GeoDesign Inc
AN NV5 COMPANY

February 12, 2021

Oregon Department of Environmental Quality
700 NE Multnomah Street, Suite 600
Portland, OR 97232

Attention: Robert Hood

Stormwater Conveyance System Cleaning and Scoping
Former Automatic Vending Company
5001 North Lagoon Avenue
Portland, Oregon
ECSI File No. 1430
GeoDesign Project: BCSAmerica-1-02

INTRODUCTION

GeoDesign, Inc. is pleased to submit this report summarizing cleaning and scoping of the stormwater conveyance system conducted at the Former Automatic Vending Company site located at 5001 North Lagoon Avenue in Portland, Oregon (project site). The project site includes Tax Lot 700 of Multnomah County Tax Map 1N1E20A and is in the upland portion of the Portland Harbor Superfund study area on Swan Island. The scope of services was conducted in general accordance with the Oregon Department of Environmental Quality (DEQ)-approved Work Plan.[1] The project site is shown relative to surrounding physical features on Figure 1. The project site layout and adjacent properties are shown on Figure 2.

BACKGROUND

The warehouse building on the project site was constructed in 1963 with additions constructed in 1969 and 1978. The shop building located on the southwest portion of the project site was constructed in 1973 – 1974 and consists of an approximately 1,200-square-foot, metal structure with a slab-on-grade foundation.

[1] GeoDesign, Inc., 2021. *Revised Work Plan; Stormwater Conveyance System Sampling; Former Automatic Vending Company; 5001 North Lagoon Avenue; Portland, Oregon; ECSI No. 1430,* dated January 5, 2021. GeoDesign Project: BCSAmerica-1-02

According to a Phase I Environmental Site Assessment prepared by K&S Environmental, Inc. in 2018, the project site has historically been occupied by a distribution warehouse for candy and vending machine businesses (1963 through 2013), catering and equipment occupants and BCS America (2013 through 2019), Total Handling Solutions (2015 through 2019), Temp Control Mechanical (2016 through 2019), and Green State of Mind (2016 through 2019). The project site is currently vacant with a sale pending receipt of a No Further Action determination from DEQ.

The majority of stormwater system infrastructure appears to have been constructed during site development in 1963 and subsequent building additions between 1969 and 1978. The on-site stormwater laterals were identified based on sewer camera inspections (21132 and 120490) conducted in 1984 and 2000, which are available on Portland Maps. The inspections identified laterals that service the project site located approximately 215 feet downstream (northwest) of manhole AAP973 and approximately 41 feet downstream (northwest) of manhole AAP970. Permits obtained from the City of Portland (City) confirm the locations of the laterals. The permits are presented in Attachment A. The locations of the laterals and stormwater manholes are shown on Figure 2.

STORMWATER CONVEYANCE SYSTEM CLEANING AND SCOPING

Stratus Corporation of Gaston, Oregon, installed stormwater cleanouts on the laterals servicing the project site on January 22, 2021. The cleanouts were installed to allow the stormwater system to be blocked during cleaning and as potential compliance sampling points. The cleanouts were installed at the locations shown on Figure 2. The two laterals on the project site consist of 10-inch-diameter concrete pipes located at depths between 3.5 and 4 feet below ground surface. Stratus Corporation installed a 6-inch-diameter standpipe in each lateral using a T-fitting. The excavation was backfilled and patched with asphalt concrete.

Stratus Corporation cleaned and scoped the on-site stormwater conveyance system on January 25, 2021. Each catch basin was initially cleaned using a vacuum truck. Once the solids were removed from the catch basins, a vacuum truck was used to block the stormwater lines at the cleanouts previously installed. Catch basins CB1, CB2, CB3, and CB5 were jetted, and the water/sediment generated during cleaning was captured by the vacuum truck. These lines were scoped to confirm the configuration after cleaning. On the basis of the scoping, it was determined that catch basins CB1 and CB2 discharge to the east lateral while catch basins CB3 and CB5 discharge to the west lateral, as shown on Figure 2. The video footage for scoping conducted on CB1, CB3, and CB5 is provided with this report. Video footage of scoping conducted on catch basin CB2 was not captured because of a technical issue with the recording device.

