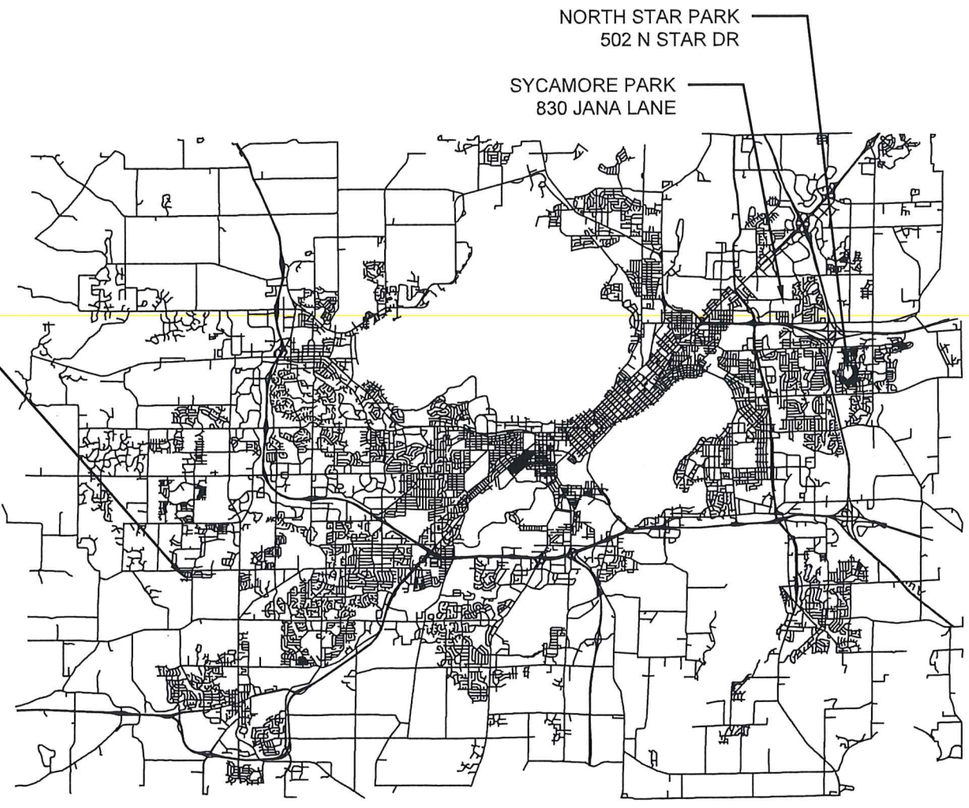
LEGEND

- EX. ELECTRICAL HAND HOLE
- EX. ELECTRICAL PEDESTAL
- EX. TELEPHONE PEDESTAL
- EX. TREE
- EX. WATER HYDRANT
- EX. WATER VALVE
- EX. PROPERTY LINE
- EX. EASEMENT
- EX. FENCE LINE
- EX. TREE LINE
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER)
- EX. ABANDONED UTILITY
- EX. ELECTRIC
- EX. FIBER OPTIC
- EX. NATURAL GAS
- EX. OVERHEAD LINE
- EX. SANITARY SEWER
- EX. STORM SEWER
- EX. CABLE TV
- EX. UNDERGROUND TELEPHONE
- EX. WATER LINE
- EX. GRAVEL
- EX. CONCRETE

- ###.## PRO. SPOT ELEVATION
- PRO. CONTOUR (INDEX)
- PRO. CONTOUR (INTER)
- PRO. SILT SOCK
- PRO. CONSTRUCTION FENCE
- PRO. CONCRETE

PARKS SUN SHELTER INSTALLATIONS MUNIS NUMBERS: 12853-51-140, 14598-51-130, 15050-51-140



SHEET SCHEDULE

KESTREL PARK

C1.0 PROJECT LOCATION AND ACCESS
C1.1 EXISTING CONDITIONS
C1.2 SITE PLAN
C1.3 GRADING AND EROSION CONTROL PLAN
C1.4 DESIGN COMPUTATIONS

NORTH STAR PARK

C2.0 PROJECT LOCATION AND ACCESS
C2.1 EXISTING CONDITIONS
C2.2 SITE PLAN
C2.3 GRADING AND EROSION CONTROL PLAN
C2.4 DESIGN COMPUTATIONS

SYCAMORE PARK

C3.0 PROJECT LOCATION AND ACCESS
C3.1 EXISTING CONDITIONS
C3.2 SITE PLAN
C3.3 GRADING AND EROSION CONTROL PLAN
C3.4 DESIGN COMPUTATIONS

*SHEETS CS-7.2: PRELIMINARY DRAWINGS OF POLIGON HXE 28 FOR REFERENCE ONLY

DESIGNED BY:

WISCONSIN
ADAM B KANIEWSKI LA-805 MADISON WI
LANDSCAPE ARCHITECT
1/21/2025

City of Madison
Department of Public Works
PARKS DIVISION
330 E. Lakeside St.
Madison, WI 53715

play MADISON PARKS

N

PROJECT:

PARKS SUN SHELTER INSTALLATIONS

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 FOR BIDS	01/23/2025

PUBLIC WORKS PROJECT #:
9529

SHEET TITLE:
COVER SHEET

SHEET NUMBER:

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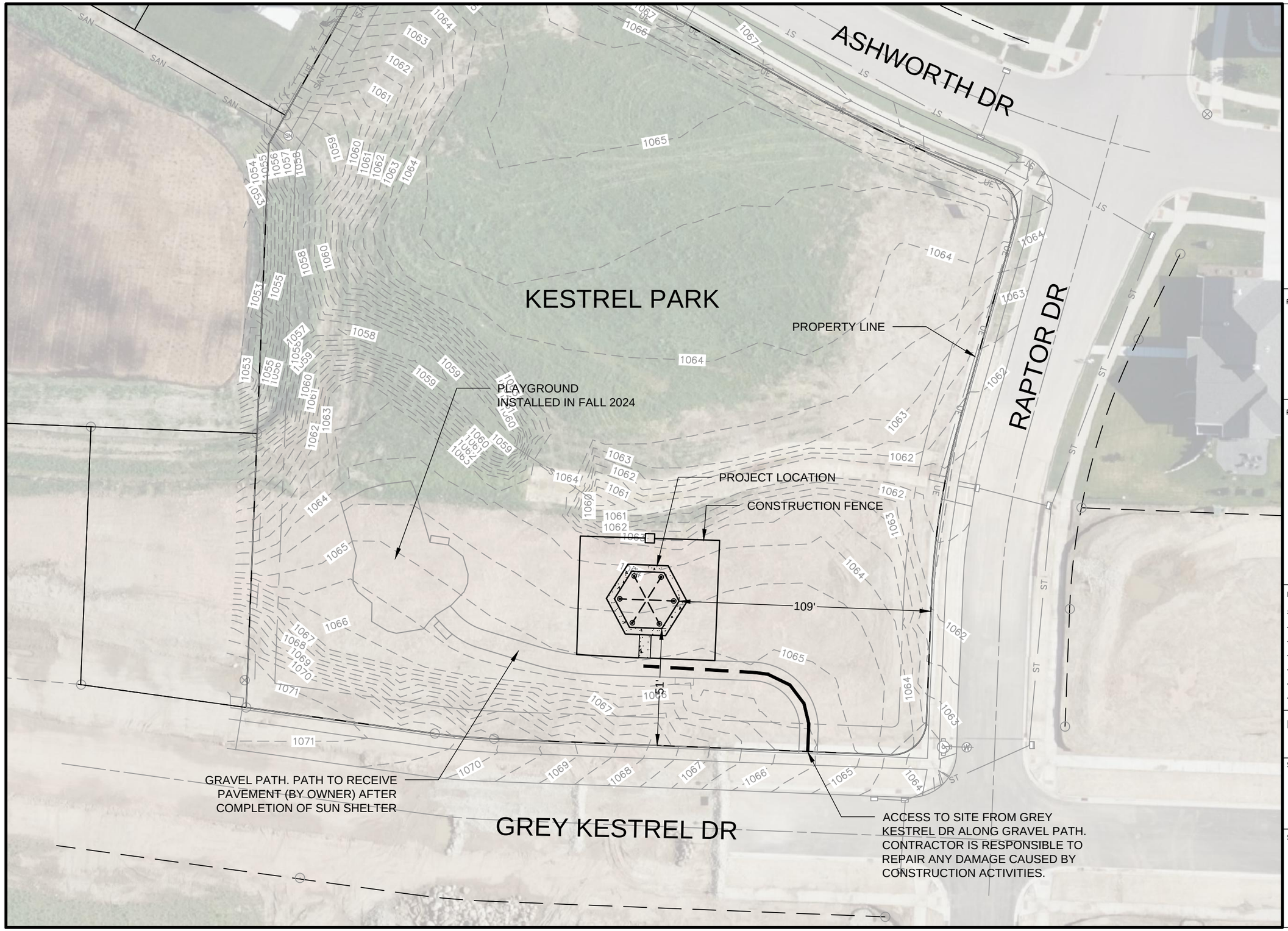

City of Madison
Department of Public Works
PARKS DIVISION
330 E. Lakeside St.
Madison, WI 53715

play MADISON PARKS

Graphical Scale
0 40

N

PROJECT:

PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:

KESTREL PARK
9702 GREY KESTREL DR
MADISON, WI 53593

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 FOR BIDS	01/23/2025

PUBLIC WORKS PROJECT #:
9529

SHEET TITLE:
PROJECT LOCATION AND ACCESS

SHEET NUMBER:
C1.0

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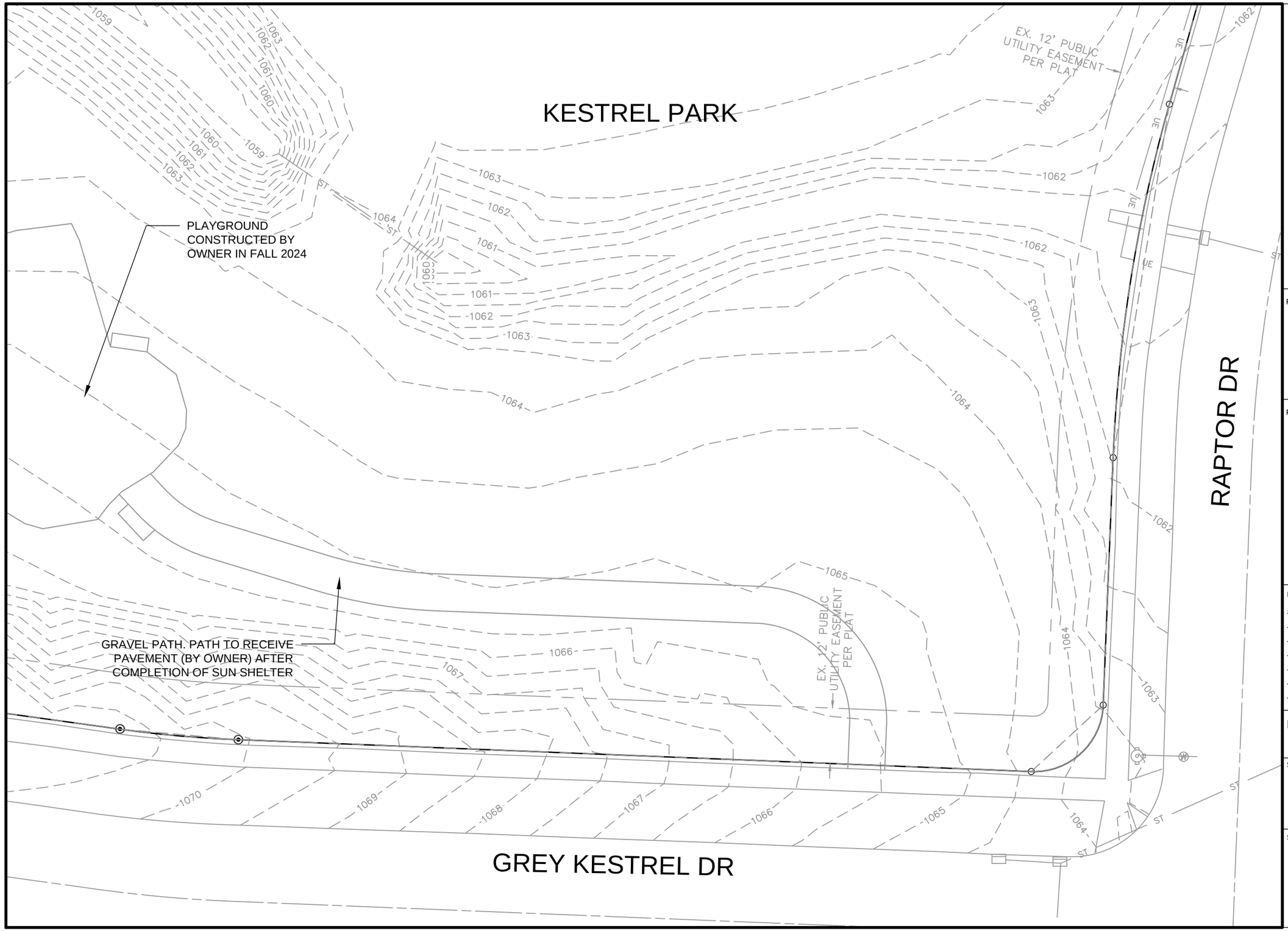

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City of Madison
Department of Public Works
PARKS DIVISION
330 E. Lakeside St.
Madison, WI 53715

play MADISON PARKS

Graphical Scale
0 40
N

PROJECT:

PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:

KESTREL PARK
9702 GREY KESTREL DR
MADISON, WI 53593

ITEM	DATE
ADVERTISED FOR BIDS	01/23/2025

PUBLIC WORKS PROJECT #:
9529

SHEET TITLE:
EXISTING CONDITIONS

SHEET NUMBER:
C1.1

KESTREL PARK

PROPOSED CONCRETE SLAB FOR SHELTER EXTENDS THREE FEET (3') BEYOND DRIP EDGE OF SHELTER ROOF PER BID ITEM 30302

PROPOSED 2' DIA. FOOTING PER ENGINEERED STRUCTURE DRAWINGS

3' TYP.

10'

5' WIDE CONCRETE SIDEWALK

EX. 12' PUBLIC UTILITY EASEMENT PER PLAT

EX. 12' PUBLIC UTILITY EASEMENT PER PLAT

RAPTOR DR

GREY KESTREL DR

1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070

ST UE

Graphical Scale
0 40

N

City of Madison
Department of Public Works
PARKS DIVISION
330 E. Lakeside St.
Madison, WI 53715

play MADISON PARKS

PROJECT:

PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:

KESTREL PARK
9702 GREY KESTREL DR
MADISON, WI 53593

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ITEM	DATE
ADVERTISED FOR BIDS	01/23/2025

PUBLIC WORKS PROJECT #:
9529

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
C1.2

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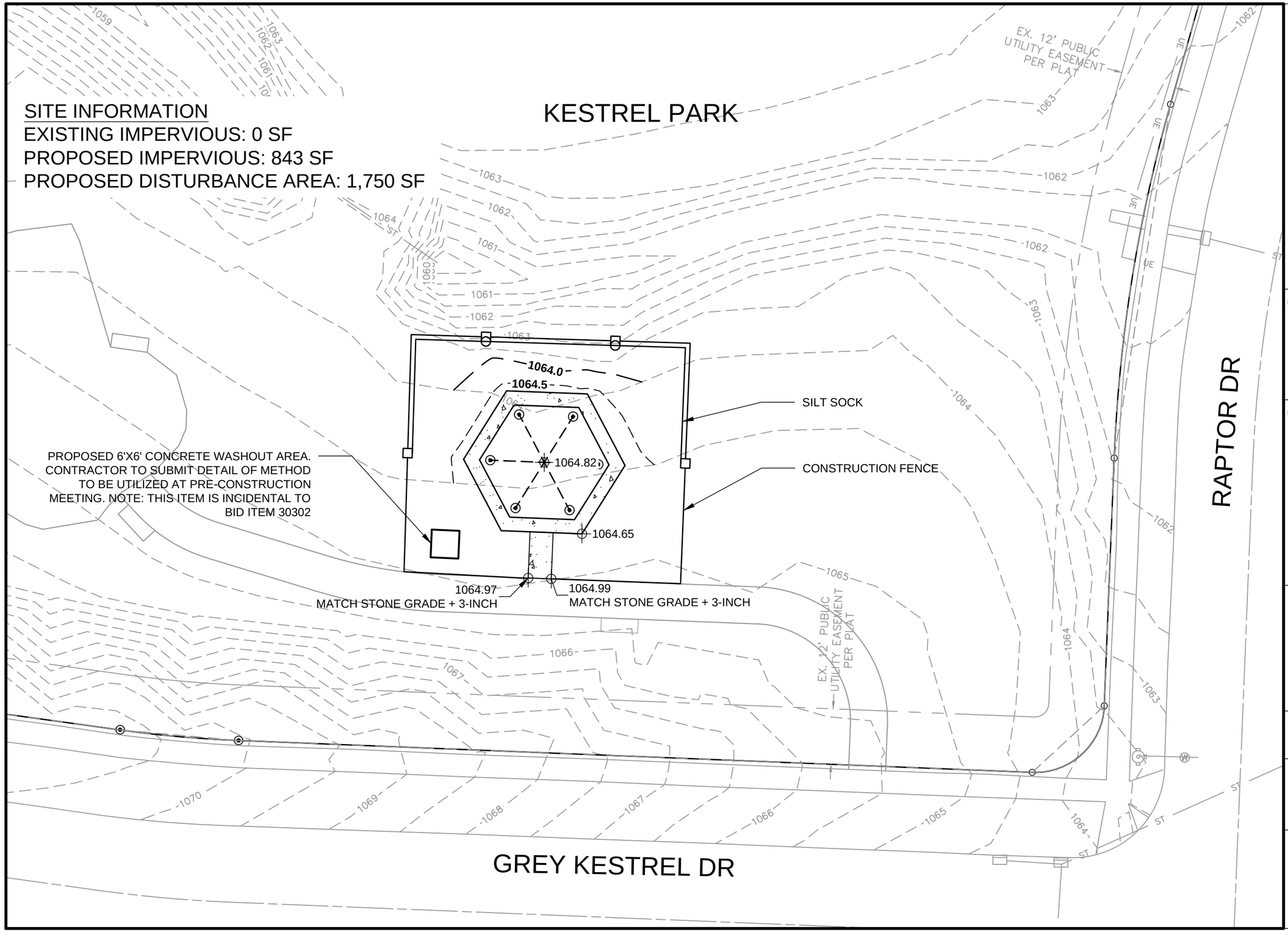

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Department of Public Works
PARKS DIVISION
330 E. Lakeside St.
Madison, WI 53715

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Graphical Scale
0 40

PROJECT:
PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:
KESTREL PARK
9702 GREY KESTREL DR
MADISON, WI 53593

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ITEM	DATE
ADVERTISED FOR BIDS	01/23/2025

PUBLIC WORKS PROJECT #:
9529

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
C1.3

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Kestrel Park Sun Shelter - Earthwork Quantities

City of Madison, WI Public Works Contract
Date Revised:12-12-2024

Notes:
Positive volumes are cuts, negative volumes are fills.
Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction.

	Sort	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)
	1.1	Grass to Grass	Topsoil Excavate	Strip 9in topsoil	n/a	n/a	905	0.75	679	25.1	0%	25.1
	1.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-9in	Pro-9in	905	varies	10	0.4	0%	0.4
	1.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-9in	Pro-9in	905	varies	-166	-6.1	0%	-6.1
	1.4	Grass to Grass	Topsoil Place	Place 9in topsoil	n/a	n/a	905	-0.75	-679	-25.1	0%	-25.1
	2.1	Grass to Concrete	Topsoil Excavate	Strip 9in topsoil	n/a	n/a	843	0.75	632	23.4	0%	23.4
	2.2	Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-9in	Pro-13in	843	varies	92	3.4	0%	3.4
	2.3	Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-9in	Pro-13in	843	varies	-78	-2.9	0%	-2.9
	2.4	Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base	n/a	n/a	843	-0.50	-422	-15.6	0%	-15.6
	2.5	Grass to Concrete	Concrete Pavement	Place 7in concrete	n/a	n/a	843	-0.58	-492	-18.2	0%	-18.2

Kestrel Park Sun Shelter - Earthwork Quantities

City of Madison, WI Public W	9529
Date Revised:	12/12/2024
Dervied from more detailed spreadsheet available from Parks Div	
Computation Summary	
Positive volumes are cuts (material available), negative volumes are fills (material needed)	
Row Labels	**Sum of Unfactored volume (cu yd)**
Gravel (for Pavement) Place	-15.6
Subsoil Excavate	3.8
Subsoil Place	-9.0
Topsoil Excavate	48.6
Topsoil Place	-25.1
Concrete Pavement	-18.2
Grand Total	**-15.7**

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table (above)
20101 Excavation Cut	52	CY	= Subsoil Excavate + Topsoil Excavate
20202 Fill Borrow	5	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	151	SY	= (Topsoil Place)/-.167
40102 Crushed Aggregate Base Course Gradation No. 2	31	tons	= (Gravel for Pavement Place) * -2 ton/cubic yard

City of Madison
Department of Public Works
PARKS DIVISION
330 E. Lakeside St.
Madison, WI 53715

play MADISON PARKS

PROJECT:
PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:
KESTREL PARK
9702 GREY KESTREL DR
MADISON, WI 53593

ITEM	DATE
ADVERTISED FOR BIDS	01/23/2025

PUBLIC WORKS PROJECT #:
9529

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
C1.4

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City of Madison
Department of Public Works
PARKS DIVISION

330 E. Lakeside St.
Madison, WI 53715

play MADISON PARKS

Graphical Scale
0 60

N

PROJECT:

PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:

NORTH STAR PARK
502 N. STAR DR.
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 FOR BIDS	01/23/2025

PUBLIC WORKS PROJECT #:
9529

SHEET TITLE:

PROJECT LOCATION AND ACCESS

SHEET NUMBER:

C2.0

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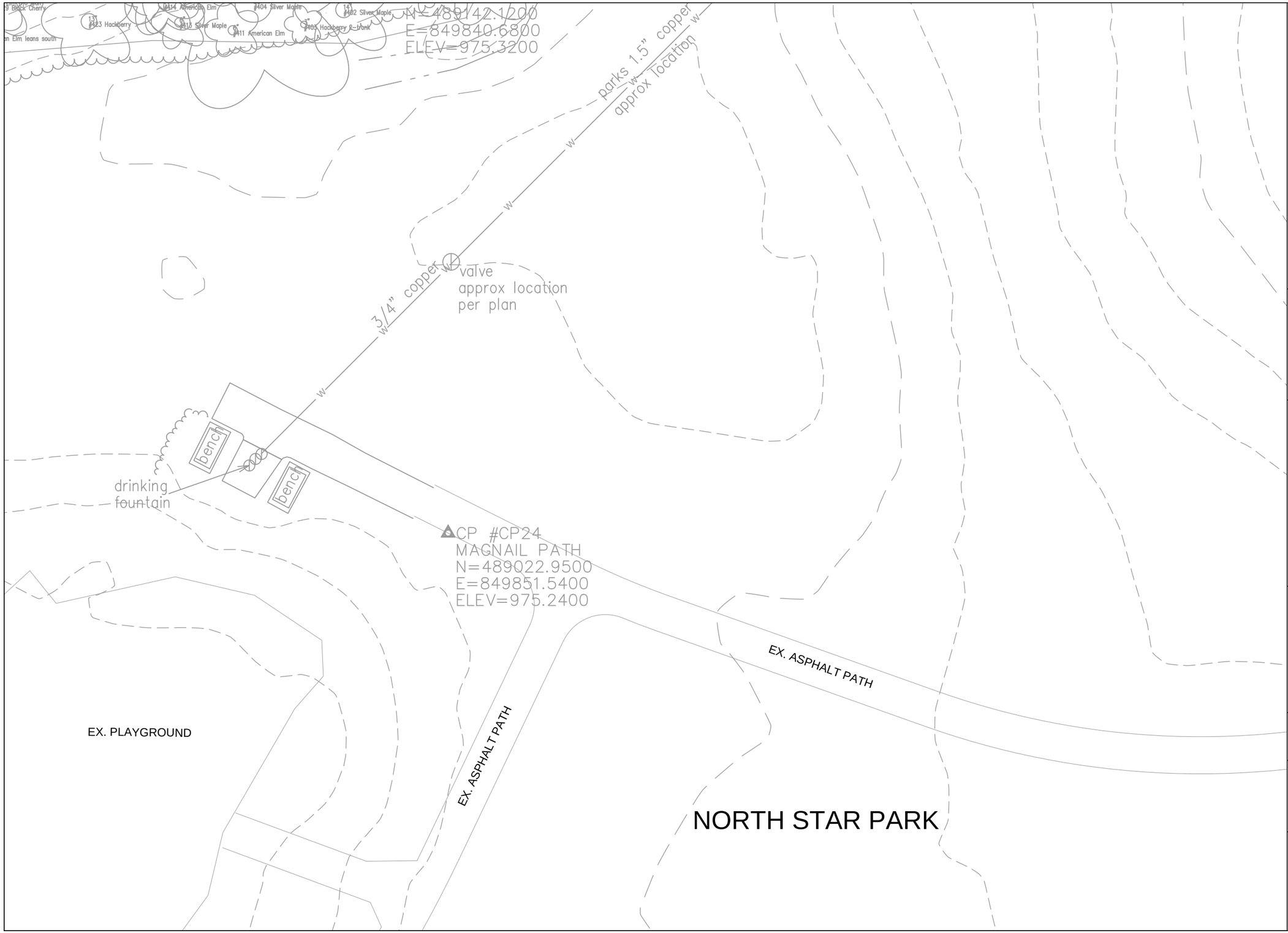

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City of Madison
Department of Public Works
PARKS DIVISION
330 E. Lakeside St.
Madison, WI 53715

play MADISON PARKS

Graphical Scale
0 20

N

PROJECT:

PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:

NORTH STAR PARK
502 N. STAR DR.
MADISON, WI 53704

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ITEM	DATE
ADVERTISED FOR BIDS	01/23/2025

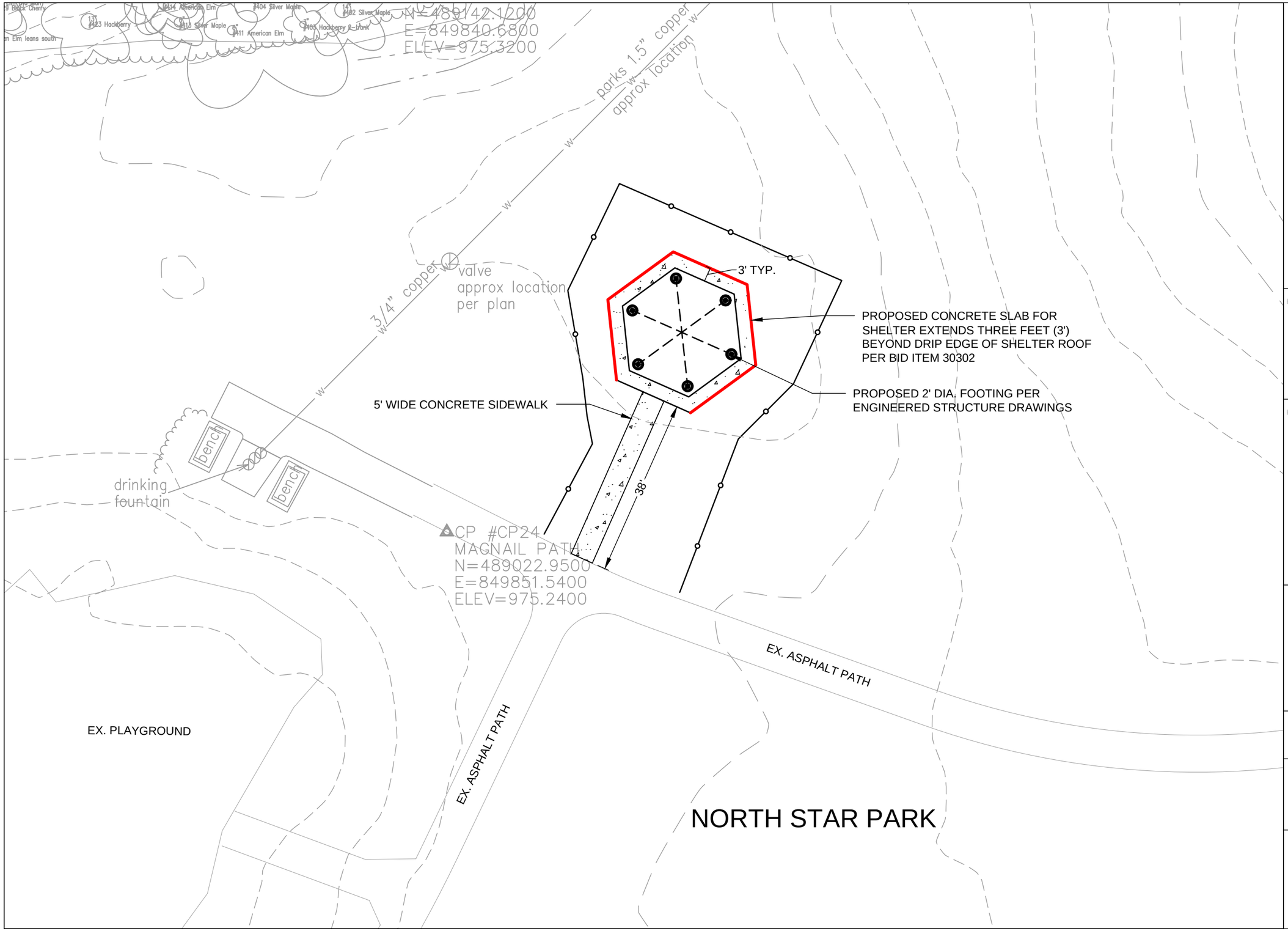
PUBLIC WORKS PROJECT #:
9529

SHEET TITLE:

EXISTING CONDITIONS

SHEET NUMBER:

C2.1



City of Madison

Department of Public Works

PARKS DIVISION

330 E. Lakeside St.
Madison, WI 53715

play MADISON PARKS

Graphical Scale

0 20

N

PROJECT:

PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:

NORTH STAR PARK
502 N. STAR DR.
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 FOR BIDS	01/23/2025

PUBLIC WORKS PROJECT #:

9529

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

C2.2

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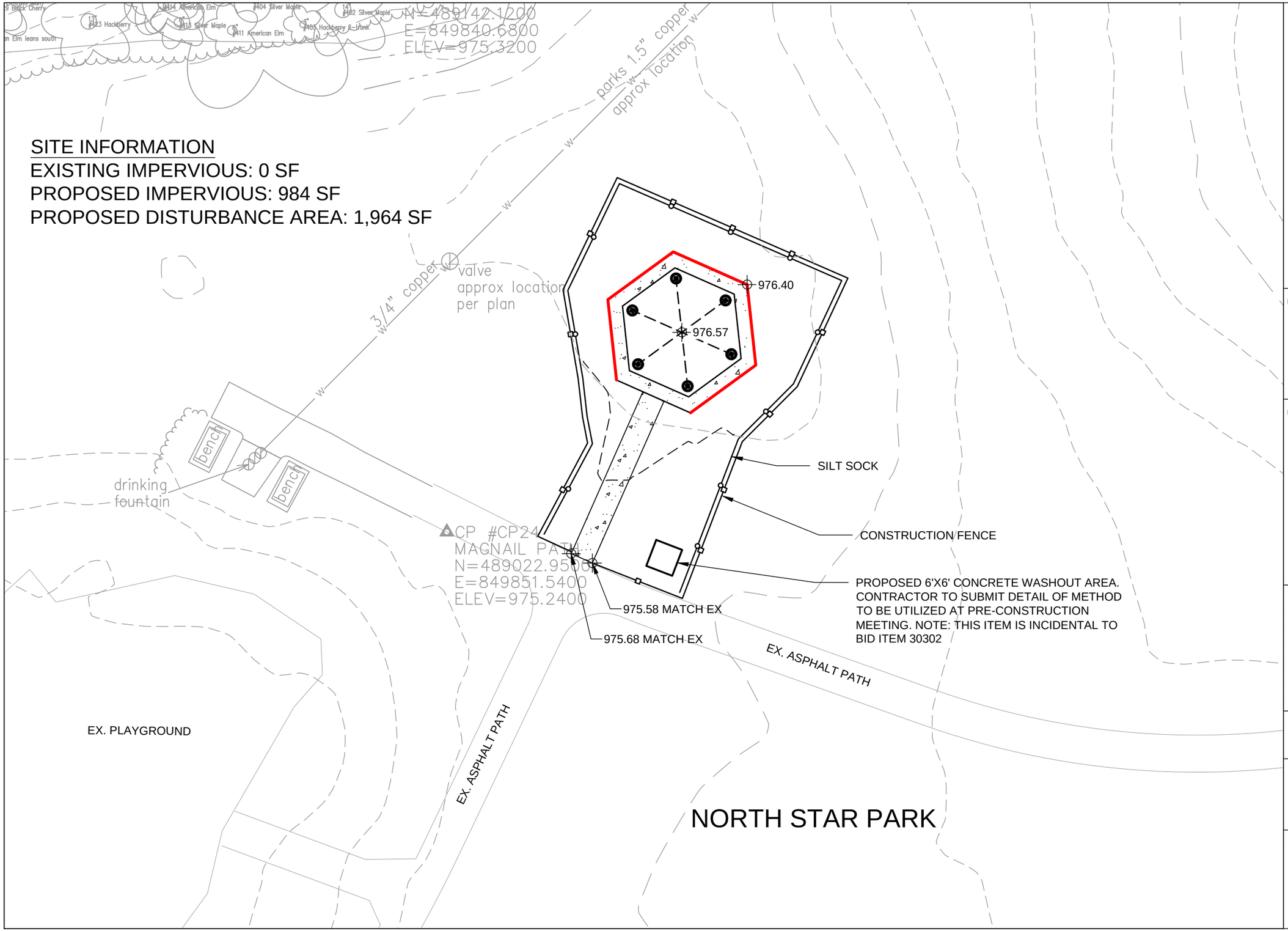

SITE INFORMATION

EXISTING IMPERVIOUS: 0 SF
PROPOSED IMPERVIOUS: 984 SF
PROPOSED DISTURBANCE AREA: 1,964 SF

City of Madison
Department of Public Works
PARKS DIVISION
330 E. Lakeside St.
Madison, WI 53715

play MADISON PARKS

Graphical Scale
0 20

N

PROJECT:
PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:
NORTH STAR PARK
502 N. STAR DR.
MADISON, WI 53704

ITEM	DATE
ADVERTISED FOR BIDS	01/23/2025

PUBLIC WORKS PROJECT #:
9529

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
C2.3

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North Star Park Sun Shelter - Earthwork Quantities

City of Madison, WI Public Works Contract
Date Revised:12-12-2024

Notes:
Positive volumes are cuts, negative volumes are fills.
Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction.

