

LEGEND

PT LOAD ABOVE DENOTES COLUMN ABOVE

☑ DENOTES COL. FROM ABOVE, CONT. THROUGH FLOOR FRAMING, SUPPORTED BY FTG. FOUNDATIONS OR PLANK

☑ DENOTES COL. SUPPORTING FLOOR FRAMING

█ DENOTES BEARING WALL

C# DENOTES COLUMN MARK

B# DENOTES BEAM MARK

F# DENOTES FOOTING MARK

P# DENOTES PIER MARK

TRUSSES = PRE-ENGINEERED METAL-PLATE-CONNECTED WOOD TRUSSES

GT GIRDER TRUSS

B# BEAM

OVERBUILD FRAMING

FOUNDATION WALL

FOOTING

◀ MOMENT CONNECTION

ABBREVIATIONS

SYM
& # AND NUMBER

A
ALUM ALUMINUM
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX APPROXIMATE
ARCH ARCHITECTURAL (ARCHITECT)
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS

B
BF BOTH FACES
BLDG BUILDING
BLK BLOCK
BLKG BLOCKING
BOF BOTTOM OF FOOTING
BOT BOTTOM
BRG BEARING
BRKT BRACKET
BTWN BETWEEN

C
CIP CAST-IN-PLACE
CJ CONTROL JOINT
CL CENTER LINE
CLR CLEAR
CMU CONCRETE MASONRY UNIT
COL COLUMN
CONC CONCRETE

D
DEG DEGREE
DEMO DEMOLITION
DET DETAIL
DIA DIAMETER
DIST DISTANCE
DL DEAD LOAD

ABBREVIATIONS (cont)

E
EA EACH FACE
EF EACH FACE
EJ EXPANSION JOINT
EL ELEVATION
ENG ENGINEER
ENTR ENTRANCE
EQ EQUAL
EQUIP EQUIPMENT
ES EACH SIDE
EW EACH WAY
EX EXISTING
EXP EXPANSION (EXPOSED)

F
FD FLOOR DRAIN
FF FINISHED FLOOR
FIN FINISH/FINISHED
FT FOOT/FEET
FTG FOOTING

G
GA GAGE
GALV GALVANIZED
GB GYPSUM BOARD
GT GIRDER TRUSS
GYP GYPSUM

H
HDR HEADER
HORIZ HORIZONTAL
HR HOUR
HT HEIGHT

I
IN INCH/INCHES
INSUL INSULATION

J
JST JOIST
JT JOINT

L
LLH LONG LEG HORIZONTAL
LLV LONG LEG VERTICAL
LONG LONGITUDINAL
LP LOW POINT
LT LEFT

M
MAX MAXIMUM
MBC MICHIGAN BUILDING CODE
MECH MECHANICAL
MFR MANUFACTURER
MIN MINIMUM
MISC MISCELLANEOUS
MO MASONRY OPENING
MRC MICHIGAN RESIDENTIAL CODE

N
N NORTH
NA NOT APPLICABLE
NIC NOT IN CONTRACT
NO NUMBER
NOM NOMINAL
NTS NOT TO SCALE

O
OBC OHIO BUILDING CODE
OC ON CENTER
OH OVERHEAD

P
PCF POUNDS PER CUBIC FOOT
PL PLATE
PLMB PLUMBING
PLYWD PLYWOOD
PREFAB PREFABRICATED
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PT PRESSURE TREATED
PVC POLYVINYL CHLORIDE

ABBREVIATIONS (cont)

Q
QTY QUANTITY

R
REINF REINFORCE
REQD REQUIRED
REV REVISE/REVISION
RO ROUGH OPENING
RS ROUGH SAWN
RT RIGHT

S
SIM SIMILAR
SOG SLAB ON GRADE
SQ FT SQUARE FOOT/FEET
SQ IN SQUARE INCH/INCHES
STL STEEL

T
T&B TOP & BOTTOM
T&G TONGUE & GROOVE
TEMP TEMPERATURE/TEMPERED
TOB TOP OF BEAM
TOC TOP OF CONCRETE
TOM TOP OF MASONRY
TOS TOP OF STEEL
TOW TOP OF WALL
TYP TYPICAL