Catch basins CB4, CB6, and CB7 were not jetted during cleaning because the discharge point of these catch basins was not initially verified. On the basis of the scoping, it was determined that one sewer line serviced catch basins CB4, CB6, and CB7. The line that services catch basins CB4, CB6, and CB7 could not be scoped in its entirety because of a 90-degree bend located in the north parking area that prevented the camera from advancing. However, the following lines of evidence were used to determine that the line connects to the City sanitary sewer system:

- Blueprints show that catch basins CB6 and CB7 connect to the sanitary line (included in Attachment A)
- The 90-degree turn at which the camera could not get past is in line with the known sanitary sewer lateral. The location of the sanitary sewer line is based on a camera inspection (332868) conducted in 2016 and permits. The inspection is available on Portland Maps and the permits are presented in Attachment A.
- A dye test was conducted using catch basin CB6. Dye was observed in the sewer line connected to CB7 and CB4, but die was not observed in either cleanout installed in the two on-site stormwater lines.

The video footage for scoping conducted on catch basin CB4 is included with this report. Video footage of scoping of CB6 and CB7 was not recorded because the camera was obstructed (the lines were not jetted).

During cleaning, 991.84 gallons of water and 0.46 ton of solids were generated and disposed of at Patriot Environmental Services located in Portland, Oregon. The disposal receipts are presented in Attachment B.

CONCLUSIONS AND RECOMMENDATIONS

Based on the sewer inspections available on Portland Maps, permits available through the City, and scoping of the on-site stormwater lines, it was determined that stormwater collection and conveyance at the project site are accomplished via seven on-site catch basins (CB1 through CB7) and building roof drains. Catch basins CB1, CB2, CB3, and CB5 discharge to the on-site laterals that connect to the City stormwater conveyance system as shown on Figure 2. The City stormwater conveyance system discharges to Swan Island Basin via outfall S-2, located approximately 780 feet northwest of the project site. Catch basins CB4, CB6, and CB7 discharge to the City sanitary sewer as shown on Figure 2.

GeoDesign proposes using the two cleanouts installed in the on-site stormwater laterals as compliance sampling points. Catch basins CB4, CB6, and CB7 will not be included in compliance sampling, because it has been determined that they discharge to the City sanitary sewer system. GeoDesign will prepare a separate work plan detailing the proposed stormwater sampling for DEQ approval.

♦ ♦ ♦

Please do not hesitate to contact us if you have questions or require additional information.

Sincerely,

GeoDesign, Inc.