	Sort	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)
	1.1	Grass to Grass	Topsoil Excavate	Strip 9in topsoil	n/a	n/a	763	0.75	572	21.2	0%	21.2
	1.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-9in	Pro-9in	763	varies	7	0.3	0%	0.3
	1.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-9in	Pro-9in	763	varies	-278	-10.3	0%	-10.3
	1.4	Grass to Grass	Topsoil Place	Place 9in topsoil	n/a	n/a	763	-0.75	-572	-21.2	0%	-21.2
	2.1	Grass to Concrete	Topsoil Excavate	Strip 9in topsoil	n/a	n/a	984	0.75	738	27.3	0%	27.3
	2.2	Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-9in	Pro-13in	984	varies	135	5.0	0%	5.0
	2.3	Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-9in	Pro-13in	984	varies	0	0.0	0%	0.0
	2.4	Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base	n/a	n/a	984	-0.50	-492	-18.2	0%	-18.2
	2.5	Grass to Concrete	Concrete Pavement	Place 7in concrete	n/a	n/a	984	-0.58	-574	-21.3	0%	-21.3

North Star Park Sun Shelter - Earthwork Quantities

City of Madison, WI Public W	9529
Date Revised:	12/12/2024
Dervied from more detailed spreadsheet available from Parks Div	
Computation Summary	
Positive volumes are cuts (material available), negative volumes are fills (material needed)	
Row Labels	**Sum of Unfactored volume (cu yd)**
Gravel (for Pavement) Place	-18.2
Subsoil Excavate	5.3
Subsoil Place	-10.3
Topsoil Excavate	48.5
Topsoil Place	-21.2
Concrete Pavement	-21.3
Grand Total	**-17.2**

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table (above)
20101 Excavation Cut	54	CY	= Subsoil Excavate + Topsoil Excavate
20202 Fill Borrow	5	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	127	SY	= (Topsoil Place)/-.167
40102 Crushed Aggregate Base Course Gradation No. 2	36	tons	= (Gravel for Pavement Place) * -2 ton/cubic yard

City of Madison
Department of Public Works
PARKS DIVISION
330 E. Lakeside St.
Madison, WI 53715

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PROJECT:
PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:
NORTH STAR PARK
502 N. STAR DR.
MADISON, WI 53704

ITEM	DATE
ADVERTISED FOR BIDS	01/23/2025

PUBLIC WORKS PROJECT #:
9529

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
C2.4

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City of Madison
Department of Public Works
PARKS DIVISION
330 E. Lakeside St.
Madison, WI 53715

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Graphical Scale
0 100

N

PROJECT:

PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:

SYCAMORE PARK
830 JANA LANE
MADISON, WI 53704

ITEM	DATE
ADVERTISED FOR BIDS	01/23/2025

PUBLIC WORKS PROJECT #:
9529

SHEET TITLE:
PROJECT LOCATION AND ACCESS

SHEET NUMBER:
C3.0

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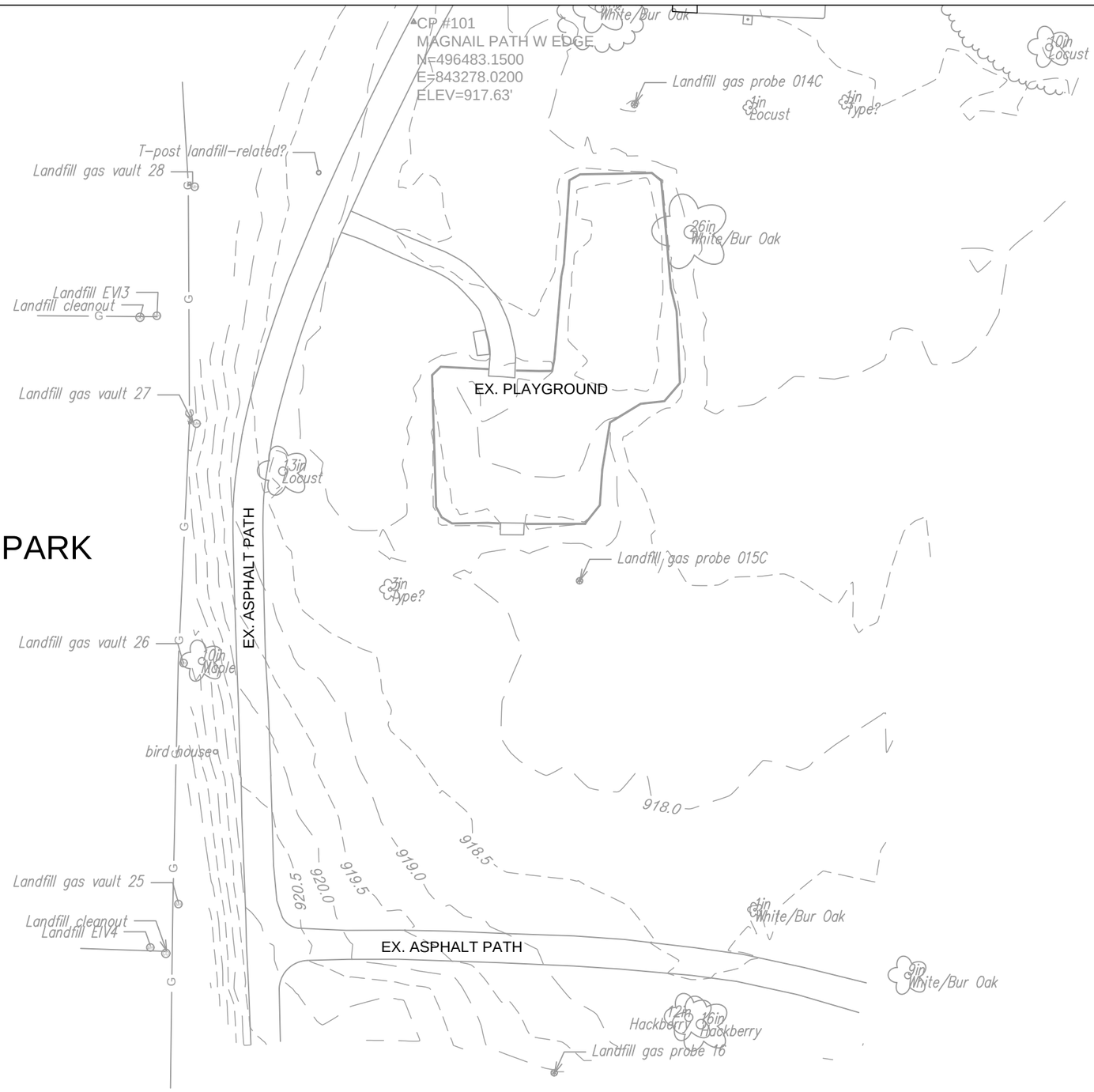
SYCAMORE PARK



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City of Madison
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PARKS DIVISION
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Graphical Scale
0 40

N

PROJECT:

PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:

SYCAMORE PARK
830 JANA LANE
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.

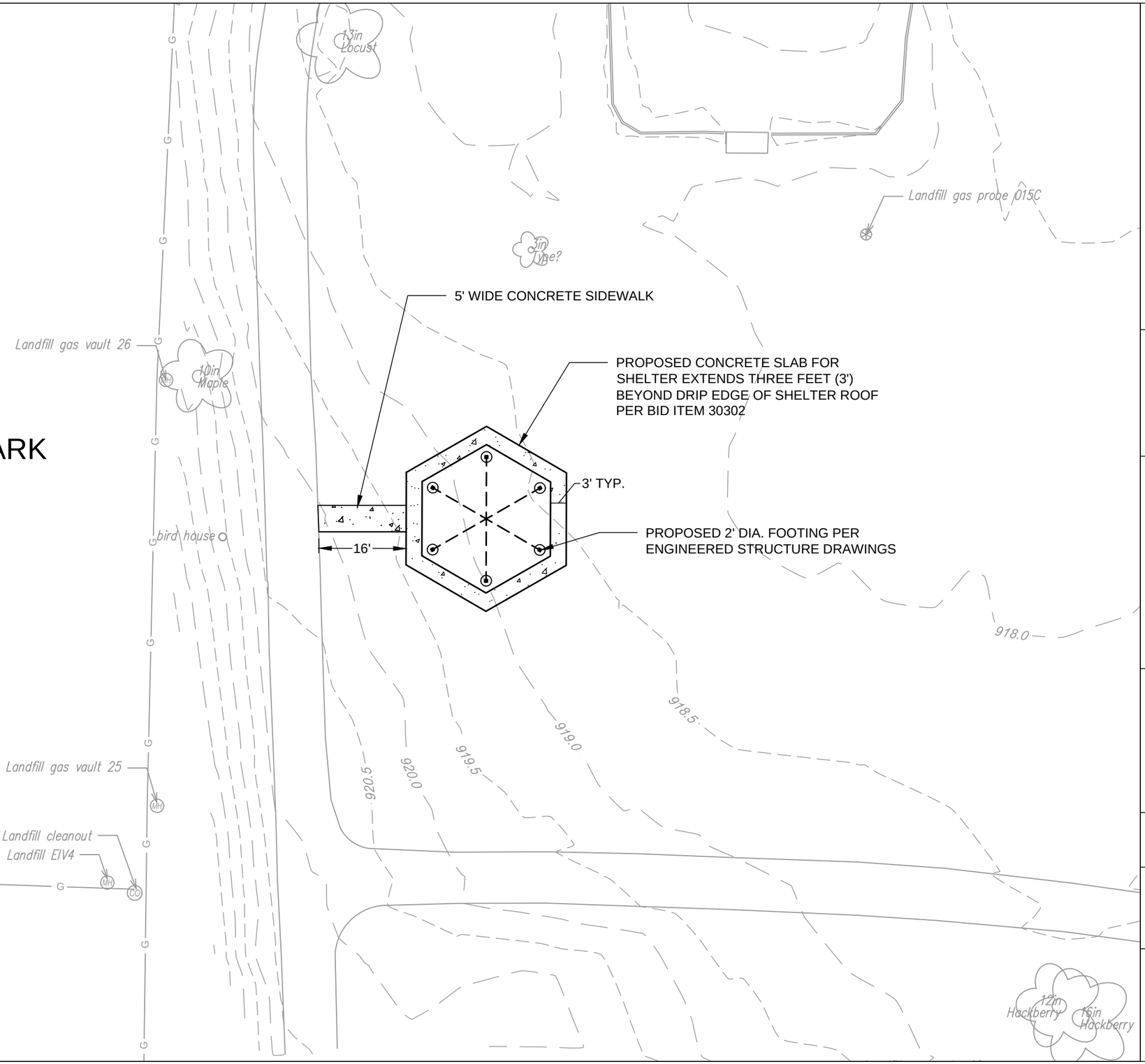
ITEM	DATE
ADVERTISED FOR BIDS	01/23/2025

PUBLIC WORKS PROJECT #:
9529

SHEET TITLE:
EXISTING CONDITIONS

SHEET NUMBER:
C3.1

SYCAMORE PARK



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City of Madison
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PARKS DIVISION
330 E. Lakeside St.
Madison, WI 53715

play MADISON PARKS

Graphical Scale
0 20

N

PROJECT:

PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:

SYCAMORE PARK
830 JANA LANE
MADISON, WI 53704

ITEM	DATE
ADVERTISED FOR BIDS	01/23/2025

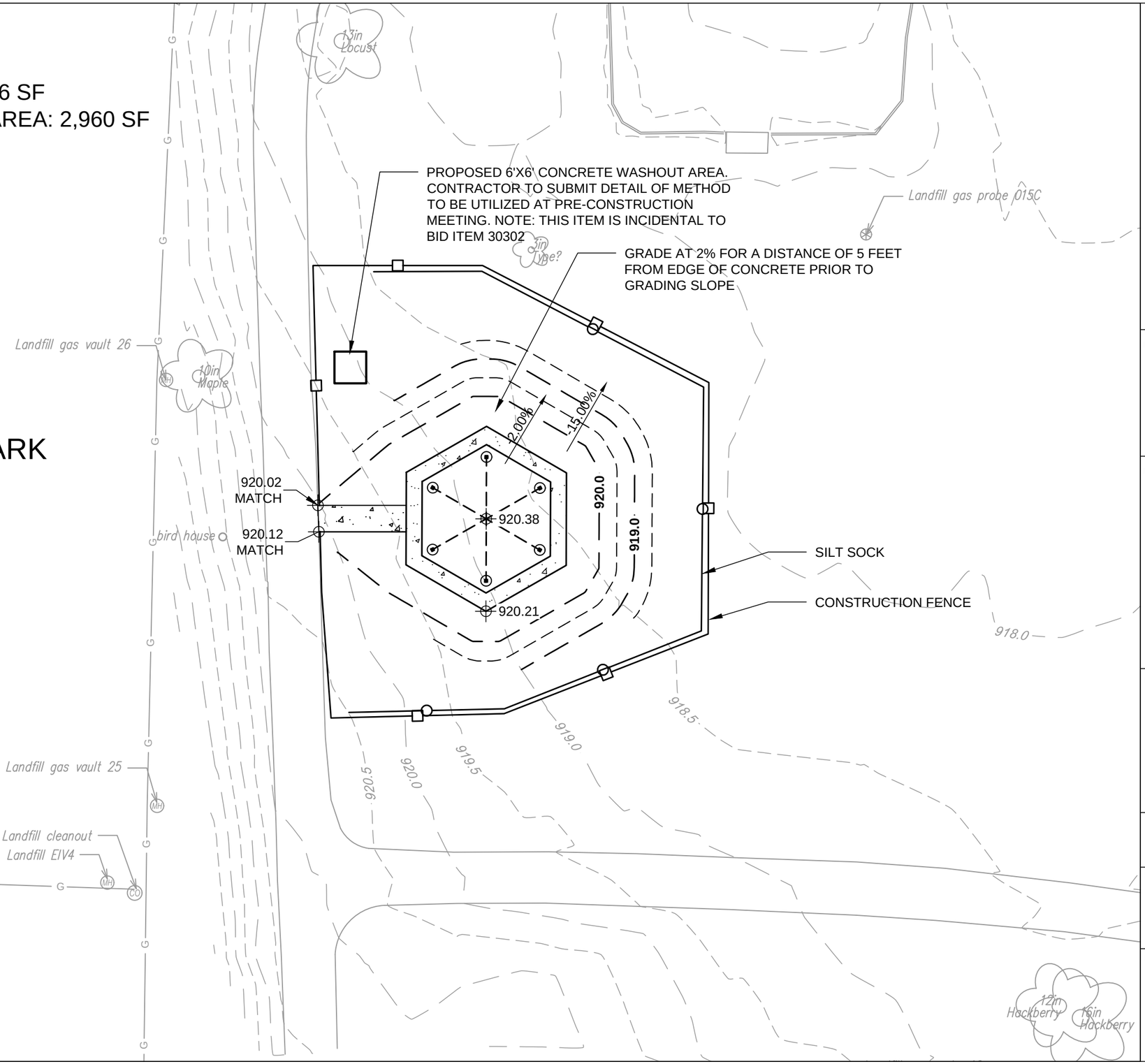
PUBLIC WORKS PROJECT #:
9529

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
C3.2

SITE INFORMATION
EXISTING IMPERVIOUS: 0 SF
PROPOSED IMPERVIOUS: 876 SF
PROPOSED DISTURBANCE AREA: 2,960 SF

SYCAMORE PARK



City of Madison
Department of Public Works
PARKS DIVISION
330 E. Lakeside St.
Madison, WI 53715

play MADISON PARKS

Graphical Scale
0 20
N

PROJECT:
PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:
SYCAMORE PARK
830 JANA LANE
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 FOR BIDS	01/23/2025

PUBLIC WORKS PROJECT #:
9529

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
C3.3

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Sycamore Park Sun Shelter - Earthwork Quantities

City of Madison, WI Public Works Contract

Date Revised:12-12-2024

Notes:

Positive volumes are cuts, negative volumes are fills.

Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction.

	Sort	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)
	1.1	Grass to Grass	Topsoil Excavate	Strip 9in topsoil	n/a	n/a	2078	0.75	1559	57.7	0%	57.7
	1.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-9in	Pro-9in	2078	varies	0	0.0	0%	0.0
	1.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-9in	Pro-9in	2078	varies	-1724	-63.9	0%	-63.9
	1.4	Grass to Grass	Topsoil Place	Place 9in topsoil	n/a	n/a	2078	-0.75	-1559	-57.7	0%	-57.7
	2.1	Grass to Concrete	Topsoil Excavate	Strip 9in topsoil	n/a	n/a	876	0.75	657	24.3	0%	24.3
	2.2	Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-13in	876	varies	5	0.2	0%	0.2
	2.3	Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-13in	876	varies	-858	-31.8	0%	-31.8
	2.4	Grass to Concrete	Gravel (for Pavement) Place	Place 5in gravel base	n/a	n/a	876	-0.50	-438	-16.2	0%	-16.2
	2.5	Grass to Concrete	Concrete Pavement	Place 7in concrete	n/a	n/a	876	-0.58	-511	-18.9	0%	-18.9

Sycamore Park Sun Shelter - Earthwork Quantities

City of Madison, WI Public W	9529
Date Revised:	12/12/2024
Dervied from more detailed spreadsheet available from Parks Div	
Computation Summary	
Positive volumes are cuts (material available), negative volumes are fills (material needed)	

Row Labels	Sum of Unfactored volume (cu yd)
Gravel (for Pavement) Place	-16.2
Subsoil Excavate	0.2
Subsoil Place	-95.6
Topsoil Excavate	82.1
Topsoil Place	-57.7
Concrete Pavement	-18.9
Grand Total	**-106.2**

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table (above)
20101 Excavation Cut	83	CY	= Subsoil Excavate + Topsoil Excavate
20202 Fill Borrow	96	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	346	SY	= (Topsoil Place)/-.167
40102 Crushed Aggregate Base Course Gradation No. 2	32	tons	= (Gravel for Pavement Place) * -2 ton/cubic yard

City of Madison
Department of Public Works
PARKS DIVISION
330 E. Lakeside St.
Madison, WI 53715

play MADISON PARKS

PROJECT:

PARKS SUN SHELTER INSTALLATIONS

PROJECT ADDRESS:

SYCAMORE PARK
830 JANA LANE
MADISON, WI 53704

ITEM	DATE
ADVERTISED FOR BIDS	01/23/2025

PUBLIC WORKS PROJECT #:

9529

SHEET TITLE:

DESIGN COMPUTATIONS

SHEET NUMBER:

C3.4

M:\Maps\parks\Sycamore\Sun Shelter\Sycamore Sun Shelter.dwg

2024C

poligon®

A Division of PORTERCORP 4240 N. 136th AVE HOLLAND, MI 49424 (616) 888-3500

PROJECT NAME: SUN SHELTERS - KESTREL PARK

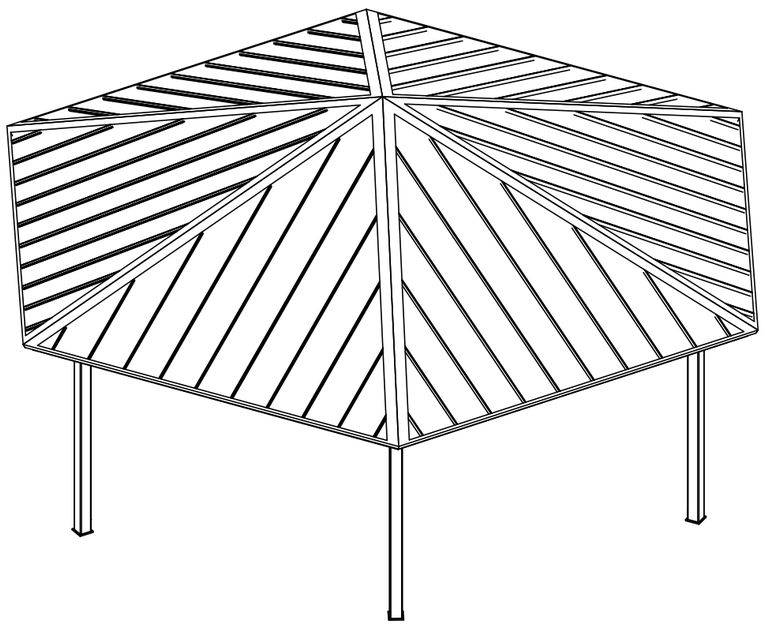
PROJECT LOCATION: MADISON, WI

BUILDING TYPE: HXE 28

ROOF TYPE: STANDING SEAM (24 GA) OVER STAINED T & G

BUILDING NUMBER: P19792

ORDER NUMBER: 79984



DRAWING LIST:

SHEET NUMBER	DRAWING DESCRIPTION
CS	COVER SHEET
1	ARCHITECTURAL ELEVATIONS
2-2.1	ANCHOR AND FOOTING LAYOUT / DETAILS
3	STRUCTURAL FRAMING PLAN
4-4.1	FRAME CONNECTION DETAILS
5	ELECTRICAL VIEWS-N/A
6-6.2	ROOF LAYOUT
7-7.2	ROOF CONNECTION DETAILS

MANUFACTURER NOTES:

MATERIALS:

DESCRIPTION	ASTM DESIGNATION
TUBE STEEL	A500 (GRADE C)
SCHEDULE PIPE	A53 (GRADE B)
RMT PIPE	A519
LIGHT GAGE COLD FORMED	A1003 (GRADE 50)
STRUCTURAL STEEL PLATE	A36
ROOF PANELS (STEEL)	A653
ANCHOR BOLTS	SEE SHEET 2.1

GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED TO ONLY SUPPORT WHAT IS SHOWN ON THESE DRAWINGS. POLIGON MUST BE CONTACTED IF ANYTHING ELSE IS TO BE ATTACHED TO THIS STRUCTURE (WALLS, COLUMN WRAPS, RAILINGS, ETC.) SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.
2. THE ENGINEERING SEAL FOR THE STRUCTURE DETAILED IN THESE DRAWINGS IS ONLY VALID IF PORTER CORP DESIGNS AND FABRICATES THE STEEL COMPONENTS. FABRICATING THE STEEL COMPONENTS ELSEWHERE VOIDS THE ENGINEERING PROVIDED BY PORTER CORP.
3. UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 20' SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EAVE HEIGHT EQUAL TO OR GREATER THAN THE EAVE HEIGHT OF THIS STRUCTURE (SEE SNOW DESIGN DATA). IF THAT SEPARATION DOES NOT EXIST AND THE GROUND SNOW LOAD (Pg) IS GREATER THAN 0 PSF, POLIGON MUST BE CONTACTED SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.
4. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED IN THE GOVERNING BUILDING CODE.
5. ALL WELDING IS PERFORMED BY AMERICAN WELDING SOCIETY (AWS) CERTIFIED WELDERS AND CONFORMS TO AWS D1.1 OR D1.3 AS REQUIRED.
6. PARTS SHOWN MAY BE UPGRADED DUE TO STANDARDIZED FABRICATION. REFER TO THE SHIPPING BILL OF MATERIALS AND FINAL INSTALLATION INSTRUCTIONS INCLUDED WITH THE STRUCTURE FOR POSSIBLE SUBSTITUTIONS AND IMPROVEMENTS.
7. FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT THE PRIMARY FRAME INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM FIVE (5) YEARS DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.
8. THE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING BRACING, SHORING, LAYDOWN AND PROTECTION OF CONSTRUCTION MATERIALS, ETC. TEMPORARY SHORING AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT ELECTRIC WIRING, IF REQUIRED, BE RUN THROUGH THE STRUCTURAL MEMBERS BEFORE THE BUILDING IS ERECTED.
10. MAKING HOLES, CUTS OR MODIFICATIONS TO THE STRUCTURAL STEEL MEMBERS IS NOT PERMITTED IN THE FIELD WITHOUT SPECIFIC APPROVAL OF POLIGON.

CERTIFICATES:

MIAMI-DADE COUNTY CERTIFICATE OF COMPETENCY NO. 23-0915.11
PCI (POWDER COATING INSTITUTE) 4000 CERTIFIED

FABRICATOR APPROVALS:

CITY OF PHOENIX, AZ APPROVED FABRICATOR #C08-2010
CITY OF LOS ANGELES, CA APPROVED FABRICATOR #FB01596
CITY OF RIVERSIDE, CA APPROVED FABRICATOR #SF_000042
CITY OF HOUSTON, TX APPROVED FABRICATOR #470
CLARK COUNTY, NV APPROVED FABRICATOR #264
STATE OF UTAH APPROVED FABRICATOR 02008-14
AISC APPROVED FABRICATOR C-00024530
AWS CERTIFIED WELDING FABRICATOR #221003F

DESIGN CRITERIA:

GENERAL:
2015 INTERNATIONAL BUILDING CODE
RISK CATEGORY: II

DEAD LOAD:
ROOF DEAD LOAD: 6 PSF
FRAME DEAD LOAD: SELF WEIGHT

LIVE LOAD:
ROOF LIVE LOAD: 20 PSF

SNOW DESIGN DATA:
GROUND SNOW LOAD (Pg): 30 PSF
FLAT ROOF SNOW LOAD (Pf): 25 PSF
SNOW EXPOSURE FACTOR (Ce): 1.0
SNOW LOAD IMPORTANCE FACTOR (Is): 1.0
THERMAL FACTOR (Ct): 1.2
ROOF SLOPE FACTOR (Cs): 1.0
DRIFT SURCHARGE LOAD (Pd): 0 PSF
WIDTH OF SNOW DRIFT (w): 0 FT
MINIMUM HORIZONTAL SEPARATION DISTANCE (s): 20 FT

WIND DESIGN DATA:
BASIC WIND SPEED (V): 115 MPH
ALLOWABLE STRESS DESIGN WIND SPEED (Vasd): 89 MPH
GUST EFFECT FACTOR (G): 0.85
INTERNAL PRESSURE COEFFICIENT (GCpi): 0
WIND EXPOSURE: C

SEISMIC DESIGN DATA:
STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
SEISMIC IMPORTANCE FACTOR (Ie): 1.0
SEISMIC DESIGN CATEGORY: B
SEISMIC SITE CLASS: D
SHORT SPECTRAL RESPONSE (Ss): 0.32
1-SEC SPECTRAL RESPONSE (S1): 0.08
DESIGN SHORT SPECTRAL RESPONSE (SDS): 0.33
DESIGN 1-SEC SPECTRAL RESPONSE (SD1): 0.13
SEISMIC RESPONSE COEFFICIENT (Cs): 0.11
RESPONSE MODIFICATION COEFFICIENT (R): 3.00
EQUIVALENT LATERAL FORCE PROCEDURE
SEE CALCULATIONS FOR ADDITIONAL DATA

ADDITIONAL CRITERIA:
NONE

IF THESE DRAWINGS ARE SEALED, THE SEAL APPLIES ONLY TO BUILDING COMPONENTS DETAILED WITHIN THESE DRAWINGS AND SUPPLIED BY PORTER CORP AS WELL AS THE FOUNDATION DESIGN, IF APPLICABLE.

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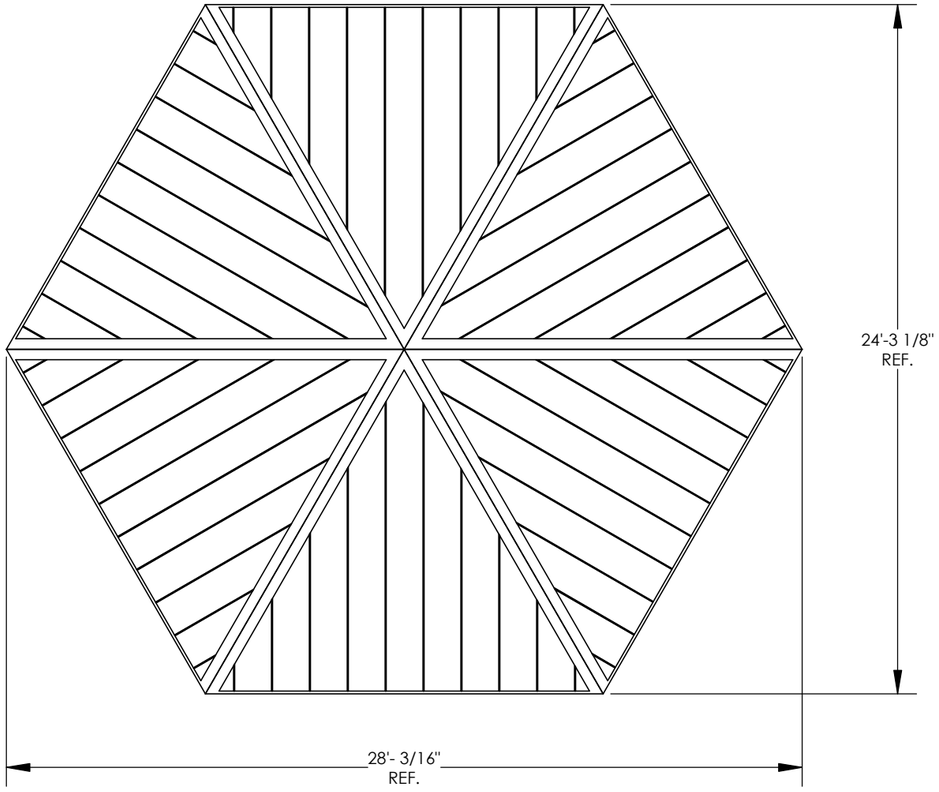
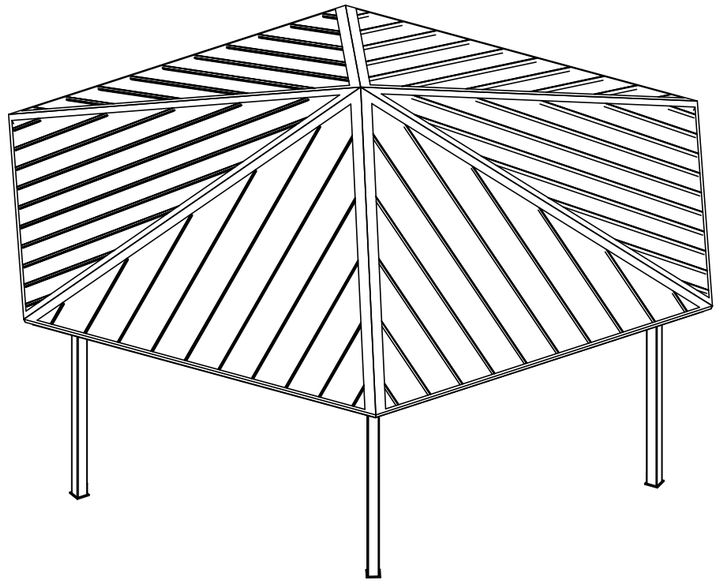
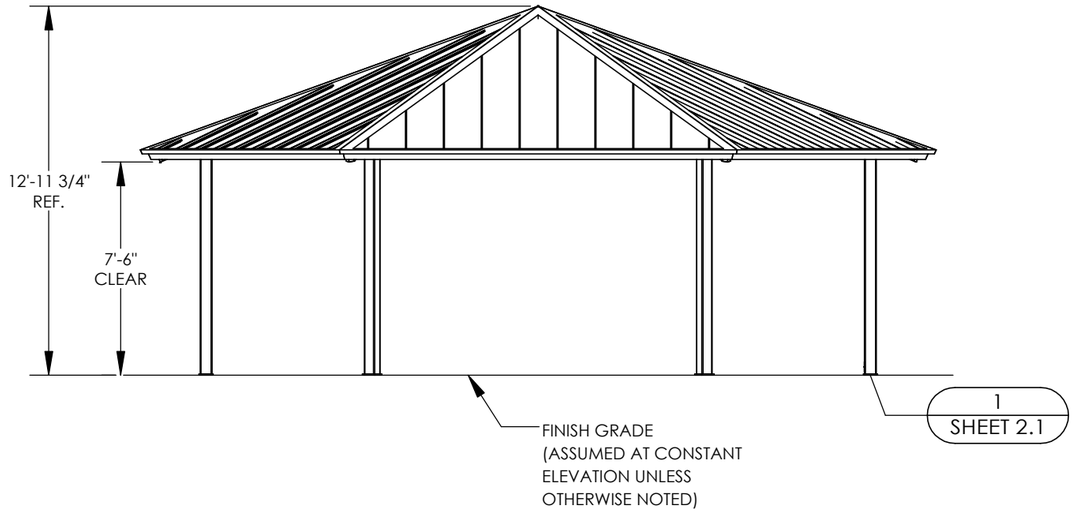
PRINT DATE: 7/22/2024
SCALE: 1:75
DRAWN BY: ryan.borah
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79984
CAD MODEL: ~P19792

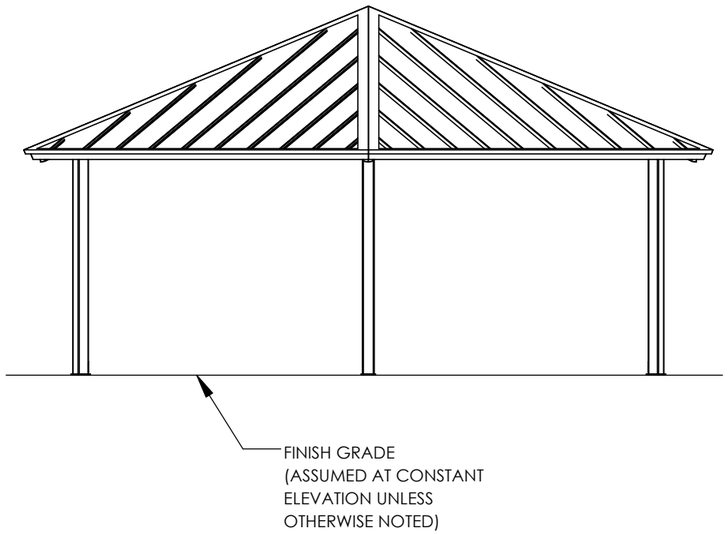
PROJECT: SUN SHELTERS - KESTREL PARK
PROJECT LOCATION: MADISON, WI
DRAWING: COVER SHEET

SHEET
CS









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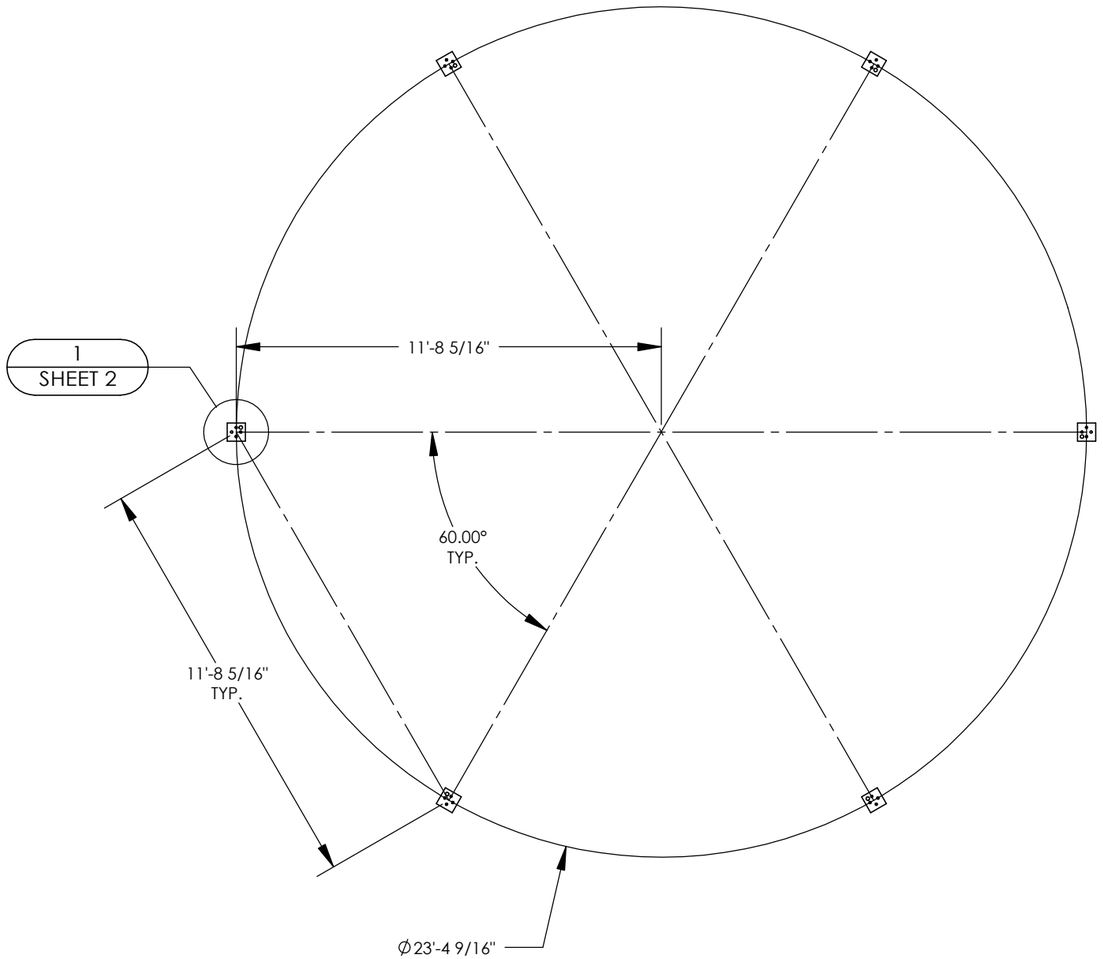
CREATION DATE: 11/15/2016
ORDER NO: 79984
CAD MODEL: ~P19792

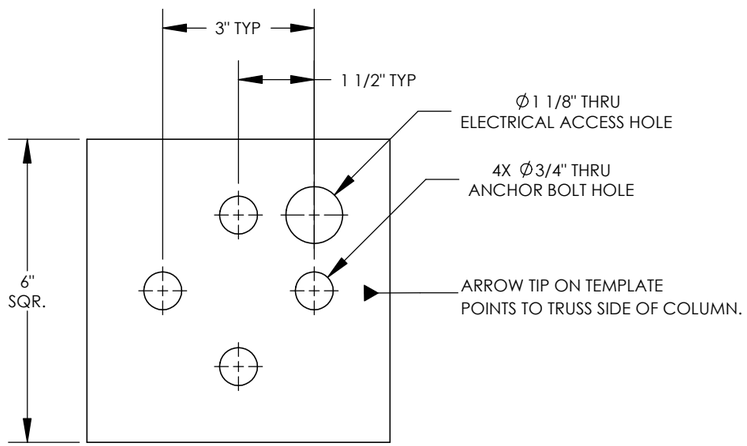
DRAWN BY: ryan.borah
REV LEVEL: A

PRINT DATE: 7/22/2024
SCALE: 1:64

PROJECT: SUN SHELTERS - KESTREL PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ARCHITECTURAL ELEVATIONS

SHEET
1





1/2 ANCHOR BOLT PATTERN
BASE PLATE THICKNESS: 1/2"

ANCHOR AND FOOTING LAYOUT NOTES:

