



Wisconsin Department of Transportation

January 6, 2016

Division of Transportation Systems Development

Bureau of Project Development
4802 Sheboygan Avenue, Rm 601
P O Box 7916
Madison, WI 53707-7916

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

NOTICE TO ALL CONTRACTORS:

Proposal #08: 1060-38-70, WISC 2014 383
East-West Freeway
Dousman Road Bridges
(B-67-79 and 80)
IH-94
Waukesha County

1060-38-71, WISC 2016 005
East-West Freeway
Golden Lake Road
(CTH BB) Bridges
IH-94
Waukesha County

Letting of January 12, 2016

This is Addendum No. 01, which provides for the following:

Plan Sheets

| Revised Plan Sheets | |
|---------------------|------------------------------------------------------------------------------------|
| Plan Sheet | Plan Sheet Title (brief description of changes to sheet) |
| 1060-38-70 | |
| 5 | Concrete Barrier Type S56A revised to Concrete Barrier Type S56 |
| 207 | Concrete Barrier Type S56A revised to Concrete Barrier Type S56 on elevation view. |
| 224 | Concrete Barrier Type S56A revised to Concrete Barrier Type S56 on elevation view. |
| 1060-38-71 | |
| 5 | Concrete Barrier Type S56A revised to Concrete Barrier Type S56 |
| 212 | Concrete Barrier Type S56A revised to Concrete Barrier Type S56 on elevation view. |
| 229 | Concrete Barrier Type S56A revised to Concrete Barrier Type S56 on elevation view. |

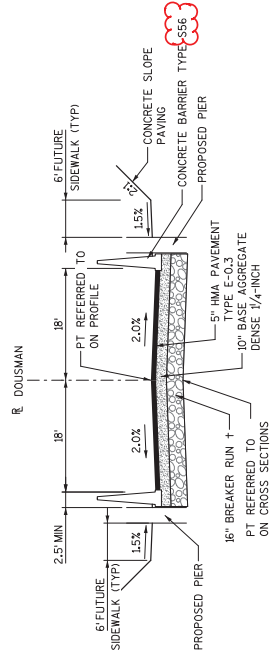
The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

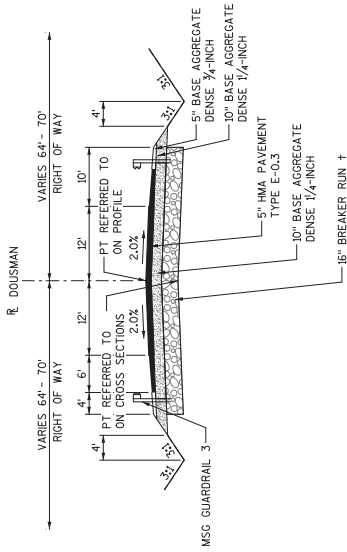
Mike Coleman

Proposal Development Specialist
Proposal Management Section

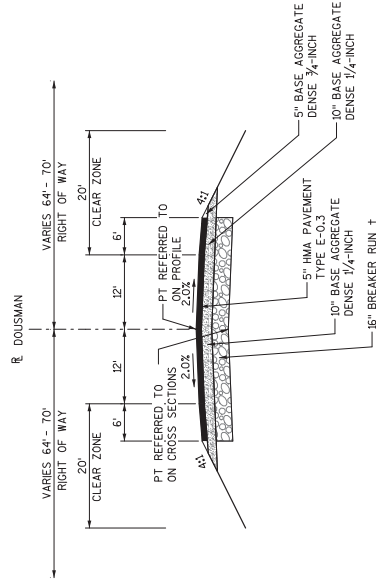
END OF ADDENDUM



TYPICAL FINISHED SECTION DOUSMAN ROAD
STA 604+85 TO 607+00 DOUSMAN RD



TYPICAL FINISHED SECTION DOUSMAN ROAD
STA 603+95 TO 604+85 DOUSMAN RD
STA 607+00 TO 608+00 DOUSMAN RD



TYPICAL FINISHED SECTION DOUSMAN ROAD
STA 603+50 TO 603+95 DOUSMAN RD

Addendum No. 01
ID 1060-38-70
Revised Sheet 5
January 6, 2016

+ SEE RELIEF TRENCH DETAIL

| | | | |
|--------------------------------------------------------------------------------------|-----------------------|----------------------------------------|----------------------|
| PROJECT NO: 1060-38-70 | COUNTY: WAUKESHA | PROPOSED TYPICAL SECTIONS DOUSMAN ROAD | SHEET 5 |
| HWY: IH-94 | PLOT BY: imlinsky | PLOT NAME: DOUSMAN ROAD | WISDOT/CADD SHEET 42 |
| FILE NAME : Y:\n\l\waukesha\201005\20103_00\Eng_Docs\Sheets\1060-38-70\020302-15.cgn | PLOT DATE : 7.30.2015 | PLOT SCALE : 1:120 | |

Addendum No. 01
 ID 1060-38-70
 Revised Sheet 207
 January 6, 2016

STATE PROJECT NUMBER
1060-38-70

DESIGN DATA
 LIVE LOAD:
 DESIGN LOADING HL-93
 INVENTORY RATING FACTOR 1.06
 DESIGN SPEED 50 MPH
 WISCONSIN STANDARD FORM 1 VEHICLE (WB6-SPI) = 250 KIPS
 DESIGN ACCOUNTS FOR FUTURE WEARING SURFACE = 20 PSF

