City and County of Honolulu
Department of Transportation Services

Rapid Transit Division (RTD)

KAMEHAMEHA HIGHWAY GUIDEWAY

Drawing No.	Drawing Description
GN002 (Volume 1)	Volume 1 Title Sheet
RP101 through RP106	Systems Site Plans
GN002 (Volume 2)	Volume 2 Title Sheet
UP101 through UP142	Utility Relocation Plans Water, Sewer, Drainage, Petroleum, & Gas
UP301 through UP340	Utility Relocation Plans Electrical & Communications
SL003 through SL042	Street Lighting Plans
GN002 (Volume 3)	Volume 3 Title Sheet
GP001 through GP021	Structural Plan & Profiles

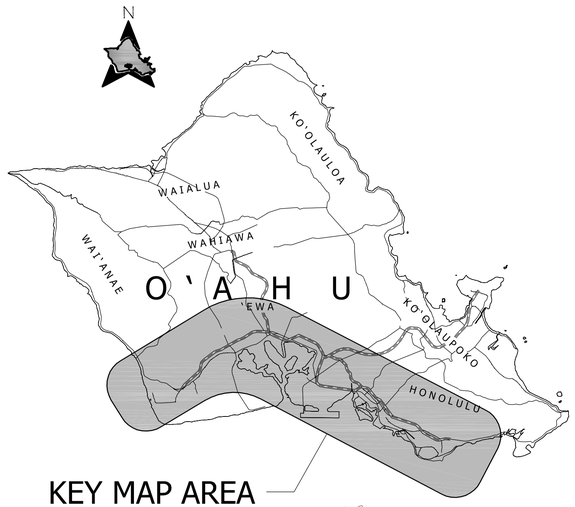
Prepared for:
HHCTCP

Prepared by:
Parsons Brinckerhoff
General Engineering Consultant (GEC)

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

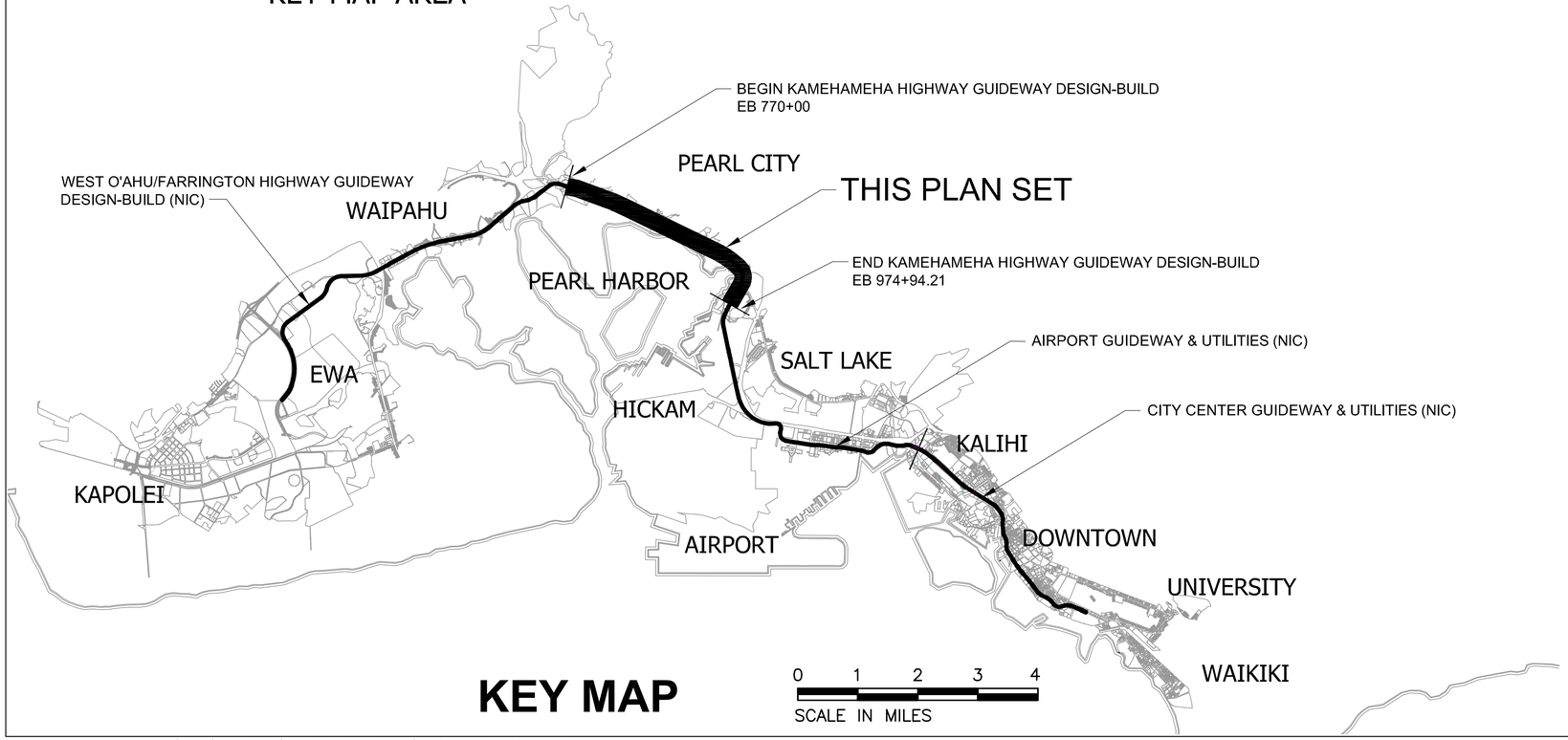
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

VOLUME 1 - CIVIL AND TRAFFIC



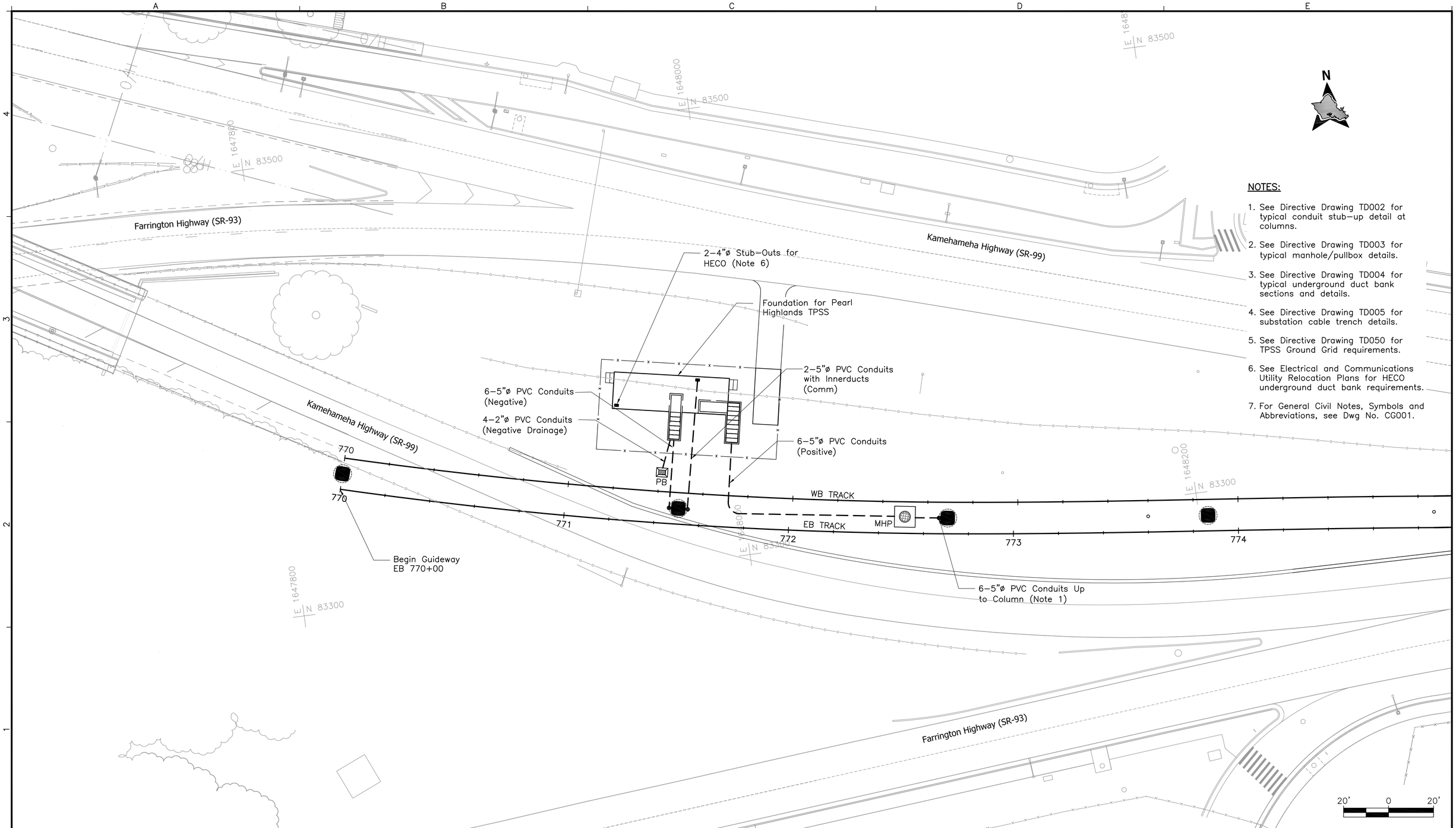
City and County of Honolulu
Department of Transportation Services

Rapid Transit Division



KEY MAP

2010-02-16 8:25 AM K:\CADD\02 General\SDB – Kam Hway DB\KHDB-A02-GN002-Vol1.dwg



NOTES:

1. See Directive Drawing TD002 for typical conduit stub–up detail at columns.
2. See Directive Drawing TD003 for typical manhole/pullbox details.
3. See Directive Drawing TD004 for typical underground duct bank sections and details.
4. See Directive Drawing TD005 for substation cable trench details.
5. See Directive Drawing TD050 for TPSS Ground Grid requirements.
6. See Electrical and Communications Utility Relocation Plans for HECO underground duct bank requirements.
7. For General Civil Notes, Symbols and Abbreviations, see Dwg No. CG001.

Rev	By	Date	Description
A	AB	03–19–10	Issued For Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: D Gobelle
Drawn: C Jamison
Checked: L Mayola
Approved: A Borst
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant:

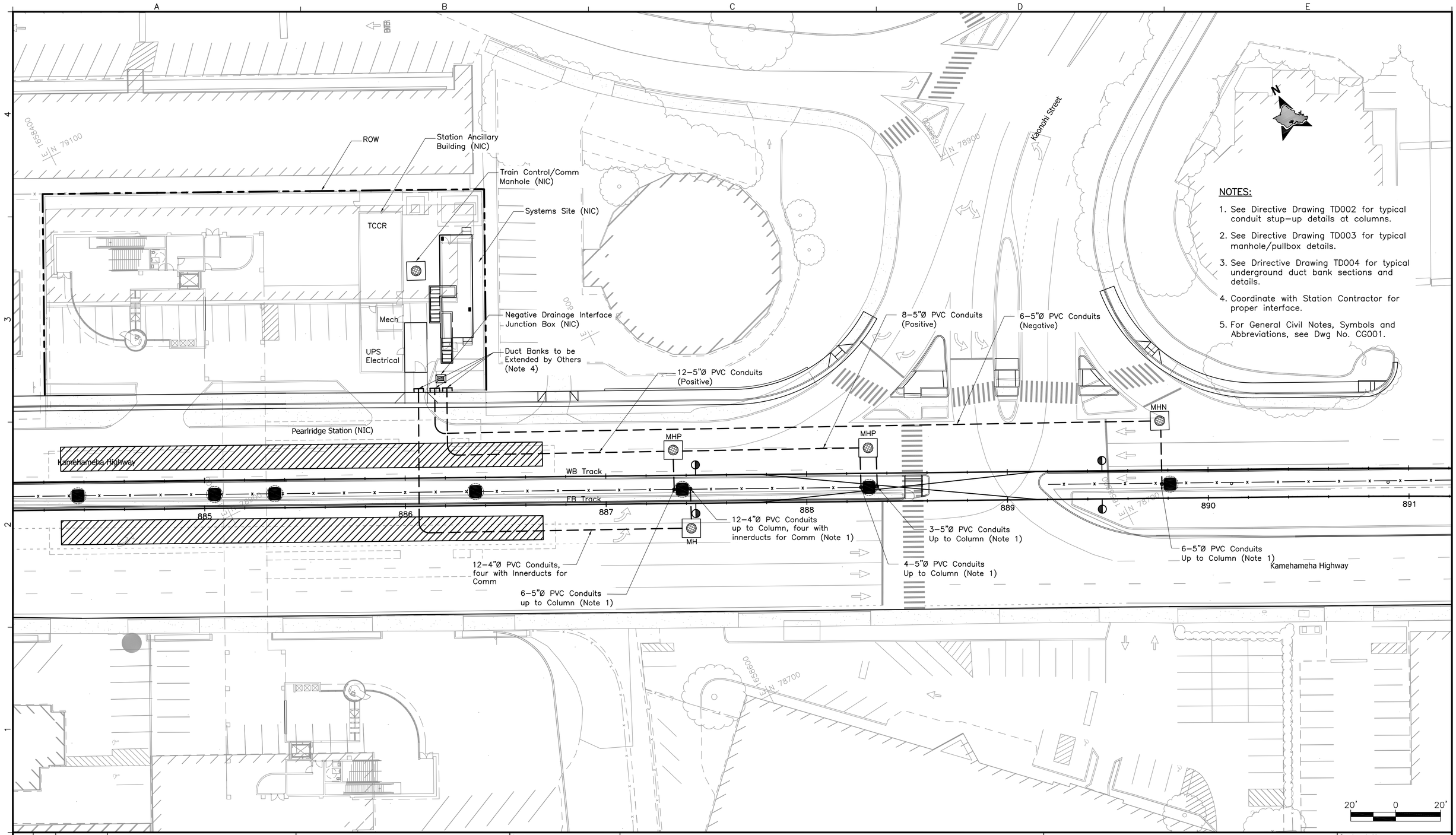
For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

SYSTEMS SITE PLAN
SITE # 10

Contract No.: DB–320
CADD File: KHDB–B10–RP101
Drawing No: RP101
Rev. A
Scale: 1"=20'
Page No. 91 of 265

2010–03–11 10:16 AM K:\CADD\16 Communications\KHDB–B10–RP101.dwg



NOTES:

1. See Directive Drawing TD002 for typical conduit stup–up details at columns.
2. See Directive Drawing TD003 for typical manhole/pullbox details.
3. See Drirective Drawing TD004 for typical underground duct bank sections and details.
4. Coordinate with Station Contractor for proper interface.
5. For General Civil Notes, Symbols and Abbreviations, see Dwg No. CG001.

Rev	By	Date	Description
A	AB	03–19–10	Issued For Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Gobelle
Drawn: C Jamison
Checked: L Mayola
Approved: A Borst
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant:

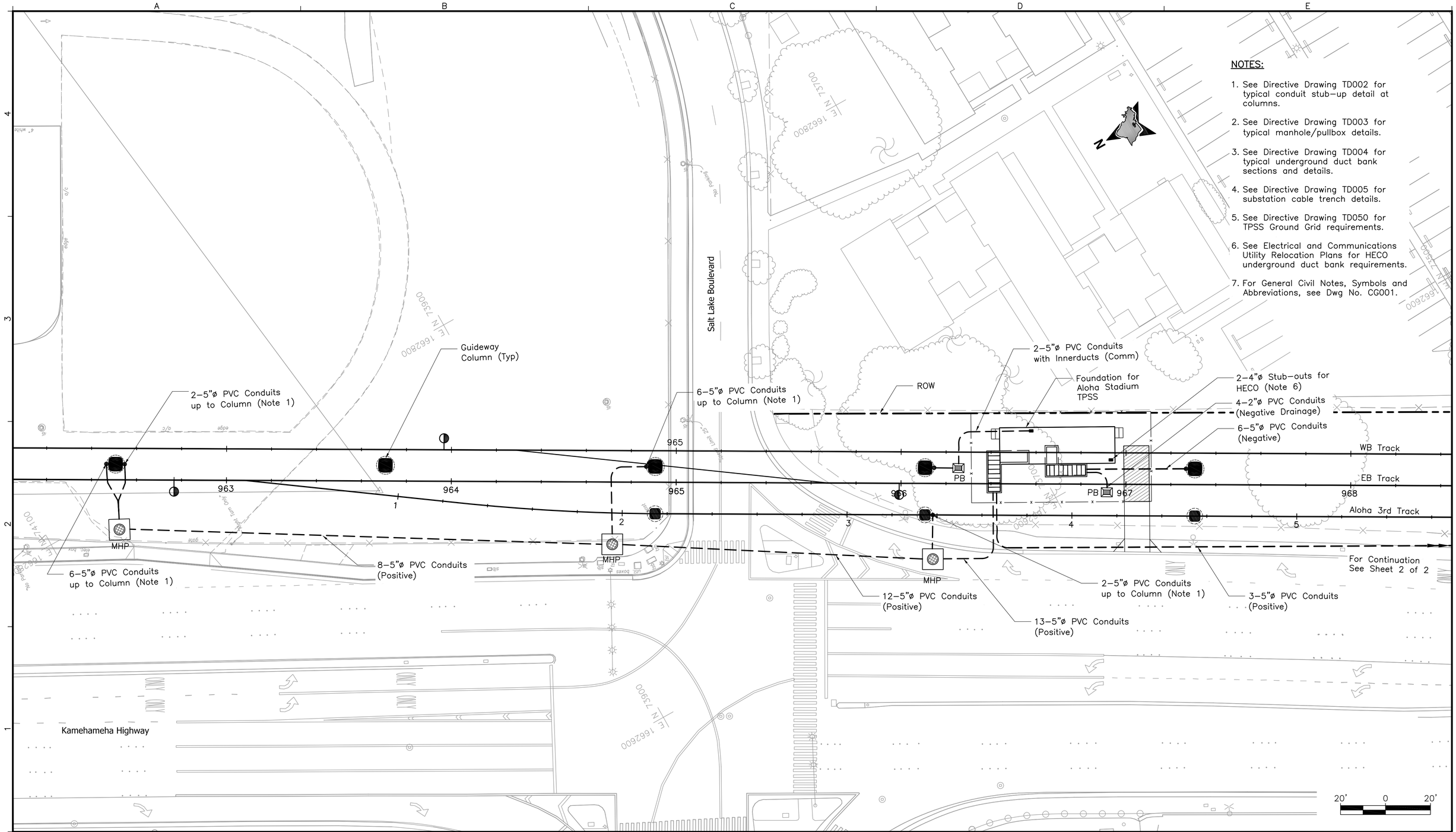
For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

SYSTEMS SITE PLAN
SITE # 12

Contract No.: DB–320
CADD File: KHDB–B10–RP103
Drawing No: RP103
Rev. A
Scale: 1"=20'
Page No. 92 of 265

2010–03–11 11:02 AM K:\CADD\16 Communications\KHDB–B10–RP103.dwg



NOTES:

1. See Directive Drawing TD002 for typical conduit stub–up detail at columns.
2. See Directive Drawing TD003 for typical manhole/pullbox details.
3. See Directive Drawing TD004 for typical underground duct bank sections and details.
4. See Directive Drawing TD005 for substation cable trench details.
5. See Directive Drawing TD050 for TPSS Ground Grid requirements.
6. See Electrical and Communications Utility Relocation Plans for HECO underground duct bank requirements.
7. For General Civil Notes, Symbols and Abbreviations, see Dwg No. CG001.

Rev	By	Date	Description
A	AB	03–19–10	Issued For Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Gobelle
Drawn: C Jamison
Checked: L Mayola
Approved: A Borst
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

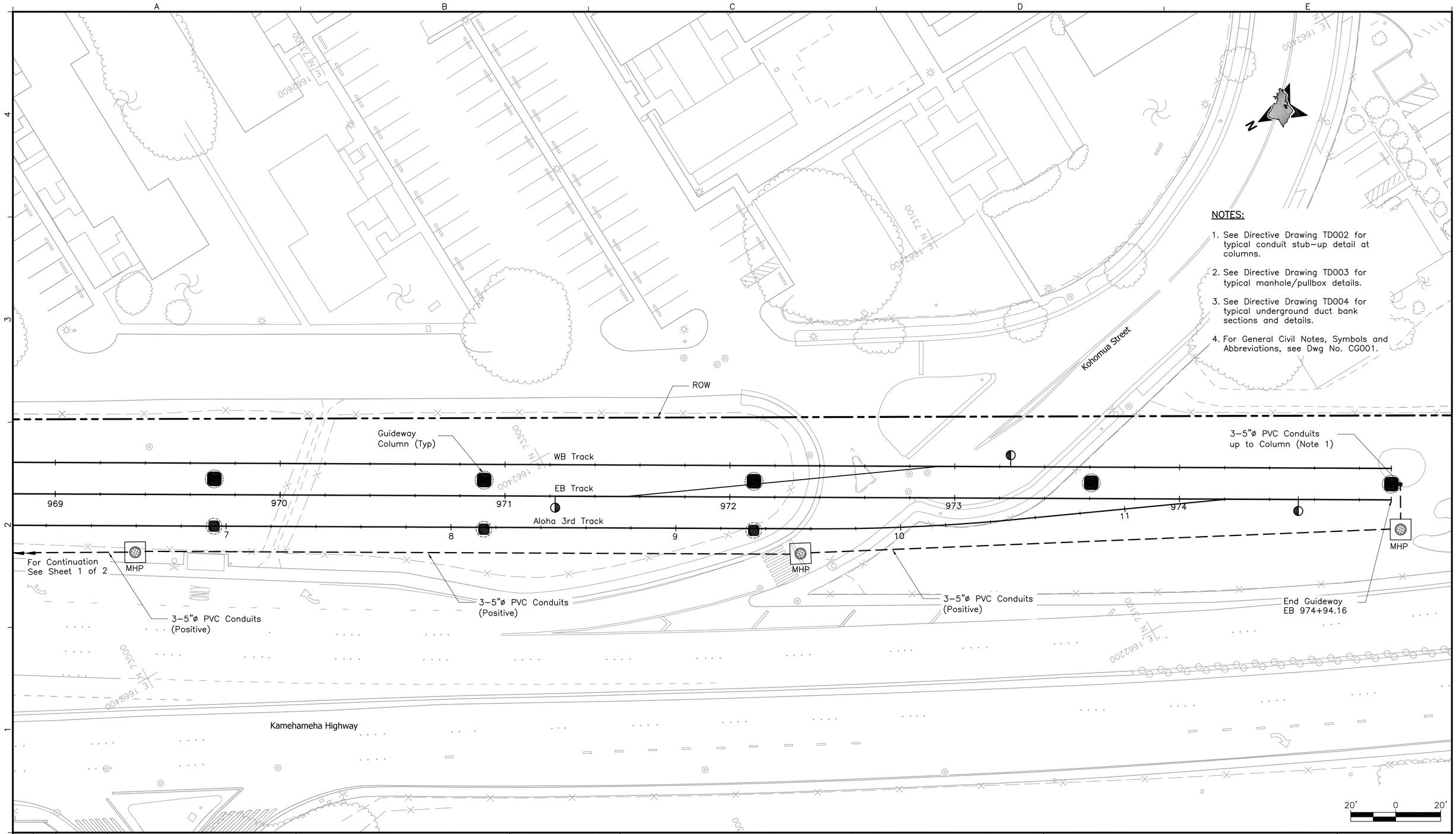
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

SYSTEMS SITE PLAN
SITE # 24

SHEET 1 OF 2

Contract No.: DB–320
CADD File: KHDB–B10–RP105
Drawing No: RP105
Rev. A
Scale: 1"=20"
Page No. 93 of 265

2010–03–11 1:06 PM K:\CADD\16 Communications\KHDB–B10–RP105.dwg



NOTES:

1. See Directive Drawing TD002 for typical conduit stub–up detail at columns.
2. See Directive Drawing TD003 for typical manhole/pullbox details.
3. See Directive Drawing TD004 for typical underground duct bank sections and details.
4. For General Civil Notes, Symbols and Abbreviations, see Dwg No. CG001.

Rev	By	Date	Description
A	AB	03–19–10	Issued For Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Gobelle
Drawn: C Jamison
Checked: L Mayola
Approved: A Borst
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIJG-BUILD

SYSTEMS SITE PLAN
SITE # 24

SHEET 2 OF 2

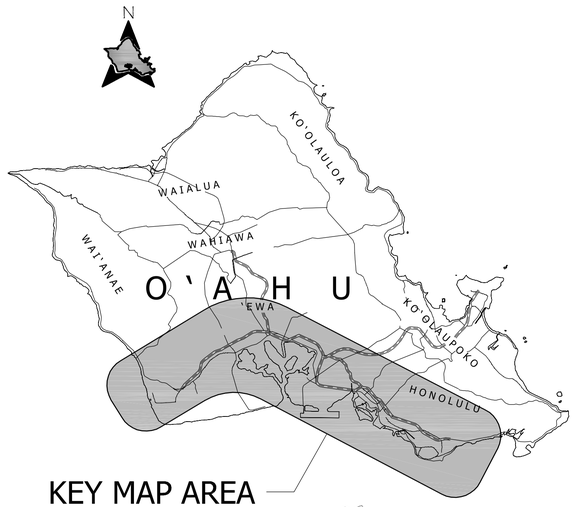
Contract No.: DB–320
CADD File: KHDB–B10–RP106
Drawing No: RP106
Rev. A
Scale: 1"=20"
Page No. 94 of 265

2010–03–11 3:00 PM K:\CADD\16 Communications\KHDB–B10–RP106.dwg

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

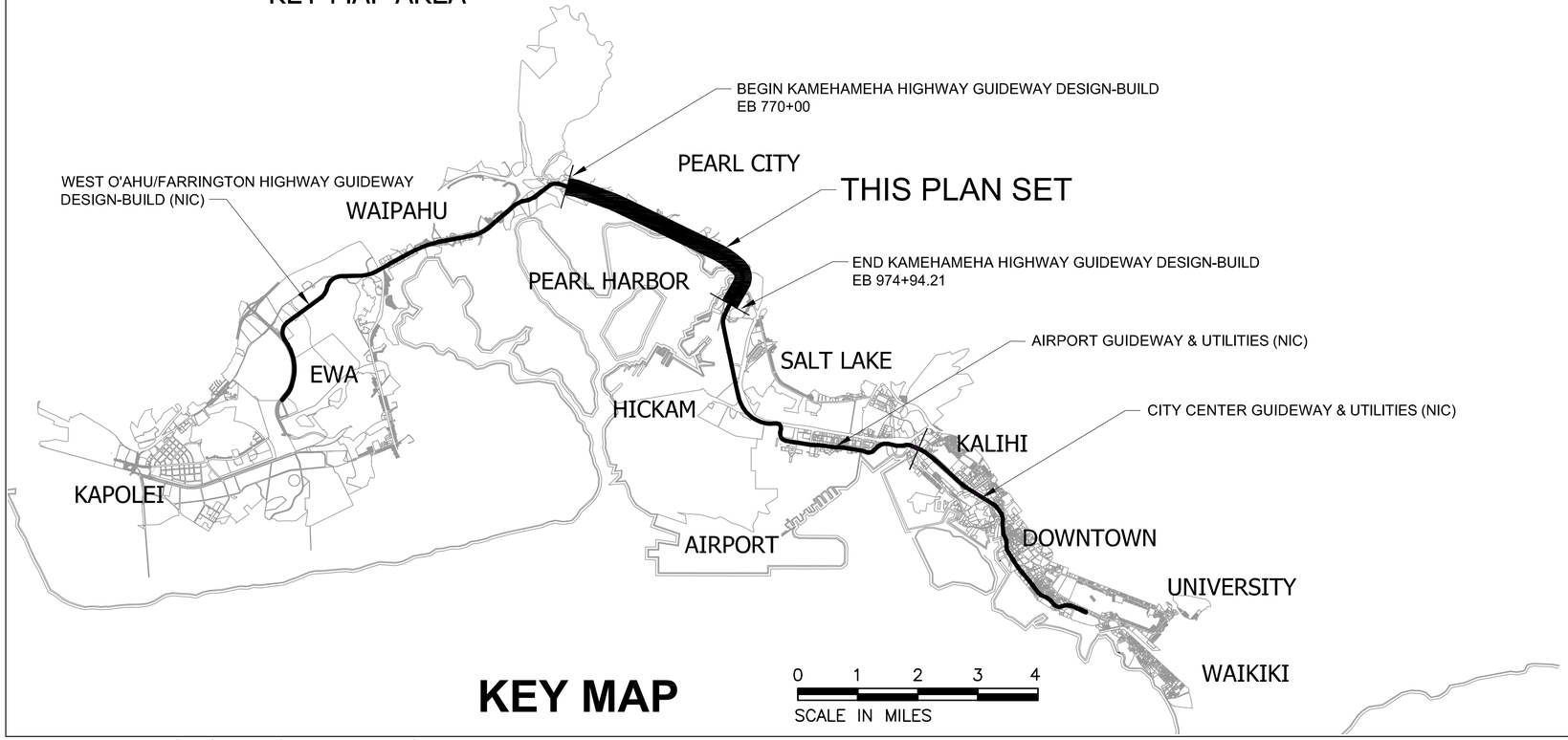
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

VOLUME 2 - UTILITIES



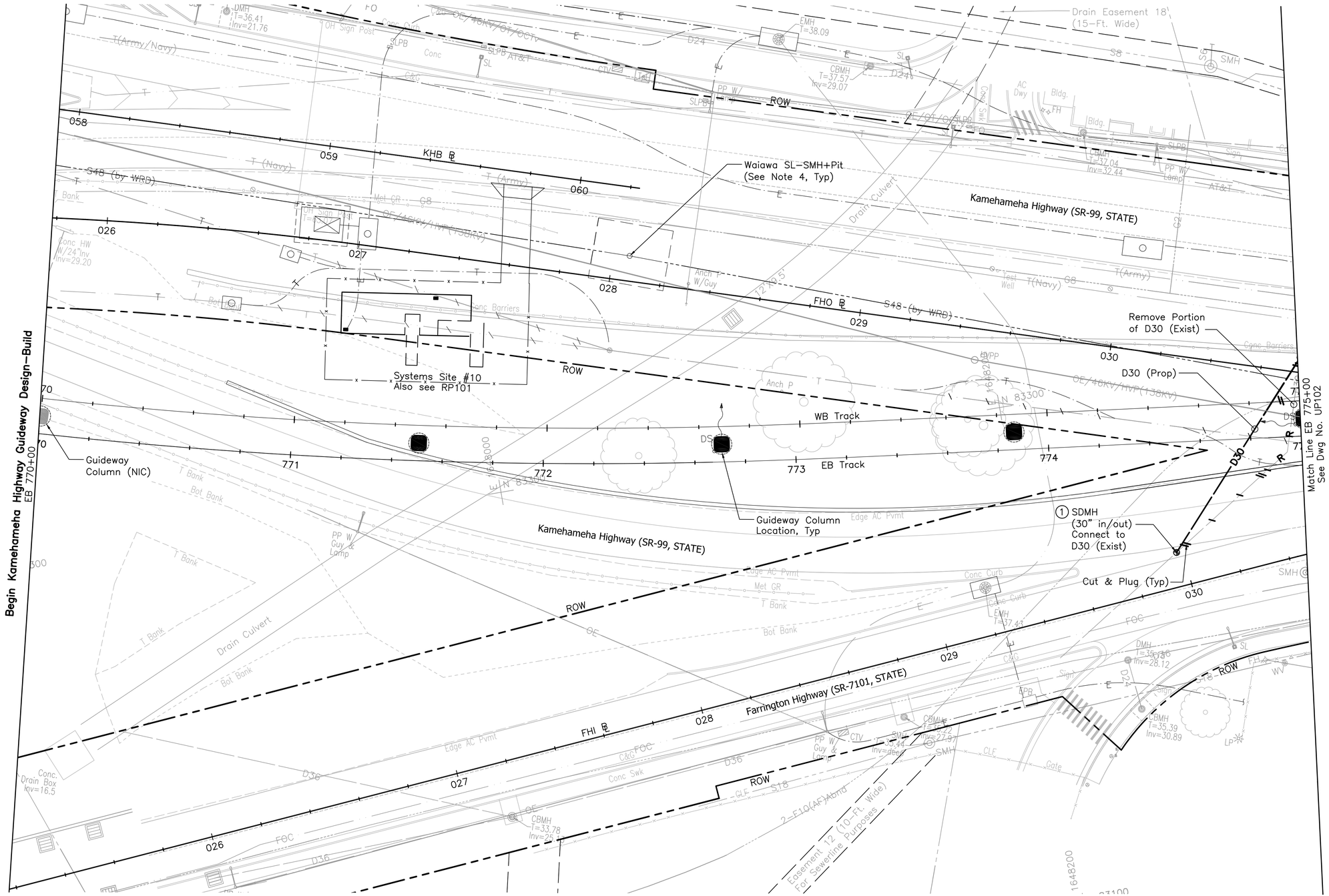
City and County of Honolulu
Department of Transportation Services

Rapid Transit Division



KEY MAP

2010-03-11 7:12 AM K:\CADD\02 General\SDB – Kam Hway DB\KHDB-A02-GN002-Vol2.dwg



N

NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase
4. Waiawa Sewerline (SMH+PIT and S48) being proposed by Waiawa Ridge Development (WRD). Coordinate to avoid potential conflicts during the final design phase.

DRAINAGE CONSTRUCTION NOTES:

1. Construct Storm Drain Manhole, Type A per HDOT Std. Plan No. H–03

20' 0' 20'

Rev	By	Date	Description
A	JY	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819–3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

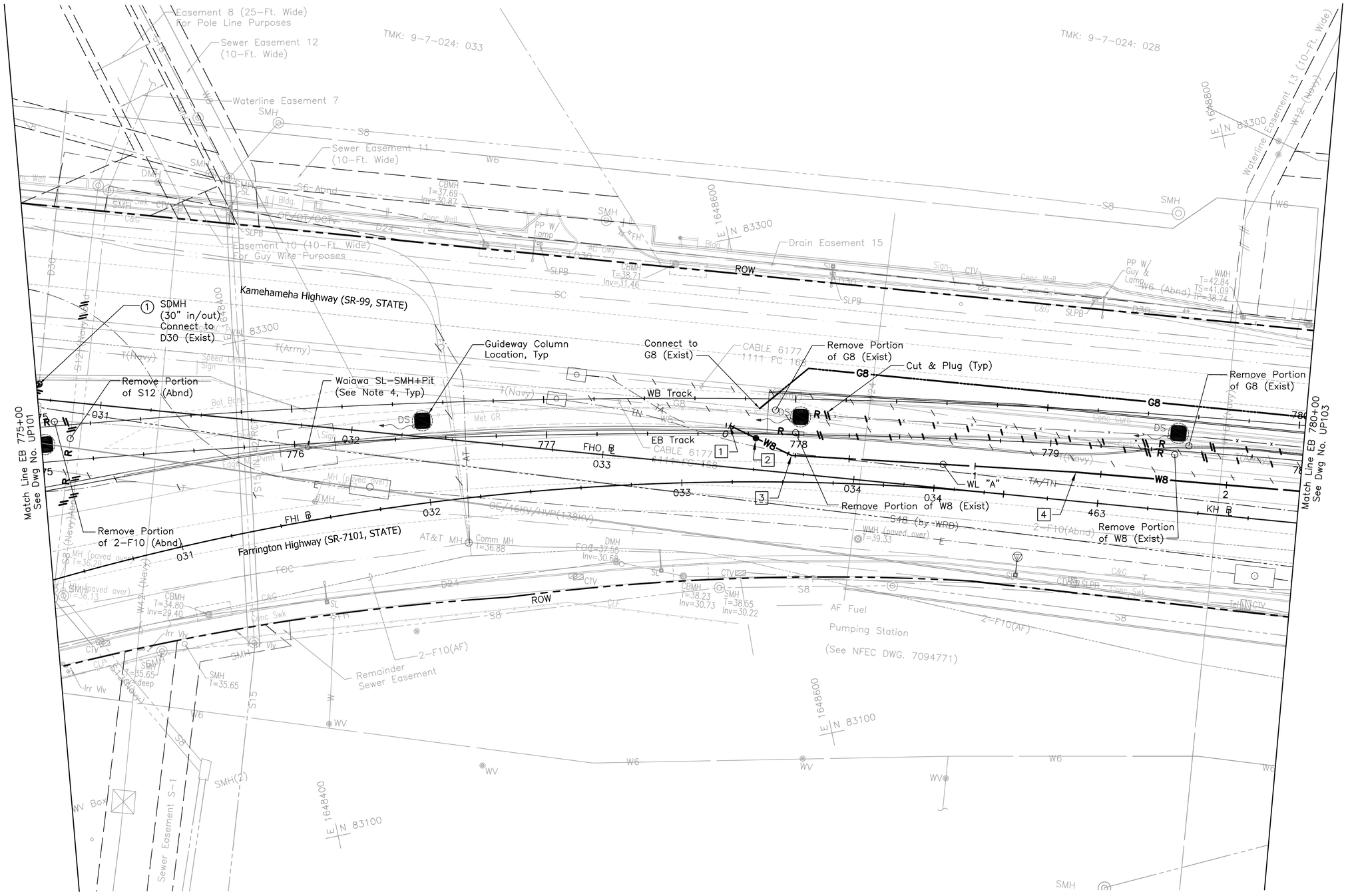
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 770+00 TO EB 775+00

Contract No.: DB–320
CADD File: KHDB–D03–UP101
Drawing No: UP101 Rev. A
Scale: 1"=20'
Page No. 48 of 186

2010–03–12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB–D03–UP101–UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase
4. Waiawa Sewerline (SMH+PIT and S48) being proposed by Waiawa Ridge Development (WRD). Coordinate to avoid potential conflicts during the final design phase.

DRAINAGE CONSTRUCTION NOTES:

(1) Construct Storm Drain Manhole, Type A per HDOT Std. Plan No. H-03

WATER CONSTRUCTION NOTES:

[1] STA 33+49.06 FHO ℄,
O/S 16.42' Lt.
=0+00 WL "A"
Connect to W8 (Exist)
1-8" 11/16 Bend (H), D.I.
1-Conc Block w/ Structural Struts
1-8" Sleeve, 15' Long
8± LF 8" D.I. Pipe, Cl. 52
Temp for Testing:
1-8" Cap w/ 2-1/2" C.O.
1-Conc Block

[2] STA 33+59.77 FHO ℄,
O/S 12.47' Lt.
=0+11.41 WL "A"
1-8"GV, 150#
1-Valve Box

[3] STA 33+74.50 KH ℄,
O/S 7.03' Lt.
=0+27.11 WL "A"
1-8" 11/16 Bend (H), D.I.
1-Conc Block

[4] STA 463+09.71 KH ℄,
O/S 11.47' Lt.
=1+40.14 WL "A"
Deflect W8 2°

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 - Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning - Engineering - Environmental Services - Photogrammetry - Surveying - Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

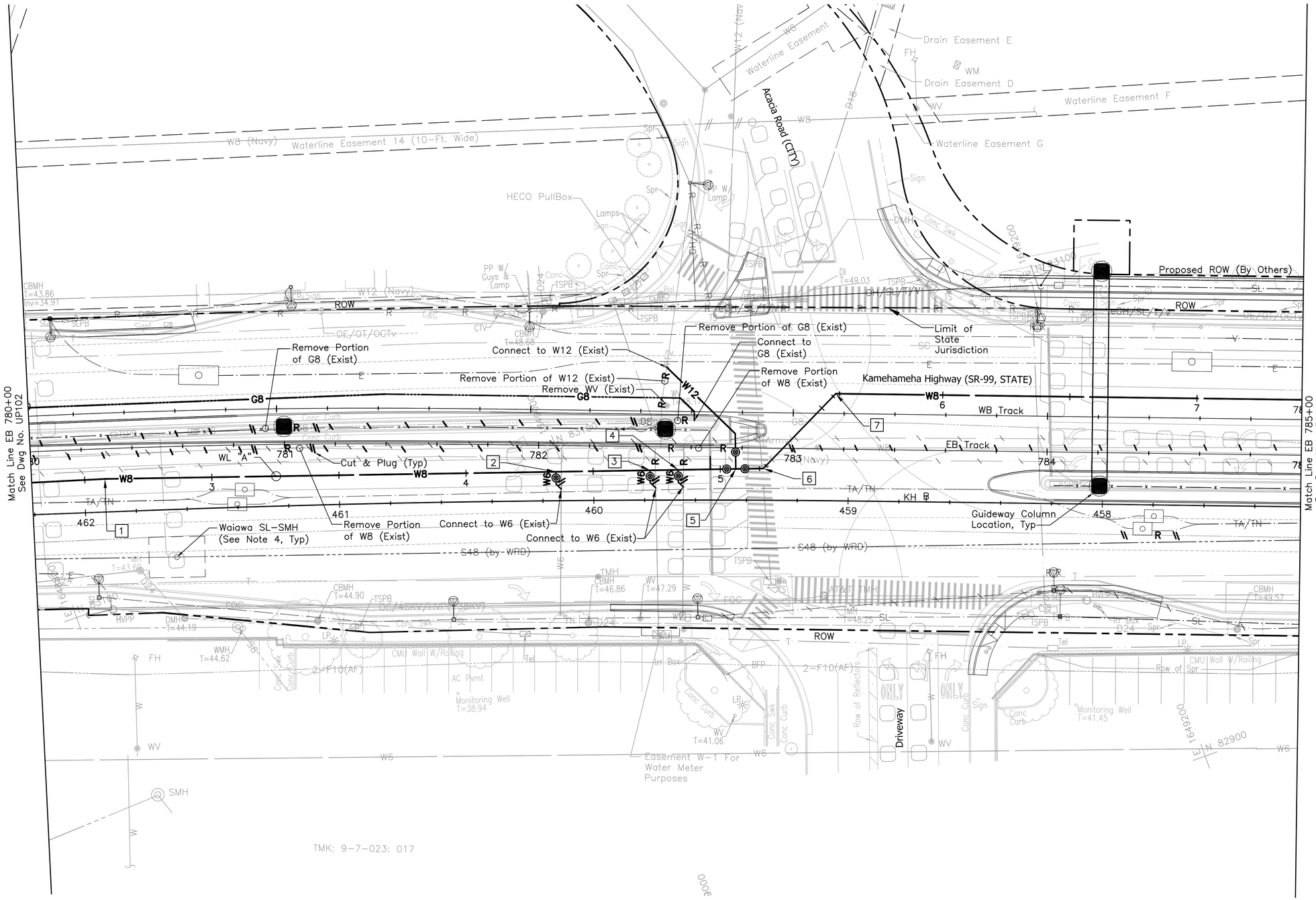
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 775+00 TO EB 780+00

Contract No.: DB-320
CADD File: KHDB-D03-UP102
Drawing No: UP102 Rev. A
Scale: 1"=20'
Page No. 49 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase
4. Waiawa Sewerline (SMH+PIT and S48) being proposed by Waiawa Ridge Development (WRD). Coordinate to avoid potential conflicts during the final design phase.

WATER CONSTRUCTION NOTES:

1. STA 461+91.87 KH ℄, O/S 13.02' Lt.
   =2+57.97 WL "A"
   Deflect W8 2°
2. STA 460+14.81 KH ℄, O/S 11.39' Rt.
   =4+35.36 WL "A"
   1-8"x6" Tee
   1-Conc. Block
   1-6" GV, 150#
   1-Valve Box
3. STA 459+77.88 KH ℄, O/S 11.74' Rt.
   =4+72.38 WL "A"
   1-8"x6" Tee
   1-Conc. Block
   1-6" GV, 150#
   1-Valve Box
4. STA 459+66.83 KH ℄, O/S 11.90' Rt.
   =4+83.45 WL "A"
   1-8"x6" Tee
   1-Conc. Block
   1-6" GV, 150#
   1-Valve Box
5. STA 459+44.20 KH ℄, O/S 12.28' Rt.
   =5+06.13 WL "A"
   1-8"x12" Tee
   1-Conc. Block
   2-8" GV, 150#
   1-12" GV, 150#
   3-WV Box
6. STA 459+33.40 KH ℄, O/S 12.49' Rt.
   =5+16.95 WL "A"
   1-8" ⅛ Bend (H), D.I.
   1-Conc Block
7. STA 459+05.25 KH ℄, O/S 42.13' Rt.
   =5+57.92 WL "A"
   1-8" ⅛ Bend (H), D.I.
   1-Conc Block

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

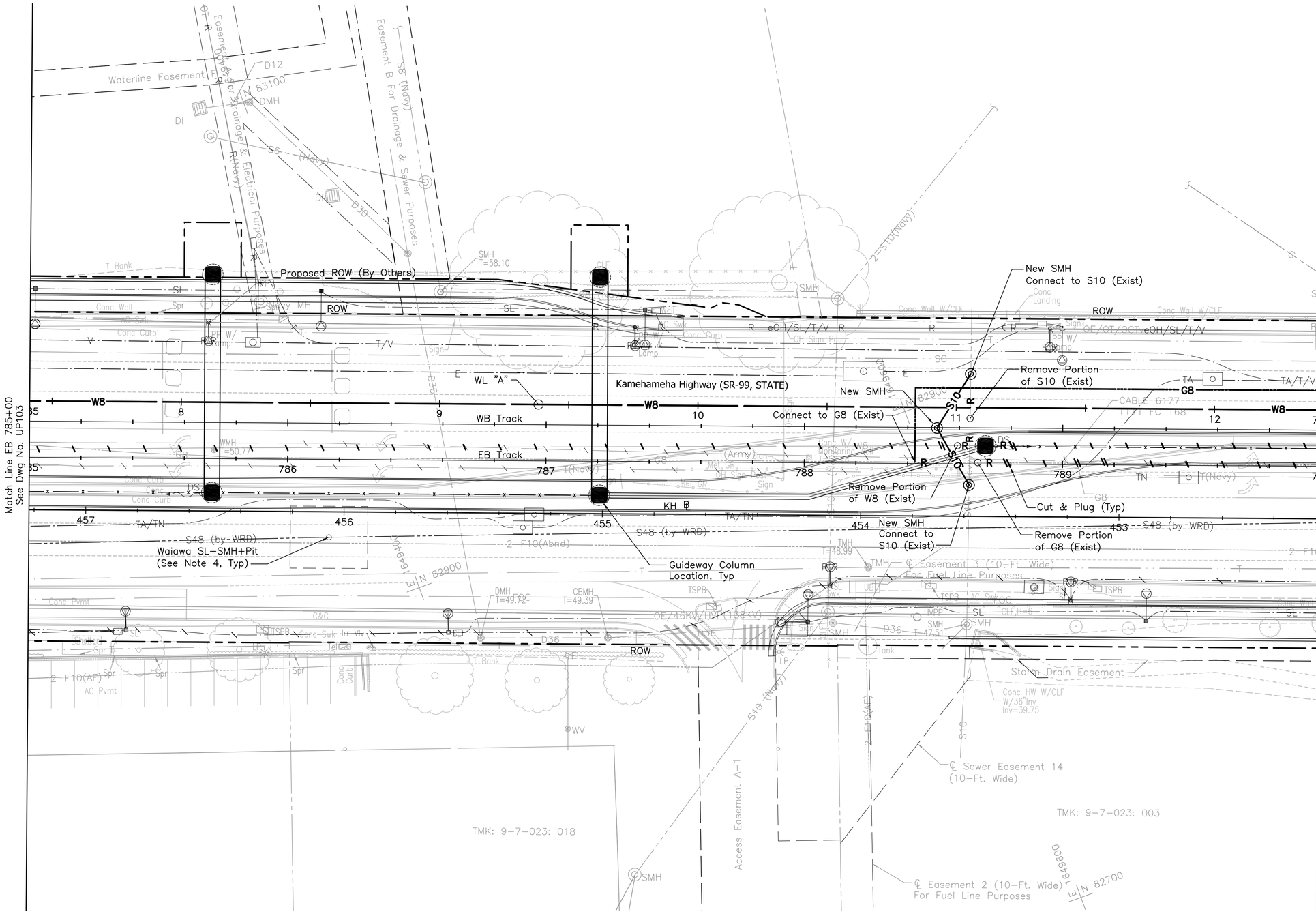
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 780+00 TO EB 785+00

Contract No.: DB-320
CADD File: KHDB-D03-UP103
Drawing No: UP103 Rev. A
Scale: 1"=20'
Page No. 50 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase
4. Waiawa Sewerline (SMH+PIT and S48) being proposed by Waiawa Ridge Development (WRD). Coordinate to avoid potential conflicts during the final design phase.

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

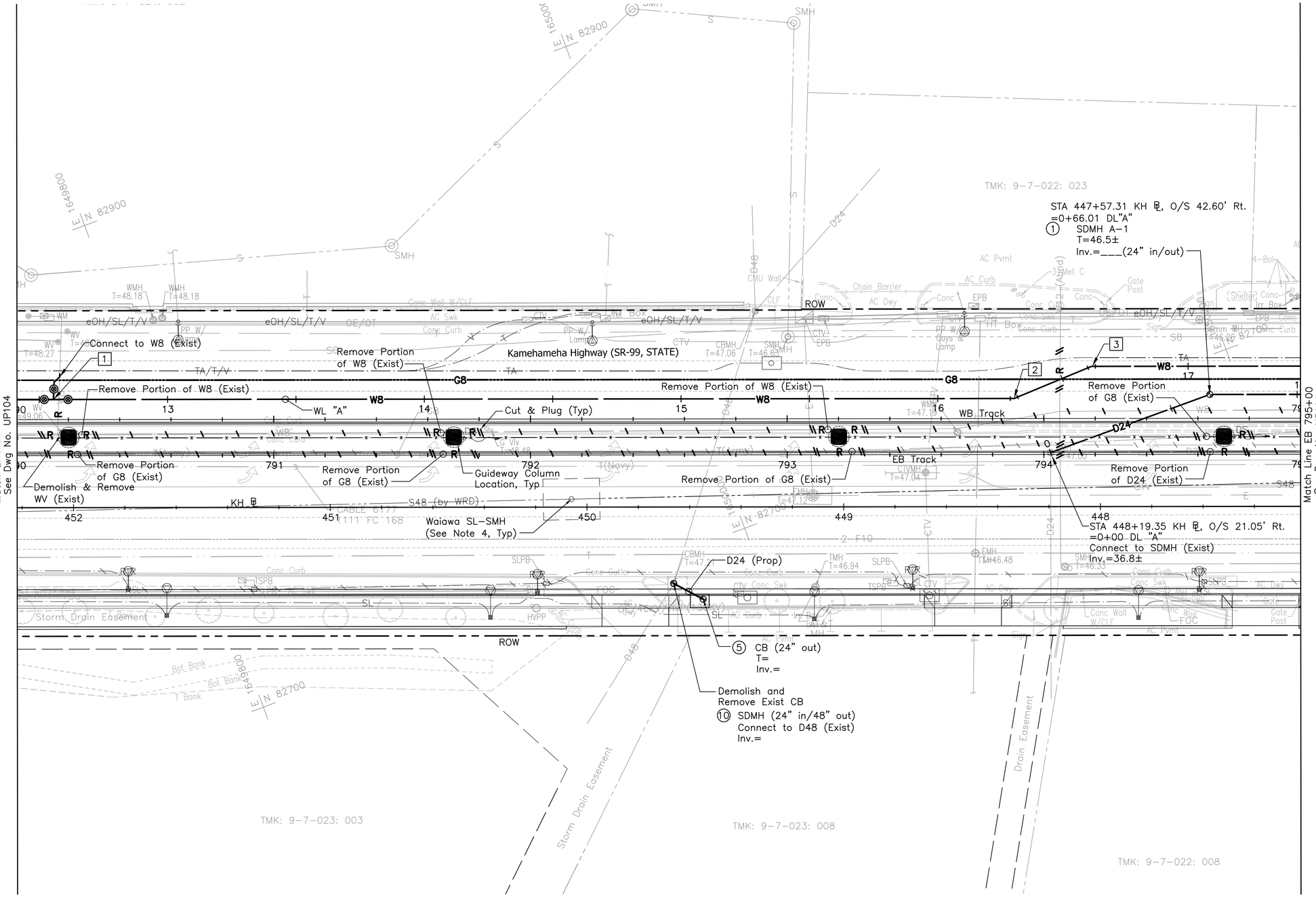
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 785+00 TO EB 790+00

Contract No.: DB-320
CADD File: KHDB-D03-UP104
Drawing No: UP104 Rev. A
Scale: 1"=20'
Page No. 51 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase
4. Waiawa Sewerline (SMH+PIT and S48) being proposed by Waiawa Ridge Development (WRD). Coordinate to avoid potential conflicts during the final design phase.

DRAINAGE CONSTRUCTION NOTES:

(1) Construct Storm Drain Manhole, Type A per HDOT Std. Plan No. H-03

(5) Construct Catch Basin, Type D per HDOT Std. Plan No. H-01D

(10) Construct Storm Drain Manhole, Type C per HDOT Std. Plan No. H-03

WATER CONSTRUCTION NOTES:

[1] STA 452+07.78 KH ℄, O/S 42.10' Rt.
=12+55.53 WL "A"
1-8" Tee
1-Conc. Block
3-8" GV, 150#
3-Valve Box

[2] STA 448+33.59 KH ℄, O/S 42.10' Rt.
=16+29.72 WL "A"
1-8" 1/16 Bend (H), D.I.
1-Conc Block

[3] STA 448+03.10 KH ℄, O/S 54.60' Rt.
=16+62.67 WL "A"
1-8" 1/16 Bend (H), D.I.
1-Conc Block

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

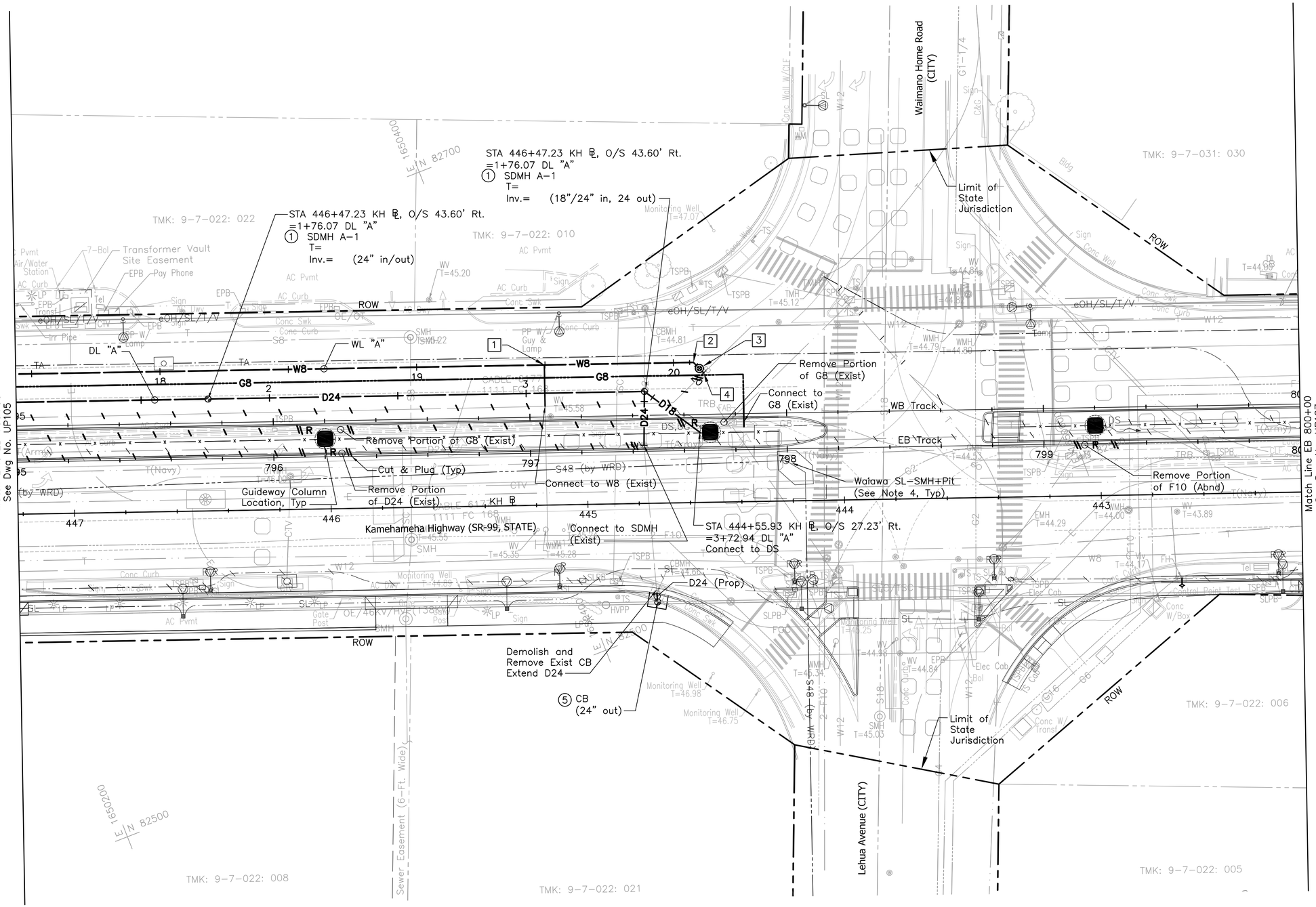
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 790+00 TO EB 795+00

Contract No.: DB-320
CADD File: KHDB-D03-UP105
Drawing No: UP105 Rev. A
Scale: 1"=20'
Page No. 52 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase
4. Waiawa Sewerline (SMH+PIT and S48) being proposed by Waiawa Ridge Development (WRD). Coordinate to avoid potential conflicts during the final design phase.

DRAINAGE CONSTRUCTION NOTES:

① Construct Storm Drain Manhole, Type A per HDOT Std. Plan No. H-03

⑤ Construct Catch Basin, Type D per HDOT Std. Plan No. H-01D

WATER CONSTRUCTION NOTES:

1. STA 445+16.03 KH ℄, O/S 54.60' Rt.
   =19+49.74 WL "A"
   Connect to W8 (Exist)
   1-8" Tee
   1-Conc Block
2. STA 444+57.95 KH ℄, O/S 54.60' Rt.
   =20+07.85 WL "A"
   1-8" ⅛ Bend (H) D.I.
   1-Conc Block
3. STA 444+55.68 KH ℄, O/S 52.20' Rt.
   =20+11.12 WL "A"
   1-8" GV, 150#
   1-Valve Box
4. STA 444+54.02 KH ℄, O/S 50.44' Rt.
   =20+13.47 WL "A"
   Connect to W8 (Exist)
   1-8" GV, 150#
   1-Valve Box
   1-8" ¼ Bend (H)
   1-Conc Block w/ Structural Struts
   1-8" Sleeve, 15" Long
   8± LF 8" D.I. Pipe, Cl. 52
   Temp for Testing:
   1-8" Cap w/ 2-1/2" C.O.
   1-Conc Block

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

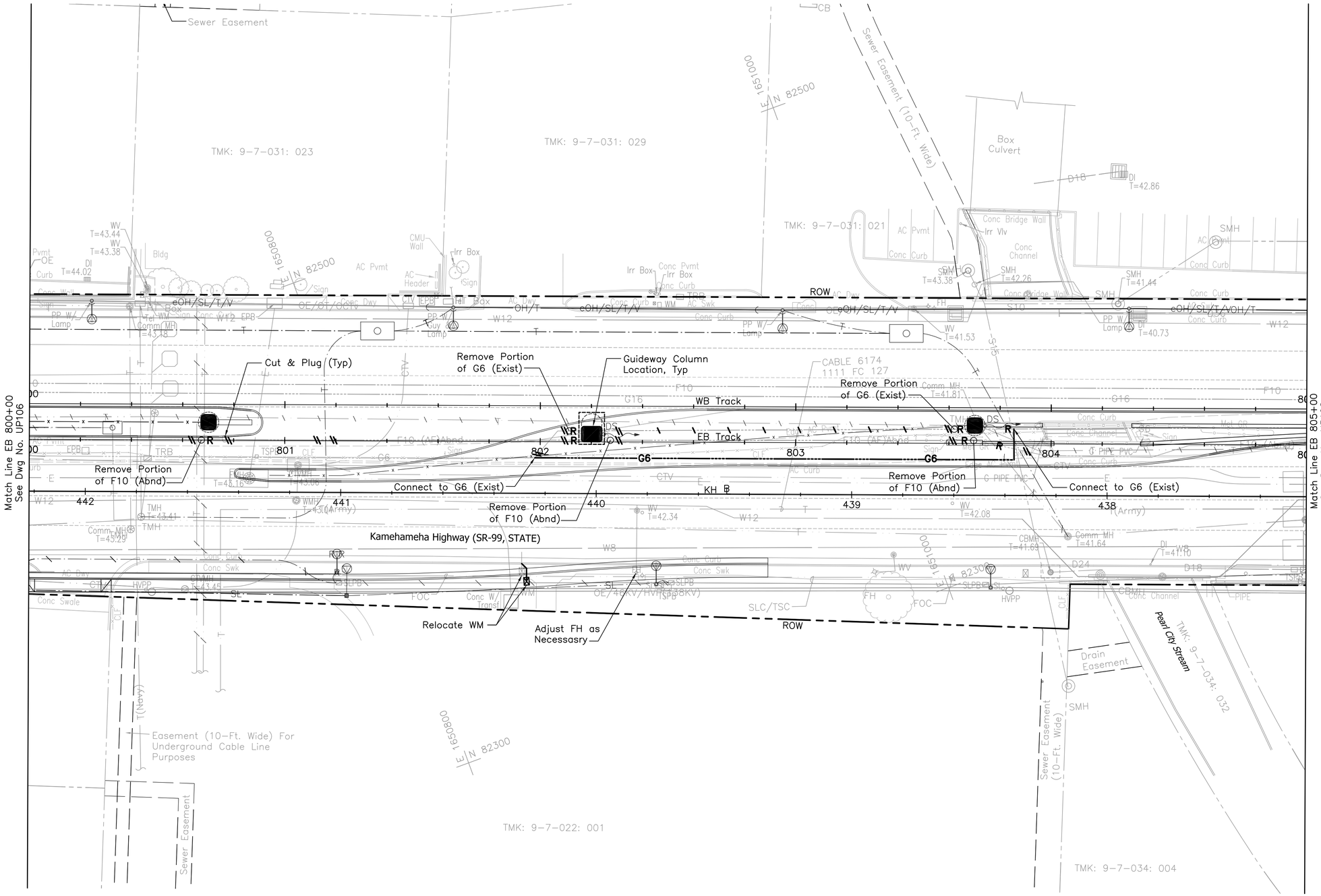
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 795+00 TO EB 800+00

Contract No.: DB-320
CADD File: KHDB-D03-UP106
Drawing No: UP106 Rev. A
Scale: 1"=20'
Page No. 53 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF, 1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION, Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management, 808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

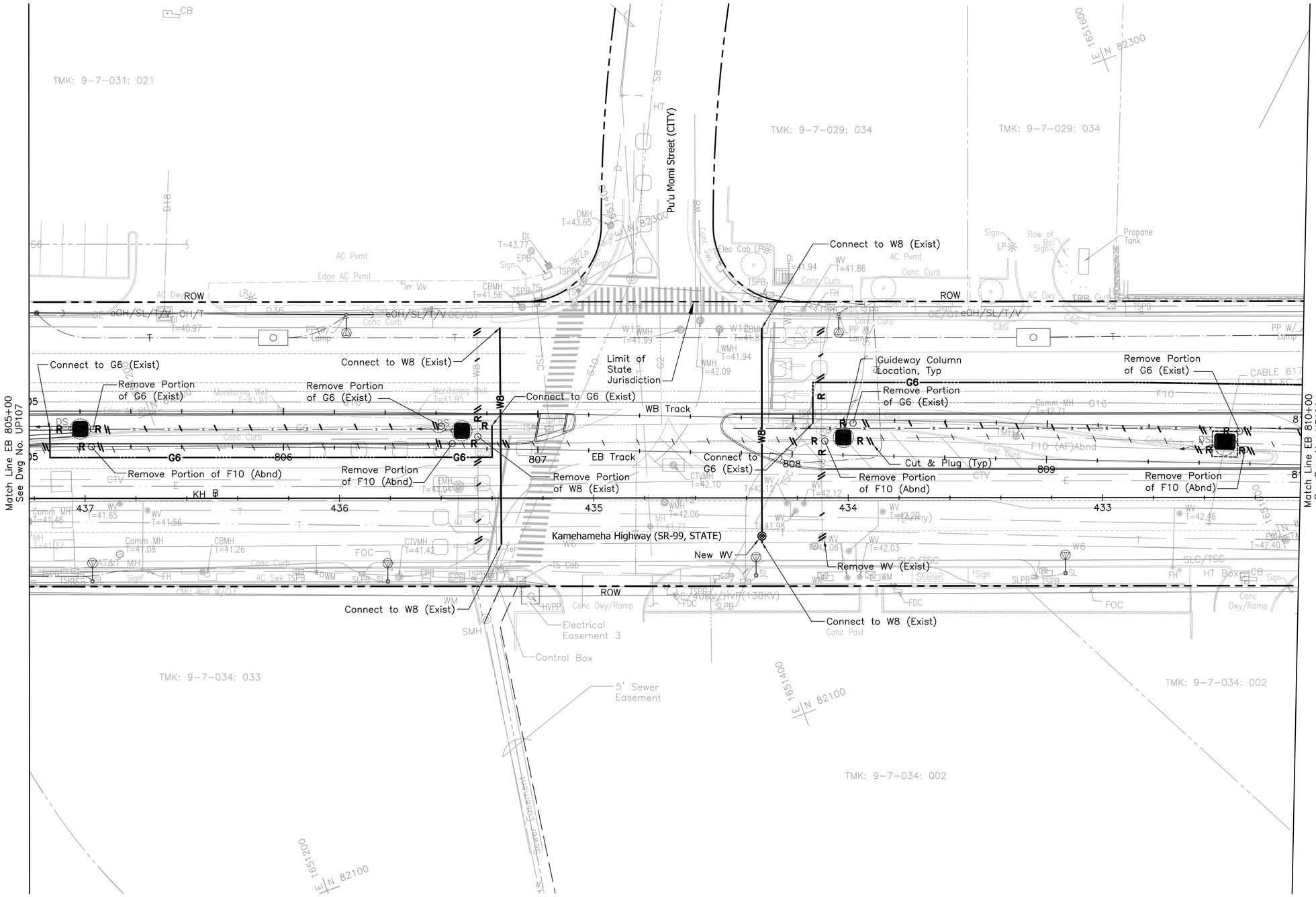
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 800+00 TO EB 805+00

Contract No.: DB-320
CADD File: KHDB-D03-UP107
Drawing No: UP107 Rev. A
Scale: 1"=20'
Page No. 54 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

20' 0' 20'

Rev	By	Date	Description
A	JY	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819–3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

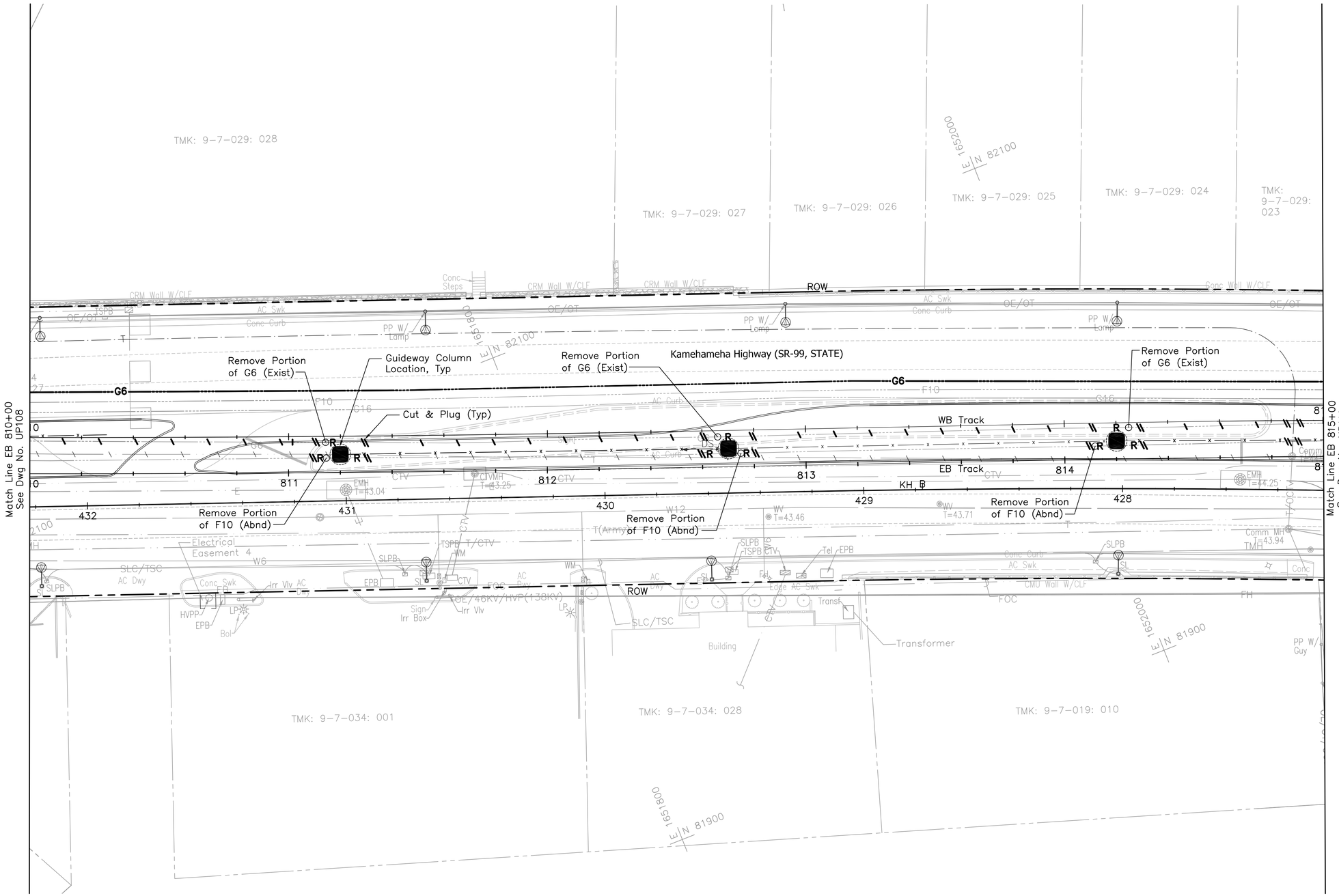
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 805+00 TO EB 810+00

Contract No.: DB–320
CADD File: KHDB–D03–UP108
Drawing No: UP108 Rev. A
Scale: 1"=20'
Page No. 55 of 186

2010–03–12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB–D03–UP101–UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

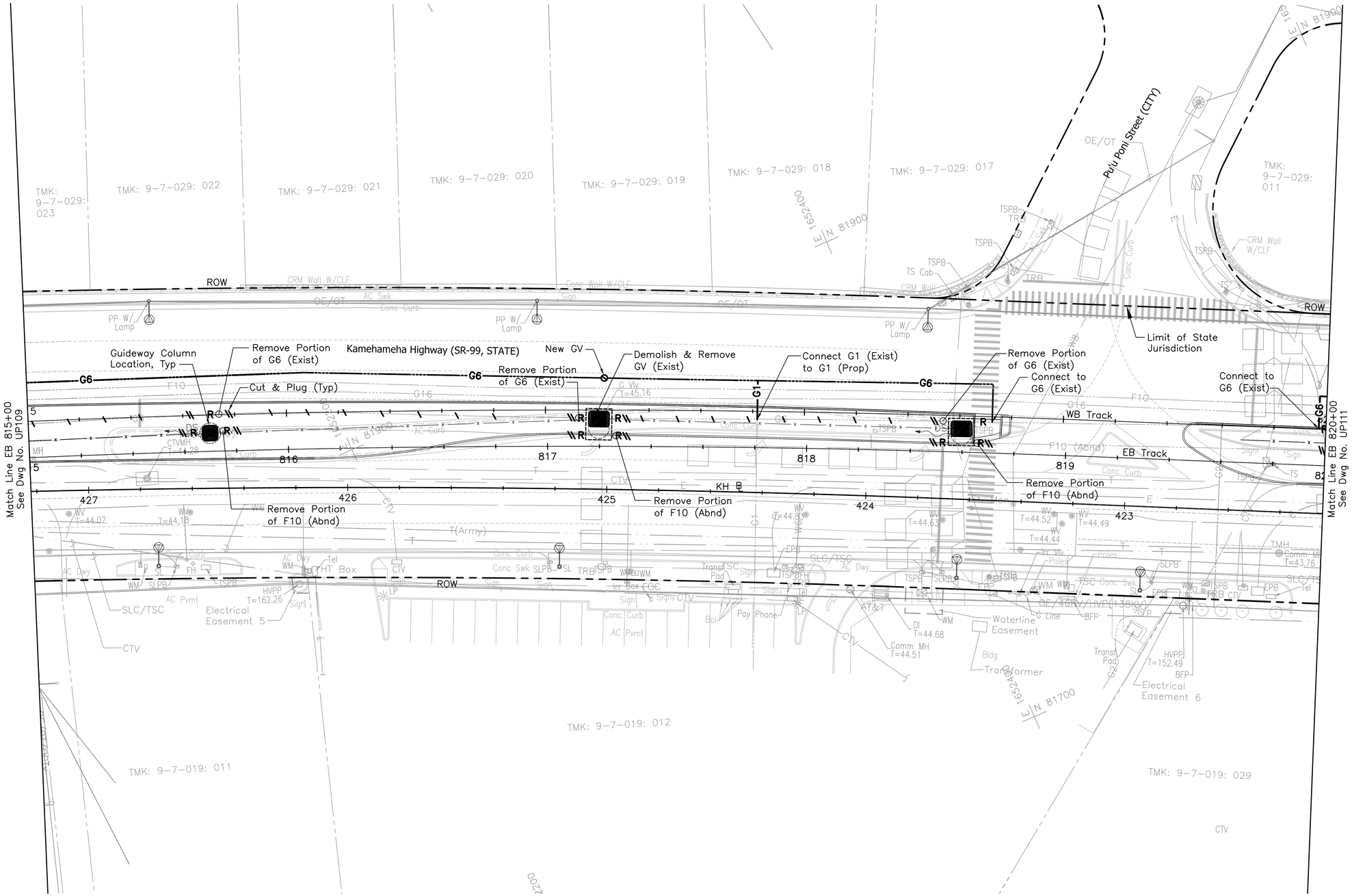
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 810+00 TO EB 815+00

Contract No.: DB-320
CADD File: KHDB-D03-UP109
Drawing No: UP109 Rev. A
Scale: 1"=20'
Page No. 56 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



N

NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

20' 0' 20'

Rev	By	Date	Description
A	JY	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819–3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

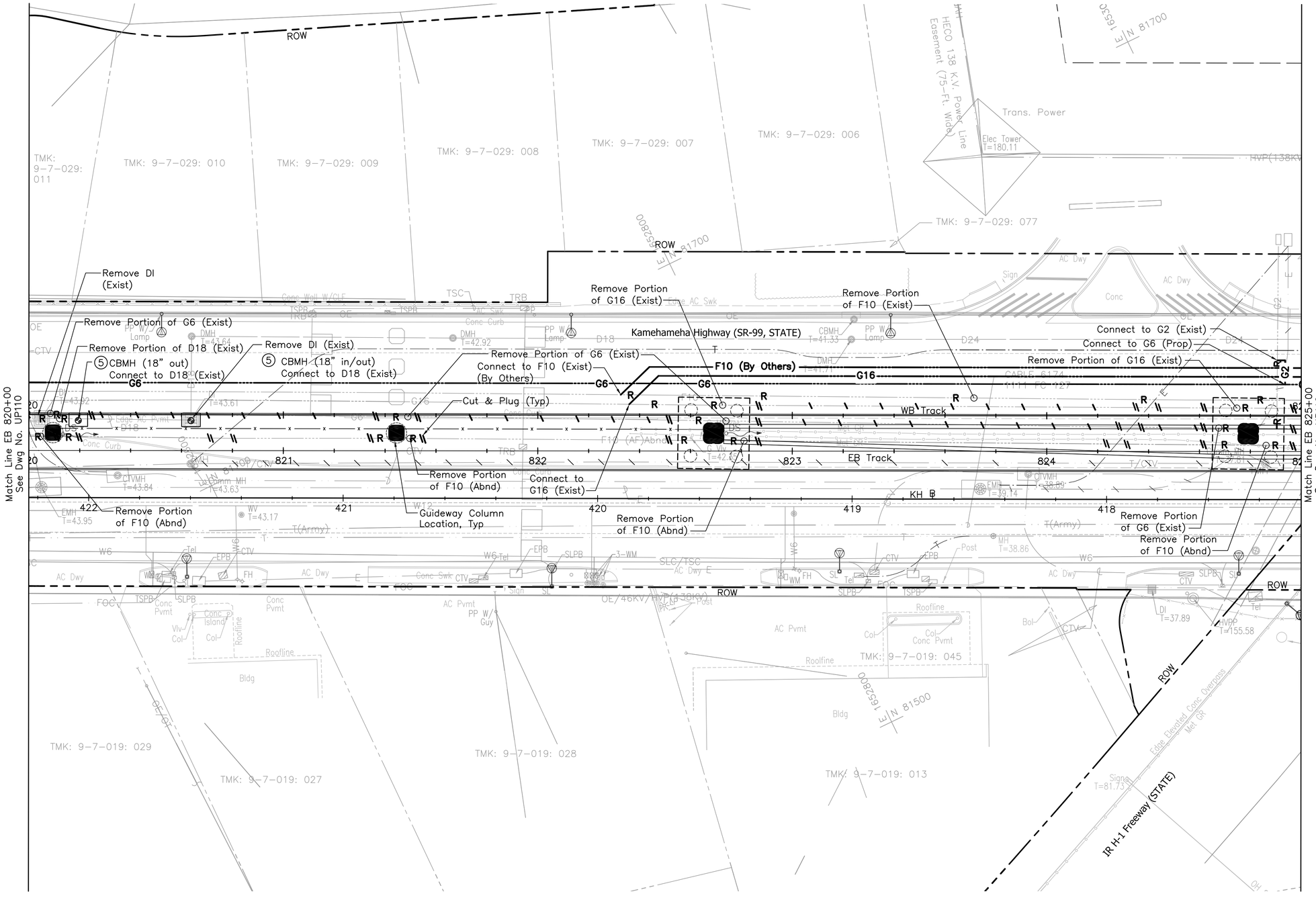
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 815+00 TO EB 820+00

Contract No.: DB–320
CADD File: KHDB–D03–UP110
Drawing No: UP110 Rev. A
Scale: 1"=20'
Page No. 57 of 186

2010–03–12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB–D03–UP101–UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

DRAINAGE CONSTRUCTION NOTES:

5 Construct Catch Basin, Type D per HDOT Std. Plan No. H-01D

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

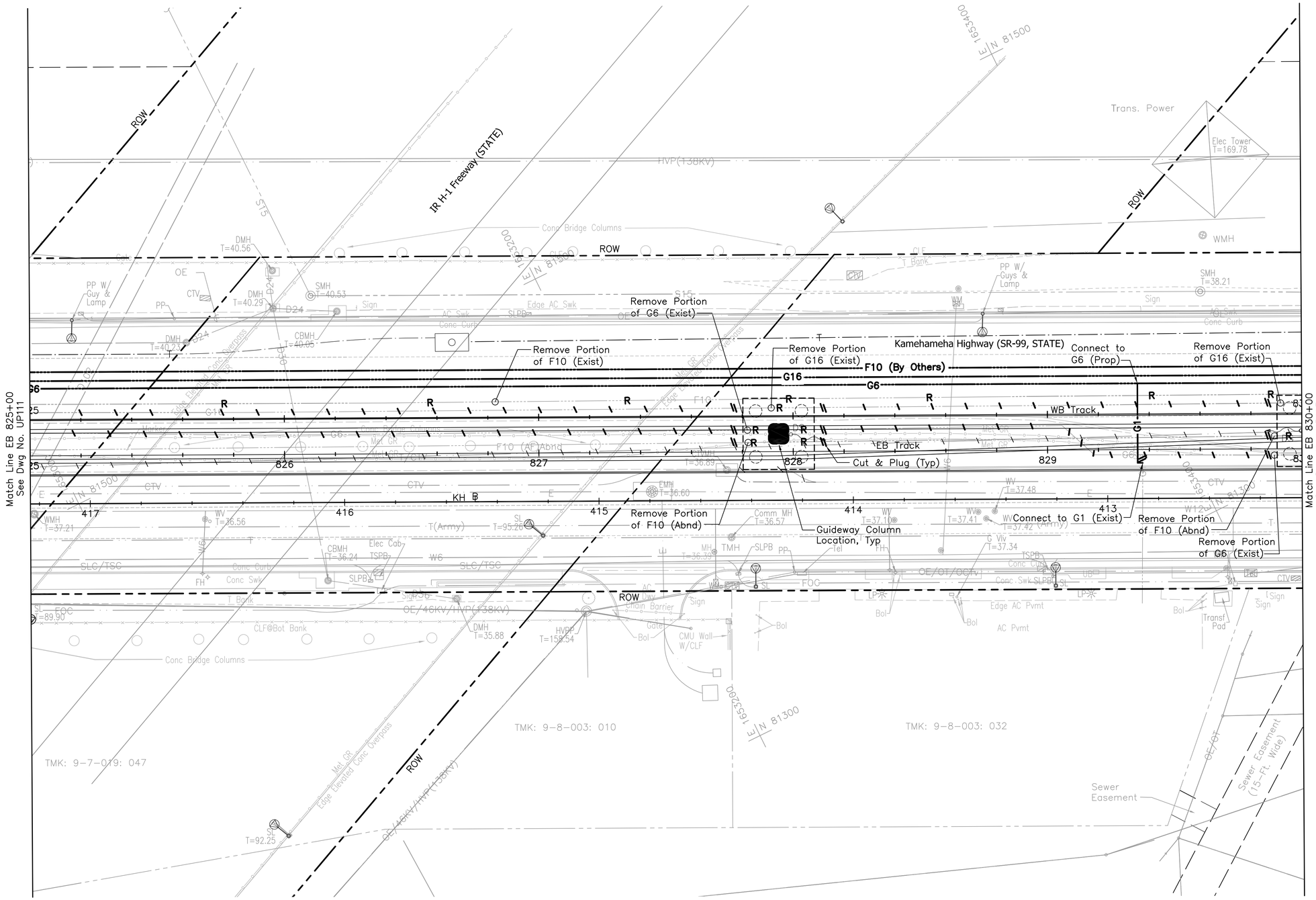
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 820+00 TO EB 825+00

