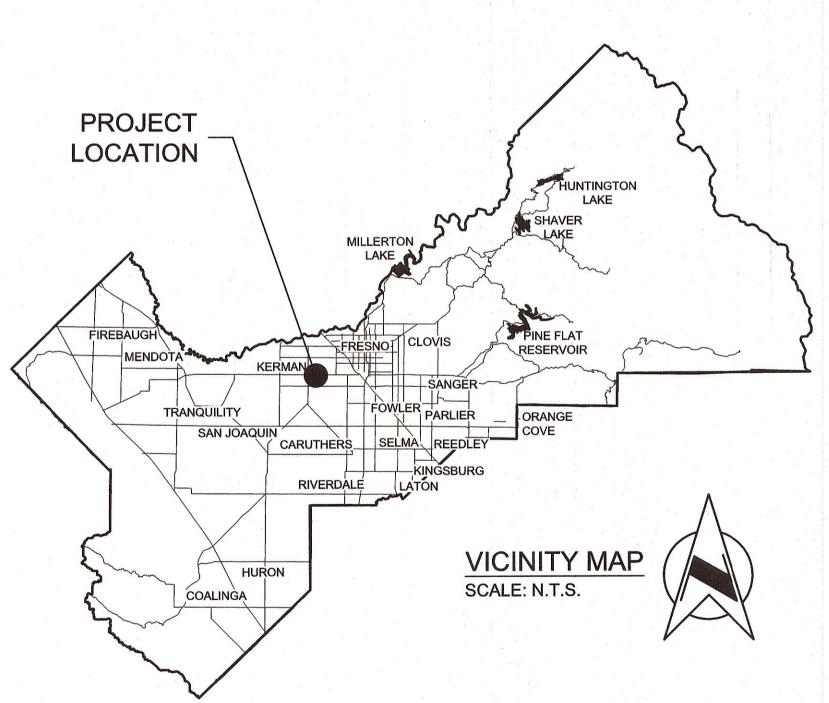
PLANS FOR CONSTRUCTION

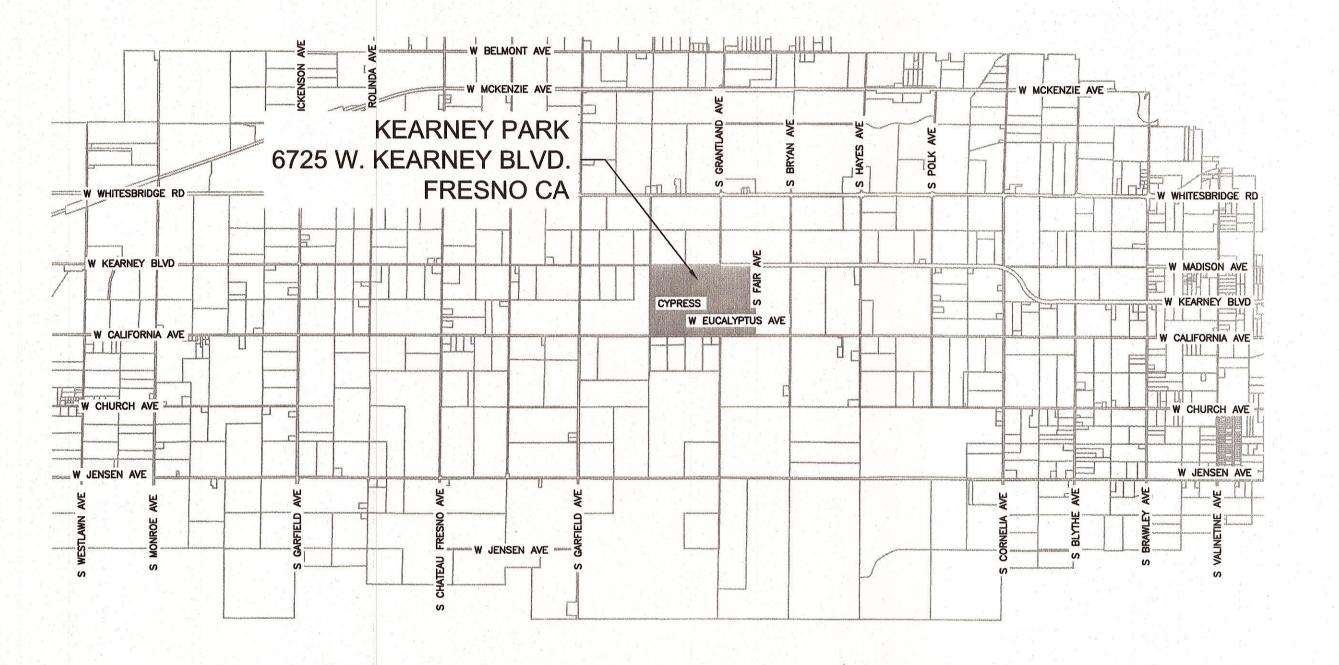
KEARNEY PARK IMPROVEMENTS

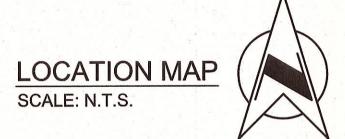
6725 W. KEARNEY BLVD. FRESNO CA. 93706



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DIVISION	DESIGN	CONST	RMO	RESC
SIGNATURE	Molan H. Slein	Manle PS. Seth	, pa	DA.
DATE	6/2/2025	6/3/2025		6/3/25







DEPARTMENT OF PUBLIC WORKS AND PLANNING

	INDEX OF SHEETS
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2	LEGEND
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7	SITE IMPROVEMENT PLAN
8	SITE UTILITY PLAN
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E2.01	ELECTRICAL SITE PLAN
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E2.03	PARTIAL ELECTRICAL SITE PLAN
E2.04	PHOTO REFERENCES
E3.01 - E3.02	TYPICAL ELECTRICAL DETAILS
E4.01	POWER TITLE 24
E4.02 - E4.04	OUTDOOR LIGHTING TITLE 24

Ernest "Buddy" Mendes	Chairman	4th	Distric
Garry Bredefeld	Vice Chairman	2nd	Distric
Brian Pacheco		1st	Distric
Luis Chavez		3rd	Distric
Nathan Magsig		5th	Distric

Paul Nerland
County Administrative Officer

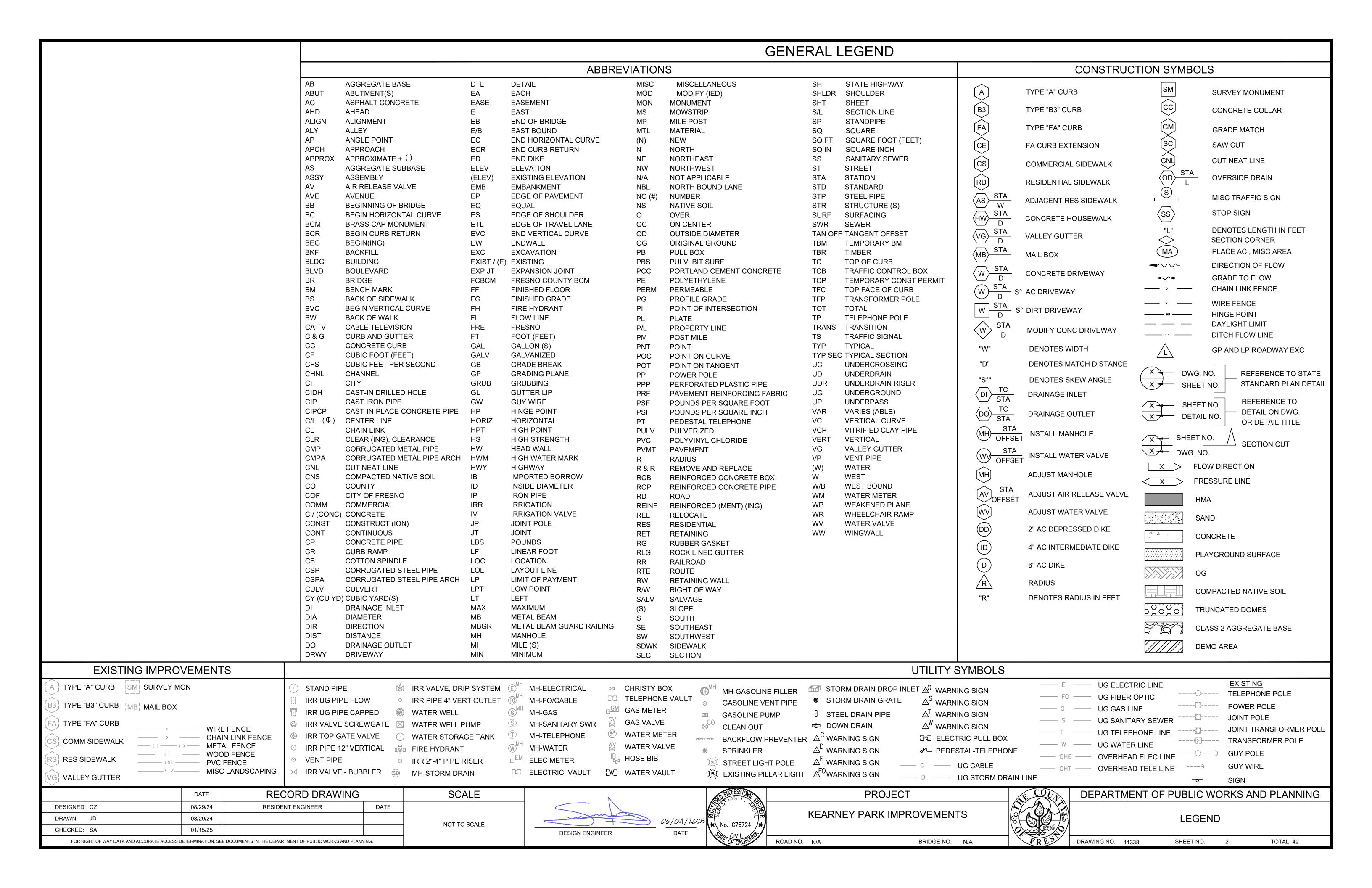
Steve White

Digitally signed by Steve White Date: 2025.06.03 14:31:09 -07'00'

Steven E. White, Director
Department of Public Works and Planning

		ASS A, GENERA		D FOR THIS	rtould
DRAWING NO.	ROAD NO.	BRIDGE NO.	FISCAL YR.	SHEET NO.	TOTAL
11338	N/A	N/A	25 / 26	1	42

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



UTILITY NOTES

- 1. LOCATIONS OF EXISTING UNDERGROUND FACILITIES ARE APPROXIMATE EXACT DEPTH AND LOCATIONS ARE UNKNOWN. FIELD LOCATE PRIOR TO THE START OF CONSTRUCTION.
 - **CALL UNDERGROUND SERVICE ALERT (USA) 811**
- 2. WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS, DEPTH AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLY CORRECT, BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUED AS A REPRESENTATION THAT SUCH STRUCTURES WILL, IN ALL CASES, BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL OF THE STRUCTURES WHICH MAY BE ENCOUNTERED.

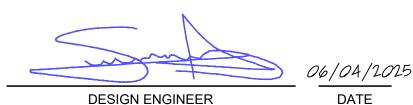
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS FROM THE COUNTY OF FRESNO DEVELOPMENT SERVICES, PAY THE NECESSARY FEES REQUIRED TO PERFORM THE WORK. THE CONTRACTOR SHALL ABIDE BY THE CONDITIONS OF ALL PERMITS AND SHALL PERFORM ALL WORK ORDERED BY SAID PERMITS IN CONFORMANCE THEREWITH AND AS DIRECTED BY THE ENGINEER.
- 2. BEFORE COMMENCING EXCAVATION. THE CONTRACTOR SHALL NOTIFY ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK OF THE CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES AND THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND SIZE OF ALL UTILITIES IN THE WORK AREA.
- TWO WORKING DAYS BEFORE PERFORMING ANY EXCAVATION THE CONTRACTOR SHALL CALL "USA" (UNDERGROUND SERVICE ALERT) TOLL FREE AT 1-800-227-2600 OR 811.
- SAW-CUT AND DEMOLITION AREAS ARE TO BE VERIFIED BY THE ENGINEER PRIOR TO DEMOLITION. ANY ADDITIONAL DEMOLITION SHALL BE APPROVED BY THE ENGINEER.
- 5. THE CONTRACTOR SHALL COORDINATE WITH ANY UTILITY COMPANIES THAT REQUIRE THEIR FACILITIES TO BE ADJUSTED TO GRADE. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING EACH SITE AND IDENTIFYING ANY UTILITIES THAT MAY REQUIRE ADJUSTMENT. ANY UNFORESEEN DELAY SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY IN WRITING.
- 6. THE CONTRACTOR SHALL PLACE CAUTION TAPE AND SET UP BARRICADES WITH APPROPRIATE SIDEWALK CLOSURE SIGNS PER CURRENT VERSION OF CA MUTCD SURROUNDING EACH SITE UNDER CONSTRUCTION. ADDITIONALLY THE CONTRACTOR SHALL PROVIDE SAFE ALTERNATE AND ADA ACCESSIBLE ROUTES FOR PEDESTRIANS WHILE SITES ARE UNDER CONSTRUCTION.
- 7. THE CONTRACTOR SHALL RECONSTRUCT EACH SITE WITHIN 7 WORKING DAYS AFTER DEMOLITION.
- 8. APPLY TACK COAT TO EXISTING AC AND CONCRETE VERTICAL SURFACES PRIOR TO PAVING.
- 9. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL
- 10. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE APPLICABLE REQUIREMENTS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 2023 EDITION EXCEPT AS MODIFIED BY THE COUNTY OF FRESNO STANDARD DRAWINGS OR THE SPECIAL PROVISIONS.
- 11. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE STARTING WORK.
- 12. ALL A.C. PAVEMENT AND CONCRETE IMPROVEMENTS TO BE JOINED SHALL BE
- 13. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF SCALED DIMENSIONS ON ANY PLAN. ALL DIMENSIONS SHALL BE AS DESIGNED ON THE PLANS. THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND PRIVATE PROPERTY.
- 14. DURING THE PERFORMANCE OF WORK DONE UNDER THE CONTRACT, THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID ANY DAMAGE TO ANY STRUCTURES ADJACENT TO THE PROJECT BOUNDARIES
- 15. A VISIT TO THE SITE IS REQUIRED. VERIFY ALL CONDITIONS PRIOR TO SUBMITTING A BID.

18. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE FULL SET OF PLANS FOR ANY

GENERAL NOTES

- DISCREPANCIES AND OMISSIONS PRIOR TO THE COMMENCEMENT OF WORK. IF ANY DISCREPANCIES BETWEEN THESE PLANS AND THE FIELD ARE IDENTIFIED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WORK NOT IN CONFORMANCE WITH THE PLANS OR IN CONFLICT WITH ANY CODE. AN APPROVED SET OF PLANS MUST BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS, FABRICATIONS, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES AND LABOR NECESSARY FOR THE CONSTRUCTION, ERECTION AND INSTALLATION OF ALL WORK INDICATED ON THESE DRAWINGS AND/OR OUTLINED IN EACH SECTION OF THE SPECIFICATIONS.
- THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL GIVE THEIR PERSONAL ATTENTION TO THE WORK; BE RESPONSIBLE FOR THE LAYOUT AND CORRECTNESS OF THEIR WORK AND COOPERATE WITH EACH OF THE VARIOUS TRADES TO OBTAIN A NEAT FINISHED AND WORKMANLIKE JOB.
- 21. DO NOT SCALE DRAWINGS. IF UNABLE TO LOCATE DIMENSIONS FOR ANY ITEM OF WORK, CONTACT THE ENGINEER FOR DIRECTION BEFORE PROCEEDING.
- 22. ALL DAMAGE TO AREAS AND/OR PROPERTY NOT SPECIFICALLY PART OF THE PROJECT SITE CAUSED DURING CONSTRUCTION ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETURN TO PRE-CONSTRUCTION CONDITIONS.
- 23. CHANGES TO THE APPROVED DRAWINGS AND/OR SPECIFICATIONS SHALL BE MADE BY ADDENDUM OR CHANGE ORDER SIGNED BY THE ENGINEER AND APPROVED BY THE PUBLIC WORKS/ENGINEERING OFFICIALS.
- 24. DUST AND DEBRIS CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT -DISTRICT REGULATION VIII - FUGITIVE DUST RULES.
- 25. TO THE FULLEST EXTENT PERMITTED BY LAWS AND REGULATIONS, CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS OWNER AND ENGINEER, AND THE OFFICERS, DIRECTORS, MEMBERS, PARTNERS, EMPLOYEES, AGENTS, CONSULTANTS AND SUBCONTRACTORS OF EACH AND ANY OF THEM FROM AND AGAINST ALL CLAIMS, COSTS, LOSSES, AND DAMAGES (INCLUDING BUT NOT LIMITED TO ALL FEES AND CHARGES OF ENGINEERS, ARCHITECTS, ATTORNEYS, AND OTHER PROFESSIONALS AND ALL COURT OR ARBITRATION OR OTHER DISPUTE RESOLUTION COSTS) ARISING OUT OF OR RELATING TO THE PERFORMANCE OF THE WORK, PROVIDED THAT ANY SUCH CLAIM, COST, LOSS, OR DAMAGE IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE, OR DEATH, OR TO INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY (OTHER THAN THE WORK ITSELF), INCLUDING THE LOSS OF USE RESULTING THEREFROM BUT ONLY TO THE EXTENT CAUSED BY ANY NEGLIGENT ACT OR OMISSION OF CONTRACTOR, ANY SUBCONTRACTOR, ANY SUPPLIER, OR ANY INDIVIDUAL OR ENTITY DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM TO PERFORM ANY OF THE WORK OR ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE.

	DATE	RECORD DRAWING		
DESIGNED: CZ	08/29/24	RESIDENT ENGINEER	DATE	
DRAWN: JD	08/29/24			
CHECKED: SA	01/15/25			
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				



SCALE

NOT TO SCALE



ROAD NO. N/A



BRIDGE NO. N/A

PROJECT



DEPARTMENT OF PUBLIC WORKS AND PLANNING

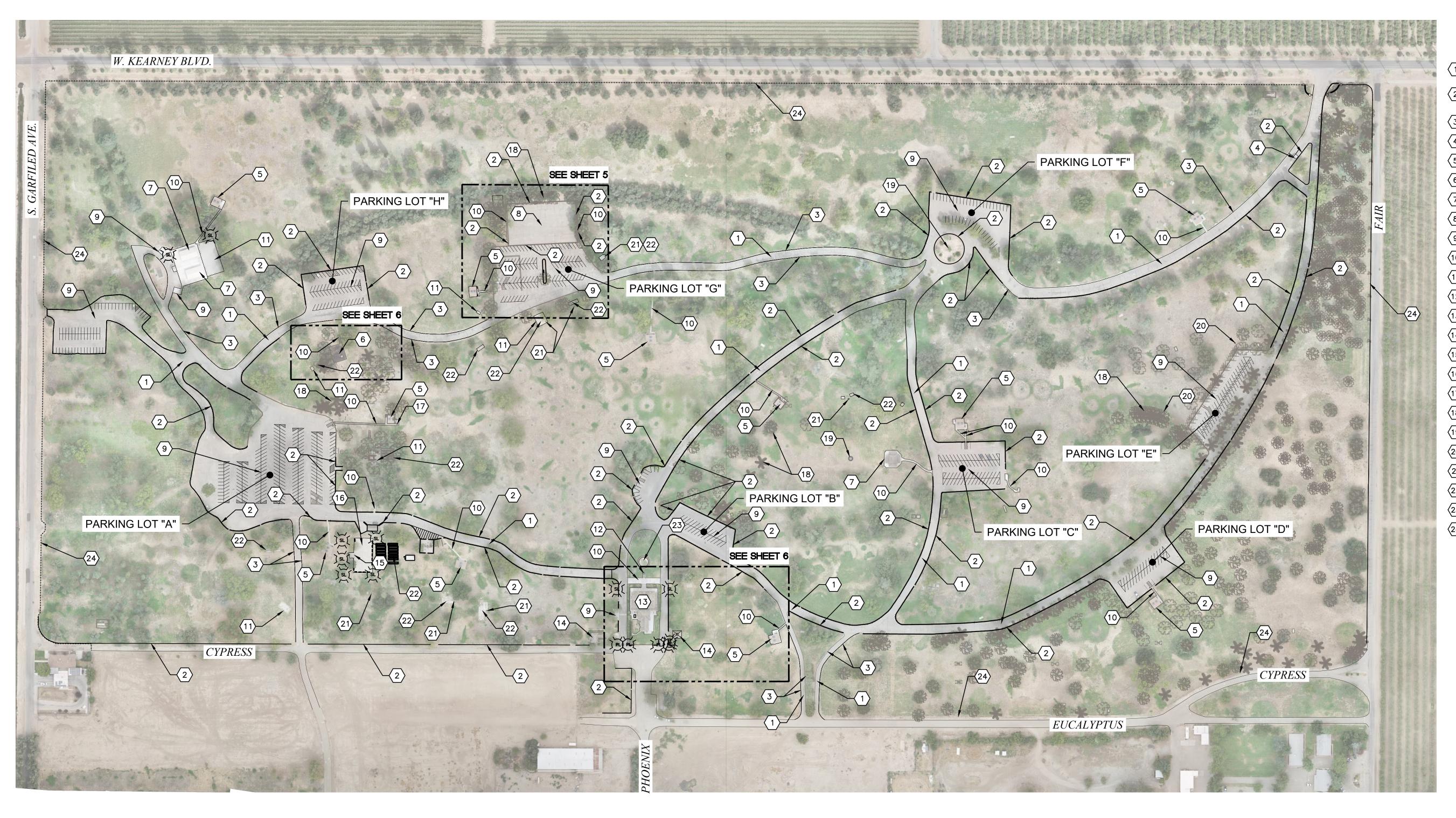
GENERAL NOTES

DRAWING NO. 11338

SHEET NO. 3

TOTAL 42

DATE



KEYNOTES:

- (1) (E) ACCESS ROAD (TYP.)
- (E) ROCK WALL TO BE REPAIRED

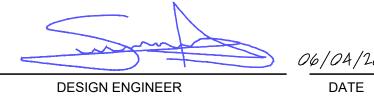
 (TYP. AT SEVERAL LOCATIONS)

 (SEE SHEET 18)
- (E) CONCRETE CURB (TYP. AT SEVERAL LOCATIONS)
- (E) PARK ENTRANCE BOOTH
- (5) (E) RESTROOM
- 6 (E) PLAYGROUND STRUCTURE
- (7) (E) PICNIC SHELTER
- (8) (E) TENNIS COURT
- 9 (E) PARKING AREA
- (10) (E) CONCRETE WALKWAY
- (11) (E) CONCRETE SLAB (TYP.)
- (12) (E) FLAG POLE
- (13) (E) KEARNEY MANSION
- (14) (E) CARRIAGE HOUSE / GARAGE
- (15) (E) STAGE
- (16) (E) DANCE AREA
- (17) (E) WATER FOUNTAIN
- (18) (E) TREE (TYP.)
- (19) (E) PLANTER
- (20) (E) DISC GOLF BASKET
- (21) (E) BBQ PIT (TYP.)
- (22) (E) PICNIC TABLE (TYP.)
- (23) (E) FOUNTAIN
- (24) (E) FENCE (TYP.)





	DATE	RECORD DRAWING		SCALE
DESIGNED: CZ	03/04/24	RESIDENT ENGINEER	DATE	
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CHECKED: SA	01/15/25			VIIIIIIII
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS D	ETERMINATION, SE	E DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANN	IING.	





F	PROJECT	
KEARNEY PA	ARK IMPROVEMENTS	

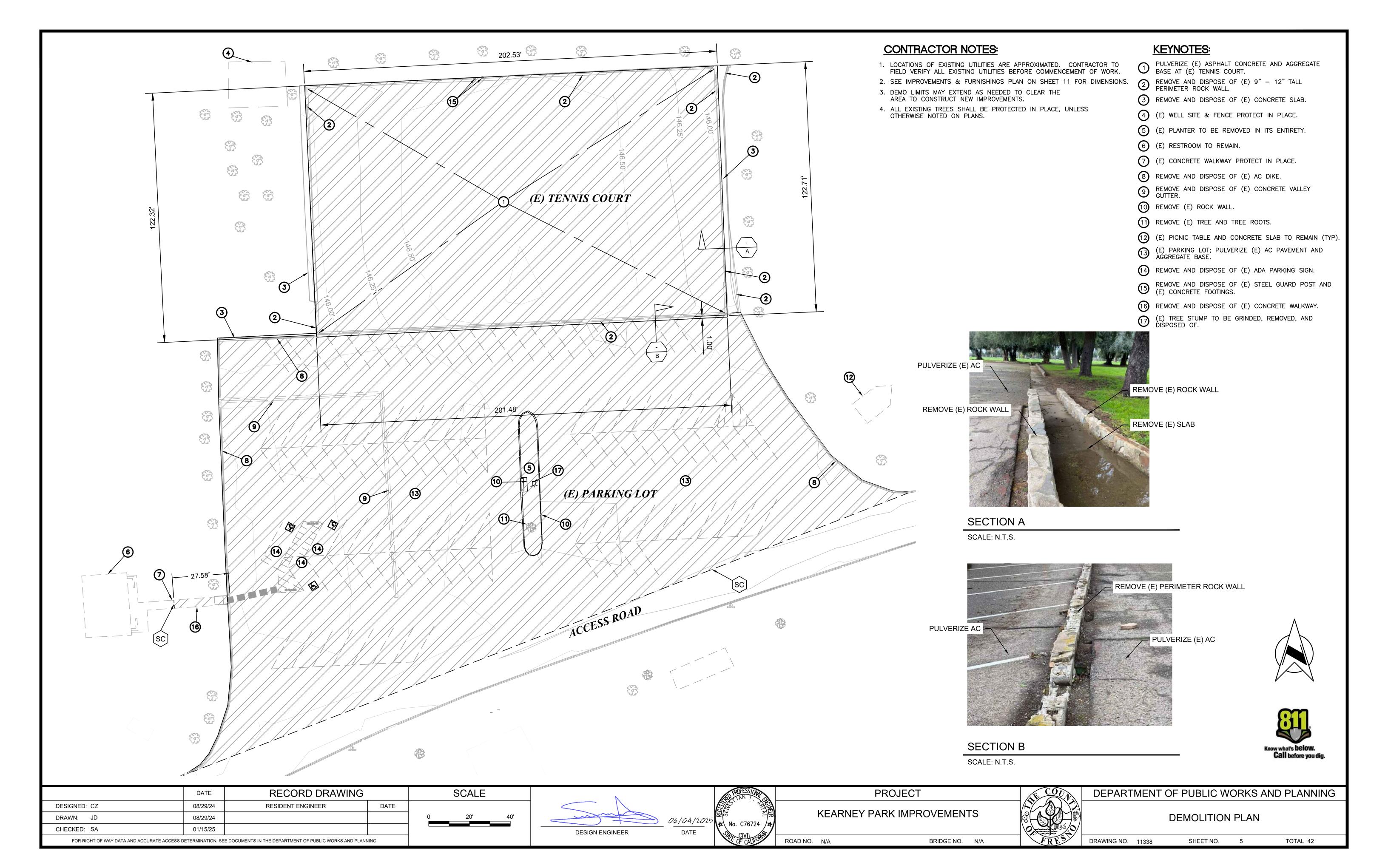
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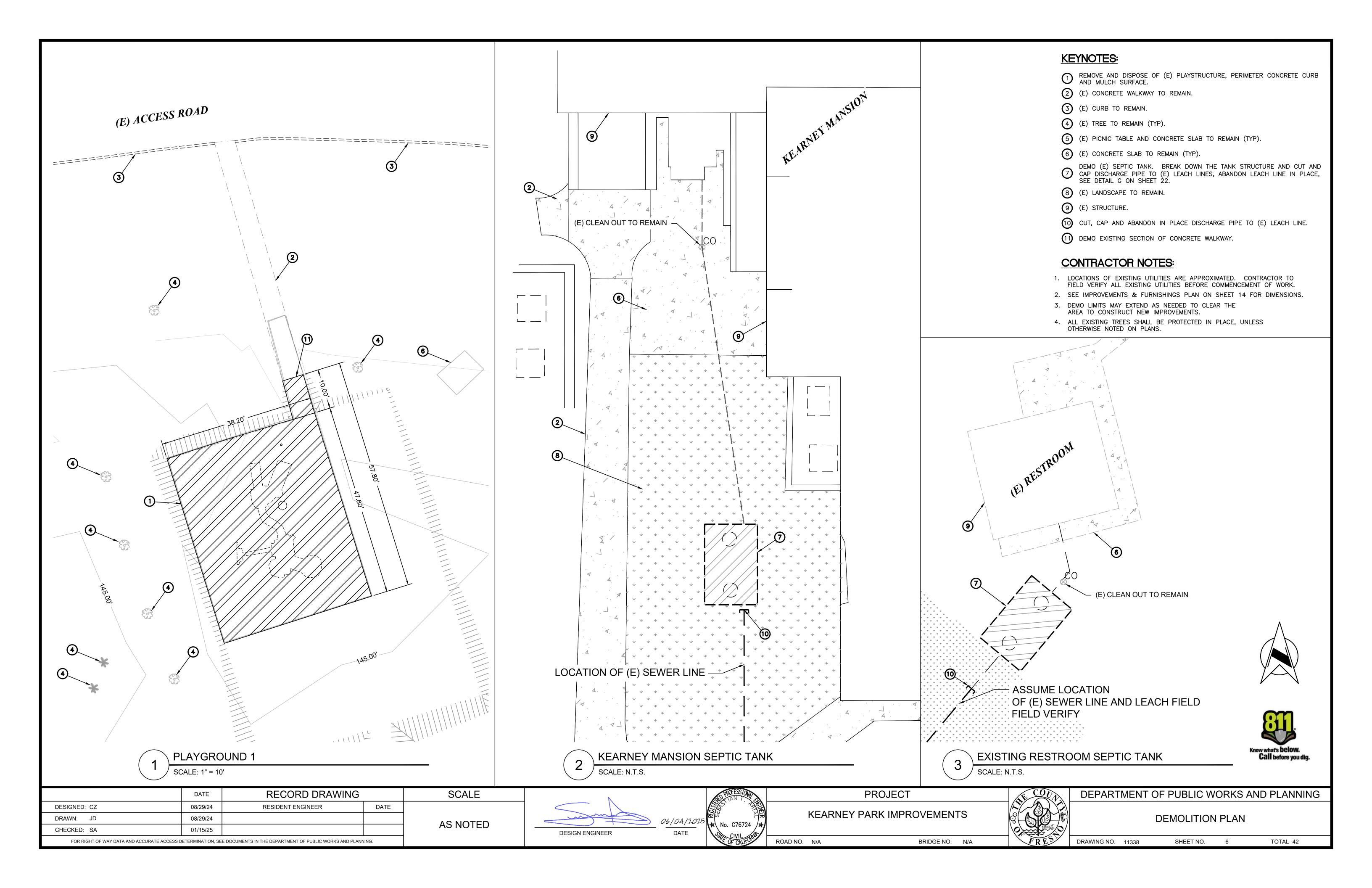


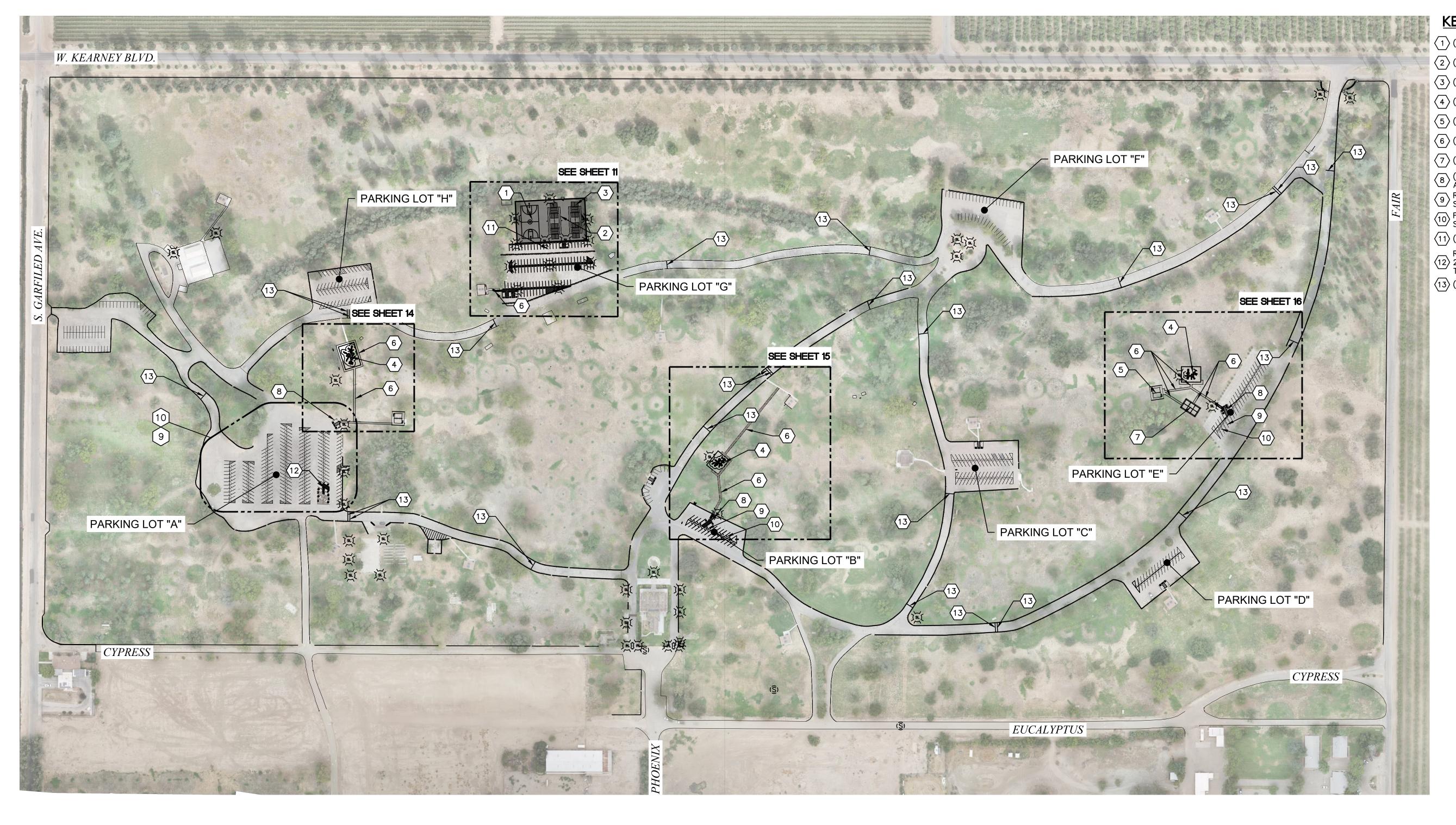
DEPARTMENT	OF PUB	LIC WOR	KS AND P	LANNING

EXISTING SITE PLAN

DRAWING NO. 11338 SHEET NO. 4 TOTAL 42







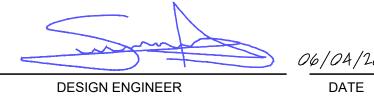


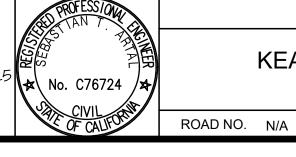
- 1 (N) BASKETBALL COURT.
- 2 (N) TENNIS COURT (TYP OF 2).
- $\sqrt{3}$ (N) PICKLEBALL COURT (TYP OF 4).
- 4 (N) PLAY STRUCTURE.
- $\langle 5 \rangle$ (N) RESTROOM.
- 6 (N) CONCRETE WALKWAY.
- $\overline{7}$ (N) PICNIC SHELTER.
- (N) ADA PARKING SEE SHEET 19 FOR STRIPING AND SIGNAGE DETAIL.
- 9 RE-STRIPE EXISTING PARKING WITH 4" WHITE STRIPING. ENTIRE PARKING LOT A, B, AND E.
- FURNISH AND INSTALL PARKING BUMPER (TYP) SEE DETAIL 5 ON SHEET 19.
- $\langle 11 \rangle$ (N) RECONSTRUCT PARKING LOT, SEE SHEET 11.
- RESTRIPE ADA PARKING LOT PER PLANS. ADD 2-NEW ADA PARKING STRIPING AND SIGNAGE. TOTAL OF 6 ADA STALL
- (13) (N) SPEED BUMP SEE DETAIL 8 ON SHEET 20.





