Madison Wisconsin	CITY ON CITY ENGL DEPARTMEN
INDEX OF SHEETS	PLAN OF PROP
SHEET NO.       1       TITLE         SHEET NO.       DI-D2       PROJECT OVERVIEW. MAPS         SHEET NO.       D3       TYPICAL SECTIONS & DETAILS         SHEET NO.       D4       CLEARING & GRUBBIBG DETAILS         SHEET NO.       ECI-EC2       EROSION CONTROL PLAN         SHEET NO.       PI-P6       STREET AND PATH PLAN & PROFILES         SHEET NO.       UI-U2       STORM SEWER PLAN & PROFILES         SHEET NO.       U3       STORM SEWER SCHEDULE         SHEET NO.       CHI-CH7       CHANNEL REALIGNMENT PLAN & CROSS SECTIONS	CO PORTAGE ROA CITY EASTPARK N
SHEET NO.WI-W2WATER PLAN & PROFILESHEET NO.TCI-TC2TRAFFIC CONTROL PLANSHEET NO.PMI-PM2PAVEMENT MARKING PLANSHEET NO.S1-S7EASTPARK MULTI-USE PATH BRIDGE PLANSHEET NO.S8-S11EASTLAWN MULTI-USE PATH BRIDGE PLANSHEET NO.X1-X28CROSS SECTIONS - PORTAGE RD & EASTPARK PAT	CI EASTLAW
CONVENTIONAL SIGNS         FIELD VERIFY ALL UTILITY LOCATIONS         GAS         STORM SEWER         SANITARY SEWER         WATER         OVERHEAD ELECTRIC         POWER POLE	
NOTES:	
ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS. SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 1.5%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%	

# F MADISON NEERING DIVISION NT OF PUBLIC WORKS POSED IMPROVEMENT

ONTRACT NO. 7613

D ASSESSMENT DISTRICT – 2016 PROJECT NO. 11094

MULTI-USE PATH & BRIDGE ITY PROJECT NO. 11785

'N PLAT MULTI–USE BRIDGE CITY PROJECT NO. 11338



FILE NAME: M:\DESIGN\Projects\11094\Streets\Details\11785EN-TitleSht.dgr

PUBLIC IMPROVEMENT PROJECT APPROVED DECEMBER 1, 2015 (PORTAGE ROAD) 63 JUNE 19, 2018 (EASTPARK PATH & BRIDGE & EASTLAWN BRIDGE) BY THE COMMON COUNCIL OF MADISON, WISCONSIN PUBLIC IMPROVEMENT DESIGN APPROVED BY: City Engine STREET & PATH DESIGNED BY: E-41148 MADISON GEOMETRICS 당 PAVEMENT MARKINGS DESIGNED BY: MARKS. WINTER E-39453 MADISO STORM SEWER DESIGNED BY: SCONG



₹

SCALE: 100.0000 SF / IN.



#### NOTES:

- 1) PLACE PREFABRICATED
- LOCATED AT 130 RUSTIC 2) SEE SPECIAL PROVISION
- PLANS, CONSTRUCTION
- 3) ACCESS THE CONSTRUCTION
- 4) COORDINATE ACCESS TO



	PORTAGE ROAD ASSMT DISTRICT - 2016 SHEET NO. PROJECT NO. 11094 D-2
	PROJECT OVERVIEW MAP NO.2 EASTLAWN PLAT MULTI-USE BRIDGE LOCATION
	CITY OF MADISON
MULTI-USE BF C DRIVE ON CI NS AND SHEE" SPECIFICATIO TION SITE FR O THE SITE WI	RIDGE ON EXISTING ABUTMENTS TY OF MADISON STORM WATER PARCEL. TS S-8 THRU S-11 FOR EASTLAWN PLAT BRIDGE ONS AND DETAILS. IOM GALILEO DRIVE RIGHT OF WAY. ITH: DANIEL DAY D'ONOFRIO KOTTKE, & ASSOCIATES (608) 833-5730



