SHEET SCHEDULE

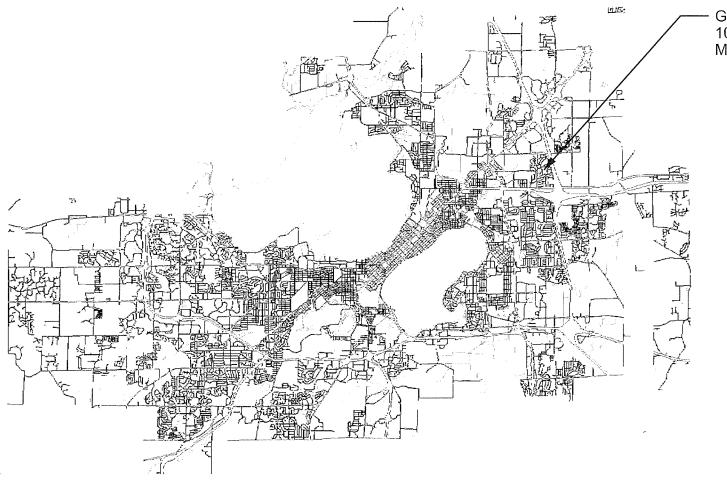
1.1 1.2 PROJECT LOCATION AND SITE ACCESS DEMOLITION AND PROTECTION PLAN

1.3 1.4 1.5 GRADING AND EROSION CONTROL PLAN DESIGN COMPUTATIONS

SHEETS 1.0-R1.7: ENGINEERING'S STAMPED DRAWINGS OF ICON HX28TS-P5 SHELTER



2019 GLACIER HILL PARK SUN SHELTER INSTALLATION MUNIS NO. 19033-51-140



GLACIER HILL PARK 1018 GLACIER HILL DRIVE MADISON, WI 53704

City of Madison Department of Public Works **PARKS DIVISION**

City-County Building, Suite 104 210 Martin Luther King, Jr. Blvd. Madison, WI 53703

play MADISON PARKS



2019 GLACIER HILL PARK SUN SHELTER INSTALLATION

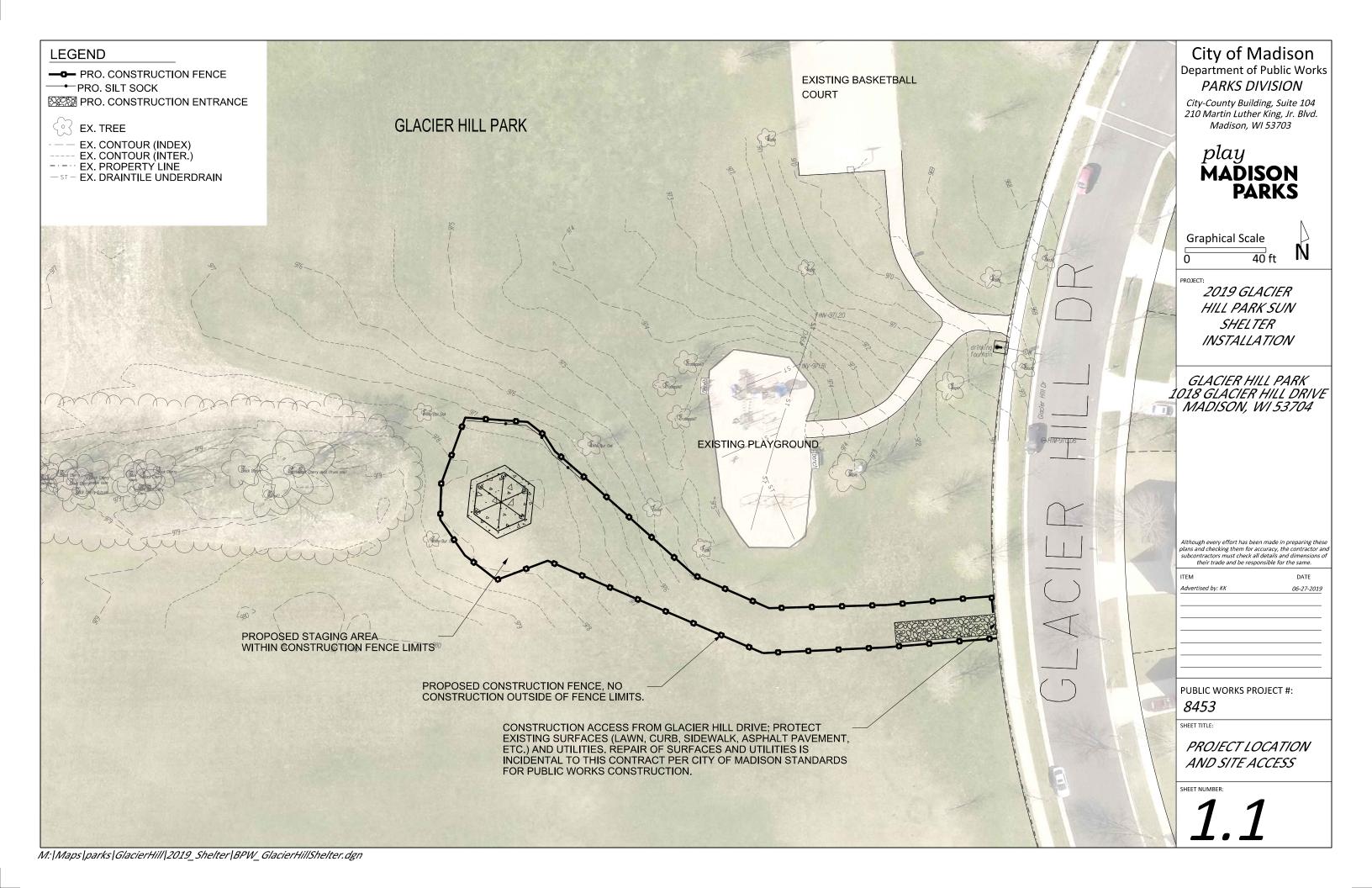
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors flust check all details and dimensions of their trade and be responsible for the same.