1. ANCHORS MUST BE CENTERED IN FOOTINGS
2. FOOTINGS MUST BE TURNED TO ALIGN WITH COLUMN AND TRUSS CENTERLINE.

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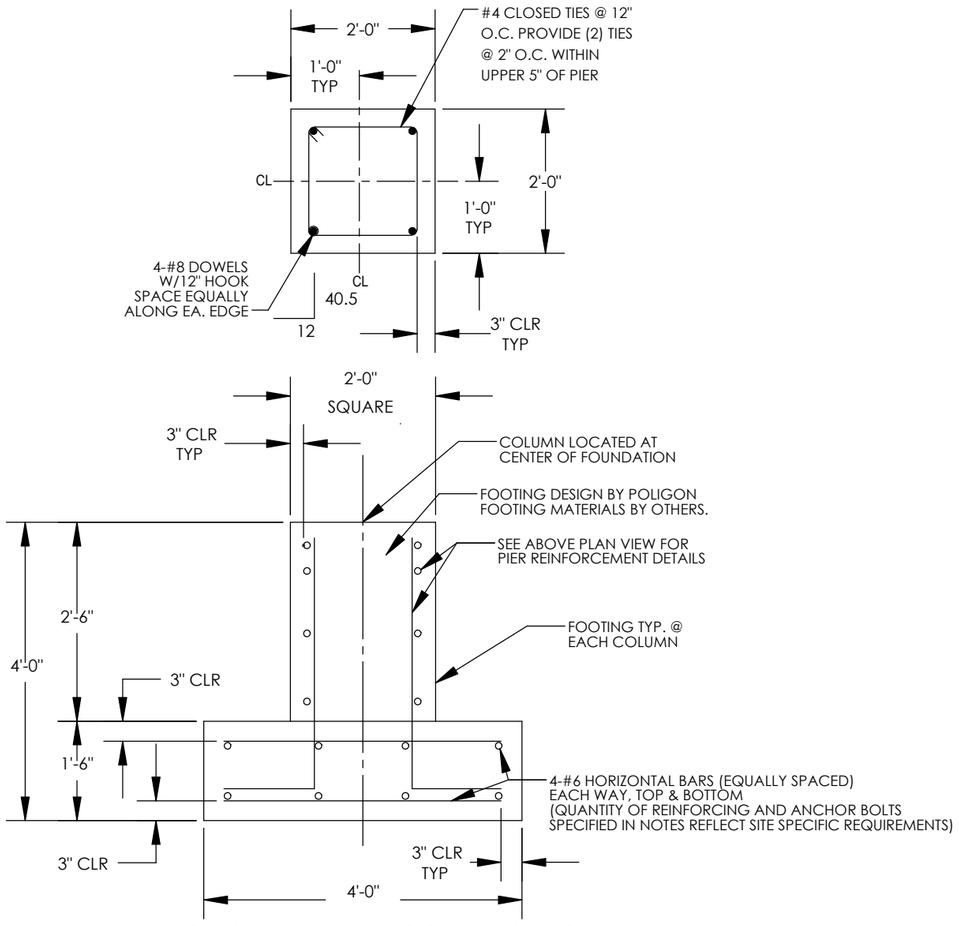
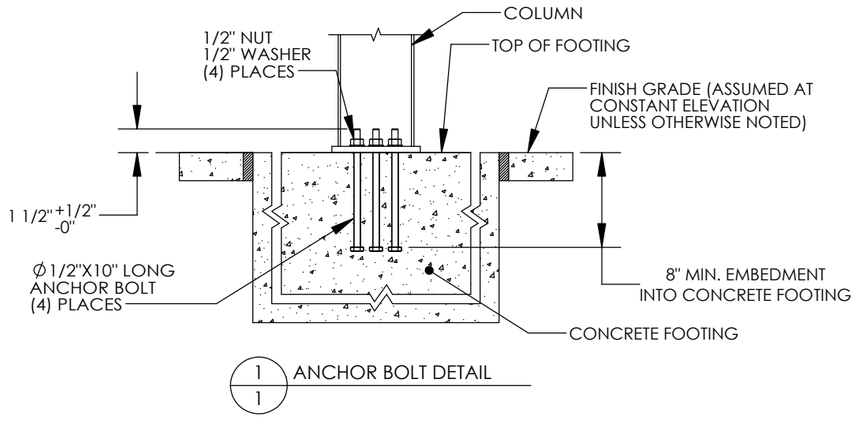
DRAWN BY: ryan.borah
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79984
CAD MODEL: ~P19792

PROJECT: SUN SHELTERS - KESTREL PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ANCHOR AND FOOTING LAYOUT

SHEET
2



PIER ON SPREAD PAD FOOTING OPTION



1/1 ANCHOR BOLT DETAIL

ANCHOR BOLT NOTES - INTERNAL (ANCHOR BOLTS LOCATED WITHIN COLUMN):

1. ANCHOR BOLTS SHALL BE ASTM A307 (GRADE A) MATERIAL UNLESS OTHERWISE NOTED.
2. ANCHOR BOLTS SHALL BE EITHER "HEADED" OR "THREADED WITH NUT" AS DEFINED IN THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL.
3. HOOKED ANCHOR BOLTS ARE NOT ACCEPTABLE.
4. ACCURATE ANCHOR BOLT PLACEMENT IS CRITICAL. TO ENSURE THE ANCHOR BOLT LAYOUT MEETS THE DIMENSIONS REQUIRED ON THE DRAWINGS, SURVEY (OR MEASURE) THE LOCATION OF ALL ANCHOR BOLTS PRIOR TO POURING THE FOOTINGS. AN ADDITIONAL SURVEY (OR MEASUREMENT) SHOULD BE MADE AFTER THE FOOTINGS ARE POURED TO CONFIRM THE ANCHOR BOLTS DID NOT SHIFT DURING THE CONCRETE POUR.
5. THE MANUFACTURER STRONGLY RECOMMENDS USING ANCHOR BOLT TEMPLATES BECAUSE THEY SIGNIFICANTLY IMPROVE THE ACCURACY OF ANCHOR BOLT PLACEMENT. AN ANCHOR BOLT TEMPLATE IS PROVIDED WITH ANY ANCHOR BOLT KIT PURCHASED.
6. IF OUTSIDE CONSULTING ENGINEERS ARE DESIGNING THE FOUNDATIONS FOR THIS STRUCTURE, THEY MUST REFER TO THE MANUFACTURER'S CALCULATIONS FOR MINIMUM CONCRETE PROPERTIES (COMPRESSIVE STRENGTH, EDGE DISTANCE, ETC.) REQUIRED FOR THE ANCHOR BOLT DESIGN.
7. ELECTRICAL ACCESS HOLE IS ALWAYS LOCATED IN THE COLUMN BASE PLATE AS SHOWN. BE SURE TO KEEP THE ANCHOR BOLT TEMPLATE PROPERLY ORIENTED WHEN ELECTRICAL ACCESS TO THE COLUMN IS REQUIRED. TEMPLATE MUST BE REMOVED BEFORE INSTALLING COLUMNS.
8. THE CALCULATIONS FOR THIS STRUCTURE ASSUME A PINNED COLUMN BASE.
9. THE FOLLOWING ADHESIVE ANCHORS MAY BE SUBSTITUTED FOR THE CAST-IN-PLACE ANCHOR BOLTS:
   -HILTI HIT-HY 200 (A OR R) V3 ADHESIVE WITH Ø 1/2" HAS-E ROD WITH 6" EFFECTIVE EMBEDMENT.
   CONTRACTOR SHALL FOLLOW ALL INSTALLATION SPECIFICATIONS AND REQUIREMENTS OF ANCHOR MANUFACTURER.

CONCRETE NOTES:

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE CURRENT "ACI MANUAL OF CONCRETE PRACTICE".
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE II OR TYPE V.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE CONCRETE MIX DESIGN MEETS THE "ACI MANUAL OF CONCRETE PRACTICE" REQUIREMENTS FOR CONCRETE BY EXPOSURE CLASS.
4. THE USE OF CHLORIDE ACCELERATORS IS NOT PERMITTED.
5. COARSE AGGREGATE SHALL BE #57 OR LARGER.
6. CONCRETE AT PLACEMENT SHALL HAVE A SLUMP OF 4" +/- 1".
7. MINIMUM CONCRETE COMPRESSIVE STRENTGH AT 28 DAYS: 4500 PSI.
8. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A615 (DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A305) AS FOLLOWS:
   GRADE 60: #4 BARS AND LARGER
   GRADE 40: #3 BARS
9. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
10. MAINTAIN 3" CONCRETE COVERAGE TO FACE OF BARS UNLESS OTHERWISE NOTED.
11. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
12. WELDING OF REINFORCEMENT IS NOT ALLOWED.
13. ALL EXPOSED EXTERNAL CORNER OF FOUNDATIONS TO BE CHAMFERED BY 3/4" BY 45 DEGREES UNLESS NOTED OTHERWISE.
14. ALL NEW CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OF REMOVING FORMWORK. CURING SHALL BE EITHER A MOIST CURE METHOD OR THE USE OF A CURING COMPOUND.

FOUNDATION NOTES:

1. FOUNDATIONS SHALL BEAR ON COMPETENT, UNDISTURBED SOIL OR 95% COMPACTED FILL. IF SIGNS OF ORGANIC MATERIAL, UNCONTROLLED FILL, CLAY OR SILT, HIGH WATER TABLE OR OTHER POSSIBLE DETRIMENTAL CONDITIONS ARE FOUND, CONSTRUCTION OF THE FOUNDATIONS MUST BE STOPPED AND A GEOTECHNICAL ENGINEER BE CONTACTED.
2. NO FOUNDATIONS SHALL BE PLACED INTO OR ADJACENT TO SUBGRADE CONTAINING WATER, ICE, FROST, ORGANIC OR LOOSE MATERIAL.
3. WATER SHALL NOT BE PERMITTED TO ACCUMULATE IN FOUNDATION EXCAVATIONS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCAL FROST DEPTH REQUIREMENT PRIOR TO CONSTRUCTION.
5. IF FOUNDATIONS SHOWN DO NOT MEET LOCAL FROST DEPTH REQUIREMENTS, EXTEND THE DRILLED PIER FOUNDATION AS REQUIRED, EXTENDING THE VERTICAL BARS AND PROVIDING ADDITIONAL TIES TO MEET SPACING REQUIREMENTS AS SHOWN. IF FROST DEPTH REQUIREMENTS ARE NOT MET, AND NO DRILLED PIER DESIGN IS PROVIDED, CONTACT POLIGON.
6. ALLOWABLE SOIL PRESSURES (AS APPLICABLE):

SPREAD PAD	
VERTICAL BEARING	2000 PSF
LATERAL COHESION	130 PSF

THE FOUNDATION DESIGN CONTAINED HEREIN IS SITE SPECIFIC, AND IS BASED ON KESTRAL PARK GEOTECH C24051-7 PLAYGROUND & SHELTER, KESTRAL PARK, BY CGC INC. DATED 6/8/2024. REPORT NO. C24051.
PROPER CARE MUST BE TAKEN TO ENSURE ANY AND ALL RECOMMENDATIONS, OF THE ABOVE-MENTIONED REPORT, FOR SITE PREPARATION, SOIL PERFORMANCE AND FOUNDATION DESIGN ARE MET. IF CONDITIONS ARE PRESENT THAT DO NOT ALLOW FOR THESE RECOMMENDATIONS TO BE MET, THE GEOTECHNICAL ENGINEER MUST BE CONTACTED.

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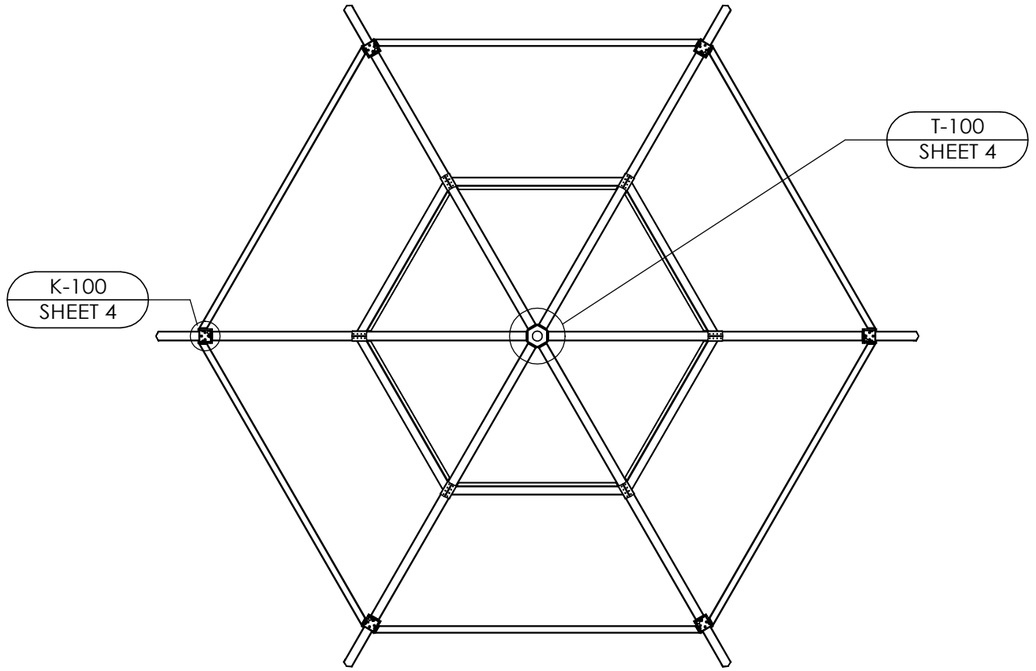
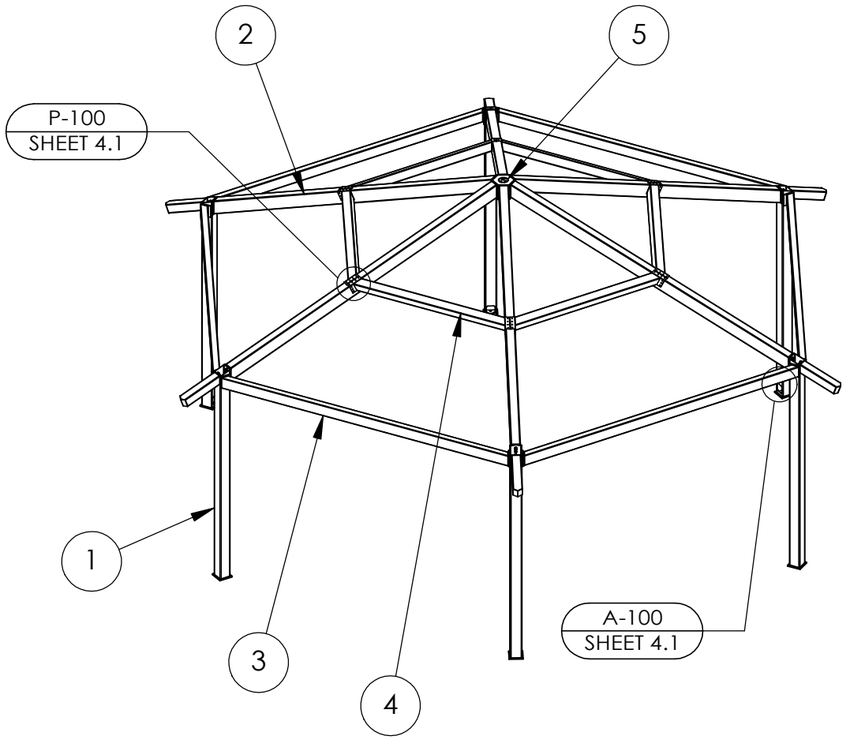
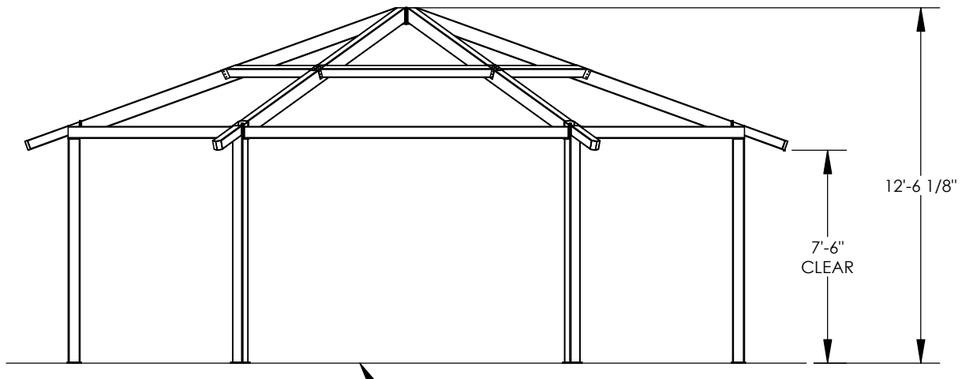
PRINT DATE: 7/22/2024
SCALE: 1:12
DRAWN BY: ryan.borah
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79984
CAD MODEL: ~P19792

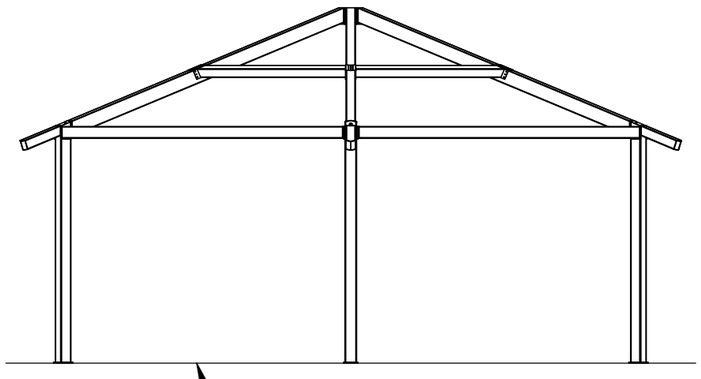
PROJECT: SUN SHELTERS - KESTREL PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ANCHOR AND FOOTING DETAILS

SHEET
2.1









ITEM	QTY.	PART NO.	DESCRIPTION	MATERIAL	WEIGHT
5	1	-	HEX C-RING ASM	3/8" PLATE	28.62
4	6	-	PURLIN A ASM	HSS4"X4"X1/8"	40.07
3	6	-	T-MEM ASM	HSS5"X3"X1/8"	76.22
2	6	-	TRUSS ASM	HSS6"X4"X1/8"	100.01
1	6	-	COLUMN ASM	HSS5"X5"X3/16"	121.92

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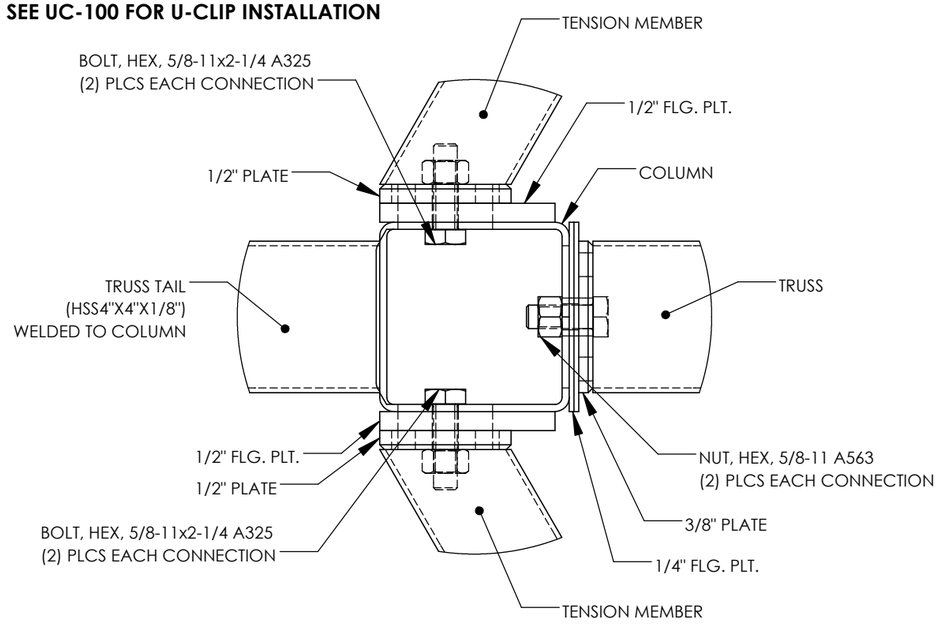
DRAWN BY: ryan.borah
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79984
CAD MODEL: ~P19792

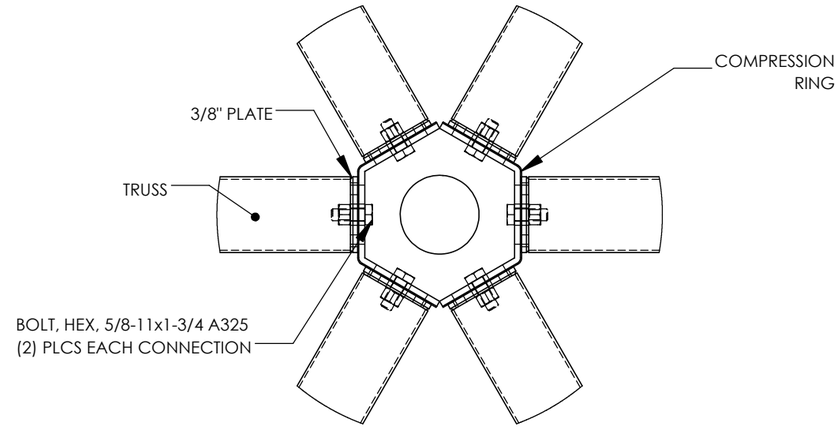
PROJECT: SUN SHELTERS - KESTREL PARK
PROJECT LOCATION: MADISON, WI
DRAWING: STRUCTURAL FRAMING PLAN

SHEET
3

NOTE:
SEE UC-100 FOR U-CLIP INSTALLATION



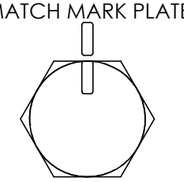
COLUMN CONNECTIONS	K-100



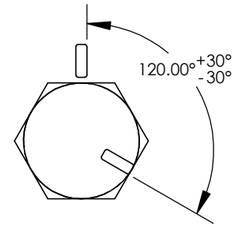
COMPRESSION MEMBER CONNECTION	T-100

TURN-OF-NUT PRETENSIONING METHOD:
THESE STEPS ILLUSTRATE THE REQUIREMENTS OUTLINED IN THE AISC SPECIFICATION. THE ROTATION INDICATED IS ACCURATE FOR MOST BOLT DIAMETERS AND LENGTHS BUT IT IS THE RESPONSIBILITY OF THE INSTALLER TO MEET AISC REQUIREMENTS.

STEP ONE:
AFTER SNUG TIGHT,
MATCH MARK PLATE



STEP TWO:
THEN TURN BOLT/NUT PAST
SNUG TIGHT 1/3 TURN



CONNECTION NOTES:

1. HIGH STRENGTH BOLTS SHALL BE ASTM F3125 (A325, TYPE 1) MATERIAL.
2. HIGH STRENGTH NUTS SHALL BE ASTM A563 (GRADE DH) MATERIAL.
3. HIGH STRENGTH WASHERS SHALL CONFORM TO ASTM F436.
4. UNLESS A SNUG-TIGHT JOINT IS PERMITTED IN THE CONNECTION DETAIL, ALL BOLTS ARE TO BE INSTALLED BY ONE OF THE FOLLOWING PRETENSIONING METHODS AS SPECIFIED IN THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", SECTION 8:
   A. TURN-OF-NUT PRETENSIONING
   B. CALIBRATED WRENCH PRETENSIONING
5. THE SNUG-TIGHT CONDITION IS 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 CONNECTED PLIES INTO FIRM CONTACT.
6. ANCHOR BOLTS NEED NOT BE TIGHTENED PAST SNUG-TIGHT.
7. WHEN INSTALLING BOLTS REFER TO SECTIONS 8.4.1, 8.4.2, AND 8.4.3 OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" FOR GUIDANCE.
8. LOCAL JURISDICTIONS MAY REQUIRE AN INSPECTOR TO BE PRESENT TO WITNESS HARDWARE INSTALLATION AND INDEPENDENT TESTING. INSPECTION REQUIREMENTS SHOULD BE VERIFIED BY INSTALLER PRIOR TO STEEL ERECTION.
9. ERECTION OF THE FRAMING MEMBERS WILL REQUIRE THE MAIN COLUMNS TO BE PLUMB SQUARE AND TIGHTENED TO THE TRUSSES AND/OR TENSION MEMBERS BEFORE INSTALLING THE PURLINS. PURLINS, IF REQUIRED, MUST BE AS SHOWN IN FRAMING PLAN.
10. TEMPORARY SHORING OR BRACING SHALL BE USED TO COMPACT THE JOINTS UNTIL THE CONNECTED PLIES ARE IN FIRM CONTACT PRIOR TO PRETENSIONING.
11. PRIOR TO THE ERECTION OF SHELTER COMPONENTS, IT IS RECOMMENDED TO CHASE AND TAP STRUCTURAL HARDWARE.
12. ALL BOLTS MUST BE LUBRICATED WITH WAX TO ASSIST IN PROPER TIGHTENING. TO LUBRICATE A BOLT IN THE FIELD, APPLY THE WAX STICK DOWN THE LENGTH OF THE BOLT'S THREADS.
13. TO PREVENT RUST STAINING OF FINISH, ALL METAL SHAVINGS MUST BE REMOVED AFTER INSTALLATION. ENSURE NO SHAVING ARE TRAPPED BETWEEN MATING SURFACES.
14. TOUCH-UP PAINT MUST BE APPLIED TO ALL EXPOSED FASTENERS. PERIODIC TOUCH-UP AT THESE CONNECTIONS IS REQUIRED.

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PRINT DATE: 7/22/2024
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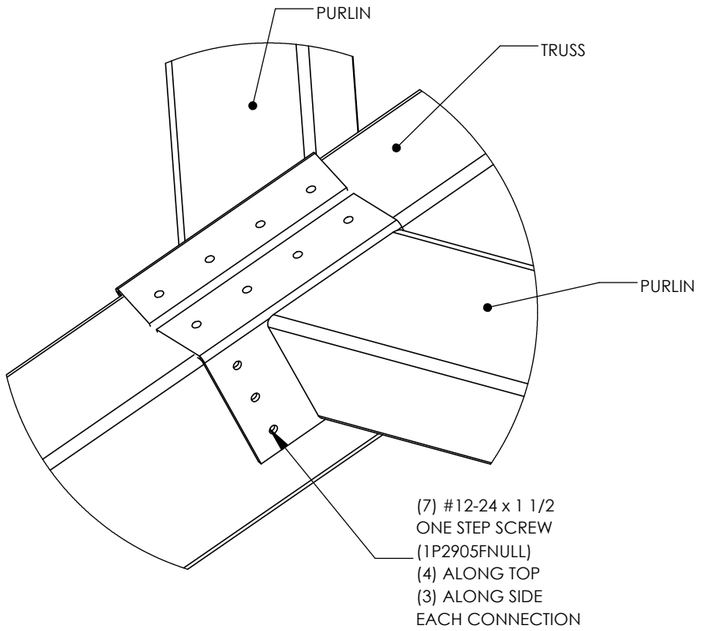
DRAWN BY: ryan.borah
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79984
CAD MODEL: ~P19792

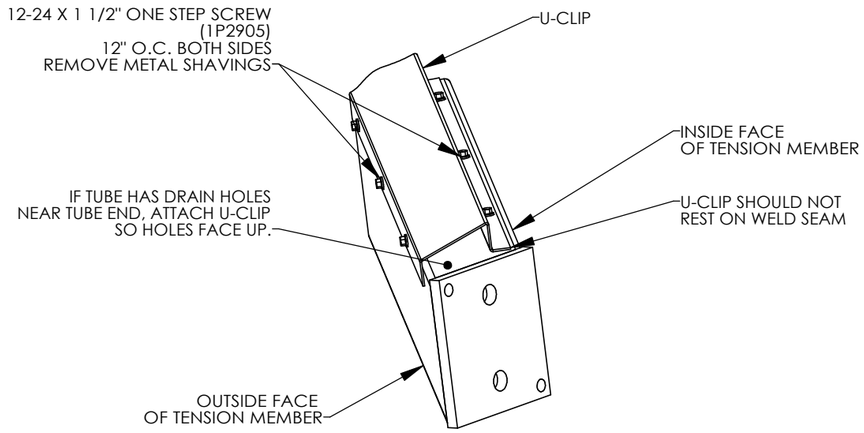
PROJECT: SUN SHELTERS - KESTREL PARK
PROJECT LOCATION: MADISON, WI
DRAWING: FRAME CONNECTION DETAILS

SHEET
4

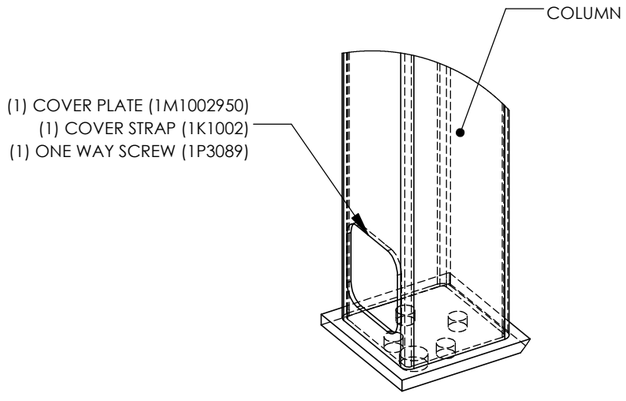


PURLIN CONNECTION | P-100

NOTE:
U-CLIP MUST BE ATTACHED TO TENSION MEMBER AS SHOWN PRIOR TO BUILDING ASSEMBLY.



U-CLIP CONNECTION | UC-100



ANCHOR ACCESS COVER PLATE | A-100

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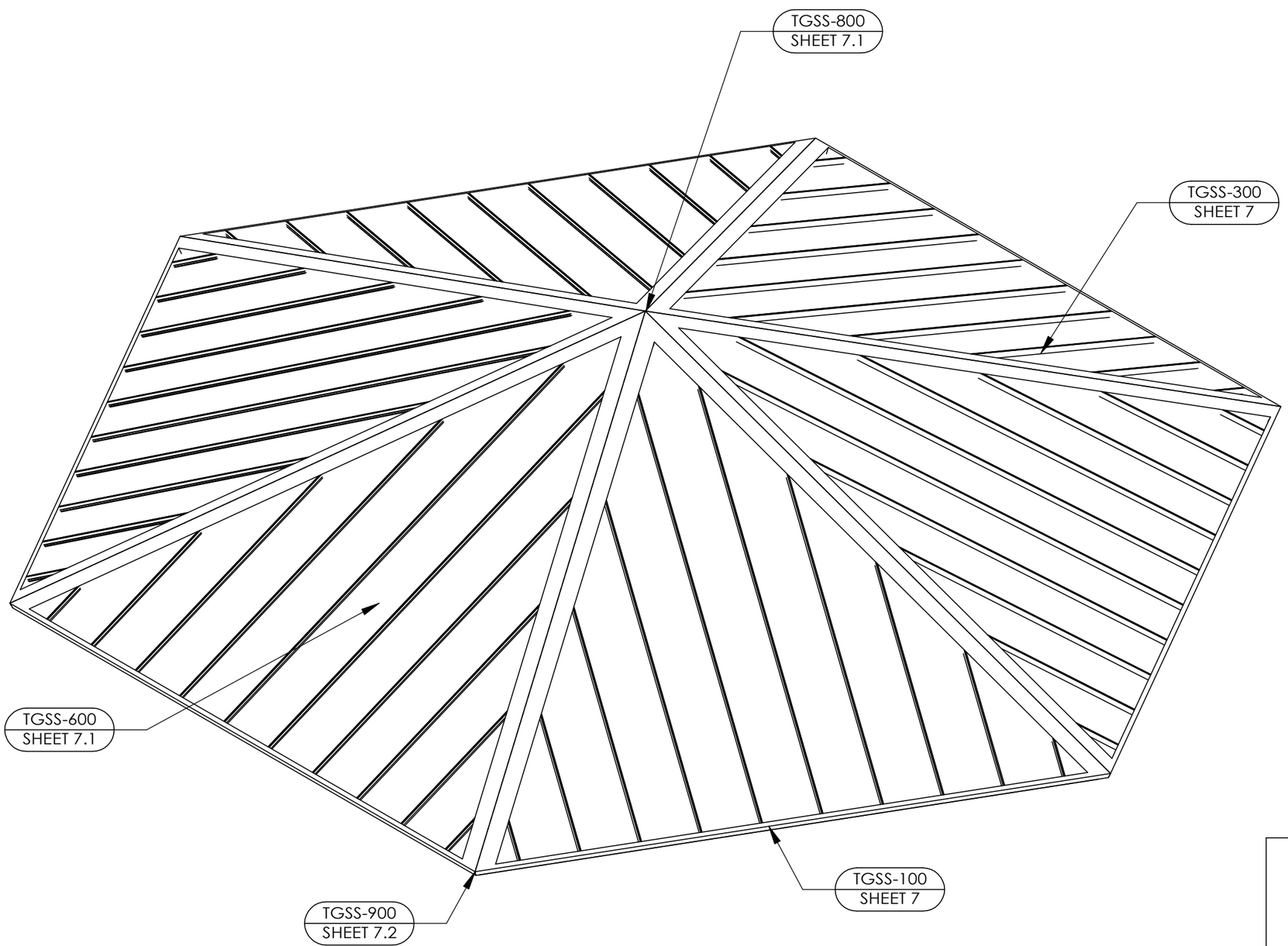
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79984
CAD MODEL: ~P19792

PROJECT: SUN SHELTERS - KESTREL PARK
PROJECT LOCATION: MADISON, WI
DRAWING: FRAME CONNECTION DETAILS

SHEET
4.1



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DRAWN BY: ryan.borah
ORDER NO: 79984
SCALE: 1:48
REV LEVEL: A
CAD MODEL: ~P19792

PROJECT: SUN SHELTERS - KESTREL PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF OVERVIEW

SHEET 6

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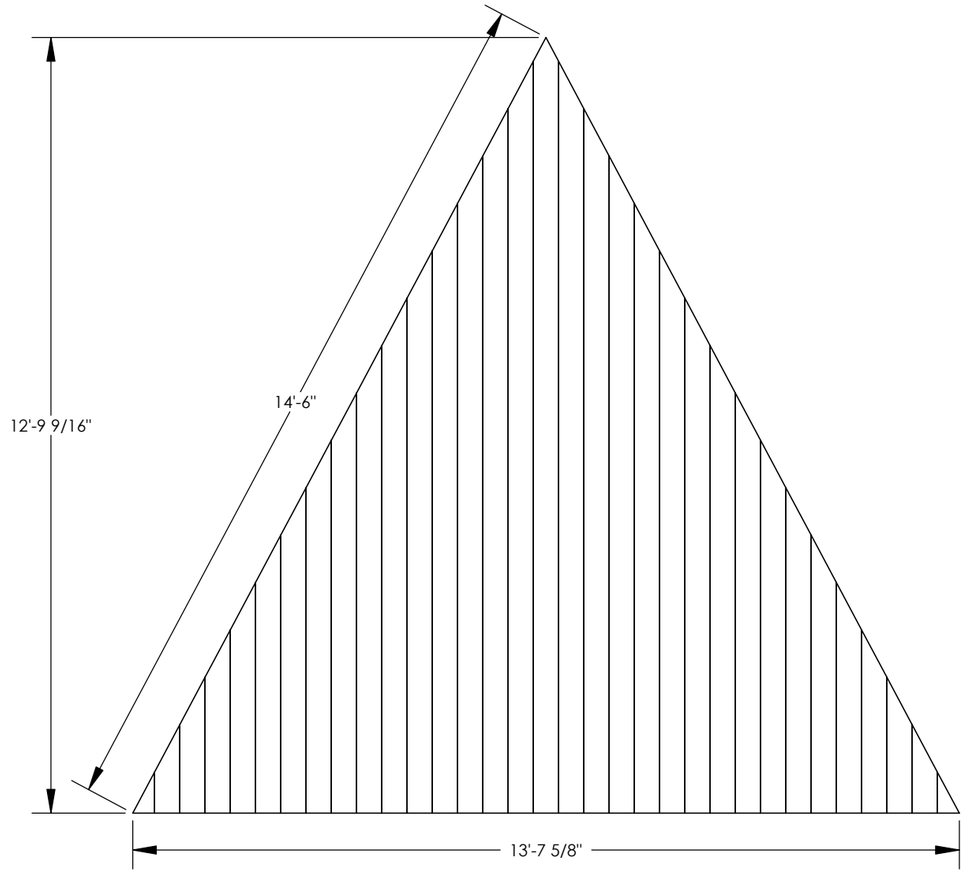
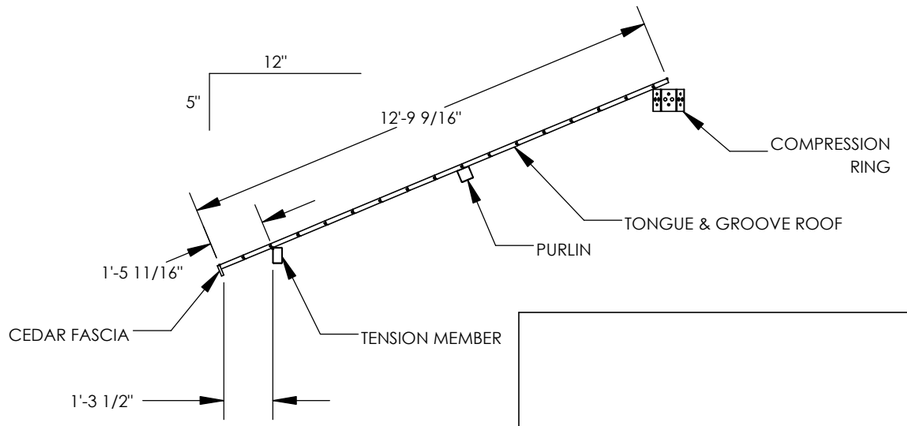


TONGUE & GROOVE NOTES:

1. THE FIRST PLANK SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK. MAKE SURE PLANKS EXTEND ENOUGH TO COVER EAVE, TRUSSES, AND/OR THE CENTER OF THE PEAK.
2. THE T&G PROVIDED MAY CONTAIN SOME MINOR IMPERFECTIONS. REMOVE THESE IMPERFECTIONS AS REQUIRED AND USE REMAINDER OF MATERIAL TO ATTAIN MAXIMUM YIELD.
3. NO END JOINTS IN DECKING BETWEEN STRUCTURAL FRAMING AND EAVE OF DECKING.
4. A MINIMUM OF 24" SPACING IS REQUIRED BETWEEN ALL ADJACENT END JOINTS. BOARD LAYOUT MAY REQUIRE VISIBLE SPLICES.
5. IF PRE-STAINED T&G IS ORDERED, TOUCH-UP AT FIELD CUT EDGES MAY BE NECESSARY.
6. POLIGON RECOMMENDS ALL T&G BE STAINED/SEALED TO IMPROVE LONG TERM PERFORMANCE.

