## **IMPROVEMENT PLANS**

# INTERIM HOUSING SHELTER SOLUTIONS PROJECT

HOPPER STREET

900 HOPPER STREET **CALIFORNIA PETALUMA** 

SITE DIAGRAM

SCALE: 1" = 40

#### **CONSULTANTS**

STEVEN J. LAFRANCHI & ASSOCIATES, INC. CIVIL ENGINEER STEVEN LAFRANCHI 140 SECOND STREET, SUITE 312 LAND SURVEYOR PETALUMA, CALIFORNÍA 94952 LANDSCAPE 707.762.3122 VOICE ARCHITECT

ARCHITECT

12 WESTERN AVENUE, SUITE 2 PETALUMA, CALIFORNIA 94952 707.765.9222 VOICE

DRY UTILITIES P.O. BOX 3103

ROHNERT PARK, CA 94927 707.799.6822 VOICE courtney.chuenyane@brokawdesign.com

**REVISION LOG** 

2021.11.05 ADDENDA 1
CLARIFICATION & ADJUST FOR COP COMMENTS

ABBREVIATIONS				
AC	ASPHALT CONCRETE	PVC	POLYVINYL CHLORIDE PIPE	
APN	ASSESSOR'S PARCEL NUMBER	R.C.E.	REGISTERED CIVIL ENGINEER	
BC	BEGINNING OF CURVE	SF	SQUARE FEET	
СВ	CATCH BASIN	SD	STORM DRAIN	
CL, C/L	CENTERLINE	SDMH	STORM DRAIN MANHOLE	
COP	CITY OF PETALUMA	SDR	STANDARD DIMENSION RATIO	
EG	EXITING GROUND	SDR	STANDARD DIMENSION RATIO	
DI	DROP INLET	SS	SANITARY SEWER	
FC	FACE OF CURVE	SSCO	SANITARY SEWER CLEAN OUT	
FG	FINISH GRADE	SSMH	SANITARY SEWER MANHOLE	
FH	FIRE HYDRANT	TC	TOP OF CURB	
GV	GATE VALVE	W, WTR	WATER	
HP	HIGH POINT	WM	WATER METER	10 1 13 16 17 17 20 21 17 23 24
INV, IG	INVERT GRADE	WV	WATER VALVE	
JT	JOINT TRENCH			
LF	LINEAL FOOT			
SHEET INDEX				EX. TANK

#### CIVIL LAYOUTS

COVER SHEET GENERAL NOTES

KEYMAP PLAN

DEMO PLAN

GRADING DETAIL 1

GRADING DETAIL 2

UTILITY PLAN

UNIT CONTEXT PLAN

C-10 FENCING PLAN LAYOUT ADDED

#### ARCHITECTURAL LAYOUTS

ARCHITECTURAL SITE PLAN

ARCHITECTURAL DETAILS

#### ELECTRICAL LAYOUTS

ELECTRICAL LEGEND AND ABBREVIATIONS

ELECTRICAL SHEET SPECIFICATION

SITE ELECTRICAL PLAN

PHOTOMETRIC CALCULATIONS

ELECTRICAL PLAN UNITS 1-9, RESTROOM

ELECTRICAL PLAN UNITS 10-25

ELECTRICAL DETAILS

ELECTRICAL DETAILS

DIAGRAMS ELECTRICAL SITE

SCHEDULES

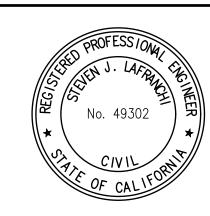
#### **OWNER / APPLICANT**

PROJECT MANAGER, JOSH MINSHALL, SENIOR CIVIL ENGINEER 202 N. McDOWELL BLVD, PETALUMA, CA 94954 jminshall@cityofpetaluma.org

### **LEGEND**

LE	GEND	
EXISTING	PROPOSED	
·	·-	(E) CHAINLINK FENCE - PRIVACY SLATS TO BE ADDED
	<del></del>	NEW CHAINLINK FENCE WITH PRIVACY SLATS
		PROPERTY LINE/RW
		EASEMENT LINE
		CONCRETE
AND THE RESERVE THE PROPERTY OF THE PROPERTY O		CURB & GUTTER
		EDGE OF PAVEMENT
		ASPHALT CONCRETE
		ASPHALT / CONCRETE TO BE REMOVED
		PATIO
		ADA WALKWAY
SS	SS	SANITARY SEWER/CLEANOUT
<u>(SS)</u>		SANITARY SEWER MANHOLE
Ю	⊢●	GATE VALVE
HOH		FIRE HYDRANT
W	W	WATER LINE
		WATER METER
		DROP INLET/STORM DRAIN
	JT	JOINT TRENCH
	<b>←</b>	SURFACE FLOW
	<del></del>	6" ASPHALT DIKE

PROJECT NO. H00202500



SHEET

**C-1** 

1 of 24

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SCALE: AS SHOWN

- ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE CITY OF PETALUMA STANDARD DETAILS AND SPECIFICATIONS
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE BEST INFORMATION AVAILABLE. THE CITY OF PETALUMA AND THE ENGINEER ASSUME NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION SHOWN, OR FOR THE INADVERTENT OMISSION OF ANY SUCH INFORMATION.
- THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY COMPANIES AND OTHER CONTRACTORS WORKING WITHIN THE LIMITS OF THIS PROJECT.
- 4. THE CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL
- WATER MAIN SHALL BE DUCTILE IRON, C151, CLASS 50 MINIMUM OR PVC C900, CLASS 200
- SEWER MAIN SHALL BE PVC SDR-35. SEWER SERVICE LATERAL SHALL BE SAME MATERIAL AS SEWER MAIN.
- ALL EXCESS TRENCH SPOILS SHALL BE REMOVED FROM THE SITE.

SAFETY PRIOR TO EXCAVATION OF ANY TRENCH OVER 5 FT. IN DEPTH.

- PRIOR TO INSTALLATION OF SANITARY SEWER, STORM DRAIN AND WATER, THE CONTRACTOR SHALL UNCOVER AND VERIFY THE LOCATION, SIZE AND DEPTH OF WHERE THESE LINES CONNECT TO THE EXISTING SYSTEMS AND AT ALL CROSSINGS.
- 10. ANY DISCREPANCY DISCOVERED IN THESE PLANS OR ANY FIELD CONDITIONS DISCOVERED THAT MAY INHIBIT THE PROPER COMPLETION OF THE WORK PER THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY UPON DISCOVERY.
- 11. CONSTRUCTION CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD FNGINFFR. OWNER. AND CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF ENGINEER, OWNER, AND CITY.
- 12. LINEAL DIMENSIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE. BASED ON RECORD INFORMATION. CONTRACTOR SHALL INSTALL THE PIPES AS SHOWN, ASSUMING RESPONSIBILITY FOR DETERMINING THE ACTUAL MATERIAL QUANTITIES NEEDED TO COMPLETE THE WORK.
- 13. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITY COMPANIES 48 HOURS PRIOR TO ANY EXCAVATION SO THAT THEIR LINES CAN BE MARKED.
- 14. THE ENGINEER AND CITY ACCEPT NO LIABILITY FOR THE EXISTENCE OR NONEXISTENCE OF UTILITIES. CONTRACTOR AND OTHERS USING THIS DRAWING MUST CONFIRM THE LOCATION OF UNDERGROUND LINES OR STRUCTURES WITH THE UTILITY COMPANIES PRIOR TO COMMENCING CONSTRUCTION. CONTACT USA 800-227-2600 FOR MARKING OF UTILITY LINES.
- 15. CONTRACTOR SHALL PROVIDE TEMPORARY SAFETY BARRICADES AND OTHER PRECAUTIONS FOR PUBLIC SAFETY DURING CONSTRUCTION AS REQUIRED BY THE CITY OF PETALUMA.
- 16. THE CITY INSPECTOR SHALL BE GIVEN 48 HOURS ADVANCE NOTICE OF ANY CONSTRUCTION.
- 17. ALL TRENCHES OR HOLE OPENINGS SHALL BE PROTECTED AGAINST CAVE-IN EITHER BY SUITABLE SHORING, CAGES OR PROPER SLOPING.
- 18. ALL WORK AND EQUIPMENT SHALL COMPLY WITH THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY REQUIREMENTS.
- 19. VARIANCES FROM CITY OF PETALUMA STANDARDS OR FROM THESE PLANS REQUIRE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
- 20. ALL NEW STREET CONSTRUCTION, SEWER, WATER AND STORM DRAIN CONSTRUCTION AND OTHER PUBLIC IMPROVEMENTS SHALL BE ACCURATELY LOCATED BY THE CONTRACTOR AND SHOWN UPON THE CONSTRUCTION PLANS. ONE SET OF "AS-BUILT" CONSTRUCTION PLANS SHALL BE RETURNED TO THE DEPARTMENT OF PUBLIC WORKS PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENTS.
- 21. IF A STREET HAS BEEN CUT TO INSTALL UTILITIES OR TO MATCH EXISTING PAVEMENT, THE STREET SHALL BE SLURRY SEALED IN ACCORD WITH STANDARD SPECIFICATIONS OF THE STATE OF CALIF. SECTION 37-2. THE EXTENT OF AREA TO BE SEALED SHALL BE DETERMINED BY THE CITY
- 22. AN ENCROACHMENT PERMIT SHALL BE REQUIRED FOR ALL WORK WITHIN PUBLIC RIGHT OF WAY.
- 23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF EXISTING CONDITIONS INCLUDING, BUT NOT LIMITED TO SURFACING, LANDSCAPING AND UTILITIES, DUE TO THE CONSTRUCTION OF TRENCHES. RESTORATION SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF A COMPLETION NOTICE UNLESS OTHERWISE SPECIFICALLY APPROVED IN ADVANCE BY THE CITY OF

#### **GENERAL NOTES**

- THE PROJECT ENGINEER SHALL HAVE A 48 HOUR NOTICE FOR ANY REQUIRED INSPECTIONS.
- UNAUTHORIZED CHANGES AND USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF
- THE CONTRACTOR SHALL BE CHARGED FOR THE COST OF ALL LABORATORY AND FIELD TESTS WHERE TEST RESULTS DO NOT MEET SPECIFICATIONS.
- ROUTES OF INGRESS TO AND EGRESS FROM PROJECT SITE FOR ALL HEAVY CONSTRUCTION VEHICLES SHALL BE FROM CASA GRANDE ROAD AND SHALL BE APPROVED BY THE CITY OF
- THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE BEST AVAILABLE INFORMATION, HOWEVER, THE CITY OF PETALUMA, SONOMA COUNTY WATER AGENCY AND THE DESIGN ENGINEER ASSUME NO RESPONSIBILITY FOR THE INADVERTENT OMISSION OF ANY SUCH INFORMATION.
- CONTRACTOR SHALL REPLACE AND REPAIR, AT HIS OWN EXPENSE, DAMAGED, REMOVED OR OTHERWISE DISTURBED EXISTING IMPROVEMENTS.
- ALL UNUSABLE EXCESS SOIL MATERIAL, STUMPS AND BOULDERS SHALL BE REMOVED AND DISPOSED OFF THE PROJECT SITE.
- GRADING MUST BE CERTIFIED WHEN COMPLETED BY A CIVIL ENGINEER TO INDICATE COMPLIANCE WITH APPROVED PLANS AND WILL BE REQUIRED PRIOR TO OCCUPANCY.
- BENCHMARK: TOP OF 2" BRASS DISC & PUNCH IN MONUMENT WELL IN CENTER OF SONOMA MOUNTAIN

PARKWAY ROUNDABOUT, ELEVATION = 42.57 NAVD 1988.

J. LAFRANCHI & ASSOCIATES, INC. ON SEPTEMBER 30, 2021.

- 10. THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN, ARE THE SOLE PROPERTY OF STEVEN J. LAFRANCHI and ASSOCIATES. UNAUTHORIZED USE, COPYING, DISCLOSURE OR PUBLICATION BY ANY METHOD IS PROHIBITED WITHOUT THE WRITTEN APPROVAL OF STEVEN J. LAFRANCHI and ASSOCIATES. STEVEN J. LAFRANCHI and ASSOCIATES TAKES NO RESPONSIBILITY FOR ANY
- UNAUTHORIZED DUPLICATION OF INFORMATION THAT MAY APPEAR ON ANOTHER PLAN OR MAP. 11. FIVE HOURS MAXIMUM SHUTDOWN TIME OF EXISTING MAINS WHILE MAKING CONNECTIONS. TWENTY-FOUR (24) HOUR NOTICE OF SHUTDOWN TO BE GIVEN BY SUBDIVIDER TO ALL WATER
- CUSTOMERS. EXISTING VALVES TO BE OPERATED BY CITY WATER DEPARTMENT PERSONNEL ONLY. 12. WATER SERVICES SHALL BE PLACED OVER THE TOP OF THE UNDERGROUND JOINT TRENCH UTILITIES. WATER SERVICES SHALL NOT BE WITHIN CURB CUTS FOR DRIVEWAYS.

#### **SURVEY NOTES**

- TOPOGRAPHIC INFORMATION SHOWN HERE IS BASED UPON A FIELD SURVEY PERFORMED BY STEVEN
- VERTICAL DATUM: NGVD29, BASED ON AERIAL MAPPING PREPARED BY TOWILL, INC. AND IS BASED ON THE CONTROL NETWORK PREPARED BY DAVID L. CRAMER, P.L.S. A LOCAL JOB BENCHMARK HAS BEEN ESTABLISHED ON SITE, BEING A MAG NAIL & WASHER, STAMPED "SJLA CONTROL" AT EDGE OF EXISTING ASPHALT PARALLEL TO SMART RAIL TRACKS. ELEVATION=9.28'. NGVD29 DATUM.
- HORIZONTAL DATUM: RECORD OF SURVEY, FILED IN BOOK 600 OF MAPS, AT PAGE 32, SONOMA
- 4. NO TITLE REPORT WAS REVIEWED IN CONJUNCTION WITH THIS MAPPING. IT IS RECOMMENDED THAT A TITLE REPORT BE RECEIVED FROM THE OWNER TO VERIFY THE EXISTENCE OF ANY ADDITIONAL EASEMENTS OF RECORD OR LOT LINE ADJUSTMENTS THAT MAY HAVE ALTERED THE INFORMATION SHOWN HEREON PRIOR TO ANY DESIGN AND/OR CONSTRUCTION.
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#### **GENERAL NOTES (CON'T):**