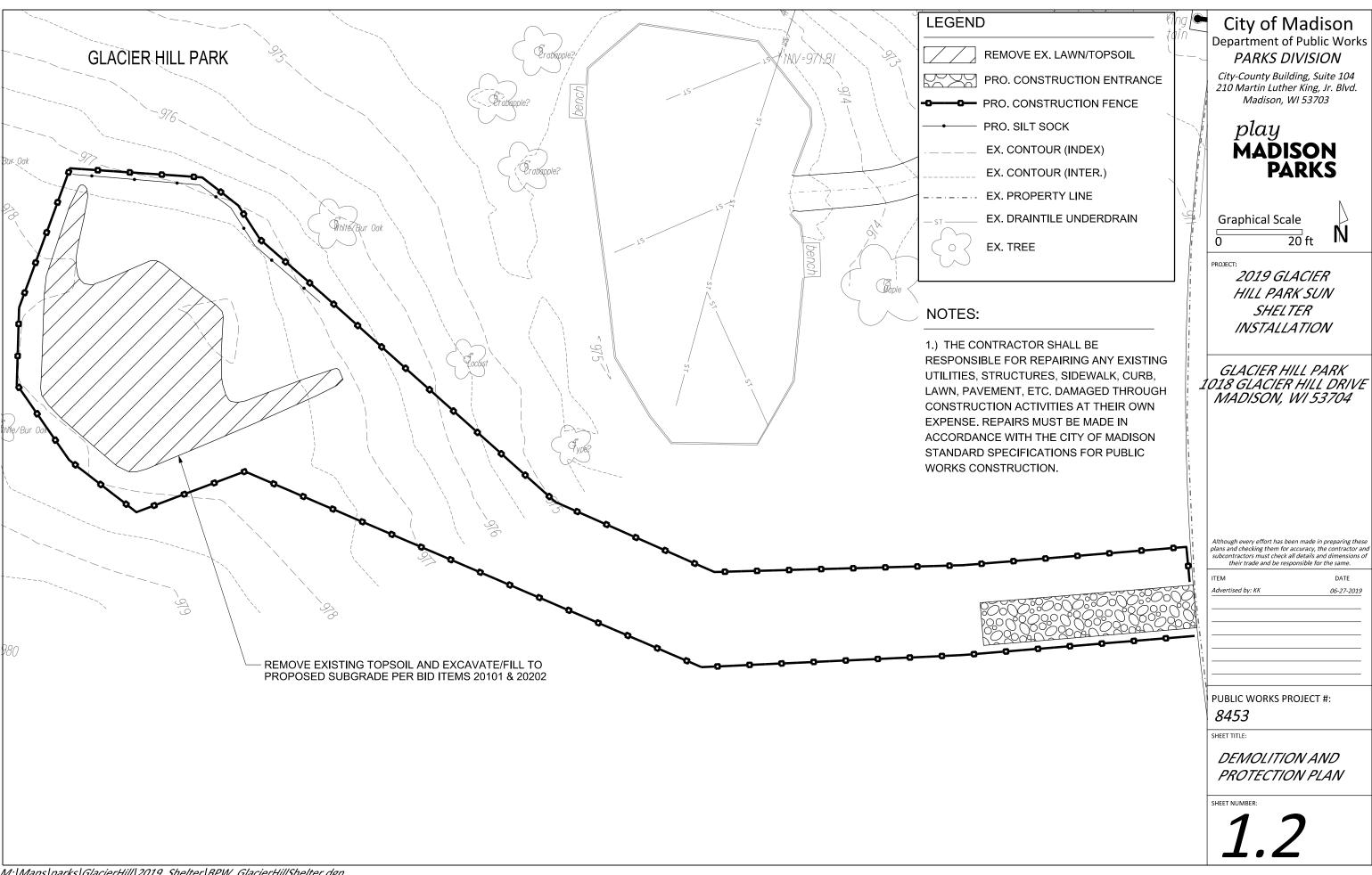
ITEM	DATE			
Advertised by: KK	06-27-2019			

PUBLIC WORKS PROJECT #: *8453*

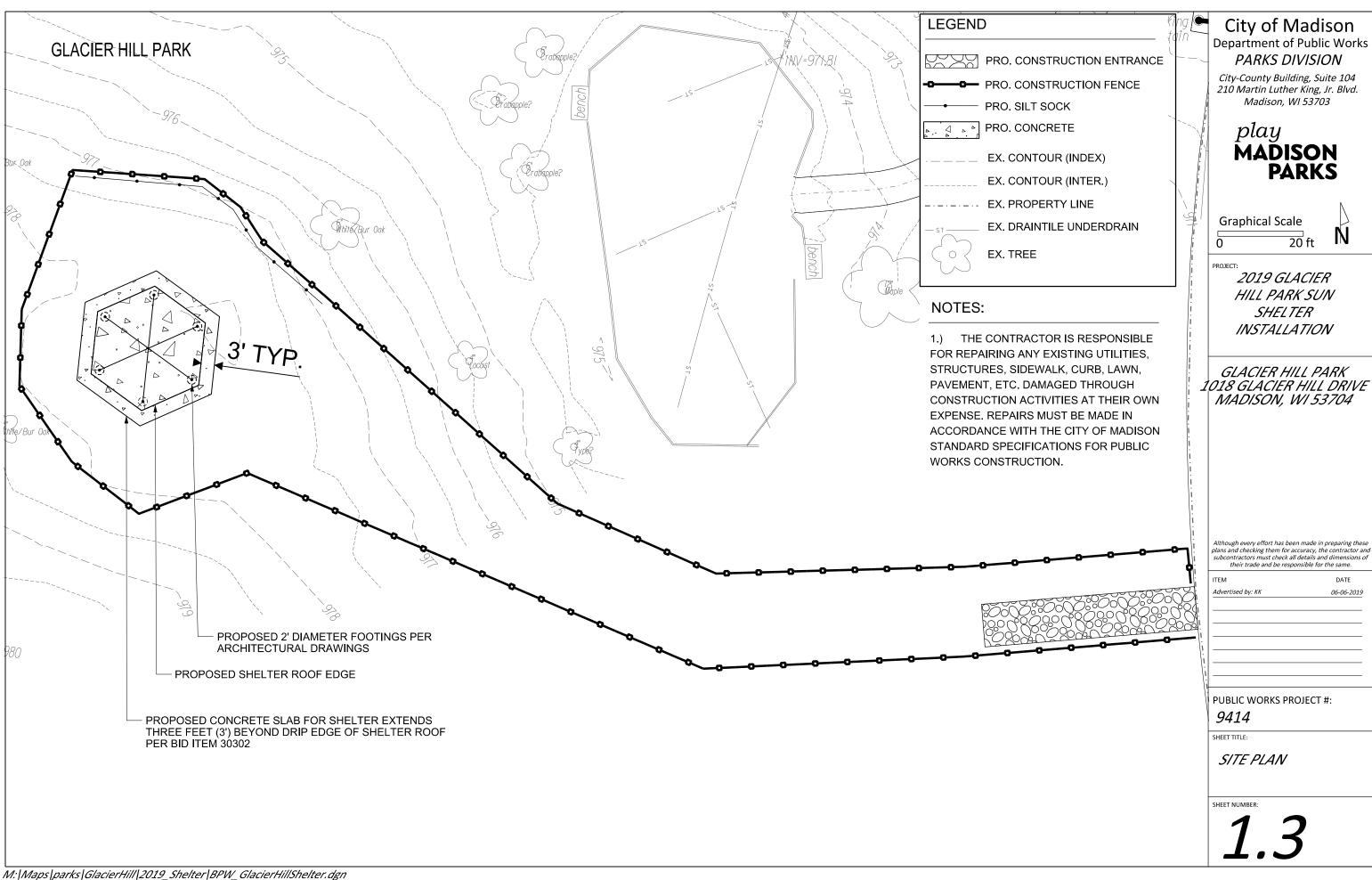
SHEET TITLE:

