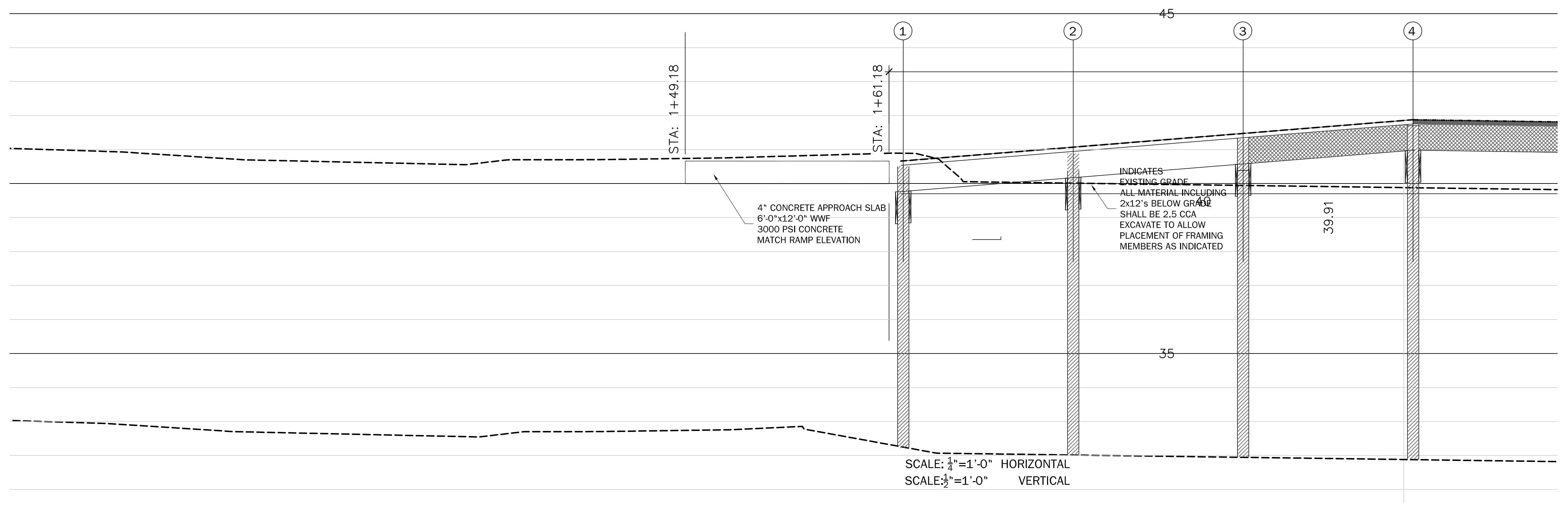
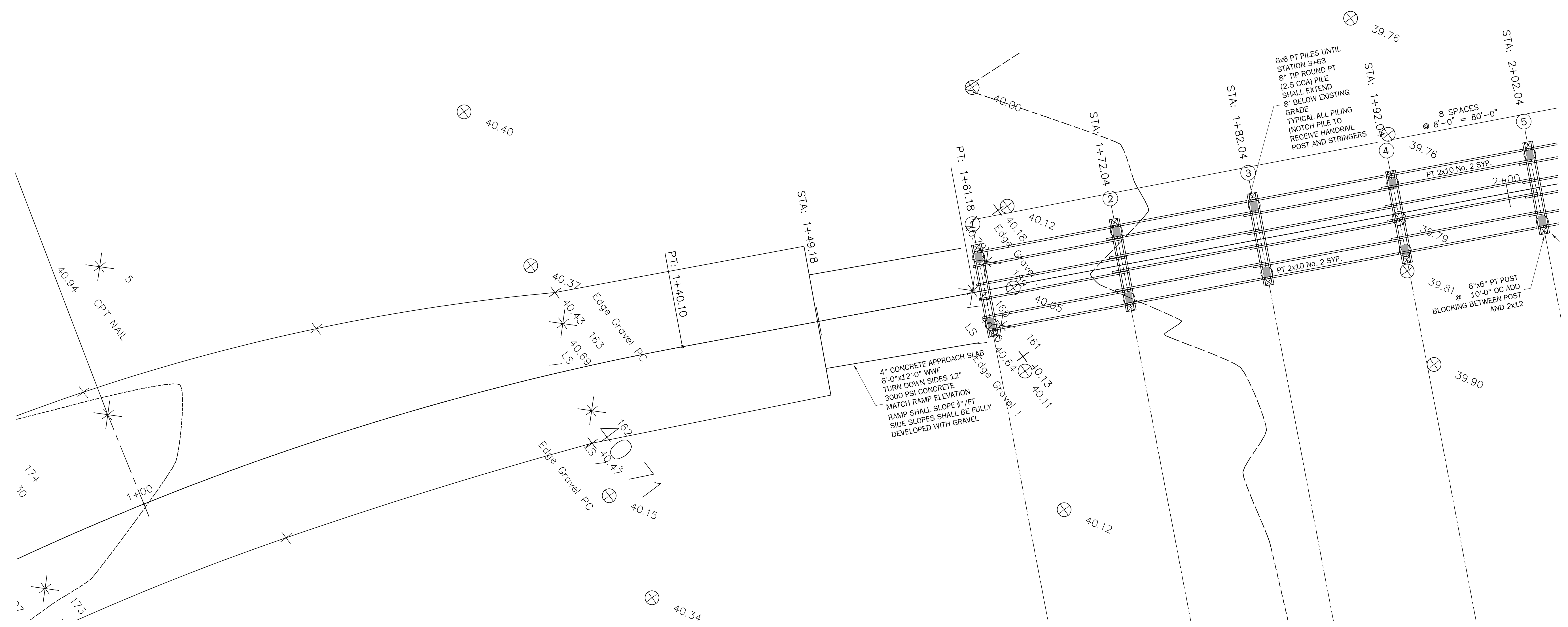
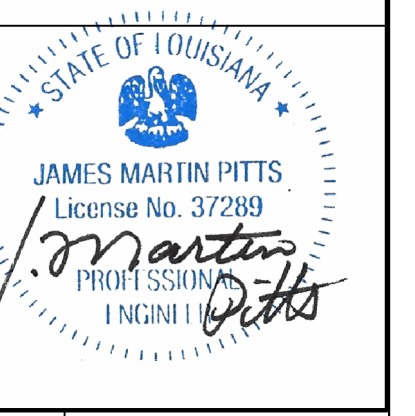


SCALE: 1/4" = 1'-0"



REV	DATE	DESCRIPTION
3	11/8/23	ISSUED GENERAL REVISION
2	10/24/23	ISSUED FOR CONSTRUCTION 4\"/>



THIS DRAWING IS THE PROPERTY OF GULF STATES ENGINEERING, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR DISCLOSED TO OTHERS IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM GULF STATES ENGINEERING, INC.

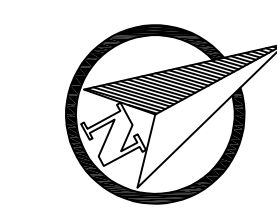
**MHM SERVICES**  
**CATAHOULA WILDLIFE REFUGE**  
**SOUTH DUCK LAKE**  
**PROPOSED BOARDWALK**

100% SUBMITTAL 11.8.23  
 100% SUBMITTAL 10.24.23  
 100% SUBMITTAL 12.12.18

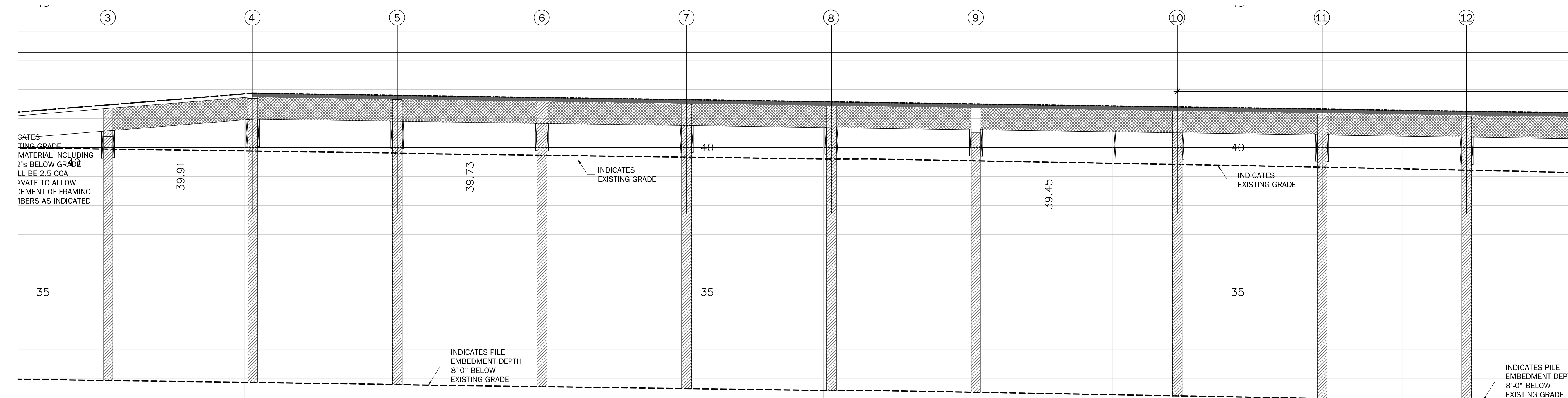
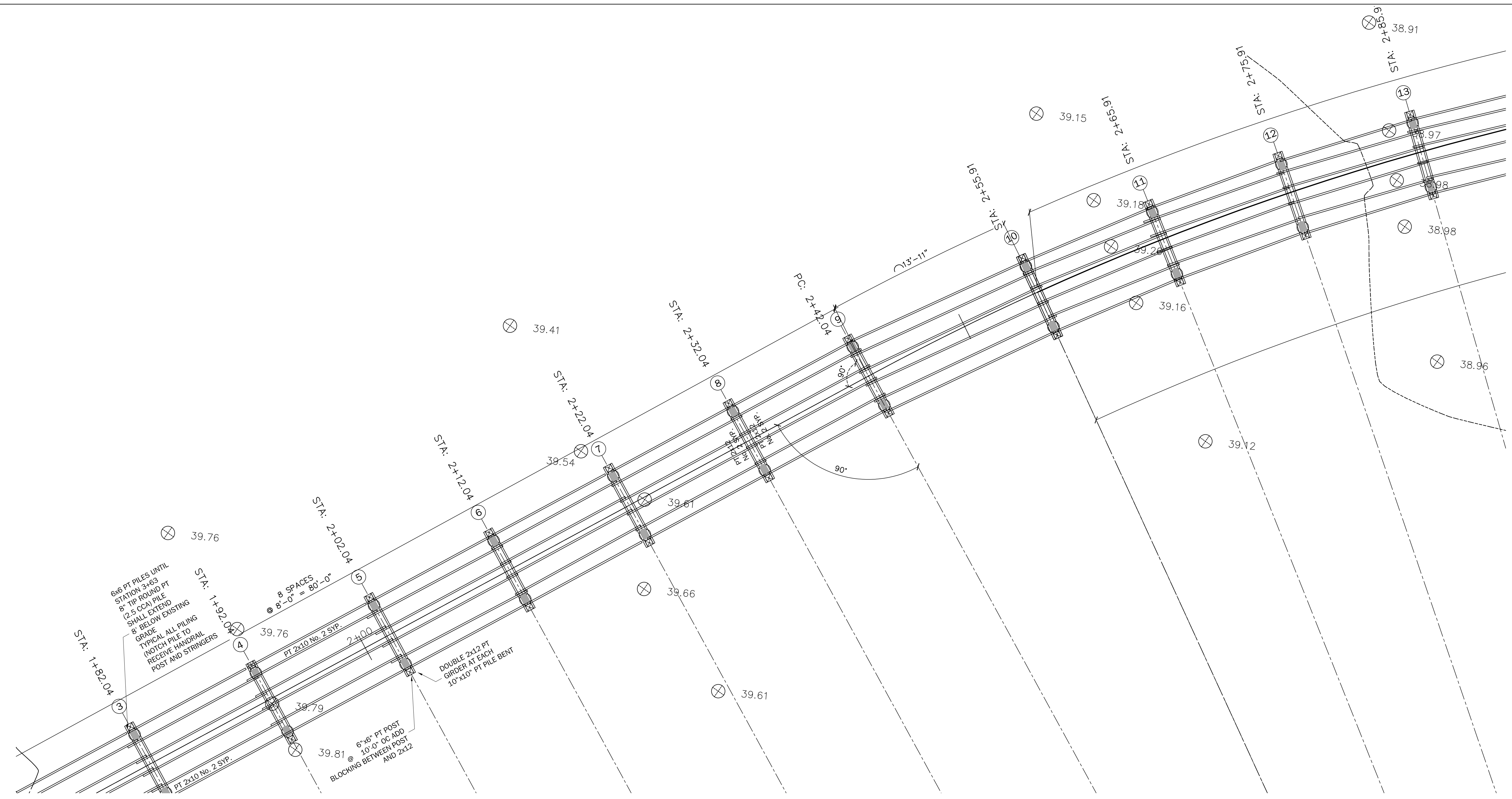
**J. Martin Pitts P.E. LLC**  
 Civil Engineering  
 Structural Engineering  
 PHONE: 251-591-6634  
 FAX: 251-990-4367

