

NOTES

- 1) THIS SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS AND/OR MAPS PREPARED BY OTHERS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATION INDICATED. THEREFORE, RELIANCE UPON THE TYPE, SIZE AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY. IN TENNESSEE, IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNER, NO LESS THAN THREE (3) NOR MORE THAN TEN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR INTENT TO EXCAVATE AND ALSO TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. TENNESSEE ONE CALL 1-800-351-1111.
- 2) ALL DISTANCES WERE MEASURED WITH E.D.M. EQUIPMENT AND HAVE BEEN ADJUSTED FOR TEMPERATURE.

WE HEREBY CERTIFY THAT THIS SURVEY AND THE INFORMATION SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

CHERRY LAND SURVEYING, INC.
622 WEST IRIS DRIVE
NASHVILLE, TENNESSEE 37204
(615)269-3972 FAX:(615)269-9345
E-MAIL: cherryls@comcast.net

MICHAEL H. CHARETTE R.L.S. # 2048

APPROXIMATELY 617 LINEAR FEET
FROM OTTER CREEK ROAD TO
CONNECTION TO EXISTING LAKE TRAIL

BM-PK NAIL ON BRIDGE
EL.=100.00
(ASSUMED)

LEGEND

BENCHMARK ———→ +
TREE ———→ ⊙
CONTOUR LINE ——— 650 ———

TREE TABLE			TREE TABLE		
NO.	SIZE	TYPE	NO.	SIZE	TYPE
1	5"	ASH	76	18"	ASH
2	10"	ASH	77	9"	ASH
3	10"	HACKBERRY	78	15"	ELM
4	8"	HACKBERRY	79	18"	ELM
5	12"	ASH	80	9"	HACKBERRY
6	15"	OAK	81	8"	HACKBERRY
7	15"	OAK	82	10"	ASH
8	18"	OAK	83	6"	ELM
9	8"	OAK	84	15"	ELM
10	8"	OAK	85	5"	ASH
11	9"	OAK	86	8"	ELM
12	6"	OAK	87	12"	TREE
13	6"	OAK	88	9"	ASH
14	12"	ASH	89	16"	BODOCK
15	12"	ASH	90	16"	HACKBERRY
16	6"	ASH	91	12"	ASH
17	33"	OAK	92	5"	ASH
18	10"	OAK	93	12"	ASH
19	30"	ASH	94	12"	ELM
20	12"	MAPLE	95	12"	OAK
21	12"	OAK	96	5"	HACKBERRY
22	18"	ASH	97	6"	HACKBERRY
23	10"	ASH	98	15"	HACKBERRY
24	12"	ASH	99	6"	ASH
25	9"	ASH	100	10"	OAK
26	8"	ASH	101	18"	HACKBERRY
27	6"	ELM	102	9"	OAK
28		HACKBERRY			
29		TREE			
30	12"	OAK			
31	6"	ASH			
32	15"	ASH			
33	15"	ASH			
34	10"	OAK			
35	18"	ASH			
36	9"	OAK			
37	12"	OAK			
38	12"	OAK			
39		ASH			
40	15"	HACKBERRY			
41	12"	HACKBERRY			
42	12"	HACKBERRY			
43	8"	ELM			
44	6"	ELM			
45	6"	ELM			
46	15"	ASH			
47	12"	ELM			
48	8"	HACKBERRY			
49	5"	ELM			
50	6"	ELM			
51	12"	HACKBERRY			
52	12"	CHERRY			
53	6"	HACKBERRY			
54	6"	LOCUST			
55	10"	ELM			
56	8"	ASH			
57	24"	HACKBERRY			
58	8"	HACKBERRY			
59	12"	ELM			
60	18"	ELM			
61	6"	HACKBERRY			
62	8"	HACKBERRY			
63	21"	HACKBERRY			
64	12"	OAK			
65	12"	WALNUT			
66	5"	ASH			
67	8"	ELM			
68	12"	ELM			
69	8"	ELM			
70	8"	HACKBERRY			
71	8"	ELM			
72	6"	ASH			
73	15"	ASH			
74	8"	ELM			
75	15"	HACKBERRY			
76	9"	HACKBERRY			
77	9"	OAK			
78	9"	HACKBERRY			
79	9"	HACKBERRY			
80	5"	HACKBERRY			
81	12"	HACKBERRY			
82	15"	HACKBERRY			
83	8"	ELM			
84	12"	HACKBERRY			
85	6"	HACKBERRY			
86	12"	HACKBERRY			
87	12"	HACKBERRY			
88	18"	ELM			
89	8"	HACKBERRY			
90	10"	ELM			
91	15"	HACKBERRY			
92	6"	HACKBERRY			
93	6"	OAK			
94	12"	HACKBERRY			
95	10"	HACKBERRY			
96	6"	BOX-ELDER			
97	9"	BOX-ELDER			
98	10"	BOX-ELDER			
99	9"	BOX-ELDER			
100	15"	BOX-ELDER			
101	12"	HACKBERRY			
102	9"	TREE			
103	6"	HACKBERRY			
104	21"	ASH			
105	12"	HACKBERRY			
106	5"	HACKBERRY			
107	6"	BOX-ELDER			
108	9"	HACKBERRY			
109	12"	LOCUST			
110	5"	TREE			
111	24"	POPLAR			
112	24"	POPLAR			
113	5"	BOX-ELDER			
114	8"	BODOCK			

PARTIAL TOPOGRAPHIC SURVEY
OF
RADNOR LAKE
FOR

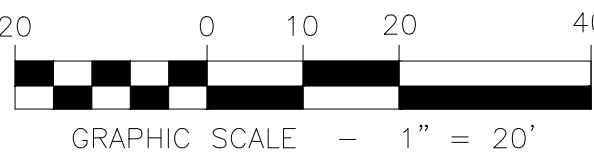
EAST SIDE BRIDGE REPLACEMENT

NASHVILLE, DAVIDSON COUNTY, TENNESSEE

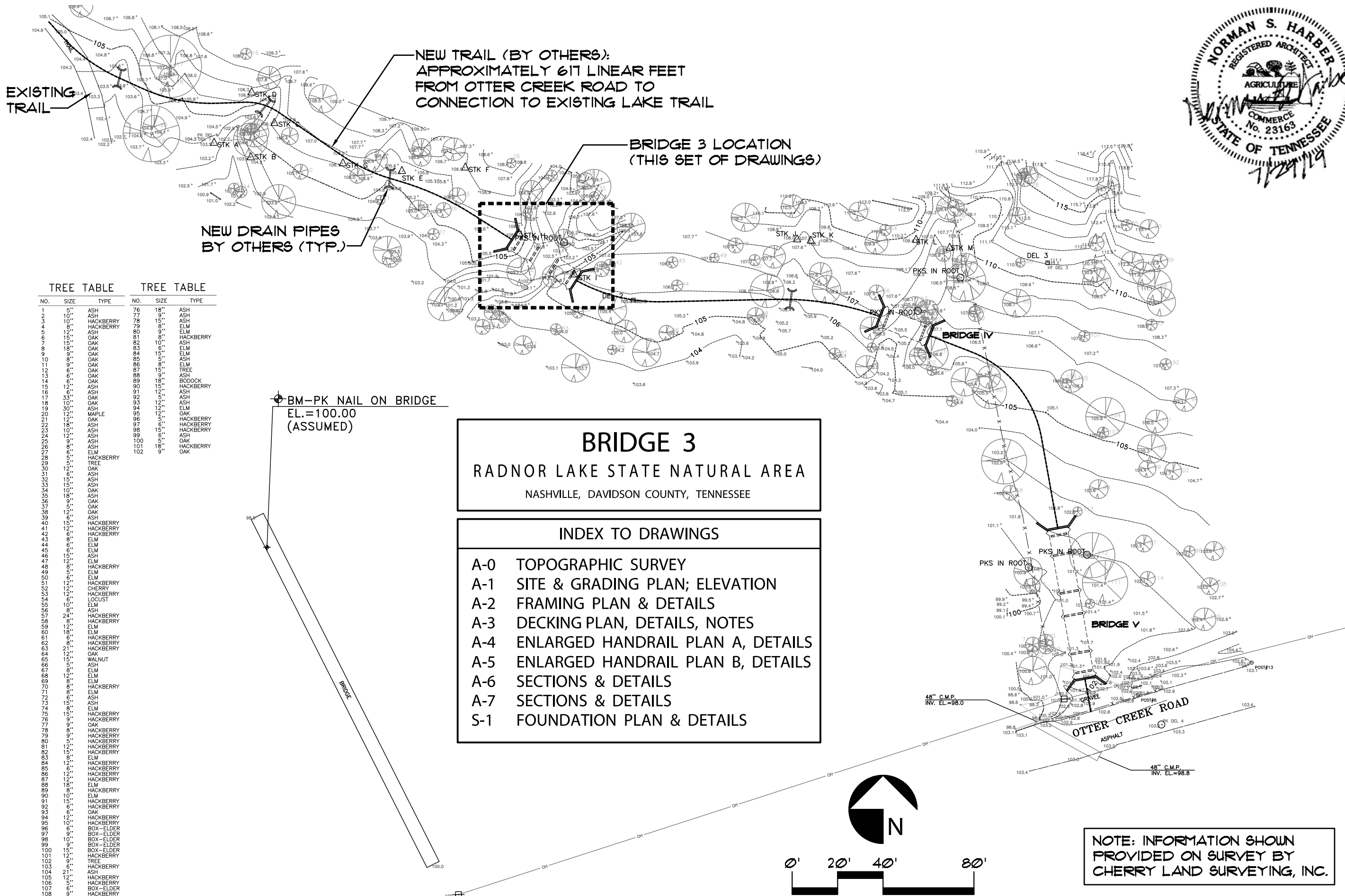
SCALE: 1" = 20' - DATE: MAY 8, 2017

REVISED DATE: JUNE 6, 2017-ADDED ADDITIONAL SURVEY

REVISED DATE: MARCH 6, 2018-ADDED ADDITIONAL SURVEY



JOB# 17069 MHC



TREE TABLE

NO.	SIZE	TYPE
1	5"	ASH
2	10"	ASH
3	10"	HACKBERRY
4	10"	HACKBERRY
5	10"	HACKBERRY
6	15"	OAK
7	15"	OAK
8	18"	OAK
9	9"	OAK
10	8"	OAK
11	6"	OAK
12	6"	OAK
13	6"	OAK
14	6"	OAK
15	12"	ASH
16	12"	ASH
17	3"	OAK
18	10"	OAK
19	30"	ASH
20	12"	MAPLE
21	12"	OAK
22	18"	ASH
23	10"	ASH
24	12"	ASH
25	9"	ASH
26	8"	ASH
27	6"	ELM
28	6"	HACKBERRY
29	12"	TREE
30	12"	OAK
31	12"	ASH
32	12"	ASH
33	12"	ASH
34	10"	OAK
35	18"	ASH
36	12"	OAK
37	12"	OAK
38	12"	OAK
39	12"	ASH
40	12"	HACKBERRY
41	12"	HACKBERRY
42	12"	HACKBERRY
43	6"	ELM
44	6"	ELM
45	12"	ASH
46	12"	ELM
47	12"	HACKBERRY
48	12"	ELM
49	12"	ELM
50	12"	ELM
51	12"	HACKBERRY
52	12"	CHERRY
53	12"	HACKBERRY
54	6"	LOCUST
55	10"	ELM
56	8"	ASH
57	24"	HACKBERRY
58	18"	HACKBERRY
59	12"	ELM
60	18"	ELM
61	6"	HACKBERRY
62	8"	HACKBERRY
63	21"	HACKBERRY
64	12"	OAK
65	12"	WALNUT
66	12"	ASH
67	12"	ELM
68	12"	ELM
69	12"	ELM
70	8"	HACKBERRY
71	8"	ELM
72	8"	ASH
73	15"	ASH
74	18"	ELM
75	15"	HACKBERRY
76	9"	HACKBERRY
77	9"	OAK
78	9"	HACKBERRY
79	9"	HACKBERRY
80	12"	HACKBERRY
81	12"	HACKBERRY
82	12"	HACKBERRY
83	12"	ELM
84	12"	HACKBERRY
85	12"	HACKBERRY
86	12"	HACKBERRY
87	12"	HACKBERRY
88	12"	ELM
89	8"	HACKBERRY
90	10"	ELM
91	15"	HACKBERRY
92	6"	HACKBERRY
93	6"	OAK
94	12"	HACKBERRY
95	10"	HACKBERRY
96	6"	BOX-ELDER
97	9"	BOX-ELDER
98	10"	BOX-ELDER
99	9"	BOX-ELDER
100	12"	BOX-ELDER
101	12"	HACKBERRY
102	9"	TREE
103	6"	HACKBERRY
104	21"	ASH
105	12"	HACKBERRY
106	12"	HACKBERRY
107	6"	BOX-ELDER
108	9"	HACKBERRY
109	12"	LOCUST
110	5"	TREE
111	24"	POPLAR
112	24"	POPLAR
113	24"	BOX-ELDER
114	9"	BODOCK

TREE TABLE

NO.	SIZE	TYPE
76	18"	ASH
77	9"	ASH
78	15"	ASH
79	8"	ELM
80	8"	ELM
81	8"	HACKBERRY
82	10"	ASH
83	6"	ELM
84	15"	ELM
85	8"	ELM
86	8"	ELM
87	15"	TREE
88	9"	ASH
89	18"	BODOCK
90	15"	HACKBERRY
91	12"	ASH
92	5"	ASH
93	12"	ASH
94	12"	ELM
95	12"	OAK
96	5"	HACKBERRY
97	6"	HACKBERRY
98	15"	HACKBERRY
99	6"	ASH
100	5"	OAK
101	18"	HACKBERRY
102	9"	OAK

BRIDGE 3
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

INDEX TO DRAWINGS

- A-0 TOPOGRAPHIC SURVEY
- A-1 SITE & GRADING PLAN; ELEVATION
- A-2 FRAMING PLAN & DETAILS
- A-3 DECKING PLAN, DETAILS, NOTES
- A-4 ENLARGED HANDRAIL PLAN A, DETAILS
- A-5 ENLARGED HANDRAIL PLAN B, DETAILS
- A-6 SECTIONS & DETAILS
- A-7 SECTIONS & DETAILS
- S-1 FOUNDATION PLAN & DETAILS



TOPOGRAPHIC SURVEY



NOTE: INFORMATION SHOWN
PROVIDED ON SURVEY BY
CHERRY LAND SURVEYING, INC.

Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone : 615 - 497 - 5043 Email : normharber@gmail.com

ISSUE DATE:
5 / 4 / 18

REVISIONS:
7 / 29 / 19

LAKE TRAIL BRIDGE 3
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

SHEET NUMBER
A-0



GENERAL NOTES

Fastener Requirements:

All specified bolts, washers, nuts, steel angles, and steel plates shall be hot dipped galvanized. Washers shall be used at every interface with wood members except at the head of carriage bolts.

All connections for wood members shall be made with bolts or screws except 1 x 6 perimeter trim may be nailed with 8d galvanized ring shank nails. Appropriate length galvanized nails may be used in concealed locations as necessary to "set" members in place prior to making the permanent connection.

Concealed screws used in the floor framing system and subfloor shall be either stainless steel or Grip Rite (or equal) PrimeGuard Plus Green screws. Exposed screws on face of bridge, handrails and benches shall be Headcoat stainless steel trim head screws with Brown #34 colored heads (or approved equal). Length of the screw shall be appropriate for the application.

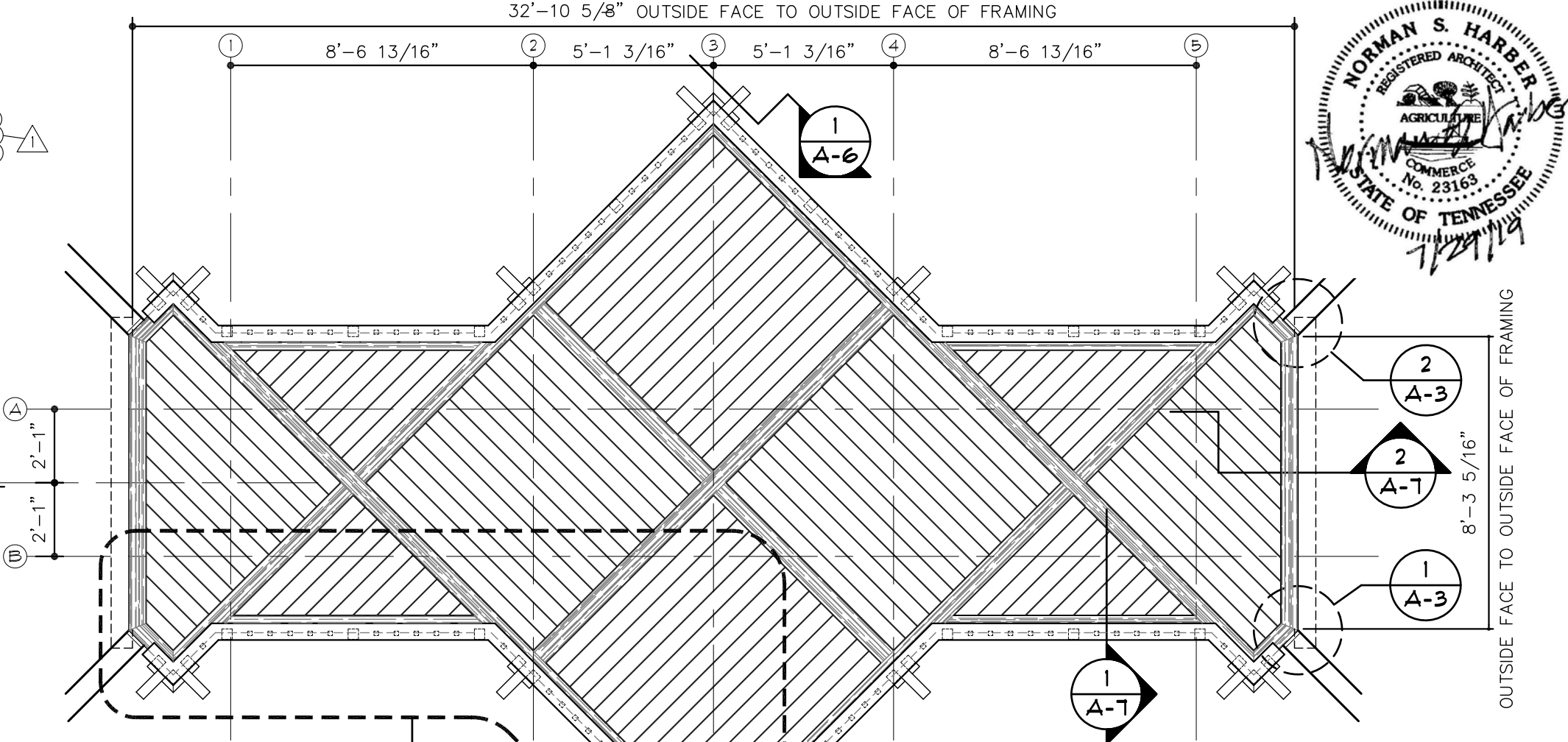
Retaining wall timbers shall be secured with seven inch long Headlok (or equal) flathead fasteners.