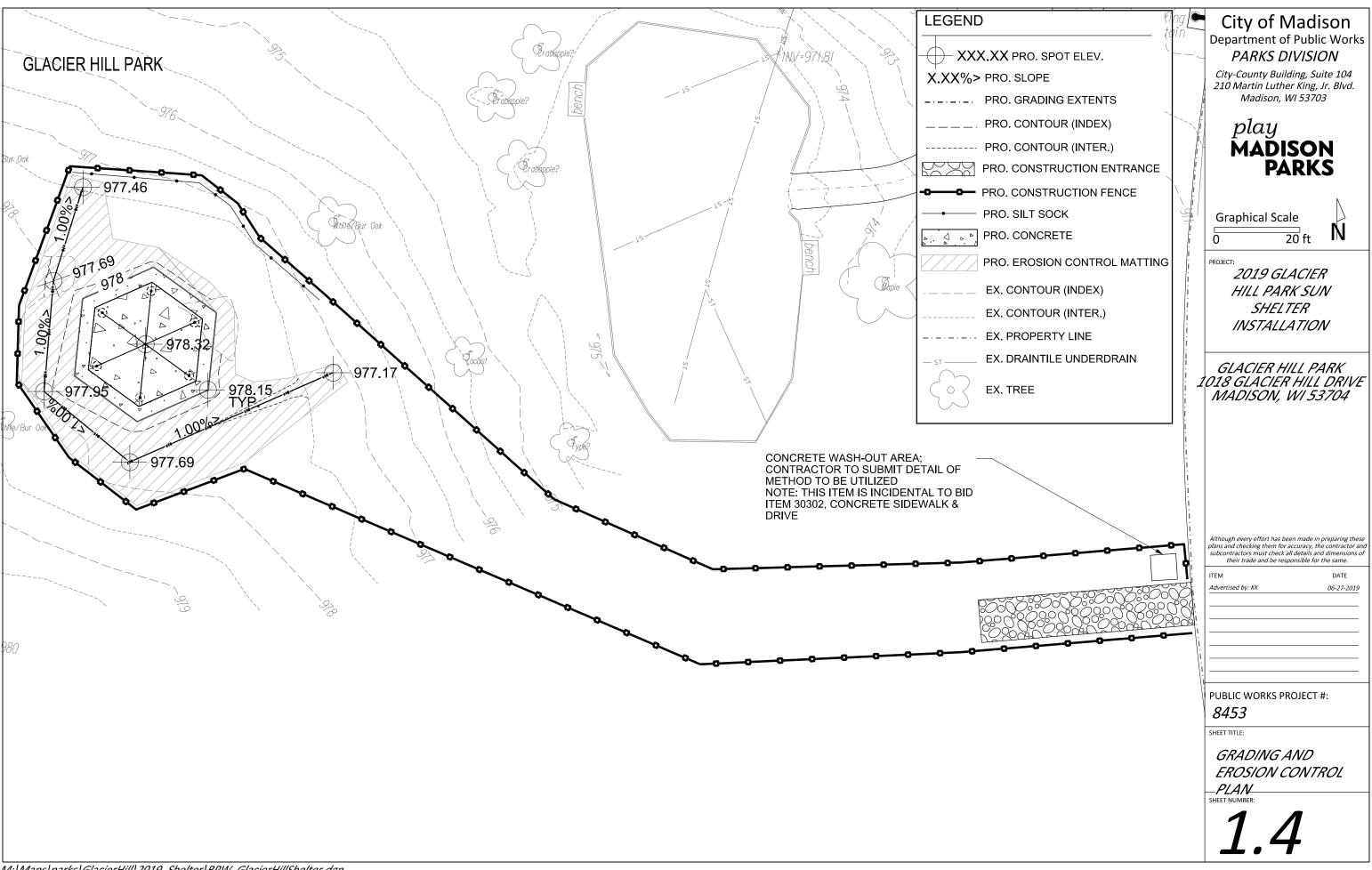
SHEET NUMBER:





M:|Maps|parks|GlacierHill|2019_Shelter|BPW_GlacierHillShelter.dgn





M:|Maps|parks|GlacierHill|2019_Shelter|BPW_GlacierHillShelter.dgn

City of Madi:	son, WI Parks Div									
Date Revised										
Notes:										
Positive volu	mes are cuts, negative volum	nes are fills.								
Not all parts	of all surface models (Digital	Terrain Models) are used for	or computation	s or intended	d for actua	l construction.				
Existing	GlacHill_Survey2018-10-22.	dtm								
Proposed	Pro1.dtm									
Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfac- tored volume (cu ft)	Unfac- tored volume (cu yd)	Expan- sion Factor (%)	Factored (Uncom- pacted) Volume (cu yd)
Grass to										
Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	850	0.50	425	15.7	0%	15.7
Grass to	Topodii Excuvate	Cut subsoil to proposed	100	TI/ G	000	0.00	720	10.7	070	10.7
	Subsoil Excavate	subgrade	Ex-6in	Pro-13in	850	varies	238	8.8	0%	8.8
Grass to		Fill subsoil to proposed								
Concrete	Subsoil Place	subgrade	Ex-6in	Pro-13in	850	varies	0	0.0	0%	0.0
Grass to	Gravel (for Pavement)									
Concrete	Place	Place 6in gravel base	n/a	n/a	850	-0.50	-425	-15.7	0%	-15.7
Grass to										
Concrete	Concrete Place	Place 7in concrete	n/a	n/a	850	-0.58	-493	-18.3	0%	-18.3
Grass to										
Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1108	0.50	554	20.5	0%	20.5
Grass to	Outro d'I Formanta	Cut subsoil to proposed	E	D	4400		74	0.7	00/	0.7
Grass	Subsoil Excavate	subgrade	Ex-6in	Pro-6in	1108	varies	74	2.7	0%	2.7
Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	1108	varies	-55	-2.0	0%	-2.0
Grass to	Oubson Flace	subyrau c	LA-OIII	FIO-OIII	1100	varies	-55	-2.0	0 70	-2.0
01 033 10	Topsoil Place	Place 6in topsoil	n/a	n/a	1108	-0.50	-554	-20.5	0%	-20.5

