

CONSTRUCTION FIELD PACKAGE (FORM 1)

SECTION 1: PROJECT INFORMATION AND SCOPE

Project ID: Concourse C Vertical Circulation Site: Concourse C
Location ID: _____ Location: Gates C2, C10/12 & C14 (see Figures 1 - 4)
Project Start Date: 05.16.14 Project End Date: 07.31.15
Report Preparer: Greg Ferris Date: 07.31.15

Project Scope and Discussion:

The purpose of the project was to install new walkways, ramps and elevators (including subsurface infrastructure) to upgrade passenger conveyance routes to and from airplanes at Gates C2, C10/12 and C14 at STIA.

SECTION 2: PROJECT ACTIVITIES

Does the project include the following activities?

[NOTE: Fill out as many forms as needed and attach. For example fill out 2 Form 2's for 2 USTs.]

			# of forms included		
UST Removal		YES (see Form 2)		X	NO
Pipeline Removal	X	YES (see Form 2)	1	X	NO
Other Removal		YES (see Form 2)		X	NO
Excavation	X	YES (see Form 3)	3		NO
Sampling	X	YES (see Form 4)	1		NO
Soil Disposal or Treatment	X	YES (see Form 5)	1		NO
Product Disposal or Treatment		YES (see Form 5)		X	NO
Water Disposal or Treatment		YES (see Form 5)		X	NO
Other Disposal		YES (see Form 5)		X	NO
Unanticipated Conditions/Summary	X	YES (see Form 6)	1		NO

SECTION 3: ATTACHMENTS

- A Figures
 - 1 - 4 - Site Location and Specific Concourse C Work Area Maps
- B Tables
 - 1 - Laboratory Detection Limits
- C Sample Chain-of-Custodies
- D Laboratory Analytical Reports
- E Permits (as applicable)
- F Disposal Records
- G Field Work Plan or Field SOP
- H Truck Log with PID
- I Photos
- J Weekly EA Reports (On Attached CD)

CONSTRUCTION FIELD PACKAGE (FORM 2.01 - Cargo 2)

OTHER REMOVAL AND/OR ABANDONMENT

How many USTs? 0 (Fill out ONE Form 2 for each UST - identify on Figure XX)
 How many pipelines? 2 (Fill out ONE Form 2 for each pipeline - identify on Figure 2)

UST/Pipeline ID Abandoned 12" and 6" fuel lines at Gate C2
 Size of UST NA
 Age of UST NA
 Tank Usage NA
 Tank Construction NA
 UST Contents NA
 Product in Tank NA YES NO
 Volume of Product NA
 Is Tank in Good Condition? NA YES NO
 Describe: NA

Removed X (Yes) Oct. 30-Dec. 12, 2014 DATE NO
 Abandoned in Place YES DATE X NO
 Describe: ~18' of abandoned 12" fuel line and ~10' of abandoned 6' fuel line
 Contractor: Three Kings
 Pipeline Usage: Former fuel lines
 Pipeline Construction: Black iron pipe
 Pipeline Diameter: 12" and 6"
 Product in Pipeline X YES, but mostly water
 Is Pipeline in Good Condition? X YES NO
 Describe: The abandoned fuel lines appeared intact and the contents (fuel and water mix) was removed prior to capping each line where it was cut.

Contaminated Soil Observed X YES NO
 Contaminated Groundwater Observed YES X NO
 Contamination Left In Place X YES 0.6ppm PID LEVELS NO
 Comments:

From October 30 to December 12, 2014, Three Kings removed ~18' of abandoned 12" fuel line and ~10' of abandoned 6" fuel line at Gate C2 during the course of the project. During excavation work to uncover the fuel lines, petroleum impacted soil was only encountered around the eastern-most fuel lines at Gate C2 (slight glycol and fuel odor, PID = 0.6 ppm). The Type B material removed from this location was hauled to the stockpile facility for eventual disposal at Allied Waste. The soil encountered in the other two fuel line cut and cap locations, was clean 'Type D' material (brown silty sand with gravel, no staining, no odors, PID=0ppm).

CONSTRUCTION FIELD PACKAGE (FORM 3.01 - Gate C2)

EXCAVATION INFORMATION AND OBSERVATION

NOTE: Fill out an excavation form (Form 3) for different types of excavations or when excavation conditions change.

Excavation Location: Gate C2 (identify location on Figure 1)

Excavation ID: Utilities, Elevator & Footings Excavation Type: Trench & Grading

Excavation Coordinates: X Coord _____ Y Coord _____

Excavation: Depth = Various Width = Various Length = Various

Excavation Method: Hydraulic Excavator

Excavation Company: Illiad

Construction Recorder: R. Petrilli, C. Marciniak, G. Ferris

Excavation Start Date: 05.16.14 End Date: 06.05.15

Diagram of Excavation (see Figure 2)

Is there evidence of soil contamination in excavation? X YES NO

Describe contamination (if present): Petroleum and glycol odors in soil - 5 locations at Gate C2

Volume of Soil Excavated: ~265 cubic yards (or ~400 tons)

Were samples collected? X YES (see Form 4) NO

Was free product present? YES X NO

Volume of Product Recovered: N/A

Did excavation contact groundwater? YES X NO

Comments:

Between May 16, 2014 and June 5, 2015, Illiad/Forma excavated multiple areas to install utilities, an elevator, and footings during construction at Gate C2, including: IWS, electrical/communication, water line/fire hydrant, FDC vault, elevator shaft, stem-wall footings, grade beam trenches and protective bollards. The majority of soil encountered was brown silty sand with gravel, no staining, no odors, PID=0.0ppm (Type D 'clean' material). The clean soil removed from Gate C2 was hauled to Cedar Shores and/or other various clean soil disposal locations. However, petroleum and glycol impacted soil was encountered in five different locations at Gate C2: 1) the IWS re-route trench in the west portion of the site; 2) in the FDC vault in the SE portion of the site; 3) around the north and west perimeter of the elevator shaft in the southeastern portion of the site; 4) in stem-wall footings near the southern edge of the site; and 5) in three grade beam trenches across the site. Petroleum impacted soil remains in place below the location where abandoned 12" and 6" fuel lines were removed (PID = 0.6 ppm). ~400 tons of impacted soil from the installation of utilities, elevator, stem-wall footings and grade beam trenches at Gate C2 was hauled to Allied Waste for disposal. One hydraulic fluid release (05/14/15) occurred at Gate C2 during the course of the project. Attachment J contains the weekly EA report that provides the spill report documenting the spill details and cleanup actions taken.

Backfill Start Date: Unknown End Date: Unknown

Backfill Material: Clean structural fill

Backfill Source: Unknown

CONSTRUCTION FIELD PACKAGE (FORM 3.03 - Gate C14)

EXCAVATION INFORMATION AND OBSERVATION

NOTE: Fill out an excavation form (Form 3) for different types of excavations or when excavation conditions change.

Excavation Location: Gate C14 (identify location on Figure 1)

Excavation ID: Utilities, Elevators and Footings Excavation Type: Trench & Grading

Excavation Coordinates: X Coord _____ Y Coord _____

Excavation: Depth = Various Width = Various Length = Various

Excavation Method: Hydraulic Excavator

Excavation Company: Illiad

Construction Recorder: R. Petrilli, C. Marciniak, G. Ferris

Excavation Start Date: 05.20.14 End Date: 03.10.15

Diagram of Excavation (see Figure 4)

Is there evidence of soil contamination in excavation? X YES NO

Describe contamination (if present): Glycol and petroleum odors in soil - 3 locations at Gate C14

Volume of Soil Excavated: ~60 cubic yards (or ~90 tons)

Were samples collected? X YES (see Form 4) NO

Was free product present? YES X NO

Volume of Product Recovered: N/A

Did excavation contact groundwater? YES X NO

Comments:
Between May 20, 2014 and June 25, 2015, Illiad/Forma excavated multiple areas to install utilities, an elevator, and footings during construction at Gate C14, including: IWS catch basin, water line/fire hydrant, elevator shaft, stem-wall footings, grade beam trenches, and protective bollards. The majority of soil encountered was brown silty sand with gravel, no staining, no odors, PID=0.0ppm (Type D 'clean' material). The clean soil removed from Gate C14 was hauled to Cedar Shores and/or other various clean soil disposal locations. However, glycol and petroleum impacted soil was encountered in four different locations at Gate C14: 1) the grading excavation in the western portion of the site; 2) the water line trench in the eastern portion of the site; 3) in the grade beam trenches across the site; and 4) in the protective bollards in the northern portion of the site. ~90 tons of impacted soil from the installation of utilities, footings and grade beam trenches at Gate C14 was hauled to Allied Waste for disposal. Two hydraulic fluid releases (05/27/14 and 03-10-15) and one diesel fuel release (08/25/14) occurred at Gate C14 during the course of the project. Attachment J contains the weekly EA reports that provides the spill reports documenting the spill details and cleanup actions taken.

Backfill Start Date: Unknown End Date: Unknown

Backfill Material: Clean structural fill

Backfill Source: Unknown

CONSTRUCTION FIELD PACKAGE (FORM 4)

SAMPLE COLLECTION INFORMATION

Samplers: R. Petrilli

Sample ID	Laboratory Reference		Type of Sample				Rover File			Analytical Results (mg/kg)										
		Date		C/G	Location	Depth			Number	Location	PID (ppm)	NWTPH-Dx		NWTPH-G	Metals					
							Jet-A	Lube Oil				Gas	As	Ba	Cd	Cr	Pb	Hg	Se	Ag
C2-51414-PS-01	05-127-01	5/14/2014	Profile	G	See Fig. 2	2 ft	R070709A	GS #1	4	2,100	ND	ND	ND	NA	ND	42	ND	ND	NA	NA
C14-052214-PS-01	05-196-01	5/22/2014	Profile	G	See Fig. 4	2 ft	R052810A	GS #1	235	35	ND	ND	ND	NA	ND	44	ND	ND	NA	NA
C10/12-070914-PS-01	07-082-01	7/9/2014	Profile	C	See Fig. 3	NA	NA	NA	4	ND	ND	ND	ND	49	ND	20	ND	ND	ND	ND

Sample ID	Laboratory Reference	Analytical Results (mg/kg)							Comments/Description	Location
		NWTPH-G BTEX					PCB's	Semi-Volatiles		
		Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene	Aroclor 1016-1260	8270		
C2-51414-PS-01	05-127-01	ND	ND	ND	ND	ND	ND	NA	Brown to gray, silty sand with gravel, fuel and glycol odor, gray staining	Eastern portion of Gate C2 work area
C14-052214-PS-01	05-196-01	ND	ND	ND	ND	ND	ND	NA	Gray silty sand w/ gravel, fuel odor, gray staining	Northern portion of Gate C14 work area
C10/12-070914-PS-01	07-082-01	ND	ND	ND	ND	ND	ND	Minor concentrations detected - See lab report in Attachment D	Brown silty sand with gravel, slight fuel odor, no staining	Northern portion of Gate C10/12 work area

NOTES:

Sample type = pre-construction, construction, confirmation, profile, stockpile.

C = composite

G = grab

Sample method = hand augur, trowel, shovel, other

Staining, sheen, or odor should be noted under comments

NA = Not Analyzed or Not Applicable

ND = Not Detected

CONSTRUCTION FIELD PACKAGE (FORM 5)

DISPOSAL, TREATMENT AND TRANSPORTATION

NOTE: Fill out this form for disposal or treatment of any material including soil, product, water, debris, pipes, tanks.

Disposal or treatment options (whether on-site or off-site) should be noted.

Supporting analytical results and disposal/treatment records should be attached as appendices.

Truck logs can be referenced as appropriate.

