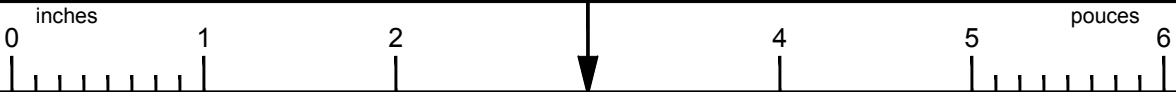




**Project Title:** Kootenay Lake Construction of Navigational Aids

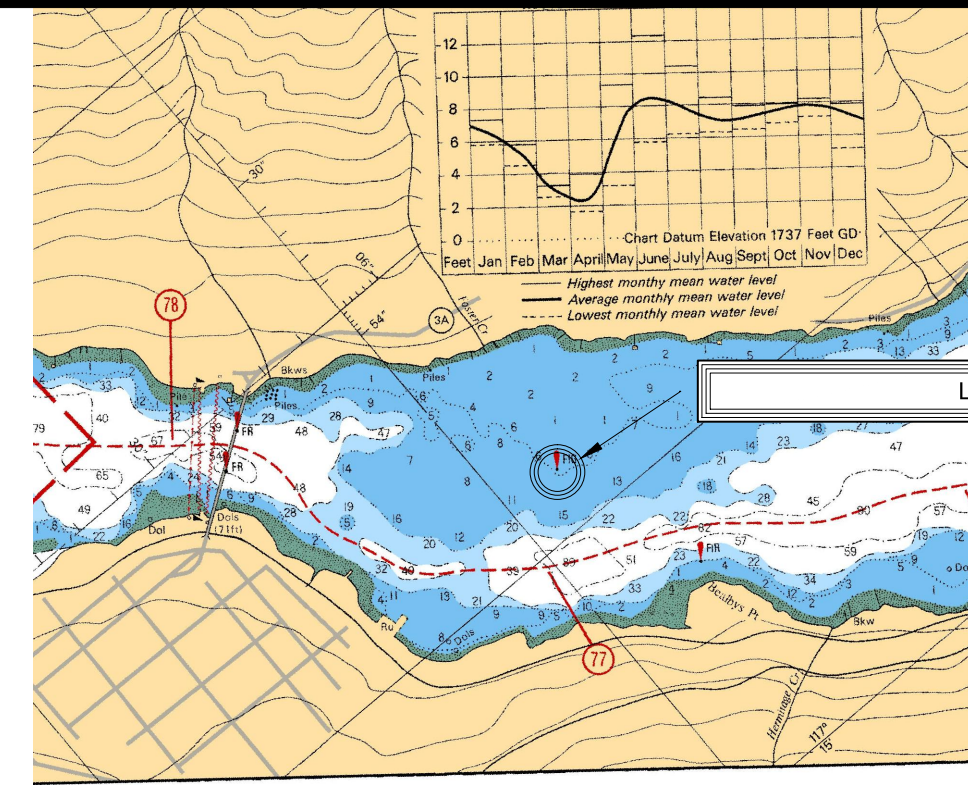
**INDEX OF DRAWINGS:**

<b>Title of Drawing</b>	<b>Drawing No.</b>	<b>Issue</b>	<b>Date</b>
LL 1.3 Nelson East	24005	For Tender	2017-05-30
LL 3.0 Seven Mile Point	24006	For Tender	2017-05-30
LL 5.0 Kokanee Narrows	24007	For Tender	2017-05-30
LL 5.3 Kokanee Point East	24008	For Tender	2017-05-30
LL 5.6 Strickland Creek East	24009	For Tender	2017-05-30
LL 8.3 Procter Sector	24035	For Tender	2017-05-30
LL 13.3 Kootenay Landing Outer	24010	For Tender	2017-05-30
LL 19.0 Schroeder Point	24011	For Tender	2017-05-30
LL 39.5 Cape Horn	24080	For Tender	2017-05-30

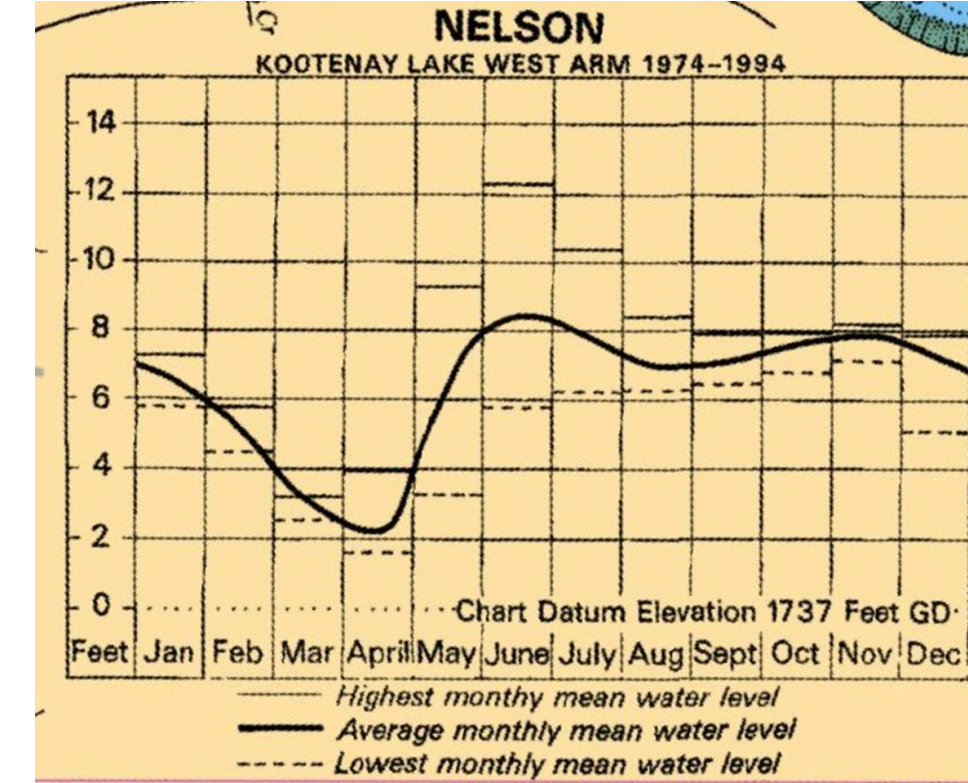


**GENERAL NOTES**

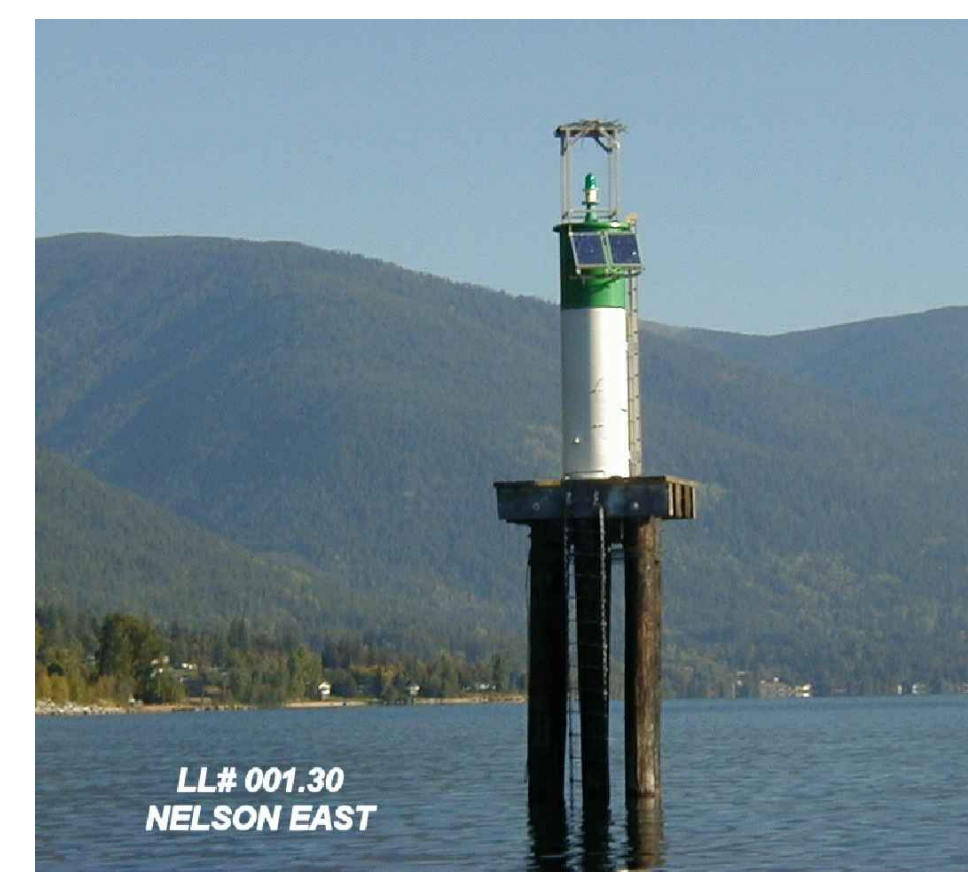
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2. ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAVE BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE MEASUREMENTS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. CONTRACTOR TO MEASURE AND VERIFY PILE LENGTHS PRIOR TO ORDERING MATERIALS.
7. CCG SUPPLIED MATERIALS WILL BE DELIVERED BY CCG TO THE CONTRACTOR.
8. ELEVATIONS SHOWN ARE APPROXIMATE.
9. WATER LEVELS AND GROUND ELEVATIONS ARE REFERENCED TO CHART DATUM.



LOCATION CHARTLETT (PART OF 3050) N.T.S.



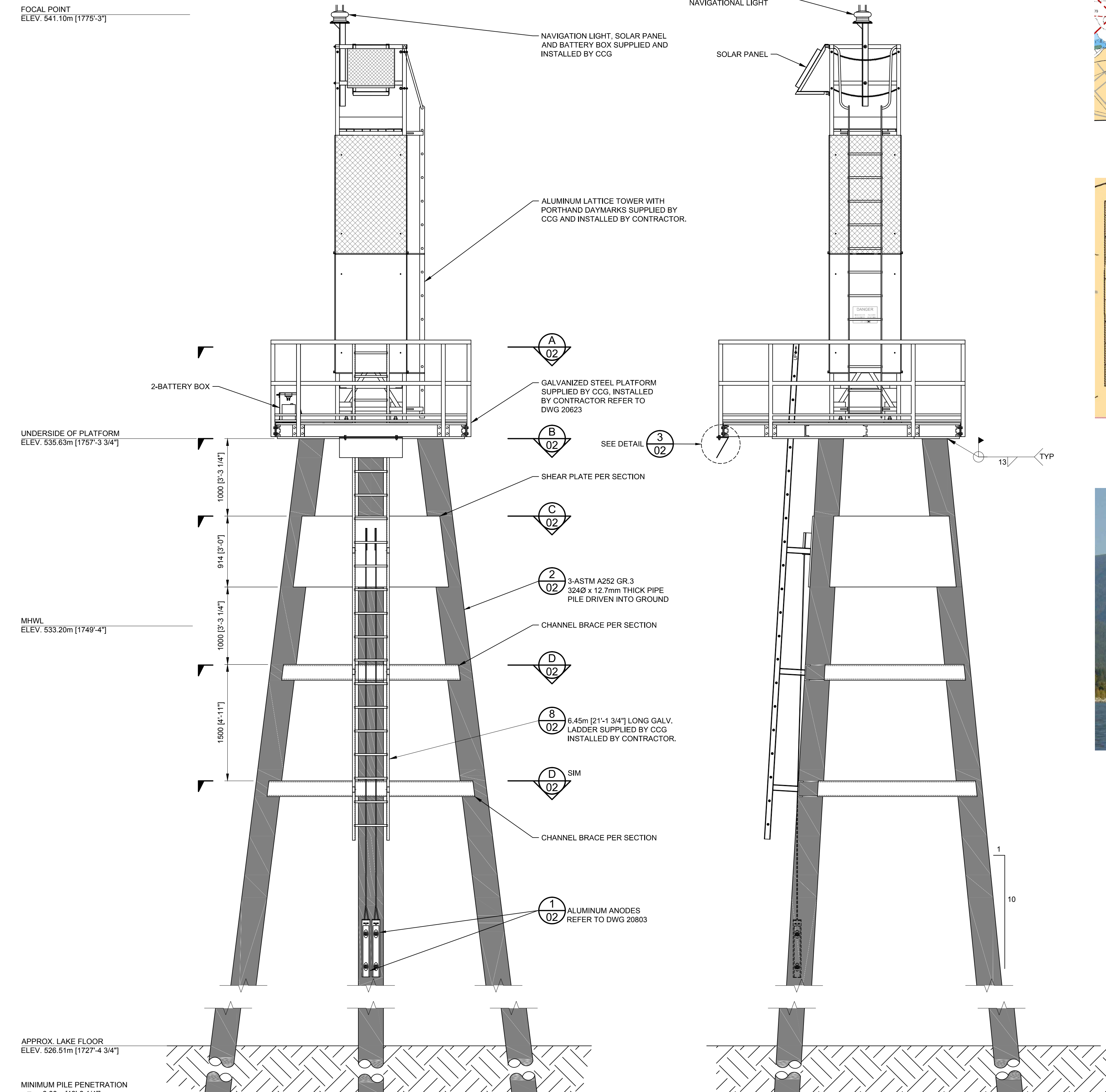
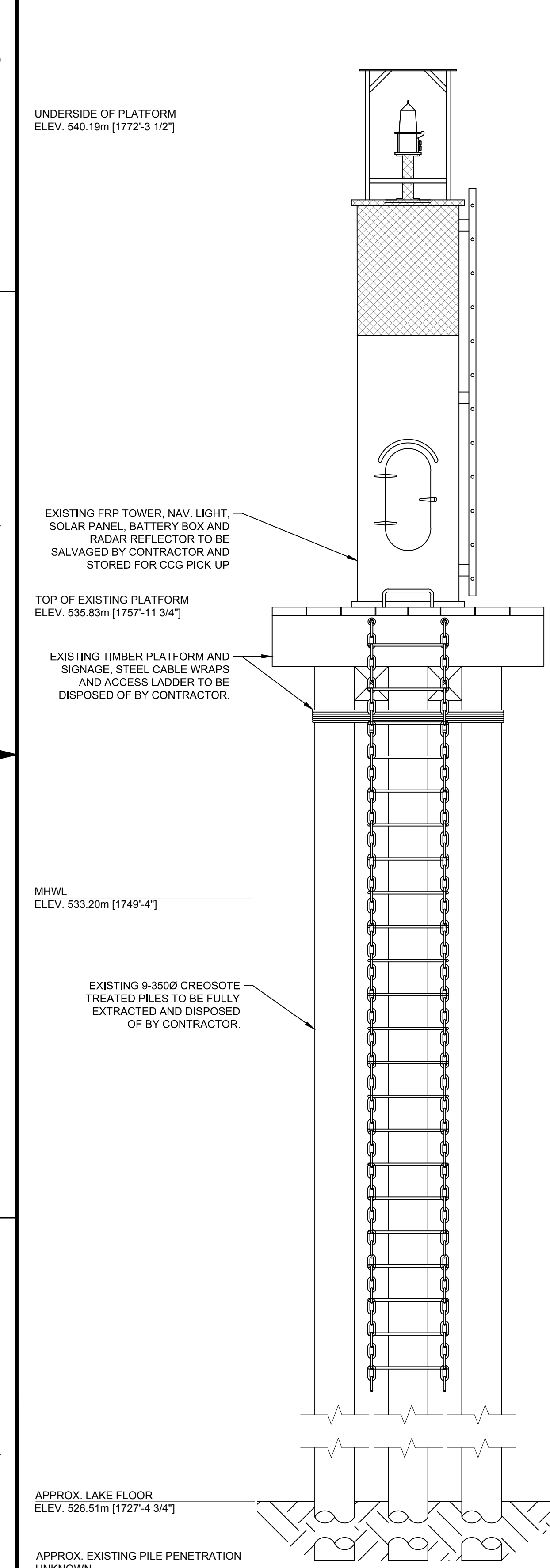
MONTHLY MEAN WATER LEVELS



LL 1.3 NELSON EAST EXISTING STRUCTURE

**STRUCTURAL STEEL - CCG**

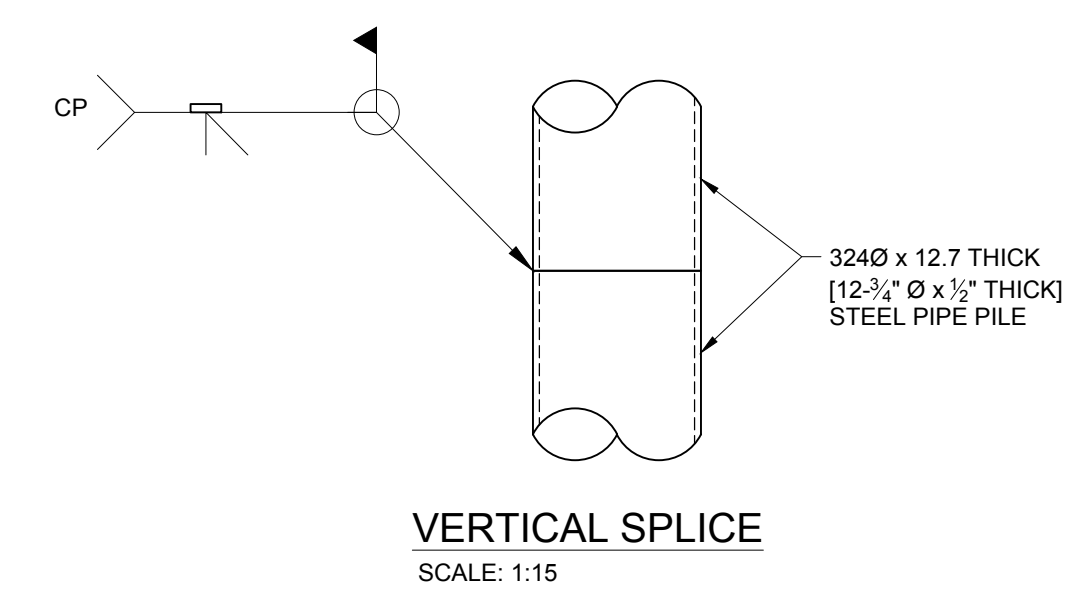
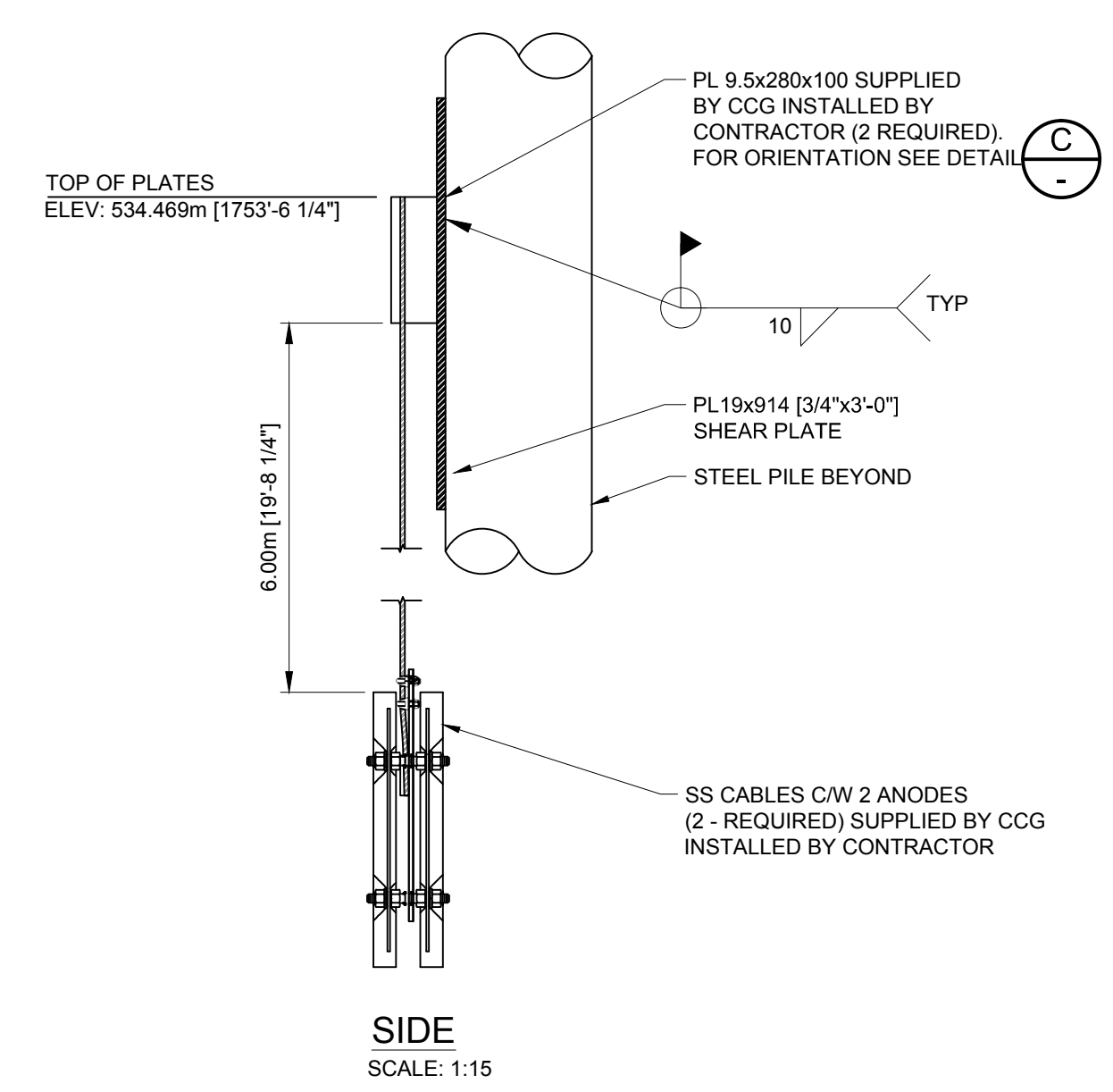
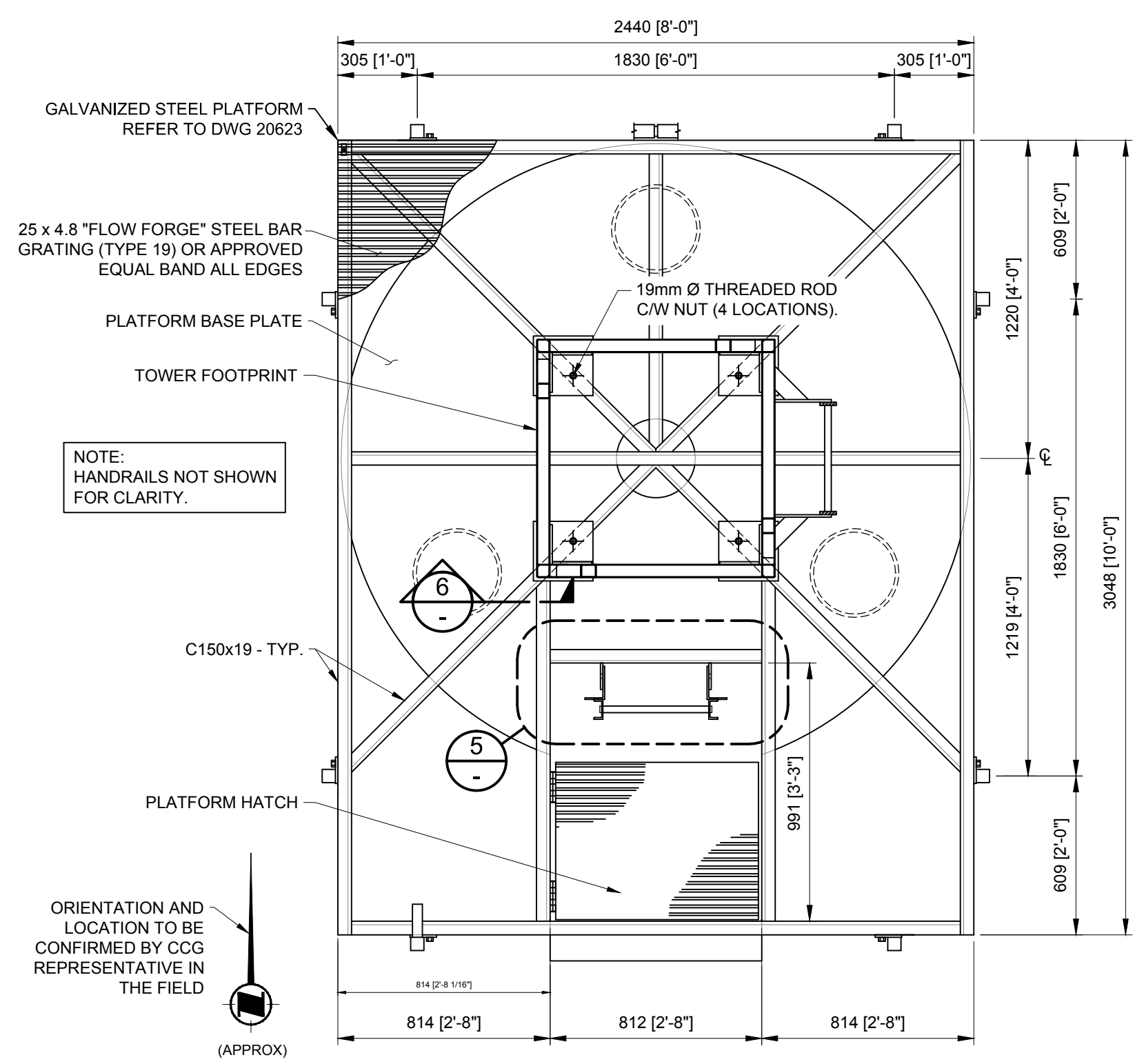
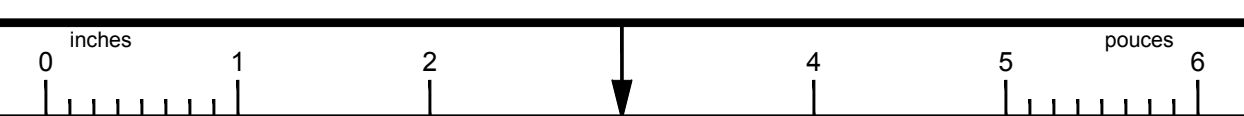
1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
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  - 4 STRUCTURAL BOLTS: ASTM-A325
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12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.



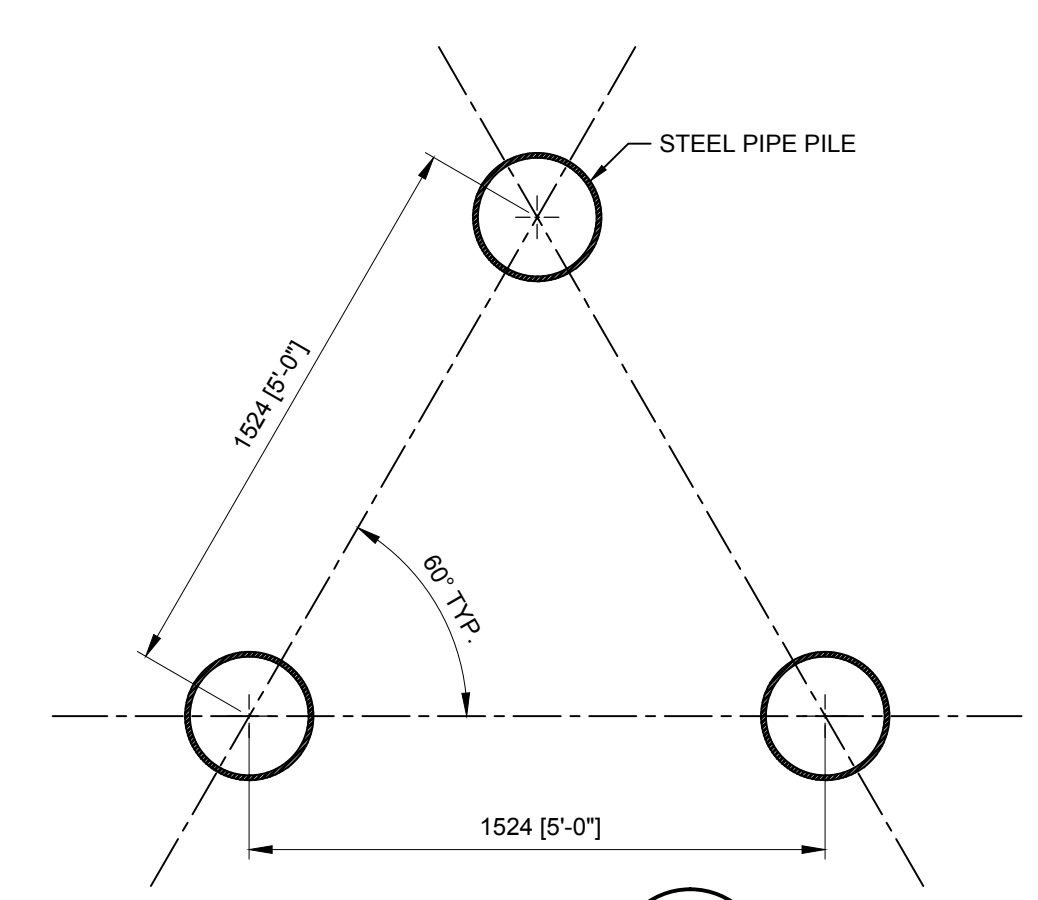
EXISTING 1 9 TIMBER PILE DOLPHIN  
SCALE: 1:30

PROPOSED 2 3 STEEL PILE DOLPHIN  
SCALE: 1:30

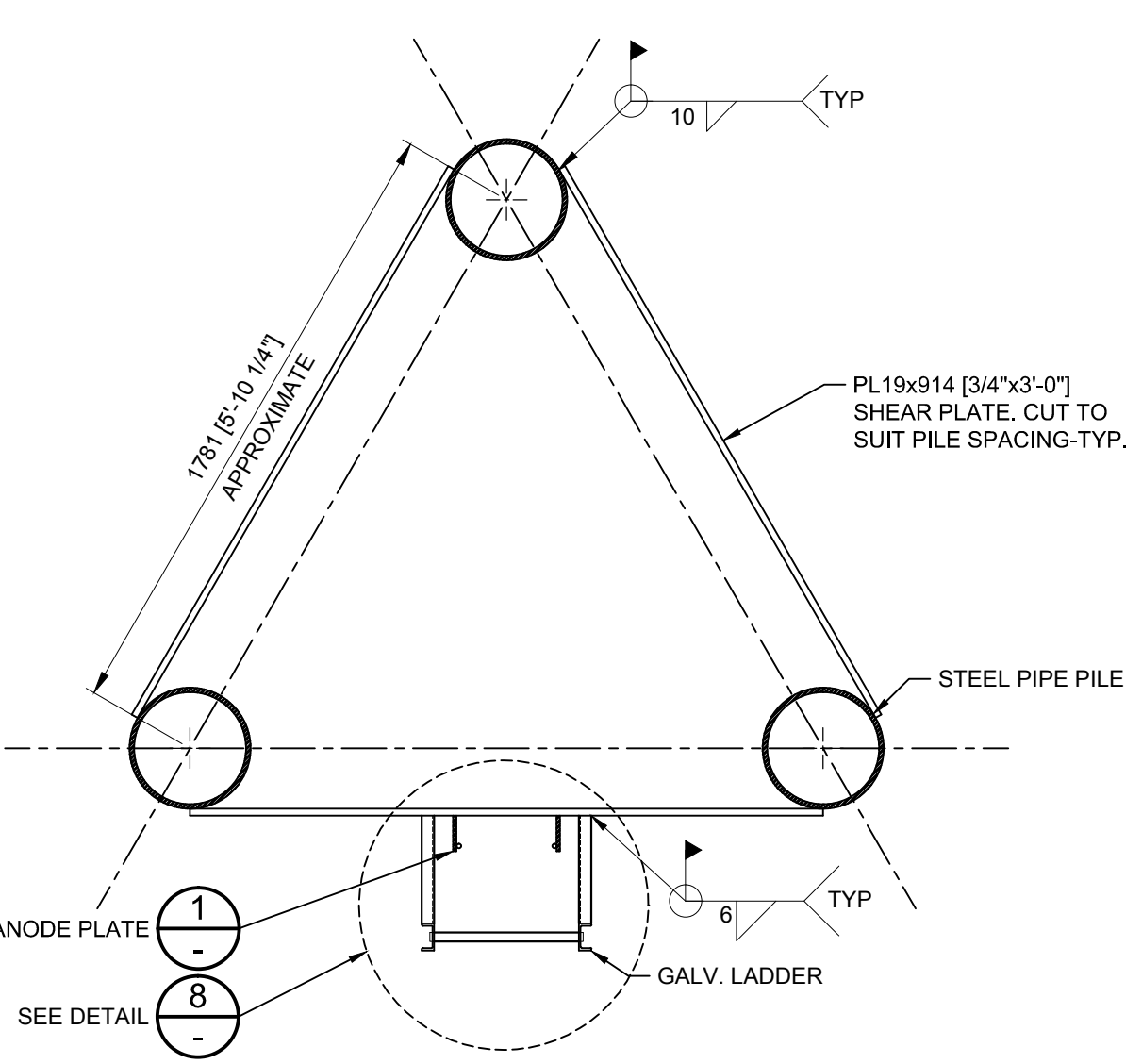
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A	ISSUE FOR REVIEW	AW	2017.02.09
rev	description	by	date
Asset - Actif			
<b>LL 1.3 NELSON EAST</b>			
Drawing - Dessin			
<b>3 PILE DOLPHIN AND STEEL PLATFORM</b>			
drawn - dessiné			date
GAR			2017.05.30
designed - conception			date
AW			2017.05.30
checked - vérifié			date
AW			2017.05.30
approved - approuvé			date
AW			2017.05.30
CCG ref. no. - no. réf. GCC			scale - échelle
			AS SHOWN
drawing no. - no. dessin	sheet/feuille	rev-rév	
24005	01/02	B	



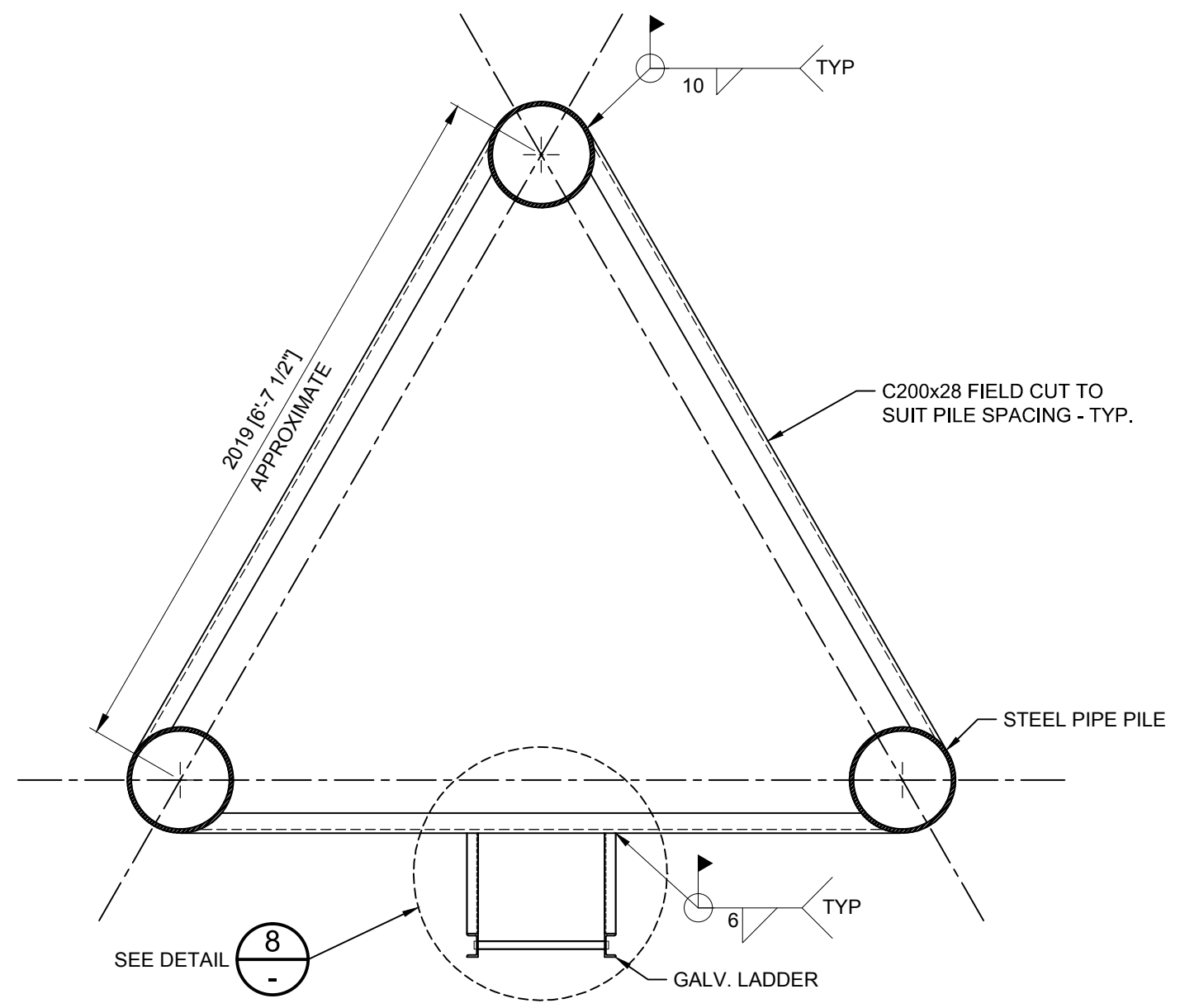
SECTION A 01  
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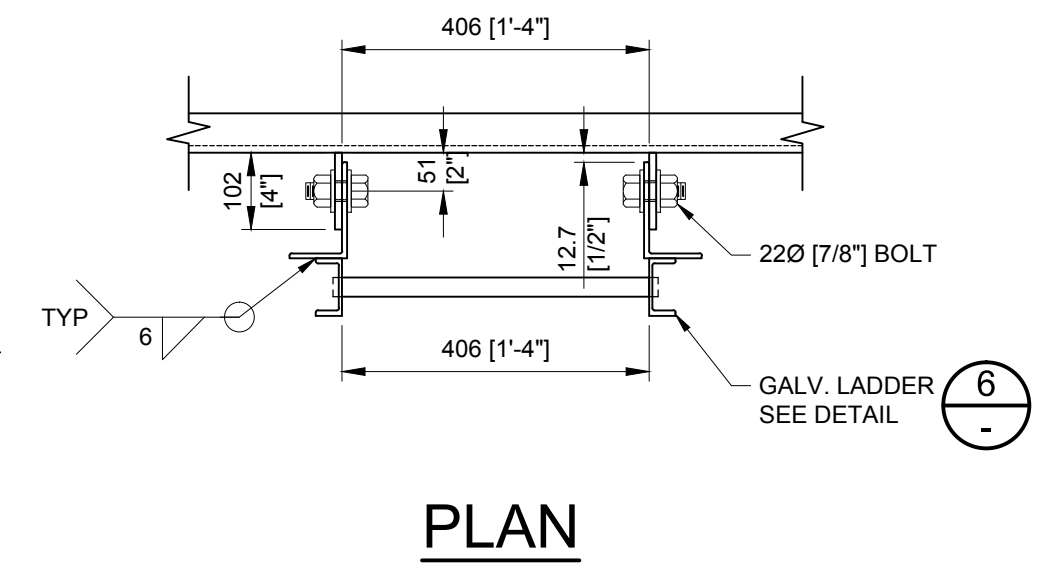
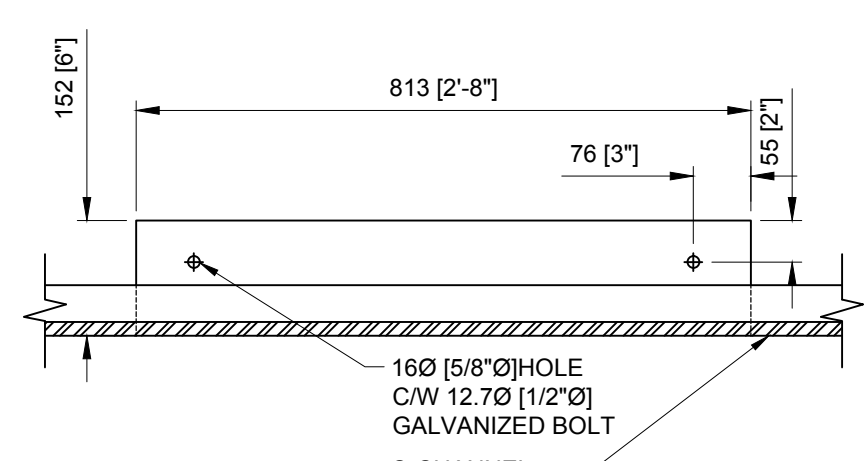
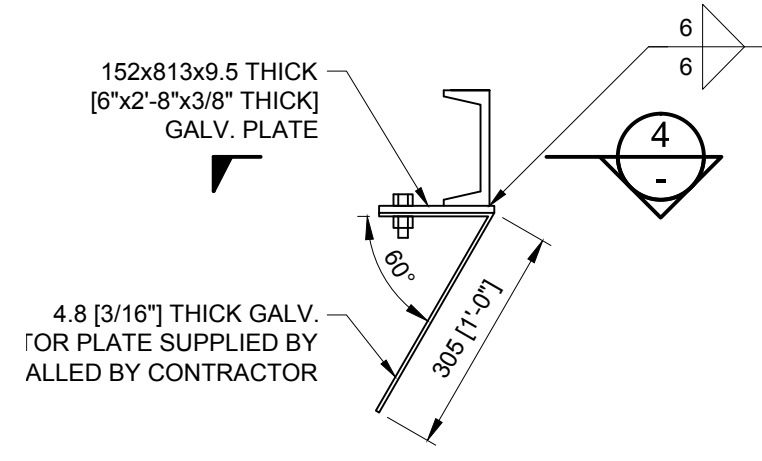
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SECTION C 01  
 SCALE: 1:20

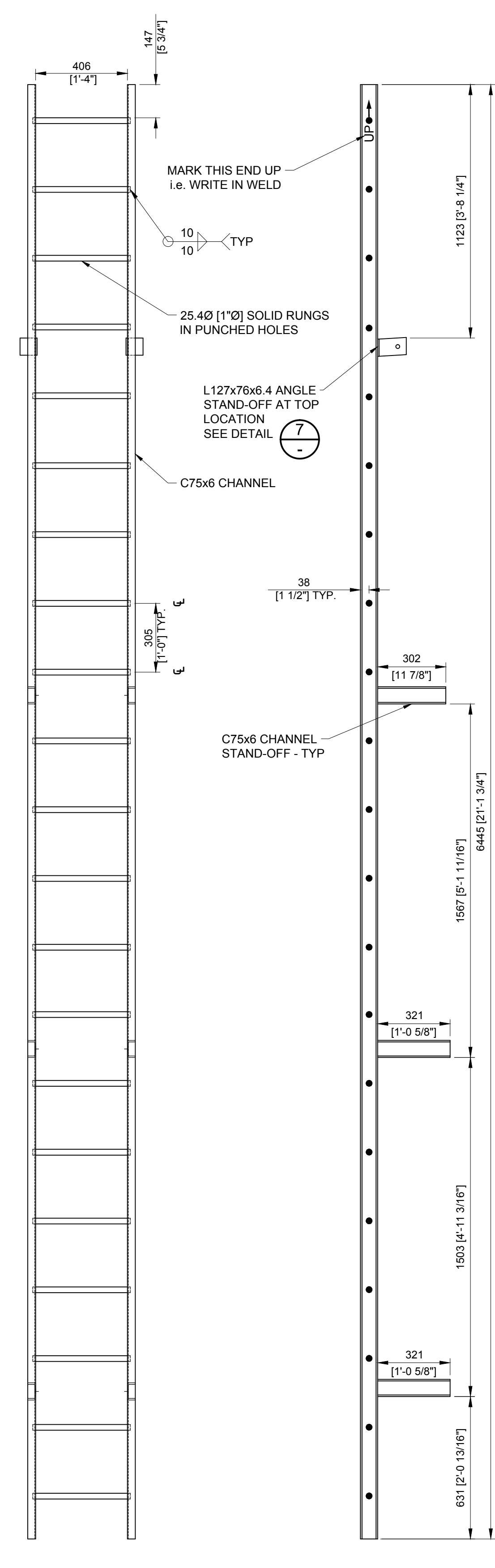


SECTION D 01  
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DETAIL 6 01  
 SCALE: 1:10

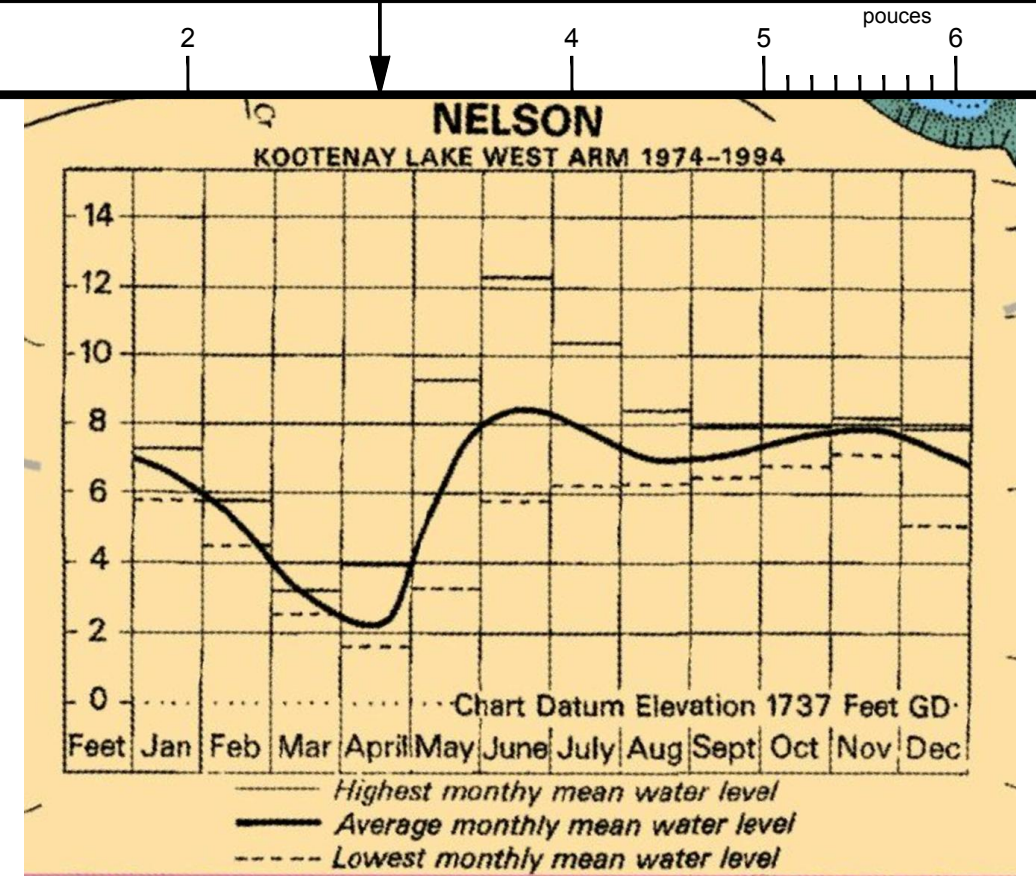
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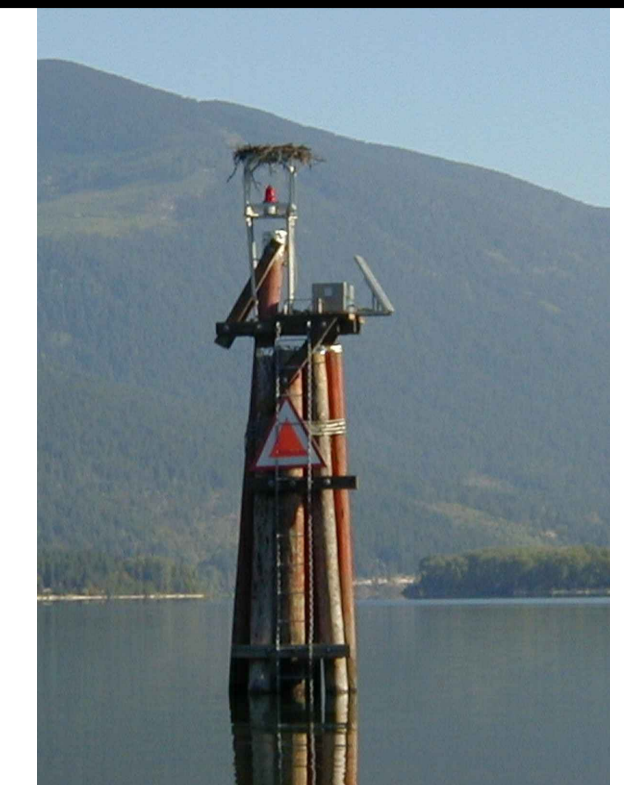
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B	ISSUE FOR TENDER	AW	2017.05.30
A	ISSUE FOR REVIEW	AW	2017.02.09
rev	description	by	date
Asset - Actif			
LL 1.3 NELSON EAST			
Drawing - Dessin			
3 PILE DOLPHIN AND STEEL PLATFORM			
drawn - dessiné			date
GAR			2017.05.30
designed - conception			date
AW			2017.05.30
checked - vérifié			date
AW			2017.05.30
approved - approuvé			date
AW			2017.05.30
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drawing no. - no. dessin			sheet/feuille rev-rév
24005			02/02 B

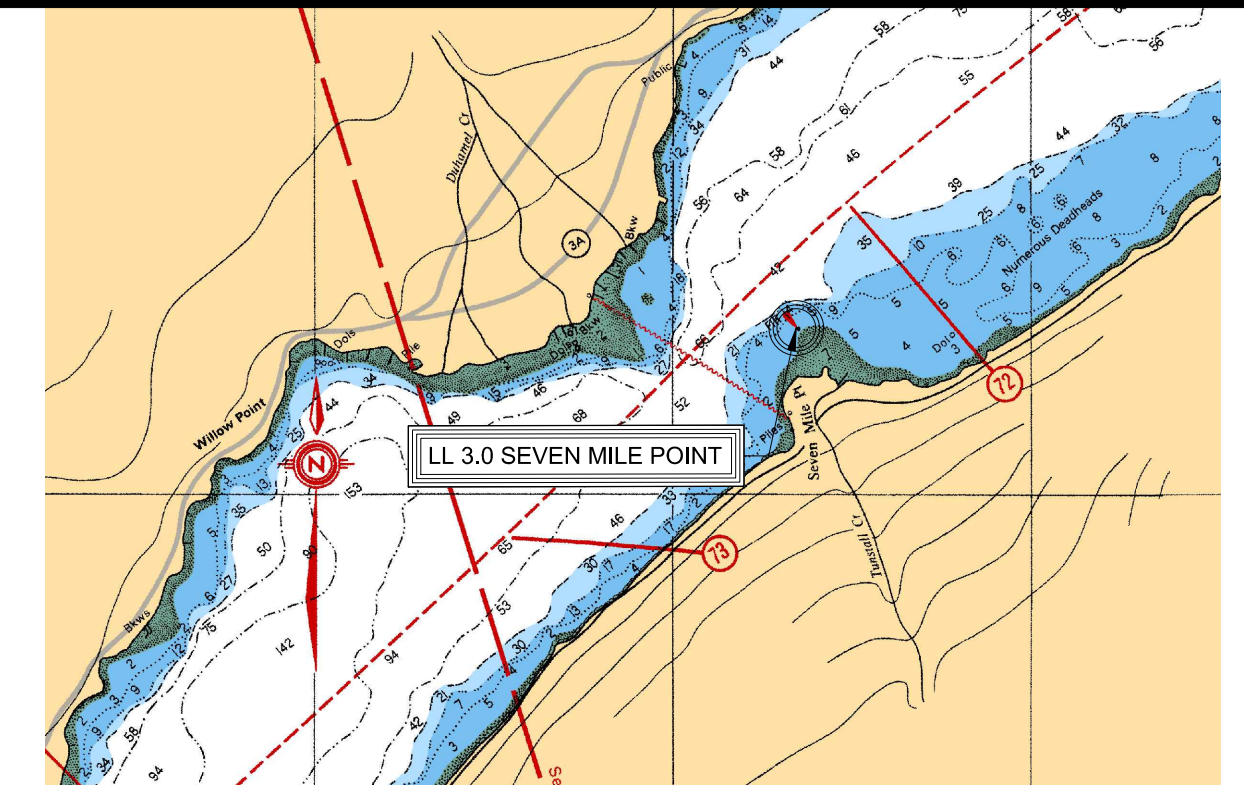




MONTHLY MEAN WATER LEVELS



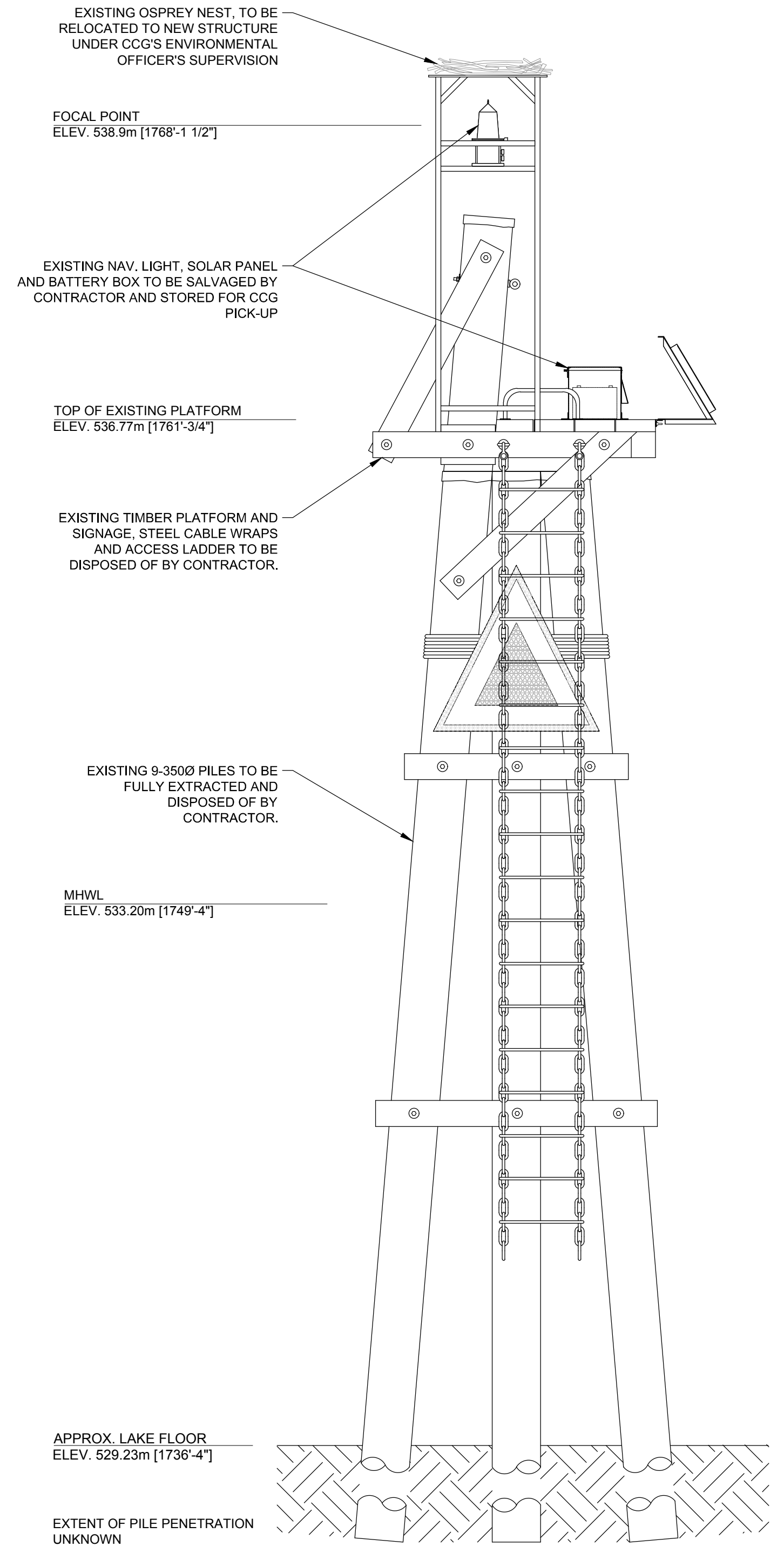
LL 3.0 SEVEN MILE POINT EXISTING STRUCTURE



LOCATION CHARTLETT (PART OF 3050) N.T.S.