- 13. ALL WATER MAINS, WATER SERVICES AND SEWER LATERALS REQUIRING RELOCATION SHALL BE ACCURATELY LOCATED BY THE SUBDIVIDER'S CONTRACTOR AND SHOWN UPON THE CONSTRUCTION PLANS. ONE SET OF "DRAWING OF RECORD" PLANS SO MARKED AND CERTIFIED AS TO ACCURACY AND COMPLETENESS BY THE SUBDIVIDER'S CONTRACTOR SHALL BE RETURNED TO THE CITY ENGINEER BY THE SUBDIVIDER.
- 14. WHERE UTILITIES CROSS UNDER CURBS, THE SUBDIVIDER'S CONCRETE CONTRACTOR SHALL STAMP THE LETTER 'S' ON THE FACE OF CURB DIRECTLY ABOVE THE SEWER LATERAL, 'W' ON THE FACE OF CURB DIRECTLY ABOVE THE WATER SERVICES AND 'B' ON THE FACE OF CURB ABOVE A BLOWOFF OR AIR RELIEF VALVE. LETTERS SHALL BE NEAT, CLEAR AND 4" HIGH.
- 15. GRADE BREAKS ON CURBS AND SIDEWALKS TO BE ROUNDED OFF IN FORM WORK AND FINISHED SURFACING.
- 16. INSTALL SIGNING AND STRIPING TO CONFORM TO THE CURRENT EDITION OF THE CALTRANS TRAFFIC MANUAL.
- 17. TREES TO REMAIN SHALL BE PROTECTED FROM DAMAGE INCIDENT TO SITE PREPARATION AND CONSTRUCTION OPERATIONS BY THE ERECTION OF BARRIERS AT THE DRIP LINE OF SAID TREES. (SEE ARBORIST REPORTS)
- IT IS THE OWNERS RESPONSIBILITY TO MAKE THESE PLANS AVAILABLE TO ANY DESIGN CONSULTANTS WHO MAY PREPARE ANY ADDITIONAL PLANS (BUILDING, FOUNDATION, ETC.) OR REPORTS WITHIN THE LIMITS OF THIS DESIGN. STEVEN J. LAFRANCHI & ASSOCIATES TAKES NO RESPONSIBILITY FOR CONFLICTS THAT MAY ARISE DUE TO PLANS NOT BEING PROVIDED TO SAID CONSULTANTS. IT IS THE OWNERS AND ALL DESIGN CONSULTANTS RESPONSIBILITY TO CONTACT STEVEN J. LAFRANCHI & ASSOCIATES IF ANY ADDITIONAL PLAN OR REPORT IS PREPARED IN CONJUNCTION WITH THIS PROJECT.
- ALL CONTRACTORS SHALL BE PROVIDED A COMPLETE SET OF PLANS THAT INCLUDES ALL DRAWINGS AND REPORTS PREPARED BY ALL CONSULTANTS FOR THIS PROJECT FOR THE PURPOSE OF BIDDING AND CONSTRUCTION.
- STEVEN J. LAFRANCHI & ASSOCIATES, INC. DOES NOT SPECIFY NOR RECOMMEND THE USE OR INSTALLATION OF ANY MATERIAL OR EQUIPMENT WHICH IS MADE FROM, OR WHICH CONTAINS ASBESTOS FOR USE IN THE CONSTRUCTION OF THESE IMPROVEMENTS. ANY PARTY INSTALLING OR USING SUCH MATERIALS OR EQUIPMENT SHALL BE SOLELY RESPONSIBLE FOR ALL INJURIES, DAMAGES. OR LIABILITIES OF ANY KIND. CAUSED BY THE USE OF SUCH MATERIALS OR EQUIPMENT. THE PROVISIONS OF THIS NOTE SHALL APPLY UNLESS THEY ARE EXPRESSLY WAIVED IN WRITING BY STEVEN J. LAFRANCHI & ASSOCIATES, INC. CONTRACTOR SHALL COMPLY FULLY WITH THE REQUIREMENTS OF ASSEMBLY BILL (2040) DAVIS, ASBESTOS.
- 21. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT STEVEN J. LAFRANCHI & ASSOCIATES, INC. AT (707)762-3122 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- 23. THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXEMPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.
- 24. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING. BRACING AND SHEETING. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, AND/OR STRUCTURE IS FIVE FEET OR MORE IN DEPTH. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING, SHORING AND BRACING OR EQUIVALENT METHOD, FOR THE PROTECTION OF LIFE, OR LIMB, WHICH SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA, THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS FOR PRIVATE PROPERTY ADJACENT TO WORK THROUGHOUT THE PERIOD OF CONSTRUCTION. THE PROJECT ENGINEER SHALL HAVE TWENTY-FOUR (24) HOUR NOTICE FOR ANY REQUIRED INSPECTIONS. THE CONTRACTOR SHALL CONFIRM THE APPROVAL OF THE HAUL ROUTE FOR ALL MATERIALS TO AND FROM THE PROJECT WITH THE CITY ENGINEER PRIOR TO ISSUANCE OF AN ENCROACHMENT
- 26. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY.
- 27. ANY EXTRA CONSTRUCTION STAKING NECESSITATED SOLELY BY THE CONTRACTOR'S NEGLIGENCE WILL BE CHARGED TO THE CONTRACTOR ON A TIME AND EXPENSES BASIS AND PAID FOR BY THE CONTRACTOR.
- 28. ALL RETURN RADII AND CURB DATA ARE TO FACE OF CURB.
- 29. ALL QUANTITIES AND PAY ITEMS ARE AND WILL BE BASED ON HORIZONTAL MEASUREMENTS.
- 30. LENGTHS OF SANITARY SEWERS AND STORM DRAINS ARE HORIZONTAL DISTANCES FROM THE CENTER TO CENTER OF STRUCTURES, ROUNDED OFF TO THE NEAREST FOOT.
- 31. THE CONSTRUCTION OF ALL GRAVITY UNDERGROUND LINES (SANITARY SEWERS AND STORM DRAINS) SHALL BEGIN AT THE MOST DOWNSTREAM END, UNLESS OTHERWISE SPECIFICALLY APPROVED BY STEVEN J. LAFRANCHI & ASSOCIATES, INC.

#### **GRADING**

- THE CONTRACTOR SHALL ENLIST THE SERVICES OF A REGISTERED GEOTECHNICAL ENGINEER TO PROVIDE INTERMITTENT SITE OBSERVATIONS AND TESTING BY A QUALIFIED TECHNICIAN AND, UPON SATISFACTORY COMPLETION OF THE GRADING, A WRITTEN REPORT SUMMARIZING THE RESULTS OF THESE OBSERVATIONS AND TESTS ALONG WITH "PROFESSIONAL OPINIONS" AS TO THE ADEQUACY OF THE WORK PERFORMED BY THE CONTRACTOR.
- CUT SLOPES SHALL BE EQUAL TO OR LESS THAN 2:1 WITH A GEOTECHNICAL ENGINEER'S WRITTEN PERMISSION, WEATHERED ROCK CUTS MAY BE STEEPENED. FILL SLOPES SHALL BE EQUAL TO OR LESS THAN 2:1.
- ALL EXCESS SOIL MATERIAL, STUMPS AND BOULDERS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ANY ENVIRONMENTAL REGULATIONS AND PERMIT RESOURCE MANAGEMENT DEPARTMENT GRADING ORDINANCE AS THEY MAY APPLY.
- 4. IF CONSTRUCTION IS PERFORMED EARLIER THAN MAY 1 OR LATER THAN OCTOBER 1 IN ANY GIVEN YEAR, AN APPROVED SILTATION CONTROL PLAN, DESIGNED BY A CIVIL ENGINEER OR APPROVED, COMPETENT INDIVIDUAL IS REQUIRED.
- PFRFORM GRADING IN ACCORDANCE WITH THE LATEST EDITION OF APPENDIX CHAPTER 33 OF THE CALIFORNIA BUILDING CODE AND APPLICABLE SONOMA COUNTY REGULATIONS.
- EXISTING DRAINAGE COURSES RECEIVING WATERS FROM THIS SITE AND LOCATED THROUGHOUT THIS SITE SHALL REMAIN OPEN AND CLEAR OF DEBRIS TO PROPERLY CONVEY STORM WATER. IN ANY EVENT, THE OWNER AND/OR CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO OBSTRUCTING NATURAL DRAINAGE PATTERNS.
- RETAINING WALLS ARE NOT APPROVED UNDER THIS GRADING PERMIT. RETAINING WALLS REQUIRE A SEPARATE BUILDING PERMIT, UNLESS EXEMPT.
- 8. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER UPON DISCOVERING SIGNIFICANT DISCREPANCIES, ERRORS OR OMISSIONS IN THE PLANS. PRIOR TO PROCEEDING, THE OWNER SHALL HAVE THE PLANS REVISED TO CLARIFY IDENTIFIED DISCREPANCIES, ERRORS OR OMISSIONS. THE REVISED PLANS SHALL BE SUBJECT TO REVIEW BY THE CHIEF BUILDING OFFICIAL.
- 9. IN THE EVENT CULTURAL RESOURCES (I.E., HISTORICAL, ARCHAEOLOGICAL, AND PALEONTOLOGICAL RESOURCES, AND HUMAN REMAINS) ARE DISCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL BE HALTED WITHIN A 100 FOOT RADIUS OF THE FIND. THE NORTHWEST INFORMATION CENTER SHALL NOTIFIED AT (707) 664-0880. A QUALIFIED ARCHEOLOGIST SHALL BE CONSULTED FOR AN ON-SITE EVALUATION. ADDITIONAL MITIGATION MAY BE REQUIRED BY THE COUNTY PER THE ARCHEOLOGIST'S RECOMMENDATIONS. IF HUMAN BURIALS OR HUMAN REMAINS ARE ENCOUNTERED, THE CONTRACTOR SHALL ALSO NOTIFY THE COUNTY CORONER AT (707)
- 10. SHOULD GRADING OPERATIONS ENCOUNTER HAZARDOUS MATERIALS, OR WHAT APPEAR TO BE HAZARDOUS MATERIALS, STOP WORK IN THE AFFECTED AREA IMMEDIATELY AND CONTACT 911 OR THE APPROPRIATE AGENCY FOR FURTHER INSTRUCTION.
- 11. THE GRADING PERMIT AND AN APPROVED COPY OF THE GRADING PLANS SHALL BE MAINTAINED ON THE PROJECT SITE THROUGHOUT THE DURATION OF CONSTRUCTION
- 12. DRAINAGE FACILITIES AND GRADING SHALL BE INSPECTED BEFORE RECEIVING FINAL APPROVAL. THE CONTRACTOR SHALL CONSULT THE REQUIRED INSPECTIONS NOTES FOR COORDINATION OF INSPECTION REQUESTS.
- 13. TESTING FOR RELATIVE DENSITIES SHALL BE IN ACCORDANCE WITH CALTRANS TEST METHOD NO. 216 PART II OR ASTM 1557. THE USE OF SAND CONE METHODS SUCH AS ASTM 1556 OR CALTRANS 216, PART I - SHALL NOT BE ALLOWED.
- 14. PLACEMENT OF MAILBOXES MUST BE COORDINATED WITH AND APPROVED BY THE LOCAL BRANCH OF THE UNITED STATES POST OFFICE.
- 15. GRADING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL INVESTIGATION PREPARED BY PJC AND ASSOCIATES, INC., JOB No. 9158.01 DATED SEPTEMBER 27, 2019. THE GEOTECHNICAL RECOMMENDATIONS CONTAINED IN THE REPORT, LETTER AND MEMO ARE BY REFERENCE INCORPORATED IN THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THE GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY STEVEN J. LAFRANCHI & ASSOCIATES, INC. IN WRITING IMMEDIATELY OF ANY DIFFERENCES IN TOPOGRAPHY FROM THAT SHOWN ON THIS PLAN WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR EFFECT THE EARTHWORK QUANTITY.
- 17. EARTHWORK QUANTITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND ARE FURNISHED FOR THE CONTRACTOR'S INFORMATION ONLY. THEY HAVE BEEN CALCULATED FROM EXISTING GROUND BASED ON THE TOPOGRAPHY REFERENCED ABOVE TO FINISHED GRADE. THE ACTUAL AMOUNT OF EARTH MOVED WILL VARY DEPENDING ON COMPACTION. CONSOLIDATION, STRIPPING AND THE CONTRACTOR'S METHOD OF OPERATION.
- THE CONTRACTOR SHALL CONFIRM THE EARTHWORK QUANTITIES TO HIS SATISFACTION PRIOR TO THE START OF CONSTRUCTION AND SHALL ARRANGE FOR DISPOSAL OF EXCESS MATERIAL OR ACQUISITION OF IMPORT MATERIAL AS REQUIRED TO COMPLETE THE GRADING AS SHOWN ON THESE PLANS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY EXPORT OR IMPORT REQUIRED.
- 19. THE CONTRACTOR SHALL GRADE EACH PAD TO WITHIN 0.1 FOOT OF THE PAD GRADE ELEVATIONS SHOWN ON THESE PLANS.
- 20. A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER SHALL BE AVAILABLE FOR SUPPLEMENTAL SITE OBSERVATIONS AND CONSULTATION WITH THE CONTRACTOR AND / OR OTHER ENGINEERS AS REQUIRED OR REQUESTED IN ORDER TO RESPOND TO GEOTECHNICAL RELATED CONCERNS OR CHANGED CONDITIONS AS THEY ARISE.
- NOTE: ALL SITE AND PAD GRADING SHALL BE CERTIFIED BY THE PROJECT ENGINEER AND THE PROJECT GEOTECHNICAL ENGINEER. SAID CERTIFICATION SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
- 21. COMPREHENSIVE TRAFFIC CONTROL MEASURES SHALL BE IMPLEMENTED, INCLUDING SCHEDULING OF MAJOR TRUCK TRIPS, AND DELIVERIES SHALL AVOID PEAK TRAVEL HOURS AND PROPER LANE CLOSURE PROCEDURES SUCH AS FLAGGER STATIONS, SIGNAGE, CONES, AND OTHER WARNING DEVICES SHALL BE PRACTICED.
- 22. MASS GRADING ACTIVITIES SHALL BE LIMITED TO THE HOURS BETWEEN 8:00 A.M. AND 5:00 P.M. MONDAY THRU FRIDAY, UNLESS PRIOR WRITTEN APPROVAL IS GRANTED BY THE CITY ENGINEER. GENERALLY, NO GRADING SHALL BE ALLOWED TO OCCUR BETWEEN OCTOBER 15 AND APRIL 1 OF ANY YEAR WITHOUT PRIOR APPROVAL OF THE CITY ENGINEER. GRADING WORK CAN OCCUR THROUGHOUT THE YEAR IF WEATHER CONDITIONS PERMIT AND APPROPRIATE EROSION CONTROL/STORM WATER QUALITY MEASURES ARE IN PLACE, SUBJECT TO APPROVAL BY THE CITY ENGINEER.
- 23. ALL INTERNAL COMBUSTION ENGINES ON GRADING OR CONSTRUCTION EQUIPMENT USED AT THE PROJECT SHALL BE EQUIPPED WITH A MUFFLER EQUAL TO OR BETTER THAN THAT SUPPLIED BY THE VEHICLE MANUFACTURER. ALL EQUIPMENT SHALL BE MAINTAINED IN GOOD MECHANICAL CONDITION SO AS TO MINIMIZE NOISE AND AIR POLLUTION FROM FAULTY ENGINE, DRIVE TRAIN, AND OTHER COMPONENTS. NO MUFFLER OR EXHAUST SYSTEM SHALL BE EQUIPPED WITH CUTOUT, BYPASS, OR SIMILAR DEVICE INTENDED TO
- 24. TRASH, CONSTRUCTION DEBRIS, OR CONSTRUCTION MATERIALS SHALL NOT BE ALLOWED OFF-SITE, IN CREEK AREAS, OR NEAR SIGNIFICANT VEGETATION DURING ANY PHASE OF DEVELOPMENT OF THE PROJECT. PROPERTY OWNER SHALL CLEAN UP TRASH OR CONSTRUCTION DEBRIS PRIOR TO ACCEPTANCE OF IMPROVEMENTS BY THE CITY.
- 25. DUST CONTROL BEST MANAGEMENT PRACTICES, AS APPROVED BY THE CITY ENGINEER SHALL BE FOLLOWED AT ALL TIMES DURING GRADING AND CONSTRUCTION OPERATIONS. SUCH MEASURES MAY INCLUDE WATERING OF EXPOSED SURFACES TWICE A DAY, AND MORE FREQUENT WATERING WHEN WIND SPEEDS EXCEED 15 MPH; COVERING OF STOCKPILED EARTH; COVERING OF TRUCKS HAULING DIRT IF WINDY CONDITIONS PREVAIL. FAILURE TO KEEP DUST UNDER CONTROL MAY RESULT IN THE STOPPAGE OF ALL WORK UNTIL A MODIFIED PLAN ACCEPTABLE TO THE CITY ENGINEER IS APPROVED AND
- 26. PRIOR TO GRADING CONSTRUCTED AFTER OCTOBER 1 AND BEFORE MAY 1, STORM DRAINS, OUTLET STRUCTURES, CHECK DAMS AND DITCHES SHALL BE CONSTRUCTED.
- 27. SPRINKLE ALL CONSTRUCTION AREAS WITH WATER (RECYCLED WHEN POSSIBLE) AT LEAST TWICE A DAY, DURING EXCAVATION AND OTHER GROUND-PREPARING OPERATIONS, TO REDUCE FUGITIVE DUST EMISSIONS.
- 28. APPROPRIATE EROSION CONTROL DEVICES SHALL BE UTILIZED TO RETAIN SEDIMENT WITHIN THE PROJECT AREAS DURING THE CONSTRUCTION SEASON.
- 29. THE CONTRACTOR SHALL COMPLY WITH "BEST MANAGEMENT PRACTICES" AS DEFINED IN CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICES HANDBOOKS "CONSTRUCTION ACTIVITY" AND ALL REQUIREMENTS OF THE STATE OF CALIFORNIA "GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT".
- 30. SUBGRADE FOR BUILDING PADS SHOULD BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION.
- 31. SUBGRADE AND CLASS 2 AGGREGATE BASE FOR DRIVEWAYS SHOULD BE COMPACTED TO 95% RELARIVE COMPACTION PER ASTM D1557