Contract No.: DB-320
CADD File: KHDB-D03-UP111
Drawing No: UP111 Rev. A
Scale: 1"=20'
Page No. 58 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

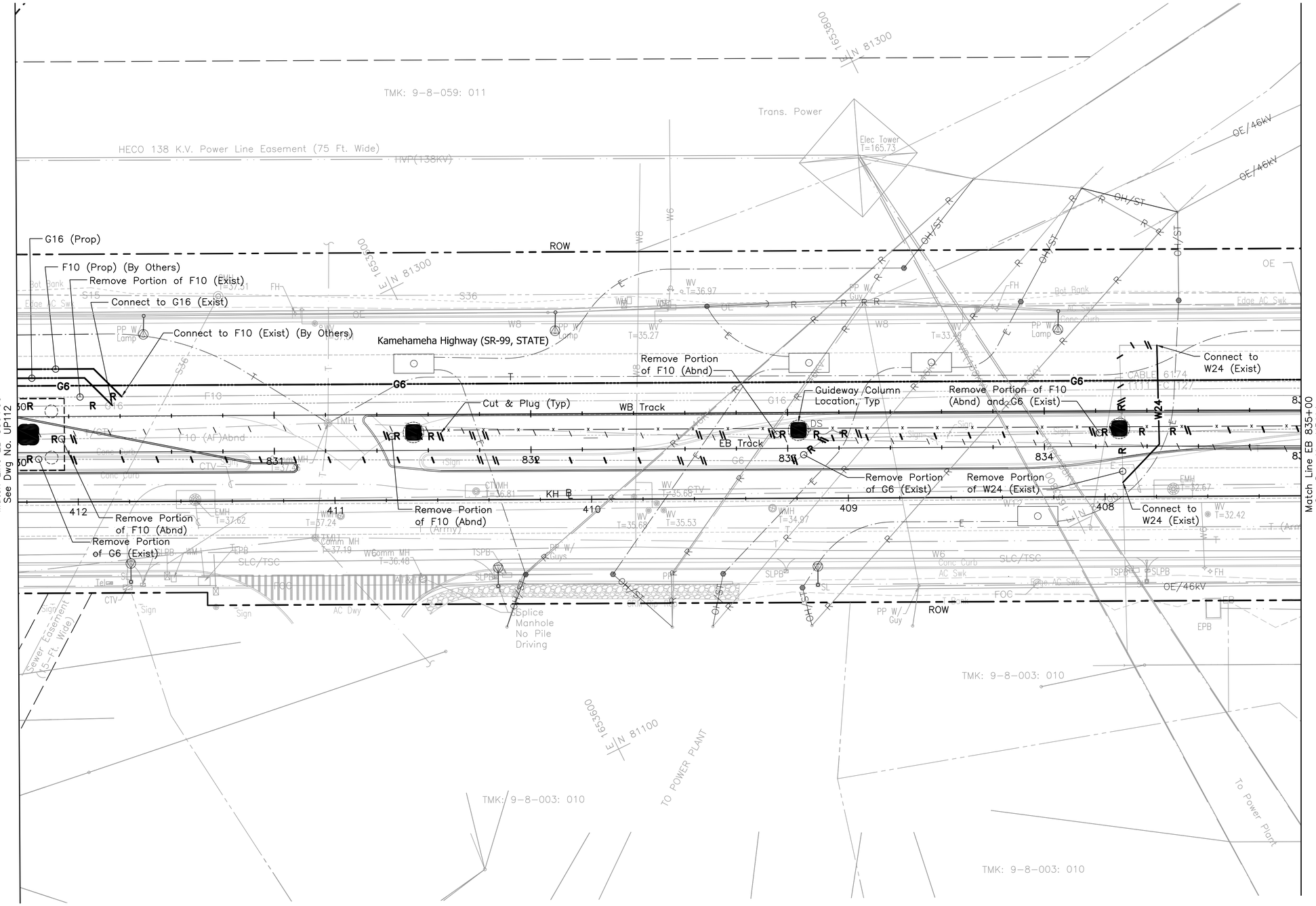
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 825+00 TO EB 830+00

Contract No.: DB-320
CADD File: KHDB-D03-UP112
Drawing No: UP112 Rev. A
Scale: 1"=20'
Page No. 59 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF, 1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION — Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management — 808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

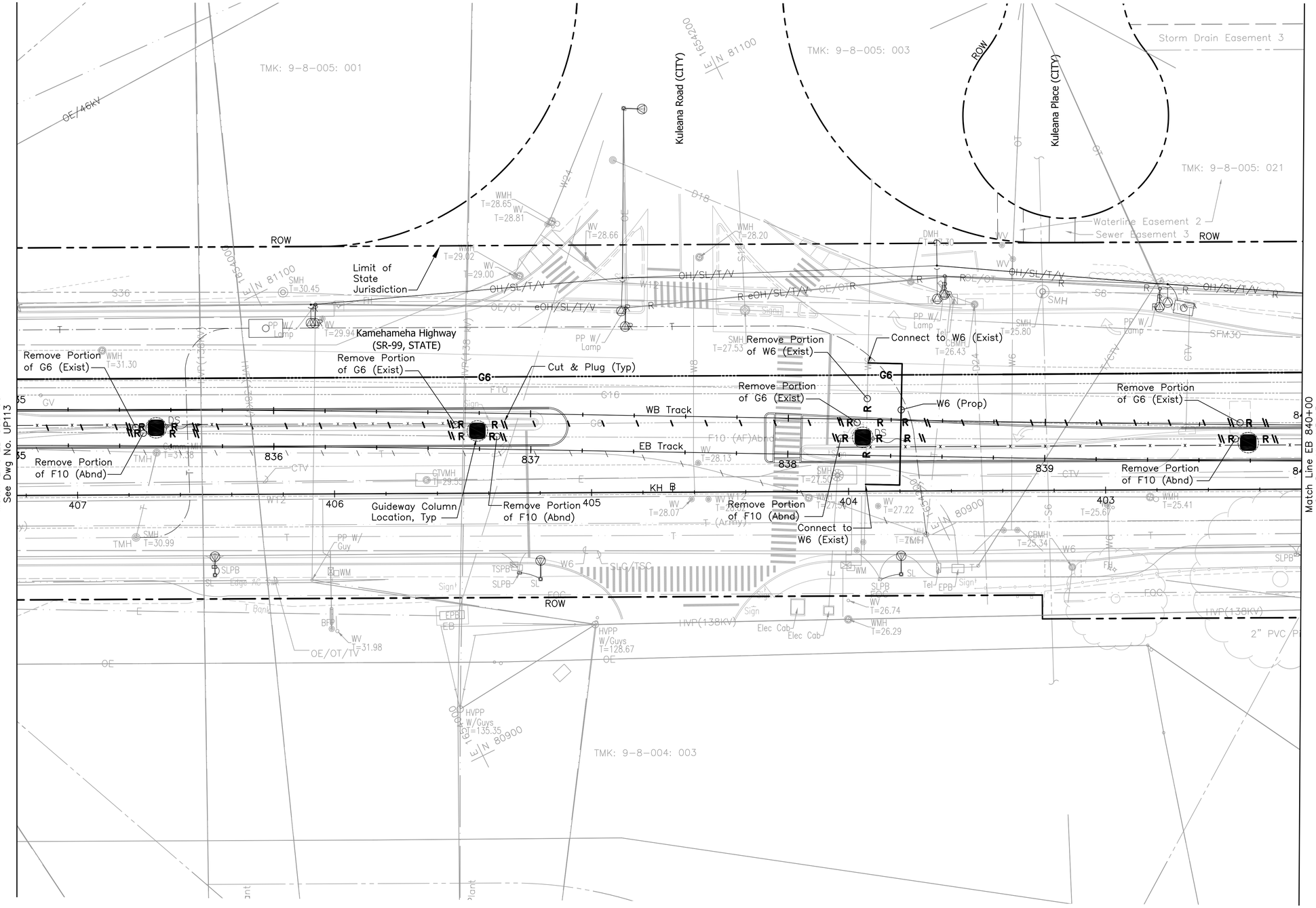
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 830+00 TO EB 835+00

Contract No.: DB-320
CADD File: KHDB-D03-UP113
Drawing No: UP113 Rev. A
Scale: 1"=20'
Page No. 60 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

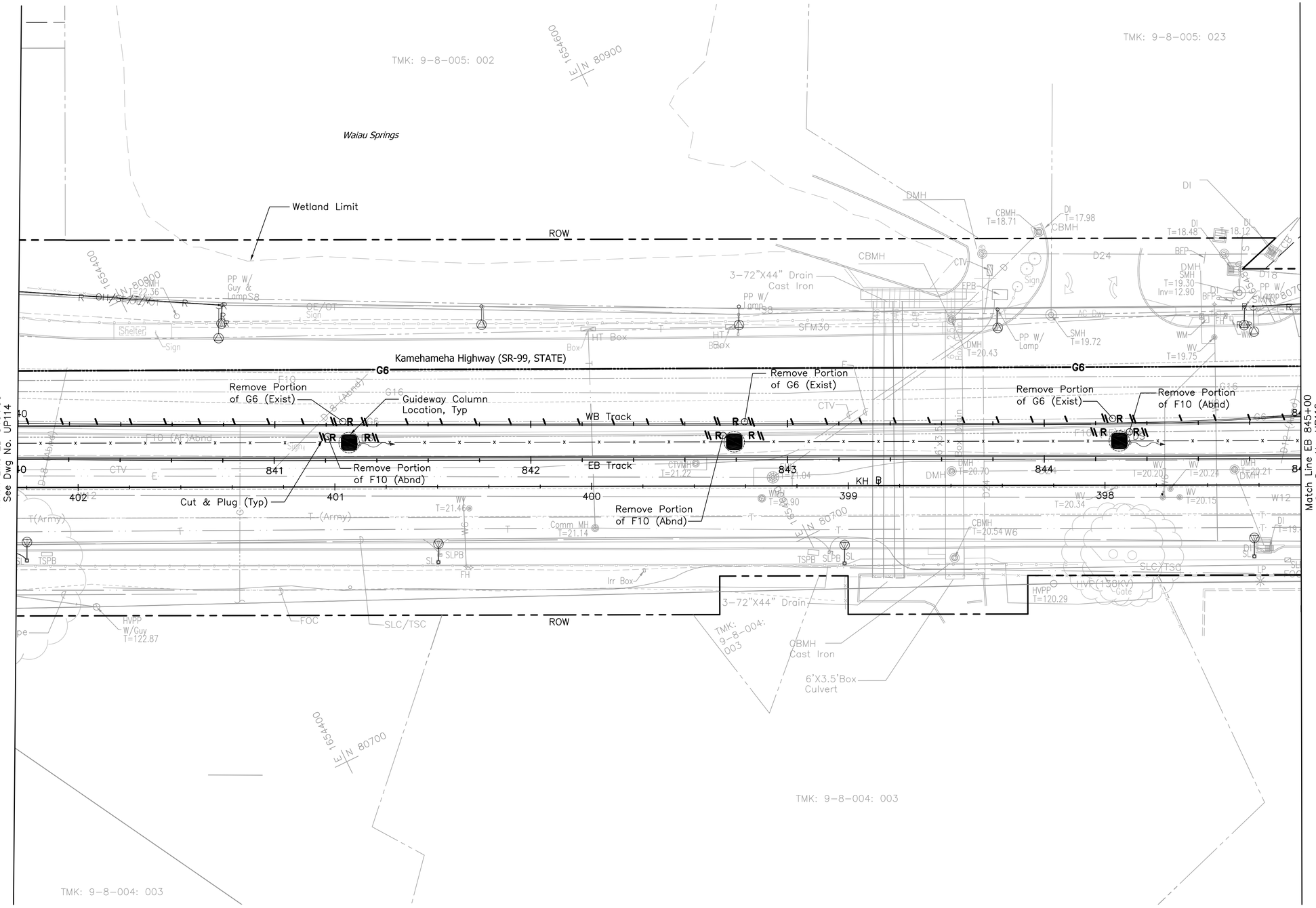
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 835+00 TO EB 840+00

Contract No.: DB-320
CADD File: KHDB-D03-UP114
Drawing No: UP114 Rev. A
Scale: 1"=20'
Page No. 61 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

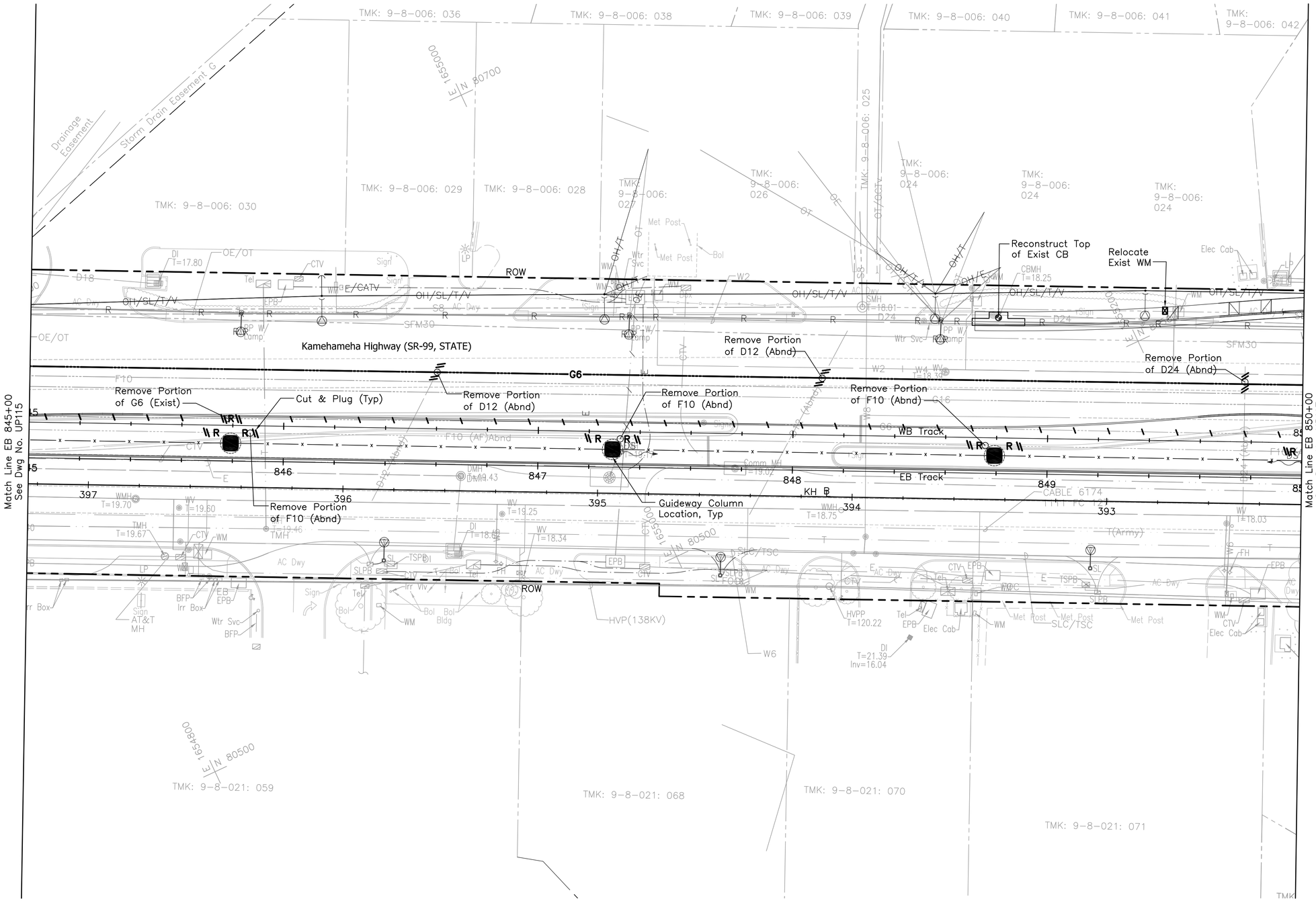
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 840+00 TO EB 845+00

Contract No.: DB-320
CADD File: KHDB-D03-UP115
Drawing No: UP115 Rev. A
Scale: 1"=20'
Page No. 62 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

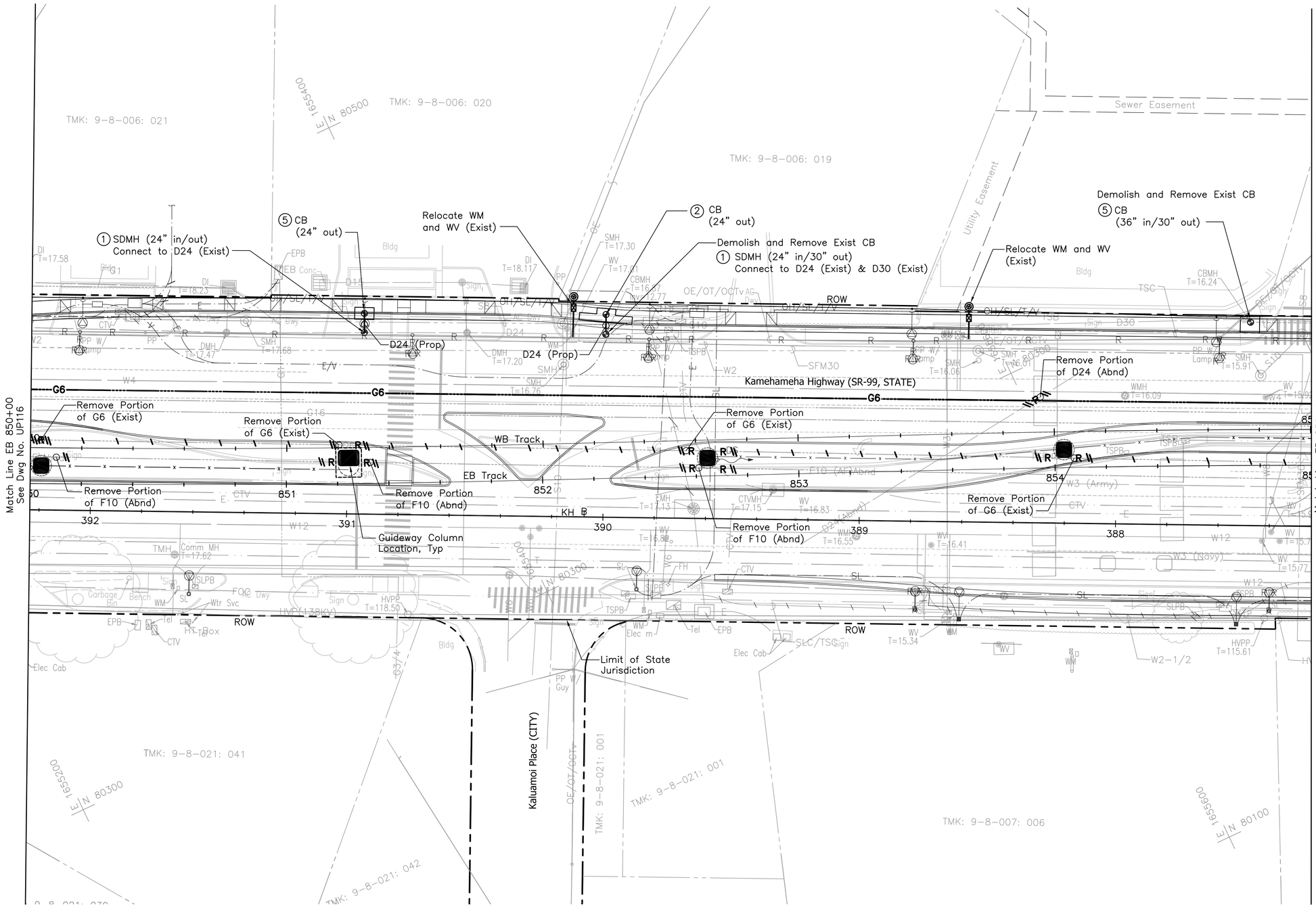
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 845+00 TO EB 850+00

Contract No.: DB-320
CADD File: KHDB-D03-UP116
Drawing No: UP116 Rev. A
Scale: 1"=20'
Page No. 63 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



N

NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

DRAINAGE CONSTRUCTION NOTES:

① Construct Storm Drain Manhole, Type A per HDOT Std. Plan No. H-03

② Construct Catch Basin, Type A per HDOT Std. Plan No. H-01A

⑤ Construct Catch Basin, Type D per HDOT Std. Plan No. H-01D

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

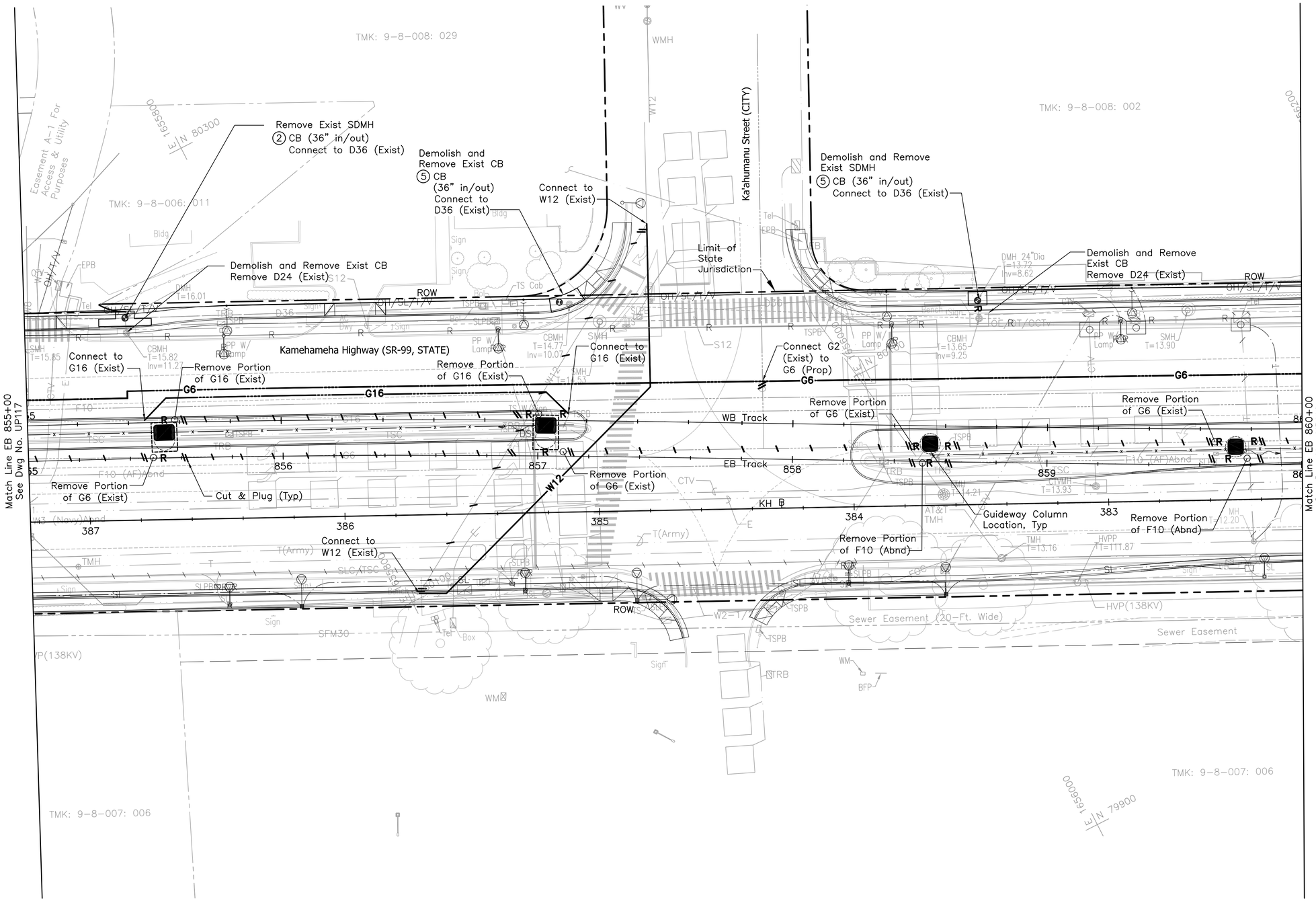
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 850+00 TO EB 855+00

Contract No.: DB-320
CADD File: KHDB-D03-UP117
Drawing No: UP117 Rev. A
Scale: 1"=20'
Page No. 64 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



N

NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

DRAINAGE CONSTRUCTION NOTES:

② Construct Catch Basin, Type A per HDOT Std. Plan No. H-01A

⑤ Construct Catch Basin, Type D per HDOT Std. Plan No. H-01D

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

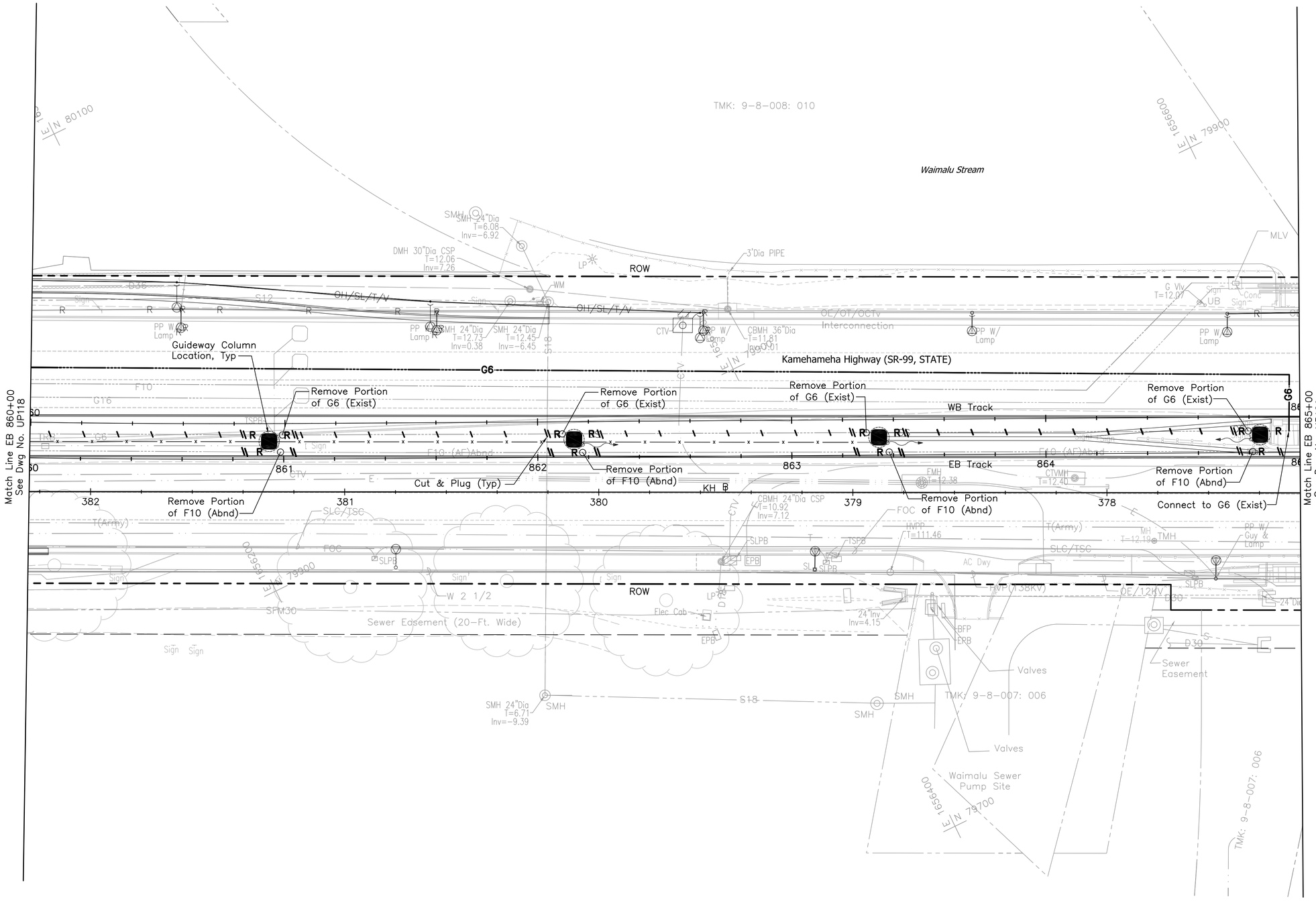
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 855+00 TO EB 860+00

Contract No.: DB-320
CADD File: KHDB-D03-UP118
Drawing No: UP118 Rev. A
Scale: 1"=20'
Page No. 65 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

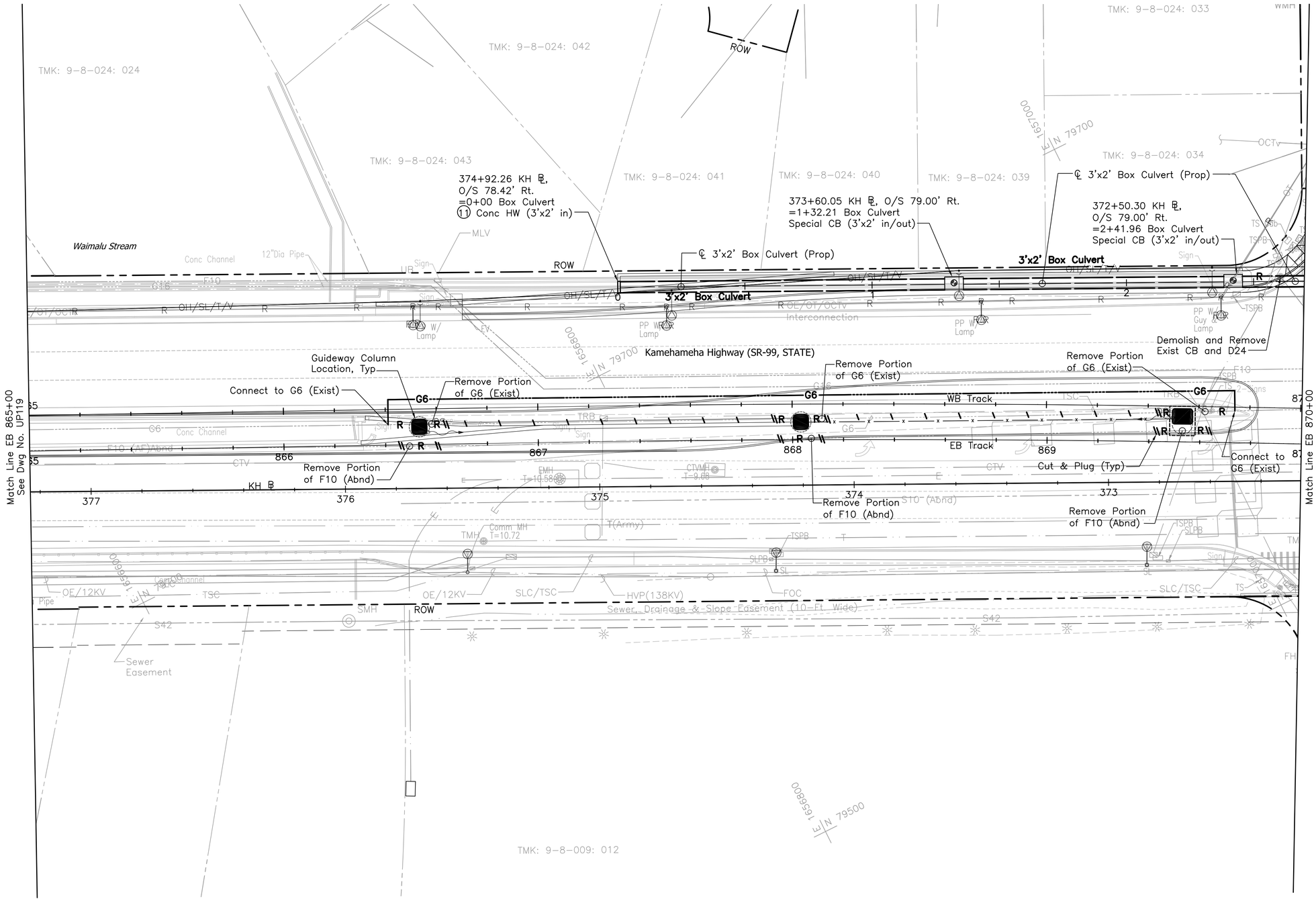
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 860+00 TO EB 865+00

Contract No.: DB-320
CADD File: KHDB-D03-UP119
Drawing No: UP119 Rev. A
Scale: 1"=20'
Page No. 66 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

DRAINAGE CONSTRUCTION NOTES:

(11) Construct Conc Headwall per HDOT Std. Plan No. H-21

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

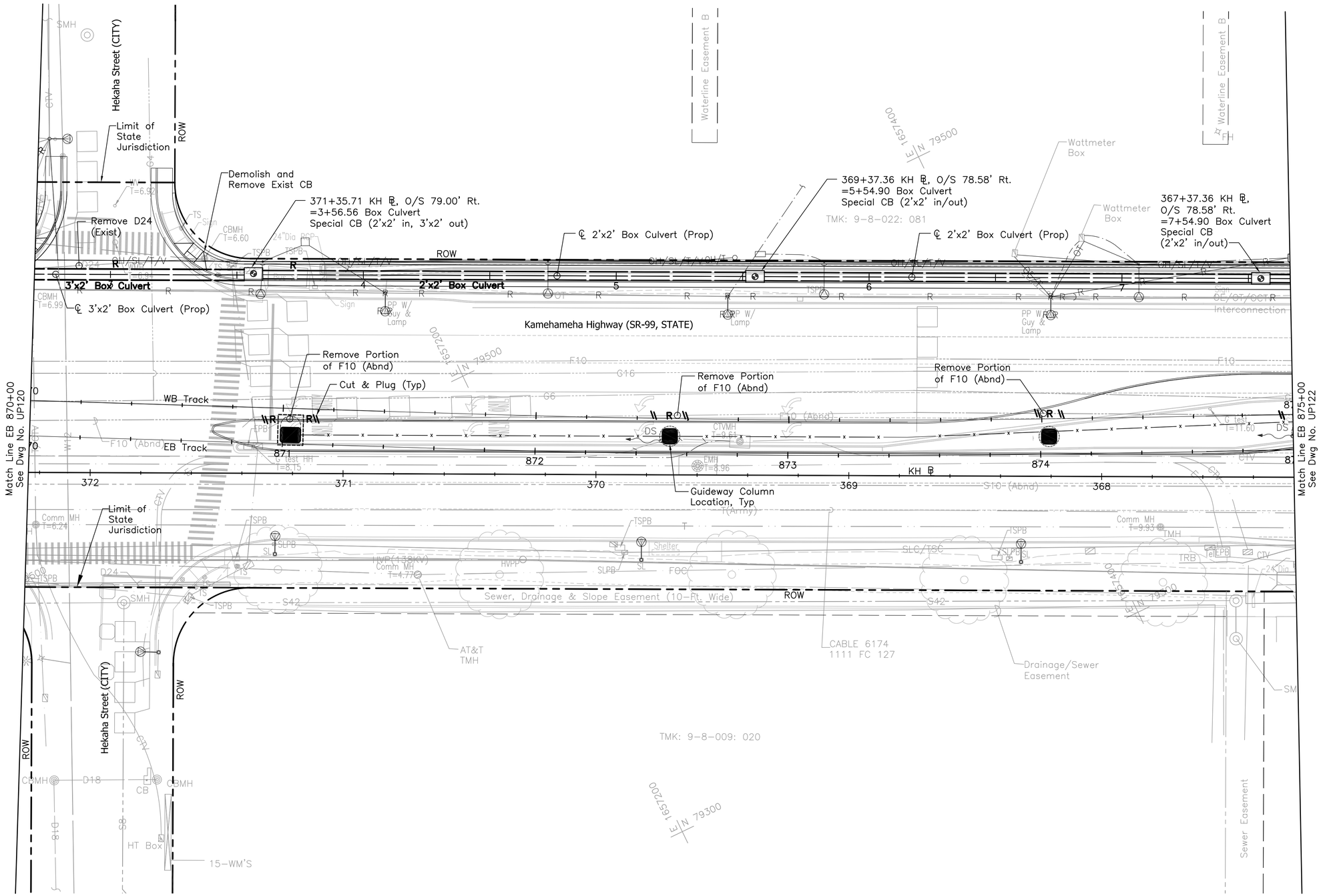
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 865+00 TO EB 870+00

Contract No.: DB-320
CADD File: KHDB-D03-UP120
Drawing No: UP120 Rev. A
Scale: 1"=20'
Page No. 67 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

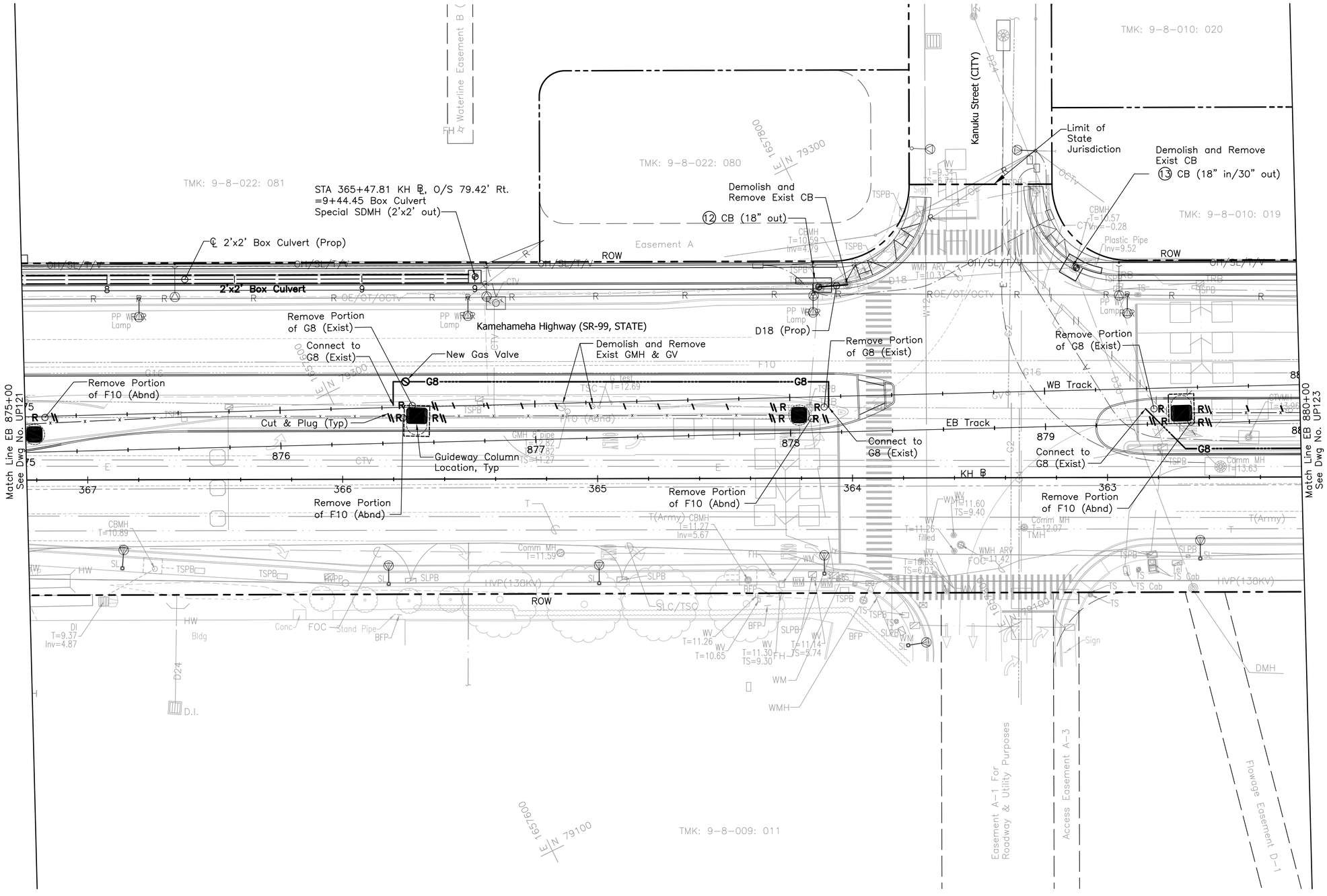
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 870+00 TO EB 875+00

Contract No.: DB-320
CADD File: KHDB-D03-UP121
Drawing No: UP121 Rev. A
Scale: 1"=20'
Page No. 68 of 186

2010-03-12 4:31 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP101-UP121.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

DRAINAGE CONSTRUCTION NOTES:

(12) Construct Catch Basin, Type B1 per HDOT Std. Plan No. H-02B

(13) Construct Catch Basin, Type C1 per HDOT Std. Plan No. H-02C

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

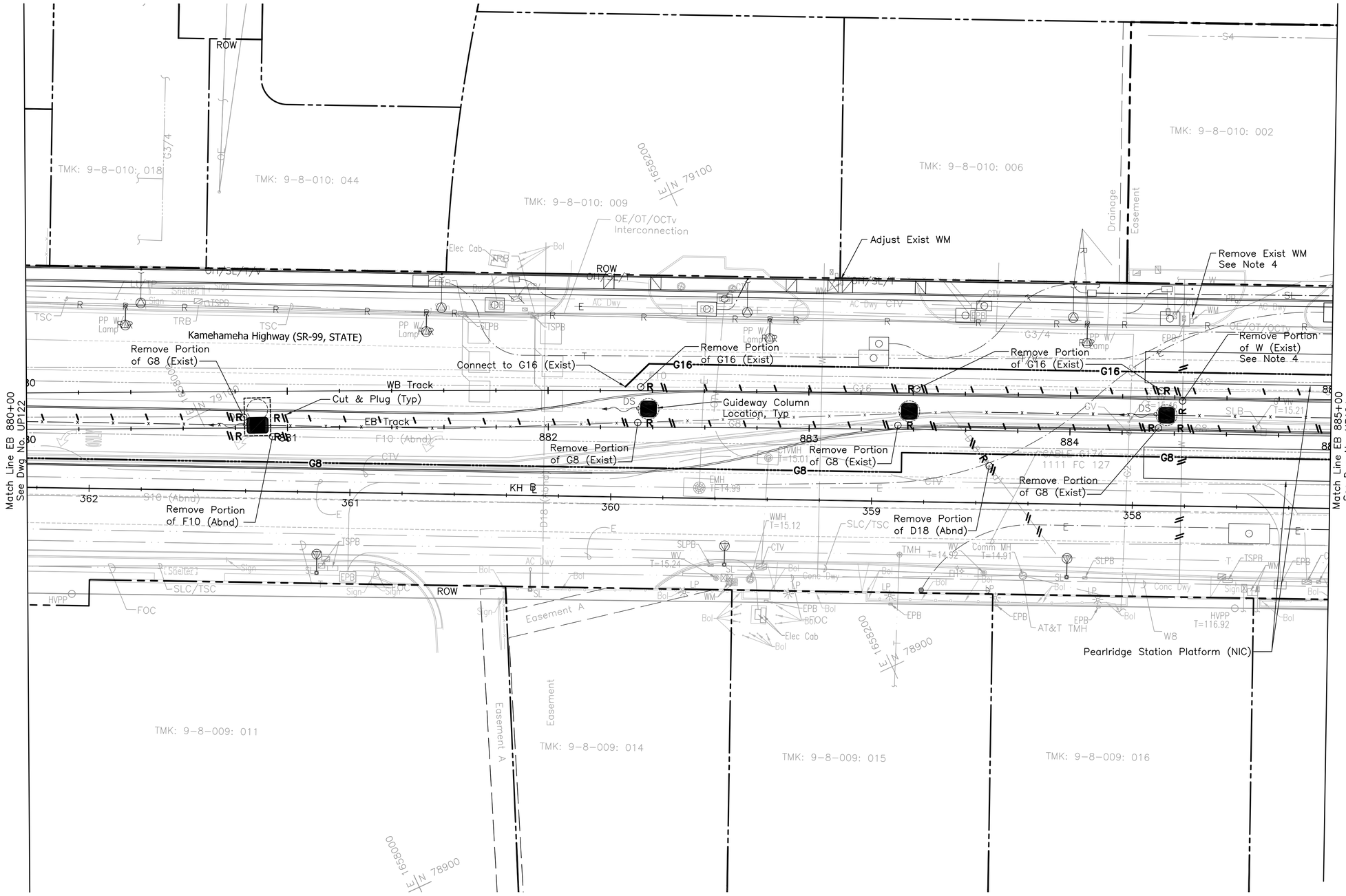
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 875+00 TO EB 880+00

Contract No.: DB-320
CADD File: KHDB-D03-UP122
Drawing No: UP122 Rev. A
Scale: 1"=20'
Page No. 69 of 186

2010-03-12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP122-UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase
4. Water service to TMK: 9-8-010: 002 to be reconnected by Pearlridge Station Contract.

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

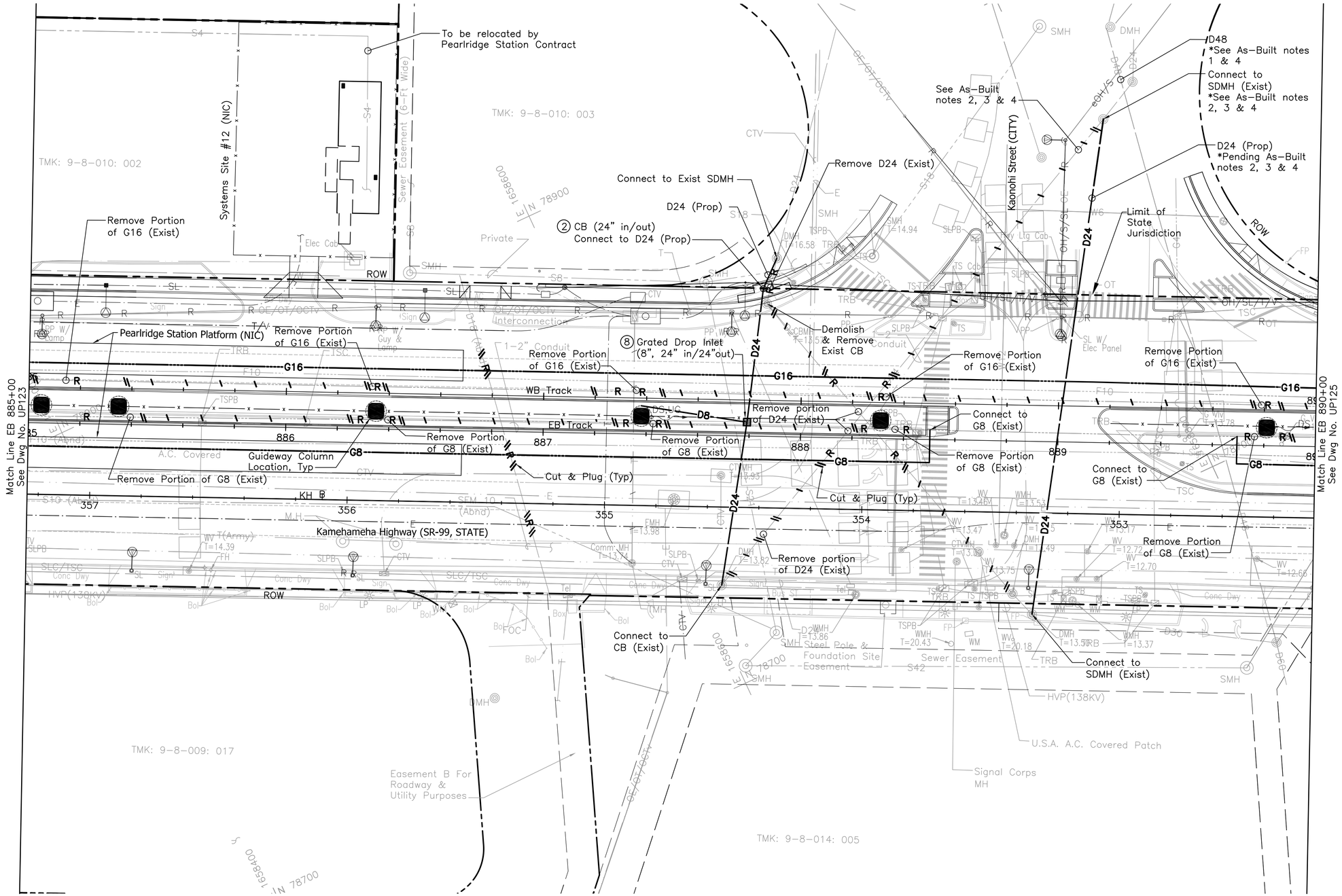
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 880+00 TO EB 885+00

Contract No.: DB-320
CADD File: KHDB-D03-UP123
Drawing No: UP123 Rev. A
Scale: 1"=20'
Page No. 70 of 186

2010-03-12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP122-UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

DRAINAGE CONSTRUCTION NOTES:

② Construct Catch Basin, Type A per HDOT Std. Plan No. H-01A

⑧ Construct Grated Drop Inlet, Type 1A-9P per HDOT Std. Plan No. H-08

***AS-BUILT NOTES:**

1. 48" Drainline not shown on BWS as-built: 1983-019: Kamehameha Highway 8-Inch Water Main Ewa of Kaonohi Street
2. 24" Drainline shown on BWS as-built: 326-WRP: 80 Foot Roadway, Pearl Harbor Heights.
3. 24" Drainline not shown in CCH GIS systems.
4. Final Designer to verify size and location of all utilities.

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF, 1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION, Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management, 808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

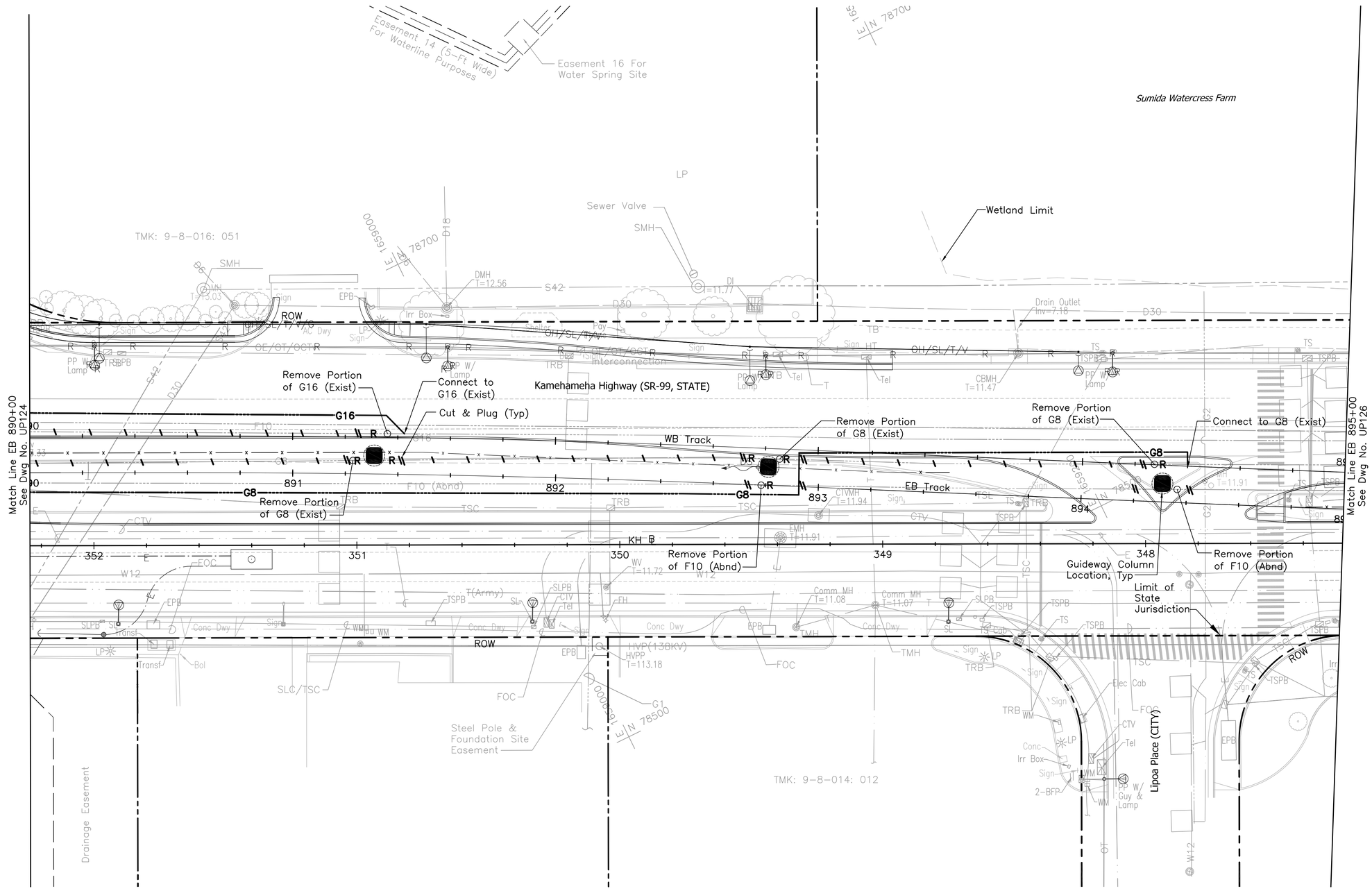
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 885+00 TO EB 890+00

Contract No.: DB-320
CADD File: KHDB-D03-UP124
Drawing No: UP124 Rev. A
Scale: 1"=20'
Page No. 71 of 186

2010-03-12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP122-UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF, 1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION, Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management, 808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

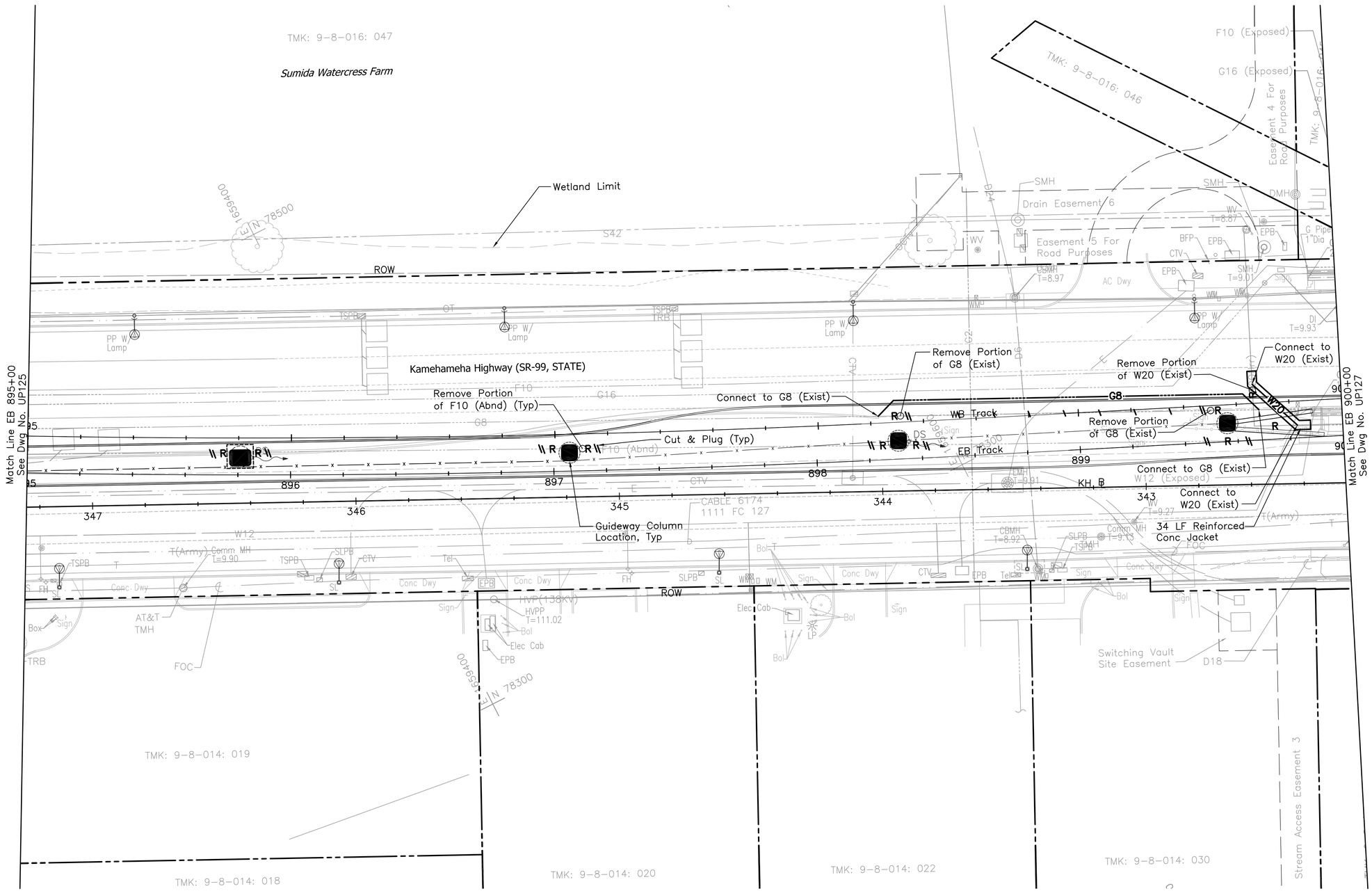
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 890+00 TO EB 895+00

Contract No.: DB-320
CADD File: KHDB-D03-UP125
Drawing No: UP125 Rev. A
Scale: 1"=20'
Page No. 72 of 186

2010-03-12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP122-UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

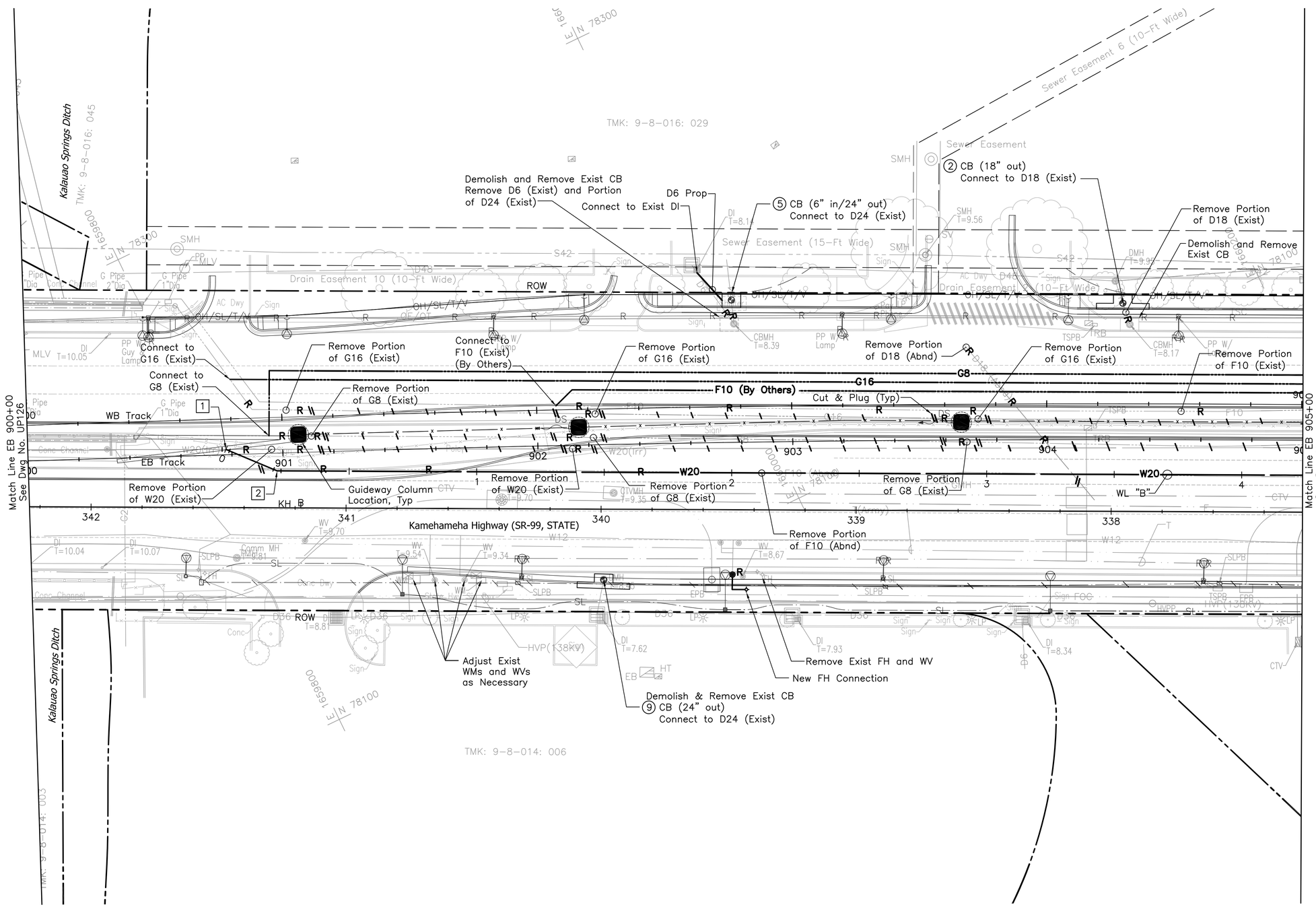
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 895+00 TO EB 900+00

Contract No.: DB-320
CADD File: KHDB-D03-UP126
Drawing No: UP126 Rev. A
Scale: 1"=20'
Page No. 73 of 186

2010-03-12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP122-UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

DRAINAGE CONSTRUCTION NOTES:

(2) Construct Catch Basin, Type A per HDOT Std. Plan No. H-01A

(5) Construct Catch Basin, Type D per HDOT Std. Plan No. H-01D

(9) Construct Catch Basin, Type A1 per HDOT Std. Plan No. H-02A

WATER CONSTRUCTION NOTES:

[1] STA 341+47.20 KH ℄, O/S 22.81' Rt.
=0+00 WL "B"
Connect to W20 (Exist)
1-20" X/6 Bend (H) D.I.
1-Conc Block w/ Structural Struts
1-20" Sleeve, 15' Long
8± LF 20" D.I. Pipe, Cl. 52
Temp for Testing:
1-20" Cap w/ 4" C.O.
1-Conc Block

[2] STA 341+27.09 KH ℄, O/S 14.48' Rt.
=0+21.77 WL "B"
1-20" X/6 Bend (H) D.I.
1-Conc Block

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

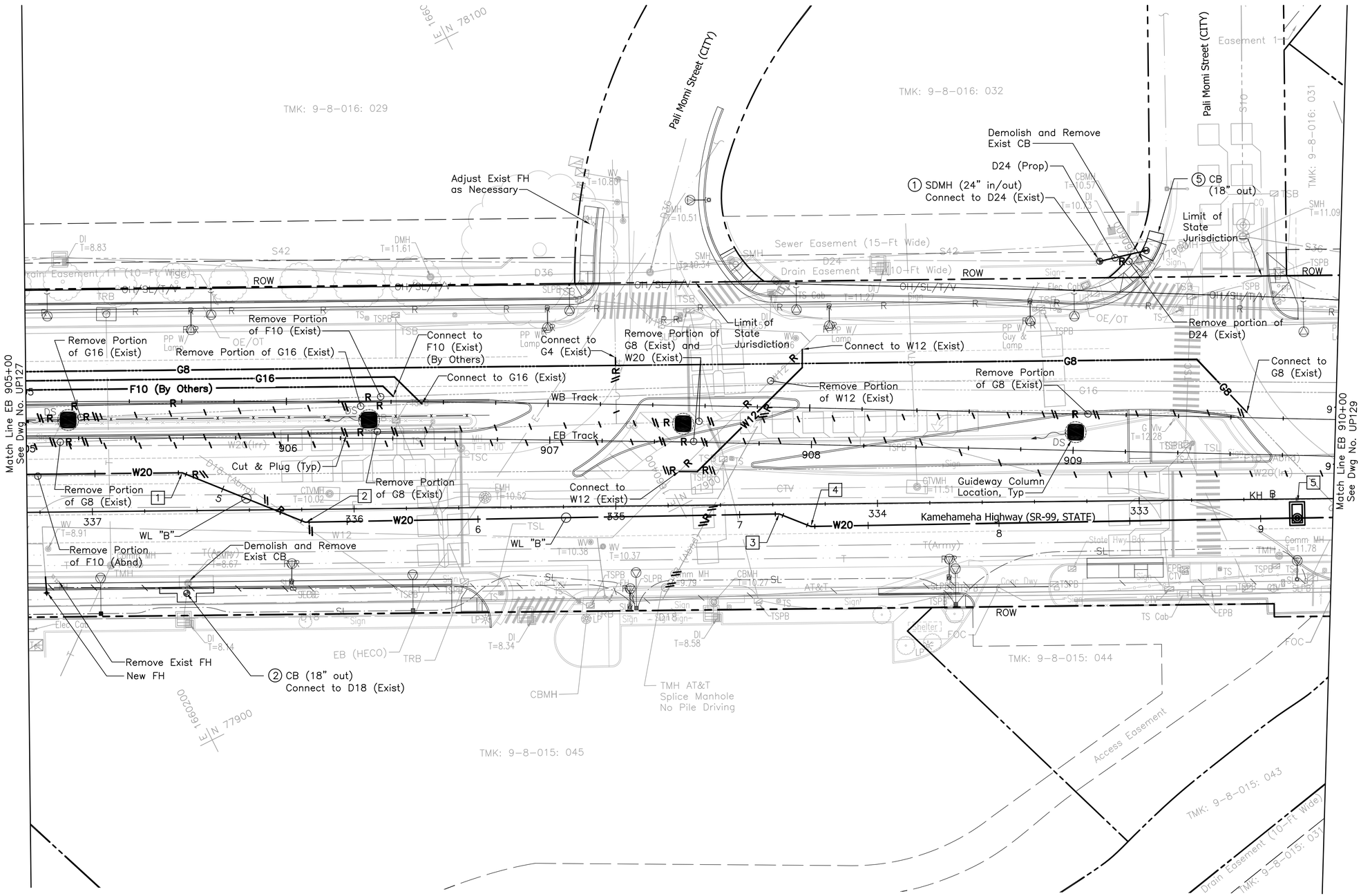
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 900+00 TO EB 905+00

Contract No.: DB-320
CADD File: KHDB-D03-UP127
Drawing No: UP127 Rev. A
Scale: 1"=20'
Page No. 74 of 186

2010-03-12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP122-UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

DRAINAGE CONSTRUCTION NOTES:

1. Construct Storm Drain Manhole, Type A per HDOT Std. Plan No. H-03
2. Construct Catch Basin, Type A per HDOT Std. Plan No. H-01A
5. Construct Catch Basin, Type D per HDOT Std. Plan No. H-01D

WATER CONSTRUCTION NOTES:

1. STA 336+65.47 KH ℄, O/S 14.48' Rt.
   =4+88.39 WL "B"
   1-20" X/6 Bend (H) D.I.
   1-Conc Block
2. STA 336+18.73 KH ℄, O/S 7.88' Lt.
   =5+33.98 WL "B"
   1-20" X/6 Bend (H) D.I.
   1-Conc Block
3. STA 334+37.58 KH ℄, O/S 3.66' Lt.
   =7+28.12 WL "B"
   1-20" X/6 Bend (H) D.I.
   1-Conc Block
4. STA 334+25.54 KH ℄, O/S 8.55' Lt.
   =7+28.12 WL "B"
   1-20" X/6 Bend (H) D.I.
   1-Conc Block
5. STA 332+39.67 KH ℄, O/S 7.30' Lt.
   =9+14.00 WL "B"
   1-Type "A" WMH
   1-20" BGGV, CL. 150, FE
   1-20" Flanged Dismanteling Joint
   2-20" Flange Adapter, FxB
   2-Conc Capping Collar
   1-Valve Marker

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 - Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning - Engineering - Environmental Services - Photogrammetry - Surveying - Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

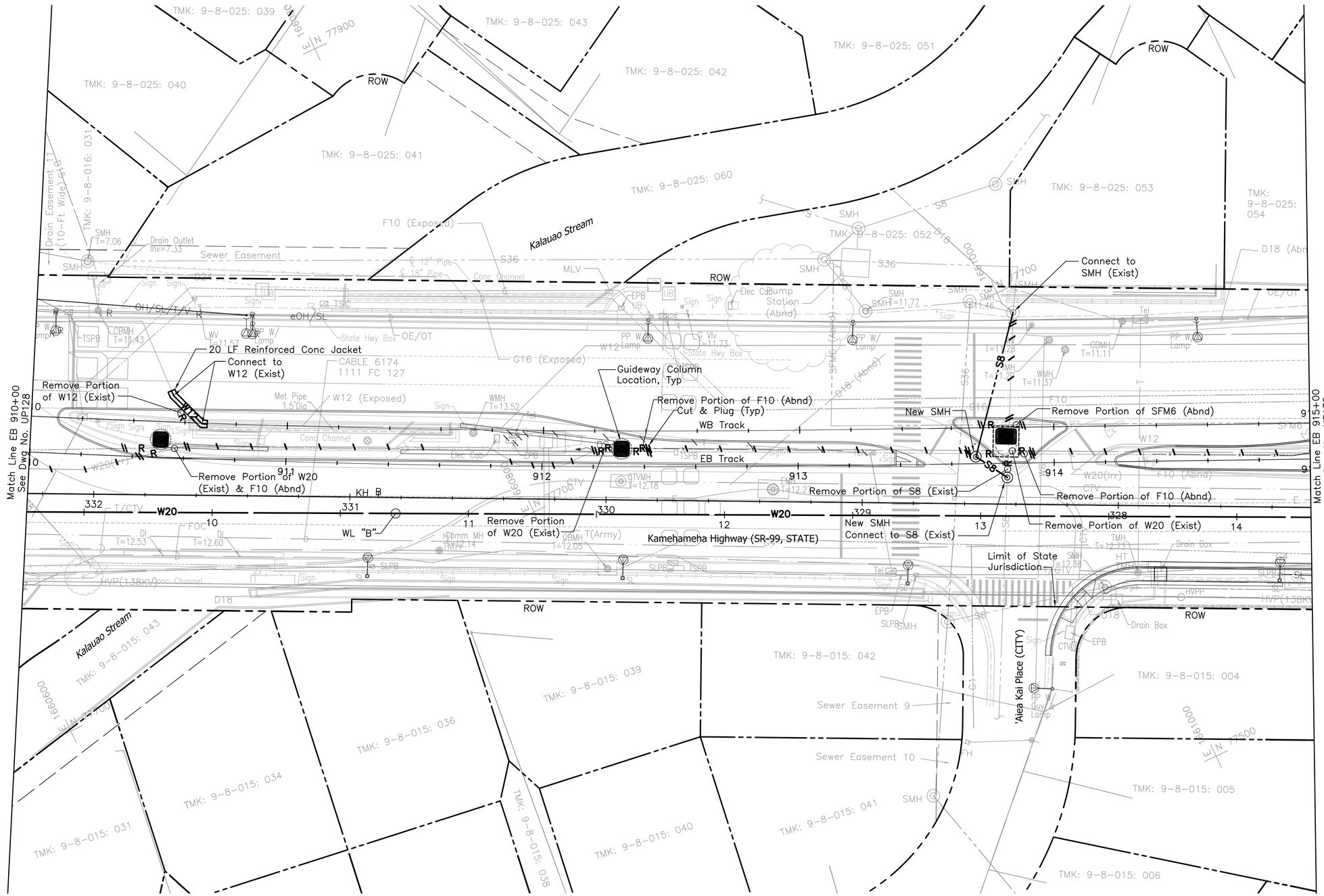
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 905+00 TO EB 910+00

Contract No.: DB-320
CADD File: KHDB-D03-UP128
Drawing No: UP128 Rev. A
Scale: 1"=20'
Page No. 75 of 186

2010-03-12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP122-UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

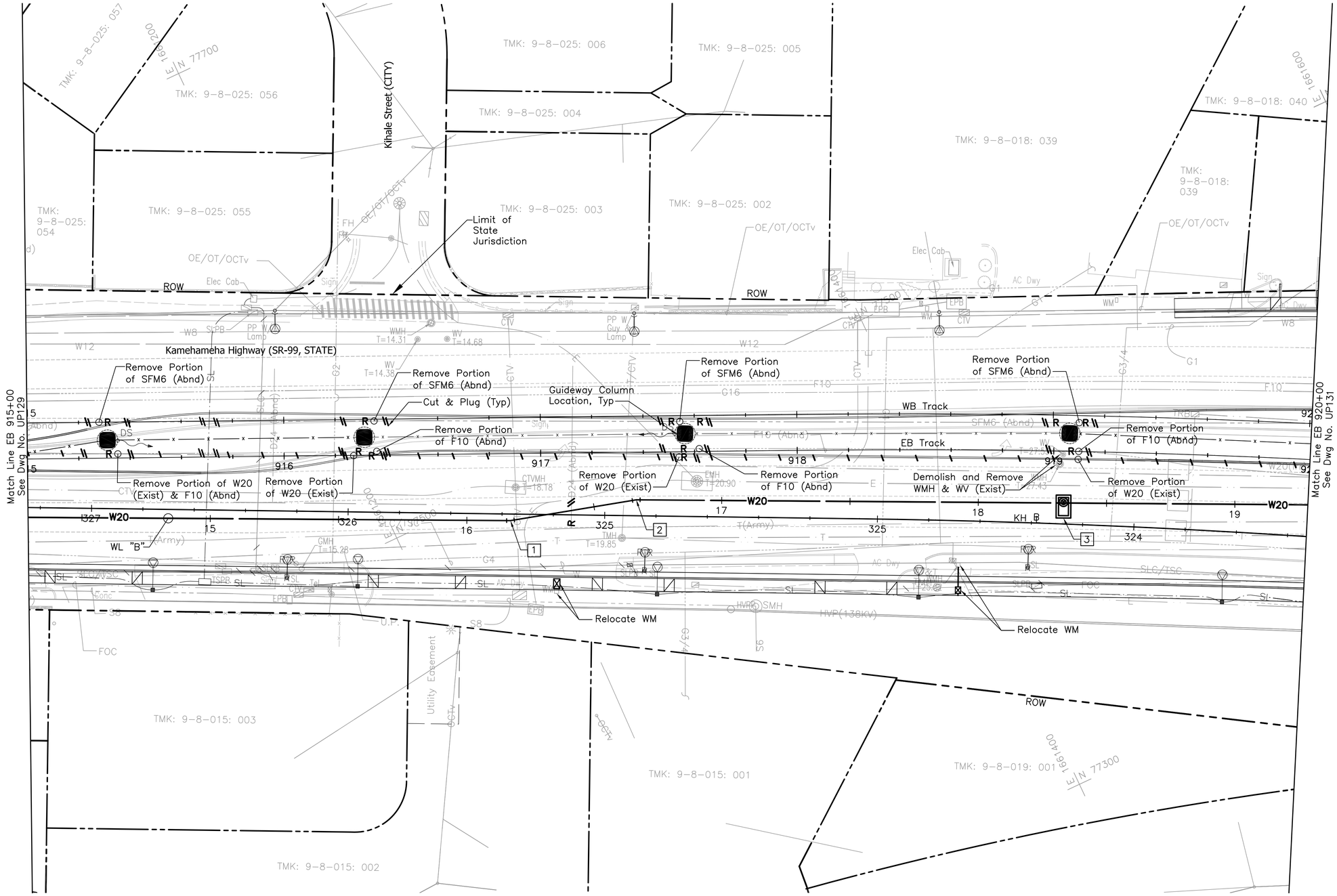
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 910+00 TO EB 915+00

Contract No.: DB-320
CADD File: KHDB-D03-UP129
Drawing No: UP129 Rev. A
Scale: 1"=20'
Page No. 76 of 186

2010-03-12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP122-UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

WATER CONSTRUCTION NOTES:

1 STA 325+36.68 KH ℄, O/S 2.56 Lt.
=16+17.01 WL "B"
1–20" 1/32 Bend (H), D.I.
1–Conc Block

2 STA 324+86.56 KH ℄, O/S 6.43' Rt.
=16+66.68 WL "B"
1–20" 1/32 Bend (H), D.I.
1–Conc Block

3 STA 324+27.75 KH ℄, O/S 8.51' Rt.
=18+33.22 WL "B"
1–Type "A" WMH
1–20" BGGV, CL. 150, FE
1–20" Flanged Dismanteling Joint
2–20" Flange Adapter, FxB
2–Conc Capping Collar
1–Valve Marker

20' 0' 20'

Rev	By	Date	Description
A	JY	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819–3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

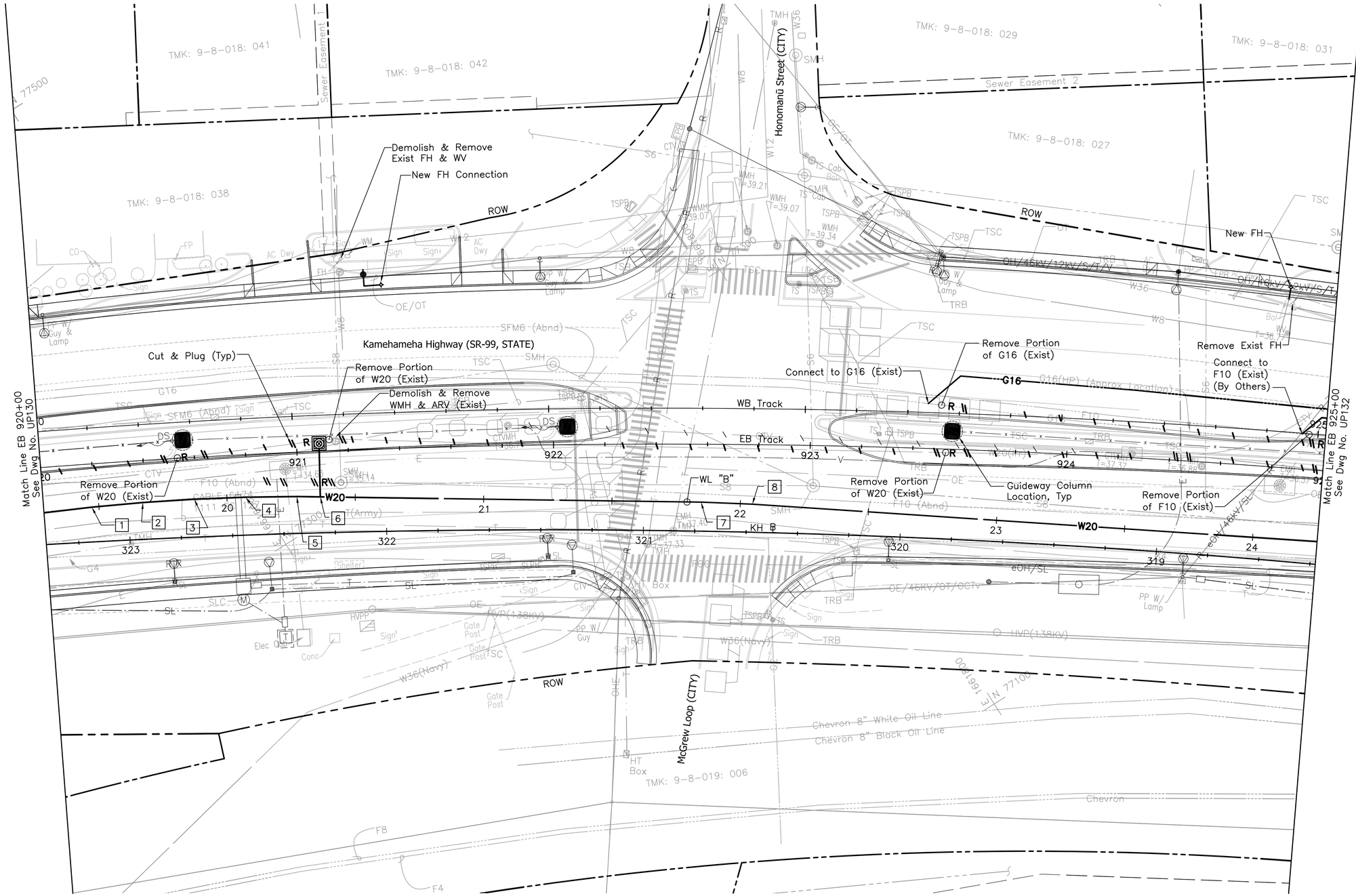
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 915+00 TO EB 920+00