Material	Source Location of Material	Tons	Nature of Material (reference samples)	Disposal or Treatment Option	Disposal or Treatment Location	Date
Type A/B Soil	See Figures 2, 3 & 4	691.51	See Form 4	Landfill	Allied Waste	07/25/14 - 04/03/15
Type D Soil	See Figures 2, 3 & 4	Unknown	See Form 4	Re-Use/Backfill	Cedar Shores and Other Locations	05/12/14 - 07/31/15

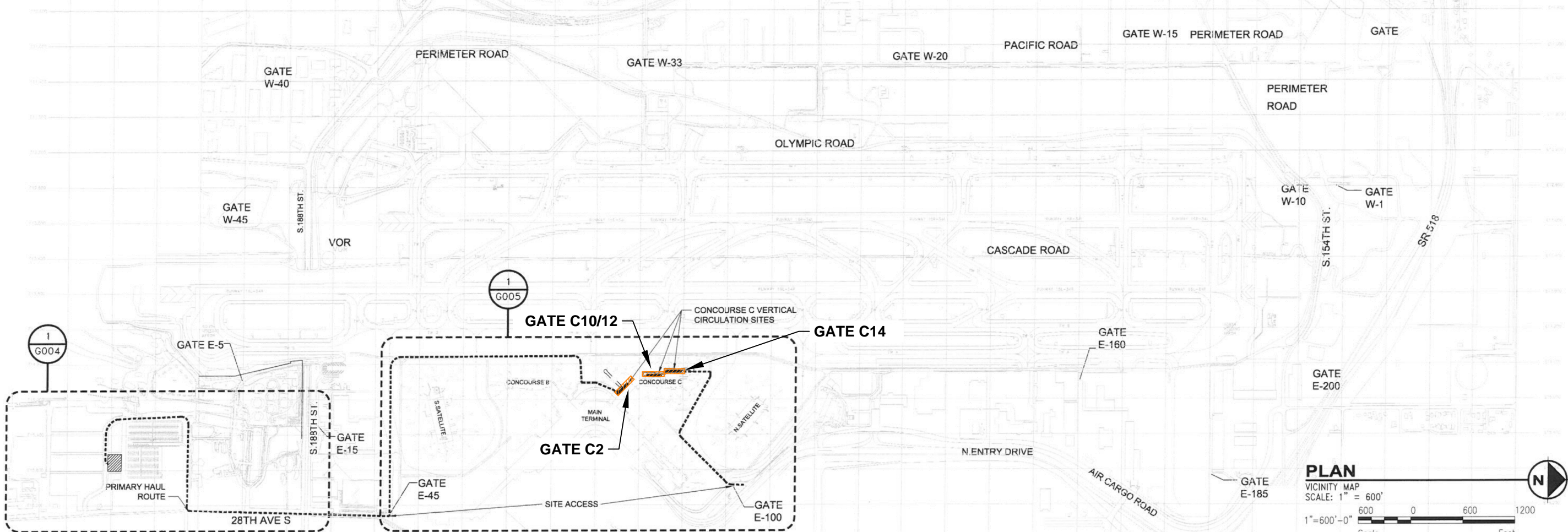
CONSTRUCTION FIELD REPORT (FORM 6)

UNANTICIPATED CONDITIONS/SUMMARY

NOTE: Use this form (Form 6) to describe any unanticipated conditions and as needed to document field conditions.

The purpose of the project was to install new walkways, ramps and elevators to upgrade passenger conveyance routes to and from airplanes at Gates C2, C10/12 and C14 at STIA. ~400 tons of impacted soil from excavation work at Gate C2, ~200 tons of impacted soil generated at Gate C10/12, and ~90 tons of impacted soil generated at Gate C14 was hauled to Allied Waste for disposal (691.51 total tons). Attachment H provides a Truck Log summarizing the amount of impacted soil hauled from the project site for disposal. An unknown amount of clean soil left the project site and was hauled to Cedar Shores or other clean soil disposal locations. Clean soil leaving the site was not tracked by the EA monitoring excavation activities. A total of seven spills occurred during the project at Gates C2, C10/12 and C14, involving hydraulic fluid (4) and diesel fuel (3). The details regarding the spills and the cleanup actions taken are provided in the weekly reports included in Attachment J.

ATTACHMENT A
FIGURES



- SAFETY NOTES:**
1. IN ADDITION TO THE FOLLOWING REQUIREMENTS, ALSO REFER TO SPECIFICATION SECTION 01140 - OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION; SECTION 01567 - AIRPORT PERSONNEL IDENTIFICATION/ACCESS CONTROL; FOR SECURITY REQUIREMENTS; SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS. WHERE CONFLICTS OCCUR BETWEEN THE REQUIREMENTS ON THE SAFETY AND PHASING PLANS AND THOSE INDICATED IN THE SPECIFICATIONS, THE MORE STRINGENT SHALL GOVERN.
 2. FAA ADVISORY CIRCULAR 150/5370-2C OR MOST CURRENT VERSION, OPERATION SAFETY ON AIRPORTS DURING CONSTRUCTION IS INCORPORATED INTO THE ABOVE SPECIFICATIONS. THIS ADVISORY CIRCULAR IS SUPPLEMENTED BY ORDER NM5200.3, PUBLISHED BY THE FAA NORTHWEST MOUNTAIN REGION.
 3. THE CONTRACTOR SHALL ALSO BE FAMILIAR WITH AND COMPLY WITH FAA ADVISORY CIRCULAR 70/7460-1J, "OBSTRUCTION MARKING AND LIGHTING", FAA ADVISORY CIRCULAR 150/5210-5B APPENDIX 1, "PAINTING, MARKING, LIGHTING OF VEHICLES USED ON AIRFIELD", 14CFR PART 77, "OBJECTS AFFECTING NAVIGABLE AIRSPACE" AND PART 139 "CERTIFICATION AND OPERATIONS: LAND AIRPORT SERVING CAB-CERTIFIED SCHEDULED AIR CARRIERS OPERATING LARGE AIRCRAFT" (OR MOST CURRENT VERSIONS).
 4. PORTIONS OF THE CONSTRUCTION WORK IN THIS PROJECT WILL OCCUR WITHIN THE AIR OPERATIONS AREA (AOA) AND IS SUBJECT TO THE OPERATIONAL SAFETY, AND SECURITY REQUIREMENTS OF THE ABOVE REFERENCES AND ANY ADDITIONAL REQUIREMENTS AS DEEMED NECESSARY BY THE PORT OF SEATTLE.
 5. EACH CONTRACTOR, INCLUDING EACH CONTRACTOR/SUBCONTRACTOR EMPLOYEE, WHO OPERATES A GROUND VEHICLE ON ANY PORTION OF THE AIR OPERATIONS AREA AT SEA-TAC MUST BE FAMILIAR WITH AND COMPLY WITH:
 - A. SEATTLE-TACOMA INTERNATIONAL AIRPORT SCHEDULE OF RULES AND REGULATIONS NO. 4.
 - B. SEA-TAC'S PROCEDURES FOR THE OPERATION OF GROUND VEHICLES
 - C. THE CONSEQUENCES OF NON-COMPLIANCE WITH SEA-TAC'S RULES AND REGULATIONS AND/OR PROCEDURES FOR THE OPERATION OF GROUND VEHICLES
 6. VEHICLES DELIVERING MATERIALS TO OR HAULING MATERIAL FROM THE WORK SITES SHALL USE THE GATES LISTED BELOW:

ENTRANCE TO AOA	GATE E-45 & E-100
EXIT FROM AOA	GATE E-45 & E-100
 7. THE ROADS DESIGNATED AS CONTRACTOR ROUTES WILL BE USED BY OTHER AIRPORT VEHICLES, CONTRACTORS AND THE GENERAL PUBLIC (ALONG PUBLIC ROADS). THE CONTRACTOR SHALL NOT INTERFERE WITH OTHER VEHICULAR TRAFFIC AND SHALL YIELD TO EMERGENCY VEHICLES ALONG ANY OF THE AIRPORT OR PUBLIC ROADS. THE CONTRACTOR SHALL PROVIDE ALL FLAGGING, SIGNING, LIGHTING, ETC. REQUIRED BY THE CITY OF SEATAC, KING COUNTY, THE STATE OR THE PORT OF SEATTLE TO PROVIDE ALL REASONABLE SAFETY MEASURES TO PROTECT ALL PERSONS UTILIZING THE HAUL ROADS AND ALL PUBLIC ROADS USED BY THE CONTRACTOR. THE CONTRACTOR SHALL OBEY ALL VEHICULAR WEIGHT AND SPEED LIMITS ESTABLISHED IN SPECIFICATION SECTION 01140 OR AS POSTED ON THE PORT PROPERTY OR PUBLIC STREETS. THE CONTRACTOR SHALL CONTINUOUSLY SWEEP ALL ACCESS ROUTES TO THE CONSTRUCTION AREAS AND EXISTING ADJACENT PAVED AREAS AND AOA PAVEMENTS. THESE AREAS SHALL BE KEPT FREE OF DEBRIS AT ALL TIMES.

ANY DAMAGE ALONG THE CONTRACTOR ACCESS/HAUL ROUTES DUE TO THE CONTRACTOR'S USE SHALL BE REPAIRED IMMEDIATELY. AT THE COMPLETION OF THE PROJECT, ALL PAVEMENTS AND SURFACES ALONG THE ACCESS ROUTES THAT WERE EXISTING AT THE START OF THE PROJECT SHALL BE RESTORED TO THE ORIGINAL CONDITIONS. THE CONTRACTOR SHALL COORDINATE AND MEET THE CLEANING AND REPAIR REQUIREMENTS SET BY OTHER PUBLIC AGENCIES FOR USE OF THEIR ROADS FOR CONSTRUCTION RELATED WORK.

THE CONTRACTOR SHALL ALSO REFER TO SPECIFICATION SECTION 01552 "HAUL ROUTES" FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH HAULING OF MATERIALS TO THE PROJECT SITES.
 8. CONTRACTOR EMPLOYEES' PERSONAL VEHICLES AND FOOD VENDORS WILL NOT BE PERMITTED WITHIN THE AIR OPERATIONS AREA.
 9. THE CONTRACTOR SHALL KEEP A VACUUM-SWEEPER TRUCK AND WATER TRUCK ON SITE AT ALL TIMES DURING WORKING AND NON-WORKING HOURS AND SHALL MAINTAIN THE SITES FREE FROM DUST AND OBJECTIONABLE DEBRIS. DURING THE PERIODS OF TIME THAT THERE IS NO CONSTRUCTION ACTIVITY (BETWEEN WORK SHIFTS), THE VACUUM-SWEEPER TRUCK AND WATER TRUCK MUST BE READY AND ON-SITE WITH CONTRACTOR'S PERSONNEL AVAILABLE BY PHONE TO RESPOND IMMEDIATELY TO A DUST OR DEBRIS PROBLEM AS IDENTIFIED BY AIRPORT OPERATIONS STAFF OR THE ENGINEER.

AT NO TIME SHALL THERE BE MORE THAN A 10 MINUTE RESPONSE TIME TO CALLS CONCERNING DUST/DEBRIS PROBLEMS DURING WORK HOURS AND A 90 MINUTE RESPONSE TIME AT ALL OTHER TIMES ON A 24-HOUR BASIS. THE CONTRACTOR SHALL PROVIDE WHATEVER MEANS ARE NECESSARY TO PREVENT FOREIGN OBJECT DEBRIS (FOD) IN AIRCRAFT MOVEMENT AREAS AND PROVIDE CONSTRUCTION AREA GENERATED DUST CONTROL ON A 24 HOUR BASIS.