DRAWN:	THK	CHECKED:	MCR	APPROVED:	MCR
DATE:	12/12/18	SCALE:	SEE PLAN	REVISION:	1
DRAWING NUMBER:	AS18051	SCALE:	1/4" = 1'-0"	REVISION:	A



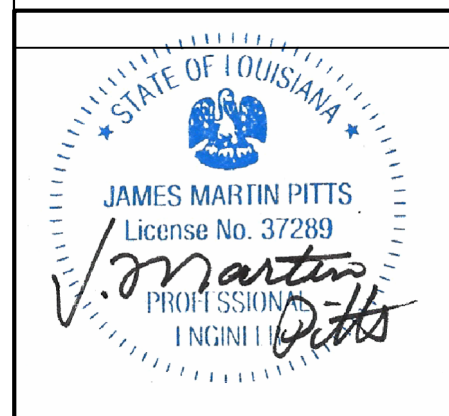


SCALE: 1/4" = 1'-0"



SCALE: 1/4" = 1'-0" HORIZONTAL  
SCALE: 1/2" = 1'-0" VERTICAL

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY
3	11/8/23	ISSUED GENERAL REVISION			
2	10/24/23	ISSUED FOR CONSTRUCTION 4" SLAB			
1	10/21/23	ISSUED FOR CONSTRUCTION 100%			
C	11/7/18	98% REVIEW			
B	10/24/18	95% REVIEW			
A	09/11/18	ISSUED FOR REVIEW			



THIS DRAWING IS THE PROPERTY OF GULF STATES ENGINEERING, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON AND IS NOT TO BE REPRODUCED, COPIED, OR DISCLOSED TO OTHERS IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM GULF STATES ENGINEERING, INC.

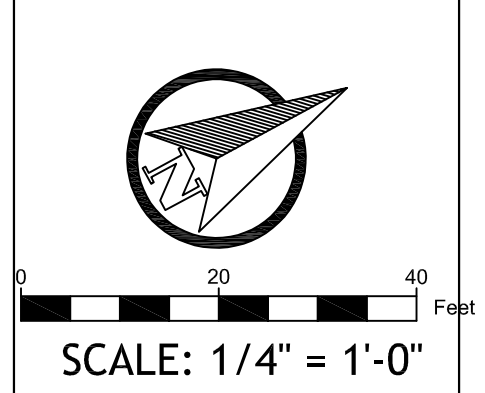
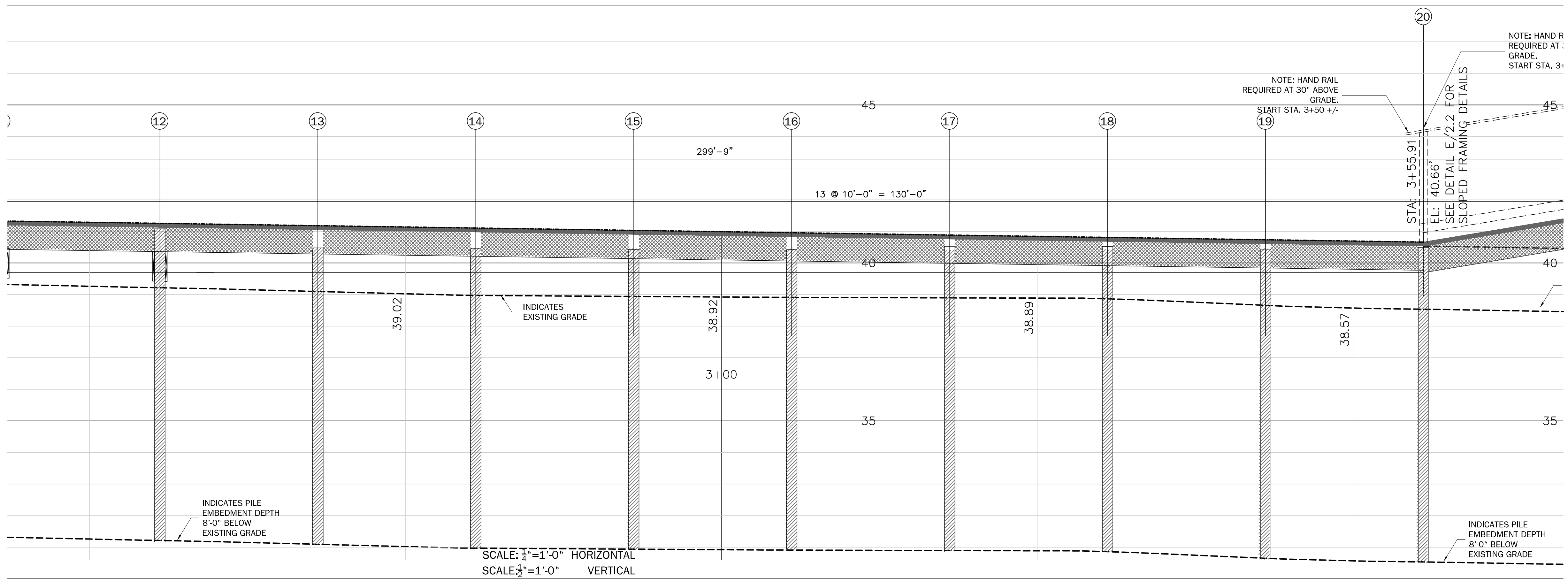
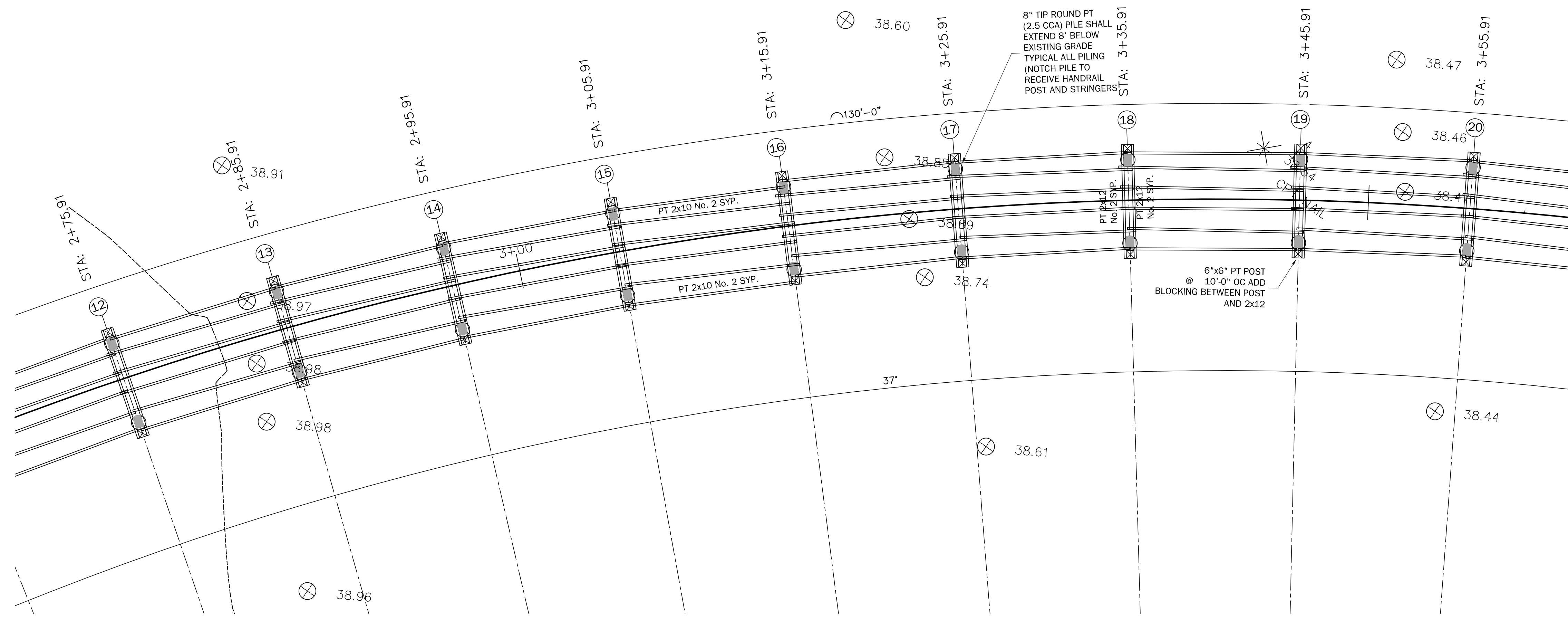
**MHM SERVICES**  
 CATAHOULA WILDLIFE REFUGE  
 SOUTH DUCK LAKE  
 PROPOSED BOARDWALK

100% SUBMITTAL 11.8.23  
 100% SUBMITTAL 10.24.23  
 100% SUBMITTAL 12.12.18

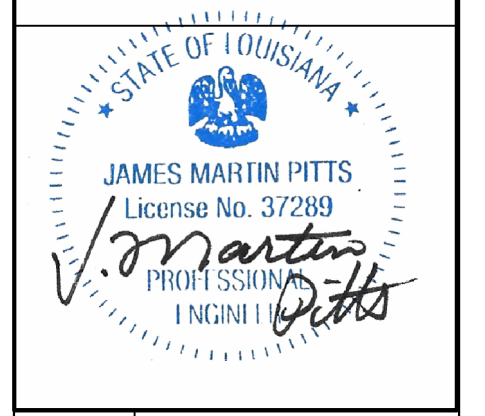
**J. Martin Pitts P.E. LLC**  
 Civil Engineering  
 Structural Engineering  
 PHONE: 251-591-6634  
 FAX: 251-990-4367

DRAWN:	THK	CHECKED:	MCR	APPROVED:	MCR
DATE:	12/12/18	SCALE:	SEE PLAN	REVISION:	
DRAWING NUMBER:	AS18051	REVISION:	1		A





REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY
3	11/8/23	ISSUED GENERAL REVISION			
2	10/24/23	ISSUED FOR CONSTRUCTION 4" SLAB			
1	10/21/23	ISSUED FOR CONSTRUCTION 100%			
C	11/7/18	98% REVIEW			
B	10/24/18	95% REVIEW			
A	09/11/18	ISSUED FOR REVIEW			



THIS DRAWING IS THE PROPERTY OF GULF STATES ENGINEERING, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON AND IS NOT TO BE REPRODUCED, COPIED, OR DISCLOSED TO OTHERS IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM GULF STATES ENGINEERING, INC.

