



Submitted by Email and Hardcopy

February 28, 2019

Melanie A. Bachman
Executive Director
State of Connecticut
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

**Development and Management Plan Update No. 3
Updated Plant Design Drawings
PSEG Power Connecticut LLC
Bridgeport Harbor Station Unit 5 Combined Cycle Project
Petition No. 1218**

Dear Ms. Bachman:

This Development and Management Plan Update No. 3 (D&MP Update No. 3) provides revised and updated plant design drawings prepared to reflect minor changes and updates to the final design plans. The revisions are submitted for review and approval by Connecticut Siting Council (CSC) staff.

As background, this project is the combined cycle generating facility designated by PSEG Power Connecticut LLC (PSEG) as Bridgeport Harbor Station Unit 5 ("BHS 5", the "Project" or the "Facility") as addressed in Petition No. 1218. An initial D&MP submittal (D&MP Phase 1) for construction support facilities was filed with the CSC on September 21, 2016. A second D&MP submittal for permanent plant facilities and features (D&MP Phase 2) was filed on October 31, 2016. Collectively, these two D&MP documents included the complete design and construction details of the Project as known at that time. The D&MPs were approved by the CSC on October 27, 2016 and December 22, 2016, respectively.

D&MP Update No. 1 was filed on June 29, 2017 addressing improvements in the site water balance and underground utility routings and alignments. The D&MP Update No. 1 was approved by the CSC on July 6, 2017.

D&MP Update No. 2 was filed on April 11, 2018 to address revisions to the design for several areas, including final grading, water balances, onsite and offsite utilities, etc. This D&MP Update No. 2 was approved by the CSC on April 16, 2018.

Since then, there have been no substantive revisions made excepting for minor refinements for constructability, vendor clarifications, and / or to address site construction interferences. This

D&MP Update No. 3 includes the design drawings and descriptions that have changed from prior submitted documentation. These changes are considered to be minor in nature, more accurately reflect certain systems and design features and involve minimal refinements in utility or structure location:

1. Revisions to the ammonia tank and unloading area containment to address construction interferences;
2. Water Balance Diagrams, including a zinc removal system necessary to assure compliance with anticipated discharge limits;
3. Grading / paving and on-site underground utility drawings to reflect minor changes made during construction; and
4. General Arrangement Drawing (for reference) and drawings showing the recycle sump foundation plans in the General Services area, and consolidated foundations under the Air Cooled Condenser.

The revisions included in this D&MP Update No. 3 do not result in any significant changes to the appearance or function of the new plant, and are consistent with the applicable City of Bridgeport Building Permits. They do not result in any re-arrangement of facilities or structures (excepting for the noted minor adjustments in plan location); any change to the height or location of the plant Heat Recovery Steam Generator stack or the auxiliary boiler stack; a change in the Project's Limit of Disturbance; additional or different environmental impacts; a change in EMF conclusions or values; changes to previously defined offsite impacts; an increase in the drainage area associated with the stormwater system; or a change in the stormwater outfall or flows.

Based on our assessment of the project at this time, the enclosed plant design drawings reflect the current and final design plans for the Facility and are provided to CSC staff for review and approval as D&MP Update No. 3.

If you have any questions or require clarification, please contact me at 973-856-0066 or the Project Senior Technical Director / Regulatory Lead, Jeff Pantazes at 609-440-0236.

Very truly yours,

A handwritten signature in black ink, appearing to read "David Hinchey, Jr.", with a stylized, cursive script.

David Hinchey, Jr.

Manager Environmental - Major Permits & Technical Services
PSEG Power LLC
Fossil Environmental, Health and Safety

Enclosure – D&MP Update No. 3

C Harold Blinderman, Esq
Leilani M. Holgado, Esq.
Arthur Mantell
Scott Matheson
Jeffrey Pantazes
Leonard Rodriguez, Esq. (United Illuminating Company)
Thomas Gill (City of Bridgeport)

**Connecticut Siting Council
Development and Management Plan Update No. 3
Combined Cycle Generating Facility
PE 1218**

**Bridgeport Harbor Station Unit 5
Bridgeport, Connecticut**



Final Design Refinements - Minor Drawing Revisions

PSEG POWER CONNECTICUT, LLC

February 28, 2019

Development and Management Plan Update No. 3 Summary:

This project is the combined cycle generating facility as addressed in Petition No. 1218.

This Development and Management Plan Update (D&MP Update No. 3) submittal to the Connecticut Siting Council (CSC) includes minor drawing revisions to the detailed design plans for PSEG Power Connecticut LLC (PSEG) Bridgeport Harbor Station Unit 5 (“BHS 5”, the “Project” or the “Facility”). The revisions are submitted for review and approval by Connecticut Siting Council (CSC) staff.

Background

The initial D&MP submittal (D&MP Phase 1) for construction support facilities was filed with the CSC on September 21, 2016 and approved on October 27, 2016. A second D&MP submittal for permanent plant facilities (D&MP Phase 2) was filed on October 31, 2016 and approved by the CSC on December 22, 2016.

D&MP Update No. 1 was filed on June 29, 2017 addressing improvements in the site water balance and underground utility routings and alignments (approved on July 6, 2017). D&MP Update No. 2 was filed on April 11, 2018 to address revisions to the design plans for several areas, including final grading, water balances, onsite utilities, and offsite utilities (approved on April 16, 2018).

This D&MP Update No. 3 includes design changes that are considered to be minor in nature, more accurately reflect certain system design details, or involve minimal refinements in utility or structure locations. This includes:

1. Revisions to the ammonia tank and unloading area containment to resolve construction interferences;
2. Water Balance Diagrams, including a zinc removal system necessary to assure compliance with anticipated discharge limits;
3. Paving / grading and on-site underground utility drawings to reflect minor changes made during construction (note that some of the underground utility drawings are the same as previously submitted, but the complete set is included for more convenient reference); and
4. General Arrangement (for reference - essentially no changes from prior submittal), drawings showing the recycle sump in the General Services area, and an updated foundation drawing (showing foundation consolidation under the Air Cooled Condenser).

Connecticut Siting Council – Development and Management Plan Update No. 3
PSEG Bridgeport Harbor Station Unit 5
Petition No. 1218 (Approved July 21, 2016)
February 28, 2019

The revisions included in this D&MP Update No. 3 do not result in any significant changes to the appearance or function of the new plant and are consistent with the applicable City of Bridgeport Building Permits. They do not result in:

- Any re-arrangement of facilities or structures excepting for minor adjustments in plan location to address construction requirements;
- Any change to the height or location of the plant Heat Recovery Steam Generator stack or the auxiliary boiler stack;
- A change in the Project's Limit of Disturbance;
- Additional or different environmental impacts;
- A change in EMF conclusions or values;
- Changes to previously defined offsite impacts;
- An increase in the drainage area associated with the stormwater system; or
- A change in the stormwater outfall or flows.

To summarize, based on our assessment of the project at this time, the enclosed plant design drawings substantially reflect the final design plans for the Facility and are provided to CSC staff for review and approval as D&MP Update No. 3.

Exhibits

- 1. Ammonia Tank / Unloading Area Containment Design**
- 2. Water Balance Diagram**
- 3. Onsite Underground Utility Design and Site Finishing / Grading Plans**
- 4. General Arrangement and Foundation Plan Update**

Connecticut Siting Council – Development and Management Plan Update No. 3
PSEG Bridgeport Harbor Station Unit 5
Petition No. 1218 (Approved July 21, 2016)
February 28, 2019

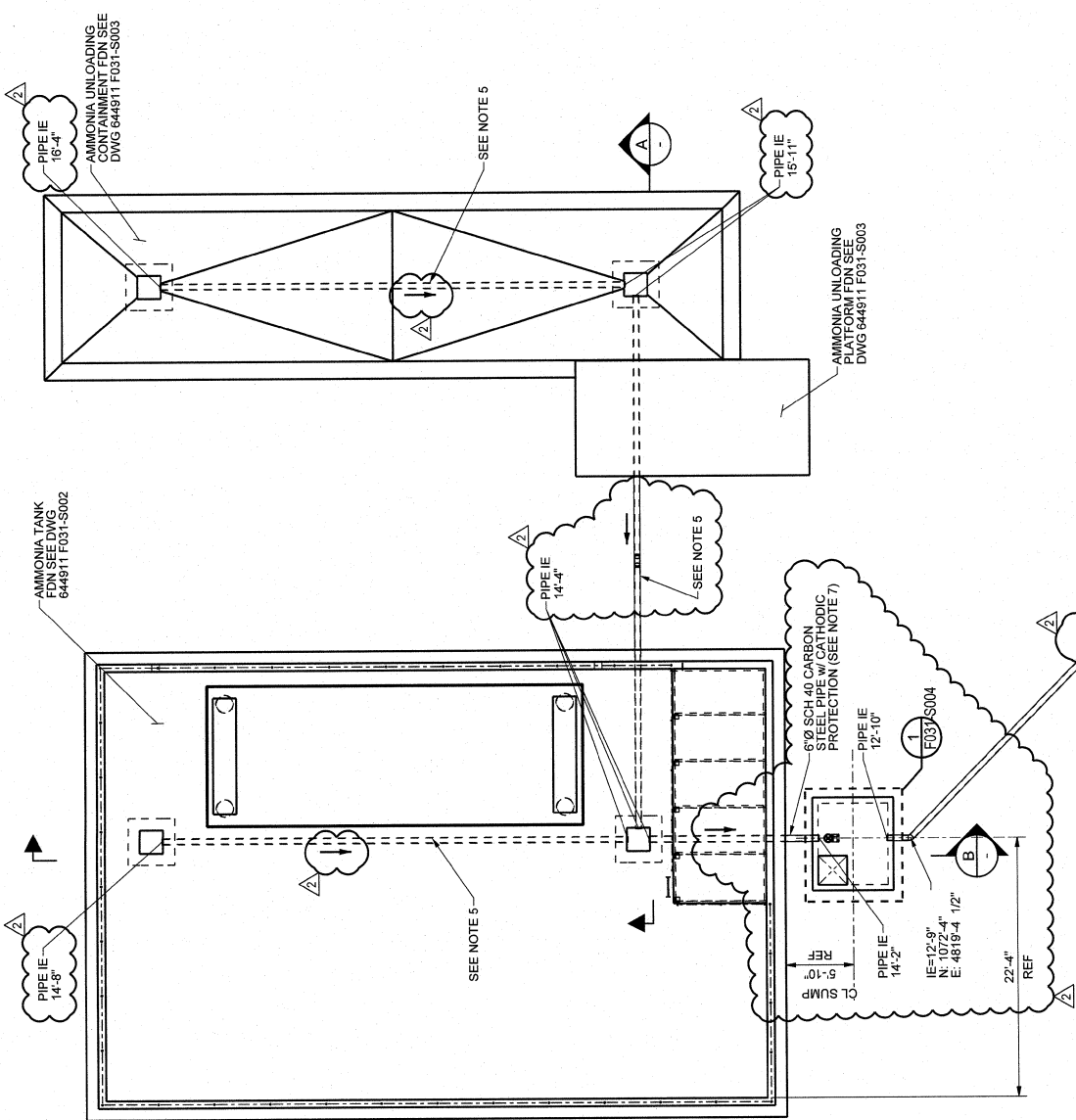
Exhibit 1 Ammonia Tank / Unloading Area Containment Design

The ammonia tank and unloading area containment design and drawing have been revised to avoid construction interferences with the temporary access ramp in the southwest corner of the site. As originally designed, the containment would have precluded safe use of the ramp. The changes reduce the footprint of portions of the containment to avoid the interferences, but retain the required containment capacity.

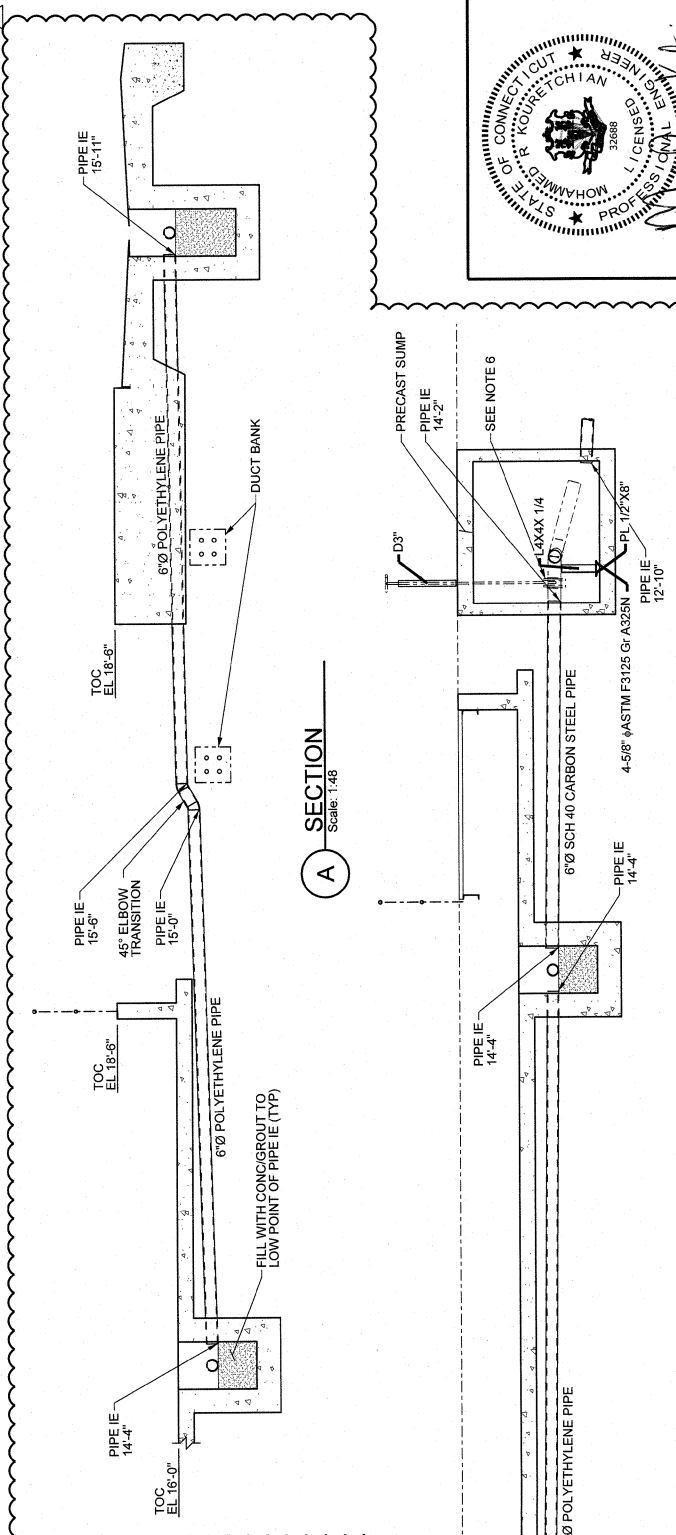
<u>Drawing No.</u>	<u>Rev.</u>	<u>Drawing Title</u>
644911 F031-S001	2	Ammonia Area – Pipe Elevation and Foundation Plan Sheet 1 of 4
644911 F031-S002	4	Ammonia Area – Ammonia Tank Foundation Sheet 2 of 4
644911 F031-S003	3	Ammonia Area – Ammonia Unloading Platform Fdn Sheet 3 of 4
644911 F031-S004	2	Ammonia Area – Ammonia Vault Foundation Sheet 4 of 4
644911 GA013-S001	0	Plant Layout Ammonia Storage Area General Arrangement

A B C D E F

1 2 3 4 5



AMMONIA AREA PIPING & FOUNDATION PLAN
SCALE: 1/8"



SECTION A
Scale: 1/48

SECTION B
Scale: 1/48

- GENERAL NOTES:**
1. SEE DRAWING 644911 S001-S001 FOR STRUCTURAL DESIGN NOTES.
 2. FOR STANDARD CONCRETE DETAILS SEE DRAWING 644911 F001-S001.
 3. FOR UNDERGROUND ELECTRICAL SEE DRAWING 644911 E303-S001
 4. FOR UNDERGROUND PIPING SEE DRAWING 644911 P200-S001
 5. PIPE TO CONSIST OF 6" ASTM F714 POLYETHYLENE PIPE HAVING A MINIMUM WALL THICKNESS OF 0.406" UNLESS NOTED.
 6. FOR VALVE INFORMATION SEE P&ID DWG 644911-5WVWD-M284C
 7. FOR UNDERGROUND PIPING CATHODIC PROTECTION DETAILS SEE DRAWING 644911 P233-S001

LEGEND:

REFERENCE DWGS:

REFERENCE SPECS:

ORIGINAL

ADDED/REVISED INVERT ELEVATIONS									
Δ 9/15/18	BS	CS	CS	CS	LA	SF	SO		
REVISED FOUNDATION, ADDED EMBED PL'S									
Δ 04/09/2018	BS	CS	CS	CS	LA	SF	SO		
ISSUED FOR CONSTRUCTION									
Δ 11/10/2017	AS	GS	GS	GS	LA	SF	SO		
REVISION	DATE	BY	CHECKED	APPROVED	PROJ. TECH.	DIR. TECH.	PROJ. MGR.		

PROJECT ENGINEERING DIVISION
PSEG
Power Generation LLC

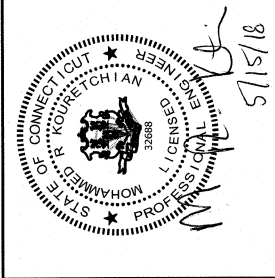
SNC • LAVALIN
CONSTRUCTORS INC.

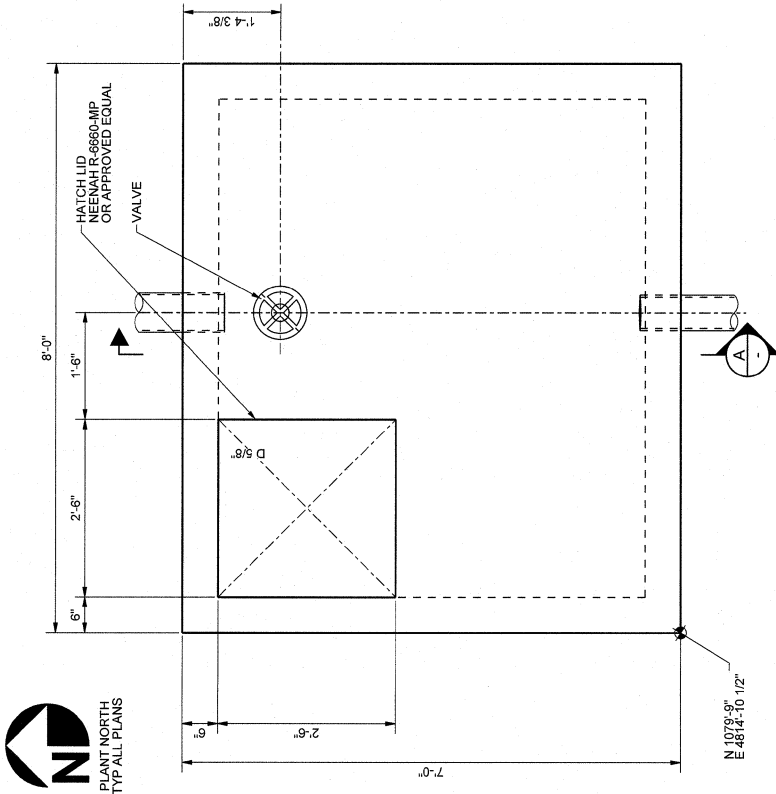
SCALE: AS NOTED

BRIDGEPORT 05

AMMONIA AREA
PIPE ELEVATION & FOUNDATION PLAN
SHT 1 OF 4

DESIGN-CIVIL CONCRETE
644911 F031-S001

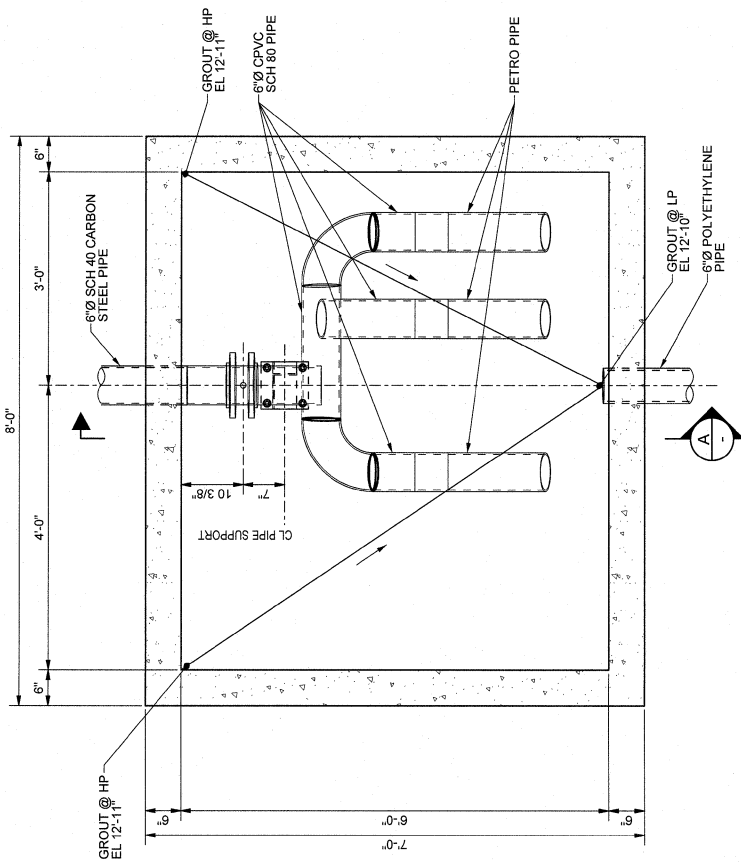




1

DETAIL

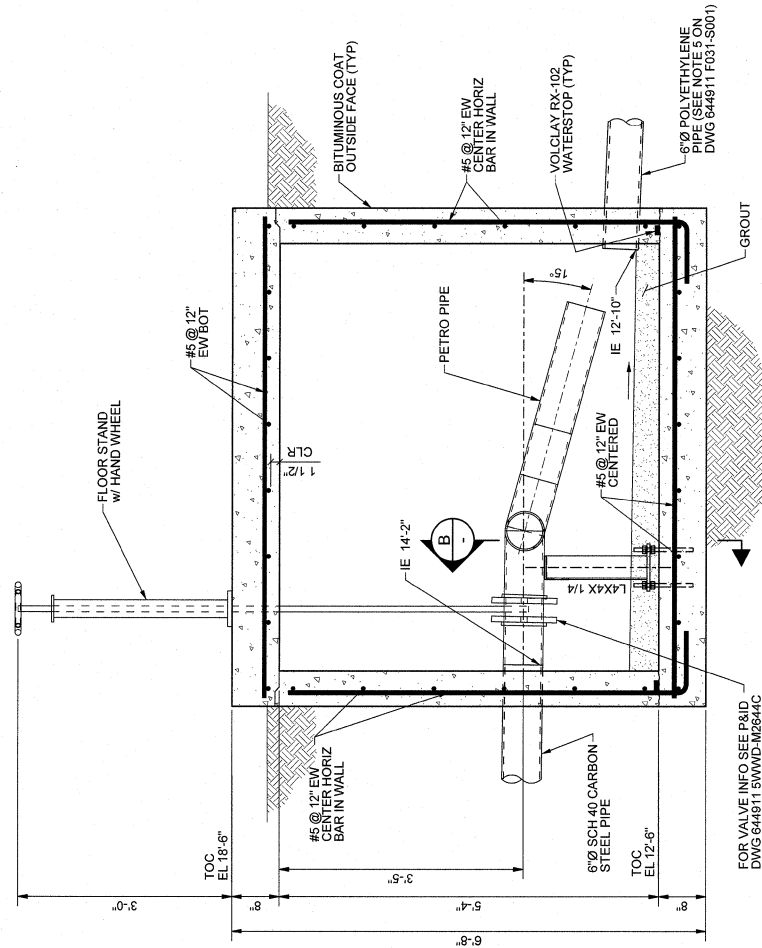
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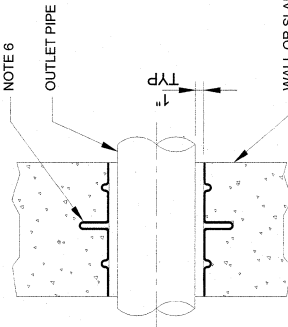
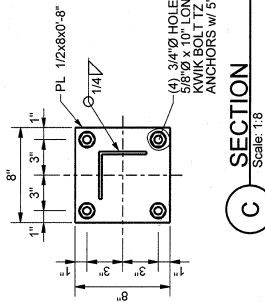
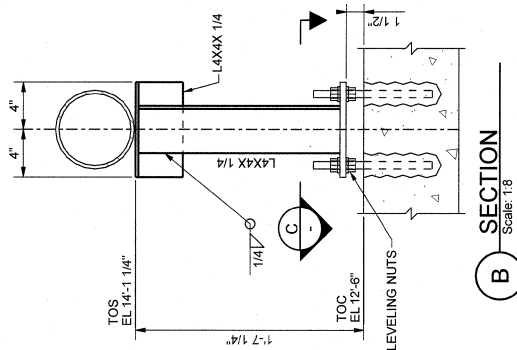
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DETAIL

Scale: 1:16



SECTION
Scale: 1:16



—(4) 3/4"Ø HOLES FOR 5/8"Ø x 10" LONG HILTI KWIK BOLT TZ EXPANSION ANCHORS w/ 5" PROJ

TY
NTS

TYPICAL PIPE PENETRATION DETAIL
NTS

GENERAL NOTES:

1. SEE DRAWING 644911 S001-S001 FOR STRUCTURAL DESIGN NOTES.
2. FOR STANDARD CONCRETE DETAILS SEE DRAWING 644911 F001-S001.
3. FOR UNDERGROUND ELECTRICAL SEE DRAWING 644911 E303-S001
4. FOR UNDERGROUND PIPING SEE DRAWING 644911 P200-S001
5. COVER LIVE LOAD = 200 PSF

LEGEND:

REFERENCE DWGS:

REFERENCE SPECS:

ORGAN

	REVISION	DATE	BY	CHECKED	APPROVED	(PROJ. TECH.)	D.R. TECH.	(PROJ. MGR.)
			AS	SS	GG	S	%	SO

ISSUED FOR CONSTRUCTION

04/09/2018	BS	GG	GG	YA	SP	SO
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VAULT DELETED

7/17/18	BS	CL	CL	ZK	SS	d
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ADDED SUMP

PROJECT ENGINEERING DIVISION
PSEG

SNC • LAVALIN
CONSTRUCTORS INC.