TRUCKS AND EQUIPMENT SHALL HAVE ALL LOOSE DIRT, ROCKS AND OTHER MATERIALS REMOVED WHEN ACCESSING THE AOA OR WHEN LEAVING A WORK AREA. THE CONTRACTOR SHALL PROVIDE TRUCK WASHES, RUMBLE STRIPS, SHAKERS OR WHATEVER MEANS ARE NECESSARY TO PREVENT FOD IN AIRCRAFT MOVEMENT AREAS. THIS WILL BE CONTINUOUSLY MONITORED BY THE PORT AND IF THE CONTRACTOR'S METHOD IS NOT REMOVING THE DEBRIS ADEQUATELY TO MEET SAFETY REQUIREMENTS, THE CONTRACTOR WILL BE REQUIRED TO IMPROVE HIS/HER METHOD OR UTILIZE A NEW METHOD AT NO ADDITIONAL COST TO THE PORT.
 10. ALL VEHICLES AND EQUIPMENT SHALL BE KEPT WITHIN THE WORK AREAS ESTABLISHED FOR THAT WORKSHIFT UNLESS TRAVELING TO OR FROM THE SITE. UNDER NO CIRCUMSTANCES SHALL VEHICLES BE PARKED OR EQUIPMENT BE STORED OUTSIDE OF THESE AREAS.
 11. POWER AND CONTROL CABLES ARE LOCATED IN OR ADJACENT TO THE CONSTRUCTION AREAS. THE CONTRACTOR'S PERSONNEL SHALL BE FAMILIAR WITH THESE CABLE LOCATIONS AND KEEP VEHICLES AND EQUIPMENT CLEAR OF ANY CABLES AT ALL TIMES. THE CONTRACTOR SHALL LOCATE ALL UTILITIES (OPERATIONAL AND ABANDONED) PRIOR TO STARTING ANY EXCAVATION, DEMOLITION OR EARTHWORK.
 12. ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREAS OR THE STORAGE SITE(S) SHALL REMAIN ACTIVE, ACCESSIBLE, AND PROTECTED AT ALL TIMES (I.E. WATERLINES, FIRE HYDRANTS, VALVES, DRAINAGE STRUCTURES, ELECTRICAL AND FAA CABLES/EQUIPMENT). REFER TO THE SPECIFICATIONS, PHASING PLANS, EXISTING CONDITIONS/DEMOLITION PLANS, GRADING PLANS, UTILITY PLANS AND PAVING PLANS FOR ADDITIONAL REQUIREMENTS THAT ARE ASSOCIATED WITH THIS PROJECT.
 13. ALL CONSTRUCTION VEHICLES OR EQUIPMENT OPERATING WITHIN THE AOA SHALL BE EQUIPPED WITH YELLOW FLASHING BEACONS AND A STAFF MOUNTED 3' X 3' INTERNATIONAL ORANGE AND WHITE CHECKERED FLAG. CHECKERED PATTERN TO BE ONE FOOT SQUARE. THE BEACONS ON THE EQUIPMENT AND VEHICLES SHALL BE ON AND OPERATIONAL AT ALL TIMES WHILE ON THE AOA.
 14. LIGHTING PROVIDED FOR ANY NIGHT WORK SHALL NOT INTERFERE WITH AIR NAVIGATION. LIGHTS SHALL BE TRANSPORTED TO AND FROM THE WORK AREAS WITH THE LIGHTS POINTED DOWN OR OFF.
 15. **EQUIPMENT/MATERIAL STORAGE:** THE CONTRACTOR EQUIPMENT/STORAGE SITE IS LOCATED SOUTH OF THE AIRPORT, OUTSIDE OF THE AOA. CONTRACTORS COMPLETING OTHER WORK AT SEA-TAC WILL USE ADJACENT AREAS. THIS SITE IS FOR STORAGE OF MATERIALS AND EQUIPMENT. ANY OTHER USE OF THIS AREA (I.E. PROJECT OFFICE, EMPLOYEE PARKING) WILL BE UP TO THE CONTRACTOR'S DISCRETION, BUT NO ADDITIONAL SPACE WILL BE PROVIDED BY THE PORT OF SEATTLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING AND UTILITY CONNECTIONS REQUIRED TO OPERATE OUT OF THIS LOCATION.

ANY MATERIALS ALLOWED TO BE STORED/STOCKPILED WITHIN A WORK AREA AS OUTLINED ABOVE SHALL BE PROPERLY MARKED. SHALL NOT EXCEED 5 FEET IN HEIGHT AND SHALL BE PROTECTED/COVERED TO PREVENT FOD OR DUST. LOOSE MATERIALS OR OBJECTS THAT CAN BE BLOWN AROUND OR MOVED BY JET BLAST SHALL NOT BE STORED WITHIN THE WORK AREA. ANY EQUIPMENT ALLOWED TO BE STORED WITHIN A WORK AREA AS OUTLINED ABOVE SHALL NOT EXCEED 15' IN HEIGHT AND SHALL BE LEFT IN THE LOWEST POSSIBLE PROFILE POSITION WITH THE EXCEPTION THAT MOBILE CRANES SHALL COMPLY WITH THE TERM OF THE APPROVED FAA 7460.
 16. **EMPLOYEE PARKING:** PARKING OF EMPLOYEES' PRIVATE VEHICLES IS RESTRICTED TO PUBLIC PARKING AREAS, OR THE EQUIPMENT/STORAGE SITE AS DISCUSSED IN NOTE 15 ABOVE. NO EMPLOYEE PARKING WILL BE ALLOWED ON THE AOA. ANY CHANGE REQUESTS MUST BE MADE TO THE PORT'S ENGINEER.
 17. SEE THE CONSTRUCTION PHASING PLANS AND GENERAL REQUIREMENTS ON INDIVIDUAL PHASING SHEETS AND THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELATED TO SAFETY AND PHASING.
 18. SEE THE PROJECT SPECIFICATIONS AND SITE DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS RELATED TO PHASING, ACCESS, AND SAFETY.

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555



Work Location

Site Location Map

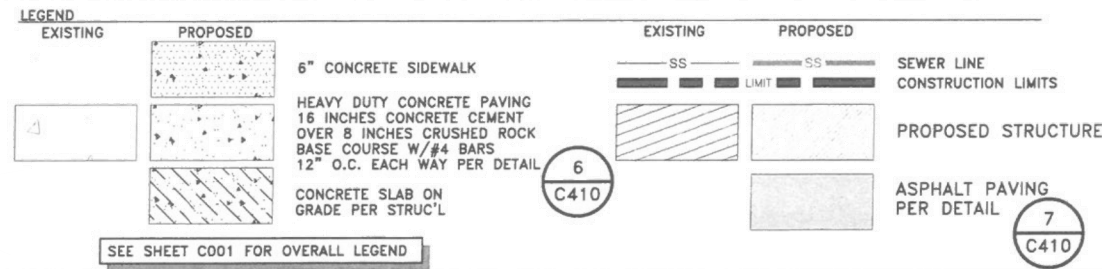
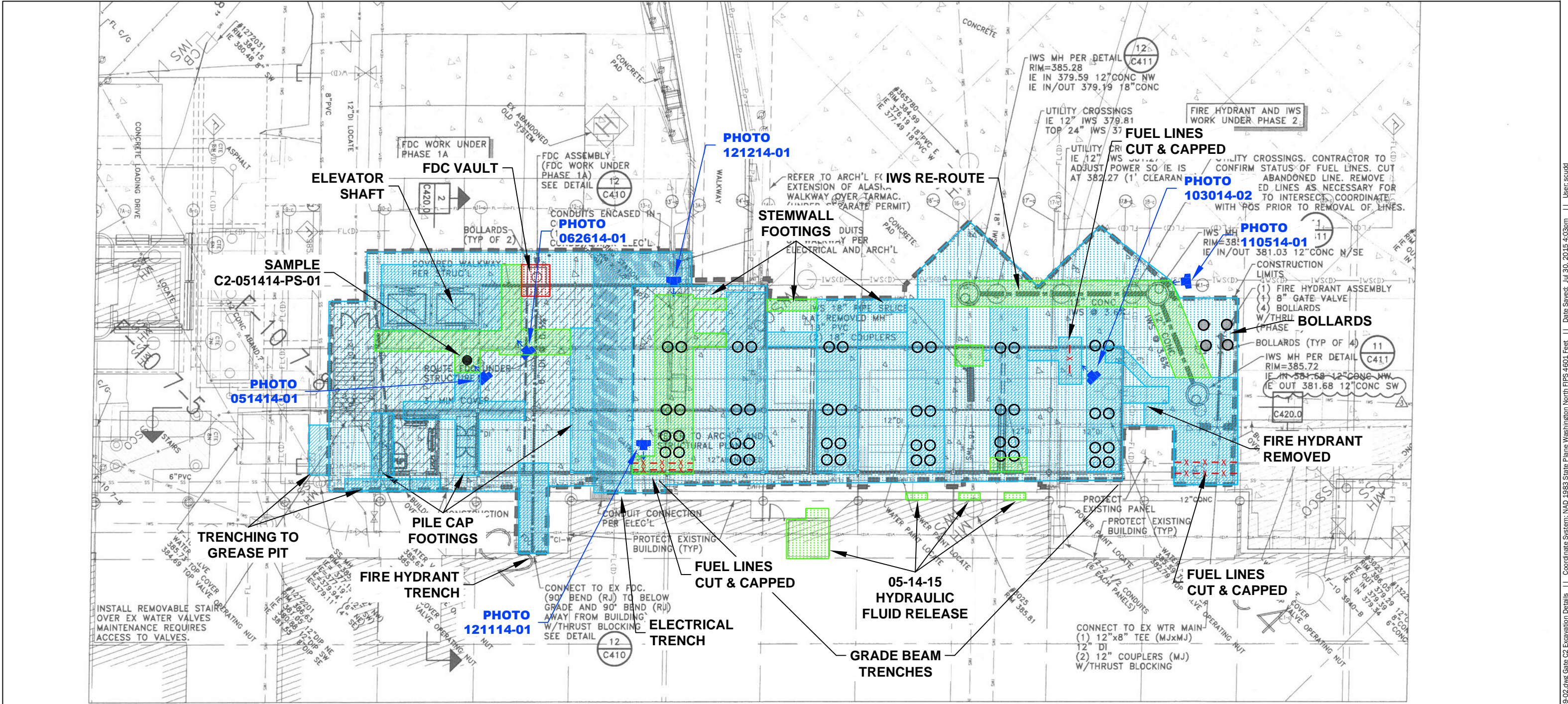
Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
Sea-Tac International Airport
SeaTac, Washington



MAR-2015
PROJECT NO.
120049

BY:
GAF/SCC
REV BY:
-

FIGURE NO.
1



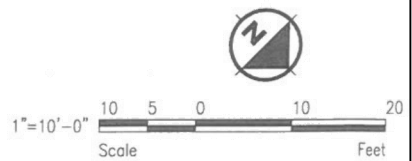
JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C2

SCALE: 1" = 10'-0"



Excavation

- | | | |
|-----------------------------------|---------------------------------|-------------------|
| Subgrade Excavation - Type A Soil | Trench Excavation - Type A Soil | Micropiles |
| Subgrade Excavation - Type B Soil | Trench Excavation - Type B Soil | Fuel Line Removed |
| Subgrade Excavation - Type D Soil | Trench Excavation - Type D Soil | |