U
UNO UNLESS NOTED OTHERWISE

V
VERT VERTICAL
VIF VERIFY IN FIELD

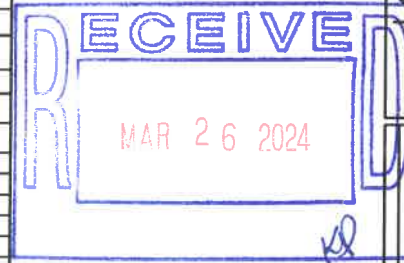
W
WD WOOD
WF WIDE FLANGE
WT WEIGHT
WWF WELDED WIRE FABRIC

Y
YD YARD

GENERAL STRUCTURAL NOTES

BUILDING LOADS	
LIVE LOADS	
1. UNIFORM PEDESTRIAN LIVE LOAD	100 PSF
DEAD LOADS	
1. MATERIAL DEAD LOAD	SELF WEIGHT
SNOW LOADS	
BALANCED SNOW	
1. GROUND SNOW LOAD, Pg	60 PSF
2. FLAT-ROOF SNOW LOAD, Pf	45.4 PSF
3. SNOW EXPOSURE FACTOR, Ce	0.90
4. RISK CATEGORY	II
5. SNOW LOAD IMPORTANCE FACTOR, Is	1.0
6. ROOF THERMAL FACTOR, Ct	1.20
WIND LOADS	
LOAD OR VARIABLE	
1. ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)	115 MPH
2. RISK CATEGORY	II
3. WIND EXPOSURE CATEGORY	D
4. INTERNAL PRESSURE COEFFICIENT (ENCLOSED BUILDING)	NA
5. MAIN WIND FORCE RESISTING SYSTEM (MAX ROOF UPLIFT AT OVERHANG)	NA
6. MAIN WIND FORCE RESISTING SYSTEM (MAX WALL)	NA
EARTHQUAKE DESIGN DATA	
LOAD VARIABLE	
1. RISK CATEGORY	II
2. SEISMIC IMPORTANCE FACTOR, Is	1.0
3. SEISMIC DESIGN CATEGORY	A
MISCELLANEOUS DESIGN DATA	
LOAD VARIABLE	
1. FLOOD LOAD	NONE
2. SPECIAL LOADS	NONE
3. SYSTEMS REQUIRING SPECIAL INSP FOR SEISMIC RESISTANCE	NONE
ASSUMED SOIL BEARING STRENGTH	NA

NOTES:
1. APPLICABLE CODE IS 2015 MICHIGAN BUILDING CODE
2. APPLICABLE TECHNICAL CODE IS ASCE/ SEI 7-10
3. WIND LOAD BASED ON ASCE 7-10
4. LOADS ARE BASED ON SECTION 16 OF MBC 2015 UNLESS OTHERWISE NOTED.



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03/26/2024
FOR CONSTRUCTION

DATE: 03/26/2024 PROJECT: SHEPLER'S MACKINAC ISLAND DOCK RAMP REVISIONS COUNTY: WASHTENAW SHEET: S-001

PRINT DRAWINGS IN COLOR

S-001

File No. C24014-017(H)
Exhibit F
Date 3-26-24
Initials KP

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GENERAL STRUCTURAL NOTES (cont)

GENERAL STRUCTURAL NOTES

1. THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS. SHOULD CONFLICTS OCCUR BETWEEN DOCUMENTS, THE STRICTEST PROVISION SHALL GOVERN.
2. THE CONTRACTOR SHALL LIMIT THE AMOUNT OF LOAD IMPOSED UPON THE STRUCTURAL FRAMING SYSTEM DURING CONSTRUCTION. LOADS, INCLUDING CONSTRUCTION LOADS, MUST NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED. THE CONTRACTOR SHALL INFORM THE ENGINEER OF POTENTIAL CONSTRUCTION LOADS DEEMED EXCESSIVE BY THE CONTRACTOR.
3. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED SELF SUPPORTING, STABLE STRUCTURE UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE, CONSTRUCTION SEQUENCE AND PROVIDE ALL MEASURES OR TEMPORARY BRACING NECESSARY TO ENSURE THE STABILITY AND SAFETY OF THE STRUCTURE AND ITS COMPONENTS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES AND GIN POLES, ETC.
4. ALL MATERIALS AND WORKMANSHIP SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE GOVERNING BUILDING CODE: MICHIGAN BUILDING CODE, CURRENT EDITION.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL RELEVANT DIMENSIONS AND ELEVATIONS AT THE SITE. REPORT ANY DISCREPANCIES FOUND TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
6. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DEVIATIONS FROM THE DRAWINGS. DO NOT CUT OR MODIFY STRUCTURAL MEMBERS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
7. DRAWINGS ARE INTENDED TO BE PRINTED PER THE SCALE PROVIDED. THE CONTRACTOR SHALL CONTACT THE ENGINEER IF ADDITIONAL DIMENSIONS ARE REQUIRED. DO NOT SCALE THE DRAWINGS.
8. CONTRACTOR SHALL NOT MIX GALVANIZED AND STAINLESS STEEL AT ANY TIME. ANY METAL PARTS IN CONTACT WITH OTHER METAL PARTS SHALL BE OF A SIMILAR METAL.
9. CONTRACTOR SHALL RECOGNIZE EFFECTS OF THERMAL MOVEMENTS AND MOISTURE CONTENT CHANGES OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD AND CONSIDER THESE EFFECTS DURING CONSTRUCTION AND/OR ERECTION SEQUENCES.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE AND FUNCTIONING SYSTEMS, INCLUDING BUT NOT LIMITED TO, PROVIDING (AT NO ADDITIONAL COST) ITEMS NOT SPECIFICALLY SHOWN IN THESE DRAWINGS WHICH ARE NORMALLY CONSIDERED NECESSARY.
11. COLUMNS/PILES ARE SHOWN SCHEMATICALLY ON THE FRAMING PLANS. SIZES ARE SPECIFIED IN THE NOTES OR SCHEDULES.