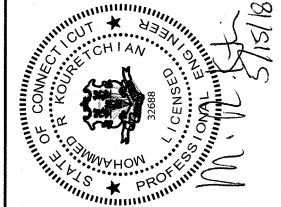
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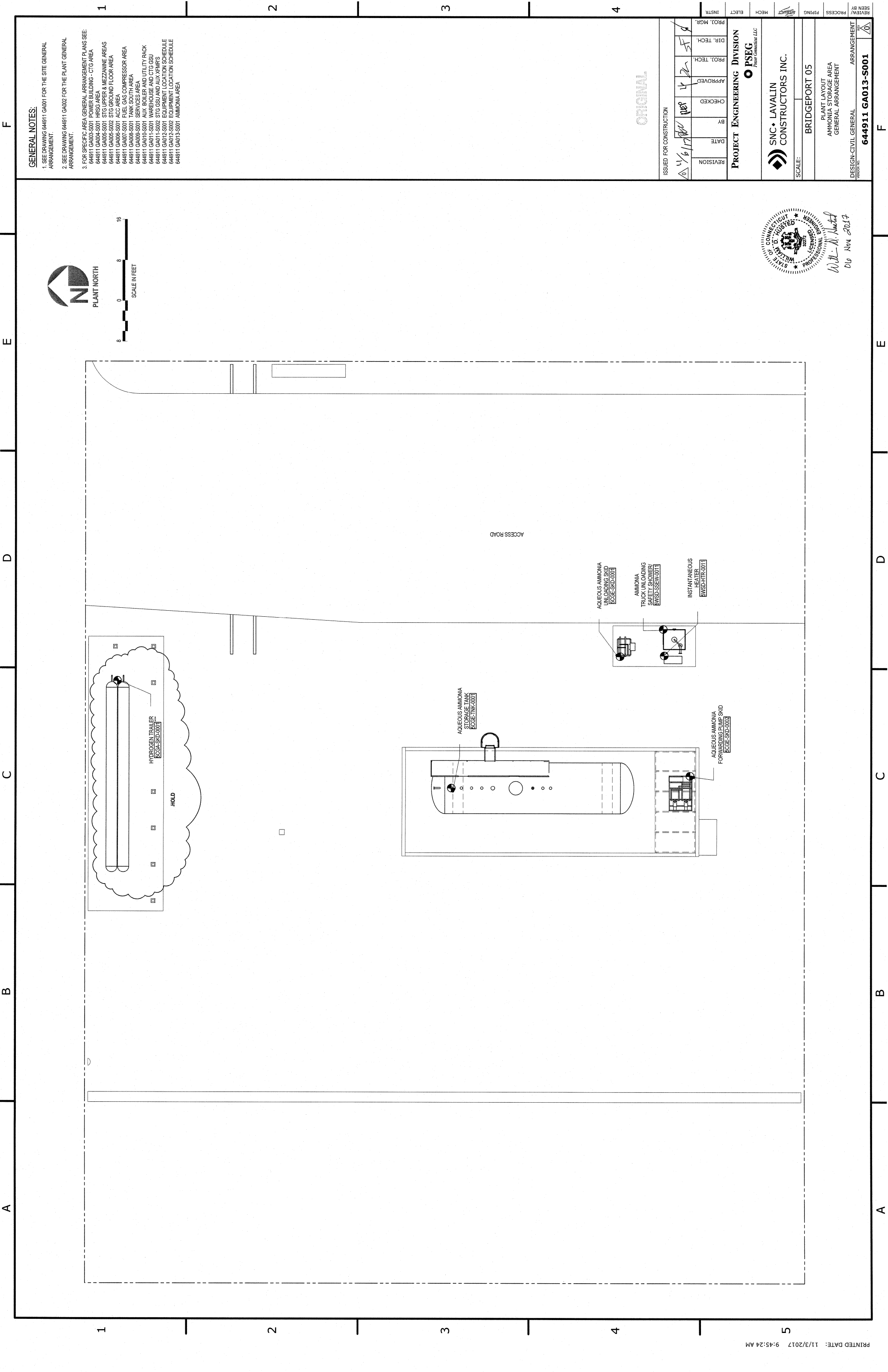
BR:

AMMONIA AREA
AMMONIA VAULT FOUNDATION

SHT 4 OF 4

PLAN	DESIG-CIVIL CONCRETE
VENDOR NO.	REV
644911 F031-S004	2





A

B

C

D

E

F

A


B

C

D

E

F









REVIEW BY:  644911 GA013-S001
DESIGN-CIVIL GENERAL ARRANGEMENT









PROCESS: PLANT LAYOUT
AMMONIA STORAGE AREA
GENERAL ARRANGEMENT

PIPING: BRIDGEPORT 05

MECH:  SNC• LAVALIN
CONSTRUCTORS INC.

ELECT: PROJECT ENGINEERING DIVISION
PSEG
Power Constructors LLC

PROJ. MGR.:  DIR. TECH.:  PROJ. TECH.:  APPROVED:  CHECKED:  BY:  DATE:  REVISION: 

ISSUED FOR CONSTRUCTION
11/6/17        

ORIGINAL

GENERAL NOTES:
1. SEE DRAWING 644911 GA001 FOR THE SITE GENERAL ARRANGEMENT.
2. SEE DRAWING 644911 GA002 FOR THE PLANT GENERAL ARRANGEMENT.
3. FOR SPECIFIC AREA GENERAL ARRANGEMENT PLANS SEE:
644911 GA003-S001 POWER BUILDING - CTG AREA
644911 GA004-S001 HRSG AREA
644911 GA005-S001 STG UPPER & MEZZANINE AREAS
644911 GA006-S001 STG GROUND FLOOR AREA
644911 GA007-S001 FUEL GAS COMPRESSOR AREA
644911 GA008-S001 TANK SOUTH AREA
644911 GA009-S001 SERVICES AREA
644911 GA010-S001 AUX. BOILER AND UTILITY RACK
644911 GA011-S001 WAREHOUSE AND CTG GSU
644911 GA012-S001 STG GSU AND AUX XFMRS
644911 GA013-S001 EQUIPMENT LOCATION SCHEDULE
644911 GA014-S001 AMMONIA AREA

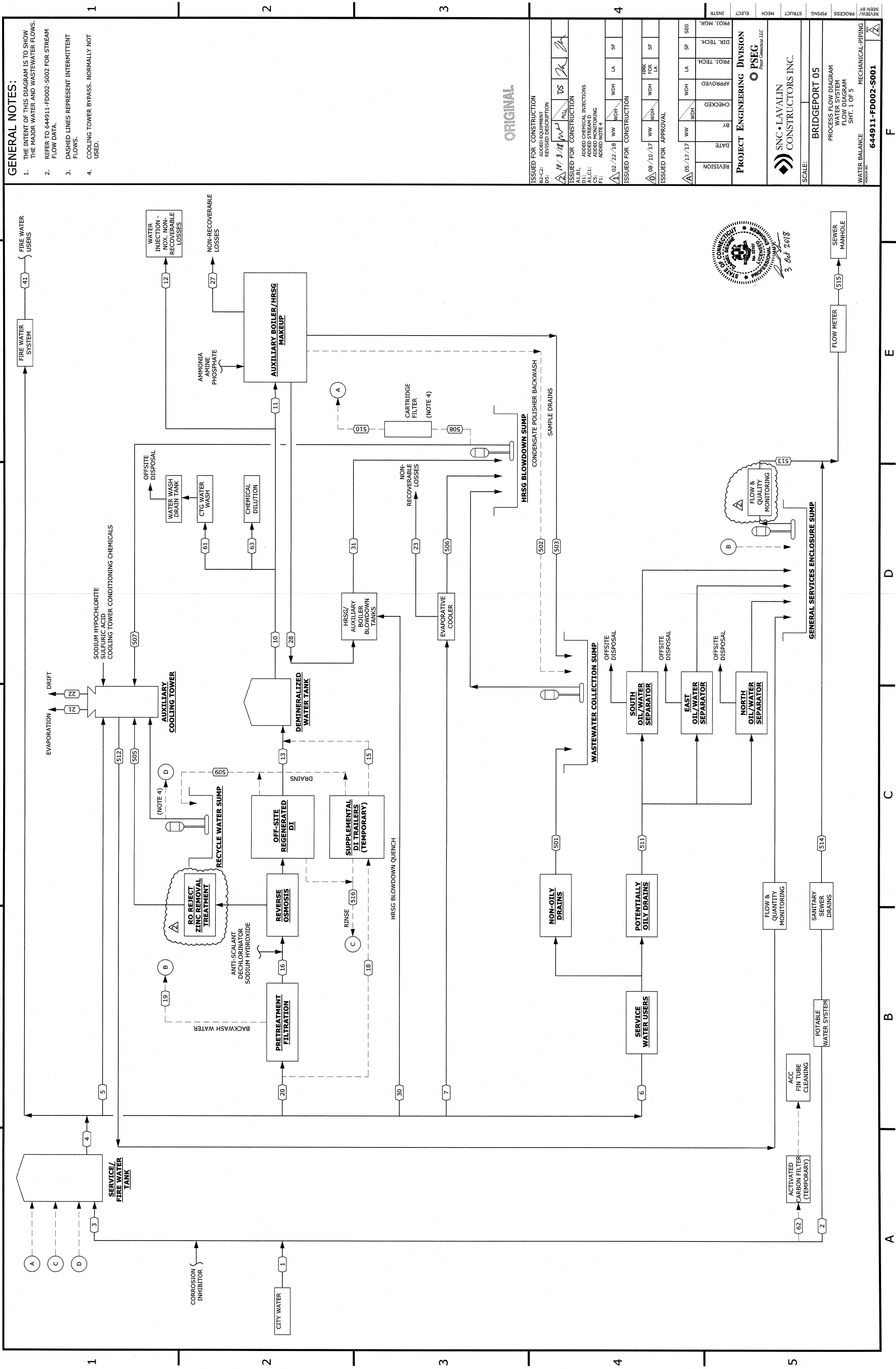
Connecticut Siting Council – Development and Management Plan Update No. 3
PSEG Bridgeport Harbor Station Unit 5
Petition No. 1218 (Approved July 21, 2016)
February 28, 2019

Exhibit 2 Water Balance Diagram

The BHS 5 Water Balance Diagram has been revised to:

1. Reflect sampling points anticipated to be required by the Connecticut Department of Energy and Environmental Protection's (CT DEEP) Individual Pre-Treatment Permit (i.e. Industrial Wastewater Discharge Permit No. SP0002474 authorizing discharges to the City of Bridgeport's Water Pollution Control Authority) when issued; and
2. Add zinc removal capability on the Reverse Osmosis reject water line to assure long-term compliance with the above referenced Individual Pre-Treatment Permit No. SP0002474.

<u>Drawing No.</u>	<u>Rev.</u>	<u>Drawing Title</u>
644911-FD002-S001	2	Water Mass Balance Water System Flow Diagram Sheet 1
644911-FD002-S002	2	Water Mass Balance Water System Flow Diagram Sheet 2
644911-FD002-S003	1	Water Mass Balance Water System Flow Diagram Sheet 3
644911-FD002-S004	1	Water Mass Balance Water System Flow Diagram Sheet 4
644911-FD002-S005	2	Water Mass Balance Water System Flow Diagram Sheet 5



GENERAL NOTES:

1. INDICATED FLOWS RATES MAY NOT BALANCE DUE TO ROUNDING.

2. QUENCHED BLOWDOWN TEMPERATURE EQUAL OR LESS THAN 140 DEGREES F.

3. ASSUMED 85% RO RECOVERY. RO REJECT WILL BE TREATED WITH ZINC REMOVAL ION EXCHANGER WHEN THE PLANT RUNS ON FUEL OIL OPERATION. (LOW AMBIENT, CASE 3 & 6).

4. 6 CYCLES OF CONCENTRATION.

FOR WASTEWATER PERMIT APPLICATION

Stream no.	Description	Unit	Low Ambient Case	CASE 1	CASE 2	CASE 3	CASE 4	CASE 5	CASE 6	Remarks
	Ambient temperature		USLD, EC off, DF ON, 100% GT load	59 F / 60% RH	90 F / 70% RH	USLD, EC off, DF Off, 100% GT load	90 F / 70% RH	59 F / 60% RH	USLD, EC Off DF ON, 100% GT load	
	HRSG & Heat balance Case no.		56 & CCA20146	Case 1 (HRSG & Heat balance CCA20095	Case 2 (HRSG & Heat balance CCA20081	Case 3 (HRSG & Heat balance CCA20139	Case 4 (HRSG & Heat balance CCA20081	Case 5 (HRSG & Heat balance CCA20004	Case 6 (HRSG & Heat balance CCA20138	
1	City water supply	gpm	583	120	168	616	170	143	621	
2	Potable water network	gpm	2	2	2	2	2	2	2	
3	Supply to Service/Fire water tank	gpm	581	118	166	614	168	141	619	
4	service water demand	gpm	616	118	166	645	168	141	655	
5	Service water makeup to CT makeup	gpm	8	67	81	31	83	62	32	
6	Service water for misc. uses	gpm	7	7	7	7	7	7	7	
7	Supply to CTG evap cooler	gpm	0	0	23	0	23	20	0	
	Total steam rate	lb/h	1,072,600	821,700	1,032,100	812,500	1,028,000	993,100	1,002,500	
11	Boiler makeup	gpm	38	29	36	28	36	35	35	
12	Nox Water	gpm	493	0	0	0	0	0	0	
10	Total demin water	gpm	531	29	36	537	36	35	544	
13	Leased RO/DI trailers, permeate	gpm	300	29	36	300	36	35	300	
15	Supplement DI trailer, min flow	gpm	231	0	0	0	0	0	244	
16	Leased RO/DI trailers, feed	gpm	353	34	42	353	42	41	353	
18	Supplement DI trailer, feed	gpm	237	0	0	244	0	0	251	
19	Water pretreatment backwash	gpm	1	1	1	1	1	1	1	
20	Total supply to water treatment	gpm	591	35	43	598	43	42	605	
21	CT evaporation	gpm	46	86	105	68	105	86	68	
	CT makeup from all sources	gpm	64	100	124	87	126	103	89	
	CT Cycles of concentration		3.5	7.0	6.5	4.5	6.0	6.0	4.3	
22	CT Drift	gpm	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
23	CTG evap cooler evaporation	gpm	0	0	19	0	19	17	0	
27	Misc losses from w/s cycle	gpm	11.8	8.0	11.2	7.9	11.1	10.6	10.7	
28	HRSG blowdown	gpm	21	16	21	16	21	20	20	
	Blowdown, after flashing	gpm	13	10	12	10	12	12	12	1% Blowdown
30	Quench water, gpm	gpm	10	9	11	9	11	11	11	
31	To blowdown sump	gpm	23	19	24	19	24	23	23	NOTE 2
41	Fire water system	gpm	0	0	0	0	0	0	0	
61	Demin water to CTG water wash	gpm	0	0	0	0	0	0	0	
62	Demin water to ACC fin tube cleaning	gpm	0	0	0	0	0	0	0	
63	Demin water to chemical dilution	gpm	0	0	0	0	0	0	0	
501	Non oily wastewater	gpm	5	5	5	5	5	5	5	
502	Condensate polisher backwash	gpm	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
503	sample panel drains	gpm	4	4	4	4	4	4	4	
505	RO reject	gpm	53	5	6	53	6	6	53	NOTE 3
506	Evaporative cooler blowdown	gpm	0	0	4	0	4	3	0	NOTE 4
	Total from blowdown sump	gpm	0	28	37	28	37	35	32	
507	Recycle to CT basin from BO sump	gpm	0	28	37	0	37	35	0	
508	To cartridge filters	gpm	32	0	0	28	0	0	32	
509	Recycle water sump	gpm	4	0	0	4	0	0	4	
510	Recycle to S/F water tank	gpm	32	0	0	28	0	0	32	
511	Oily wastewater	gpm	2	2	2	2	2	2	2	
512	CT blowdown	gpm	18	14	19	19	21	17	21	
	Temperature	degree F	41	67	91	54	91	67	54	
512	Total dissolved solids	mg/l	2494	1034	1061	2480	975	1026	2437	
512	Total suspended solids	mg/l	4	7	7	5	7	7	2	
512	Zinc	mg/l	0.23	0.80	0.85	0.34	0.78	0.80	0.32	
513	Plant process wastewater, Final	gpm	21	17	22	22	24	20	24	
513	Temperature	degree F	44	66	87	55	87	66	55	
513	Total dissolved solids	mg/l	2179	897	950	2180	883	909	2159	
513	Total suspended solids	mg/l	15	21	18	15	17	19	12	
513	Zinc	mg/l	0.22	0.68	0.75	0.31	0.70	0.70	0.29	
514	Sanitary wastewater	gpm	2	2	2	2	2	2	2	
515	Total wastewater	gpm	23.4	19.3	24.1	24.4	26.0	22.2	25.6	
515	Temperature	degree F	41	65	87	51	87	66	51	
515	Total dissolved solids	mg/l	2022	840	899	2030	842	858	2017	
515	Total suspended solids	mg/l	34	44	36	34	34	39	30	
515	Zinc	mg/l	0.21	0.63	0.70	0.29	0.66	0.65	0.28	
516	Rinse water recycle to service/fire water tank	gpm	2.9	0	0	2.9	0	0	2.9	



SNC • LAVALIN
CONSTRUCTORS INC.

PROJECT ENGINEERING DIVISION
PSEG
Power Systems Engineering LLC

REVISION	DATE	BY	CHECKED	APPROVED	PROJ. TECH.	DIR. TECH.
1	05/17/17	WW	WDH	WDH	LA	SF

ISSUED FOR APPROVAL	08/10/17	WW	WDH	WDH	LA	SF
---------------------	----------	----	-----	-----	----	----

ISSUED FOR CONSTRUCTION	08/15/17	WW	WDH	WDH	LA	SF
-------------------------	----------	----	-----	-----	----	----

ISSUED FOR CONSTRUCTION	10/3/18	WW	WDH	WDH	LA	SF
-------------------------	---------	----	-----	-----	----	----

ORIGINAL

**Connecticut Siting Council – Development and Management Plan Update No. 3
PSEG Bridgeport Harbor Station Unit 5
Petition No. 1218 (Approved July 21, 2016)
February 28, 2019**

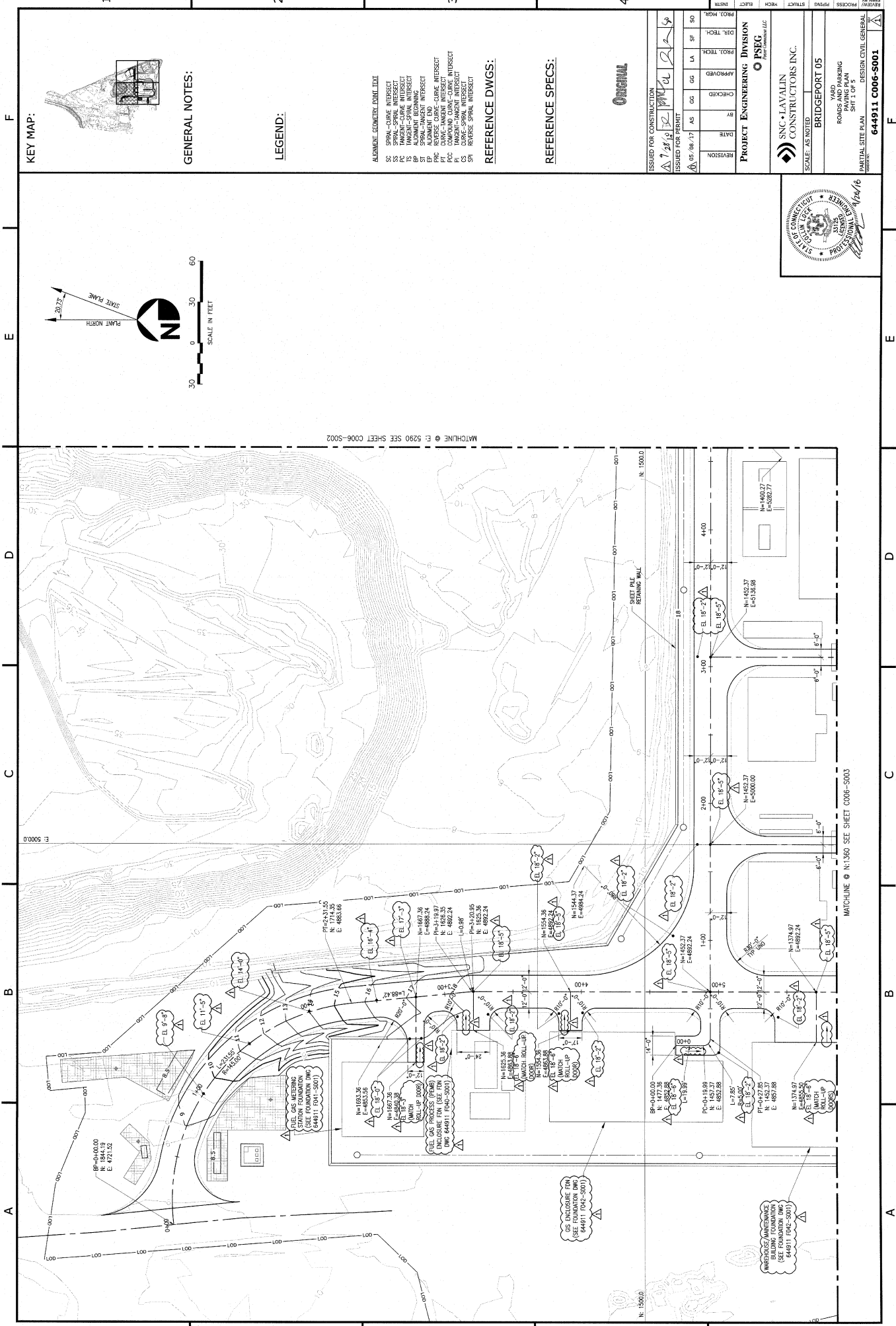
Exhibit 3 Onsite Underground Utility Design, Site Finishing, and Grading Plans

Revisions to paving / grading, site finishes and on-site underground utility drawings to reflect minor changes made during construction:

<u>Drawing No.</u>	<u>Rev.</u>	<u>Drawing Title</u>
644911 C006-S001	1	Yard Roads and Paving – Paving Plan Sheet 1 of 5
644911 C006-S002	1	Yard Roads and Paving – Paving Plan Sheet 2 of 5
644911 C006-S003	1	Yard Roads and Paving – Paving Plan Sheet 3 of 5
644911 C006-S004	1	Yard Roads and Paving – Paving Plan Sheet 4 of 5
644911 C006-S005	1	Yard Roads and Paving – Paving Plan Sheet 5 of 5
644911-P200-S001	1	Yard Underground Piping Plan
644911-P201-S001	2	Yard Underground Piping Plan Area 1
644911-P202-S001	1	Yard Underground Piping Plan Area 2
644911-P203-S001	3	Yard Underground Piping Plan Area 3
644911-P204-S001	2	Yard Underground Piping Plan Area 4
644911-P205-S001	5	Yard Underground Piping Plan Area 6
644911-P206-S001	1	Yard Underground Piping Plan Area 6
644911-P207-S001	1	Yard Underground Piping Plan Area 7
644911-P208-S001	3	Yard Underground Piping Plan Area 8
644911-P209-S001	3	Yard Underground Piping Plan Area 9
644911-P210-S001	3	Yard Underground Piping Plan Area 10
644911-P211-S001	3	Yard Underground Piping Plan Area 11
644911-P212-S001	6	Yard Underground Piping Plan Area 12
644911-P213-S001	4	Yard Underground Piping Plan Area 13

**Connecticut Siting Council – Development and Management Plan Update No. 3
PSEG Bridgeport Harbor Station Unit 5
Petition No. 1218 (Approved July 21, 2016)
February 28, 2019**

644911-P214-S001	5	Yard Underground Piping Plan Area 14
644911-P215-S001	0	Yard Underground Piping Plan Area 15
644911-P216-S001	4	Yard Underground Piping Plan Area 16
644911-P217-S001	5	Yard Underground Piping Plan Area 17
644911-P218-S001	5	Yard Underground Piping Plan Area 10
644911-P219-S001	5	Yard Underground Piping Plan Area 19
644911-P220-S001	2	Yard Underground Piping Plan Area 20
644911-P221-S001	5	Yard Underground Piping Plan Area 21
644911-P222-S001	7	Yard Underground Piping Plan Area 22
644911-P223-S001	2	Yard Underground Piping Plan Area 23
644911-P224-S001	4	Yard Underground Piping Plan Area 24
644911-P225-S001	1	Yard Underground Piping Plan Area 25
644911-P226-S001	3	Yard Underground Piping Plan Area 26
644911-P227-S001	1	Yard Underground Piping Plan Area 27
644911-P230-S001	1	Underground Piping Bedding Details
644911-P231-S001	2	Underground Piping Details
644911-P232-S001	1	Underground Piping Cathodic Protection Details
644911-P233-S001	3	Underground Fire Protection Piping Firewater Loop
644911-P233-S002	0	Underground Fire Protection Piping Sections and Details



KEY MAP:

GENERAL NOTES:

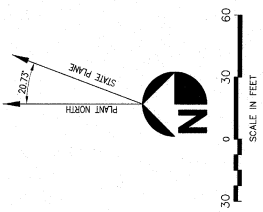
LEGEND:

ALIGNMENT GEOMETRIC CONTROL DATA
SS SPINAL-CURVE INTERSECT
SS SPINAL-SPINAL INTERSECT
TS TANGENT-SPINAL INTERSECT
TS TANGENT-TANGENT INTERSECT
EP ALIGNMENT BEGINNING
EP ALIGNMENT END
PRC REVERSE CURVE-CURVE INTERSECT
PRC REVERSE CURVE-SPINAL INTERSECT
PCC COMPOUND CURVE-CURVE INTERSECT
PCC COMPOUND CURVE-SPINAL INTERSECT
EC TANGENT-TANGENT INTERSECT
EC TANGENT-SPINAL INTERSECT
SN REVERSE SPINAL INTERSECT

REFERENCE DWGS:

REFERENCE SPECS:

ORIGINAL



SNC-LAYALIN
CONSTRUCTORS INC.

