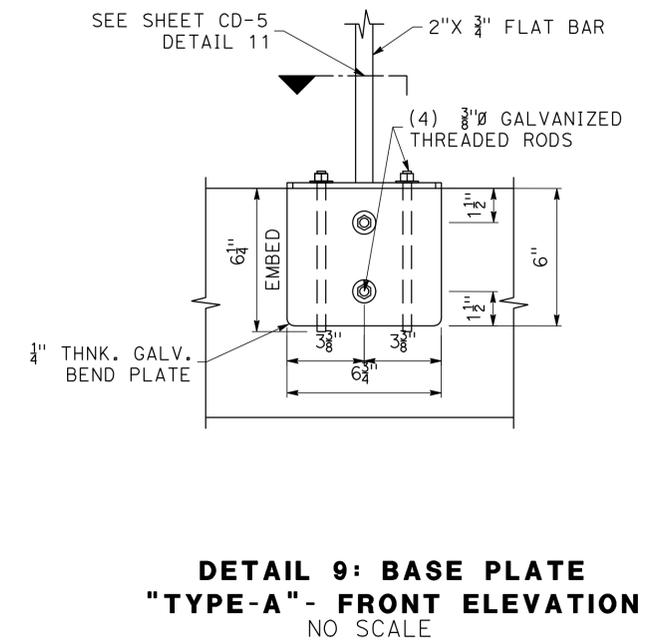
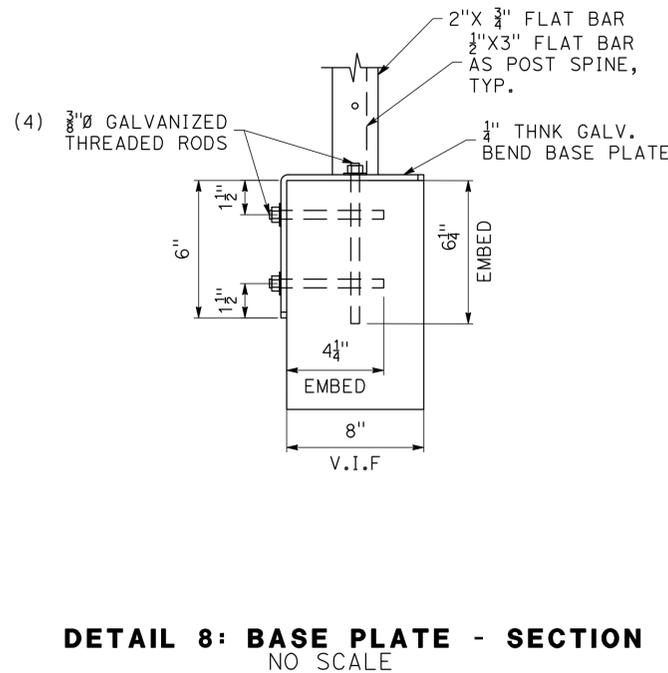
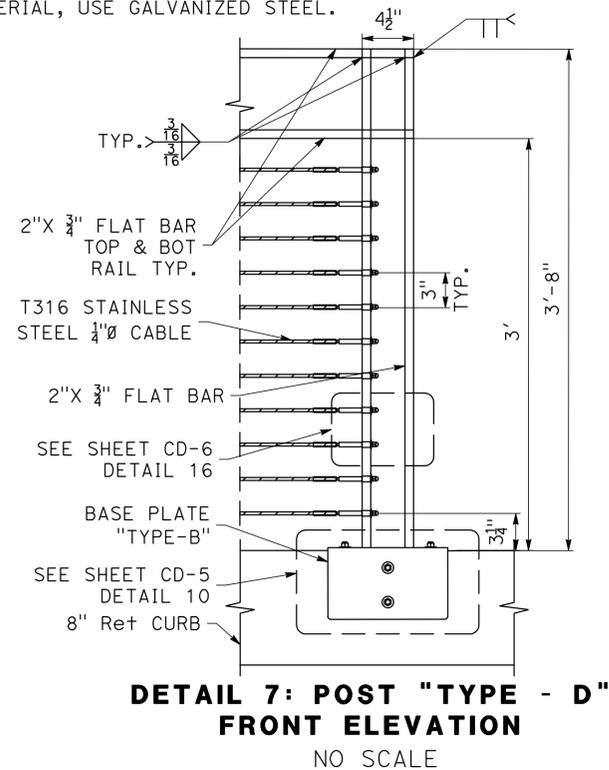
DESIGNED BY: AL  
DRAWN BY: AS

**CITY OF PLEASANTON**  
**VALLEY AVE & NORTHWAY RD**  
**INTERSECTION IMPROVEMENTS**  
**CONSTRUCTION DETAILS**

SCALE: NO SCALE	DATE: 1/17/2024	PIN: AL-20106	<b>CD-4</b>	SHEET: 11 OF 20
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**NOTES:**

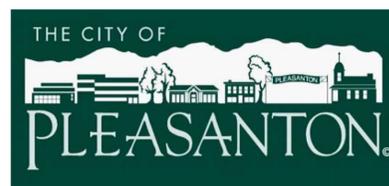
1. FOR NOTES, SEE SHEET LO-1.
2. FOR LEGEND, SEE SHEET CD-1.
3. FOR POST MATERIAL, USE GALVANIZED STEEL.



NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.  
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**100% SUBMITTAL**

**MARK THOMAS**  
1970 BROADWAY, SUITE 760  
OAKLAND, CA 94612  
(510) 844-5600

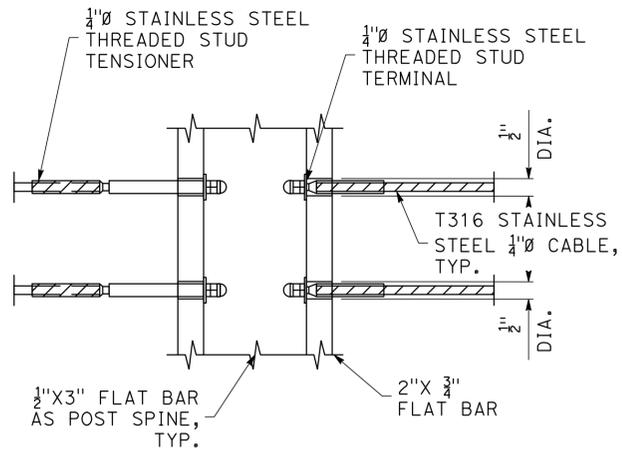


REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED

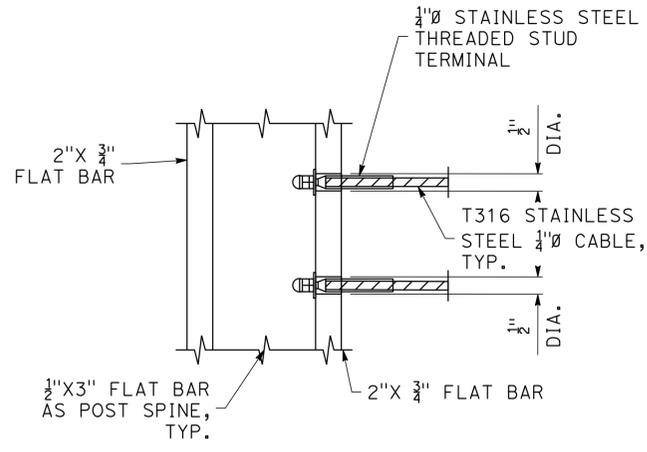
DESIGNED BY: AL  
DRAWN BY: AS

**CITY OF PLEASANTON**  
**VALLEY AVE & NORTHWAY RD**  
**INTERSECTION IMPROVEMENTS**  
**CONSTRUCTION DETAILS**

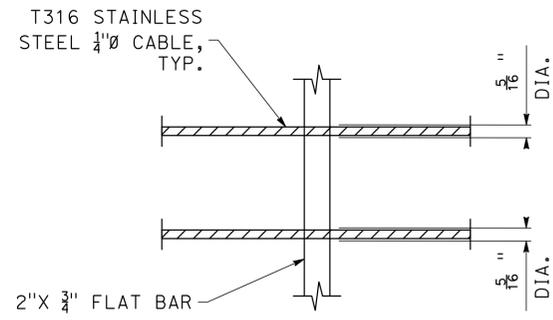
SCALE: NO SCALE    DATE: 1/17/2024    PIN: AL-20106    **CD-5**    SHEET: 12 OF 20