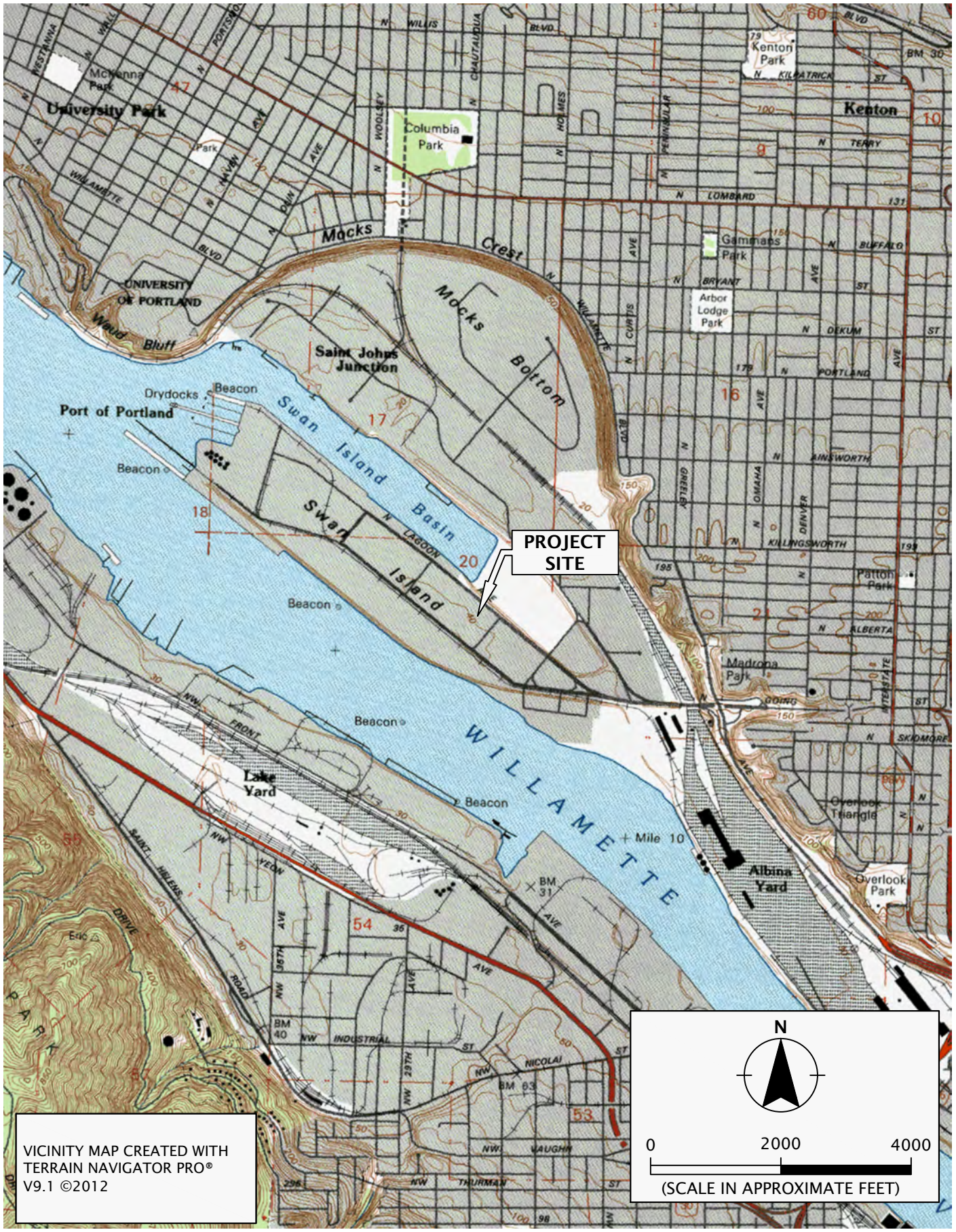
Kyle Haggart, G.I.T.
Project Manager

Lon R. Yandell, R.G.
Principal Geologist

cc: John Jansen, BCS America LLC (via email only)

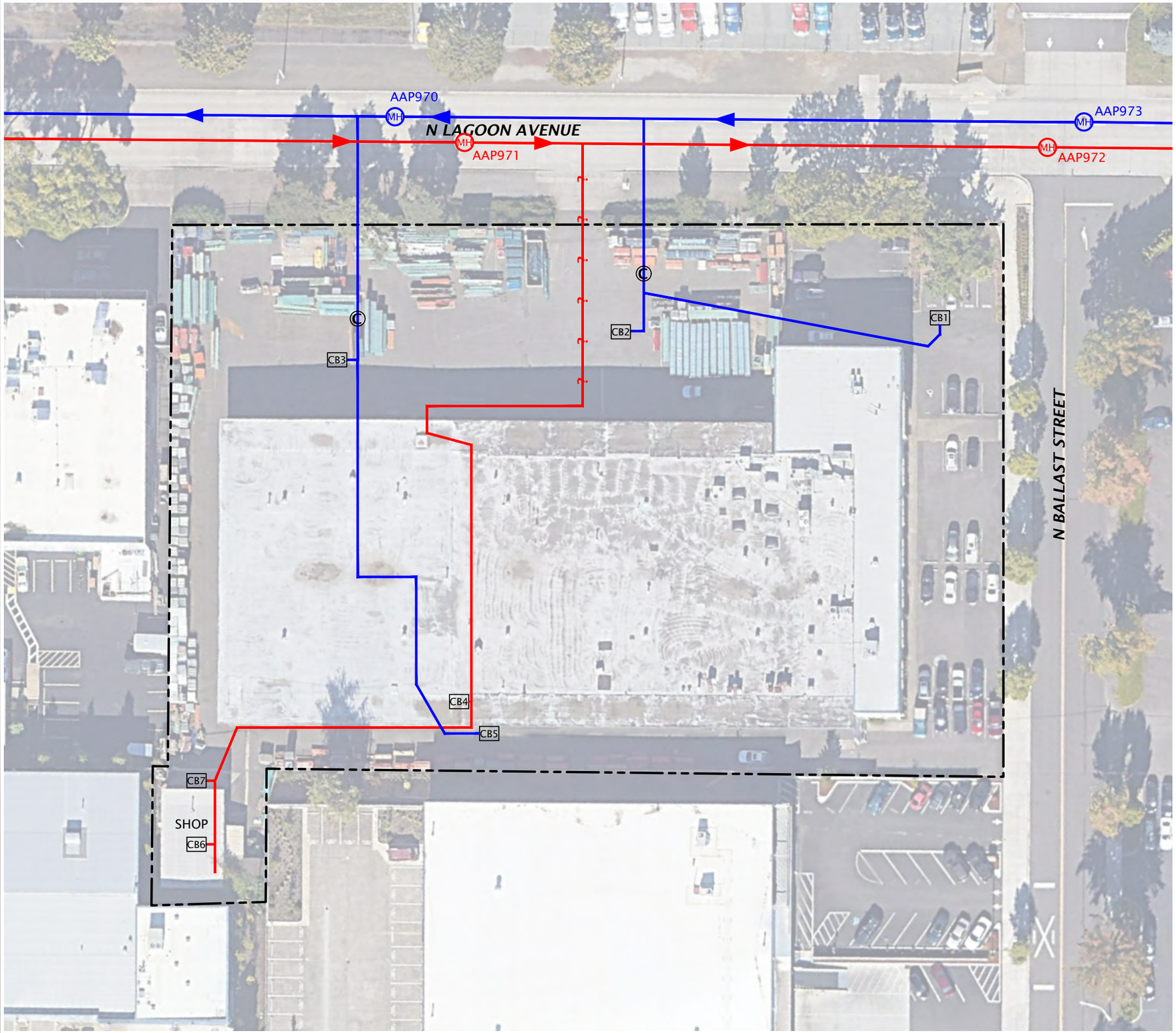
KTH:LRY:sn
Attachments
One copy submitted (via email only)
Document ID: BCSAmerica-1-02-021221-envlr-CS.docx