PROJECT ENGINEERING DIVISION
PSEG
PROJECT MANAGER LLC

BRIDGEPORT 05

ROADS AND PARKING
BRIDGEPORT 05
SHEET 1 OF 5

PARTIAL SITE PLAN
DESIGN CIVIL GENERAL
644911 C006-S001

MATCHLINE @ N: 1360 SEE SHEET C006-S003

MATCHLINE @ N: 5290 SEE SHEET C006-S002



GENERAL NOTES:

1. FOR NOTES SEE DWG C006-S000

REFERENCE DWGS:

REFERENCE SPECS:

Original

ISSUED FOR CONSTRUCTION					ISSUED FOR PERMIT					
A	28	18	12	12	AS	GG	GG	LA	SF	SO

PROJECT ENGINEERING DIVISION
PSEG
BETHLEHEM, PA



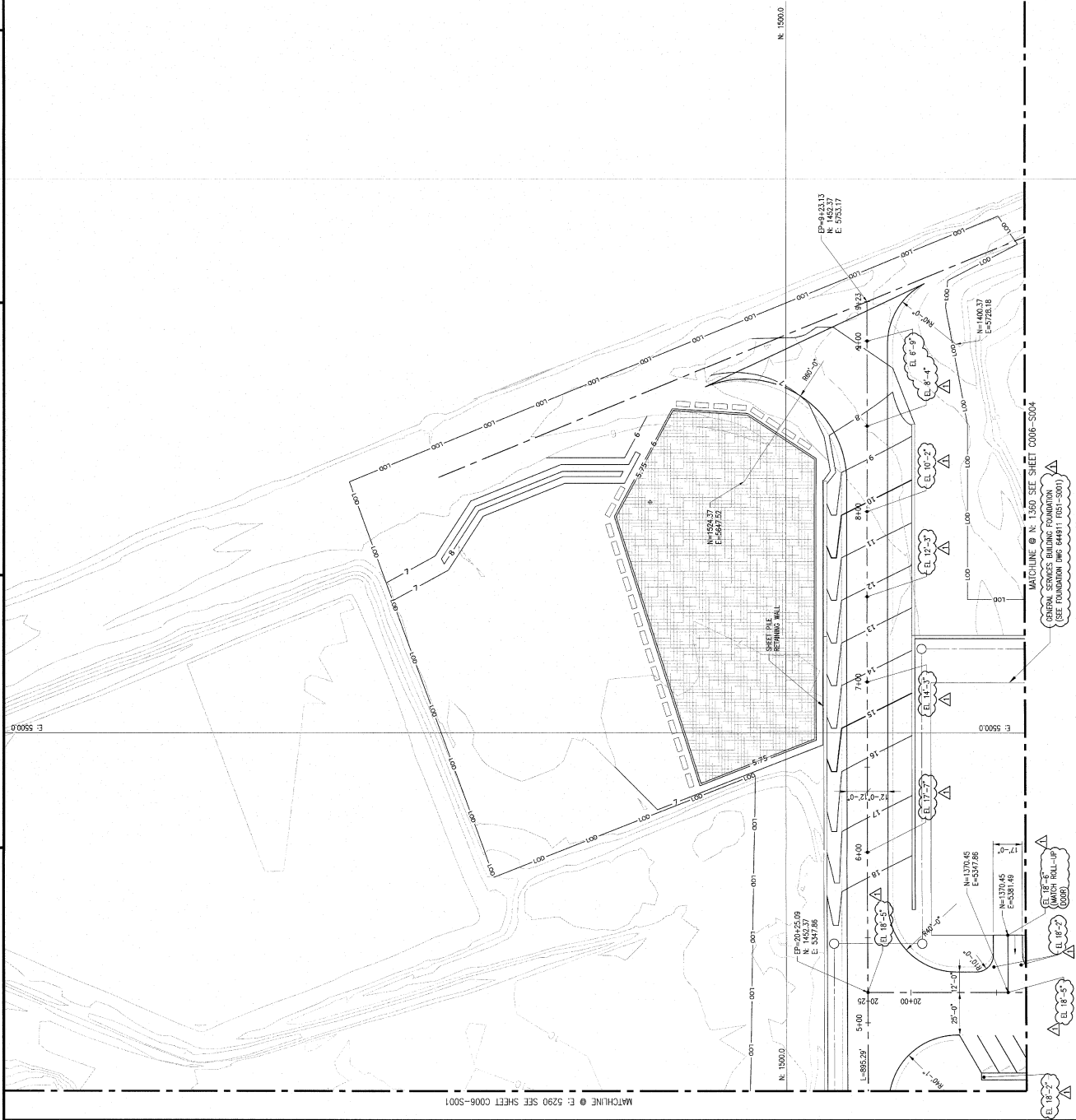
SNC • LAVALIN
CONSTRUCTORS INC.

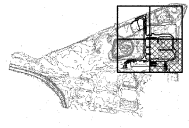
SCALE: AS NOTED	
BRIDGEPORT 05	

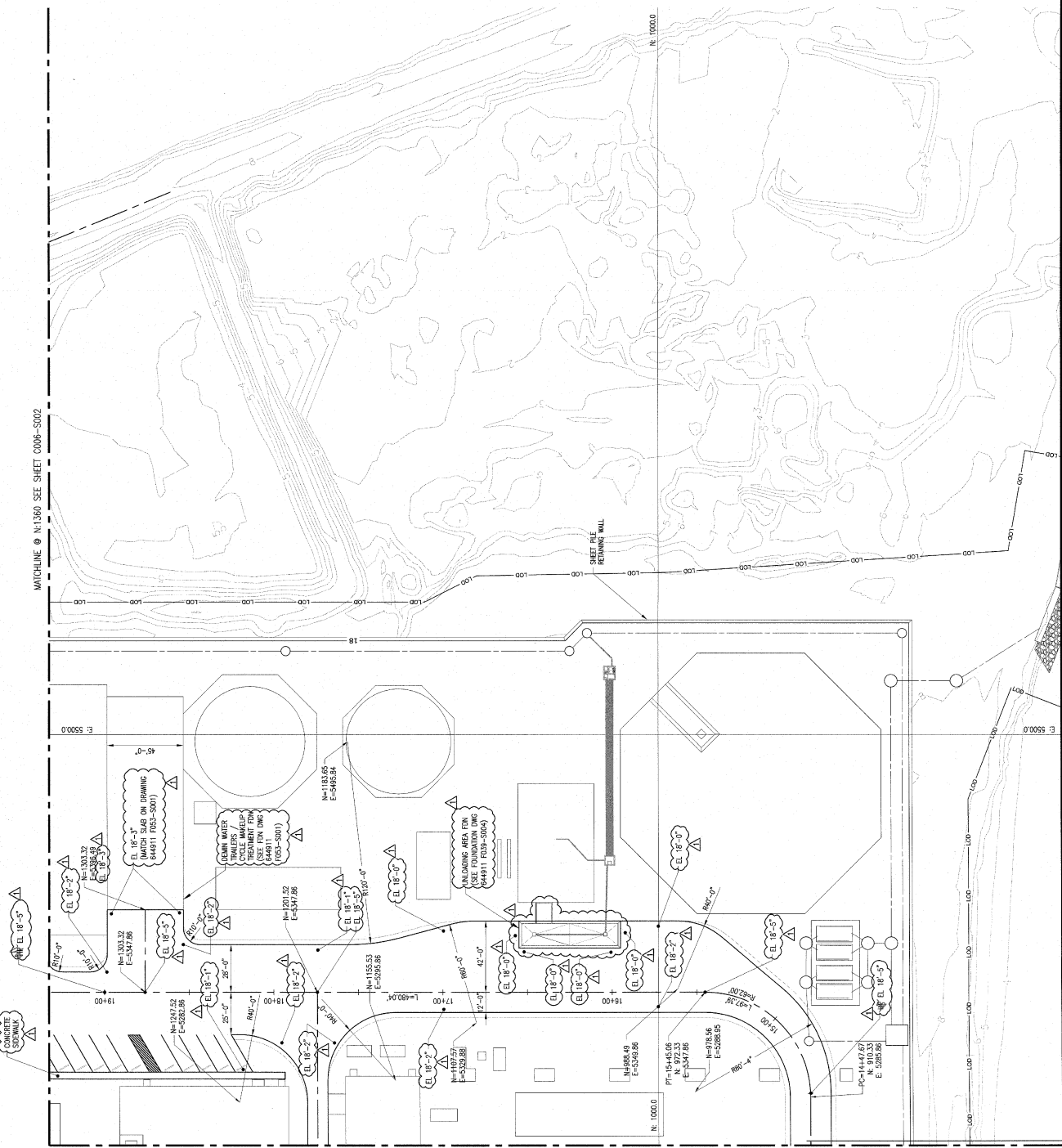
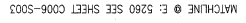
YARD
ROADS AND PARKING
PAVING PLAN

SHEET 2 OF 5
 PARTIAL SITE PLAN
 DESIGN CIVIL
 644911 C006-S002

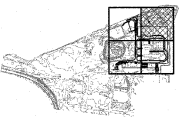
544911 C006-S002







KEY MAP:



GENERAL NOTES:

1. FOR NOTES SEE DWG C006-S001

LEGEND:

REFERENCE DWGS:

REFERENCE SPECS:

Original

ISSUED FOR CONSTRUCTION		A7/28/18		PM	2	2	6
ISSUED FOR PERMIT		A		05/08/17	AS	GG	GG
						LA	SO

PROJ. MGR.	DIR. TECH.	PROJ. TECH.	APPROVED	CHECKED	BY	DATE	REVISION
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SNC • LAVALIN
CONSTRUCTORS INC.

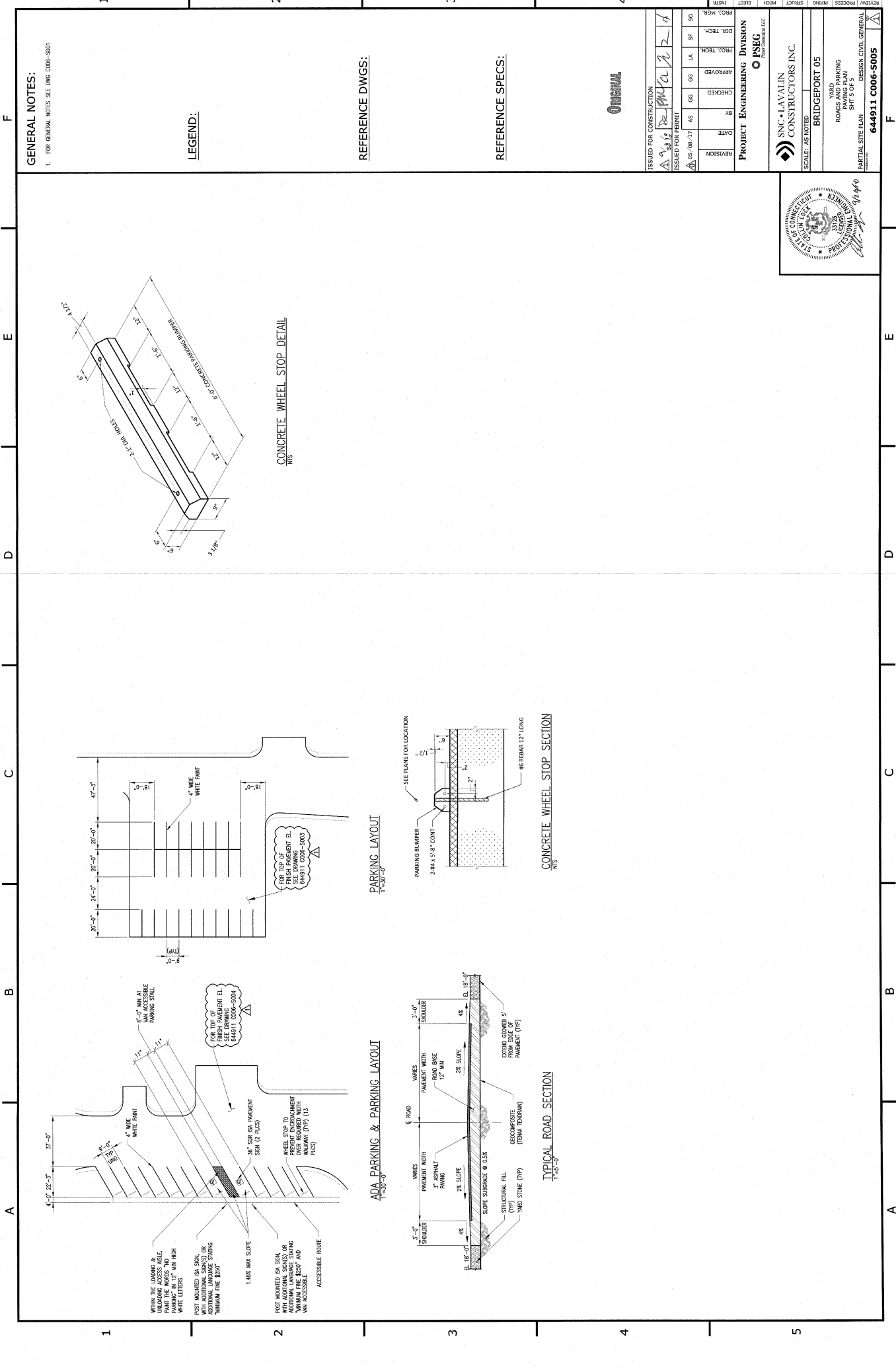
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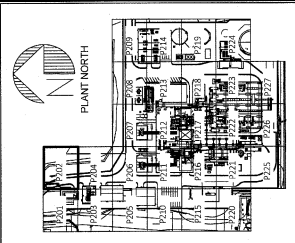
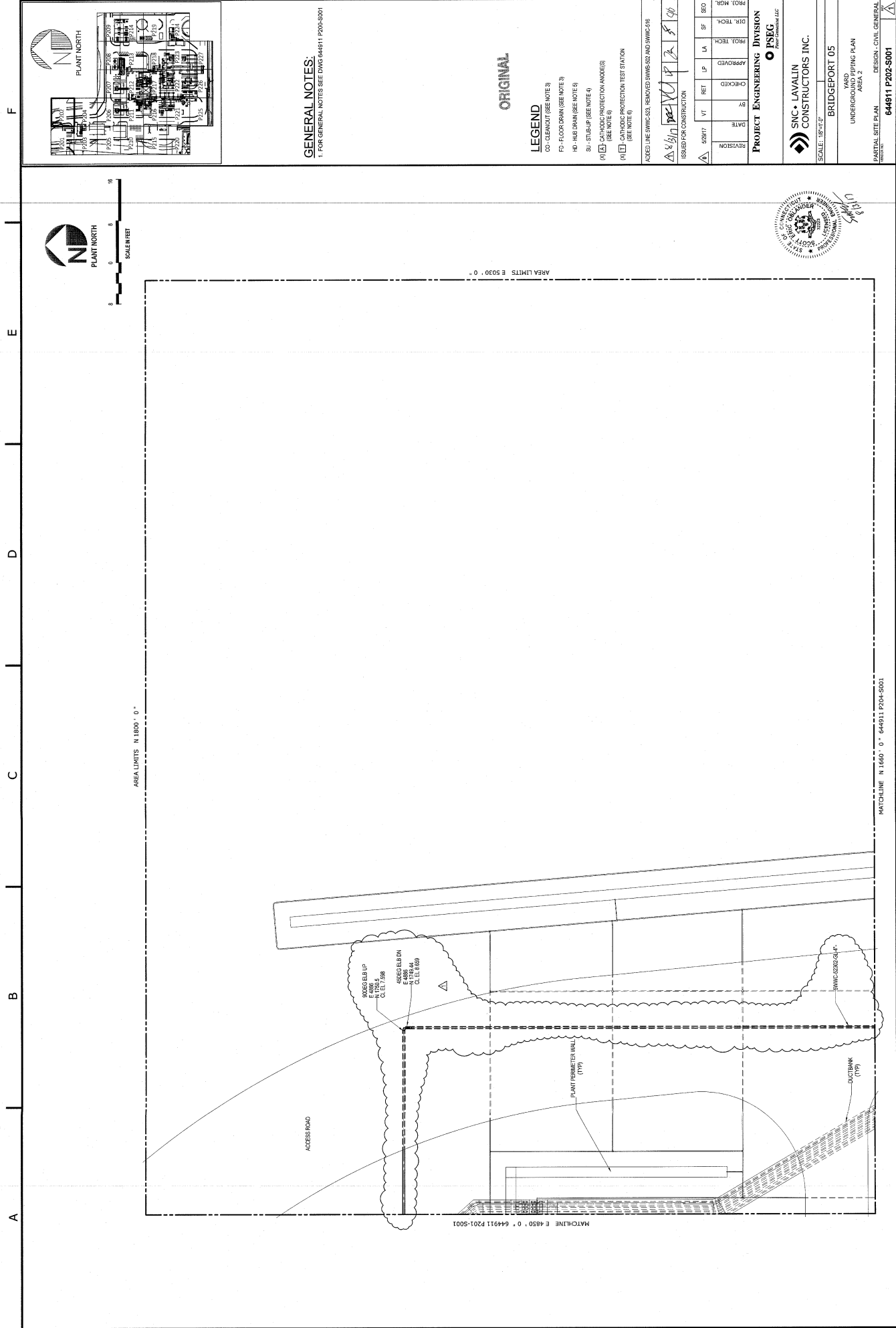
BRIDGEPORT 05

YARD
ROADS AND PARKING
PAVING PLAN

SHT 4 OF 5
 PARTIAL SITE PLAN
 DESIGN CIVIL GENERAL
 644911 C006-S004
 1







GENERAL NOTES:
1. FOR GENERAL NOTES SEE DWG 644911 P200-5001

ORIGINAL

- LEGEND**
- CO - CLEANOUT (SEE NOTE 3)
 - FD - FLOOR DRAIN (SEE NOTE 3)
 - HD - HUB DRAIN (SEE NOTE 3)
 - SD - STUB-UP (SEE NOTE 4)
 - (M) - CATHODIC PROTECTION ANODES (SEE NOTE 5)
 - (P) - CATHODIC PROTECTION TEST STATION (SEE NOTE 6)

ADDED LINE S.W.W.C. 503, REMOVED S.W.W.C. 502 AND S.W.W.C. 516

ISSUED FOR CONSTRUCTION

DATE	BY	CHECKED	APPROVED	PROJ. TECH.	DIST. TECH.	MECH.
8/1/17	WJ	WJ	WJ	WJ	WJ	WJ

PROJECT ENGINEERING DIVISION
PSEC

SNC • LAVALIN
CONSTRUCTORS INC.

SCALE: 1/8" = 1'-0"

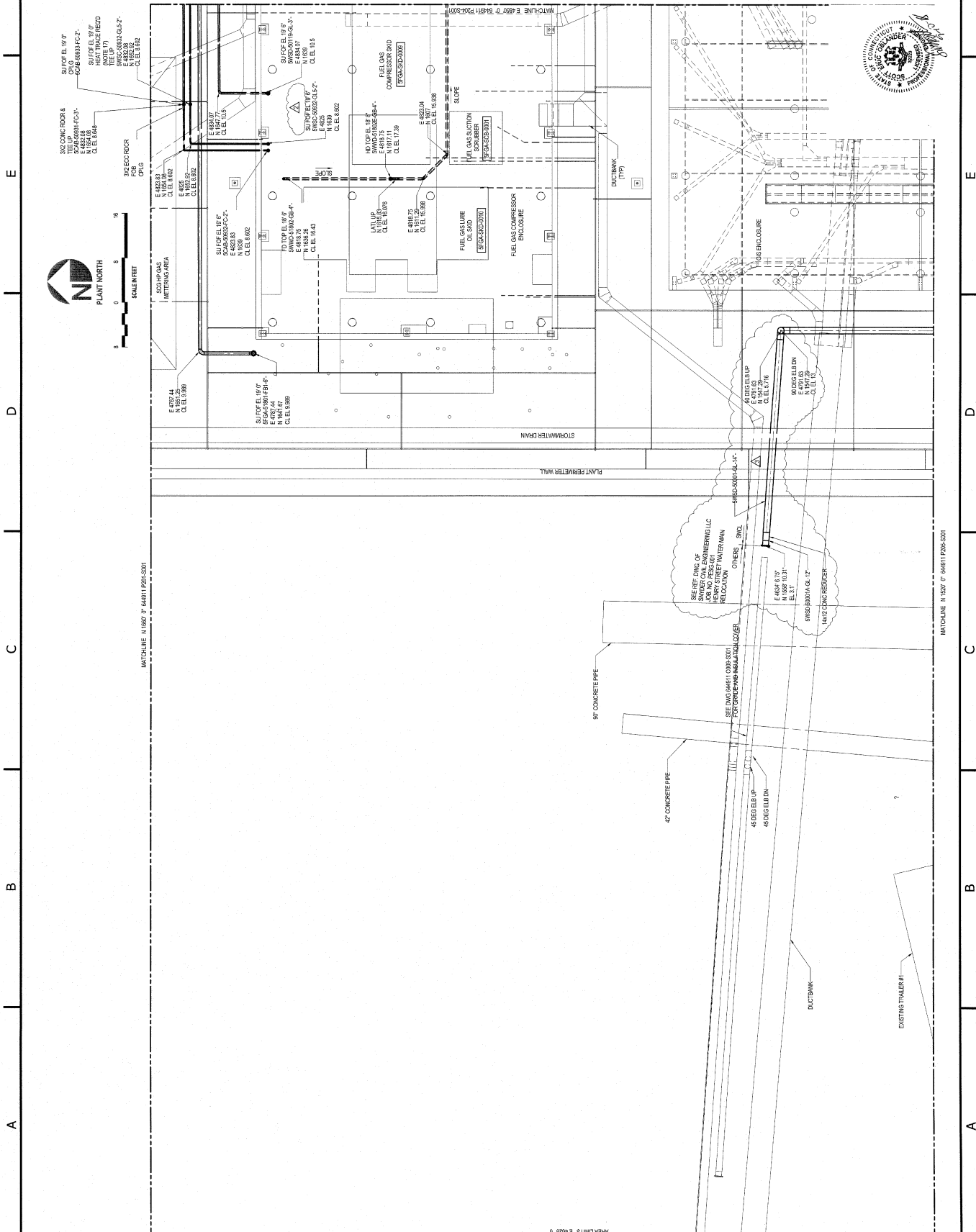
BRIDGEPORT 05

UNDERGROUND PIPING PLAN

PARTIAL SITE PLAN

DESIGN - CIVIL GENERAL

644911 P202-S001



1. FOR GENERAL NOTES SEE DWG 644911 P200-S001

LEGEND

- CO - CLEANOUT (SEE NOTE 3)
FD - FLOOR DRAIN (SEE NOTE 3)
HD - HUB DRAIN (SEE NOTE 5)
SU - SUDS-UP (SEE NOTE 4)
A - CATHODIC PROTECTION ANODE (SEE NOTE 6)
T - CATHODIC PROTECTION TEST (SEE NOTE 6)

CORPORATED F00R 0343; REVISED LINE 5WS-D-500 TIE POINT
CATION TO POTABLE WATER SUPPLY

29/10/18	238	50	50/10	50/10	20
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CHANGED LINE 5WSD-301, REMOVED HEAT TRACE TO STUB-UP OF
SSC-5932 AND CHANGED ROUTING TO TIE-IN FOR POTABLE
WATER SUPPLY

Δ	13/1/18	DEC	REP	LP	LA	LPSE
REVISED LINE 5FGA-51801, REVISED ELEVATION OF LINES						

DEC	KC	LP	LA	SF	SEO
8/3/17					


<p> RECEIVED FOR CONSTRUCTION </p>

	VT	RET	LP	LA	SF	SEO
52417						

REVISION DATE _____

PROJECT ENGINEERING DIVISION

PSEG
PSEG Connecticut LLC



SNC • LAVALIN
CONSTRUCTORS INC.

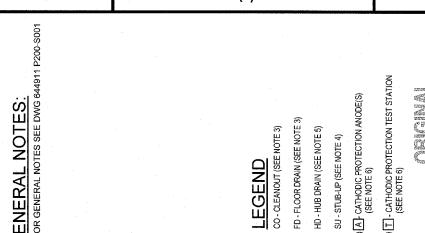
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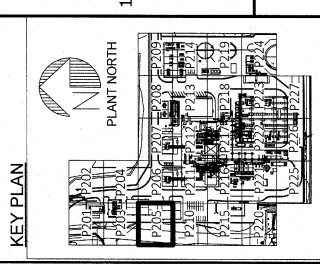
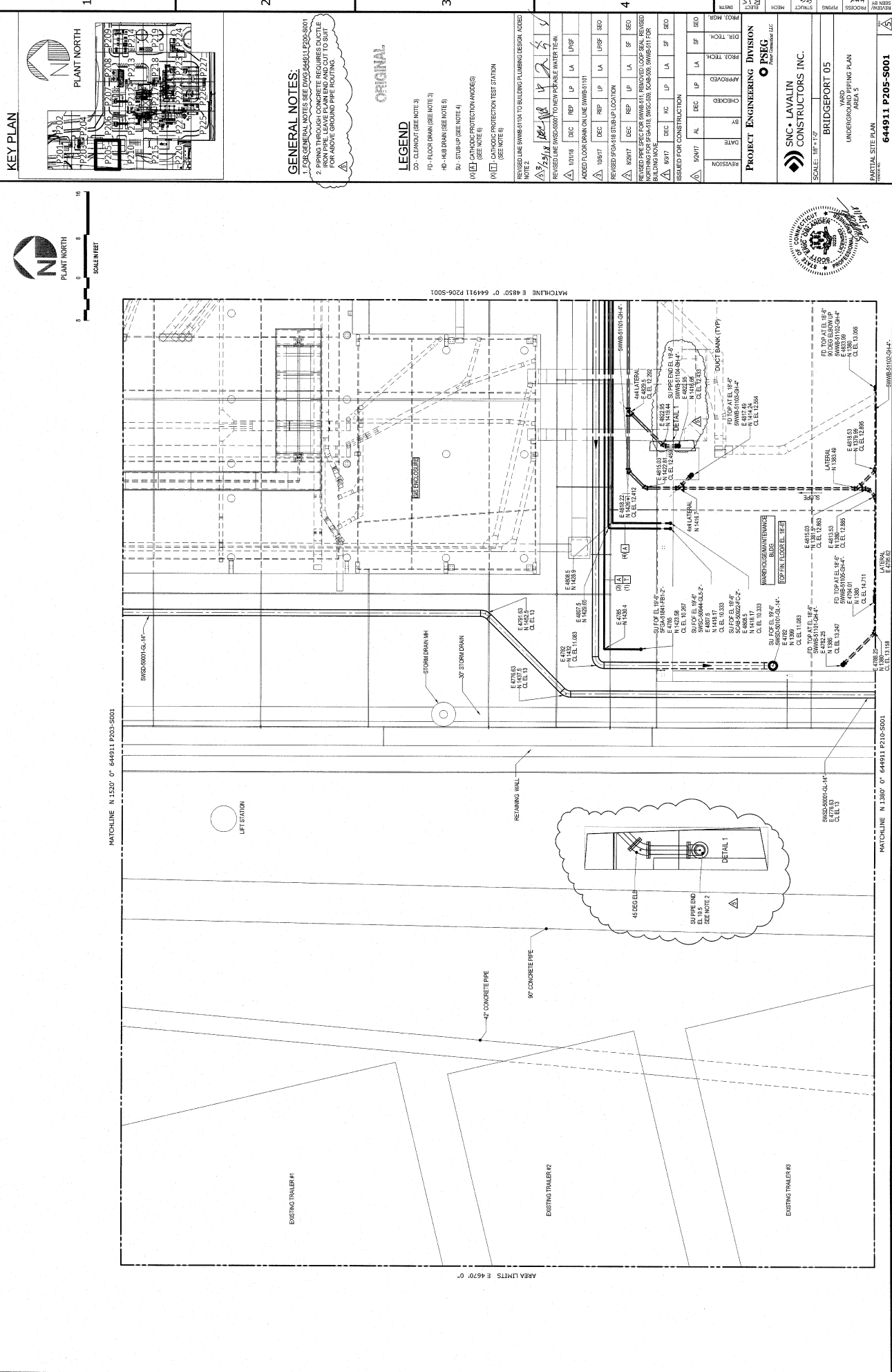
BRIDGEPORT 05
YARD

UNDERGROUND PIPING PLAN
AREA 3

RTIAL SITE PLAN
 OF NO.
644911 P203-S001
 PCF

<p>  </p>	<p>  </p>
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[illegible]



- GENERAL NOTES:**
1. FOR GENERAL NOTES SEE DWG 644911 P205-S001
 2. PIPING THROUGH CONCRETE REQUIRES DUCTILE IRON PIPE. LEAVE PLAIN END AND CUT TO SUIT FOR ABOVE GROUND PIPE ROUTING.
- LEGEND**
- DO CLEANOUT (SEE NOTE 3)
 - FD FLOOR DRAIN (SEE NOTE 3)
 - HD-HS DRAIN (SEE NOTE 4)
 - SU STUB UP (SEE NOTE 4)
 - XX [Symbol] CATHODIC PROTECTION ANODES (SEE NOTE 6)
 - XX [Symbol] CATHODIC PROTECTION TEST STATION (SEE NOTE 6)

PROJECT ENGINEERING DIVISION

REVISION	DATE	BY	CHECKED	APPROVED	DR. TECH.	PROJ. TECH.	PROJ. MGR.
1	3/15/18	102	102	102	102	102	102
2	3/15/18	102	102	102	102	102	102
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PROJECT ENGINEERING DIVISION

SNC • LAVALIN
CONSTRUCTORS INC.