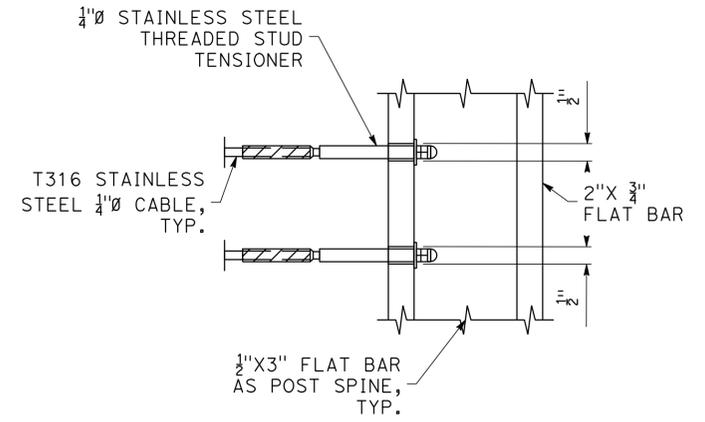
**DETAIL 13**  
NO SCALE



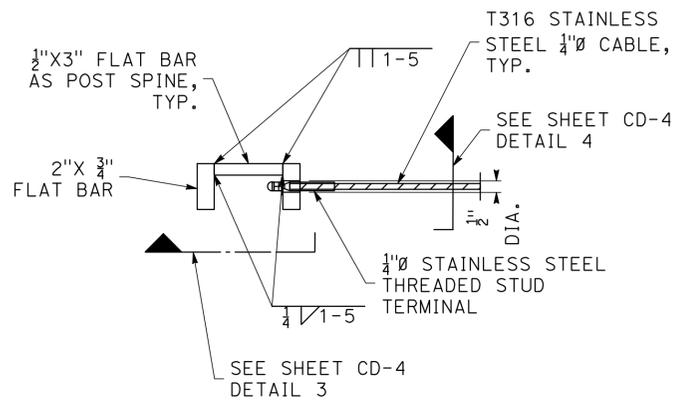
**DETAIL 14**  
NO SCALE



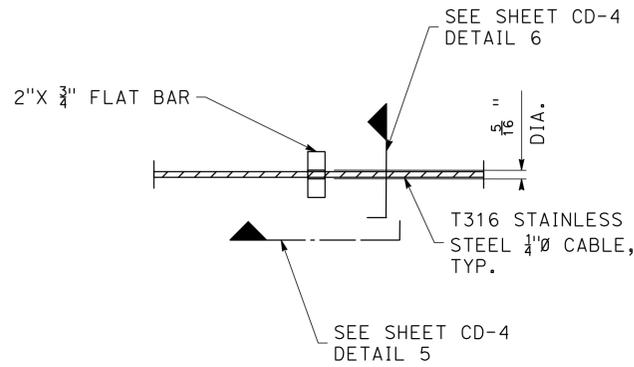
**DETAIL 15**  
NO SCALE



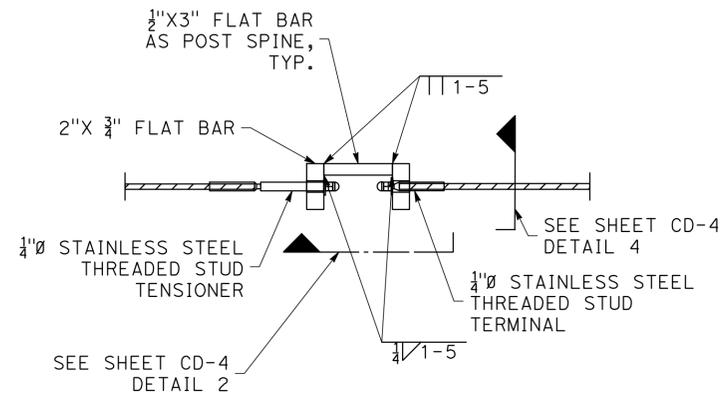
**DETAIL 16**  
NO SCALE



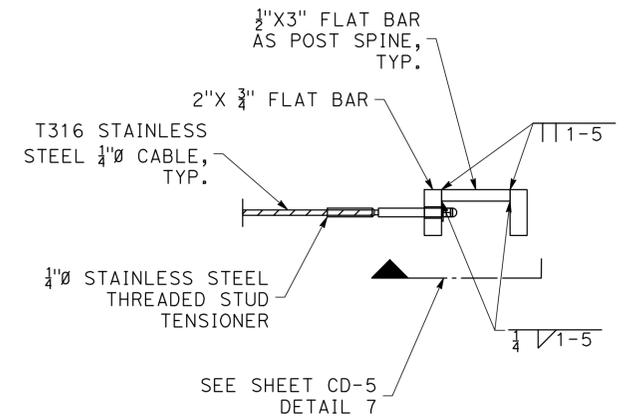
**DETAIL 17: POST "TYPE - A"**  
**PLAN VIEW**  
NO SCALE



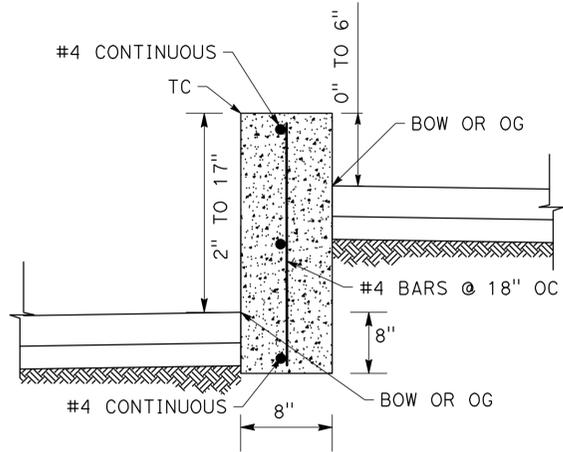
**DETAIL 18: POST "TYPE - B" TYP.**  
**PLAN VIEW**  
NO SCALE



**DETAIL 19: POST "TYPE - C" TYP.**  
**PLAN VIEW**  
NO SCALE



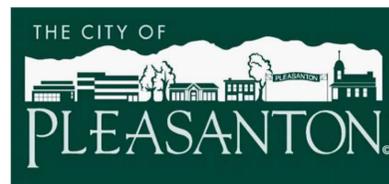
**DETAIL 20: POST "TYPE - D"**  
**PLAN VIEW**  
NO SCALE



**DETAIL 22: 8" RETAINING CURB**  
NO SCALE

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.  
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1-800  
642-2444  
TWO WORKING DAYS BEFORE YOU DIG

**MARK THOMAS**  
1970 BROADWAY, SUITE 760  
OAKLAND, CA 94612  
(510) 844-5600



REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED

DESIGNED BY: AL  
DRAWN BY: AS

**100% SUBMITTAL**

**CITY OF PLEASANTON**  
**VALLEY AVE & NORTHWAY RD**  
**INTERSECTION IMPROVEMENTS**  
**CONSTRUCTION DETAILS**

SCALE: NO SCALE    DATE: 1/17/2024    PIN: AL-20106    **CD-6**    SHEET: 13 OF 20

**PLANT LEGEND**

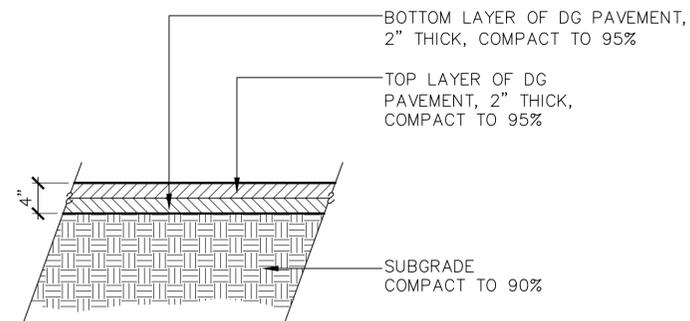
⊙ EXISTING TREE TO REMAIN

**PLANT LIST**

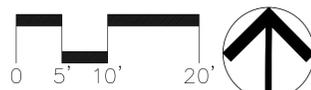
ABBREV.	BOTANICAL NAME	COMMON NAME	SIZE	WATER	SPACING	QUANTITY	NOTES
<b>SHRUBS</b>							
YUC FIL	YUCCA FILAMENTOSA 'COLORGUARD'	ADAM'S NEEDLE	1 GAL	L	4'-0" O.C.	8	INSTALL PER CITY DETAIL 809
<b>GROUNDCOVERS</b>							
BAC PIL	BACCHARIS PILULARIS 'CENTENNIAL'	CENTENNIAL COYOTE BRUSH	1 GAL	VL	6'-0" O.C.	11	INSTALL PER CITY DETAIL 809
HED HEL	HEDERA HELIX	ENGLISH IVY	1 GAL	M	AS SHOWN	8	INSTALL PER CITY DETAIL 809
<b>MULCH</b>							
<b>DECOMPOSED GRANITE</b> (L2)							