MATERIAL PROPERTIES:
 CONCRETE MASONRY SUPERSTRUCTURE (HPFC)
 ALL OTHER REINFORCEMENT HIGH STRENGTH BAR, GRADE 60
 STEEL REINFORCEMENT HIGH STRENGTH BAR, GRADE 60
 ALL OTHER REINFORCEMENT HIGH STRENGTH BAR, GRADE 60
 ALL OTHER REINFORCEMENT HIGH STRENGTH BAR, GRADE 60

FOUNDATION DATA:
 PLACE PIERS AND ABUTMENTS ON STEEL HP 12x53 PILING WITH PILE POINTS WITH A REQUIRED DRIVING RESISTANCE OF 100 TONS/PILE. AT ALL ABUTMENTS AND PIERS. THE REQUIRED DRIVING RESISTANCE IS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION.

* THE FACTORED AXIAL RESISTANCE OF PIERS IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

EST. PILE LENGTHS:
 75 FT AT W. ABUT.
 65 FT AT PIER 1
 65 FT AT PIER 2
 75 FT AT E. ABUT.

TRAFFIC DATA DOUSMAN RD:
 AADT (2051) = 4300
 AADT (2035) = 46000
 TRUCK % = 16.2%
 D = 60/40
 DESIGN SPEED = 50 MPH

TRAFFIC DATA IH-94:
 AADT (2051) = 4300
 AADT (2035) = 46000
 TRUCK % = 16.2%
 D = 60/40
 DESIGN SPEED = 70 MPH

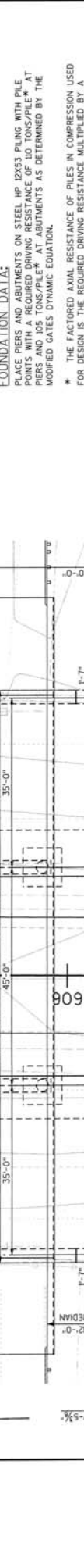
LIST OF DRAWINGS:
 1. GENERAL PLAN AND ELEVATION
 2. CROSS-SECTION
 3. QUANTITIES & GENERAL NOTES
 4. SUBSURFACE EXPLORATION
 5. WEST ABUTMENT PLAN & ELEVATION
 6. EAST ABUTMENT PLAN & ELEVATION
 7. WEST ABUTMENT DETAILS
 8. EAST ABUTMENT DETAILS
 9. PIERS 1 & 2 DETAILS
 10. PIERS 1 & 2 DETAILS
 11. SUPERSTRUCTURE PLAN
 12. SUPERSTRUCTURE DETAILS
 13. SUPERSTRUCTURE DETAILS
 14. STRUCTURAL APPROACH SLAB DETAILS
 15. SINGLE SLOPE PARAPET 4255 MODIFIED
 16. ALTERNATE CONSTRUCTION JOINT

EXISTING STRUCTURE:
 THE EXISTING BRIDGE (B-67-339) IS A THREE SPAN CONCRETE SLAB BRIDGE FOUNDED ON MULTICOLUMN CONCRETE PIERS AND CONCRETE STUB ABUTMENTS. THE EXISTING BRIDGE IS 12'-2" LONG AND THE DECK IS 42'-6" WIDE. THE FOUNDATIONS ARE SUPPORTED ON TIMBER PILING.

BENCHMARKS:
 NAME ELEVATION DESCRIPTION
 BM3 890.23 ALUMINUM DISK IN PARAPET - EB
 BM4 888.95 ALUMINUM DISK IN PARAPET - WB

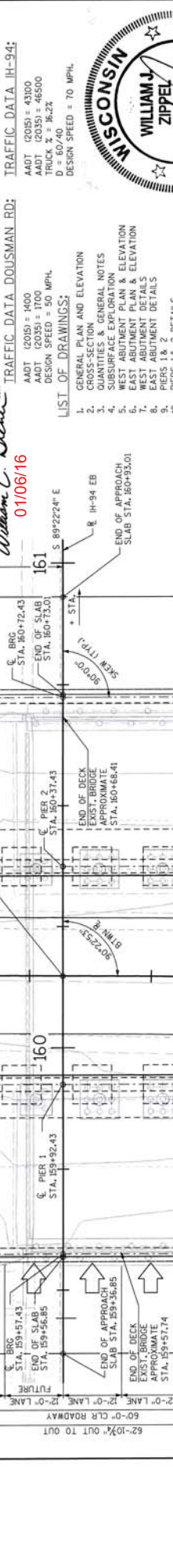
PROFILE GRADE LINE IH-94 EB
 ELEVATION DESCRIPTION
 STA. 159+92.43 PIER 1
 STA. 159+92.43 PIER 1
 STA. 160+37.43 PIER 2
 STA. 160+37.43 PIER 2
 STA. 160+72.43 END OF SLAB
 STA. 160+72.43 END OF SLAB
 STA. 160+73.01 END OF SLAB
 STA. 160+73.01 END OF SLAB
 STA. 160+73.01 END OF SLAB
 STA. 160+73.01 END OF SLAB

PROFILE GRADE LINE DOUSMAN RD.
 ELEVATION DESCRIPTION
 STA. 159+57.43 BRG W. ABUT.
 STA. 159+57.43 BRG W. ABUT.
 STA. 159+57.43 BRG W. ABUT.
 STA. 159+57.43 BRG W. ABUT.
 STA. 159+57.43 BRG W. ABUT.
 STA. 159+57.43 BRG W. ABUT.
 STA. 159+57.43 BRG W. ABUT.
 STA. 159+57.43 BRG W. ABUT.
 STA. 159+57.43 BRG W. ABUT.
 STA. 159+57.43 BRG W. ABUT.