FOR BEST APPEARANCE POLIGON SUGGESTS THAT ALL END JOINTS BE MITERED @ 45°



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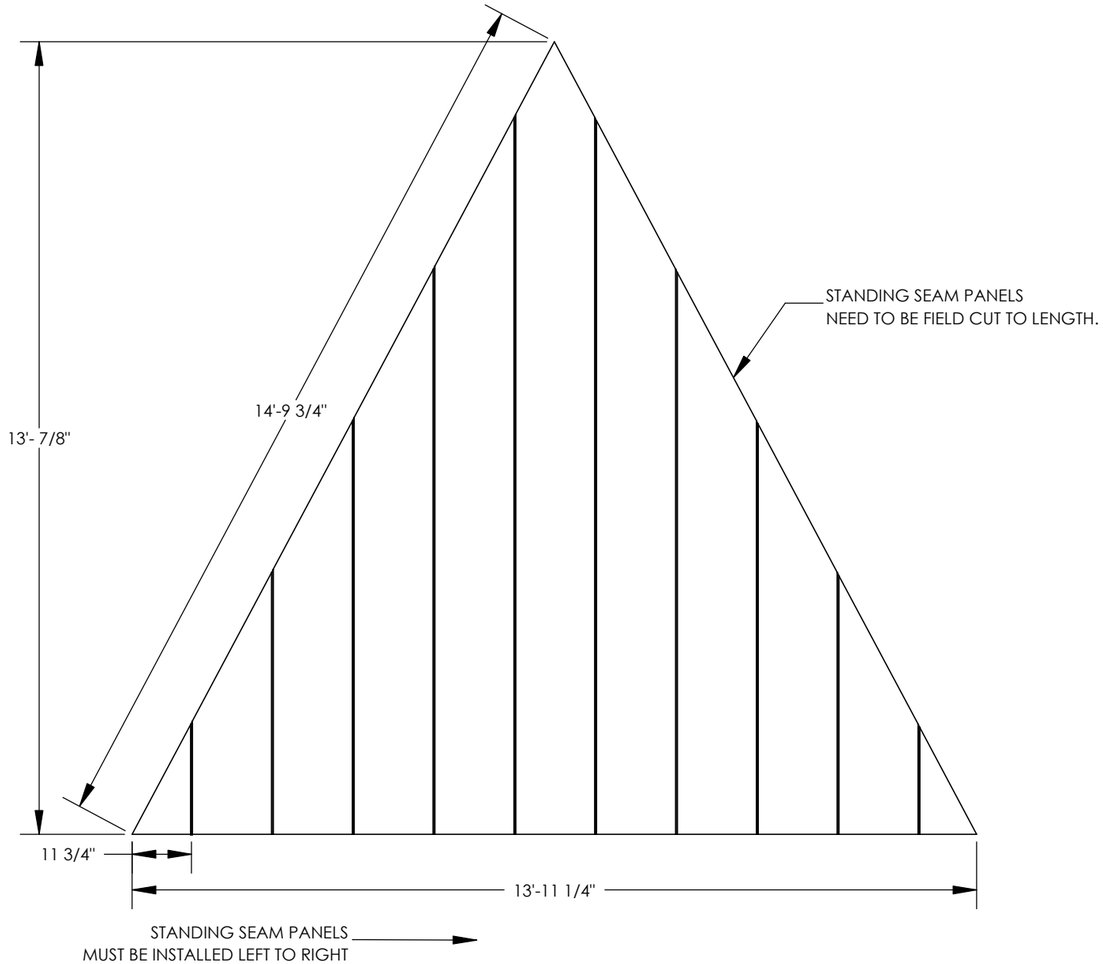
ORDER NO: 79984
CAD MODEL: ~P19792

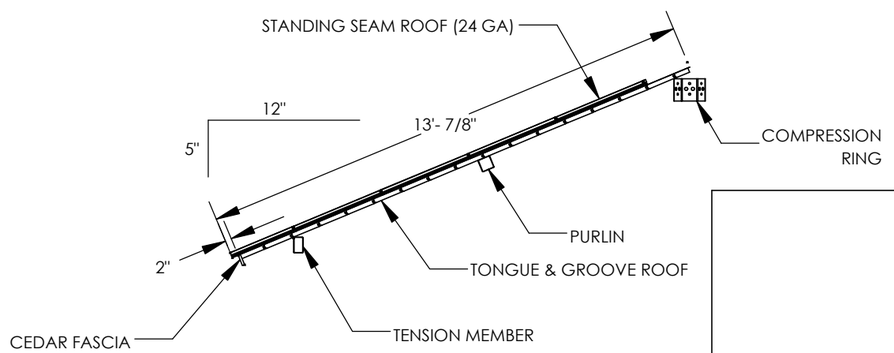
PROJECT: SUN SHELTERS - KESTREL PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF LAYOUT

SHEET
6.1



MULTI-RIB NOTES:

1. THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE SYSTEMS. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGNS OR CODES. THE DETAILS MAY REQUIRE CHANGES OR REVISIONS DUE TO FIELD CONDITIONS.
2. IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.
3. THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH ALL ERECTION INSTRUCTIONS BEFORE STARTING WORK.
4. THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.
5. FLASHING AND TRIM SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ANY EXPOSED FASTENERS EQUALLY SPACED FOR THE BEST APPEARANCE.
6. SEALANT SHALL BE FIELD APPLIED ON DRY, CLEAN SURFACES. SOME FIELD CUTTING AND FITTING OF PANELS AND FLASHING IS TO BE EXPECTED BY THE ERECTOR AND MINOR FIELD CORRECTIONS ARE A PART OF NORMAL ERECTION WORK.
7. WORKMANSHIP SHALL BE OF THE BEST INDUSTRY STANDARDS AND INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN.
8. METAL SHAVINGS FROM DRILLING OR INSTALLATION OF ROOF FASTENERS MUST BE CAREFULLY REMOVED FROM THE ROOF BY BRUSHING OR SWEEPING AT THE END OF EACH DAY DURING INSTALLATION. SHAVINGS LEFT ON THE ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH.



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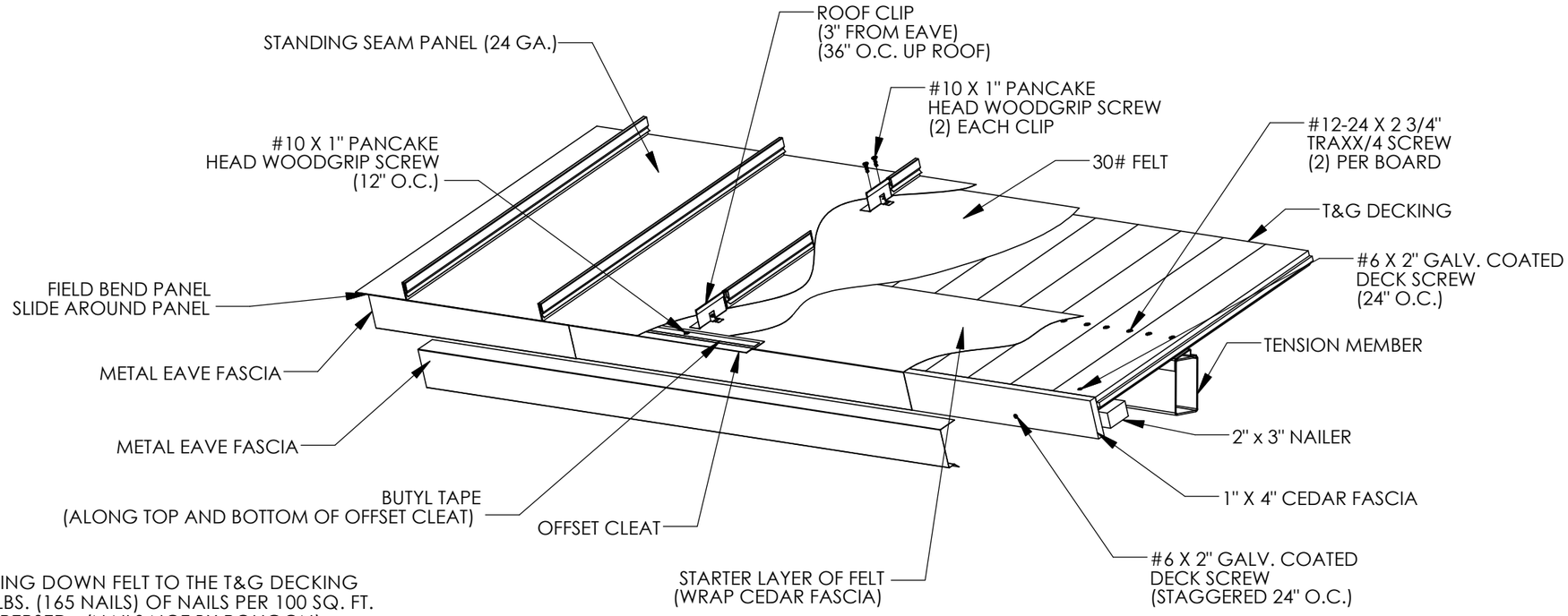
ORDER NO: 79984
CAD MODEL: ~P19792

PROJECT: SUN SHELTERS - KESTREL PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF LAYOUT

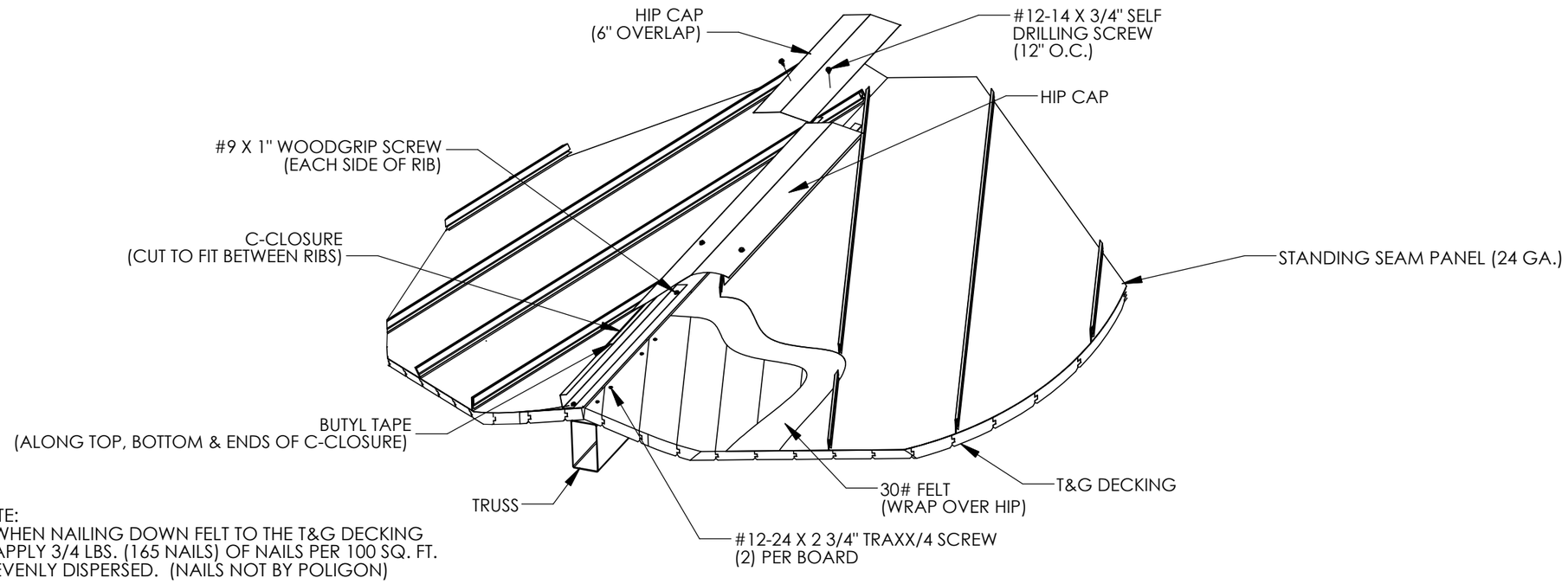
SHEET
6.2



NOTE:
WHEN NAILING DOWN FELT TO THE T&G DECKING APPLY 3/4 LBS. (165 NAILS) OF NAILS PER 100 SQ. FT. EVENLY DISPERSED. (NAILS NOT BY POLIGON)

EAVE DETAIL | TGSS-100

2022A



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TRUSS DETAIL | TGSS-300

2023A

PART DESCTIPTIONS:

- 1/8" POP RIVET
- #6 x 2" GALV. COATED DECK SCREW
- #9x1" WOODGRIP SCREW
- #12-14x3/4" SELF DRILLING SCREW
- #12-24x2.75 TRAXX/4 SCREW
- 1" GALVANIZED ROOFING NAIL (NOT BY POLIGON)

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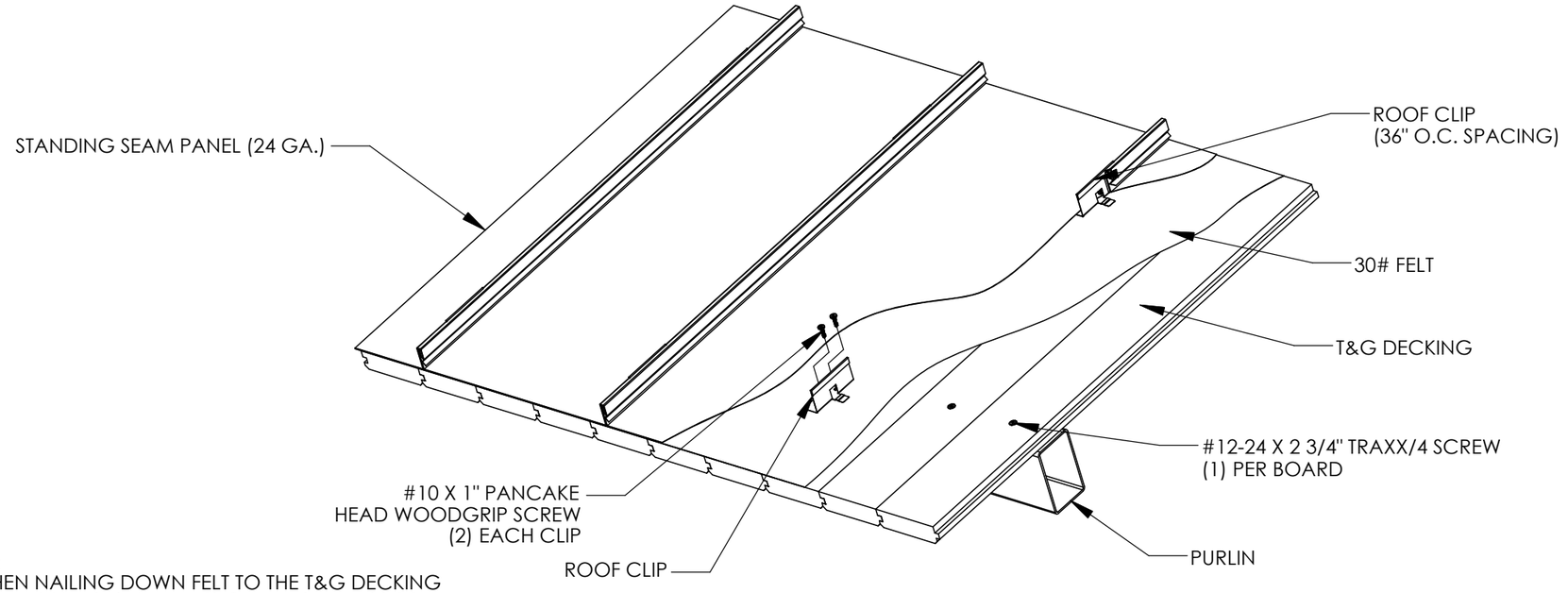
ORDER NO: 79984
CAD MODEL: ~P19792

PROJECT: SUN SHELTERS - KESTREL PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF CONNECTION DETAILS

SHEET 7



NOTE:
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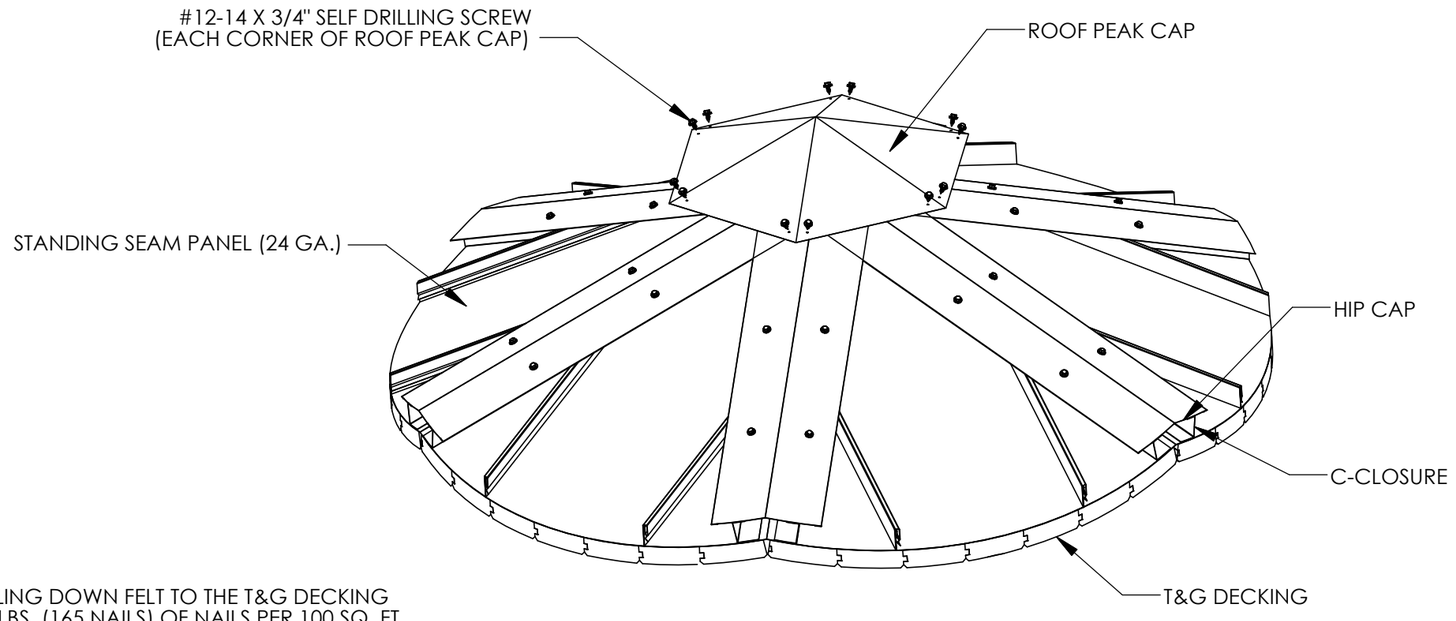
APPLY 3/4 LBS. (165 NAILS) OF NAILS PER 100 SQ. FT.
EVENLY DISPERSED. (NAILS NOT BY POLIGON)

2022A | MID SPAN DETAIL | TGSS-600



NOTE:
WHEN NAILING DOWN FELT TO THE T&G DECKING
APPLY 3/4 LBS. (165 NAILS) OF NAILS PER 100 SQ. FT.
EVENLY DISPERSED. (NAILS NOT BY POLIGON)

2022A | ROOF PEAK DETAIL | TGSS-800

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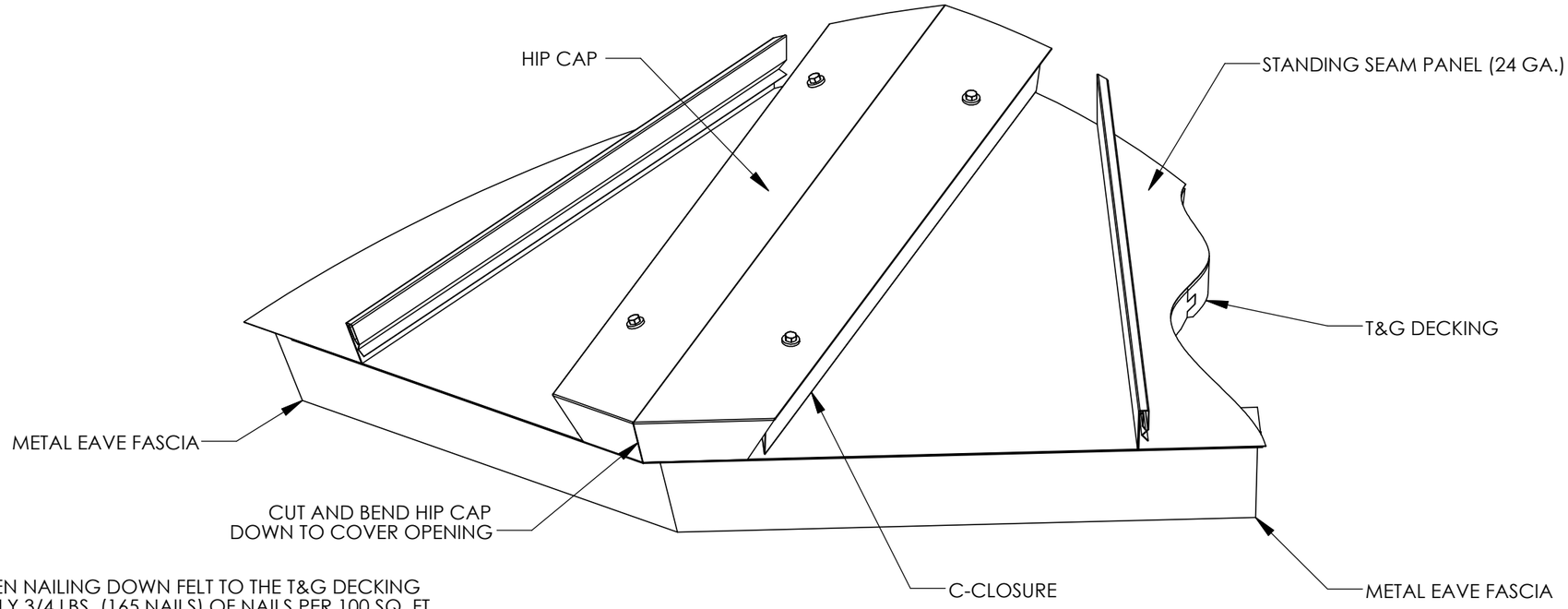
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79984
CAD MODEL: ~P19792

PROJECT: SUN SHELTERS - KESTREL PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF CONNECTION DETAILS

SHEET
7.1



NOTE:
WHEN NAILING DOWN FELT TO THE T&G DECKING
APPLY 3/4 LBS. (165 NAILS) OF NAILS PER 100 SQ. FT.
EVENLY DISPERSED. (NAILS NOT BY POLIGON)

2022A

CORNER DETAIL

TGSS-900

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DRAWN BY: ryan.borah
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79984
CAD MODEL: ~P19792

PROJECT: SUN SHELTERS - KESTREL PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF CONNECTION DETAILS

SHEET
7.2

A Division of PORTERCORP 4240 N. 136th AVE HOLLAND, MI 49424 (616) 888-3500

PROJECT NAME: SUN SHELTERS - NORTH STAR PARK

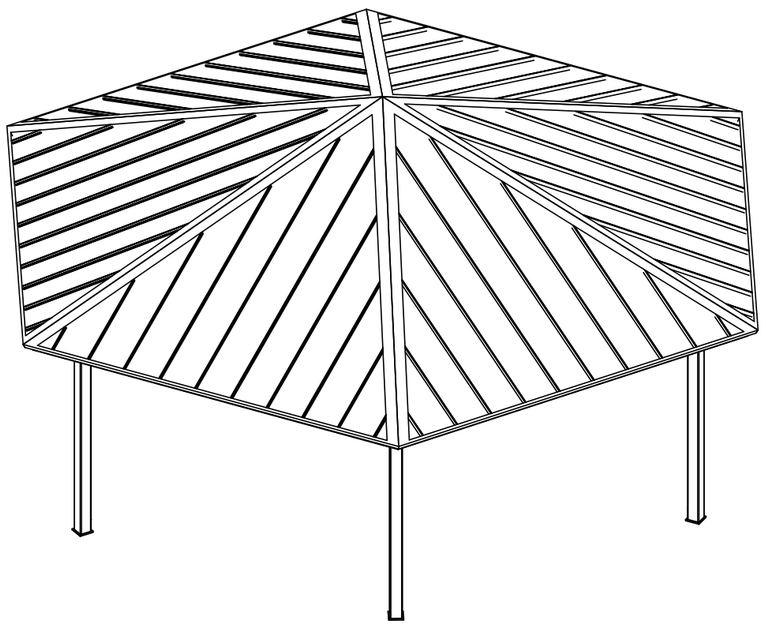
PROJECT LOCATION: MADISON, WI

BUILDING TYPE: HXE 28

ROOF TYPE: STANDING SEAM (24 GA) OVER STAINED T & G

BUILDING NUMBER: P19799

ORDER NUMBER: 79993



DRAWING LIST:

SHEET NUMBER	DRAWING DESCRIPTION
CS	COVER SHEET
1	ARCHITECTURAL ELEVATIONS
2-2.1	ANCHOR AND FOOTING LAYOUT / DETAILS
3	STRUCTURAL FRAMING PLAN
4-4.1	FRAME CONNECTION DETAILS
5	ELECTRICAL VIEWS-N/A
6-6.2	ROOF LAYOUT
7-7.2	ROOF CONNECTION DETAILS

MANUFACTURER NOTES:

MATERIALS:

DESCRIPTION	ASTM DESIGNATION
TUBE STEEL	A500 (GRADE C)
SCHEDULE PIPE	A53 (GRADE B)
RMT PIPE	A519
LIGHT GAGE COLD FORMED	A1003 (GRADE 50)
STRUCTURAL STEEL PLATE	A36
ROOF PANELS (STEEL)	A653
ANCHOR BOLTS	SEE SHEET 2.1

GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED TO ONLY SUPPORT WHAT IS SHOWN ON THESE DRAWINGS. POLIGON MUST BE CONTACTED IF ANYTHING ELSE IS TO BE ATTACHED TO THIS STRUCTURE (WALLS, COLUMN WRAPS, RAILINGS, ETC.) SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.
2. THE ENGINEERING SEAL FOR THE STRUCTURE DETAILED IN THESE DRAWINGS IS ONLY VALID IF PORTER CORP DESIGNS AND FABRICATES THE STEEL COMPONENTS. FABRICATING THE STEEL COMPONENTS ELSEWHERE VOIDS THE ENGINEERING PROVIDED BY PORTER CORP.
3. UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 20' SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EAVE HEIGHT EQUAL TO OR GREATER THAN THE EAVE HEIGHT OF THIS STRUCTURE (SEE SNOW DESIGN DATA). IF THAT SEPARATION DOES NOT EXIST AND THE GROUND SNOW LOAD (Pg) IS GREATER THAN 0 PSF, POLIGON MUST BE CONTACTED SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.
4. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED IN THE GOVERNING BUILDING CODE.
5. ALL WELDING IS PERFORMED BY AMERICAN WELDING SOCIETY (AWS) CERTIFIED WELDERS AND CONFORMS TO AWS D1.1 OR D1.3 AS REQUIRED.
6. PARTS SHOWN MAY BE UPGRADED DUE TO STANDARDIZED FABRICATION. REFER TO THE SHIPPING BILL OF MATERIALS AND FINAL INSTALLATION INSTRUCTIONS INCLUDED WITH THE STRUCTURE FOR POSSIBLE SUBSTITUTIONS AND IMPROVEMENTS.
7. FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT THE PRIMARY FRAME INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM FIVE (5) YEARS DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.
8. THE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING BRACING, SHORING, LAYDOWN AND PROTECTION OF CONSTRUCTION MATERIALS, ETC. TEMPORARY SHORING AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT ELECTRIC WIRING, IF REQUIRED, BE RUN THROUGH THE STRUCTURAL MEMBERS BEFORE THE BUILDING IS ERECTED.
10. MAKING HOLES, CUTS OR MODIFICATIONS TO THE STRUCTURAL STEEL MEMBERS IS NOT PERMITTED IN THE FIELD WITHOUT SPECIFIC APPROVAL OF POLIGON.

CERTIFICATES:

MIAMI-DADE COUNTY CERTIFICATE OF COMPETENCY NO. 23-0915.11
PCI (POWDER COATING INSTITUTE) 4000 CERTIFIED

FABRICATOR APPROVALS:

CITY OF PHOENIX, AZ APPROVED FABRICATOR #C08-2010
CITY OF LOS ANGELES, CA APPROVED FABRICATOR #FB01596
CITY OF RIVERSIDE, CA APPROVED FABRICATOR #SF_000042
CITY OF HOUSTON, TX APPROVED FABRICATOR #470
CLARK COUNTY, NV APPROVED FABRICATOR #264
STATE OF UTAH APPROVED FABRICATOR 02008-14
AISC APPROVED FABRICATOR C-00024530
AWS CERTIFIED WELDING FABRICATOR #221003F

DESIGN CRITERIA:

GENERAL:
2015 INTERNATIONAL BUILDING CODE
RISK CATEGORY: II

DEAD LOAD:
ROOF DEAD LOAD: 6 PSF
FRAME DEAD LOAD: SELF WEIGHT

LIVE LOAD:
ROOF LIVE LOAD: 20 PSF

SNOW DESIGN DATA:
GROUND SNOW LOAD (Pg): 30 PSF
FLAT ROOF SNOW LOAD (Pf): 25 PSF
SNOW EXPOSURE FACTOR (Ce): 1.0
SNOW LOAD IMPORTANCE FACTOR (Is): 1.0
THERMAL FACTOR (Ct): 1.2
ROOF SLOPE FACTOR (Cs): 1.0
DRIFT SURCHARGE LOAD (Pd): 0 PSF
WIDTH OF SNOW DRIFT (w): 0 FT
MINIMUM HORIZONTAL SEPARATION DISTANCE (s): 20 FT

WIND DESIGN DATA:
BASIC WIND SPEED (V): 115 MPH
ALLOWABLE STRESS DESIGN WIND SPEED (Vasd): 89 MPH
GUST EFFECT FACTOR (G): 0.85
INTERNAL PRESSURE COEFFICIENT (GCpi): 0
WIND EXPOSURE: C

SEISMIC DESIGN DATA:
STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
SEISMIC IMPORTANCE FACTOR (Ie): 1.0
SEISMIC DESIGN CATEGORY: B
SEISMIC SITE CLASS: D
SHORT SPECTRAL RESPONSE (Ss): 0.32
1-SEC SPECTRAL RESPONSE (S1): 0.08
DESIGN SHORT SPECTRAL RESPONSE (SDS): 0.33
DESIGN 1-SEC SPECTRAL RESPONSE (SD1): 0.13
SEISMIC RESPONSE COEFFICIENT (Cs): 0.11
RESPONSE MODIFICATION COEFFICIENT (R): 3.00
EQUIVALENT LATERAL FORCE PROCEDURE
SEE CALCULATIONS FOR ADDITIONAL DATA

ADDITIONAL CRITERIA:
NONE

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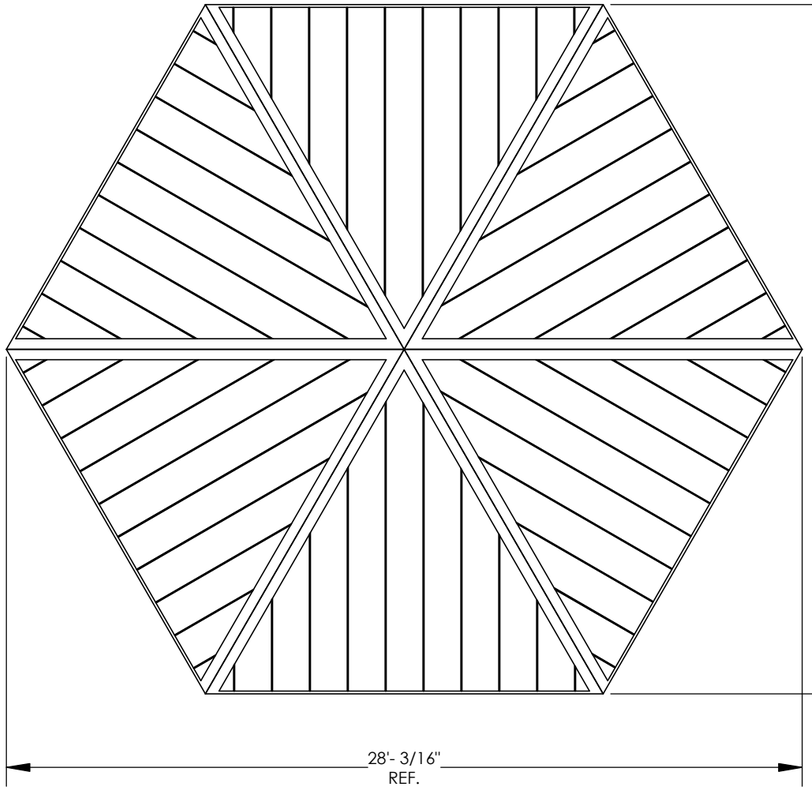
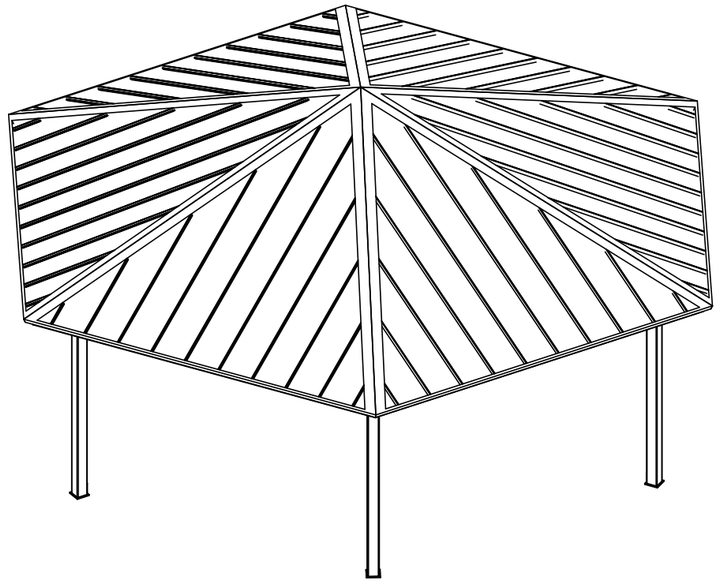
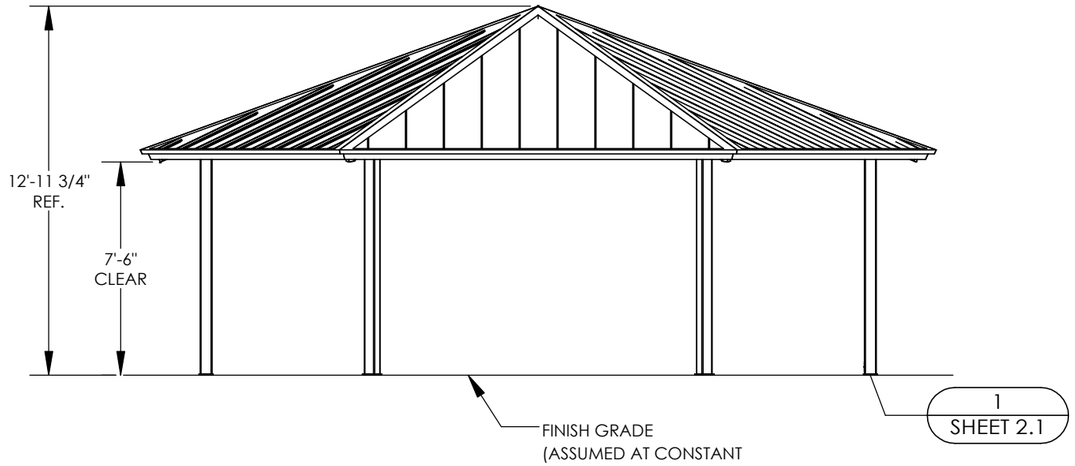
PRINT DATE: 7/28/2024
SCALE: 1:75
DRAWN BY: ryan.borah
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79993
CAD MODEL: ~P19799