**PLANTING NOTES**

- MULCH:** CONTRACTOR SHALL INSTALL A 3-INCH LAYER OF MULCH IN THE NEW PLANTING AREA WITH HEDERA HELIX. MULCH TO BE PROVIDED BY THE CITY. CONTRACTOR SHALL BE RESPONSIBLE FOR PICKING UP THE MULCH FROM THE CITY CORPORATION YARD AND DELIVERING THE MULCH TO THE SITE. CONTRACTOR SHALL COORDINATE WITH THE CITY A MINIMUM OF ONE WEEK IN ADVANCE OF MULCH PICK-UP.
- DECOMPOSED GRANITE:** CONTRACTOR SHALL INSTALL A 4-INCH LAYER OF DECOMPOSED GRANITE 'GOLD COLOR' IN THE PLANTING AREA (TOTALING 596 SQ. FT.) ON THE SW CORNER OF VALLEY AND NORTHWAY AS SHOWN.
- EXISTING PLANT MATERIAL:** REMOVE ALL SHRUBS FROM THE PROPOSED PLANTING AREA. PROTECT ALL OTHER EXISTING PLANT MATERIAL TO REMAIN. REPAIR ANY DAMAGES INCURRED AS A DIRECT RESULT OF THIS CONTRACT TO THE CITY'S SATISFACTION AT NO ADDITIONAL COST.
- GROUNDCOVER:** PROVIDE GROUNDCOVER AT INDICATED ON-CENTER SPACING THROUGHOUT ALL AREAS TO BE PLANTED. GROUNDCOVER SHALL BE PROVIDED UP TO THE WATERING BASIN OF ALL TREES AND SHRUBS.
- QUANTITIES:** THE QUANTITIES SHOWN ON THE LABELS ARE NOT TO BE CONSTRUED AS THE COMPLETE AND ACCURATE LIMITS OF THE CONTRACT. FURNISH AND INSTALL ALL PLANTS SHOWN SCHEMATICALLY ON THE DRAWINGS.
- TOPSOIL:** ALL PLANTING AREAS TO RECEIVE A SIX INCH LAYER OF NATIVE TOPSOIL PER CITY STD. SPECIFICATIONS.
- STANDARDS:** INSTALL ALL PLANTING PER CITY OF PLEASANTON STANDARD DETAILS AND SPECIFICATIONS.
- MAINTENANCE:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PLANTING AND IRRIGATION FOR A 90-DAY PERIOD UPON THE CITY DEEMING THE IMPROVEMENTS SUBSTANTIALLY COMPLETE. THE CONTRACTOR SHALL CONTINUE TO BE RESPONSIBLE FOR MAINTAINING THE IMPROVEMENTS UNTIL ALL PUNCH LIST ITEMS FROM THE SUBSTANTIAL COMPLETION WALK HAVE BEEN COMPLETED EVEN IF THE 90 DAY MAINTENANCE PERIOD IS COMPLETE.

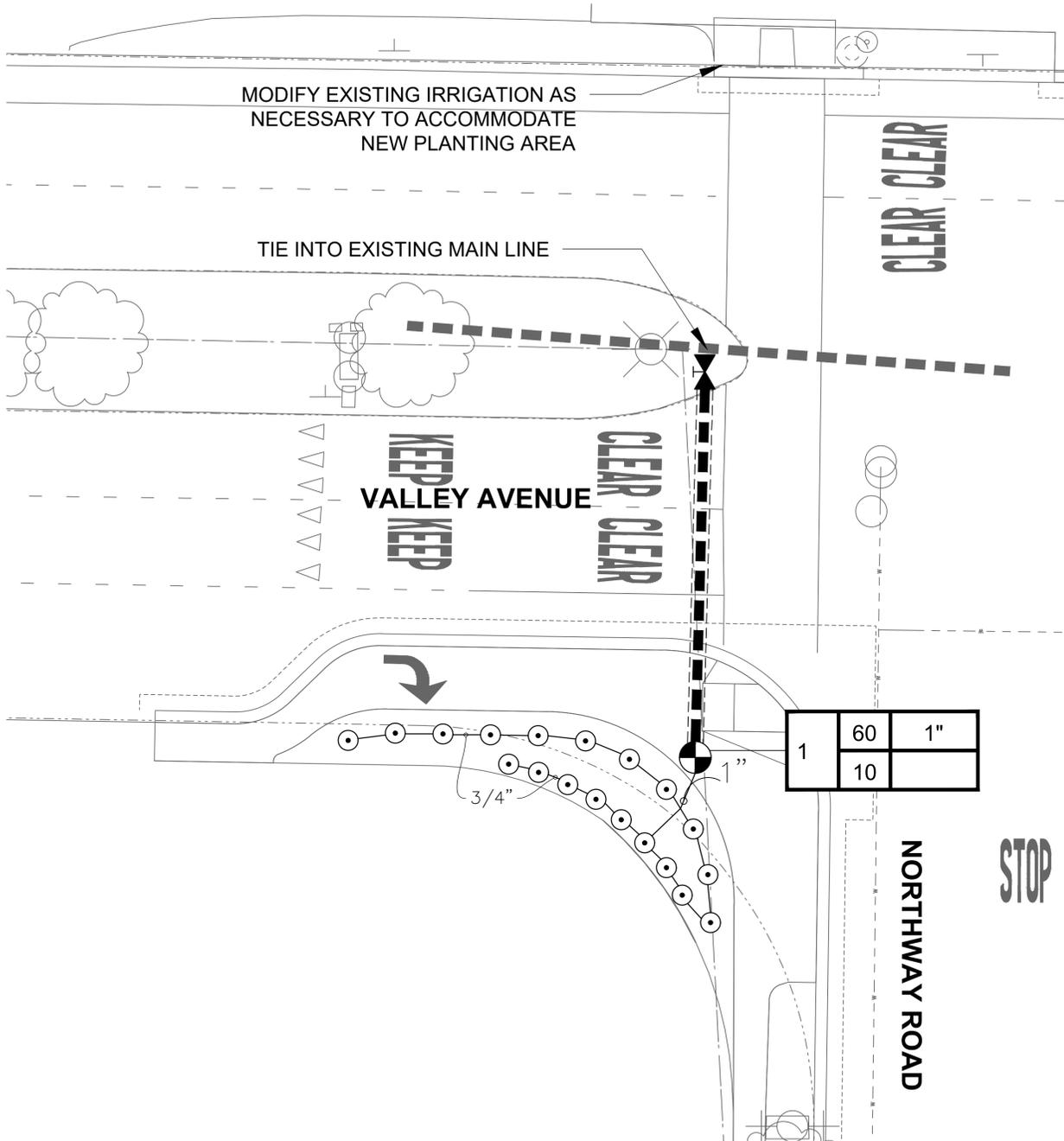


- NOTES:
- BOTTOM LAYER OF DG PAVING SHALL BE COMPACTED BEFORE INSTALLATION OF TOP LAYER.
  - INSTALL HEADERBOARD PER CITY STANDARD DETAIL 813 ON ALL EDGES OF DG THAT ARE NOT ADJACENT TO PAVING OR CURBS. DG SHALL BE FLUSH WITH ADJACENT PAVEMENT AND CURB.



