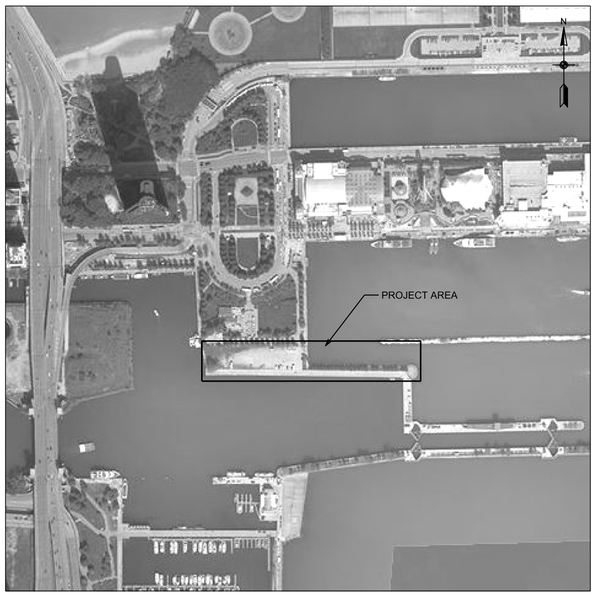
**US Army Corps of Engineers®**
CHICAGO DISTRICT

# CHICAGO LOCK
# NORTH PIER REPAIRS
# CHICAGO, ILLINOIS




LOCATION MAP
(N.T.S.)

VICINITY MAP
(N.T.S.)

SOLICITATION NO.:

CONTRACT NO.:

ISSUE DATE: DEC 2017

PRELIMINARY SUBMITTAL - 100% BCOES

## SHEET INDEX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REVIEWED BY:

/S/
ATR TEAM LEADER DATE

SIGNATURE AFFIXED BELOW INDICATE OFFICAL RECOMMENDATION AND APPROVAL FOR ALL DRAWINGS CONTAINED IN THE SHEET INDEX.

APPROVAL RECOMMENDED BY:

/S/
PROJECT MANAGER DATE

APPROVED BY:

/S/
CHIEF, DESIGN BRANCH DATE

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| MARK | DESCRIPTION | DATE |
|---|---|---|

DESIGNED BY: WITOLD KLUZA
DRAWN BY: D. BANKHEAD
CHECKED BY:
ISSUE DATE: DEC 2017
SOLICITATION NO.:
CONTRACT NO.:
PROJECT CODE: 114419
SUBMITTED BY: JOHN GROBELNY, P.E.
SIZE: ANSI X
FILE NAME: 114419_G-001.dgn


U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS


CHICAGO LOCK
NORTH PIER REPAIRS
CHICAGO, ILLINOIS

LOCATION, VICINITY MAP AND SHEET INDEX

SHEET ID

G-001

## STANDARD ABBREVIATIONS

| | |
|---|---|
| ACOE | ARMY CORPS OF ENGINEERS |
| CB | CATCH BASIN |
| CL | CENTERLINE |
| CJ | CONSTRUCTION JOINT |
| COR | CONTRACTING OFFICER'S REPRESENTATIVE |
| COE | CORPS OF ENGINEERS |
| CMP | CORRUGATED METAL PIPE |
| DIA. | DIAMETER |
| DBH | DIAMETER AT BREAST HEIGHT |
| DTM | DIGITAL TERRAIN MODEL |
| D.I.P. | DUCTILE IRON PIPE |
| EHH | ELECTRICAL HAND HOLE |
| EMH | ELECTRICAL MAN HOLE |
| ELEV | ELEVATION |
| EJ | EXPANSION JOINT |
| EN | EXTRACTION WELL |
| FF | FINISH FLOOR |
| FH | FIRE HYDRANT |
| GF | GRADE AT FOUNDATION |
| G.D. | GRATE DRAIN |
| G.M.H. | GRATED MANHOLE |
| HWL | HIGH WATER ELEVATION |
| H | HORIZONTAL |
| IDOT | ILLINOIS DEPARTMENT OF TRANSPORTATION |
| LCP | LOCAL CONTROL PANEL |
| MH | MANHOLE |
| MIN | MINIMUM |
| MW | MONITORING WELL |
| NGVD | NATIONAL GEODETIC VERTICAL DATUM |
| NWL | NATURAL WATER LINE |
| NAVD | NORTH AMERICAN VERTICAL DATUM |
| NTS | NOT TO SCALE |
| OSI | OCEAN SURVEYS, INC. |
| S | PIPE SLOPE |
| RCP | REINFORCED CONCRETE PIPE |
| SSP | STEEL SHEET PILE |
| TYP. | TYPICAL |
| VIF | VERIFY IN FIELD |
| V | VERTICAL |
| WLP | WELL POINTS |
| WL | WORK LIMIT |
| WP | WORK POINT |

## LEGEND

### LINE STYLES

- FENCE
- DESIGN CONTOUR (10)
- EXISTING CONTOUR (11)
- EDGE OF WATER
- WORK LIMITS
- SAN — SANITARY WASTE
- SD — STORM DRAIN
- E — ELECTRICAL PRIMARY
- ES — ELECTRICAL SECONDARY
- T — TELEPHONE LINE
- DWR — WATER DOMESTIC MAIN
- G — GAS LINE

### SYMBOLS

- (D) STORM MANHOLE
- (W) WATER MANHOLE
- TRIANGULATION POINT
- (E) ELECTRICAL MANHOLE
- (MW) MONITORING WELL
- WATER VALVE VAULT
- FIRE HYDRANT
- ▼ W.L. AT '( ) WATER LEVEL
- [H] ELECTRIC HANDHOLE
- GUY WIRE
- UTILITY POLE
- TREE
- [CB] CATCH BASIN
- (CB) CATCH BASIN ROUND

GRID LETTER/NUMBER

(X#) DRAWING AREA TITLE

SCALE:

DRAWING AREA TITLE INDICATOR

X# / X-### — GRID LETTER/NUMBER OF DETAIL; SHEET WHERE DETAIL IS SHOWN

DETAIL INDICATOR

DIRECTION OF CUT

X# / X-### — GRID LETTER/NUMBER OF SECTION; SHEET WHERE SECTION IS SHOWN

SECTION INICATOR

US Army Corps of Engineers®

| MARK | DESCRIPTION | DATE |
|---|---|---|

| | |
|---|---|
| DESIGNED BY: | WITOLD KLUZA |
| DRAWN BY: | D. BANKHEAD |
| CHECKED BY: | |
| ISSUE DATE: | DEC 2017 |
| SOLICITATION NO.: | |
| CONTRACT NO.: | |
| PROJECT CODE: | 114419 |
| SUBMITTED BY: | JOHN GROBELNY, P.E. |
| SIZE: | ANSI D |
| FILE NAME: | 114419_G-002.dgn |