WISCONSIN PROFESSIONAL ENGINEER
 WILLIAM J. ZIPPEL
 38968-006
 MILWAUKEE, WI

WILLIAM C. DECHER
 01/06/16



CONSULTANT CONTACT:
 WILLIAM J. ZIPPEL, PE, SE
 ALFRED BENESCH AND CO.
 1300 WEST CANAL STREET, SUITE 150
 MILWAUKEE, WI 53233
 PHONE: 414-309-1261

BRIDGE OFFICE CONTACT:
 WILLIAM DREHER, PE
 (608) 266-8489

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 CHIEF STRUCTURES DESIGN ENGINEER
 STRUCTURE B-67-339
 IH-94 EB OVER DOUSMAN RD.
 COUNTY WAUKESHA TOWNSHIP/VILLAGE SUMMIT

DESIGN SPEC ASSIGNED DESIGN DESIGN SPECIFICATIONS
 COUNTY WAUKESHA TOWNSHIP/VILLAGE SUMMIT
 DESIGNER WILLIAM J. ZIPPEL
 DESIGN DATE 01/06/16
 PLANS WJZ
 SHEET 1 OF 17

GENERAL PLAN AND ELEVATION

SCALE = 820
 FILE = 081010.8670339.005PAC.DWG

REVISED BARBER CALLOUT
 NO. DATE BY
 1 1/2/16 REVISION

benesch
 Engineers, Architects, Planners
 140
 Milwaukee, Wisconsin 53233
 414-309-1200 Job No. 2016010

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 ACCEPTED
 CHIEF STRUCTURES DESIGN ENGINEER
 DATE

STRUCTURE B-67-339
 IH-94 EB OVER DOUSMAN RD.
 COUNTY WAUKESHA TOWNSHIP/VILLAGE SUMMIT

DESIGN SPEC ASSIGNED DESIGN DESIGN SPECIFICATIONS
 COUNTY WAUKESHA TOWNSHIP/VILLAGE SUMMIT
 DESIGNER WILLIAM J. ZIPPEL
 DESIGN DATE 01/06/16
 PLANS WJZ
 SHEET 1 OF 17

GENERAL PLAN AND ELEVATION

SCALE = 820
 FILE = 081010.8670339.005PAC.DWG

REVISED BARBER CALLOUT
 NO. DATE BY
 1 1/2/16 REVISION

benesch
 Engineers, Architects, Planners
 140
 Milwaukee, Wisconsin 53233
 414-309-1200 Job No. 2016010

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 ACCEPTED
 CHIEF STRUCTURES DESIGN ENGINEER
 DATE

STRUCTURE B-67-339
 IH-94 EB OVER DOUSMAN RD.
 COUNTY WAUKESHA TOWNSHIP/VILLAGE SUMMIT

DESIGN SPEC ASSIGNED DESIGN DESIGN SPECIFICATIONS
 COUNTY WAUKESHA TOWNSHIP/VILLAGE SUMMIT
 DESIGNER WILLIAM J. ZIPPEL
 DESIGN DATE 01/06/16
 PLANS WJZ
 SHEET 1 OF 17

GENERAL PLAN AND ELEVATION

SCALE = 820
 FILE = 081010.8670339.005PAC.DWG

Addendum No. 01
ID 1060-38-70
Revised Sheet 224
January 6, 2016

STATE PROJECT NUMBER
1060-38-70

DESIGN DATA
LIVE LOAD: 1060-38-70
DESIGN LOADING IH-93
OPERATING FACTOR 1.06
WISCONSIN STANDARD PERMIT VEHICLE (WB-SPV) = 250 KIPS
DESIGN ACCOUNTS FOR FUTURE WEARING SURFACE = 20 PSF

MATERIAL PROPERTIES:
CONCRETE: MASONRY SUPERSTRUCTURE (HPC)
STEEL: REINFORCEMENT HIGH STRENGTH BAR, GRADE 60
 $f_c = 4000$ PSI
 $f_y = 3500$ PSI
 $f_y = 60$ KSI

FOUNDATION DATA:
FLANGE PIERS AND ABUTMENTS ON STEEL HP 12X53 PILING WITH PILE POINTS WITH A REQUIRED DRIVING RESISTANCE OF 100 TONS/PILE*. AT PIERS AND 105 TONS/PILE* AT ABUTMENTS AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION.
* THE FACTORED AXIAL RESISTANCE OF PIERS IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC DATA DOUSMAN RD:
AADT (2009) = 4300
AADT (2039) = 46500
TRUCK % = 16.22
DESIGN SPEED = 70 MPH.

TRAFFIC DATA IH-94:
AADT (2009) = 1400
AADT (2039) = 1700
DESIGN SPEED = 50 MPH.

