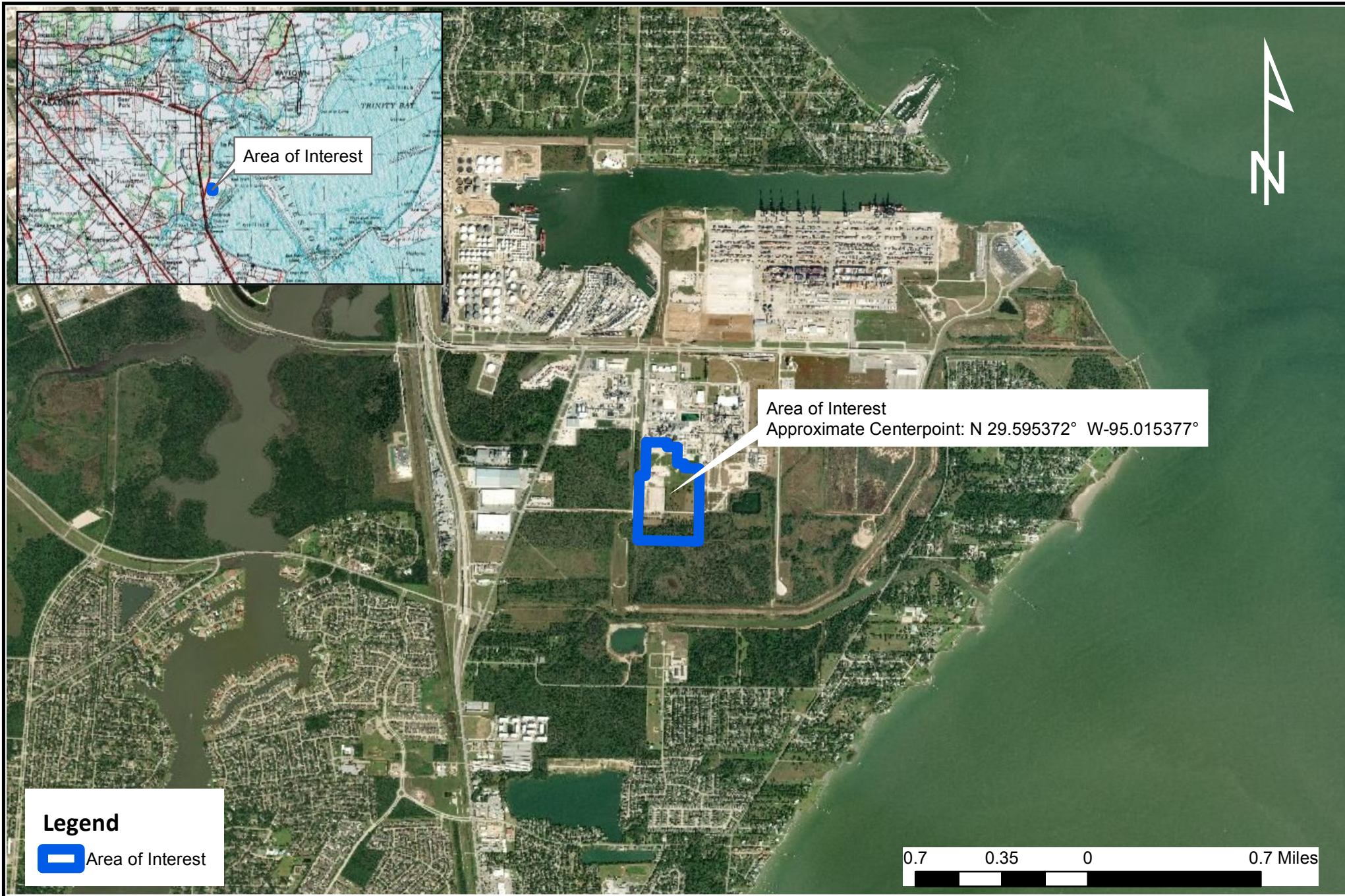
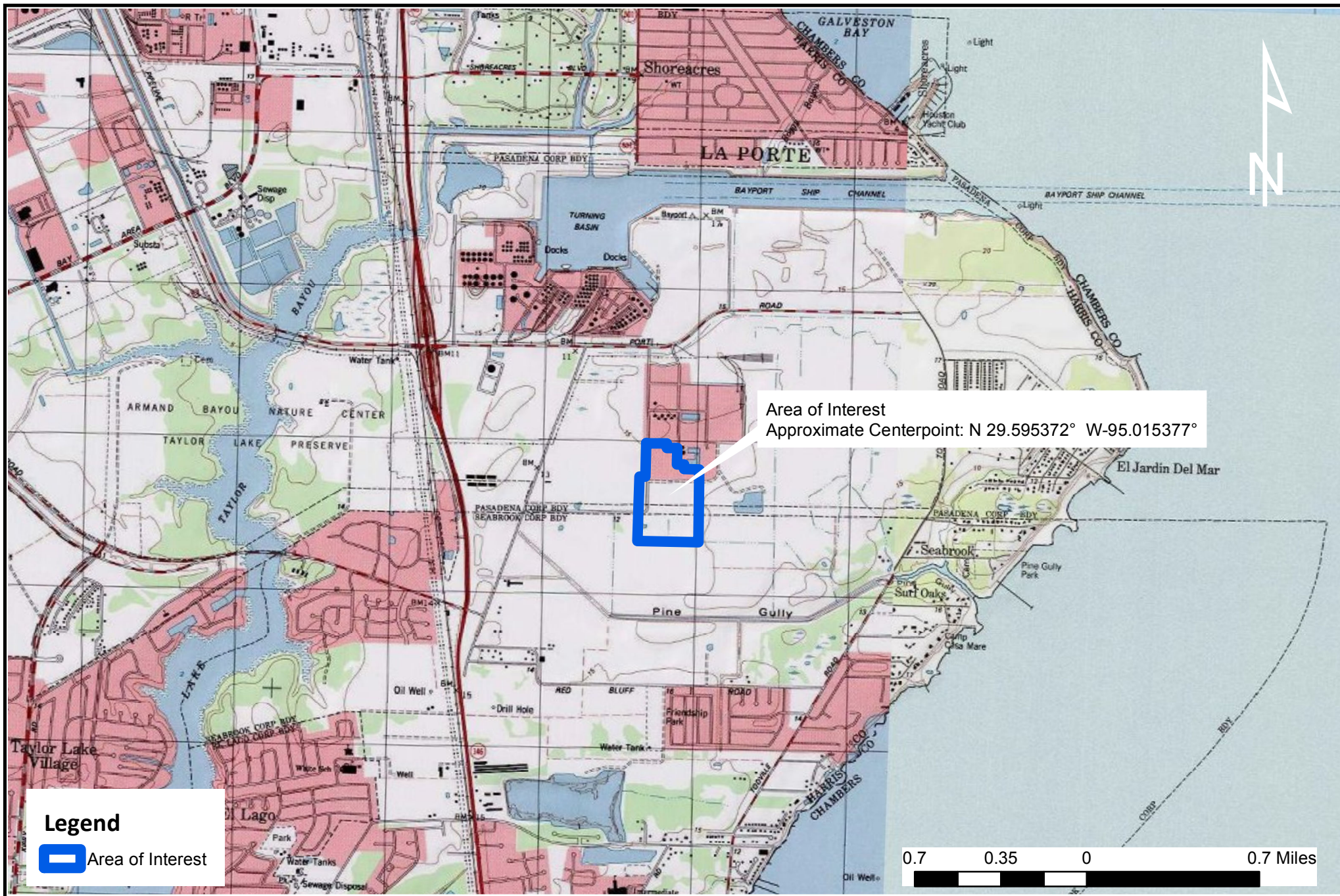




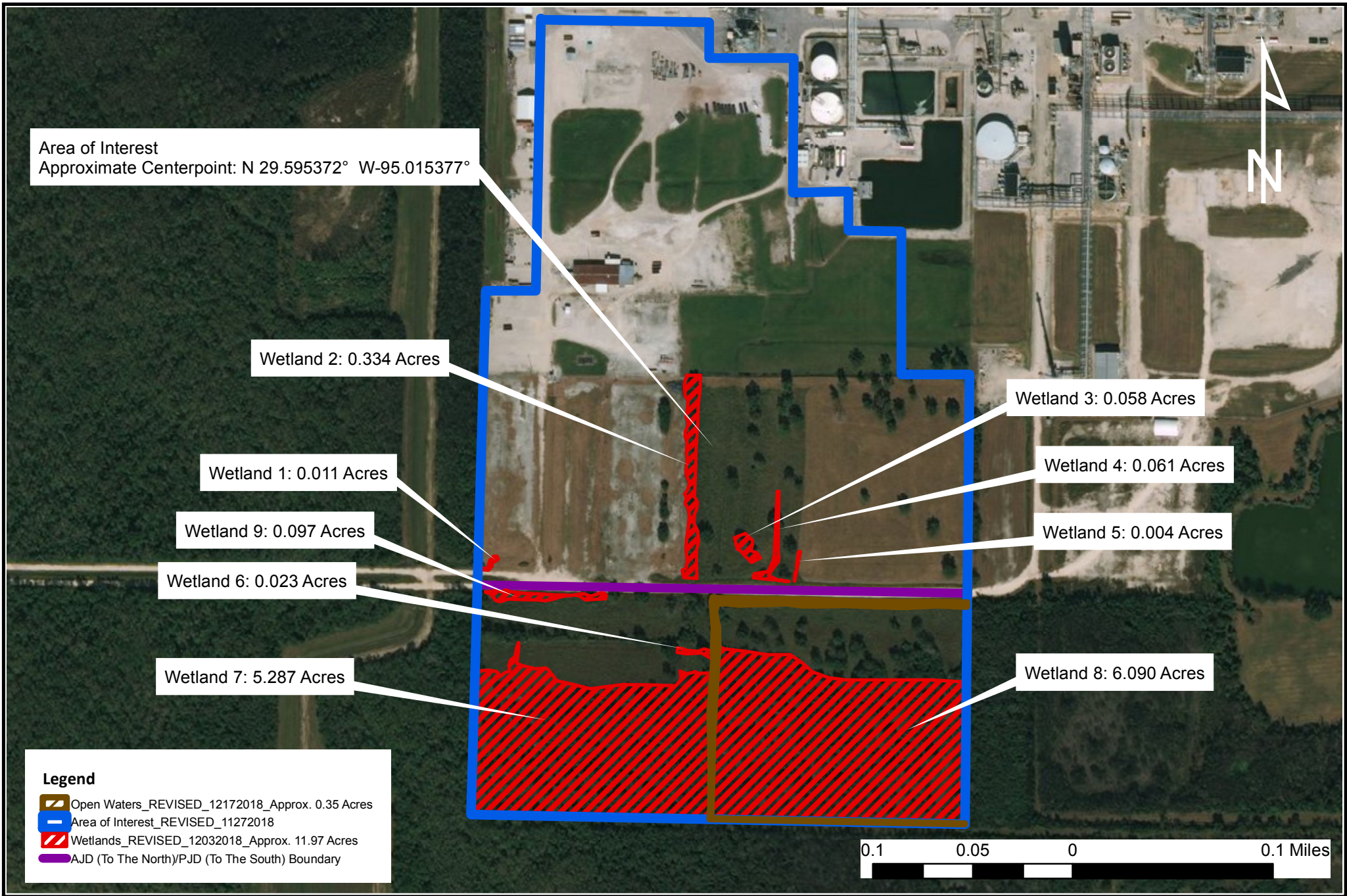
ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

Figure 1: Vicinity Map
INEOS Bayport Facility ESPN Project

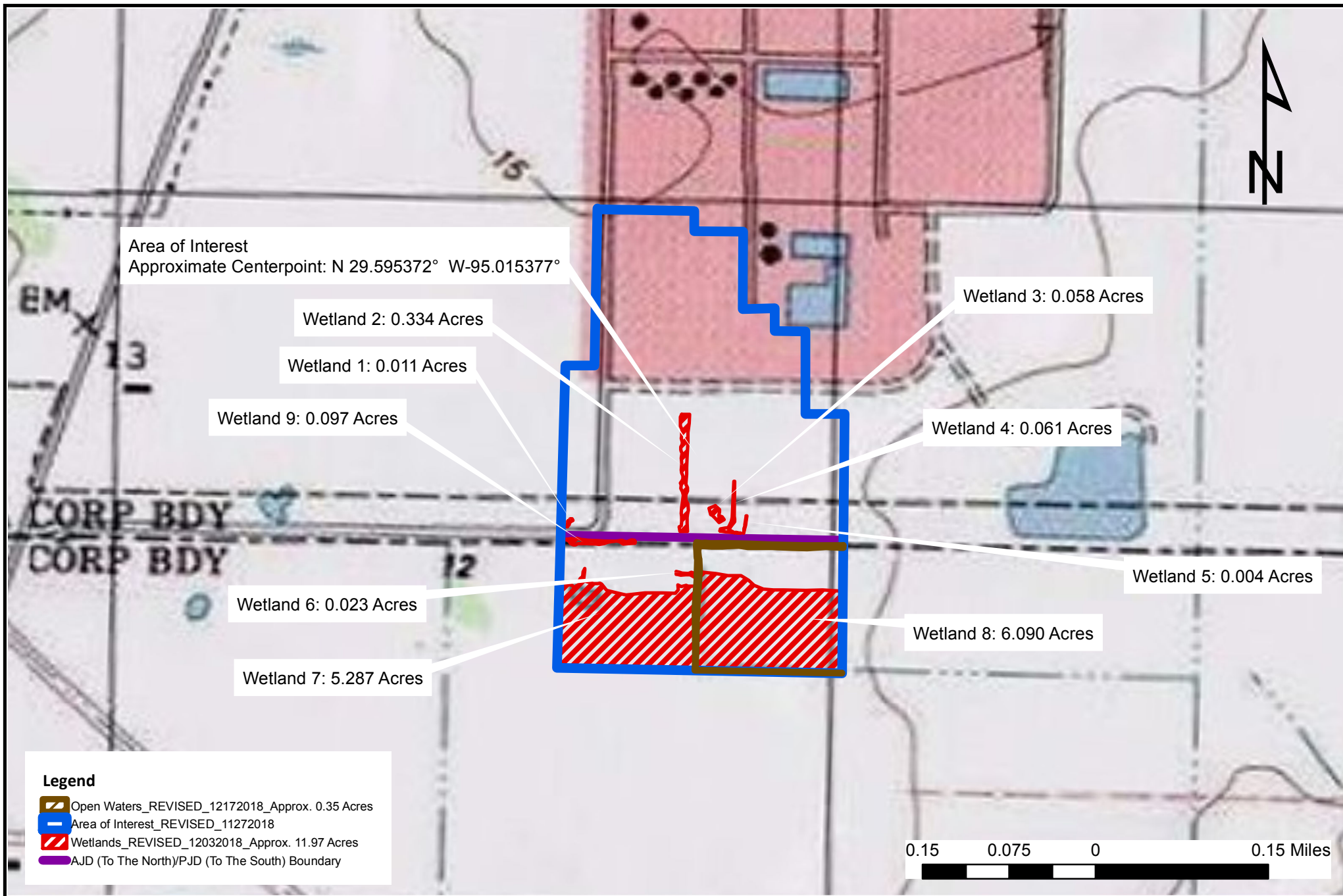


ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

**Figure 2: Vicinity Map- Topographic
INEOS Bayport Facility ESPN Project**

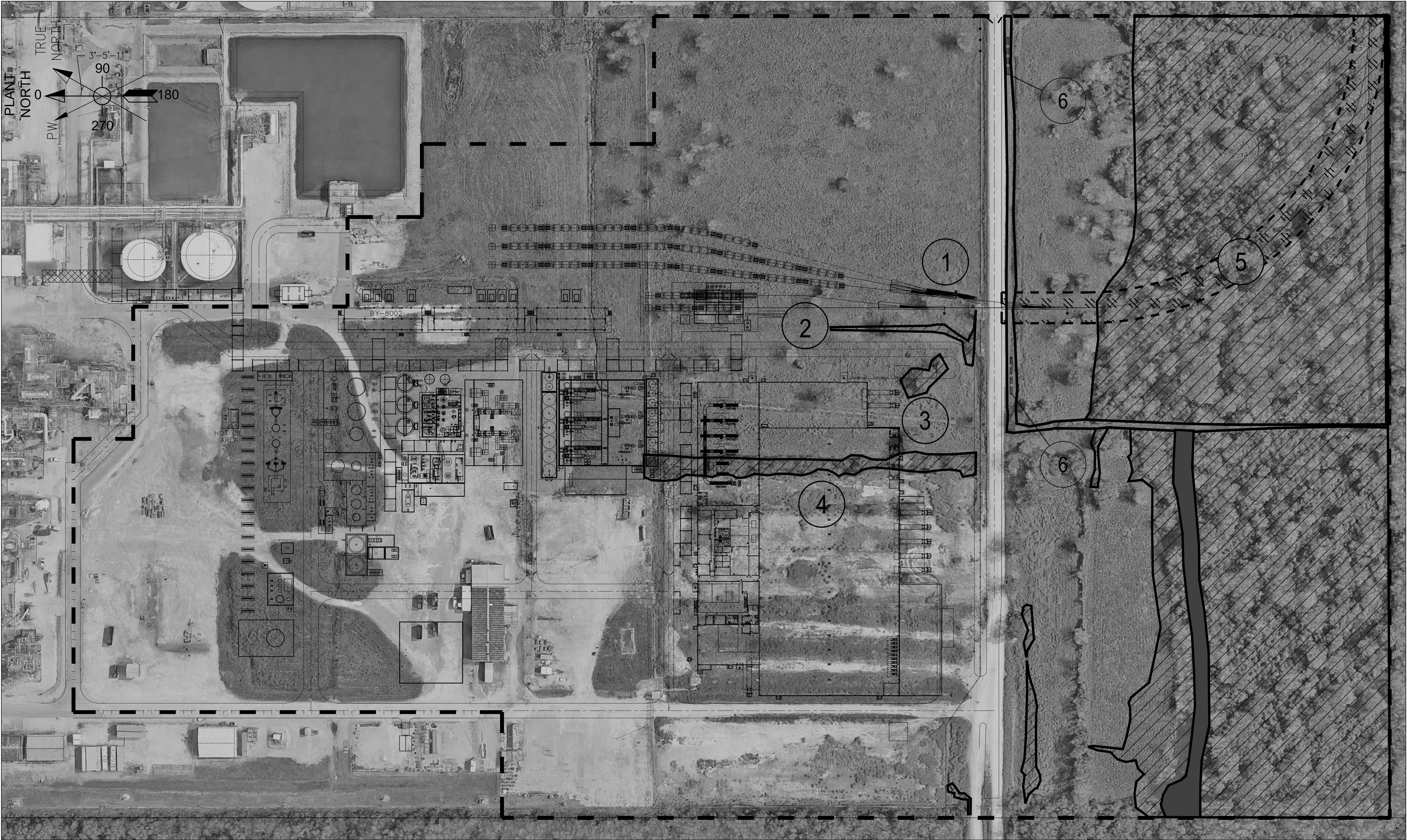


**Figure 3: Wetlands and Waterbodies Map_Revised
INEOS Bayport Facility ESPN Project**



**Figure 4: Wetlands and Waterbodies Map_Topo_ Revised
INEOS Bayport Facility ESPN Project**

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SEE WETLANDS PROJECT IMPACT DRAWING FOR WETLANDS AREA FILL INFORMATION.

