

# JACKSON HARBOR CHICAGO, IL

## ISSUED FOR BIDDING



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CHICAGO PARK DISTRICT  
JACKSON HARBOR  
CHICAGO, IL

JACKSON HARBOR  
COVER SHEET

Issued

Rev Date Description

0 6-26-20  
ISSUED FOR BIDDING

Designed: JEA 6/10/20  
Drawn: LK 6/10/20  
Checked: TMR 6/10/20  
Approved: WHW 6/10/20

PROJECT NUMBER  
60283337

SHEET REFERENCE NUMBER

G-01

SHEET 1 OF 11



PLAN NOTES

1. ALL ELEVATIONS ARE IN FEET AND ARE REFERENCED TO LOW WATER DATUM (LWD) FOR LAKE MICHIGAN.
2. HYDROGRAPHIC SOUNDING DEPTHS ARE ESTIMATED FROM AECOM BATHYMETERIC SURVEY (APRIL 16, 2020).
3. ACTUAL WATER ELEVATION WILL VARY.
4. EXISTING STONE SIZES ARE BASED ON APPROXIMATE MEASUREMENTS AND WERE NOT FIELD VERIFIED THROUGH GROUND-TRUTHING SUCH AS DIVING INSPECTIONS OR VIDEO IMAGING.
5. THE EXTENT OF SUBMERGED STONES SHOWN ON THIS DRAWING IS APPROXIMATE AND THE ACTUAL EXTENT MAY VARY.
6. EXISTING LAKEBED MATERIAL CONDITION IS BASED ON THE SOIL BORINGS OBTAINED ON 1-29-20 AND PROVIDED ON SHEET C-01. SEDIMENT SAMPLING OBTAINED ON 11-07-13 AND PROVIDED ON SHEET C-01 AND WAS NOT VERIFIED WITH DIVING INSPECTIONS OR VIDEO IMAGING.
7. THE EXISTING TOPOGRAPHY HEREIN IS FOR INFORMATIONAL PURPOSES ONLY. THE OWNER/ARCHITECT/ENGINEER IS NOT RESPONSIBLE FOR ANY MISCHARTED OR UNCHARTED UTILITIES, OR OTHER ERRORS DETECTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SITE CONDITIONS.
8. THE LAKE BED ELEVATIONS PRESENTED ON THESE PLANS REPRESENTS THE RESULTS OF A HYDROGRAPHIC SURVEY PERFORMED BY AECOM DURING APRIL, 2020. THE TOPOGRAPHIC COMPIATION OF THE LANDSIDE AREA ADJACENT TO THE SHORELINE IS FROM AECOM AND COOK COUNTY GIS DATA AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THE TIME.
9. EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. ACTUAL FIELD CONDITIONS MAY VARY. REFER TO REFERENCE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING EXISTING CONDITIONS.
10. THE CONTRACTOR SHALL FOLLOW ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS. PERMITS SHALL BE OBTAINED FROM THE CITY OF CHICAGO, THE CHICAGO PARK DISTRICT AND OTHER AGENCIES AS REQUIRED PRIOR TO COMMENCING WITH CONSTRUCTION.
11. BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS, LOCATIONS, AND ELEVATIONS BEFORE PROCEEDING WITH PROPOSED WORK. IF ANY ITEMS ARE ENCOUNTERED IN THE FIELD THAT ARE NOT ON THE PLAN WHICH REQUIRE DEMOLITION OR RELOCATION, THE CONTRACTOR SHALL NOTIFY THE OWNER REPRESENTATIVE IMMEDIATELY.
12. BEFORE START OF CONSTRUCTION, THE CONTRACTOR SHALL CONSULT WITH ALL UTILITY SYSTEM OWNERS AND OBTAIN A HARBOR PERMIT FROM THE CITY OF CHICAGO.
13. THE CONTRACTOR SHALL PROVIDE FOR THE SAFE AND ORDERLY PASSAGE OF BOATS, TRAFFIC AND PEDESTRIANS AROUND THE WORK SITE. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SIGNAGE AS REQUIRED BY THE OWNER.
14. ALL CONSTRUCTION REGULATORY, WARNING, AND GUIDE SIGNS REQUIRED FOR THE PROPOSED WORK SHALL BE RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE COMMISSION REPRESENTATIVE.
15. CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING STRUCTURES SUCH AS CONCRETE PROMENADE AND SSP REVETMENT. ANY LOSS OF THE EXISTING STRUCTURE FROM UNDERMINING CAUSED BY DISPLACEMENT OF STONES OR OTHER WORK SHALL BE REPLACED BY THE CONTRACTOR TO THE LINES AND GRADE REQUIRED FOR THE FINAL STRUCTURE, WITHOUT COST.
16. LAKE MICHIGAN WATER LEVELS VARY. INDICATIONS OF WATER LEVELS SHOWN ON THE DRAWINGS ARE NOT REPRESENTATIVE OF ACTUAL WATER LEVELS THAT MAY BE ENCOUNTERED DURING PERFORMANCE OF WORK BY THE CONTRACTOR. THE AVERAGE HISTORIC WATER LEVEL VARIES FROM APPROXIMATELY ELEVATION +1.0 TO ELEVATION +2.1 DURING AN AVERAGE YEAR. WATER LEVELS DURING CONSTRUCTION MAY BE SIGNIFICANTLY HIGHER OR LOWER THAN THE AVERAGE HISTORIC LEVELS. AVERAGE STILL WATER LAKE LEVELS FOR THE PREVIOUS MONTH AND FORECASTS CAN BE OBTAINED FROM THE 'MONTHLY BULLETIN OF LAKE LEVELS FOR THE GREAT LAKES' PUBLISHED BY THE DETROIT DISTRICT CORPS OF ENGINEERS. CURRENT LAKE LEVELS ARE NEAR A RECORD HIGH.
17. NAVIGATION LIGHTING SHALL BE MAINTAINED OPERABLE AT ALL TIMES. IF NEEDED, CONTRACTOR SHALL FURNISH TEMPORARY LIGHTING MEETING ALL U.S. COAST GUARD STANDARDS AND SPECIFICATIONS.
18. THE HORIZONTAL COORDINATES ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983. ELEVATIONS ARE LOW WATER DATUM 1985 (LWD) UNLESS OTHERWISE NOTED.

SECTION NOTES

1. ALL ELEVATIONS ARE IN FEET AND ARE REFERENCED TO LOW WATER DATUM (LWD) FOR LAKE MICHIGAN.
2. HYDROGRAPHIC SOUNDING DEPTHS ARE ESTIMATED FROM LAKE MICHIGAN CHARTS AND SUPPLEMENTED BY AECOM BATHYMETERIC SURVEY (2020).
3. ACTUAL WATER ELEVATION WILL VARY.
4. ARMOR STONE THICKNESS DIMENSIONS SHOWN ON THE DRAWING REFLECT THE ASSUMPTION OF A STONE UNIT WEIGHT THAT IS 168 LB/CF OR LESS.
5. EXISTING STONE SIZES WERE NOT FIELD VERIFIED THROUGH GROUND-TRUTHING SUCH AS DIVING INSPECTIONS OR VIDEO IMAGING.
6. THE EXTENT OF SUBMERGED STONES SHOWN ON THIS DRAWING IS APPROXIMATE AND THE ACTUAL EXTENT MAY VARY.
7. THE EXISTING TOPOGRAPHY HEREIN IS FOR INFORMATIONAL PURPOSES ONLY. THE OWNER/ARCHITECT/ENGINEER IS NOT RESPONSIBLE FOR ANY MISCHARTED OR UNCHARTED UTILITIES, OR OTHER ERRORS DETECTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SITE CONDITIONS.
8. THE INFORMATION PRESENTED ON THIS MAP REPRESENTS THE RESULTS OF A HYDROGRAPHIC SURVEY PERFORMED BY AECOM DURING APRIL, 2020. A TOPOGRAPHIC COMPIATION OF THE LANDSIDE AREA ADJACENT TO THE SHORELINE BY AECOM AND COOK COUNTY GIS DATA AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THE TIME.
9. EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. ACTUAL FIELD CONDITIONS MAY VARY. REFER TO REFERENCE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING EXISTING CONDITIONS.
10. THE STATIONING ON THIS DRAWING REFERS TO THE REVETMENT BASELINE SHOWN ON DRAWING C-02 "PROPOSED BREAKWATER PLAN".

STRUCTURAL NOTES

1. THE PROPOSED SSP SERVES AS HYDRAULIC BARRIER AND NOT A STRUCTURAL ELEMENT. CONTRACTOR SHALL BRACE SSP AS REQUIRED TO PLACE CRUSHED STONE FILL, CORE STONE, AND ARMOR STONE.