PHOTO 082712-CC Photo Documentation

Gate C2 Excavation Details

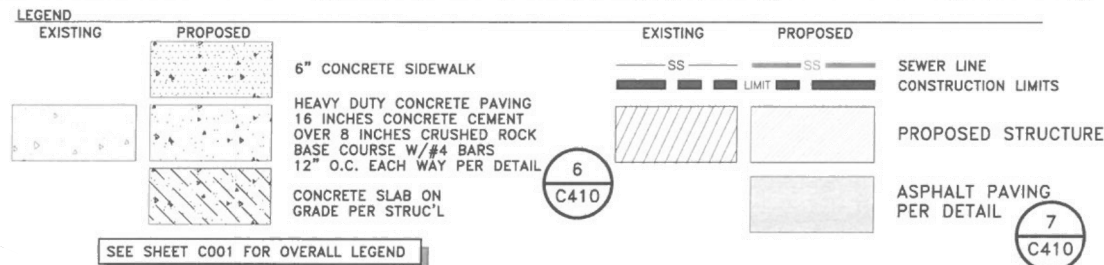
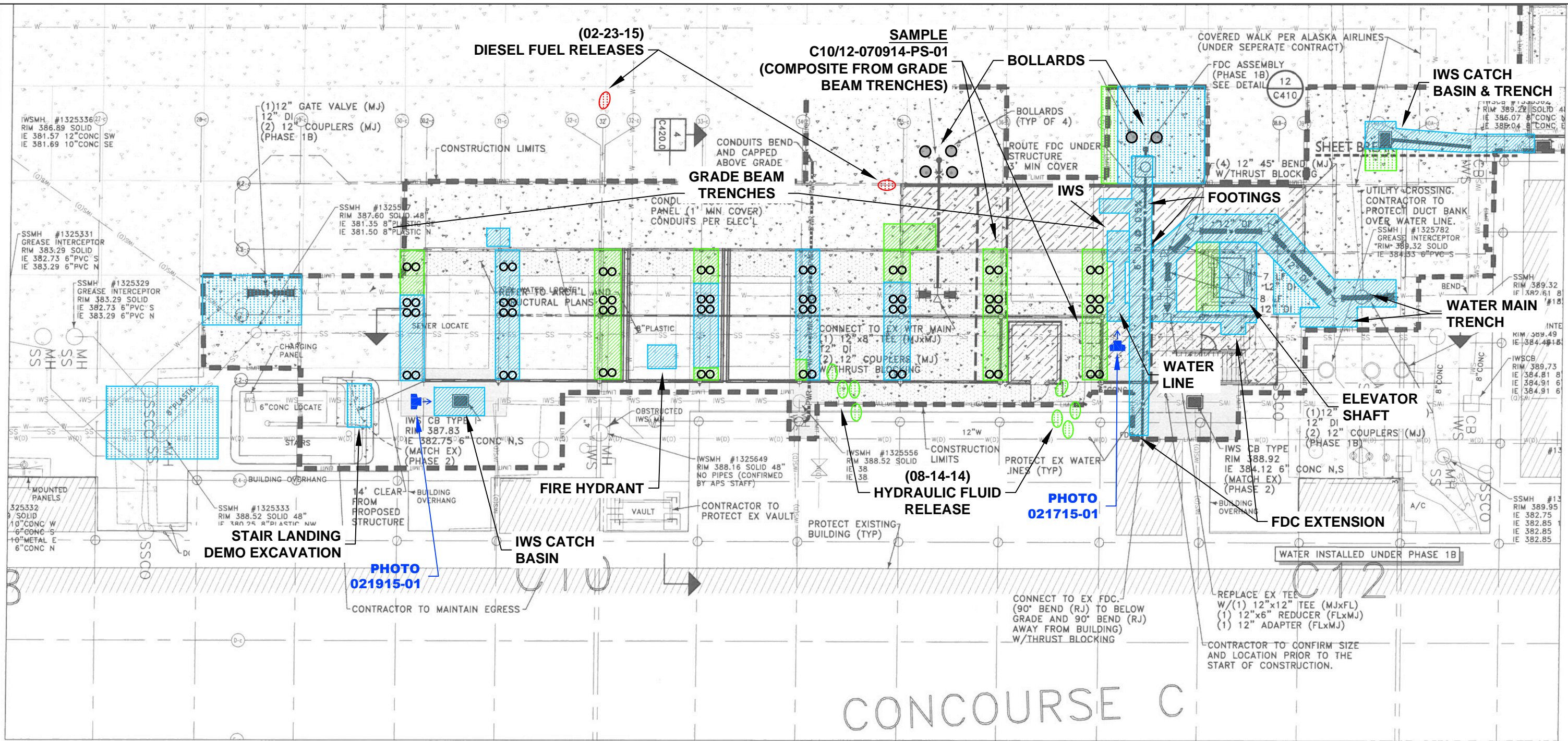
Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
Sea-Tac International Airport
SeaTac, Washington



JUL-2015
PROJECT NO.
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BY:
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REV BY:
SCC

FIGURE NO.
2

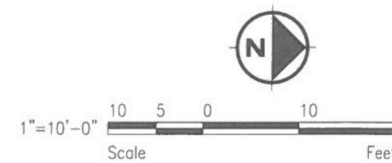


JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12
SCALE: 1" = 10'-0"



Excavation

- | | | |
|-----------------------------------|---------------------------------|------------|
| Subgrade Excavation - Type A Soil | Trench Excavation - Type A Soil | Micropiles |
| Subgrade Excavation - Type B Soil | Trench Excavation - Type B Soil | |
| Subgrade Excavation - Type D Soil | Trench Excavation - Type D Soil | |

PHOTO 082712-CC Photo Documentation

Gate C10/12 Excavation Details

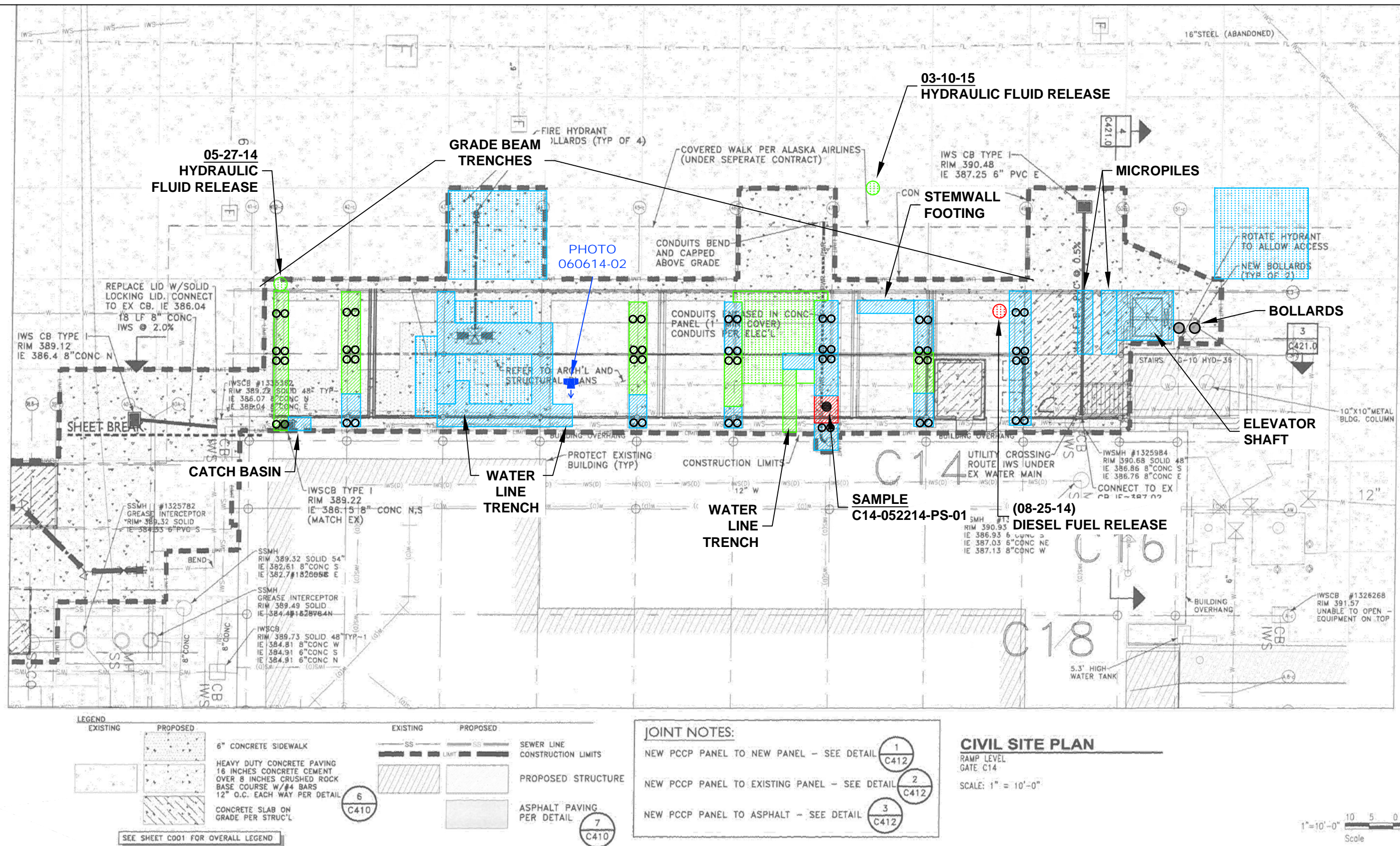
Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
Sea-Tac International Airport
SeaTac, Washington



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BY:
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SCC

FIGURE NO.
3



Excavation

	Subgrade Excavation - Type A Soil		Trench Excavation - Type A Soil
	Subgrade Excavation - Type B Soil		Trench Excavation - Type B Soil
	Subgrade Excavation - Type D Soil		Trench Excavation - Type D Soil

○ Micropiles

← PHOTO
082712-CC

Photo Documentation

Gate C14 Excavation Details

Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
Sea-Tac International Airport
SeaTac, Washington

Aspect
CONSULTING

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BY:
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REV BY:
SCC

FIGURE NO.
4

**ATTACHMENT B
TABLES**

Table 1. Laboratory Detection Limits

SAMPLE COLLECTION INFORMATION

Sample ID	Laboratory Reference		Type of Sample				Rover File			Reporting Limits (mg/kg)										
						PID			NWTPH-Dx		NWTPH-G	Metals								
		Date		C/G	Location	Depth	Number	Location	(ppm)	Jet-A	Lube Oil	Gas	As	Ba	Cd	Cr	Pb	Hg	Se	Ag
C2-51414-PS-01	05-127-01	5/14/2014	Profile	G	See Fig. 2	2 ft	R070709A	GS #1	4	27	640	7.7	11	NA	0.54	0.54	5.4	0.27	NA	NA
C14-052214-PS-01	05-196-01	5/22/2014	Profile	G	See Fig. 4	2 ft	R052810A	GS #1	235	27	54	3.4	11	NA	0.54	0.54	5.4	0.27	NA	NA
C10/12-070914-PS-01	07-082-01	7/9/2014	Profile	C	See Fig. 3	NA	NA	NA	4	27	53	4.2	11	2.7	0.53	0.53	5.3	0.27	11	1.1

Sample ID	Laboratory Reference	Reporting Limits (mg/kg)						
		NWTPH-G BTEX (or EPA 8260)					PCB's	Semi-Volatiles
		Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene	Aroclor 1016-1260	8270
C2-51414-PS-01	05-127-01	0.02	0.077	0.077	0.077	0.077	0.054	NA
C14-052214-PS-01	05-196-01	0.02	0.034	0.034	0.034	0.034	0.054	NA
C10/12-070914-PS-01	07-082-01	0.00052	0.00052	0.0026	0.00052	0.00052	0.053	0.0071

NOTES:

Sample type = pre-construction, construction, confirmation, profile, stockpile.