GENERAL STRUCTURAL NOTES (cont)

STRUCTURAL STEEL

1. COMPLY WITH CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES – THE LATEST APPLICABLE EDITION
2. STRUCTURAL STEEL PLATES, ANGLES, CHANNELS AND S-SHAPE MEMBERS: ASTM A36, Fy=36KSI.
3. ANCHOR RODS: ASTM F1554, GRADE 36.
4. STRUCTURAL STEEL WIDE FLANGE SECTIONS: ASTM A992, GRADE 50, Fy=50KSI.
5. HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B, Fy=46KSI.
6. STEEL PIPE: ASTM A53, GRADE B, Fy=35KSI.
7. HP PILES: ASTM A572 GRADE 50.
8. USE ASTM A325N, 3/4" DIA FOR ALL BOLTS IN STANDARD ROUND HOLES UNLESS NOTED OTHERWISE ON THE PLANS.
9. ALL BOLTED CONNECTIONS SHALL BE SNUG TIGHTENED BEARING TYPE N UNLESS OTHERWISE NOTED (FULL EFFORT ON SPUD WRENCH).
10. ALL STRUCTURAL STEEL MEMBERS AND ACCESSORIES UNLESS NOTED OTHERWISE, SHALL RECEIVE ONE SHOP PRIME COAT OF PROTECTIVE PAINT PRIOR TO DELIVERY TO JOBSITE. FINISH PAINT ALL STRUCTURAL STEEL AND CONNECTIONS, AFTER ERECTION AS SPECIFIED BY OWNER.
11. WHERE MEMBERS ARE NOTED TO BE GALVANIZED, PROVIDE HOT DIPPED GALVANIZING IN ACCORDANCE WITH ASTM A123. PROVIDE FIELD TOUCH-UP OF ABRADED OR DAMAGED GALVANIZED COATINGS WITH HIGH-ZINC-DUST-CONTENT PAINT WITH DRY FILM CONTAINING NOT LESS THAN 94% ZINC DUST BY WEIGHT COMPLYING WITH SSPC-PAINT 20.
12. DESIGN, CONSTRUCTION AND REMOVAL OF ALL TEMPORARY SUPPORTS AND BRACING (SEE AISC CODE OF STANDARD PRACTICE) IS THE RESPONSIBILITY OF THE STEEL ERECTORS.
13. WELDING SHALL BE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE – STEEL (AWS D1.1-CURRENT) PUBLISHED BY THE AMERICAN WELDING SOCIETY. PERFORM WELDING BY CERTIFIED WELDERS. USE E70XX ELECTRODE.
14. DO NOT USE STEEL FRAMING CONNECTIONS WHICH REQUIRE EITHER MEMBER TO BE COMPLETELY DISCONNECTED (NUTS REMOVED FROM BOLTS) FOR INSTALLATION OF THE SUCCEEDING MEMBER.

GENERAL STRUCTURAL NOTES (cont)



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REVISIONS FOR CONSTRUCTION 08/07/2023

DATE: 08/07/23 PROJECT: SHEPLER'S MACKINAC ISLAND FERRY SHEPLER'S MACKINAC ISLAND DOCK RAMP REVISIONS CITY/TOWNSHIP: SHEPLER COUNTY: MICHIGAN STATE: MI JOB NO: 23-002