Stain Requirements:

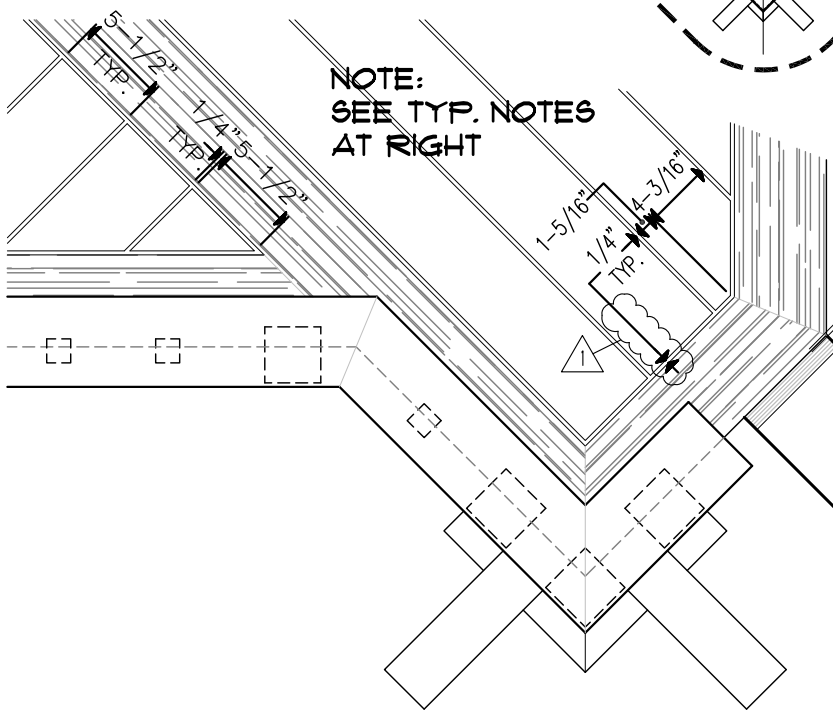
All wood, including floor framing, shall be stained with PPG Flood Semi-Transparent Alkyd/Oil Stain (FLD802). Color formula is: B-2Y+12:C-44:F-1Y+6. "Cut" ends of wood members shall be stained prior to installation.

LUMBER SCHEDULE							
NOMINAL SIZE	ACTUAL SIZE	SQUARE EDGE	1/8" RAD. EDGE	3/16" RAD. EDGE	FINISH DRESSED	ROUGH-SAWN	LOCATION
4x12	3-1/2" x 11-1/4"		●		●		
4x4	3-1/2" x 3-1/2"		●		●		
2x12	1-1/2" x 11-1/4"	●			●		
2X10	1-1/2" x 9-1/4"	●			●		
2x8	1-1/2" x 7-1/4"	●			●		
2x6	1-1/2" x 5-1/2"	●			●		
2x5	1-1/2" x 5"	●			●		SUBFLOOR
2x4	1-1/2" x 3-1/2"	●			●		
2x4	1-1/2" x 3-1/2"		●		●		HANDRAILS
2x2	1-1/2" x 1-1/2"		●		●		
1x6	7/8" x 5-3/4"			●	●		FLR. DECK/HANDRAILS
1x8	3/4" x 7-1/4"	●			●		POST CAPS
1x6	3/4" x 5-1/2"	●			●		PERIMETER TRIM
4x8	4" x 8"	●				●	RETAINING WALLS

NOTE: ALL LUMBER TO BE NO. 2 SOUTHERN YELLOW PINE (OR BETTER), PRESSURE-TREATED TO .60 PCF (OR BETTER)

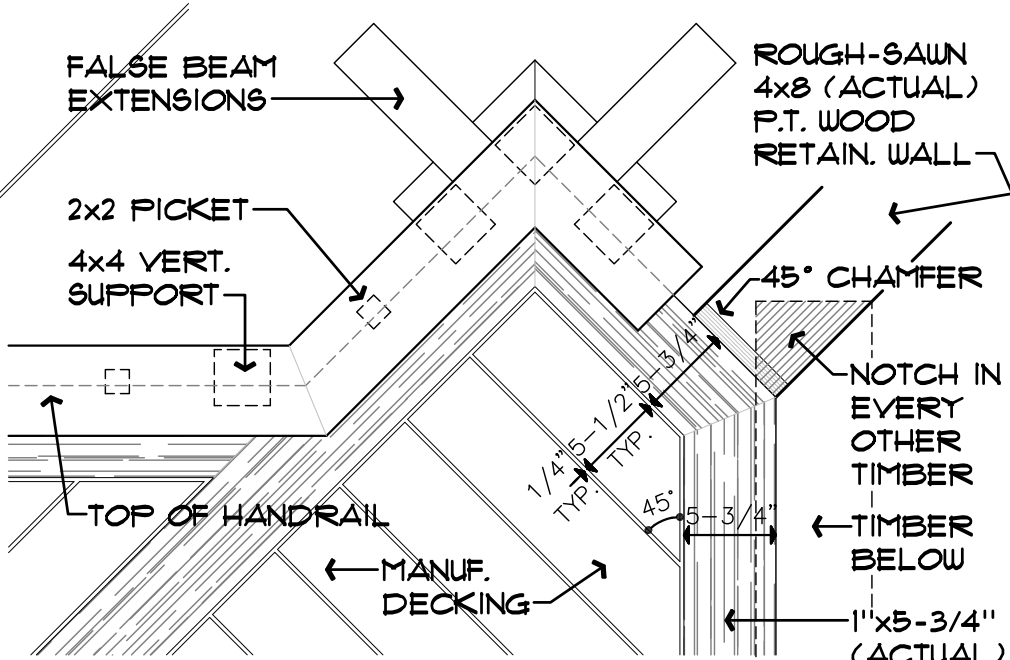


BRIDGE 3-DECKING PLAN



DETAIL 1

SCALE : 1" = 1'-0"



DETAIL 2

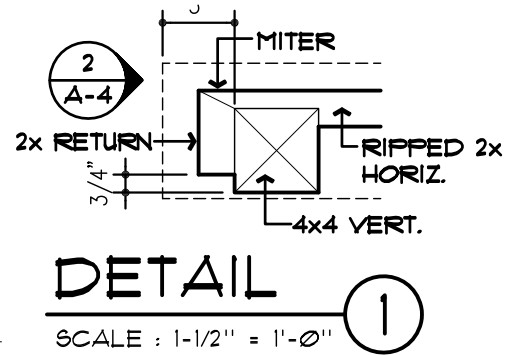
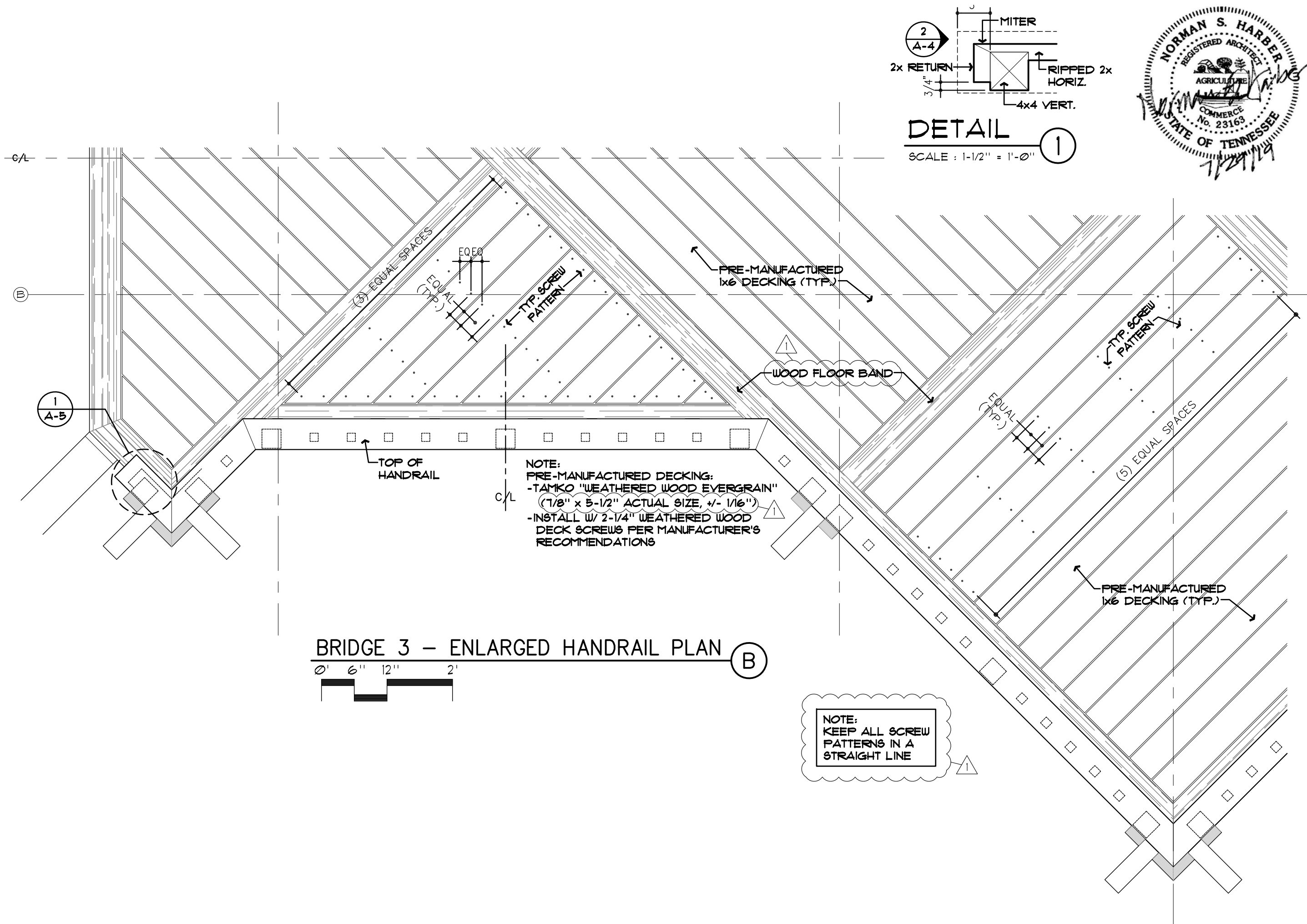
SCALE : 1" = 1'-0"



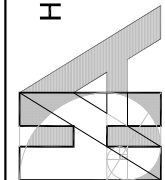
Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone: 615-497-5043 Email: normharber@gmail.com

LAKE TRAIL BRIDGE 3
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

SHEET NUMBER
A-3



Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone: 615-497-5043 Email: normharber@gmail.com



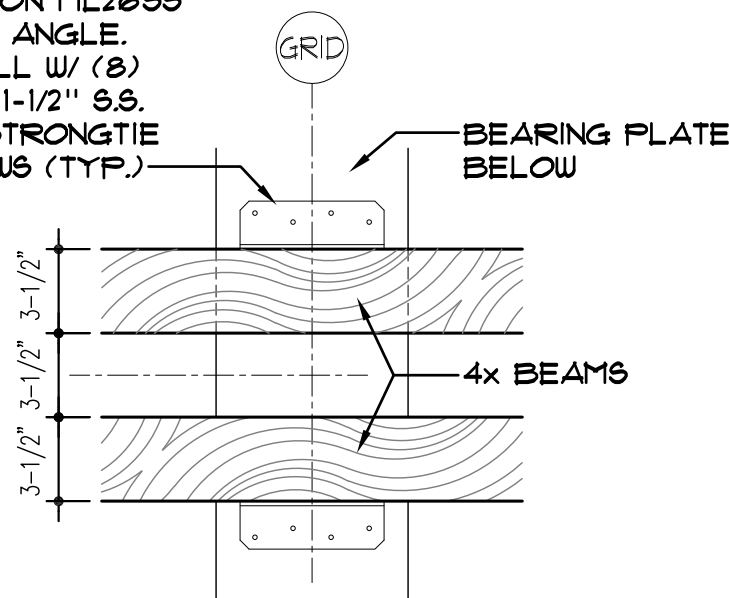
ISSUE DATE:
5/4/18

REVISIONS:
7/29/19

LAKE TRAIL BRIDGE 3
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

SHEET NUMBER
A-5

SIMPSON ML26SS
REINF. ANGLE.
INSTALL W/ (8)
1/4" x 1-1/2" S.S.
SDS STRONGTIE
SCREWS (TYP.)



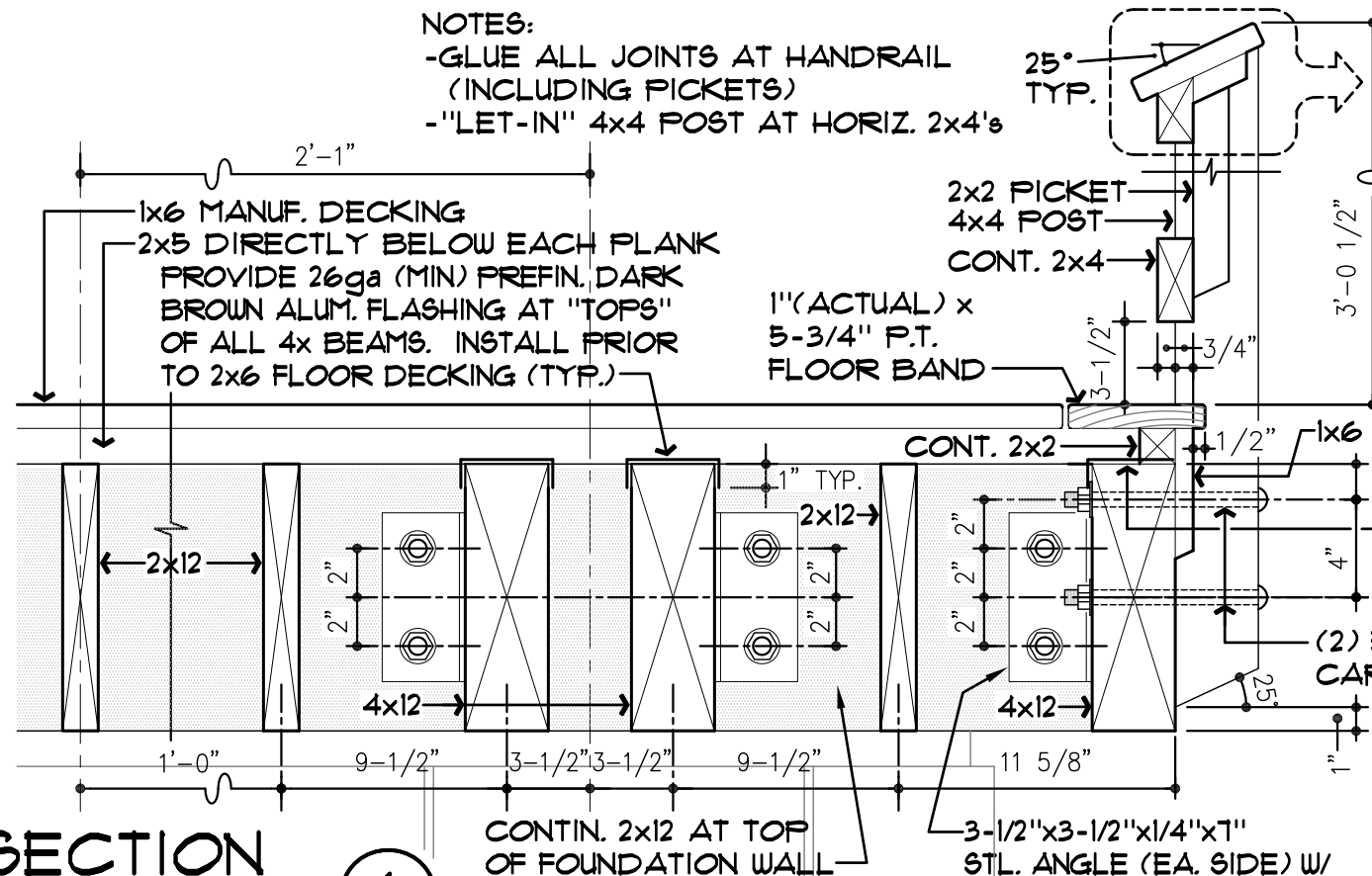
DETAIL

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

3

NOTES:

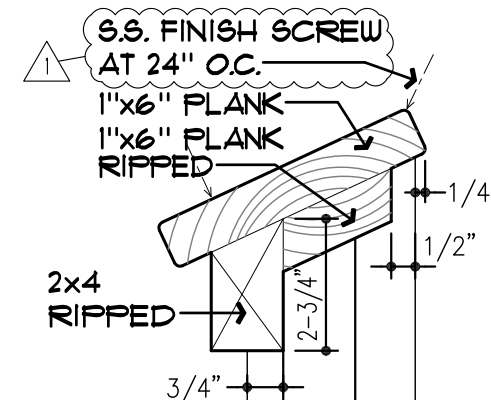
- GLUE ALL JOINTS AT HANDRAIL (INCLUDING PICKETS)
- "LET-IN" 4x4 POST AT HORIZ. 2x4's