ASA WETLAND SITE PLAN

LEGEND

FUTURE

NEW CONSTRUCTION

WATERS OF THE US

AREA OF INTEREST

WETLANDS

50' CLEARANCE @ RAILROAD

C	01/16/2019	ISSUED FOR USE	TN	HC	DS
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS
A	07/24/2018	WETLAND PERMIT DRAWING	RW		
REV	DATE	DESCRIPTION	BY	CHK	APP CLIENT

WorleyParsons
resources & energy

INEOS
STYROLUTION

CLIENT/PROJECT TITLE

ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)

PROJECT NO.
208005-00071
WP#: 208005-00071-00-CI-DSK-0002

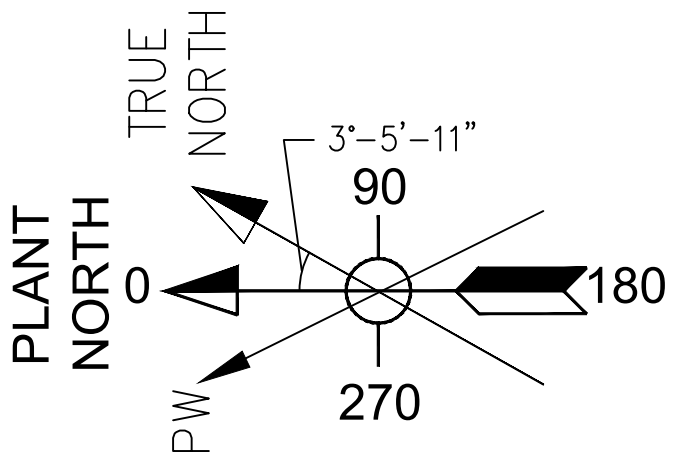
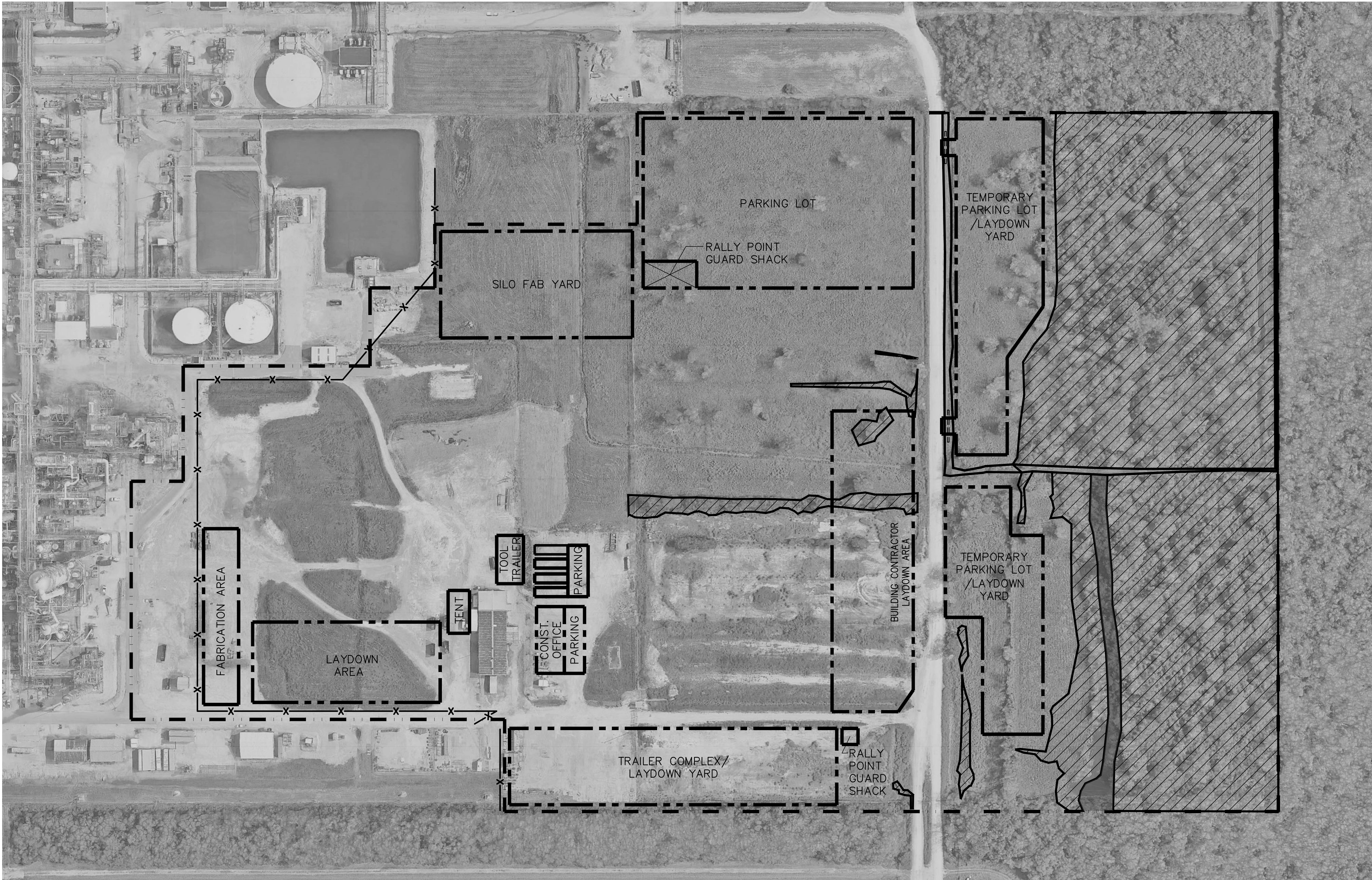
ASA PLANT
AREA X
WETLAND SITE PLAN LOCATIONS
WETLAND PROJECT IMPACT

SCALE
1:1000

DWG. NO.
208005-00071-00-CI-DSK-0002

REVISION
C

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LEGEND			
--- TEMPORARY	WATERS OF THE US	WETLANDS	
- - - AREA OF INTEREST	— X — TEMPORARY FENCE		
	— - - LIMITS OF FAB/LAYDOWN AREA		

ASA WETLAND TEMPORARY SITE PLAN

SCALE: 1/96"=1'-0"

REV	DATE	DESCRIPTION	BY	CHK	APP	CLIENT
C	01/16/2019	ISSUED FOR USE	TN	HC	DS	
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS	
A	07/24/2018	WETLAND PERMIT DRAWING	RW			



WorleyParsons
resources & energy

INEOS
STYROLUTION

CLIENT/PROJECT TITLE
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)

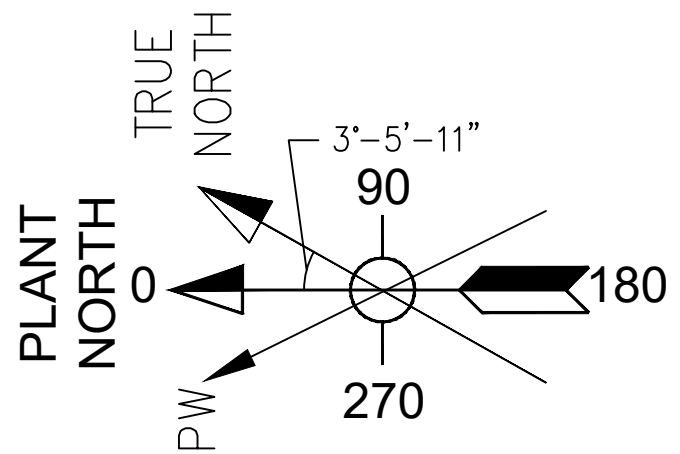
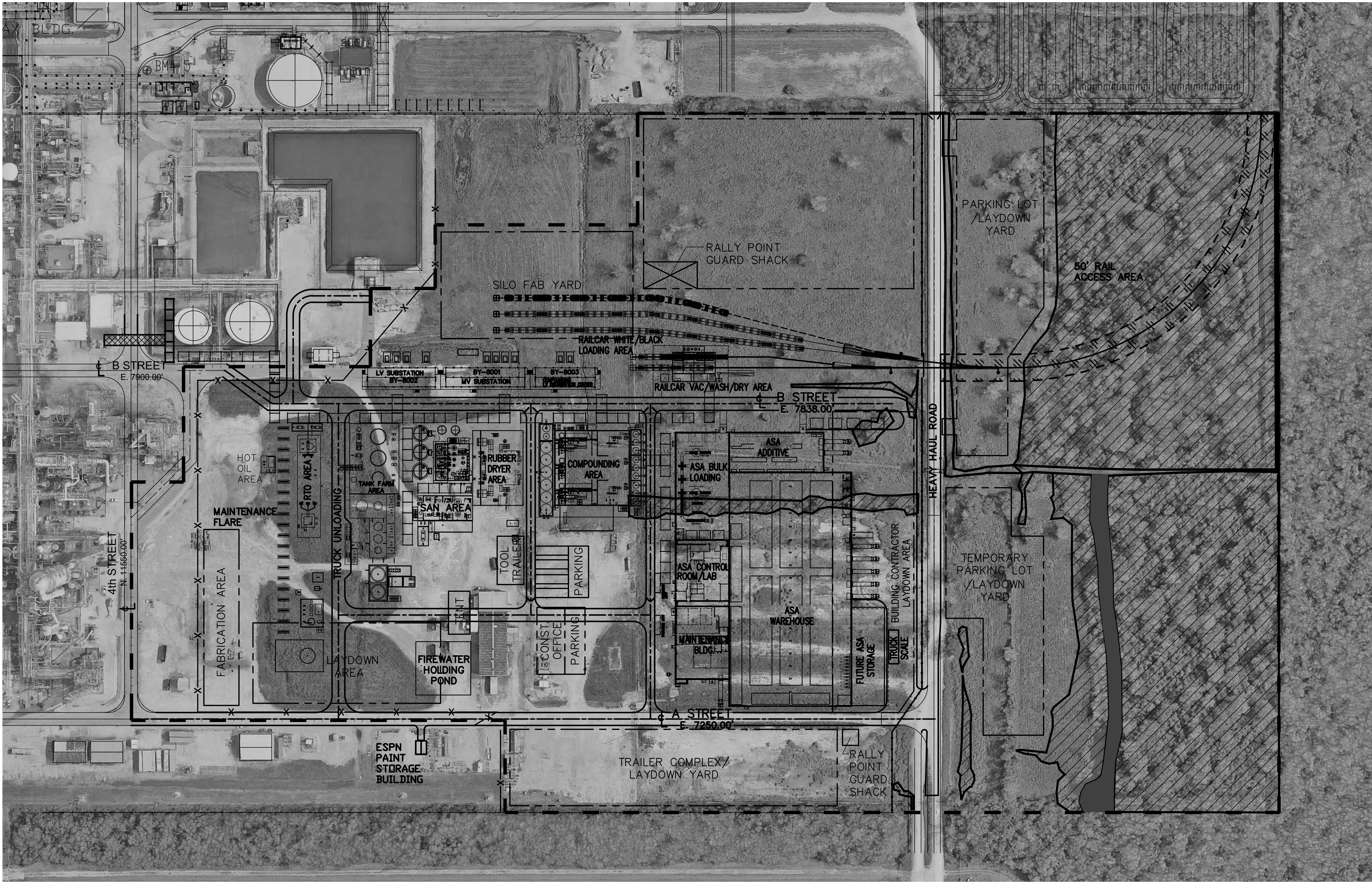
PROJECT NO.
208005-00071
WP#: 208005-00071-00-CI-DSK-0003

ASA PLANT
AREA X
ASA WETLAND TEMP, CONSTRUCTION SITE PLAN
WETLAND PROJECT IMPACT

SCALE
AS NOTED

DWG. NO.	REVISION
208005-00071-00-CI-DSK-0003	C

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ASA WETLAND OVERALL PLANT PLOT PLAN

(NEW, TEMP & EXIST. WETLAND)

SCALE: 1/96"=1'-0"

LEGEND			
--- --	AREA OF INTEREST	--- --	FUTURE
---	NEW CONSTRUCTION	---X---	TEMPORARY FENCE
■	WATERS OF THE US	▨	WETLANDS
		▨▨▨	50' CLEARANCE @ RAILROAD
---	TEMPORARY		

REV	DATE	DESCRIPTION	BY	CHK	APP	CLIENT
C	01/16/2019	ISSUED FOR USE	TN	HC	DS	
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS	
A	07/24/2018	WETLAND PERMIT DRAWING	RW			



INEOS
STYROLUTION

CLIENT/PROJECT TITLE
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)

PROJECT NO.
208005-00071
WP#: 208005-00071-00-CI-DSK-0004

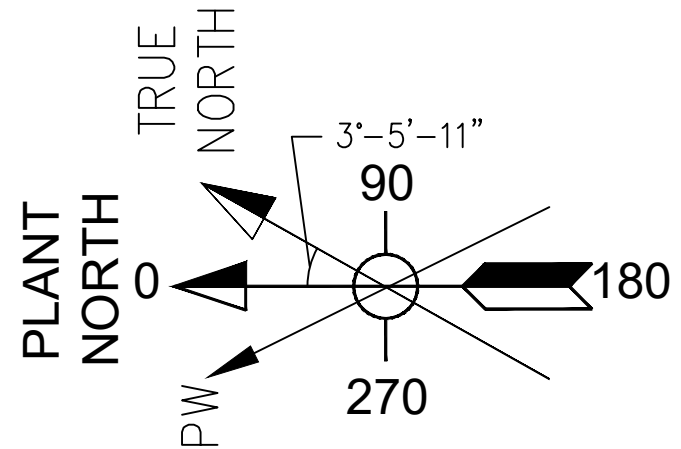
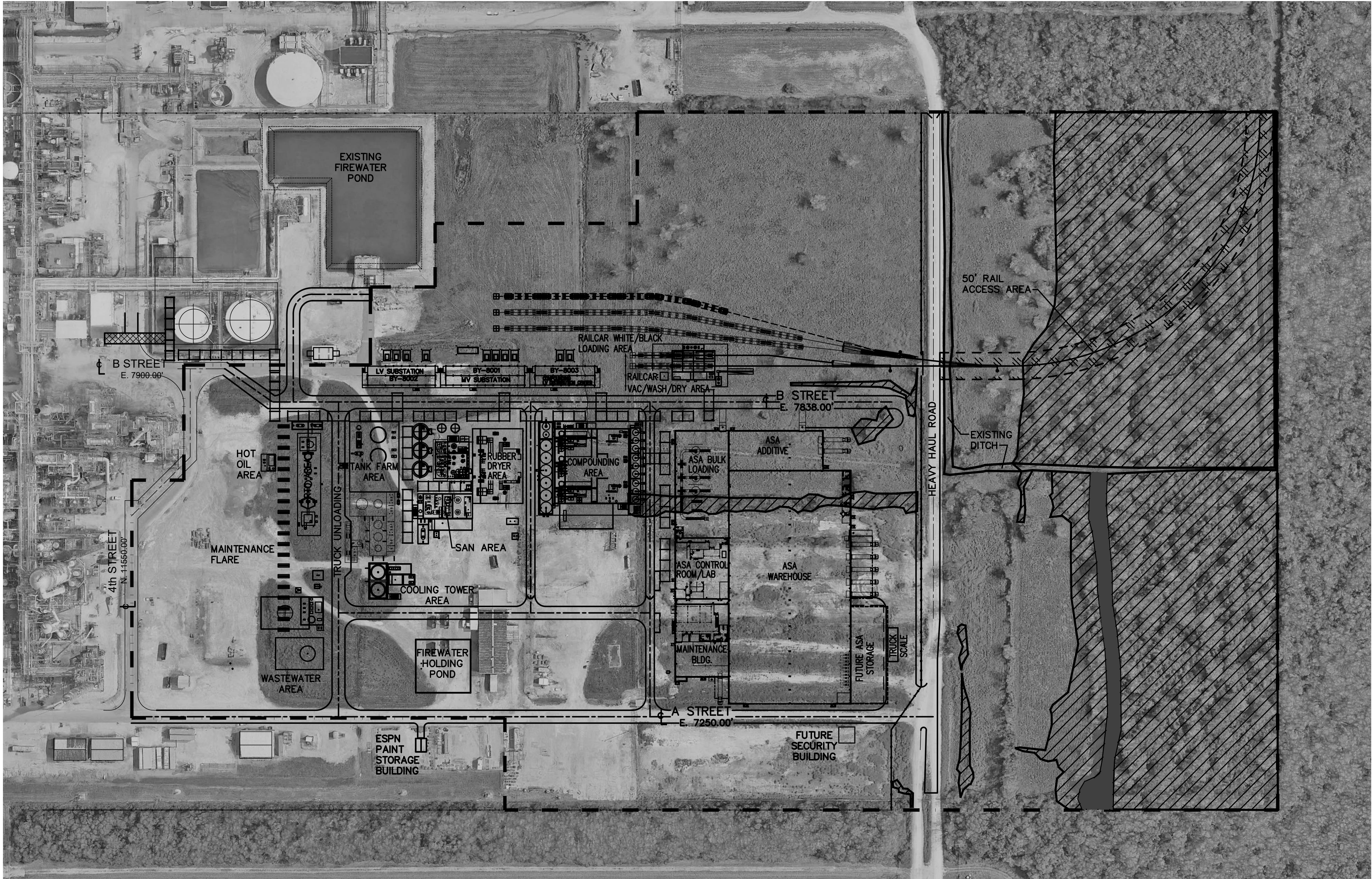
ASA PLANT
AREA X
WETLAND OVERALL PLAN (NEW, TEMP & EXIST.)
WETLAND PROJECT IMPACT

SCALE
AS NOTED

DWG. NO.
208005-00071-00-CI-DSK-0004

REVISION
C

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ASA WETLAND PLANT PLOT PLAN

SCALE: 1/96"=1'-0"

LEGEND			
NEW CONSTRUCTION	WATERS OF THE US	WETLANDS	
AREA OF INTEREST	50' CLEARANCE @ RAILROAD		

REV	DATE	DESCRIPTION	BY	CHK	APP	CLIENT
C	01/16/2019	ISSUED FOR USE	TN	HC	DS	
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS	
A	07/24/2018	WETLAND PERMIT DRAWING	RW			



INEOS
STYROLUTION

CLIENT/PROJECT TITLE
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)

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WP#: 208005-00071-00-CI-DSK-0005