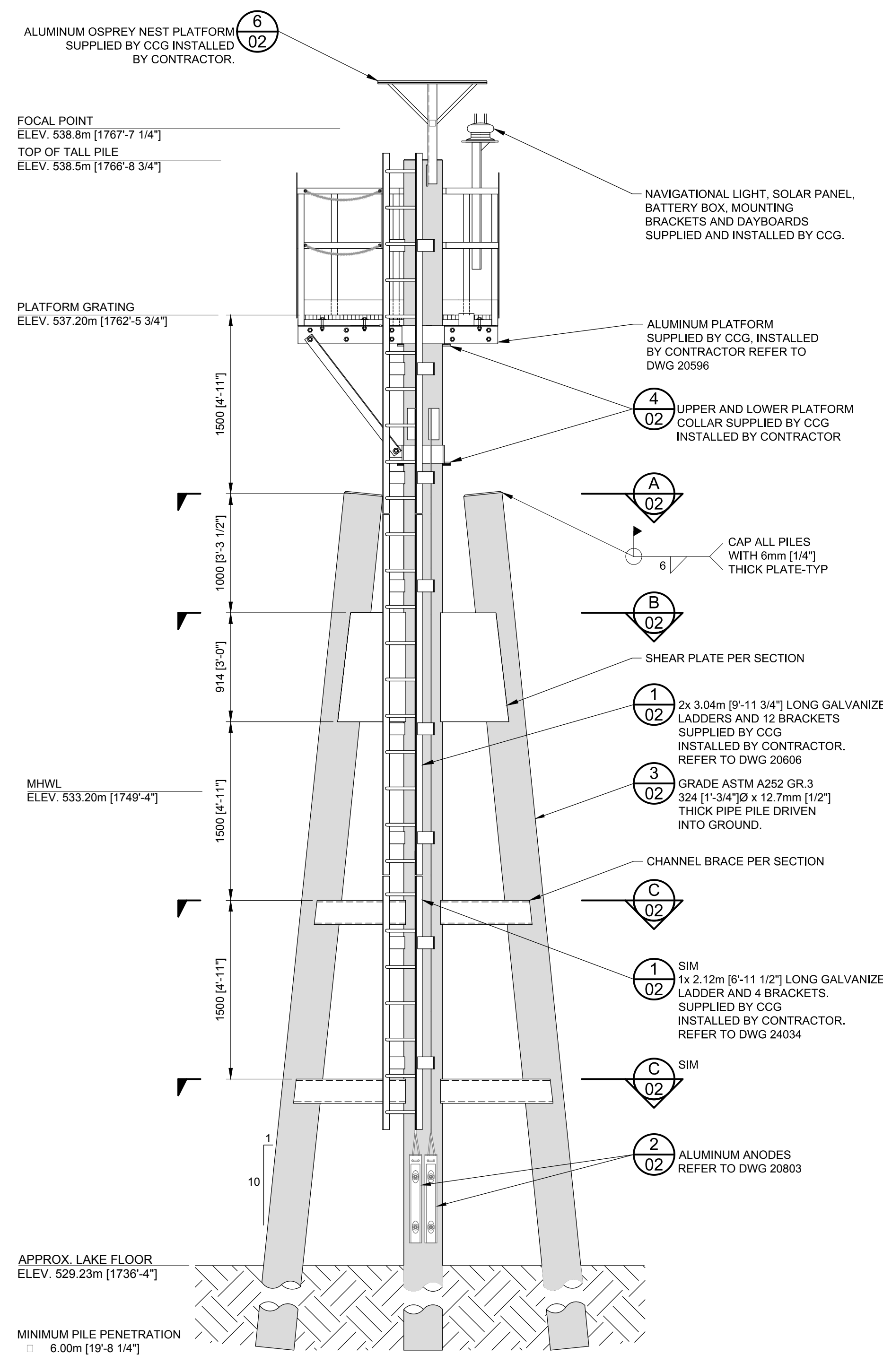
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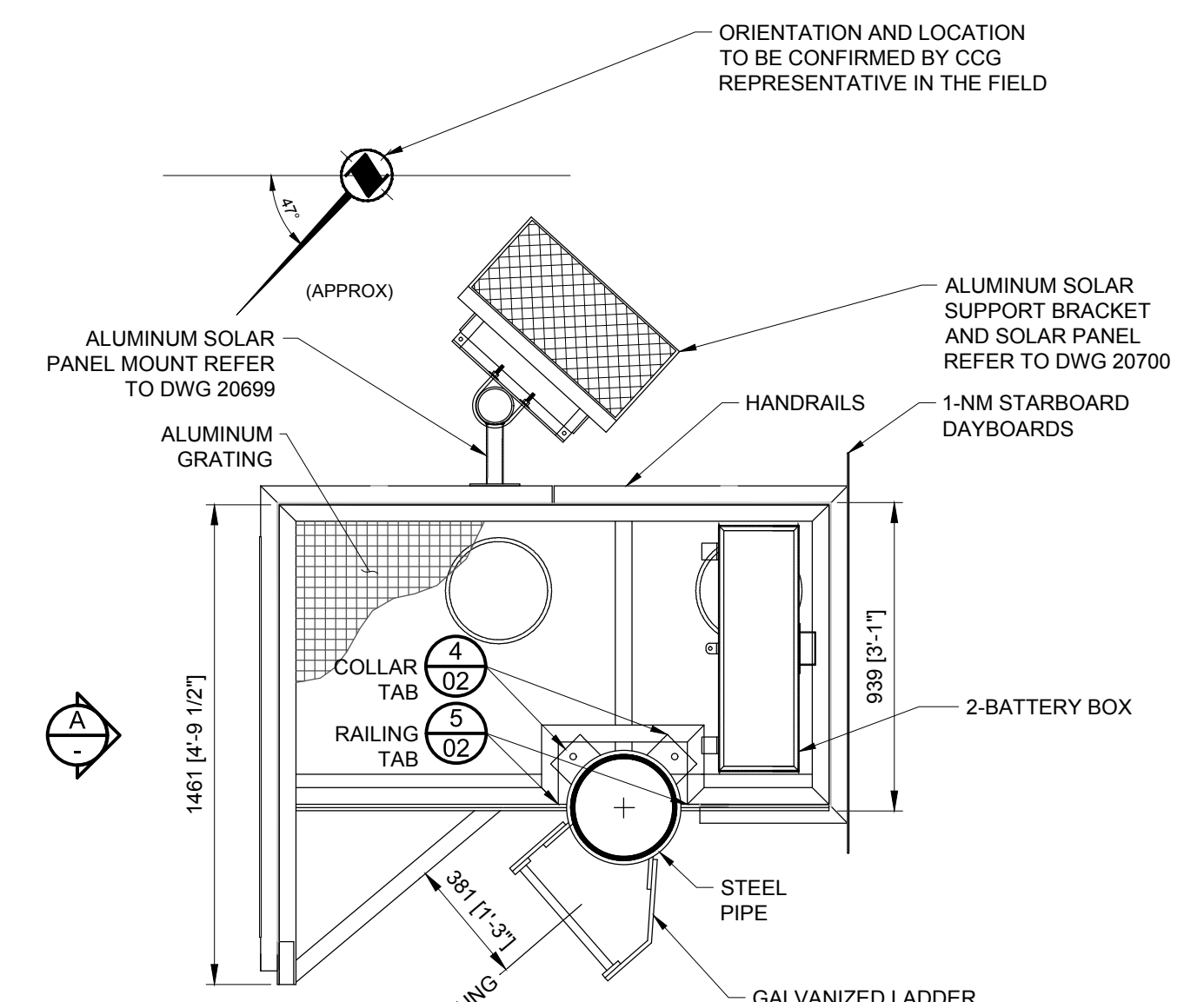
ELEVATION VIEW

EXISTING 1 9 TIMBER PILE DOLPHIN SCALE: 1:30

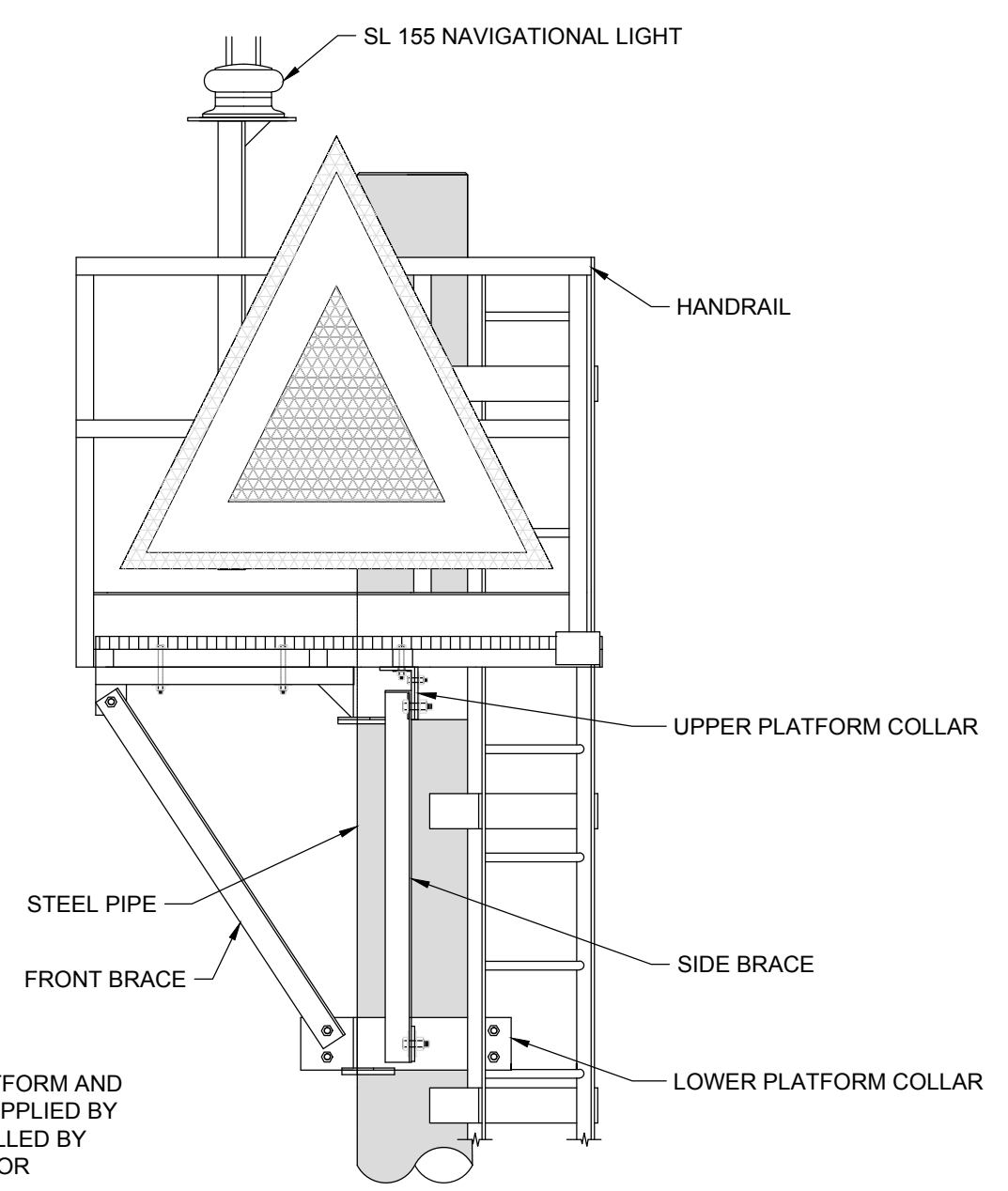


ELEVATION VIEW

PROPOSED 2 3 STEEL PILE DOLPHIN SCALE: 1:30



PLAN VIEW SCALE: 1:20



ELEVATION A SCALE: 1:20

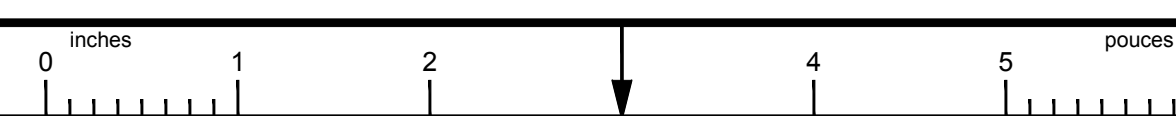
NOTE: PLATFORM AND BRACES SUPPLIED BY CCG INSTALLED BY CONTRACTOR

B	ISSUE FOR TENDER	AW	2017.05.30
A	ISSUE FOR REVIEW	AW	2017.03.01
rev	description	by	date

Asset - Actif  
**LL 3.0 SEVEN MILE POINT**

Drawing - Dessin  
**3 PILE DOLPHIN AND ALUMINUM PLATFORM**

drawn - dessiné	date
GAR	2017.05.30
designed - conception	date
AW	2017.05.30
checked - vérifié	date
AW	2017.05.30
approved - approuvé	date
AW	2017.05.30
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	AS SHOWN
drawing no. - no. dessin	sheet/feuille
24006	01/02 B



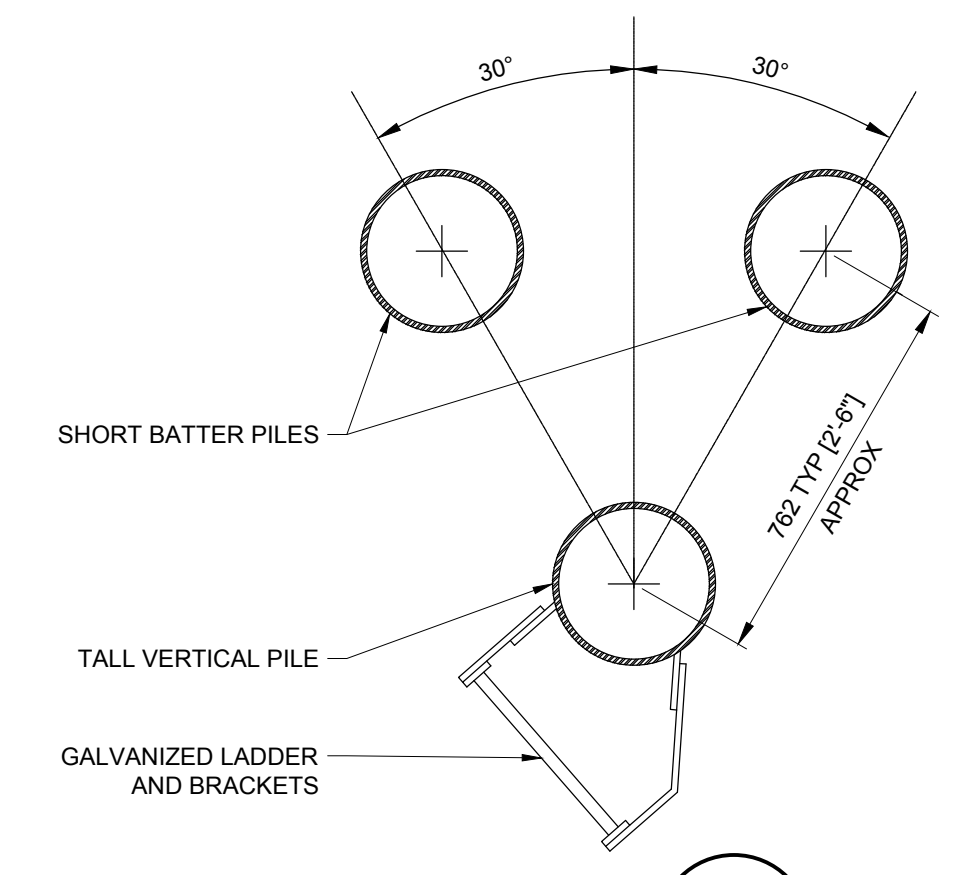
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C

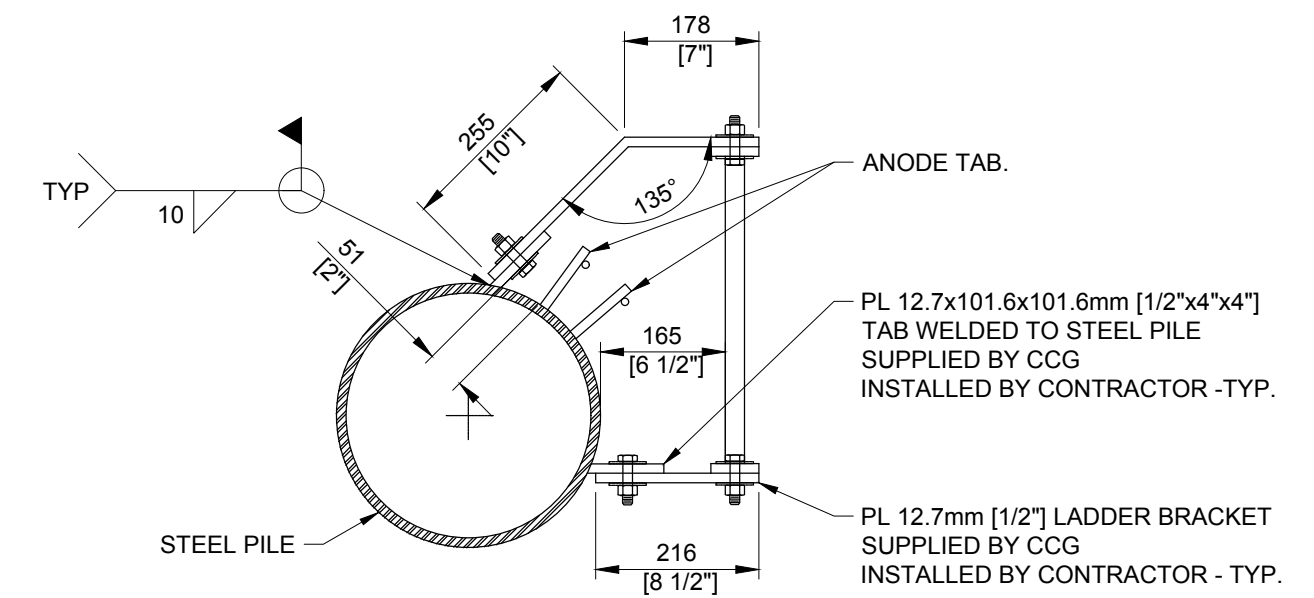
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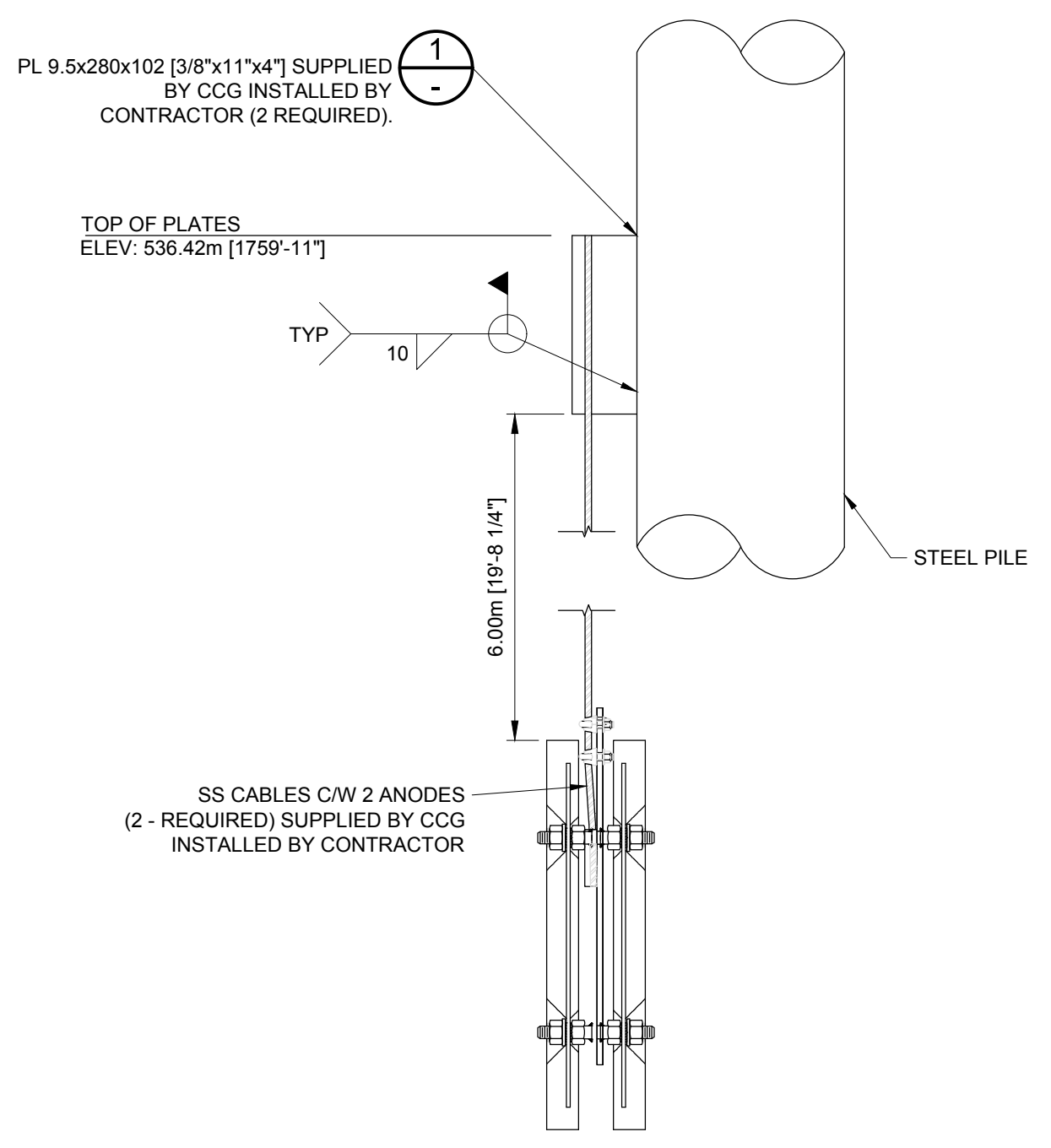
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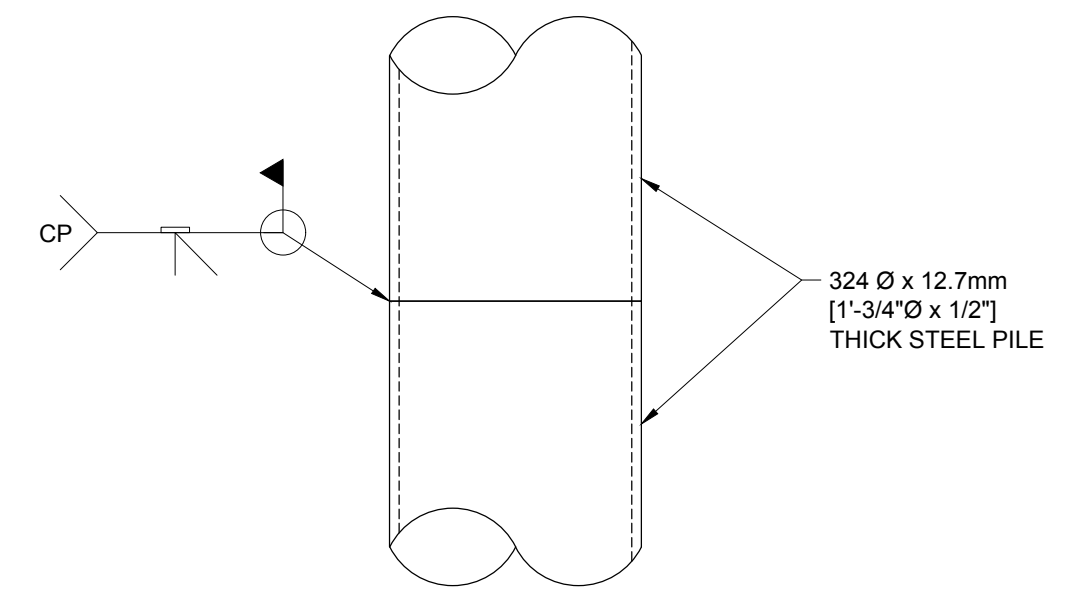
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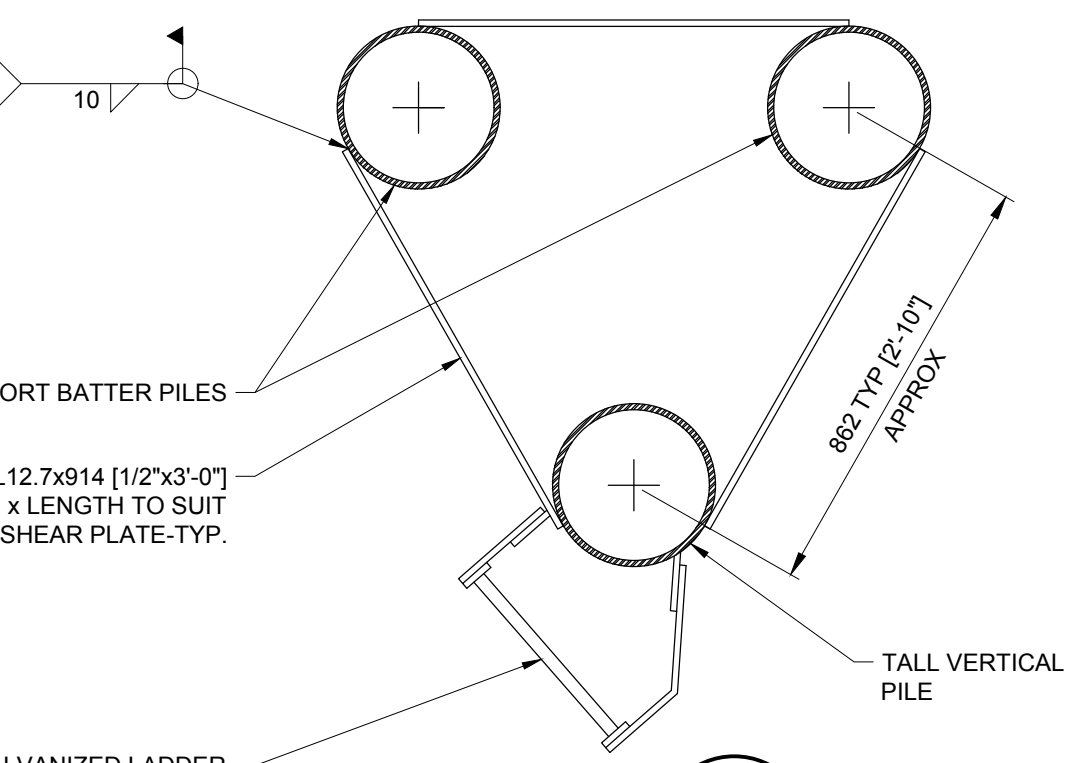
PLAN



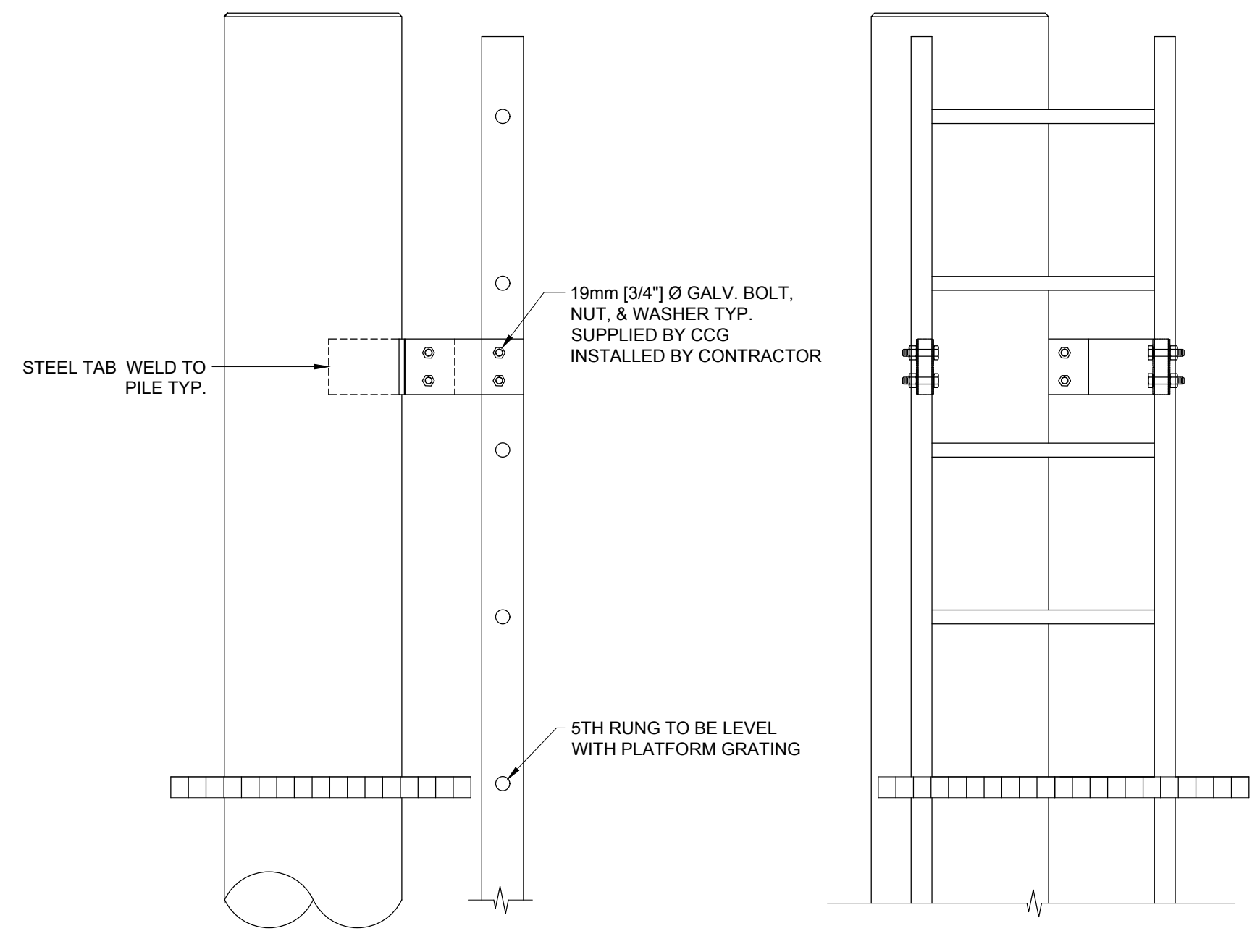
DETAIL 2 ANODES 01  
SCALE: 1:10



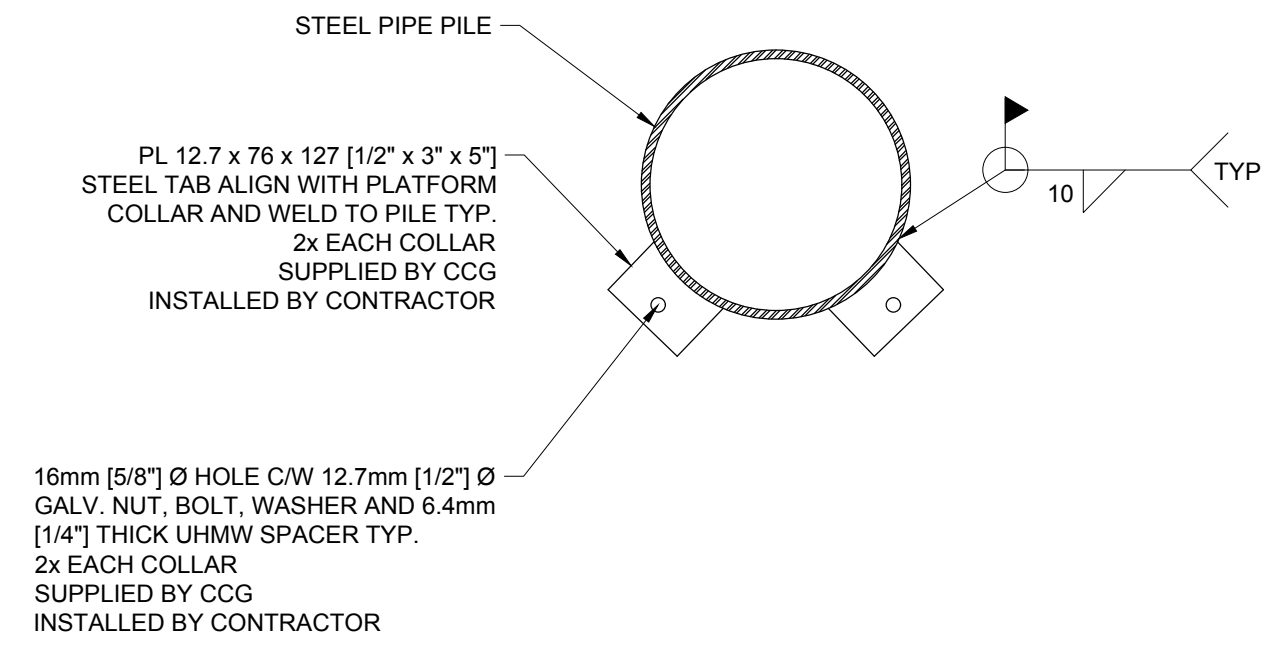
DETAIL 3 PILE SPLICE 01  
SCALE: 1:10



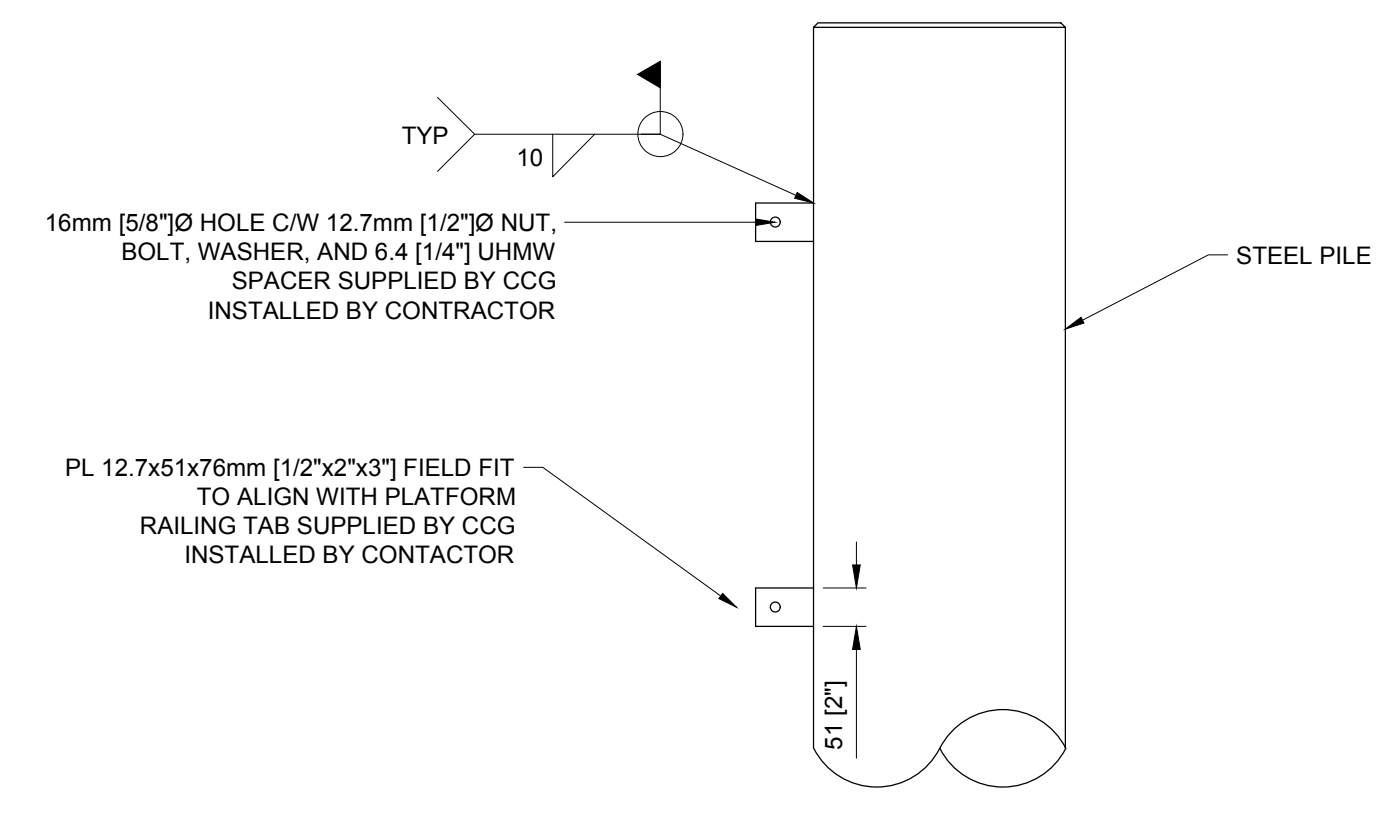
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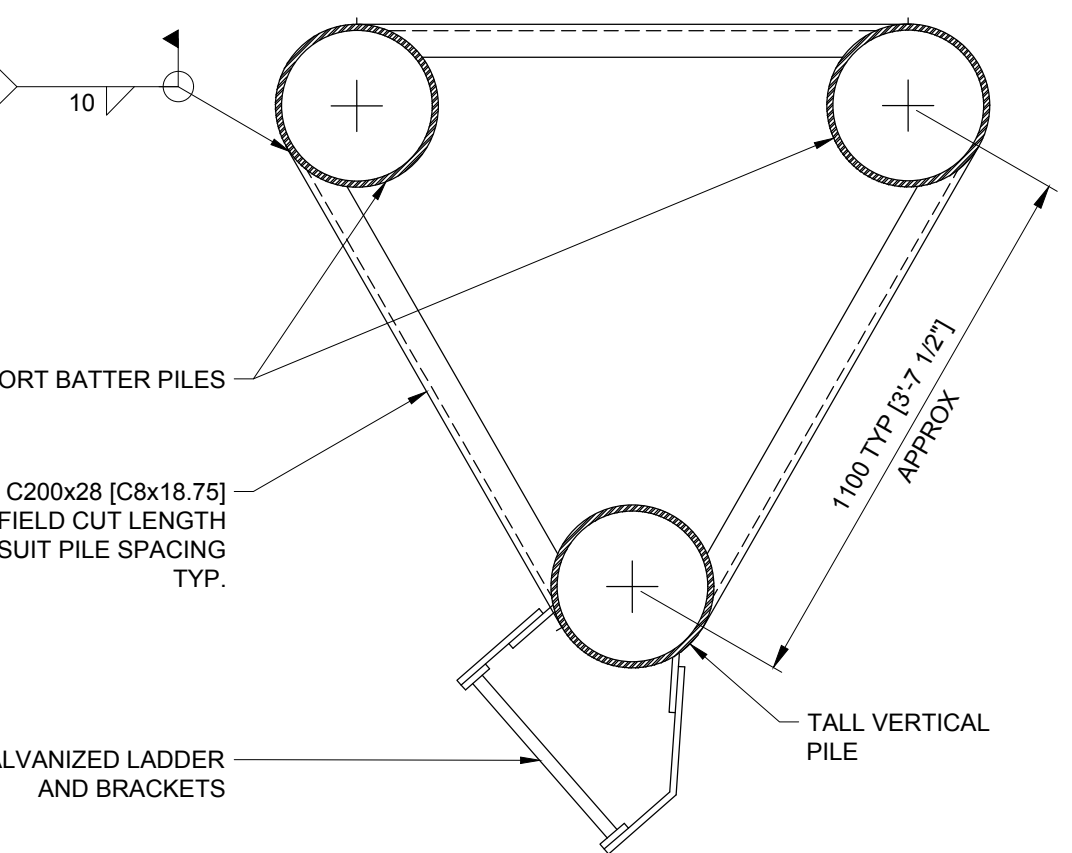
DETAIL 1 LADDER AND BRACKETS 01  
SCALE: 1:10



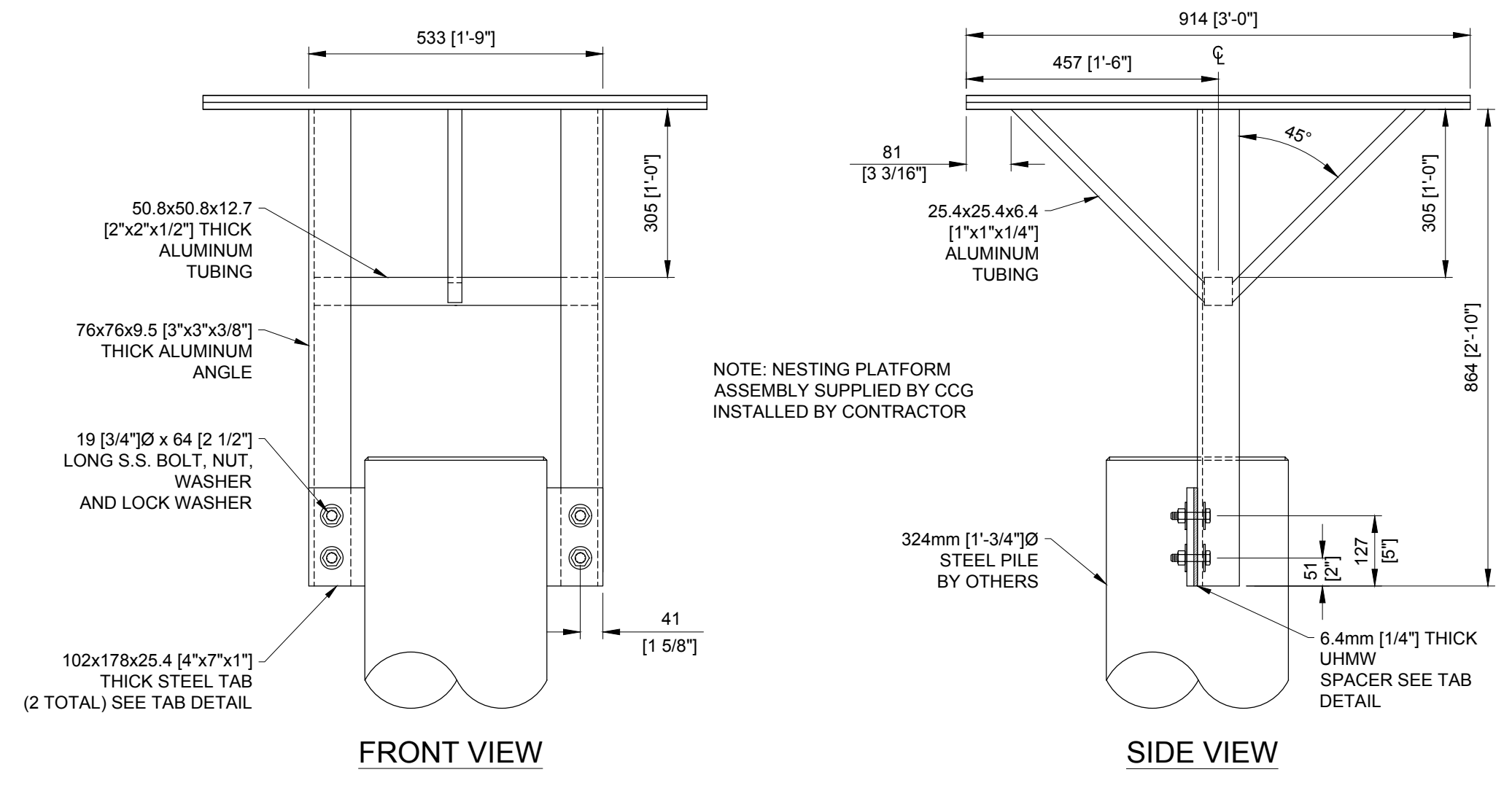
DETAIL 4 COLLAR TABS 01  
SCALE: 1:10



DETAIL 5 RAILING TAB 01  
SCALE: 1:10

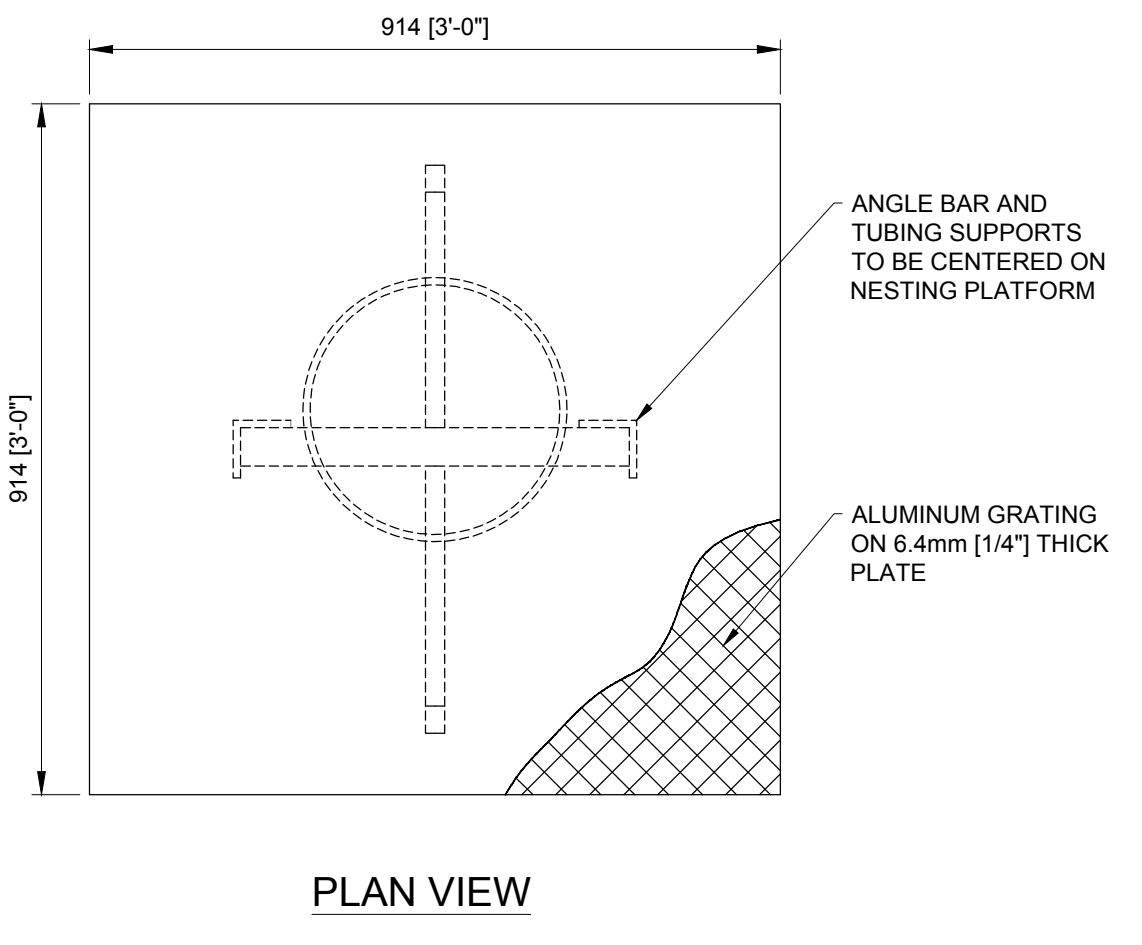


SECTION C 01  
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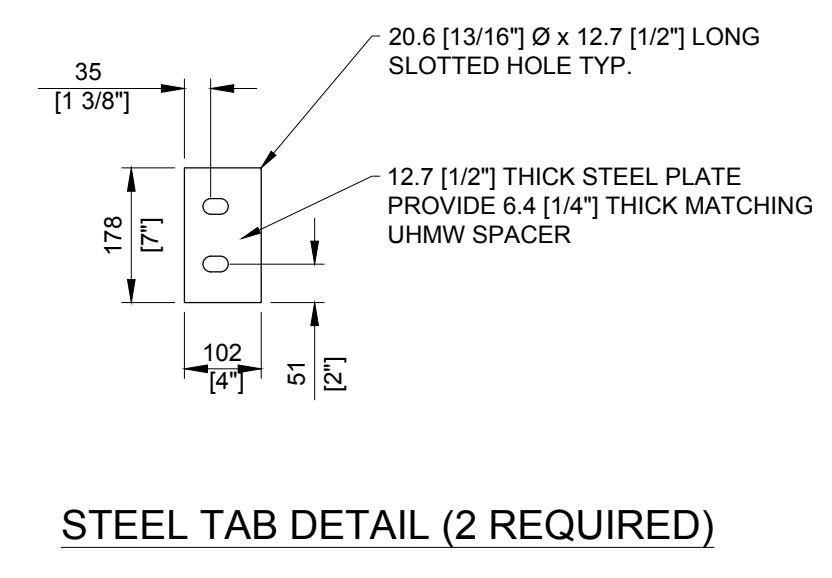


DETAIL 6 OSPREY NESTING PLATFORM 01  
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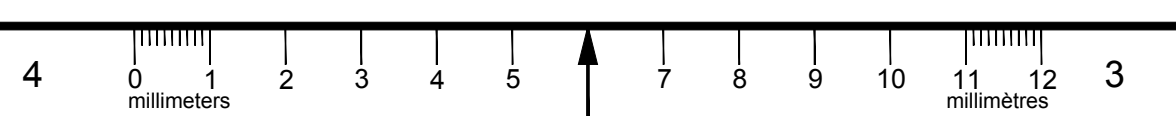
NOTE: NESTING PLATFORM ASSEMBLY SUPPLIED BY CCG INSTALLED BY CONTRACTOR



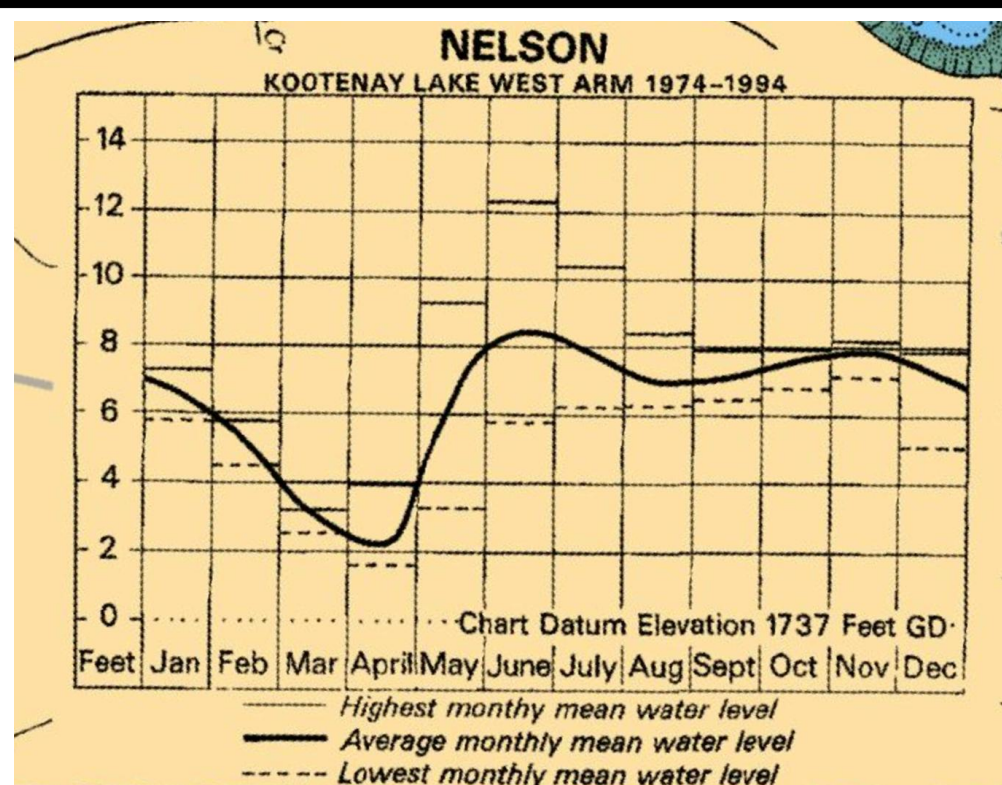
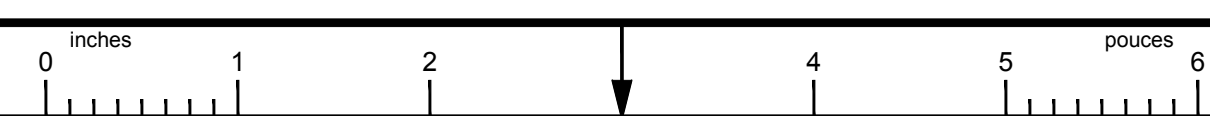
PLAN VIEW



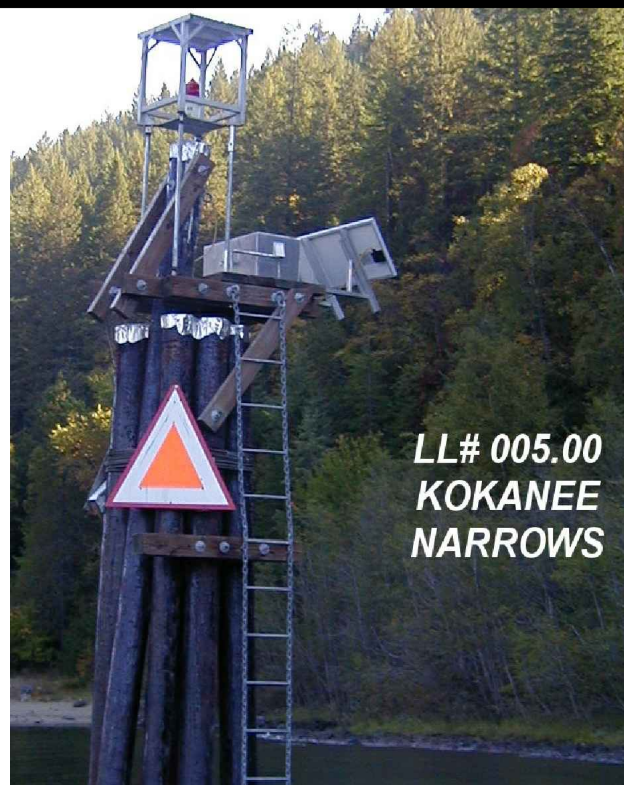
STEEL TAB DETAIL (2 REQUIRED)



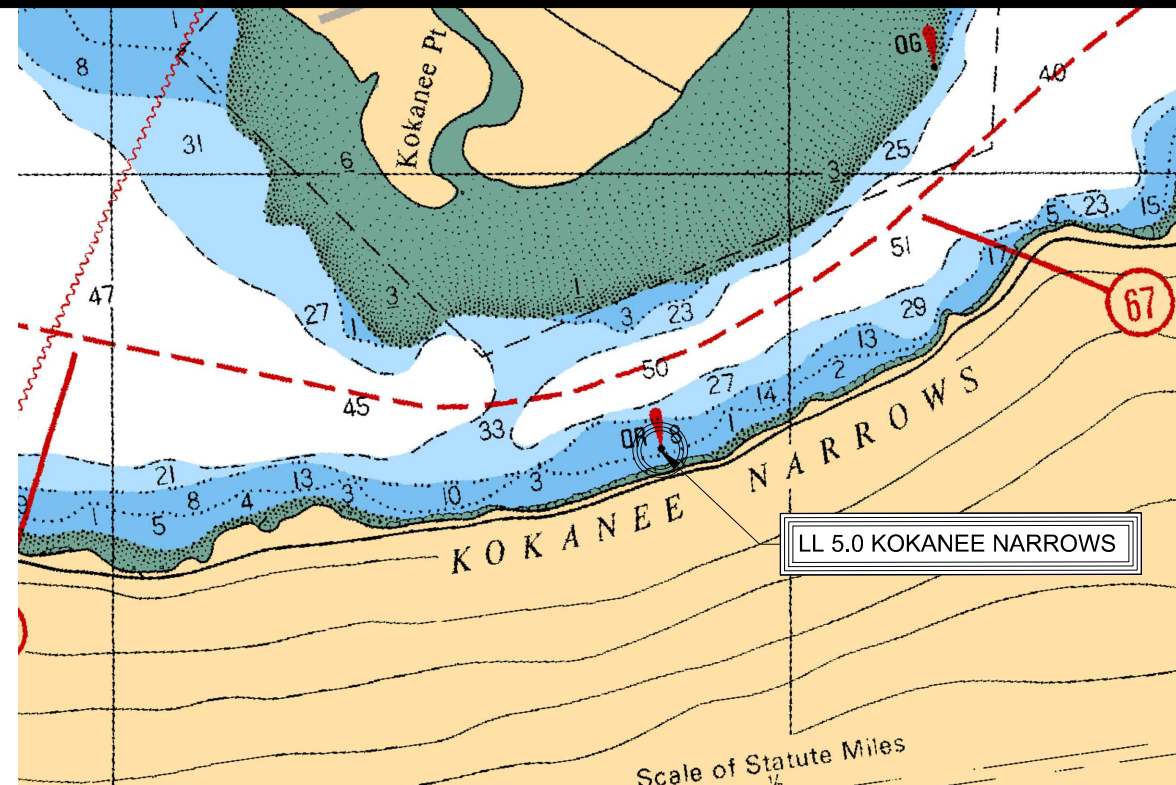
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A	ISSUE FOR REVIEW	AW	2017.03.01
rev	description	by	date
Asset - Actif			
LL 3.0 SEVEN MILE POINT			
Drawing - Dessin			
3 PILE DOLPHIN AND ALUMINUM PLATFORM			
drawn - dessiné			date
GAR			2017.05.30
designed - conception			date
AW			2017.05.30
checked - vérifié			date
AW			2017.05.30
approved - approuvé			date
AW			2017.05.30
CCG ref. no. - no. réf. GCC			scale - échelle
REF NO / PROJ NO / FILE NO	AS SHOWN		
drawing no. - no. dessin	sheet/feuille	rev-rév	
24006	02/02	B	



MONTHLY MEAN WATER LEVELS



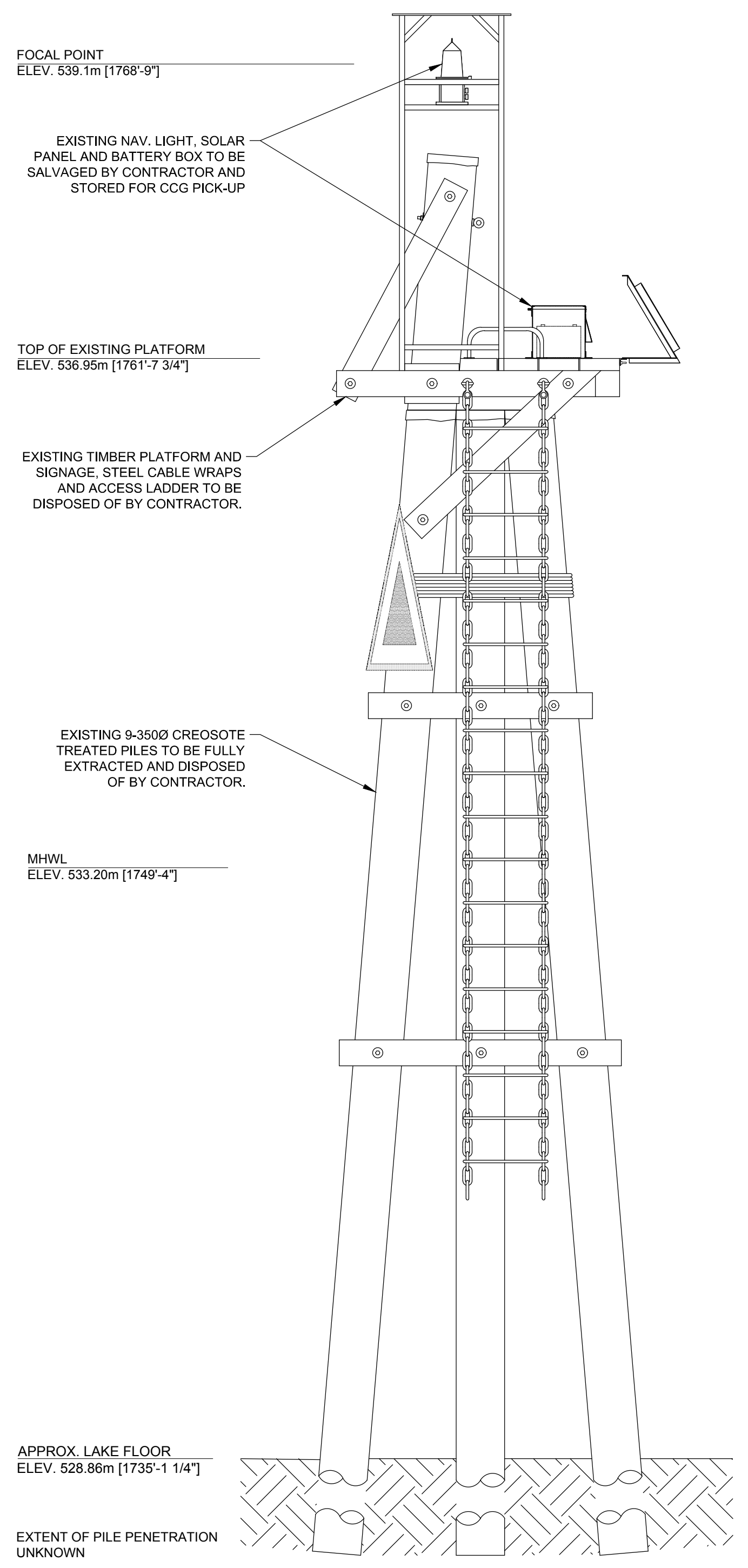
LL 5.0 KOKANEE NARROWS EXISTING STRUCTURE



LOCATION CHARTLETT (PART OF 3050) N.T.S.

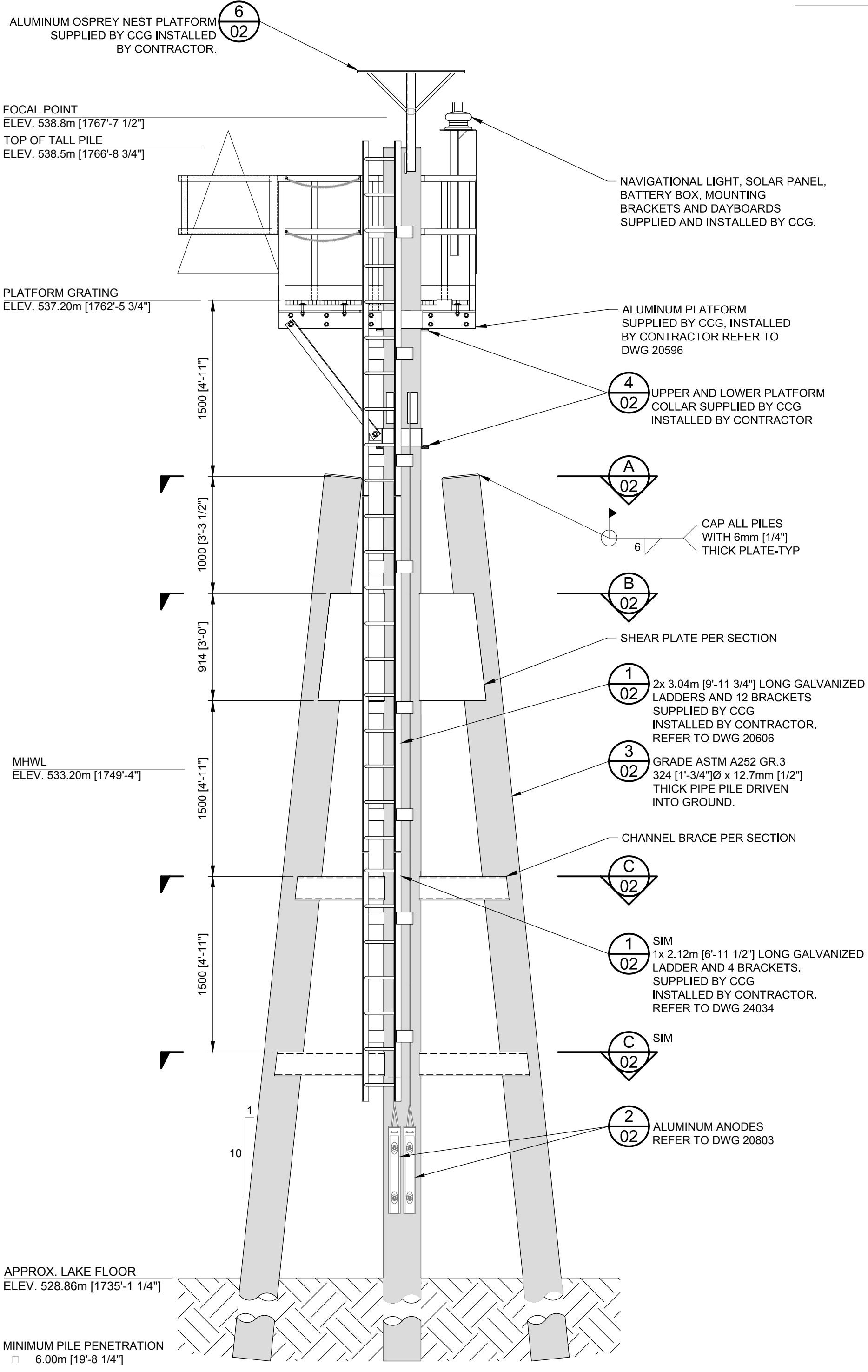
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  - ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
  - STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
    - CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
    - HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
    - COLD FORMED METAL: CAN/CSA-S136
    - STRUCTURAL BOLTS: ASTM-A325
    - ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
  - ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
  - ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS. CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
  - BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
  - STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
  - BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
  - GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
  - ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET
  - HOT DIP GALVANIZING TO A123M MIN COATING 600g/m<sup>2</sup>
  - ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.