SECTION

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

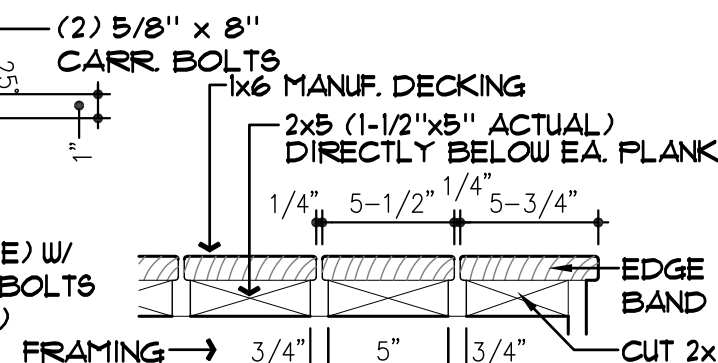
1



DETAIL

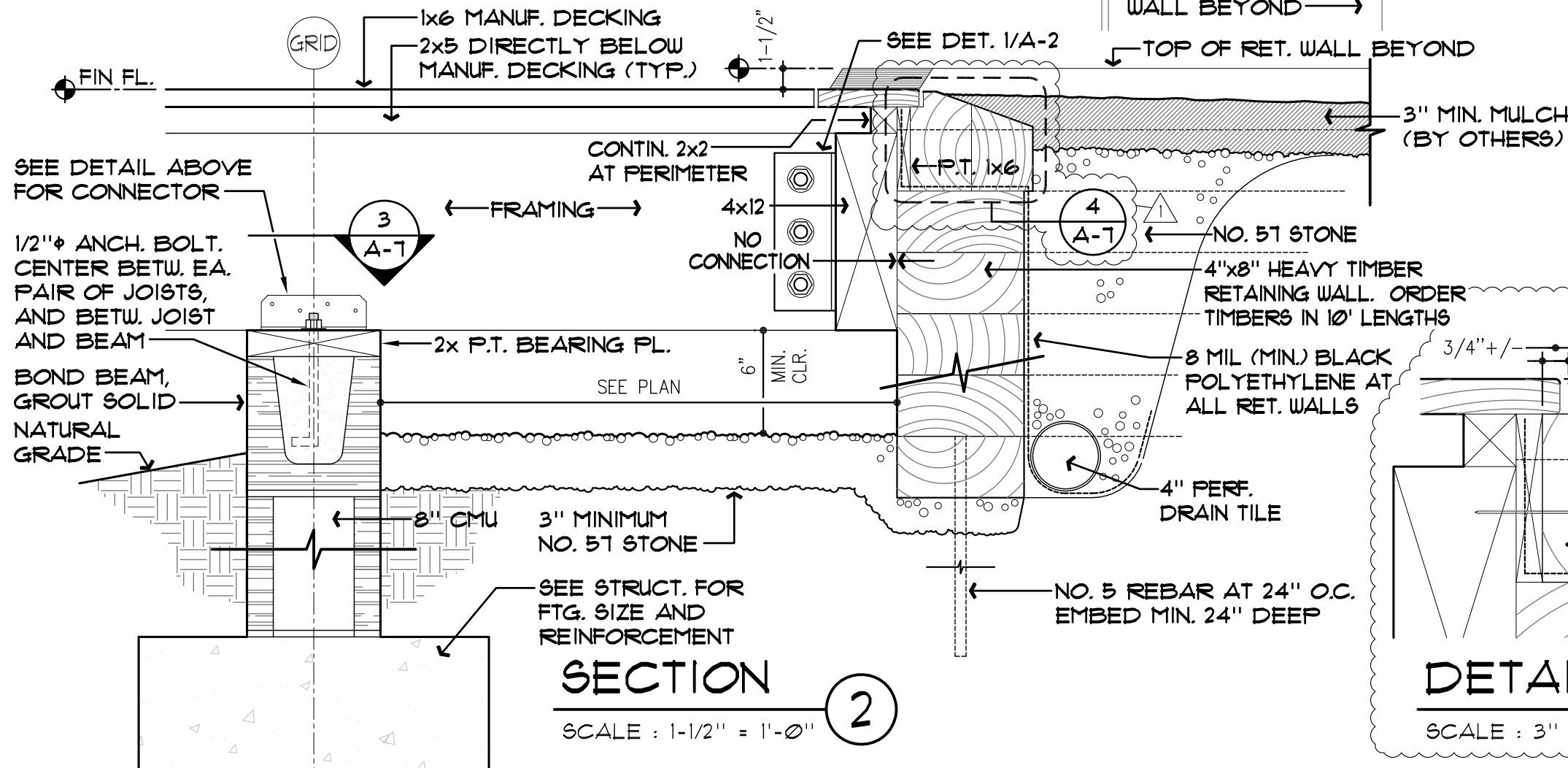
SCALE : 3" = 1'-0"

SET ALL "L"-SHAPED
FLASHING IN SILICONE
SEALANT



TYP. FLOOR

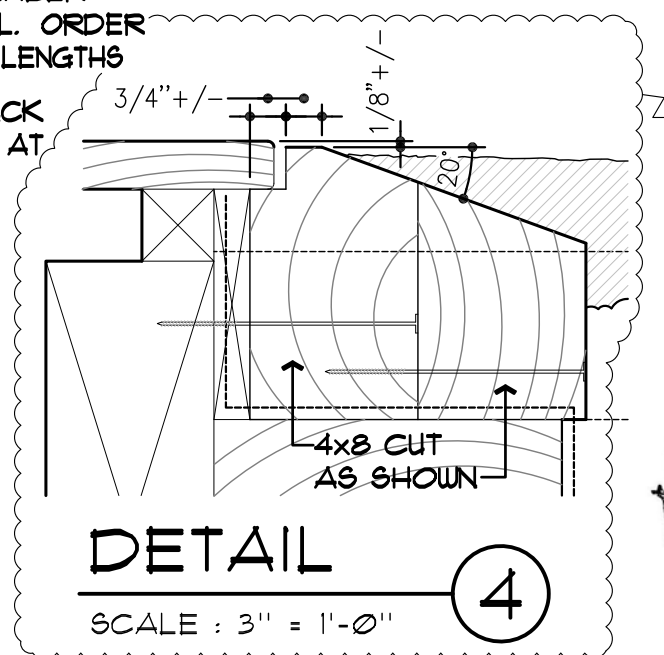
SCALE : 1-1/2" = 1'-0"



SECTION

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

2



DETAIL

SCALE : 3" = 1'-0"

4



Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone: 615-497-5043 Email: normharber@gmail.com

ISSUE DATE:
5/4/18

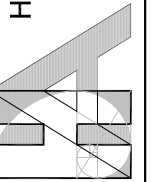
REVISIONS:
7/29/19

LAKE TRAIL BRIDGE 3
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

SHEET NUMBER
A-7



Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone: 615-497-5043 Email: normharber@gmail.com

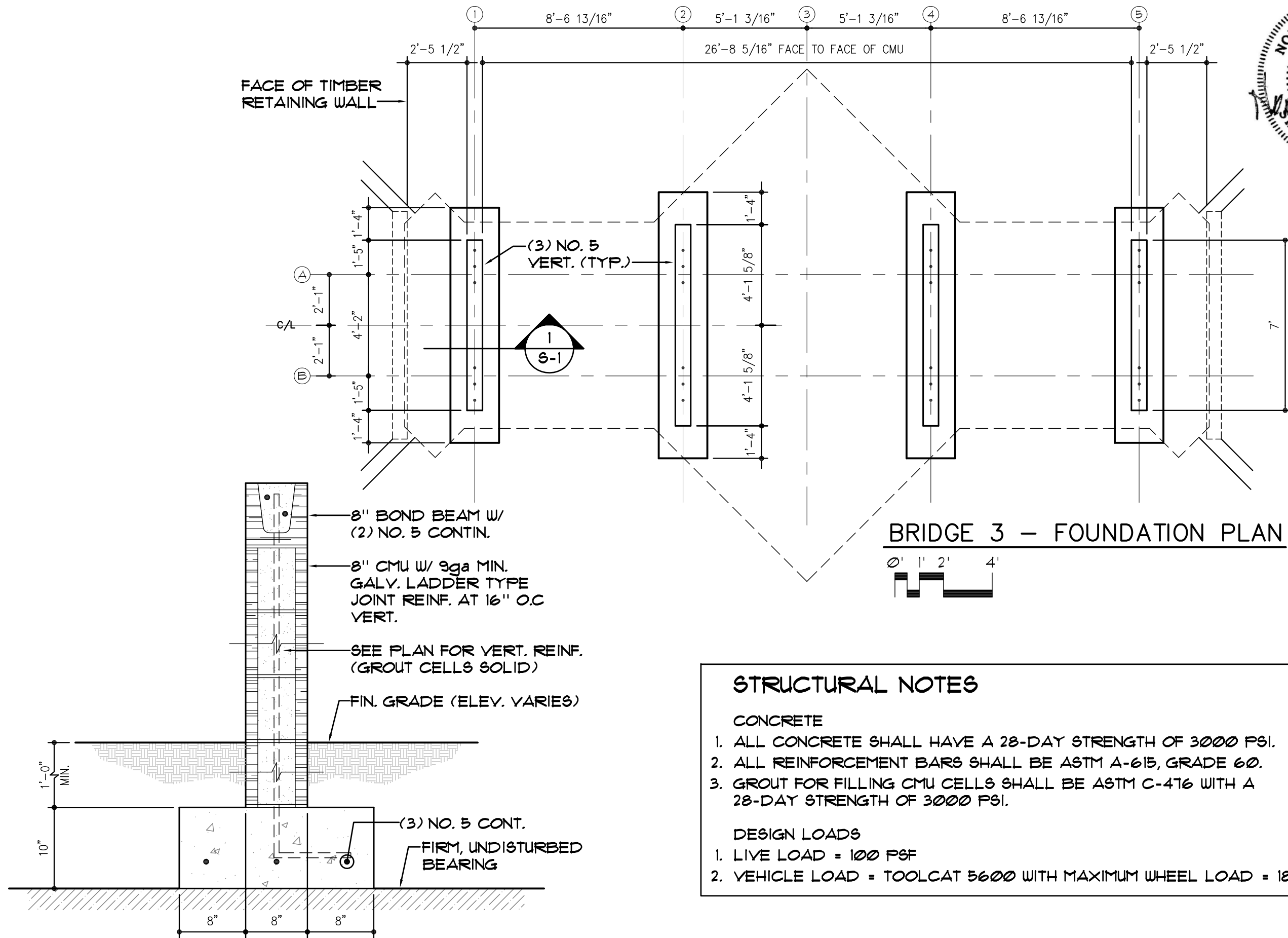


ISSUE DATE:
5/4/18

REVISIONS:
7/29/19

LAKE TRAIL BRIDGE 3
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

SHEET NUMBER
S-1



STRUCTURAL NOTES

CONCRETE

1. ALL CONCRETE SHALL HAVE A 28-DAY STRENGTH OF 3000 PSI.
2. ALL REINFORCEMENT BARS SHALL BE ASTM A-615, GRADE 60.
3. GROUT FOR FILLING CMU CELLS SHALL BE ASTM C-476 WITH A 28-DAY STRENGTH OF 3000 PSI.

DESIGN LOADS

1. LIVE LOAD = 100 PSF
2. VEHICLE LOAD = TOOLCAT 5600 WITH MAXIMUM WHEEL LOAD = 1800 LBS.

DETAIL

SCALE : 1" = 1'-0"

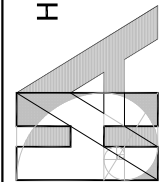
1



Harber Architecture, Inc.

11303 Springfield Hwy, Goodlettsville, TN 37072

Phone: 615 - 497 - 5043 Email: normharber@gmail.com

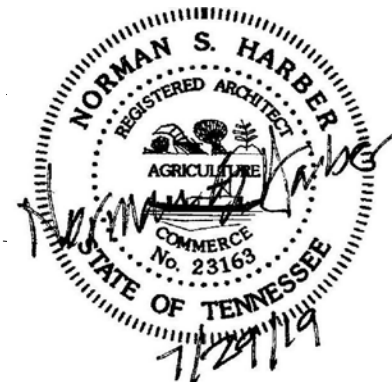
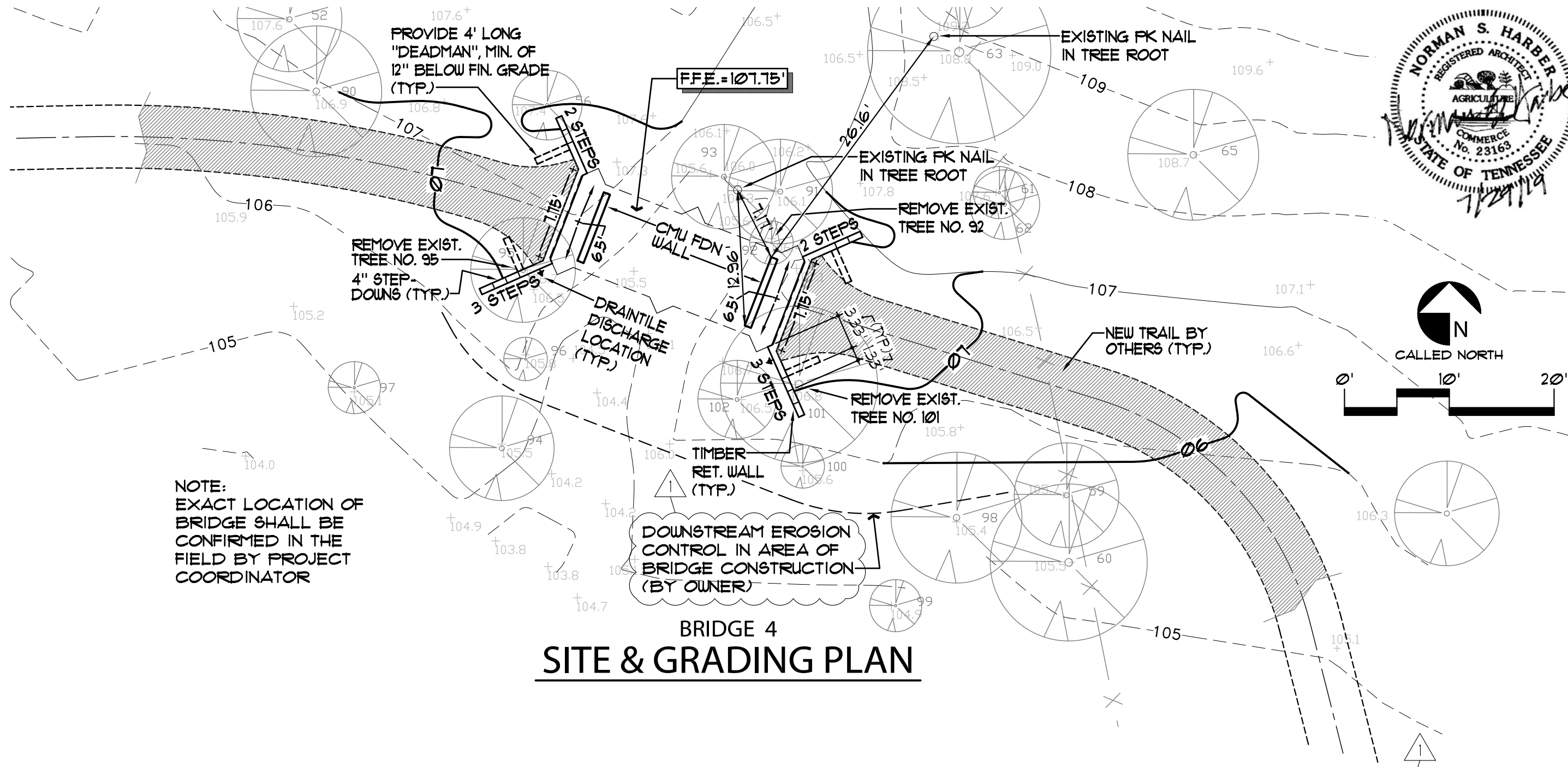


ISSUE DATE:
5/4/18

REVISIONS :
 7 / 29 / 19

LAKE TRAIL BRIDGE 4
BRADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

SHEET NUMBER
A-0

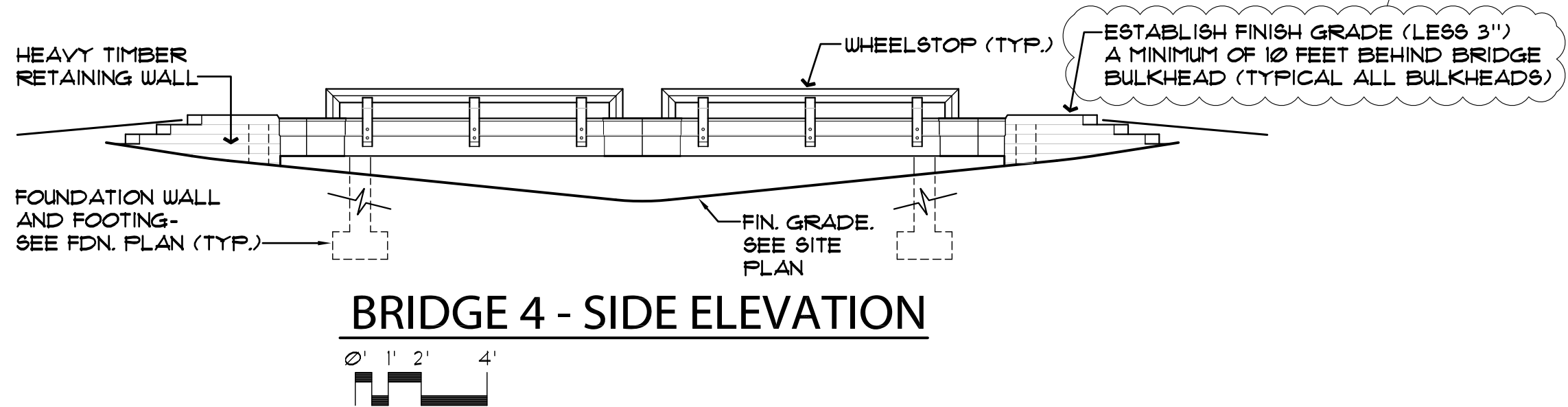


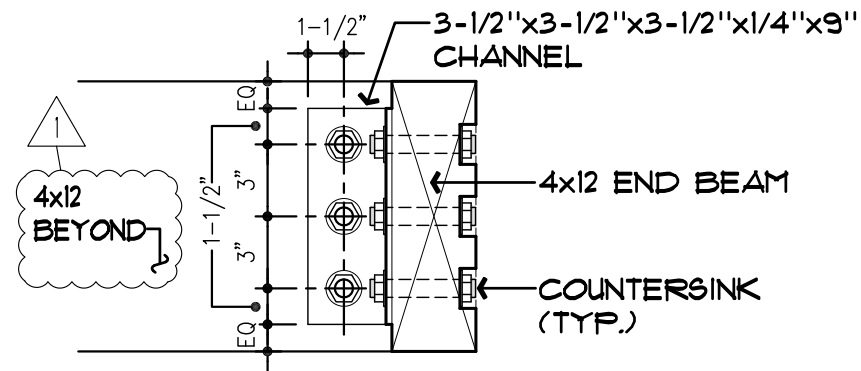
Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone: 615-497-5043 Email: normharber@gmail.com