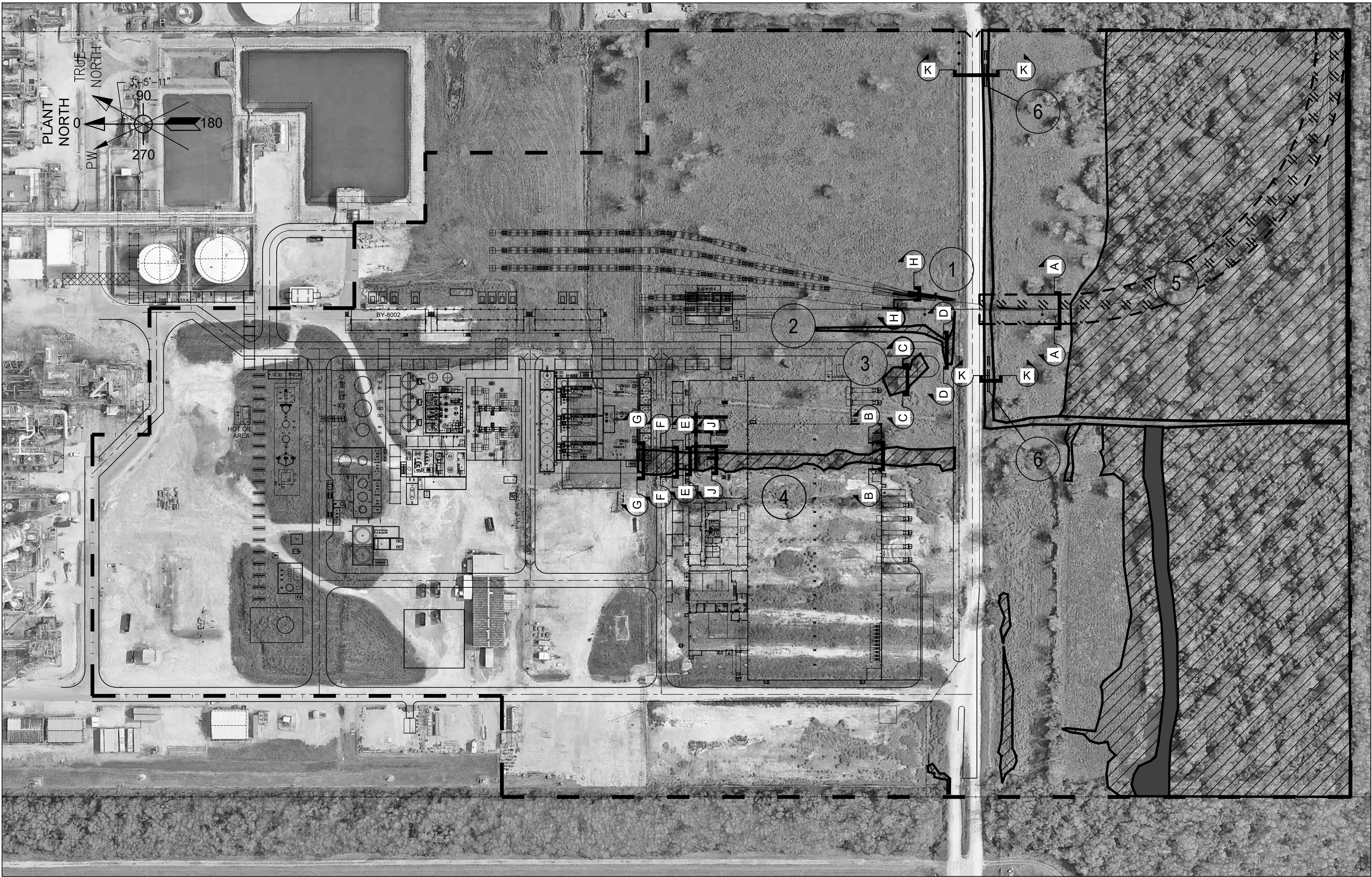
ASA PLANT
AREA X
WETLAND OVERALL PLAN (NEW & EXIST.)
WETLAND PROJECT IMPACT

SCALE
AS NOTED

DWG. NO.	REVISION
208005-00071-00-CI-DSK-0005	C

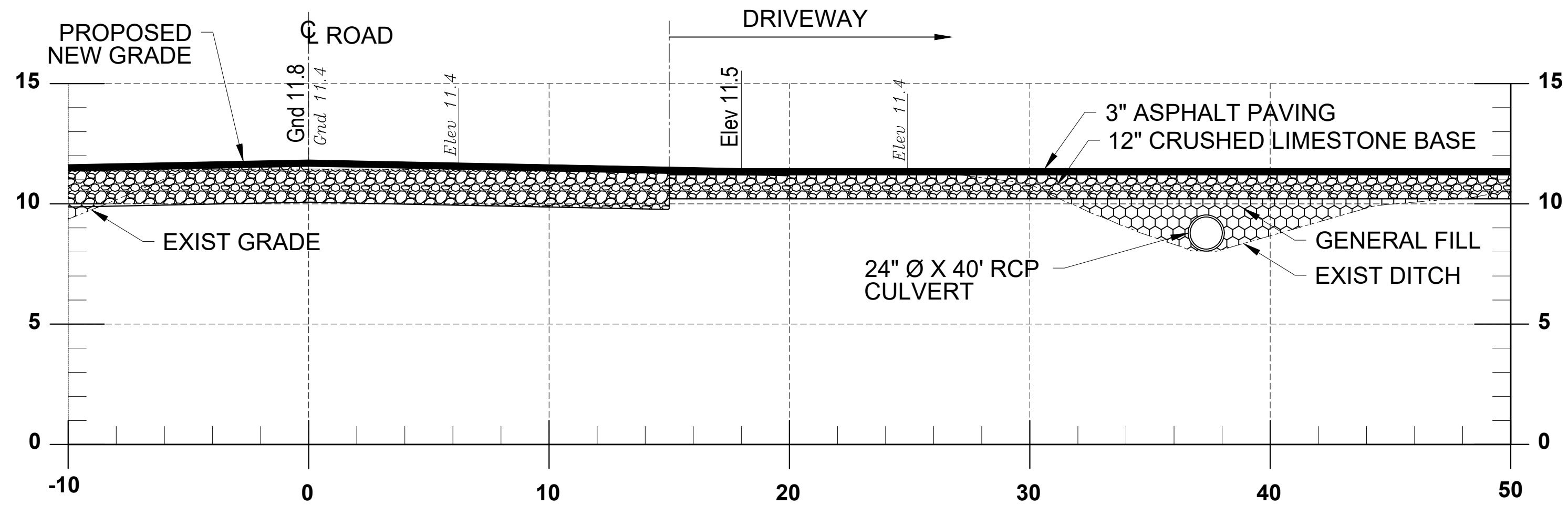
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WETLANDS AREA TO BE FILLED				
ID#	FILL MATERIAL	EST. CUT/FILL VOLUME (CY)	WETLAND BACKFILL (CY)	FILL METHOD
1	COMPACTED STRUCTURAL/LIME TREATED FILL		TO ROUGH GRADE ELEVATION 11' - 97 CY	BACKHOE & BULLDOZER
	WETLAND 24" DEMUCKING	65 CY		
	12" LIME TREATED SUBGRADE	SUBGRADE 32 CY		
	14" COMPACTED BALLAST	SUBBALLAST 37.6 CY		
	15" BALLAST	BALLAST 40 CY		
2	COMPACTED STRUCTURAL/LIME TREATED FILL, CRUSHED LIMESTONE AND ASPHALT		TO ROUGH GRADE ELEVATION 11' - 200 CY	BACKHOE & BULLDOZER
	WETLAND 24" DEMUCKING	133 CY		
	CRUSHED LIMESTONE PAVING			
	CRUSHED STONE	9.72 CY		
	6" STRUCTURAL FILL	19.51 CY		
	5" THICK ASPHALT	11.4 CY		
3	8" CRUSHED LIMESTONE BASE	22.8 CY	TO ROUGH GRADE ELEVATION 11' - 200 CY	BACKHOE & BULLDOZER
	8" STABILIZED SUBGRADE	22.8 CY		
	COMPACTED STRUCTURAL/LIME TREATED FILL, CRUSHED LIMESTONE AND REINFORCED CONCRETE			
	WETLAND 24" DEMUCKING	257 CY		
	CRUSHED LIMESTONE PAVING (3" THICK)			
	CRUSHED STONE	16 CY		
4	6" STRUCTURAL FILL	32 CY	TO ROUGH GRADE ELEVATION 11' - 1500 CY	BACKHOE & BULLDOZER
	FINISH PAVING			
	CONCRETE	43 CY		
	CRUSHED LIMESTONE BASE	33 CY		
	STRUCTURAL FILL SUB BASE	33 CY		
	COMPACTED STRUCTURAL/LIME TREATED FILL, CRUSHED LIMESTONE, ASPHALT AND REINFORCED CONCRETE			
5	WETLAND 24" DEMUCKING	1244 CY	TO ROUGH GRADE ELEVATION 11' - 8.5' 13550 CY	BACKHOE & BULLDOZER
	CRUSHED LIMESTONE PAVING (3" THICK)			
	CRUSHED STONE	19 CY		
	6" STRUCTURAL FILL	42 CY		
	FINISH PAVING			
	CONCRETE	110 CY		
6	CRUSHED LIMESTONE BASE	80 CY	NONE	BACKHOE & BULLDOZER
	STRUCTURAL FILL SUB BASE	80 CY		
	BUILDING FOUNDATION (ASSUME 3" MAT FDN.)			
	CONCRETE	1072 CY		
	ASPHALT ROAD			
	ASPHALT	10.5 CY		
7	8" CRUSHED LIMESTONE BASE	21 CY	TO ROUGH GRADE ELEVATION 11' - 8.5' 13550 CY	BACKHOE & BULLDOZER
	8" STABILIZED SUBGRADE	21 CY		
	COMPACTED STRUCTURAL/LIME TREATED FILL AND CRUSHED LIMESTONE			
	STRIPPING/GRUBBING (CUT)	4926 CY		
	50' RAILROAD ACCESS			
8	ITEMS ABOVE ROUGH GRADE		NONE	BACKHOE & BULLDOZER
	20" BALLAST	3290 CY		
	14" COMPACTED SUBBALLAST	3314 CY		
	12" LIME TREATED SUBGRADE	3251 CY		
	ASPHALT FOR TEMPORARY PARKING ACCESS	22 CY (FOR 2 DRIVEWAYS)		
9	COMPACTED CRUSHED CONCRETE FILL	90 CY (FOR 2 DRIVEWAYS)	NONE	BACKHOE & BULLDOZER
	(2) 24"Ø RCP CULVERT	80.00' (FOR 2 DRIVEWAYS)		
	NATURAL COMPETENT SOIL OR GENERAL FILL	36 CY (FOR 2 DRIVEWAYS)		



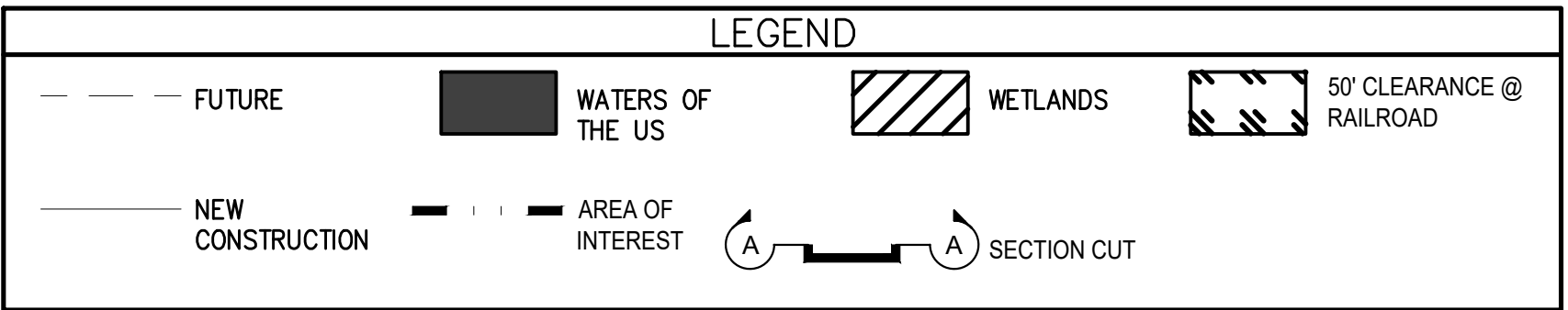
ASA WETLAND SITE PLAN

SCALE: 1"=120'-0"



SECTION "K" - CULVERT FOR PARKING LOT ACCESS

SCALE: 1"=50'
(SIMILAR 2 PLACES)



REV	DATE	DESCRIPTION	BY	CHK	APP	CLIENT
C	01/16/2019	ISSUED FOR USE	TN	HC	DS	
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS	
A	07/24/2018	WETLAND PERMIT DRAWING	RW			



INEOS
STYROLUTION

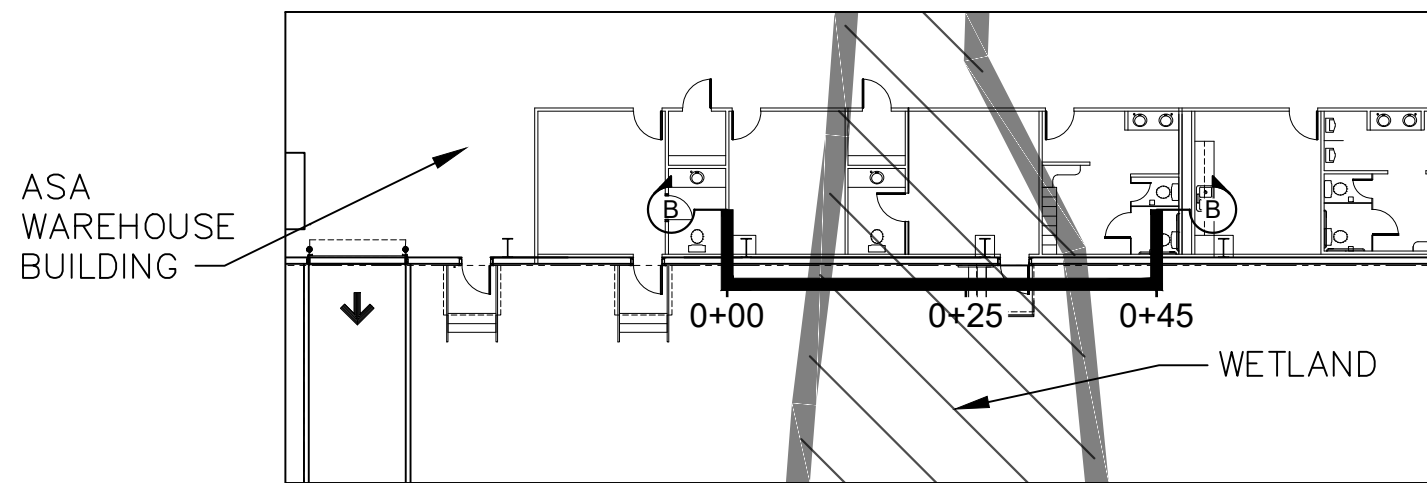
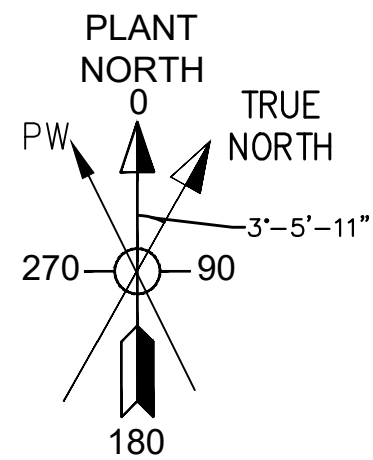
CLIENT/PROJECT TITLE
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)

PROJECT NO.
208005-00071
WP#: 208005-00071-00-CI-DSK-0006

ASA PLANT
AREA X
SITE PLAN /SECTION LOCATIONS
WETLAND PROJECT IMPACT

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AS NOTED	208005-00071-00-CI-DSK-0006	C

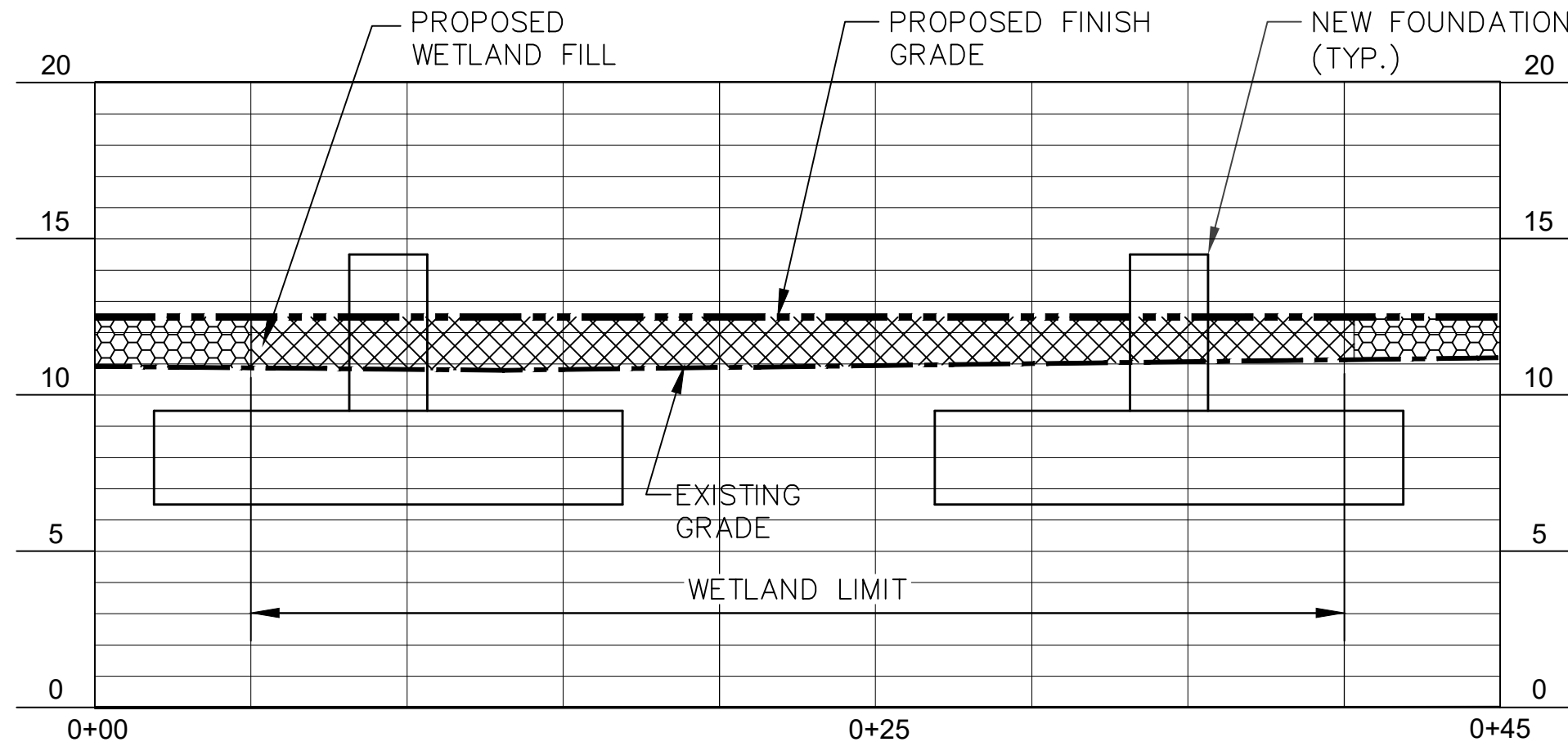
B 17 x 11



- | | |
|---|------------------------------------|
|  | EXISTING GRADE
ELEVATION |
|  | PROPOSED FINISH
GRADE ELEVATION |
|  | WETLAND AREA |
|  | WETLAND AREA
GENERAL FILL |
|  | GENERAL FILL |

PLAN VIEW - WETLAND IMPACT

SCALE 1"=20'



SECTION 'B' WETLAND IMPACT

SCALE: H:1"=5' V: 1"=1'

C	01/16/2019	ISSUED FOR USE	TN	HC	DS	
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	RW	HC	DS	
A	07/24/2018	WETLAND PERMIT DRAWING	RW			
REV	DATE	DESCRIPTION	BY	CHK	APP	CLIENT



INEOS
STYROLUTION

CLIENT/PROJECT TITLE
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)

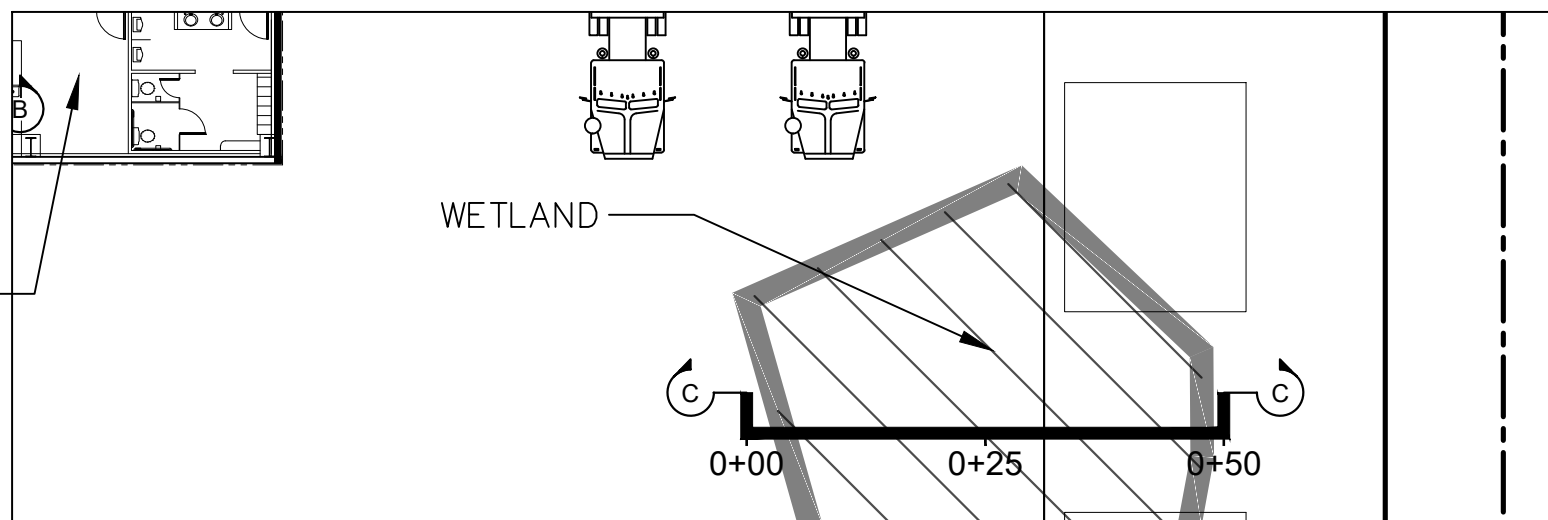
PROJECT NO.
208005-00071
WP#: 208005-00071-00-CI-DSK-0008

