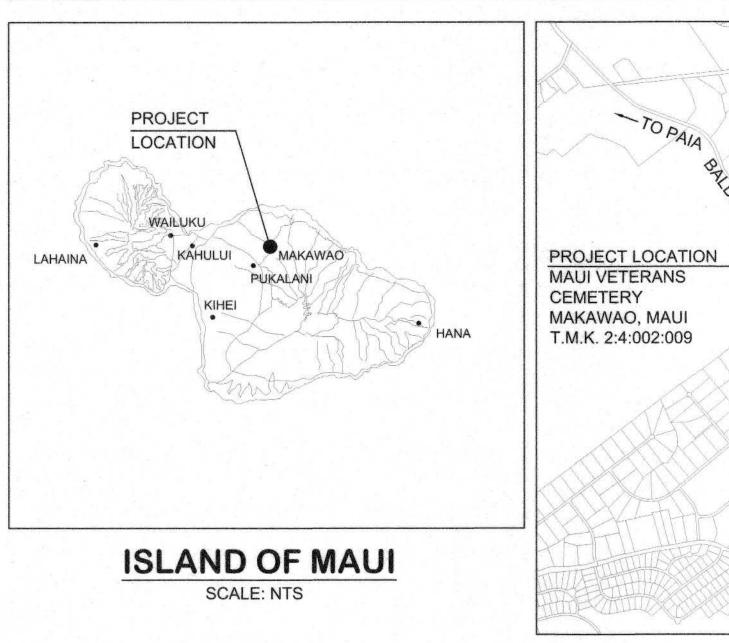
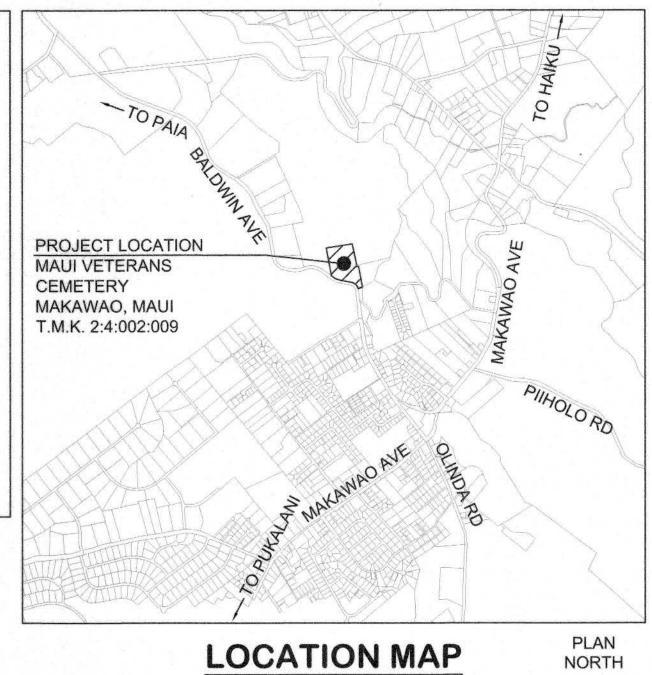
GRAVESITE RESTORATION MAUI VETERANS CEMETERY, PHASE II

MAKAWAO, ISLAND OF MAUI, HAWAII JOB NO.: CA-1208-C2 FAI NO.: HI-14-33

FOR THE
STATE OF HAWAII
DEPARTMENT OF DEFENSE
OFFICE OF VETERANS SERVICES



Revisions:



CONSULTANT	DISCIPLINE	ADDRESS
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PBR HAWAII & ASSOCIATES, INC.	LANDSCAPE ARCHITECT	1001 BISHOP STREET, SUITE 650 HONOLULU, HAWAII 96813



APPROVED:

ADJUTANT GENERAL, DEPARTMENT OF DEFENSE
STATE OF HAWAII

DIRECTOR, OFFICE OF VETERANS SERVICES, DEPARTMENT OF DEFENSE
STATE OF HAWAII

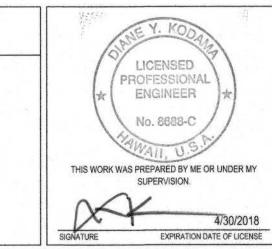
CHIEF ENGINEERING OFFICER, DEPARTMENT OF DEFENSE
STATE OF HAWAII

DATE

SHT	DWG	TITLE	SHT	DWG	TITLE
1	GI001	COVER SHEET	16	CG501	EROSION CONTROL DETAILS
2	GI002	GENERAL PLAN	17	LD-01	TREE DISPOSITION NOTES
3	C-001	CONSTRUCTION NOTES - 1	18	LD-02	OVERALL LANDSCAPE DEMOLITION PLAN
4	C-002	CONSTRUCTION NOTES - 2	19	LD-03	TREE PROTECTION DETAILS
5	CS101	GENERAL SITE PLAN	20	LP-01	OVERALL LANDSCAPE PLAN
6 - 10	CS401 - CS405	PARTIAL SITE PLANS	21 - 25	LP-02 - LP-06	LANDSCAPE SITE PLANS
11	CS501	GRAVE MARKER DETAILS - 1 'NEWER' SECTION	26	LP-07	PLANTING DETAIL & SCHEDULE
12	CS502	GRAVE MARKER DETAILS - 2 'OLDER' SECTION			
13	CS503	GRAVE MARKER TYPES			
14	CG101	EROSION CONTROL PLAN	1 2 2		
15	CG102	GRADING PLAN			

ARCHITECT / ENGINEERS:

AECOM

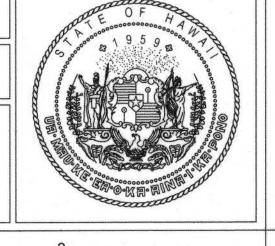


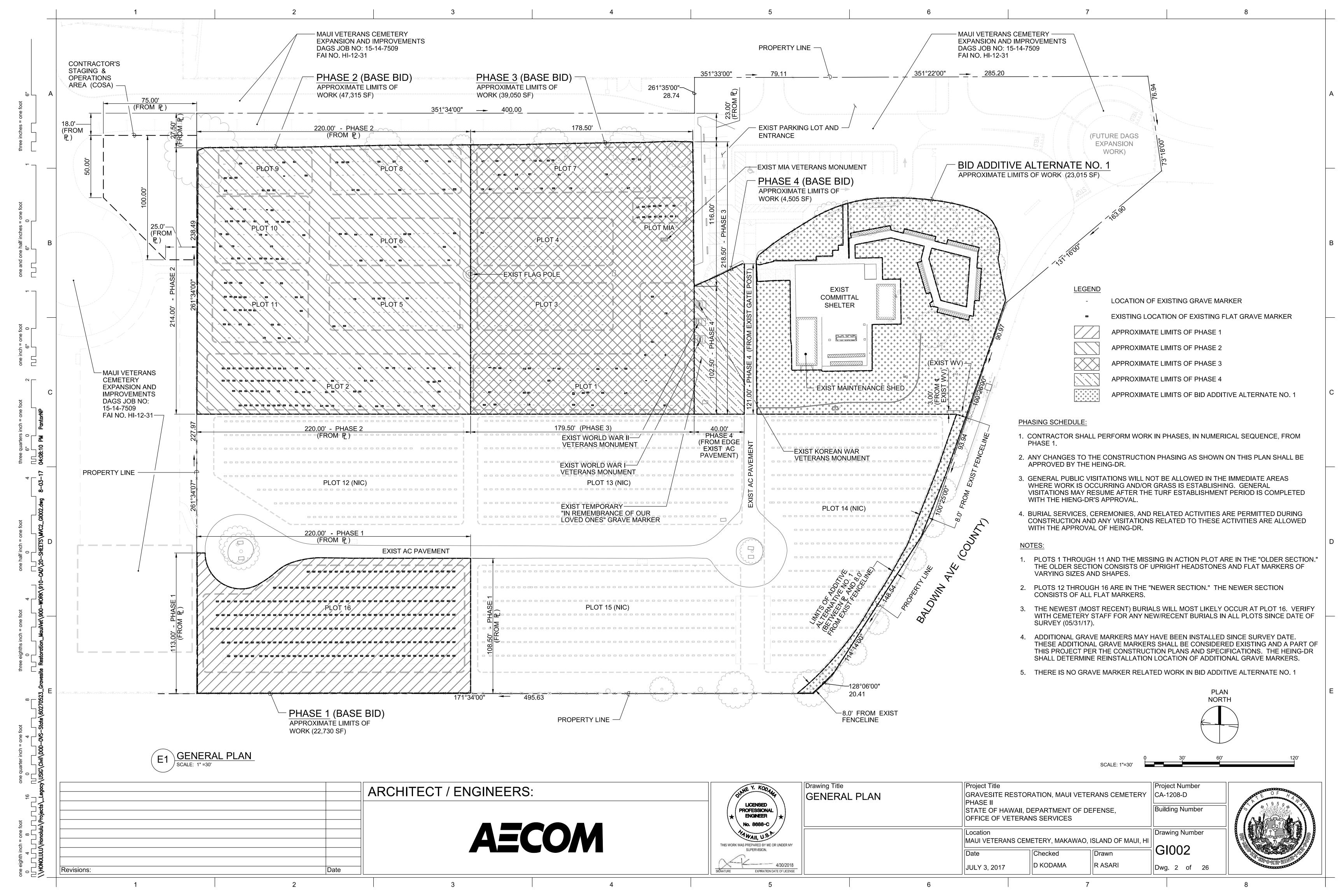
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GRAVESITE RESTORATION, MAUI VETERANS CEMETERY
PHASE II
STATE OF HAWAII, DEPARTMENT OF DEFENSE,
OFFICE OF VETERANS SERVICES

Location
MAUI VETERANS CEMETERY, MAKAWAO, ISLAND OF MAUI, HI
Date

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DWG. 1 of 26





GRADING NOTES

- ALL GRADING WORK SHALL CONFORM TO CHAPTER 20.08 OF THE MAUI COUNTY CODE, 1983, AS AMENDED, AS RELATED TO GRADING, SOIL EROSION AND SEDIMENT CONTROL, WHERE APPLICABLE.
- 2. NO CONTRACTOR SHALL PERFORM ANY GRADING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
- 3. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS CONTAINED IN THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 60.1, "AIR POLLUTION CONTROL" AND THE PROJECT SPECIFICATIONS.
- 4. ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATERS FROM DAMAGING THE CUT FACE OF AN EXCAVATION OR THE SLOPED SURFACES OF A FILL. FURTHERMORE, ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE SITE.
- . ALL SLOPES AND EXPOSED AREAS SHALL BE SODDED OR PLANTED AS SOON AS FINAL GRADES HAVE BEEN ESTABLISHED. PLANTING SHALL NOT BE DELAYED UNTIL ALL GRADING WORK HAS BEEN COMPLETED. GRADING TO FINAL GRADE SHALL BE CONTINUOUS, AND ANY AREA WITHIN WHICH WORK HAS BEEN INTERRUPTED OR DELAYED SHALL BE PLANTED.
- 6. IF APPLICABLE, FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
- 7. NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS AT ANY TIME WITHOUT PRIOR PERMISSION FROM THE HIENG-DR, PROVIDED SUCH GRADING WORK IS ALSO IN CONFORMANCE WITH THE COMMUNITY NOISE CONTROL STANDARDS CONTAINED IN THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 46, "COMMUNITY NOISE CONTROL".
- 8. THE LIMITS OF THE AREA TO BE GRADED SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.
- 9. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS" AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL" AND IF APPLICABLE, THE NPDES PERMIT FOR THE PROJECT.
- 10. WHERE APPLICABLE AND FEASIBLE THE MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY EARTH MOVING PHASE OF THE GRADING IS INITIATED.
- 11. TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.
- 12. IF THE GRADING WORK INVOLVES CONTAMINATED SOIL, THEN ALL GRADING WORK SHALL BE DONE IN CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS.
- 13. ALL GRADING AND CONSTRUCTION WORK SHALL IMPLEMENT MEASURES TO ENSURE THAT THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE WILL BE REDUCED TO THE MAXIMUM EXTENT PRACTICABLE AND WILL NOT CAUSE OR CONTRIBUTE TO AN EXCEEDANCE OF WATER QUALITY STANDARDS.
- 14. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS RESULTING FROM HIS WORK. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE DPW SHALL BE PAYABLE BY THE CONTRACTOR.
- 15. THE CONTRACTOR SHALL INFORM THE DPW OF THE LOCATION OF THE DISPOSAL AND/OR BORROW SITE(S) REQUIRED FOR THIS PROJECT WHEN AN APPLICATION FOR A GRADING PERMIT IS MADE. THE DISPOSAL AND/OR BORROW SITE(S) MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
- 16. THE CONTRACTOR SHALL REMOVE ALL VEGETATION BEFORE PLACING FILLS ON NATURAL GROUND SURFACE.
- 17. THE CONTRACTOR SHALL OBTAIN A GRADING PERMIT TWO WEEKS PRIOR TO BEGINNING OF GRADING WORK FROM THE DEPARTMENT OF PUBLIC WORKS, PERMIT SECTION. GRADING FEES SHALL BE PAID FOR BY THE CONTRACTOR.

GRADING NOTES (CONTINUED)

- 18. ALL STABILIZED SHOULDERS AND GRADED AREAS SHALL BE IN ACCORDANCE WITH NOTE 4 OF EROSION/TEMPORARY DUST CONTROL, BE PLANTED WITH PERMANENT VEGETATION COVER ACCORDING TO THE FOLLOWING:
- A. PREPARATION OF PLANTING AREA SHALL BE IN ACCORDANCE TO SPECIFICATION SECTION A.7.0.
- B. CONTRACTOR SHALL SUBMIT FERTILIZER FOR APPROVAL TO THE HIENG-DR AFTER THE CONTRACTOR SUBMITS TOPSOIL SAMPLE FOR ANALYSIS.
- C. PLANTING AND MAINTENANCE SHALL BE IN ACCORDANCE TO SECTIONS A.7.1 AND A.7.2. TEMPORARY IRRIGATION SHALL BE INSTALLED AND MAINTAINED AS NECESSARY TO ESTABLISH PLANT GROWTH FOR ACCEPTANCE.
- D. CONTRACTOR SHALL PAY FOR ALL COSTS INCURRED FOR THIS WORK AND SHOULD INCLUDE THESE COSTS IN PRICE BID. NO EXTRAS WILL BE CONSIDERED FOR MAINTENANCE PERIOD EXCEEDING 90 DAYS.
- 19. THE FOLLOWING QUANTITIES ARE PROVIDED FOR PERMIT PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING HIS OWN QUANTITIES. ESTIMATED EARTHWORK QUANTITIES (BASE BID):

EXCAVATION = 3070 CU. YDS. EMBANKMENT = 3070 CU. YDS. TOTAL GRADED AREA = 5.30 ACRES

- 20. SELECT MATERIALS SHOULD BE ON-SITE OR OFF-SITE BORROW SOILS WITH LOW SHRINK-SWELL POTENTIAL, (CBR SWELL OF LESS THAT 1%) AND WITH ROCK SIZES LESS THAN 3 INCHES AND SHOULD BE FREE FROM LARGE CLUMPS OF SOILS, ORGANIC DEBRIS, ADOBE OR OTHER DELETERIOUS MATERIAL.
- 21. NON-COMPLIANCE TO ANY OF THE ABOVE REQUIREMENTS SHALL MEAN IMMEDIATE SUSPENSION OF ALL WORK, AND REMEDIAL WORK SHALL COMMENCE IMMEDIATELY. ALL COSTS INCURRED SHALL BE BILLED TO THE VIOLATOR. FURTHERMORE, VIOLATORS SHALL BE SUBJECTED TO ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES.
- 22. FOR BENCH MARKS, SEE DRAWING NO. CS101.

CONSTRUCTION NOTES:

- 1. ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," DATED SEPTEMBER 1986, AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION," DATED SEPTEMBER 1984, AS AMENDED, OF THE DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF HONOLULU AND THE COUNTIES OF KAUAI, MAUI AND HAWAII.
- 2. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR NEW LINES.
- 3. CONFINED SPACE (IF APPLICABLE)

FOR ENTRY BY COUNTY PERSONNEL, INCLUDING INSPECTORS, INTO A PERMIT-REQUIRED CONFINED SPACE AS DEFINED IN 29 CFR PART 1910.146(B), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING:

- ALL SAFETY EQUIPMENT REQUIRED BY THE CONFINED SPACE REGULATIONS APPLICABLE TO ALL PARTIES OTHER THAN THE CONSTRUCTION INDUSTRY, TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
- A. FULL-BODY HARNESSES FOR UP TO TWO (2) PERSONNEL.
- B. LIFELINE AND ASSOCIATED CLIPS.
- C. INGRESS/EGRESS AND FALL PROTECTION EQUIPMENT
- D. TWO-WAY RADIOS (WALKIE-TALKIES) IF OUT OF LINE-OF-SIGHT.
- E. EMERGENCY (ESCAPE) RESPIRATOR (10-MINUTE DURATION)
- F. CELLULAR TELEPHONE TO CALL FOR EMERGENCY ASSISTANCE.
- G. CONTINUOUS GAS DETECTOR (CALIBRATED) TO MEASURE OXYGEN, HYDROGEN SULFIDE, CARBON MONOXIDE AND FLAMMABLES CAPABLE OF MONITORING AT A DISTANCE AT LEAST 20 FEET AWAY).
- H. PERSONAL MULTI-GAS DETECTOR TO BE CARRIED BY INSPECTOR.I. CONTINUOUS FORCED-AIR VENTILATION ADEQUATE TO PROVIDE SAFE
- CONTINUOUS FORCED-AIR VENTILATION ADEQUATE TO PROVIDE SAF ENTRY CONDITIONS.
- J. ONE (1) ATTENDANT/RESCUE PERSONNEL TOPSIDE (TWO [2], IF CONDITIONS WARRANT IT).