FIGURES



GeoDesign Inc AN NV5 COMPANY	BCSAMERICA-1-02	**VICINITY MAP**	
	FEBRUARY 2021	FORMER AUTOMATIC VENDING COMPANY PORTLAND, OR	**FIGURE 1**

Printed By: aday | Print Date: 2/10/2021 2:39:23 PM
File Name: J:\A-D\BCSAmerica\BCSAmerica-1\BCSAmerica-1-02\Figures\CAD\BCSAmerica-1-02-VM01.dwg | Layout: FIGURE 1



LEGEND:

- PROJECT SITE BOUNDARY
- STORM LINE (FLOW DIRECTION SHOWN)
- SANITARY LINE (FLOW DIRECTION SHOWN)
- CB1 — CATCH BASIN
- © — CLEANOUT (INSTALLED JANUARY 2021)
- AAP970 MH — MANHOLE

NOTE:

QUESTION MARKS DENOTE PORTIONS OF THE LINE THAT COULD NOT BE SCOPED.

N

0 50 100

(SCALE IN FEET)

SITE PLAN BASED ON AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO®, FEBRUARY 28, 2020

SITE PLAN

FIGURE 2

FORMER AUTOMATIC VENDING COMPANY
PORTLAND, OR

BCSAMERICA-1-02

FEBRUARY 2021

GeoDesign NW
AN NV5 COMPANY

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File Name: J:\A-D\BCSAmerica\BCSAmerica-1\BCSAmerica-1-02\Figures\CAD\BCSAmerica-1-02-SP02.dwg | Layout: FIGURE 2

ATTACHMENT A

2526

FORM W 271 I
12 60

SANITARY ONLY #79195

CITY OF PORTLAND, OREGON
DEPARTMENT OF PUBLIC WORKS
BUREAU OF MAINTENANCE
SEWER BRANCH

Pmt. No. 79194

Date Feb. 18, 1963

Location 5001 N. Lagoon Ave.