ASA PLANT
AREA X
SECTION 'B'
WETLAND PROJECT IMPACT

SCALE AS NOTED

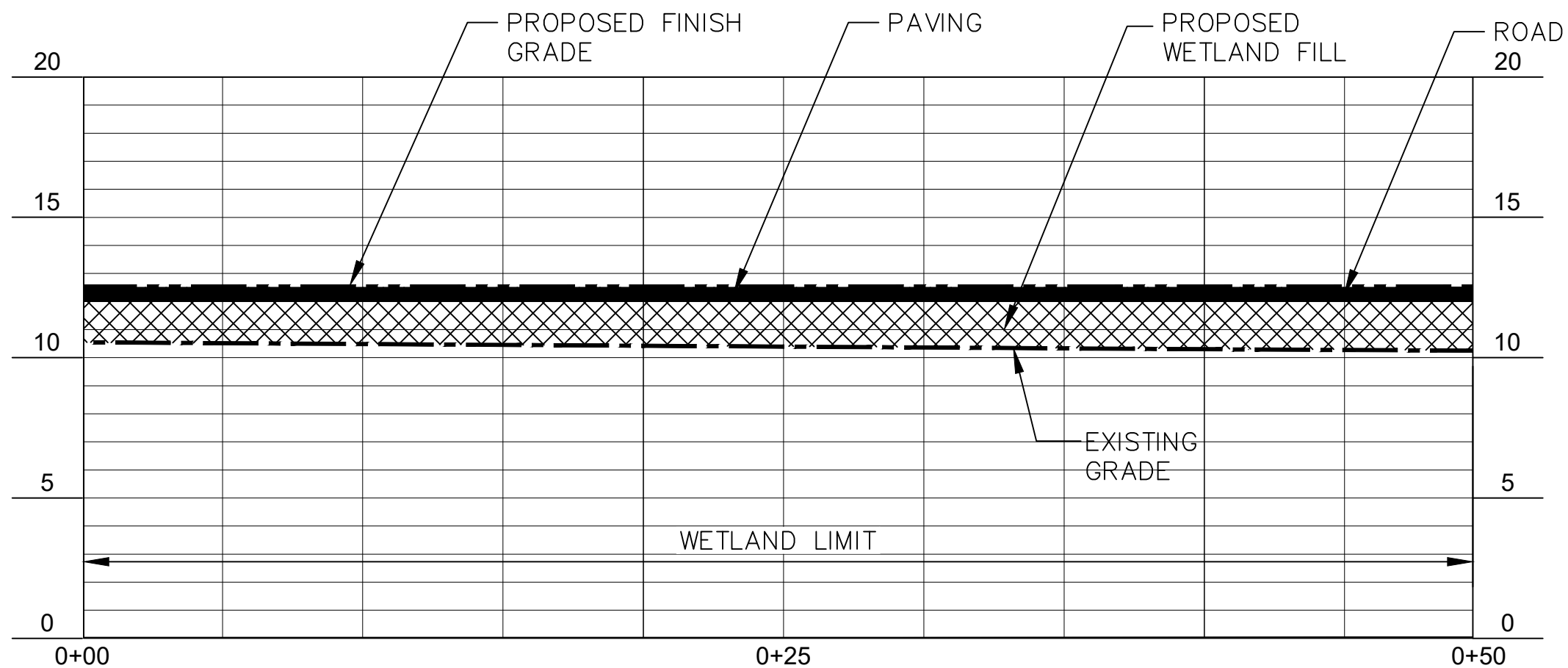
DWG. NO.	208005-00071-00-CI-DSK-0008	REVISION	C
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17 x 11



SCALE 1"=20'

- | | |
|---|---------------------------------|
|  | EXISTING GRADE ELEVATION |
|  | PROPOSED FINISH GRADE ELEVATION |
|  | WETLAND AREA |
|  | WETLAND AREA GENERAL FILL |
|  | GENERAL FILL |
|  | PAVING |



SCALE: H:1"=5' V: 1"=1'

C	01/16/2019	ISSUED FOR USE		TN	HC	DS
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT		TN	HC	DS
A	07/24/2018	WETLAND PERMIT DRAWING		RW		
REV	DATE	DESCRIPTION		BY	CHK	APP CLERK



INEOS
STYROLUTION

CLIENT/PROJECT TITLE

ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)

PROJECT NO.
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WP#: 208005-00071-00-CI-DSK-0009

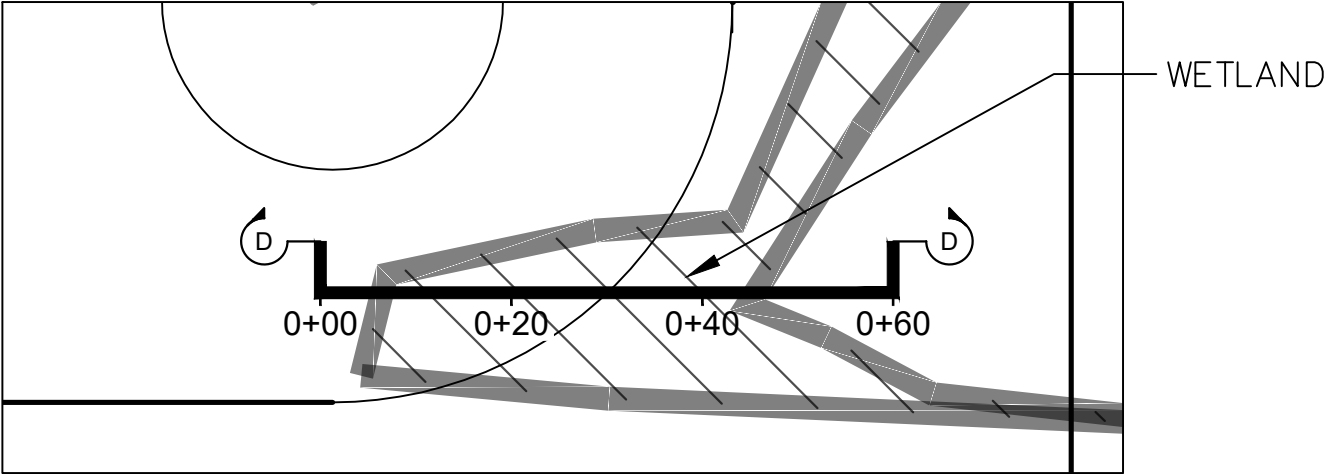
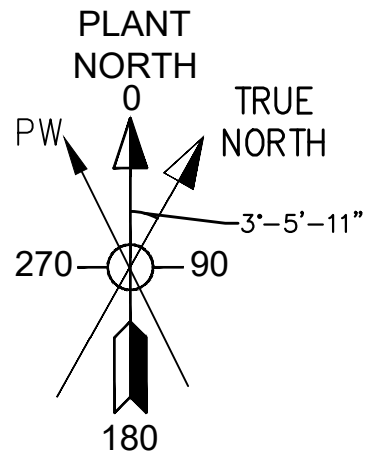
ASA PLANT
AREA X
SECTION 'C'
WETLAND PROJECT IMPACT

SCALE AS NOTED

DWG. NO. 208005-00071-00-CI-DSK-0009

REVISION	C
B 17 x 11	

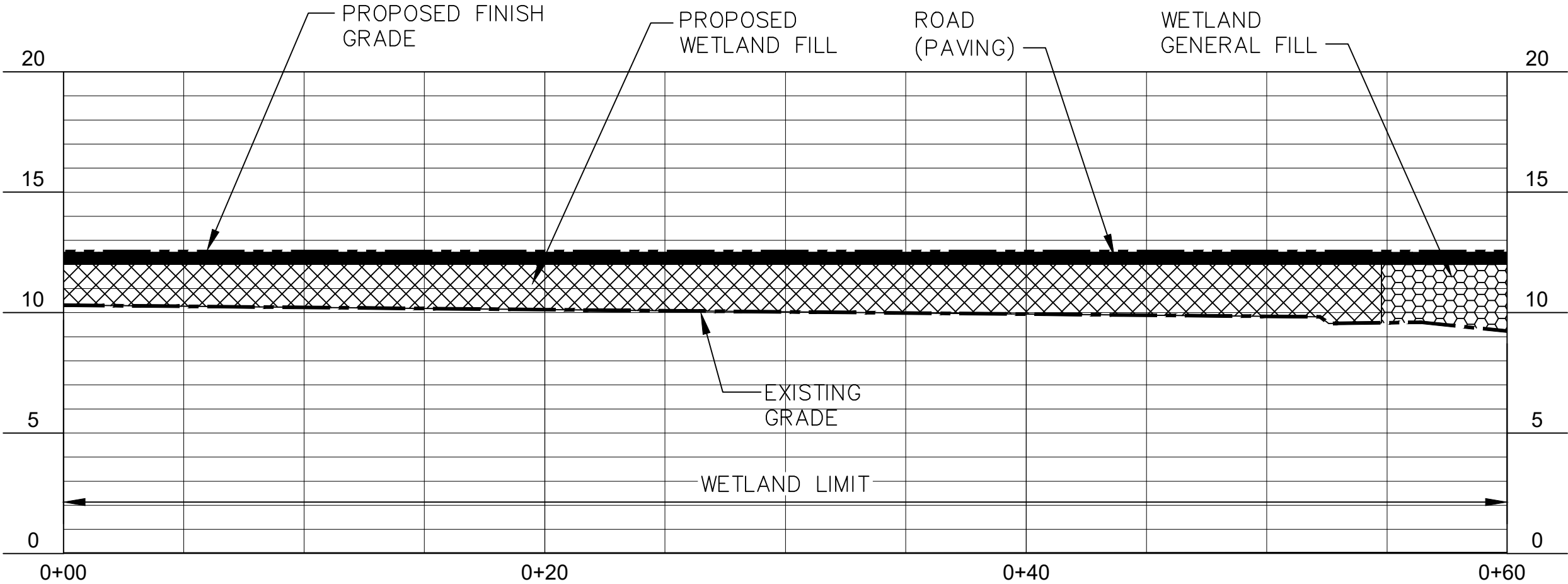
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PLAN VIEW - WETLAND IMPACT

SCALE 1"=20'

- EXISTING GRADE ELEVATION
- PROPOSED FINISH GRADE ELEVATION
- WETLAND AREA
- WETLAND AREA GENERAL FILL
- GENERAL FILL
- PAVING



SECTION 'D' WETLAND IMPACT

SCALE: H:1"=5' V: 1"=1'

C	01/16/2019	ISSUED FOR USE	TN	HC	DS
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS
A	07/24/2018	WETLAND PERMIT DRAWING	RW		
REV	DATE	DESCRIPTION	BY	CHK	APP

WorleyParsons
resources & energy

INEOS
STYROLUTION

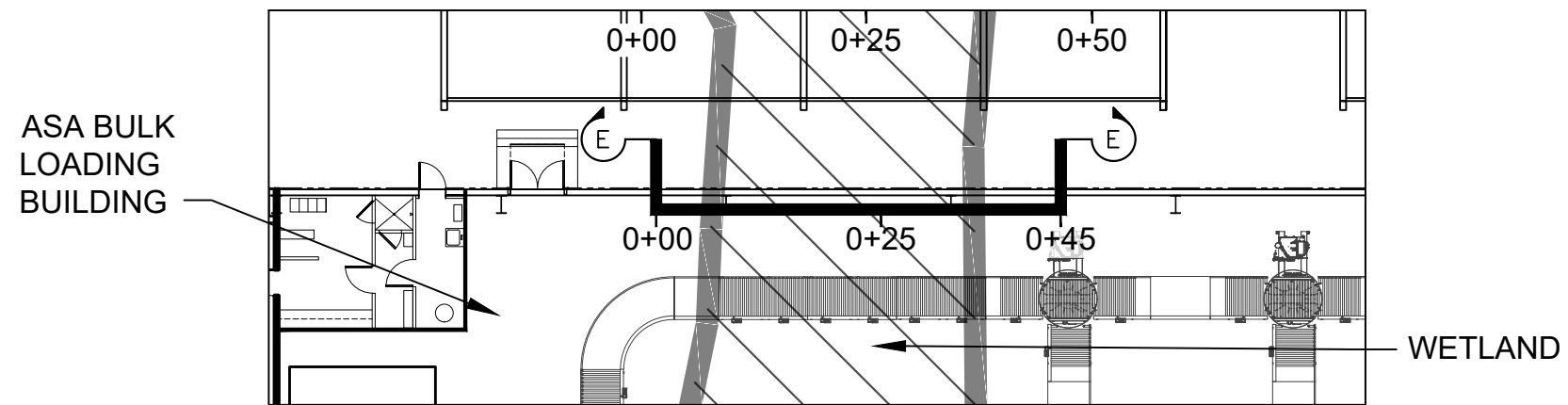
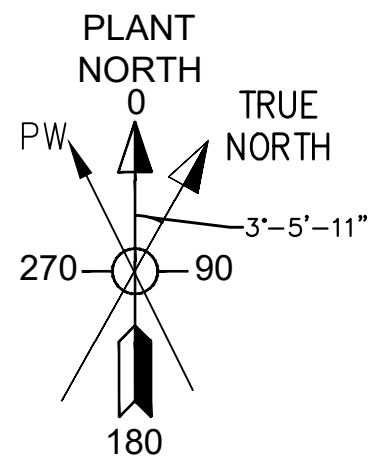
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ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)

PROJECT NO.
208005-00071
WP#: 208005-00071-00-CI-DSK-0010

ASA PLANT
AREA X
SECTION 'D'
WETLAND PROJECT IMPACT

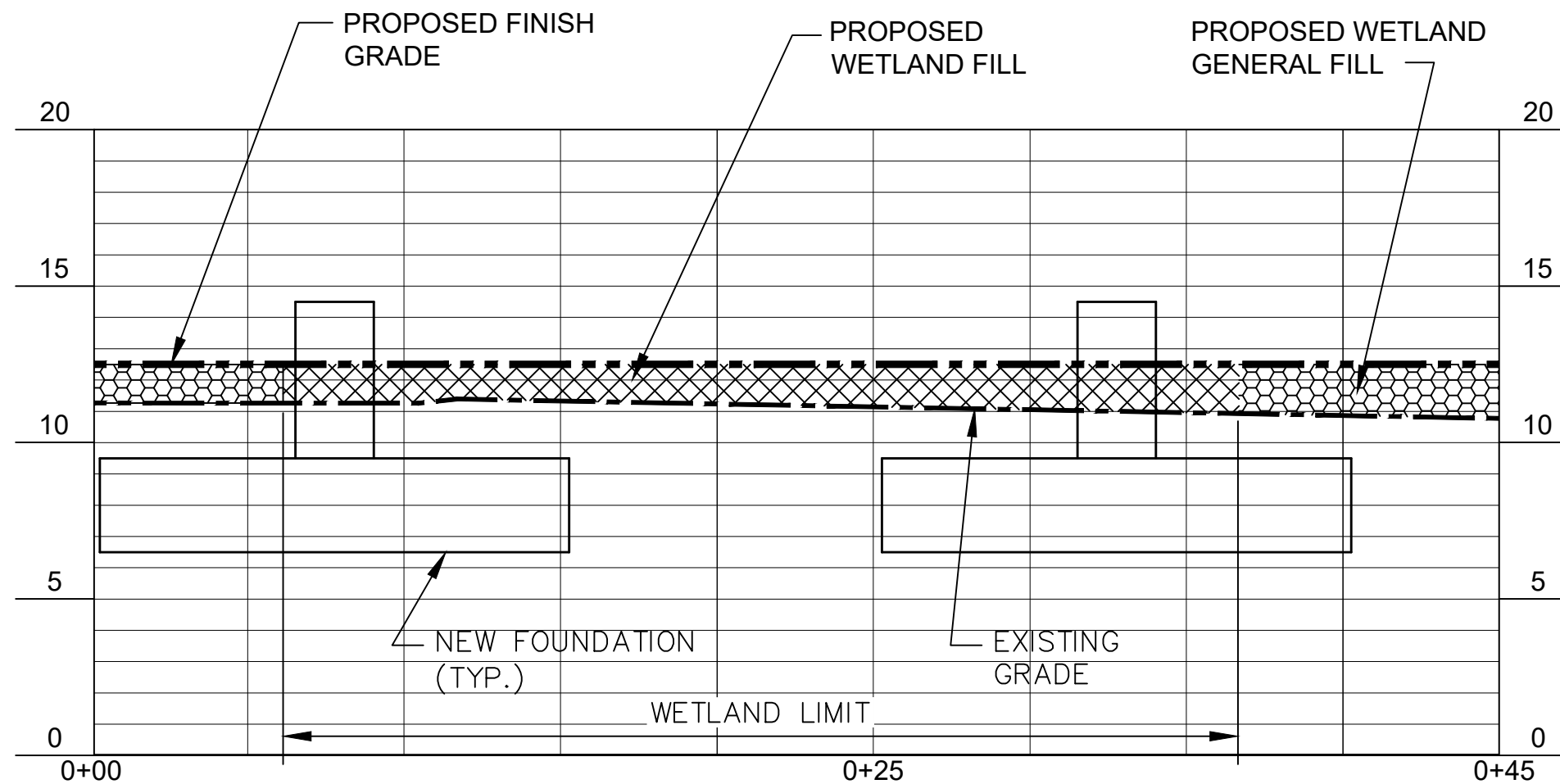
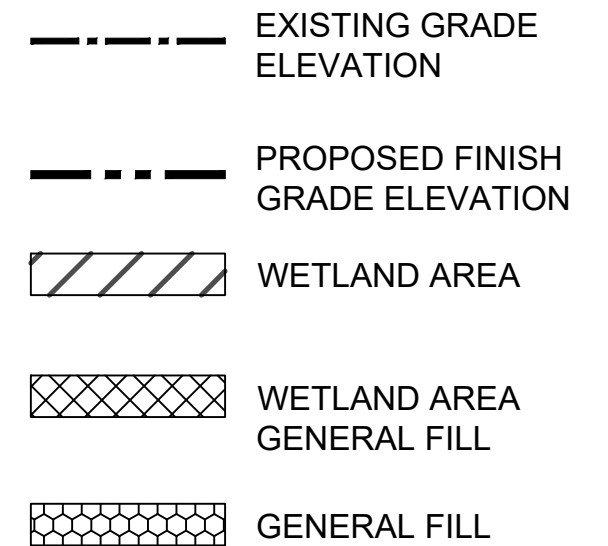
SCALE
AS NOTED

DWG. NO.	208005-00071-00-CI-DSK-0010	REVISION	C
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PLAN VIEW - WETLAND IMPACT

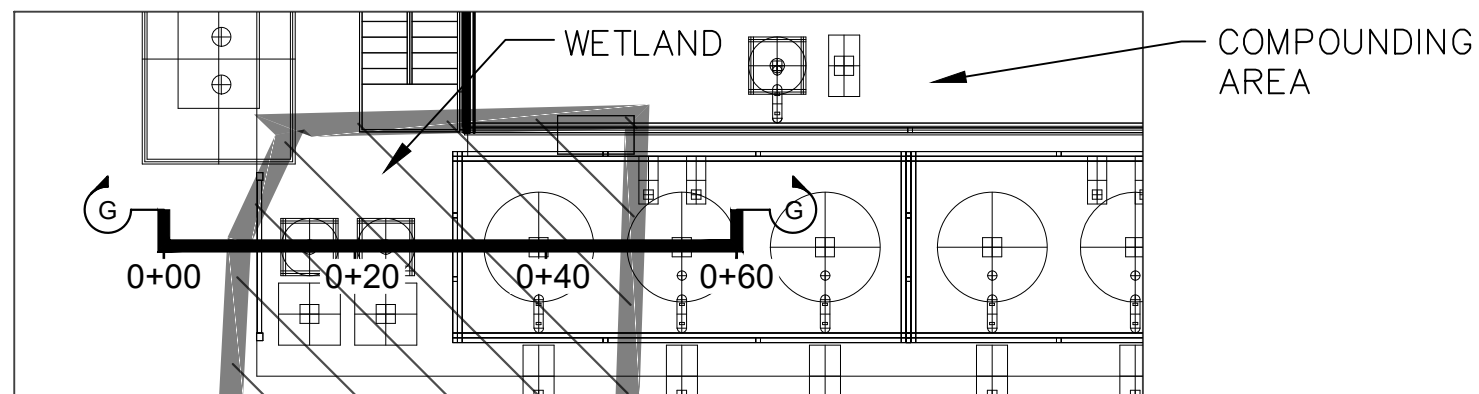
SCALE 1"=20'



SECTION 'E' WETLAND IMPACT

SCALE: H:1"=5' V: 1"=1'

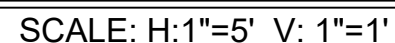
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A	07/24/2018	WETLAND PERMIT DRAWING	RW						
REV	DATE	DESCRIPTION	BY	CHK	APP	CLIENT			
 WorleyParsons resources & energy									
INEOS STYROLUTION									
CLIENT/PROJECT TITLE									
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)									
PROJECT NO.									
208005-00071									
WP#: 208005-00071-00-CI-DSK-0011									
ASA PLANT AREA X SECTION 'E' WETLAND PROJECT IMPACT									
SCALE									
AS NOTED									
DWG. NO.						REVISION			
208005-00071-00-CI-DSK-0011						C			



SCALE 1"=20'