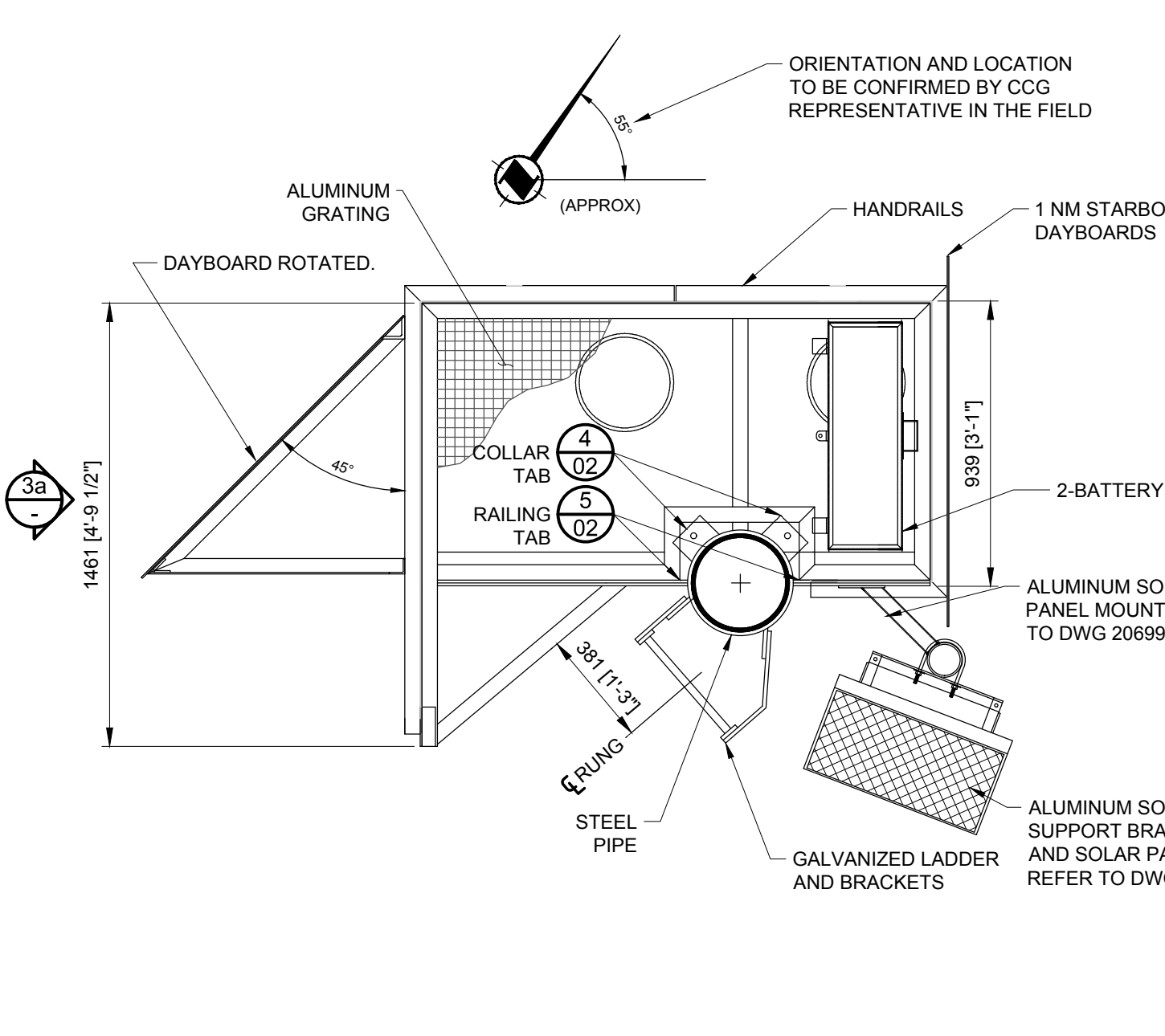
ELEVATION VIEW

EXISTING 1 9 TIMBER PILE DOLPHIN SCALE: 1:30

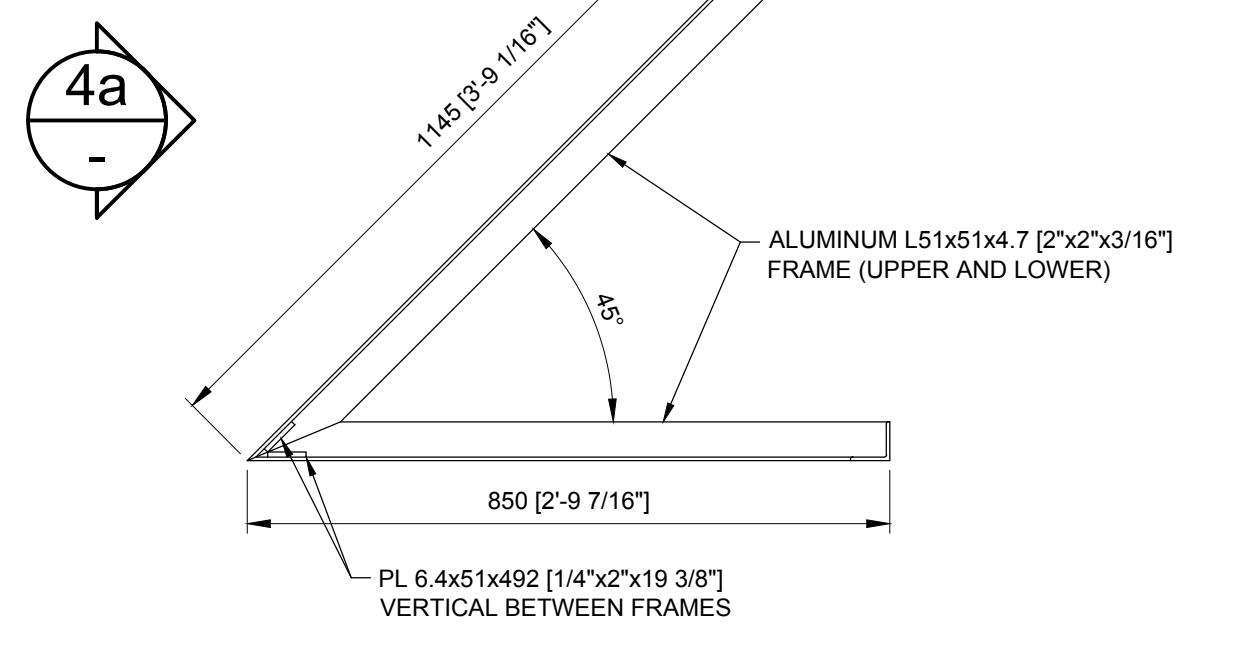


ELEVATION VIEW

PROPOSED 2 3 STEEL PILE DOLPHIN SCALE: 1:30

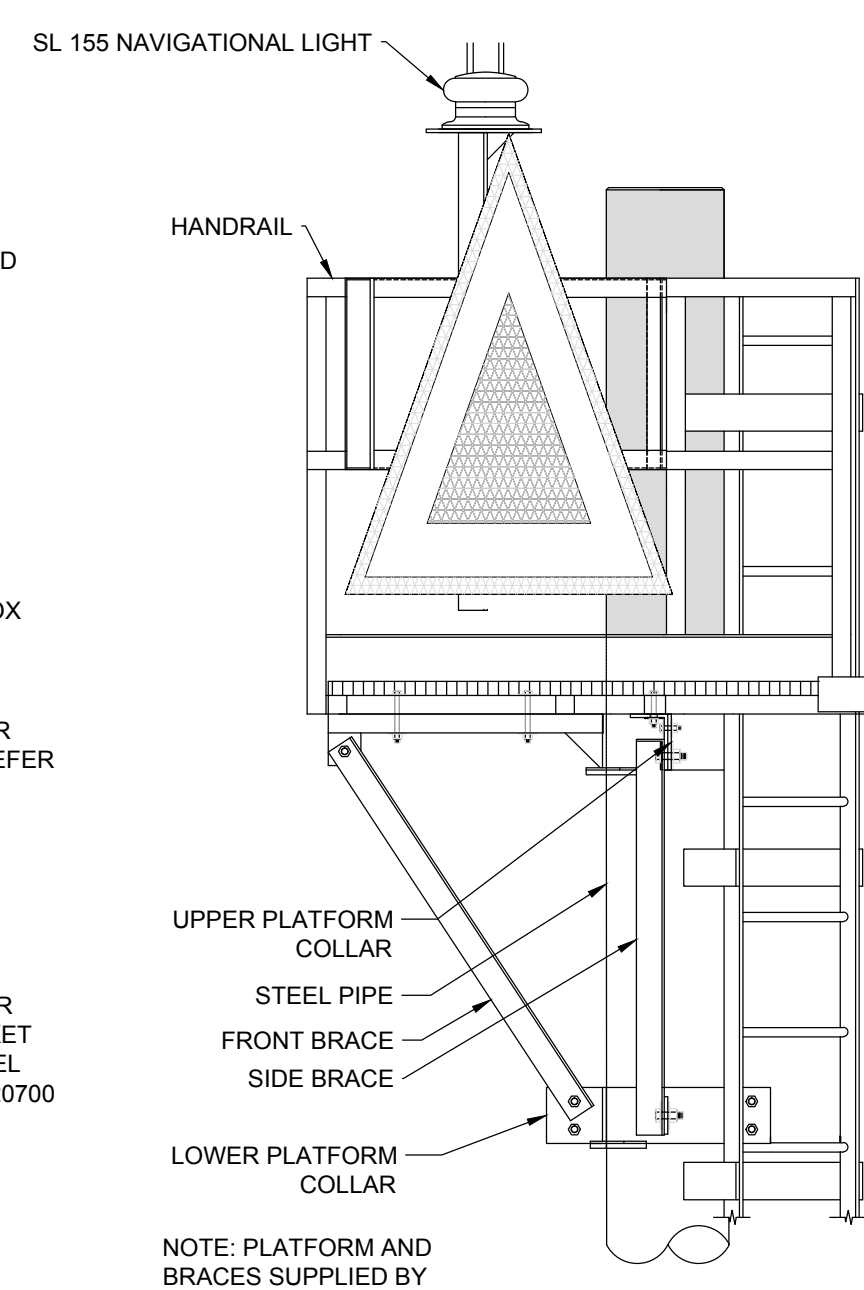


PLAN SCALE: 1:20

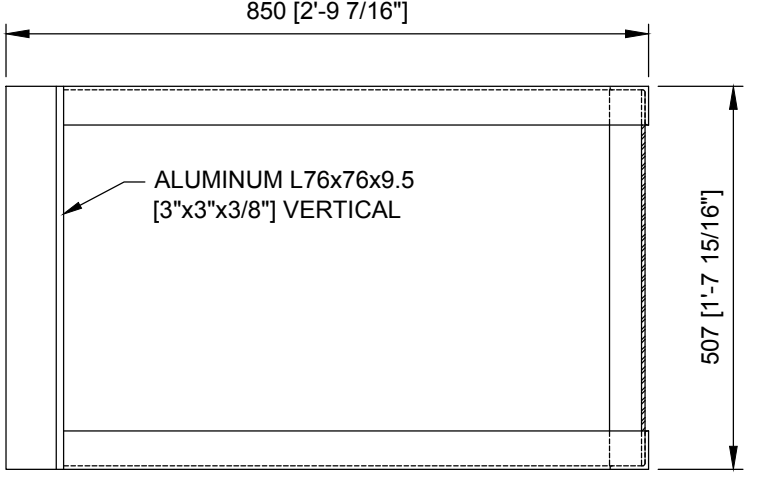


PLAN VIEW

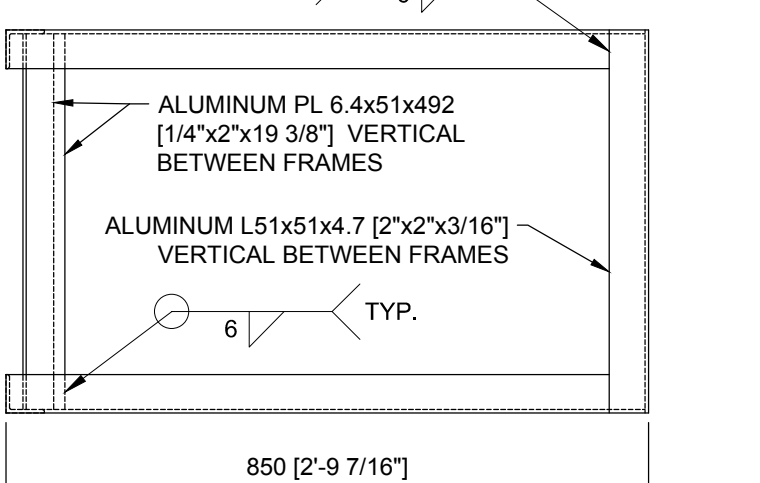
DETAIL 4 DAYBOARD MOUNTING FRAME SCALE: 1:20



ELEVATION 3a SCALE: 1:20



ELEVATION 4a SCALE: 1:20



ELEVATION 4b SCALE: 1:20

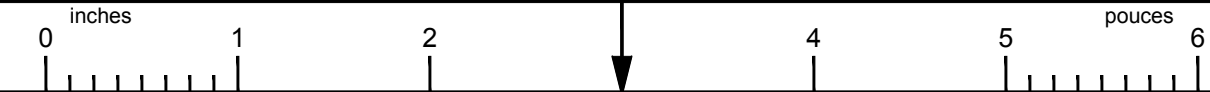
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A	ISSUE FOR REVIEW	AW	2017.03.01
rev	description	by	date

Asset - Actif  
LL 5.0 KOKANEE NARROWS

Drawing - Dessin  
3 PILE DOLPHIN AND ALUMINUM PLATFORM

drawn - dessiné	date
GAR	2017.05.30
designed - conception	date
AW	2017.05.30
checked - vérifié	date
AW	2017.05.30
approved - approuvé	date
AW	2017.05.30

CCG ref. no. - no. réf. GCC	scale - échelle	AS SHOWN
24007	01/02	B

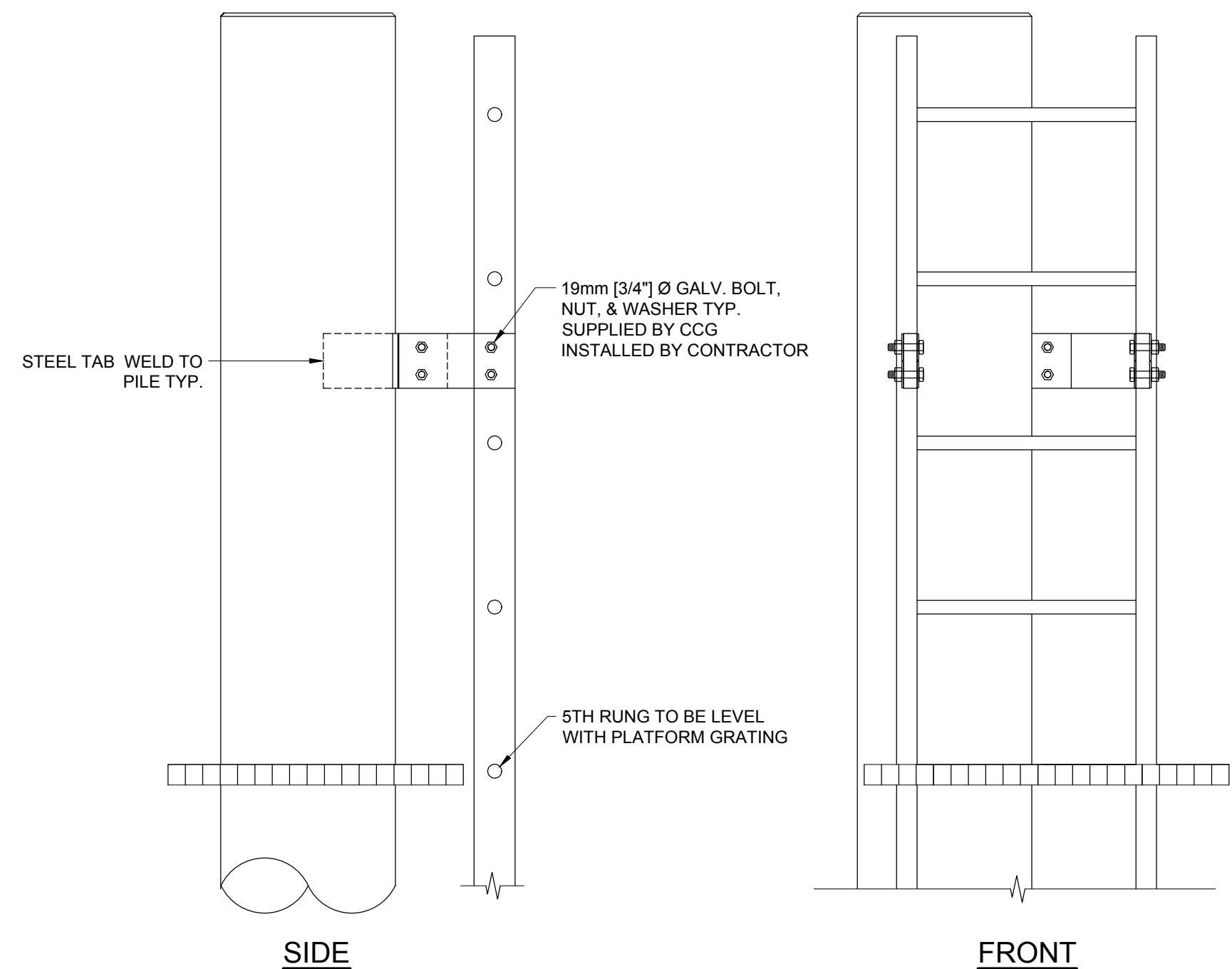
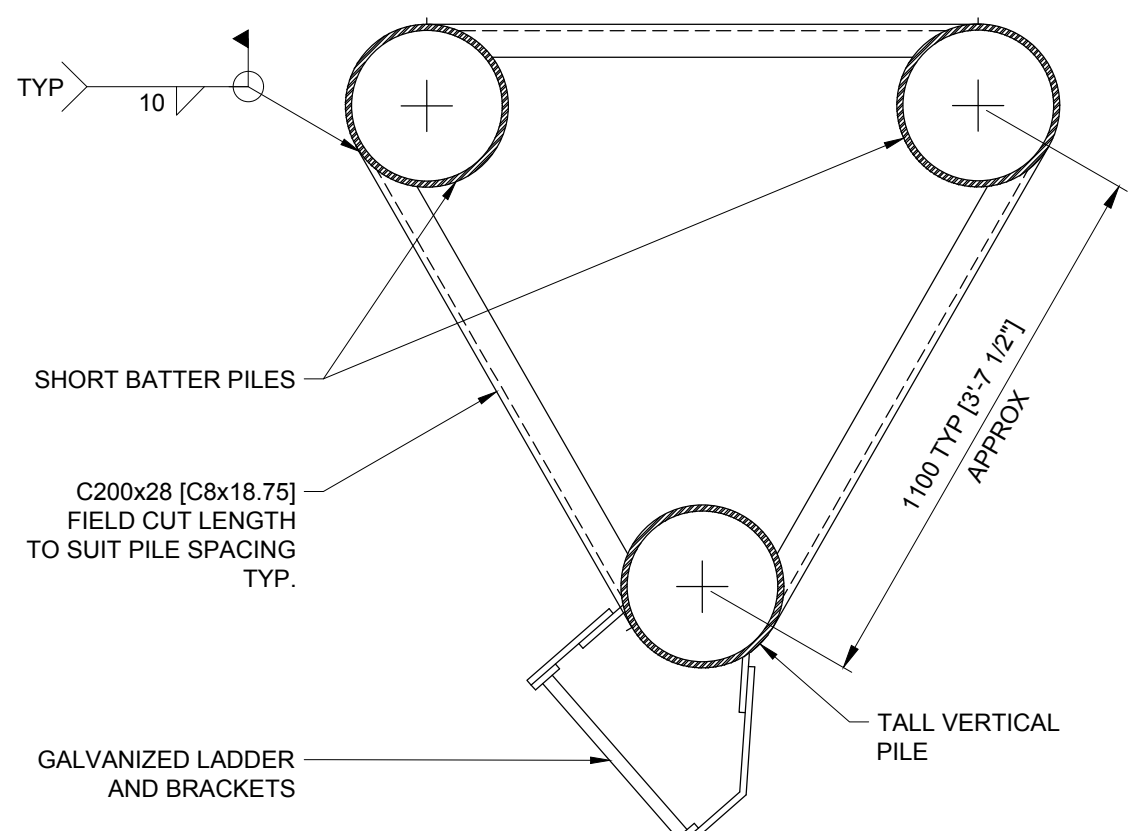
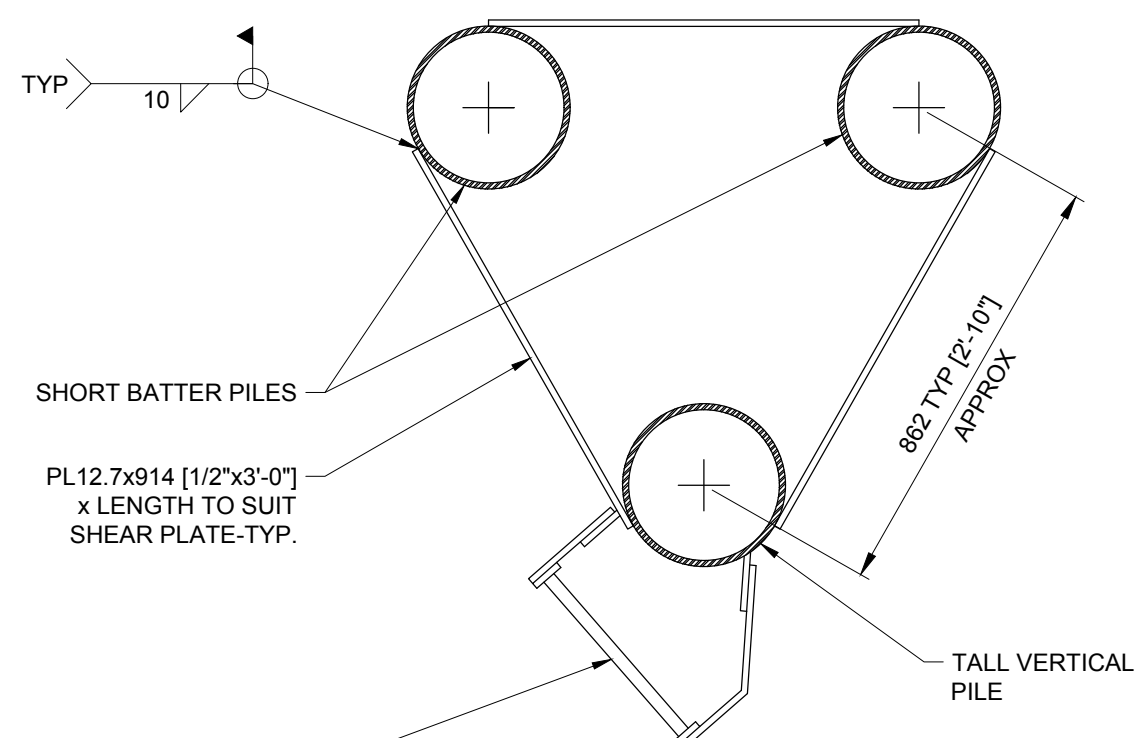
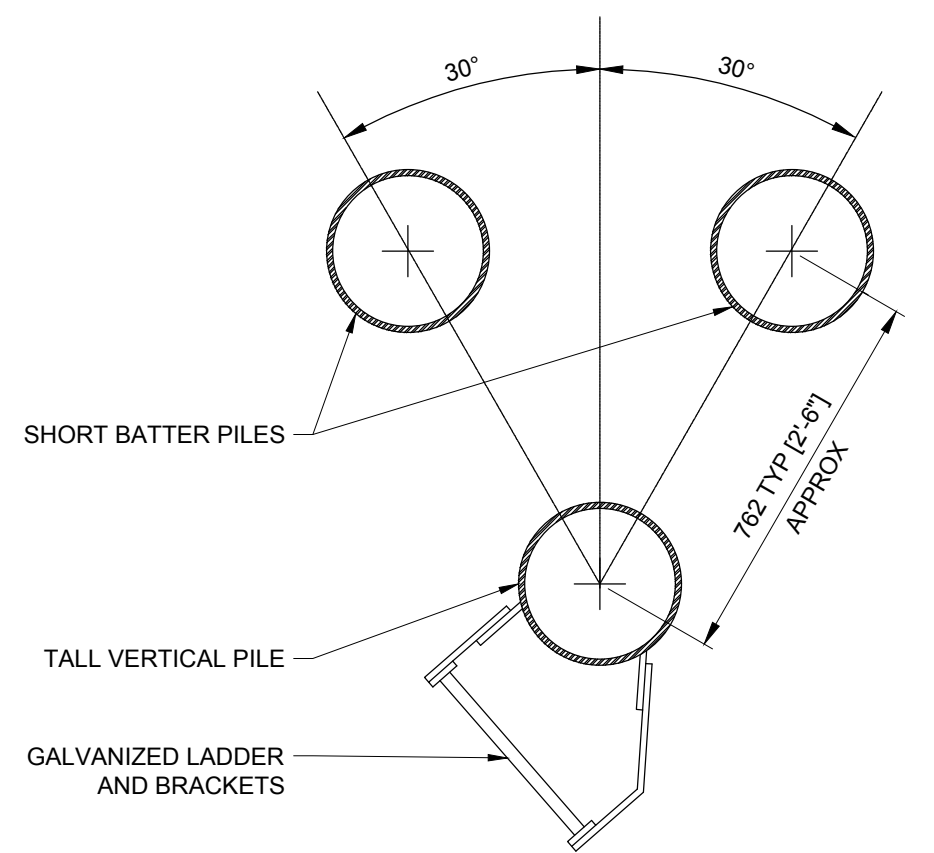
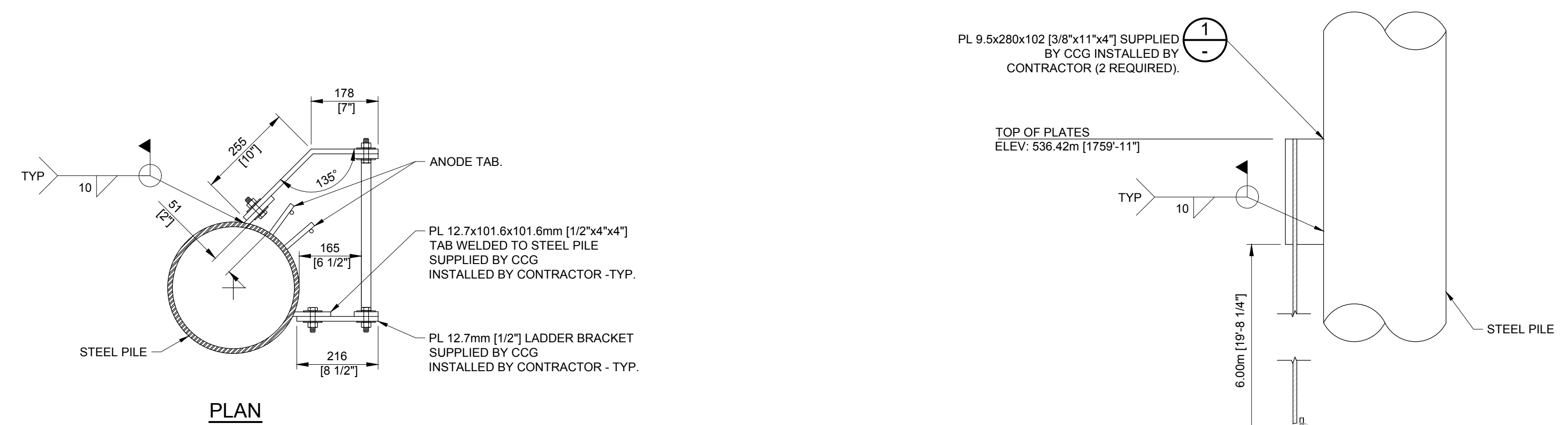


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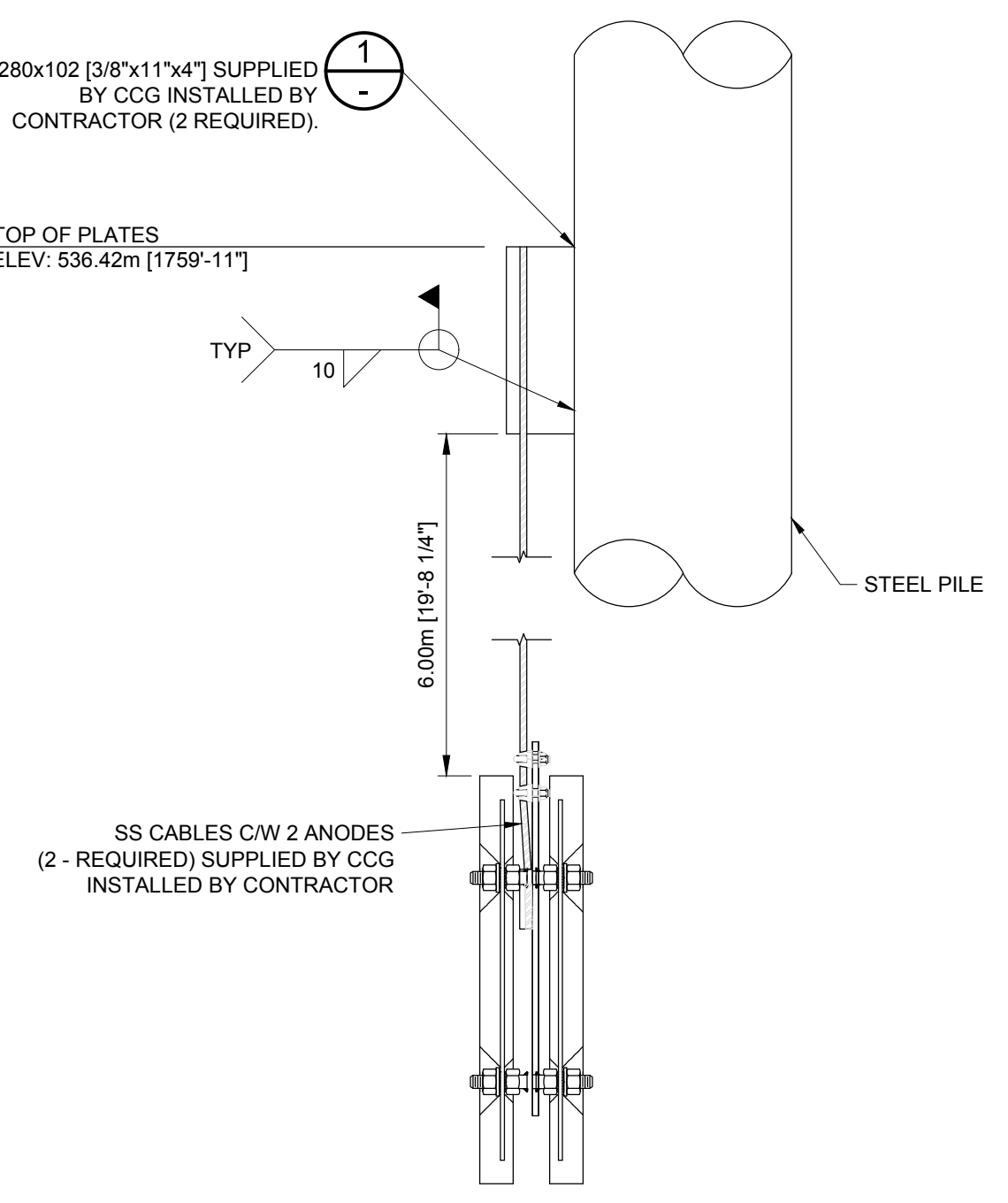
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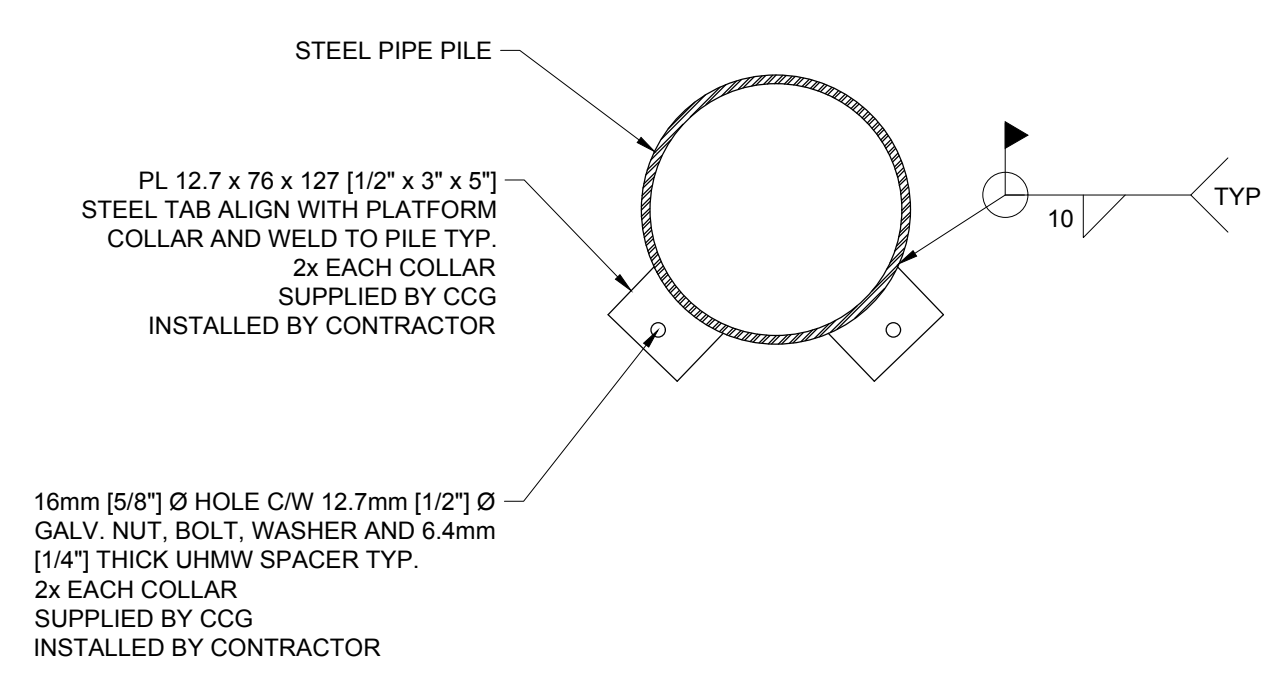
**DETAIL 2 ANODES**

SCALE: 1:10



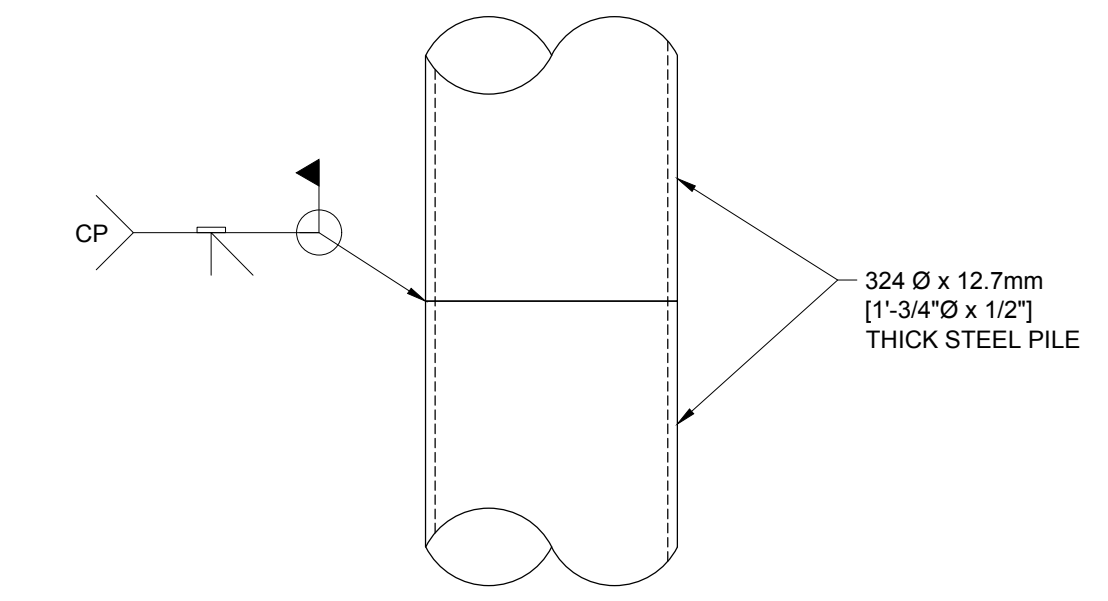
**DETAIL 4 COLLAR TABS**

SCALE: 1:10



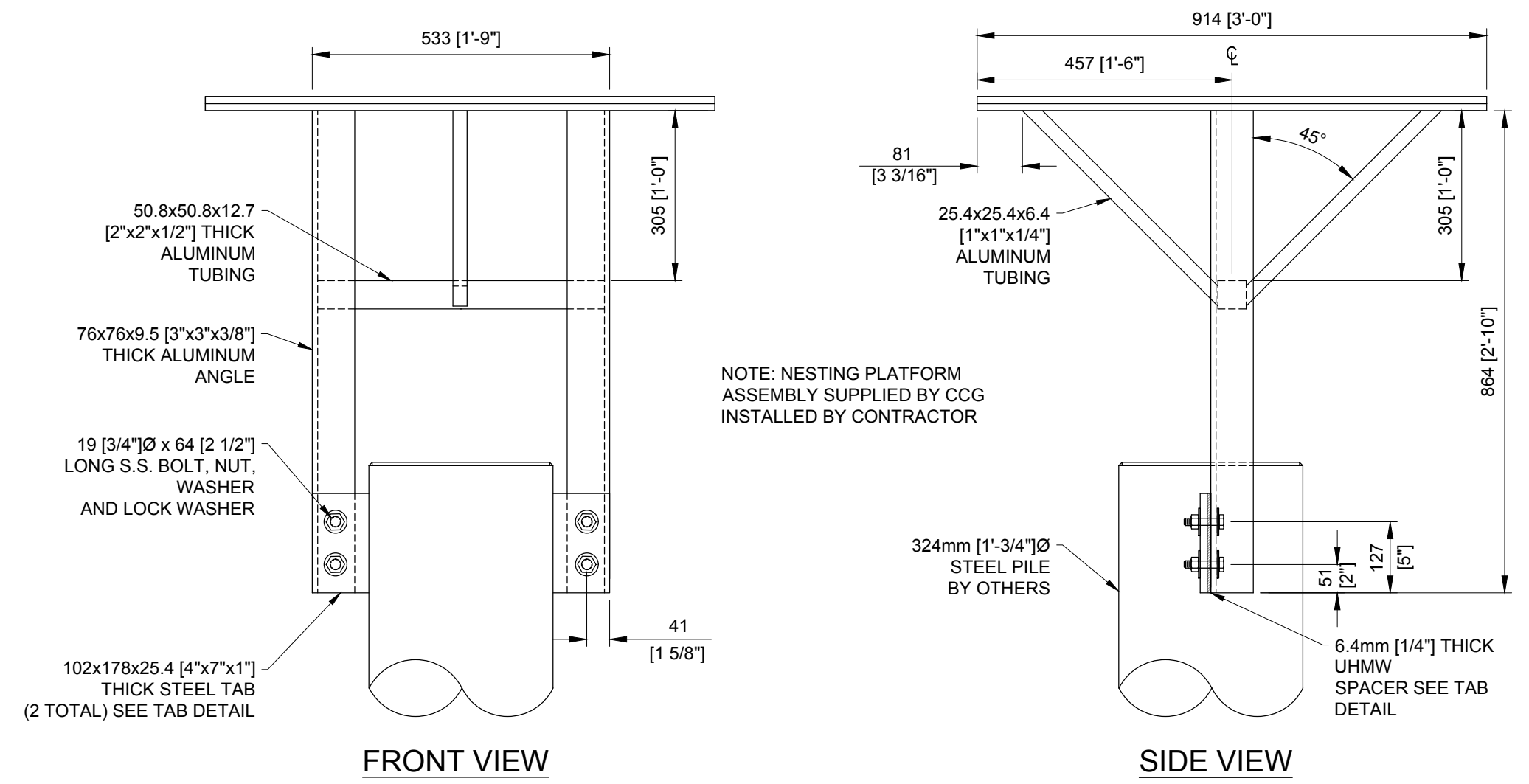
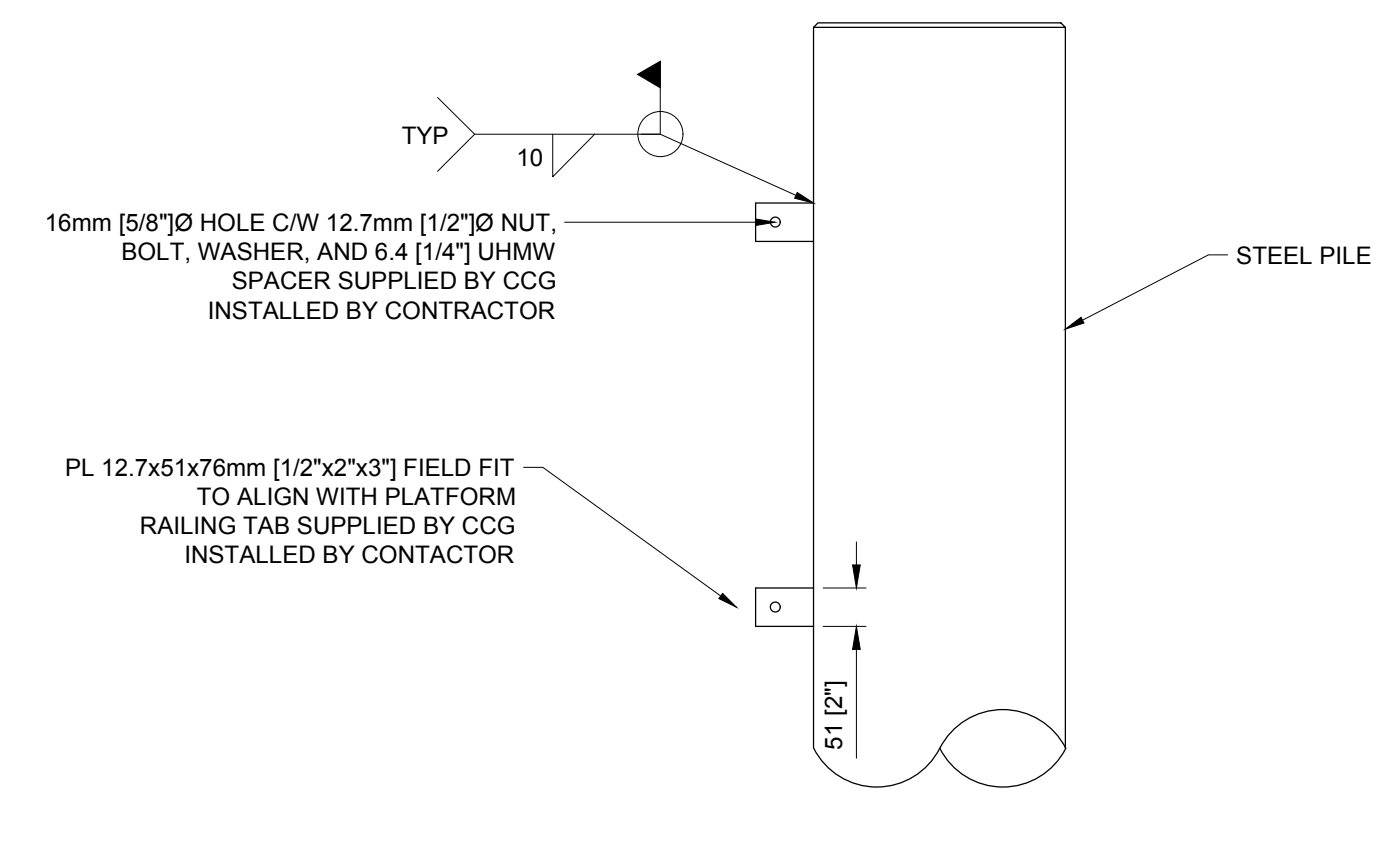
**DETAIL 3 PILE SPLICE**

SCALE: 1:10



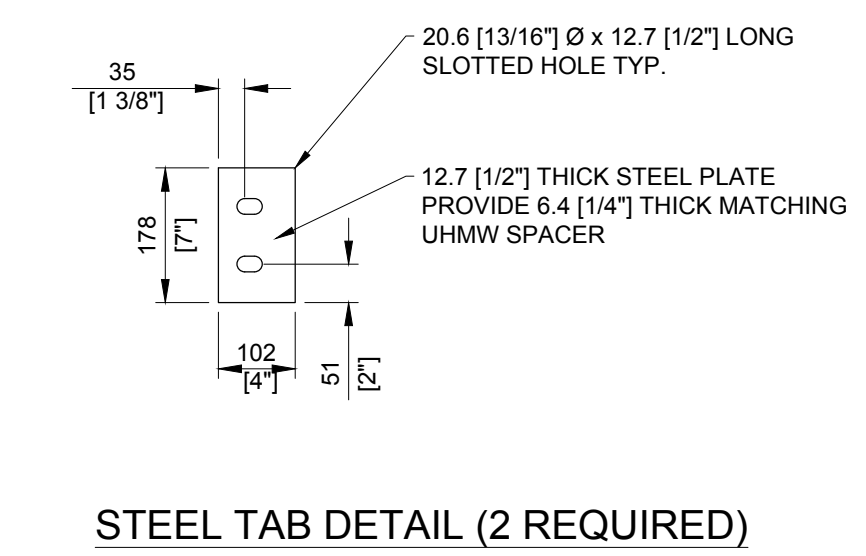
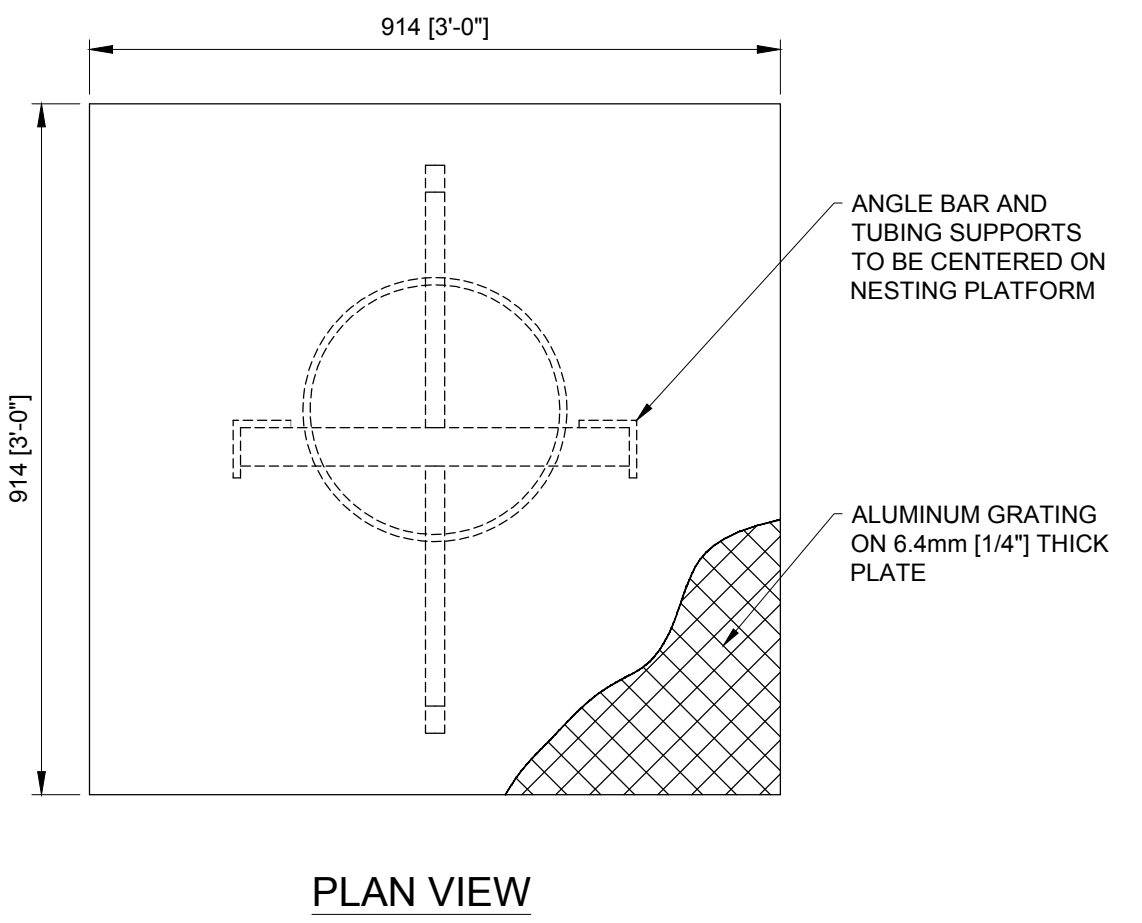
**DETAIL 5 RAILING TAB**

SCALE: 1:10



**DETAIL 4 COLLAR TABS**

SCALE: 1:10



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A	ISSUE FOR REVIEW	AW	2017.03.01
rev	description	by	date

Asset - Actif  
**LL 5.0 KOKANEE NARROWS**

Drawing - Dessin  
**3 PILE DOLPHIN AND ALUMINUM PLATFORM**

drawn - dessiné	date
GAR	2017.05.30
designed - conception	date
AW	2017.05.30
checked - vérifié	date
AW	2017.05.30
approved - approuvé	date
AW	2017.05.30
CCG ref. no. - no. réf. GCC	scale - échelle
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24007	02/02
drawing no. - no. dessin	sheet/feuille
24007	B



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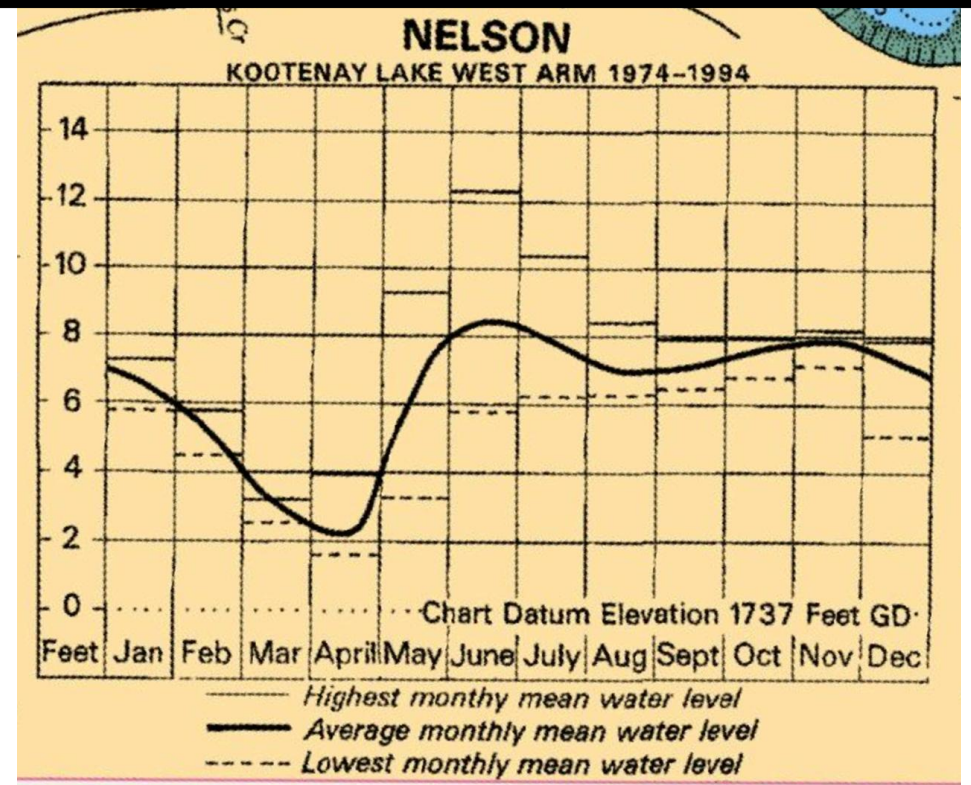
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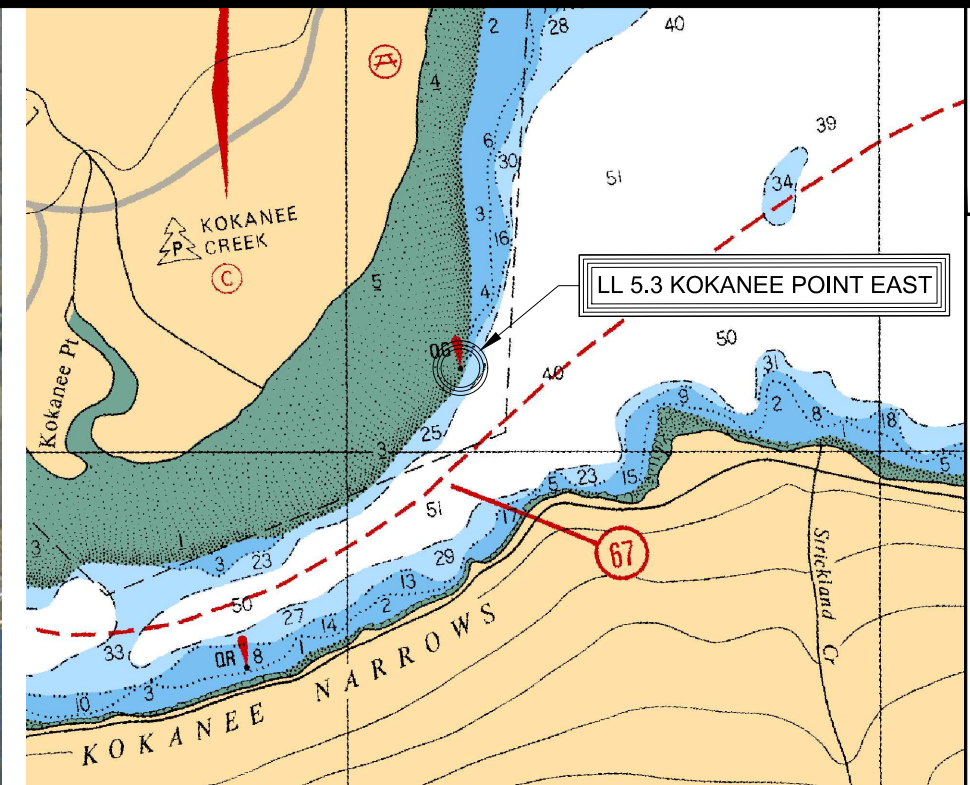
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MONTHLY MEAN WATER LEVELS



LL 5.3 KOKANEE POINT EAST EXISTING STRUCTURE



LOCATION CHART LETT (PART OF 3050) N.T.S.

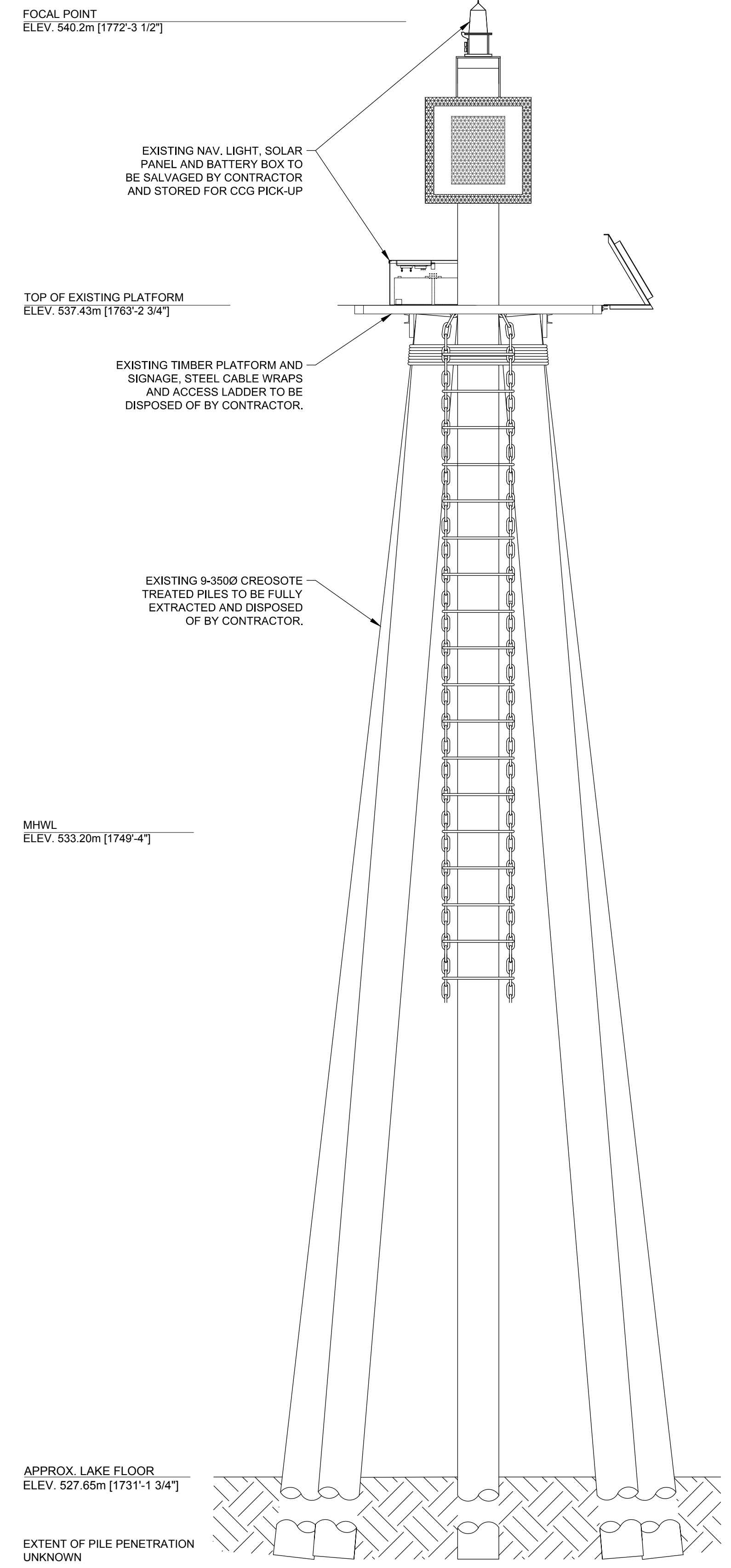
- GENERAL NOTES**
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  2. ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAS BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE CONDITIONS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
  3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
  4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
  5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
  6. CONTRACTOR TO MEASURE AND VERIFY PILE LENGTHS PRIOR TO ORDERING MATERIALS.
  7. CCG SUPPLIED MATERIALS WILL BE DELIVERED BY CCG TO THE CONTRACTOR.
  8. ELEVATIONS SHOWN ARE APPROXIMATE.
  9. WATER LEVELS AND GROUND ELEVATIONS ARE REFERENCED TO CHART DATUM.

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  2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2.
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    - 4 STRUCTURAL BOLTS: ASTM-A325
    - 5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
  4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT BE PAINTED.
  5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS. CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
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  9. GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED.
  10. ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET.
  11. HOT DIP GALVANIZING TO A123M MIN COATING 600g/m<sup>2</sup>.
  12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

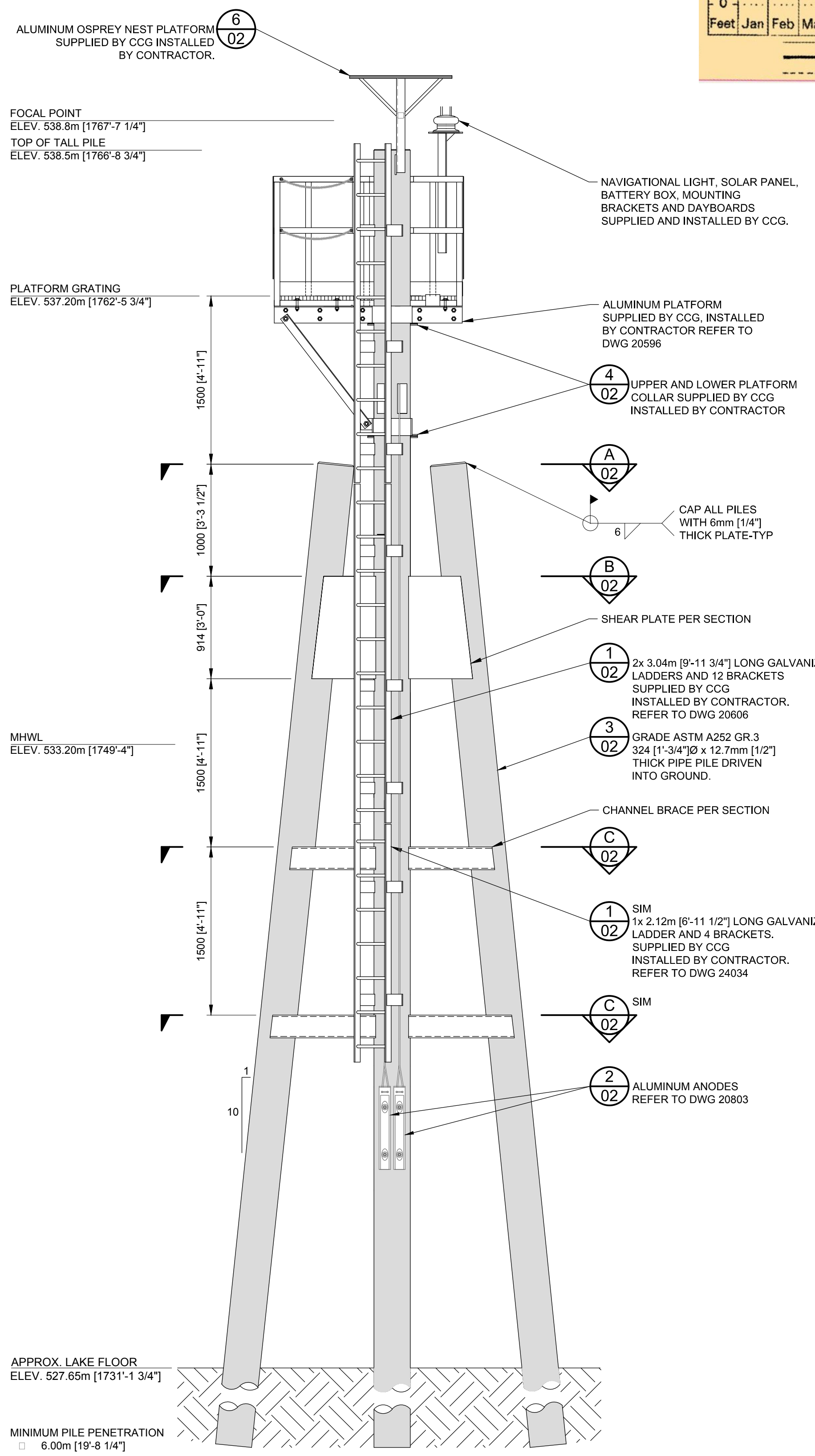
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A	ISSUE FOR REVIEW	AW	2017.03.01
rev	description	by	date

Asset - Actif  
**LL 5.3 KOKANEE POINT EAST**  
Drawing - Dessin  
**3 PILE DOLPHIN AND ALUMINUM PLATFORM**

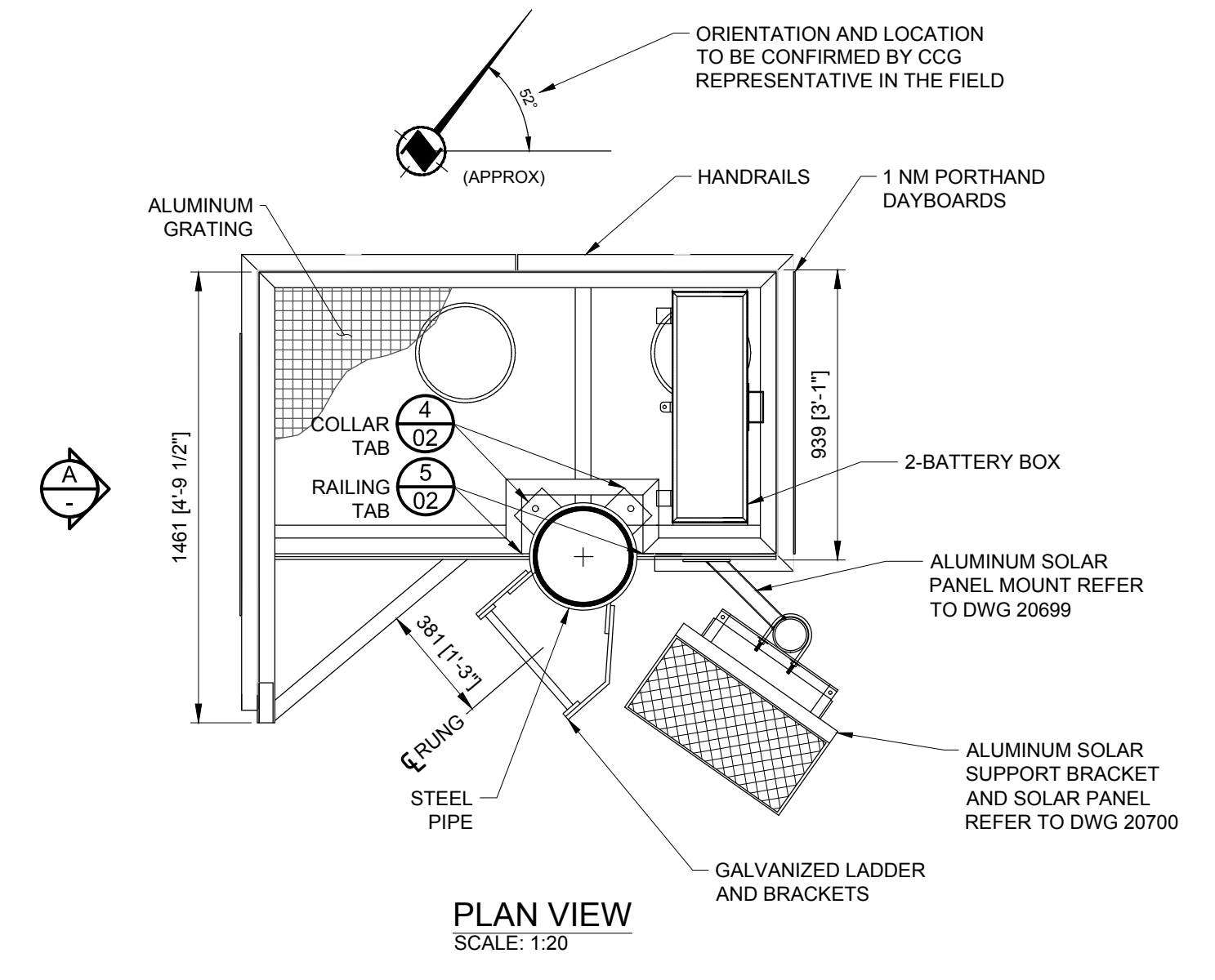
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drawing no. - no. dessin	sheet/feuille
24008	01/02 B



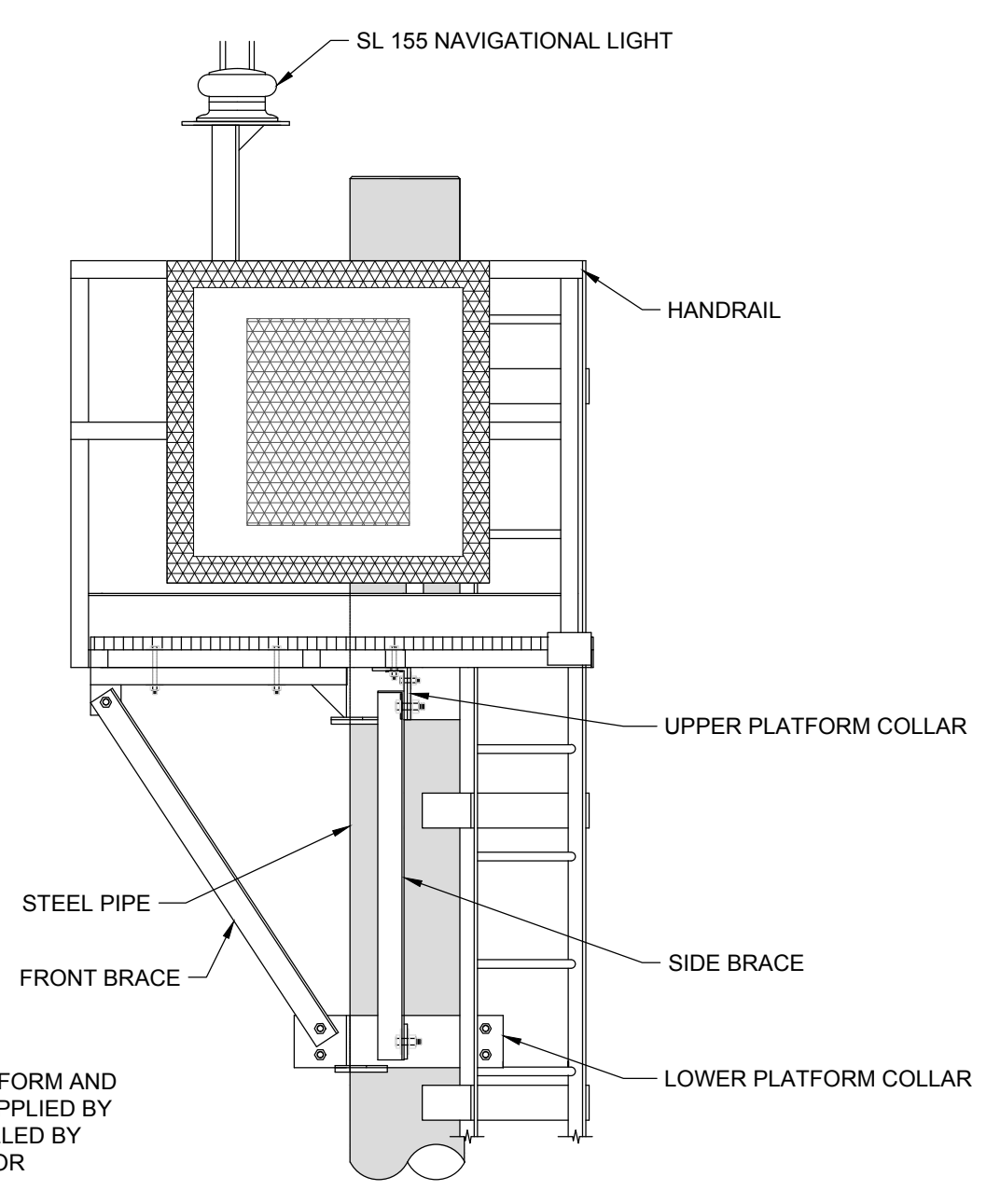
EXISTING 1 9 TIMBER PILE DOLPHIN  
SCALE: 1:30