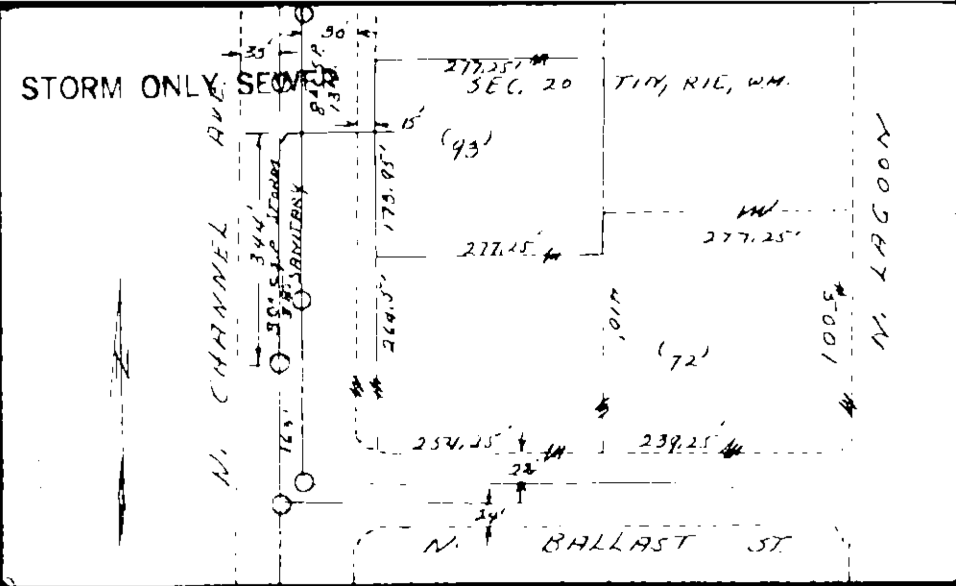
Between

Addition Sec. 20, 1N. 1E. Lot Part of EL 14

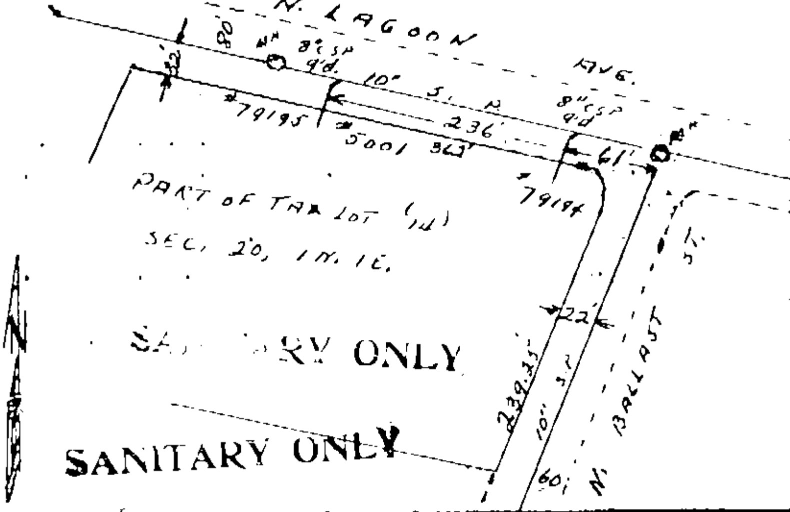
Applicant Temp Control Corp. Remarks 79194-All measurements & Inspections by Raz. Construction Inspector. 8" C.S.P. 61' W of MH at N. Ballast St. 9' deep. 79195-Meas. & Insp. by Raz, Constr. Insp. 8" C.S.P. 236' W of MH at N. Ballast St. 9' deep.

Inspected 19 By

Book 11 Page 23 New Repair



STORM ONLY SEWER
SEC. 20
T1N, R1E, W.M.
(43)
(72)
N. CHANNEL AVE
N. LAGOON
N. BALLAST ST.
277.25'
277.25'
277.25'
179.95'
264.5'
254.25'
239.25'
410'
1005'
344'
90'
35'
15'
22
24'
SANITARY
STORM



N. LAGOON
AVE.
80'
10" S. R.
236'
#79195
#5001 SQ
61'
#79194
PART OF TAX LOT (14)
SEC. 20, 1N. 1E.
22'
SANITARY ONLY
239.35'
10" S.P.
60'
N. BALLAST
ST.
SANITARY ONLY
N