#### **PROJECT NOTES:**

- CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE PETALUMA CITY ENGINEER. THE DEVELOPER OR DEVELOPER'S REPRESENTATIVE AND CIVIL ENGINEER BEFORE START OF CONSTRUCTION. CONTRACTOR SHALL CONTACT PUBLIC WORKS INSPECTION AT (707)778-4301 TO ARRANGE THE MEETING.
- THE DEVELOPER'S ENGINEER WILL PROVIDE THE CONSTRUCTION STAKES. THE NUMBER AND LOCATION OF WHICH SHALL BE DETERMINED BEFORE THE CONSTRUCTION BEGINS. ALL STAKING REQUESTS SHOULD BE DIRECTED TO THE ENGINEER A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ACTUAL NEED. ANY ADDITIONAL STAKING OR RESTAKING WILL ONLY BE DONE AS DIRECTED AND AUTHORIZED BY THE DEVELOPER OR HIS AUTHORIZED AGENT. THE CITY ENGINEER HAS THE AUTHORITY TO REQUIRE THE DEVELOPER OR HIS AUTHORIZED AGENT TO PLACE ADDITIONAL STAKES OR RESTAKES AS HE DEEMS NECESSARY FOR PROPER CONSTRUCTION OR TO AVOID CONFLICTS.
- THE CONTRACTOR SHALL NOT DESTROY ANY PERMANENT SURVEY POINTS WITHOUT THE CONSENT OF THE CITY ENGINEER. ANY PERMANENT MONUMENTS OR POINTS DESTROYED SHALL BE REPLACED BY A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR LICENSED IN THE STATE OF CALIFORNIA AT THE CONTRACTOR'S EXPENSE.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING ETC., AND AVOIDING ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS, OR HAZARDOUS CONDITIONS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING REQUIRED INSPECTIONS AND SHALL NOTIFY THE APPROPRIATE INDIVIDUAL OR AGENCY TWO (2) WORKING DAYS PRIOR TO THE TIME THAT THE CONTRACTOR WISHES THE INSPECTION TO BE MADE.
- THESE PLANS AND SPECIFICATIONS, INCLUDING GRADES AND STREET DRAINAGE ARE SUBJECT TO MODIFICATION DURING CONSTRUCTION SHOULD CONDITIONS APPEAR THAT WERE NOT APPARENT DURING DESIGN. ANY SUCH MODIFICATION SHALL BE APPROVED BY THE CITY OF PETALUMA CITY ENGINEER.
- 7. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE LOCAL AGENCY ENGINEER OR STEVEN J. LAFRANCHI & ASSOCIATES, INC. ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF THE CIVIL ENGINEER SHALL ABSOLVE THE CIVIL ENGINEER OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION OR CHANGE.
- 8. A REGISTERED GEOTECHNICAL ENGINEER FIRM SHALL PROVIDE A QUALIFIED FIELD TECHNICIAN, WORKING UNDER THE DIRECTION OF A GEOTECHINICAL ENGINEER, TO BE ON SITE INTERMITTENTLY AS REQUIRED TO OBSERVE AND TEST THE SITE GRADING WORK AND 5. THE ASPHALT CONCRETE SHALL HAVE A RELATIVE COMPACTION OF AT LEAST UNDERGROUND UTILITY TRENCH BACKFILLING / COMPACTION TO CHECK THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE INTENT OF THE GEOTECHNICAL ENGINEERING RECOMMENDATIONS. THE RESULTS OF THESE OBSERVATIONS AND TESTS WILL THEN BE 6. PRESENTED IN A WRITTEN REPORT UPON SATISFACTORY COMPLETION OF THE WORK.
- 9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE CITY, THE CITY INSPECTOR AND THE CIVIL ENGINEER UPON DISCOVERY OF ANY FIELD OR PLAN
- 10. ANY EXISTING WELLS ENCOUNTERED SHALL BE ABANDONED AND SEALED BY THE CONTRACTOR PER COUNTY OF SONOMA AND STATE REQUIREMENTS.
- 11. ALL DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CAL GREEN REQUIREMENTS.

#### WATER SYSTEM

WITH 1 INCH METERS.

BEDDING AND BACKFILL SHALL COMPLY WITH THE CITY OF PETALUMA STANDARD SPECIFICATIONS AND STD. 219.

- EXCAVATIONS MUST BE KEPT DEWATERED AT ALL TIMES SO AS NOT TO ALLOW CONTAMINATED WATER TO ENTER WATER MAINS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION, DIAMETER. AND TYPE OF EXISTING PIPE SO THAT THE NEW PIPE CAN BE PROPERLY
- MISALIGNMENTS SHALL BE CORRECTED BY THE REALIGNMENT OF EITHER OR BOTH PIPES TO BE CONNECTED. CONTRACTOR SHALL PROVIDE ALL FITTINGS AND PIPE MATERIALS NEEDED TO CONNECT THE NEW PIPE TO THE EXISTING PIPE.

ALIGNED WITH AND FITTED TO THE EXISTING PIPE.

- 5. DEFLECTION OF PIPE AT JOINTS SHALL COMPLY WITH MANUFACTURER'S SPECIFICATIONS.
- BENDS MAY NOT BE USED EXCEPT WHEN PROVIDED FOR ON THESE PLANS OR
- PERMITTED BY THE CITY ENGINEER. THRUST BLOCKS SHALL BE PROVIDED AT TEES AND BENDS 22-1/2 DEGREES OR
- GREATER. CONCRETE THRUST BLOCKS SHALL BE INSTALLED PER CITY STD. PLAN 854. 8 WATER SERVICE AND METER SHALL BE INSTALLED PER CITY STD. 863. WATER SERVICE
- TIE-INS BY THE CONTRACTOR MUST BE COORDINATED WITH THE CITY INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF WORK. EXCAVATIONS BY THE CONTRACTOR FOR TIE-INS MUST BE APPROVED BY THE CITY ENGINEER OR AUTHORIZED REPRESENTATIVE THE DAY BEFORE WORK IS COMMENCE AT EACH TIE-IN.
- 10. ALL FITTINGS, VALVES AND MATERIALS TO ACCOMPLISH ALL TIE-INS SHALL BE ON THE JOB, AND EXISTING LINES EXPOSED AND CHECKED FOR PROPER FIT BY THE CITY PRIOR TO ANY SHUTDOWN.
- 11. THE INSIDE OF ALL PIPE AND FITTINGS MUST BE DISINFECTED WITH A PROPER
- 12. TIE-IN TO THE EXISTING CITY WATER SYSTEM SHALL BE MADE ONLY IN THE PRESENCE OF AND WITH THE APPROVAL OF THE CITY ENGINEER. THE OPERATION OF VALVES IN THE EXISTING CITY SYSTEM BY OTHER THAN CITY PERSONNEL WILL NOT BE PERMITTED. NO TIE-INS TO EXISTING MAINS WILL BE PERMITTED UNTIL CERTIFICATION
- (DISINFECTION) PER CITY STANDARDS IS ACCOMPLISHED. WATER METER'S SHALL NOT BE LOCATED IN DRIVEWAYS. DRIVEWAY CUTS SHALL BE STAKED BEFORE SERVICE LATERALS ARE INSTALLED.
- FIRE HYDRANTS TO BE INSTALLED AT LOCATIONS SHOWN ON PLANS IN ACCORDANCE WITH CITY STD. 857.01. A BREAK-AWAY AVK'S SHALL BE INSTALLED IN ALL FIRE HDRANTS. THE BLUE MARKER INDICATING EXISTENCE OF FIRE HYDRANTS SHALL BE INSTALLED PER CITY STANDARDS. 15. ALL FIRE HYDRANT INSTALLATIONS WILL BE SUBJECT TO INSPECTION AND APPROVAL BY
- MARSHALL WILL ONLY BE MADE AT THE DISCRETION OF THE AGENCY INSPECTOR AT SUCH TIME AS ALL WORK ON THE WATER SUPPLY SYSTEM HAS BEEN COMPLETED. 16. WHENEVER WATER MAINS CROSS STORM OR SANITARY SEWER LINES, DUCTILE IRON PIPE AS SPECIFIED HEREIN, SHALL BE USED AS FOLLOWS:

THE CITY ENGINEER OR AUTHORIZED REPRESENTATIVE. INSPECTION BY THE FIRE

- WHEN THE WATER LINE CROSSES UNDER A SANITARY SEWER LINE REGARDLESS OF CLEARANCE.
- WHEN THE WATER LINE CROSSES UNDER A STORM DRAIN WITH LESS THAN ONE FOOT OF CLEARANCE. WHEN THE WATER LINE CROSSES OVER A STORM OR SANITARY SEWER WITH LESS THAN ONE FOOT OF CLEARANCE. CONSTRUCTION SHALL BE BASED ON THE MOST

CURRENT STANDARDS AT THE TIME OF CONSTRUCTION.

#### **SEWER NOTES**

REQUIRED FOR ALL INSPECTIONS.

OF CONSTRUCTION.

- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PETALUMA CONSTRUCTION STANDARDS AND SPECIFICATIONS, INCLUDING STANDARD DRAWINGS (LATEST REVISION).
- THE PROJECT DESIGN ENGINEER SHALL VERIFY THE INVERT OF THE EXISTING SEWER WHEN IT IS EXPOSED AND ADJUST THE GRADE OF THE NEW SEWER CONSTRUCTION ACCORDINGLY.

NO BUILDING SHALL BE CONNECTED TO THE MAINLINE SEWER UNTIL THE MAINLINE

- SEWER HAS BEEN INSPECTED AND ACCEPTED BY THE CITY OF PETALUMA. ALL SANITARY SEWER CONSTRUCTION SHALL BE INSPECTED BY AN INSPECTOR FROM THE CITY OF PETALUMA BUILDING DEPARTMENT. 48 HOUR ADVANCE NOTICE IS
- 5. INSPECTION WILL OCCUR WHEN EXCAVATION OF SEWER INSTALLATION IS COMPLETED. NO BEDDING. PIPE OR BACKFILL OR OTHER MATERIAL SHALL BE PLACED IN THE EXCAVATION UNTIL THE EXCAVATION HAS BEEN INSPECTED AND ACCEPTED BY THE INSPECTOR. 48 HOUR ADVANCE NOTICE IS REQUIRED FOR ALL INSPECTIONS.
- SEWER LATERALS SHALL HAVE A MIN. OF 3.0 FEET OF COVER (AT BACK OF PUE) AND SHALL NOT HAVE LESS THAN 2% MIN SLOPE, IT SHALL BE PLACED UNDER THE UNDERGROUND JOINT TRENCH UTILITIES AND KEPT CLEAR OF DRIVEWAYS.
- ALL EXISTING SEPTIC TANKS AND LEACHFIELDS SHALL BE ABANDONED PER SONOMA COUNTY ENVIRONMENTAL HEALTH DEPARTMENT.

CONSTRUCTION SHALL BE BASED ON THE MOST CURRENT STANDARDS AT THE TIME

#### **REVISION LOG**

2021.11.05 ADDENDA 1 1



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PROJECT NO. H00202500

No. 49302

SCALE: SHEET

ONSITE SHALL BE SCHEDULE 40 PVC. ALL NEW WATER SERVICES SHALL BE 1.5 INCHES DISINFECTING AGENT PER CITY OF PETALUMA SPECIFICATIONS.

**ASPHALT PAVING** 

CONSTRUCTION.

THE MATERIAL AND METHODS USED SHALL CONFORM TO THE

SECTION 26, FOR CLASS II AGGREGATE BASE.

REQUIREMENTS OF THE CITY OF PETALUMA SPECIFICATIONS OR THE

THAT COMPACTION REQUIREMENTS FOR THE SOIL SUBGRADE AND

USED FOR THE BASE COURSE SHALL COMPLY WITH THE MINIMUM

REQUIREMENTS SPECIFIED IN CALTRANS STANDARD SPECIFICATIONS,

OCCURS DURING THE WET WINTER MONTHS. IF PAVEMENTS ARE

CURRENT FDITION OF THE CALTRANS STANDARD SPECIFICATIONS. EXCEPT

AGGREGATE BASE ROCK SHALL BE BASED ON ASTM D-1557. AGGREGATE

PAVEMENTS SHALL BE CONSTRUCTED DURING THE DRY SEASON TO AVOID

THE SATURATION OF THE SUBGRADE AND BASE MATERIALS WHICH OFTEN

CONSTRUCTED DURING THE WINTER AND EARLY SPRING. A COST INCREASE

ENGINEER SHALL BE CONSULTED FOR RECOMMENDATIONS AT THE TIME OF

RELATIVE TO DRIER WEATHER CONSTRUCTION SHOULD BE ANTICIPATED.

UNSTABLE AREAS SHALL BE OVER EXCAVATED TO REMOVE SOFT SOILS.