SCALE: 1/8" = 1'-0"

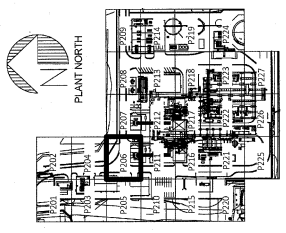
BRIDGEPORT 05

UNDERGROUND PIPE PLAN
AREA 5

PARTIAL SITE PLAN
644911 P205-S001



KEY PLAN



GENERAL NOTES:

1. FOR GENERAL NOTES SEE DAT 644911 P204-S001

LEGEND

- CO - CLEANOUT (SEE NOTE 3)
- FD - FLOOR DRAIN (SEE NOTE 3)
- HD - HUB DRAIN (SEE NOTE 3)
- SU - SUB-UP (SEE NOTE 4)
- CA - CATHODIC PROTECTION ANODES (SEE NOTE 5)
- WT - CATHODIC PROTECTION TEST STATION (SEE NOTE 6)

ORIGINAL

ADDED LINES 8/24/2017, 8/28/2017 AND 8/29/2017 AND
REVISED ANNOTATION AND METERS 8/28/2017 AND 8/29/2017
ISSUED FOR CONSTRUCTION

REVISION	DATE	BY	CHECKED	APPROVED	LA	SP	SD
1	8/24/2017	LA	SP	SD			

PROJECT ENGINEERING DIVISION

PSECC

SNC - LAVALIN
STRUCTURAL ENGINEERS

SCALE: 1" = 10'

BRIDGEPORT 05

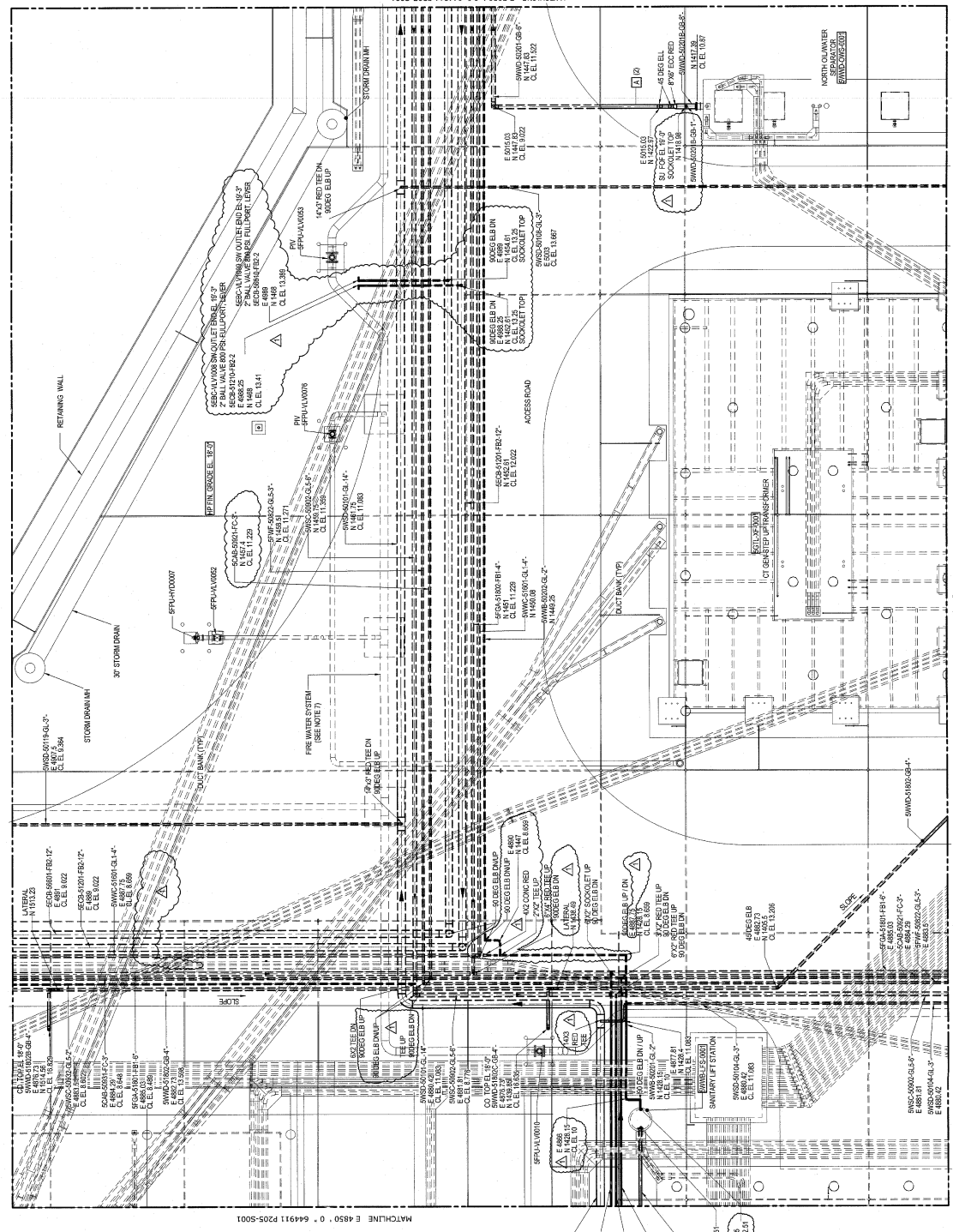
UNDERGROUND PIPING PLAN
AREA 6

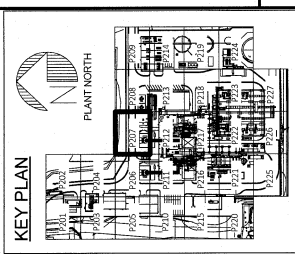
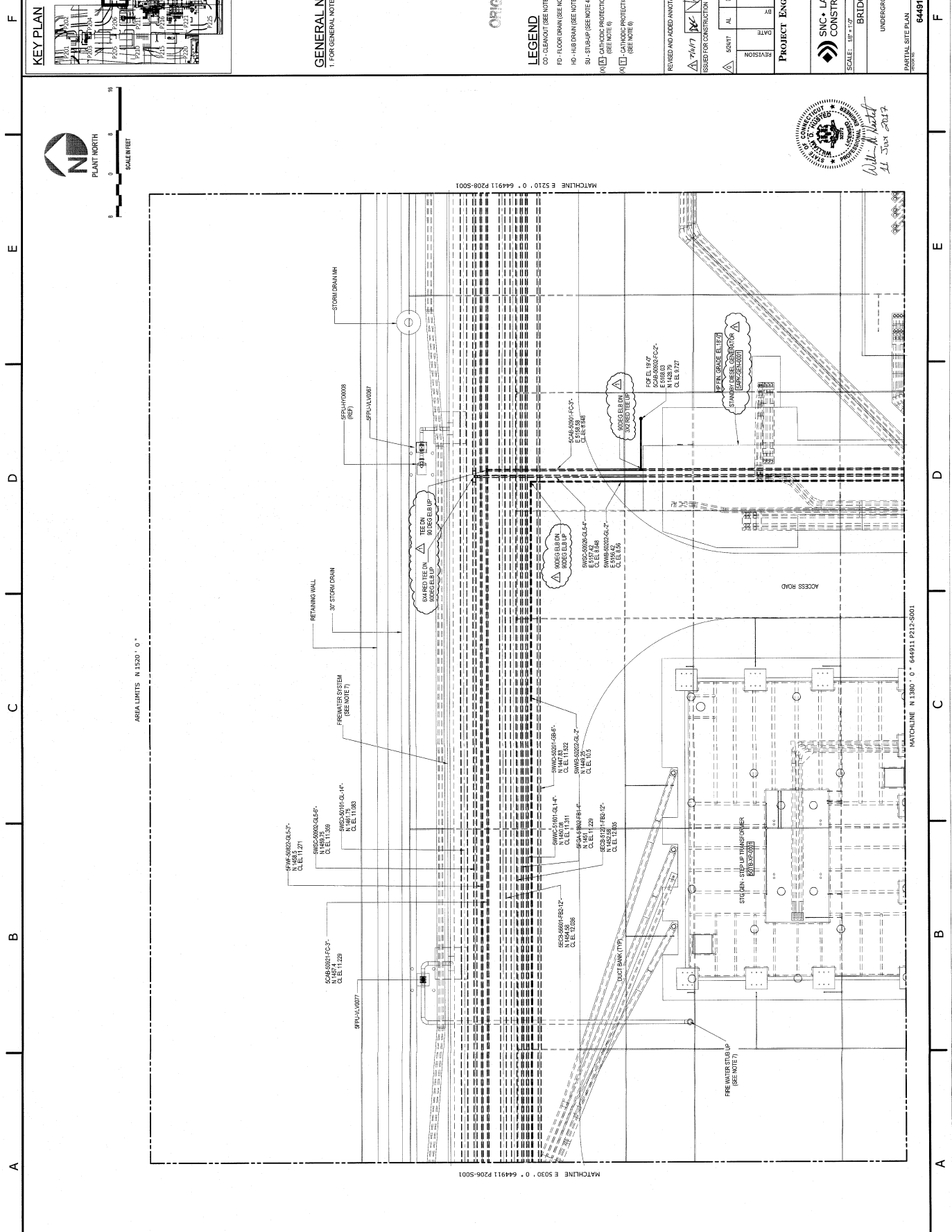
PARTIAL SITE PLAN
DESIGN: CIVIL GENERAL

644911 P204-S001

MATCHLINE N 1320' 0" 644911 P204-S001

MATCHLINE N 1330' 0" 644911 P211-S001





GENERAL NOTES:

1. FOR GENERAL NOTES SEE DWG 644911 P208-S001

ORIGINAL

LEGEND

- CD - CLEANOUT (SEE NOTE 3)
- FD - FLOOR DRAIN (SEE NOTE 3)
- HD - HUB DRAIN (SEE NOTE 6)
- SD - STUB-UP (SEE NOTE 4)
- MD - CATHODIC PROTECTION ANODES (SEE NOTE 4)
- MD - CATHODIC PROTECTION TEST STATION (SEE NOTE 4)

REVIEW AND ADD ANNOTATION

DATE	BY	CHECKED	APPROVED	PROJ. TECH	SP	SD
7/17/17	18	14	14	14	14	14

PROJECT ENGINEERING DIVISION

PSEC

SNC-LAVALLIN CONSTRUCTORS INC.

BRIDGEPORT 05

UNDERGROUND PIPING PLAN

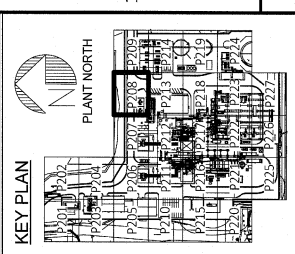
AREA 7

PARTIAL SITE PLAN

DESIGN - CIVIL GENERAL

644911 P207-S001





PLANT NORTH

SCALE IN FEET

AREA LIMITS N 1520 0 0

AREA LIMITS N 1520 0 0

AREA LIMITS N 1520 0 0

AREA LIMITS N 1520 0 0

AREA LIMITS N 1520 0 0

AREA LIMITS N 1520 0 0

AREA LIMITS N 1520 0 0

AREA LIMITS N 1520 0 0

AREA LIMITS N 1520 0 0

AREA LIMITS N 1520 0 0

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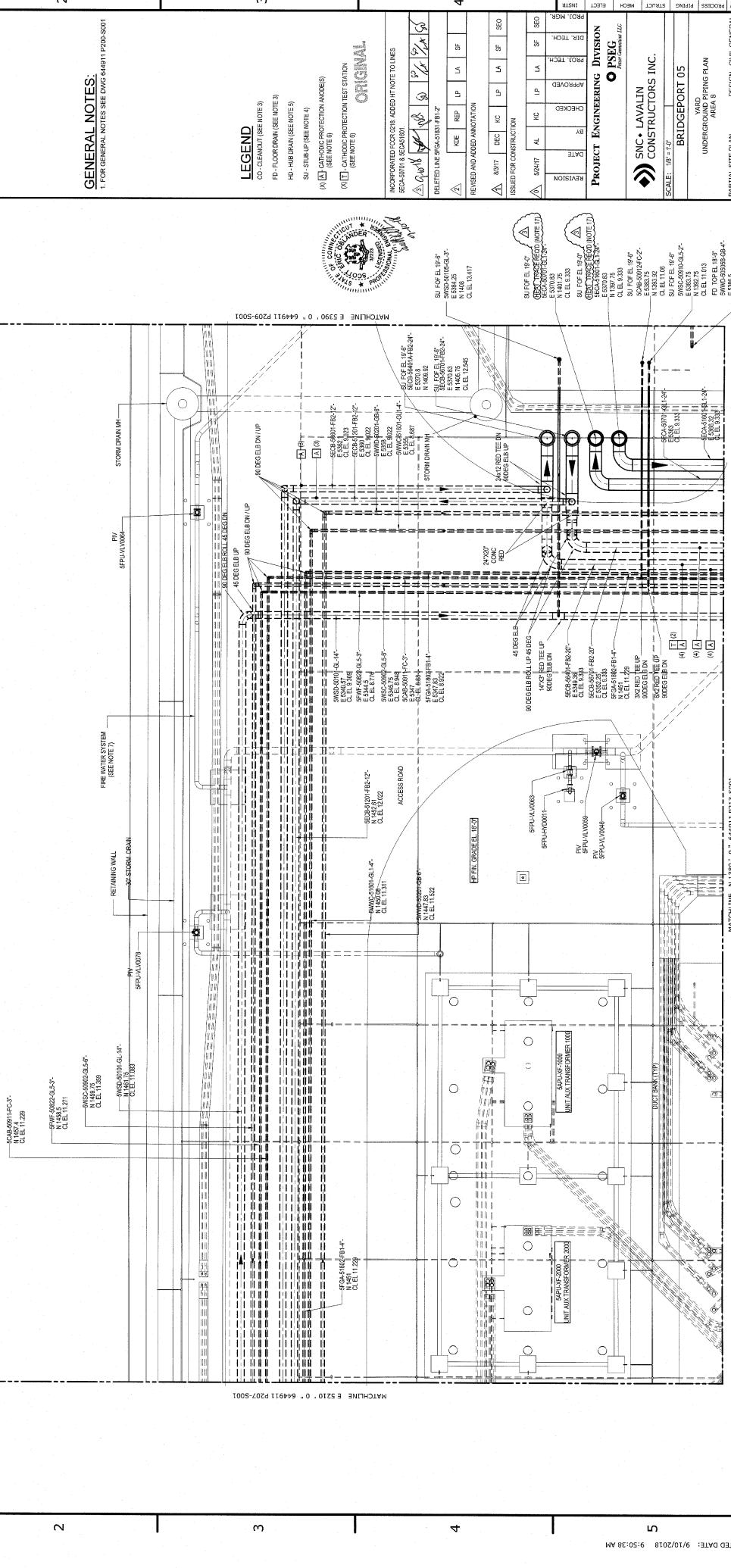
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AREA LIMITS N 1520 0 0



GENERAL NOTES:
1. FOR GENERAL NOTES SEE DWG 644911 P208-S001

LEGEND

CD - CLEARANCE (SEE NOTE 3)

FD - FLOOR DRAIN (SEE NOTE 3)

HD - HUB DRAIN (SEE NOTE 3)

SU - SUB-UP (SEE NOTE 4)

AV - AUTOMATIC PROTECTION ANODES (SEE NOTE 6)

AV - AUTOMATIC PROTECTION TEST STATION (SEE NOTE 6)

ORIGINAL

INCORPORATED FOR P208, ADDED AT NOTE 10 LINES
SECA 5071 & SECA 601

DELETED LINE 5FAS 5181 FRI 2

REMOVED AND ADDED ANNOTATION

ISSUED FOR CONSTRUCTION

REVISION

DATE

BY

CHECKED

APPROVED

PROJ. TECH

INST.

PROJECT ENGINEERING DIVISION

SNC • LAVALIN
CONSTRUCTORS INC.

BRIDGEPORT 05

SCALE: 1/8" = 1'-0"

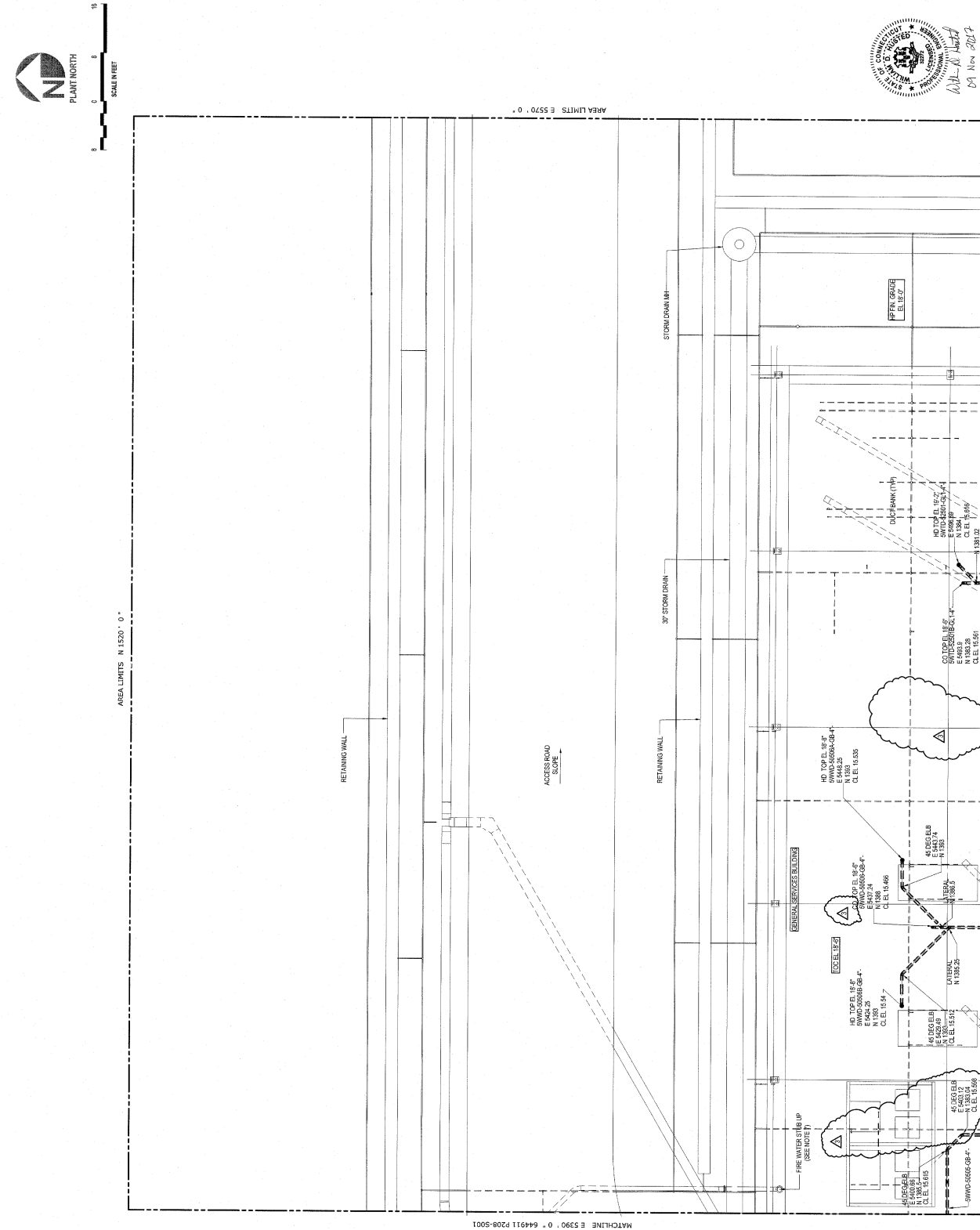
UNDERGROUND PIPING PLAN
AREA 8

DESIGN: CIVIL GENERAL

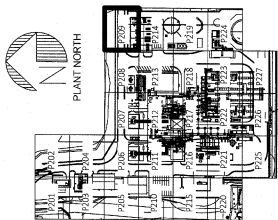
PARTIAL SITE PLAN

644911 P208-S001

PRINTED DATE: 9/10/2018 9:50:38 AM



KEY PLAN



GENERAL NOTES:

1. FOR GENERAL NOTES SEE DWG 644911 P208-S001

LEGEND

- CC - CLEANOUT (SEE NOTE 3)
- FD - FLOOR DRAIN (SEE NOTE 3)
- HD - HOLE DRAIN (SEE NOTE 3)
- SU - STUMP-UP (SEE NOTE 4)
- (A) CATHODIC PROTECTION ANODE(S) (SEE NOTE 6)
- (C) CATHODIC PROTECTION TEST STATION (SEE NOTE 6)

ORIGINAL

REVISIONS: SEE DWG 644911 P208-S001 FOR REVISIONS. ALL REVISIONS TO BE MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT MANUAL.

RELOCATED HD FOR SWMD-5505 AND SWMD-5506A

RELOCATED SWMD-530 AND SWMD-505

ISSUED FOR CONSTRUCTION

DATE: 11/7/17

BY: [Signature]

CHECKED: [Signature]

APPROVED: [Signature]

PROJECT ENGINEERING DIVISION

PROJECT: SNC • Lavalin Constructors Inc.

BRIDGEPORT 05

UNDERGROUND PIPING PLAN

AREA 9

PARTIAL SITE PLAN

644911 P208-S001

DESIGN - CIVIL GENERAL

DATE: 11/7/2017

BY: [Signature]

CHECKED: [Signature]

APPROVED: [Signature]

PROJECT ENGINEERING DIVISION

PROJECT: SNC • Lavalin Constructors Inc.

BRIDGEPORT 05

UNDERGROUND PIPING PLAN

AREA 9

PARTIAL SITE PLAN

644911 P208-S001

DESIGN - CIVIL GENERAL

DATE: 11/7/2017

BY: [Signature]

CHECKED: [Signature]

APPROVED: [Signature]

PROJECT ENGINEERING DIVISION

PROJECT: SNC • Lavalin Constructors Inc.

BRIDGEPORT 05

UNDERGROUND PIPING PLAN

AREA 9

PARTIAL SITE PLAN

644911 P208-S001

DESIGN - CIVIL GENERAL

DATE: 11/7/2017

BY: [Signature]

CHECKED: [Signature]

APPROVED: [Signature]

PROJECT ENGINEERING DIVISION

PROJECT: SNC • Lavalin Constructors Inc.

BRIDGEPORT 05

UNDERGROUND PIPING PLAN

AREA 9

PARTIAL SITE PLAN

644911 P208-S001

DESIGN - CIVIL GENERAL

DATE: 11/7/2017

BY: [Signature]

CHECKED: [Signature]

APPROVED: [Signature]

PROJECT ENGINEERING DIVISION

PROJECT: SNC • Lavalin Constructors Inc.

BRIDGEPORT 05

UNDERGROUND PIPING PLAN

AREA 9

PARTIAL SITE PLAN

644911 P208-S001

DESIGN - CIVIL GENERAL

DATE: 11/7/2017

BY: [Signature]

CHECKED: [Signature]

APPROVED: [Signature]

PROJECT ENGINEERING DIVISION

PROJECT: SNC • Lavalin Constructors Inc.