12526

STORM ONLY

FORM W 271 1
12 60

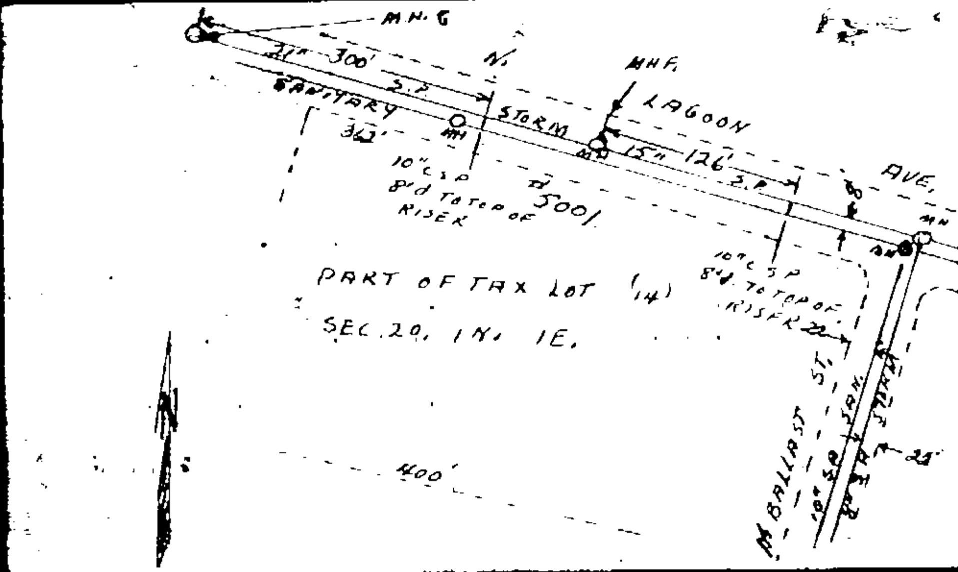
CITY OF PORTLAND, OREGON
DEPARTMENT OF PUBLIC WORKS
BUREAU OF MAINTENANCE
SEWER BRANCH

Pmt. No. 79196 -7
Date 3-7-63 19

Location 5001 N. Lagoon Ave.
Between
Addition Sec. 20, 1N., 1E. Lot Pt.T.L.'14' Blk. - -
Applicant Temp-Control Corp. Remarks 10" C.S.P. to riser. 126' east of MH in front of property. 8' at riser 6' deep at propline.

79197: 10" CSP to riser 300' east of MH to the west of property. 8' deep at riser 6' at property line.

Inspected 3-7-63 19 By P.Grossi
Book 11 Page 21 New Repair


M.H. G
21" 300'
S.P.
N.
SANITARY
STORM
M.H F.
LAGOON
15" 126'
S.P.
AVE.
10" C.S.P.
8'd TO TOP OF RISER
500'
10" C.S.P.
8'd. TO TOP OF RISER
PART OF TAX LOT (14)
SEC. 20, 1N. 1E.
400'
BALLAST ST.
SAN.
STORM

2526

FORM W 271-1
(7-68)

CITY OF PORTLAND, OREGON
DEPARTMENT OF PUBLIC WORKS
BUREAU OF MAINTENANCE
SEWER BRANCH

Pmt. No. 86598

Date Dec. 4, 1968

Location 5001 N. Lagoon Ave.

Between N. Channel Ave.

Addition TL 72 and 93 Sec. 20, 1N1E Lot Blk.