Contract No.: DB–320
CADD File: KHDB–D03–UP130
Drawing No: UP130 Rev. A
Scale: 1"=20'
Page No. 77 of 186

2010–03–12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB–D03–UP122–UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

WATER CONSTRUCTION NOTES:

1. STA 323+14.23 KH ℄, O/S 13.53' Rt. =19+47.22 WL "B" Deflect W20 1.5°
2. STA 322+94.33 KH ℄, O/S 14.35' Rt. =19+67.22 WL "B" Deflect W20 1.5°
3. STA 322+74.43 KH ℄, O/S 14.76 Rt. =19+87.22 WL "B" Deflect W20 1.5°
4. STA 322+54.51 KH ℄, O/S 14.77' Rt. =20+07.22 WL "B" Deflect W20 1.5°
5. STA 322+34.60 KH ℄, O/S 14.36' Rt. =20+27.22 WL "B" Deflect W20 1.5°
6. STA 322+25.50 KH ℄, O/S 14.00' Rt. =20+36.38 WL "B" 1-2" ARV w/ Type "D" WMH
7. STA 320+77.74 KH ℄, O/S 11.32 Rt. =21+84.71 WL "B" Deflect W20 1.5°
8. STA 320+57.81 KH ℄, O/S 10.93' Rt. =22+36.38 WL "B" Deflect W20 1.5°

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

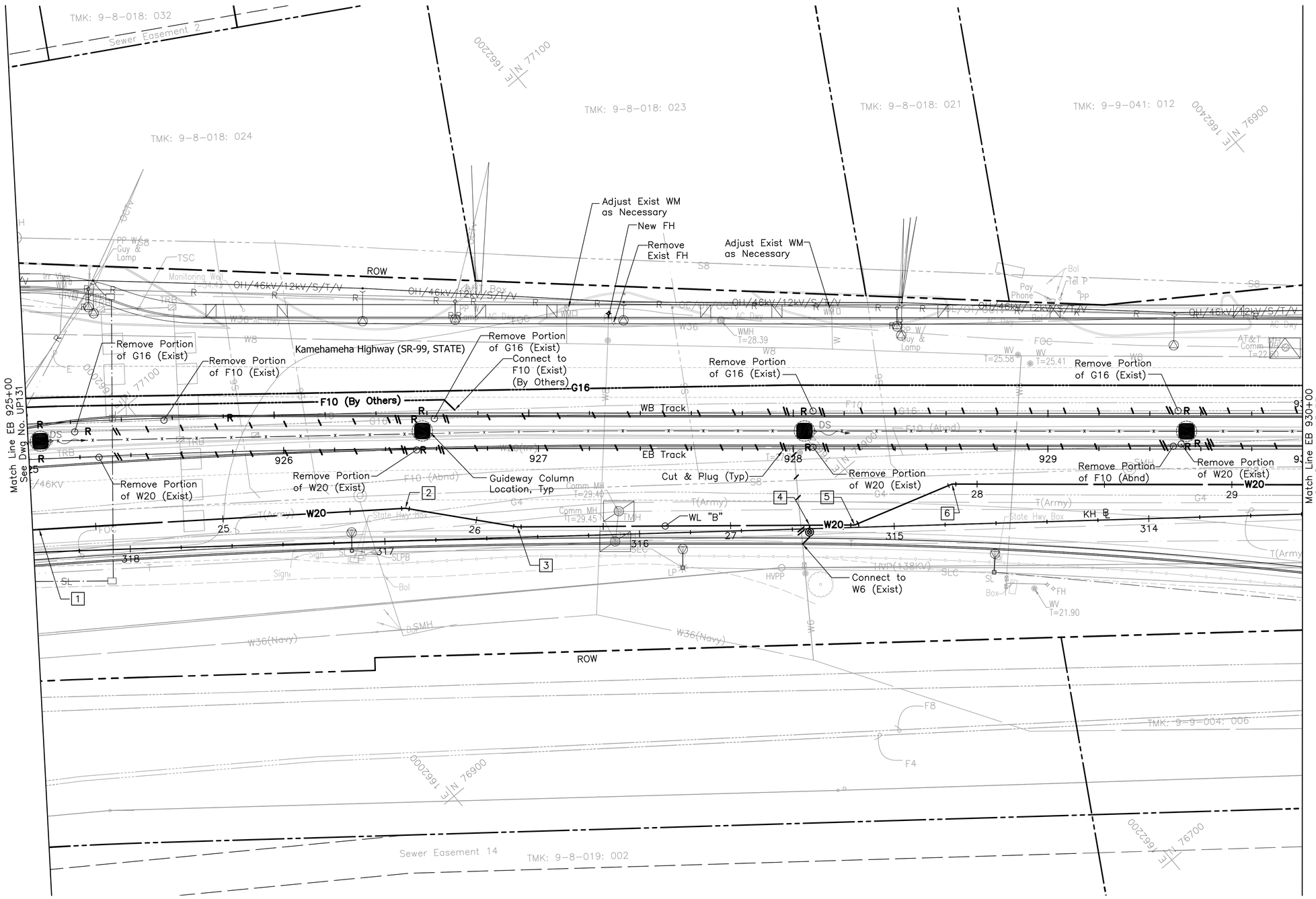
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 920+00 TO EB 925+00

Contract No.: DB-320
CADD File: KHDB-D03-UP131
Drawing No: UP131 Rev. A
Scale: 1"=20'
Page No. 78 of 186

2010-03-12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP122-UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

WATER CONSTRUCTION NOTES:

1. STA 318+35.38 KH ℄, O/S 8.96' Rt.
   =24+27.77 WL "B"
   Deflect W20 0.5°
2. STA 316+91.54 KH ℄, O/S 12.75' Rt.
   =25+71.77 WL "B"
   1–20" 32 Bend (H), D.I.
   1–Conc Block
3. STA 316+47.87 KH ℄, O/S 4.15 Rt.
   =26+16.28 WL "B"
   1–20" 32 Bend (H), D.I.
   1–Conc Block
4. STA 315+33.19 KH ℄, O/S 1.39 Rt.
   =27+31.00 WL "B"
   1–20"x6" Tee
   1–Conc. Block
   1–6" GV, 150#
   1–Valve Box
5. STA 315+15.48 KH ℄, O/S 0.94 Rt.
   =27+48.71 WL "B"
   1–20" 16 Bend (H), D.I.
   1–Conc Block
6. STA 314+76.82 KH ℄, O/S 15.86' Rt.
   =27+90.15 WL "B"
   1–20" 16 Bend (H), D.I.
   1–Conc Block

20' 0' 20'

Rev	By	Date	Description
A	JY	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819–3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

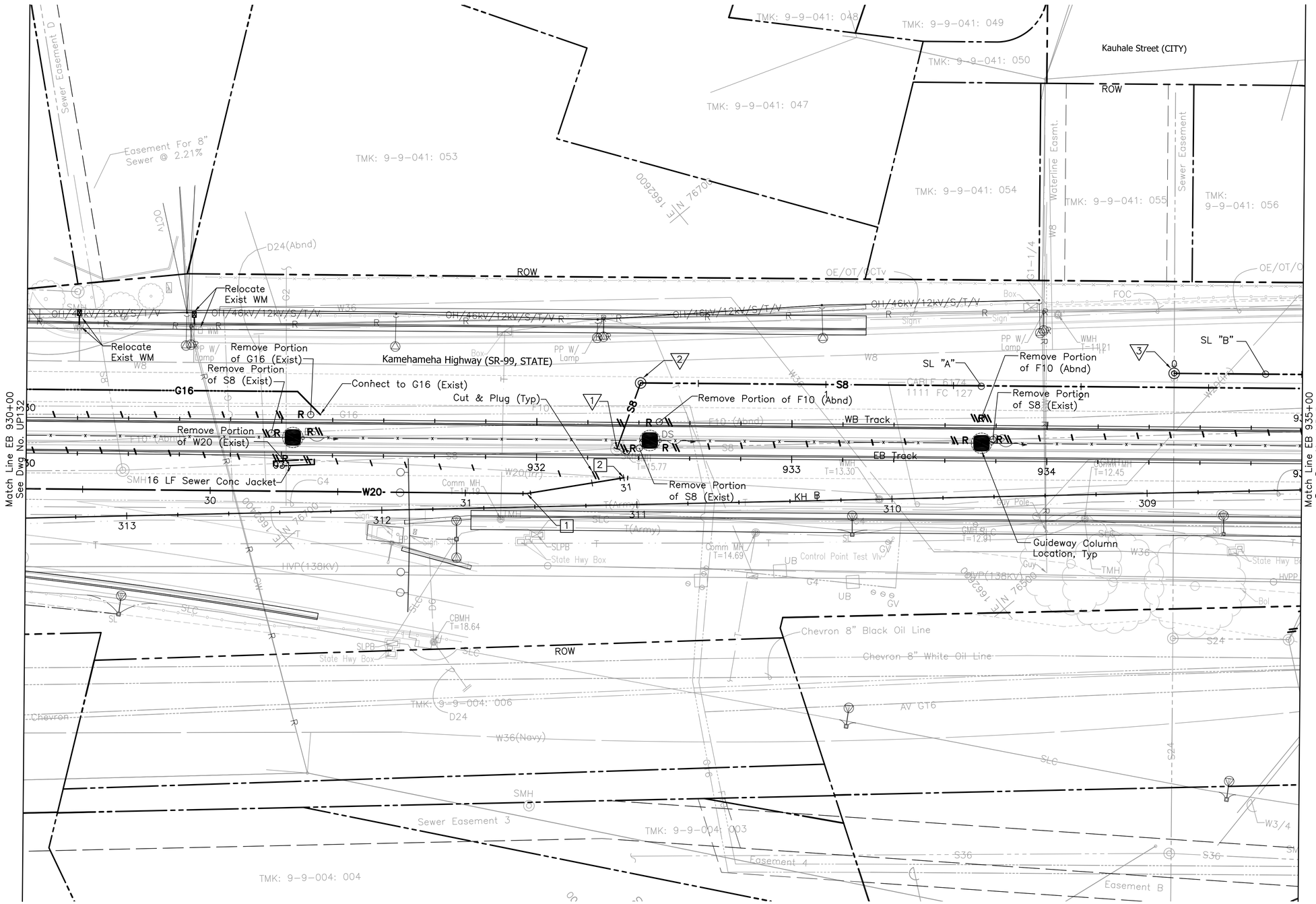
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 925+00 TO EB 930+00

Contract No.: DB–320
CADD File: KHDB–D03–UP132
Drawing No: UP132 Rev. A
Scale: 1"=20'
Page No. 79 of 186

2010–03–12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB–D03–UP122–UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

WATER CONSTRUCTION NOTES:

1. STA 311+43.05 KH ℄, O/S 5.29' Rt.
   =31+24.09 WL "B"
   1–20" 1/32 Bend (H), D.I.
   1–Conc Block

2. STA 311+04.89 KH ℄, O/S 10.61' Rt.
   =31+62.62 WL "B"
   Connect to W20 (Exist)
   1–20" 1/32 Bend (H), D.I.
   1–Conc Block w/ Structural Struts
   1–20" Sleeve 15' Long
   8± LF 20" D.I. Pipe, Cl. 52
   Temp for Testing:
   1–20" Cap 2/ 4" C.O.
   1–Conc Block

SEWER CONSTRUCTION NOTES:

1. STA 311+07.33 KH ℄, O/S 22.08' Rt.
   =0+00 SL "A"
   Connect to SMH (Exist)
   T=
   Inv.=

2. STA 310+97.49 KH ℄, O/S 47.62' Rt.
   =0+27.37 SL "A"
   New SMH
   T=
   Inv.=

3. STA 308+88.35 KH ℄, O/S 46.75' Rt.
   =0+00 SL "B"
   New SMH
   Connect to S24 (Exist)
   T=
   Inv.=

20' 0' 20'

Rev	By	Date	Description
A	JY	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819–3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

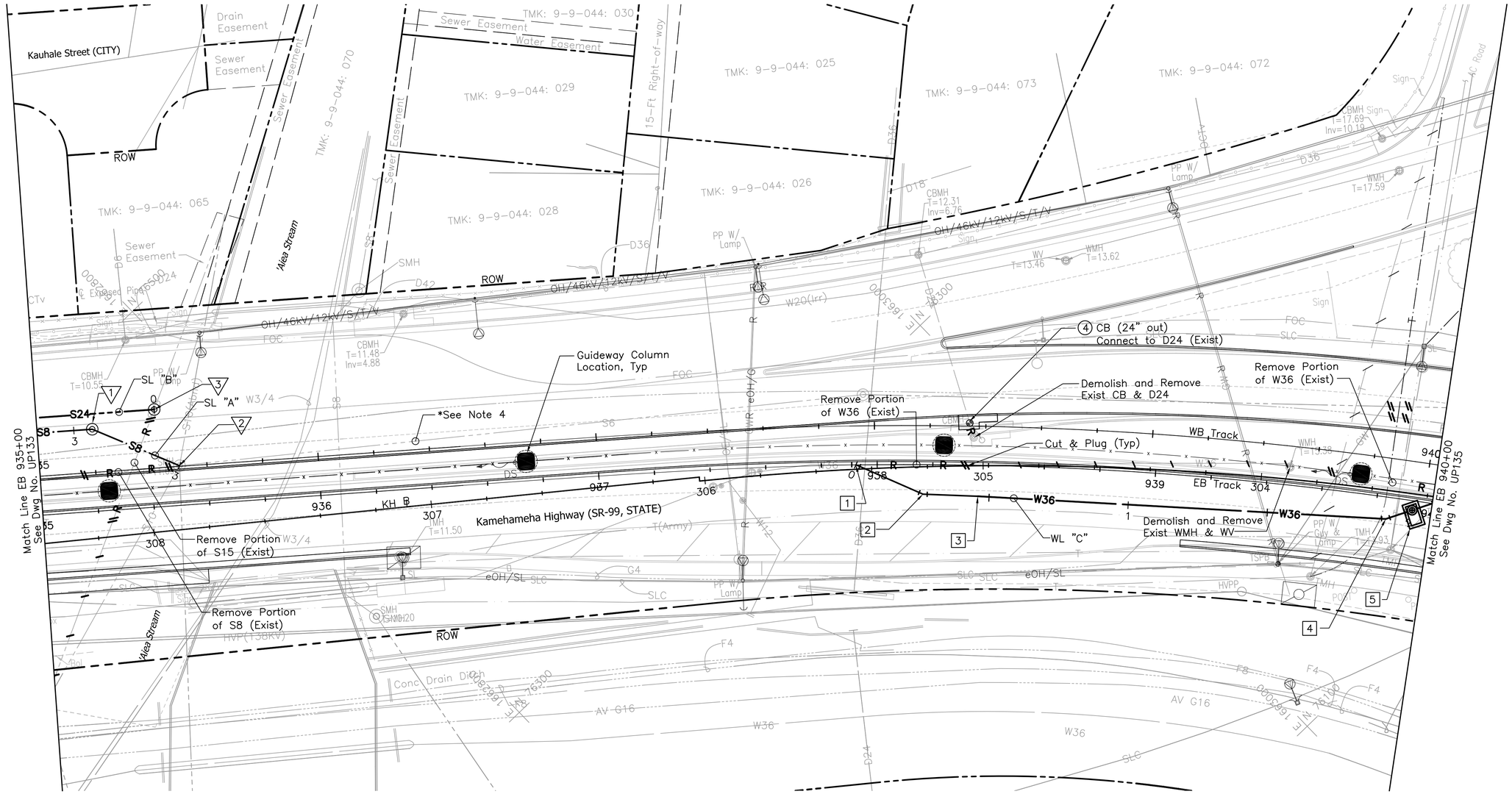
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 930+00 TO EB 935+00

Contract No.: DB–320
CADD File: KHDB–D03–UP133
Drawing No: UP133 Rev. A
Scale: 1"=20'
Page No. 80 of 186

2010–03–12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB–D03–UP122–UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase
4. Existing S6 line is abandoned. Per consultation with C&C Department of Planning and Permitting, Wastewater Branch. Final Designer to verify.

DRAINAGE CONSTRUCTION NOTES:

(4) Construct Catch Basin, Type C per HDOT Std. Plan No. H-01C

WATER CONSTRUCTION NOTES:

[1] STA 305+45.64 KH ℄, O/S 1.56' Rt.
=0+00 WL "C"
Connect to W36 (Exist)
1-36" 1/16 Bend (H), D.I.
1-Conc Block w/ Structural Struts
1-36" Sleeve 15' Long
8± LF 36" D.I. Pipe, Cl. 52
Temp for Testing:
1-36" Cap w/ 6" C.O.
1-Conc Block

[2] STA 305+21.85 KH ℄, O/S 9.85' Lt.
=0+26.27 WL "C"
1-36" 1/16 Bend (H), D.I.
1-Conc Block

[3] STA 305+01.99 KH ℄, O/S 10.95' Lt.
=0+45.97 WL "C"
Deflect W36 1°

[4] STA 303+53.76 KH ℄, O/S 10.31' Lt.
=1+92.62 WL "C"
1-36" 1/16 Bend (H), D.I.
1-Conc Block

[5] STA 303+44.73 KH ℄, O/S 5.94' Lt.
=2+02.59 WL "C"
1-Type "A" WMH
1-36" BGGV, CL. 150, FE
1-36" Flanged Dismanteling Joint
2-36" Flange Adapter, FxB
2-Conc Capping Collar
1-Valve Marker

20' 0' 20'

SEWER CONSTRUCTION NOTES:

(1) STA 308+18.37 KH ℄, O/S 39.11' Rt.
=3+06.63 SL "A"
New SMH
T=
Inv.=

(2) STA 307+88.51 KH ℄, O/S 22.92 Rt.
=3+40.60 SL "A"
Connect to SMH (Exist)
T=
Inv.=

(3) STA 307+95.52 KH ℄, O/S 43.92' Rt.
=0+92.87 SL "B"
New SMH
Connect to S15 (Exist)
T=
Inv.=

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

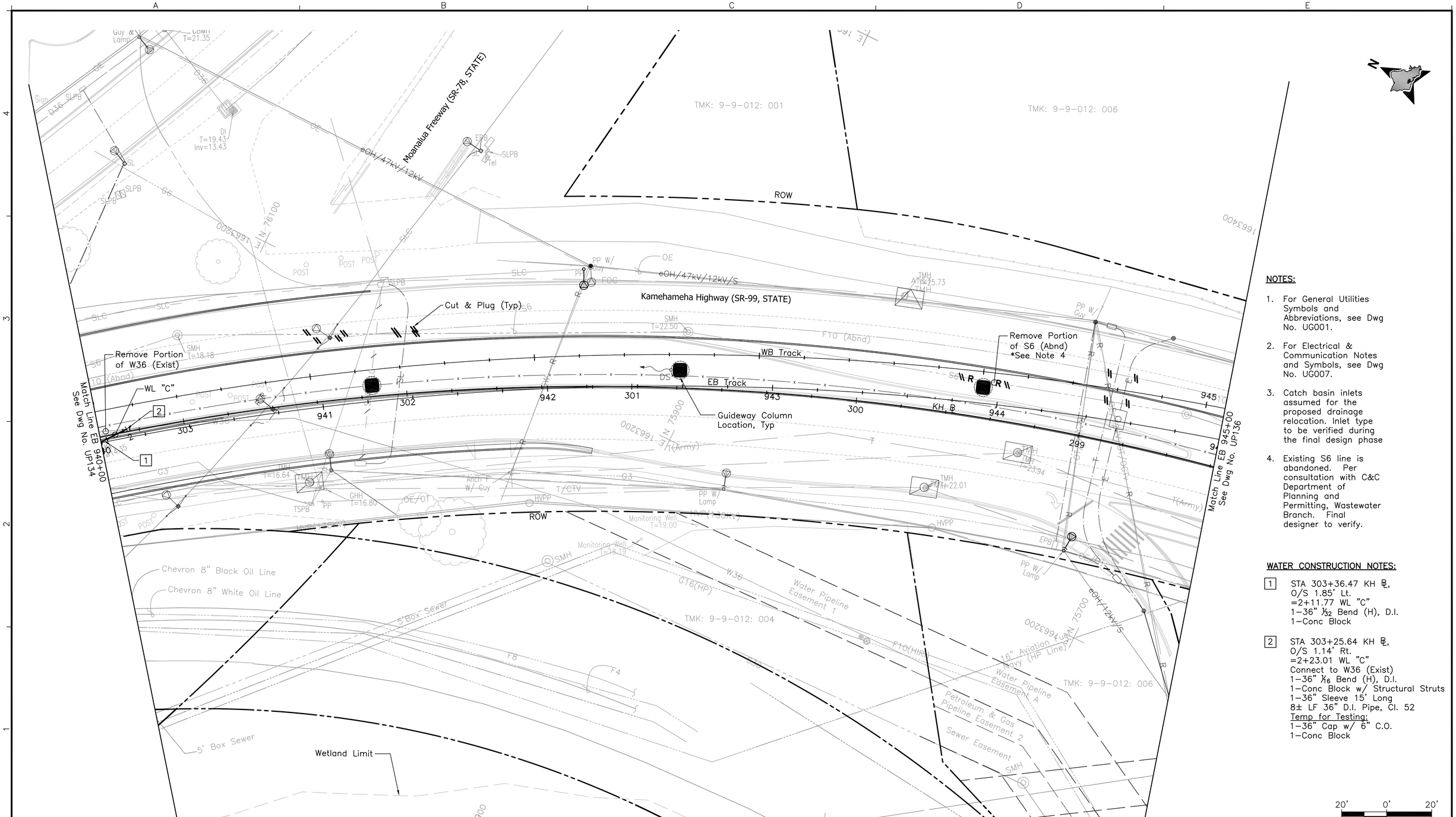
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 935+00 TO EB 940+00

Contract No.: DB-320
CADD File: KHDB-D03-UP134
Drawing No: UP134 Rev. A
Scale: 1"=20'
Page No. 81 of 186

2010-03-12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP122-UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase
4. Existing S6 line is abandoned. Per consultation with C&C Department of Planning and Permitting, Wastewater Branch. Final designer to verify.

WATER CONSTRUCTION NOTES:

1. STA 303+36.47 KH ℄, O/S 1.85' Lt. =2+11.77 WL "C" 1–36" 32/ Bend (H), D.I. 1–Conc Block

2. STA 303+25.64 KH ℄, O/S 1.14' Rt. =2+23.01 WL "C" Connect to W36 (Exist) 1–36" 16/ Bend (H), D.I. 1–Conc Block w/ Structural Struts 1–36" Sleeve 15' Long 8± LF 36" D.I. Pipe, Cl. 52 Temp for Testing: 1–36" Cap w/ 6" C.O. 1–Conc Block

Rev	By	Date	Description
A	JY	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819–3470

For reduced prints, original page size in inches: 0 1 2 3 4

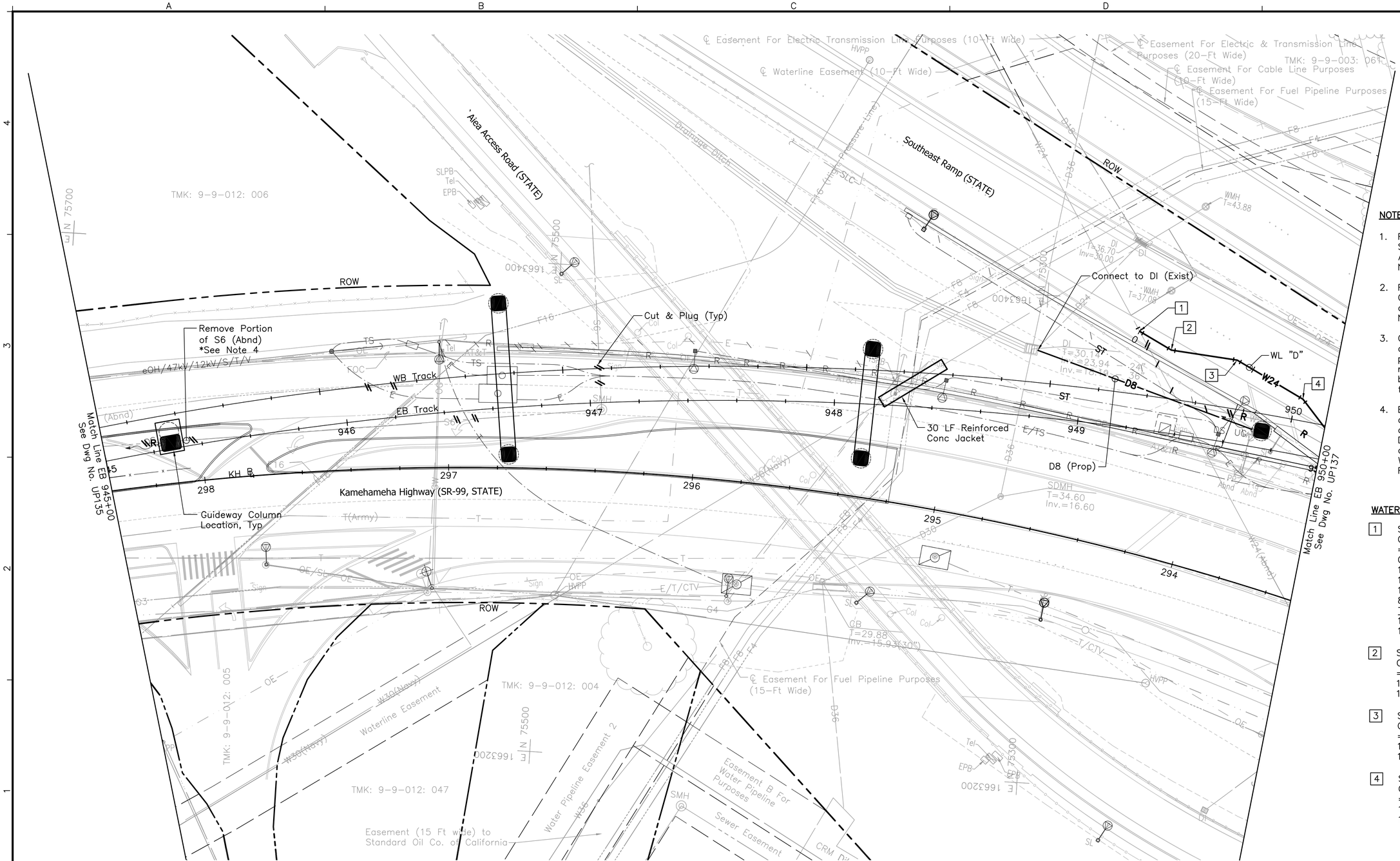
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 940+00 TO EB 945+00

Contract No.: DB–320
CADD File: KHDB–D03–UP135
Drawing No: UP135 Rev. A
Scale: 1"=20'
Page No. 82 of 186

2010–03–12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB–D03–UP122–UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase
4. Existing S6 line is abandoned. Per consultation with C&C Department of Planning and Permitting, Wastewater Branch. Final designer to verify.

WATER CONSTRUCTION NOTES:

1. STA 294+35.52 KH ℄, O/S 89.02' Rt. =0+00 WL "D"
   Connect to W24 (Exist)
   1-24" 1/2 Bend (H), D.I.
   1-Conc Block w/ Structural Struts
   1-24" Sleeve, 15' Long
   8± LF 24" D.I. Pipe, Cl. 52
   Temp for Testing:
   1-24" Cap w/ 6" C.O.
   1-Conc Blk.
2. STA 294+22.13 KH ℄, O/S 84.70' Rt. =0+15.10 WL "D"
   1-24" 1/16 Bend (H), D.I.
   1-Conc Block
3. STA 293+97.01 KH ℄, O/S 87.74' Rt. =0+42.38 WL "D"
   1-24" 1/16 Bend (H), D.I.
   1-Conc Block
4. STA 293+68.80 KH ℄, O/S 80.05' Rt. =0+73.74 WL "D"
   1-24" 1/16 Bend (H), D.I.
   1-Conc Block

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

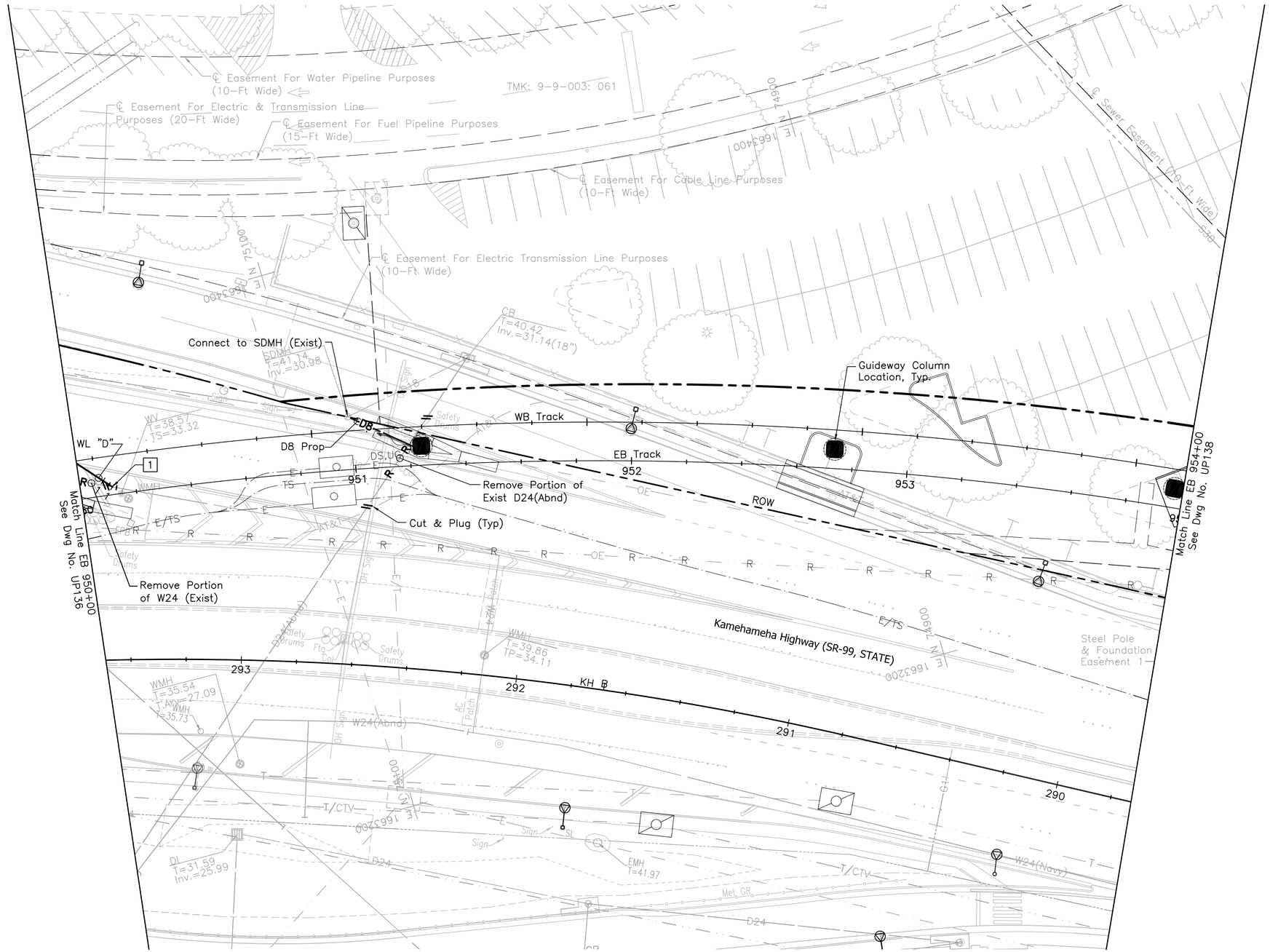
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 945+00 TO EB 950+00

Contract No.: DB-320
CADD File: KHDB-D03-UP136
Drawing No: UP136 Rev. A
Scale: 1"=20'
Page No. 83 of 186

2010-03-12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP122-UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

WATER CONSTRUCTION NOTES:

1 STA 293+45.49 KH ℄, O/S 62.76' Rt.
=1+04.02 WL "D"
Connect to W24 (Exist)
1–24" ½ Bend (H), D.I.
1–Conc Block w/ Structural Struts
1–24" Sleeve, 15' Long
8± LF 24" D.I. Pipe, Cl. 52
Temp for Testing:
1–24" Cap w/ 6" C.O.
1–Conc Blk.

20' 0' 20'

Rev	By	Date	Description
A	JY	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819–3470

For reduced prints, original page size in inches: 0 1 2 3 4

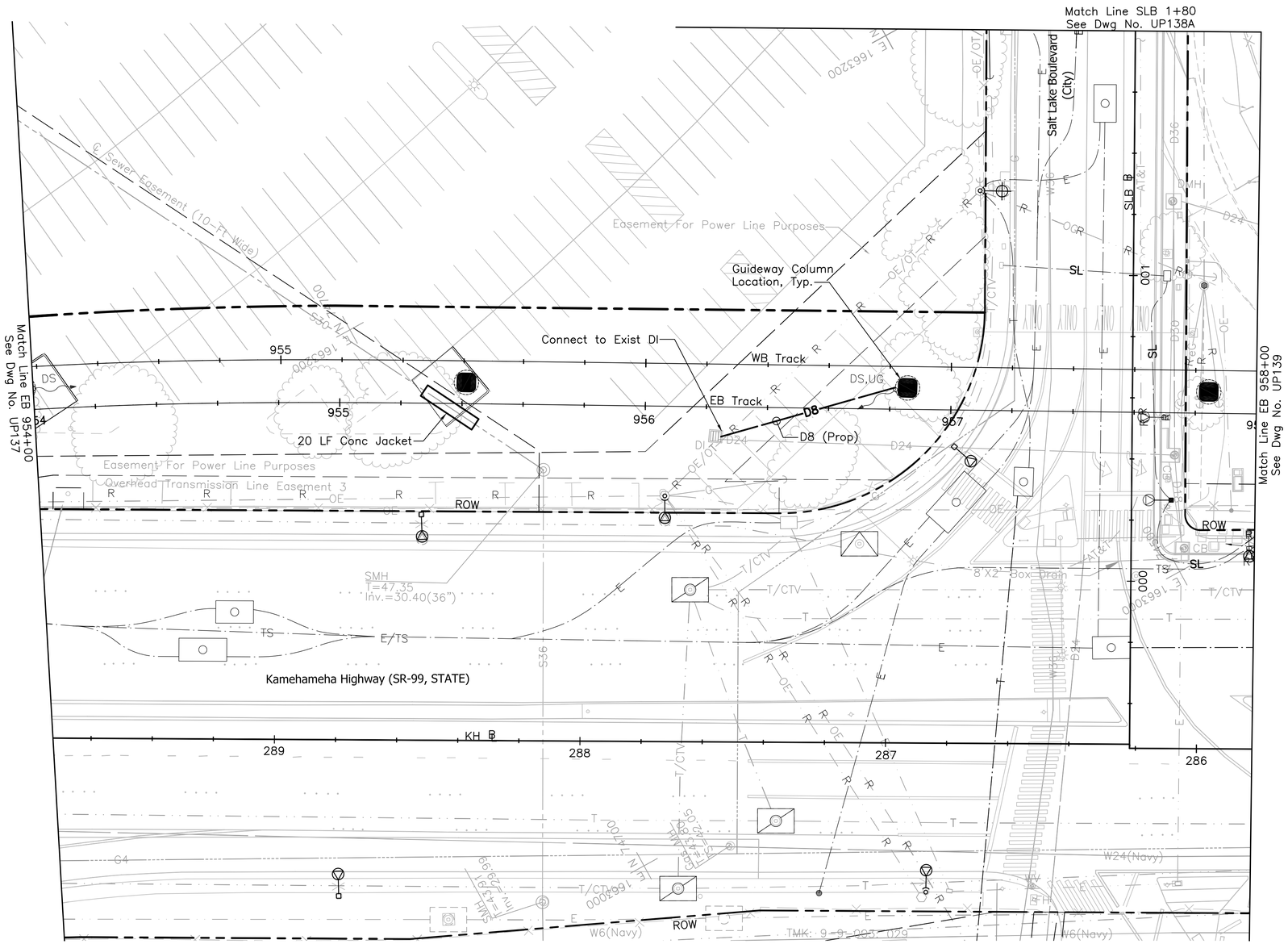
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 945+00 TO EB 950+00

Contract No.: DB–320
CADD File: KHDB–D03–UP137
Drawing No: UP137 Rev. A
Scale: 1"=20'
Page No. 84 of 186

2010–03–12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB–D03–UP122–UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

20' 0' 20'

Rev	By	Date	Description
A	JY	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819–3470

For reduced prints, original page size in inches: 0 1 2 3 4

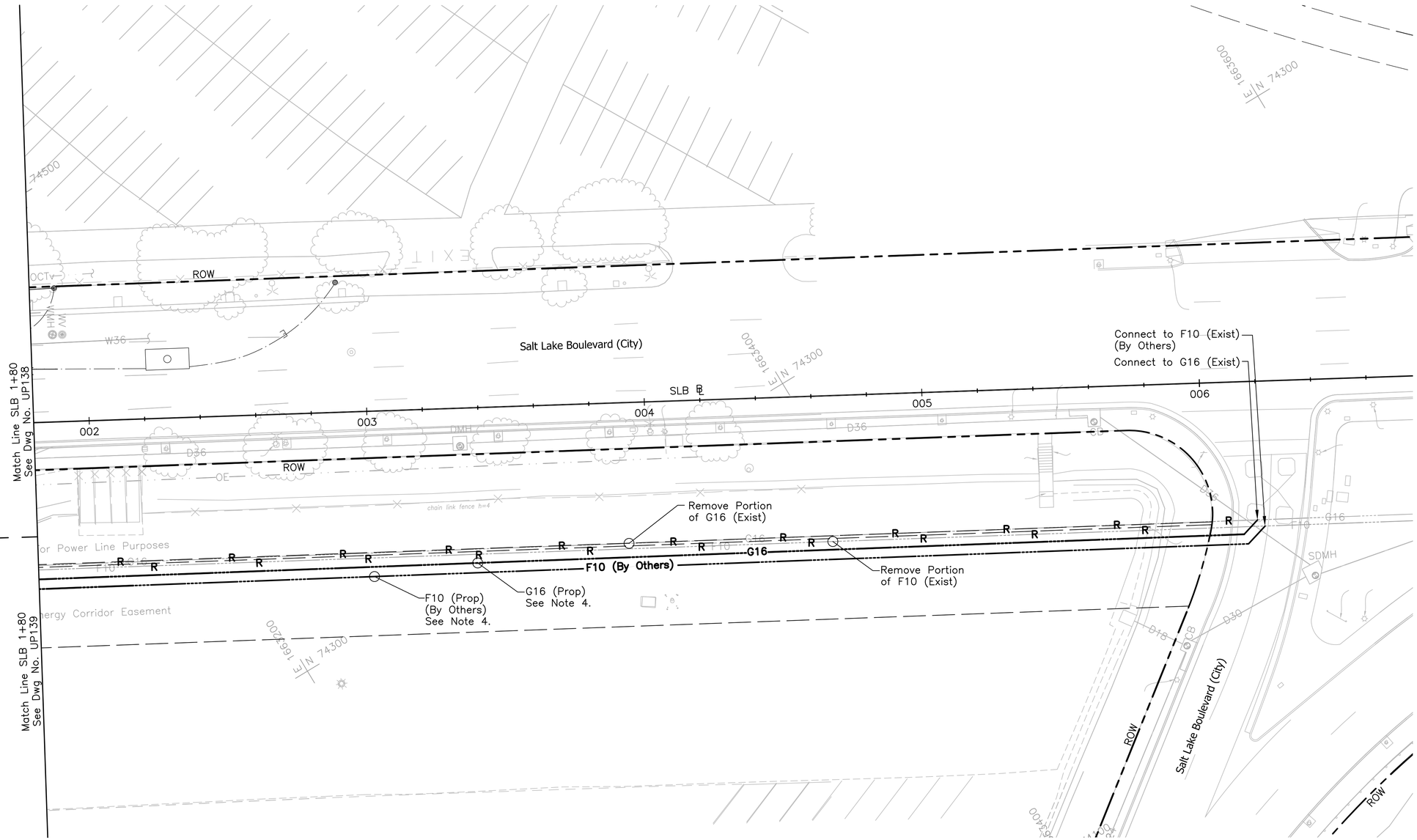
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 954+00 TO EB 958+00

Contract No.: DB–320
CADD File: KHDB–D03–UP138
Drawing No: UP138 Rev. A
Scale: 1"=20'
Page No. 85 of 186

2010–03–12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB–D03–UP122–UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase
4. Coordinate depth of relocation with Aloha Stadium Station Contract to provide a minimum 3' cover based on proposed grade.

20' 0' 20'

Rev	By	Date	Description
A	JY	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819–3470

For reduced prints, original page size in inches: 0 1 2 3 4

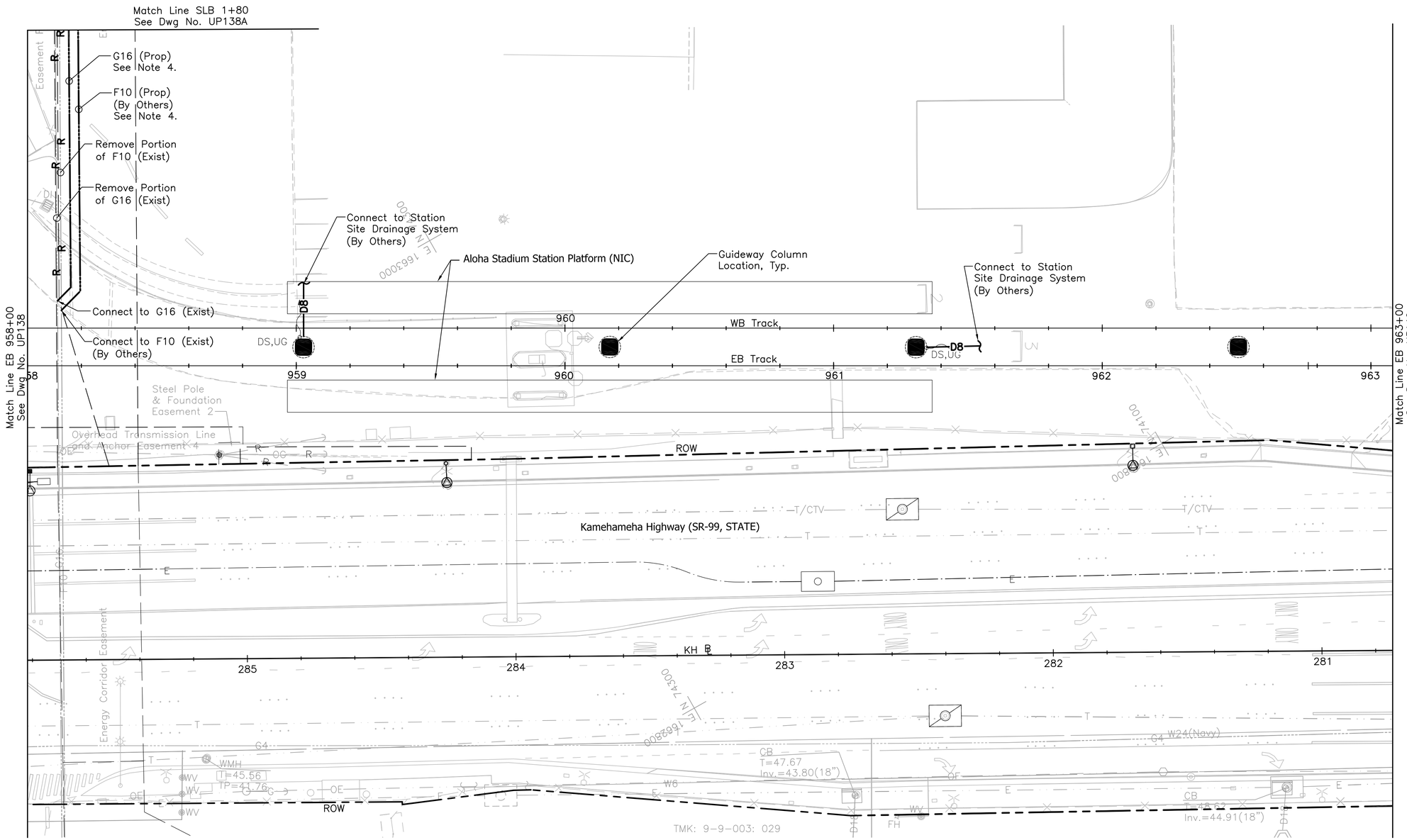
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

SLB 1+80 TO END

Contract No.: DB–320
CADD File: KHDB–D03–UP138A
Drawing No: UP138A Rev. A
Scale: 1"=20'
Page No. 86 of 186

2010–03–12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB–D03–UP122–UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase
4. Coordinate depth of relocation with Aloha Stadium Station Contract to provide a minimum 3' cover based on proposed grade.

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

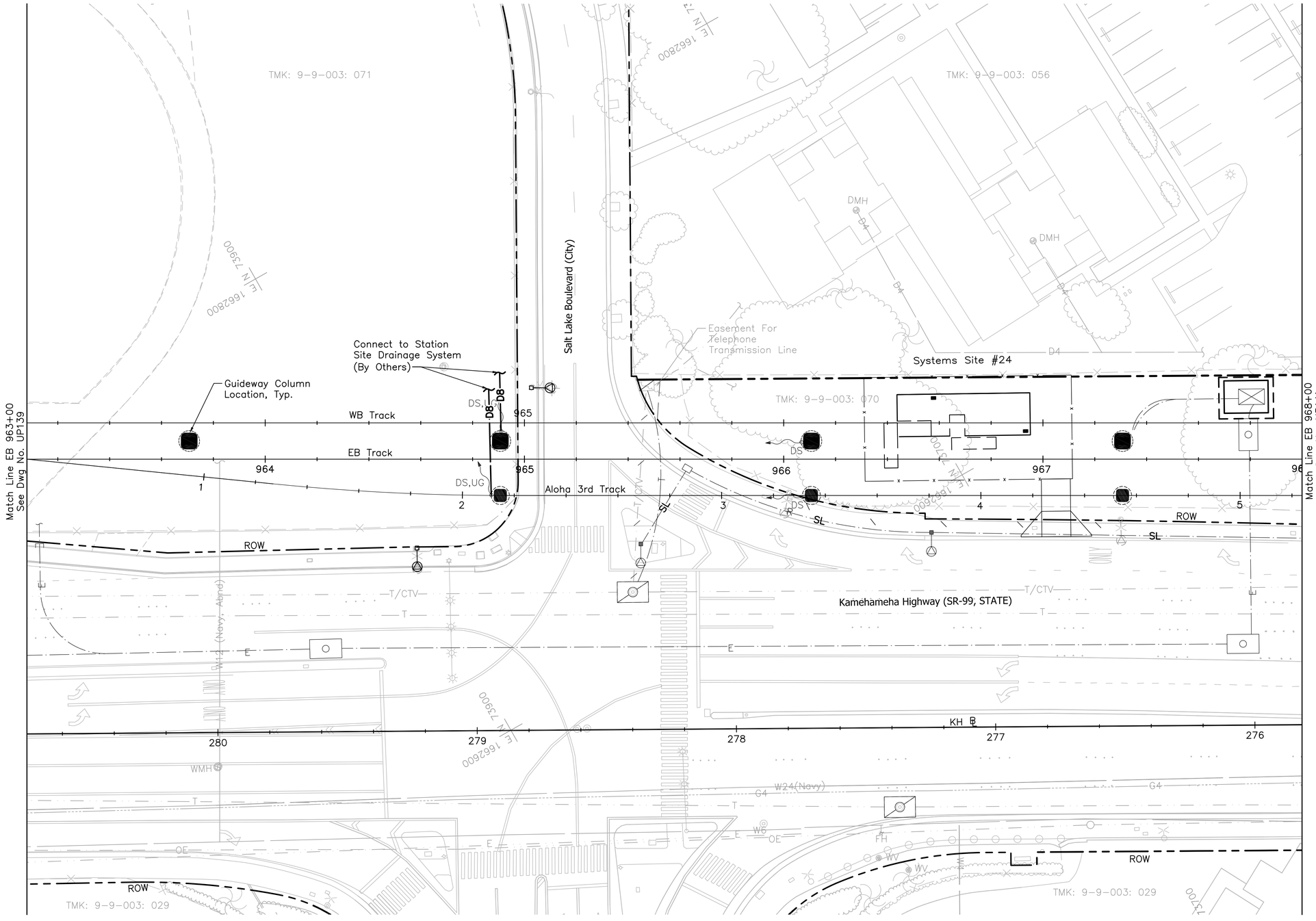
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 958+00 TO EB 963+00

Contract No.: DB-320
CADD File: KHDB-D03-UP139
Drawing No.: UP139 Rev. A
Scale: 1"=20'
Page No. 87 of 186

2010-03-12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP122-UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

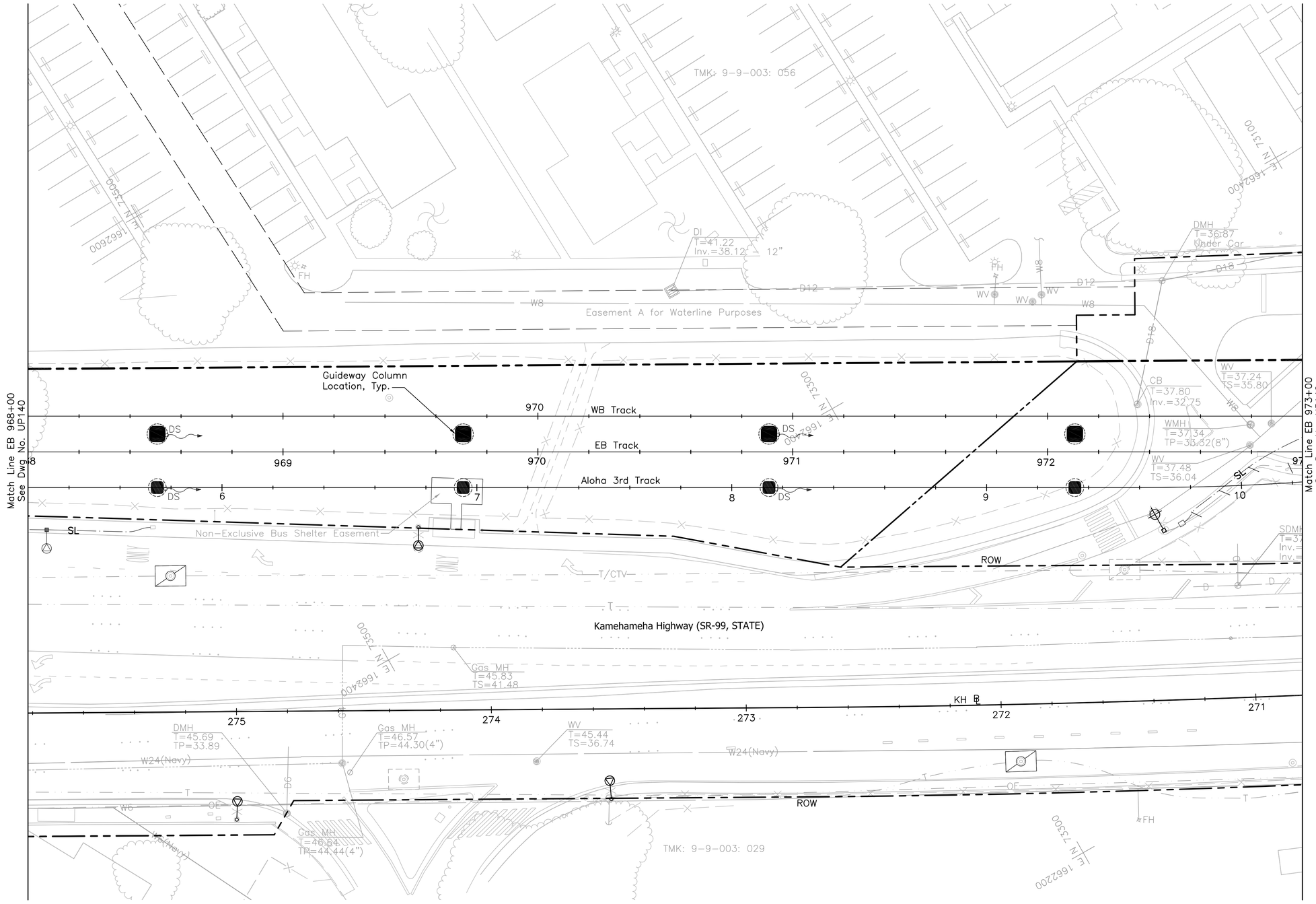
UTILITY RELOCATION PLAN

WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 963+00 TO EB 968+00

Contract No.: DB-320
CADD File: KHDB-D03-UP140
Drawing No: UP140 Rev. A
Scale: 1"=20'
Page No. 88 of 186

2010-03-12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP122-UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

Rev	By	Date	Description
A	JY	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning – Engineering – Environmental Services – Photogrammetry – Surveying – Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819–3470

For reduced prints, original page size in inches: 0 1 2 3 4

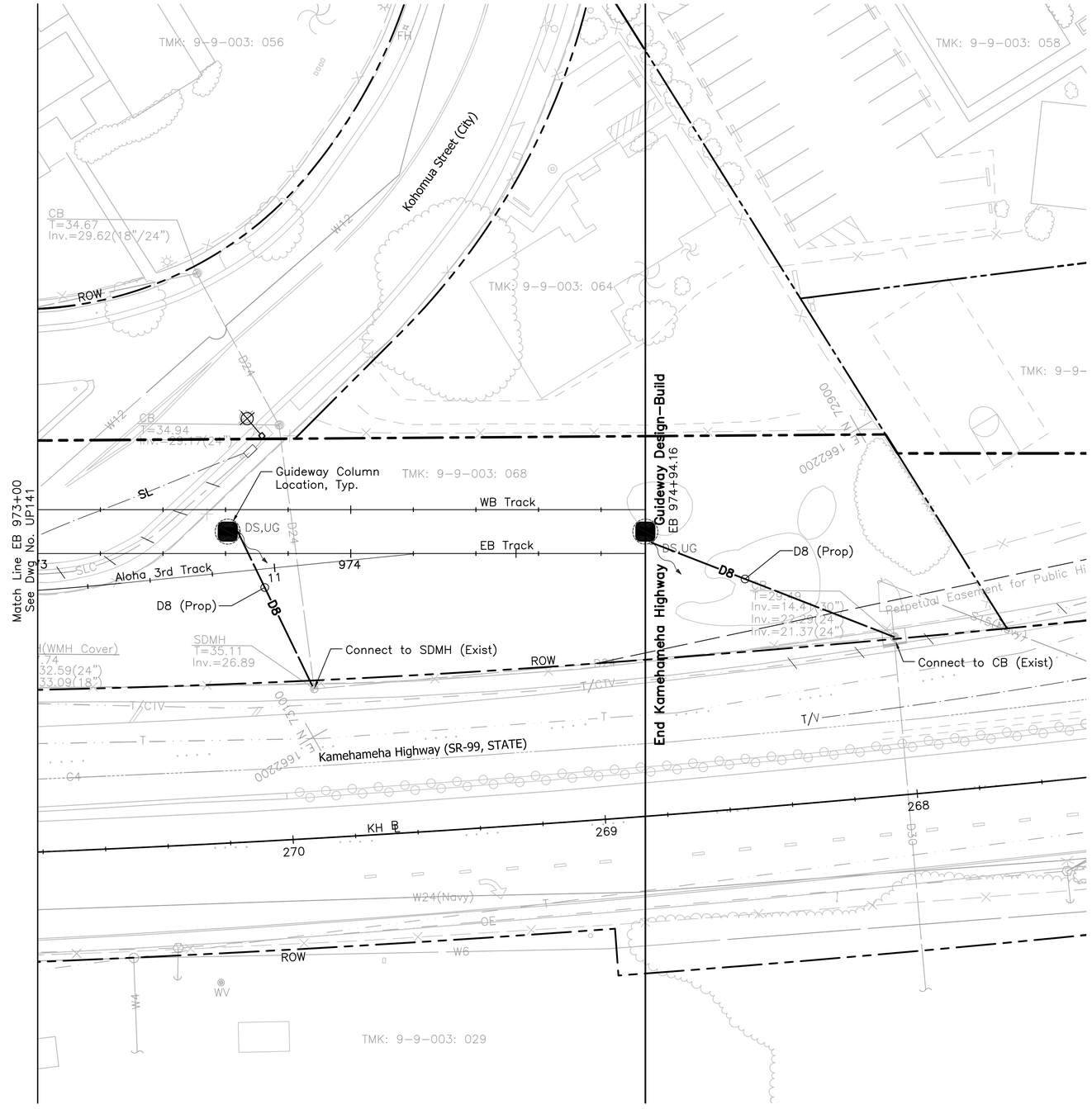
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 968+00 TO EB 973+00

Contract No.: DB–320
CADD File: KHDB–D03–UP141
Drawing No: UP141 Rev. A
Scale: 1"=20'
Page No. 89 of 186

2010–03–12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB–D03–UP122–UP142.dwg



NOTES:

1. For General Utilities Symbols and Abbreviations, see Dwg No. UG001.
2. For Electrical & Communication Notes and Symbols, see Dwg No. UG007.
3. Catch basin inlets assumed for the proposed drainage relocation. Inlet type to be verified during the final design phase

20' 0' 20'

Rev	By	Date	Description
A	JY	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: G Tom
Drawn: K Tanaka
Checked: H Andrews
Approved: J Yamamoto
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: R. M. TOWILL CORPORATION
Planning - Engineering - Environmental Services - Photogrammetry - Surveying - Construction Management
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3470

For reduced prints, original page size in inches: 0 1 2 3 4

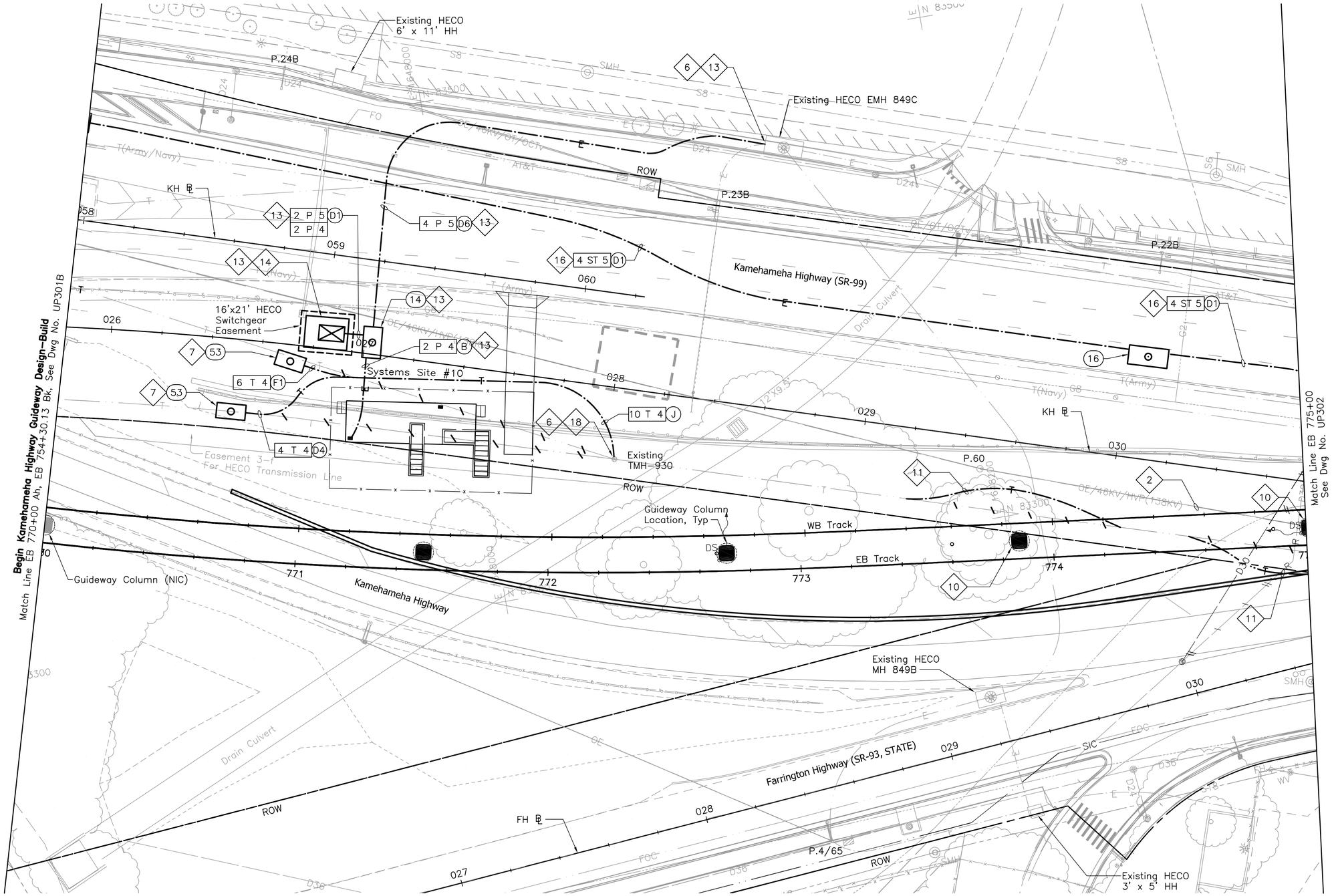
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
WATER, SEWER, DRAINAGE, PETROLEUM, & GAS

EB 973+00 TO END

Contract No.: DB-320
CADD File: KHDB-D03-UP142
Drawing No: UP142 Rev. A
Scale: 1"=20'
Page No. 90 of 186

2010-03-12 4:07 PM K:\civil\21132 Honolulu Transit Corridor\Segment D\Sheet Files\KHDB-D03-UP122-UP142.dwg



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

2 Remove 46kV conductors only (By Others). 138kV conductors to remain.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

7 Intercept existing duct line with new manhole, handhole, or pullbox as indicated. Demolish concrete jacket and duct within manhole, handhole, or pullbox as indicated and expose cables. Preserve cables during demolition of duct.

8 Replace existing handhole with new manhole. Restore walls as necessary.

10 Hand-dig area around proposed column/pole location to locate and expose existing utility ducts. Protect ducts during column/pole installation and restore area upon completion of column/pole installation.

11 Coordinate with utility owner to re-route conduits and cables around guideway column.

13 Preliminary new HECO service design only; coordinate with HECO for plans.

14 Provide switchgear concrete pad (switchgear by HECO). See Detail 1/UP405

16 See Detail 2/UP403.

18 Enlarge existing manhole, handhole, or pullbox as indicated.

24 Re-route existing ducts and cables to new manhole or handhole, and demolish existing handhole.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

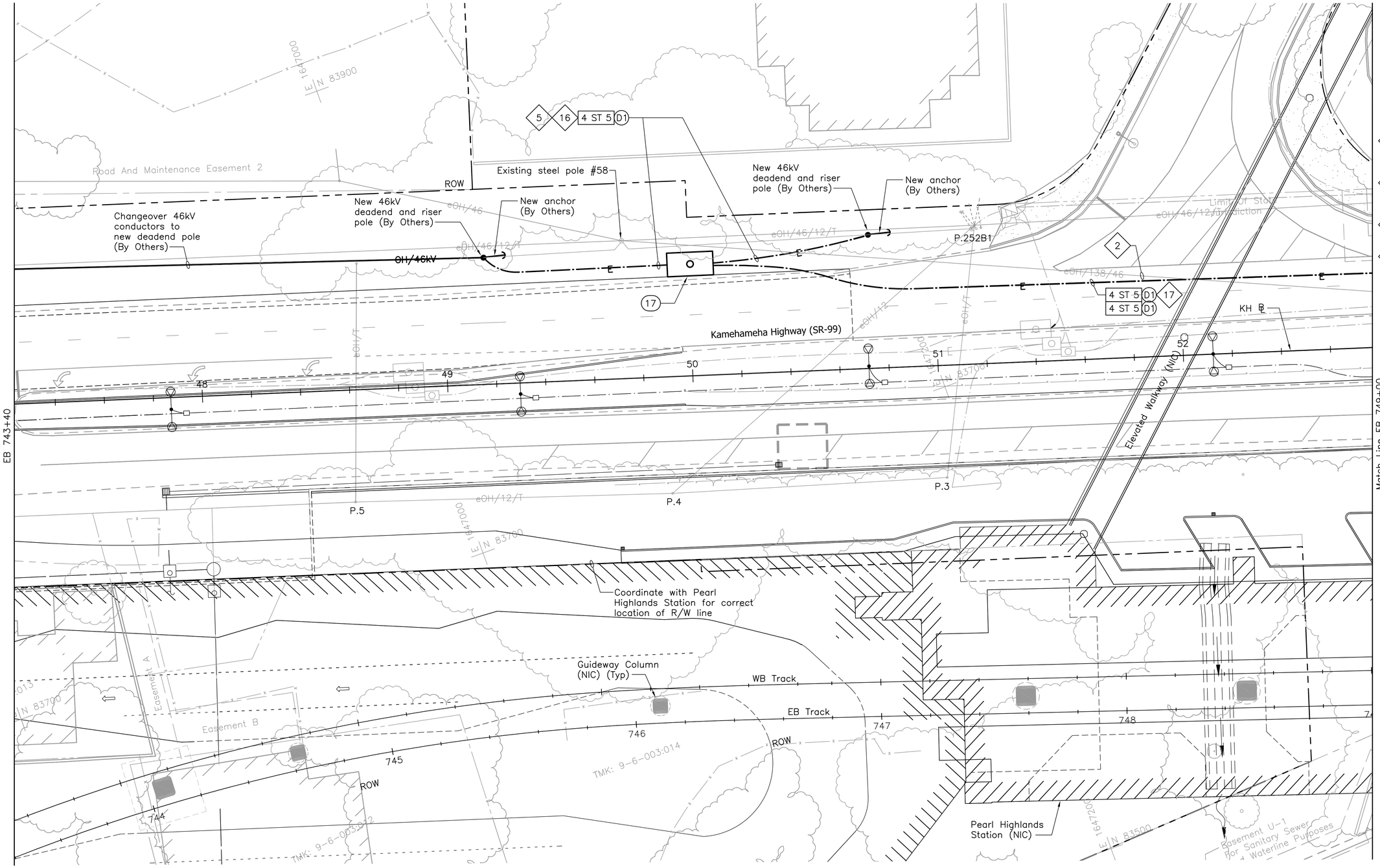
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 770+00 TO EB 775+00

Contract No.: DB-320
CADD File: KHDB-D03-UP301
Drawing No: UP301 Rev. A
Scale: 1"=20'
Page No. 94 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP301, 3/12/2010 4:17:16 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

2 Remove 46kV conductors only (By Others). 138kV conductors to remain.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

16 See Detail 2/UP403.

17 See Detail 3/UP403.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

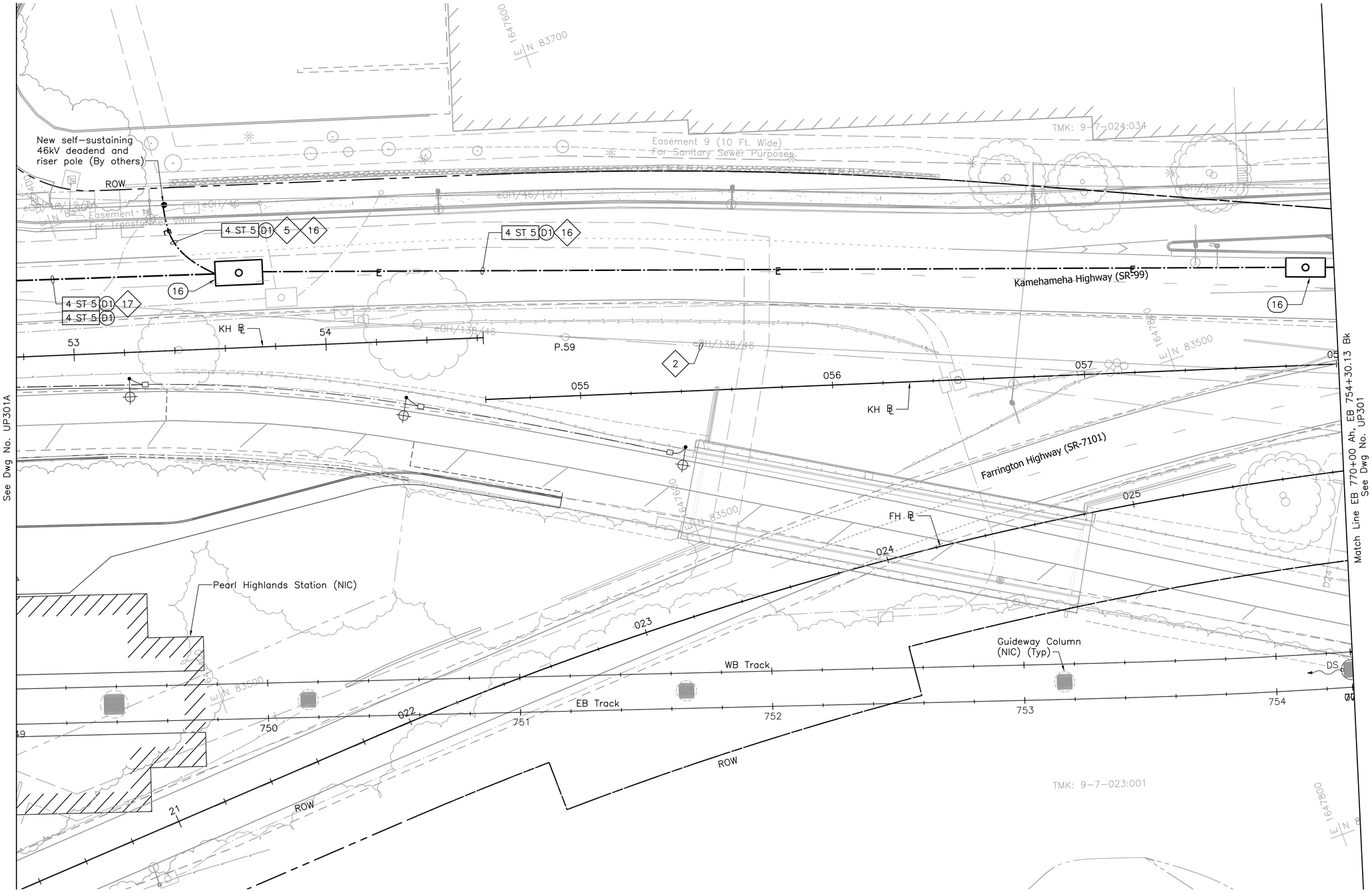
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 743+40 TO EB 749+00

Contract No.: DB–320
CADD File: KHDB–D03–UP301A
Drawing No: UP301A
Rev. A
Scale: 1"=20'
Page No. 95 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP301A, 3/12/2010 4:13:50 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

2 Remove 46kV conductors only (By Others). 138kV conductors to remain.

16 See Detail 2/UP403.

17 See Detail 3/UP403.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

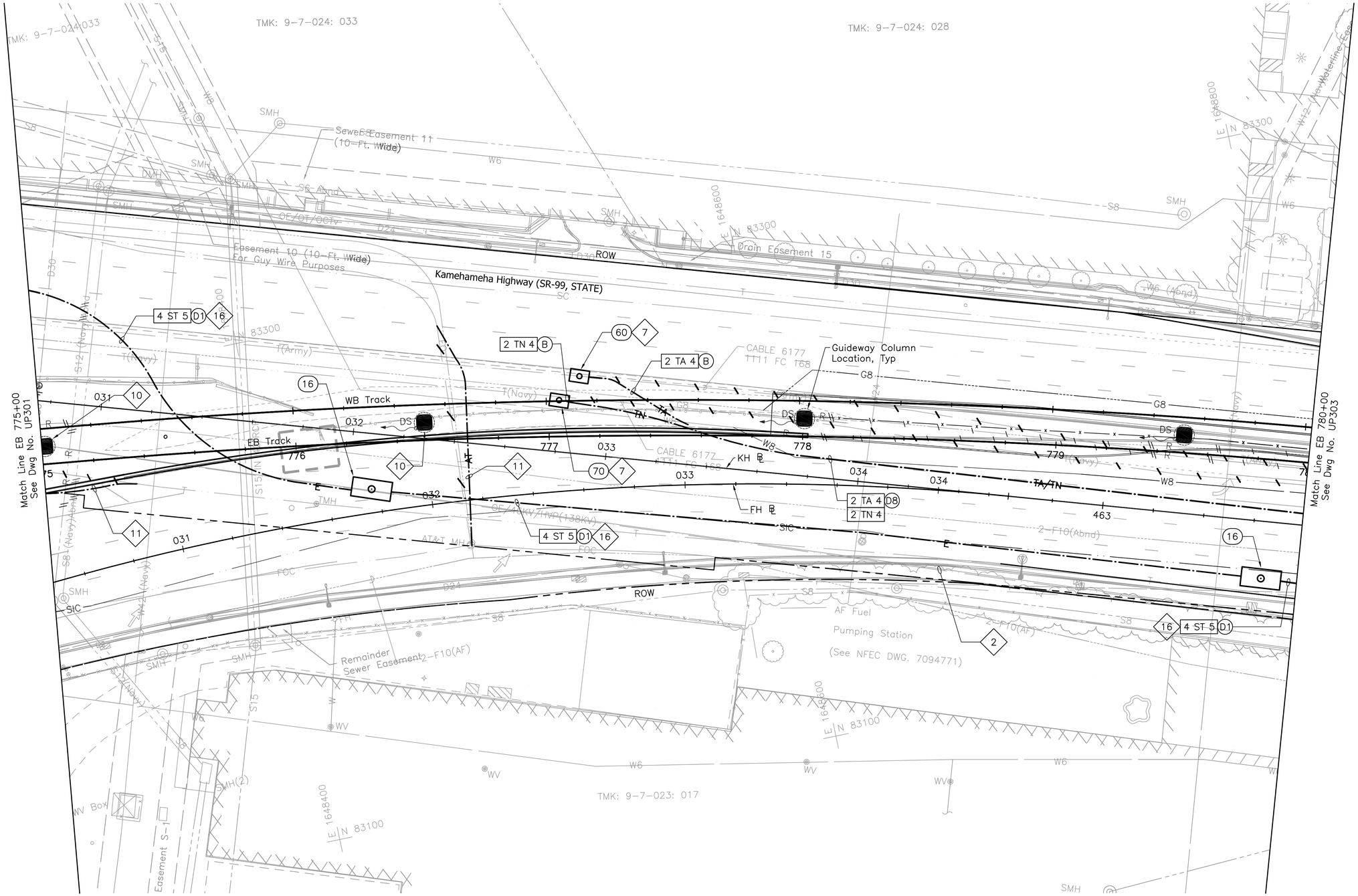
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 749+00 TO EB 754+30.13

Contract No.: DB-320
CADD File: KHDB-D03-UP301B
Drawing No: UP301B
Rev. A
Scale: 1"=20'
Page No. 96 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP301B, 3/12/2010 4:16:02 PM, deyn, 1:1



N

NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

2 Remove 46kV conductors only (By Others). 138kV conductors to remain.

7 Intercept existing duct line with new manhole, handhole, or pullbox as indicated. Demolish concrete jacket and duct within manhole, handhole, or pullbox as indicated and expose cables. Preserve cables during demolition of duct.

10 Hand-dig area around proposed column/pole location to locate and expose existing utility ducts. Protect ducts during column/pole installation and restore area upon completion of column/pole installation.

11 Coordinate with utility owner to re-route conduits and cables around guideway column.

16 See Detail 2/UP403.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF, 1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers, 286 Kalihi Street, Honolulu, Hawaii 96819, Phone: (808) 848-8622, Fax: (808) 848-5574, E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

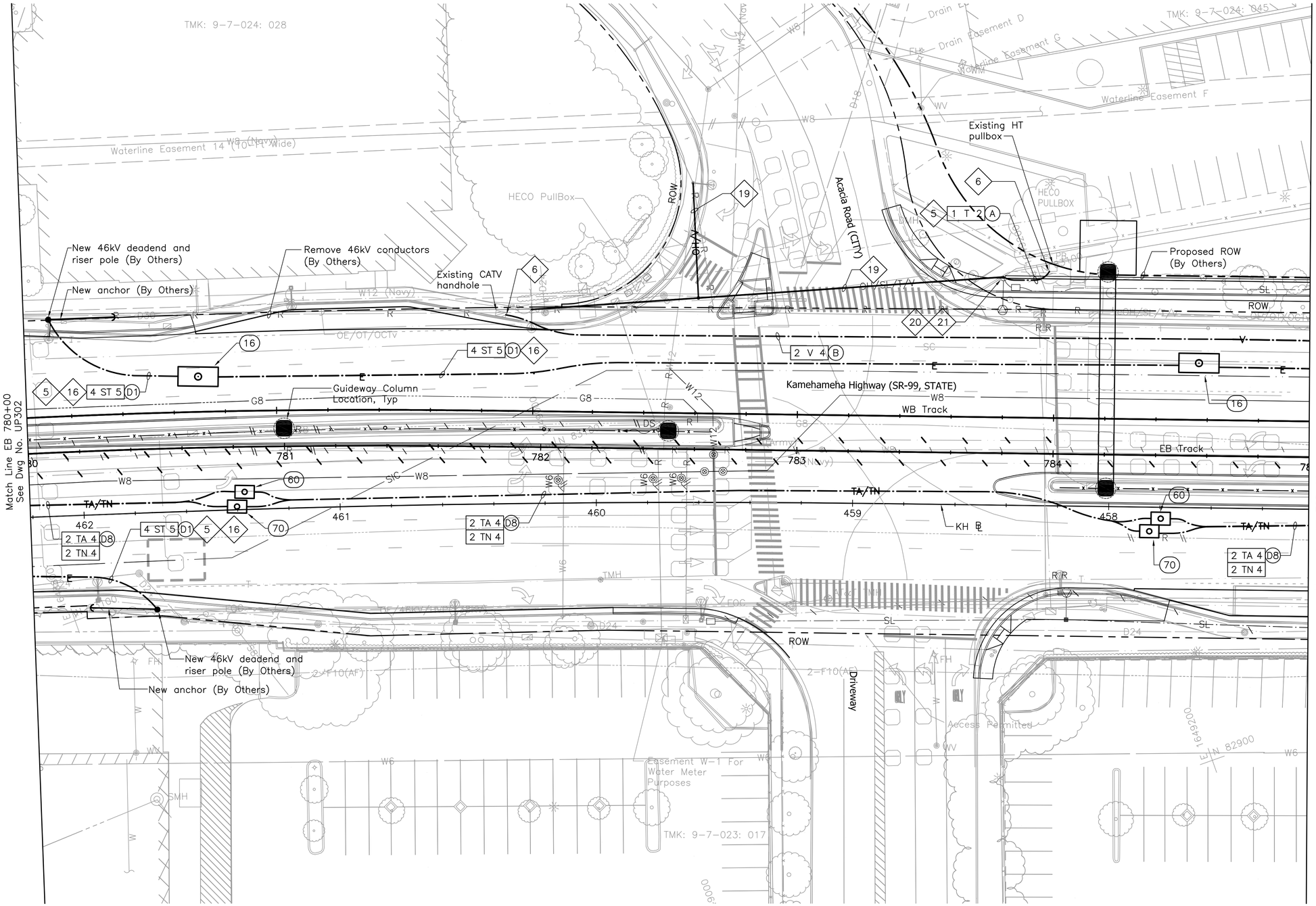
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
ELECTRICAL & COMMUNICATIONS

EB 775+00 TO EB 780+00

Contract No.: DB-320
CADD File: KHDB-D03-UP302
Drawing No: UP302 Rev. A
Scale: 1"=20'
Page No. 97 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCIP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP302, 3/12/2010 4:21:12 PM, deyn, 1:1



N

NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

16 See Detail 2/UP403.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

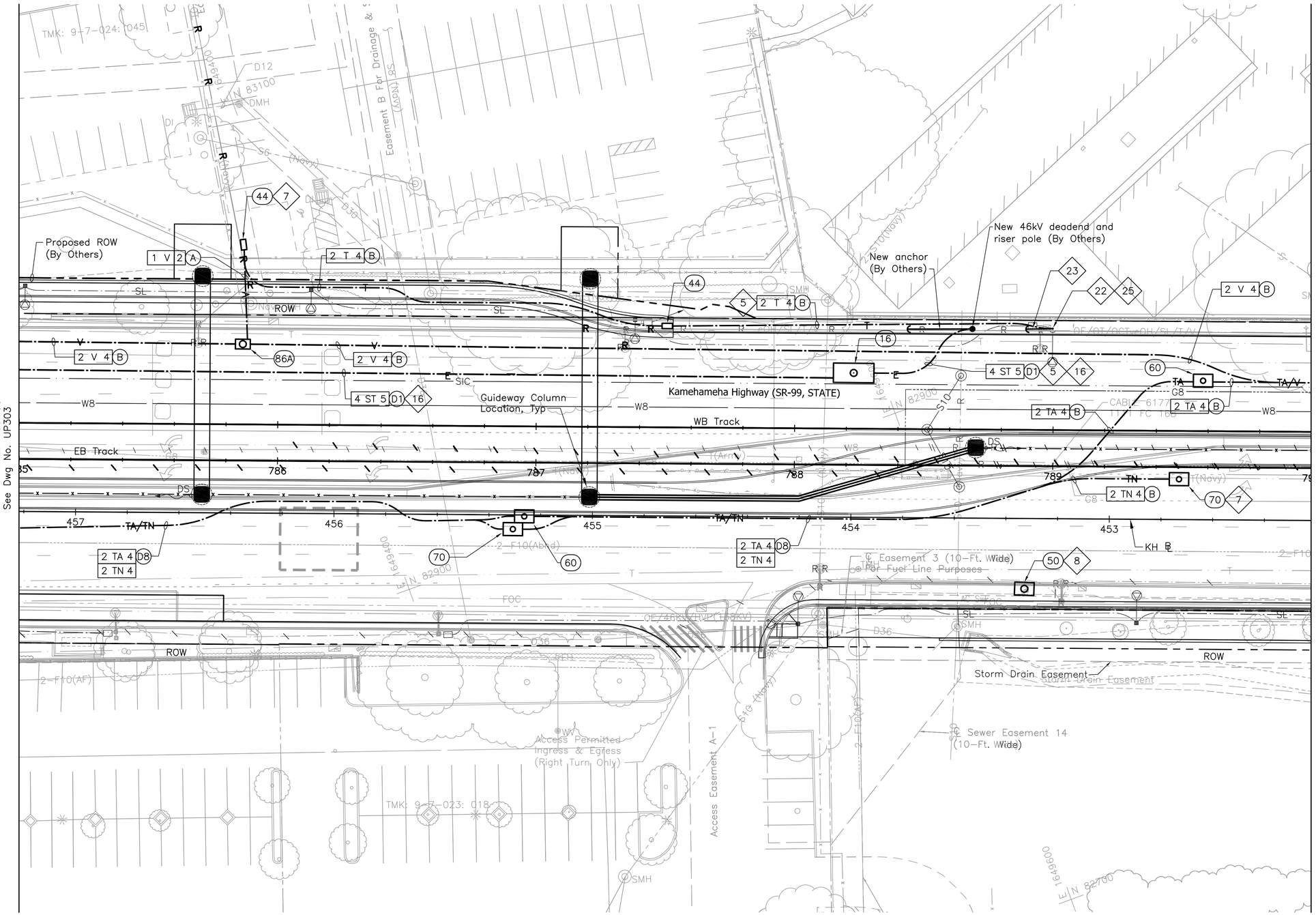
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 780+00 TO EB 785+00

Contract No.: DB-320
CADD File: KHDB-D03-UP303
Drawing No: UP303 Rev. A
Scale: 1"=20'
Page No. 98 of 186

P:\01_PROJECTS\2007\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP303, 3/16/2010 10:03:27 AM, deym, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

7 Intercept existing duct line with new manhole, handhole, or pullbox as indicated. Demolish concrete jacket and duct within manhole, handhole, or pullbox as indicated and expose cables. Preserve cables during demolition of duct.