PROPOSED 2 3 STEEL PILE DOLPHIN  
SCALE: 1:30



PLAN VIEW  
SCALE: 1:20



ELEVATION A  
SCALE: 1:20

NOTE: PLATFORM AND BRACES SUPPLIED BY CCG INSTALLED BY CONTRACTOR

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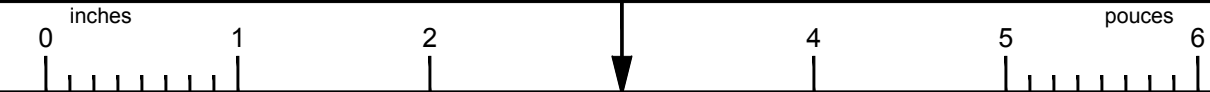
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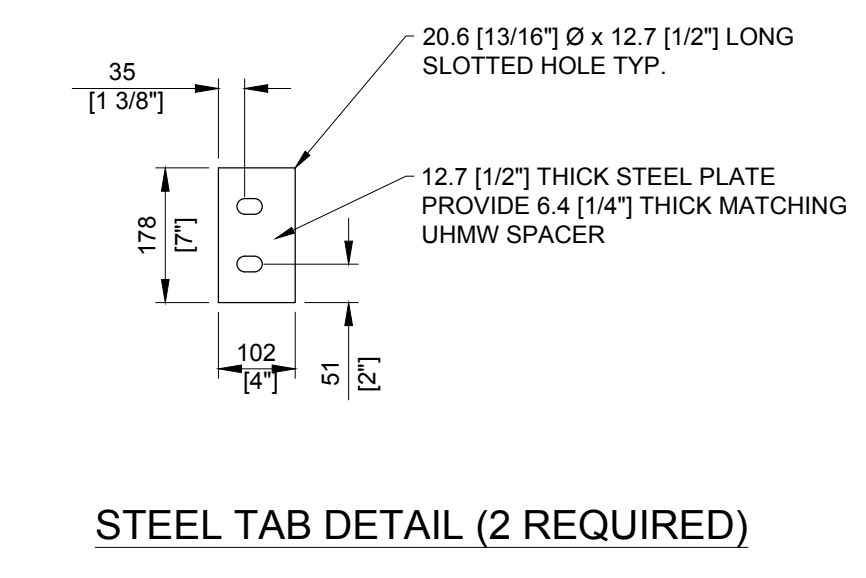
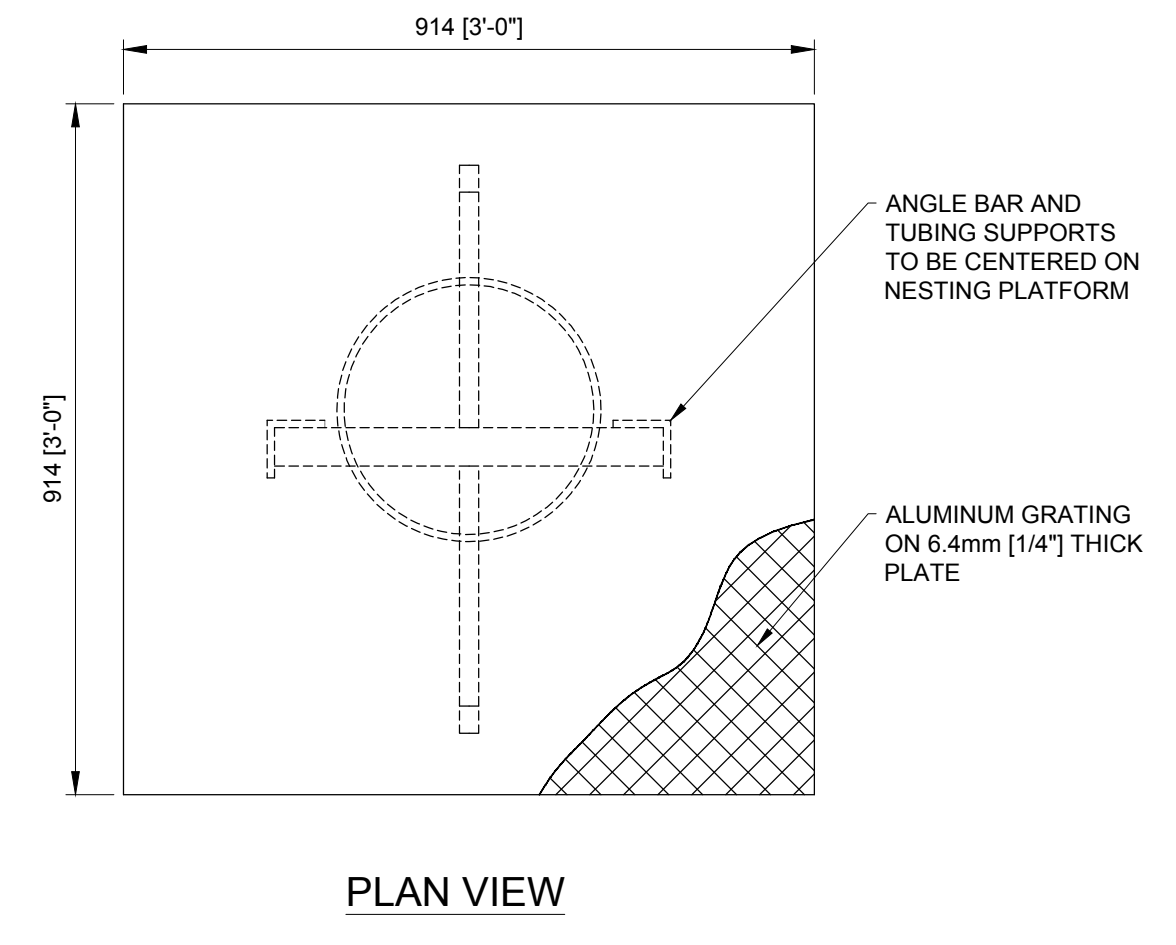
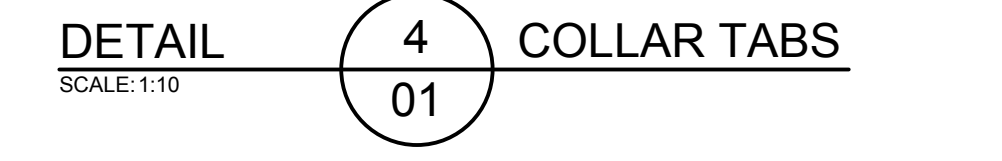
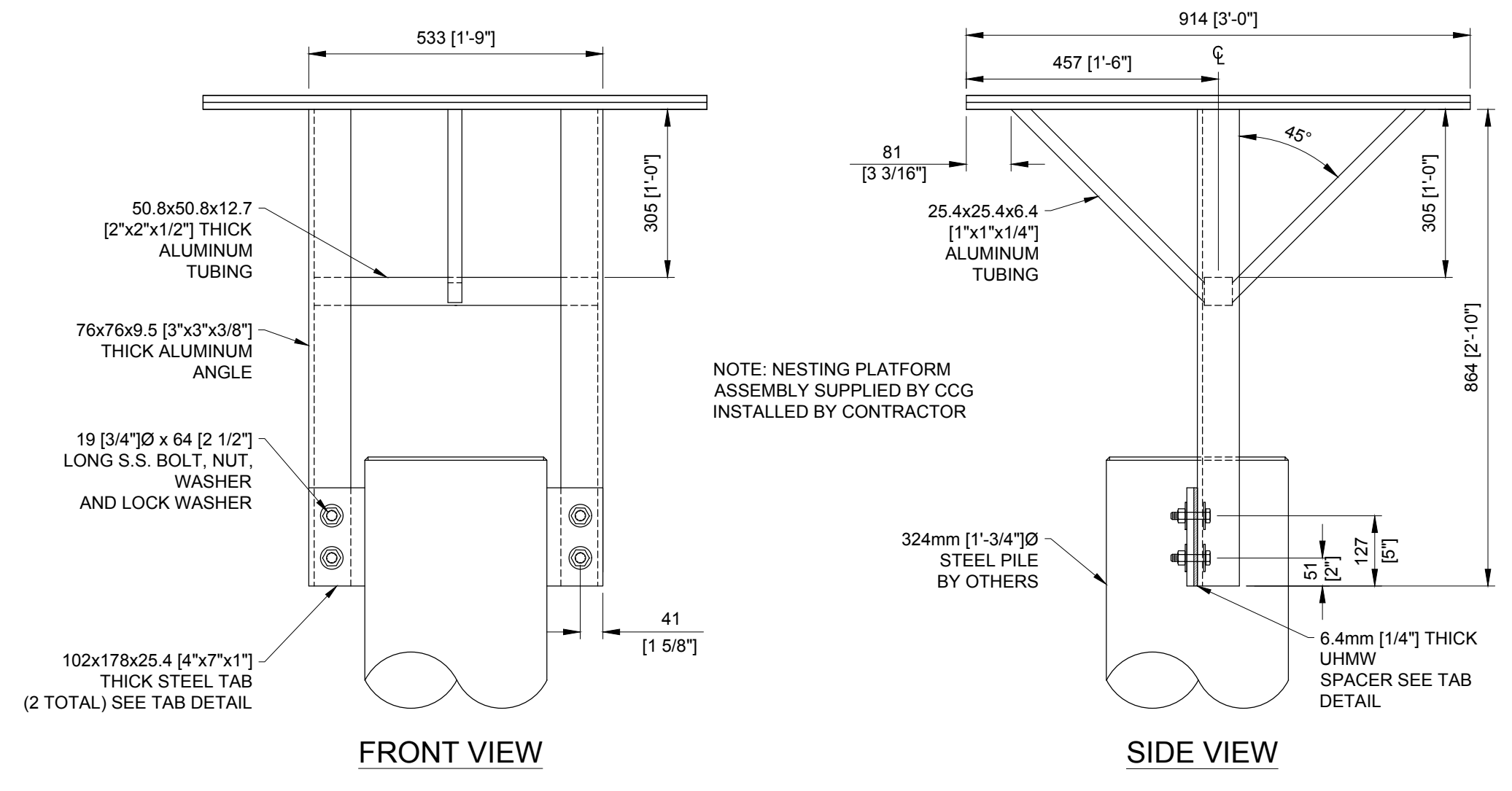
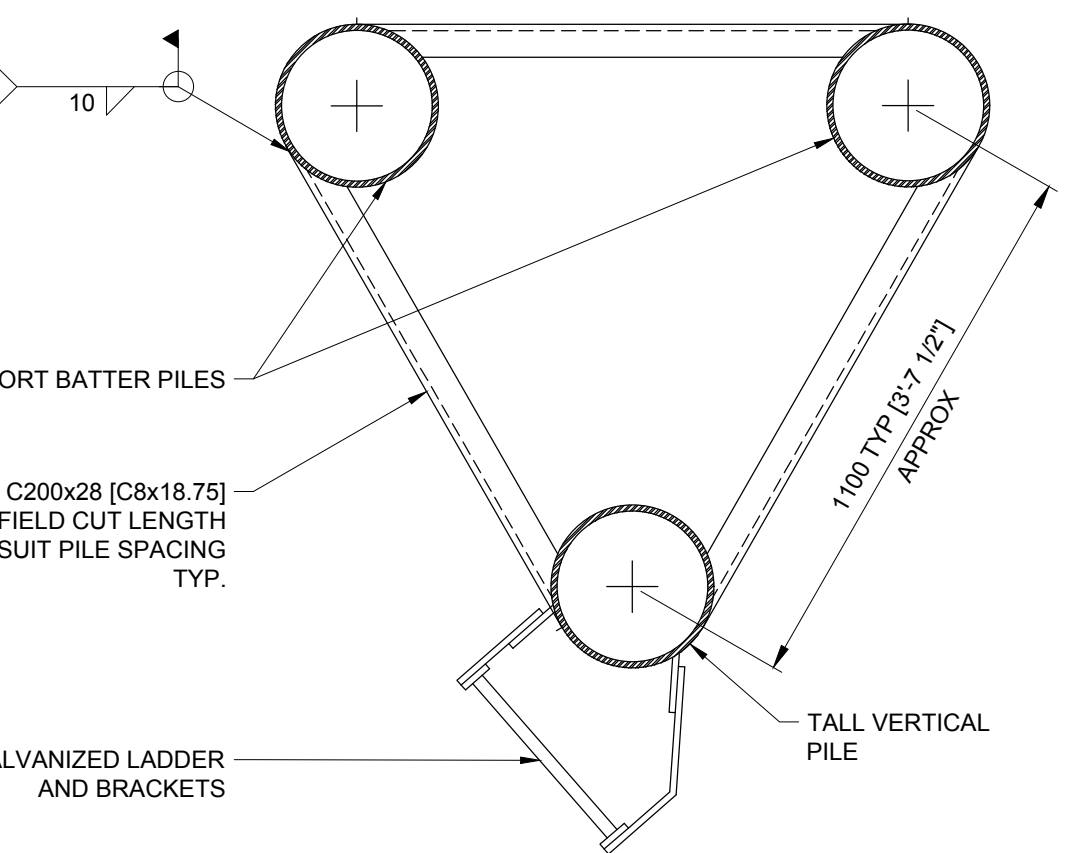
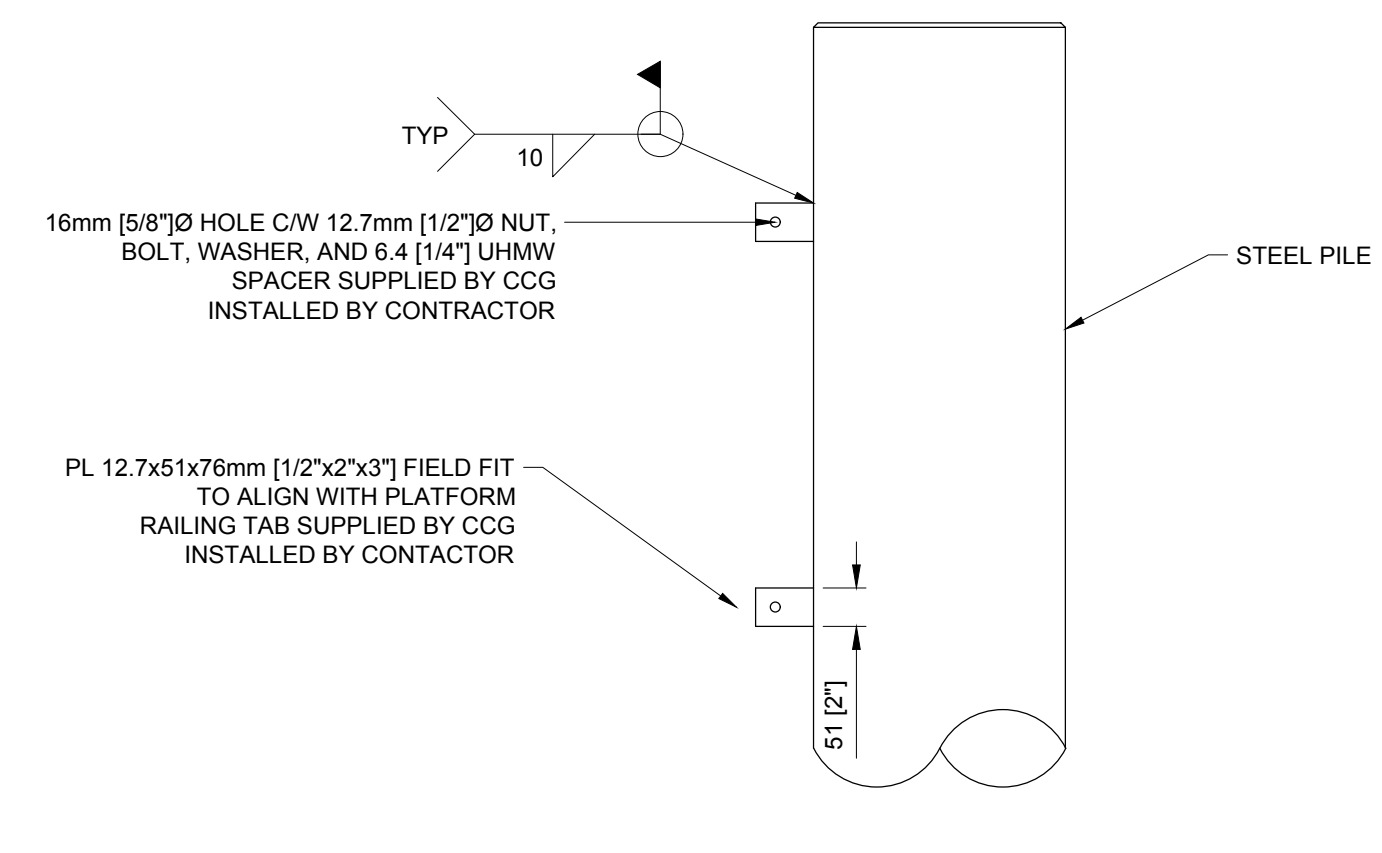
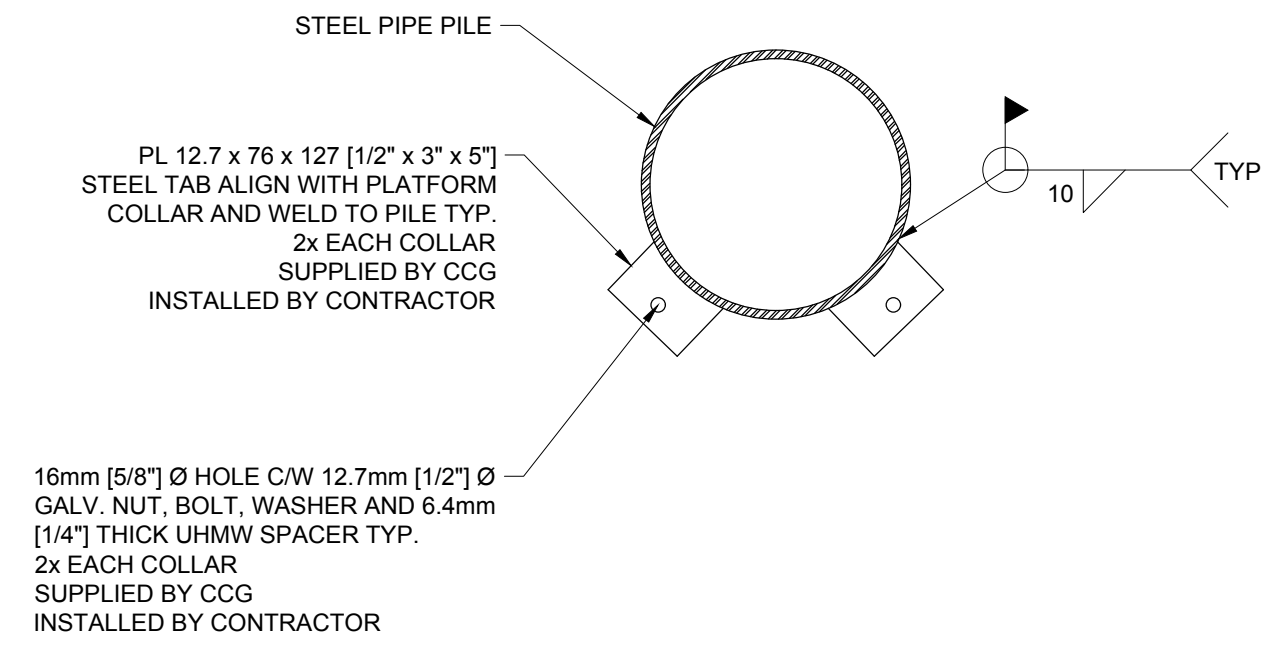
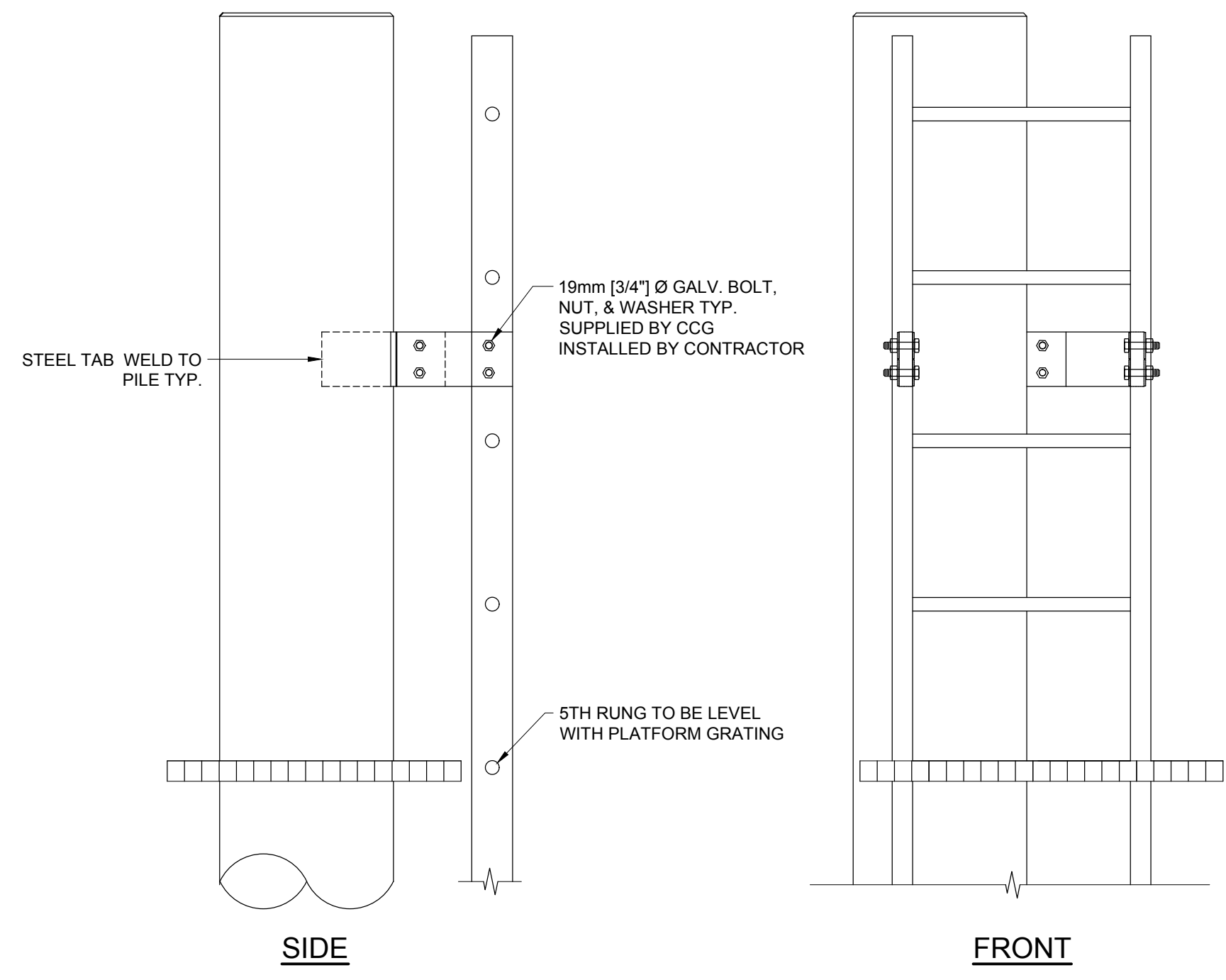
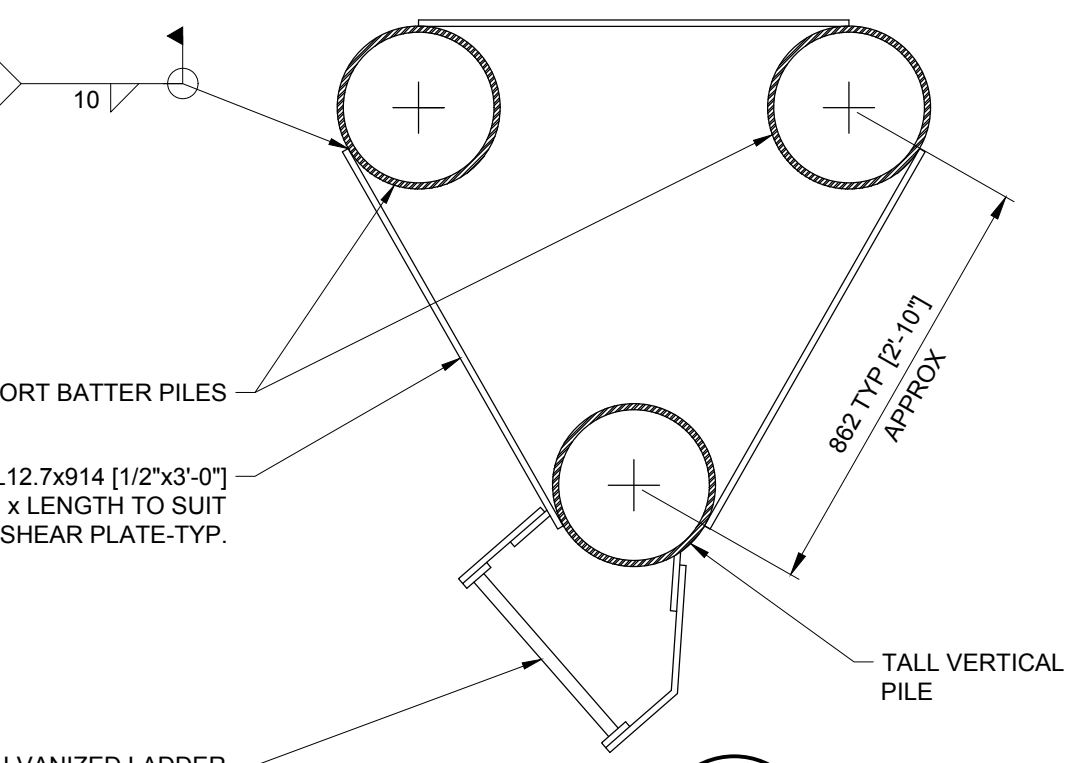
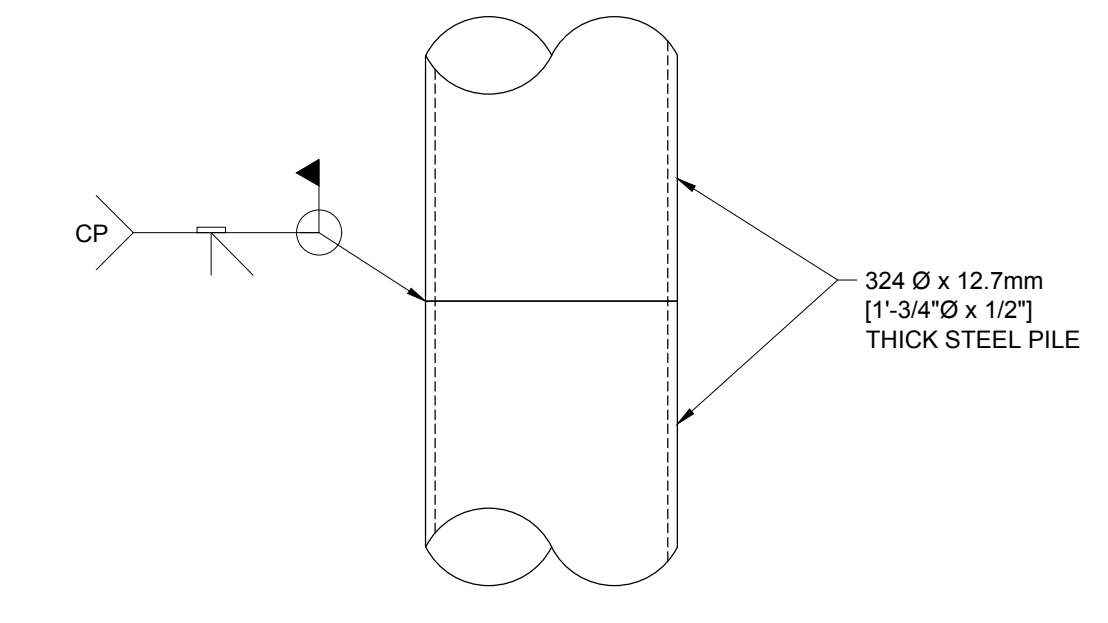
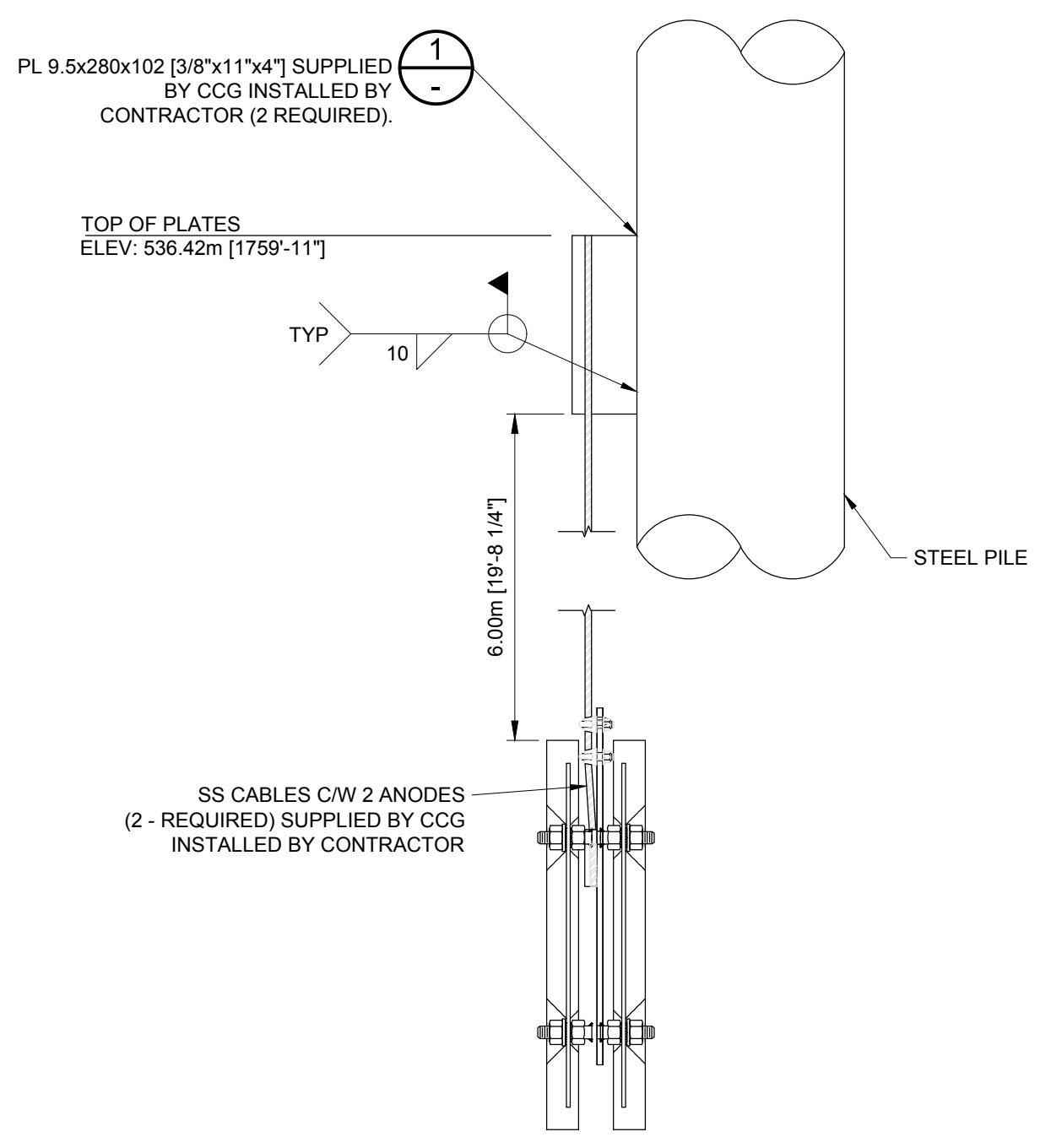
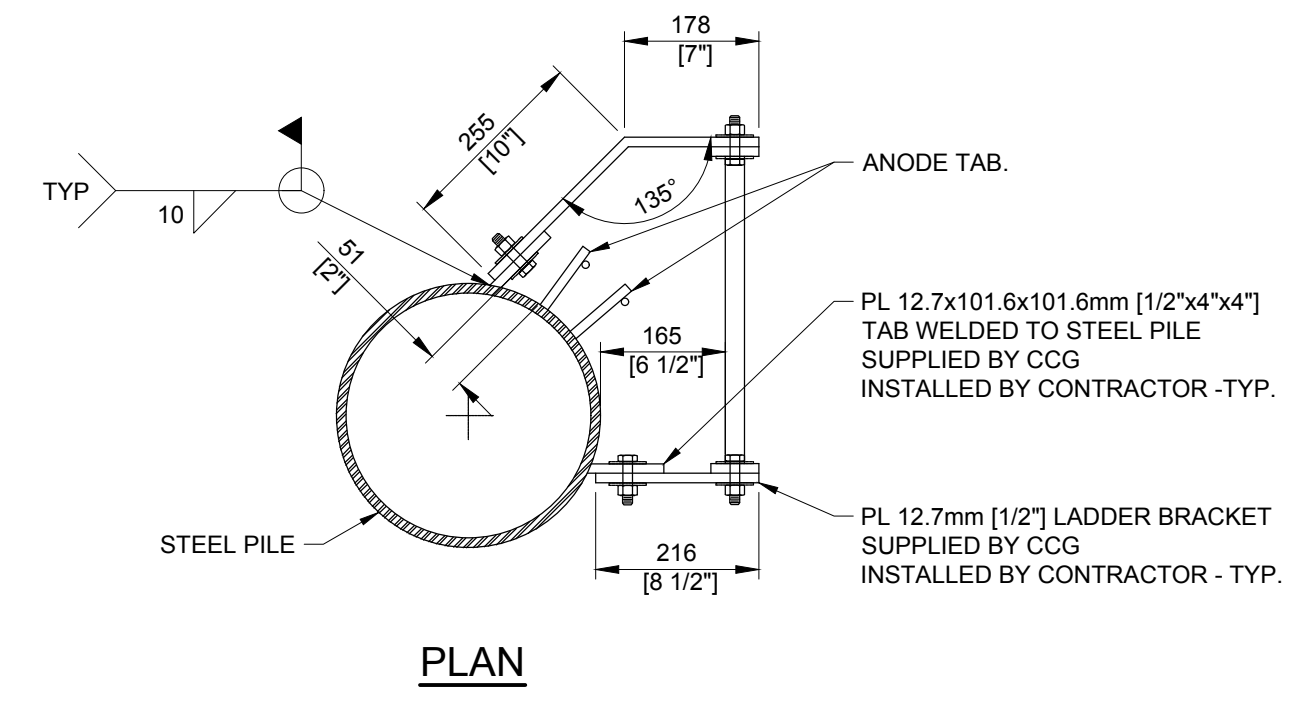
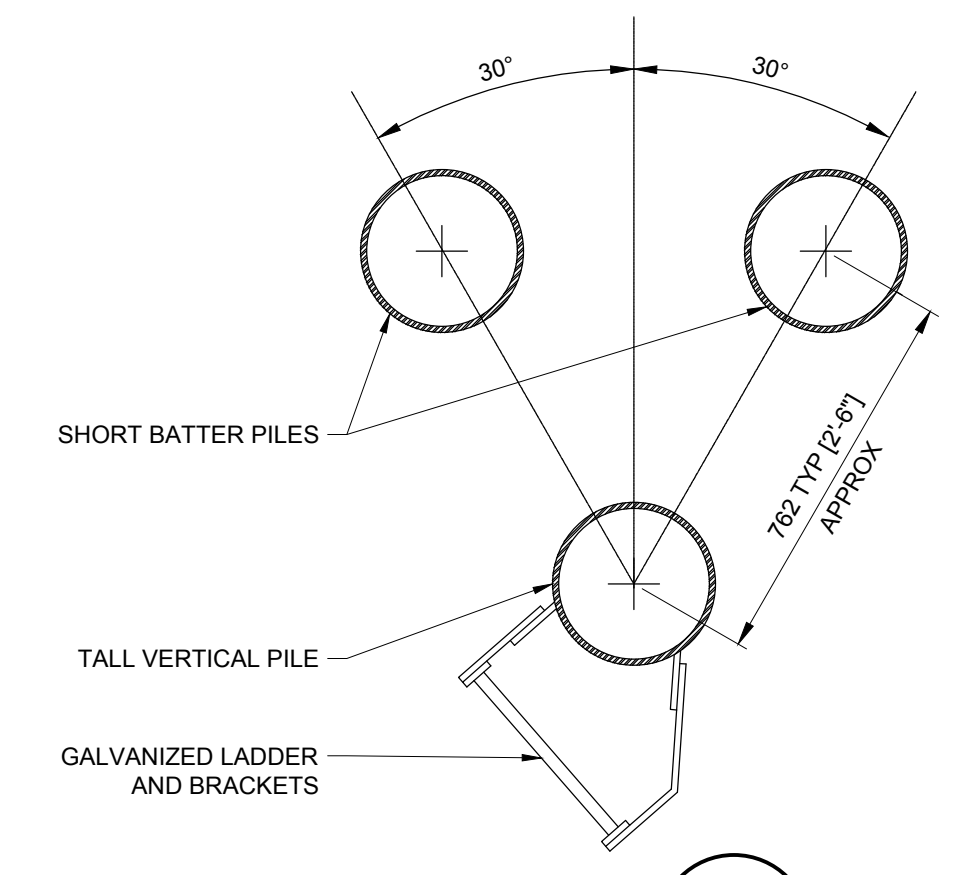
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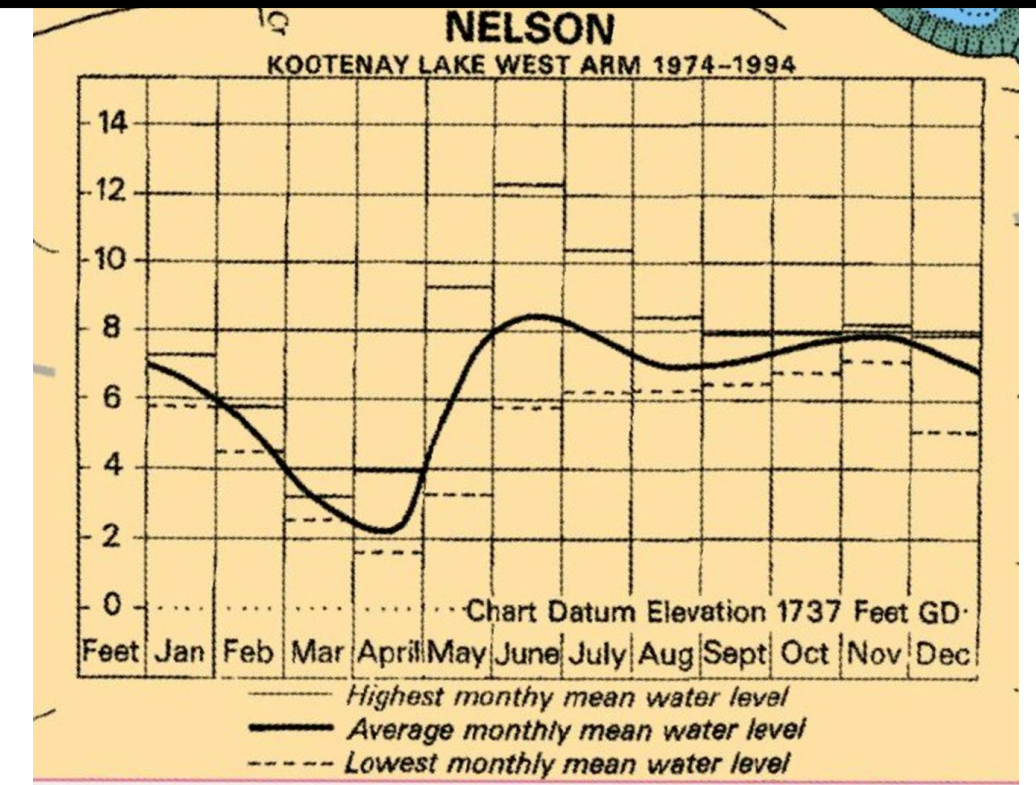
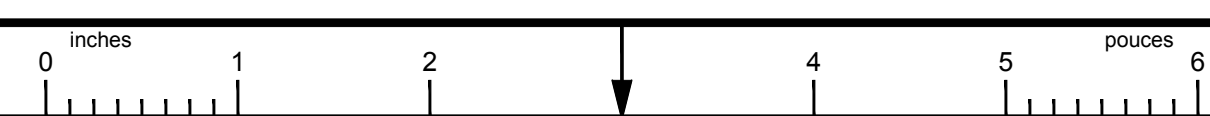


B	ISSUE FOR TENDER	AW	2017.05.30
A	ISSUE FOR REVIEW	AW	2017.03.01
rev	description	by	date

Asset - Actif  
 LL 5.3 KOKANEE POINT EAST

Drawing - Dessin  
**3 PILE DOLPHIN AND ALUMINUM PLATFORM**

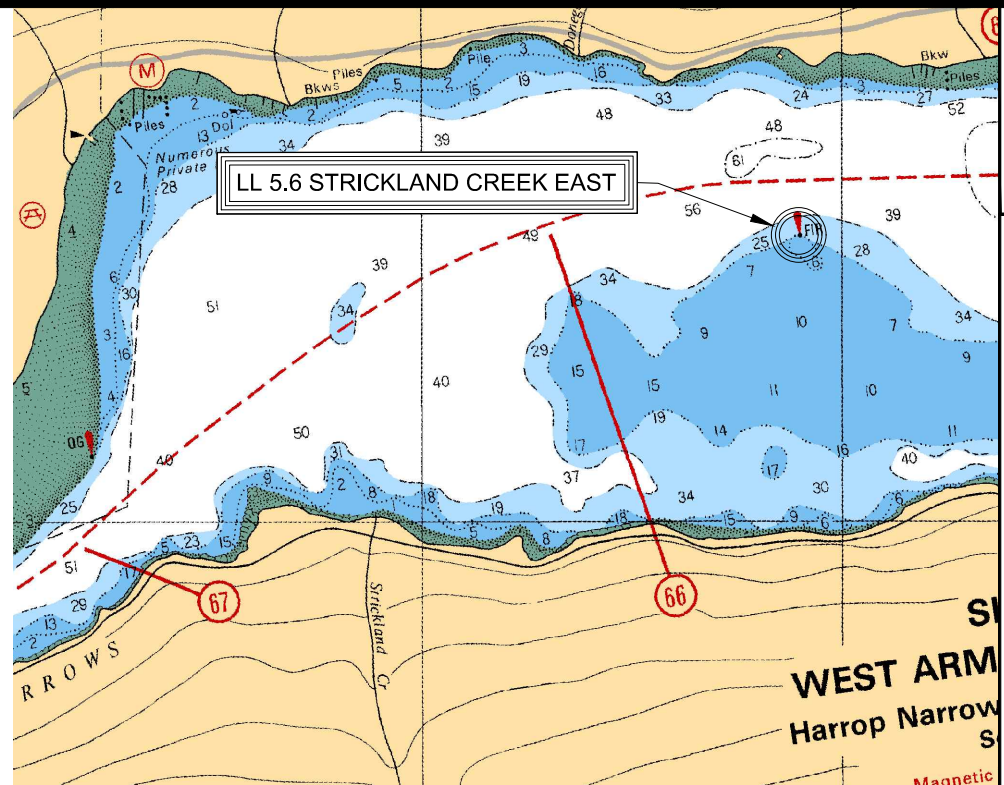
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approved - approuvé	date
AW	2017.05.30
CCG ref. no. - no. réf. GCC	scale - échelle
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24008	02/02



MONTHLY MEAN WATER LEVELS



LL 5.6 STRICKLAND CREEK EAST EXISTING STRUCTURE



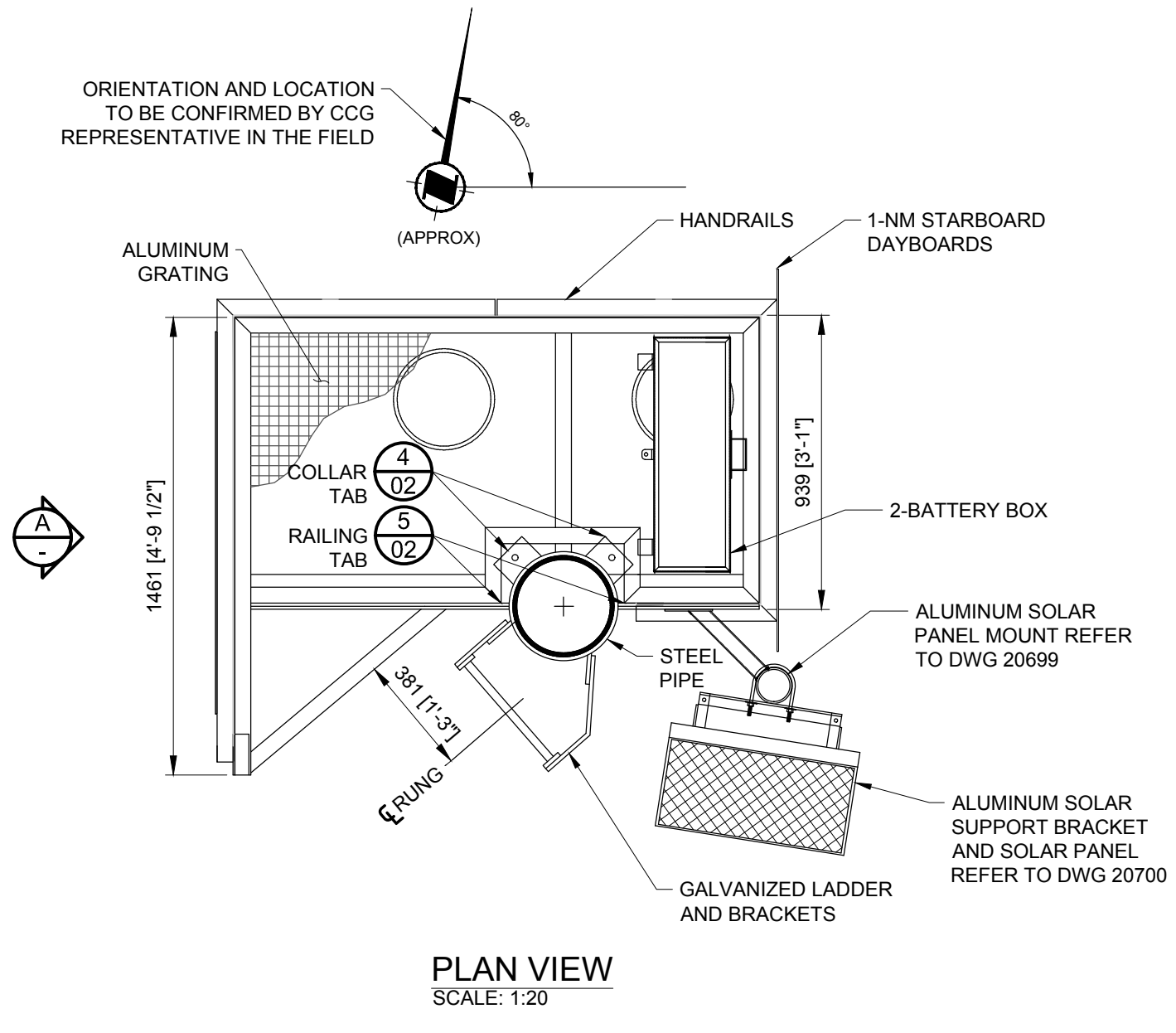
LOCATION CHART LETT (PART OF 3050) N.T.S.

GENERAL NOTES

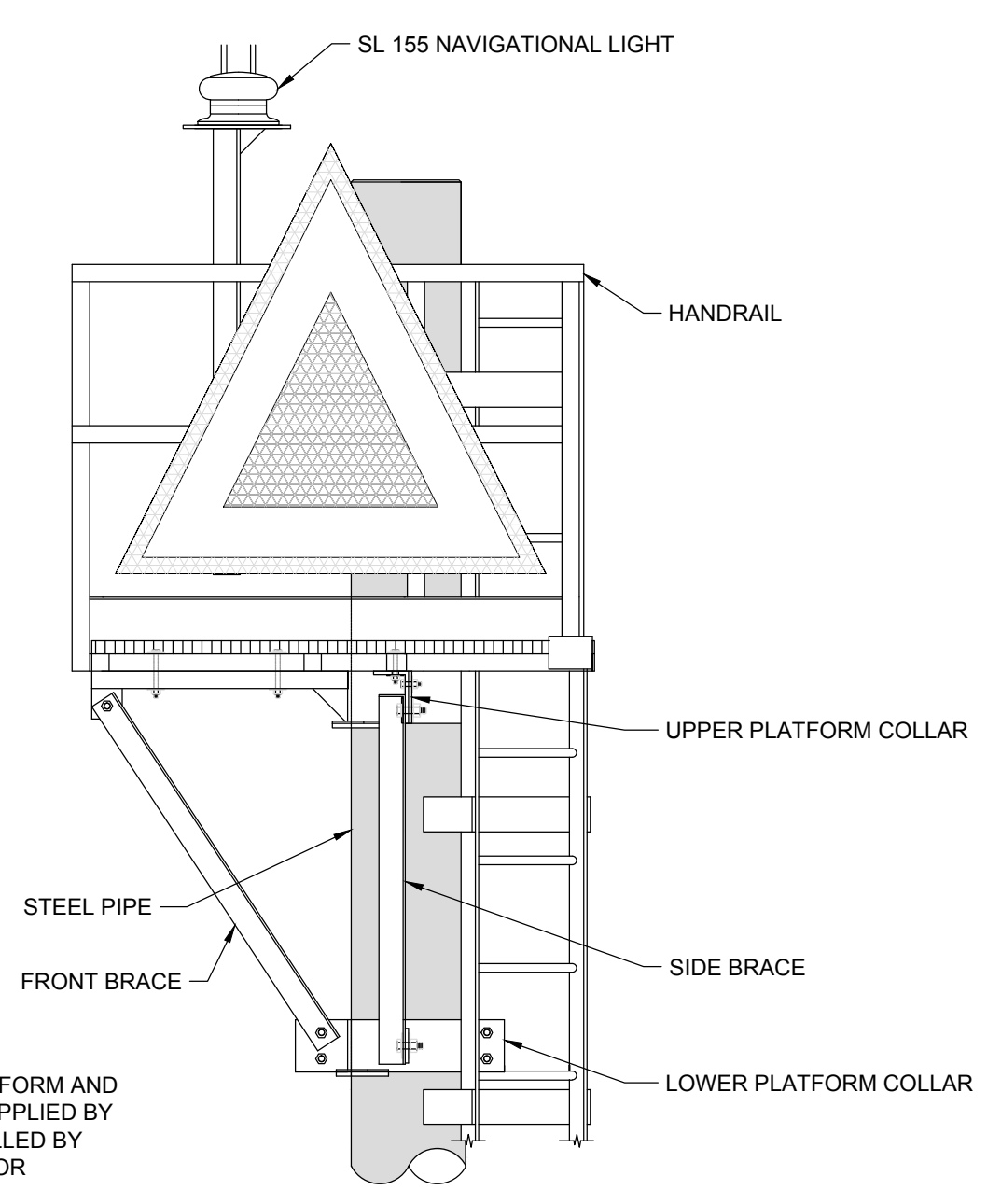
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STRUCTURAL STEEL - CCG

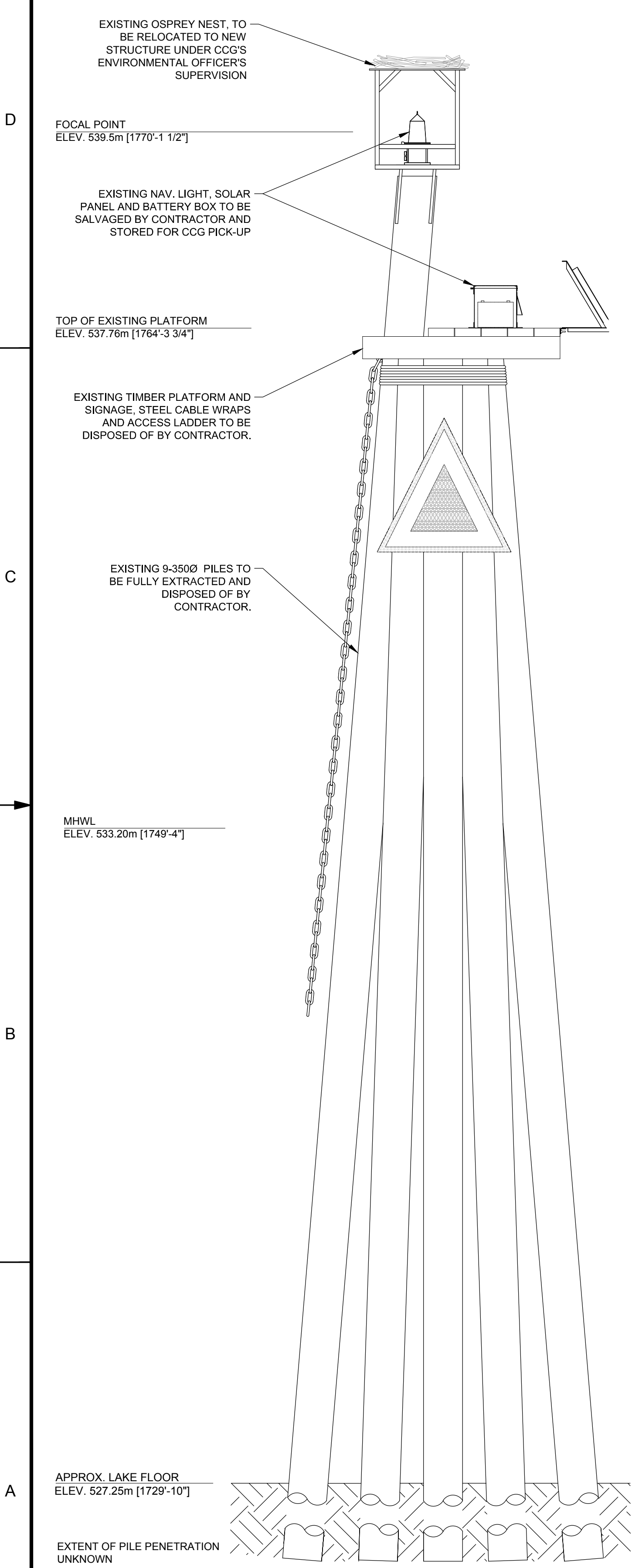
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PLAN VIEW SCALE: 1:20

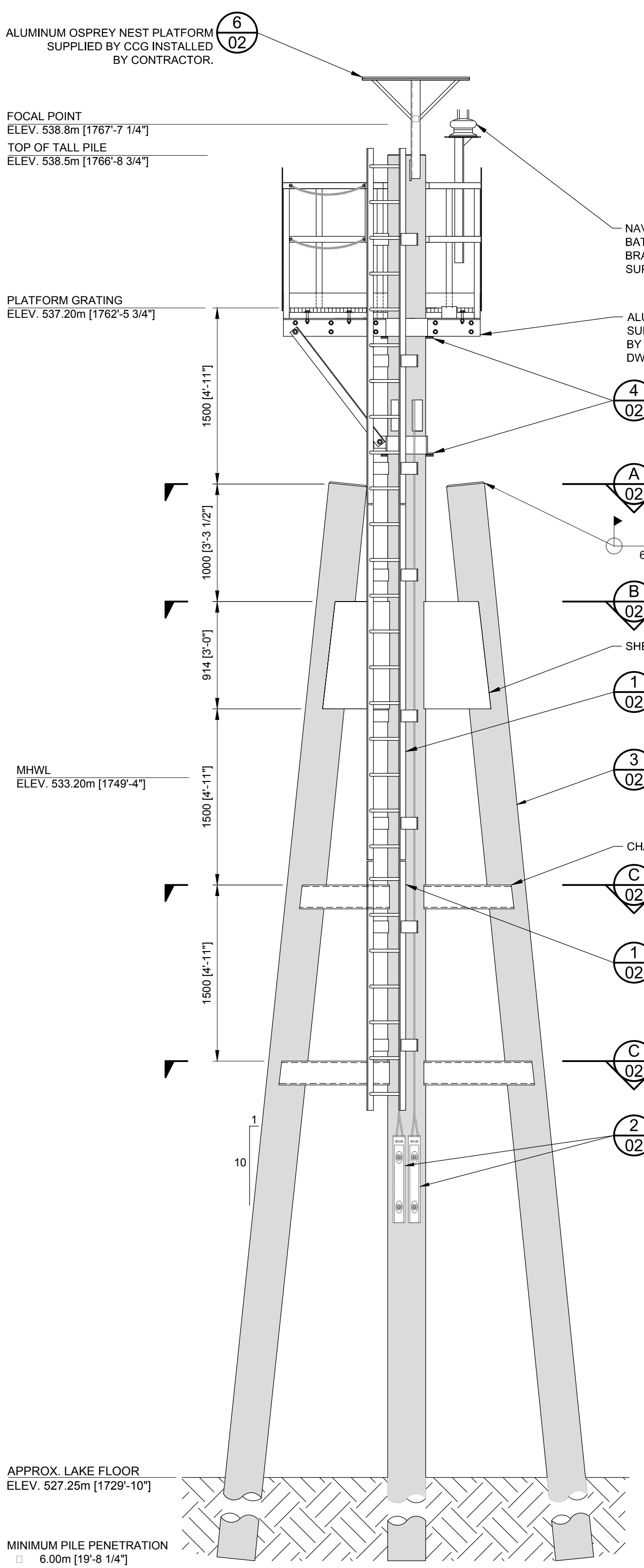


ELEVATION A SCALE: 1:20



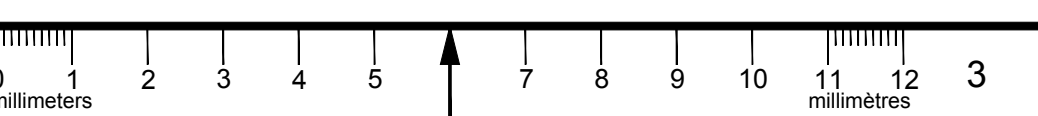
ELEVATION VIEW

EXISTING 1 9 TIMBER PILE DOLPHIN SCALE: 1:30



ELEVATION VIEW

PROPOSED 2 3 STEEL PILE DOLPHIN SCALE: 1:30

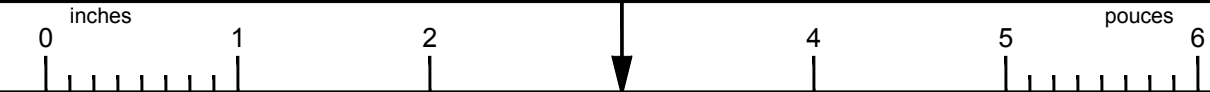


B	ISSUE FOR TENDER	AW	2017.05.30
A	ISSUE FOR REVIEW	AW	2017.03.01
rev	description	by	date

Asset - Actif  
**LL 5.6 STRICKLAND CREEK EAST**

3 PILE DOLPHIN AND ALUMINUM PLATFORM

drawn - dessiné	date
GAR	2017.05.30
designed - conception	date
AW	2017.05.30
checked - vérifié	date
AW	2017.05.30
approved - approuvé	date
AW	2017.05.30
CCG ref. no. - no. réf. GCC	scale - échelle
	AS SHOWN
drawing no. - no. dessin	sheet/feuille
24009	01/02 B