CONSTRUCTION NOTES (CONTINUED)

- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS," AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL," AS WELL AS, CHAPTER 14 OF THE REVISED ORDINANCES OF HONOLULU, AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.
- 5. PURSUANT TO CHAPTER 6E, HRS, IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK AND NOTIFY THE HIENG-DR, THE MAUI POLICE DEPARTMENT, THE STATE DEPARTMENT OF LAND AND NATURAL RESOURCES-HISTORIC PRESERVATION DIVISION (692-8015).
- 6. AZIMUTHS ARE MEASURED CLOCKWISE FROM ZERO DEGREES DUE SOUTH.
- 7. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES, PAY ALL CHARGES, FEES AND TAXES, GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN AND SPECIFIED.
- 8. THE CONTRACTOR SHALL PROVIDE ACCESS TO AND FROM DRIVEWAYS AND PUBLIC STREETS AT ALL TIMES EXCEPT AS NOTED ON THE PLANS.
- 9. IF TRENCH EXCAVATION IS ADJACENT TO OR UNDER EXISTING STRUCTURES OR FACILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SHEETING AND BRACING THE EXCAVATION AND STABILIZING THE EXISTING GROUND TO RENDER IT SAFE AND SECURE FROM POSSIBLE SLIDES, CAVE-INS AND SETTLEMENT AND FOR PROPERLY SUPPORTING EXISTING STRUCTURES AND FACILITIES WITH BEAMS, STRUTS OR UNDER-PINNING TO FULLY PROTECT THEM FROM DAMAGE.
- 10. THE CONTRACTOR SHALL VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE HIENG-DR.
- 11. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATIONS OF ALL UTILITIES IN THE PROJECT AREA PRIOR TO EXCAVATION. THE CONTRACTOR SHALL COORDINATE ALL WORK.
- 12. THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ALL IMPROVEMENTS DAMAGED AS A RESULT OF THE CONSTRUCTION, INCLUDING PAVEMENTS, SIDEWALKS, EMBANKMENTS, CURBS AND GUTTERS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALLS, FENCES, ETC.
- 13. THE CONTRACTOR SHALL ADJUST ALL UTILITY VALVE BOX FRAMES & COVERS, WATER METER BOXES, MANHOLE FRAMES & COVERS, STREET MONUMENT COVERS, ETC. TO NEW FINISH GRADE. THE CONTRACTOR SHALL COORDINATE WITH THE PRIVATE COMPANIES AND COUNTY AGENCIES FOR HIS WORK ON EACH RESPECTIVE UTILITY.
- 14. THE CONTRACTOR SHALL REMOVE ALL ORGANIC DEBRIS FROM CLEARING AND GRUBBING OPERATIONS AND STOCKPILE TOP SOIL FOR ON-SITE USE DURING GRASSING.
- 15. WORK INCIDENTAL TO THE CONTRACT AND NECESSARY TO COMPLETE THE PROJECT, ALTHOUGH NOT SPECIFICALLY REFERRED TO ON THE CONTRACT DOCUMENTS, SHALL BE FURNISHED AND PERFORMED BY THE CONTRACTOR.
- 16. THE CONTRACTOR SHALL COORDINATE WITH THE CEMETERY'S POINT(S) OF CONTACT AND HIENG-DR FOR THE FOLLOWING ITEMS:
- AND HIENG-DR FOR THE FOLLOWING ITEMS:
- A. LOCATION AND SIZE OF CONTRACTOR OPERATIONS AND STAGING AREA. B. GRASSING.
- C. CONNECTIONS TO EXISTING UTILITY LINES AND TEMPORARY SHUT DOWN OF
- WATER SYSTEM (IRRIGATION SYSTEM).

 D. SITE ACCESS AND PARKING FOR CONSTRUCTION WORKERS AND GOVERNMENT
- INSPECTORS.

 E TEMPORARY LITH ITY CONNECTIONS FOR CONSTRUCTION (WATER TELEPHONE
- E. TEMPORARY UTILITY CONNECTIONS FOR CONSTRUCTION (WATER, TELEPHONE, INTERNET, ETC.), IF AVAILABLE.
- F. RESTROOM USAGE FOR CONSTRUCTION WORKERS AND TEMPORARY OFFICE SPACE. IF AVAILABLE.
- G. SAFETY OF THE PUBLIC, FACULTY AND STAFF.

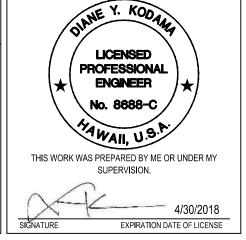
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- 17. GRAVE MARKER INFORMATION AND PRE-CONSTRUCTION PHOTOGRAPHS WERE SUBMITTED TO THE HIENG-DR AS DIGITAL FILES ON ONE OR MORE USB-TYPE DRIVES (A.K.A. PORTABLE THUMB DRIVE, FLASH DRIVE) AND WILL BE PROVIDED TO THE CONTRACTOR.
- 18. ALL EXISTING MONUMENTS, STRUCTURES, COLUMBARIUMS, BENCHES, SECTION MARKERS, PLOT MARKERS, SIGNS, ETC. SHALL BE PROTECTED FROM DAMAGE AND ALTERATION DURING CONSTRUCTION.

ARCHITECT / ENGINEERS:





CONSTRUCTION NOTES - 1

Project Title
GRAVESITE RESTORATION, MAUI VETERANS CEMETERY
PHASE II
STATE OF HAWAII, DEPARTMENT OF DEFENSE,
OFFICE OF VETERANS SERVICES

MAUI VETERANS CEMETERY, MAKAWAO, ISLAND OF MAUI,

Checked

JULY 3, 2017

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Building Number

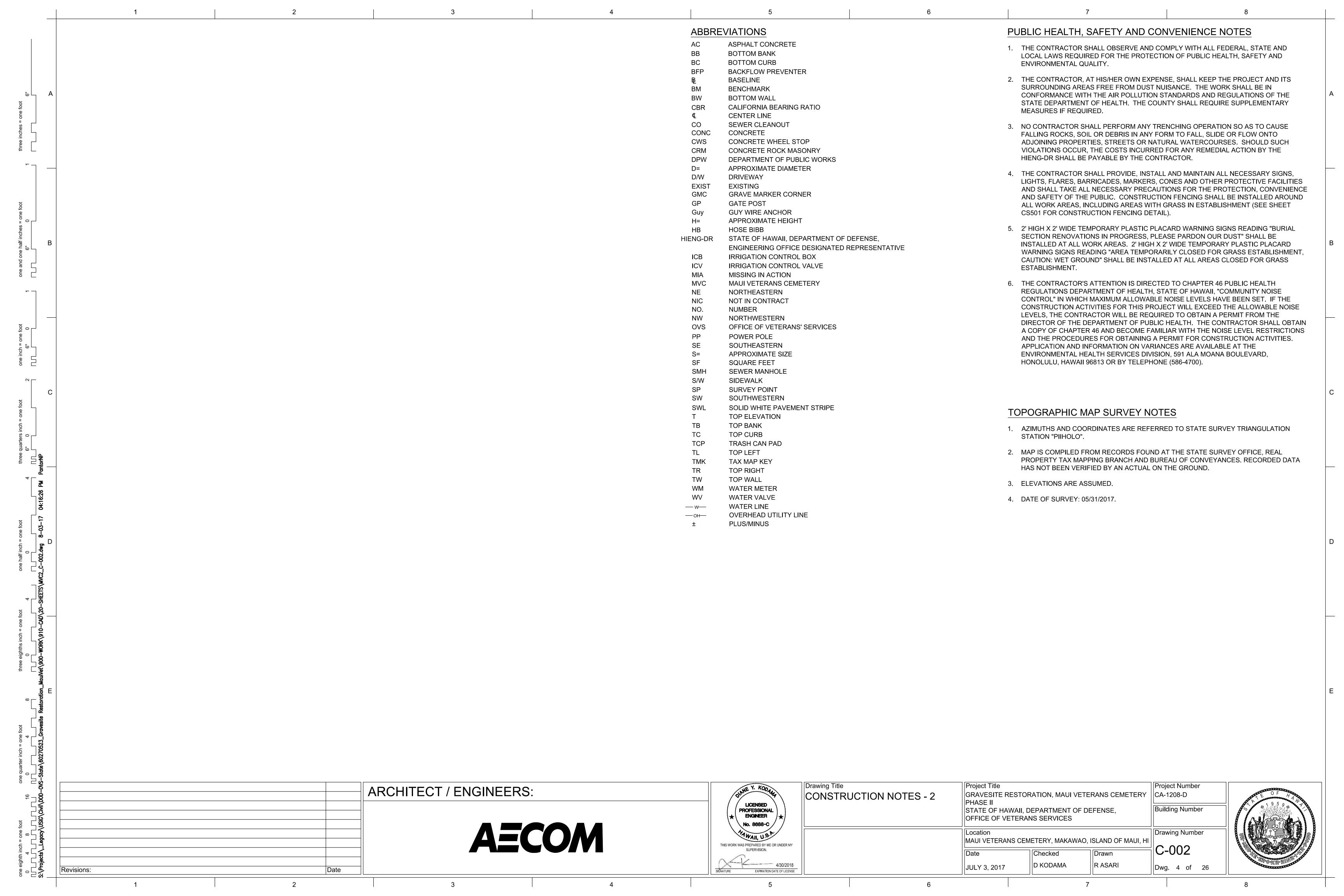
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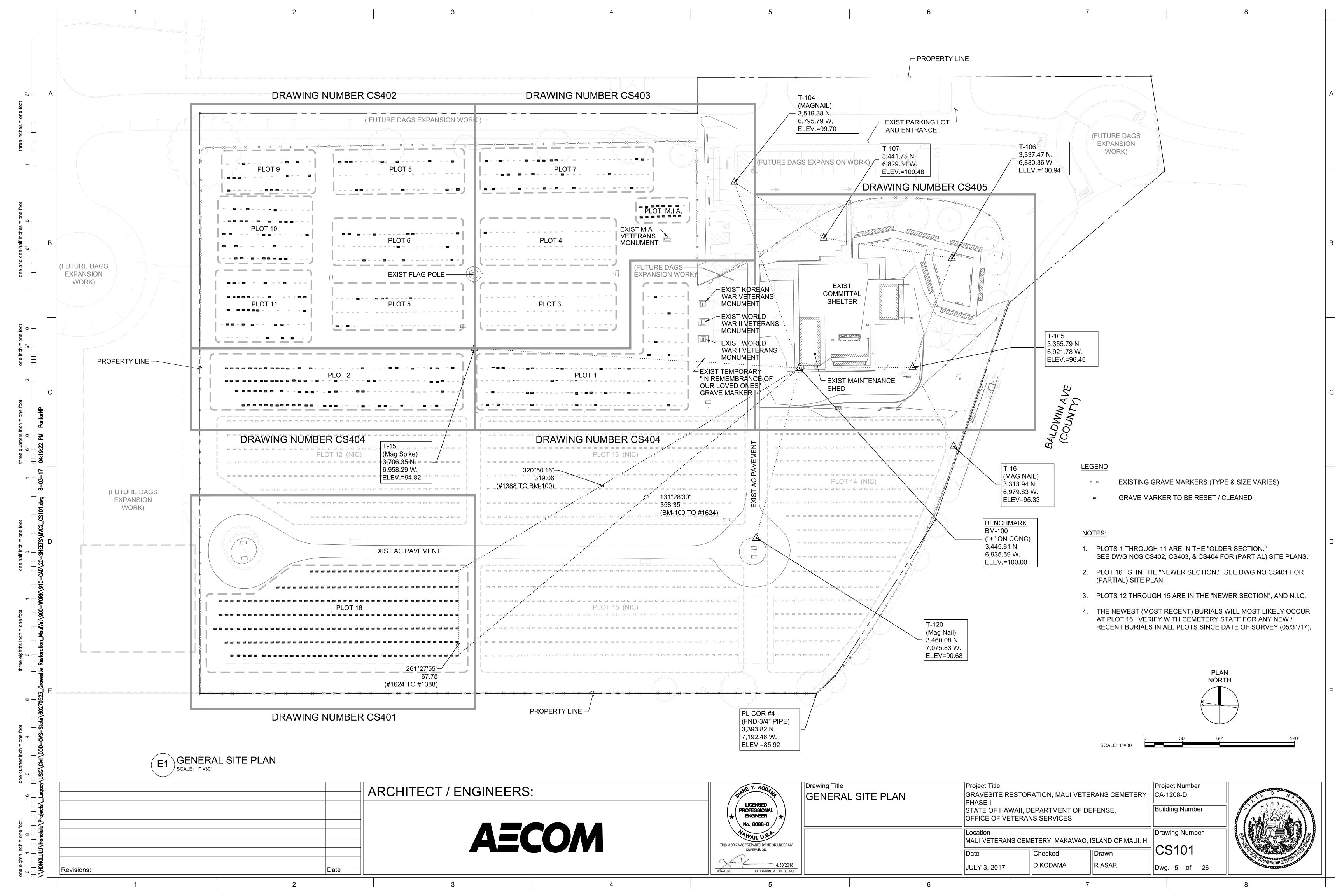
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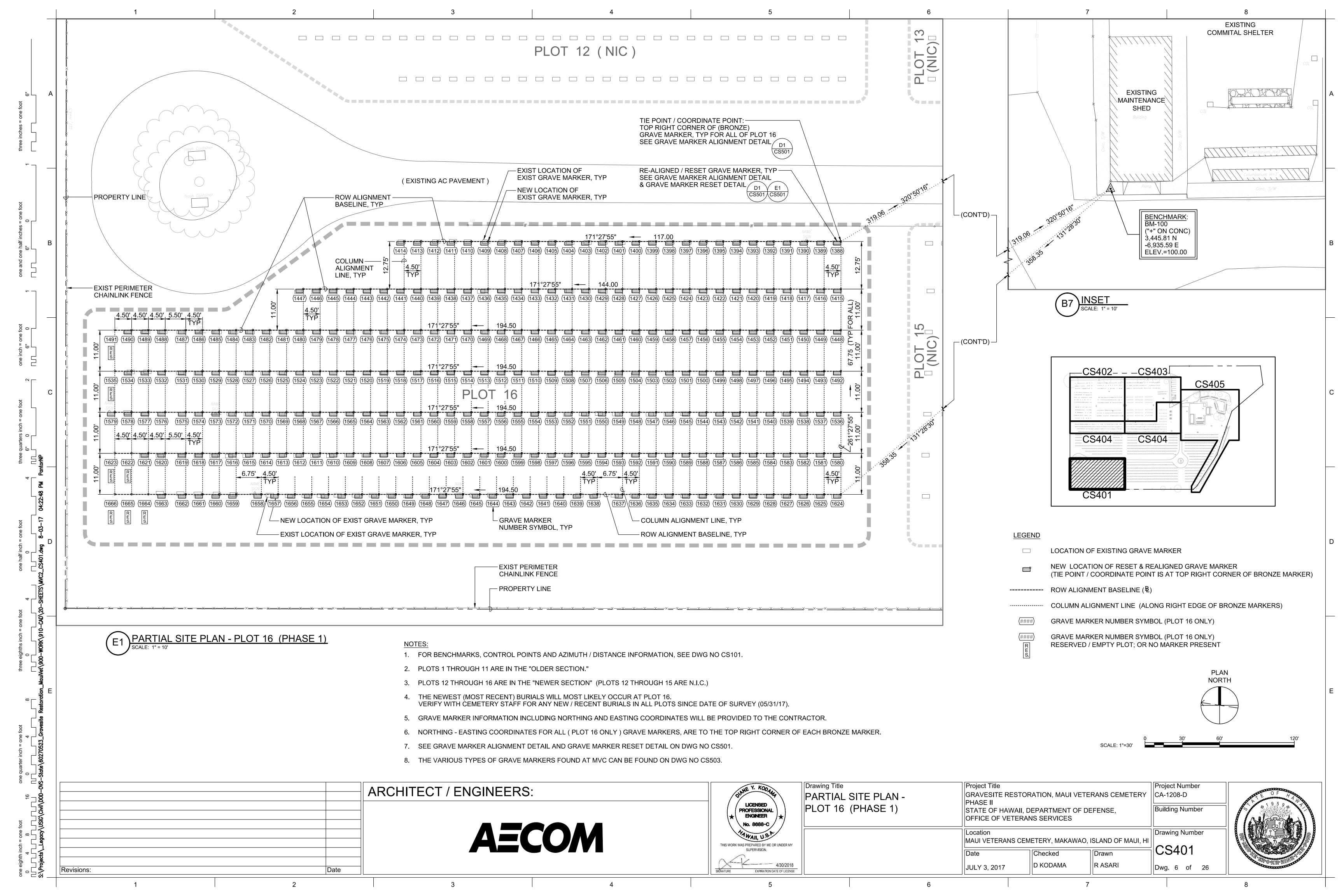
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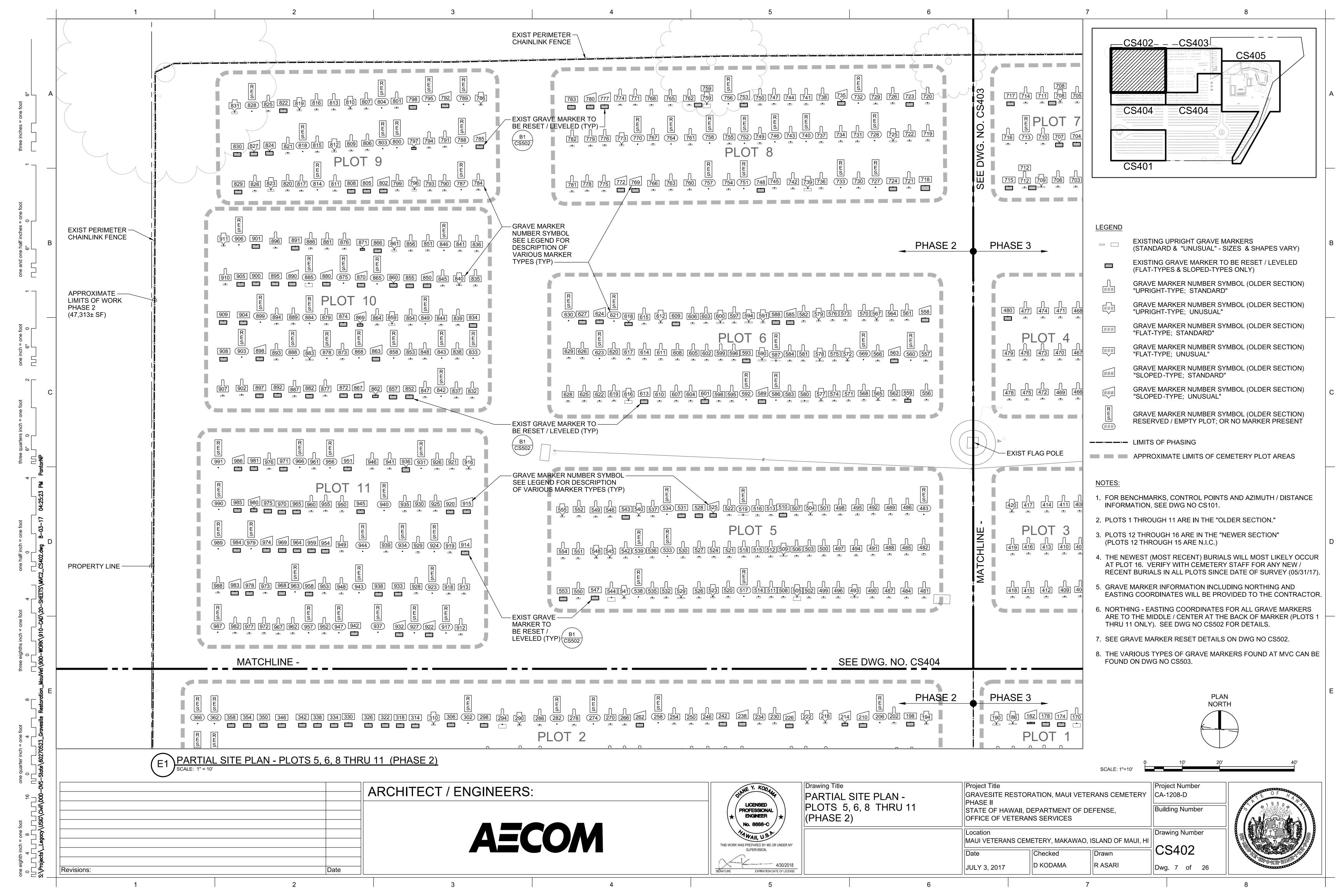
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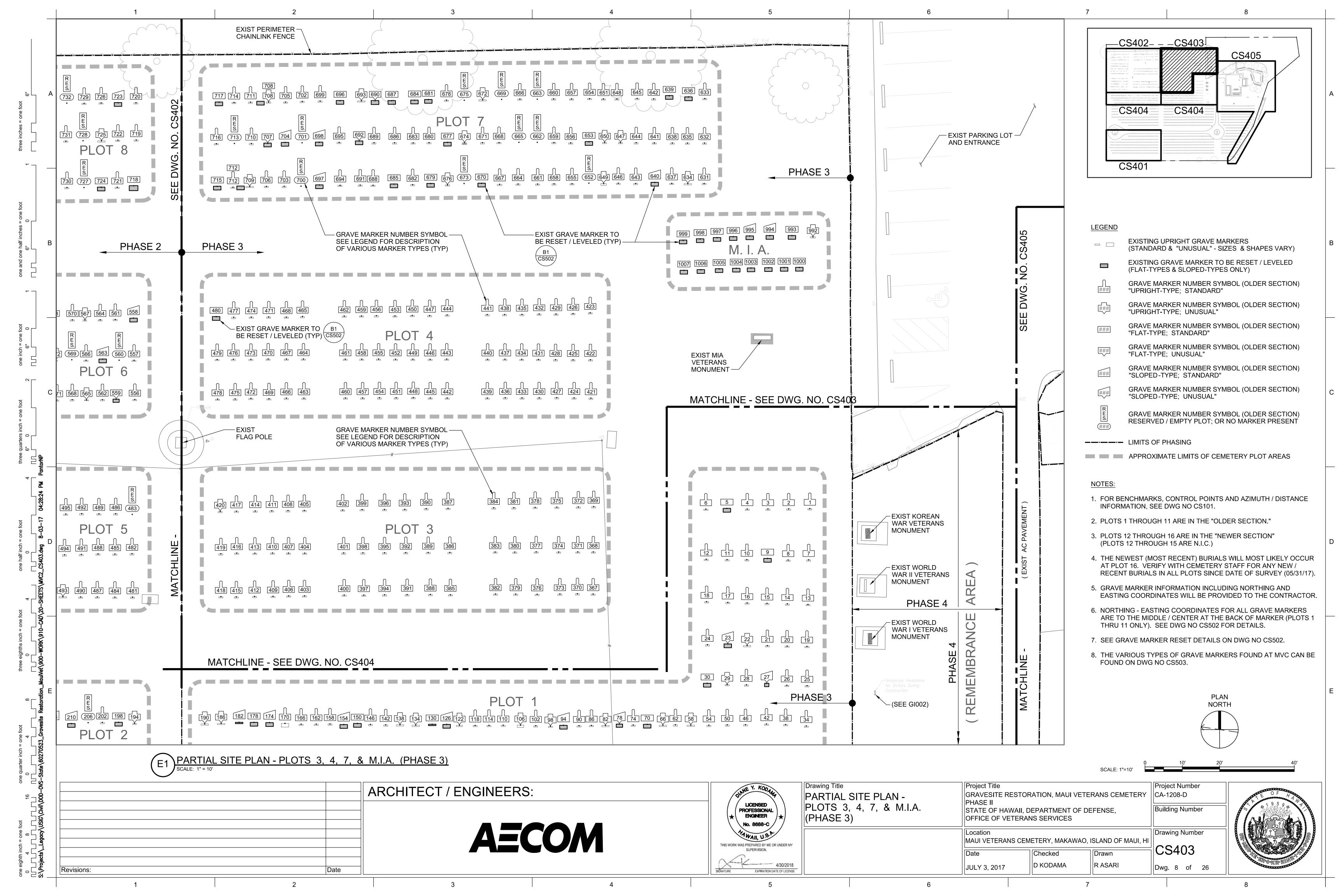