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS

CHICAGO LOCK
NORTH PIER REPAIRS
CHICAGO, ILLINOIS

LEGEND, ABBREVIATIONS AND GENERAL NOTES

SHEET ID

G-002

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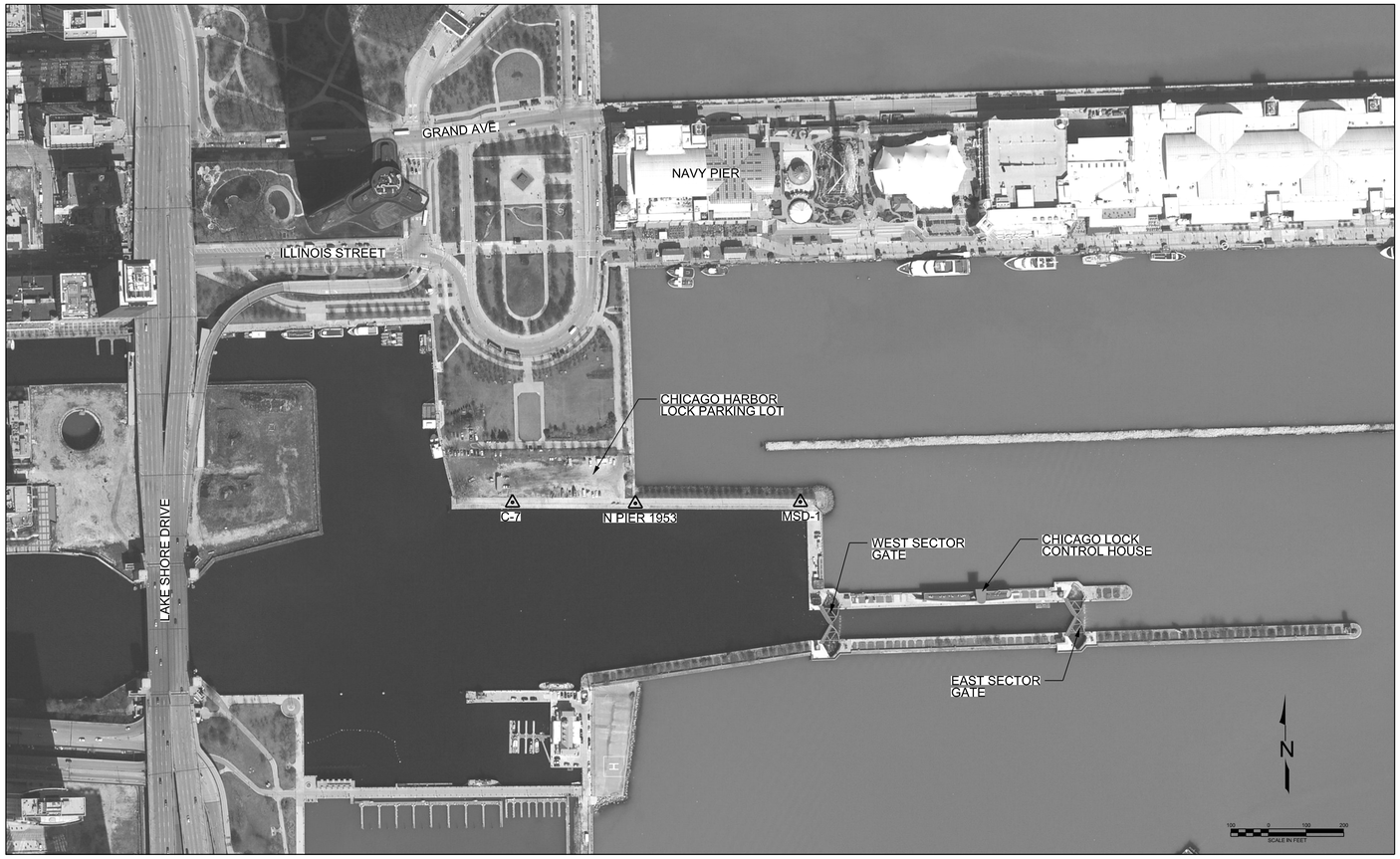
| HORIZONTAL & VERTICAL CONTROL POINTS | | | | |
|---|---|---|---|---|
| POINT | IL EAST NAD83 STATEPLANE COORDINATES | | ELEV. NAVD88 | DESCRIPTION |
| | NORTHING (Y) | EASTING (X) | | |
| C-7 | 1,903,091.14 | 1,181,013.77 | 588.024 | BRASS DISK |
| MSD-1 | 1,903,092.51 | 1,181,777.02 | 587.659 | BRASS DISK |
| N PIER 1953 | 1,903,088.56 | 1,181,339.68 | 587.862 | BRASS DISK |
| | | | | |

## GENERAL NOTES

1. THE CONTROL POINTS SHOWN ON THIS SHEET ARE FROM AN JUNE 2015 SURVEY PERFORMED BY US ARMY CORPS OF ENGINEERS, CHICAGO DISTRICT AND REPRESENTS CONDITIONS EXISTING AT THAT TIME. EXISTING CONDITIONS DURING CONSTRUCTION MAY VARY AND DIFFER FROM THOSE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY ACTIONS TO ASSESS THE EXISTING CONDITIONS AT THE TIME OF BIDDING, AND INCLUDE COST ACCORDINGLY IN THE BID.
2. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) U.S. FEET.
3. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. FEET.
4. ALL HORIZONTAL AND VERTICAL CONTROL POINTS ARE REFERENCED TO NGS PIDS M33251, ME1961, AND AJ2806.
5. CONVERSION FROM NAVD88-579.03 = CCD




**USACE Survey Monument Archival & Retrieval Tool Datasheet** FIUO: None Type: Read-Only

Designation: C-7
Project: Chicago Lock
Stamping: C-7
PID NGS: COE: AGY241
State: Illinois
County: Cook
District: Chicago
Nearest Town: Chicago
USGS Quad:
T.R.S.:
Nearest Hwy/Mi: LAKE SHORE DR
Date Recovered: 06/19/2015
By: USACE
Condition/Stability: Good
Setting/Monument Type: Disc
Owner: USACE
GPS Suitable: (•) Yes ( ) No
Obstructions: [ ] N [ ] E [ ] S [ ] W
Magnetic: ( ) Yes (•) No
Access: Access obtained through USACE controlled gate at the Chicago Lock

- Horizontal -
Datum: NAD83 ( 2011 )
Lat: 41 53 21.59613 N
Lon: 87 36 38.48993 W
Local Accuracy: 2-cm
NSRS Accuracy: 2'
Survey/Computation Method: OPUS-rapid static
Date Observed: 06/19/2015

- Vertical -
Datum: NAVD88 ( )
Elevation Ht: 588.024 Ft
Ellip Ht:
Local Accuracy: 5-cm
NSRS Accuracy: 0.25'
Survey/Computation Method:
Date Observed: 06/19/2015 Geoid12A

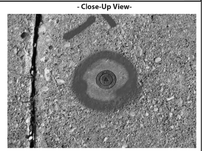
- Tidal/Hydraulic Gage Relationships -

| Owner: | Gage ID: | - Elevation - | - Datum - | Epoch: |
|---|---|---|---|---|
| | | | | |
| | | | | |

LX_LY_LZ:
Description/Comments: Disk set in concrete on the north pier of the Chicago Lock. CCD elevation = 8.99
Zn1: 1201 N1: 1,903,091.14 USFT E1: 1,181,013.77 USFT UTM Zn1: 16 N1: 15,215,428.06 USFT E1: 1,474,197.61 USFT
Zn2: N2: USFT E2: USFT UTM Zn2: N2: USFT E2: USFT

- Horizon/Setup View -

- Close-Up View-



Required Fields In Red | Submit | System Fields in Green | U-SMART ver 5.4 June 2016

**USACE Survey Monument Archival & Retrieval Tool Datasheet** FIUO: None Type: Read-Only

Designation: MSD-1
Project: Chicago Lock
Stamping:
PID NGS: COE: AGY253
State: Illinois
County: Cook
District: Chicago
Nearest Town: Chicago
USGS Quad:
T.R.S.:
Nearest Hwy/Mi: LAKE SHORE DR
Date Recovered: 06/19/2015
By: USACE
Condition/Stability: Good
Setting/Monument Type: Disc
Owner: USACE
GPS Suitable: (•) Yes ( ) No
Obstructions: [ ] N [ ] E [ ] S [ ] W
Magnetic: ( ) Yes (•) No
Access: Access obtained through USACE controlled gate at the Chicago Lock

- Horizontal -
Datum: NAD83 ( 2011 )
Lat: 41 53 21.54599 N
Lon: 87 36 28.39930 W
Local Accuracy: 2-cm
NSRS Accuracy: 2'
Survey/Computation Method: RTK
Date Observed: 06/19/2015

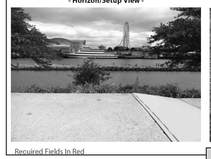
- Vertical -
Datum: NAVD88 ( )
Elevation Ht: 587.659 Ft
Ellip Ht:
Local Accuracy: 5-cm
NSRS Accuracy: 0.25'
Survey/Computation Method:
Date Observed: 06/19/2015 Geoid12A