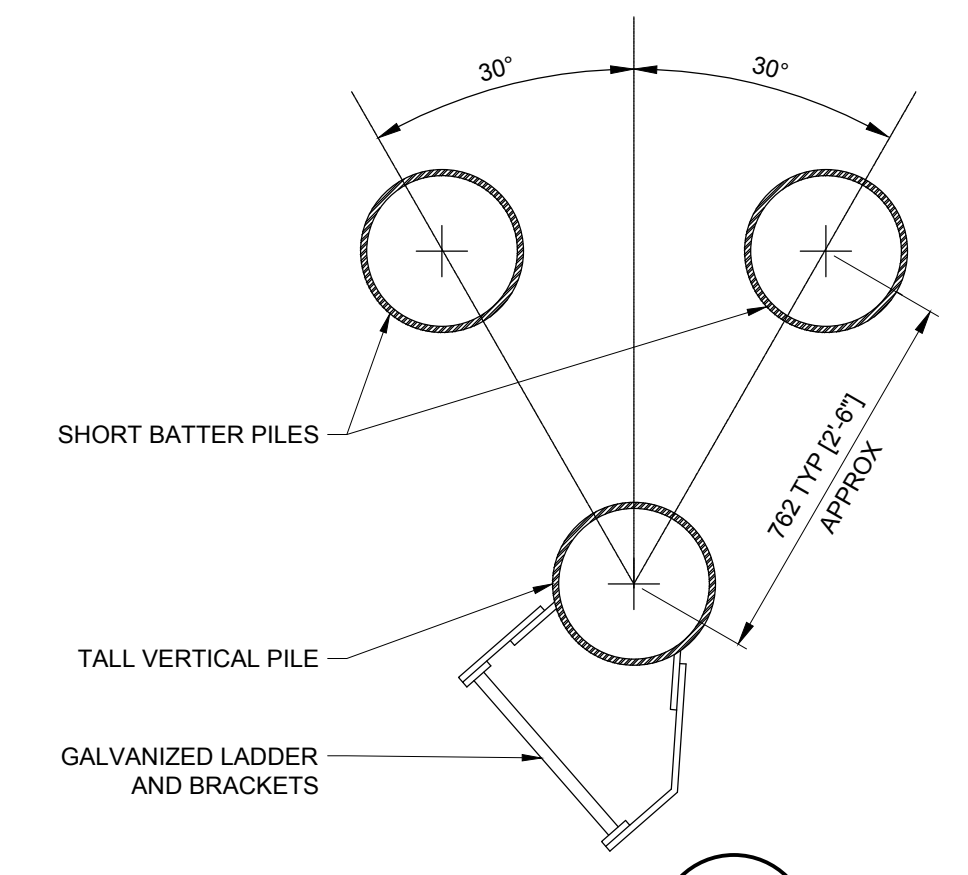
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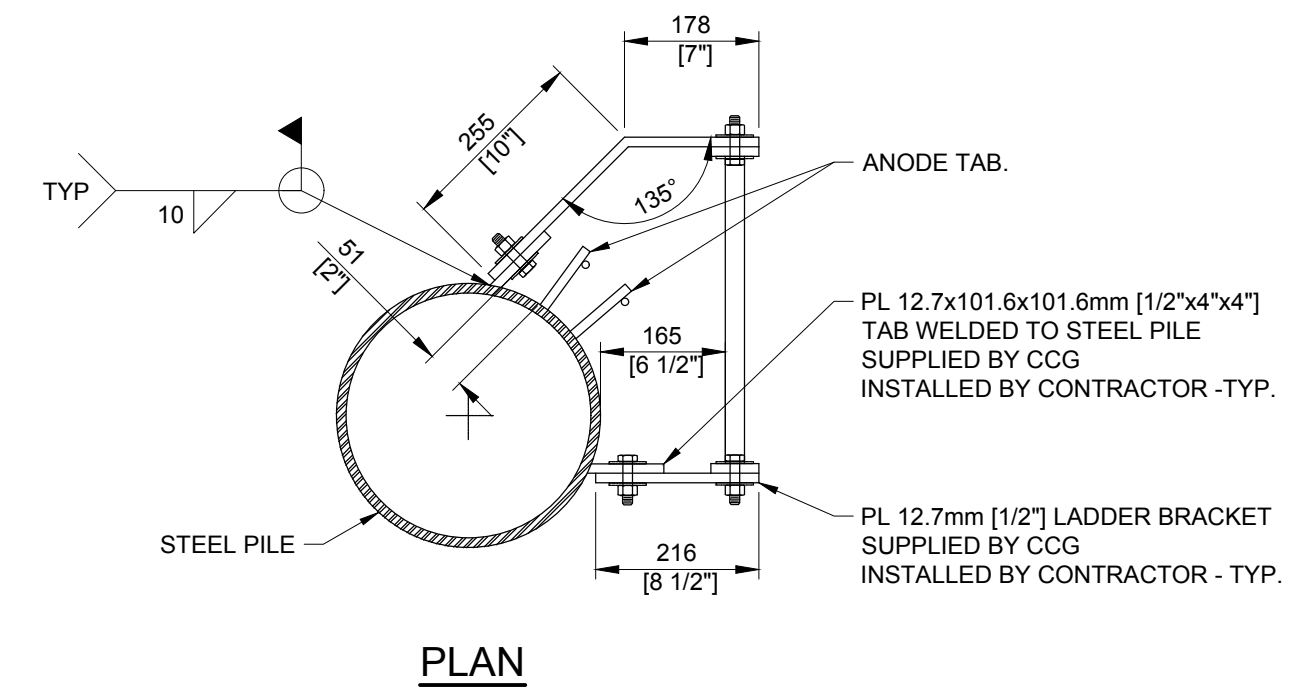
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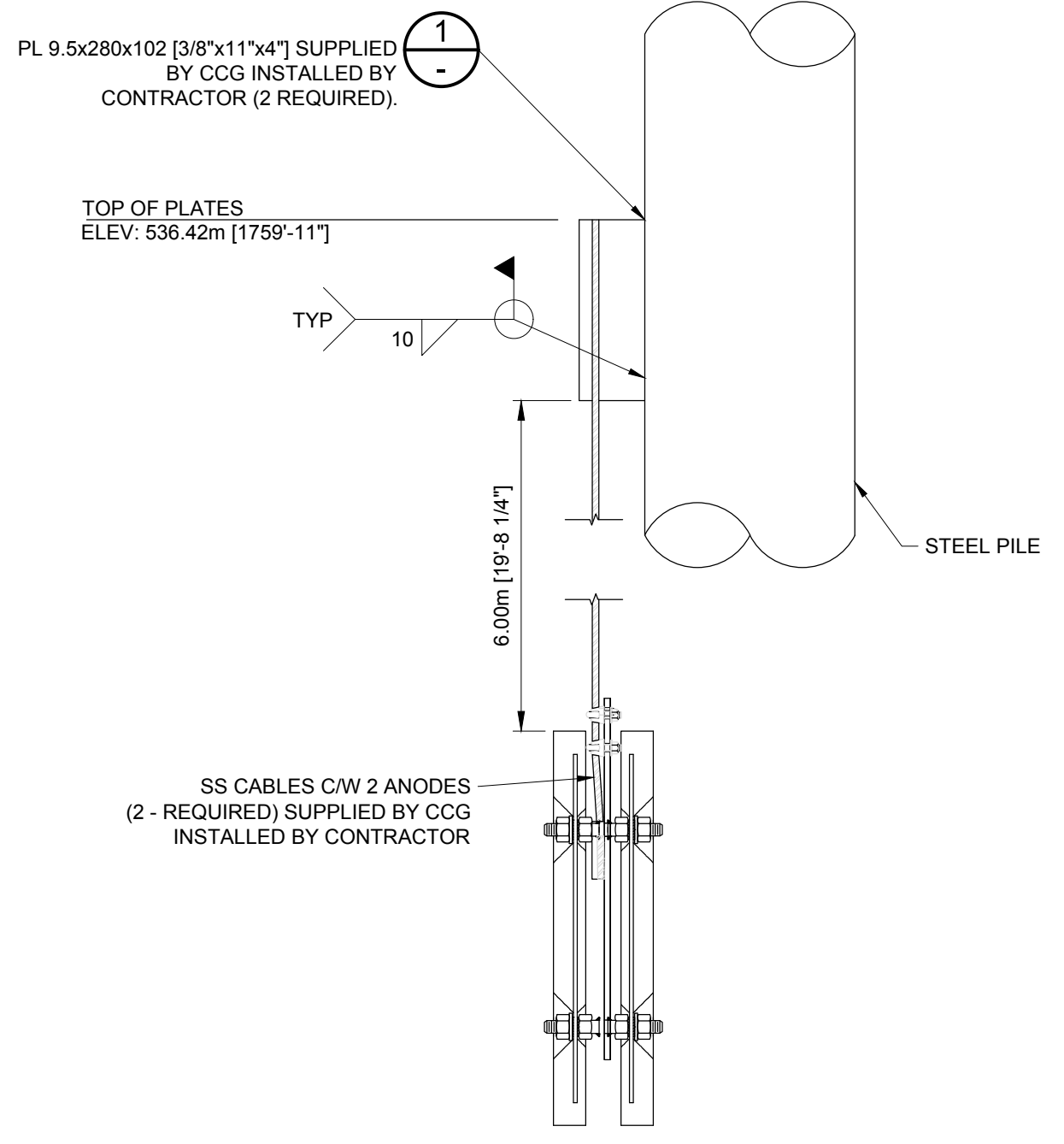
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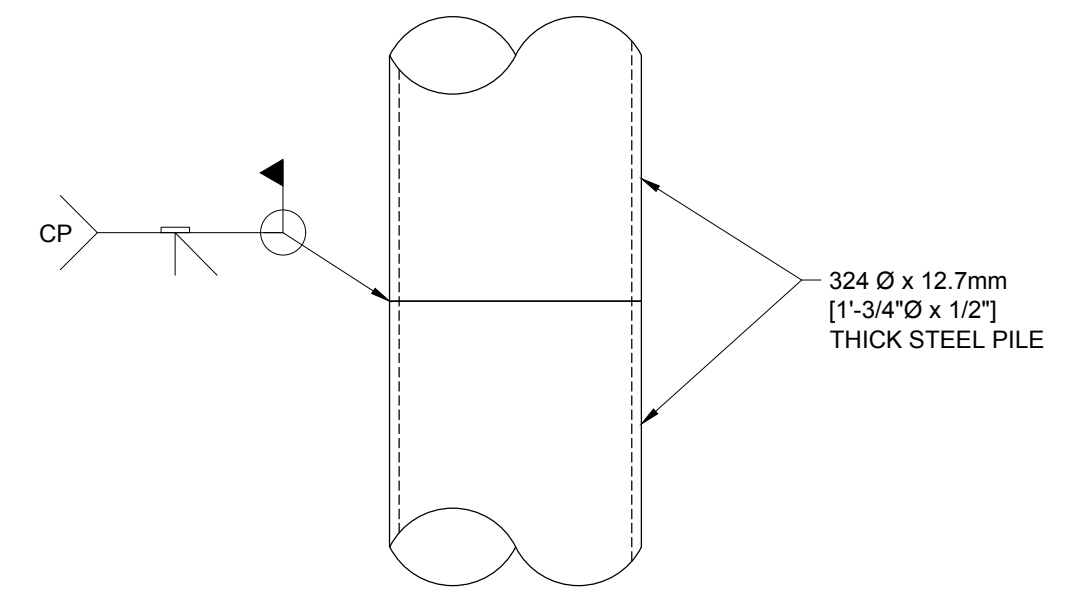
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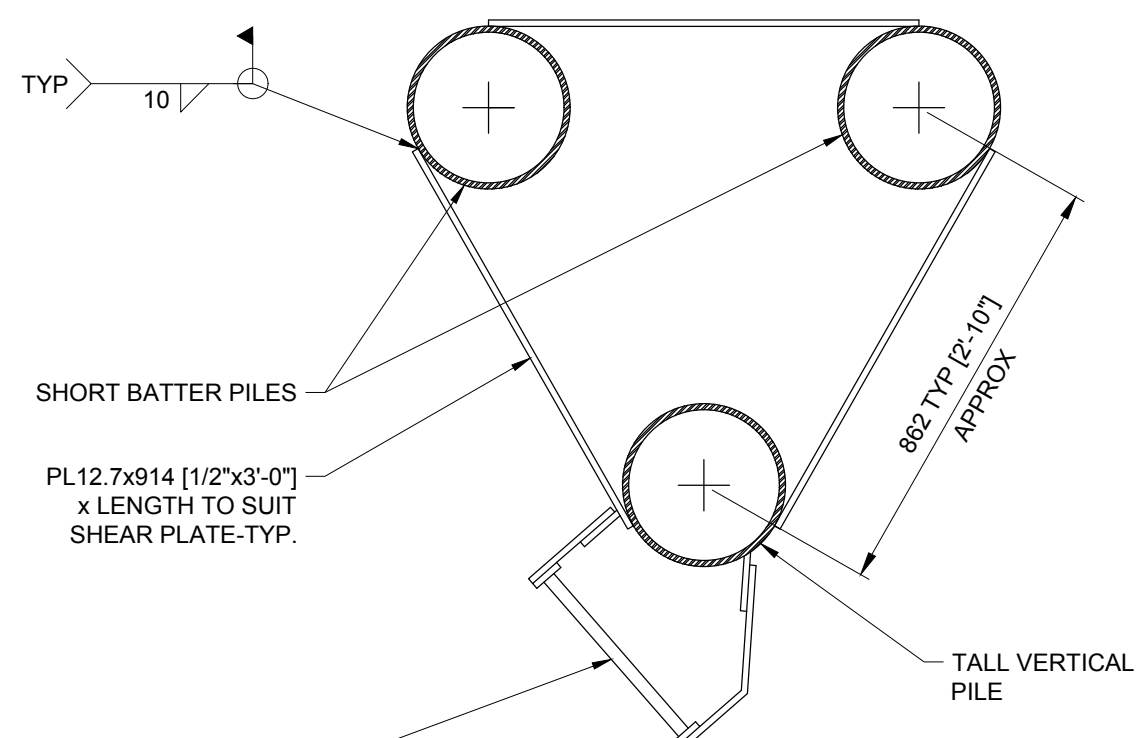
PLAN



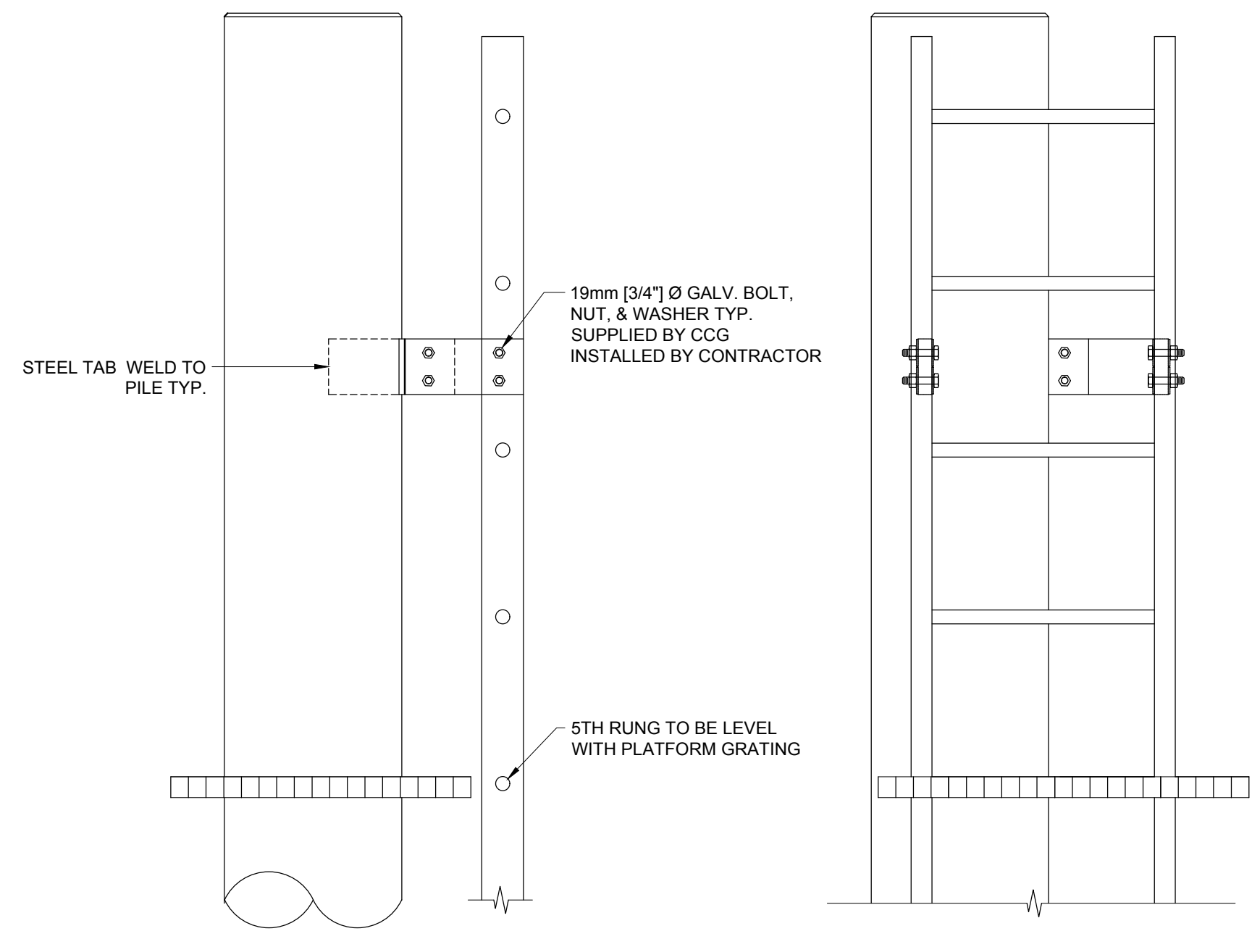
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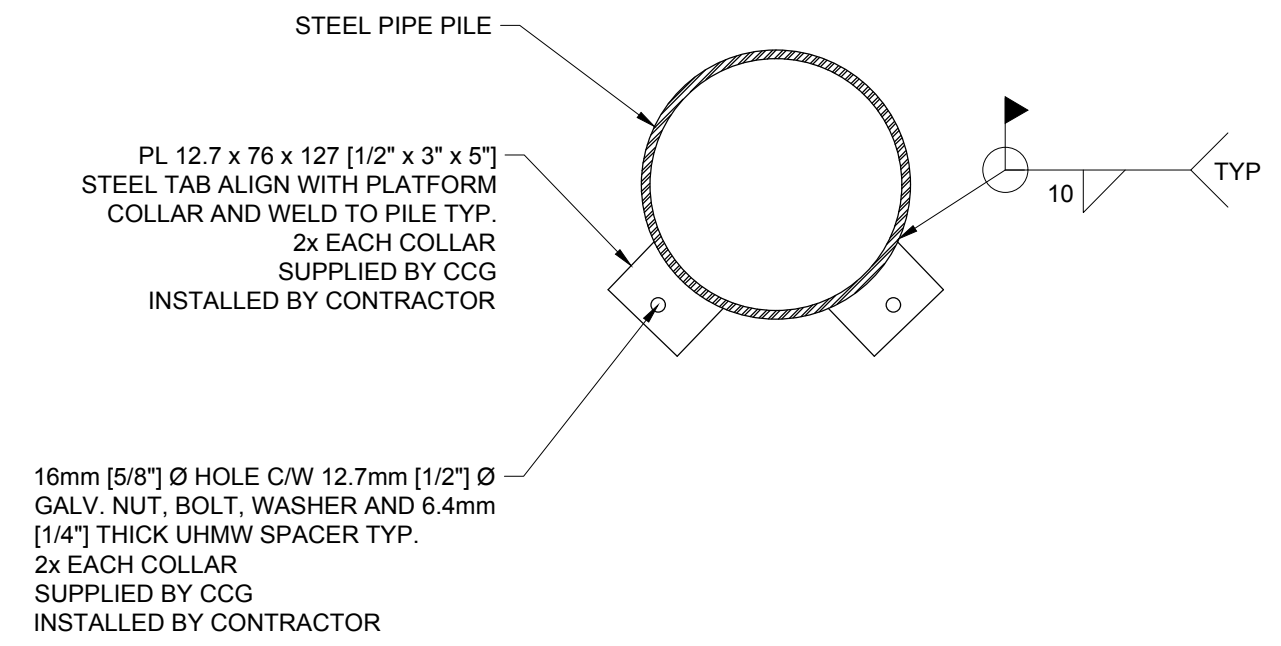
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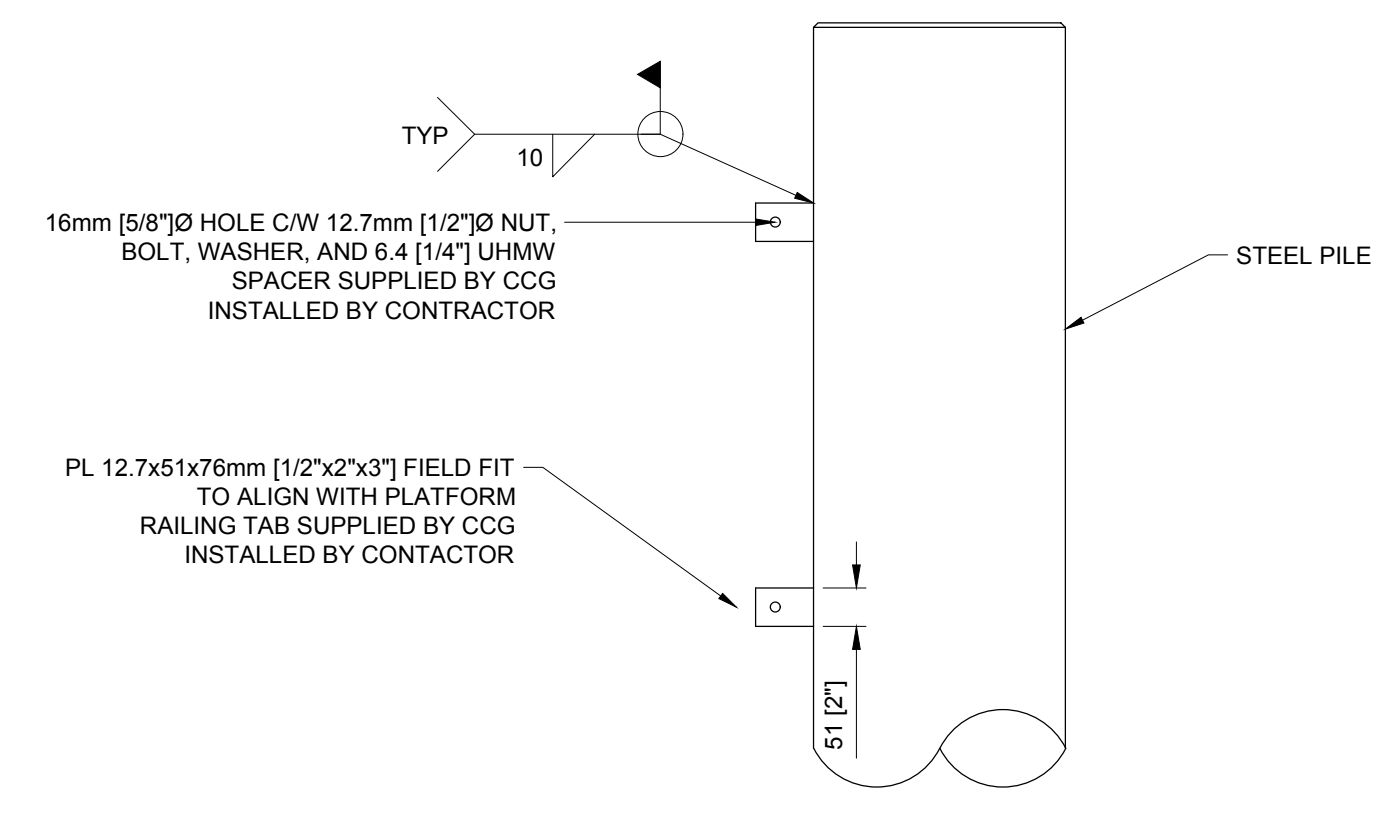
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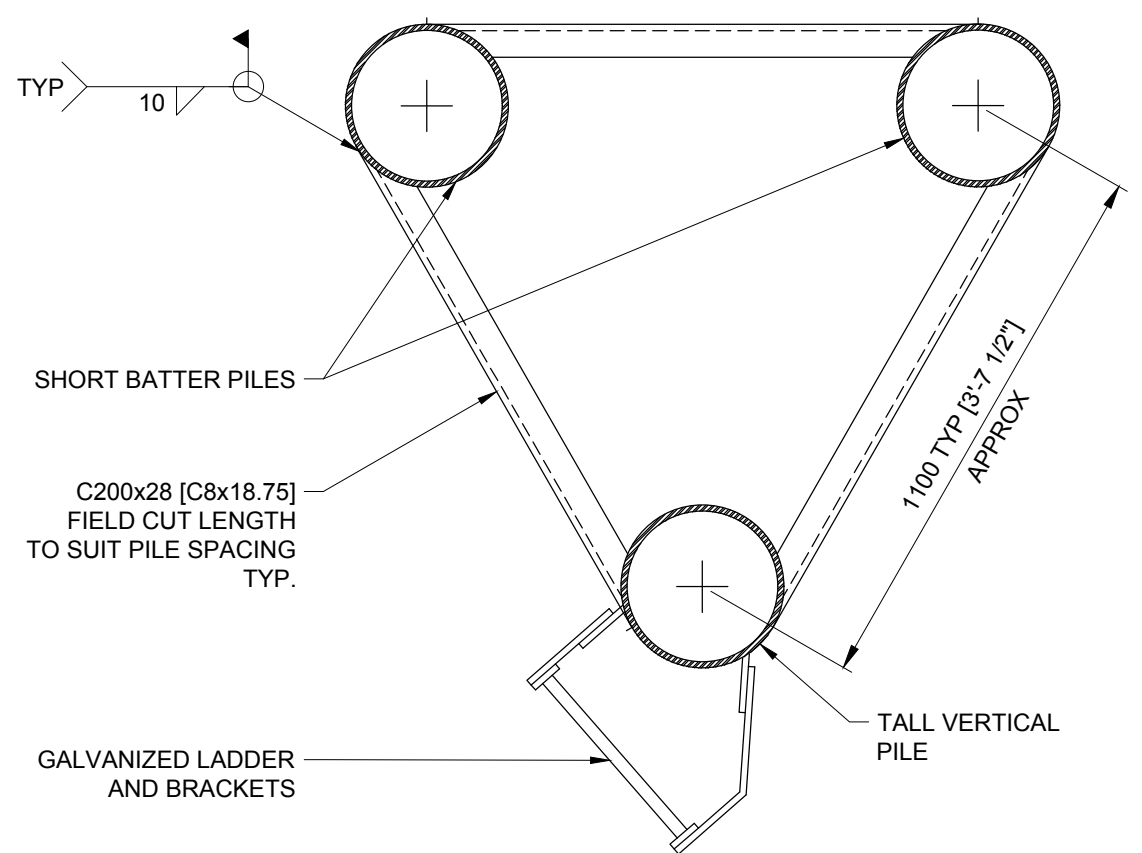
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SCALE: 1:10



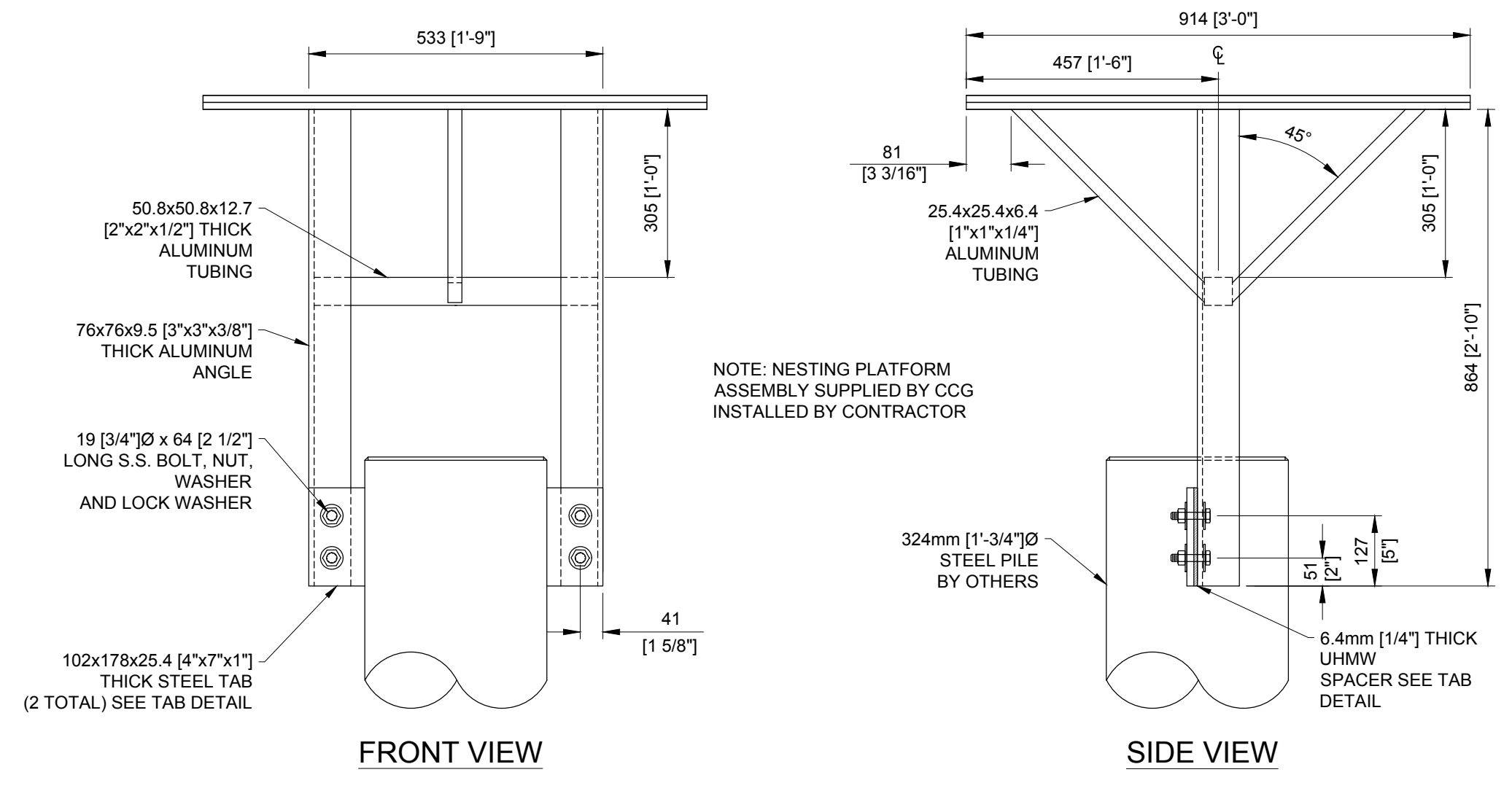
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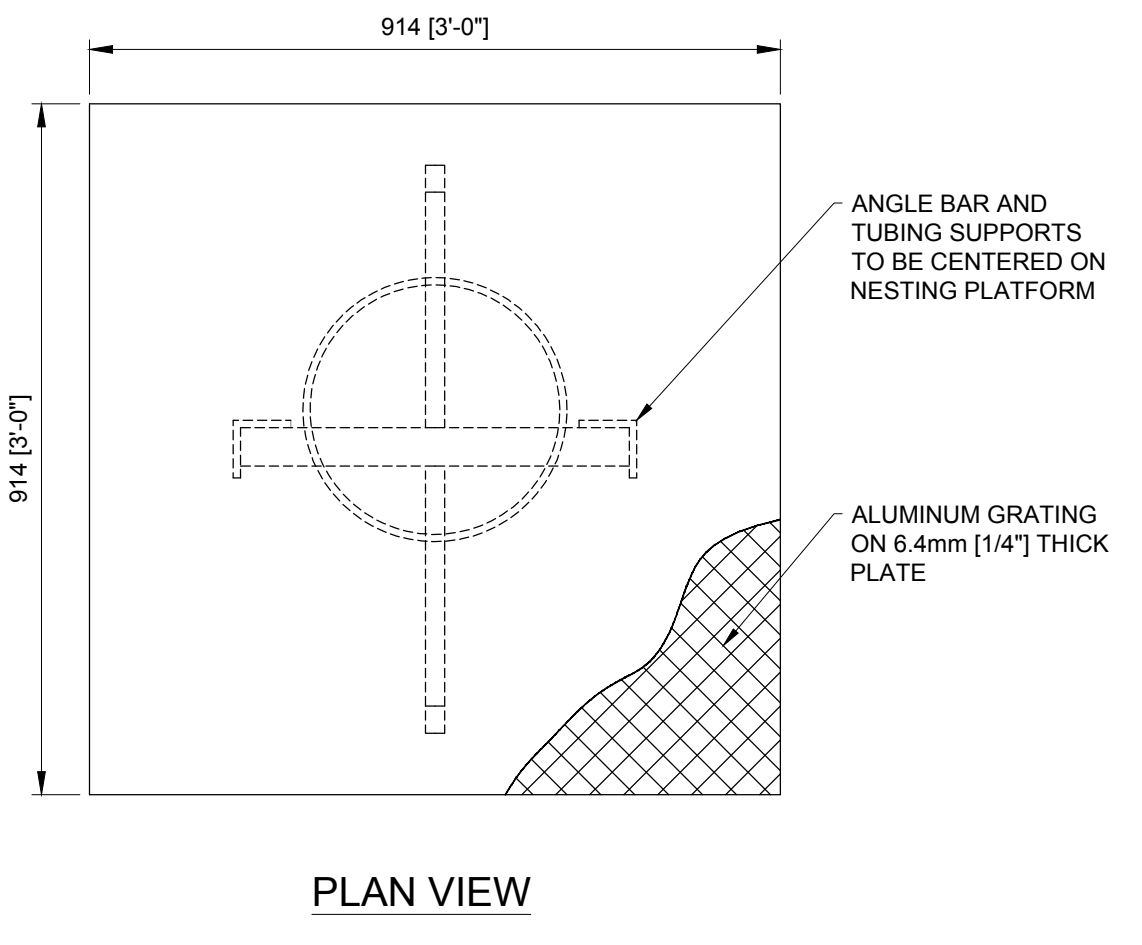
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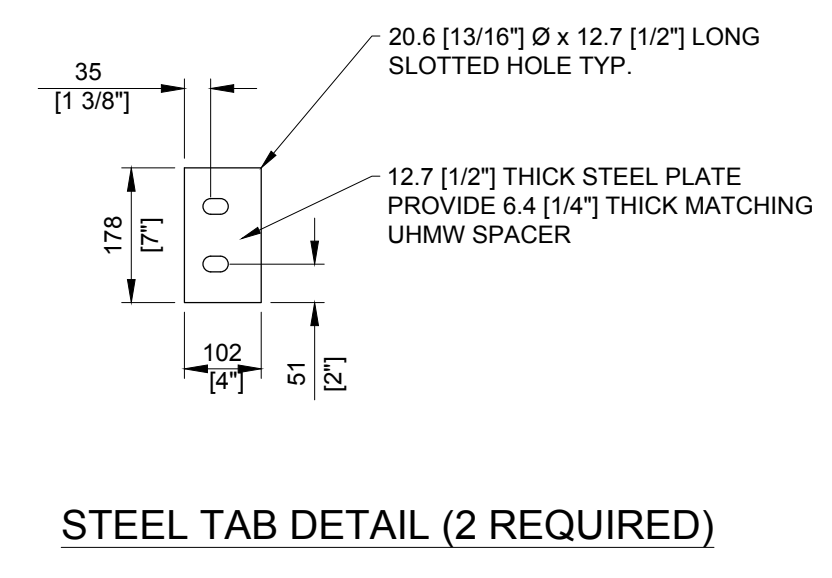
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DETAIL 6 OSPREY NESTING PLATFORM 01  
SCALE: 1:10



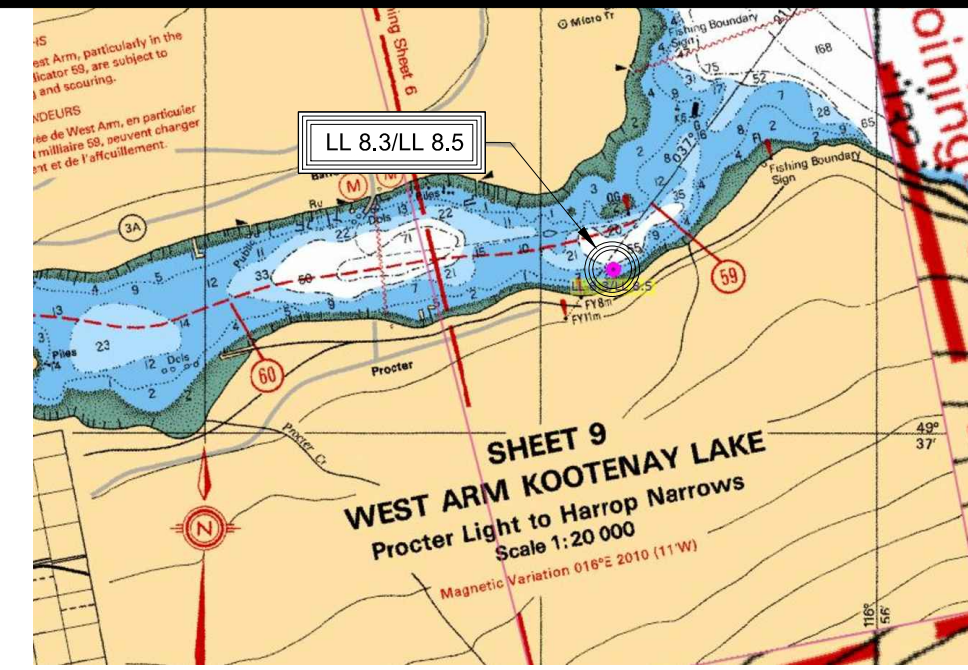
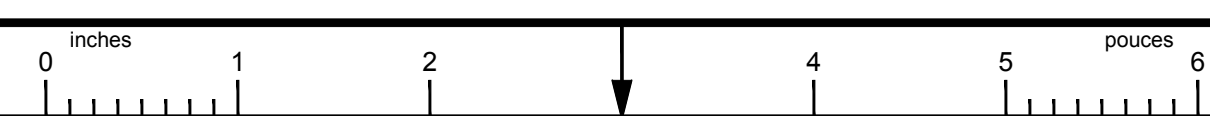
PLAN VIEW



STEEL TAB DETAIL (2 REQUIRED)

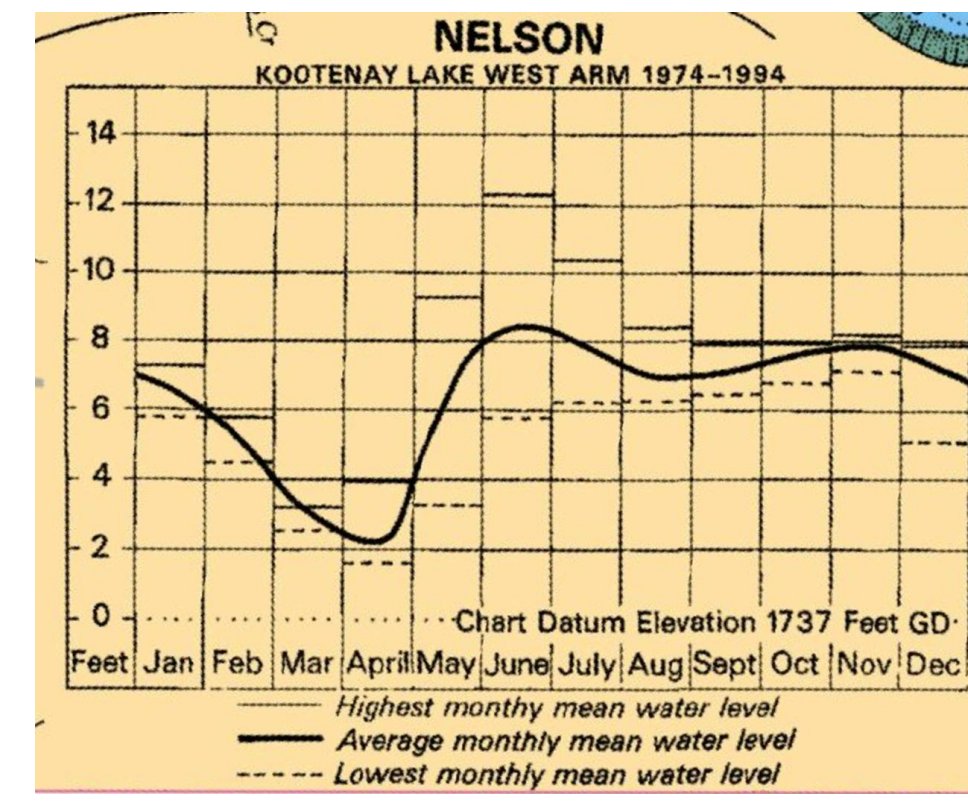


B	ISSUE FOR TENDER	AW	2017.05.30
A	ISSUE FOR REVIEW	AW	2017.03.01
rev	description	by	date
Asset - Actif			
<b>LL 5.6 STRICKLAND CREEK EAST</b>			
Drawing - Dessin			
<b>3 PILE DOLPHIN AND ALUMINUM PLATFORM</b>			
drawn - dessiné			date
GAR			2017.05.30
designed - conception			date
AW			2017.05.30
checked - vérifié			date
AW			2017.05.30
approved - approuvé			date
AW			2017.05.30
CCG ref. no. - no. réf. GCC			scale - échelle
REF NO / PROJ NO / FILE NO	AS SHOWN		
drawing no. - no. dessin	sheet/feuille	rev-rév	
24009	02/02	B	



**LOCATION CHART**  
(PART OF 3050) N.T.S.

NEW MARK TO BE LOCATED AT:  
LATITUDE: 49° 37' 18.69" N  
LONGITUDE: 116° 56' 50.92" W



**MONTHLY MEAN WATER LEVELS**

**GENERAL NOTES**

1. THESE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
2. ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAS BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE CONDITIONS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. CONTRACTOR TO MEASURE AND VERIFY PILE LENGTHS PRIOR TO ORDERING MATERIALS.
7. CCG SUPPLIED MATERIALS WILL BE DELIVERED BY CCG TO THE CONTRACTOR.
8. ELEVATIONS SHOWN ARE APPROXIMATE.
9. WATER LEVELS AND GROUND ELEVATIONS ARE REFERENCED TO CHART DATUM.

**STRUCTURAL STEEL - CCG**

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
3. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
  1. CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
  2. HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
  3. COLD FORMED METAL: CAN/CSA-S136
  4. STRUCTURAL BOLTS: ASTM-A325
  5. ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS. CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
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8. BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
9. GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
10. ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET
11. HOT DIP GALVANIZING TO A123M MIN COATING 600g/m<sup>2</sup>
12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

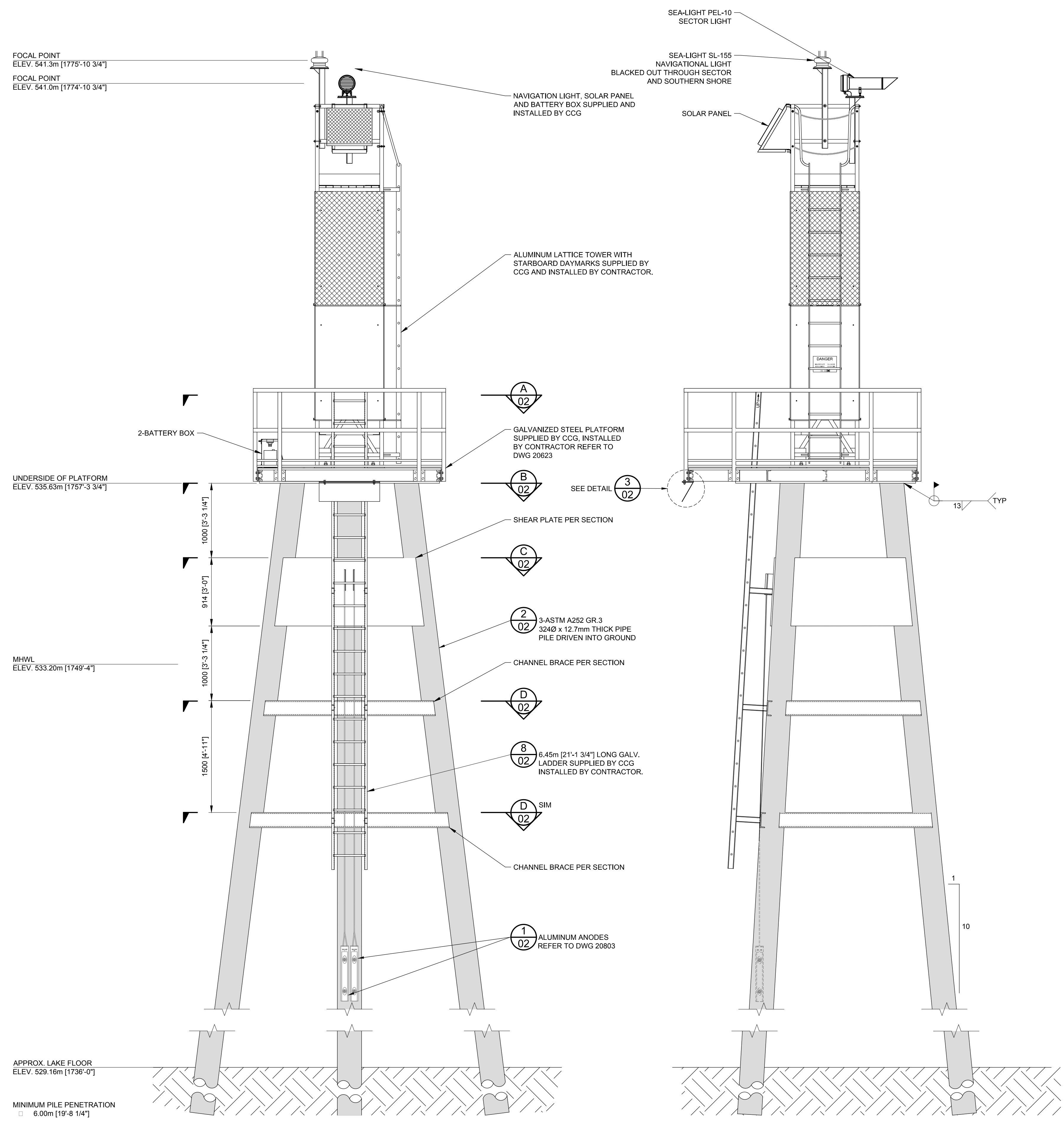
B	ISSUE FOR TENDER	AW	2017.05.30
A	ISSUE FOR REVIEW	AW	2017.02.09
rev	description	by	date

Asset - Actif  
**LL 8.3 PROCTER SECTOR  
LL 8.5 PROCTER LIGHT**

Drawing - Dessin  
**3 PILE DOLPHIN AND STEEL PLATFORM**

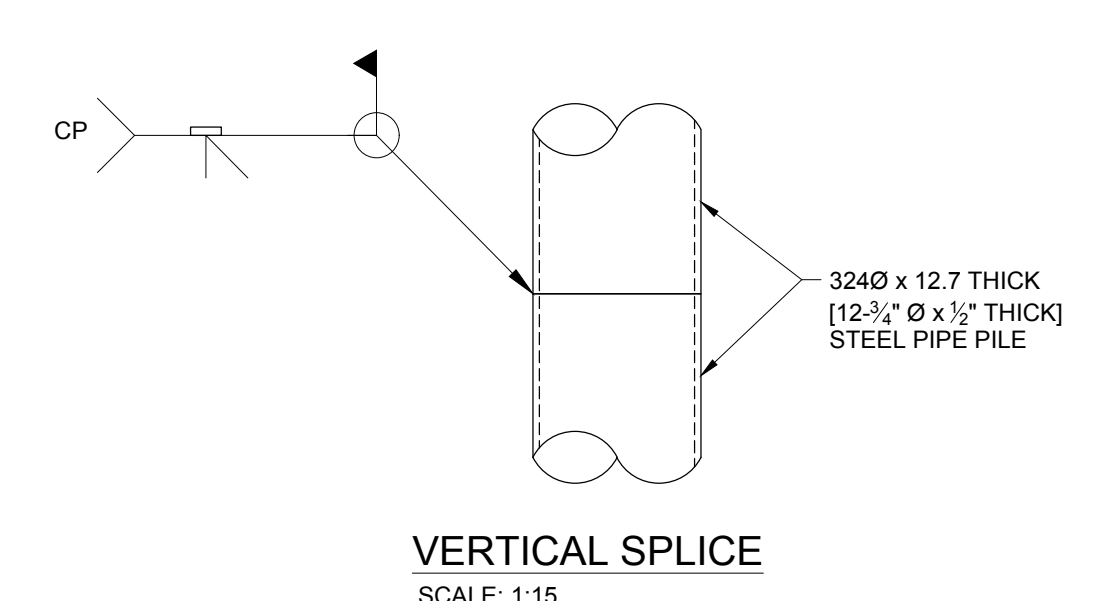
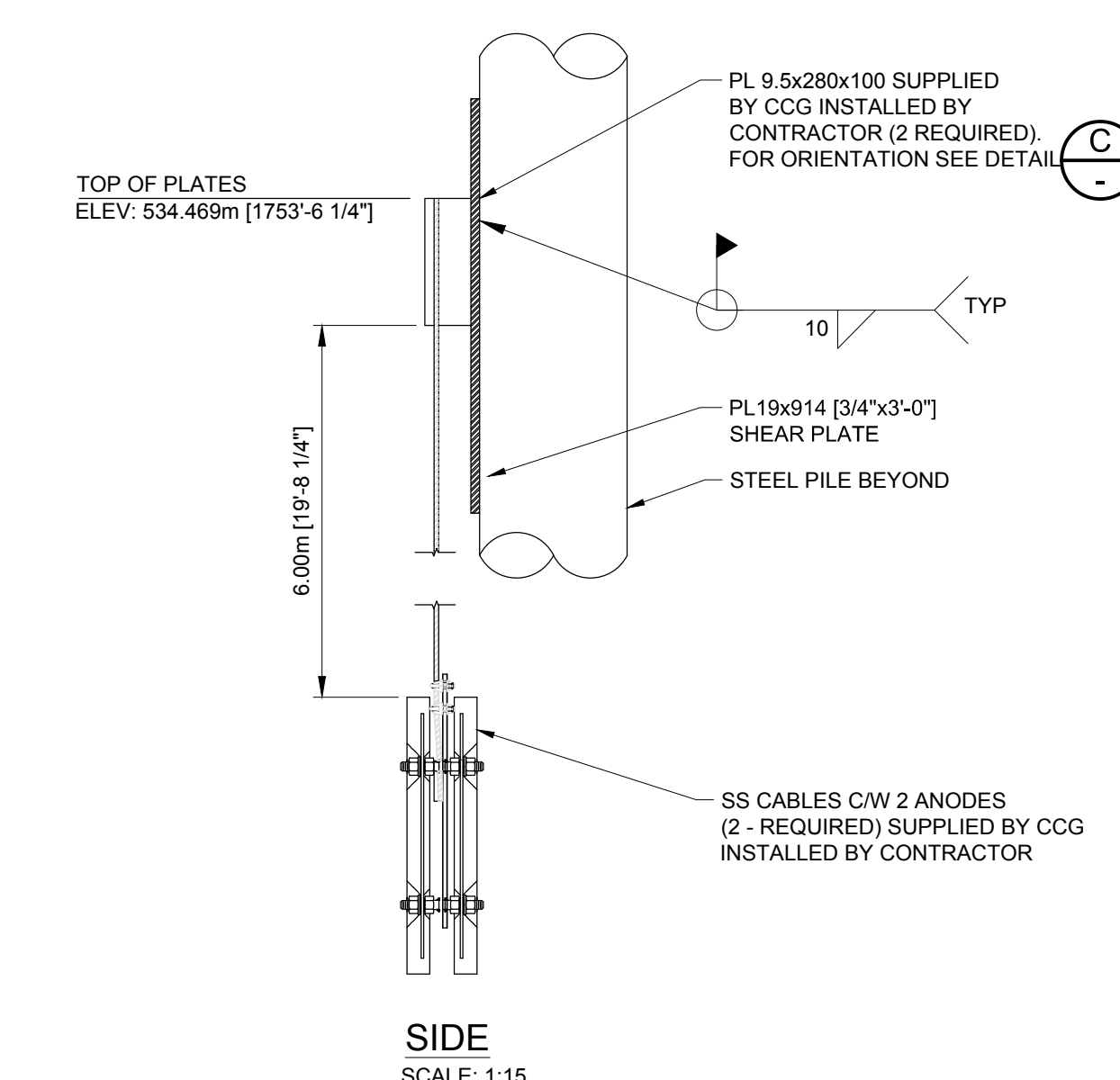
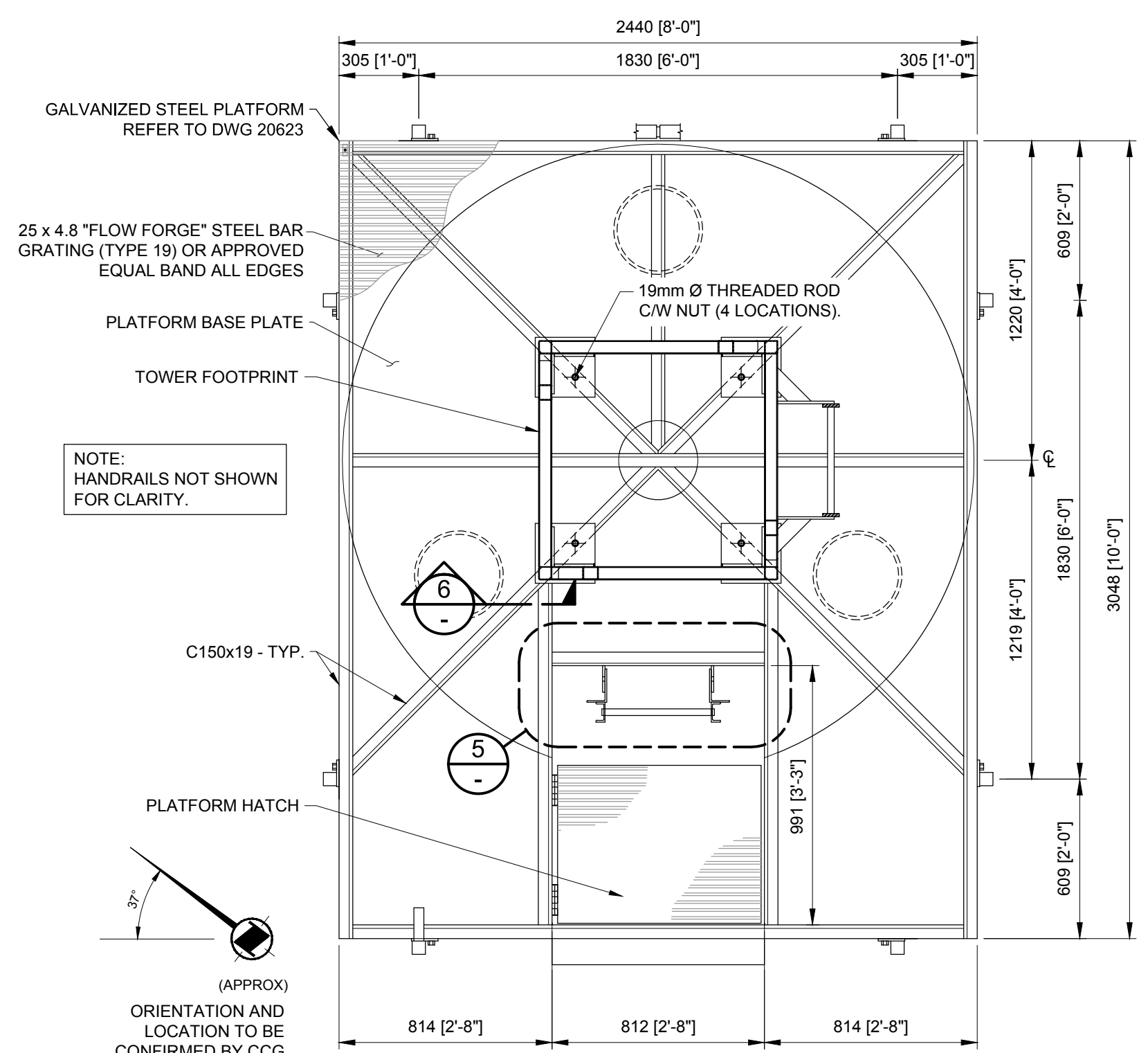
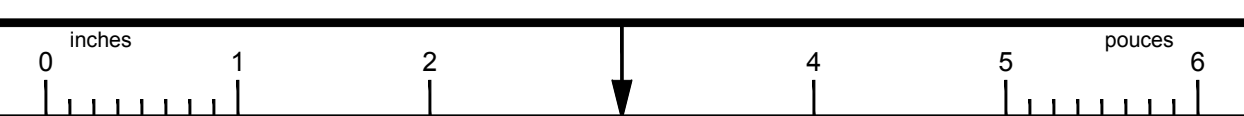
drawn - dessiné	date
GAR	2017.05.30
designed - conception	date
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approved - approuvé	date
AW	2017.05.30

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-	AS SHOWN
drawing no. - no. dessin	sheet/feuille
24035	01/02 B

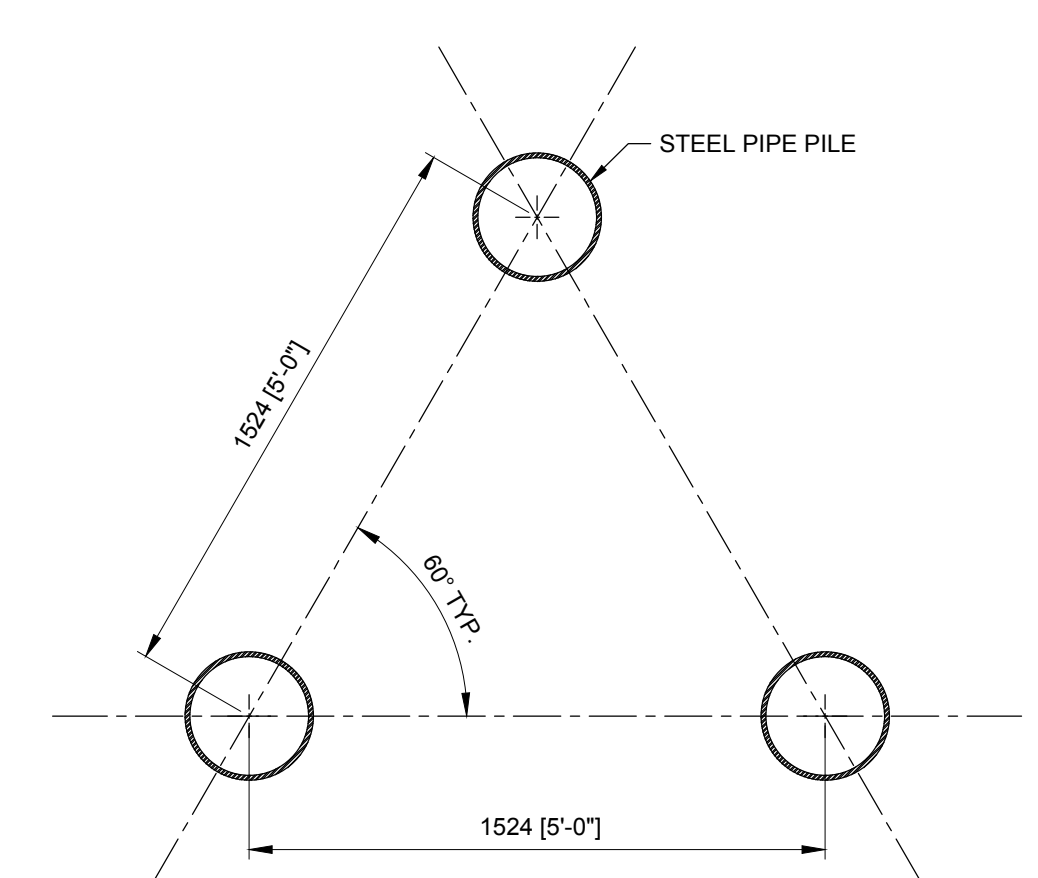


**PROPOSED 1 3 STEEL PILE DOLPHIN**  
SCALE: 1:30

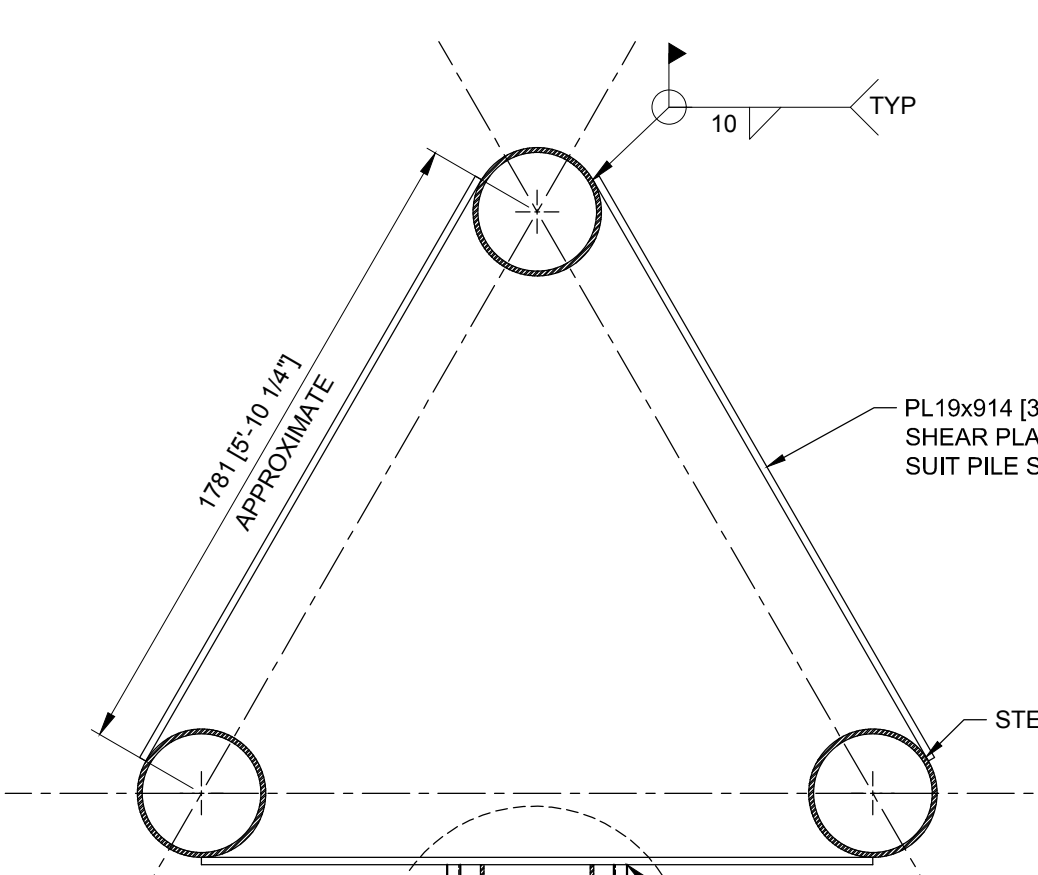




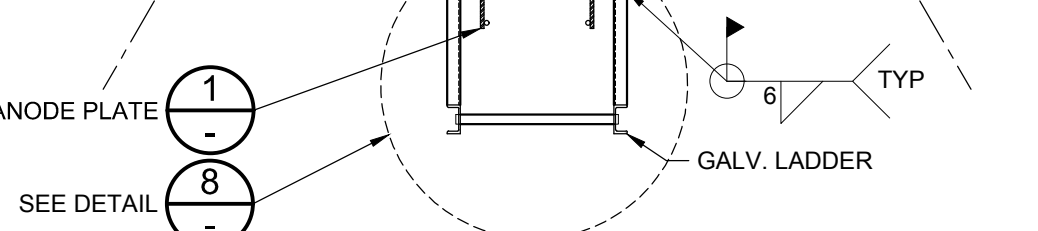
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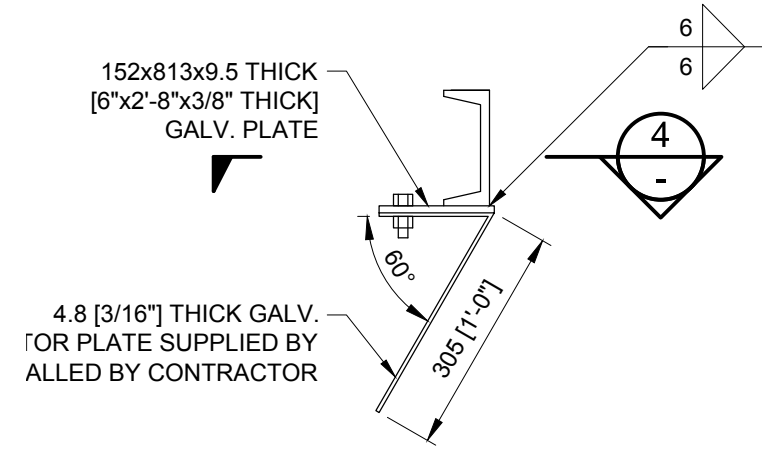
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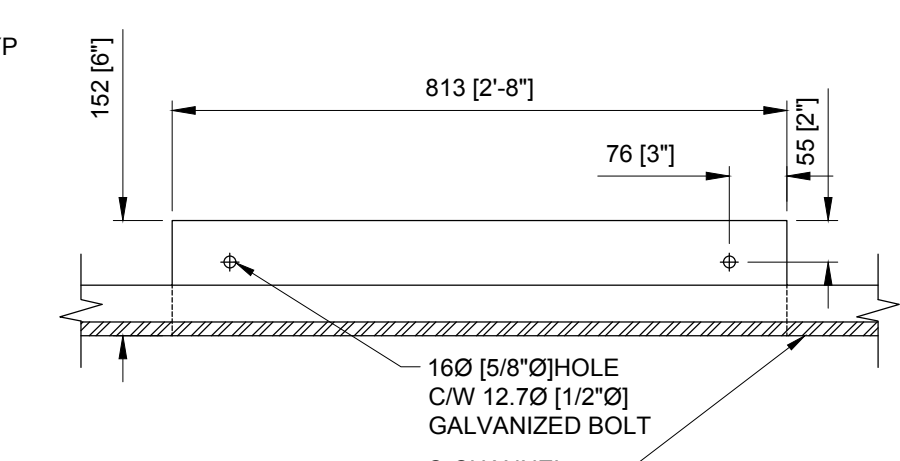
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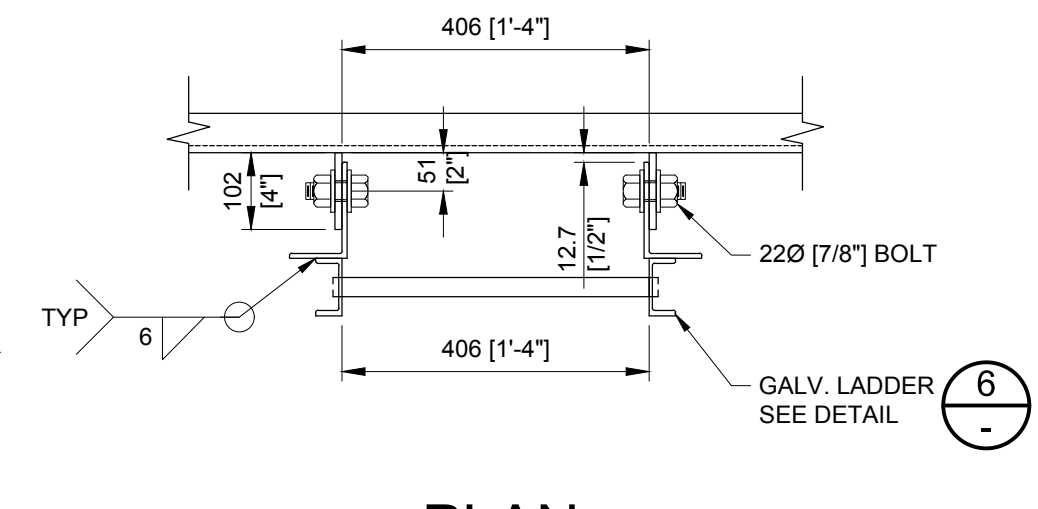
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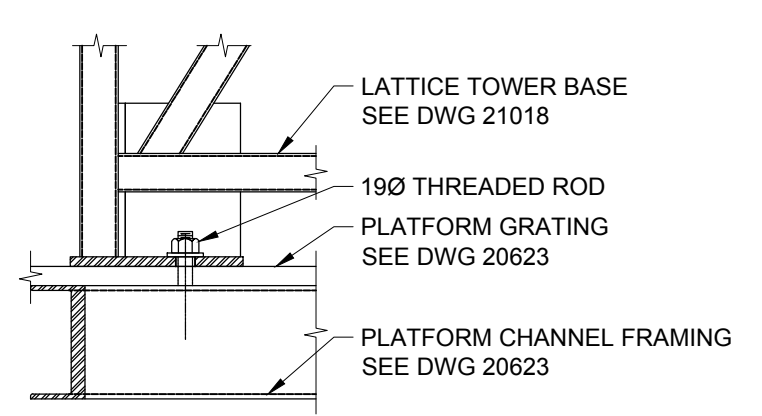
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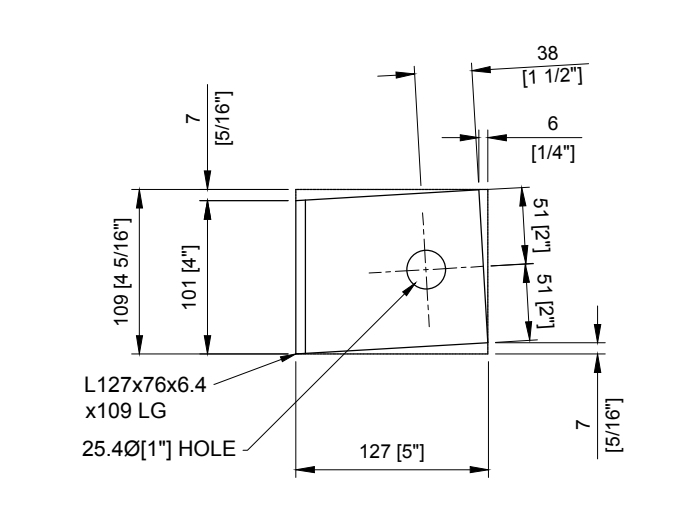
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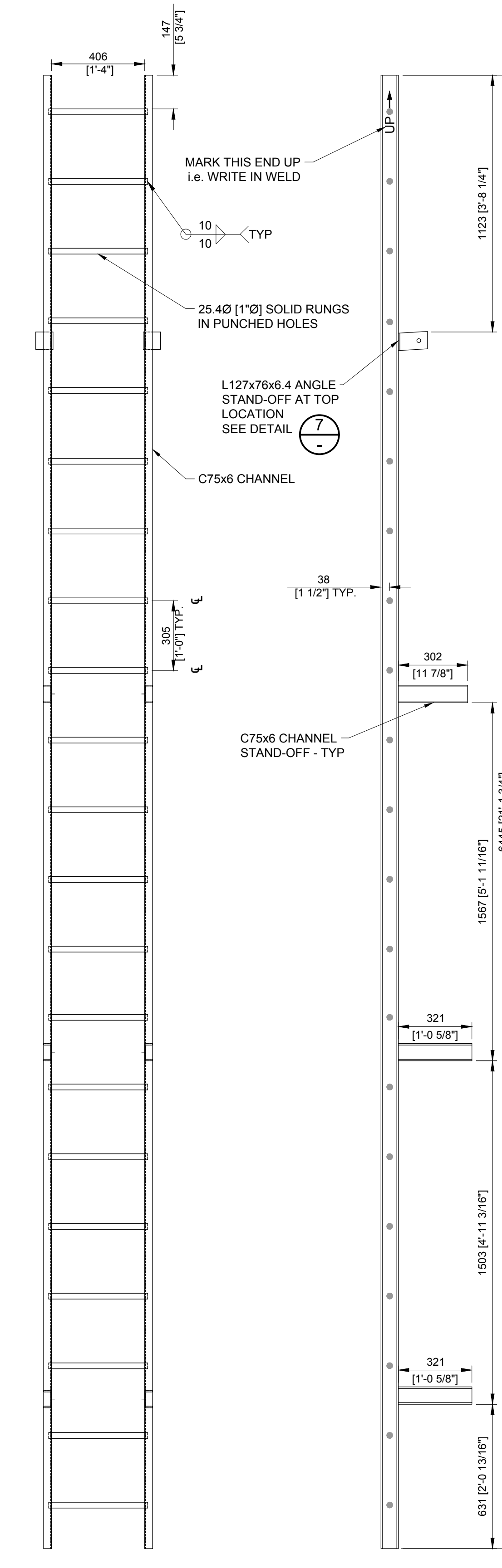
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DETAIL 7 01 SCALE: 1:5

