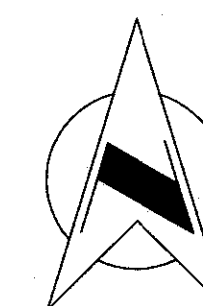


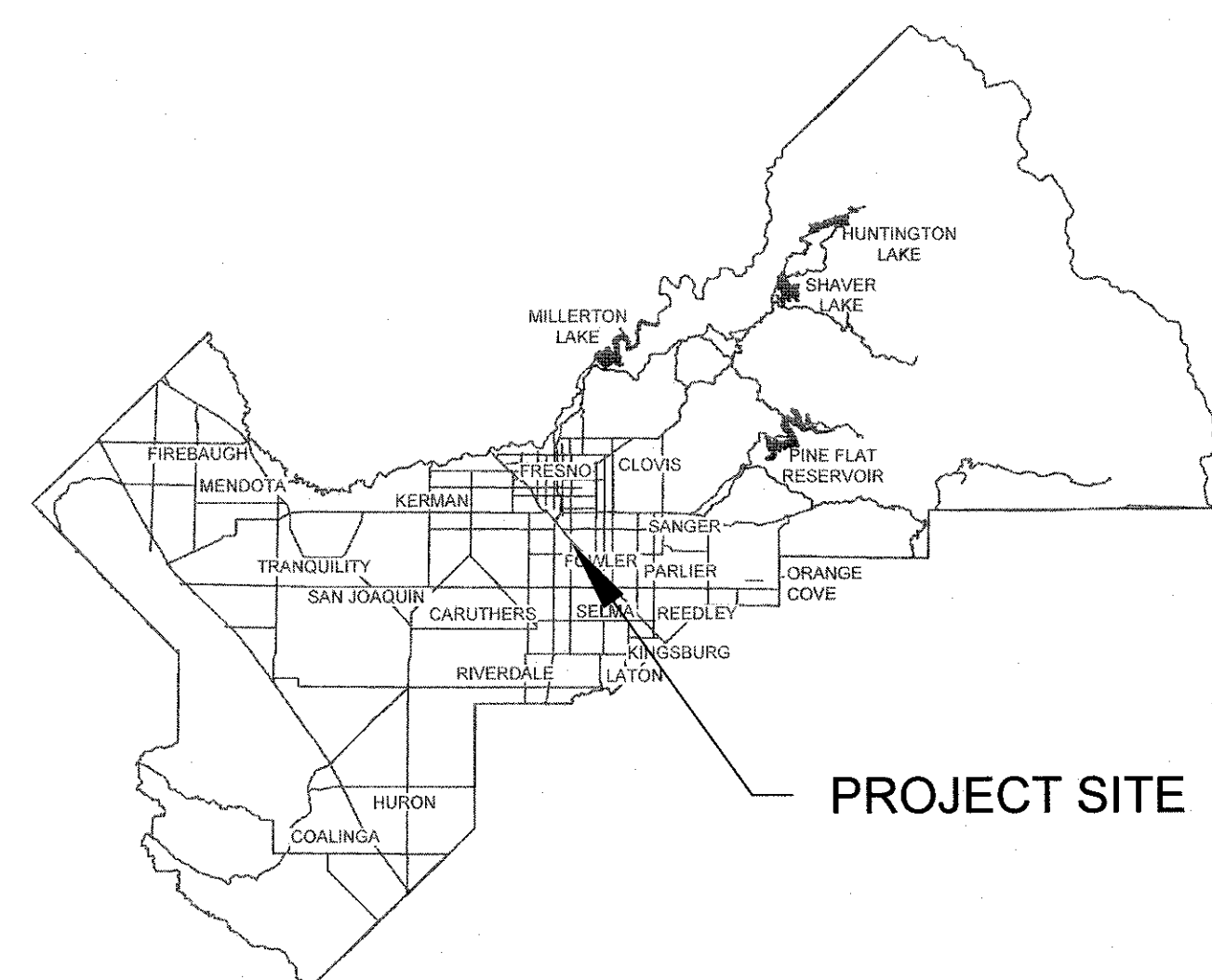
# PLANS FOR CONSTRUCTION

## JUVENILE JUSTICE CAMPUS GROUNDWATER MONITORING WELL REPLACEMENTS



### SHEET LIST

- 1 COVER PAGE
- 2 LEGEND & NOTES
- 3 SITE PLAN
- 4 DETAILS
- 5 DETAILS II



PROJECT SITE

VICINITY MAP  
SCALE: NTS



PROJECT SITE

KEY MAP  
SCALE: NTS

BRIAN PACHECO  
SAL QUINTERO  
NATHAN MAGSIG  
ERNEST BUDDY MENDES  
STEVE BRANDAU

CHAIRMAN  
VICE CHAIRMAN

1ST DISTRICT  
3RD DISTRICT  
5TH DISTRICT  
4TH DISTRICT  
2ND DISTRICT

Paul Nerland  
County Administrative Officer

APPROVED

STEVEN E. WHITE, DIRECTOR  
DEPARTMENT OF PUBLIC WORKS AND PLANNING

| CALIFORNIA CONTRACTOR'S LICENSES REQUIRED FOR THIS PROJECT |          |            |            |           |       |
|--|----------|------------|------------|-----------|-------|
| CLASS C-57 (WELL DRILLING)                                 |          |            |            |           |       |
| DRAWING NO.  | ROAD NO. | BRIDGE NO. | FISCAL YR. | SHEET NO. | TOTAL |
| 11321  | N/A      | N/A        | 23-24      | 1         | 5     |
| CONTRACT NO. 23-06-C                                       |          |            |            |           |       |

| RECORD DRAWING    |            |
|-------------------|------------|
| DATE ADOPTED      | CONTRACTOR |
| NAME              |            |
| ADDRESS           |            |
| CITY              | STATE ZIP  |
| PHONE             |            |
| DATE AWARDED      |            |
| DATE STARTED      |            |
| DATE COMPLETED    |            |
| RESIDENT ENGINEER |            |
| NAME              | SIGNATURE  |
| NAME              | SIGNATURE  |



3649 W HOLLAND AVE, SUITE 105  
FRESNO, CALIFORNIA 93722  
PHONE: 559-486-0750  
WWW.KLEINFELDER.COM  
PROJECT NO. 20223600.002A