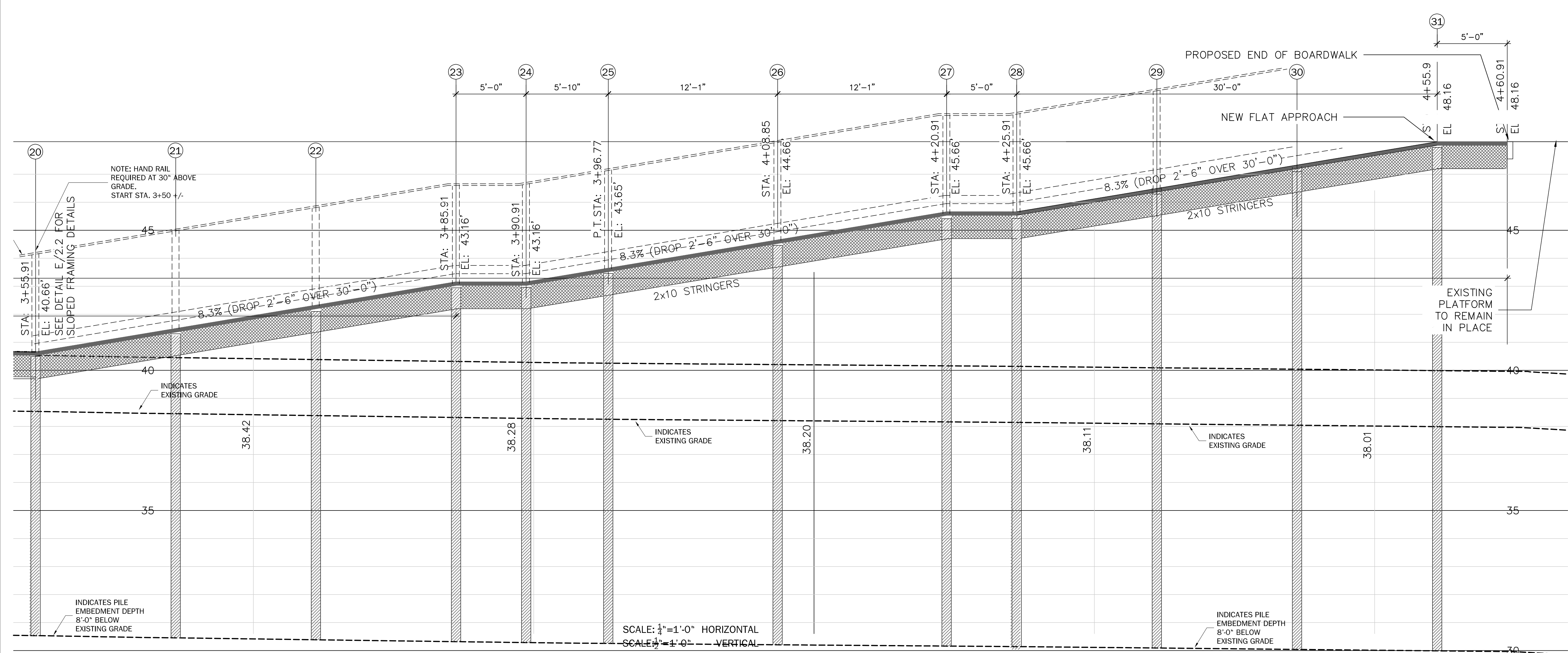
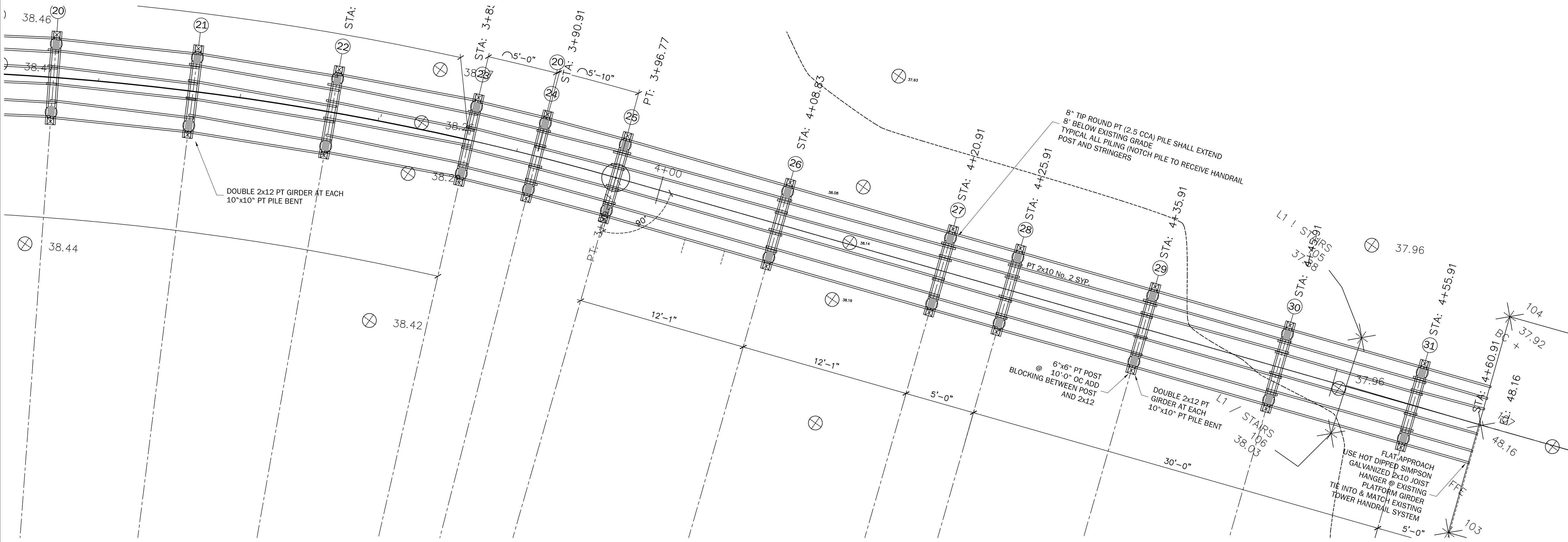
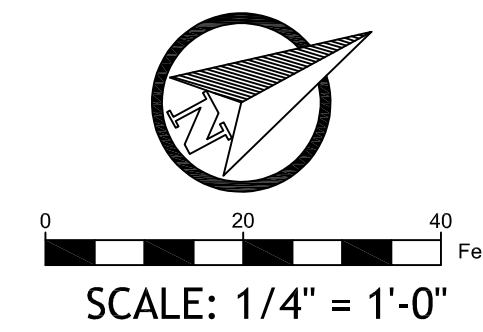
**MHM SERVICES**  
 CATAHOULA WILDLIFE REFUGE  
 SOUTH DUCK LAKE  
 PROPOSED BOARDWALK

100% SUBMITTAL 11.8.23  
 100% SUBMITTAL 10.24.23  
 100% SUBMITTAL 12.12.18

**J. Martin Pitts P.E. LLC**  
 Civil Engineering  
 Structural Engineering  
 PHONE: 251-591-6634  
 FAX: 251-990-4367

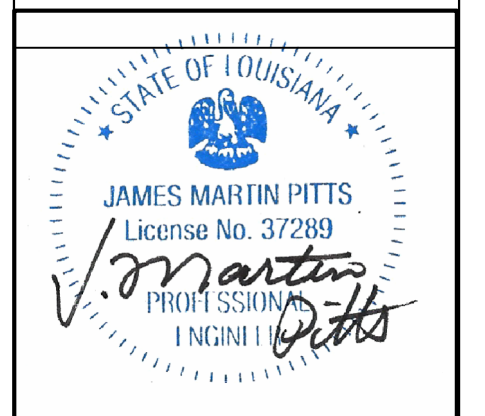
DRAWN:	THK	CHECKED:	MCR	APPROVED:	MCR
DATE:	12/12/18	SCALE:	SEE PLAN	REVISION:	
DRAWING NUMBER:	AS18051	SCALE:	1/4" = 1'-0"	REVISION:	c1.3 A





SCALE: 1/4" = 1'-0" HORIZONTAL  
SCALE: 1/2" = 1'-0" VERTICAL

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY
3	11/8/23	ISSUED GENERAL REVISION			
2	10/24/23	ISSUED FOR CONSTRUCTION 4" SLAB			
1	10/21/23	ISSUED FOR CONSTRUCTION 100%			
C	11/7/18	98% REVIEW			
B	10/24/18	95% REVIEW			
A	09/11/18	ISSUED FOR REVIEW			



THIS DRAWING IS THE PROPERTY OF GULF STATES ENGINEERING, INC. AND IS TO BE USED ONLY FOR THE PROJECT AND PURPOSE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR DISCLOSED TO OTHERS IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM GULF STATES ENGINEERING, INC.

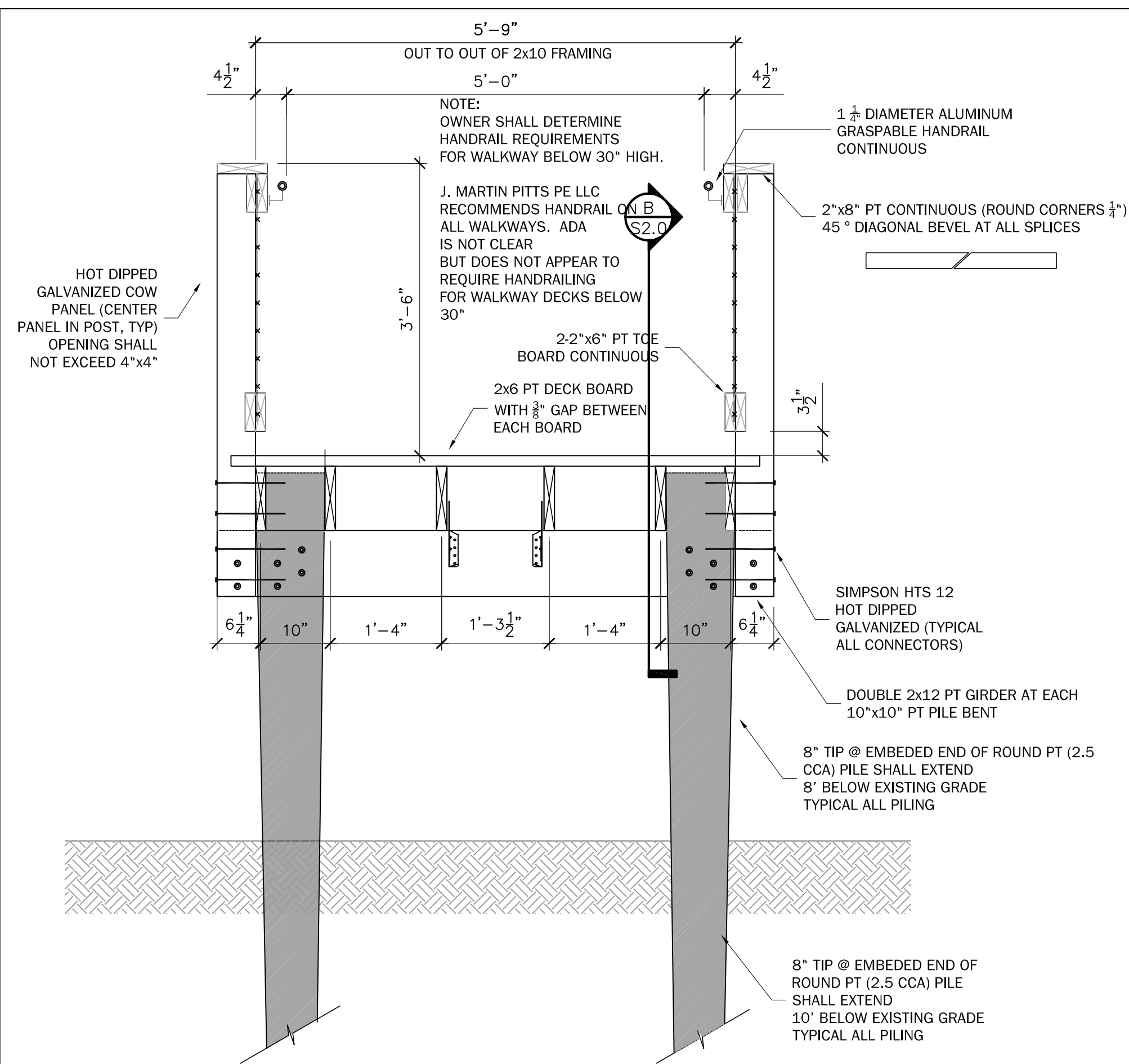
**MHM SERVICES**  
CATAHOULA WILDLIFE REFUGE  
SOUTH DUCK LAKE  
PROPOSED BOARDWALK

100% SUBMITTAL 11.8.23  
100% SUBMITTAL 10.24.23  
100% SUBMITTAL 12.12.18

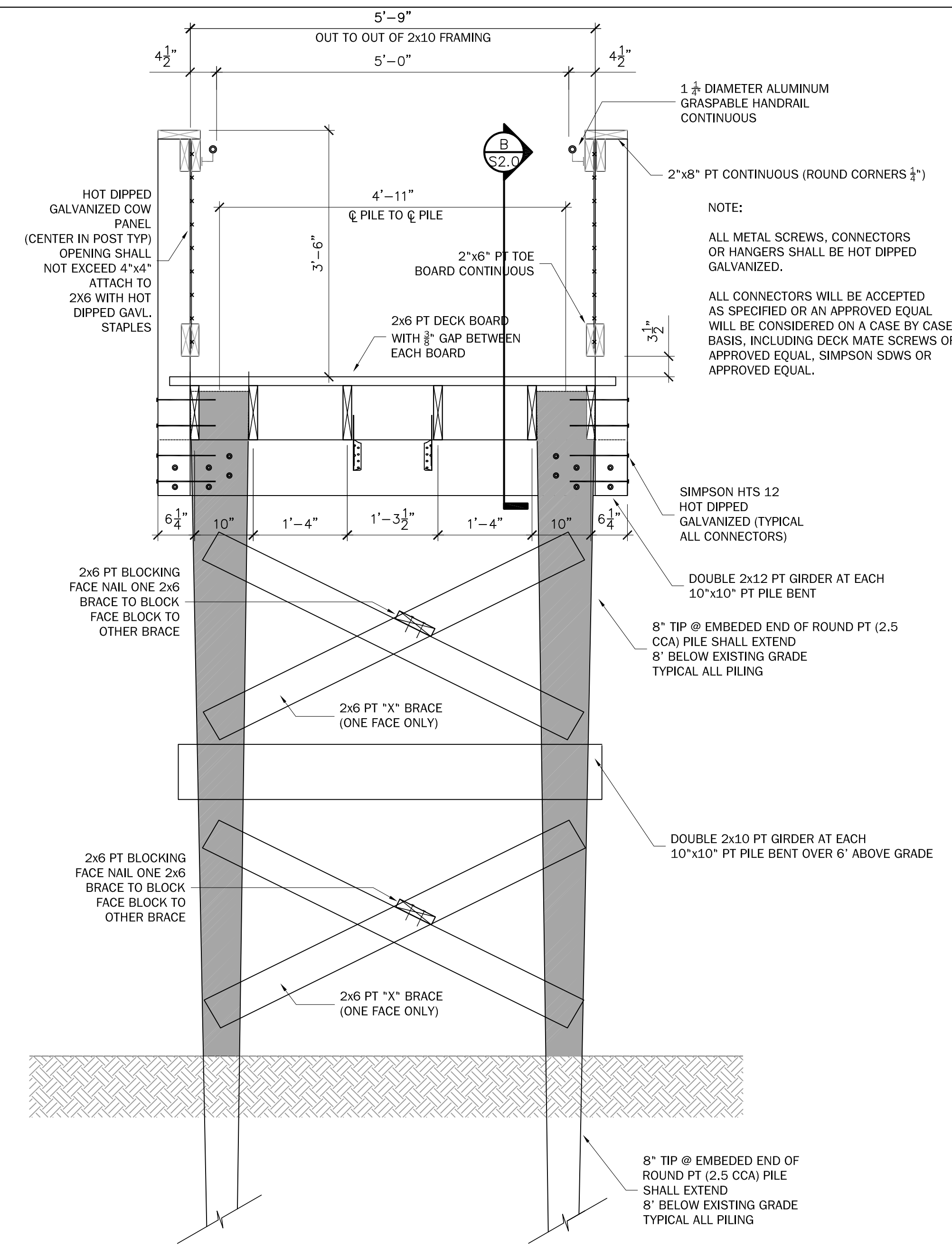
**J. Martin Pitts P.E. LLC**  
Civil Engineering  
Structural Engineering  
PHONE: 251-591-6634  
FAX: 251-990-4367