	DATE	RECORD DRAWING		SCALE
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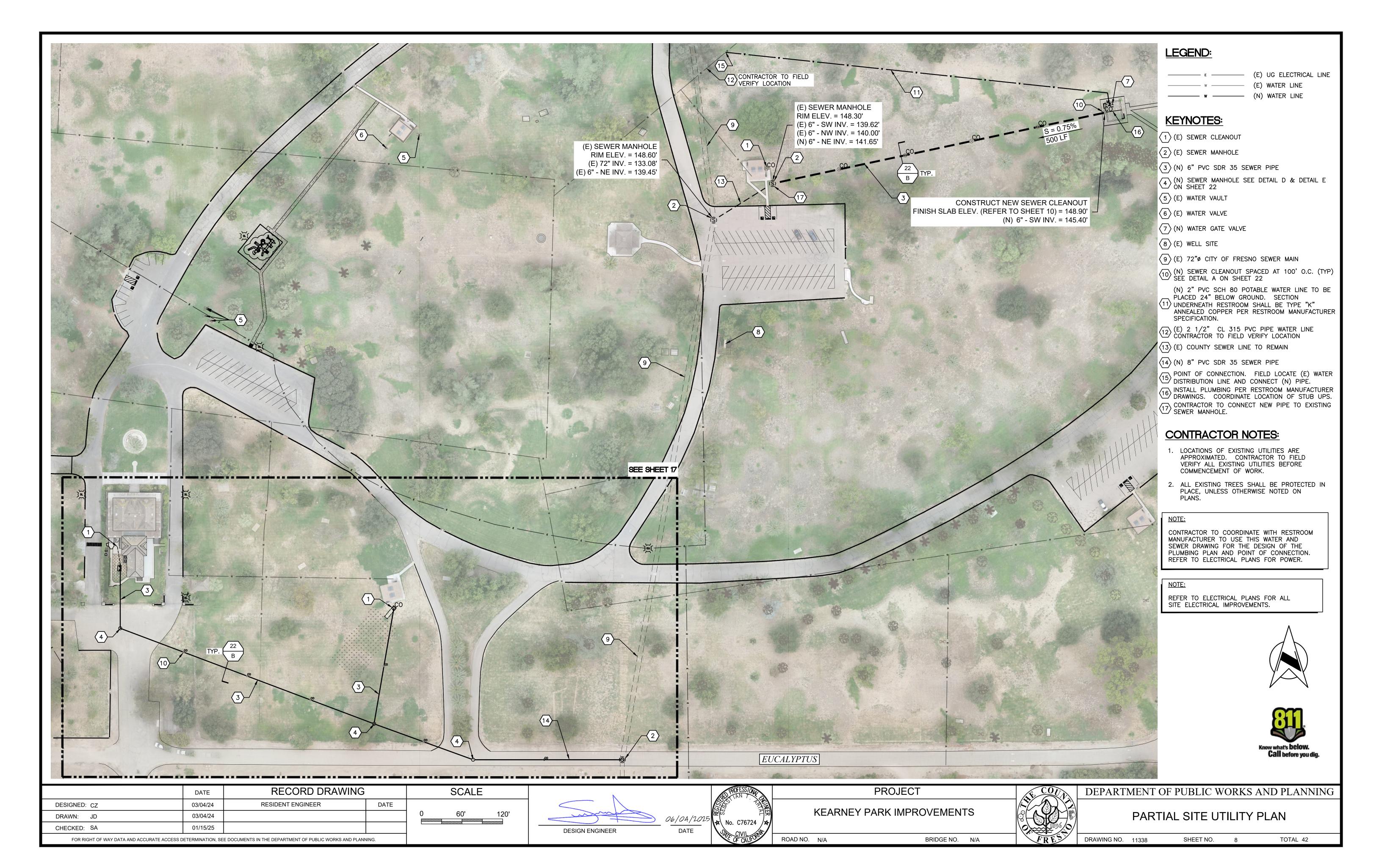
PROJECT	
KEARNEY PARK IMPROVEMENTS	

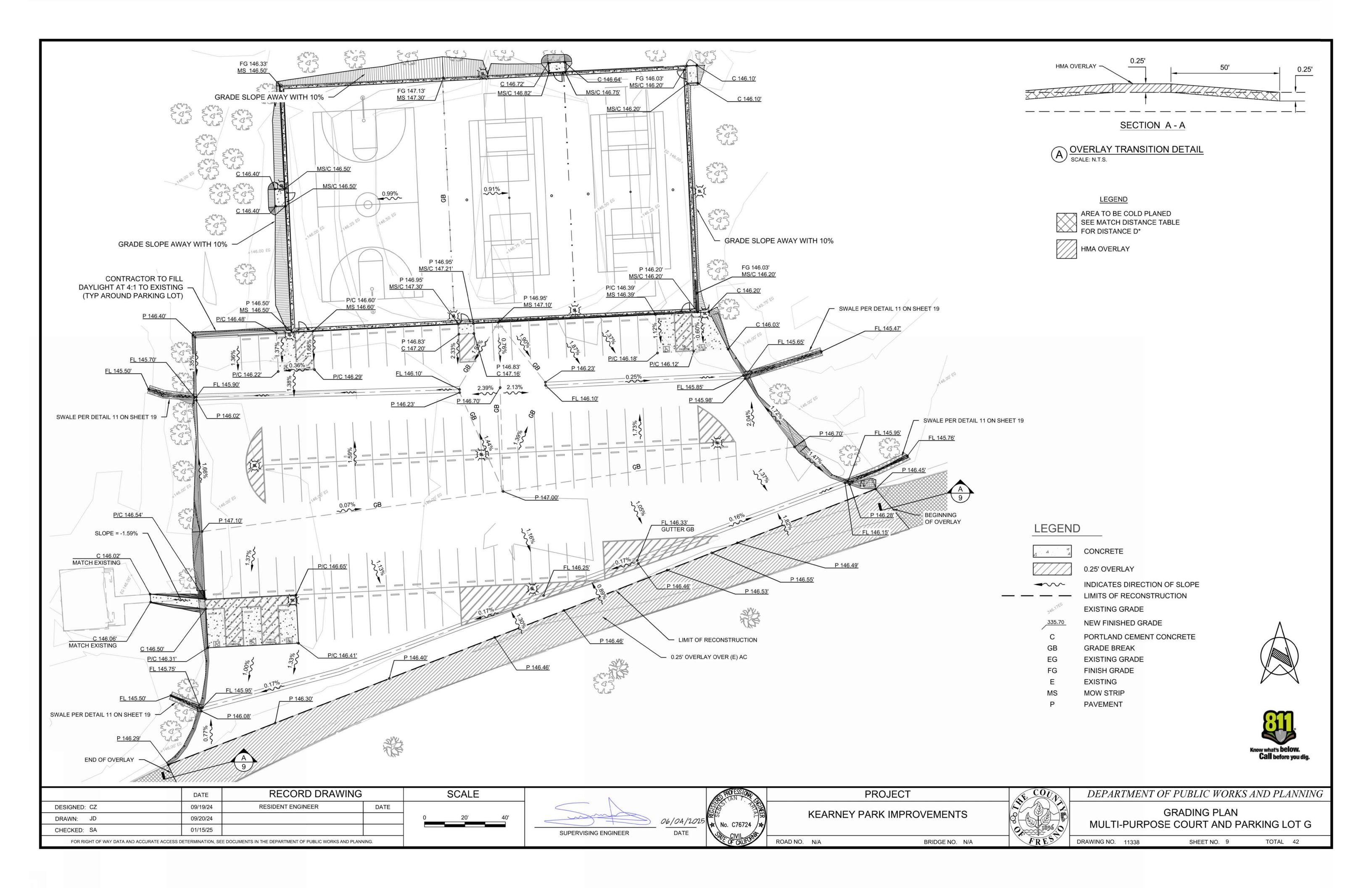
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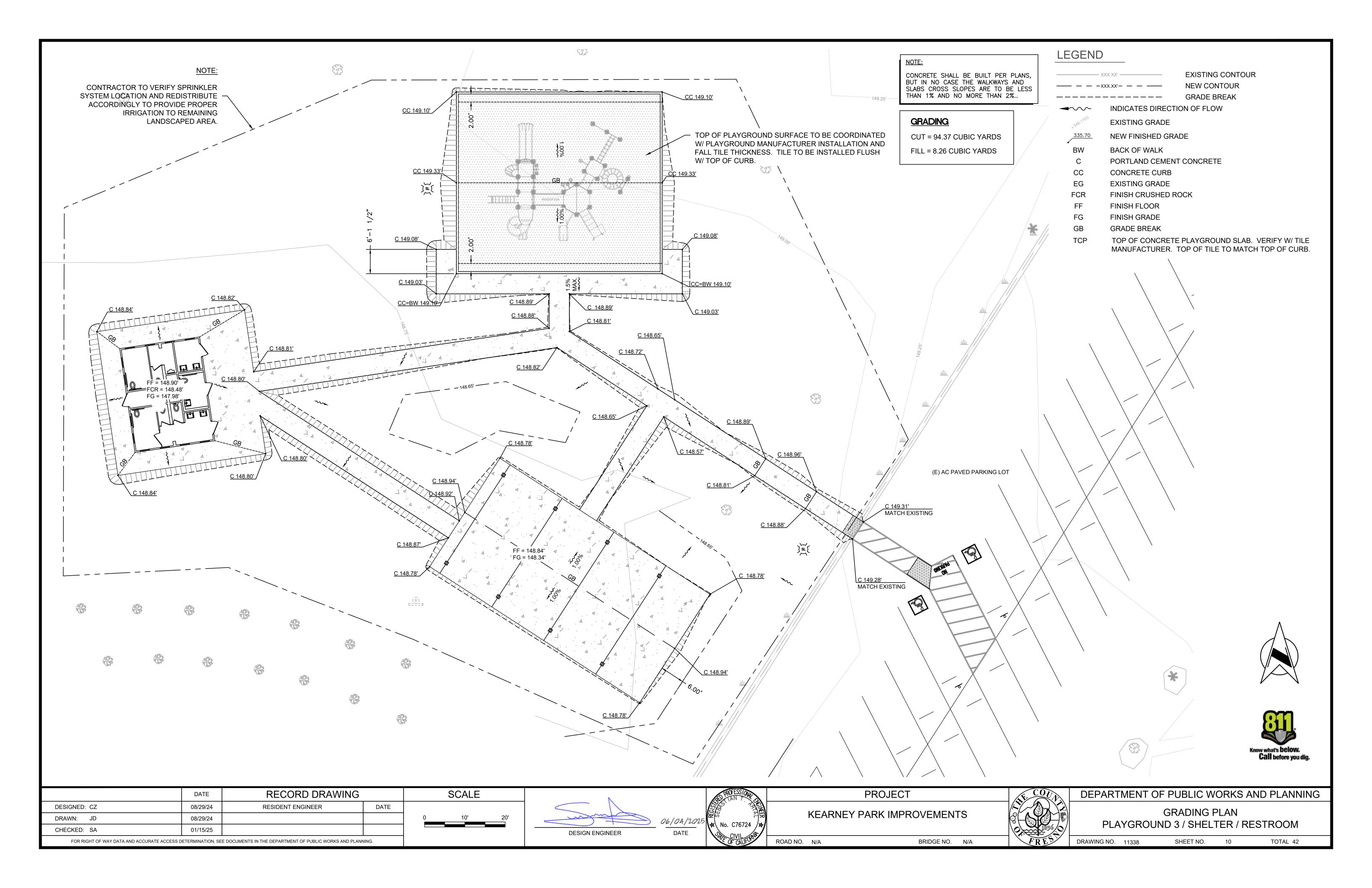


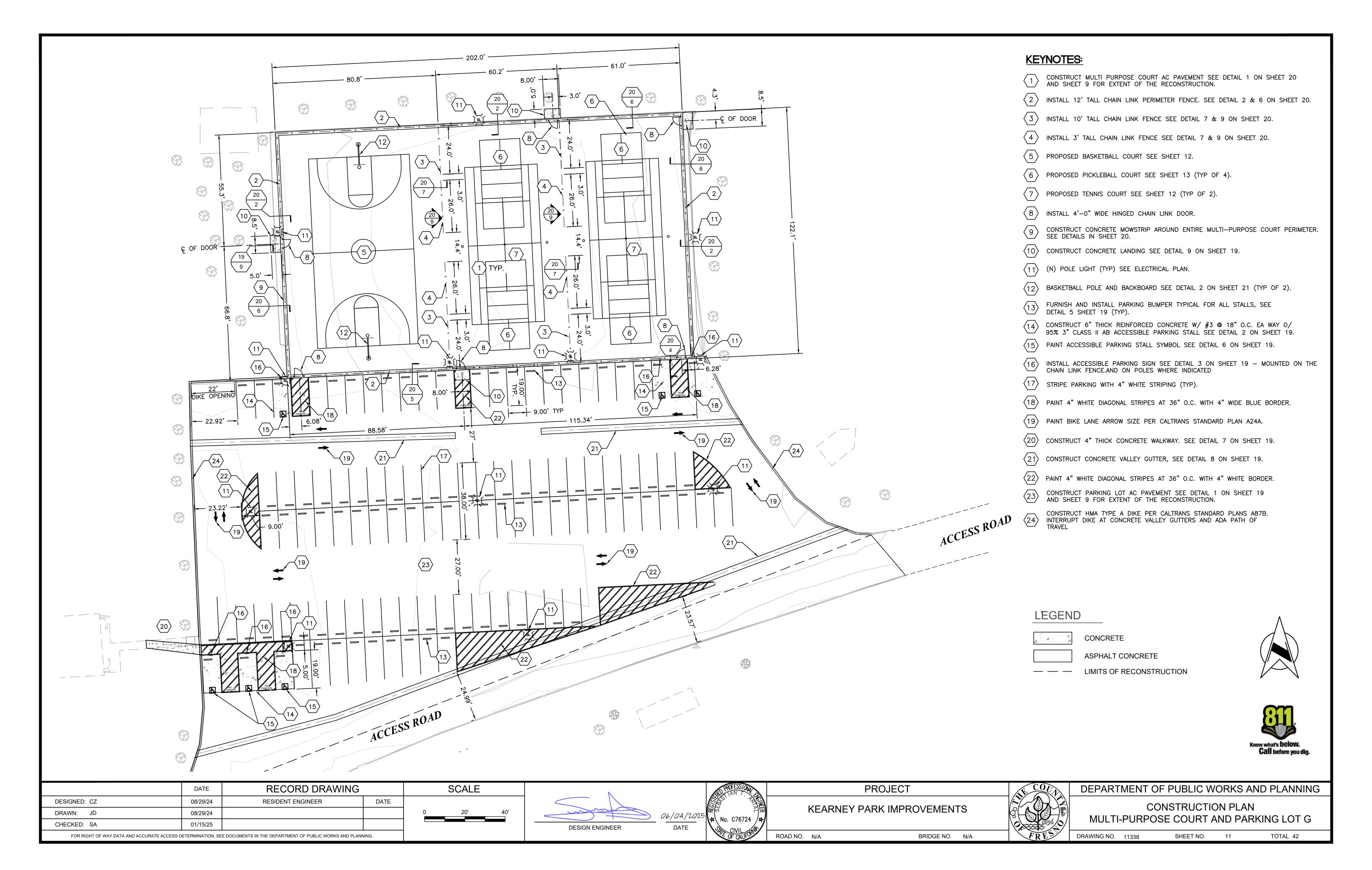
SITE IMPROVEMENT PLAN	1

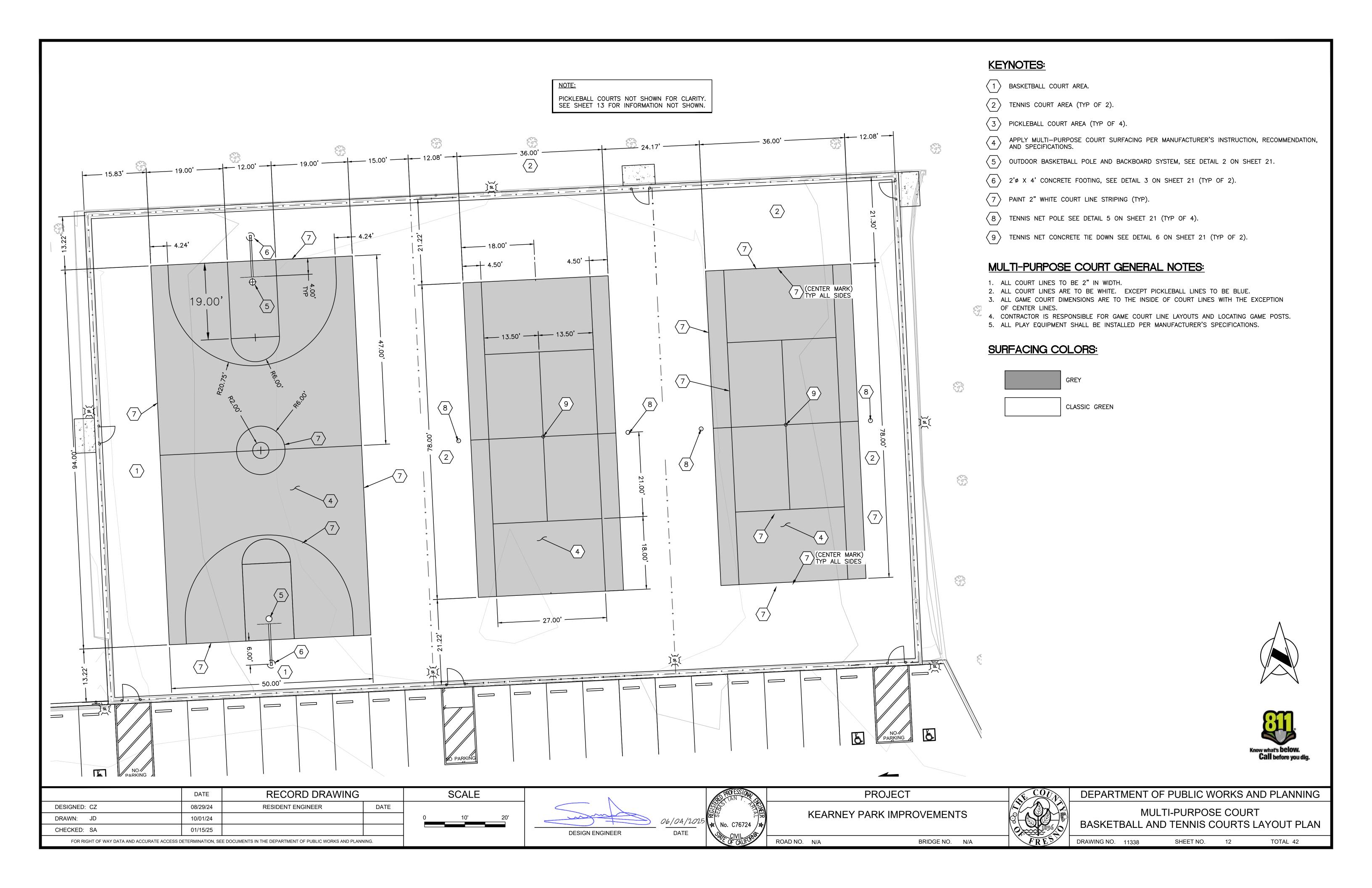
DRAWING NO. 11338 SHEET NO. 7 TOTAL 42

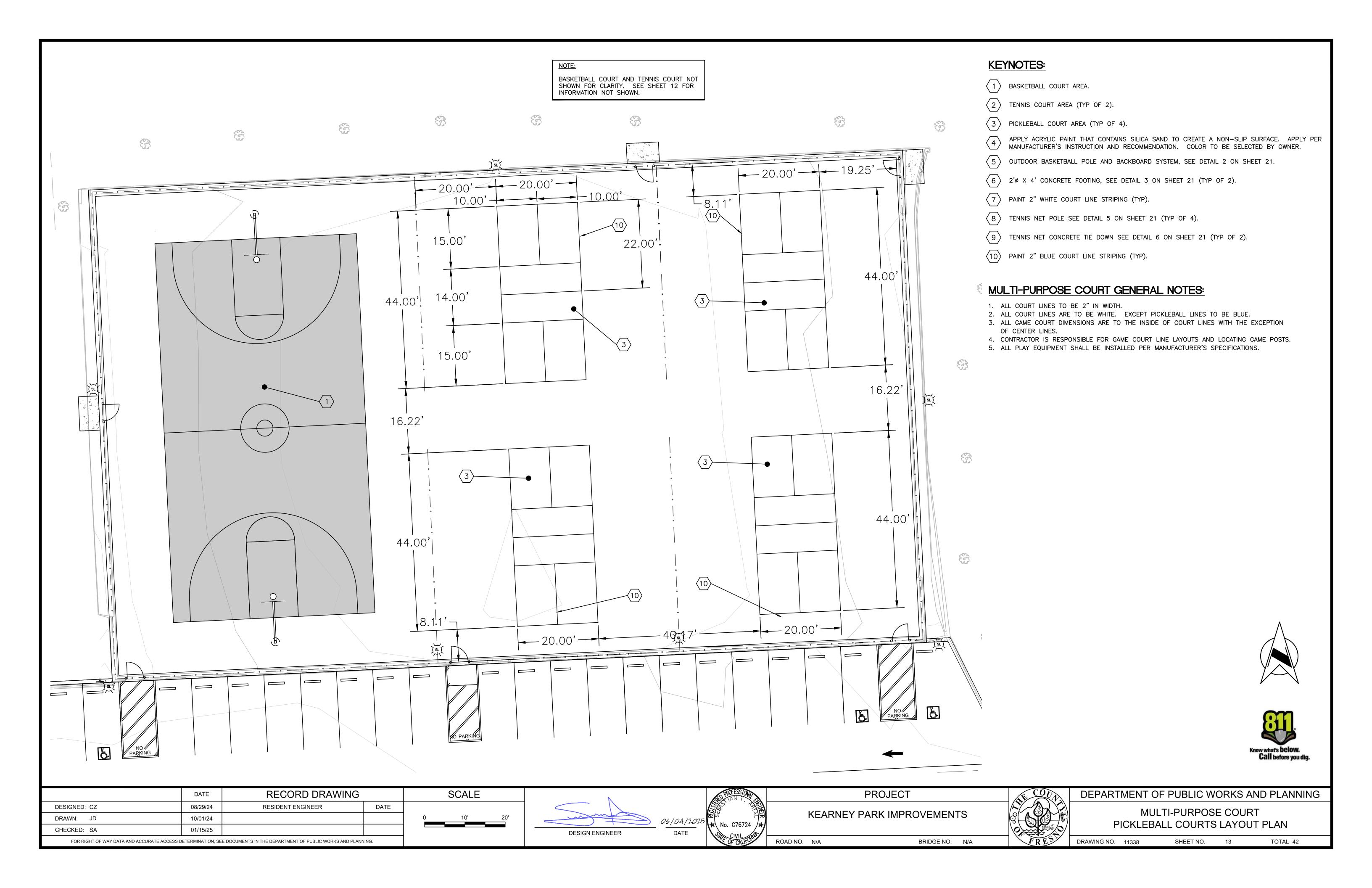


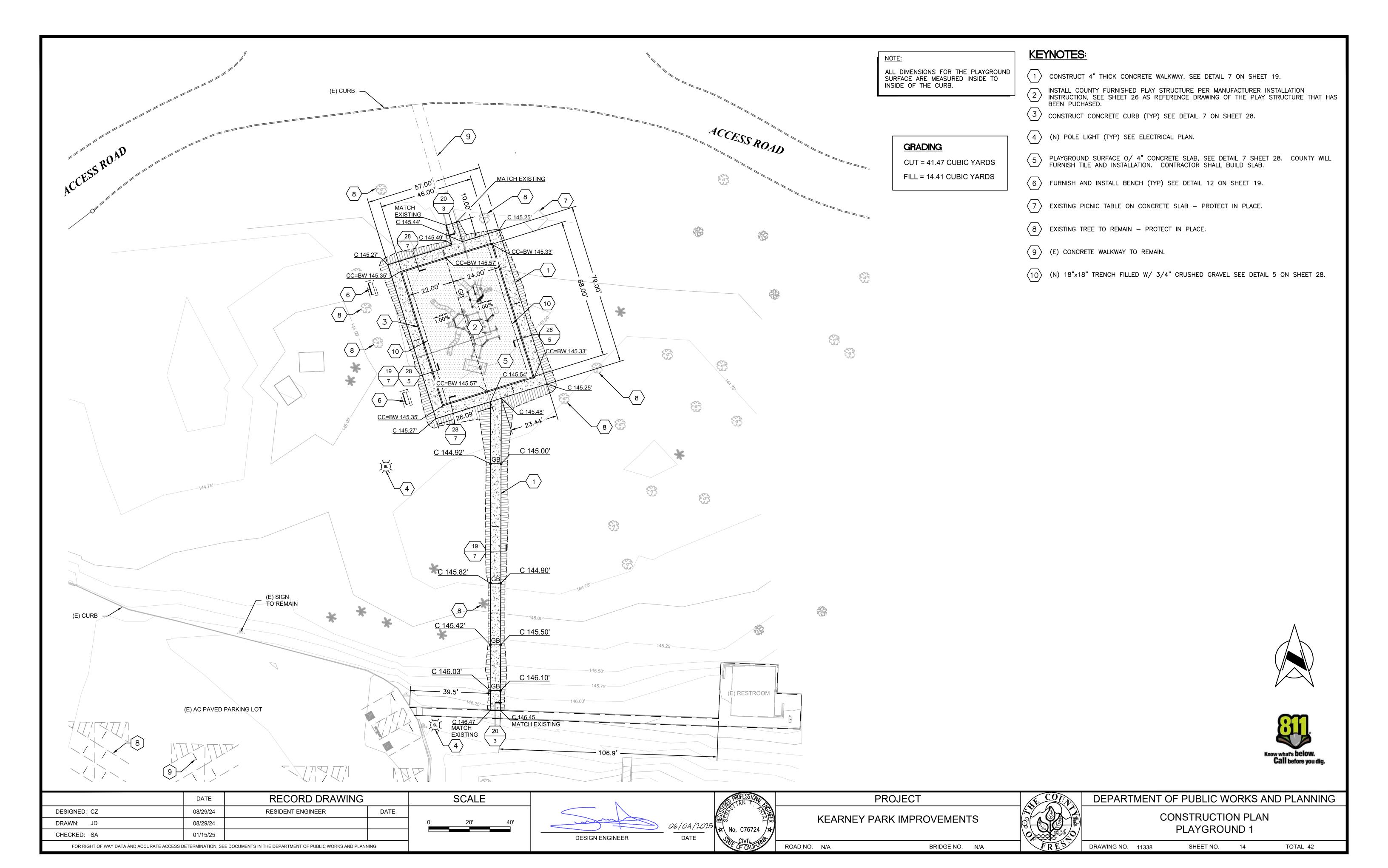


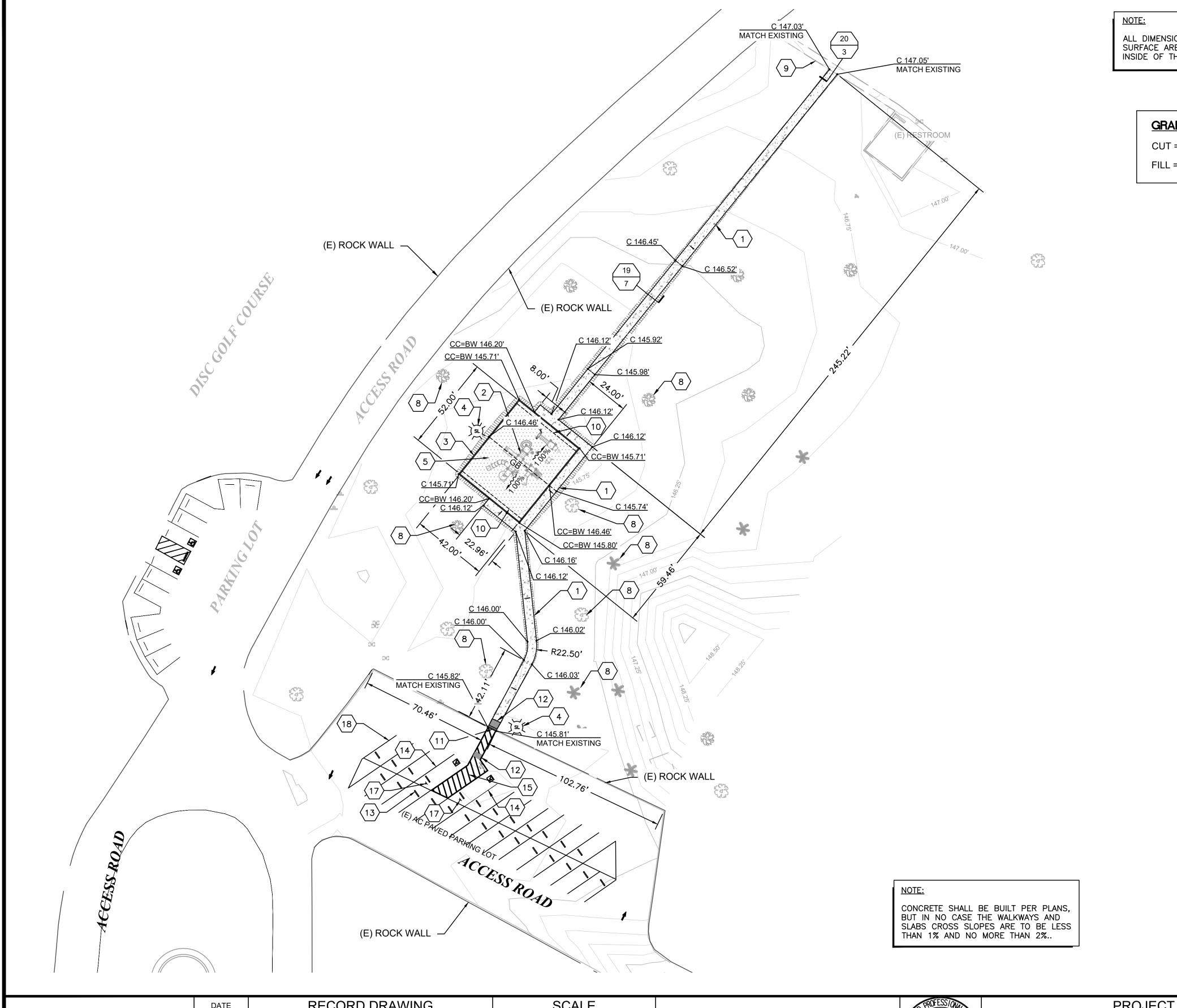












ALL DIMENSIONS FOR THE PLAYGROUND SURFACE ARE MEASURED INSIDE TO INSIDE OF THE CURB.

CUT = 11.15 CUBIC YARDS

FILL = 20.98 CUBIC YARDS

GRADING

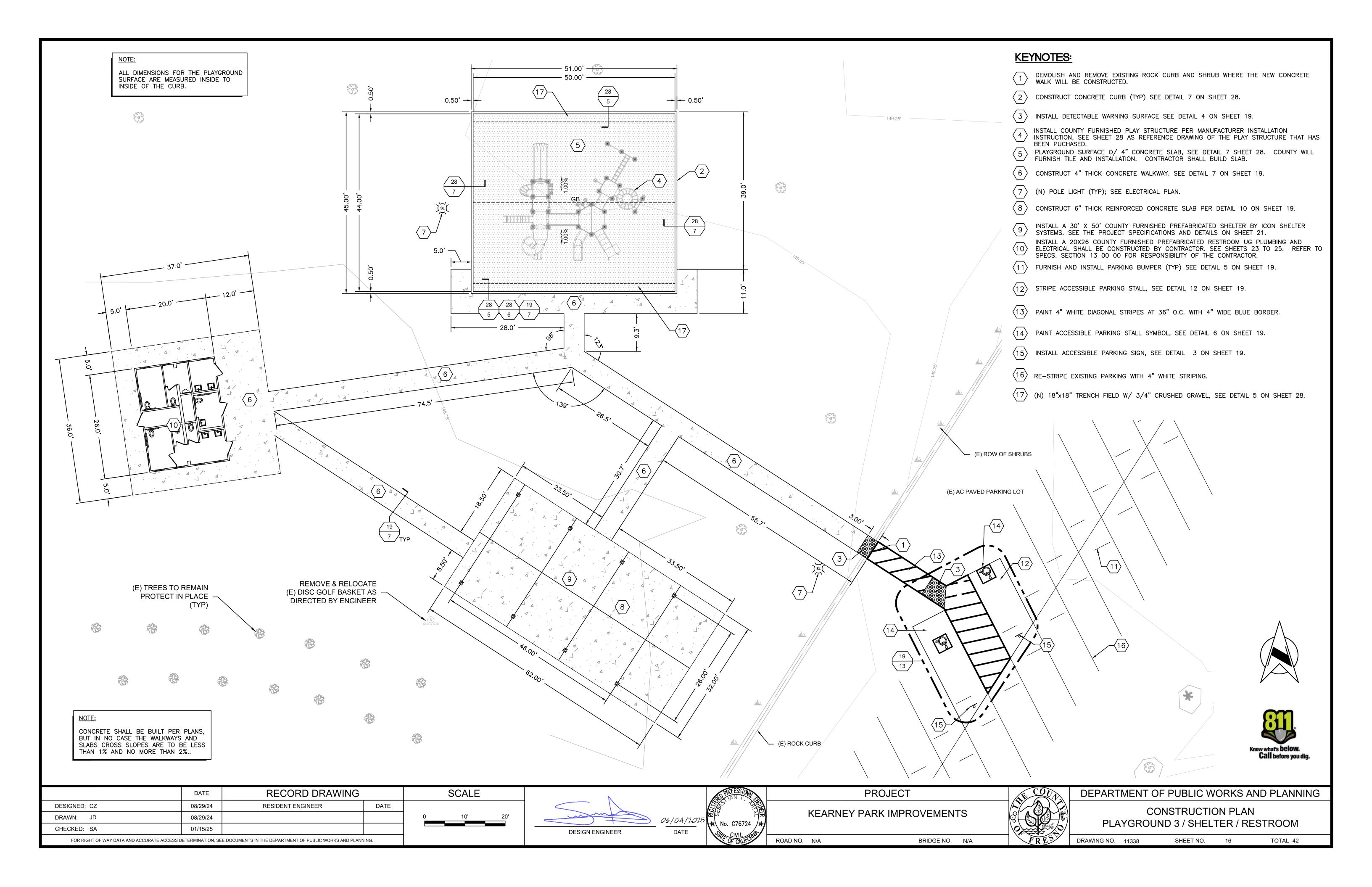
KEYNOTES:

- (1) CONSTRUCT 4" THICK CONCRETE WALKWAY. SEE DETAIL 7 ON SHEET 19.
- INSTALL COUNTY FURNISHED PLAY STRUCTURE PER MANUFACTURER INSTALLATION INSTRUCTION, SEE SHEET 27 AS REFERENCE DRAWING OF THE PLAY STRUCTURE THAT HAS BEEN PUCHASED.
- CONSTRUCT CONCRETE CURB (TYP) SEE DETAIL 7 ON SHEET 28.
- 4 (N) POLE LIGHT (TYP) SEE ELECTRICAL PLAN.
- PLAYGROUND SURFACE O/ 4" CONCRETE SLAB, SEE DETAIL 7 SHEET 28. COUNTY WILL FURNISH TILE AND INSTALLATION. CONTRACTOR SHALL BUILD SLAB.
- $\langle 6 \rangle$ FURNISH AND INSTALL BENCH (TYP) SEE DETAIL 11 ON SHEET 19.
- (E) PICNIC TABLE ON CONCRETE SLAB PROTECT IN PLACE.
- (E) TREE TO REMAIN PROTECT IN PLACE.
- (E) CONCRETE WALKWAY TO REMAIN.
- $\langle 10 \rangle$ (N) 18"x18" TRENCH FILLED W/ 3/4" CRUSHED GRAVEL SEE DETAIL 5 ON SHEET 28.
- DEMOLISH AND REMOVE (E) ROCK CURB WHERE THE NEW CONCRETE WALK WILL BE CONSTRUCTED.
- (12) INSTALL DETECTABLE WARNING SURFACE SEE DETAIL 4 ON SHEET 19.
- FURNISH AND INSTALL PARKING BUMPER (TYP) SEE DETAIL 5 ON SHEET 19.
- \$\langle 14 \rangle STRIPE ACCESSIBLE PARKING STALL, SEE DETAIL 12 ON SHEET 19.
- (15) PAINT 4" WHITE DIAGONAL STRIPES AT 36" O.C. WITH 4" WIDE BLUE BORDER.
- PAINT ACCESSIBLE PARKING STALL SYMBOL, SEE DETAIL 6 ON SHEET 19.
- INSTALL ACCESSIBLE PARKING SIGN, SEE DETAIL 3 ON SHEET 19.
- $\langle 18 \rangle$ RE-STRIPE EXISTING PARKING WITH 4" WHITE STRIPING.





