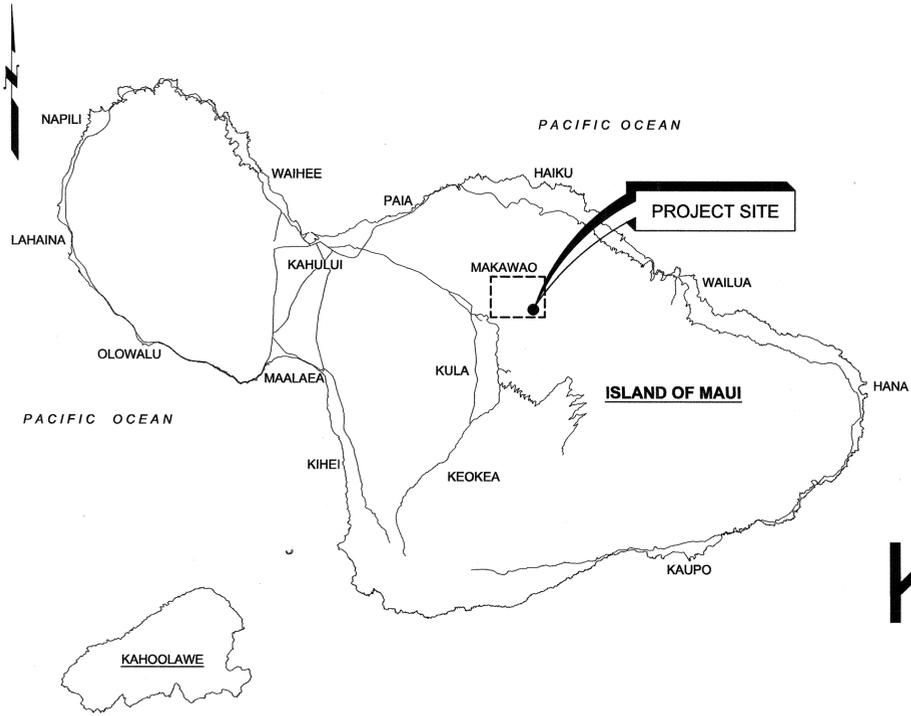


STATE OF HAWAII
 DEPARTMENT OF LAND AND NATURAL RESOURCES
 ENGINEERING DIVISION

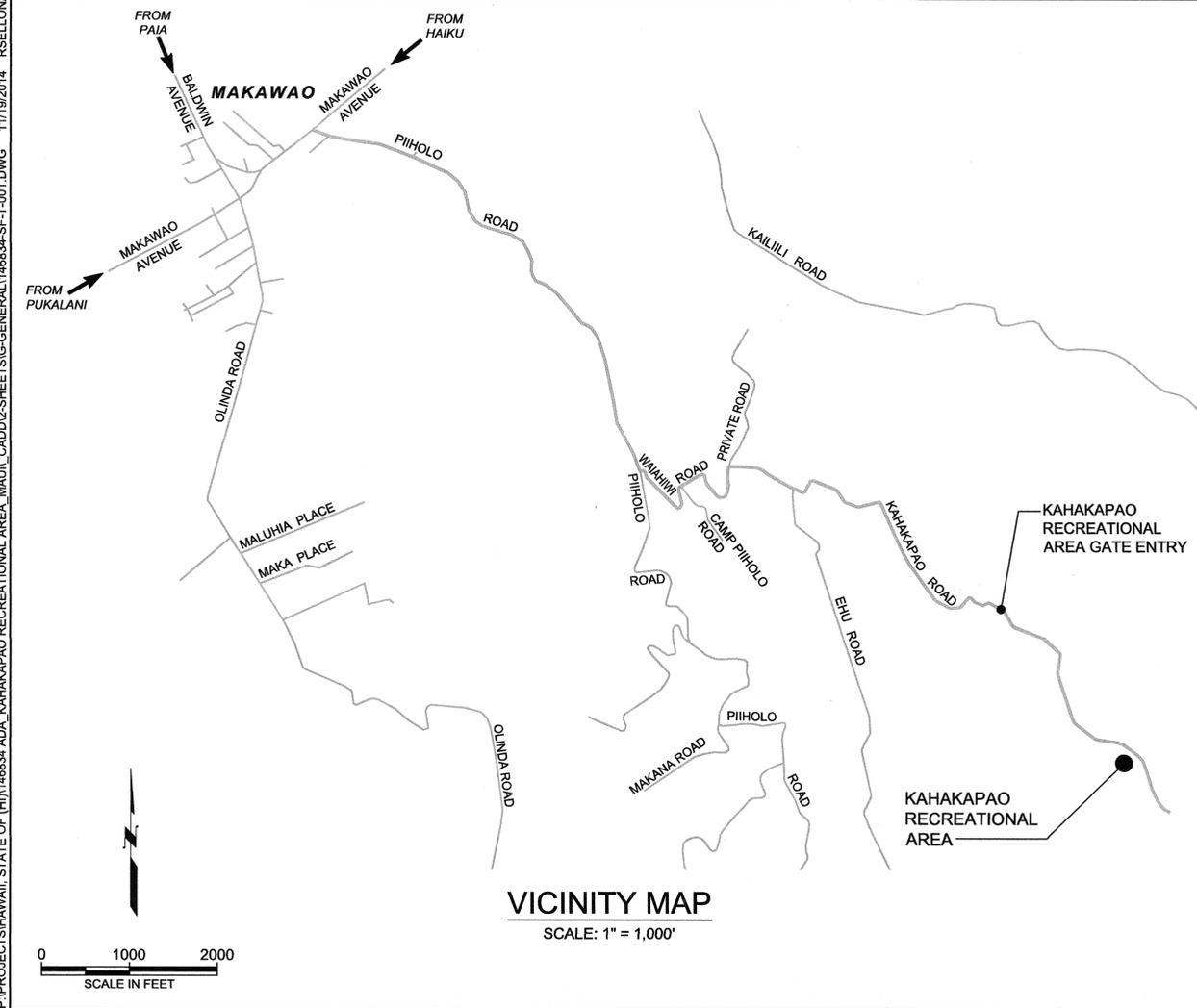
FOR
 DIVISION OF FORESTRY AND WILDLIFE
 JOB NO. J00CM60A

KAHAKAPAO RECREATIONAL AREA ADA IMPROVEMENTS

MAKAWAO, MAUI, HAWAII
 TMK: (2) 2-4-016:002



LOCATION MAP
 NOT TO SCALE



VICINITY MAP
 SCALE: 1" = 1,000'

INDEX OF DRAWINGS

SHEET NO.	DRAWING NO.	DESCRIPTION
1	T-1	LOCATION AND VICINITY MAPS, INDEX OF DRAWINGS AND APPROVALS
2	G-1	ABBREVIATIONS AND LEGEND
3	G-2	GENERAL AND CONSTRUCTIONS NOTES
4	C-1	EXISTING CONDITION AND DEMOLITION PLAN
5	C-2	OVERALL SITE PLAN
6	C-3	ENLARGED SITE PLAN
7	C-4	GRADING AND PAVEMENT PLAN
8	C-5	CONCRETE JOINT PLAN AND PROFILE OF WALL
9	C-6	CONSTRUCTION DETAILS 1
10	C-7	CONSTRUCTION DETAILS 2
11	C-8	CONSTRUCTION DETAILS 3
12	C-9	CONSTRUCTION DETAILS 4
13	C-10	EROSION CONTROL PLAN
14	C-11	EROSION CONTROL NOTES AND DETAILS

APPROVED: _____ DATE: 5/6/16

DAVID G. SMITH
 ADMINISTRATOR
 DIVISION OF FORESTRY AND WILDLIFE
 DEPARTMENT OF LAND AND NATURAL RESOURCES

APPROVED: _____ DATE: 5/6/16

CARTY S. CHANG, P.E.
 CHIEF ENGINEER
 ENGINEERING DIVISION
 DEPARTMENT OF LAND AND NATURAL RESOURCES

DRAWING NO.
 T-1

P:\PROJECTS\HAWAII STATE OF (H)\146834 ADA_KAHAKAPAO RECREATIONAL AREA_MAUJ_CADD\2-SHEETS\G-GENERAL\146834-SF-T-001.DWG 11/19/2014 RSELLONA

JOB NO. J00CM60A, KAHAKAPAO RECREATIONAL AREA ADA IMPROVEMENTS

ABBREVIATIONS

LEGEND

A	ABS ABSOLUTE	H	H HEIGHT	S	S SEWER, SOUTH, OR SLOPE
AC	ASPHALT CONCRETE	HDPE	HIGH DENSITY POLYETHYLENE	SCH	SCHEDULE
ACI	AMERICAN CONCRETE INSTITUTE	HGT	HEIGHT	SDMH	STORM DRAIN MANHOLE
AD	AREA DRAIN	HORIZ	HORIZONTAL	SE	SOUTHEAST
ADA	AMERICANS WITH DISABILITIES ACT	HR	HOUR	SHT	SHEET
ADAAG	AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES	HWY	HIGHWAY	SK	SACK
AFF	ABOVE FINISHED FLOOR	HYD	HYDRANT	SL	SLOPE OR STREET LIGHT
APPROX	APPROXIMATE			SLB	STREET LIGHT BOX
ARCH	ARCHITECTURAL	I		SMH	SEWER MANHOLE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	IBC	INTERNATIONAL BUILDING CODE	SPECS	SPECIFICATIONS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	ID	INSIDE DIAMETER OR INTERNAL DIMENSION	SP. G.	SPECIFIC GRAVITY
		IN	INCH	SQ	SQUARE
		INV	INVERT	SS	STAINLESS STEEL
B		J		ST	STATE OR STREET
B	BOTTOM	J	JUNCTION	STA	STATION
BC	BOTTOM OF CONCRETE			STD	STANDARD OR STORM DRAINS
BFP	BACK FLOW PREVENTER			STL	STEEL
BLDG	BUILDING	K		STRUCT	STRUCTURAL
BLK	BLOCK	KVA	KILOVOLT AMP	SW	SOUTHWEST
BM	BEAM OR BENCH MARK			SY	SQUARE YARD
BMP	BEST MANAGEMENT PRACTICES			T	
BOT	BOTTOM	L		T	TOP, TELEPHONE, OR THICKNESS
BS	BOTTOM OF SLAB	L	LENGTH OR LITER	TC	TOP OF CONCRETE
BW	BOTTOM WALL	LB(S)	POUND OR POUND(S)	TEL	TELEPHONE LINE
		LF	LINEAR FEET	TEMP	TEMPERATURE OR TEMPORARY
C		LG	LENGTH OR LONG	TERM	TERMINATE OR TERMINATION
CB	CATCH BASIN	LOC	LOCATION	THK	THICK OR THICKNESS
CFR	CODE OF FEDERAL REGULATIONS	LT	LEFT	THR'D	THREADED
CI	CAST IRON	M		TMK	TAX MAP KEY
CIP	CAST IRON PIPE	MAG	MAGNETIC	TP	TOP OF PIPE OR TOP OF PAD
CL	CHLORINE, CHAIN LINK, CLASS, CENTERLINE OR CLEARANCE	MAX	MAXIMUM	TOP	TOP OF PAVEMENT
		MECH	MECHANICAL	TS	TOP OF SLAB
CLG	CEILING	MH	MANHOLE	TW	TOP WALL
CLR	CLEAR	MIN	MINIMUM, MINUTE	TYP	TYPICAL
CMU	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS	U	
CO	CLEANOUT	MJ	MECHANICAL JOINT	UG	UNDERGROUND
COMB	COMBINATION	MON	MONUMENT	UP	UTILITY POLE
CONC	CONCRETE	MPH	MILES PER HOUR	V	
CONN	CONNECTION	MSDS	MATERIAL SAFETY DATA SHEETS	V	VALVE
CONT	CONTINUED OR CONTINUOUS	MSL	MEAN SEA LEVEL	VERT	VERTICAL
COTG	CLEAN-OUT TO GRADE	N		VIF	VERIFY IN FIELD
CTR	CENTER	N	NORTH	W	
CY	CUBIC YARD	NE	NORTHEAST	W	WATER
		NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	W	WITH
D		N.C.	NORMALLY CLOSED	WL	WATER LINE
D	DIAMETER, DEPTH, OR DRAIN	N.O.	NORMALLY OPEN	WM	WATER METER
DB	DIRECT BURIED	NO.	NUMBER	WMH	WATER MANHOLE
DCAB	DISABILITY AND COMMUNICATION ACCESS BOARD	NPT	NATIONAL PIPE THREAD	WWR	WELDED WIRE REINFORCEMENT
DET	DETAIL	NW	NORTHWEST	WV	WATER VALVE
DI	DRAIN INLET	O		Y	
DIA	DIAMETER	OC	ON CENTER	YD	YARD
DIP(S)	DUCTILE IRON PIPE OR DUCTILE IRON PIPES	OD	OUTSIDE DIAMETER		
DLNR	DEPARTMENT OF LAND AND NATURAL RESOURCES	OF	OVERFLOW OR OUTSIDE FACE		
DN	DOWN	O/H	OVERHEAD		
DOFAW	DIVISION OF FORESTRY AND WILDLIFE	OPNG	OPENING		
DOT	DEPARTMENT OF TRANSPORTATION	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION		
DWG(S)	DRAWING OR DRAWINGS	OZ	OUNCE		
DWY	DRIVEWAY	P			
E		P	POLE, PAGE OR PIPE		
E	EAST	PAVT	PAVEMENT		
E/ELEC	ELECTRIC(AL)	PE	POLYETHYLENE, PLAIN END		
EA	EACH	PL	PROPERTY LINE		
EG	EXISTING GRADE	PRESS	PRESSURE		
EL	ELEVATION, ELBOW	PSF	POUNDS PER SQUARE FOOT		
ELEV	ELEVATION	PSI	POUNDS PER SQUARE INCH		
EXIST	EXISTING	PSIG	POUNDS PER SQUARE INCH GAUGE		
EW	EACH WAY	PSL	PEDESTRIAN SIGNAL LIGHT		
		PT	POINT		
F		PVC	POLYVINYL CHLORIDE		
FG	FINISHED GRADE	R			
FH	FIRE HYDRANT	R	RADIUS		
FIN	FINISHED	RC	REINFORCED CONCRETE		
FL	FLOWLINE	RCP	REINFORCED CONCRETE PIPE		
FLR	FLOOR	RD	ROUND OR ROAD		
FND	FOUNDATION	REF	REFERENCE OR REFER		
FT	FEET OR FOOT	REQD	REQUIRED		
		RESIL	RESILIENT		
G		REV	REVISION		
G	GAS OR GATE	ROW	RIGHT OF WAY		
GAL	GALLON	RT	RIGHT		
GALV	GALVANIZED	R/W	RIGHT OF WAY		
GEN	GENERAL OR GENERATOR				
GP	GUARD POST, GUY POLE, OR GATE POST				
GS	GALVANIZED STEEL				