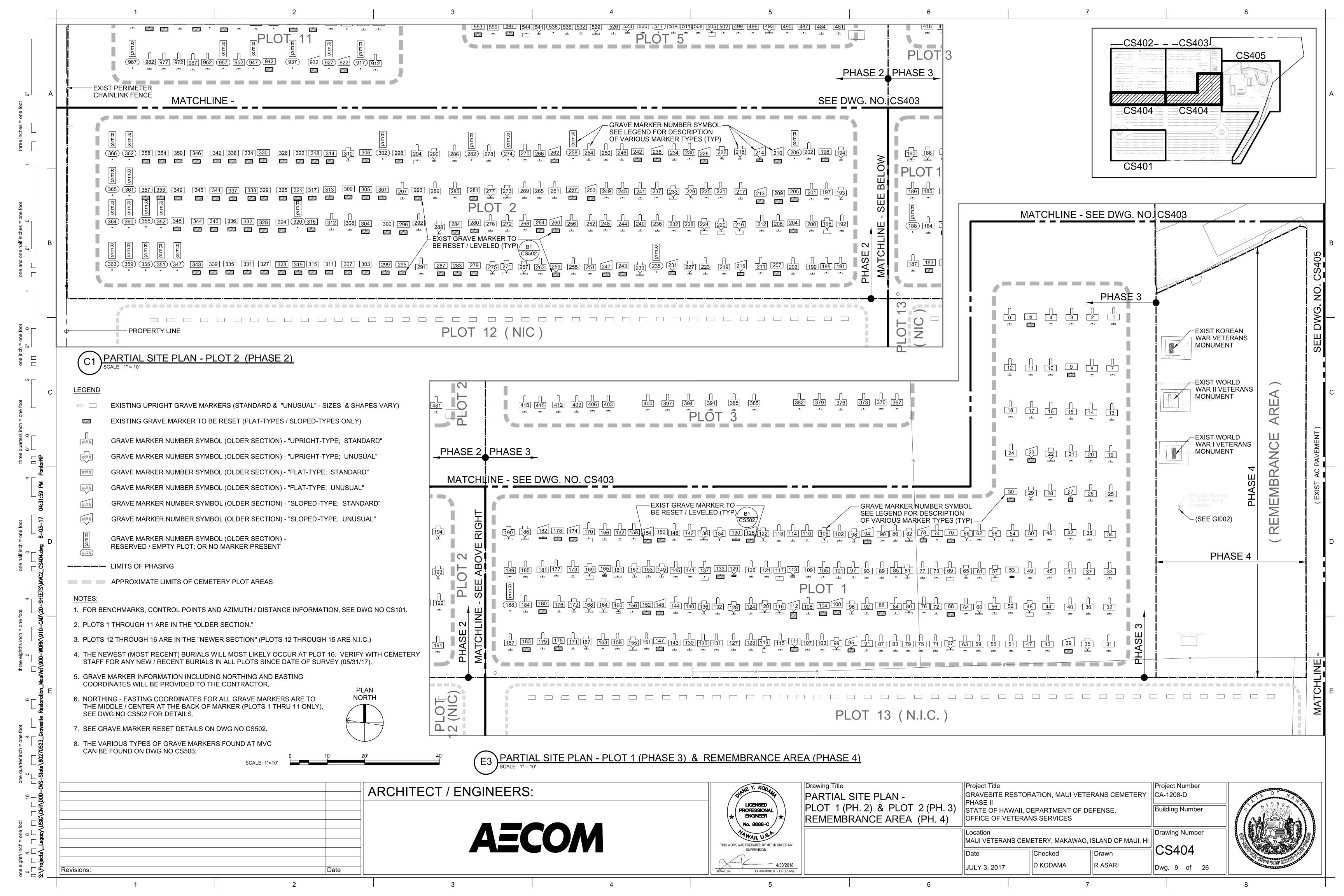


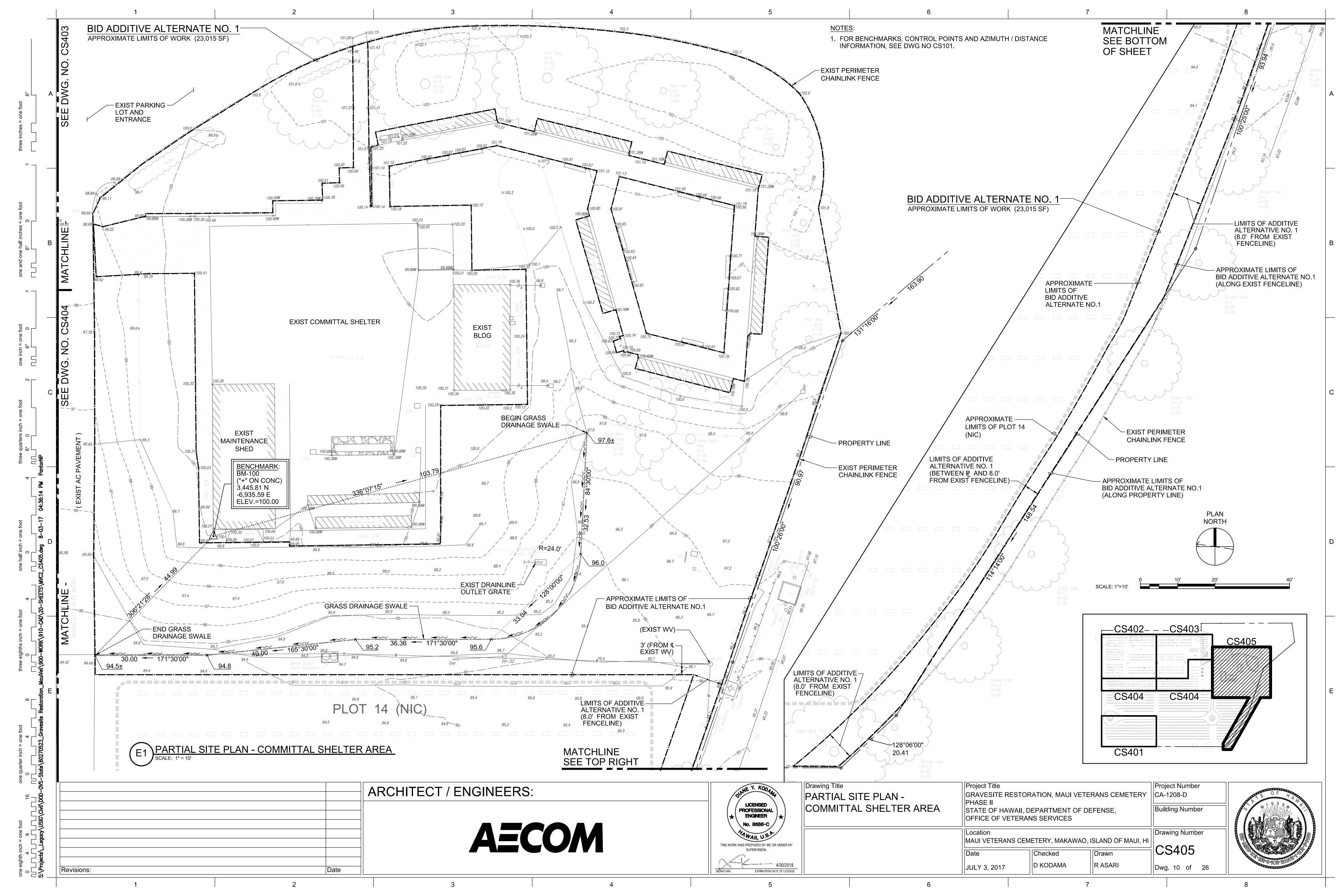


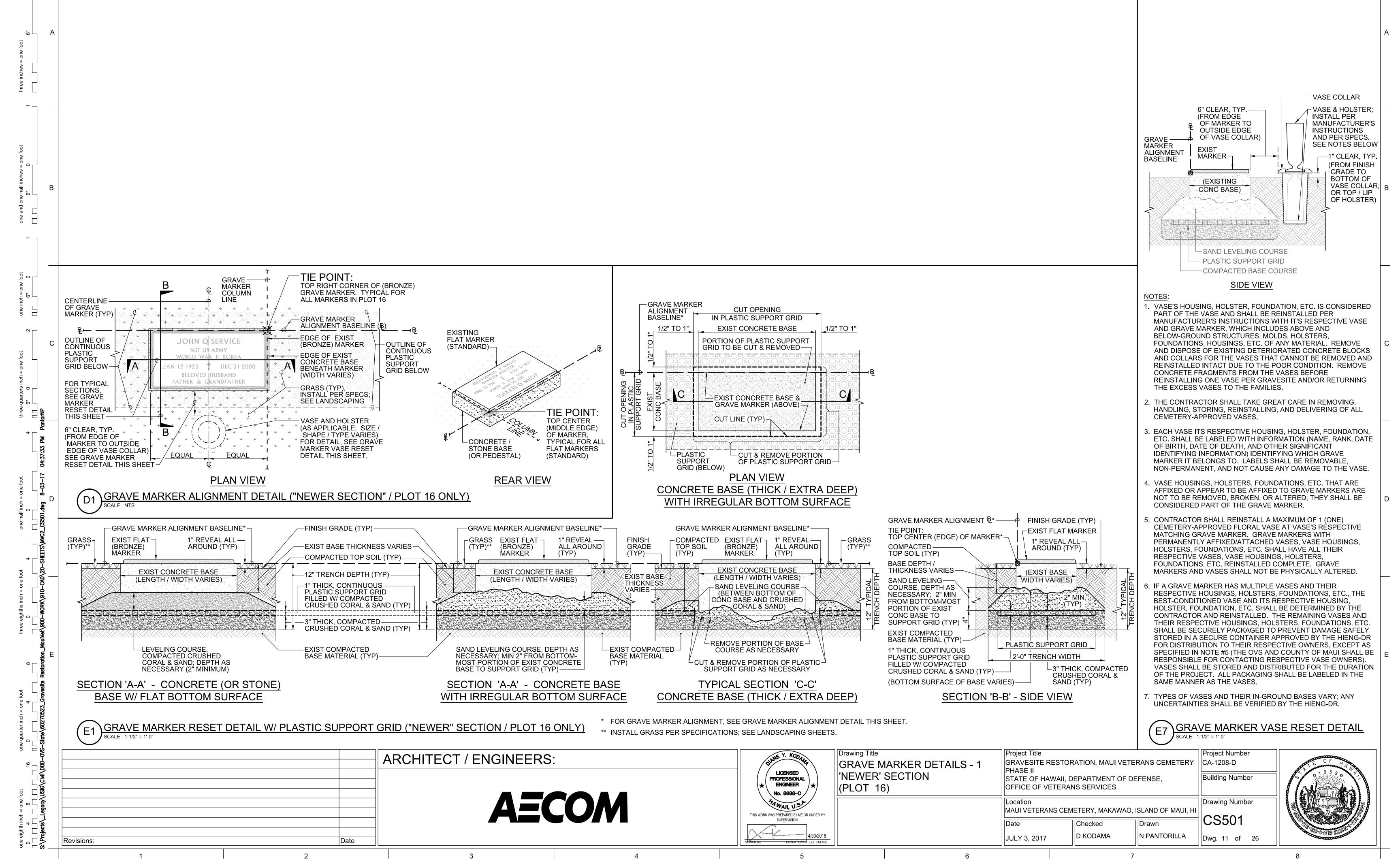


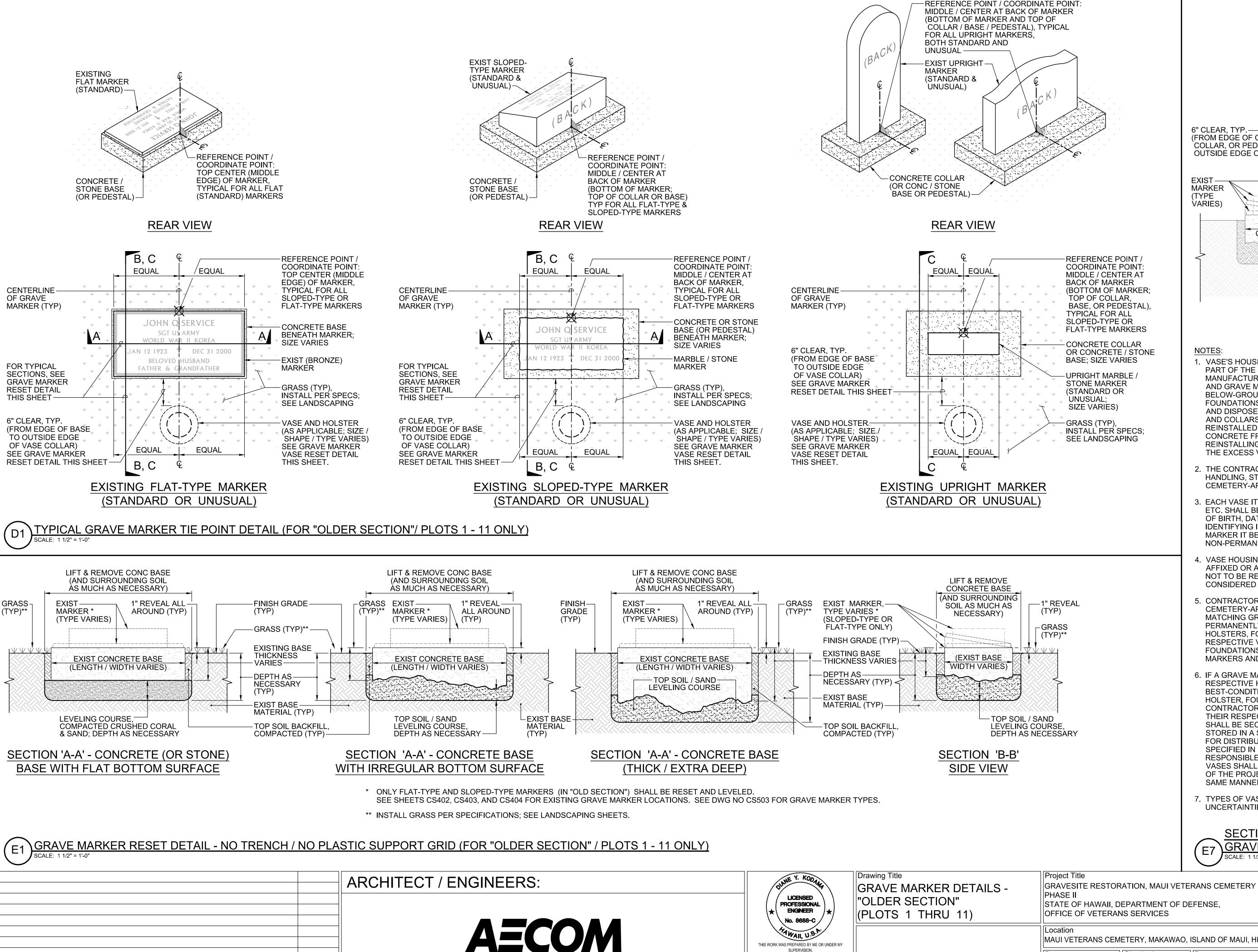












Revisions:

Date

THIS WORK WAS PREPARED BY ME OR UNDER MY

4/30/2018

EXPIRATION DATE OF LICENSE

SUPERVISION.

- VASE COLLAR 6" CLEAR, TYP. FROM EDGE OF CONC BASE -VASE & HOLSTER; COLLAR, OR PEDESTAL TO INSTALL PER OUTSIDE EDGE OF VASE COLLARY MANUFACTURER'S INSTRUCTIONS AND PER SPECS EXIST-**SEE NOTES BELOW MARKER** (TYPE -1" CLEAR, TYP. **VARIES**) (FROM FINISH GRADE TO **BOTTOM OF** (EXISTING VASE COLLAR CONC BASE) OR TOP / LIP OF HOLSTER) -(TOP SOIL / SAND LEVELING COURSE)

SIDE VIEW

- 1. VASE'S HOUSING, HOLSTER, FOUNDATION, ETC. IS CONSIDERED PART OF THE VASE AND SHALL BE REINSTALLED PER MANUFACTURER'S INSTRUCTIONS WITH IT'S RESPECTIVE VASE AND GRAVE MARKER, WHICH INCLUDES ABOVE AND BELOW-GROUND STRUCTURES, MOLDS, HOLSTERS FOUNDATIONS, HOUSINGS, ETC. OF ANY MATERIAL. REMOVE AND DISPOSE OF EXISTING DETERIORATED CONCRETE BLOCKS AND COLLARS FOR THE VASES THAT CANNOT BE REMOVED AND REINSTALLED INTACT DUE TO THE POOR CONDITION. REMOVE CONCRETE FRAGMENTS FROM THE VASES BEFORE REINSTALLING ONE VASE PER GRAVESITE AND/OR RETURNING THE EXCESS VASES TO THE FAMILIES.
- 2. THE CONTRACTOR SHALL TAKE GREAT CARE IN REMOVING. HANDLING, STORING, REINSTALLING, AND DELIVERING OF ALL **CEMETERY-APPROVED VASES**
- 3. EACH VASE ITS RESPECTIVE HOUSING, HOLSTER, FOUNDATION ETC. SHALL BE LABELED WITH INFORMATION (NAME, RANK, DATE OF BIRTH, DATE OF DEATH, AND OTHER SIGNIFICANT IDENTIFYING INFORMATION) IDENTIFYING WHICH GRAVE MARKER IT BELONGS TO. LABELS SHALL BE REMOVABLE, NON-PERMANENT, AND NOT CAUSE ANY DAMAGE TO THE VASE.
- 4. VASE HOUSINGS, HOLSTERS, FOUNDATIONS, ETC. THAT ARE AFFIXED OR APPEAR TO BE AFFIXED TO GRAVE MARKERS ARE NOT TO BE REMOVED, BROKEN, OR ALTERED; THEY SHALL BE CONSIDERED PART OF THE GRAVE MARKER.
- 5. CONTRACTOR SHALL REINSTALL A MAXIMUM OF 1 (ONE) CEMETERY-APPROVED FLORAL VASE AT VASE'S RESPECTIVE MATCHING GRAVE MARKER. GRAVE MARKERS WITH PERMANENTLY AFFIXED/ATTACHED VASES, VASE HOUSINGS, HOLSTERS, FOUNDATIONS, ETC. SHALL HAVE ALL THEIR RESPECTIVE VASES, VASE HOUSINGS, HOLSTERS FOUNDATIONS, ETC. REINSTALLED COMPLETE. GRAVE MARKERS AND VASES SHALL NOT BE PHYSICALLY ALTERED.
- 6. IF A GRAVE MARKER HAS MULTIPLE VASES AND THEIR RESPECTIVE HOUSINGS, HOLSTERS, FOUNDATIONS, ETC., THE BEST-CONDITIONED VASE AND ITS RESPECTIVE HOUSING, HOLSTER, FOUNDATION, ETC. SHALL BE DETERMINED BY THE CONTRACTOR AND REINSTALLED. THE REMAINING VASES AND THEIR RESPECTIVE HOUSINGS, HOLSTERS, FOUNDATIONS, ETC SHALL BE SECURELY PACKAGED TO PREVENT DAMAGE SAFELY STORED IN A SECURE CONTAINER APPROVED BY THE HIENG-DR FOR DISTRIBUTION TO THEIR RESPECTIVE OWNERS, EXCEPT AS SPECIFIED IN NOTE #5 (THE OVS AND COUNTY OF MAUI SHALL BE RESPONSIBLE FOR CONTACTING RESPECTIVE VASE OWNERS) VASES SHALL BE STORED AND DISTRIBUTED FOR THE DURATION OF THE PROJECT. ALL PACKAGING SHALL BE LABELED IN THE SAME MANNER AS THE VASES.
- 7. TYPES OF VASES AND THEIR IN-GROUND BASES VARY: ANY UNCERTAINTIES SHALL BE VERIFIED BY THE HIENG-DR.

SECTION 'C-C'

GRAVE MARKER VASE RESET DETAIL

SCALE: 1 1/2" = 1'-0 Project Number CA-1208-D

Building Number

Drawing Number

Dwg. 12 of 26

CS502

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Checked