GENERAL FILL

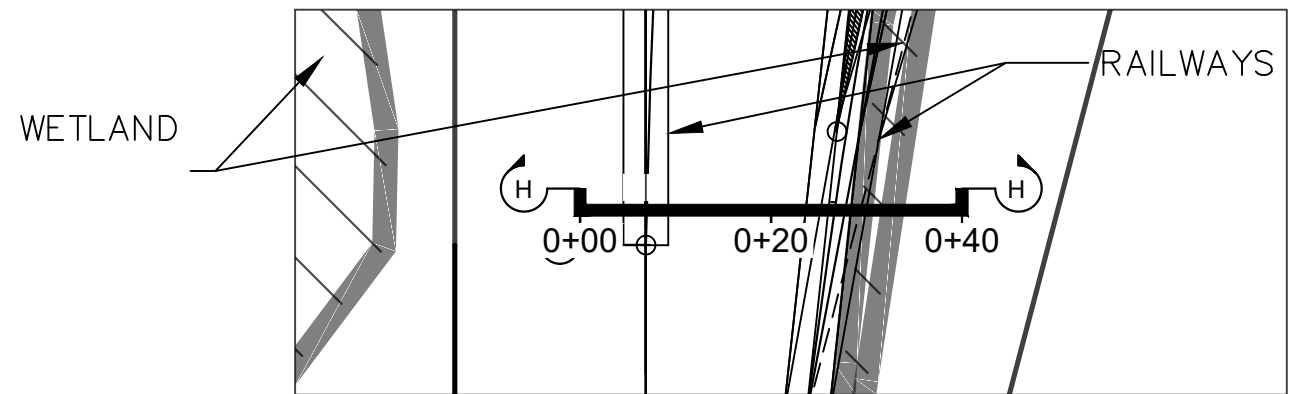
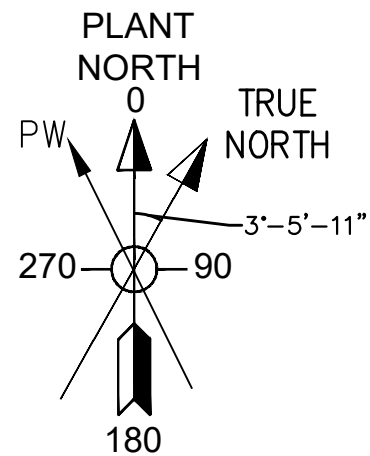


DWG. NO.	208005-00071-00-CI-DSK-0013	REVISION	1
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B 17 x 11

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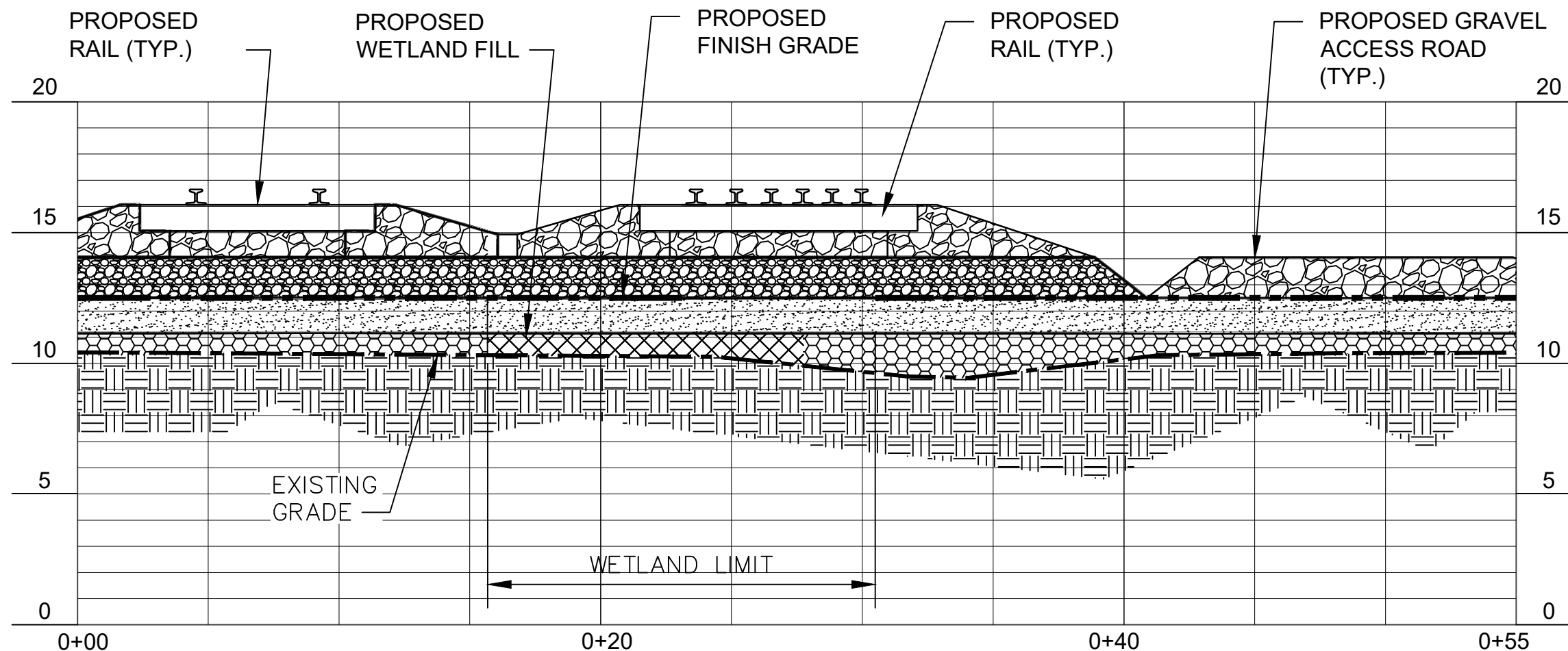
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PLAN VIEW - WETLAND IMPACT

SCALE 1"=20'

- EXISTING GRADE ELEVATION
- PROPOSED FINISH GRADE ELEVATION
- WETLAND AREA
- WETLAND AREA GENERAL FILL
- GENERAL FILL
- CRUSHED LIMESTONE
- GRAVEL/BALLAST
- COMPACTED GRAVEL/COMPACTED BALLAST
- SUB GRADE

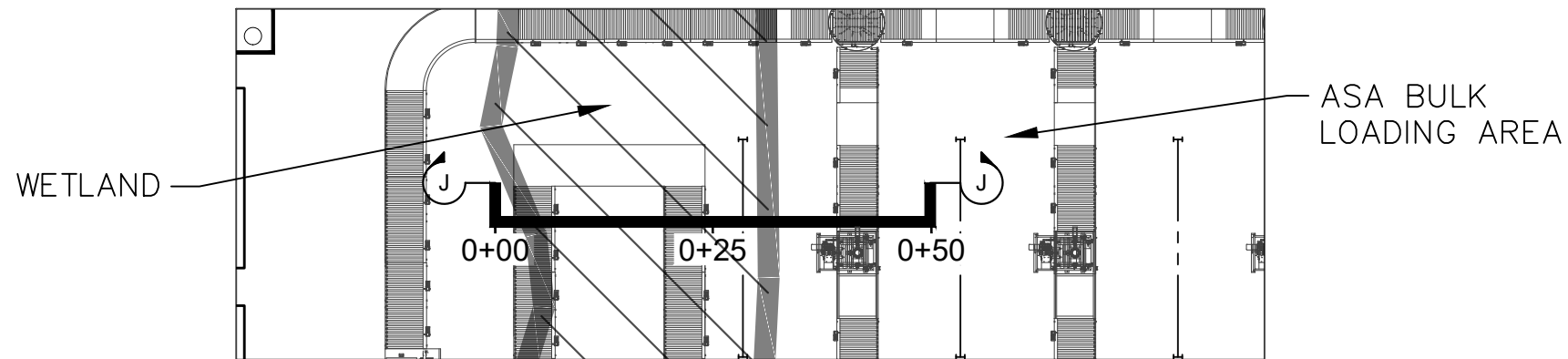
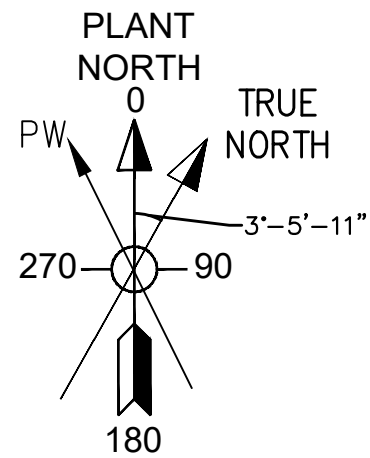


SECTION 'H' WETLAND IMPACT

SCALE: H: 1"=5' V: 1"=1'

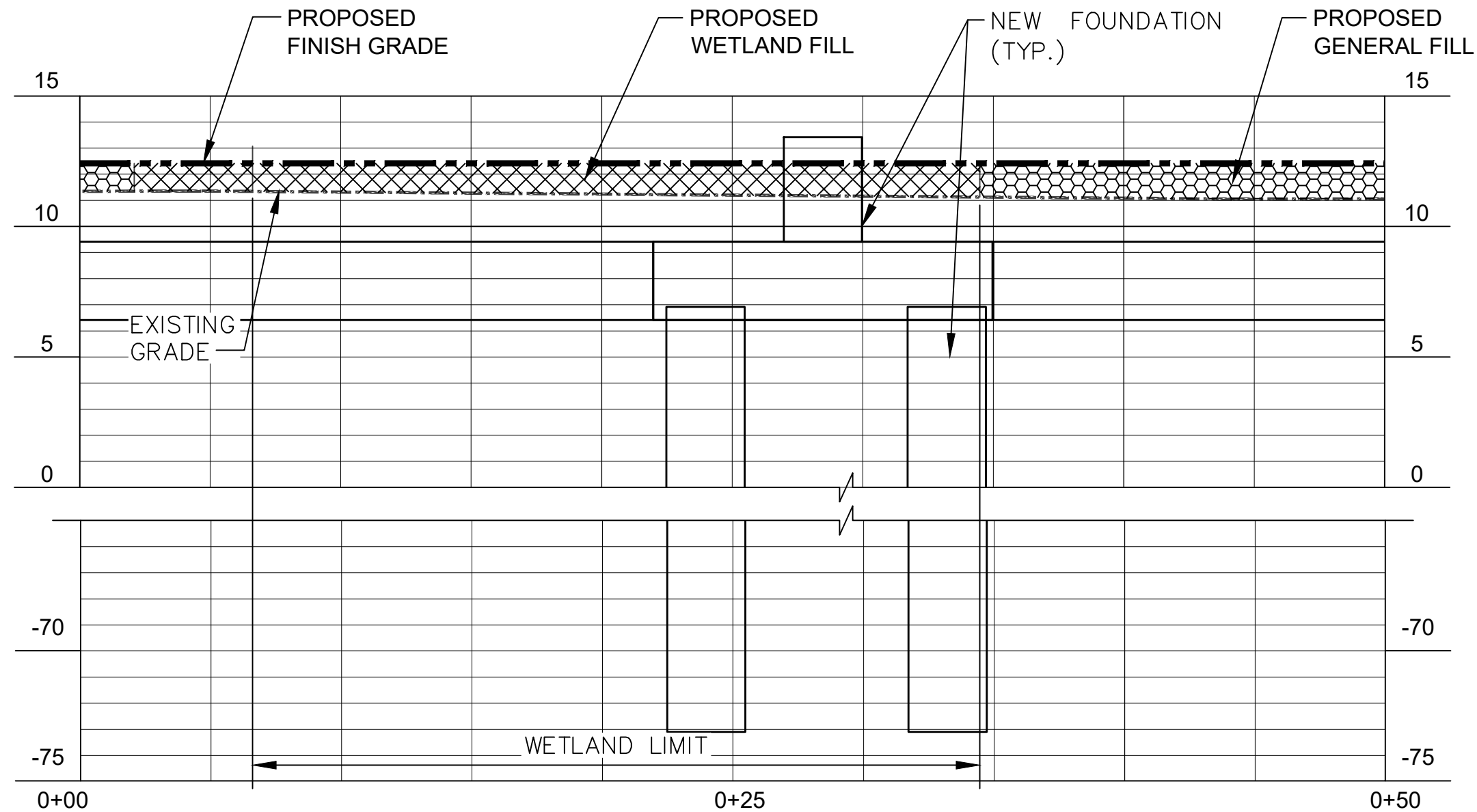
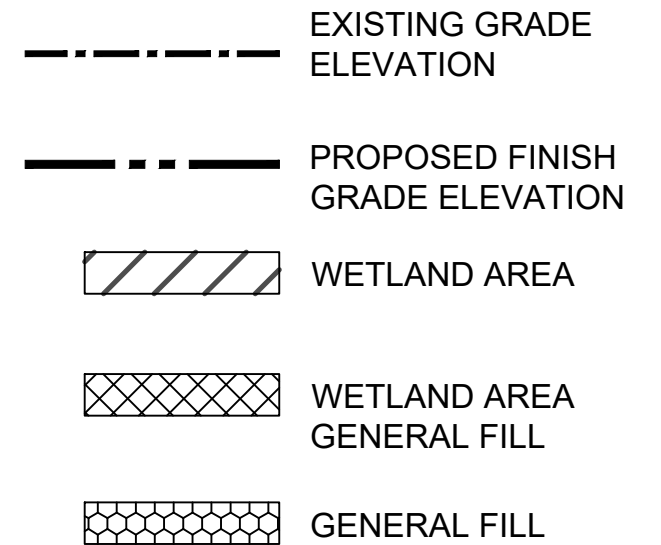
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A	07/24/2018	WETLAND PERMIT DRAWING		RW	HC	DS	
REV	DATE	DESCRIPTION		BY	CHK	APP	CLIENT
WorleyParsons resources & energy							
INEOS STYROLUTION							
CLIENT/PROJECT TITLE							
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)							
PROJECT NO.							
208005-00071							
WP#: 208005-00071-00-CI-DSK-0014							
ASA PLANT AREA X SECTION 'H' WETLAND PROJECT IMPACT							
SCALE							
AS NOTED							
DWG. NO.							
208005-00071-00-CI-DSK-0014							
REVISION							
C							

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PLAN VIEW - WETLAND IMPACT

SCALE 1"=20'

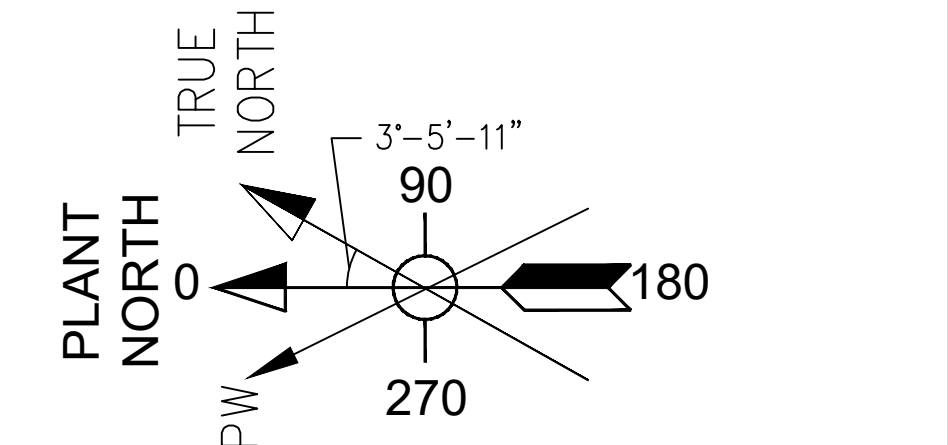
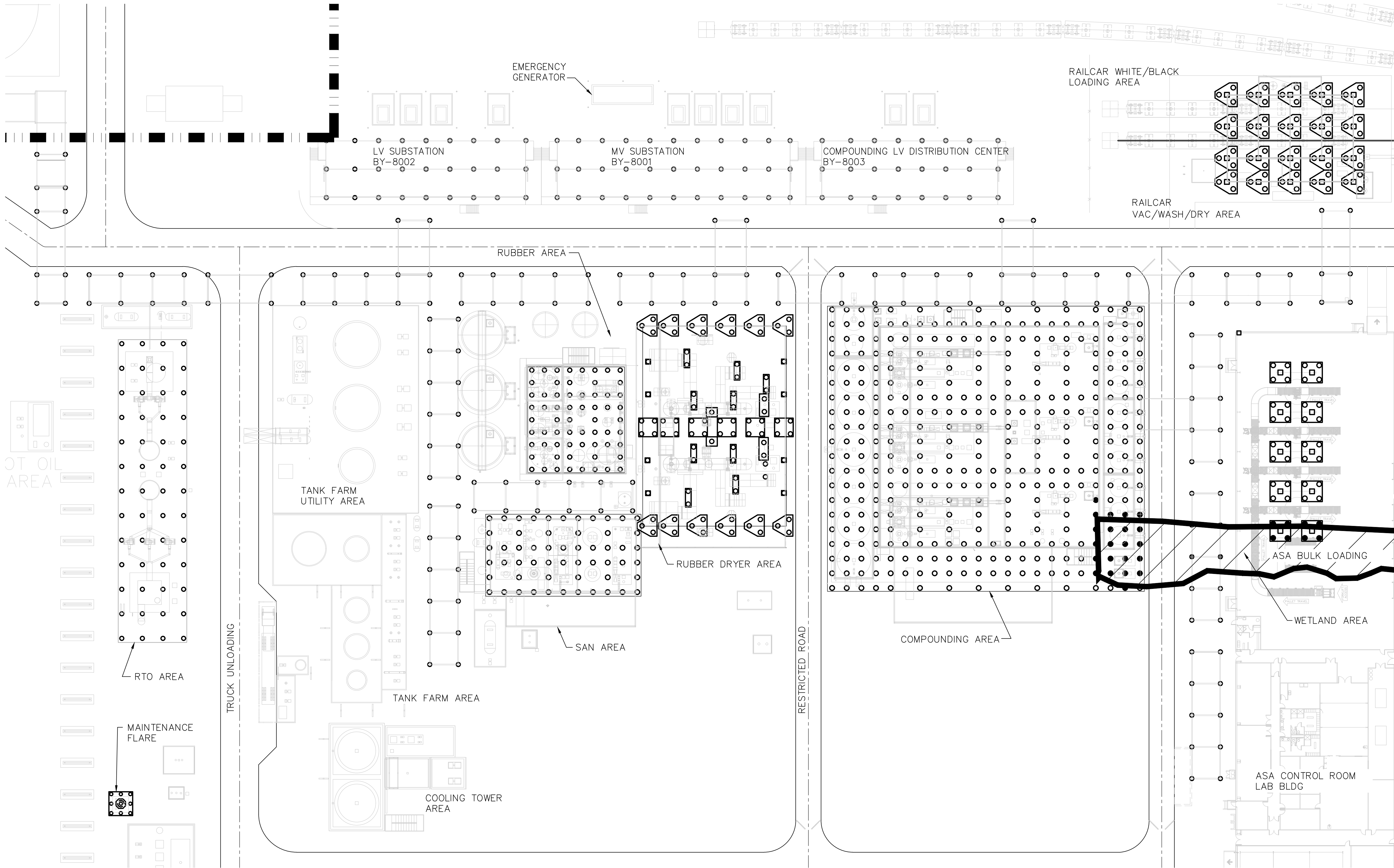


SECTION 'J' WETLAND IMPACT

SCALE: H: 1"=5' V: 1"=1'

C	01/16/2019	ISSUED FOR USE	TN	HC	DS
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS
A	07/24/2018	WETLAND PERMIT DRAWING	RW		
REV	DATE	DESCRIPTION	BY	CHK	APP
 WorleyParsons resources & energy					
INEOS STYROLUTION					
CLIENT/PROJECT TITLE					
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)					
PROJECT NO. 208005-00071 WP#: 208005-00071-00-CI-DSK-0015					
ASA PLANT AREA X SECTION 'J' WETLAND PROJECT IMPACT					
SCALE AS NOTED					
DWG. NO. 208005-00071-00-CI-DSK-0015					REVISION C

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ACIP PILES SUMMARY	NUMBER	VOLUME (CU. YD.)
2'-0" DIA. x 60' LONG	9	63
2'-6" DIA. x 40' LONG	148	1076
2'-6" DIA. x 60' LONG	354	3861
3'-0" DIA. x 80' LONG	482	10095
TOTAL	993	15095

ACIP PILES IN WETLAND SUMMARY	NUMBER	VOLUME (CU. YD.)
2'-6" DIA. x 60' LONG	4	44
3'-0" DIA. x 80' LONG	30	628
TOTAL	34	672