&	AND
#	POUND, NUMBER
	SURVEY CONTROL POINT
	FINISH GRADE SPOT ELEVATION
	EXISTING SPOT ELEVATION (SCREENED)
	TO BE DEMOLISHED AND/OR REMOVED
	LIMITS OF WORK
	NEW CONCRETE AREA
	CENTER LINE
	NATURAL GROUND OR FINISH GRADE
	NEW CONC BOUNDARY
	EXISTING (SCREENED)
	SLOPE
	APPROXIMATE DIRECTION OF ASSUMED SURFACE DRAINAGE RUNOFF
	APPROXIMATE LIMITS OF GRADING

P:\PROJECTS\HAWAII STATE OF (HI)\146834 ADA_KAHAKAPAO RECREATIONAL AREA MAUI_CADD\2-SHEETS\G-GENERAL\146834-SF-G-001.DWG 5/5/2016 RSELLONA

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION KAHAKAPAO RECREATIONAL AREA ADA IMPROVEMENTS					
ABBREVIATIONS AND LEGEND					
DESIGNED: AC		SUBMITTED: MS <i>MS</i>			
DRAWN: RS		DATE: MAY 2016			
CHECKED: MN		SCALE: NA			
APPROVED: <i>[Signature]</i>		DATE: MAY 6 2016		DRAWING NO. G-1	
APRIL 30, 2018 EXPIRATION DATE OF THE LICENSE		CHIEF ENGINEER			

GENERAL AND CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL PERFORM APPLICABLE CONSTRUCTION WORK IN ACCORDANCE WITH THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION," DATED SEPTEMBER 1984 AS AMENDED AND "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," DATED SEPTEMBER 1986, OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF MAUI, AND "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," 2005, OF THE DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION, STATE OF HAWAII, AS AMENDED.
2. THE UNDERGROUND UTILITY LINES AND/OR STRUCTURES KNOWN TO EXIST BY THE ENGINEER FROM HIS/HER SEARCH OF RECORDS ARE INDICATED ON THE PLANS. UNLESS OTHERWISE NOTED, ALL LOCATIONS OF UNDERGROUND UTILITY LINES AND/OR STRUCTURES ARE APPROXIMATE. THE INFORMATION SHOWN, THEREFORE, MAY OR MAY NOT BE REPRESENTATIVE OF ACTUAL FIELD CONDITIONS. THE UNDERGROUND UTILITY LINES AND/OR STRUCTURES MAY OR MAY NOT BE PRESENT AT THE LOCATIONS SHOWN OR OTHER UNDERGROUND UTILITY LINES AND/OR STRUCTURES NOT SHOWN MAY BE PRESENT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE UNDERGROUND UTILITY LINES AND/OR STRUCTURES AND EXERCISE PROPER CARE WHEN EXCAVATING IN THE AREA. PROTECT EXISTING UTILITIES AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO THEM SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR.
3. PRIOR TO THE START OF EXCAVATION, THE CONTRACTOR SHALL NOTIFY ALL APPLICABLE AGENCIES AND HAVE THEM LOCATE THEIR RESPECTIVE UTILITY LINES IN THE PROJECT AREA PRIOR TO EXCAVATING. THE CONTRACTOR SHALL BE HELD RESPONSIBLE AND SHALL PAY FOR ALL DAMAGES TO AND MAINTENANCE AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES.
4. TOPOGRAPHIC SURVEY WAS CONDUCTED BY CONTROLPOINT SURVEYING, INC., DATED MARCH 27, 2015, AND MAP WAS COMPLETED ON MAY 19, 2015. BENCHMARK WAS BASED ON ELEVATIONS REFERRED TO STA. CP-3 MAG NAIL, ELEV=2801.38, LOCATED ON KAHAKAPAO ROAD, SEE DWG C-2.

HORIZONTAL DATUM: NAD83 (PA11) (EPOCH:2010.000)
COORDINATES SYSTEM: STATE PLANE (ZONE 5102 HI 2)
VERTICAL DATUM: GEOID12A.

HORIZONTAL AND VERTICAL CONTROL ESTABLISHED THROUGH NGS OPUS SOLUTION AND GPS STATIC POST-PROCESSING.
5. EXISTING CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE AND OBTAINED FROM TOPOGRAPHIC SURVEY MAP BY CONTROLPOINT SURVEYING, INC., DATED MAY 27, 2015, FIELD INVESTIGATIONS AND RECORD DRAWINGS. PROSPECTIVE CONTRACTORS SHALL VISIT THE PREMISES AND THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL WORK DETAILS AND CONDITIONS BEFORE SUBMITTING BID. REASONABLE MODIFICATIONS TO INDICATED DIMENSIONS AND ARRANGEMENTS TO SUIT ACTUAL JOB CONDITIONS SHALL NOT CONSTITUTE BASIS FOR REQUESTING OF ADDITIONAL FUNDS FROM DLNR. NO COMPENSATION SHALL BE MADE BECAUSE OF ANY MISUNDERSTANDING OR ERROR REGARDING CONDITIONS OR AMOUNT OF WORK TO BE DONE.
6. PRIOR TO ORDERING MATERIALS AND EQUIPMENT, THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, MATERIALS, SIZES, AND DIMENSIONS THAT AFFECT HIS/HER WORK. NOTIFY THE ENGINEER OF ALL DISCREPANCIES IN WRITING AT LEAST TWO (2) WEEKS PRIOR TO PROCUREMENT.
7. VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY BETWEEN THE EXISTING UTILITIES AS SHOWN ON THE DRAWINGS AND IN THE GROUND SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION. CONTRACTOR SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL WRITTEN NOTIFICATION IS RECEIVED FROM THE ENGINEER. OTHERWISE THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY COST INVOLVED IN CORRECTION OF CONSTRUCTION COMPLETED DUE TO SUCH DISCREPANCIES.
8. WHEN 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 UNDERPINNING TO FULLY PROTECT IT FROM DAMAGE.
9. BACKFILL SHALL BE SANDY OR GRANULAR MATERIAL COMPLETELY PLACED AS SOON AS THE UNDERGROUND PIPES, CABLES, OR DUCTLINES ARE LAID AND TESTED. THE BACKFILL MATERIAL SHALL BE RAMMED WITH PROPER TOOLS UNTIL COMPACTED TO MINIMUM OF 90% OF ITS MAXIMUM DENSITY.
10. DURING GRADING, BASE COURSE MATERIALS SHALL BE COMPACTED WITH PROPER TOOLS TO A MINIMUM OF 95% OF ITS MAXIMUM DENSITY.
11. ALL WORK CALLED FOR ON THE PLANS AND NOT ITEMIZED IN THE PROPOSAL AND ALL WORK NOT CALLED FOR BUT REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT, SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE CONTRACTOR'S BID PRICE.
12. THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL OR BETTER CONDITION ALL IMPROVEMENTS DAMAGED AS A RESULT OF THE CONSTRUCTION, INCLUDING PAVEMENTS, EMBANKMENT, LANDSCAPING, STRUCTURES, UTILITIES, ETC. UNLESS PROVIDED FOR SPECIFICALLY IN THE PROPOSAL, DEMOLITION AND RESTORATION OF EXISTING ITEMS SHALL BE INCIDENTAL AND INCLUDED WITHIN THE CONTRACTOR'S BID PRICE.
13. PAYMENT FOR RESTORATION OF PAVEMENT AND OTHER CONCRETE STRUCTURES WILL NOT BE MADE DIRECTLY BUT SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE IN THE VARIOUS ITEMS OF THE BID.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF CHAPTER 54, "WATER QUALITY STANDARDS," AND CHAPTER 55, "WATER POLLUTION CONTROL," OF TITLE 11, HAWAII ADMINISTRATIVE RULES OF THE STATE DEPARTMENT OF HEALTH.
15. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER "AS-BUILT" DRAWINGS OF ALL NEW IMPROVEMENTS UPON COMPLETION OF WORK. THE DRAWINGS SHALL INCLUDE ALL CHANGES AND ADJUSTMENTS PERFORMED IN THE FIELD AND BE DRAWN ACCURATELY AND TO SCALE WITH APPROPRIATE CALLOUTS, ORIENTATION AND DIMENSIONING.
16. NON-COMPLIANCE TO ANY OF THE CONTRACT REQUIREMENTS SHALL MEAN IMMEDIATE SUSPENSION OF ALL WORK, AND REMEDIAL WORK SHOULD COMMENCE IMMEDIATELY. ALL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S NON-COMPLIANCE SHALL BE BILLED TO THE CONTRACTOR. FURTHERMORE, VIOLATORS SHALL BE SUBJECTED TO ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES.
17. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY AND FOR WORKER PROTECTION.
18. ALL EXISTING UTILITIES, SERVICE LINES, SUPPLY LINES AND COMMUNICATION LINES SHALL REMAIN IN PLACE AND IN SERVICE THROUGHOUT THE TERM OF THE PROJECT. IF INTERRUPTION OR RELOCATION OF EXISTING UTILITIES IS REQUIRED, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO WORK. THE CONTRACTOR SHALL COORDINATE INTERRUPTIONS WITH THE RESPECTIVE UTILITIES. INTERRUPTIONS SHALL BE KEPT TO A MINIMUM AND WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
19. THE CONTRACTOR SHALL PROVIDE SAFE ACCESS TO AND FROM ALL DRIVEWAYS AND STREETS.
20. THE CONTRACTOR SHALL SECURE ALL NECESSARY LICENSES, PERMITS, APPROVALS AND CLEARANCES, AND SHALL PAY ALL APPLICATIONS, LICENSES, PERMITS AND INSPECTION FEES REQUIRED FOR THE WORK AND SHALL GIVE ALL NOTICES NECESSARY FOR AND INCIDENTAL TO THE PROPER AND LAWFUL EXECUTION OF THE WORK.
21. THE CONTRACTOR SHALL MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO THE SITE AT ALL TIMES.
22. THE CONTRACTOR SHALL PROVIDE TEMPORARY SECURITY COVERS OVER ANY AND ALL OPENINGS CREATED AS A CONSEQUENCE OF THE PROJECT WORK. THE COVERING SHALL BE ADEQUATE TO PROTECT ALL NECESSARY IMPROVEMENTS FROM WEATHER. SECURITY COVERS SHALL BE PROVIDED WHENEVER THE CONTRACTOR IS AWAY FROM THE PROJECT SITE AND/OR AT THE DIRECTION OF THE ENGINEER.
23. CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE, IDENTIFYING START AND FINISH OF EACH MAJOR TASK, INCLUDING PARTIAL CLOSURE OF PARKING AREA. SUBMIT SCHEDULE IN BOTH MICROSOFT PROJECT 2010 (OR LATER VERSION) AND ADOBE ACROBAT FORMATS TO THE ENGINEER PRIOR TO START OF WORK FOR APPROVAL.
24. IF INADVERTENT CULTURAL OR HISTORIC FINDS ARE ENCOUNTERED, CONTACT THE ENGINEER ON SITE, AND THE STATE HISTORIC PRESERVATION DIVISION AT 808-692-8015. FOR HUMAN REMAINS OR BURIALS, AND CONTACT THE MAUI POLICE DEPARTMENT AT 808-244-6400.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE DEPARTMENT OF JUSTICE'S "2010 ADA STANDARDS FOR ACCESSIBLE DESIGN." ALL FINISHED WORK SHALL MEET THESE STANDARDS.
26. THE CONTRACTOR SHALL NOT PERFORM ANY CONSTRUCTION ACTIVITY THAT DIRECTLY OR INDIRECTLY RESULTS IN ROCKS, SOIL AND DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATER COURSES. SHOULD SUCH VIOLATIONS OCCUR, THE COST INCURRED FOR ANY REMEDIAL ACTION BY THE ENGINEER SHALL BE PAYABLE BY THE CONTRACTOR.
27. KAHAKAPAO RECREATIONAL AREA WILL REMAIN OPEN TO THE PUBLIC AND FULLY OPERATIONAL DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL ADEQUATE TEMPORARY BARRICADES AND WARNING SIGNS TO PROTECT THE PUBLIC DURING CONSTRUCTION. THE CONTRACTOR SHALL ENSURE THAT THE PUBLIC PARKING AREA, VEHICULAR ACCESS AND PEDESTRIAN WAYS REMAIN UNOBSTRUCTED AND SAFE DURING THE CONSTRUCTION PERIOD. ANY RESTRICTIONS TO PUBLIC ACCESS SHALL BE COORDINATED WITH THE ENGINEER AND DOFAW AT LEAST TEN (10) WORKING DAYS IN ADVANCE.
28. THE CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY; AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE STATE AND COUNTY OF MAUI HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE STATE.
29. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES, AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.
30. SHOULD HAZARDOUS MATERIAL BE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED AND ALL WORK SHALL BE SUSPENDED UNTIL THE MATERIAL IS PROPERLY REMEDIATED, HANDLED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND REQUIREMENTS.

