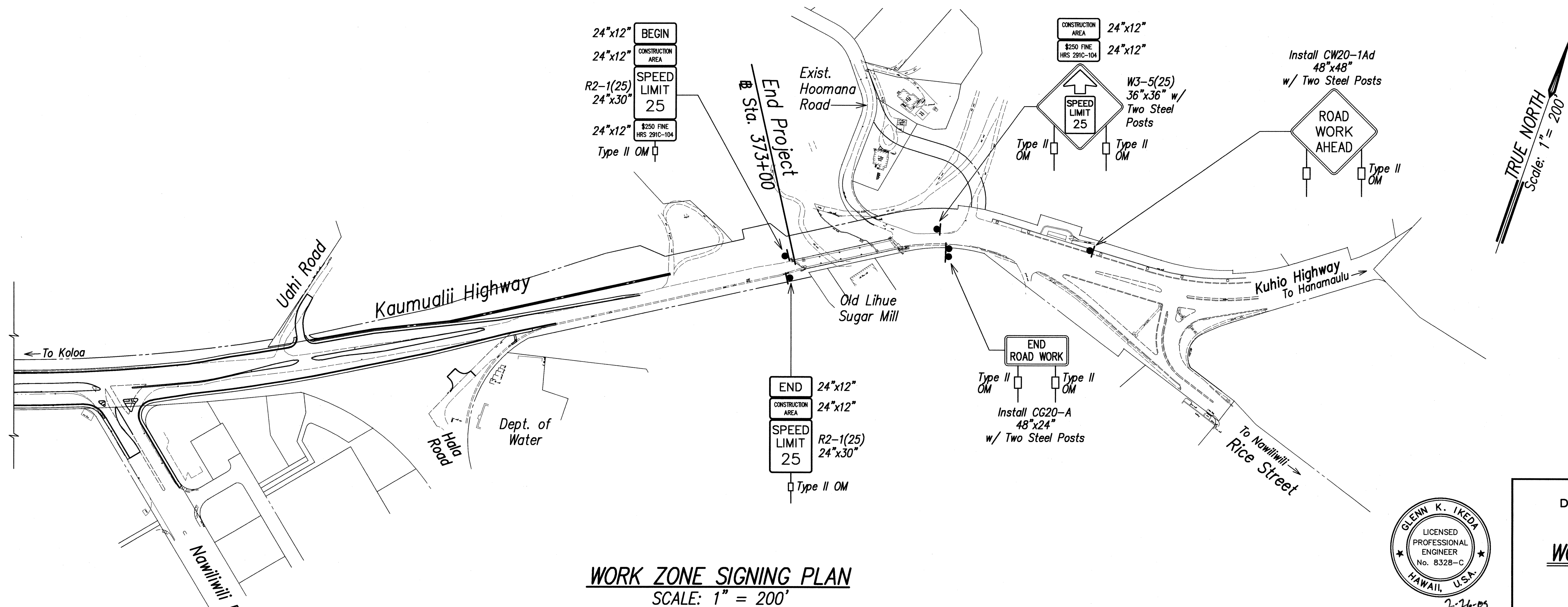
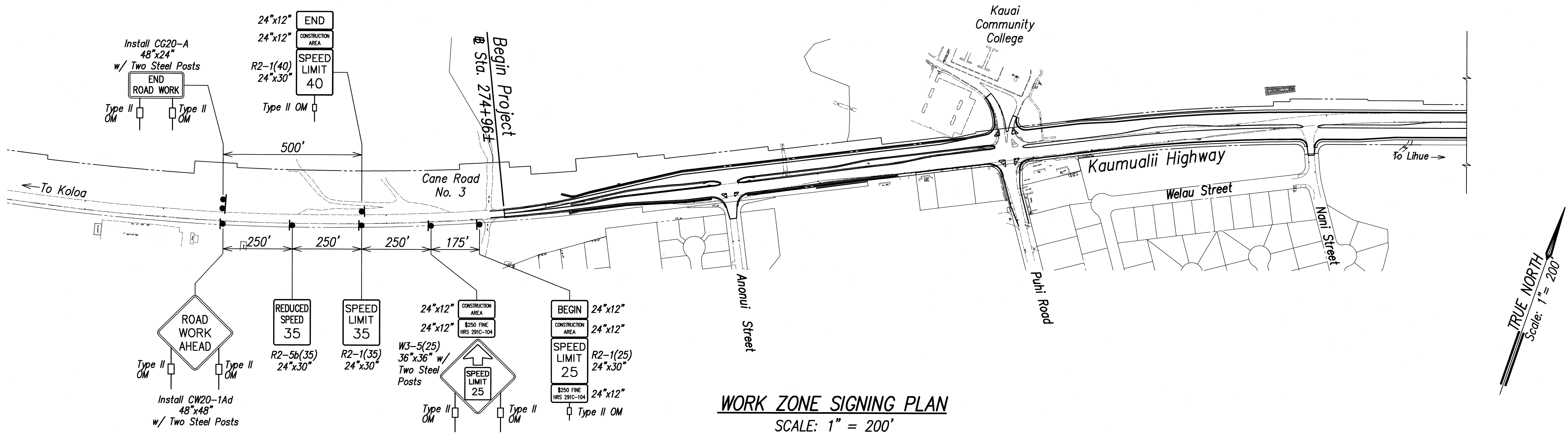


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	273	452



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QUANTITIES BY	
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ORIGINAL PLAN	NOTE BOOK
No.	

LIBRARY STATE DOT KAUAI - 1 PHASE 1A REVISIONS: 1/15/08



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 Park Engineering
 LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WORK ZONE SIGNING PLAN

Kaumualii Highway Widening
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

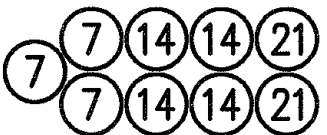
Scale: 1" = 200' Date: FEB. 2009

SHEET No. CP1 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	ADD.275	452

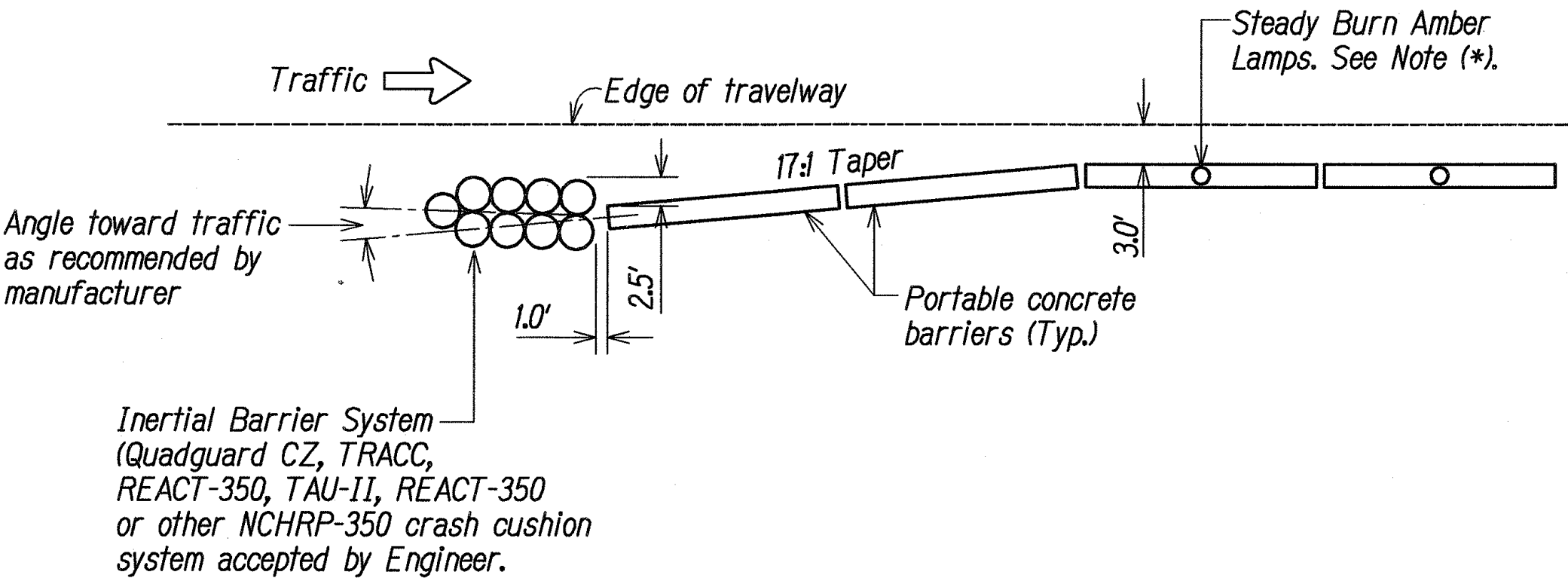
CONSTRUCTION PHASING NOTES:

1. In general, it is intended that the work proceed according to the phase sequence order indicated in the Construction Phasing and Detour Plans, i.e. Phase 1, then to Phase 2, then to Phase 3, ... to completion.
2. Depending on the scope of work required for each phase, the work shall start and continue without interruption, until all the work in the phase is completed or substantially completed.
3. Depending on the scope of work required for each phase, portions of work in adjacent construction phases might need to be done to enable the work in the current phase to be finished (e.g. construction of temporary or permanent facilities prior to demolition of existing facilities, allowing for settlement waiting period prior to work on embankments, etc.) If such work in adjacent phases ("out of sequence work") is needed to facilitate or expedite work, it will be allowed by the Engineer, but only after the Engineer accepts the Contractor's Traffic Control Plan (TCP) covering such "out of sequence work". See Section 645.03 of the H.S.S. for TCP requirements.
4. The Contractor shall notify the Engineer prior to beginning work in any phase and get authorization from the Engineer to begin the work in each phase.
5. Install Type II barricades with steady burn amber lamps as shown in the MUTCD.
6. Work at some locations throughout the project area (e.g. at intersections, at interface of adjacent phases, at median areas, etc.) may not be shown as being included in any one specific construction phase. Such "non-phased" work shall be considered as being included in either 1) any of the phases adjacent to the "non-phased" work; 2) as a separate phase of work to be completed between adjacent phases of work; or 3) as a separate phase of work to be completed at sometime during the course of the project, whichever is most convenient for the contractor and accepted by the Engineer.
7. The contractor shall consider "non-phased" work (as described in Note 7, above) in completion of his work. Such "non-phased" work is subject to the same TCP and submittal requirements and Engineer acceptance as other phases of work. The cost of traffic control for "non-phased" work shall be included in the cost for Item No. 645.1000 - Traffic Control.
8. The Contractor may modify the Construction Phasing and Detour Plans by submitting in writing, to the Engineer for his review and acceptance, an alternate Construction and Phasing Plan. Any contractor initiated alternate Construction Phasing and Detour Plan shall include all pertinent information in accordance with Section 645 of the H.S.S. Any contractor initiated alternate Construction Phasing and Detour Plan shall be done at no increase in contract time or contract price.



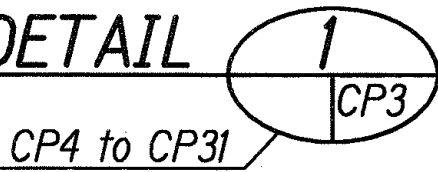
Number indicates module weight in hundreds of pounds.

INTERTIAL BARRIER SIZES



TYPICAL PCB END TREATMENT DETAIL

Not to Scale



CP4 to CP31

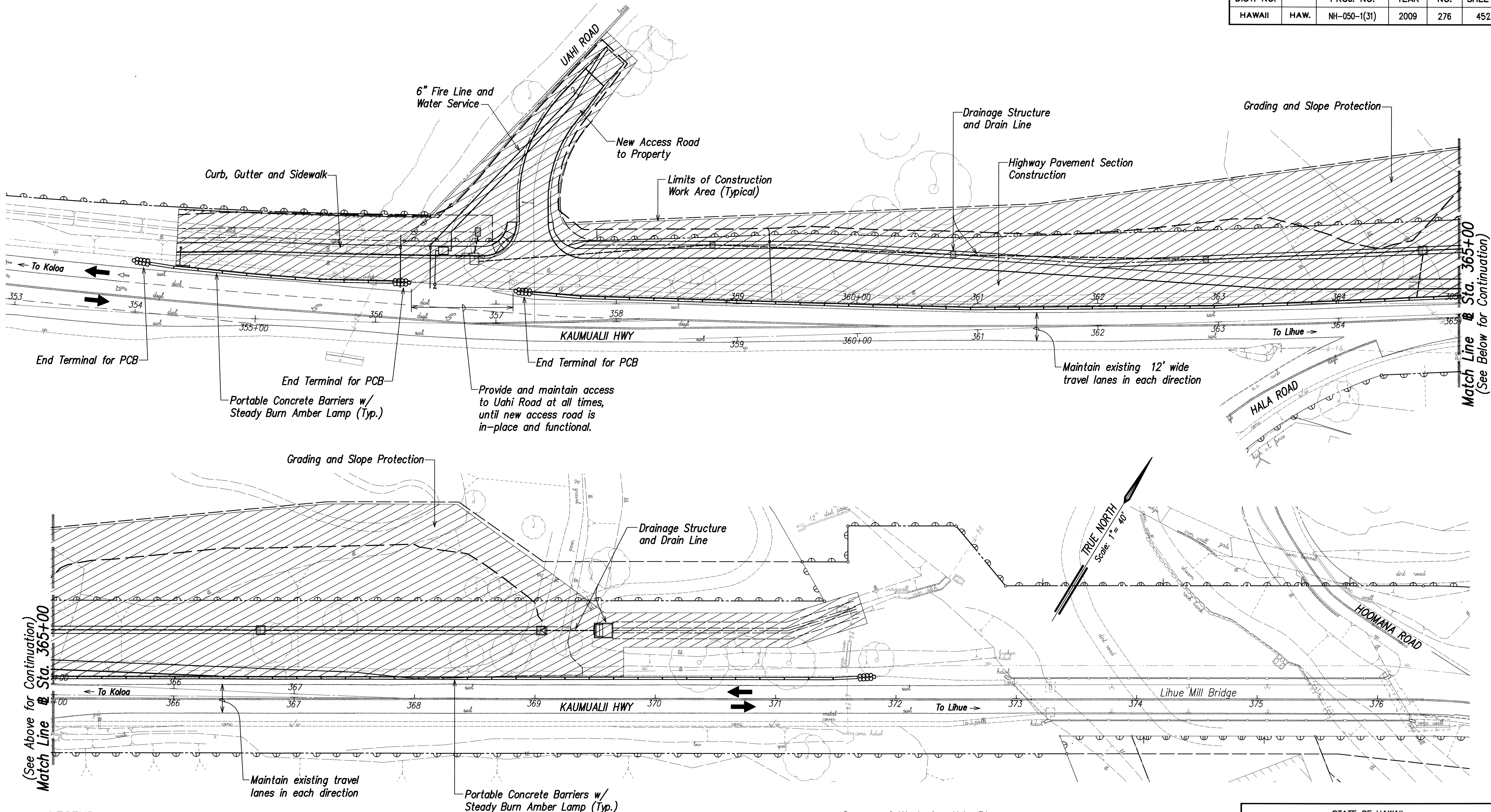
7/17/09	Revised Notes 1 and 3. Added notes 6 to 9.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PHASING NOTES AND DETAILS	
KAUMUALII HIGHWAY WIDENING Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge FEDERAL-AID PROJECT NO. NH-050-1(31)	
Scale: As Noted	Date: JULY 2009
SHEET No. CP3 OF CP32 SHEETS	

ORIGINAL PLAN	DATE
QUANTITY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
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CHECKED BY	
NO.	