ISSUE DATE:	5/4/18
REVISIONS:	7/29/19

LAKE TRAIL BRIDGE 4
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

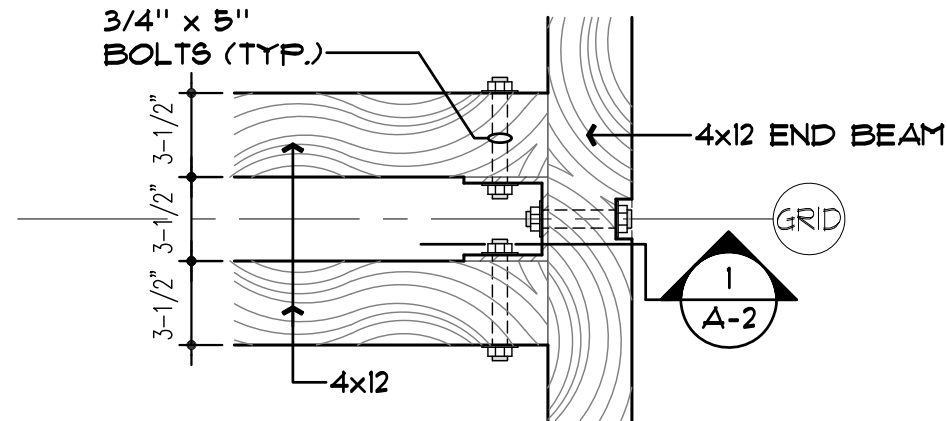
SHEET NUMBER
A-1





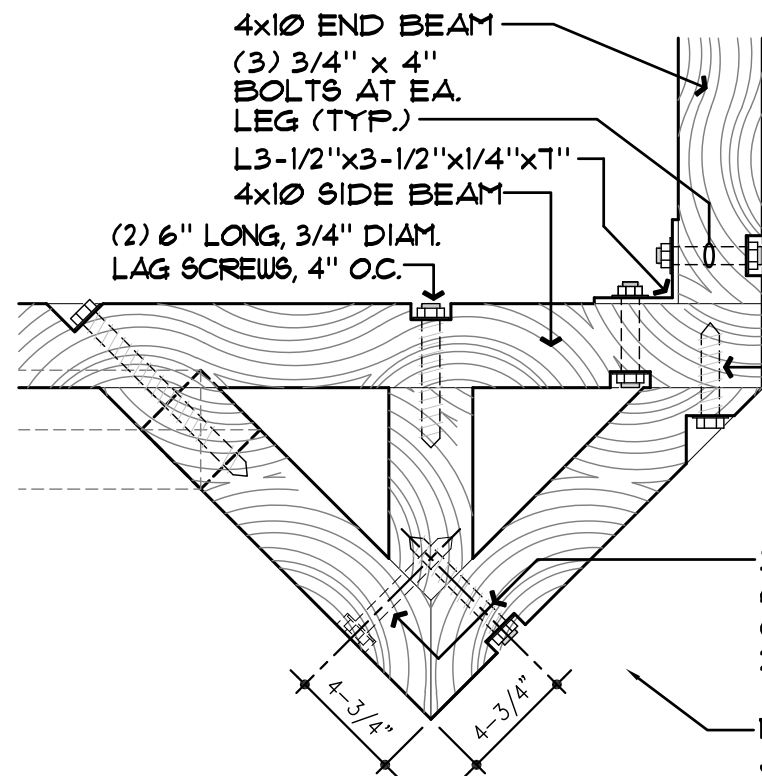
DETAIL 1

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



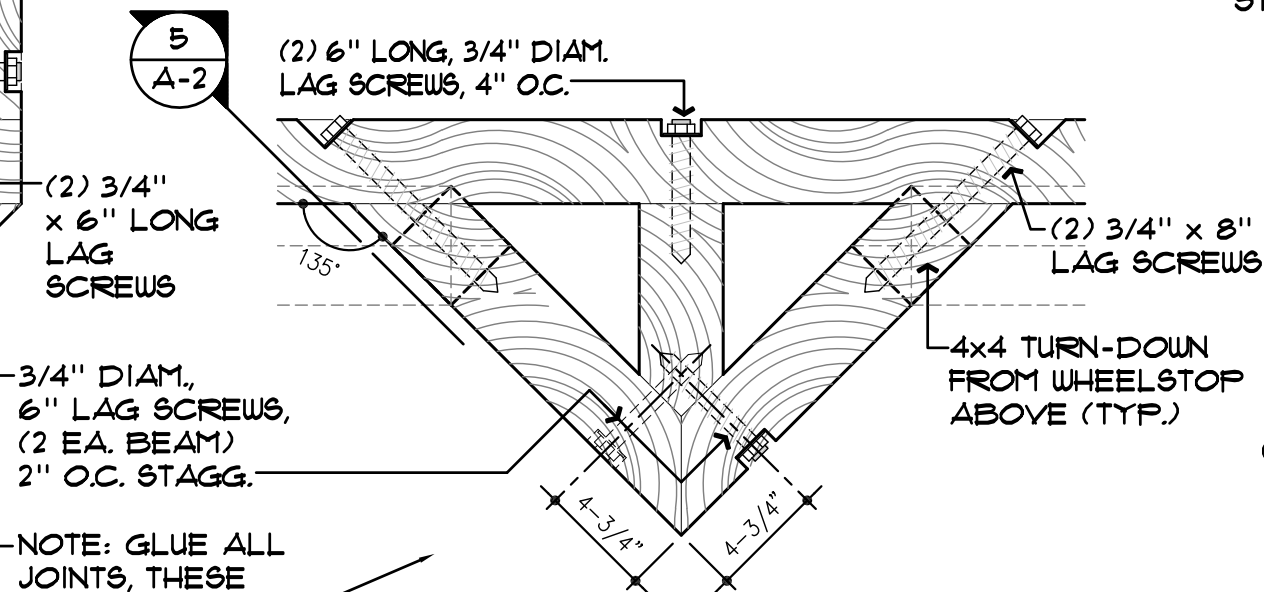
DETAIL 2

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



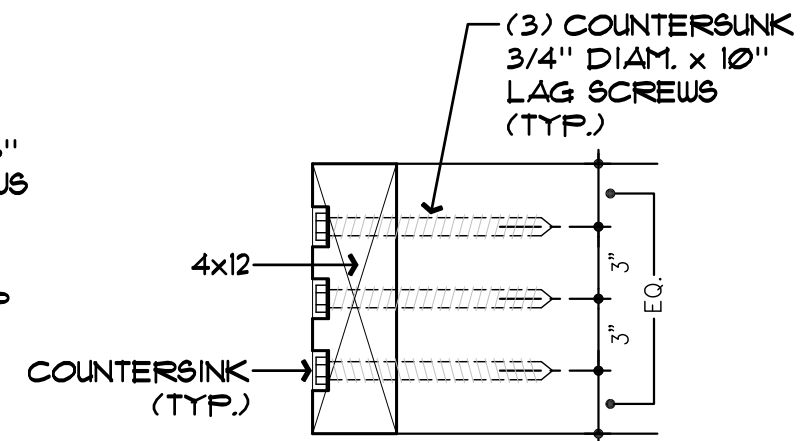
DETAIL 3

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



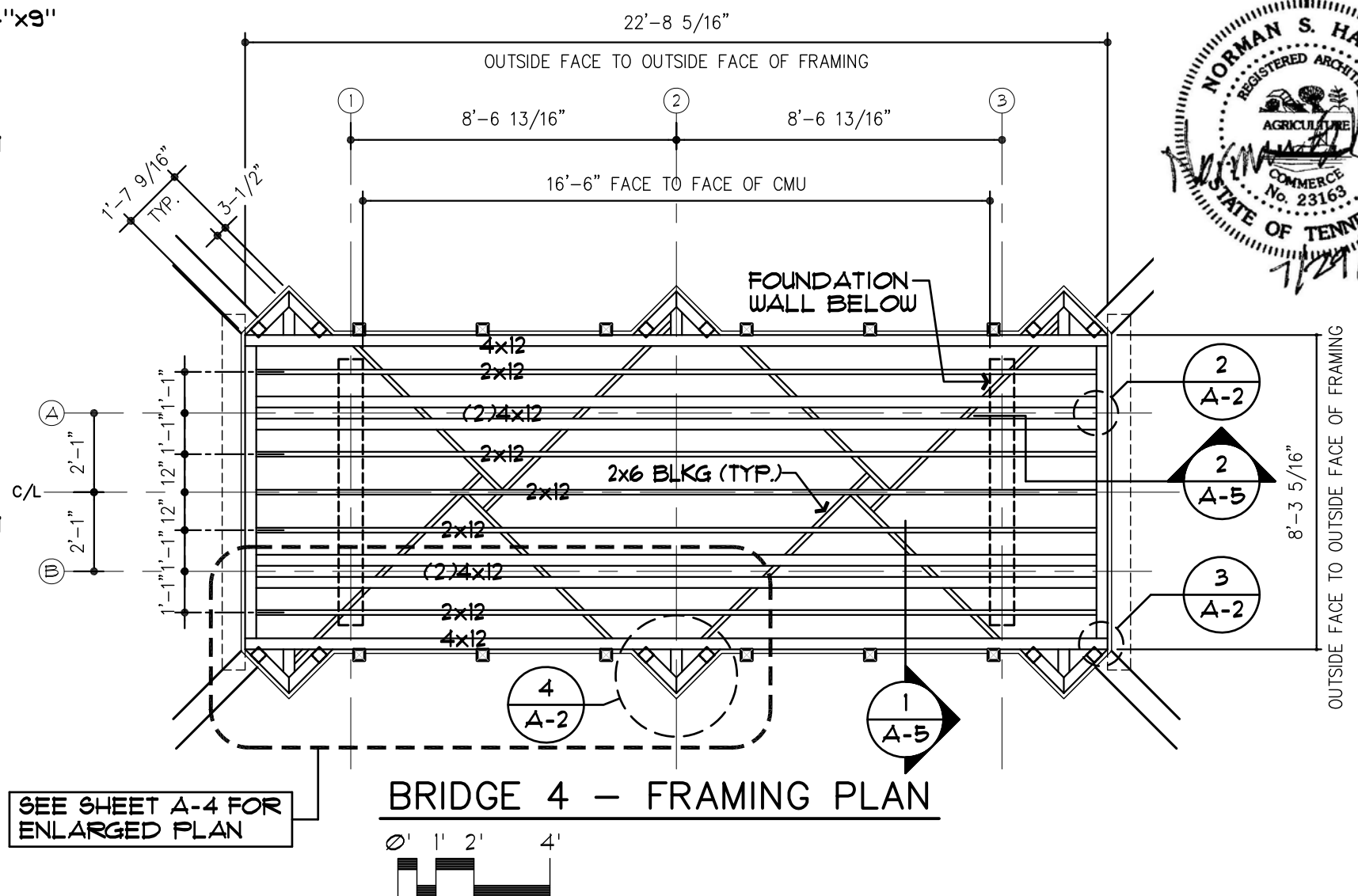
DETAIL 4

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



DETAIL 5

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



NOTE: USE USS HOT-DIPPED GALVANIZED WASHERS AT EVERY BOLT HEAD AND NUT. USE USS HOT-DIPPED STEEL ANGLE CONNECTORS.



Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone: 615-497-5043 Email: normharber@gmail.com

LAKE TRAIL BRIDGE 4
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

SHEET NUMBER
A-2

GENERAL NOTES

Fastener Requirements:

All specified bolts, washers, nuts, steel angles, and steel plates shall be hot dipped galvanized. Washers shall be used at every interface with wood members except at the head of carriage bolts.

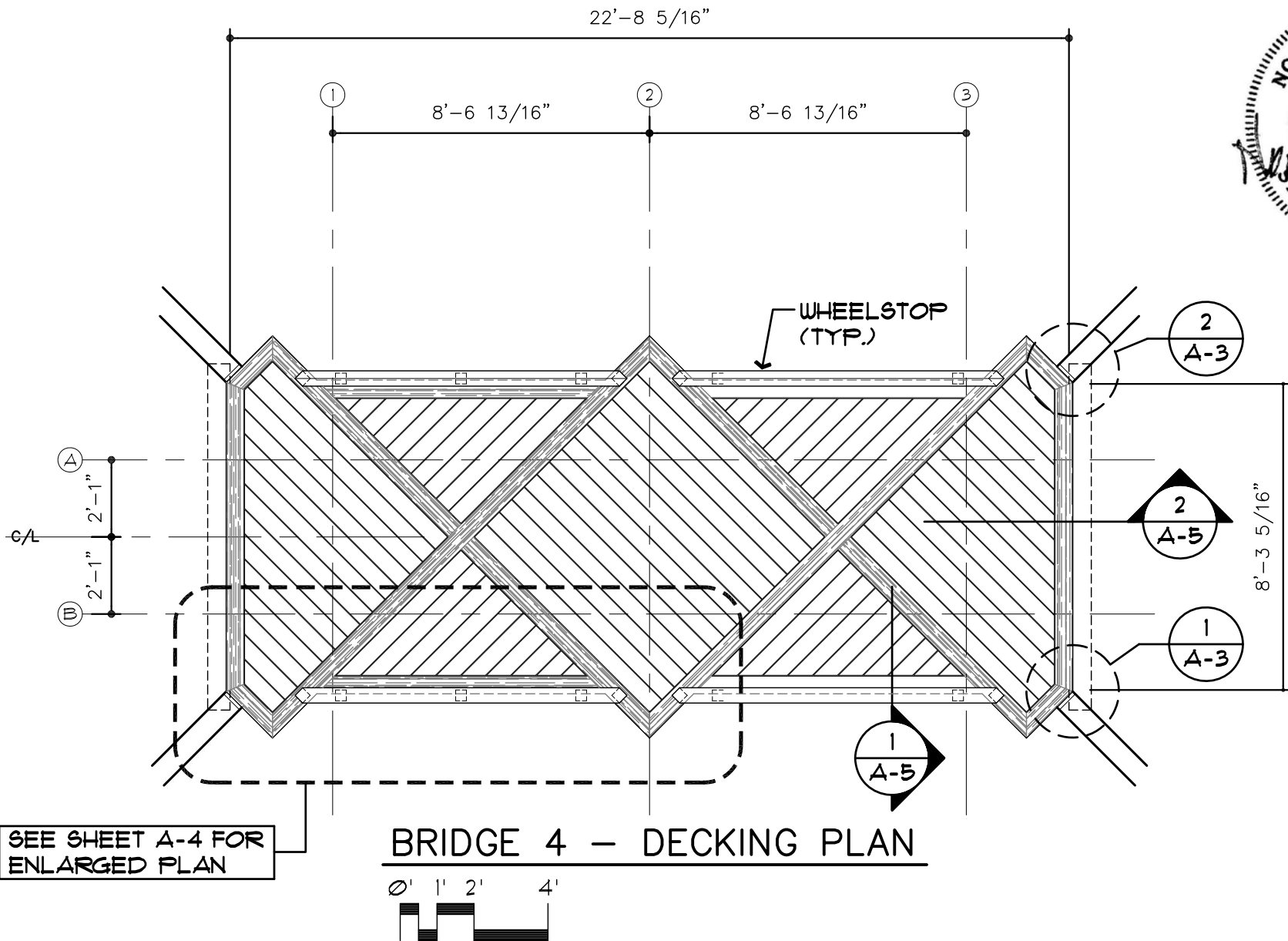
All connections for wood members shall be made with bolts or screws except 1 x 6 perimeter trim may be nailed with 8d galvanized ring shank nails. Appropriate length galvanized nails may be used in concealed locations as necessary to "set" members in place prior to making the permanent connection.

Concealed screws used in the floor framing system and subfloor shall be either stainless steel or Grip Rite (or equal) PrimeGuard Plus Green screws. Exposed screws on face of bridge, handrails and benches shall be Headcoat stainless steel trim head screws with Brown #34 colored heads (or approved equal). Length of the screw shall be appropriate for the application.

Retaining wall timbers shall be secured with seven inch long Headlok (or equal) flathead fasteners.

Stain Requirements:

All wood, including floor framing, shall be stained with PPG Flood Semi-Transparent Alkyd/Oil Stain (FLD802). Color formula is: B-2Y+12:C-44:F-1Y+6. "Cut" ends of wood members shall be stained prior to installation.