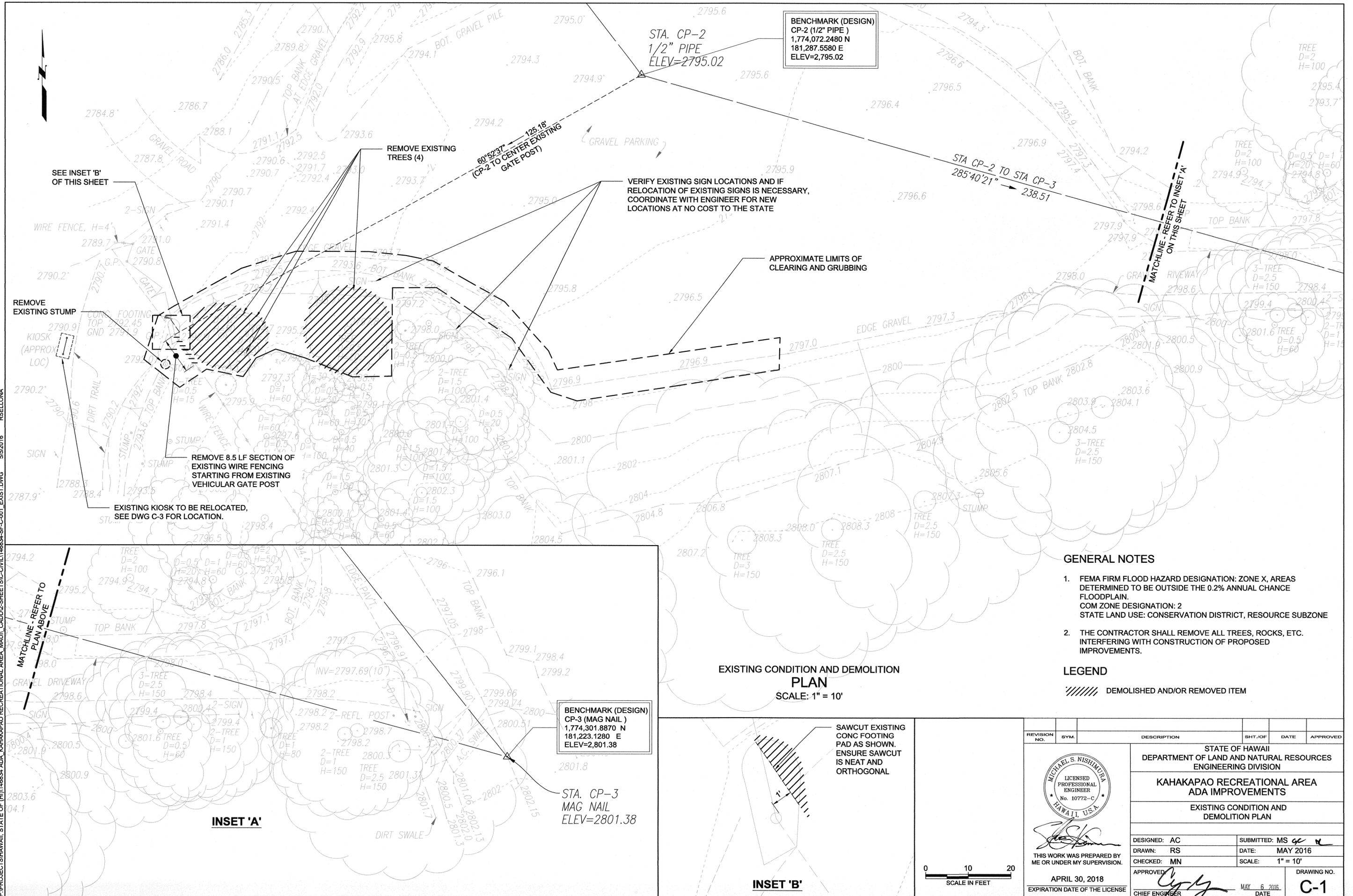
GRADING NOTES

1. 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 STATE SHALL BE PAYABLE BY THE CONTRACTOR.
2. THE CONTRACTOR, AT HIS/HER OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREAS FREE FROM DUST NUISANCES USING DUST SCREENS OR OTHER EROSION CONTROL METHODS. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL RULES OF THE STATE DEPARTMENT OF HEALTH.
3. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS," AND CHAPTER 55, "WATER POLLUTION CONTROL," AND TO THE EROSION AND SEDIMENTATION CONTROL STANDARDS AND GUIDELINES OF THE DEPARTMENT OF PUBLIC WORKS.
4. THE CONTRACTOR SHALL SOD, PLANT OR HYDROMULCH ALL SLOPES AND EXPOSED AREAS IMMEDIATELY AFTER THE GRADING WORK HAS BEEN COMPLETED.
5. THE CONTRACTOR SHALL INFORM THE ENGINEER 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.
6. NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS ANYTIME WITHOUT PRIOR APPROVAL FROM THE STATE. GRADING WORK ON NORMAL WORKING DAYS SHALL BE BETWEEN THE HOURS OF 7:00 AM AND 3:30 PM.
7. FILLS SHALL BE PLACED IN HORIZONTAL LAYERS NOT MORE THAN 8" IN LOOSE THICKNESS, MOISTEN AS REQUIRED, AND COMPACTED TO NOT LESS THAN 95 PERCENT RELATIVE DENSITY.
8. THE CONTRACTOR SHALL REMOVE ALL VEGETATION BEFORE PLACING FILLS ON NATURAL GROUND SURFACE.
9. THE LIMITS OF GRADED AREA SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.
10. GRADING SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INSTALLATION OF PROJECT FACILITIES.
11. ALL STABILIZED AND GRADED AREAS SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
12. THE CONTRACTOR SHALL PAY FOR ALL COSTS INCURRED FOR THIS WORK. NO EXTRAS WILL BE CONSIDERED FOR MAINTENANCE PERIOD EXCEEDING SIXTY (60) DAYS.
13. TO ALLOW FOR TOPSOIL, CUT AREAS SHALL BE OVEREXCAVATED BY SIX (6) INCHES AND FILL AREAS SHALL BE STOPPED SIX (6) INCHES BELOW GRADES SHOWN.
14. THE CONTRACTOR SHALL INSTALL DUST SCREEN AS PER DET B ON DWG C-11 AROUND THE PERIMETER OF PROJECT WORK AND ADJUST ITS HEIGHT ACCORDINGLY AS NEEDED TO AVOID DUST NUISANCE TO ADJACENT AND NEARBY PROPERTIES. THE CONTRACTOR SHALL CHECK AND MAINTAIN THE SCREEN REGULARLY THROUGHOUT PROJECT CONSTRUCTION AND REPAIR/REPLACE ANY DAMAGED SECTIONS AS NEEDED. AT THE END OF THE PROJECT, THE CONTRACTOR SHALL REMOVE THE SCREEN IN ITS ENTIRETY AND RETURN THE AFFECTED AREA TO ITS ORIGINAL CONDITION, OR BETTER.

P:\PROJECTS\HAWAII STATE OF (HI)\146834 ADA_KAHAKAPAO RECREATIONAL AREA_MAUI_CADD\2-SHEETS\G-GENERAL\146834-SF-G-002.DWG 5/5/2016 RSELLONA

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
		STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION			
		KAHAKAPAO RECREATIONAL AREA ADA IMPROVEMENTS			
		GENERAL AND CONSTRUCTIONS NOTES			
		DESIGNED: AC	SUBMITTED: MS <i>gc</i>		
		DRAWN: RS	DATE: MAY 2016		
		CHECKED: MN	SCALE: NA		
		APPROVED: <i>Cyly</i>	DRAWING NO. G-2		
		APRIL 30, 2018	MAY 6 2016		
		EXPIRATION DATE OF THE LICENSE	DATE		
		JOB NO. J00CM60A SHEET NO. 3 OF 14 SHEETS			

P:\PROJECTS\HAWAII STATE OF (H)\146834.ADA KAHAKAPOO RECREATIONAL AREA MAUI CADD\2-SHEETS\CIVIL\46834-SF-C-001_EXIST.DWG 5/5/2016 RSELLONA



BENCHMARK (DESIGN)
 CP-2 (1/2" PIPE)
 1,774,072.2480 N
 181,287.5580 E
 ELEV=2,795.02

STA. CP-2
 1/2" PIPE
 ELEV=2795.02

BENCHMARK (DESIGN)
 CP-3 (MAG NAIL)
 1,774,301.8870 N
 181,223.1280 E
 ELEV=2,801.38

STA. CP-3
 MAG NAIL
 ELEV=2801.38

VERIFY EXISTING SIGN LOCATIONS AND IF RELOCATION OF EXISTING SIGNS IS NECESSARY, COORDINATE WITH ENGINEER FOR NEW LOCATIONS AT NO COST TO THE STATE

APPROXIMATE LIMITS OF CLEARING AND GRUBBING

EXISTING CONDITION AND DEMOLITION PLAN
 SCALE: 1" = 10'

SAWCUT EXISTING CONC FOOTING PAD AS SHOWN. ENSURE SAWCUT IS NEAT AND ORTHOGONAL

GENERAL NOTES

- FEMA FIRM FLOOD HAZARD DESIGNATION: ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
 COM ZONE DESIGNATION: 2
 STATE LAND USE: CONSERVATION DISTRICT, RESOURCE SUBZONE
- THE CONTRACTOR SHALL REMOVE ALL TREES, ROCKS, ETC. INTERFERING WITH CONSTRUCTION OF PROPOSED IMPROVEMENTS.

LEGEND

////// DEMOLISHED AND/OR REMOVED ITEM

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION KAHAKAPOO RECREATIONAL AREA ADA IMPROVEMENTS EXISTING CONDITION AND DEMOLITION PLAN					
		DESIGNED: AC DRAWN: RS CHECKED: MN APPROVED: <i>[Signature]</i> CHIEF ENGINEER			
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. APRIL 30, 2018 EXPIRATION DATE OF THE LICENSE		SUBMITTED: MS DATE: MAY 2016 SCALE: 1" = 10' MAY 6 2016 DATE		DRAWING NO. C-1	
JOB NO. J00CM60A SHEET NO. 4 OF 14 SHEETS					



INSET 'A'

INSET 'B'

P:\PROJECTS\HAWAII, STATE OF (H1)\146834 ADA KAHAKAPOO RECREATIONAL AREA MAUII_CADD\2-SHEETS\CIVIL\146834-SF-C-02-OVERALL.DWG 5/5/2016 RSELLONA



START RETAINING WALL DRAIN PIPE
INV=2793.8'. INSTALL WEEP HOLE IN
WALL AT PIPE OPENING FOR DRAINAGE

STA. CP-2
1/2" PIPE
ELEV=2795.02

BENCHMARK (DESIGN)
CP-2 (1/2" PIPE)
1,774,072.2480 N
181,287.5580 E
ELEV=2,795.02

ADA-COMPLIANT
PLASTIC PICNIC TABLE

4'-WIDE CONCRETE
WALKWAY

CONCRETE ADA
PARKING AREA

CONCRETE PAD

STANDARD PORTABLE
TOILET, BY OTHERS

RELOCATED
INFORMATION KIOSK

4'-WIDE PEDESTRIAN
SWING GATE

BEGIN RETAINING WALL
(FRONT TOE)

END RETAINING
WALL (FRONT TOE)

END RETAINING WALL
DRAIN PIPE, DAYLIGHTS
TO GRADE

2-3/8" DIA FENCE POST,
REATTACH EXISTING WIRE
FENCE TO NEW POST

R=56.0'
ARC LENGTH=69.75'
Δ=69°28'05"
CHORD LENGTH=65.33'

ADA PORTABLE TOILET,
50-GALLON TANK, BY OTHERS

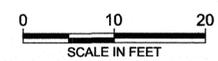
CONCRETE MODULAR
SEGMENTAL RETAINING WALL

ADA PARKING
STALL SIGNAGE

BENCHMARK (DESIGN)
CP-3 (MAG NAIL)
1,774,301.8870 N
181,223.1280 E
ELEV=2,801.38 MSL

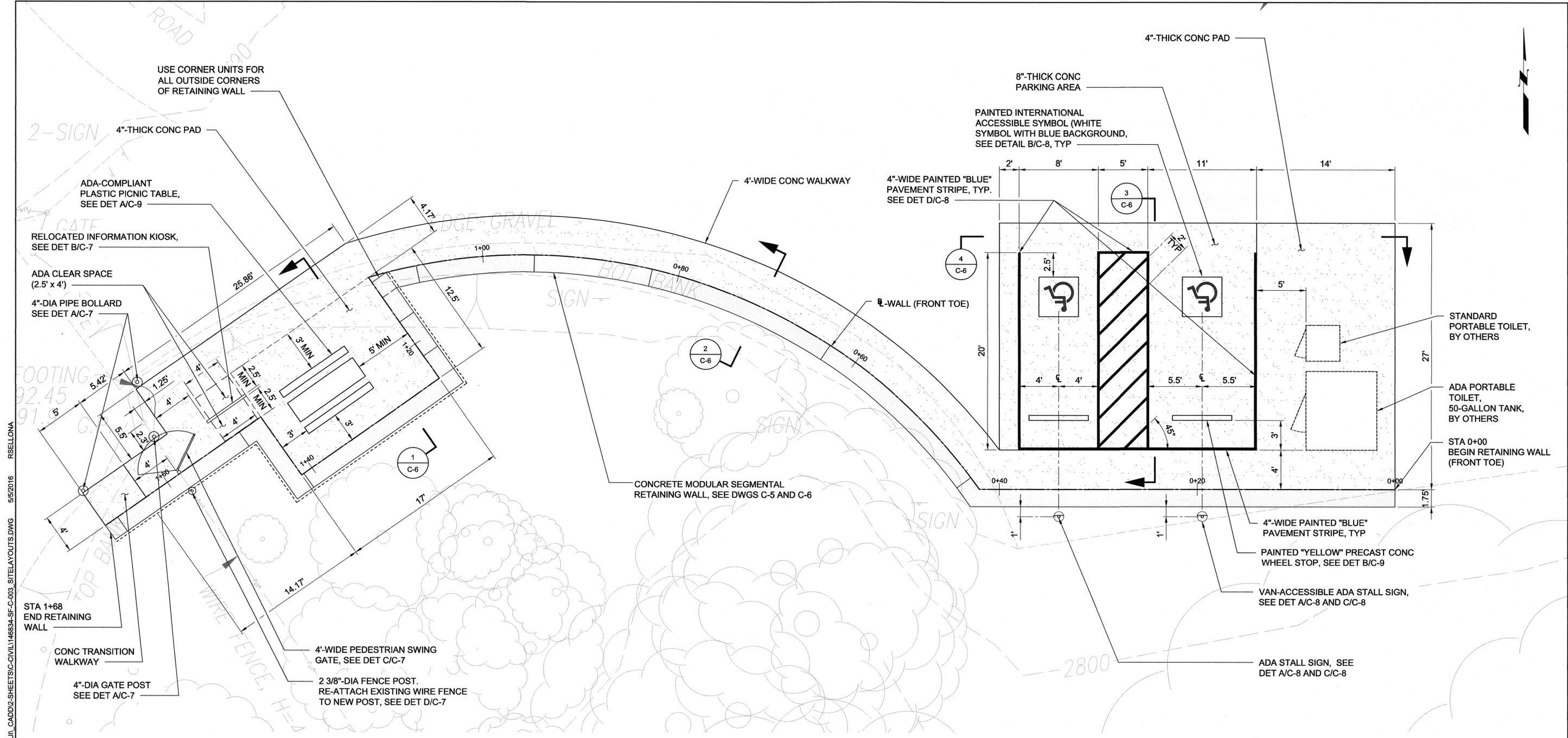
STA. CP-3
MAG NAIL
ELEV=2801.38

OVERALL SITE
PLAN
SCALE: 1" = 10'



INSET "A"

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION KAHAKAPOO RECREATIONAL AREA ADA IMPROVEMENTS OVERALL SITE PLAN					
DESIGNED: AC	SUBMITTED: MS				
DRAWN: RS	DATE: MAY 2016				
CHECKED: MN	SCALE: 1" = 10'				
APPROVED:	DATE: MAY 6 2016		DRAWING NO. C-2		
EXPIRATION DATE OF THE LICENSE			JOB NO. J00CM60A		
SHEET NO. 5 OF 14 SHEETS					



ENLARGED SITE
PLAN
SCALE: 1" = 5'