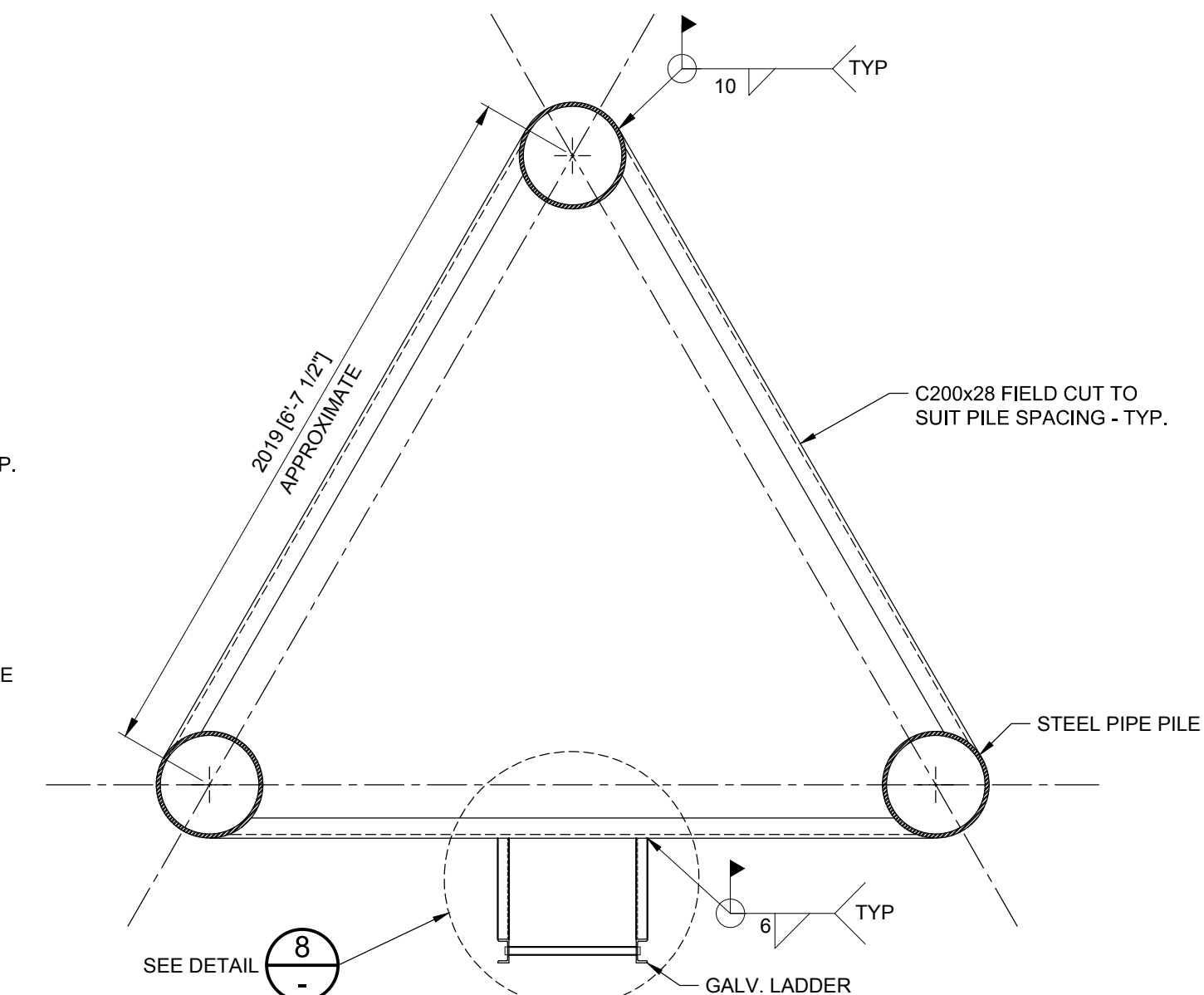


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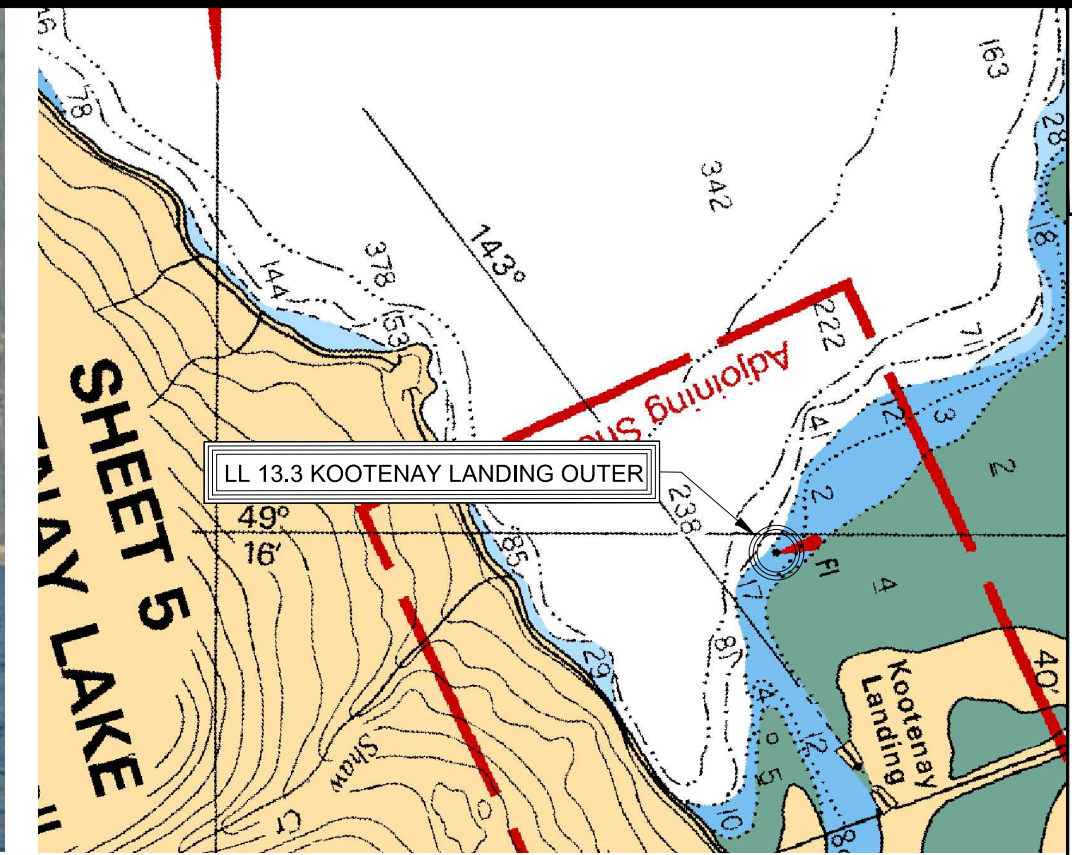
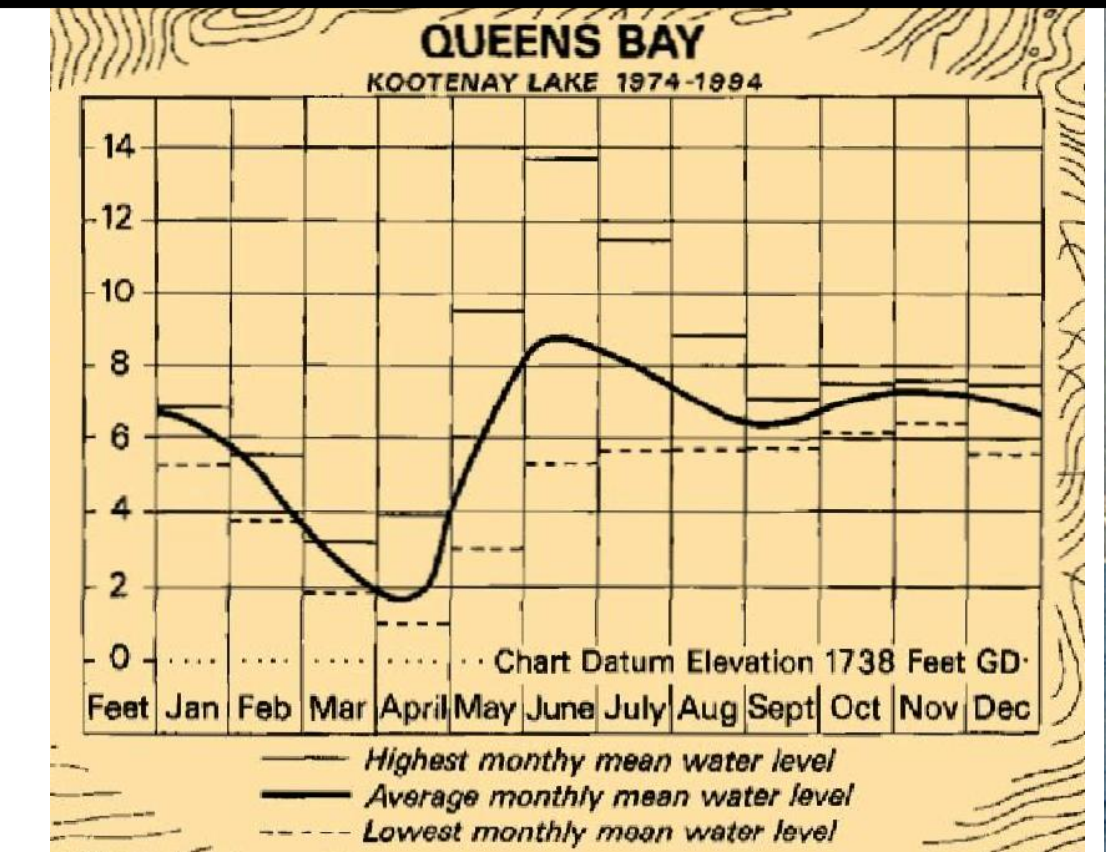


DETAIL 8 01 SCALE: 1:15

SECTION D 01 SCALE: 1:20

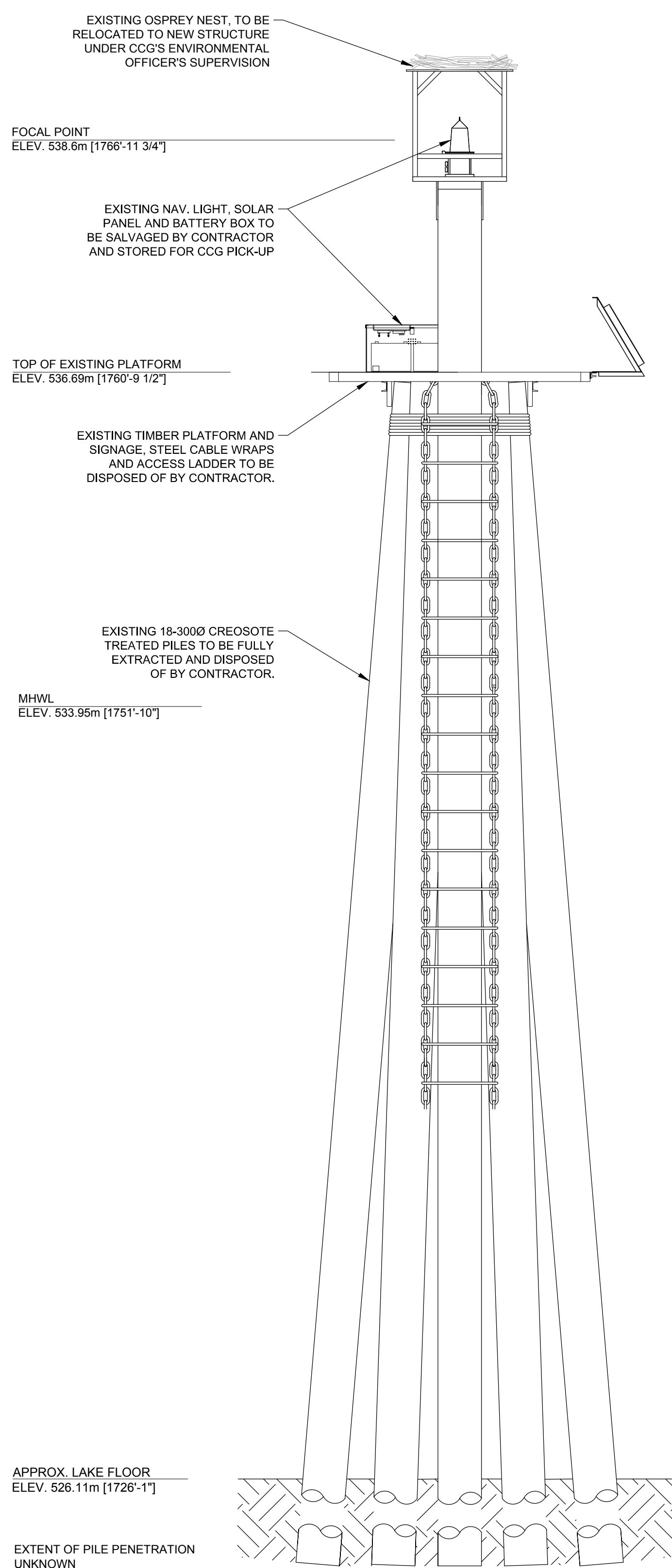


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A	ISSUE FOR REVIEW	AW	2017.02.09
rev	description	by	date
Asset - Actif			
LL 8.3 PROCTER SECTOR LL 8.5 PROCTER LIGHT			
Drawing - Dessin			
3 PILE DOLPHIN AND STEEL PLATFORM			
drawn - dessiné			date
GAR			2017.05.30
designed - conception			date
AW			2017.05.30
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AW			2017.05.30
approved - approuvé			date
AW			2017.05.30
CCG ref. no. - no. réf. GCC			scale - échelle
-			AS SHOWN
drawing no. - no. dessin			sheet/feuille
24035			rev-rév
			02/02 B



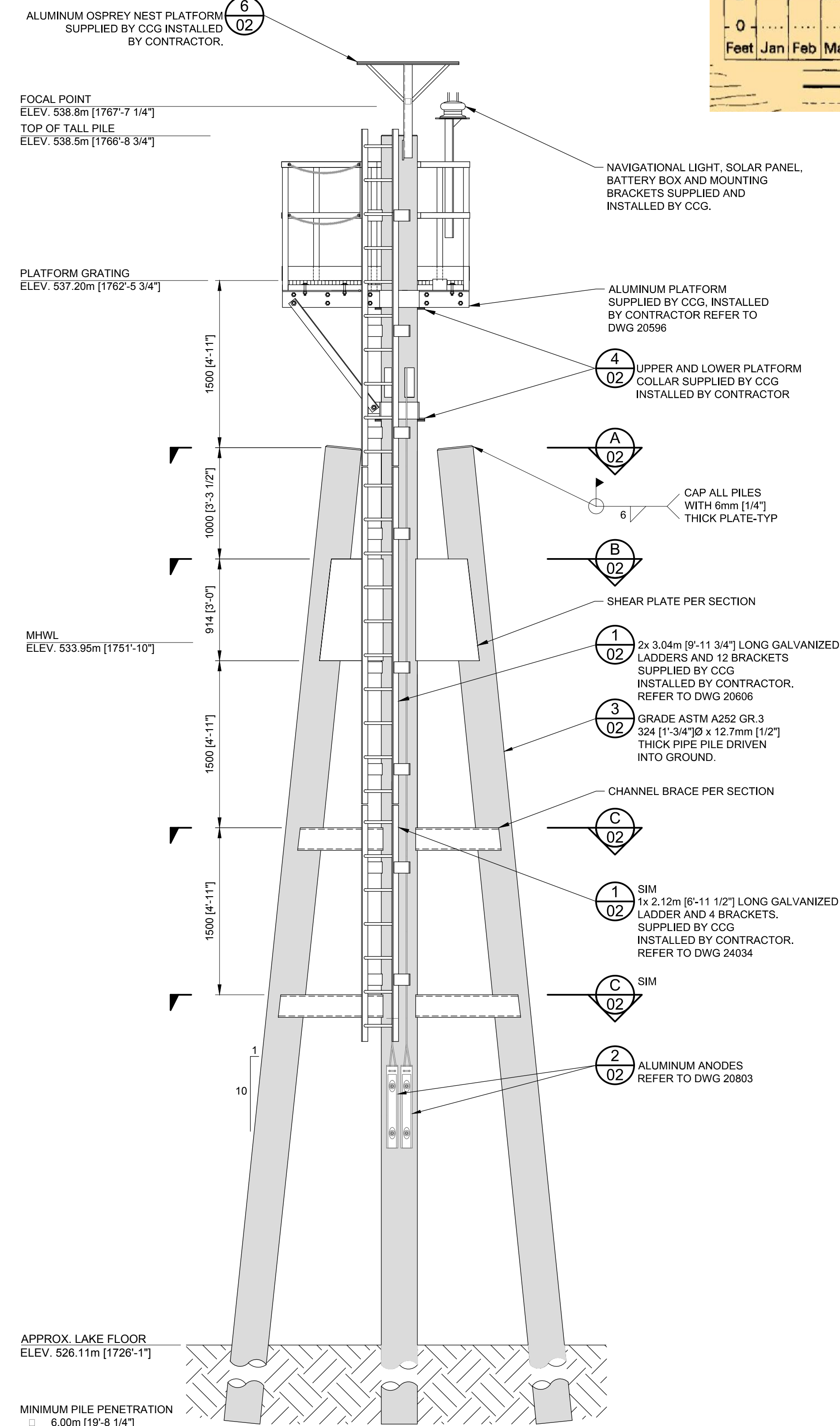
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ELEVATION VIEW

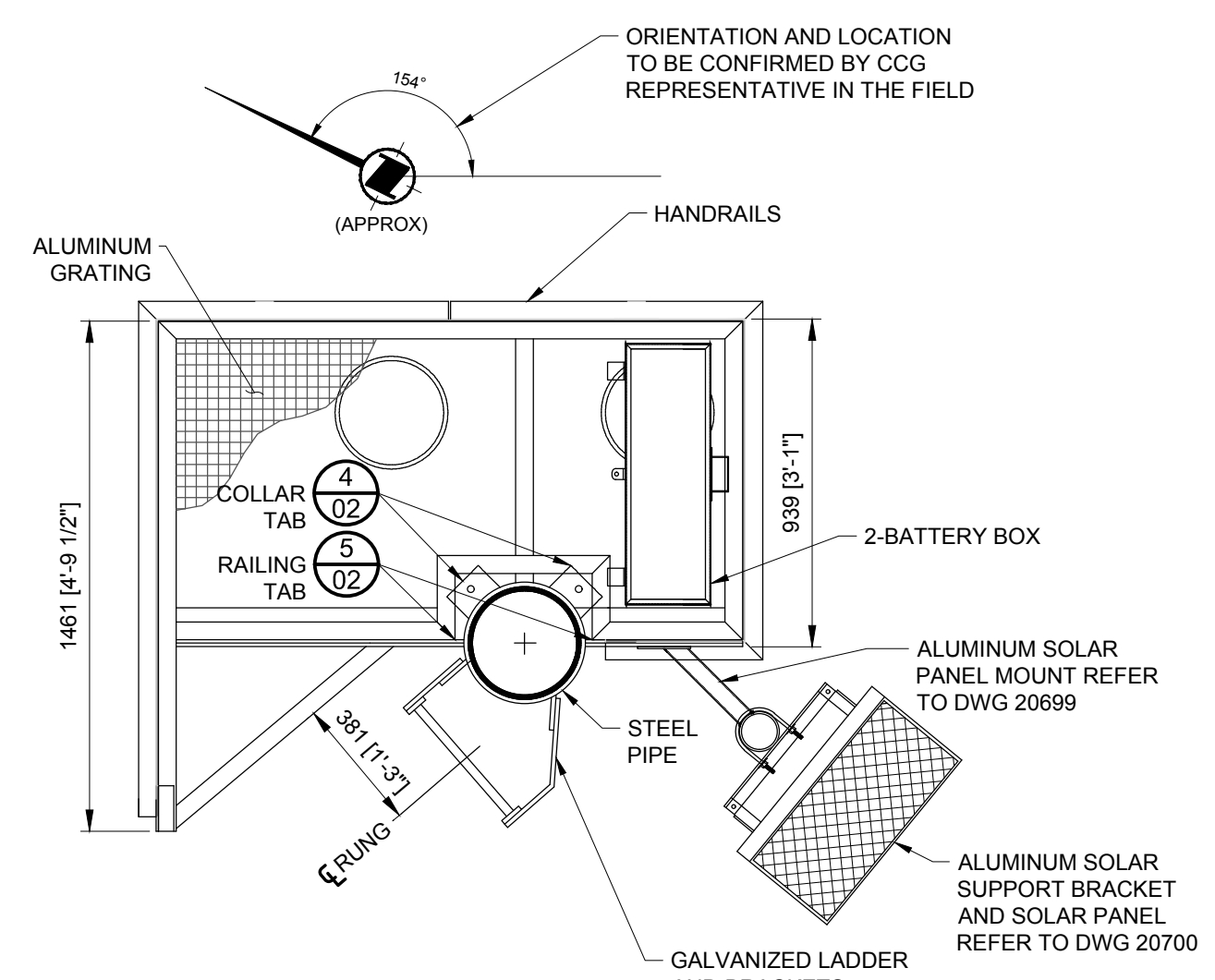
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SCALE: 1:30



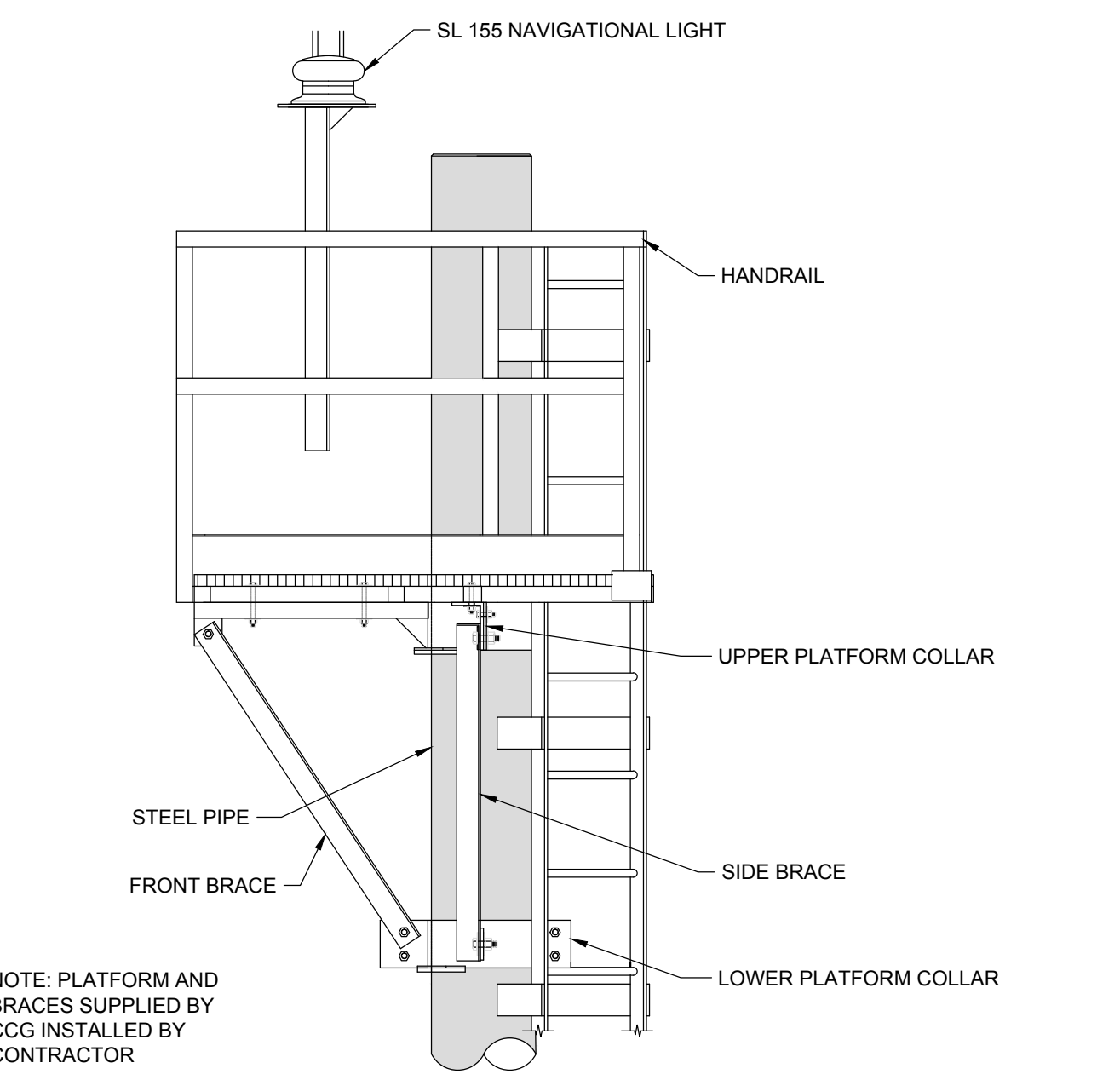
ELEVATION VIEW

PROPOSED 2 3 STEEL PILE DOLPHIN  
SCALE: 1:30

LL 13.3 KOOTENAY LANDING OUTER EXISTING STRUCTURE



PLAN VIEW  
SCALE: 1:20



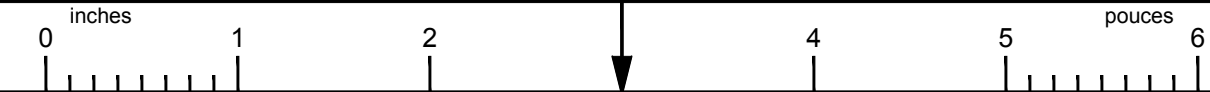
ELEVATION A  
SCALE: 1:20

NOTE: PLATFORM AND BRACES SUPPLIED BY CCG INSTALLED BY CONTRACTOR

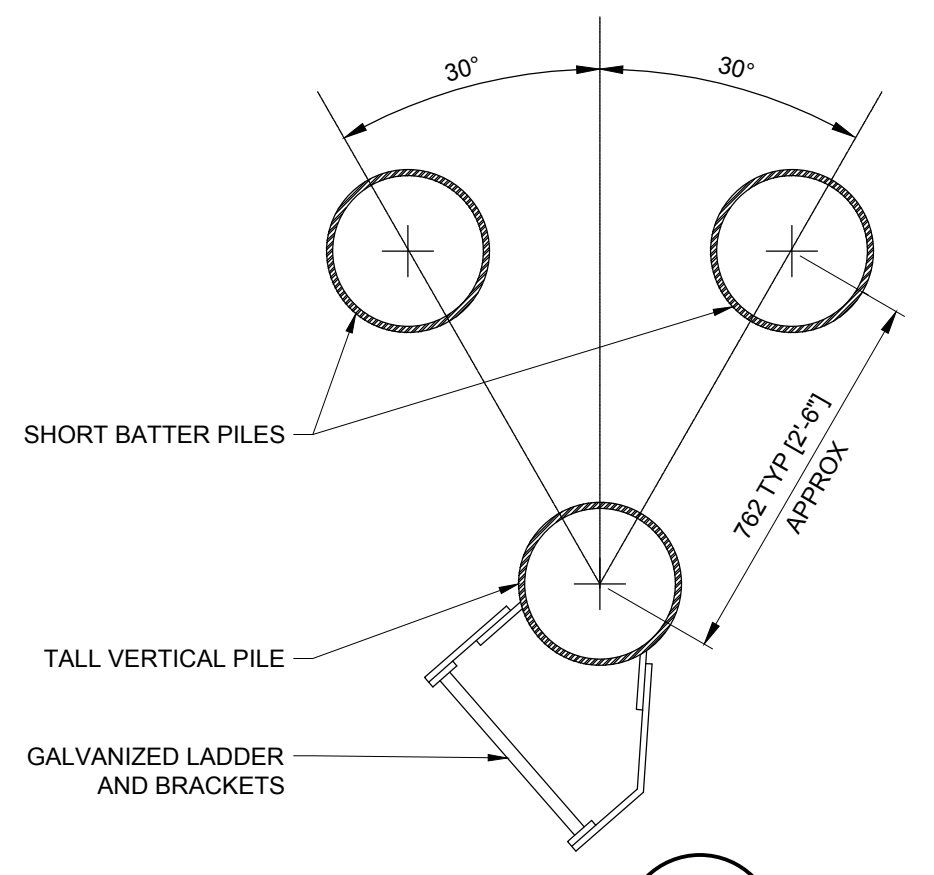
B	ISSUE FOR TENDER	AW	2017.05.30
A	ISSUE FOR REVIEW	AW	2017.03.01
rev	description	by	date
Asset - Actif			
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Drawing - Dessin			
<b>3 PILE DOLPHIN AND ALUMINUM PLATFORM</b>			
drawn - dessiné	date		
GAR	2017.05.30		
designed - conception	date		
AW	2017.05.30		
checked - vérifié	date		
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CCG ref. no. - no. ref. GCC	scale - échelle		
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drawing no. - no. dessin	sheet/feuille	rev-rév	
24010	01/02	B	

24010

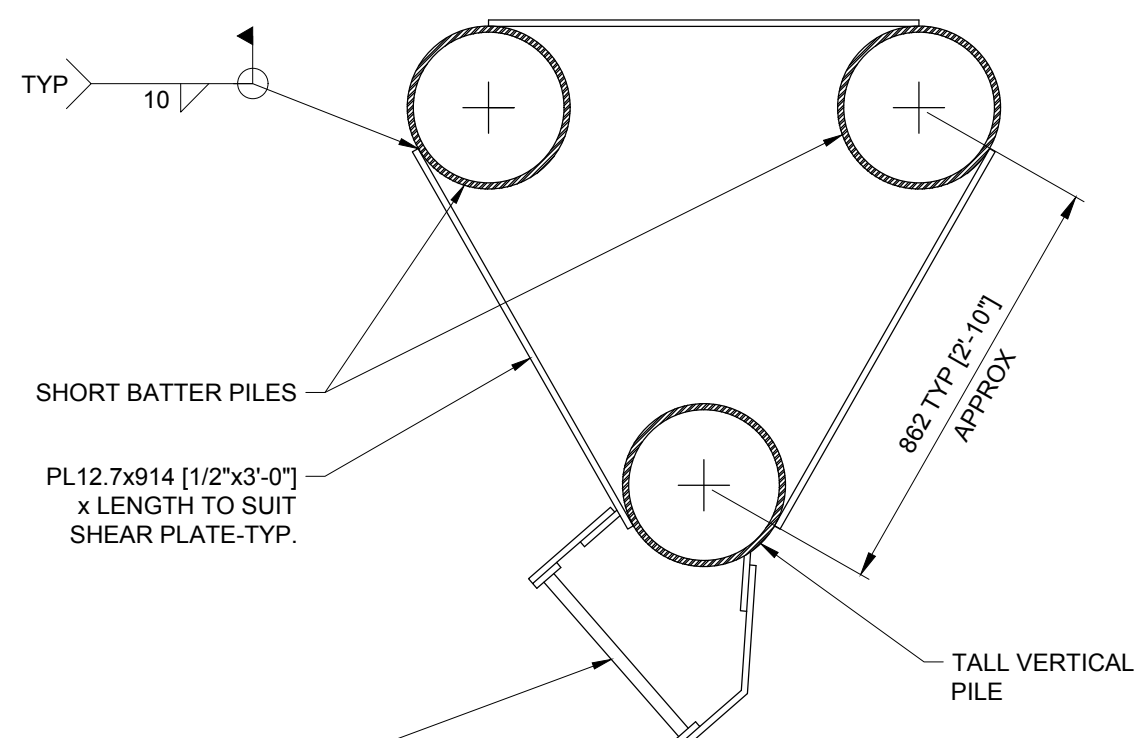
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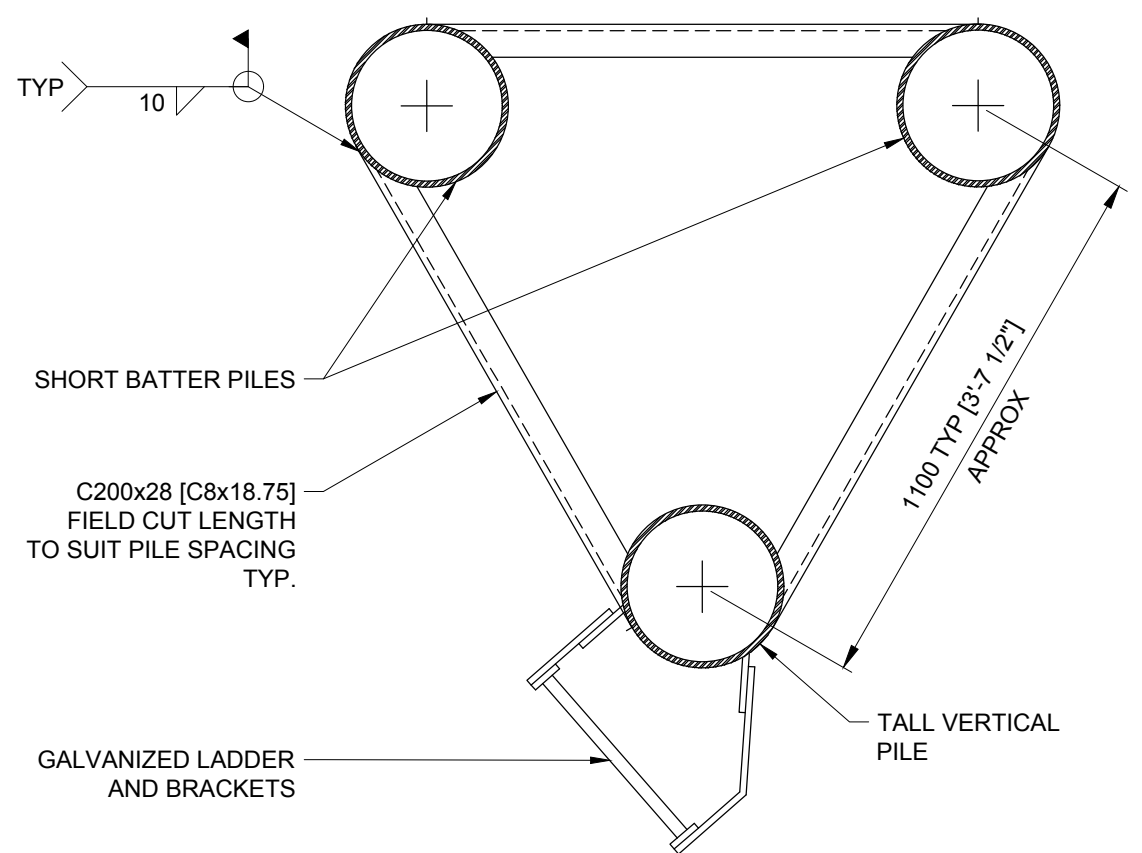
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C  
B  
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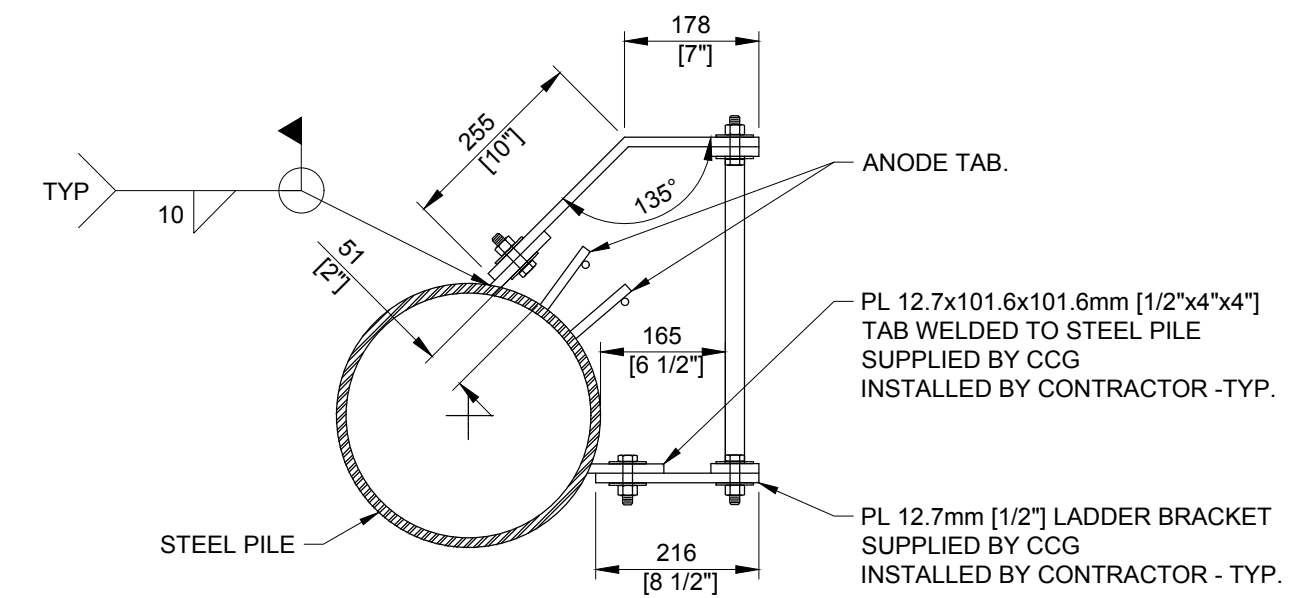
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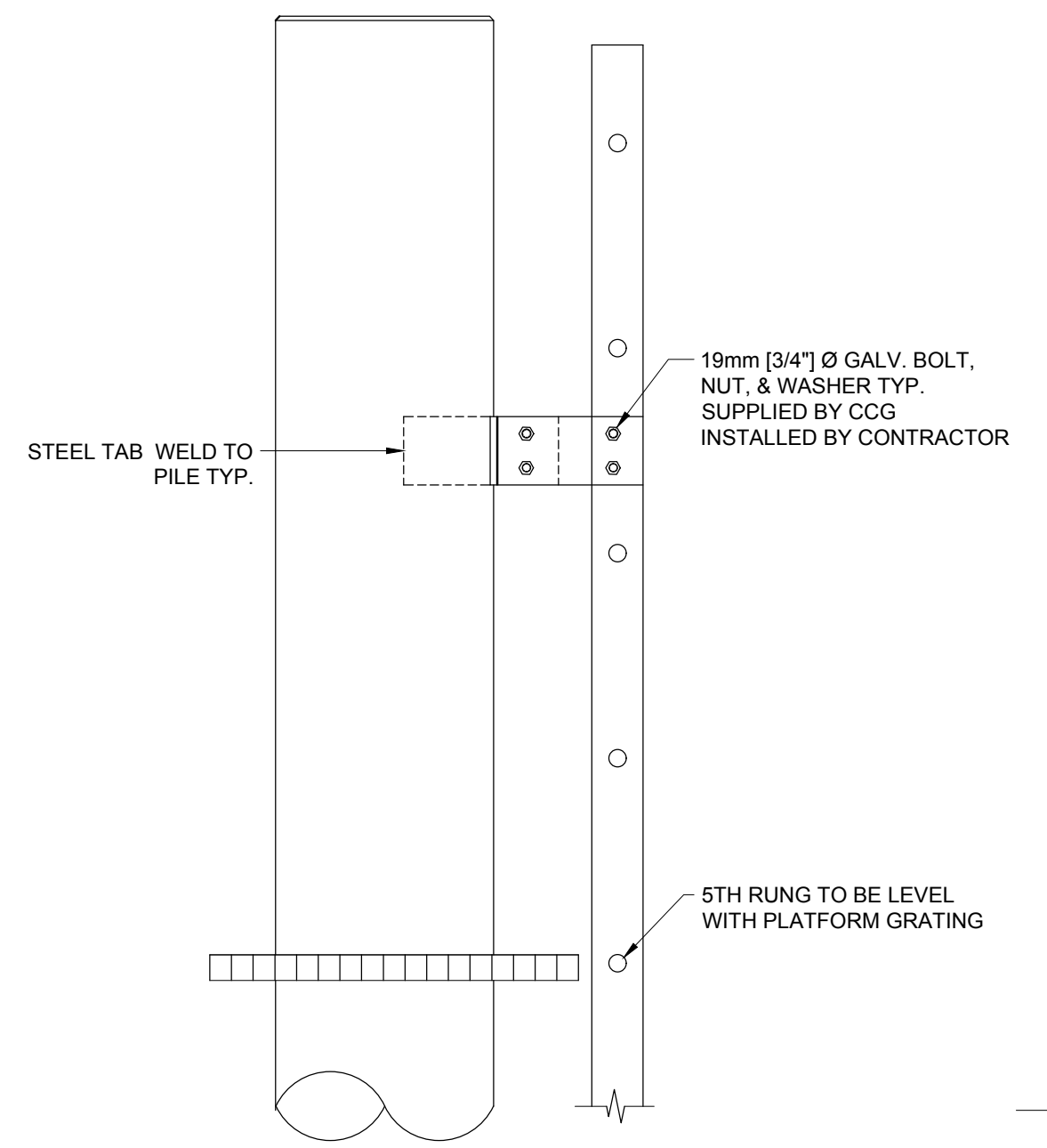
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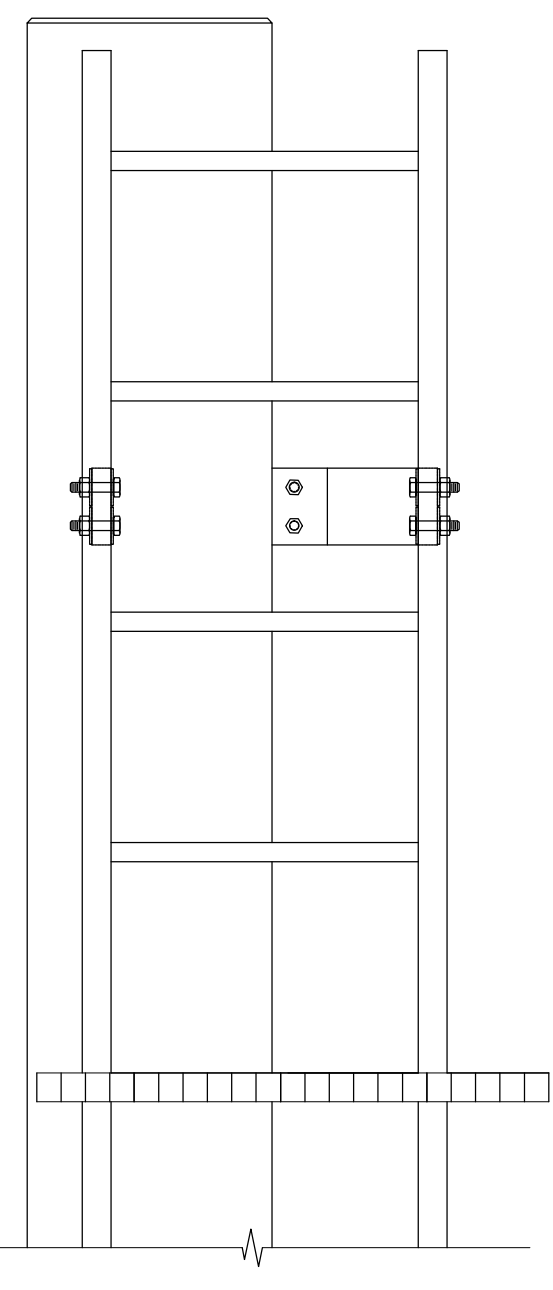
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PLAN

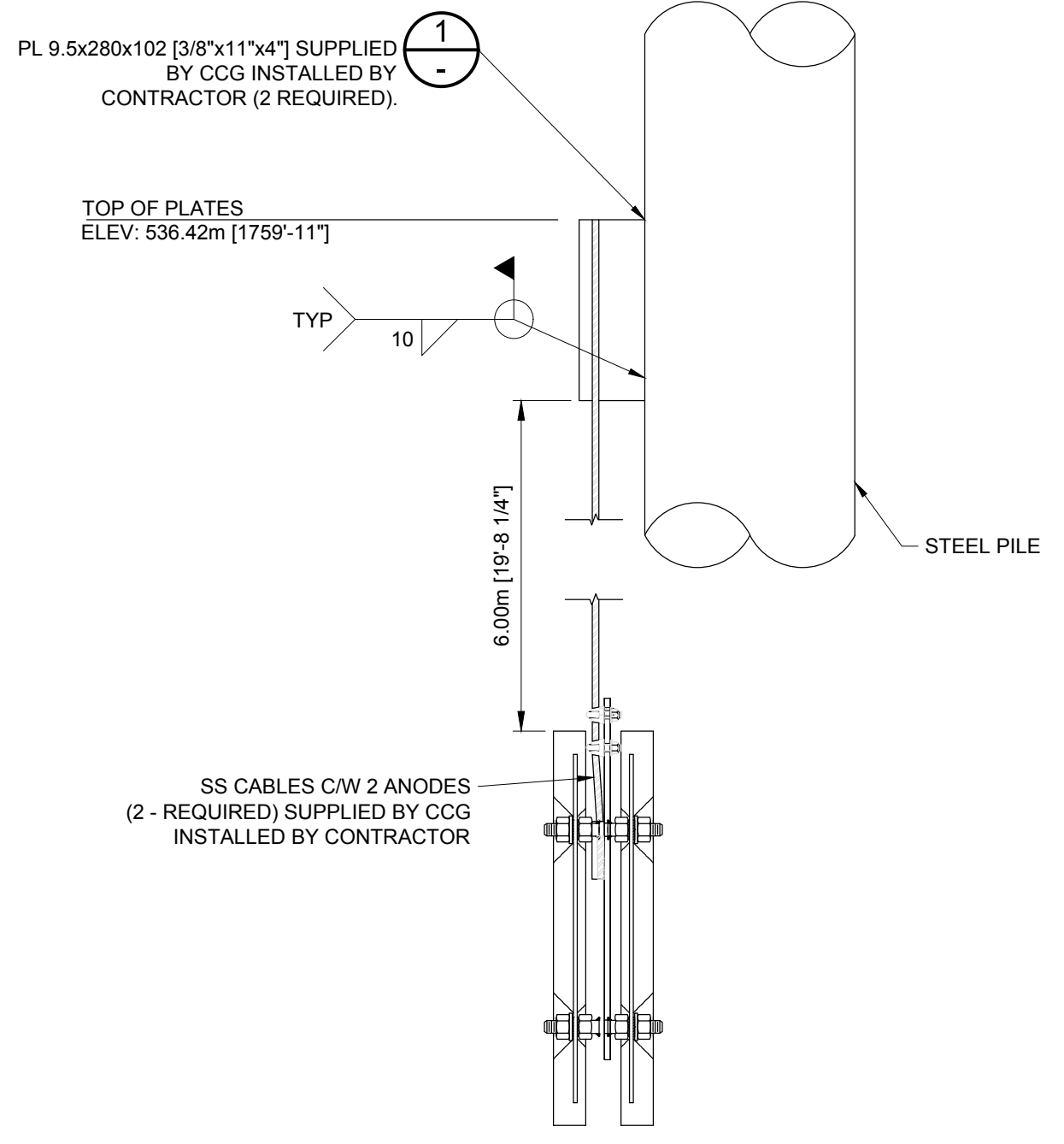


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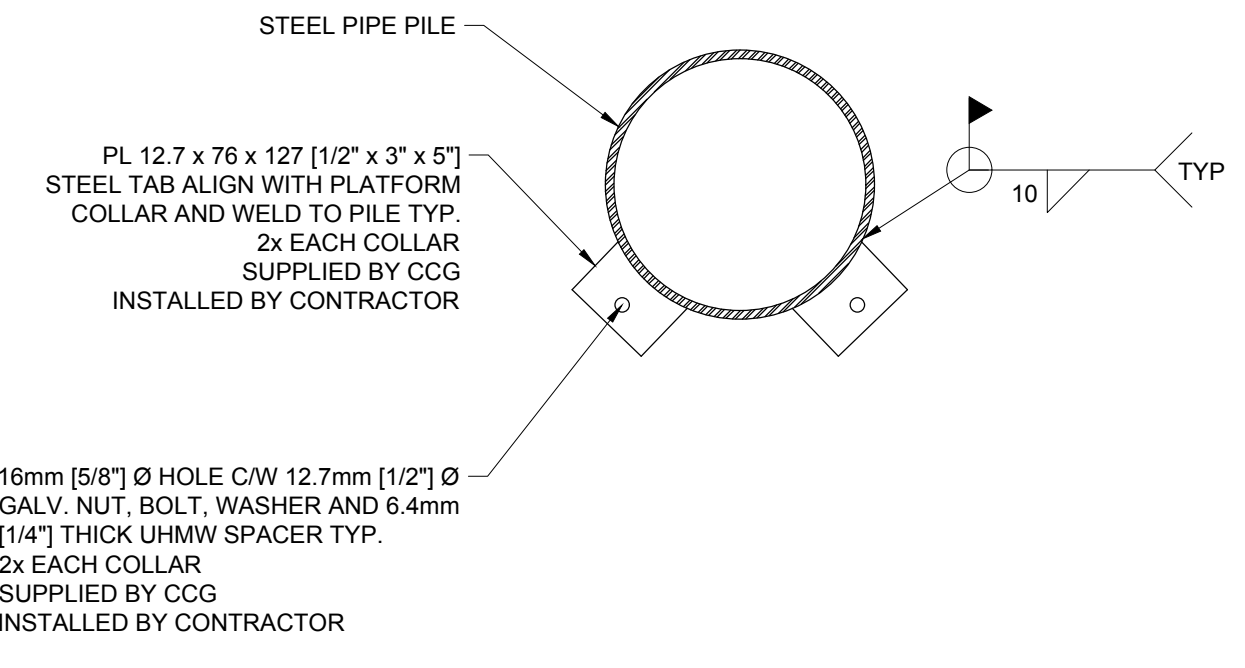


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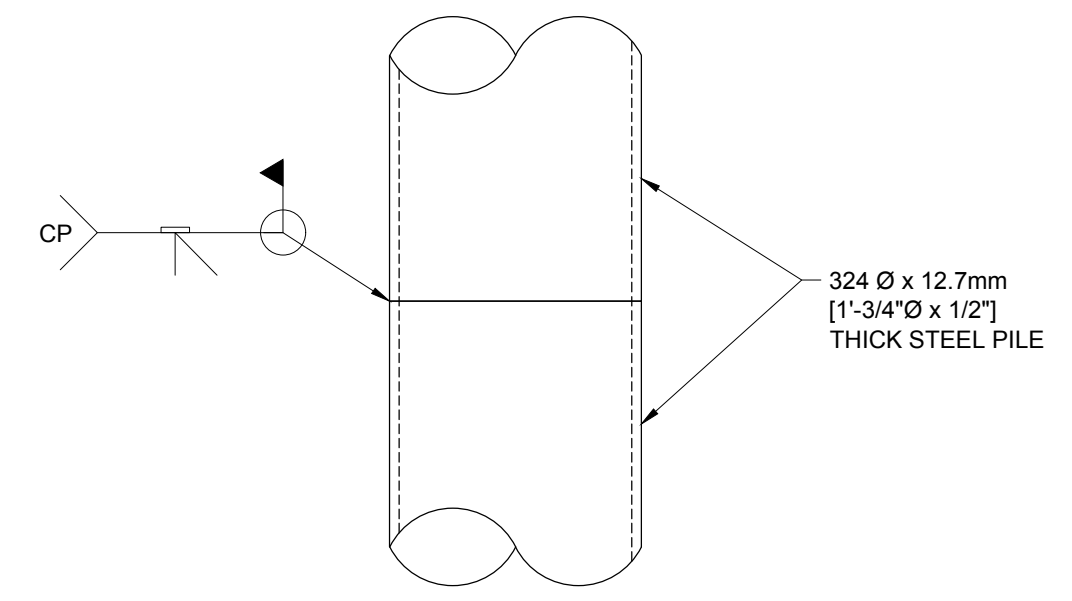
DETAIL 1 01 LADDER AND BRACKETS  
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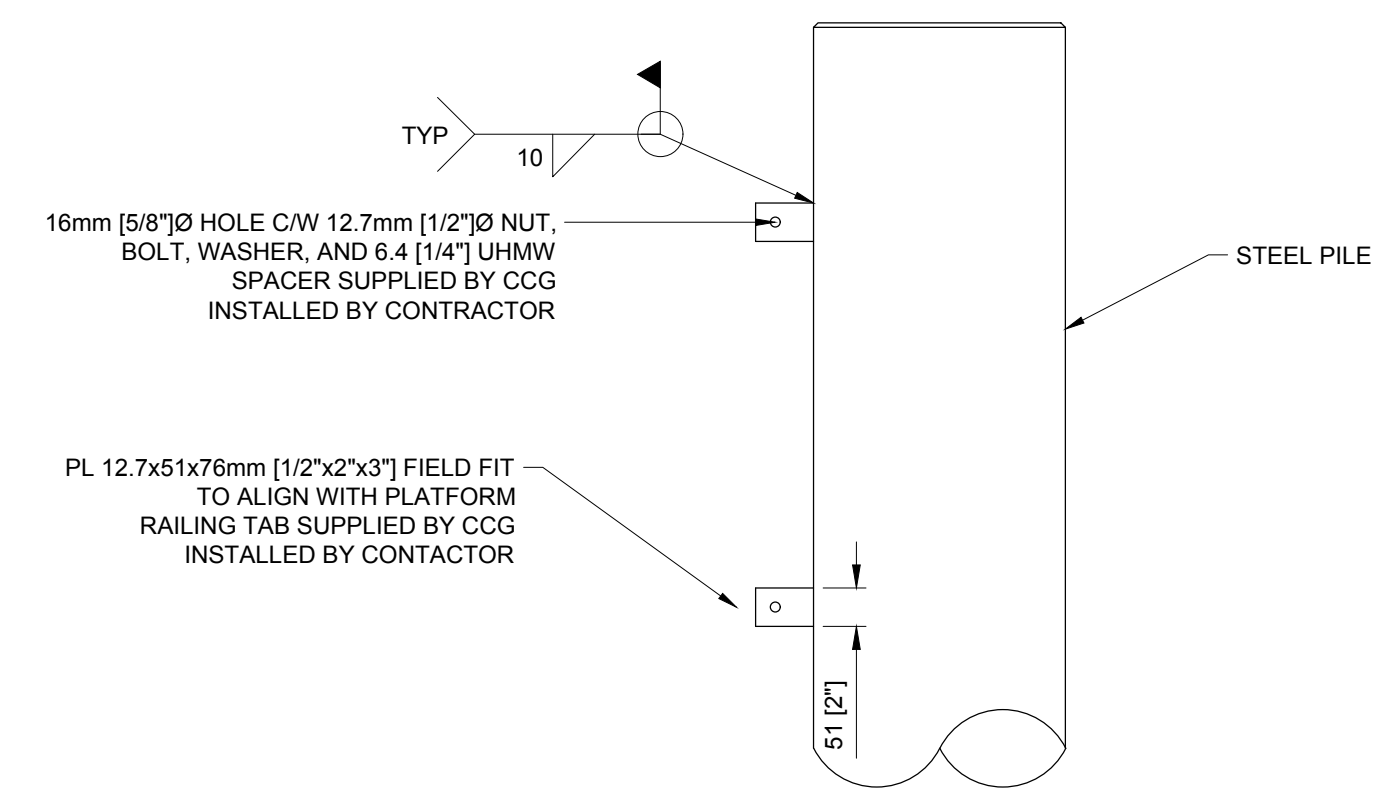
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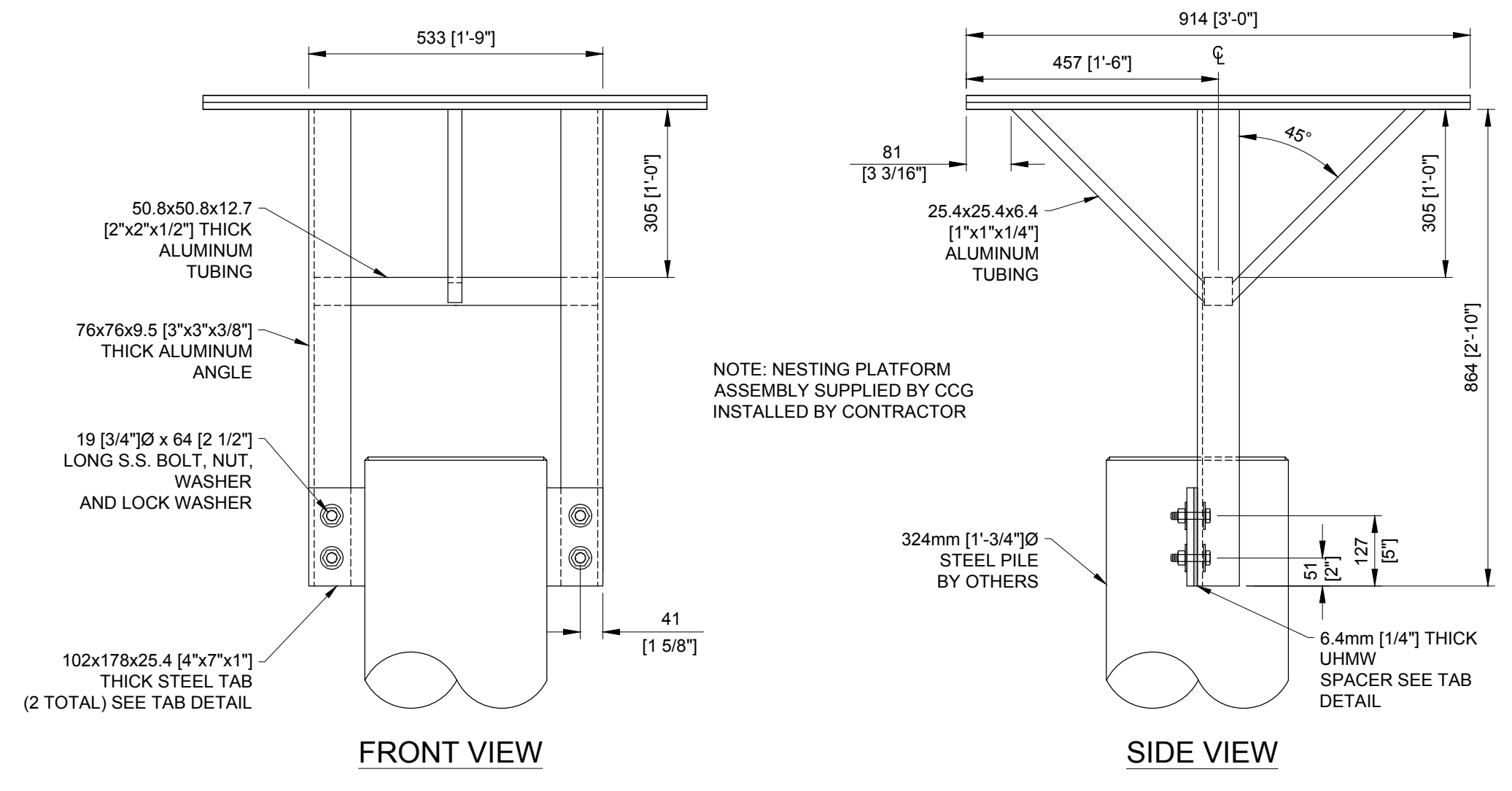
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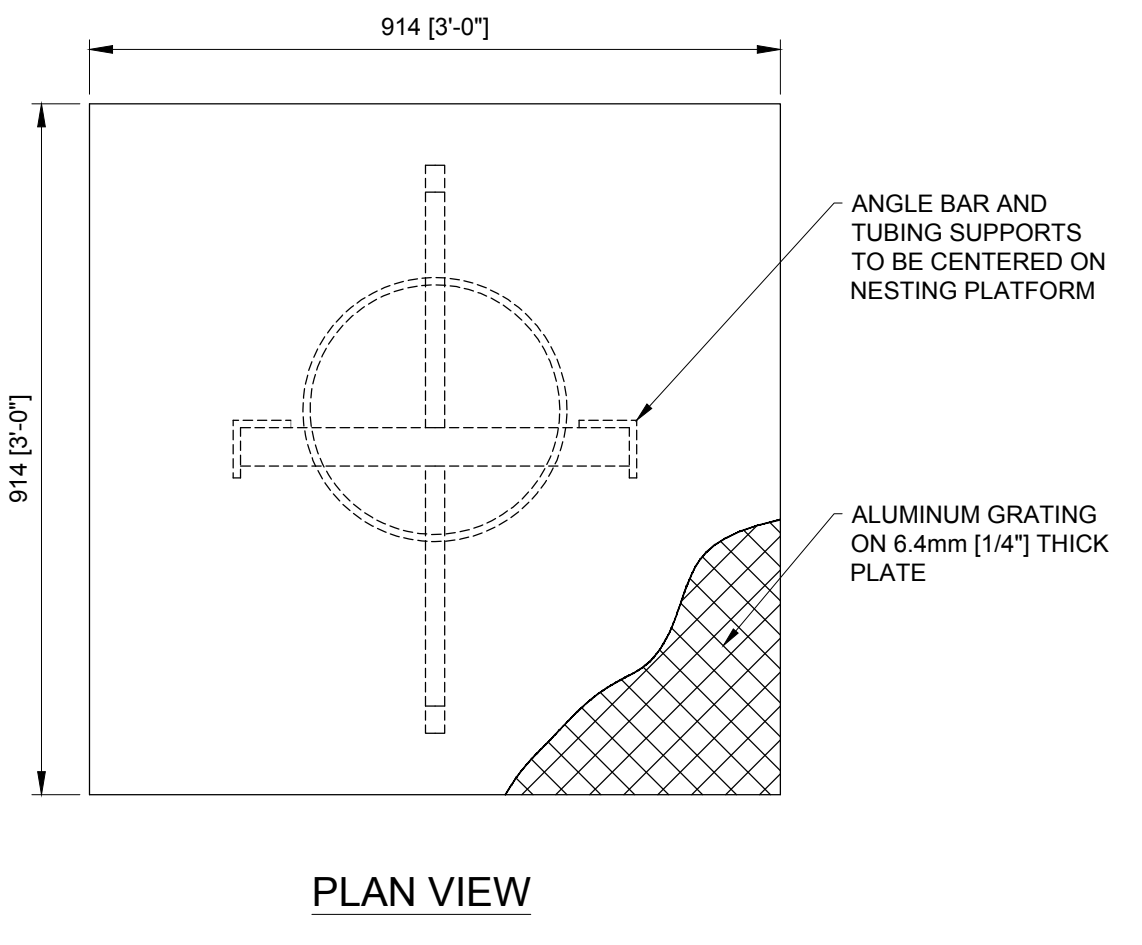
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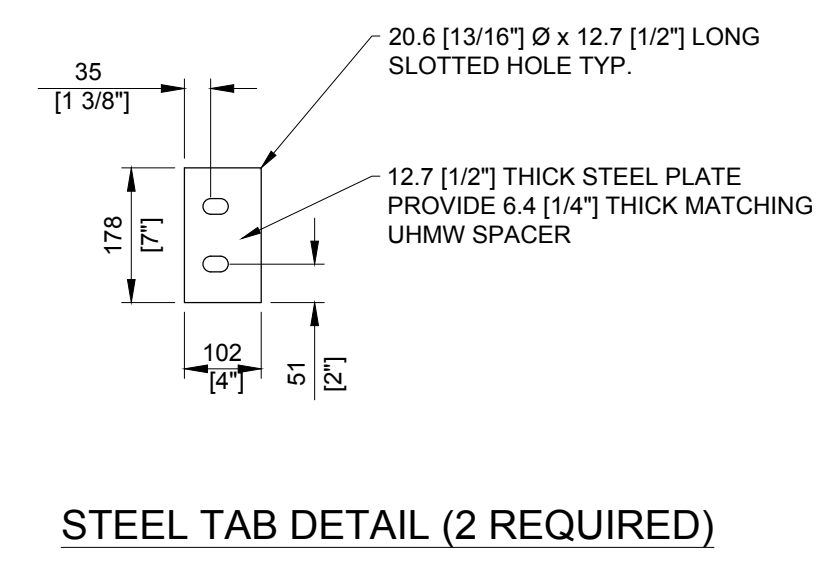
DETAIL 5 01 RAILING TAB  
SCALE: 1:10