THE EXCAVATIONS WILL PROBABLY REQUIRE GEOTEXTILE FABRIC AND

BACKFILLING WITH IMPORTED CRUSHED ROCK. THE GEOTECHNICAL

ASPHALT CONCRETE SHALL BE TYPE A, 1/2-INCH MAXIMUM, MEDIUM

GRADATION AND SHALL CONFORM TO SECTION 39 OF THE STATE OF

EXISTING IMPROVEMENTS THAT ARE DAMAGED OR DISPLACED DURING

A SOILS OR GEOTECHNICAL ENGINEER SHALL TEST, AND APPROVE THE

CONSTRUCTION OF ROADS, AND, IF REQUIRED, PARKING AREAS. THE

GEOTECHNICAL ENGINEER SHALL PROVIDE COPIES OF THE TEST RESULTS

OF TESTING OR APPROVAL. THE APPROVAL SHALL INCLUDE THE STABILITY

BE SUBMITTED BY THE GEOTECHNICAL ENGINEER TO THE CITY ENGINEER

7. THE CLASS II AGGREGATE BASE SHALL HAVE A RELATIVE COMPACTION OF AT

WHICH CONTAINS AN ANALYSIS OF THE SOILS ENCOUNTERED AND

A TIGHT NON-YIELDING SURFACE WITH NO VISIBLE DISPLACEMENT.

AGGREGATE BASE MATERIALS SHALL BE PLACED IN ACCORDANCE WITH

SECTION 26-1.04 OF THE STANDARD SPECIFICATIONS OF THE STATE OF

COMPILATION OF COMPACTION TESTS PERFORMED.

CALIFORNIA, LATEST EDITION.

AND RELATIVE DENSITY OF SUBGRADES AND BASE COURSES PRIOR TO THE

PLACEMENT OF ASPHALT CONCRETE. A FINAL GEOTECHNICAL REPORT SHALL

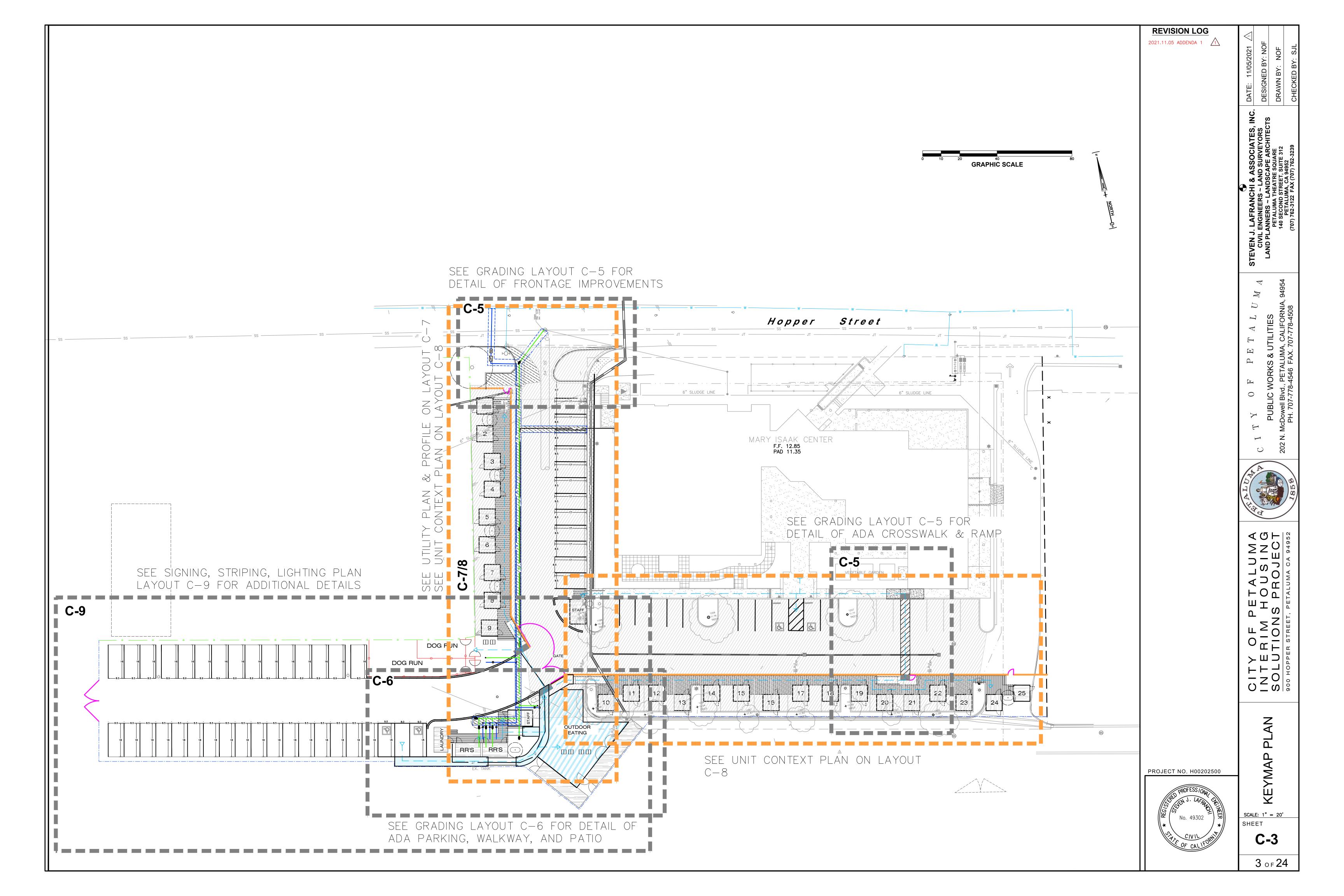
LEAST 95%, SHALL BE FREE OF LOOSE OR EXTRANEOUS MATERIAL, AND BE

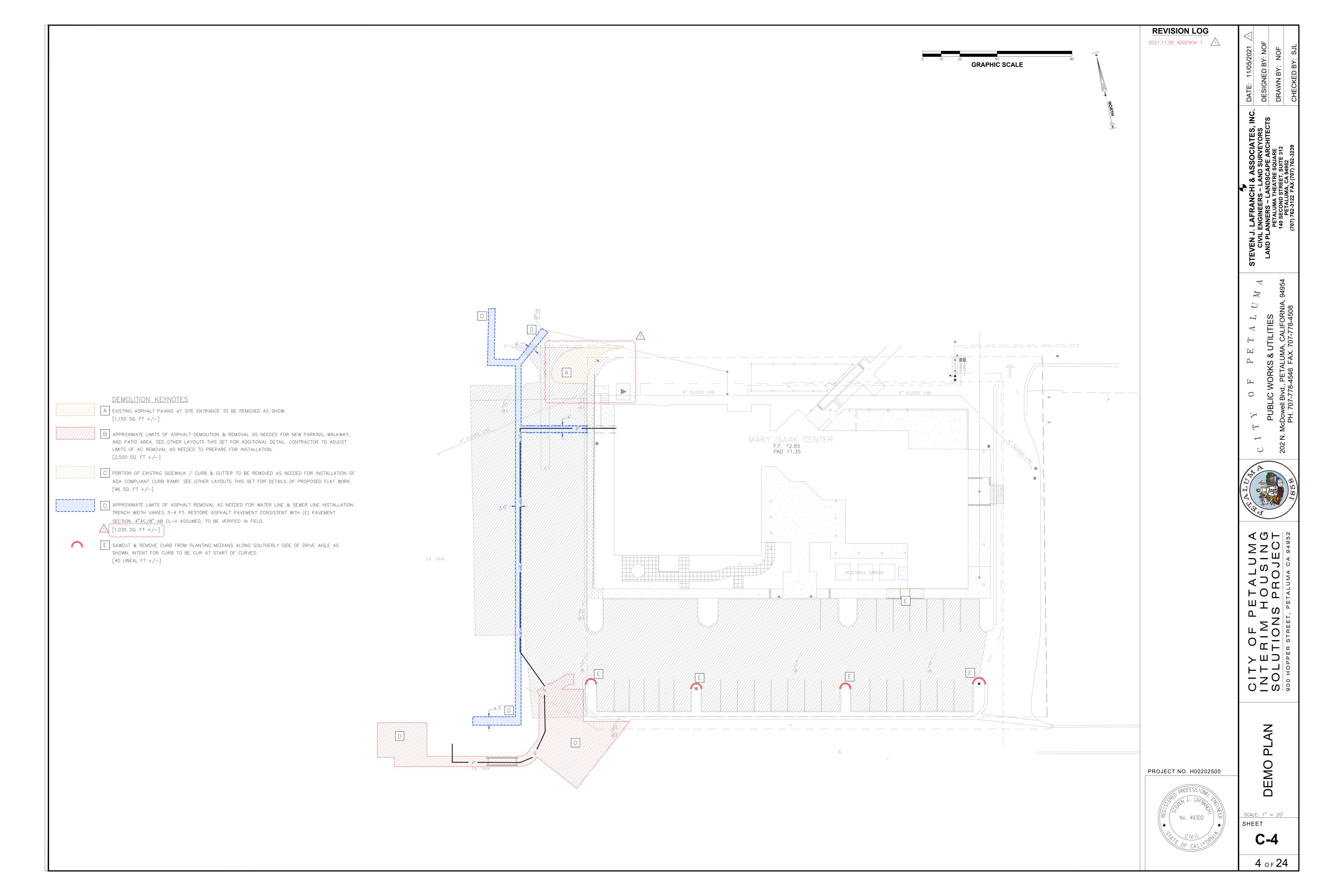
AND WRITTEN APPROVALS TO THE CITY INSPECTOR WITHIN THREE WORK DAYS

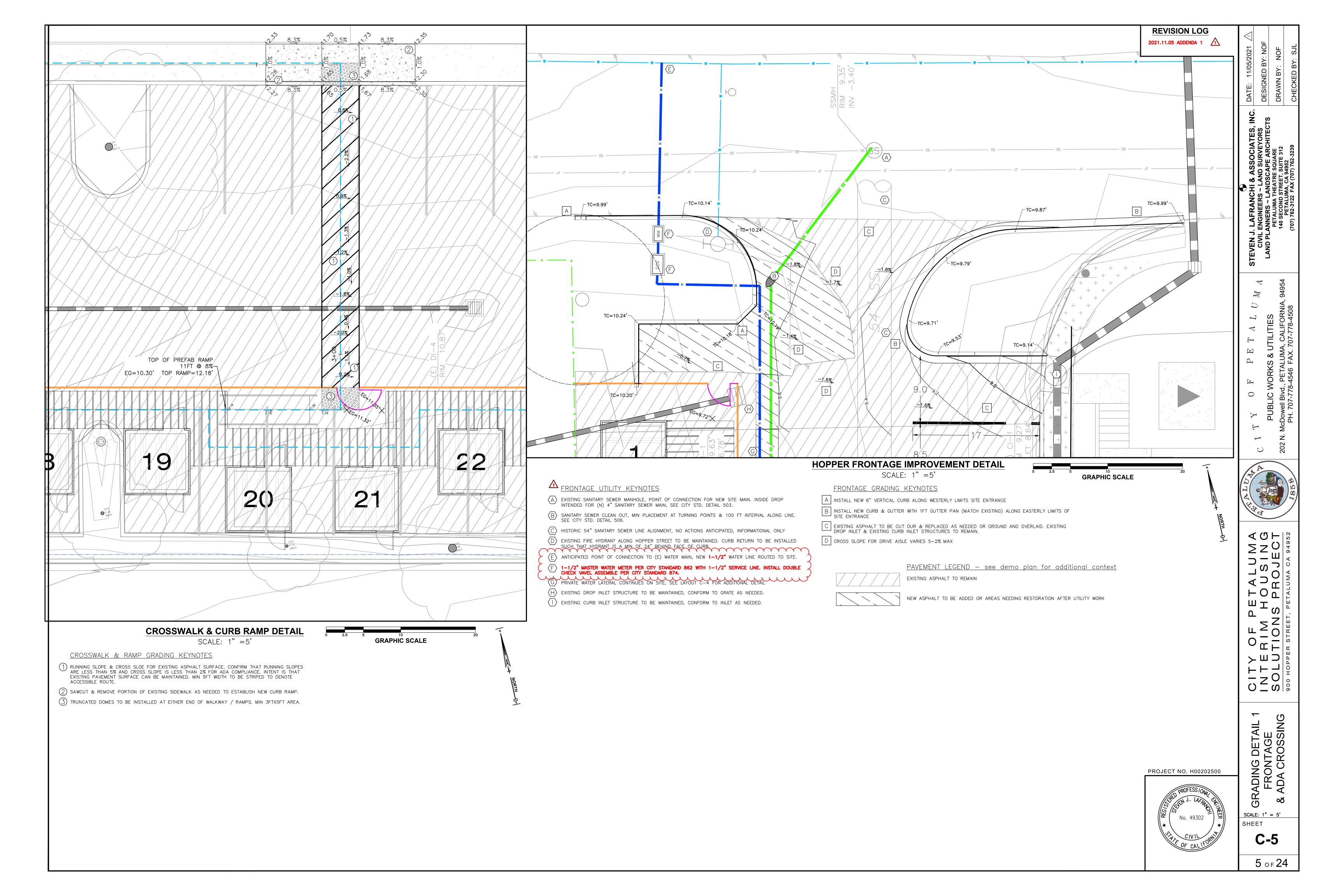
CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