C = composite

G = grab

Sample method = hand augur, trowel, shovel, other

Staining, sheen, or odor should be noted under comments

NA = Not Analyzed or Not Applicable

ATTACHMENT C
SAMPLE CHAINS OF CUSTODY



Chain of Custody

Company: Port of Seattle		Project Number: 104784		Project Name: CONCOUSE C VERTICAL CIRCULATION		Project Manager: STACY FOX		Sampled by: R. PERRELLI		Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days) <input type="checkbox"/> (other) _____		Laboratory Number: 05/14/1355 SOIL 6		Number of Containers		Date Sampled: 05/14/1355		Time Sampled: SOIL		Matrix		Date		Time		Comments/Special Instructions		Chromatograms with final report <input type="checkbox"/>	
Lab ID		Sample Identification		Date		Time		Matrix		Date		Time		Matrix		Date		Time		Matrix		Date		Time		Comments/Special Instructions		Chromatograms with final report <input type="checkbox"/>	
C2-051414-PS-01																										Email results to: fox.s@portseattle.org Robbins.D@portseattle.org gterris@aspectconsulting.com PC UNIT: POS ACTIVITY: CONSTRUCT RES TYPE: EPT10 RES CAT: EPC11		PC UNIT: POS ACTIVITY: CONSTRUCT RES TYPE: EPT10 RES CAT: EPC11	
Relinquished		Signature: Cam Perry		Company: Aspect		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT	
Received		Signature: Stacy Fox		Company: Aspect		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT	
Relinquished		Signature: Stacy Fox		Company: Aspect		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT	
Received		Signature: Stacy Fox		Company: Aspect		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT	
Relinquished		Signature: Stacy Fox		Company: Aspect		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT	
Received		Signature: Stacy Fox		Company: Aspect		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT	
Reviewed/Date		Signature: Stacy Fox		Company: Aspect		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT		Date: 05/15/13		Time: 0630		Matrix: ASPECT	



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Electronic Data Deliverables (EDDs)

Electronic Data Deliverables (EDDs)



Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Page _____ of _____

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ATTACHMENT D
LABORTORY ANALYTICAL REPORTS



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

TRANSMITTAL MEMORANDUM

From: OnSite Environmental Inc.

To: Stacy Fox, Port of Seattle (Airport)

Date: May 19, 2014

Project Name: Concourse C Vertical Circulation; 104784

Reference: S-00317836

Laboratory Reference Number: 1405-127

Subject: Tier 3 Data Deliverables

Description: Results of NWTPH-Gx/BTEX, NWTPH-Dx, PCBs EPA 8082A, and Total Metals EPA 6010C/7471B.



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 19, 2014

Stacy Fox
Port of Seattle (Airport)
Airport Office Building
17801 Pacific Highway S., #A6012M
Seattle, WA 98158

Re: Analytical Data for Project Concourse C Vertical Circulation; 104784
Laboratory Reference No. 1405-127

Dear Stacy:

Enclosed are the analytical results and associated quality control data for samples submitted on May 15, 2014.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", followed by a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: May 19, 2014
Samples Submitted: May 15, 2014
Laboratory Reference: 1405-127
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

Case Narrative

Samples were collected on May 14, 2014 and received by the laboratory on May 15, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C. Please see Sample/Cooler Receipt form at the end of the report.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 19, 2014
Samples Submitted: May 15, 2014
Laboratory Reference: 1405-127
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
C2-051414-PS-01	05-127-01	Soil	5-14-14	5-15-14	

Date of Report: May 19, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-127
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	C2-051414-PS-01					
Laboratory ID:	05-127-01					
Benzene	ND	0.020	EPA 8021B	5-15-14	5-16-14	
Toluene	ND	0.077	EPA 8021B	5-15-14	5-16-14	
Ethyl Benzene	ND	0.077	EPA 8021B	5-15-14	5-16-14	
m,p-Xylene	ND	0.077	EPA 8021B	5-15-14	5-16-14	
o-Xylene	ND	0.077	EPA 8021B	5-15-14	5-16-14	
Gasoline	ND	7.7	NWTPH-Gx	5-15-14	5-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	71-121				

Date of Report: May 19, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-127
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	C2-051414-PS-01					
Laboratory ID:	05-127-01					
Diesel Range Organics	2100	27	NWTPH-Dx	5-15-14	5-15-14	
Lube Oil Range Organics	ND	640	NWTPH-Dx	5-15-14	5-15-14	U1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	92	50-150				

Date of Report: May 19, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-127
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

PCBs by EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	C2-051414-PS-01					
Laboratory ID:	05-127-01					
Aroclor 1016	ND	0.054	EPA 8082A	5-15-14	5-15-14	
Aroclor 1221	ND	0.054	EPA 8082A	5-15-14	5-15-14	
Aroclor 1232	ND	0.054	EPA 8082A	5-15-14	5-15-14	
Aroclor 1242	ND	0.054	EPA 8082A	5-15-14	5-15-14	
Aroclor 1248	ND	0.054	EPA 8082A	5-15-14	5-15-14	
Aroclor 1254	ND	0.054	EPA 8082A	5-15-14	5-15-14	
Aroclor 1260	ND	0.054	EPA 8082A	5-15-14	5-15-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	98	51-138				

Date of Report: May 19, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-127
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

TOTAL METALS
EPA 6010C/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	05-127-01					
Client ID:	C2-051414-PS-01					
Arsenic	ND	11	6010C	5-15-14	5-15-14	
Cadmium	ND	0.54	6010C	5-15-14	5-15-14	
Chromium	42	0.54	6010C	5-15-14	5-15-14	
Lead	ND	5.4	6010C	5-15-14	5-15-14	
Mercury	ND	0.27	7471B	5-15-14	5-15-14	

Date of Report: May 19, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-127
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

**NWTPH-Gx/BTEX
QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0515S1					
Benzene	ND	0.020	EPA 8021B	5-15-14	5-16-14	
Toluene	ND	0.050	EPA 8021B	5-15-14	5-16-14	
Ethyl Benzene	ND	0.050	EPA 8021B	5-15-14	5-16-14	
m,p-Xylene	ND	0.050	EPA 8021B	5-15-14	5-16-14	
o-Xylene	ND	0.050	EPA 8021B	5-15-14	5-16-14	
Gasoline	ND	5.0	NWTPH-Gx	5-15-14	5-16-14	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	92	71-121				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-127-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				98	90	71-121		

SPIKE BLANKS

Laboratory ID:	SB0515S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.977	1.01	1.00	1.00	98	101	73-121	3	10
Toluene	1.01	1.06	1.00	1.00	101	106	75-124	5	10
Ethyl Benzene	0.971	1.00	1.00	1.00	97	100	75-125	3	9
m,p-Xylene	0.973	1.01	1.00	1.00	97	101	75-126	4	9
o-Xylene	0.962	1.00	1.00	1.00	96	100	74-123	4	8
Surrogate:									
Fluorobenzene					92	95	71-121		

Date of Report: May 19, 2014
Samples Submitted: May 15, 2014
Laboratory Reference: 1405-127
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

**NWTPH-Gx
CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVH0516G-1	5.00	4.94	1	+/- 20%
CCVH0516G-2	5.00	4.49	10	+/- 20%

Date of Report: May 19, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-127
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

**BTEX
 EPA 8021B
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVH0516B-1	50.0	52.1	-4	+/- 15%
Toluene	CCVH0516B-1	50.0	55.1	-10	+/- 15%
Ethyl Benzene	CCVH0516B-1	50.0	52.2	-4	+/- 15%
m,p-Xylene	CCVH0516B-1	50.0	53.0	-6	+/- 15%
o-Xylene	CCVH0516B-1	50.0	52.1	-4	+/- 15%
Benzene	CCVH0516B-2	50.0	51.5	-3	+/- 15%
Toluene	CCVH0516B-2	50.0	53.4	-7	+/- 15%
Ethyl Benzene	CCVH0516B-2	50.0	51.0	-2	+/- 15%
m,p-Xylene	CCVH0516B-2	50.0	51.1	-2	+/- 15%
o-Xylene	CCVH0516B-2	50.0	50.8	-2	+/- 15%

Date of Report: May 19, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-127
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

**NWTPH-Dx
QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0515S1					
Diesel Range Organics	ND	25	NWTPH-Dx	5-15-14	5-15-14	
Lube Oil Range Organics	ND	50	NWTPH-Dx	5-15-14	5-15-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-113-03									
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						76	79	50-150		

Date of Report: May 19, 2014
Samples Submitted: May 15, 2014
Laboratory Reference: 1405-127
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

**NWTPH-Dx
CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0515R-V1	100	97.1	2.9	+/-15%
CCV0515R-V2	100	96.8	3.2	+/-15%

Date of Report: May 19, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-127
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

**PCBs by EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0515S2					
Aroclor 1016	ND	0.050	EPA 8082A	5-15-14	5-15-14	
Aroclor 1221	ND	0.050	EPA 8082A	5-15-14	5-15-14	
Aroclor 1232	ND	0.050	EPA 8082A	5-15-14	5-15-14	
Aroclor 1242	ND	0.050	EPA 8082A	5-15-14	5-15-14	
Aroclor 1248	ND	0.050	EPA 8082A	5-15-14	5-15-14	
Aroclor 1254	ND	0.050	EPA 8082A	5-15-14	5-15-14	
Aroclor 1260	ND	0.050	EPA 8082A	5-15-14	5-15-14	
Surrogate:	Percent Recovery	Control Limits				
DCB	109	51-138				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	05-127-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.569	0.549	0.500	0.500	ND	114	110	49-136	4	14	
Surrogate:											
DCB						106	103	51-138			

Date of Report: May 19, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-127
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

PCB's by EPA 8082A
CONTINUING CALIBRATION SUMMARY

Lab ID	Analyte	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Column 1					
PCBCCV 0515-1	Aroclor 1016	500	532	-6.4	+/- 15%
PCBCCV 0515-1	Aroclor 1260	500	491	1.8	+/- 15%
Column 2					
PCBCCV 0515-1	Aroclor 1016	500	537	-7.4	+/- 15%
PCBCCV 0515-1	Aroclor 1260	500	510	-2.0	+/- 15%
Column 1					
PCBCCV 0515-2	Aroclor 1016	500	523	-4.6	+/- 15%
PCBCCV 0515-2	Aroclor 1260	500	506	-1.2	+/- 15%
Column 2					
PCBCCV 0515-2	Aroclor 1016	500	538	-7.6	+/- 15%
PCBCCV 0515-2	Aroclor 1260	500	537	-7.4	+/- 15%

Date of Report: May 19, 2014
Samples Submitted: May 15, 2014
Laboratory Reference: 1405-127
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

**TOTAL METALS
EPA 6010C/7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 5-15-14
Date Analyzed: 5-15-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0515SM1&MB0515S1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25

Date of Report: May 19, 2014
Samples Submitted: May 15, 2014
Laboratory Reference: 1405-127
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

**TOTAL METALS
EPA 6010C/7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 5-15-14
Date Analyzed: 5-15-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-127-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Cadmium	ND	ND	NA	0.50	
Chromium	39.0	40.3	3	0.50	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	

Date of Report: May 19, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-127
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

TOTAL METALS
EPA 6010C/7471B
MS/MSD QUALITY CONTROL

Date Extracted: 5-15-14

Date Analyzed: 5-15-14

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 05-127-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	95.1	95	90.9	91	5	
Cadmium	50.0	47.9	96	48.1	96	0	
Chromium	100	122	84	133	94	8	
Lead	250	240	96	239	96	0	
Mercury	0.500	0.479	96	0.465	93	3	

Date of Report: May 19, 2014
 Samples Submitted: May 15, 2014
 Laboratory Reference: 1405-127
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