LIB2: STATE DOT KAUMUALII-1 PHASE 1 REVISION PLANS, ADD075, LPOD-DET2.dwg 7/21/09



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	276	452

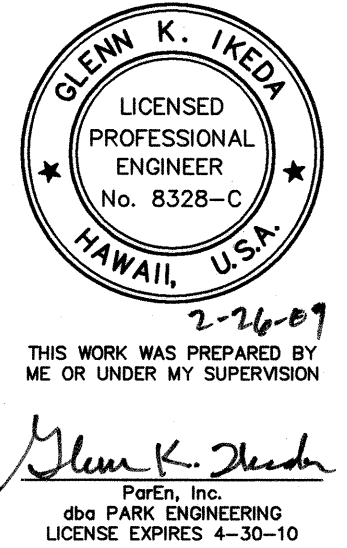


(See Above for Continuation)
Match Line @ Sta. 365+00

- LEGEND:**
- Construction Sign
 - Portable Concrete Barrier
 - Type III Barricade w/ Steady Burn Amber Lamps (8-foot long unless otherwise noted)
 - Work Area
 - Travel Lane

CONSTRUCTION - PHASE 1
SCALE: 1" = 40'

- Scope of Work for this Phase:**
1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
 2. Construct highway pavement section.
 3. Relocate 6" Fire Line and water service lateral.
 4. Construct concrete curb, gutter and sidewalk.
 5. Construct and install highway drainage system.
 6. Grading and slope protection.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 1**

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

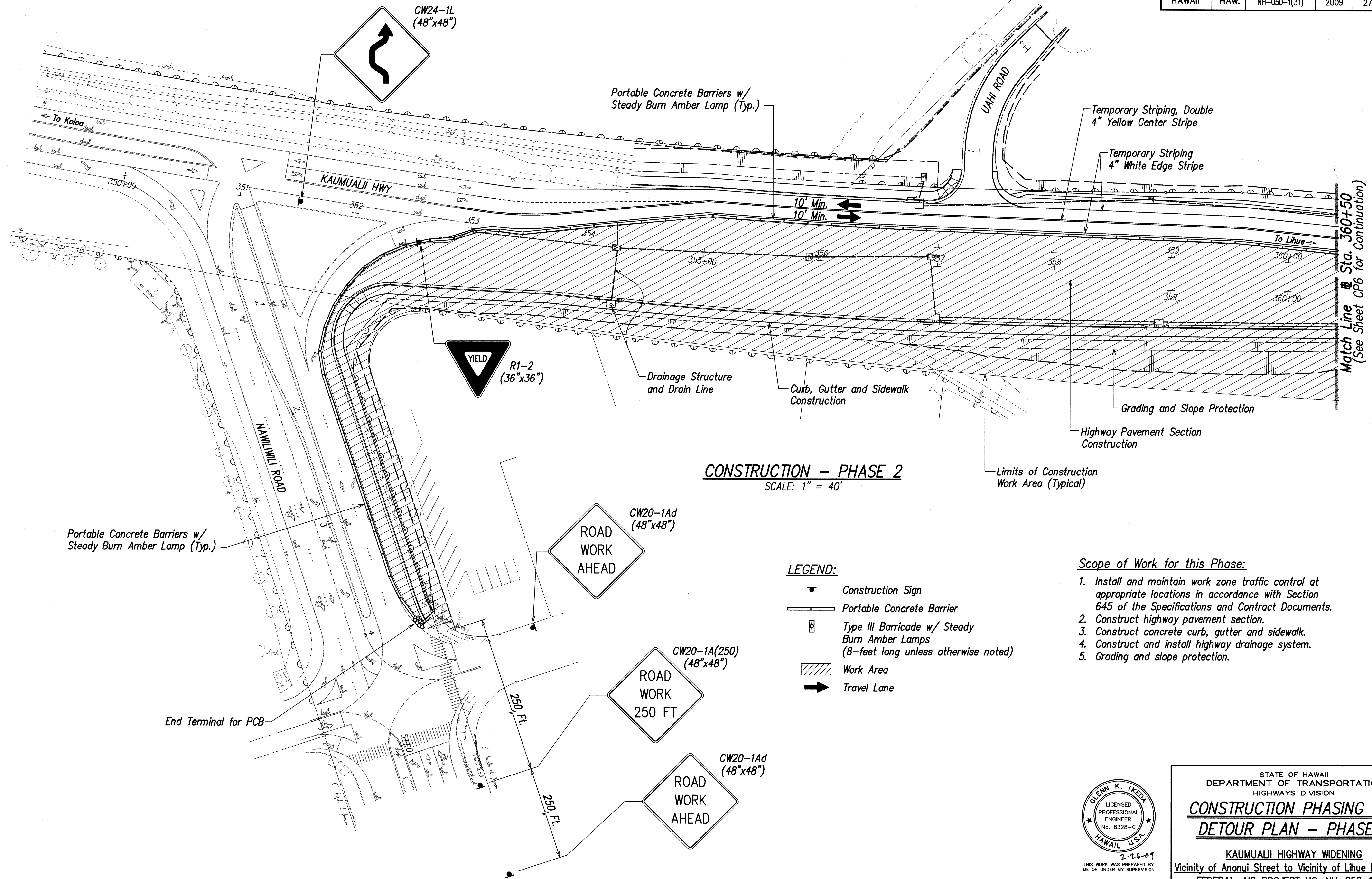
Scale: 1" = 40' Date: FEB. 2009

SHEET No. CP4 OF CP32 SHEETS

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ORIGINAL PLAN	
NOTE BOOK	
No.	

LIBRARY STATE OF HAWAII - PHASE 1, REVISIONS AND NOTES - CP4-1.dwg, 2/10/09

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	277	452



CONSTRUCTION - PHASE 2
SCALE: 1" = 40'

LEGEND:

- Construction Sign
- Portable Concrete Barrier
- Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
- Work Area
- Travel Lane

Scope of Work for this Phase:

1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
2. Construct highway pavement section.
3. Construct concrete curb, gutter and sidewalk.
4. Construct and install highway drainage system.
5. Grading and slope protection.



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Glenn K. Ikeda
Park Engineering, Inc.
License Expires 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 2**

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 40' Date: FEB. 2009

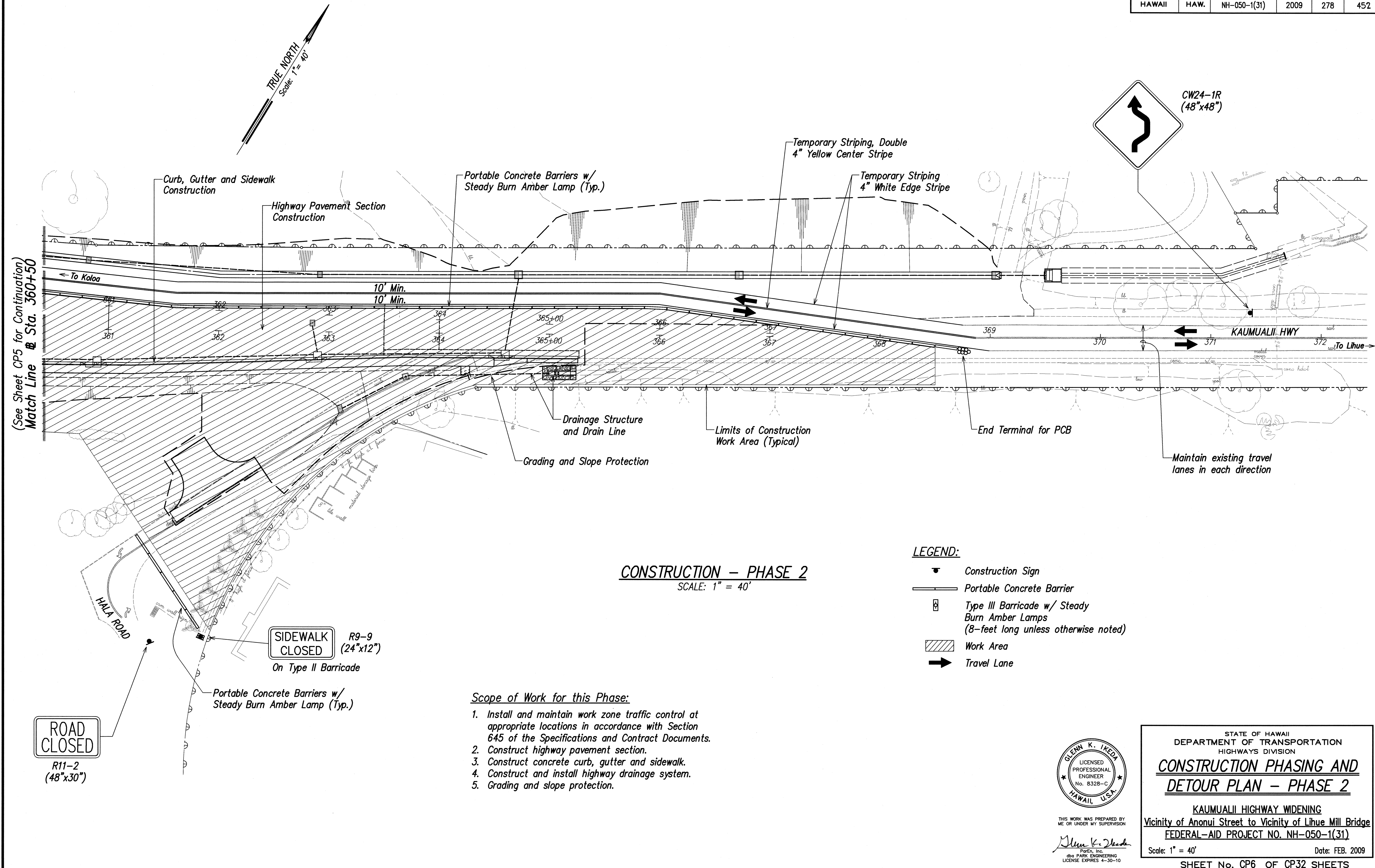
SHEET No. CP5 OF CP32 SHEETS

SURVEY PLOTTED BY	DATE
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DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	NO.
NOTE BOOK	
CHECKED BY	

LIB2: STATE DOT\KAUMUALII\PHASE 2\CONSTRUCTION\PHASE 2\CP5.dwg 2/10/09

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	278	452



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

LIBRARY STATE OF HAWAII - PHASE 2, REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



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STATE OF HAWAII
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HIGHWAYS DIVISION

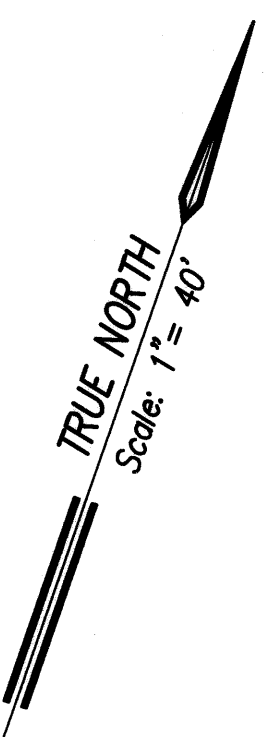
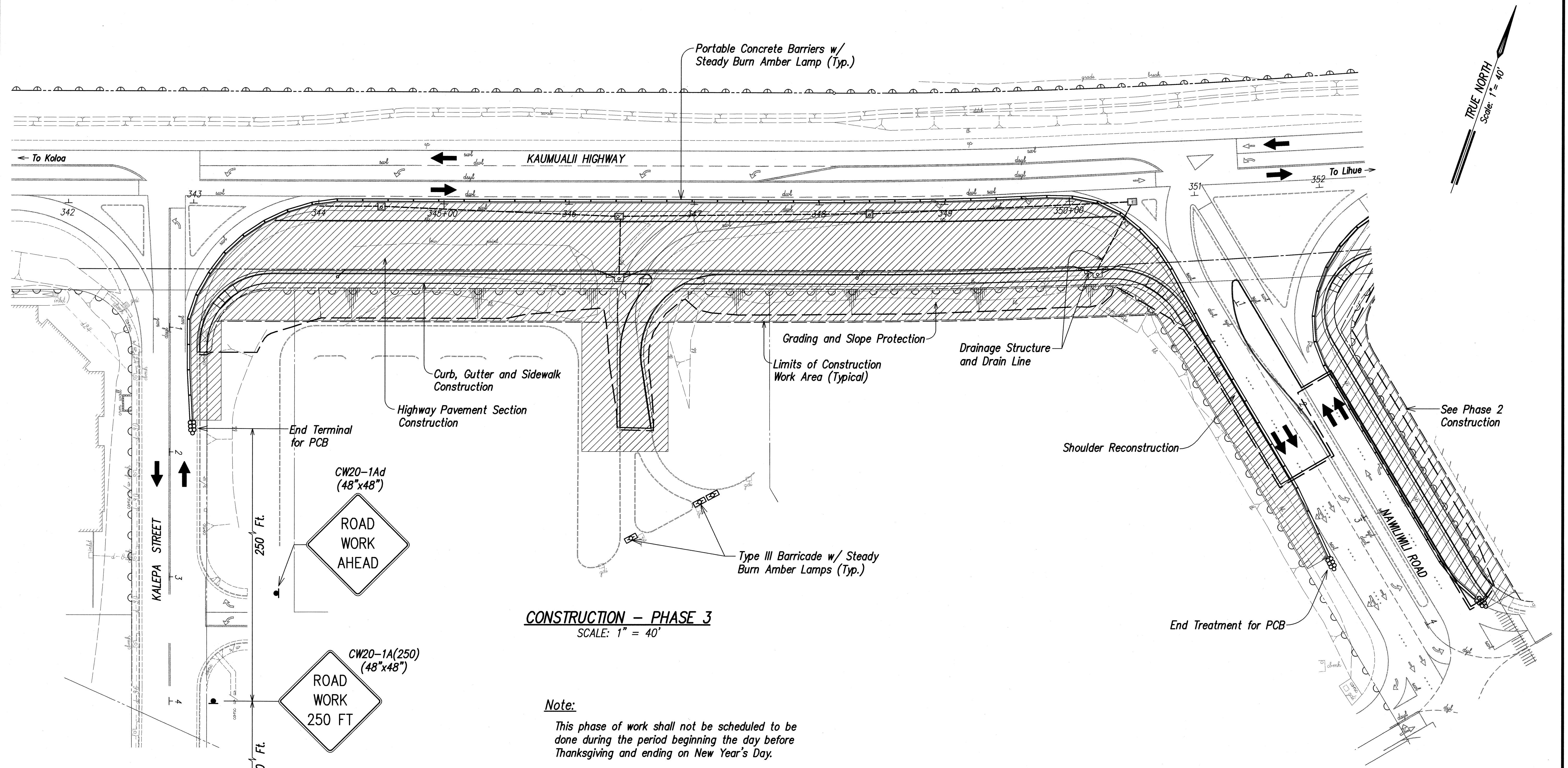
**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 2**

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 40' Date: FEB. 2009

SHEET No. CP6 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	279	452



CONSTRUCTION - PHASE 3
SCALE: 1" = 40'

Note:
This phase of work shall not be scheduled to be done during the period beginning the day before Thanksgiving and ending on New Year's Day.

- Scope of Work for this Phase:**
1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
 2. Construct highway pavement section.
 3. Construct concrete curb, gutter and sidewalk.
 4. Construct and install highway drainage system.
 5. Grading and slope protection.
 6. Shoulder reconstruction along Nawiliwili Road.

- LEGEND:**
- Construction Sign
 - Portable Concrete Barrier
 - Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
 - Work Area
 - Travel Lane

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

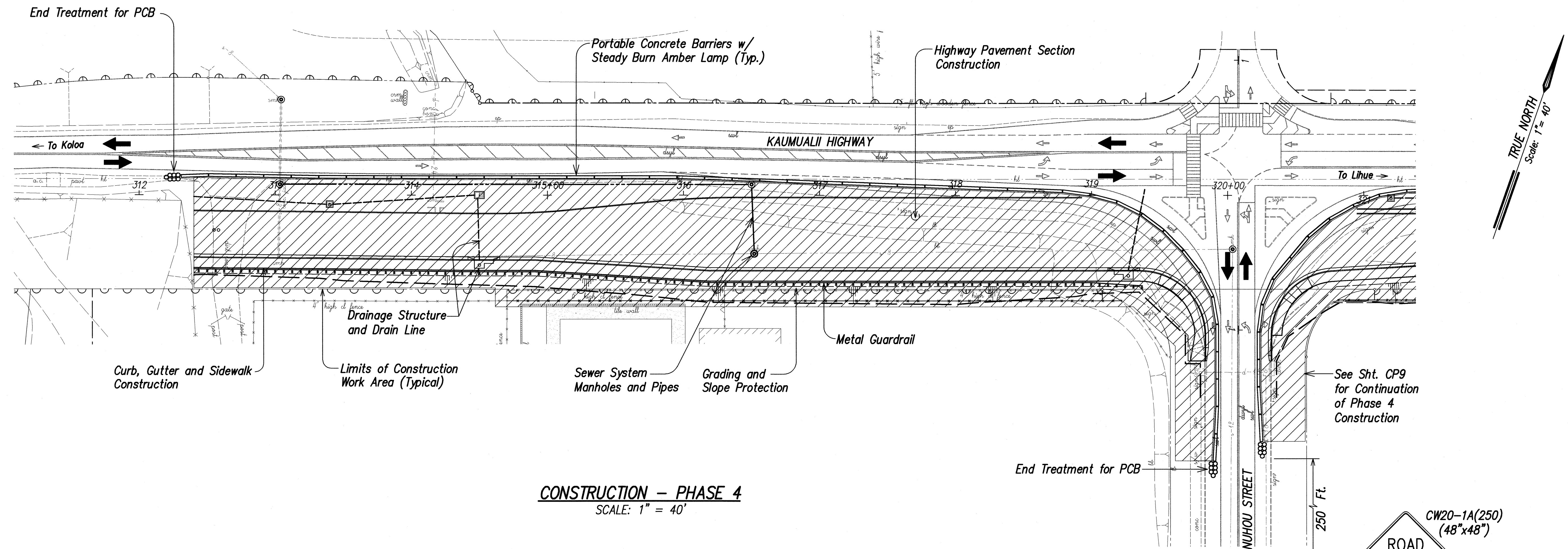
LIB2: STATE DOT\HAWAII-1\PHASE 3\CONSTRUCTION\ANSI\HW03-CP07-3.dwg 2/10/09



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LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 3**
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 40' Date: FEB. 2009
SHEET No. CP7 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	280	452



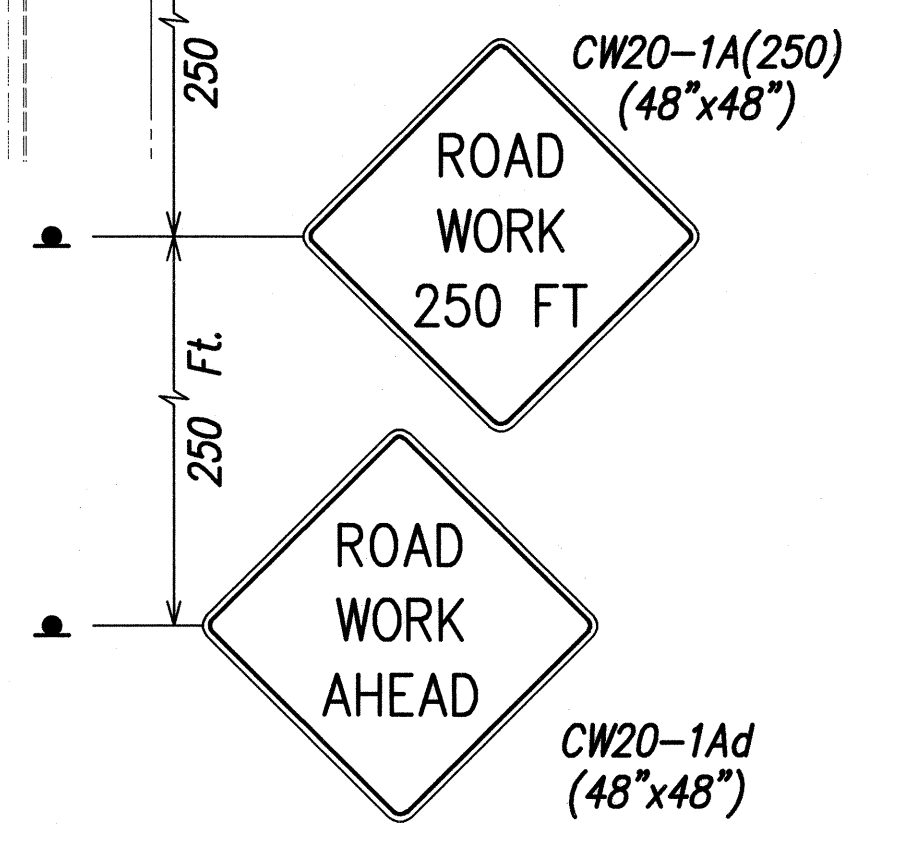
CONSTRUCTION - PHASE 4
SCALE: 1" = 40'

Scope of Work for this Phase:

1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
2. Construct highway pavement section.
3. Construct concrete curb, gutter and sidewalk.
4. Construct and install highway drainage system.
5. Grading and slope protection.
6. Install metal guardrail.
7. Install sewer system.