- Tidal/Hydraulic Gage Relationships -

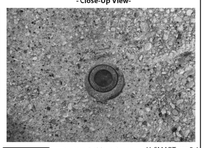
| Owner: | Gage ID: | - Elevation - | - Datum - | Epoch: |
|---|---|---|---|---|
| | | | | |
| | | | | |

LX_LY_LZ:
Description/Comments: Disk set in concrete on the north pier of the Chicago Lock. CCD elevation = 8.63
Zn1: 1201 N1: 1,903,092.51 USFT E1: 1,181,777.02 USFT UTM Zn1: 16 N1: 15,215,409.60 USFT E1: 1,474,960.47 USFT
Zn2: N2: USFT E2: USFT UTM Zn2: N2: USFT E2: USFT

- Horizon/Setup View -



- Close-Up View-



Required Fields In Red | Submit | System Fields in Green | U-SMART ver 5.4 June 2016

**USACE Survey Monument Archival & Retrieval Tool Datasheet** FIUO: None Type: Read-Only

Designation: NPIER 1953
Project: Chicago Lock
Stamping: NPIER 1953
PID NGS: AI2806 COE: AGY248
State: Illinois
County: Cook
District: Chicago
Nearest Town: Chicago
USGS Quad:
T.R.S.:
Nearest Hwy/Mi: LAKE SHORE DR
Date Recovered: 06/19/2015
By: USACE
Condition/Stability: Good
Setting/Monument Type: Disc
Owner: USACE
GPS Suitable: (•) Yes ( ) No
Obstructions: [ ] N [ ] E [ ] S [ ] W
Magnetic: ( ) Yes (•) No
Access: Access obtained through USACE controlled gate at the Chicago Lock

- Horizontal -
Datum: NAD83 ( 2011 )
Lat: 41 53 21.54346 N
Lon: 87 36 34.18158 W
Local Accuracy: 2-cm
NSRS Accuracy: 2'
Survey/Computation Method: RTK
Date Observed: 06/19/2015

- Vertical -
Datum: NAVD88 ( )
Elevation Ht: 587.862 Ft
Ellip Ht:
Local Accuracy: 5-cm
NSRS Accuracy: 0.25'
Survey/Computation Method:
Date Observed: 06/19/2015 Geoid12A

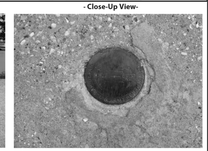
- Tidal/Hydraulic Gage Relationships -

| Owner: | Gage ID: | - Elevation - | - Datum - | Epoch: |
|---|---|---|---|---|
| | | | | |
| | | | | |

LX_LY_LZ:
Description/Comments: Disk set in concrete on the north pier of the Chicago Lock. CCD elevation = 8.83
Zn1: 1201 N1: 1,903,088.56 USFT E1: 1,181,339.68 USFT UTM Zn1: 16 N1: 15,215,412.42 USFT E1: 1,474,523.30 USFT
Zn2: N2: USFT E2: USFT UTM Zn2: N2: USFT E2: USFT

- Horizon/Setup View -

- Close-Up View-



Required Fields In Red | Submit | System Fields in Green | U-SMART ver 5.4 June 2016

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| DRAWN BY: | D. BANKHEAD |
| CHECKED BY: | |
| ISSUE DATE: | DEC 2017 |
| SOLICITATION NO.: | |
| CONTRACT NO.: | |
| PROJECT CODE: | 114419 |
| SUBMITTED BY: | JOHN GROBELNY, P.E. |
| SIZE: FILE NAME: | ANSI D 114419_V-001.dgn |

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
CHICAGO, ILLINOIS

CHICAGO LOCK
NORTH PIER REPAIRS
CHICAGO, ILLINOIS

# SURVEY CONTROL AND BENCHMARKS

SHEET ID
V-001

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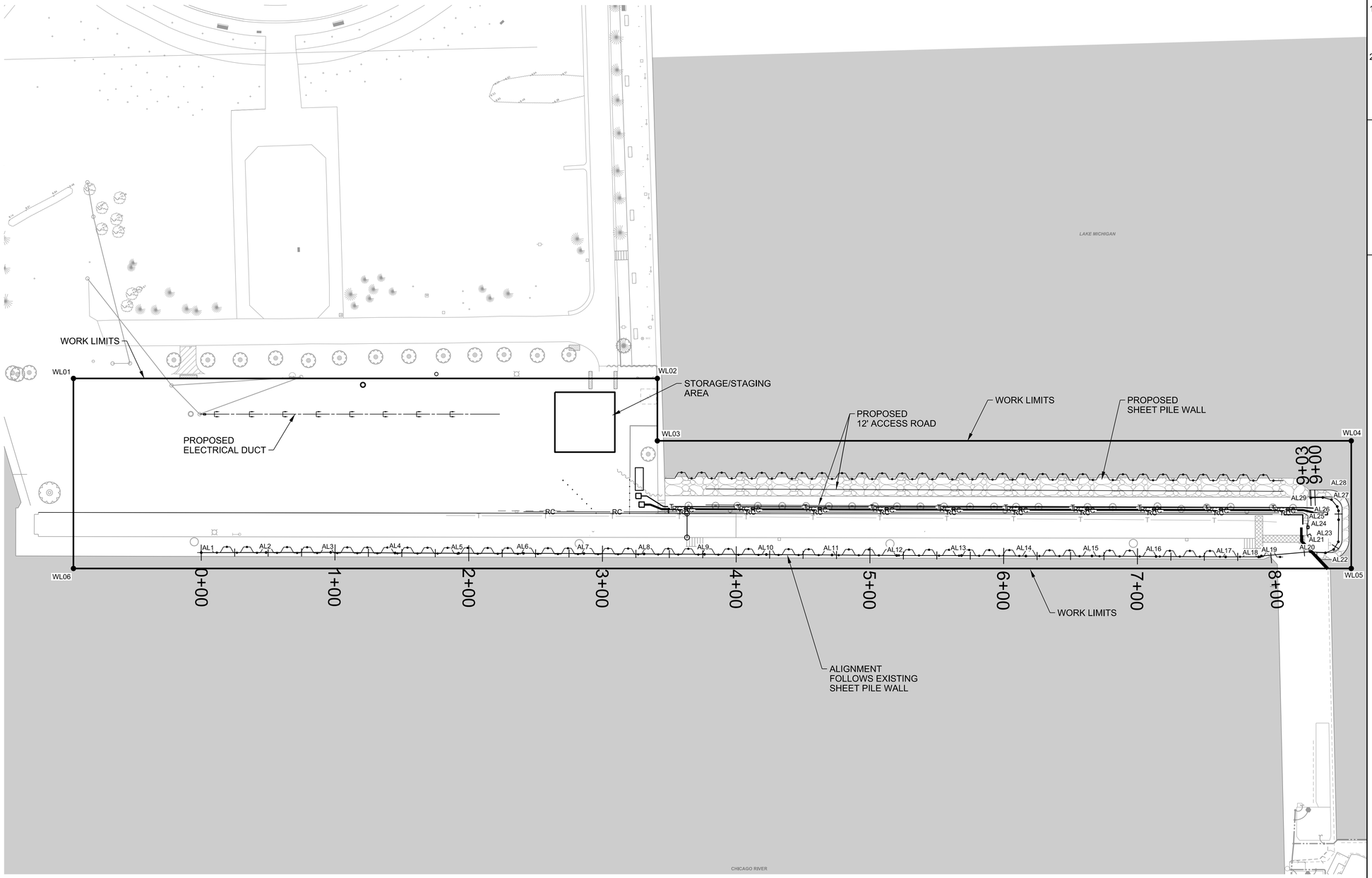


A1 SITE PLAN
SCALE: 1" = 40'

## GENERAL NOTES

1. PARKING STORAGE/STAGING AREA TO BE SHARED WITH ANOTHER CONTRACTOR WORKING ON SITE UNDER DIFFERENT CONTRACT.
2. PARKING/PIER TO BE SHARED WITH USACE EMPLOYEE WORK IN THE LOCK 24-HOURS A DAY.