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CHICAGO, IL

JACKSON HARBOR  
GENERAL NOTES

Issued

Rev	Date	Description

0 6-26-20  
ISSUED FOR BIDDING

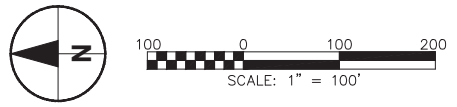
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PROJECT NUMBER  
60283337

SHEET REFERENCE NUMBER

G-02

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- LEGEND**
- 5- EXISTING CONTOUR (LAKE BED LOW WATER DATUM)
  - 1- EXISTING CONTOUR (UPLAND CHICAGO CITY DATUM)
  - 585 SAND BORING LOCATION
  - 584 VIBRACORE BORING LOCATION

- NOTES:**
1. SEE PROJECT MANUAL, APPENDIX A, FOR SAND BORING DATA
  2. SEE PROJECT MANUAL, APPENDIX B, FOR VIBRACORE BORING DATA



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JACKSON HARBOR  
OVERALL PLAN

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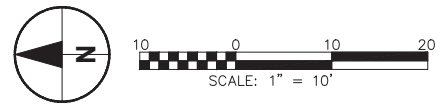
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PROJECT NUMBER  
**60283337**  
SHEET REFERENCE NUMBER

**C-01**  
SHEET 3 OF 11

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 Project Management Initials:    Designer:    Checked:    Approved:    ARCH D 24" x 36"



**BREAKWATER PIER LOCATION COORDINATES**

Point #	Northing	Easting
1	1863285.34	1191775.96
2	1863278.17	1191798.86
3	1863097.52	1191742.39

- LEGEND**
- 5-    EXISTING CONTOUR (LAKE BED LOW WATER DATUM)
  - 1-    EXISTING CONTOUR (UPLAND CHICAGO CITY DATUM)
  - 585    EXISTING CONTOUR (UPLAND CHICAGO CITY DATUM)
  - 584    EXISTING CONTOUR (UPLAND CHICAGO CITY DATUM)
  - x 6    PIER COORDINATE
  - SLOPE LINE
  - PROPOSED STONE
  - CROSS SECTION DESIGNATOR



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JACKSON HARBOR  
 BREAKWATER SITE PLAN

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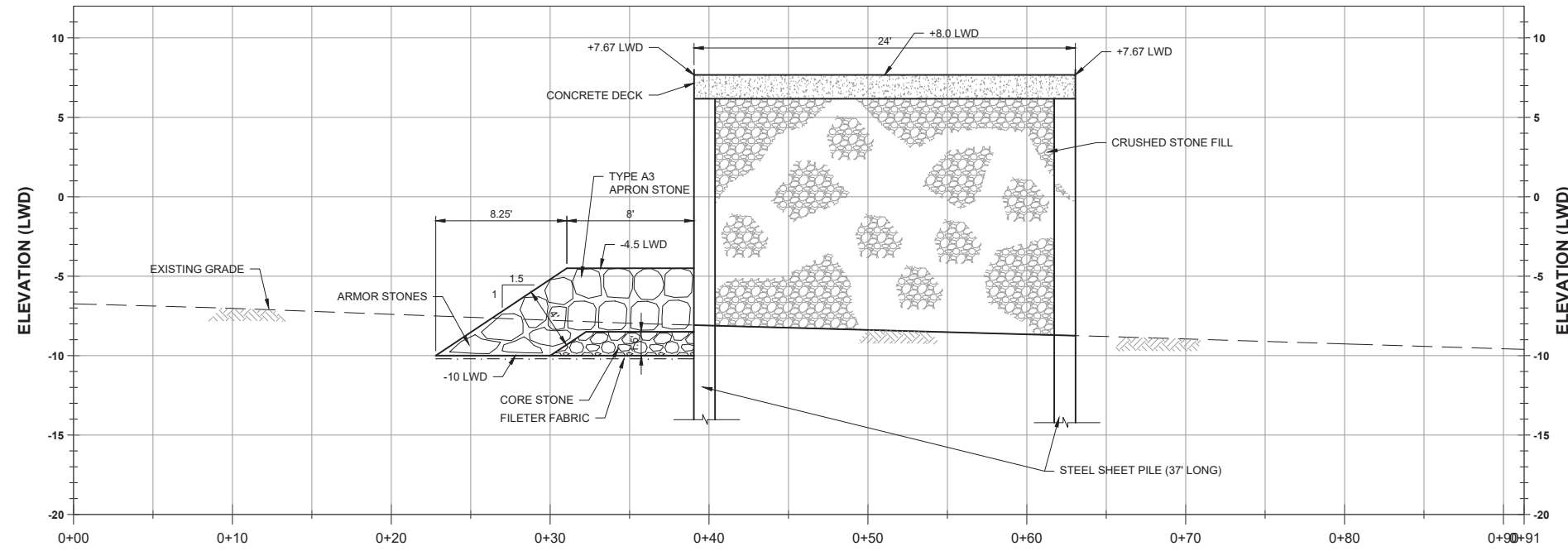
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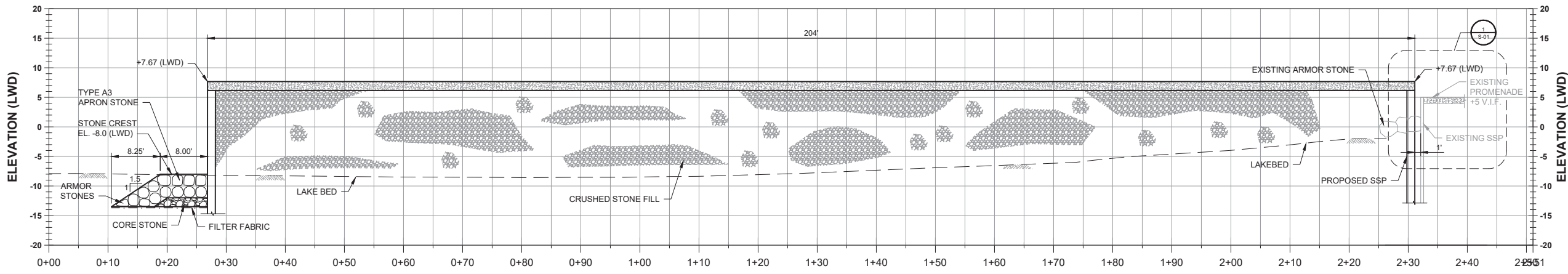
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 SHEET 4 OF 11

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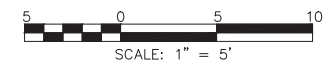
NOTE:  
 THE STONE APRON TOE IS RECESSED BELOW  
 GRADE TO ELEVATION -10 LWD AT ALL LOCATIONS

**A TYPICAL SECTION**  
 C-03 Scale 1" = 5' APPLIES FROM STATION 0+27 TO STATION 1+57



NOTE:  
 THE STONE APRON TOE IS RECESSED BELOW GRADE  
 TO ELEVATION -13.0 LWD AT ALL LOCATIONS

**B SECTION**  
 C-03 Scale 1" = 10'



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 CHICAGO, IL

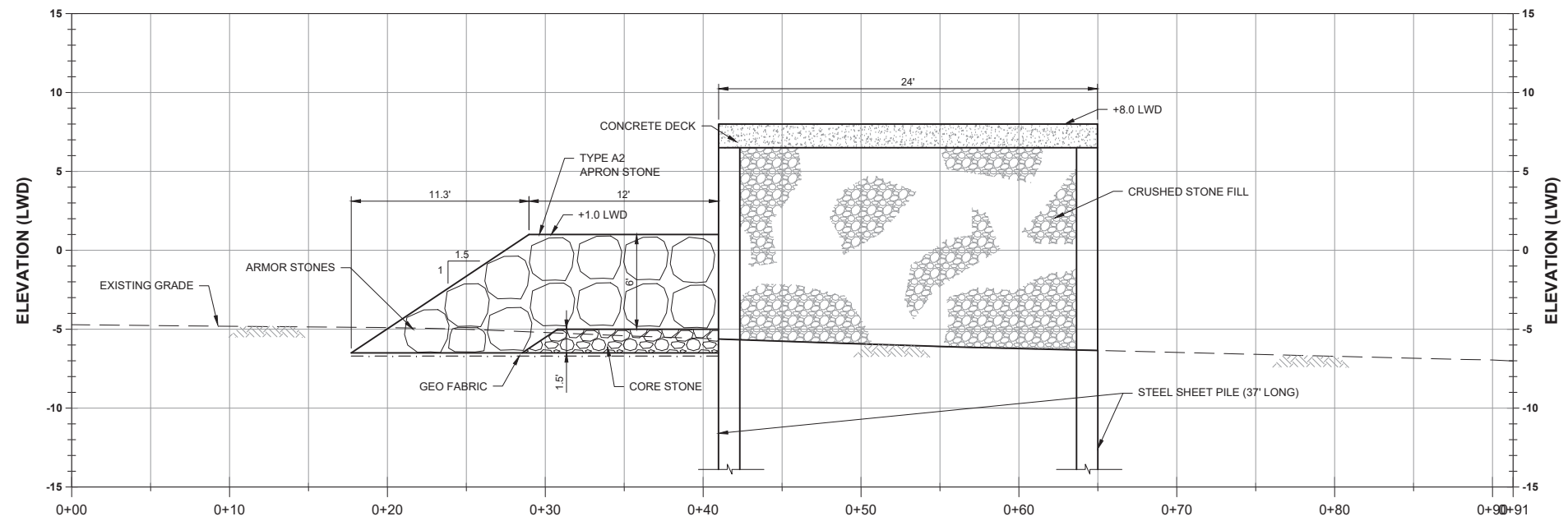
JACKSON HARBOR  
 PROPOSED SECTIONS

Rev	Date	Description
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2	6/10/20	DRAWN
3	6/10/20	CHECKED
4	6/10/20	APPROVED