FILE NAME: M:\DESIGN\Projects\11094\Streets\Details\11094\_Typ Section D-2.dgn

DATE: 1/31/2019

		PORT	AGE ROAD PROJ	ASSM'T DIS ECT NO. 110	5TRICT - 2016 94	SHEET NO. D-3
			TYPIC	AL SECTION	IS & DETAILS	
		PORTA EASTP	GE ROAD ARK PATH	· / 1	CITY OF	MADISON
		LEGEND	_			
	1 POINT REFER	RED TO	ON PROFIL	E		
V)	2 2.0" HMA PAV	EMENT -	TYPE 4 MT	58-28 S (UPF	PER LAYER)	
λX	3 3.5" HMA PAV	EMENT -	TYPE 3 MT	58-28 S (LOV	VER LAYER)	
	4 6" GRADATIO	N 2 CRUS	SHED AGGF	REGATE BAS	E COURSE (UPF	PER LATER)
	5 6" GRADATIO	N 1 CRUS	SHED AGGF	REGATE BAS	E COURSE (LO	WER LAYER
	6 CONCRETE C	URB AND	OGUTTER,	TYPE A		
	7 FILL, INCIDEN	ITAL TO C	CURB & GU	TTER		
	8 6" TOPSOIL, S	SEED AND	D MATTING			
	9 5-INCH CONC	RETE SID	DEWALK			
	(10) 2" MINIMUM (	RANULA	R FILL (INC	IDENTAL TO	WALK)	
	(1) 1.75" HMA PA	VEMENT	TYPE 4 LT	58-28 S (UPF	PER LAYER - BI	(E PATH)
	12 1.75" HMA PA	VEMENT	TYPE 4 LT	58-28 S (LOV	VER LAYER - BI	KE PATH)
	13 8" CRUSHED	AGGREG	GATE BASE	COURSE, GI	RAD. NO. 2	
	* SEE CROSS SE SLOPES AND TO	CTION SH OP OF CL	HEETS FOR JRB ELEVA	CROSS TIONS.		
ΓFΔ	RTHWORK SUMMAR					
		<u>.</u>				
PO EX TO	RTAGE ROAD WIDE! CAVATION CUT PSOIL STRIPPING		584 CY 467 CY 210 CY	(PLAN QUA (PLAN QUA	NTITY) NTITY)	
	L BORROW	(603)	605 CY	(PLAN QUAN	ITITY)	

EASTPARK PATH EXCAVATION CUT TOPSOIL STRIPPING ESTIMATED UNDERCUT (EBS) FILL BORROW

882 CY (PLAN QUANTITY) 414 CY (PLAN QUANTITY) 220 CY 224 CY (PLAN QUANTITY)

CHANNEL REALIGNMENT EXCAVATION CUT

1440 CY (PLAN QUANTITY)

TOTALS:

EXCAVATION CUT = 3787 CY (PLAN QUANTITY INCLUDES TOPSOIL STRIPPING) EST. UNDERCUT = 430 CY UNCLASSIFIED EXC = 4217 CY

FILL BORROW = 829 CY (PLAN QUANTITY)



FILE NAME: M: NDESIGN/PROJECTS/11094/STREETS/DESIGN/11094EN-D-4 CLEARING & GRUBBING.DCN



FILE NAME: M:\DESIGN\Projects\11094\Streets\Design\11094EN-PnP## - Portage Rd EC.dgn

DATE: 1/31/2019



FILE NAME: M: NDESIGNNPROJECTSN11094NSTREETSNDESIGNN11094EN-PATH & CHANNEL EC.DGN





	PORTAGE ROAD ASSN	1'T DISTRICT - 2016	SHEET NO.					
	PROJECT N	P-2						
	PLAN AND PROFILE							
	PORTAGE ROAD	CITY OF N	ADISON					
905								
900								
895								
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885								
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875								
0.0								
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FILE NAME: M:\DESIGN\Projects\11094\Streets\DesIgn\11094EN-PnP## - Bike Path 3.dgn