8 Replace existing handhole with new manhole. Restore walls as necessary.

16 See Detail 2/UP403.

22 Provide new wood joint pole. See Detail 1/UP407.

23 Provide new anchor. See Detail 3/UP407.

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

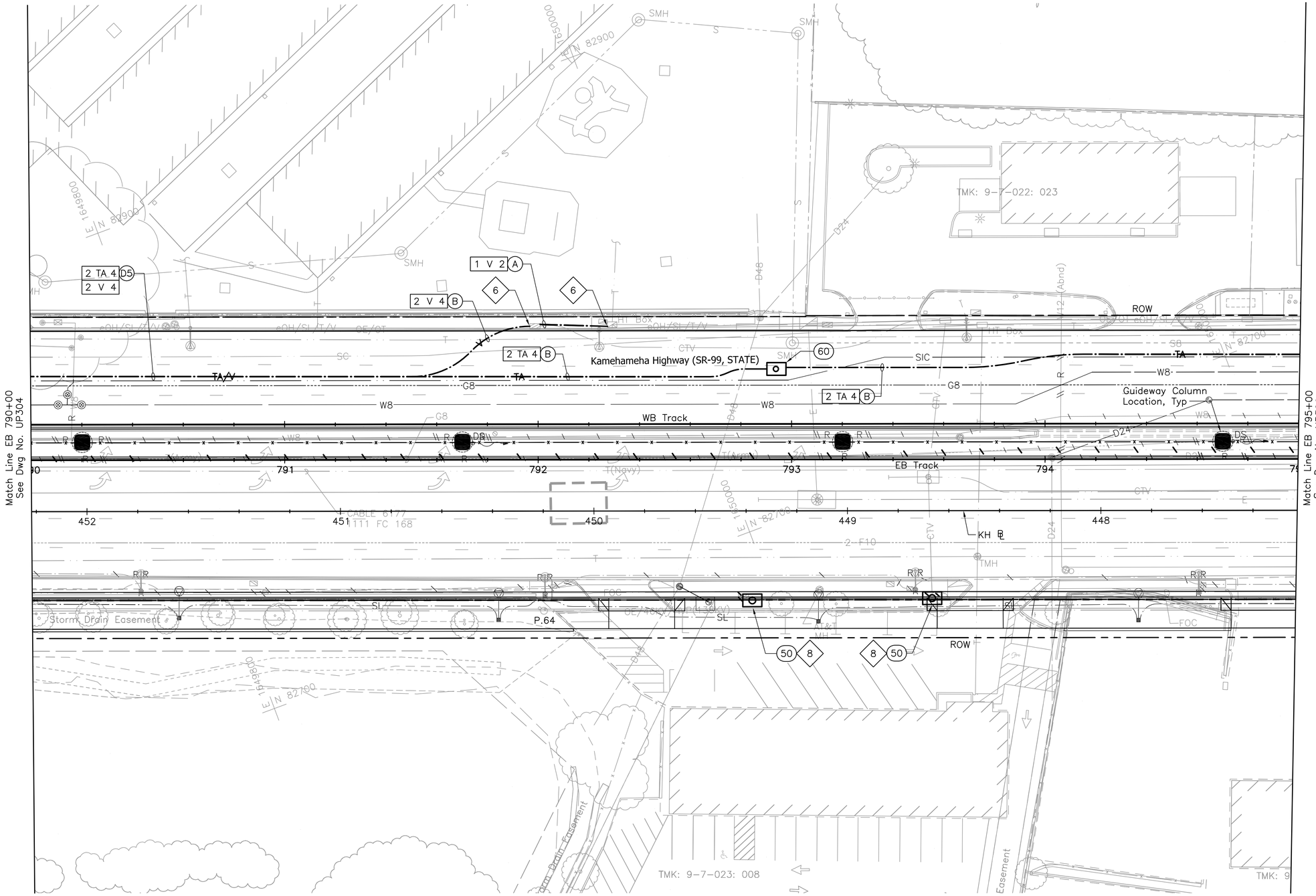
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
ELECTRICAL & COMMUNICATIONS

EB 785+00 TO EB 790+00

Contract No.: DB–320
CADD File: KHDB–D03–UP304
Drawing No: UP304 Rev. A
Scale: 1"=20'
Page No. 99 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP304, 3/12/2010 4:26:20 PM, deyn, 1:1



N

NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

8 Replace existing handhole with new manhole. Restore walls as necessary.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

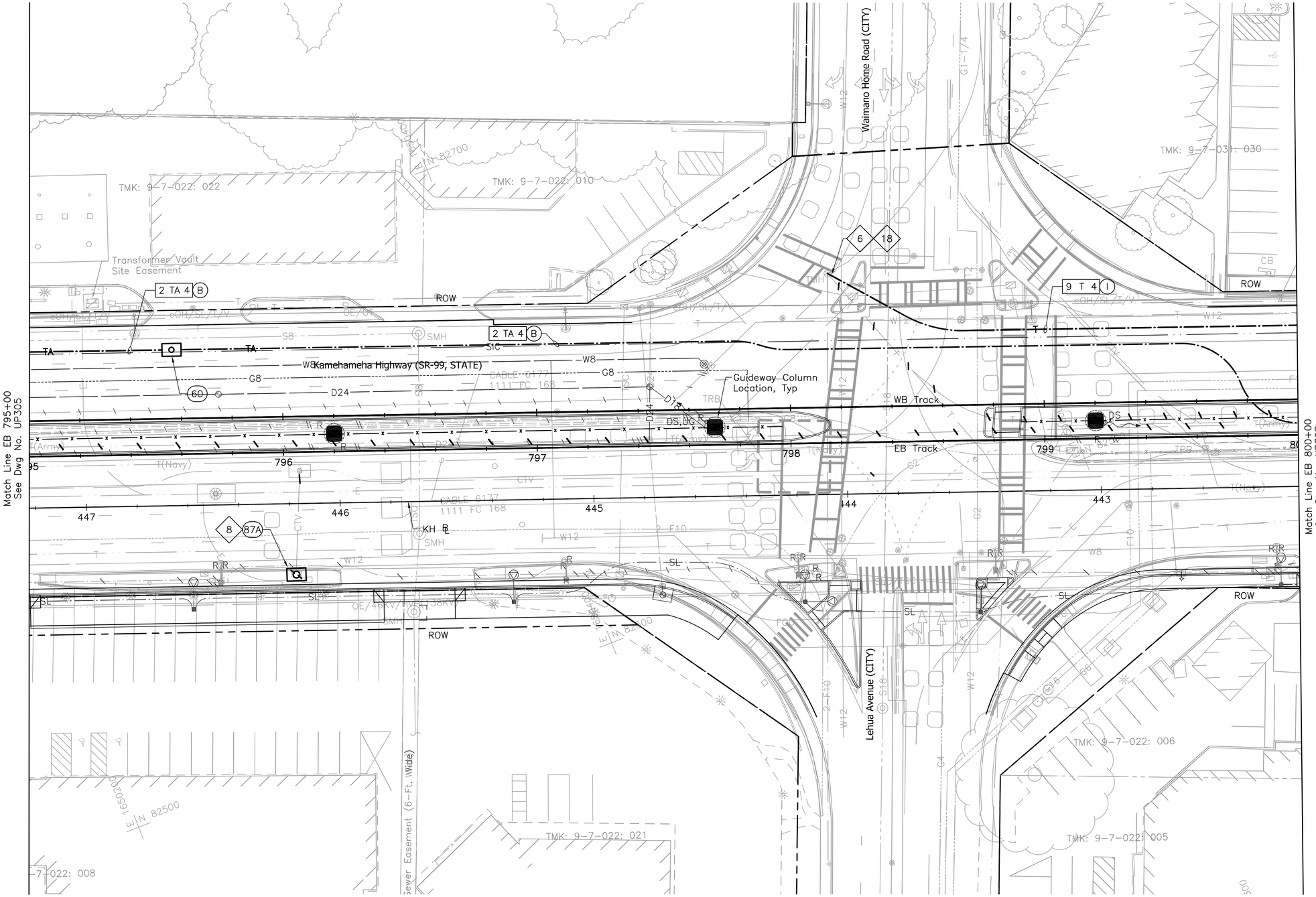
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
ELECTRICAL & COMMUNICATION

EB 790+00 TO EB 795+00

Contract No.: DB–320
CADD File: KHDB–D03–UP305
Drawing No: UP305
Rev. A
Scale: 1"=20'
Page No. 100 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP305, 3/12/2010 4:38:44 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

8 Replace existing handhole with new manhole. Restore walls as necessary.

18 Enlarge existing manhole, handhole, or pullbox as indicated.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

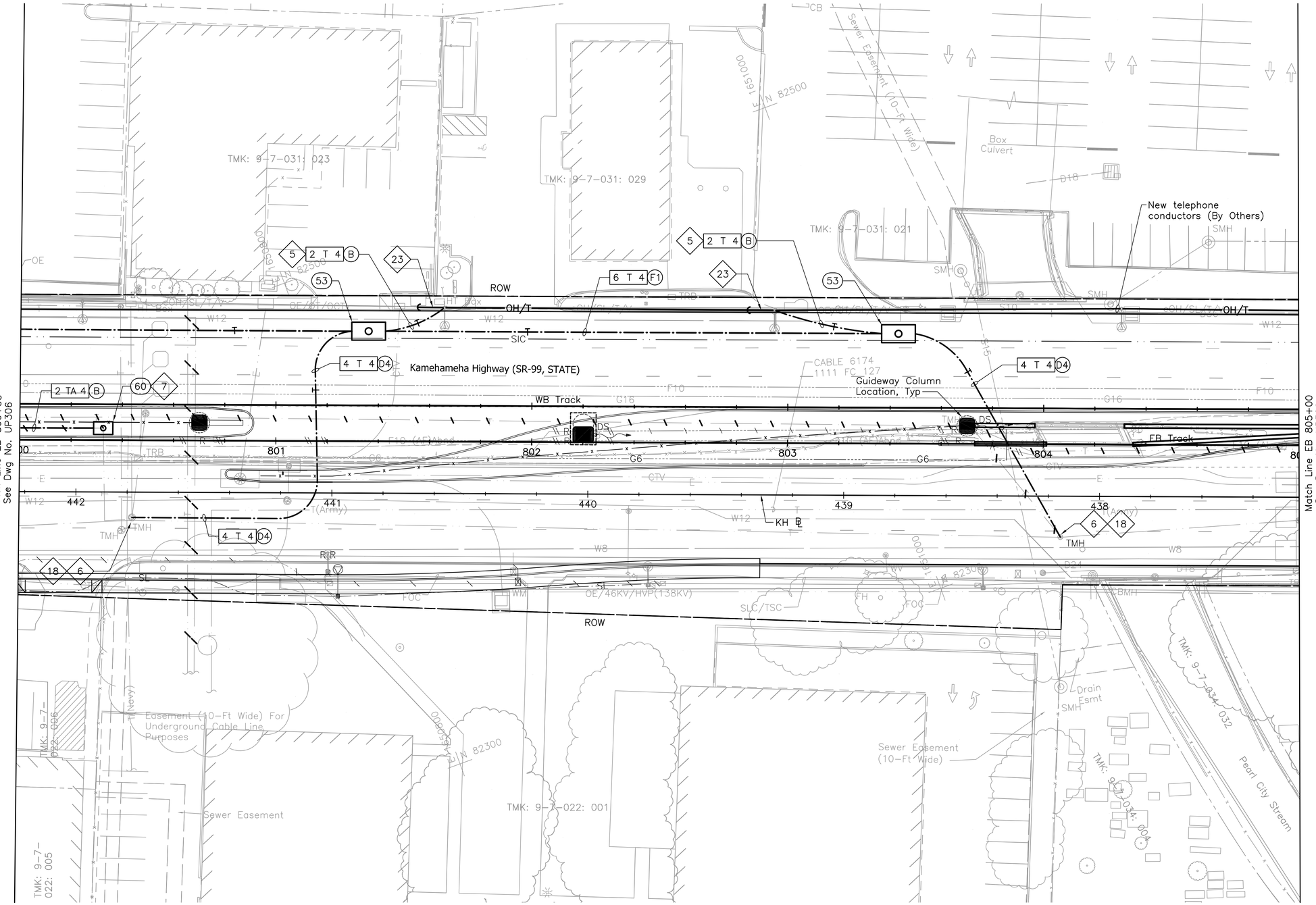
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 795+00 TO EB 800+00

Contract No.: DB–320
CADD File: KHDB–D03–UP306
Drawing No: UP306 Rev. A
Scale: 1"=20'
Page No. 101 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP306, 3/12/2010 4:39:48 PM, deyn, 1:1



NOTES:

1a. See Dwg. No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

7 Intercept existing duct line with new manhole, handhole, or pullbox as indicated. Demolish concrete jacket and duct within manhole, handhole, or pullbox as indicated and expose cables. Preserve cables during demolition of duct.

18 Enlarge existing manhole, handhole, or pullbox as indicated.

23 Provide new anchor. See Detail 3/UP407.

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

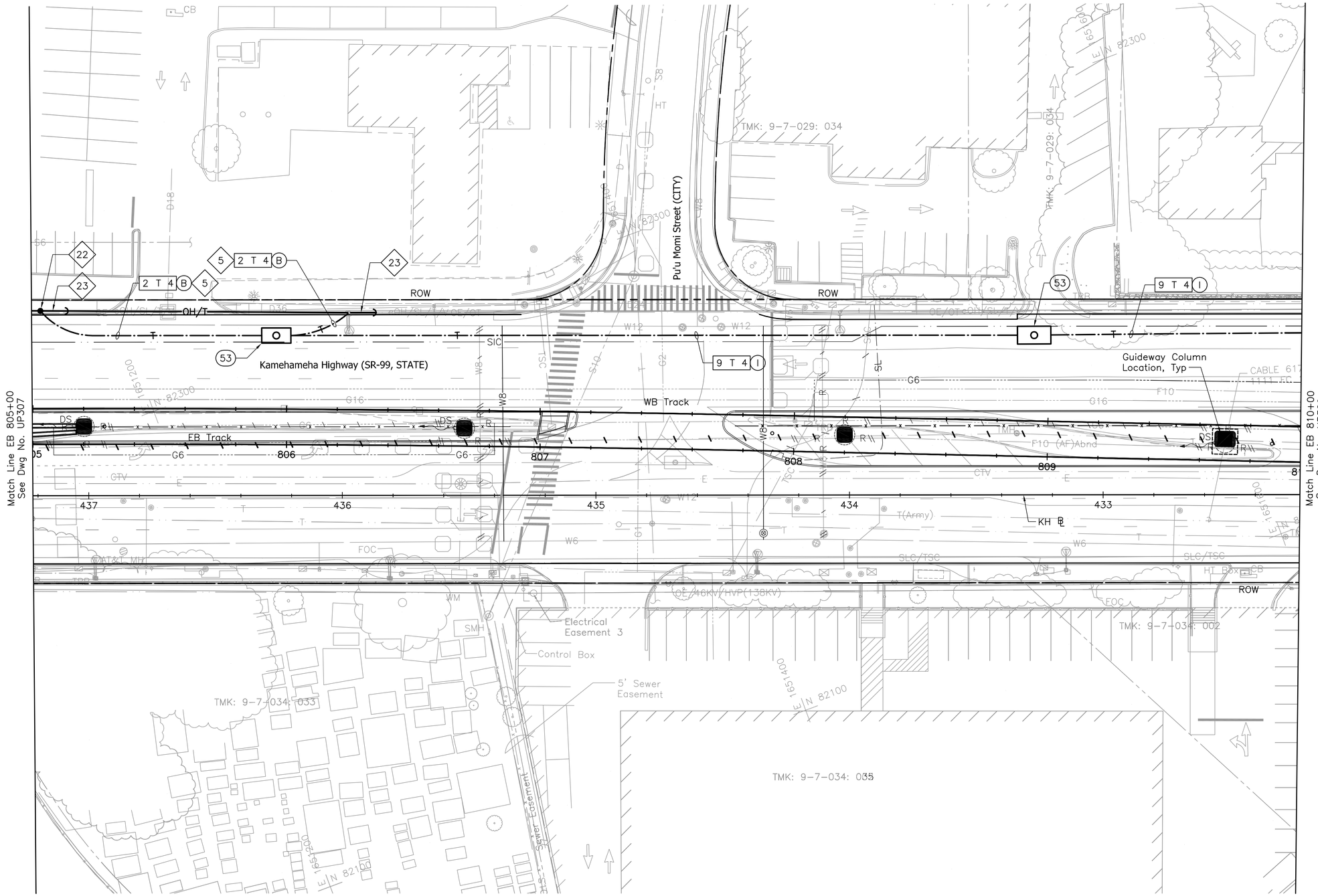
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 800+00 TO EB 805+00

Contract No.: DB–320
CADD File: KHDB–D03–UP307
Drawing No: UP307
Rev. A
Scale: 1"=20'
Page No. 102 of 186

Q:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP307, 3/12/2010 4:41:24 PM, deyn, 1:1



N

NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

22 Provide new wood joint pole. See Detail 1/UP407.

23 Provide new anchor. See Detail 3/UP407.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

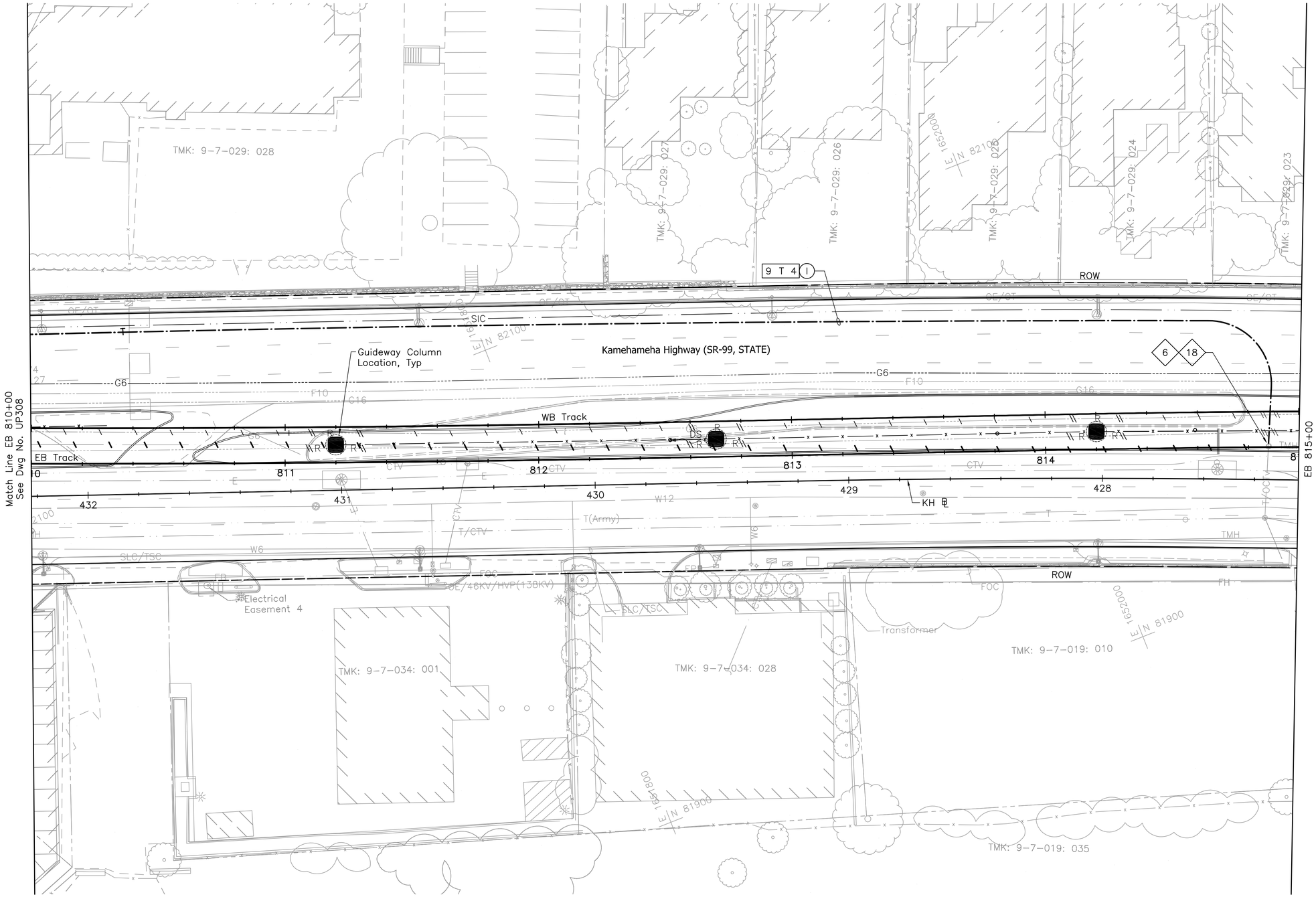
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
ELECTRICAL & COMMUNICATIONS

EB 805+00 TO EB 810+00

Contract No.: DB–320
CADD File: KHDB–D03–UP308
Drawing No: UP308 Rev. A
Scale: 1"=20'
Page No. 103 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP308, 3/12/2010 4:42:10 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

18 Enlarge existing manhole, handhole, or pullbox as indicated.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

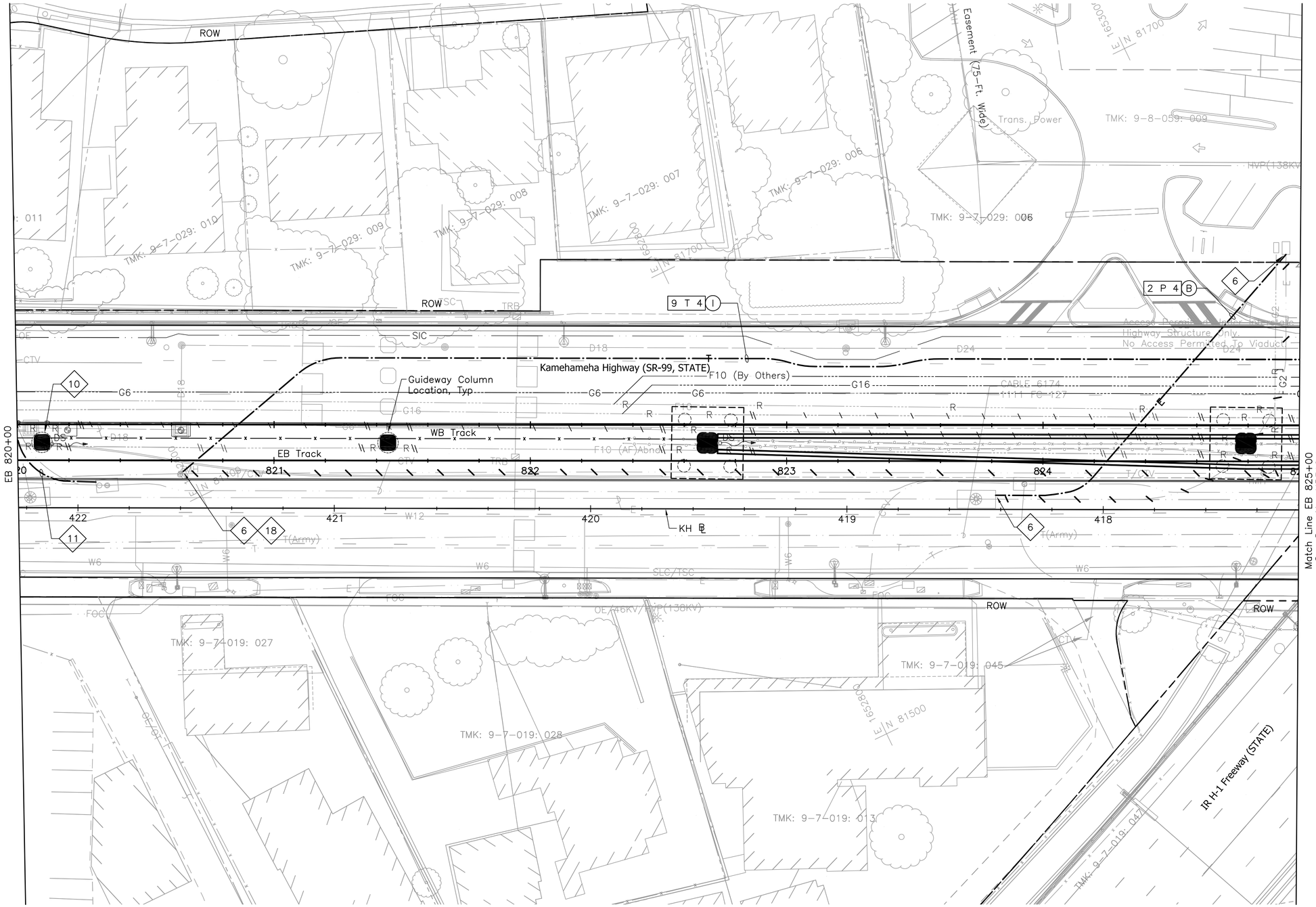
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
ELECTRICAL & COMMUNICATIONS

EB 810+00 TO EB 815+00

Contract No.: DB–320
CADD File: KHDB–D03–UP309
Drawing No: UP309 Rev. A
Scale: 1"=20'
Page No. 104 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP309, 3/12/2010 4:43:22 PM, deyn, 1:1



N

NOTES:

1a. See Dwg. No UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

10 Hand-dig area around proposed column/pole location to locate and expose existing utility ducts. Protect ducts during column/pole installation and restore area upon completion of column/pole installation.

11 Coordinate with utility owner to re-route conduits and cables around guideway column.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

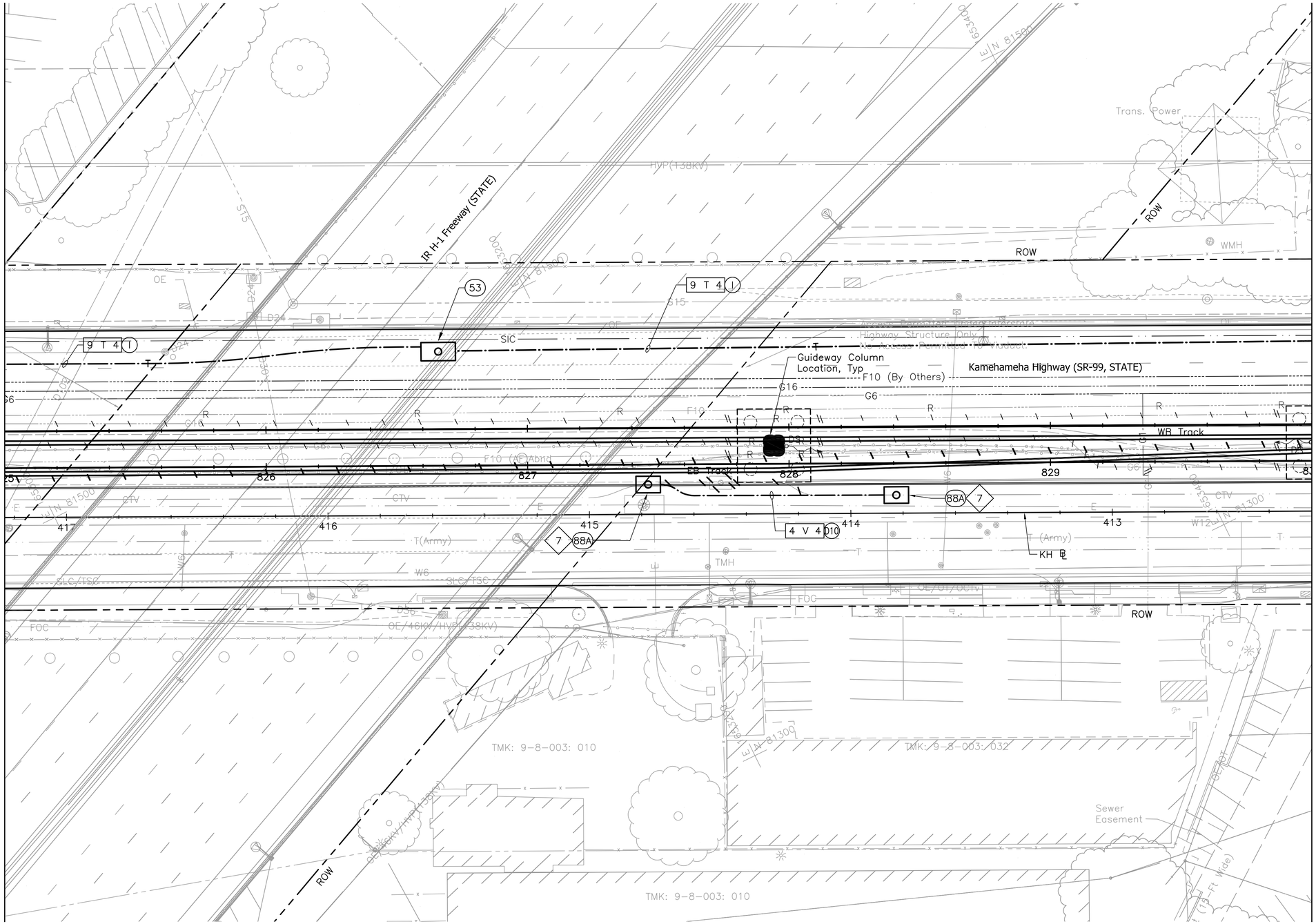
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECRICAL & COMMUNICATIONS

EB 820+00 TO EB 825+00

Contract No.: DB-320
CADD File: KHDB-D03-UP311
Drawing No: UP311 Rev. A
Scale: 1"=20'
Page No. 105 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP311, 3/12/2010 4:43:59 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

7 Intercept existing duct line with new manhole, handhole, or pullbox as indicated. Demolish concrete jacket and duct within manhole, handhole, or pullbox as indicated and expose cables. Preserve cables during demolition of duct.

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

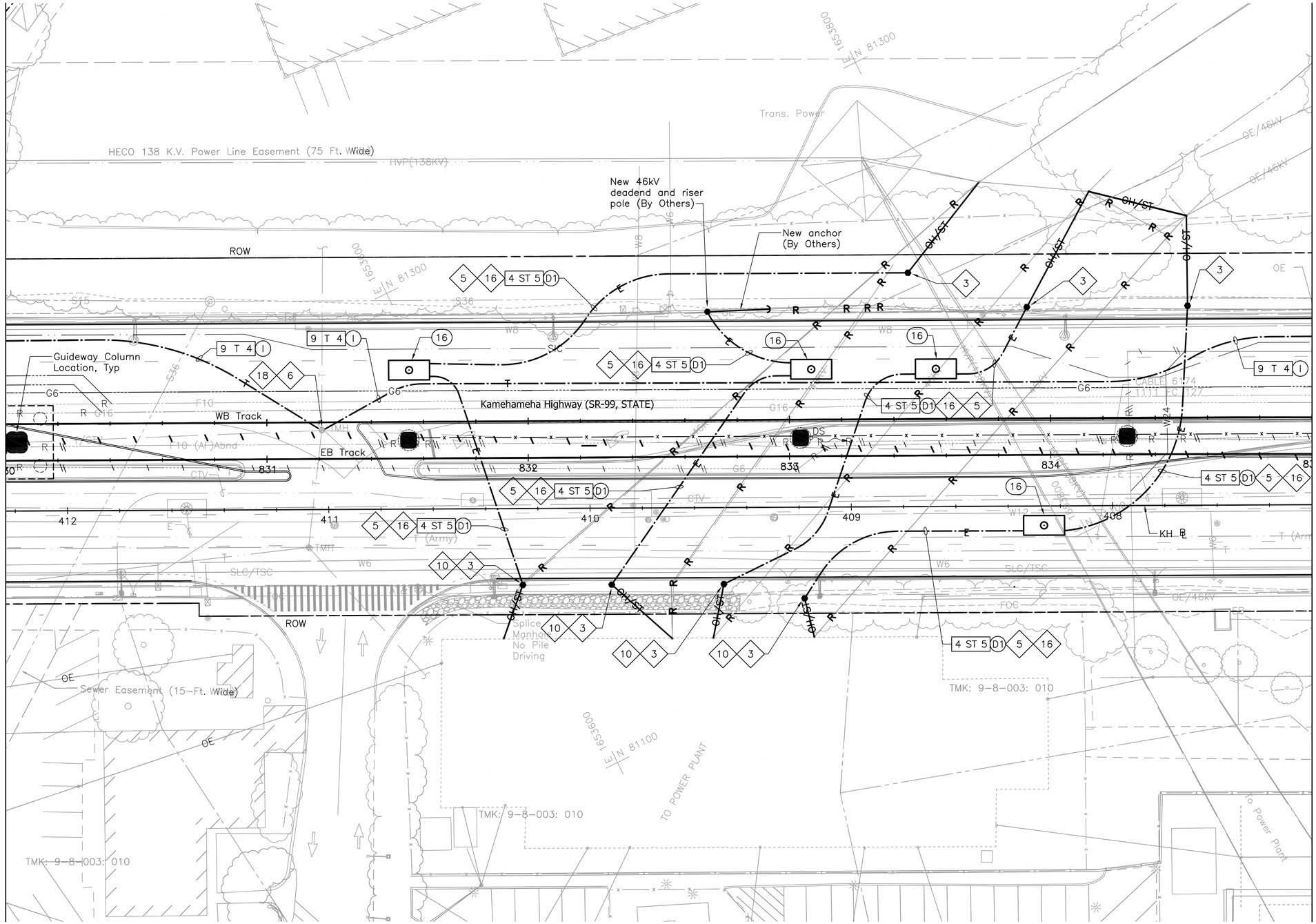
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
ELECTRICAL & COMMUNICATIONS

EB 825+00 TO EB 830+00

Contract No.: DB–320
CADD File: KHDB–D03–UP312
Drawing No: UP312
Rev. A
Scale: 1"=20'
Page No. 106 of 186

P:\01_PROJECTS\2007\207081,002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP312, 3/16/2010 10:04:41 AM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

3 Provide new self-sustaining metal pole (By others).

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

10 Hand-dig area around proposed column/pole location to locate and expose existing utility ducts. Protect ducts during column/pole installation and restore area upon completion of column/pole installation.

16 See Detail 2/UP403.

18 Enlarge existing manhole, handhole, or pullbox as indicated.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

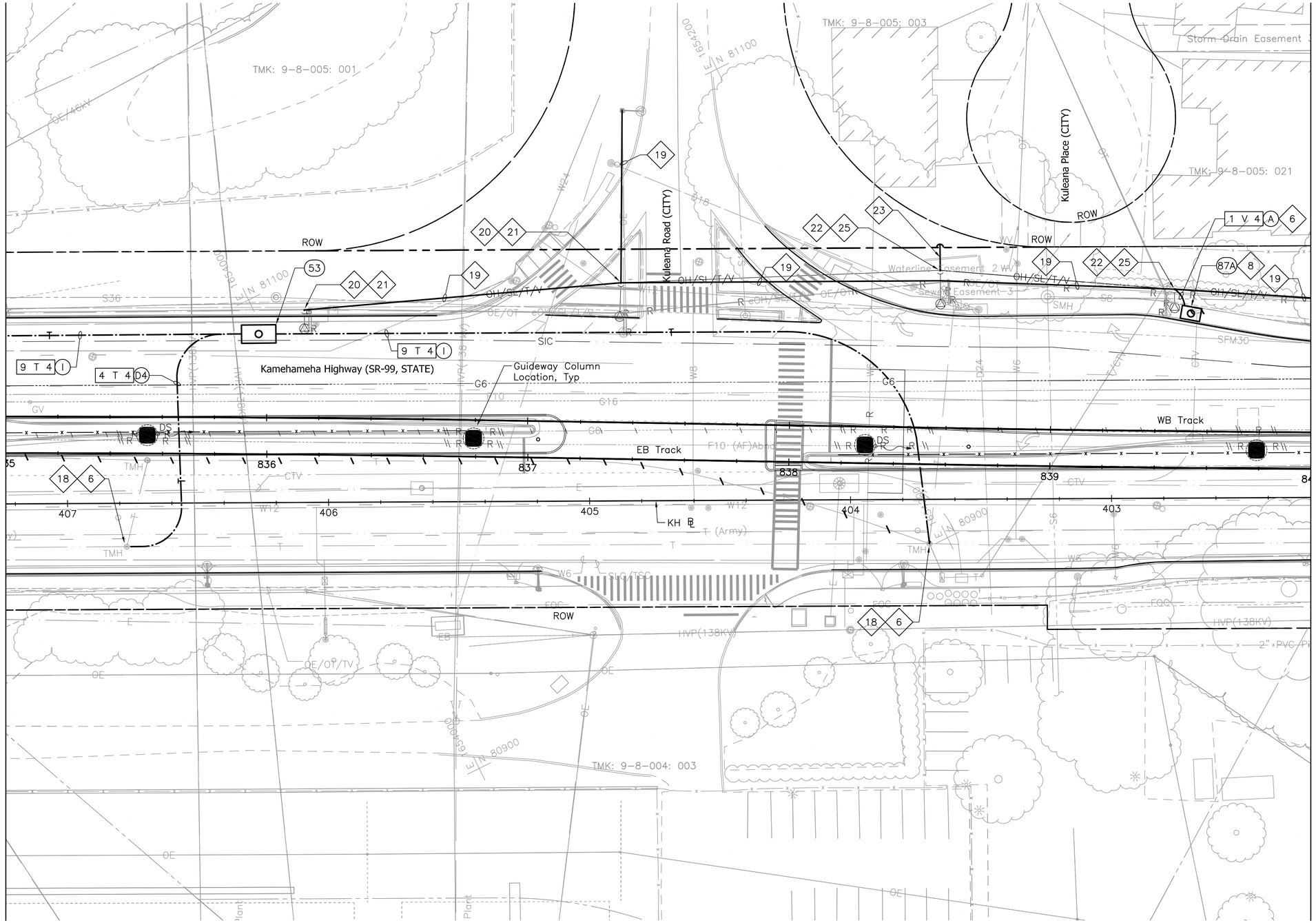
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
ELECTRICAL & COMMUNICATIONS

EB 830+00 TO EB 835+00

Contract No.: DB-320
CADD File: KHDB-D03-UP313
Drawing No: UP313 Rev. A
Scale: 1"=20'
Page No. 107 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP313, 3/12/2010 4:45:56 PM, deyn, 1:1



N

NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

8 Replace existing handhole with new manhole. Restore walls as necessary.

18 Enlarge existing manhole, handhole, or pullbox as indicated.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

22 Provide new wood joint pole. See Detail 1/UP407.

23 Provide new anchor. See Detail 3/UP407.

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

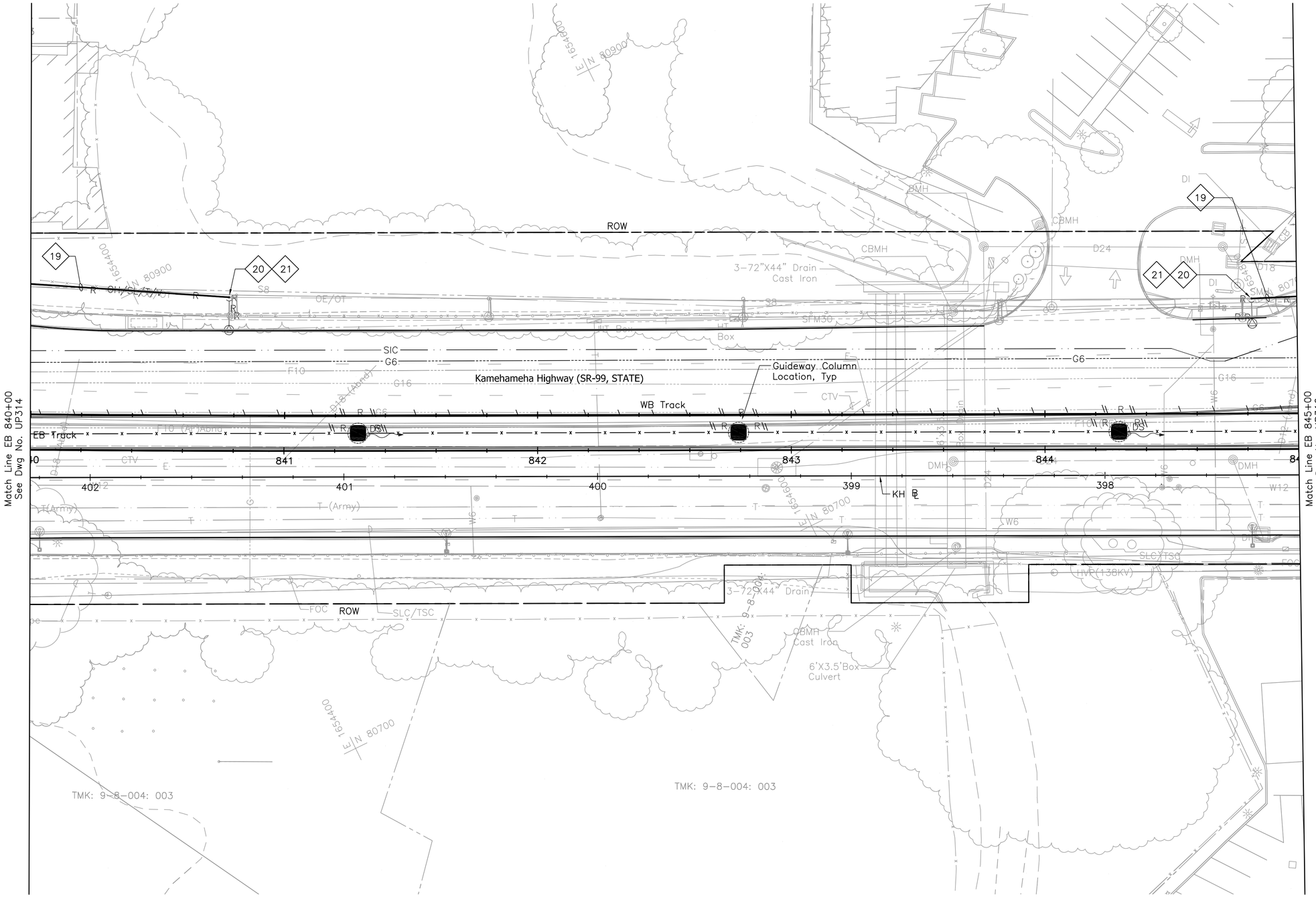
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 835+00 TO EB 840+00

Contract No.: DB-320
CADD File: KHDB-D03-UP314
Drawing No: UP314 Rev. A
Scale: 1"=20'
Page No. 108 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP314, 3/12/2010 4:46:34 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

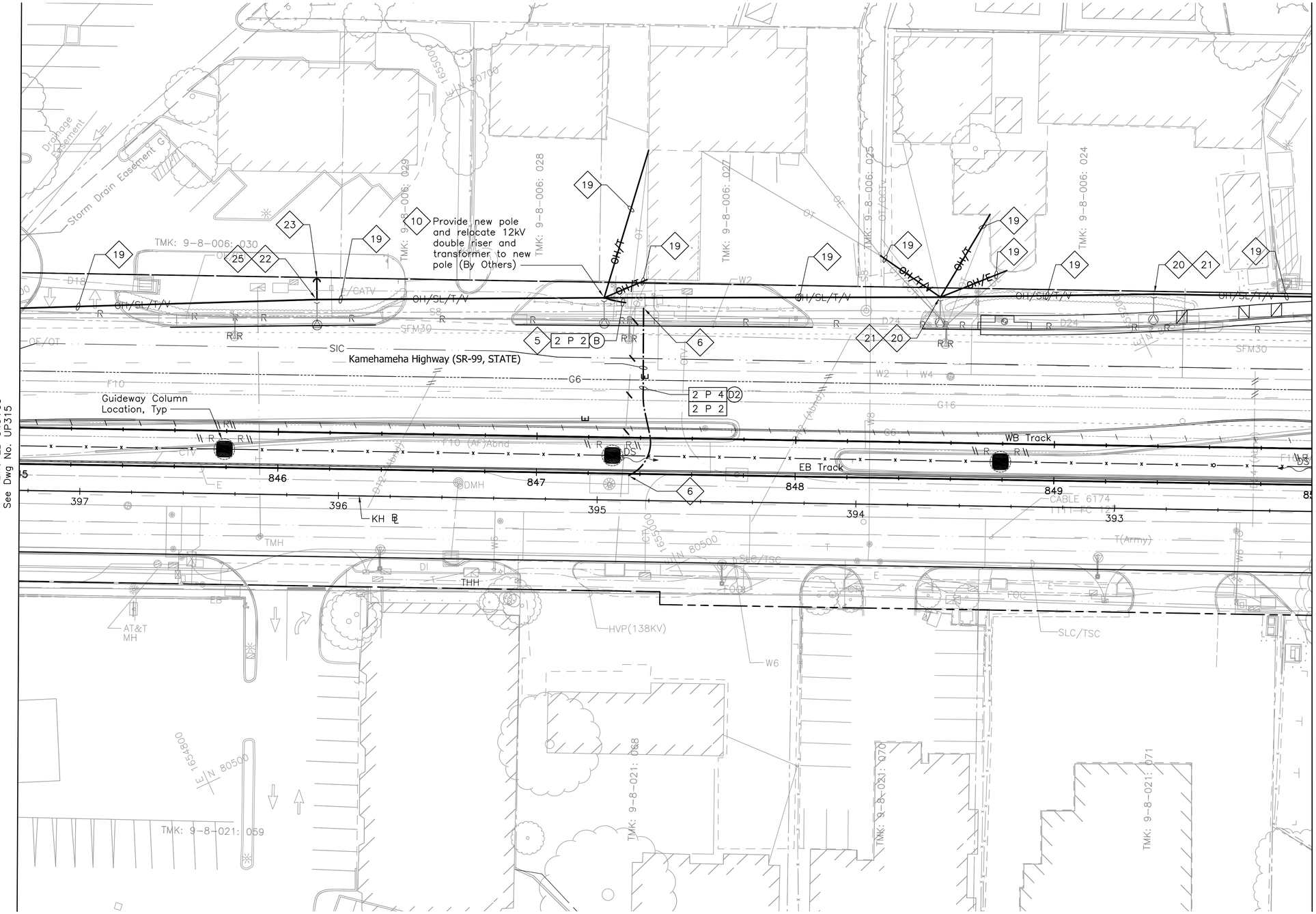
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 840+00 TO EB 845+00

Contract No.: DB-320
CADD File: KHDB-D03-UP315
Drawing No: UP315 Rev. A
Scale: 1"=20'
Page No. 109 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP315, 3/12/2010 4:47:10 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

10 Hand-dig area around proposed column/pole location to locate and expose existing utility ducts. Protect ducts during column/pole installation and restore area upon completion of column/pole installation.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

22 Provide new wood joint pole. See Detail 1/UP407.

23 Provide new anchor. See Detail 3/UP407.

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

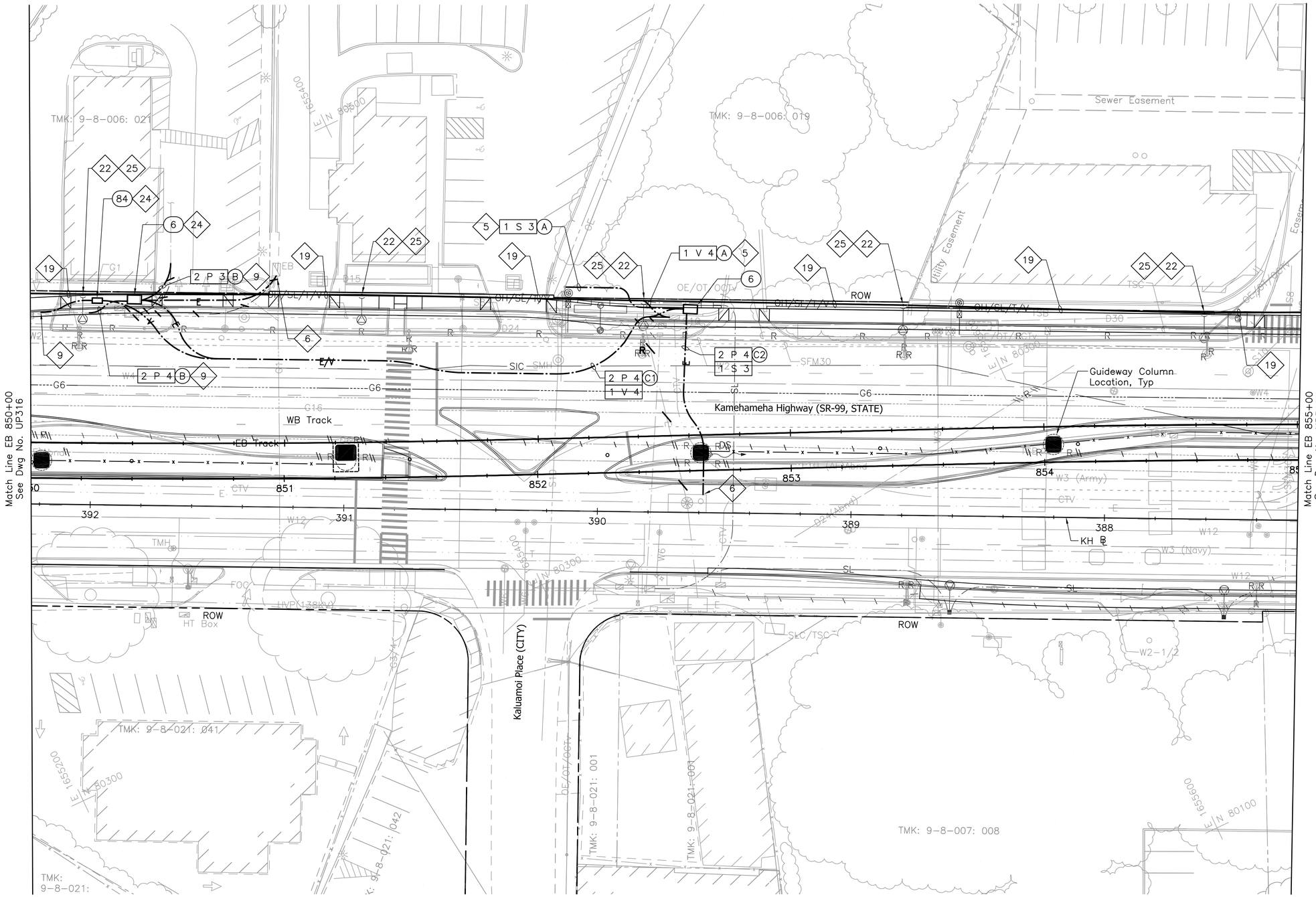
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
ELECTRICAL & COMMUNICATIONS

EB 845+00 TO EB 850+00

Contract No.: DB-320
CADD File: KHDB-D03-UP316
Drawing No: UP316 Rev. A
Scale: 1"=20'
Page No. 110 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP316, 3/12/2010 4:47:40 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

9 Intercept existing duct line with new duct line under applicable utility company supervision.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

22 Provide new wood joint pole. See Detail 1/UP407.

24 Re-route existing ducts and cables to new manhole or handhole, and demolish existing handhole.

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

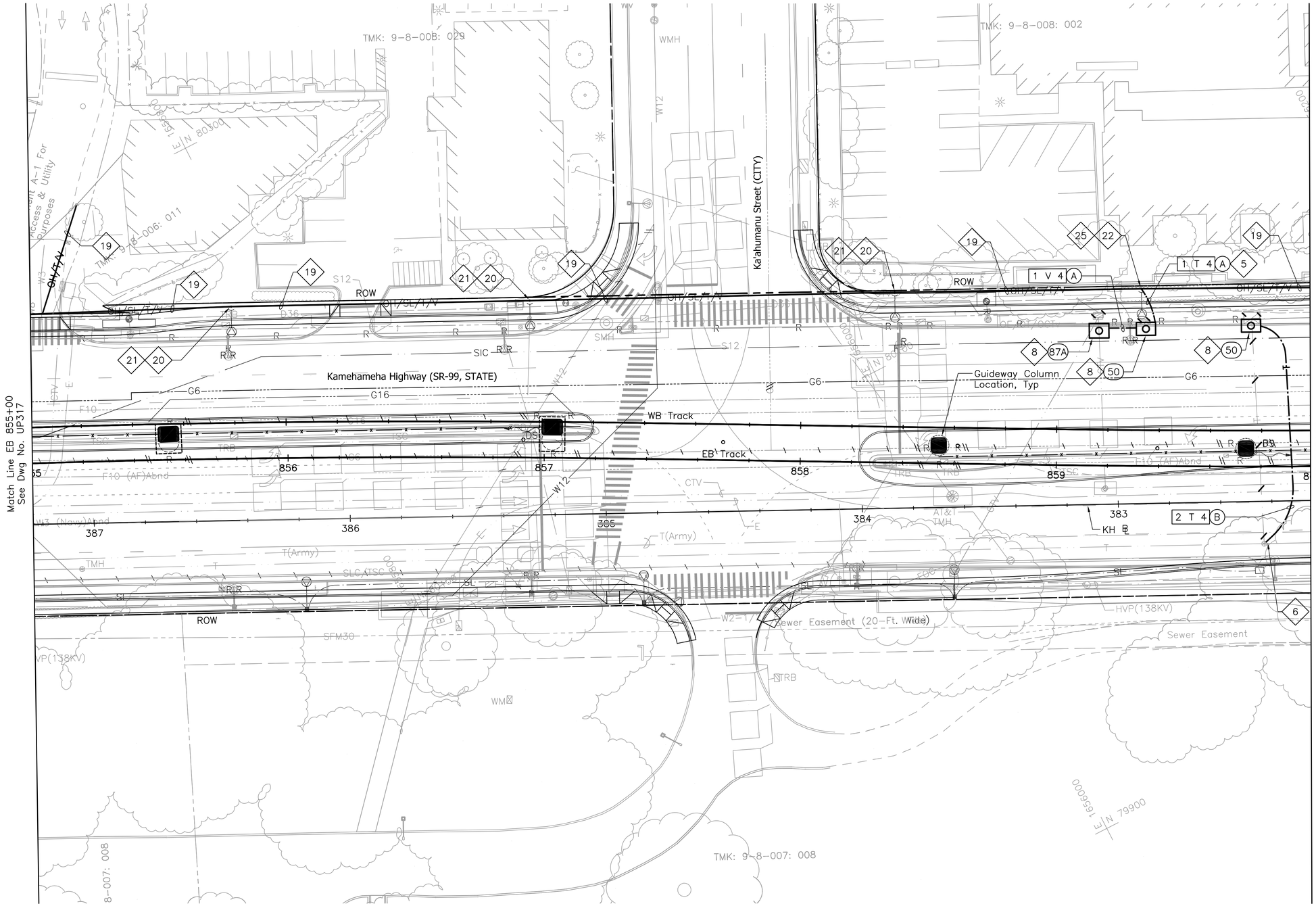
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 850+00 TO EB 855+00

Contract No.: DB-320
CADD File: KHDB-D03-UP317
Drawing No: UP317
Rev. A
Scale: 1"=20'
Page No. 111 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP317, 3/12/2010 5:47:17 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

8 Replace existing handhole with new manhole. Restore walls as necessary.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

22 Provide new wood joint pole. See Detail 1/UP407.

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

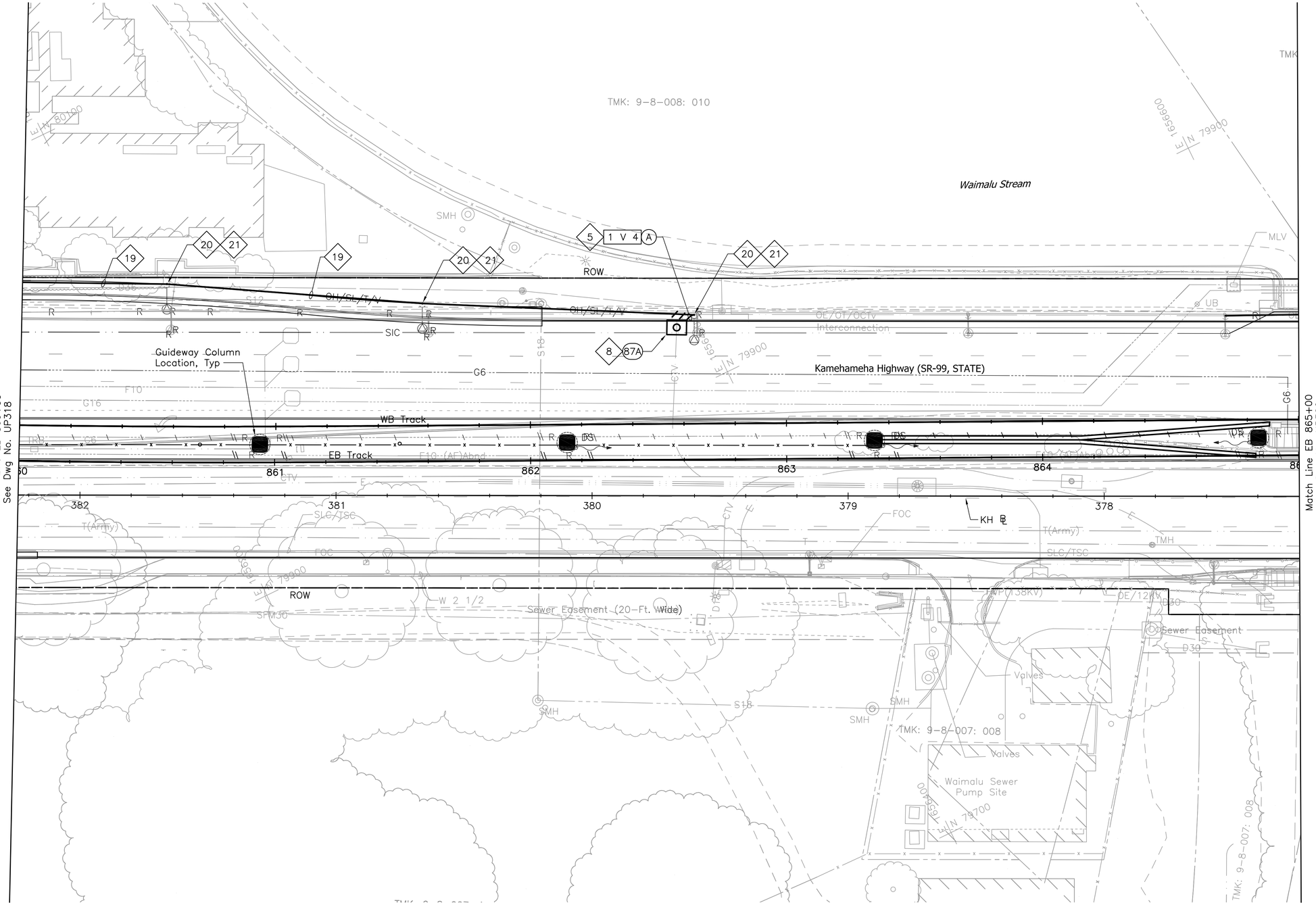
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 855+00 TO EB 860+00

Contract No.: DB-320
CADD File: KHDB-D03-UP318
Drawing No: UP318 Rev. A
Scale: 1"=20'
Page No. 112 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP318, 3/12/2010 4:48:20 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

8 Replace existing handhole with new manhole. Restore walls as necessary.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

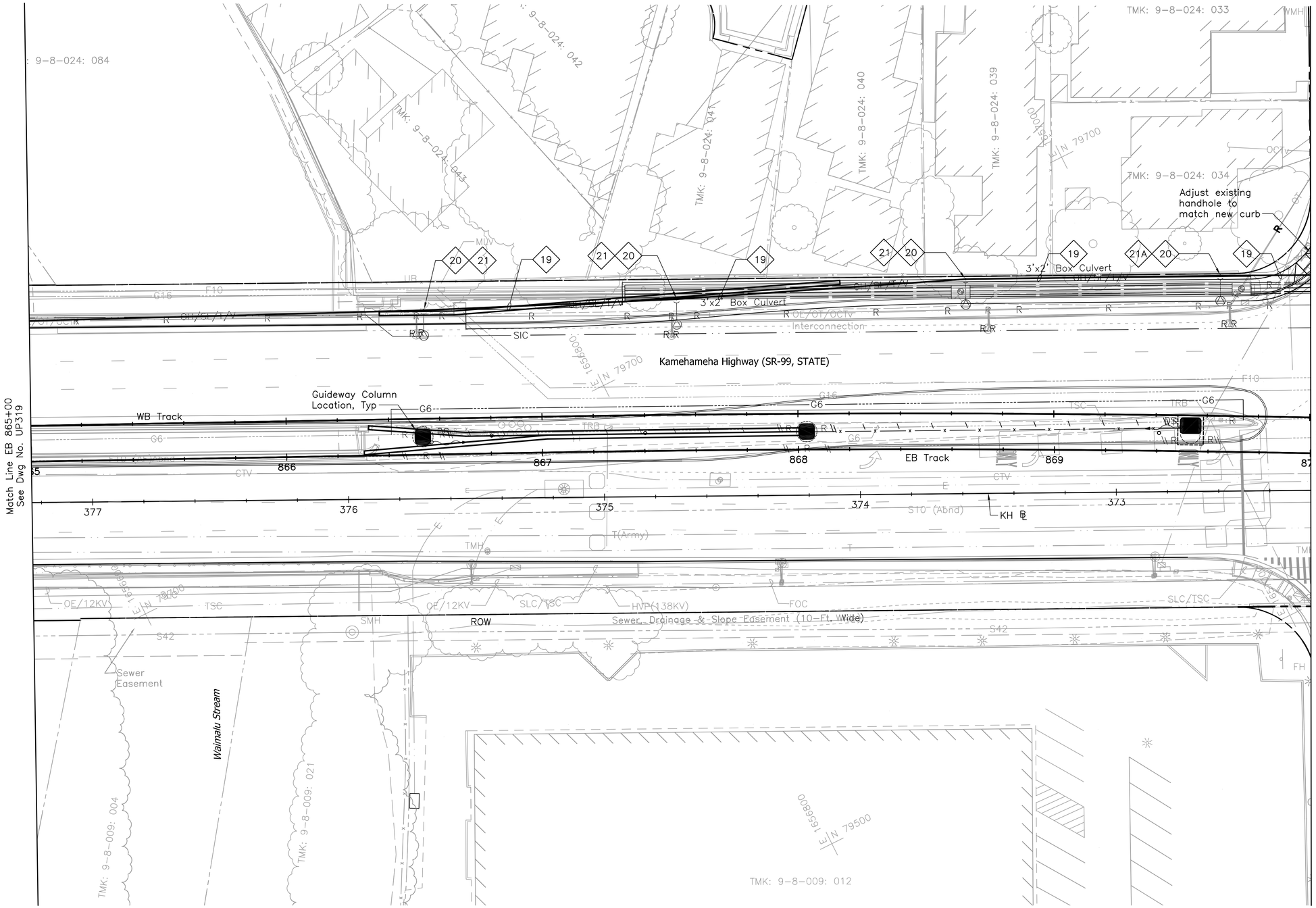
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 860+00 TO EB 865+00

Contract No.: DB-320
CADD File: KHDB-D03-UP319
Drawing No: UP319 Rev. A
Scale: 1"=20'
Page No. 113 of 186

Q:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP319, 3/12/2010 4:49:06 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

21A Provide new self-sustaining metallic joint pole. (By Others).

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

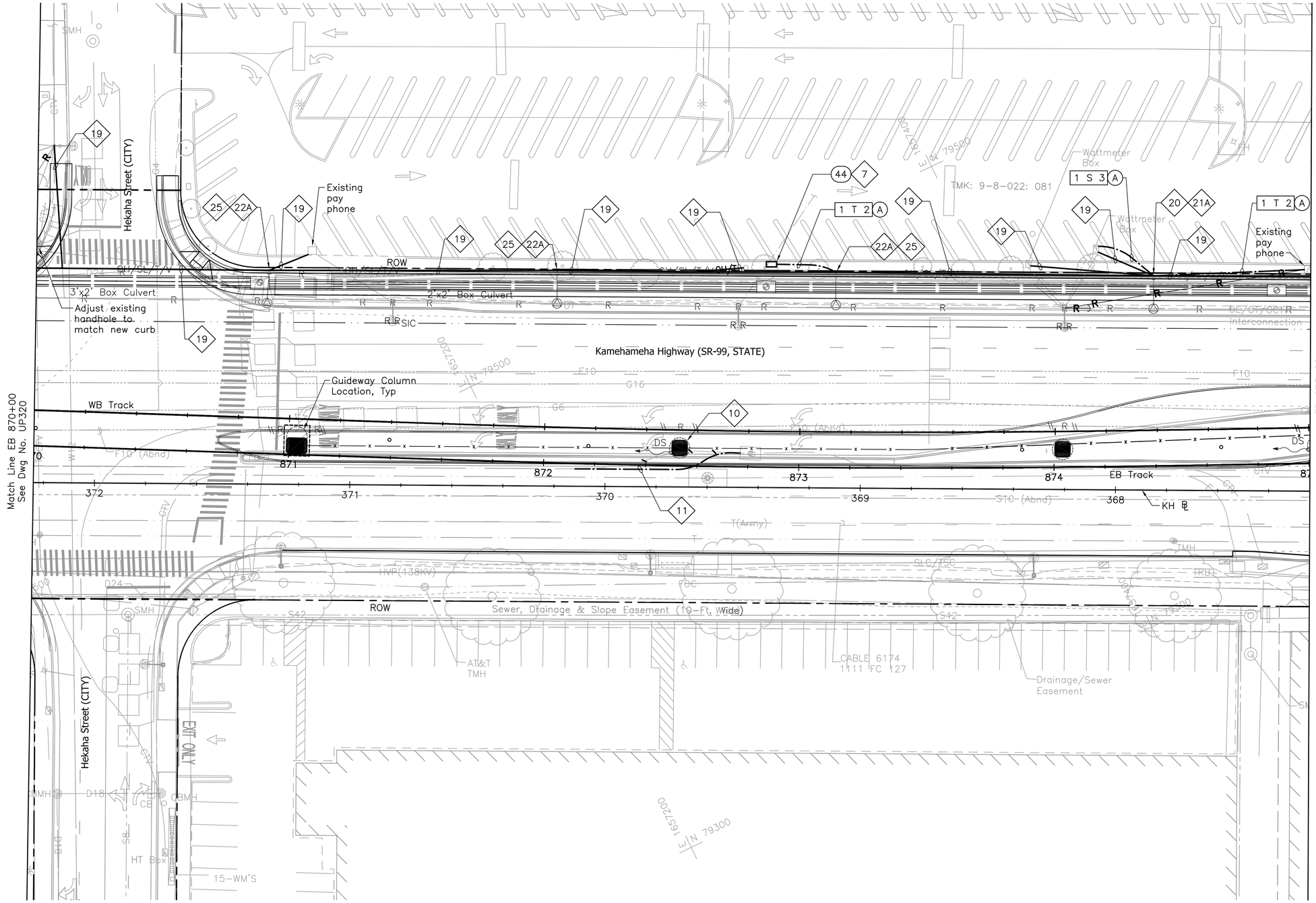
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 865+00 TO EB 870+00

Contract No.: DB-320
CADD File: KHDB-D03-UP320
Drawing No: UP320 Rev. A
Scale: 1"=20'
Page No. 114 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP320, 3/12/2010 4:50:01 PM, deyn, 1:1



N

NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

7 Intercept existing duct line with new manhole, handhole, or pullbox as indicated. Demolish concrete jacket and duct within manhole, handhole, or pullbox as indicated and expose cables. Preserve cables during demolition of duct.

10 Hand-dig area around proposed column/pole location to locate and expose existing utility ducts. Protect ducts during column/pole installation and restore area upon completion of column/pole installation.

11 Coordinate with utility owner to re-route conduits and cables around guideway column.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21A Provide new self-sustaining metallic joint pole. (By Others).

22A Provide new wood joint pole. (By Others).

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

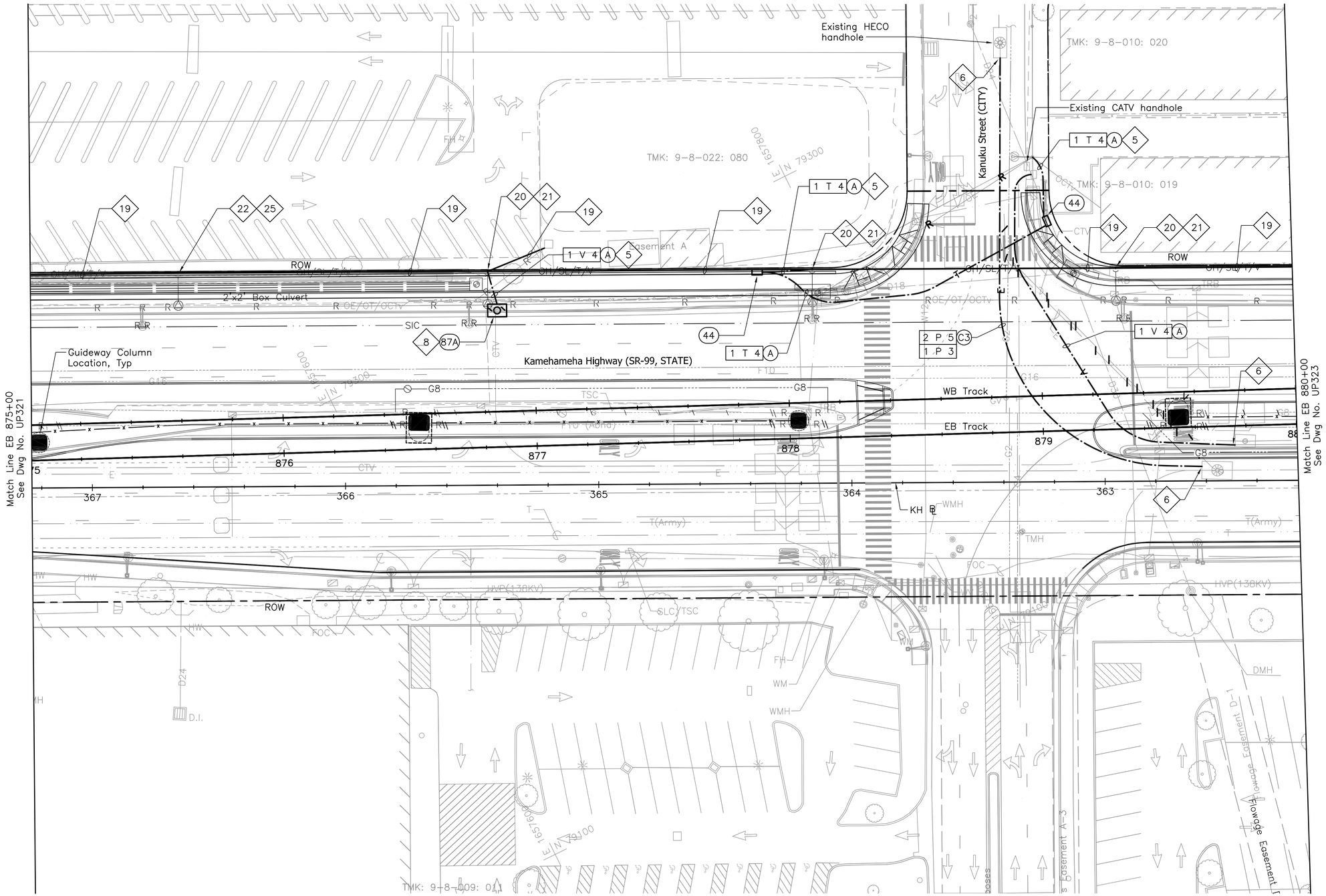
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 870+00 TO EB 875+00

Contract No.: DB-320
CADD File: KHDB-D03-UP321
Drawing No: UP321 Rev. A
Scale: 1"=20'
Page No. 115 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP321, 3/12/2010 4:50:33 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

8 Replace existing handhole with new manhole. Restore walls as necessary.

9 Intercept existing duct line with new duct line under applicable utility company supervision.

11 Coordinate with utility owner to re-route conduits and cables around guideway column.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

22 Provide new wood joint pole. See Detail 1/UP407.

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

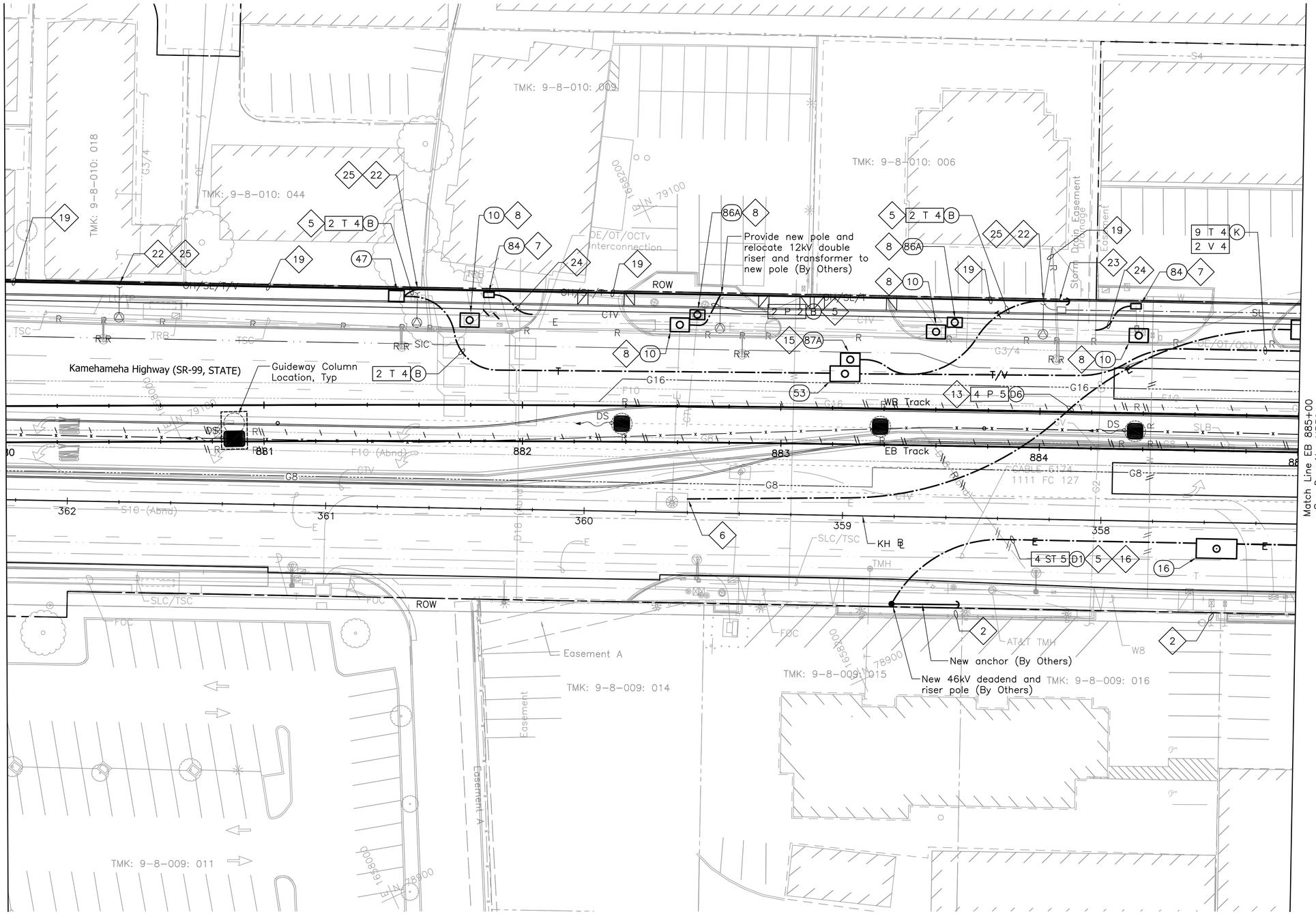
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 875+00 TO EB 880+00

Contract No.: DB-320
CADD File: KHDB-D03-UP322
Drawing No: UP322 Rev. A
Scale: 1"=20'
Page No. 116 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCIP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP322, 3/12/2010 4:51:14 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

2 Remove 46kV conductors only (By Others). 138kV conductors to remain.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

7 Intercept existing duct line with new manhole, handhole, or pullbox as indicated. Demolish concrete jacket and duct within manhole, handhole, or pullbox as indicated and expose cables. Preserve cables during demolition of duct.