DRAWN:	THK	CHECKED:	MCR	APPROVED:	MCR
DATE:	12/12/18	SCALE:	SEE PLAN	REVISION:	
DRAWING NUMBER:	AS18051	SCALE:	1:4	REVISION:	A

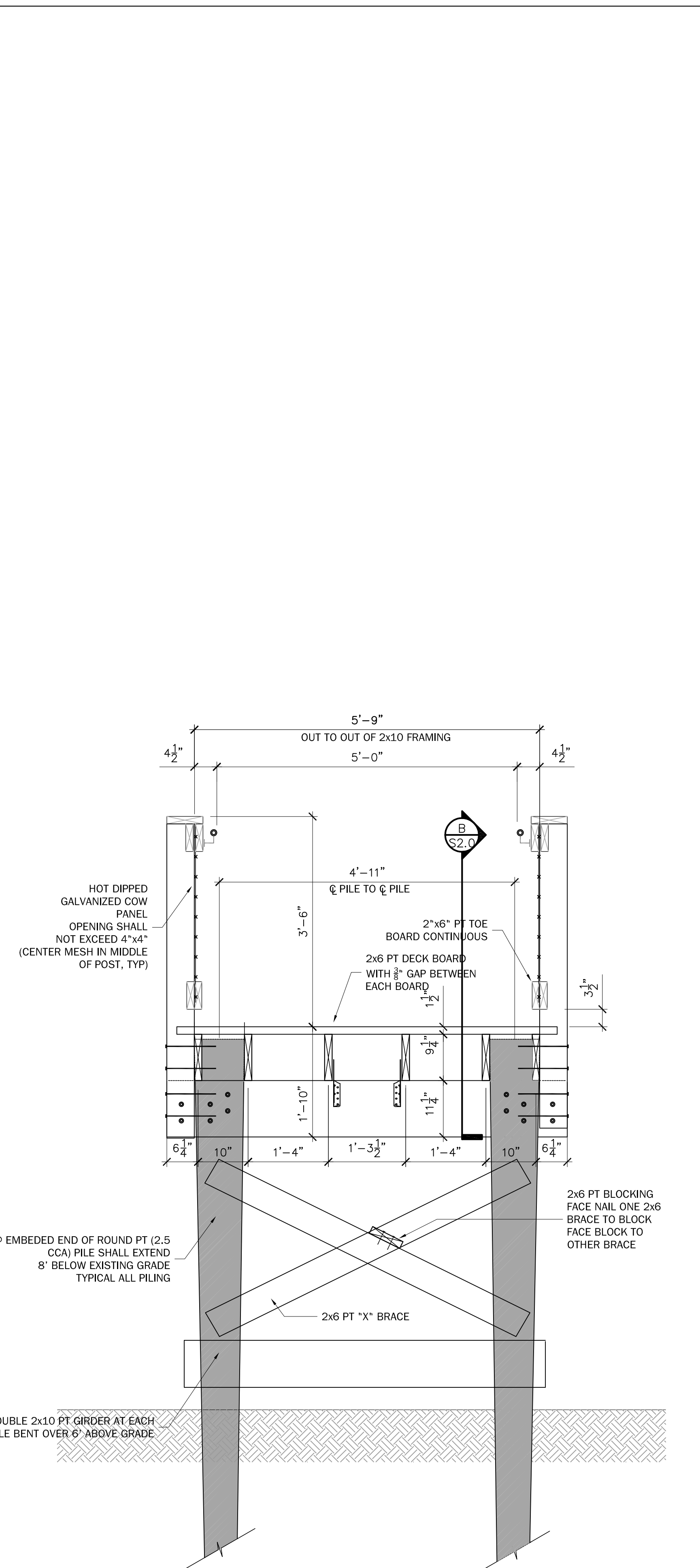




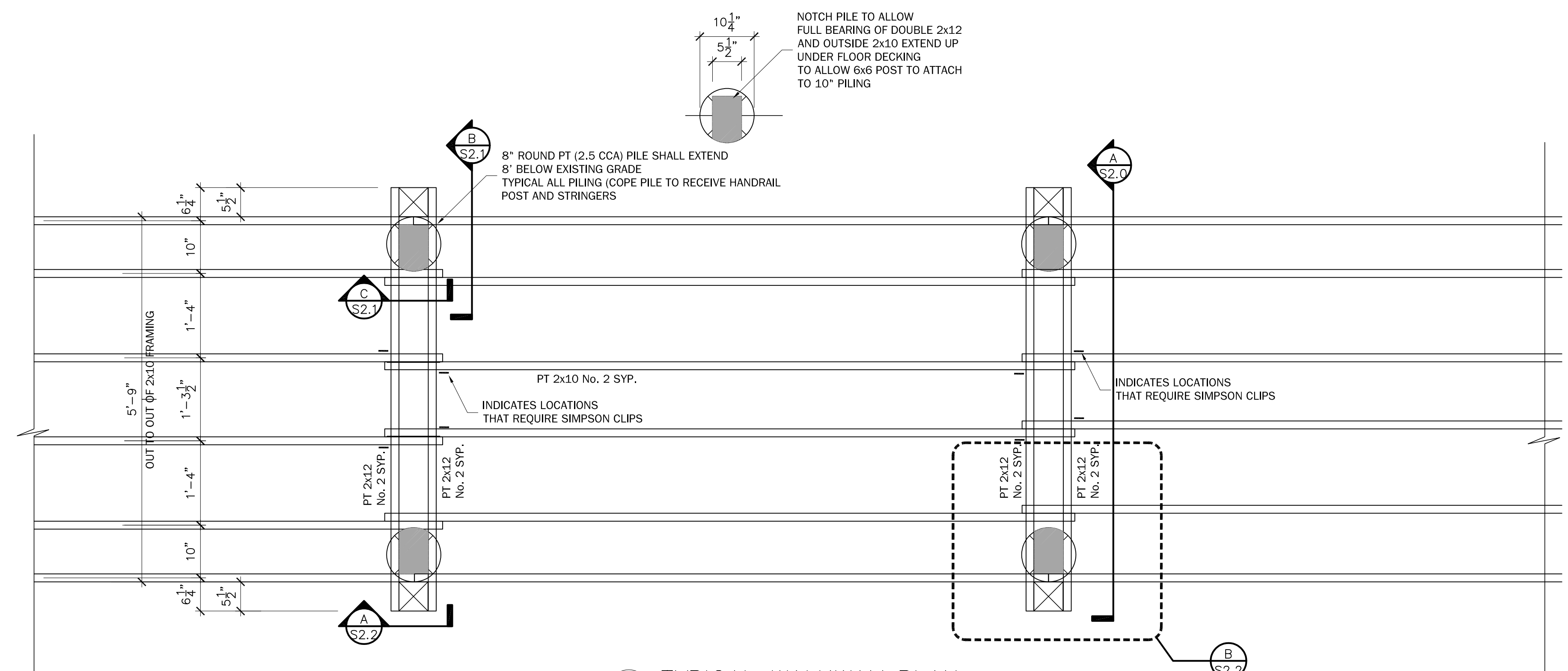
**A** SECTION BETWEEN 10" ROUND PILE BENT  
Scale=3/4"=1'-0"



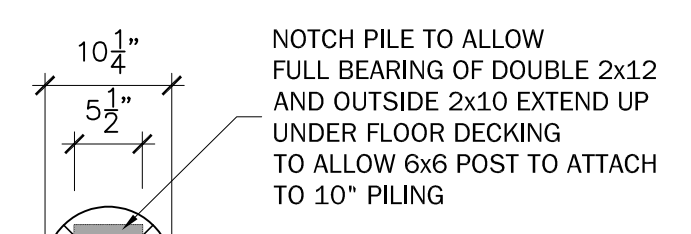
**B** SECTION OVER 8' ABOVE GRADE  
Scale=3/4"=1'-0"



**D** SECTION LESS THAN 8' ABOVE GRADE  
Scale=3/4"=1'-0"



**C** TYPICAL WALKWAY PLAN  
Scale=3/4"=1'-0"



REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY
3	11/8/23	ISSUED GENERAL REVISION			
2	10/24/23	ISSUED FOR CONSTRUCTION 4" SLAB			
1	10/21/23	ISSUED FOR CONSTRUCTION 100%			
C	11/7/18	REVIEW			
B	10/24/18	95% REVIEW			
A	09/11/18	ISSUED FOR REVIEW			

 <b>GSE</b> CONSULTING ENGINEERS Gulfport Mobile Nashville 600 Azalea Road Mobile, AL 36609 (T)251-460-4646 (F)251-460-4649	 <b>JAMES MARTIN PITTS</b> PROFESSIONAL ENGINEER LICENSE NO. 37293
--	---

<b>MHM SERVICES</b> CATAHOULA WILDLIFE REFUGE SOUTH DUCK LAKE PROPOSED BOARDWALK	THIS DRAWING IS THE PROPERTY OF GULF STATES ENGINEERING, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR DISCLOSED TO OTHERS IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM GULF STATES ENGINEERING, INC.
---	---

100% SUBMITTAL 11.8.23 100% SUBMITTAL 10.24.23 100% SUBMITTAL 12.12.18	<b>J. Martin Pitts P.E. LLC</b> Civil Engineering Structural Engineering PHONE: 251-591-6634 FAX: 251-990-4367
--	--