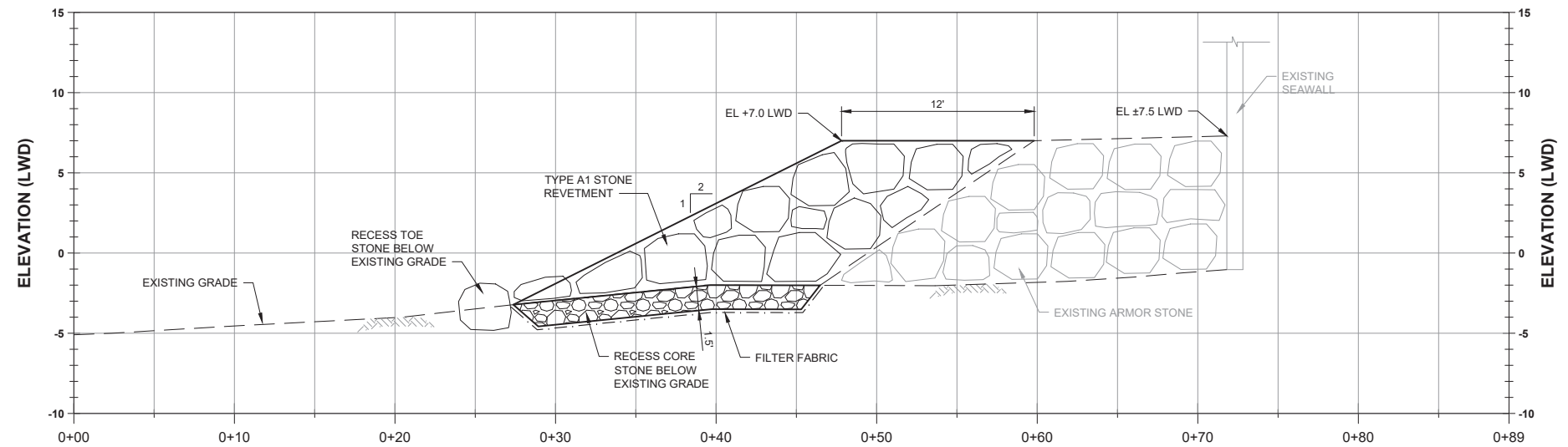
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**C-03**  
 SHEET 5 OF 11

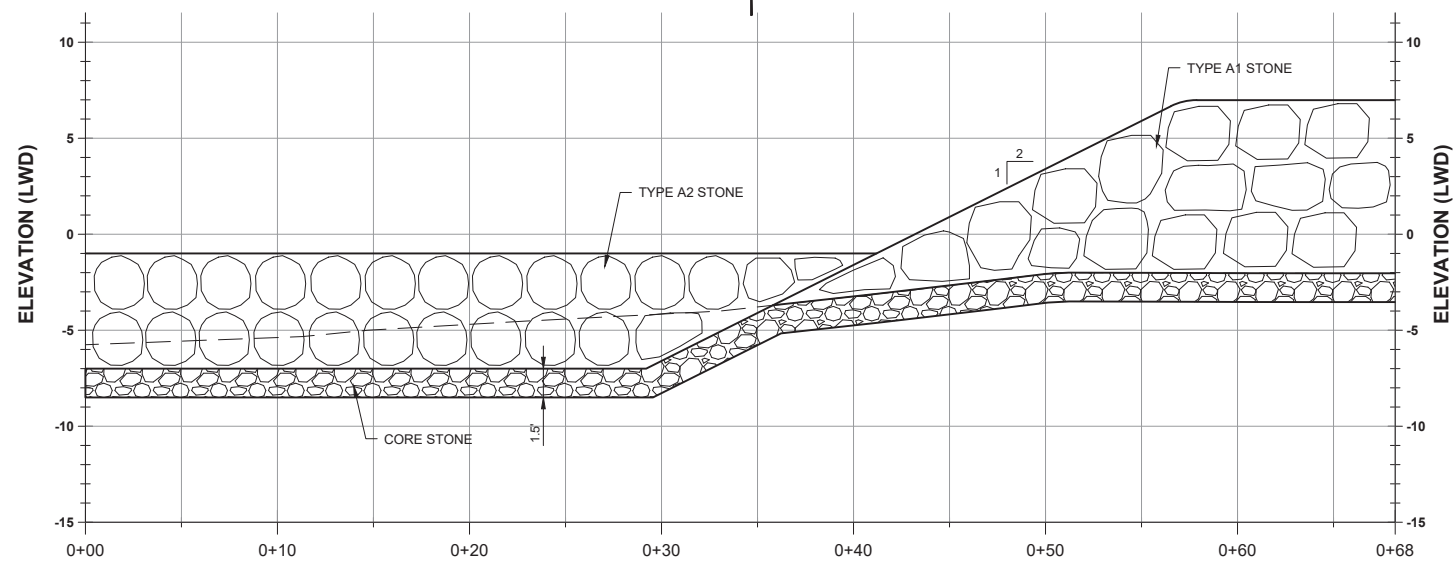
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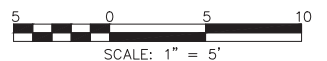
**C SECTION**  
 C-04 Scale 1" = 5' APPLIES FROM STATION 1+57 TO STATION 1+97



**D SECTION**  
 C-04 Scale 1" = 5'



**E SECTION**  
 C-04 Scale 1" = 5'



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JACKSON HARBOR  
 PROPOSED SECTIONS

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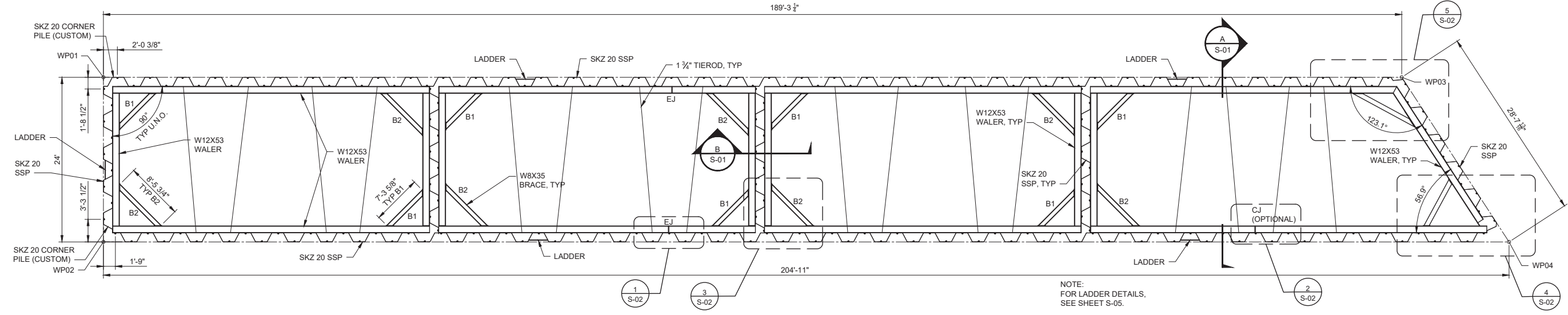
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**C-04**