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Date

JULY 3, 2017





FLAT TYPE 6 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: CONCRETE BASE WITH HOLE(S) TO ACCOMMODATE [NON-STANDARD] VASE.



FLAT TYPE 2 ('STANDARD')
GRAVE MARKER NUMBER SYMBOL: ### **DESCRIPTION:**





FLAT TYPE 7 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: MARBLE / STONE MARKER ON CONC BASE. (BOTTOM OF BASE MAY OR MAY NOT BE FLAT)



FLAT TYPE 3 ('STANDARD')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: VASE CONC EMBEDMENT MAY OR MAY NOT BE ATTACHED TO CONC BASE OF MARKER



FLAT TYPE 8 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### BASE. LARGER / THICKER THAN TYPICAL MARKER.



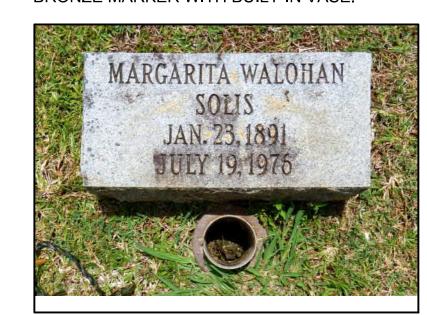
FLAT TYPE 4 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### BRONZE MARKER WITH BUILT-IN VASE.



FLAT TYPE 9 ('UNUSUAL') GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: MARBLE / STONE MARKER ON MARBLE / STONE BASE.



FLAT TYPE 5 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### BRONZE MARKER WITH BUILT-IN VASE.



FLAT TYPE 10 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: MARBLE / STONE MARKER; MAY OR MAY NOT HAVE A BASE OR PEDESTAL BELOW.



SLOPED TYPE 1 ('STANDARD')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: STANDARD / TYPICAL (MVC-APPROVED) BRONZE MARKER ON CONC BASE W/ SLOPED SURFACE.



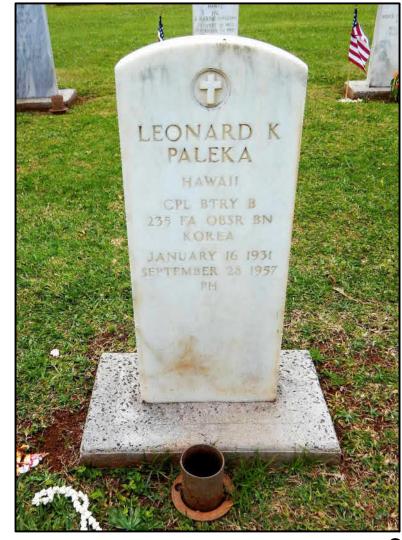
SLOPED TYPE 3 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: STANDARD / TYP (MVC-APPROVED) BRONZE MARKER ON SLOPED CUSTOM BASE.



SLOPED TYPE 2 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: MARBLE / STONE MARKER W SLOPED SURFACE ON CONC / STONE BASE



SLOPED TYPE 4 ('UNUSUAL') GRAVE MARKER NUMBER SYMBOL: BASE. LARGER / THICKER THAN TYPICAL MARKER.



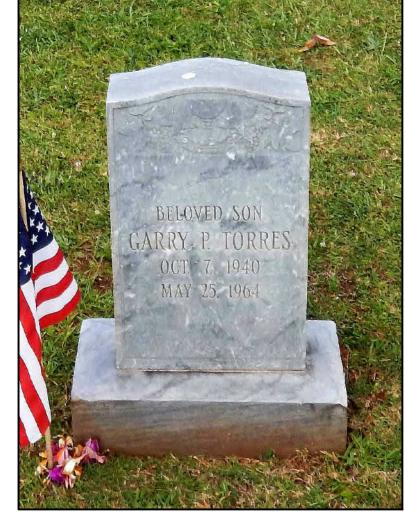
UPRIGHT TYPE 1 ('STANDARD') GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: STANDARD / TYP (MVC-APPROVED)
MARBLE HEADSTONE W/ CONCRETE COLLAR.



UPRIGHT TYPE 2 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: MARBLE HEADSTONE; NARROWER AND / OR SHORTER THAN TYP W/ CONC COLLAR.



UPRIGHT TYPE 3 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: MARBLE HEADSTONE; SHORTER THAN TYPICAL W/ CONC COLLAR.



UPRIGHT TYPE 4 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: SHORT MARBLE / STONE



UPRIGHT TYPE 5 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: MARBLE CROSS HEADSTONE; WITH MARBLE / STONE PEDESTAL.



UPRIGHT TYPE 6 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: MARBLE CROSS HEADSTONE; SHORTER, WITH CONCRETE / STONE BASE.



UPRIGHT TYPE 7 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: SHORT MARBLE CROSS HEADSTONE; WITH MARBLE / STONE PEDESTAL



UPRIGHT TYPE 8 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: WIDE, SHORT, MARBLE HEADSTONE ON CONCRETE BASE. GRAVE MARKER TYPES

SCALE: NO SCALE

Revisions:



UPRIGHT TYPE 9 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: WIDE, SHORT, MARBLE HEADSTONE ON CONC / STONE BASE OR PEDESTAL.



UPRIGHT TYPE 10 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: WIDE, SHORT, MARBLE HEADSTONE ON MARBLE / STONE BASE OR PEDESTAL.



UPRIGHT TYPE 11 ('UNUSUAL') GRAVE MARKER NUMBER SYMBOL: ### DESCRIPTION: SMALL, SHORT MARBLE / STONE HEADSTONE; W/ MARBLE / STONE PEDESTAL.