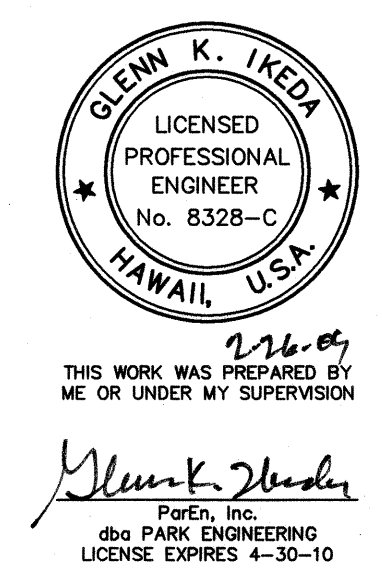
LEGEND:

- Construction Sign
- Portable Concrete Barrier
- Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
- Work Area
- Travel Lane



SURVEY PLOTTED BY	DATE
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QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

1B2: STATE DOT\HAWAII\1\PHASE4\REVISIONS\AW\KAWHOU-CP32-44.dwg 2/10/09



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

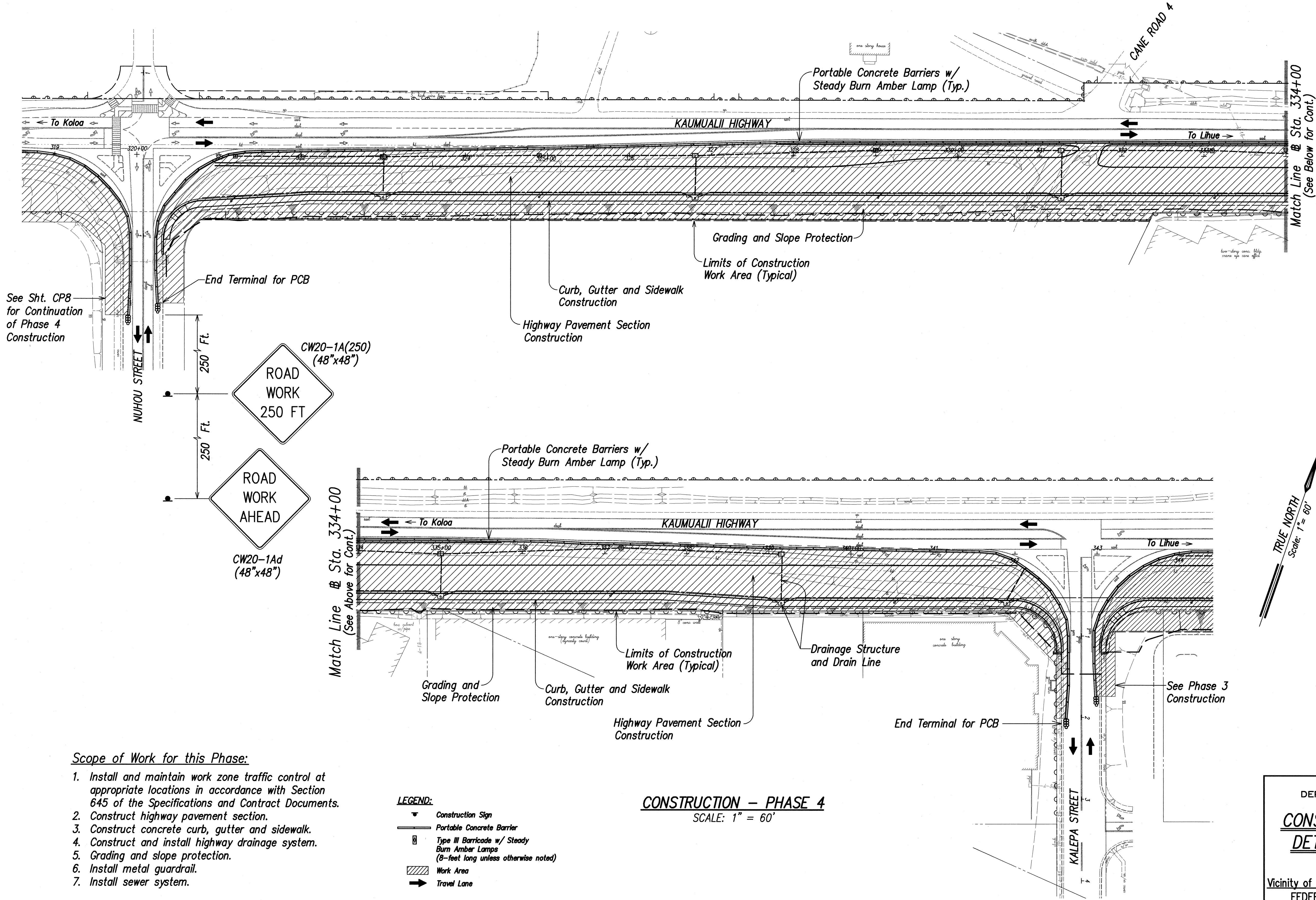
**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 4**

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 40' Date: FEB. 2009

SHEET No. CP8 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	281	452



- Scope of Work for this Phase:**
1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
 2. Construct highway pavement section.
 3. Construct concrete curb, gutter and sidewalk.
 4. Construct and install highway drainage system.
 5. Grading and slope protection.
 6. Install metal guardrail.
 7. Install sewer system.

- LEGEND:**
- Construction Sign
 - Portable Concrete Barrier
 - Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
 - Work Area
 - Travel Lane

CONSTRUCTION - PHASE 4
SCALE: 1" = 60'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 4**

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 60' Date: FEB. 2009

SHEET No. CP9 OF CP32 SHEETS

GLENN K. IKEDA
LICENSED PROFESSIONAL ENGINEER
No. 8328-C
HAWAII, U.S.A.

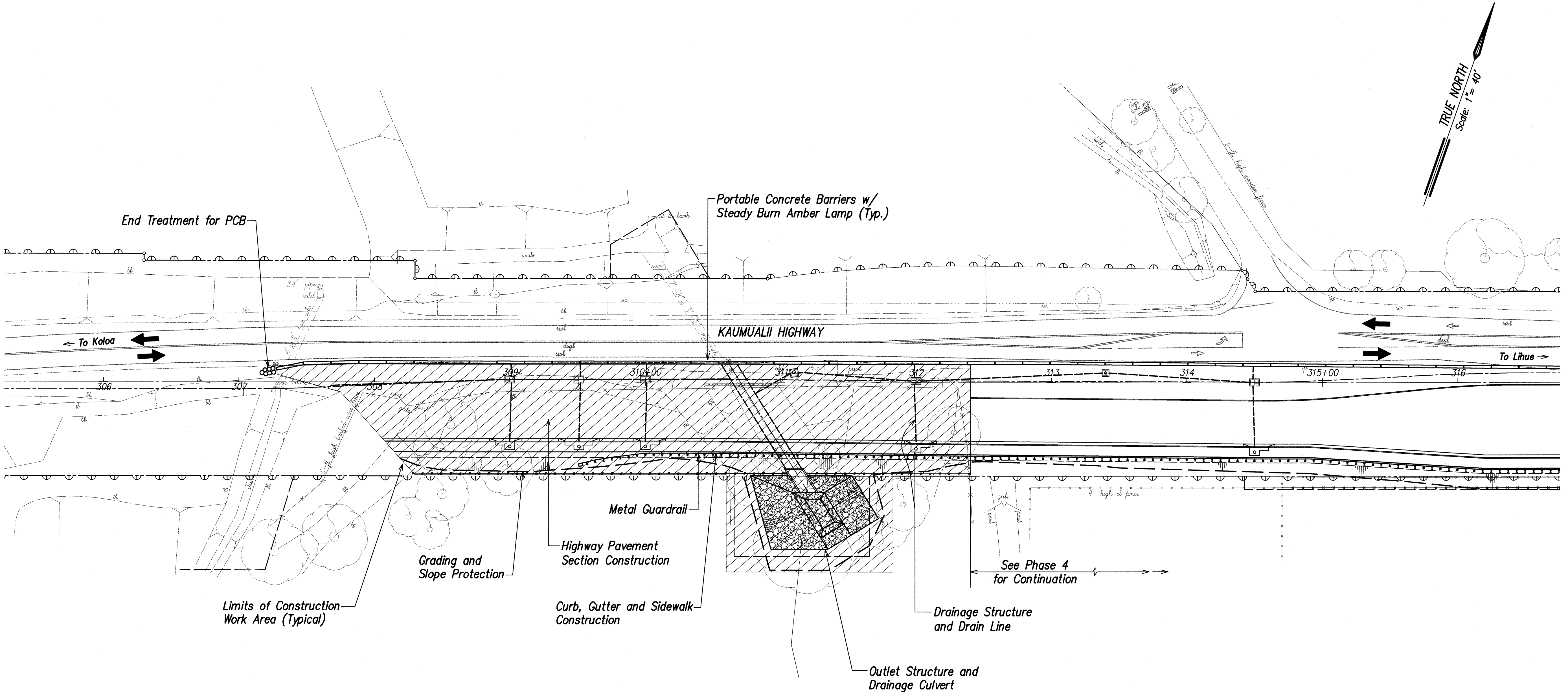
2-26-09
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ME OR UNDER MY SUPERVISION

Glenn K. Ikeda
ParkEn, Inc.
dba PARK ENGINEERING
LICENSE EXPIRES 4-30-10

SURVEY PLOTTED BY	DATE
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QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

LIB2: STATE DOT KAUMUALII - PHASE 4 - REGION 1 PLAN (KAWA) - CP09-4B.dwg, 2/10/09

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	282	452



CONSTRUCTION - PHASE 5A
SCALE: 1" = 40'

- Scope of Work for this Phase:
1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
 2. Construct highway pavement section.
 3. Construct concrete curb, gutter and sidewalk.
 4. Construct and install highway drainage system.
 5. Construct drainage outlet structure and drainage culvert crossing.
 6. Install metal guardrail.
 7. Grading and slope protection.

- LEGEND:
- Construction Sign
 - Portable Concrete Barrier
 - Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
 - Work Area
 - Travel Lane

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	NOTE BOOK
No.	No.

LIB2 STATE DOT/KAUMUALII-CP10-5A.dwg 2/10/09



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

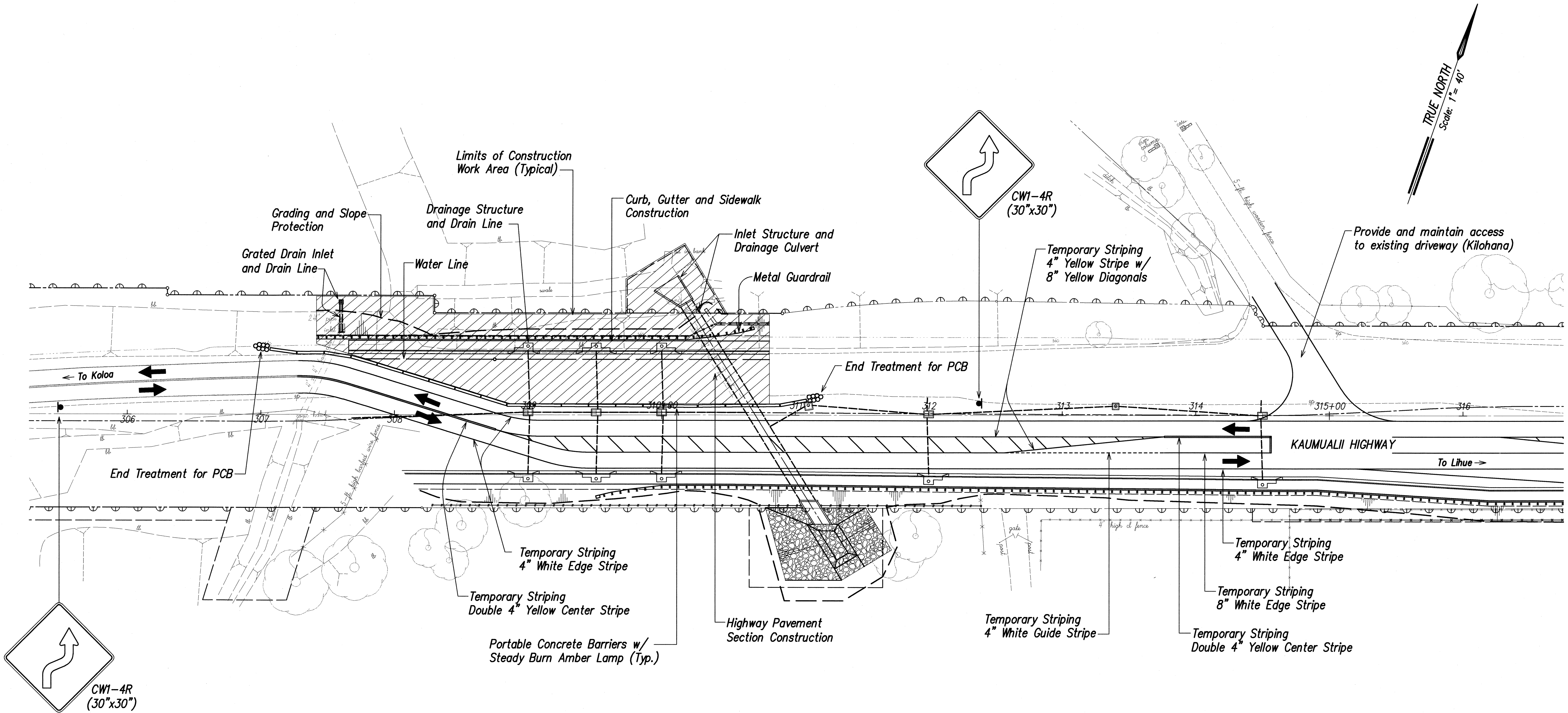
**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 5A**

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 40' Date: FEB. 2009

SHEET No. CP10 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	283	452



CONSTRUCTION - PHASE 5B
SCALE: 1" = 40'

- Scope of Work for this Phase:**
1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
 2. Construct highway pavement section.
 3. Construct concrete curb, gutter and sidewalk.
 4. Construct and install highway drainage system.
 5. Construct drainage inlet structure and drainage culvert crossing.
 6. Construct grated drain inlet and drain line.
 7. Install waterline and appurtenances.
 8. Install metal guardrail.
 9. Grading and slope protection.