BRIDGEPORT 05

UNDERGROUND PIPING PLAN

AREA 9

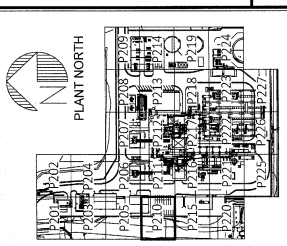
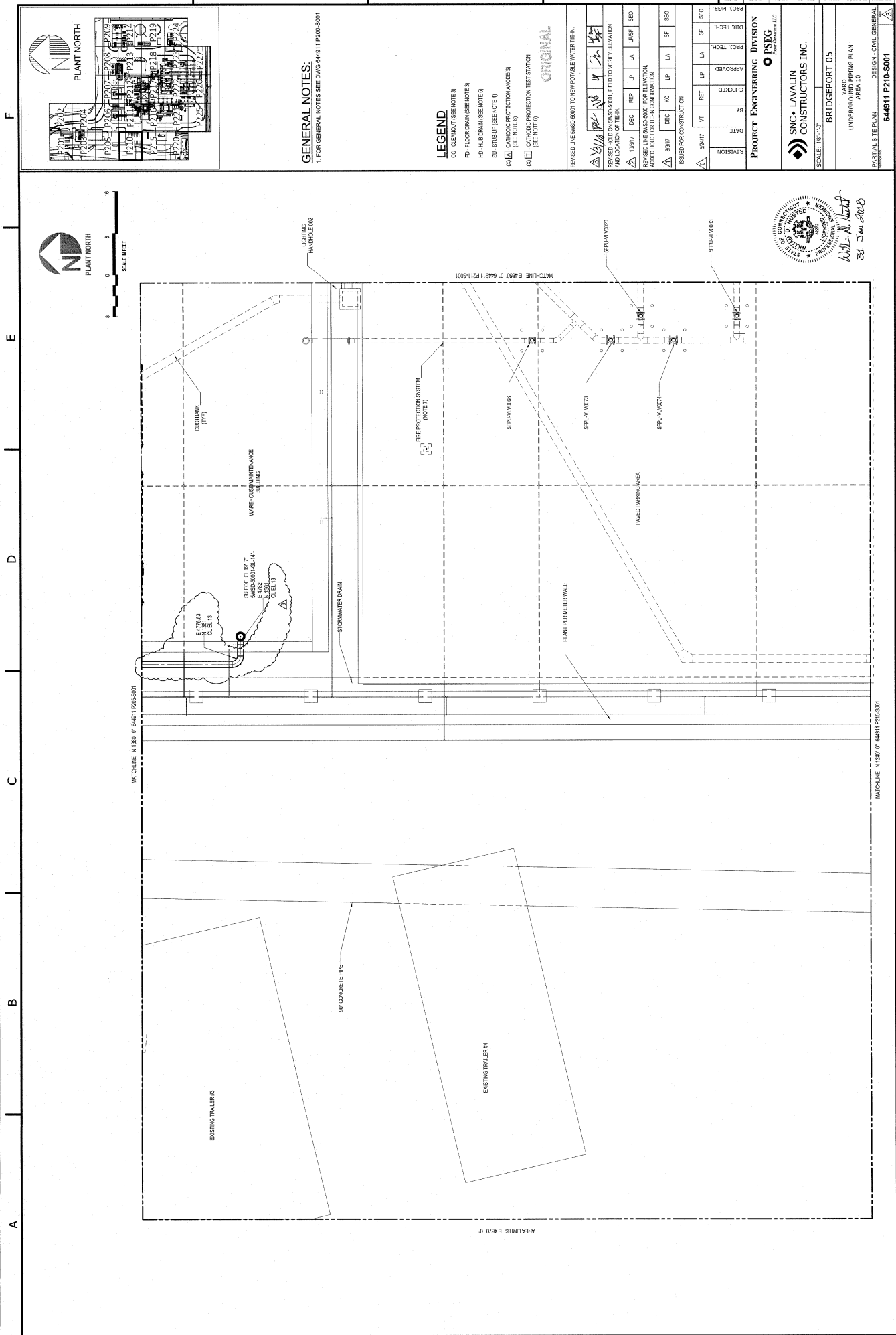
PARTIAL SITE PLAN

644911 P208-S001

DESIGN - CIVIL GENERAL

DATE: 11/7/2017

BY: [Signature]



GENERAL NOTES:

1. FOR GENERAL NOTES SEE DWG 644911 P210-S001

LEGEND

- CC - CEMENT (SEE NOTE 3)
- FD - FLOOR DRAIN (SEE NOTE 3)
- HD - HUB DRAIN (SEE NOTE 3)
- SD - STUB-UP (SEE NOTE 4)
- (N) - CARBONIC PROTECTION ANODES (SEE NOTE 5)
- (N) - PROTECTION TEST STATION (SEE NOTE 6)

ORIGINAL

REINFORCED LINE SWS-3001 TO NEW POTABLE WATER TIE-IN

REINFORCED HOLD ON SWS-3001 FIELD TO VERIFY ELEVATION AND LOCATION OF TIE-IN

REINFORCED LINE SWS-3001 FOR ELEVATION, ACKNOWLEDGE FOR TIE-IN CONFIRMATION

ISSUED FOR CONSTRUCTION

5/20/17

5/20/17

5/20/17

5/20/17

5/20/17

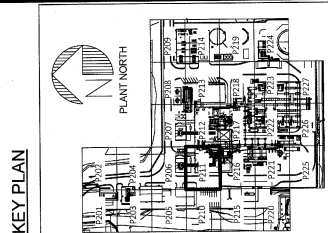
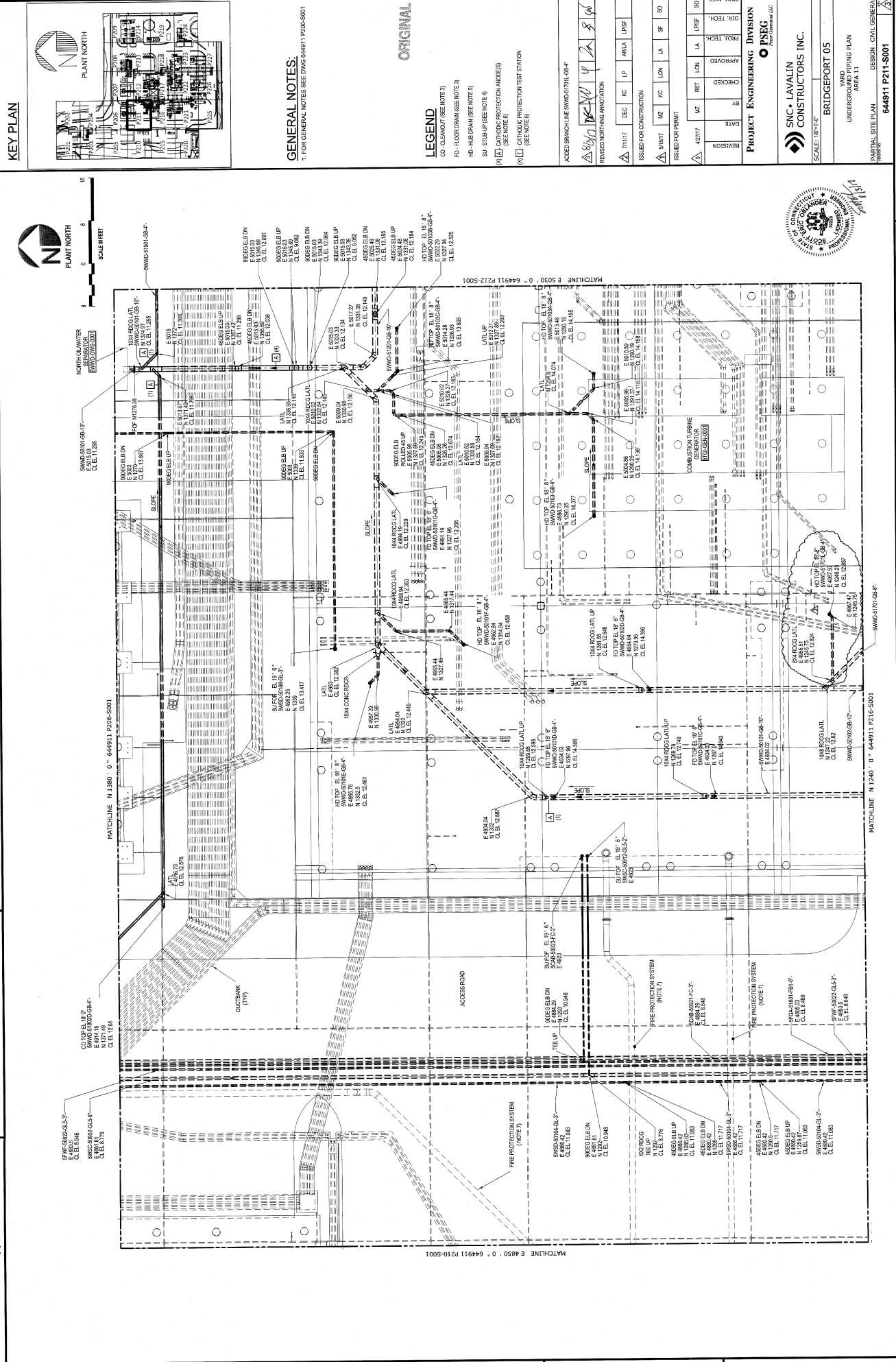
5/20/17

5/20/17

5/20/17

5/20/17

5/20/17



GENERAL NOTES:
1. FOR GENERAL NOTES SEE DWG 644911 P210-S001

LEGEND
CO - CLEANOUT (SEE NOTE 3)
FD - FLOOR DRAIN (SEE NOTE 3)
HD - HUB DRAIN (SEE NOTE 5)
SU - SUMP (SEE NOTE 4)
CP - CATHODIC PROTECTION ANODES (SEE NOTE 6)
CA - CATHODIC PROTECTION TEST STATION (SEE NOTE 6)

ADDED BRANCH LINE 644911 P210-S001

REVISION	DATE	BY	CHK	APP	AREA	UNF
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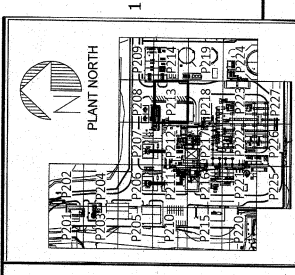
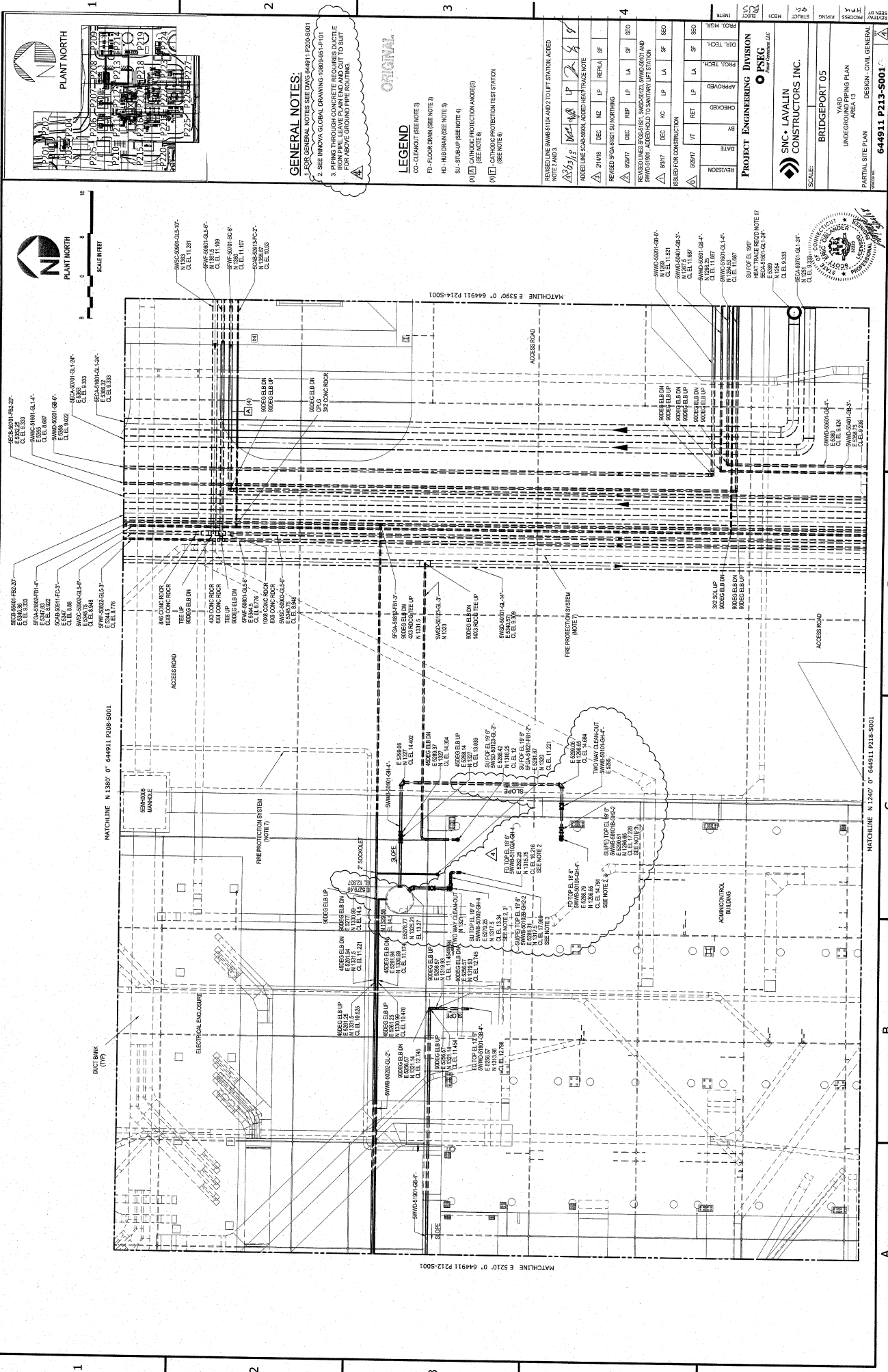
ISSUED FOR CONSTRUCTION

REVISION	DATE	BY	CHK	APP	AREA	UNF
1	08/02/2017	Y	Y	Y	Y	Y

ISSUED FOR PERMIT

REVISION	DATE	BY	CHK	APP	AREA	UNF
1	08/02/2017	Y	Y	Y	Y	Y

PROJECT ENGINEERING DIVISION
PSFG
SNC-Lavalin
CONSTRUCTORS INC.
BRIDGEPORT 05
SCALE: 1"=10'-0"
PARTIAL SITE PLAN
DESIGN: CIVIL GENERAL
644911 P211-S001



GENERAL NOTES:

- 1. SEE GENERAL NOTES SEE DWG 644911 P208-5001
- 2. SEE INNOVA GLOBAL DRAWING 1009-81-P-10
- 3. PIPING THROUGH CONCRETE REQUIRES DUCTILE FOR ABOVE GRADE AND CAST IN PLACE FOR BELOW GRADE
- 4. SEE INNOVA GLOBAL DRAWING 1009-81-P-10

ORIGINAL

LEGEND

- CO-CLEANOUT (SEE NOTE 1)
- FD-FLOOR DRAIN (SEE NOTE 1)
- HD-HIGH DRAIN (SEE NOTE 1)
- SI-SUMP (SEE NOTE 4)
- (A) CATHODIC PROTECTION ANODES (SEE NOTE 5)
- (B) CATHODIC PROTECTION TEST STATION (SEE NOTE 6)

REVISIONS: SEE DWG 644911 P212-5001
NOTE: 1003

ADDED LINE 508-508A ADDED HEAT TRACE NOTE

REMOVED SPACER SUPPORTING

REMOVED LINES 508-508A, 508-508B, 508-508C, 508-508D, 508-508E, 508-508F, 508-508G, 508-508H, 508-508I, 508-508J, 508-508K, 508-508L, 508-508M, 508-508N, 508-508O, 508-508P, 508-508Q, 508-508R, 508-508S, 508-508T, 508-508U, 508-508V, 508-508W, 508-508X, 508-508Y, 508-508Z, 508-508AA, 508-508AB, 508-508AC, 508-508AD, 508-508AE, 508-508AF, 508-508AG, 508-508AH, 508-508AI, 508-508AJ, 508-508AK, 508-508AL, 508-508AM, 508-508AN, 508-508AO, 508-508AP, 508-508AQ, 508-508AR, 508-508AS, 508-508AT, 508-508AU, 508-508AV, 508-508AW, 508-508AX, 508-508AY, 508-508AZ, 508-508BA, 508-508BB, 508-508BC, 508-508BD, 508-508BE, 508-508BF, 508-508BG, 508-508BH, 508-508BI, 508-508BJ, 508-508BK, 508-508BL, 508-508BM, 508-508BN, 508-508BO, 508-508BP, 508-508BQ, 508-508BR, 508-508BS, 508-508BT, 508-508BU, 508-508BV, 508-508BW, 508-508BX, 508-508BY, 508-508BZ, 508-508CA, 508-508CB, 508-508CC, 508-508CD, 508-508CE, 508-508CF, 508-508CG, 508-508CH, 508-508CI, 508-508CJ, 508-508CK, 508-508CL, 508-508CM, 508-508CN, 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PROJECT ENGINEERING DIVISION
PSEG
PSEG POWER INC.
PSEG POWER CONSTRUCTORS INC.

BRIDGEPORT 05
YARD
UNDERGROUND PIPING PLAN
AREA 13

SCALE:
1" = 10'

DATE:
3/23/2018

BY:
[Signature]

CHECKED:
[Signature]

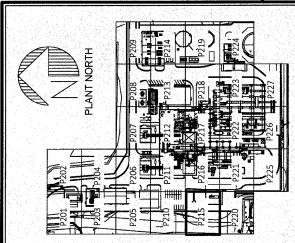
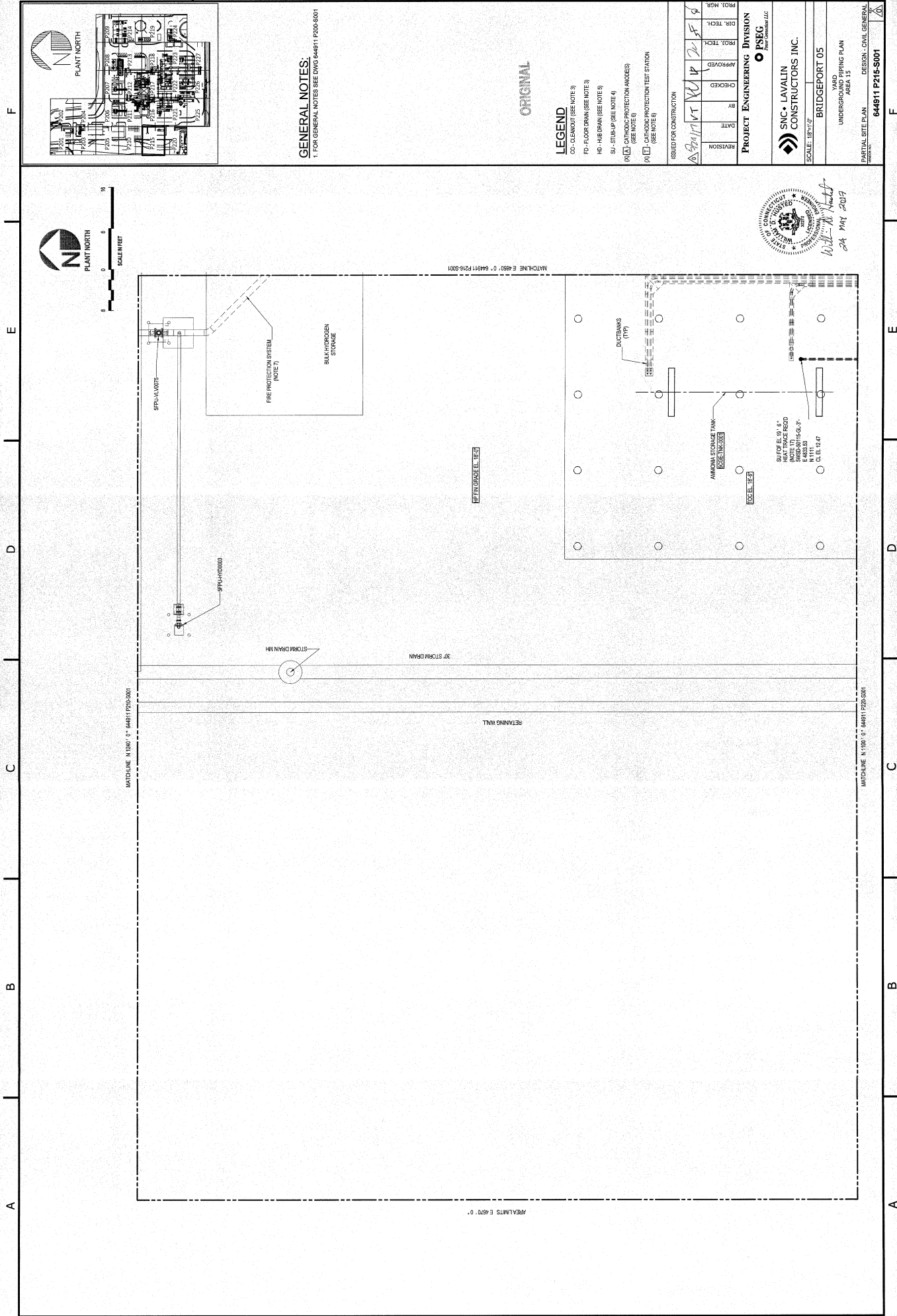
APPROVED:
[Signature]

REVISIONS:

NO.	DATE	DESCRIPTION
1	3/23/2018	ISSUED FOR CONSTRUCTION

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

PROJECT NO.: 644911 P213-5001



GENERAL NOTES:
1. FOR GENERAL NOTES SEE DWG 644911 P216-S001

ORIGINAL

- LEGEND**
- CC - CLEARDUT (SEE NOTE 3)
 - FD - FLOOR DRAIN (SEE NOTE 3)
 - HD - HOLE DRAIN (SEE NOTE 5)
 - SI - STUB-UP (SEE NOTE 4)
 - (A) CATHODIC PROTECTION ANODES (SEE NOTE 6)
 - (A) CATHODIC PROTECTION TEST STATION (SEE NOTE 6)

REVISIONS

NO.	DATE	BY	CHKD	APPD	REASON
1	5/23/17	VT	VT	VT	12-5-16

PROJECT ENGINEERING DIVISION
PSEC
Piping Engineering LLC

SNC • LAVALIN
CONSTRUCTORS INC.

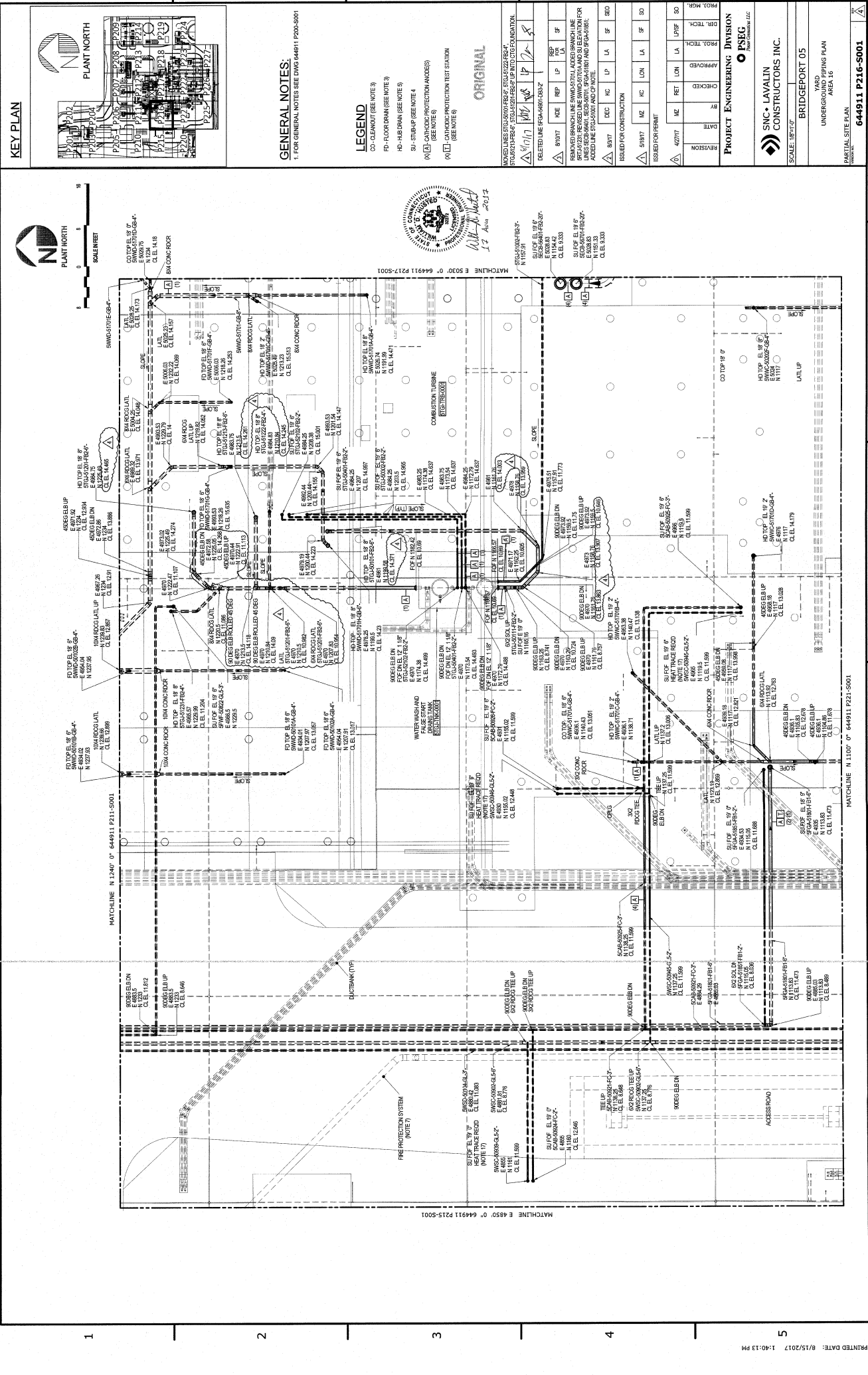
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BRIDGEPORT 05

UNDERGROUND PIPING PLAN
AREA 15

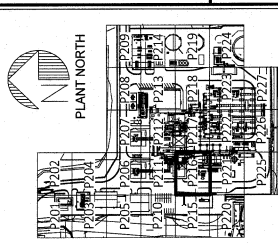
PARTIAL SITE PLAN
DESIGN: CIVIL GENERAL
644911 P216-S001



24 MAY 2019



KEY PLAN



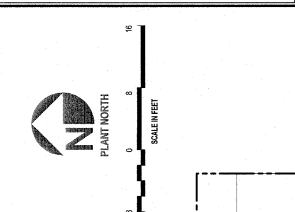
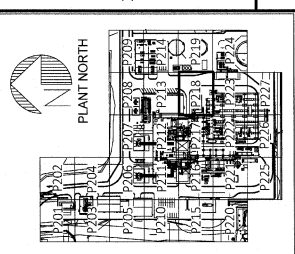
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1. FOR GENERAL NOTES SEE DWG 044911 P215-S001
2. FOR GENERAL NOTES SEE DWG 044911 P215-S001
3. FOR GENERAL NOTES SEE DWG 044911 P215-S001
4. FOR GENERAL NOTES SEE DWG 044911 P215-S001

LEGEND
CO - CLEANOUT (SEE NOTE 3)
FD - FLOOR DRAIN (SEE NOTE 3)
HD - HUB DRAIN (SEE NOTE 3)
SU - SUB-UP (SEE NOTE 4)
M - METER (SEE NOTE 5)
M - METER (SEE NOTE 5)
M - METER (SEE NOTE 5)
M - METER (SEE NOTE 5)

ORIGINAL

PROJECT ENGINEERING DIVISION
SIC • LAVALIN
BRIDGEPORT 05

SCALE: 1/8"=1'-0"
BRIDGEPORT 05
UNDERGROUND PIPING PLAN
AREA 16
PARTIAL SITE PLAN
644911 P215-S001



GENERAL NOTES:
1. FOR GENERAL NOTES SEE DWG 644911 P200-S001

- LEGEND
- CO - CLEANOUT (SEE NOTE 3)
 - FD - FLOOR DRAIN (SEE NOTE 3)
 - HD - HUB DRAIN (SEE NOTE 3)
 - SD - STOP-UP (SEE NOTE 4)
 - CA - CATHODIC PROTECTION ANODES (SEE NOTE 5)
 - CP - CATHODIC PROTECTION TEST STATION (SEE NOTE 5)