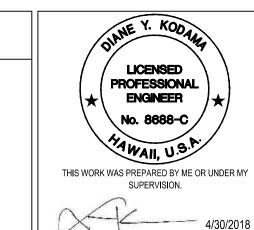
UPRIGHT TYPE 12 ('UNUSUAL')
GRAVE MARKER NUMBER SYMBOL: ### **DESCRIPTION: WOODEN CROSS**

NOTES:

- GRAVE MARKER TYPES SHOWN ON THIS SHEET ARE TYPICAL BUT NOT COMPREHENSIVE OF ALL TYPES OF GRAVE MARKERS AT MVC; THERE ARE OTHER TYPES OF GRAVE MARKERS AT MVC THAT ARE NOT SHOWN ON THIS SHEET. ALL GRAVE MARKERS AT MVC SHALL BE WORKED ON IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
- 'DESIGNATED NUMBER SYMBOL' AS SHOWN ON (PARTIAL) SITE PLANS AND REFERRED TO AS "GRAVE MARKER NUMBER SYMBOL". SEE DWG. NOS. CS402, CS403, AND CS404.
- CONTRACTOR SHALL VERIFY ANY UNCERTAINTIES REGARDING GRAVE MARKERS AND VASES WITH THE HIENG-DR.
- 4. FLAT MARKERS ARE APPROXIMATELY 24"x12"x1" AND WEIGH APPROXIMATELY 30 POUNDS.
- UPRIGHT MARKERS ARE APPROXIMATELY 42"x13"x4" AND WEIGH APPROXIMATELY 230 POUNDS.
- MAJORITY OF ALL GRAVE MARKERS INCLUDE AN AFFIXED 24"x12"x4" CONCRETE BLOCK AS A BASE, WHICH IS CONSIDERED PART OF THE GRAVE MARKER.

ARCHITECT / ENGINEERS:





GRAVE MARKER TYPES

GRAVESITE RESTORATION, MAUI VETERANS CEMETERY STATE OF HAWAII, DEPARTMENT OF DEFENSE,

Checked

Building Number Drawing Number

Project Number

||CA-1208-D

MAUI VETERANS CEMETERY, MAKAWAO, ISLAND OF MAUI, H CS503

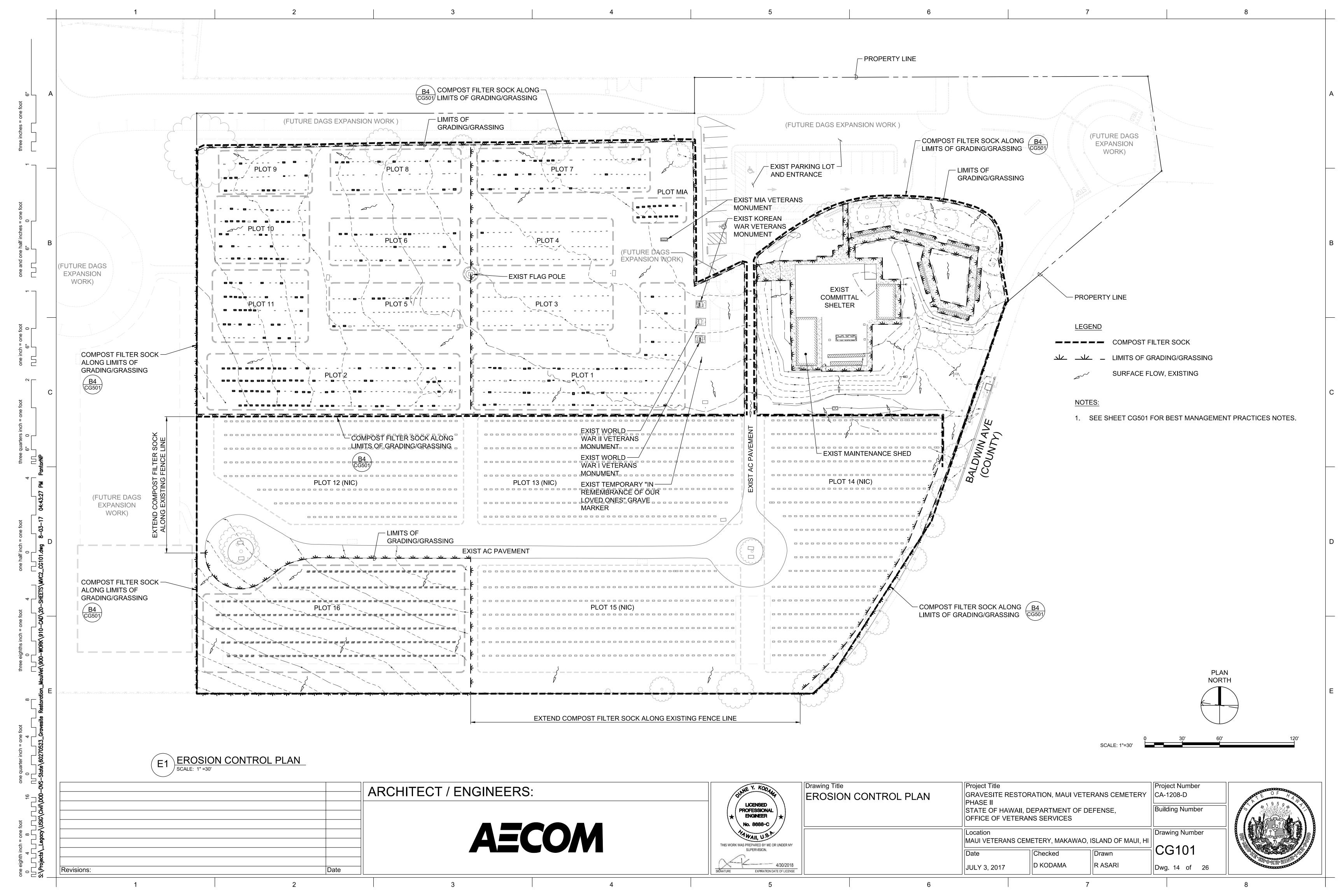


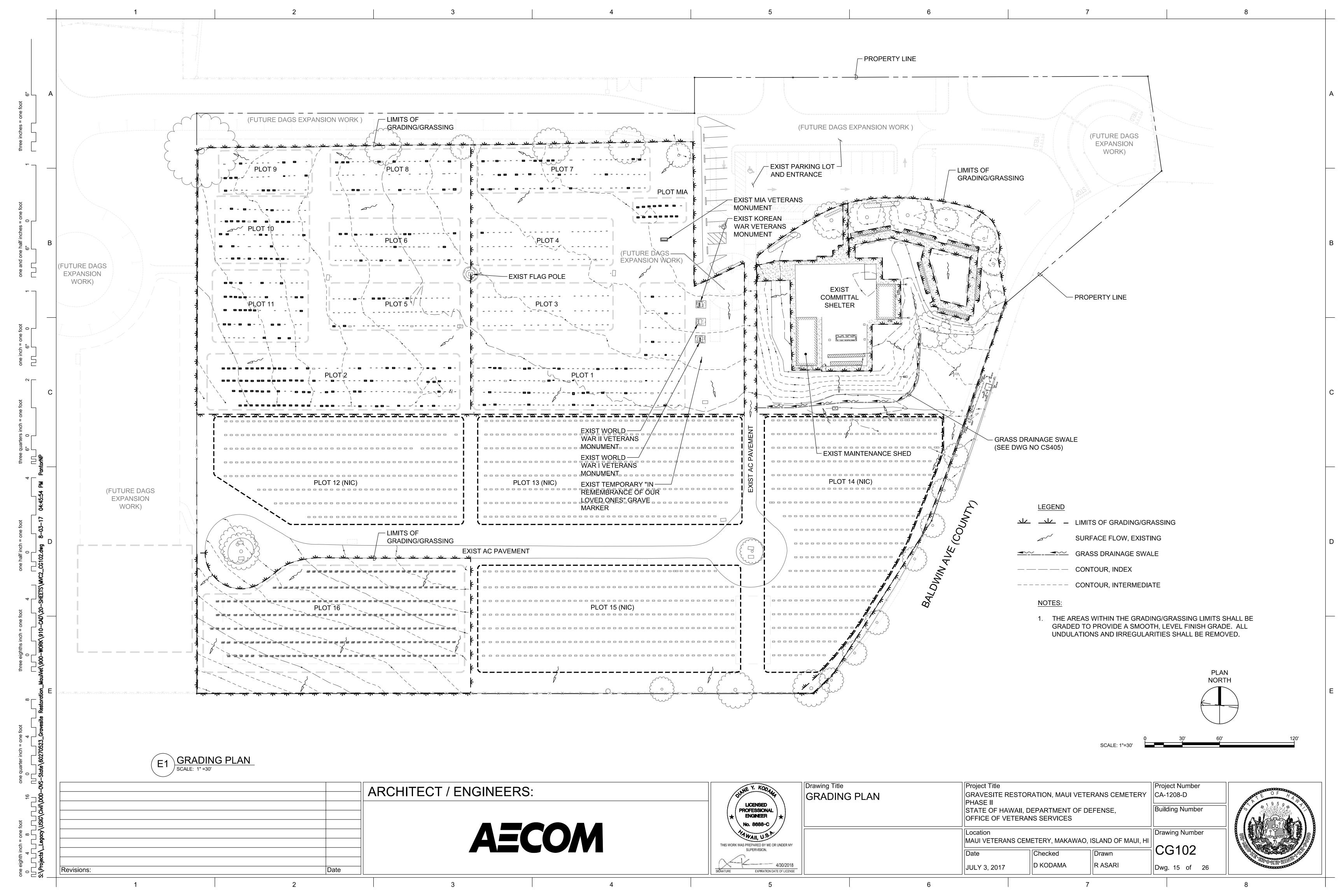
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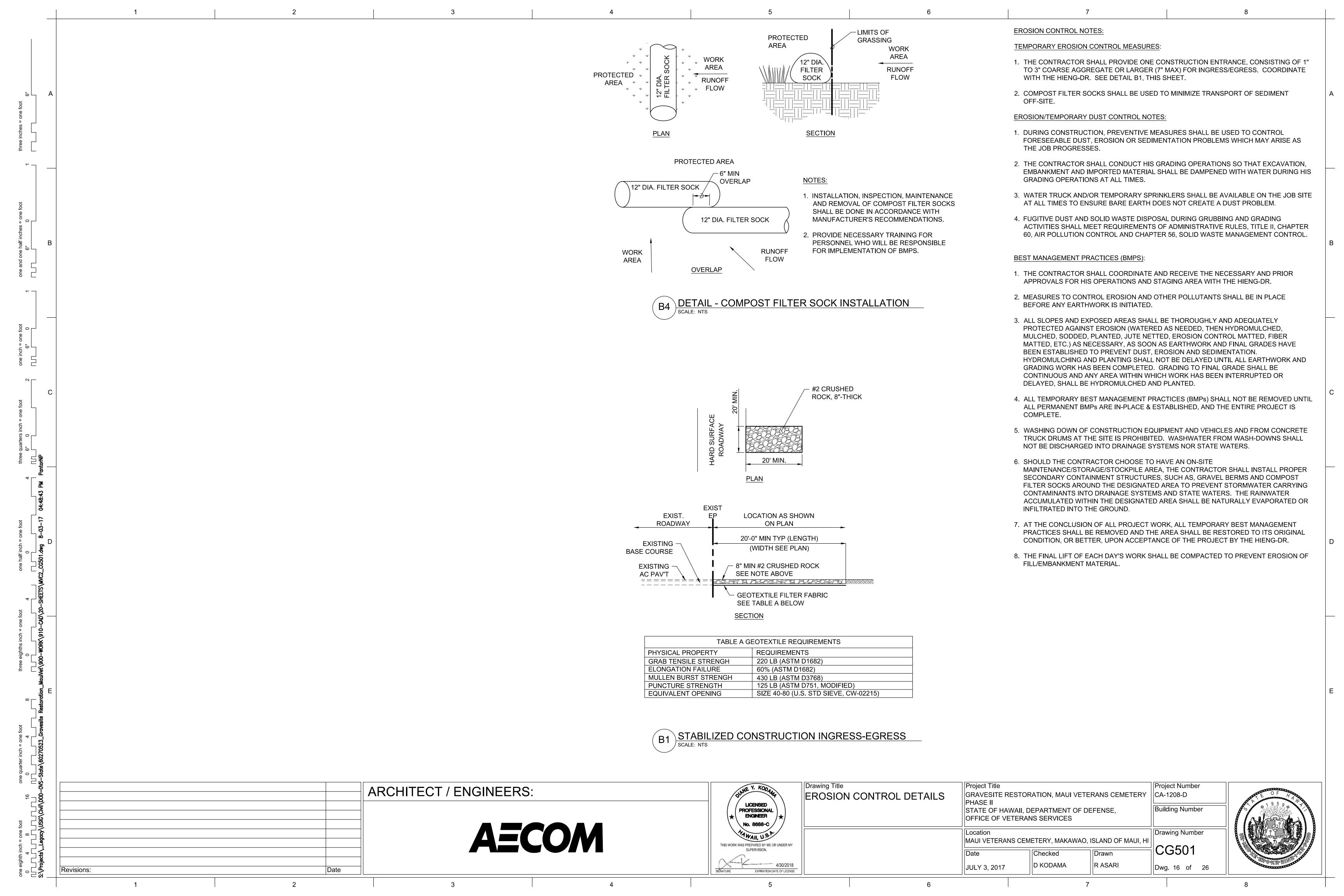
OFFICE OF VETERANS SERVICES

Drawn ||N PANTORILLA

Dwg. 13 of 26







- 2. ALL TREE WORK MUST ADHERE TO AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) - a300 TREE CARE STANDARDS AND ANSI - z133 SAFETY STANDARDS FOR TREE WORK.
- 3. THE CONTRACTOR WILL EMPLOY THE SERVICES OF A QUALIFIED ARBORIST FOR ALL TREE TRIMMING WORK PERFORMED FOR THE DURATION OF THE PROJECT. THE ARBORIST WILL HAVE A MINIMUM OF THREE (3) YEARS EXPERIENCE WITH TREE PROTECTION PROJECTS (OR RELATED WORK) AND BE CERTIFIED IN GOOD STANDING AS AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST FOR A MINIMUM OF FIVE (5) YEARS. THE ARBORIST'S CERTIFICATION SHALL BE VALID AND CURRENT DURING CONSTRUCTION. CONTRACTOR WILL SUBMIT A COPY OF OF THE ISA ARBORIST CERTIFICATION OF GOOD STANDING OF FIVE (5) YEARS TO THE CONTRACTING OFFICER (OR HIS DESIGNATED REPRESENTATIVE) A MINIMUM OF SEVEN (7) DAYS PRIOR TO PERFORMING TREE TRIMMING WORK.