- LEGEND:**
- Construction Sign
 - Portable Concrete Barrier
 - Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
 - Work Area
 - Travel Lane

SURVEY PLOTTED BY	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

LIB2: STATE DOT\HAWAII\PHASE 5B\CONSTRUCTION\Kilohana\CP11-5B.dwg 2/10/09



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PAREN, INC.
dba PARK ENGINEERING
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 5B**

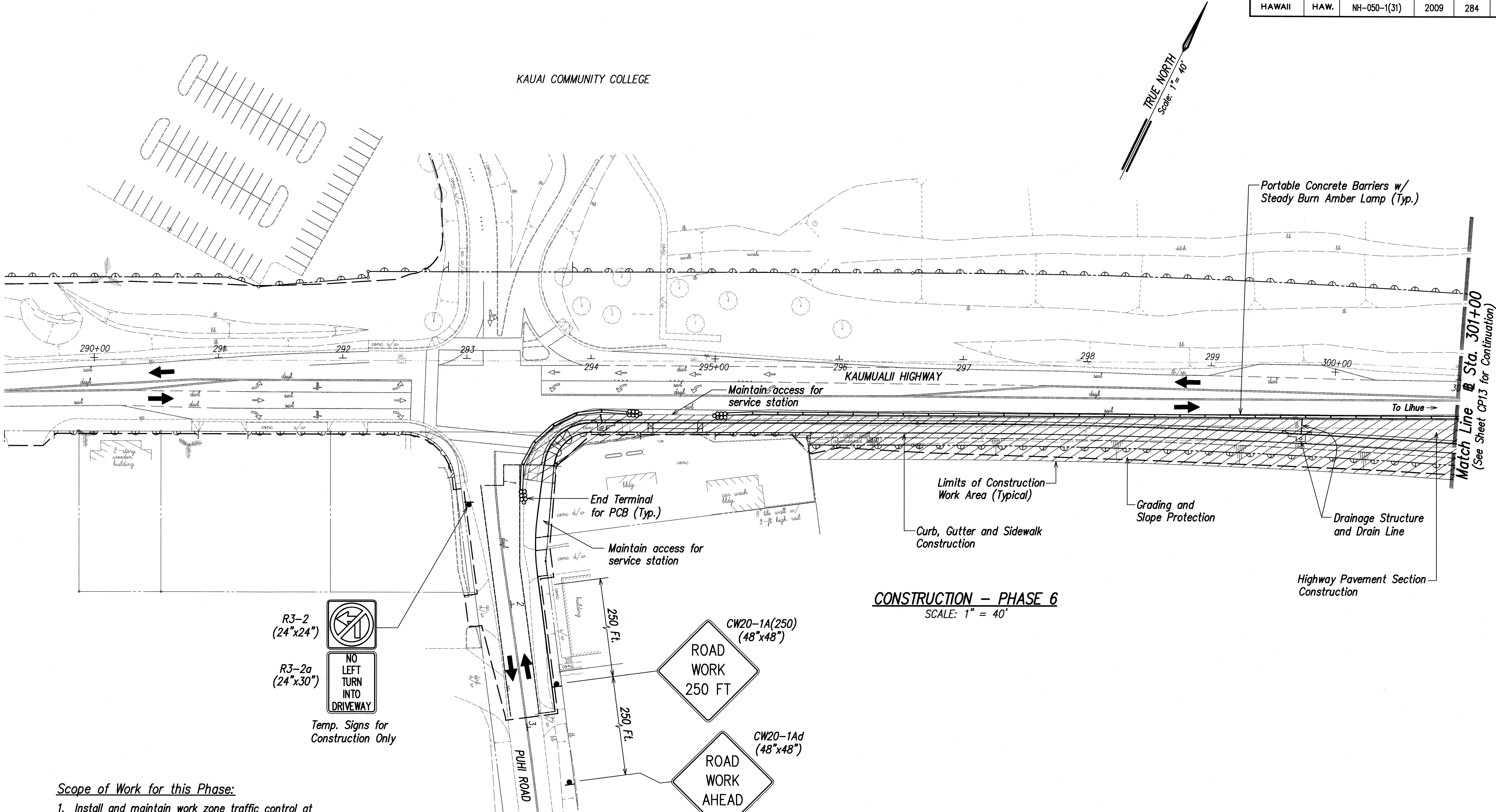
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 40'

Date: FEB. 2009

SHEET No. CP11 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	284	452



- Scope of Work for this Phase:**
1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
 2. Construct highway pavement section.
 3. Construct concrete curb, gutter and sidewalk.
 4. Construct and install highway drainage system.
 5. Construct drainage outlet structure and drainage culvert crossing.
 6. Install metal guardrail.
 7. Grading and slope protection.

- LEGEND:**
- Construction Sign
 - Portable Concrete Barrier
 - Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
 - Work Area
 - Travel Lane

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

LIB2 STATE DOT\KAWAII\PHASE 6\KAWAII-CP12-6A.dwg 2/10/09



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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

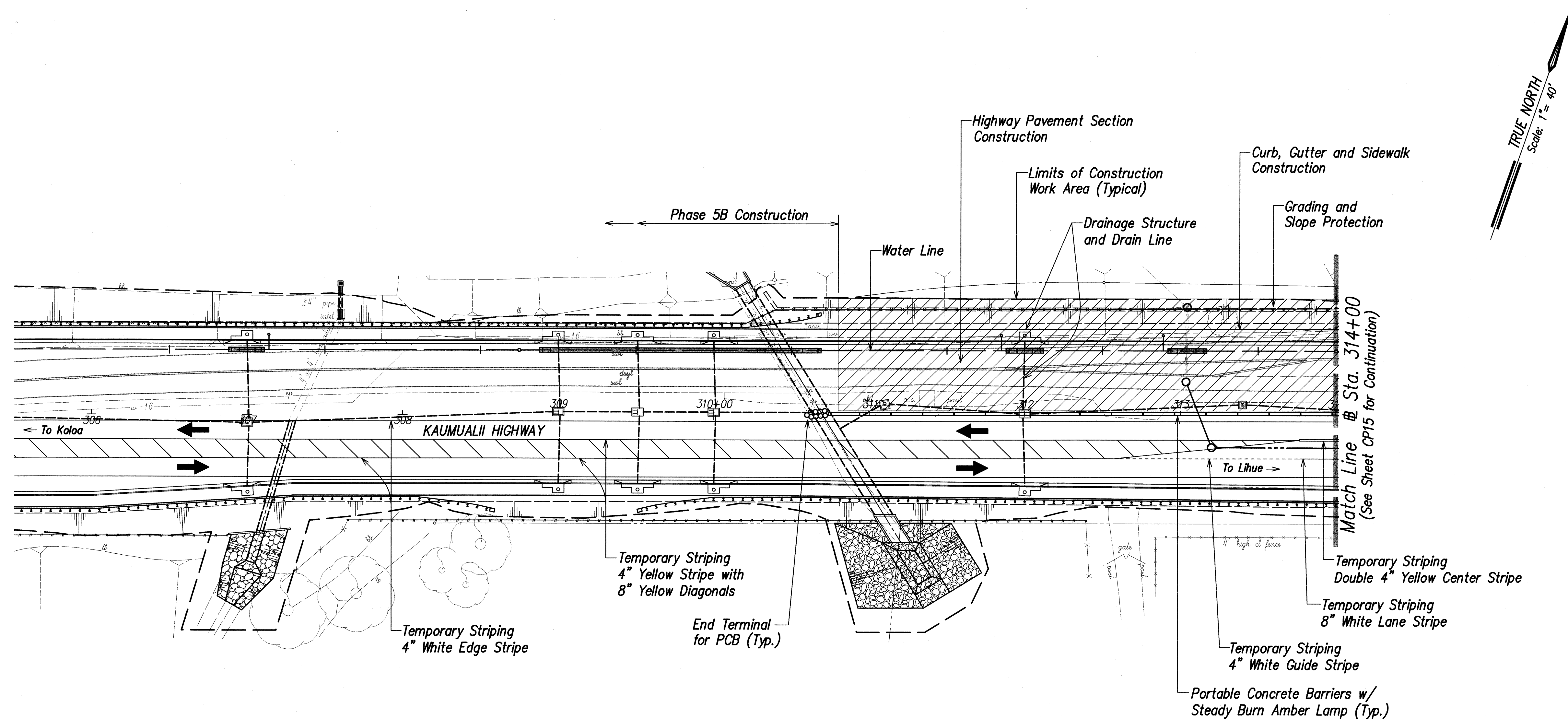
**CONSTRUCTION PHASING AND
 DETOUR PLAN - PHASE 6**

KAUMUALII HIGHWAY WIDENING
 Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
 FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 40' Date: FEB. 2009

SHEET No. CP12 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	286	452



CONSTRUCTION - PHASE 7
SCALE: 1" = 40'

Scope of Work for this Phase:

1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
2. Construct highway pavement section.
3. Construct concrete curb, gutter and sidewalk.
4. Construct and install highway drainage system.
5. Grading and slope protection.
6. Install waterline and appurtenances.

LEGEND:

- Construction Sign
- Portable Concrete Barrier
- Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
- Work Area
- Travel Lane

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

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HIGHWAYS DIVISION

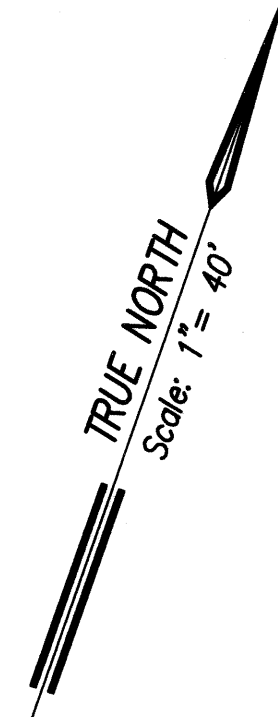
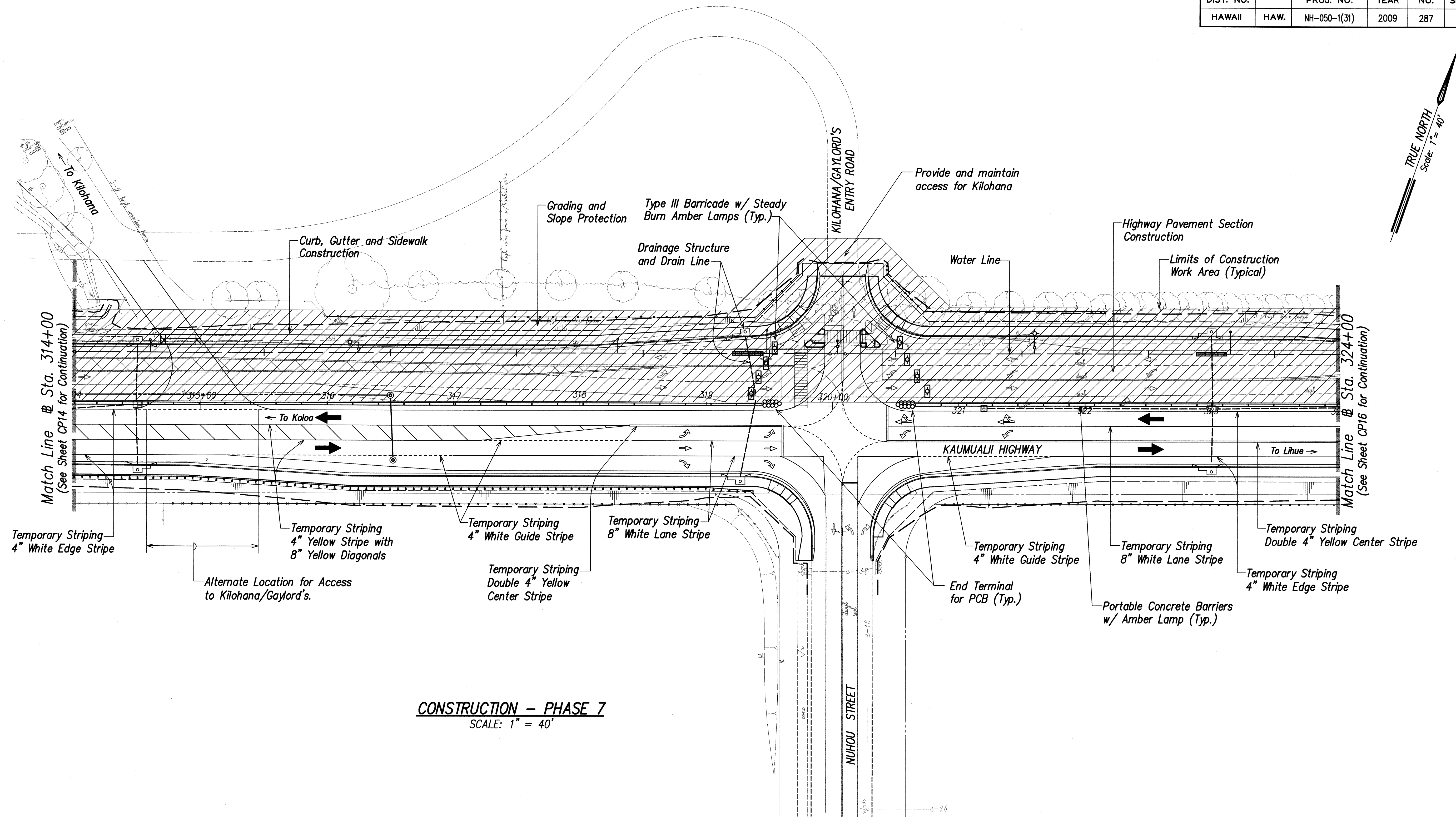
**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 7**

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 40' Date: FEB. 2009

SHEET No. CP14 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	287	452



CONSTRUCTION - PHASE 7
SCALE: 1" = 40'

Scope of Work for this Phase:

1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
2. Construct highway pavement section.
3. Construct concrete curb, gutter and sidewalk.
4. Construct and install highway drainage system.
5. Grading and slope protection.
6. Install waterline and appurtenances.

LEGEND:

- Construction Sign
- Portable Concrete Barrier
- Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
- Work Area
- Travel Lane

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
No.	

LIB2: STATE DOT\KAUMUALII\PHASE 7\CONSTRUCTION\PHASE 7\CP15.dwg 2/10/09



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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

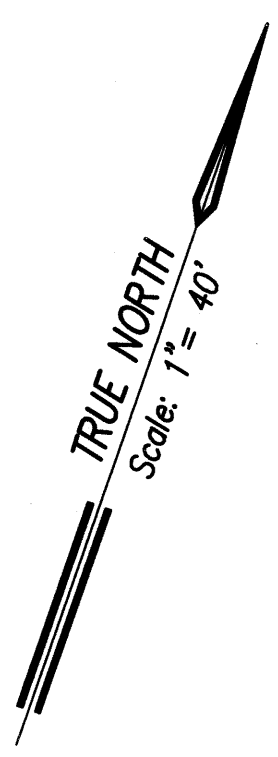
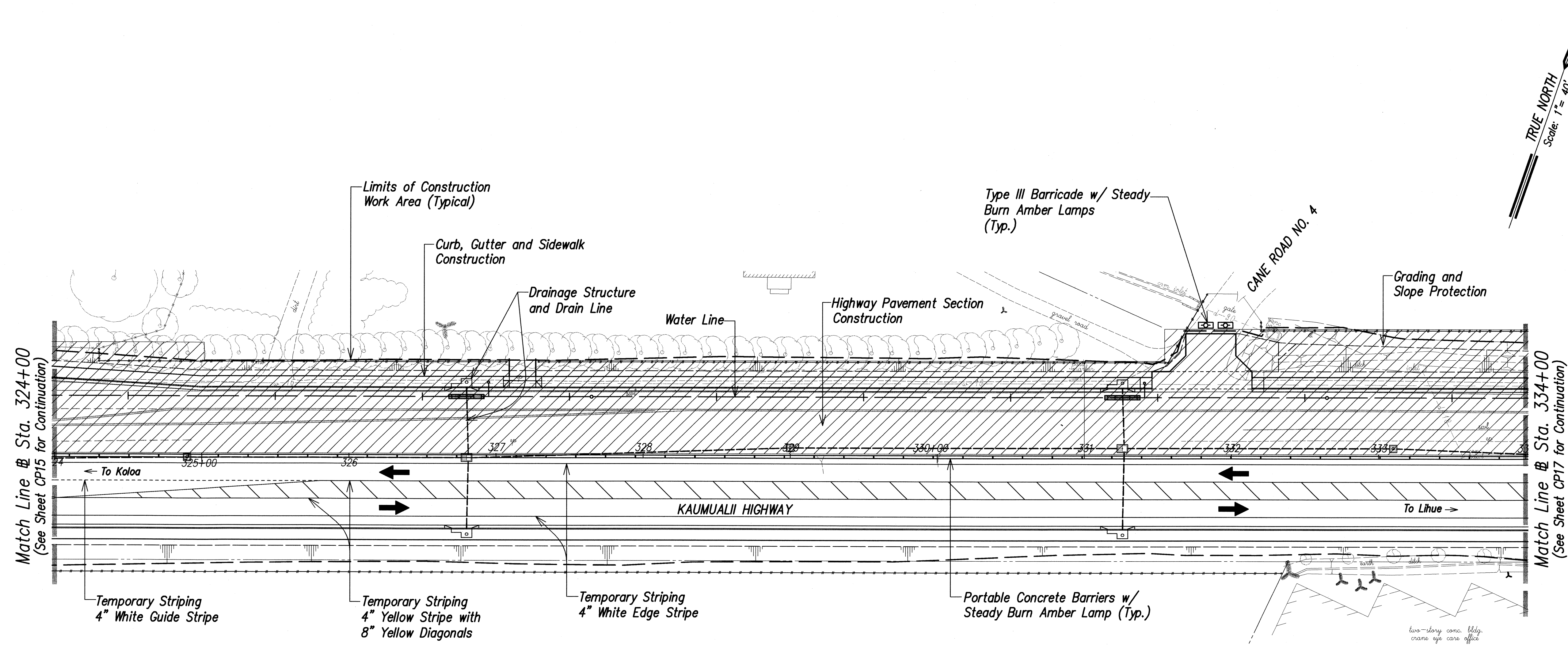
**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 7**

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 40' Date: FEB. 2009

SHEET No. CP15 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	288	452


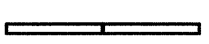

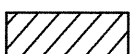



CONSTRUCTION – PHASE 7
SCALE: 1" = 40'

Scope of Work for this Phase:

1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
2. Construct highway pavement section.
3. Construct concrete curb, gutter and sidewalk.
4. Construct and install highway drainage system.
5. Grading and slope protection.
6. Install waterline and appurtenances.