**TOTAL METALS
 EPA 6010C/7471B
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV051514P	1.00	0.967	3.3	+/- 10%
Cadmium	ICV051514P	1.00	0.989	1.1	+/- 10%
Chromium	ICV051514P	1.00	1.02	-2.0	+/- 10%
Lead	ICV051514P	1.00	0.981	1.9	+/- 10%
Mercury	ICV051514Y	0.00500	0.00467	6.6	+/- 10%
Arsenic	LLICV051514P	0.100	0.0897	10	+/- 30%
Cadmium	LLICV051514P	0.0100	0.0106	-6.0	+/- 30%
Chromium	LLICV051514P	0.0100	0.00946	5.4	+/- 30%
Lead	LLICV051514P	0.100	0.0852	15	+/- 30%
Arsenic	CCV1051514P	10.0	10.0	0	+/- 10%
Cadmium	CCV1051514P	1.00	1.02	-2.0	+/- 10%
Chromium	CCV1051514P	1.00	1.01	-1.0	+/- 10%
Lead	CCV1051514P	10.0	9.97	0.30	+/- 10%
Mercury	CCV1051514Y	0.00500	0.00476	4.8	+/- 20%
Arsenic	CCV2051514P	10.0	10.3	-3.0	+/- 10%
Cadmium	CCV2051514P	1.00	1.04	-4.0	+/- 10%
Chromium	CCV2051514P	1.00	1.04	-4.0	+/- 10%
Lead	CCV2051514P	10.0	10.1	-1.0	+/- 10%
Mercury	CCV2051514Y	0.00500	0.00488	2.4	+/- 20%
Mercury	CCV3051514Y	0.00500	0.00486	2.8	+/- 20%
Mercury	CCV4051514Y	0.00500	0.00475	5.0	+/- 20%

Date of Report: May 19, 2014
Samples Submitted: May 15, 2014
Laboratory Reference: 1405-127
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

% MOISTURE

Date Analyzed: 5-15-14

Client ID	Lab ID	% Moisture
C2-051414-PS-01	05-127-01	8



Data Qualifiers

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -



Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Page 1 of 1

Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.on-site-env.com						
Company: PART OF SEATTLE		Turnaround Request (in working days)				
Project Number: 104784		(Check One) <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days				
Project Name: CAROUSEL C VERTICAL CIRCUMSTATION		<input type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)				
Project Manager: STEVE FOX						
Sampled by: R. RETRELLI		<input type="checkbox"/> _____ (other)				
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	
1	C2-051414-PS-01	05/14/14	1355	SOIL	6	NWTPH-HCID
						NWTPH-Gx/BTEX
						NWTPH-Gx
						NWTPH-Dx + JET-A
						Volatiles 8260C
						Halogenated Volatiles 8260C
						Semivolatiles 8270D/SIM (with low-level PAHs)
						PAHs 8270D/SIM (low-level)
						PCBs 8082A
						Organochlorine Pesticides 8081B
Organophosphorus Pesticides 8270D/SIM						
Chlorinated Acid Herbicides 8151A						
Total RCRA Metals/ MTCA Metals (circle one)						
TCLP Metals						
HEM (oil and grease) 1664A						
% Moisture						
Comments/Special Instructions						
Email results to: FOX.S@PARTSEATTLE.COM ROBBINS.D@PARTSEATTLE.COM GETTERS.ASPECTCONSULTING.COM ACCT: 14010 ONE: 3480 SUBCURS: 0001 PROJECT: 104784 PC UNIT: POS ACTIVITY: construct RESQPR: EPTIC RESULT: EPCI						
Relinquished	Signature	Company	Date	Time		
Received						
Relinquished						
Received						
Relinquished						
Received						
Reviewed/Date						

Sample/Cooler Receipt and Acceptance Checklist

Client: POS
 Client Project Name/Number: 104784
 OnSite Project Number: 05-127

Initiated by: MM
 Date Initiated: 5/15/14

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	<u>N/A</u>	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	<u>N/A</u>	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<u>N/A</u>	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	<u>Yes</u>	No		1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	<u>Yes</u>	No	Temperature: <u>2</u>				
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<u>N/A</u>					
1.7 How were the samples delivered?	Client	<u>Courier</u>	UPS/FedEx	OSE Pickup	Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<u>Yes</u>	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	<u>Yes</u>	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	<u>Yes</u>	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<u>Yes</u>	No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	<u>Yes</u>	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<u>No</u>	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<u>No</u>	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	<u>No</u>	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	<u>Yes</u>	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	Yes	No	<u>N/A</u>	1	2	3	4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	<u>N/A</u>	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	<u>Yes</u>	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<u>No</u>	1	2	3	4	
3.8 Was method 5035A used?	<u>Yes</u>	No	N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1	2	3	4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

TRANSMITTAL MEMORANDUM

From: OnSite Environmental Inc.
To: Stacy Fox, Port of Seattle (Airport)

Date: May 28, 2014
Project Name: Conc C Vert Circ; 104784
Reference: S-00317836
Laboratory Reference Number: 1405-196
Subject: Tier 3 Data Deliverables

Description: Results of NWTPH-Gx/BTEX, NWTPH-Dx, PCBs EPA 8082A, and Total Metals EPA 6010C/7471B.



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May 28, 2014

Stacy Fox
Port of Seattle (Airport)
Airport Office Building
17801 Pacific Highway S., #A6012M
Seattle, WA 98158

Re: Analytical Data for Project Conc C Vert Circ; 104784
Laboratory Reference No. 1405-196

Dear Stacy:

Enclosed are the analytical results and associated quality control data for samples submitted on May 23, 2014.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures

Date of Report: May 28, 2014
Samples Submitted: May 23, 2014
Laboratory Reference: 1405-196
Project: Conc C Vert Circ; 104784
Professional Service Agreement: S-00317836

Case Narrative

Samples were collected on May 22, 2014, and received by the laboratory on May 23, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C. Please see Sample/Cooler Receipt form at the end of the report.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 28, 2014
Samples Submitted: May 23, 2014
Laboratory Reference: 1405-196
Project: Conc C Vert Circ; 104784
Professional Service Agreement: S-00317836

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
C14-052214-PS-01	05-196-01	Soil	5-22-14	5-23-14	

Date of Report: May 28, 2014
 Samples Submitted: May 23, 2014
 Laboratory Reference: 1405-196
 Project: Conc C Vert Circ; 104784
 Professional Service Agreement: S-00317836

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	C14-052214-PS-01					
Laboratory ID:	05-196-01					
Benzene	ND	0.020	EPA 8021B	5-23-14	5-27-14	
Toluene	ND	0.034	EPA 8021B	5-23-14	5-27-14	
Ethyl Benzene	ND	0.034	EPA 8021B	5-23-14	5-27-14	
m,p-Xylene	ND	0.034	EPA 8021B	5-23-14	5-27-14	
o-Xylene	ND	0.034	EPA 8021B	5-23-14	5-27-14	
Gasoline	ND	3.4	NWTPH-Gx	5-23-14	5-27-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	85	71-121				

Date of Report: May 28, 2014
 Samples Submitted: May 23, 2014
 Laboratory Reference: 1405-196
 Project: Conc C Vert Circ; 104784
 Professional Service Agreement: S-00317836

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	C14-052214-PS-01					
Laboratory ID:	05-196-01					
Jet A	35	27	NWTPH-Dx	5-23-14	5-23-14	
Lube Oil Range Organics	ND	54	NWTPH-Dx	5-23-14	5-23-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	76	50-150				

Date of Report: May 28, 2014
 Samples Submitted: May 23, 2014
 Laboratory Reference: 1405-196
 Project: Conc C Vert Circ; 104784
 Professional Service Agreement: S-00317836

PCBs by EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	C14-052214-PS-01					
Laboratory ID:	05-196-01					
Aroclor 1016	ND	0.054	EPA 8082A	5-23-14	5-23-14	
Aroclor 1221	ND	0.054	EPA 8082A	5-23-14	5-23-14	
Aroclor 1232	ND	0.054	EPA 8082A	5-23-14	5-23-14	
Aroclor 1242	ND	0.054	EPA 8082A	5-23-14	5-23-14	
Aroclor 1248	ND	0.054	EPA 8082A	5-23-14	5-23-14	
Aroclor 1254	ND	0.054	EPA 8082A	5-23-14	5-23-14	
Aroclor 1260	ND	0.054	EPA 8082A	5-23-14	5-23-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>84</i>	<i>51-138</i>				

Date of Report: May 28, 2014
 Samples Submitted: May 23, 2014
 Laboratory Reference: 1405-196
 Project: Conc C Vert Circ; 104784
 Professional Service Agreement: S-00317836

TOTAL METALS
EPA 6010C/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID: 05-196-01						
Client ID:	C14-052214-PS-01					
Arsenic	ND	11	6010C	5-23-14	5-23-14	
Cadmium	ND	0.54	6010C	5-23-14	5-23-14	
Chromium	44	0.54	6010C	5-23-14	5-23-14	
Lead	ND	5.4	6010C	5-23-14	5-23-14	
Mercury	ND	0.27	7471B	5-23-14	5-23-14	

Date of Report: May 28, 2014
 Samples Submitted: May 23, 2014
 Laboratory Reference: 1405-196
 Project: Conc C Vert Circ; 104784
 Professional Service Agreement: S-00317836

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523S1					
Benzene	ND	0.020	EPA 8021B	5-23-14	5-27-14	
Toluene	ND	0.050	EPA 8021B	5-23-14	5-27-14	
Ethyl Benzene	ND	0.050	EPA 8021B	5-23-14	5-27-14	
m,p-Xylene	ND	0.050	EPA 8021B	5-23-14	5-27-14	
o-Xylene	ND	0.050	EPA 8021B	5-23-14	5-27-14	
Gasoline	ND	5.0	NWTPH-Gx	5-23-14	5-27-14	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	91	71-121				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-196-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				85	78	71-121		

SPIKE BLANKS

Laboratory ID:	SB0523S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.882	0.940	1.00	1.00	88	94	73-121	6	10
Toluene	0.927	0.987	1.00	1.00	93	99	75-124	6	10
Ethyl Benzene	0.899	0.954	1.00	1.00	90	95	75-125	6	9
m,p-Xylene	0.909	0.965	1.00	1.00	91	97	75-126	6	9
o-Xylene	0.910	0.962	1.00	1.00	91	96	74-123	6	8
Surrogate:									
Fluorobenzene					91	98	71-121		

Date of Report: May 28, 2014
Samples Submitted: May 23, 2014
Laboratory Reference: 1405-196
Project: Conc C Vert Circ; 104784
Professional Service Agreement: S-00317836

**NWTPH-Gx
CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVH0527G-1	5.00	4.71	6	+/- 20%
CCVH0527G-2	5.00	4.66	7	+/- 20%

Date of Report: May 28, 2014
 Samples Submitted: May 23, 2014
 Laboratory Reference: 1405-196
 Project: Conc C Vert Circ; 104784
 Professional Service Agreement: S-00317836

**BTEX
 EPA 8021B
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVH0527B-1	50.0	50.6	-1	+/- 15%
Toluene	CCVH0527B-1	50.0	53.5	-7	+/- 15%
Ethyl Benzene	CCVH0527B-1	50.0	51.2	-2	+/- 15%
m,p-Xylene	CCVH0527B-1	50.0	52.0	-4	+/- 15%
o-Xylene	CCVH0527B-1	50.0	51.1	-2	+/- 15%
Benzene	CCVD0527B-2	50.0	47.7	5	+/- 15%
Toluene	CCVD0527B-2	50.0	50.1	0	+/- 15%
Ethyl Benzene	CCVD0527B-2	50.0	48.6	3	+/- 15%
m,p-Xylene	CCVD0527B-2	50.0	48.9	2	+/- 15%
o-Xylene	CCVD0527B-2	50.0	48.7	3	+/- 15%

Date of Report: May 28, 2014
 Samples Submitted: May 23, 2014
 Laboratory Reference: 1405-196
 Project: Conc C Vert Circ; 104784
 Professional Service Agreement: S-00317836

**NWTPH-Dx
QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523S1					
Jet A	ND	25	NWTPH-Dx	5-23-14	5-23-14	
Lube Oil Range Organics	ND	50	NWTPH-Dx	5-23-14	5-23-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-196-01							
	ORIG	DUP						
Jet A	32.1	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				76	79	50-150		

Date of Report: May 28, 2014
Samples Submitted: May 23, 2014
Laboratory Reference: 1405-196
Project: Conc C Vert Circ; 104784
Professional Service Agreement: S-00317836