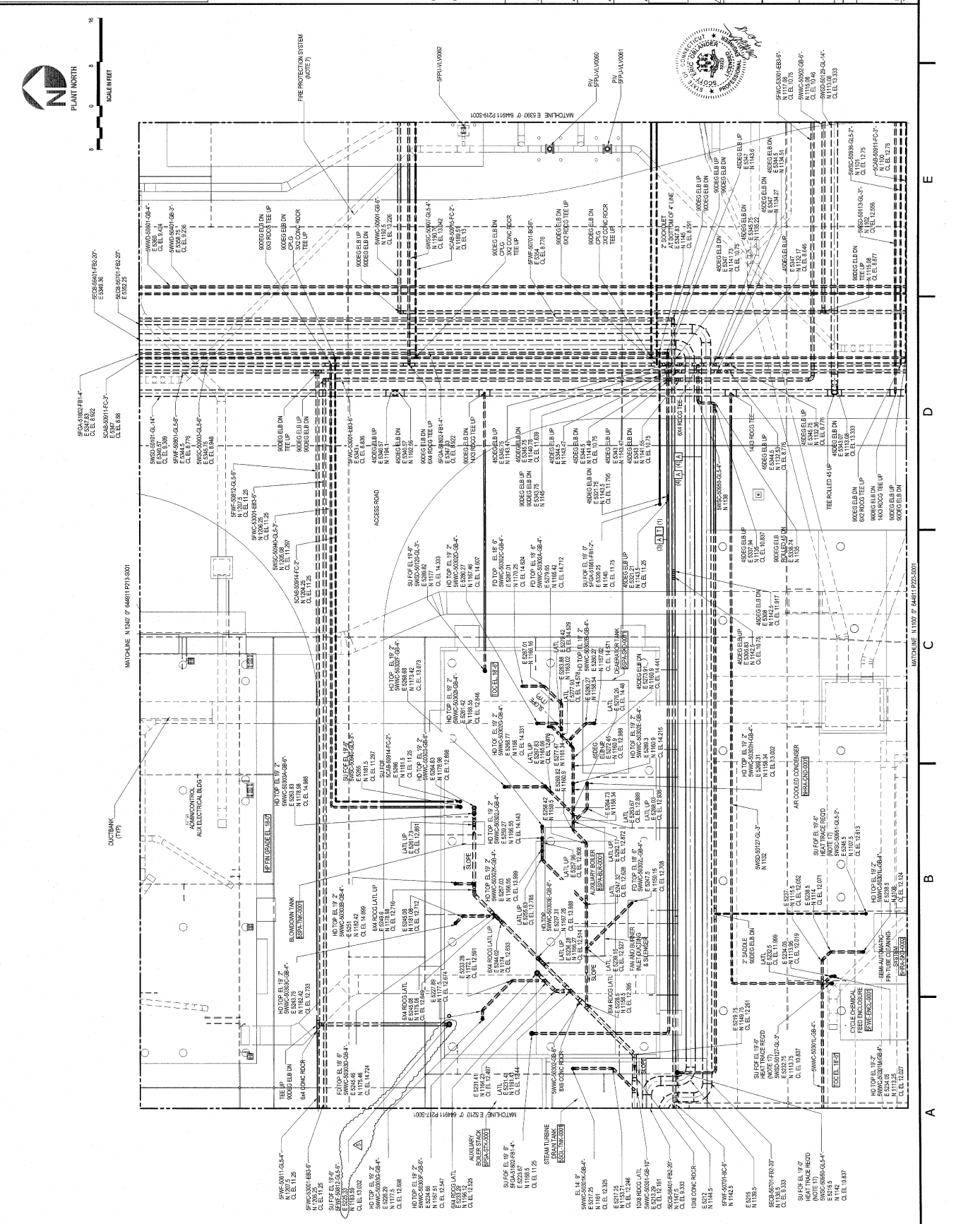
ORIGINAL

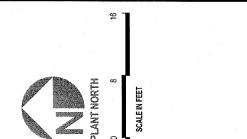
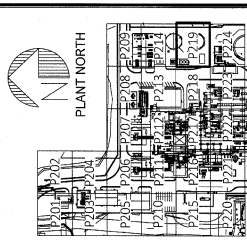
REVISION	DATE	BY	CHKD	APP'D	DESCRIPTION
1	09/19/16	...	...	...	...
2
3
4
5

REVISION	DATE	BY	CHKD	APP'D	DESCRIPTION
1	09/19/16	...	...	...	...
2
3
4
5

REVISION	DATE	BY	CHKD	APP'D	DESCRIPTION
1	09/19/16	...	...	...	...
2
3
4
5

REVISION	DATE	BY	CHKD	APP'D	DESCRIPTION
1	09/19/16	...	...	...	...
2
3
4
5





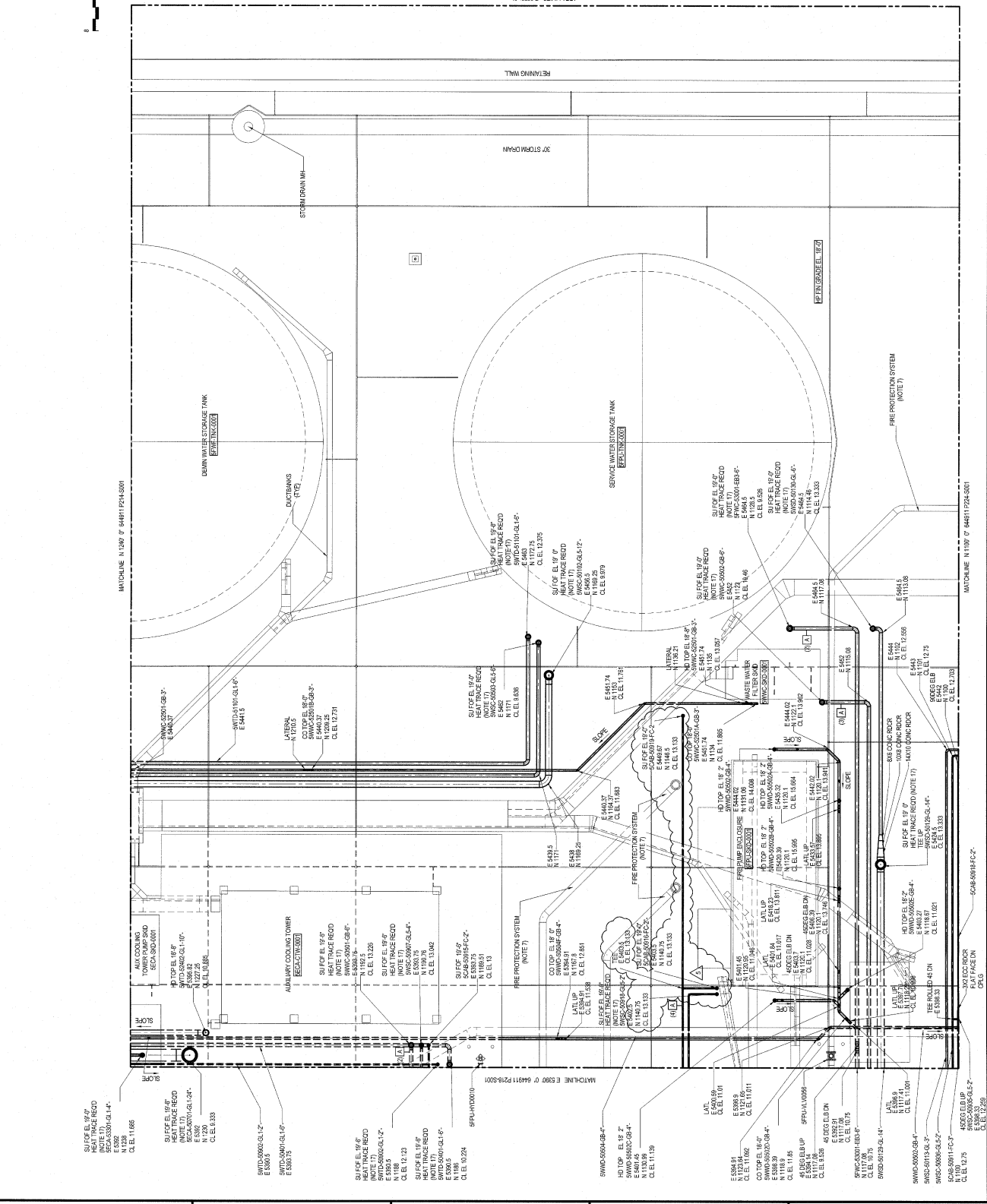
GENERAL NOTES:
1. FOR GENERAL NOTES SEE DWG 644911 P200-S001

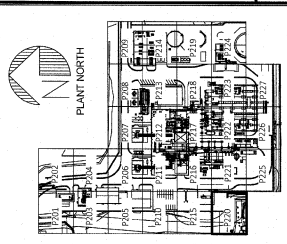
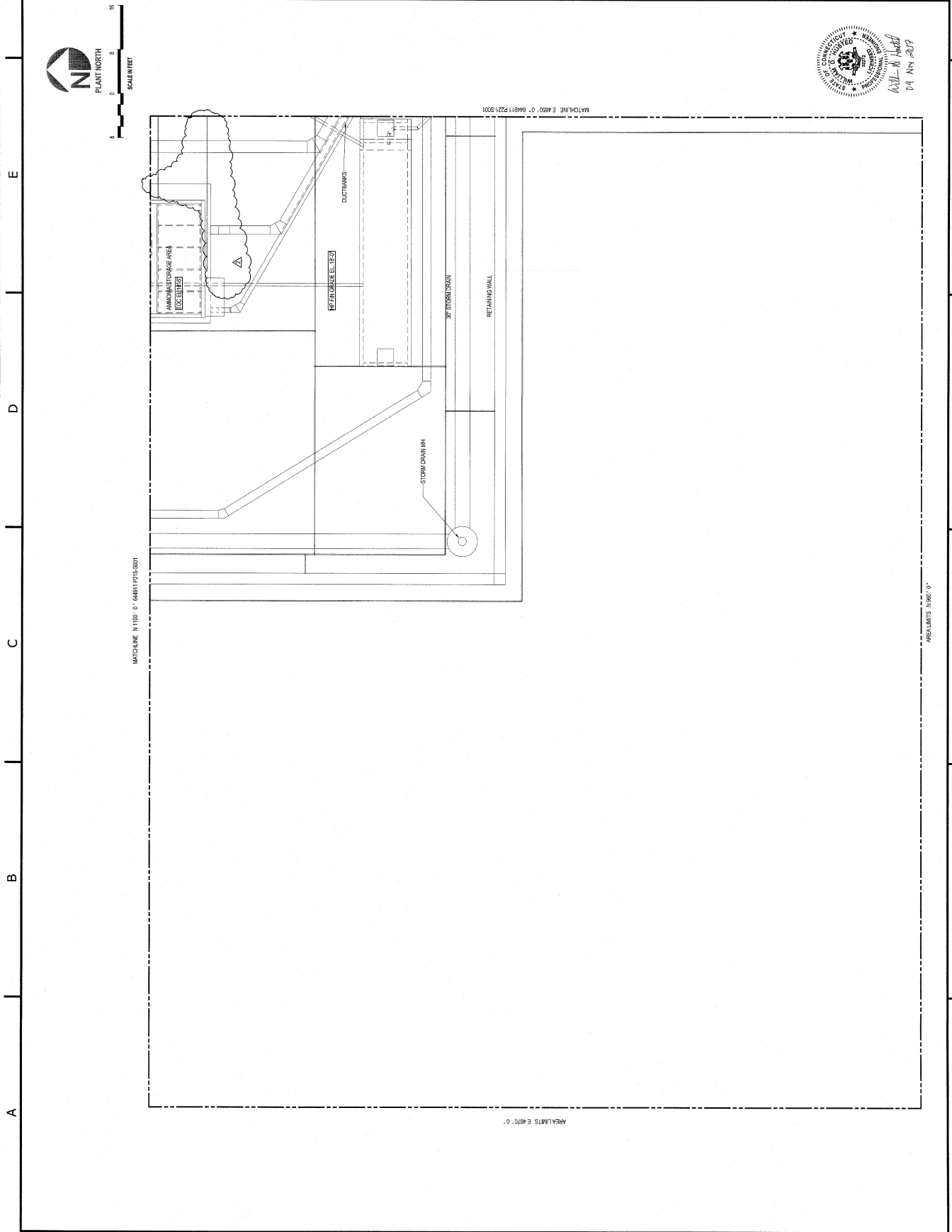
LEGEND

- CO - CLEANOUT (SEE NOTE 3)
- FD - FLOOR DRAIN (SEE NOTE 3)
- HD - HUB DRAIN (SEE NOTE 3)
- SI - STUB UP (SEE NOTE 4)
- PROTECTIVE PROTECTION ANODES (SEE NOTE 5)
- TEST STATION (SEE NOTE 6)

ADDED PIPE BRANCH SAE-55919																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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PROJECT ENGINEERING DIVISION
SNC-LAVALIN
CONSTRUCTORS INC.
BRIDGEPORT 05
UNDERGROUND PIPING PLAN
ANGL 13
PARTIAL SITE PLAN
DESIGN: CIVIL GENERAL
644911 P219-S001





GENERAL NOTES:
1. FOR GENERAL NOTES SEE DWG 644811 P220-S001

- LEGEND**
- CC - CLEANTO (SEE NOTE 3)
 - FD - FLOOR DRAIN (SEE NOTE 3)
 - HD - HUB DRAIN (SEE NOTE 3)
 - SD - STUB-UP (SEE NOTE 4)
 - (X) - CARBONIC PROTECTION ANODE(S) (SEE NOTE 5)
 - (X) - CATHODIC PROTECTION TEST STATION (SEE NOTE 5)

ORIGINAL

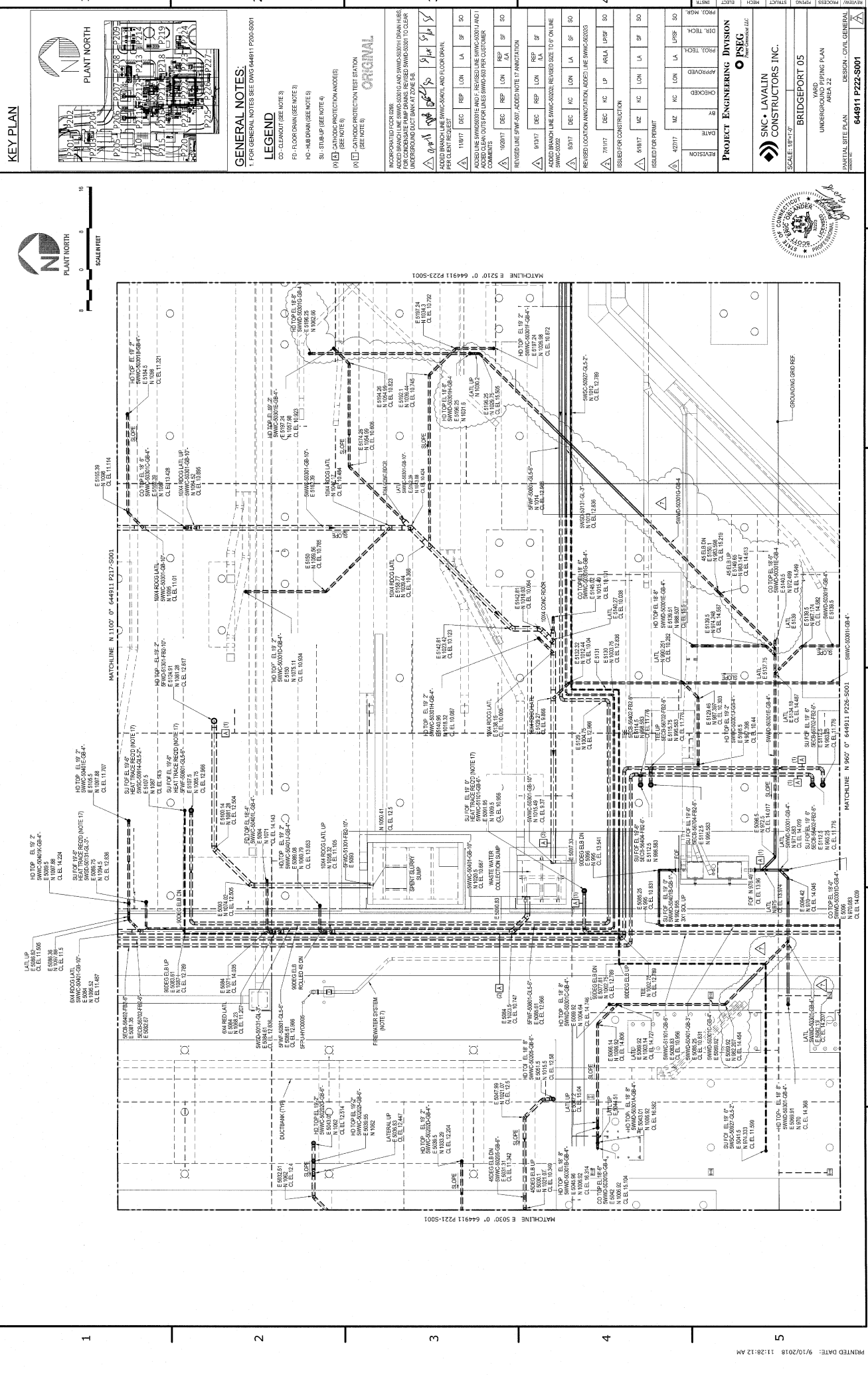
REVISIONS: 1. CHANGED LINE AND BRANCH LINES AND STOPS FOR CUSTOMER COMMENTS. REMOVED 2ND SAFETY SHOWER. 2. CHANGED LOCATION OF EMERGENCY SHOWER AND LINE 3. CHANGED LINE AND BRANCH LINES AND STOPS FOR CUSTOMER COMMENTS. REMOVED 2ND SAFETY SHOWER.

NO.	DATE	BY	CHKD	APPD	REV
1	11/7/17	JP	JP	JP	1

REVISION	DATE	BY	CHKD	APPD	REV
1	11/7/17	JP	JP	JP	1

ISSUED FOR CONSTRUCTION	DEC	HC	LP	LA	SP	SEC
1	11/7/17	JP	JP	JP	JP	1

PROJECT ENGINEERING DIVISION
PSEG
SNC-LAVALIN
CONSTRUCTORS INC.
SCALE: 1/8"=1'-0"
BRIDGEPORT 05
YARD
UNDERGROUND PIPING PLAN
AREA 20
PARTIAL SITE PLAN
DESIGN - CIVIL GENERAL
644811 P220-S001



KEY PLAN

PLANT NORTH

8' 0" 16' 0" 24' 0"

SCALE: 1" = 16' 0"

GENERAL NOTES:

1. FOR GENERAL NOTES SEE DWG 644911 P200-5001

LEGEND

CD - CLEANOUT (SEE NOTE 3)

FD - FLOOR DRAIN (SEE NOTE 3)

HO - HUB DRAIN (SEE NOTE 3)

SU - STUB-UP (SEE NOTE 4)

(P) - CATHODIC PROTECTION ANODES (SEE NOTE 5)

(P) - CATHODIC PROTECTION TEST STATION (SEE NOTE 5)

ORIGINAL

REVISIONS

NO.	DATE	DESCRIPTION
1	04/11/18	ISSUED FOR PERMIT
2	05/17/18	ISSUED FOR CONSTRUCTION
3	06/11/18	ISSUED FOR CONSTRUCTION
4	06/11/18	ISSUED FOR CONSTRUCTION

PROJECT ENGINEERING DIVISION

NO.	DATE	DESCRIPTION
1	04/11/18	ISSUED FOR PERMIT
2	05/17/18	ISSUED FOR CONSTRUCTION
3	06/11/18	ISSUED FOR CONSTRUCTION
4	06/11/18	ISSUED FOR CONSTRUCTION

SNC-LAVALIN CONSTRUCTORS INC.

BRIDGEPORT 05

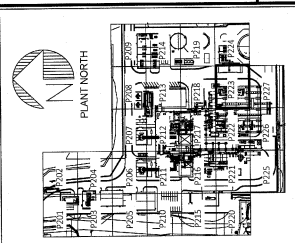
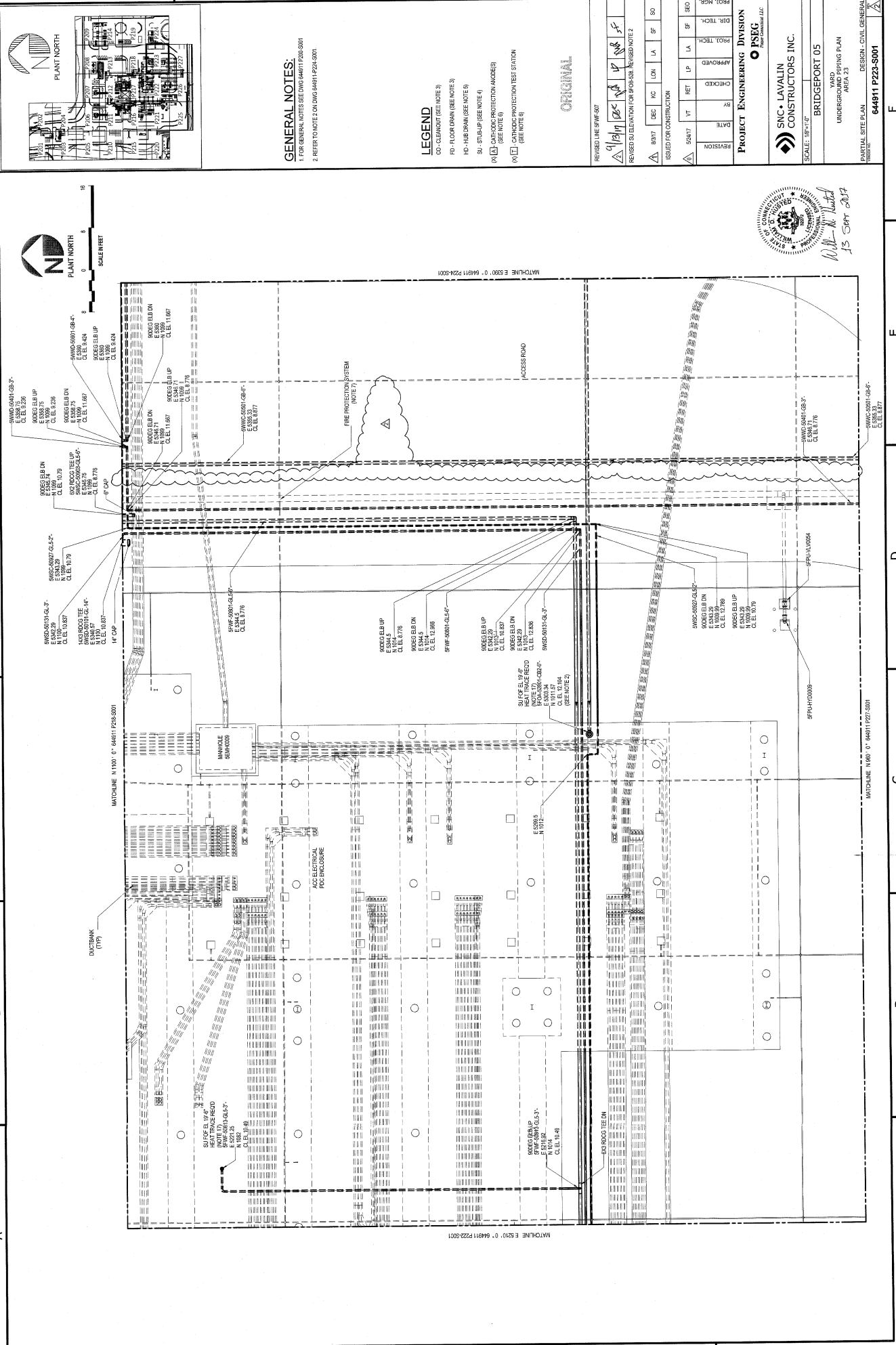
UNDERGROUND PIPING PLAN

AREA 22

PARTIAL SITE PLAN

DESIGN - CIVIL GENERAL

644911 P222-5001



GENERAL NOTES:
1. FOR GENERAL NOTES SEE DWG 646811 P202-S001
2. REFER TO NOTES ON DWG 646811 P224-S001

- LEGEND**
- CO - CLEANOUT (SEE NOTE 3)
 - FD - FLOOR DRAIN (SEE NOTE 3)
 - HO - HUB & SPIN (SEE NOTE 5)
 - SU - STUB-UP (SEE NOTE 4)
 - PC - CATHODIC PROTECTION ANODE(S) (SEE NOTE 6)
 - PT - CATHODIC PROTECTION TEST STATION (SEE NOTE 6)

ORIGINAL

REVISION LINE 59W-507

NO.	DATE	DESCRIPTION
1	9/13/2017	ISSUED FOR CONSTRUCTION

PROJECT ENGINEERING DIVISION

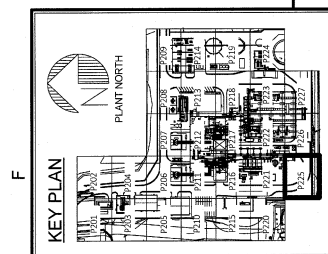
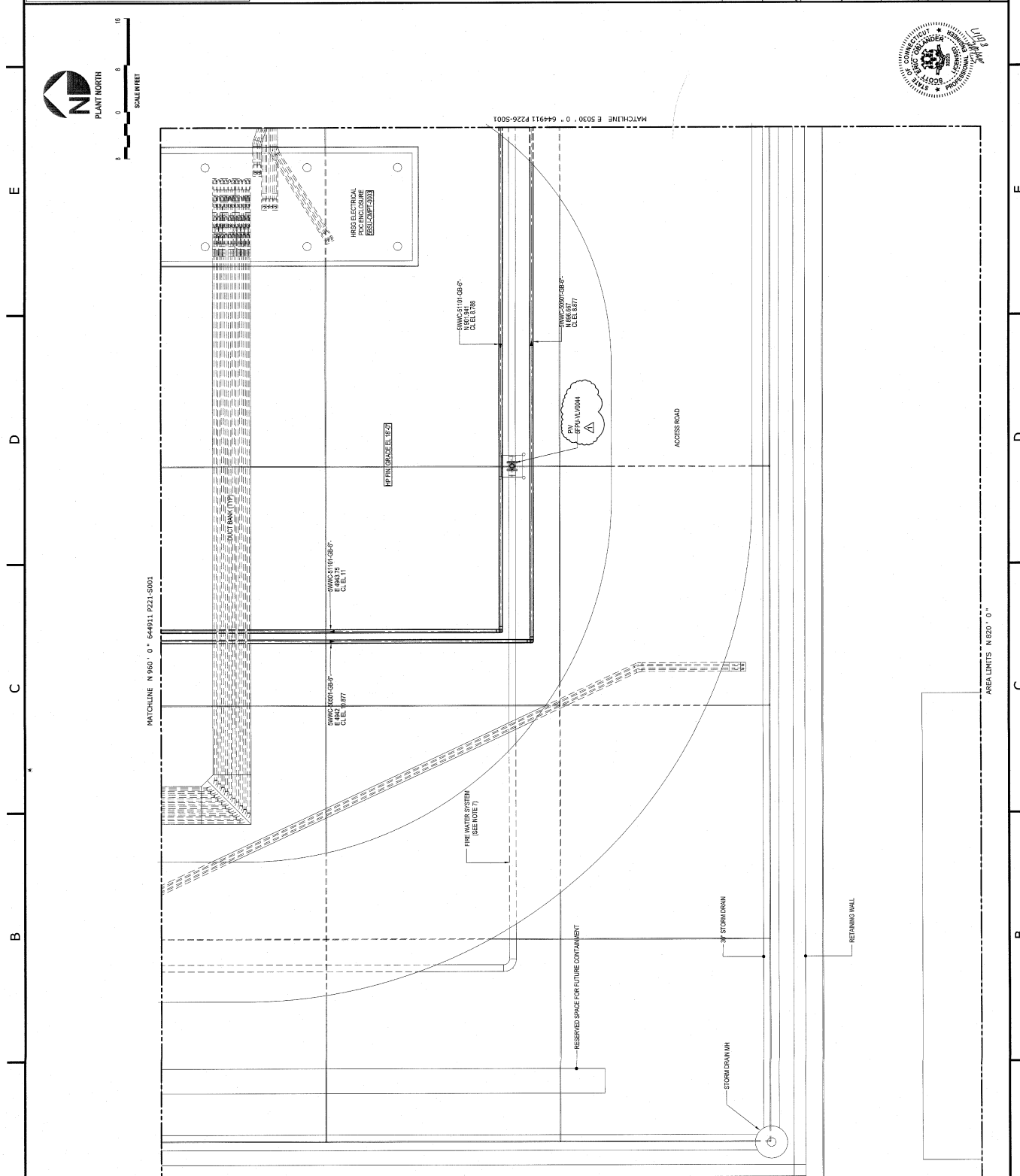
NO.	DATE	DESCRIPTION
1	9/13/2017	ISSUED FOR CONSTRUCTION

SNC-LAVALIN
CONSTRUCTORS INC.