	DATE	RECORD DRAWING		SCALE	N.	PROFESS/ONA	PROJECT	COUN	DEPARTMENT OF PUBLIC WORKS AND PLANNING
DESIGNED: CZ	08/29/24	RESIDENT ENGINEER	DATE			CAN THE SECOND			CONSTRUCTION PLAN
DRAWN: JD	08/29/24		O	0 30' 60'	06/04/2015		KEARNEY PARK IMPROVEMENTS		PLAYGROUND 2
CHECKED: SA	01/15/25				DESIGN ENGINEER DATE	1 NO. C/6/24			PLATGROUND 2
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				OF CALIFORN	ROAD NO. N/A BRIDGE NO. N/A	FRES	DRAWING NO. 11338 SHEET NO. 15 TOTAL 42		



CONTRACTOR NOTES:

- 1. PROTECT IN PLACE EXISTING CONCRETE CURBS ENCOUNTERED DURING TRENCHING; IF AC DIKES IS ENCOUNTERED, SAWCUT, REMOVE, AND REPLACE TO MATCH EXISTING.
- 2. MINIMUM DISTANCE BETWEEN SANITARY SEWER AND WATER MAIN SHALL BE 10 FEET HORIZONTALLY.
- 3. SEWER AND WATER MATERIALS AND FACILITIES SHALL ALSO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, 2022 EDITION OR MOST UP TO DATE EDITION.
- 4. CONTRACTOR SHALL REPAIR ANY COMPONENT OF THE EXISTING IRRIGATION SYSTEM (I.E. PIPE HEADS, ETC.) THAT MAY BE DAMAGED WHEN INSTALLING THE PIPE.
- 5. (*) ANTICIPATED INVERT ELEVATION. CONTRACTOR TO VERIFY ELEVATION ON SITE AND BRING IT TO THE ATTENTION OF THE ENGINEER IF DIFFER FROM THE PLANS PRIOR TO INSTALL ANY SECTION OF

DATE

06/26/24

02/07/25

01/15/25

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

DESIGNED: CZ

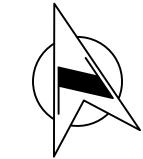
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RESIDENT ENGINEER

DATE





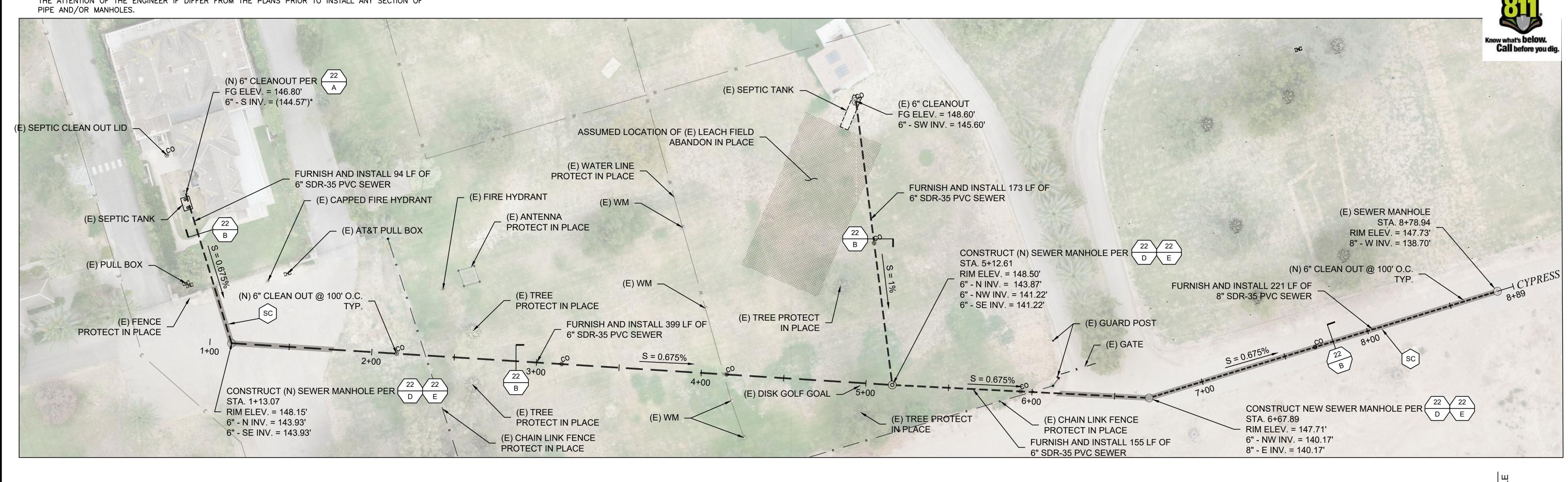
SEWER PLAN AND PROFILE

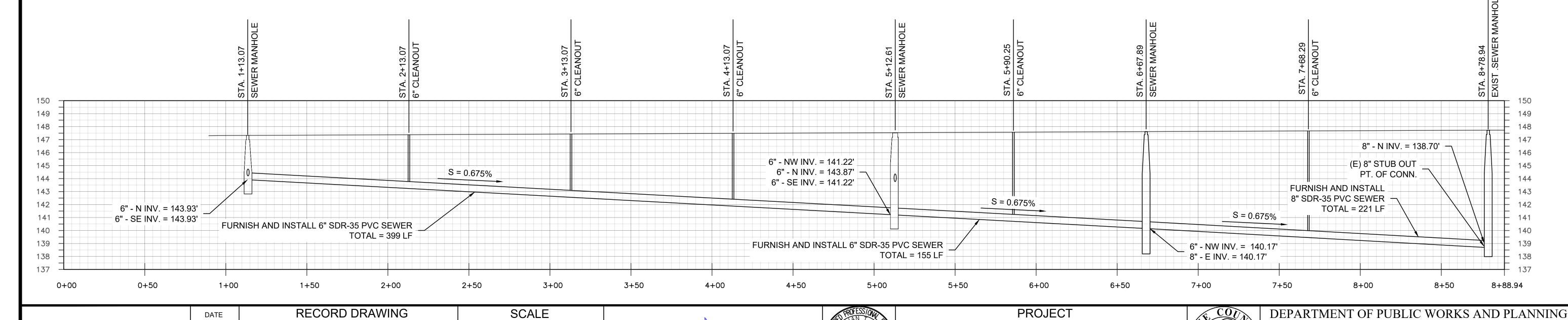
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TOTAL 42

SHEET NO.

DRAWING NO. 11338





06/04/202

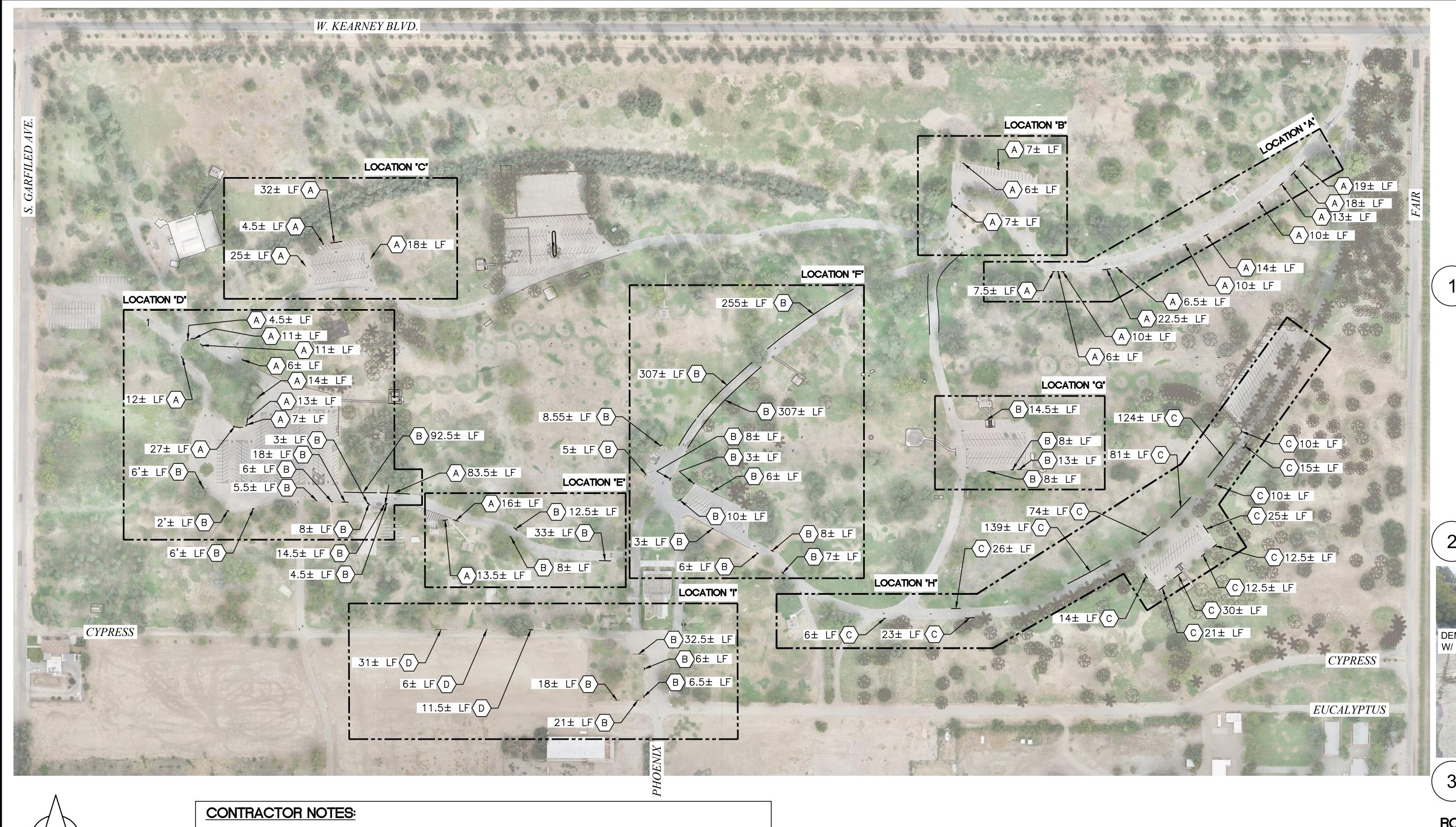
DATE

DESIGN ENGINEER

KEARNEY PARK IMPROVEMENTS

BRIDGE NO. N/A

ROAD NO. N/A





ROCK WALL TYPE (A) (TYP.)



ROCK WALL TYPE $\langle B \rangle$ (TYP.)



(E) ROCK WALL TO BE DEMOED

HOCK	WALL IT		
TYPE	WIDTH (IN.)	HEIGHT (IN.)	TYPE OF ROCK
A	12"	7" – 12"	RIVER ROCK
B	12"	7" — 9"	SLATE
(c)	12"	12"	RIVER ROCK
D	16"	16"	SLATE

ROCK WALL TYPE.

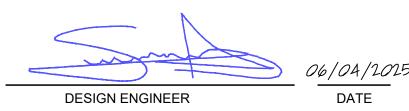
		<u> </u>	
TYPE	WIDTH (IN.)	HEIGHT (IN.)	TYPE OF ROCK
A	12"	7" – 12"	RIVER ROCK
B	12"	7" — 9"	SLATE
C	12"	12"	RIVER ROCK
D	16"	16"	SLATE
	10		SLAIE

- 1. CONTRACTOR TO FIELD VERIFY ALL EXISTING ROCK WALL REPAIR LOCATIONS BEFORE COMMENCEMENT OF WORK.
- 2. ROCK WALL REPAIR LENGTHS ARE APPROXIMATE AND HAS TO BE VERIFIED ONSITE.
- 3. SEE PROJECT SUPPLEMENTAL INFORMATION FOR MORE ROCK WALL DETAILS.
- 4. CONTRACTOR TO BRING TO THE ATTENTION OF THE ENGINEER IF IDENTIFY ANY LOOSE ROCKS, CRACKED STONES, AREAS WITH MISSING MORTAR, OR SIGNIFICANT STRUCTURAL ISSUES.
- 5. CLEAR THE AREA AROUND THE WALL TO ACCESS THE DAMAGED SECTIONS.
- 6. CAREFULLY PRY OUT ANY LOOSE ROCKS, TAKING CARE NOT TO DAMAGE SURROUNDING STONES.
- 7. THOROUGHLY CLEAN THE EXISTING STONES AND MORTAR JOINTS TO REMOVE DEBRIS AND ENSURE PROPER ADHESION OF NEW MORTAR.
- 8. CHOOSE A MORTAR MIX PER SPECIFICATIONS..

Know what's **below. Call** before you dig.

- 9. CAREFULLY PLACE REMOVED STONES BACK INTO THEIR ORIGINAL POSITIONS, ADJUSTING AS NEEDED TO MAINTAIN ALIGNMENT AND STABILITY.
- 10. APPLY THE MORTAR MIX TO THE JOINTS BETWEEN STONES, FILLING ANY GAPS AND ENSURING A TIGHT SEAL. 11. USE A TROWEL TO SHAPE THE MORTAR JOINTS, ACHIEVING A SMOOTH AND AESTHETICALLY PLEASING FINISH.

	DATE	RECORD DRAWING	SCALE	
DESIGNED: CZ	03/04/25	RESIDENT ENGINEER	DATE	
DRAWN: JD	03/04/25			0 150' 300'
CHECKED: SA	01/15/25			VIIIIIIII
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS D				



ROAD NO. N/A

PROJECT KEARNEY PARK IMPROVEMENTS

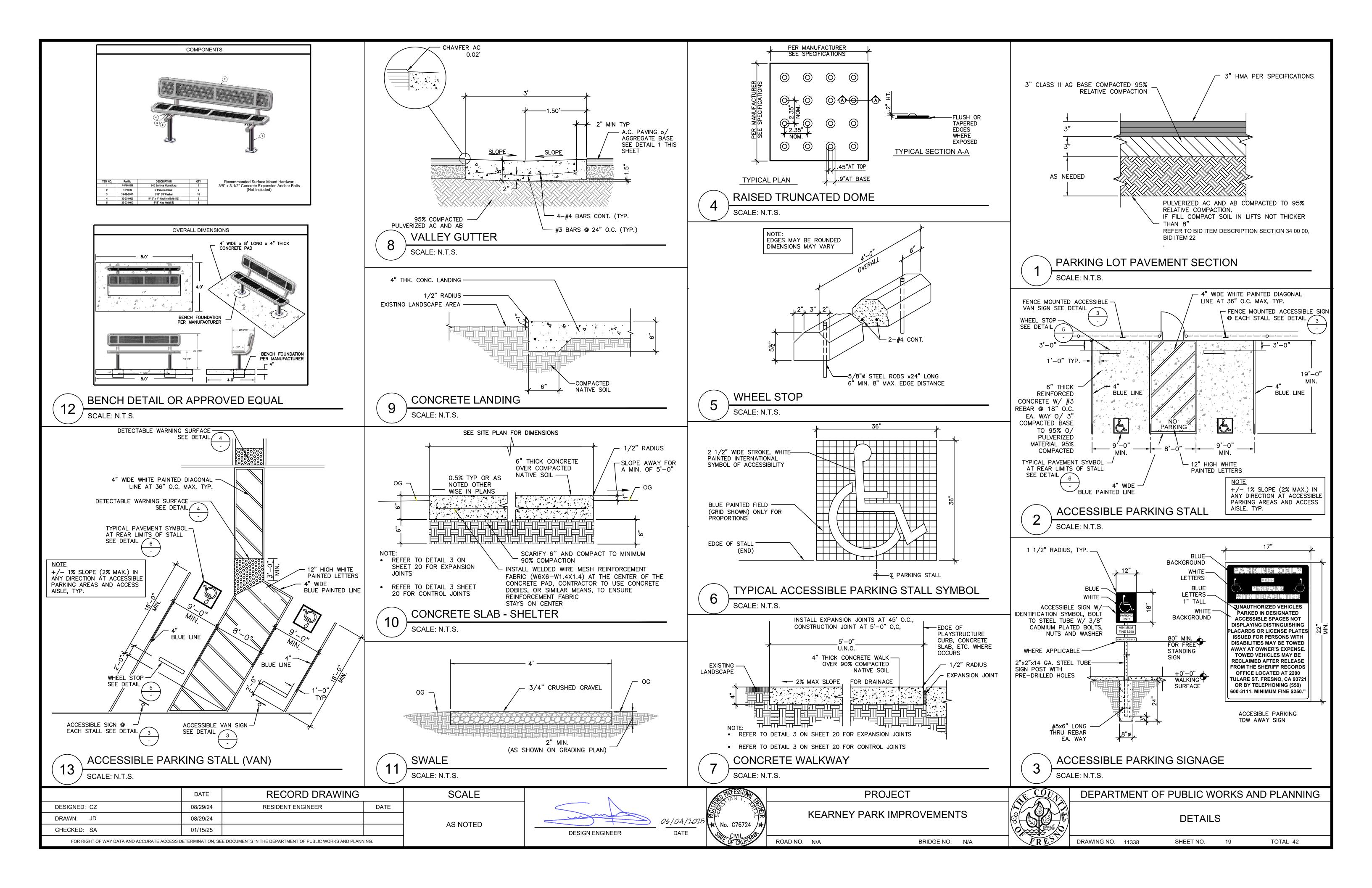
BRIDGE NO. N/A

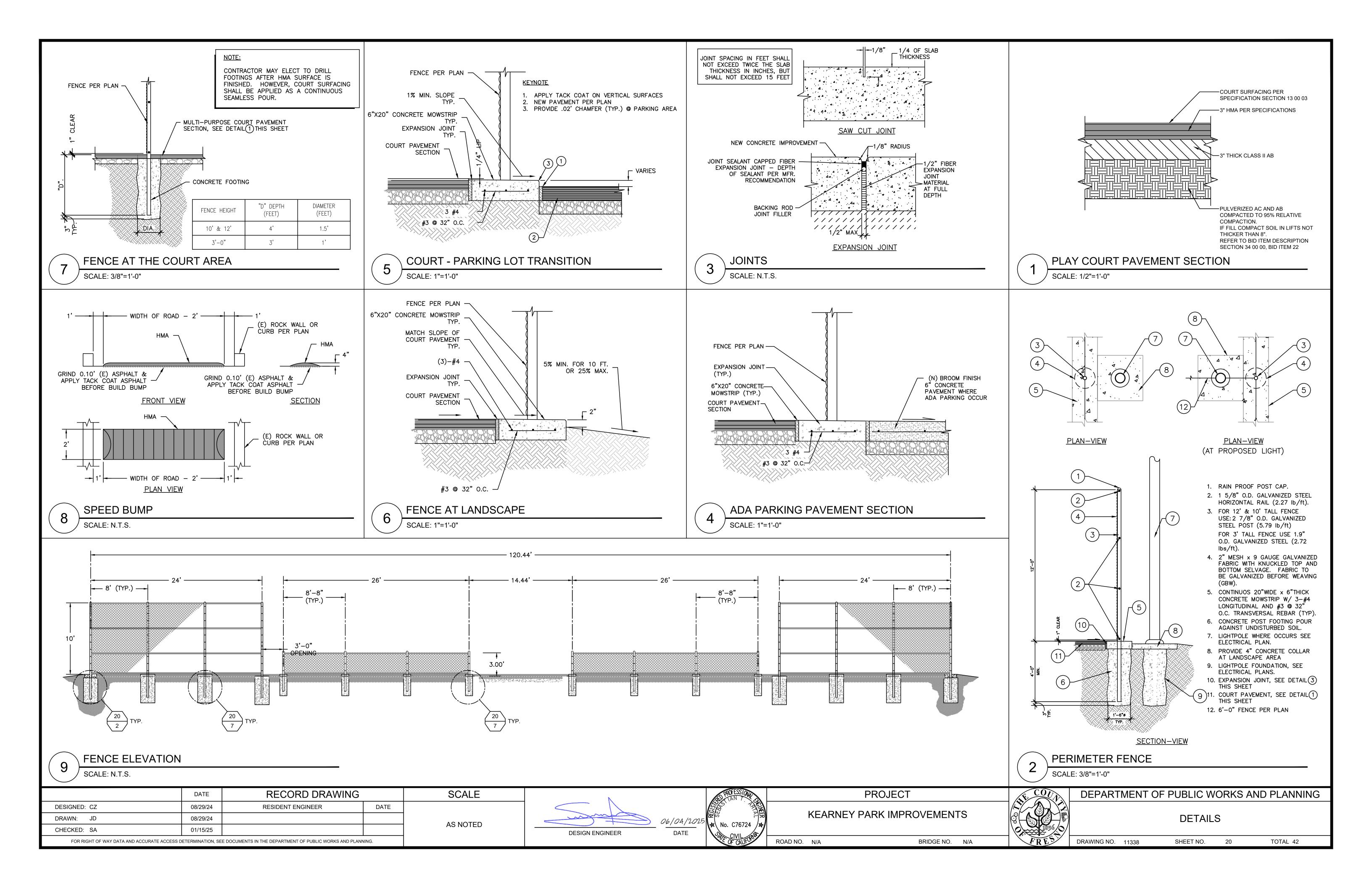


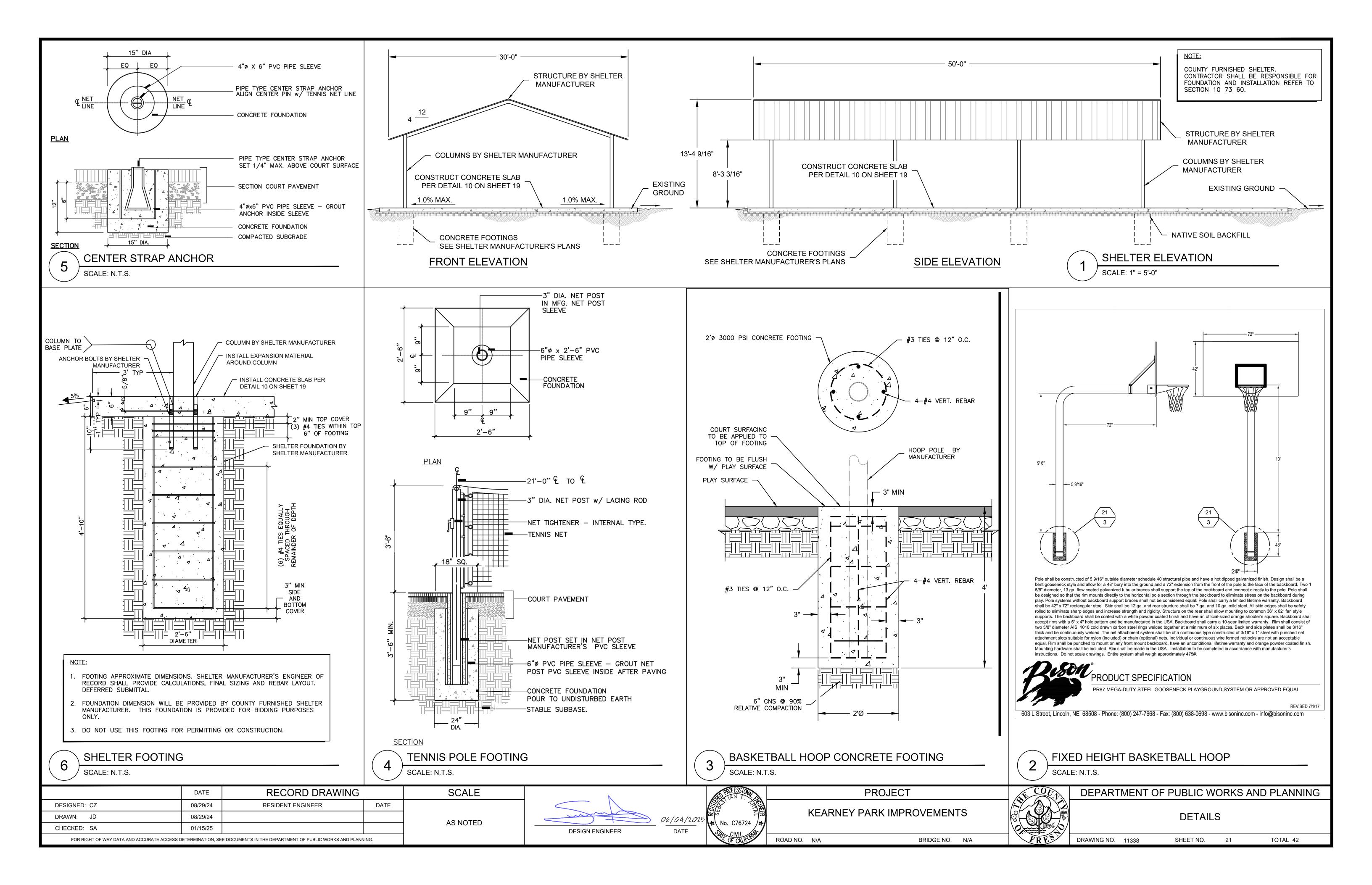
DEPARTMENT OF PUBLIC WORKS AND PLANNING

ROCK WALL PLAN

DRAWING NO. 11338 SHEET NO. 18 TOTAL 42



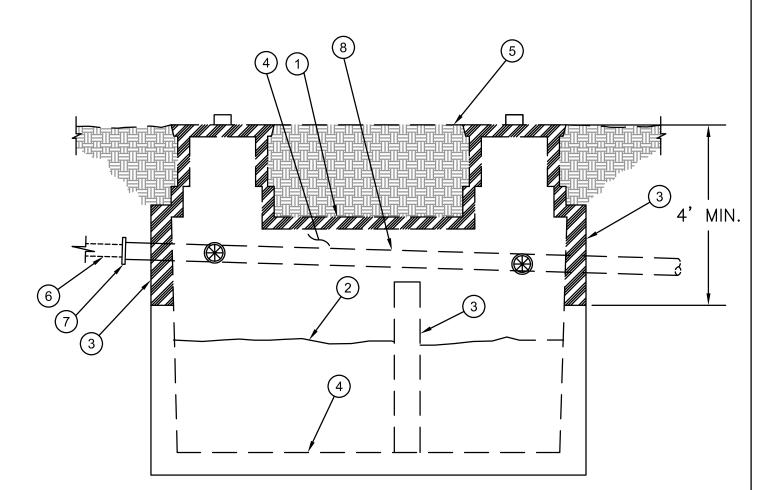






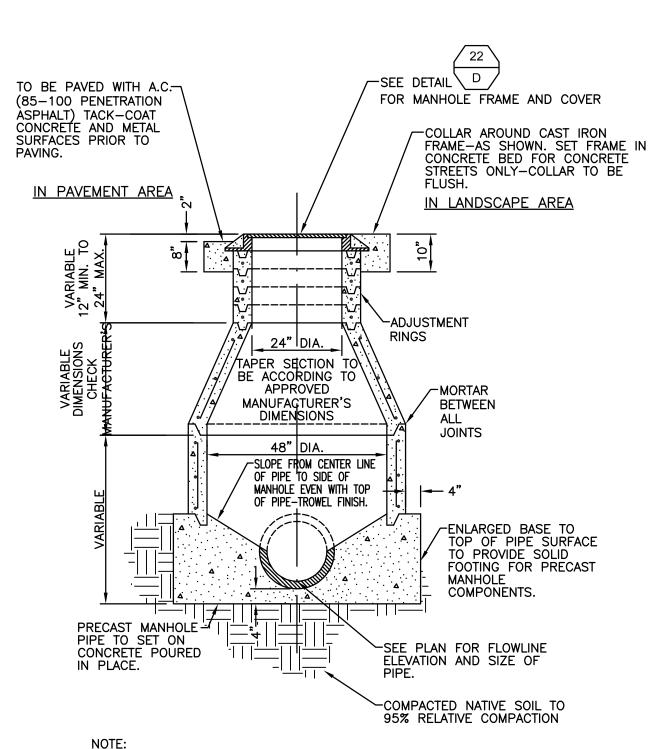
- (1) DEMO TOP OF SEPTIC TANK.
- 2 COMPLETELY REMOVE (PUMP OUT) ALL SEWAGE FROM THE TANK BY A CERTIFIED SEPTAGE PUMPER.
- 3 DEMOLISH COMPARTMENT WALL IF EXISTING AND DEMOLISH THE UPPER 3' OF EXTERIOR TANK WALL.
- 4 CONTRACTOR SHALL REMOVE SURFACE CONTAMINATION IN ACCORDANCE WITH SOCIETY OF PROTECTIVE COATINGS GUIDANCE ON CLEANING WITH SOLVENTS (SSPC-SP-1). RECOMMEND DISINFECTING SURFACES AND COMPONENTS WITH 5% TO 7.5% SODIUM HYPOCHLORITE SOLUTION APPLIED WITH HIGH PRESSURE JET CLEANER. ALL PIPES SHALL BE CUT AND PLUGGED AND ABANDONED IN PLACE. DRILL 6"Ø HOLES INTO THE BOTTOM OF THE STRUCTURE TO PREVENT THE ACCUMULATION OF WATER WITHIN THE VAULT. FILL 2' FROM THE BOTTOM OF THE VAULT WITH PEA GRAVEL. BACKFILL THE REMAINING PORTION OF THE VAULT WITH NATIVE SOIL AND COMPACT TO 90% UNTIL MEETING SUBGRADE GRADING ELEVATION FOR NEW SLAB.
- 5 EXISTING O.G.
- (6) (E) 4" SEWER PIPE (FIELD VERIFY).
- 7) INSTALL 6" INCREASER COUPLING.
- (8) (N) 6" SEWER PIPE PER PLAN.

OPTION: CONTRACTOR CAN OPT TO COMPLETELY REMOVE AND DISPOSE OF SEPTIC TANK TO AN APPROVED FACILITY FOLLOWING ACCEPTABLE METHOD AND BACKFILL VOID SPACE.



PROPOSED SEPTIC TANK DEMOLITION PROCEDURE

SCALE: N.T.S.



NOTE:
PRECAST PIPE, ADJUSTMENT RINGS AND TAPERED SECTIONS SHALL
BE CLASS 2 R.C.P. IN ACCORDANCE WITH ASTM C76-57T. ELLIPTICAL SINGLE LINE REINFORCEMENT WILL NOT BE PERMITTED.



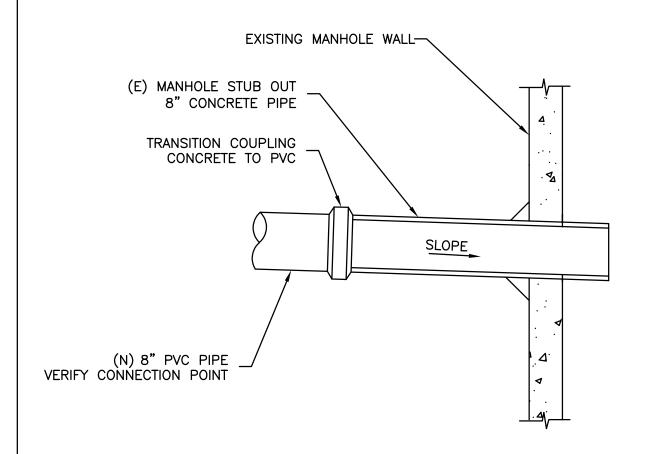
SCALE: N.T.S.

NOT USED

SCALE

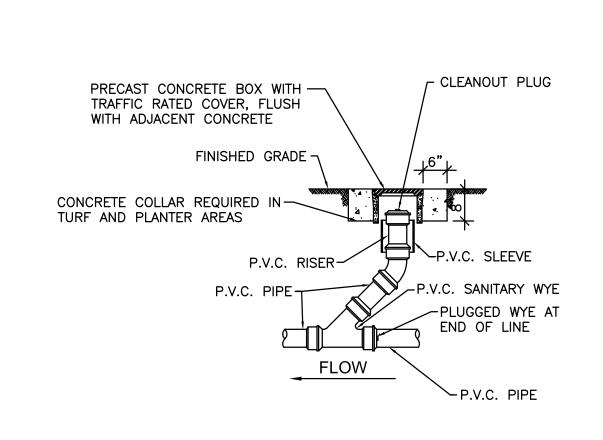
AS NOTED

SCALE: N.T.S.