**NWTPH-Dx
CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0523R-V1	100	103	-3.0	+/-15%
CCV0523R-V2	100	105	-5.0	+/-15%

Date of Report: May 28, 2014
 Samples Submitted: May 23, 2014
 Laboratory Reference: 1405-196
 Project: Conc C Vert Circ; 104784
 Professional Service Agreement: S-00317836

**PCBs by EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523S1					
Aroclor 1016	ND	0.050	EPA 8082A	5-23-14	5-23-14	
Aroclor 1221	ND	0.050	EPA 8082A	5-23-14	5-23-14	
Aroclor 1232	ND	0.050	EPA 8082A	5-23-14	5-23-14	
Aroclor 1242	ND	0.050	EPA 8082A	5-23-14	5-23-14	
Aroclor 1248	ND	0.050	EPA 8082A	5-23-14	5-23-14	
Aroclor 1254	ND	0.050	EPA 8082A	5-23-14	5-23-14	
Aroclor 1260	ND	0.050	EPA 8082A	5-23-14	5-23-14	
Surrogate:	Percent Recovery	Control Limits				
DCB	89	51-138				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	05-186-02										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.531	0.489	0.500	0.500	ND	106	98	49-136	8	14	
Surrogate:											
DCB						93	87	51-138			

Date of Report: May 28, 2014
 Samples Submitted: May 23, 2014
 Laboratory Reference: 1405-196
 Project: Conc C Vert Circ; 104784
 Professional Service Agreement: S-00317836

**PCB's by EPA 8082A
 CONTINUING CALIBRATION SUMMARY**

Lab ID	Analyte	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Column 1					
PCBCCV 0523-1	Aroclor 1016	500	500	0	+/- 15%
PCBCCV 0523-1	Aroclor 1260	500	469	6.2	+/- 15%
Column 2					
PCBCCV 0523-1	Aroclor 1016	500	544	-8.8	+/- 15%
PCBCCV 0523-1	Aroclor 1260	500	518	-3.6	+/- 15%
Column 1					
PCBCCV 0523-2	Aroclor 1016	500	486	2.8	+/- 15%
PCBCCV 0523-2	Aroclor 1260	500	459	8.2	+/- 15%
Column 2					
PCBCCV 0523-2	Aroclor 1016	500	534	-6.8	+/- 15%
PCBCCV 0523-2	Aroclor 1260	500	494	1.2	+/- 15%
Column 1					
PCBCCV 0523-3	Aroclor 1016	500	493	1.4	+/- 15%
PCBCCV 0523-3	Aroclor 1260	500	469	6.2	+/- 15%
Column 2					
PCBCCV 0523-3	Aroclor 1016	500	547	-9.4	+/- 15%
PCBCCV 0523-3	Aroclor 1260	500	532	-6.4	+/- 15%

Date of Report: May 28, 2014
Samples Submitted: May 23, 2014
Laboratory Reference: 1405-196
Project: Conc C Vert Circ; 104784
Professional Service Agreement: S-00317836

**TOTAL METALS
EPA 6010C/7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 5-23-14

Date Analyzed: 5-23-14

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: MB0523SM1&MB0523S1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25

Date of Report: May 28, 2014
Samples Submitted: May 23, 2014
Laboratory Reference: 1405-196
Project: Conc C Vert Circ; 104784
Professional Service Agreement: S-00317836

**TOTAL METALS
EPA 6010C/7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 5-23-14
Date Analyzed: 5-23-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-192-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Cadmium	ND	ND	NA	0.50	
Chromium	33.9	34.2	1	0.50	
Lead	18.1	14.3	24	5.0	C
Mercury	ND	ND	NA	0.25	

Date of Report: May 28, 2014
 Samples Submitted: May 23, 2014
 Laboratory Reference: 1405-196
 Project: Conc C Vert Circ; 104784
 Professional Service Agreement: S-00317836

TOTAL METALS
EPA 6010C/7471B
MS/MSD QUALITY CONTROL

Date Extracted: 5-23-14

Date Analyzed: 5-23-14

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 05-192-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	88.8	89	88.7	89	0	
Cadmium	50.0	44.5	89	44.5	89	0	
Chromium	100	117	83	125	91	7	
Lead	250	243	90	253	94	4	
Mercury	0.500	0.488	98	0.439	88	11	

Date of Report: May 28, 2014
 Samples Submitted: May 23, 2014
 Laboratory Reference: 1405-196
 Project: Conc C Vert Circ; 104784
 Professional Service Agreement: S-00317836

**TOTAL METALS
 EPA 6010C/7471B
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV052314P	1.00	0.933	6.7	+/- 10%
Cadmium	ICV052314P	1.00	0.973	2.7	+/- 10%
Chromium	ICV052314P	1.00	0.991	0.90	+/- 10%
Lead	ICV052314P	1.00	0.993	0.70	+/- 10%
Mercury	ICV052314Y	0.00500	0.00524	-4.8	+/- 10%
Arsenic	LLICV052314P	0.100	0.0938	6.2	+/- 30%
Cadmium	LLICV052314P	0.0100	0.00978	2.2	+/- 30%
Chromium	LLICV052314P	0.0100	0.0102	-2.0	+/- 30%
Lead	LLICV052314P	0.100	0.0938	6.2	+/- 30%
Arsenic	CCV1052314P	10.0	9.56	4.4	+/- 10%
Cadmium	CCV1052314P	1.00	0.966	3.4	+/- 10%
Chromium	CCV1052314P	1.00	0.953	4.7	+/- 10%
Lead	CCV1052314P	10.0	9.57	4.3	+/- 10%
Mercury	CCV1052314Y	0.00500	0.00468	6.4	+/- 20%
Arsenic	CCV2052314P	10.0	9.43	5.7	+/- 10%
Cadmium	CCV2052314P	1.00	0.956	4.4	+/- 10%
Chromium	CCV2052314P	1.00	0.945	5.5	+/- 10%
Lead	CCV2052314P	10.0	9.51	4.9	+/- 10%
Mercury	CCV2052314Y	0.00500	0.00470	6.0	+/- 20%
Arsenic	LLCCV2052314P	0.100	0.107	-7.0	+/- 30%
Cadmium	LLCCV2052314P	0.0100	0.0101	-1.0	+/- 30%
Chromium	LLCCV2052314P	0.0100	0.00915	8.5	+/- 30%
Lead	LLCCV2052314P	0.100	0.113	-13	+/- 30%

Date of Report: May 28, 2014
 Samples Submitted: May 23, 2014
 Laboratory Reference: 1405-196
 Project: Conc C Vert Circ; 104784
 Professional Service Agreement: S-00317836

TOTAL METALS
EPA 6010C/7471B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	CCV3052314P	10.0	9.79	2.1	+/- 10%
Cadmium	CCV3052314P	1.00	0.959	4.1	+/- 10%
Chromium	CCV3052314P	1.00	0.951	4.9	+/- 10%
Lead	CCV3052314P	10.0	9.51	4.9	+/- 10%
Arsenic	LLCCV3052314P	0.100	0.0929	7.1	+/- 30%
Cadmium	LLCCV3052314P	0.0100	0.0107	-7.0	+/- 30%
Chromium	LLCCV3052314P	0.0100	0.0101	-1.0	+/- 30%
Lead	LLCCV3052314P	0.100	0.113	-13	+/- 30%

Date of Report: May 28, 2014
Samples Submitted: May 23, 2014
Laboratory Reference: 1405-196
Project: Conc C Vert Circ; 104784
Professional Service Agreement: S-00317836

% MOISTURE

Date Analyzed: 5-23-14

Client ID	Lab ID	% Moisture
C14-052214-PS-01	05-196-01	8



Data Qualifiers

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -



Analytical Laboratory Testing Services
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Phone: (425) 883-3881 • www.onsite-env.com

Page 1 of 1

05-196

Company: Pacific Seattle						(Check One)	
Project Number: 104784						<input type="checkbox"/> Same Day	<input checked="" type="checkbox"/> 1 Day
Project Name: CONC VENT CIRC						<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days
Project Manager: STACY FOX						<input type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)	
Sampled by: R. PETRIUCCI						<input type="checkbox"/> _____ (other)	
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers		
1	C19 SITE-052214-P5-01	5/24/14	1325	SOLV	NWTPH-HCID		
					NWTPH-Gx/BTEX		
					NWTPH-Gx		
					NWTPH-Dx	+ IGT-A	
					Volatiles 8260C		
					Halogenated Volatiles 8260C		
					Semivolatiles 8270D/SIM (with low-level PAHs)		
					PAHs 8270D/SIM (low-level)		
					PCBs 8082A		
					Organochlorine Pesticides 8081B		
					Organophosphorus Pesticides 8270D/SIM		
					Chlorinated Acid Herbicides 8151A		
					Total RCRA Metals	MTCA Metals (circle one)	
					TCLP Metals		
					HEM (oil and grease) 1664A		
					% Moisture		

Sample/Cooler Receipt and Acceptance Checklist

Client: POS
 Client Project Name/Number: 104784
 OnSite Project Number: 05-196

Initiated by: [Signature]
 Date Initiated: 5/23/14

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	N/A	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		4	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: _____				
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A					
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup	Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	No	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	Yes	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1	2	3	4
3.5 Are volatile samples free from headspace and air bubbles?	Yes	No	N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No	1	2	3	4	
3.8 Was method 5035A used?	Yes	No	N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	1	N/A	1	2	3	4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed



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TRANSMITTAL MEMORANDUM

From: OnSite Environmental Inc.

To: Stacy Fox, Port of Seattle (Airport)

Date: July 14, 2014

Project Name: Concourse C Vertical Circulation; 104784

Reference: S-00317836

Laboratory Reference Number: 1407-082

Subject: Tier 3 Data Deliverables

Description: Results of NWTPH-Gx, NWTPH-Dx, Volatiles EPA 8260C, Semivolatiles EPA 8270D/SIM, PCBs EPA 8082A, and Total Metals EPA 6010C/7471B.



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July 14, 2014

Stacy Fox
Port of Seattle (Airport)
Airport Office Building
17801 Pacific Highway S., #A6012M
Seattle, WA 98158

Re: Analytical Data for Project Concourse C Vertical Circulation; 104784
Laboratory Reference No. 1407-082

Dear Stacy:

Enclosed are the analytical results and associated quality control data for samples submitted on July 10, 2014.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", followed by a horizontal line.