BRIDGEPORT 05
YARD
UNDERGROUND PIPING PLAN
AREA 23

PARTIAL SITE PLAN
DESIGN - CIVIL GENERAL
646811 P223-S001





GENERAL NOTES:
1. FOR GENERAL NOTES SEE DWG 644911 P200-S001

ORIGINAL

LEGEND

- LEGEND**
- CO - CLEANOUT (SEE NOTE 3)
FD - FLOOR DRAIN (SEE NOTE 3)
HD - HUB DRAIN (SEE NOTE 5)
SU - STUB-UP (SEE NOTE 4)
(X) A - CATHODIC PROTECTION ANODE(S)
(SEE NOTE 6)
(X) T - CATHODIC PROTECTION TEST STATION
(SEE NOTE 6)

ADDED FPU VALVE NUMBER
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REVISION	52447	VT	RET	LP	LA	SF	SEC
			CHECKED				PROJ. MGR.
			APPROVED				PROJ. TECH.
							PROJ. TECH.

ISSUED FOR CONSTRUCTION

8/13/10 *[Signature]* 10 25 8

PROJECT ENGINEERING DIVISION
PSEG

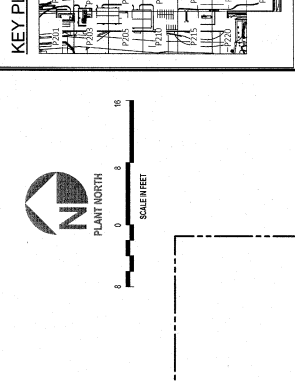
SNC • LAVALIN
CONSTRUCTORS INC.
Prius Construction LLC

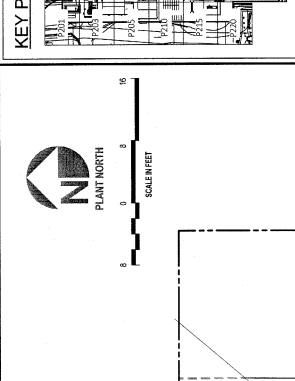
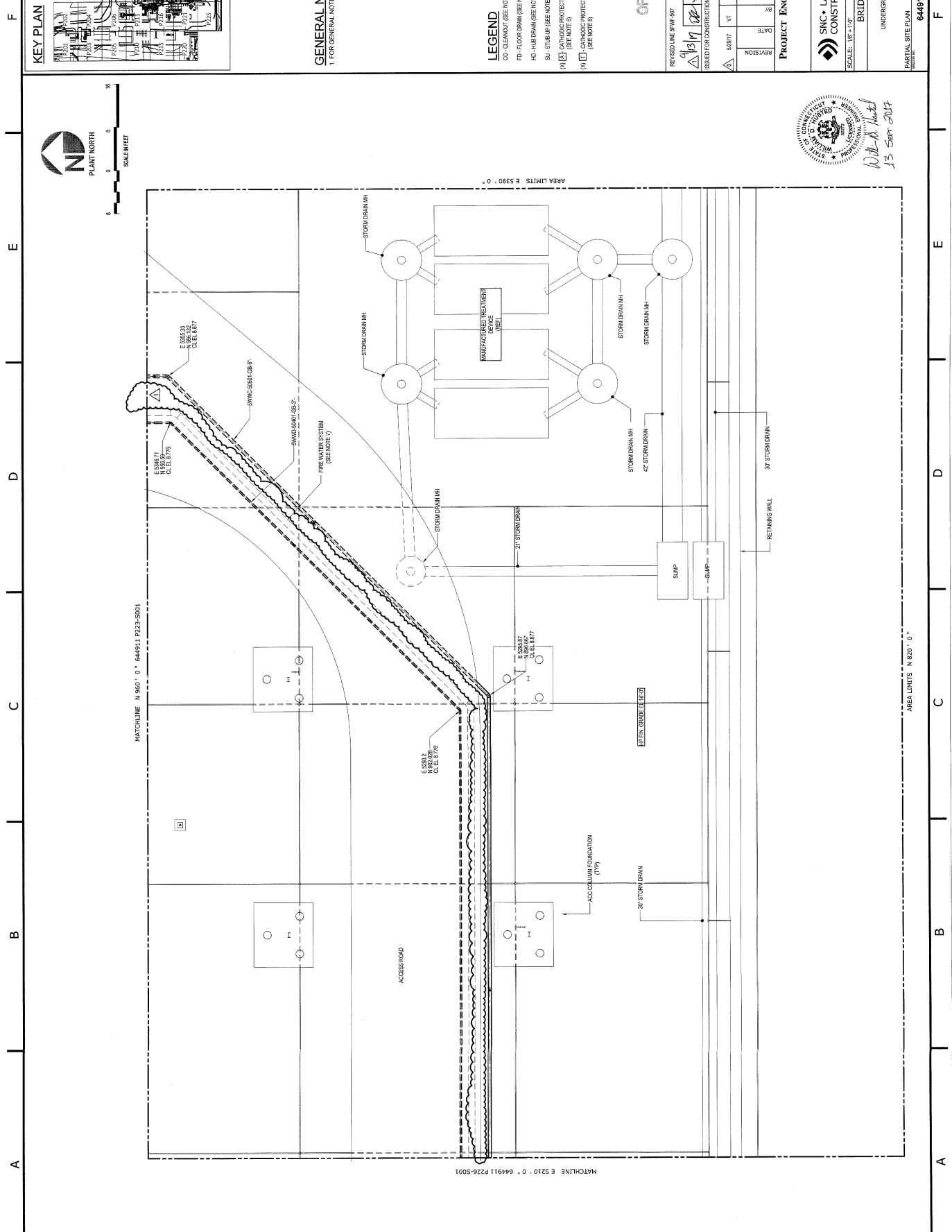
SCALE: 1/8" = 1'-0"

BRIDGEPORT 05

YARD
UNDERGROUND PIPING PLAN
AREA 25

PARTIAL SITE PLAN	DESIGN - CIVIL GENERAL	REV	1
644911 P225-S001			

[illegible]



GENERAL NOTES:

1. FOR GENERAL NOTES SEE DWG 644911 P226-5001

LEGEND

- CO - CLEANOUT (SEE NOTE 3)
- FD - FLOOR DRAIN (SEE NOTE 3)
- HC - HUB DRAIN (SEE NOTE 3)
- SU - SUB-UP (SEE NOTE 4)
- (X) - CATHODIC PROTECTION ANODES (SEE NOTE 5)
- (X) - CATHODIC PROTECTION TEST STATION (SEE NOTE 5)

ORIGINAL

REVISED LINE #176-507
9/13/17 12:08 4 10 5F
ISSUED FOR CONSTRUCTION

REVISION	DATE	BY	CHECKED	APPROVED	PROJ. TECH.	DIA. TECH.
1	5/29/17	VT	RET	UP	LA	SF

PROJECT ENGINEERING DIVISION
PSEC

SNC • LAVALIN
CONSTRUCTORS INC.

SCALE: 1/8" = 1'-0"

BRIDGEPORT 05

UNDERGROUND PIPING PLAN
AREA 27

PARTIAL SITE PLAN
DESIGN: CIVIL GENERAL

644911 P227-5001



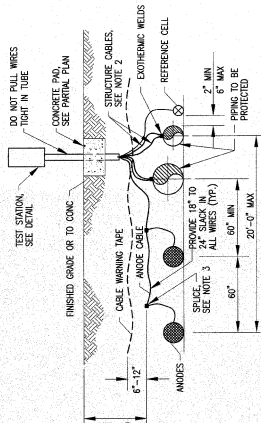
GENERAL NOTES:
1. FOR GENERAL NOTES SEE DWG
644911 P200-S001.

NOTES:

- [illegible]

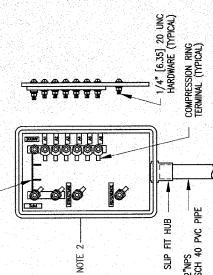
TYPICAL ANODE AND TEST STATION INSTALLATION

- NOTES:
1. SEE BILL OF MATERIALS FOR COMPLETE COMPONENT DESCRIPTIONS.
2. STRUCTURE CABLES SHALL BE PERMANENTLY LABELED TO IDENTIFY THE PIPING TO WHICH IT IS CONNECTED.
3. THE USE OF SURFACES SHALL BE KEPT TO A MINIMUM. IF THE CABLE SUPPLIED WITH THE WAGO IS OF SUFFICIENT LENGTH TO CONNECT DIRECTLY TO THE TEST STATION, NO STRAP SHALL BE USED.
- NO SCALE



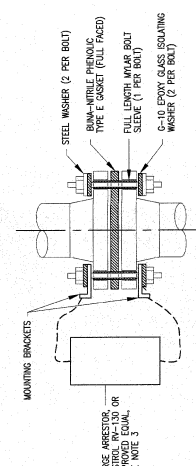
TYPICAL TEST STATION

- NOTES:
1. EACH ANODE INSTALLED FOR NATURAL GAS PIPING SHALL BE CONNECTED TO A TEST STATION. NO MORE THAN 6 ANODES SHALL BE CONNECTED TO A SINGLE TEST STATION. CABLES SHALL CONNECT THE PIPING (STRUCTURE) TO EACH TEST STATION.
2. TEST STATION JUNCTION BOXES SHALL HAVE NEMA GRADE C PHENOLIC PANELS AND NEMA TYPE 4T FIBERGLASS ENCLOSURES.
3. TEST STATION CABLE CONNECTIONS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WIRING DIAGRAMS. ANODE AND REFERENCE CATHODE TESTING



TYPICAL ISOLATING FLANGED JOINT

- NO SCALE
- NOTES:
1. ISOLATING FLANGE WTS SHALL BE INSTALLED AFTER THE CATHODIC PROTECTION SYSTEM HAS BEEN TESTED AND COMMISSIONED.
 2. ALL COMPONENTS SHALL BE COMPATIBLE WITH THE PRESSURE RATING OF THE MATING FLANGES AND THE FLUID DESIGN TEMPERATURE.
 3. SURGE PRESSURES ARE REQUIRED FOR NATURAL GAS SPRING SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. REPLACE STEEL WASHERS FOR ONE FLANGE BOLT WITH MOUNTING BRACKET.

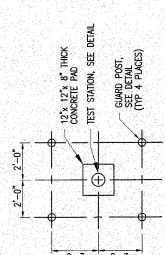


CATHODIC PROTECTION SYSTEM

BILL OF MATERIALS

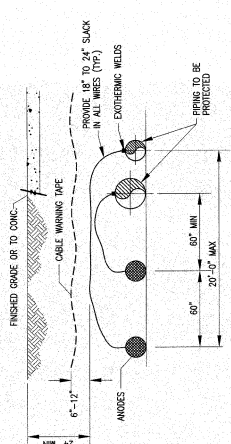
DESCRIPTION	NO. SCALE
PREPARED 20 LB MAGNESIUM ANODE WITH #12 SINGLE CONDUCTOR STRANDED COPPER, BLACK RHW PE INSULATED CABLE	1
PREPARED 20 LB MAGNESIUM ANODE WITH #12 SINGLE CONDUCTOR STRANDED COPPER, YELLOW RHW PE INSULATED CABLE	2
CONDUCTOR STRANDED COPPER, YELLOW RHW PE INSULATED CABLE, 12 INCHES LONG, CAPPED COPPER, BLACK RHW PE INSULATED CABLE	3
#12 ANODE SINGLE CONDUCTOR STRANDED COPPER, WHITE RHW PE INSULATED STRUCTURE CABLE	4
CONNECTIONS ON HORIZONTAL PIPING	5
SMALLER THAN PIPS, CAPPED PART NUMBER CASH-1H	6
EXOTHERMIC WELDER FOR CONNECTIONS ON HORIZONTAL PIPING	7
PIPS AND LARGER, CAPPED PART NUMBER CASH-1H	8
SMALLER THAN PIPS, CAPPED PART NUMBER CASH-1H	9
CONNECTIONS ON VERTICAL PIPING	10
EXOTHERMIC WELDER FOR CONNECTIONS ON VERTICAL PIPING BETWEEN PIPS AND 10 PIPS, CAPPED PART NUMBER CASH-1H	11
CONNECTIONS ON VERTICAL PIPING BETWEEN PIPS AND 12 PIPS AND LARGER, CAPPED PART NUMBER CASH-1H	12
EXOTHERMIC WELD METAL, CAPPED PART NUMBER CASH-1H	13
EXOTHERMIC WELD SLEEVE FOR #12 CONDUCTOR, CAPPED PART NUMBER CASH-1H	14
1/2" HOOD QUICK CURE EXOTHERMIC WELD SEALER	15
5" WIDE RIB CABLE WARNING TAPE	16

TYPICAL TEST STATION AREA PARTIAL PLAN



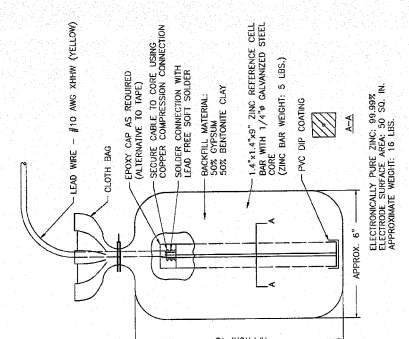
TYPICAL ANODE INSTALLATION

- NOTES: NO SCALE SEE BILL OF MATERIALS FOR COMPLETE COMPONENT DESCRIPTIONS



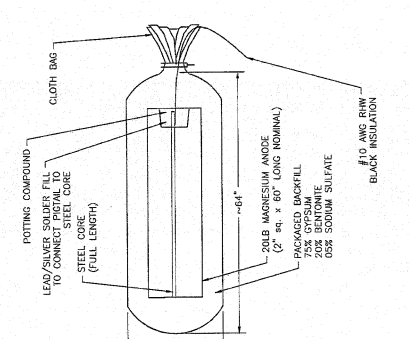
REFERENCE CELL

- NO SCALE



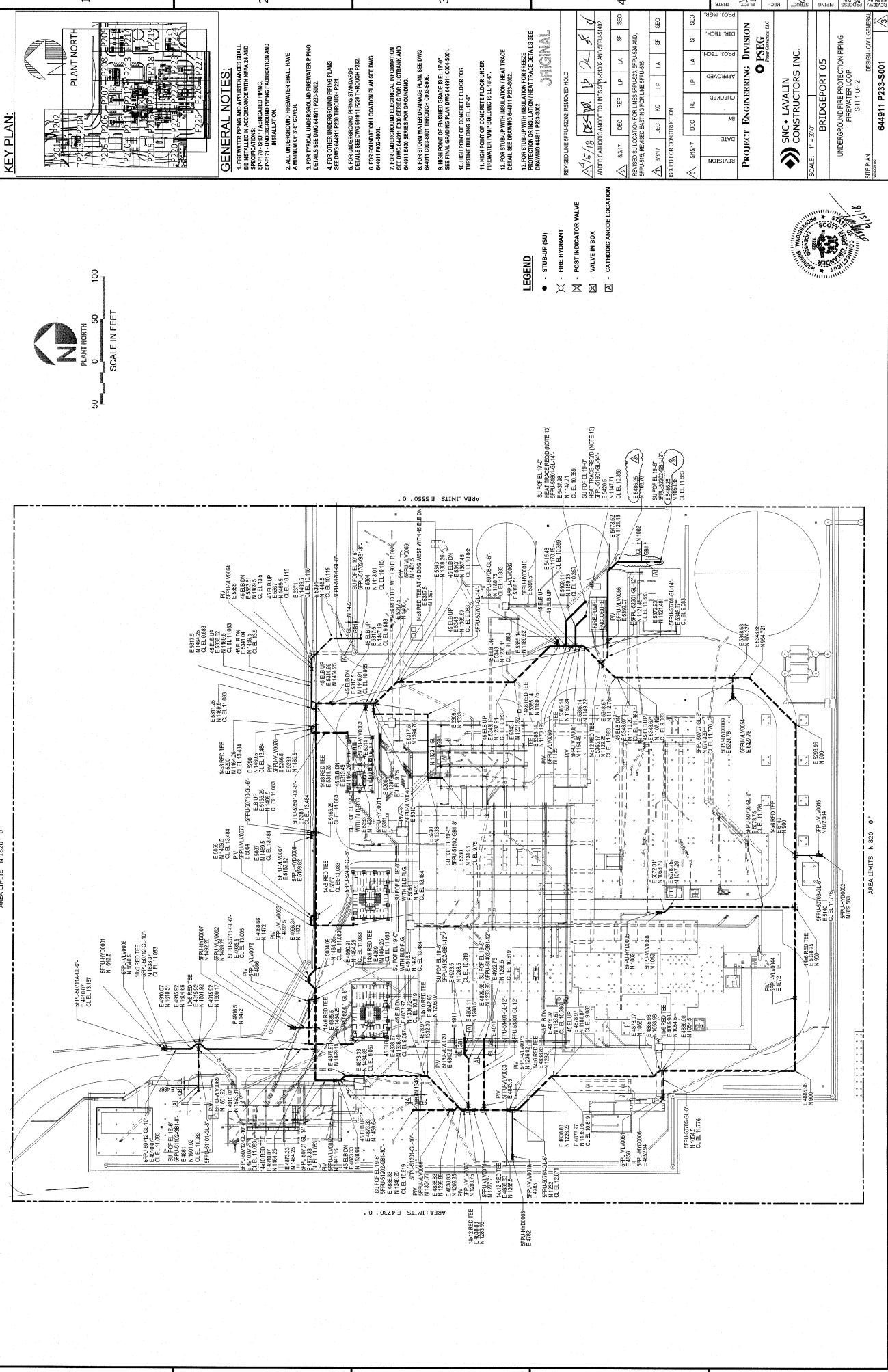
PREPACKAGED CALVANIC ANODE

- NO SCALE

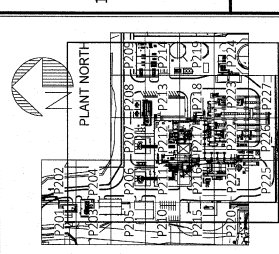


REFERENCE SPECS:
544911-SP-P200 PIPING MATERIALS
544911-SP-P171 UNDERGROUND PIPING
FABRICATION AND
INSTALLATION

ORIGINAL



KEY PLAN:



GENERAL NOTES:

1. FIREWATER PIPING AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 14 AND SPRINKLER PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13.
2. ALL UNDERGROUND FIREWATER SHALL HAVE A MINIMUM OF 3'-0" COVER.
3. FOR TYPICAL UNDERGROUND FIREWATER PIPING DETAIL SEE DWG 644911 P233-000.
4. FOR OTHER UNDERGROUND PIPING PLANS SEE DWG 644911 P233-000.
5. FOR UNDERGROUND PIPING DETAIL SEE DWG 644911 P233-000.
6. FOR UNDERGROUND PIPING DETAIL SEE DWG 644911 P233-000.
7. FOR UNDERGROUND ELECTRICAL INFORMATION SEE DWG 644911 P233-000.
8. FOR UNDERGROUND ELECTRICAL INFORMATION SEE DWG 644911 P233-000.
9. HIGH POINT OF FINISHED GRADE SEE EL. 19'-0".
10. HIGH POINT OF FINISHED GRADE SEE EL. 19'-0".
11. HIGH POINT OF FINISHED GRADE SEE EL. 19'-0".
12. FOR STUB-UP WITH INSULATION HEAT TRACE DETAIL SEE DWG 644911 P233-000.
13. FOR STUB-UP WITH INSULATION HEAT TRACE DETAIL SEE DWG 644911 P233-000.
14. FOR STUB-UP WITH INSULATION HEAT TRACE DETAIL SEE DWG 644911 P233-000.
15. FOR STUB-UP WITH INSULATION HEAT TRACE DETAIL SEE DWG 644911 P233-000.
16. FOR STUB-UP WITH INSULATION HEAT TRACE DETAIL SEE DWG 644911 P233-000.
17. FOR STUB-UP WITH INSULATION HEAT TRACE DETAIL SEE DWG 644911 P233-000.
18. FOR STUB-UP WITH INSULATION HEAT TRACE DETAIL SEE DWG 644911 P233-000.
19. FOR STUB-UP WITH INSULATION HEAT TRACE DETAIL SEE DWG 644911 P233-000.
20. FOR STUB-UP WITH INSULATION HEAT TRACE DETAIL SEE DWG 644911 P233-000.

LEGEND

- STUB-UP (SU)
- ⊗ FIRE HYDRANT
- ⊗ POST INDICATOR VALVE
- ⊗ VALVE IN BOX
- ⊗ CATHODIC ANODE LOCATION

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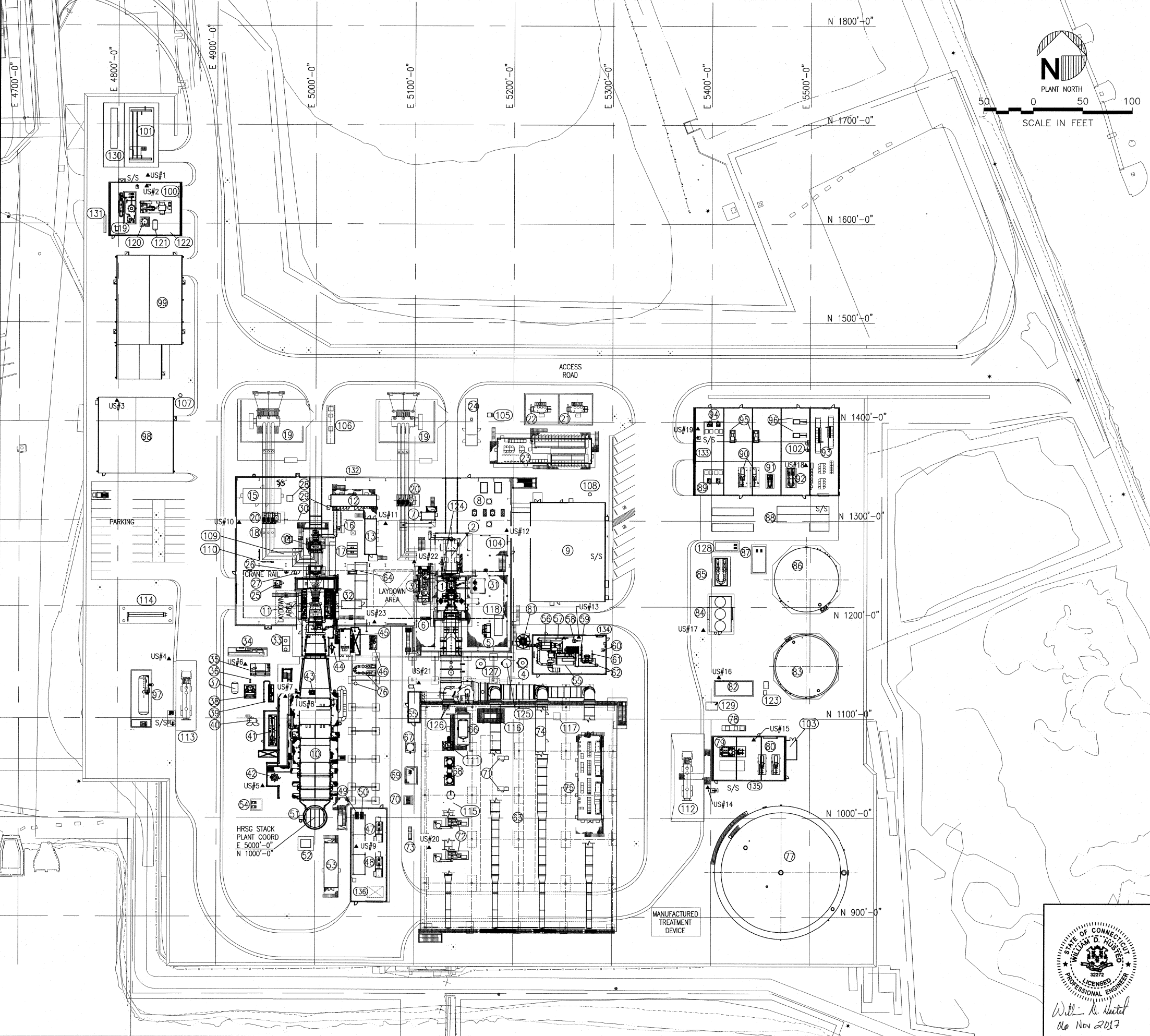
Connecticut Siting Council – Development and Management Plan Update No. 3
PSEG Bridgeport Harbor Station Unit 5
Petition No. 1218 (Approved July 21, 2016)
February 28, 2019

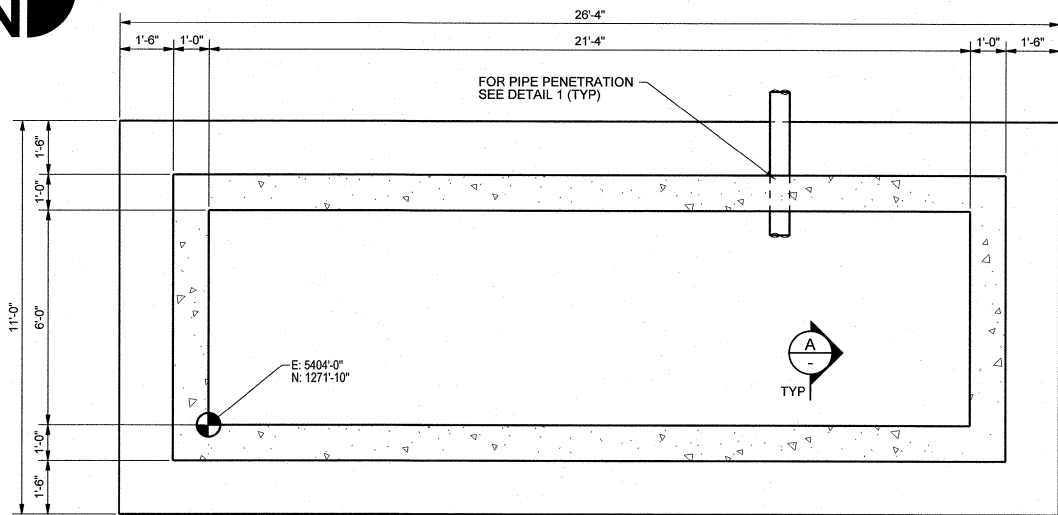
Exhibit 4 General Arrangement and Foundation Plan Update

The most recent General Arrangement drawing is included to update the CSC records and for reference. There have been no changes of significance since the previous submittal in April 2018. Additionally, the specific Plans and Details for the Recycle Sump (No. 128 on the General Arrangement) and the overall Foundation Location Plan are included.