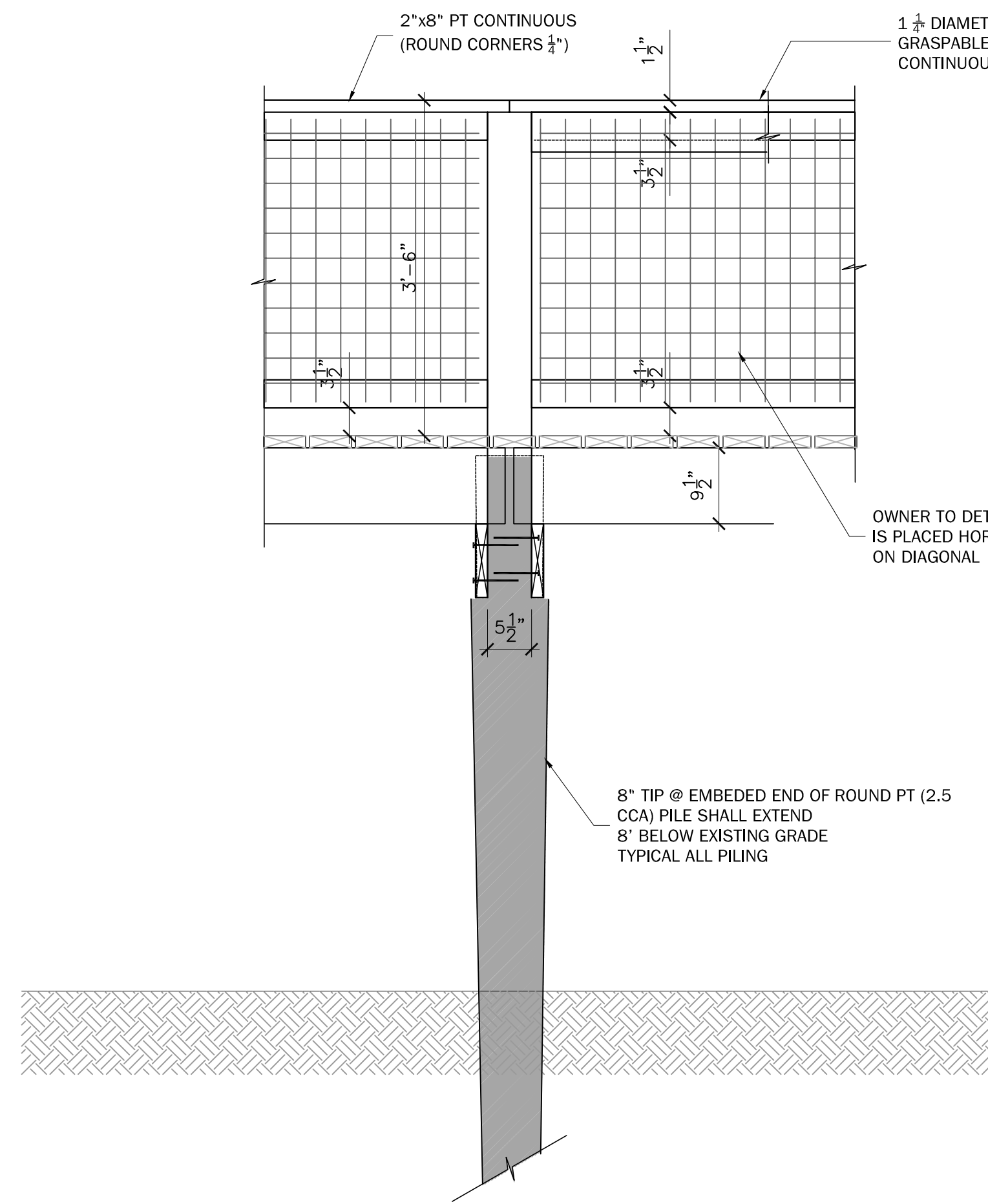
  

DRAWN: THK CHECKED: MCR APPROVED: MCR	DATE: 12/12/18 SCALE: SEE PLAN
---	-----------------------------------

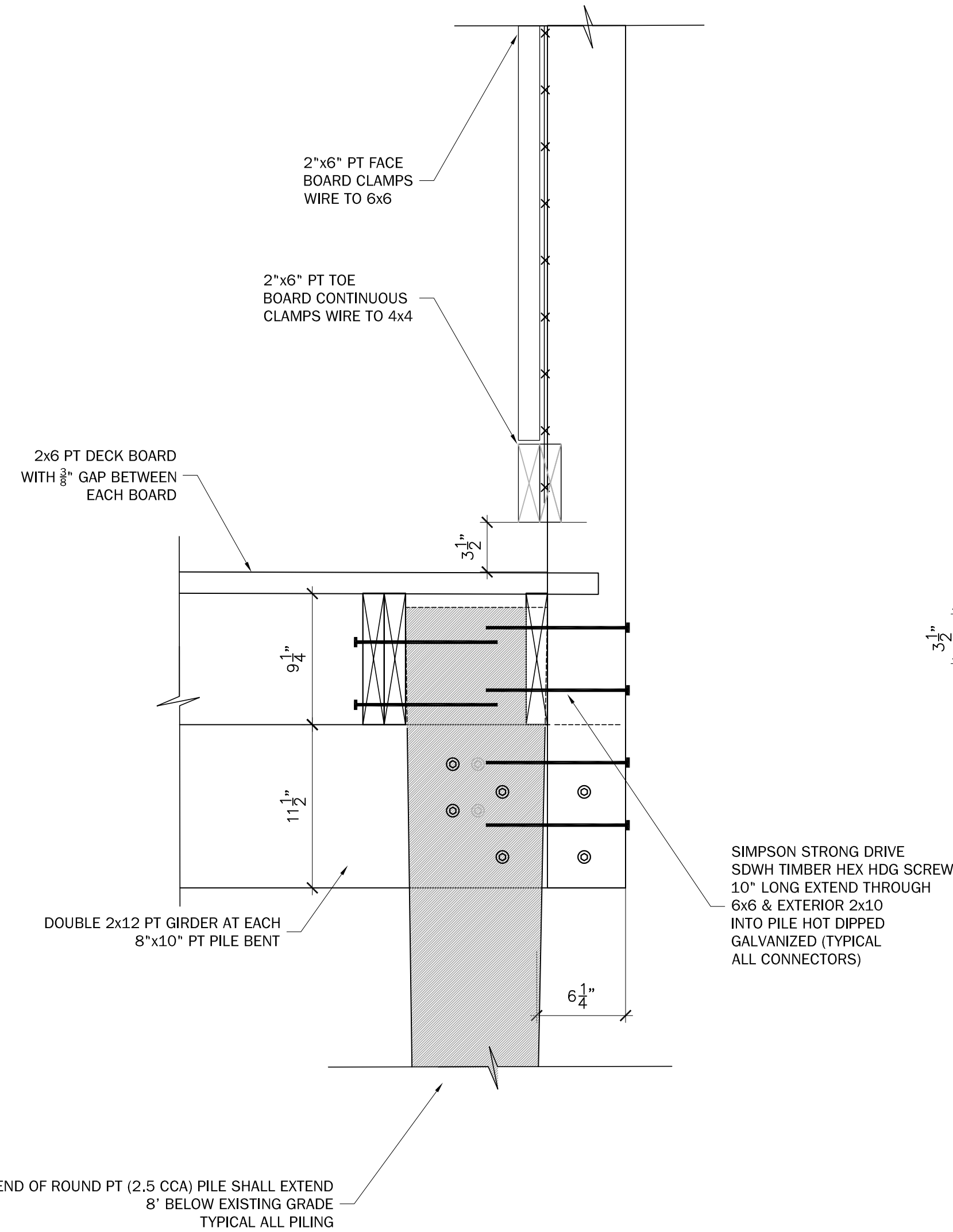
  

DRAWING NUMBER: AS18051	REVISION: s2.0 A
-------------------------	---------------------

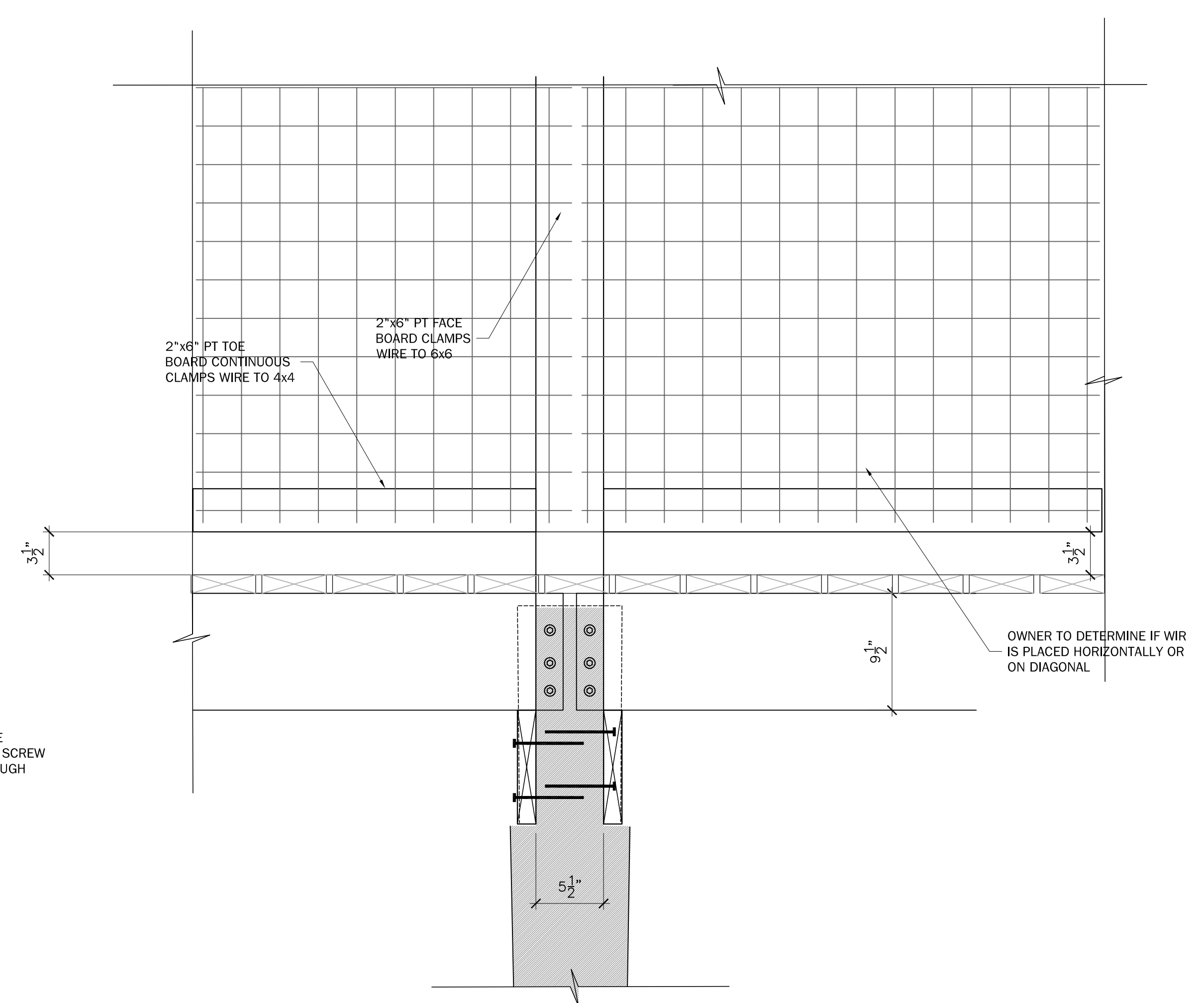




**A** SECTION @ DOUBLE 2x12 PT GIRDER  
S2.1 Scale=3/4"=1'-0"



**B** SECTION @ 8" TIP ROUND PILE BENT  
S2.1 Scale=1 1/2"=1'-0"



**C** SECTION @ 8" TIP ROUND PILE BENT  
S2.1 Scale=1 1/2"=1'-0"



**D** HOT DIPPED COW WIRE ATTACHMENT  
S2.1 Scale=3/4"=1'-0"



**E** EXISTING TOWER TO REMAIN  
S2.1 Scale=3/4"=1'-0"



**F** REMOVE ALL EXISTING PILING & FRAMING FROM SITE  
S2.1 Scale=3/4"=1'-0"

NOTE:  
OWNER SHALL DETERMINE  
HANDRAIL REQUIREMENTS  
FOR WALKWAY BELOW 30" HIGH.  
  
J. MARTIN PITTS PE LLC  
REQUIRES HANDRAIL ON  
ALL WALKWAYS. ADA  
IS NOT CLEAR  
BUT DOES NOT APPEAR TO  
REQUIRE HANDRAILING  
FOR WALKWAY DECKS BELOW  
30"

CONTRACTOR SHALL NOT REMOVE  
ANY TREES WITHOUT REFUGE MANAGER  
APPROVAL  
  
ALL DAMAGED TREES SHALL BE  
PROPERLY TRIMMED AND MAINTAINED  
ALIVE

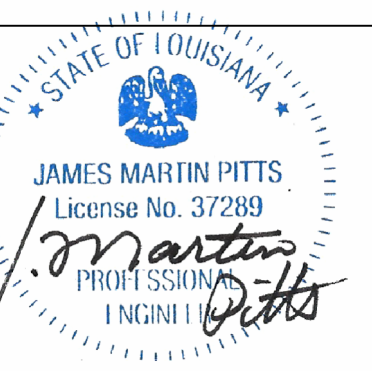
1 1/4" DIAMETER ALUMINUM  
HANDRAIL WITH RETURN  
AS SHOWN

CONTRACTOR SHALL REMOVE ALL EXISTING  
PILING EXCEPT TOWER STRUCTURE  
AND FRAMING MATERIAL FROM THE SITE



**G** 1 1/4" DIA. HANDRAIL & RETURN  
S2.1 Scale=3/4"=1'-0"

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY
3	11/8/23	ISSUED GENERAL REVISION			
2	10/24/23	ISSUED FOR CONSTRUCTION 4" SLAB			
1	10/21/23	ISSUED FOR CONSTRUCTION 100%			
C	11/7/18	98% REVIEW			
B	10/24/18	95% REVIEW			
A	09/11/18	ISSUED FOR REVIEW			



THIS DRAWING IS THE PROPERTY OF GULF STATES ENGINEERING, INC. ANY REUSE, REPRODUCTION, OR DISSEMINATION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION FROM GULF STATES ENGINEERING, INC. IS PROHIBITED. THIS DRAWING AND THE PROJECT IT REPRESENTS ARE THE PROPERTY OF GULF STATES ENGINEERING, INC. AND ARE NOT TO BE USED, REPRODUCED, COPIED, OR DISCLOSED TO OTHERS IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM GULF STATES ENGINEERING, INC.