LEGEND:

-  Construction Sign
-  Portable Concrete Barrier
-  Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
-  Work Area
-  Travel Lane

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

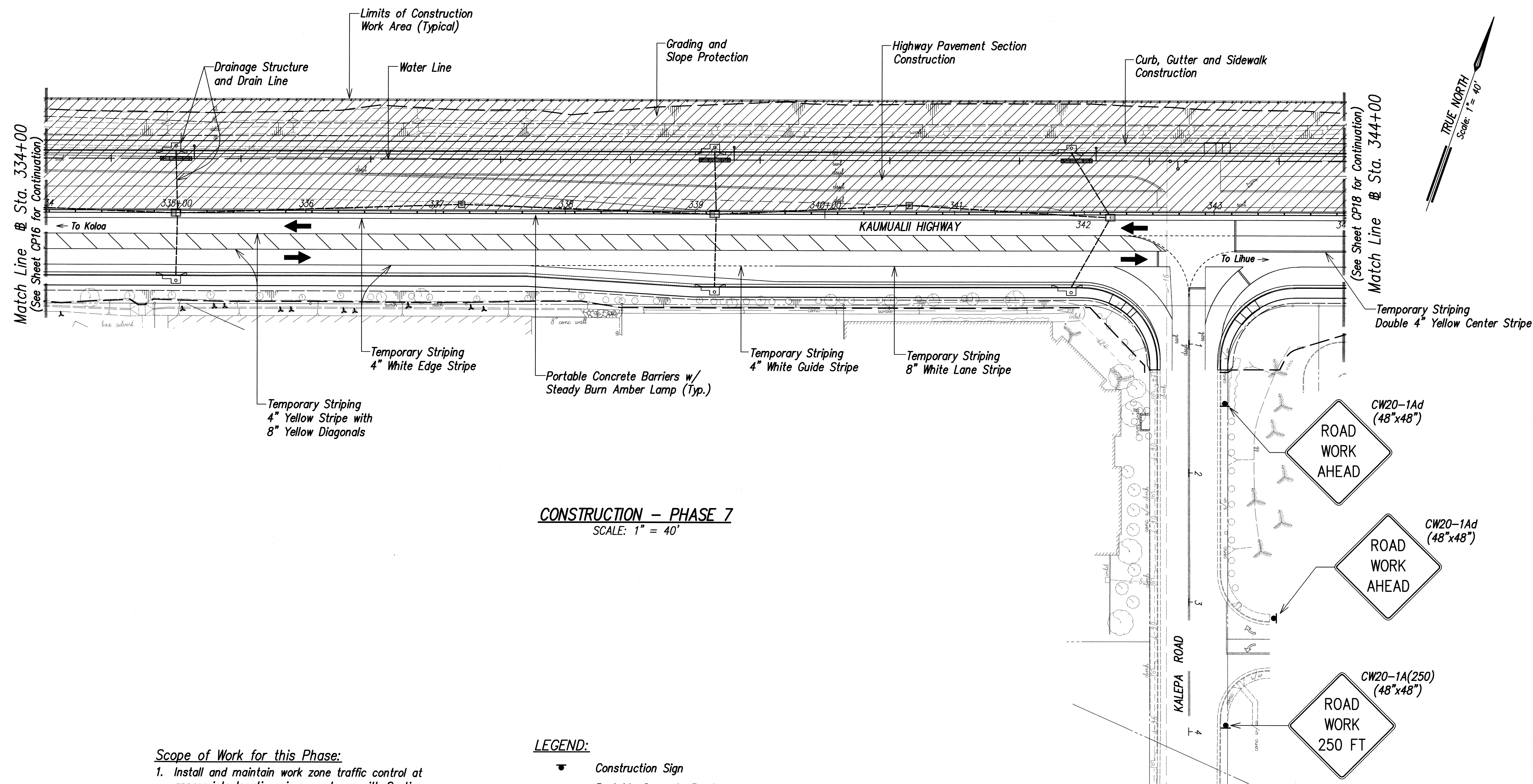
LIB2 STATE DOT\KAMUALII\PHASE7\CONSTRUCTION\KAWA\KAWA-CP16-CP17.dwg 2/10/09



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CONSTRUCTION PHASING AND
DETOUR PLAN – PHASE 7**
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 40' Date: FEB. 2009
SHEET No. CP16 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	289	452



CONSTRUCTION – PHASE 7
SCALE: 1" = 40'

Scope of Work for this Phase:

1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
2. Construct highway pavement section.
3. Construct concrete curb, gutter and sidewalk.
4. Construct and install highway drainage system.
5. Grading and slope protection.
6. Install waterline and appurtenances.

LEGEND:

- Construction Sign
- Portable Concrete Barrier
- Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
- Work Area
- Travel Lane

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
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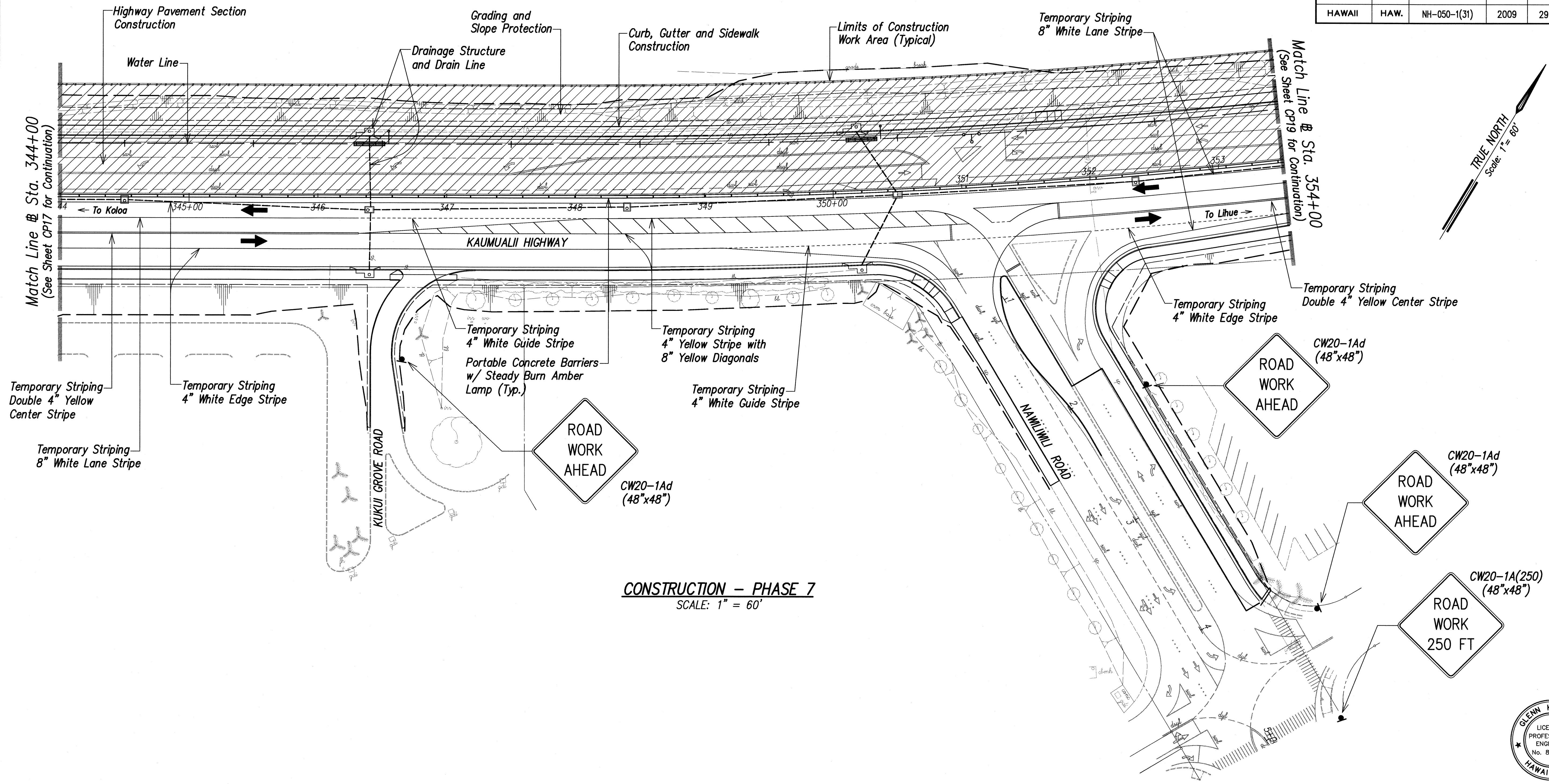
LIB2 STATE DOT\KAUMUALII-1\PHASE7A\REVISED\PLAN\NH050-CP17-20.dwg 2/10/09



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CONSTRUCTION PHASING AND
DETOUR PLAN – PHASE 7**
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 40' Date: FEB. 2009
SHEET No. CP17 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	290	452



CONSTRUCTION – PHASE 7
SCALE: 1" = 60'

- Scope of Work for this Phase:**
1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
 2. Construct highway pavement section.
 3. Construct concrete curb, gutter and sidewalk.
 4. Construct and install highway drainage system.
 5. Grading and slope protection.
 6. Install waterline and appurtenances.

- LEGEND:**
- Construction Sign
 - Portable Concrete Barrier
 - Type III Barricade w/ Steady Burn Amber Lamps (8-foot long unless otherwise noted)
 - Work Area
 - Travel Lane

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

LIB2: STATE DOT/KAUMUALII-1 PHASE 7A REVISION (PLAN) NH050-CP18-1E.dwg 2/10/09



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

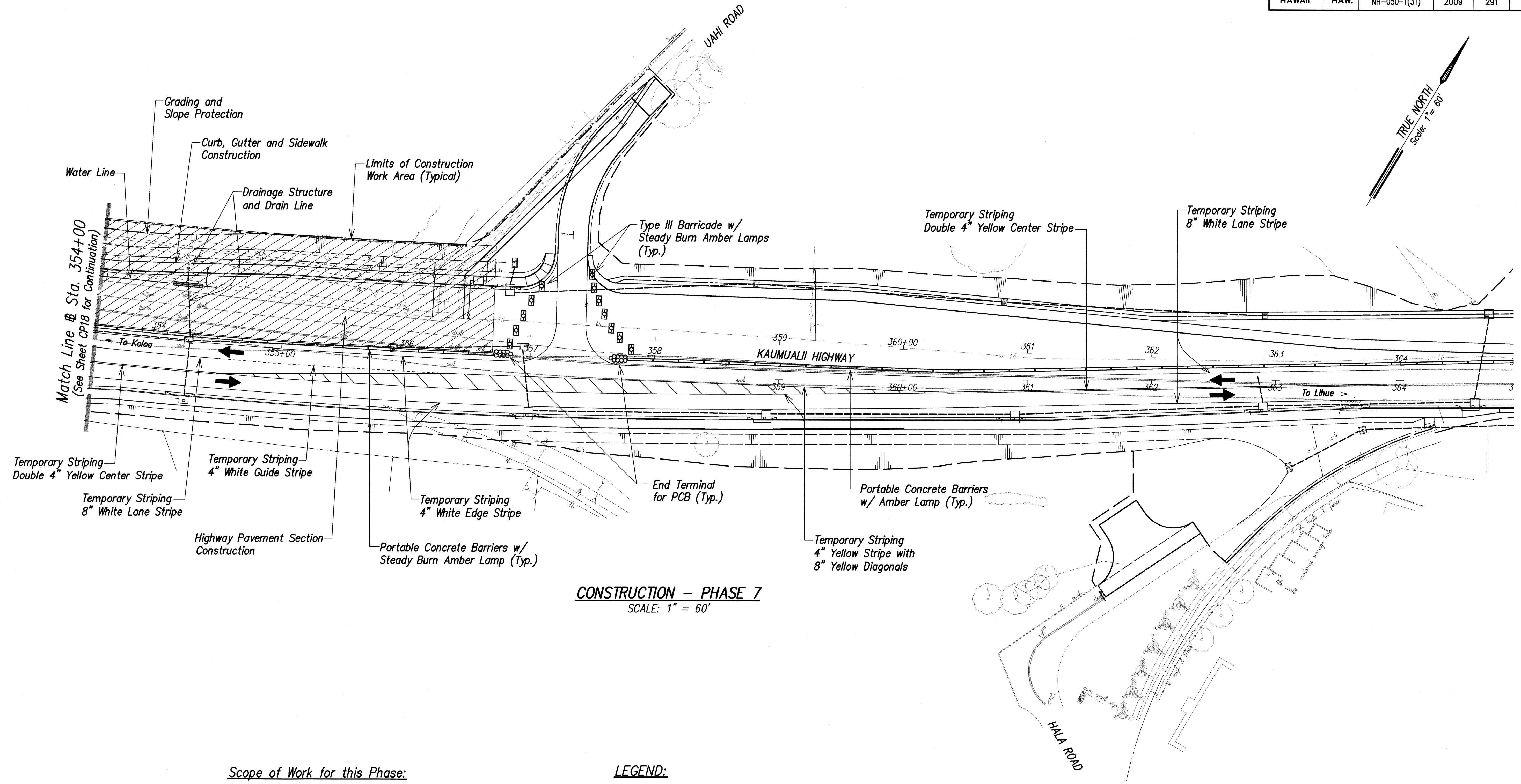
**CONSTRUCTION PHASING AND
DETOUR PLAN – PHASE 7**

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 60'
Date: FEB. 2009

SHEET No. CP18 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	291	452



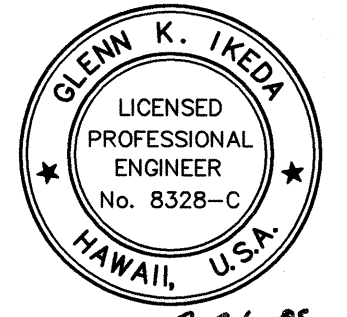
CONSTRUCTION – PHASE 7
SCALE: 1" = 60'

- Scope of Work for this Phase:
1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
 2. Construct highway pavement section.
 3. Construct concrete curb, gutter and sidewalk.
 4. Construct and install highway drainage system.
 5. Grading and slope protection.
 6. Install waterline and appurtenances.

- LEGEND:
- Construction Sign
 - Portable Concrete Barrier
 - Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
 - Work Area
 - Travel Lane

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

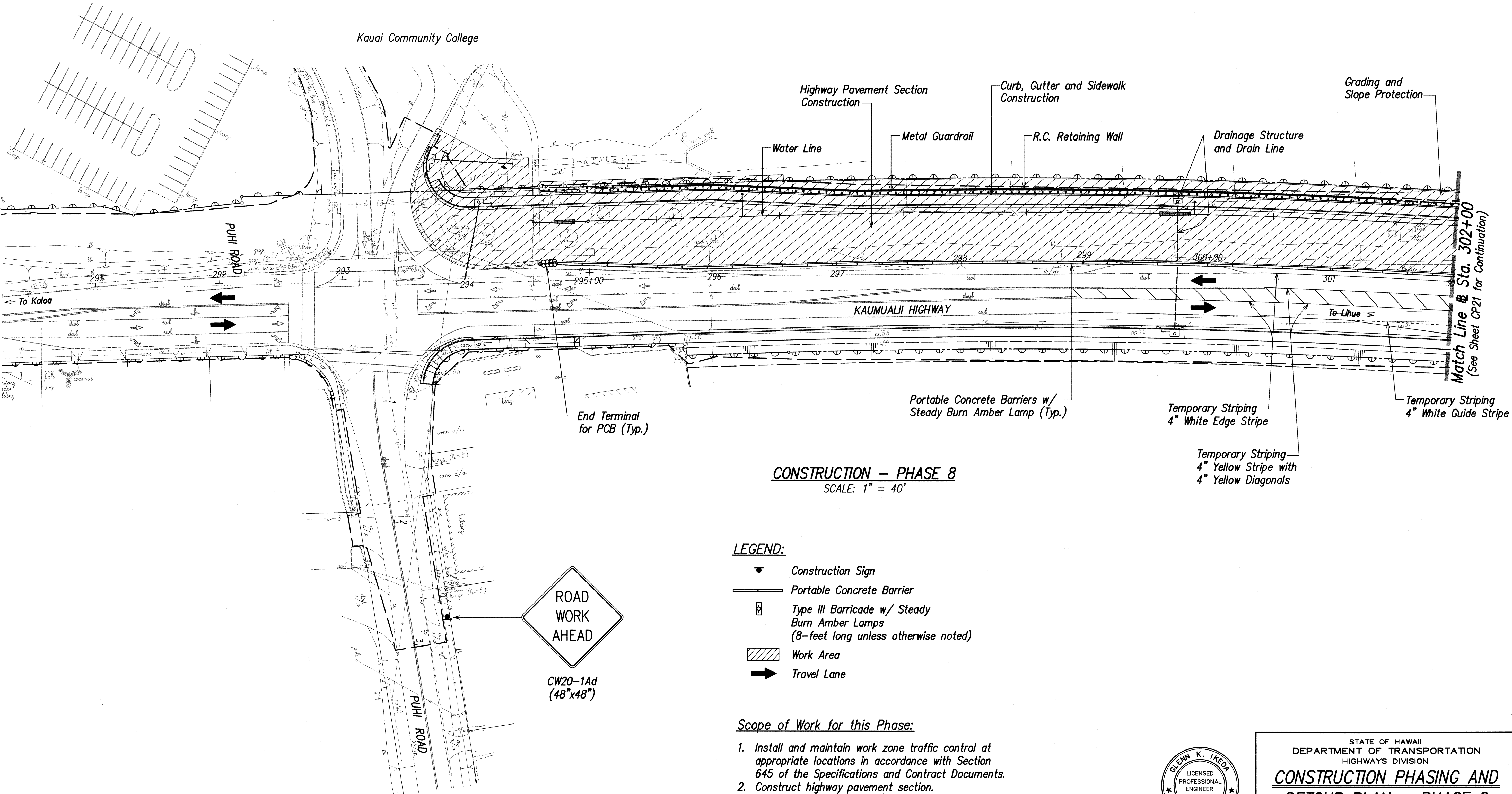
LIB2 STATE DOT\HAWAII-1\PHASE 1A DESIGN\05\ANS\KHW-CP19-7E.dwg 2/10/09



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dba PARK ENGINEERING
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CONSTRUCTION PHASING AND
DETOUR PLAN – PHASE 7**
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 60' Date: FEB. 2009
SHEET No. CP19 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	292	452



CONSTRUCTION - PHASE 8
SCALE: 1" = 40'

LEGEND:

- Construction Sign
- Portable Concrete Barrier
- Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
- Work Area
- Travel Lane

Scope of Work for this Phase:

1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
2. Construct highway pavement section.
3. Construct concrete curb, gutter and sidewalk.
4. Construct and install highway drainage system.
5. Grading and slope protection.
6. Install waterline and appurtenances.
7. Install metal guardrail.
8. Construct reinforced concrete retaining wall.