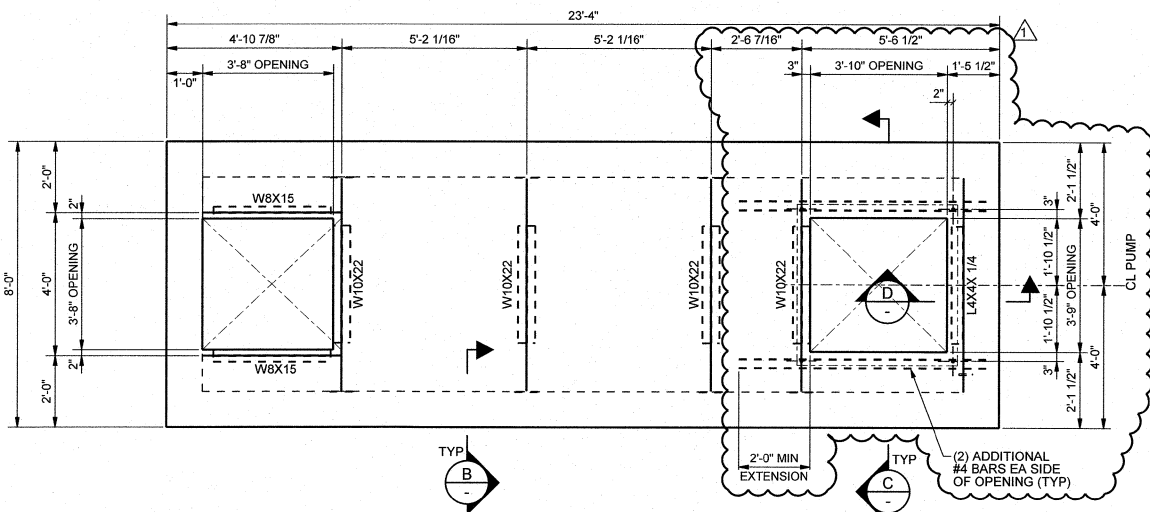
<u>Drawing No.</u>	<u>Rev.</u>	<u>Drawing Title</u>
644911 GA002-S001	1	Plant Layout – Power Block General Arrangement
644911 F043-S001	1	Recycle Water Sump – Foundation Plan
644911 F002-S001	16	Foundation Location Plan Sheet 1 of 1

- 1
- 2
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- 1 STEAM TURBINE
- 2 STEAM TURBINE GENERATOR
- 3 STG LUBE/HYDRAULIC OIL SKID
- 4 STEAM TURBINE DRAINS TANK
- 5 GLAND STEAM CONDENSER
- 6 STG LUBE OIL COOLER EMERGENCY COOLING WATER PUMP
- 7 STG EXCITATION COMPARTMENT
- 8 AIR COMPRESSOR EQUIPMENT AREA
- 9 ADMIN/CONTROL/AUX ELECTRICAL BUILDING (PEMB)
- 10 HEAT RECOVERY STEAM GENERATOR (HRSG)
- 11 CTG TURBINE
- 12 CTG LCI/EXCITATION COMPARTMENT
- 13 PECC
- 14 CTG GENERATOR
- 15 CTG BATTERY COMPARTMENT
- 16 CTG EXCITATION TRANSFORMER
- 17 CTG LCI TRANSFORMER
- 18 CTG SURGE & VT CMPT
- 19 CTG GSU AND STG GSU
- 20 GENERATOR CIRCUIT BREAKER
- 21 UNIT AUX TRANSFORMER 2000
- 22 UNIT AUX TRANSFORMER 1000
- 23 MV ELECTRICAL PDC ENCLOSURE
- 24 STANDBY DIESEL GENERATOR
- 25 CTG WATER WASH SKID
- 26 CTG GAS DRYER
- 27 GE-H2 CONTROL PANEL (GT GEN)
- 28 DC LINK REACTOR
- 29 AC REACTOR
- 30 CTG NEUTRAL GROUND TRANSFORMER
- 31 STG GAS DRYER
- 32 CTG 7A WATER MIST FIRE PROTECTION SKID
- 33 WATER WASH/FALSE START DRAIN TANK (UG)
- 34 FUEL GAS PERFORMANCE HEATER
- 35 AUX STEAM TO WATER START UP FUEL HEATER
- 36 FUEL GAS FLOW METER
- 37 FUEL GAS CONDITIONING SKID DRAINS TANK
- 38 FUEL GAS ABSOLUTE SEPARATOR
- 39 HRSG GE BURNER FUEL SKID
- 40 CEMS SHELTER INLET
- 41 HRSG AMMONIA FLOW CONTROL SKID
- 42 HRSG BLOWDOWN TANK
- 43 HRSG GE COOLING AIR BLOWER SKID
- 44 FUEL GAS SCRUBBER
- 45 CTG LUBE OIL RESERVOIR
- 46 CTG LIQUID FUEL FILTER SKID
- 47 FEEDWATER PUMP A
- 48 FEEDWATER PUMP B
- 49 RECIRCULATION PUMP SKID A
- 50 RECIRCULATION PUMP SKID B
- 51 HRSG STACK
- 52 CEMS SHELTER
- 53 HRSG ELECTRICAL PDC ENCLOSURE
- 54 HRSG BLOWDOWN SUMP PUMPS 1A & 1B
- 55 AUXILIARY BOILER
- 56 ECONOMIZER
- 57 BOILER FEEDWATER REGULATING SKID
- 58 AUX BOILER BLOWDOWN TANK
- 59 DEAERATOR PEGGING REGULATOR SKID
- 60 AUX BOILER SAFETY SHOWER
- 61 MAKE-UP WATER REGULATING SKID
- 62 AUX BOILER DEAERATOR AND FEED PUMP SKID
- 63 AIR COOLED CONDENSER (ACC)
- 64 CT INLET FILTER GLYCOL WATER HEAT EXCHANGER
- 65 HRSG SAMPLE PANEL ENCLOSURE
- 66 ACC CONDENSATE COLLECTION TANK AND DEAERATOR
- 67 RESIN RECOVERY TANK
- 68 PRECOAT POLISHING SKID A & B
- 69 SPENT SLURRY SUMP PUMPS A & B
- 70 WASTE WATER COLLECTION SUMP PUMPS A & B
- 71 CONDENSATE PUMPS A & B
- 72 LIQUID RING VACUUM PUMPS A & B
- 73 SOUTH OIL/WATER SEPARATOR (UG)
- 74 CYCLE CHEMICAL FEED ENCLOSURE
- 75 ACC ELECTRICAL PDC ENCLOSURE
- 76 CT AIR INLET HEATING CLOSED COOLING WATER SKID
- 77 ULSD (ULTRA LOW SULFUR DIESEL) TANK
- 78 EAST OIL/WATER SEPARATOR (UG)
- 79 FUEL OIL UNLOADING PUMP SKID
- 80 FUEL OIL FORWARDING PUMPS A & B
- 81 AUX BOILER STACK
- 82 FIRE PUMP ENCLOSURE
- 83 SERVICE/FIRE WATER STORAGE TANK
- 84 AUX COOLING TOWER
- 85 AUX COOLING WATER PUMP SKID
- 86 DEMINERALIZED WATER TANK
- 87 GENERAL SERVICES ENCLOSURE SUMP PUMPS A & B
- 88 DEMINERALIZED WATER TANKS
- 89 SCALE/CORROSION INHIBITOR FEED PUMP SKIDS
- 90 CT WATER INJECTION SKIDS A & B
- 91 DEMIN WATER PUMP SKID
- 92 SERVICE WATER PUMP SKID
- 93 ELECTRICAL DCS ROOM
- 94 SODIUM HYPOCHLORITE/ACID FEED PUMP SKIDS
- 95 CLOSED CYCLE COOLING WATER PUMPS A & B
- 96 CLOSED CYCLE COOLING WATER HEAT EXCHANGERS A & B
- 97 AMMONIA UNLOADING AND STORAGE AREA
- 98 WAREHOUSE/MAINTENANCE BUILDING
- 99 GIS BUILDING
- 100 FG COMPRESSOR & ENCLOSURE
- 101 FG SOUTHERN CONNECTICUT GAS METERING AREA
- 102 SAMPLE PANEL
- 103 FUEL OIL FOAM ENCLOSURE
- 104 ELECTRIC SUPER HEATER
- 105 DIESEL GENERATOR LOAD BANK
- 106 NORTH OIL/WATER SEPARATOR (UG)
- 107 SANITARY LIFT STATION
- 108 SANITARY LIFT STATION
- 109 CO2 MANIFOLD CT GEN
- 110 GAS CONTROL VALVES CT GEN
- 111 ADVANCED PRECOAT SKID
- 112 FUEL OIL TRUCK UNLOADING AREA
- 113 AMMONIA TRUCK UNLOADING AREA
- 114 BULK HYDROGEN SYSTEM
- 115 POLISHER AIR RECEIVER
- 116 STEAM JET AIR EJECTOR
- 117 FIN TUBE CLEANING SYSTEM
- 118 ELECTRIC SUPER HEATER
- 119 FUEL GAS LUBE OIL SKID
- 120 SUCTION SCRUBBER
- 121 FG COMPRESSOR DRAINS TANK
- 122 GAS CHROMATOGRAPH
- 123 WASTE WATER FILTER SKID
- 124 CO2 MANIFOLD ST GENERATOR
- 125 CCW EXPANSION TANK
- 126 STEAM DUCT DRAIN POT PUMPS A&B
- 127 STG VACUUM DRAINS TANK
- 128 RECYCLE WATER SUMP PUMPS A & B
- 129 SERVICE WATER CORROSION INHIBITOR PUMP SKID
- 130 FUEL GAS METERING SKID
- 131 FUEL GAS PRESSURE REDUCING SKID
- 132 TURBINE GENERATOR ENCLOSURE
- 133 GENERAL SERVICES ENCLOSURE
- 134 AUX BOILER ENCLOSURE
- 135 FUEL OIL FORWARDING PUMP ENCLOSURE
- 136 BOILER FEEDWATER PUMP ENCLOSURE
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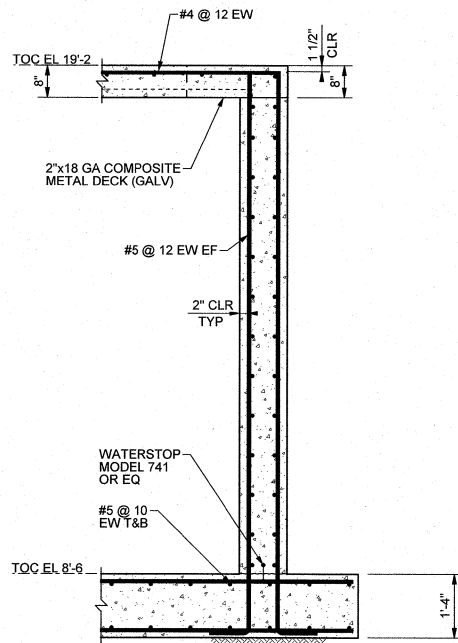




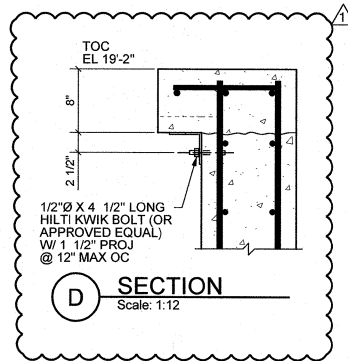
PLAN AT TOC EL 8'-6"
CONC VOL = 59.0 CU YDS SCALE: 1:32



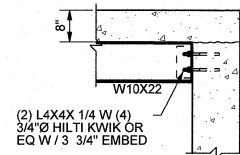
PLAN AT TOC EL 19'-2"
SCALE: 1:32



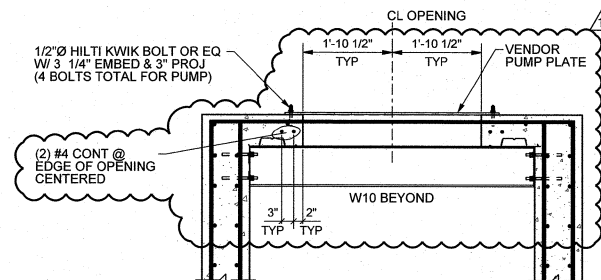
SECTION A
Scale: 1:24



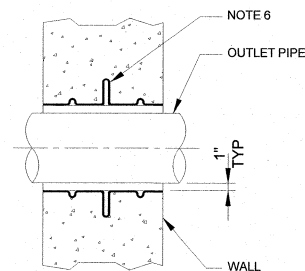
SECTION D
Scale: 1:12



SECTION B
Scale: 1:24



SECTION C
Scale: 1:24



DETAIL 1
NTS

GENERAL NOTES:

1. FOR STRUCTURAL NOTES SEE DRAWING 644911 S001-S001
2. FOR STANDARD CONCRETE DETAILS SEE DRAWING 644911 F001-S001 & S002
3. CONCRETE STRENGTH @ 28 DAYS = 5000 PSI.
4. LID LIVE LOAD = 200 PSF.
5. HATCH LIDS SHALL BE NEENAH R6660-RP LIGHT DUTY LID AND FRAME OR APPROVED ALTERNATE.
6. PROVIDE 'CENTURY-LINE SLEEVE' OR APPROVED ALTERNATE FOR ALL PIPE PENETRATIONS. INSTALL PER MANUFACTURERS WRITTEN RECOMMENDATIONS.
7. BACKFILL SHALL BE DOT STANDARD M.02.06 TYPE C, COMPACTED TO TO 95% MAX DRY DENSITY.
8. ALL STEEL TO BE GALVANIZED.
9. FOR UNDERGROUND PIPING SEE DRAWING 644911 P200-S001.
10. FOR UNDERGROUND ELECTRICAL SEE DRAWING 644911 E303-S001.

LEGEND:

REFERENCE DWGS:

REFERENCE SPECS:

ORIGINAL

REVISED RECYCLE WATER PUMP OPENING

5/4/18 BS CL CL [Signature]

ISSUED FOR CONSTRUCTION

10/16/2017 AS MK GG GG/LA SF SO

REVISION	DATE	BY	CHECKED	APPROVED	PROJ. TECH.	DIR. TECH.	PROJ. MGR.

PROJECT ENGINEERING DIVISION
PSEG
Power Connecticut LLC

SNC • LAVALIN
CONSTRUCTORS INC.

SCALE: AS NOTED

BRIDGEPORT 05

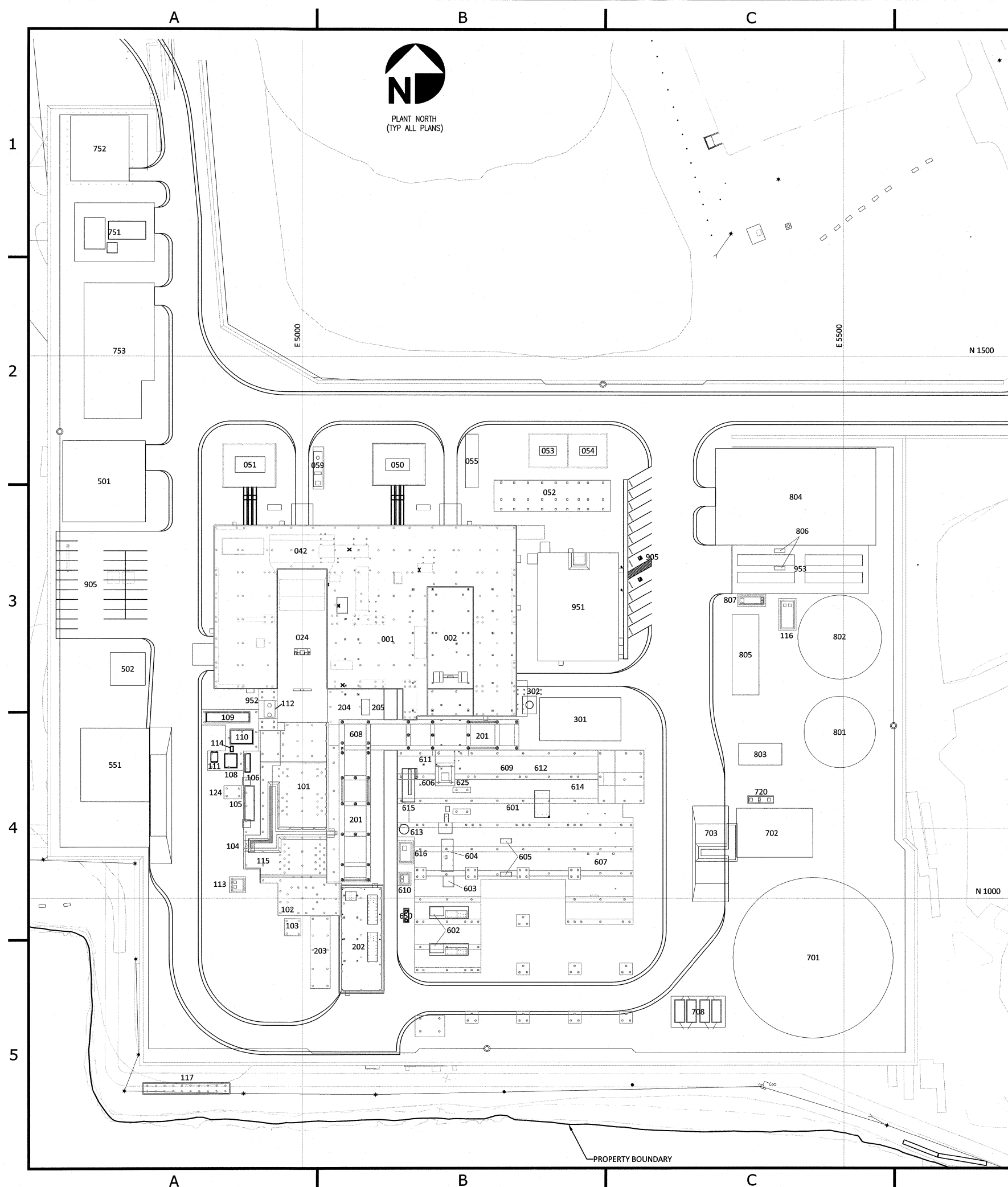
RECYCLE WATER SUMP
FOUNDATION PLAN

SHT 1 OF 1

DESIGN-CIVIL CONCRETE

VENDOR NO. 644911 F043-S001





FOUNDATION DRAWING SCHEDULE		
ITEM	DESCRIPTION	FOUNDATION DWG No.
001	TURBINE/GENERATOR ENCLOSURE (PEMB) FOUNDATION	644911 F003-S005 (PILE PLAN) 644911 F005-S001
002	STG FOUNDATION	644911 F003-S006 (PILE PLAN) 644911 F006-S001
024	GAS TURBINE GENERATOR FOUNDATION	644911 F003-S002 (PILE PLAN) 644911 F004-S001
042	CTG AIR INLET FOUNDATION	644911 F004-S001
050	STG GSU TRANSFORMER FOUNDATION	644911 F003-S004 (PILE PLAN) 644911 F007-S001
051	CTG GSU TRANSFORMER FOUNDATION	644911 F003-S004 (PILE PLAN) 644911 F008-S001
052	MV ELECTRICAL PDC ENCLOSURE FOUNDATION	644911 F009-S001
053	UNIT AUX TRANSFORMER 2000 FOUNDATION	644911 F003-S010 (PILE PLAN) 644911 F010-S001
054	UNIT AUX TRANSFORMER 1000 FOUNDATION	644911 F003-S010 (PILE PLAN) 644911 F010-S001
055	STANDBY DIESEL GENERATOR FOUNDATION	644911 F047-S001
059	OIL/WATER SEPARATOR (UG) FOUNDATIONS	644911 F012-S003
101	HEAT RECOVERY STEAM GENERATOR FOUNDATION	644911 F003-S003 (PILE PLAN) 644911 F013-S001
102	HEAT RECOVERY STEAM GENERATOR STACK FOUNDATION	644911 F013-S001
103	CEMS EQUIPMENT MODULE FOUNDATION	644911 F054-S001
104	HRSG BLOWDOWN TANK FOUNDATIONS	644911 F013-S001
105	HRSG AMMONIA FLOW CONTROL SKID FOUNDATION	644911 F013-S001
106	HRSG BURNER FUEL SKID FOUNDATION	644911 F013-S001
108	FUEL GAS ABSOLUTE SEPARATOR FOUNDATION	644911 F017-S001
109	FUEL GAS PERFORMANCE HEATER FOUNDATION	644911 F017-S001
110	AUX STEAM TO WATER STARTUP FUEL HEATER FOUNDATION	644911 F017-S001
111	FUEL GAS CONDITIONING SKID DRAINS TANK	644911 F017-S001
112	WATER WASH/FALSE START DRAINS TANK (UG) FOUNDATION	644911 F020-S001
113	HRSG BLOWDOWN SUMP FOUNDATION	644911 F021-S001
114	FUEL GAS FLOW METER	644911 F017-S001
115	HRSG ACOUSTIC SHROUD FOUNDATION	644911 F013-S001
116	GENERAL SERVICES ENCLOSURE SUMP FOUNDATION	644911 F056-S001
117	BARGE UNLOADING FOUNDATION	644911 SK012-S001
124	CEMS SHELTER INLET	644911 F017-S001
201	HRSG UTILITY RACK FOUNDATION	644911 F003-S018 (PILE PLAN) 644911 F023-S001
202	BOILER FEEDWATER PUMP ENCLOSURE (PEMB) FOUNDATION	644911 F003-S012 (PILE PLAN) 644911 F024-S001
203	HRSG ELECTRIC PDC ENCLOSURE FOUNDATION	644911 F025-S001
204	CT LUBE OIL RESERVOIR FOUNDATION	644911 F026-S001
205	CT LIQUID FUEL FILTER SKID FOUNDATION	644911 F026-S001
301	AUX BOILER ENCLOSURE (PEMB) FOUNDATION	644911 F003-S007 (PILE PLAN) 644911 F028-S001
302	AUX BOILER STACK FOUNDATION	644911 F003-S007 (PILE PLAN) 644911 F028-S001
501	WAREHOUSE/MAINTENANCE BUILDING FOUNDATION	644911 F029-S001
502	BULK HYDROGEN SYSTEM FOUNDATION	644911 F030-S001
551	AQUEOUS AMMONIA STORAGE & UNLOADING AREA FOUNDATION	644911 F003-S014 (PILE PLAN) 644911 F031-S001
601	AIR COOLED CONDENSER (ACC) FOUNDATION	644911 F003-S009 (PILE PLAN) 644911 F032-S001
602	LIQUID RING VACUUM PUMPS A & B	644911 F032-S001
603	POLISHER AIR RECEIVER	644911 F032-S001
604	PRECOAT POLISHING SKID A & B	644911 F032-S001
605	CONDENSATE PUMPS A & B	644911 F032-S001
606	ADVANCED PRECOAT SKID	644911 F032-S001
607	ACC ELECTRIC PDC ENCLOSURE FOUNDATION	644911 F032-S001
608	CT AIR INLET HEATING CLOSED COOLING WATER SKID	644911 F023-S001
609	STEAM JET AIR EJECTOR	644911 F032-S001
610	WASTE WATER COLLECTION SUMP FOUNDATION	644911 F035-S001
611	STEAM DUCT DRAIN POT PUMPS A & B	644911 F032-S001
612	CYCLE CHEMICAL FEED ENCLOSURE	644911 F032-S001
613	RESIN RECOVERY TANK FOUNDATION	644911 F032-S001
614	FIN TUBE CLEANING SYSTEM	644911 F032-S001
615	HRSG SAMPLE PANEL ENCLOSURE	644911 F032-S001
616	SPENT SLURRY SUMP FOUNDATIONS	644911 F037-S001
625	ACC CONDENSATE COLLECTION TANK AND DEAEATOR FOUNDATION	644911 F032-S001
650	OIL/WATER SEPARATOR (UG) FOUNDATION	644911 F012-S001
701	ULSD TANK (ULTRA LOW SULFUR DIESEL) FOUNDATION	644911 F038-S001
702	FUEL OIL FORWARDING PUMP ENCLOSURE (PEMB) FOUNDATION	644911 F039-S001
703	FUEL OIL TRUCK UNLOADING AREA	644911 F039-S002
708	MANUFACTURED TREATMENT DEVICE FOUNDATION	644911 C003-S001
720	OIL/WATER SEPARATOR (UG) FOUNDATIONS	644911 F012-S002
751	FUEL GAS PROCESSING ENCLOSURE (PEMB) FOUNDATIONS	644911 F003-S013 (PILE PLAN) 644911 F040-S001
752	FUEL GAS METERING STATION FOUNDATIONS	644911 F041-S001
753	GIS ENCLOSURE FOUNDATIONS	644911 F042-S001 (PILE PLAN) 644911 F042-S001
801	SERVICE/FIRE WATER STORAGE TANK FOUNDATION	644911 F044-S001
802	DEMIN WATER TANK FOUNDATION	644911 F045-S001
803	FIRE PUMP ENCLOSURE FOUNDATION	644911 F050-S001
804	GENERAL SERVICES ENCLOSURE (PEMB) FOUNDATION	644911 F051-S001
805	AUX COOLING TOWER FOUNDATION	644911 F052-S001
806	DEMIN TRAILER HOOKUP SUMPS	644911 F058-S001
807	RECYCLE WATER SUMP FOUNDATION	644911 F043-S001
905	PARKING/SIDEWALK	-
951	ADMIN/CONTROL/AUX ELECT BUILDING (PEMB) FOUNDATION	644911 F003-S008 (PILE PLAN) 644911 F046-S001
952	SOUND WALL FOUNDATION	644911 F003-S015 (PILE PLAN) 644911 F057-S001
953	DEMIN WATER TRAILERS/CYCLE MAKEUP TREATMENT FOUNDATION	644911 F053-S001

GENERAL NOTES:

LEGEND:

REFERENCE DWGS:

REFERENCE SPECS:

ORIGINAL

REVISED EQUIPMENT DESCRIPTION									
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">11</div> <div style="border: 1px solid black; padding: 2px;">BS</div> <div style="border: 1px solid black; padding: 2px;">MK</div> <div style="border: 1px solid black; padding: 2px;">GGA</div> <div style="border: 1px solid black; padding: 2px;">2</div> <div style="border: 1px solid black; padding: 2px;">5</div> <div style="border: 1px solid black; padding: 2px;">C</div> </div>									
ADDED FOUNDATION									
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">11/15/17</div> <div style="border: 1px solid black; padding: 2px;">AS</div> <div style="border: 1px solid black; padding: 2px;">MK</div> <div style="border: 1px solid black; padding: 2px;">GG</div> <div style="border: 1px solid black; padding: 2px;">GG/LA</div> <div style="border: 1px solid black; padding: 2px;">SF</div> <div style="border: 1px solid black; padding: 2px;">SF/SO</div> </div>									
ADDED NOTES									
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">11/10/17</div> <div style="border: 1px solid black; padding: 2px;">DC</div> <div style="border: 1px solid black; padding: 2px;">MK</div> <div style="border: 1px solid black; padding: 2px;">GG</div> <div style="border: 1px solid black; padding: 2px;">LA</div> <div style="border: 1px solid black; padding: 2px;">SF</div> <div style="border: 1px solid black; padding: 2px;">SO</div> </div>									
ADDED FOUNDATION & DRAWING NO.'S									
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ADDED FOUNDATION & DRAWING NO.'s									
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ADDED DRAWING NO.'s									
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ADDED FOUNDATIONS									
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REVISION	DATE	BY	CHECKED	APPROVED	PROJ. TECH.	DIR. TECH.	PROJ. MGR.		
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 30%;"> <p>SNC • LAVALIN CONSTRUCTORS INC.</p> </div> <div style="width: 60%; text-align: right;"> <p>PSEG <i>Powder Connecticut LLC</i></p> </div> </div>									
SCALE: 1"=50'									
BRIDGEPORT 05									
FOUNDATION LOCATION PLAN									
SHT 1 OF 1									
DESIGN - CIVIL CONCRETE									
<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <p>PLAN</p> <p>VEHICULAR NO.</p> </div> <div style="text-align: center;"> <p>644911 F002-S001</p> </div> <div style="text-align: right;"> <p>REV</p> <p>1</p> </div> </div>									