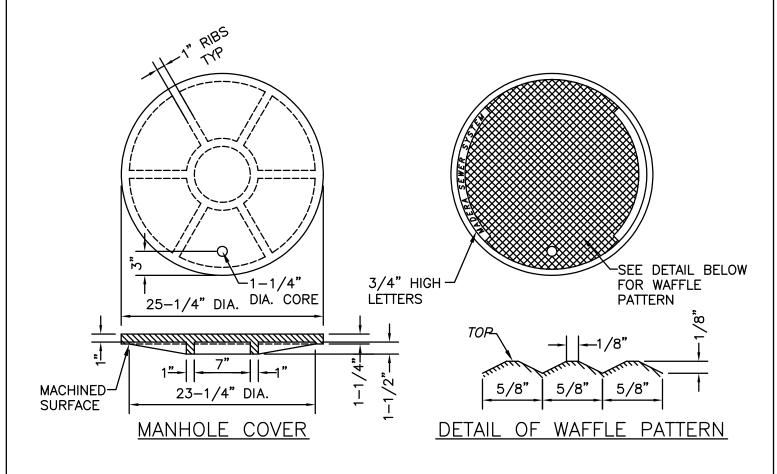
(E) MANHOLE STUB OUT TO PVC PIPE TRANSITION

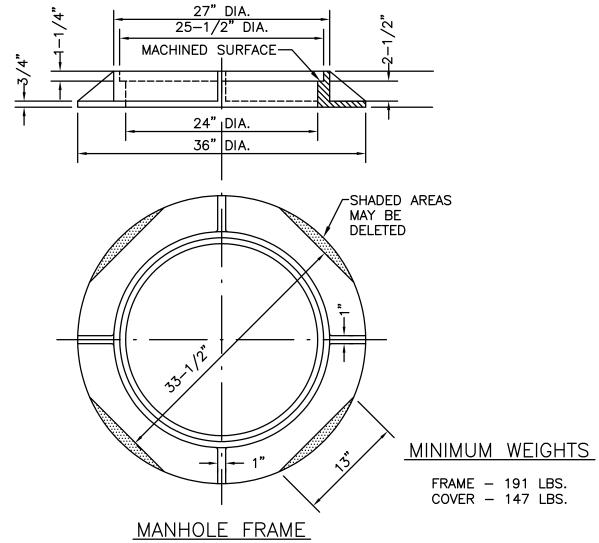
SCALE: 1" = 1'-0"



DETAIL - SURFACE CLEANOUT

SCALE: 1/2" = 1'-0"





DETAIL - SEWER MANHOLE FRAME AND COVER

CONCRETE OR PAVED AREAS | UNPAVED AREAS SEE NOTE 2 -— EXISTING (SEE NOTE 3) GROUND EXISTING — **PAVEMENT** NATIVE BACKFILL MATERIAL (MINIMUM 95% RELATIVE COMPACTION) NATIVE BACKFILL MATERIAL 일본 (MINIMUM 90% RELATIVE COMPACTION) MARKER TAPE IMPORT GRANULAR OR SELECT NATIVE BACKFILL MATERIAL (MINIMUM 9" MAX.≟ 90% RELATÌVE (TYP.) COMPACTION) IMPORT GRANULAR MATERIAL OR SAND (MINIMUM 90% RELATIVE (P) PIPE, SEE COMPACTION) PLAN SHEETS 0.D.+12" (MIN.) OVER-EXCAVATE -0.D.+18" (MAX.) FOR PIPE BELL 6" MINIMUM OVER EXCAVATION IN UNSUITABLE MATERIAL, AS DETERMINED BY THE ENGINEER, AND REPLACE WITH IMPORT MATERIAL

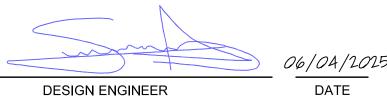
- 1. NO JETTING IS ALLOWED.
- 2. CUT NEAT LINE AT EDGES OF PAVEMENT (TYP.)
- REPAVE WITH AC TO MATCH EXISTING PAVEMENT THICKNESS OR A MINIMUM OF 6", WHICHEVER IS GREATER.
- 4. TEMPORARY RESURFACING SHALL CONSIST OF A MINIMUM OF 4" COLD MIX AND SHALL BE REQUIRED WHENEVER THE STREET IS TEMPORARILY OPENED TO TRAFFIC. ALL TEMPORARY MATERIAL SHALL BE COMPLETELY REMOVED PRIOR TO FINAL PAVING.

SCALE: N.T.S.

DETAIL - PIPE BEDDING AND TRENCH BACKFILL

SCALE: N.T.S.

	DATE	RECORD DRAWING					
DESIGNED: -	-	RESIDENT ENGINEER	DATE				
DRAWN: JD	03/04/24			l			
CHECKED: CZ	-						
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.							



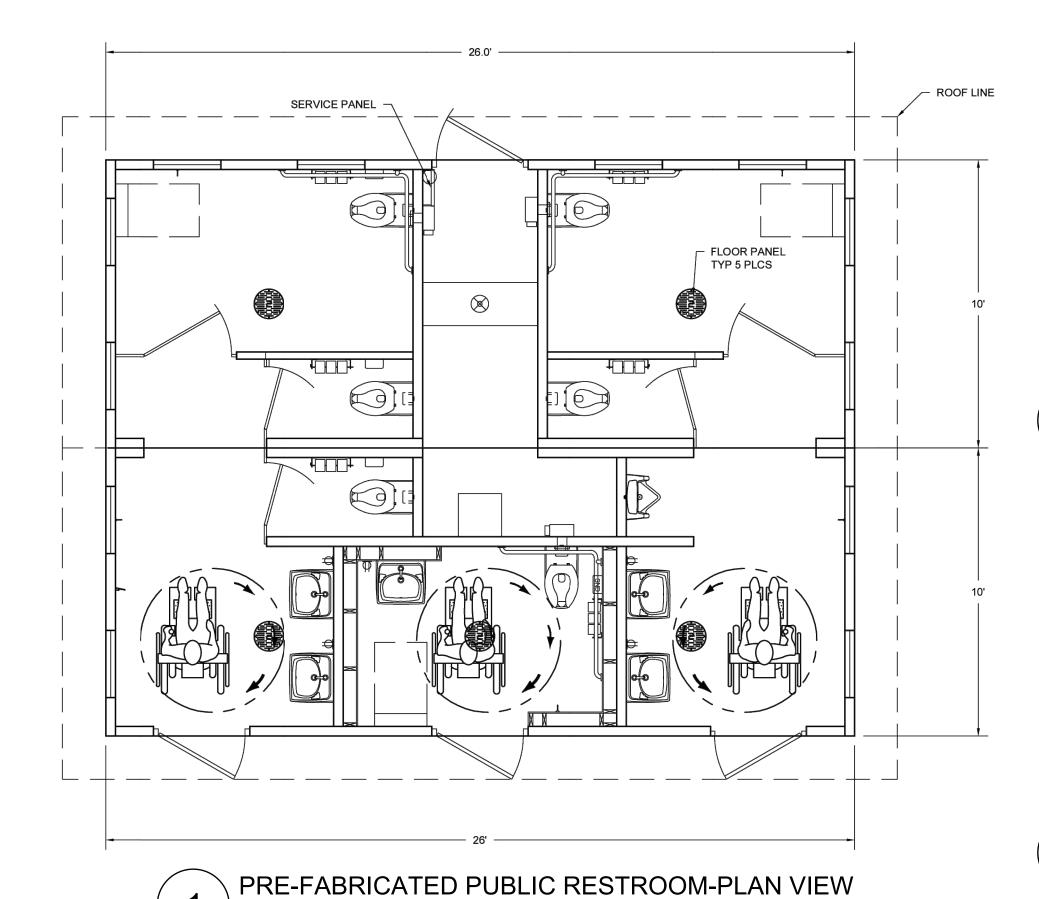


PROJECT	
KEARNEY PARK IMPROVEMENTS	

BRIDGE NO. N/A

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DETAILS TOTAL 42 DRAWING NO. 11338 SHEET NO. 22

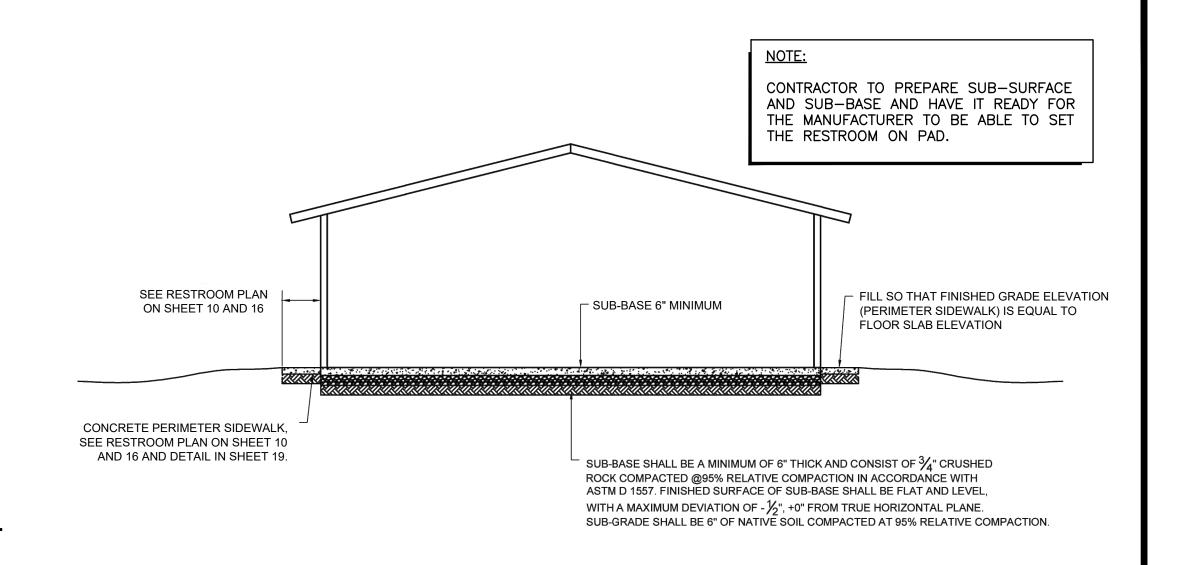


PRE-FABRICATED PUBLIC RESTROOM-FRONT ELEVATION VIEW

12.0' +/
10.0' 10.0' 10.0'

SCALE: N.T.S.

PRE-FABRICATED PUBLIC RESTROOM-SIDE ELEVATION VIEW SCALE: N.T.S.



SECTION - 1
SCALE: N.T.S.

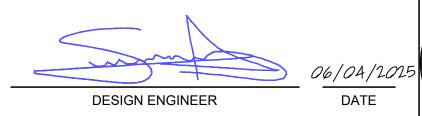
SCALE: N.T.S.

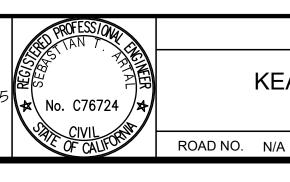
COUNTY FURNISHED RESTROOM. CONTRACTOR TO REFER TO SECTION 13000 OF THE SPECIFICATION FOR RESPONSIBILITY.

THESE DRAWINGS ARE TO BE USED FOR ESTIMATION PURPOSES. FINAL DRAWING WILL BE PROVIDED TO CONTRACTOR ONCE MANUFACTURER FURNISH A SET OF STAMPED PLANS.

THESE DRAWINGS ARE NOT MEANT TO BE USED AS THE DESIGN OF THE RESTROOM. RESTROOM MANUFACTURER WILL PROVIDE A SET OF SIGNED AND STAMPED DRAWINGS DEPICTING STRUCTURAL, PLUMBING ELECTRICAL, ETC. OF THE MANUFACTURED RESTROOM FOR PERMITTTING.

	DATE	RECORD DRAWING	SCALE	
DESIGNED: CZ	08/29/24	RESIDENT ENGINEER	DATE	
DRAWN: JD	08/29/24			AS NOTED
CHECKED: SA	01/15/25			AS NOTED
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS D				





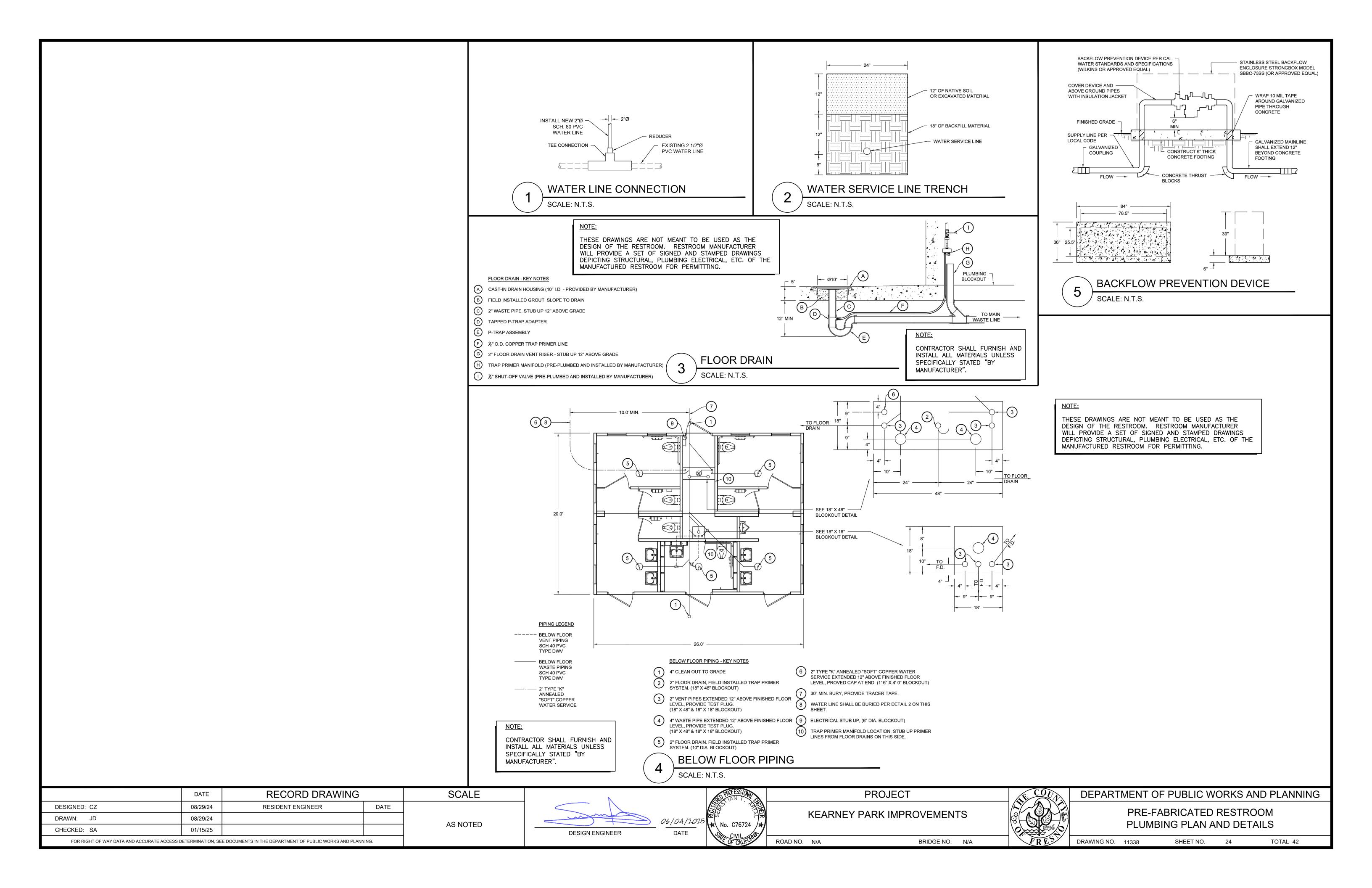
PROJECT	
KEARNEY PARK IMPROVEMENTS	

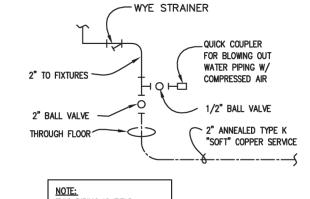
BRIDGE NO. N/A



EPARTMENT OF PUBLIC WORKS AND PLANNING	3
PRE-FABRICATED RESTROOM FLOOR PLAN, ELEVATIONS, AND SECTIONS	

DRAWING NO. 11338 SHEET NO. 23 TOTAL 42

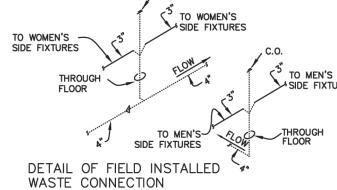




NOTE: This piping is field INSTALLED & NOT BY CXT

WATER SERVICE DETAIL

TO WOMEN'S



1. TOTAL FIXTURE COUNT (INCLUDES FLOOR DRAINS) : (22) 2. FLOWING PRESSURE: 45 PSI MIN, 80 PSI MAX 3. TOTAL DEVELOPED LENGTH = 35'-0"*

*APPROXIMATE DISTANCE FROM THE SOURCE TO THE FARTHEST FIXTURE

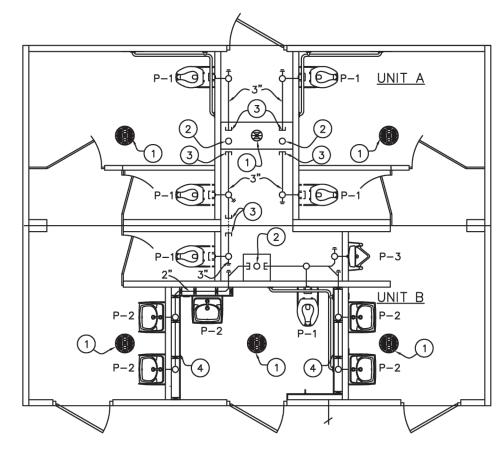
<u>PIPING LEGEND</u> ------ COLD WATER ----- WASTE PIPE: SCH 40 ABS, ASTM D2665, OR PVC, ASTM D2665, TYPE DWV FIELD PIPING SCH 40 ABS OR PVC TYPE DWV

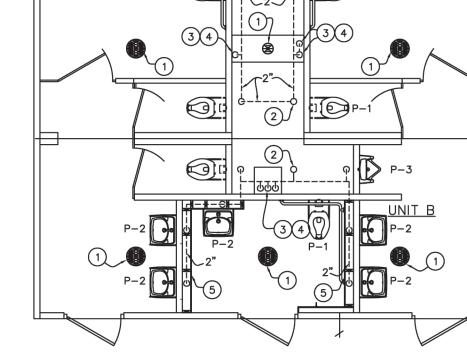
4" WASTE CONN. L4" WASTE CONN. (NOT BY CXT) WASTE & VENT RISER DIAGRAM WASTE & VENT RISER - KEY NOTES (NOT BY CXT) TO THIS POINT BY CXT.

				PLUMBING	FIXTURE SCHEDULE							
SYM	DESCRIPTION	MANUFACTURE	R MODEL #	FLUSH VALVE/FAUCET	TRAP	ACTUATOR	DRAIN	HW	CW	WASTE	VENT	NOTES
P-1	WATER CLOSET	AMERICAN STAND	ARD 2634.101 (W.C.) 5905.100 (W.C. SEAT)	SLOAN "ROYAL" #952-1.28 L-3 W=4"	_	SLOAN HY33A	-	_	1–1/4	3"	2"	1,3
P-2	LAVATORY	AMERICAN STAND	O356.421 (LAV.)	SLS-7000	OFFSET 1.5x17GA.CP		-	_	1/2"	1-1/2"	1-1/2"	2,4
P-3	URINAL	AMERICAN STAND	6515.001 (URINAL)	SLOAN "ROYAL" #995–1	_	SLOAN HY33A	-	_	3/4"	2"	2"	_
SYM	DESCRIPTION	MANUFACTURER	MODEL #	FLUSH VALVE/FAUCET	TRAP	ACTUATOR	DRAIN	HW	CW	WASTE	VENT	NOTES
P-4					-	-	-					_
P-5	EXTERIOR HOSE BIB	WOODFORD	B65, LOCKING COVER						3/4"	_	_	-
P-6								_	_			
P-7				-	-	-	-	-	-	_	-	· · · · · · · · · · · · · · · · · · ·
	ELOOD DDAIN	TRAVIS	RM54960 (RESTROOM & CONCESSION-QTY 5)	_	_	_	-	-	_	2"	2"	
P-8	FLOOR DRAIN	SIOUX CHIEF	840-2A (CHASE-QTY 1)	-	-	_	-	_	-	2"	2"	5
				,								· · · · · · · · · · · · · · · · · · ·

- OFFSET FLUSH VALVE TAILPIECE PER ADA, RIGHT OR LEFT HAND, AS REQUIRED. PROVIDE FLUSH VALVE FOR 4" WALL THICKNESS. HAMMER ARRESTOR JRS520-T-C, FLOOR DRAIN S2005A025NBLP, TRAP PRIMER- MIFAB MM500, DISTR UNIT- MIFAB MOUNT RIM OF P-1 & P-3 AT 17" ABOVE FLOOR.
- 1/2X15 COMP ANG LAV BSCR1915AC.
 TRAP PRIMER— MIFAB MM500, DISTR UNIT— MIFAB

- 1. THESE DRAWINGS ARE NOT MEANT TO BE USED AS THE DESIGN OF THE RESTROOM. RESTROOM MANUFACTURER WILL PROVIDE A SET OF SIGNED AND STAMPED DRAWINGS DEPICTING STRUCTURAL, PLUMBING ELECTRICAL, ETC. OF THE MANUFACTURED RESTROOM FOR PERMITTTING.
- 2. ANY MATERIALS AND LABOR SPECIFIED AS "NOT BY CXT" SHALL BE FURNISHED AND INSTALLED BY THE





WASTE PIPING

WASTE PIPING - KEY NOTES

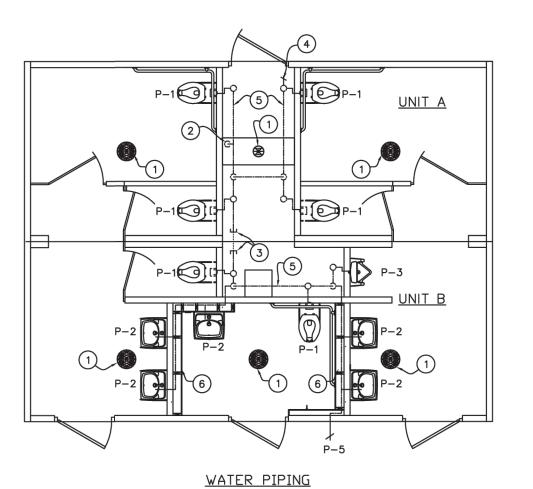
- 1. 2" FLOOR DRAIN P-8, FIELD INSTALLED (NOT BY CXT)
- 2. 4" WASTE THROUGH FLOOR, FIELD INSTALLED (NOT BY CXT)
- 3. PROVIDE TEST PLUG IN END OF WASTE PIPE. CONTINUATION OF PIPING IS FIELD
- 4. ROUTE PLUMBING INSIDE FURRED WALL.

INSTALLED & NOT BY CXT.

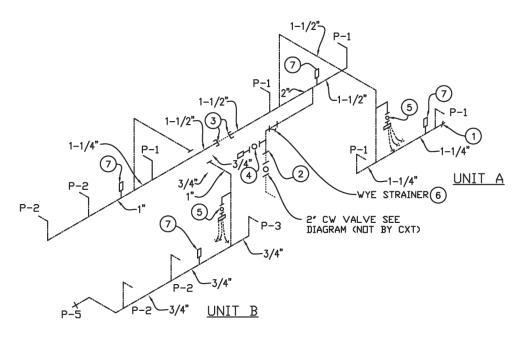
VENT PIPING

VENT PIPING - KEY NOTES

- 1. 2" FLOOR DRAIN P-8, FIELD INSTALLED (NOT BY CXT)
- 4" VENT THROUGH ROOF.
- 2" VENT WITH TEST PLUG.
- 4. FIELD INSTALLED 2" VENT PIPING FROM FLOOR DRAINS. (NOT BY CXT)
- 5. ROUTE PLUMBING INSIDE FURRED WALL.



PIPING LEGEND ---- COLD WATER ----- WASTE PIPE: SCH 40 ABS, ASTM D2661, OR PVC, ASTM D2665, TYPE DWV ---- HOT WATER ---- VENT PIPING SCH 40 ABS OR PVC TYPE DWV ----- FIELD PIPING (NOT BY CXT)



WATER PIPING RISER DIAGRAM #1

WATER PIPING - KEY NOTES

- 2" FLOOR DRAIN, FIELD INSTALLED (P-8) (NOT BY CXT)
- 2. FIELD INSTALLED 2" WATER SUPPLY WITH SHUT-OFF VALVE NEAR FLOOR. (NOT BY CXT)
- 3. CAPPED WATER LINES, CONNECTION
 BETWEEN SIDES IS TO BE FIELD INSTALLED.
 (NOT BY CXT)
- 3/4" HOSE BIBB WITH VACUUM BREAKER AND WHEEL HANDLE. WATER PIPING ALONG WALL, SEE DIAGRAM #1 ON THIS DRAWING.
- ROUTE PLUMBING INSIDE FURRED WALL.

<u>PIPING LEGEND</u>

---- VENT PIPING SCH 40 ABS OR PVC TYPE DWV

ABS, ASTM D2661, DR PVC, ASTM D2665, SCHED. 40

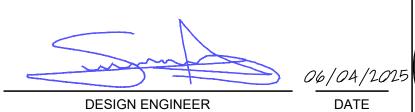
----- FIELD PIPING (NOT BY CXT)

WATER PIPING RISER - KEY NOTES

- 3/4" HDSE BIBB WITH VACUUM BREAKER & WHEEL HANDLE.
- 2. TO THIS POINT BY CXT.
- PLUGGED WATER LINES TO THIS POINT, BY CXT. PIPING BETWEEN THESE POINTS, NOT BY CXT.
- 1/2" AIR QUICK CONNECTION W/ BALL VALVE FOR BLOWING OUT WATER PIPING.
- 5. 1/2" BALL VALVE & CAPPED CW LINE FOR FIELD INSTALLED TRAP FOR BLOWING OUT WATER PIPING. PRIMER VALVE IF REQUIRED BY JURISDICTION HAVING AUTHORITY
- 6. PROVIDE WYE STRAINER
- 7. ASSE 1010 WATER HAMMER ARRESTOR SIOUX CHIEF HYDRA-RESTOR #654-C OR EQUAL.

DEPARTMENT OF PUBLIC WORKS AND PLANNING

	DATE	RECORD DRAWING					
DESIGNED: CZ	08/29/24	RESIDENT ENGINEER	DATE				
DRAWN: JD	08/29/24						
CHECKED: SA	01/15/25						
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.							



SCALE

N.T.S.



DATE

KEARNEY PARK IMPROVEMENTS

PROJECT

ROAD NO. N/A BRIDGE NO. N/A



PRE-FABRICATED RESTROOM PLUMBING PLAN

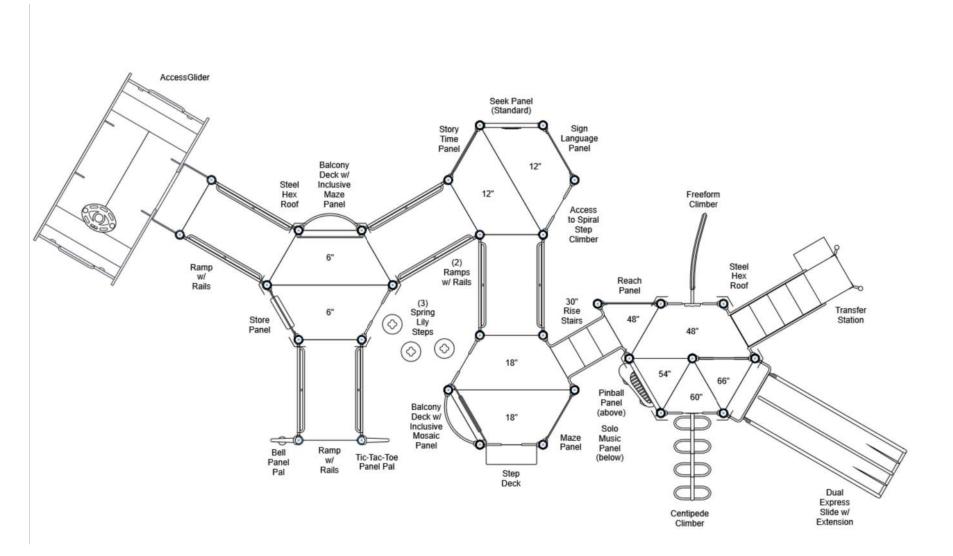
DRAWING NO. 11338 SHEET NO. 25 TOTAL 42



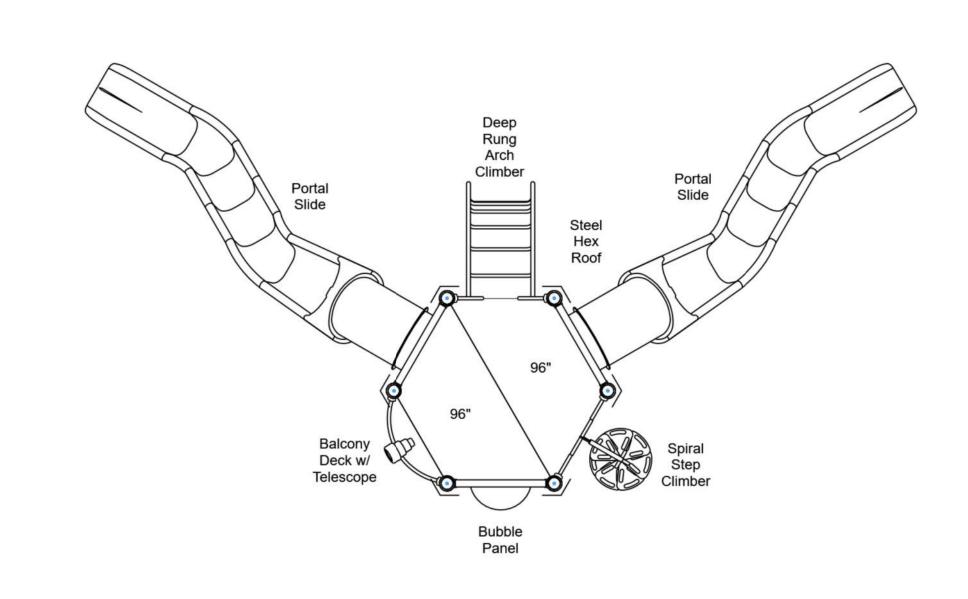
SE ELEVATION - R5044C65A SCALE: N.T.S.



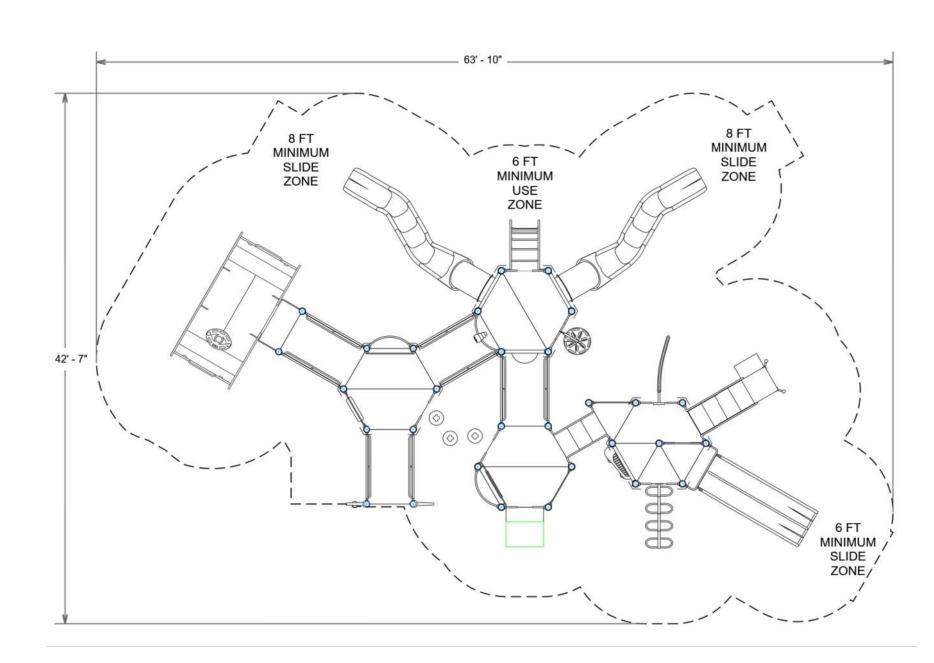
NW ELEVATION - R5044C65A



GROUND LEVEL PLAN - R5044C65A SCALE: N.T.S.



LEVEL 2 PLAN - R5044C65A SCALE: N.T.S.

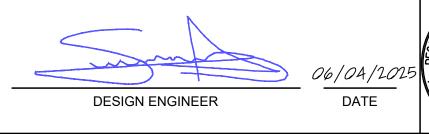


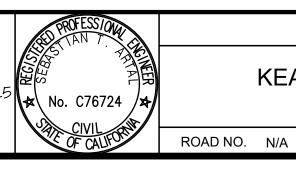
LAYOUT PLAN - R5044C65A SCALE: N.T.S.

- COUNTY WILL FURNISH PLAYGROUND STRUCTURE.
 CONTRACTOR TO REFER TO SECTION 13.01.00 OF THE SPECIFICATION FOR RESPONSIBILITY OF THE CONTRACTOR.
- THESE DRAWINGS ARE MEANT TO BE A GRAPHICAL
- REPRESENTATION OF THE PURCHASED MATERIAL ONLY.

 MANUFACTURER WILL PROVIDE FINAL DRAWINGS, INSTALLATION MANUAL, AND FOUNDATION DESIGN.

	DATE	RECORD DRAWING		SCALE
DESIGNED: CZ	08/29/24	RESIDENT ENGINEER	DATE	
DRAWN: JD	08/29/24			AC NOTED
CHECKED: SA	01/15/25			AS NOTED
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS D	NING.			