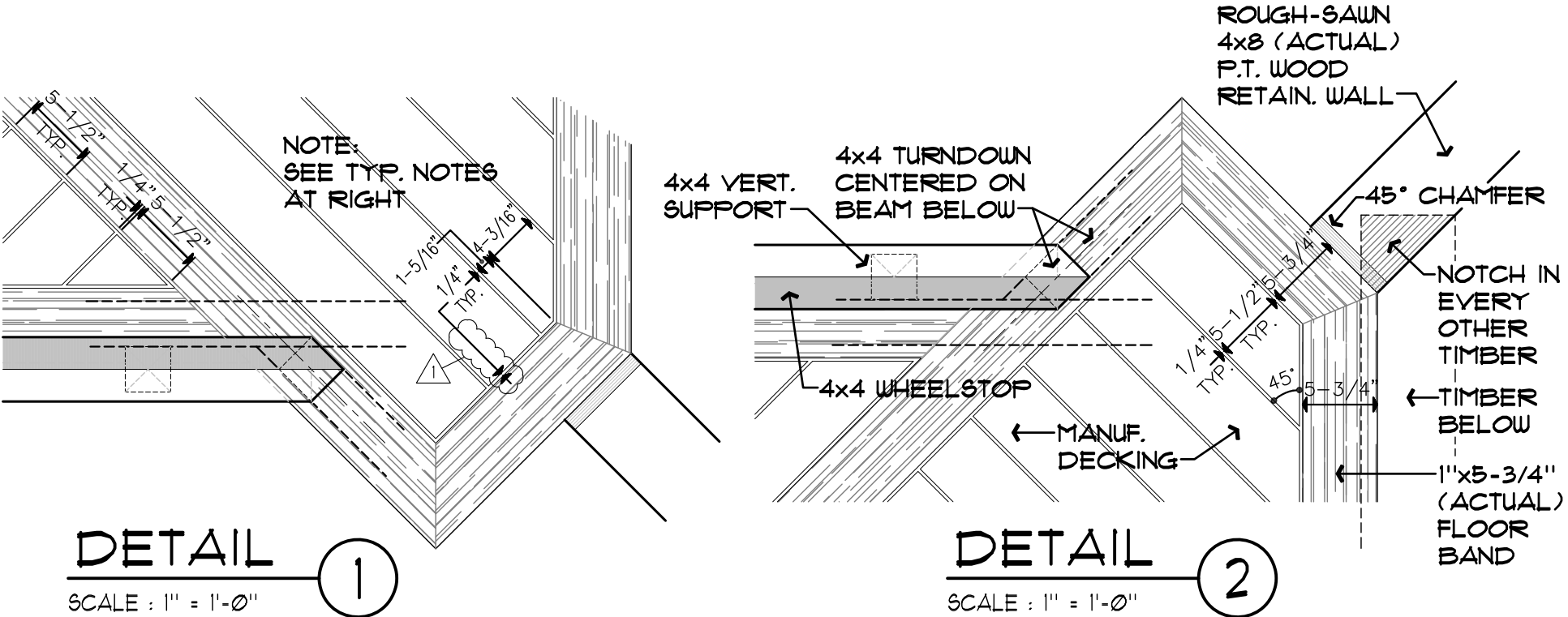


Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone: 615-497-5043 Email: normharber@gmail.com

ISSUE DATE:
5 / 4 / 18
REVISIONS:
7 / 29 / 19

LUMBER SCHEDULE							
NOMINAL SIZE	ACTUAL SIZE	SQUARE EDGE	1/8" RAD. EDGE	3/16" RAD. EDGE	FINISH DRESSED	ROUGH-SAWN	LOCATION
4x12	3-1/2" x 11-1/4"		●		●		
4x4	3-1/2" x 3-1/2"		●		●		
2x12	1-1/2" x 11-1/4"	●			●		
2X10	1-1/2" x 9-1/4"	●			●		
2x8	1-1/2" x 7-1/4"	●			●		
2x6	1-1/2" x 5-1/2"	●			●		
2x5	1-1/2" x 5"	●			●		SUBFLOOR
2x4	1-1/2" x 3-1/2"	●			●		
2x4	1-1/2" x 3-1/2"		●		●		HANDRAILS
2x2	1-1/2" x 1-1/2"		●		●		
1x6	7/8" x 5-3/4"			●	●		FLR. DECK/HANDRAILS
1x8	3/4" x 7-1/4"				●		POST CAPS
1x6	3/4" x 5-1/2"	●			●		PERIMETER TRIM
4x8	4" x 8"	●				●	RETAINING WALLS

NOTE: ALL LUMBER TO BE NO. 2 SOUTHERN YELLOW PINE (OR BETTER), PRESSURE-TREATED TO .60 PCF (OR BETTER)



LAKE TRAIL BRIDGE 4

RADNOR LAKE STATE NATURAL AREA

NASHVILLE, DAVIDSON COUNTY, TENNESSEE



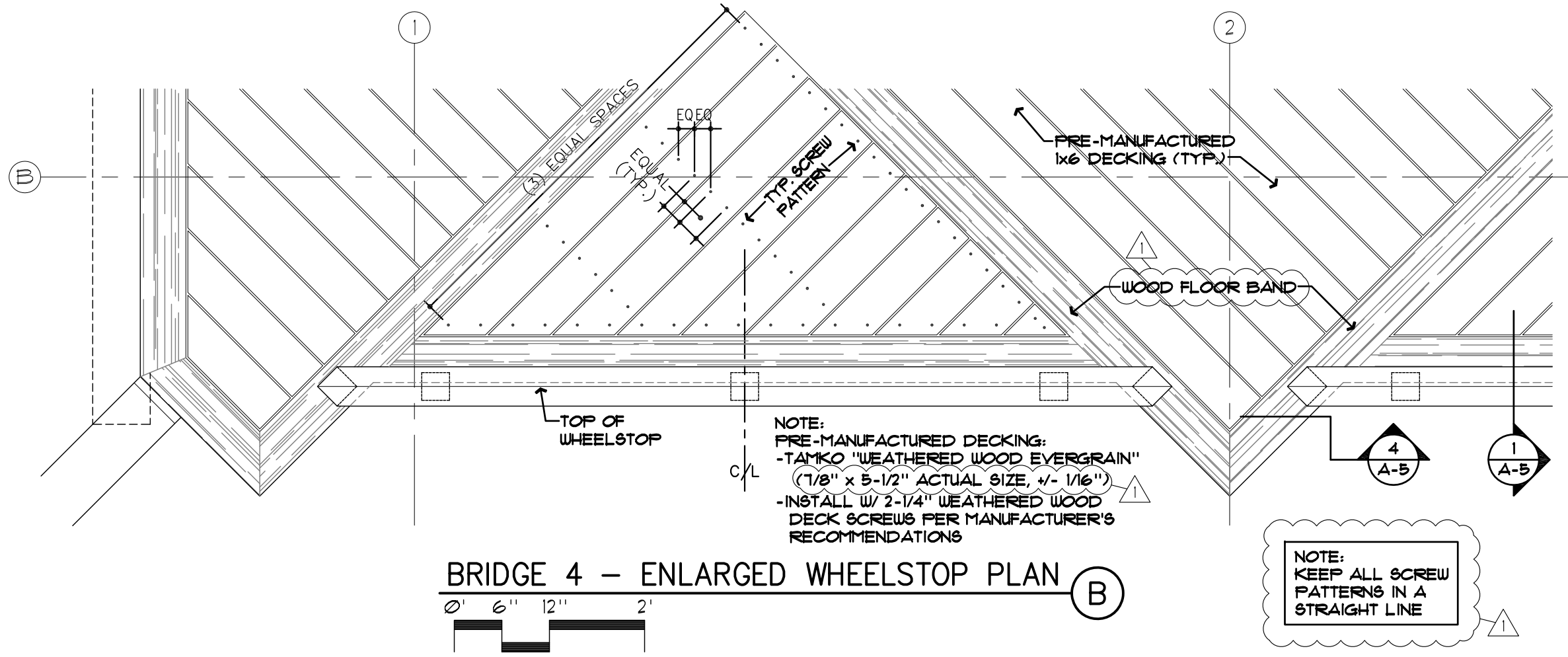
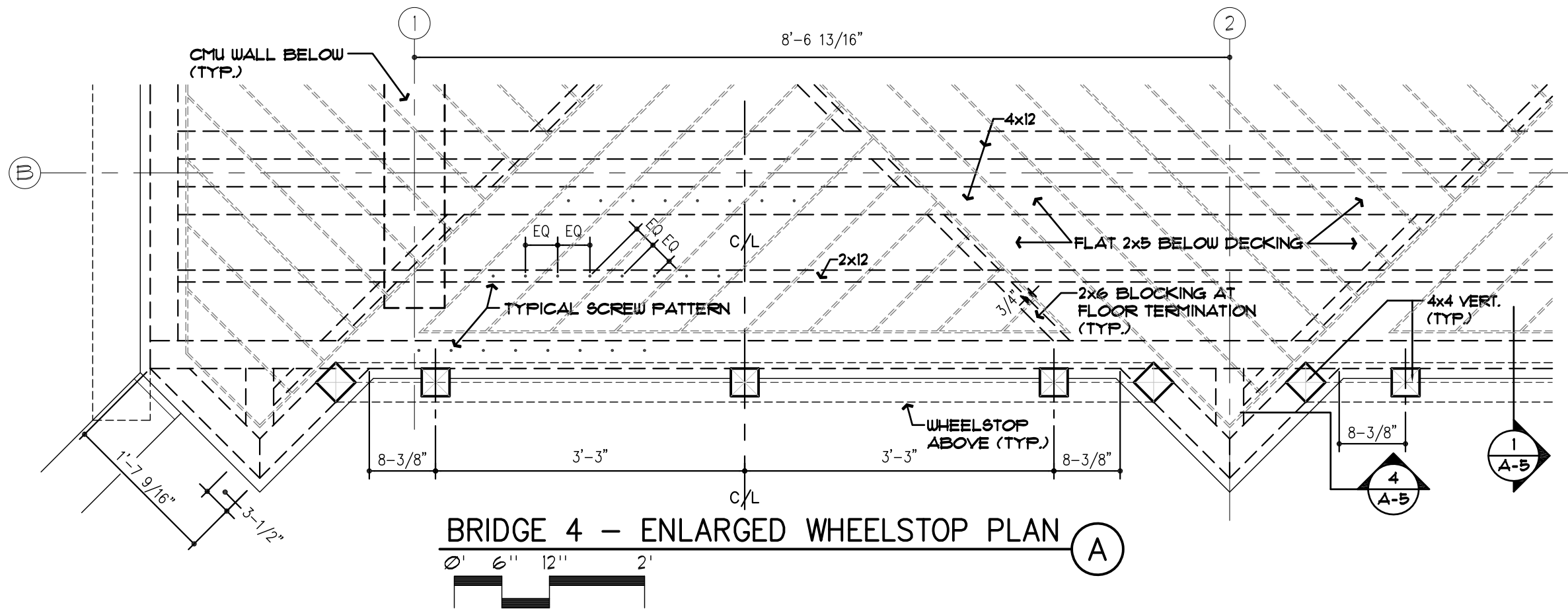
Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone: 615-497-5043 Email: normharber@gmail.com

ISSUE DATE:
5 / 4 / 18

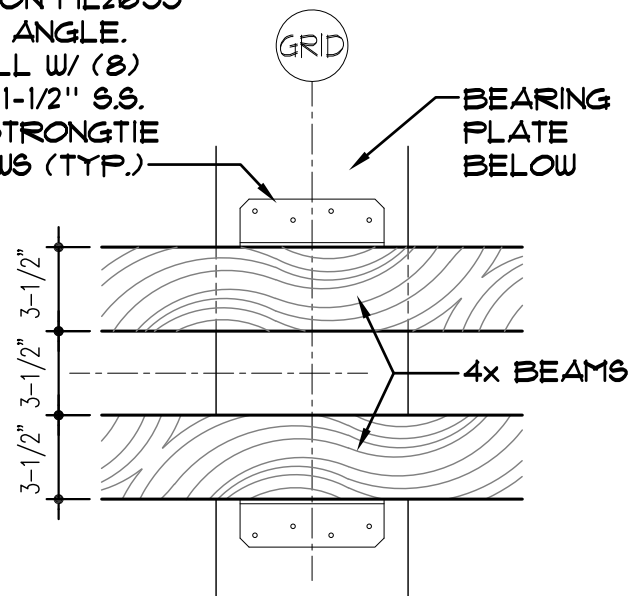
REVISIONS:
1 7 / 29 / 19

LAKE TRAIL BRIDGE 4
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

SHEET NUMBER
A-4



SIMPSON ML26SS
REINF. ANGLE.
INSTALL W/ (8)
1/4" x 1-1/2" S.S.
SDS STRONGTIE
SCREWS (TYP.)



DETAIL

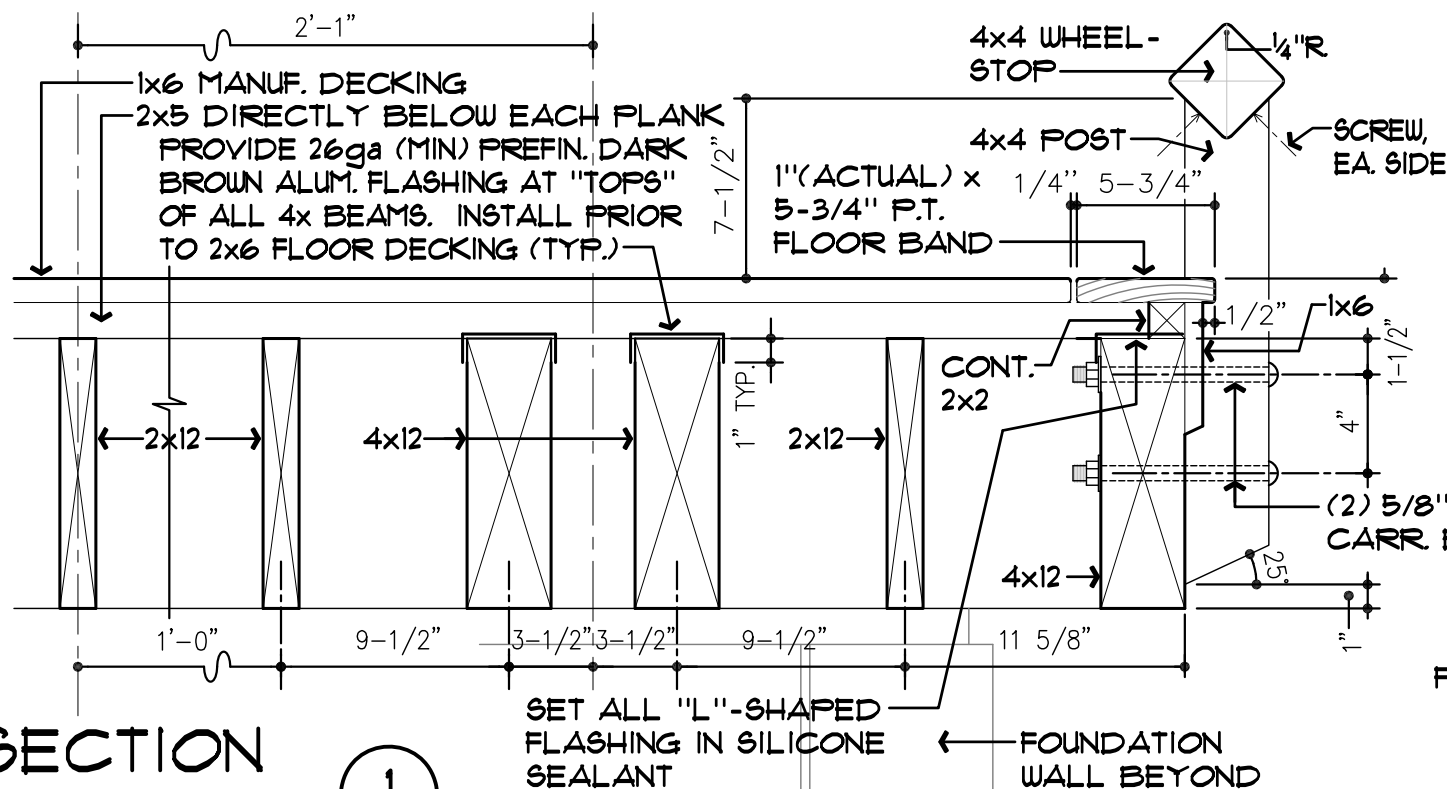
SCALE : 1-1/2" = 1'-0"

3

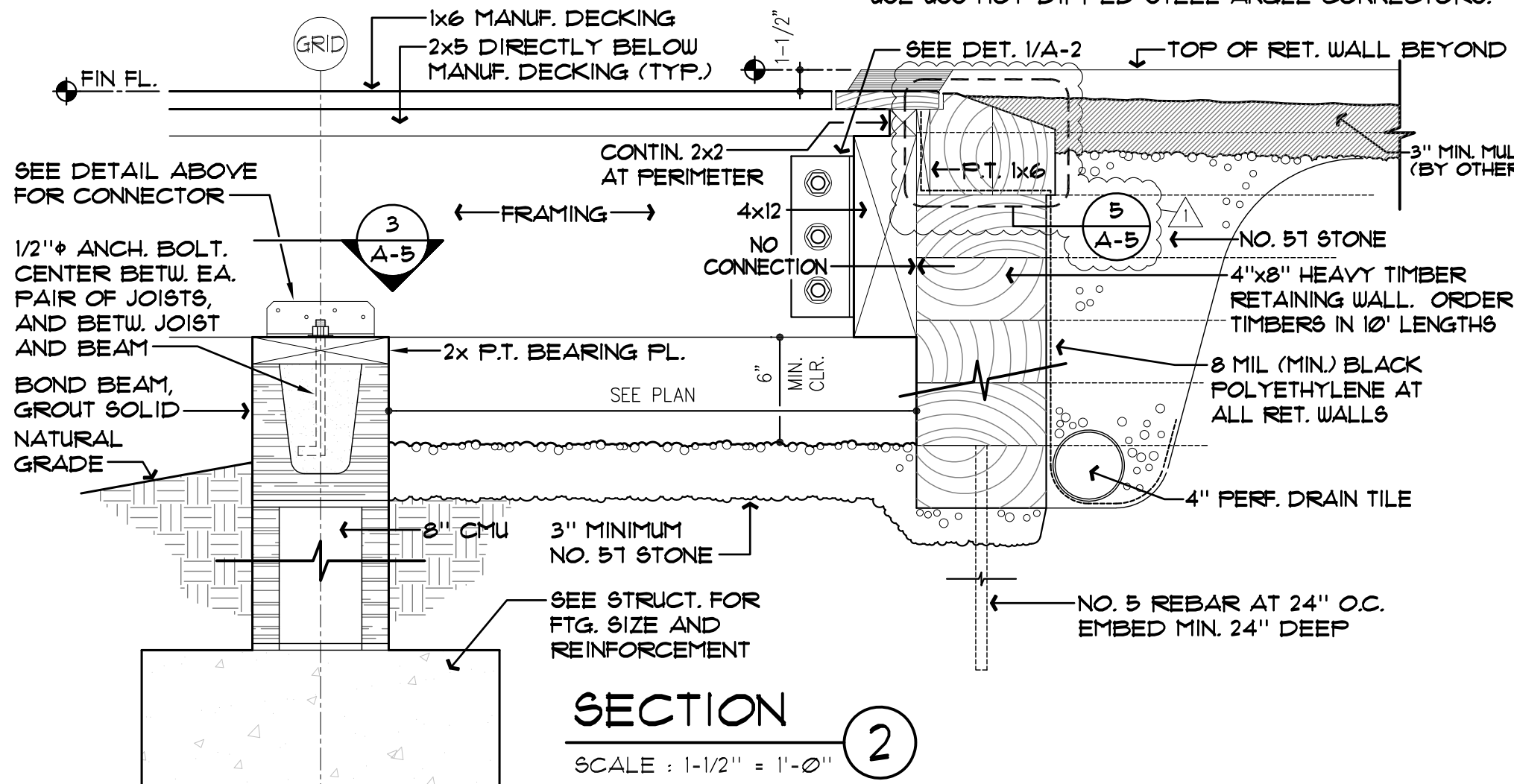
SECTION

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

1



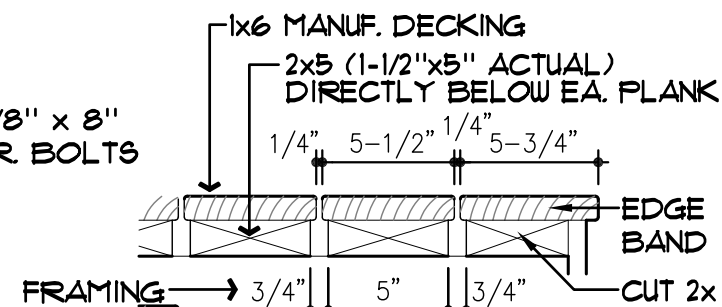
NOTE: USE USS HOT-DIPPED GALVANIZED
WASHERS AT EVERY BOLT HEAD AND NUT.
USE USS HOT-DIPPED STEEL ANGLE CONNECTORS.