4. TREE PROTECTION ZONE:

- 4.1. CONTRACTOR WILL INSTALL TREE PROTECTION ZONE FENCING AROUND ALL TREES DESIGNATED TO REMAIN WITHIN THE PROJECT LIMITS.
- 4.2. THE ARBORIST WILL DETERMINE THE PLACEMENT OF THE TREE PROTECTION ZONE (TPZ), MARK APPROPRIATE DISTANCES TO PLACE FENCING ON A TREE PROTECTION PLAN (TPP) MAP, MARK ZONES FOR TPZ DIRECTLY ON SITE, AND ENSURE PROPER INSTALLATION OF TPZ FENCING.
- THE ARBORIST WILL OBSERVE TREE PRUNING, CROWN THINNING, CROWN LIFTING, AND ROOT PRUNING. THE CONTRACTOR WILL WORK CLOSELY WITH THE ARBORIST IF WORK MUST BE DONE WITHIN OR IN CLOSE PROXIMITY TO THE TPZ.
- GRASS REMOVAL AND LEVELING OF EXISTING GRADE WITHIN THE TPZ SHALL BE DONE BY HAND. NO MECHANICAL METHODS WILL BE ALLOWED.
- NO GRADING WORK WILL BE ALLOWED WITHIN THE TPZ WITHOUT CONSENT BY THE ARBORIST AND APPROVED CONTRACTING OFFICER (OR HIS DESIGNATED REPRESENTATIVE).
- 5. THE CONTRACTOR SHALL PRESENT AND REVIEW PROCEDURES FOR PERFORMING TREE-RELATED WORK AND ACTIVITIES IN THE AREAS AROUND TREES AND WITHIN THE TREE PROTECTION ZONE (TPZ), INCLUDING ACCESS ROUTES, STORAGE AREAS, AND MEASURES REQUIRED TO PROTECT TREES DURING THE CONSTRUCTION PERIOD TO THE CONTRACTING OFFICER (OR HIS DESIGNATED REPRESENTATIVE) PRIOR TO THE START OF CONSTRUCTION OPERATIONS.
- CONTRACTOR WILL TAKE PROPER MEASURES TO PROTECT THE CROWN AND ROOT SYSTEMS OF THE TREES FROM UNNECESSARY DAMAGE DURING GRADING AND CONSTRUCTION OPERATIONS. WHEN POTENTIALLY DAMAGING CONSTRUCTION ACTIVITIES ARISE (E.G. REMOVAL OF MAJOR SUPPORT ROOTS, EXCESSIVE ROOT REMOVAL ON ONE OR MORE SIDES OF THE TREE, MAJOR CROWN BRANCH REMOVAL) THE ARBORIST WILL CONSULT WITH THE CONTRACTING OFFICER (OR HIS DESIGNATED REPRESENTATIVE) FOR APPROVAL PRIOR PROCEEDING WITH ANY PRUNING ACTIVITIES.
- WORK SCHEDULE: NO ONSITE WORK IN PROXIMITY TO PROTECTED TREES. INCLUDING BUT NOT LIMITED TO DEMOLITION, GRADING, AND TRENCHING, SHALL NOT BE PERFORMED UNTIL APPROPRIATE TREE PRUNING WORK AND INSTALLATION OF THE TREE PROTECTION ZONE (TPZ) FENCE HAVE BEEN SATISFACTORILY COMPLETED UNDER THE SUPERVISION OF THE ARBORIST AND APPROVED BY THE CONTRACTING OFFICER (OR HIS DESIGNATED REPRESENTATIVE). THE CONTRACTOR WILL NOTIFY THE CONTRACTING OFFICER (OR HIS DESIGNATED REPRESENTATIVE) IN WRITING ONCE ALL TREE PROTECTION MEASURES HAVE BEEN FULLY AND PROPERLY IMPLEMENTED PRIOR TO STARTING CONSTRUCTION OPERATIONS.
- SIGNAGE: PROJECT SITE ENTRY AREAS ARE TO BE PROMINENTLY MARKED WITH SIGNAGE INDICATING "TREE PROTECTION PROJECT - CHECK IN AT OFFICE IS REQUIRED PRIOR TO ANY DELIVERIES AND/OR COMMENCEMENT OF WORK".
- TREE PRUNING: PRIOR TO ANY DEMOLITION OR CONSTRUCTION WORK, THE CONTRACTOR WILL PROPERLY PRUNE ALL TREES TO REMAIN WITHIN THE PROJECT SITE. ALL PRUNING WORK WILL BE DONE UNDER THE DIRECT SUPERVISION OF THE ARBORIST. PRUNING WORK WILL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING:
 - CROWN CLEANING: REMOVAL OF DEAD, DISEASED, DAMAGED, AND/OR

INSECT INFESTED WOOD, CROSSING LIMBS, BROKEN AND OLD STUBS. AND WATER SPROUTS.

- CROWN RAISING: REMOVAL OF LOWER LIMBS TO PROVIDE CLEARANCE FOR CONSTRUCTION ACTIVITIES. PROPER CARE AND ATTENTION SHALL BE GIVEN TO THE STRUCTURAL STABILITY AND AESTHETICS OF THE TREE,
- CROWN THINNING: SELECTIVE REMOVAL OF UNWANTED BRANCHES AND LIMBS TO PROVIDE LIGHT AND AIR PENETRATION. AND REDUCE THE WEIGHT ON HEAVILY LADEN BRANCH STRUCTURES.
- 9.4. UTILITY PRUNING: SELECTIVE REMOVAL OF LIMBS AND BRANCHES IN PROXIMITY TO UTILITY LINES.
- 10. ROOT PRUNING: ROOT PRUNING (AS NECESSARY) OUTSIDE THE TPZ SHALL BE DONE UNDER THE DIRECT SUPERVISION OF THE ARBORIST. ROOT PRUNING SHALL BE DONE PRIOR TO GRADING, EXCAVATION, OR TRENCHING OF ROOTS GREATER THAN TWO (2) INCHES IN DIAMETER BY CAREFULLY CUTTING EXPOSED SURFACE ROOTS, AND CAREFULLY EXPOSING SUB-SURFACE ROOTS MANUALLY OR WITH APPROVED POWER EQUIPMENT. ROOTS SHALL BE CUT WITH A SHARF POWER OR HAND SAW, ROCK SAW, NARROW TRENCHER WITH A SHARP BLADE. OR OTHER APPROVED ROOT PRUNING EQUIPMENT. ANY ROOTS DAMAGED DURING GRADING OR OTHER CONSTRUCTION ACTIVITY SHALL BE EXPOSED TO THE NEAREST SOUND TISSUE AND CUT CLEANLY WITH A SHARP SAW OR OTHER APPROVED EQUIPMENT.
- 11. LIMITATION OF CONSTRUCTION ACTIVITIES BENEATH TREE CROWN AND OUTSIDE OF THE TREE PROTECTION ZONE FENCING: ALL CONTRACTORS SHALL LIMIT ACTIVITIES BENEATH THE CROWN OF TREES TO ONLY THOSE ACTIVITIES EXPLICITLY REQUIRED TO COMPLETE THE CONSTRUCTION ACTIVITIES AS SPECIFIED UNDER AND/OR ADJACENT TO TREE CROWNS. ALL EXCAVATION WORK DONE BENEATH TREE CROWNS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF THE ARBORIST. MATERIAL AND TOPSOIL STOCKPILING, VEHICLE PARKING, TEMPORARY ROADWAYS, CONSTRUCTION MATERIAL MIXING OR DUMPING, PORTABLE LATRINES, AND FIELD OFFICES WILL NOT BE TEMPORARILY OR PERMANENTLY LOCATED BENEATH TREE CROWNS EXCEPT IN AREAS WITH PRE-EXISTING PAVING AND/OR AREAS SPECIFICALLY APPROVED BY THE ARBORIST.
- 12. TREE MAINTENANCE: CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING EXISTING TREES WITHIN TPZ FENCING THROUGHOUT CONSTRUCTION. CONTRACTOR'S RESPONSIBILITIES WILL INCLUDE BUT IS NOT LIMITED TO WATERING, PRUNING, AND FERTILIZING OF THE TREES. THE CONTRACTOR WILL WEED WITHIN THE TPZ FENCING ON A REGULAR BASIS AND REPLENISH WOOD MULCH AS NECESSARY TO MAINTAIN A FOUR (4) INCH DEPTH.
- IF TREES OTHER THAN THOSE SPECIFICALLY DESIGNATED FOR REMOVAL ARE DAMAGED BEYOND SURVIVAL CONDITIONS AS DETERMINED BY THE ARBORIS AND/OR CONTRACTING OFFICER (OR HIS DESIGNATED REPRESENTATIVE), THE CONTRACTOR WILL REMOVE SUCH TREE(S) AND REPLACE THE TREE(S) WITH THE SAME SPECIES AND SIZE. CONTRACTOR WILL MAINTAIN THE REPLACEMENT TREE(S) FOR THE DURATION OF CONSTRUCTION OR 90 DAYS, WHICHEVER IS GREATER, AT NO ADDITIONAL COST. CONTRACTOR SHALL APPLY THE SAME WARRANTY AS NEW TREES FOR EXISTING TREES.
- 14. CONTRACTOR SHALL REMOVE ALL TPZ FENCING PRIOR TO GRASSING OPERATIONS. CONTRACTOR WILL CONTINUE TO ADHERE TO TPZ PROCEDURE BENEATH TREE CROWNS SUCH AS, BUT NOT LIMITED TO, NO STORAGE OF EQUIPMENT OR MATERIALS, VEHICLE PARKING, CONSTRUCTION MATERIAL MIXING OR DUMPING, PORTABLE LATRINES, FIELD OFFICES, AND EXCESSIVE FOOT TRAFFIC.

LIST OF ABBREVIATIONS:

AMERICAN NATIONAL STANDARDS INSTITUTE

INTERNATIONAL SOCIETY OF ARBORICULTURE

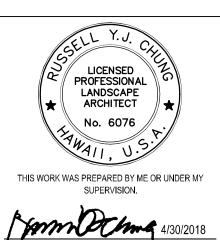
TREE PROTECTION ZONE

TREE PROTECTION PLAN

ARCHITECT / ENGINEERS:

Revisions:





Drawing Title TREE DISPOSITION NOTES

Approved: LTC. NEAL S. MITSUYOSHI CHIEF ENGINEERING OFFICER, CONTRACTING OFFICER

DEPARTMENT OF DEFENSE, ENGINEERING OFFICE JULY 28, 2017

Project Title

MAUI VETERANS CEMETERY. MAKAWAO. ISLAND OF MAUI. HI Checked Drawn

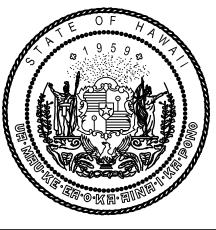
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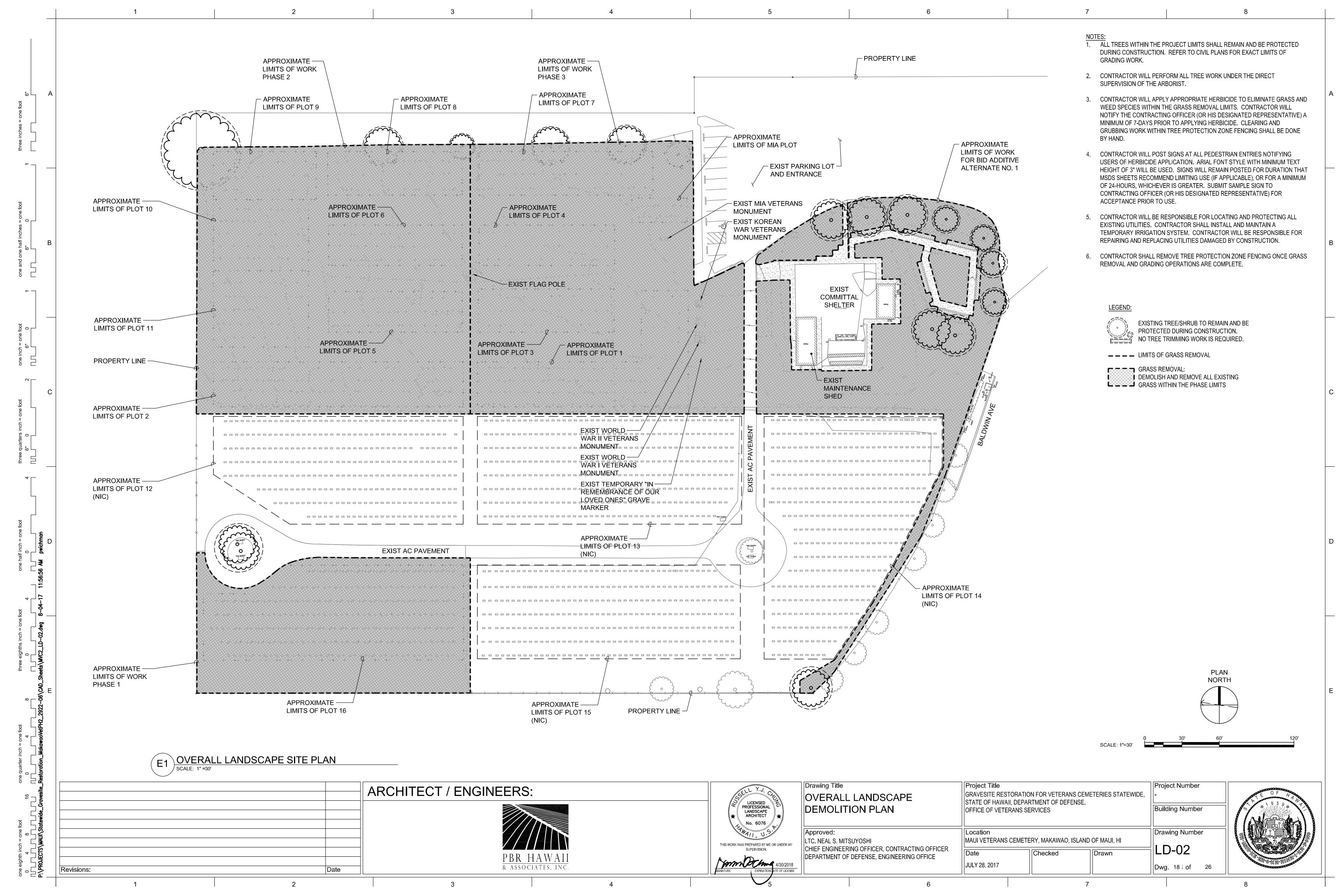
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GRAVESITE RESTORATION FOR VETERANS CEMETERIES STATEWIDE.

Building Number Drawing Number LD-01 Dwg. 17 of 26

Project Number





TREE PROTECTION ZONE:

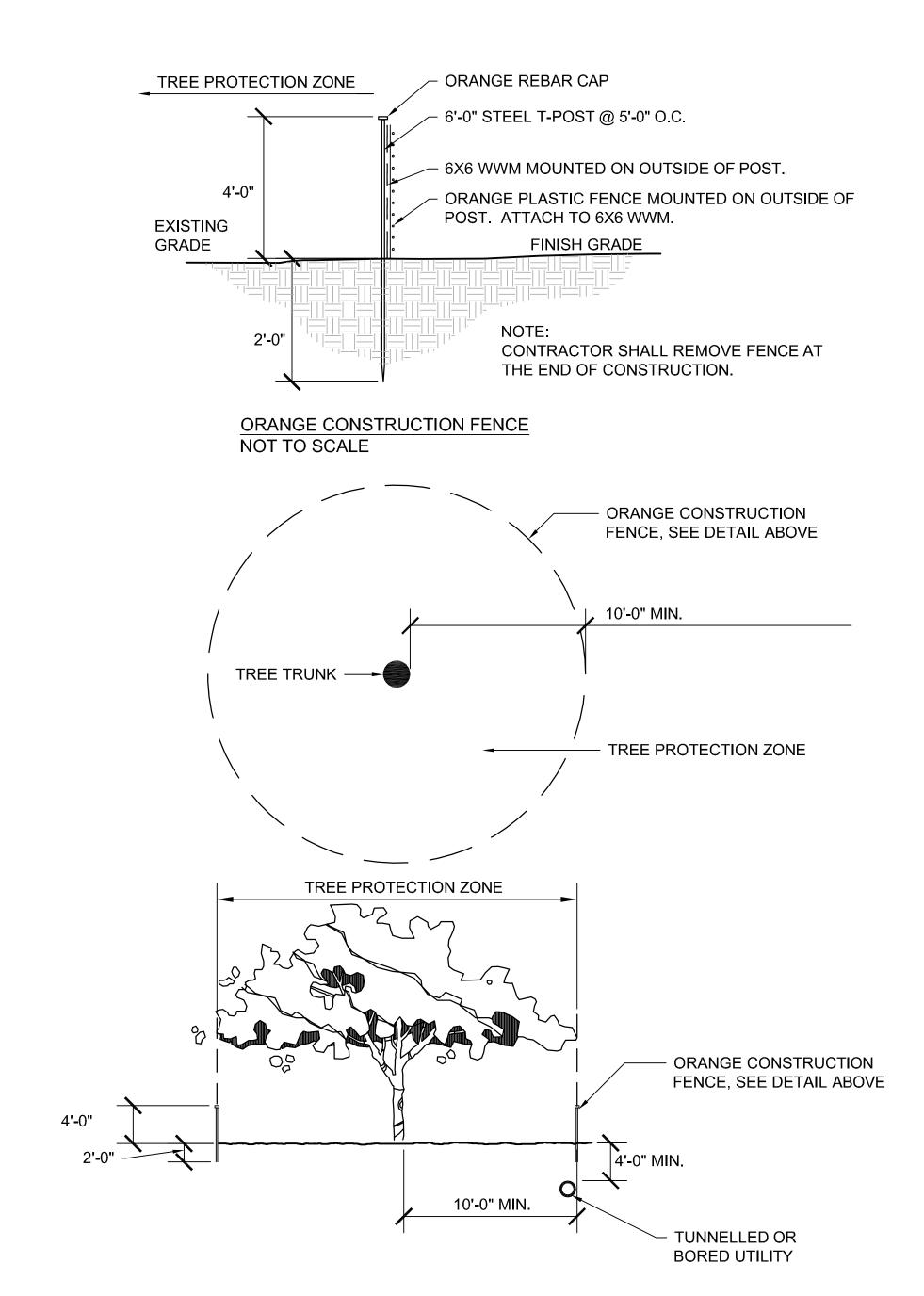
- TREE PROTECTION ZONE FENCING SHALL BE A MINIMUM TEN (10) FEET FROM THE TRUNK.
- NO TRENCHING FOR UTILITIES WILL BE ALLOWED WITHIN THE TREE PROTECTION ZONE. UNDERGROUND UTILITIES WHICH CANNOT BE ROUTED AROUND THE TREE PROTECTION ZONE MAY BE TUNNELED OR BORED THROUGH THE ZONE. THE TUNNEL OR BORE SHALL BE AT LEAST FOUR (4) FEET BELOW EXISTING GRADE. THE TUNNEL OR BORE SHALL MAINTAIN A MINIMUM TEN (10) FOOT HORIZONTAL DISTANCE FROM TREES WITHIN THE TREE PROTECTION ZONE.
- FENCES SHALL BE ERECTED AT THE PERIMETER OF THE TREE PROTECTION ZONE (TPZ) FOR ALL TREES IDENTIFIED TO REMAIN ON PLAN. THE TPZ SHALL BE CONSTRUCTED OF A FOUR (4) FOOT HIGH ORANGE PLASTIC MESH (OR APPROVED EQUIVALENT) SUPPORTED ON MINIMUM SIX (6) FOOT LONG STEEL T-POST. ATTACH 6X6 WWM TO INTERIOR OF ORANGE PLASTIC MESH FOR ADDITIONAL SUPPORT. ORANGE PLASTIC FENCING AND 6X6 WWM SHALL BE SECURELY FASTENED TO THE POSTS TO MINIMIZE ANY SAGGING. FENCE SHALL BE INSTALLED PRIOR TO ANY DEMOLITION WORK AND SHALL BE REMOVED AFTER CONSTRUCTION IS COMPLETE. ATTACH FOUR (4) SIGNS, EQUALLY SPACED, ON THE TPZ FENCING. THE SIGNS SHALL READ "TREE PROTECTION ZONE [TPZ] - NO GRADE CHANGE, STORAGE OR EQUIPMENT PERMITTED WITHIN
- FOR THE DURATION OF CONSTRUCTION WITHIN THE TPZ FENCING OF THE TREES TO REMAIN THERE MUST BE:
 - NO CHANGES, ALTERATION OR DISTURBANCE TO THE GRADE BY ADDING FILL, EXCAVATING OR SCRAPING EXCEPT AS NOTED ON PLANS;
 - NO STORAGE ON CONSTRUCTION MATERIALS OR EQUIPMENT;
 - NO STOCKPILING OF ANY CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS;
 - NO DISPOSAL OF ANY LIQUIDS (e.g. CONCRETE SLEUTH, GAS, OIL, PAINT);
 - NO VEHICULAR TRAFFIC, EQUIPMENT OR EXCESSIVE PEDESTRIAN TRAFFIC;
 - NO ATTACHMENT OF ANY WIRES, ROPES, LIGHTS OR ANY OTHER SUCH ATTACHMENT OTHER THAN THOSE OF A PROTECTIVE NATURE TO ANY TREE TO BE PRESERVED;
 - NO CLEANING OF EQUIPMENT OR MATERIAL UNDER THE CANOPY OF ANY TREE OR GROUP OF TREES TO BE PRESERVED