LIST OF DRAWINGS:
1. GENERAL PLAN AND ELEVATION
2. QUANTITIES & GENERAL NOTES
3. SUBSURFACE EXPLORATION
4. WEST ABUTMENT PLAN & ELEVATION
5. EAST ABUTMENT PLAN & ELEVATION
6. EAST APPROACH DETAILS
7. PIERS 1 & 2
8. PIERS 1 & 2 DETAILS
9. SUPERSTRUCTURE PLAN
10. SUPERSTRUCTURE DETAILS
11. STRUCTURAL APPROACH SLABS
12. STRUCTURAL APPROACH SLAB DETAILS
13. SINGLE SLOPE PARAPET 4255 MODIFIED
14. ALTERNATE CONSTRUCTION JOINT



BENCHMARKS

| NAME | ELEVATION | DESCRIPTION |
|------|-----------|-------------------------------|
| BM3 | 890.23 | ALUMINUM DISK IN PARAPET - EB |
| BM4 | 885.95 | ALUMINUM DISK IN PARAPET - WB |

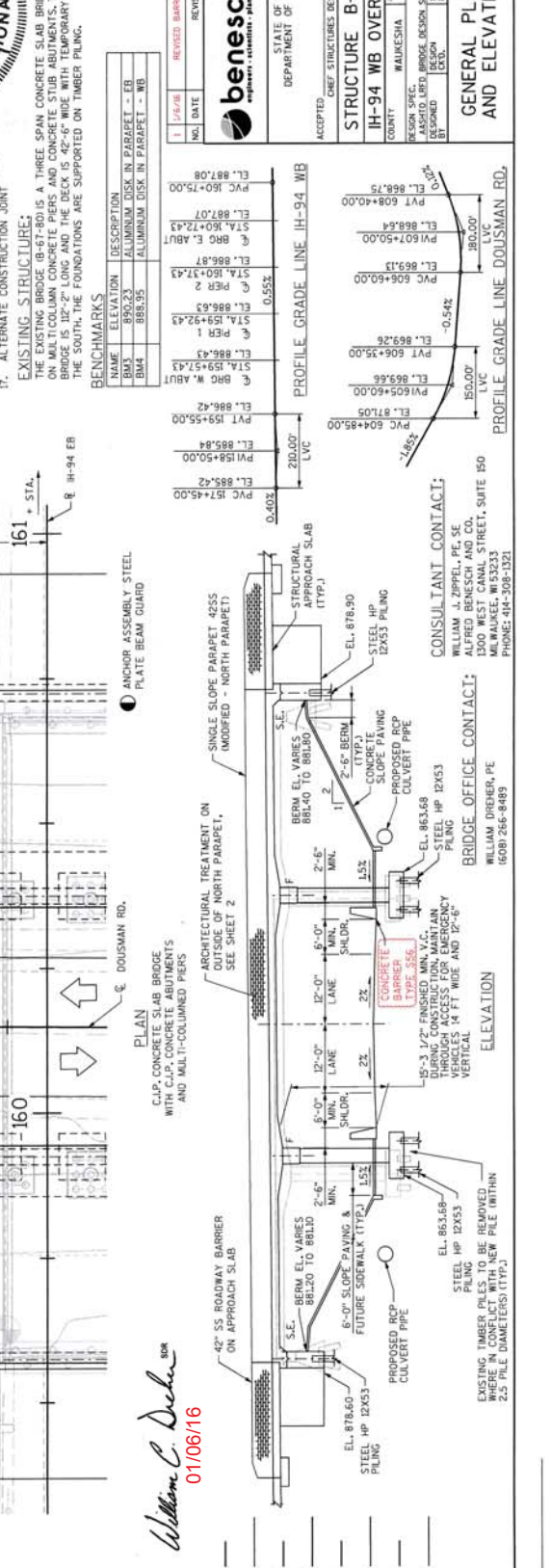
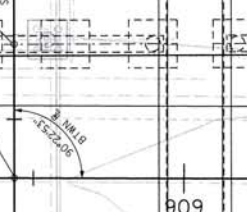
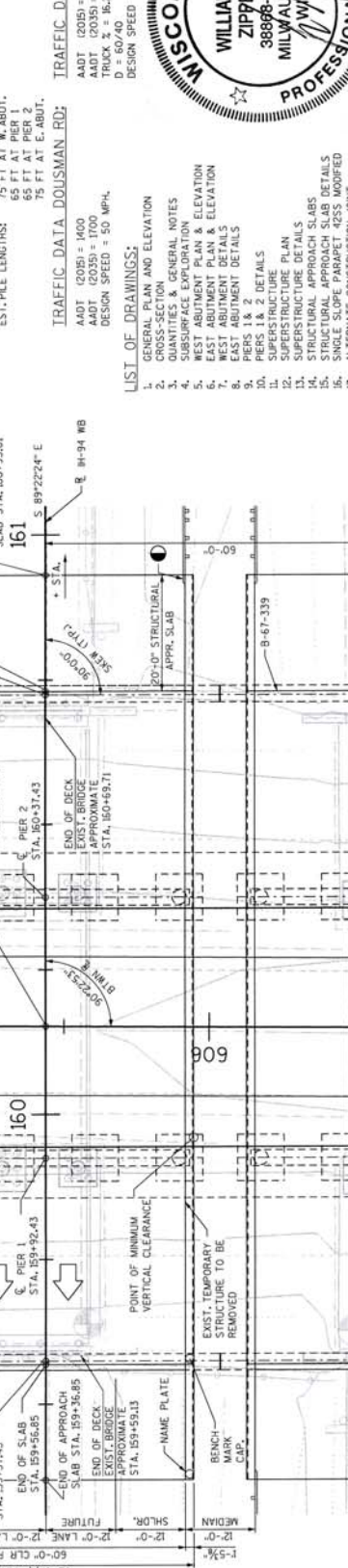
REVISIONS

| NO. | DATE | BY | REVISION |
|-----|--------|----|-------------------------|
| 1 | 1/6/16 | | REVISED BARRIER CALLOUT |