SHEET 6 OF 11

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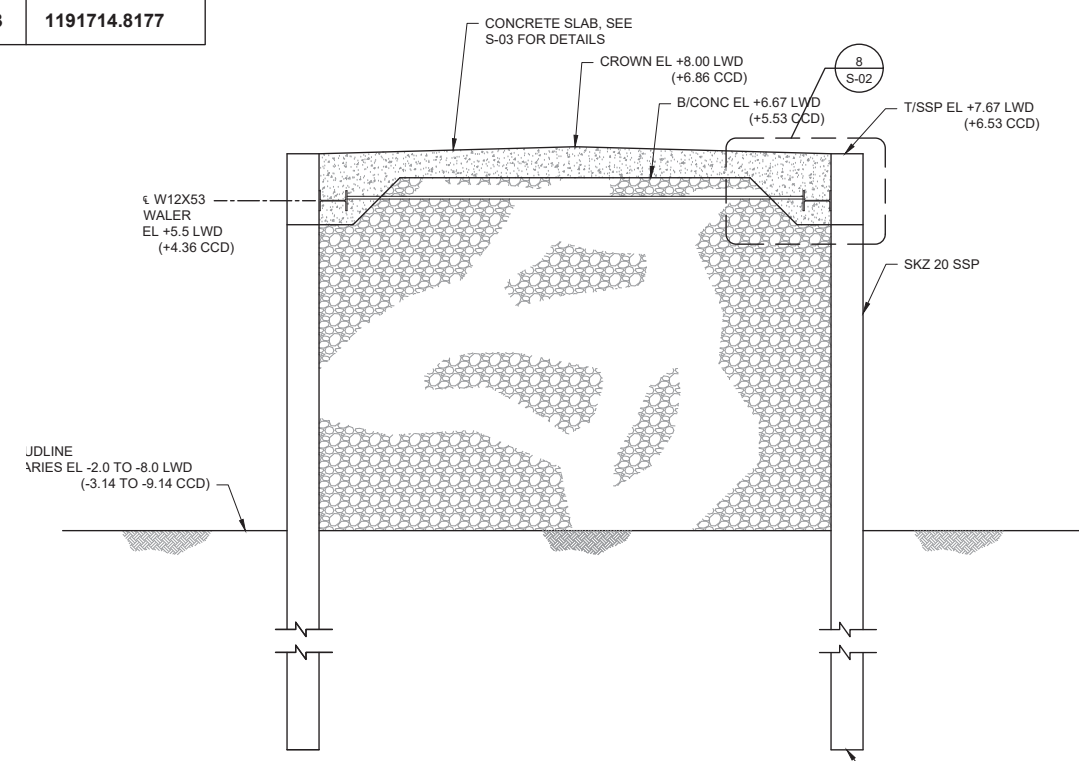
**1 PIER PLAN**  
S-01 Scale 1/8" = 1'-0"

NOTE:  
FOR LADDER DETAILS,  
SEE SHEET S-05.

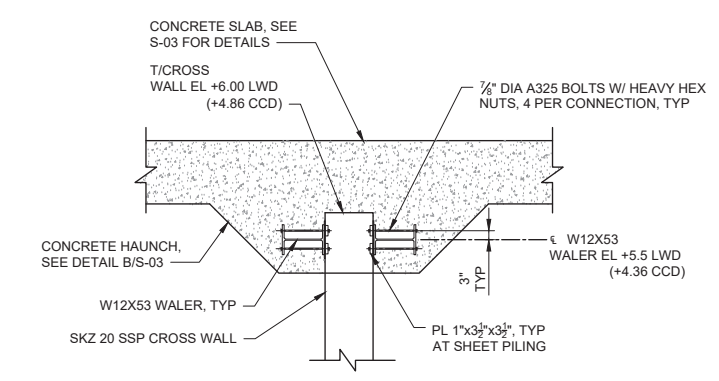
- STRUCTURAL NOTES:**
1. STRUCTURAL STEEL PER ASTM A992.
  2. STEEL SHEETING SHALL PER ASTM A572, GR. 50.
  3. FABRICATION AND ERECTION PER AISC SPECIFICATIONS.
  4. ALL WELDING SHALL CONFORM TO AWS D1.1 USING E70XX, LOW HYDROGEN ELECTRODES. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI AND SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.
  5. CELLS SHALL BE FILLED WITH CA7 MATERIAL FILL.
  6. STRUCTURAL STEEL MEMBERS AND TIE RODS SHALL BE COATED WITH SHERWIN WILLIAMS DURA-PLATE 235 MULTI-PURPOSE EPOXY PAINT SYSTEM WITH ZINC-CLAD II HS PRIMER. IN ADDITION TIE-RODS SHALL BE ENGAGED IN PVC TUBING PRIOR TO PLACEMENT.

- TYPICAL CELL CONSTRUCTION SEQUENCE**
1. CLEAR DRIVING LINE.
  2. DRIVE SHEET PILING.
  3. FILL CELL TO A MAXIMUM ELEVATION OF 582.0 (IGLD 85).
  4. INSTALL WALLERS, TIE-RODS, AND BRACES.
  5. COMPLETE FILLING OF CELL AS NEEDED PRIOR TO CONCRETE PLACEMENT.

PT #	NORTHING	EASTING
WP01	1863278.1661	1191798.8585
WP02	1863285.3392	1191775.9555
WP03	1863097.5077	1191742.3601
WP04	1863089.7443	1191714.8177



**A SECTION**  
S-01 Scale 1/4" = 1'-0"



**B SECTION**  
S-01 Scale 3/8" = 1'-0"

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 JACKSON HARBOR  
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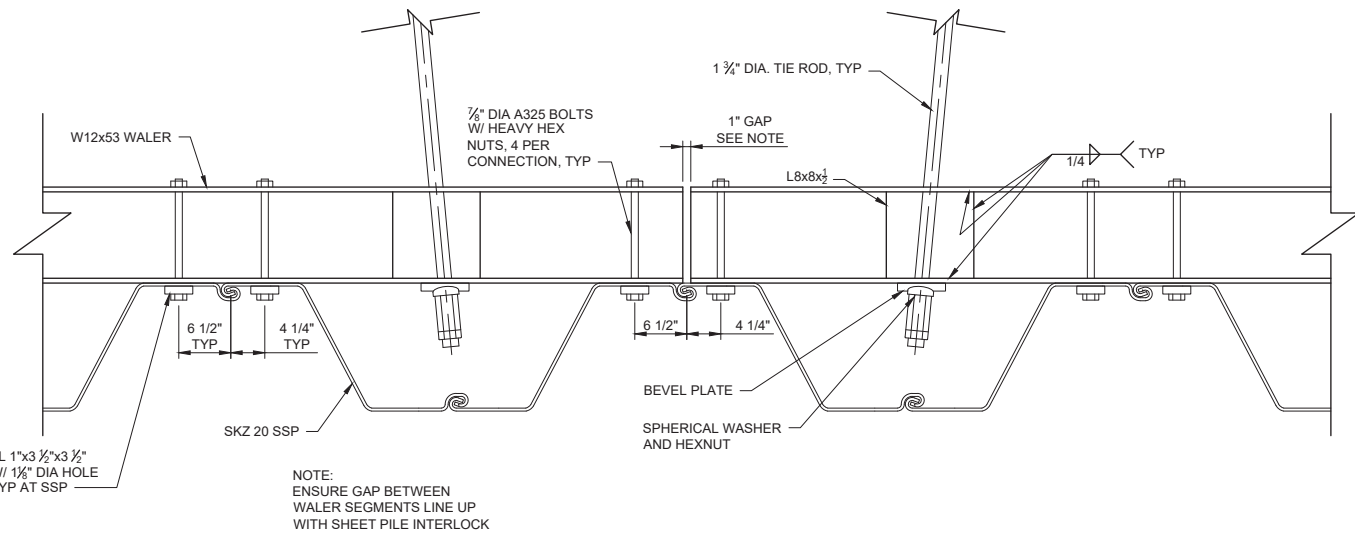
JACKSON HARBOR  
 PIER FRAMING PLAN  
 AND SECTIONS

Rev	Date	Description
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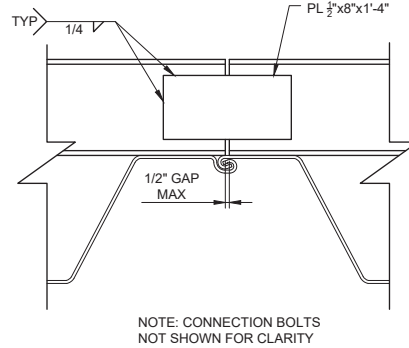
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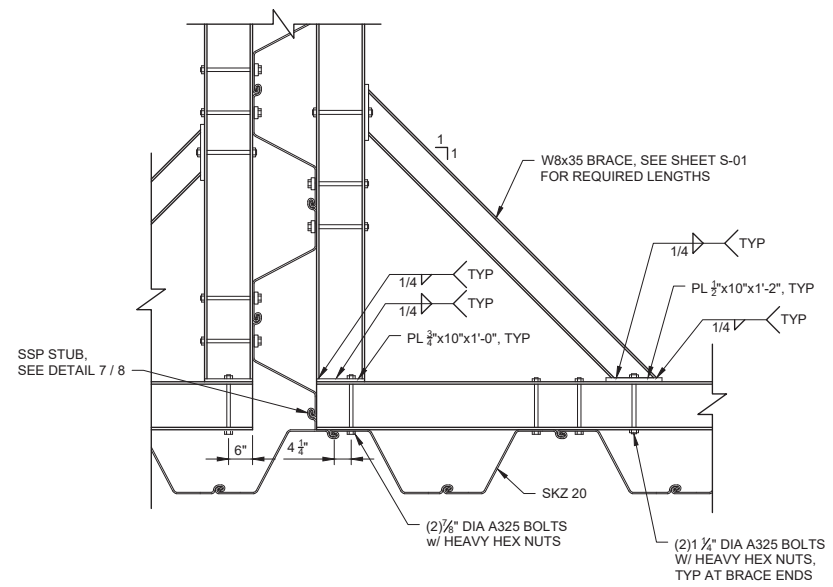
**S-01**  
SHEET 7 OF 11