Glacier Hill Park Shelter Calculations				
City of Madison, WI Parks Division				
Date Revised:	5/23/2019			
Dervied from more detailed s	preadsheet available from Parks Division			
Glacier Hill Park Sun Shelte	Glacier Hill Park Sun Shelter Computation Summary			
Positive volumes are cuts (material available), negative volumes are fills (material needed)				
Row Labels	Sum of Factored (Uncom-pacted) Volume (cu yd)			
Concrete Place	-18.3			
Gravel (for Pavement) Place	-15.7			
Subsoil Excavate	11.5			
Subsoil Place	-2.0			
Topsoil Excavate	36.3			
Topsoil Place	-20.5			
Grand Total	-8.8			

Reorganized into bid table items			
Bid Item	Quantity	Units	Relation to Table Above
	_		= Subsoil Excavate +
			Topsoil Excavate and 6 CY
			allowance for concrete
20101 Excavation Cut	54	CY	footings
			= difference of Subsoil
20202 Fill Borrow	9	CY	Place & Subsoil Excavate
20221 Topsoil	123	SY	= (Topsoil Place)/167
40102 Crushed Aggregate Base Course			= (Gravel Place) * -2
Gradation No. 2	31	tons	ton/cubic yard

City of Madison Department of Public Works PARKS DIVISION

City-County Building, Suite 104 210 Martin Luther King, Jr. Blvd. Madison, WI 53703

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PROJECT.

2019 GLACIER HILL PARK SUN SHELTER INSTALLATION

GLACIER HILL PARK 1018 GLACIER HILL DRIVE MADISON, WI 53704

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Advertised by: KK	06-27-2019

PUBLIC WORKS PROJECT #: 8453

SHEET TITLE:

DESIGN COMPUTATIONS

SHEET NUMBER

1.5



JOB NUMBER: 6145

JOB NAME: GLACIER HILLS PARK

JOB LOCATION: MADISON, WI

REVISION: A

ROOF

A - INITIAL SUBMITTAL REVISION (JMD 4/26/2019)

Shelter Systems Inc

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> 616 396 0919 800.748.0985 616.396.0944 FX

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DRAWN BY:

jerem y DATE:

4/26/2019

JOB NO.: 6145

REVISION:

BUILDING TYPE:

HX28TS-P5

PROJECT NAME:

GLACIER HILLS PARK

MADISON, WI

SHFFT

TABLE OF CONTENTS

1.0 COVER SHEET

2.0 ELEVATION

3.0 ANCHOR BOLT LAYOUT 4.0 FRAME LAYOUT

5.0-5.1 FRAME CONNECTIONS

6.0 T&G ROOF LAYOUT

7.0 STANDING SEAM ROOF LAYOUT R1.0-R1.7 ROOF DETAILS

DESIGN LOADS

CODE: 2015 INTERNATIONAL BUILDING CODE

TOTAL DEAD: 10.10 P.S.F. FRAME DEAD: 4.10 P.S.F. ROOF DEAD: 3.50 P.S.F. COLLATERAL DEAD: 2.50 P.S.F. ROOF LIVE LOAD: 20.00 P.S.F. GROUND SNOW LOAD: 30.00 P.S.F. ROOF SNOW LOAD: 25.20 P.S.F. WIND SPEED: 115.00 M.P.H.

EXPOSURE: C

SEISMIC USE GROUP: I SEISMIC SITE CLASS: D

SEISMIC DESIGN CATEGORY: A

SEISMIC ANALYSIS: SIMPLIFIED

NOTES

CONNECTION BOLTS

MATERIALS (ASTM DESIGNATION) TUBE STEEL (HSS HOLLOW STRUCTURAL SECTION) À-500 GRADE B STRUCTURAL STEEL PLATE A - 992ROOF PANELS (STEEL) A - 36ANCHOR BOLTS A - 446

F1554 GRADE 55 A - 325

ALL WELDING CONFORMS TO THE LATEST EDITION OF AWS D1.1 OR D1.3 AS REQUIRED. ALL WELDING IS PERFORMED BY AWS CERTIFIED WELDERS.

IF THESE DRAWINGS ARE SEALED, THE SEAL APPLIES ONLY TO THE MATERIALS SUPPLIED BY ICON SHELTER SYSTEMS INC. AND IS NOT INTENDED AS THE SEAL OF THE ENGINEER OF RECORD FOR THE ENTIRE PROJECT.

DUE TO STANDARDIZED FABRICATION PARTS SHOWN MAY BE UPGRADED. REFER TO THE SHIPPING BILL OF MATERIALS FOR POSSIBLE SUBSTITUTIONS.

ICON SHELTER SYSTEMS INC. RECOMMENDS THAT THE PRIMARY FRAMING INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM OF FIVE (5) YEARS OF DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.

HIGH STRENGTH BOLTING

ALL HIGH STRENGTH BOLTS ARE A-325 BOLTS WITH HEAVY HEX NUTS. THE BOLTS ARE TO BE INSTALLED UTILIZING THE "SPECIFICATION FOR STRUCTURAL JOINTS ASTM A325 OR A490 BOLTS" (6/30/2004) AS PREPARED BY RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) FOR THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). THE BOLTS SHALL BE INSTALLED AS SNUG TIGHTENED WHICH IS DEFINED AS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE PLIES INTO FIRM CONTACT, WHICH IS THE CONDITION WHEN THE PLANES OF CONTACT BETWEEN TWO PLIES ARE SOLIDLY SEATED AGAINST EACH OTHER, BUT NOT NECESSARILY IN CONTINUOUS CONTACT WITH UTILIZATION OF THE SNUG TIGHTENING METHOD, NO WASHERS ARE REQUIRED.

ALL CONNECTIONS ARE BEARING TYPE CONNECTIONS UNLESS NOTED OTHERWISE. IT IS THE RESPONSIBILITY OF THE INSTALLER TO INSURE PROPER TIGHTNESS.