DETAIL 6 01 OSPREY NESTING PLATFORM  
SCALE: 1:10



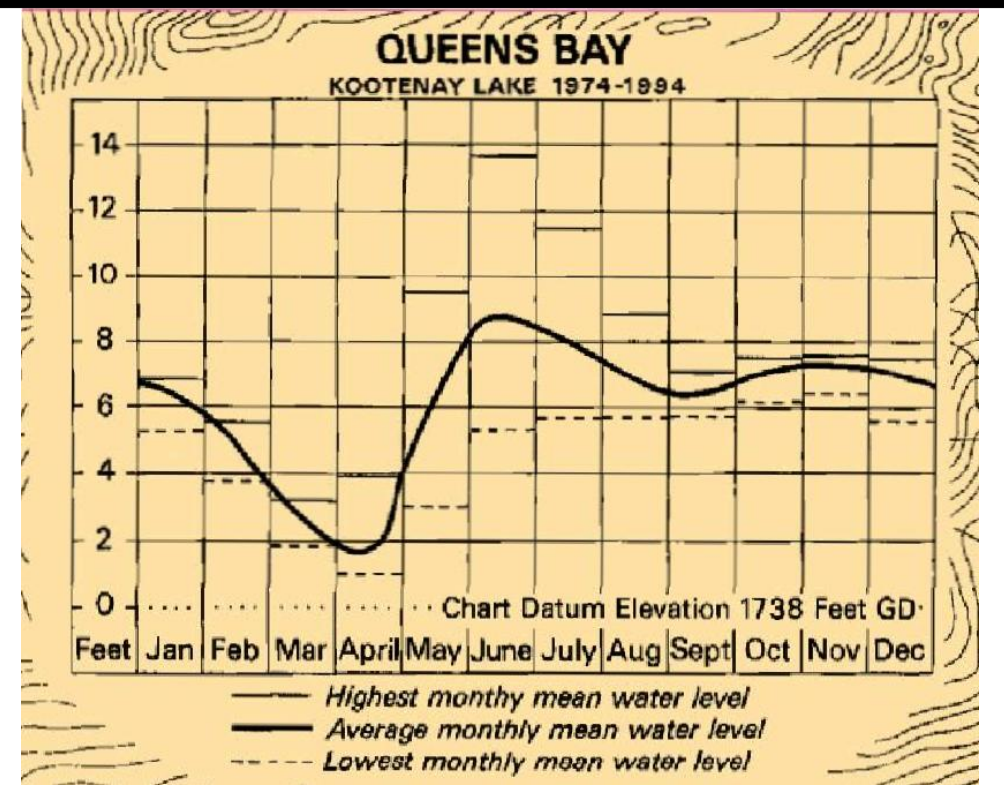
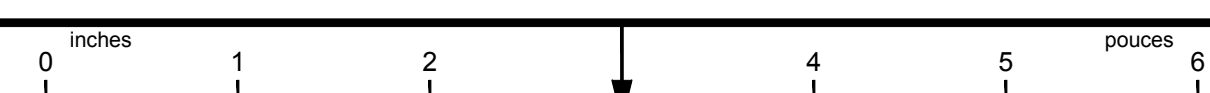
PLAN VIEW



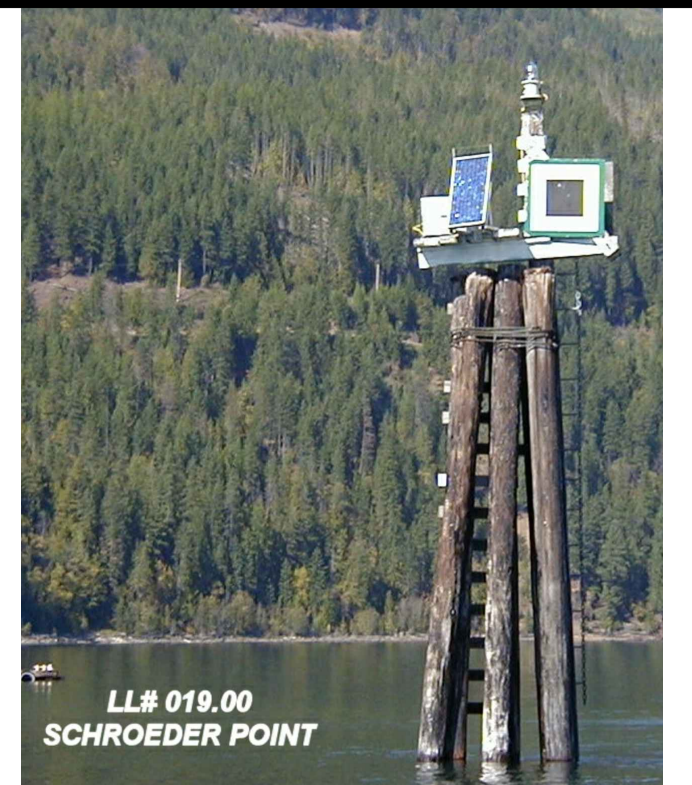
STEEL TAB DETAIL (2 REQUIRED)



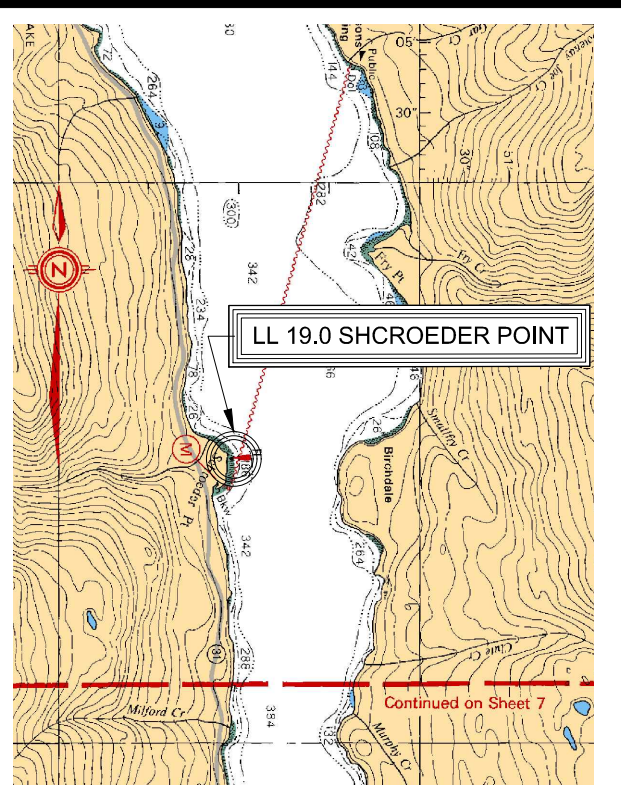
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rev	description	by	date
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Drawing - Dessin			
<b>3 PILE DOLPHIN AND ALUMINUM PLATFORM</b>			
drawn - dessiné			date
GAR			2017.05.30
designed - conception			date
AW			2017.05.30
checked - vérifié			date
AW			2017.05.30
approved - approuvé			date
AW			2017.05.30
CCG ref. no. - no. réf. GCC			scale - échelle
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		02/02	B



MONTHLY MEAN WATER LEVELS



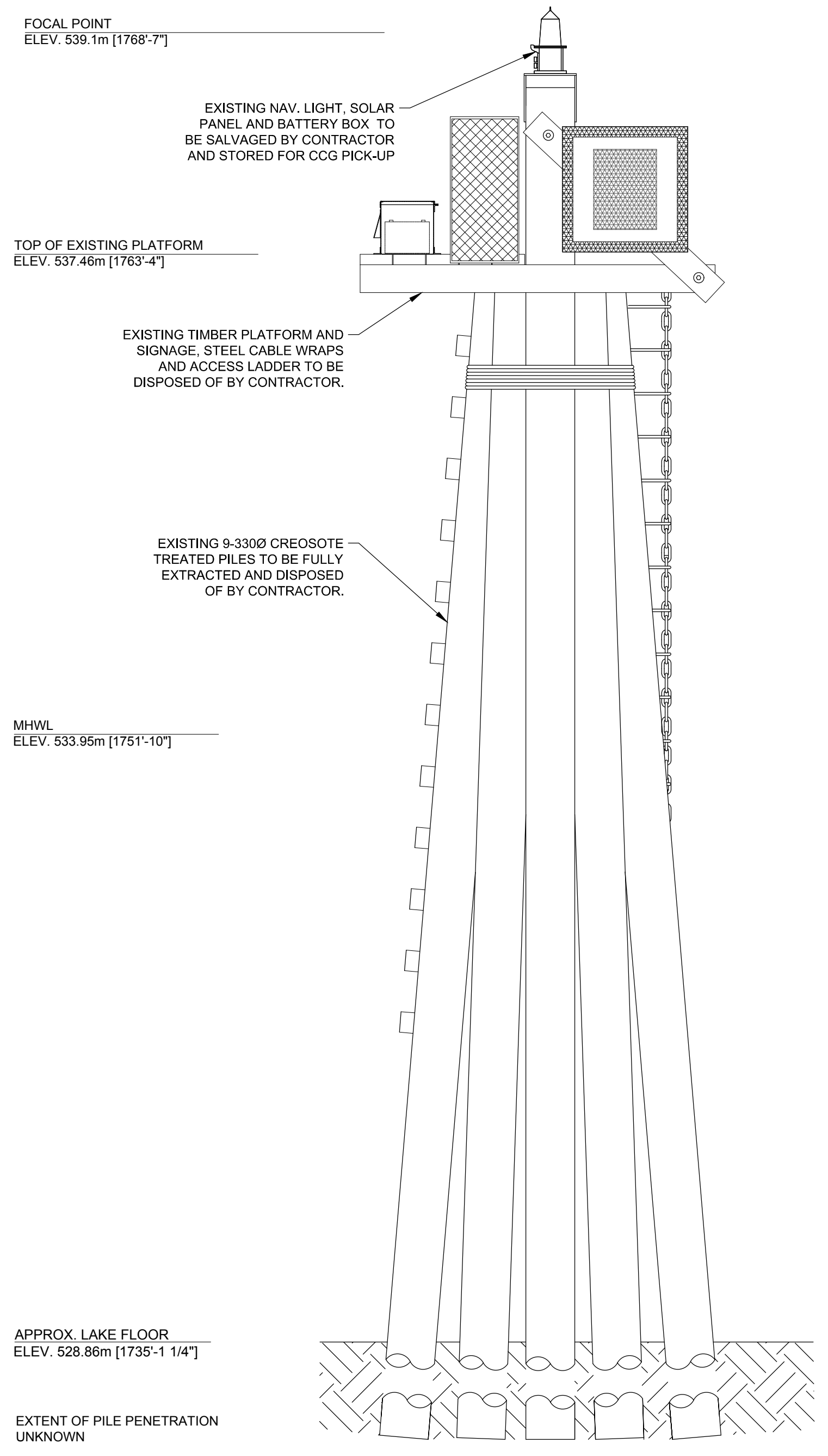
LL 19.0 SCHROEDER POINT EXISTING STRUCTURE



LOCATION CHART (PART OF 3050) N.T.S.

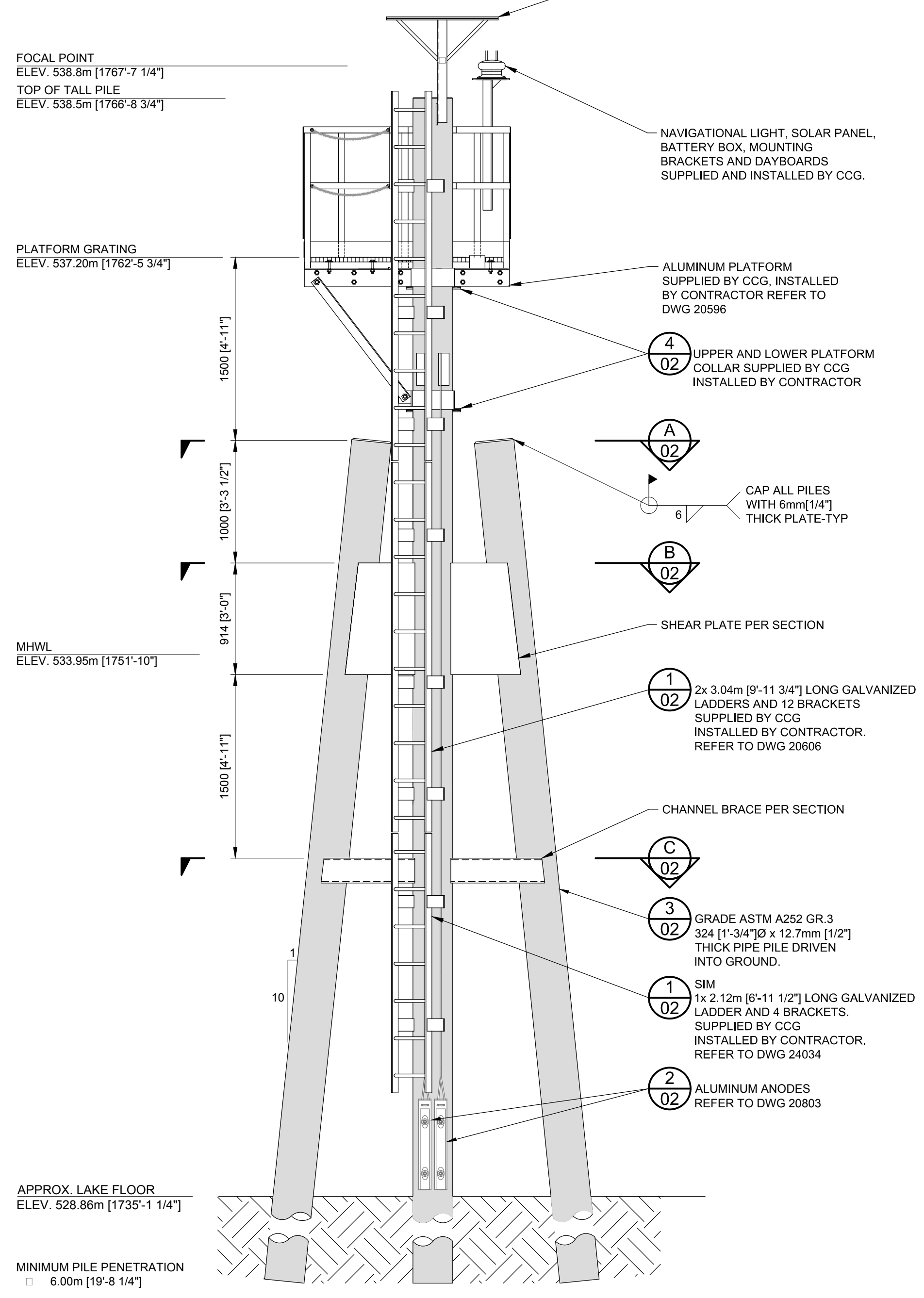
- GENERAL NOTES**
- THESE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
  - ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAS BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE CONDITIONS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
  - DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
  - CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
  - DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
  - CONTRACTOR TO MEASURE AND VERIFY PILE LENGTHS PRIOR TO ORDERING MATERIALS.
  - CCG SUPPLIED MATERIALS WILL BE DELIVERED BY CCG TO THE CONTRACTOR.
  - ELEVATIONS SHOWN ARE APPROXIMATE.
  - WATER LEVELS AND GROUND ELEVATIONS ARE REFERENCED TO CHART DATUM.

- STRUCTURAL STEEL - CCG**
- SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16.
  - ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2.
  - STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
    - 1 CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
    - 2 HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
    - 3 COLD FORMED METAL: CAN/CSA-S136
    - 4 STRUCTURAL BOLTS: ASTM-A325
    - 5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
  - ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT BE PAINTED.
  - ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS. CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
  - BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
  - STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
  - BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
  - GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED.
  - ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET.
  - HOT DIP GALVANIZING TO A123M MIN COATING 600g/m<sup>2</sup>.
  - ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.



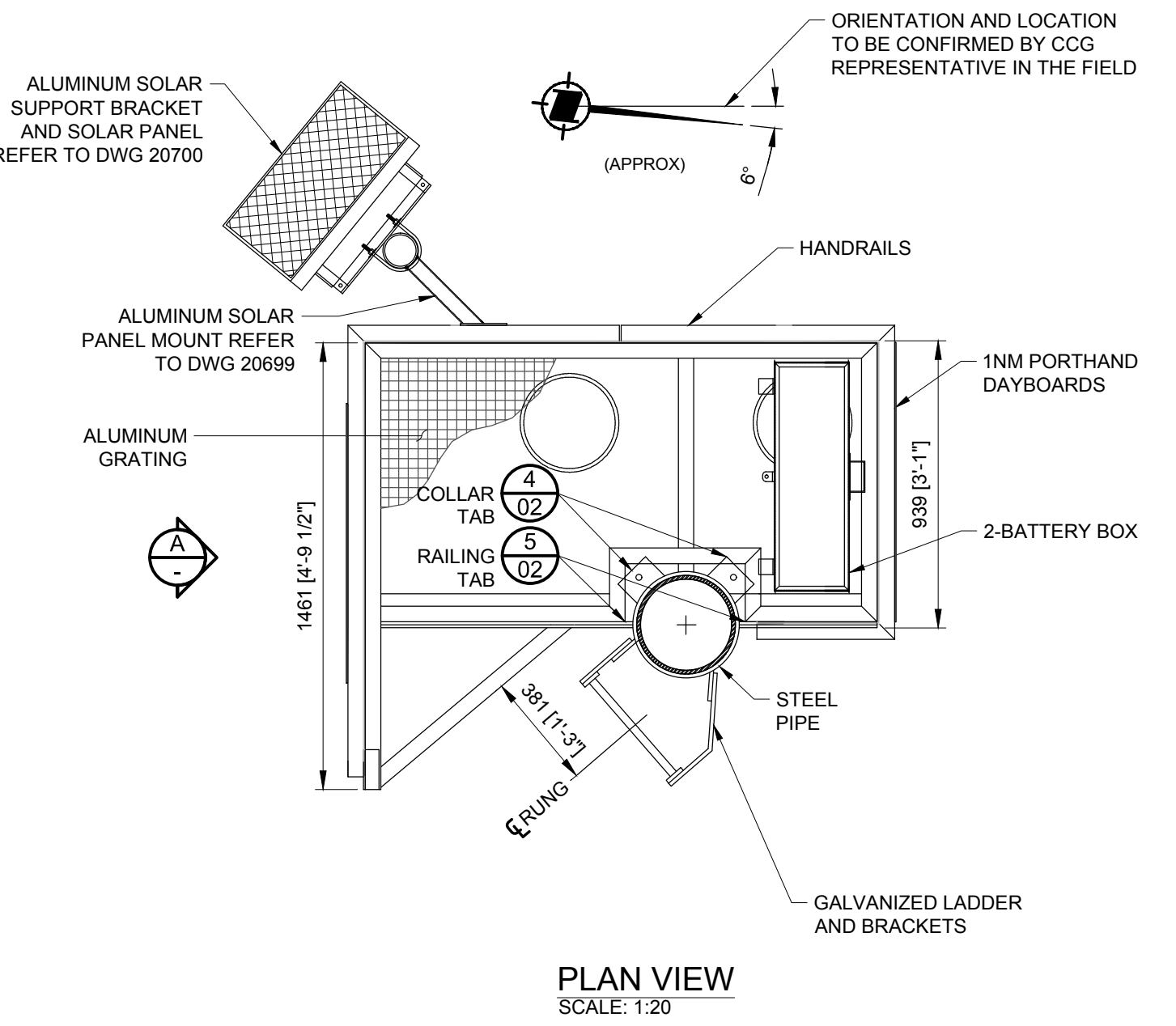
ELEVATION VIEW

EXISTING 1 9 TIMBER PILE DOLPHIN  
SCALE: 1:30

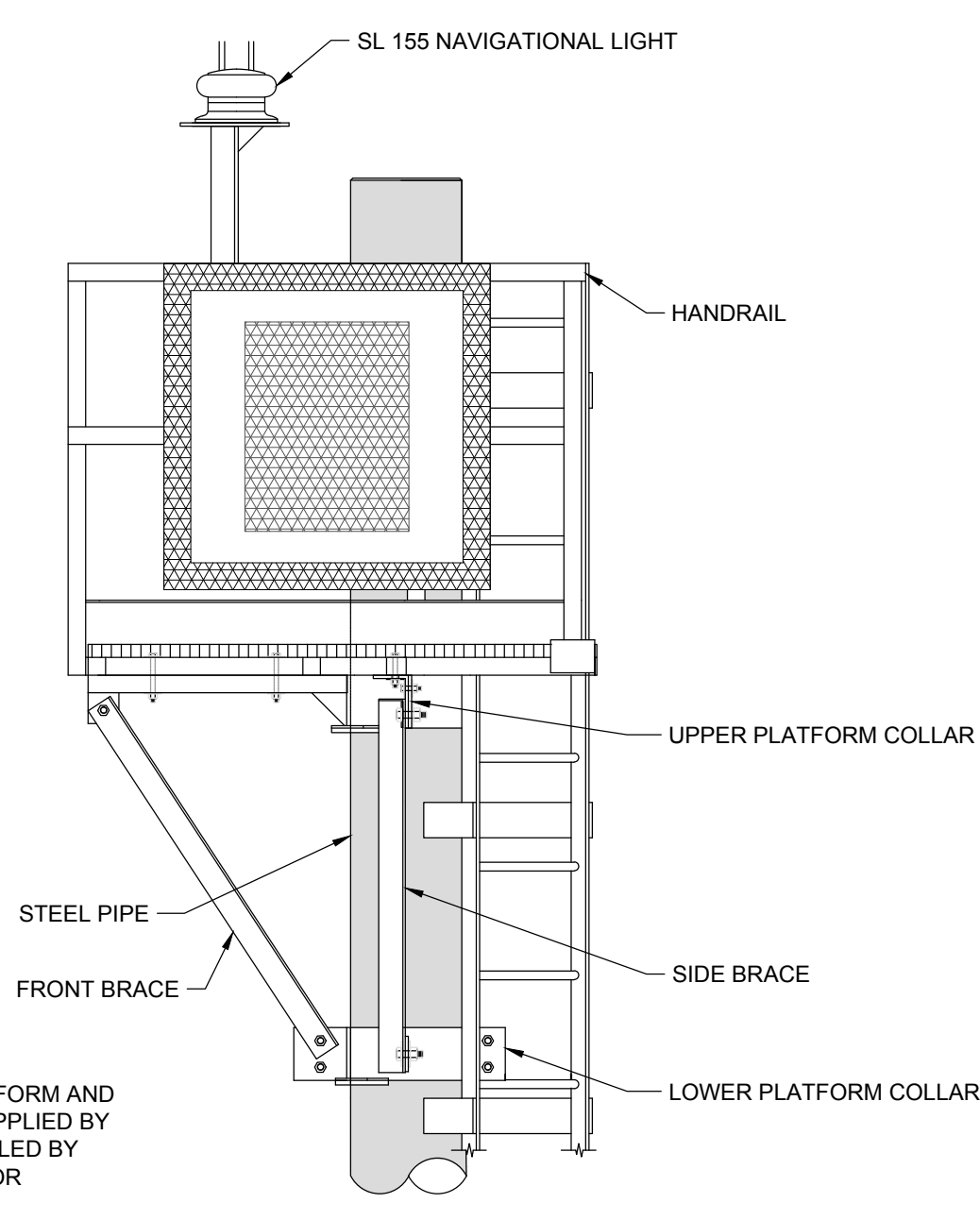


ELEVATION VIEW

PROPOSED 2 3 STEEL PILE DOLPHIN  
SCALE: 1:30



PLAN VIEW SCALE: 1:20

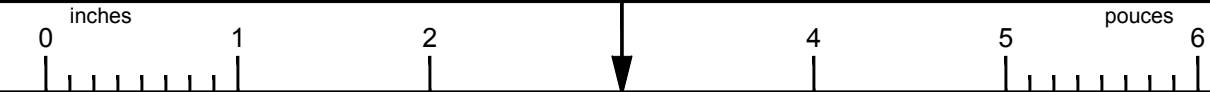


ELEVATION A SCALE: 1:20

NOTE: PLATFORM AND BRACES SUPPLIED BY CCG INSTALLED BY CONTRACTOR

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Drawing - Dessin			
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drawn - dessiné		date	
GAR		2017.05.30	
designed - conception		date	
AW		2017.05.30	
checked - vérifié		date	
AW		2017.05.30	
approved - approuvé		date	
AW		2017.05.30	
CCG ref. no. - no. réf. GCC		scale - échelle	
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drawing no. - no. dessin		sheet-feuille	rev-rév
24011		01/02	B





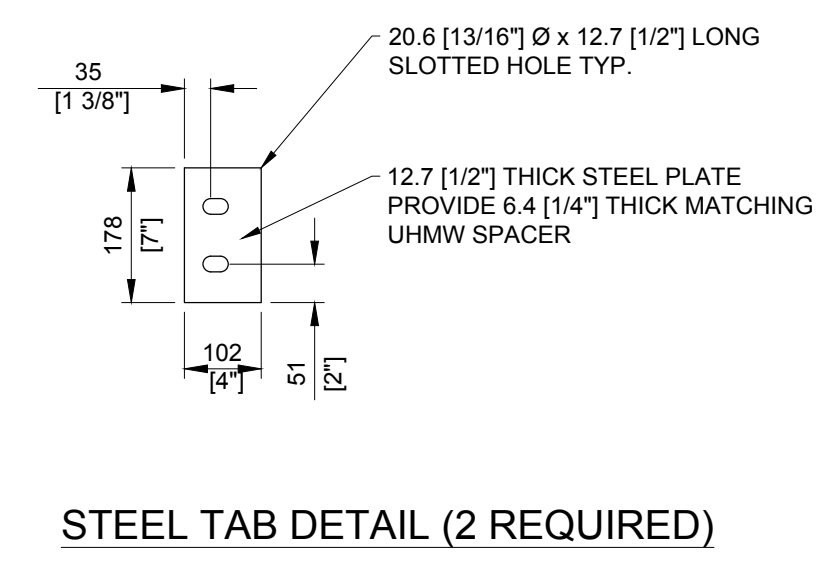
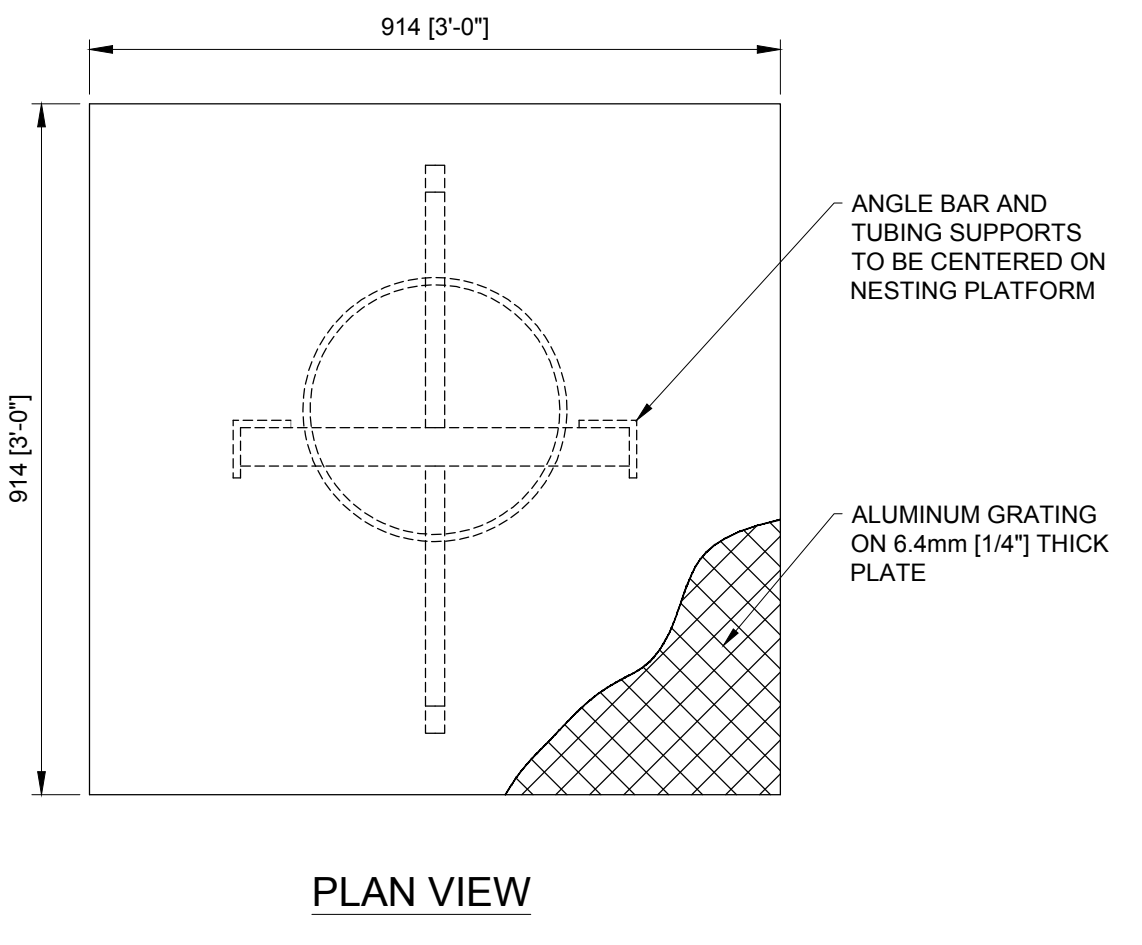
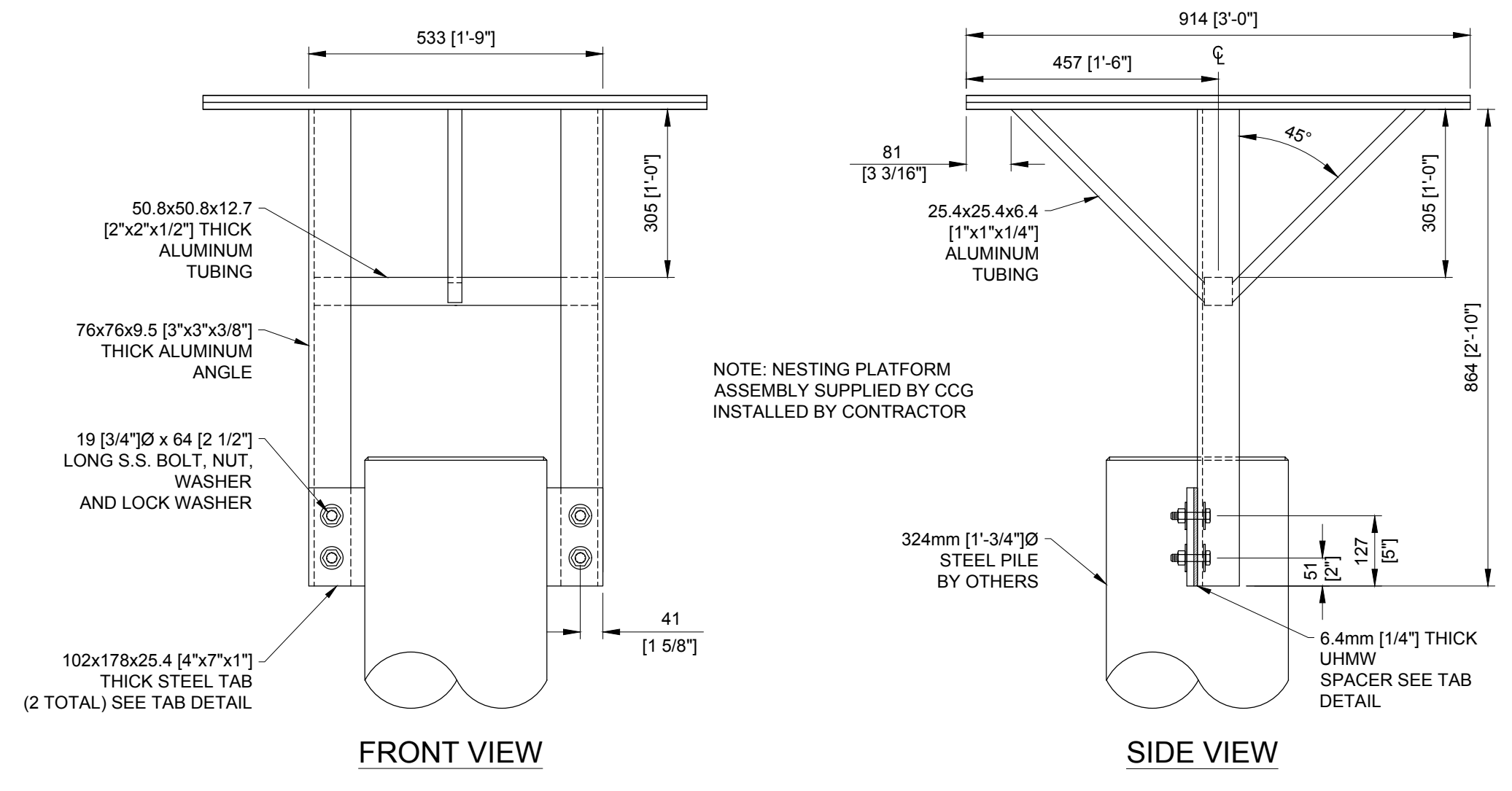
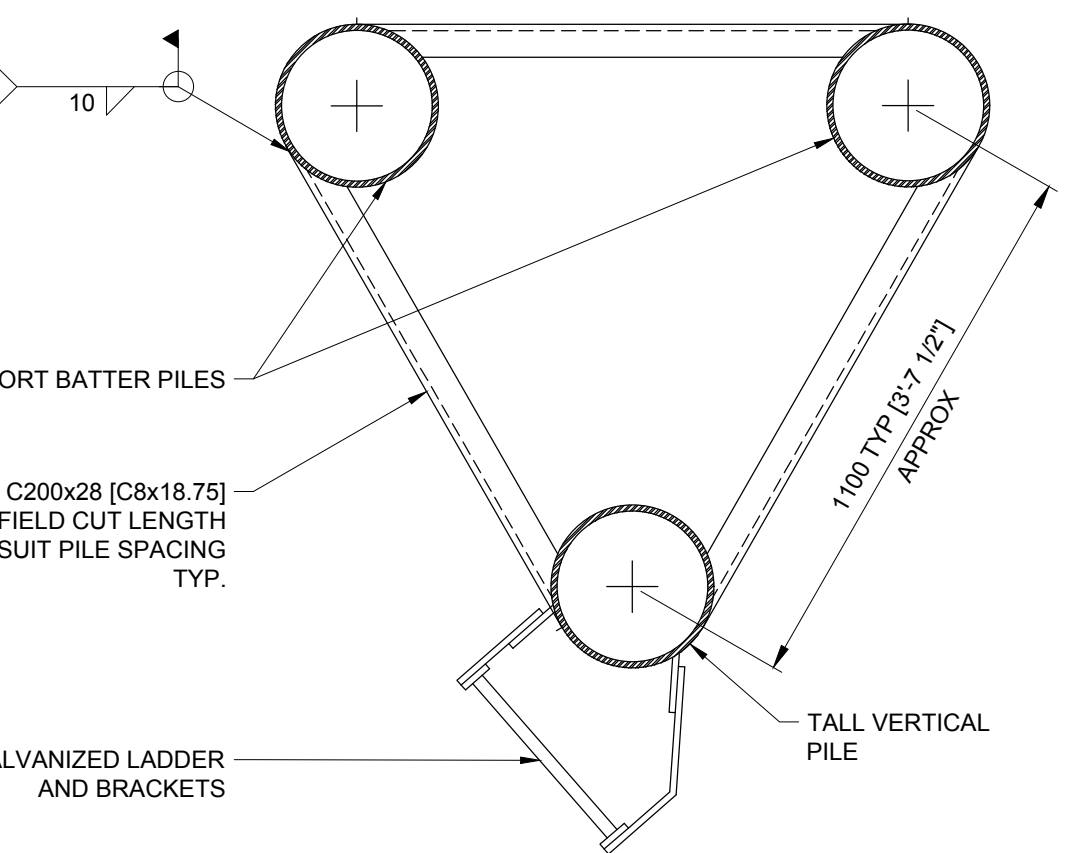
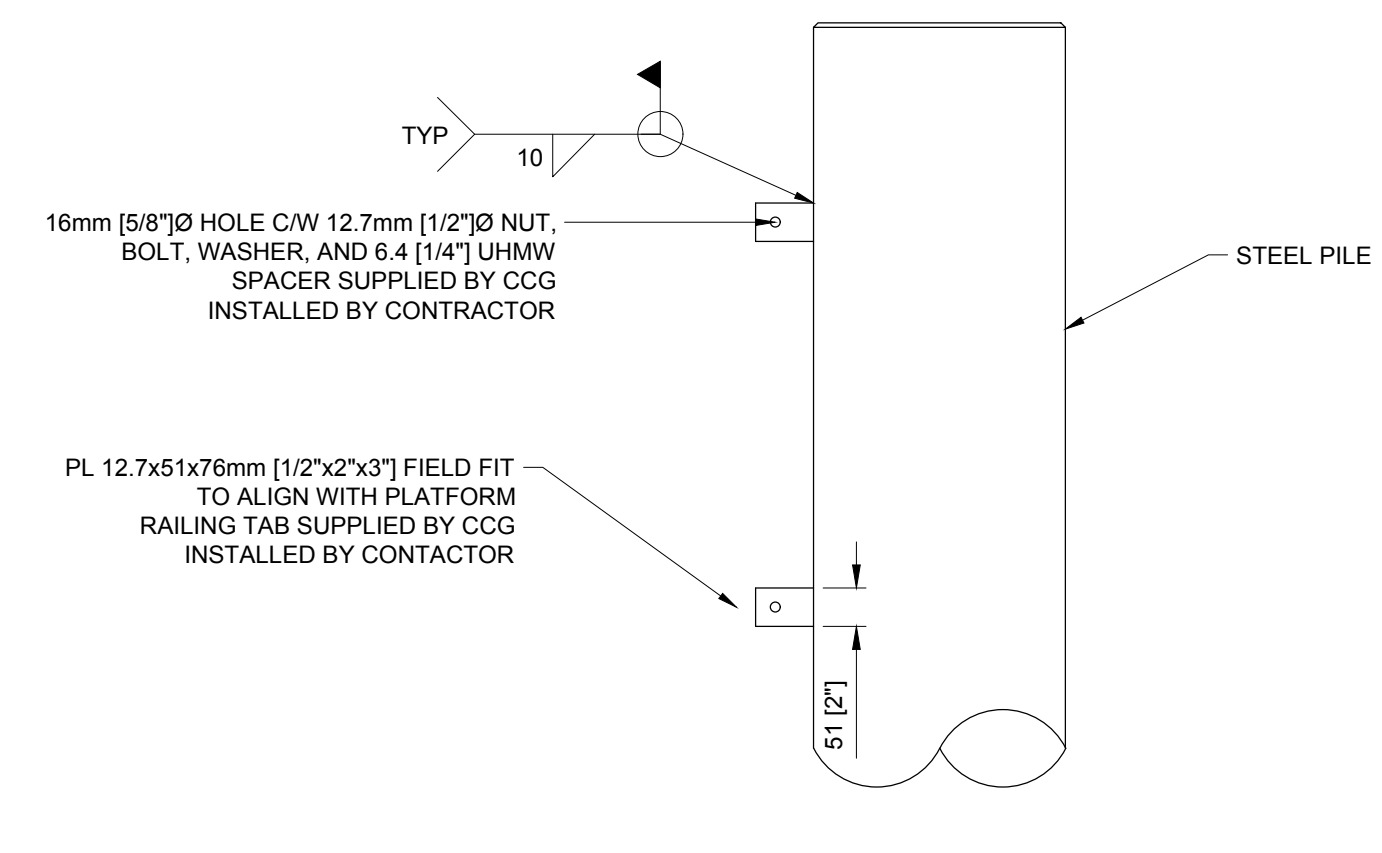
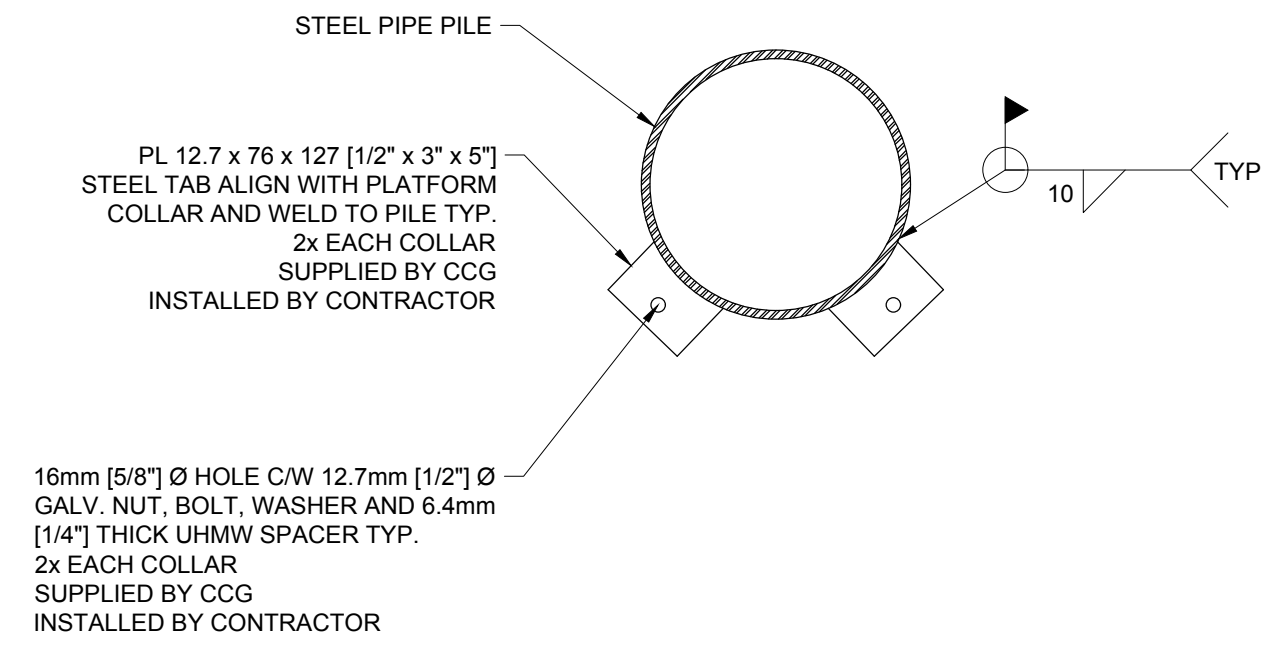
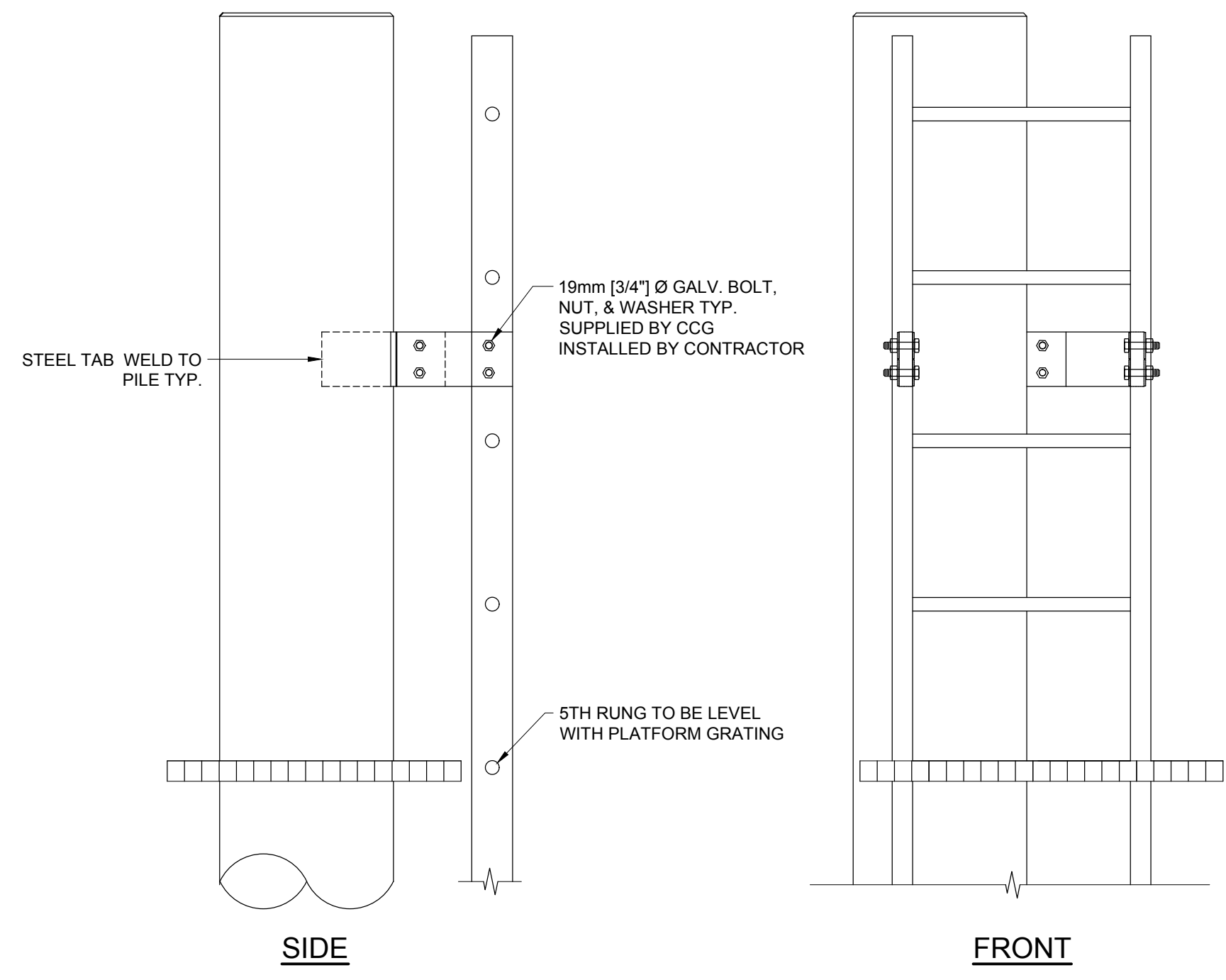
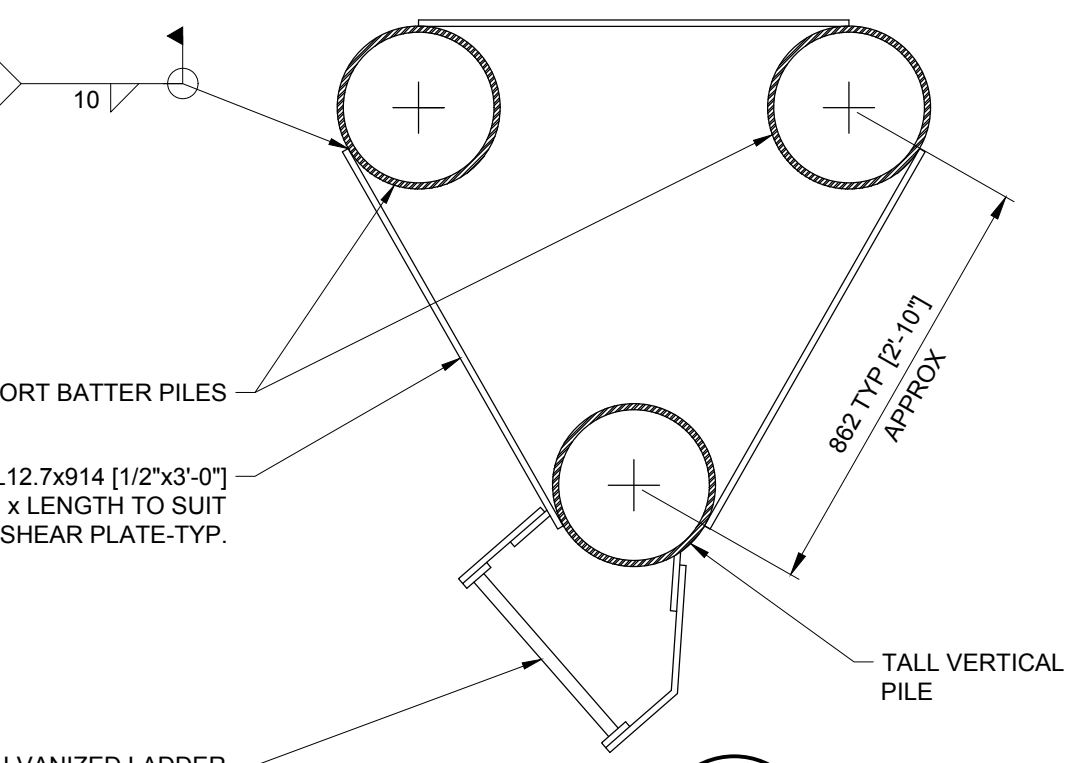
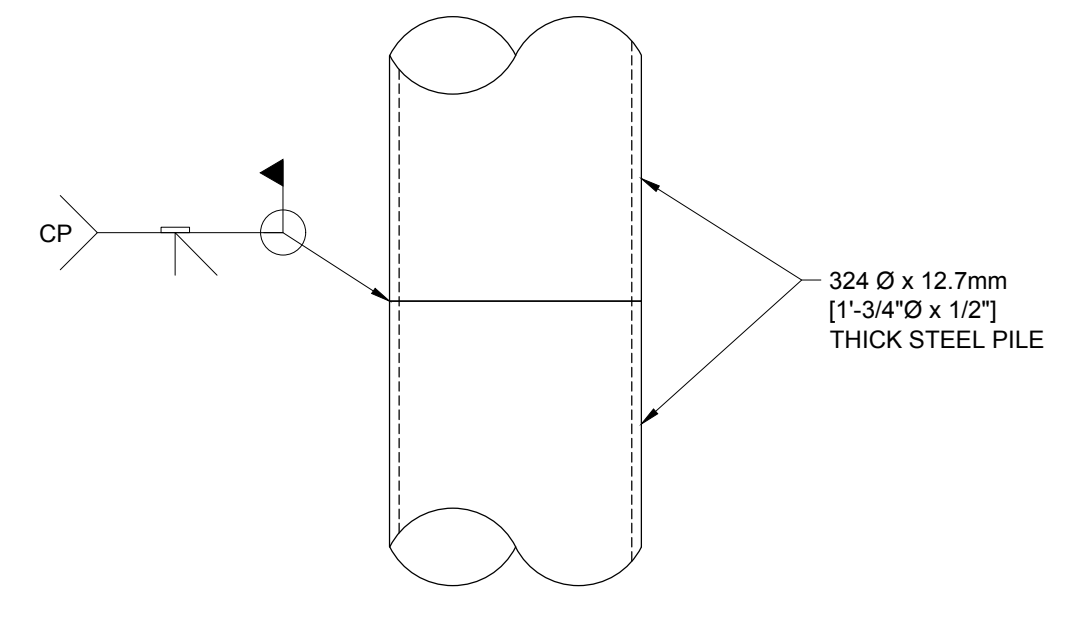
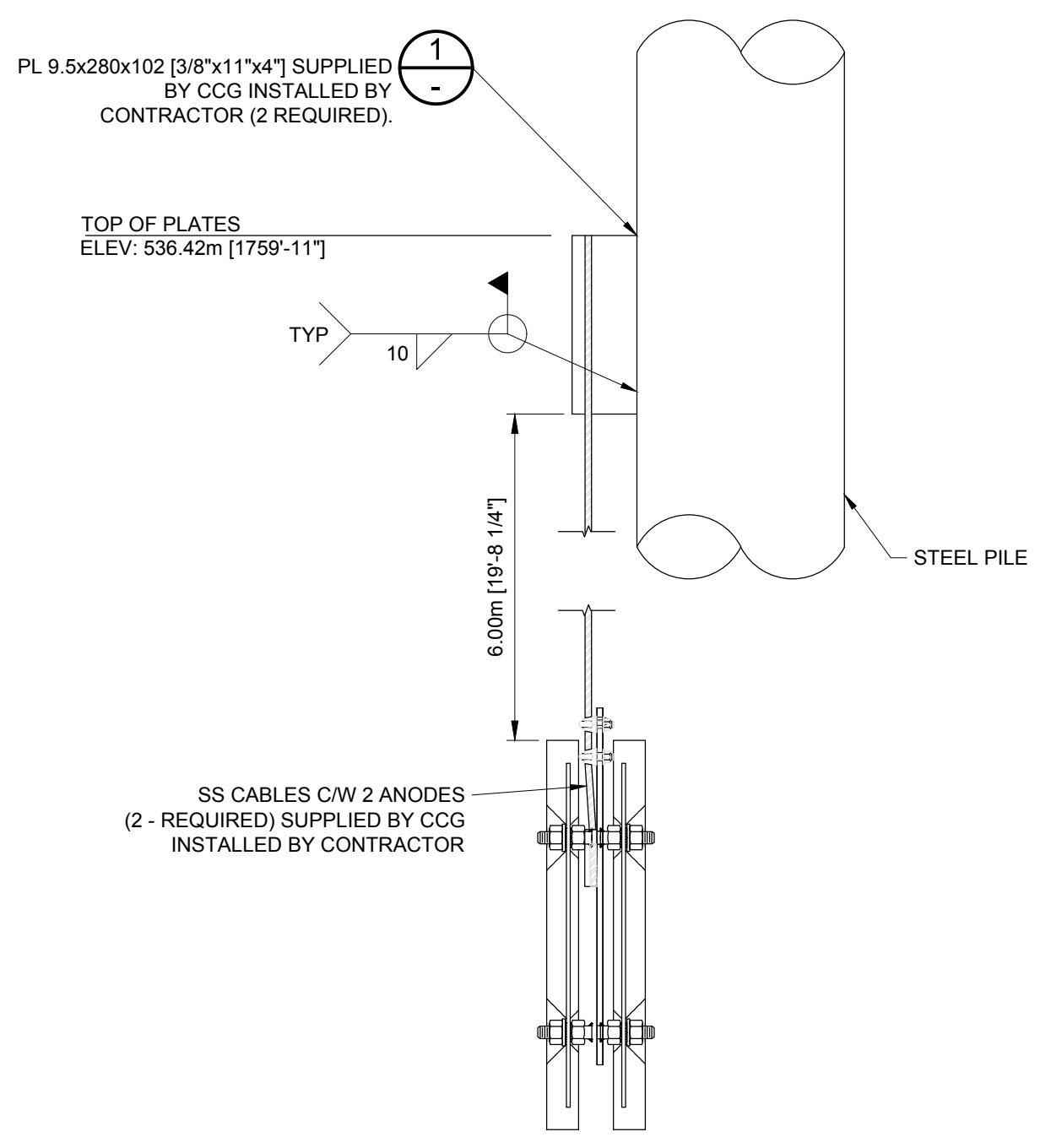
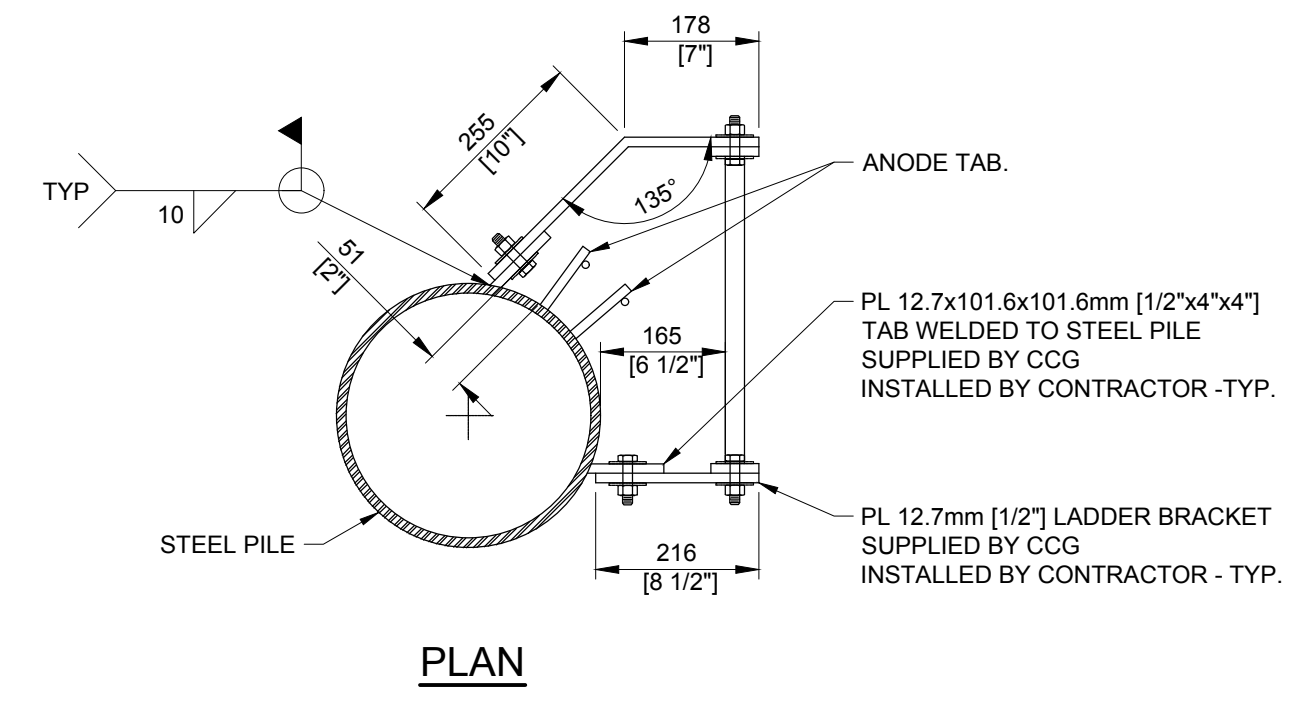
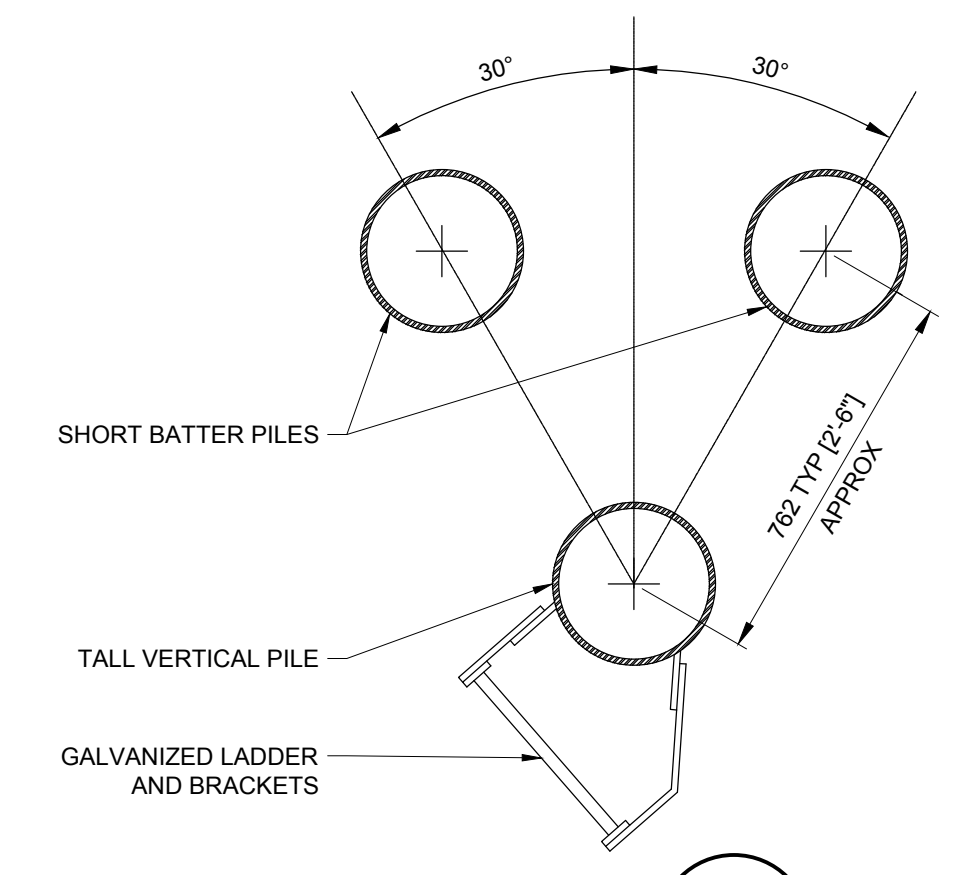
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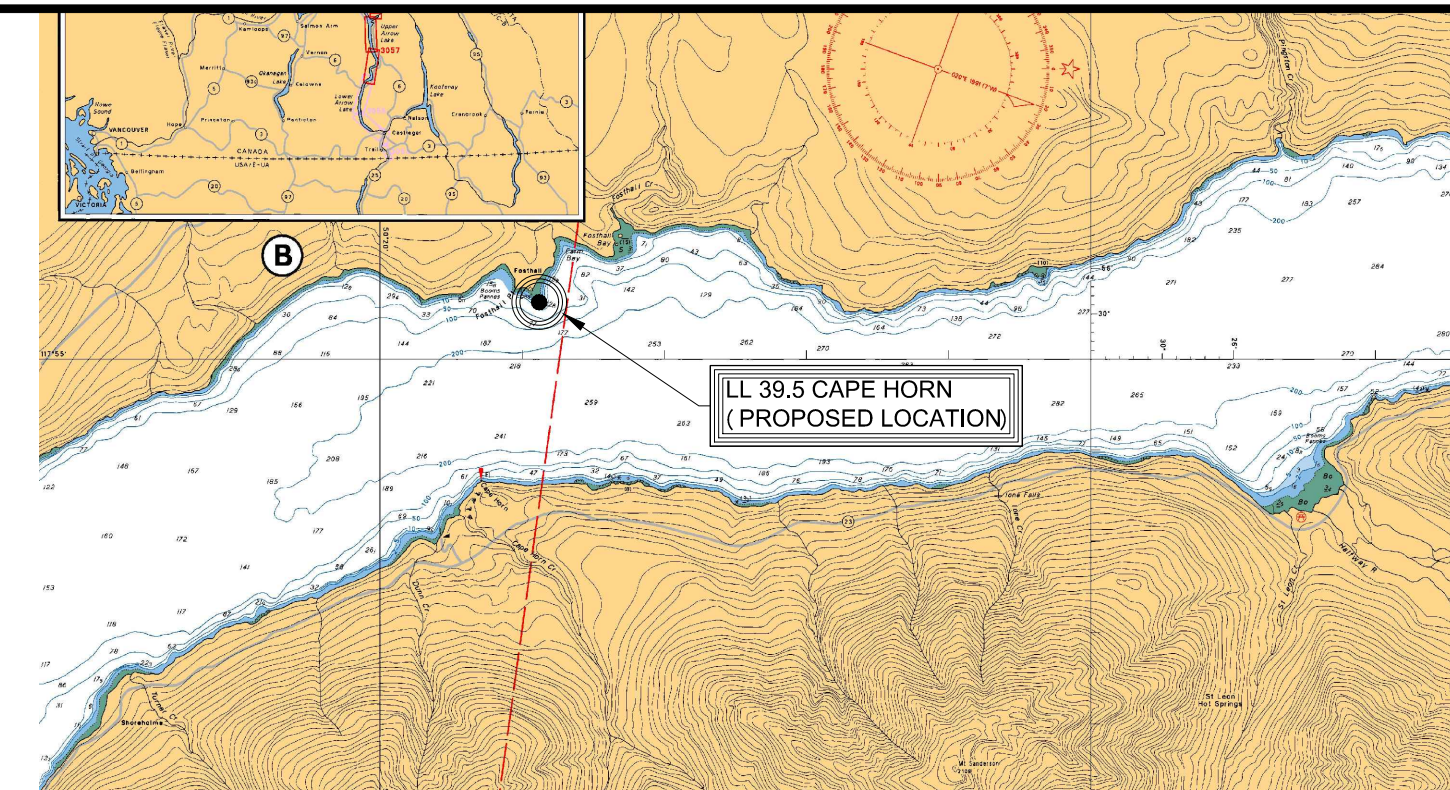
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24011