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Park Engineering
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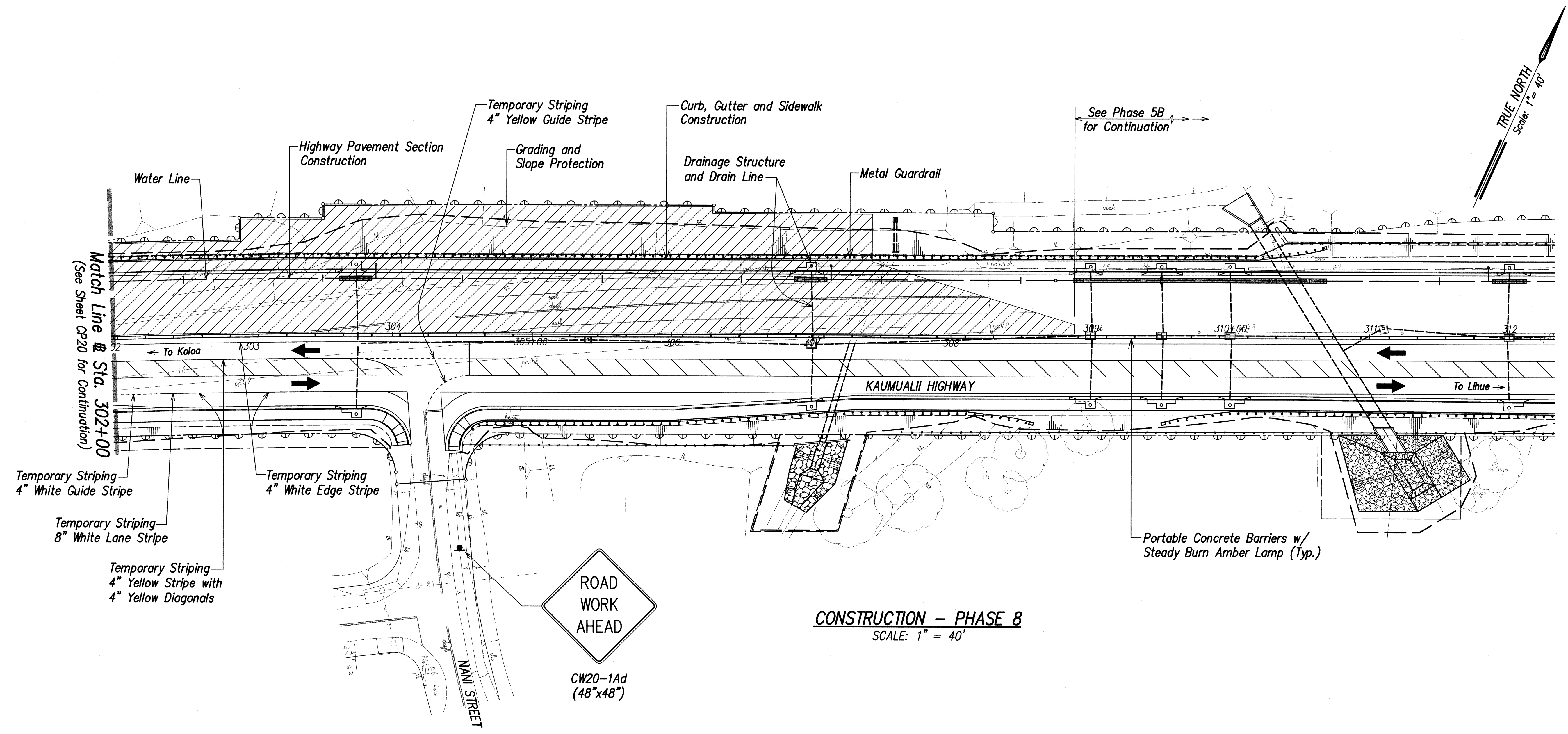
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 8**
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 40' Date: FEB. 2009
SHEET No. CP20 OF CP32 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	No.
NOTE BOOK	

100-STATE-0001-KAUMUALII-HIGHWAY-CONSTRUCTION-PHASE-8-CP20-34.dwg 2/10/09

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	293	452



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

LIB: STATE DOT KAUMUALII - PHASE 8 - CONSTRUCTION PLAN - CP21 - 28.dwg 2/10/09

LEGEND:

- Construction Sign
- Portable Concrete Barrier
- Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
- Work Area
- Travel Lane

Scope of Work for this Phase:

1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
2. Construct highway pavement section.
3. Construct concrete curb, gutter and sidewalk.
4. Construct and install highway drainage system.
5. Grading and slope protection.
6. Install waterline and appurtenances.
7. Install metal guardrail.
8. Construct reinforced concrete retaining wall.

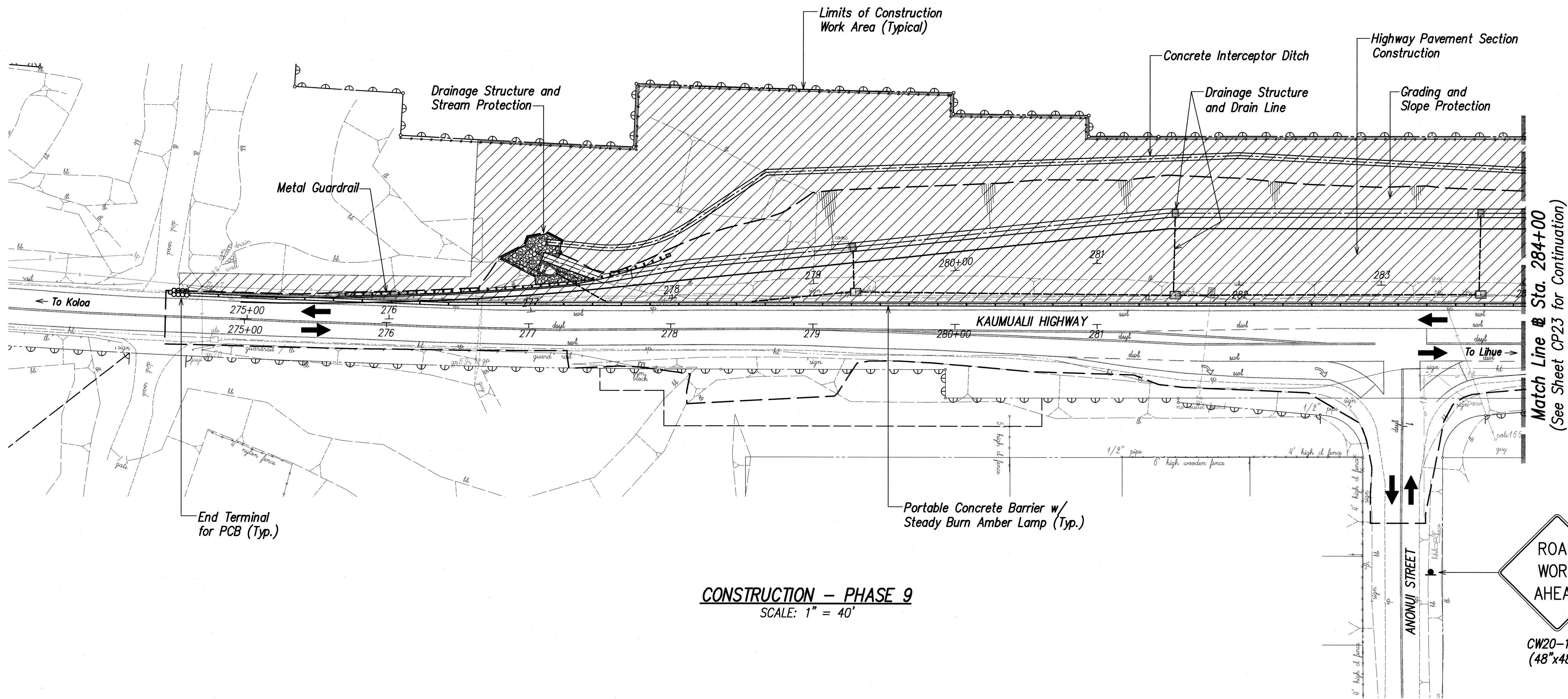


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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 8**
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 40'
Date: FEB. 2009
SHEET No. CP21 OF CP32 SHEETS

2-26-09
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	294	452



CONSTRUCTION - PHASE 9
SCALE: 1" = 40'

Scope of Work for this Phase:

1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
2. Construct highway pavement section.
3. Construct concrete curb, gutter and sidewalk.
4. Construct and install highway drainage system.
5. Grading and slope protection.
6. Install metal guardrail.
7. Construct drainage inlet structure, stream protection, and drainage culvert crossing.
8. Install concrete interceptor ditch.

LEGEND:

- Construction Sign
- Portable Concrete Barrier
- Type III Barricade w/ Steady Burn Amber Lamps (8-foot long unless otherwise noted)
- Work Area
- Travel Lane

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

LIB2: STATE DOT\HAWAII\PHASE 9\REVISIONS\KIMM-C222-2A.dwg 2/10/09

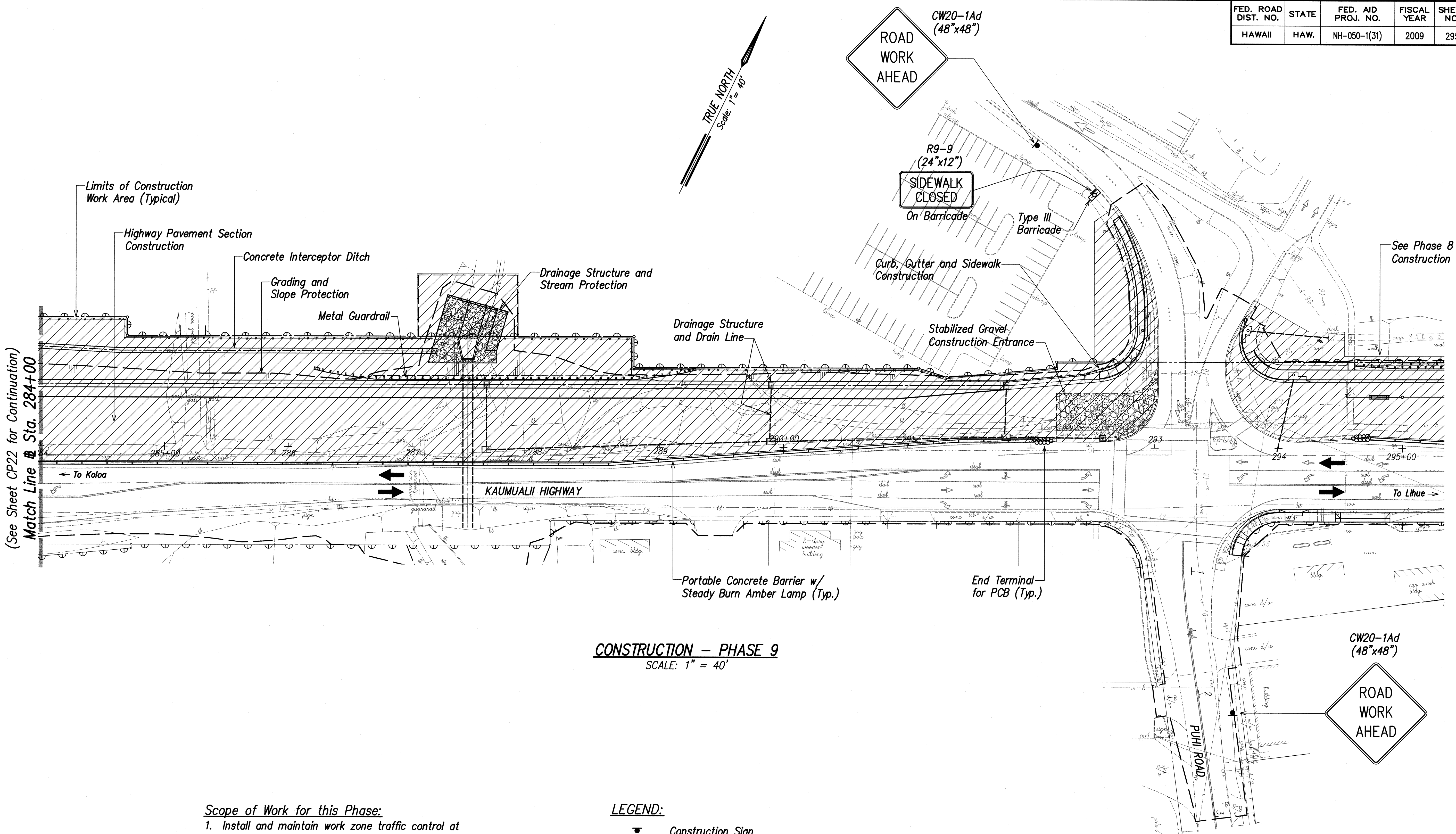


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LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 9**
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 40' Date: FEB. 2009
SHEET No. CP22 OF CP32 SHEETS

2-26-09
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dba PARK ENGINEERING
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	295	452



CONSTRUCTION - PHASE 9
SCALE: 1" = 40'

Scope of Work for this Phase:

1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
2. Construct highway pavement section.
3. Construct concrete curb, gutter and sidewalk.
4. Construct and install highway drainage system.
5. Grading and slope protection.
6. Install metal guardrail.
7. Construct drainage inlet structure, stream protection, and drainage culvert crossing.
8. Install concrete interceptor ditch.