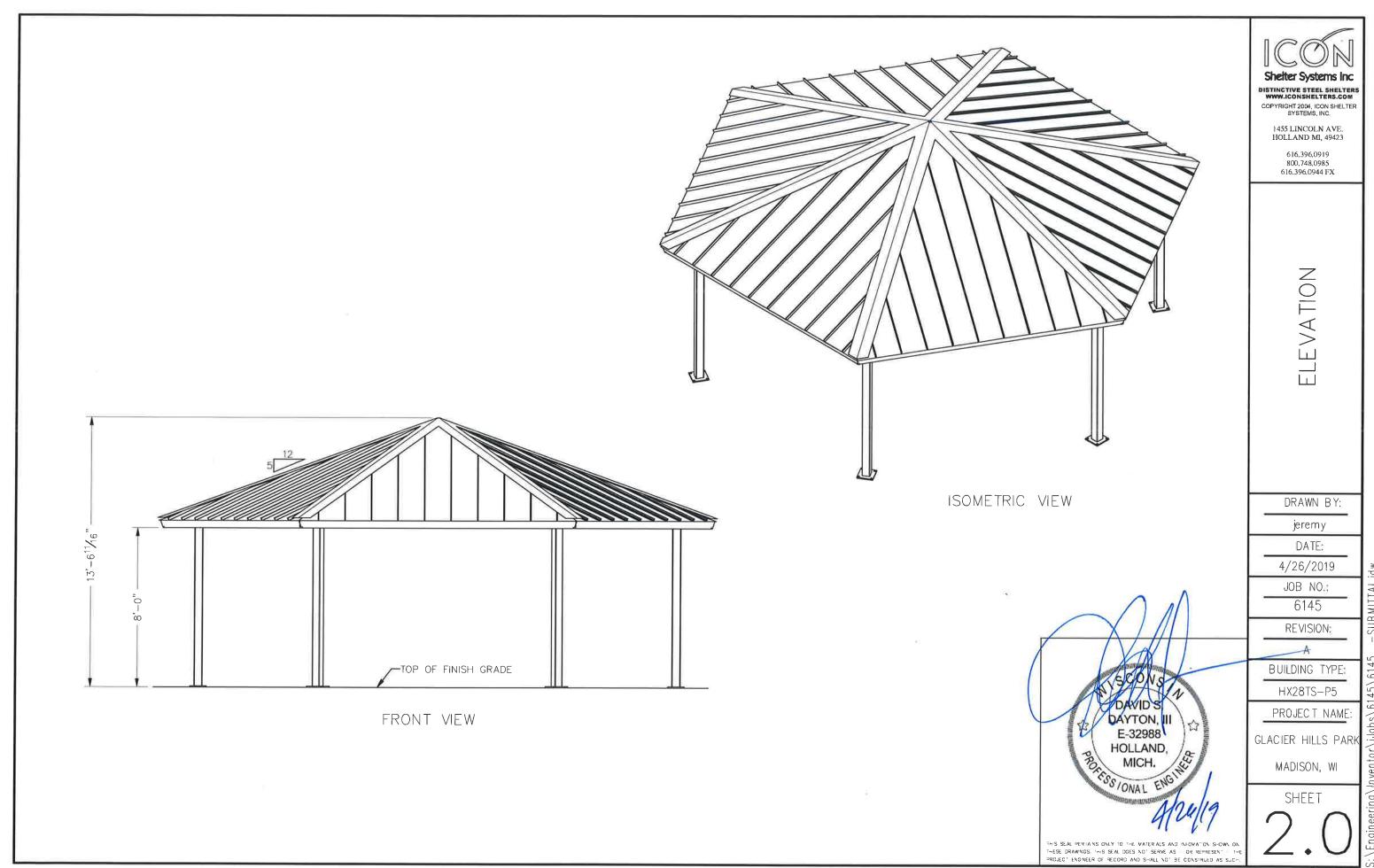
PROPER ERECTION OF THE FRAMING MEMBERS REQUIRES THE MAIN COLUMNS TO BE PLUMB & SQUARE. COLUMNS, RAFTER, AND TIE BEAM CONNECTIONS MUST BE TIGHTENED BEFORE INSTALLING THE PURLINS. PURLINS MUST BE PARALLEL TO THE TIE BEAMS AND EAVE BEAMS.