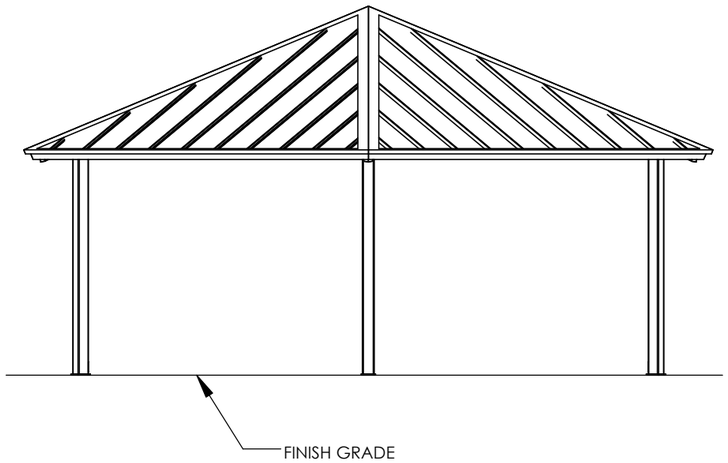
PROJECT: SUN SHELTERS - NORTH STAR PARK
PROJECT LOCATION: MADISON, WI
DRAWING: COVER SHEET

SHEET
CS









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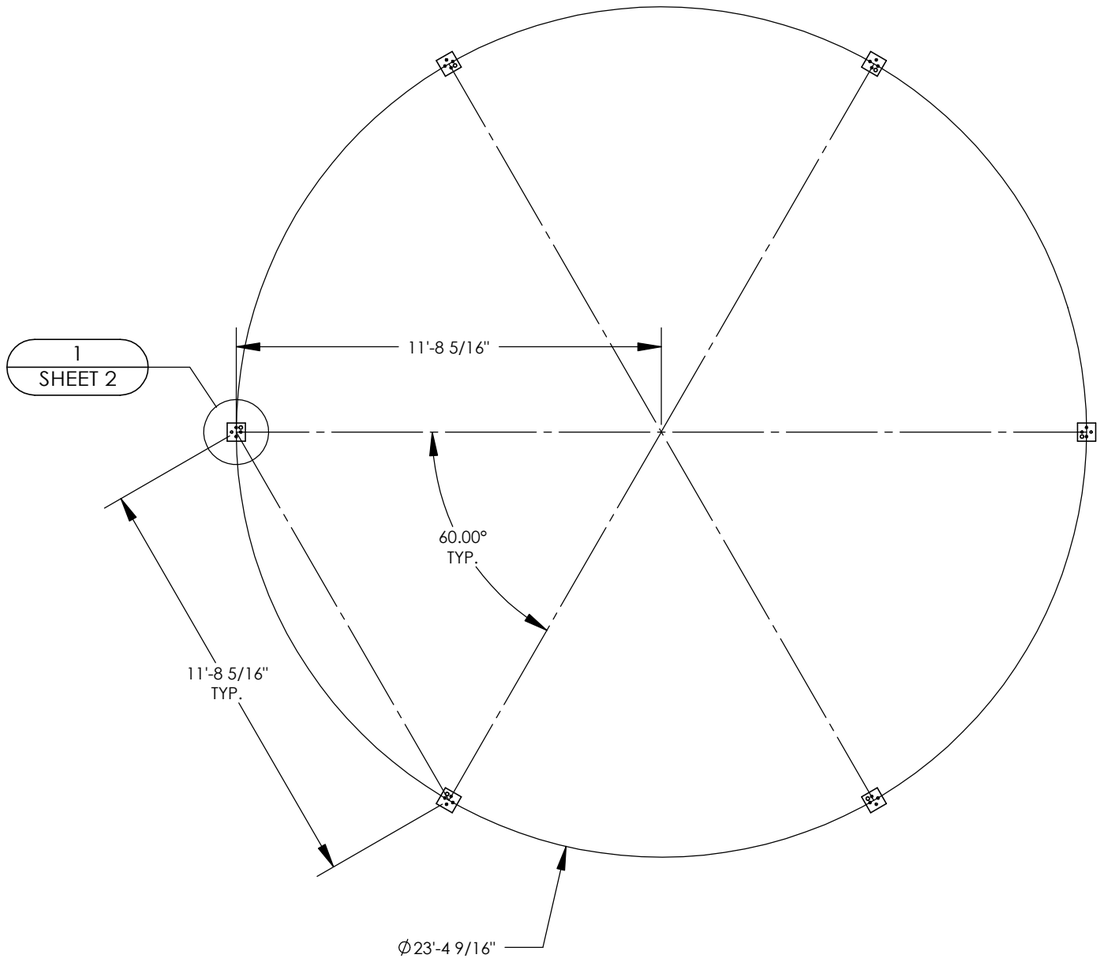
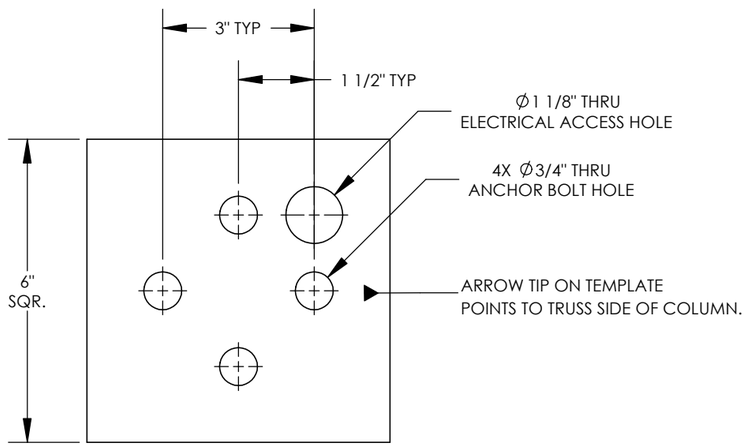
DRAWN BY: ryan.borah
REV LEVEL: A

PRINT DATE: 7/28/2024
SCALE: 1:64

PROJECT: SUN SHELTERS - NORTH STAR PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ARCHITECTURAL ELEVATIONS

SHEET 1





1/2 ANCHOR BOLT PATTERN
BASE PLATE THICKNESS: 1/2"

ANCHOR AND FOOTING LAYOUT NOTES:

1. ANCHORS MUST BE CENTERED IN FOOTINGS
2. FOOTINGS MUST BE TURNED TO ALIGN WITH COLUMN AND TRUSS CENTERLINE.

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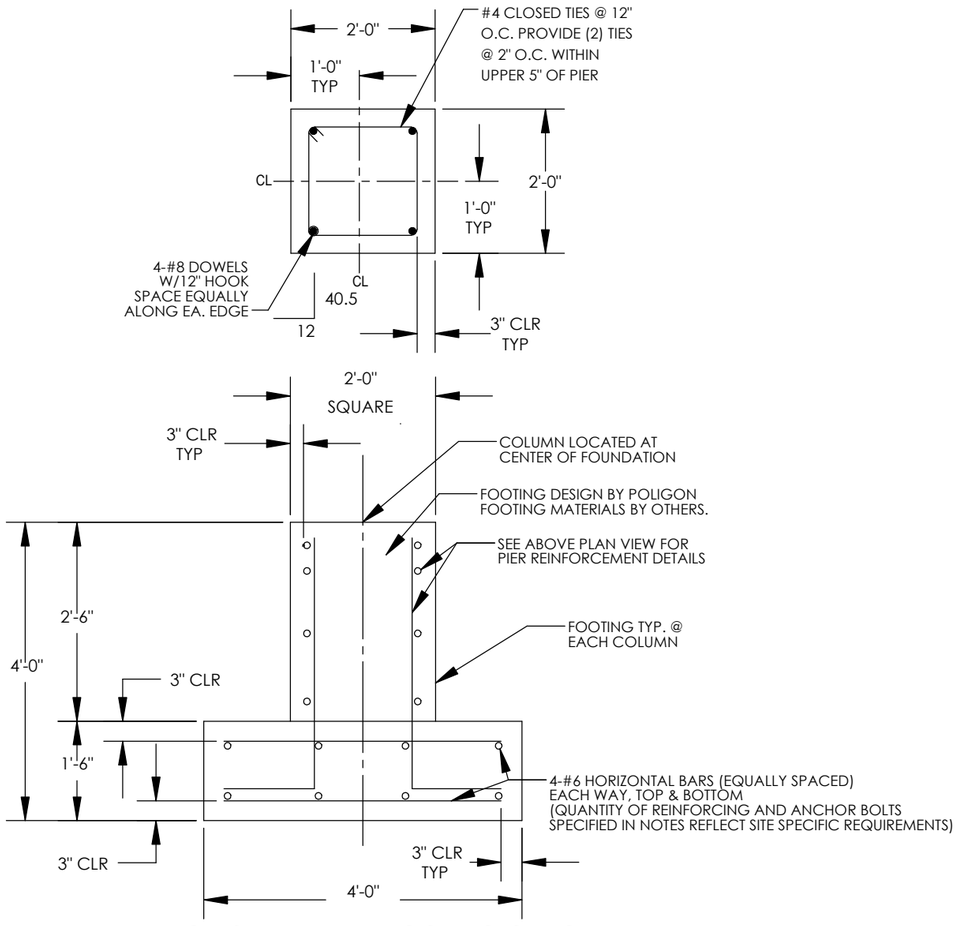
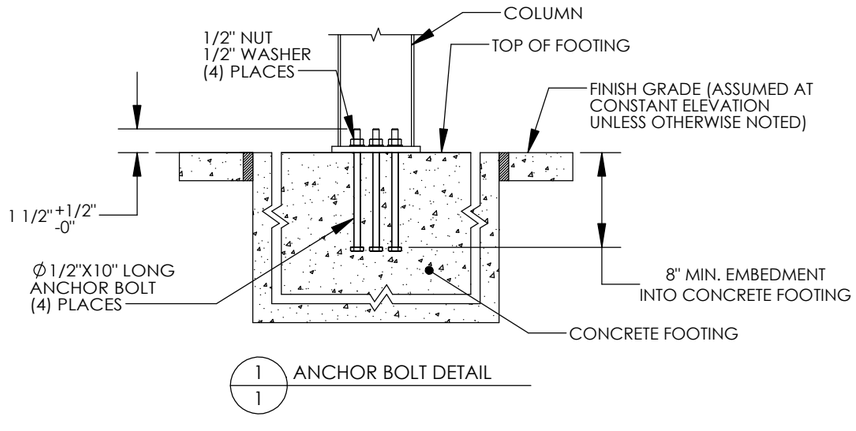
DRAWN BY: ryan.borah
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79993
CAD MODEL: ~P19799

PROJECT: SUN SHELTERS - NORTH STAR PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ANCHOR AND FOOTING LAYOUT

SHEET 2



PIER ON SPREAD PAD FOOTING OPTION



1/1 ANCHOR BOLT DETAIL

ANCHOR BOLT NOTES - INTERNAL (ANCHOR BOLTS LOCATED WITHIN COLUMN):

1. ANCHOR BOLTS SHALL BE ASTM A307 (GRADE A) MATERIAL UNLESS OTHERWISE NOTED.
2. ANCHOR BOLTS SHALL BE EITHER "HEADED" OR "THREADED WITH NUT" AS DEFINED IN THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL.
3. HOOKED ANCHOR BOLTS ARE NOT ACCEPTABLE.
4. ACCURATE ANCHOR BOLT PLACEMENT IS CRITICAL. TO ENSURE THE ANCHOR BOLT LAYOUT MEETS THE DIMENSIONS REQUIRED ON THE DRAWINGS, SURVEY (OR MEASURE) THE LOCATION OF ALL ANCHOR BOLTS PRIOR TO POURING THE FOOTINGS. AN ADDITIONAL SURVEY (OR MEASUREMENT) SHOULD BE MADE AFTER THE FOOTINGS ARE POURED TO CONFIRM THE ANCHOR BOLTS DID NOT SHIFT DURING THE CONCRETE POUR.
5. THE MANUFACTURER STRONGLY RECOMMENDS USING ANCHOR BOLT TEMPLATES BECAUSE THEY SIGNIFICANTLY IMPROVE THE ACCURACY OF ANCHOR BOLT PLACEMENT. AN ANCHOR BOLT TEMPLATE IS PROVIDED WITH ANY ANCHOR BOLT KIT PURCHASED.
6. IF OUTSIDE CONSULTING ENGINEERS ARE DESIGNING THE FOUNDATIONS FOR THIS STRUCTURE, THEY MUST REFER TO THE MANUFACTURER'S CALCULATIONS FOR MINIMUM CONCRETE PROPERTIES (COMPRESSIVE STRENGTH, EDGE DISTANCE, ETC.) REQUIRED FOR THE ANCHOR BOLT DESIGN.
7. ELECTRICAL ACCESS HOLE IS ALWAYS LOCATED IN THE COLUMN BASE PLATE AS SHOWN. BE SURE TO KEEP THE ANCHOR BOLT TEMPLATE PROPERLY ORIENTED WHEN ELECTRICAL ACCESS TO THE COLUMN IS REQUIRED. TEMPLATE MUST BE REMOVED BEFORE INSTALLING COLUMNS.
8. THE CALCULATIONS FOR THIS STRUCTURE ASSUME A PINNED COLUMN BASE.
9. THE FOLLOWING ADHESIVE ANCHORS MAY BE SUBSTITUTED FOR THE CAST-IN-PLACE ANCHOR BOLTS:
   -HILTI HIT-HY 200 (A OR R) V3 ADHESIVE WITH Ø 1/2" HAS-E ROD WITH 6" EFFECTIVE EMBEDMENT.
   CONTRACTOR SHALL FOLLOW ALL INSTALLATION SPECIFICATIONS AND REQUIREMENTS OF ANCHOR MANUFACTURER.

CONCRETE NOTES:

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE CURRENT "ACI MANUAL OF CONCRETE PRACTICE".
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE II OR TYPE V.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE CONCRETE MIX DESIGN MEETS THE "ACI MANUAL OF CONCRETE PRACTICE" REQUIREMENTS FOR CONCRETE BY EXPOSURE CLASS.
4. THE USE OF CHLORIDE ACCELERATORS IS NOT PERMITTED.
5. COARSE AGGREGATE SHALL BE #57 OR LARGER.
6. CONCRETE AT PLACEMENT SHALL HAVE A SLUMP OF 4" +/- 1".
7. MINIMUM CONCRETE COMPRESSIVE STRENTGH AT 28 DAYS: 4500 PSI.
8. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A615 (DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A305) AS FOLLOWS:
   GRADE 60: #4 BARS AND LARGER
   GRADE 40: #3 BARS
9. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
10. MAINTAIN 3" CONCRETE COVERAGE TO FACE OF BARS UNLESS OTHERWISE NOTED.
11. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
12. WELDING OF REINFORCEMENT IS NOT ALLOWED.
13. ALL EXPOSED EXTERNAL CORNER OF FOUNDATIONS TO BE CHAMFERED BY 3/4" BY 45 DEGREES UNLESS NOTED OTHERWISE.
14. ALL NEW CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OF REMOVING FORMWORK. CURING SHALL BE EITHER A MOIST CURE METHOD OR THE USE OF A CURING COMPOUND.

FOUNDATION NOTES:

1. FOUNDATIONS SHALL BEAR ON COMPETENT, UNDISTURBED SOIL OR 95% COMPACTED FILL. IF SIGNS OF ORGANIC MATERIAL, UNCONTROLLED FILL, CLAY OR SILT, HIGH WATER TABLE OR OTHER POSSIBLE DETRIMENTAL CONDITIONS ARE FOUND, CONSTRUCTION OF THE FOUNDATIONS MUST BE STOPPED AND A GEOTECHNICAL ENGINEER BE CONTACTED.
2. NO FOUNDATIONS SHALL BE PLACED INTO OR ADJACENT TO SUBGRADE CONTAINING WATER, ICE, FROST, ORGANIC OR LOOSE MATERIAL.
3. WATER SHALL NOT BE PERMITTED TO ACCUMULATE IN FOUNDATION EXCAVATIONS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCAL FROST DEPTH REQUIREMENT PRIOR TO CONSTRUCTION.
5. IF FOUNDATIONS SHOWN DO NOT MEET LOCAL FROST DEPTH REQUIREMENTS, EXTEND THE DRILLED PIER FOUNDATION AS REQUIRED, EXTENDING THE VERTICAL BARS AND PROVIDING ADDITIONAL TIES TO MEET SPACING REQUIREMENTS AS SHOWN. IF FROST DEPTH REQUIREMENTS ARE NOT MET, AND NO DRILLED PIER DESIGN IS PROVIDED, CONTACT POLIGON.
6. ALLOWABLE SOIL PRESSURES (AS APPLICABLE):

SPREAD PAD	
VERTICAL BEARING	2000 PSF
LATERAL COHESION	130 PSF

THE FOUNDATION DESIGN CONTAINED HEREIN IS SITE SPECIFIC, AND IS BASED ON NORTH STAR PARK GEOTECH C24051-6 SHELTER, KESTRAL PARK, BY CGC INC. DATED 6/8/2024. REPORT NO. C24051.
PROPER CARE MUST BE TAKEN TO ENSURE ANY AND ALL RECOMMENDATIONS, OF THE ABOVE-MENTIONED REPORT, FOR SITE PREPARATION, SOIL PERFORMANCE AND FOUNDATION DESIGN ARE MET. IF CONDITIONS ARE PRESENT THAT DO NOT ALLOW FOR THESE RECOMMENDATIONS TO BE MET, THE GEOTECHNICAL ENGINEER MUST BE CONTACTED.

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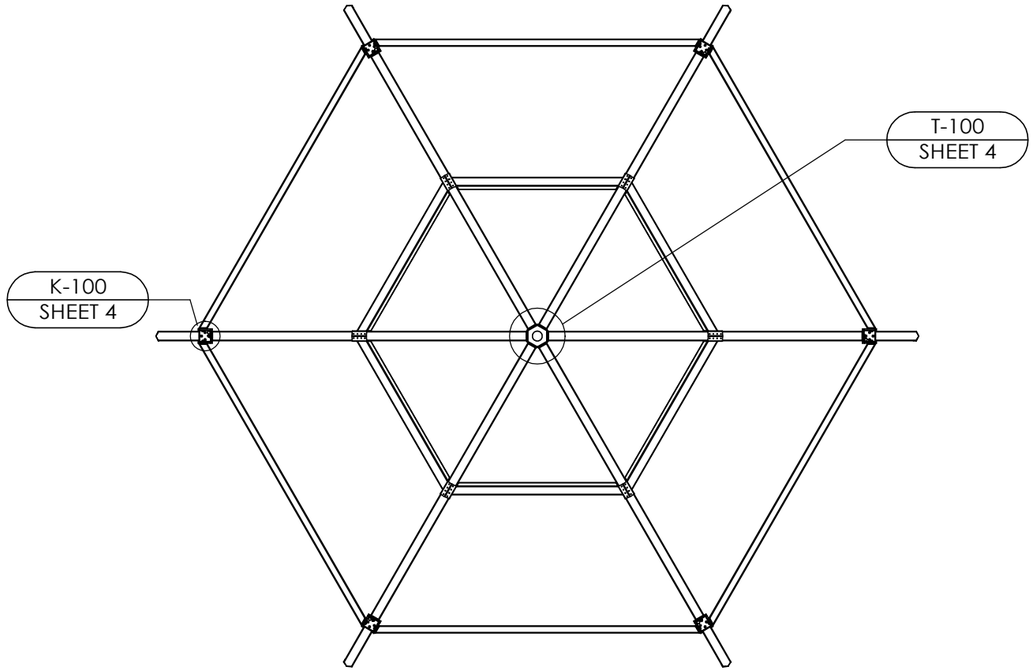
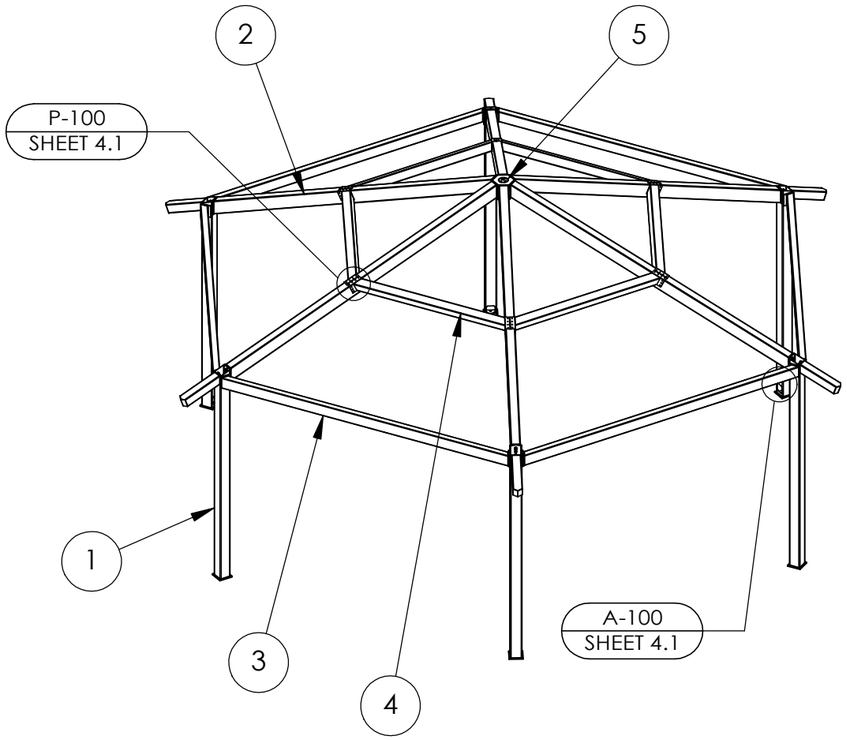
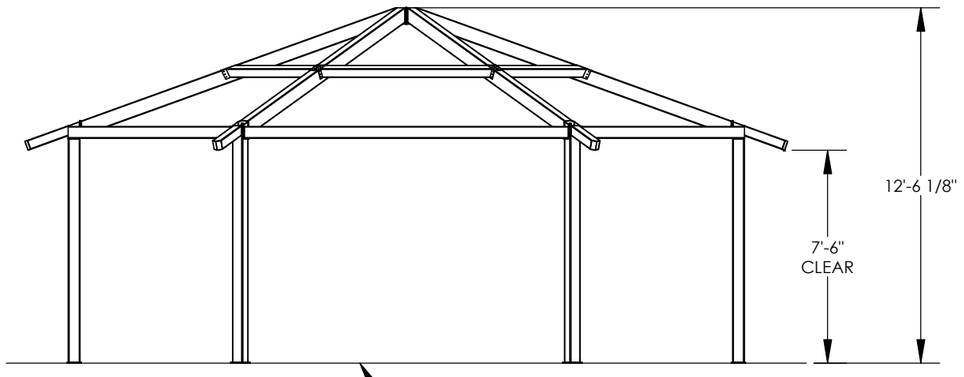
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79993
CAD MODEL: ~P19799

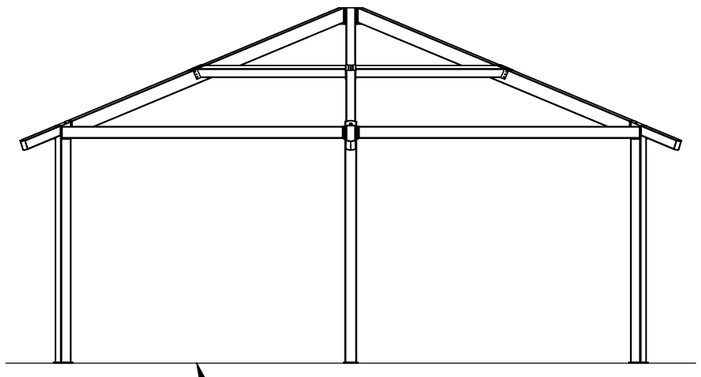
PROJECT: SUN SHELTERS - NORTH STAR PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ANCHOR AND FOOTING DETAILS

SHEET
2.1









ITEM	QTY.	PART NO.	DESCRIPTION	MATERIAL	WEIGHT
5	1	-	HEX C-RING ASM	3/8" PLATE	28.62
4	6	-	PURLIN A ASM	HSS4"X4"X1/8"	40.07
3	6	-	T-MEM ASM	HSS5"X3"X1/8"	76.22
2	6	-	TRUSS ASM	HSS6"X4"X1/8"	100.01
1	6	-	COLUMN ASM	HSS5"X5"X3/16"	121.92

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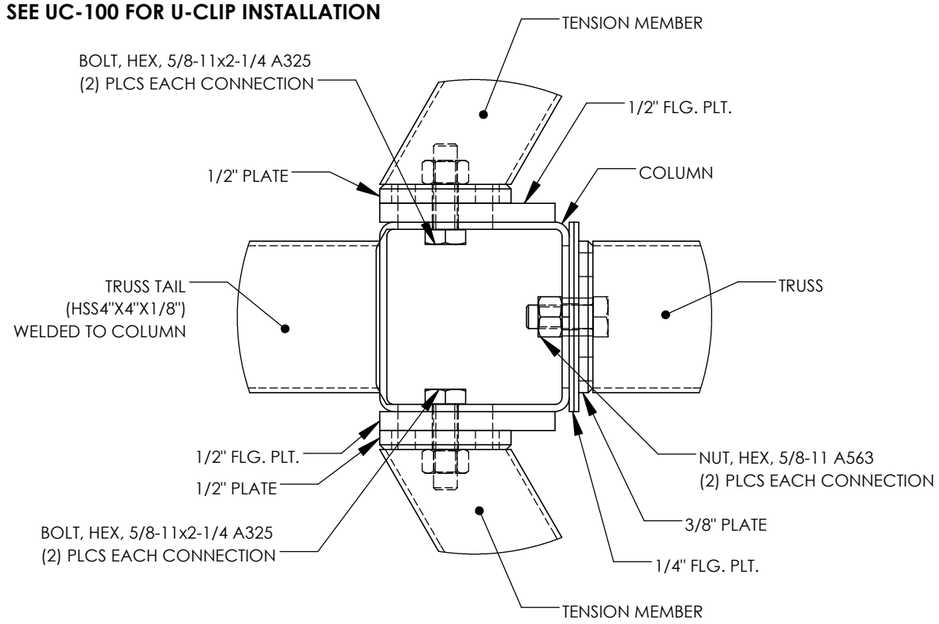
CAD MODEL: ~P19799

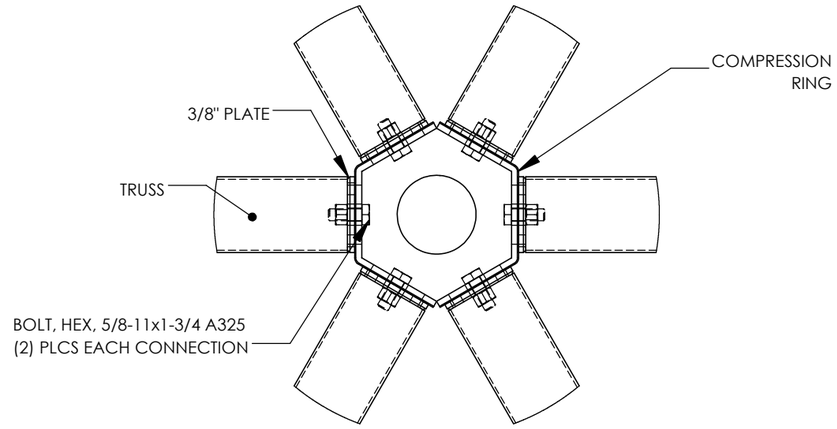
PROJECT: SUN SHELTERS - NORTH STAR PARK
PROJECT LOCATION: MADISON, WI
DRAWING: STRUCTURAL FRAMING PLAN

SHEET
3

NOTE:
SEE UC-100 FOR U-CLIP INSTALLATION



COLUMN CONNECTIONS | K-100



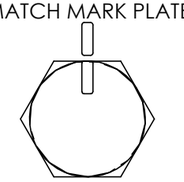
COMPRESSION MEMBER CONNECTION | T-100

TURN-OF-NUT PRETENSIONING METHOD:

THESE STEPS ILLUSTRATE THE REQUIREMENTS OUTLINED IN THE AISC SPECIFICATION. THE ROTATION INDICATED IS ACCURATE FOR MOST BOLT DIAMETERS AND LENGTHS BUT IT IS THE RESPONSIBILITY OF THE INSTALLER TO MEET AISC REQUIREMENTS.

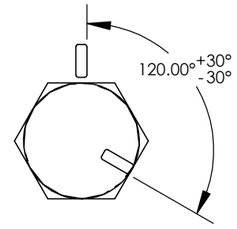
STEP ONE:

AFTER SNUG TIGHT, MATCH MARK PLATE



STEP TWO:

THEN TURN BOLT/NUT PAST SNUG TIGHT 1/3 TURN



CONNECTION NOTES:

1. HIGH STRENGTH BOLTS SHALL BE ASTM F3125 (A325, TYPE 1) MATERIAL.
2. HIGH STRENGTH NUTS SHALL BE ASTM A563 (GRADE DH) MATERIAL.
3. HIGH STRENGTH WASHERS SHALL CONFORM TO ASTM F436.
4. UNLESS A SNUG-TIGHT JOINT IS PERMITTED IN THE CONNECTION DETAIL, ALL BOLTS ARE TO BE INSTALLED BY ONE OF THE FOLLOWING PRETENSIONING METHODS AS SPECIFIED IN THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", SECTION 8:
   A. TURN-OF-NUT PRETENSIONING
   B. CALIBRATED WRENCH PRETENSIONING
5. THE SNUG-TIGHT CONDITION IS 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 CONNECTED PLIES INTO FIRM CONTACT.
6. ANCHOR BOLTS NEED NOT BE TIGHTENED PAST SNUG-TIGHT.
7. WHEN INSTALLING BOLTS REFER TO SECTIONS 8.4.1, 8.4.2, AND 8.4.3 OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" FOR GUIDANCE.
8. LOCAL JURISDICTIONS MAY REQUIRE AN INSPECTOR TO BE PRESENT TO WITNESS HARDWARE INSTALLATION AND INDEPENDENT TESTING. INSPECTION REQUIREMENTS SHOULD BE VERIFIED BY INSTALLER PRIOR TO STEEL ERECTION.
9. ERECTION OF THE FRAMING MEMBERS WILL REQUIRE THE MAIN COLUMNS TO BE PLUMB SQUARE AND TIGHTENED TO THE TRUSSES AND/OR TENSION MEMBERS BEFORE INSTALLING THE PURLINS. PURLINS, IF REQUIRED, MUST BE AS SHOWN IN FRAMING PLAN.
10. TEMPORARY SHORING OR BRACING SHALL BE USED TO COMPACT THE JOINTS UNTIL THE CONNECTED PLIES ARE IN FIRM CONTACT PRIOR TO PRETENSIONING.
11. PRIOR TO THE ERECTION OF SHELTER COMPONENTS, IT IS RECOMMENDED TO CHASE AND TAP STRUCTURAL HARDWARE.
12. ALL BOLTS MUST BE LUBRICATED WITH WAX TO ASSIST IN PROPER TIGHTENING. TO LUBRICATE A BOLT IN THE FIELD, APPLY THE WAX STICK DOWN THE LENGTH OF THE BOLT'S THREADS.
13. TO PREVENT RUST STAINING OF FINISH, ALL METAL SHAVINGS MUST BE REMOVED AFTER INSTALLATION. ENSURE NO SHAVING ARE TRAPPED BETWEEN MATING SURFACES.
14. TOUCH-UP PAINT MUST BE APPLIED TO ALL EXPOSED FASTENERS. PERIODIC TOUCH-UP AT THESE CONNECTIONS IS REQUIRED.

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REV LEVEL: A
CREATION DATE: 11/15/2016
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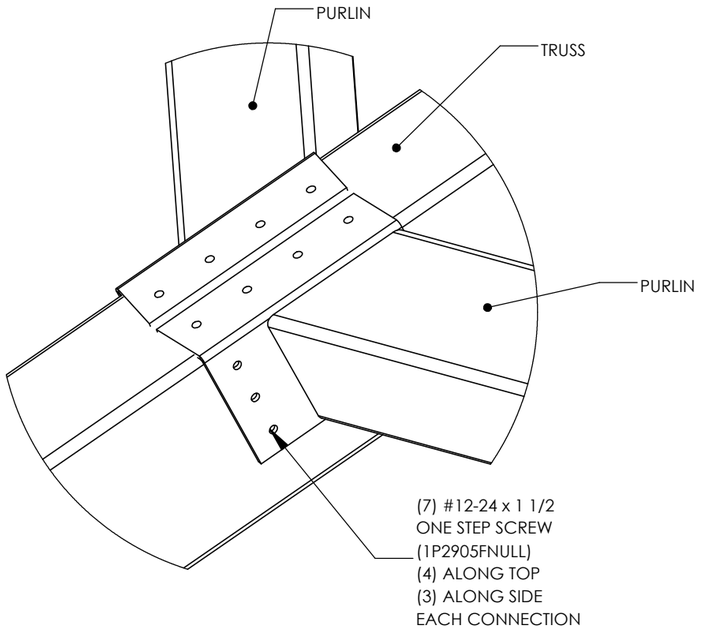
CAD MODEL: ~P19799

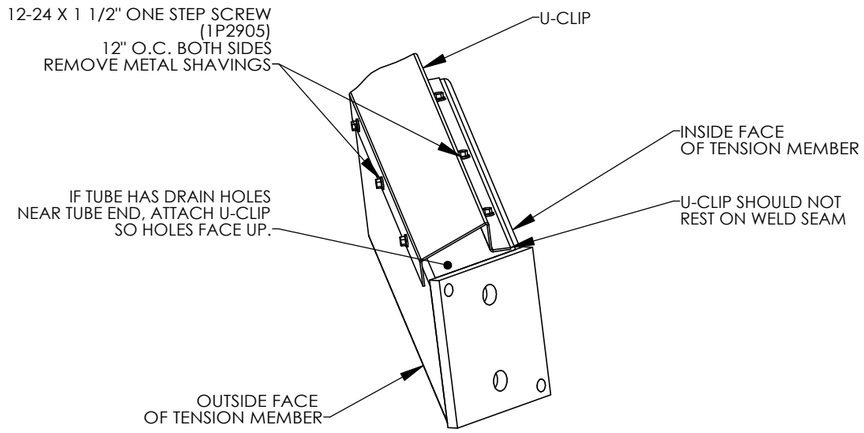
PROJECT: SUN SHELTERS - NORTH STAR PARK
PROJECT LOCATION: MADISON, WI
DRAWING: FRAME CONNECTION DETAILS

SHEET
4

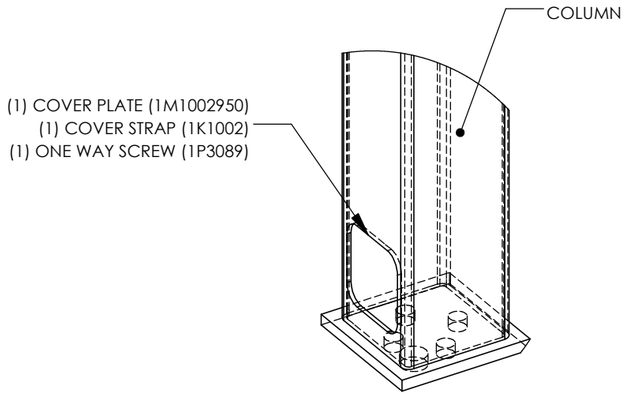


PURLIN CONNECTION | P-100

NOTE:
U-CLIP MUST BE ATTACHED TO TENSION MEMBER AS SHOWN PRIOR TO BUILDING ASSEMBLY.



U-CLIP CONNECTION | UC-100



ANCHOR ACCESS COVER PLATE | A-100

IF THESE DRAWINGS ARE SEALED, THE SEAL APPLIES ONLY TO BUILDING COMPONENTS (AND FOUNDATION DESIGN IF APPLICABLE) DETAILED WITHIN THESE DRAWINGS.