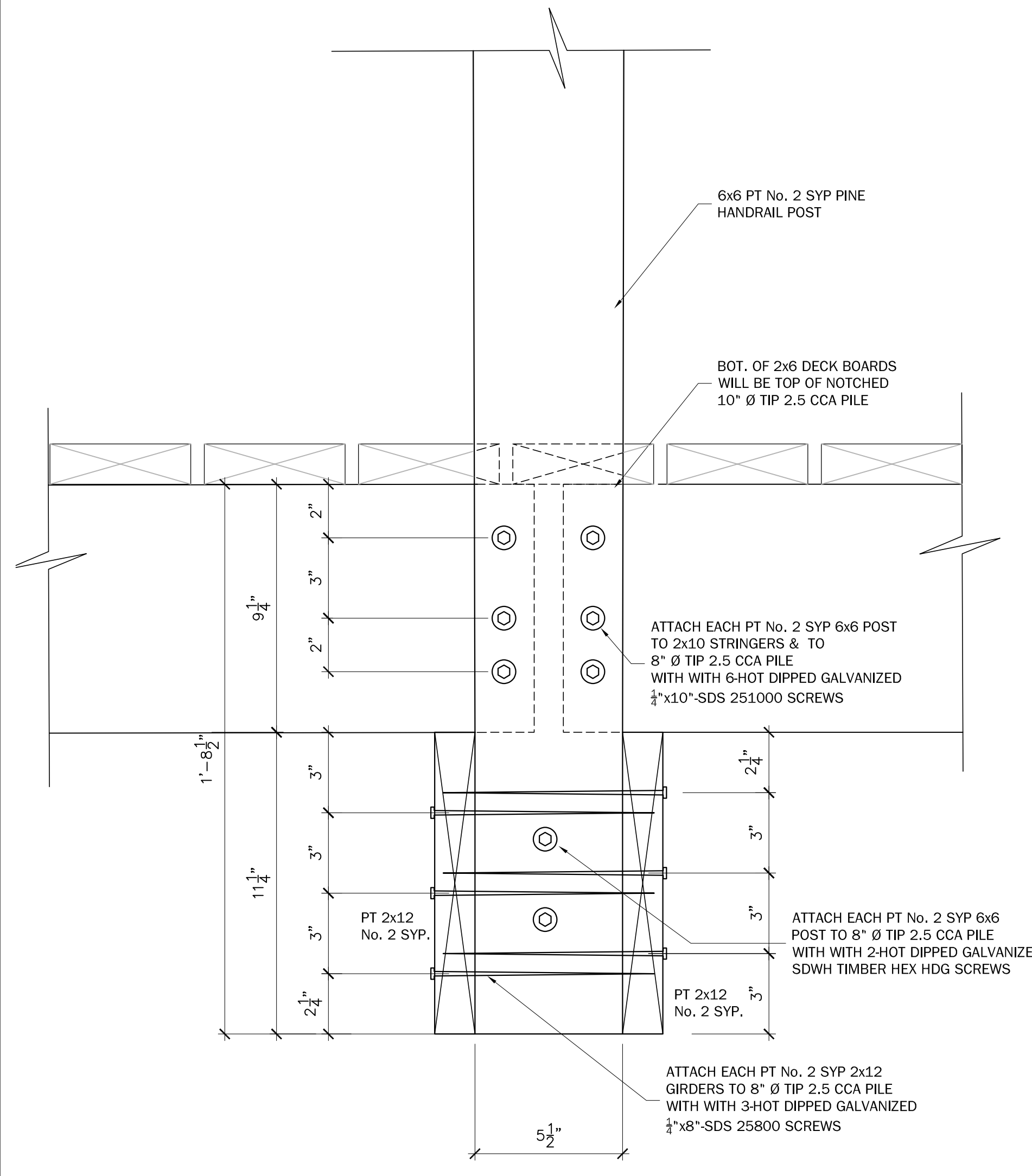
**MHM SERVICES**  
CATAHOULA WILDLIFE REFUGE  
SOUTH DUCK LAKE  
PROPOSED BOARDWALK

100% SUBMITTAL 11.8.23  
100% SUBMITTAL 10.24.23  
100% SUBMITTAL 12.12.18

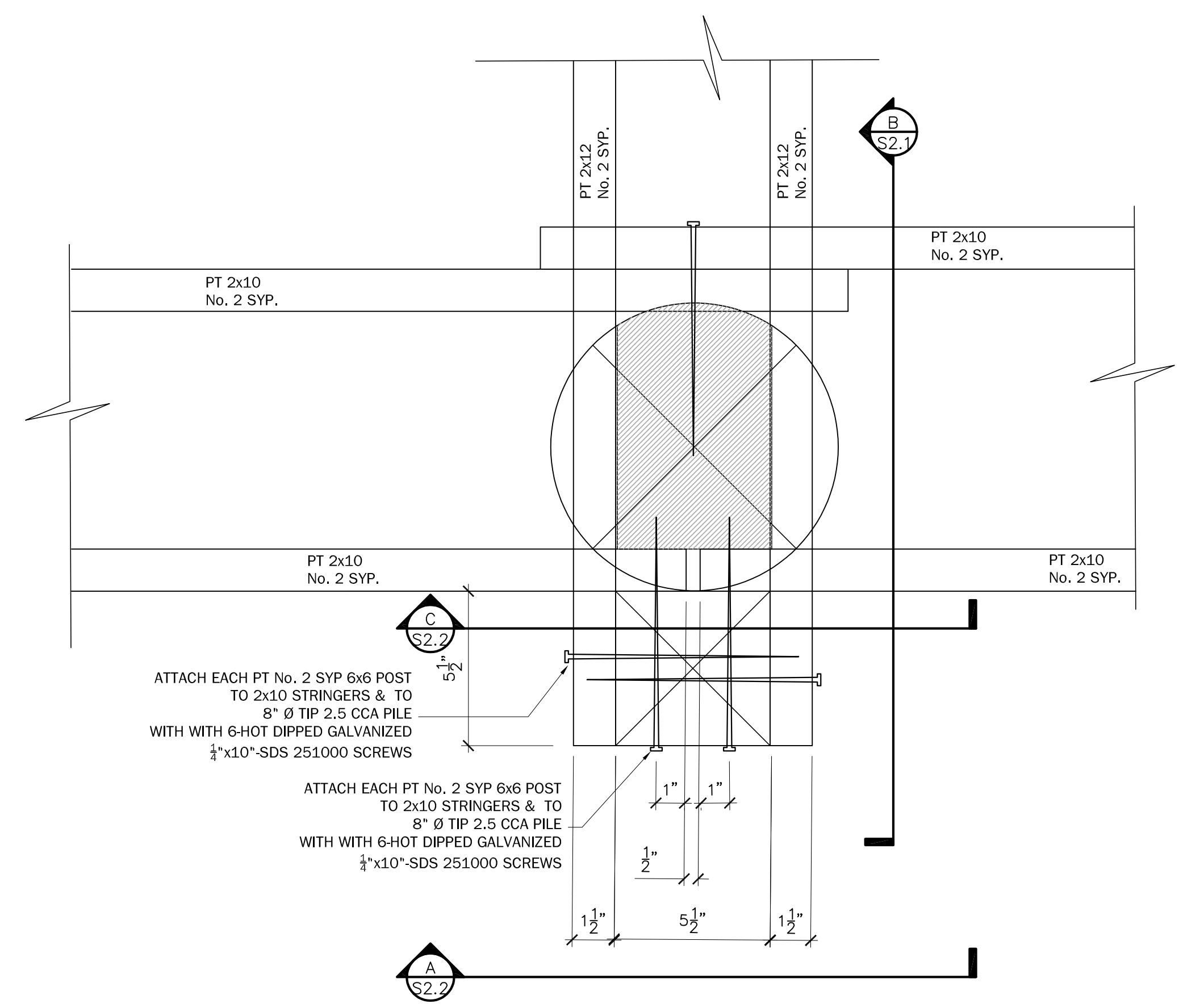
**J. Martin Pitts P.E. LLC**  
Civil Engineering  
Structural Engineering  
PHONE: 251-591-6634  
FAX: 251-990-4367