LEGEND:

- Construction Sign
- Portable Concrete Barrier
- Type III Barricade w/ Steady Burn Amber Lamps (8-foot long unless otherwise noted)
- Work Area
- Travel Lane

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

LEG. STATE DOT/KAUMUALII HIGHWAY REVISION PLANS/KAUMUALII-CP23-09.dwg 5/01/09

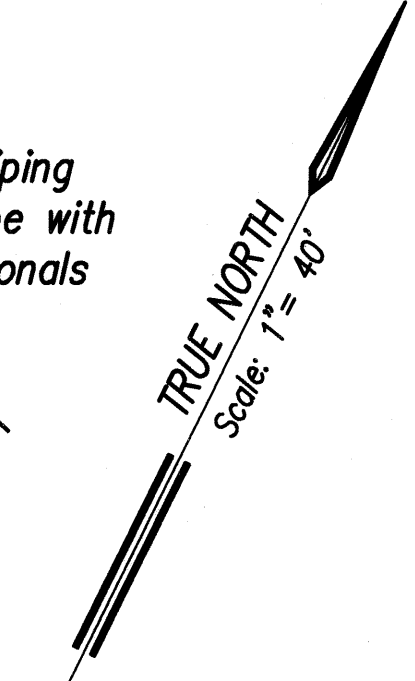
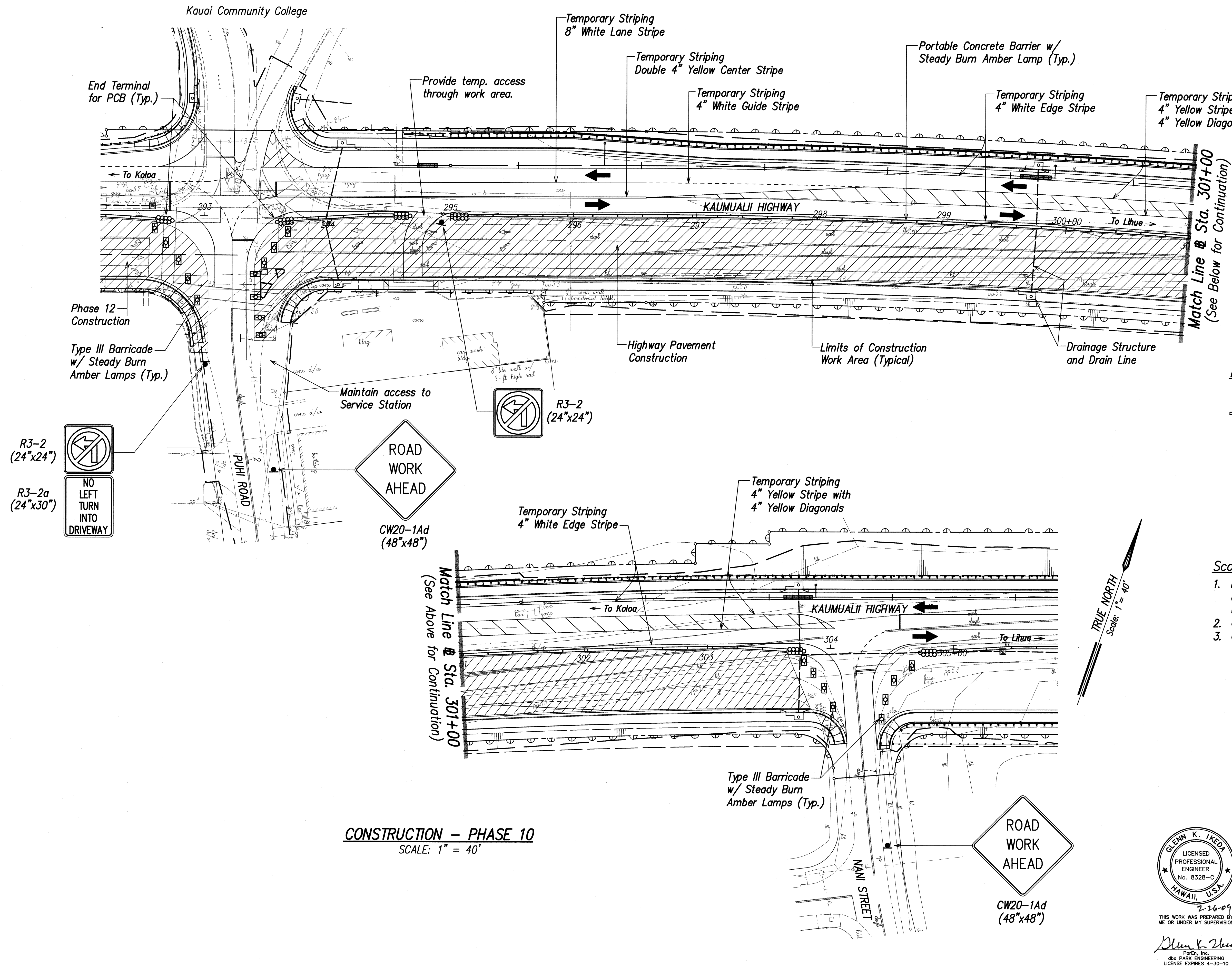


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P.E., INC.
d/b/a PARK ENGINEERING
LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 9**
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 40'
Date: MAY 2009
SHEET No. CP23 OF CP32 SHEETS

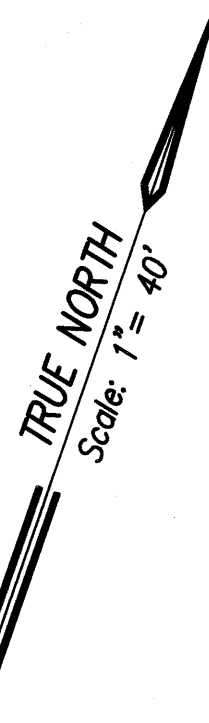
295

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	296	452



- LEGEND:**
- Construction Sign
 - Portable Concrete Barrier
 - Type III Barricade w/ Steady Burn Amber Lamps (8-foot long unless otherwise noted)
 - Work Area
 - Travel Lane

- Scope of Work for this Phase:**
1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
 2. Construct highway pavement section.
 3. Construct and install highway drainage system.



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QUANTITIES BY	
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NOTE BOOK	
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CONSTRUCTION - PHASE 10
SCALE: 1" = 40'

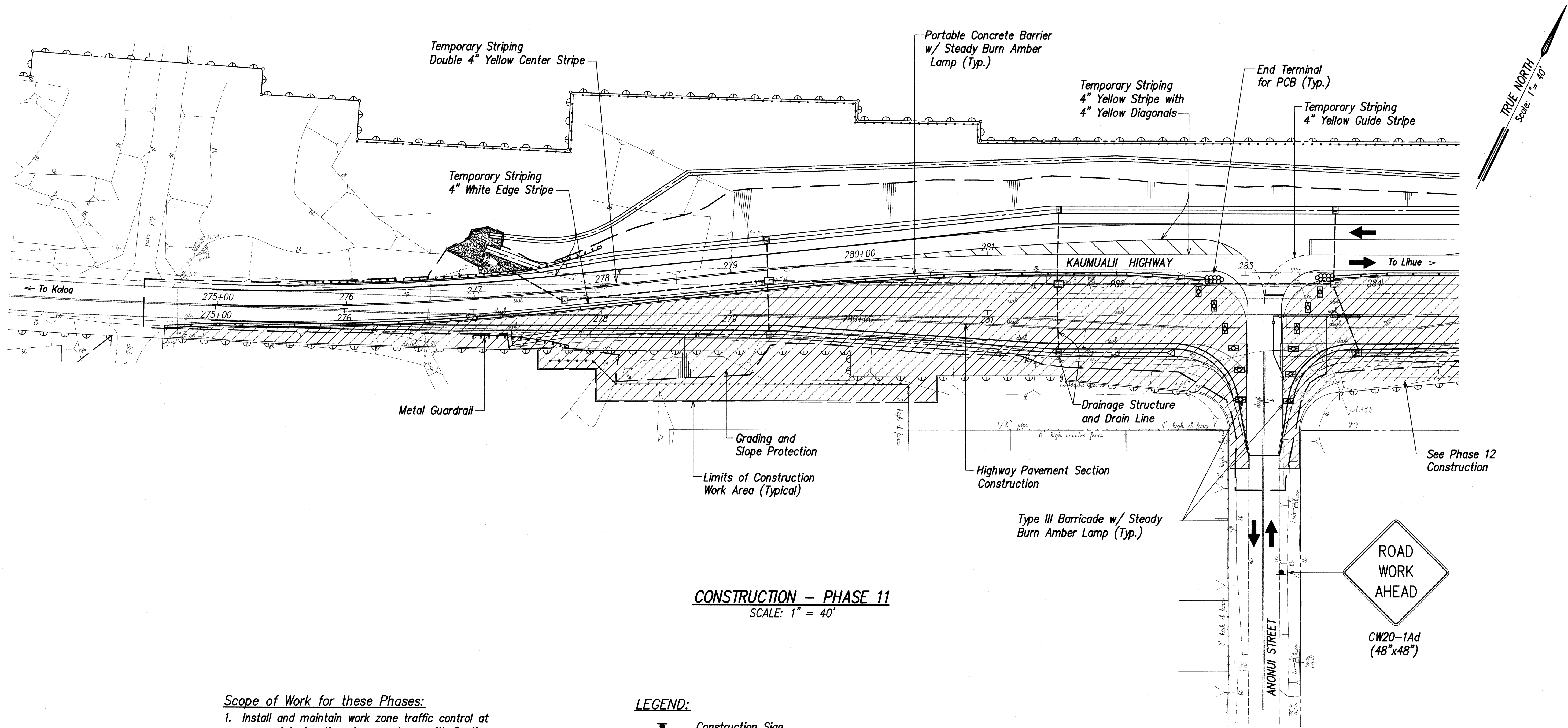


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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 10**
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 40'
SHEET No. CP24 OF CP32 SHEETS

Date: FEB. 2009

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	297	452



CONSTRUCTION - PHASE 11
SCALE: 1" = 40'

Scope of Work for these Phases:

1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
2. Construct highway pavement section.
3. Construct concrete curb, gutter and sidewalk.
4. Construct and install highway drainage system.
5. Grading and slope protection.
6. Install metal guardrail.
7. Construct drainage outlet structure, stream protection, and drainage culvert crossing.
8. Install waterline and appurtenances.

LEGEND:

- Construction Sign
- Portable Concrete Barrier
- Type III Barricade w/ Steady Burn Amber Lamps (8-feet long unless otherwise noted)
- Work Area
- Travel Lane

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NOTE BOOK	
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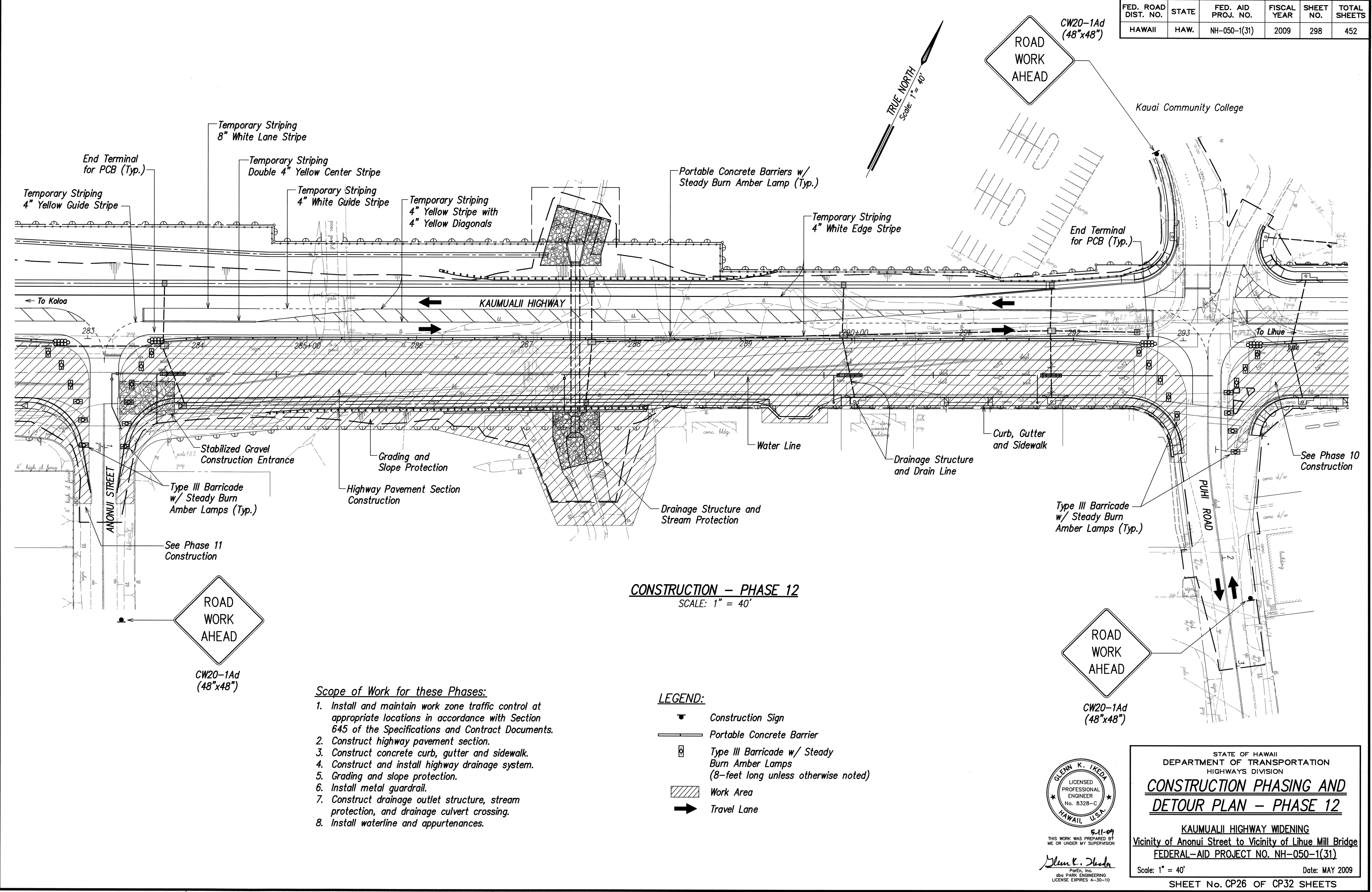
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 11**
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 40' Date: FEB. 2009
SHEET No. CP25 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	298	452



CONSTRUCTION - PHASE 12
SCALE: 1" = 40'

- Scope of Work for these Phases:**
1. Install and maintain work zone traffic control at appropriate locations in accordance with Section 645 of the Specifications and Contract Documents.
 2. Construct highway pavement section.
 3. Construct concrete curb, gutter and sidewalk.
 4. Construct and install highway drainage system.
 5. Grading and slope protection.
 6. Install metal guardrail.
 7. Construct drainage outlet structure, stream protection, and drainage culvert crossing.
 8. Install waterline and appurtenances.

- LEGEND:**
- Construction Sign
 - Portable Concrete Barrier
 - Type III Barricade w/ Steady Burn Amber Lamps (8-foot long unless otherwise noted)
 - Work Area
 - Travel Lane

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HIGHWAYS DIVISION

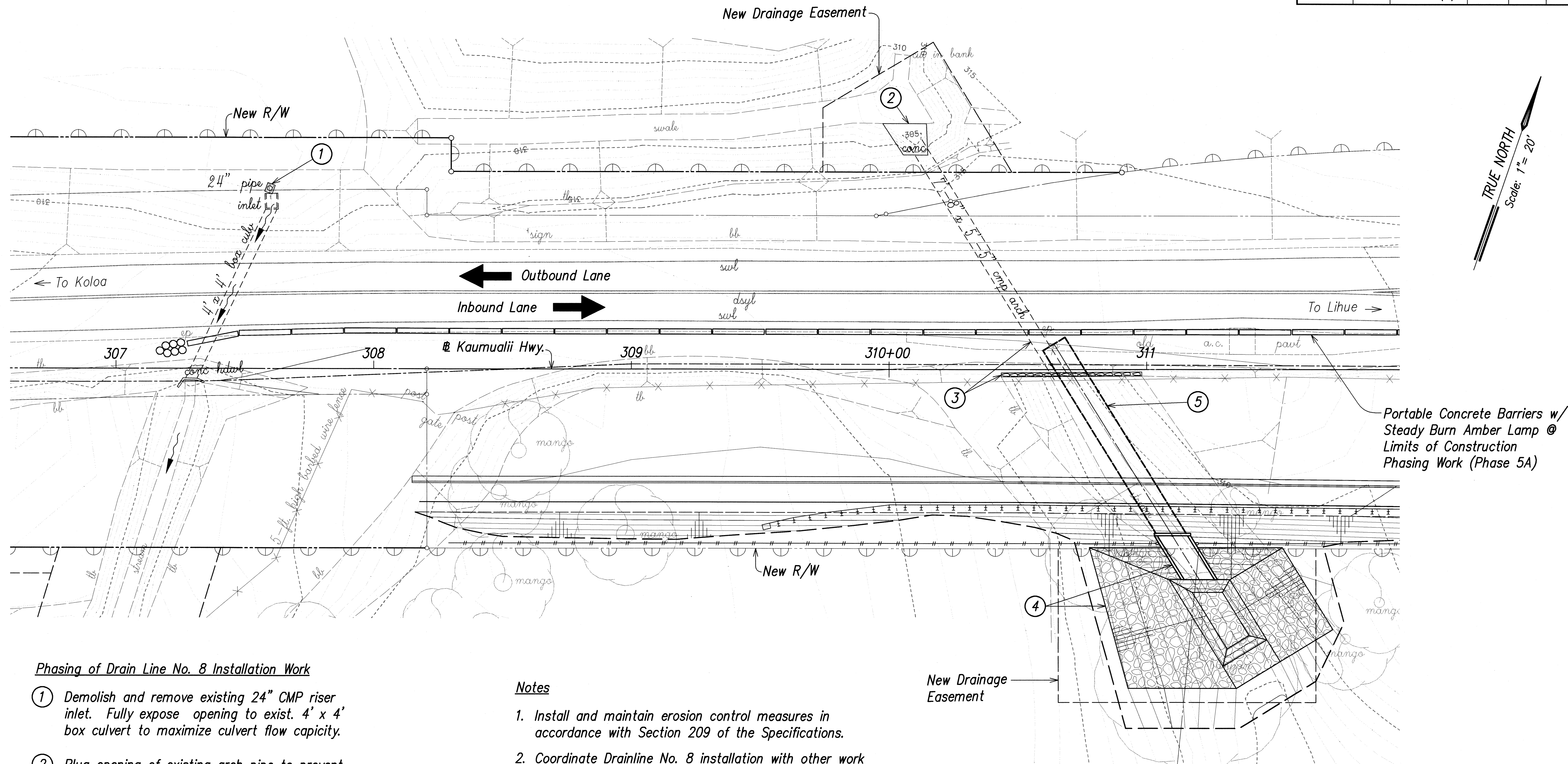
**CONSTRUCTION PHASING AND
DETOUR PLAN - PHASE 12**

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 40'
Date: MAY 2009

SHEET No. CP26 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	299	452



Phasing of Drain Line No. 8 Installation Work

- 1 Demolish and remove existing 24" CMP riser inlet. Fully expose opening to exist. 4' x 4' box culvert to maximize culvert flow capacity.
- 2 Plug opening of existing arch pipe to prevent all drainage flow from entering.
- 3 Demolish and remove existing CRM outlet structure and portion of existing arch pipe located within the limits of construction.
- 4 Construct Outlet No. 3 and GRP apron.
- 5 Install portion of Drain Line No. 8 from Begin Sta. 0+00 to Sta. 0+88.