WORK LIMITS

| NAME | NORTHING | EASTING |
|---|---|---|
| WL01 | 1,180,897.86 | 1,903,199.97 |
| WL02 | 1,181,334.43 | 1,903,199.97 |
| WL03 | 1,181,334.43 | 1,903,153.34 |
| WL04 | 1,181,859.26 | 1,903,153.34 |
| WL05 | 1,181,853.26 | 1,903,057.95 |
| WL06 | 1,181,897.86 | 1,903,057.95 |

ALIGNMENT

| POINT | STATION | NORTHING | EASTING |
|---|---|---|---|
| AL1 | 0+00 | 1,903,069.76 | 1,180,993.41 |
| AL2 | 0+48 | 1,903,069.89 | 1,181,041.90 |
| AL3 | 0+97 | 1,903,070.00 | 1,181,090.19 |
| AL4 | 1+45 | 1,903,069.55 | 1,181,138.31 |
| AL5 | 1+94 | 1,903,069.34 | 1,181,185.89 |
| AL6 | 2+42 | 1,903,069.30 | 1,181,234.33 |
| AL7 | 2+87 | 1,903,069.09 | 1,181,279.47 |
| AL8 | 3+32 | 1,903,068.85 | 1,181,324.47 |
| AL9 | 3+78 | 1,903,068.58 | 1,181,369.62 |
| AL10 | 4+24 | 1,903,068.37 | 1,181,415.90 |
| AL11 | 4+73 | 1,903,068.05 | 1,181,465.04 |
| AL12 | 5+21 | 1,903,067.68 | 1,181,513.41 |
| AL13 | 5+70 | 1,903,067.62 | 1,181,561.80 |
| AL14 | 6+18 | 1,903,067.21 | 1,181,609.99 |
| AL15 | 6+67 | 1,903,067.28 | 1,181,659.35 |
| AL16 | 7+15 | 1,903,066.92 | 1,181,707.32 |
| AL17 | 7+67 | 1,903,066.64 | 1,181,759.33 |
| AL18 | 7+92 | 1,903,066.59 | 1,181,783.97 |
| AL19 | 7+94 | 1,903,067.27 | 1,181,786.04 |
| AL20 | 8+31 | 1,903,070.42 | 1,181,822.57 |
| AL21 | 8+42 | 1,903,069.64 | 1,181,834.00 |
| AL22 | 8+49 | 1,903,072.12 | 1,181,840.09 |
| AL23 | 8+56 | 1,903,077.86 | 1,181,843.61 |
| AL24 | 8+72 | 1,903,094.38 | 1,181,843.80 |
| AL25 | 8+78 | 1,903,101.07 | 1,181,843.71 |
| AL26 | 8+81 | 1,903,104.25 | 1,181,842.79 |
| AL27 | 8+88 | 1,903,109.40 | 1,181,838.49 |
| AL28 | 8+95 | 1,903,111.02 | 1,181,832.00 |
| AL29 | 9+03 | 1,903,110.71 | 1,181,822.99 |

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DESIGNED BY: WITOLD KLUZA
DRAWN BY: D. BANKHEAD
CHECKED BY:
SUBMITTED BY: JOHN GROBOSKI, P.E.
SIZE: ANSI D
FILE NAME: 114419_C-101.dgn
ISSUE DATE: DEC 2017
SOLICITATION NO.:
CONTRACT NO.:
PROJECT CODE: 114419

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 SOUTH LASALLE STREET, SUITE 1500
CHICAGO, ILLINOIS

CHICAGO LOCK
NORTH PIER REPAIRS
CHICAGO, ILLINOIS

OVERALL SITE PLAN

SHEET ID
C-101

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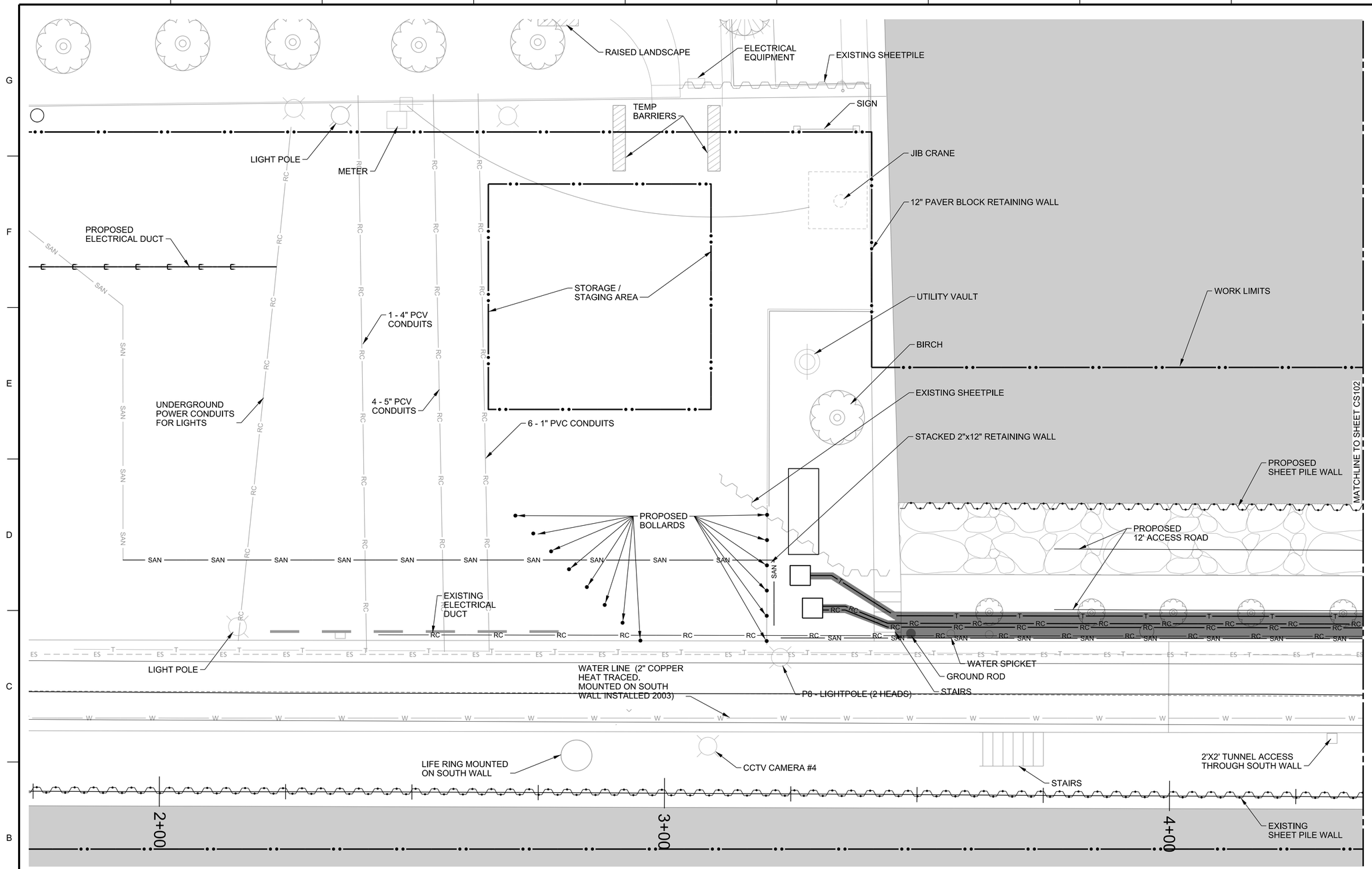


A1 SITE PLAN
SCALE: 1" = 10'