Date

- TREE ROOT INJURY: IF DAMAGE TO TREE(S) AND/OR TREE ROOTS OCCUR DURING DEMOLITION OR CONSTRUCTION ACTIVITY, THE RESPONSIBLE PARTY SHALL IMMEDIATELY REPORT THE INCIDENT TO THE CONTRACTING OFFICER AND ARBORIST. THE ARBORIST SHALL EVALUATE THE INJURY AND APPLY APPROPRIATE TREATMENT AFTER CONSULTING WITH THE CONTRACTING OFFICER. THE CONTRACTOR SHALL SUBMIT A WRITTEN REPORT OF THE TREE INJURY AND TREATMENT TO THE CONTRACTING OFFICER.
- INSTALL A TWO (2) INCH LAYER OF ORGANIC MULCH WITHIN THE TREE PROTECTION ZONE FENCING. MULCH SHALL NOT EXCEED TWO (2) INCH PARTICLE SIZE.

TREE PROTECTION DETAIL

Revisions:



LIST OF ABBREVIATIONS:

TREE PROTECTION ZONE

ON CENTER

MINIMUM

Drawing Title TREE PROTECTION DETAILS

Approved: LTC. NEAL S. MITSUYOSHI

CHIEF ENGINEERING OFFICER, CONTRACTING OFFICER DEPARTMENT OF DEFENSE, ENGINEERING OFFICE

Project Title

MAUI VETERANS CEMETERY, MAKAWAO, ISLAND OF MAUI, HI Checked

GRAVESITE RESTORATION FOR VETERANS CEMETERIES STATEWIDE,

& ASSOCIATES, INC

PBR HAWAII

ARCHITECT / ENGINEERS:

LICENSED PROFESSIONAL LANDSCAPE ARCHITECT

THIS WORK WAS PREPARED BY ME OR UNDER MY

Marrio Chang 4/30/2018

JULY 28, 2017

STATE OF HAWAII, DEPARTMENT OF DEFENSE,

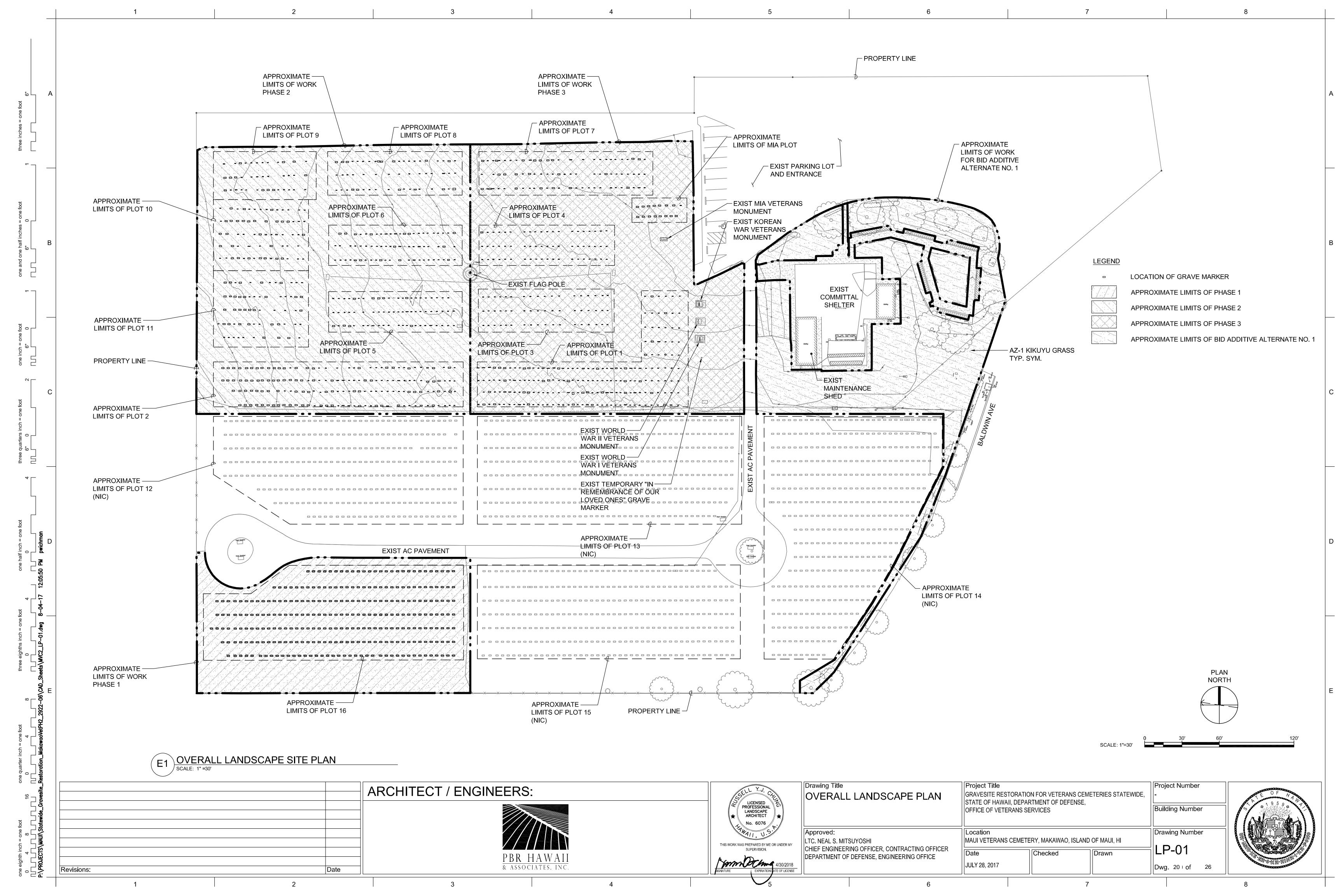
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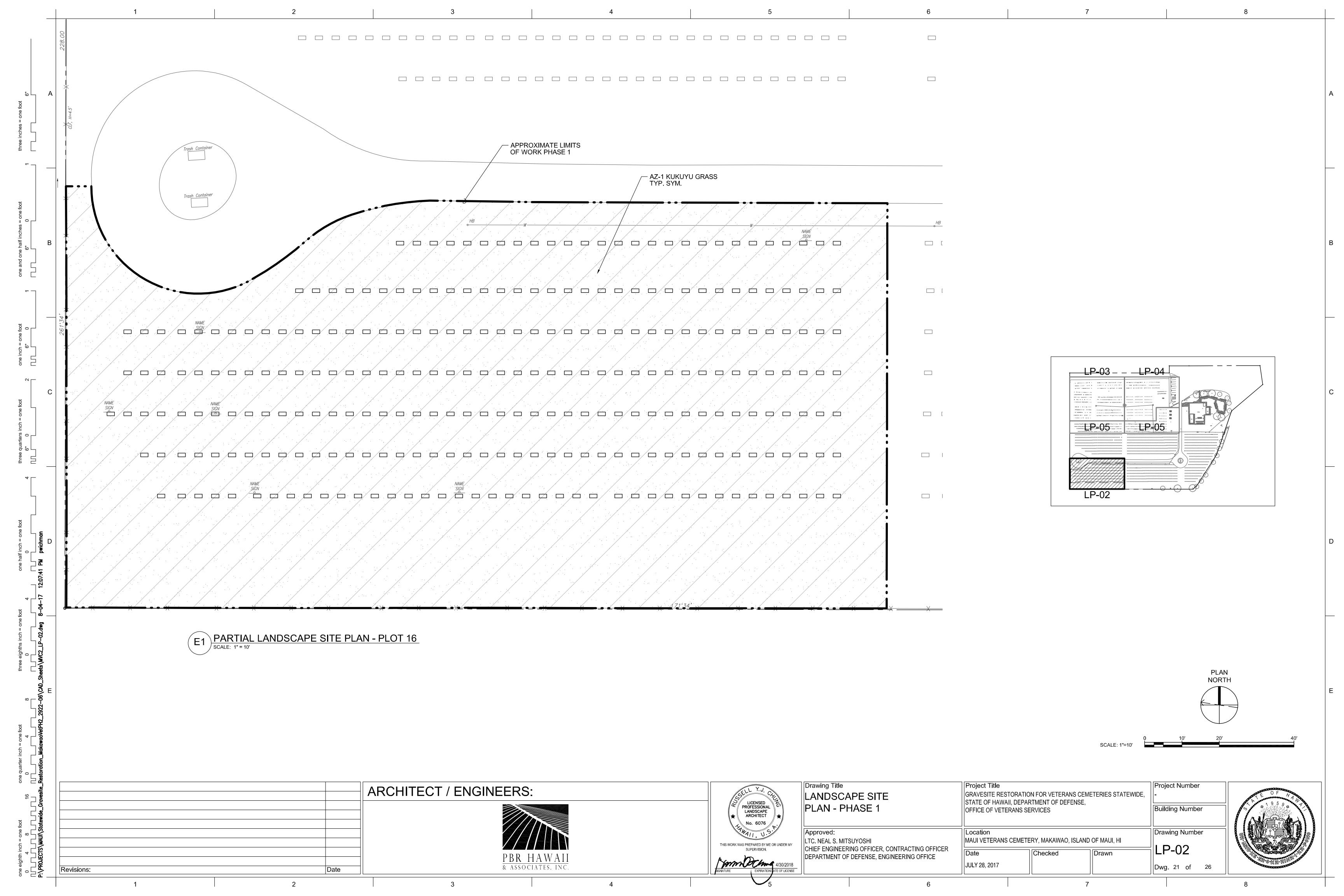
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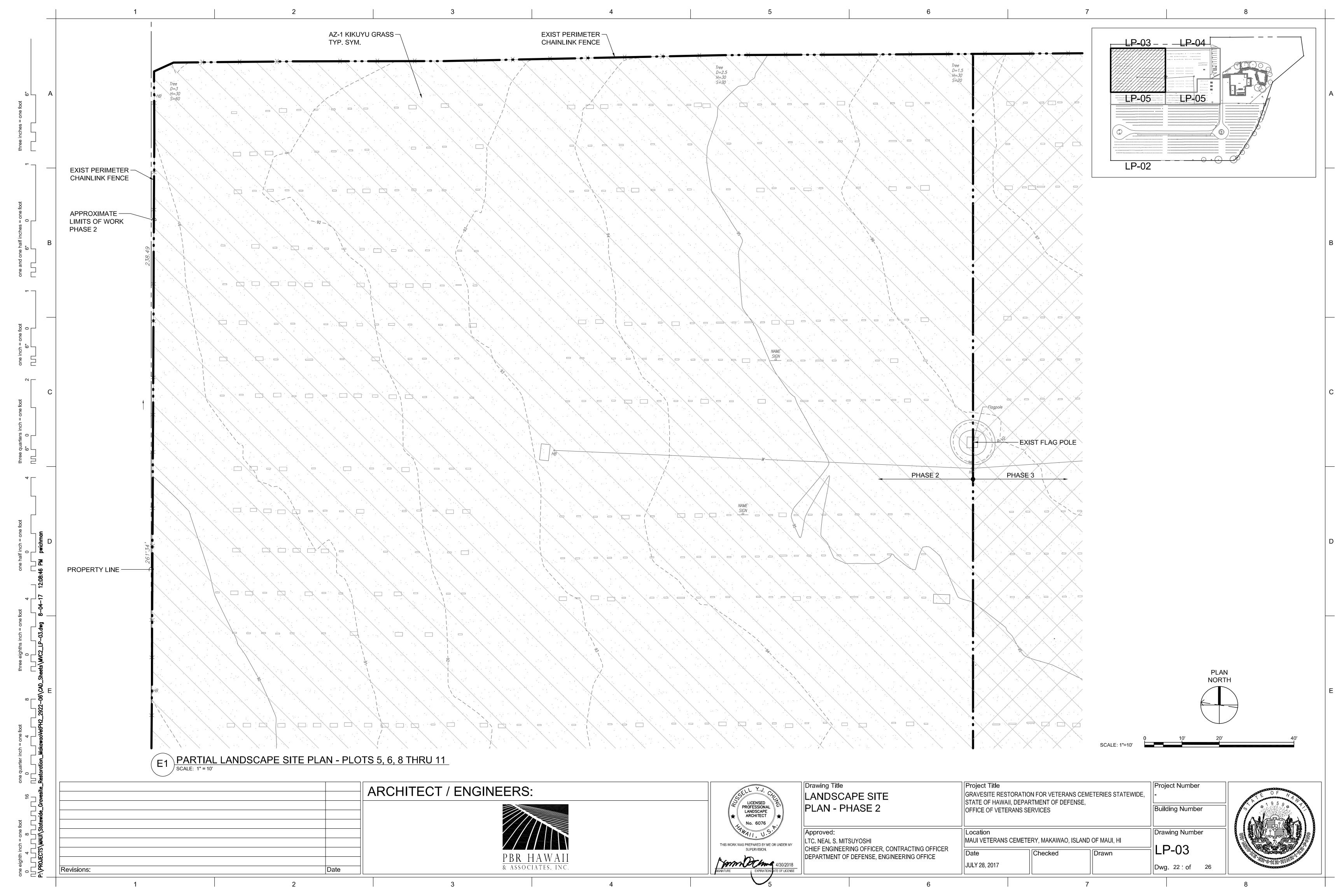
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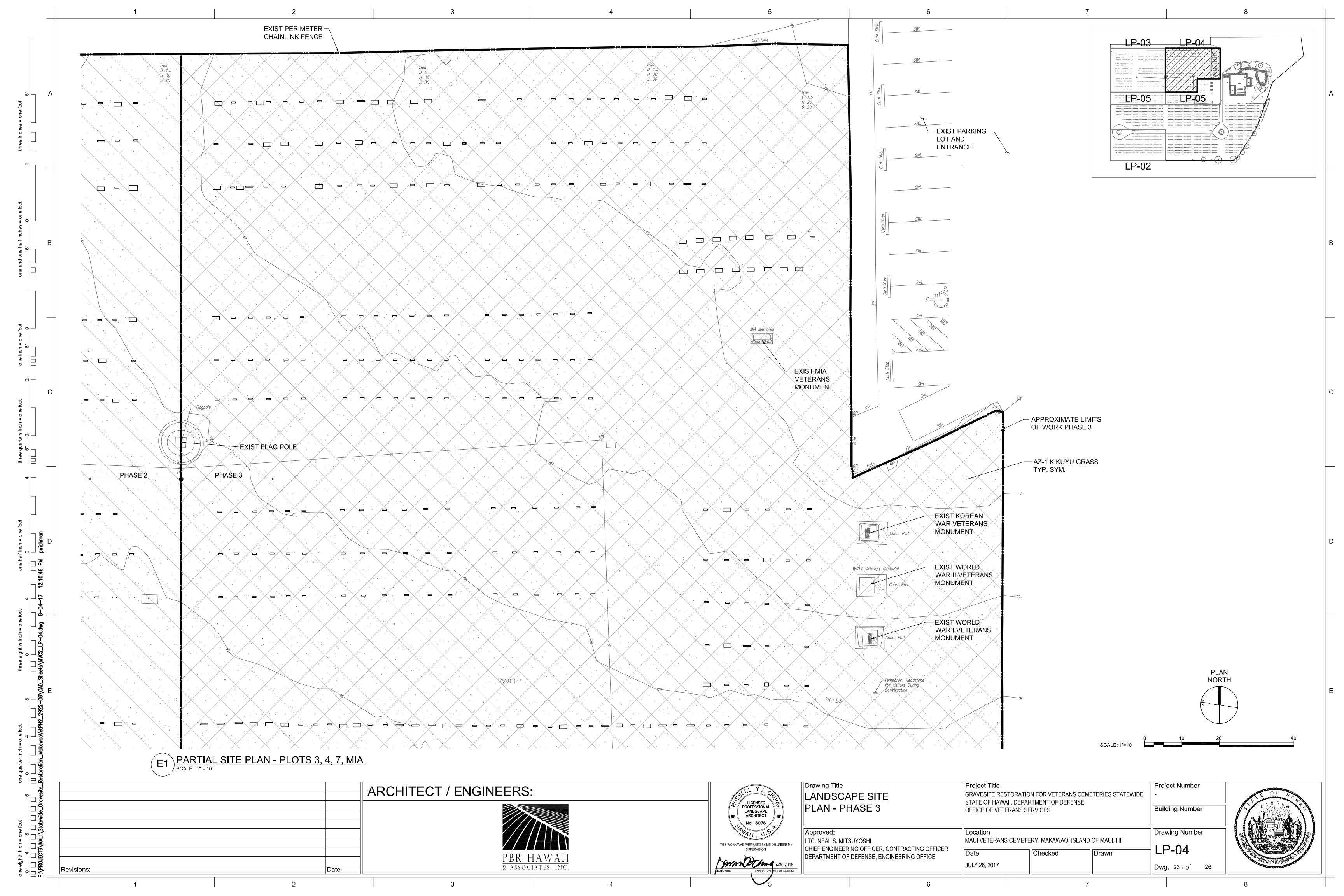
Building Number