8 Replace existing handhole with new manhole. Restore walls as necessary.

13 Preliminary new HECO service design only; coordinate with HECO for final plans.

15 Provide 1–4" sleeve between CATV handhole / manhole and HT handhole / manhole.

16 See Detail 2/UP403.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

22 Provide new wood joint pole. See Detail 1/UP407.

23 Provide new anchor. See Detail 3/UP407.

24 Re-route existing ducts and cables to new manhole or handhole, and demolish existing handhole.

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

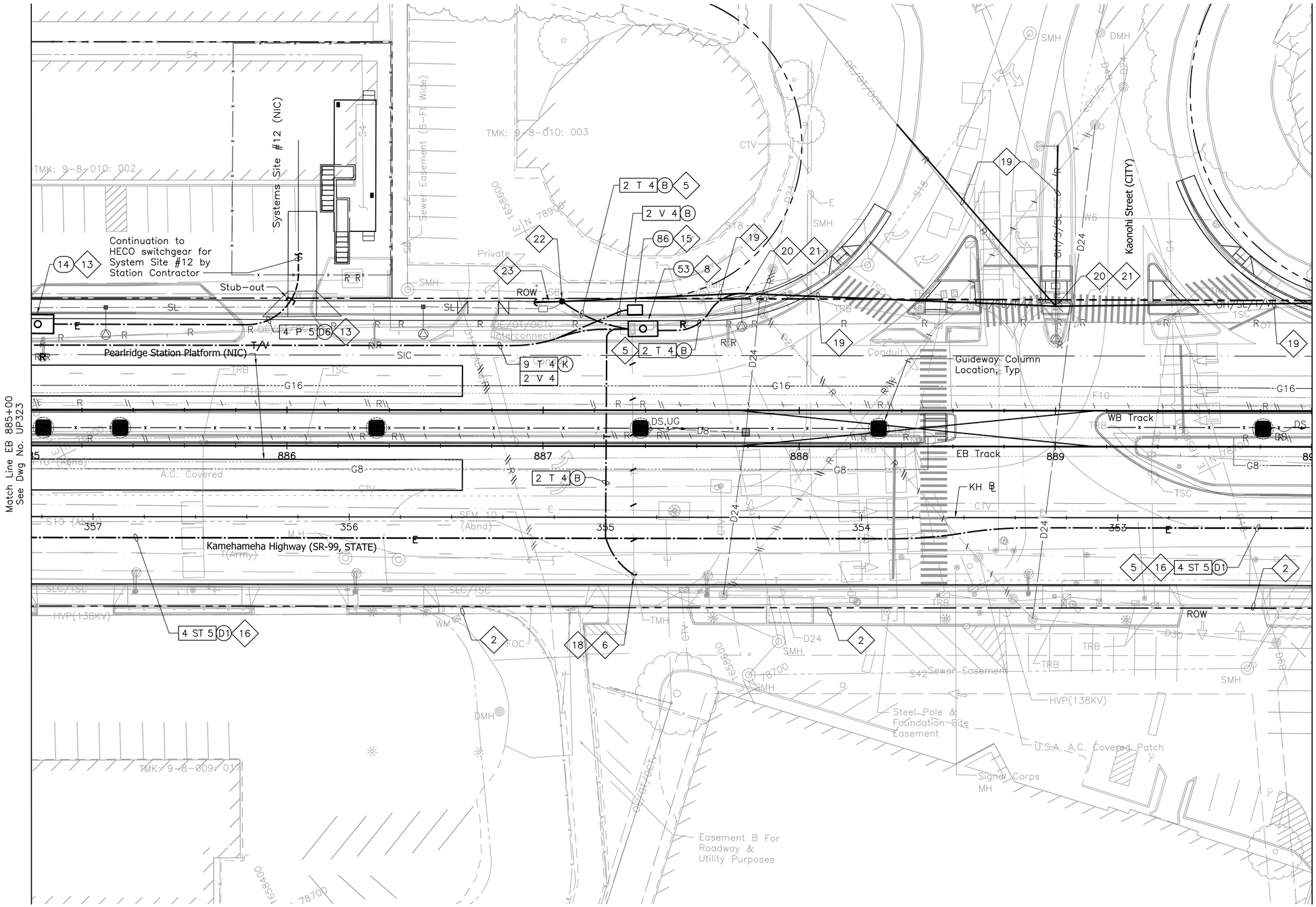
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 880+00 TO EB 885+00

Contract No.: DB–320
CADD File: KHDB–D03–UP323
Drawing No: UP323 Rev. A
Scale: 1"=20'
Page No. 117 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP323, 3/12/2010 4:51:45 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

2 Remove 46kV conductors only (By Others). 138kV conductors to remain.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

8 Replace existing handhole with new manhole. Restore walls as necessary.

13 Preliminary new HECO service design only; coordinate with HECO for final plans.

15 Provide 1–4" sleeve between CATV handhole / manhole and HT handhole / manhole.

16 See Detail 2/UP403.

18 Enlarge existing manhole, handhole, or pullbox as indicated.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self–sustaining metallic joint pole. See Detail 1/UP408.

22 Provide new wood joint pole. See Detail 1/UP407.

23 Provide new anchor. See Detail 3/UP407.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

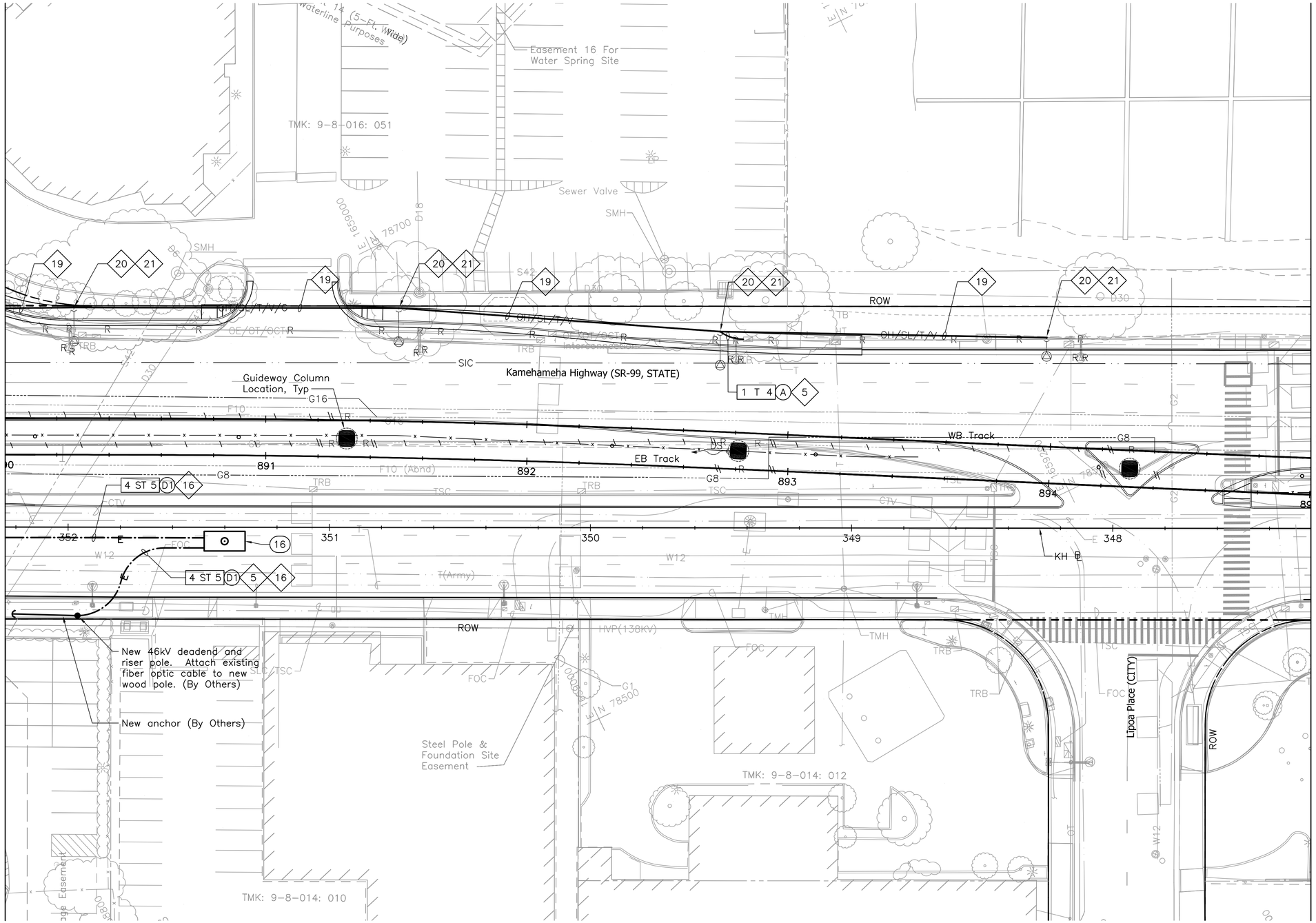
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 885+00 TO EB 890+00

Contract No.: DB–320
CADD File: KHDB–D03–UP324
Drawing No: UP324 Rev. A
Scale: 1"=20'
Page No. 118 of 186

P:\01_PROJECTS\2007\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP324, 3/16/2010 10:38:37 AM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

16 See Detail 2/UP403.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

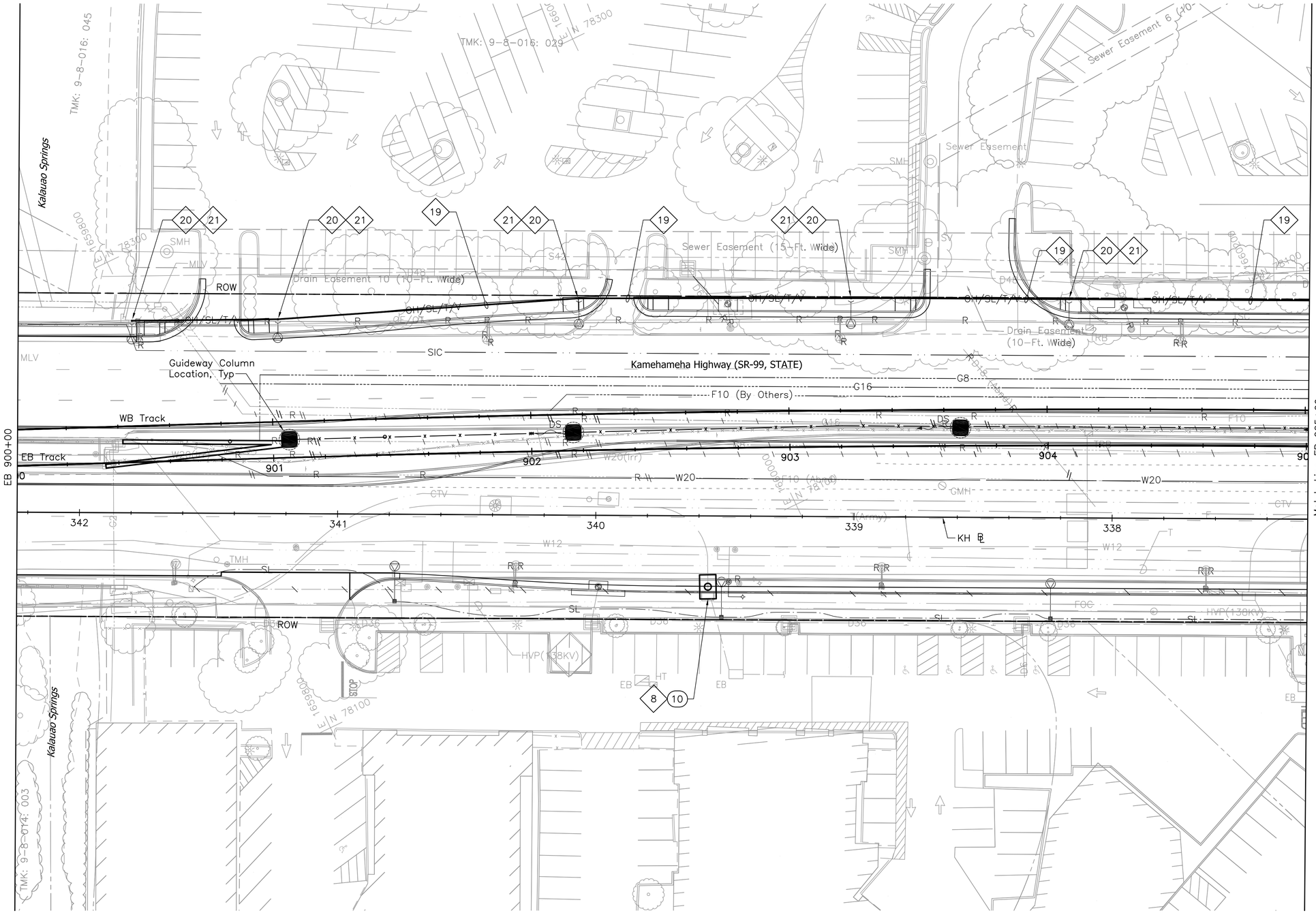
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 890+00 TO EB 895+00

Contract No.: DB-320
CADD File: KHDB-D03-UP325
Drawing No: UP325 Rev. A
Scale: 1"=20'
Page No. 119 of 186

Q:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP325, 3/12/2010 4:52:54 PM, deyn, 1:1



N

NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

8 Replace existing handhole with new manhole. Restore walls as necessary.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

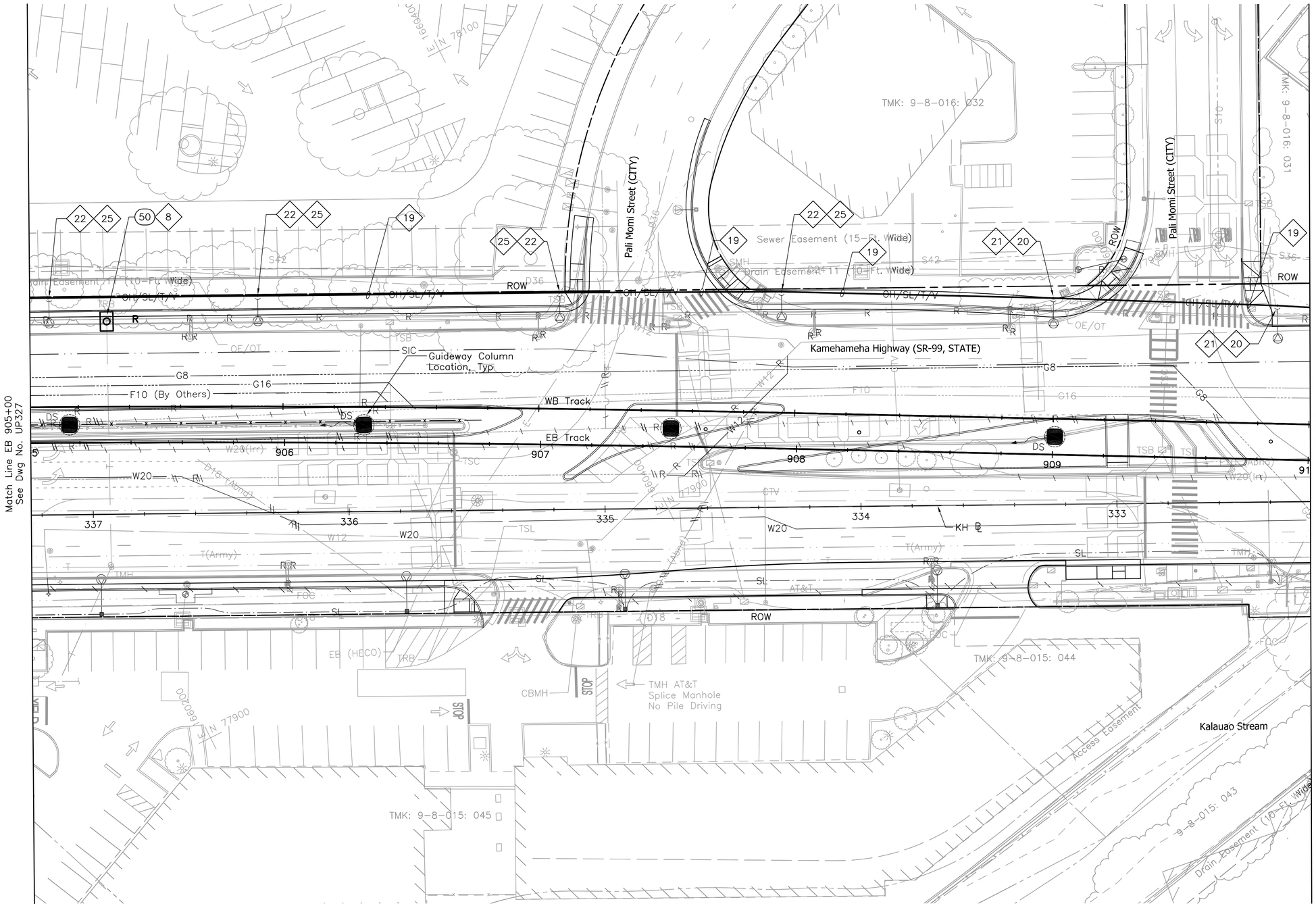
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 900+00 TO EB 905+00

Contract No.: DB-320
CADD File: KHDB-D03-UP327
Drawing No: UP327 Rev. A
Scale: 1"=20'
Page No. 120 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP327, 3/12/2010 4:53:26 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

8 Replace existing handhole with new manhole. Restore walls as necessary.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new wood joint pole. See Detail 1/UP407.

22 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

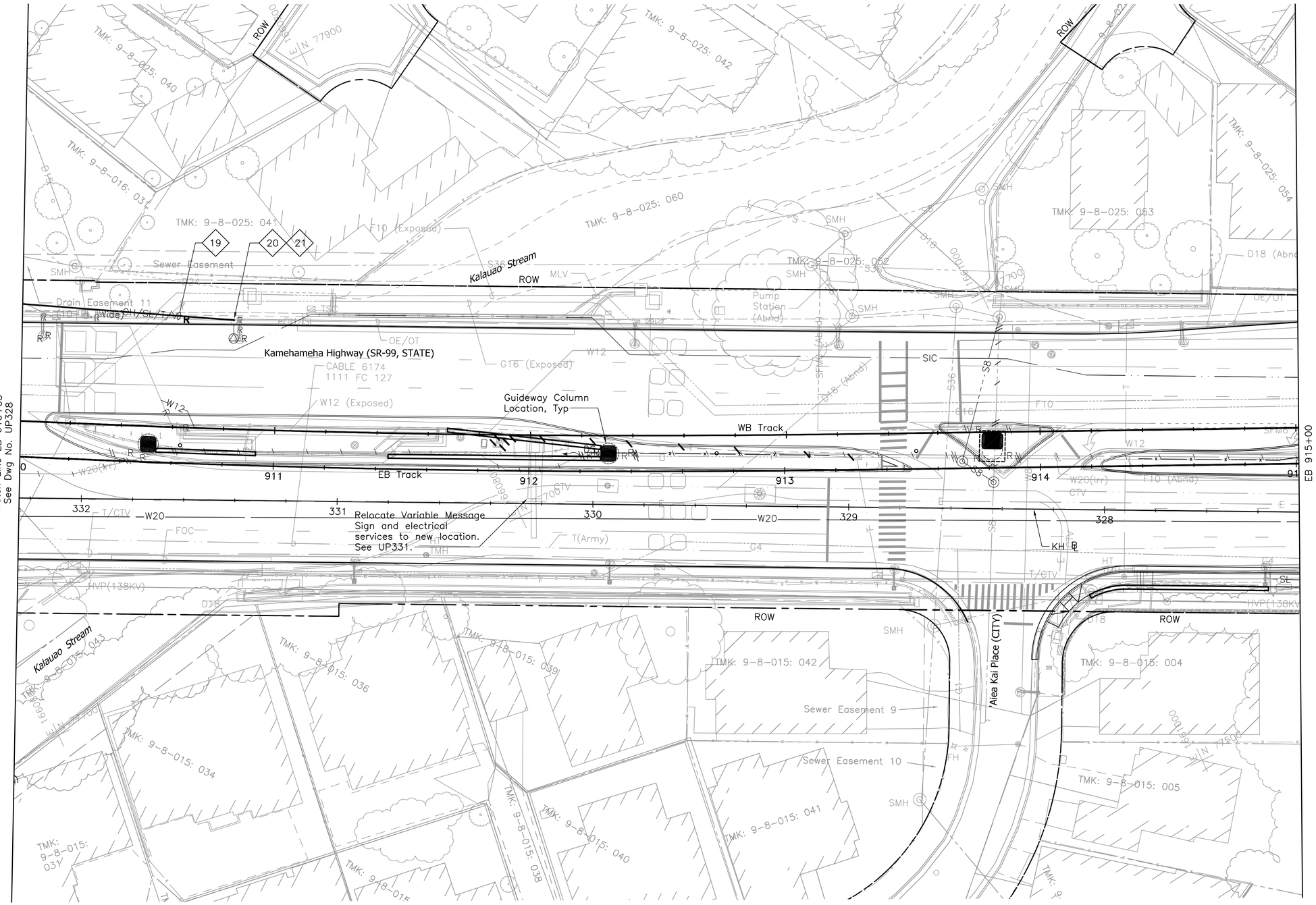
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 905+00 TO EB 910+00

Contract No.: DB-320
CADD File: KHDB-D03-UP328
Drawing No: UP328
Rev. A
Scale: 1"=20'
Page No. 121 of 186

C:\Documents and Settings\deyni\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP328, 3/12/2010 4:54:11 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

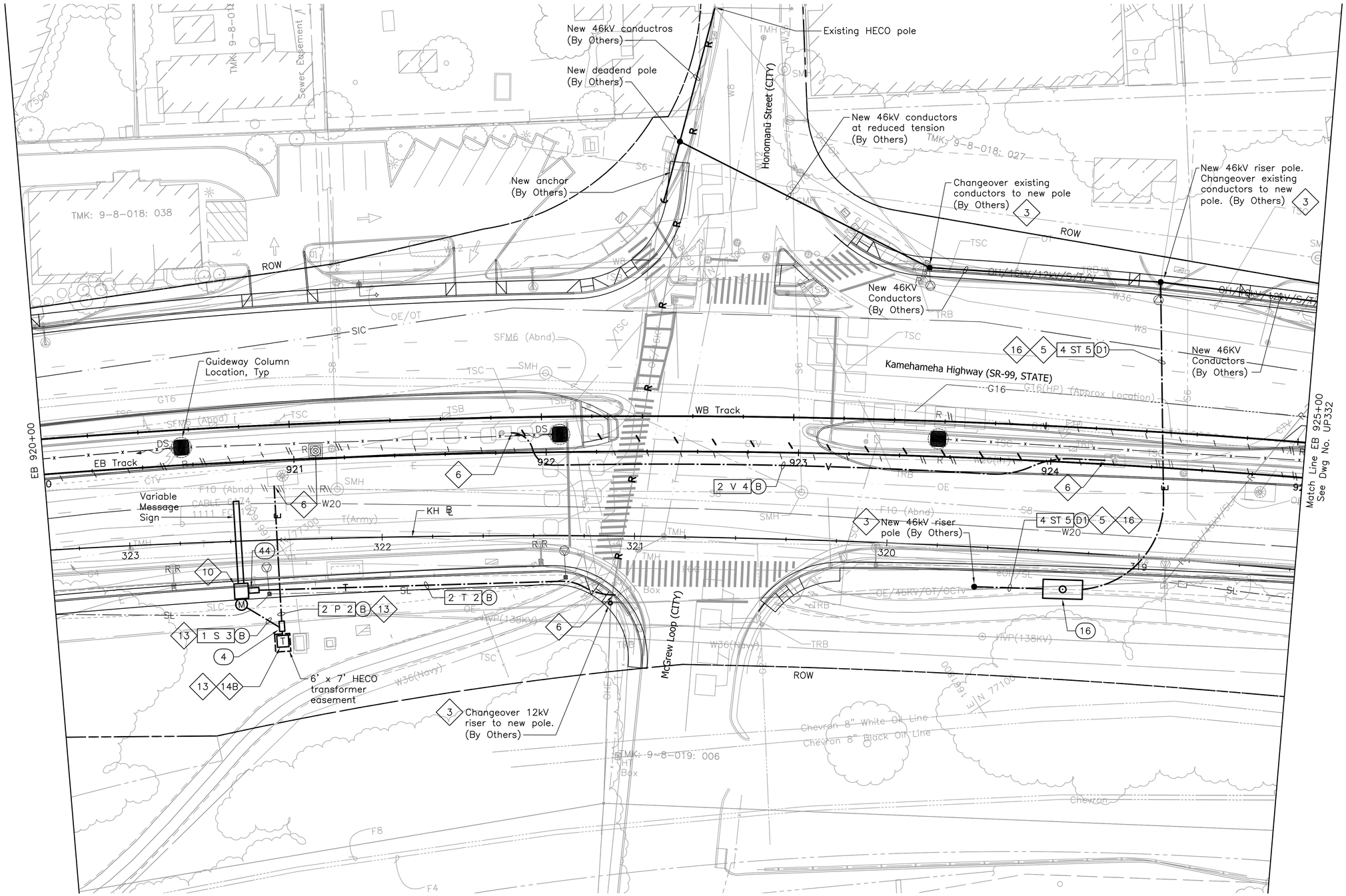
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
ELECTRICAL & COMMUNICATIONS

EB 910+00 TO EB 915+00

Contract No.: DB-320
CADD File: KHDB-D03-UP329
Drawing No: UP329 Rev. A
Scale: 1"=20'
Page No. 122 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP329, 3/12/2010 4:54:46 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

3 Provide new self-sustaining metal pole (By Others).

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

10 Hand-dig area around proposed column/pole location to locate and expose existing utility ducts. Protect ducts during column/pole installation and restore area upon completion of column/pole installation.

13 Preliminary new HECO service design only; coordinate with HECO for final plans.

14B Provide transformer concrete pad (transformer by HECO). See Detail 2/UP406.

16 See Detail 2/UP403.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

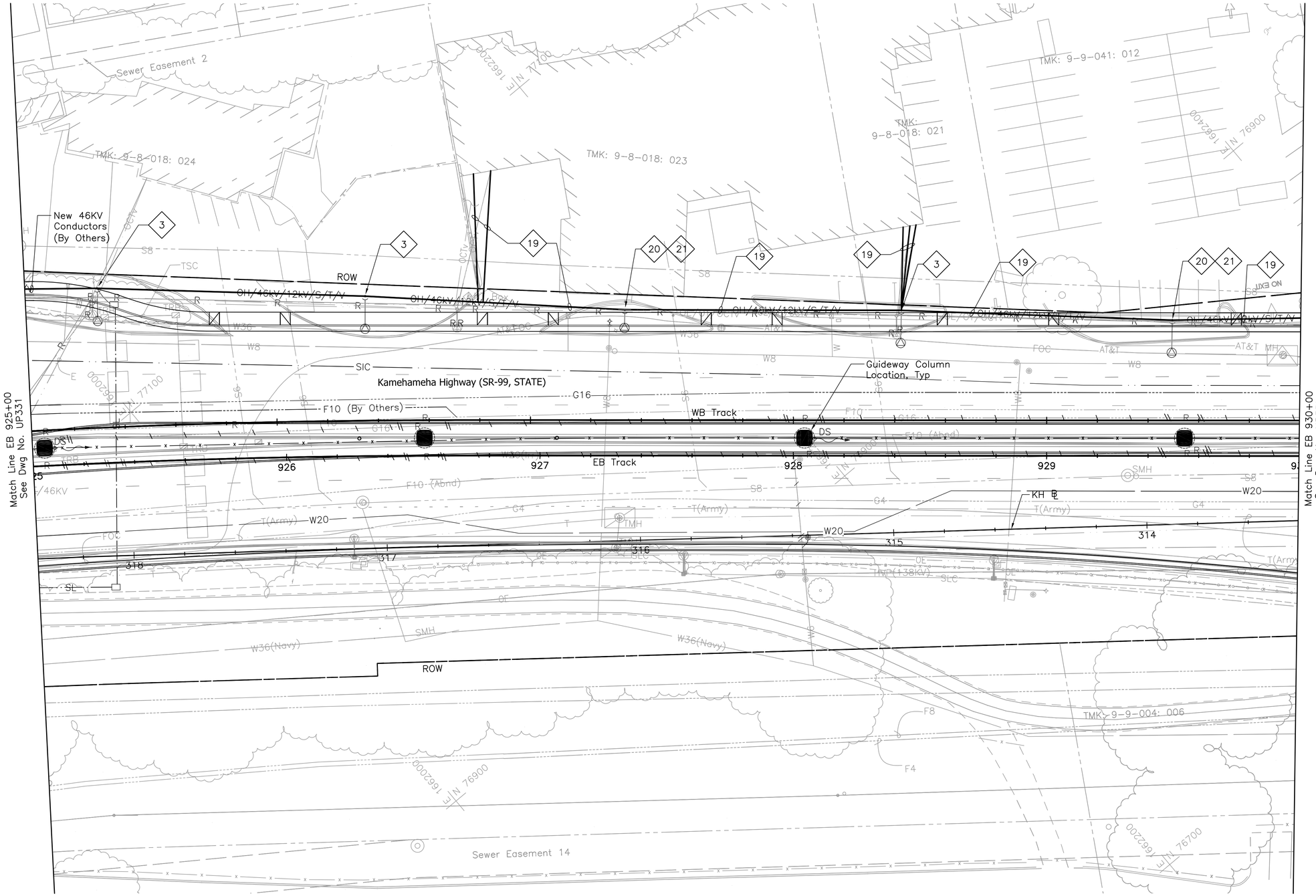
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 920+00 TO EB 925+00

Contract No.: DB-320
CADD File: KHDB-D03-UP331
Drawing No: UP331
Rev. A
Scale: 1"=20'
Page No. 123 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP331, 3/12/2010 4:55:29 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

3 Provide new self-sustaining metal pole (By Others).

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

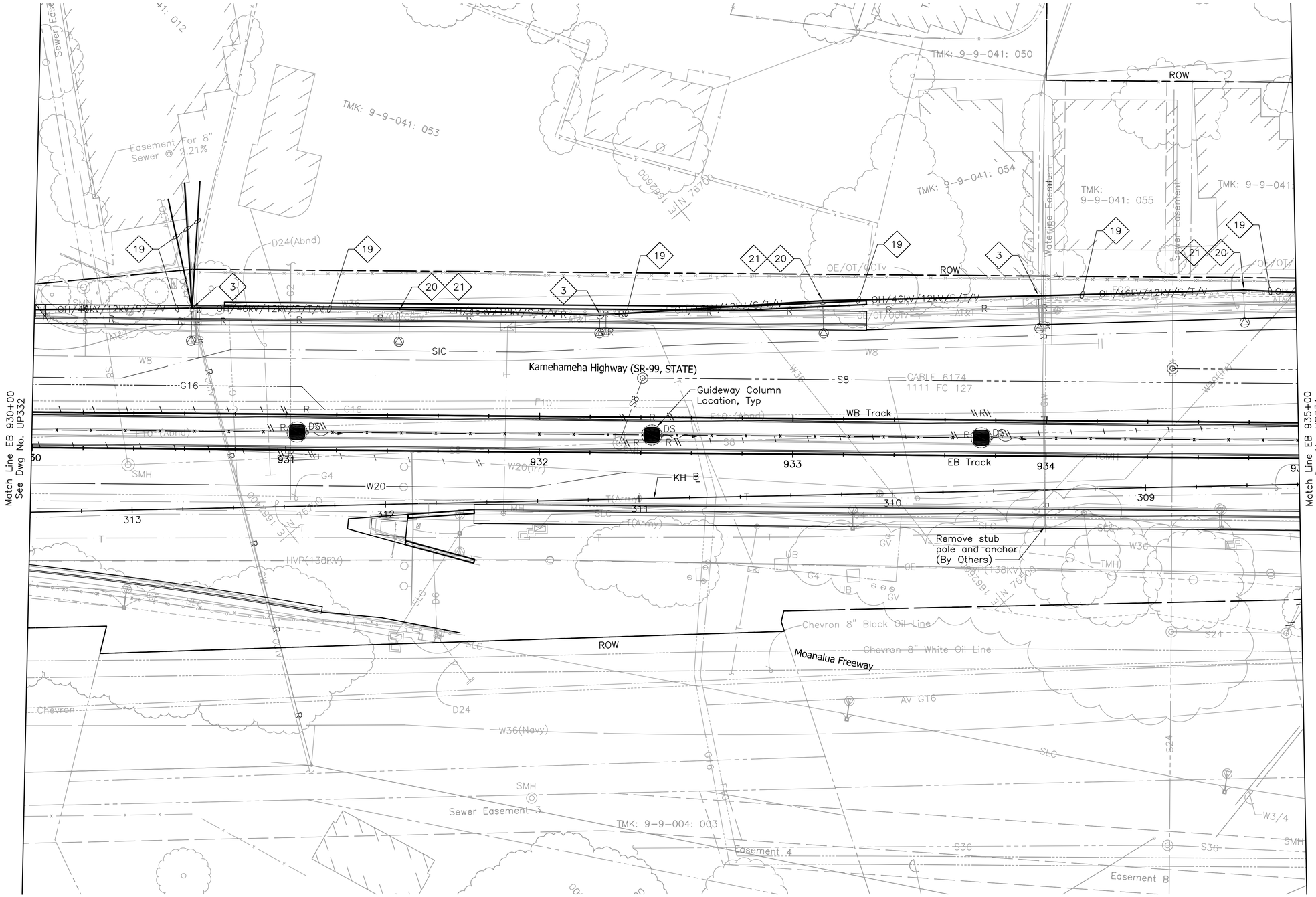
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 925+00 TO EB 930+00

Contract No.: DB-320
CADD File: KHDB-D03-UP332
Drawing No: UP332 Rev. A
Scale: 1"=20'
Page No. 124 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP332, 3/12/2010 4:56:06 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

3 Provide new self-sustaining metal pole (By Others).

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
ELECTRICAL & COMMUNICATIONS

EB 930+00 TO EB 935+00

Contract No.: DB-320
CADD File: KHDB-D03-UP333
Drawing No: UP333 Rev. A
Scale: 1"=20'
Page No. 125 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP333, 3/12/2010 4:56:45 PM, deyn, 1:1

NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

3 Provide new self-sustaining metal pole (By Others).

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

18 Enlarge existing manhole, handhole, or pullbox as indicated.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 - Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

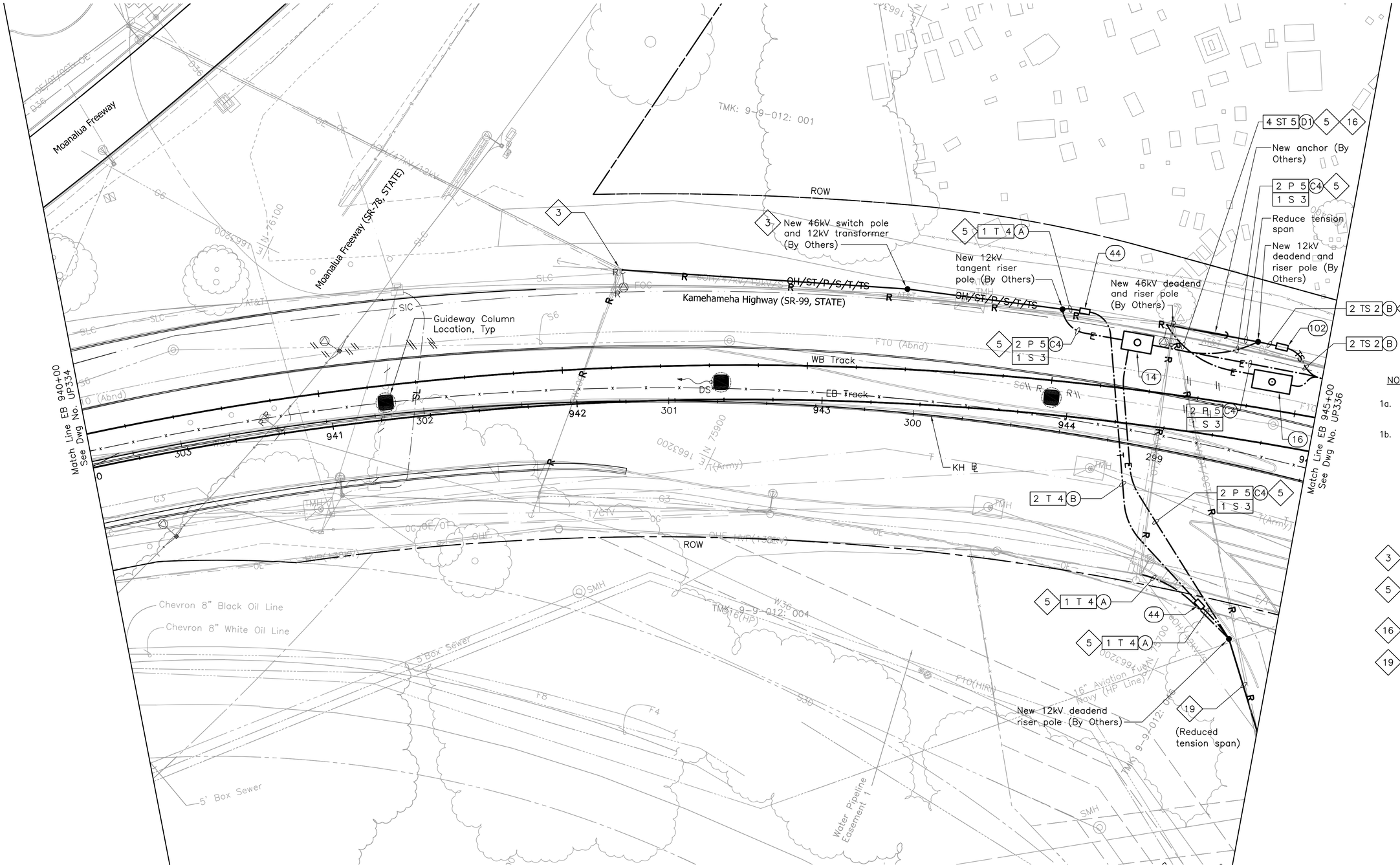
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 935+00 TO EB 940+00

Contract No.: DB-320
CADD File: KHDB-D03-UP334
Drawing No: UP334
Rev. A
Scale: 1"=20'
Page No. 126 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP334, 3/12/2010 4:57:24 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

3 Provide new self-sustaining metal pole (By Others).

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

16 See Detail 2/UP403.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

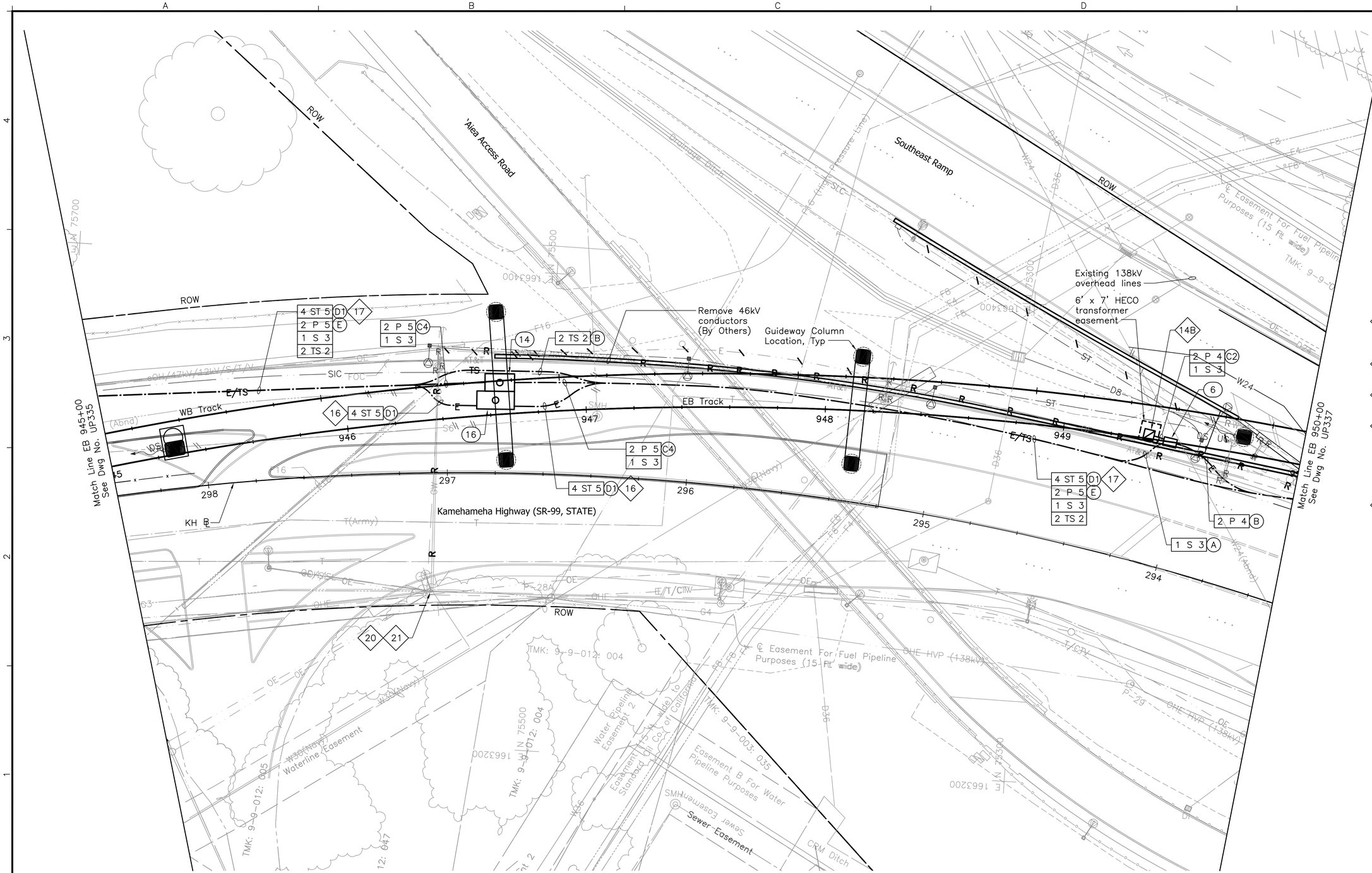
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION ELECTRICAL & COMMUNICATIONS

EB 940+00 TO EB 945+00

Contract No.: DB-320
CADD File: KHDB-D03-UP335
Drawing No: UP335 Rev. A
Scale: 1"=20'
Page No. 127 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP335, 3/12/2010 4:58:40 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

14B Provide transformer concrete pad (transformer by HECO). See Detail 2/UP406.

16 See Detail 2/UP403.

17 See Detail 3/UP403.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

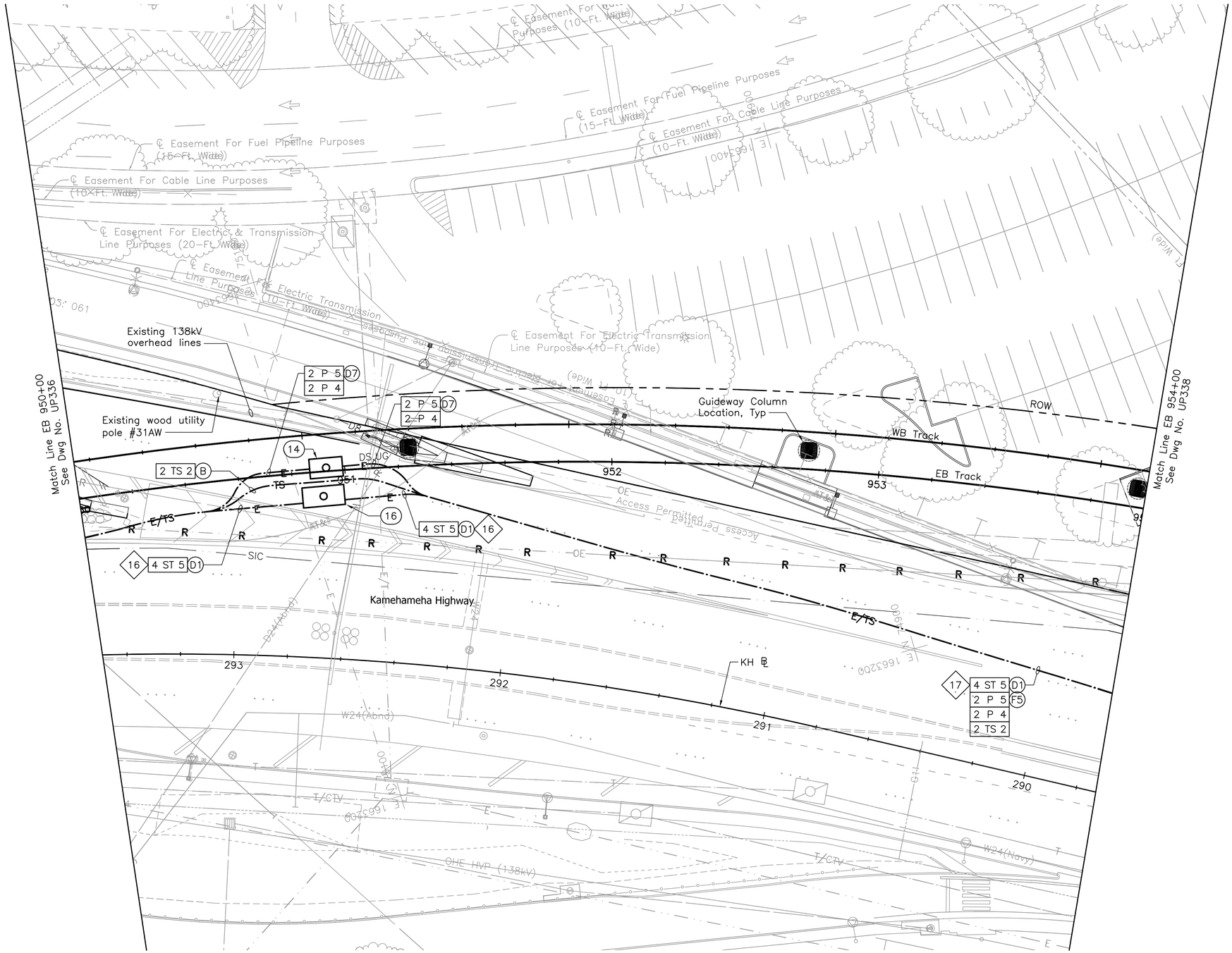
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN ELECTRICAL & COMMUNICATIONS

EB 945+00 TO EB 950+00

Contract No.: DB-320
CADD File: KHDB-D03-UP336
Drawing No: UP336
Rev. A
Scale: 1"=20'
Page No. 128 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP336, 3/12/2010 4:59:16 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

7 Intercept existing duct line with new manhole, handhole, or pullbox as indicated. Demolish concrete jacket and duct within manhole, handhole, or pullbox as indicated and expose cables. Preserve cables during demolition of duct.

16 See Detail 2/UP403.

17 See Detail 3/UP403.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

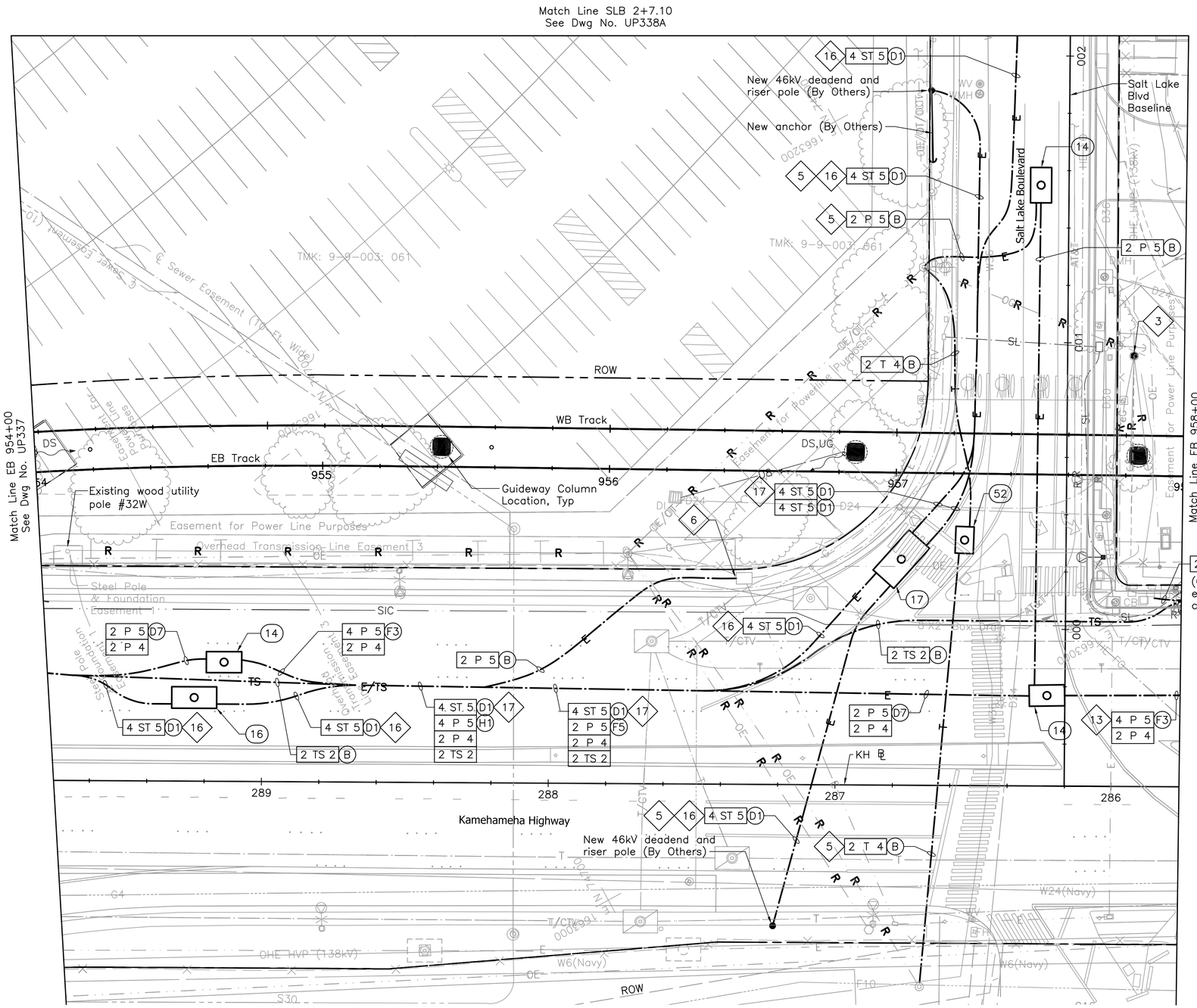
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION ELECTRICAL & COMMUNICATIONS

EB 950+00 TO EB 954+00

Contract No.: DB–320
CADD File: KHDB–D03–UP337
Drawing No: UP337 Rev. A
Scale: 1"=20'
Page No. 129 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP337, 3/12/2010 5:06:10 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

3 Provide new self-sustaining metal pole (By Others).

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

13 Preliminary new HECO service design only; coordinate with HECO for final plans.

16 See Detail 2/UP403.

17 See Detail 3/UP403.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION
ELECTRICAL & COMMUNICATIONS

EB 954+00 TO EB 958+00

Contract No.: DB-320
CADD File: KHDB-D03-UP338
Drawing No: UP338 Rev. A
Scale: 1"=20'
Page No. 130 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP338, 3/12/2010 5:00:20 PM, deyn, 1:1

Match Line SLB 2+7.10
See Dwg No. UP338

NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

16 See Detail 2/UP403.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813
Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

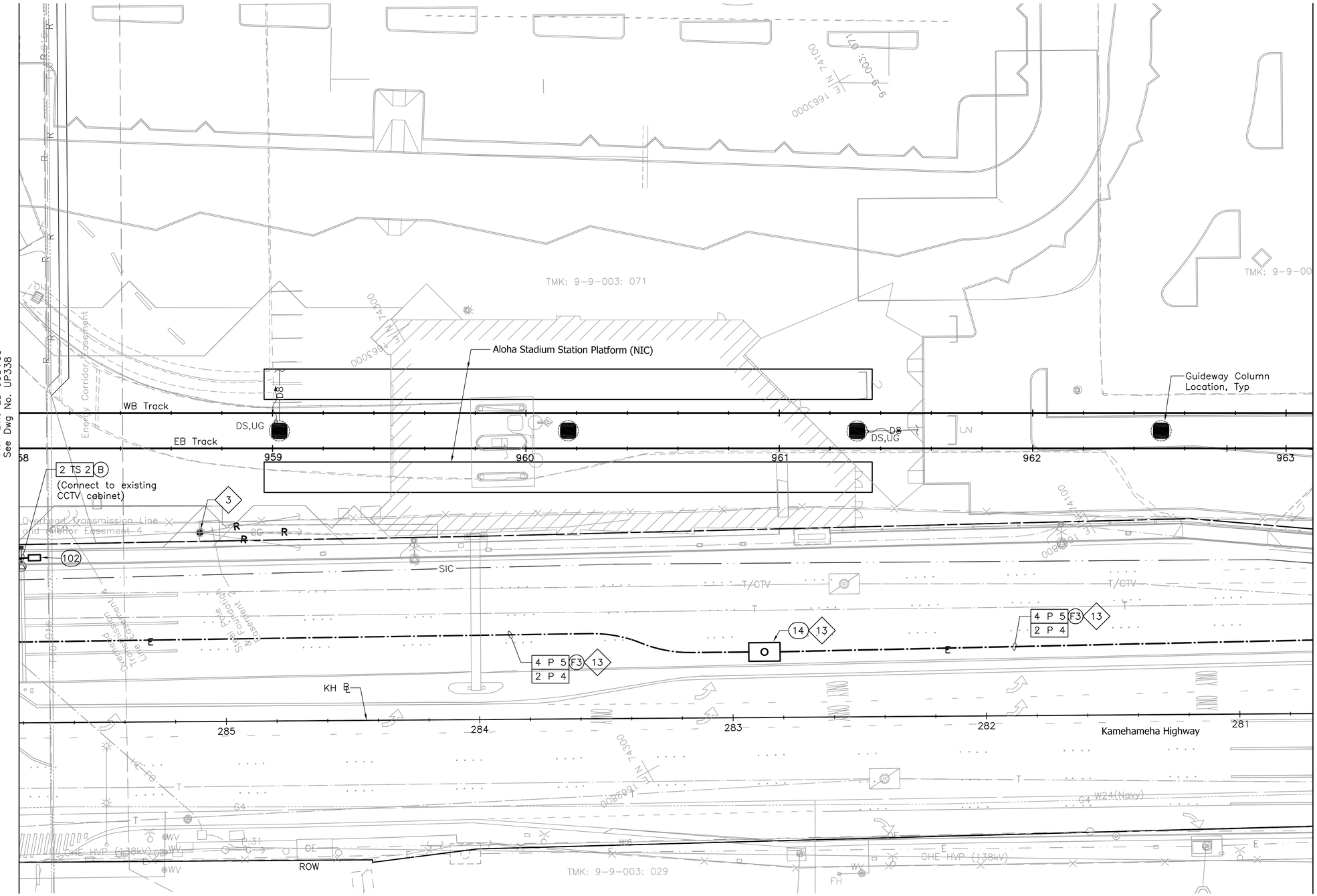
For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION
ELECTRICAL & COMMUNICATIONS

SLB 2+7.10 TO END

Contract No.: DB-320
CADD File: KHDB-D03-UP338A
Drawing No: UP338A
Rev. A
Scale: 1"=20'
Page No. 131 of 186



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

3 Provide new self-sustaining metal pole (By Others).

13 Preliminary new HECO service design only; coordinate with HECO for final plans.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

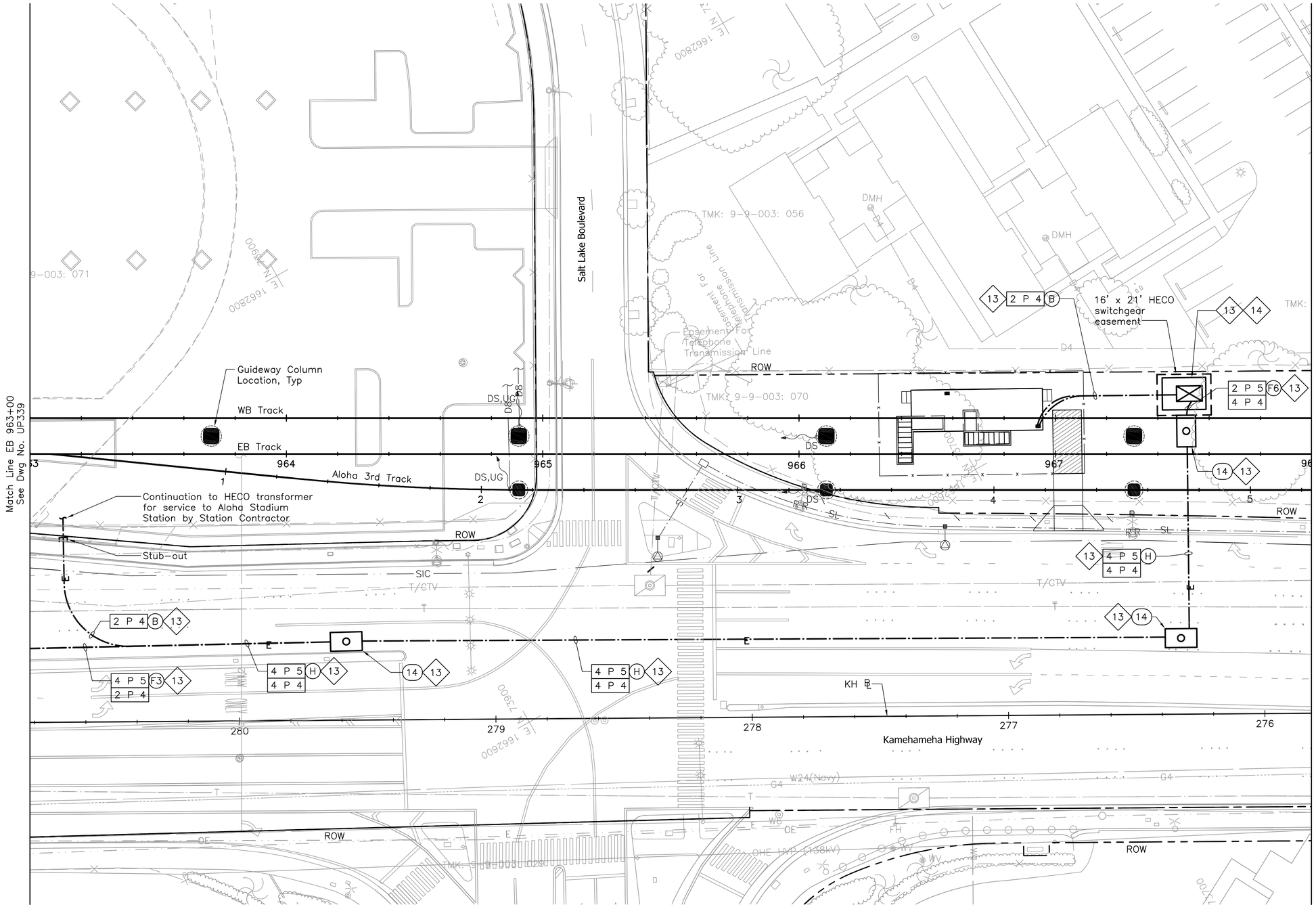
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION
ELECTRICAL & COMMUNICATIONS

EB 958+00 TO EB 963+00

Contract No.: DB-320
CADD File: KHDB-D03-UP339
Drawing No: UP339 Rev. A
Scale: 1"=20'
Page No. 132 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP339, 3/12/2010 5:01:15 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

13 Preliminary new HECO service design only; coordinate with HECO for final plans.

14 Provide switchgear concrete pad (switchgear by HECO). See Detail 1/UP405.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: F Hirakami
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

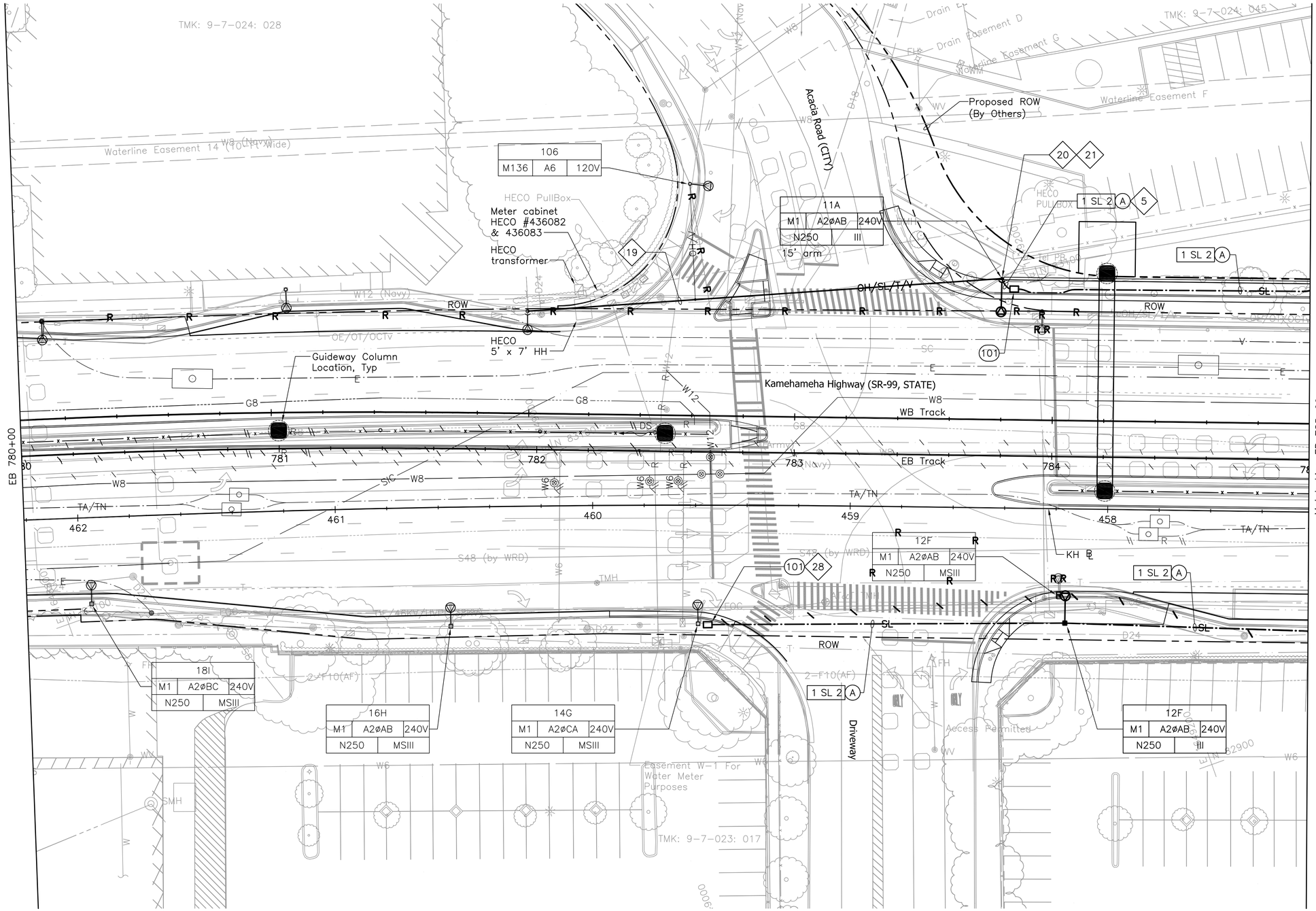
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION
ELECTRICAL & COMMUNICATIONS

EB 963+00 TO EB 968+00

Contract No.: DB–320
CADD File: KHDB–D03–UP340
Drawing No: UP340 Rev. A
Scale: 1"=20'
Page No. 133 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D03-UP301-UP340.dwg, KHDB-D03-UP340, 3/12/2010 5:01:48 PM, deyn, 1:1



N

NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

28 Intercept existing street lighting conduit with new pull box and conduit/s indicated. Provide new wiring to restore circuit continuity that existed. Wire size and quantity shall as a minimum match what existed. Provide an equipment grounding conductor with new current carrying conductors.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

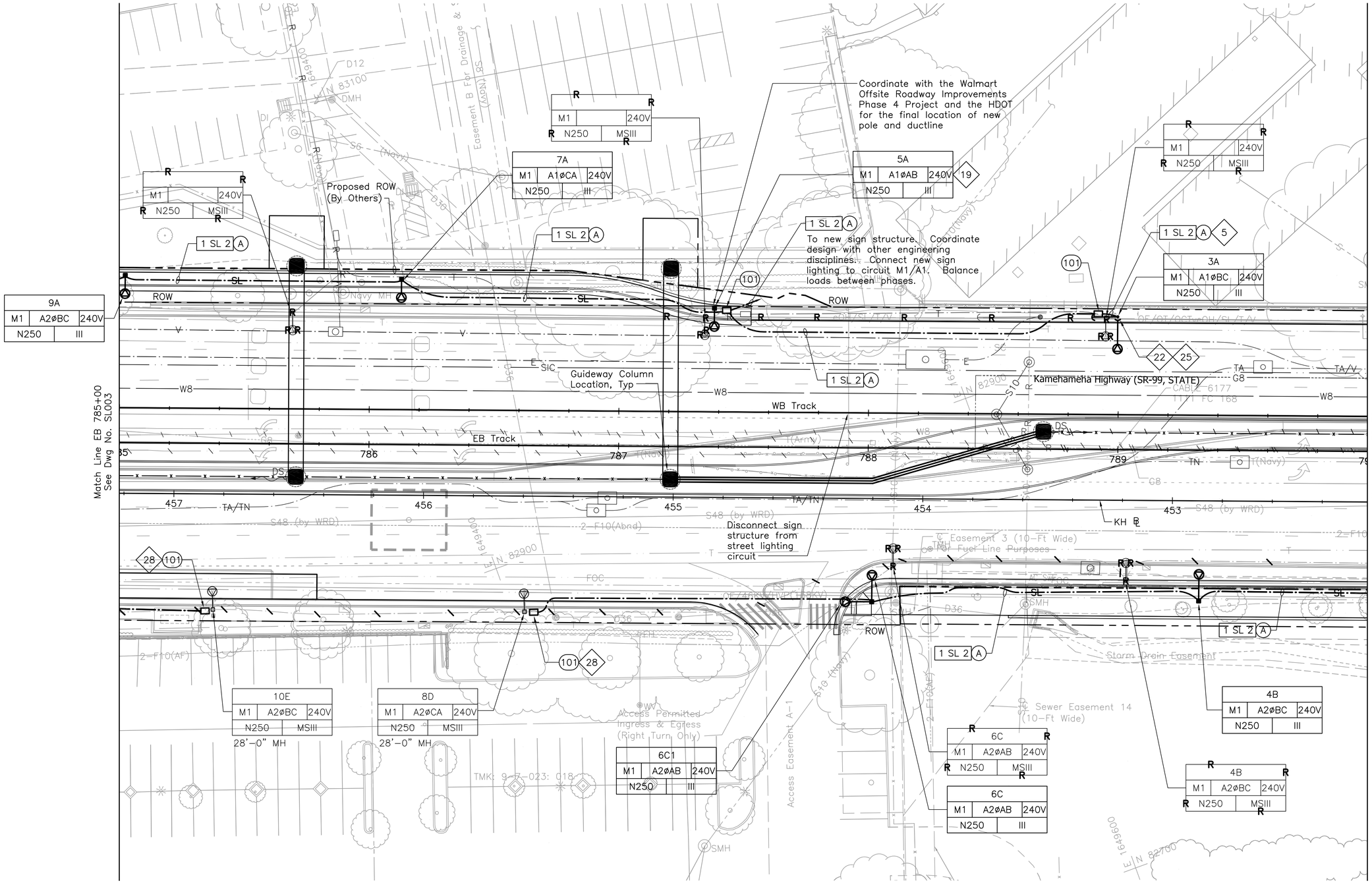
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 780+00 TO EB 785+00

Contract No.: DB-320
CADD File: KHDB-D04-SL003
Drawing No: SL003 Rev. A
Scale: 1"=20'
Page No. 142 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL003, 3/12/2010 5:07:47 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

22 Provide new wood joint pole. See Detail 1/UP407.

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

28 Intercept existing street lighting conduit with new pull box and conduit/s indicated. Provide new wiring to restore circuit continuity that existed. Wire size and quantity shall as a minimum match what existed. Provide an equipment grounding conductor with new current carrying conductors.

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

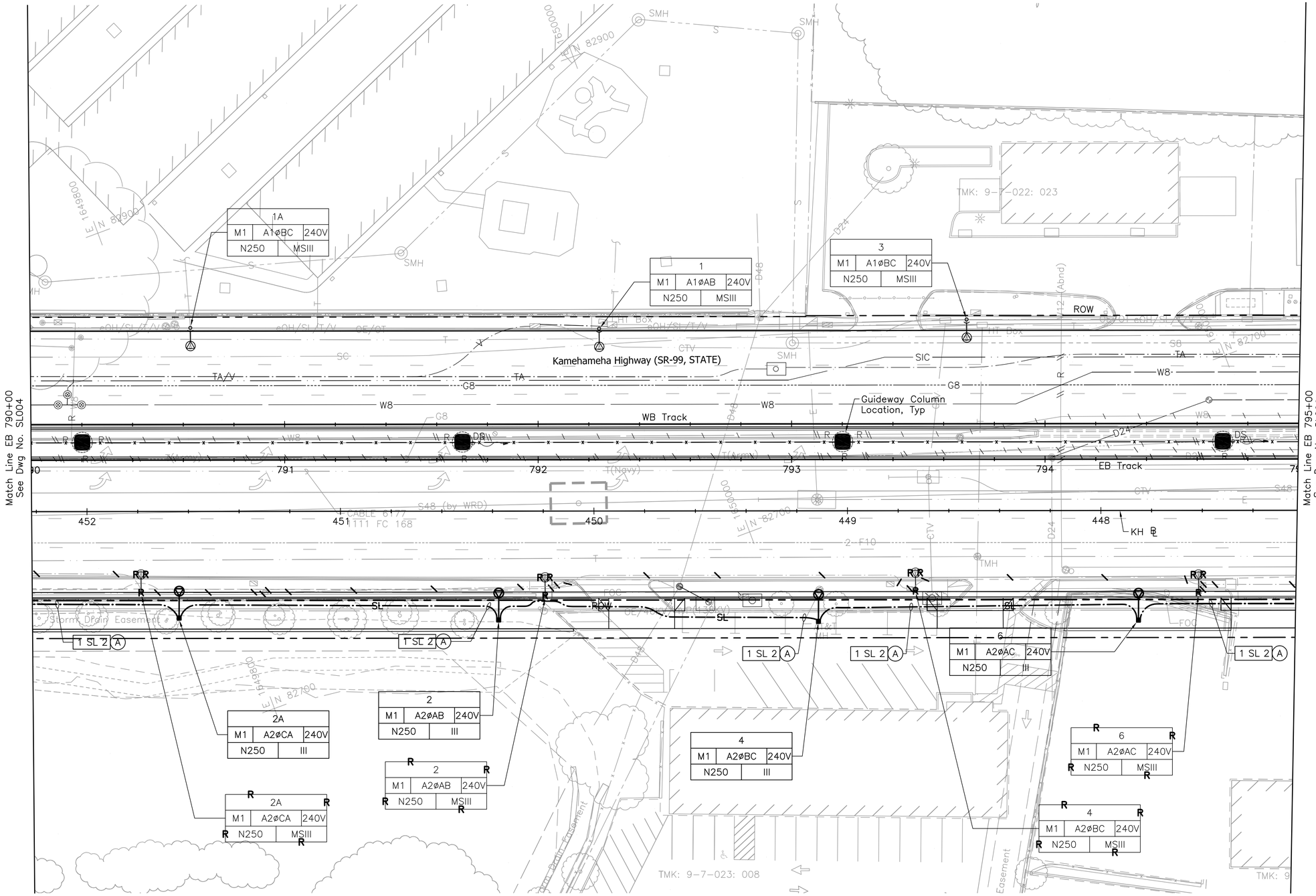
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 785+00 TO EB 790+00

Contract No.: DB–320
CADD File: KHDB–D04–SL004
Drawing No: SL004
Rev. A
Scale: 1"=20'
Page No. 143 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL004, 3/12/2010 5:08:30 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

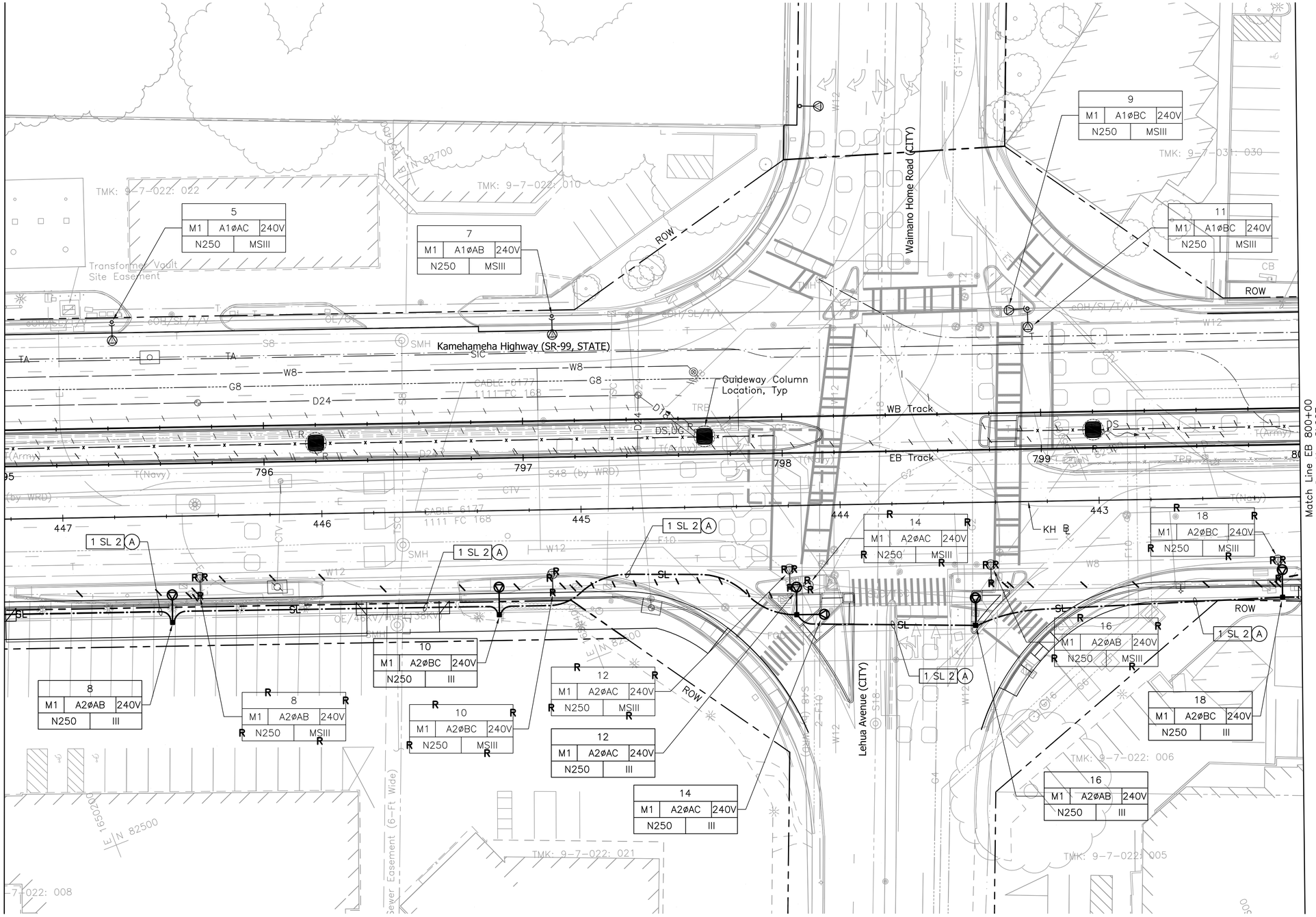
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 790+00 TO EB 795+00

Contract No.: DB–320
CADD File: KHDB–D04–SL005
Drawing No: SL005
Rev. A
Scale: 1"=20'
Page No. 144 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL005, 3/12/2010 5:09:12 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

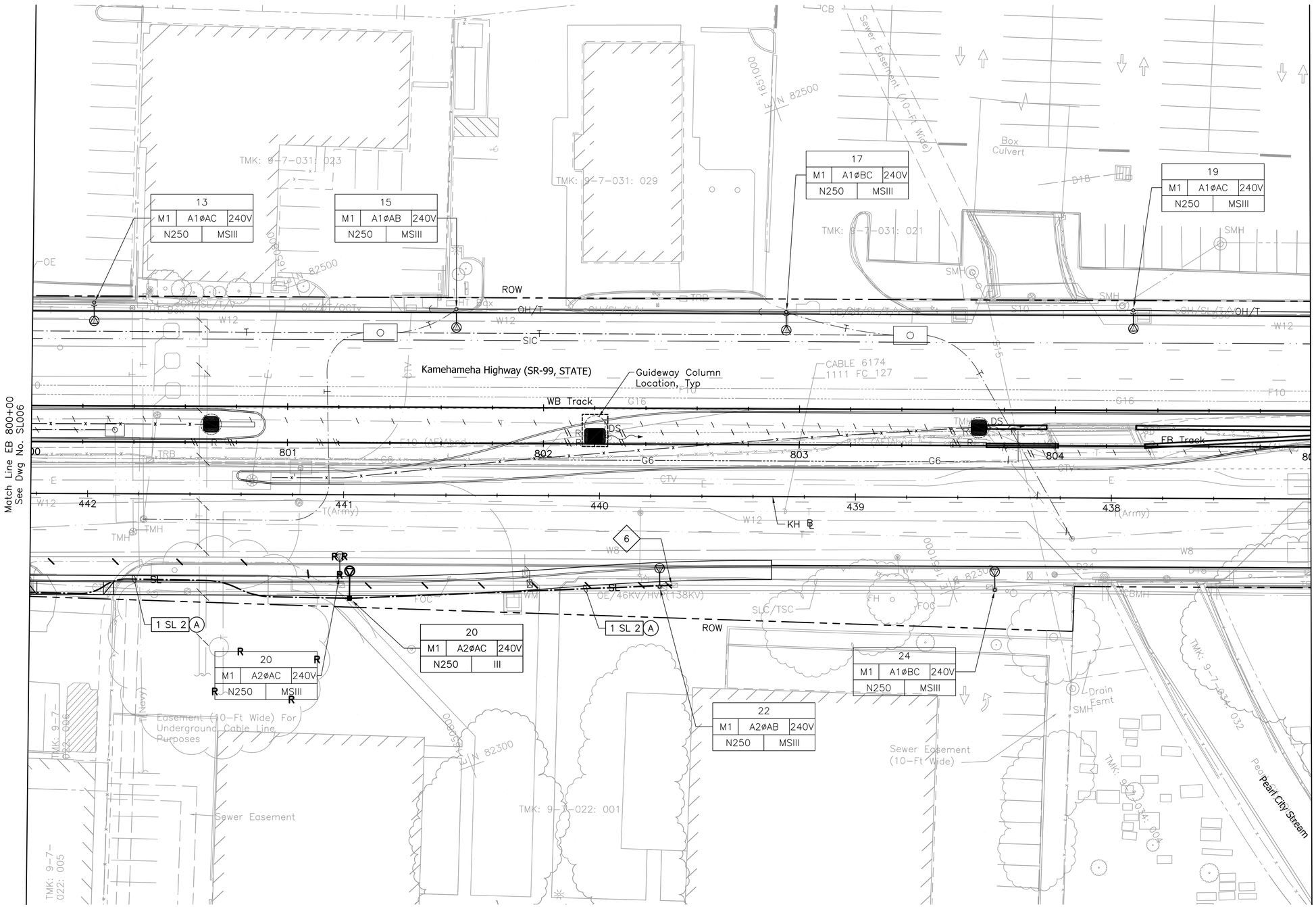
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 795+00 TO EB 800+00

Contract No.: DB–320
CADD File: KHDB–D04–SL006
Drawing No: SL006
Rev. A
Scale: 1"=20'
Page No. 145 of 186

Q:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL006, 3/12/2010 5:09:53 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

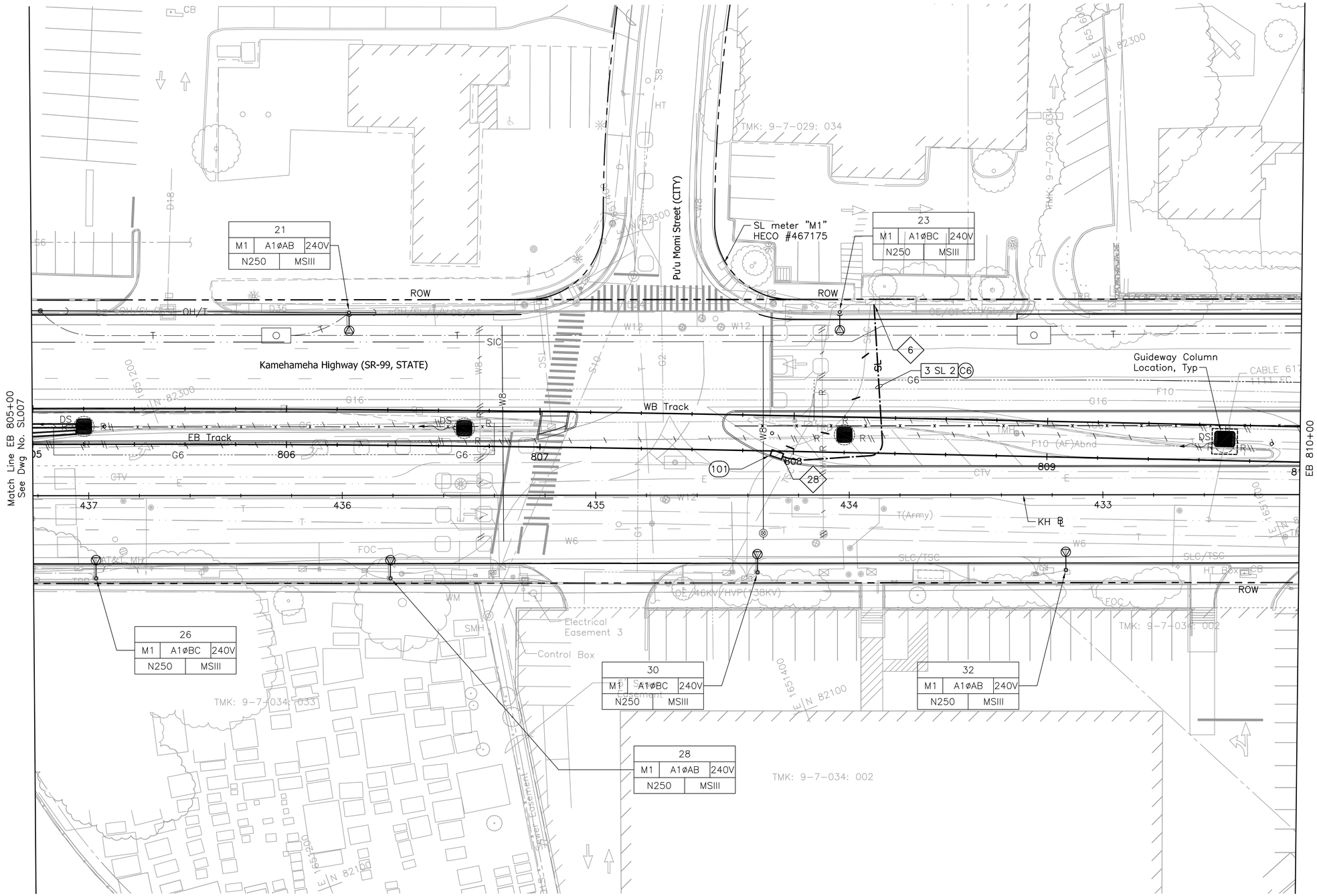
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 800+00 TO EB 805+00