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PROJECT CODE: 114419
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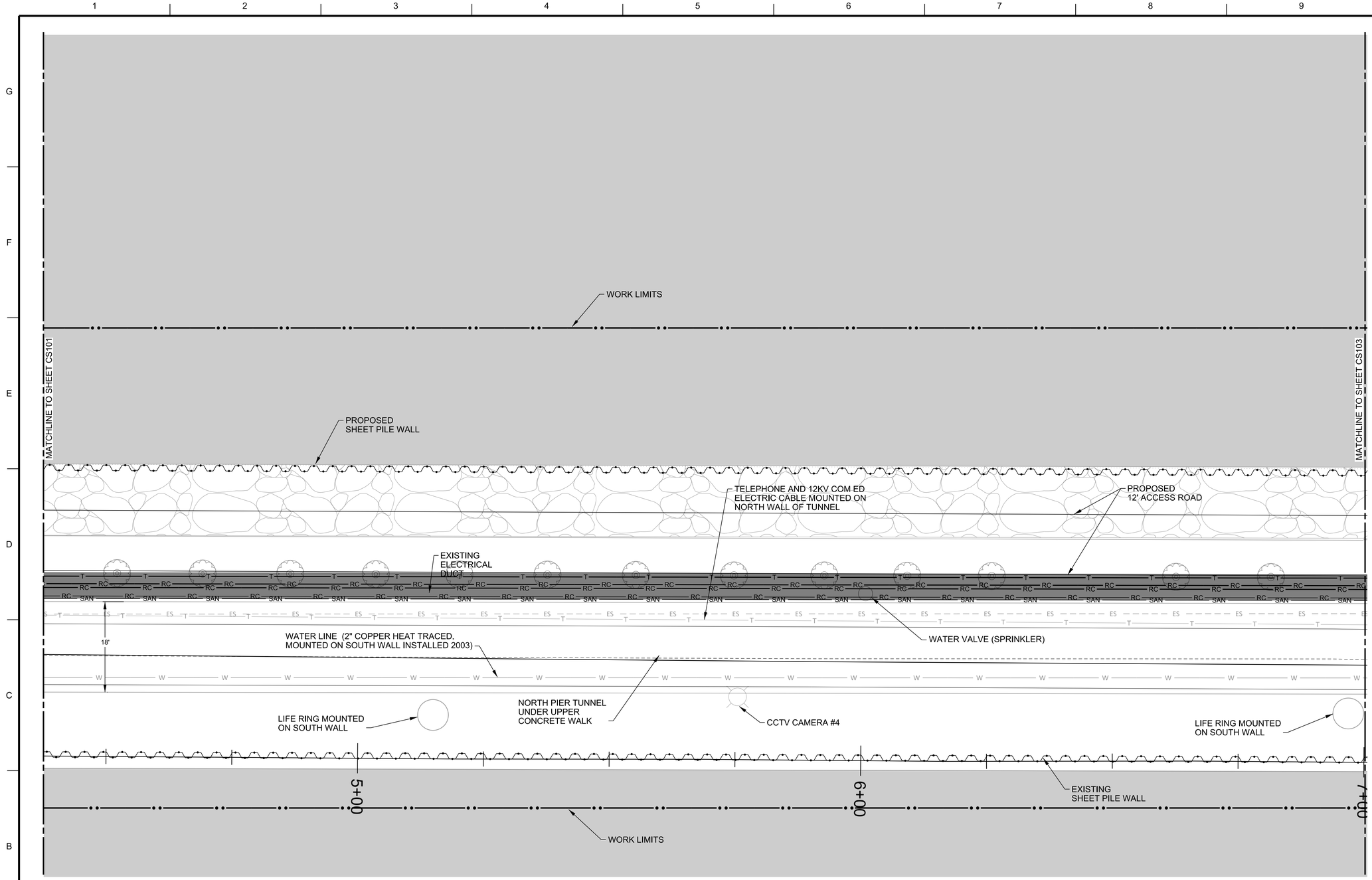
SIZE: ANSI D
FILE NAME: 114419_CS101.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 SOUTH LASALLE STREET, SUITE 1500
CHICAGO, ILLINOIS

CHICAGO HARBOR AND LOCK
NORTH PIER REPAIR
CHICAGO, ILLINOIS

SITE PLAN

SHEET ID
CS101




A1 SITE PLAN
SCALE: 1" = 10'

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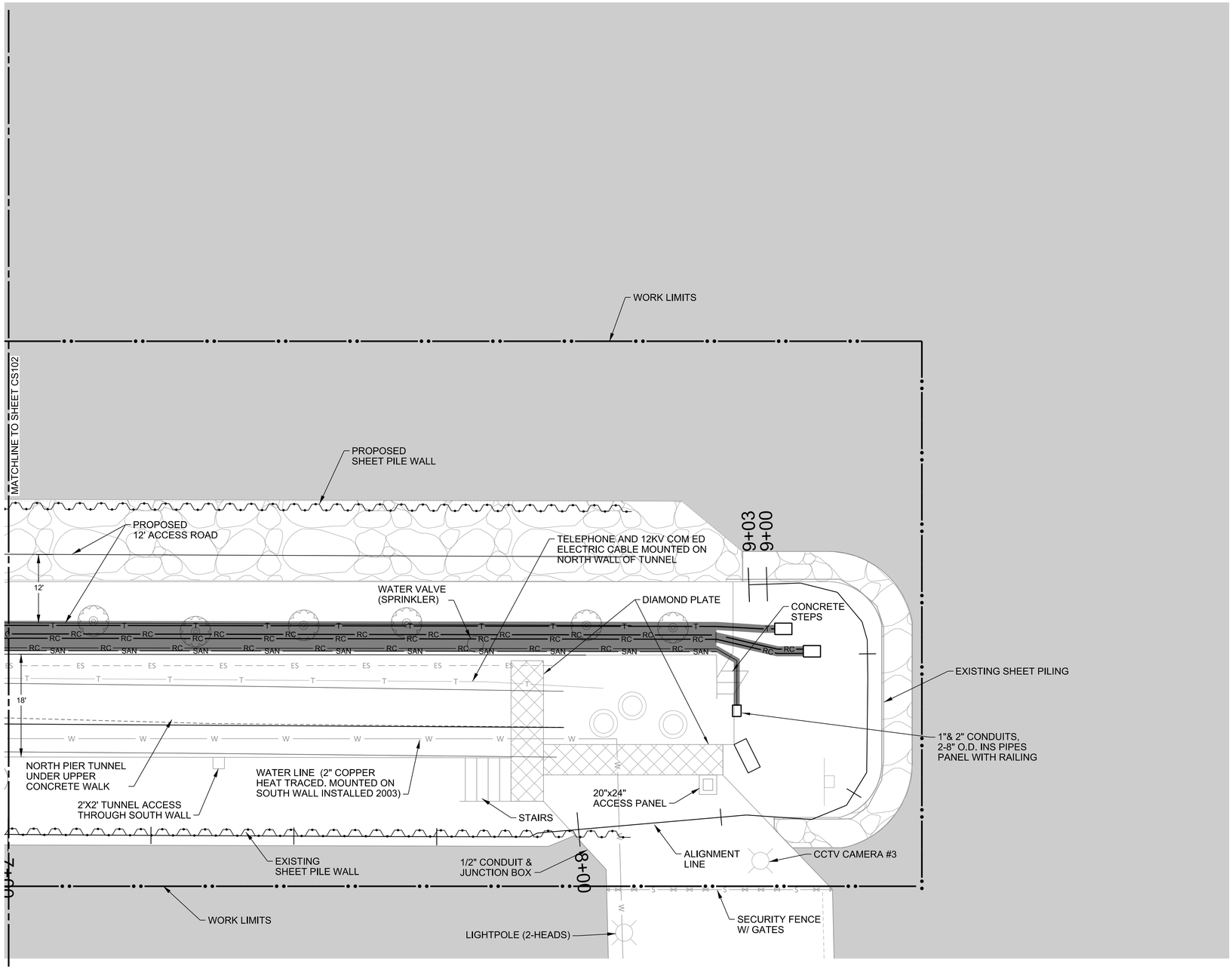
SUBMITTED BY: JOHN GROBOSKI, P.E.
SUPERVISORY CIVIL ENGINEER
FILE NAME: 114419_CS102.dgn
ANSI D