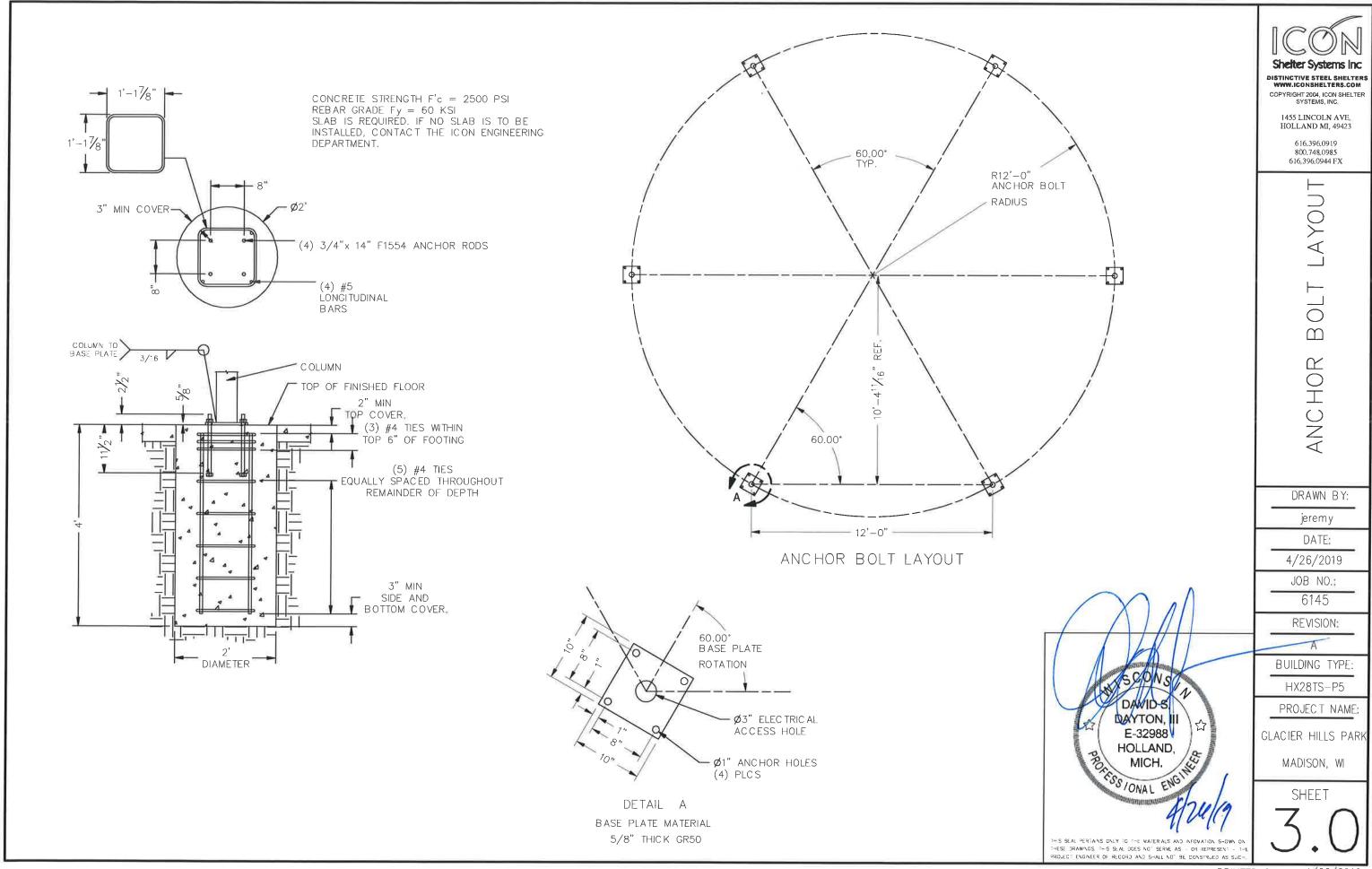
FABRICATOR APPROVALS

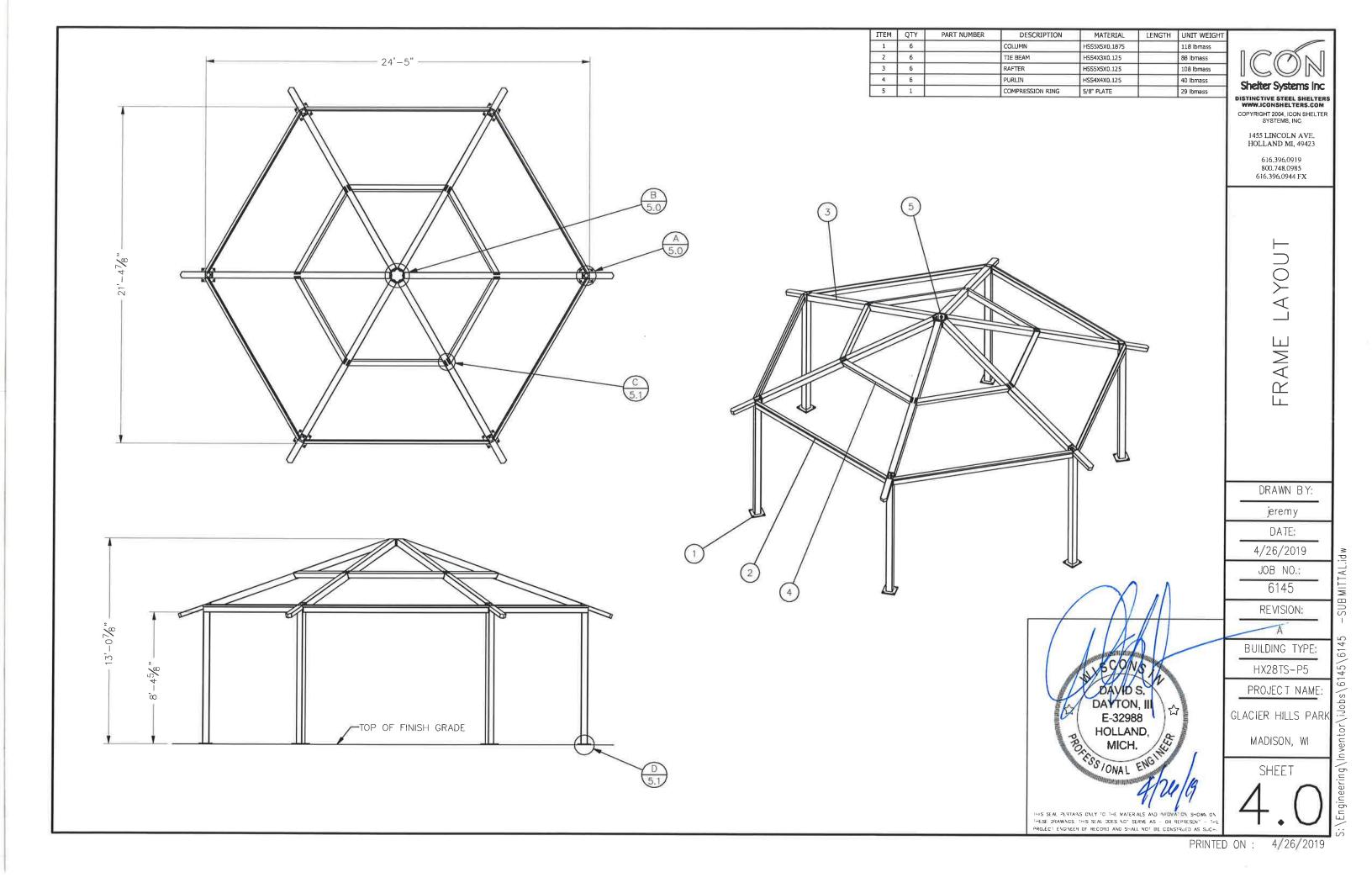
CLARK COUNTY STEEL FABRICATOR NUMBER: 707 CITY OF LOS ANGLES FABRICATOR NUMBER: FB03254