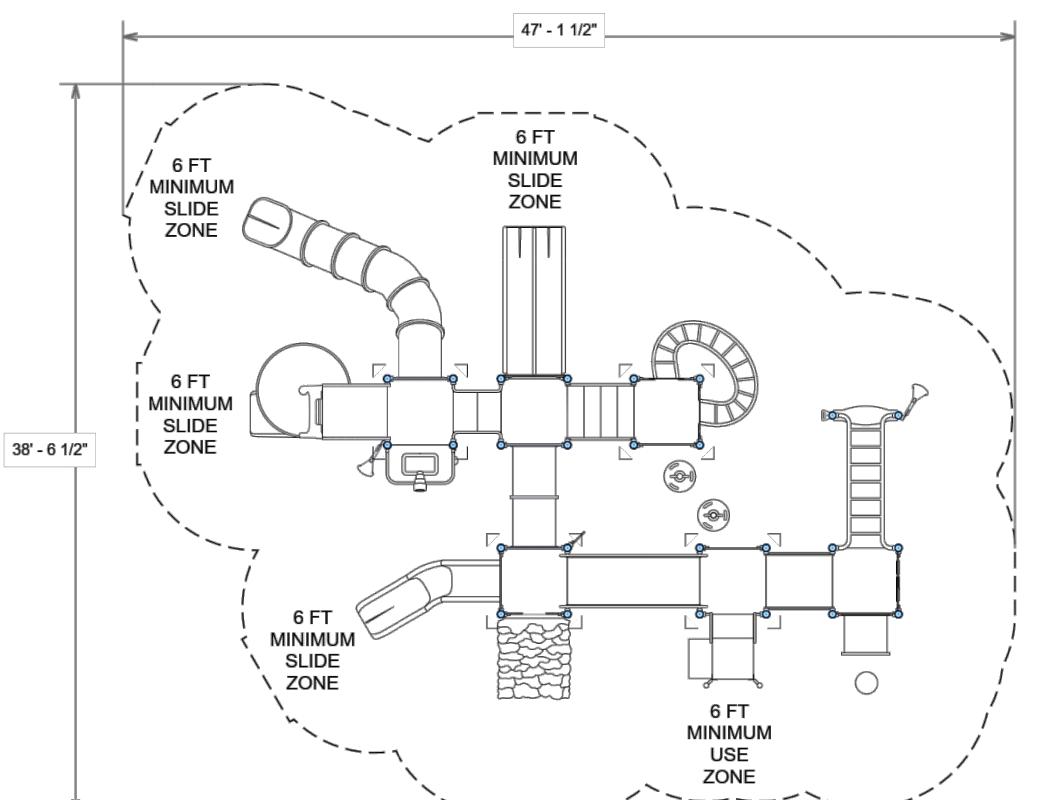


DEPARTMENT OF PUBLIC WORKS AND PLANNING PLAYGROUND 1 - DETAIL PLAY STRUCTURE R5044C65A

TOTAL 42 DRAWING NO. 11338 SHEET NO. 26





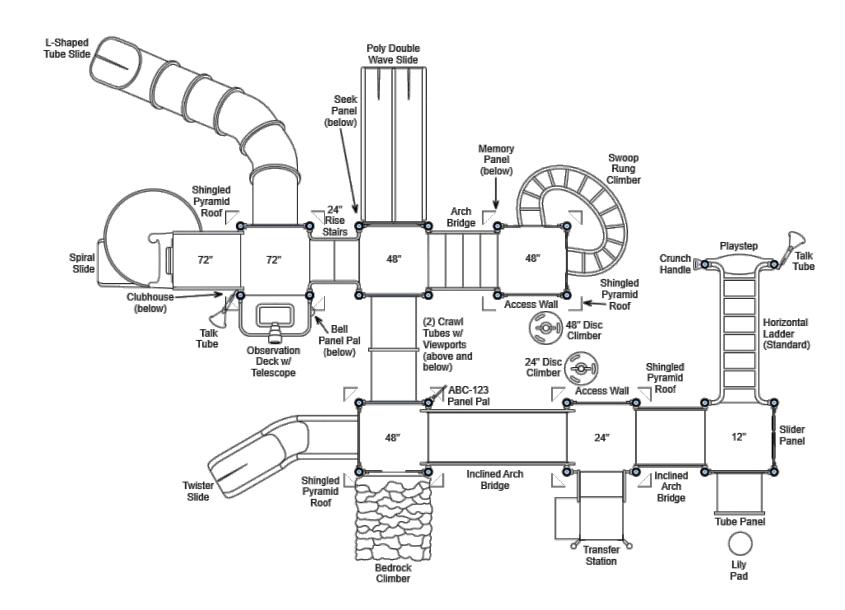


- COUNTY WILL FURNISH PLAYGROUND STRUCTURE.
 CONTRACTOR TO REFER TO SECTION 13.01.00 OF THE SPECIFICATION FOR RESPONSIBILITY OF THE
- CONTRACTOR. THESE DRAWINGS ARE MEANT TO BE A GRAPHICAL REPRESENTATION OF THE PURCHASED MATERIAL ONLY.
- MANUFACTURER WILL PROVIDE FINAL DRAWINGS, INSTALLATION MANUAL, AND FOUNDATION DESIGN.

LAYOUT PLAN - R3550DE6A SCALE: N.T.S.

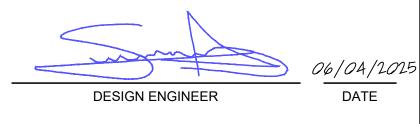


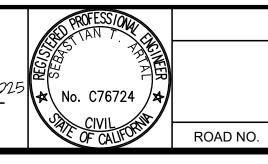
NW ELEVATION - R3550DE6A SCALE: N.T.S.



GROUND LEVEL PLAN - R3550DE6A SCALE: N.T.S.

	DATE	RECORD DRAWING		SCALE
DESIGNED: CZ	08/29/24	RESIDENT ENGINEER	DATE	
DRAWN: JD	08/29/24		DATE	AC NOTED
CHECKED: SA	01/15/25			AS NOTED
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS D	ETERMINATION, SE	E DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANN	IING.	





KEARNEY PARK IMPROVEMENTS	

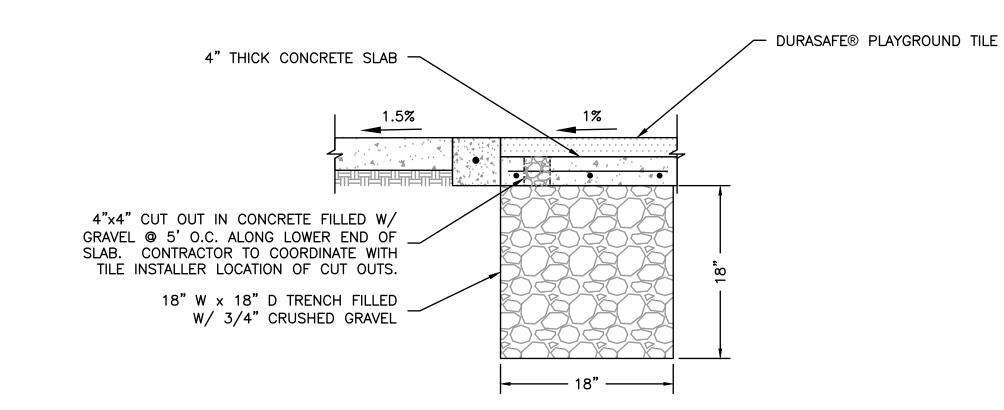
PROJECT

KEARNEY PARI	K IMPROVEMEN I	S	
N/A	BRIDGE NO.	N/A	FRI



DEPARTMENT OF PUBLIC WORKS AND PLANNING PLAYGROUND 2 - DETAIL PLAY STRUCTURE R3550DE6A

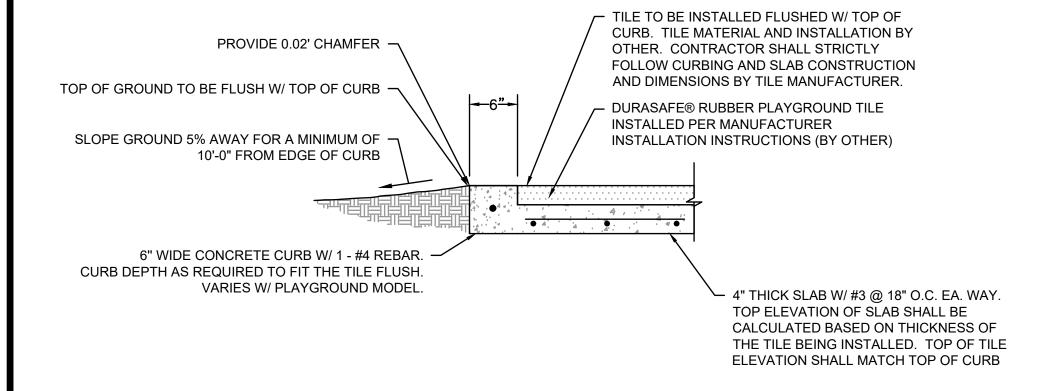
TOTAL 42 SHEET NO. 27 DRAWING NO. 11338



TRENCH DETAIL / WEEP HOLES SCALE: N.T.S.

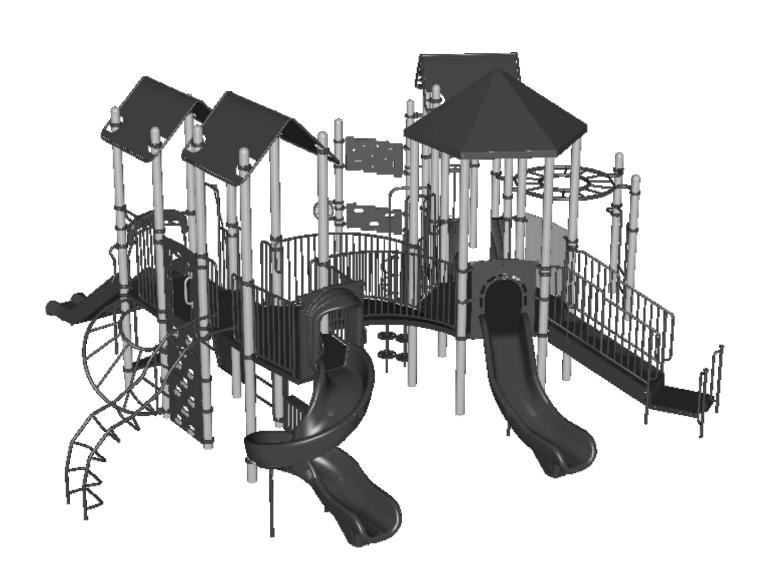
TILE TO BE INSTALLED FLUSHED W/ TOP OF CURB. TILE MATERIAL AND INSTALLATION BY OTHER. CONTRACTOR SHALL STRICTLY FOLLOW CURBING AND SLAB CONSTRUCTION AND DIMENSIONS BY TILE MANUFACTURER. PROVIDE 0.02' CHAMFER - DURASAFE® RUBBER PLAYGROUND TILE EXPANSION JOINT -INSTALLED PER MANUFACTURER INSTALLATION INSTRUCTIONS (BY OTHER) INSTALL CONCRETE WALKWAY PER DETAIL 7 ON -SHEET 19 AND DIMENSIONS SHOWN IN PLANS 6" WIDE CONCRETE CURB W/ 1 - #4 REBAR. CURB DEPTH AS REQUIRED TO FIT THE TILE FLUSH. VARIES W/ PLAYGROUND MODEL 4" THICK CONCRETE SLAB (3,500 PSI) W/ #3 @ 18" O.C. TOP ELEVATION OF SLAB SHALL BE CALCULATED BASED ON THICKNESS OF THE TILE BEING INSTALLED. SLAB TO BE PLACED O/ 90% COMPACTED NATIVE SOIL





PLAYGROUND SECTION - BY LANDSCAPE AREAS

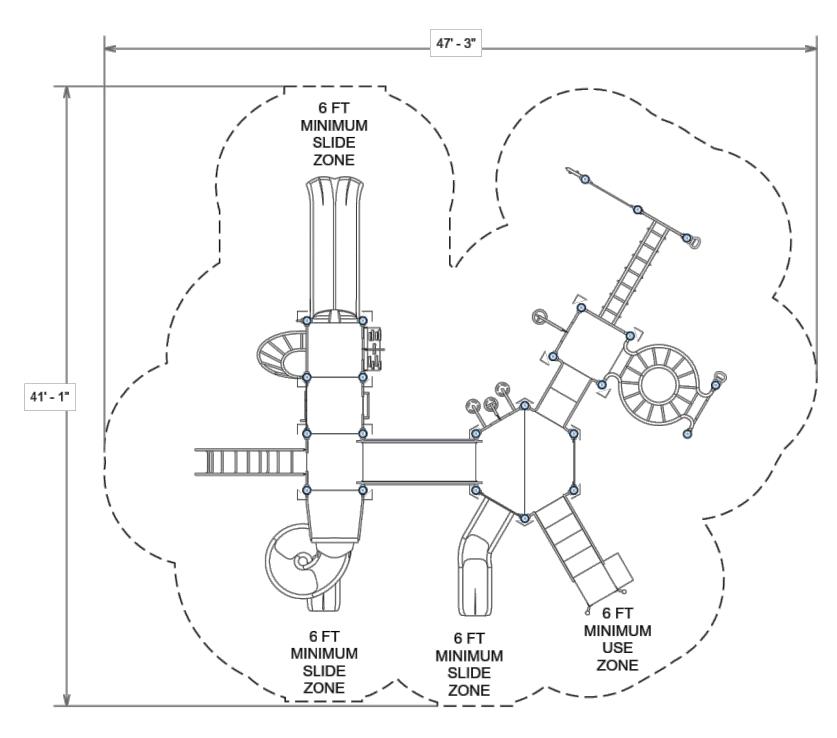
SCALE: N.T.S.



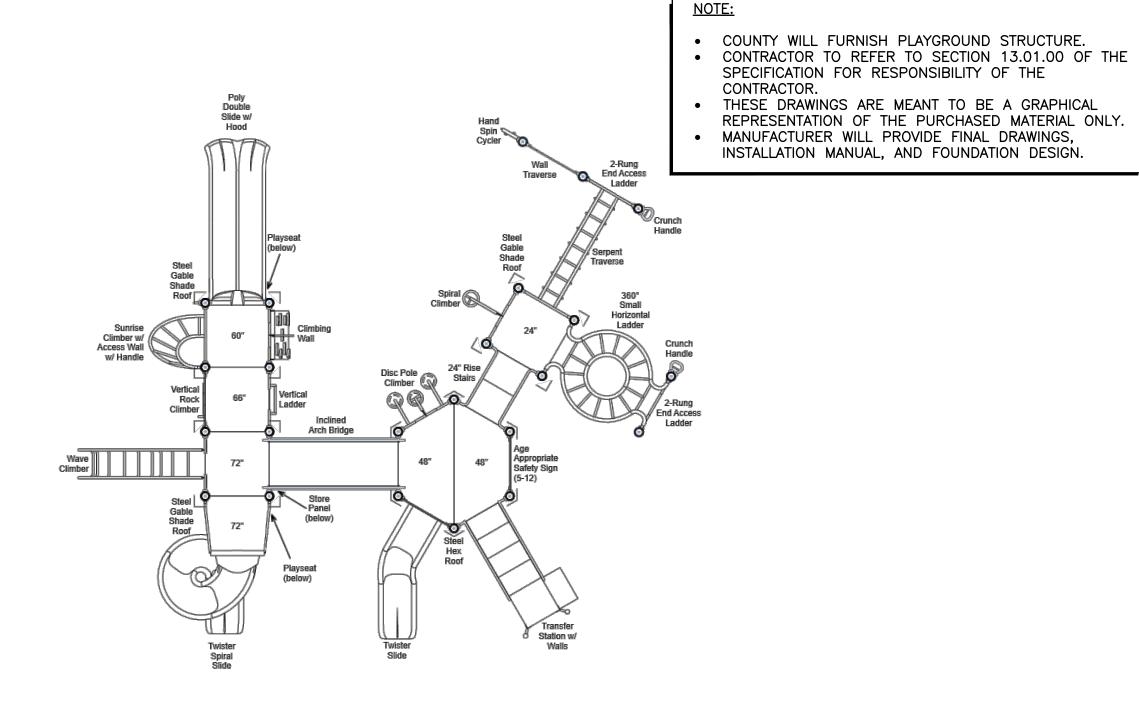
SE ELEVATION - R50DDF20A SCALE: N.T.S.



NW ELEVATION - R50DDF20A SCALE: N.T.S.



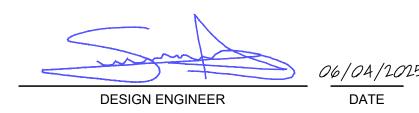
LAYOUT PLAN - R50DDF20A SCALE: N.T.S.

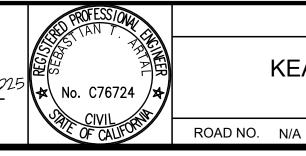


GROUND LEVEL PLAN - R50DDF20A SCALE: N.T.S.

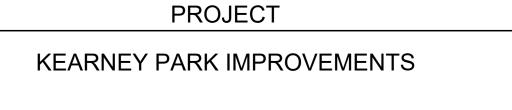
BRIDGE NO. N/A

	DATE	RECORD DRAWING		SCALE
DESIGNED: CZ	08/29/24	RESIDENT ENGINEER	DATE	
DRAWN: JD	08/29/24		DATE AS NOTE	AC NOTED
CHECKED: SA	01/15/25			AS NOTED
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS D				





DATE





DEPARTMENT OF PUBLIC WORKS AND PLANNING PLAYGROUND 3 - DETAIL PLAY STRUCTURE R50DDF20A

DRAWING NO. 11338 SHEET NO. 28 TOTAL 42

120V BRANCH CIRCUIT VOLT DROP **CONDUCTOR LENGTH CHART**

LOAD IN		LENGTH	H OF CONE	DUCTOR						
VOLT		WIRE SIZE IN (GAUGE)								
AMPERES	#12	#10	#8	#6	#4					
1200VA	74	121	183	284	434					
1560VA	57	93	141	218	334					
1800VA	49	81	122	189	289					
1920VA	46	76	115	178	271					
2340VA	Х	62	94	146	223					
2880VA	Х	51	76	118	181					
3000VA	Х	48	73	114	174					
3900VA	Х	Х	56	87	134					
4800VA	Х	Х	46	71	108					

THIS CHART IS FOR COPPER CONDUCTORS ONLY.

VOLTAGE DROP ON A BRANCH CIRCUIT AT GIVEN VA LOAD.

- THIS CHART ASSUME AN 80% POWER FACTOR AND STEEL RACEWAYS. 2019 CALIFORNIA ENERGY CODE, 130.5(c) ALLOWS A MAXIMUM COMBINED VOLTAGE DROP OF 5%. THIS CHART ASSUMES A MAXIMUM LENGTH OF CONDUCTORS FOR LESS THAN 2%
- USE WIRE SIZE FROM THIS CHART UNLESS LARGER CONDUCTOR SIZES ARE NOTED ON THE
- FOR VA VALUES NOT SHOWN USE NEXT HIGHEST VALUE FROM VALUE FROM THE CHART.

CALIFORNIA CODE OF REGULATIONS

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2021 INTERNATIONAL BUILDING
- CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA EXISTING BUILDING ĆODE (CEBC), PART 10, TITLE 24 CCR (2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- 2019 ASME A17.1/CSA B44-2019 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION.

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)

- NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED) 2019 EDITION
- NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS 2021 EDITION NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS - 2021 EDITION NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION- 2019 EDITION
- NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED) - 2019 EDITION NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) - 2022
- NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2019
- NFPA 2001 STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED) 2018 EDITION
- UL 300 STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR
- PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2005 (R2010) UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS,
- INCLUDING ACCESSORIES 2003 EDITION
- UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
- ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS 2017 EDITION
- FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

STANDARD SYMBOL LEGEND

FIXTURE DESIGNATOR - '#' INDICATES FIXTURE TYPE.

- LIGHT FIXTURE APPROXIMATELY TO SCALE
- FIXTURE WITH EMERGENCY BATTERY BACK-UP UNIT SEE TYPICAL WIRING
- QO3 LIGHT FIXTURE WALL OR CEILING MOUNTED. '3' INDICATES CIRCUIT, 'a' INDICATES SWITCH CONTROL.
- POST TOP MOUNTED LIGHT FIXTURE WITH RECEPTACLE
- LOW LEVEL EXIT MARKER, SELF ILLUMINATING TYPE, ACTIVE SAFETY
- LOW LEVEL EXIT MARKER, SELF ILLUMINATING TYPE WITH KICKPLATE, ACTIVE SAFETY #2002-K18000 SERIES.
- WATTSTOPPER LMRC-101 ON/OFF, 1 SWITCH LEG LIGHTING CONTROLLER
- WATTSTOPPER LMRC-102 ON/OFF, 2 SWITCH LEG LIGHTING CONTROLLER WATTSTOPPER LMRC-211 DIMMING, 1 SWITCH LEG LIGHTING CONTROLLER
- WATTSTOPPER LMRC-212 DIMMING, 2 SWITCH LEG LIGHTING CONTROLLER WATTSTOPPER LMRC-213 DIMMING, 3 SWITCH LEG LIGHTING CONTROLLER
- WATTSTOPPER LMDC-100 DUAL TECHNOLOGY MOTION SENSOR WATTSTOPPER LMDX-100 DUAL TECHNOLOGY OCCUPANCY SENSOR
- WATTSTOPPER LMSW-101 SWITCH, 'a' INDICATES SWITCH LEG CONTROL. 2 LETTERS NEXT TO EACHOTHER WITHOUT A COMMA INDICATES 1 SWITCH LEG
- WATTSTOPPER LMDM-101 DIMMER, 'a' INDICATES SWITCH LEG CONTROL. 2 LETTERS NEXT TO EACHOTHER WITHOUT A COMMA INDICATES 1 SWITCH LEG
- WATTSTOPPER LMLS-400 PHOTOSENSOR
- WATTSTOPPER LMPL-201 RECEPTACLE CONTROLLER
- PANEL IDENTIFICATION
- CIRCUIT IDENTIFICATION SWITCH-LEG IDENTIFICATION

LIGHTING AND RECEPTACLE ROOM CONTROLLERS SHALL BE LOCATED ABOVE THE T-BAR CEILING FOR THE ROOMS THEY ARE CONTROLLING. IF THE ROOM WITH THE CONTROLLED DEVICES HAS A HARD CEILING THEN LOCATE THE ROOM CONTROLLERS AT THE NEAREST ADJACENT ROOM WITH A T-BAR CEILING. IF NO T-BAR CEILINGS EXISTS LOCATE THE ROOM CONTROLLERS IN THE ELECTRICAL ROOM. LABEL ALL ROOM LIGHTING AND RECEPTACLE CONTROLLERS WITH THE ROOM NAME, ROOM NUMBER, AND CIRCUIT(S) THEY CONTROL.

//// SKYLIT OR PRIMARY SIDE DAYLIT ZONE

SECONDARY SIDE DAYLIT ZONE

- \$a SPST TOGGLE WALL SWITCH 20A, 120/277V, `a' INDICATES CONTROL
- **\$**OC OCCUPANCY SENSOR COMBO WALL SWITCH 20A, 120/277V RATED
- DPST TOGGLE WALL SWITCH 20A, 120/277V
- 3-WAY TOGGLE WALL SWITCH 20A, 120/277V
- 4-WAY TOGGLE WALL SWITCH 20A, 120/277V
- SPDT MOMENTARY CONTACT TOGGLE SWITCH 20A, 120/277V
- SPST KEYED SWITCH 20A, 120/277V
- THERMAL RATED SNAP SWITCH FOR CONTROLLING FRACTIONAL HORSEPOWER MOTORS.
- O Q CEILING OR WALL MOUNTED JUNCTION BOX
- PULLBOX(S) SIZE AND NUMBER AS INDICATED SINGLE RECEPTACLE - 20A, 120V & GROUND
- RECEPTACLE, DUPLEX 20A, 120V & GROUND
- **P**IG RECEPTACLE, DUPLEX 20A, 120V & ISOLATED GROUND
- RECEPTACLE, DUPLEX CEILING MOUNTED
- RECEPTACLE, DUPLEX WITH ONE-HALF SWITCHED/CONTROLLED
- RECEPTACLE, DUPLEX- WITH GFCI PROTECTION
- WP RECEPTACLE, DUPLEX WITH GFCI PROTECTION IN WEATHERPROOF
- RECEPTACLE, 50A, 3-WIRE, 250V

SCALE

INDICATED ON PLANS

- RECEPTACLE, DOUBLE DUPLEX (2) 20A, 120V & GROUND
- RECEPTACLE, DOUBLE DUPLEX CEILING MOUNTED
- RECEPTACLE, DOUBLE DUPLEX WITH GFCI PROTECTION

FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.

- RECEPTACLE, DOUBLE DUPLEX WITH ONE-HALF SWITCHED/CONTROLLED RECEPTACLE, DOUBLE DUPLEX - WITH ONE-HALF SWITCHED/CONTROLLED,
- RECEPTACLE, SPECIAL REFER TO FLOOR PLAN FOR RECEPTACLE SIZE.
- TELEPHONE OUTLET: PROVIDE & INSTALL 2-GANG BOX WITH 1" CONDUIT. STUB-UP INTO T-BAR CEILING. FOR HARD CEILINGS, RUN THE CONDUIT TO THE CABLE TERMINATION LOCATION INDICATED PER THE RISER DIAGRAM.
- data outlet: Provide & Install 2-gang box with 1" conduit. Stub-up INTO T-BAR CEILING. FOR HARD CEILINGS, RUN THE CONDUIT TO THE CABLE TERMINATION LOCATION INDICATED PER THE RISER DIAGRAM.
- INTERCOM OUTLET: PROVIDE & INSTALL 2-GANG BOX WITH 1" CONDUIT. STUB-UP INTO T-BAR CEILING. FOR HARD CEILINGS, RUN THE CONDUIT TO THE CABLE TERMINATION LOCATION INDICATED PER THE RISER DIAGRAM.
- CEILING OR WALL MOUNTED WIRELESS ACCESS POINT PROVISIONS. PROVIDE AND INSTALL TWO DATA CABLES FROM EACH ACCESS POINT TO IDF. FOR HARD CEILINGS TERMINATE THE CABLES INTO A BOX WITH COVER PLATE. FOR T-BAR CEILINGS TERMINATE THE CABLES INTO A CUBE CAT-6 PORT AND CURL UP THE CABLE WITH 10-FEET OF SLACK. LEAVE ABOVE THE T-BAR CEILING. PROVIDE A LABEL BENEATH THE T-BAR CEILING TO INDICATE DATA PORTS ABOVE.

3/4" THICK x 96" TALL FIRE RETARDANT PLYWOOD BACKBOARD. PROVIDE QUANTITY OF PLYWOOD SHEETS TO ENCOMPASS ENTIRE LENGTH

, AMP

CATV

F.B.O.

FUSD

HCAI

I.B.O.

LFMC

MDF

MTD

MTG

MLO

O.C./OC

OFOI

REF.

RELO

UGPS

U.O.N.

\X/*M*

LTGNC

INDICATED ON PLANS

- TERMINAL CABINET SURFACE OR FLUSH MOUNTED WITH FLAME
- RETARDANT PLYWOOD BACKBOARD PANELBOARD - SURFACE OR FLUSH MOUNTED
- DISTRIBUTION OR SWITCHBOARD
- NEUTRAL LINK
- TRANSFORMER T TRANSFORMER
- FUSED DISCONNECT MOTOR RATED. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. DISCONNECTS TO BE FURNISHED WITH DUAL ELEMENT FUSES SIZED ACCORDING TO NAME PLATE DATA ON EQUIPMENT #A/#B/#C INSTALLED. SIZE AS: #A = AMPERE RATING OF DISCONNECT, #B = POLES, #C = FUSE SIZE REQUIRED. ALSO REFER TO MECHANICAL EQUIPMENT SCHEDULE
- FOR DISCONNECT REQUIREMENTS. IF NO AMPERE RATING IS INDICATED ON PLAN SIZE DISCONNECT PER NAMEPLATE RATING AND CEC. UNFUSED DISCONNECT - MOTOR RATED, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR: #1 = AMPERE RATING OF DISCONNECT, #2 = #A/#B POLES REQUIRED. ALSO REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR
- DISCONNECT REQUIREMENTS. IF NO AMPERE RATING IS INDICATED ON PLAN SIZE DISCONNECT PER NAMEPLATE RATING AND CEC. VARIABLE FREQUENCY DRIVE: FURNISHED, INSTALLED, AND CONNECTED BY

ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.

MAGNETIC MOTOR STARTER FURNISHED, INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.

MOTOR - FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AND

CABLE TO THE IDF. RUN 1/2" CONDUIT TO THE NEAREST 120V ELECTRICAL

- CONNECTED BY ELECTRICAL CONTRACTOR. ■ GROUND ROD - 3/4" DIAMETER x 10-FEET LONG COPPER CLAD
- SURGE SUPPRESSION DEVICE PROVIDE AND INSTALL JUNCTION BOX AND SURVEILLANCE CAMERA; REFER TO SPECIFICATIONS AND ELECTRICAL DETAILS. RUN 1" CONDUIT AND CAT-6A
- PANEL. MAKE ALL CONNECTIONS FOR A FULLY FUNCTIONAL SYSTEM. INTRUSION ALARM DOOR CONTACT PROVISION, SEE TYPICAL DETAILS.
- INTRUSION ALARM KEYPAD
- INTRUSION ALARM MOTION DETECTOR, AIM AS INDICATED ON PLANS. CIRCUIT INTERCONNECTION
- **₹** GROUND
- CIRCUIT BREAKER, SIZE AS INDICATED.
- – EXISTING ABOVE GROUND CONDUIT ——— EXISTING UNDERGROUND CONDUIT
- WIREMOLD 5400 SERIES DUAL CHANNEL IVORY RACEWAY. PROVIDE ALL ---- ACCESSORIES, FITTINGS, DIVIDERS, ETC FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- WIREMOLD RACEWAY VERTICAL RUNS. PROVIDE ALL ELBOWS, FITTINGS, AND CONNECTORS AS NECESSARY FOR A COMPLETE RACEWAY SYSTEM.
- Ψ NEW ELECTRICAL EQUIPMENT
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN
- EXISTING ELECTRICAL EQUIPMENT TO BE DEMOLISHED
- GROUND WIRE WITH GREEN INSULATION SIZE PER N.E.C., U.O.N. CONDUIT CONCEALED IN WALL OR CEILINGS. PROVIDE NUMBER OF WIRES NECESSARY FOR BRANCH CIRCUIT, SWITCH LEGS, ETC. PROVIDE SEPARATE NEUTRALS FOR EACH PHASE WIRE. SIZE SHALL BE DETERMINED BY OCPD
- CONNECTED TO THE PHASE CONDUCTORS AND VOLTAGE DROP CONSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND CONDUCTOR(S). SIZE CONDUIT PER NEC. CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR, MINIMUM SIZE IS 3/4". PROVIDE NUMBER OF WIRES NECESSARY FOR BRANCH CIRCUIT, SWITCH
- LEGS, ETC. PROVIDE SEPARATE NEUTRALS FOR EACH PHASE WIRE. SIZE SHALL BE DETERMINED BY OCPD CONNECTED TO THE PHASE CONDUCTORS AND VOLTAGE DROP CONSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND CONDUCTOR(S). SIZE CONDUIT PER NEC.
- CONDUIT- UP
 - CONDUIT-DOWN
- # SHEET NOTE NUMBER #, SEE NOTE DESCRIPTION ON SAME SHEET. GENERAL NOTE NUMBER - #, SEE NOTE DESCRIPTION ON SAME SHEET.
- REFERENCE TO PLAN/DETAIL/DIAGRAM XX X DESIGNATES SIZE AND QUANTITY OF FEEDERS SEE FEEDER SCHEDULE
- ADDENDUM OR REVISION NUMBER, SEE DESCRIPTION ON SAME SHEET.
- DOORBELL PUSHBUTTON HO DOORBELL CHIME
- HT DOORBELL TRANSFORMER
- NUMBER IN PARENTHESIS INDICATES QUANTITY OF DEVICES. TYPICAL FOR NUMBER IN PARENTHE: ALL TYPES OF DEVICES.

ABBREVIATIONS PROJECT SHEET LIST SYMBOL LIST, ABBREVIATIONS, & NOTES **ABOVE COUNTER** ABOVE FINISHED FLOOR **ADDITIONAL NOTES & REQUIREMENTS** ALUMINUM CONDUCTOR OR BUS PARTIAL SINGLE LINE DIAGRAM & PANEL BOARD CONDUIT SCHEDULES CABINET CABLE TELEVISION LIGHTING FIXTURE SCHEDULE CIRCUIT BREAKER **CENTER TO CENTER** E2.01 ELECTRICAL SITE PLAN CONDUIT ONLY (EMPTY CONDUIT) WITH PULL WIRE PARTIAL ELECTRICAL SITE PLANS COMMUNICATIONS PULL BOX **COPPER CONDUCTOR OR BUS** E2.03 PARTIAL ELECTRICAL SITE PLAN DISTRIBUTION PANEL EXISTING PHOTO REFERENCES E2.04 **EMERGENCY ELECTRIC METALLIC TUBING** TYPICAL ELECTRICAL DETAILS E3.01 **END-OF-LINE EMERGENCY POWER-OFF** E3.02 TYPICAL ELECTRICAL DETAILS ELECTRIC WATER COOLER E4.01 POWER TITLE 24 FIRE ALARM FIRE ALARM CONTROL PANEL E4.02 **OUTDOOR LIGHTING TITLE 24** FURNISHED BY OTHER/FURNISHED BY OWNER **FULL LOAD AMPS** E4.03 **OUTDOOR LIGHTING TITLE 24** FLEXIBLE METALLIC CONDUIT FLOW SWITCH **OUTDOOR LIGHTING TITLE 24** FRESNO UNIFIED SCHOOL DISTRICT **GREEN GROUND WIRE**

THESE PLANS ARE ACCOMPANIED WITH TECHNICAL BOOK SPECIFICATIONS THAT FORM PART OF THE CONTRACT DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION **DOCUMENTS**

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RESIDENT ENGINEER

DATE

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

RECORD DRAWING

DATE

DESIGN ENGINEER

DATE

PROJECT

ARPA - KEARNEY PARK IMPROVEMENTS ROAD NO. N/A BRIDGE NO.