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED: [Signature]
DATE: [Date]

STRUCTURE B-67-340
IH-94 WB OVER DOUSMAN RD.
COUNTY: WAUKESHA
DESIGN SPEC.: WISCONSIN BRIDGE DESIGN SPECIFICATIONS
BY: [Signature]

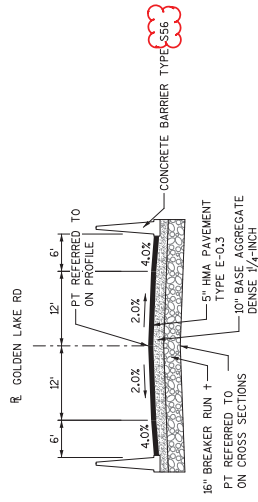
GENERAL PLAN AND ELEVATION
SHEET 1 OF 17
SCALE = 1/20



CONSULTANT CONTACT:
WILLIAM J. ZIPPEL, PE, SE
ALFRED BENECH AND CO.
1300 WEST CANAL STREET, SUITE 150
MILWAUKEE, WI 53233
PHONE: 414-309-0331

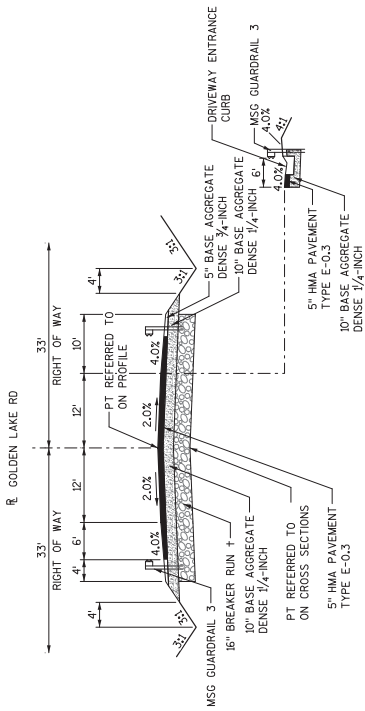
BRIDGE OFFICE CONTACT:
WILLIAM ORDERER, PE
16081 266-8489

WILLIAM C. DICKERSON
01/06/16



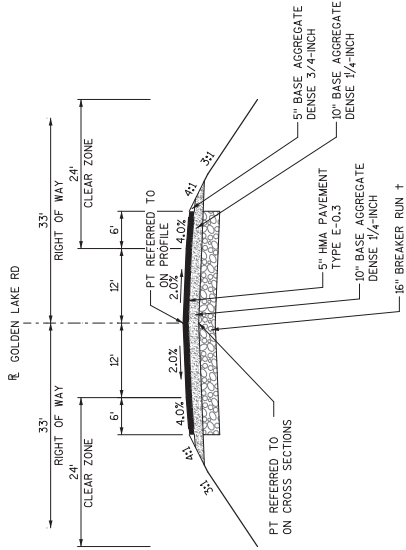
TYPICAL FINISHED SECTION GOLDEN LAKE ROAD