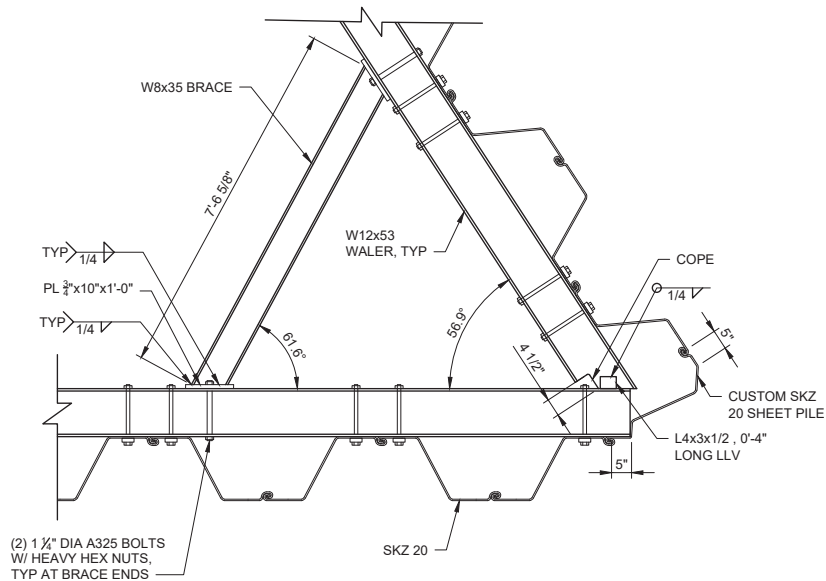
1 | **WALER DETAIL AT EXP. JOINT**  
S-02 | Scale 1" = 1'-0"



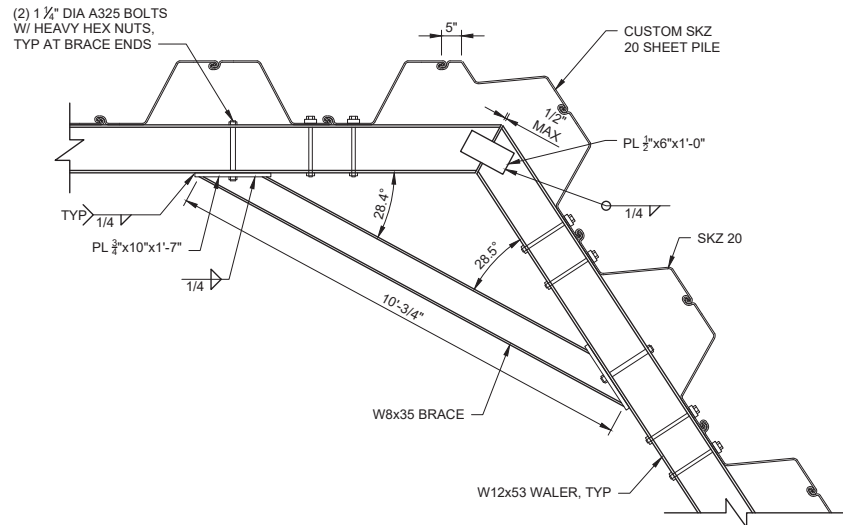
2 | **WALER DETAIL AT CONST. JOINT**  
S-02 | Scale 1" = 1'-0"



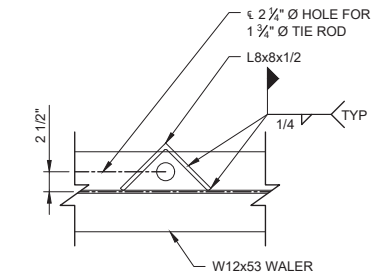
3 | **BRACE DETAIL**  
S-02 | Scale 1/2" = 1'-0"



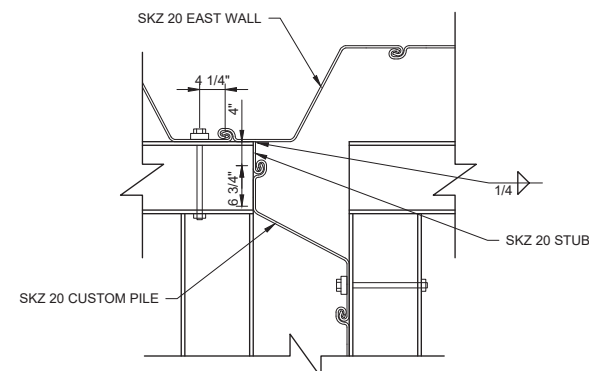
4 | **DETAIL AT SOUTHWEST CORNER**  
S-02 | Scale 1/2" = 1'-0"



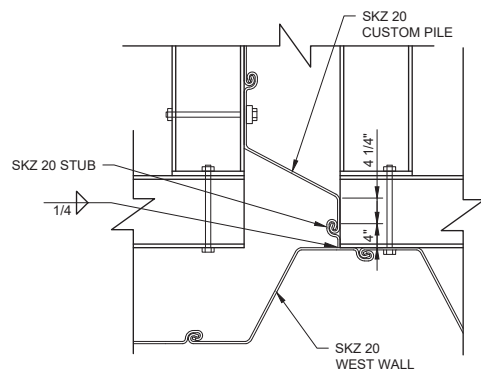
5 | **DETAIL AT SOUTHEAST CORNER**  
S-02 | Scale 1/2" = 1'-0"



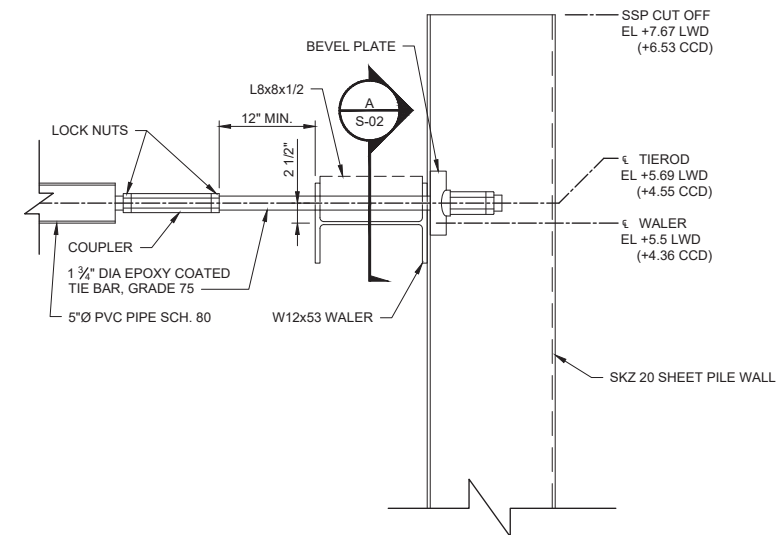
A | **SECTION AT TIE-ROD**  
S-02 | Scale 1" = 1'-0"



6 | **CROSS WALL TO EAST WALL CONNECTION**  
S-02 | Scale 3/4" = 1'-0"



7 | **CROSS WALL TO WEST WALL CONNECTION**  
S-02 | Scale 3/4" = 1'-0"

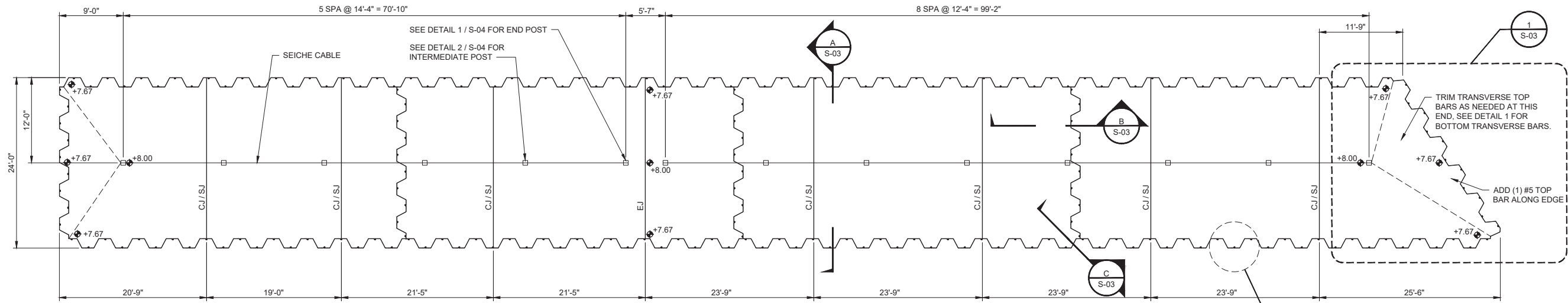


8 | **TIEROD TO WALER CONNECTION**  
S-02 | Scale 1" = 1'-0"