GROUND FAULT CIRCUIT INTERRUPT

INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR

INTERMEDIATE DISTRIBUTION FRAME (DATA)

INFORMATION SERVICES DEPARTMENT

INTELLIGENT TRANSPORTATION SYSTEM

LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT

OWNER FURNISHED OWNER INSTALLED

RELOCATABLE BUILDING/ PORTABLE BUILDING

SIGNAL AND COMMUNICATION TERMINAL BACKBOARD

SIGNAL CURRENT EXPANDER PANEL

SURGE SUPPRESSION DEVICE

SIGNAL TERMINAL BOARD

TELEPHONE PULL BOX

TAMPER SWITCH

UNDER COUNTER UNDERGROUND

VOLTS/VOLTAGE

WEATHERPROOF

WIREMOLD

TELEPHONE

TERMINAL

TYPICAL

SIGNAL TERMINAL CABINET

TELEPHONE TERMINAL BOARD

UNDERGROUND PULL SECTION

UNLESS OTHERWISE NOTED

TELEPHONE TERMINAL CABINET

GALVANIZED RIGID STEEL

HIGH PRESSURE SODIUM

INSTALLED BY OTHER

ISOLATED GROUND

KILOVOLTS-AMPERES

LIGHTING CONTROL PANEL

MOTOR CONTROL CENTER

MAIN DISTRIBUTION FRAME

LIGHTING NETWORK CONTROLLER

INTRUSION ALARM

JUNCTION BOX

KILOVOLTS

KILOWATT

LIGHTING

MOUNTED

MOUNTING

NEUTRAL

NEW

PHASE

POLE

PANEL

PULL BOX

RECEPTACLE

RAPID START

RACK UNIT

SWITCH

REFRIGERATOR

SECURITY LIGHT

SIGNAL PULL BOX

MAIN LUG ONLY

NOT IN CONTRACT

POWER PULL BOX

PUBLIC ADDRESS SYSTEM

NOT TO SCALE

ON CENTER

LOW VOLTAGE

GROUND

HORSEPOWER

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SYMBOLS LIST, ABBREVIATIONS & NOTES

DRAWING NO. 11338 SHEET NO. TOTAL TBD E1.01

TRENCHING AND EXCAVATION NOTES

- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CALL UNDERGROUND SERVICE ALERT "USA" BEFORE THE COMMENCEMENT OF ANY EXCAVATION. EACH CONTRACTOR SHALL HAVE THEIR OWN USA TICKET NUMBER FOR EACH PROJECT LOCATION AND SHALL NOT RIDE ON ANY OTHER CONTRACTORS TICKET. CONTRACTOR SHALL NOTIFY THE OWNER 72 HOURS PRIOR TO EXCAVATION.
- THIS CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF EQUIPMENT AND MATERIALS. ALL PATCHING SHALL ACCURATELY MATCH
- THIS CONTRACTOR SHALL DO EXCAVATING REQUIRED FOR THE INSTALLATION OF THE WORK. UNDERGROUND LINES OUTSIDE THE BUILDINGS SHALL BE INSTALLED WITH A MINIMUM OF 24" OF COVER, EXCEPT DEPTH OF UTILITY SERVICES SHALL COMPLY WITH RESPECTIVE UTILITY COMPANY REQUIREMENTS.
- BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE.
- STRUCTURES, BUILDING SLABS, WALKWAYS, AND STEPS: COMPACT TOP 6" OF SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95% MAXIMUM RELATIVE COMPACTION.
- COMPACT TOP 6" OF SUBGRADE MATERIAL AT 95% RELATIVE COMPACTION. COMPACT TOP 6" OF SUBGRADE IMMEDIATELY BENEATH THE BASE COURSE AT 95%
- MINIMUM RELATIVE COMPACTION. ANY SURPLUS EXCAVATION RESULTING FROM THESE EXCAVATIONS SHALL BE HAULED OFF AFTER ALL TRENCHES HAVE BEEN TAMPED IN, RAKE OUT ALL HIGH AND LOW AREAS ALONG THE TRENCH LINE. ALL CLODS AND SOLID ROCKS EXPOSED ON THE SURFACE AS A RESULT OF THE EXCAVATION SHALL BE BROKEN DOWN AND OR CLEANED UP. ALL TRENCH LINES
- SHALL BE RAKED LEVEL WITH EXISTING GRADE ELECTRICAL CONDUIT SHALL NOT BE RUN IN EXCAVATIONS PROVIDED FOR PLUMBING OR HEATING PIPES, UNLESS SEPARATED BY A MINIMUM OF 12 INCHES.
- PATCH ALL TRENCHED AREAS TO MATCH EXISTING. HAND EXCAVATE IN AREAS WHERE TRENCHING IS DIFFICULT DUE TO STRUCTURAL
- OBSTRUCTIONS OR EXISTING UNDERGROUND CONDUIT. THE CONTRACTOR SHALL WALK THE SITE WITH THE OWNER TO IDENTIFY ALL EXISTING
- CONDUITS AND PIPES. CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A SOILS LAB TO TEST FOR THE
- COMPACTION OF THE BACKFILL. A SOILS PROFILE SHALL BE DONE OF THE EXCAVATED NATIVE TRENCHED DIRT SO THE COMPACTION TEST CAN BE COMPARED WITH THE NATIVE DIRT PROFILE. THE CONTRACTOR SHALL PROVIDE ALL COMPACTION OF THE TRENCH REQUIRED TO MEET A 95% COMPACTION REQUIREMENT. AN INSPECTED AND SIGNED OFF COMPACTION TESTING REPORT SHALL BE PROVIDED BY THE SOILS TESTING LAB AND COPY OF THE COMPACTION TEST SHALL BE PROVIDED TO THE ENGINEER OF RECORD/PROJECT COORDINATOR PRIOR TO INSTALLING THE HARDSCAPE. THE CONTRACTOR SHALL WILL BE REQUIRED TO PAY FOR ALL TEST UNTIL THE COMPACTION RESULTS MEETS OR EXCEED THE COMPACTION TEST
- CONTRACTOR TO CONDUCT GROUND PENETRATING RADAR STUDY AND IT SHALL BE PERFORMED ALONG THE ENTIRE TRENCHING PRIOR TO ANY TRENCHING WORK.

ADMINISTRATIVE REQUIREMENTS

- A COPY OF THE CALIFORNIA CODE OF REGULATIONS TITLE 24, PARTS 1 AND 2 SHALL BE KEPT ON SITE FOR DURATION OF PROJECT.
- THE INTENT OF THIS PLANS AND SPECIFICATIONS IS THAT ALL WORK SHALL COMPLY WITH APPLICABLE LAWS AND STANDARDS. IF THE CONTRACTOR SHALL DISCOVER EXISTING CONDITIONS THAT WILL CAUSE NEW WORK TO NOT COMPLY WITH ALL APPLICABLE LAWS AND STANDARDS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE ENGINEER OF THE CONDITIONS. DIRECTION WILL BE GIVEN BY THE ENGINEER.
- CONSTRUCTION OVERSIGHT SHALL BE PER TITLE 24, PART 1 (CAC).
- 3.1. DUTIES OF THE ENGINEER ARE AS PER SECTIONS 4-333(A), 4-341, AND 4-344.
- 3.2. DUTIES OF THE CONTRACTOR ARE AS PER SECTION 4-343.

DEMOLITION AND CLEAN-UP NOTES

REMOVE ALL MATERIAL CAUSED BY THE DEMOLITION WORK FROM THE SITE AND LEAVE THE PREMISES CLEAN AND FREE OF DEBRIS.

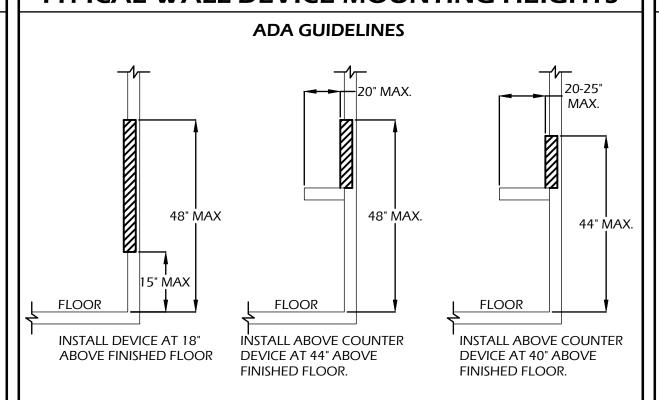
- PATCH HOLES WHERE FASTENERS, DEVICES OR EQUIPMENT HAS BEEN REMOVED, PAINT PATCH TO MATCH SURROUNDING AREA.
- ALL DEMOLITION SHALL COMPLY WITH CH.33 CBC AND CHAPTER 33 CFC.

ELECTRICAL EQUIPMENT NOTES

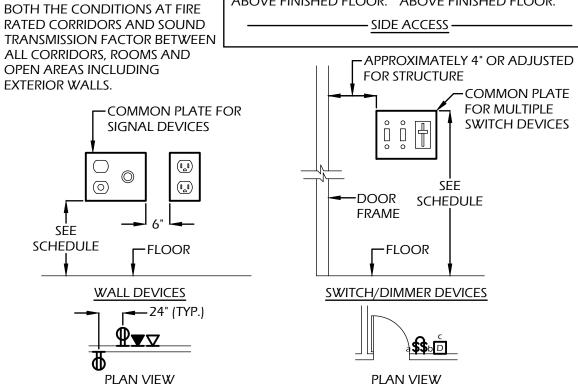
THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT, DEVICES AND WIRING. SEE SECTION 260000 OF THE SPECIFICATIONS.

SCAN ME

TYPICAL WALL DEVICE MOUNTING HEIGHTS



FRONT ACCESS ALL VERTICAL MEASUREMENTS ARE 'ABOVE FINISHED FLOOR' -SEE DRAWINGS FOR NON-TYPICAL MOUNTING HEIGHTS. WHERE MOUNTING HEIGHTS ARE 48" MAX. NOT SHOWN, REFER TO 46" MAX. ARCHITECTURAL PLANS. RECEPTACLES, LIGHT SWITCHES, 34" MAX. 34" MAX TELEPHONE-DATA OUTLETS AND OTHER RECESSED ELECTRICAL **DEVICES THAT ARE SHOWN BACK-TO-BACK ON WALLS** SEPARATING CORRIDORS, ROOMS AND OPEN AREAS SHALL BE SEPARATED HORIZONTALLY BY A LEAST 24 INCHES. THIS INSTALL DEVICE AT 44" INSTALL DEVICE AT 42" **REQUIREMENT IS TO SATISFY** ABOVE FINISHED FLOOR. ABOVE FINISHED FLOOR.



	DEVICE TYPE	MOUNTING HEIGHT						
l	SWITCHES, DIMMERS, KEYPADS	NO MORE THAN 48" A.F.F. TO TOP OF DEVICE						
l	RECEPTACLES	NO LESS THAN 15" A.F.F. TO BOTTOM OF DEVICE						
)	TELEPHONE, DATA, & TV OUTLETS	NO LESS THAN 15" A.F.F. TO BOTTOM OF DEVICE						
	RECEPTACLES, OUTLETS, SWITCHES, ETC. MOUNTED ABOVE COUNTERS	WITHIN THE REACH RANGES SPECIFIED IN SECTION 1138A.3 OF THE CALIFORNIA BUILDING CODE.						
\ I⊢	CLOCKS, SPEAKERS	AS SHOWN ON DRAWINGS						
1	HAND DRYERS	REFER TO ARCHITECTURAL PLANS						
	HAIR DRYERS	REFER TO ARCHITECTURAL PLANS						
J	WALL SCONCES	ABOVE 80" FOR PROJECTIONS INTO CORRIDORS OF MORE THAN 4" OR AS SHOWN ON DRAWING						
	EXIT LIGHTS, EXIT MARKERS	SEE DETAILS						
	WIREMOLD	MOUNTING HEIGHT SHALL BE SUCH THAT THE LOWEST						

BOTTOM OF DEVICE, U.O.N.

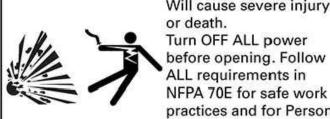
DEVICE MOUNTED ON WIREMOLD IS AT 15" A.F.F. TO

ARC FLASH WARNING LABEL REQUIREMENTS

CONDITION 1

DANGER

ELECTRICAL ARC FLASH HAZARD



or death. Turn OFF ALL power before opening. Follow ALL requirements in NFPA 70E for safe work practices and for Personal Protective Equipment.

ARC FLASH HAZARD HAZARD WARNING LABELS SHALL BE FIELD MARKED/PLACED ON ALL NEW AND EXISTING ELECTRICAL DISTRIBUTION BOARDS, MAIN SWITCHBOARDS, TRANSFORMERS, PANELS, PANELBOARDS, DISCONNECTS, MCC'S. PER CEC/NEC 110.16A THAT IS WITHIN THE SCOPE OF THIS PROJECT. LABELS SHALL BE APPLIED TO EXISTING EQUIPMENT WHERE NEW CONNECTIONS ARE MADE. THE LABELS SHALL MEET THE REQUIREMENTS OF 110.21(B) PER ANSI Z535.4-2011 GUIDELINES BY USING EFFECTIVE COLORS, SYMBOLS OR ANY **COMBINATION THEREOF**

CONDITION 2

Arc Flash and Shock Hazard Working Distance Arc Flash Boundary Restricted Approach

PPE Hazard Category mited Approach - Arc Rating of Clothing Arc-rated PPE: ☐ Face shield ☐ Coverall Additional PPE: Long-sleeve shirt Balaclava Hard hat lin Safety goggles ☐ Flash suit pants ☐ Flash suit hood Safety glasses Heavy duty leather gloves [

ARC FLASH HAZARD WARNING LABELS FOR AN ENTIRELY NEW ELECTRICAL SERVICE AND DISTRIBUTION SYSTEMS, THE EXCEPTION TO 110.16(B) SHALL BE UTILIZED AND ALL ELECTRICAL COMPONENTS OF THE DISTRIBUTION EQUIPMENT SHALL HAVE AN ARC FLASH WARNING LABEL WITH THE FOLLOWING INFORMATION:

- NOMINAL SYSTEM VOLTAGE
- ARC FLASH BOUNDARY MINIMAL ARC RATING OF CLOTHING
- AT LEAST ONE, BUT NOT BOTH OF THE FOLLOWING:
- INCIDENT ENERGY & CORRESPONDING WORKING DISTANCE
- THE ARC FLASH PPE CATEGORY THE LABELS SHALL MEET THE REQUIREMENTS OF 110.21(B) PER ANSI Z535.4-2011 GUIDELINES BY USING EFFECTIVE COLORS, SYMBOLS OR ANY COMBINATION THEREOF.
- THE CONTRACTOR SHALL HAVE THE EQUIPMENT MANUFACTURER PROVIDE THE REQUIRED LABELING OR OBTAIN THE SERVICES OF A THIRD PARTY OR THE ELECTRICAL ENGINEER OF

ARC FLASH HAZARD WARNING LABELS SHALL BE FIELD MARKED/PLACED ON ALL NEW SERVICE EQUIPMENT WITH THE FOLLOWING INFORMATION: NOMINAL SYSTEM VOLTAGE AVAILABLE FAULT CURRENT AT THE SERVICE OVERCURRENT PROTECTIVE DEVICES, CLEARING TIME OF THE SERVICE OVERCURRENT PROTECTIVE DEVICES BASED ON THE AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT, THE DATE THE LABEL WAS APPLIED. THE LABELS shall meet the requirements of 110.21(b) per ansi z535.4-2011 guidelines by using EFFECTIVE COLORS, SYMBOLS OR ANY COMBINATION THEREOF.

ELECTRICAL EQUIPMENT BRACING NOTES

ALL FLECTRICAL FOLJIPMENT SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS TEMPORARY OR MOVEABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD
- WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.
- MOVEABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
- THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT
- AND ASSOCIATED CONDUIT. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY
- SUPPORT THE COMPONENT. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
- FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

GENERAL NOTES

- ALL WORK AND MATERIAL SHALL CONFORM TO LATEST CODES AND ORDINANCES. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR SHALL FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION SHALL BE INCLUDED. NOTHING IN THESE PLANS OR SPECIFICATIONS MAY BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO ANY CONSTRUCTION CODES.
- ALL EQUIPMENT SHALL HAVE TESTING LABORATORY LABEL ATTACHED (U.L. C.S.A. ETC.) AS PER C.E.C. 110. PROOF OF TESTING LABELS REQUIRED WITH ALL SUBMITTALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THESE REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PURCHASING, IF ANY OF THE SPECIFIED MATERIAL FAILED THESE REQUIREMENTS. WHERE A FIELD CERTIFIED PRODUCT MAY BE REQUIRED FOR FIELD ASSEMBLED COMPONENT, PROVIDE CERTIFIED REPORT BY AN APPROVED TESTING AGENCY ACCEPTABLE TO THE AUTHORITIES HAVING JURISDICTION. INCLUDE ALL TESTING FEES IN BID.
- THE ENGINEERING SERVICE ARE LIMITED TO PREPARATION OF PLANS AND SPECIFICATIONS. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES ONLY AND NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY SCOPE OF WORK WITH GENERAL CONTRACTOR/OWNER SINCE THE ENGINEER IS NOT SUPERVISING THE JOB. THE ENGINEER WILL PROVIDE INTERPRETATION OF THE CONSTRUCTION DOCUMENTS, BUT SUPERVISION IS UNDER THE RESPONSIBILITY OF THE OWNER OR HIS APPOINTEE.
- WORKING CLEARANCE SHALL BE MAINTAINED AS PER C.E.C FOR ALL PANEL(S) SERVICE EQUIPMENT, DISCONNECT SWITCH, ETC. LOCAL UTILITY COMPANY WORKING CLEARANCE REQUIREMENT SHALL ALSO BE OBSERVED. POWER EQUIPMENT MANUFACTURER'S PRODUCT MAY VARY IN DIMENSION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORKING CLEARANCE REQUIREMENT WHEN LAYING OUT THE ELECTRICAL EQUIPMENT.
- ARC FLASH WARNING LABELS SHALL BE PLACED ON ALL ELECTRICAL DISTRIBUTION BOARDS, MAIN SWITCHBOARDS, TRANSFORMERS, PANELS PANELBOARDS, DISCONNECTS ETC. PER CEC 110.16. LABELS SHALL BE PER ANSI Z535.4 GUIDELINES. REFER TO THE ARC FLASH REQUIREMENTS PER THE TYPICAL
- THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF TERMINAL BOXES AND CONDUIT ENTRANCES OF ALL EQUIPMENT AGAINST SHOP DRAWINGS BEFORE STUBBING UP CONDUITS OR PENETRATING EXTERIOR WALL(S) OF BUILDING(S)
- IN CASE OF INTERFERENCE BETWEEN ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND OTHER EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE PROCEEDING.
- 8. ALL OUTDOOR DEVICES SHALL BE WEATHERPROOF.
- 9. ONLY MAJOR PULL BOXES ARE SHOWN. CONTRACTOR SHALL PROVIDE ADDITIONAL PULL BOXES WHERE THEY ARE REQUIRED TO MAKE A WORKABLE INSTALLATION. ALL PULL BOXES ABOVE GROUND SHALL BE PAD LOCKABLE. ALL PULL BOXES UNDERGROUND SHALL HAVE HOLD DOWN BOLTS AND BE TRAFFIC
- MARK ALL PANELS WITH LAMANOID TAGS RIVETED TO THE EQUIPMENT. PROVIDE TYPE WRITTEN PANEL SCHEDULE AT ALL PANELS.
- 11. ALL FLOOR/GROUND MOUNTED EQUIPMENT SHALL SIT ON A CONCRETE PAD 3" HIGHER THAN SURROUNDING SURFACE FOR INTERIOR EQUIPMENT AND 6" FOR EXTERIOR EQUIPMENT.
- SUPERVISION NECESSARY TO COMPLETE INSTALLATION, CHECKOUT AND INITIAL OPERATION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GENERAL ARRANGEMENT OF EQUIPMENT SHOWN AND SHALL SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT PRIOR TO PURCHASE.
- 4. CAUTION SHOULD BE USED WHEN EXCAVATING OR TRENCHING TO LOCATE EXISTING UNDERGROUND CONDUITS. COORDINATE WITH AGENCIES SUCH AS UNDERGROUND SERVICE ALERT PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING VISITED THE SITE AND SATISFIED HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL CHECK ALL OF THE CONDITIONS WHICH MAY AFFECT HIS WORK. THE SITE VISIT SHALL BE MADE PRIOR TO SUBMITTING THE BID. BIDDERS SHALL PREARRANGE A SITE VISIT WITH THE OWNER/PROJECT
- 16. THE CONTRACTOR SHALL OBTAIN A FULL SET OF PLANS WHEN BIDDING THE JOB. 35. EXISTING PICKLE BALL/TENNIS COURT LIGHTING DETAIL 1/E2.02 IS FOR GENERAL

- NEUTRALS ALLOWED. 18. ISOLATED GROUNDING CONDUCTORS SHALL BE SIZED TO MATCH THE EQUIPMENT GROUNDING CONDUCTOR SIZE AND INSTALLED AND CONNECTED ONLY TO THE RECEPTACLES REQUIRED TO BE CONNECTED TO THE ISOLATED GROUNDING SYSTEM AND GROUNDED AT THE MAIN GROUNDING BUS WITHIN

17. ALL PHASE CONDUCTORS SHALL HAVE THEIR OWN NEUTRALS. NO SHARING OF

THE THE PANEL OF CIRCUIT ORIGIN. THE ISOLATED GROUNDING CONDUCTOR

SHALL NOT BE CONNECTED TO ANY OTHER GROUNDING SYSTEM ALONG IT'S

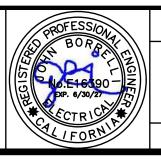
- 19. PATCH AND REPAIR ALL REMOVED CONCRETE TO MATCH ADJACENT SURFACES.
- 20. A CERTIFIED ELECTRICAL SHALL BE PRESENT ON THE PROJECT WHENEVER ELECTRICAL WORK IS IN PROGRESS. AN ELECTRICAL CONTRACTOR IS NOT EXEMPT FROM THIS REQUIREMENT AND SHALL ALSO BE CERTIFIED IF HE IS WORKING AS THE RESPONSIBLE PROJECT ELECTRICIAN. VIOLATION OF THIS REQUIREMENT BY EITHER ELECTRICIANS OR WORKING CONTRACTORS SHALL BE REPORTED TO THE STATE LICENSE CONTRACTOR BOARD AS REQUIRED UNDER THE EXISTING LABOR CODE SECTION 108.02. NO VOLUNTEERS ARE ALLOWED TO PERFORM WORK ON THIS PROJECT AND ALL CITY INSURANCE REQUIREMENTS MUST BE MET PRIOR TO PERFORMING ANY WORK.
- 21. ALL CONDUIT SHALL BE CONCEALED WITHIN ATTIC SPACE AND WALLS.
- 22. ALL EXTERIOR RECEPTACLES SHALL BE GFCI TYPE WITH A LOCKING, WEATHERPROOF IN-USE COVER.
- 23. ALL FASTENERS USED SHALL BE STAINLESS STEEL GRADE 316.
- 24. ALL CONDUIT AND CONDUCTORS INSTALLED IN UNDERGROUND OR WET LOCATIONS SHALL BE LISTED FOR WET LOCATIONS AND MARKED WITH 'W' PER
- 25. SPLICES AND TERMINALS SHALL BE COMPRESSION TYPE OF SEAMLESS PURE COPPER, TIN PLATED, LONG BARREL (TERMINALS WITH TWO-HOLE PAD AND INSPECTION WINDOW WITH NEMA DRILLING), AS MANUFACTURED BY BURNDY TYPE YS, YAZ-2N OR EQUAL. CLEAN ALL SURFACES AND INSTALL WITH OXIDE INHIBITING COMPOUND, BURNDY PENETROX-E OR EQUAL. INSTALL COMPRESSION CONNECTORS WITH 360° CIRCUMFERENTIAL COMPRESSION DYE, BURNDY HYPRESS OR EQUAL. THE INDENTER OR OTHER TYPE TOOLS WILL NOT BE ACCEPTABLE.
- 26. INSTALL MECHANICALLY FASTENED PHENOLIC NAMEPLATE WITH WHITE LETTING ON BLACK BACKGROUND ON ALL EQUIPMENT, INCLUDING PULL BOXES, WITH DESCRIPTION INDICATED ON DRAWINGS. NAMEPLATE LETTERING SIZE SHALL BE 3/16-INCH HIGH FOR ALL NAMEPLATES SERVING FEEDER AND BRANCH CIRCUIT BREAKERS, ON MAIN SERVICE PANELS AND ALL OTHER NAMEPLATES LETTERING SHALL BE 1/4-INCH HIGH.
- 26.1. ALL SWITCHBOARDS, SWITCHGEAR, PANEL BOARDS, VFD'S, MOTORS, JUNCTION BOXES, PULL BOXES, DISCONNECT SWITCHES, ETC, SHALL BE MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES PER CEC 408.4, FIELD IDENTIFICATION REQUIRED, (B) SOURCE OF
- 27. COORDINATE EQUIPMENT LOCATIONS, CONTROL AND POWER WIRING REQUIREMENTS AND CONNECTION POINTS WITH ALL APPLICABLE DISCIPLINES.
- 28. ONLY RIGID OR IMC CONDUIT SHALL BE USED WHEN TRANSITIONING FROM UNDERGROUND PVC CONDUIT TO ABOVE GROUND, PVC NOT ALLOWED.
- 29. ALL NEW METAL STRUCTURES AND THE ELECTRICAL SYSTEMS SHALL BE GROUNDED AND BONDED. REFER TO ELECTRICAL SPECIFICATIONS AND TYPICAL
- 30. ALL BUSES, CONDUCTORS, AND WINDINGS SHALL BE COPPER.
- 12. CONTRACTOR SHALL FURNISH ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND 31. ALL INTERRUPT AND SHORT CIRCUIT RATINGS SHALL BE FULLY RATED.
 - 32. ALL OUTDOOR ENCLOSURES SHALL BE WEATHERPROOF RATED AND HAVE LOCKING HASP. INCLUDING, BUT NOT LIMITED TO SWITCHBOARDS, DISCONNECTS ENCLOSURES, ETC. THE DISTRICT WILL PROVIDE THEIR OWN KEYED LOCKS. OUTDOOR PANELS SHALL HAVE KEYED LOCKING MECHANISM, KEYED PER DISTRICT'S STANDARD.
 - 33. AVAILABLE FAULT CURRENT SHALL BE INDICATED ON ALL NEWLY INSTALLED SERVICE EQUIPMENT PER ECE 110.24. THE FIELD MARKING SHALL INCLUDE THE DATE OF THE FAULT CURRENT CALCULATION WAS PERFORMED. FOR MODIFICATION TO THE ELECTRICAL INSTALLATION. THE AVAILABLE FAULT CURRENT SHALL BE RECALCULATED INCLUDING NEW LOADS AND POSTED ON SITE PRIOR TO FINAL INSPECTION PER CEC ARTICLE 110.24.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING UNDERGROUND SERVICE ALERT (USA) AND FOR MARKING ALL AREAS WHERE THE NEW UNDERGROUND CONDUIT WHERE BE INSTALLED.
 - ILLUMUNATION NON-SPORTS ACTIVITIES.



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RECORD DRAWING SCALE DATE DESIGNED: BAI RESIDENT ENGINEER DATE DRAWN: BAI INDICATED ON PLANS CHECKED: JB FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



ROAD NO. N/A

DATE

DESIGN ENGINEER

PROJECT

ARPA - KEARNEY PARK IMPROVEMENTS

BRIDGE NO.

ENGINEER.

DEPARTMENT OF PUBLIC WORKS AND PLANNING

ADDITIONAL NOTES & REQUIREMENTS

DRAWING NO. 11338 SHEET NO. TOTAL TBD E1.02

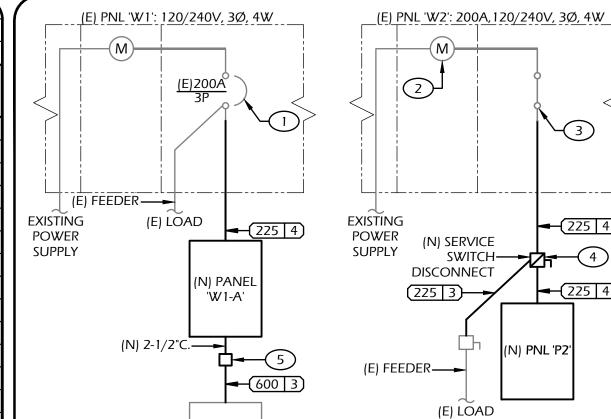
	VOLTAGE DROP CALCULATIONS													
Panel or Device	Distance			Parallel Runs	Wire Size	For segment V _{DS} %V _{DS}		Total to Device V _{DT} %V _{DT}						
PANEL 'W1-A'	30.000	Copper	160.000	240	3	1	#4/0	0.5062	0.21%	1.8374	0.77%			
PANEL 'R1'	988.000	Copper	100.000	240	1	2	350KCMIL	3.6415	1.52%	4.9726	2.07%			
PANEL 'P2'	30.000	Copper	80.000	240	3	1	# 1	0.6400	0.27%	5.9923	2.50%			
PANEL 'P3'	30.000	Copper	80.000	240	3	1	#1	0.6400	0.27%	5.9923	2.50%			

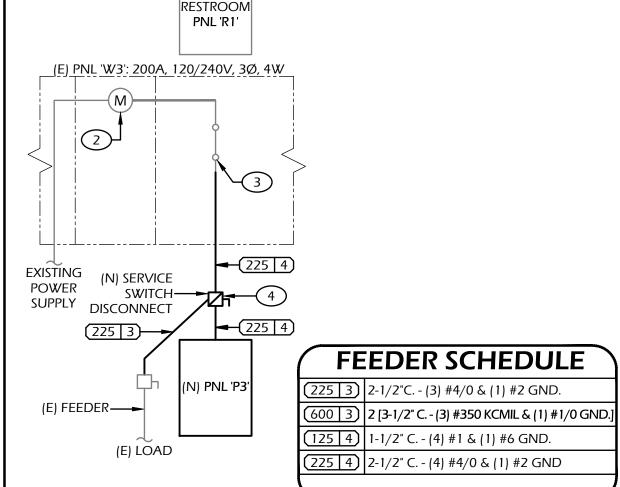
ELECTRICAL DISTRIBUTION												
WEIGHT & DIMENSIONS SCHEDULE												
NAME	СВ	WEIGHT(Lb)	w	D	Н	MOUNTING	MANUFACTURER					
PANEL 'W1-A'	200A	230	20"	6.5"	62"	SURFACE	SQUARE D OR EQUAL					
PANEL 'P2'	100A	173	20"	6.5"	44"	SURFACE	SQUARE D OR EQUAL					
PANEL 'P3'	100A	173	20"	6.5"	44"	SURFACE	SQUARE D OR EQUAL					

	VOLTA	\GE: 240)/120V,	3Ø, 4W			BREAKE	ER AIC: 3	35,000			
			BU	S: 125A	(N) P <i>A</i>	NEL 'P3'	MOUNTING: SURFACE					
	Μ	IAIN BRE	AKER: 1	00A/3P			NEMA 3	BR ENCL	OSURE.			
CIR #	BKR		oad (va Phase B		DESCRIPTION	DESCRIPTION	PHASE C	OAD (VA PHASE B		BKR	CIR #	
1	20A/1P	0	1		SPARE	LIGHTPOLE ENTRANCE		1,111111111	44	204/20	2	
3	1		0		↓	AREA		44		20A/2P	4	
5	1			0	\	SPARE	0			20A/1P	6	
7		0			SPACE	SPACE			0		8	
9	↓		0		\	↓		0		↓	10	
1 1	↓			0	Į .	↓	0			\downarrow	12	
13	↓	0			↓	↓			0	↓	14	
15	<u> </u>		0			↓		0		<u></u>	16	
17	<u> </u>			0	↓	↓	0			<u> </u>	18	
19	ļ ļ	0			<u></u>	↓			0	<u> </u>	20	
21	↓ ↓		0		1	↓		0		<u> </u>	22	
23	Į į			0	↓	↓	0			↓	24	
25	↓ ↓	0							0	↓	26	
27	↓ ↓		0					0		↓	28	
29				0			0			↓	30	
0	TAL Ø LO	ADS (VA	d):		PHASE A = 44	PHASE B = 44	PHASE C = 0					
0	TAL Ø LO	ADS (A):			PHASE A = 0	PHASE B = 0	PHASE	C = 0				
ГОТ	TAL LOAD) :			88 VA	0 A						

	VOLTA	NGE: 240	-	3Ø, 4W S: 225A	(BREAKER AIC: 35,000 MOUNTING: SURFACE					
	М	AIN BRE	AKER: 2	00A/3P			NEMA 3	R ENCL	.OSURE			
CIR		LOAD (VA)					L	OAD (V	4)		CII	
#	BKR	PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	PHASE C	PHASE B	PHASE A	BKR	#	
1	1254/25	7200			DANIEL IDAI	SPACE			0		2	
3	125A/2P		7200		PANEL 'R1'	<u> </u>		0		\	4	
5	20A/2P			234.5	LIGHTPOLE	SPARE	0			20A/1P	6	
7	207927	66			LIGHTFOLE	SPACE			0		8	
9	20A/1P		234.5		SPARE	↓		0		\	10	
11	↓			0	↓	↓	0			↓	12	
13		0			SPACE	↓			0	↓	14	
15	↓		0		↓	\		0		\downarrow	16	
17	↓			0	↓	↓	0			↓	18	
19	1	0			↓	↓			0	↓	20	
21	↓		0		↓	↓		0		↓	22	
23	1			0	↓	↓	0			↓	24	
25	\	0							0	↓	26	
27	↓		0					0		<u> </u>	28	
29	\			0			0			<u> </u>	30	
	TAL Ø LO		·		PHASE A = 7266	PHASE B = 7435	PHASE					
TOT	TAL Ø LO	ADS (A):			PHASE A = 52	PHASE B = 54	PHASE	C = 2				
TOT	TAL LOAD) :			14936 VA 36 A							

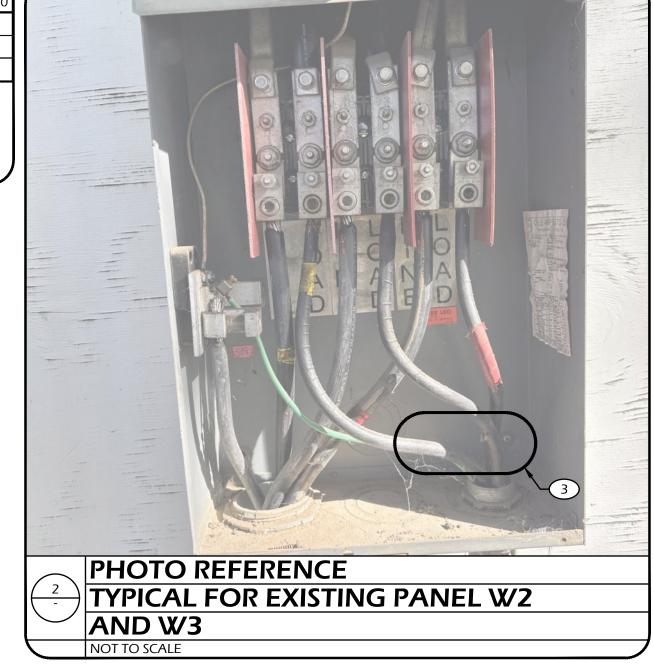
	VOLTA	NGE: 240)/120V,	3Ø, 4W			BREAKE	ER AIC: 3	35,000		\supset		
			BU	S: 125A	(N) PAI	NEL 'P2'	MOUNTING: SURFACE						
	М	AIN BRE					NEMA 3R ENCLOSURE						
CIR		LOAD (V						OAD (V.			CIR		
#	BKR	PHASE	PHASE B	C	DESCRIPTION	DESCRIPTION	L C	PHASE B	PHASE A	BKR	#		
1	20A/1P	0	Ъ		SPARE			В	754.5		2		
3	1		0		JI / IKE	LIGHTPOLE SPORT AREA		754.5	751.5	20A/2P	4		
5	<u> </u>			0		LIGHTPOLE PARKING	440	, , ,			6		
7	·	0			SPACE	AREA			440	20A/2P	8		
9	↓ ↓		0		↓	SPARE		0		20A/1P	10		
11				0	↓	↓	0			+	12		
13	↓	0			<u> </u>	SPACE			0		14		
15	→		0		<u> </u>	↓		0		1	16		
17	→			0	<u> </u>	↓	0			→	18		
19	→	0			<u> </u>	↓			0	→	20		
21	→		0		ļ	↓		0		↓	22		
23	→			0	\	↓	0			→	24		
25	↓ ↓	0							0	1	26		
27	↓		0					0		↓	28		
29	Į.			0			0			1	30		
тот	AL Ø LO	ADS (VA	i):		PHASE A = 1195	PHASE B = 755		C = 440					
тот	AL Ø LO	ADS (A):			PHASE A = 9	PHASE B = 5	PHASE	C = 3					
тот	AL LOAD) :			2390 VA	6 A							





PARTIAL SINGLE LINE DIAGRAM

NOT TO SCALE



SHEET NOTES

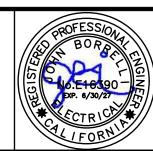
- PROVIDE AND INSTALL A GREAVES TREGO DUAL POWER CONNECTOR TO EACH PHASE OF THE EXISTING CIRCUIT BREAKER TO TAP GREAVES MODEL JL90 SERIES MODEL #2J5L AND CONNECT TO THE LOAD SIDE OF THE EXISTING CIRCUIT BREAKER.
- 2. COORDINATE WITH PG&E TO REMOVE THE METER SO THE PANEL IS DE-ENERGIZED.
 - B. DISCONNECT AND REMOVE THE EXISTING LOAD WIRING AND FLEX CONDUIT BACK TO THE EXISTING DISCONNECT. PROVIDE AND INSTALL NEW CONDUIT AND CONDUCTOR INDICATED PER THE SINGLE LINE DIAGRAM FROM THE EXISTING SWITCH DISCONNECT BACK TO THE NEW SERVICE SWITCH DISCONNECT. PROVIDE AND INSTALL NEW CONDUIT AND CONDUCTOR INDICATED PER THE SINGLE LINE DIAGRAM BACK TO THE NEW SERVICE SWITCH DISCONNECT. MAKE ALL CONNECTIONS.
- PROVIDE AND INSTALL 200A, 240V FUSED SERVICE SWITCH
 DISCONNECT SQUARE D #VH324NR WITH LOAD SIDE DOUBLE LUG KIT
 AND CLASS R FUSES AND KIT.
- 5. PROVIDE AND INSTALL A 36x36x8-INCH DEEP NEMA-3R LOCKING CAN MOUNTED JUST BELOW THE PANEL. NIPPLE THROUGH TO THE PANEL WITH A 2-1/2 NIPPLE. PROVIDE A POLARIS KIT WITHIN THE LOCKING CAN AND PROVIDE AND INSTALL (4) 4/0 AND (1) #2 COPPER GROUND AND MAKE WATERPROOF SPLICE WITHIN THE PULLBOX TO FEED THE PORTABLE BUILDING.