SECTION

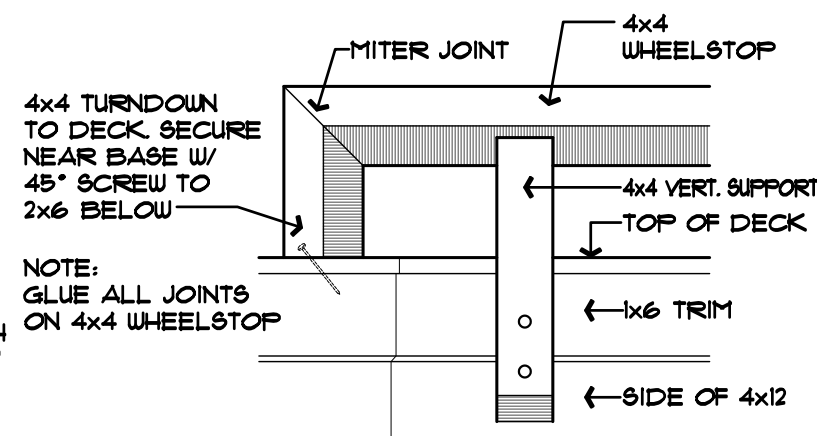
SCALE : 1-1/2" = 1'-0"

2



TYP. FLOOR

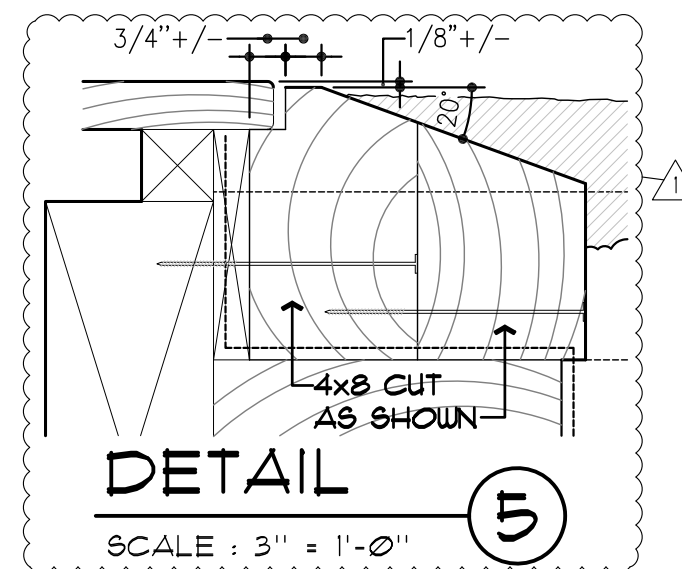
SCALE : 1-1/2" = 1'-0"



ELEVATION

SCALE : 1" = 1'-0"

4



DETAIL

SCALE : 3" = 1'-0"

5

Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone: 615-497-5043 Email: normharber@gmail.com

ISSUE DATE:
5/4/18

REVISIONS:
7/29/19

LAKE TRAIL BRIDGE 4
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

SHEET NUMBER
A-5



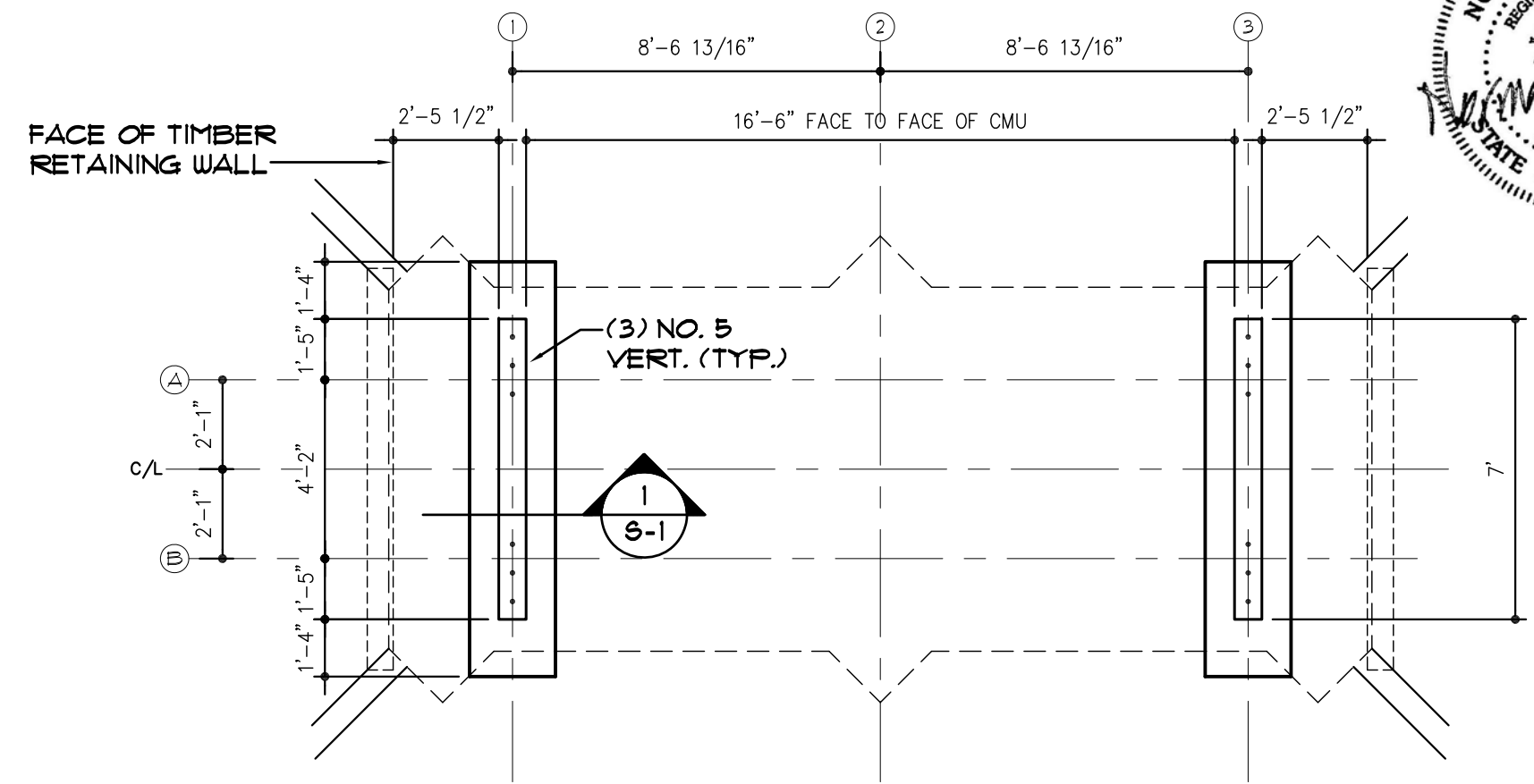
Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone: 615-497-5043 Email: normharber@gmail.com

ISSUE DATE:
5 / 4 / 18

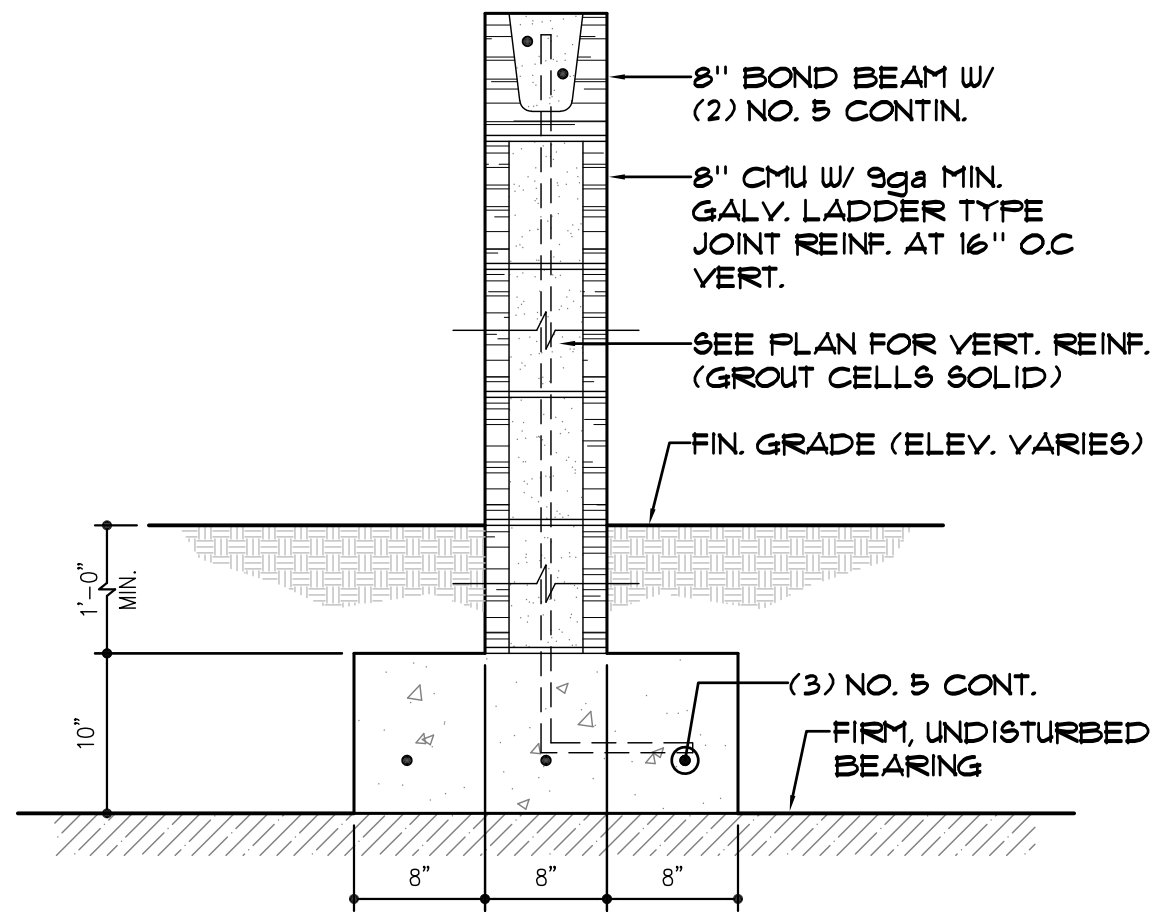
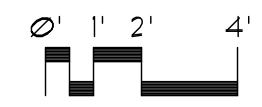
REVISIONS:
7 / 29 / 19

Lake Trail Bridge 4
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

SHEET NUMBER
S-1



BRIDGE 4 — FOUNDATION PLAN



DETAIL 1
SCALE : 1" = 1'-0"

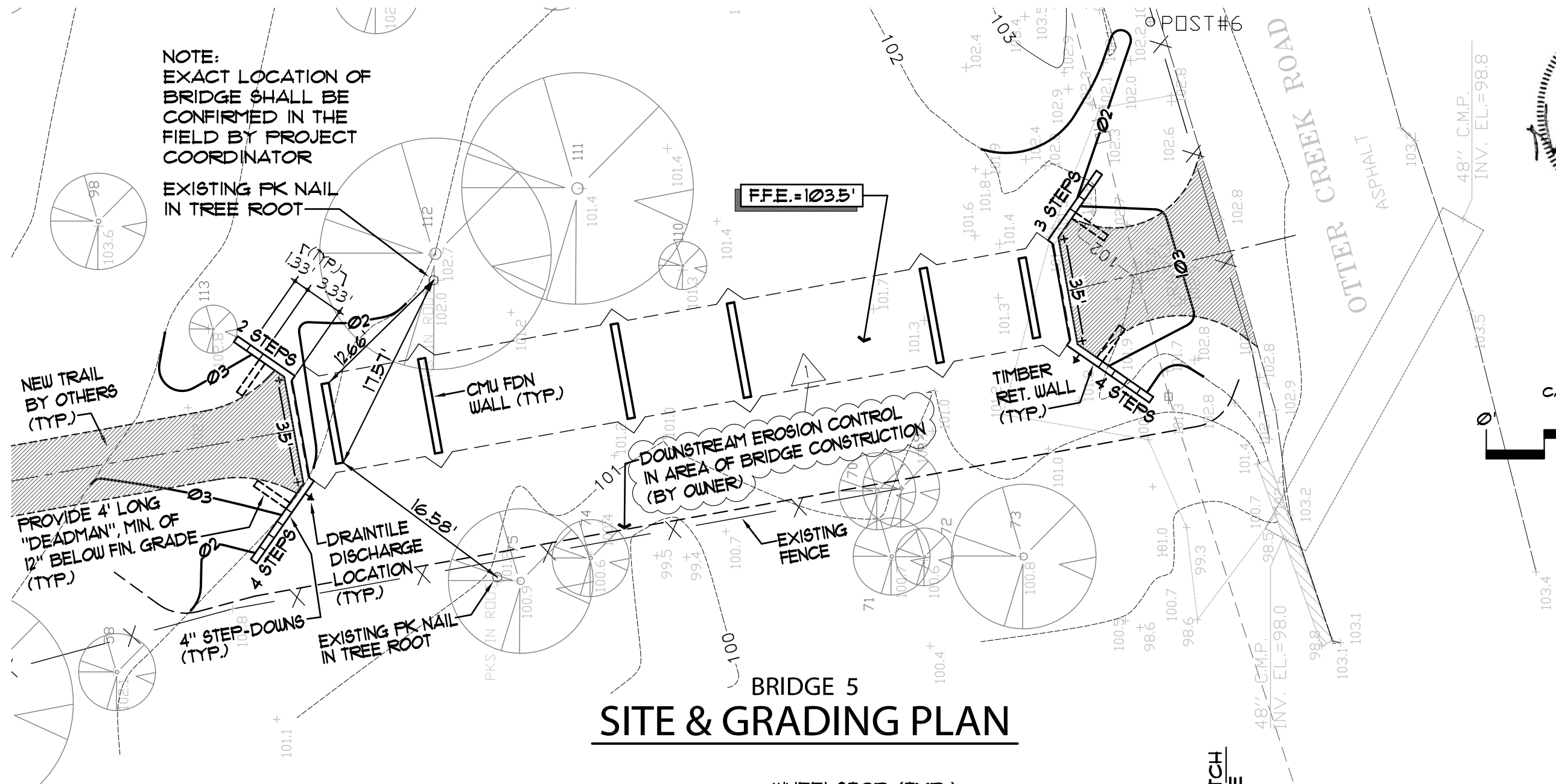
STRUCTURAL NOTES

CONCRETE

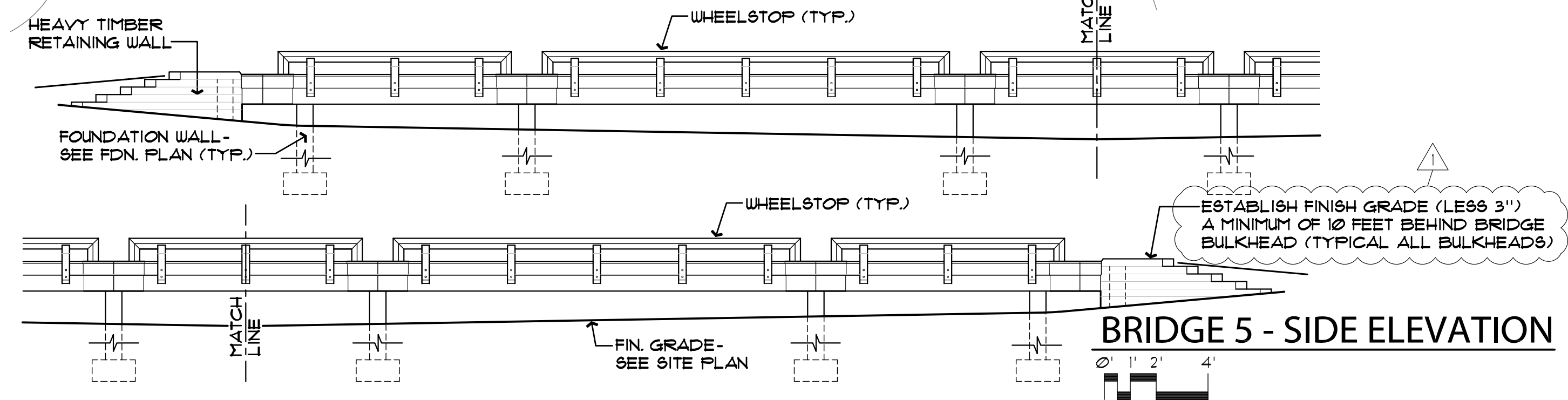
1. ALL CONCRETE SHALL HAVE A 28-DAY STRENGTH OF 3000 PSI.
2. ALL REINFORCEMENT BARS SHALL BE ASTM A-615, GRADE 60.
3. GROUT FOR FILLING CMU CELLS SHALL BE ASTM C-476 WITH A 28-DAY STRENGTH OF 3000 PSI.