1 PLANTING PLAN  
L2

2 DECOMPOSED GRANITE SECTION  
L2



**EXISTING IRRIGATION**

— IRRIGATION MAINLINE, EX.

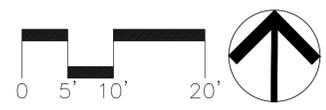
**IRRIGATION LEGEND**

- ⊙ BUBBLER, RAINBIRD, 1402 INSTALL PER CITY STD. DETAIL 815
- MAIN LINE, SCH 40 PVC 1-1/2". INSTALL PER CITY STD. 804
- - - SLEEVE SCH 40 PVC 4" SIZE
- LATERAL LINE, SCH 40 PVC, SIZE PER PLAN. INSTALL PER CITY STD. DETAIL 804
- ⊙ REMOTE CONTROL VALVE, GRISWOLD DWS SERIES, 1" SIZE, INSTALL PER CITY STD. DETAIL 801 WITH HUNTER NODE-100 IN VALVE BOX
- ⊗ ISOLATION VALVE, FORD, B-11 SERIES, LINE SIZE, INSTALL PER CITY STD. DETAIL 803

1	60	1"	VALVE # OPERATING PRESSURE VALVE SIZE APPROXIMATE GPM THROUGH VALVE
	10		

**IRRIGATION NOTES**

1. **SPECIFICATIONS:** SEE CITY STANDARD IRRIGATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. **VERIFICATION:** SYSTEM DESIGN IS BASED ON 60 P.S.I. AND 10 GPM AVAILABLE AT DISCHARGE OUTLET OF METER. VERIFY SAME AND NOTIFY THE CITY IF SUCH DATA ADVERSELY AFFECTS THE OPERATION OF THE SYSTEM. NOTICE SHALL BE MADE IN WRITING AND PRIOR TO COMMENCING ANY IRRIGATION WORK.
3. **UTILITIES:** VERIFY LOCATION OF ALL ON-SITE UTILITIES. RESTORATION OF DAMAGED UTILITIES SHALL BE MADE AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CITY.
4. **SCHEMATIC:** SYSTEM FEATURES ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. INSTALL ALL PIPING AND VALVES IN COMMON TRENCHES WHERE FEASIBLE AND INSIDE PLANTING AREAS WHENEVER POSSIBLE. ALL VALVES SHALL BE LOCATED IN GROUND COVER OR SHRUB AREAS WHENEVER POSSIBLE.
5. **CODES:** IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND MANUFACTURER'S SPECIFICATIONS. NOTIFY CITY'S REPRESENTATIVE BY TELEPHONE AND IN WRITING OF ANY CONFLICTS PRIOR TO INSTALLATION.
6. **MAINLINE BREAK:** SHOULD THE EXISTING MAINLINE BREAK OR BE SHUT OFF FOR ANY REASON DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR SHALL HAND WATER ALL TREES, SHRUBS, AND GROUND COVER THAT THE EXISTING IRRIGATION SYSTEM WATERS. CONTINUE TO DO SO UNTIL THE IRRIGATION SYSTEM IS OPERABLE.
7. **SYSTEM TEST:** OPERATE EACH VALVE PRIOR TO COMMENCING WORK AND DOCUMENT FUNCTIONALITY.
8. **TRENCHING:** ALL IRRIGATION TRENCHING WITHIN 8 FEET OF EXISTING TREES SHALL BE DUG BY HAND WITH CARE TAKEN TO PROTECT ROOTS GREATER THAN 1-INCH DIA. AND TO ADHERE TO CITY STANDARDS FOR ROOT PRUNING.



1 IRRIGATION  
L1 PLAN

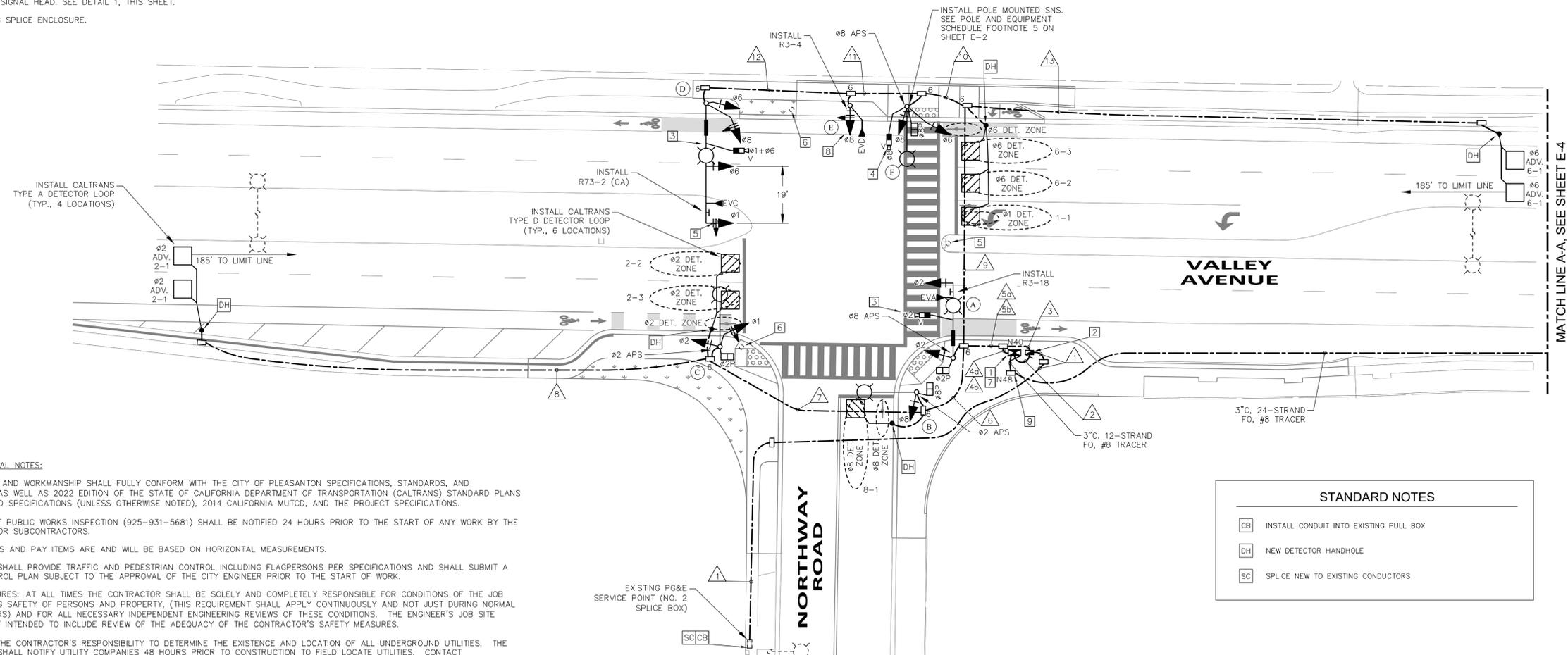
REV.	DATE	DESCRIPTION	<p>THE CITY OF PLEASANTON</p>	<p>CITY OF PLEASANTON Department of Engineering</p>	<p>ADAM NELKIE CITY ENGINEER NO. 78830 EXP. 9/30/2025</p>	<p>IRRIGATION PLAN</p> <p>VALLEY AVENUE AND NORTHWAY ROAD IMPROVEMENTS</p>	DESIGN: MG	SCALE: AS SHOWN	DWG NO.
							DRAWN: MW	PROJECT NO.: CIP-23532	IR-1
							CHECKED: AN	DATE: JANUARY 17, 2024	15 OF 20
							TRAFFIC ENGINEER: CN		