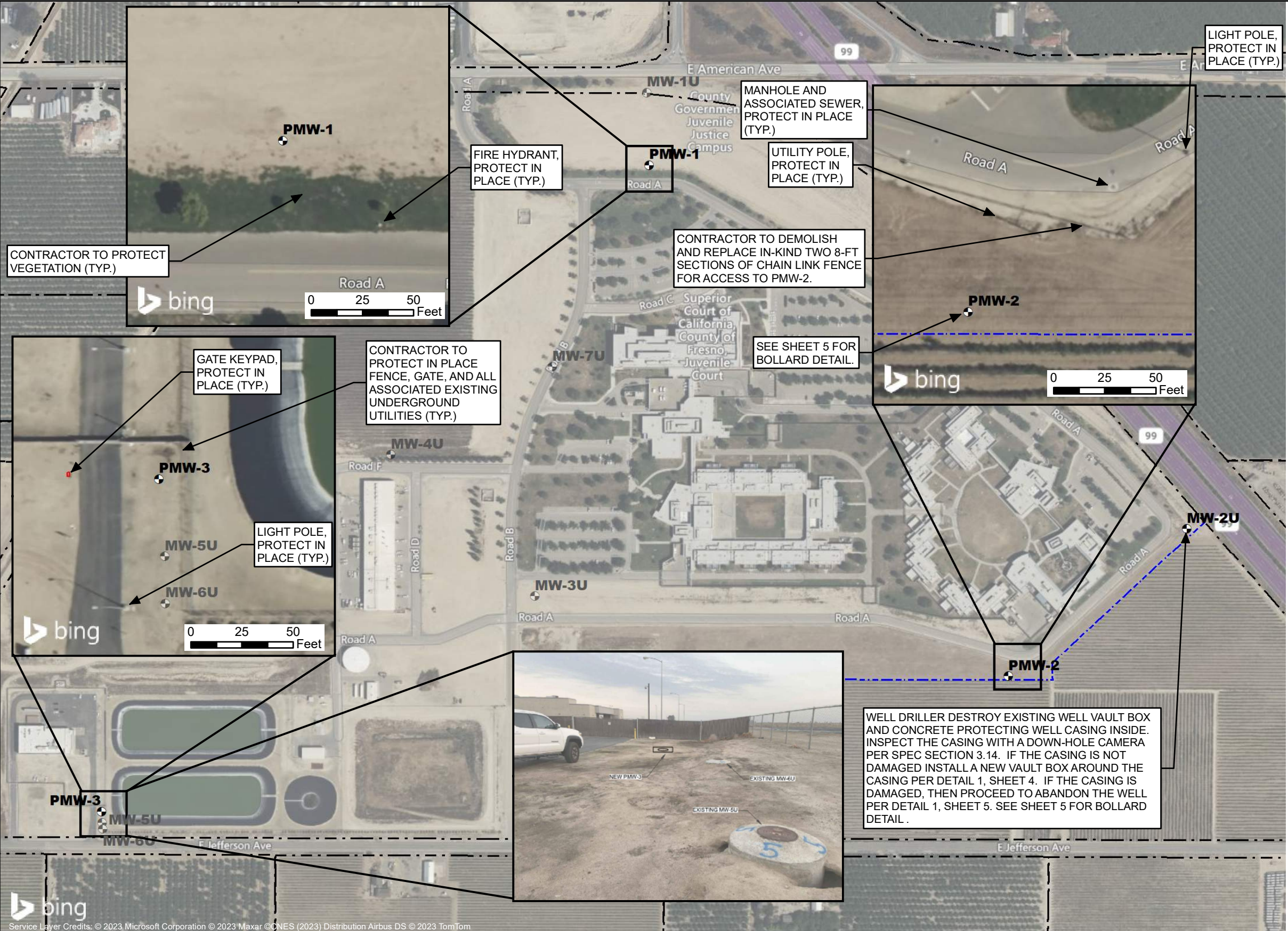


DEPARTMENT OF PUBLIC WORKS AND PLANNING



PLOTTED: 6/30/2023 10:08:50 AM BY: RAVEREZ

GIS FILE PATH: \\azrgisatop03\GIS\_Projects\Client\FresnoCountyCA\20223600\_FresnoJJC\SitePlan2.mxd



**LEGEND**

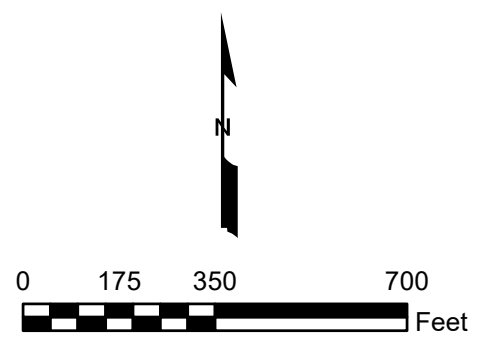
- NEW MONITORING WELL
- EXISTING MONITORING WELL
- BOUNDARY OF THE JUVENILE JUSTICE CENTER
- PARCEL BOUNDARY

**EXISTING MONITORING WELLS**

|       | NORTHING   | EASTING   |
|-------|------------|-----------|
| MW-1U | 4060988.53 | 256253.52 |
| MW-2U | 4060521.82 | 256806.97 |
| MW-3U | 4060465.33 | 256125.81 |
| MW-4U | 4060616.23 | 255978.27 |
| MW-5U | 4060238.66 | 255669.92 |
| MW-6U | 4060231.67 | 255669.81 |
| MW-7U | 4060704.56 | 256148.55 |

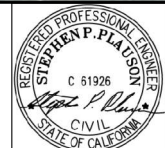
**NEW MONITORING WELLS**

|       | NORTHING   | EASTING   |
|-------|------------|-----------|
| PMW-1 | 4060912.45 | 256253.95 |
| PMW-2 | 4060371.82 | 256617.30 |
| PMW-3 | 4060250.20 | 255669.24 |



| DESIGNED: A. DANKER     | DATE       | RESIDENT ENGINEER | DATE |
|-------------------------|------------|-------------------|------|
| DRAWN: R. ALVAREZ       | 02/10/2023 |                   |      |
| CHECKED: T. SHACKELFORD | 05/31/2023 |                   |      |