Contract No.: DB–320
CADD File: KHDB–D04–SL007
Drawing No: SL007
Rev. A
Scale: 1"=20'
Page No. 146 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL007, 3/12/2010 5:10:37 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

28 Intercept existing street lighting conduit with new pull box and conduit/s indicated. Provide new wiring to restore circuit continuity that existed. Wire size and quantity shall as a minimum match what existed. Provide an equipment grounding conductor with new current carrying conductors.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

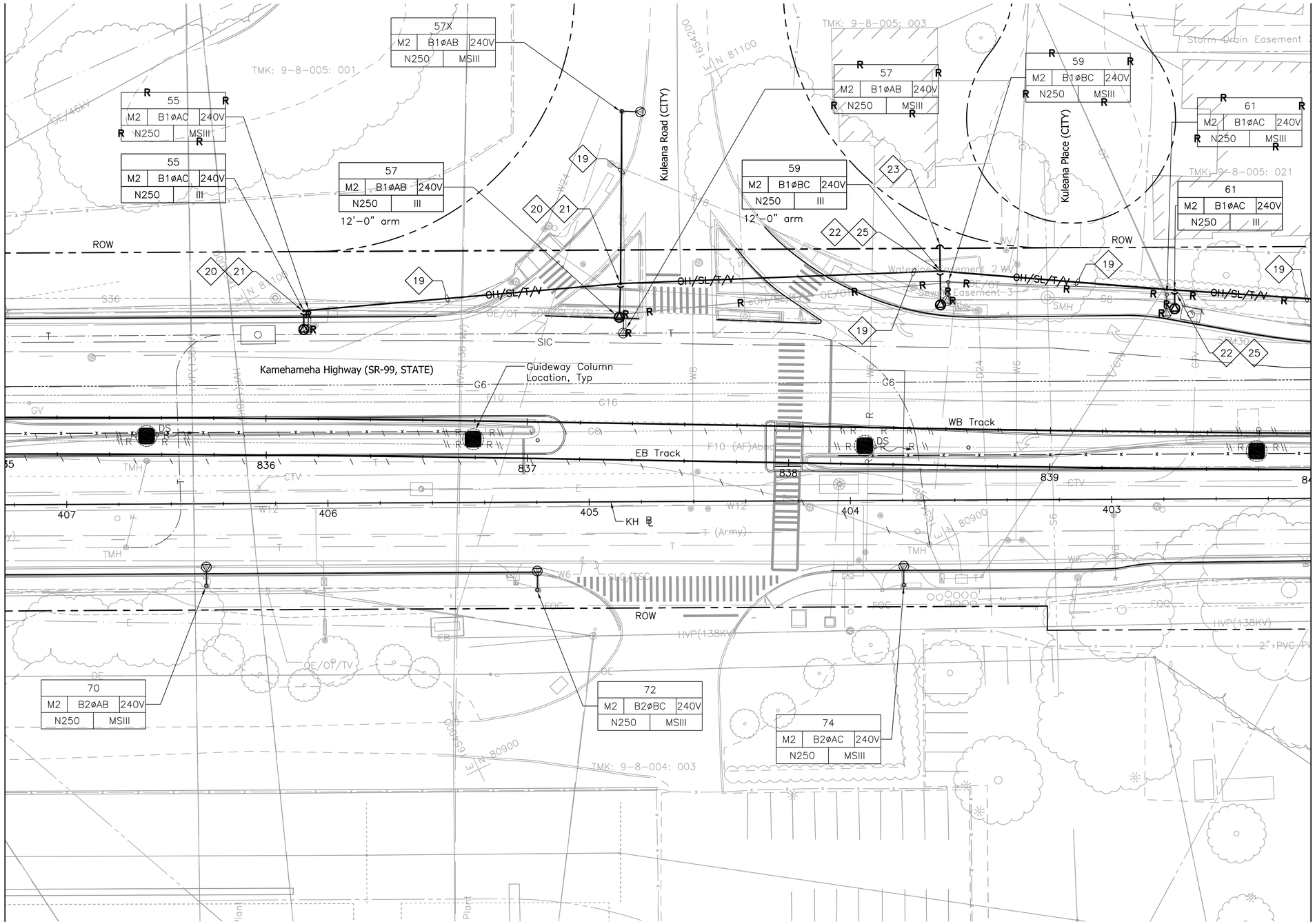
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 805+00 TO EB 810+00

Contract No.: DB–320
CADD File: KHDB–D04–SL008
Drawing No: SL008
Rev. A
Scale: 1"=20'
Page No. 147 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL008, 3/12/2010 5:11:12 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

22 Provide new wood joint pole. See Detail 1/UP407.

23 Provide new anchor. See Detail 3/UP407.

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

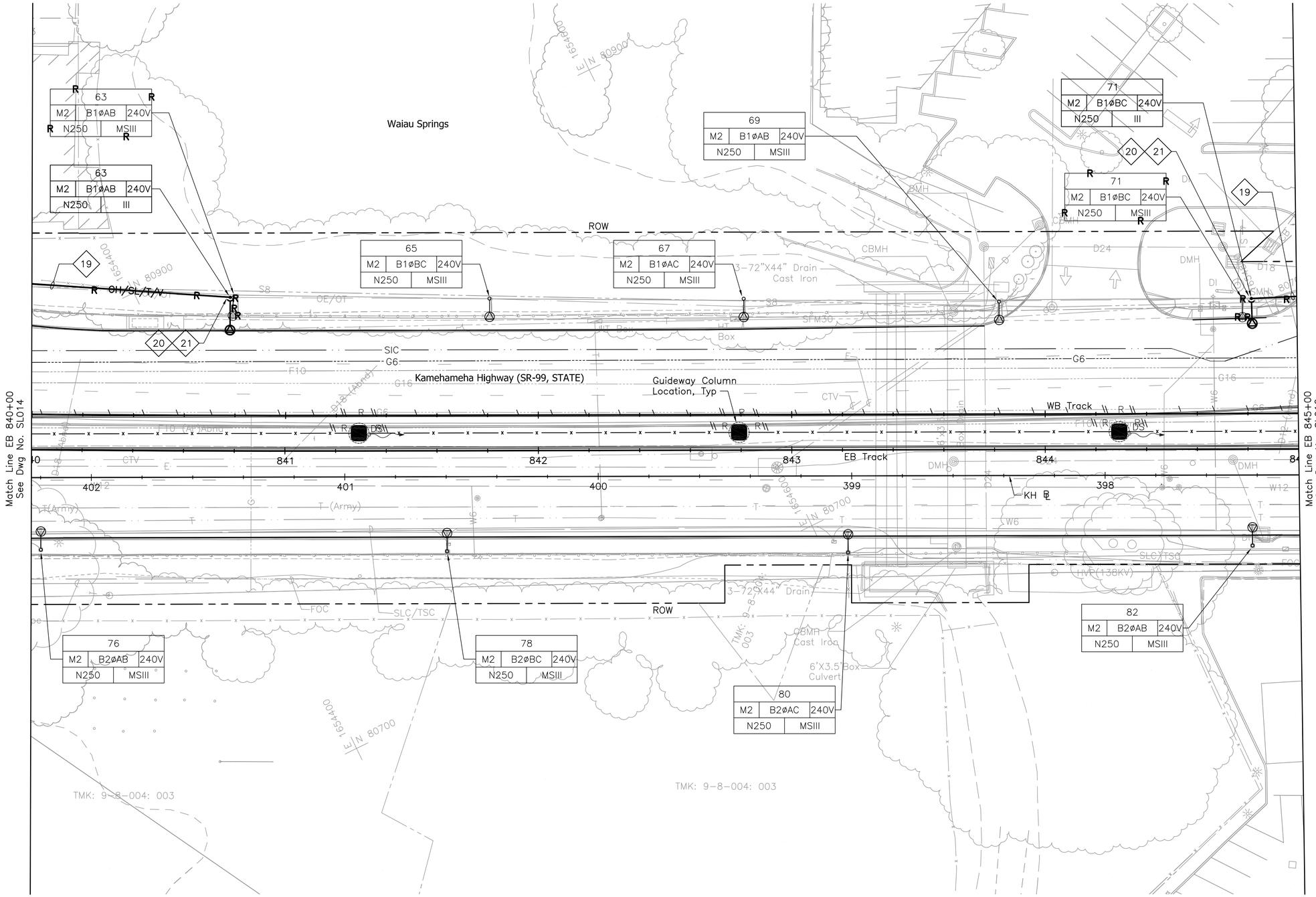
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
STREET LIGHTING

EB 835+00 TO EB 840+00

Contract No.: DB-320
CADD File: KHDB-D04-SL014
Drawing No: SL014 Rev. A
Scale: 1"=20'
Page No. 148 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL014, 3/12/2010 5:11:47 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

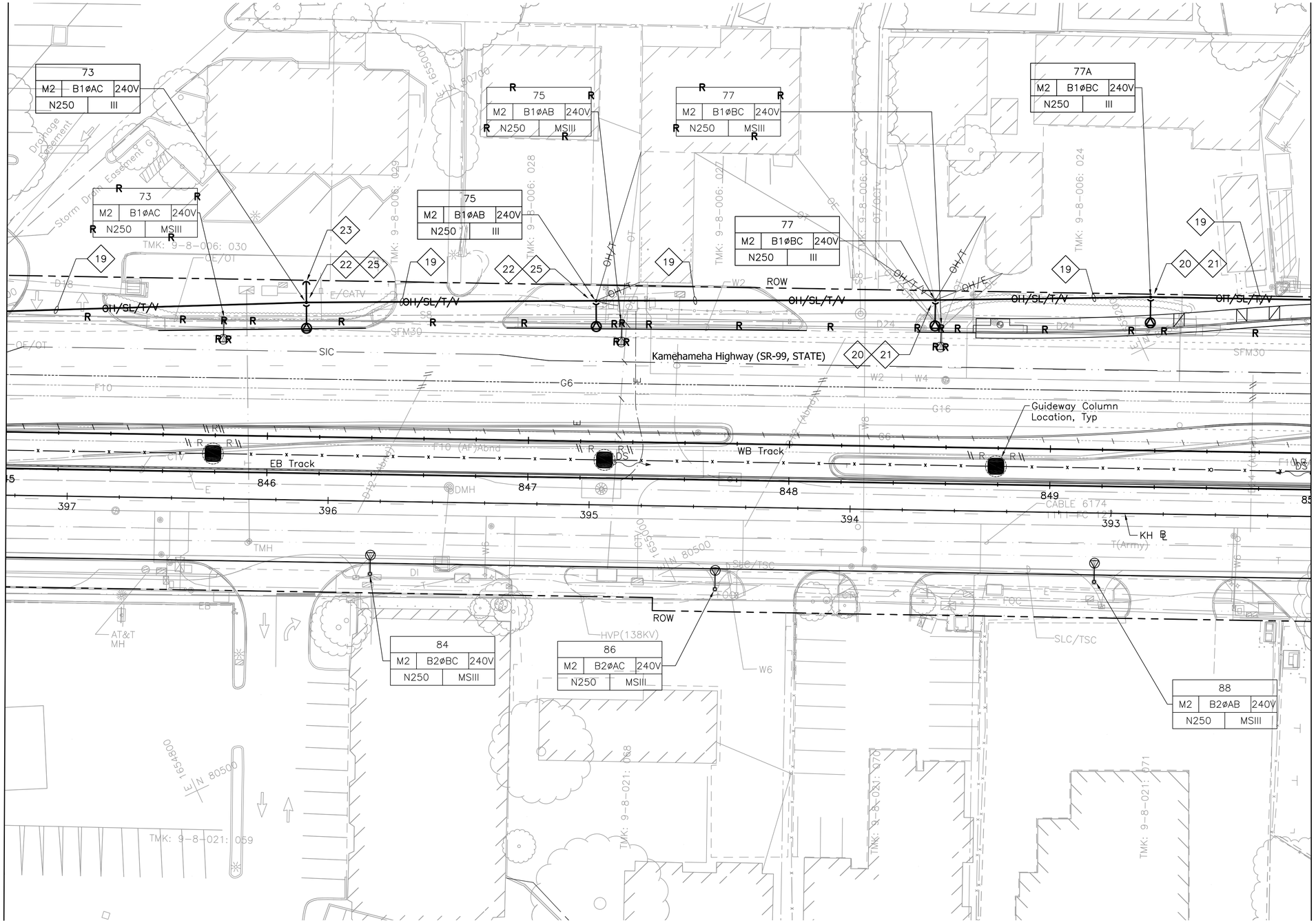
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 840+00 TO EB 845+00

Contract No.: DB-320
CADD File: KHDB-D04-SL015
Drawing No: SL015 Rev. A
Scale: 1"=20'
Page No. 149 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL015, 3/12/2010 5:12:24 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

22 Provide new wood joint pole. See Detail 1/UP407.

23 Provide new anchor. See Detail 3/UP407.

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

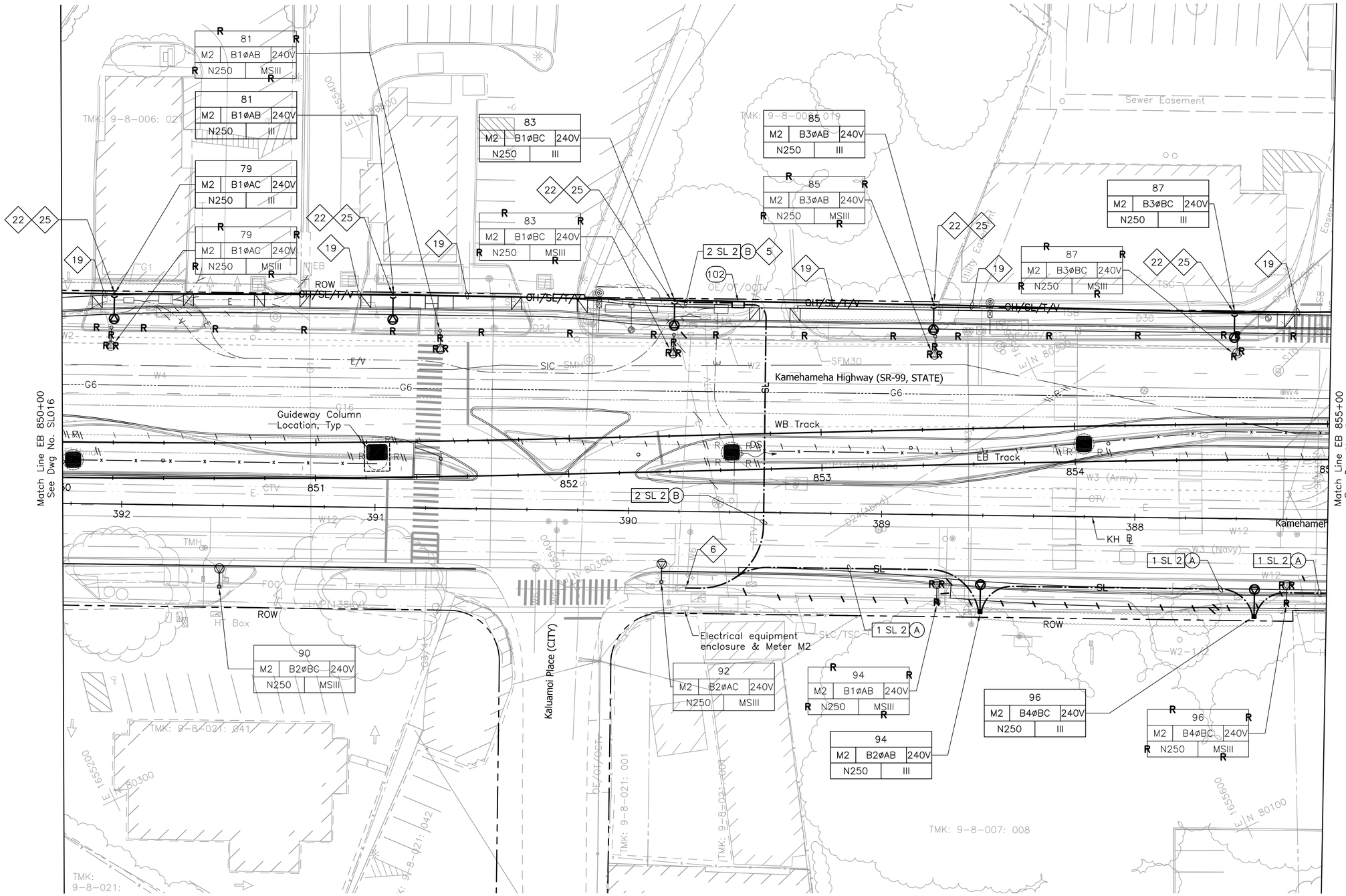
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
STREET LIGHTING

EB 845+00 TO EB 850+00

Contract No.: DB-320
CADD File: KHDB-D04-SL016
Drawing No: SL016 Rev. A
Scale: 1"=20'
Page No. 150 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL016, 3/12/2010 5:13:03 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

22 Provide new wood joint pole. See Detail 1/UP407.

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

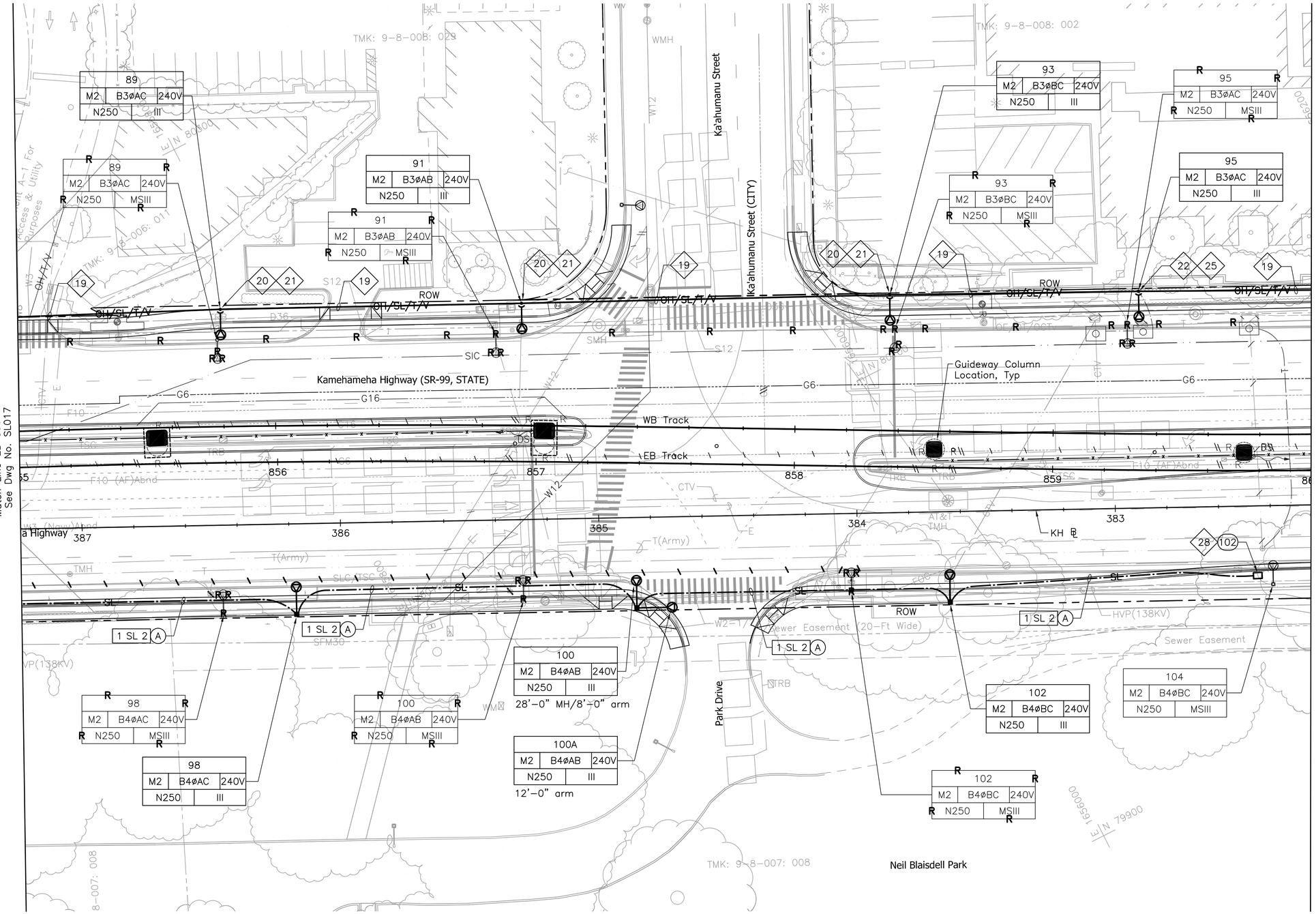
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 850+00 TO EB 855+00

Contract No.: DB-320
CADD File: KHDB-D04-SL017
Drawing No: SL017 Rev. A
Scale: 1"=20'
Page No. 151 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL017, 3/12/2010 5:13:39 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

22 Provide new wood joint pole. See Detail 1/UP407.

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

28 Intercept existing street lighting conduit with new pull box and conduit/s indicated. Provide new wiring to restore circuit continuity that existed. Wire size and quantity shall as a minimum match what existed. Provide an equipment grounding conductor with new current carrying conductors.

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

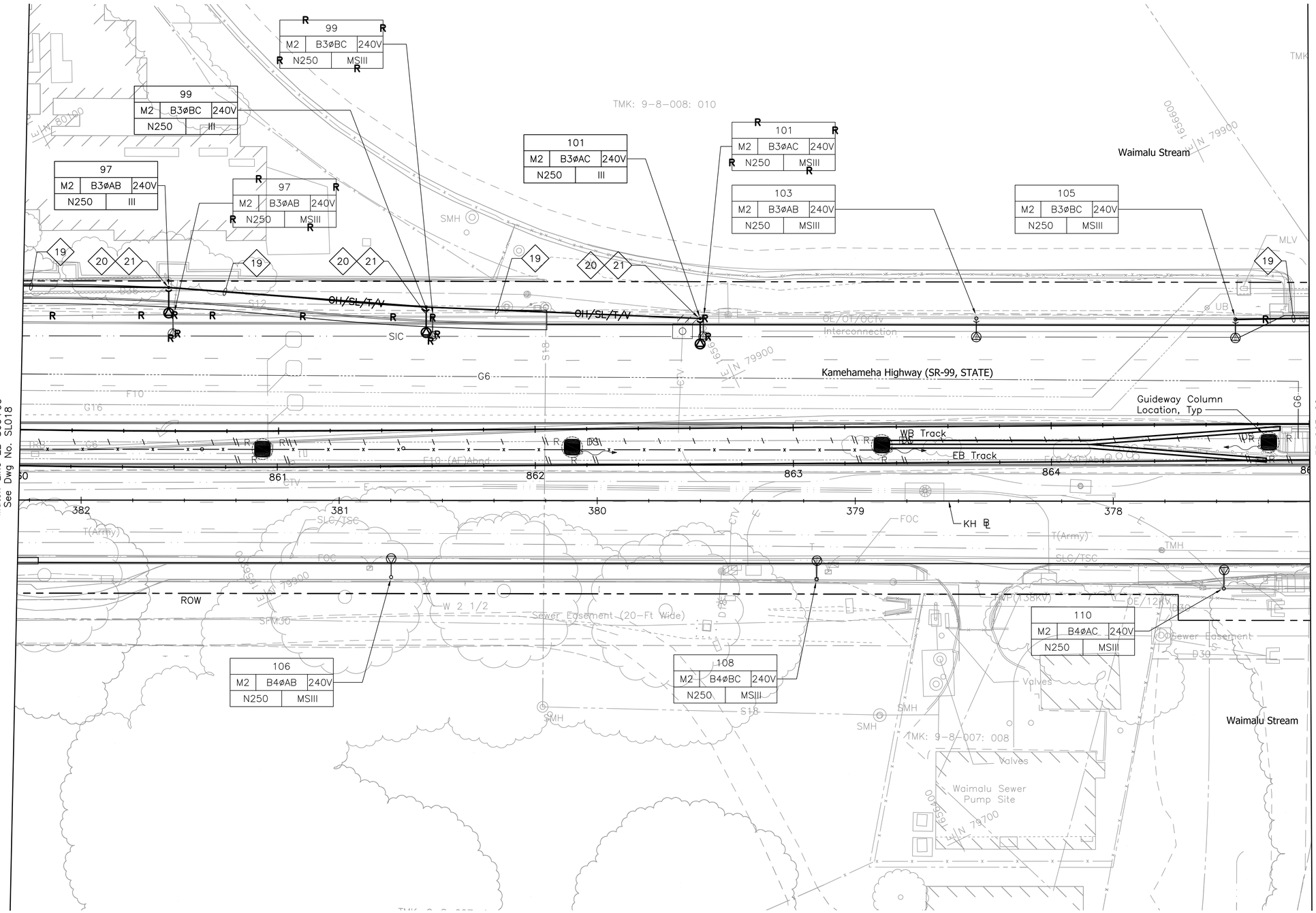
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 855+00 TO EB 860+00

Contract No.: DB-320
CADD File: KHDB-D04-SL018
Drawing No: SL018 Rev. A
Scale: 1"=20'
Page No. 152 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL018, 3/12/2010 5:14:13 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 - Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

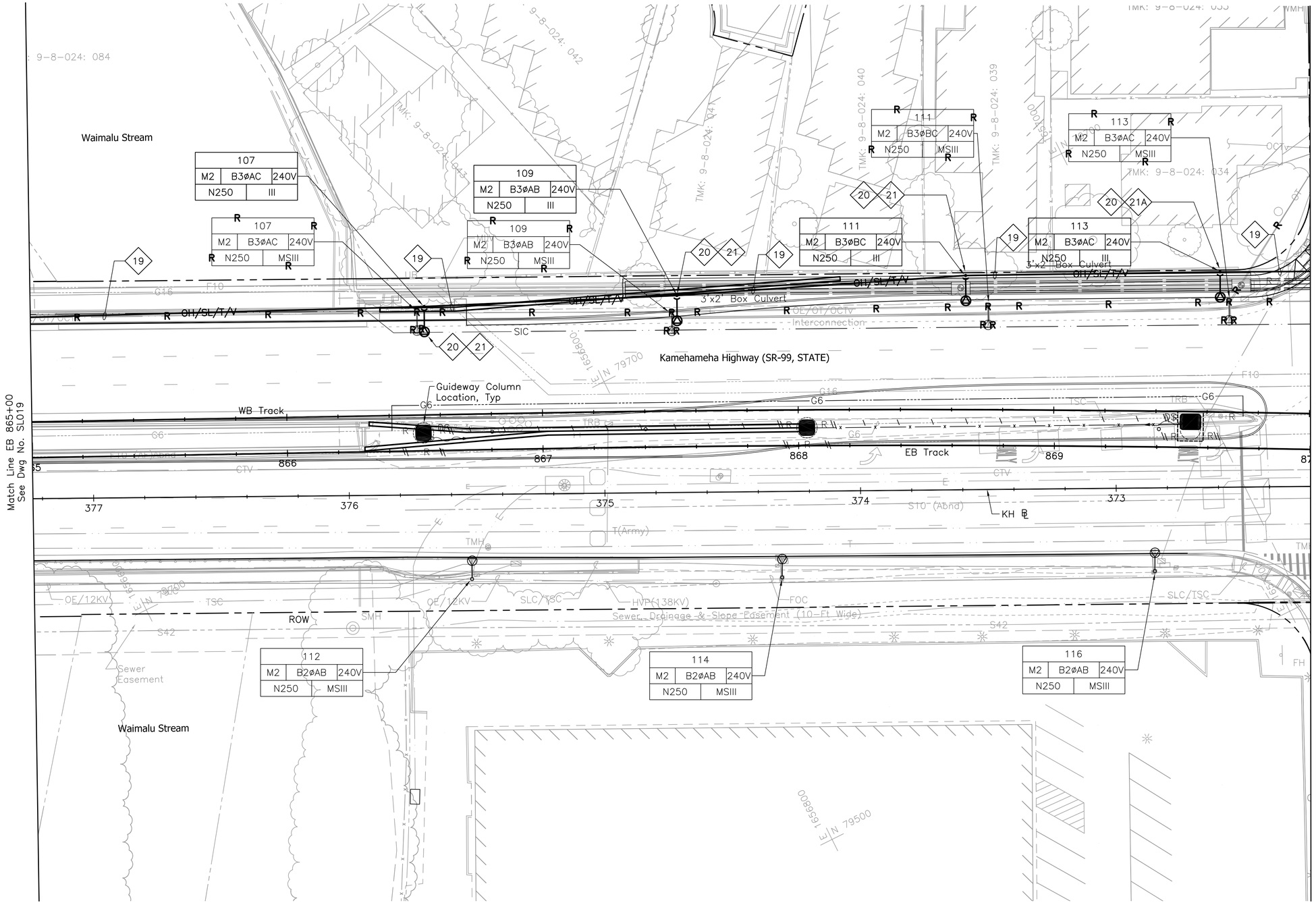
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 860+00 TO EB 865+00

Contract No.: DB-320
CADD File: KHDB-D04-SL019
Drawing No: SL019 Rev. A
Scale: 1"=20'
Page No. 153 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL019, 3/12/2010 5:14:46 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

21A Provide new self-sustaining metallic joint pole. (By Others).

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

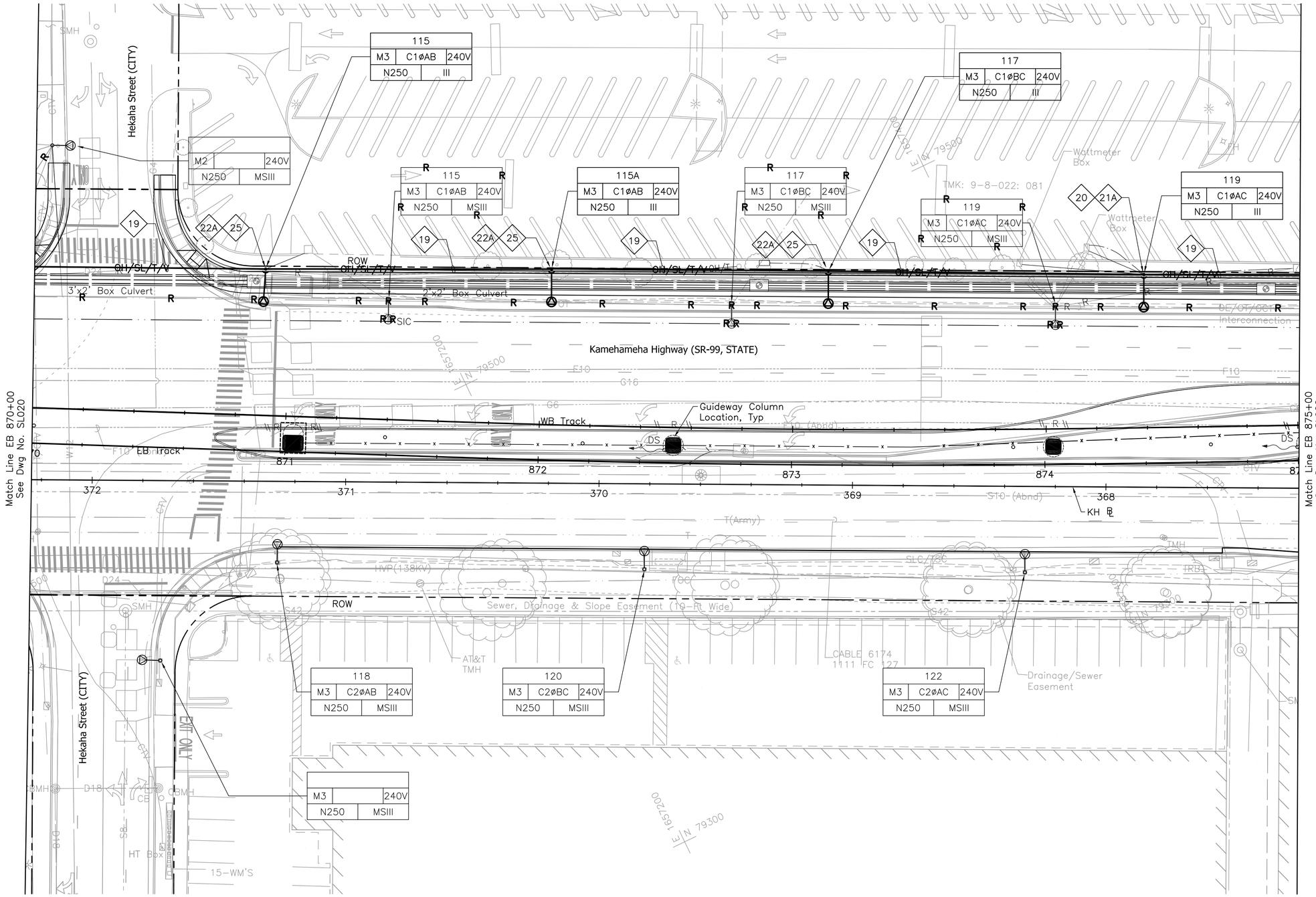
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 865+00 TO EB 870+00

Contract No.: DB-320
CADD File: KHDB-D04-SL020
Drawing No: SL020 Rev. A
Scale: 1"=20'
Page No. 154 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL020, 3/12/2010 5:15:28 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21A Provide new self-sustaining metallic joint pole. (By Others).

22A Provide new wood joint pole. (By Others).

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

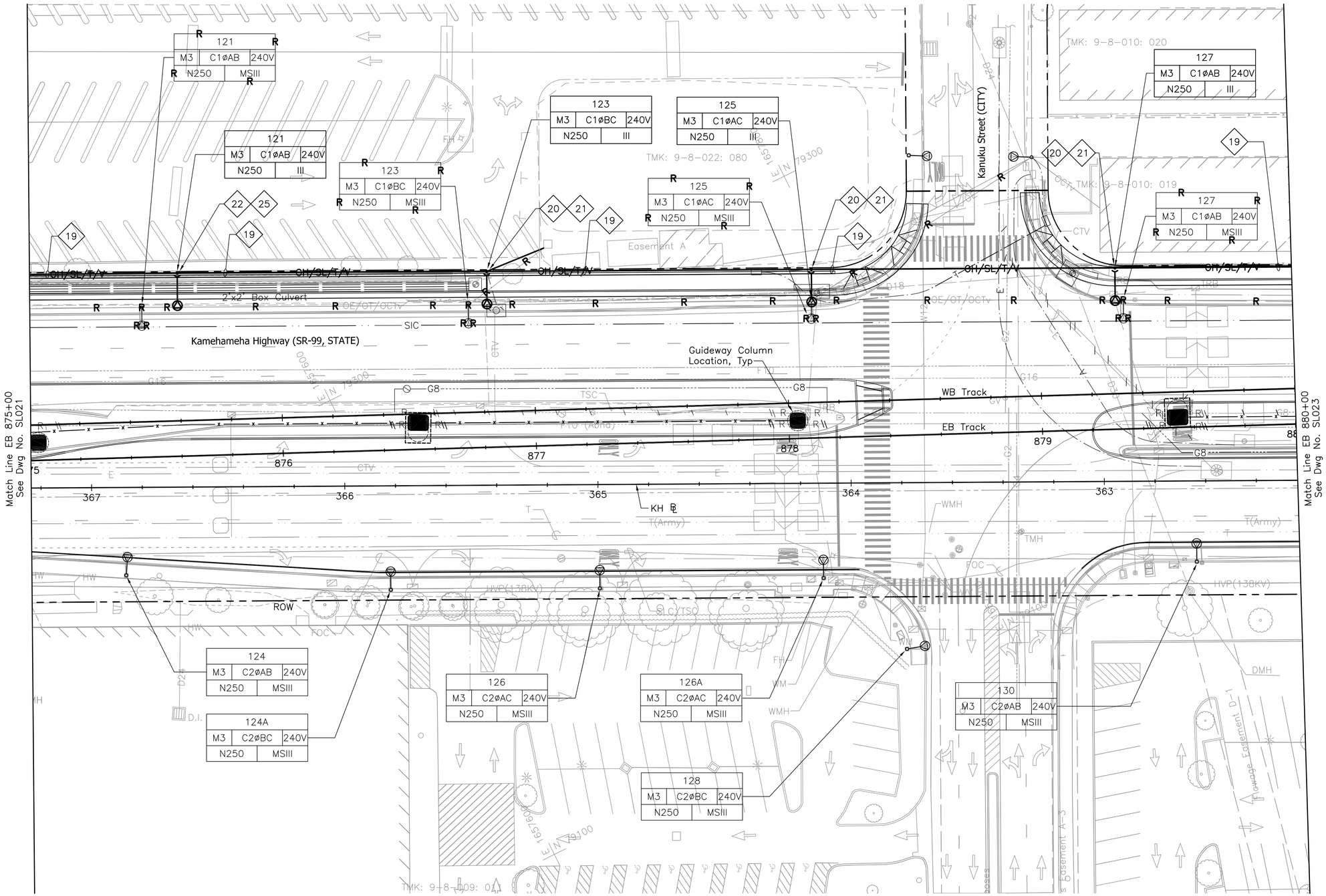
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
STREET LIGHTING

EB 870+00 TO EB 875+00

Contract No.: DB-320
CADD File: KHDB-D04-SL021
Drawing No: SL021 Rev. A
Scale: 1"=20'
Page No. 155 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL021, 3/12/2010 5:16:03 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

22 Provide new wood joint pole. See Detail 1/UP407.

25 Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

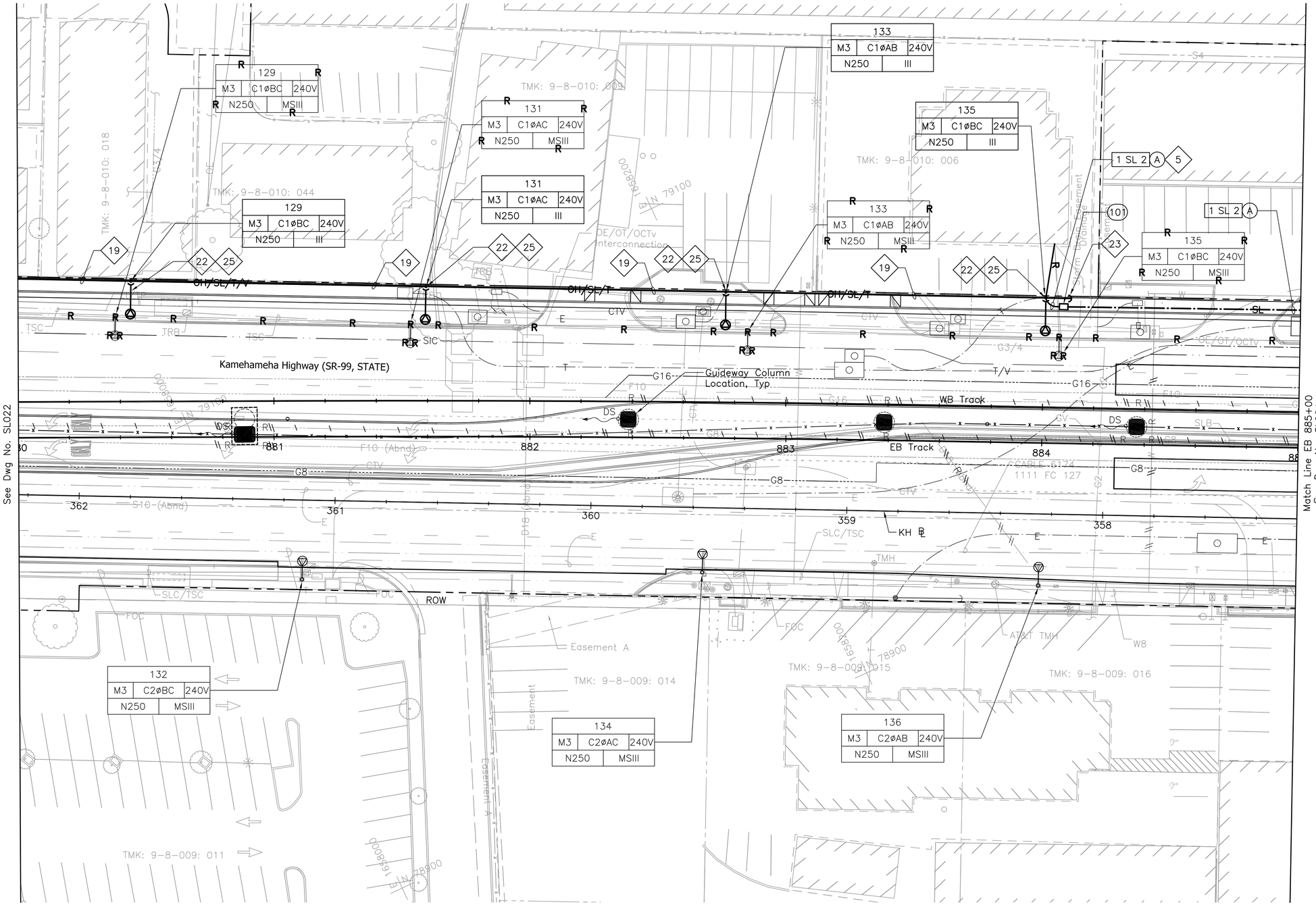
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
STREET LIGHTING

EB 875+00 TO EB 880+00

Contract No.: DB-320
CADD File: KHDB-D04-SL022
Drawing No: SL022 Rev. A
Scale: 1"=20'
Page No. 156 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL022, 3/12/2010 5:16:36 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

22 Provide new wood joint pole. See Detail 1/UP407.

23 Provide new anchor. See Detail 3/UP407.

25 Provide new highway lighting fixture and new wood pole and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

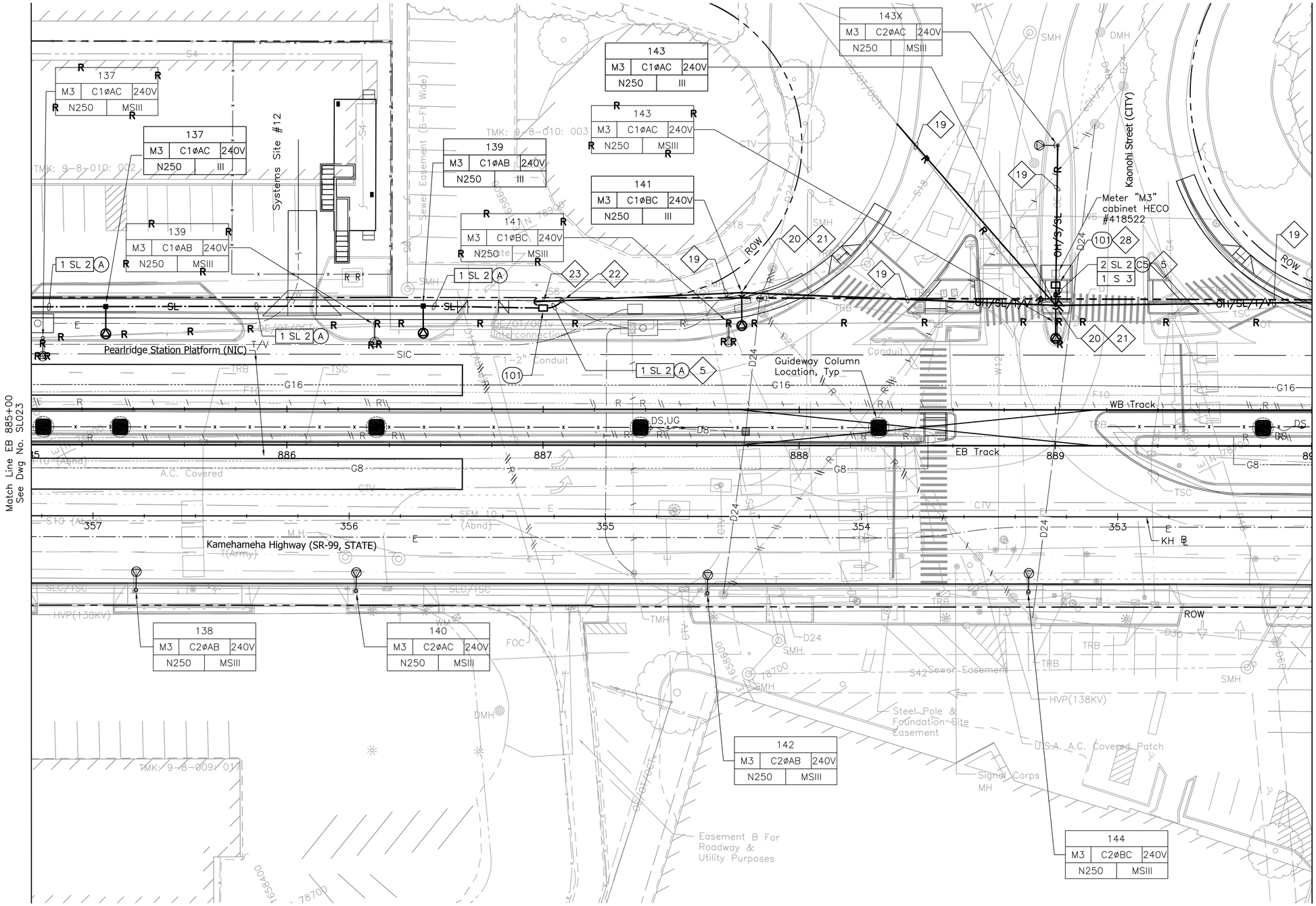
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 880+00 TO EB 885+00

Contract No.: DB–320
CADD File: KHDB–D04–SL023
Drawing No: SL023 Rev. A
Scale: 1"=20'
Page No. 157 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL023, 3/12/2010 5:17:35 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

22 Provide new wood joint pole. See Detail 1/UP407.

23 Provide new anchor. See Detail 3/UP407.

28 Intercept existing street lighting conduit with new pull box and conduit/s indicated. Provide new wiring to restore circuit continuity that existed. Wire size and quantity shall as a minimum match what existed. Provide an equipment grounding conductor with new current carrying conductors.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

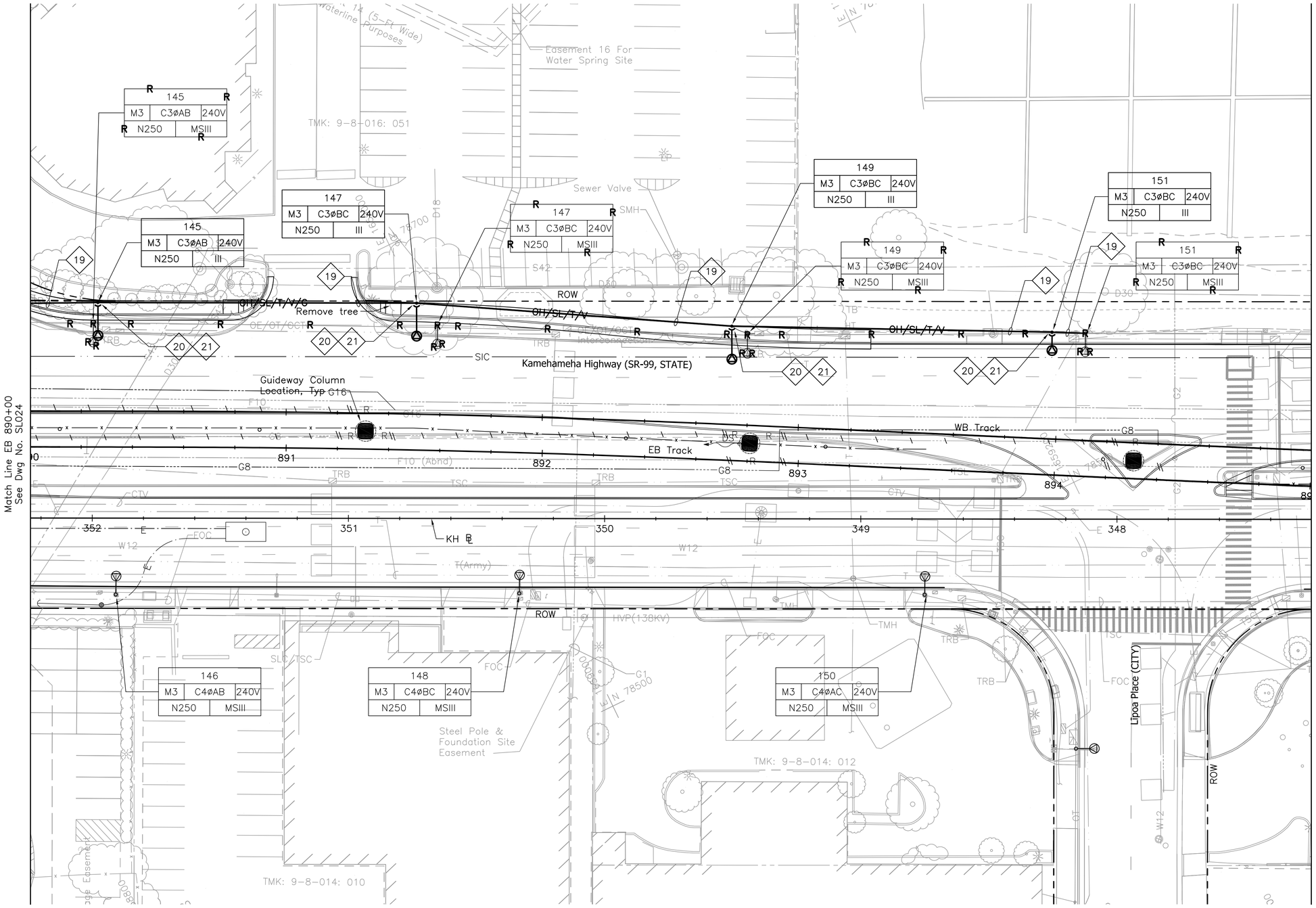
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
STREET LIGHTING

EB 885+00 TO EB 890+00

Contract No.: DB-320
CADD File: KHDB-D04-SL024
Drawing No: SL024 Rev. A
Scale: 1"=20'
Page No. 158 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL024, 3/12/2010 5:18:11 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

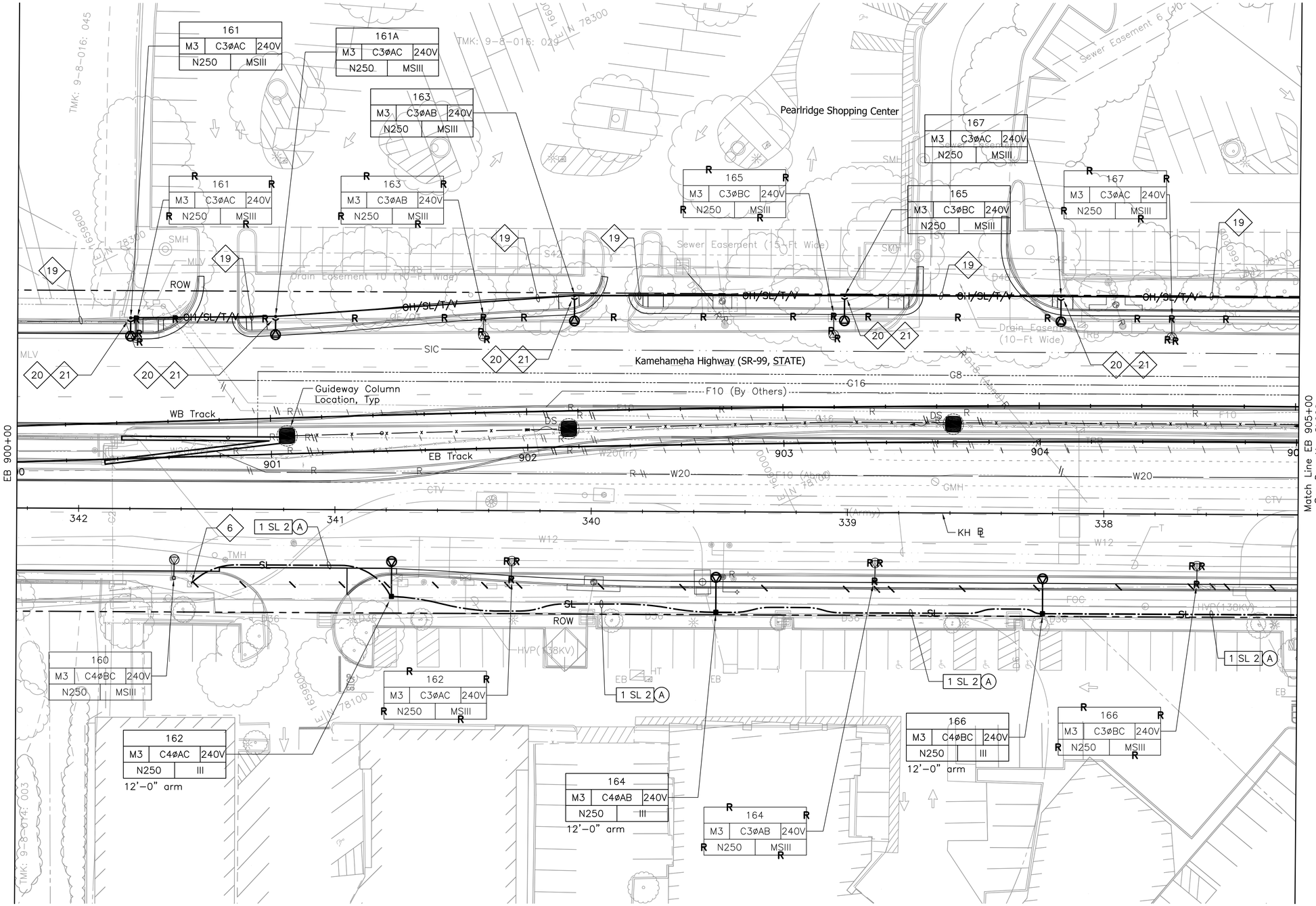
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 890+00 TO EB 895+00

Contract No.: DB-320
CADD File: KHDB-D04-SL025
Drawing No: SL025
Rev. A
Scale: 1"=20'
Page No. 159 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL025, 3/12/2010 5:18:45 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

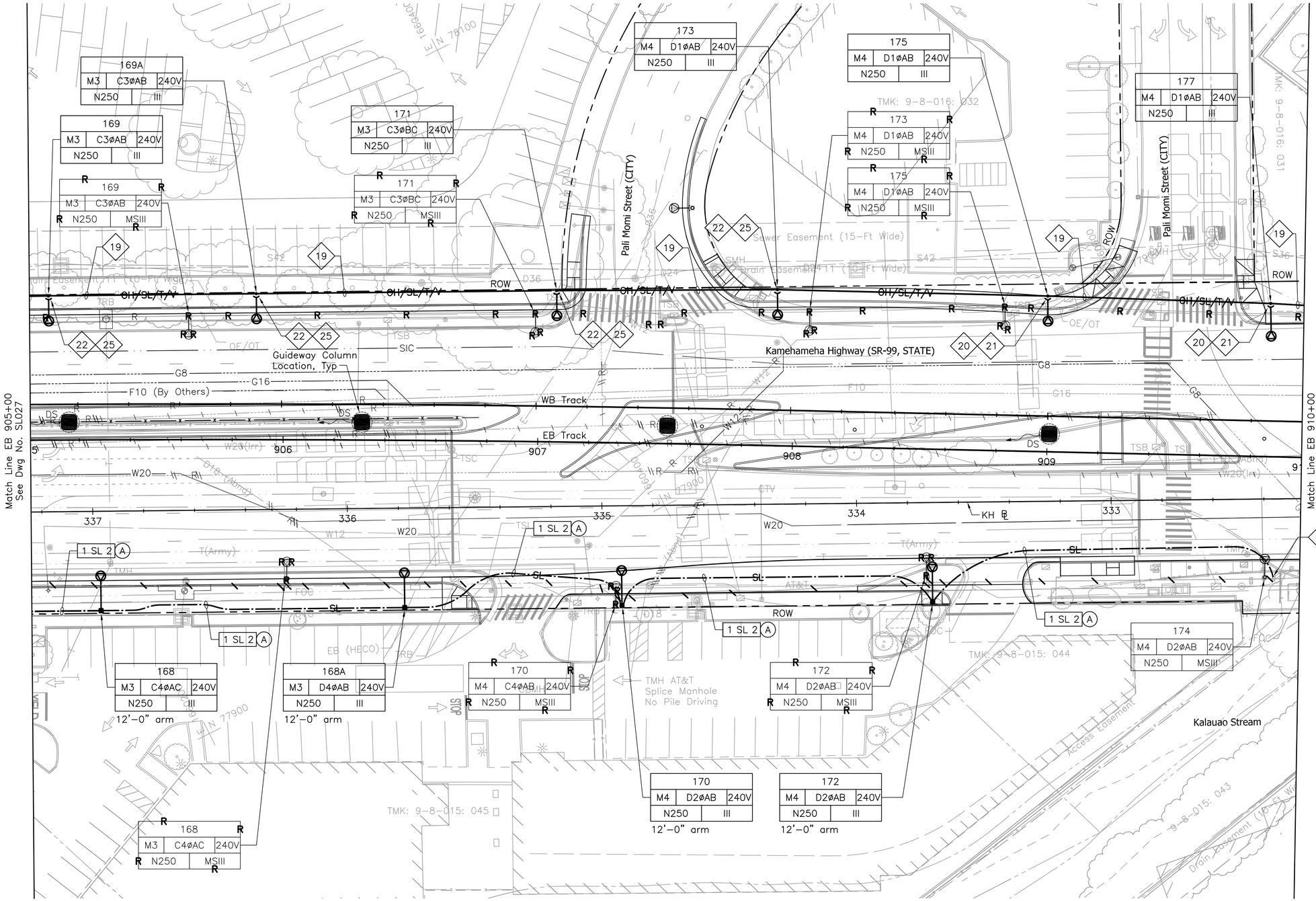
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 900+00 TO EB 905+00

Contract No.: DB-320
CADD File: KHDB-D04-SL027
Drawing No: SL027 Rev. A
Scale: 1"=20'
Page No. 160 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL027, 3/12/2010 5:19:20 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

(6) Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

(19) Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

(20) Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

(21) Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

(22) Provide new wood joint pole. See Detail 1/UP407.

(25) Provide new highway lighting fixture and mount on new wood pole, and make connection to street lighting circuit. If power source is underground, provide conduit riser with weather head at street light level and make connections to lighting fixtures. Poles shall be designed and constructed to support telecom and related overhead cables. Coordinate design and construction with appropriate utility company.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

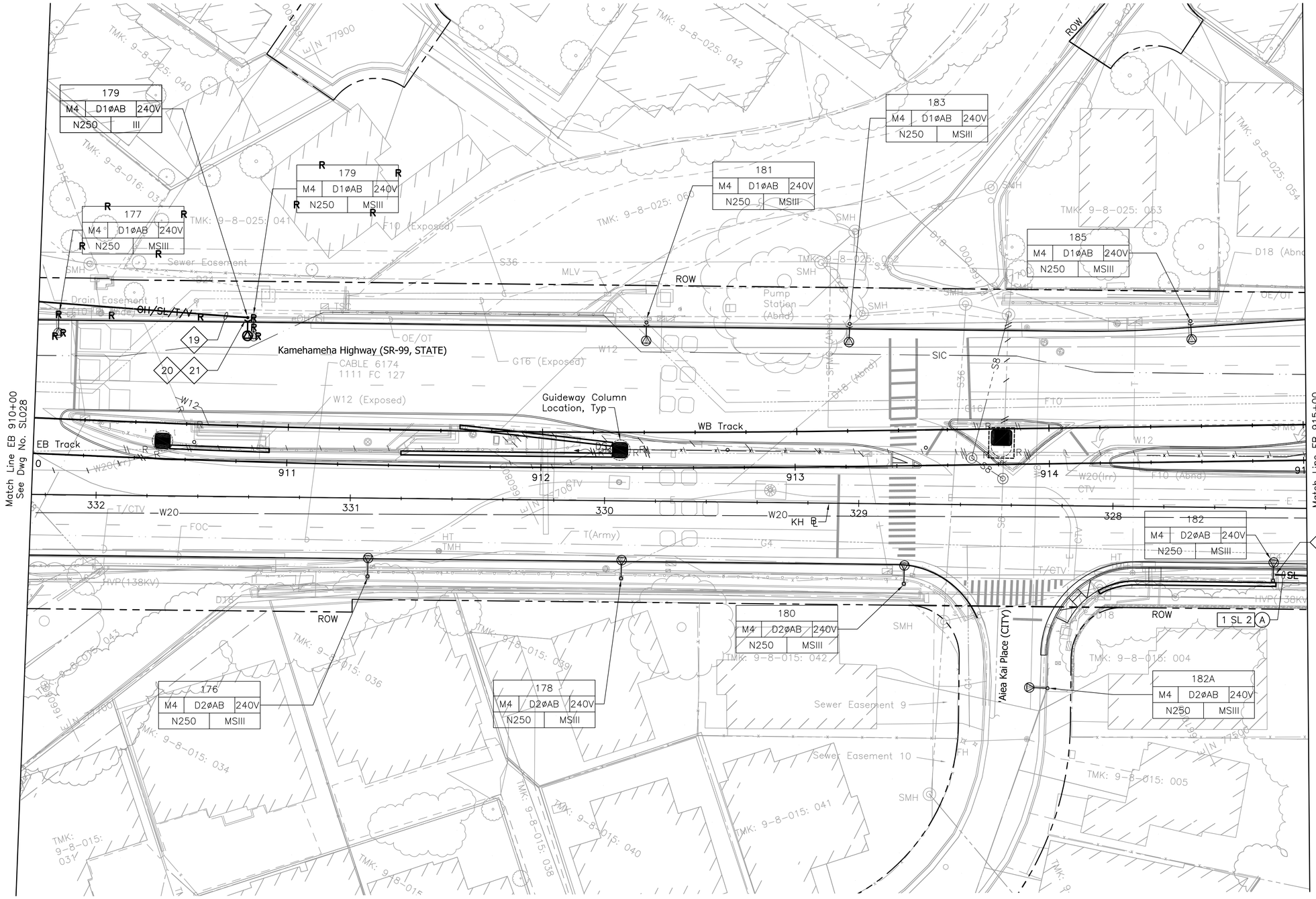
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
STREET LIGHTING

EB 905+00 TO EB 910+00

Contract No.: DB-320
CADD File: KHDB-D04-SL028
Drawing No: SL028 Rev. A
Scale: 1"=20'
Page No. 161 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL028, 3/12/2010 5:20:00 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

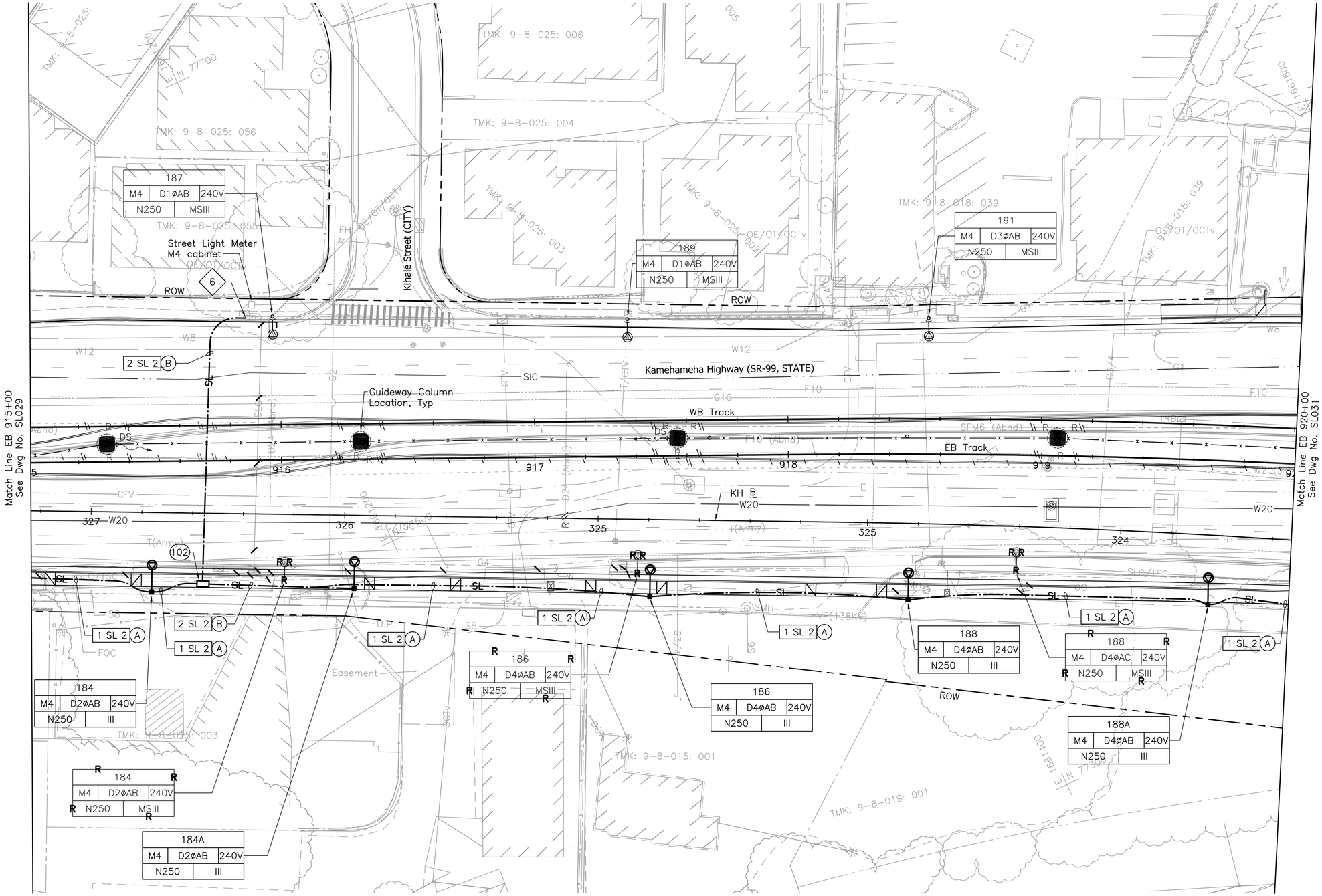
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
STREET LIGHTING

EB 910+00 TO EB 915+00

Contract No.: DB-320
CADD File: KHDB-D04-SL029
Drawing No: SL029 Rev. A
Scale: 1"=20'
Page No. 162 of 186

Q:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL029, 3/12/2010 5:20:36 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

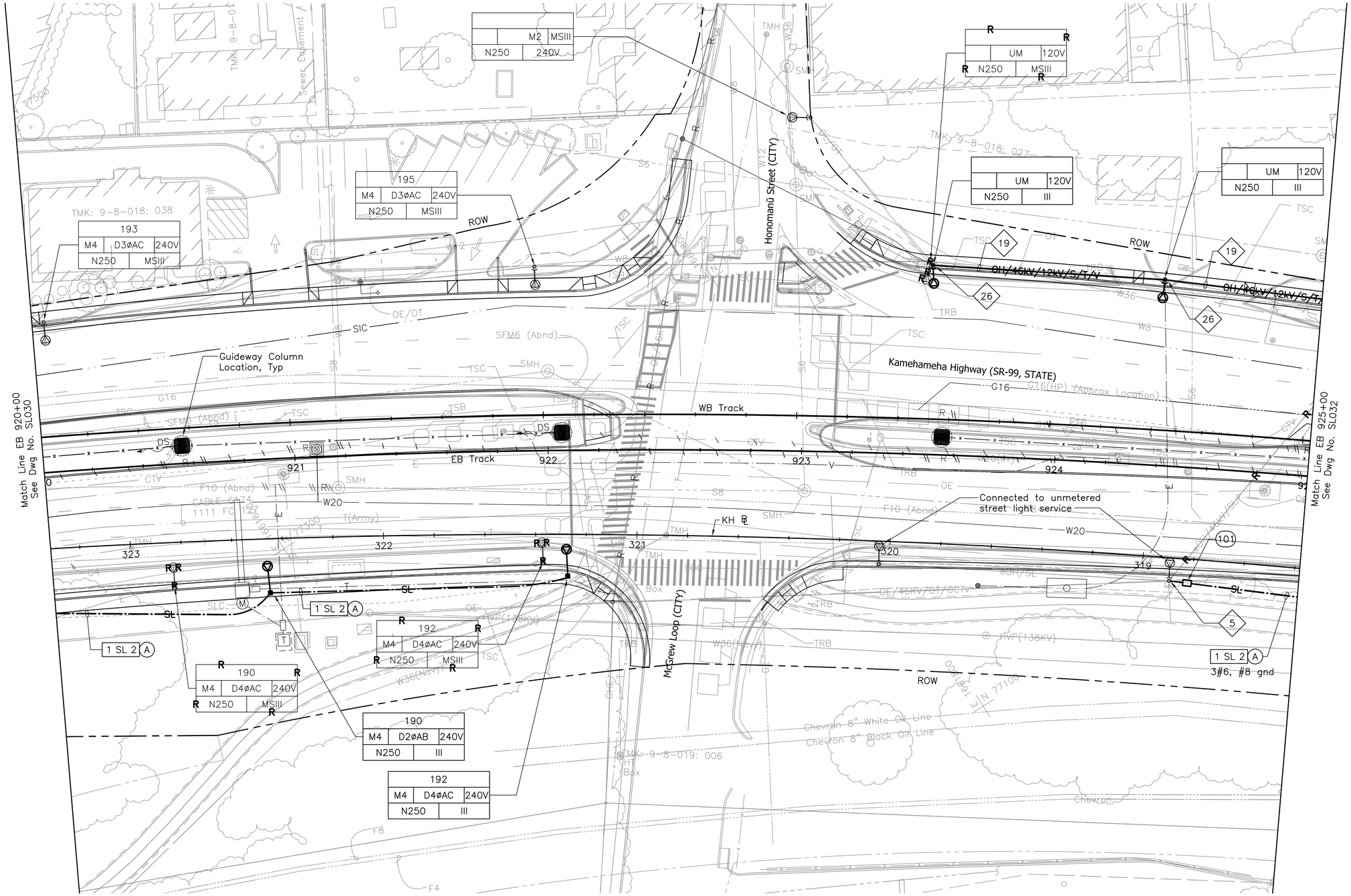
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 915+00 TO EB 920+00

Contract No.: DB–320
CADD File: KHDB–D04–SL030
Drawing No: SL030 Rev. A
Scale: 1"=20'
Page No. 163 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL030, 3/12/2010 5:21:13 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

26 Provide new highway lighting fixture on new joint steel pole provided by HECO. Unmetered final connection to HECO secondary system will be by HECO.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF, 1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers, 286 Kalihi Street, Honolulu, Hawaii 96819, Phone: (808) 848-8622, Fax: (808) 848-5574, E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

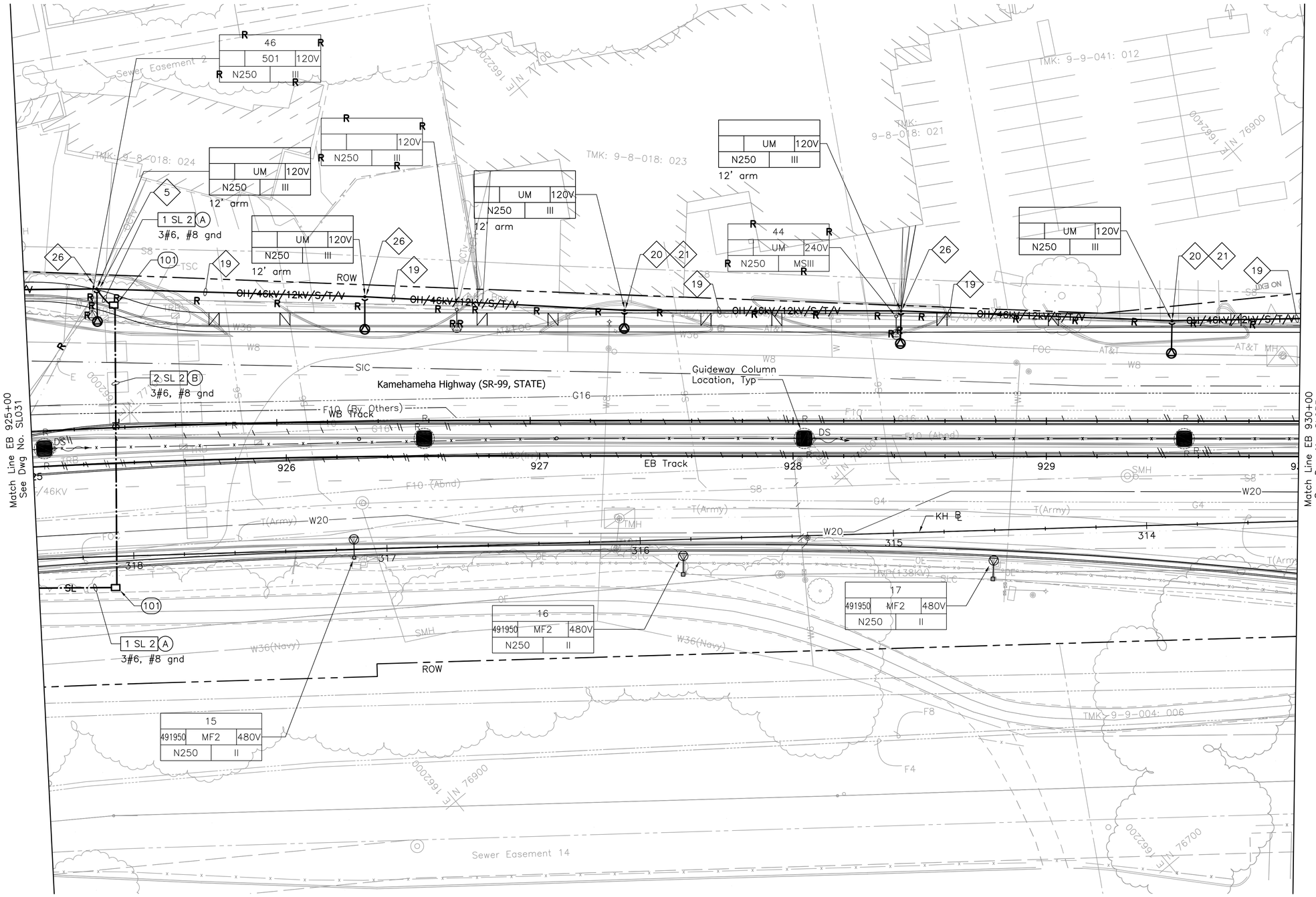
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 920+00 TO EB 925+00

Contract No.: DB–320
CADD File: KHDB–D04–SL031
Drawing No: SL031 Rev. A
Scale: 1"=20'
Page No. 164 of 186

Q:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL031, 3/12/2010 5:21:50 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

26 Provide new highway lighting fixture on new joint steel pole provided by HECO. Unmetered final connection to HECO secondary system will be by HECO.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

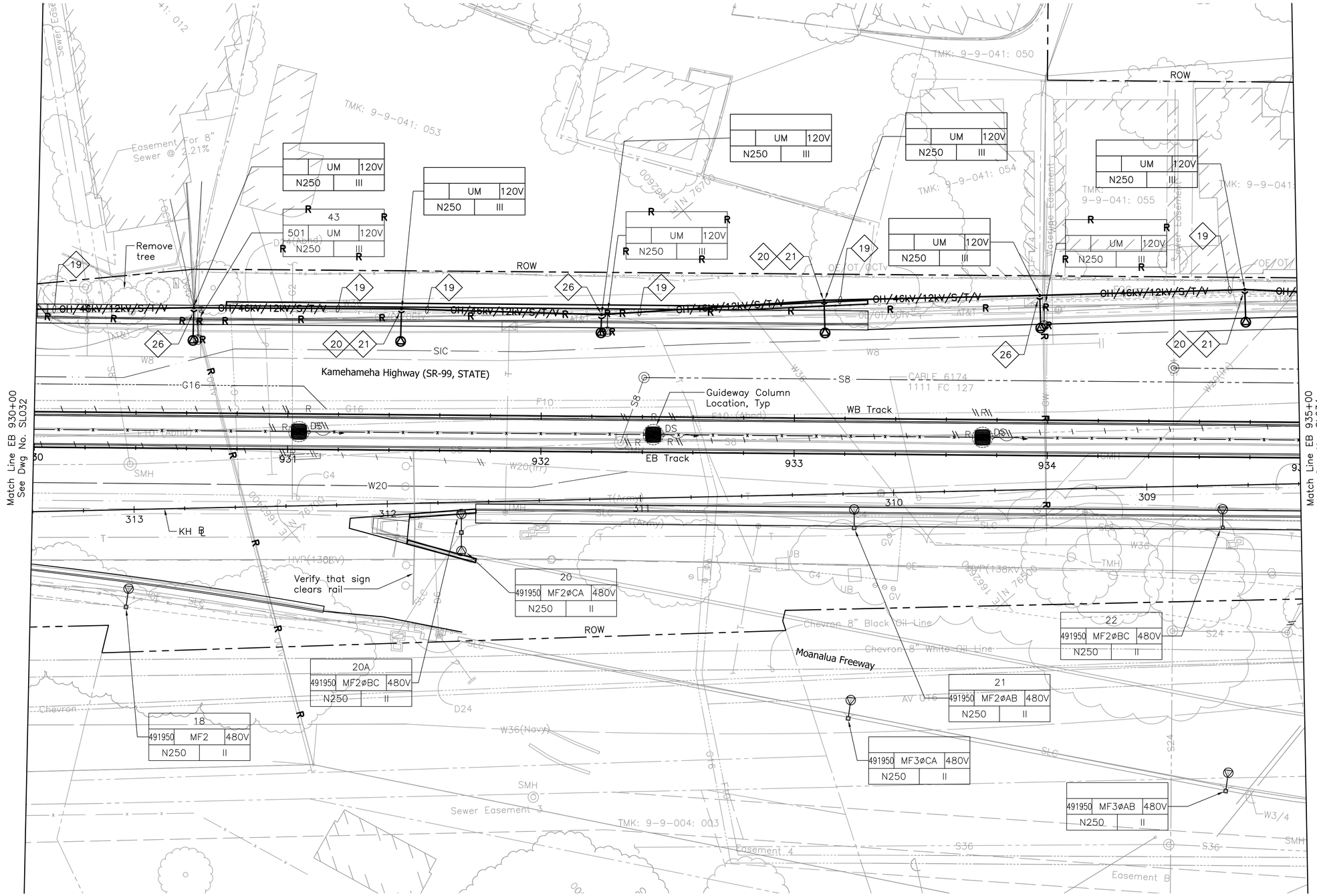
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 925+00 TO EB 930+00

Contract No.: DB-320
CADD File: KHDB-D04-SL032
Drawing No: SL032 Rev. A
Scale: 1"=20'
Page No. 165 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL032, 3/12/2010 5:22:32 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

26 Provide new highway lighting fixture on new joint steel pole provided by HECO. Unmetered final connection to HECO secondary system will be by HECO.