	PORTAGE ROAD ASSI PROJECT N	M'T DISTRICT - 2016 JO. 11094	U-2
	PLAN /		
	PORTAGE ROAD	CITY OF	MADISON
905			
900			
895			
890			
885			
880			
875			
870			
865 9			
-			

# STORM SEWER SCHEDULE

#### **ALIGNMENT CODES:**

'CU'- CULVERT 'PR'- PORTAGE RD 'BP'- BIKE PATH

#### PROPOSED STORM STRUCTURES

PRC	POSED STORM ST	RUCTURES					PRO	<b>DPOSED S</b>	TORM PIF	PES							
STRUO NO.	C STATION LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I. G	DEPT	H NOTES	PIPE NO.	FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	PIPE LENGTH (FT)	PLAN LENGTH (FT)	SLOPE (%)	SIZE (DIA)	TYPE	NOTES
S-1	10'CU'+36.45 LT-0.00	CONCRETE COLLAR	-	871.87	-	PER S.D.D. 5.4.5; SEE SPEC. NOTE 1	P-1	S-1	S-2	871.87	872.08	42	42	0.50%	4'X6'	CBC	BID ITEM 90030
S-2	10'CU'+78.14 RT-0.00	CONCRETE COLLAR	-	872.08	-	PER S.D.D. 5.4.5; SEE SPEC. NOTE 1	P-2	S-2	S-3	872.08	872.15	14	14	0.50%	4'X6'	CBC	BID ITEM 90030
S-3	10'CU'+92.21 RT-0.00	CBC WINGWALL W/ RIP RAP APRON	-	872.15	-	FP; PER S.D.D. 5.5.1 AND 5.5.2	P-3	T-1	S-4	873.20	875.20	82	84	2.43%	18"	TYPE II STORM	1
S-4	52'PR'+27.10 RT-31.94	3'X3' SAS	879.38	875.20	4.18	R-1550-0054	P-4	S-4	S-5	875.20	875.74	73	76	0.74%	18"	TYPE II STORM	1
S-5	53'PR'+00.19 RT-21.45	3'X3' SAS	879.91	875.74	4.17	R-1550-0054	P-5	S-5	S-6	875.74	876.99	103	106	1.22%	18"	TYPE II STORM	1
S-6	54'PR'+02.17 RT-30.38	3'X3' SAS	881.17	876.99	4.18	R-1550-0054	P-6	S-6	S-7	876.99	877.33	50	53	0.68%	18"	TYPE II STORM	1
S-7	54'PR'+53.08 RT-26.50	3'X3' SAS	881.82	877.33	4.49	R-3067-7004-V	P-7	S-7	S-8	877.33	877.88	29	30	1.90%	18"	RCP	
S-8	54'PR'+82.51 RT-23.41	CONCRETE COLLAR	-	877.88	-	PER S.D.D. 5.4.4; SEE SPEC. NOTE 1	P-8	T-2	S-9	875.00	875.06	12	15	0.50%	12"	RCP	P
S-9	50'PR'+64.76 RT-49.43	H INLET	877.94	875.06	2.88	FP; R-3067-7004-V	P-9	S-10	S-11	880.03	880.36	33	33	1.00%	18"	RCP	
S-10	73'BP'+50.00 LT-16.00	18 INCH AE	-	880.03	-	PER S.D.D. 5.4.1; SEE SPEC. NOTE 2											P
S-11	73'BP'+50.00 RT-17.00	18 INCH AE	-	880.36	-	PER S.D.D. 5.4.1; SEE SPEC. NOTE 2											