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,				
	DATE	RECORD DRAWING		SCALE
DESIGNED: BAI		RESIDENT ENGINEER	DATE	
DRAWN: BAI				INDICATED ON BLANC
CHECKED: JB				INDICATED ON PLANS
FOR RIGHT OF WAY DATA AND ACCURATE AG	CCESS DETERMINATION, SE	E DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLA	NNING.	



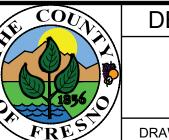
DATE

DESIGN ENGINEER

PROJECT

ARPA - KEARNEY PARK IMPROVEMENTS

ROAD NO. N/A BRIDGE NO. N/A



DEPARTMENT OF PUBLIC WORKS AND PLANNING

PARTIAL SINGLE LINE DIAGRAM & PANEL SCHEDULES

DRAWING NO. 11338 SHEET NO. E1.03 TOTAL TBD

LIGHTS	MANUFACTURER AND MODEL	LAMPS	REMARKS	WATTS	LBS
	B-K LIGHTING #S-TY2-LED-X51-NFL-10-D57-RO	LED	5,571 LUMENS (NOMINAL) LED FIXTURE FLOOR MOUNTED. INSTALL SO IT AIMS TOWARD THE FLAG. LIGHT FIXTURE SHALL HAVE 0-10V DIMMING DRIVER.	57	26
	EVERGREEN #104340L-40LED-3000K-DIM	LED	4,000 LUMEN, LED FIXTURE WET RATED. LIGHT FIXTURE SHALL HAVE 0-10V DIMMING DRIVER.	40	20
	COOPER #GLEON-SA1B-740-U-T3-EA-AHD145	LED	5,986 LUMENS, POLE MOUNTED LED FIXTURE. FIXTURE SHALL BE MOUNTED ON A 25-FOOT HIGH, 5-INCH SQUARE STEEL POLE. FIXTURE SHALL HAVE AFTER HOURS DIMMING OPTION CAPABLE OF TWO NIGHTTIME MODES WITH AT LEAST 50% DIMMING. LIGHT FIXTURE SHALL HAVE PHOTOCELL.	44	33
	COOPER #GLEON-SA1B-740-U-T3-EA-AHD145 (2) LIGHT FIXTURES AT 90 DEGREES APART	LED	(2) 5,986 LUMENS, POLE MOUNTED LED FIXTURE AT 90 DEGREES APART. FIXTURES SHALL BE MOUNTED ON A 25-FOOT HIGH, 5-INCH SQUARE STEEL POLE. FIXTURES SHALL HAVE AFTER HOURS DIMMING OPTION CAPABLE OF TWO NIGHTTIME MODES WITH AT LEAST 50% DIMMING. LIGHT FIXTURES SHALL HAVE PHOTOCELL.	TWO LIGHT FIXTURES 44W EACH	TWO LIGH FIXTURES 33 LBS EAC
	COOPER #GLEON-SA1B-740-U-T4FT-EA-AHD145 (3) LIGHT FIXTURES AT 90 DEGREES APART	LED	(3) 6,019 LUMENS, POLE MOUNTED LED FIXTURES AT 90 DEGREES APART. FIXTURES SHALL BE MOUNTED ON A 25-FOOT HIGH, 5-INCH SQUARE STEEL POLE. FIXTURES SHALL HAVE AFTER HOURS DIMMING OPTION CAPABLE OF TWO NIGHTTIME MODES WITH AT LEAST 50% DIMMING. LIGHT FIXTURES SHALL HAVE PHOTOCELL.	THREE LIGHT FIXTURES 44W EACH	THREE LIGH FIXTURES 33 LBS EAC
	COOPER #GLEON-SA1B-740-U-T4FT-EA-AHD145 (2) LIGHT FIXTURES AT 180 DEGREES APART	LED	(2) 6,019 LUMENS, POLE MOUNTED LED FIXTURES AT 180 DEGREES APART. FIXTURES SHALL BE MOUNTED ON A 25-FOOT HIGH, 5-INCH SQUARE STEEL POLE. FIXTURES SHALL HAVE AFTER HOURS DIMMING OPTION CAPABLE OF TWO NIGHTTIME MODES WITH AT LEAST 50% DIMMING. LIGHT FIXTURES SHALL HAVE PHOTOCELL.	TWO LIGHT FIXTURES 44W EACH	TWO LIGH FIXTURES 33 LBS EAC
	COOPER #GLEON-SA6B-740-U-T4FT-EA-AHD145	LED	34,384 LUMENS, POLE MOUNTED LED FIXTURE. FIXTURE SHALL BE MOUNTED ON A 25-FOOT HIGH, 5-INCH SQUARE STEEL POLE. FIXTURE SHALL HAVE AFTER HOURS DIMMING OPTION CAPABLE OF TWO NIGHTTIME MODES WITH AT LEAST 50% DIMMING. LIGHT FIXTURE SHALL HAVE PHOTOCELL.	249	44
	COOPER #GLEON-SA6B-740-U-T4FT-EA-AHD145-MS/DIM-L40W	LED	34,384 LUMENS, POLE MOUNTED LED FIXTURE. FIXTURE SHALL BE MOUNTED ON A 25-FOOT HIGH, 5-INCH SQUARE STEEL POLE. FIXTURE SHALL HAVE AFTER HOURS DIMMING OPTION CAPABLE OF TWO NIGHTTIME MODES WITH AT LEAST 50% DIMMING AND WITH MOTION RESPONSE OVERRIDE DURING THE PROGRAMMED 50% DIMMED PERIOD.	249	44
	COOPER #GAN-SA1B-740-U-T4FT-ADJS-AHD145-MA1197-XX	LED	(3) 6,019 LUMENS, POLE MOUNTED FLOOD LED FIXTURES. FIXTURES SHALL BE TENON MOUNTED ON A 25-FOOT HIGH, 5-INCH SQUARE STEEL POLE AT 120 DEGREES. FIXTURES SHALL HAVE AFTER HOURS DIMMING OPTION CAPABLE OF TWO NIGHTTIME MODES WITH AT LEAST 50% DIMMING. LIGHT FIXTURE SHALL HAVE PHOTOCELL. LIGHT FIXTURE SHALL BE MOUNTED AT 60-DEGREES FROM HORIZONTAL. REFER TO PLANS FOR AIMING REQUIRMENT.	THREE LIGHT FIXTURES 44W EACH	FIXTURES
	COOPER #GAN-SA1B-740-U-T4FT-ADJS-AHD145-MA1037-XX	LED	HIGH, 5-INCH SQUARE STEEL POLE AT 180 DEGREES. FIXTURES SHALL HAVE AFTER HOURS DIMMING OPTION CAPABLE OF TWO NIGHTTIME MODES WITH AT LEAST 50% DIMMING. LIGHT FIXTURE SHALL HAVE PHOTOCELL. LIGHT	TWO LIGHT FIXTURES 44W EACH	FIXTURES
	COOPER #GAN-SA6B-740-U-T4FT-ADJS-AHD145-MA1036-XX	LED	34,384 LUMENS, POLE MOUNTED FLOOD LED FIXTURE. FIXTURE SHALL BE TENON MOUNTED ON A 25-FOOT HIGH, 5-INCH SQUARE STEEL. FIXTURE SHALL HAVE AFTER HOURS DIMMING OPTION CAPABLE OF TWO NIGHTTIME MODES WITH AT LEAST 50% DIMMING. LIGHT FIXTURE SHALL HAVE PHOTOCELL. LIGHT FIXTURE SHALL BE MOUNTED AT 45-	249	45
	14	LED	34,384 LUMENS, POLE MOUNTED FLOOD LED FIXTURE. FIXTURE SHALL BE TENON MOUNTED ON EXISTING ROUND POLE. FIXTURE SHALL HAVE AFTER HOURS DIMMING OPTION CAPABLE OF TWO NIGHTTIME MODES WITH AT LEAST 50% DIMMING. LIGHT FIXTURE SHALL HAVE PHOTOCELL. LIGHT FIXTURE SHALL BE MOUNTED AT 45-DEGREES FROM	249	45
	COOPER #GAN-SA1B-740-U-T4FT-ADJS-AHD145-MA1036-XX	LED	6,019 LUMENS, POLE MOUNTED FLOOD LED FIXTURE. FIXTURE SHALL BE TENON MOUNTED ON A 25-FOOT HIGH, 5-INCH SQUARE STEEL POLE AT 180 DEGREES. FIXTURE SHALL HAVE AFTER HOURS DIMMING OPTION CAPABLE OF TWO NIGHTTIME MODES WITH AT LEAST 50% DIMMING. LIGHT FIXTURE SHALL HAVE PHOTOCELL. LIGHT FIXTURE	44	34
	EVERGREEN #104340L-40LED-3000K-DIM POLE: MILLERBEND BEMIDJI #DBA-E-070-120-PTI-H	LED	4,000 LUMEN, LED FIXTURE WET RATED. FIXTURES SHALL BE POST TOP MOUNTED ON A 12-FOOT HIGH, STEEL POLE. LIGHT FIXTURE SHALL HAVE 0-10V DIMMING DRIVER. CONTRACTOR TO COORDINATE FITTER ADAPTER.	40	20
	EVERGREEN #104340L-40LED-3000K-DIM POLE: MILLERBEND BEMIDJI	LED	4,000 LUMEN, LED FIXTURE WET RATED. FIXTURES SHALL BE POST TOP MOUNTED ON A 12-FOOT HIGH, STEEL POLE. LIGHT FIXTURE SHALL HAVE 0-10V DIMMING DRIVER. CONTRACTOR TO COORDINATE FITTER ADAPTER.	40	20
	#DBA-E-070-120-F11-H COOPER (FIXTURES AT 180 DEGREES APART) #GLEON-SA6B-740-U-T4FT-EA-AHD145-MS/DIM-L40W (THIS LIGHT SHALL BE FACING THE SPORT AREA)	LED	ONE 249W,44LBS, 34,384 LUMENS, POLE MOUNTED LED FIXTURE. FIXTURE SHALL HAVE AFTER HOURS DIMMING OPTION CAPABLE OF TWO NIGHTTIME MODES WITH AT LEAST 50% DIMMING AND WITH MOTION RESPONSE OVERRIDE DURING THE PROGRAMMED 50% DIMMED PERIOD. LIGHT FIXTURE SHALL HAVE PHOTOCELL. LIGHT SHALL BE FACING THE SPORT AREA, REFER TO PLANS. ONE 44W, 33LBS, 5,986 LUMENS, POLE MOUNTED LED FIXTURE FIXTURE SHALL HAVE AFTER HOURS DIMMING	293	77
		BK LIGHTING #S-TY2-LED-X51-NFL-10-D57-RO EVERGREEN #104340L-40LED-3000K-DIM COOPER #GLEON-SA1B-740-U-T3-EA-AHD145 COOPER #GLEON-SA1B-740-U-T3-EA-AHD145 [2] LIGHT FIXTURES AT 90 DEGREES APART COOPER #GLEON-SA1B-740-U-T4FT-EA-AHD145 [2] LIGHT FIXTURES AT 180 DEGREES APART COOPER #GLEON-SA6B-740-U-T4FT-EA-AHD145 COOPER #GLEON-SA6B-740-U-T4FT-EA-AHD145 COOPER #GAN-SA1B-740-U-T4FT-EA-AHD145-MS/DIM-L40W COOPER #GAN-SA1B-740-U-T4FT-ADJS-AHD145-MA1037-XX COOPER #GAN-SA1B-740-U-T4FT-ADJS-AHD145-MA1036-XX 14 COOPER #GAN-SA1B-740-U-T4FT-ADJS-AHD145-MA1036-XX 14 COOPER #GAN-SA1B-740-U-T4FT-ADJS-AHD145-MA1036-XX EVERGREEN #104340L-40LED-3000K-DIM POLE: MILLERBEND BEMIDJI #DBA-E-070-120-PT1-H EVERGREEN #104340L-40LED-3000K-DIM POLE: MILLERBEND BEMIDJI #DBA-E-070-120-PT1-H COOPER (FIXTURES AT 180 DEGREES APART) #GLEON-SA6B-740-U-T4FT-EA-AHD145-MS/DIM-L40W	BK LIGHTING #S-TY2-LED-X51-NFL-10-D57-RO EVERGREEN #104340L-40LED-3000K-DIM COOPER #GLEON-SA1B-740-U-T3-EA-AHD145 [2] LIGHT FIXTURES AT 90 DEGREES APART COOPER #GLEON-SA1B-740-U-T4FT-EA-AHD145 [3] LIGHT FIXTURES AT 90 DEGREES APART COOPER #GLEON-SA1B-740-U-T4FT-EA-AHD145 [2] LIGHT FIXTURES AT 180 DEGREES APART COOPER #GLEON-SA6B-740-U-T4FT-EA-AHD145 [2] LIGHT FIXTURES AT 180 DEGREES APART COOPER #GLEON-SA6B-740-U-T4FT-EA-AHD145 LED COOPER #GAN-SA1B-740-U-T4FT-EA-AHD145-MS/DIM-L40W LED COOPER #GAN-SA1B-740-U-T4FT-ADJS-AHD145-MA1197-XX LED COOPER #GAN-SA1B-740-U-T4FT-ADJS-AHD145-MA1036-XX LED 14 LED COOPER #GAN-SA1B-740-U-T4FT-ADJS-AHD145-MA1036-XX LED COOPER #GAN-SA1B-740-U-T4FT-ADJS-AHD145-MA1036-XX LED LED COOPER #GAN-SA1B-740-U-T4FT-ADJS-AHD145-MA1036-XX LED COOPER #GAN-SA1B-7	DELIGITING ON TO LED NOT THE TO DO TO TO ONE OF THE PROPERTY O	### FEBONINGS AND LIGHT FOR CO. ### STATE ASSISTMENT OF THE PROPERTY OF THE P

1. COORDINATE ALL COLORS WITH OWNER/ARCHITECT PRIOR TO ORDERING. CONTRACTOR SHALL PROVIDE COLOR SAMPLES DURING SUBMITTAL STAGE

2. ALL CLEAR, ACRYLIC, PRISMATIC LENSES ARE TO BE MINIMUM 0.125" PATTERN K12, U.O.N

ROAD NO. N/A

3. ALL LEDS SHALL HAVE A CRI OF 0.8 AND COLOR TEMPERATURE OF 4000K.

4. ALL DRIVERS SHALL HAVE LESS THAN 10% THD. 5. FIXTURE TYPE IS SHOWN WITHIN MOST FIXTURES.

6. PRIOR TO ORDERING FIXTURES REFER TO THE LIGHTING PLAN FOR THE CORRECT VOLTAGES TO BE UTILIZED FOR THE FIXTURES. 7. CONTRACTOR TO BUY (2) FSIR-100 PROGRAMMING TOOL AND GIVE THEM TO THE COUNTY AFTER LIGTHING HAS BEEN PROGRAMMED.

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BAI Project #24120 **SCAN ME**

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CHECKED: JB				INDICATED ON PLANS
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS D	ETERMINATION, SE	EE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLAN	NING.	

DATE

DESIGN ENGINEER

PROJECT

ARPA - KEARNEY PARK IMPROVEMENTS

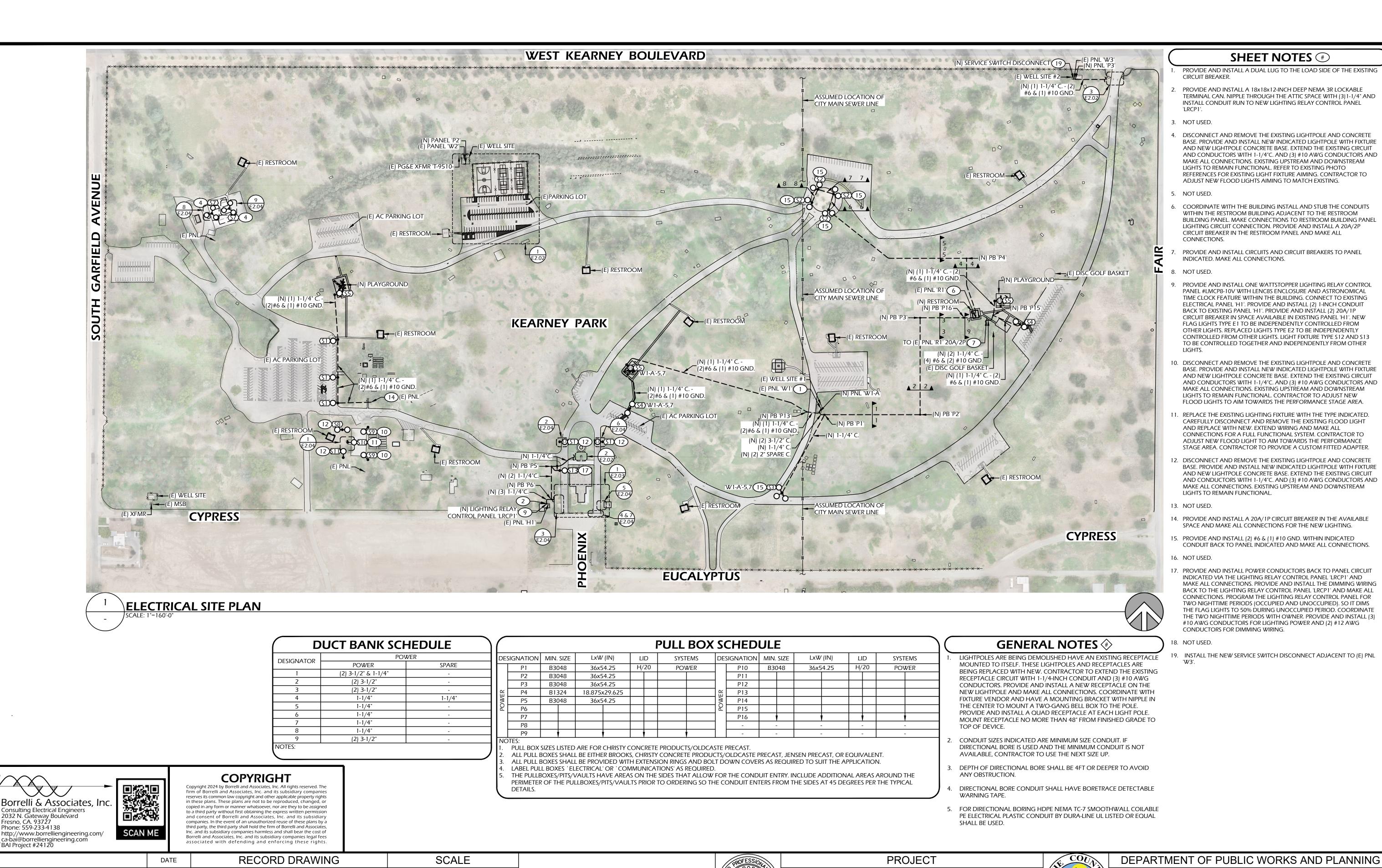
BRIDGE NO. N/A



DEPARTMENT OF PUBLIC WORKS AND PLANNING

LIGHTING FIXTURE SCHEDULE

DRAWING NO. 11338 SHEET NO. E1.04 TOTAL TBD



DESIGNED: BAI

DRAWN: BAI

CHECKED: JB

RESIDENT ENGINEER

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DATE

INDICATED ON PLANS

DESIGN ENGINEER

DATE

G:\Government\Counties\Fresno\Parks\KearneyPark\2024-Ltg&Pwr\E2-01.dwg, E2.01-ELECTRICAL SITE PLAN, 5/30/2025 9:14:52 AM, wj2032, AutoCAD PDF (High Quality Print).pc3

DRAWING NO. 11338

ELECTRICAL SITE PLAN

E2.01

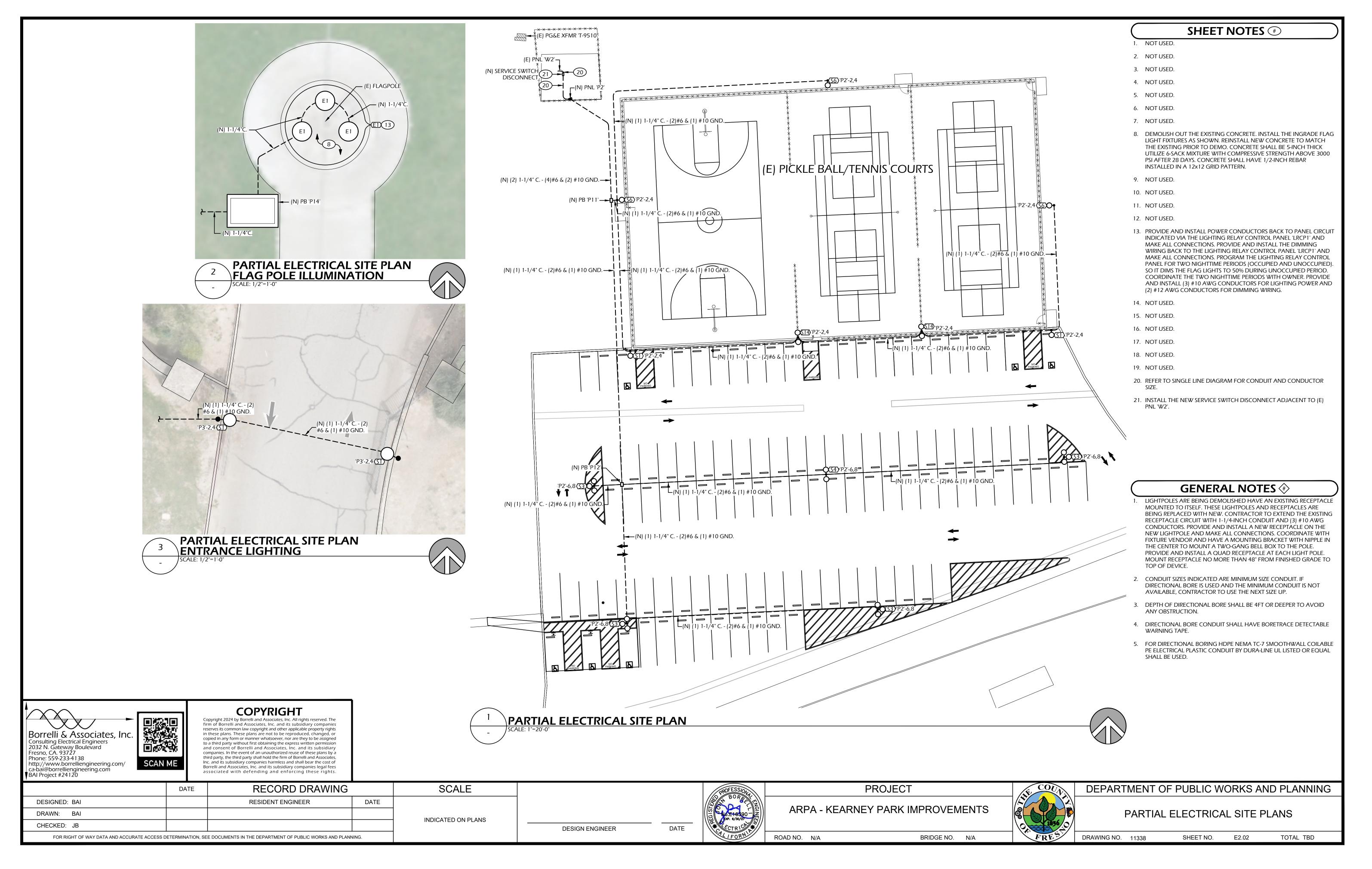
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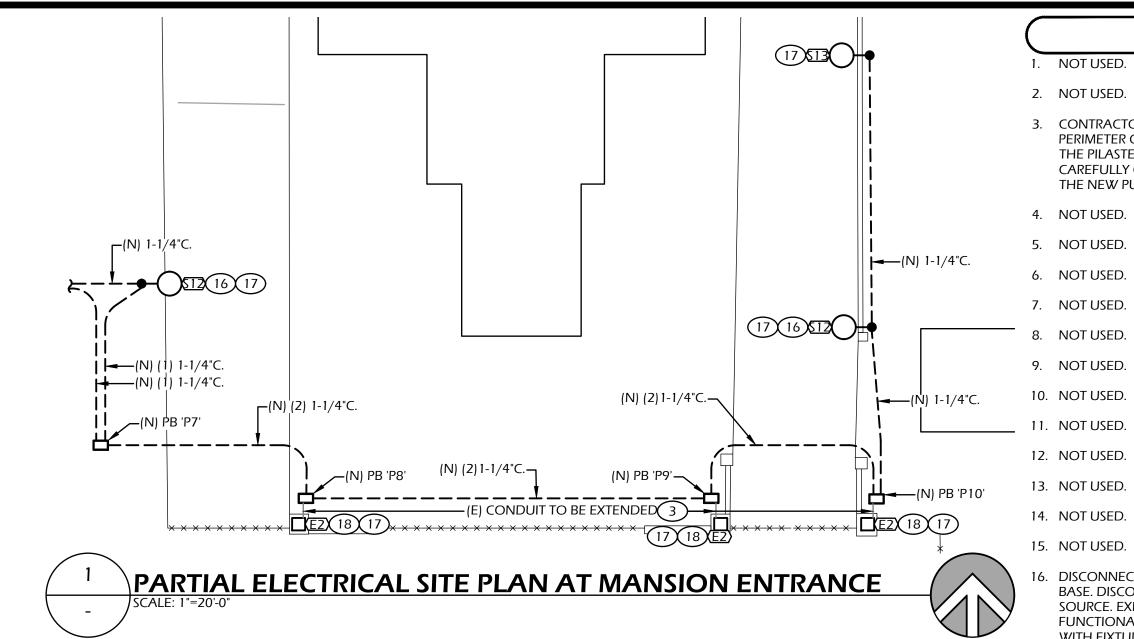
SHEET NO.

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BRIDGE NO.

ROAD NO. N/A





SHEET NOTES #

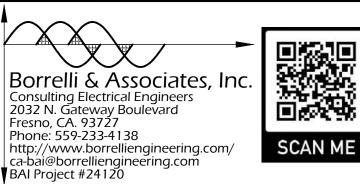
- 3. CONTRACTOR SHALL CAREFULLY DIG AROUND THE ENTIRE OUTER PERIMETER OF THE PILASTER TO FIND THE EXISTING CONDUIT FEED TO THE PILASTER LIGHTING. ONCE FOUND, CONTRACTOR SHALL CAREFULLY CUT AND INTERCEPT THE CONDUIT AND EXTEND INTO THE NEW PULLBOX WITH A 1-INCH CONDUIT.
- NOT USED.
- NOT USED.

- 11. NOT USED.
- 12. NOT USED.

- DISCONNECT AND REMOVE THE EXISTING LIGHTPOLE AND CONCRETE BASE. DISCONNECT AND REMOVE ALL CONDUCTORS BACK TO SOURCE. EXISTING UPSTREAM AND DOWNSTREAM LIGHTS TO REMAIN FUNCTIONAL. PROVIDE AND INSTALL NEW INDICATED LIGHTPOLE WITH FIXTURE AND NEW LIGHTPOLE CONCRETE BASE.
- 17. PROVIDE AND INSTALL THE POWER CONDUCTORS BACK TO PANEL CIRCUIT INDICATED VIA THE LIGHTING RELAY PANEL 'LRCP1' AND MAKE ALL CONNECTIONS. PROVIDE AND INSTALL THE DIMMING WIRING BACK TO THE LIGHTING RELAY CONTROL PANEL 'LRCP1' AND MAKE ALL CONNECTIONS. PROGRAM THE LIGHTING RELAY CONTROL PANEL FOR TWO NIGHTTIME PERIODS (OCCUPIED AND UNOCCUPIED) SO IT DIMS THE LIGHTS TO 50% DURING UNOCCUPIED PERIOD. COORDINATE THE TWO NIGHTTIME PERIODS WITH OWNER. PROVIDE AND INSTALL (3) #10 AWG CONDUCTORS FOR LIGHTING POWER AND (2) #12 AWG CONDUCTORS FOR DIMMING WIRING.
- 18. REMOVE AND REPLACE WITH NEW LIGHT FIXTURE SEE DETAIL 7 ON SHEET E2.04 CONTRACTOR TO PROVIDE CUSTOM FITTED ADAPTER FOR MOUNTING THE NEW LIGHT. CAREFULLY MOUNT THE ADAPTER TO THE EXISTING PILLAR.

GENERAL NOTES **(*)**

- 1. LIGHTPOLES ARE BEING DEMOLISHED HAVE AN EXISTING RECEPTACLE MOUNTED TO ITSELF. THESE LIGHTPOLES AND RECEPTACLES ARE BEING REPLACED WITH NEW. CONTRACTOR TO EXTEND THE EXISTING RECEPTACLE CIRCUIT WITH 1-1/4-INCH CONDUIT AND (3) #10 AWG CONDUCTORS. PROVIDE AND INSTALL A NEW RECEPTACLE ON THE NEW LIGHTPOLE AND MAKE ALL CONNECTIONS. COORDINATE WITH FIXTURE VENDOR AND HAVE A MOUNTING BRACKET WITH NIPPLE IN THE CENTER TO MOUNT A TWO-GANG BELL BOX TO THE POLE. PROVIDE AND INSTALL A QUAD RECEPTACLE AT EACH LIGHT POLE. MOUNT RECEPTACLE NO MORE THAN 48" FROM FINISHED GRADE TO TOP OF DEVICE.
- 2. CONDUIT SIZES INDICATED ARE MINIMUM SIZE CONDUIT. IF DIRECTIONAL BORE IS USED AND THE MINIMUM CONDUIT IS NOT AVAILABLE, CONTRACTOR TO USE THE NEXT SIZE UP.
- 3. DEPTH OF DIRECTIONAL BORE SHALL BE 4FT OR DEEPER TO AVOID ANY OBSTRUCTION.
- 4. DIRECTIONAL BORE CONDUIT SHALL HAVE BORETRACE DETECTABLE WARNING TAPE.
- 5. FOR DIRECTIONAL BORING HDPE NEMA TC-7 SMOOTHWALL COILABLE PE ELECTRICAL PLASTIC CONDUIT BY DURA-LINE UL LISTED OR EQUAL SHALL BE USED.