NOTE:
● PILES IN WETLAND AREA SHOWN SOLID

REV	DATE	DESCRIPTION	BY	CHK	APP	CLIENT
C	01/16/2019	ISSUED FOR USE	TN	HC	DS	
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS	
A	07/24/2018	WETLAND PERMIT DRAWING	RW			



INEOS
STYROLUTION

CLIENT/PROJECT TITLE
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)

PROJECT NO.
208005-00071
WP#: 208005-00071-00-CI-DSK-0017

ASA PLANT
AREA X
OVERALL PILE LOCATION PLAN
WETLAND PROJECT IMPACT

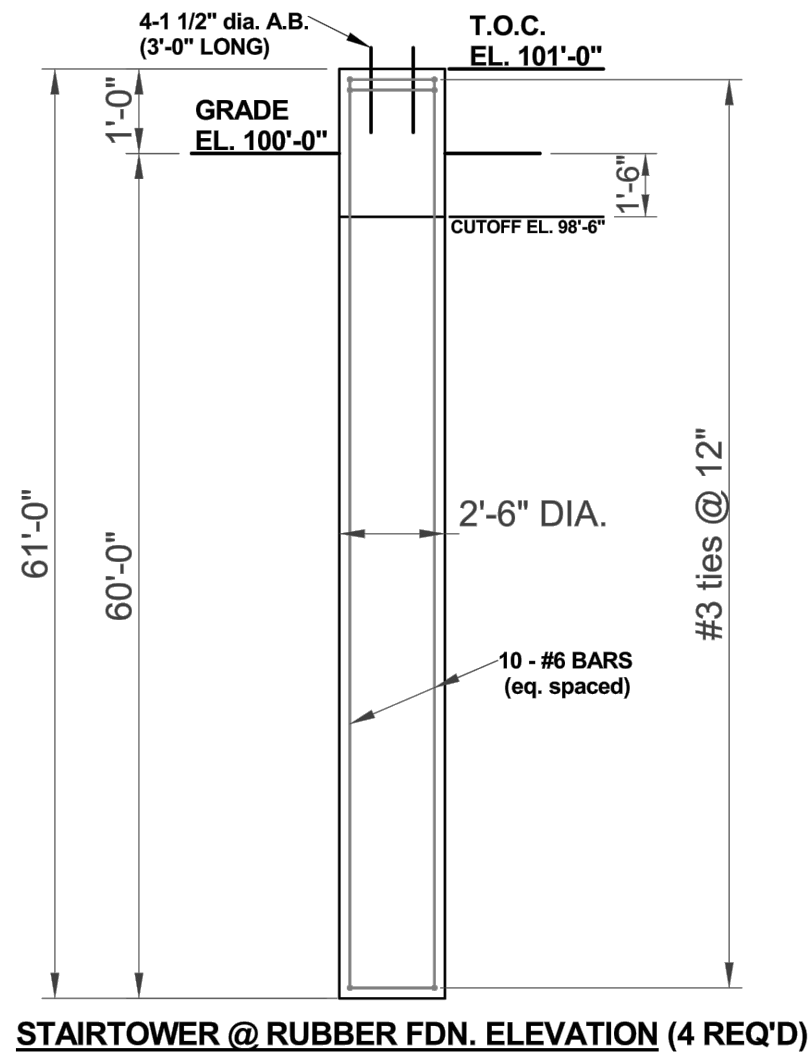
SCALE
AS NOTED

DWG. NO.	REVISION
208005-00071-00-CI-DSK-0017	C

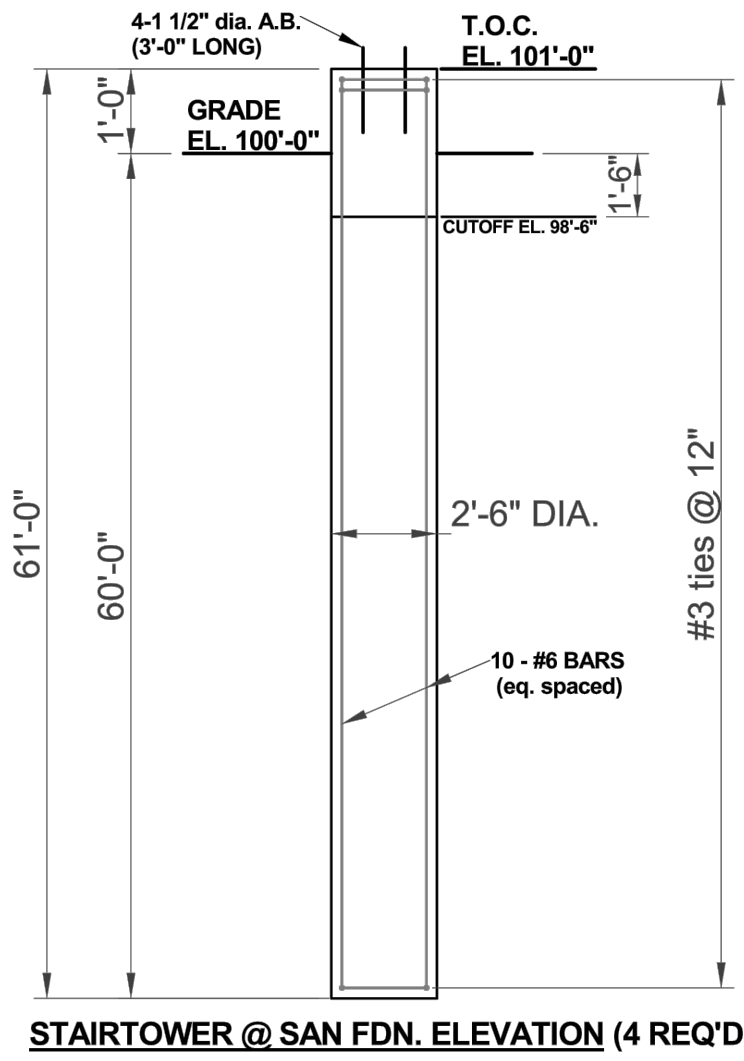
ASA PILE LOCATION PLOT PLAN

SCALE: 1/32"=1'-0"

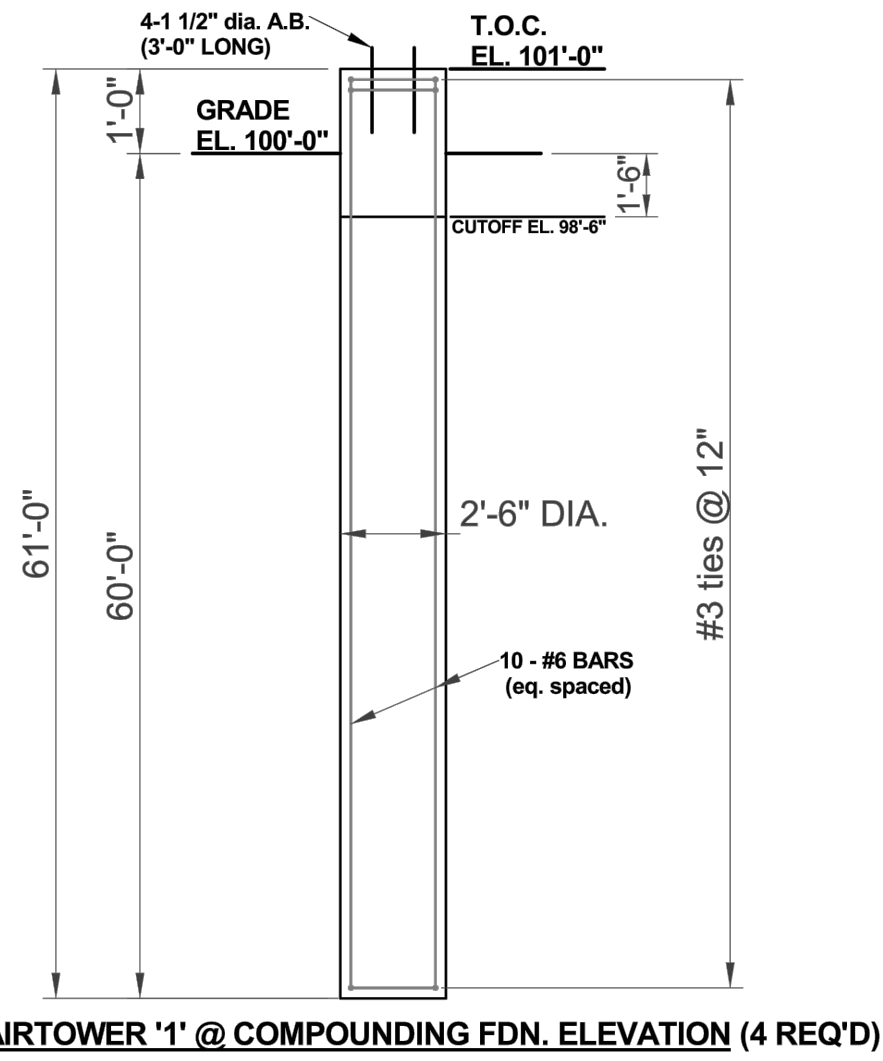
NOTE: THIS DRAWING AND THE DATA CONTAINED HEREIN ARE OF A CONFIDENTIAL NATURE AND SHALL BE USED ONLY FOR THE ORIGINAL PURPOSE INTENDED. COPYING IN ANY FORM OR DISTRIBUTION OF THE ORIGINAL OR COPIES SHALL REQUIRE WRITTEN PERMISSION FROM THE DRAWING OWNER.



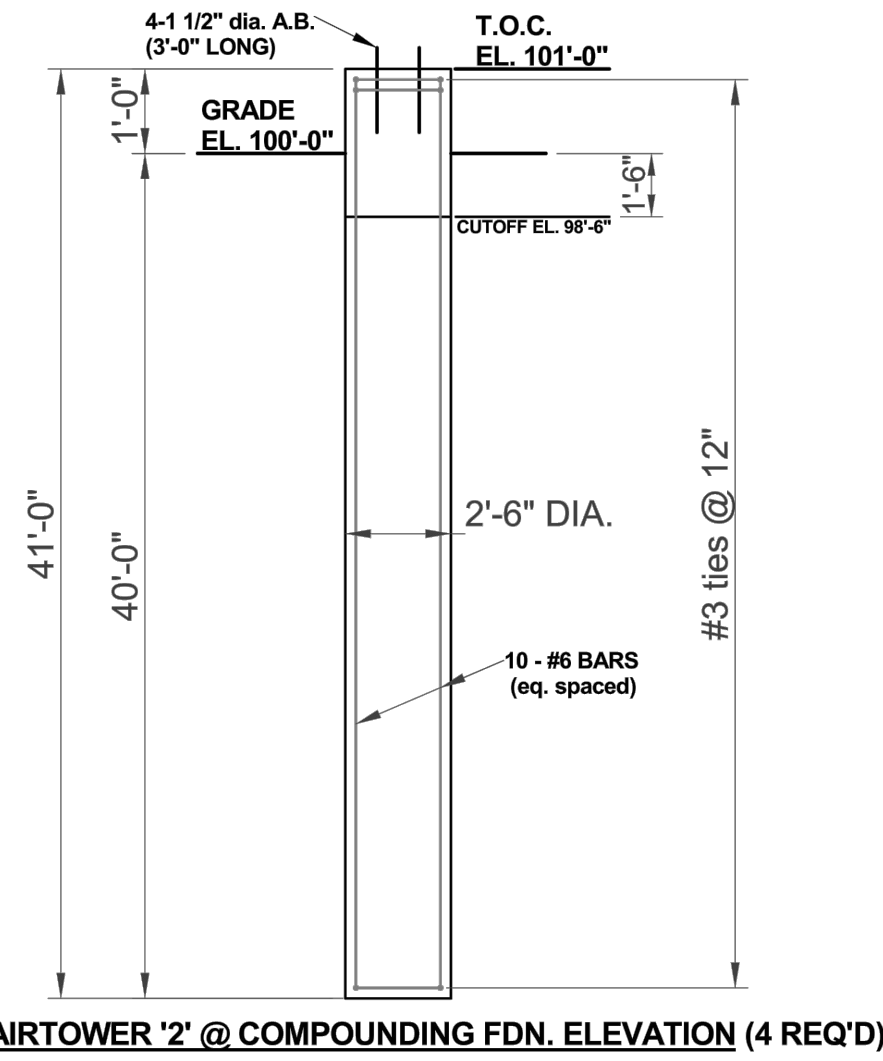
STAIRTOWER @ RUBBER FDN. ELEVATION (4 REQ'D)



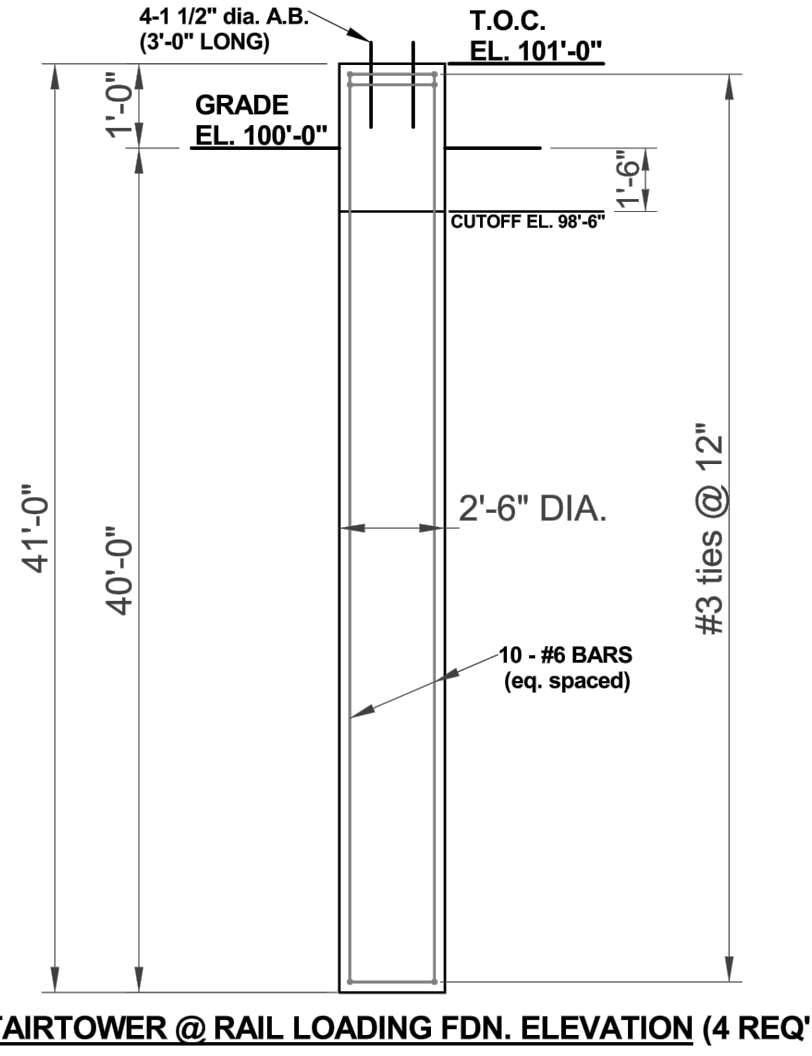
STAIRTOWER @ SAN FDN. ELEVATION (4 REQ'D)



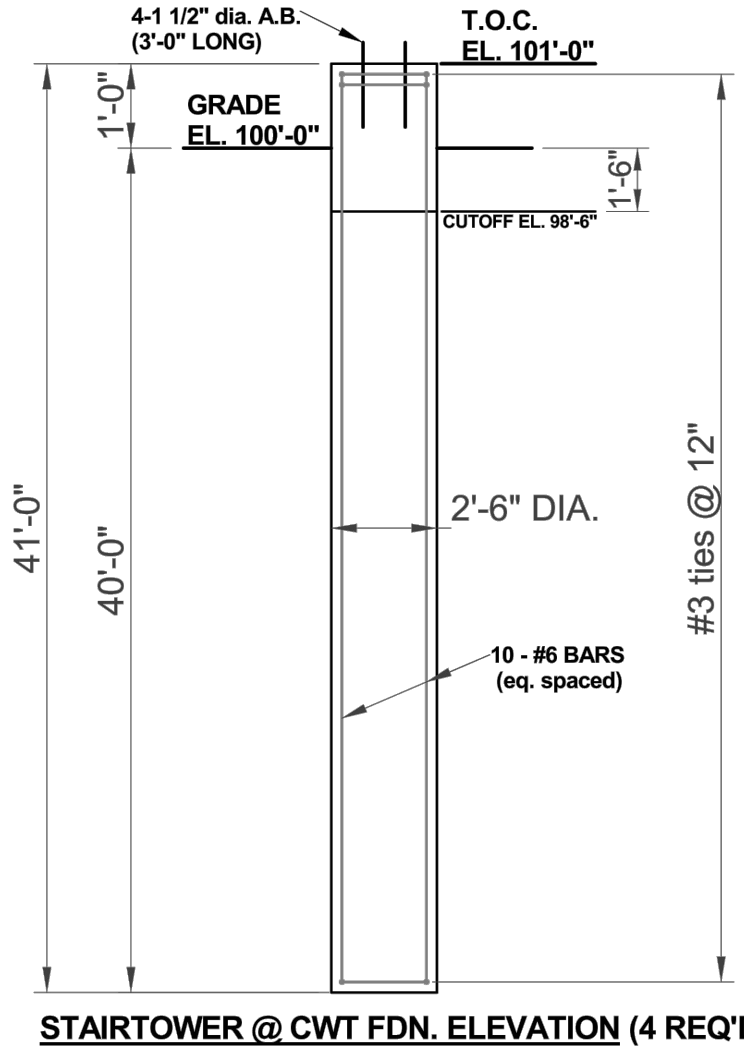
STAIRTOWER '1' @ COMPOUNDING FDN. ELEVATION (4 REQ'D)



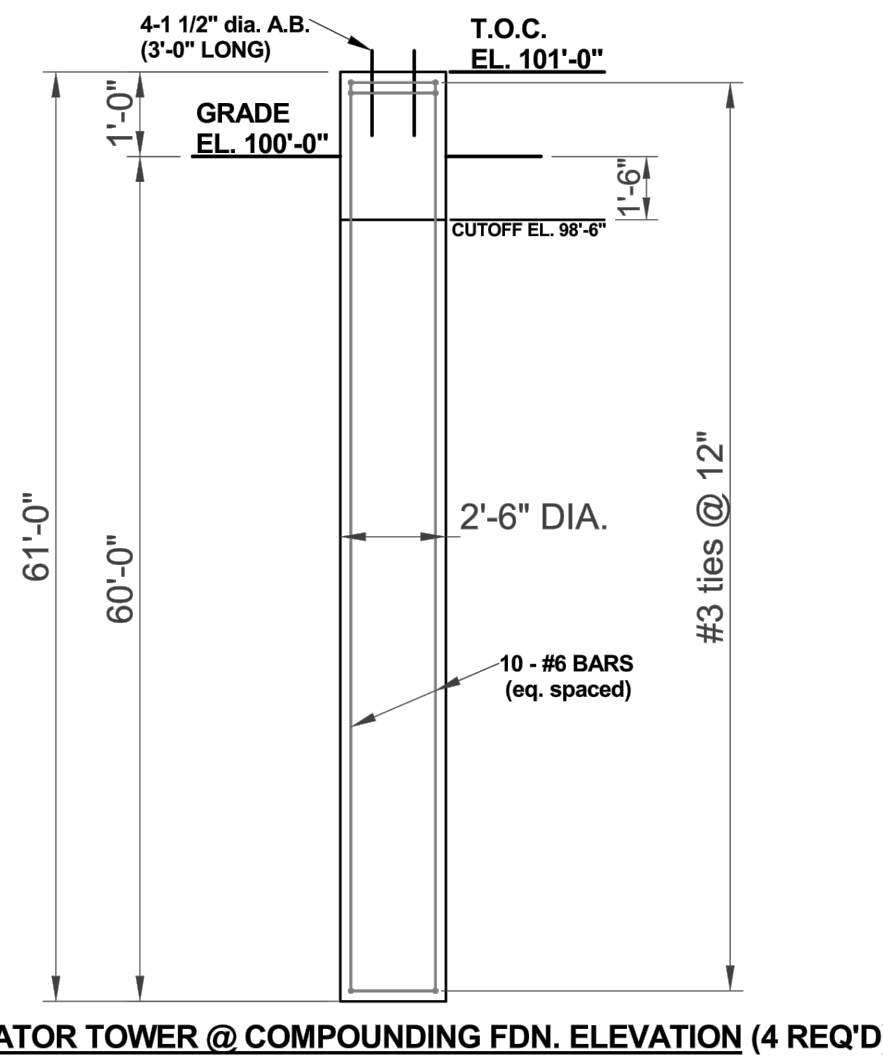
STAIRTOWER '2' @ COMPOUNDING FDN. ELEVATION (4 REQ'D)