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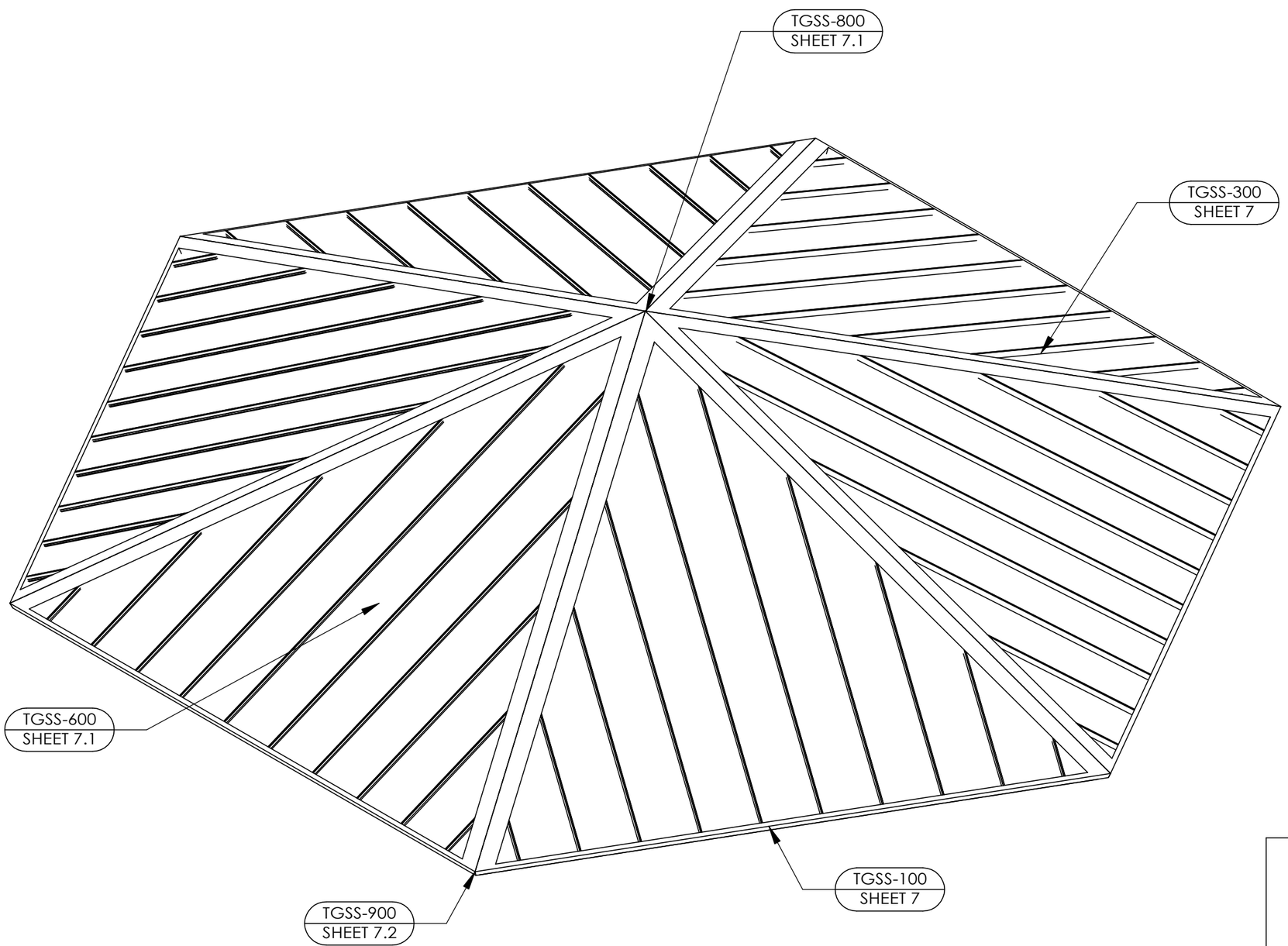
PROJECT LOCATION: MADISON, WI
DRAWING: FRAME CONNECTION DETAILS

SHEET
4.1



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REV LEVEL: A

PROJECT: SUN SHELTERS - NORTH STAR PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF OVERVIEW

SHEET 6

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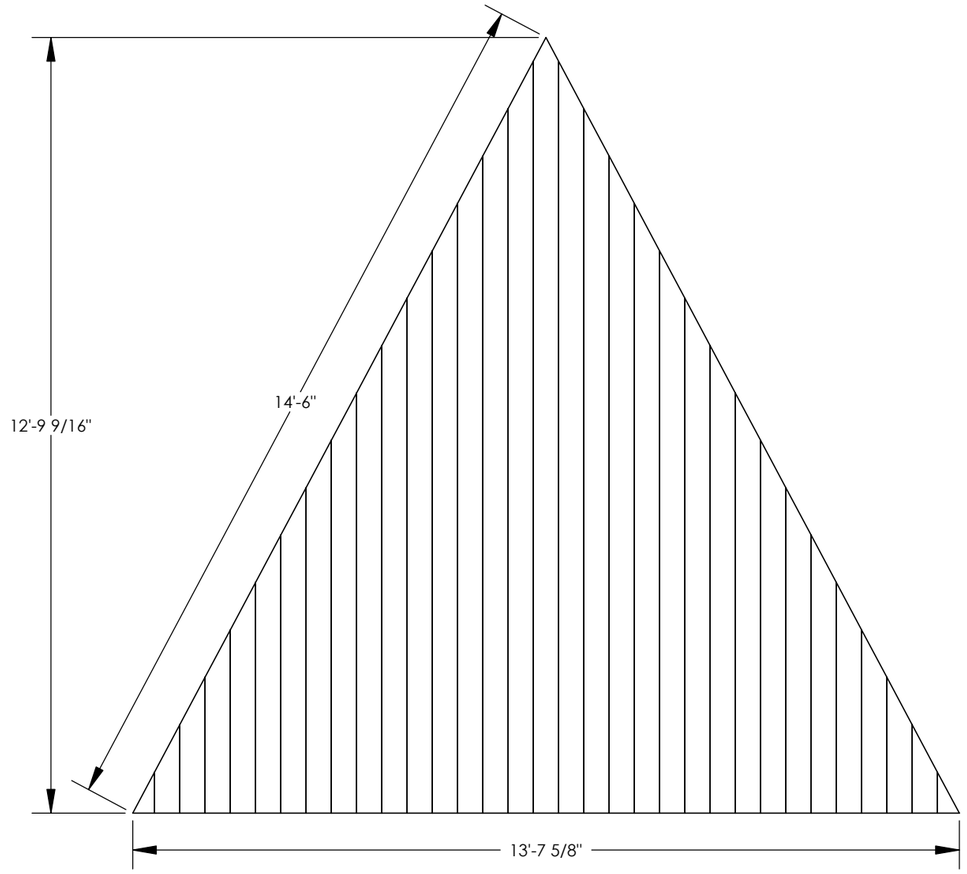
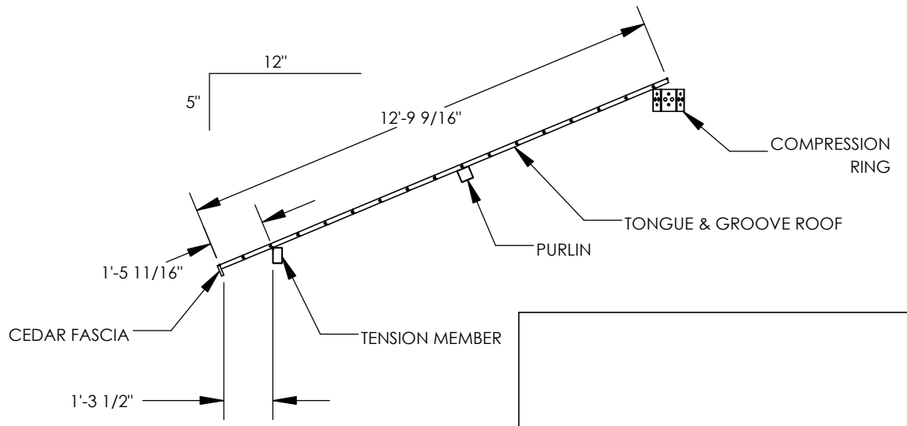


TONGUE & GROOVE NOTES:

1. THE FIRST PLANK SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK. MAKE SURE PLANKS EXTEND ENOUGH TO COVER EAVE, TRUSSES, AND/OR THE CENTER OF THE PEAK.
2. THE T&G PROVIDED MAY CONTAIN SOME MINOR IMPERFECTIONS. REMOVE THESE IMPERFECTIONS AS REQUIRED AND USE REMAINDER OF MATERIAL TO ATTAIN MAXIMUM YIELD.
3. NO END JOINTS IN DECKING BETWEEN STRUCTURAL FRAMING AND EAVE OF DECKING.
4. A MINIMUM OF 24" SPACING IS REQUIRED BETWEEN ALL ADJACENT END JOINTS. BOARD LAYOUT MAY REQUIRE VISIBLE SPLICES.
5. IF PRE-STAINED T&G IS ORDERED, TOUCH-UP AT FIELD CUT EDGES MAY BE NECESSARY.
6. POLIGON RECOMMENDS ALL T&G BE STAINED/SEALED TO IMPROVE LONG TERM PERFORMANCE.

FOR BEST APPEARANCE POLIGON SUGGESTS THAT ALL END JOINTS BE MITERED @ 45°



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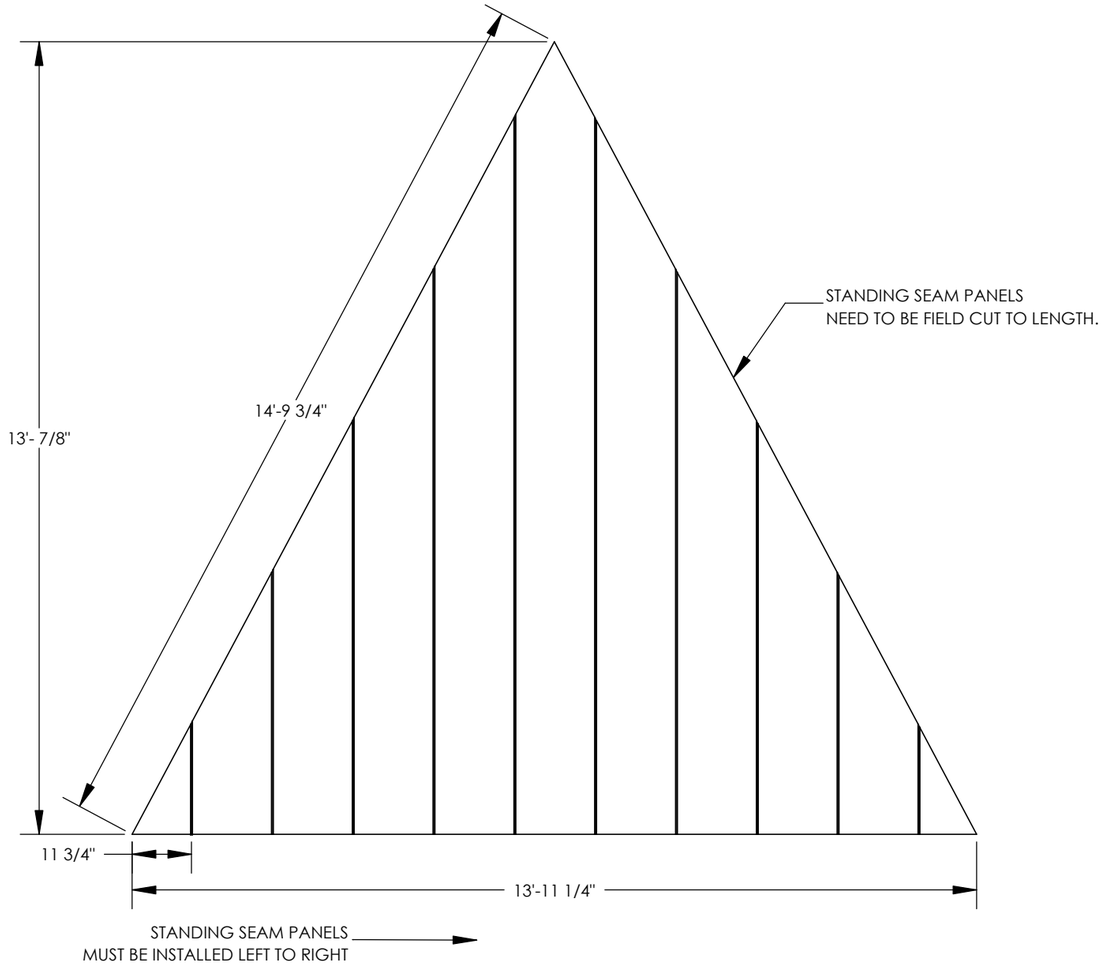
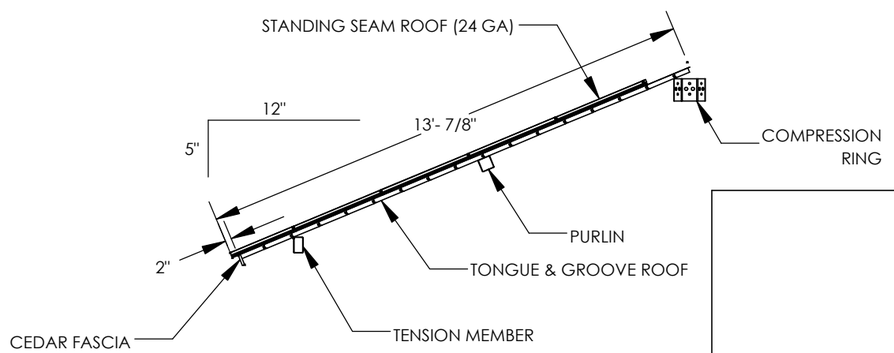
PROJECT: SUN SHELTERS - NORTH STAR PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF LAYOUT

SHEET
6.1



MULTI-RIB NOTES:

1. THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE SYSTEMS. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGNS OR CODES. THE DETAILS MAY REQUIRE CHANGES OR REVISIONS DUE TO FIELD CONDITIONS.
2. IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.
3. THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH ALL ERECTION INSTRUCTIONS BEFORE STARTING WORK.
4. THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.
5. FLASHING AND TRIM SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ANY EXPOSED FASTENERS EQUALLY SPACED FOR THE BEST APPEARANCE.
6. SEALANT SHALL BE FIELD APPLIED ON DRY, CLEAN SURFACES. SOME FIELD CUTTING AND FITTING OF PANELS AND FLASHING IS TO BE EXPECTED BY THE ERECTOR AND MINOR FIELD CORRECTIONS ARE A PART OF NORMAL ERECTION WORK.
7. WORKMANSHIP SHALL BE OF THE BEST INDUSTRY STANDARDS AND INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN.
8. METAL SHAVINGS FROM DRILLING OR INSTALLATION OF ROOF FASTENERS MUST BE CAREFULLY REMOVED FROM THE ROOF BY BRUSHING OR SWEEPING AT THE END OF EACH DAY DURING INSTALLATION. SHAVINGS LEFT ON THE ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH.



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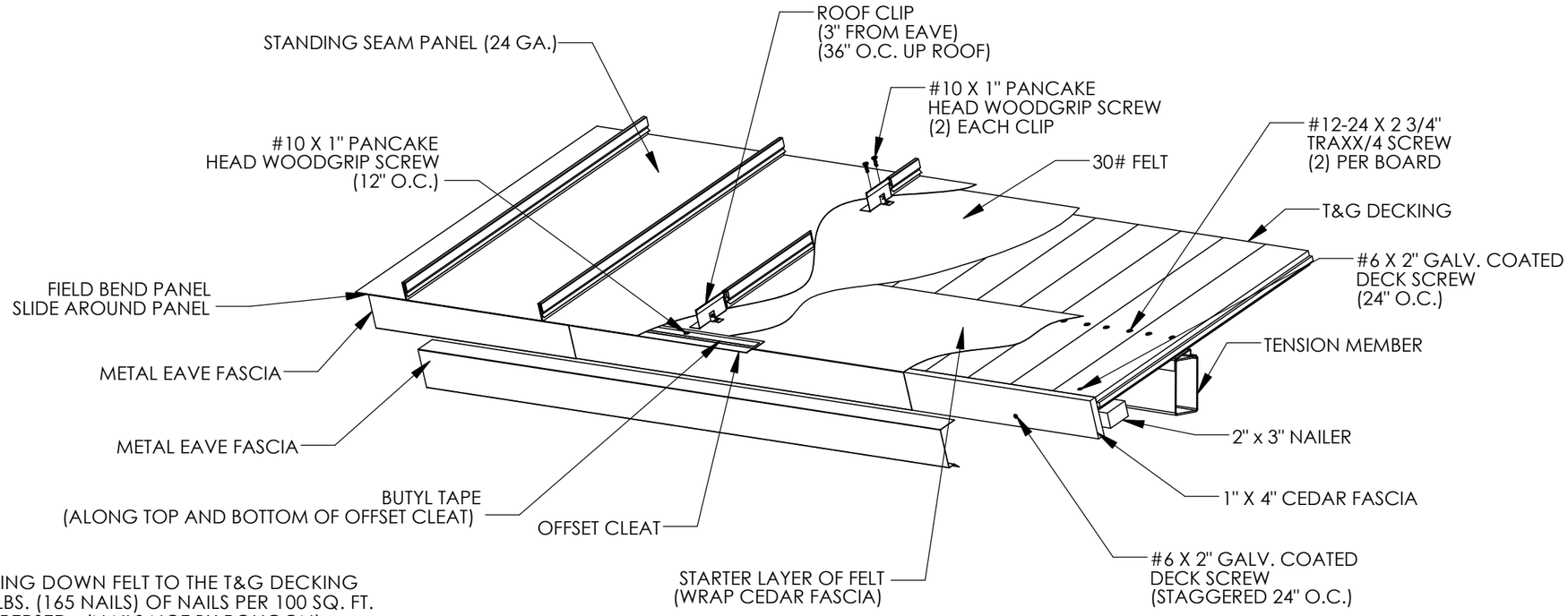
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF LAYOUT

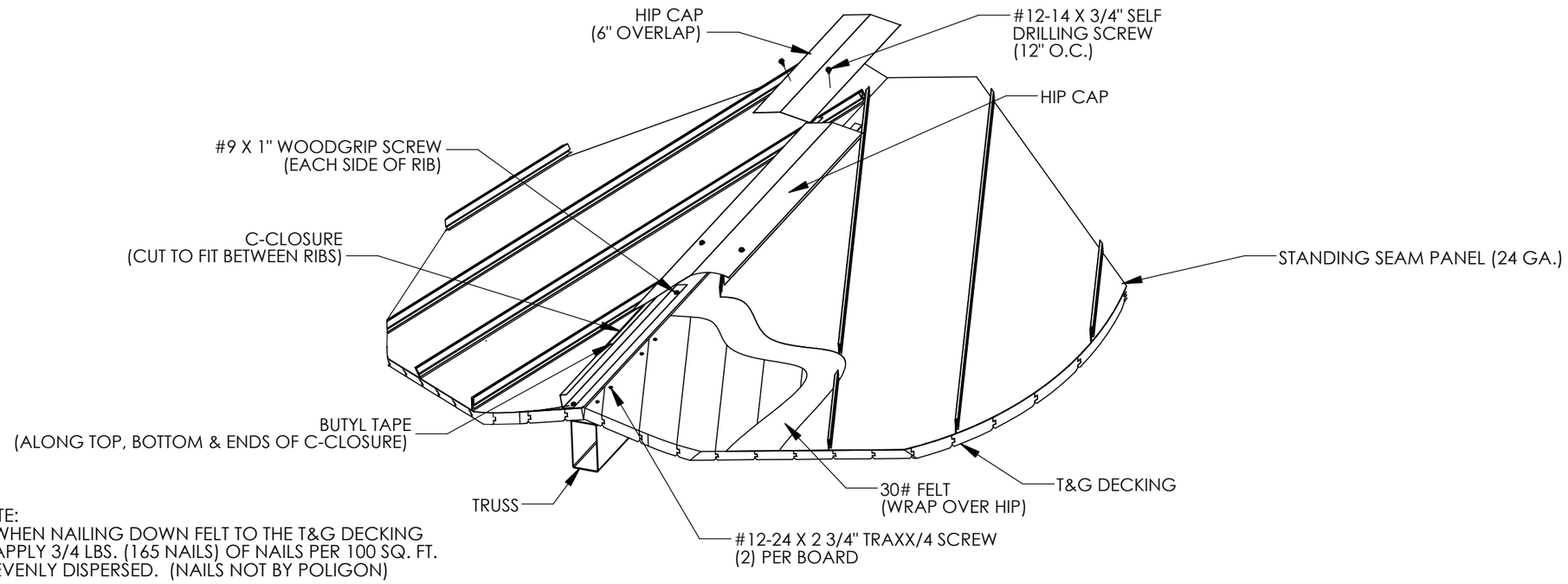
SHEET
6.2



NOTE:
WHEN NAILING DOWN FELT TO THE T&G DECKING APPLY 3/4 LBS. (165 NAILS) OF NAILS PER 100 SQ. FT. EVENLY DISPERSED. (NAILS NOT BY POLIGON)

EAVE DETAIL | TGSS-100

2022A



NOTE:
WHEN NAILING DOWN FELT TO THE T&G DECKING APPLY 3/4 LBS. (165 NAILS) OF NAILS PER 100 SQ. FT. EVENLY DISPERSED. (NAILS NOT BY POLIGON)

TRUSS DETAIL | TGSS-300

2023A

PART DESCTIPTIONS:

- 1/8" POP RIVET
- #6 x 2" GALV. COATED DECK SCREW
- #9x1" WOODGRIP SCREW
- #12-14x3/4" SELF DRILLING SCREW
- #12-24x2.75 TRAXX/4 SCREW
- 1" GALVANIZED ROOFING NAIL (NOT BY POLIGON)

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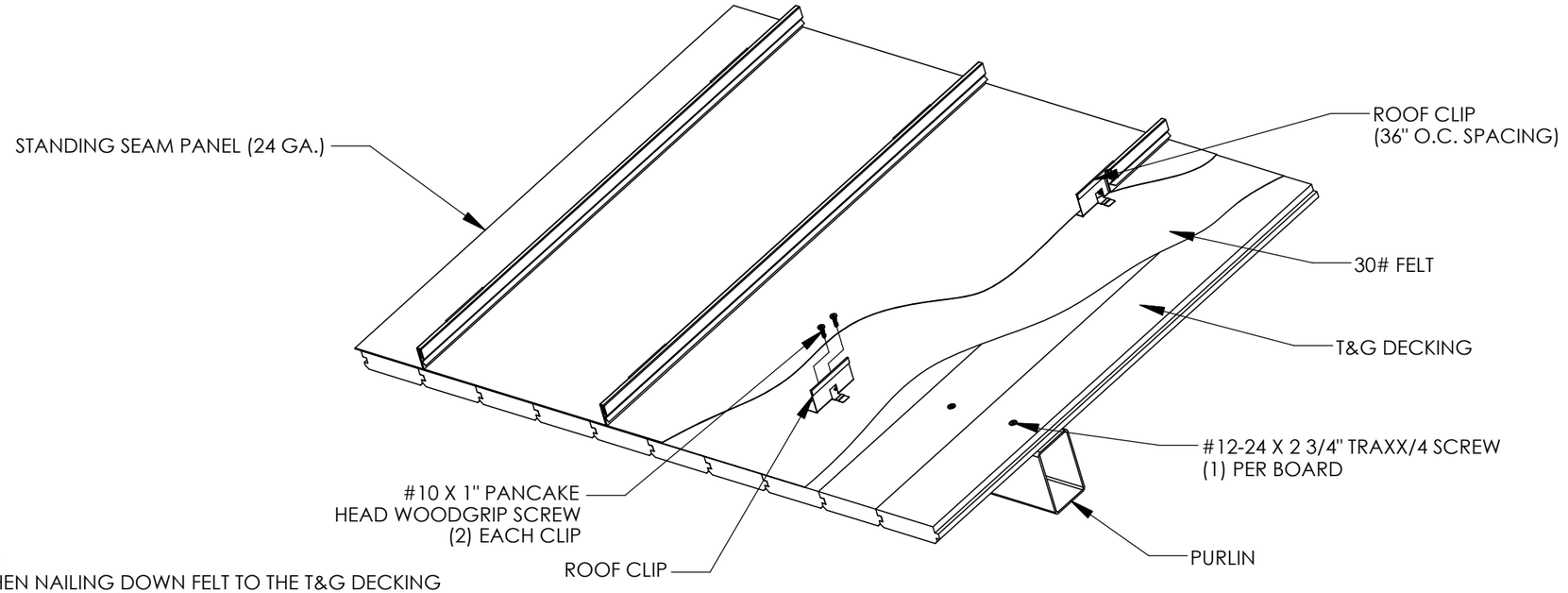
PRINT DATE: 7/28/2024
SCALE: NTS
DRAWN BY: ryan.borah
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79993
CAD MODEL: ~P19799

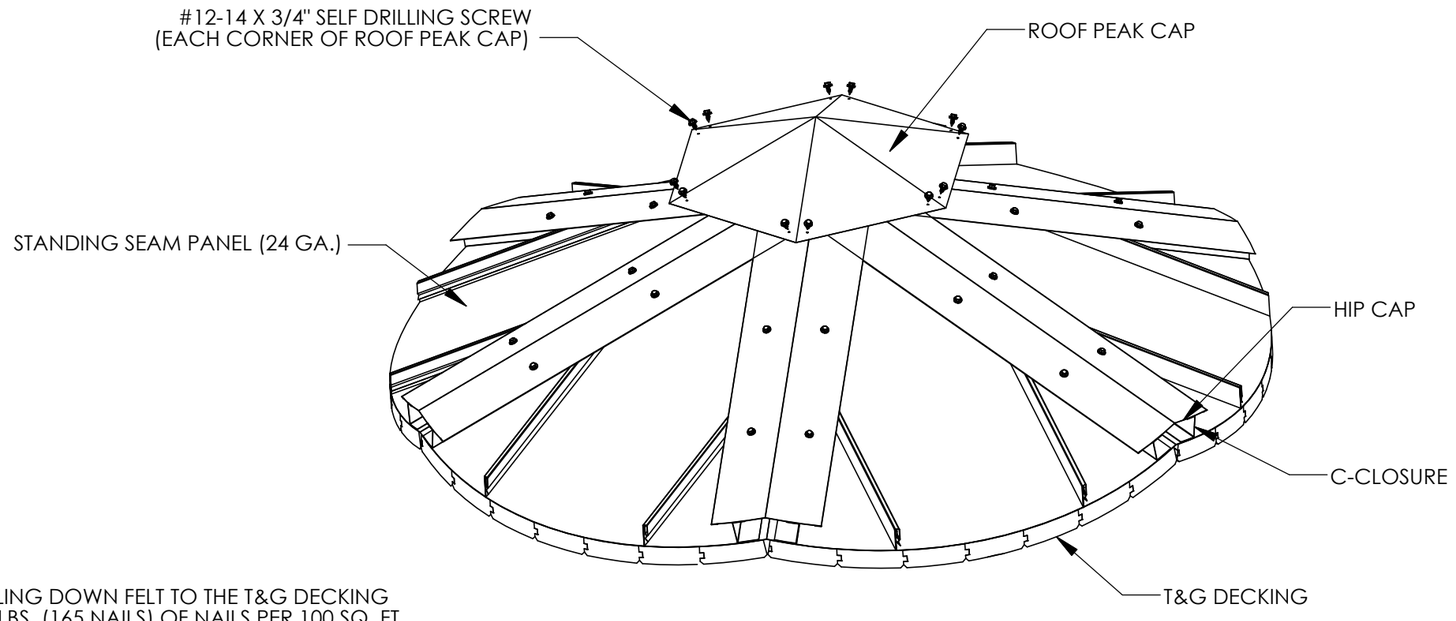
PROJECT: SUN SHELTERS - NORTH STAR PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF CONNECTION DETAILS

SHEET 7



NOTE:
WHEN NAILING DOWN FELT TO THE T&G DECKING
APPLY 3/4 LBS. (165 NAILS) OF NAILS PER 100 SQ. FT.
EVENLY DISPERSED. (NAILS NOT BY POLIGON)

2022A | MID SPAN DETAIL | TGSS-600



NOTE:
WHEN NAILING DOWN FELT TO THE T&G DECKING
APPLY 3/4 LBS. (165 NAILS) OF NAILS PER 100 SQ. FT.
EVENLY DISPERSED. (NAILS NOT BY POLIGON)

2022A | ROOF PEAK DETAIL | TGSS-800

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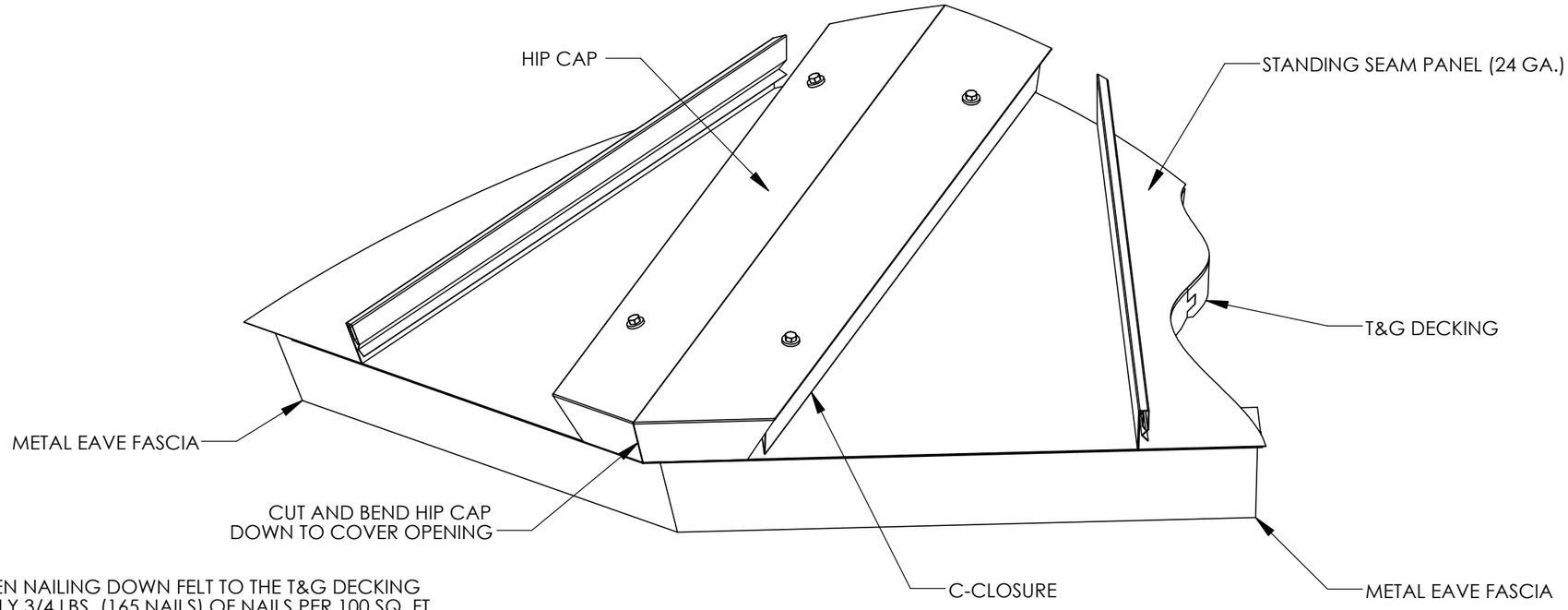
SCALE: NTS
DRAWN BY: ryan.borah
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79993
CAD MODEL: ~P19799

PROJECT: SUN SHELTERS - NORTH STAR PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF CONNECTION DETAILS

SHEET
7.1



NOTE:
WHEN NAILING DOWN FELT TO THE T&G DECKING
APPLY 3/4 LBS. (165 NAILS) OF NAILS PER 100 SQ. FT.
EVENLY DISPERSED. (NAILS NOT BY POLIGON)

2022A

CORNER DETAIL

TGSS-900

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SCALE: NTS
DRAWN BY: ryan.borah
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79993
CAD MODEL: ~P19799

PROJECT: SUN SHELTERS - NORTH STAR PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF CONNECTION DETAILS

SHEET
7.2

2024C

poligon®

A Division of PORTERCORP 4240 N. 136th AVE HOLLAND, MI 49424 (616) 888-3500

PROJECT NAME: SUN SHELTERS - SYCAMORE PARK

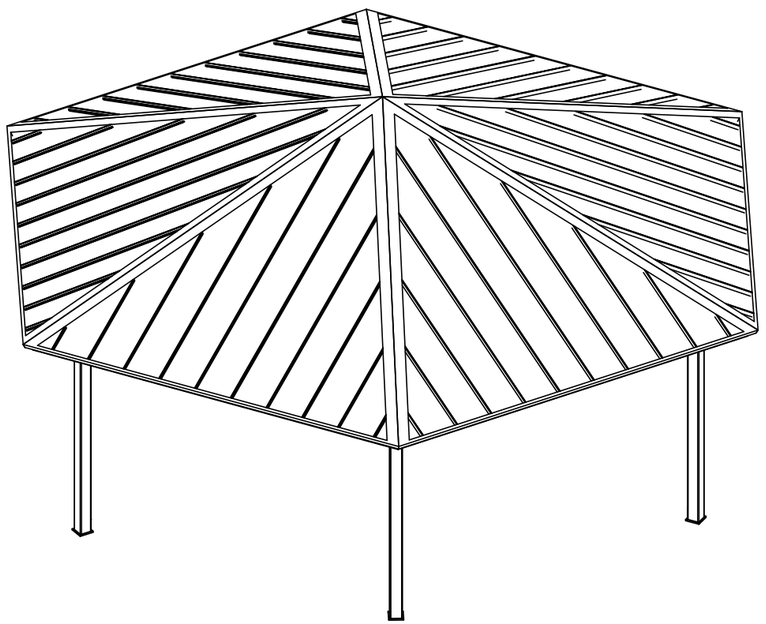
PROJECT LOCATION: MADISON, WI

BUILDING TYPE: HXE 28

ROOF TYPE: STANDING SEAM (24 GA) OVER STAINED T & G

BUILDING NUMBER: P19801

ORDER NUMBER: 79995



DRAWING LIST:

SHEET NUMBER	DRAWING DESCRIPTION
CS	COVER SHEET
1	ARCHITECTURAL ELEVATIONS
2-2.1	ANCHOR AND FOOTING LAYOUT / DETAILS
3	STRUCTURAL FRAMING PLAN
4-4.1	FRAME CONNECTION DETAILS
5	ELECTRICAL VIEWS-N/A
6-6.2	ROOF LAYOUT
7-7.2	ROOF CONNECTION DETAILS

MANUFACTURER NOTES:

MATERIALS:

DESCRIPTION	ASTM DESIGNATION
TUBE STEEL	A500 (GRADE C)
SCHEDULE PIPE	A53 (GRADE B)
RMT PIPE	A519
LIGHT GAGE COLD FORMED	A1003 (GRADE 50)
STRUCTURAL STEEL PLATE	A36
ROOF PANELS (STEEL)	A653
ANCHOR BOLTS	SEE SHEET 2.1

GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED TO ONLY SUPPORT WHAT IS SHOWN ON THESE DRAWINGS. POLIGON MUST BE CONTACTED IF ANYTHING ELSE IS TO BE ATTACHED TO THIS STRUCTURE (WALLS, COLUMN WRAPS, RAILINGS, ETC.) SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.
2. THE ENGINEERING SEAL FOR THE STRUCTURE DETAILED IN THESE DRAWINGS IS ONLY VALID IF PORTER CORP DESIGNS AND FABRICATES THE STEEL COMPONENTS. FABRICATING THE STEEL COMPONENTS ELSEWHERE VOIDS THE ENGINEERING PROVIDED BY PORTER CORP.
3. UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 20' SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EAVE HEIGHT EQUAL TO OR GREATER THAN THE EAVE HEIGHT OF THIS STRUCTURE (SEE SNOW DESIGN DATA). IF THAT SEPARATION DOES NOT EXIST AND THE GROUND SNOW LOAD (Pg) IS GREATER THAN 0 PSF, POLIGON MUST BE CONTACTED SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.
4. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED IN THE GOVERNING BUILDING CODE.
5. ALL WELDING IS PERFORMED BY AMERICAN WELDING SOCIETY (AWS) CERTIFIED WELDERS AND CONFORMS TO AWS D1.1 OR D1.3 AS REQUIRED.
6. PARTS SHOWN MAY BE UPGRADED DUE TO STANDARDIZED FABRICATION. REFER TO THE SHIPPING BILL OF MATERIALS AND FINAL INSTALLATION INSTRUCTIONS INCLUDED WITH THE STRUCTURE FOR POSSIBLE SUBSTITUTIONS AND IMPROVEMENTS.
7. FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT THE PRIMARY FRAME INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM FIVE (5) YEARS DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.
8. THE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING BRACING, SHORING, LAYDOWN AND PROTECTION OF CONSTRUCTION MATERIALS, ETC. TEMPORARY SHORING AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT ELECTRIC WIRING, IF REQUIRED, BE RUN THROUGH THE STRUCTURAL MEMBERS BEFORE THE BUILDING IS ERECTED.
10. MAKING HOLES, CUTS OR MODIFICATIONS TO THE STRUCTURAL STEEL MEMBERS IS NOT PERMITTED IN THE FIELD WITHOUT SPECIFIC APPROVAL OF POLIGON.