**PROJECT NOTES (THIS SHEET ONLY):**

- 1 FURNISH AND INSTALL TRAFFICWARE SHELF MOUNT COMMANDER ATC NT2 CONTROLLER IN "STRETCH P" TS2 TYPE 1 CABINET PER PROJECT SPECIFICATIONS. INSTALL FOUNDATION FOR NEW TYPE "STRETCH P" CONTROLLER CABINET PER THE 2018 CALTRANS STANDARD PLAN ES-3B DATED MAY 31, 2018. CABINET SHALL BE PAINTED #14109 FED STANDARD 595B COLOR. CABINET DOORS SHALL FACE SOUTH.
- 2 FURNISH AND INSTALL TYPE III SERVICE ENCLOSURE PER PROJECT SPECIFICATIONS. PROVIDE EQUIPMENT ITEMS 1 THROUGH 8, 10 (TWO INTERNAL), 15 THROUGH 17, 20 THROUGH 25, AND 27 PER THE SERVICE WIRING DIAGRAM ON THE 2018 CALTRANS STANDARD PLAN ES-2D DATED MAY 31, 2018, EXCEPT AN ADDITIONAL 30 AMP, 120V, 1-POLE CIRCUIT BREAKER SHALL BE PROVIDED FOR THE BATTERY BACKUP SYSTEM. SERVICE ENCLOSURE SHALL BE MILBANK (CP3A C-SIZE BBU) TYPE III PAINTED #14109 FED STANDARD 595B COLOR WITH ALPHA FXMHP 1100 UPS MODULE.
- 3 FURNISH AND INSTALL ECONOLITE VISION VIDEO DETECTION CAMERA ON LUMINAIRE MAST ARM (TYP., 2 LOCATIONS, THIS SHEET).
- 4 FURNISH AND INSTALL ECONOLITE VISION VIDEO DETECTION CAMERA, SIDE-MOUNTED ON POLE SHAFT.
- 5 EXISTING STREET LIGHT POLE TO BE REMOVED. SEE SHEET E-3. MODIFY EXISTING STREET LIGHT CONDUIT AND CONDUCTORS AS NECESSARY TO MAINTAIN STREET LIGHT CIRCUIT CONTINUITY AFTER REMOVAL OF STREET LIGHTS.
- 6 EXISTING SIGNAL POLE AND RRFB EQUIPMENT TO BE SALVAGED. SEE SHEET E-3.
- 7 FURNISH AND INSTALL RUGGEDCOM FIBER SWITCH RS900 SERIES. PART NUMBER TO BE APPROVED BY CITY OF PLEASANTON TRAFFIC ENGINEERING.
- 8 INSTALL 4-SECTION SIGNAL HEAD. SEE DETAIL 1, THIS SHEET.
- 9 INSTALL FIBER OPTIC SPLICE ENCLOSURE.

**EMERGENCY VEHICLE PREEMPT**

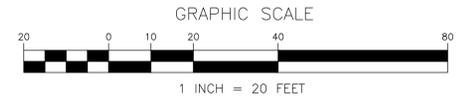
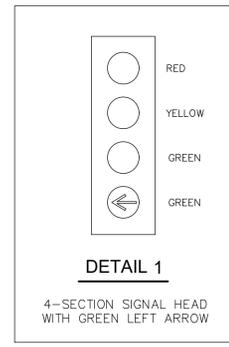
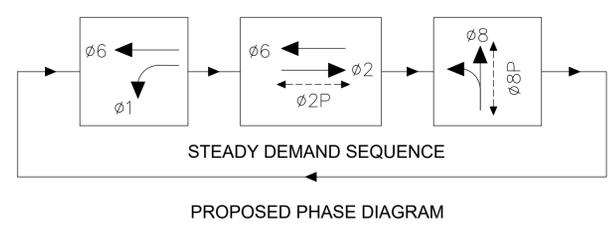
- CHANNEL A =  $\phi 2$
- CHANNEL C =  $\phi 1 + \phi 6$
- CHANNEL D =  $\phi 8$



**GENERAL ELECTRICAL NOTES:**

1. ALL MATERIAL AND WORKMANSHIP SHALL FULLY CONFORM WITH THE CITY OF PLEASANTON SPECIFICATIONS, STANDARDS, AND ORDINANCES, AS WELL AS 2022 EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND STANDARD SPECIFICATIONS (UNLESS OTHERWISE NOTED), 2014 CALIFORNIA MUTCD, AND THE PROJECT SPECIFICATIONS.
2. THE OFFICE OF PUBLIC WORKS INSPECTION (925-931-5681) SHALL BE NOTIFIED 24 HOURS PRIOR TO THE START OF ANY WORK BY THE CONTRACTOR OR SUBCONTRACTORS.
3. ALL QUANTITIES AND PAY ITEMS ARE AND WILL BE BASED ON HORIZONTAL MEASUREMENTS.
4. CONTRACTOR SHALL PROVIDE TRAFFIC AND PEDESTRIAN CONTROL INCLUDING FLAGPERSONS PER SPECIFICATIONS AND SHALL SUBMIT A TRAFFIC CONTROL PLAN SUBJECT TO THE APPROVAL OF THE CITY ENGINEER PRIOR TO THE START OF WORK.
5. SAFETY MEASURES: AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY, (THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT JUST DURING NORMAL WORKING HOURS) AND FOR ALL NECESSARY INDEPENDENT ENGINEERING REVIEWS OF THESE CONDITIONS. THE ENGINEER'S JOB SITE REVIEW IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION TO FIELD LOCATE UTILITIES. CONTACT UNDERGROUND SERVICE ALERT AT 800-227-2600. ANY ADDED COST ON THE PART OF THE CONTRACTOR AS A RESULT OF THE ACTUAL LOCATION OF EXISTING UTILITIES BEING DIFFERENT FROM THOSE SHOWN ON THE PLANS SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT UNIT PRICE.
7. EXISTING IMPROVEMENTS, INCLUDING SUBSTRUCTURES AND UTILITIES, THAT ARE DAMAGED BY THE CONTRACTOR, WHICH ARE NOT DESIGNATED BY THE PLANS OR SPECIFICATIONS TO BE DISTURBED, SHALL BE RESTORED OR REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY ENGINEER.
9. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION.
10. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATION AS MAY BE NECESSARY.
11. EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE AND IN PLACE BY THE CONTRACTOR DURING CONSTRUCTION UNLESS OTHERWISE NOTED.

STANDARD NOTES	
CB	INSTALL CONDUIT INTO EXISTING PULL BOX
DH	NEW DETECTOR HANDHOLE
SC	SPLICE NEW TO EXISTING CONDUCTORS



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.  
SEE SHEET E-2 FOR AND TRAFFIC SIGNAL SCHEDULES.  
SEE SHEET E-3 FOR SALVAGE AND REMOVAL PLAN.

<b>DRAWN</b> J. CHANG	<b>DESIGNED</b> T. CHANG	<b>SCALE</b> 1" = 20'
<b>CHECKED</b> J. ELIA	<b>DATE</b> 1/17/2024	
<b>APPROVED</b>		
<b>ENGINEER</b>	<b>DATE</b>	



**PREPARED BY:**  
  
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 100 Century Center Court, Suite 501  
 San Jose, California 95112  
 Ph: (408) 971-6100  
 www.hextrans.com