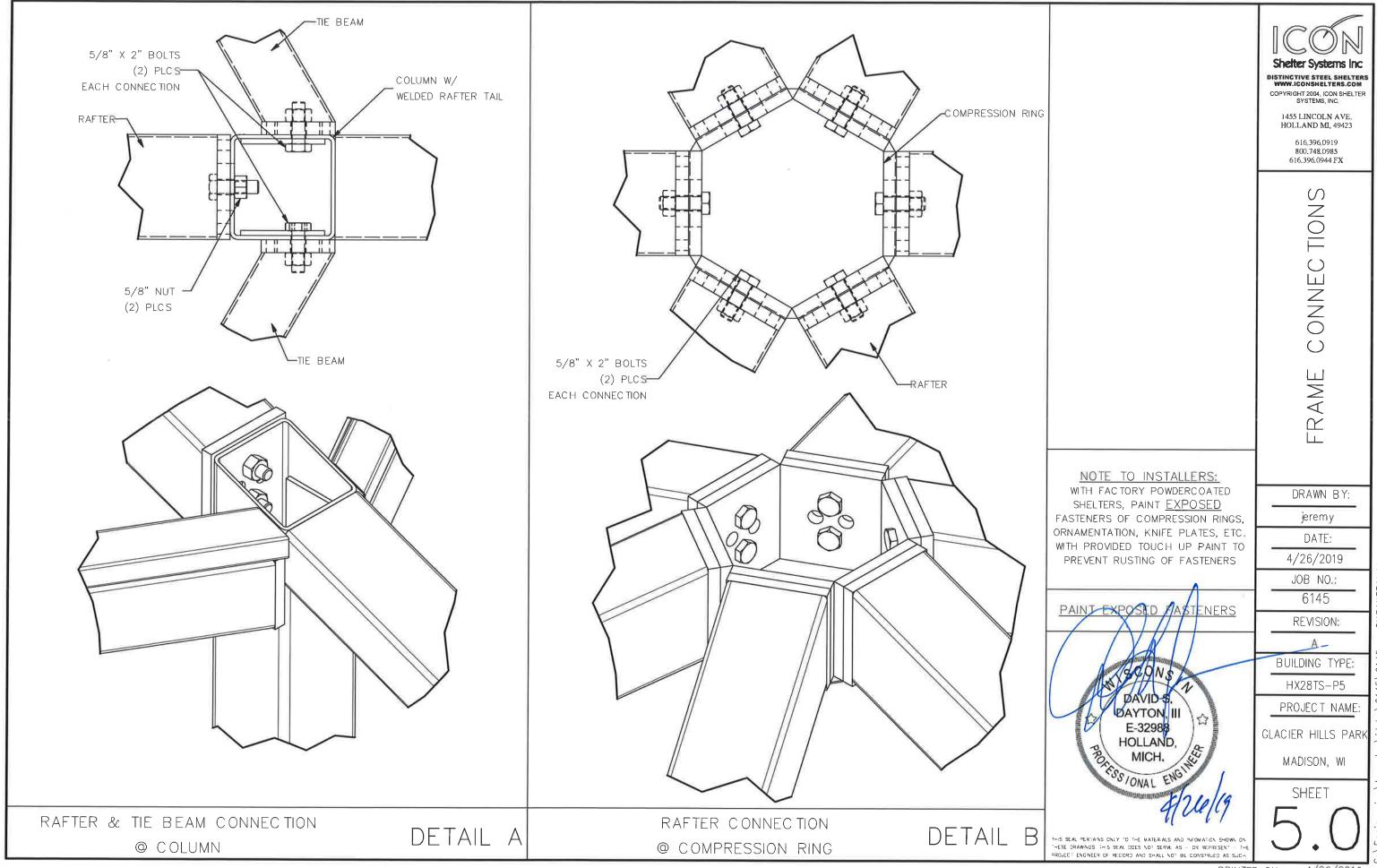
TONGUE & GROOVE BOARD SECTION 16" COVER WIDTH '24ga MEDALLION LOK STANDING SEAM PANEL_SECTION DAVIDS DAYTON, III E-32988 **HOLLAND** MICH. PSS ONAL ENG INS SEAL PERTANS ONLY TO THE MATERIALS AND INFOVATION SHOWN O

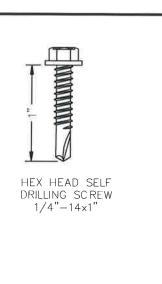
PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUC

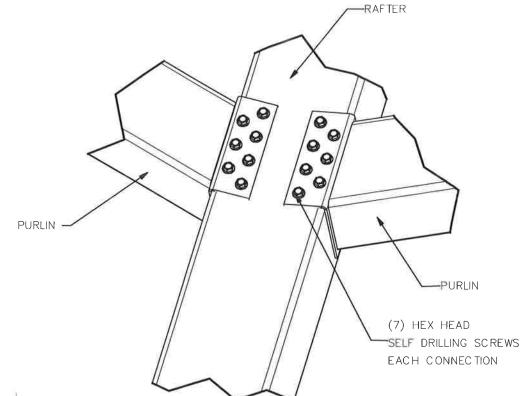












- 1). SLIDE PURLIN INTO PLACE BETWEEN RAFTERS
- 2). FASTEN PURLIN W/ (7) HEX HEAD SCREWS ON EACH END

PURLIN CONNECTION @ RAFTER

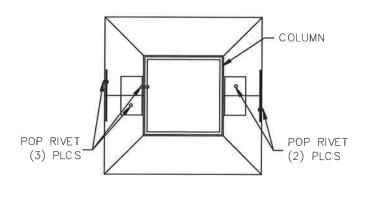
DETAIL C

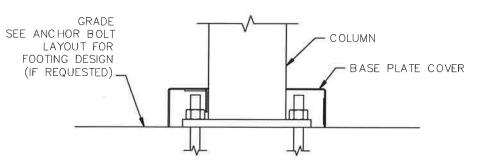
BASE PLATE COVER CONNECTION @ COLUMN

DETAIL

CONNEC TIONS FRAME NOTE TO INSTALLERS: WITH FACTORY POWDERCOATED DRAWN BY SHELTERS, PAINT EXPOSED FASTENERS OF COMPRESSION RINGS, jerem y ORNAMENTATION, KNIFE PLATES, ETC. DATE: WITH PROVIDED TOUCH UP PAINT TO 4/26/2019 PREVENT RUSTING OF FASTENERS JOB NO.: 6145 REVISION: BUILDING TYPE: HX28TS-P5 PROJECT NAME: DAYTON, III E-32988 GLACIER HILLS PARK HOLLAND, ABOTOS ONAL ENG MADISON, WI SHEET THIS SEAL PERTAINS ONLY TO THE MATERIALS AND INFOMATION SHOWN OF THESE DRAWINGS, THIS SEAL DOES NOT SERVE AS - OR REPRESENT - THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH

COLUMN BASE PLATE ATTACH FIRST BASE PLATE COVER_ TO THE COLUMN WITH WITH (1) POP RIVET SLIDE SECOND BASE PLATE COVER INTO FIRST BASE PLATE COVER AND ATTACH WITH (1) POP RIVET PER SIDE AND TOP (BOTH SIDES)