CERTIFICATES:

MIAMI-DADE COUNTY CERTIFICATE OF COMPETENCY NO. 23-0915.11
PCI (POWDER COATING INSTITUTE) 4000 CERTIFIED

FABRICATOR APPROVALS:

CITY OF PHOENIX, AZ APPROVED FABRICATOR #C08-2010
CITY OF LOS ANGELES, CA APPROVED FABRICATOR #FB01596
CITY OF RIVERSIDE, CA APPROVED FABRICATOR #SF_000042
CITY OF HOUSTON, TX APPROVED FABRICATOR #470
CLARK COUNTY, NV APPROVED FABRICATOR #264
STATE OF UTAH APPROVED FABRICATOR 02008-14
AISC APPROVED FABRICATOR C-00024530
AWS CERTIFIED WELDING FABRICATOR #221003F

DESIGN CRITERIA:

GENERAL:
2015 INTERNATIONAL BUILDING CODE
RISK CATEGORY: II

DEAD LOAD:
ROOF DEAD LOAD: 6 PSF
FRAME DEAD LOAD: SELF WEIGHT

LIVE LOAD:
ROOF LIVE LOAD: 20 PSF

SNOW DESIGN DATA:
GROUND SNOW LOAD (Pg): 30 PSF
FLAT ROOF SNOW LOAD (Pf): 25 PSF
SNOW EXPOSURE FACTOR (Ce): 1.0
SNOW LOAD IMPORTANCE FACTOR (Is): 1.0
THERMAL FACTOR (Ct): 1.2
ROOF SLOPE FACTOR (Cs): 1.0
DRIFT SURCHARGE LOAD (Pd): 0 PSF
WIDTH OF SNOW DRIFT (w): 0 FT
MINIMUM HORIZONTAL SEPARATION DISTANCE (s): 20 FT

WIND DESIGN DATA:
BASIC WIND SPEED (V): 115 MPH
ALLOWABLE STRESS DESIGN WIND SPEED (Vasd): 89 MPH
GUST EFFECT FACTOR (G): 0.85
INTERNAL PRESSURE COEFFICIENT (GCpi): 0
WIND EXPOSURE: C

SEISMIC DESIGN DATA:
STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
SEISMIC IMPORTANCE FACTOR (Ie): 1.0
SEISMIC DESIGN CATEGORY: B
SEISMIC SITE CLASS: D
SHORT SPECTRAL RESPONSE (Ss): 0.32
1-SEC SPECTRAL RESPONSE (S1): 0.08
DESIGN SHORT SPECTRAL RESPONSE (SDS): 0.33
DESIGN 1-SEC SPECTRAL RESPONSE (SD1): 0.13
SEISMIC RESPONSE COEFFICIENT (Cs): 0.11
RESPONSE MODIFICATION COEFFICIENT (R): 3.00
EQUIVALENT LATERAL FORCE PROCEDURE
SEE CALCULATIONS FOR ADDITIONAL DATA

ADDITIONAL CRITERIA:
NONE

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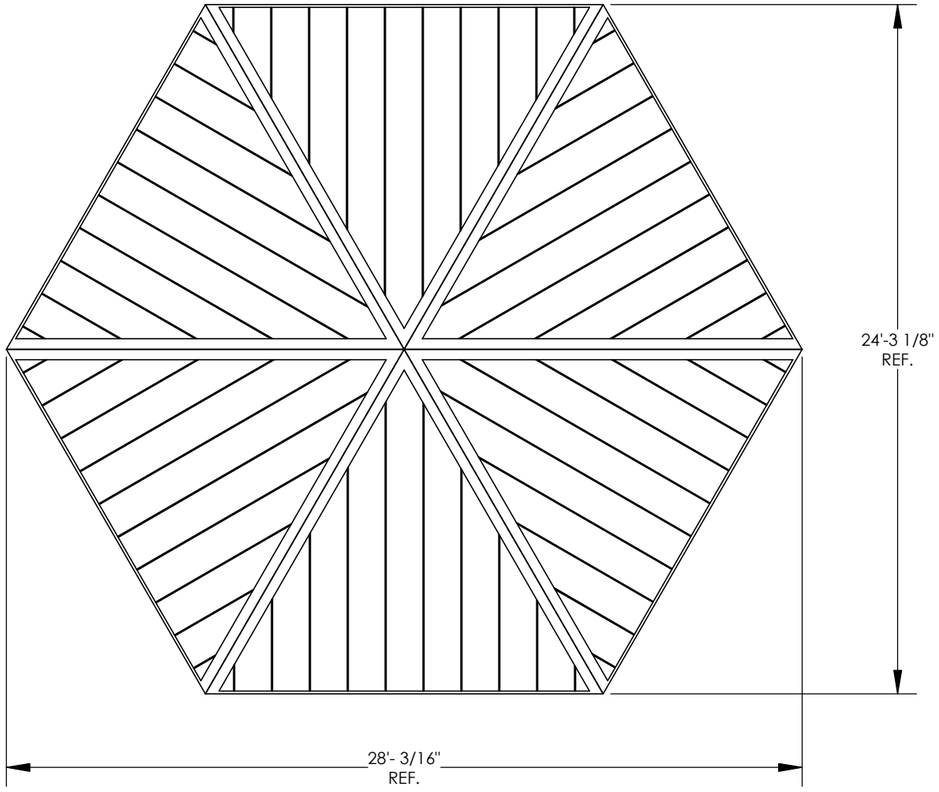
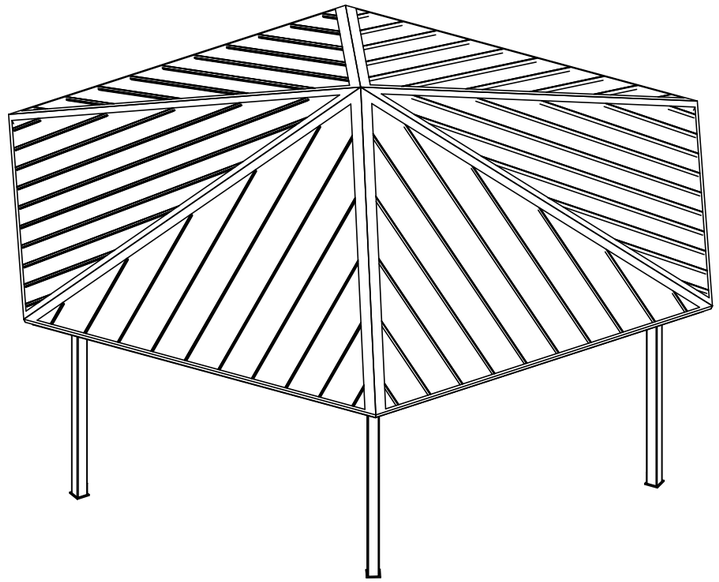
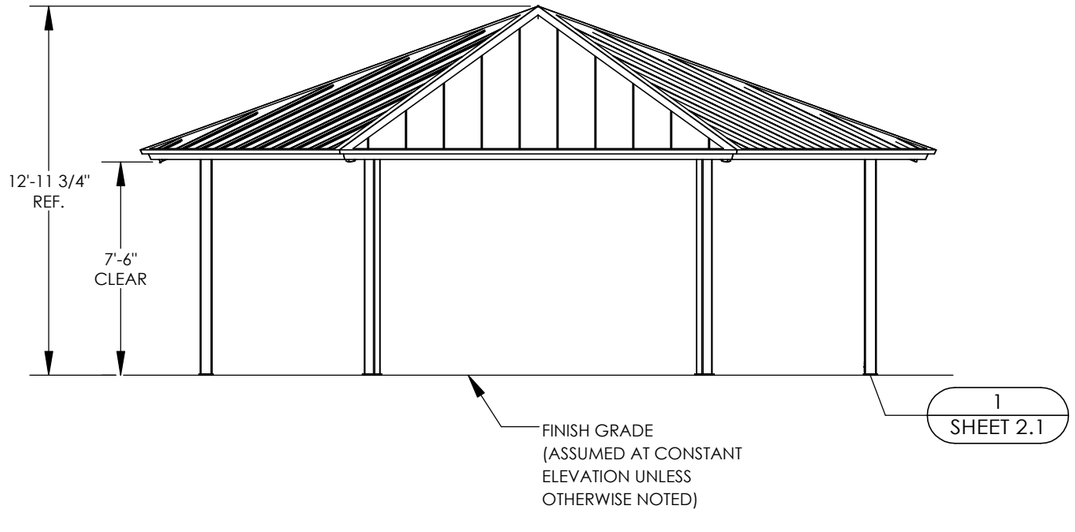
PRINT DATE: 7/29/2024
SCALE: 1:75
DRAWN BY: ryan.borah
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79995
CAD MODEL: ~P19801

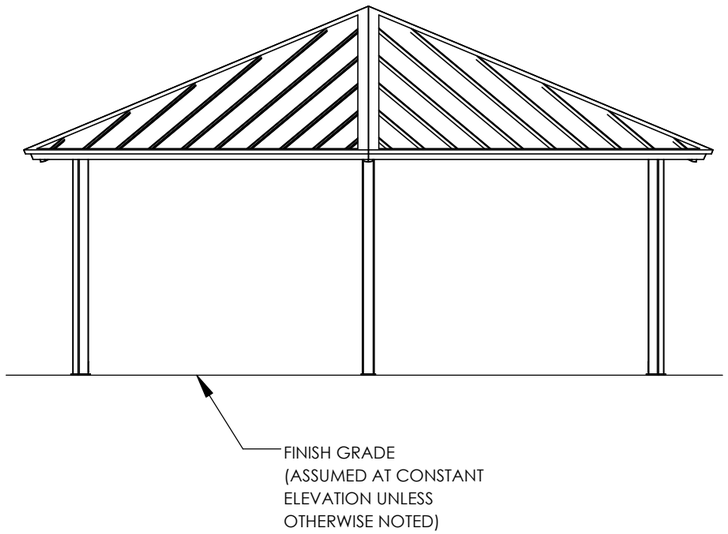
PROJECT: SUN SHELTERS - SYCAMORE PARK
PROJECT LOCATION: MADISON, WI
DRAWING: COVER SHEET

SHEET
CS









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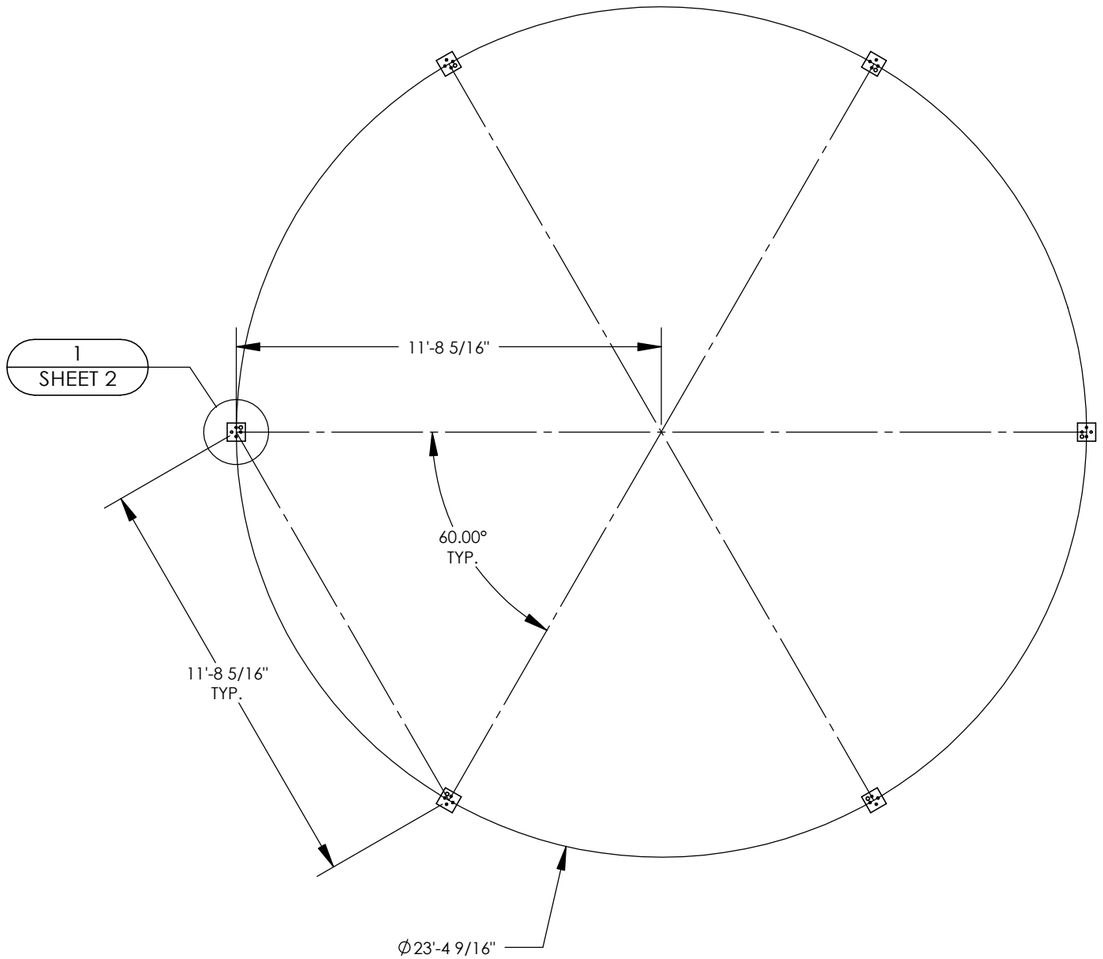
ORDER NO: 79995
CAD MODEL: ~P19801

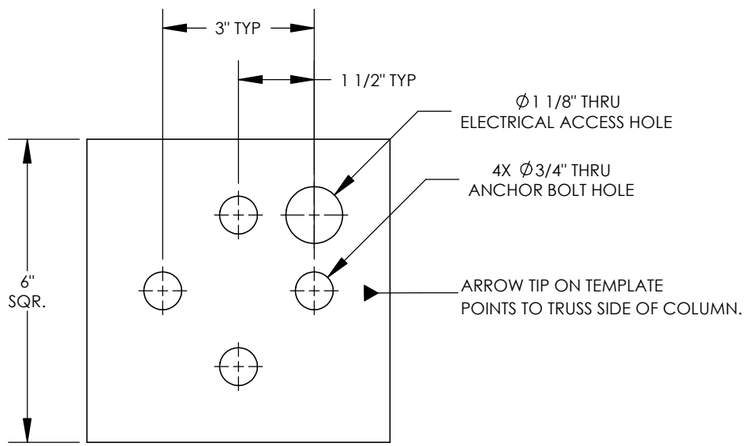
DRAWN BY: ryan.borah
REV LEVEL: A

PRINT DATE: 7/29/2024
SCALE: 1:64

PROJECT: SUN SHELTERS - SYCAMORE PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ARCHITECTURAL ELEVATIONS

SHEET 1





1/2 ANCHOR BOLT PATTERN
BASE PLATE THICKNESS: 1/2"

ANCHOR AND FOOTING LAYOUT NOTES:

1. ANCHORS MUST BE CENTERED IN FOOTINGS
2. FOOTINGS MUST BE TURNED TO ALIGN WITH COLUMN AND TRUSS CENTERLINE.

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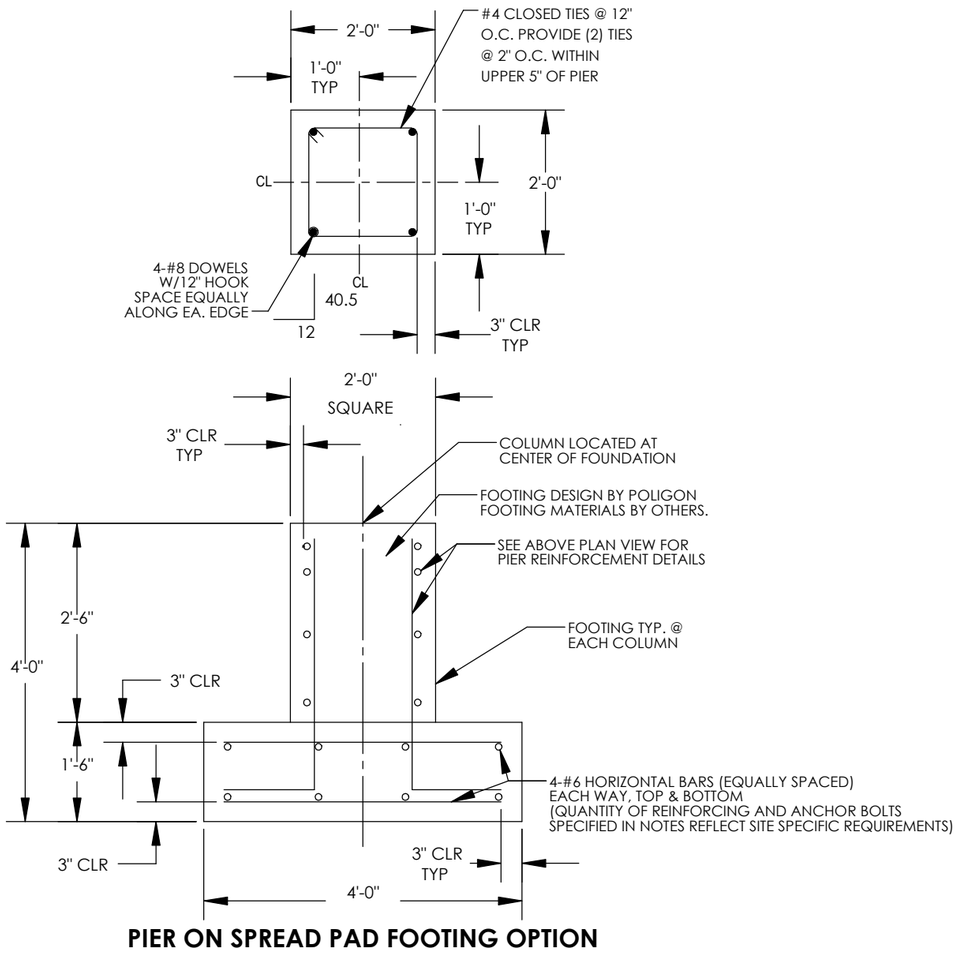
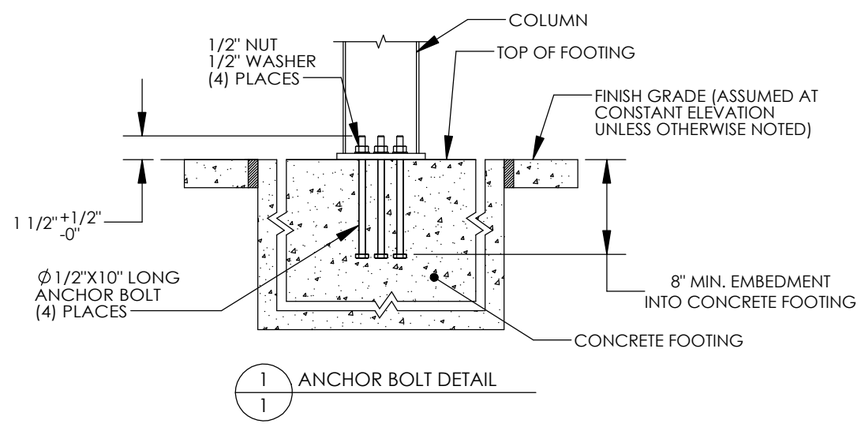
DRAWN BY: ryan.borah
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79995
CAD MODEL: ~P19801

PROJECT: SUN SHELTERS - SYCAMORE PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ANCHOR AND FOOTING LAYOUT

SHEET
2



PIER ON SPREAD PAD FOOTING OPTION



1/1 ANCHOR BOLT DETAIL

ANCHOR BOLT NOTES - INTERNAL (ANCHOR BOLTS LOCATED WITHIN COLUMN):

1. ANCHOR BOLTS SHALL BE ASTM A307 (GRADE A) MATERIAL UNLESS OTHERWISE NOTED.
2. ANCHOR BOLTS SHALL BE EITHER "HEADED" OR "THREADED WITH NUT" AS DEFINED IN THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL.
3. HOOKED ANCHOR BOLTS ARE NOT ACCEPTABLE.
4. ACCURATE ANCHOR BOLT PLACEMENT IS CRITICAL. TO ENSURE THE ANCHOR BOLT LAYOUT MEETS THE DIMENSIONS REQUIRED ON THE DRAWINGS, SURVEY (OR MEASURE) THE LOCATION OF ALL ANCHOR BOLTS PRIOR TO POURING THE FOOTINGS. AN ADDITIONAL SURVEY (OR MEASUREMENT) SHOULD BE MADE AFTER THE FOOTINGS ARE POURED TO CONFIRM THE ANCHOR BOLTS DID NOT SHIFT DURING THE CONCRETE POUR.
5. THE MANUFACTURER STRONGLY RECOMMENDS USING ANCHOR BOLT TEMPLATES BECAUSE THEY SIGNIFICANTLY IMPROVE THE ACCURACY OF ANCHOR BOLT PLACEMENT. AN ANCHOR BOLT TEMPLATE IS PROVIDED WITH ANY ANCHOR BOLT KIT PURCHASED.
6. IF OUTSIDE CONSULTING ENGINEERS ARE DESIGNING THE FOUNDATIONS FOR THIS STRUCTURE, THEY MUST REFER TO THE MANUFACTURER'S CALCULATIONS FOR MINIMUM CONCRETE PROPERTIES (COMPRESSIVE STRENGTH, EDGE DISTANCE, ETC.) REQUIRED FOR THE ANCHOR BOLT DESIGN.
7. ELECTRICAL ACCESS HOLE IS ALWAYS LOCATED IN THE COLUMN BASE PLATE AS SHOWN. BE SURE TO KEEP THE ANCHOR BOLT TEMPLATE PROPERLY ORIENTED WHEN ELECTRICAL ACCESS TO THE COLUMN IS REQUIRED. TEMPLATE MUST BE REMOVED BEFORE INSTALLING COLUMNS.
8. THE CALCULATIONS FOR THIS STRUCTURE ASSUME A PINNED COLUMN BASE.
9. THE FOLLOWING ADHESIVE ANCHORS MAY BE SUBSTITUTED FOR THE CAST-IN-PLACE ANCHOR BOLTS:
   -HILTI HIT-HY 200 (A OR R) V3 ADHESIVE WITH Ø 1/2" HAS-E ROD WITH 6" EFFECTIVE EMBEDMENT.
   CONTRACTOR SHALL FOLLOW ALL INSTALLATION SPECIFICATIONS AND REQUIREMENTS OF ANCHOR MANUFACTURER.

CONCRETE NOTES:

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE CURRENT "ACI MANUAL OF CONCRETE PRACTICE".
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE II OR TYPE V.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE CONCRETE MIX DESIGN MEETS THE "ACI MANUAL OF CONCRETE PRACTICE" REQUIREMENTS FOR CONCRETE BY EXPOSURE CLASS.
4. THE USE OF CHLORIDE ACCELERATORS IS NOT PERMITTED.
5. COARSE AGGREGATE SHALL BE #57 OR LARGER.
6. CONCRETE AT PLACEMENT SHALL HAVE A SLUMP OF 4" +/- 1".
7. MINIMUM CONCRETE COMPRESSIVE STRENTGH AT 28 DAYS: 4500 PSI.
8. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A615 (DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A305) AS FOLLOWS:
   GRADE 60: #4 BARS AND LARGER
   GRADE 40: #3 BARS
9. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
10. MAINTAIN 3" CONCRETE COVERAGE TO FACE OF BARS UNLESS OTHERWISE NOTED.
11. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
12. WELDING OF REINFORCEMENT IS NOT ALLOWED.
13. ALL EXPOSED EXTERNAL CORNER OF FOUNDATIONS TO BE CHAMFERED BY 3/4" BY 45 DEGREES UNLESS NOTED OTHERWISE.
14. ALL NEW CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OF REMOVING FORMWORK. CURING SHALL BE EITHER A MOIST CURE METHOD OR THE USE OF A CURING COMPOUND.

FOUNDATION NOTES:

1. FOUNDATIONS SHALL BEAR ON COMPETENT, UNDISTURBED SOIL OR 95% COMPACTED FILL. IF SIGNS OF ORGANIC MATERIAL, UNCONTROLLED FILL, CLAY OR SILT, HIGH WATER TABLE OR OTHER POSSIBLE DETRIMENTAL CONDITIONS ARE FOUND, CONSTRUCTION OF THE FOUNDATIONS MUST BE STOPPED AND A GEOTECHNICAL ENGINEER BE CONTACTED.
2. NO FOUNDATIONS SHALL BE PLACED INTO OR ADJACENT TO SUBGRADE CONTAINING WATER, ICE, FROST, ORGANIC OR LOOSE MATERIAL.
3. WATER SHALL NOT BE PERMITTED TO ACCUMULATE IN FOUNDATION EXCAVATIONS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCAL FROST DEPTH REQUIREMENT PRIOR TO CONSTRUCTION.
5. IF FOUNDATIONS SHOWN DO NOT MEET LOCAL FROST DEPTH REQUIREMENTS, EXTEND THE DRILLED PIER FOUNDATION AS REQUIRED, EXTENDING THE VERTICAL BARS AND PROVIDING ADDITIONAL TIES TO MEET SPACING REQUIREMENTS AS SHOWN. IF FROST DEPTH REQUIREMENTS ARE NOT MET, AND NO DRILLED PIER DESIGN IS PROVIDED, CONTACT POLIGON.
6. ALLOWABLE SOIL PRESSURES (AS APPLICABLE):

SPREAD PAD	
VERTICAL BEARING	1000 PSF
LATERAL COHESION	130 PSF

THE FOUNDATION DESIGN CONTAINED HEREIN IS SITE SPECIFIC, AND IS BASED ON SYCAMORE PARK SHELTER GEOTECH C19051-18, SYCAMORE PARK, BY CGC INC. DATED 2/1/2020. REPORT NO. C19051-18.
PROPER CARE MUST BE TAKEN TO ENSURE ANY AND ALL RECOMMENDATIONS, OF THE ABOVE-MENTIONED REPORT, FOR SITE PREPARATION, SOIL PERFORMANCE AND FOUNDATION DESIGN ARE MET. IF CONDITIONS ARE PRESENT THAT DO NOT ALLOW FOR THESE RECOMMENDATIONS TO BE MET, THE GEOTECHNICAL ENGINEER MUST BE CONTACTED.

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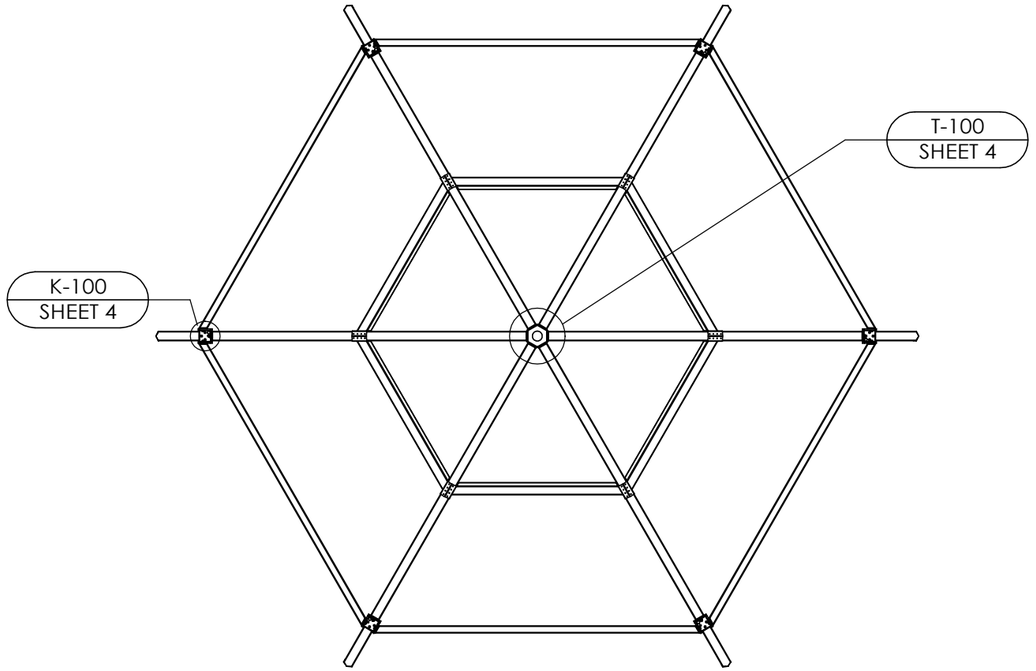
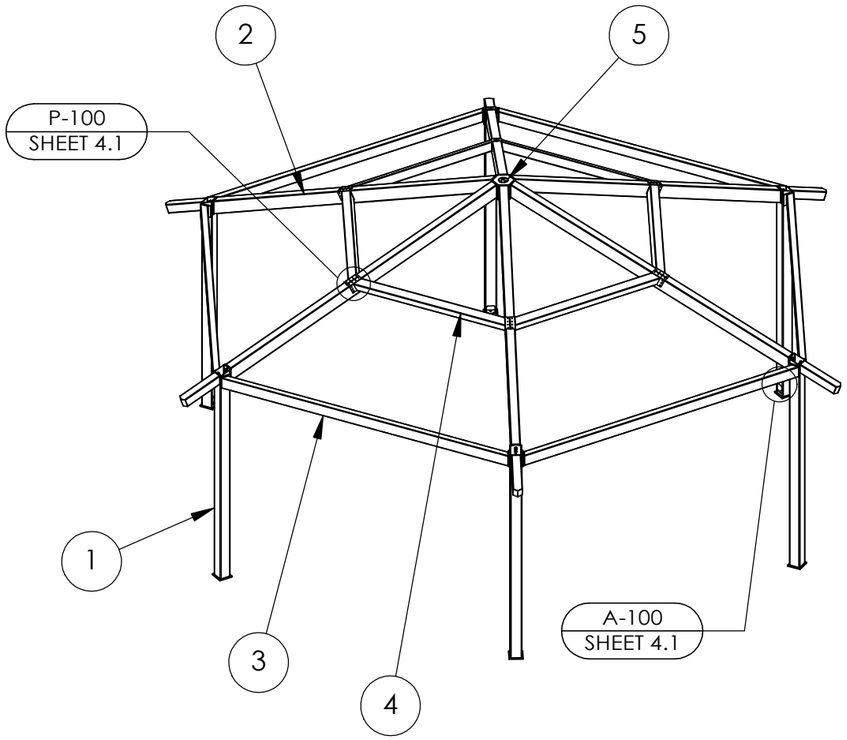
by PORTER CORP

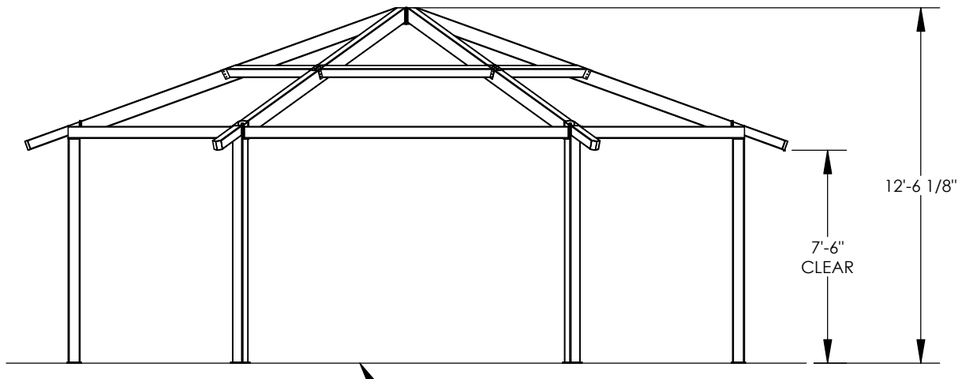
PRINT DATE: 7/29/2024
SCALE: 1:12
DRAWN BY: ryan.borah
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79995
CAD MODEL: ~P19801

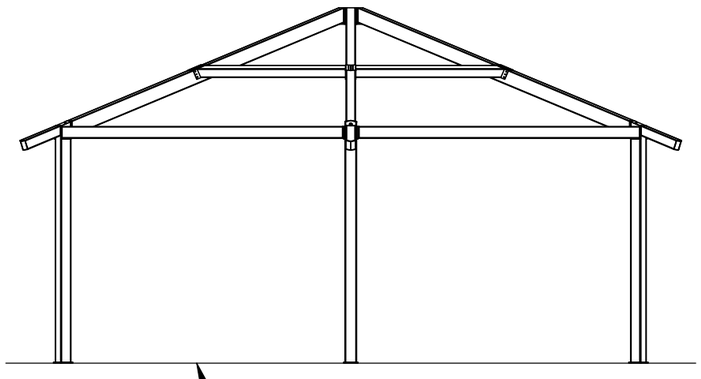
PROJECT: SUN SHELTERS - SYCAMORE PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ANCHOR AND FOOTING DETAILS

SHEET
2.1









ITEM	QTY.	PART NO.	DESCRIPTION	MATERIAL	WEIGHT
5	1	-	HEX C-RING ASM	3/8" PLATE	28.62
4	6	-	PURLIN A ASM	HSS4"X4"X1/8"	40.07
3	6	-	T-MEM ASM	HSS5"X3"X1/8"	76.22
2	6	-	TRUSS ASM	HSS6"X4"X1/8"	100.01
1	6	-	COLUMN ASM	HSS5"X5"X3/16"	121.92

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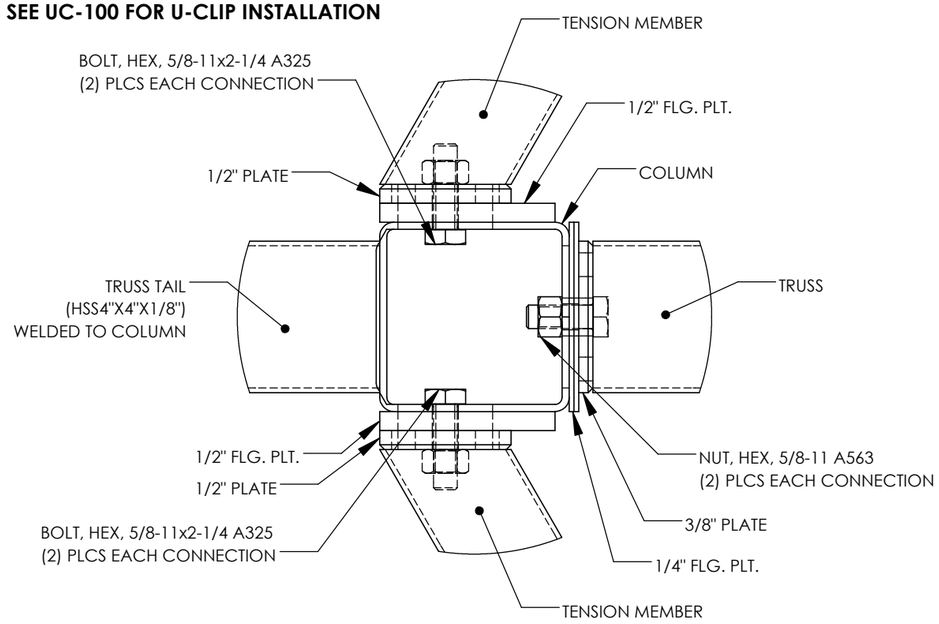
REV LEVEL: A
CREATION DATE: 11/15/2016
ORDER NO: 79995
CAD MODEL: ~P19801

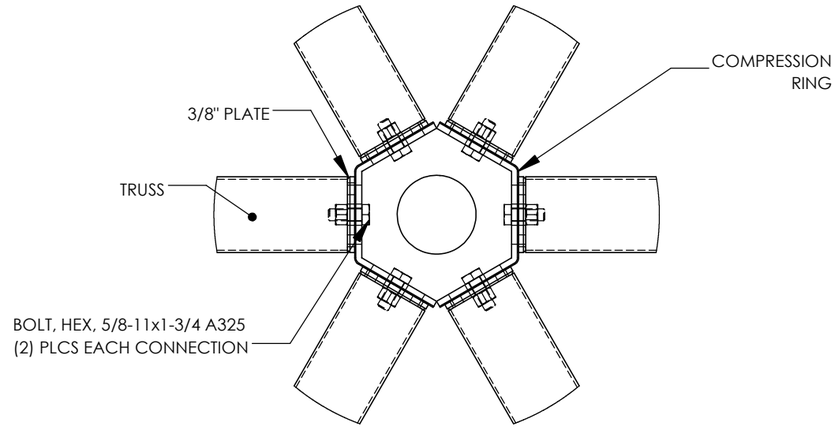
PROJECT: SUN SHELTERS - SYCAMORE PARK
PROJECT LOCATION: MADISON, WI
DRAWING: STRUCTURAL FRAMING PLAN

SHEET
3

NOTE:
SEE UC-100 FOR U-CLIP INSTALLATION



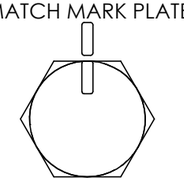
COLUMN CONNECTIONS	K-100



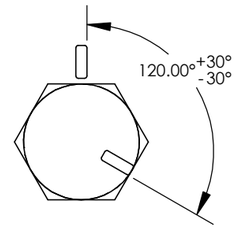
COMPRESSION MEMBER CONNECTION	T-100

TURN-OF-NUT PRETENSIONING METHOD:
THESE STEPS ILLUSTRATE THE REQUIREMENTS OUTLINED IN THE AISC SPECIFICATION. THE ROTATION INDICATED IS ACCURATE FOR MOST BOLT DIAMETERS AND LENGTHS BUT IT IS THE RESPONSIBILITY OF THE INSTALLER TO MEET AISC REQUIREMENTS.