DESIGN LOADS

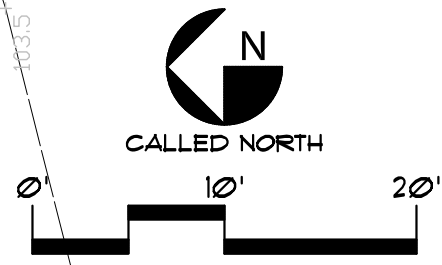
1. LIVE LOAD = 100 PSF
2. VEHICLE LOAD = TOOLCAT 5600 WITH MAXIMUM WHEEL LOAD = 1800 LBS.



BRIDGE 5 SITE & GRADING PLAN



BRIDGE 5 - SIDE ELEVATION



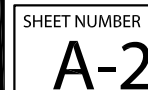
Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone: 615-497-5043 Email: normharber@gmail.com

ISSUE DATE:
5/4/18

REVISIONS:
7/29/19

LAKE TRAIL BRIDGE 5
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

SHEET NUMBER
A-1



GENERAL NOTES

Fastener Requirements:

All specified bolts, washers, nuts, steel angles, and steel plates shall be hot dipped galvanized. Washers shall be used at every interface with wood members except at the head of carriage bolts.

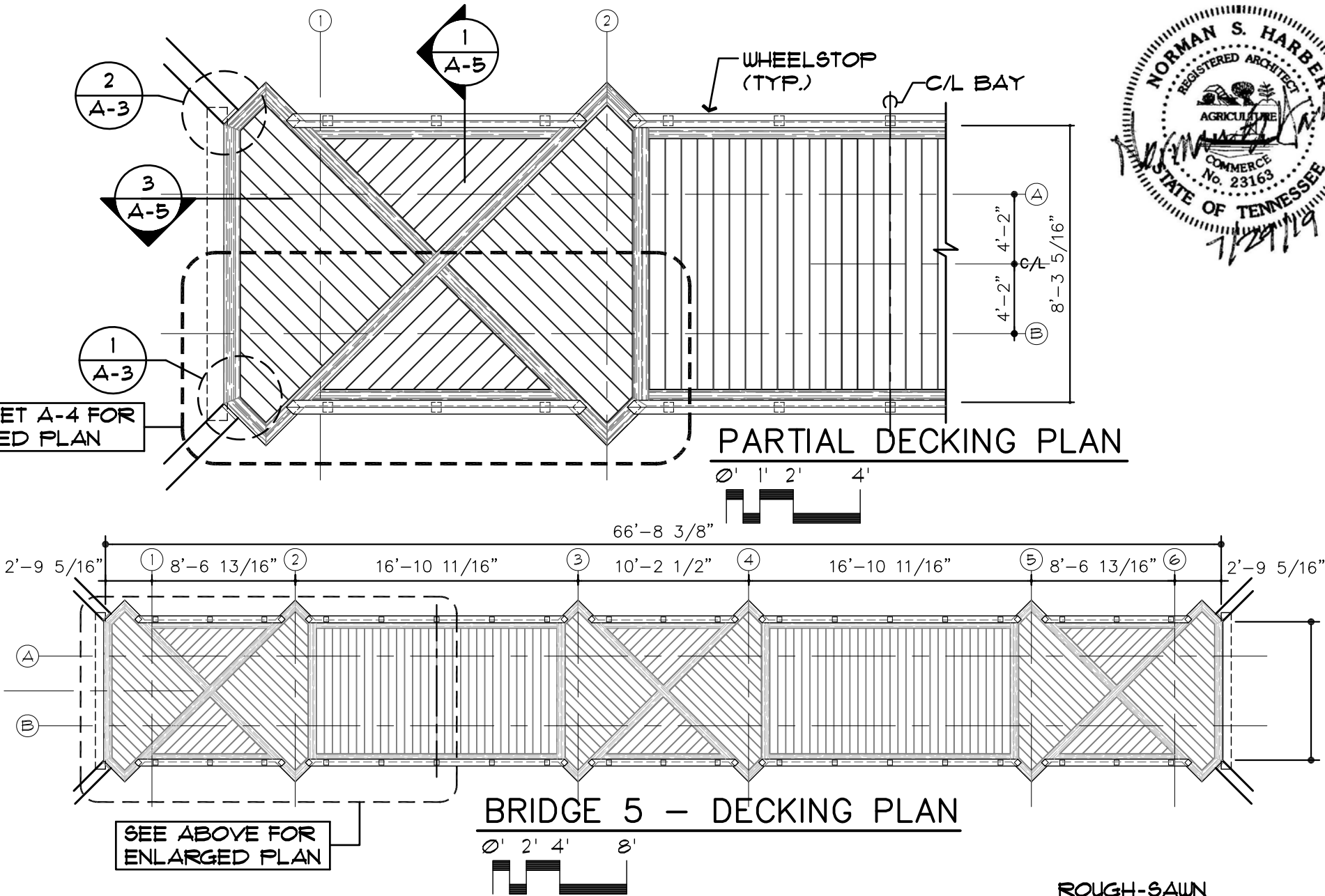
All connections for wood members shall be made with bolts or screws except 1 x 6 perimeter trim may be nailed with 8d galvanized ring shank nails. Appropriate length galvanized nails may be used in concealed locations as necessary to "set" members in place prior to making the permanent connection.

Concealed screws used in the floor framing system and subfloor shall be either stainless steel or Grip Rite (or equal) PrimeGuard Plus Green screws. Exposed screws on face of bridge, handrails and benches shall be Headcoat stainless steel trim head screws with Brown #34 colored heads (or approved equal). Length of the screw shall be appropriate for the application.

Retaining wall timbers shall be secured with seven inch long Headlok (or equal) flathead fasteners.

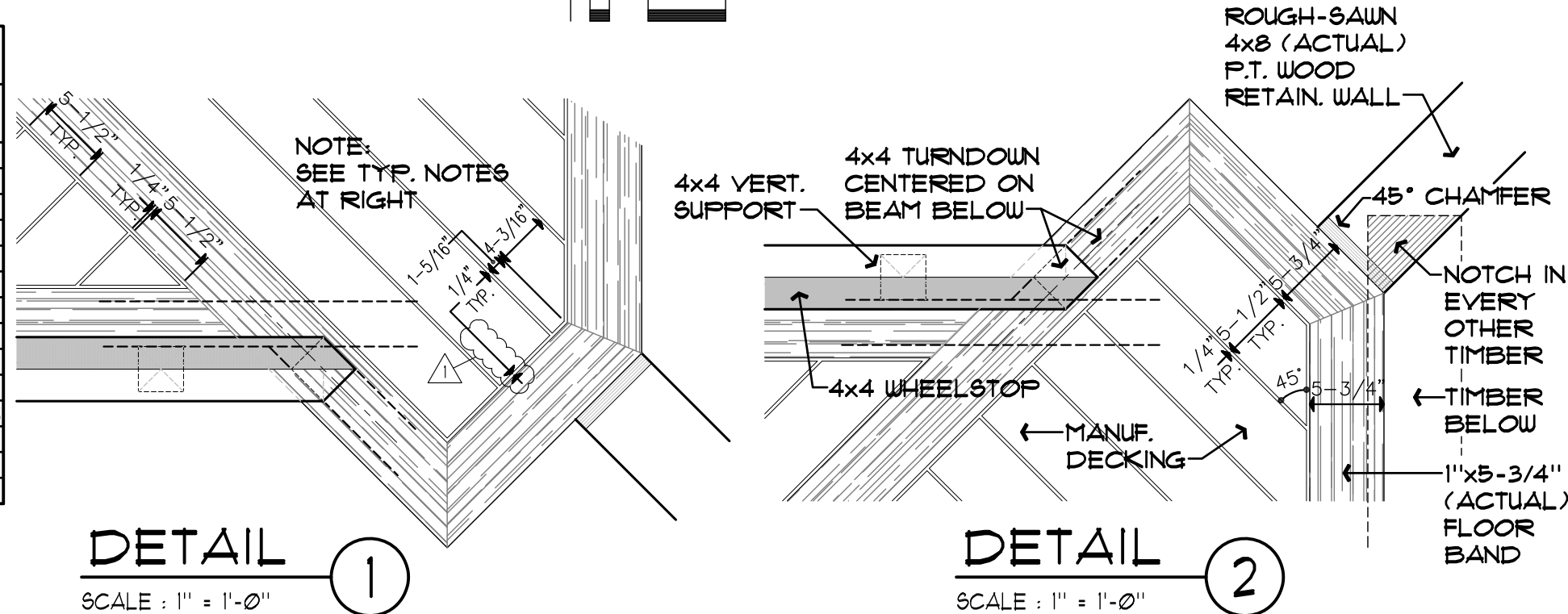
Stain Requirements:

All wood, including floor framing, shall be stained with PPG Flood Semi-Transparent Alkyd/Oil Stain (FLD802). Color formula is: B-2Y+12:C-44:F-1Y+6. "Cut" ends of wood members shall be stained prior to installation.



LUMBER SCHEDULE							
NOMINAL SIZE	ACTUAL SIZE	SQUARE EDGE	1/8" RAD. EDGE	3/16" RAD. EDGE	FINISH DRESSED	ROUGH-SAWN	LOCATION
4x12	3-1/2" x 11-1/4"		●		●		
4x4	3-1/2" x 3-1/2"		●		●		
2x12	1-1/2" x 11-1/4"	●			●		
2X10	1-1/2" x 9-1/4"	●			●		
2x8	1-1/2" x 7-1/4"	●			●		
2x6	1-1/2" x 5-1/2"	●			●		
2x5	1-1/2" x 5"	●			●		SUBFLOOR
2x4	1-1/2" x 3-1/2"	●			●		
2x4	1-1/2" x 3-1/2"		●		●		HANDRAILS
2x2	1-1/2" x 1-1/2"		●		●		
1x6	7/8" x 5-3/4"			●	●		FLR. DECK/HANDRAILS
1x8	3/4" x 7-1/4"	●			●		POST CAPS
1x6	3/4" x 5-1/2"	●			●		PERIMETER TRIM
4x8	4" x 8"	●				●	RETAINING WALLS

NOTE: ALL LUMBER TO BE NO. 2 SOUTHERN YELLOW PINE (OR BETTER), PRESSURE-TREATED TO .60 PCF (OR BETTER)



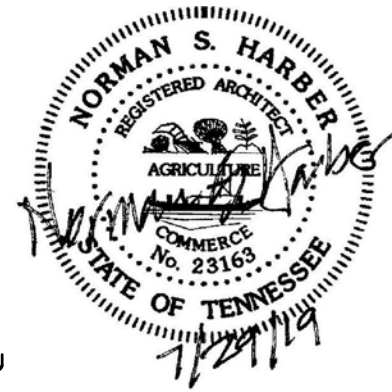
Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone: 615-497-5043 Email: normharber@gmail.com

ISSUE DATE:
5/4/18

REVISIONS:
7/29/19

LAKE TRAIL BRIDGE 5
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

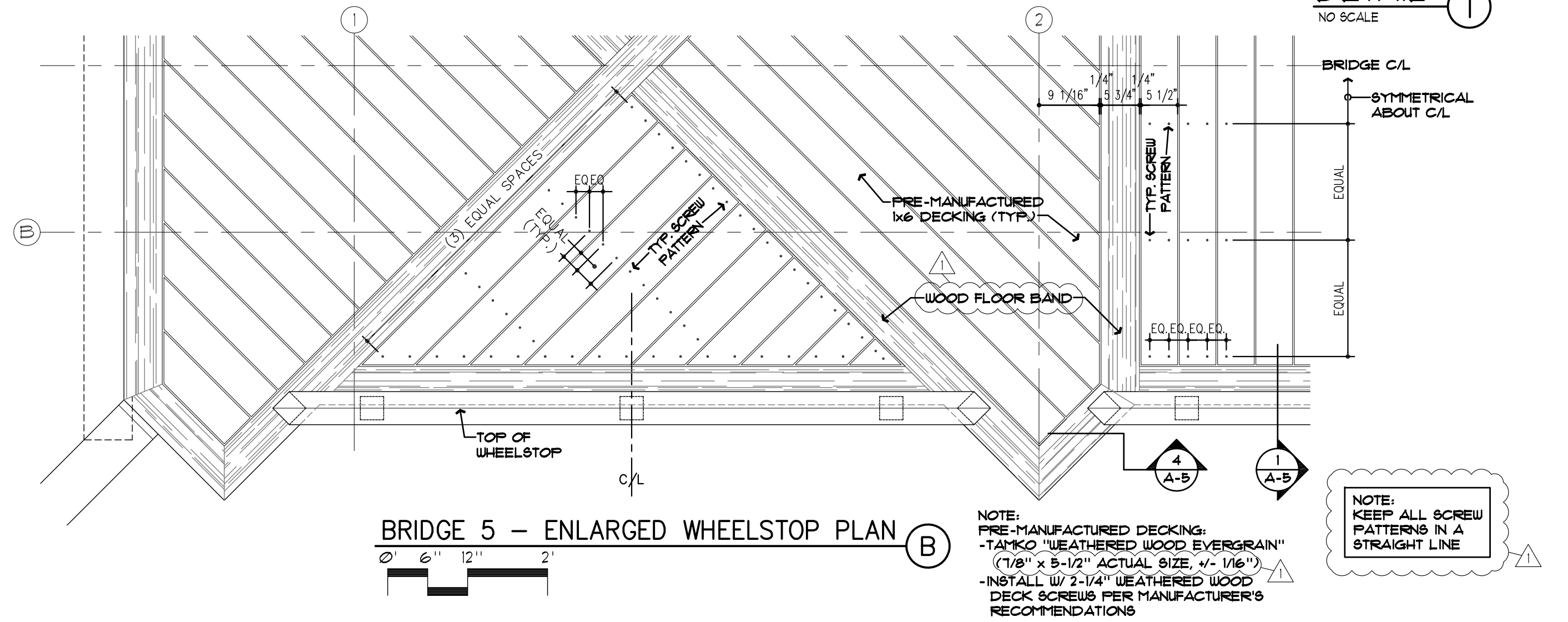
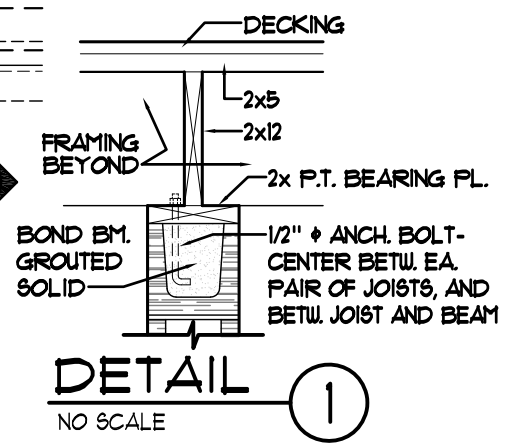
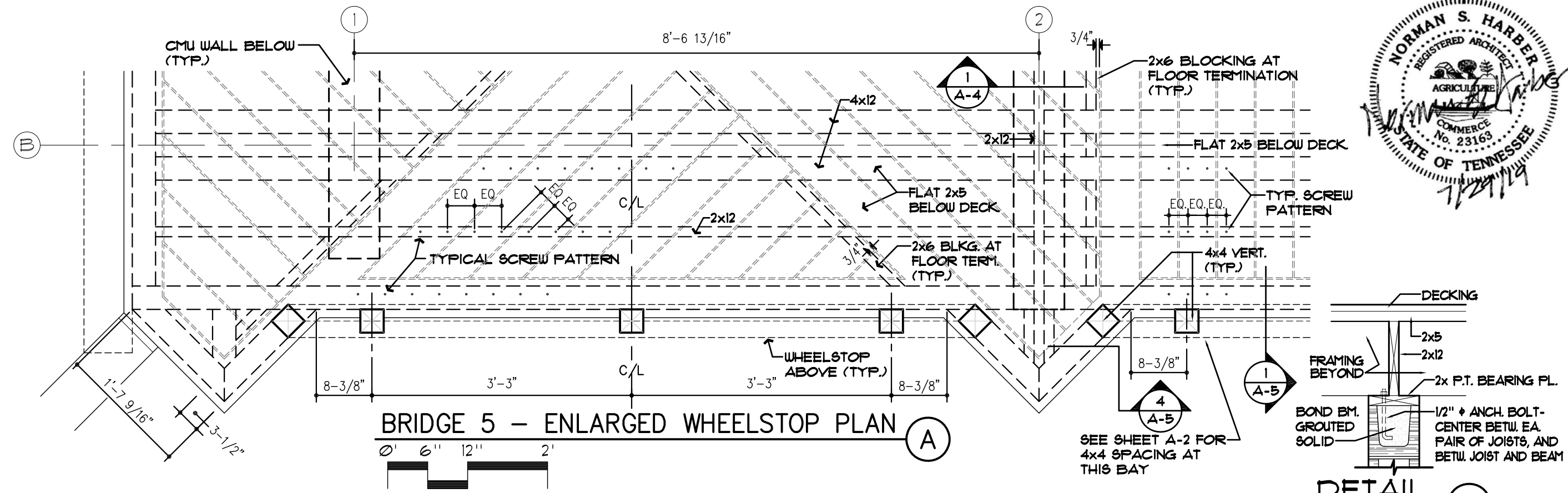
SHEET NUMBER
A-3



Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone: 615-497-5043 Email: normharber@gmail.com

Lake Trail Bridge 5
Radnor Lake State Natural Area
Nashville, Davidson County, Tennessee

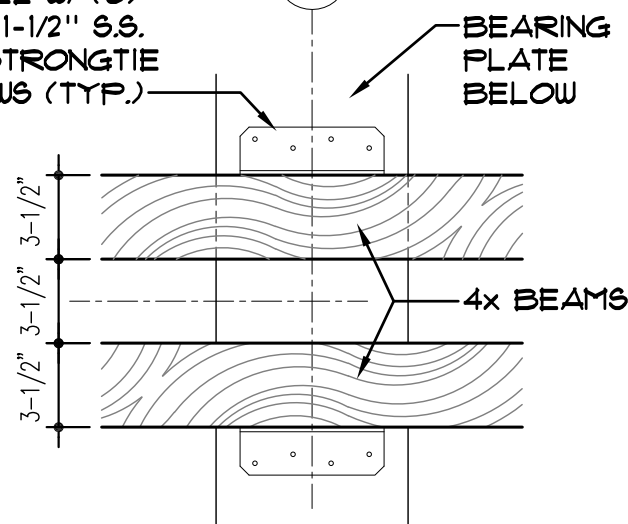
SHEET NUMBER
A-4



NOTE:
PRE-MANUFACTURED DECKING:
-TAMKO "WEATHERED WOOD EVERGRAIN"
(1/8" x 5-1/2" ACTUAL SIZE, +/- 1/16")
-INSTALL W/ 2-1/4" WEATHERED WOOD
DECK SCREWS PER MANUFACTURER'S
RECOMMENDATIONS

NOTE:
KEEP ALL SCREW
PATTERNS IN A
STRAIGHT LINE

SIMPSON ML26SS
REINF. ANGLE.
INSTALL W/ (8)
1/4" x 1-1/2" S.S.
SDS STRONGTIE
SCREWS (TYP.)