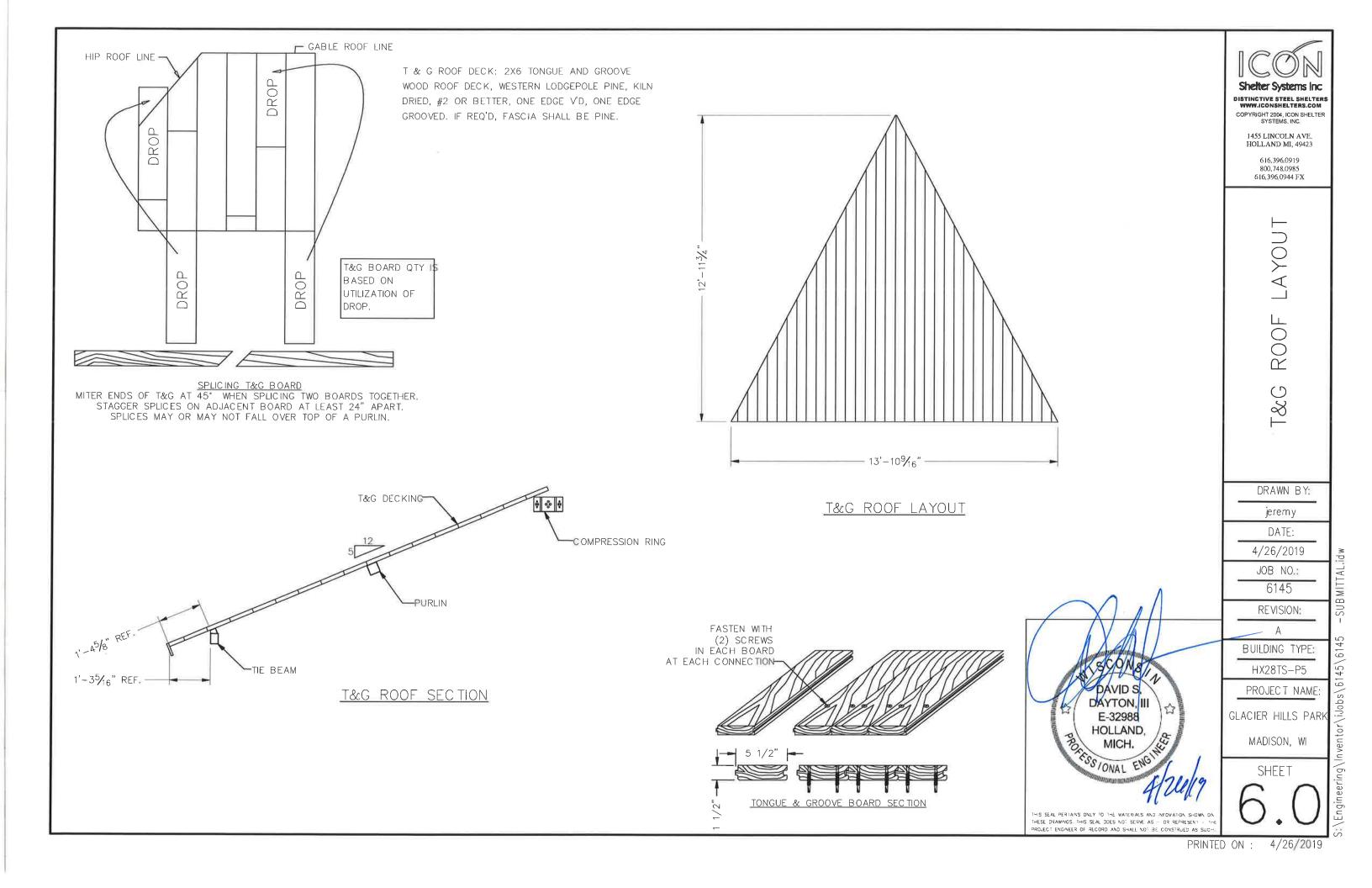
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THE SEALING MATERIAL SLIGHTLY VISIBLE AROUND THE METAL WASHER INSTALLED TOO TIGHT



THE SEALING MATERIAL IS DEFORMED BEYOND THE EDGE OF THE METAL WASHER

INSTALLED TOO LOOSE

THE SEALING MATERIAL IS NOT VISIBLE AROUND THE EDGE OF THE METAL WASHER

THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE METAL ROOFING SYSTEM. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGNS OR CODES. CHANGES TO THE DETAILS MAY BE REQUIRED DUE TO FIELD CONDITIONS.

THE EREC TOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL INSTALLATION INSTRUCTION MATERIAL BEFORE STARTING WORK.

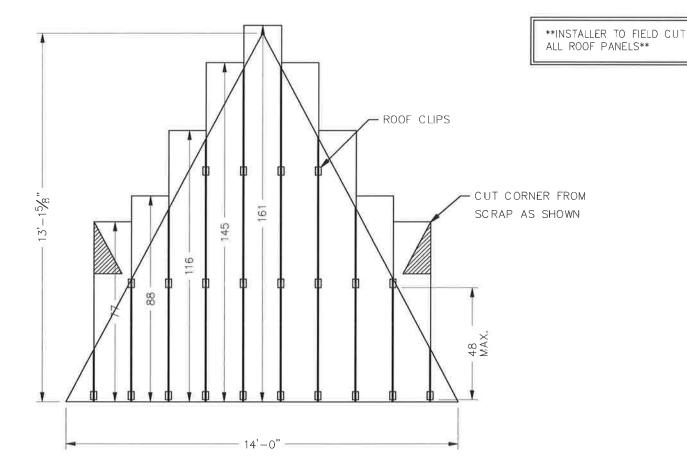
THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT

ERECTORS SHALL BE RESPONSIBLE TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.

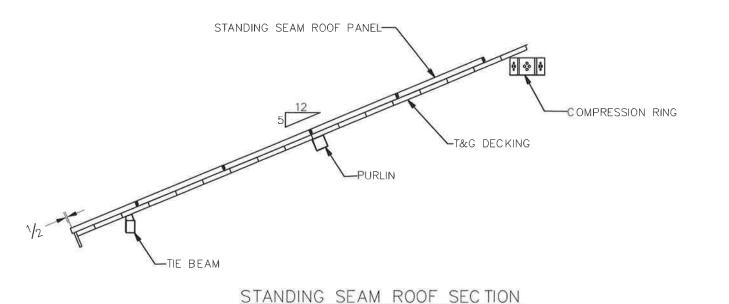
FOR THE BEST APPEARANCE ALL TRIM AND FLASHING SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ALL EXPOSED FASTENERS EQUALLY SPACED.

SOME FIELD CUTTING AND/OR FITTING OF PANELS, TRIM AND FLASHING IS TO BE EXPECTED BY THE EREC TOR. MINOR FIELD CORRECTIONS ARE PART OF NORMAL ERECTION WORK.

THE INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN AND WORKMANSHIP SHALL MEET THE BEST INDUSTRY STANDARDS.



STANDING SEAM ROOF LAYOUT



ATTENTION INSTALLERS: METAL SHAVINGS LEFT ON ROOF DRAWN BY: WILL QUICKLY RUST AND STAIN THE ROOF FINISH! jerem y DRILLING OR INSTALLING ROOF DATE: FASTENERS WILL CAUSE METAL SHAVINGS. THESE SHAVINGS 4/26/2019 MUST BE CAREFULLY REMOVED AT THE END OF EACH DAY BY JOB NO.: EITHER SWEEPING OR BRUSHING 6145 REVISION: BUILDING TYPE: HX28TS-P5 DAVIDS PROJECT NAME: DAYTON, III E-32988 GLACIER HILLS PARK HOLLAND. MICH. MADISON, WI SHEET THIS SEAL PERTAINS ONLY TO THE WATERIALS AND INFOMATION SHOWN OF

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PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUC PRINTED ON: 4/26/2019

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