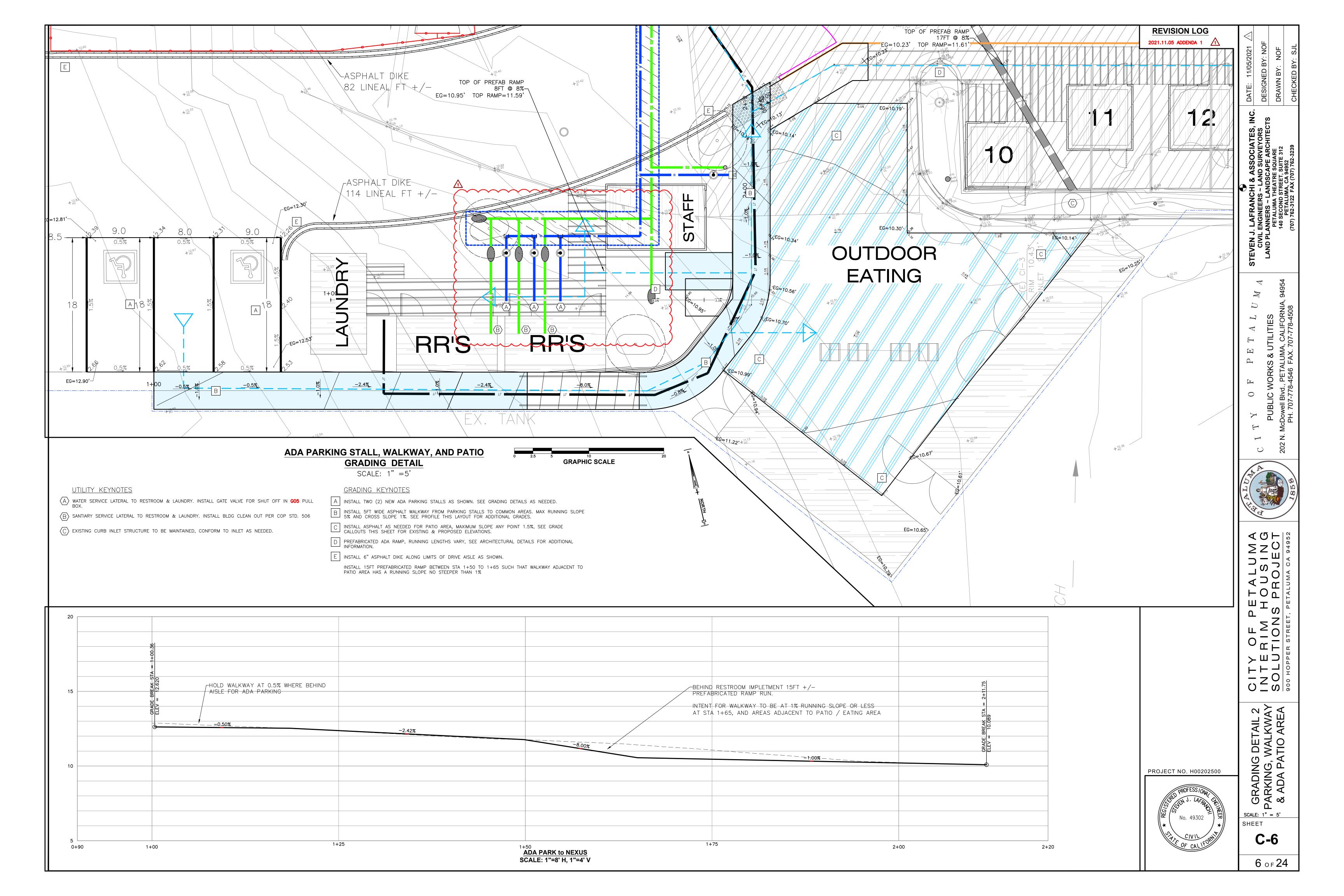
ASPHALT BINDER TO BE MIXED WITH THE AGGREGATE SHALL BE PAVING

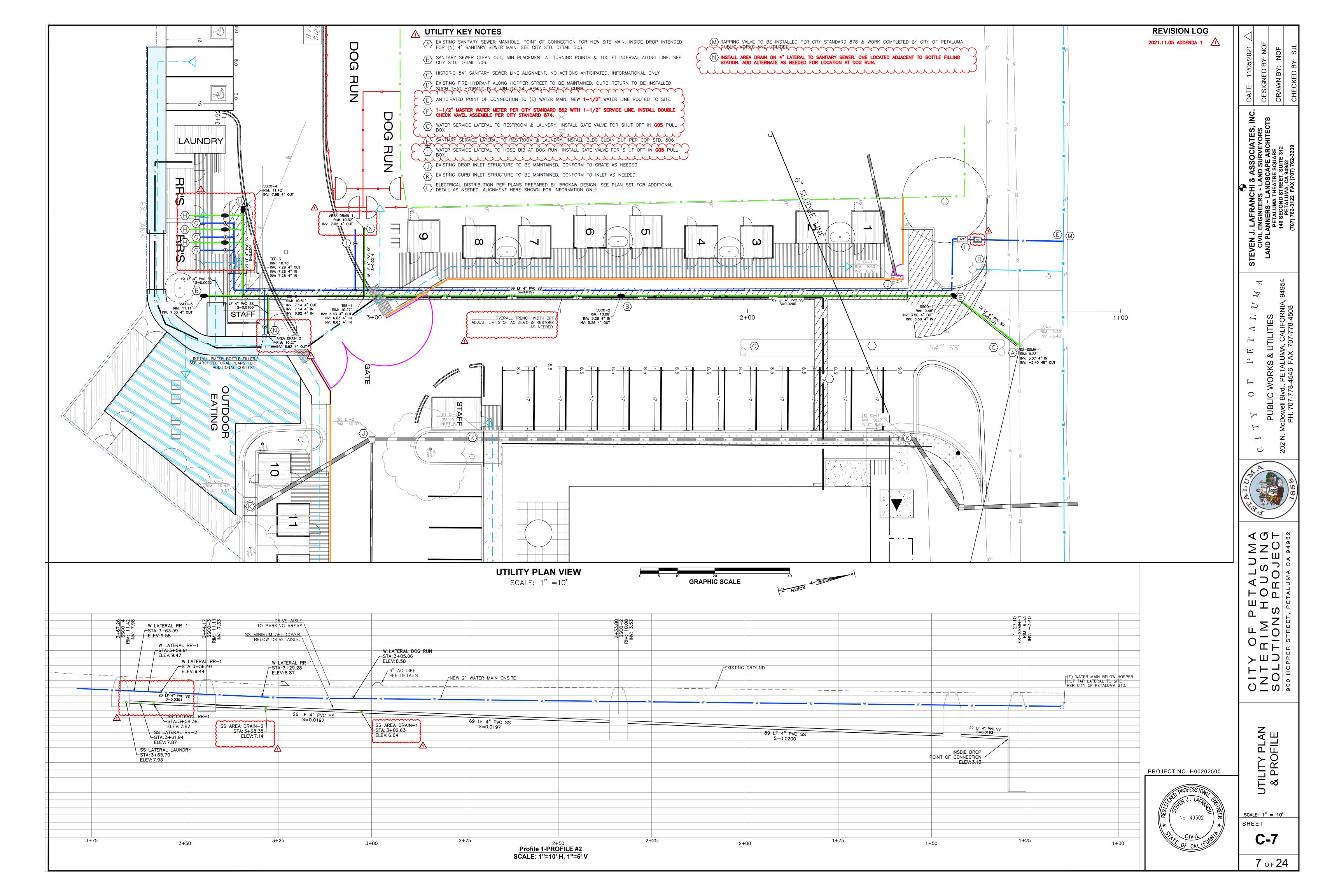
CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.