SHEPLER'S MACKINAC ISLAND FERRY
SHEPLER'S MACKINAC ISLAND DOCK RAMP REVISIONS
STRUCTURAL NOTES

PRINT DRAWINGS IN COLOR

S-002

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BEAM SCHEDULE		
MARK	SIZE	REMARKS
B1	W10x33	--
B2	W12x65	--
B3	W6x15	CAN BE SINGLE OR MULTI-SPAN CONTINUOUS, UNLESS NOTED OTHERWISE
B4	W10x22	--
B5	W6x20	--
B6	C5x9	CAN BE SINGLE OR MULTI-SPAN CONTINUOUS, UNLESS NOTED OTHERWISE
B7	HSS 12x8x1/4	--
B8	W10x15	CAN BE SINGLE OR MULTI-SPAN CONTINUOUS, UNLESS NOTED OTHERWISE WITH STIFFENERS OVER SUPPORTING BEAM C_s , TYP

1. NOT ALL BEAM SIZES USED ON THIS SHEET

▶ = MOMENT CONNECTION

GENERAL SHEET NOTES

1. CONTRACTOR RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING PILE LAYOUT PRIOR TO CONSTRUCTION.
2. SOME OF THE EXISTING FRAMING NOT SHOWN FOR CLARITY. MEMBERS SHOW WITH A GRAY/BLACK LINE ARE EXISTING. MEMBERS SHOWN IN RED ARE NEW OR MODIFIED EXISTING MEMBERS.

SHEET KEYNOTES

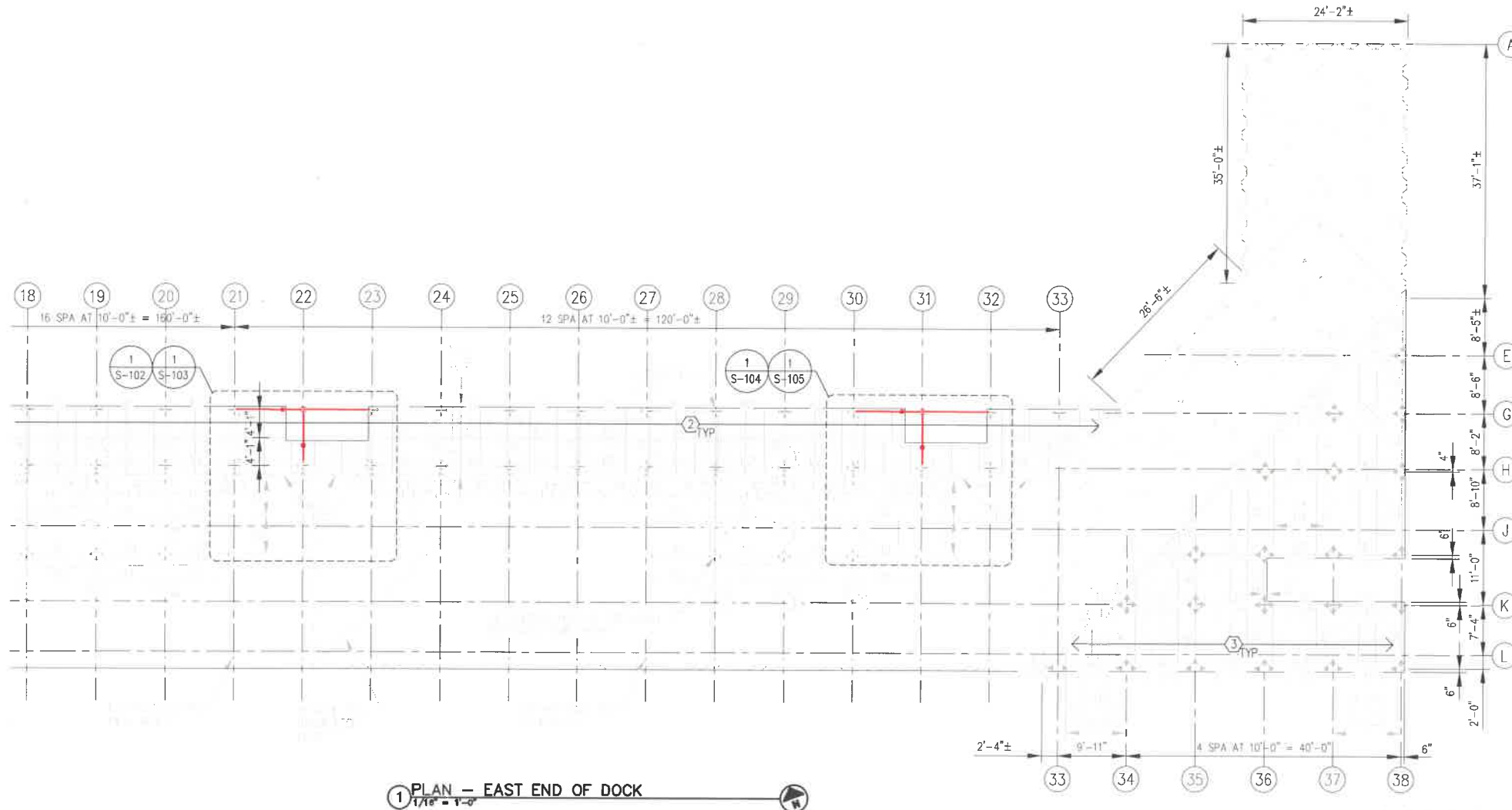
1. 4x12 S4S WOOD PLANK WEARING SURFACE TO MATCH EXISTING.
2. 4x6 S4S JOIST AT 16".
3. EX OHIO GRATINGS, INC HEAVY DUTY WELDED STEEL 19-W-4 GRATING WITH 1 1/2"x1/4" RECTANGULAR BEARING BARS AT 1 3/16" SPACING WITH CROSS BARS AT 4" SPACING WITH 1 1/2"x1/4" BANDING BARS AT ENDS AND DIAGONAL CUTS OF THE GRADING PANELS. PROVIDE SLIPNOT GRADE 3 FINISH (BY W.S. MOLNAR DETROIT, MI) APPLIED TO THE TOP SURFACE OF THE GRADING PANELS. HOT DIP GALVANIZED PANELS AFTER APPLYING SLIPNOT FINISH.