STA 504+84 TO 507+01 GOLDEN LAKE RD



TYPICAL FINISHED SECTION GOLDEN LAKE ROAD

STA 503+81 TO 504+84 LT GOLDEN LAKE RD
STA 504+35 TO 504+84 RT GOLDEN LAKE RD
STA 507+01 TO 507+32 GOLDEN LAKE RD



TYPICAL FINISHED SECTION GOLDEN LAKE ROAD

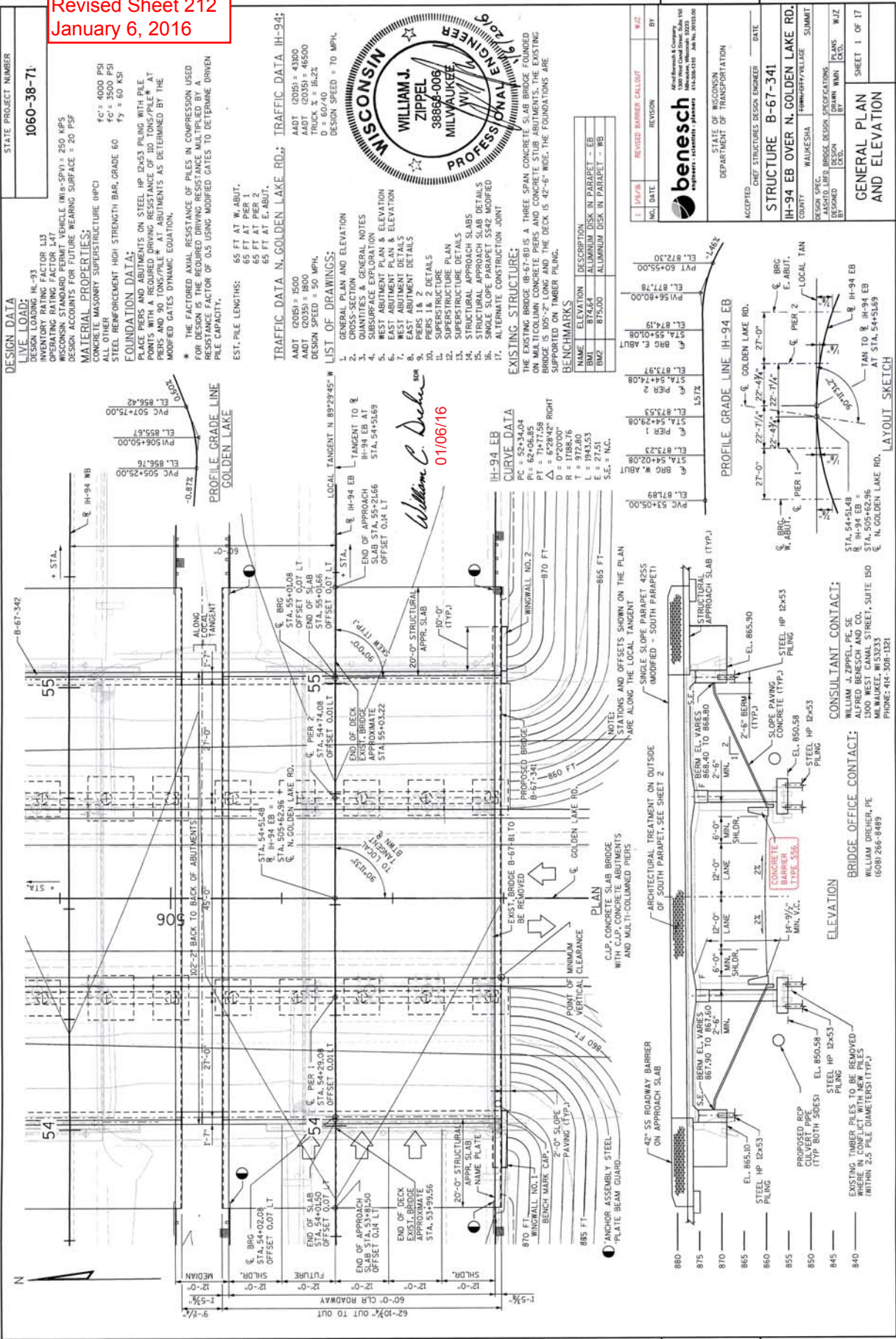
STA 501+50 TO 501+75 GOLDEN LAKE RD
STA 502+75 TO 503+81 LT GOLDEN LAKE RD
STA 507+32 TO 509+00 GOLDEN LAKE RD

Addendum No. 01
ID 1060-38-71
Revised Sheet 5
January 6, 2016

+ SEE RELIEF TRENCH DETAIL

| | | | |
|------------------------|----------------------|--------------------------------------------|----------------------|
| PROJECT NO: 1060-38-71 | COUNTY: WAUKESHA | PROPOSED TYPICAL SECTIONS GOLDEN LAKE ROAD | SHEET 5 |
| HWY: IH-94 | PLOT DATE: 7.30/2015 | PLOT NAME: imlnsky | WISDOT/CADD SHEET 42 |

Addendum No. 01
ID 1060-38-71
Revised Sheet 212
January 6, 2016



DESIGN DATA
 LIVE LOAD: HS-20
 IMPACT FACTOR: 1.15
 OPERATING RATING FACTOR: 1.17
 WISCONSIN STANDARD PERMIT VEHICLE (WB-SPV) = 250 KIPS
 DESIGN ACCOUNTS FOR FUTURE WEARING SURFACE = 20 PFS
 MATERIAL PROPERTIES:
 CONCRETE MASONRY SUPERSTRUCTURE (MPC)
 ALL OTHER
 STEEL REINFORCEMENT HIGH STRENGTH BAR, GRADE 60
 f_c' = 4000 PSI
 f_y = 50 KSI

FOUNDATION DATA:
 PILE CAPS AND ABUTMENTS ON STEEL HP 12x58 PILING WITH PILE
 CAPS AND ABUTMENTS ON CONCRETE PILING WITH PILE CAPS
 PERS AND 90 TONS/PILE AT ABUTMENTS AS DETERMINED BY THE
 MODIFIED GATES DYNAMIC EQUATION.

* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED
 FOR BRIDGE ABUTMENTS AND PIER FOUNDATIONS ARE BASED ON
 RESISTANCE FACTOR OF 0.9 USING MODIFIED GATES TO DETERMINE DRIVEN
 PILE CAPACITY.

EST. PILE LENGTHS:
 65 FT AT W. ABUT.
 65 FT AT PIER 2
 65 FT AT E. ABUT.

TRAFFIC DATA N. GOLDEN LAKE RD.: TRAFFIC DATA IH-94 EB
 AADT (2015) = 1500
 AADT (2035) = 1800
 AADT (2055) = 4300
 TRUCK PERCENT = 6.24
 DESIGN SPEED = 50 MPH

LIST OF DRAWINGS:
 1. GENERAL PLAN AND ELEVATION
 2. CROSS-SECTION GENERAL NOTES
 3. SUBSURFACE EXPLORATION
 4. WEST ABUTMENT PLAN & ELEVATION
 5. EAST ABUTMENT PLAN & ELEVATION
 6. WEST ABUTMENT DETAILS
 7. EAST ABUTMENT DETAILS
 8. PIERS 1 & 2
 9. PIERS 1 & 2 DETAILS
 10. SUPERSTRUCTURE PLAN
 11. SUPERSTRUCTURE DETAILS
 12. SUPERSTRUCTURE DETAILS
 13. STRUCTURAL APPROACH SLAB DETAILS
 14. SINGLE SLOPE PARAPET SS42 MODIFIED
 15. ALTERNATE CONSTRUCTION JOINT

EXISTING STRUCTURE:
 THE EXISTING BRIDGE (B-67-342) IS A THREE SPAN CONCRETE SLAB BRIDGE FOUNDED
 ON MULTICOLUMN CONCRETE PIERS AND CONCRETE STUB ABUTMENTS. THE EXISTING
 BRIDGE IS 105'-2" LONG AND THE DECK IS 42'-6" WIDE. THE FOUNDATIONS ARE
 SUPPORTED ON TIMBER PILING.