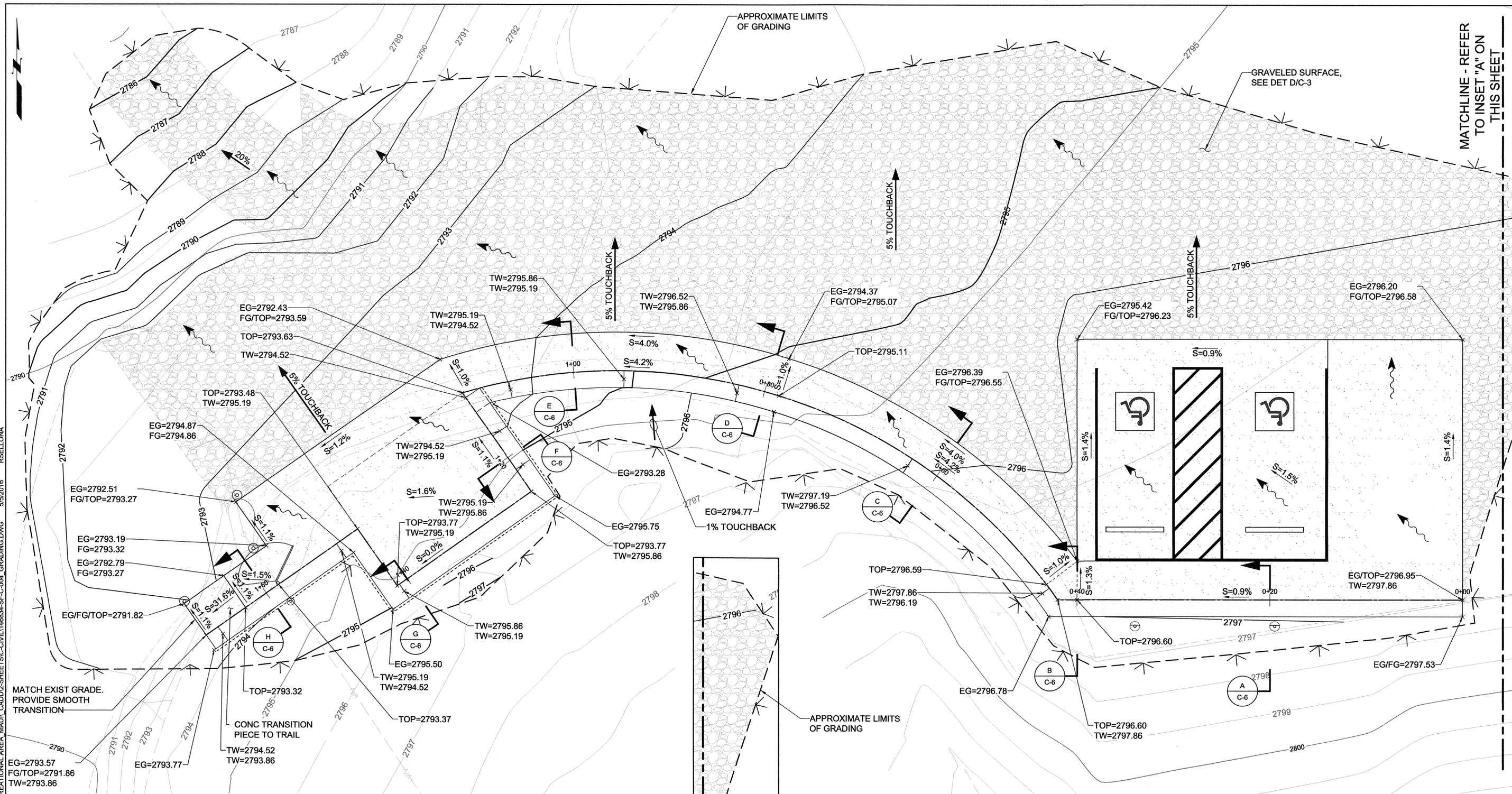
P:\PROJECTS\HAWAII STATE OF (H)\146834 ADA_KAHAKAPOO RECREATIONAL AREA_MAUJI_CADD\2-SHEET\IS-C-CIVIL\146834-SF-C-003_SITE\A\OUTS.DWG 5/5/2016 RSELLONA



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION KAHAKAPOO RECREATIONAL AREA ADA IMPROVEMENTS ENLARGED SITE PLAN					
		DESIGNED: AC DRAWN: RS CHECKED: MN APPROVED: <i>[Signature]</i> CHIEF ENGINEER			
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. APRIL 30, 2018 EXPIRATION DATE OF THE LICENSE		SUBMITTED: MS <i>[Signature]</i> DATE: MAY 2016 SCALE: 1" = 5' DATE: MAY 6 2016			
JOB NO. J00CM60A			SHEET NO. 6 OF 14 SHEETS		

C-3

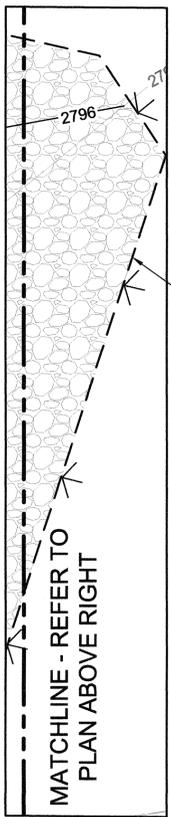
P:\PROJECTS\HAWAII, STATE OF (H)\146834 ADA_KAHAKAPOO RECREATIONAL AREA MAUI CAD\2-SHEETS\CIVIL\146834-SF-C-004 GRADING.DWG 5/2/2016 RSELLONA



GENERAL NOTES

- UNLESS OTHERWISE NOTED, ALL FINISHED GRADES SHALL COMPLY WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. CONCRETE PADS AND LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2.0% IN ALL DIRECTIONS. THE CONCRETE WALKWAY SHALL HAVE A MAXIMUM RUNNING SLOPE OF 5.0% AND A MAXIMUM CROSS SLOPE OF 2.0%.
- APPROXIMATE EARTHWORK QUANTITIES:
 EXCAVATION: 10.07 CY
 FILL: 114.32 CY
 GRADED AREA: 7,893 SQ FT
- EXISTING GRAVEL SHALL BE REUSED FOR SITE PARKING AREAS AS SHOWN.
- REFER TO DWG C-6 FOR WALL CROSS SECTIONS.
- THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO ALLOW FOR CONTINUOUS AND SAFE VEHICULAR AND PEDESTRIAN TRAFFIC THROUGHOUT CONSTRUCTION WORK.

**GRADING AND PAVEMENT PLAN
 PLAN
 SCALE: 1" = 5'**



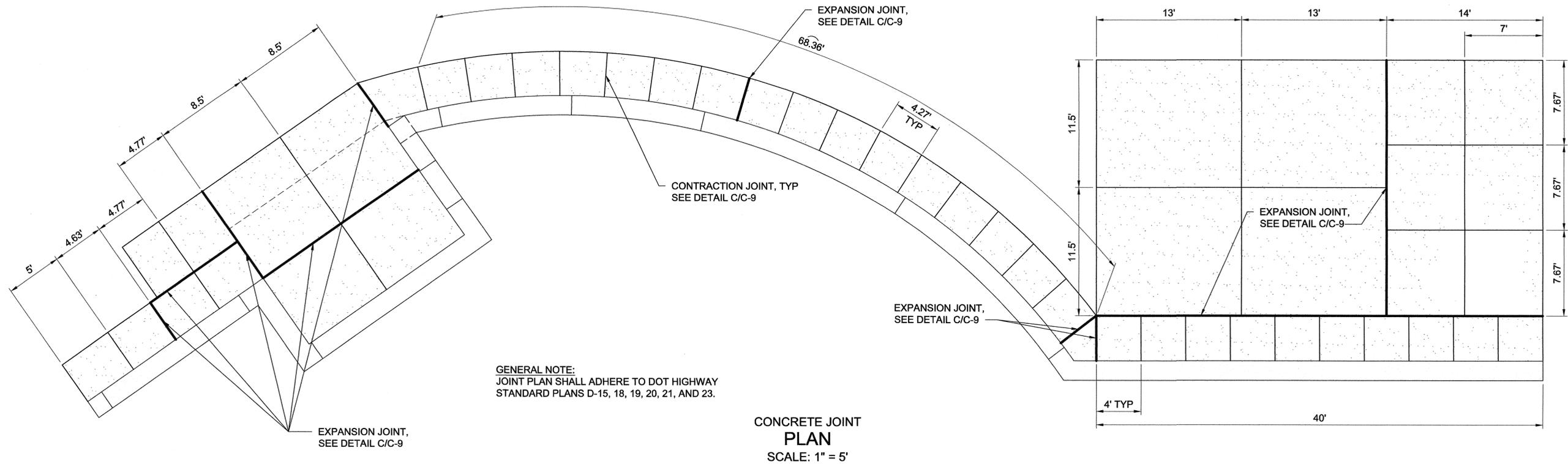
INSET "A"



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

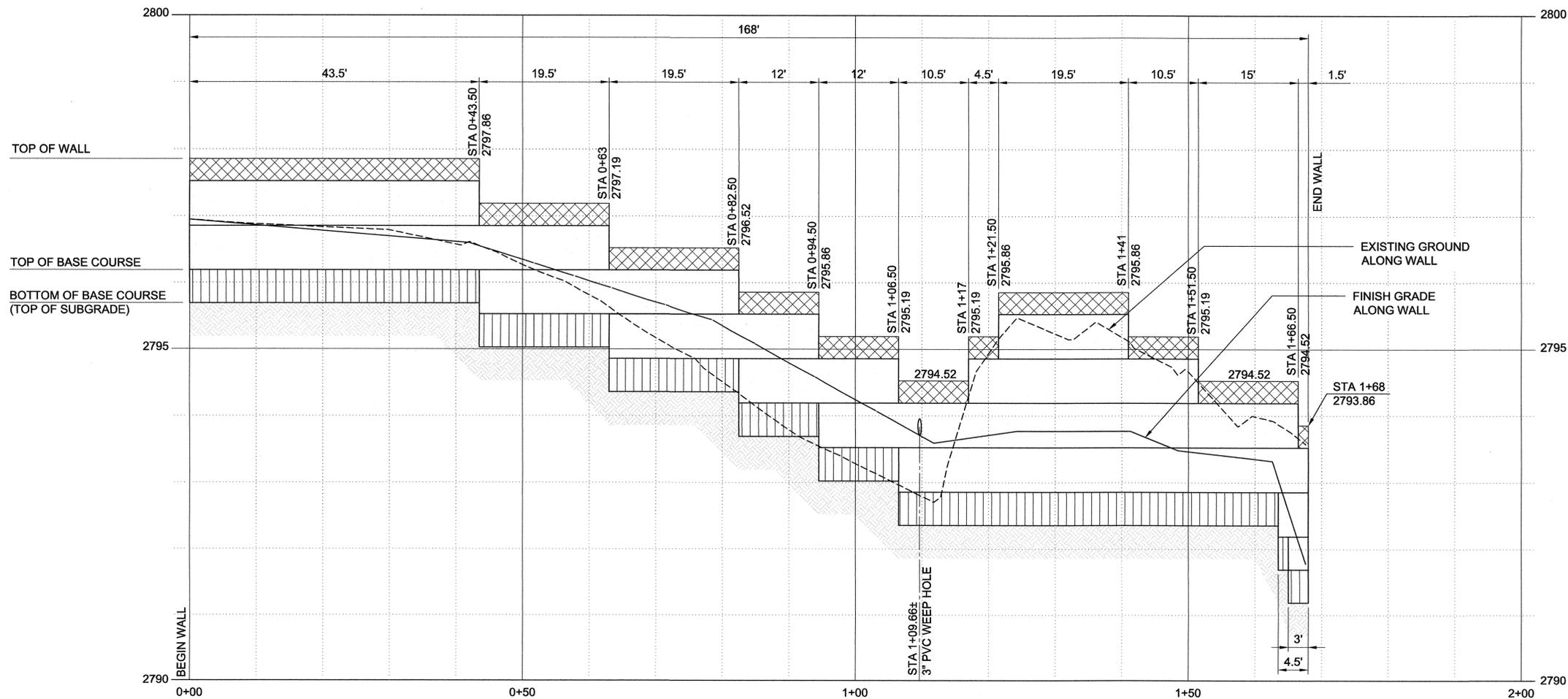
		STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION	
		KAHAKAPOO RECREATIONAL AREA ADA IMPROVEMENTS	
GRADING AND PAVEMENT PLAN			
DESIGNED: AC	SUBMITTED: MS		
DRAWN: RS	DATE: MAY 2016		
CHECKED: MN	SCALE: 1" = 5'		
APPROVED:	DRAWING NO. C-4		
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.		EXPIRATION DATE OF THE LICENSE	
APRIL 30, 2018		MAY 6 2016	
JOB NO. J00CM60A		SHEET NO. 7 OF 14 SHEETS	

P:\PROJECTS\HAWAII, STATE OF (H)\1146834-ADA-KAHAKAPOO RECREATIONAL AREA MAUI\CADD\2-SHEETS\CIVIL\1146834-SF-C-05-JOINTPLAN.DWG 5/5/2016 RSELLONA



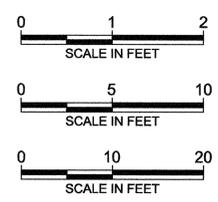
GENERAL NOTE:
JOINT PLAN SHALL ADHERE TO DOT HIGHWAY
STANDARD PLANS D-15, 18, 19, 20, 21, AND 23.