DRAWN	CHECKED	APPROVED
THK	MCR	MCR
DATE: 12/12/18	SCALE: SEE PLAN	REVISION: A
DRAWING NUMBER: AS18051		

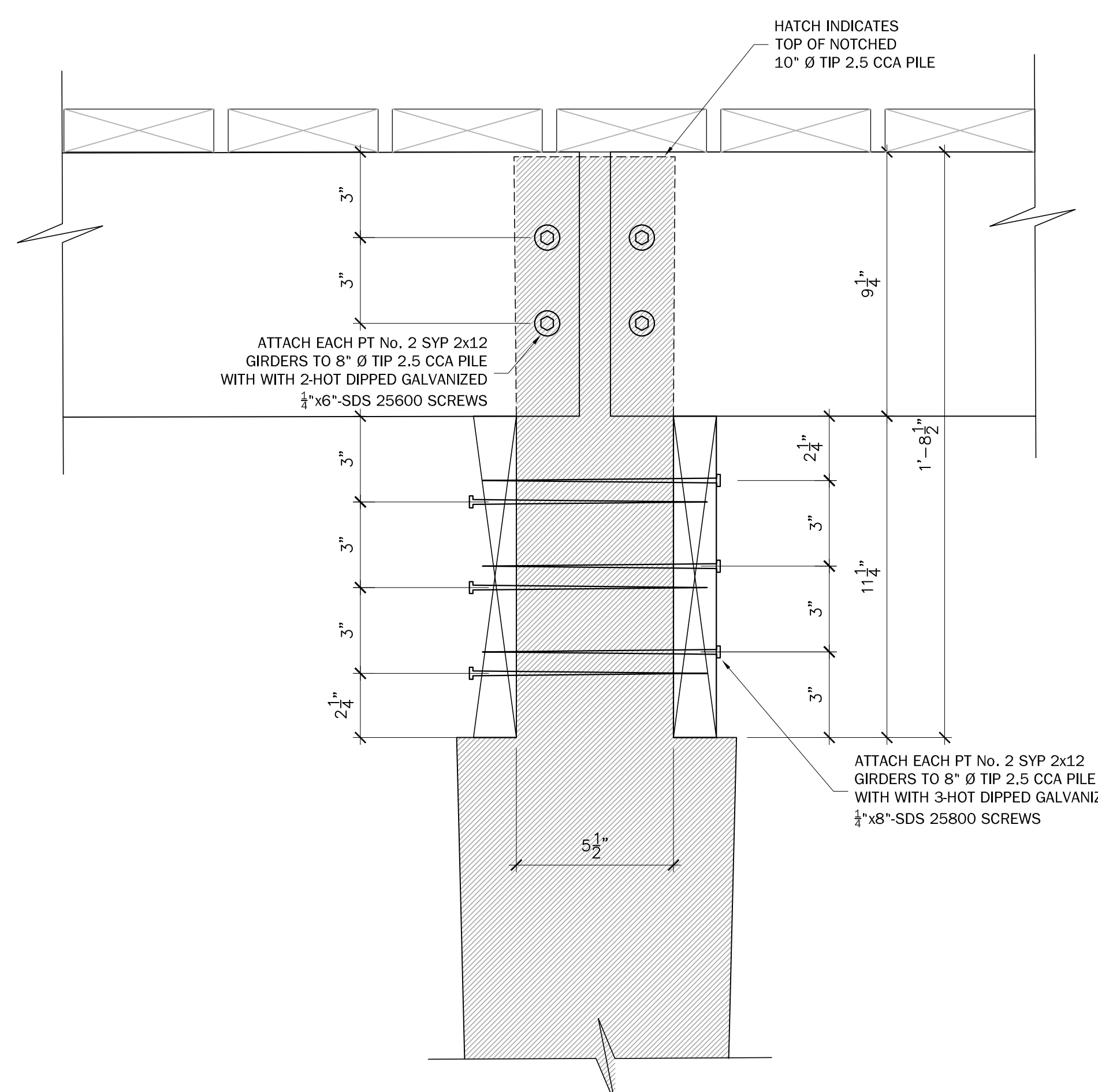




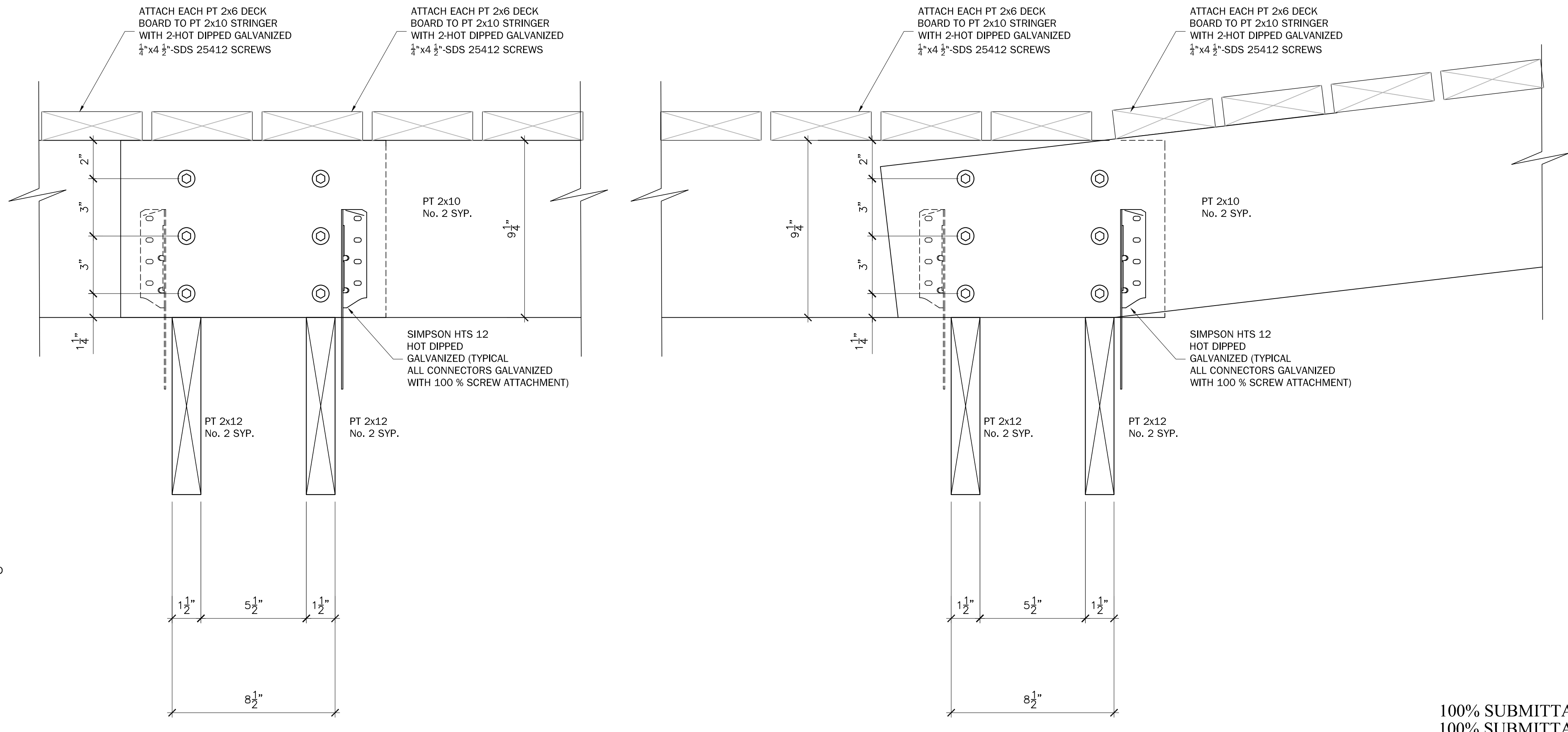
**A SECTION @ 6x6 HAND RAIL POST**  
S2.2 Scale=3"=1'-0"



**B PLAN @ 6x6 HAND RAIL POST**  
S2.2 Scale=3"=1'-0"



**C SECTION @ 10\"/>**

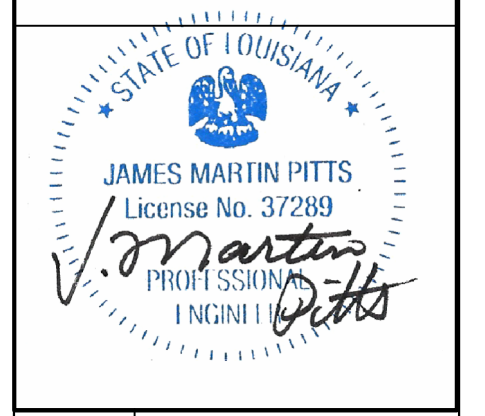


**D DETAIL AT LEVEL STRINGER BEARING POINT (FLAT)**  
S2.2 Scale=3"=1'-0"

**E DETAIL AT SLOPING STRINGER BEARING POINT (SLOPE)**  
S2.2 Scale=3"=1'-0"

100% SUBMITTAL 11.8.23  
100% SUBMITTAL 10.24.23  
100% SUBMITTAL 12.12.18  
**J. Martin Pitts P.E. LLC**  
Civil Engineering  
Structural Engineering  
PHONE: 251-591-6634  
FAX: 251-590-4367

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY
3	11/8/23	ISSUED GENERAL REVISION			
2	10/24/23	ISSUED FOR CONSTRUCTION 4" SLAB			
1	10/21/23	ISSUED FOR CONSTRUCTION 100%			
C	11/7/18	98% REVIEW			
B	10/24/18	95% REVIEW			
A	09/11/18	ISSUED FOR REVIEW			

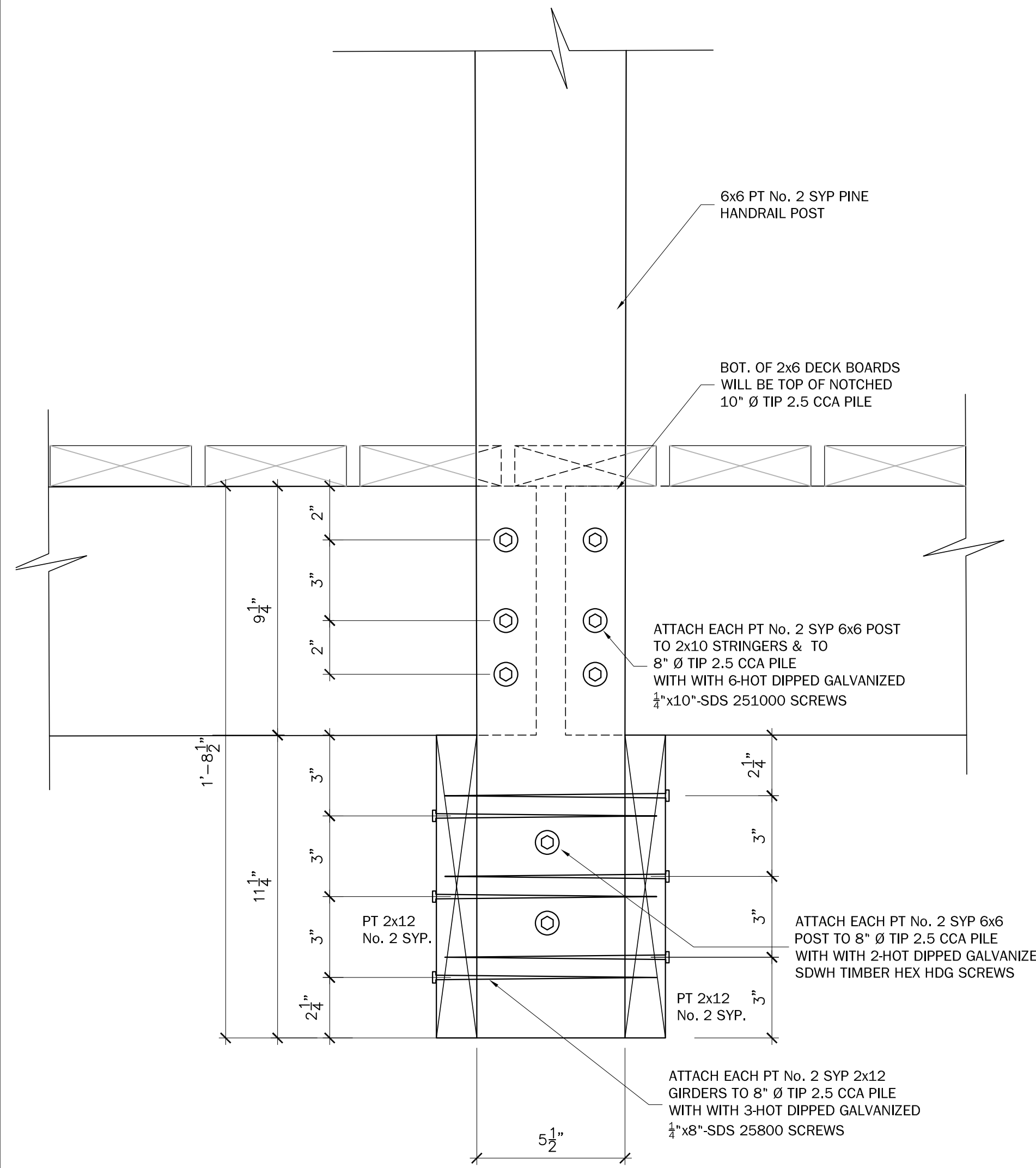


THIS DRAWING IS THE PROPERTY OF GULF STATES ENGINEERING, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR DISCLOSED TO OTHERS IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM GULF STATES ENGINEERING, INC.

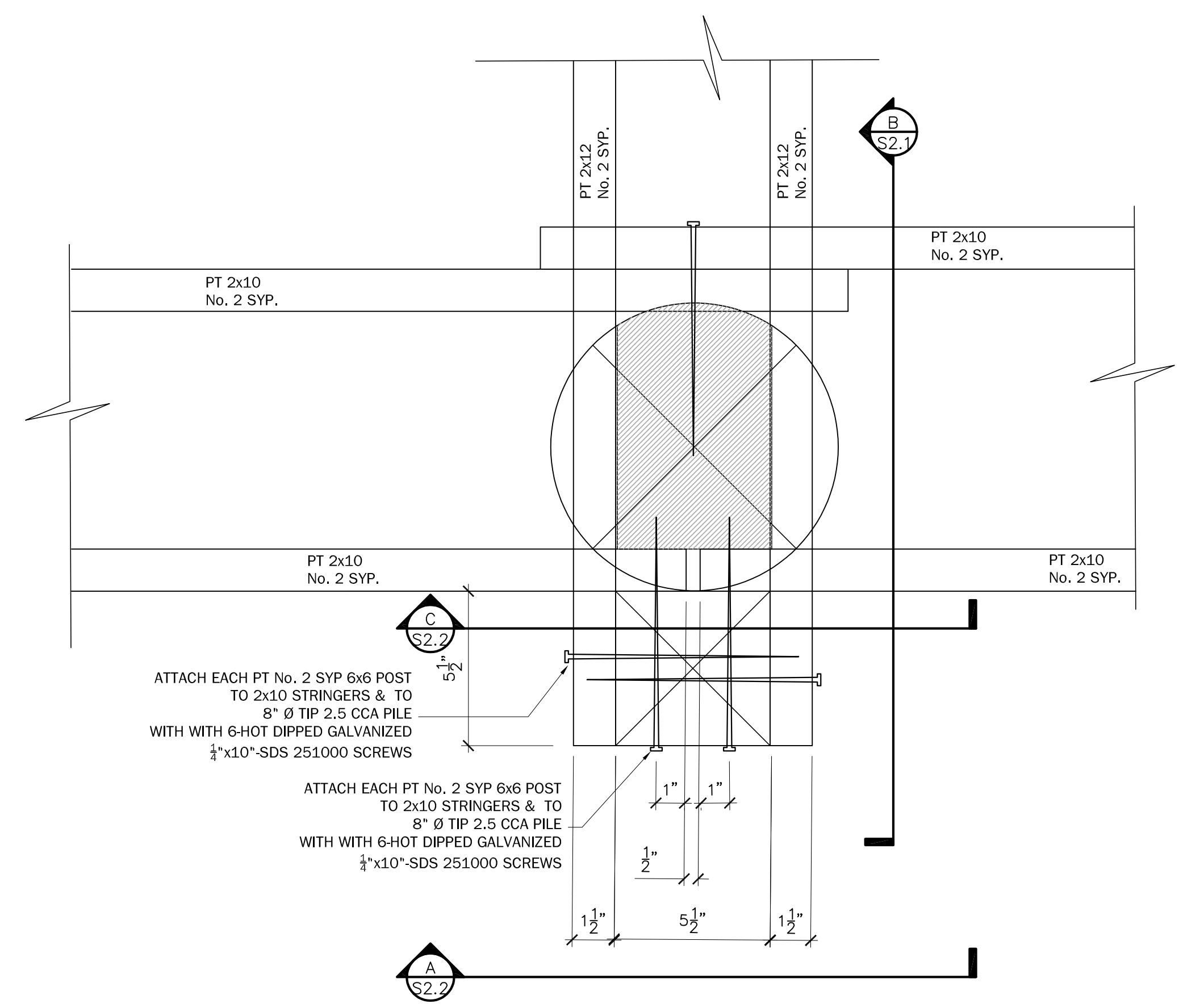
**MHM SERVICES**  
CATAHOULA WILDLIFE REFUGE  
SOUTH DUCK LAKE  
PROPOSED BOARDWALK

DRAWN:	THK	CHECKED:	MCR	APPROVED:	MCR
DATE:	12/12/18	SCALE:	SEE PLAN	REVISION:	
DRAWING NUMBER:	AS18051	REVISION:	S2.2	DATE:	A