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1 PLAN - EAST END OF DOCK
1/16" = 1'-0"

PRINT DRAWINGS IN COLOR

REVISIONS
FOR CONSTRUCTION

DATE PROJECT NUMBER DWG NO. PRODUCE DATE CADDY CADDY NAME
SHEPLER'S MACKINAC ISLAND FERRY
SHEPLER'S MACKINAC ISLAND DOCK RAMP REVISIONS
PLAN - EAST END OF DOCK

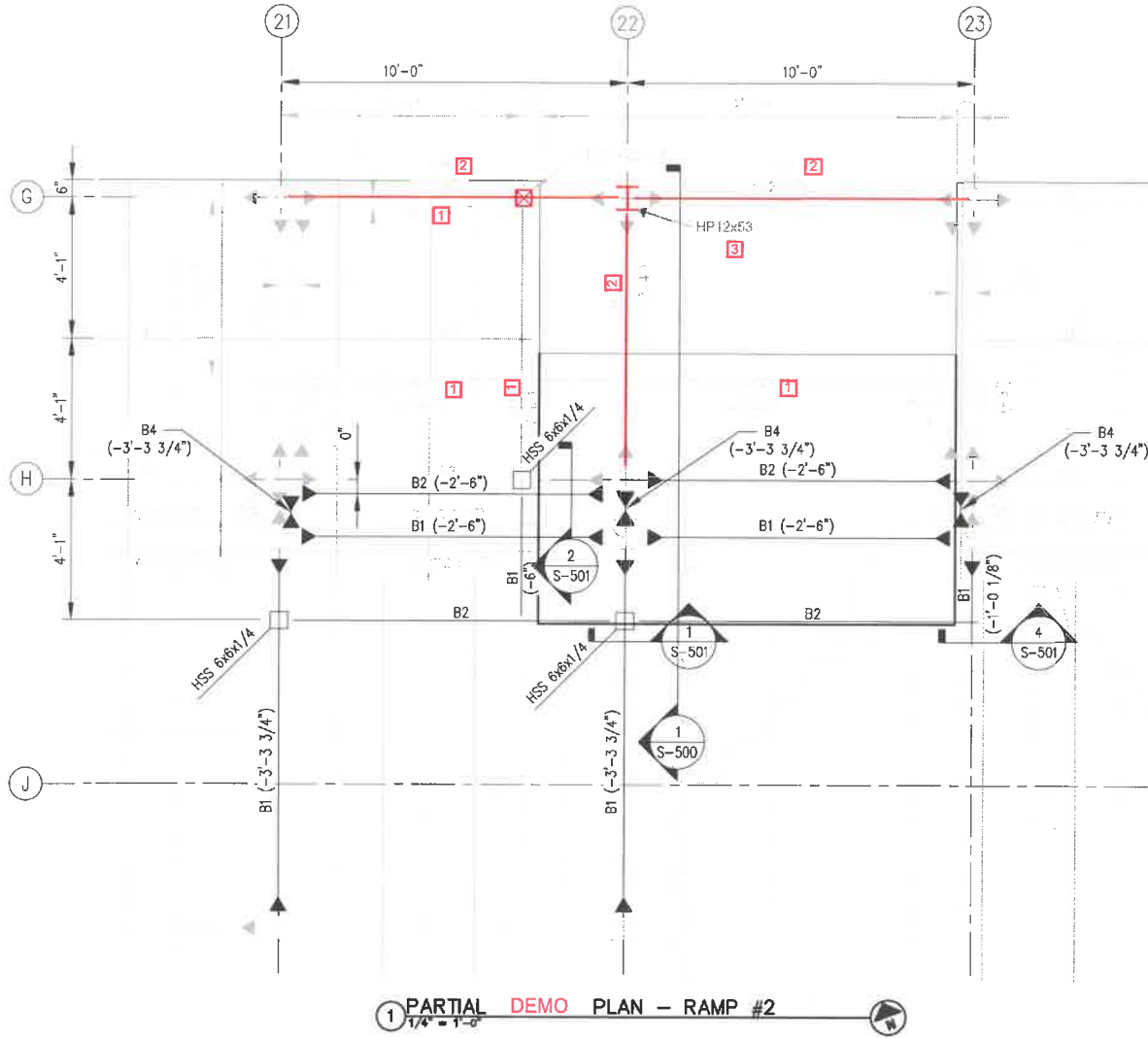
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BEAM SCHEDULE		
MARK	SIZE	REMARKS
B1	W10x33	-
B2	W12x65	-
B3	W6x15	CAN BE SINGLE OR MULTI-SPAN CONTINUOUS, UNLESS NOTED OTHERWISE
B4	W10x22	-
B5	W6x20	-
B6	C5x9	CAN BE SINGLE OR MULTI-SPAN CONTINUOUS, UNLESS NOTED OTHERWISE
B7	HSS 12x8x1/4	-
B8	W10x15	CAN BE SINGLE OR MULTI-SPAN CONTINUOUS, UNLESS NOTED OTHERWISE WITH STIFFENERS OVER SUPPORTING BEAM ϕ_s , TYP.