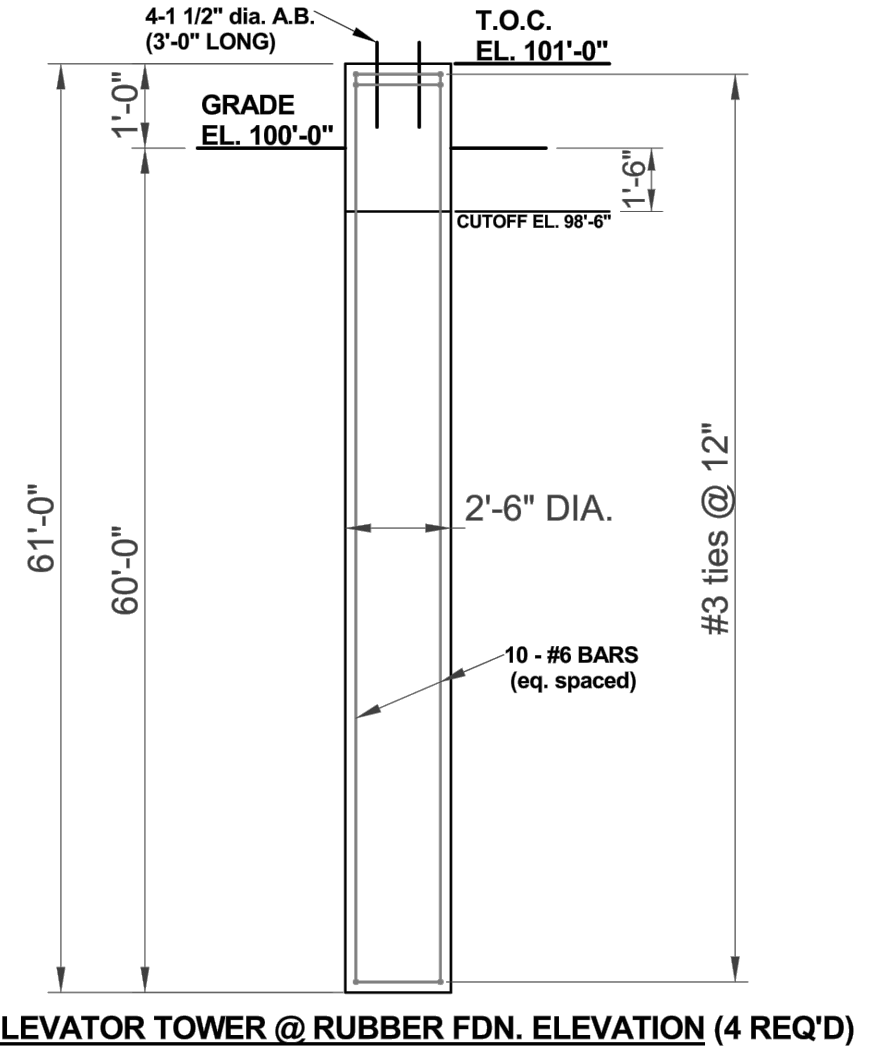
STAIRTOWER @ RAIL LOADING FDN. ELEVATION (4 REQ'D)



STAIRTOWER @ CWT FDN. ELEVATION (4 REQ'D)



ELEVATOR TOWER @ COMPOUNDING FDN. ELEVATION (4 REQ'D)



ELEVATOR TOWER @ RUBBER FDN. ELEVATION (4 REQ'D)

TYPICAL PIER FOUNDATIONS

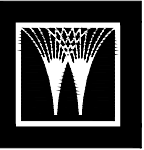
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B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT	TN	HC	DS				
A	07/24/2018	WETLAND PERMIT DRAWING	RW						
REV	DATE	DESCRIPTION	BY	CHK	APP	CLIENT			
 WorleyParsons resources & energy									
INEOS STYROLUTION									
CLIENT/PROJECT TITLE									
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)									
PROJECT NO. 208005-00071 WP#: 208005-00071-00-CI-DSK-0018									
ASA PLANT AREA X TYPICAL FOUNDATIONS WETLAND PROJECT IMPACT									
SCALE NOT TO SCALE									
DWG. NO. 208005-00071-00-CI-DSK-0018								REVISION C	

Figure 1: Typical Deck Layout. The diagram shows a rectangular deck layout with overall dimensions of 200'-0" in width and 180'-0" in length. The layout is defined by a grid of 3'-0" square piers. The spacing between the piers is 16'-0" (9 spaces). The layout includes three large rectangular areas, each 46'-8" wide and 23'-6" high, and three smaller rectangular areas, each 16'-0" wide and 23'-6" high. The layout is centered within the overall dimensions, with 25'-0" of space on the left and right sides, and 3'-11" of space on the top and bottom sides. The layout is labeled "3'-0" SQ. PIERS (TYP.)".

Technical drawing of a bridge deck cross-section showing reinforcement layout and pier details.

Reinforcement Layout:

- Top Deck:** 21 SPACES @ 9'-3" = 194'-3"
- Bottom Deck:** 19 SPACES @ 9'-2" = 174'-2"
- Longitudinal Piles:** 3" dia. x 80' LONG PILES (363 REQ'D)
- Reinforcement Symbols:** Various symbols for top and bottom reinforcement, including circles with dots and squares with dots.

Pier Details:

- Top of Pier (T.O.P.):** EL. 101'-9"
- Grade:** EL. 100'-0"
- Pier Diameter:** 3'-0" SQ. PIER (TYP.)
- Bottom of Pier:** 3'-0" dia. (typ.)
- Bottom of Pier:** 9'-3"

13'-0"

9'-0"

13'-0"

9'-0"

3'-0" dia. X 80' LONG PILES
(40 REQ'D)

4'-0"

3'-0" SQ. PIER (TYP.)

T.O.C.
EL. 101'-0"

GRADE
EL. 100'-0"

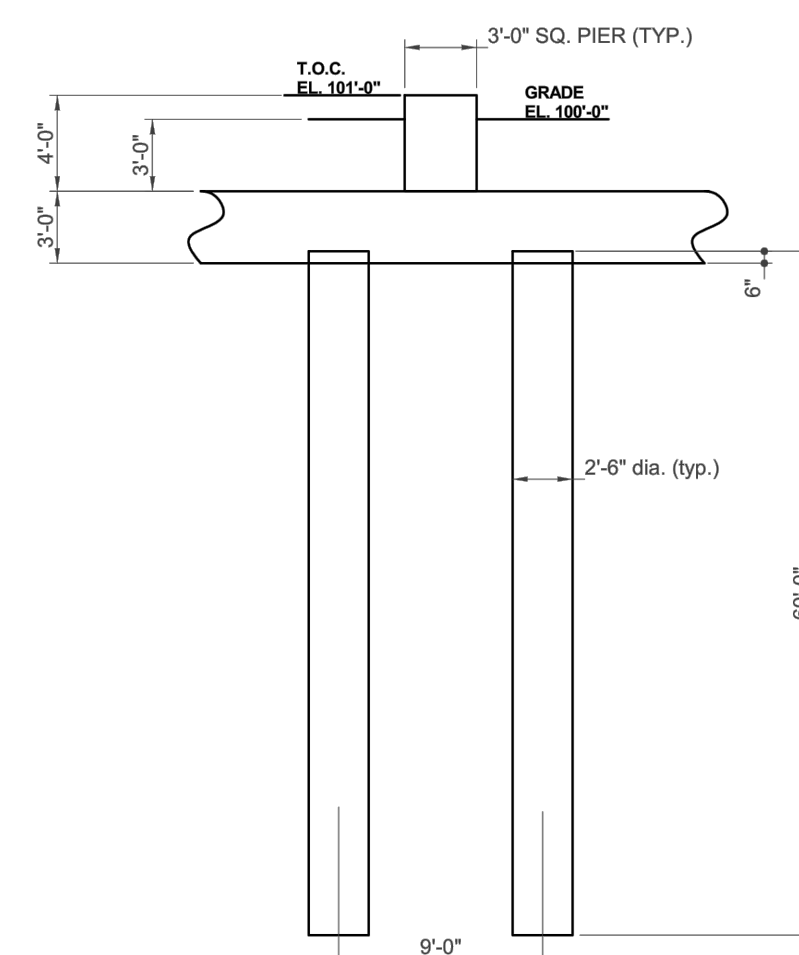
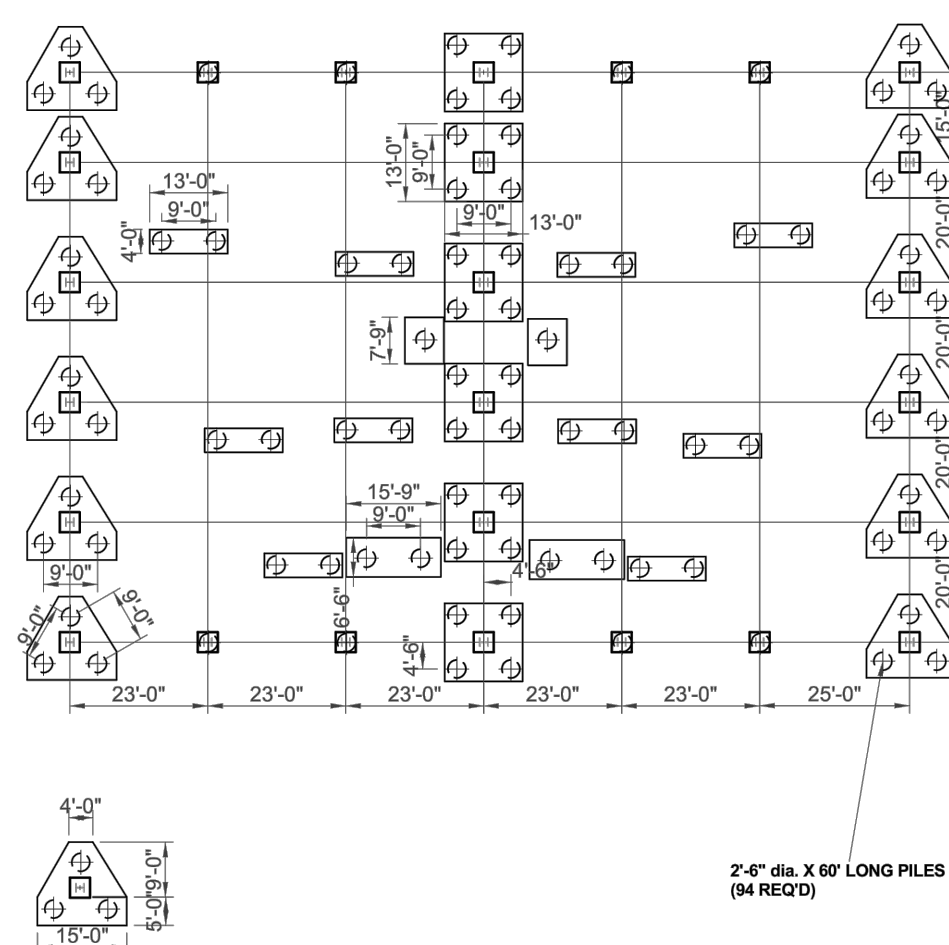
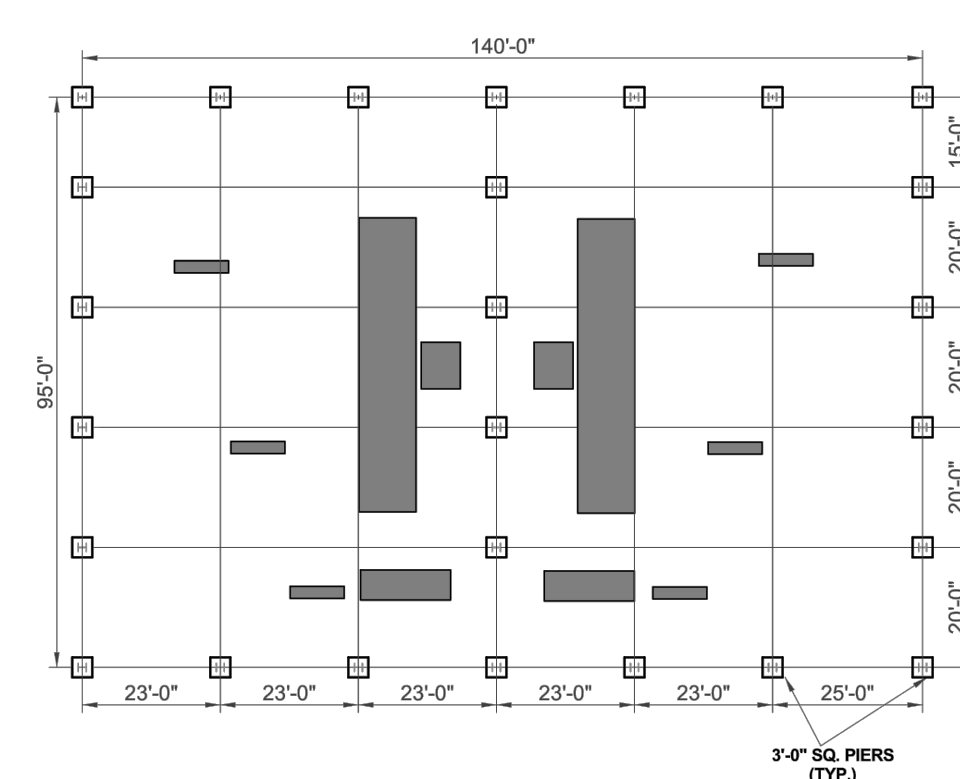
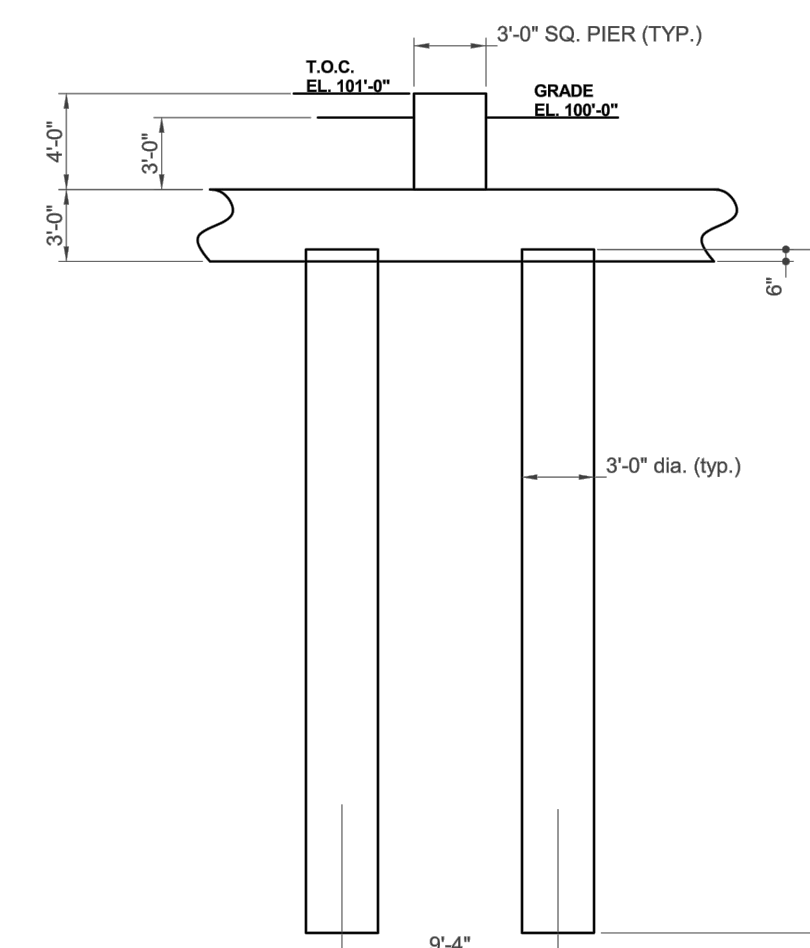
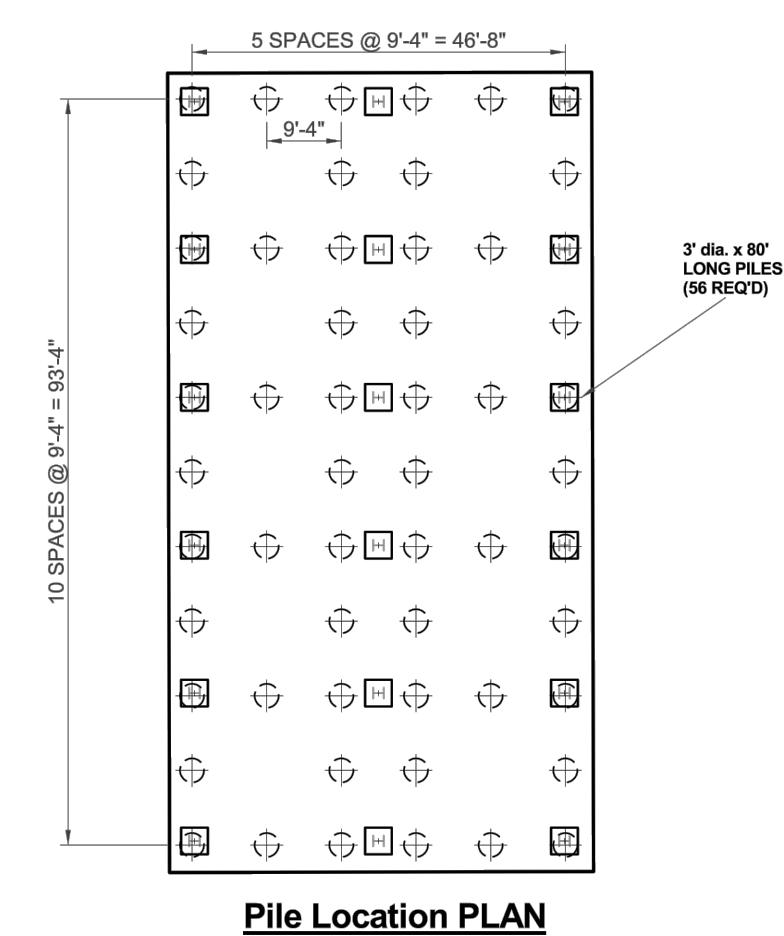
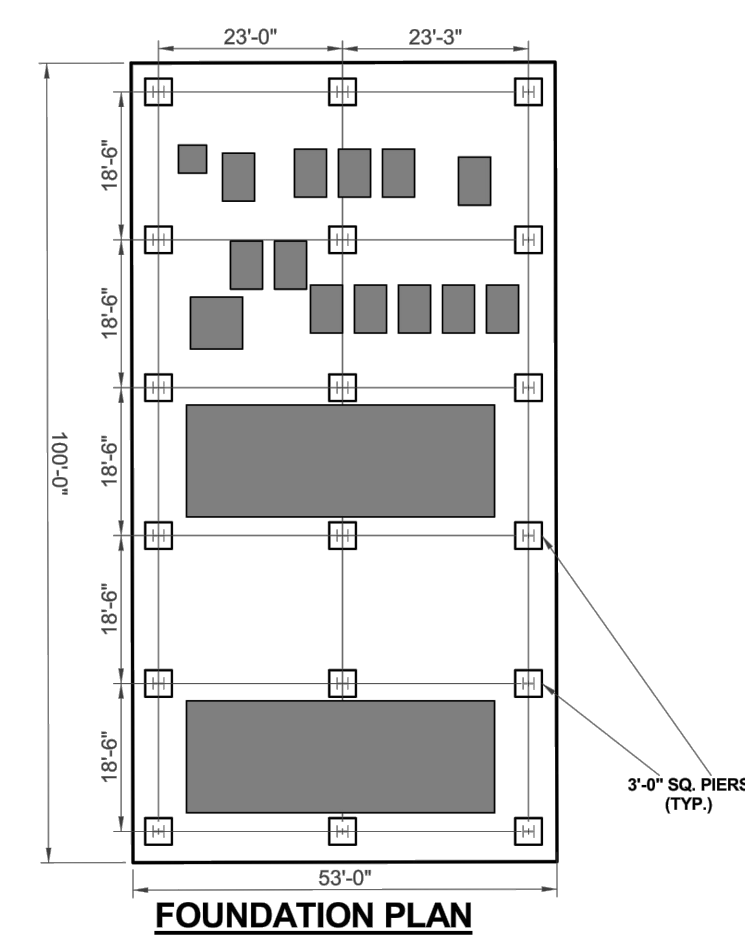
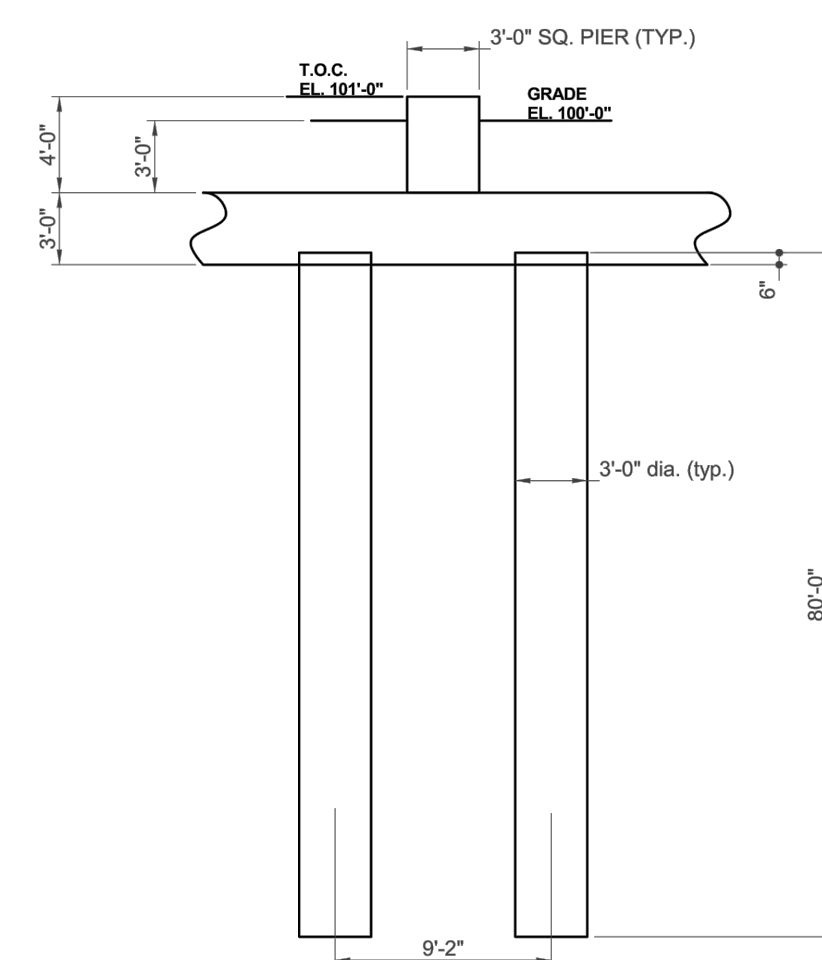
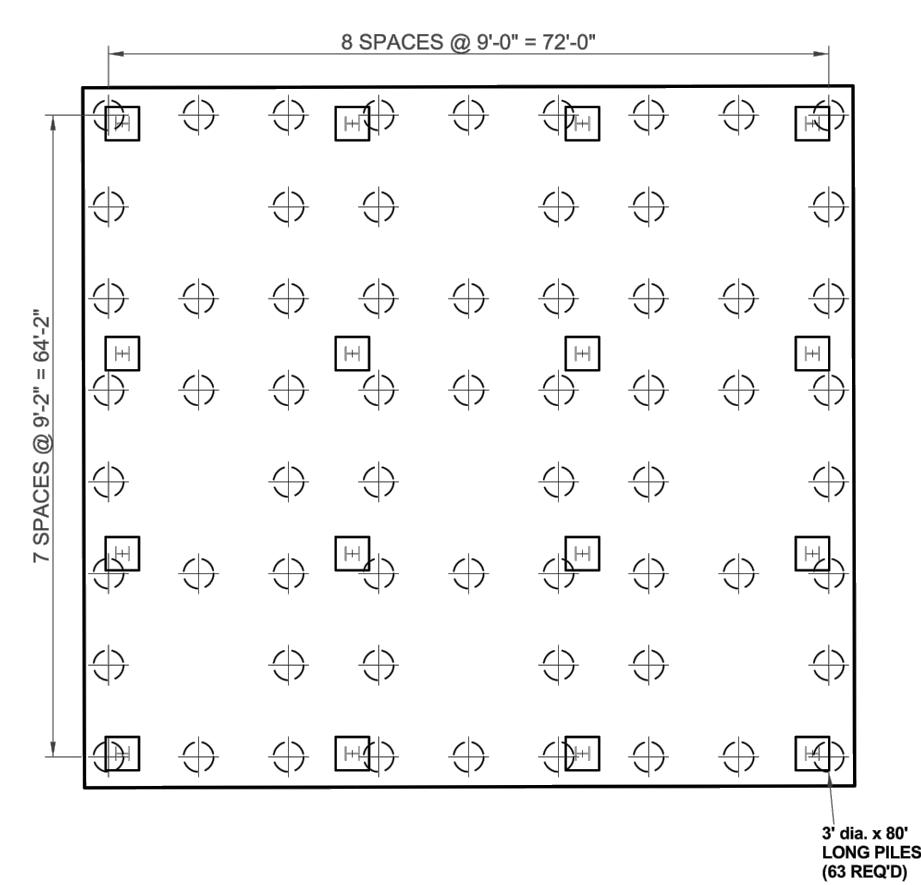
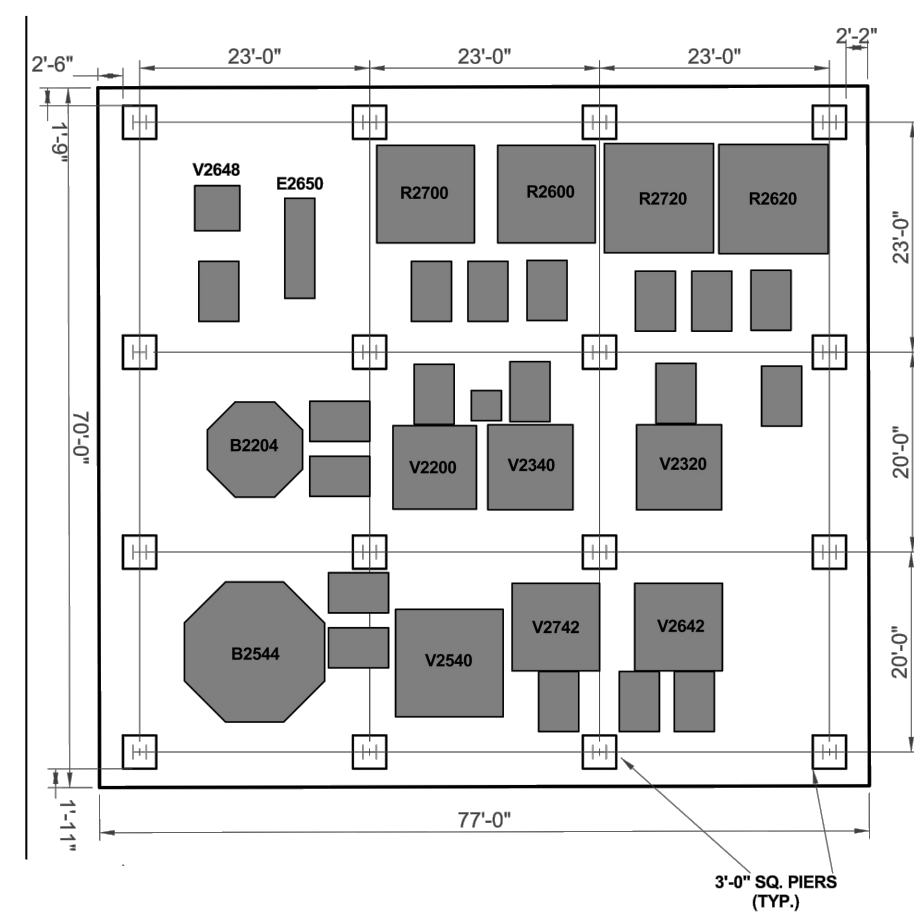
3'-0" dia. (typ.)