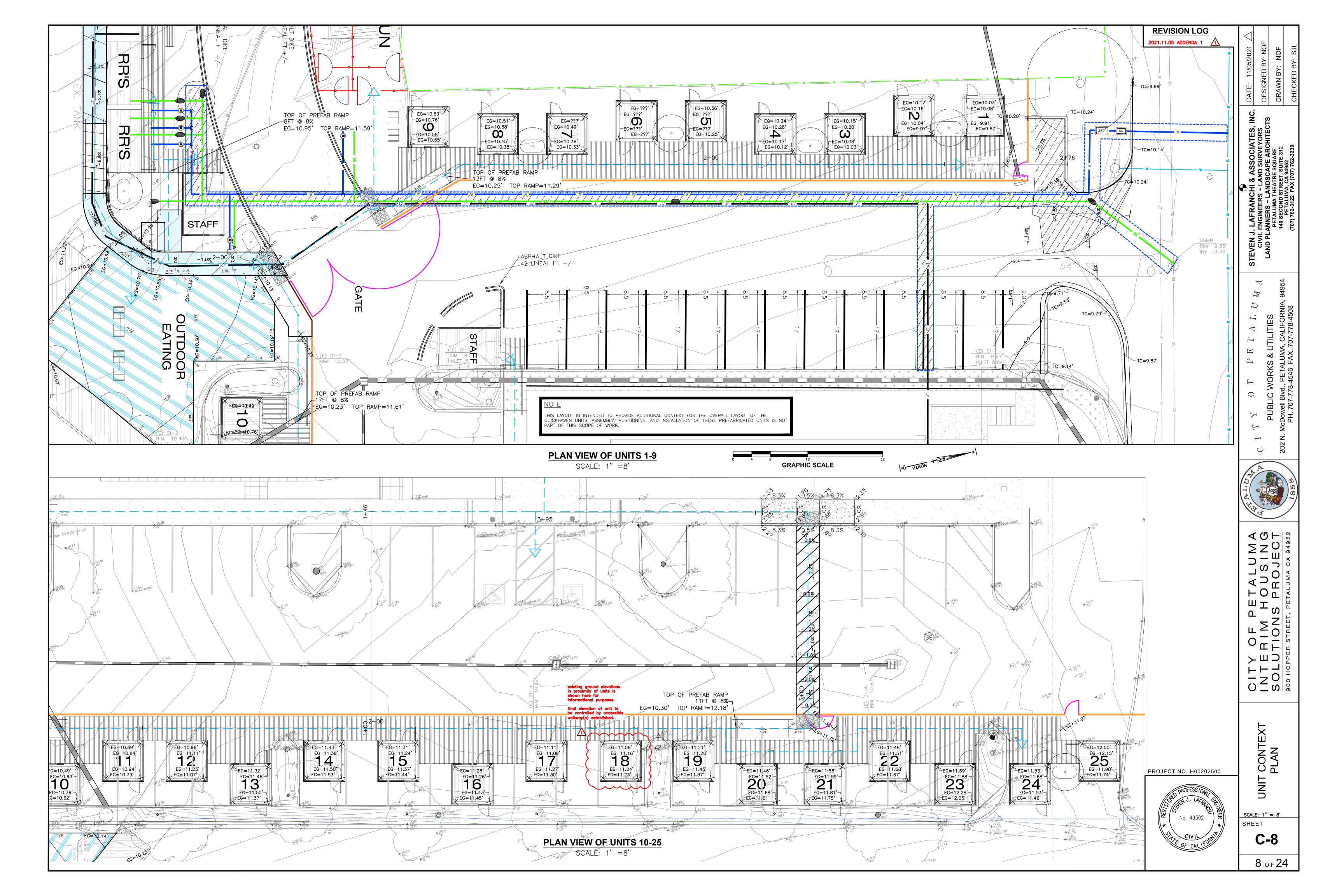


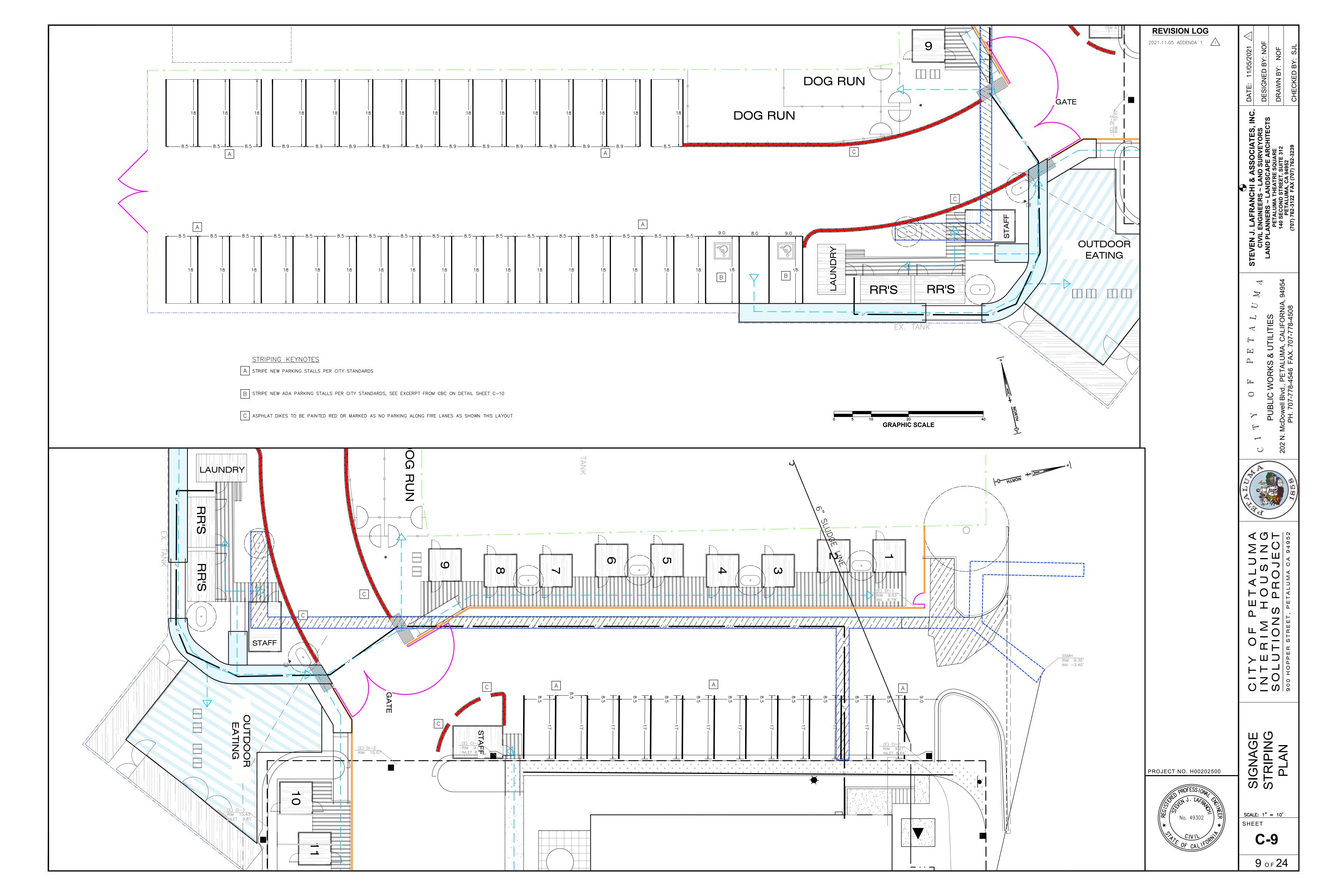


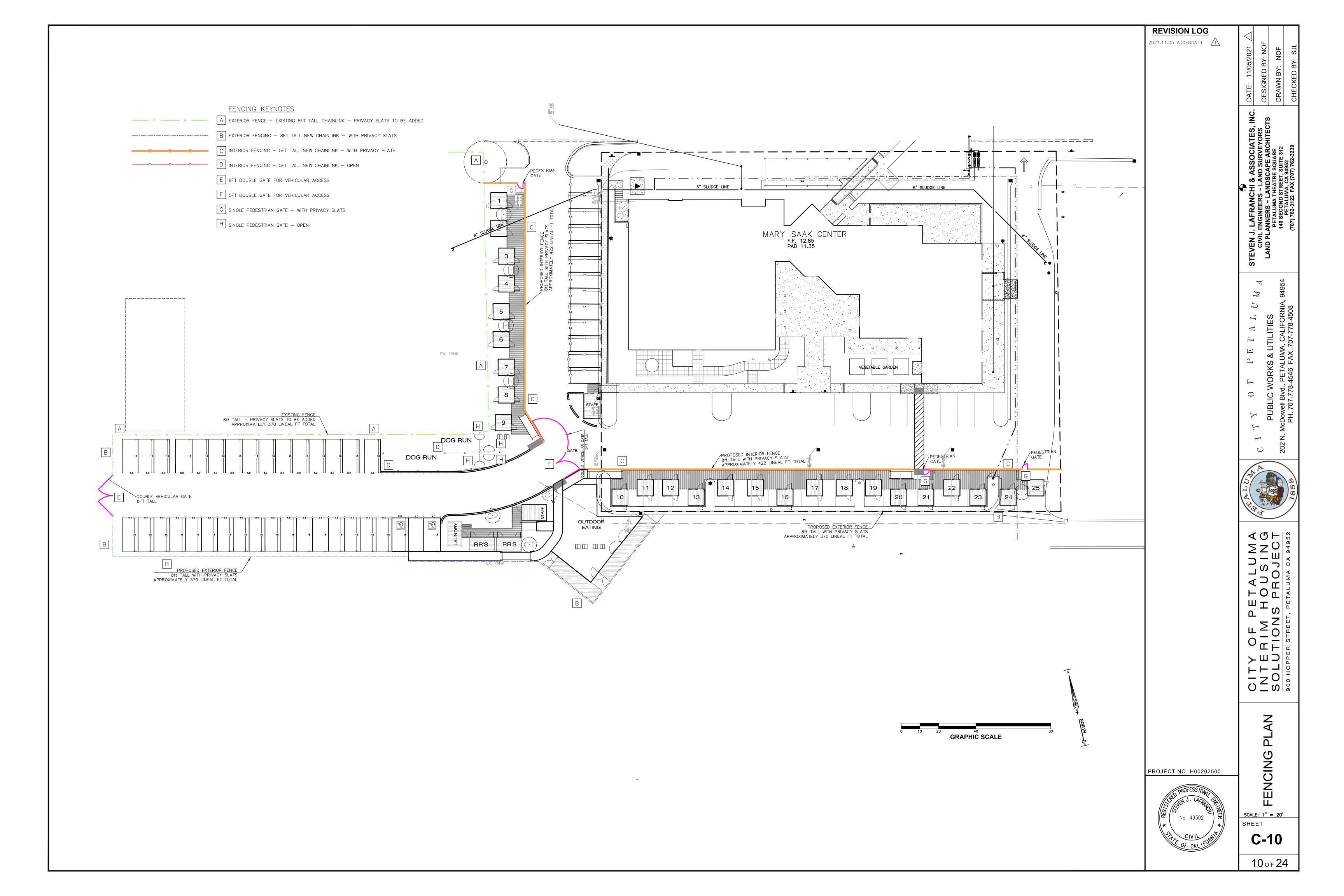


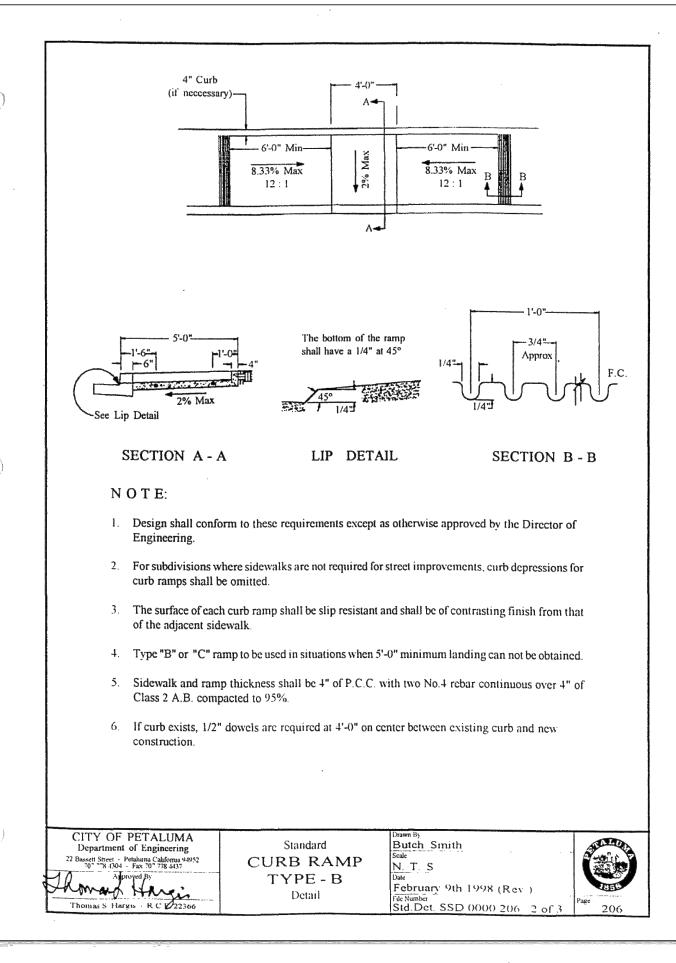


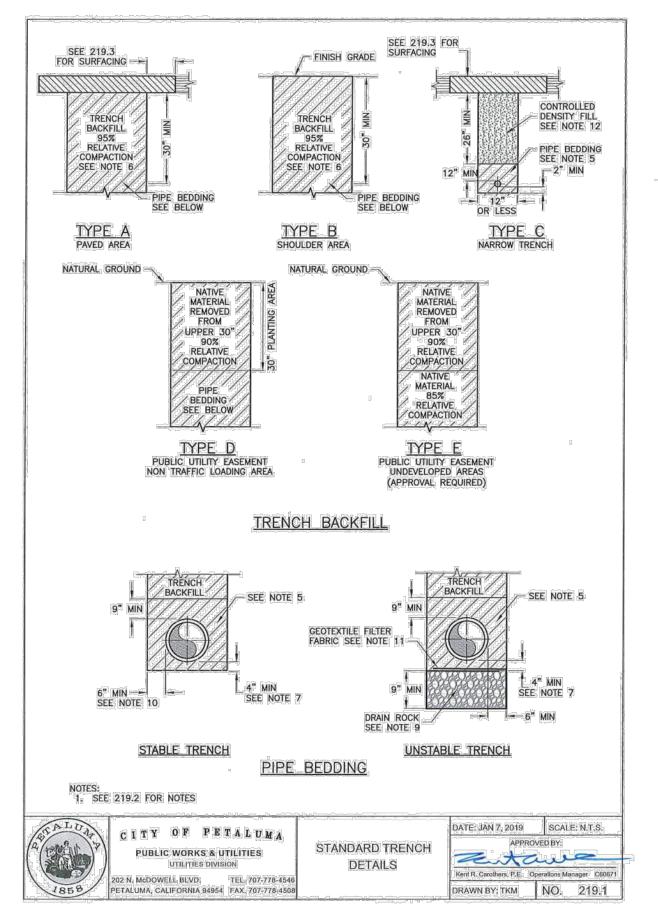


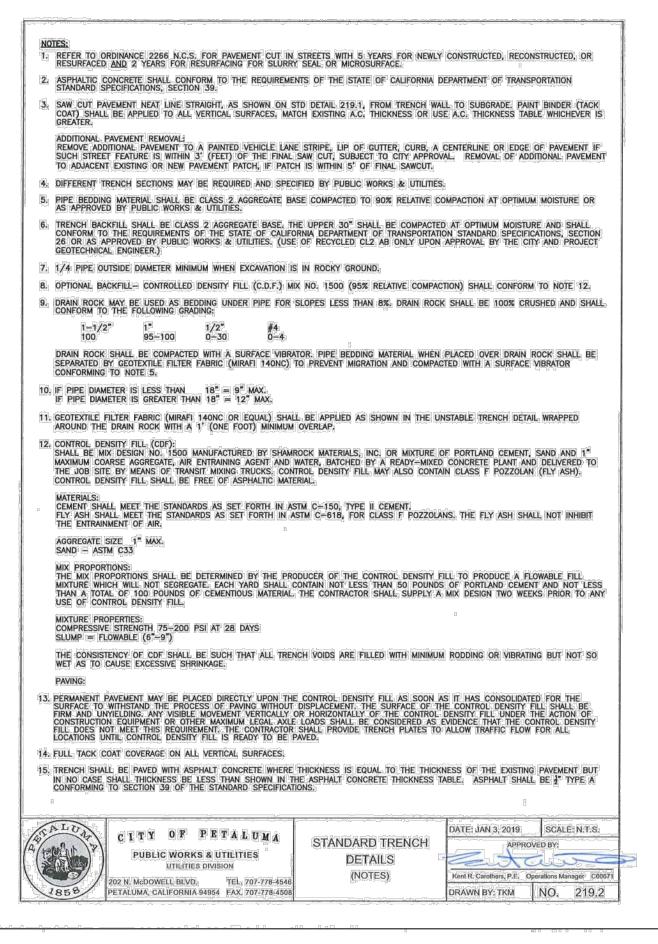


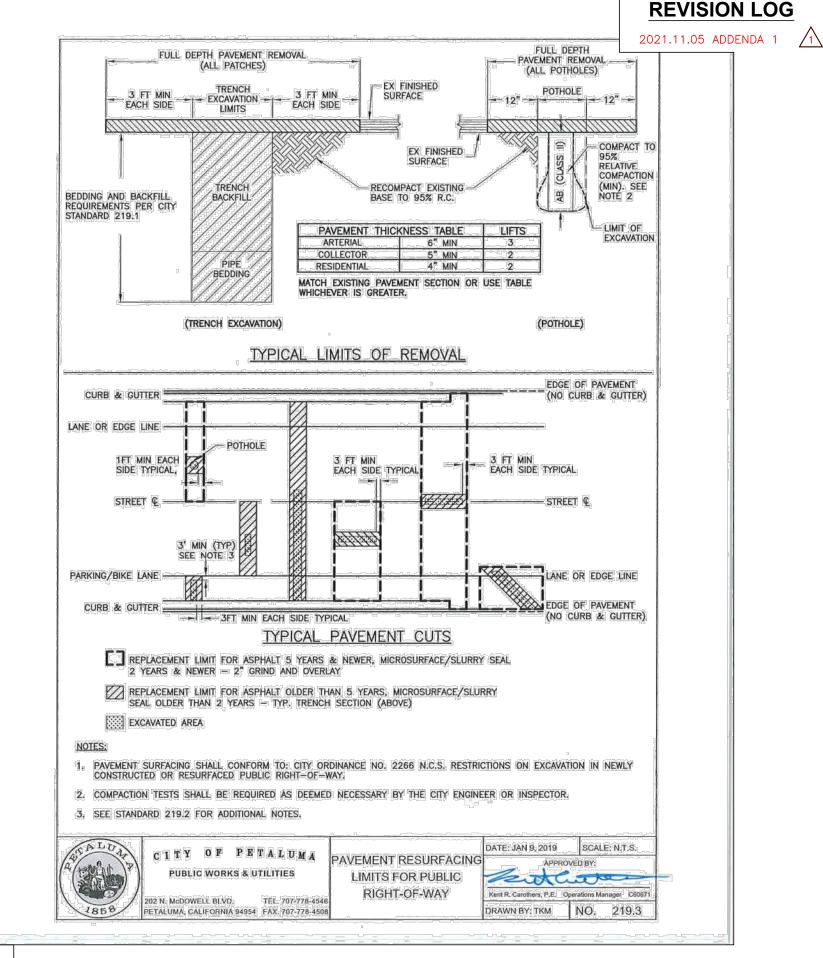


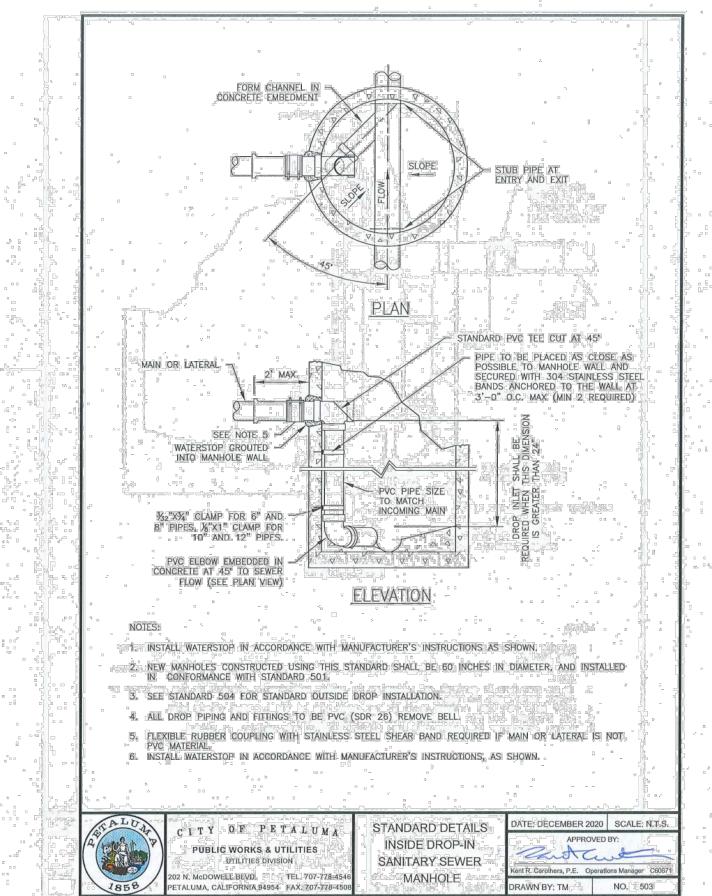


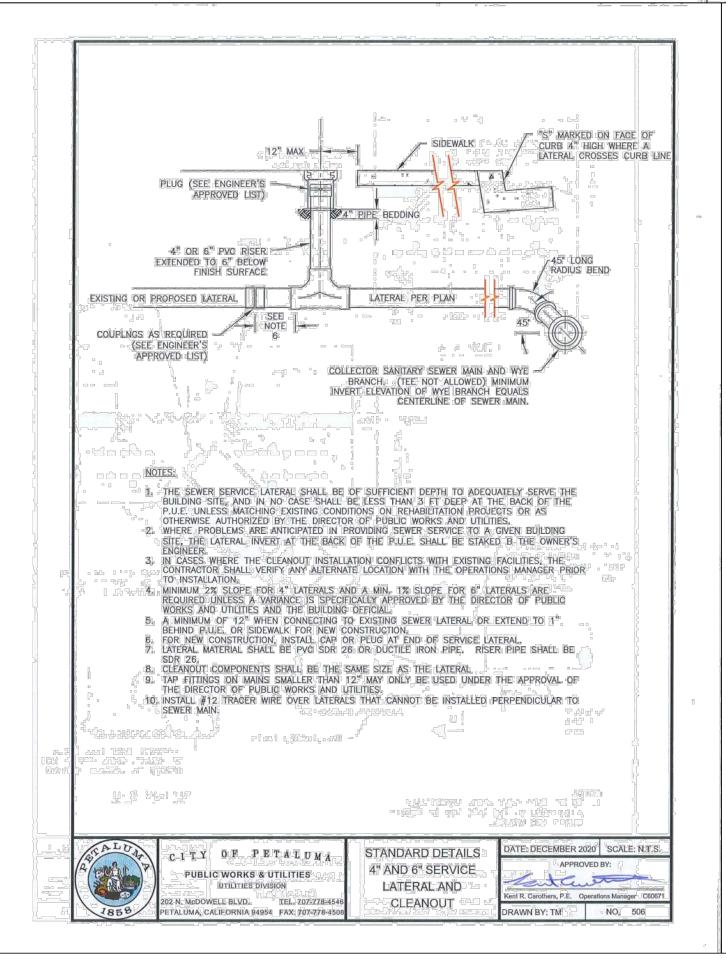


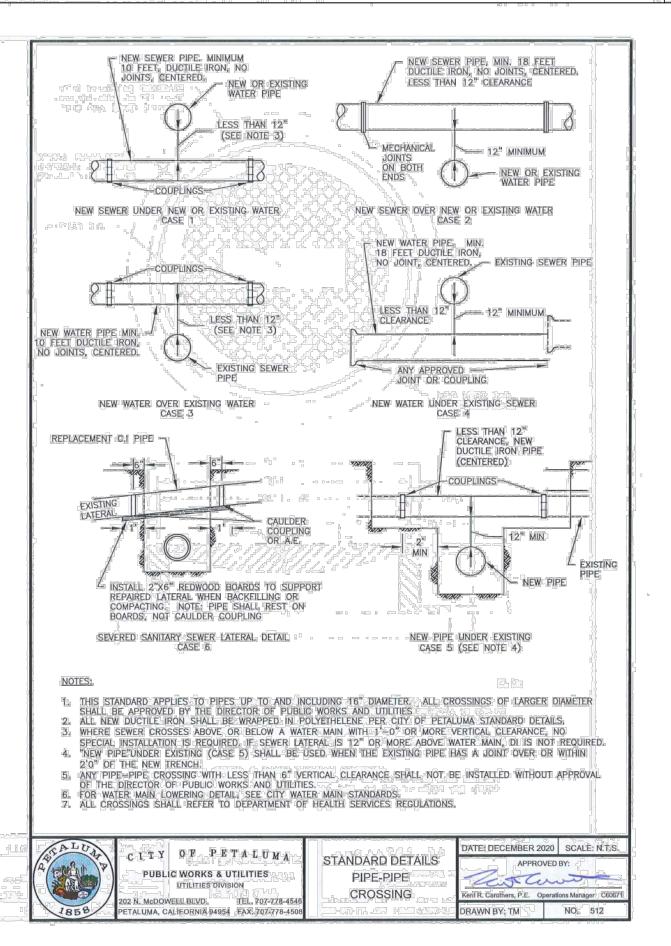














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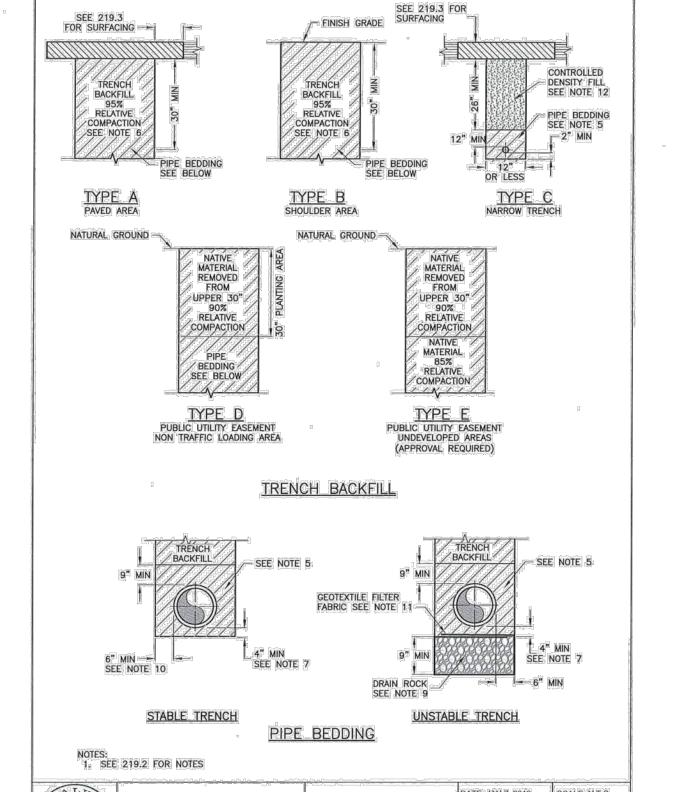