1. NOT ALL BEAM SIZES USED ON THIS SHEET

▶ = MOMENT CONNECTION



1 PARTIAL DEMO PLAN - RAMP #2
1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING PILE LAYOUT PRIOR TO CONSTRUCTION.
2. SOME OF THE EXISTING FRAMING NOT SHOWN FOR CLARITY. MEMBERS SHOWN WITH A GRAY/BLACK LINE ARE EXISTING. MEMBERS SHOWN WITH A RED LINE ARE NEW/MODIFIED.

KEYNOTES

- 1 SHORE EXISTING BEAM AS REQUIRED.
- 2 REMOVE EXISTING BEAM/COL AND SALVAGE FOR REUSE (OR PROVIDE NEW BEAM/COL OF SAME SIZE).
- 3 REMOVE TOP PORTION OF EXISTING PILE. SEE DETAILS.

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FOR CONSTRUCTION

DATE: 10/20/2024
PROJECT: SHEPLER'S MACKINAC ISLAND FERRY
SHEET: SHEPLER'S MACKINAC ISLAND DOCK RAMP REVISIONS
PARTIAL FRAMING PLAN - RAMP #2

PRINT DRAWINGS IN COLOR

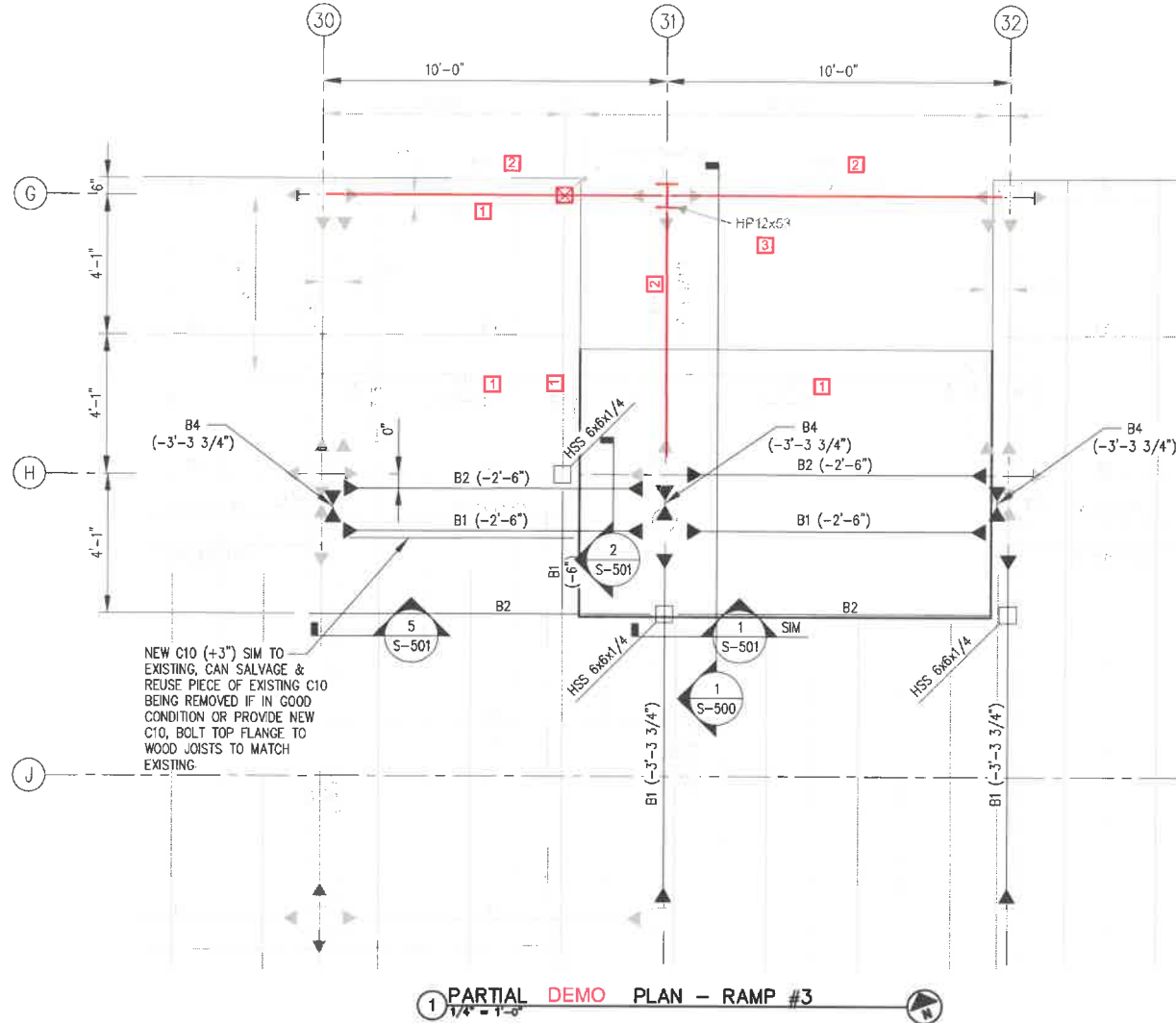
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BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	W10x33	-
B2	W12x65	-
B3	W6x15	CAN BE SINGLE OR MULTI-SPAN CONTINUOUS, UNLESS NOTED OTHERWISE
B4	W10x22	-
B5	W6x20	-
B6	C5x9	CAN BE SINGLE OR MULTI-SPAN CONTINUOUS, UNLESS NOTED OTHERWISE
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B8	W10x15	CAN BE SINGLE OR MULTI-SPAN CONTINUOUS, UNLESS NOTED OTHERWISE WITH STIFFENERS OVER SUPPORTING BEAM ϕ s, TYP.

1. NOT ALL BEAM SIZES USED ON THIS SHEET

▶ = MOMENT CONNECTION



GENERAL SHEET NOTES

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KEYNOTES

- SHORE EXISTING BEAM AS REQUIRED.
- REMOVE EXISTING BEAM/COL AND SALVAGE FOR REUSE (OR PROVIDE NEW BEAM/COL OF SAME SIZE).
- REMOVE TOP PORTION OF EXISTING PILE. SEE DETAILS.