REVISIONS					
NO.	DATE	BY	DESCRIPTION	APPR.	DATE



**CITY OF PLEASANTON**  
**TRAFFIC SIGNAL INSTALLATION**  
**VALLEY AVENUE AND NORTHWAY ROAD (EAST)**

<b>DRAWING NO.</b> <b>E-1</b>
<b>SHEET 16 OF 20</b>



## CONDUCTOR SCHEDULE

AWG OR CABLE	CIRCUIT	NUMBER OF CONDUCTORS/CABLES															
		RUN NUMBER															
		1	2	3	4a	4b	5a	5b	6	7	8	9	10	11	12	13	
NO. 14	Ø1				3	3	3	3	3	3		3	3	3	3		
	Ø2					3		3	3	3							
	Ø6					3						3	3	3	3		
	Ø8				3	3	3	3	3			3	3	3	3		
	Ø2P					2		2	2	2							
	Ø8P				2	2	2	2	2			2	2				
	Ø2APS					2		2	2	1							
	Ø8APS				1	1	1	1	1			1	1				
	APS COMMON				1	3	1	3	2	1		1	1				
SPARES				3	3	3	3	3	3		3	3	3	3			
TOTAL NO. 14					16	22	16	22	20	13		16	16	12	12		
NO. 12	II SNS (120V)			4			2	2				2	2	2	2		
NO. 10	SIGNAL NEUTRAL				1	1	1	1	1	1		1	1	1	1		
NO. 8	SAFETY LIGHTING (240V)			4			2	2				2	2	2	2		
	EQUIPMENT GROUND (BARE CU)		1	1	1	1	1	1	1	1		1	1	1	1		
	TOTAL NO. 8		1	5	1	1	3	3	1	1		3	3	3	3		
NO. 6	CONTROLLER SERVICE (120V)		2														
NO. 2	SERVICE (120V/240V)	3															
VIDEO DETECTION CAMERA	Ø1+Ø6				1		1					1	1	1	1		
	Ø2					1		1									
	Ø8					1		1				1	1				
	TOTAL CABLES				2	1	2	1				2	2	1	1		
DLC	Ø1				1		1					1					
	Ø2					2		2	2	2							
	Ø6					2		2				2					
	Ø8					1		1	1								
	Ø2 ADV.					1		1	1	1	1						
	Ø6 ADV.				1		1						1			1	
TOTAL DLC					4	4	4	4	4	3	1	4				1	
EVP	EVA					1		1									
	EVC					1		1				1	1	1	1		
	EVD					1		1				1	1	1			
	TOTAL EVP					2	1	2	1			2	2	2	1		
CONDUIT SIZE		3"	2"	2"	3"	3"	3"	3"	3"	3"	2"	3"	3"	3"	3"	2"	
NEW (N) OR EXISTING (E)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
FOOTNOTE REFERENCE		(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	

CONDUCTOR SCHEDULE FOOTNOTES  
 (A) FURNISH AND INSTALL NEW CONDUIT AND CONDUCTORS.

## POLE AND EQUIPMENT SCHEDULE

LOCATION	STANDARD			VEHICLE SIGNAL MOUNTING		PED SIGNAL MOUNTING	PPB		LED LUMINAIRE (WATTS)	SPECIAL REQUIREMENTS*
	TYPE	SIGNAL MAST ARM	LUMINAIRE MAST ARM	MAST ARM	POLE		Ø	ARROW		
(A)	19-4-100	25'	15'	MAS	SV-1-T	SP-1-T	8	←	120	FURNISH AND INSTALL POLE AND EQUIPMENT. FURNISH AND INSTALL R3-18, ECONOLITE VISION VIDEO DETECTION CAMERA ON RISER, AND EVP DETECTOR ON SIGNAL MAST ARM. [1] [3]
(B)	15TS		15'		SV-1-T	SP-1-T	2	→	120	FURNISH AND INSTALL POLE AND EQUIPMENT. [3]
(C)	15TS		15'		SV-2-TA	SP-1-T	2	→	120	FURNISH AND INSTALL POLE AND EQUIPMENT. [3]
(D)	26-4-100	40'	15'	MAS MAS	SV-2-TD				120	FURNISH AND INSTALL POLE AND EQUIPMENT. FURNISH AND INSTALL R73-2 (CA), ECONOLITE VISION VIDEO DETECTION CAMERA ON RISER, AND EVP DETECTOR ON SIGNAL MAST ARM. [2] [4] [1]
(E)	1-B (14')				TV-1-T					FURNISH AND INSTALL POLE AND EQUIPMENT. FURNISH AND INSTALL EVP DETECTOR ON SIGNAL HEAD. [3]
(F)	15TS		15'		SV-2-TD	SP-1-T	8	←	120	FURNISH AND INSTALL POLE AND EQUIPMENT. FURNISH AND INSTALL ECONOLITE VISION VIDEO DETECTION CAMERA ON POLE SHAFT. INSTALL POLE MOUNTED SNS. [2] [4] [3] [5]

\*OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGENDS, SPECIAL PROVISIONS, AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARDS, VEHICLE AND PEDESTRIAN MOUNTINGS FOR NEW EQUIPMENT, SEE CALTRANS STANDARD PLANS, 2022

**POLE AND EQUIPMENT SCHEDULE FOOTNOTES**

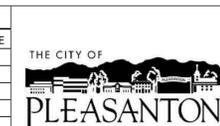
- [1] FURNISH AND INSTALL MAST ARM MOUNTED DOUBLE SIDED LED EDGE-LIT STREET NAME SIGN. SIGN LEGEND SHALL READ "Northway Rd" (BOTH SIDES) WITH FHWA SERIES E 8" UPPERCASE AND 6" LOWERCASE LETTERS.
- [2] LED LUMINAIRE MODEL SHALL BE GE EVOLVE ERL2 SERIES. PART NUMBER TO BE APPROVED BY CITY OF PLEASANTON TRAFFIC ENGINEERING.
- [3] FURNISH AND INSTALL POLARA 2-WIRE APS WITH CUSTOM MESSAGE OPTIONS. WALK INDICATION SPEECH MESSAGE SHALL BE PROGRAMMED IN THE FIELD TO BE PERCUSSIVE TONE AT LOCATIONS WHERE APS UNITS ARE SEPARATED BY AT LEAST 10 FEET.
- [4] INSTALL LUMINAIRE HOUSE-SIDE SHIELD AT THIS LOCATION.
- [5] FURNISH AND INSTALL POLE-MOUNTED SINGLE-SIDED LED EDGE-LIT STREET NAME SIGN. SIGN LEGEND SHALL READ "Valley Ave" WITH FHWA SERIES E 8" UPPERCASE AND 6" LOWERCASE LETTERS.
- [6] CUSTOM VOICE ON LOCATION MESSAGE SHALL BE PROGRAMMED AT THE FACTORY. SPEECH WALK MESSAGE SHALL NOT BE USED.

DRAWN J. CHANG	DESIGNED T. CHANG	SCALE NO SCALE
CHECKED J. ELIA	DATE 1/17/2024	
APPROVED		
ENGINEER	DATE	CONTRACT NO.



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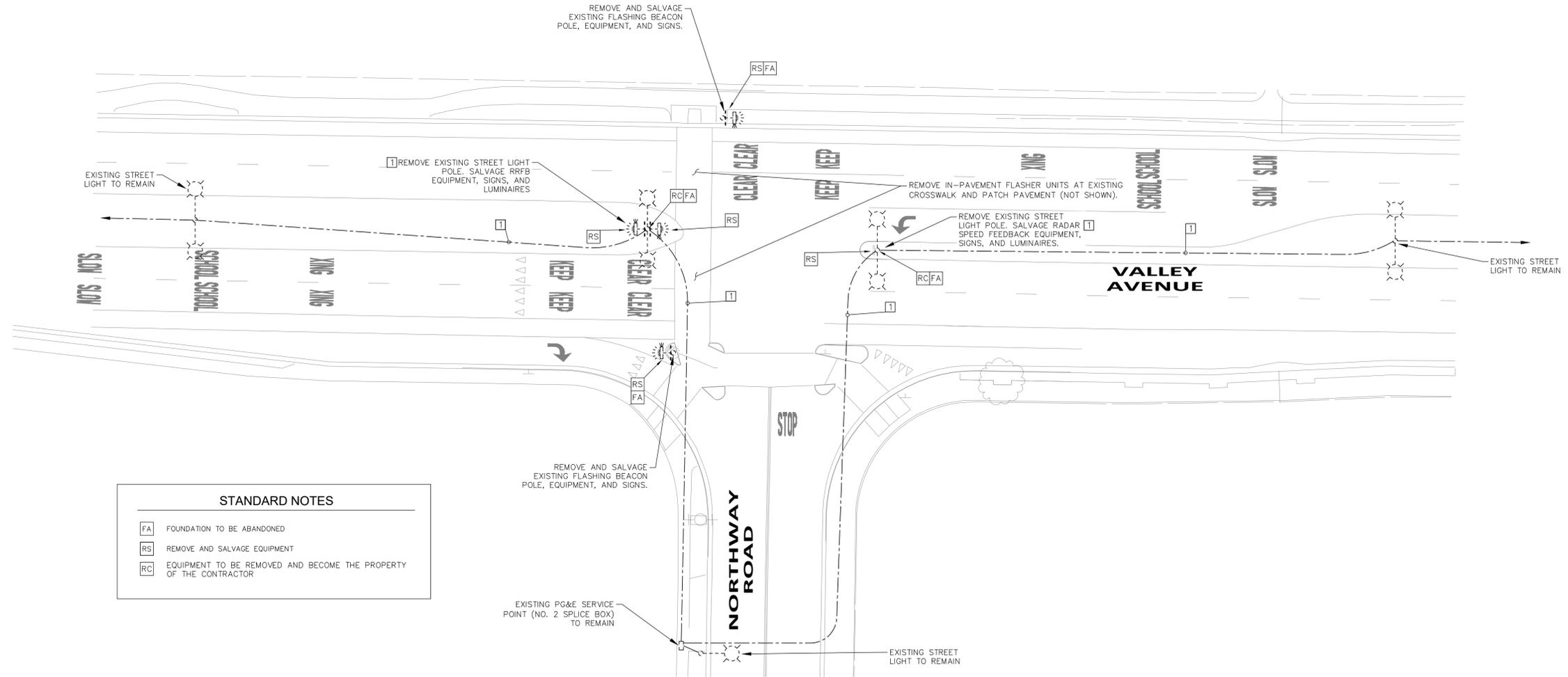
**CITY OF PLEASANTON**