Rev	Date	Description
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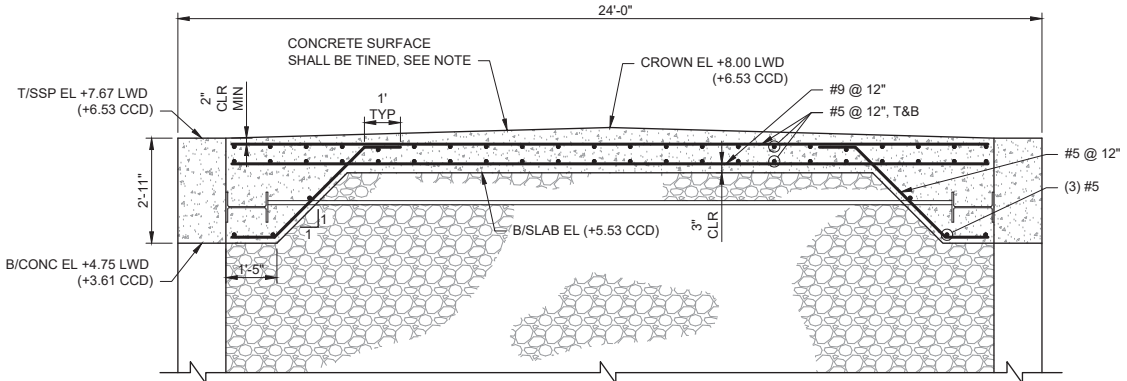
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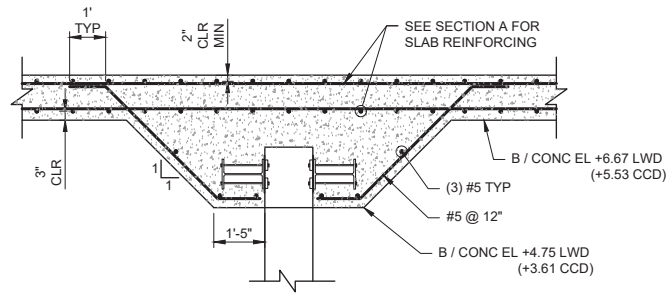
- NOTES:
- EJ = EXPANSION JOINT, SEE DETAIL 3 / S-04.
  - CJ = CONSTRUCTION JOINT, SJ = SAWCUT JOINT. SEE DETAILS 4 AND 5 SHEET S-04. C/J/SJ JOINTS MAY BE EITHER CONSTRUCTION OR SAWCUT JOINTS.

**DECK PLAN**  
Scale 1/8" = 1'-0"

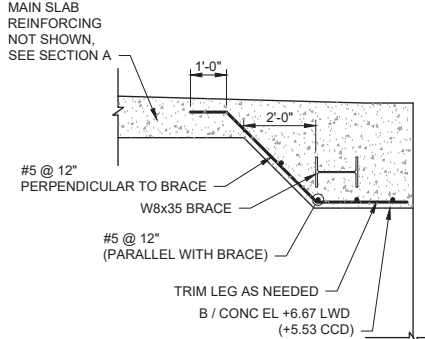
LEGEND:  
 ● +XXX.XX TOP OF DECK ELEVATION IN LWD



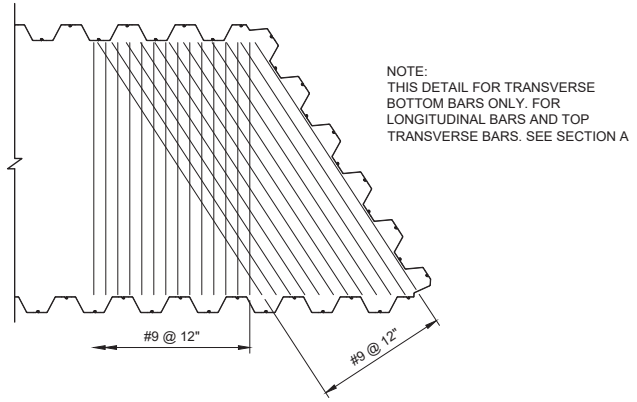
**A SECTION**  
S-03 Scale 3/8" = 1'-0"



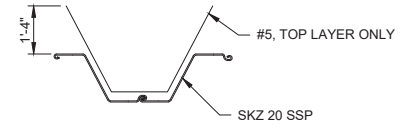
**B SECTION**  
S-03 Scale 3/8" = 1'-0"



**C SECTION AT BRACE**  
S-03 Scale 3/8" = 1'-0"



**1 BOTTOM BAR DETAIL AT SOUTH END**  
S-03 Scale: N.T.S.



**2 DETAIL AT BELLY-OUT**  
S-03 Scale 3/8" = 1'-0"

NOTE:  
 DEPTH OF TINING GROOVES SHALL BE BETWEEN 1/8" AND 3/16". SPACING OF GROOVES SHALL BE 1" MAXIMUM.



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JACKSON HARBOR  
 DECK PLAN AND SECTIONS

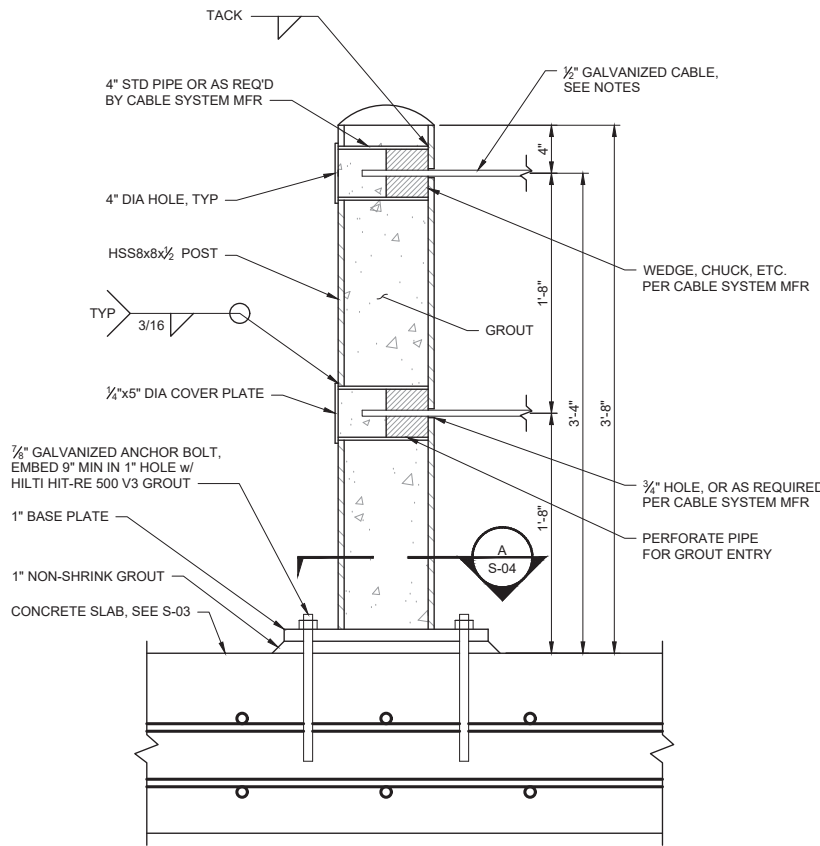
Issued	
Rev	Date Description

0 6-26-20  
 ISSUED FOR BIDDING

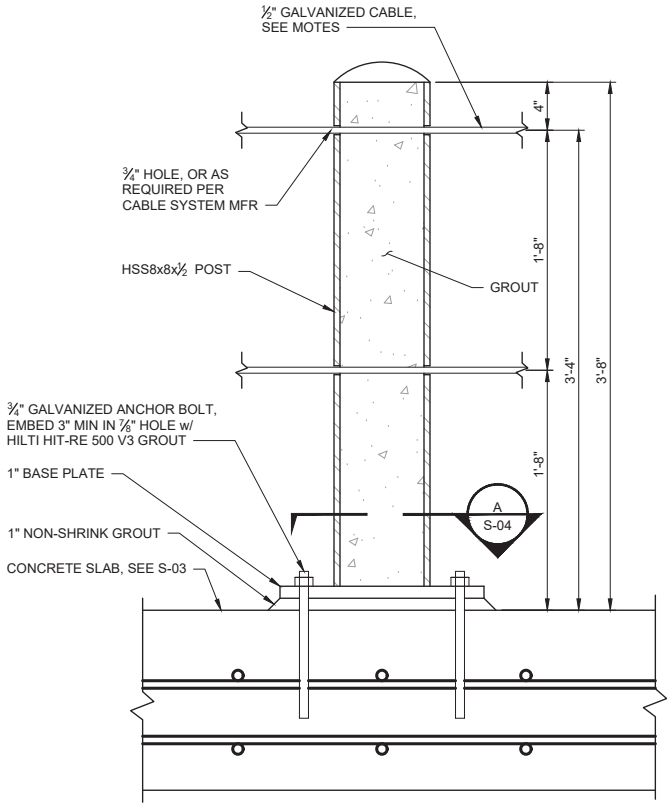
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 Drawn: DPE 6/10/20  
 Checked: TMR 6/10/20  
 Approved: WHW 6/10/20