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03/20/2023

REVISIONS FOR CONSTRUCTION

DATE: 03/20/23
DRAWN BY: JZ
CHECKED BY: JZ
DESIGNED BY: JZ
PROJECT: SHEPLER'S MACKINAC ISLAND FERRY
SHEET: S-104

SHEPLER'S MACKINAC ISLAND FERRY
SHEPLER'S MACKINAC ISLAND DOCK RAMP REVISIONS
PARTIAL FRAMING PLAN - RAMP #3

PRINT DRAWINGS IN COLOR

S-104

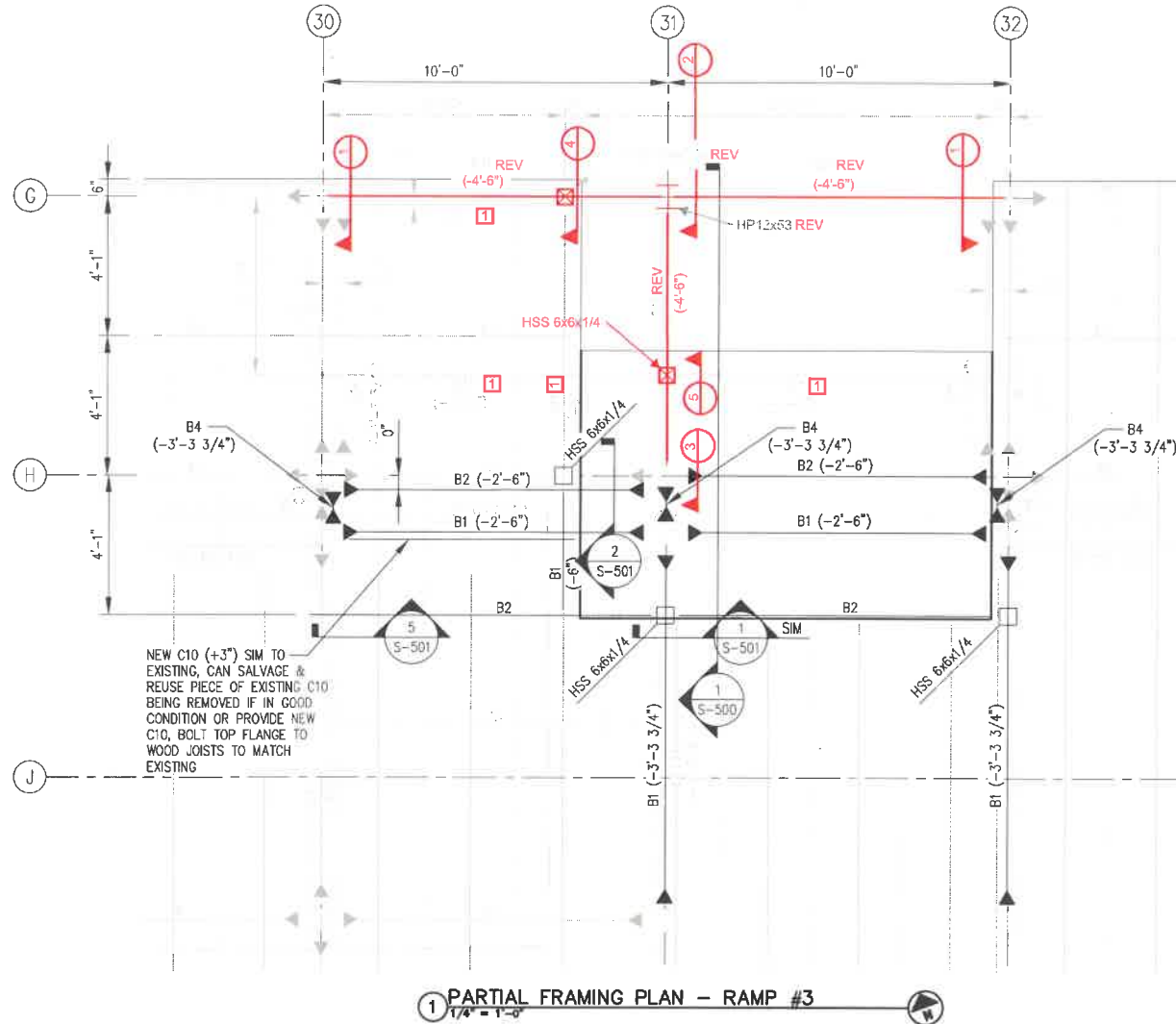
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BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	W10x33	-
B2	W12x65	-
B3	W6x15	CAN BE SINGLE OR MULTI-SPAN CONTINUOUS, UNLESS NOTED OTHERWISE
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B7	HSS 12x8x1/4	-
B8	W10x15	CAN BE SINGLE OR MULTI-SPAN CONTINUOUS, UNLESS NOTED OTHERWISE WITH STIFFENERS OVER SUPPORTING BEAM @s, TYP.

1. NOT ALL BEAM SIZES USED ON THIS SHEET

▶ = MOMENT CONNECTION



1 PARTIAL FRAMING PLAN - RAMP #3
1/4" = 1'-0"

GENERAL SHEET NOTES

- CONTRACTOR RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING PILE LAYOUT PRIOR TO CONSTRUCTION.
- SOME OF THE EXISTING FRAMING NOT SHOWN FOR CLARITY. MEMBERS SHOWN WITH A GRAY/BLACK LINE ARE EXISTING. MEMBERS SHOWN WITH A RED LINE ARE NEW/MODIFIED.

KEYNOTES

- SHORE EXISTING BEAM AS REQUIRED.



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DATE: 03/07/23

REVISIONS FOR CONSTRUCTION

DATE: 03/07/23
 PROJECT: SHEPLER'S MACKINAC ISLAND FERRY
 COUNTY: OSHTON
 SHEPLER'S MACKINAC ISLAND DOCK RAMP REVISIONS
 PARTIAL FRAMING PLAN - RAMP #3

SHEET: S-105



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