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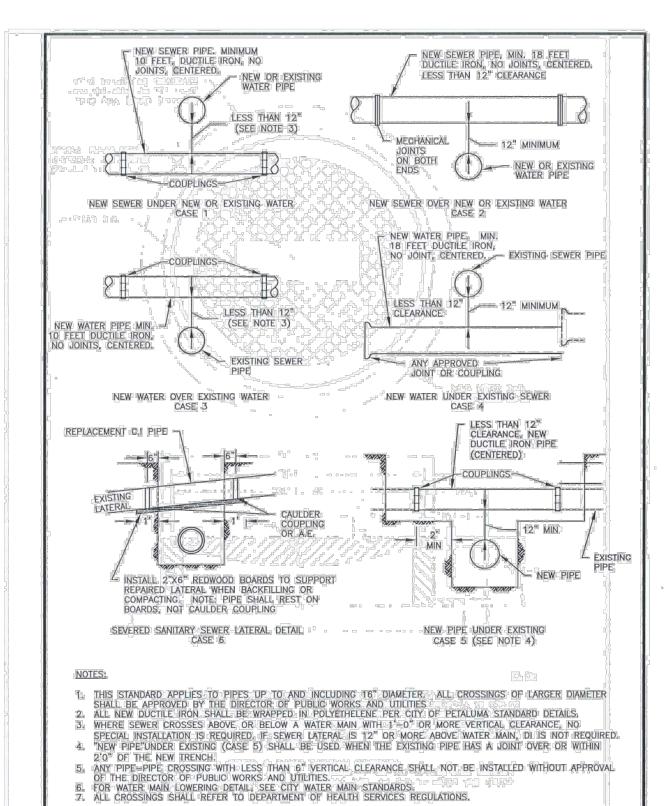
PROJECT NO. H00202500 No. 49302

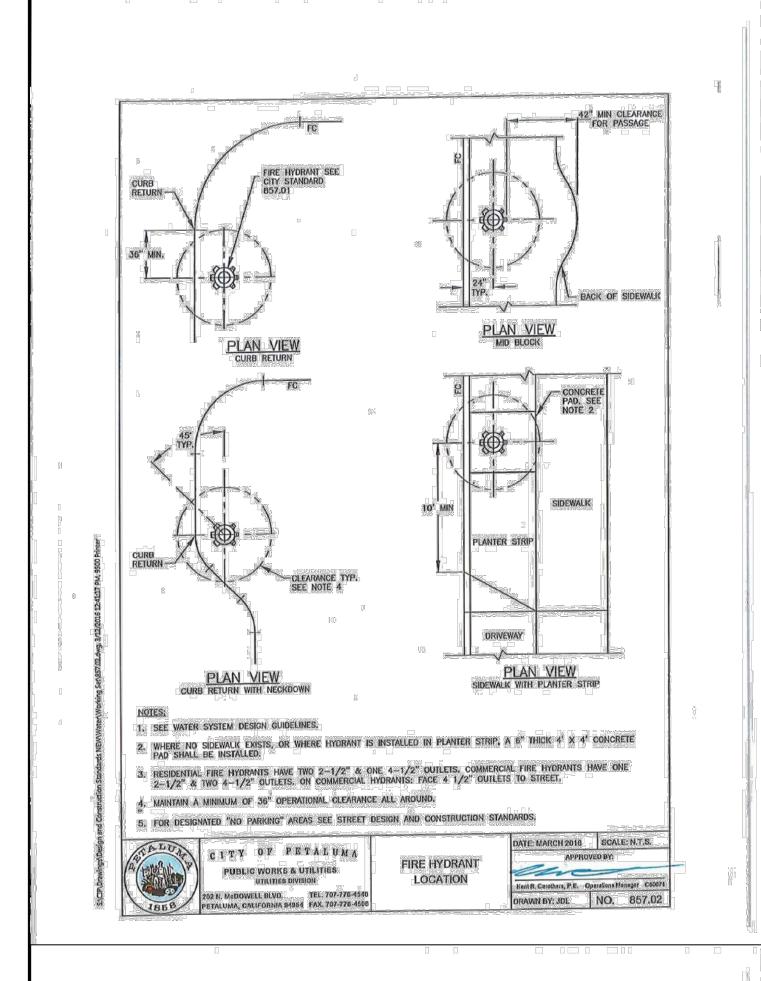
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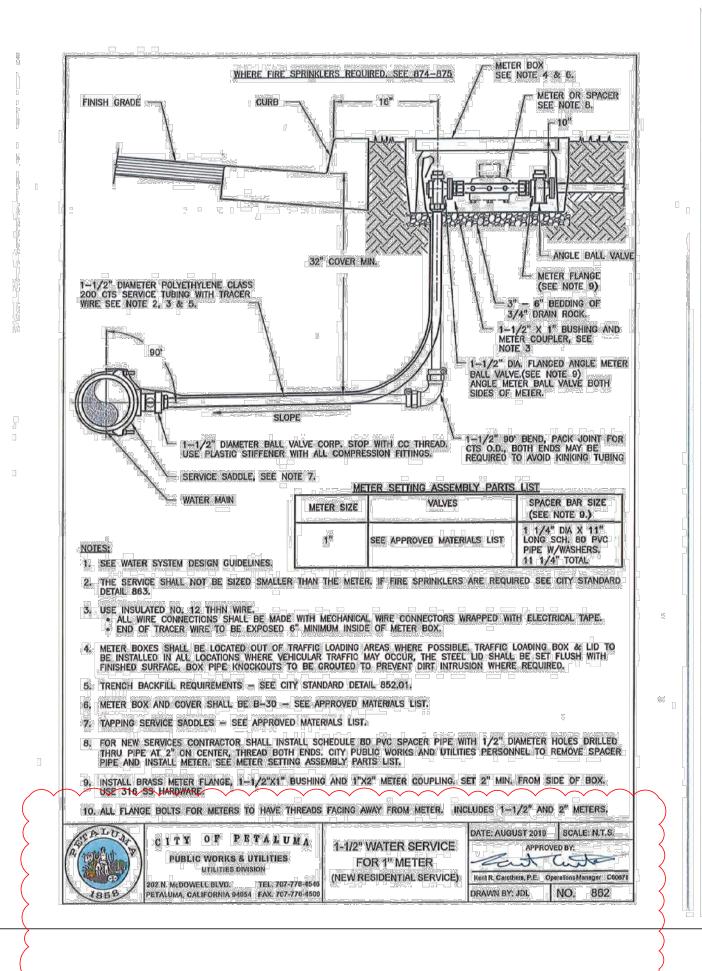
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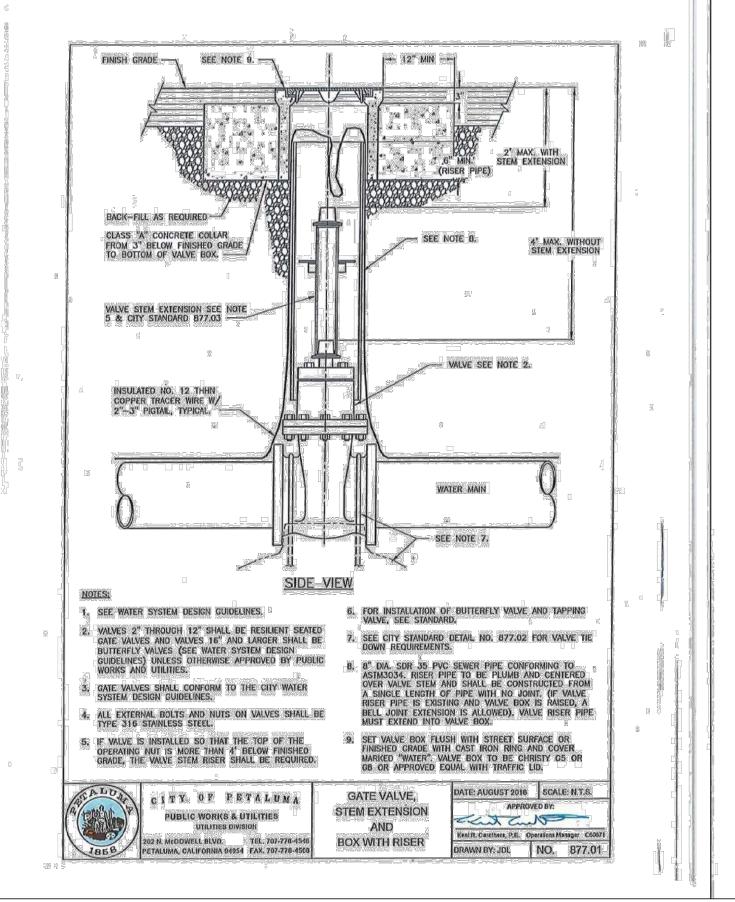
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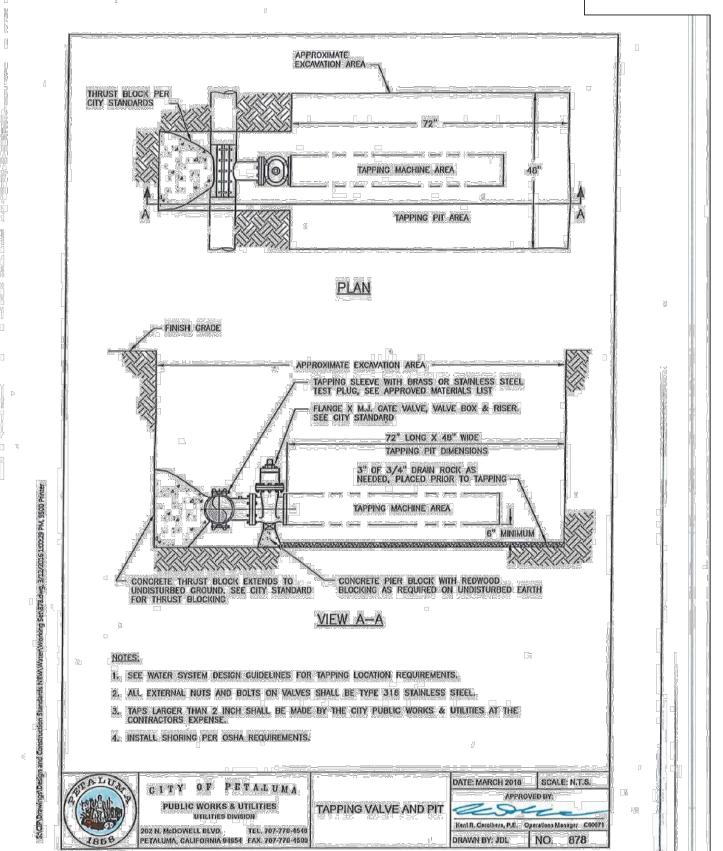