BENCHMARKS

| NAME | ELEVATION | DESCRIPTION |
|------|-----------|-------------------------------|
| BM1 | 874.64 | ALUMINUM DISK IN PARAPET - WB |
| BM2 | 875.00 | ALUMINUM DISK IN PARAPET - WB |

REVISIONS

| NO. | DATE | REVISION | BY |
|-----|---------|-------------------------|-----|
| 1 | 1/13/16 | REVISED BARRIER CALLOUT | WJZ |

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

ACCEPTED
 CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-67-341
 IH-94 EB OVER N. GOLDEN LAKE RD.

COUNTY WAUKESHA TOWNSHIP/VILLAGE SUMMIT

DESIGN SPEC. WISCONSIN BRIDGE DESIGN SPECIFICATIONS

RECORDED BY WJZ
 DRAWN BY WJZ

GENERAL PLAN AND ELEVATION

SHEET 1 OF 17

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

FILE # 083010.06101.010P&L.DWG

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

TRAFFIC DATA N. 89°29'45" W
 LOCAL TANGENT N. 89°29'45" W
 TANGENT TO IH-94 EB AT STA. 54+51.08

Addendum No. 01
ID 1060-38-71
Revised Sheet 229
January 6, 2016

STATE PROJECT NUMBER
1060-38-71

DESIGN DATA
LIVE LOAD:
 DESIGN LOADING HL-93
 INVENTORY RATING FACTOR 113
 DESIGN STANDARD FEMT VEHICLE (WB+SPV) 250 KPS
 DESIGN ACCOUNTS FOR FUTURE WEARING SURFACE = 20 PFS
MATERIAL PROPERTIES:
 CONCRETE MASSIVE SUPERSTRUCTURE (HPC)
 ALL OTHER
 STEEL REINFORCEMENT HIGH STRENGTH BAR, GRADE 60
 40' x 4000 PSI
 30' x 3500 PSI
 40' x 60 KSI
 fy = 60 KSI

FOUNDATION DATA:
 PILE CAPS AND ABUTMENTS ON STEEL HP 12X53 PILING WITH PILE
 POINTS WITH A REQUIRED DRIVING RESISTANCE OF 10 TONS/PILE * AT
 ALL PILE POINTS. ABUTMENT DIMENSIONS AS DETERMINED BY THE
 MODIFIED GATES DYNAMIC EQUATION.
 * THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED
 FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A
 RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN
 PILE CAPACITY.
 EST. PILE LENGTHS: 65 FT AT W. ABUT.
 65 FT AT PIER 1
 65 FT AT PIER 2
 65 FT AT E. ABUT.

TRAFFIC DATA IH-94;
 AADT 12051 = 4300
 TRUCK % = 16.50
 D = 60/40
 DESIGN SPEED = 70 MPH.

TRAFFIC DATA N. GOLDEN LAKE RD.;
 AADT 12051 = 1800
 TRUCK % = 16.50
 D = 60/40
 DESIGN SPEED = 50 MPH.

LIST OF DRAWINGS:
 1. GENERAL PLAN AND ELEVATION
 2. QUANTITIES & GENERAL NOTES
 3. SUBSURFACE EXPLORATION
 4. WEST ABUTMENT PLAN & ELEVATION
 5. EAST ABUTMENT PLAN & ELEVATION
 6. EAST ABUTMENT DETAILS
 7. PERS 1 & 2
 8. PERS 1 & 2 DETAILS
 9. SUPERSTRUCTURE PLAN
 10. SUPERSTRUCTURE DETAILS
 11. STRUCTURAL APPROACH SLAB
 12. STRUCTURAL APPROACH SLAB DETAILS
 13. SINGLE SLOPE PARAPET 4255
 14. ALTERNATE CONSTRUCTION JOINT

EXISTING STRUCTURES:
 THE EXISTING BRIDGE (B-67-342) IS A THREE SPAN CONCRETE SLAB BRIDGE FOUNDED
 ON MULTICOLUMN CONCRETE PIERS AND CONCRETE STUB ABUTMENTS. THE EXISTING
 BRIDGE IS 105'-2" LONG AND THE DECK IS 42'-5" WIDE WITH TEMPORARY WIDENING TO
 THE SOUTH. THE FOUNDATIONS ARE SUPPORTED ON TIMBER PILING.