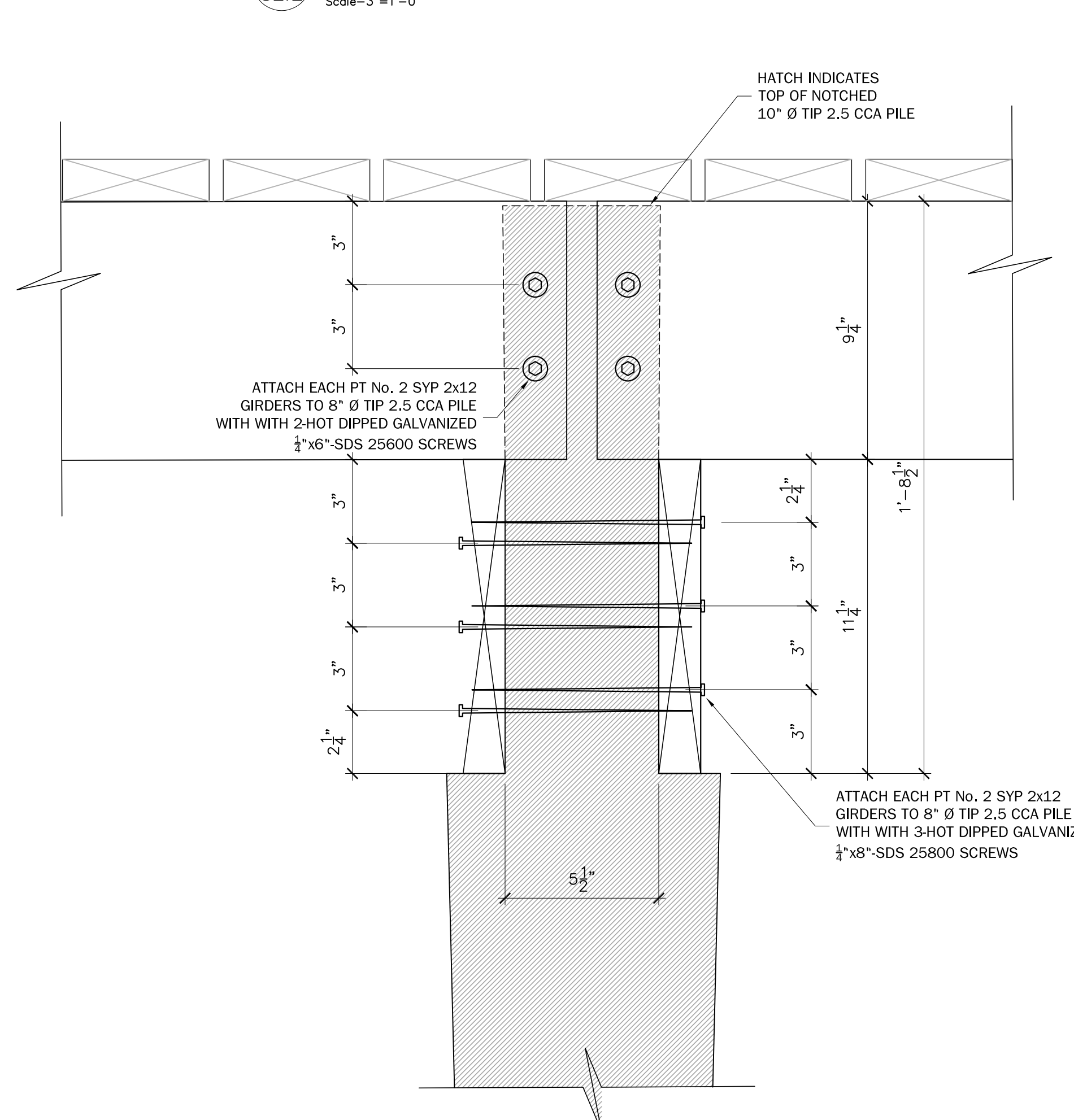




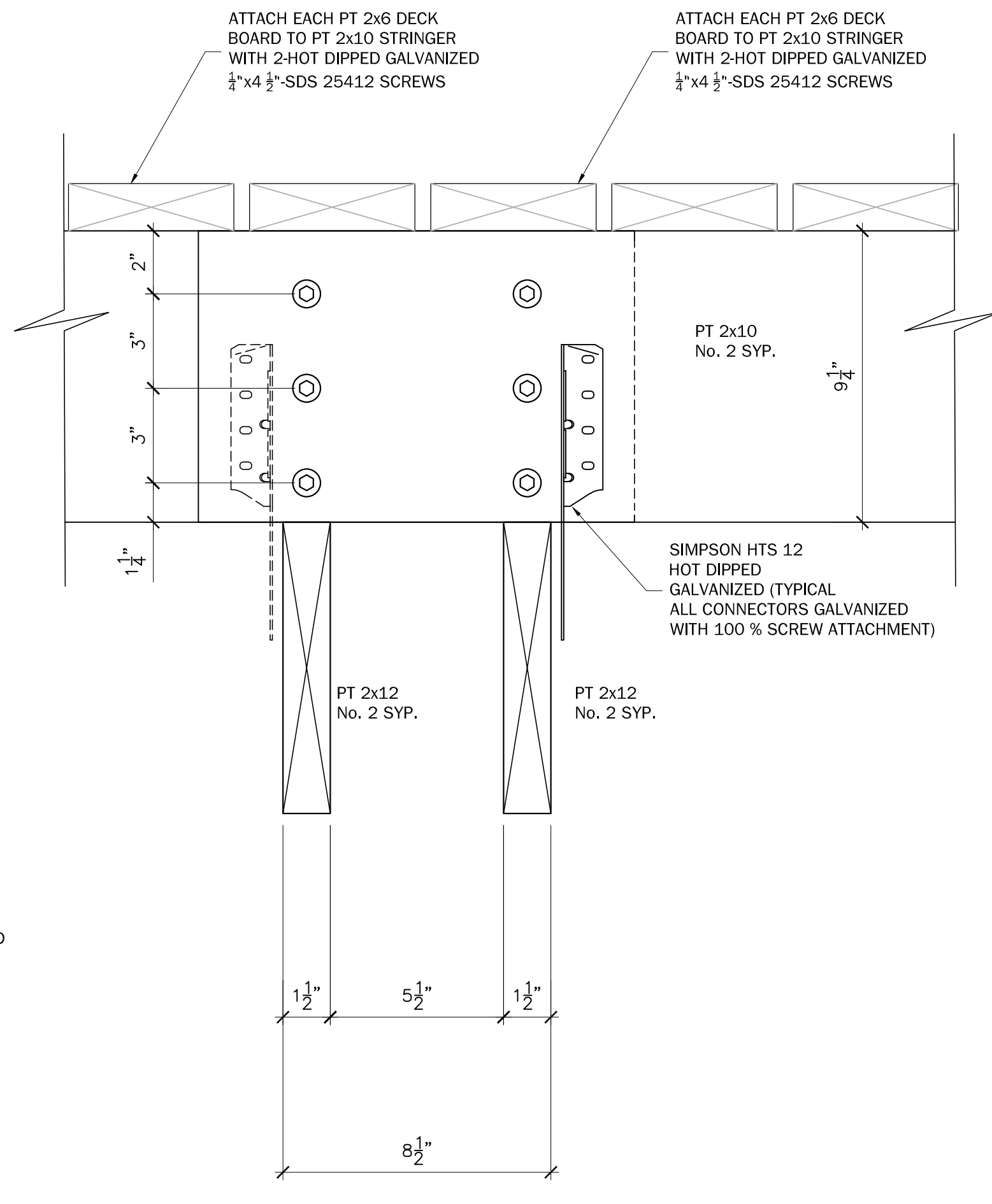
**A SECTION @ 6x6 HAND RAIL POST**  
S2.2 Scale=3"=1'-0"



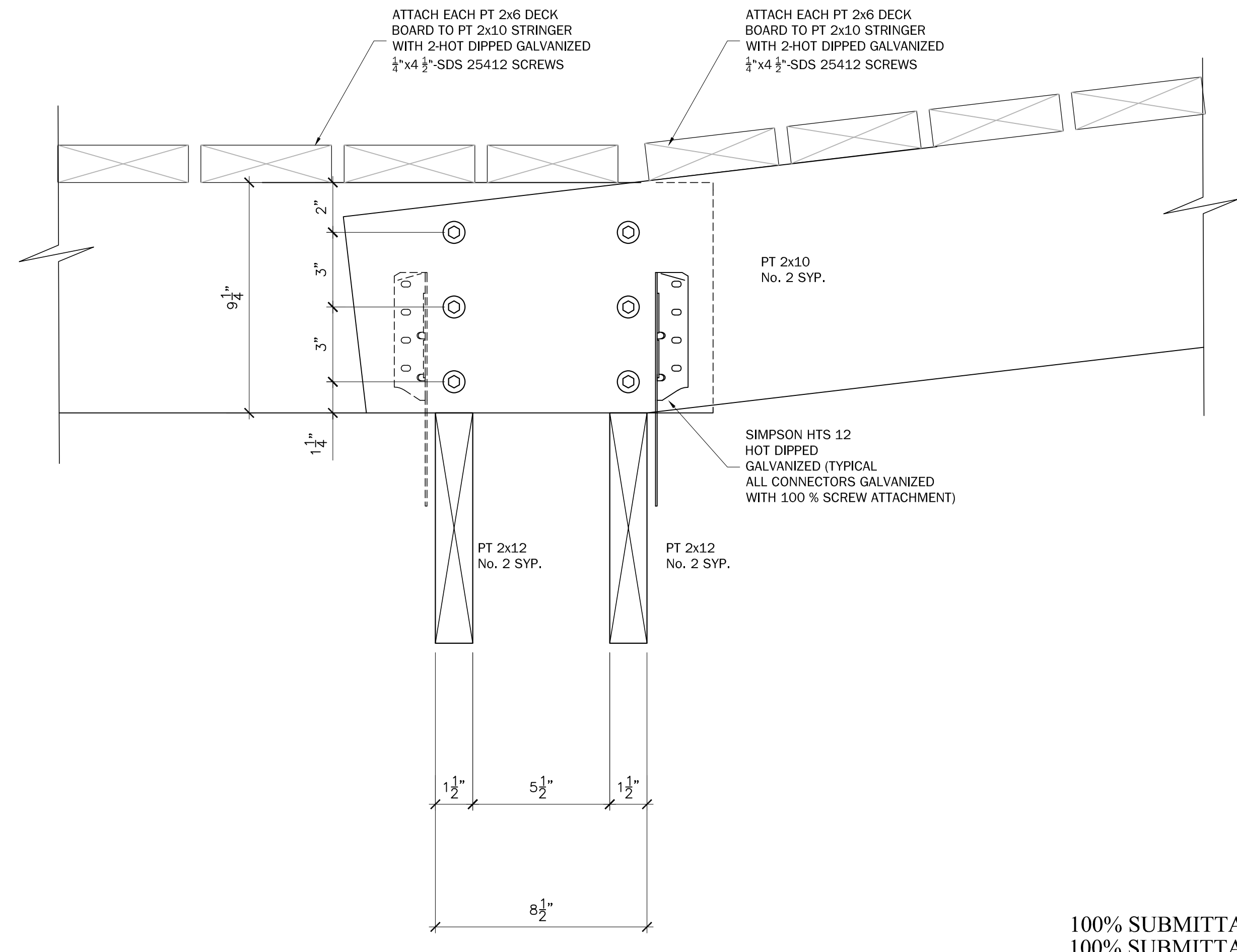
**B PLAN @ 6x6 HAND RAIL POST**  
S2.2 Scale=3"=1'-0"



**C SECTION @ 10" ROUND PILE BENT**  
S2.2 Scale=3/4"=1'-0"

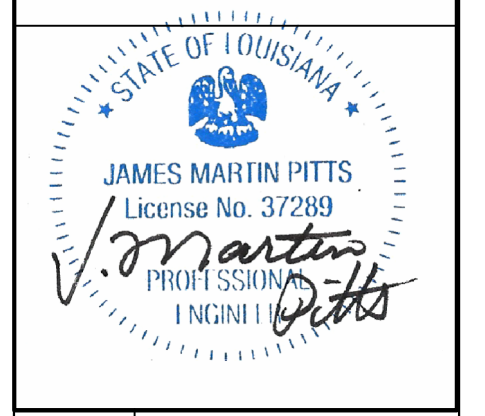


**D DETAIL AT LEVEL STRINGER BEARING POINT (FLAT)**  
S2.2 Scale=3"=1'-0"



**E DETAIL AT SLOPING STRINGER BEARING POINT (SLOPE)**  
S2.2 Scale=3"=1'-0"

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY
3	11/8/23	ISSUED GENERAL REVISION			
2	10/24/23	ISSUED FOR CONSTRUCTION 4" SLAB			
1	10/21/23	ISSUED FOR CONSTRUCTION 100%			
C	11/7/18	98% REVIEW			
B	10/24/18	95% REVIEW			
A	09/11/18	ISSUED FOR REVIEW			



THIS DRAWING IS THE PROPERTY OF GULF STATES ENGINEERING, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION FROM GULF STATES ENGINEERING, INC.

**MHM SERVICES**  
CATAHOULA WILDLIFE REFUGE  
SOUTH DUCK LAKE  
PROPOSED BOARDWALK

100% SUBMITTAL 11.8.23  
100% SUBMITTAL 10.24.23  
100% SUBMITTAL 12.12.18

**J. Martin Pitts P.E. LLC**  
Civil Engineering  
Structural Engineering  
PHONE: 251-591-6634  
FAX: 251-590-4367

DATE	SCALE	REVISION
12/12/18	SEE PLAN	

DRAWN: THK  
CHECKED: MCR  
APPROVED: MCR

DRAWING NUMBER: AS18051  
REVISION: S2.2  
DATE: 12/12/18