| SCALE | SUPERVISING ENGINEER | DATE |
|-------|----------------------|------|
|       |                      |      |

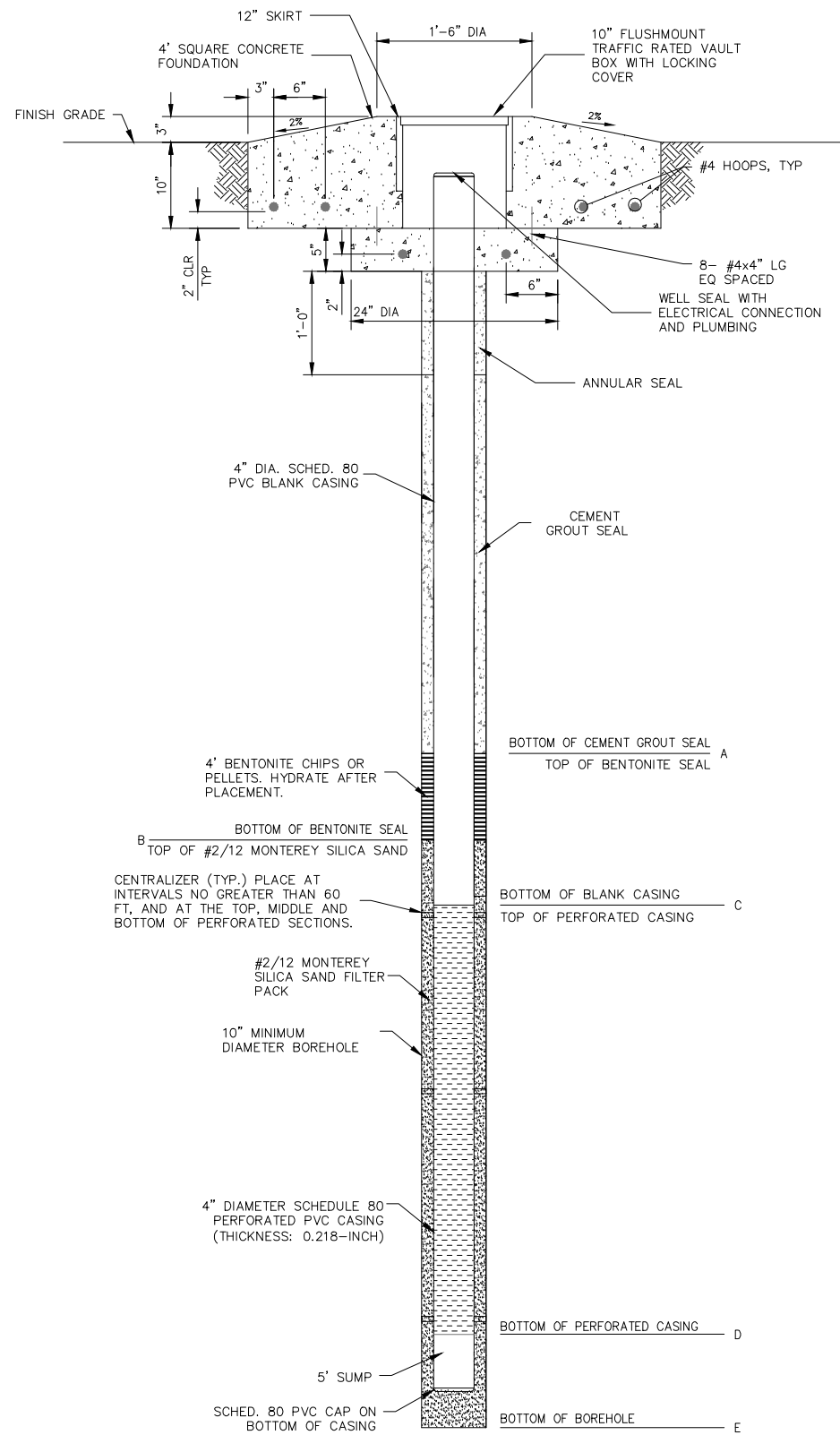


| PROJECT                 |                |
|-------------------------|----------------|
| JUVENILE JUSTICE CAMPUS |                |
| GWM WELL REPLACEMENTS   |                |
| ROAD NO. N/A            | BRIDGE NO. N/A |