DETAIL

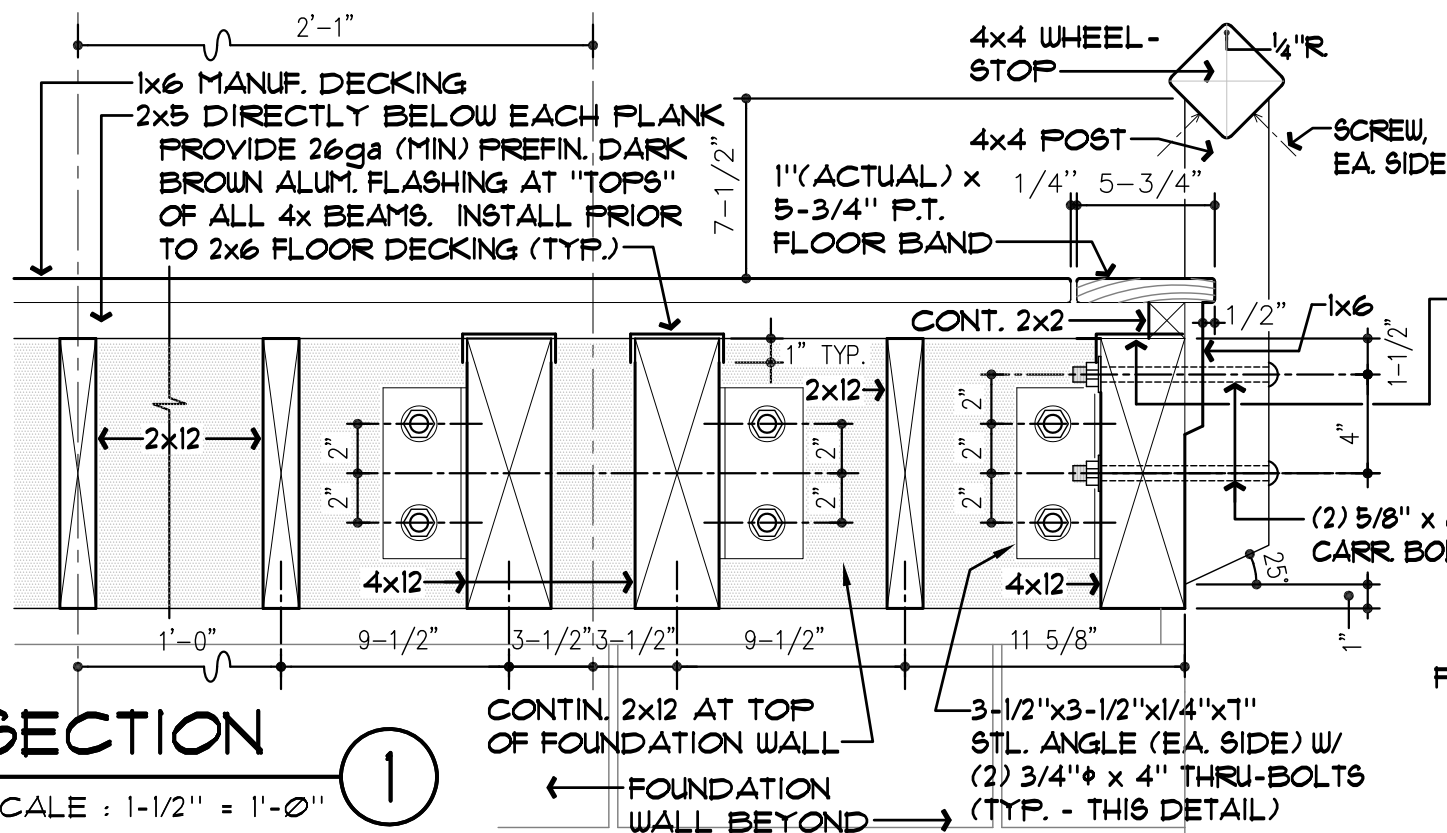
SCALE : 1-1/2" = 1'-0"

3

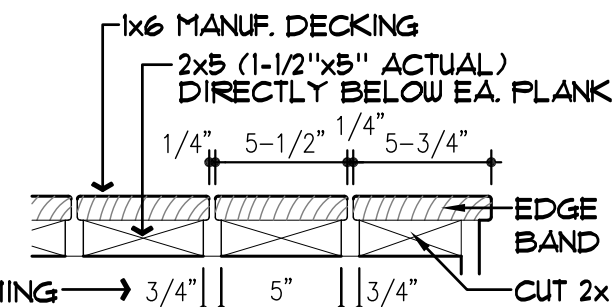
SECTION

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

1



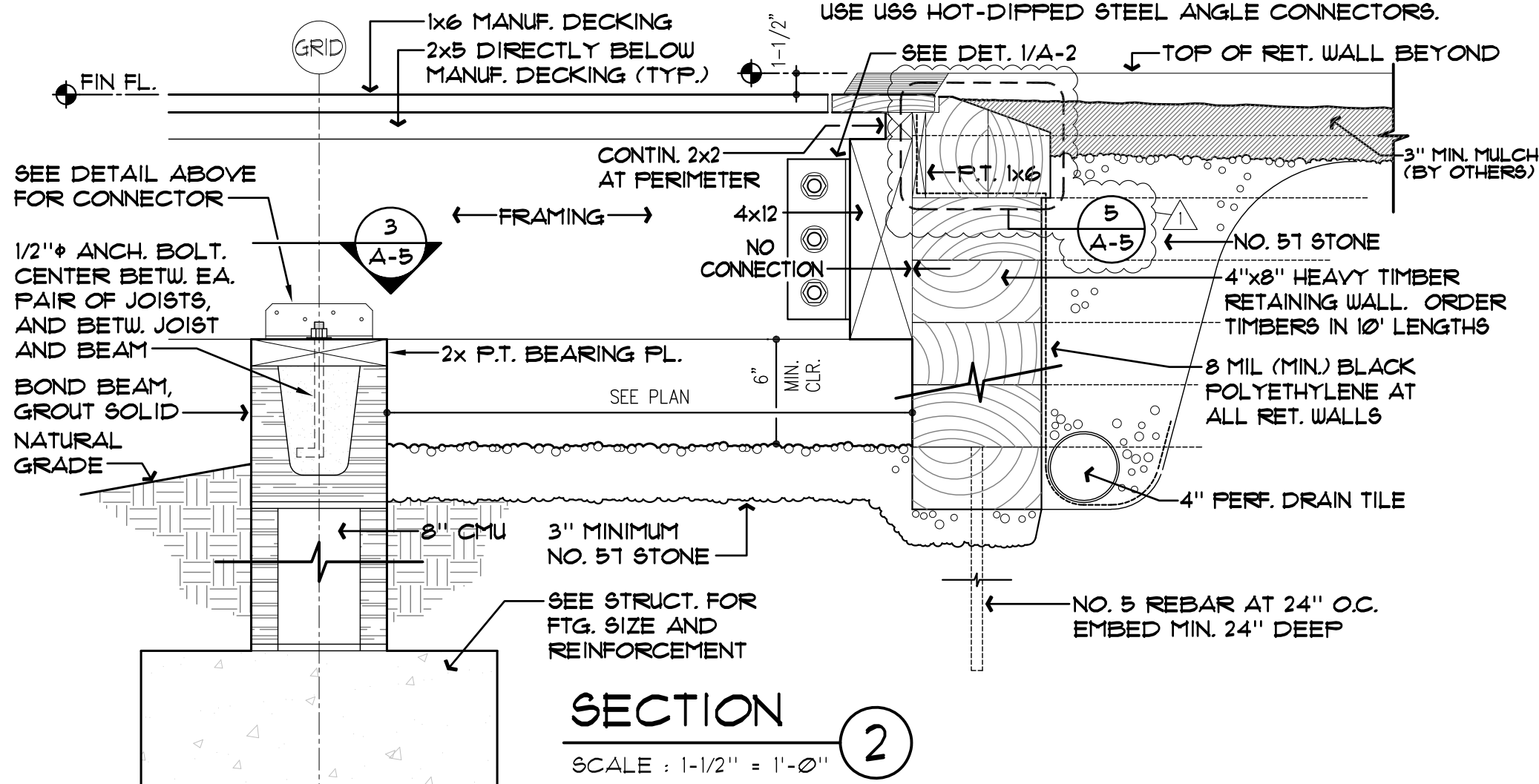
SET ALL "L"-SHAPED
FLASHING IN SILICONE
SEALANT



TYP. FLOOR

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

NOTE: USE USS HOT-DIPPED GALVANIZED
WASHERS AT EVERY BOLT HEAD AND NUT.
USE USS HOT-DIPPED STEEL ANGLE CONNECTORS.



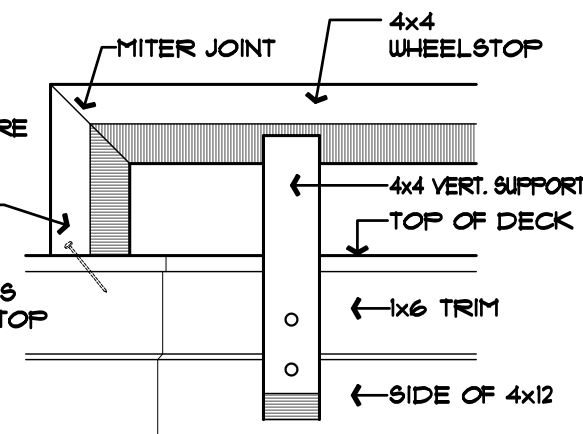
SECTION

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

2

4x4 TURNDOWN
TO DECK. SECURE
NEAR BASE W/
45° SCREW TO
2x6 BELOW

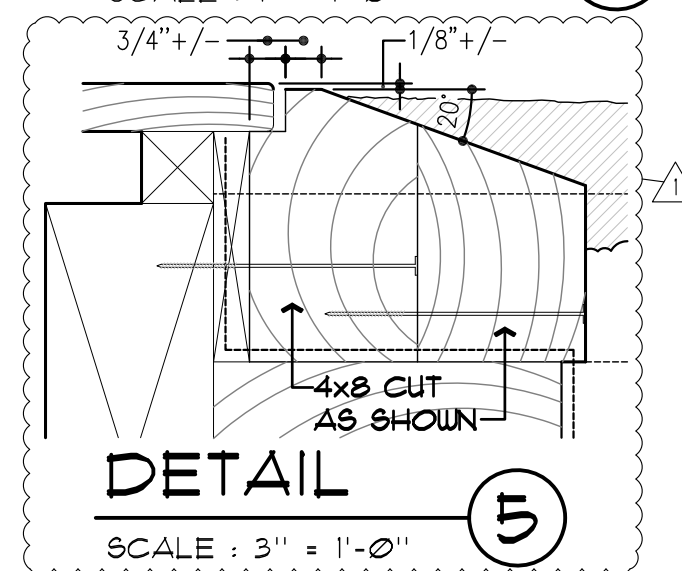
NOTE:
GLUE ALL JOINTS
ON 4x4 WHEELSTOP



ELEVATION

SCALE : 1" = 1'-0"

4



DETAIL

SCALE : 3" = 1'-0"

5



Harber Architecture, Inc.

1303 Springfield Hwy, Goodlettsville, TN 37072

Phone: 615-497-5043 Email: normharber@gmail.com

ISSUE DATE:
5/4/18

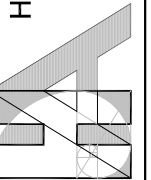
REVISIONS:
7/29/19

LAKE TRAIL BRIDGE 5
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

SHEET NUMBER
A-5



Harber Architecture, Inc.
1303 Springfield Hwy, Goodlettsville, TN 37072
Phone: 615-497-5043 Email: normharber@gmail.com

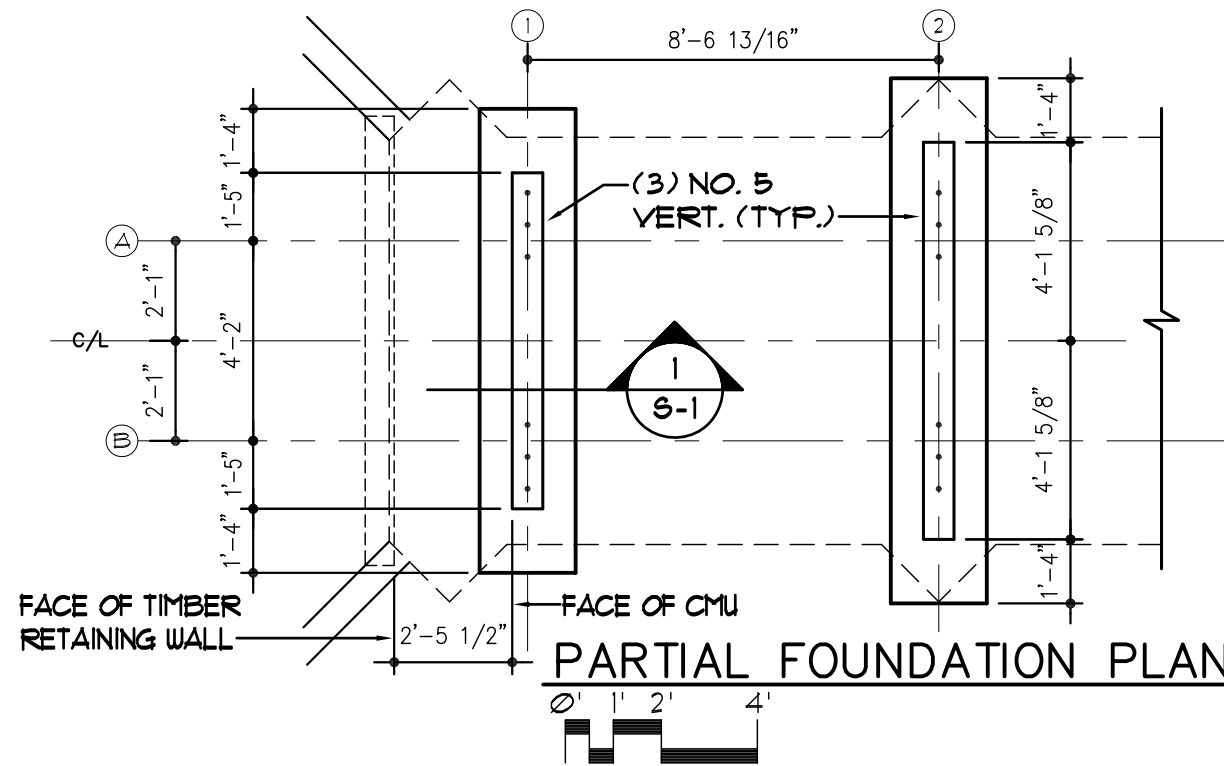


ISSUE DATE:
5/4/18

REVISIONS:
7/29/19

LAKE TRAIL BRIDGE 3
RADNOR LAKE STATE NATURAL AREA
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

SHEET NUMBER
S-1



SEE ABOVE FOR ENLARGED PLAN

8" BOND BEAM W/
(2) NO. 5 CONTIN.

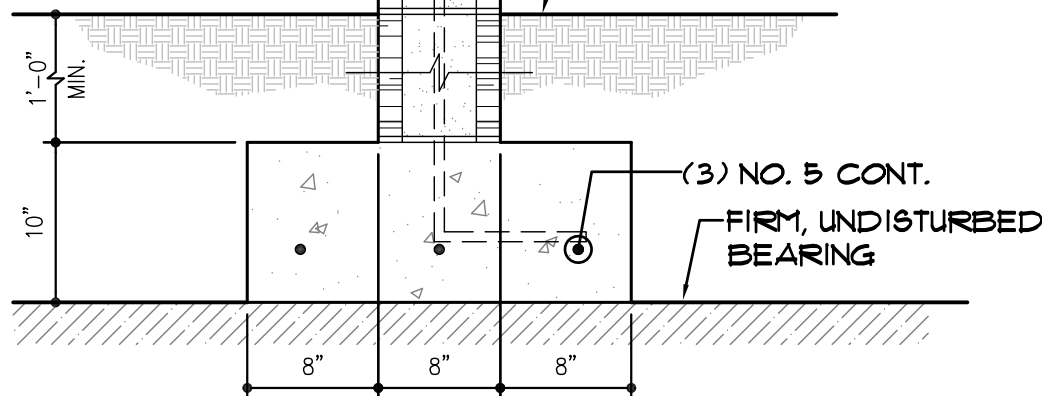
8" CMU W/ 9ga MIN.
GALV. LADDER TYPE
JOINT REINF. AT 16" O.C.
VERT.

FACE OF TIMBER
RETAINING WALL

2'-5 1/2"

SEE PLAN FOR VERT. REINF.
(GROUT CELLS SOLID)

FIN. GRADE (ELEV. VARIES)

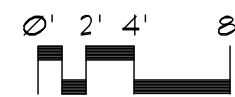


DETAIL

SCALE: 1" = 1'-0"

1

BRIDGE 5 - FOUNDATION PLAN



STRUCTURAL NOTES

CONCRETE

1. ALL CONCRETE SHALL HAVE A 28-DAY STRENGTH OF 3000 PSI.
2. ALL REINFORCEMENT BARS SHALL BE ASTM A-615, GRADE 60.
3. GROUT FOR FILLING CMU CELLS SHALL BE ASTM C-476 WITH A 28-DAY STRENGTH OF 3000 PSI.

DESIGN LOADS

1. LIVE LOAD = 100 PSF
2. VEHICLE LOAD = TOOLCAT 5600 WITH MAXIMUM WHEEL LOAD = 1800 LBS.