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 SOUTH LASALLE STREET, SUITE 1500
CHICAGO, ILLINOIS

CHICAGO HARBOR AND LOCK
NORTH PIER REPAIR
CHICAGO, ILLINOIS

SITE PLAN

SHEET ID
CS102




A1 SITE PLAN
SCALE: 1" = 10'

N

0 10' 20'

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CONTRACT NO.:
PROJECT CODE: 114419

DESIGNED BY: WITOLD KLUZA
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SUBMITTED BY: JOHN GROBOWSKI, P.E.
FILE NAME: 114419_CS103.dgn

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CHICAGO DISTRICT
231 SOUTH LASALLE STREET, SUITE 1500
CHICAGO, ILLINOIS

CHICAGO HARBOR AND LOCK
NORTH PIER REPAIR
CHICAGO, ILLINOIS

SITE PLAN

SHEET ID
CS103

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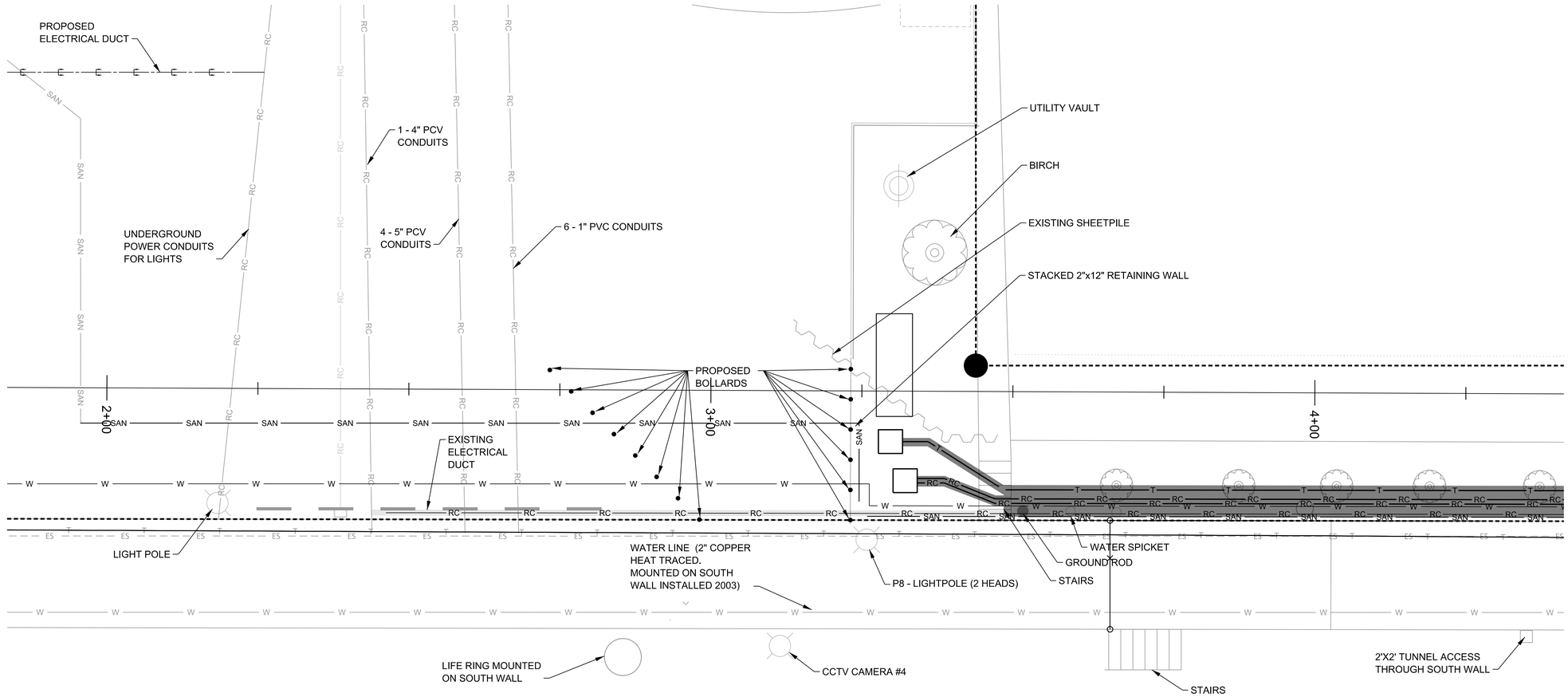
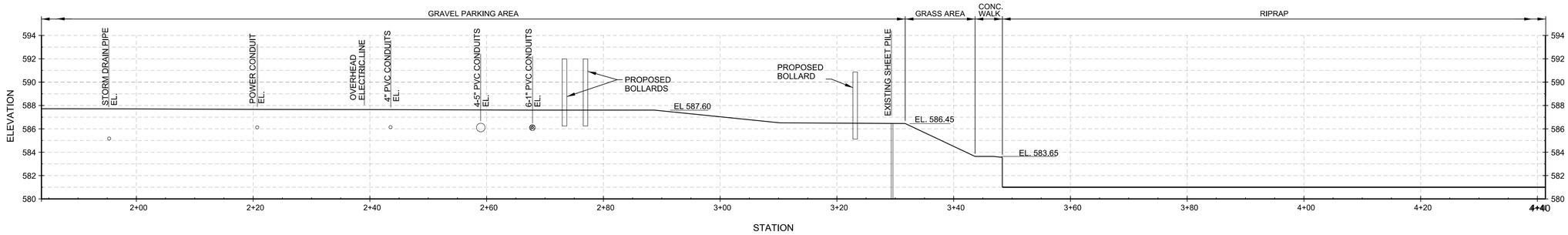



C1 SITE PLAN

SCALE: 1" = 10'




A1 PROFILE

SCALE: HORIZONTAL 1" = 10' | VERTICAL 1" = 5'

0 10' 20' 0 5' 10'

US Army Corps of Engineers®

| MARK | DESCRIPTION | DATE |
|---|---|---|

DESIGNED BY: WITOLD KLUZA
DRAWN BY:
D. BANKHEAD
CHECKED BY:
ISSUE DATE: DEC 2017
SOLICITATION NO.:
CONTRACT NO.:
PROJECT CODE: 114419
SUBMITTED BY: JOHN GROBELNY, P.E.
SIZE: ANSI D
FILE NAME: 114419_CS104.dgn