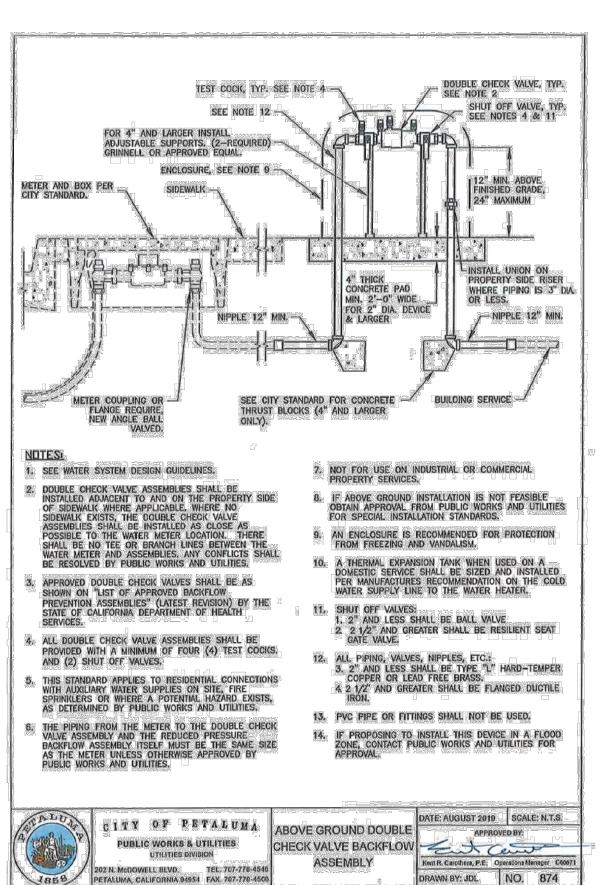




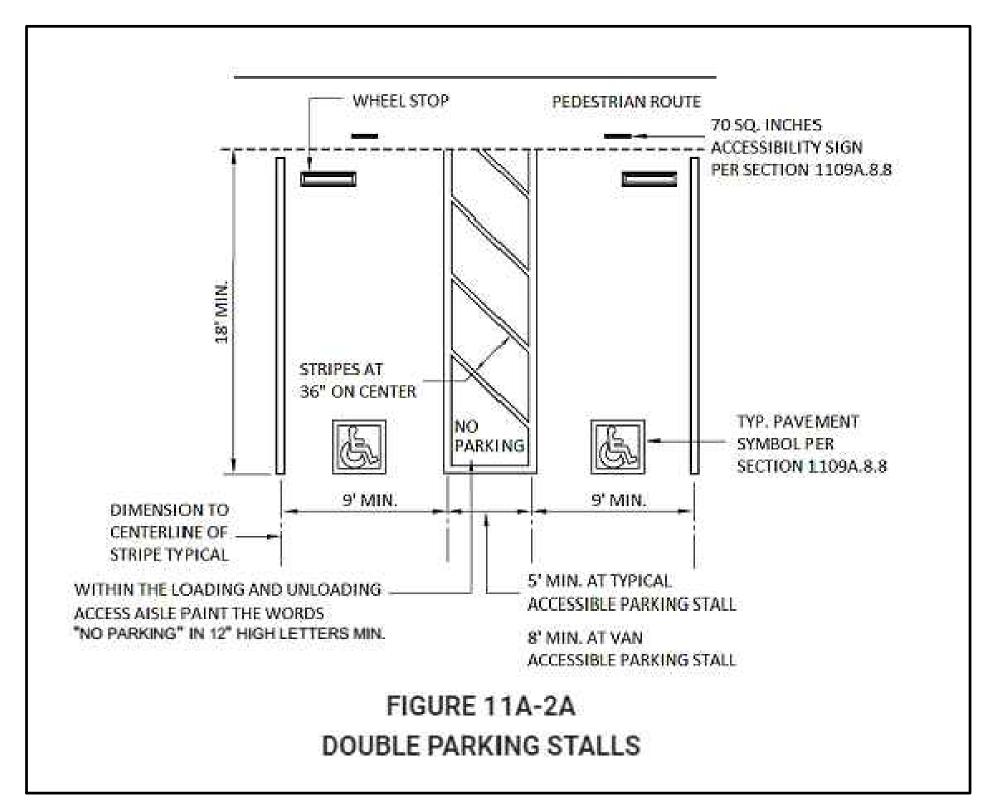




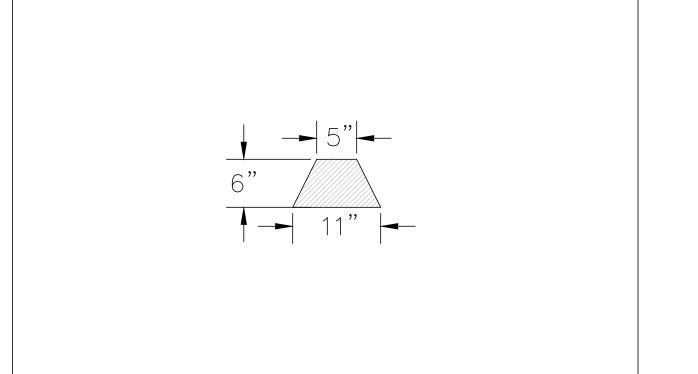




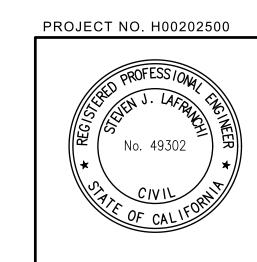
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CBC EXCERPT FOR ADA PARKING STALL STRIPING SCALE: NOT TO SCALE



**6" ASPHALT CONCRETE DIKE** SCALE: NOT TO SCALE



**REVISION LOG** 

2021.11.05 ADDENDA 1 /1

40H 

STEVEN CIVIL

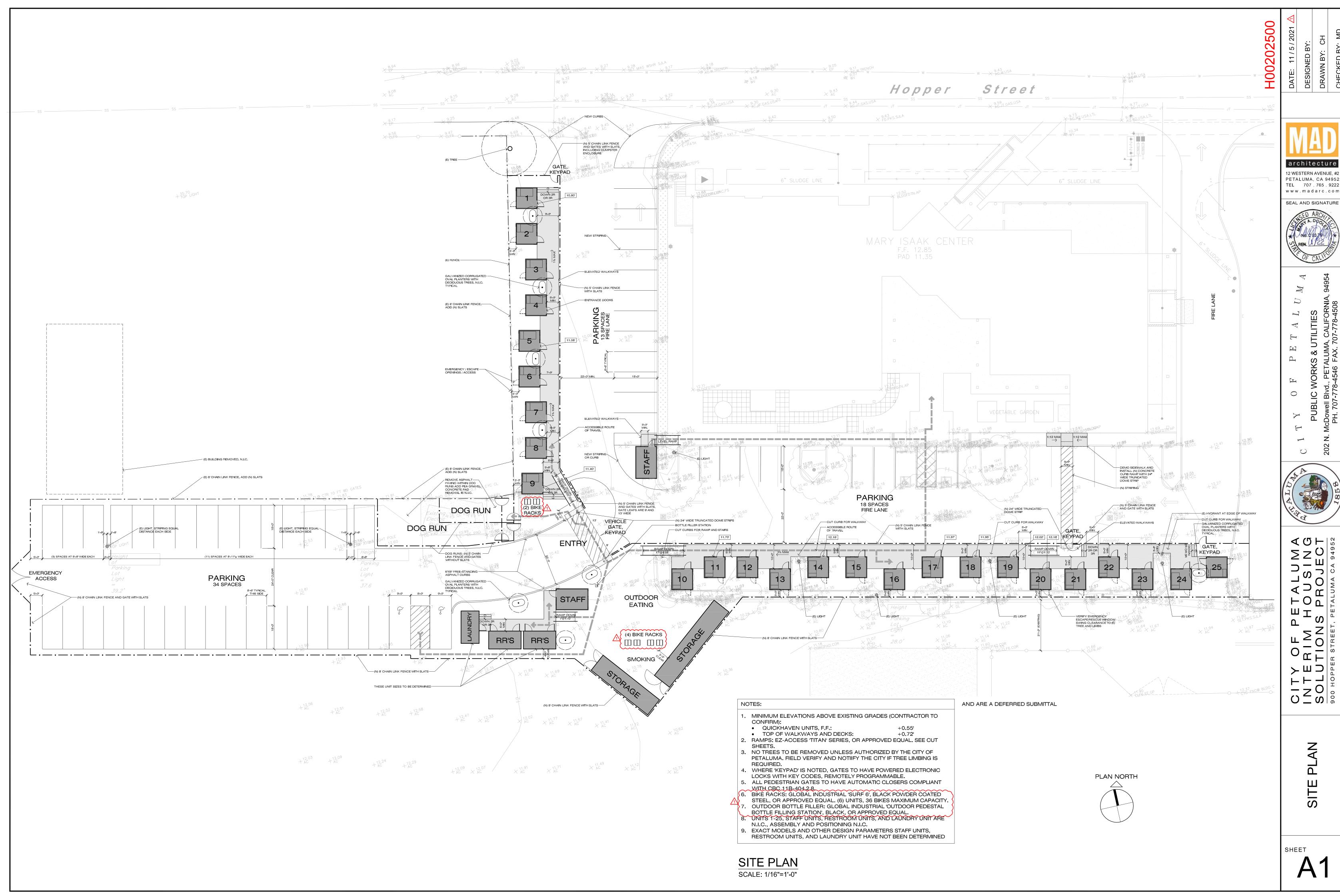
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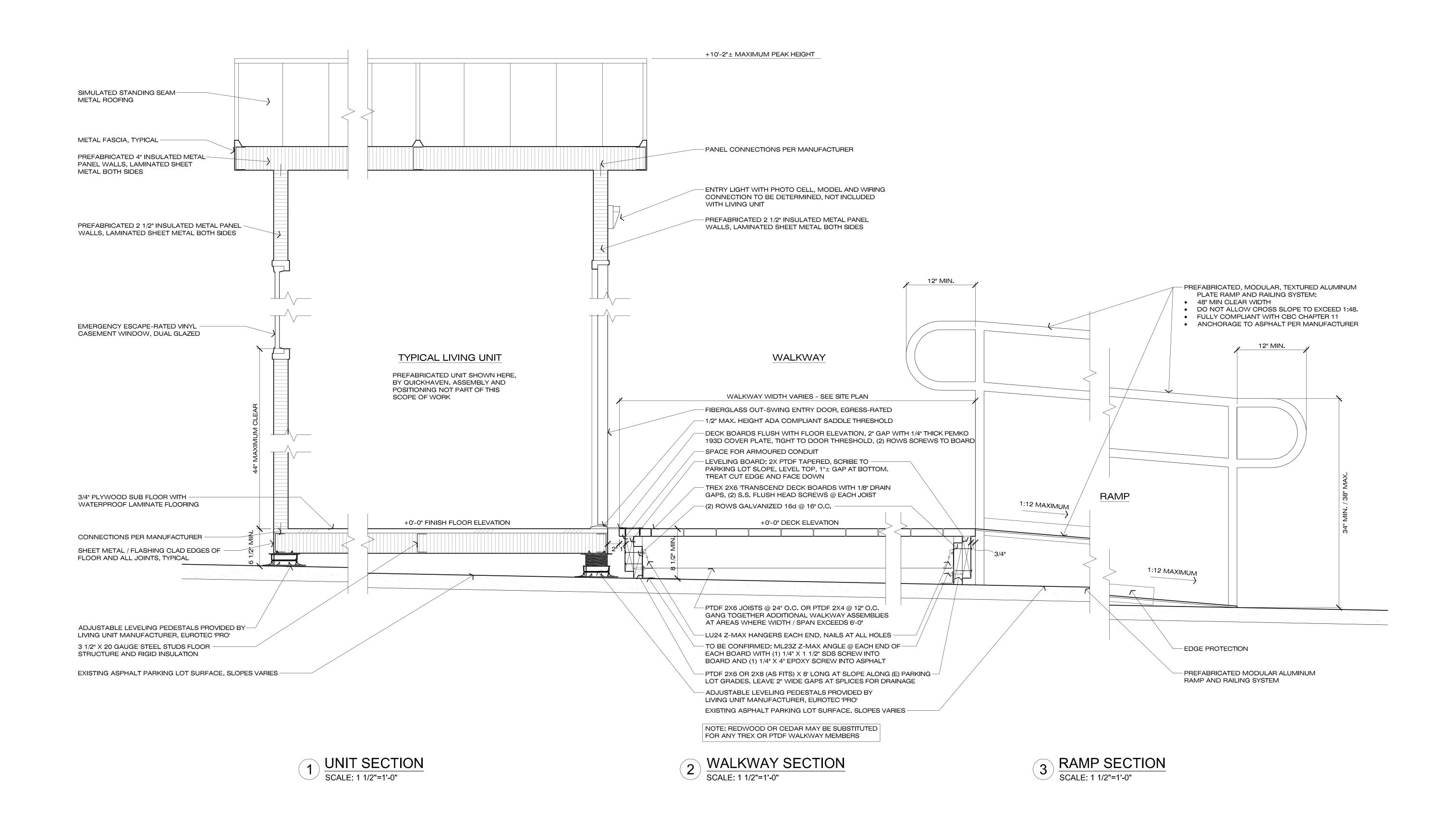
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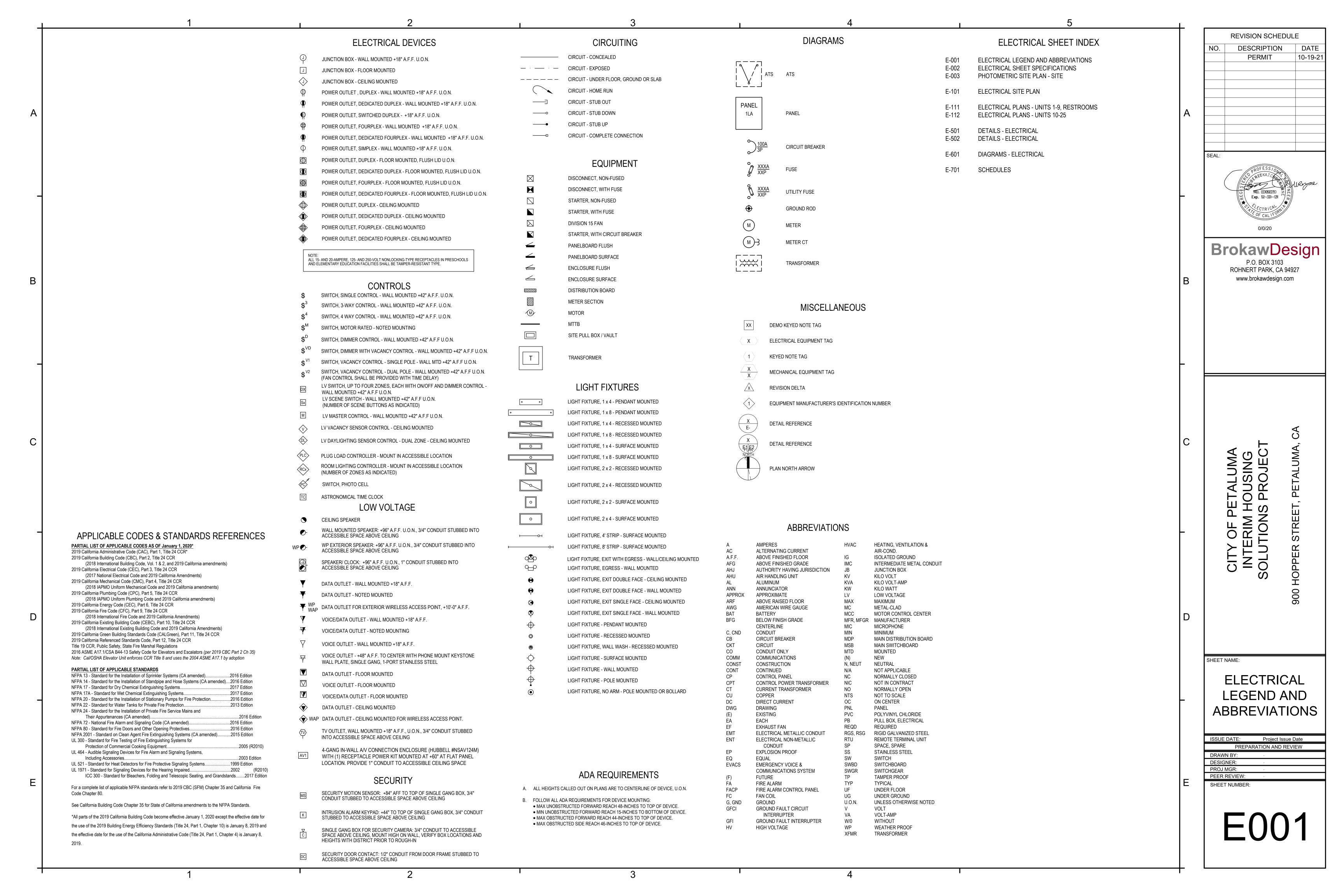






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**REVISION SCHEDULE** DESCRIPTION DATE PERMIT 10-19-21 Exp. 192-3301-1291 **Brokaw** Design P.O. BOX 3103 **ROHNERT PARK, CA 94927** www.brokawdesign.com \_ \_ \_ ER

Project Issue Date