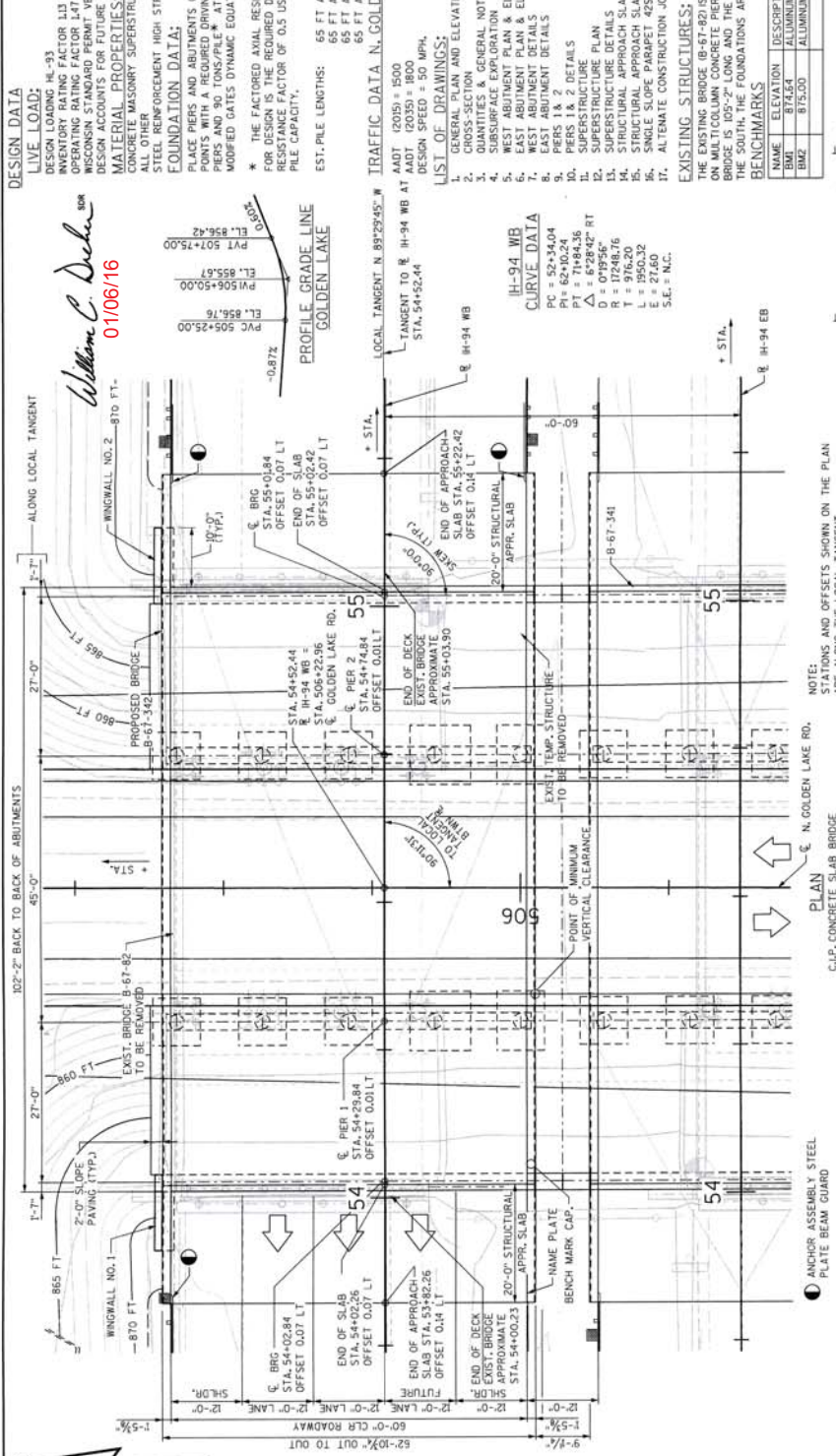
BENCHMARKS

| NAME | ELEVATION | DESCRIPTION |
|------|-----------|-------------------------------|
| BM1 | 874.54 | ALUMINUM DISK IN PARAPET - EB |
| BM2 | 875.00 | ALUMINUM DISK IN PARAPET - WB |

WISCONSIN
 WILLIAM J. ZIPPEL
 3888-006
 MILWAUKEE, WI
 PROFESSIONAL ENGINEER
 10/06/16

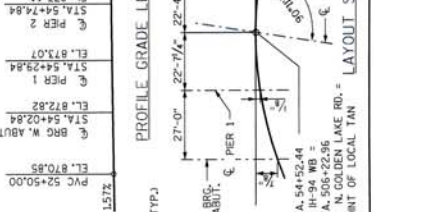
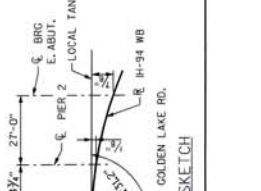
benesch
 STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 ACCEPTED
 CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-67-342
 IH-94 WB OVER N. GOLDEN LAKE RD.
 COUNTY WAUKESHA TOWNSHIP/VILLAGE SUMMIT
 DESIGN SPEC. WAUKESHA TOWNSHIP/VILLAGE SUMMIT
 ASSTD. LFRD. BRIDGE DESIGN SPECIFICATIONS
 DESIGNED BY: []
 DRAWN BY: []
 CHECKED BY: []
 W.J.Z. 1/6/17
 SHEET 1 OF 17
 GENERAL PLAN AND ELEVATION



REVISION TABLE

| NO. | DATE | REVISION | BY |
|-----|--------|-------------------------|-----|
| 1 | 1/6/16 | REVISED BARRIER CALLOUT | WJZ |



NOTE: STATIONS AND OFFSETS SHOWN ON THE PLAN ARE ALONG THE LOCAL TANGENT.

ANCHOR ASSEMBLY STEEL PLATE BEAM GUARD

CLIP CONCRETE SLAB BRIDGE WITH CLIP CONCRETE ABUTMENTS AND MULTI-COLUMNED PIERS

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 1608 266-9489

SCALE = 1/20
 FILE # 040100.9670342.00P/EA/CON