Notes

1. Install and maintain erosion control measures in accordance with Section 209 of the Specifications.
2. Coordinate Drainline No. 8 installation with other work in Construction Phase 5A as shown on Sheet CP10.

CONSTRUCTION PHASING FOR INSTALLATION OF DRAIN LINE No. 8

Scale: 1" = 20'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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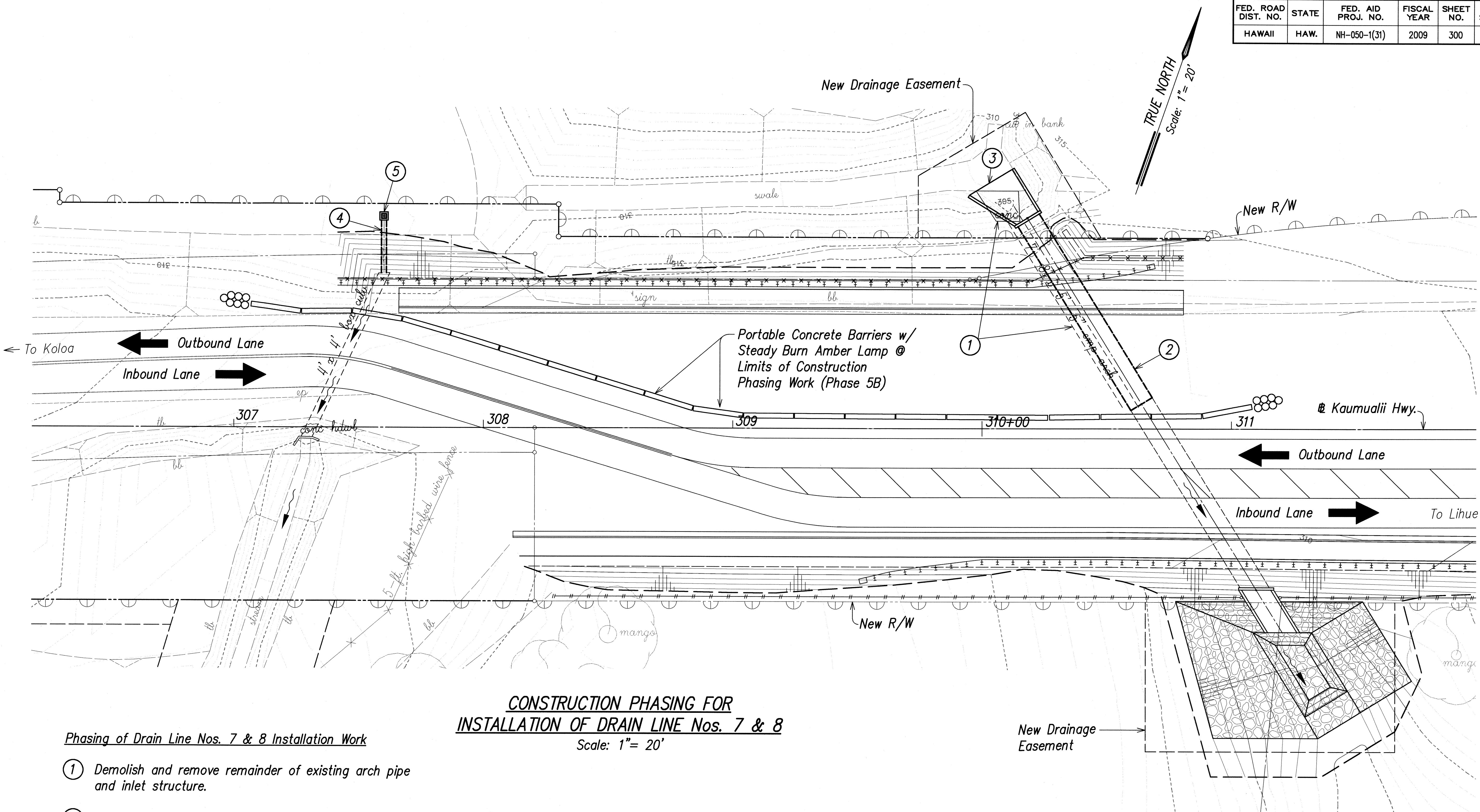
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CONSTRUCTION PHASING PLAN
DRAIN LINE No. 8
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 20' Date: FEB. 2009
SHEET No. CP27 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	300	452



**CONSTRUCTION PHASING FOR
INSTALLATION OF DRAIN LINE Nos. 7 & 8**
Scale: 1"= 20'

Phasing of Drain Line Nos. 7 & 8 Installation Work

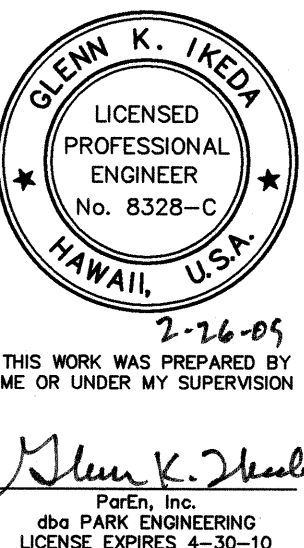
- 1 Demolish and remove remainder of existing arch pipe and inlet structure.
- 2 Install remainder of Drain Line No. 8 from Sta. 0+88 to End Sta. 1+76. Connect to previously constructed section of culvert. See connection detail, Sht. CP32.
- 3 Construct Inlet No. 2.
- 4 Install portion of Drain Line No. 7 from Sta. 1+47.9 to End Sta. 1+70.7, as shown on Sheet D1.12.
- 5 Construct Special GDI-7A.

Notes

1. Install and maintain erosion control measures in accordance with Section 209 of the Specifications.
2. Coordinate Drainline Nos. 7 & 8 installation with other work in Construction Phase 5B as shown on Sheet CP11.

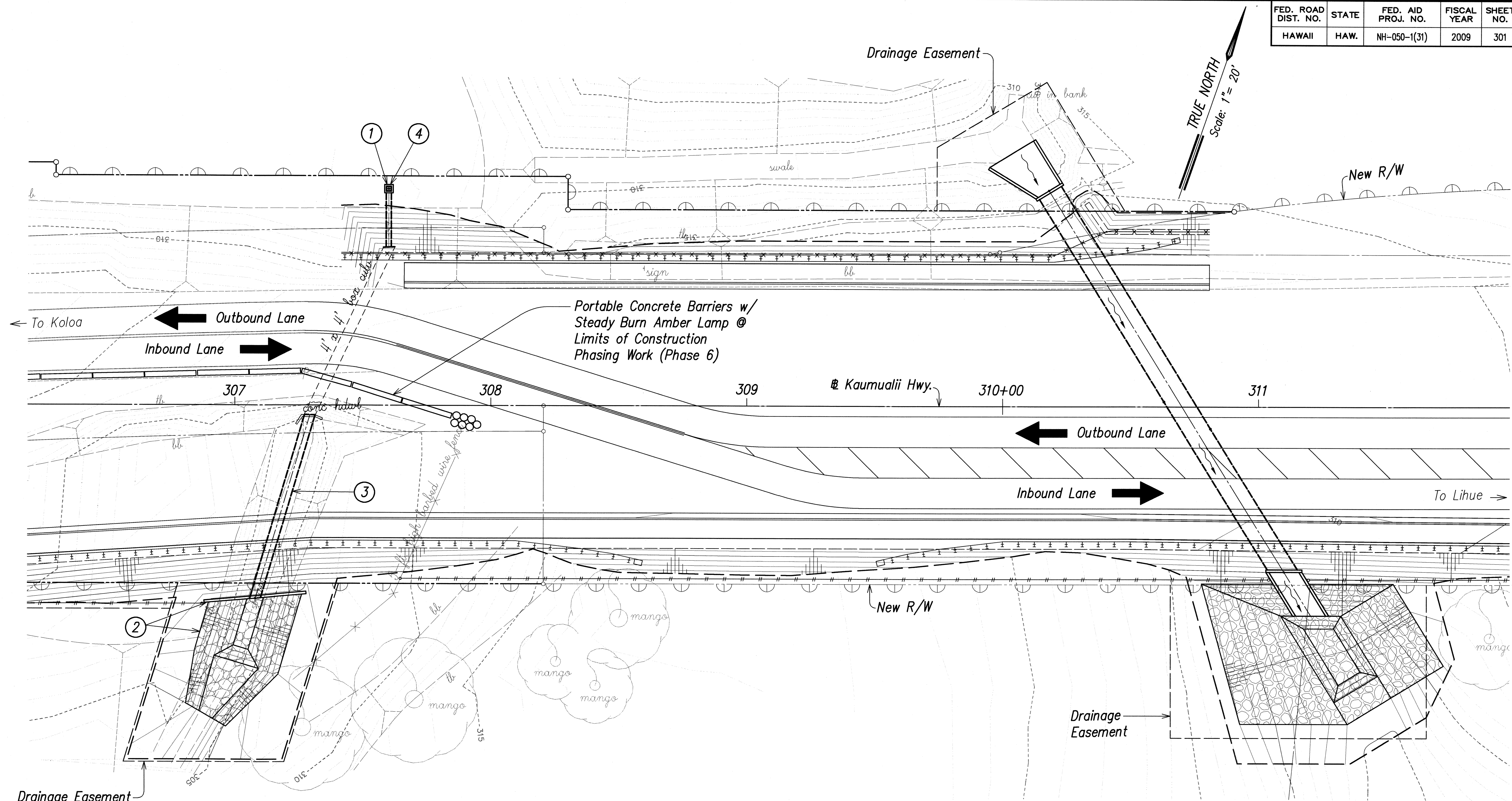
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CONSTRUCTION PHASING PLAN
DRAIN LINE Nos. 7 & 8
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 20' Date: FEB. 2009
SHEET No. CP28 OF CP32 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	301	452



CONSTRUCTION PHASING FOR INSTALLATION OF DRAIN LINE No. 7

Scale: 1"= 20'

Phasing of Drain Line No. 7 Installation Work

- ① Provide temporary cover over drainage grate and slot openings to prevent all drainage flow from entering.

② Construct Outlet No. 2 and install dumped riprap apron.
- ③ Install remainder of Drain Line No. 7 from Begin Sta. 0+00 to Sta. 0+75.2.

④ Remove temporary cover over drainage grate and slot openings.

Notes

1. Install and maintain erosion control measures in accordance with Section 209 of the Specifications.
2. Coordinate Drainline No. 7 installation with other work in Construction Phase 6 as shown on Sheet CP13.



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STATE OF HAWAII
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HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN
DRAIN LINE No. 7
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 20' Date: FEB. 2009
SHEET No. CP29 OF CP32 SHEETS

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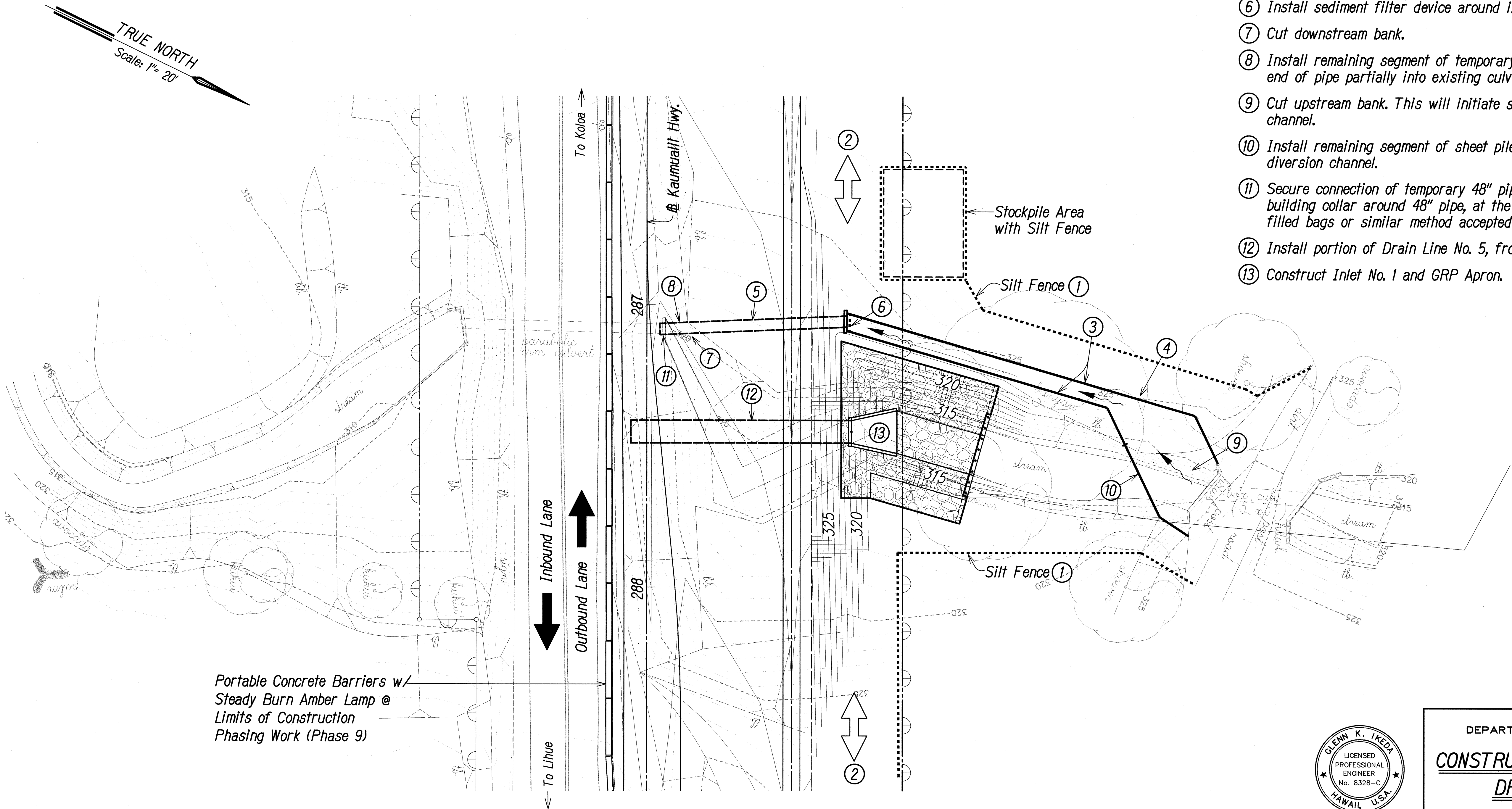
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	302	452

General Notes

1. Install and maintain erosion control measures in accordance with Section 209 of the Specifications.
2. Coordinate Drainline No. 5 installation with other work in Construction Phase 9 as shown on Sheet CP23.
3. The cost for temporary stream diversion shall be paid for under Item No. 209.0100 - Installation, Maintenance, Monitoring and Removal of BMP.

Phasing of Drain Line No. 5 Installation Work

- ① Install Silt Fences
- ② Construct truck access routes to work area.
- ③ Install sheet piles as follows: Install west-side, completely as shown; Install east-side of diversion, stopping short of blocking stream.
- ④ Excavate soil from within sheet pile diversion, without cutting bank of stream.
- ⑤ Install temporary 48" pipe to the extent possible.
- ⑥ Install sediment filter device around inlet of temporary 48" pipe.
- ⑦ Cut downstream bank.
- ⑧ Install remaining segment of temporary 48" pipe. Extend downstream end of pipe partially into existing culvert.
- ⑨ Cut upstream bank. This will initiate stream flow through diversion channel.
- ⑩ Install remaining segment of sheet piles on upstream, east-side of diversion channel.
- ⑪ Secure connection of temporary 48" pipe to existing culvert by building collar around 48" pipe, at the connection point, with sand-filled bags or similar method accepted by the Engineer.
- ⑫ Install portion of Drain Line No. 5, from Station 0+60 to 1+37.6.
- ⑬ Construct Inlet No. 1 and GRP Apron.



Portable Concrete Barriers w/
Steady Burn Amber Lamp @
Limits of Construction
Phasing Work (Phase 9)

CONSTRUCTION PHASING FOR INSTALLATION OF DRAIN LINE No. 5

Scale: 1" = 20'

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102 STATE DOT STANDARD - PHASE 9 REVISION PLAN, HAWAII-CP32-PLAN-09 4/30/09



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CONSTRUCTION PHASING PLAN
DRAIN LINE No. 5
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 20' Date: MAY 2009
SHEET No. CP30 OF CP32 SHEETS