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DATE

DESIGN ENGINEER

PROJECT

ARPA - KEARNEY PARK IMPROVEMENTS

ROAD NO. N/A BRIDGE NO. N/A

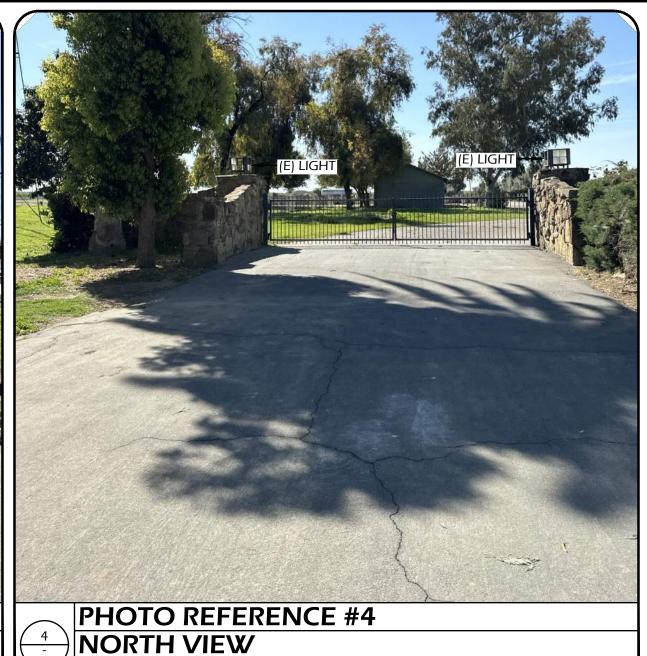
DEPARTMENT OF PUBLIC WORKS AND PLANNING

PARTIAL ELECTRICAL SITE PLAN

DRAWING NO. 11338 SHEET NO. E2.03 TOTAL TBD



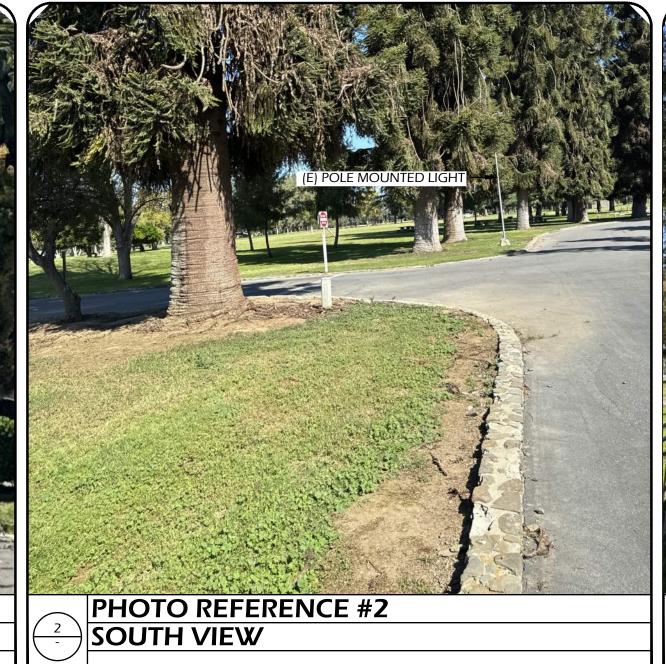
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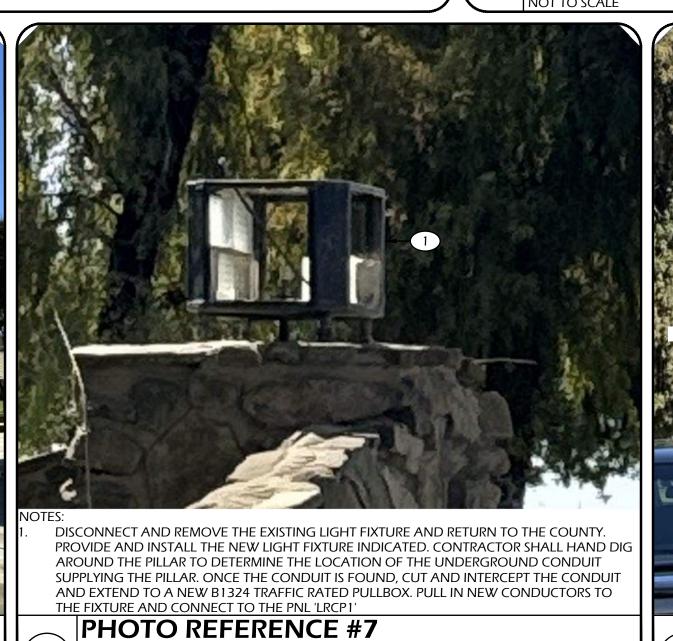


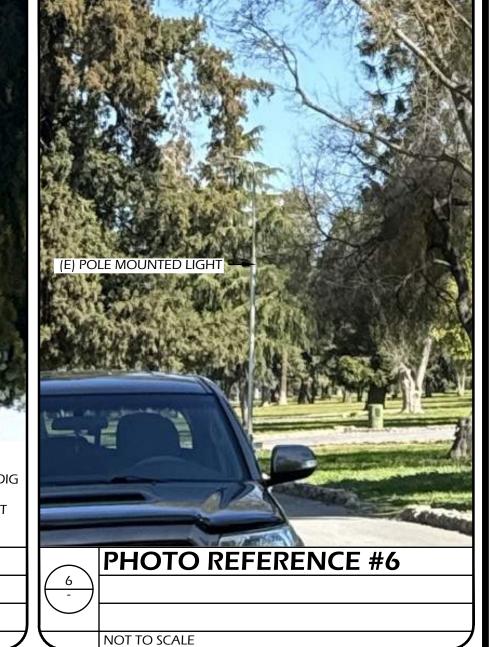
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PHOTO REFERENCE #9







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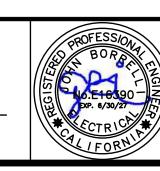
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KEARNEY PARK IMPROVE

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BRIDGE NO. N/A

ARPA - KEARNEY PARK IMPROVEMENTS

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DRAWING NO. 11338

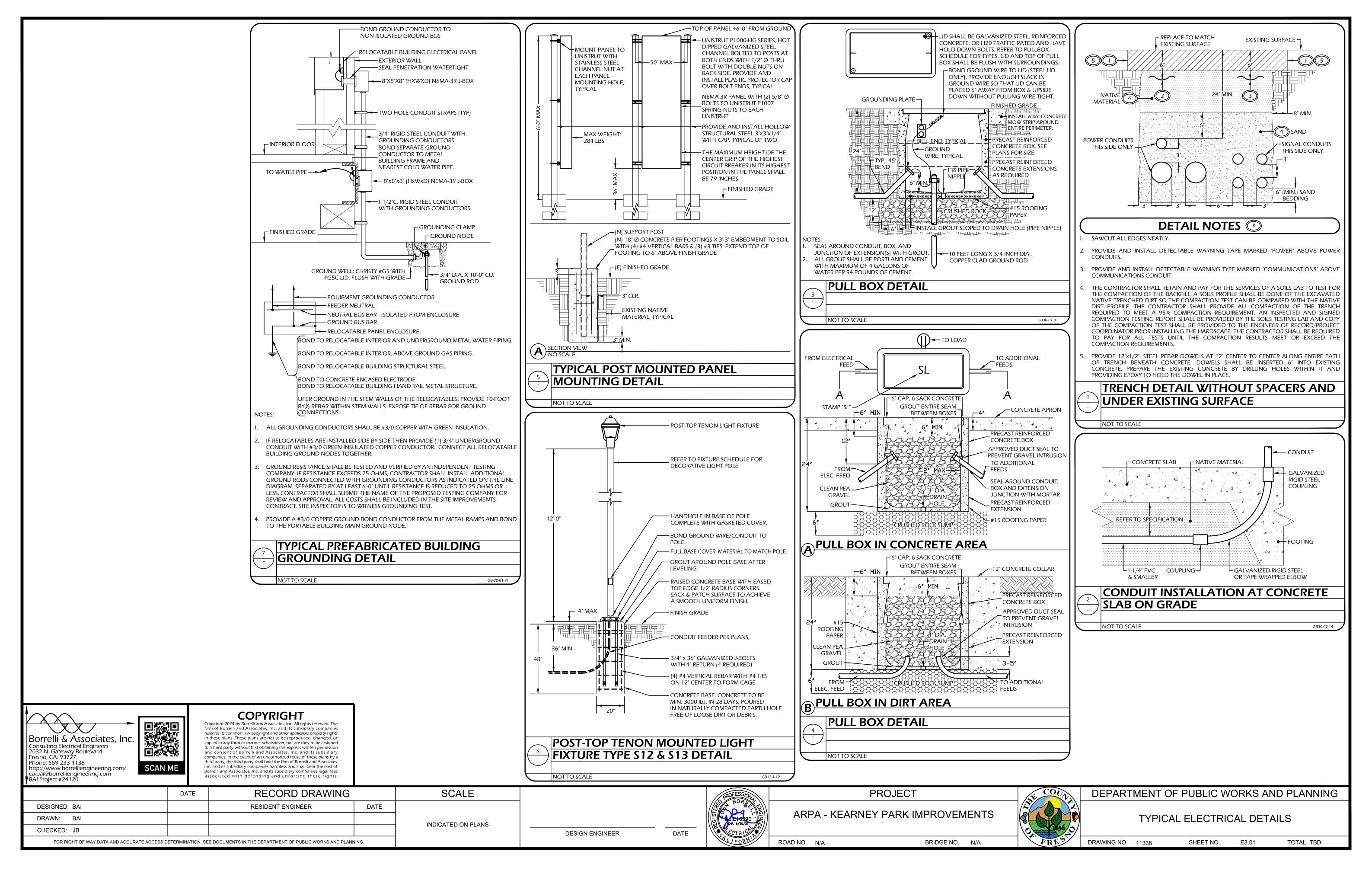
DEPARTMENT OF PUBLIC WORKS AND PLANNING

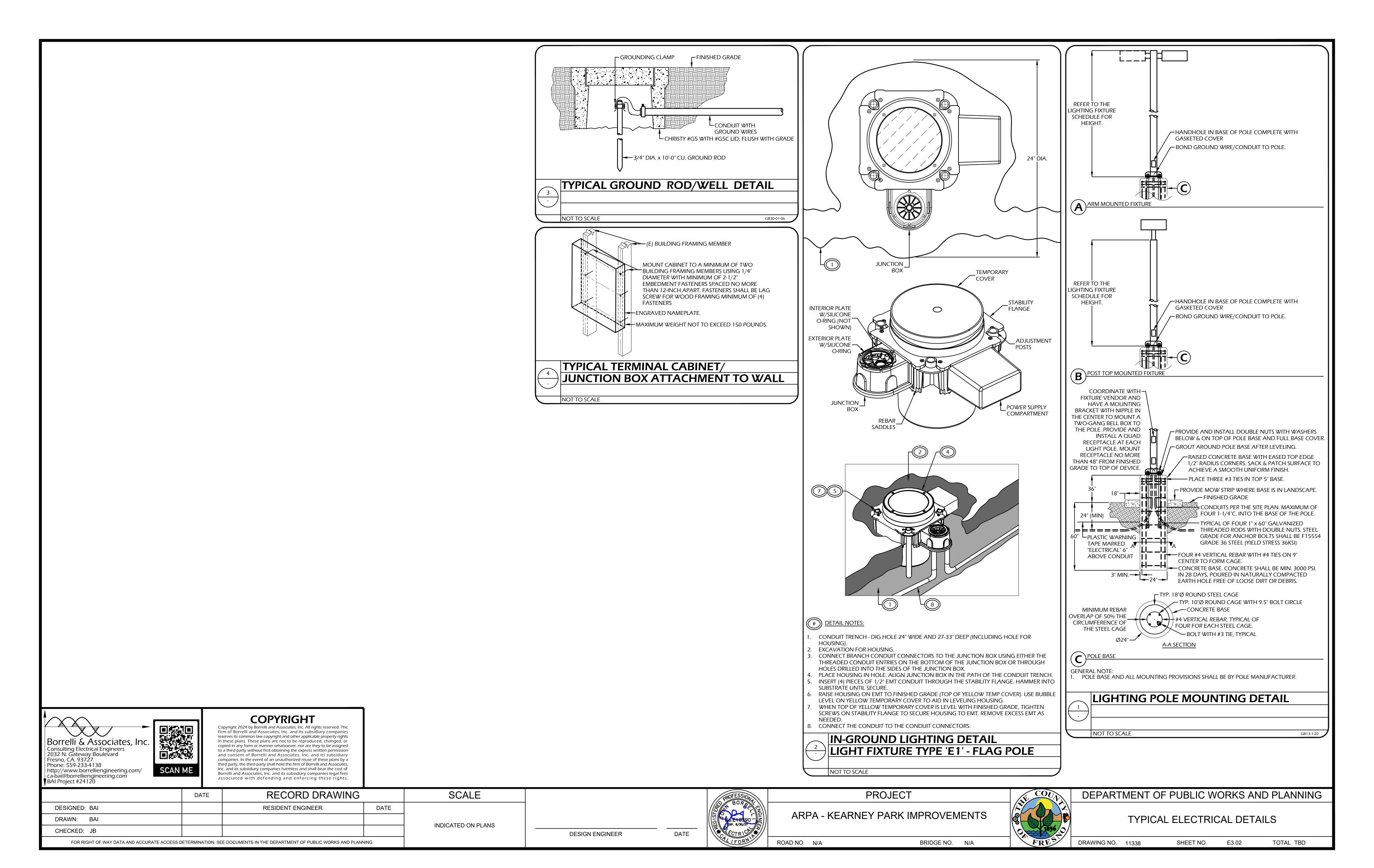
PHOTO REFERENCES

SHEET NO.

E2.04

TOTAL TBD





Electrical Power Dis				CALIFORNIA ENI		MISSION CC-ELC-E	Electrical Pov	wer Distributio	n					CALIF	ORNIA ENERGY COMM NR
Project Name: COUNTY OF UPGRADE	FRESNO KEARNEY PARK LIGH	ITING & POWER	Report Page:		(Pa	nge 3 of 4)							s in newly constructed non to electrical service system		tel/motel occupancies
			Date Prepared:	2024	4-06-24T17:34	4:28-04:00		lso use this documen					For multifamily addition o		
							Project Name: C	OUNTY OF FRESNO KEA			GRADE	Report Page:			(Pa
. VOLTAGE DROP	or complete replacement electric	al nower distribution system	as or alterations that add modifi	or replace both feeders and branch	o circuito to			725 WEST KEARNE	ey blvd, fri	ESNO, CA 93706		Date Prepared:			2024-06-24T17:3
emonstrate compliance with 13	30.5(c)/ 160.6(c). For alterations,	only the altered circuits mu	st demonstrate compliance per 14	11.0(b)2Piii/ 180.2(b)4Bviic.			A. GENERAL INFO		I			02 Climate Z	one	ı	13
01 Electrical Service	02 Combined Voltage Drop on		03 Location of Voltage Drop	04 Sheet Number for Voltage Drop	Field Ins		01 Project Lo	cation (city)	FR	RESNO			cy Types Within Project:	Al	Other Occupancies
Designation/Description	Circuit Conductors Co		Calculations ¹	Calculations in Construction Documents	Pass	Fail	B. PROJECT SCOR	PE							
(N) PNL 'W1-A'	Voltage drop less than	Permitted by CA Elec Code (Exception to	Contractor Responsible				This table includes 01	electrical systems th	nat are within a	the scope of the per 04	mit application	0.	06		07
(,	5%	130.5(c))* Permitted by CA Elec					01	02	03		System		00		07
(N) PNL 'P2'	5%	Code (Exception to 130.5(c))* Permitted by CA Elec	Contractor Responsible				Electrical Service Designation/ Description	Scope of Work ¹	Rating² (kVA)	Utility Provided Metering System Exception to 130.5(a)/	subject to CA Elec Code Article 517 Exception to	De	emand Response Controls		Provides power t units/common li only in multi
(N) PNL 'P3'	Voltage drop less than 5%	Code (Exception to 130.5(c))*	Contractor Responsible				Description			160.6(a) ³	130.5(a)and				occupan
		liance Method above, pleas		pplies in the space provided below.							(6)	• • • • • • • • • • • • • • • • • • •	mand response controls m	•	
	culations may be attached to the p be the responsibility of the installi			wed by the Authority Having Jurisdic	ction. Select '	'attached"		Add/Alt to feeders				least one standards	receiving and automaticall s based messaging protoco	ol which enables	
DECLARATION OF REQUIRE	ED CERTIFICATES OF INSTALLA	TION document. If any selection	have been changed by permit app	olicant, an explanation should be inc	cluded in Tabl	e E.	(N) PNL 'W1-A'	and branch circuits only				Sections 120.2/ 16 mechanical, indoc Compliance docum	after receiving a demand r 50.3, 130.1/ 160.5, and 130 or lighting, and sign lighting ents will indicate when de controls are required.	0.3/ 160.5, and g Certificate of emand response	
		Form,	/Title									which are capable of	mand response controls mreceiving and automaticall	ly responding to at	
CI-ELC-E - Must be submitted	l for all buildings							Add/Alt to feeders				least one standards	s based messaging protoco after receiving a demand r	ol which enables	
	ED CERTIFICATES OF ACCEPTAR	NCE					(N) PNL 'P2'	and branch circuits only				Sections 120.2/ 16	50.3, 130.1/ 160.5, and 130 or lighting, and sign lightin	0.3/ 160.5, and	
ere are no forms required for t	this project.											Compliance docum	ents will indicate when de controls are required.		
GRADE			Report Page: Date Prepared:	CALIFORNIA ENI	NR	CC-ELC-E age 4 of 4)	CERTIFICATE OF	cower Distribution Compliance COUNTY OF FRES		Y PARK LIGHTING	& POWER	Report Page: Date Prepared:		5. 111	A ENERGY COI NI (F 2024-06-24T17:
oject Address:	6/25 WEST KEARNEY BL	vd, fresno, ca 93706	vate Prepared:	2024	4-U6-24T17:34	4:Z8-U4:00						Date Prepared:			∠∪∠4-06-24T17:3
	S DECLARATION STATEMENT						B. PROJECT SCOP			+1					
cumentation Author Name:	of Compliance documentation	<u>.</u>	te. Documentation Author Signature:				i nis table includes	electrical systems th	iat are within	ine scope of the per	rnit application	Where required, de	mand response controls m	·	Τ
n Borrelli, PE			Signature Date:					Add/Alt to feeders				least one standards	receiving and automaticall s based messaging protoco	ol which enables	
relli and Associates, Inc.	2032 No	-	CEA/ HERS Certification Identification (if a	pplicable):			(N) PNL 'P3'	and branch circuits only				Sections 120.2/ 16	after receiving a demand r 50.3, 130.1/ 160.5, and 130	0.3/ 160.5, and	
/State/Zip: SPONSIBLE PERSON'S DECI	CLARATION STATEMENT	Fresno, CA 93727	Phone:									Compliance docum	or lighting, and sign lighting ents will indicate when de	_	
1. The information provided on	perjury, under the laws of the State of Cali n this Certificate of Compliance is true and	d correct.					¹ FOOTNOTES: Adding	g only new feeders and	branch circuits	triggers Voltage Drop	130.5(c)/160.6(controls are required. from 130.5/160.6 are require	d.	<u> </u>
 I am eligible under Division 3 The energy features and performance 	3 of the Business and Professions Code to rformance specifications, materials, comp	accept responsibility for the build		this Certificate of Compliance (responsible d identified on this Certificate of Compliance c		equirements	² If common use area	as in a multifamily are s	submetered, rat	ting is for submeter siz	e serving comm	•			
4. The building design features	of the California Code of Regulations. s or system design features identified on tl omitted to the enforcement agency for app			n other applicable compliance documents, v	worksheets, calcu	ulations,	C. COMPLIANCE		9 6			. , ,			
5. I will ensure that a complete	ed signed copy of this Certificate of Compl	liance shall be made available with cate of Compliance is required to b	n the building permit(s) issued for the buil- pe included with the documentation the b	ding, and made available to the enforcement uilder provides to the building owner at occu		pplicable	Results in this table	e are automatically c					f any cell on this table says	s "COMPLIES with E	xceptional Condit
ponsible Designer Name: npany:	Boi	John Borrelli, PE rrelli and Associates, Inc.	Responsible Designer Signature: Date Signed:				to Table D. Exception 01	onal Conditions for g	02 02	e applicable Table re 03	erericea belov	v. 04	05		06
dress: //State/Zip:		orth Gateway Boulevard Fresno, CA 93727	License:		(559) 2	E16390 233-4138	Service Electrica Metering 130.5(a		ration for ng 130.5(b)/	AND Voltage		Controlled Receptacles	Electric Ready 160.9		lian - D
·		= 3, = 3, = 1			(, / 2		160.6(a) (See Table F)	160	0.6(b) Table G)	130.5(c)/ 1 (See Tab	60.6(c)	130.5(d)/ 160.6(d) (See Table I)	(See Table J)	Comp	liance Results
							, , , , , , , , , , , , , , , , , , , ,	AND	•	AND Yes	AND			C	OMPLIES
							D. EXCEPTIONAL								
							This table is auto-f	filled with uneditable	comments be	ecause of selections	made or data e	entered in tables througi	hout the form.		
							E. ADDITIONAL F	REMARKS remarks made by th	ie nermit	icant to the Acids	hi Havina turb	diction			
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ED ON PLANS	DESIGN EN	GINEER	DATE DATE	0RN ROAD NO. N/			BRIDGE			1856 FD F S	DRAIA	/ING NO. 11338	POWER I SHEET NO.		TOTAL

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RESIDENT ENGINEER

RECORD DRAWING

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BAI Project #24120

DESIGNED: BAI

DRAWN: BAI

CHECKED: JB

SCAN ME

DATE

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

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

SCAN ME

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Outdoor Lighting CALIFORNIA ENERGY COMMISSION Report Page: (Page 3 of 12)

CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: COUNTY OF FRESNO KEARNEY PARK LIGHTING & POWER UPGRADE Date Prepared: 2025-05-29T11:39:25-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being nstalled and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	1	0
Name or Item	Complete Luminaire Description		Watts per	How is Wattage	Total Number	Luminaire	Excluded per 140.7(a) /	Design Watts	Cutoff Req. > 6,200 initial lumen output	Fie Inspe	
Tag	Somplete Lammane De	on paron	luminaire ^{1, 2}	determined	Luminaires ²	Status ³ 170.2(e)6A		Design water	130.2(b) / 160.5(c)1 ⁴	Pass	Fail
S1	5,986 LUMENS, POLE MOUNTED LED FIXTURE	☐ Linear	44	Mfr. Spec	11	New		484	NA: < 6200 lumens		
S2	(2) 5,986 LUMENS, POLE MOUNTED LED FIXTURE AT 90 DEGREES APART	☐ Linear	88	Mfr. Spec	4	New		352	NA: < 6200 lumens		
S3	(3) 6,019 LUMENS, POLE MOUNTED LED FIXTURE AT 90 DEGREES APART.	☐ Linear	132	Mfr. Spec	5	New		660	NA: < 6200 lumens		
S4	(2) 6,019 LUMENS, POLE MOUNTED LED FIXTURE AT 180 DEGREES APART	☐ Linear	88	Mfr. Spec	3	New		264	NA: < 6200 lumens		
S5	34,384 LUMENS, POLE MOUNTED LED FIXTURE	☐ Linear	249	Mfr. Spec	3	New	×	 2023	Provided		
S6	34,384 LUMENS, POLE MOUNTED LED FIXTURE	☐ Linear	249	Mfr. Spec	5	New	×		Provided		
E1	5,571 LUMENS (NOMINAL) LED FIXTURE FLOOR MOUNTED	☐ Linear	57	Mfr. Spec	3	New	×		NA: < 6200 lumens		

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Report Generated: 2025-05-29 08:39:29 Schema Version: rev 20220101

STATE OF CALIFORNIA

Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: COUNTY OF FRESNO KEARNEY PARK LIGHTING & POWER UPGRADE Report Page: (Page 4 of 12) Date Prepared: 2025-05-29T11:39:25-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being nstalled and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

Designed Watt	Designed Wattage:										
01	02		03	04	05	06	07	08	09	1	0
S7	(3) 6,019 LUMENS, POLE MOUNTED FLOOD LED FIXTURES	☐ Linear	132	Mfr. Spec	2	Existing Alteration		264	NA: < 6200 lumens		
S8	(2) 6,019 LUMENS, POLE MOUNTED FLOOD LED FIXTURES	☐ Linear	88	Mfr. Spec	1	Existing Alteration		88	NA: < 6200 lumens		
S9	34,384 LUMENS, POLE MOUNTED FLOOD LED FIXTURE	☐ Linear	249	Mfr. Spec	2	Existing Alteration	×		Provided		
S10	34,384 LUMENS, POLE MOUNTED FLOOD LED FIXTURE	☐ Linear	249	Mfr. Spec	1	Existing Alteration	×	-	Provided		
S11	6,019 LUMENS, POLE MOUNTED FLOOD LED FIXTURE	☐ Linear	44	Mfr. Spec	1	Existing Alteration		44	NA: < 6200 lumens		
S12	4,000 LUMEN, LED FIXTURE WET RATED. FIXTURES SHALL BE POST TOP MOUNTED	☐ Linear	40	Mfr. Spec	2	Existing Alteration		80	NA: < 6200 lumens		
S13	4,000 LUMEN, LED FIXTURE WET RATED. FIXTURES SHALL BE POST TOP MOUNTED	Linear	40	Mfr. Spec	2	New		80	NA: < 6200 lumens		
E2	4,000 LUMEN, LED FIXTURE WET RATED	☐ Linear	40	Mfr. Spec	3	Existing Alteration		120	NA: < 6200 lumens		
						Total	Design Watts:	2436			

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Documentation Software: Energy Code Ace

Report Version: 2022.0.000 Schema Version: rev 20220101

Compliance ID: 207381-0525-0010 Report Generated: 2025-05-29 08:39:29

ROAD NO. N/A

STATE OF CALIFORNIA

05 Occupancy Types within Project

All Other Occupancies

Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for onresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using

the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities. Project Name: COUNTY OF FRESNO KEARNEY PARK LIGHTING & POWER UPGRADE (Page 1 of 12) Project Address: 6725 WEST KEARNEY BLVD, FRESNO, CA 93706 Date Prepared: 2025-05-29T11:39:25-04:0

A. GENERAL INFORMATION 01 Project Location (city) FRESNO Total Illuminated Hardscape Area (ft²) 197486 02 Climate Zone 03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ): LZ-0: Very Low - Undeveloped Parkland 📗 🗖 LZ-2: Moderate - Urban Clusters LZ-4: High - Must be reviewed by CA Energy Commission for Approval LZ-1: Low - Rural Areas ☐ LZ-3: Moderately High - Urban Areas

B. PROJECT SCOPE This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of: ☐ New Lighting System Must Comply with Allowances from 140.7 / 170.2(e)6 Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Sum Total of Luminaires Being Added or Altered % of Existing Luminaires Being Altered¹ Calculation Method \square < 10% \square >= 10% and < 50% \square >= 50% Calculated Allowance per 140.7 / 170.2(e)6 ¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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STATE OF CALIFORNIA

Outdoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

Schema Version: rev 20220101

CERTIFICATE OF COMPLIANCE Project Name: COUNTY OF FRESNO KEARNEY PARK LIGHTING & POWER UPGRADE Report Page: (Page 2 of 12 Date Prepared: 2025-05-29T11:39:25-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer o Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv **Compliance Results** 01 08 09 Hardscape Ornamental Power Application Area **Total Allowed** 140.7(d)2/ Allowance Frontage **Total Actual** Allowance 140.7(d)2/ 140.7(d)2/ 07 must be >= 08 140.7(d)1/ 140.7(d)2 170.2(e)6 141.0(b)2L/ 170.2(e)6 170.2(e)6 170.2(e)6 (See Table K) (See Table L) 180.2(b)4Bv (See Table J) (See Table M) (See Table I) (See Table N) 4,143.99 4,143.99 COMPLIES **Shielding Compliance (See Table G for Details** COMPLIE Controls Compliance (See Table H for Details) COMPLIES

D. EXCEPTIONAL CONDITIONS his table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction. {General Remarks} Per cal green 5.106.8 BUG is exempt if light qualifies as exemption in section 130.2(b) and 140.7.However, I don't see the exception option for 140.7 when filling out the online forms. We only see the exceptions for 130.2(b). Therefore, in order to make the forms compliances because of BUG requirements, for light fixture type S5, S6, S9, and S10

we picked G1 for glare option. Also, light fixture type S14 shown on plans is just one S1 and one S6. Therefore, these are included as S1 and S6 in the wattage calculations and controls

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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	DATE	RECORD DRAWING		SCALE	PR	OFESSION A	PROJECT
DESIGNED: BAI		RESIDENT ENGINEER	DATE			DA CLEN	
DRAWN: BAI				INDICATED ON PLANS		6.E16390 - K	ARPA - KEARNEY PARK IMPROVEMENTS
CHECKED: JB				INDICATED ON PLANS	DESIGN ENGINEER DATE	ECTRICE *	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

DEPARTMENT OF PUBLIC WORKS AND PLANNING

OUTDOOR LIGHTING TITLE 24

TOTAL TBD DRAWING NO. 11338 SHEET NO. E4.02

STATE OF CALIFORNIA

	Data Duamanadi	2025 05 20711-20-25 04-00
Project Name: COUNTY OF FRESNO KEARNEY PARK LIGHTING & POWER UPGRADE	Report Page:	(Page 7 of 12)
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Outdoor Lighting		CALIFORNIA ENERGY COMMISSION

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by

Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	0	5	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector		
				Pass	Fail	
HARDSCAPE NEW ADDED LIGHTS: "S1"	Photocontrol	Provided	NA: >=24 ft			
HARDSCAPE NEW ADDED LIGHTS: "S2"	Photocontrol	Provided	NA: >=24 ft			
HARDSCAPE NEW ADDED LIGHTS: "S3"	Photocontrol	Provided	NA: >=24 ft			
HARDSCAPE NEW ADDED LIGHTS: "S4"	Photocontrol	Provided	NA: >=24 ft			
HARDSCAPE NEW ADDED LIGHTS: "S5"	Photocontrol	Provided	NA: >=24 ft			
HARDSCAPE NEW ADDED LIGHTS: "S6"	Photocontrol	Provided	Provided			
HARDSCAPE NEW ADDED LIGHTS: "E1"	Astronomical Timer	Provided	NA: Public Monument Lighting			
HARDSCAPE ALTERED LIGHTS: "S7"	Photocontrol	Provided	NA: >=24 ft			
HARDSCAPE ALTERED LIGHTS: "S8"	Photocontrol	Provided	NA: >=24 ft			
HARDSCAPE ALTERED LIGHTS: "S9"	Photocontrol	Provided	NA: >=24 ft			

Generated Date/Time:

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SCALE

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Outdoor Li	ghting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF	COMPLIANCE		NRCC-LTO-E
Project Name:	COUNTY OF FRESNO KEARNEY PARK LIGHTING & POWER UPGRADE	Report Page:	(Page 8 of 12)
		Date Prepared:	2025-05-29T11:39:25-04:00

H. OUTDOOR LIGHTING O	CONTROLS			
HARDSCAPE ALTERED LIGHTS: "S10"	Photocontrol	Provided	Provided	
HARDSCAPE ALTERED LIGHTS: "S11"	Photocontrol	Provided	NA: >=24 ft	
HARDSCAPE ALTERED LIGHTS: "S12"	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	
HARDSCAPE ALTERED LIGHTS: "S13"	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	
HARDSCAPE ALTERED LIGHTS: "E2"	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	

¹FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

³Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

²Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.

STATE OF CALIFORNIA

Outdoor Li	ighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF	COMPLIANCE		NRCC-LTO-E
Project Name:	COUNTY OF FRESNO KEARNEY PARK LIGHTING & POWER UPGRADE	Report Page:	(Page 5 of 12)
		Date Prepared:	2025-05-29T11·39·25-04·00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

Designed Watt	age:								
01	02	03	04	05	06	07	08	09	10
* NOTES: Selection	ons with a * require a note in the space below expla	aining how compl	iance is achieved						

EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

 1 FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

- ² For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
- ³ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
- ⁴ Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

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STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: COUNTY OF FRESNO KEARNEY PARK LIGHTING & POWER UPGRADE Report Page: (Page 6 of 12 Date Prepared: 2025-05-29T11:39:25-04:00

G. SHIELDING REQUIREMENTS (BUG) This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24. Part 11. Section

01	02	03	04	05	06	07	08	09	10	11	1	2
		Backlight Rating ²			Uplight Rating ²			Glare Rating (Lumens) ²			Field Inspector	
Name or Item Tag	Complete Luminaire Description	Mounting Height ¹	Max Allowable Backlight Rating ³	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating ³	Uplight Rating Per Design	Mounting Height ¹	Max Allowable Glare Rating ³	Glare Rating Per Design	Pass	Fail
S5	34,384 LUMENS, POLE MOUNTED LED FIXTURE	2 MH from property line	No Limit	B3	Area Lighting	U0	U0	> 2 MH from property line	G1	G1		
S6	34,384 LUMENS, POLE MOUNTED LED FIXTURE	2 MH from property line	No Limit	В3	Area Lighting	U0	U0	> 2 MH from property line	G1	G1		
S9	34,384 LUMENS, POLE MOUNTED FLOOD LED FIXTURE	2 MH from property line	No Limit	В3	Area Lighting	U0	U0	> 2 MH from property line	G1	G1		
S10	34,384 LUMENS, POLE MOUNTED FLOOD LED FIXTURE	2 MH from property line	No Limit	B3	Area Lighting	U0	UO	> 2 MH from property line	G1	G1		

¹FOOTNOTES: Mounting Height is labeled MH in this table.

² Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b)/ 160.5(c)

³ BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.

Borrelli & Associates, Inc Consulting Electrical Engineers 2032 N. Gateway Boulevard Fresno, CA. 93727 Phone: 559-233-4138 SCAN ME

http://www.borrelliengineering.com/ ca-bai@borrelliengineering.com

BAI Project #24120

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Report Version: 2022.0.000 Schema Version: rev 20220101

Compliance ID: 207381-0525-0010 Report Generated: 2025-05-29 08:39:29

RECORD DRAWING RESIDENT ENGINEER

DATE DESIGNED: BAI DRAWN: BAI CHECKED: JB FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING. INDICATED ON PLANS DESIGN ENGINEER DATE



ARPA - KEARNEY PARK IMPROVEMENTS

PROJECT

ROAD NO. N/A BRIDGE NO. N/A

DEPARTMENT OF PUBLIC WORKS AND PLANNING **OUTDOOR LIGHTING TITLE 24**

DRAWING NO. 11338 SHEET NO. TOTAL TBD E4.03

STATE OF CALIFORNIA Outdoor Lighting

CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: COUNTY OF FRESNO KEARNEY PARK LIGHTING & POWER UPGRADE Report Page: (Page 11 of 12) 2025-05-29T11:39:25-04:00 Date Prepared:

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
Form/Title NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	
	HARDSCAPE ALTERED LIGHTS: "S11"; HARDSCAPE ALTERED LIGHTS: "S12"; HARDSCAPE ALTERED LIGHTS: "S13"; HARDSCAPE ALTERED LIGHTS: "E2"

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101

Compliance ID: 207381-0525-0010 Report Generated: 2025-05-29 08:39:29

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF C	OMPLIANCE		NRCC-LTO-E
Project Name:	COUNTY OF FRESNO KEARNEY PARK LIGHTING & POWER UPGRADE	Report Page:	(Page 12 of 12)
Project Address:	6725 WEST KEARNEY BLVD, FRESNO, CA 93706	Date Prepared:	2025-05-29T11:39:25-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete. Occumentation Author Name: ocumentation Author Signature: John Borrelli, PE Borrelli and Associates, Inc. 2032 North Gateway Boulevard CEA/ HERS Certification Identification (if applicable) Fresno, CA 93727 Phone: City/State/Zip:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

STATE OF CALIFORNIA

Outdoor Lighting

certify the following under penalty of perjury, under the laws of the State of California:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

SCALE

INDICATED ON PLANS

- 1. The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirement
- of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations,
- plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. John Borrelli, PE Responsible Designer Signature:

esponsible Designer Name:

Borrelli and Associates, Inc. Date Signed: 2032 North Gateway Boulevard License: Fresno, CA 9372

STATE OF CALIFORNIA

Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: COUNTY OF FRESNO KEARNEY PARK LIGHTING & POWER UPGRADE Report Page: (Page 9 of 12 Date Prepared: 2025-05-29T11:39:25-04:00

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170	0.2(e))							
This table includes areas using allowance calculations p		01						
Hardscape Allowance is per Table 140.7-A/Table 170.2-			"Use it or lose it" Allowance (select all that apply) (select all that apply)					
Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.			General Hardscape Allowance Table I (below)	Per Application Table J Sales Frontage Table K		☐ Ornamental Table L	□ Per Specific Area Table M	
Calculated General Hardscape Lighting Power Allowand	e per Table 140.7-	A for Nonresidenti	al & Hotel/Motel					
02	03	04	05	06 07		08	09	
	Area V	Vattage Allowance	(AWA)	Linea	ar Wattage Allowand	ce (LWA)	Total General	
Area Description	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Leng (If)	th Allowed Density (W/lf)	Linear Allowance (Watts)	AWA + LWA (Watts)	
HARDSCAPE NEW ADDED LIGHTS	158421	0.016	2534.74	5293	0.13	688.09	3222.83	
HARDSCAPE ALTERED LIGHTS	39015	624.24	2284	0.13	296.92	921.16		
Initial Wattage Allowance for Entire Site (Watts):								
Instances of Initial Wattage Allowance (LZ 0 only) ¹								

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

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Total General Hardscape Allowance (Watts): 4143.99

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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STATE OF CALIFORNIA

Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: COUNTY OF FRESNO KEARNEY PARK LIGHTING & POWER UPGRADE Report Page: (Page 10 of 12 Date Prepared: 2025-05-29T11:39:25-04:00

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCI-LTO-E - Must be submitted for all buildings

Borrelli & Associates, Inc Consulting Electrical Engineers 2032 N. Gateway Boulevard Fresno, CA. 93727 Phone: 559-233-4138

http://www.borrelliengineering.com/ ca-bai@borrelliengineering.com



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E16390 (559) 233-4138

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Documentation Software: Energy Code Ace

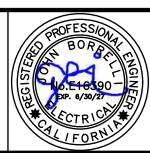
Report Version: 2022.0.000 Schema Version: rev 20220101

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BAI Project #24120 RECORD DRAWING DATE RESIDENT ENGINEER DESIGNED: BAI DATE DRAWN: BAI CHECKED: JB FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

DATE

DESIGN ENGINEER



PROJECT

ARPA - KEARNEY PARK IMPROVEMENTS

ROAD NO. N/A BRIDGE NO. N/A



DEPARTMENT OF PUBLIC WORKS AND PLANNING

OUTDOOR LIGHTING TITLE 24

DRAWING NO. 11338 SHEET NO. TOTAL TBD E4.04