TRAFFIC SIGNAL SCHEDULES  
 VALLEY AVENUE AND NORTHWAY ROAD (EAST)

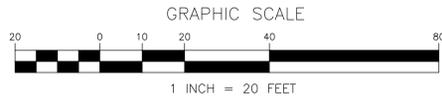
DRAWING NO.
E-2
SHEET 17 OF 20

PROJECT NOTES (THIS SHEET ONLY):

- 1 MODIFY EXISTING STREET LIGHT CONDUIT AND CONDUCTORS AS NECESSARY TO MAINTAIN EXISTING STREET LIGHT CIRCUIT CONTINUITY AFTER REMOVAL OF STREET LIGHTS.



STANDARD NOTES	
FA	FOUNDATION TO BE ABANDONED
RS	REMOVE AND SALVAGE EQUIPMENT
RC	EQUIPMENT TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR



• THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.  
 • SEE SHEET E-1 FOR GENERAL ELECTRICAL NOTES AND TRAFFIC SIGNAL INSTALLATION PLAN.

DRAWN J. CHANG	DESIGNED T. CHANG	SCALE 1" = 20'
CHECKED J. ELIA	DATE 1/17/2024	
APPROVED		CONTRACT NO.
ENGINEER	DATE	



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**CITY OF PLEASANTON**

ELECTRICAL REMOVAL AND SALVAGE PLAN  
 VALLEY AVENUE AND NORTHWAY ROAD (EAST)

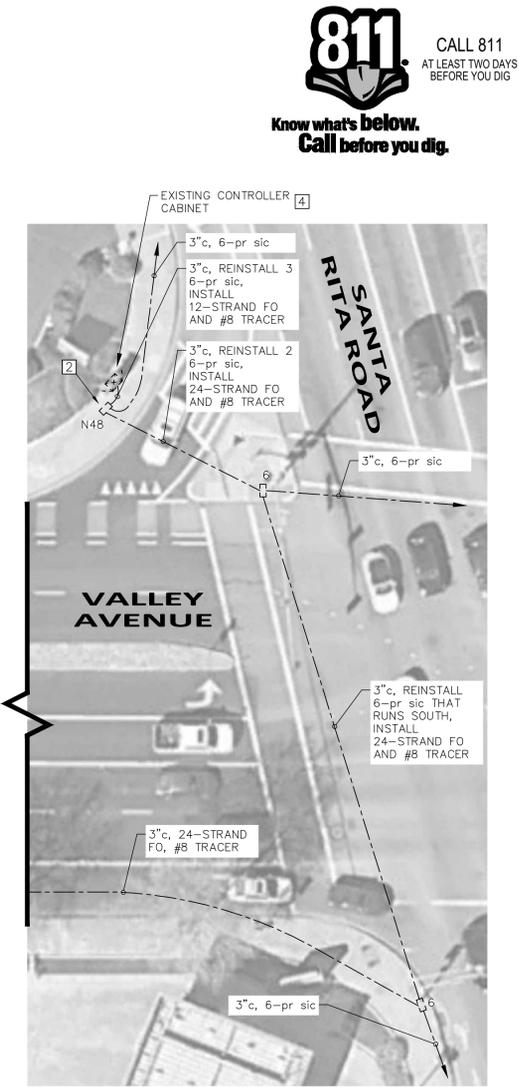
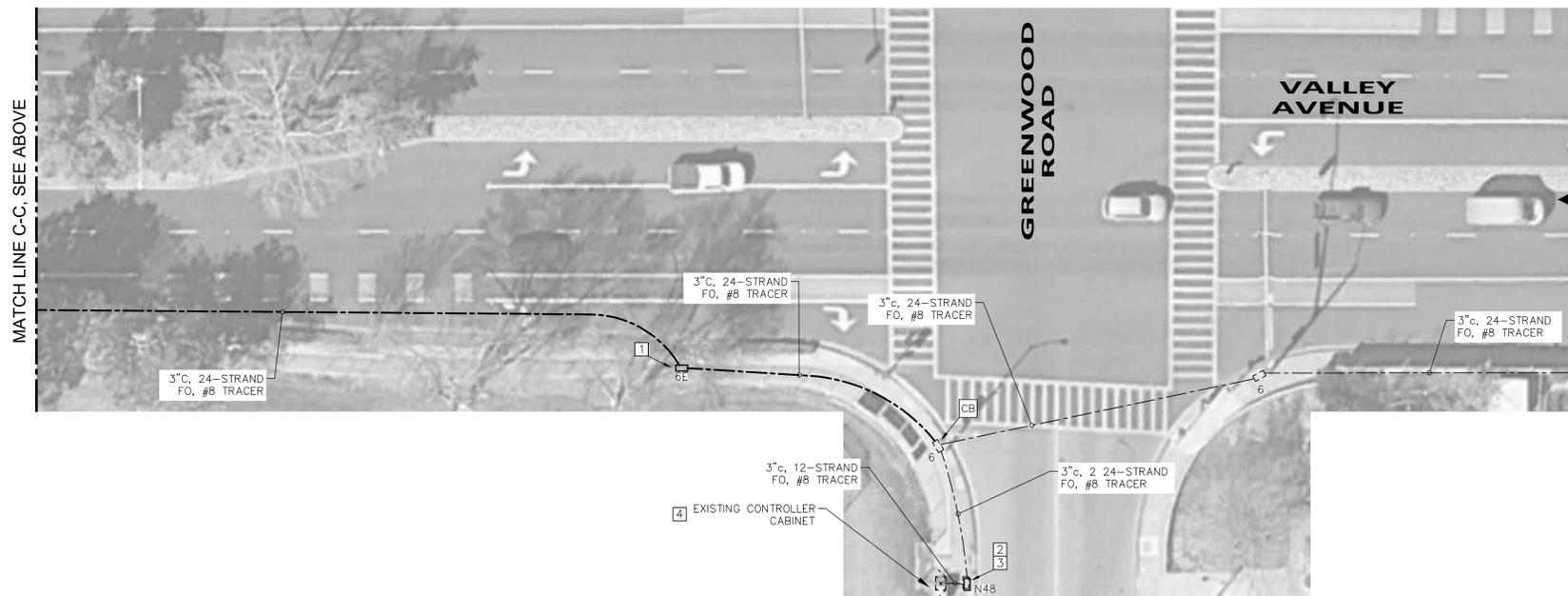
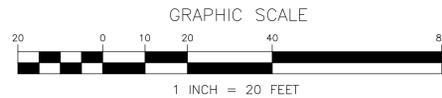
DRAWING NO.	<b>E-3</b>
SHEET	18 OF 20

PROJECT NOTES (THIS SHEET ONLY):

- 1 NEW SIGNAL INTERCONNECT PULL BOXES SHALL HAVE A MAXIMUM SPACING OF 200'.
- 2 INSTALL FIBER OPTIC SPLICE ENCLOSURE.
- 3 REPLACE EXISTING NO. 6 BOX WITH N48 SPLICE VAULT.
- 4 FURNISH AND INSTALL RUGGEDCOM FIBER SWITCH RS900 (2 LOCATIONS).