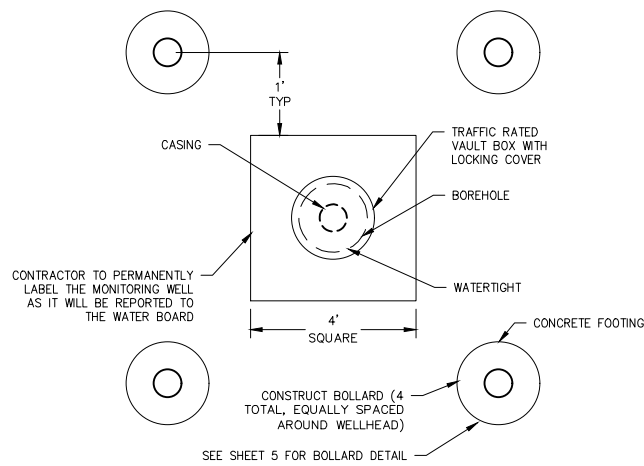


| DEPARTMENT OF PUBLIC WORKS AND PLANNING |             |         |
|---|-------------|---------|
| SITE PLAN                               |             |         |
| DRAWING NO. 11321                       | SHEET NO. 3 | TOTAL 5 |

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



**1 MONITORING WELL DETAIL**  
SCALE: NTS

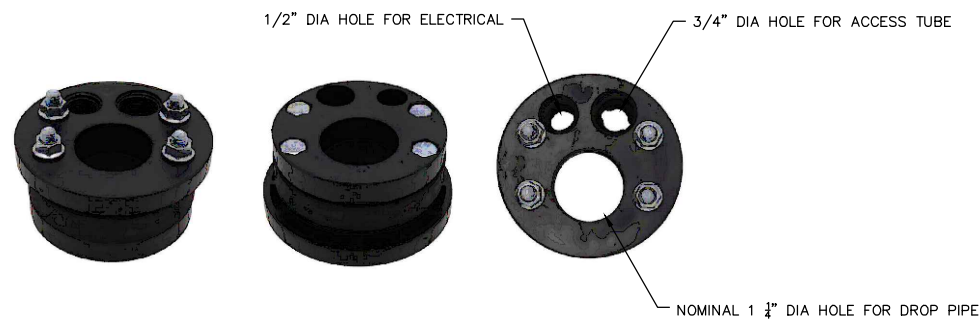


**2 MONITORING WELL PLAN VIEW**  
SCALE: NTS

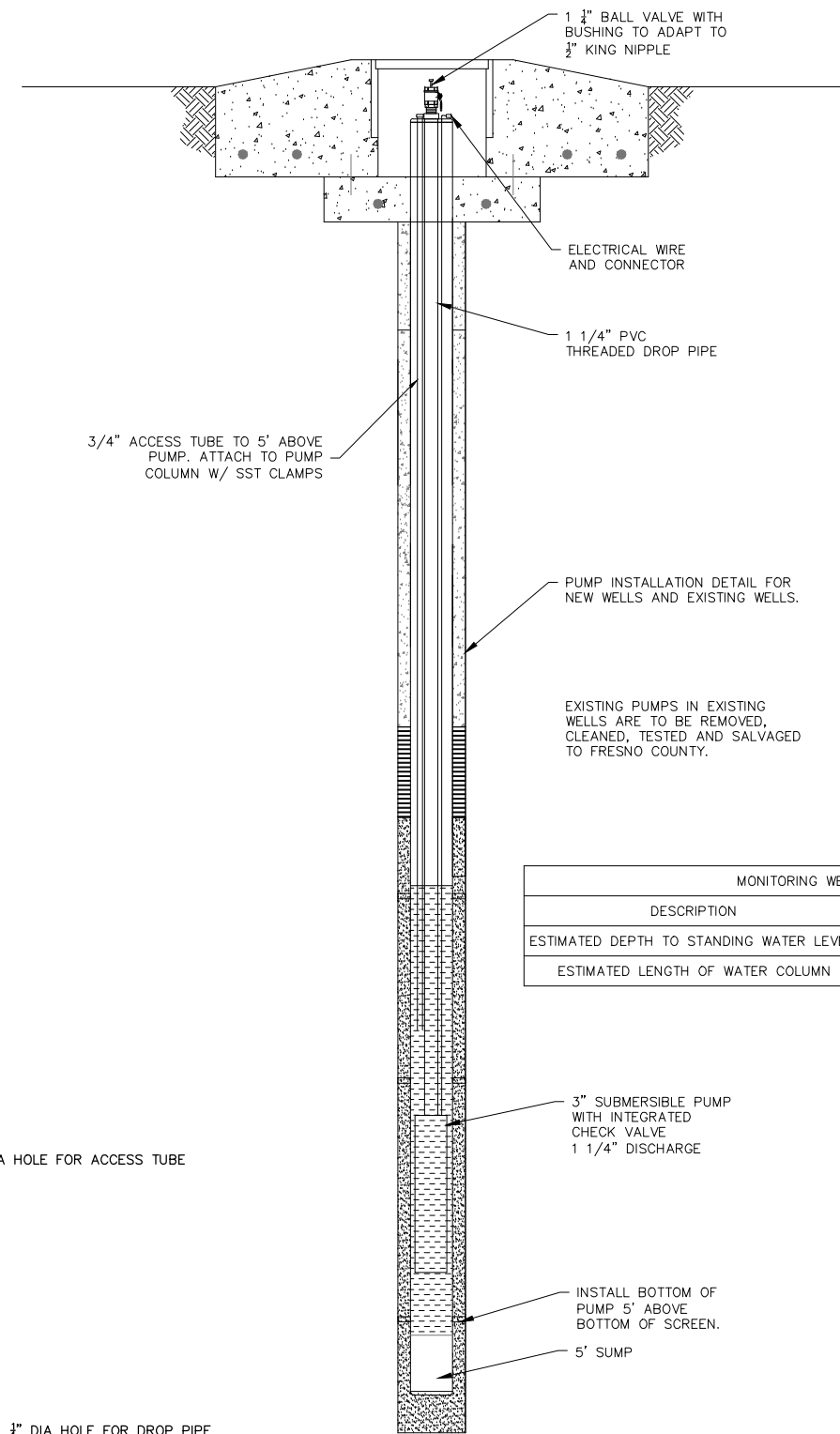
| ITEM | DESCRIPTION                          | TYPICAL |
|------|--------------------------------------|---------|
| A    | DEPTH TO BOTTOM OF CEMENT GROUT SEAL | 69      |
| B    | DEPTH TO BOTTOM OF BENTONITE SEAL    | 73      |
| C    | DEPTH TO TOP OF PERFORATED CASING    | 75      |
| D    | DEPTH TO BOTTOM OF PERFORATED CASING | 120-130 |
| E    | TOTAL DEPTH OF BOREHOLE              | 135     |

NOTES:  
 DEPTHS IN THE TABLE MAY CHANGE BASED ON THE STRATIGRAPHY OR DEPTH TO GROUND WATER ENCOUNTERED DURING DRILLING.