PROJECT NUMBER  
**60283337**  
 SHEET REFERENCE NUMBER

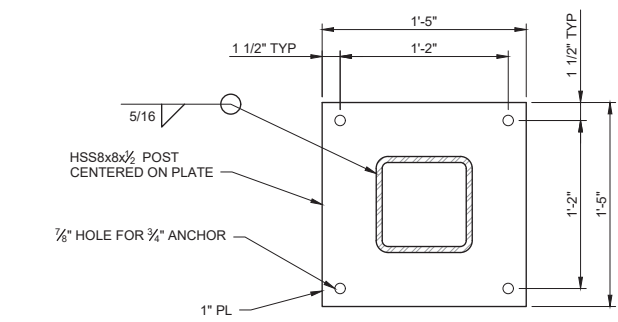
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**1 SEICHE CABLE END POST DETAIL**  
S-04 Scale 1 1/2" = 1'-0"

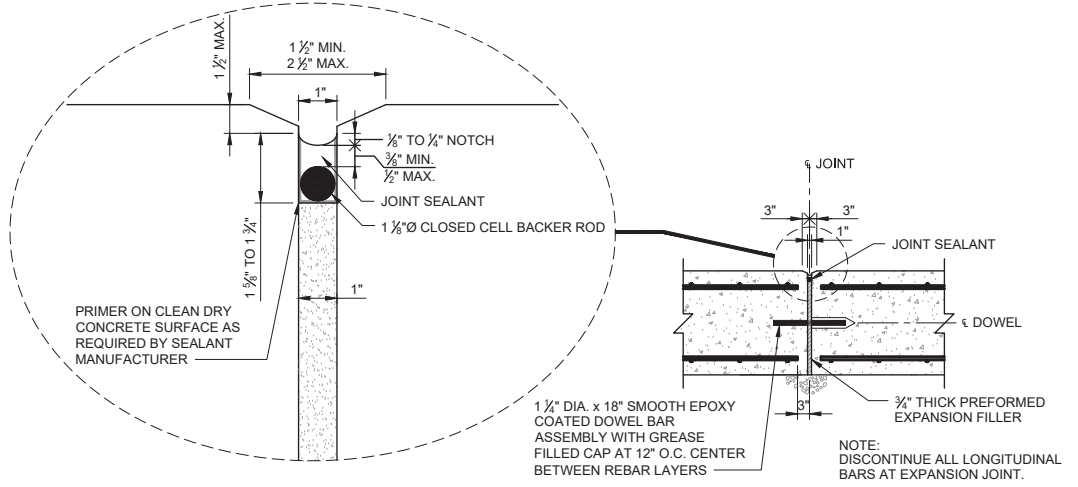


**2 SEICHE CABLE INTERMEDIATE POST DETAIL**  
S-04 Scale 1 1/2" = 1'-0"

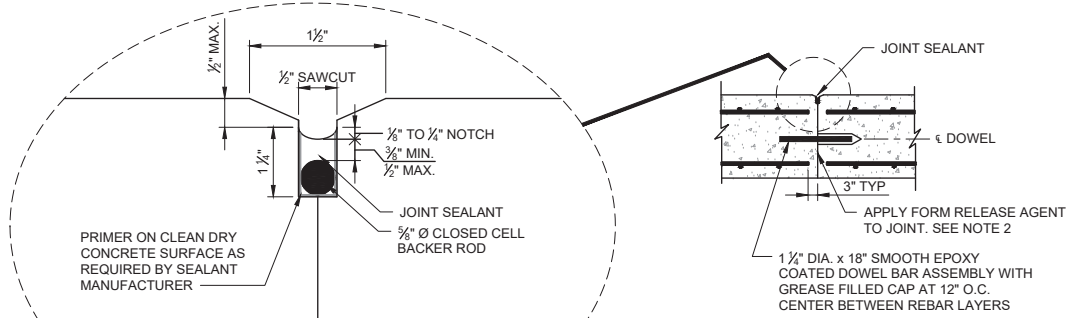


**A VIEW - BASE PLATE**  
S-04 Scale 1 1/2" = 1'-0"

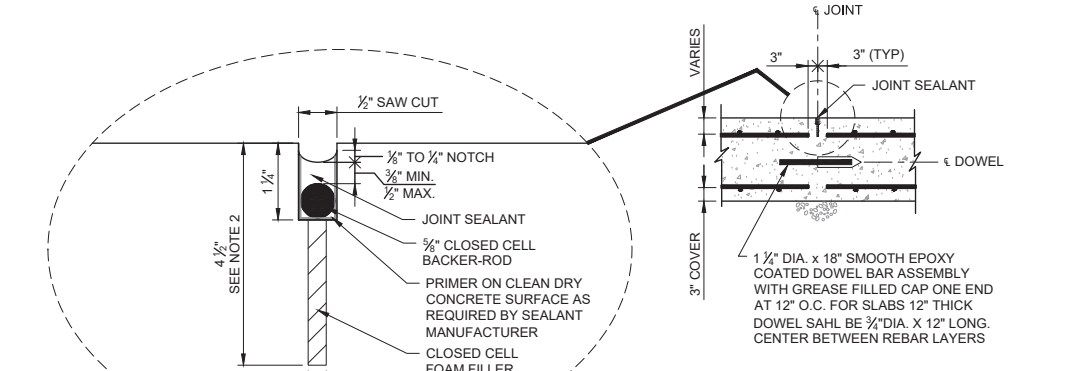
- SEICHE CABLE NOTES:**
1. ALL CABLES SHALL BE GALVANIZED.
  2. POST-TENSION SYSTEM, WEDGES, CHUCKS, CABLES, AND OTHER COMPONENTS SHALL BE PER BARRIER CABLE SYSTEMS, INC. OR EQUAL.
  3. INSTALL CABLES WITH A MINIMUM TENSION OF 2.5 KIPS AND A MAXIMUM TENSION OF 3.0 KIPS AFTER SEATING LOSSES.
  4. APPLY JACKING LOAD IN ACCORDANCE WITH POST-TENSIONING INSTITUTE (PTI) RECOMMENDATIONS
  5. CABLES MAY BE POST TENSIONED AT EITHER END.



**3 EXPANSION DETAIL**  
S-04 Scale: N.T.S.



**4 TRANVERSE CONSTRUCTION JOINT (CJ) DETAIL**  
S-04 Scale: N.T.S.



**5 TRANVERSE CONTROL / SAWCUT JOINT (SJ) DETAIL**  
S-04 Scale: N.T.S.

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STRUCTURAL DETAILS

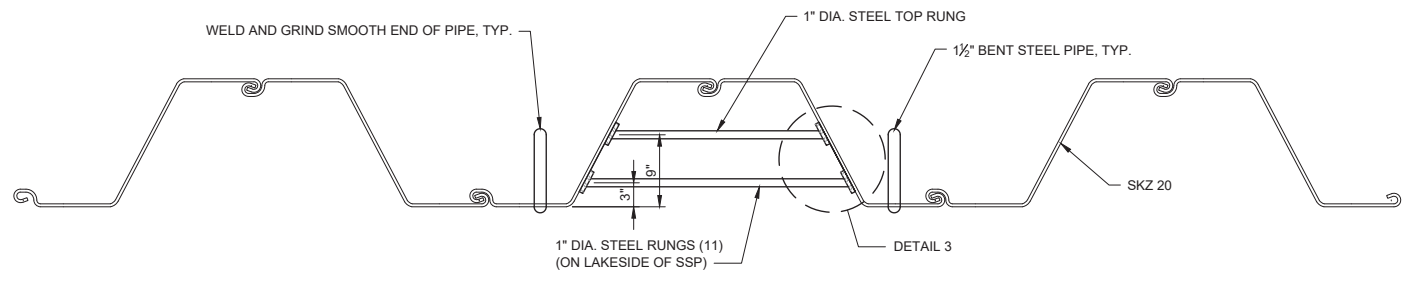
Rev	Date	Description
0	6-26-20	ISSUED FOR BIDDING

Designed: JEA 6/10/20  
Drawn: DPE 6/10/20  
Checked: TMR 6/10/20  
Approved: WHW 6/10/20