CONCRETE JOINT
PLAN
SCALE: 1" = 5'



LEGEND

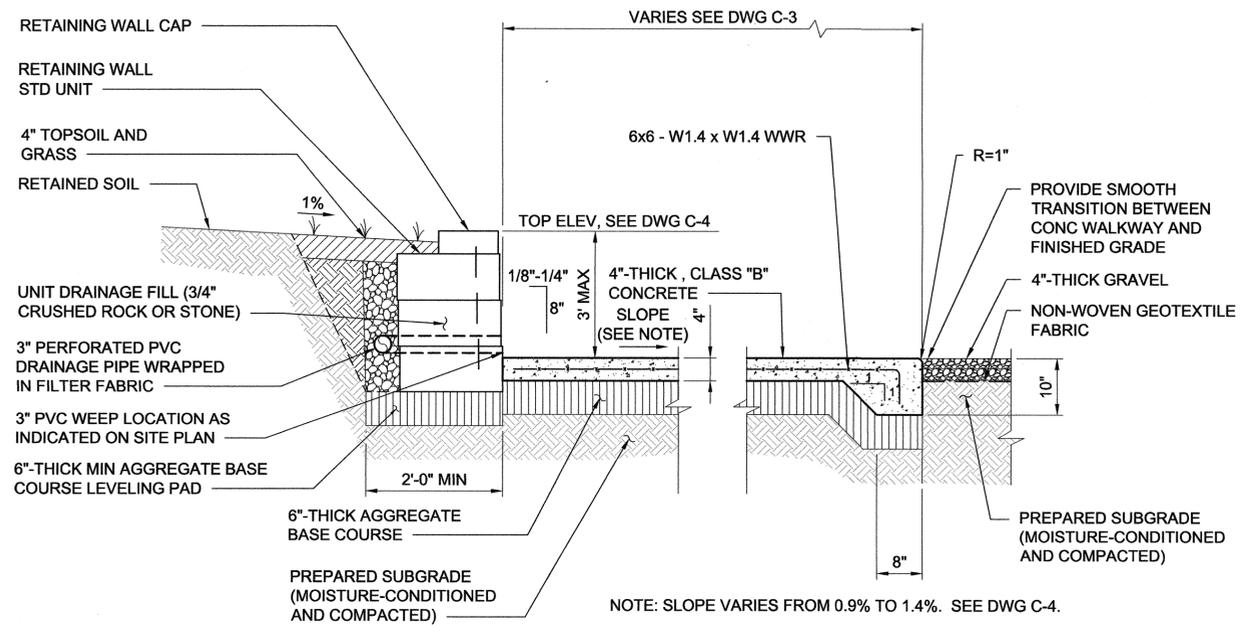
- WALL CAP (ASSUMED 4" HIGH)
- CONCRETE BLOCK (ASSUMED 8" HIGH)
- BASE COURSE (6" THICK)



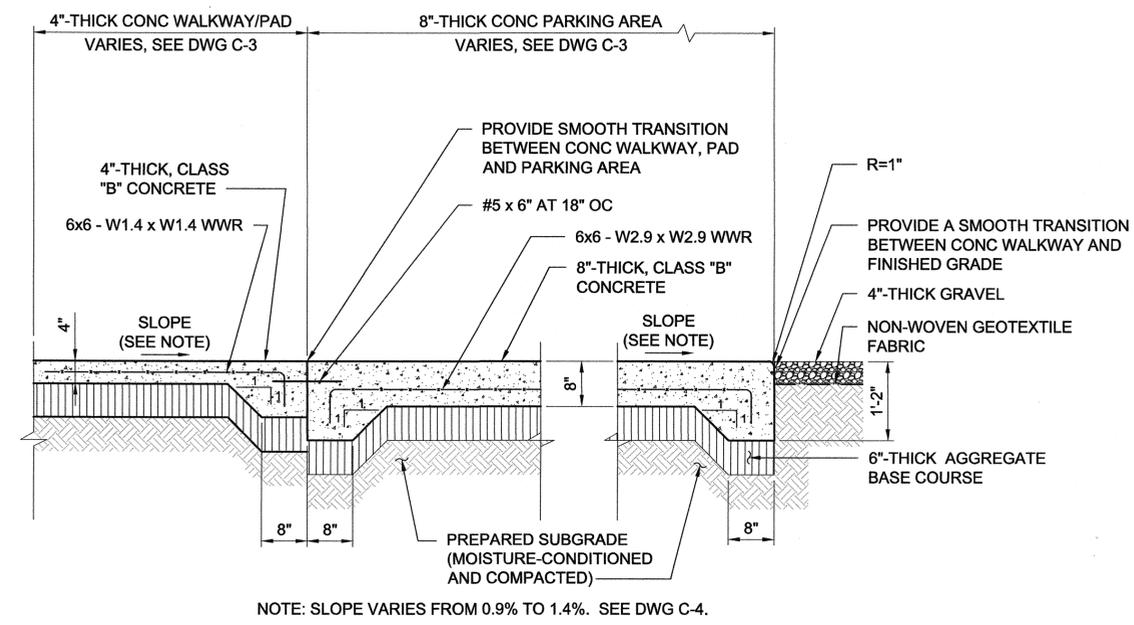
WALL PROFILE ALONG B-WALL (FRONT TOE)

SCALE: HORIZ 1" = 10'
VERT 1" = 1'

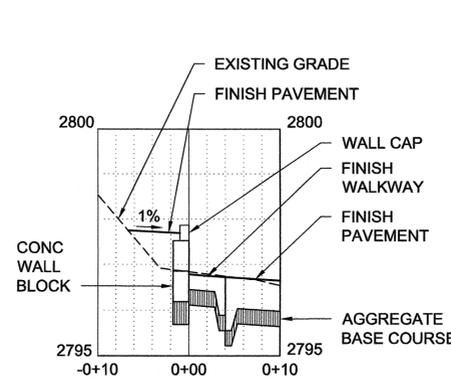
REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION KAHAKAPOO RECREATIONAL AREA ADA IMPROVEMENTS CONCRETE JOINT PLAN AND PROFILE OF WALL					
DESIGNED: AC	SUBMITTED: MS				
DRAWN: RS	DATE: MAY 2016				
CHECKED: MN	SCALE: AS NOTED				
APPROVED:	DRAWING NO. C-5				
APRIL 30, 2018		MAY 6 2016			
EXPIRATION DATE OF THE LICENSE		DATE			
JOB NO. J00CM60A		SHEET NO. 8 OF 14 SHEETS			



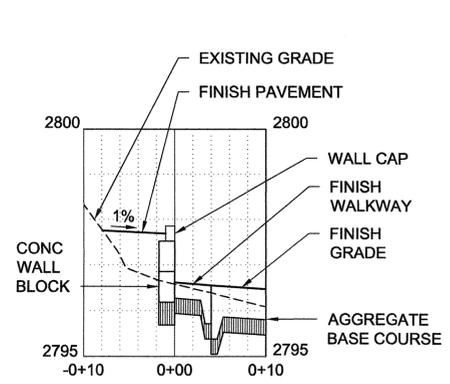
SECTION 1 2
C-3 C-3
SCALE: 3/4" = 1'-0"



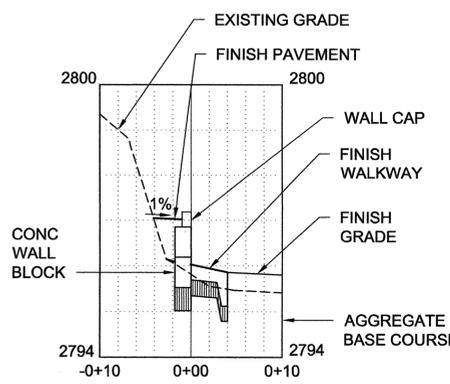
SECTION 3 4
C-3 C-3
SCALE: 3/4" = 1'-0"



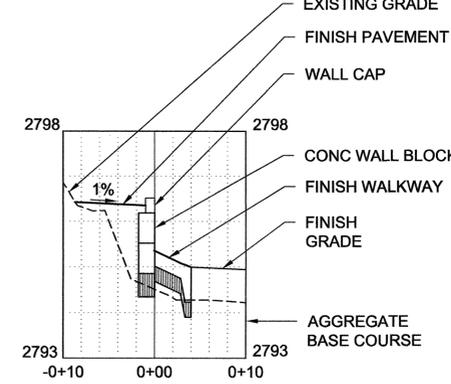
STA 0+20
SECTION A
C-4
SCALE: HORIZ 1"=10', VERT 1"=2'



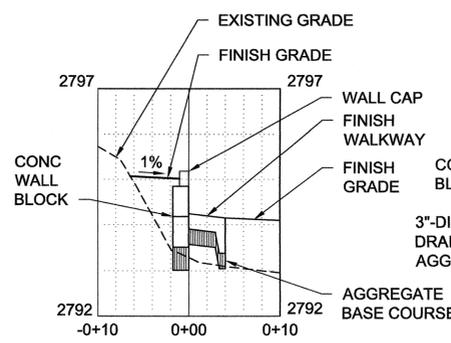
STA 0+40
SECTION B
C-4
SCALE: HORIZ 1"=10', VERT 1"=2'



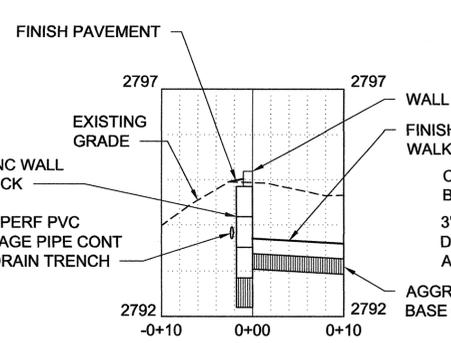
STA 0+60
SECTION C
C-4
SCALE: HORIZ 1"=10', VERT 1"=2'



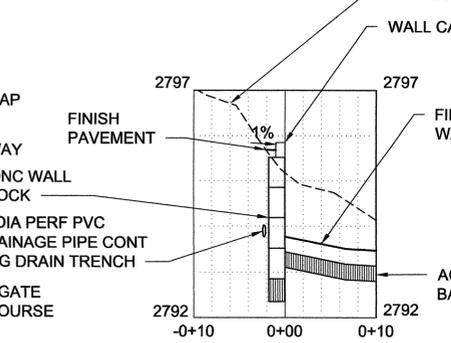
STA 0+80
SECTION D
C-4
SCALE: HORIZ 1"=10', VERT 1"=2'



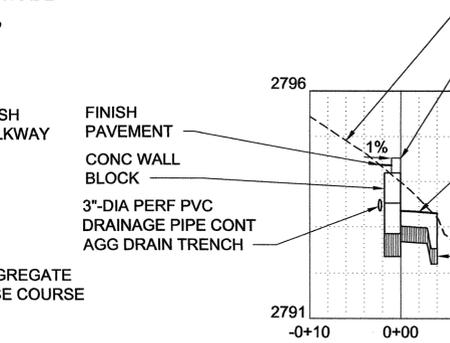
STA 1+00
SECTION E
C-4
SCALE: HORIZ 1"=10', VERT 1"=2'



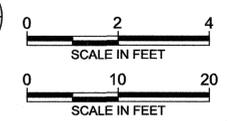
STA 1+20
SECTION F
C-4
SCALE: HORIZ 1"=10', VERT 1"=2'



STA 1+40
SECTION G
C-4
SCALE: HORIZ 1"=10', VERT 1"=2'

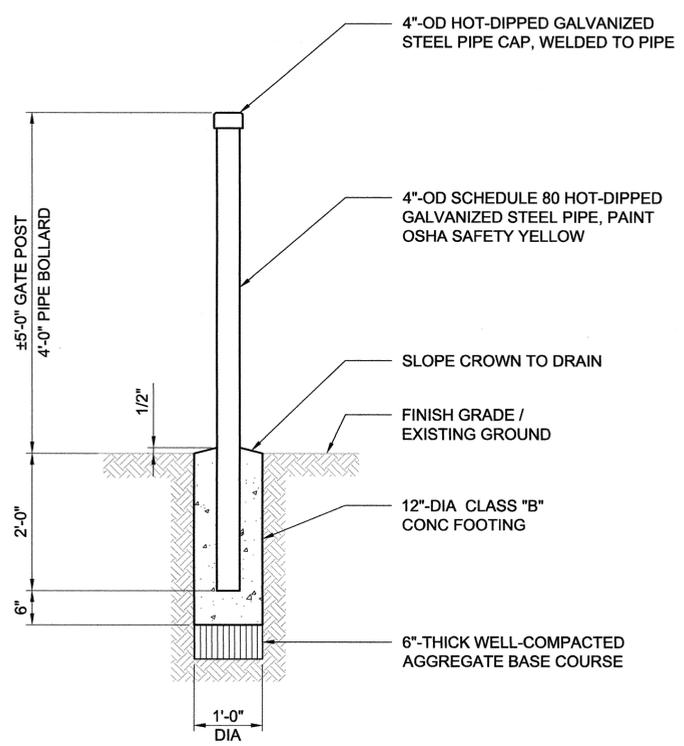


STA 1+60
SECTION H
C-4
SCALE: HORIZ 1"=10', VERT 1"=2'



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION KAHAKAPOO RECREATIONAL AREA ADA IMPROVEMENTS CONSTRUCTION DETAILS 1					
DESIGNED: AC		SUBMITTED: MS		DATE: MAY 2016	
DRAWN: RS		CHECKED: MN		SCALE: AS SHOWN	
APPROVED: <i>[Signature]</i>		APPROVED: <i>[Signature]</i>		DRAWING NO. C-6	
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.		APRIL 30, 2018		MAY 6 2016	
EXPIRATION DATE OF THE LICENSE		JOB NO. J00CM60A		SHEET NO. 9 OF 14 SHEETS	

P:\PROJECTS\HAWAII, STATE OF (H)\146834_ADA_KAHAKAPOO RECREATIONAL AREA_MAUJI_CADD\2-SHEETS\C-CIVIL\146834-SF-C-007_DETAIL.S2.DWG 5/5/2016 RSELLONA

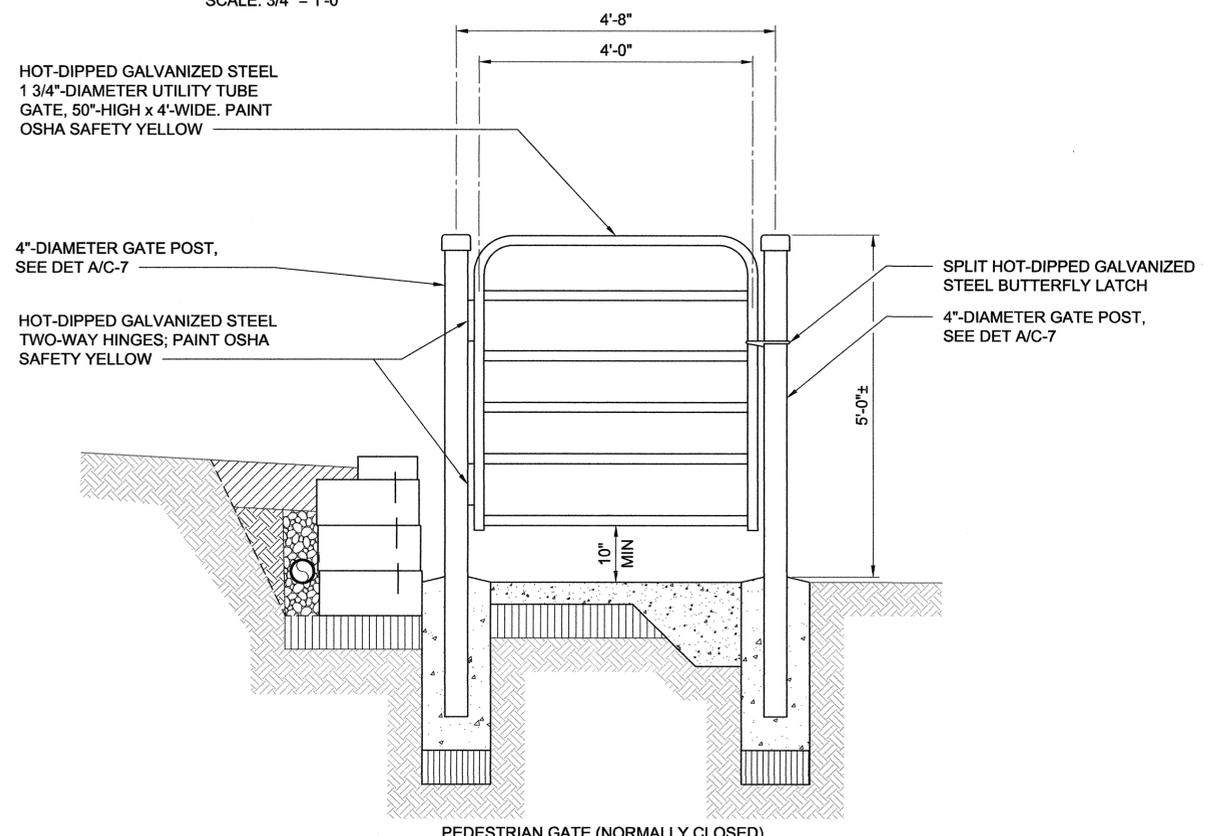


NOTE:
FOR PIPE BOLLARD, PIPE SHALL BE CONC-FILLED.