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

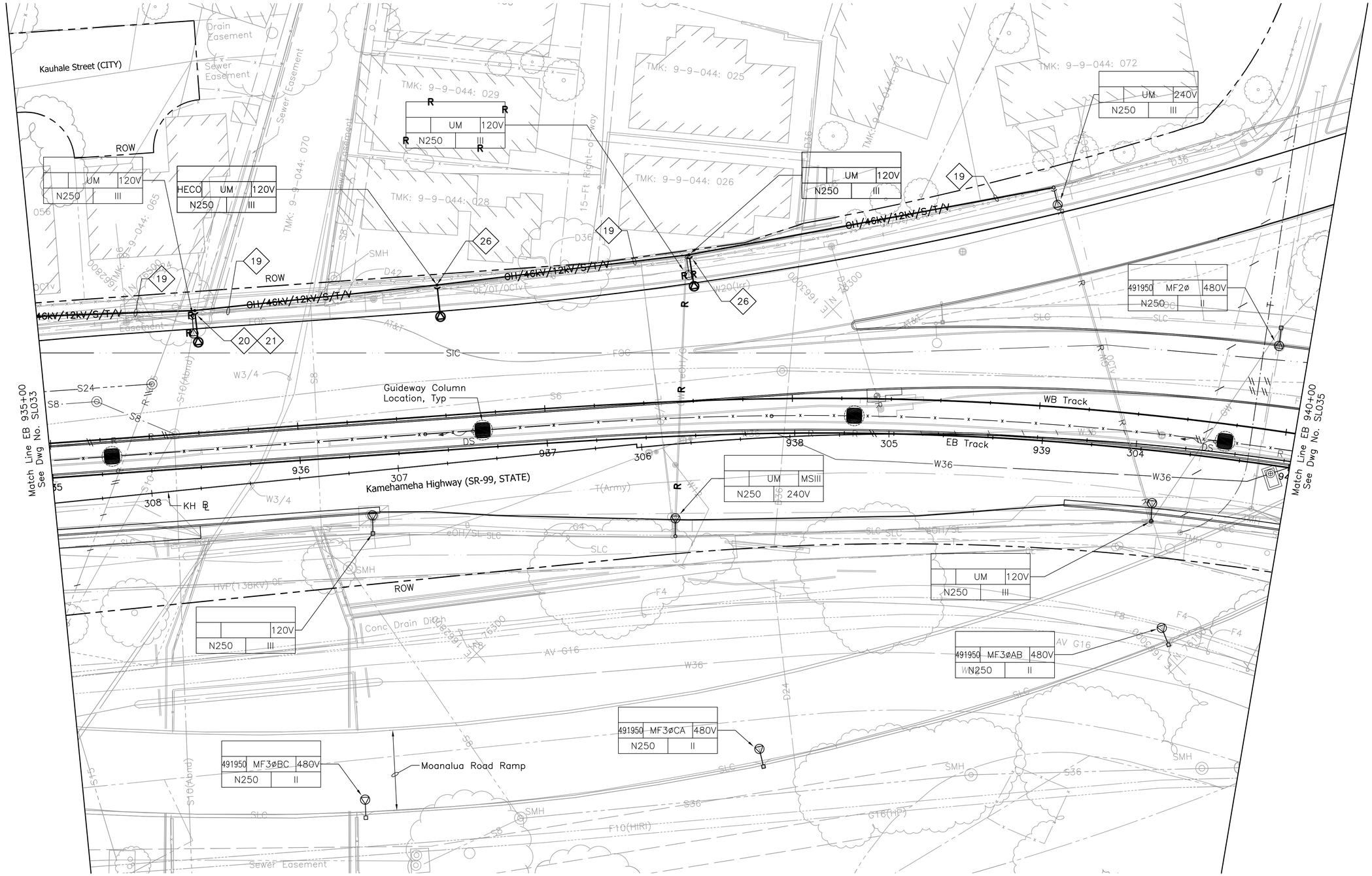
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 930+00 TO EB 935+00

Contract No.: DB-320
CADD File: KHDB-D04-SL033
Drawing No: SL033 Rev. A
Scale: 1"=20'
Page No. 166 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL033, 3/12/2010 5:23:22 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

19 Relocate cables from existing poles to new poles. Utility companies will be responsible for relocation of their own cables; contractor shall relocate street lighting or highway lighting cables.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

26 Provide new highway lighting fixture on new joint steel pole provided by HECO. Unmetered final connection to HECO secondary system will be by HECO.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

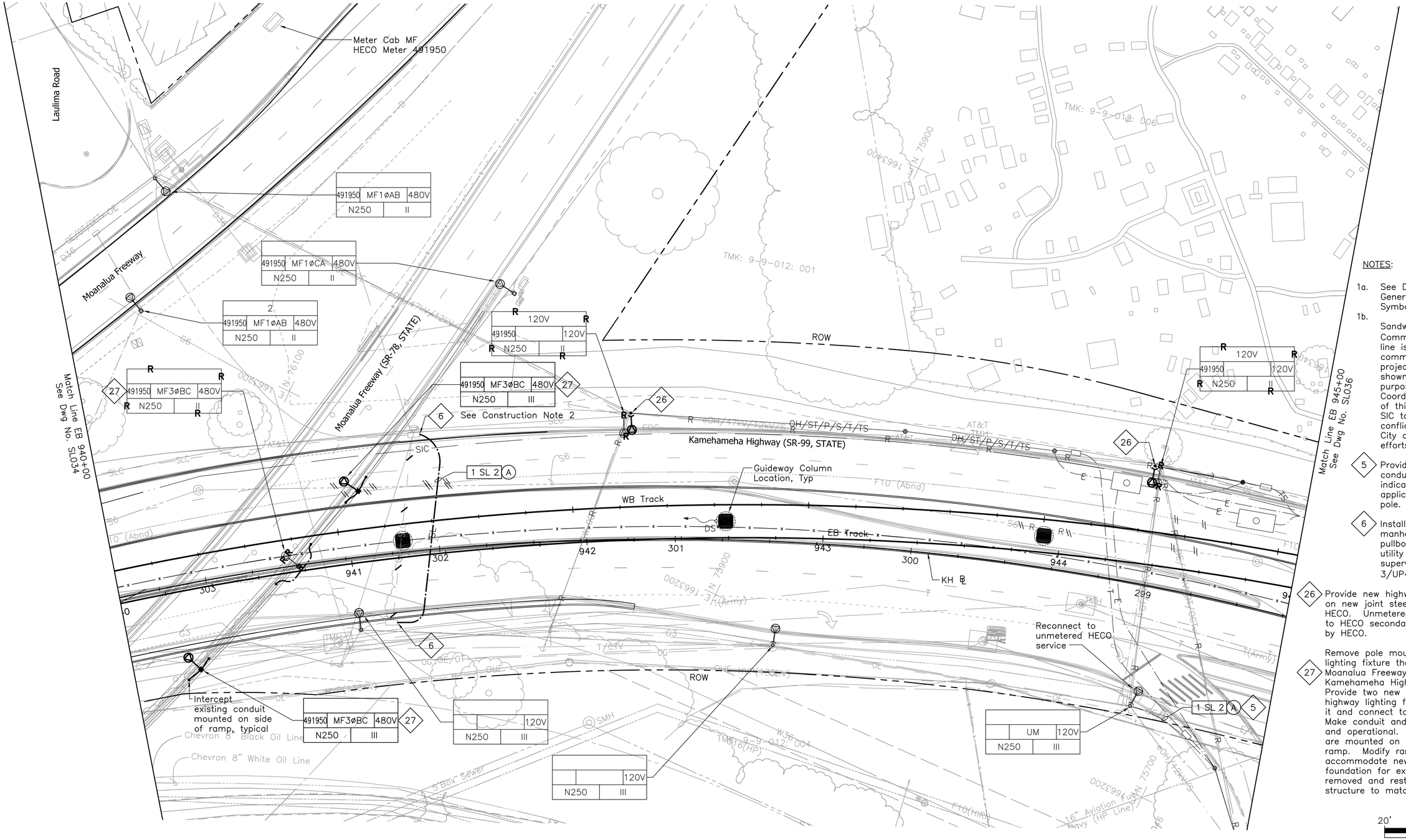
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN STREET LIGHTING

EB 935+00 TO EB 940+00

Contract No.: DB-320
CADD File: KHDB-D04-SL034
Drawing No: SL034 Rev. A
Scale: 1"=20'
Page No. 167 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL034, 3/12/2010 5:23:55 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

5 Provide pole riser conduits in complement indicated up to applicable location on pole.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

26 Provide new highway lighting fixture on new joint steel pole provided by HECO. Unmetered final connection to HECO secondary system will be by HECO.

27 Remove pole mounted highway lighting fixture that illuminates Moanalua Freeway on-ramp from Kamehameha Highway, eastbound. Provide two new pole mounted highway lighting fixtures to replace it and connect to existing circuit. Make conduit and wiring continuous and operational. Existing conduits are mounted on the side of the ramp. Modify ramp structure to accommodate new poles. Demolish foundation for existing pole that is removed and restore railing and structure to match adjacent area.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

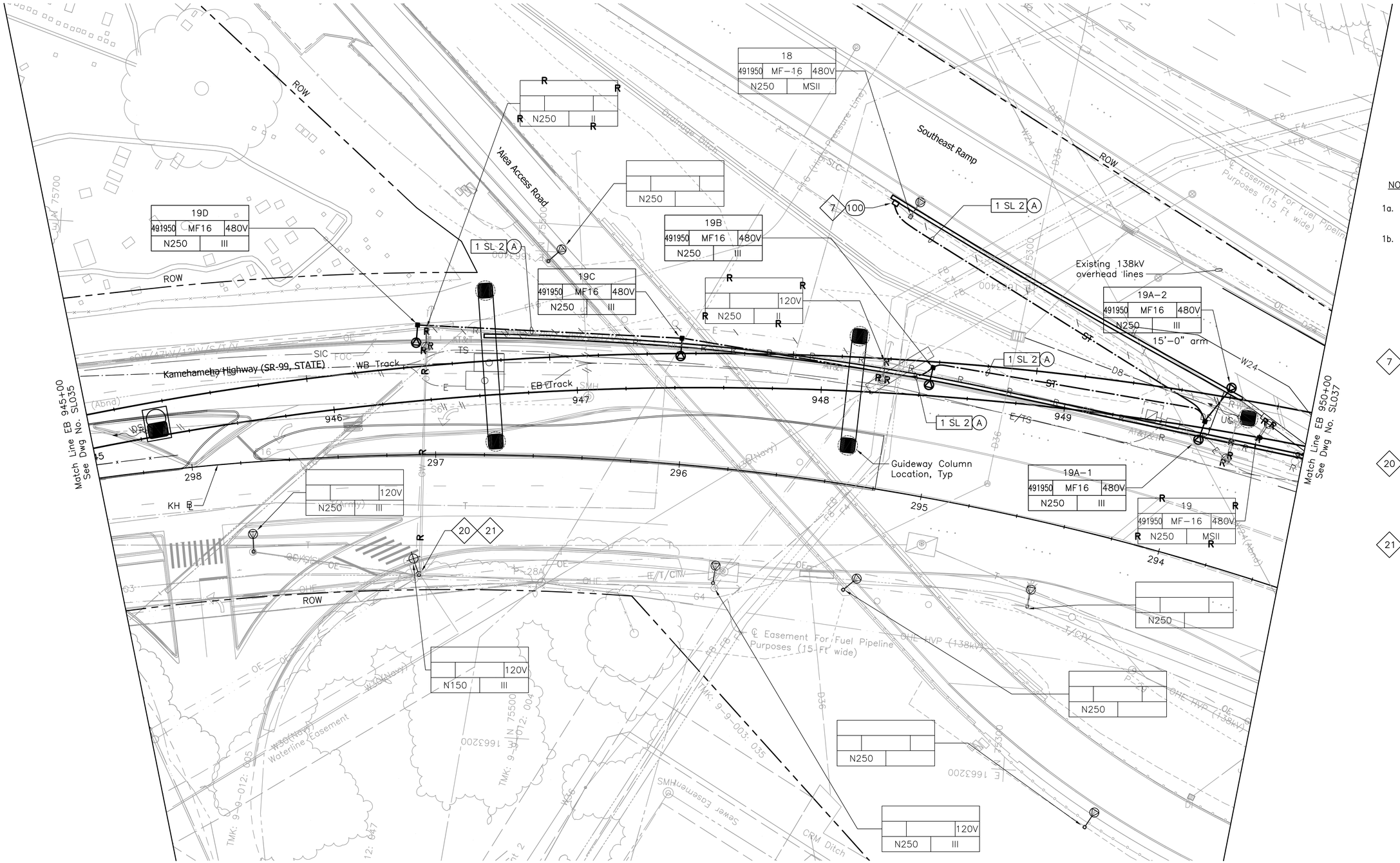
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION
STREET LIGHTING

EB 940+00 TO EB 945+00

Contract No.: DB-320
CADD File: KHDB-D04-SL035
Drawing No: SL035 Rev. A
Scale: 1"=20'
Page No. 168 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL035, 3/12/2010 5:24:33 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

7 Intercept existing duct line with new manhole, handhole, or pullbox as indicated. Demolish concrete jacket and duct within manhole, handhole, or pullbox as indicated and expose cables. Preserve cables during demolition of duct.

20 Provide new highway lighting fixture, related fastening hardware and mount on new metallic joint pole. Provide riser conduit where indicated, related wiring, and connect light fixture.

21 Provide new self-sustaining metallic joint pole. See Detail 1/UP408.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

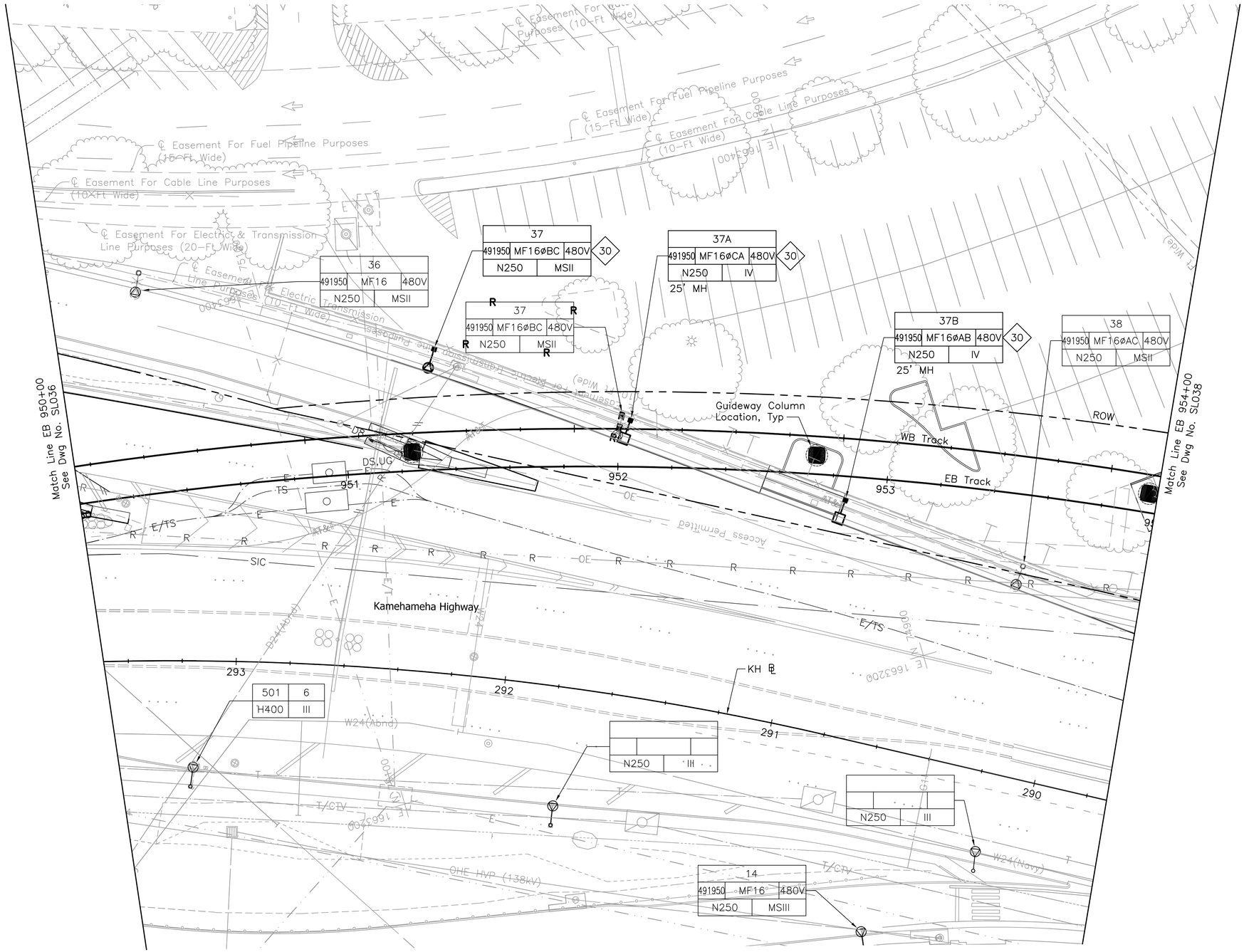
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION PLAN
STREET LIGHTING

EB 945+00 TO EB 950+00

Contract No.: DB-320
CADD File: KHDB-D04-SL036
Drawing No: SL036 Rev. A
Scale: 1"=20'
Page No. 169 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL036, 3/12/2010 5:25:13 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

30 Intercept existing ductline with new highway lighting fixture. Extend conduit into transformer base of new pole. Provide new 3#2, #6 ground to adjacent poles in both directions.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

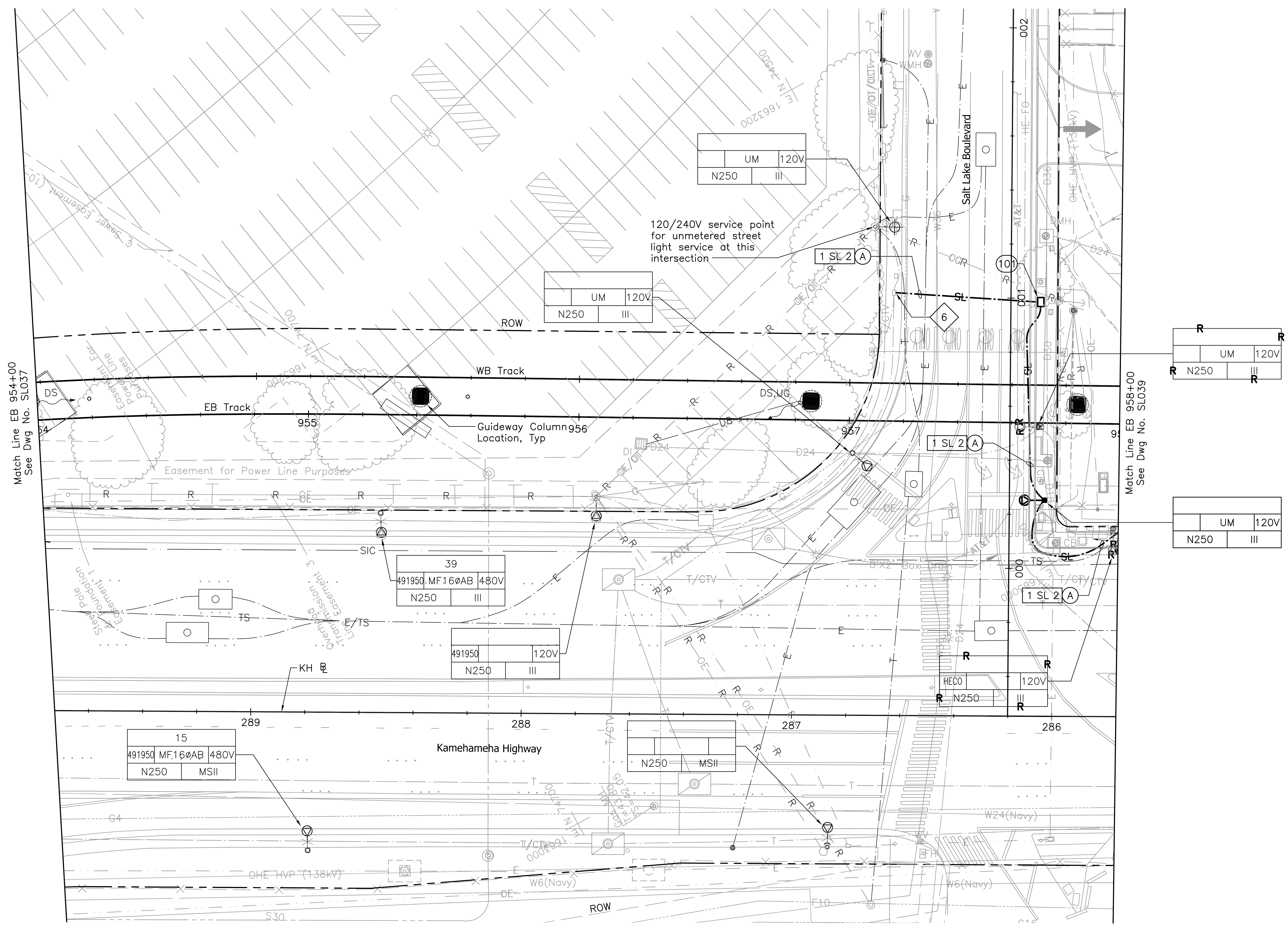
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION
STREET LIGHTING

EB 950+00 TO EB 954+00

Contract No.: DB–320
CADD File: KHDB–D04–SL037
Drawing No: SL037 Rev. A
Scale: 1"=20'
Page No. 170 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL037, 3/12/2010 5:25:48 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

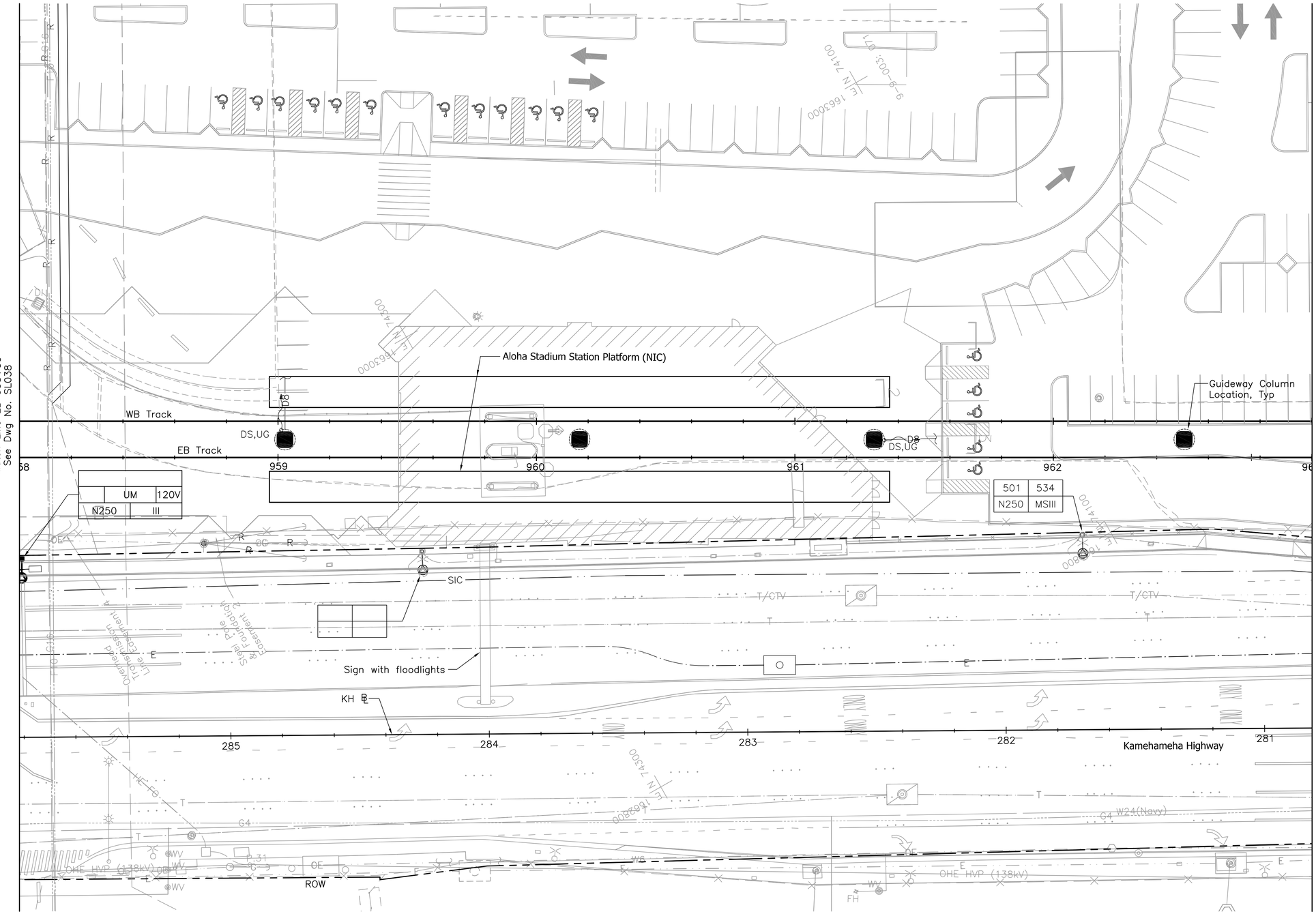
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION
STREET LIGHTING

EB 954+00 TO EB 958+00

Contract No.: DB-320
CADD File: KHDB-D04-SL038
Drawing No: SL038
Rev. A
Scale: 1"=20'

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL038, 3/12/2010 5:26:24 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

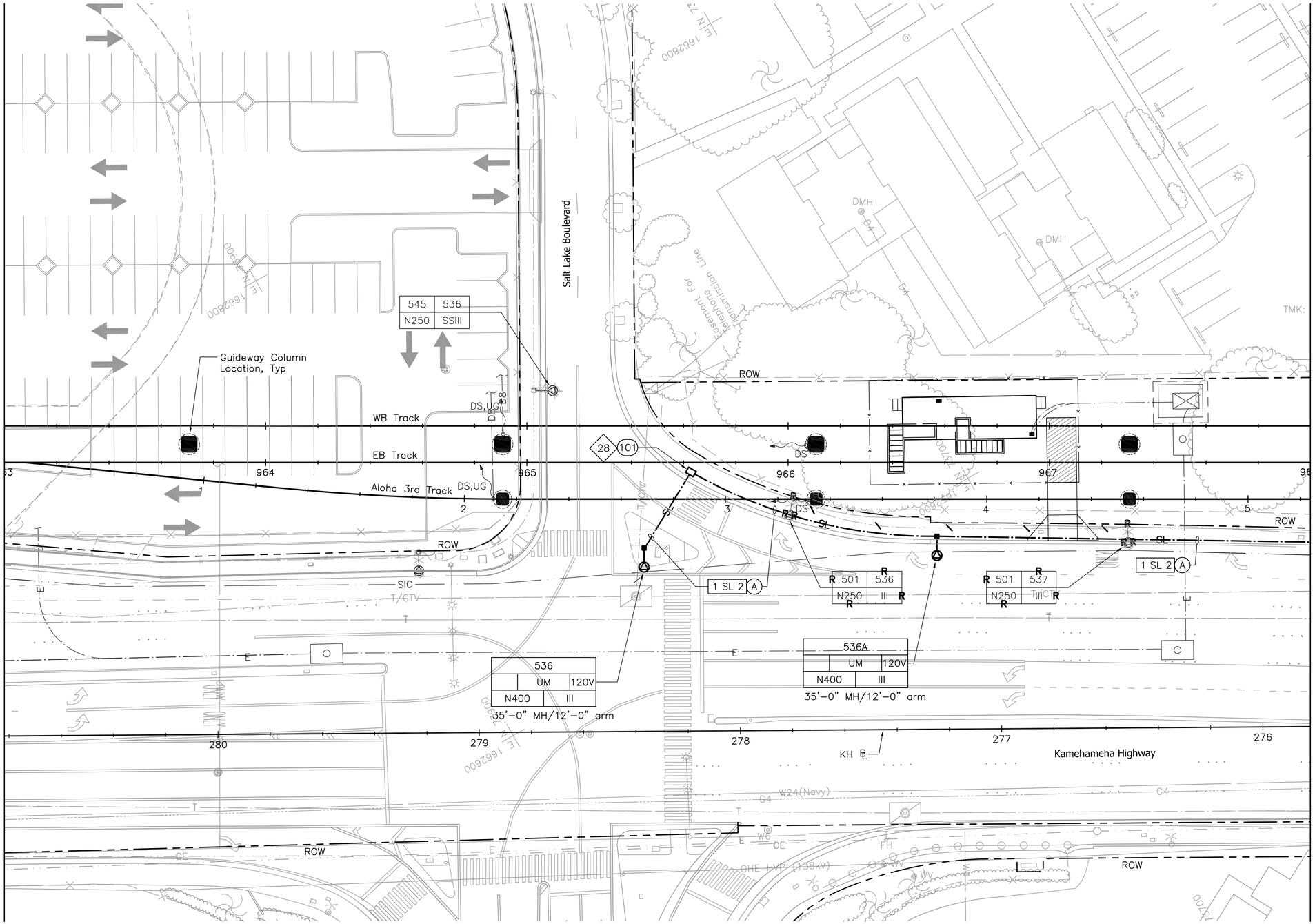
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION STREET LIGHTING

EB 958+00 TO EB 963+00

Contract No.: DB–320
CADD File: KHDB–D04–SL039
Drawing No: SL039
Rev. A
Scale: 1"=20'
Page No. 172 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL039, 3/12/2010 5:26:59 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

28 Intercept existing street lighting conduit with new pull box and conduit/s indicated. Provide new wiring to restore circuit continuity that existed. Wire size and quantity shall as a minimum match what existed. Provide an equipment grounding conductor with new current carrying conductors.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

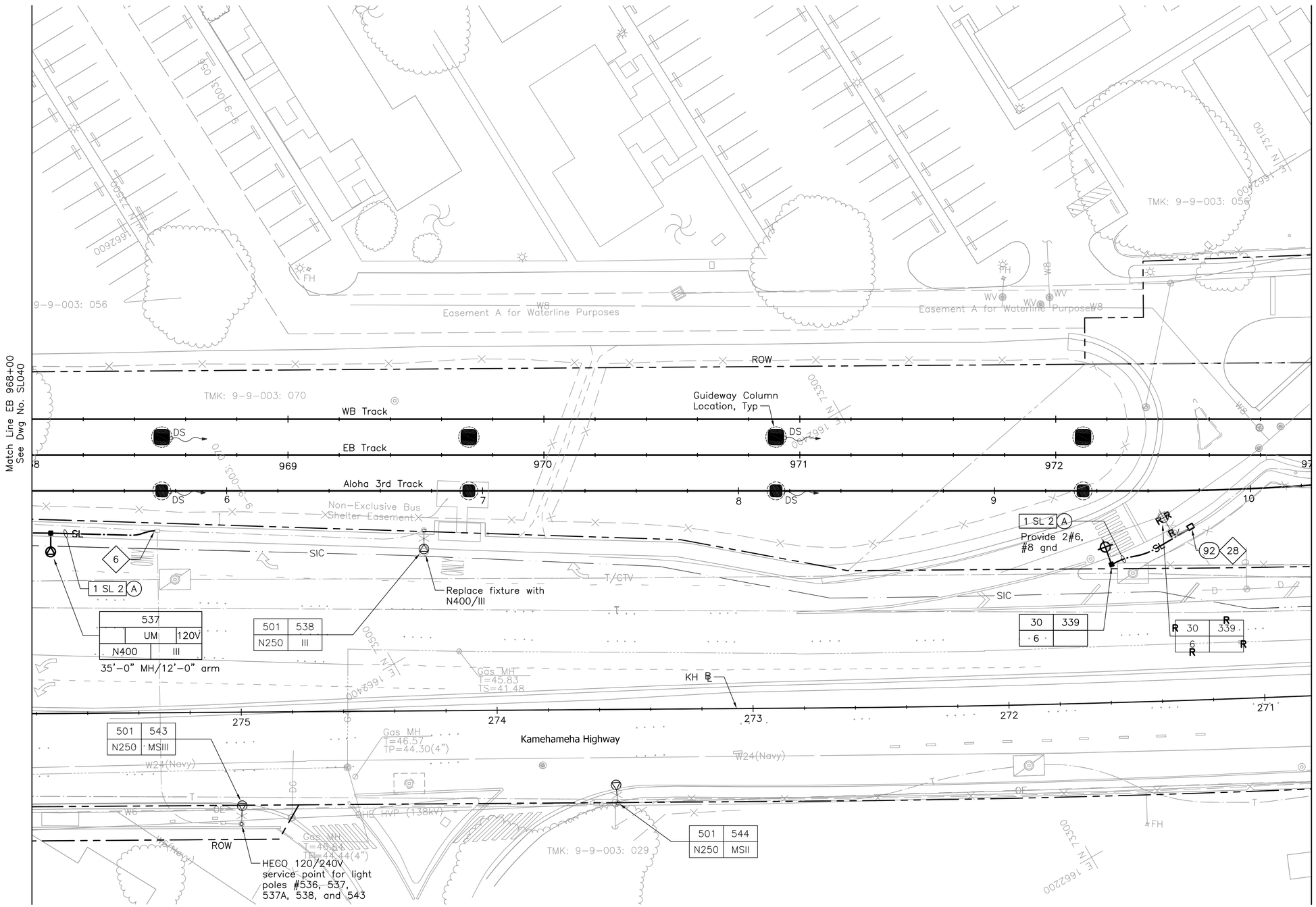
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION STREET LIGHTING

EB 963+00 TO EB 968+00

Contract No.: DB–320
CADD File: KHDB–D04–SL040
Drawing No: SL040
Rev. A
Scale: 1"=20'
Page No. 173 of 186

Q:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL040, 3/12/2010 5:27:40 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

6 Install conduits into manhole, handhole, or pullbox under applicable utility company supervision. See Detail 3/UP401.

28 Intercept existing street lighting conduit with new pull box and conduit/s indicated. Provide new wiring to restore circuit continuity that existed. Wire size and quantity shall as a minimum match what existed. Provide an equipment grounding conductor with new current carrying conductors.

Rev	By	Date	Description
A	PKU	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

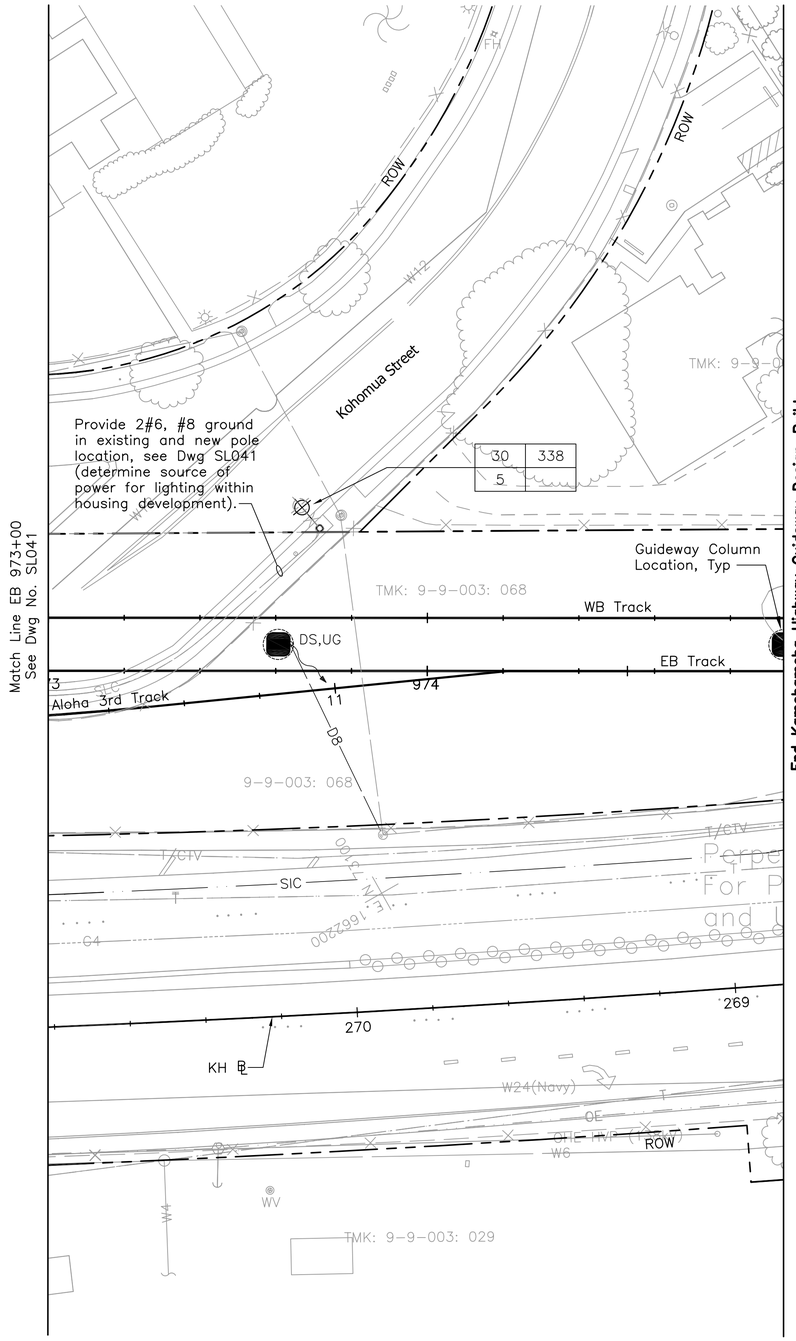
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION STREET LIGHTING

EB 968+00 TO EB 973+00

Contract No.: DB-320
CADD File: KHDB-D04-SL041
Drawing No: SL041 Rev. A
Scale: 1"=20'
Page No. 174 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL041, 3/12/2010 5:28:15 PM, deyn, 1:1



NOTES:

1a. See Dwg No. UG007 for General Notes and Symbols.

1b. Sandwich Isles Communications (SIC) line is a proposed future communication utility project by others and shown for informational purposes only. Coordinate the location of this future line with SIC to avoid potential conflicts. Inform the City of all coordination efforts.

20' 0' 20'

Rev	By	Date	Description
A	PKU	03–19–10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: R Katahara
Drawn: D Saito
Checked: P Uyeda
Approved: P Uyeda
Date: 03–19–10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant: MKengineers
286 Kalihi Street
Honolulu, Hawaii 96819
Phone: (808) 848-8622
Fax: (808) 848-5574
E-Mail: info@mkhawaii.com

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

UTILITY RELOCATION
STREET LIGHTING

EB 973+00 TO END

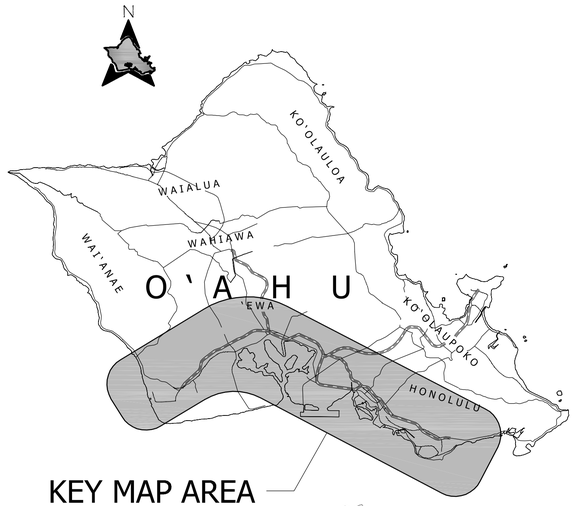
Contract No.: DB–320
CADD File: KHDB–D04–SL042
Drawing No: SL042 Rev. A
Scale: 1"=20'
Page No. 175 of 186

C:\Documents and Settings\deyn\Desktop\207081.002-HHCTCP_Seg-D\dwg\KHDB-D04-SL003-SL042.dwg, KHDB-D04-SL042, 3/12/2010 5:29:00 PM, deyn, 1:1

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

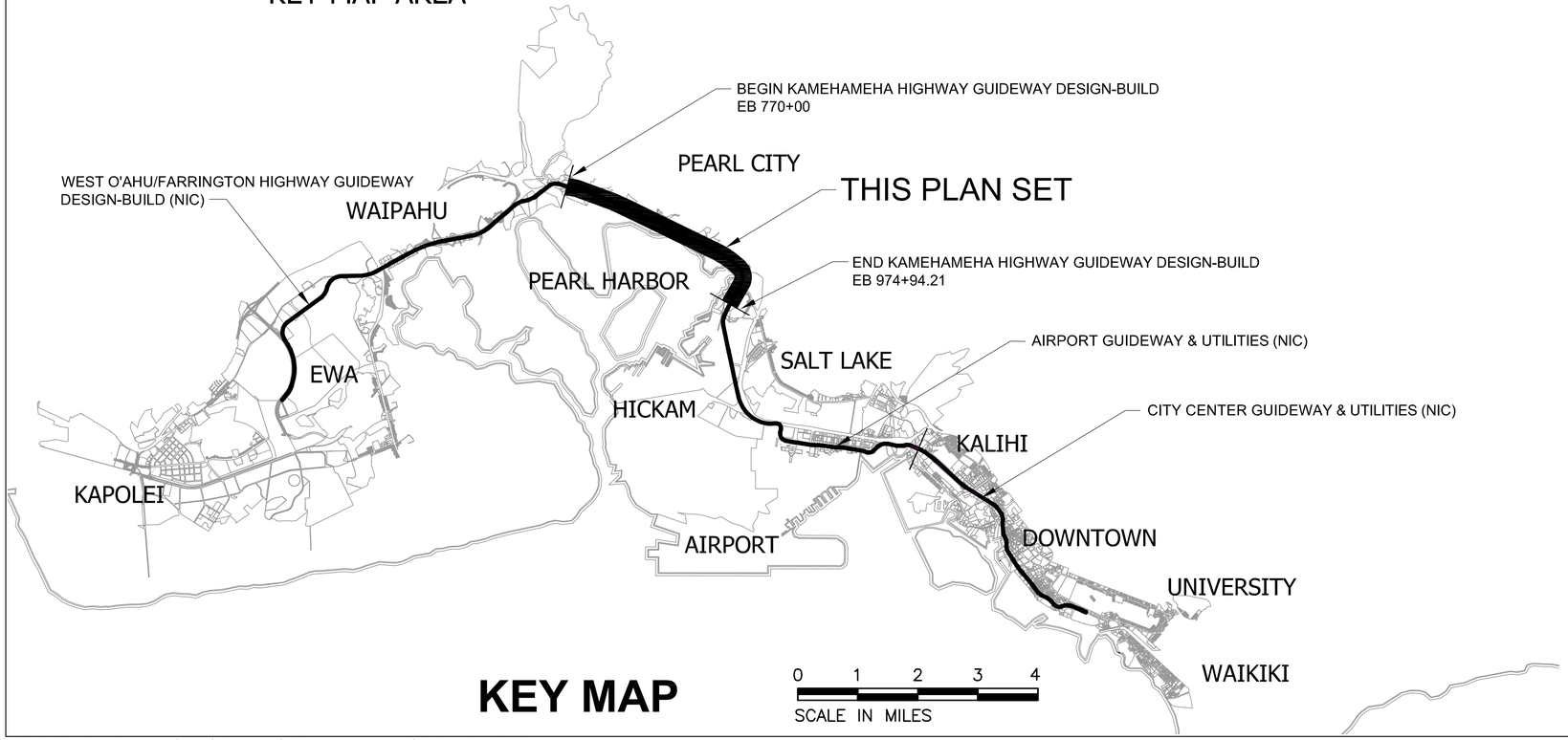
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

VOLUME 3 - STRUCTURES, LANDSCAPING & TRACTION POWER

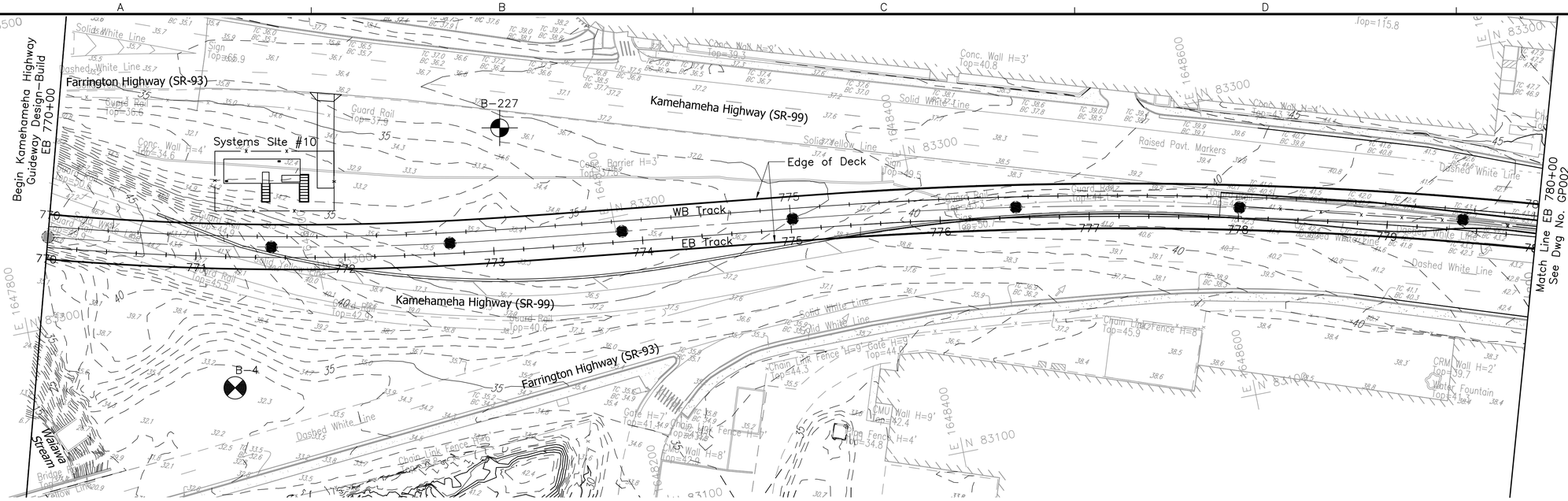


City and County of Honolulu
Department of Transportation Services

Rapid Transit Division

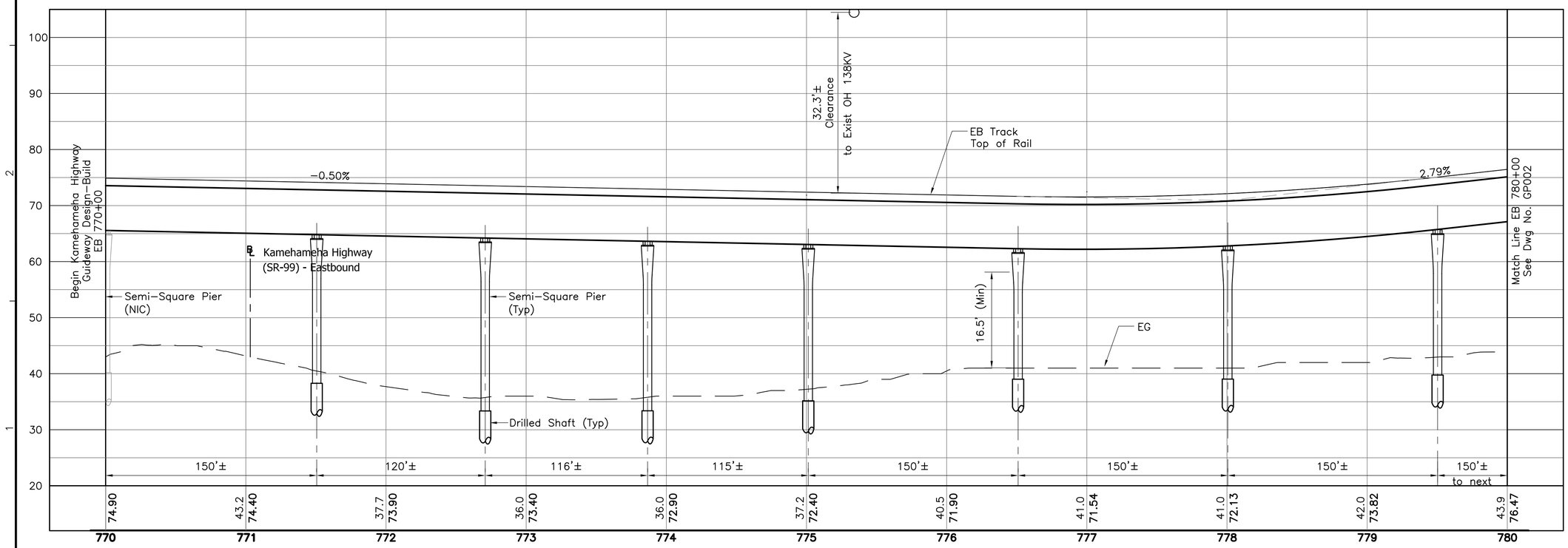


KEY MAP



NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.



40' 0 40'

10' 0 10'

Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

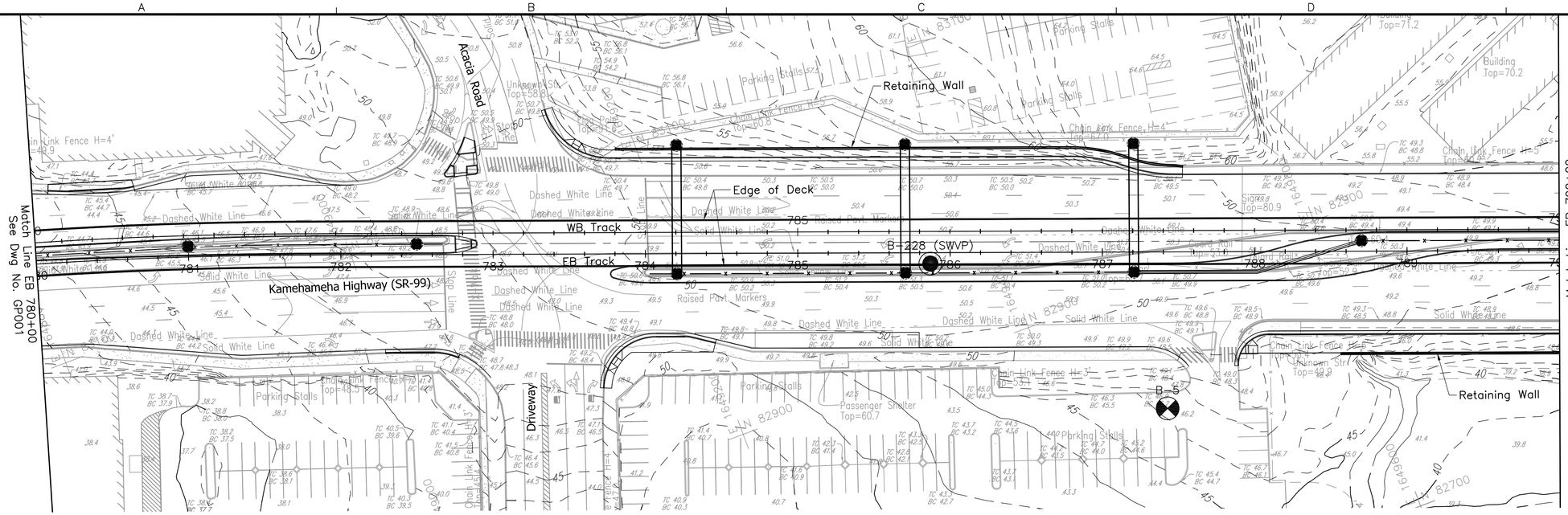
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

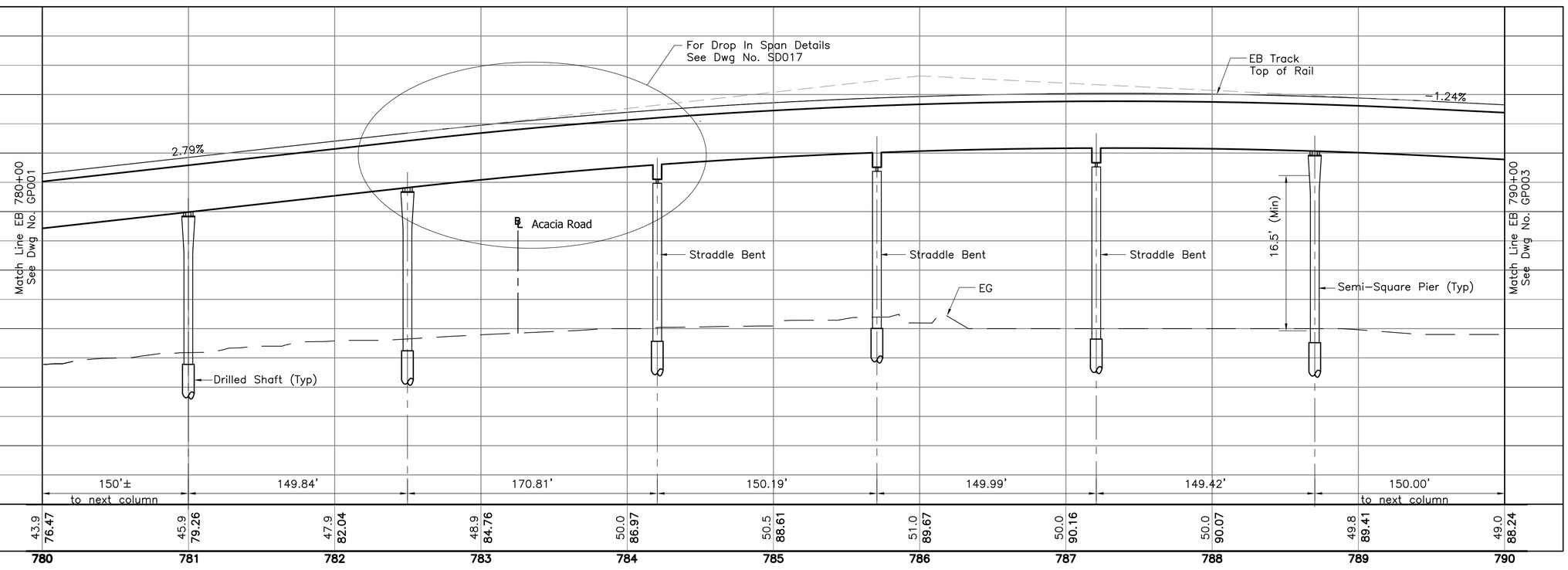
STRUCTURAL
PLAN AND PROFILE

EB 770+00 TO EB 780+00

Contract No.: DB-320
CADD File: KHDB-G04-GP001
Drawing No: GP001 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 21 of 123

2010-03-12 2:00 PM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

40' 0 40'

10' 0 10'

Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 - Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

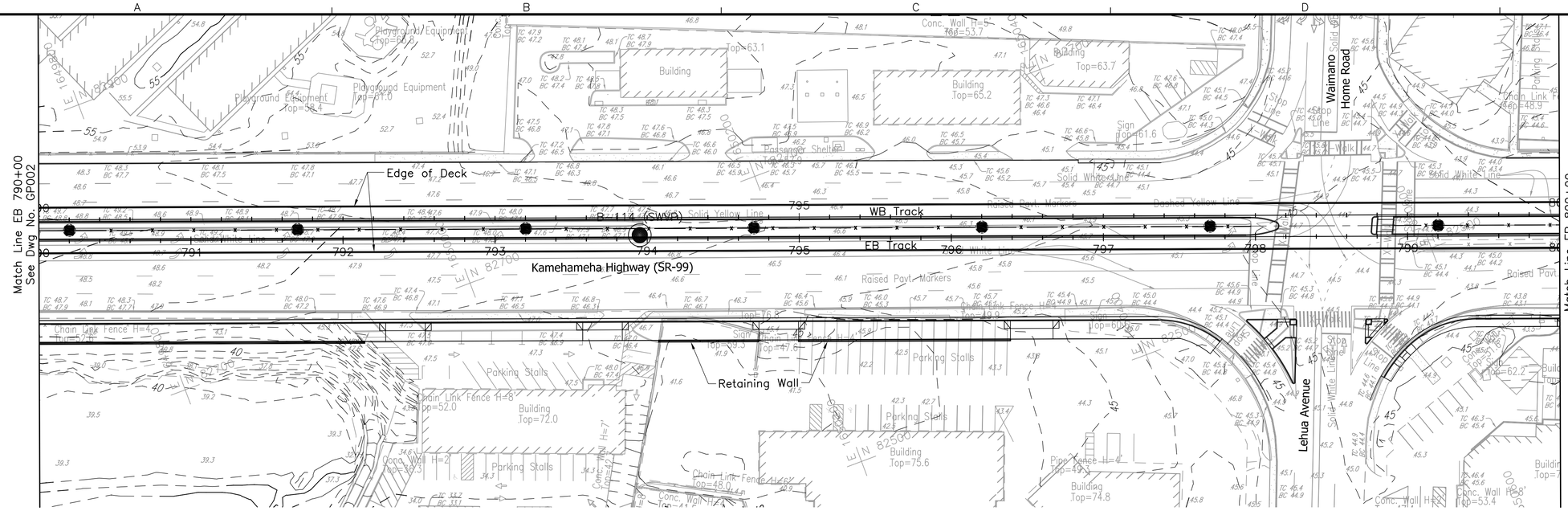
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

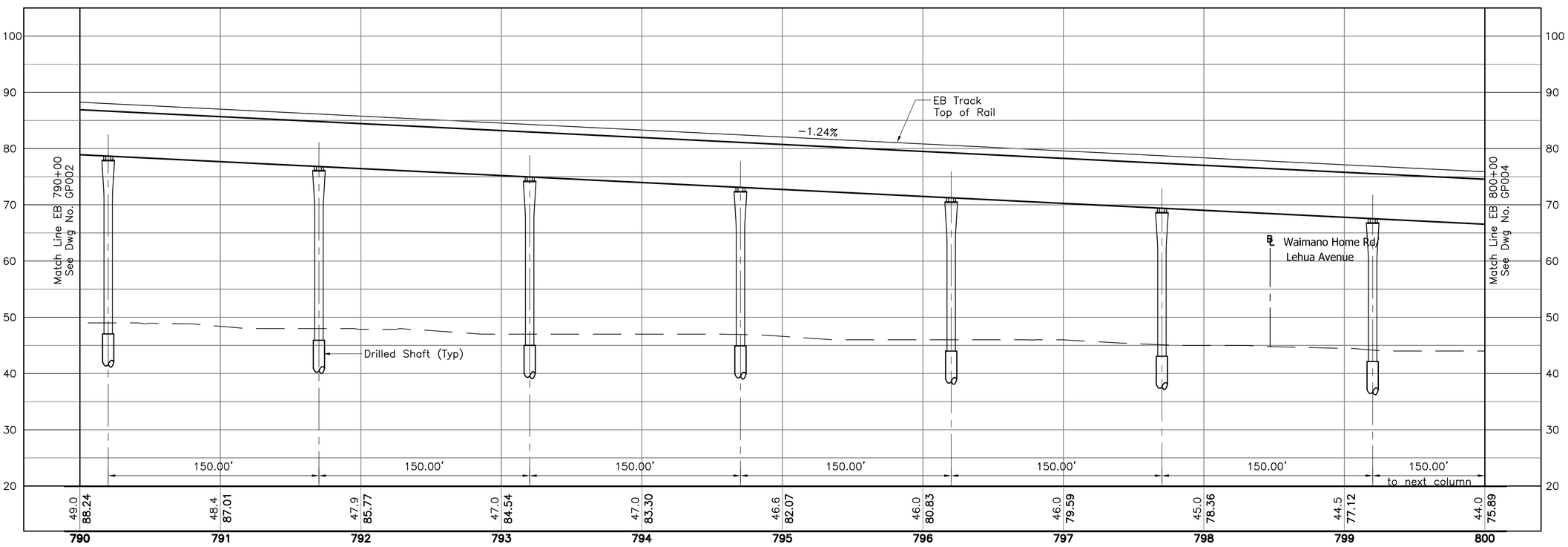
STRUCTURAL
PLAN AND PROFILE

EB 780+00 TO EB 790+00

Contract No.: DB-320
CADD File: KHDB-G04-GP002
Drawing No: GP002 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 22 of 123

2010-03-11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

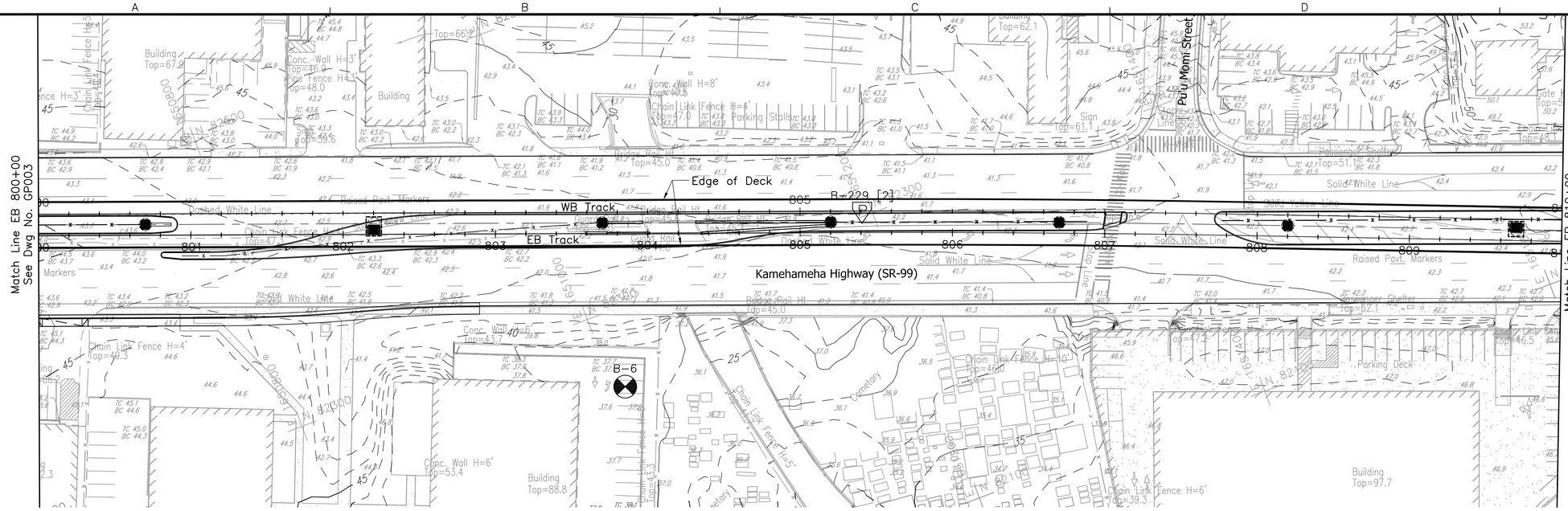
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

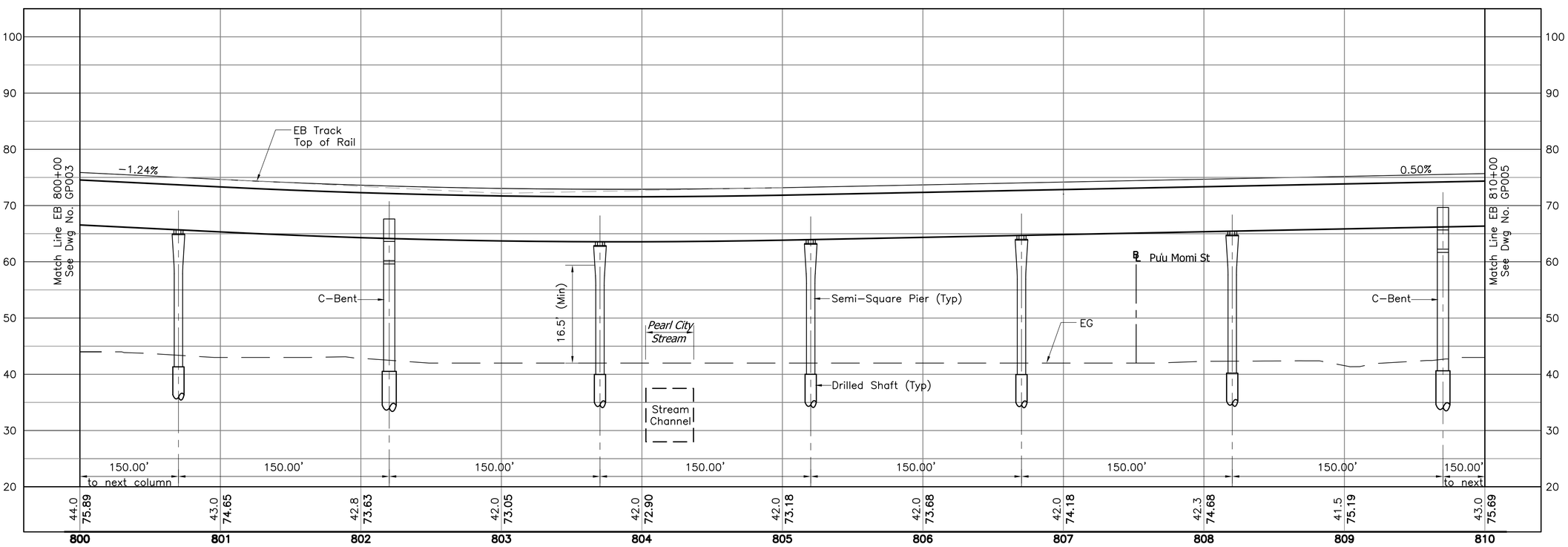
STRUCTURAL
PLAN AND PROFILE

EB 790+00 TO EB 800+00

Contract No.: DB-320
CADD File: KHDB-G04-GP003
Drawing No: GP003 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 23 of 123

2010-03-11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 - Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

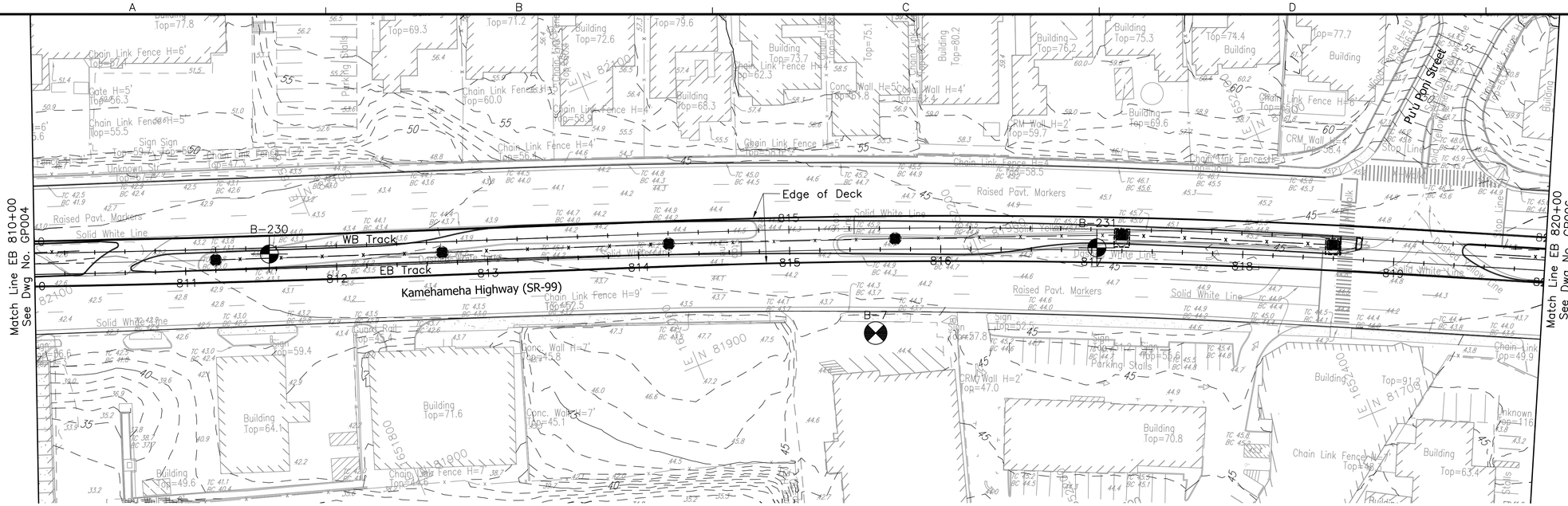
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

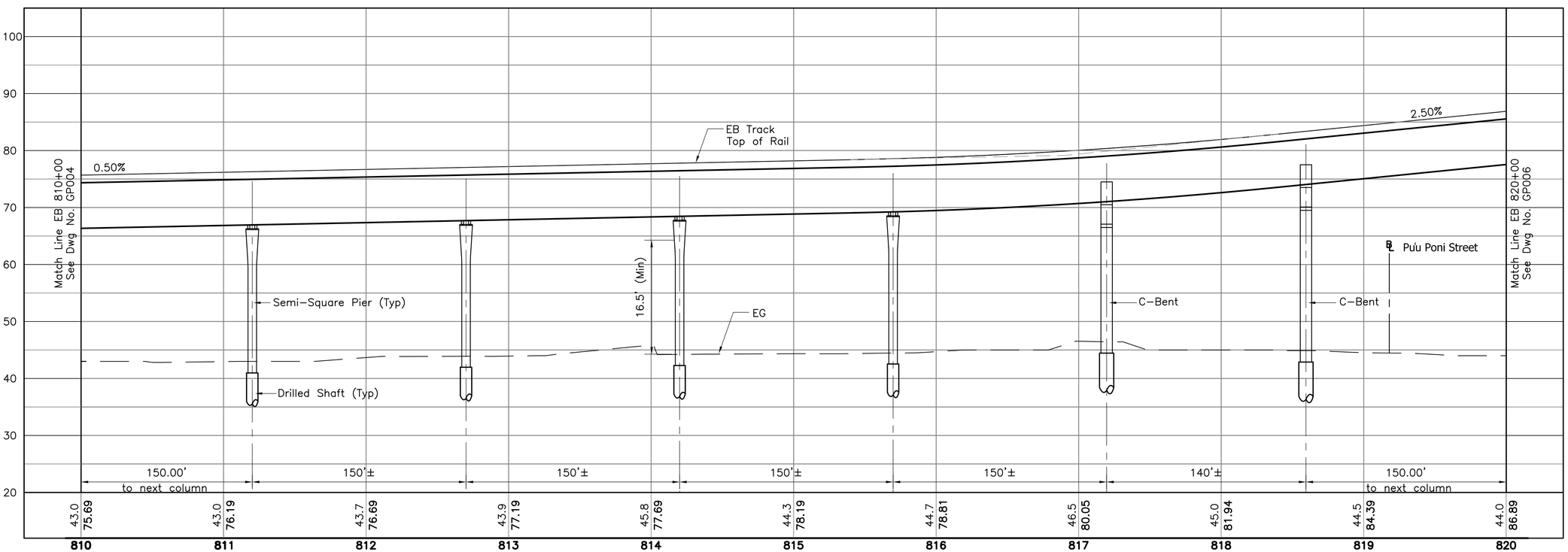
STRUCTURAL PLAN AND PROFILE

EB 800+00 TO EB 810+00

Contract No.: DB-320
CADD File: KHDB-G04-GP004
Drawing No: GP004 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 24 of 123

2010-03-11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

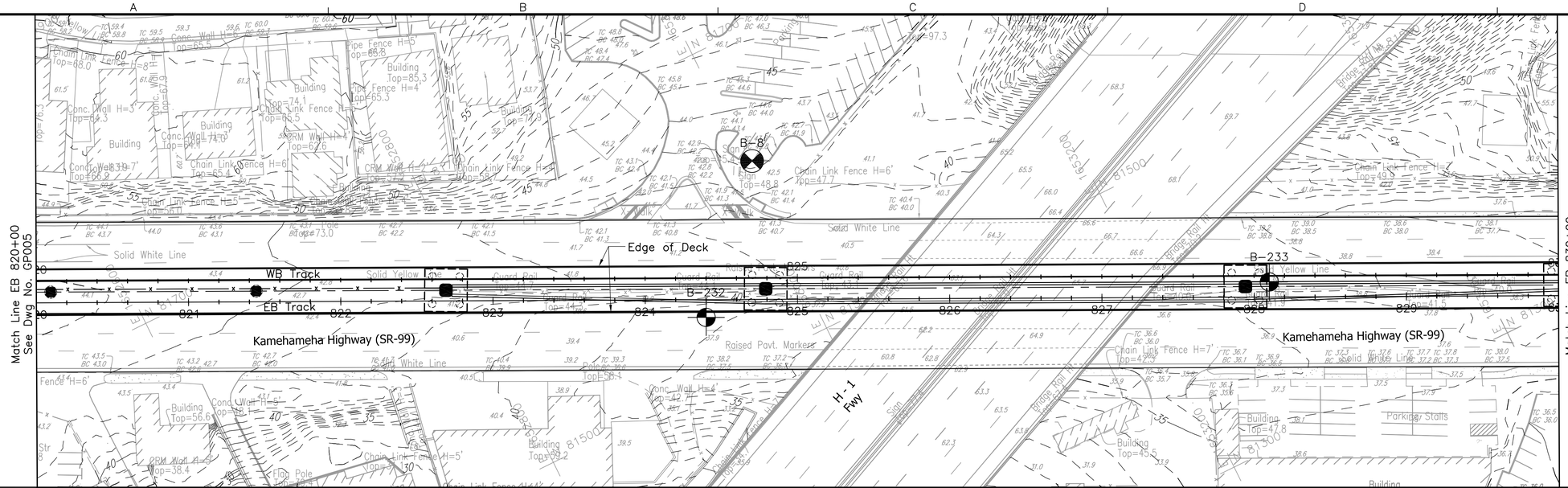
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

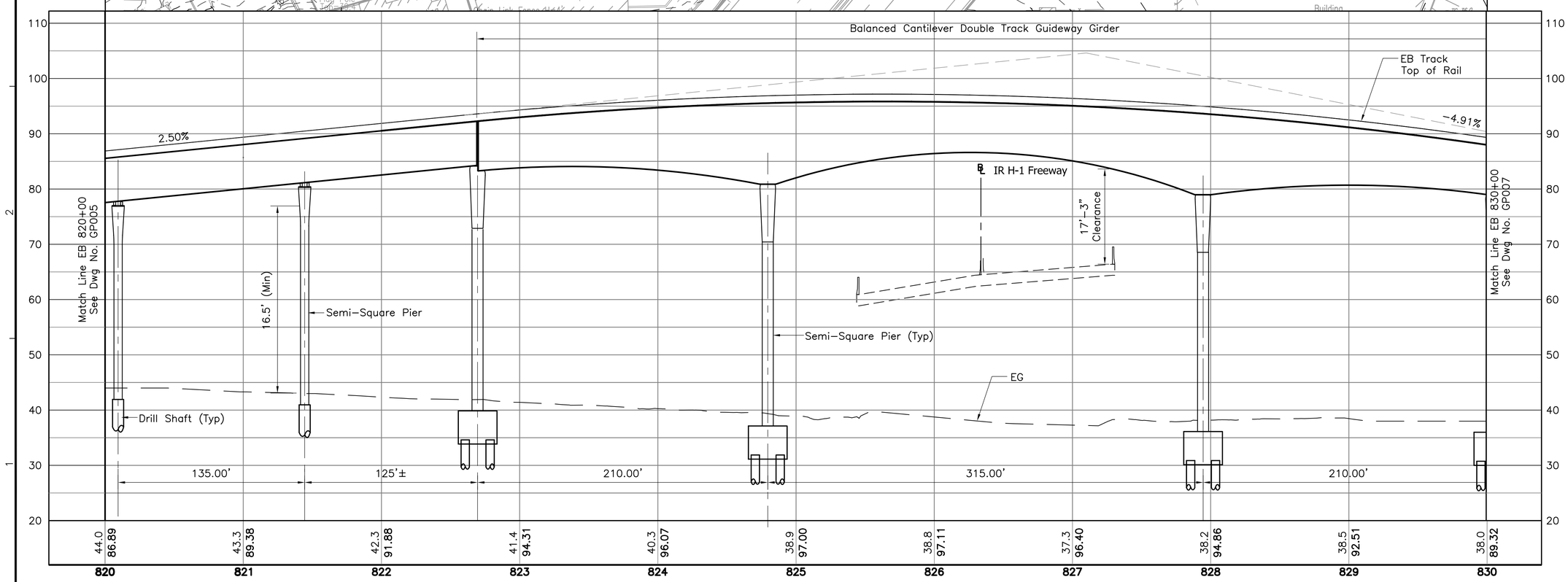
STRUCTURAL
PLAN AND PROFILE

EB 810+00 TO EB 820+00

Contract No.: DB-320
CADD File: KHDB-G04-GP005
Drawing No: GP005 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 25 of 123

2010-03-11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.
5. Vertical clearances shown over elevated roadways are given along the eastbound track centerline only. The location of the minimum vertical clearance depends on the roadway and guideway slopes and superelevations. Actual minimum vertical clearances shall be calculated by the final designer.