STANDARD NOTES

- CB INSTALL CONDUIT INTO EXISTING PULL BOX



DRAWN J. CHANG	DESIGNED T. CHANG	SCALE 1" = 20'
CHECKED J. ELIA	DATE 1/17/2024	
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ENGINEER	DATE	CONTRACT NO.



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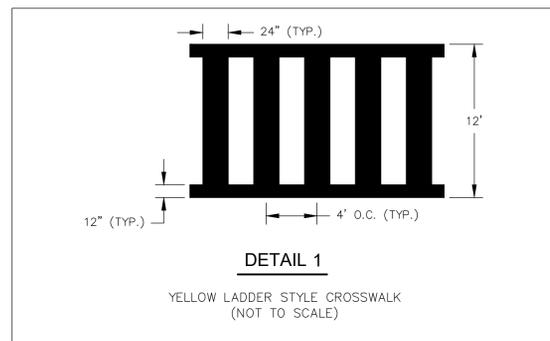
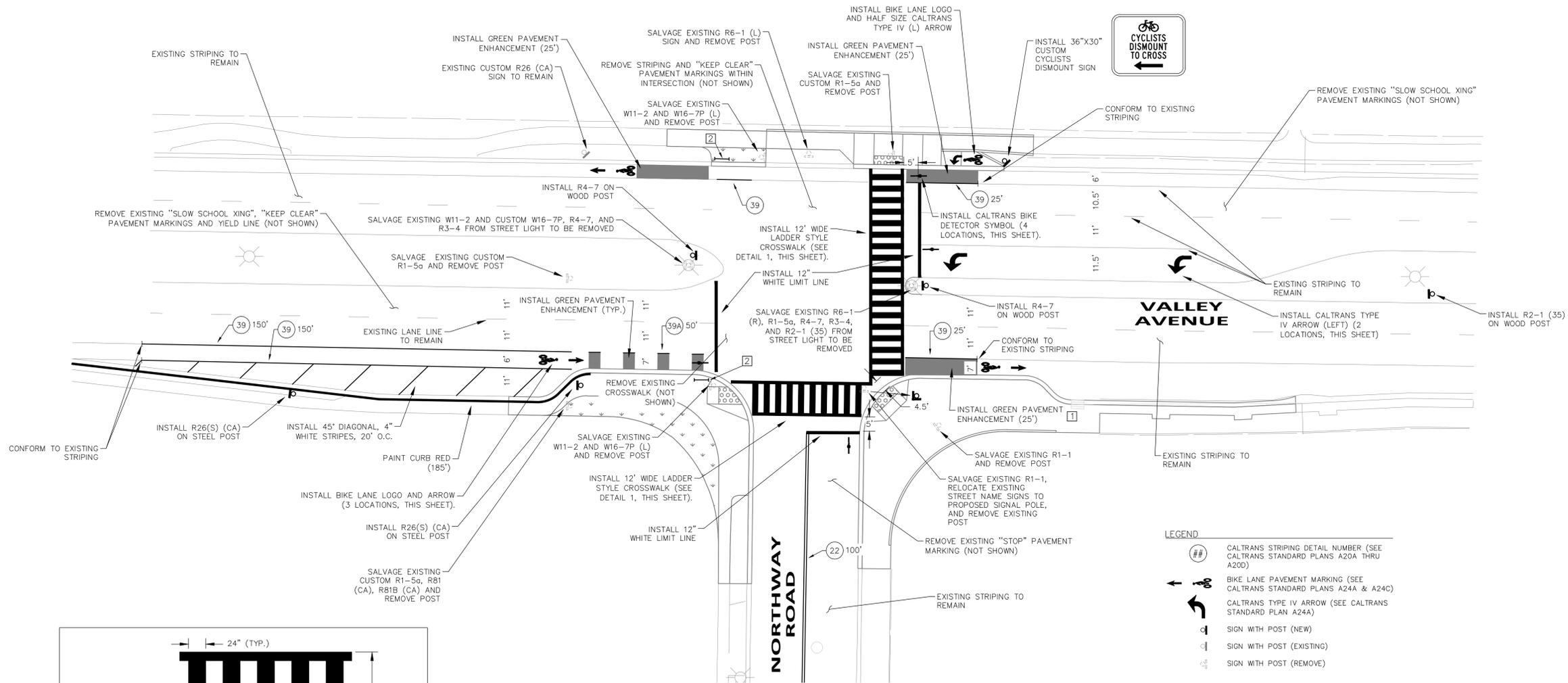


**CITY OF PLEASANTON**  
 SIGNAL INTERCONNECT PLAN  
 VALLEY AVENUE AND NORTHWAY ROAD (EAST)

DRAWING NO. <b>E-4</b>
SHEET 19 OF 20

PROJECT NOTES (THIS SHEET ONLY):

- 1 EXISTING GREEN PAVEMENT ENHANCEMENT IN THIS AREA TO REMAIN WHERE POSSIBLE. INSTALL NEW GPE AS NECESSARY.
- 2 INSTALL PEDESTRAIN BARRICADE WITH R9-3 SIGN.

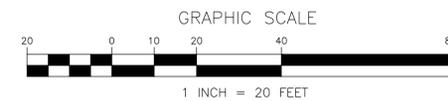


GENERAL SIGNING AND STRIPING NOTES:

1. ALL EXISTING SIGNING AND STRIPING THAT ARE IN CONFLICT WITH THIS PLAN SHALL BE REMOVED.
2. ALL STRIPING SHALL BE CAT-TRACKED AND REVIEWED BY THE CITY TRAFFIC ENGINEER PRIOR TO FINAL INSTALLATION. FINAL INSTALLATION OF STRIPING WILL BE ALLOWED ONLY AFTER APPROVAL OF STRIPING LAYOUT BY THE CITY TRAFFIC ENGINEER.
3. TRAFFIC SIGNS AND STRIPING SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS AND SHALL CONFORM TO THE CITY STANDARD SPECIFICATIONS AND DETAILS, AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
4. ALL PAVEMENT MARKINGS AND STRIPING SHALL BE THERMOPLASTIC.
5. EXISTING STRIPING, PAVEMENT MARKINGS, AND SIGNING NOT AFFECTED BY THE PROPOSED IMPROVEMENTS ARE NOT FULLY DOCUMENTED ON THIS PLAN.
6. LANE DIMENSIONS FOR LANES ADJACENT TO CURBS ARE MEASURED FROM FACE OF CURB TO CENTER OF STRIPE DETAIL.
7. EXISTING GREEN PAVEMENT ENHANCEMENT IN CONFLICT WITH THIS PLAN SHALL BE REMOVED BY GRINDING FOLLOWED BY SLURRY SEAL.

LEGEND

- ## CALTRANS STRIPING DETAIL NUMBER (SEE CALTRANS STANDARD PLANS A20A THRU A20D)
- ← BIKE LANE PAVEMENT MARKING (SEE CALTRANS STANDARD PLANS A24A & A24C)
- ↩ CALTRANS TYPE IV ARROW (SEE CALTRANS STANDARD PLAN A24A)
- ⊠ SIGN WITH POST (NEW)
- ⊡ SIGN WITH POST (EXISTING)
- ⊣ SIGN WITH POST (REMOVE)
- ⊢ BIKE LOOP DETECTOR SYMBOL (SEE CALTRANS STANDARD PLAN A24C)
- ▬ PEDESTRIAN BARRICADE



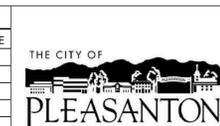
\* THIS PLAN IS ACCURATE FOR SIGNING AND STRIPING ONLY.

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**CITY OF PLEASANTON**

SIGNING AND STRIPING  
 VALLEY AVENUE AND NORTHWAY ROAD EAST

DRAWING NO. <b>SS-1</b>
SHEET 20 OF 20