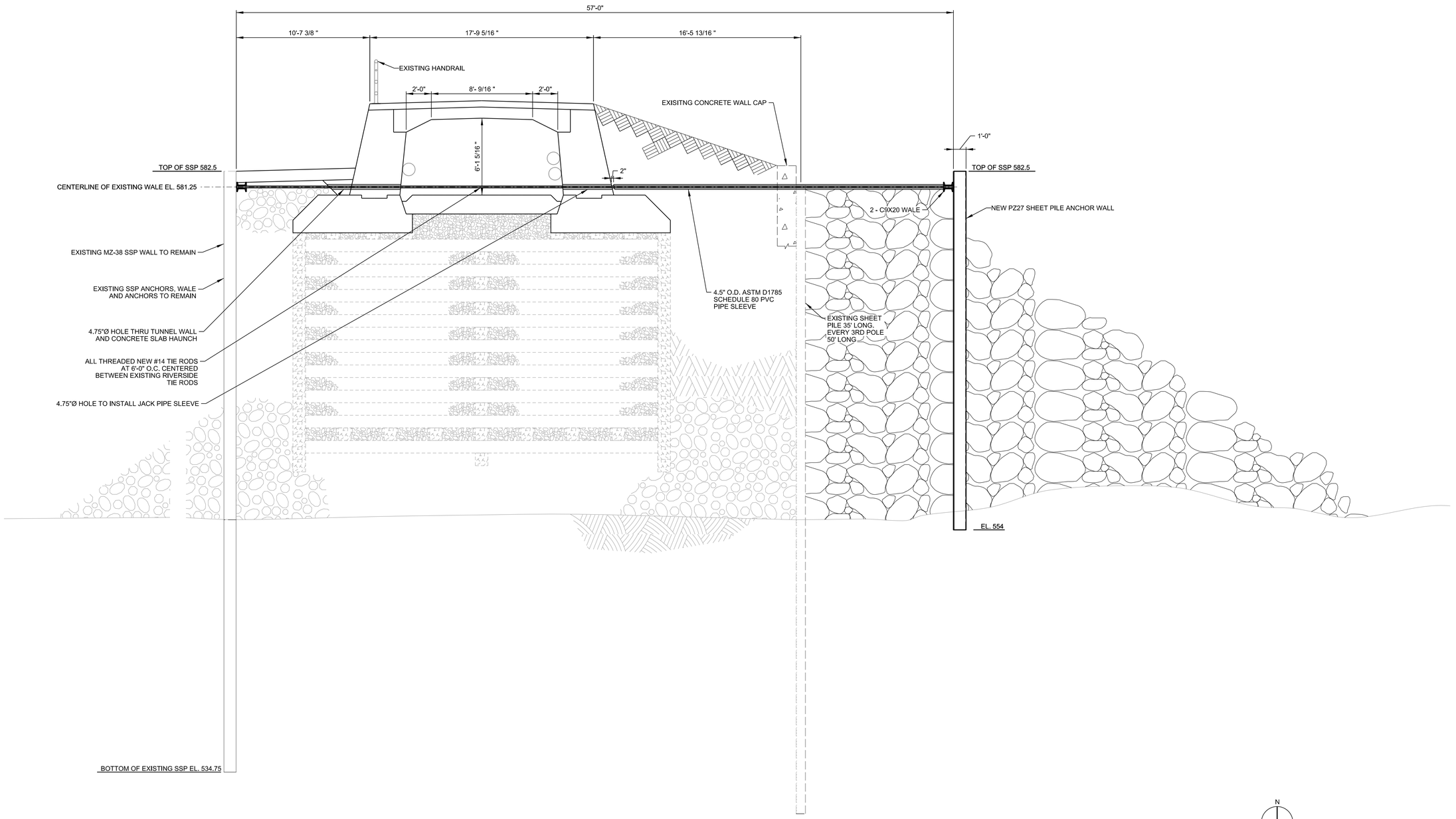
U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 SOUTH LASALLE STREET, SUITE 1500
CHICAGO, ILLINOIS

CHICAGO HARBOR AND LOCK
NORTH PIER REPAIR
CHICAGO, ILLINOIS

PLAN AND PROFILE

SHEET ID

CS104




X#
X-###
A1

## TYPICAL CROSS SECTION

SCALE: 1/4" = 1'

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| MARK | DESCRIPTION | DATE |
|---|---|---|

ISSUE DATE: DEC 2017
SOLICITATION NO.:
CONTRACT NO.:
PROJECT ID: 114419
DESIGNED BY: DAVID FORCE
DRAWN BY: KPC
CHECKED BY: MK
SUBMITTED BY: MICHAEL KINLEY, PE
SIZE: ANSI D
FILE NAME: 114419_S-301.dgn

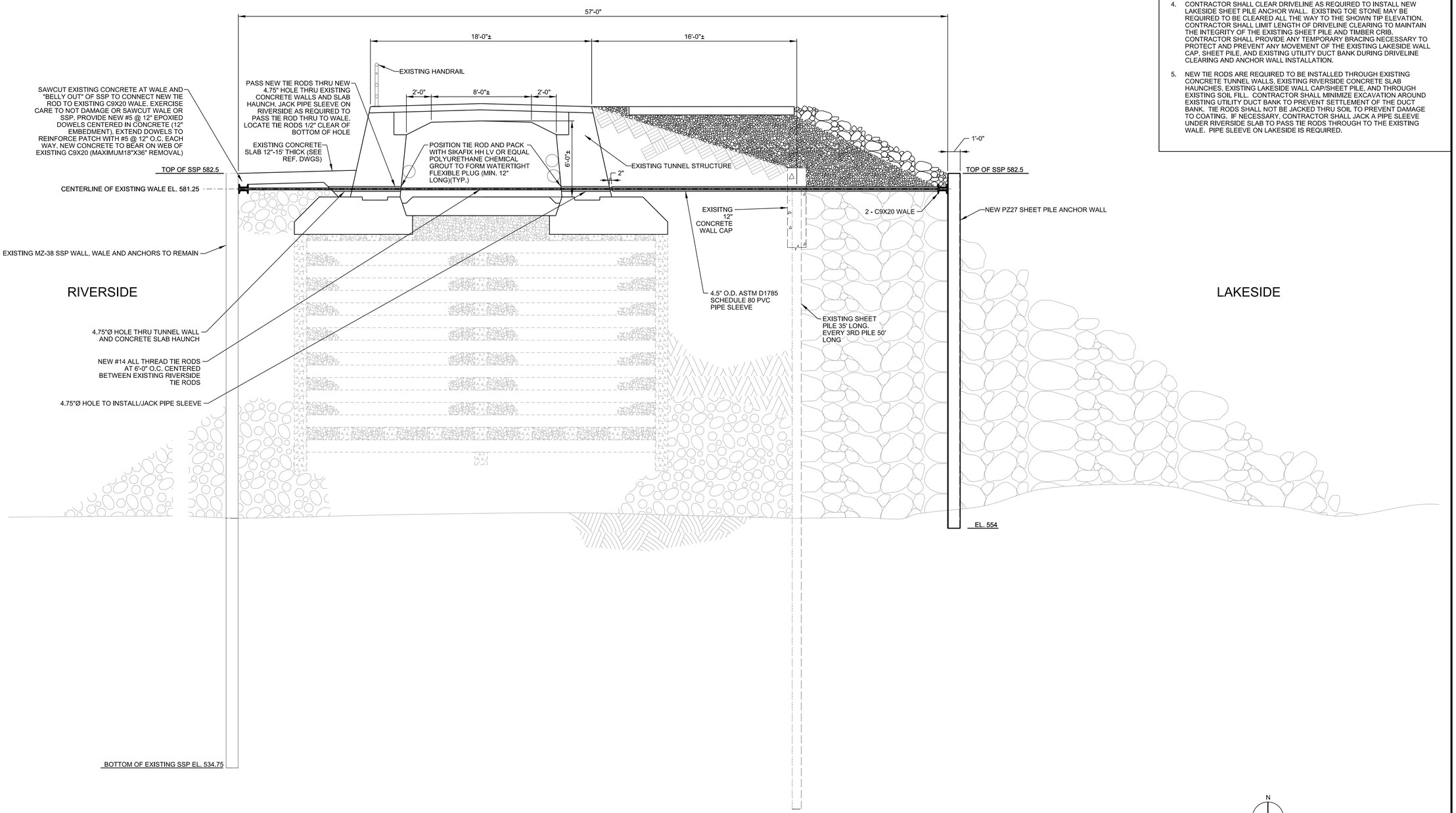
U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