**3 NEW MONITORING WELL DIMENSIONS**  
SCALE: NTS



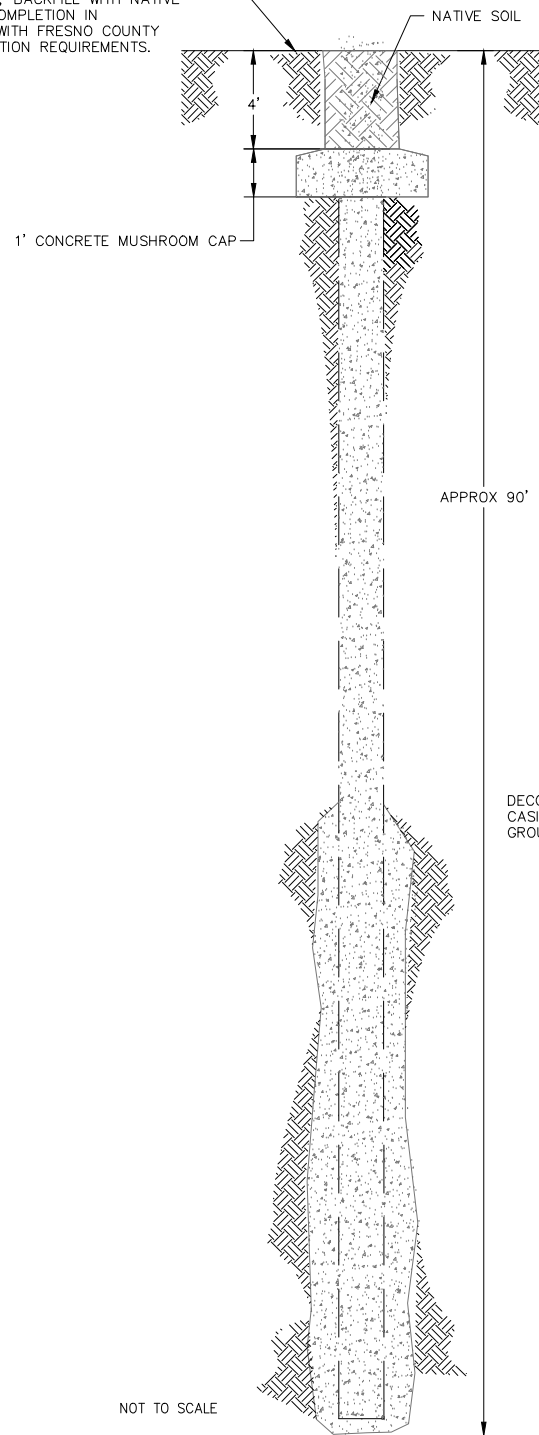
**5 WELL SEAL**  
SCALE: NTS



**4 WELL MECHANICAL DETAIL**  
SCALE: NTS

| MONITORING WELL DATA                    |                 |      |
|---|-----------------|------|
| DESCRIPTION                             | AMOUNT/DISTANCE | UNIT |
| ESTIMATED DEPTH TO STANDING WATER LEVEL | 90              | FT   |
| ESTIMATED LENGTH OF WATER COLUMN        | 25              | FT   |

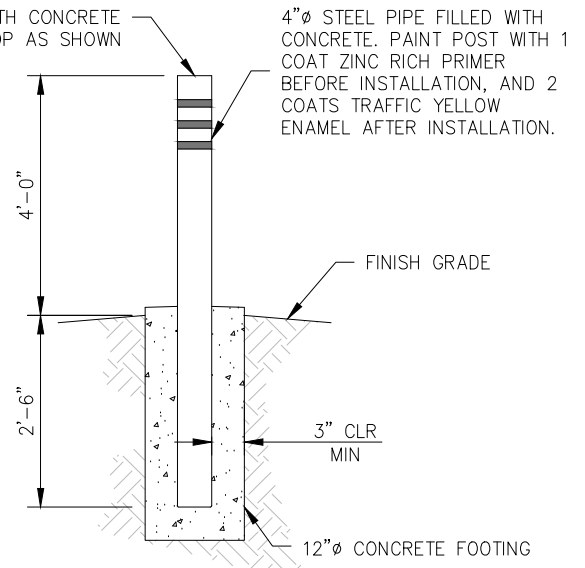
EXCAVATE UPPER 5 FEET OF WELL CASING AND REMOVE 5 FEET OF CASING AFTER FILLING CASING WITH NEAT CEMENT GROUT. A 1-FOOT THICK MUSHROOM CAP SHOULD BE PLACED ABOVE CASING; BACKFILL WITH NATIVE SOILS UPON COMPLETION IN ACCORDANCE WITH FRESNO COUNTY WELL DESTRUCTION REQUIREMENTS.



1 WELL DECOMMISSIONING DETAIL (WELL MW-2U)  
SCALE: NTS

DECOMMISSION BY FILLING THE CASING WITH NEAT CEMENT GROUT TO 5 FEET BGS.

FILL PIPE WITH CONCRETE AND FLAT TOP AS SHOWN



2 BOLLARD DETAIL  
SCALE: NTS

|  |  |                  |                   |  |                      |  |                         |  |   |  |
|--|--|------------------|-------------------|--|----------------------|--|-------------------------|--|---|--|
| DESIGNED: A. DANKER  |  | DATE: 08/05/2022 | RECORD DRAWING    |  | SCALE                |  | PROJECT                 |  | DEPARTMENT OF PUBLIC WORKS AND PLANNING |  |
| DRAWN: A. DANKER   |  | DATE: 08/05/2022 | RESIDENT ENGINEER |  | NOT TO SCALE         |  | JUVENILE JUSTICE CAMPUS |  | DETAILS II                              |  |
| CHECKED: T. SHACKELFORD  |  | DATE: 08/05/2022 |                   |  |                      |  | GWM WELL REPLACEMENTS   |  |   |  |
| FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING. |  |                  |                   |  | SUPERVISING ENGINEER |  | DATE                    |  | DRAWING NO. 11321 SHEET NO. 5 TOTAL 5   |  |