STEP ONE:
AFTER SNUG TIGHT,
MATCH MARK PLATE



STEP TWO:
THEN TURN BOLT/NUT PAST
SNUG TIGHT 1/3 TURN



CONNECTION NOTES:

1. HIGH STRENGTH BOLTS SHALL BE ASTM F3125 (A325, TYPE 1) MATERIAL.
2. HIGH STRENGTH NUTS SHALL BE ASTM A563 (GRADE DH) MATERIAL.
3. HIGH STRENGTH WASHERS SHALL CONFORM TO ASTM F436.
4. UNLESS A SNUG-TIGHT JOINT IS PERMITTED IN THE CONNECTION DETAIL, ALL BOLTS ARE TO BE INSTALLED BY ONE OF THE FOLLOWING PRETENSIONING METHODS AS SPECIFIED IN THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", SECTION 8:
   A. TURN-OF-NUT PRETENSIONING
   B. CALIBRATED WRENCH PRETENSIONING
5. THE SNUG-TIGHT CONDITION IS 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 CONNECTED PLIES INTO FIRM CONTACT.
6. ANCHOR BOLTS NEED NOT BE TIGHTENED PAST SNUG-TIGHT.
7. WHEN INSTALLING BOLTS REFER TO SECTIONS 8.4.1, 8.4.2, AND 8.4.3 OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" FOR GUIDANCE.
8. LOCAL JURISDICTIONS MAY REQUIRE AN INSPECTOR TO BE PRESENT TO WITNESS HARDWARE INSTALLATION AND INDEPENDENT TESTING. INSPECTION REQUIREMENTS SHOULD BE VERIFIED BY INSTALLER PRIOR TO STEEL ERECTION.
9. ERECTION OF THE FRAMING MEMBERS WILL REQUIRE THE MAIN COLUMNS TO BE PLUMB SQUARE AND TIGHTENED TO THE TRUSSES AND/OR TENSION MEMBERS BEFORE INSTALLING THE PURLINS. PURLINS, IF REQUIRED, MUST BE AS SHOWN IN FRAMING PLAN.
10. TEMPORARY SHORING OR BRACING SHALL BE USED TO COMPACT THE JOINTS UNTIL THE CONNECTED PLIES ARE IN FIRM CONTACT PRIOR TO PRETENSIONING.
11. PRIOR TO THE ERECTION OF SHELTER COMPONENTS, IT IS RECOMMENDED TO CHASE AND TAP STRUCTURAL HARDWARE.
12. ALL BOLTS MUST BE LUBRICATED WITH WAX TO ASSIST IN PROPER TIGHTENING. TO LUBRICATE A BOLT IN THE FIELD, APPLY THE WAX STICK DOWN THE LENGTH OF THE BOLT'S THREADS.
13. TO PREVENT RUST STAINING OF FINISH, ALL METAL SHAVINGS MUST BE REMOVED AFTER INSTALLATION. ENSURE NO SHAVING ARE TRAPPED BETWEEN MATING SURFACES.
14. TOUCH-UP PAINT MUST BE APPLIED TO ALL EXPOSED FASTENERS. PERIODIC TOUCH-UP AT THESE CONNECTIONS IS REQUIRED.

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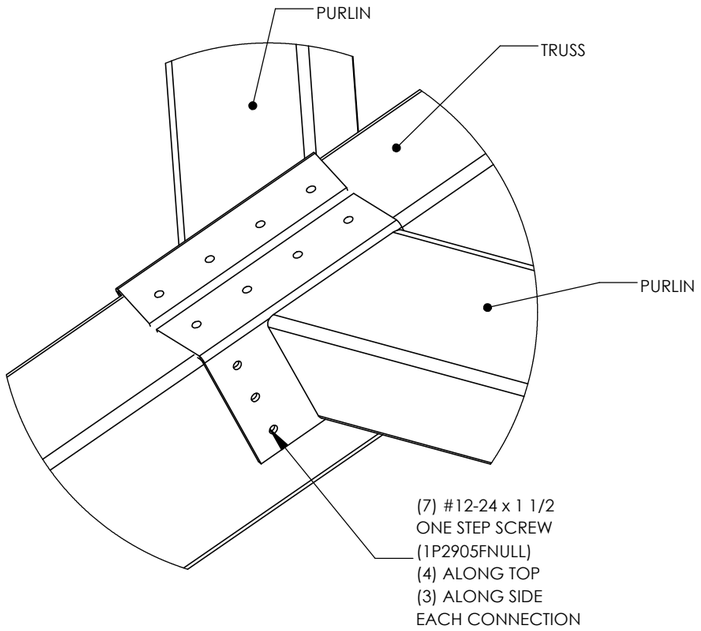
CAD MODEL: ~P19801

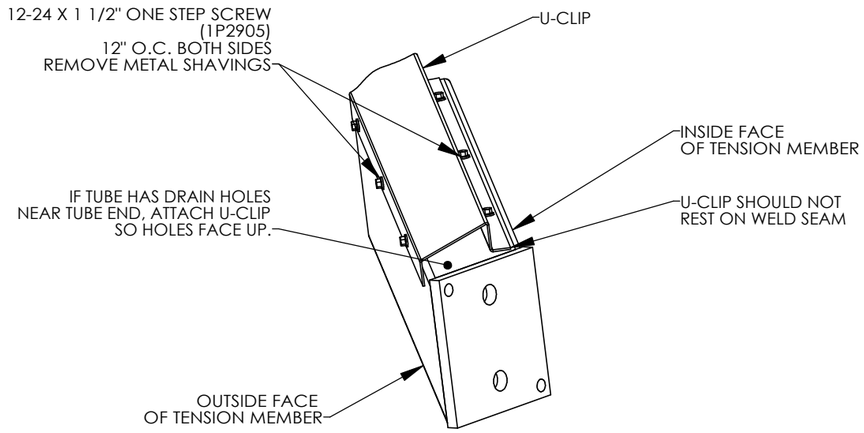
PROJECT: SUN SHELTERS - SYCAMORE PARK
PROJECT LOCATION: MADISON, WI
DRAWING: FRAME CONNECTION DETAILS

SHEET
4

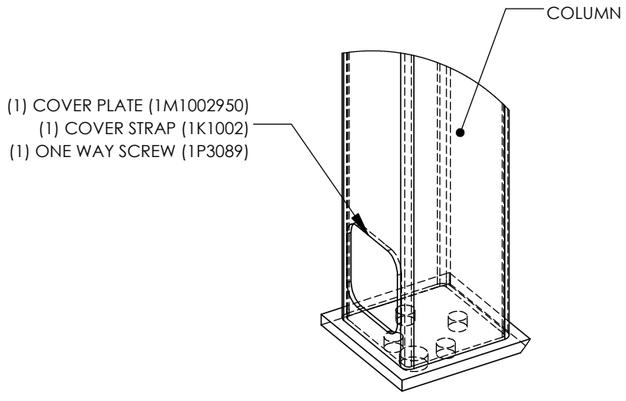


PURLIN CONNECTION | P-100

NOTE:
U-CLIP MUST BE ATTACHED TO TENSION MEMBER AS SHOWN PRIOR TO BUILDING ASSEMBLY.



U-CLIP CONNECTION | UC-100



ANCHOR ACCESS COVER PLATE | A-100

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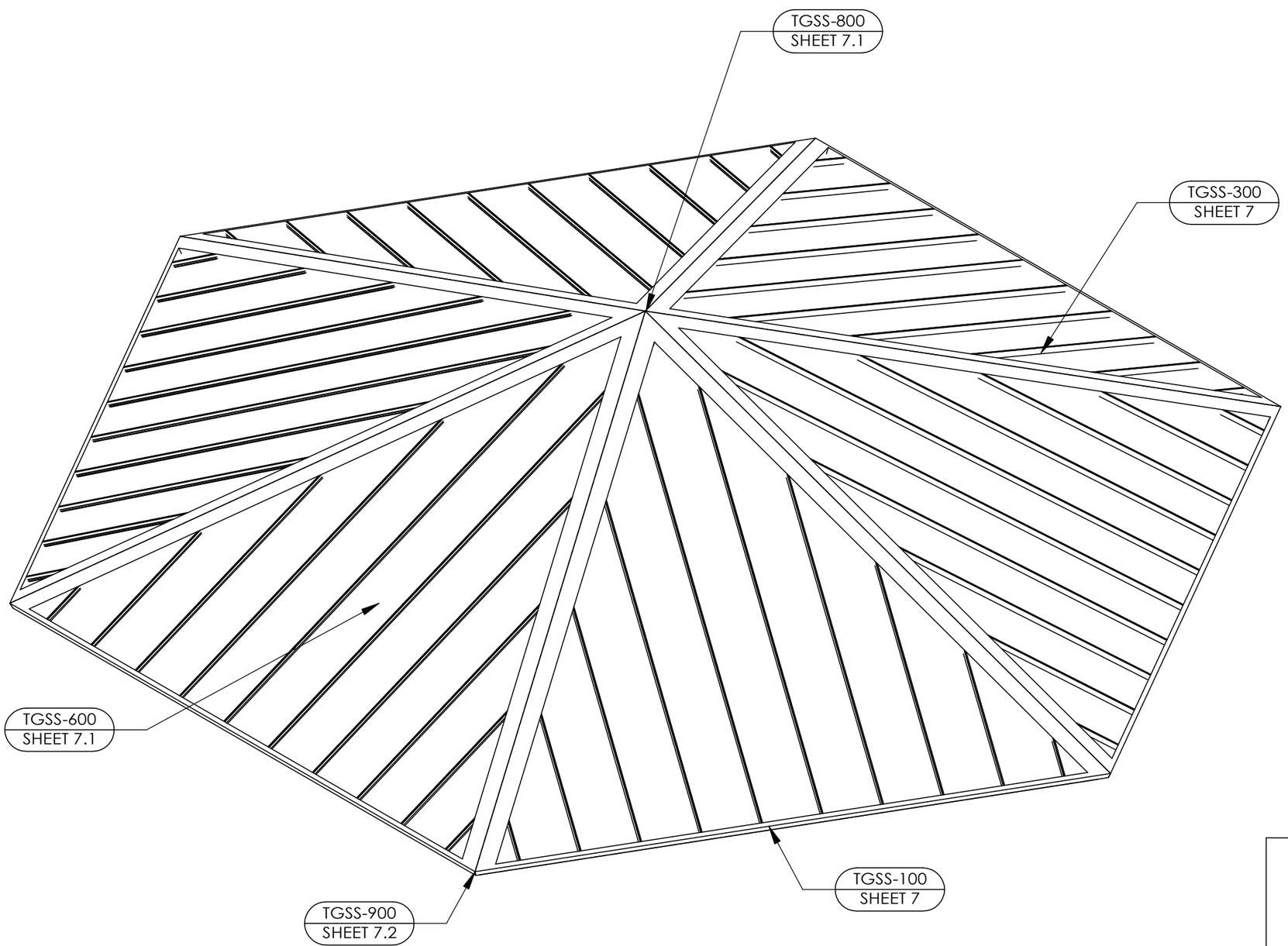
PROJECT LOCATION: MADISON, WI
DRAWING: FRAME CONNECTION DETAILS

SHEET
4.1



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PROJECT: SUN SHELTERS - SYCAMORE PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF OVERVIEW

SHEET 6

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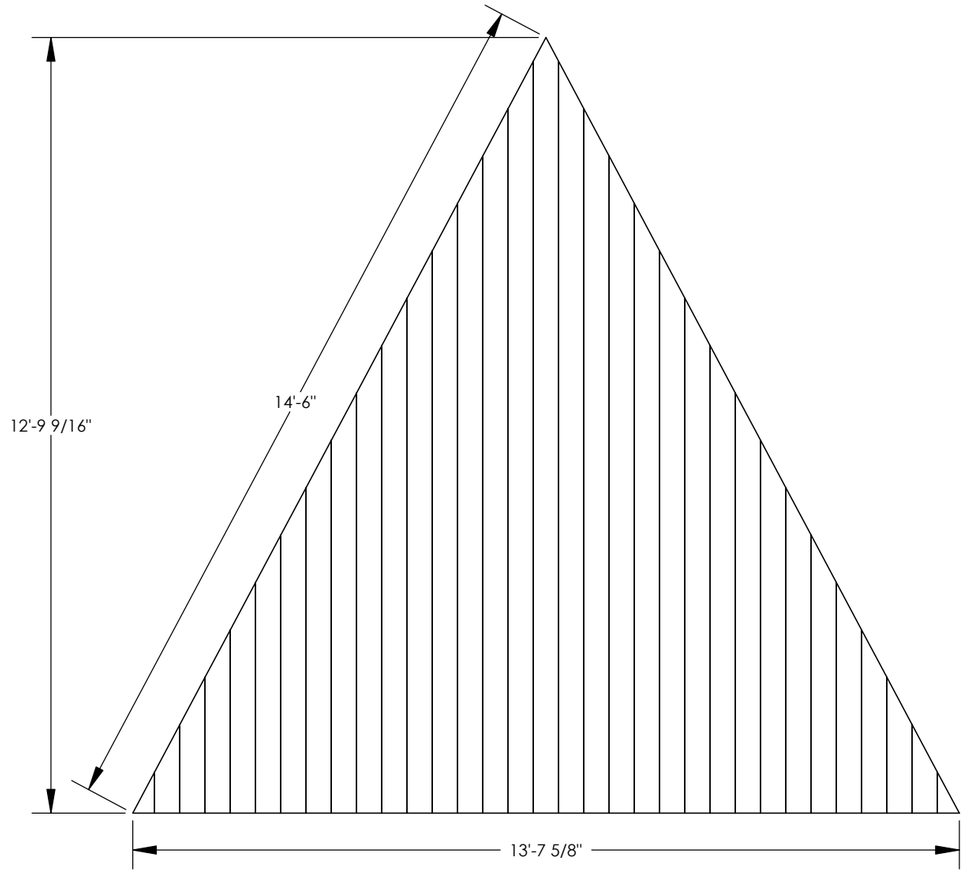
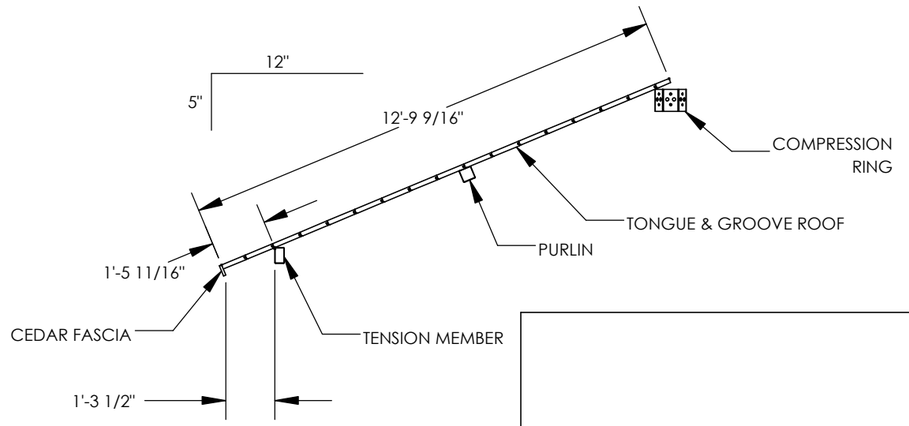


TONGUE & GROOVE NOTES:

1. THE FIRST PLANK SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK. MAKE SURE PLANKS EXTEND ENOUGH TO COVER EAVE, TRUSSES, AND/OR THE CENTER OF THE PEAK.
2. THE T&G PROVIDED MAY CONTAIN SOME MINOR IMPERFECTIONS. REMOVE THESE IMPERFECTIONS AS REQUIRED AND USE REMAINDER OF MATERIAL TO ATTAIN MAXIMUM YIELD.
3. NO END JOINTS IN DECKING BETWEEN STRUCTURAL FRAMING AND EAVE OF DECKING.
4. A MINIMUM OF 24" SPACING IS REQUIRED BETWEEN ALL ADJACENT END JOINTS. BOARD LAYOUT MAY REQUIRE VISIBLE SPLICES.
5. IF PRE-STAINED T&G IS ORDERED, TOUCH-UP AT FIELD CUT EDGES MAY BE NECESSARY.
6. POLIGON RECOMMENDS ALL T&G BE STAINED/SEALED TO IMPROVE LONG TERM PERFORMANCE.

FOR BEST APPEARANCE POLIGON SUGGESTS THAT ALL END JOINTS BE MITERED @ 45°



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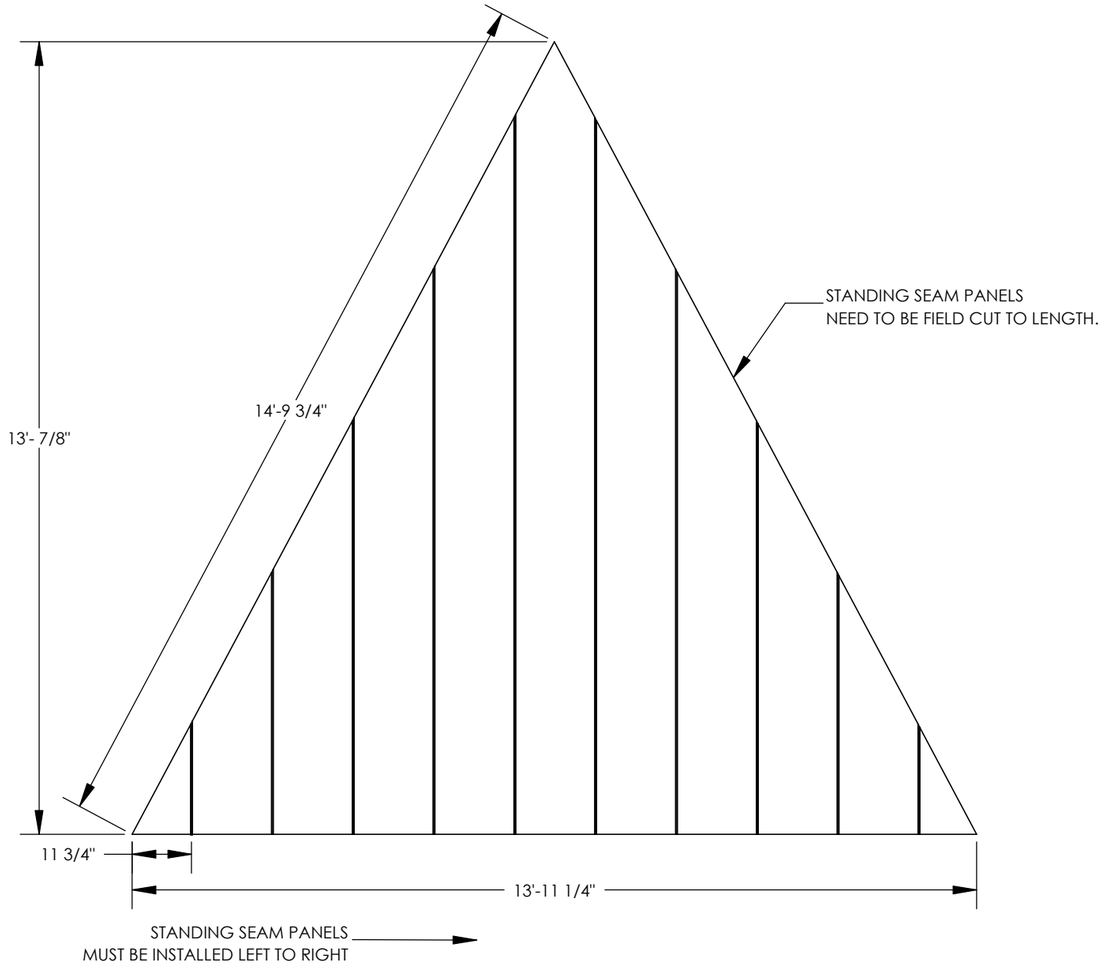
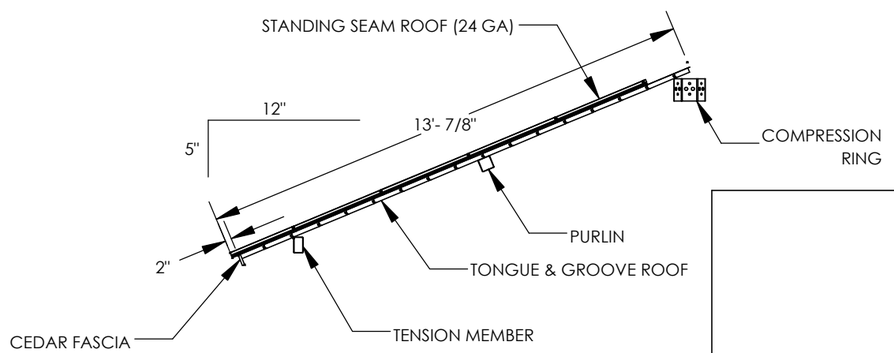
PROJECT: SUN SHELTERS - SYCAMORE PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF LAYOUT

SHEET
6.1



MULTI-RIB NOTES:

1. THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE SYSTEMS. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGNS OR CODES. THE DETAILS MAY REQUIRE CHANGES OR REVISIONS DUE TO FIELD CONDITIONS.
2. IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.
3. THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH ALL ERECTION INSTRUCTIONS BEFORE STARTING WORK.
4. THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.
5. FLASHING AND TRIM SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ANY EXPOSED FASTENERS EQUALLY SPACED FOR THE BEST APPEARANCE.
6. SEALANT SHALL BE FIELD APPLIED ON DRY, CLEAN SURFACES. SOME FIELD CUTTING AND FITTING OF PANELS AND FLASHING IS TO BE EXPECTED BY THE ERECTOR AND MINOR FIELD CORRECTIONS ARE A PART OF NORMAL ERECTION WORK.
7. WORKMANSHIP SHALL BE OF THE BEST INDUSTRY STANDARDS AND INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN.
8. METAL SHAVINGS FROM DRILLING OR INSTALLATION OF ROOF FASTENERS MUST BE CAREFULLY REMOVED FROM THE ROOF BY BRUSHING OR SWEEPING AT THE END OF EACH DAY DURING INSTALLATION. SHAVINGS LEFT ON THE ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH.



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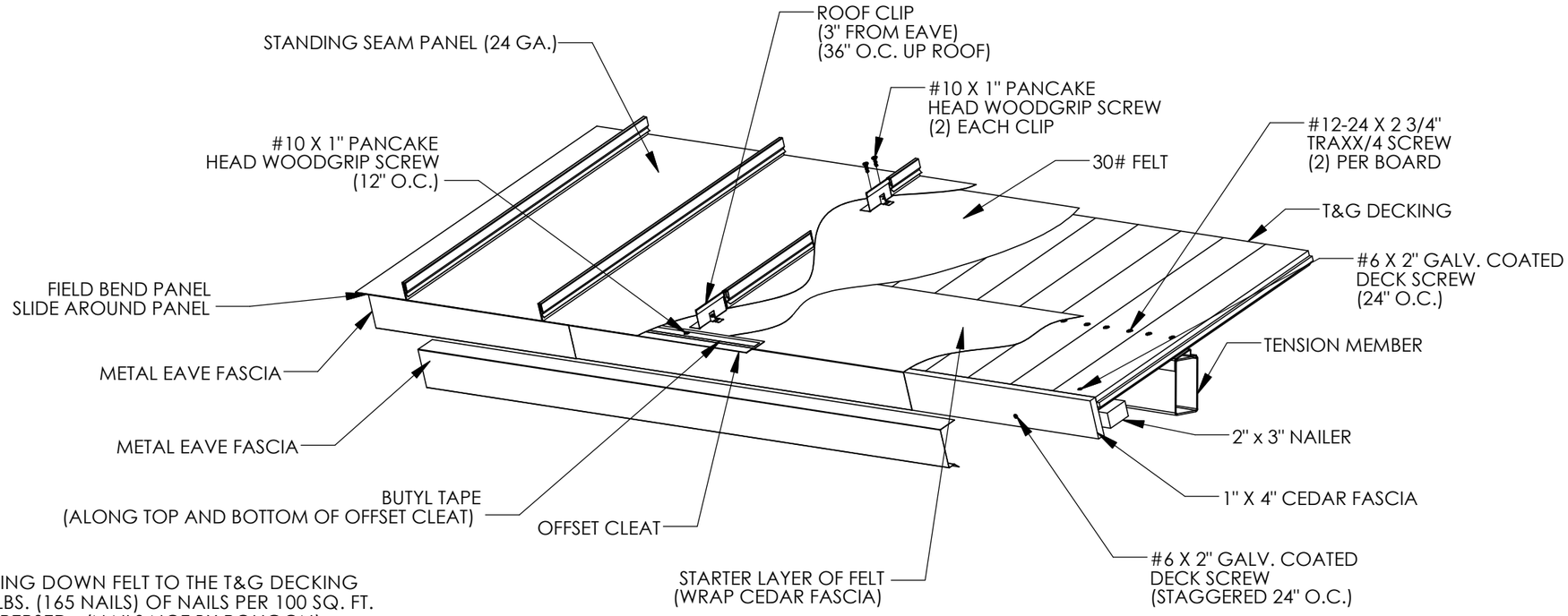
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF LAYOUT

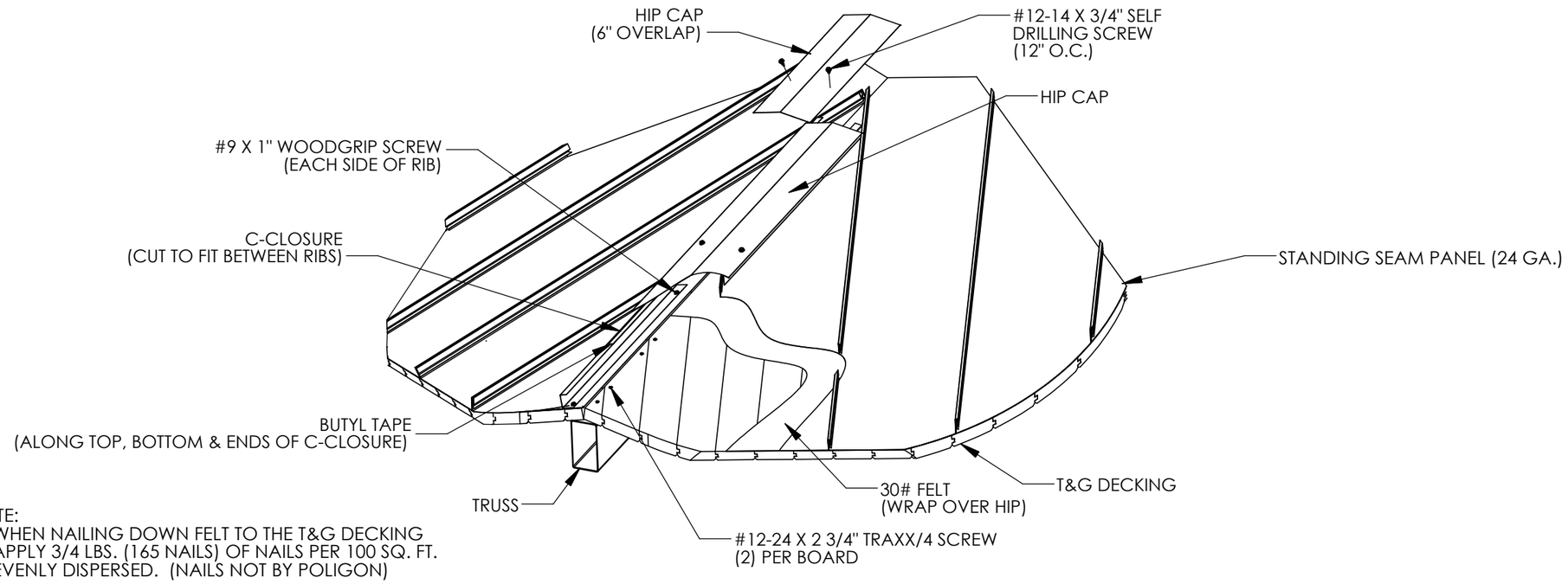
SHEET
6.2



NOTE:
WHEN NAILING DOWN FELT TO THE T&G DECKING APPLY 3/4 LBS. (165 NAILS) OF NAILS PER 100 SQ. FT. EVENLY DISPERSED. (NAILS NOT BY POLIGON)

EAVE DETAIL | TGSS-100

2022A



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TRUSS DETAIL | TGSS-300

2023A

PART DESCTIPTIONS:

- 1/8" POP RIVET
- #6 x 2" GALV. COATED DECK SCREW
- #9x1" WOODGRIP SCREW
- #12-14x3/4" SELF DRILLING SCREW
- #12-24x2.75 TRAXX/4 SCREW
- 1" GALVANIZED ROOFING NAIL (NOT BY POLIGON)

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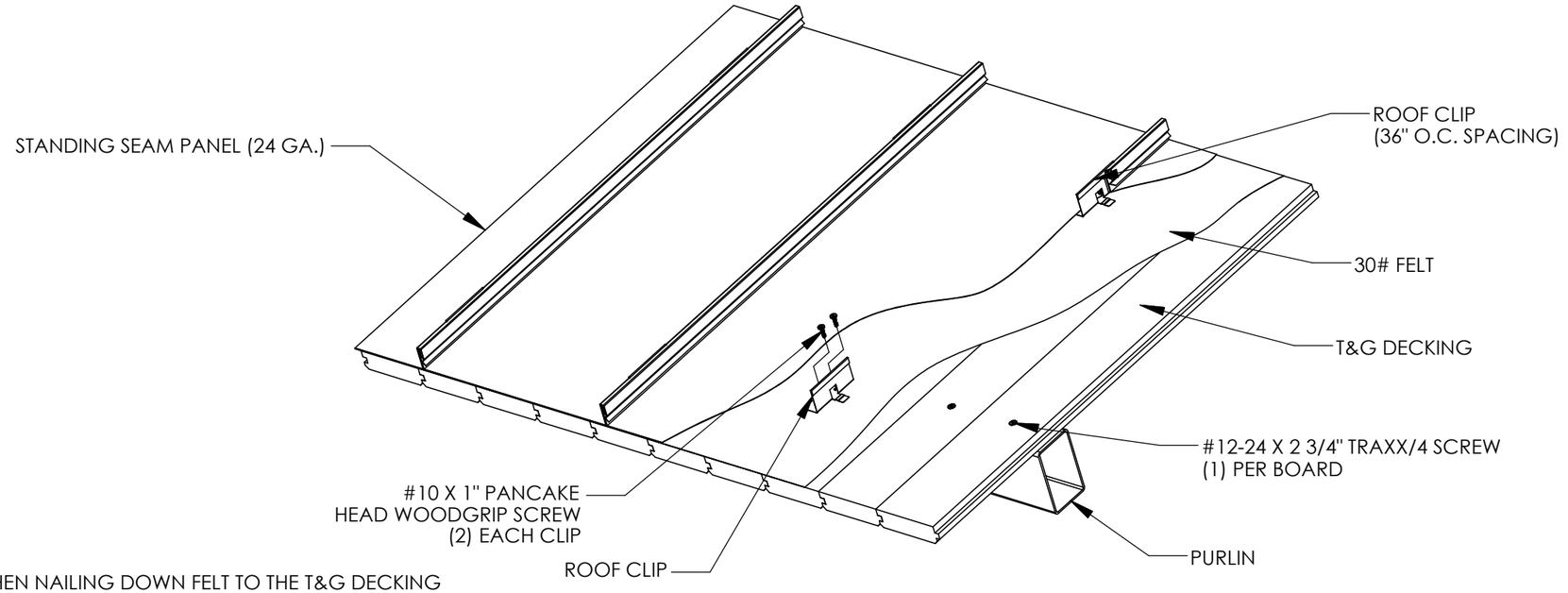
PROJECT: SUN SHELTERS - SYCAMORE PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF CONNECTION DETAILS

SHEET 7



NOTE:
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APPLY 3/4 LBS. (165 NAILS) OF NAILS PER 100 SQ. FT.
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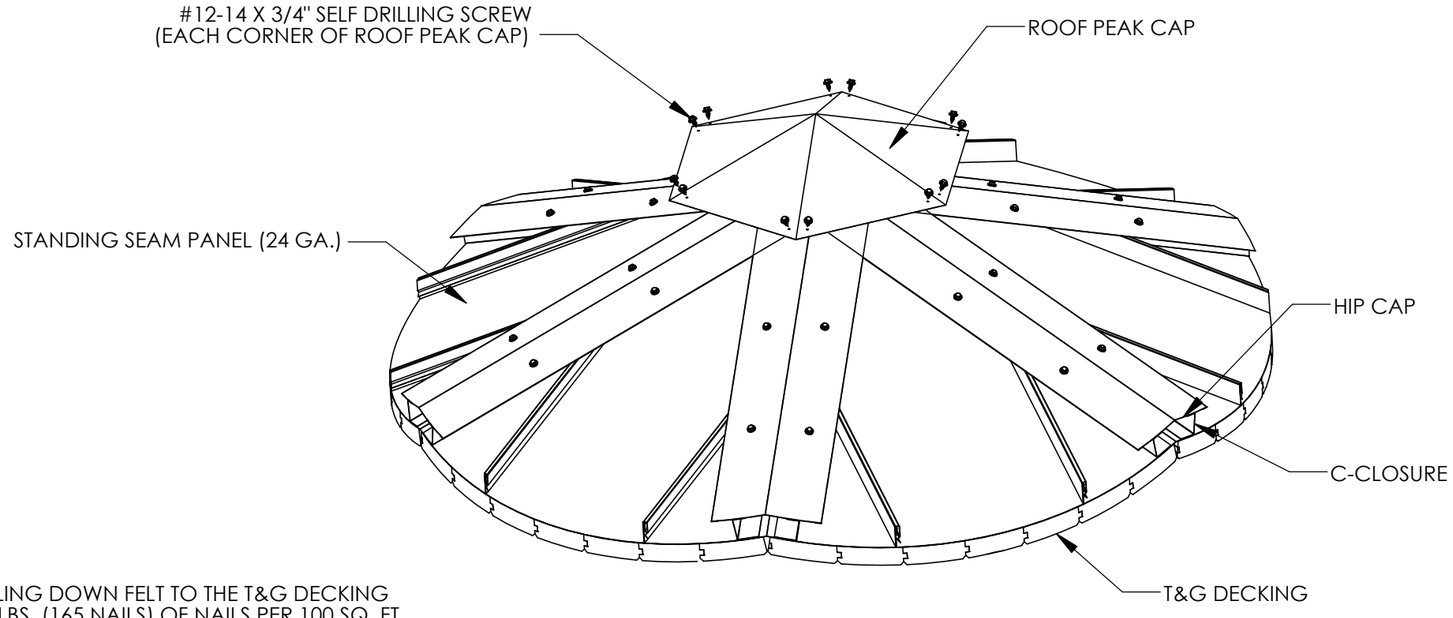
2022A | MID SPAN DETAIL | TGSS-600



NOTE:
WHEN NAILING DOWN FELT TO THE T&G DECKING
APPLY 3/4 LBS. (165 NAILS) OF NAILS PER 100 SQ. FT.
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2022A | ROOF PEAK DETAIL | TGSS-800

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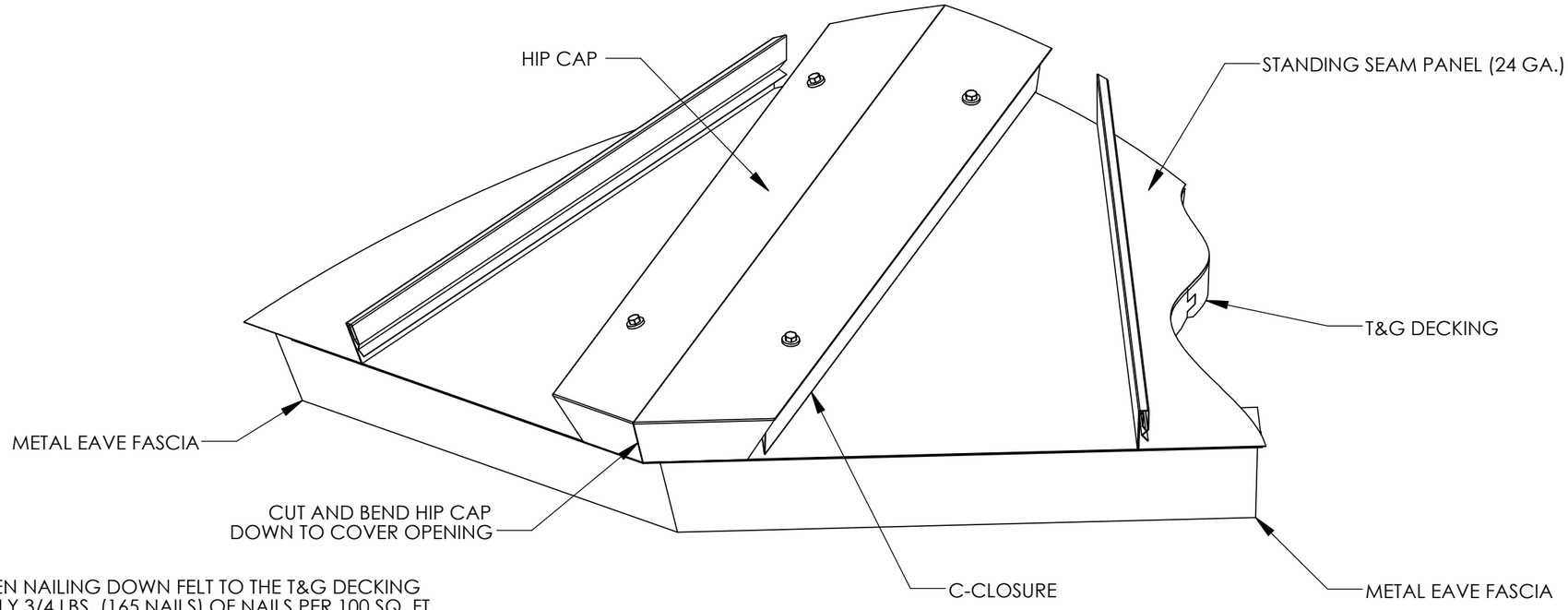
CAD MODEL: ~P19801

PROJECT: SUN SHELTERS - SYCAMORE PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF CONNECTION DETAILS

SHEET
7.1



NOTE:
WHEN NAILING DOWN FELT TO THE T&G DECKING
APPLY 3/4 LBS. (165 NAILS) OF NAILS PER 100 SQ. FT.
EVENLY DISPERSED. (NAILS NOT BY POLIGON)

2022A

CORNER DETAIL

TGSS-900

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ORDER NO: 79995
CAD MODEL: ~P19801

PROJECT: SUN SHELTERS - SYCAMORE PARK
PROJECT LOCATION: MADISON, WI
DRAWING: ROOF CONNECTION DETAILS

SHEET
7.2