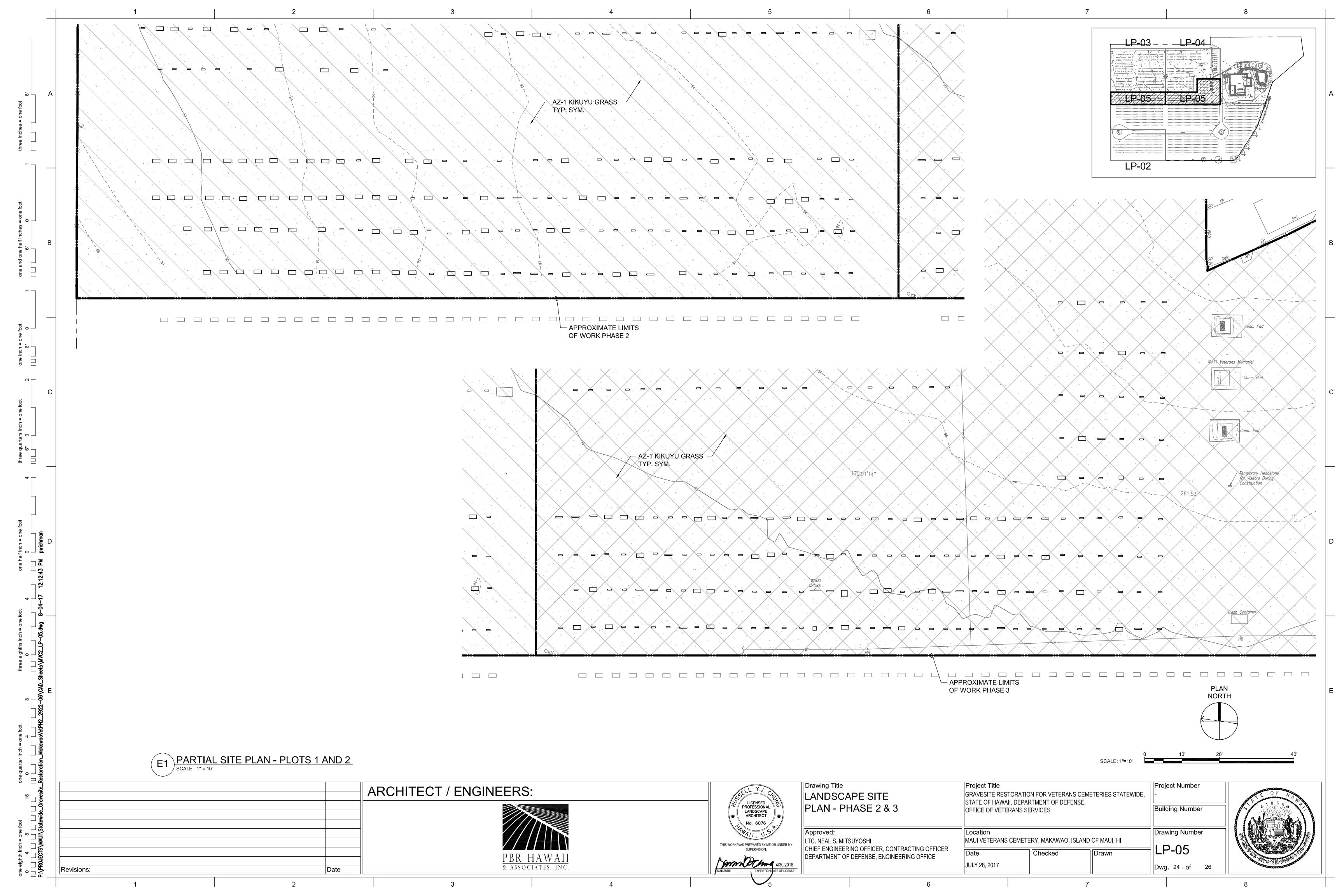
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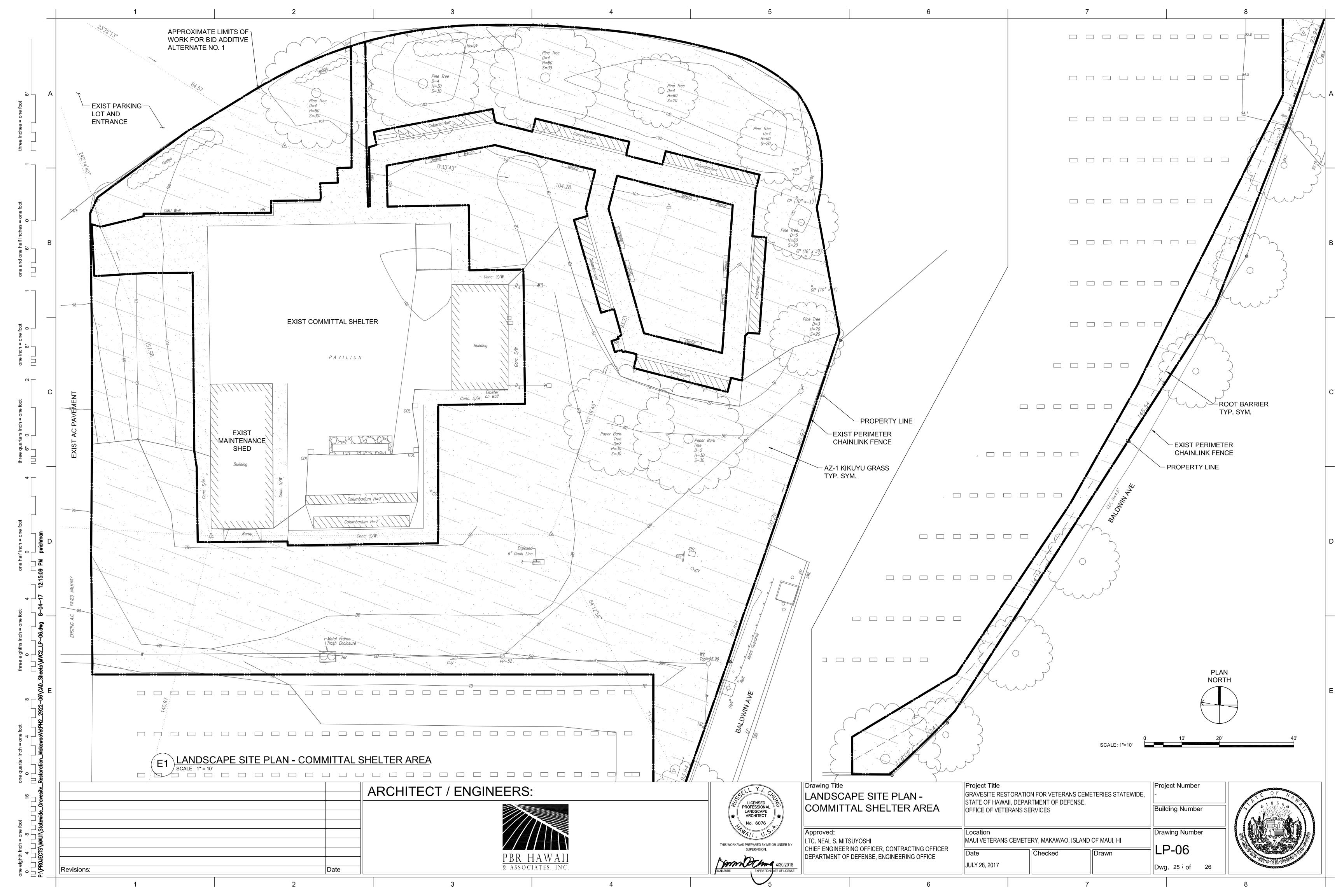


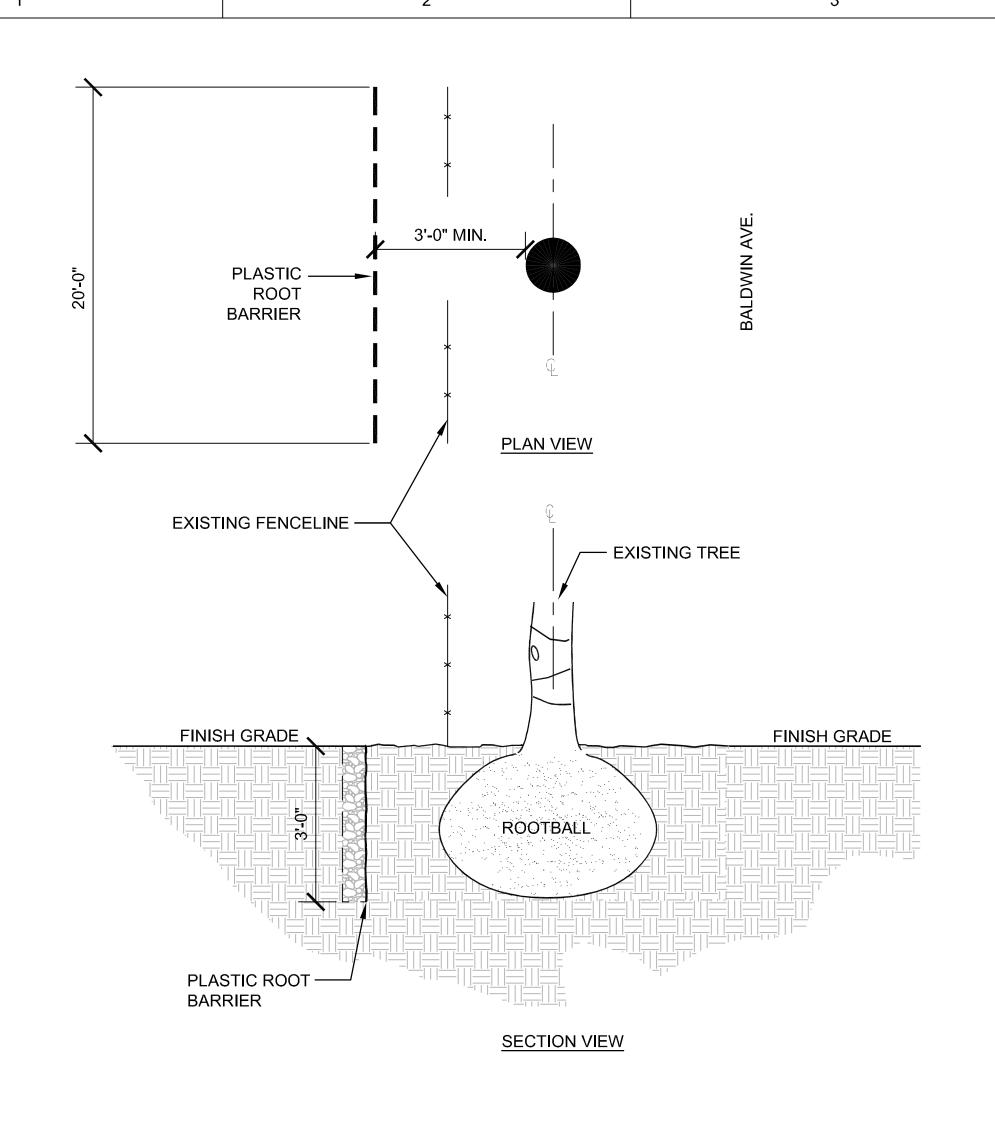












INSTALL SO TOP OF ROOT BARRIER IS VISIBLE AT GRADE. IN ALL CASES, INSTALL ROOT BARRIER ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS AND INSTRUCTIONS.

ROOT BARRIER DETAIL

NOT TO SCALE

Revisions:

PLANT SCHEDULE PHASE 1

BOTANICAL NAME COMMON NAME <u>CONT</u> SOD/SEED 22,740 SF PENNISETUM CLANDESTINUM 'AZ-1' AZ-1 KIKUYU GRASS SEED

MISCELLANEOUS ITEMS

22,740 SF ORGANIC SOIL AMENDMENT (1" LAYER OVER ALL PLANTING AREAS) IMPORTED SCREENED TOPSOIL (4" LAYER OVER ALL PLANTING AREAS)

PLANT SCHEDULE PHASE 2

SOD/SEED BOTANICAL NAME COMMON NAME <u>CONT</u> 47,320 SF PENNISETUM CLANDESTINUM 'AZ-1' AZ-1 KIKUYU GRASS SEED

MISCELLANEOUS ITEMS

47,320 SF ORGANIC SOIL AMENDMENT (1" LAYER OVER ALL PLANTING AREAS) IMPORTED SCREENED TOPSOIL (4" LAYER OVER ALL PLANTING AREAS)

PLANT SCHEDULE PHASE 3

SOD/SEED <u>CONT</u> BOTANICAL NAME COMMON NAME 43,630 SF PENNISETUM CLANDESTINUM 'AZ-1' AZ-1 KIKUYU GRASS SEED

MISCELLANEOUS ITEMS

43,630 SF ORGANIC SOIL AMENDMENT (1" LAYER OVER ALL PLANTING AREAS) 595 CY IMPORTED SCREENED TOPSOIL (4" LAYER OVER ALL PLANTING AREAS)

PLANT SCHEDULE ADD ALT

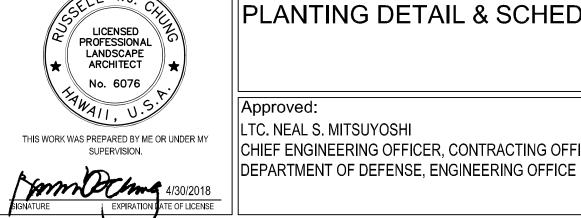
SOD/SEED BOTANICAL NAME COMMON NAME <u>CONT</u> 23,265 SF PENNISETUM CLANDESTINUM 'AZ-1' AZ-1 KIKUYU GRASS SEED

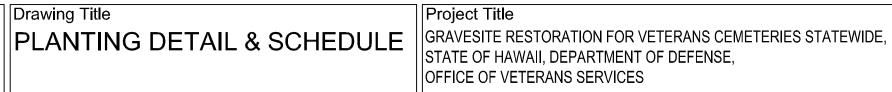
MISCELLANEOUS ITEMS

23,265 SF ORGANIC SOIL AMENDMENT (1" LAYER OVER ALL PLANTING AREAS) IMPORTED SCREENED TOPSOIL (4" LAYER OVER ALL PLANTING AREAS) 315 CY PLASTIC ROOT BARRIER (36" DEPTH, 20 LF PER TREE MINIMUM)

ARCHITECT / ENGINEERS:







LTC. NEAL S. MITSUYOSHI CHIEF ENGINEERING OFFICER, CONTRACTING OFFICER

Project Title

STATE OF HAWAII, DEPARTMENT OF DEFENSE,

OFFICE OF VETERANS S	Building Number		
Location MAUI VETERANS CEMET	Drawing Number		
Date	Checked	Drawn	LP-07
JULY 28, 2017			Dwg. 26 of 26

Project Number