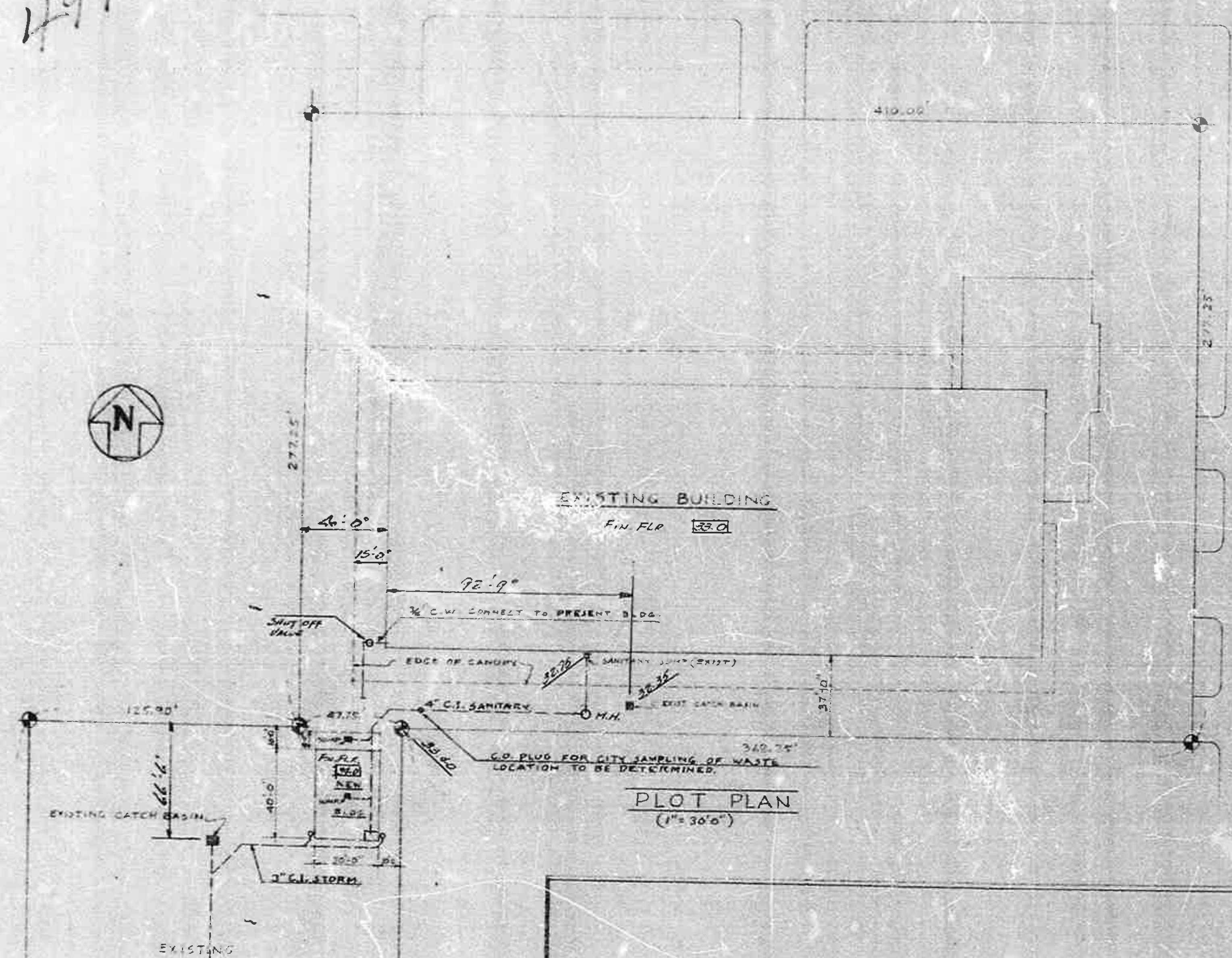
Applicant Donohue & Fleskes Corp. Remarks

8" CSP to maint. Tap 344' southeast of MH to the northwest. 13' deep at curb. Storm only.

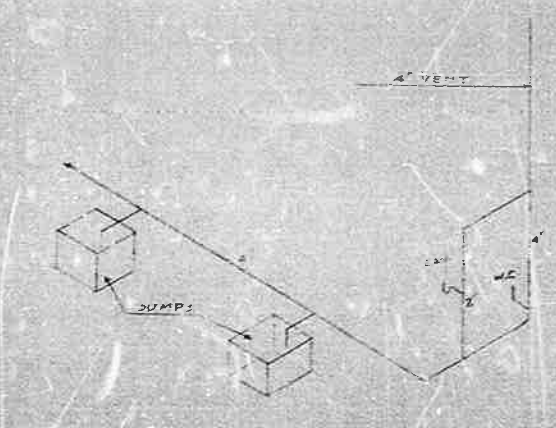
Inspected 12-13-68 19 By Grossi

Book 11 Page 4 New ✓ Repair

497



PLOT PLAN
(1" = 30'-0")



ISOMETRIC OF SANITARY
(NO SCALE)

GENERAL NOTES

LOADS & WORKING STRESSES:—

ROOF LIVE LOAD	— 25 PSF
WIND LOAD	— 20 PSF
SOIL BEARING	— 1500 PSF
CONCRETE (f_c)	— 2500 PSI
STEEL REINF. (f_s)	— 20000 PSI
STEEL FRAMING (f_y)	— 50000 PSI
STEEL SHEETING (f_y)	— 33000 PSI
WOOD BEAMS & POSTS	— 1450 f NO. 1
DECKING, STUDS & PLATES	— 1100 f NO. 2
HANDRAIL & POSTS	— 1450 f NO. 1

STEEL BUILDING TO BE AS MANUFACTURED BY CUSTOM ROLLED CORRUGATED METALS COMPANY.