4" DIAMETER GATE POST / PIPE BOLLARD

DETAIL A
C-3

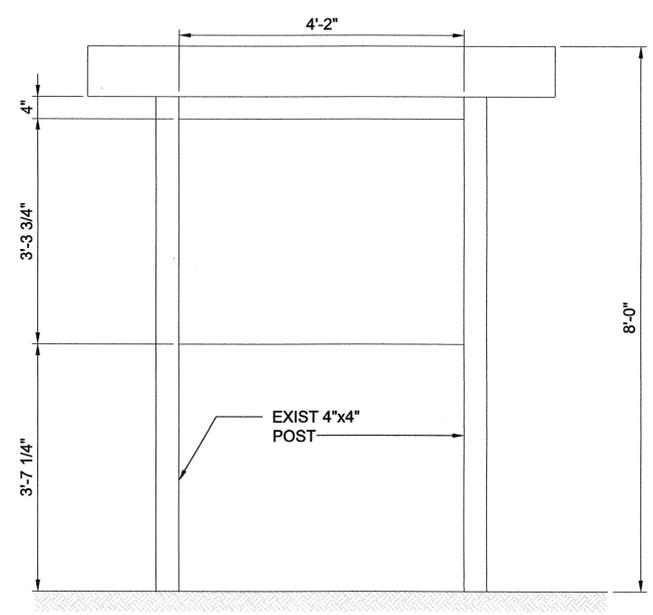
SCALE: 3/4" = 1'-0"



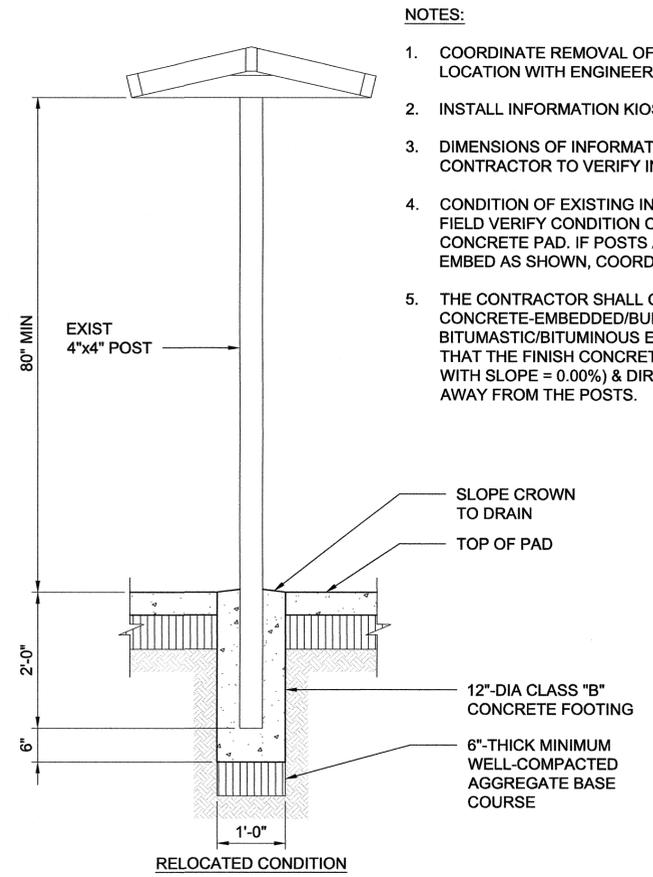
PEDESTRIAN GATE (NORMALLY CLOSED)

DETAIL C
C-3

SCALE: 3/4" = 1'-0"



EXISTING CONDITION



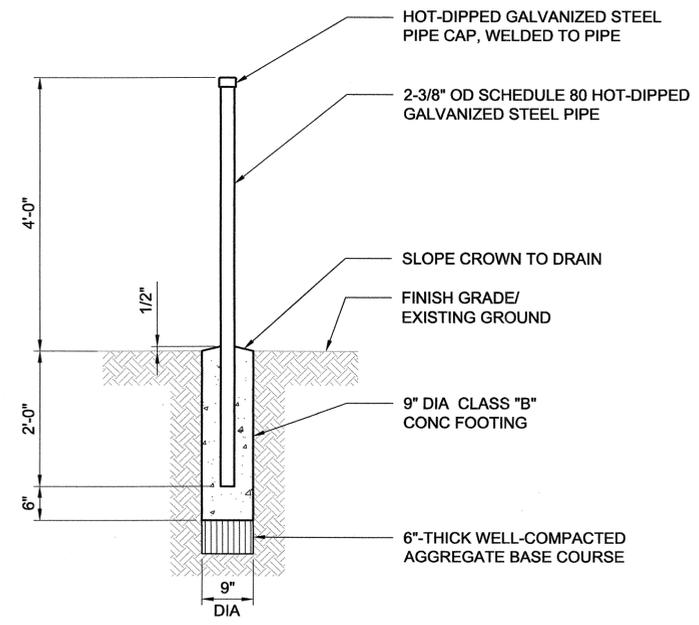
RELOCATED CONDITION

- NOTES:
- COORDINATE REMOVAL OF INFORMATION KIOSK FROM EXISTING LOCATION WITH ENGINEER.
 - INSTALL INFORMATION KIOSK IN LOCATION SHOWN ON PLANS.
 - DIMENSIONS OF INFORMATION KIOSK SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY IN THE FIELD.
 - CONDITION OF EXISTING INFORMATION KIOSK POSTS IS UNKNOWN. FIELD VERIFY CONDITION OF POSTS PRIOR TO EMBEDMENT IN CONCRETE PAD. IF POSTS ARE NOT IN ACCEPTABLE CONDITION TO EMBED AS SHOWN, COORDINATE WITH THE ENGINEER.
 - THE CONTRACTOR SHALL COAT PORTION OF POSTS TO BE CONCRETE-EMBEDDED/BURIED WITH WATERPOOF BITUMASTIC/BITUMINOUS ELASTOMERIC SEALANT AND ENSURE THAT THE FINISH CONCRETE PAD SURFACE IS NOT LEVEL (FLAT WITH SLOPE = 0.00%) & DIRECTS SURFACE RUNOFF POSITIVELY AWAY FROM THE POSTS.

INFORMATION KIOSK

DETAIL B
C-3

SCALE: 3/4" = 1'-0"



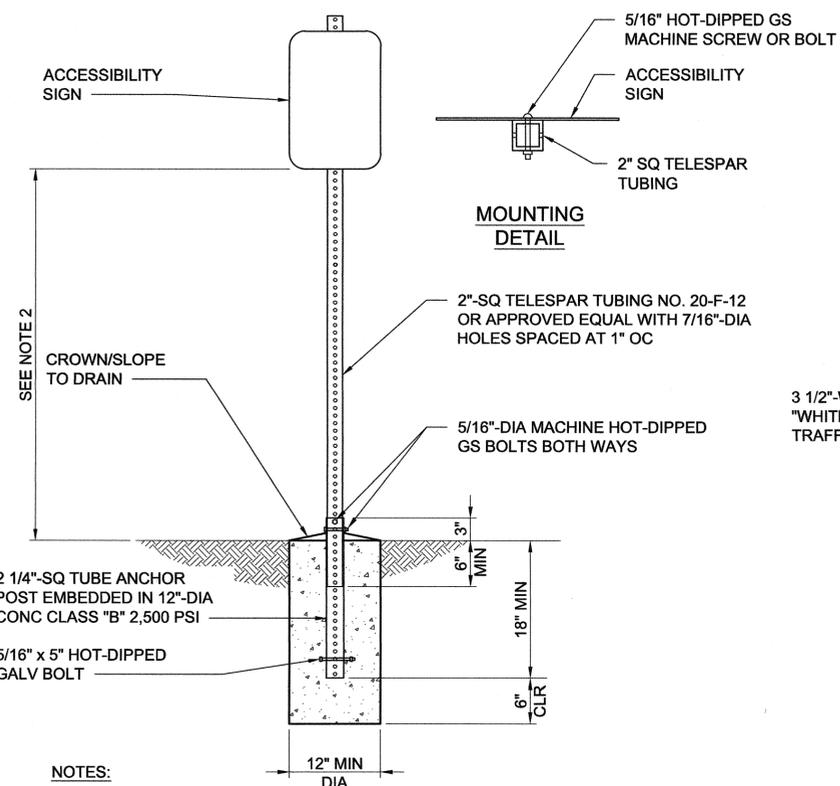
FENCE POST

DETAIL D
C-3

SCALE: 3/4" = 1'-0"

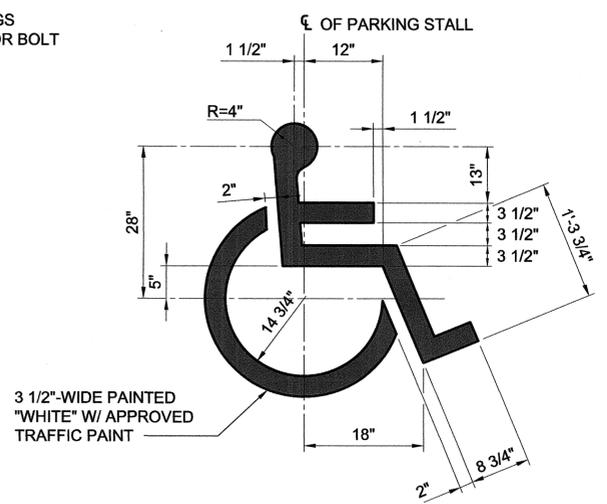
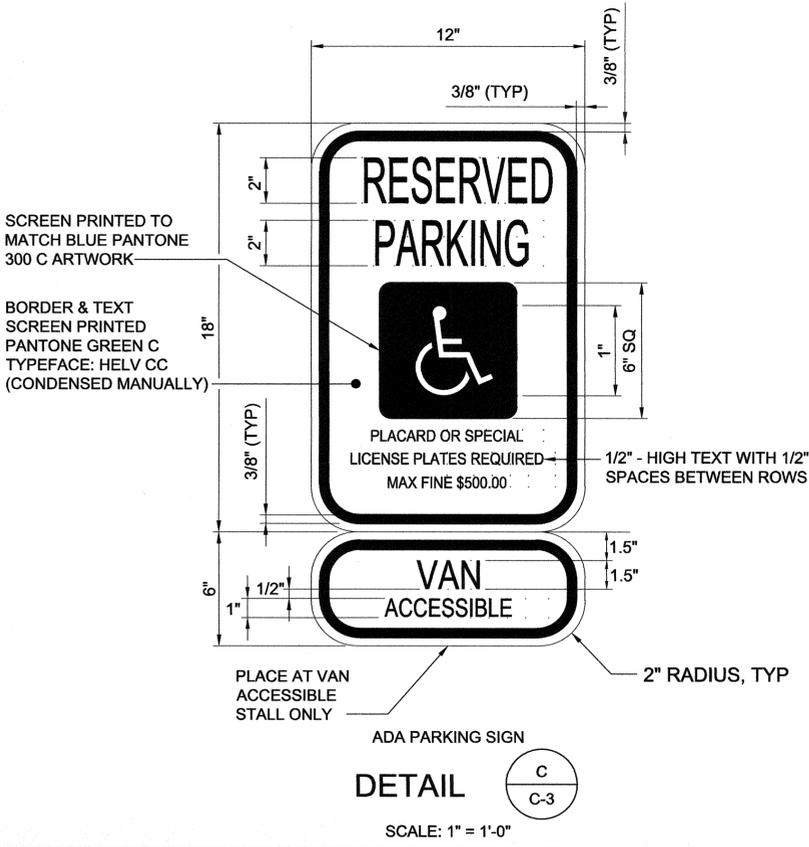
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION KAHAKAPOO RECREATIONAL AREA ADA IMPROVEMENTS CONSTRUCTION DETAILS 2					
		DESIGNED: AC DRAWN: RS CHECKED: MN APPROVED: <i>[Signature]</i> APRIL 30, 2016 EXPIRATION DATE OF THE LICENSE			
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.		SUBMITTED: MS DATE: MAY 2016 SCALE: AS SHOWN		DRAWING NO. C-7	
JOB NO. J00CM60A			SHEET NO. 10 OF 14 SHEETS		

P:\PROJECTS\HAWAII, STATE OF (HI)\146834 ADA_KAHAKAPAO RECREATIONAL AREA_MAUJ_CADD\2-SHEETS\C-CIVIL\146834-SF-C-008_DETAILS3.DWG 5/5/2016 RSELLONA

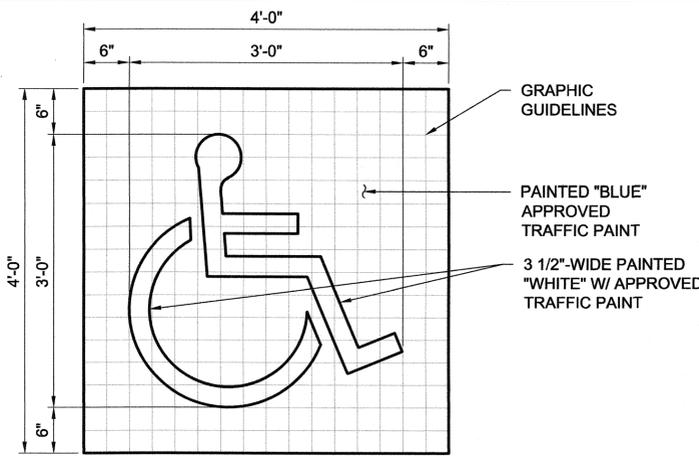


- NOTES:**
- ADA PARKING SIGN POSTS TO BE MOUNTED BEHIND RETAINING WALL. SEE DWG C-2 FOR PLAN.
 - THE BOTTOM EDGE OF THE LOWEST PARKING SIGN SHALL BE A MINIMUM OF 60" PROJECTED ABOVE THE FINISHED GRADE OF THE PARKING STALLS.