80'-0"

9'-0"

Figure 1: Reinforcement Details. This diagram shows the cross-section and elevation of a pile. The cross-section is a circle with a diameter of 2'-6". The elevation shows a total height of 50'-0", with a 10'-0" section at the top and a 40'-0" section below. The top section is labeled "T.O.C. EL. 110'-0"" and "3 SPA. @ 12" = 36"". The 40'-0" section is labeled "10 SPACES @ 15" = 150"". The reinforcement details include 4-3/4" dia. A.B. (2'-0" LONG) at the top, GRADE EL. 100'-0", and 10 - #6 BARS (eq. spaced) in the 40'-0" section. A cutoff is indicated at CUTOFF EL. 99'-0" with a 1'-0" dimension.

D 34 x 22



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[illegible]

The left drawing is a plan view of the pile layout. It shows a rectangular grid of 48 piles arranged in 4 rows and 12 columns. The overall dimensions are 35'-0" wide and 115'-0" long. The spacing between piles is 10'-0" (11 spaces) vertically and 30'-0" (3 spaces) horizontally. Each pile is 2'-6" in diameter. The right drawing is a cross-section of the pile cap. It shows four piles, each 2'-6" in diameter, spaced 10'-0" apart. The total width of the pile cap is 40'-0". The top of the cap is at an elevation of 101'-0" (T.O.C. EL. 101'-0"). The ground level is at an elevation of 100'-0" (GRADE EL. 100'-0"). The pile cap is 2'-0" thick.

Technical drawings of a manhole structure, showing plan and elevation views.

Plan View (Left):

- Overall dimensions: 15'-0" square.
- Central manhole opening: Octagonal shape.
- Reinforcement circles: 9 circles, 2'-0" diameter (9 req'd).
- Reinforcement bars: 6 bars, 6'-0" long.

Elevation View (Right):

- Overall height: 6'-0".
- Manhole opening diameter: 2'-0" (dia.).
- Side wall width: 6'-0".
- Top section height: 6'-0".
- Top of Cover (T.O.C.) elevation: 101'-9".
- Grade elevation: 100'-9".

The image contains two architectural drawings of a rectangular structure, likely a foundation or a wall section.

PLAN View: This drawing shows the top-down view of the structure. It is a large rectangle with a smaller rectangle centered within it. The overall width is dimensioned as 5'-0" at the top. The overall height is dimensioned as 5'-0" on the left. The inner rectangle has a width dimensioned as 2'-0" on the right. The label **PLAN** is centered below the drawing.

ELEVATION View: This drawing shows the front view of the structure. It consists of a wide base and a narrower, taller section on top. The total height of the base is dimensioned as 2'-0" on the left. The total height of the upper section is dimensioned as 3'-0" on the left. The height of the upper section from its base is dimensioned as 2'-0" on the left. To the right of the drawing, the text **T.O.C.** (Top of Concrete) is aligned with the top of the upper section, and **GRADE EL. 100'-0"** is aligned with the top of the base. The label **ELEVATION** is centered below the drawing.

4-1 1/2" dia. A.B.
(3'-0" LONG)

T.O.C.
EL. 101'-0"

GRADE
EL. 100'-0"

CUTOFF EL. 98'-6"

2'-6" DIA.

10 - #6 BARS
(eq. spaced)

#3 ties @ 12"

61'-0"

60'-0"

PIPERRACK FDN. ELEVATION (280 REQ'D)

PLAN
(2 REQ'D)

ELEVATION

C	01/16/2019	ISSUED FOR USE				TN	HC	DS	
B	01/02/2019	RE-ISSUED FOR WETLAND PERMIT				TN	HC	DS	
A	07/24/2018	WETLAND PERMIT DRAWING				RW			
REV	DATE	DESCRIPTION				BY	CHK	APP	CLIENT
 WorleyParsons resources & energy									
INEOS STYROLUTION									
CLIENT/PROJECT TITLE									
ENHANCED SPECIALTIES PRODUCTION IN NORTH AMERICA (ESPN)									
PROJECT NO.									
208005-00071									
WP#: 208005-00071-00-CI-DSK-0021									
ASA PLANT AREA X TYPICAL FOUNDATIONS WETLAND PROJECT IMPACT									
SCALE									
NOT TO SCALE									
DWG. NO.								REVISION	
208005-00071-00-CI-DSK-0021								C	

61'-0"

1'-0"

GRADE
EL. 100'-0"

(3'-0" LONG)

1'-6"

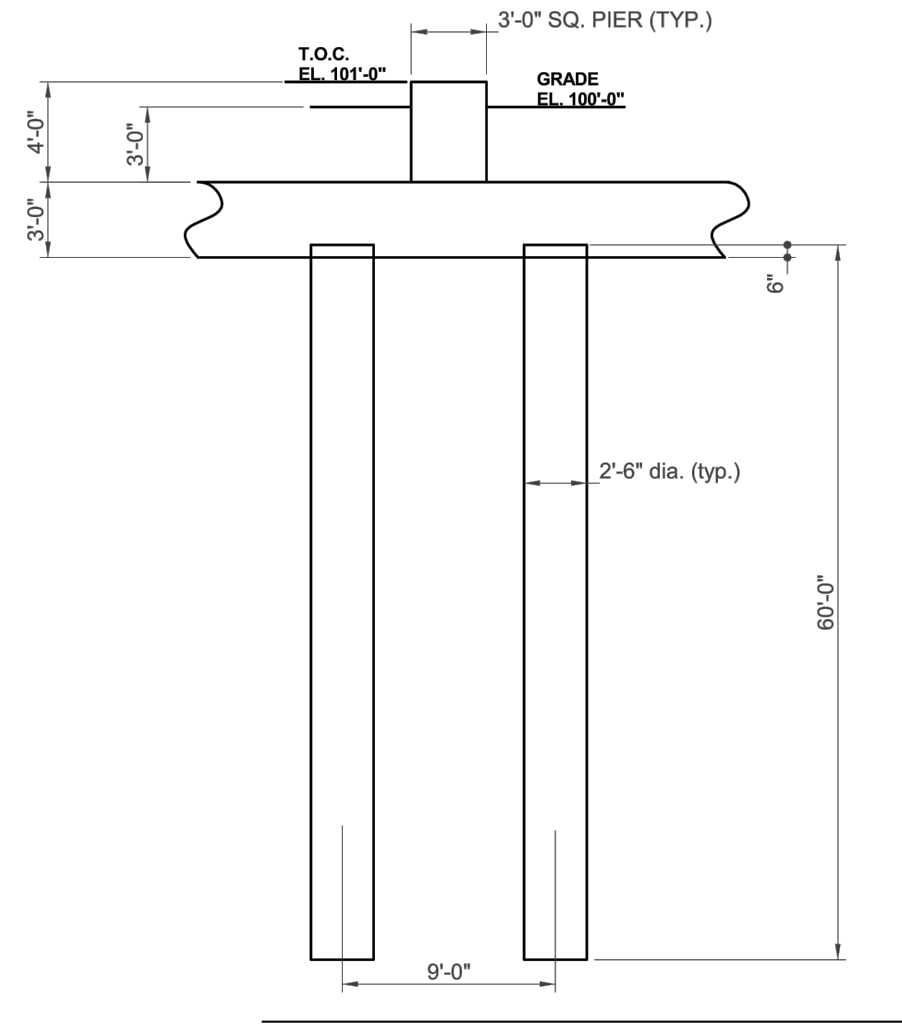
CUTOFF EL. 98'-6"

2'-6" DIA.

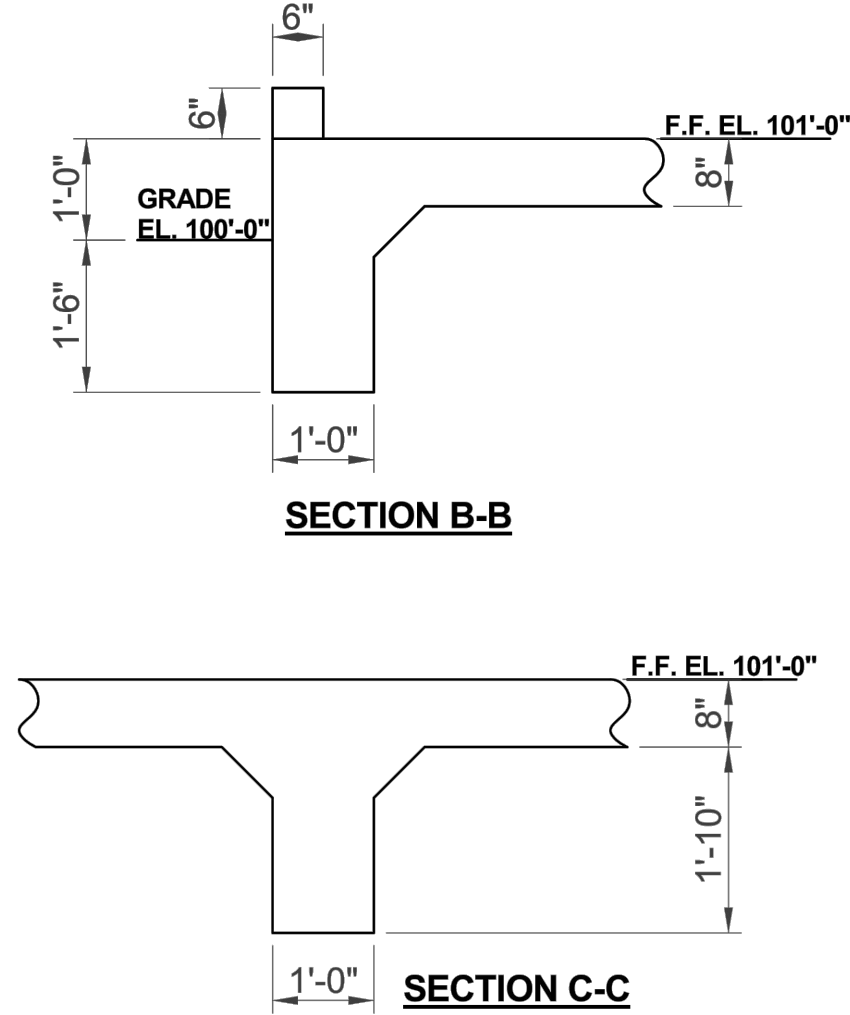
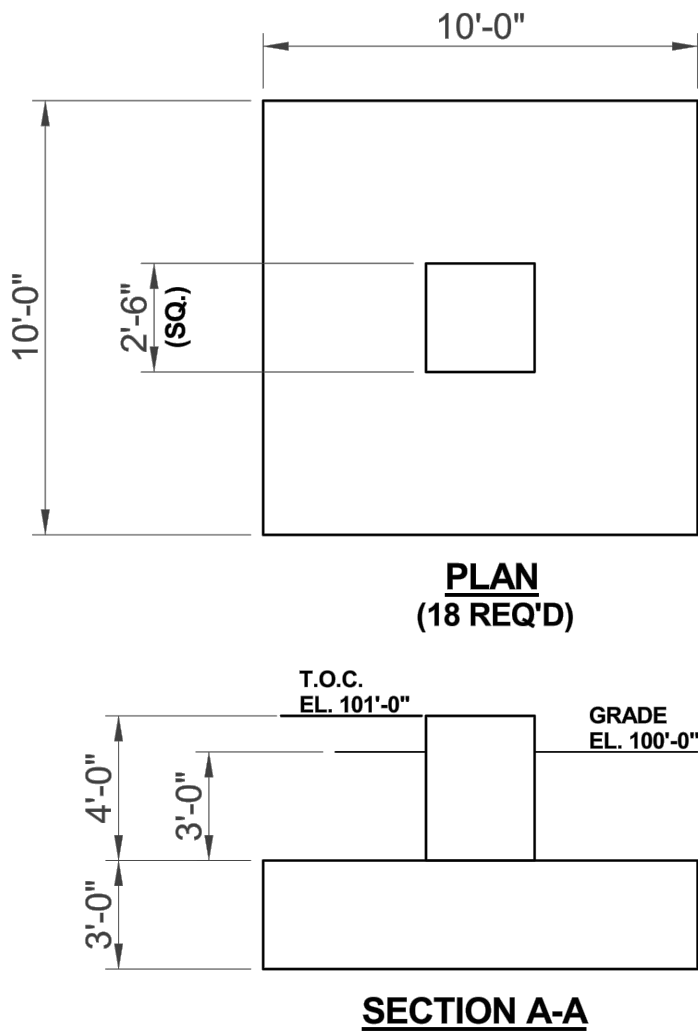
10 - #6 BARS
(eq. spaced)

#3 ties @ 12"

60'-0"



FOUNDATION PLAN



TYPICAL CONTROL ROOM/LAB FOUNDATION

[illegible]