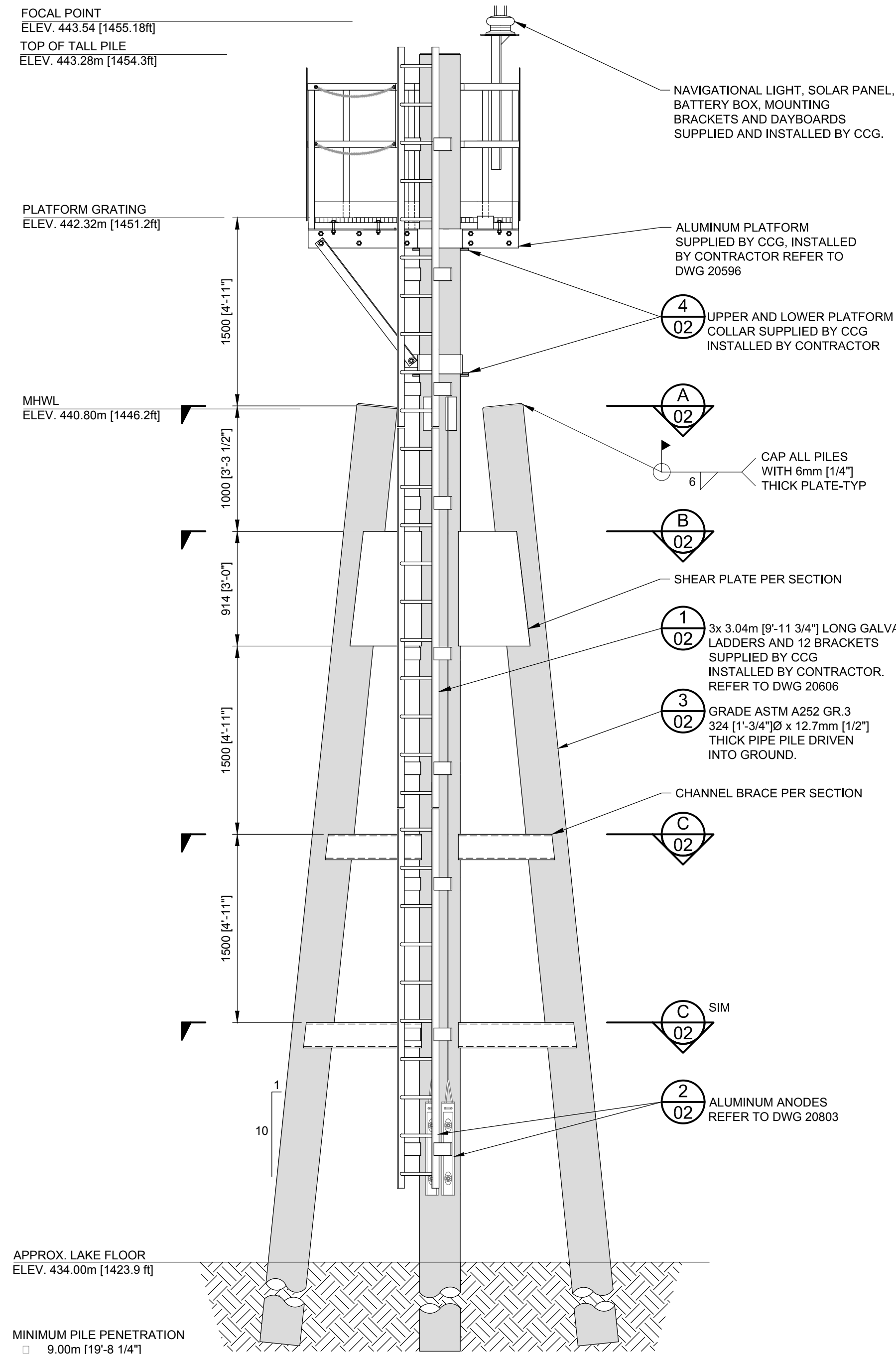


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rev	description	by	date
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LL 19.0 SCHROEDER POINT			
Drawing - Dessin			
3 PILE DOLPHIN AND ALUMINUM PLATFORM			
drawn - dessiné			date
GAR			2017.05.30
designed - conception			date
AW			2017.05.30
checked - vérifié			date
AW			2017.05.30
approved - approuvé			date
AW			2017.05.30
CCG ref. no. - no. réf. GCC			scale - échelle
REF NO / PROJ NO / FILE NO	AS SHOWN		
drawing no. - no. dessin	sheet/feuille	rev-rév	
24011	02/02	B	

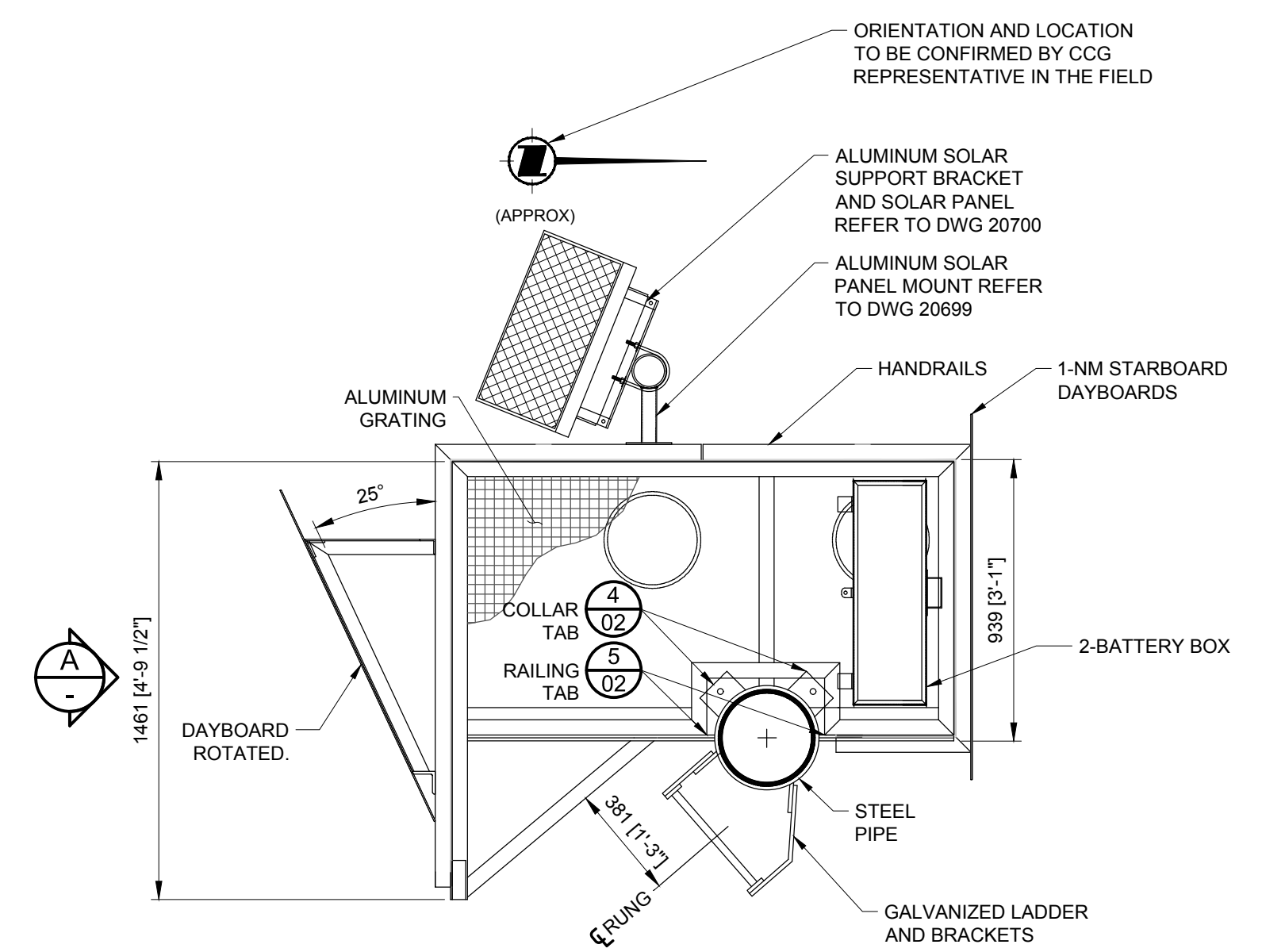


LOCATION CHARTLETT (PART OF 3057) N.T.S.  
LATITUDE: 50° 21' 06.12" N  
LONGITUDE: 117° 55' 38.70" W

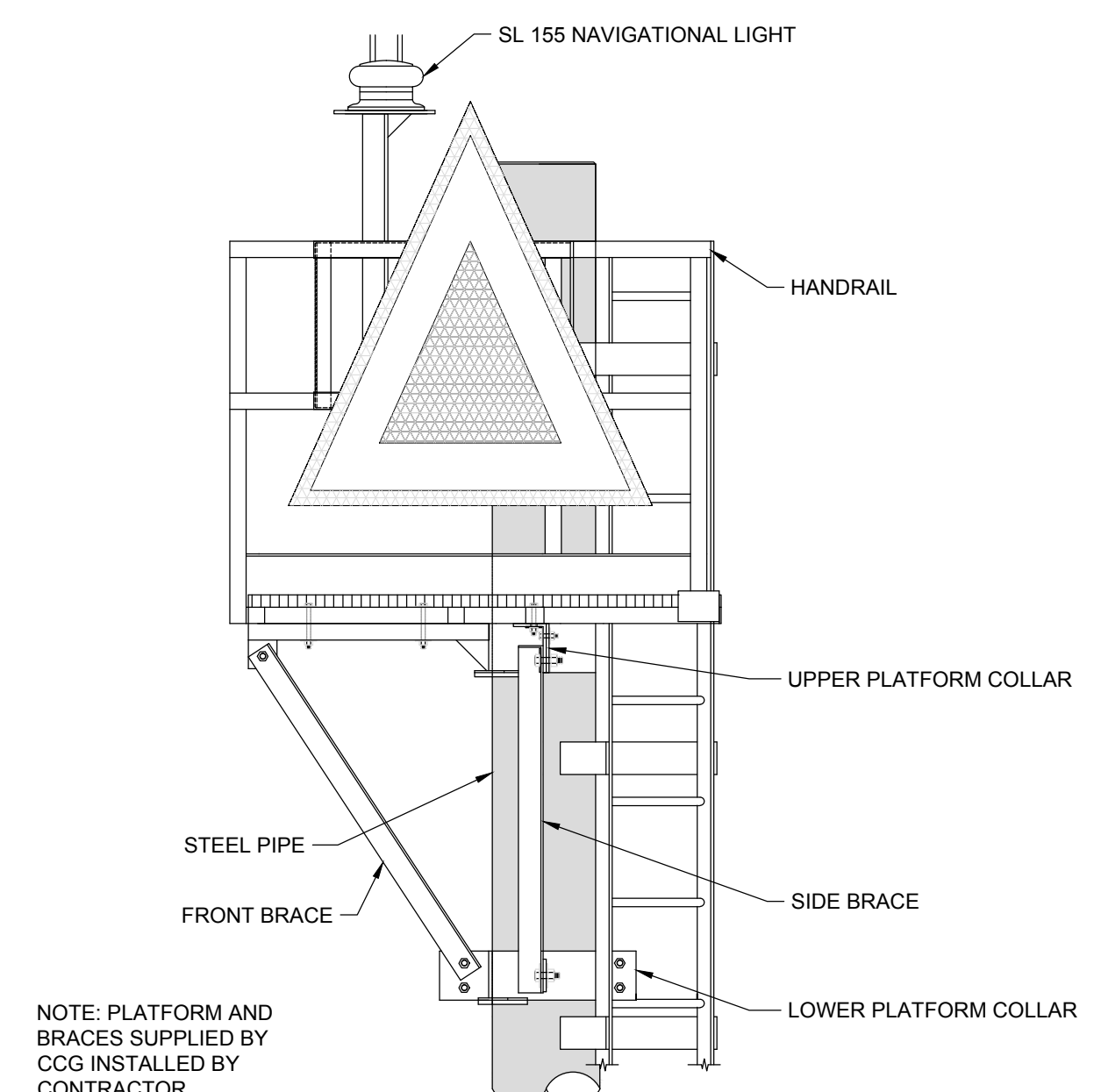
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  - CONTRACTOR TO MEASURE AND VERIFY PILE LENGTHS PRIOR TO ORDERING MATERIALS.
  - CCG SUPPLIED MATERIALS WILL BE DELIVERED BY CCG TO THE CONTRACTOR.
  - ELEVATIONS SHOWN ARE APPROXIMATE.
  - WATER LEVELS AND GROUND ELEVATIONS ARE REFERENCED TO CHART DATUM.



PROPOSED 1 3 STEEL PILE DOLPHIN  
SCALE: 1:30

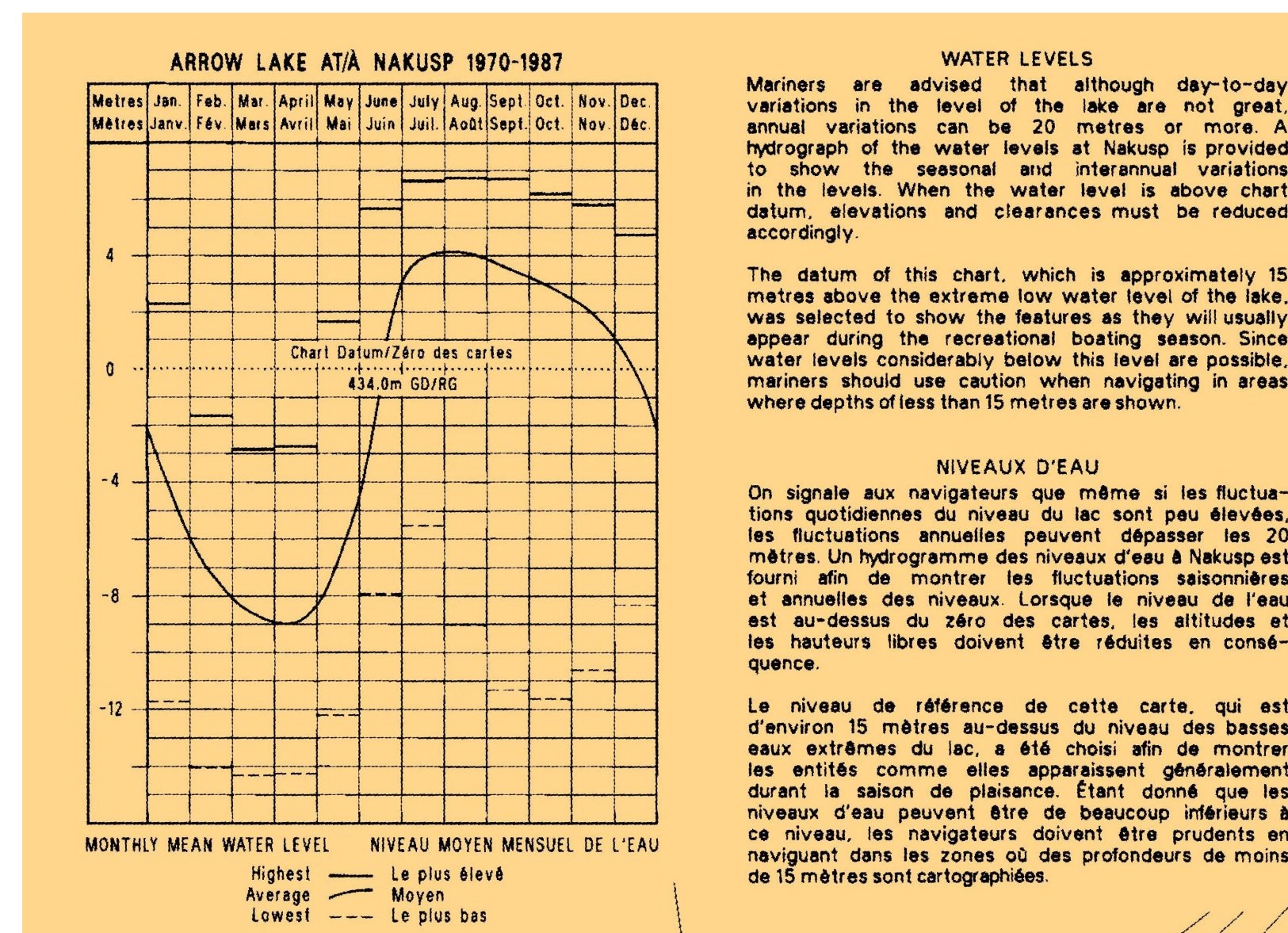


PLAN VIEW  
SCALE: 1:20



ELEVATION A  
SCALE: 1:20

NOTE: PLATFORM AND BRACES SUPPLIED BY CCG INSTALLED BY CONTRACTOR



MONTHLY MEAN WATER LEVELS

**NIVEAUX D'EAU**  
On signale aux navigateurs que même si les fluctuations quotidiennes du niveau du lac sont peu élevées, les fluctuations annuelles peuvent dépasser les 20 mètres. Un hydrogramme des niveaux d'eau à Nakusp est fourni afin de montrer les fluctuations saisonnières et annuelles des niveaux. Lorsque le niveau de l'eau est au-dessus du zéro des cartes, les altitudes et les hauteurs libres doivent être réduites en conséquence.  
Le niveau de référence de cette carte, qui est d'environ 15 mètres au-dessus du niveau des basses eaux extrêmes du lac, a été choisi afin de montrer les entités comme elles apparaissent généralement durant la saison de plaisance. Étant donné que les niveaux d'eau peuvent être de beaucoup inférieurs à ce niveau, les navigateurs doivent être prudents en naviguant dans les zones où des profondeurs de moins de 15 mètres sont cartographiées.

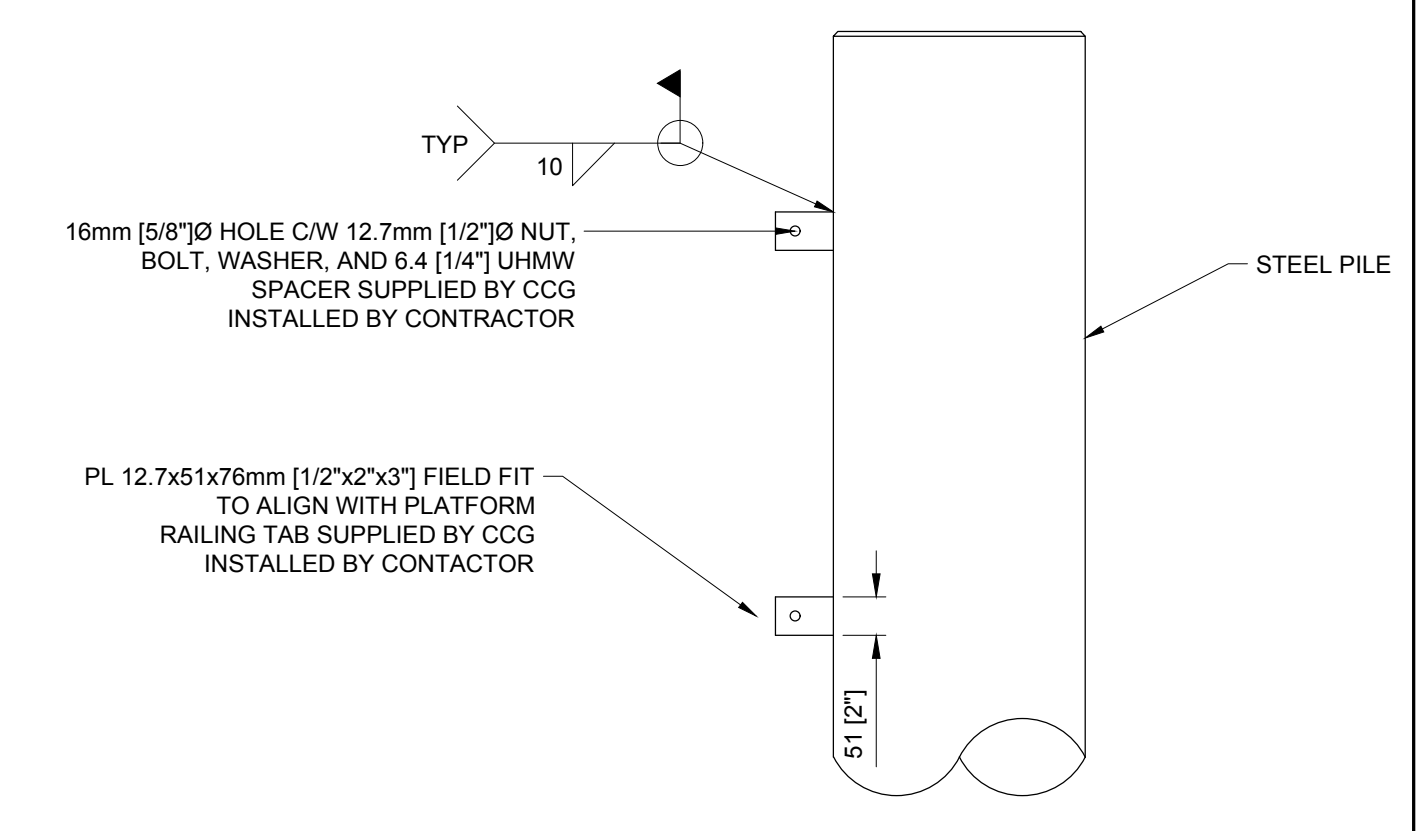
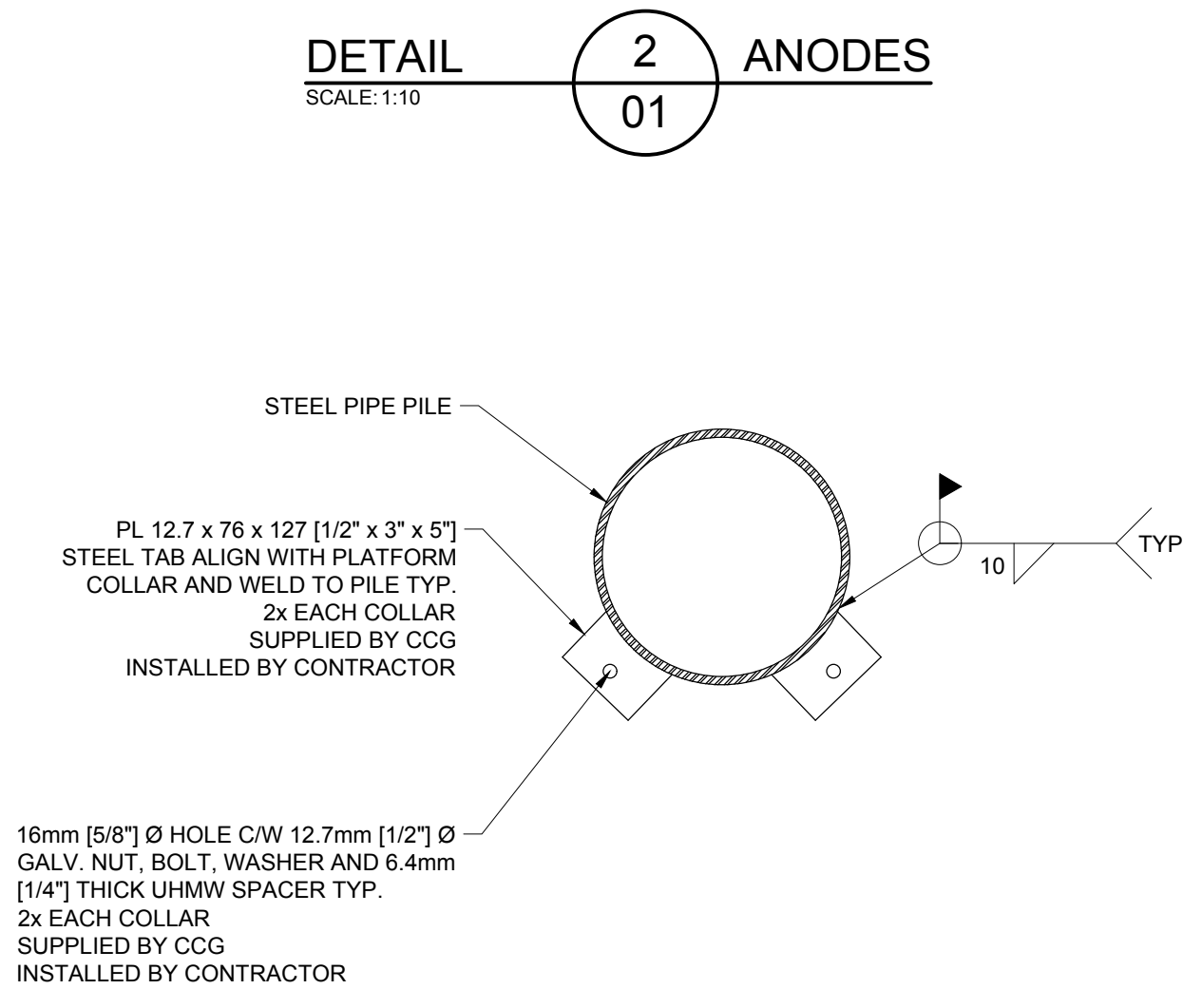
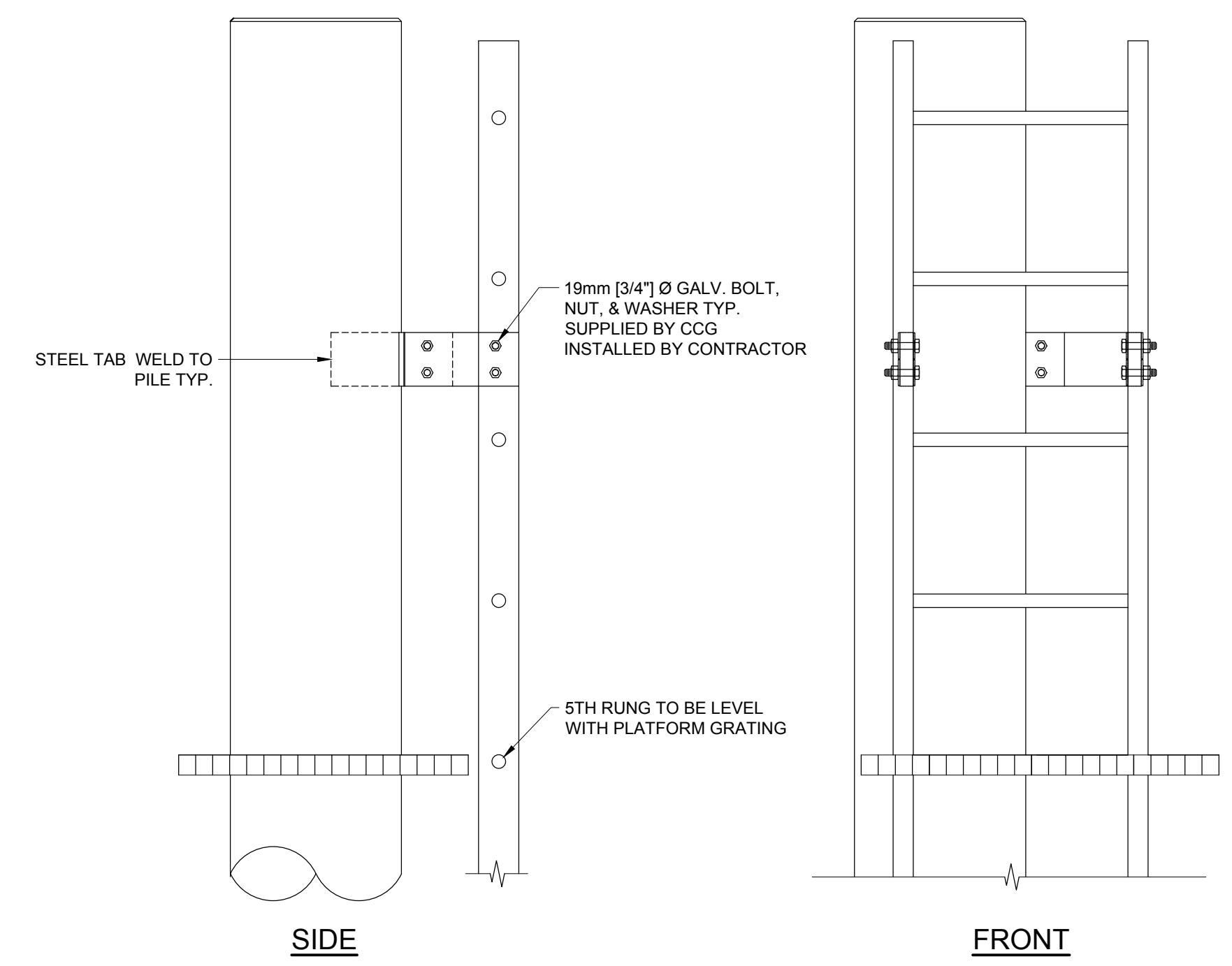
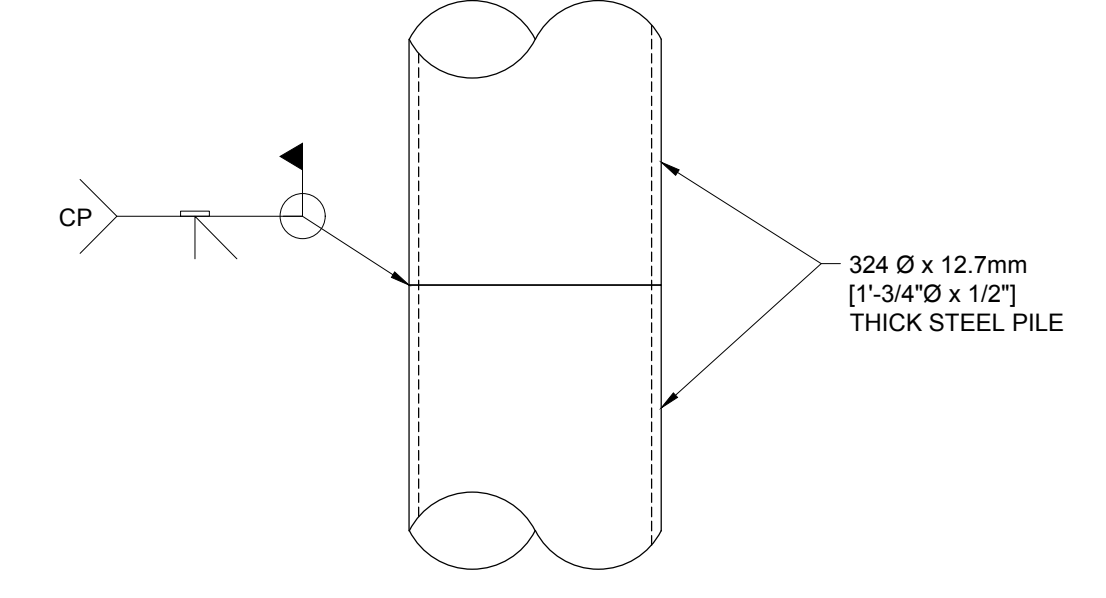
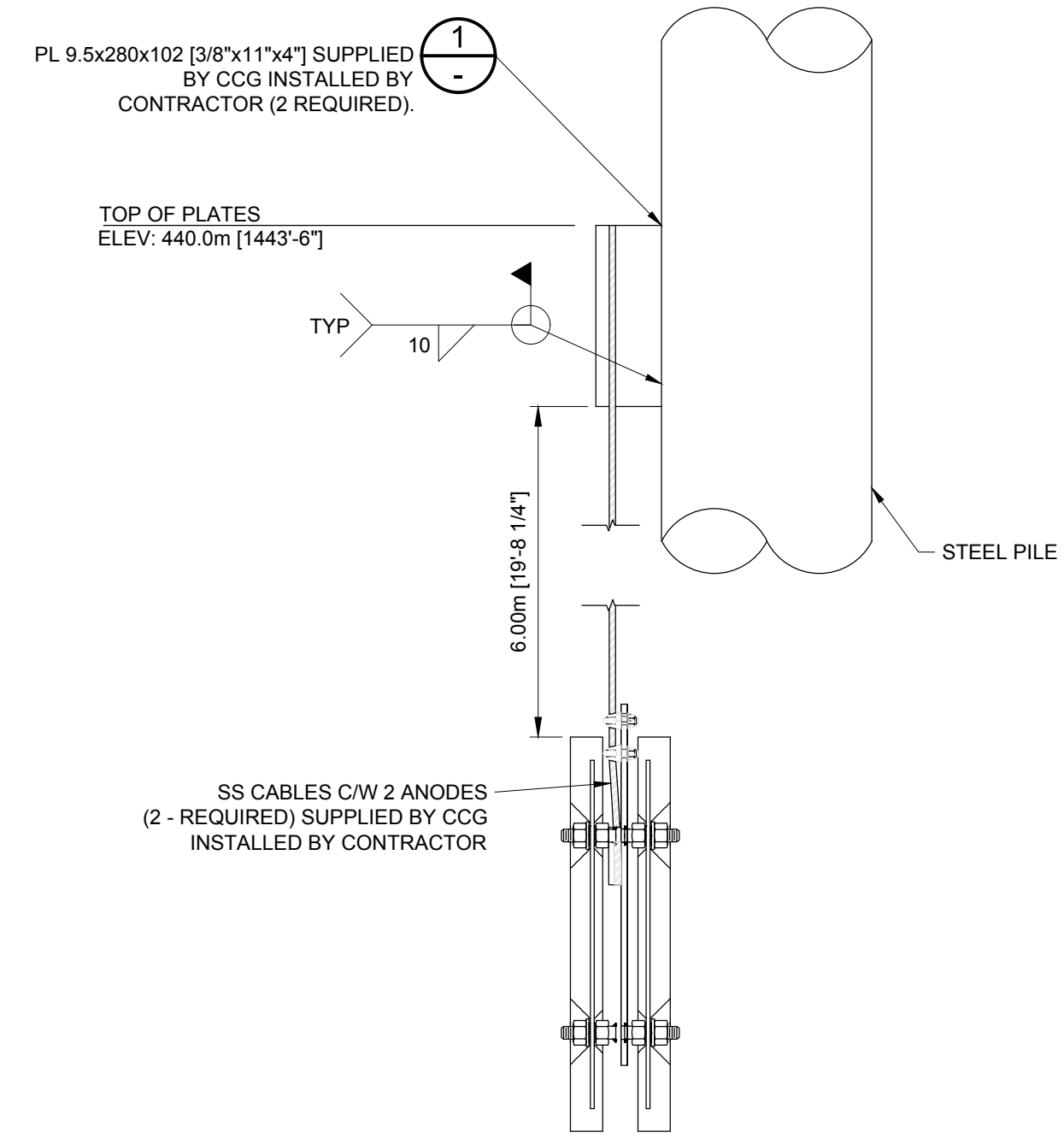
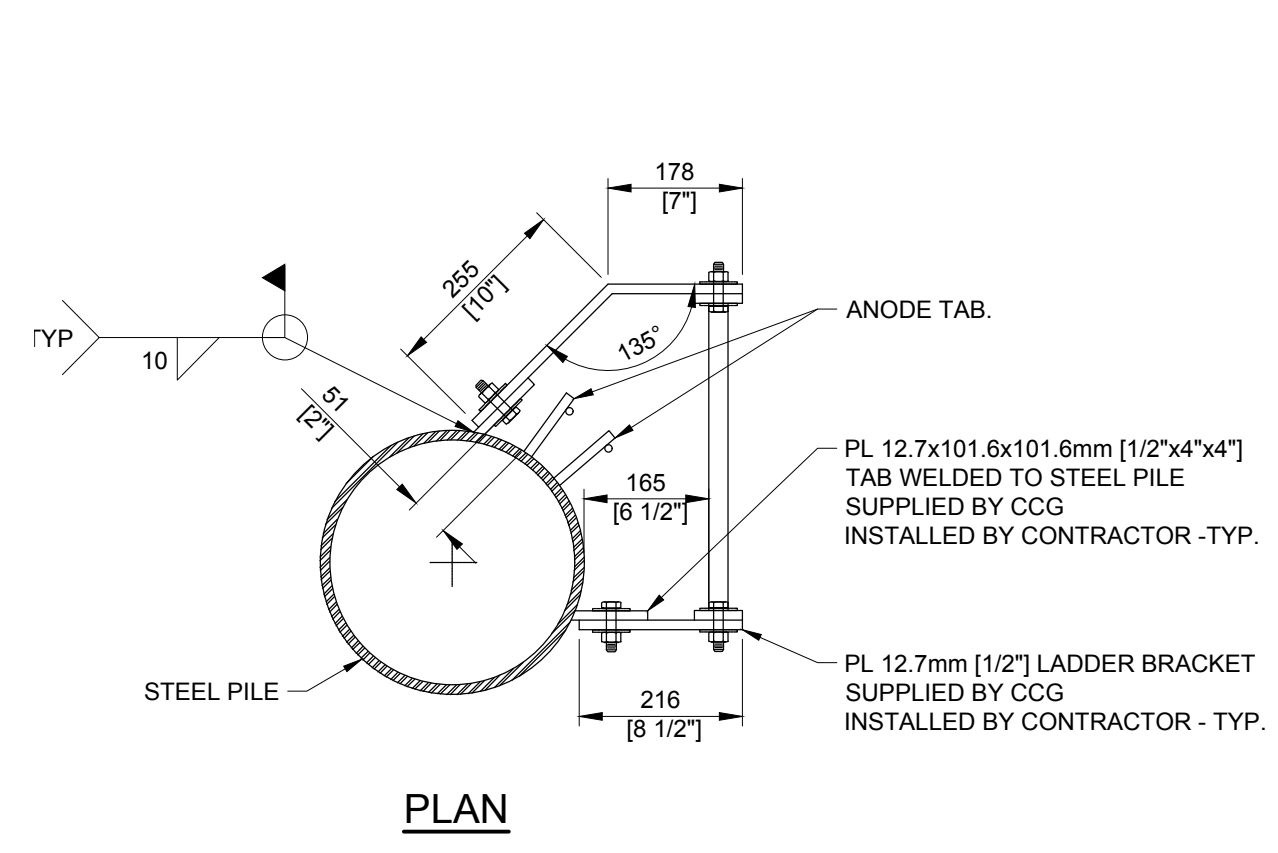
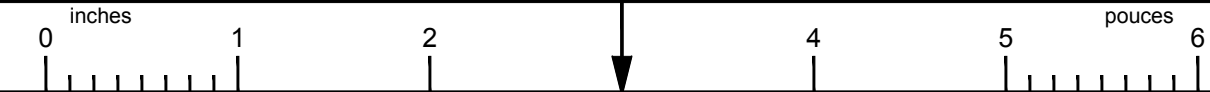
**STRUCTURAL STEEL - CCG**

- SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
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- STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
  - CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
  - HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
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  - STRUCTURAL BOLTS: ASTM-A325
  - ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
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- STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
- BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
- GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
- ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET
- HOT DIP GALVANIZING TO A123M MIN COATING 600g/m<sup>2</sup>.
- ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

**ALUMINUM NOTES**

- FABRICATE ALL ALUMINUM IN CONFORMANCE WITH CAN/S-157-05 AND IN ACCORDANCE WITH DRAWINGS. USE THE MOST CURRENT OF ALL CODE REFERENCES.
- FABRICATOR TO BE CERTIFIED UNDER CSA-W47.2 DIV 2 FOR FUSION WELDING OF ALUMINUM & CSA-W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS.
- WELDING SHALL BE PERFORMED IN ACCORDANCE WITH CSA-W59.2
- BAR, ROD WIRE, TUBES, PLATE & EXTRUDED SHAPES SHALL BE ALLOY GRADE 6061-T6.
- ALL WELDING WIRE SHALL BE ALLOY GRADE 5356.
- ALUMINUM TO BE CLEAR ANODIZED PRIOR TO FAB.
- NO SHARP EDGES. GRIND AND SAND SMOOTH AS REQUIRED.
- NO CUTTING OR HOLES EXCEPT AS SHOWN ON DRAWINGS.
- MECHANICAL CONNECTIONS, STAINLESS STEEL CONFORMING TO AISI 316.
- TWO COATS OF BITUMINOUS PAINT CONFORMING TO ASTM D1187 TYPE 1 SHALL BE USED WHEN ALUMINUM SURFACE IS IN CONTACT WITH CONCRETE.

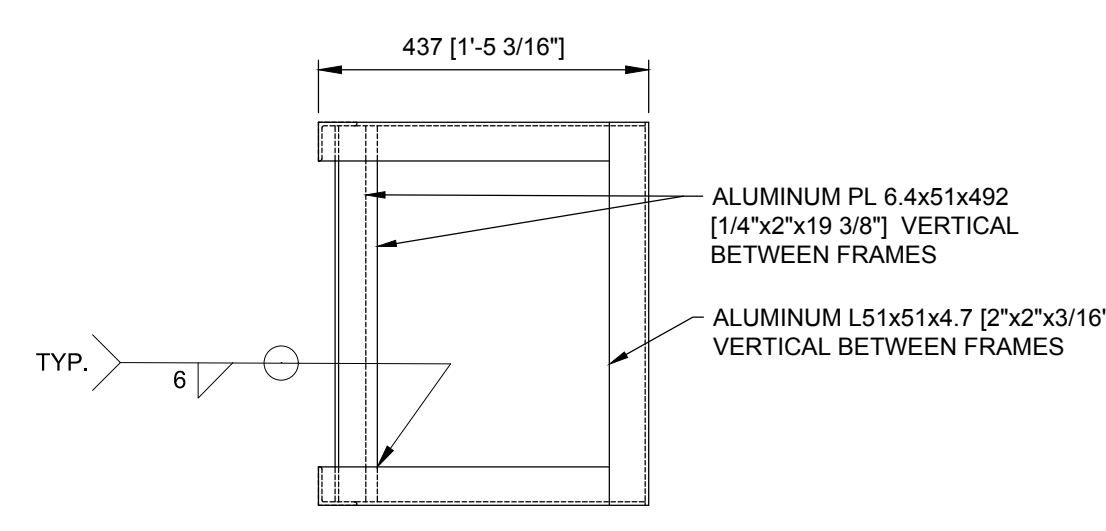
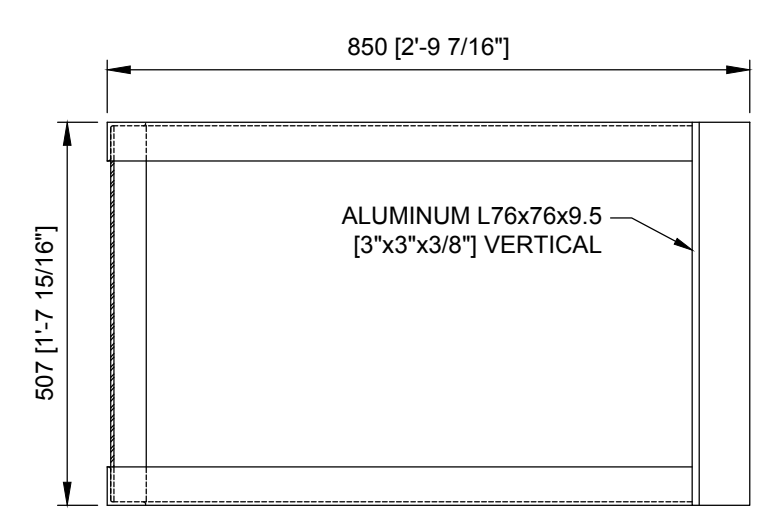
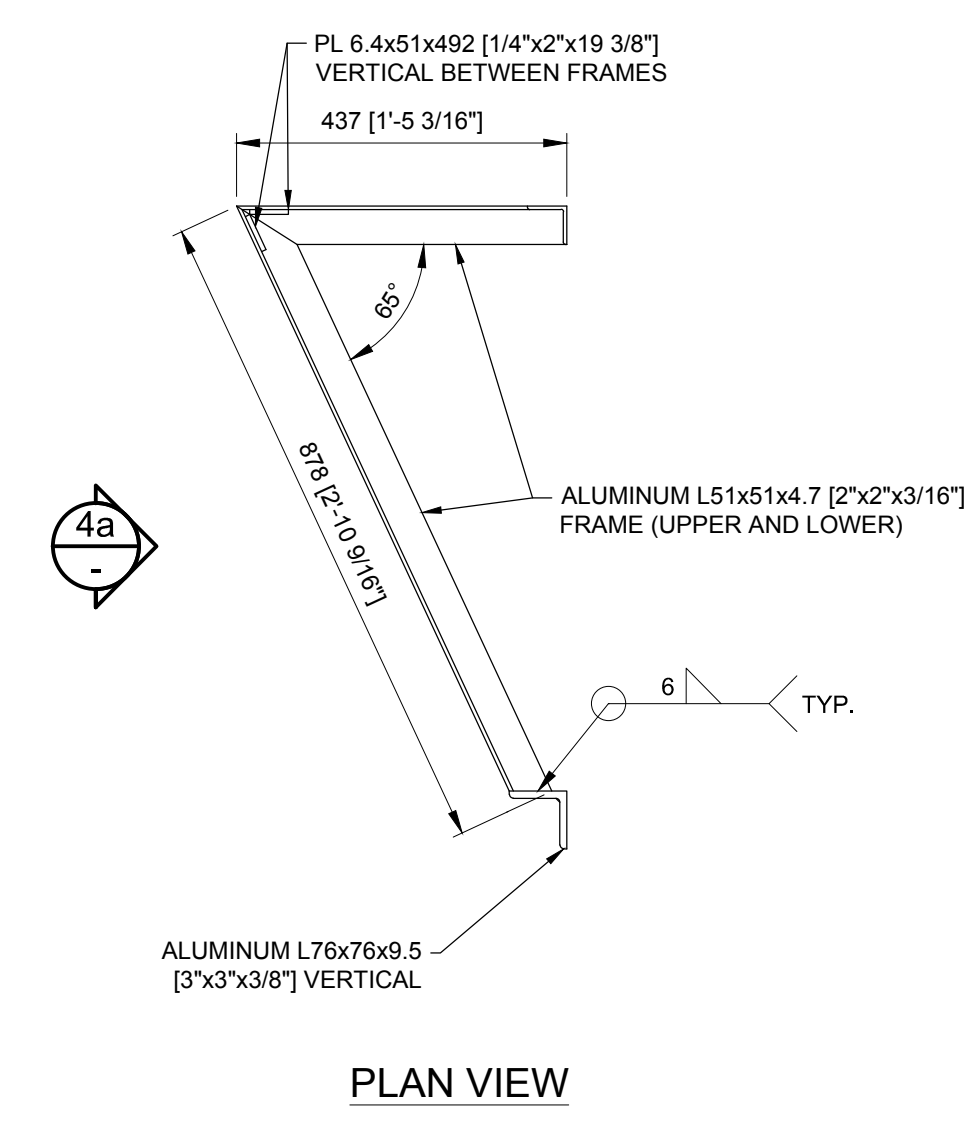
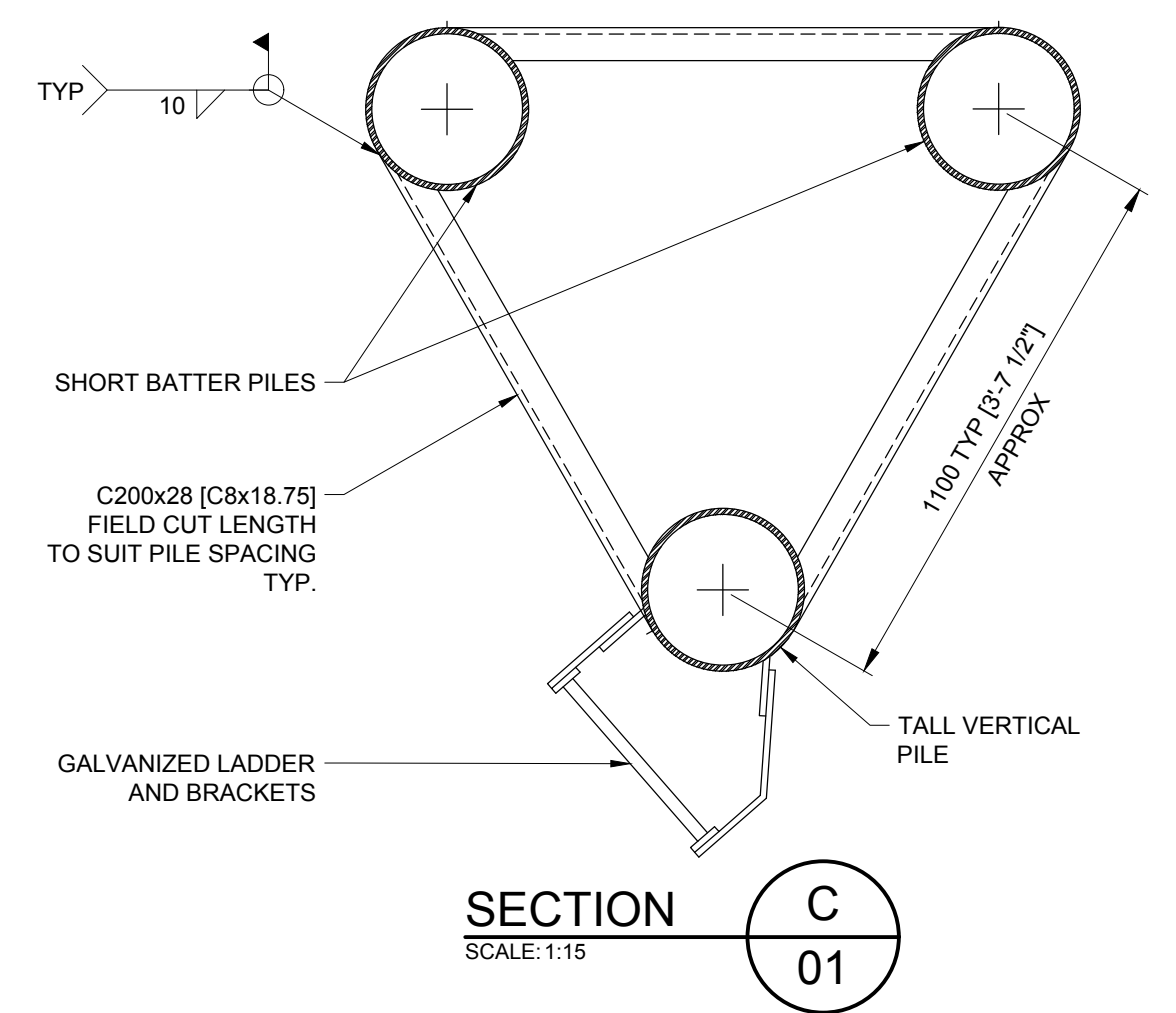
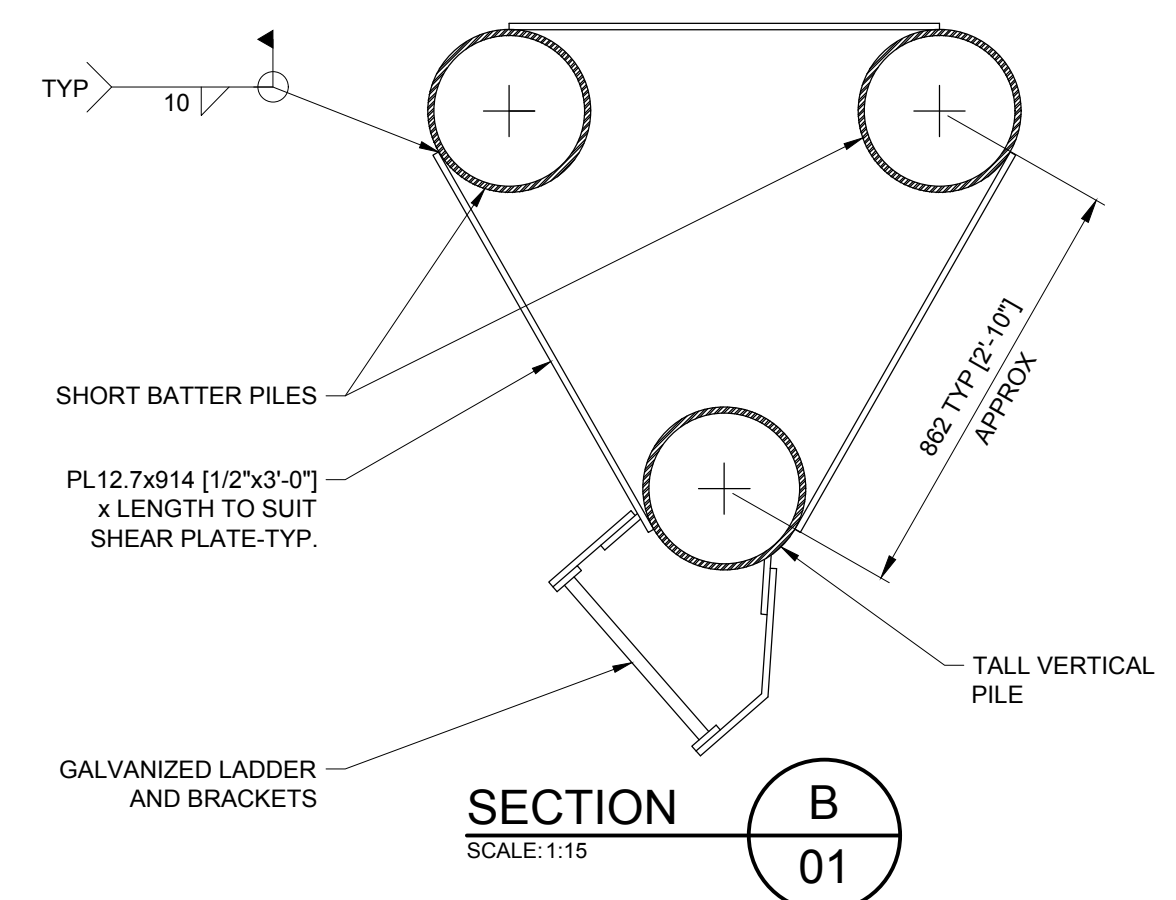
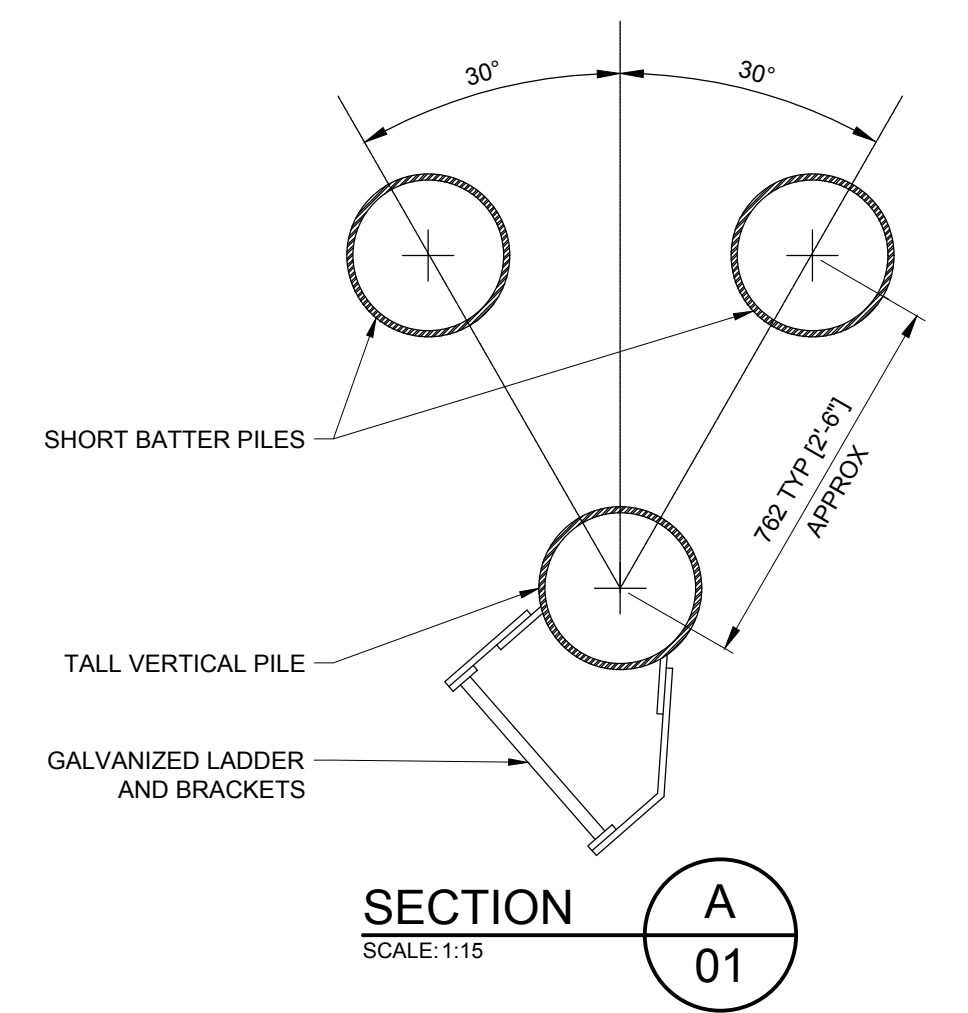
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Asset - Actif			
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Drawing - Dessin			
<b>3 PILE DOLPHIN AND ALUMINUM PLATFORM</b>			
drawn - dessiné	date		
GAR	2017.05.30		
designed - conception	date		
AW	2017.05.30		
checked - vérifié	date		
AW	2017.05.30		
approved - approuvé	date		
AW	2017.05.30		
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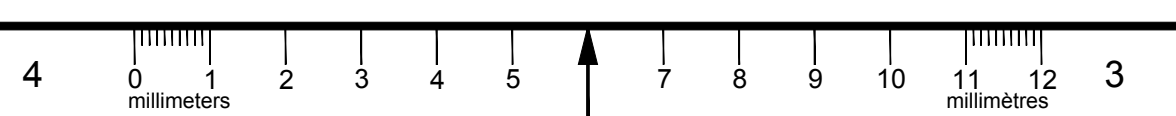
**DETAIL 1 LADDER AND BRACKETS**  
 SCALE: 1:10

**DETAIL 4 COLLAR TABS**  
 SCALE: 1:10

**DETAIL 5 RAILING TAB**  
 SCALE: 1:10



**DETAIL 4 DAYBOARD MOUNTING FRAME**  
 SCALE: 1:20



rev	description	by	date
A	ISSUE FOR TENDER	AW	2017.05.30
Asset - Actif			
<b>LL 39.5 CAPE HORN</b>			
Drawing - Dessin			
<b>3 PILE DOLPHIN AND ALUMINUM PLATFORM</b>			
drawn - dessiné		date	
GAR		2017.05.30	
designed - conception		date	
AW		2017.05.30	
checked - vérifié		date	
AW		2017.05.30	
approved - approuvé		date	
AW		2017.05.30	
CCG ref. no. - no. réf. GCC		scale - échelle	
-		AS SHOWN	
drawing no. - no. dessin		sheet/feuille	rev-rév
24080		02/02	A