CHICAGO LOCK
NORTH PIER REPAIRS
CHICAGO, ILLINOIS

TYPICAL CROSS SECTION

SHEET ID

S-301




## GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO START OF WORK INCLUDING ALL DIMENSIONS SHOWN IN REFERENCE DRAWINGS.
2. CENTERLINE ELEVATION OF EXISTING WALE SHALL BE VERIFIED PRIOR TO DRILLING HOLES THRU EXISTING TUNNEL CROSS SECTION AND INSTALLATION OF NEW SHEET PILE ANCHOR WALL AND WALE. ELEVATION OF EXISTING WALE MAY VARY ALONG THE LENGTH OF THE EXISTING SHEET PILE WALL. NEW WALE ON NEW ANCHOR WALL SHALL BE ADJUSTED TO MATCH ELEVATION OF EXISTING WALE ON EXISTING RIVERSIDE SHEET PILE WALL. CENTERLINES OF HOLES TO BE DRILLED THRU THE EXISTING TUNNEL WALLS SHALL MATCH THE CENTERLINE OF THE EXISTING WALE.
3. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT INTEGRITY OF EXISTING STRUCTURES TO REMAIN.
4. CONTRACTOR SHALL CLEAR DRIVELINE AS REQUIRED TO INSTALL NEW LAKESIDE SHEET PILE ANCHOR WALL. EXISTING TOE STONE MAY BE REQUIRED TO BE CLEARED ALL THE WAY TO THE SHOWN TIP ELEVATION. CONTRACTOR SHALL LIMIT LENGTH OF DRIVELINE CLEARING TO MAINTAIN THE INTEGRITY OF THE EXISTING SHEET PILE AND TIMBER CRIB. CONTRACTOR SHALL PROVIDE ANY TEMPORARY BRACING NECESSARY TO PROTECT AND PREVENT ANY MOVEMENT OF THE EXISTING LAKESIDE WALL CAP, SHEET PILE, AND EXISTING UTILITY DUCT BANK DURING DRIVELINE CLEARING AND ANCHOR WALL INSTALLATION.
5. NEW TIE RODS ARE REQUIRED TO BE INSTALLED THROUGH EXISTING CONCRETE TUNNEL WALLS, EXISTING RIVERSIDE CONCRETE SLAB HAUNCHES, EXISTING LAKESIDE WALL CAP/SHEET PILE, AND THROUGH EXISTING SOIL FILL. CONTRACTOR SHALL MINIMIZE EXCAVATION AROUND EXISTING UTILITY DUCT BANK TO PREVENT SETTLEMENT OF THE DUCT BANK. TIE RODS SHALL NOT BE JACKED THRU SOIL TO PREVENT DAMAGE TO COATING. IF NECESSARY, CONTRACTOR SHALL JACK A PIPE SLEEVE UNDER RIVERSIDE SLAB TO PASS TIE RODS THROUGH TO THE EXISTING WALE. PIPE SLEEVE ON LAKESIDE IS REQUIRED.

X# / X-### A1 TYPICAL CROSS SECTION
SCALE: 1/4" = 1'

...\40 - Geospatial Data\Drawings\CAD_BIM\07_Struc\Drawings\TYPICAL CROSS SECTION
10:22:44 AM 12/11/2017 PD: AEC_pdf.pltcfg DS: AEC_Screen.dscript.dscript

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|---|---|---|

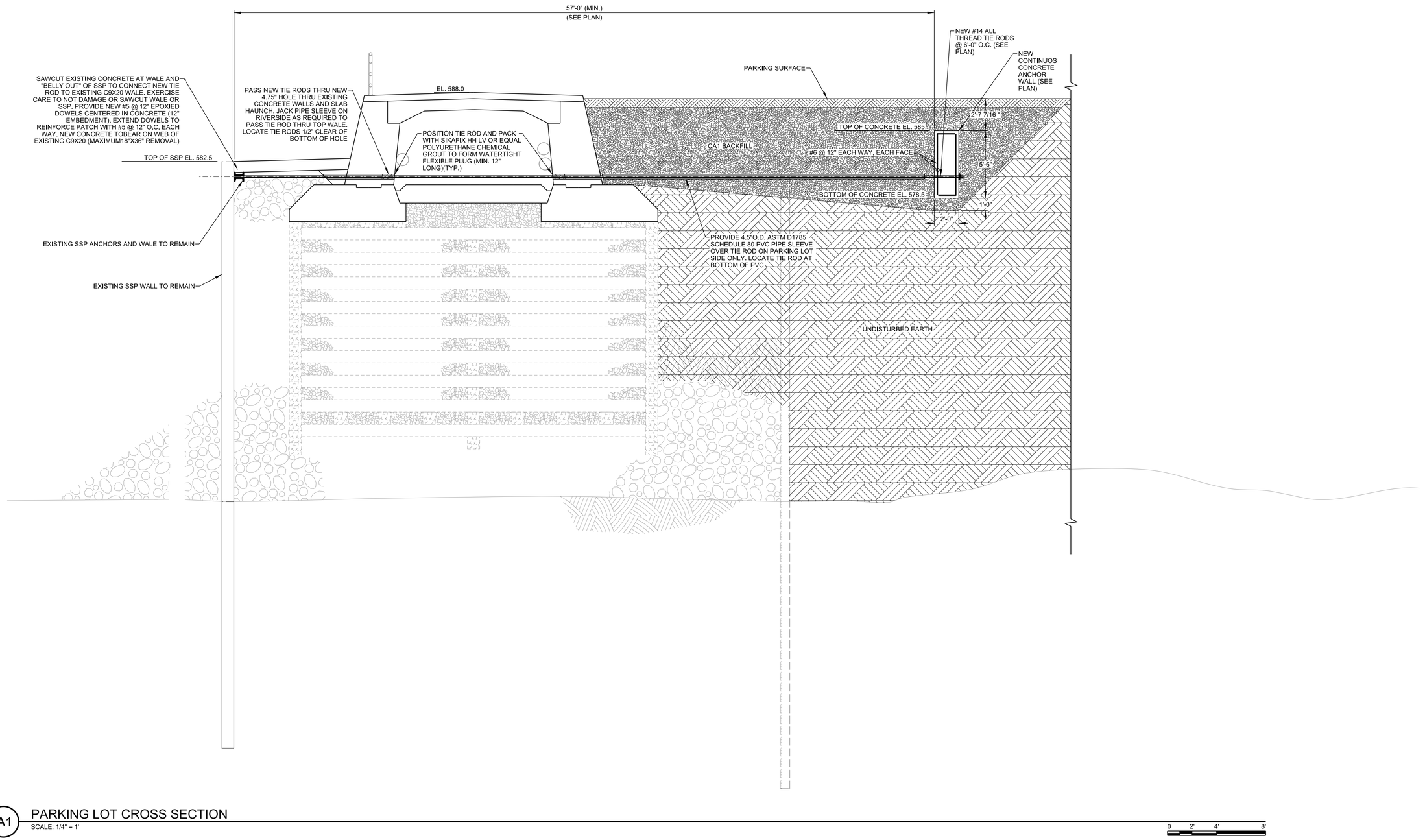
DESIGNED BY: DAVID FORCE
DRAWN BY: KPC
CHECKED BY: MK
SUBMITTED BY: MICHAEL KRUEGER, PE
SIZE: ANSI D
ISSUE DATE: DEC 2017
SOLICITATION NO.:
CONTRACT NO.:
PROJECT ID: 114419
FILE NAME: 114419_S-301.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

CHICAGO LOCK
NORTH PIER REPAIRS
CHICAGO, ILLINOIS

TYPICAL CROSS SECTION

SHEET ID
S-301




X# / X-### A1 PARKING LOT CROSS SECTION

SCALE: 1/4" = 1'

0 2' 4' 8'

...\Projects\AEC_WS-001_ProjectTemplate\AEC_WS-001_ProjectTemplate\CAD_BIM_Sheets\PARKING LOT CROSS SECTION
5:14:20 PM 12/8/2017 PD: 4500ps_Roll1_bw_4.pltcfg DS: AEC_Screen.dscript.dscript

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| MARK | DESCRIPTION | DATE |
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DESIGNED BY: DAVID FORCE
DRAWN BY: KPC
CHECKED BY: MK
SUBMITTED BY: MICHAEL KRUEGER, PE
SIZE: ANSI D
ISSUE DATE: DEC 2017
SOLICITATION NO.:
CONTRACT NO.:
PROJECT ID: 114419
FILE NAME: 114419_S-303.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
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CHICAGO LOCK
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CHICAGO, ILLINOIS

PARKING LOT CROSS SECTION

SHEET ID

S-303