#### UTILITY LINE OPENING (ULO)

NO.	STATION	(OFFSET)	TYPE
ULO-1	10'CU'+61.44	CL	FIBER
ULO-2	10'CU'+68.57	CL	ELECTRIC

## STORM STRUCTURE TAP

STORM STRUCTURE TAP						STORM STRUCTURE ADJUSTMENTS								
STRUC NO.	STRUC I.D.	STATION	LOCATION (OFFSET)	E.I.	ТҮРЕ	STRUC NO.	STRUC. I.D.	STATION	LOCATION (OFFSET)	EXISTING CASTIN	EXISTING TOC	PROP. CASTING TYPE	ADJ TOC ELEV	NOTES
T-1 T-2	P-1 AS 6622-008	10'CU'+51.62 50'PR'+71.86	LT-3.00 RT-35.96	873.20 875.00	SEE SPEC. NOTE 1 SEE SPEC. NOTE 1	ADJ-1 ADJ-2	AS 6721-004 AS 6622-008	55'PR'+71.00 50'PR'+71.86	RT-20.50 RT-35.96	R-1550-0054 R-1550-0054	883.83 878.03	R-3067-7004-V R-1689-0054	884.09 877.75	

STORM STRUCTURE REMOVAL					STORM PIPE REMOVAL								
STRUC NO.	STRUC ID	STRUC ID	LOCATION (OFFSET)	TYPE	NOTE	PIPE NO.	FROM STA (DS)	FROM LOCAT (OFFSET)	TI TO STA (US)	TO LOCATION (OFFSET)	PIPE LENC (FT)		
R-1 R-2	AE 6621-076 IN 6622-011	54'PR'+82.51 50'PR'+64.68	RT-23.41 RT-43.01	18-IN RCP AE W/ GATE H INLET	REMOVE & SALVAGE PER PLAN SET	RP-1	50'PR'+71.58	RT-43.74	R-2	-	6.66		

\_PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH NOTE: IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

#### STANDARD NOTES:

1) PLACE SEWER ELECTRONIC MARKER ABOVE STORM SEWER TAP AND BEND LOCATIONS 2) SEE CROSS SECTION SHEET X-7 FOR DETAILS

#### **STANDARD NOTES:**

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN - APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD. - TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's. - TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED. - ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED. - SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER. - ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT LAUREN STRIEGL OF CITY ENGINEERING AT (608) 266-4094, LSTRIEGL@CITYOFMADISON.COM, FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608) 264-9275. - INLETS LOCATED IN TYPE "H" CURB SHALL BE INSTALLED PER S.D.D. 5.7.27

PORTAGE RD ASSM'T DISTRICT - 2016	SHEET NO.
PROJECT NO. 11094	U-3

#### STORM SEWER SCHEDULE

CITY OF MADISON

GTH SIZE TYPE (DIA)

> 12" RCP



РГОТ

NAME

PLOT

DATE:

REV.

	PORTAGE ROAD ASSM'T DIS PROJECT NO. 1109	FRICT - 2016 94	SHEET NO. CH-1
	DETAIL (SCAL	.E = 1:8)	
	CHANNEL ARMORING/ RESTORATION DETAILS	CITY OF I	MADISON
1 MAX) TO TIE INTO EXIS OTTOM TO TOP):	TING GROUND		
IVE SEEDING FOR WEED IG CLASS II, TYPE C	Y AREAS MIX)		
ADE AS NECESSARY (3:1 STORE AS FOLLOWS (BC /ER 1: TOPSOIL /ER 2: SEED (AGGRESSIN /ER 3: EROSION MATTIN /ER 4: EROSION MATTIN	MAX) TO ELEVATION 878.0' 'TTOM TO TOP): /E SEEDING FOR WEEDY AREAS 3 CLASS I, TYPE B - ORGANIC 3 CLASS II, TYPE C	MIX)	
	2'		
	A		
DETAIL FOR ST	REAM SEGMENT 3		















FILE NAME: M:\DESIGN\Projects\11094\Water\DesIgn\11094WU-PnP\_W1\_Portage.dgn

SCALE:

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A

`	PORTAG PROJECT	E ROAD NO. 11094	SHEET NO. W-1
``\	WATER F	PLAN AND PROFILE	
	PORTAGE ROAD	CITY OF	MADISON
2110-30 AVID L ELDE JENNAL ELDE JENNAL	N1		
	3 6 - 6		
W W	W		
NAS -			
	AL AL	1	
LLIANT ENERGY	54223 DI LO		
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		895	
		890	
		885	
		880	
		875	
		870	
0 40		865	
	- <u>ci</u> 80 55	860 +00	