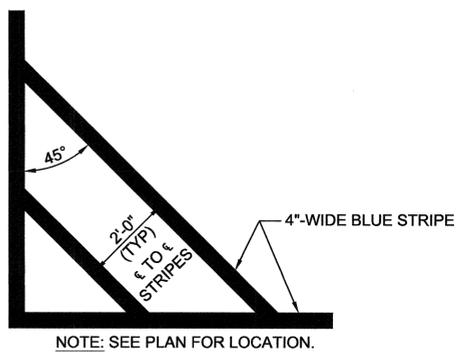
ADA PARKING SIGN POST
DETAIL A
C-3
SCALE: 1" = 1'-0"



ADA SYMBOL
DETAIL B
C-3
SCALE: 1" = 1'-0"



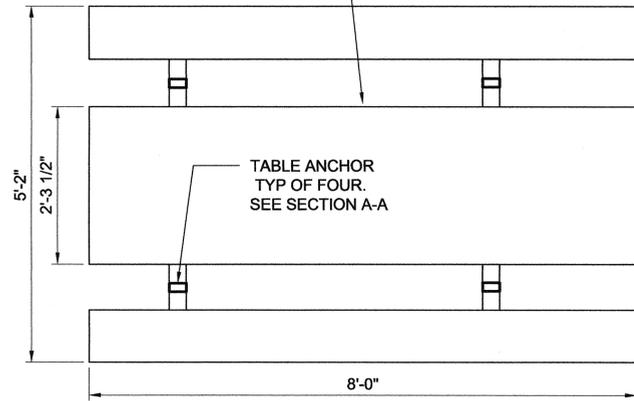
- NOTES:**
- SIGN DETAILS SHALL CONFORM TO THE LATEST EDITIONS OF UNITED STATES DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION (US FHWA) PUBLICATIONS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," "STANDARD ALPHABETS FOR HIGHWAY SIGNS," AND "STANDARD HIGHWAY SIGNS," ALL AS AMENDED.
 - SIGN SHALL BE HIGH-INTENSITY REFLECTIVE SHEETING UNLESS OTHERWISE SPECIFIED.
 - SIGN SHALL HAVE 3/8"-DIA BOLT HOLES DRILLED AT APPROXIMATE LOCATIONS.
 - THE INSIDE OF THE 2 1/4" ANCHOR POST MUST BE KEPT FREE OF SEDIMENT TO ASSURE EASY INSERTION OF THE 2" SIGN POST.
 - SIGNS SHALL BE ALUM T6061 SHEET COVERED W/ ENGINEERING GRADE REFLECTIVE SHEETING.
 - SIGN LETTERING SHALL BE UPPERCASE LETTERS OF THE TYPE APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
 - ELEMENTS (TEXT & GRAPHIC) REQUIRED ON SIGN MAY BE PLACED ON MORE THAN ONE SIGN. DIMENSIONS OF ELEMENTS ON SIGN ARE MINIMUM REQUIREMENTS.
 - INCLUDE VAN-ACCESSIBLE SIGN FOR VAN-ACCESSIBLE STALL ONLY.
 - SIGN(S) SHALL COMPLY WITH THE UNIFORM STANDARD PRESCRIBED BY THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (AS INCORPORATED BY REFERENCE IN 23 CFR PART 655, SUBPART F).
 - STRIPING FOR PARKING SPACE(S) RESERVED FOR PERSONS W/ DISABILITIES & ADJOINING ASSOCIATED ACCESS AISLE(S) SHALL BE COLOR BLUE; STRIPING OF ACCESS AISLES SHALL BE COLOR BLUE; STRIPING MUST BE CLEARLY VISIBLE.
 - PAINTING ENTIRE SURFACE OF PARKING SPACE(S) RESERVED FOR PERSONS W/ DISABILITIES CREATES A SLIPPERY SURFACE. THEREFORE, THE PRACTICE IS DISCOURAGED.
 - PARKING STALL AND ACCESS AISLE SLOPES SHALL NOT EXCEED 2% IN ANY DIRECTION.



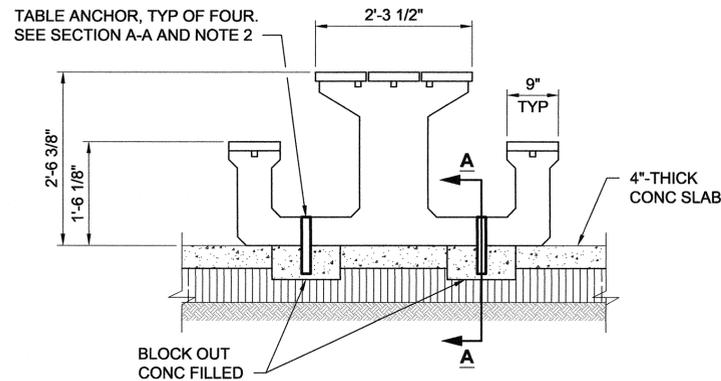
DIAGONAL STRIPING ACCESS AISLE
DETAIL D
C-3
SCALE: 1" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION KAHAKAPAO RECREATIONAL AREA ADA IMPROVEMENTS CONSTRUCTION DETAILS 3					
DESIGNED: AC		SUBMITTED: MS <i>gc</i>			
DRAWN: RS		DATE: MAY 2016			
CHECKED: MN		SCALE: AS SHOWN			
APPROVED: <i>Cy</i>		DRAWING NO. C-8			
APRIL 30, 2018		MAY 6 2016			
EXPIRATION DATE OF THE LICENSE		DATE			
MICHAEL S. NISHIMURA LICENSED PROFESSIONAL ENGINEER No. 10772-C HAWAII, U.S.A.		CHIEF ENGINEER			
JOB NO. J00CM60A			SHEET NO. 11 OF 14 SHEETS		

BELSON OUTDOORS MODEL P-28
 ADA COMPLIANT RECYCLED
 PLASTIC RECTANGULAR TABLE, OR
 APPROVED EQUAL

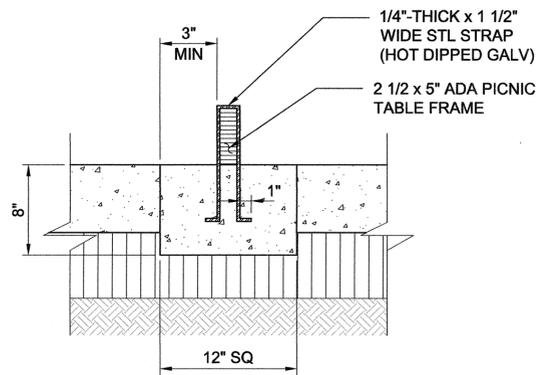


PLAN VIEW



NOTES:

1. PROVIDE THEFT-RESISTANT FASTENERS FOR ALL ACCESSORY MOUNTING.
2. PAINT EXPOSED ANCHOR SYSTEM TO MATCH PICNIC TABLE SUPPORTS. FIRST PRIME WITH TWO (2) MIN COATS EXTERIOR APPLICATION ANTI-CORROSION OIL-BASED METAL PRIMER THEN APPLY TWO (2) MIN TOP COATS OF ALKYD-BASED EXTERIOR FLAT PAINT IN COLOR DIRECTED BY ENGINEER.



SECTION A-A

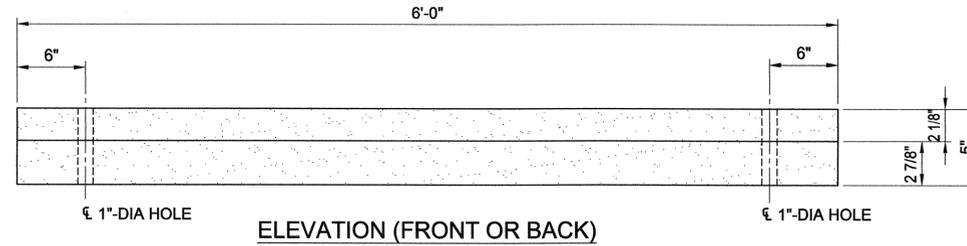
SCALE: 1-1/2" = 1'-0"

ADA PICNIC TABLE

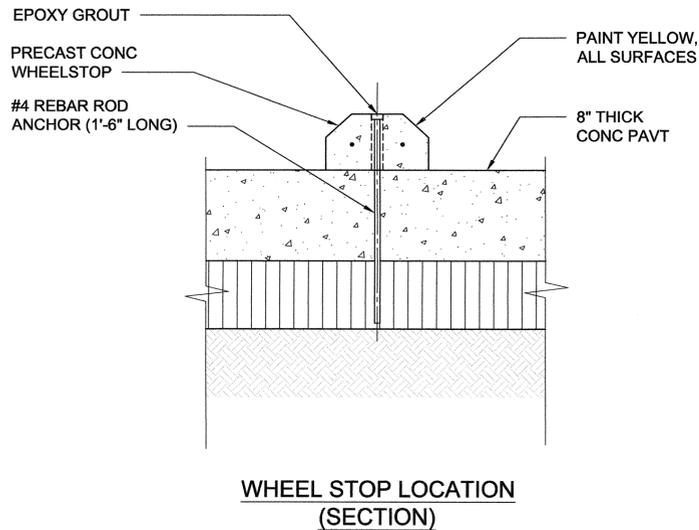
DETAIL



SCALE: 3/4" = 1'-0"



ELEVATION (FRONT OR BACK)



WHEEL STOP LOCATION
 (SECTION)

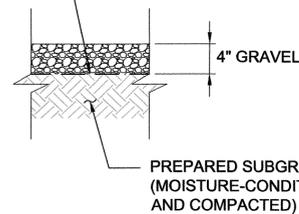
PRE-CAST CONCRETE WHEEL STOP

DETAIL



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

GEOTEXTILE FABRIC,
 MIRAFI 140N OR
 APPROVED EQUAL

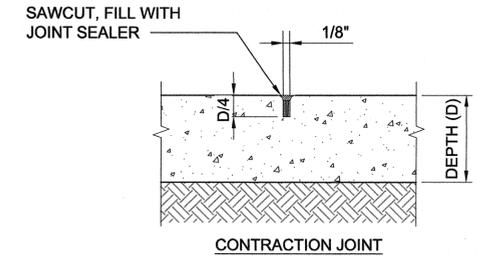


GRAVELLED SURFACE

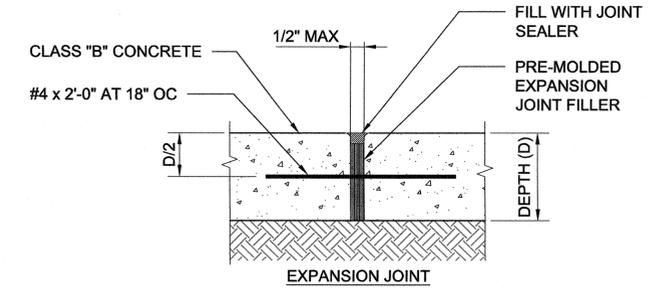
DETAIL



SCALE: 3/4" = 1'-0"



CONTRACTION JOINT



CONCRETE WALKWAY JOINT

DETAIL



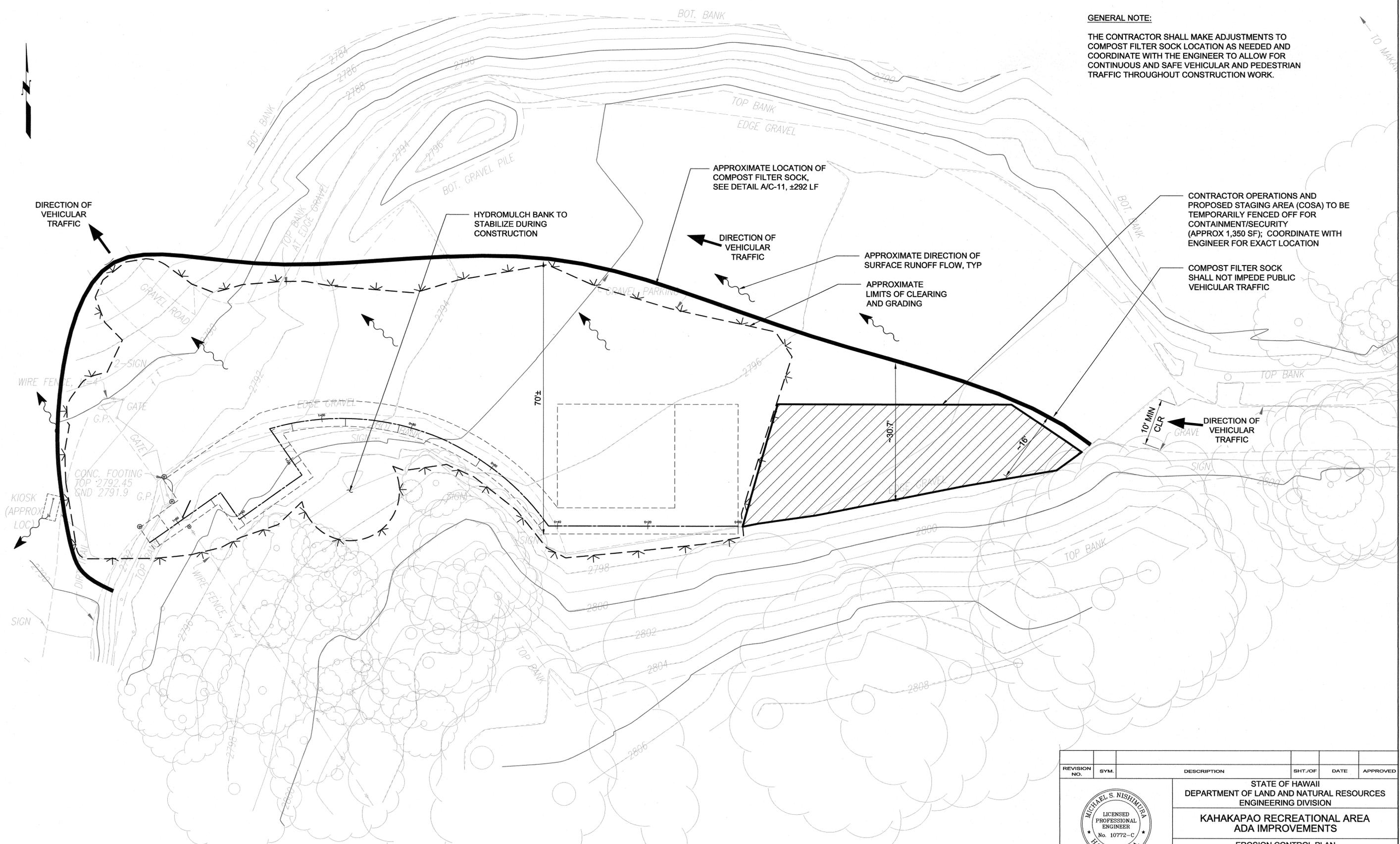
SCALE: 1' = 1'-0"

P:\PROJECTS\HAWAII, STATE OF (HI)\146834 ADA_KAHAKAPOA RECREATIONAL AREA_MAUJI_CADD\2-SHEETS\CIVIL\146834-SF-C-009_DETAILS4.DWG 5/5/2016 RSELLONA

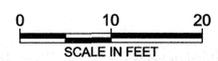
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION KAHAKAPOA RECREATIONAL AREA ADA IMPROVEMENTS CONSTRUCTION DETAILS 4					
		DESIGNED: AC DRAWN: RS CHECKED: MN APPROVED: <i>[Signature]</i> APRIL 30, 2018 EXPIRATION DATE OF THE LICENSE			
		SUBMITTED: MS <i>[Signature]</i> DATE: MAY 2016 SCALE: AS SHOWN		DRAWING NO. C-9	
JOB NO. J00CM60A SHEET NO. 12 OF 14 SHEETS					

P:\PROJECTS\HAWAII, STATE OF (H)\146834_ADA_KAHAKAPAO RECREATIONAL AREA_MAUJ_CADD2-SHEETSC-CIVIL\146834-SF-C-010_EROSION.DWG 5/6/2016 RSELLONA

GENERAL NOTE:
 THE CONTRACTOR SHALL MAKE ADJUSTMENTS TO COMPOST FILTER SOCK LOCATION AS NEEDED AND COORDINATE WITH THE ENGINEER TO ALLOW FOR CONTINUOUS AND SAFE VEHICULAR AND PEDESTRIAN TRAFFIC THROUGHOUT CONSTRUCTION WORK.