ERECTION DETAILS AND STRESS ANALYSIS OF STEEL BUILDING TO BE FURNISHED BY MFR.

ALL WOOD PLATES IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED WITH AN APPROVED PRESERVATIVE.

WOOD PLATES TO BE SECURED TO CONCRETE WITH 5/8" MACHINE BOLTS USING 2 BOLTS PER PIECE.

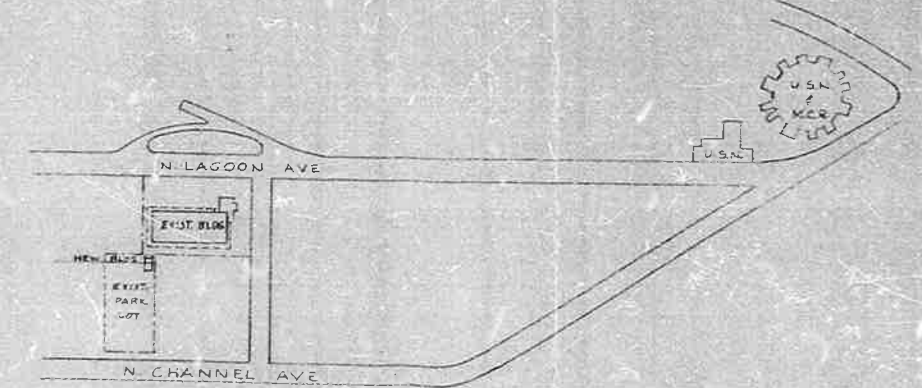
WOOD POSTS RESTING ON CONCRETE TO BE SEPARATED THEREFROM BY SHEET METAL OR ASPHALT ROOFING FELT AND HELD IN PLACE BY 5/8" x 6" STEEL PINS EXTENDING 3" INTO POST.

TOILET ROOM WALLS TO BE INSULATED WITH 2" THICK FIBERGLAS BLANKET INSULATION.

No increase in employees.

F-1 occupancy – Truck service building

*No painting, Motor Repair, or ... *



VICINITY MAP
(NO SCALE)

ACCEPTABLE
THIS PLAN HAS BEEN REVIEWED AND MEETS THE REQUIREMENTS OF THE PORT OF PORTLAND
EXCEPTIONS ARE NOTED
BY ... 2/23/73

TRUCK SERVICE BUILDING FOR CANTEEN COMPANY OF OREGON SWAN ISLAND - PORTLAND, OREGON			
LESLIE E. POOLE - CONSULTING ENGINEER 4606 S.W. 53RD AVENUE - PORTLAND, OREGON			
JOB NO.	DATE: 1-26-73	DRAWN BY: P	SHEET NO. 1

ATTACHMENT B

Tuesday, January 26, 2021

Plant Receiving Manifest

Profile #: 455304

Manifest ID 128834

Generator Name: BCS America

Address: 5001 N Lagoon
Portland, OR, 97217

Wash out?: Yes

Same as Transporter? Yes

Billing Firm: Stratus Corporation

Waste Description (choose one): Oil/Water

Unit: Pounds

Initial Weight (lbs): 51620

Final Weight (lbs): 42440

Solids?: No

Total Weight (lbs): 9180

Color: Black

Odor None

pH: 7

Liquid Phase: 90

Sludge/Solids: 10

Total Gallons: 991.84

Total Solids (Tons): 0.46

Method of Shipment: Vac Truck

Weight Ticket: pdf Manifest_2021012...

Does This Manifest Need a Change Order?: No

Relinquished By (Driver Signiture):

Driver Name: Dennis

Truck License #: 62

PPV Technician: Michael Douglas Shockley

PPV Acceptance: Approved

Date Tuesday, January 26, 2021

Time 7:08 AM