\\		PORTAGE ROAD SHEET NO PROJECT NO. 11094 W-2			SHEET NO. W-2	
	21+00	PLAN AND PROFILE				
		BIKE PATI	H - EAST SEC	GMENT		MADISON
	400 A-1		694 <sup>73</sup>	*		
			-			
			915			
			910			
			905			
			900			
			895			
			890			
			885			
			880			
0(C	20.7.02	99+	_ 875 - 72			





NAME



PLOT NAME



	Portage Road 11094	SHEET NO. PM1 of 2
	Pavement Marking Plan	
	CITY OF M	<b>JADISON</b>
l White ble Yellow e Skips, (2' Line, 6' Gap) I White 6-Inch Crosswalk, 18-Inch 24-Inch te Lane ft Arrow	Matchine	<u>ADISON</u>
	2 3 3 5 4 1 0 5 4 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	

	Cal	lout Description
		1 Pavement Marking Epoxy, 4-Inch Solid White
		2 Pavement Marking Epoxy, 4-Inch Double Yellow
		3 Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
		4 Pavement Marking Epoxy, 6-Inch Solid White
		Pavement Marking Epoxy, Crosswalk, 6-Inch
		7 Pavement Marking Epoxy, Continental Crosswalk, 18-Inch
		8 Pavement Marking Epoxy, Stop Line, 24-Inch
		9 Pavement Marking Epoxy, Symbol, Bike Lane
		0 Pavement Marking Epoxy, Symbol, Left Arrow
Matchline		

REV. DATE

PLOT NAME:

Portage Road 11094	

#### Pavement Marking Plan

CITY OF MADISON







FILE NAME : S:\PROJECTS\M68030 MADISON PEDESTRIAN BRIDGE-COTTAGE GROVE\CADD FILES\PORTAGE ROAD PEDESTRIAN BRIDGE\FINAL PLANS\1-PORTAGE ROAD GENERAL PLAN18.DWG LAYOUT : LAYOUT1

PLOT DATE : 1/29/2019 PLOT TIME : 1:05:00 PM PLOT BY : TOM ROMENESKO



BODY



NOTES:

 $\ast$  DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

ORIENT SCREEN SO SLOTS ARE VERTICAL.

THE RODENT SCREEN, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SCREEN SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN TO THE EXPOSED ENDS OF THE PIPE UNDERDRAIN. THE SCREEN SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



![](_page_30_Figure_9.jpeg)

NUMBER	ITEM DESCRIPTION	UNIT	TOTALS
20230	HEAVY RIPRAP	TONS	100
20233	RIPRAP FILTER FABRIC, TYPE HR	SY	100
90000	PREFABRICATED STEEL STRUCTURE FURNISHED AND INSTALLED - EASTPARK PATH BRIDGE - TYPE H-10 LOADING	LS	1
90001	REINFORCED CONCRETE BRIDGE ABUTMENTS AND WINGWALLS	LS	1
90002	PILING STEEL HP 10-INCH X 42 LB	LF	200
90003	STEEL RAILING APPROACHES	LF	40
90004	RAILING CONCRETE FOOTING	EA	4
90005	REINFORCED CONCRETE APPROACH SLAB	SY	25
90006	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	50

PLOT DATE PLOT TIME 1/29/2019 1:05:08 PM

TOM ROMENESKO PLOT BY :

![](_page_31_Figure_0.jpeg)

TOM ROMENESKO

PLOT BY :

![](_page_32_Figure_0.jpeg)

![](_page_33_Figure_0.jpeg)