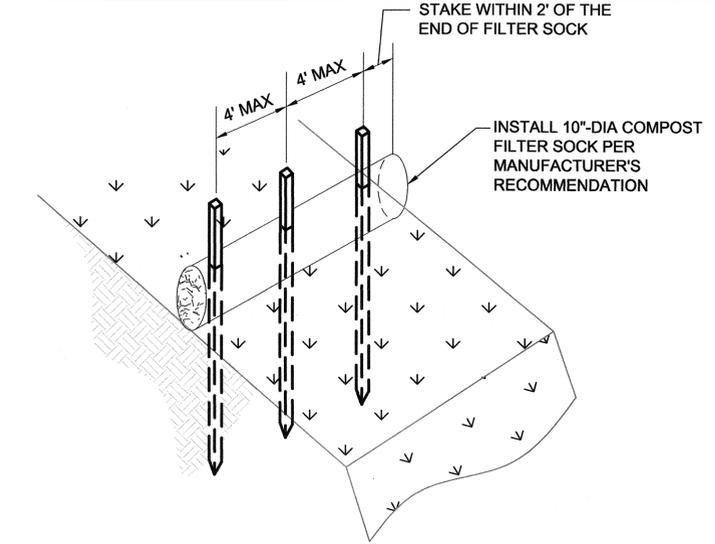
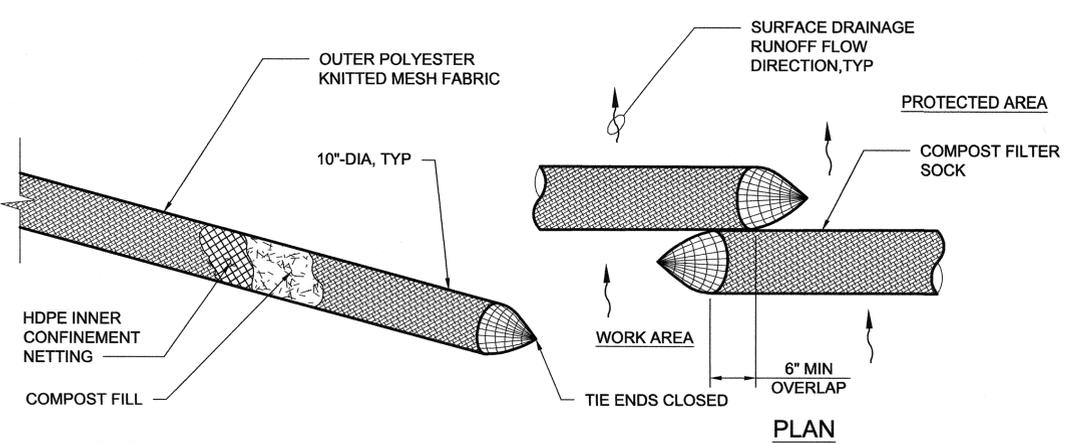


EROSION CONTROL PLAN
 SCALE: 1" = 10'



REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION KAHAKAPAO RECREATIONAL AREA ADA IMPROVEMENTS EROSION CONTROL PLAN					
DESIGNED: AC		SUBMITTED: MS			
DRAWN: RS		DATE: MAY 2016			
CHECKED: MN		SCALE: 1" = 10'			
APPROVED:		DRAWING NO.			
APRIL 30, 2018 EXPIRATION DATE OF THE LICENSE		 CHIEF ENGINEER		MAY 6, 2016 DATE	
JOB NO. J00CM60A			SHEET NO. 13 OF 14 SHEETS		

P:\PROJECTS\HAWAII STATE OF (H)\146834 ADA_KAHAKAPOA RECREATIONAL AREA MAUII_CADD\2-SHEETS\C-CIVIL\146834-SF-C-011_EROSION_DTL.S.DWG 5/5/2016 RSELLONA

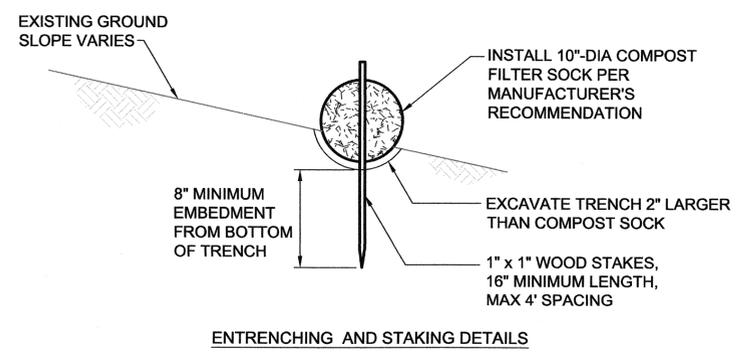


NOTES:

- 10"-DIA COMPOST FILTER SOCKS SHALL BE SILTSOXX BY FILTERXX, BIOSOCK BY ENVIROTECH BIOSOLUTIONS, OR APPROVED EQUAL.
- THE COMPOST FILTER SOCK SHALL BE INSPECTED AT LEAST ONCE PER WEEK AND AFTER EACH RAINFALL EVENT. MAKE REPAIRS AS NEEDED, OR AS DIRECTED BY THE ENGINEER.
- IF THE COMPOST FILTER SOCK BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE COMPOST FILTER SOCK SHALL BE REMOVED, CLEANED AND REPLACED.
- DISPOSE OF SILT, SEDIMENT AND DEBRIS AFTER EACH EVENT, WHEN SEDIMENT ACCUMULATION REACHES THREE-QUARTERS OF THE BARRIER HEIGHT, OR AS DIRECTED BY THE ENGINEER.

STAKE REQUIRED	
SOCK LENGTH (FT)	STAKES REQUIRED FOR EACH SOCK
25	8
20	6
12	4

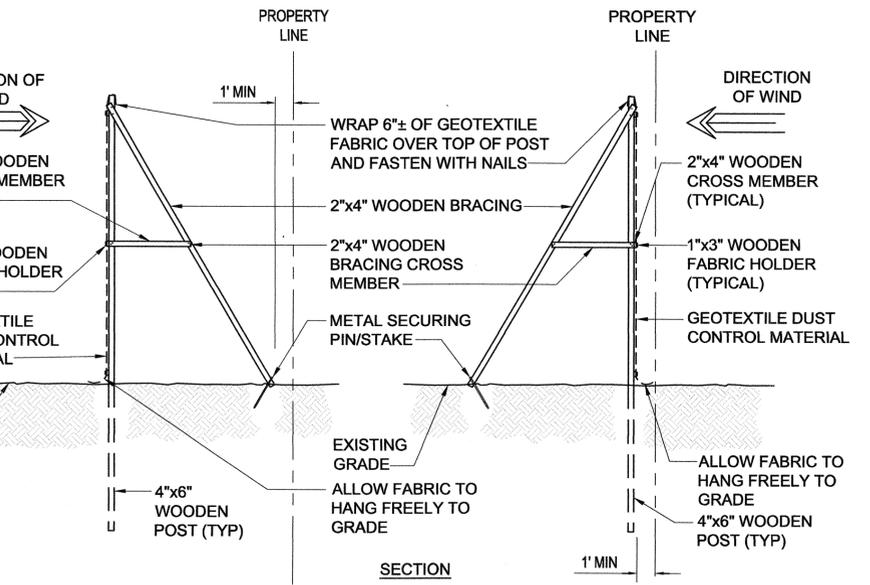
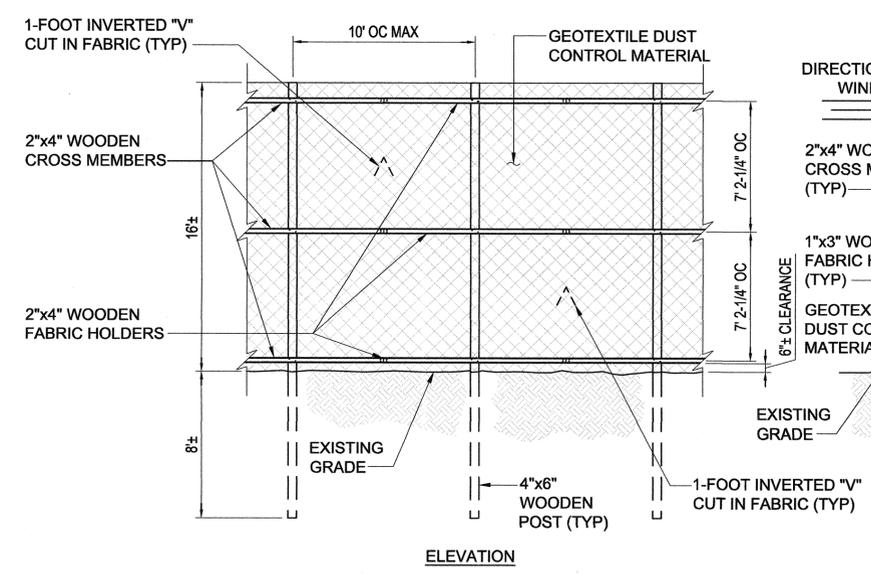
COMPOST FILTER SOCK
DETAIL
NOT TO SCALE



ENTRENCHING AND STAKING DETAILS

EROSION CONTROL NOTES AND BMP REQUIREMENTS

- THE CONTRACTOR SHALL TRAIN HIS/HER EMPLOYEES AND SUBCONTRACTORS ON THE SOIL EROSION AND SEDIMENT CONTROL BMPs.
- A SPECIFIC INDIVIDUAL APPOINTED BY THE CONTRACTOR SHALL BE DESIGNATED TO BE RESPONSIBLE FOR SOIL EROSION AND SEDIMENT CONTROL BMPs ON THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE PERSONS RESPONSIBLE FOR THE INSPECTION, MAINTENANCE AND REPAIR OF THE SOIL EROSION AND SEDIMENT CONTROL BMPs.
- AN INSPECTION AND MAINTENANCE REPORT SHALL BE GENERATED FOR EACH INVESTIGATION, AND THE REPORTS KEPT ON FILE.
- WHERE APPLICABLE AND FEASIBLE, THE BMPs TO CONTROL SOIL EROSION AND SEDIMENT AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY CONSTRUCTION ACTIVITIES ARE INITIATED AND SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
- BMPs SHALL BE EMPLOYED AT ALL TIMES TO THE MAXIMUM EXTENT PRACTICABLE TO PREVENT DAMAGE BY SEDIMENTATION TO STREAMS, WATERCOURSES, NATURAL AREAS AND THE PROPERTY OF OTHERS.
- THE CONTRACTOR SHALL PROVIDE ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL BMPs AS NEEDED WHERE CONTRACTOR TRAVELS OR WORKS BEYOND THE CONSTRUCTION LIMITS.
- IF HEAVY RAINS ARE PROJECTED DURING A WORKDAY, ALL SOIL EROSION AND SEDIMENT CONTROL BMPs THAT ARE A PART OF THIS PROJECT SHALL BE INSPECTED IMMEDIATELY AND REINFORCED AS NECESSARY.
- ALL SOIL EROSION AND SEDIMENT CONTROL BMPs SHALL BE CHECKED AND REPAIRED AS NECESSARY; FOR EXAMPLE, WEEKLY IN DRY PERIODS AND WITHIN TWENTY-FOUR HOURS AFTER ALL RAINFALL OF 0.5 INCHES OR GREATER WITHIN A 24-HOUR PERIOD. DURING PROLONGED RAINFALL, DAILY CHECKING IS NECESSARY. THE CONTRACTOR SHALL MAINTAIN RECORDS OF CHECKS AND REPAIRS.
- AS NEEDED, USE ROLL-OFF DUMPSTERS AS A TEMPORARY CONTAINER FOR DISPOSAL OF CONSTRUCTION WASTES AND DEMOLITION WASTES. DUMPSTERS SHALL BE LEAK-PROOF AND SHALL NOT BE OVERFILLED TO THE LEVEL WHERE THEIR COVERS CANNOT BE FULLY SHUT.
- DISPOSAL AREAS SHALL NOT BE CLOSE TO THE DIRECTION OF STORM WATER RUNOFF INTO ANY RECEIVING STATE WATER.
- GOOD HOUSEKEEPING SHALL BE UTILIZED TO ENSURE PROTECTION OF PEDESTRIAN AND VEHICULAR ACCESSWAYS FROM MUD, DIRT AND DEBRIS.
- THE CONTRACTOR SHALL ENSURE THAT ALL TIRES OF CONSTRUCTION VEHICLES ARE SUFFICIENTLY CLEANED SO THAT DIRT OR DEBRIS IS NOT TRACKED OFF THE CONSTRUCTION SITE. WASHING OFF TIRES WITH WATER WILL NOT BE ACCEPTABLE UNLESS THE RUNOFF IS CONTAINED.
- THE CONTRACTOR SHALL INSTALL DUST SCREEN AS PER DET B ON THIS SHEET AROUND THE PERIMETER OF PROJECT WORK AND ADJUST ITS HEIGHT ACCORDINGLY AS NEEDED TO AVOID DUST NUISANCE TO ADJACENT AND NEARBY PROPERTIES. THE CONTRACTOR SHALL CHECK AND MAINTAIN THE SCREEN REGULARLY THROUGHOUT PROJECT CONSTRUCTION AND REPAIR/REPLACE ANY DAMAGED SECTIONS AS NEEDED. AT THE END OF THE PROJECT, THE CONTRACTOR SHALL REMOVE THE SCREEN IN ITS ENTIRETY AND RETURN THE AFFECTED AREA TO ITS ORIGINAL CONDITION, OR BETTER.



DUST CONTROL SCREEN
DETAIL
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION KAHAKAPOA RECREATIONAL AREA ADA IMPROVEMENTS EROSION CONTROL NOTES AND DETAILS					
DESIGNED: AC		SUBMITTED: MS		DATE: MAY 2016	
DRAWN: RS		CHECKED: MN		SCALE: AS SHOWN	
APPROVED: <i>[Signature]</i>		APRIL 30, 2018		DRAWING NO. C-11	
EXPIRATION DATE OF THE LICENSE		MAY 6, 2016		DATE	

JOB NO. J00CM60A SHEET NO. 14 OF 14 SHEETS