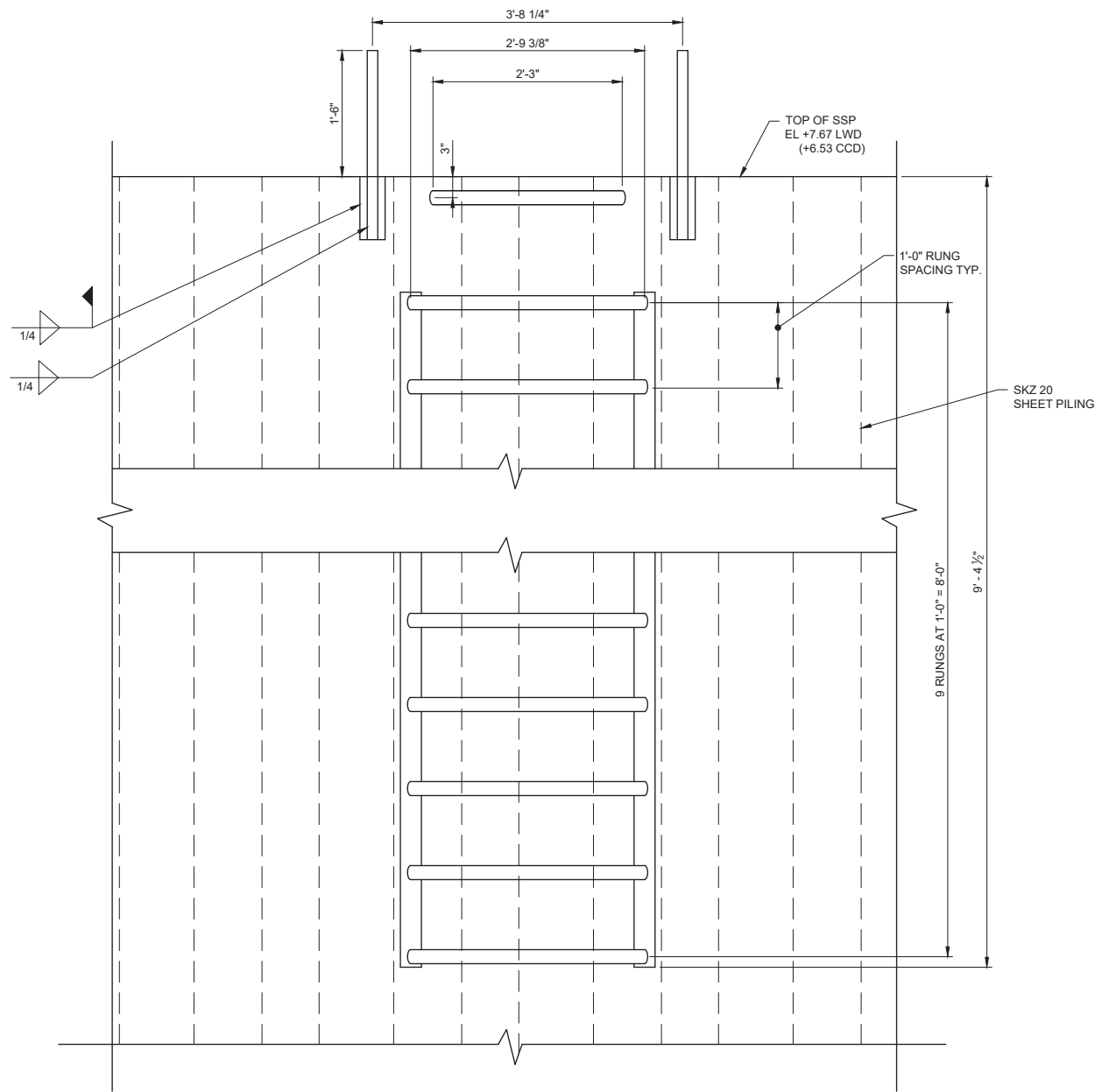
PROJECT NUMBER  
**60283337**  
SHEET REFERENCE NUMBER

**S-04**  
SHEET 10 OF 11

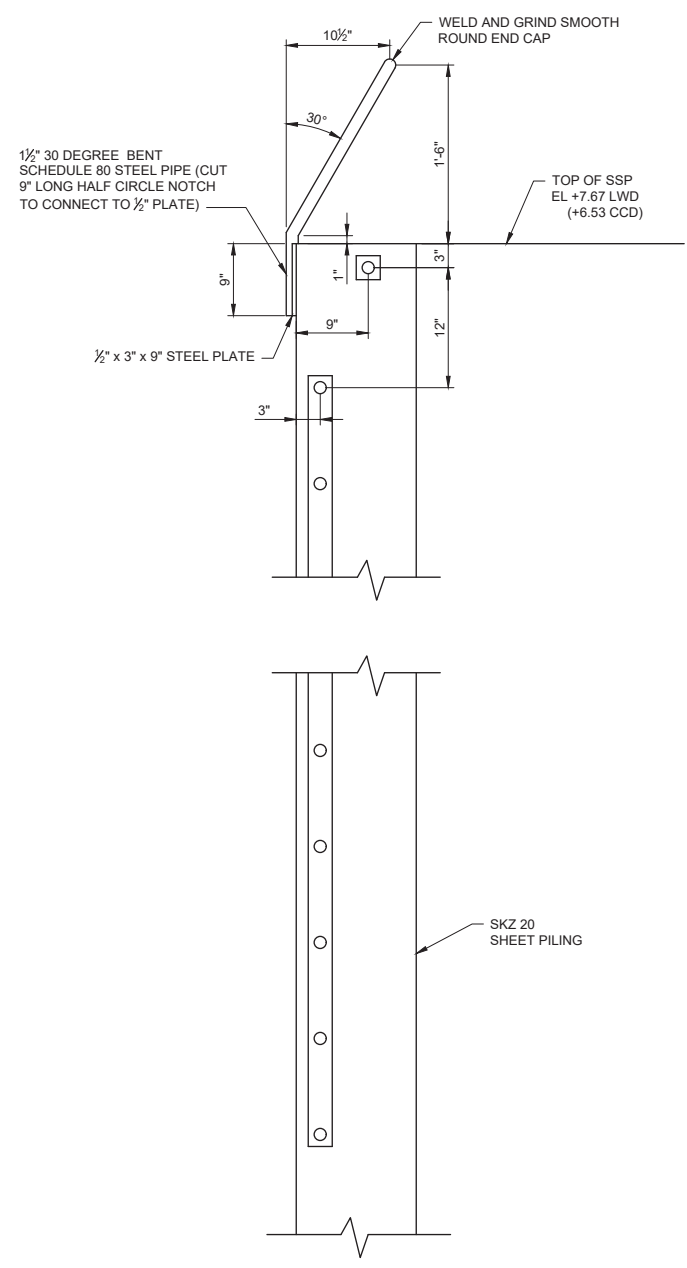
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 Designer: ##  
 Checked: ##  
 Approved: ##  
 ARCH D 24" x 36"  
 Plotted: 2020-06-26



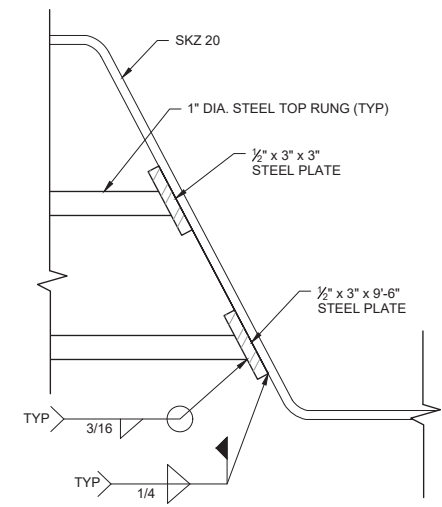
**1 SAFETY LADDER PLAN VIEW**  
S-05 Scale 1" = 1'-0"



**2 SAFETY LADDER LAKESIDE VIEW**  
S-05 Scale 1" = 1'-0"



**A SAFETY LADDER LAKESIDE VIEW**  
S-05 Scale 1" = 1'-0"



**3 DETAIL - SAFETY LADDER RUNGS**  
S-05 Scale 3" = 1'-0"

- NOTES:**
- EACH LADDER RUNG AND VERTICAL BENT PIPE HAND GRIPS SHALL BE PAINTED PRIOR TO INSTALLATION. THE ENDS OF THE RUNGS SHALL BE MASKED TO ALLOW FOR WELDING.
  - THE TOP 10' OF TWO (2) SKZ 20 SHEET PILES AT LADDERS SHALL BE PAINTED PRIOR TO DRIVING SKZ 20 SHEET PILES. PAINT SHALL BE SHERWIN WILLIAMS MLTX SG SAFETY YELLOW PAINT (OR APPROVED EQUAL). AFTER PILE DRIVING, GRIND PAINT AS NECESSARY TO ALLOW FOR WELDING OF LADDER COMPONENTS. PERFORM TOUCH-UP PAINTING AT WELDS ABOVE WATER.

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JACKSON HARBOR  
 LADDER DETAILS

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PROJECT NUMBER  
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SHEET REFERENCE NUMBER  
**S-05**