- TWO ABU	TMENTS SHOWN	neyors - Architects
GTH BEND BAR	LOCATION	le Se
2         X         BO           -3         X         BO           10         BO           -7         X         BO           -5         X         BO           -6         X         X           -0         BO           -11         BO	DY - VERT. DY - VERT BACKWALL DY - VERT ENDS DY - VERT PAVING BLOCK DY - VERT ENDS TOP IGS - VERT F.F. & B.F. DY - HORIZ F.F. DY - HORIZ B.F.	
-4         X         Win           -2         BA           -3         Win           -7         Win           -1         Win           10         X           -10         X           0F         A           OF         A           OF         A	$\begin{array}{r} \text{IGS} &= \text{HORIZ} = \text{B.F.} \\ \text{CKWALL} & \text{PAVING} \text{ BLOCK} &= \text{HORIZ.} \\ \text{IGS} &= \text{HORIZ} &= \text{F.F.} & \text{B.F.} \\ \text{IGS} &= \text{HORIZ} &= \text{F.F.} \\ \text{IGS} &= \text{HORIZ} &= \text{F.F.} \\ \end{array}$	560 Sunrise Drive Spring Green, WI 53588 phone: 608-588-7484 fax: 608-588-9322 тись восность те всеме нар основы исслеоза некен ала и истинент ог сачится з ти е ясон ог личи. Акосится вкалется, ист. на и бат в и изго и мноце ов и мат читноит явся чист литкицатом ог ячец. Associate внаятеля, и
SHALL BE EPOXY CO	OUT TO OUT OF	
FOR BAR IS AN AVER E USED FOR BAR WE TABLE FOR ACTUAL	RAGE LENGTH AND IGHT CALCULATIONS. LENGTHS.	'idge
		<u>س</u>
NO. REQ'D.		
VARIES 4'-10" TO 7'-7"	$ \begin{array}{c}                                     $	Eastpark Multi-Use Pat Madison, WI
	A508	Date 1/29/2019
OTES	N OMITTED FOR CLARITY, SEE THIS ARS. NG MAY BE ADJUSTED TO MISS	Date Revision Drawing Name Abutment Details
.r FRONT FACE		Sheet No.
.r. — BAUK FAUE.		5 of 7 Jewell Project Number M68030

![](_page_34_Figure_0.jpeg)

PLOT SCALE : 1" =	1'
-------------------	----

<b>JE WELL</b> associates engineers, inc. Engineers - Surveyors - Architects
560 Sunrise Drive Spring Green, WI 53588 phone: 608-588-7484 fax: 608-588-9322
THIS DOCUMENT, THE IDEA AND DESIGNS INCORPORATED HEERIE AS IN INSTRUMENT OF SERVICE, IS THE PROPERTY OF INVELL ASSOCIATES ENGINEERS, INC. AND IS NOT TO ANTHORIZATION OF JEWELL ASSOCIATES ENGINEERS, INC.
Eastpark Multi-Use Path Bridge Madison, WI
1/29/2019
• • • • • • • • • • • • • • • • • • • •
Date Revision Drawing Name Appoach Slab Destroit -
Date Revision Drawing Name Appoach Slab Details
Date Revision Drawing Name Appoach Slab Details S-6 Sheet No.

![](_page_35_Figure_0.jpeg)

![](_page_35_Figure_1.jpeg)

MASONRY.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL PLATES. BARS. AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

SEALER.

![](_page_35_Figure_11.jpeg)

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÷.

%" Ø X 8" LONG-HEX BOLTS WITH NUT & WASHER

![](_page_35_Picture_16.jpeg)

S: \PROJECTS\M68030 MADISON PEDESTRIAN BRIDGE-COTTAGE GROVE\CADD FILES\PORTAGE ROAD PEDESTRIAN BRIDGE\FINAL PLANS\ABUTMENTS.DWG RAILING

FILE NAME LAYOUT :

RAILING BID ITEM SHALL BE "STEEL RAILING APPROACHES", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN. CONCRETE FOOTING FOR RAILING SUPPORT OFF THE BRIDGE WILL BE PAID FOR AS "RAILING CONCRETE FOOTING" AND SHALL INCLUDE DRILLING HOLE, PROVIDING AND PLACING REINFORCEMENT BARS AND CONCRETE

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT AND SHALL BE GALVANIZED.

CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT

ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHOULD BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQ'D. TO FACILITATE GALVANIZING AND DRAINAGE

![](_page_35_Figure_27.jpeg)

![](_page_35_Figure_28.jpeg)

![](_page_36_Figure_0.jpeg)

REV. DA

![](_page_37_Figure_0.jpeg)

PLOT DATE : 12/4/2018 PLOT TIME : 4:18:28 PM

![](_page_38_Figure_0.jpeg)

![](_page_38_Figure_1.jpeg)

![](_page_38_Figure_4.jpeg)

### TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTALS
90003	STEEL RAILING APPROACHES	LF	40
90004	CONCRETE RAILING FOOTING	EA	2
90007	PREFABRICATED STEEL STRUCTURE FURNISHED AND INSTALLED - EASTLAWN PLAT BRIDGE - TYPE H-5 LOADING	LS	1

![](_page_39_Figure_0.jpeg)

![](_page_39_Figure_1.jpeg)

NOTES

ALL PLATES. BARS. AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT AND SHALL BE GALVANIZED.

SEALER.

![](_page_39_Figure_9.jpeg)

RAILING BID ITEM SHALL BE "STEEL RAILING APPROACHES", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN. CONCRETE FOOTING FOR RAILING SUPPORT OFF THE BRIDGE WILL BE PAID FOR AS "RAILING CONCRETE FOOTING" AND SHALL INCLUDE DRILLING HOLE, PROVIDING AND PLACING REINFORCEMENT BARS AND CONCRETE MASONRY. "RAILING CONCRETE FOOTING" AT EAST ABUTMENT ONLY.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT

ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHOULD BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQ'D. TO FACILITATE GALVANIZING AND DRAINAGE

![](_page_39_Figure_20.jpeg)

![](_page_40_Figure_0.jpeg)

![](_page_40_Figure_3.jpeg)

![](_page_41_Figure_0.jpeg)

DATE: 8/14/2019

![](_page_41_Figure_3.jpeg)

![](_page_42_Figure_0.jpeg)

DATE: 8/14/2019

![](_page_42_Figure_3.jpeg)

![](_page_43_Figure_0.jpeg)

![](_page_43_Figure_3.jpeg)

![](_page_44_Figure_0.jpeg)

PLO

![](_page_45_Figure_0.jpeg)

![](_page_45_Figure_3.jpeg)

![](_page_46_Figure_0.jpeg)

![](_page_46_Figure_3.jpeg)

DATE: 2/1/2019

![](_page_47_Figure_0.jpeg)

![](_page_48_Figure_0.jpeg)

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![](_page_49_Figure_0.jpeg)

![](_page_49_Figure_3.jpeg)

![](_page_50_Figure_0.jpeg)

![](_page_50_Figure_3.jpeg)

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DATE: 2/1/2019

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![](_page_52_Figure_0.jpeg)

DATE: 2/1/2019

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![](_page_53_Figure_0.jpeg)

![](_page_53_Figure_3.jpeg)

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![](_page_56_Figure_0.jpeg)

![](_page_56_Figure_3.jpeg)

![](_page_57_Figure_0.jpeg)

![](_page_58_Figure_0.jpeg)

![](_page_58_Figure_3.jpeg)

![](_page_59_Figure_0.jpeg)

![](_page_59_Figure_3.jpeg)

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DATE: 2/1/2019

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![](_page_61_Figure_0.jpeg)

![](_page_62_Figure_0.jpeg)

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DATE: 2/1/2019

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![](_page_63_Figure_0.jpeg)

![](_page_63_Figure_3.jpeg)

![](_page_64_Figure_0.jpeg)

![](_page_64_Figure_3.jpeg)

![](_page_65_Figure_0.jpeg)

DATE: 2/1/2019

![](_page_66_Figure_0.jpeg)

![](_page_67_Figure_0.jpeg)

![](_page_67_Figure_3.jpeg)