40' 0 40'

10' 0 10'

Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

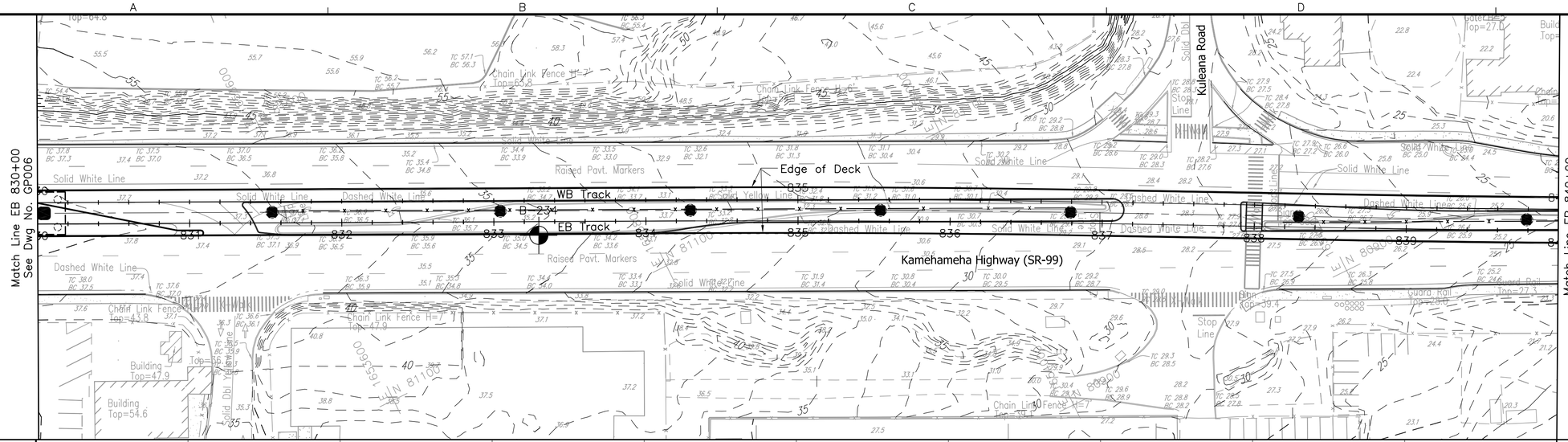
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

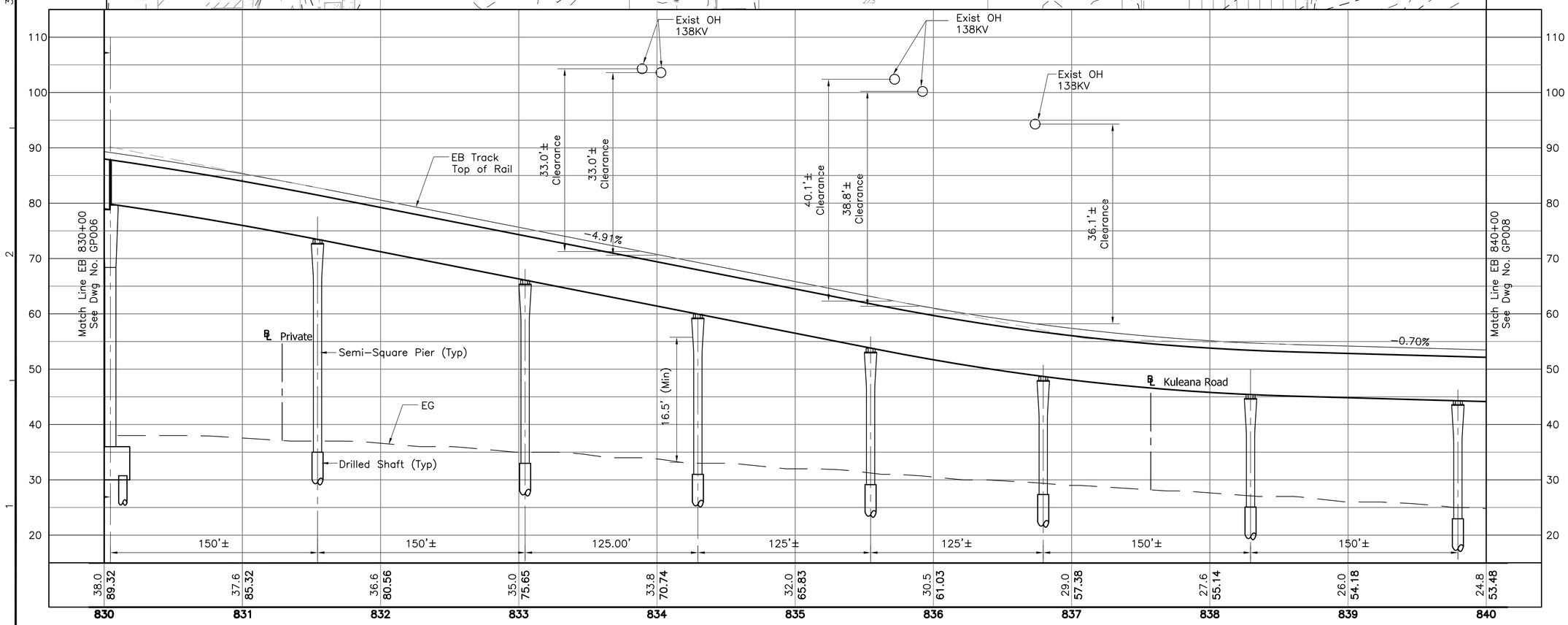
STRUCTURAL
PLAN AND PROFILE

EB 820+00 TO EB 830+00

Contract No.: DB-320
CADD File: KHDB-G04-GP006
Drawing No: GP006 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 26 of 123

2010-03-11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

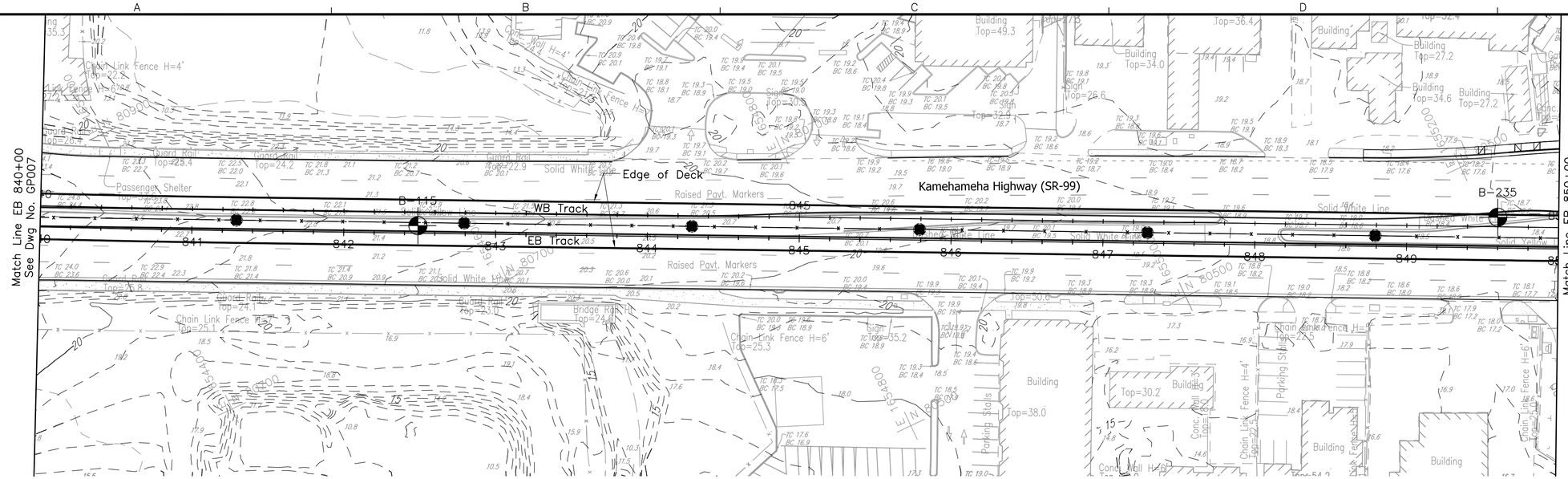
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

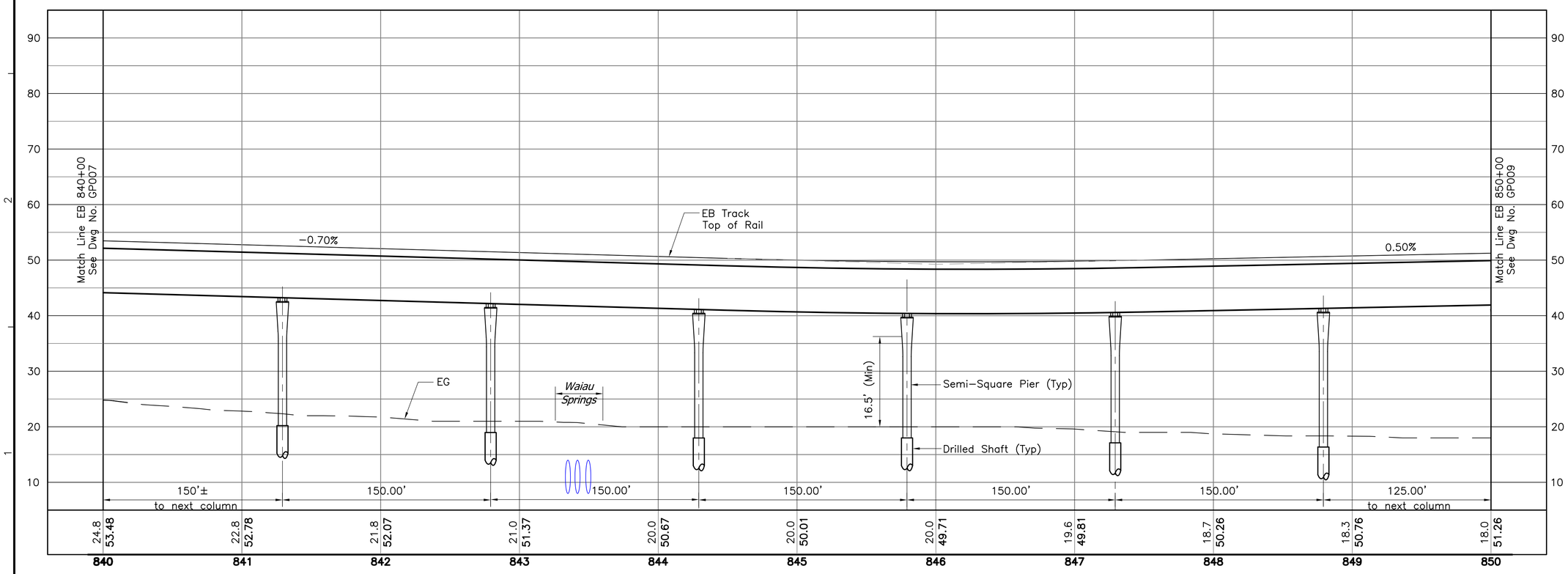
STRUCTURAL
PLAN AND PROFILE

EB 830+00 TO EB 840+00

Contract No.: DB-320
CADD File: KHDB-G04-GP007
Drawing No: GP007 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 27 of 123

2010-03-11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi−square columns, if used, shall not be less than 6−foot by 6−foot, and the associated drilled shafts shall not be less than 8−foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

40' 0 40'

10' 0 10'

Rev	By	Date	Description
A	AB	03−19−10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03−19−10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 − Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

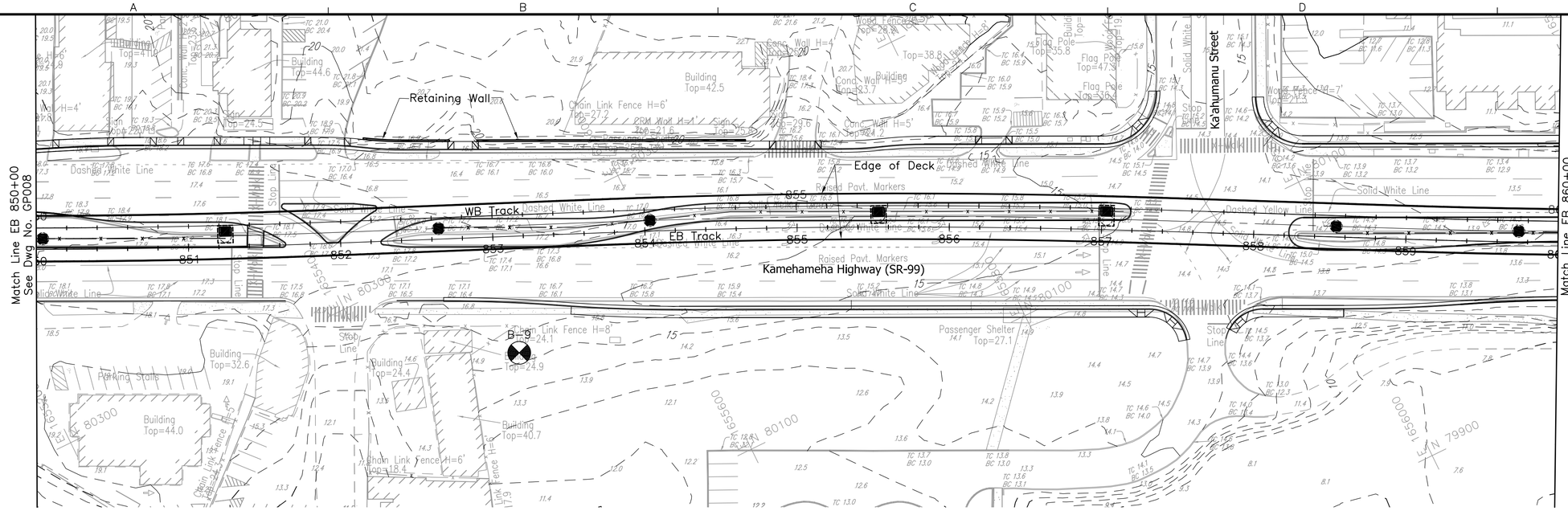
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

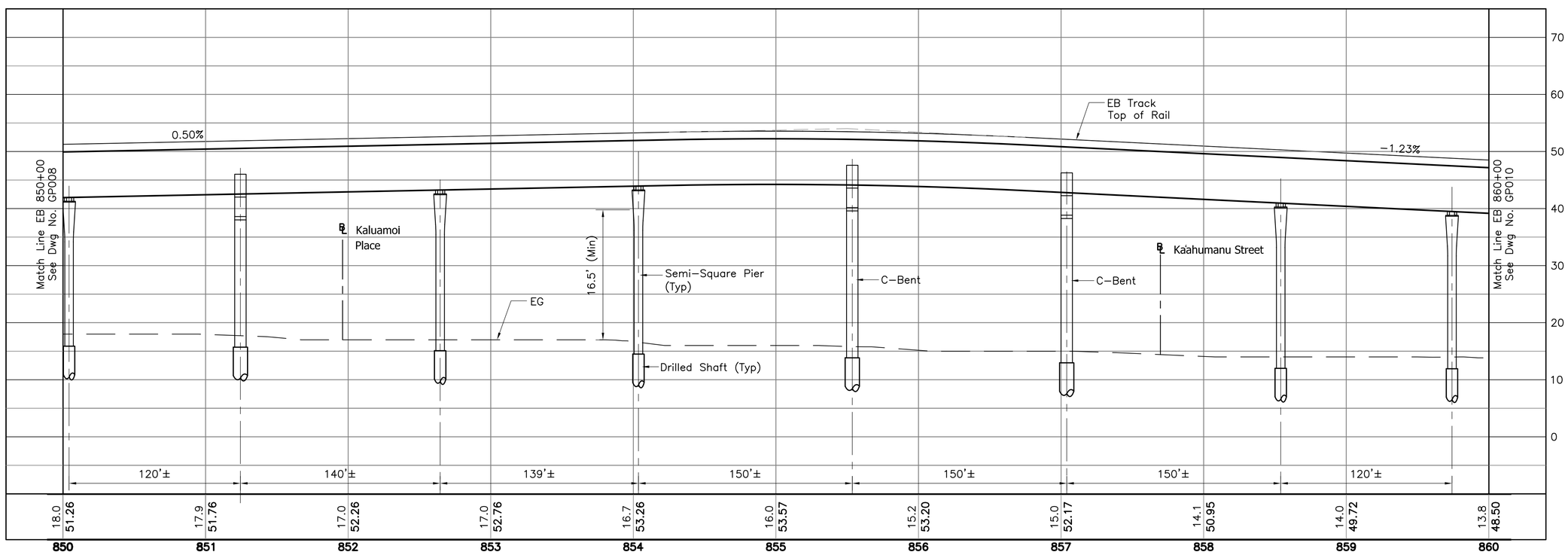
STRUCTURAL
PLAN AND PROFILE

EB 840+00 TO EB 850+00

Contract No.: DB−320
CADD File: KHDB−G04−GP008
Drawing No: GP008
Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 28 of 123

2010−03−11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB−G04−GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

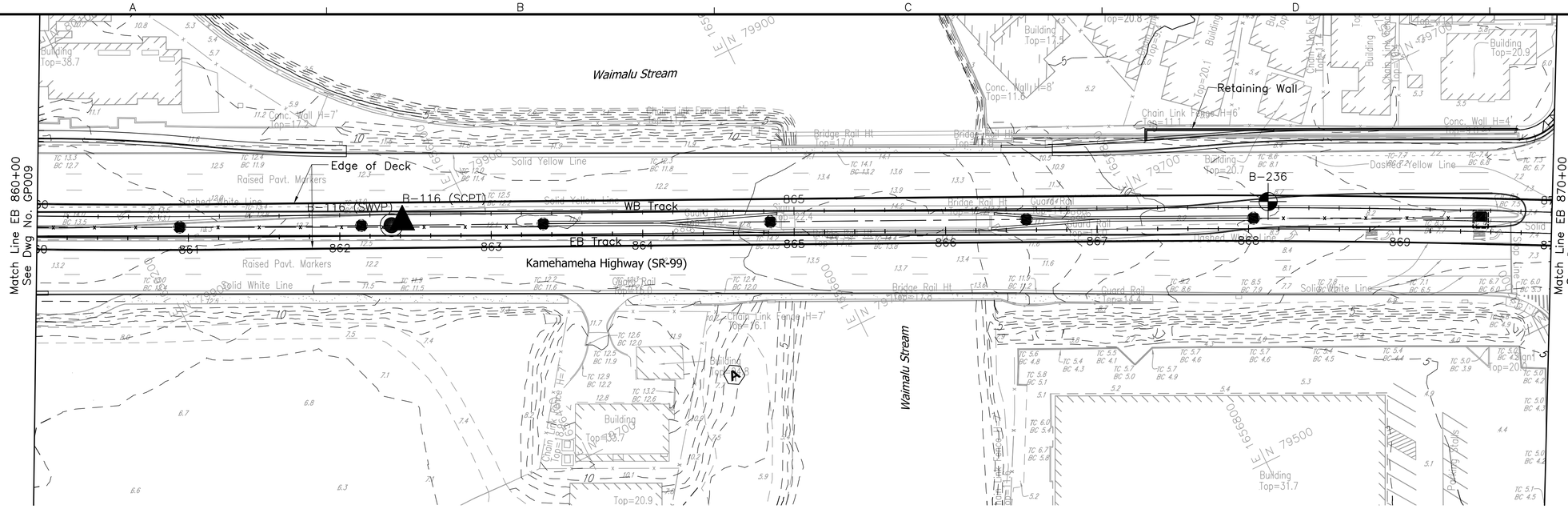
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

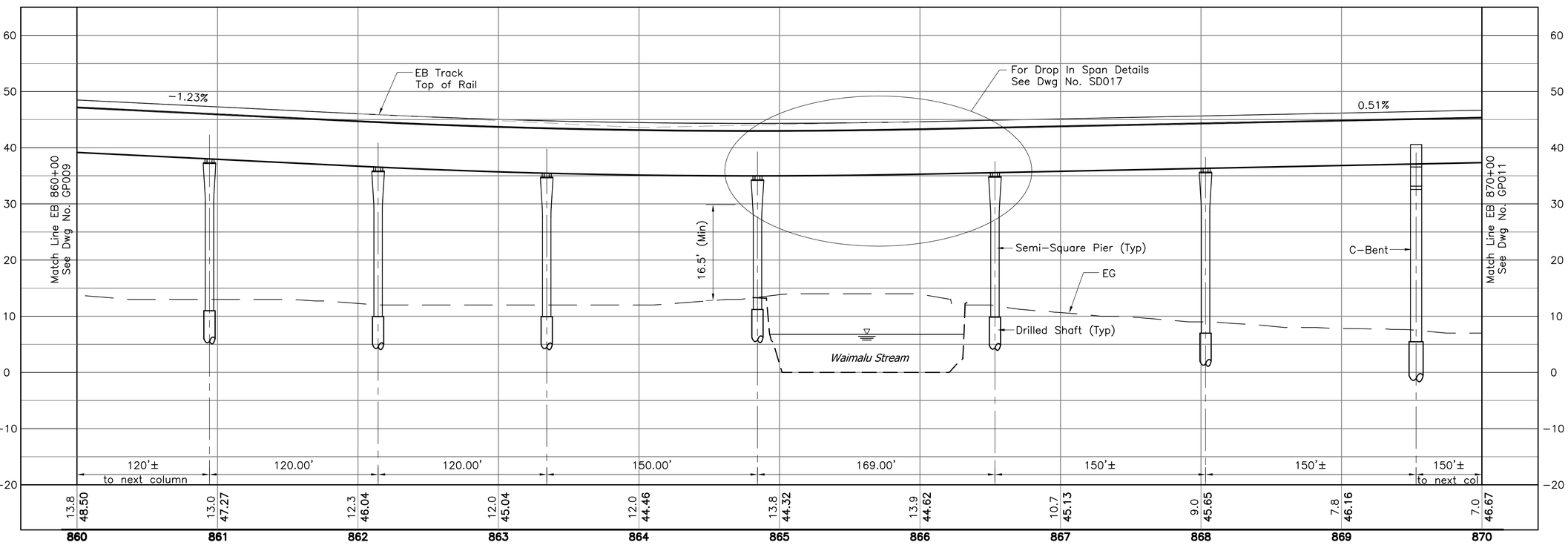
STRUCTURAL
PLAN AND PROFILE

EB 850+00 TO EB 860+00

Contract No.: DB-320
CADD File: KHDB-G04-GP009
Drawing No: GP009 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 29 of 123

2010-03-11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 - Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

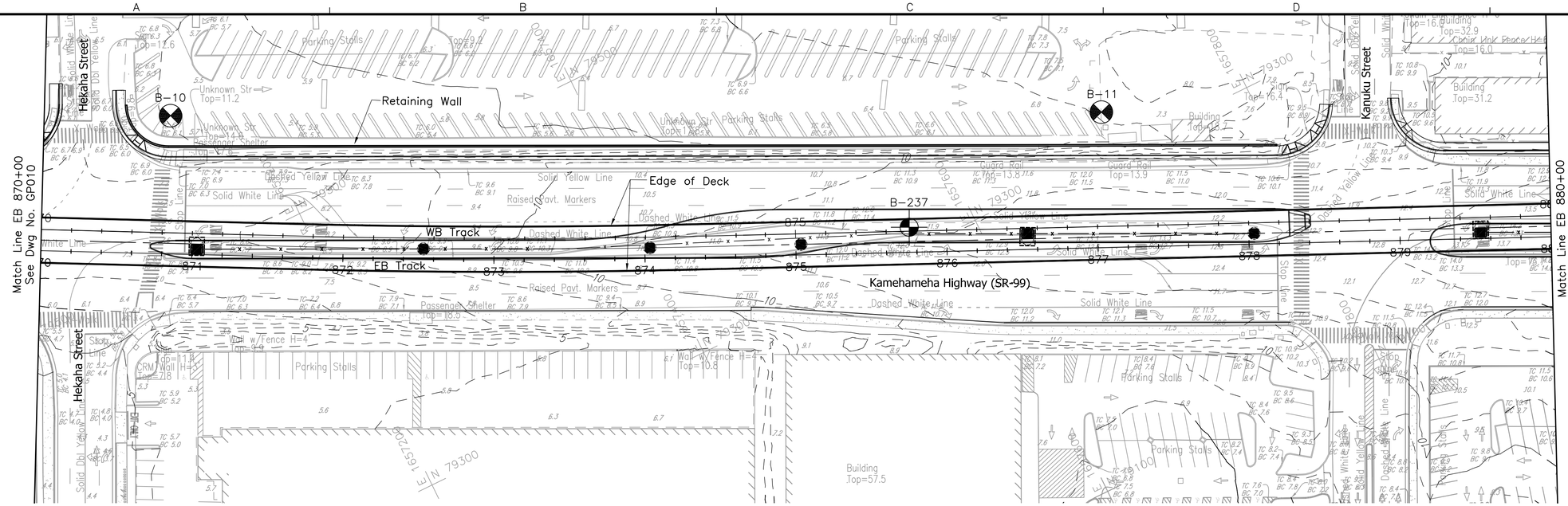
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

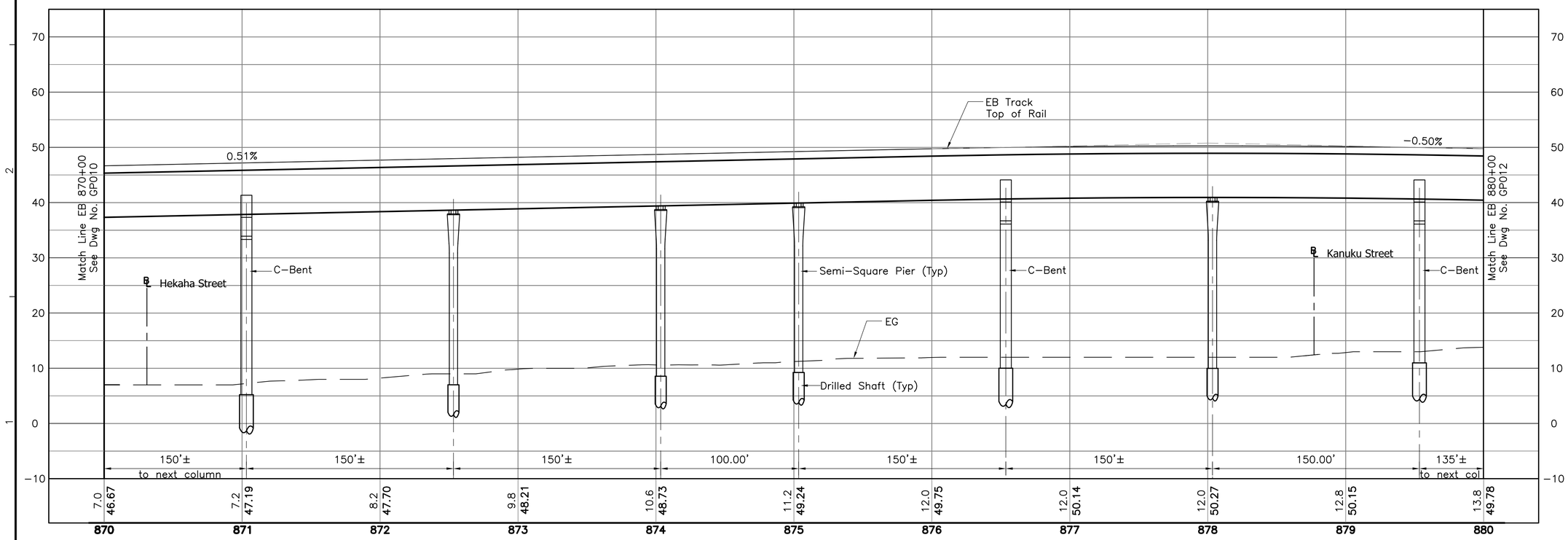
STRUCTURAL
PLAN AND PROFILE

EB 860+00 TO EB 870+00

Contract No.: DB-320
CADD File: KHDB-G04-GP010
Drawing No: GP010
Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 30 of 123

2010-03-11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi−square columns, if used, shall not be less than 6−foot by 6−foot, and the associated drilled shafts shall not be less than 8−foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

Rev	By	Date	Description
A	AB	03−19−10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03−19−10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 − Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

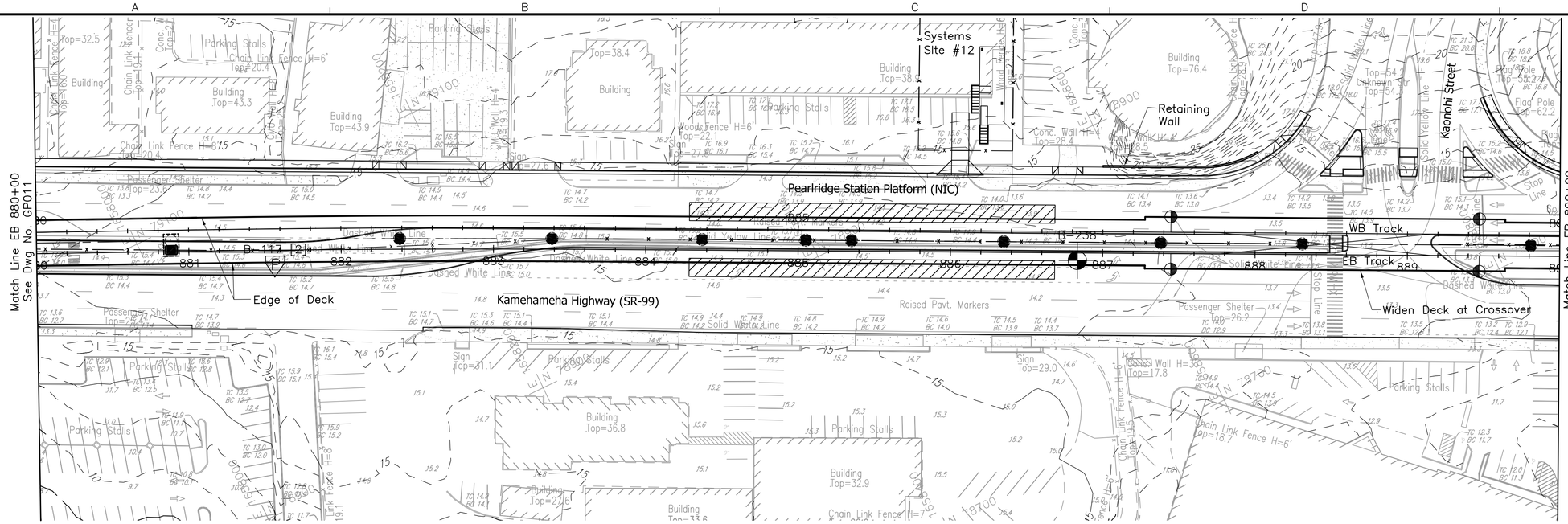
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

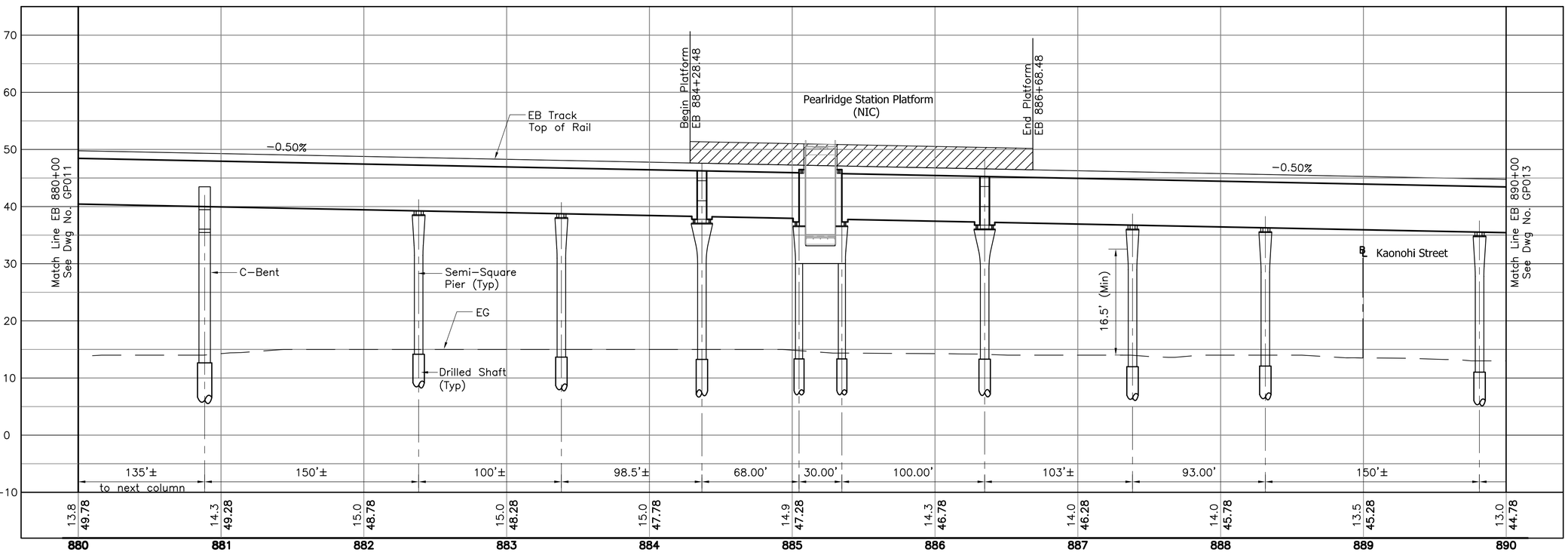
STRUCTURAL
PLAN AND PROFILE

EB 870+00 TO EB 880+00

Contract No.: DB−320
CADD File: KHDB−G04−GP011
Drawing No: GP011 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 31 of 123

2010−03−11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB−G04−GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi−square columns, if used, shall not be less than 6−foot by 6−foot, and the associated drilled shafts shall not be less than 8−foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.
5. For Pearlridge Station details, See Dwg Nos. FP001 through FP009.

Rev	By	Date	Description
A	AB	03−19−10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03−19−10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 − Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

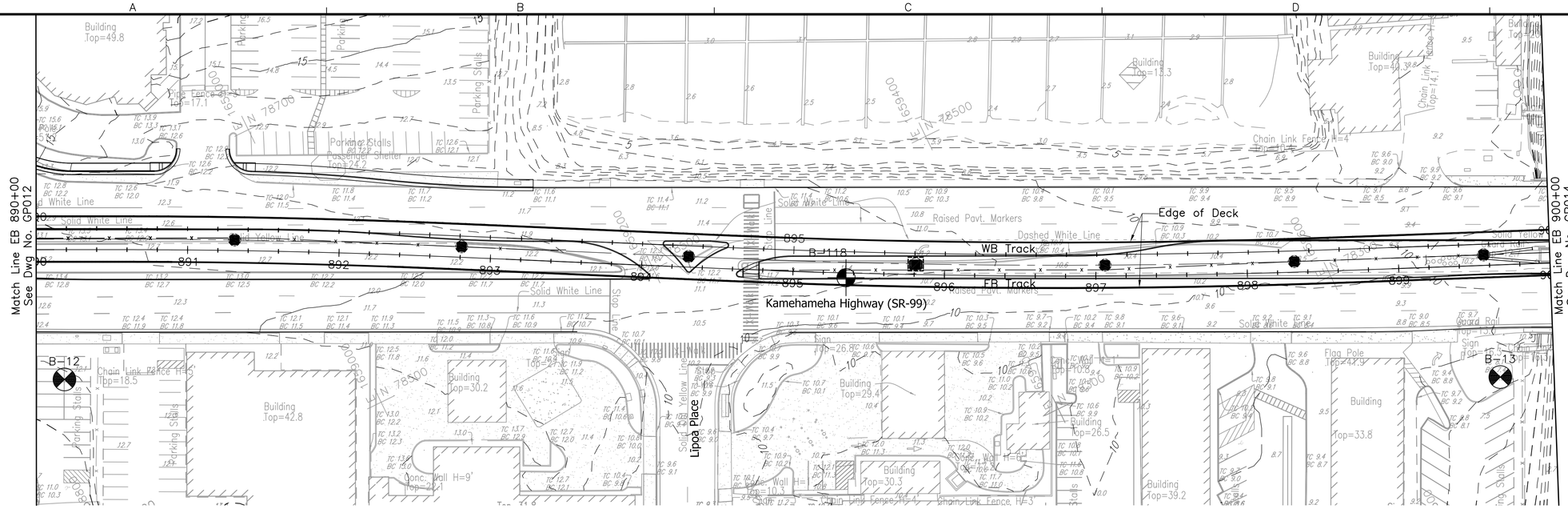
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

STRUCTURAL PLAN AND PROFILE

EB 880+00 TO EB 890+00

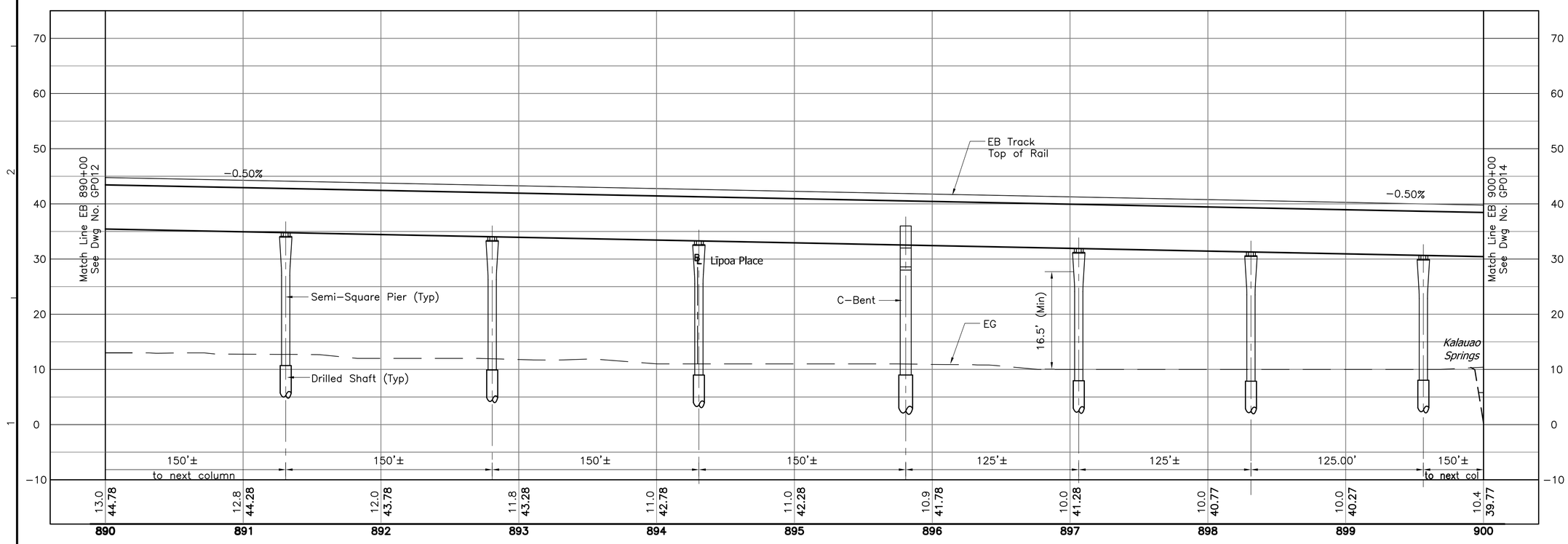
Contract No.: DB−320
CADD File: KHDB−G04−GP012
Drawing No: GP012 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 32 of 123

2010−03−11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB−G04−GP000.dwg



NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.



Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

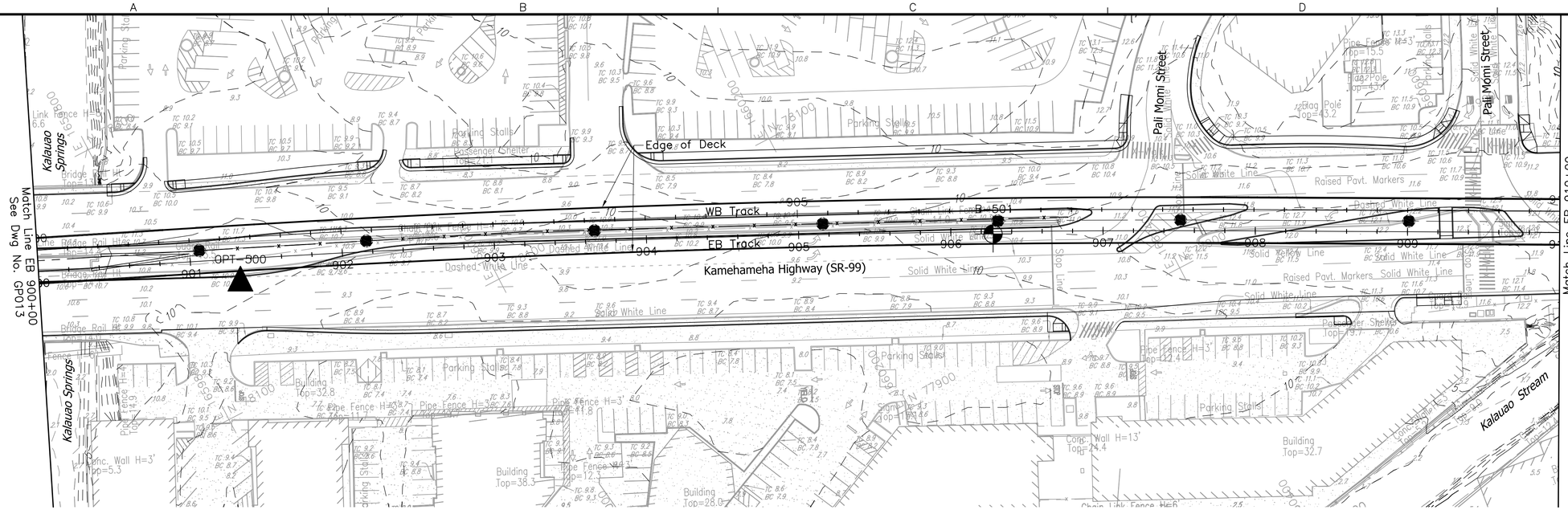
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

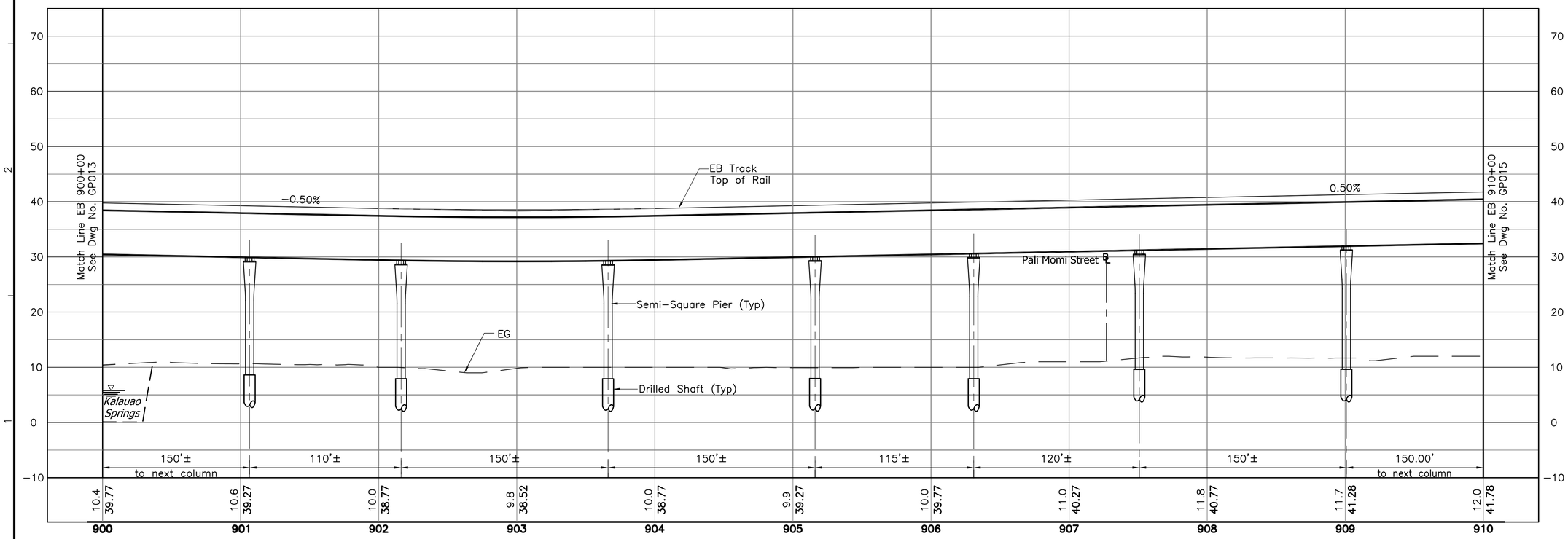
STRUCTURAL
PLAN AND PROFILE

EB 890+00 TO EB 900+00

Contract No.: DB-320
CADD File: KHDB-G04-GP013
Drawing No: GP013 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 33 of 123

2010-03-11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi−square columns, if used, shall not be less than 6−foot by 6−foot, and the associated drilled shafts shall not be less than 8−foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

Rev	By	Date	Description
A	AB	03−19−10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03−19−10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 − Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

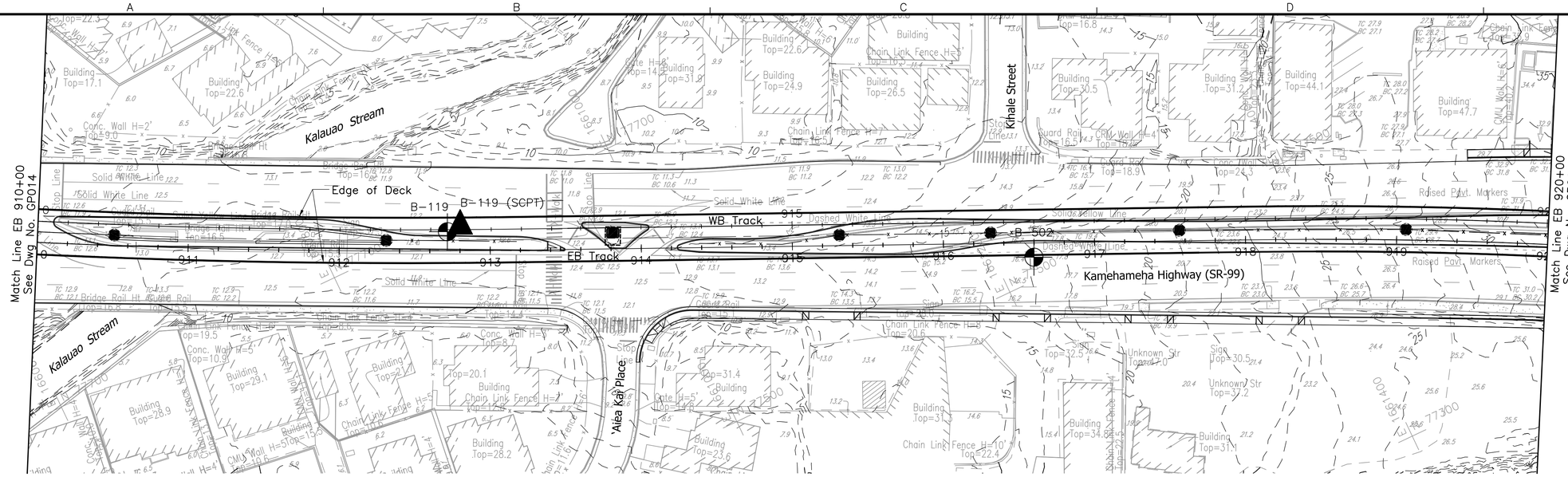
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

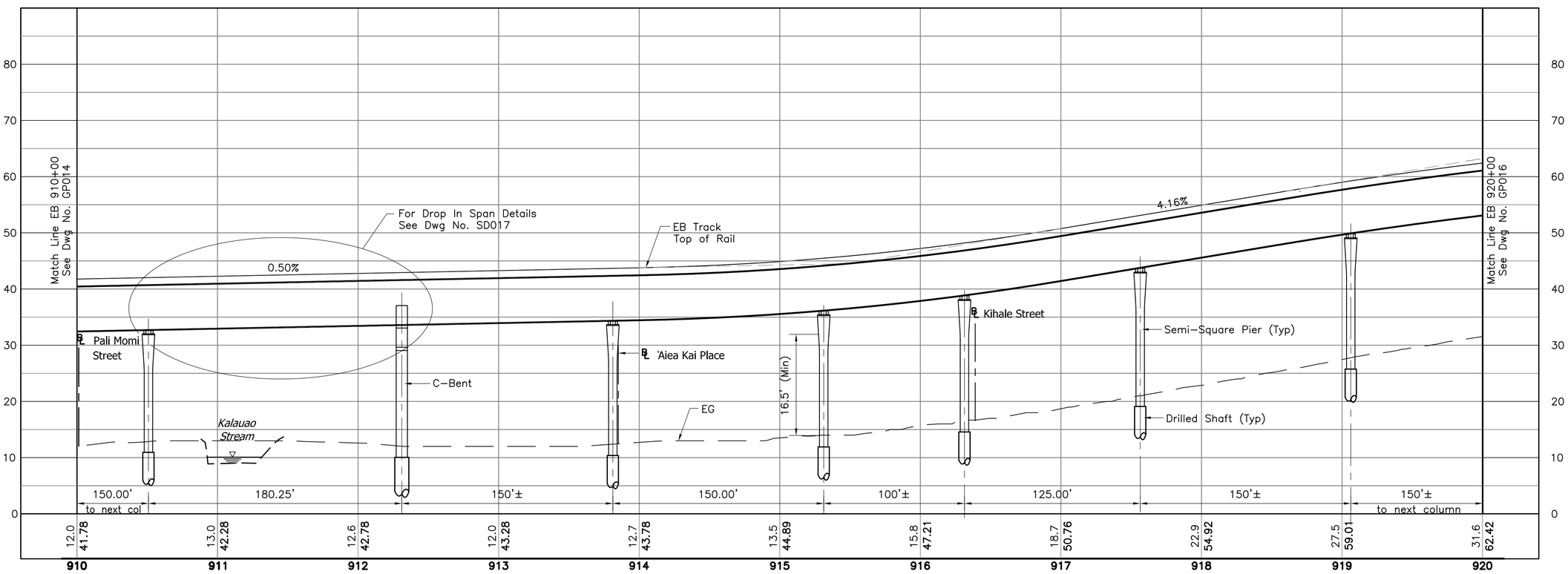
STRUCTURAL
PLAN AND PROFILE

EB 900+00 TO EB 910+00

Contract No.: DB−320
CADD File: KHDB−G04−GP014
Drawing No: GP014 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 34 of 123

2010−03−11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB−G04−GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

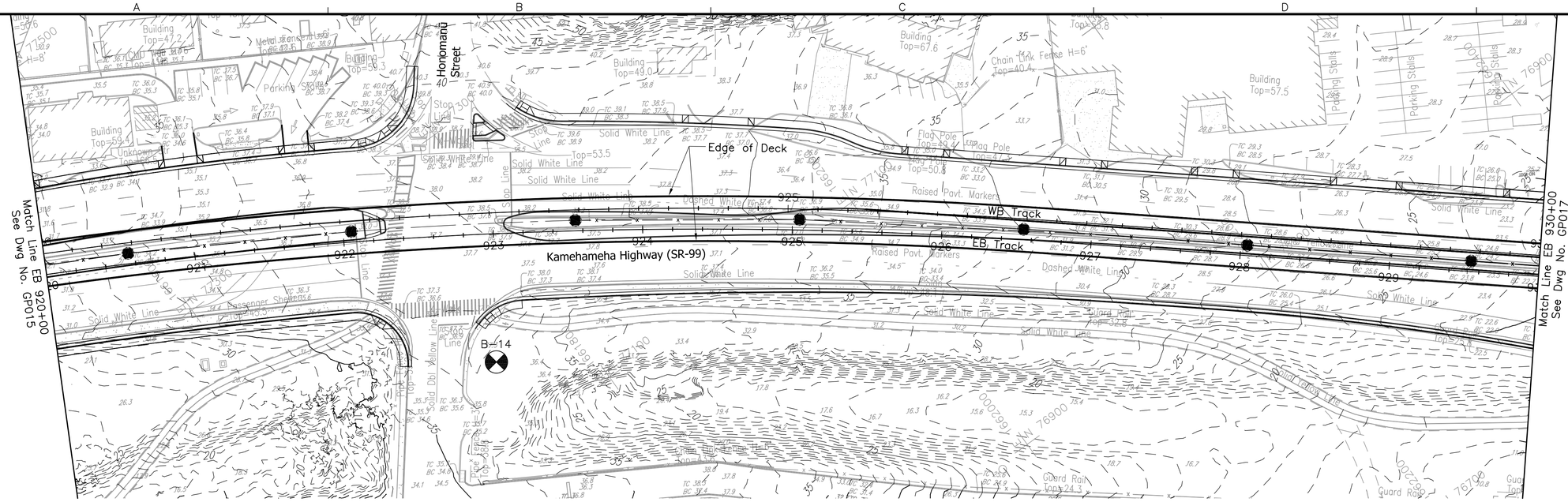
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

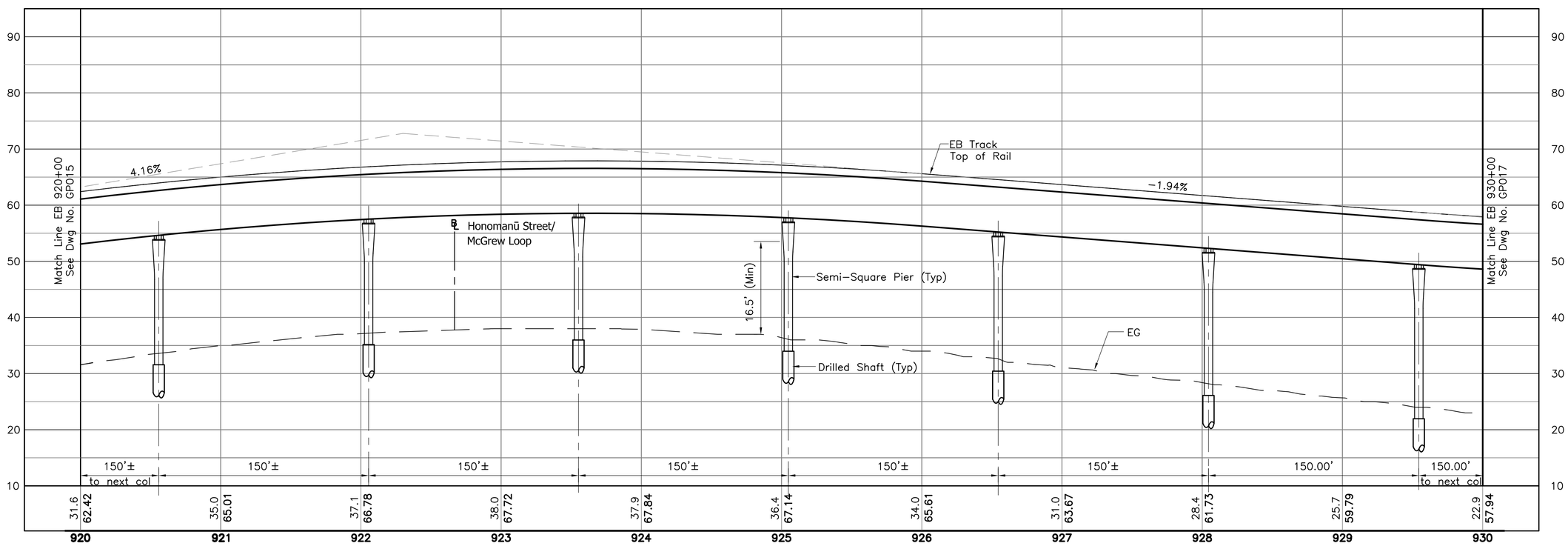
STRUCTURAL PLAN AND PROFILE

EB 910+00 TO EB 920+00

Contract No.: DB-320
CADD File: KHDB-G04-GP015
Drawing No: GP015 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 35 of 123

2010-03-11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

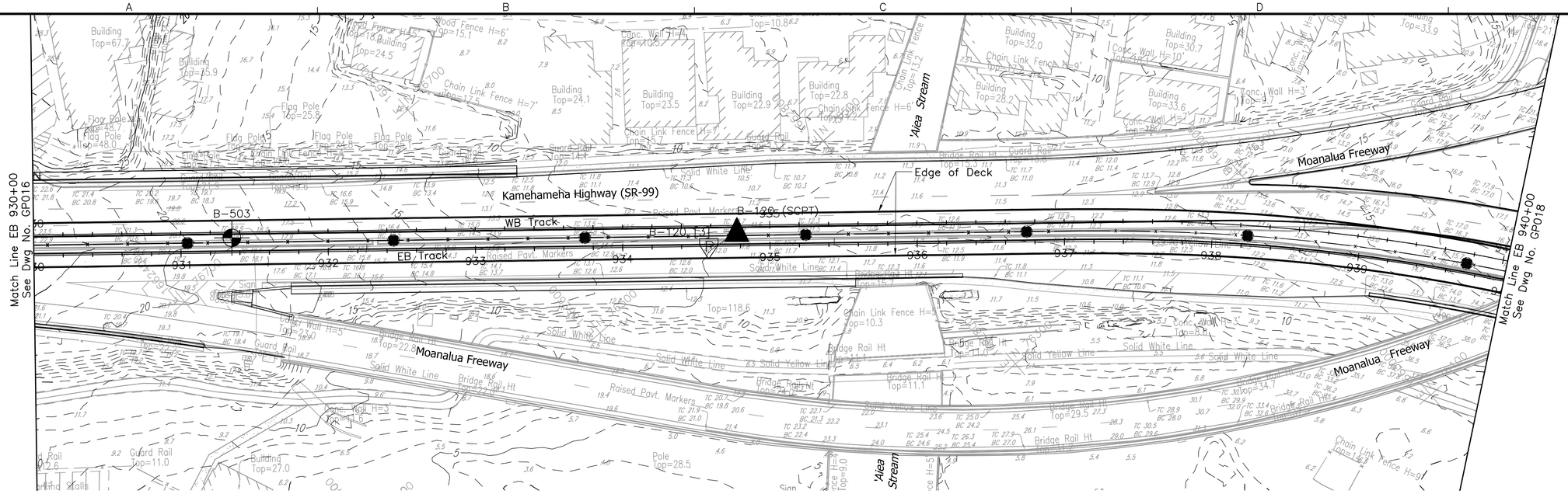
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

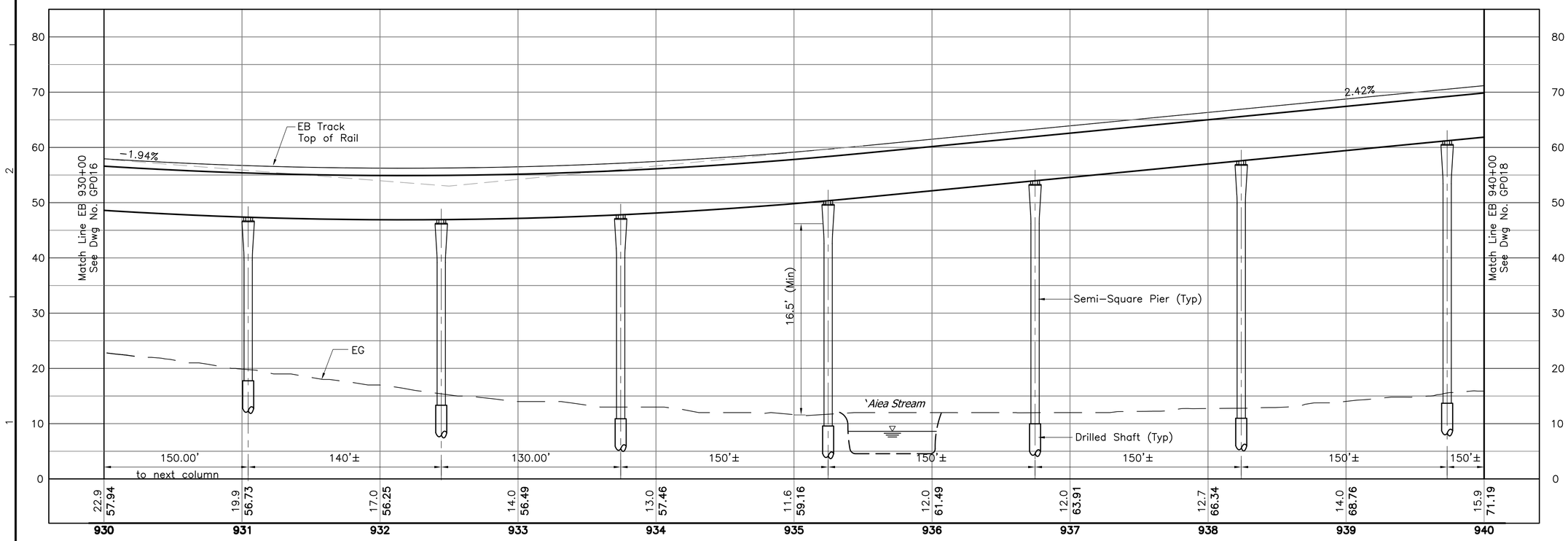
STRUCTURAL
PLAN AND PROFILE

EB 920+00 TO EB 930+00

Contract No.: DB-320
CADD File: KHDB-G04-GP016
Drawing No: GP016 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 36 of 123

2010-03-11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 - Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

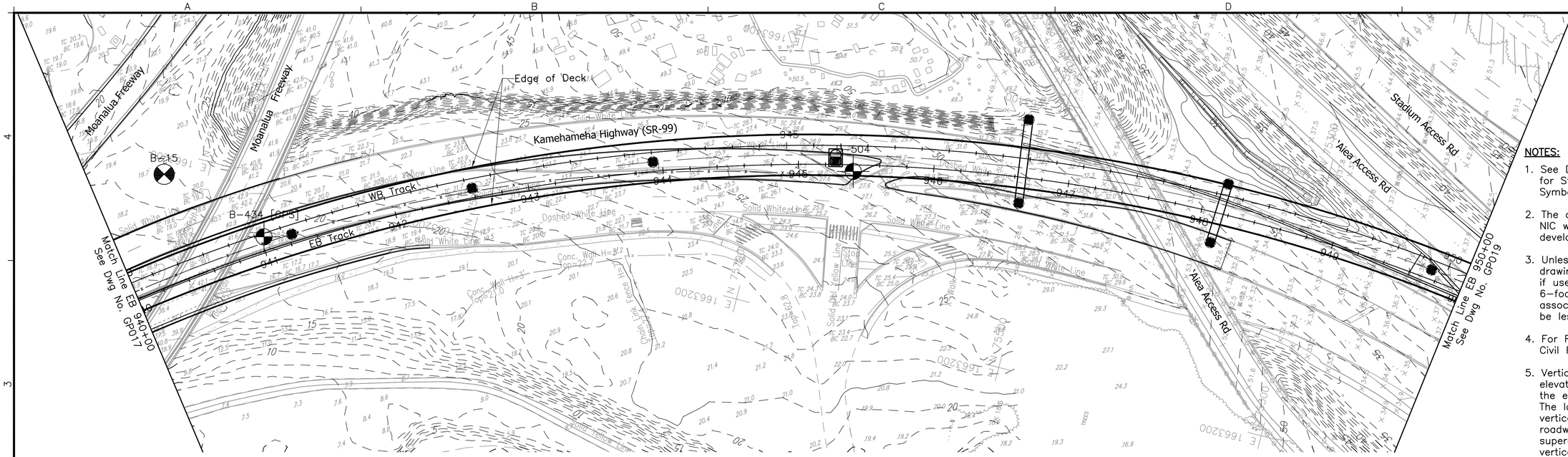
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

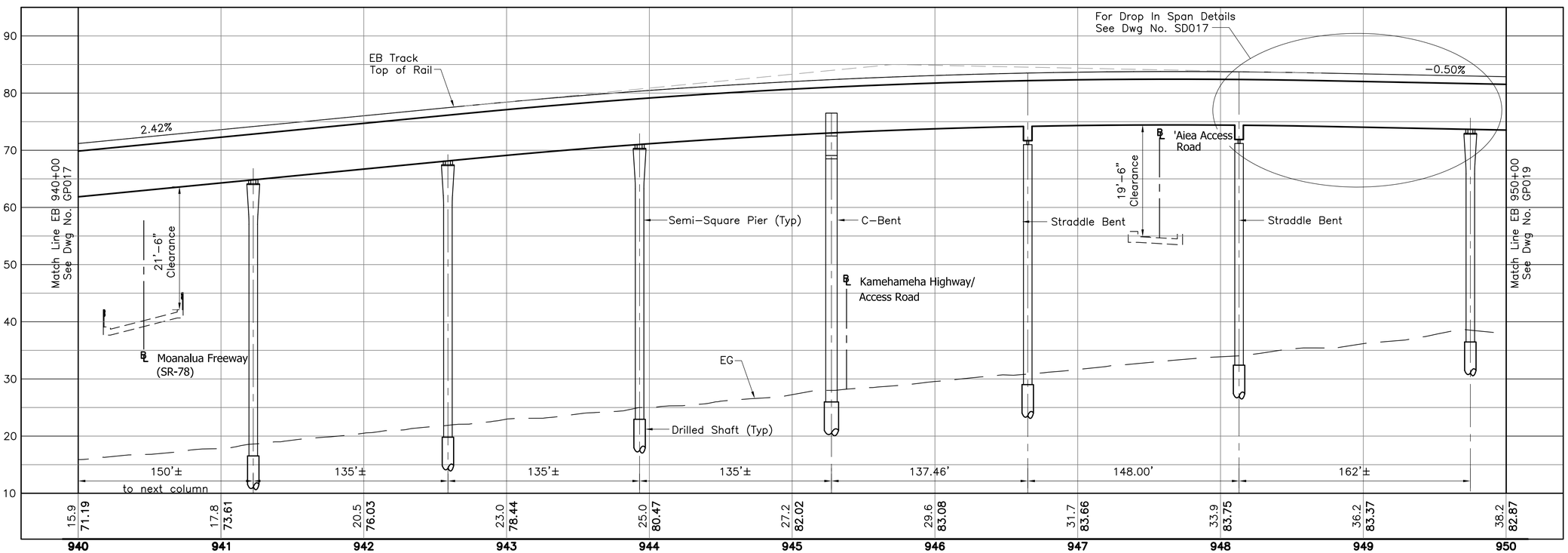
STRUCTURAL
PLAN AND PROFILE

EB 930+00 TO EB 940+00

Contract No.: DB-320
CADD File: KHDB-G04-GP017
Drawing No: GP017 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 37 of 123

2010-03-11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi−square columns, if used, shall not be less than 6−foot by 6−foot, and the associated drilled shafts shall not be less than 8−foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.
5. Vertical clearances shown over elevated roadways are given along the eastbound track centerline only. The location of the minimum vertical clearance depends on the roadway and guideway slopes and superelevations. Actual minimum vertical clearances shall be calculated by the final designer.

40' 0 40'

10' 0 10'

Rev	By	Date	Description
A	AB	03−19−10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03−19−10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PB PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 − Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

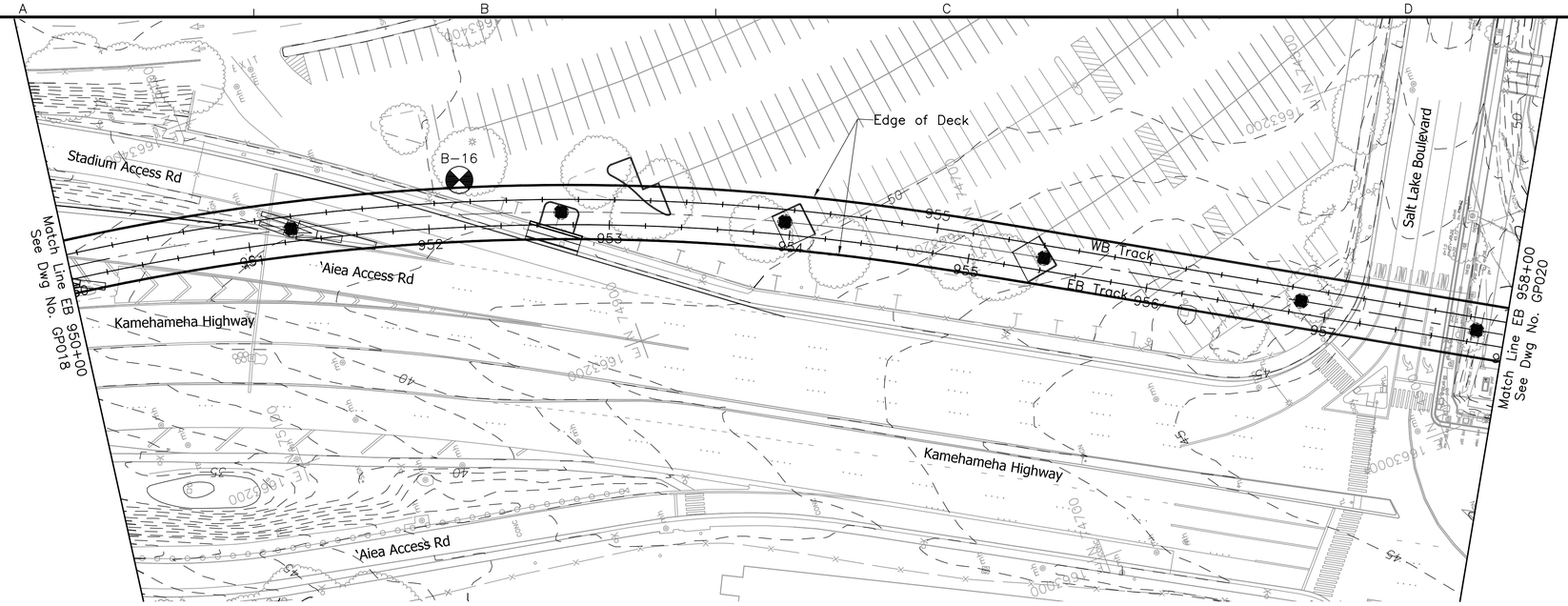
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

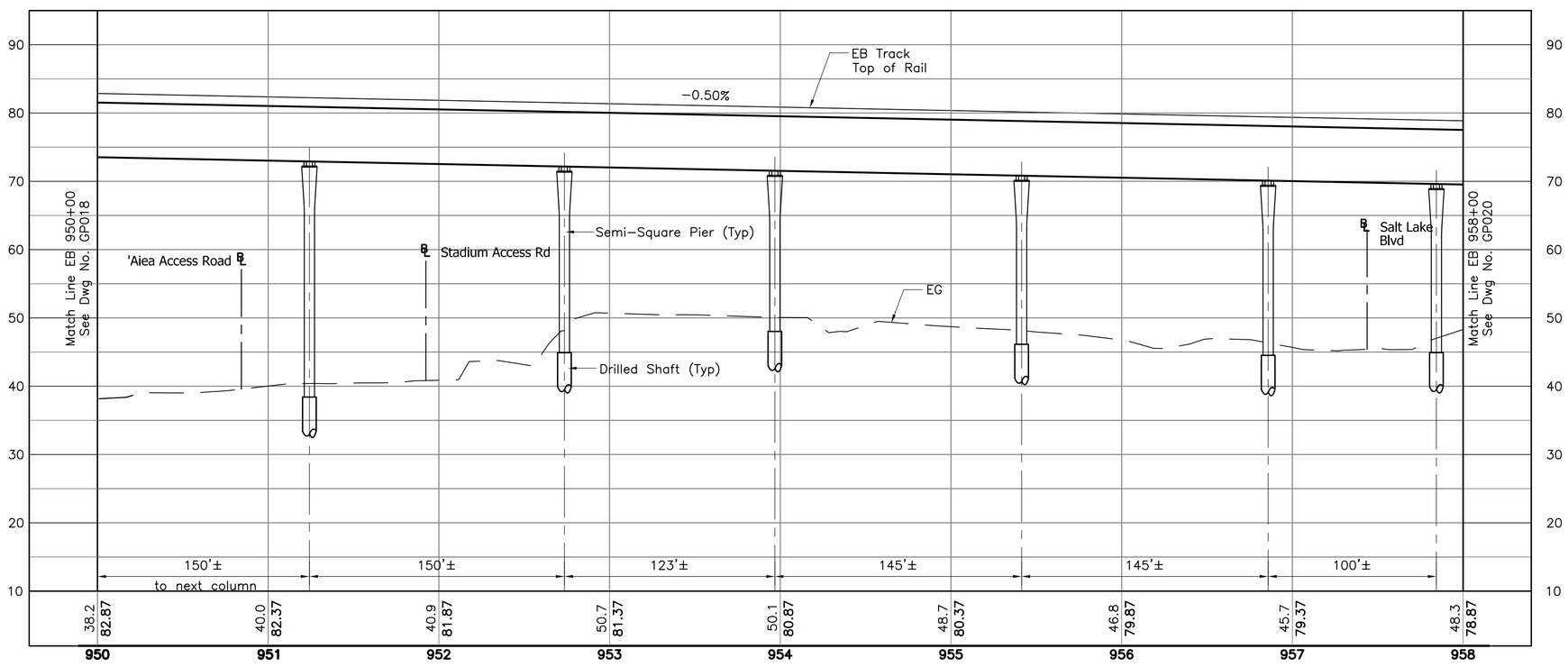
STRUCTURAL
PLAN AND PROFILE

EB 940+00 TO EB 950+00

Contract No.: DB−320
CADD File: KHDB−G04−GP018
Drawing No: GP018 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 38 of 123

2010−03−11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB−G04−GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 - Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

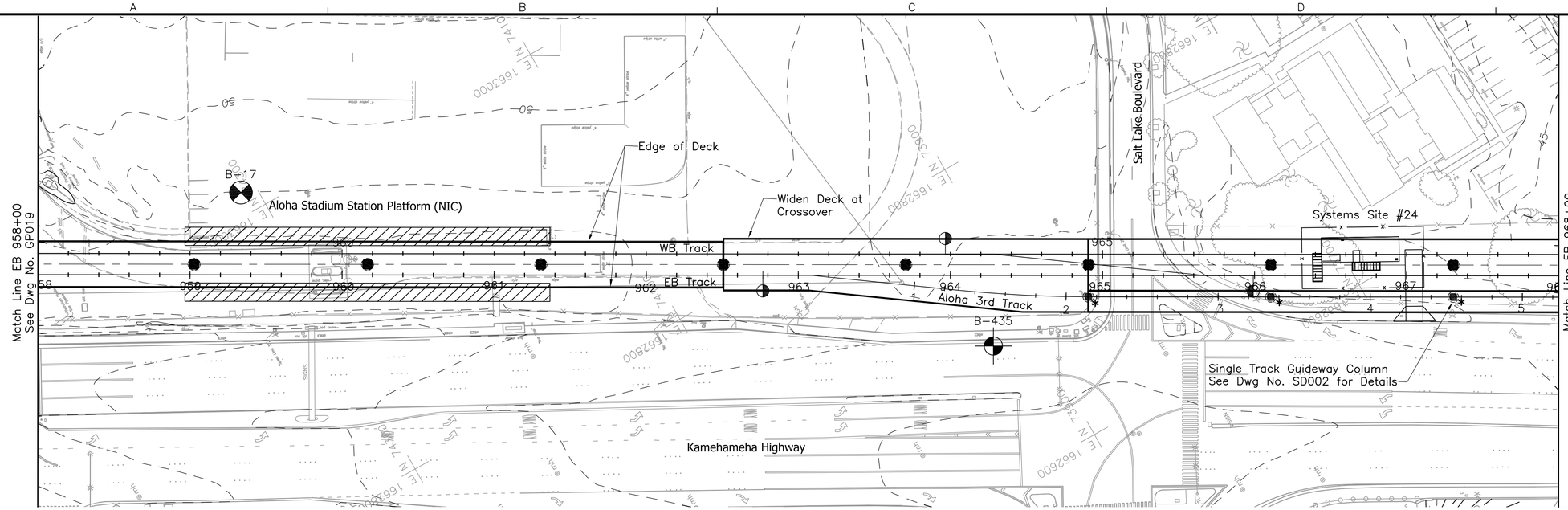
KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

STRUCTURAL
PLAN AND PROFILE

EB 950+00 TO EB 958+00

Contract No.: DB-320
CADD File: KHDB-G04-GP019
Drawing No: GP019 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 39 of 123

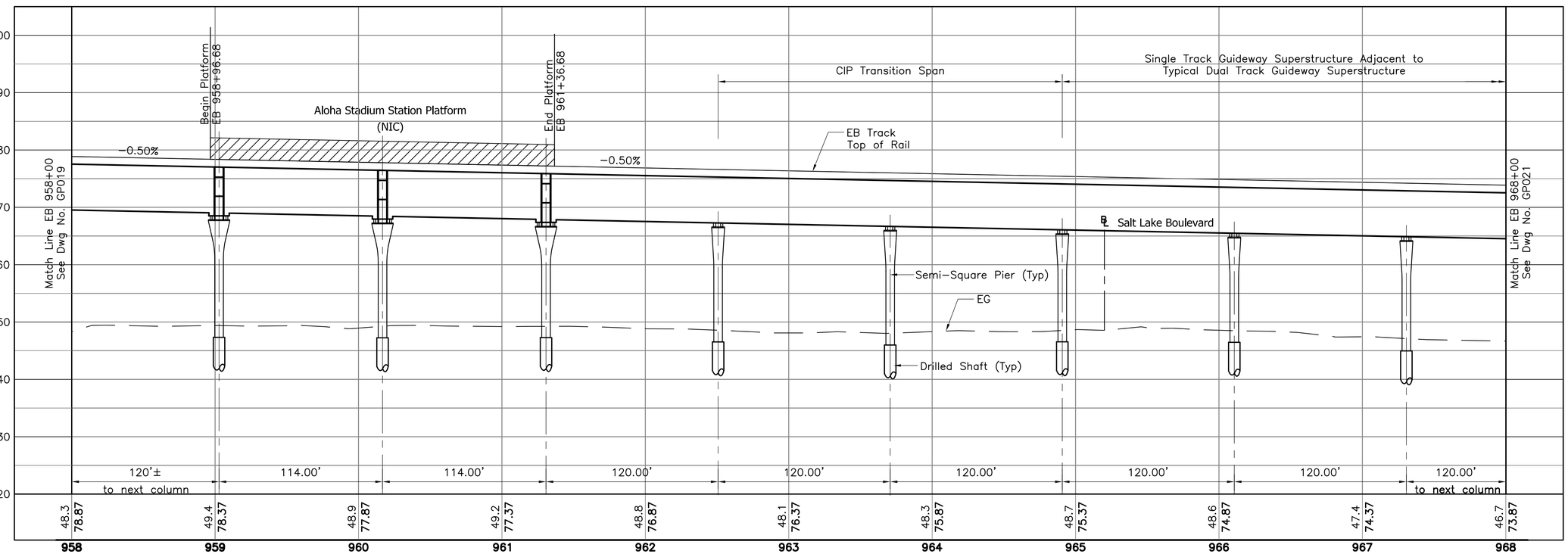
2010-03-11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg



NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi-square columns, if used, shall not be less than 6-foot by 6-foot, and the associated drilled shafts shall not be less than 8-foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.
5. For Aloha Stadium Station details, See Dwg Nos. FP011 through FP018.

* Single Track Guideway Columns assumed to be 5-foot by 5-foot semi-square.



Rev	By	Date	Description
A	AB	03-19-10	Issued for Proposal

PROPOSAL DOCUMENT NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03-19-10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 – Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

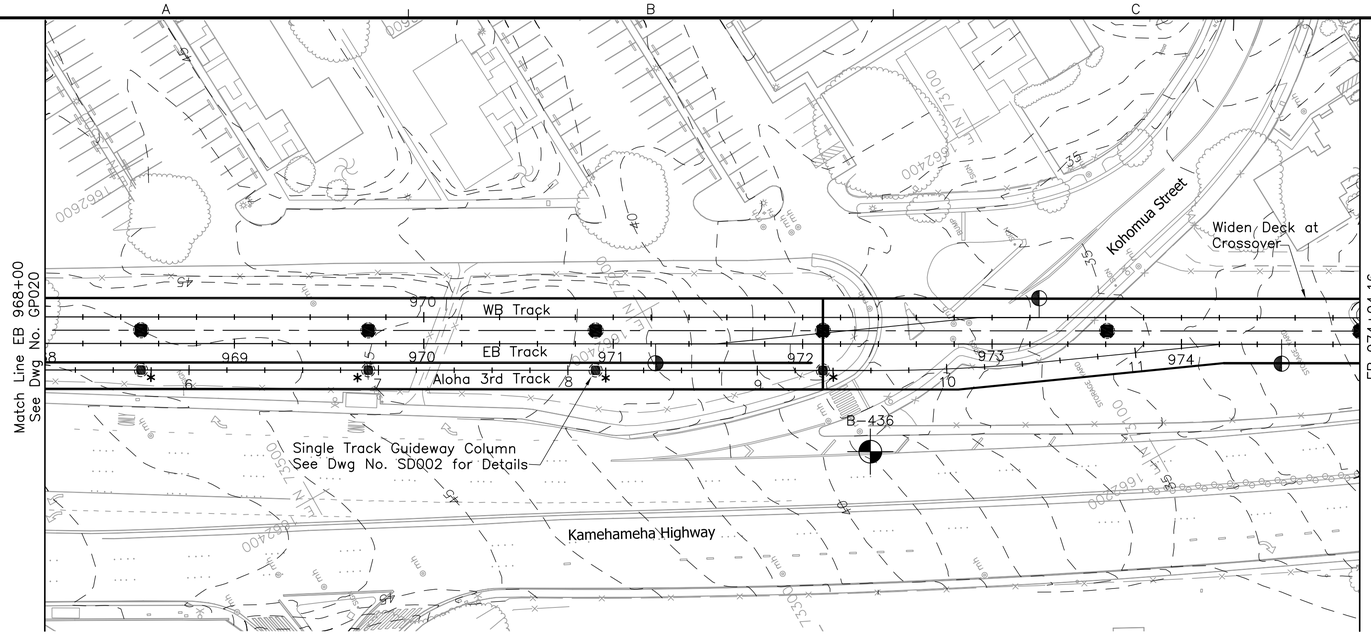
STRUCTURAL PLAN AND PROFILE

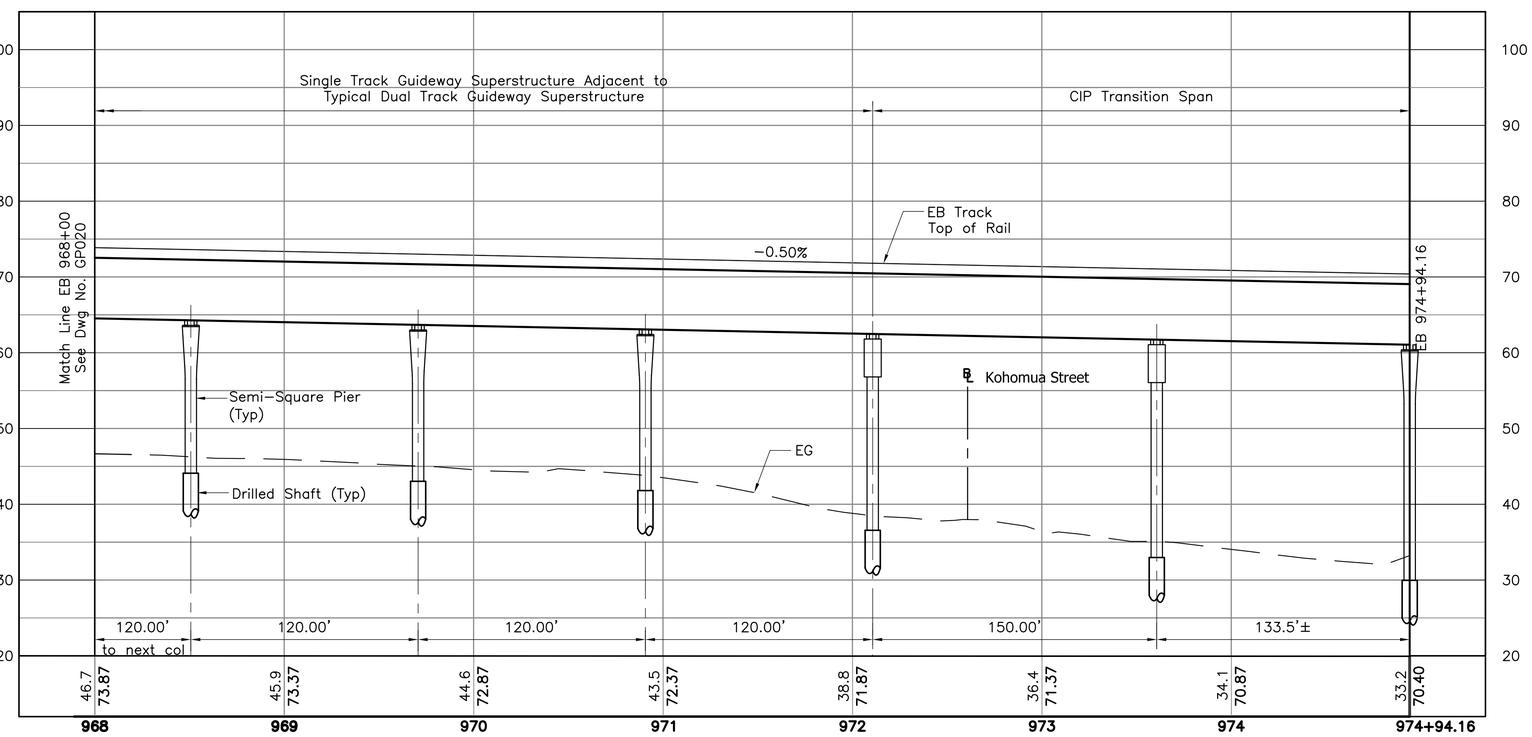
EB 958+00 TO EB 968+00

Contract No.: DB-320
CADD File: KHDB-G04-GP020
Drawing No: GP020 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 40 of 123

40' 0 40'
10' 0 10'

2010-03-11 10:49 AM K:\CADD\08 Structural\Kamehameha DB\KHDB-G04-GP000.dwg





NOTES:

1. See Dwg Nos. SG001 and SG002 for Structural General Notes, Symbols and Abbreviations.
2. The configuration shown relative to NIC work and site condition is under development and subject to change.
3. Unless shown otherwise on the drawings, the semi−square columns, if used, shall not be less than 6−foot by 6−foot, and the associated drilled shafts shall not be less than 8−foot in diameter.
4. For Roadway Improvements, See Civil Roadway Construction Plans.

∗ Single Track Guideway Columns assumed to be 5−foot by 5−foot semi−square.

40' 0 40'

10' 0 10'

Rev	By	Date	Description
A	AB	03−19−10	Issued for Proposal

PROPOSAL DOCUMENT
NOT FOR CONSTRUCTION

Designed: D Yavorsky
Drawn: T Cochran
Checked: T Kimura
Approved: A Borst
Date: 03−19−10

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT
CITY & COUNTY OF HONOLULU - DEPARTMENT OF TRANSPORTATION SERVICES - RAPID TRANSIT DIVISION

Prime Consultant: PARSONS BRINCKERHOFF
1003 Bishop Street, Suite 2250 − Honolulu, HI 96813

Subconsultant:

For reduced prints, original page size in inches: 0 1 2 3 4

KAMEHAMEHA HIGHWAY GUIDEWAY DESIGN-BUILD

STRUCTURAL
PLAN AND PROFILE

EB 968+00 TO EB 974+94.16

Contract No.: DB−320
CADD File: KHDB−G04−GP021
Drawing No: GP021 Rev. A
Scale: 1"=40' H, 1"=10' V
Page No. 41 of 123

2010−03−12 2:04 PM K:\CADD\08 Structural\Kamehameha DB\KHDB−G04−GP000.dwg