David Baumeister
Project Manager

Enclosures

Date of Report: July 14, 2014
Samples Submitted: July 10, 2014
Laboratory Reference: 1407-082
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

Case Narrative

Samples were collected on July 9, 2014 and received by the laboratory on July 10, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C. Please see Sample/Cooler Receipt form at the end of the report.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx and Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: July 14, 2014
Samples Submitted: July 10, 2014
Laboratory Reference: 1407-082
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
C10/12-070914-PS-01	07-082-01	Soil	7-9-14	7-10-14	

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	C10/12-070914-PS-01					
Laboratory ID:	07-082-01					
Gasoline	ND	4.2	NWTPH-Gx	7-10-14	7-10-14	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	103	71-121				

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	C10/12-070914-PS-01					
Laboratory ID:	07-082-01					
Diesel Range Organics	ND	27	NWTPH-Dx	7-10-14	7-10-14	
Lube Oil Range Organics	ND	53	NWTPH-Dx	7-10-14	7-10-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

VOLATILES by EPA 8260C

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: C10/12-070914-PS-01						
Laboratory ID: 07-082-01						
Dichlorodifluoromethane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Chloromethane	ND	0.0026	EPA 8260C	7-10-14	7-10-14	
Vinyl Chloride	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Bromomethane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Chloroethane	ND	0.0026	EPA 8260C	7-10-14	7-10-14	
Trichlorofluoromethane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,1-Dichloroethene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Acetone	ND	0.0026	EPA 8260C	7-10-14	7-10-14	
Iodomethane	ND	0.0026	EPA 8260C	7-10-14	7-10-14	
Carbon Disulfide	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Methylene Chloride	ND	0.0026	EPA 8260C	7-10-14	7-10-14	
(trans) 1,2-Dichloroethene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Methyl t-Butyl Ether	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,1-Dichloroethane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Vinyl Acetate	ND	0.0026	EPA 8260C	7-10-14	7-10-14	
2,2-Dichloropropane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
(cis) 1,2-Dichloroethene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
2-Butanone	ND	0.0026	EPA 8260C	7-10-14	7-10-14	
Bromochloromethane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Chloroform	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,1,1-Trichloroethane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Carbon Tetrachloride	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,1-Dichloropropene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Benzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,2-Dichloroethane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Trichloroethene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,2-Dichloropropane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Dibromomethane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Bromodichloromethane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
2-Chloroethyl Vinyl Ether	ND	0.0026	EPA 8260C	7-10-14	7-10-14	
(cis) 1,3-Dichloropropene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Methyl Isobutyl Ketone	ND	0.0026	EPA 8260C	7-10-14	7-10-14	
Toluene	ND	0.0026	EPA 8260C	7-10-14	7-10-14	
(trans) 1,3-Dichloropropene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

VOLATILES by EPA 8260C

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: C10/12-070914-PS-01						
Laboratory ID: 07-082-01						
1,1,2-Trichloroethane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Tetrachloroethene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,3-Dichloropropane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
2-Hexanone	ND	0.0026	EPA 8260C	7-10-14	7-10-14	
Dibromochloromethane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,2-Dibromoethane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Chlorobenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,1,1,2-Tetrachloroethane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Ethylbenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
m,p-Xylene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
o-Xylene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Styrene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Bromoform	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Isopropylbenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Bromobenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,1,2,2-Tetrachloroethane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,2,3-Trichloropropane	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
n-Propylbenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
2-Chlorotoluene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
4-Chlorotoluene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,3,5-Trimethylbenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
tert-Butylbenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,2,4-Trimethylbenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
sec-Butylbenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,3-Dichlorobenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
p-Isopropyltoluene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,4-Dichlorobenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,2-Dichlorobenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
n-Butylbenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,2-Dibromo-3-chloropropane	ND	0.0026	EPA 8260C	7-10-14	7-10-14	
1,2,4-Trichlorobenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
Hexachlorobutadiene	ND	0.0026	EPA 8260C	7-10-14	7-10-14	
Naphthalene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
1,2,3-Trichlorobenzene	ND	0.00052	EPA 8260C	7-10-14	7-10-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>73-124</i>				

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

SEMIVOLATILES by EPA 8270D/SIM

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: C10/12-070914-PS-01						
Laboratory ID: 07-082-01						
n-Nitrosodimethylamine	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Pyridine	ND	0.36	EPA 8270D	7-11-14	7-11-14	
Phenol	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Aniline	ND	0.18	EPA 8270D	7-11-14	7-11-14	
bis(2-Chloroethyl)ether	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2-Chlorophenol	ND	0.036	EPA 8270D	7-11-14	7-11-14	
1,3-Dichlorobenzene	ND	0.036	EPA 8270D	7-11-14	7-11-14	
1,4-Dichlorobenzene	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Benzyl alcohol	ND	0.18	EPA 8270D	7-11-14	7-11-14	
1,2-Dichlorobenzene	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2-Methylphenol (o-Cresol)	ND	0.036	EPA 8270D	7-11-14	7-11-14	
bis(2-Chloroisopropyl)ether	ND	0.036	EPA 8270D	7-11-14	7-11-14	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.036	EPA 8270D	7-11-14	7-11-14	
n-Nitroso-di-n-propylamine	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Hexachloroethane	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Nitrobenzene	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Isophorone	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2-Nitrophenol	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2,4-Dimethylphenol	ND	0.036	EPA 8270D	7-11-14	7-11-14	
bis(2-Chloroethoxy)methane	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2,4-Dichlorophenol	ND	0.036	EPA 8270D	7-11-14	7-11-14	
1,2,4-Trichlorobenzene	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Naphthalene	ND	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
4-Chloroaniline	ND	0.18	EPA 8270D	7-11-14	7-11-14	
Hexachlorobutadiene	ND	0.036	EPA 8270D	7-11-14	7-11-14	
4-Chloro-3-methylphenol	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
1-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
Hexachlorocyclopentadiene	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2,4,6-Trichlorophenol	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2,3-Dichloroaniline	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2,4,5-Trichlorophenol	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2-Chloronaphthalene	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2-Nitroaniline	ND	0.036	EPA 8270D	7-11-14	7-11-14	
1,4-Dinitrobenzene	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Dimethylphthalate	ND	0.036	EPA 8270D	7-11-14	7-11-14	
1,3-Dinitrobenzene	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2,6-Dinitrotoluene	ND	0.036	EPA 8270D	7-11-14	7-11-14	
1,2-Dinitrobenzene	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Acenaphthylene	ND	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
3-Nitroaniline	ND	0.036	EPA 8270D	7-11-14	7-11-14	

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody,
 and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

SEMIVOLATILES by EPA 8270D/SIM

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: C10/12-070914-PS-01						
Laboratory ID: 07-082-01						
2,4-Dinitrophenol	ND	0.18	EPA 8270D	7-11-14	7-11-14	
Acenaphthene	ND	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
4-Nitrophenol	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2,4-Dinitrotoluene	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Dibenzofuran	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2,3,5,6-Tetrachlorophenol	ND	0.036	EPA 8270D	7-11-14	7-11-14	
2,3,4,6-Tetrachlorophenol	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Diethylphthalate	ND	0.18	EPA 8270D	7-11-14	7-11-14	
4-Chlorophenyl-phenylether	ND	0.036	EPA 8270D	7-11-14	7-11-14	
4-Nitroaniline	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Fluorene	ND	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	7-11-14	7-11-14	
n-Nitrosodiphenylamine	ND	0.036	EPA 8270D	7-11-14	7-11-14	
1,2-Diphenylhydrazine	ND	0.036	EPA 8270D	7-11-14	7-11-14	
4-Bromophenyl-phenylether	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Hexachlorobenzene	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Pentachlorophenol	ND	0.18	EPA 8270D	7-11-14	7-11-14	
Phenanthrene	ND	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
Anthracene	ND	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
Carbazole	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Di-n-butylphthalate	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Fluoranthene	ND	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
Benzidine	ND	0.36	EPA 8270D	7-11-14	7-11-14	
Pyrene	0.0092	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
Butylbenzylphthalate	ND	0.036	EPA 8270D	7-11-14	7-11-14	
bis-2-Ethylhexyladipate	ND	0.036	EPA 8270D	7-11-14	7-11-14	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	7-11-14	7-11-14	
Benzo[a]anthracene	0.0074	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
Chrysene	0.0087	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
bis(2-Ethylhexyl)phthalate	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Di-n-octylphthalate	ND	0.036	EPA 8270D	7-11-14	7-11-14	
Benzo[b]fluoranthene	0.0078	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
Benzo(j,k)fluoranthene	ND	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
Benzo[a]pyrene	0.0073	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
Indeno[1,2,3-cd]pyrene	ND	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
Dibenz[a,h]anthracene	ND	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
Benzo[g,h,i]perylene	ND	0.0071	EPA 8270D/SIM	7-11-14	7-11-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	50	24 - 105				
Phenol-d6	51	34 - 101				
Nitrobenzene-d5	45	32 - 102				
2-Fluorobiphenyl	58	44 - 100				
2,4,6-Tribromophenol	51	34 - 124				
Terphenyl-d14	54	47 - 114				

Date of Report: July 14, 2014
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 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

PCBs by EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: C10/12-070914-PS-01						
Laboratory ID: 07-082-01						
Aroclor 1016	ND	0.053	EPA 8082A	7-11-14	7-11-14	
Aroclor 1221	ND	0.053	EPA 8082A	7-11-14	7-11-14	
Aroclor 1232	ND	0.053	EPA 8082A	7-11-14	7-11-14	
Aroclor 1242	ND	0.053	EPA 8082A	7-11-14	7-11-14	
Aroclor 1248	ND	0.053	EPA 8082A	7-11-14	7-11-14	
Aroclor 1254	ND	0.053	EPA 8082A	7-11-14	7-11-14	
Aroclor 1260	ND	0.053	EPA 8082A	7-11-14	7-11-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	97	51-138				

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

TOTAL METALS
EPA 6010C/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID: 07-082-01						
Client ID: C10/12-070914-PS-01						
Arsenic	ND	11	6010C	7-10-14	7-11-14	
Barium	49	2.7	6010C	7-10-14	7-11-14	
Cadmium	ND	0.53	6010C	7-10-14	7-11-14	
Chromium	20	0.53	6010C	7-10-14	7-11-14	
Lead	ND	5.3	6010C	7-10-14	7-11-14	
Mercury	ND	0.27	7471B	7-11-14	7-11-14	
Selenium	ND	11	6010C	7-10-14	7-11-14	
Silver	ND	1.1	6010C	7-10-14	7-11-14	

Date of Report: July 14, 2014
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 Professional Service Agreement: S-00317836

**NWTPH-Gx
QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0710S3					
Gasoline	ND	5.0	NWTPH-Gx	7-10-14	7-10-14	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	71-121				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-082-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				103	105	71-121		

Date of Report: July 14, 2014
Samples Submitted: July 10, 2014
Laboratory Reference: 1407-082
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

**NWTPH-Gx
CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD0710G-1	5.00	5.47	-9	+/- 20%
CCVD0710G-2	5.00	5.39	-8	+/- 20%

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

**NWTPH-Dx
QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0710S2					
Diesel Range Organics	ND	25	NWTPH-Dx	7-10-14	7-10-14	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-10-14	7-10-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-083-01							
	ORIG	DUP						
Diesel Fuel #2	27.4	ND	NA	NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				83	82	50-150		

Date of Report: July 14, 2014
Samples Submitted: July 10, 2014
Laboratory Reference: 1407-082
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

**NWTPH-Dx
CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0710F-T4	100	98.6	1.4	+/-15%
CCV0710F-T5	100	97.8	2.2	+/-15%
CCV0710R-T4	100	96.9	3.1	+/-15%
CCV0710R-T5	100	98.1	1.9	+/-15%

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0710S1						
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Chloromethane	ND	0.0050	EPA 8260C	7-10-14	7-10-14	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Bromomethane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Chloroethane	ND	0.0050	EPA 8260C	7-10-14	7-10-14	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Acetone	ND	0.0050	EPA 8260C	7-10-14	7-10-14	
Iodomethane	ND	0.0050	EPA 8260C	7-10-14	7-10-14	
Carbon Disulfide	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Methylene Chloride	ND	0.0050	EPA 8260C	7-10-14	7-10-14	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Vinyl Acetate	ND	0.0050	EPA 8260C	7-10-14	7-10-14	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
2-Butanone	ND	0.0050	EPA 8260C	7-10-14	7-10-14	
Bromochloromethane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Chloroform	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Benzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Trichloroethene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Dibromomethane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	7-10-14	7-10-14	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	7-10-14	7-10-14	
Toluene	ND	0.0050	EPA 8260C	7-10-14	7-10-14	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	

Date of Report: July 14, 2014
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 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0710S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
2-Hexanone	ND	0.0050	EPA 8260C	7-10-14	7-10-14	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Chlorobenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Ethylbenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
m,p-Xylene	ND	0.0020	EPA 8260C	7-10-14	7-10-14	
o-Xylene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Styrene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Bromoform	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Isopropylbenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Bromobenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
n-Propylbenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
tert-Butylbenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
sec-Butylbenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
n-Butylbenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	7-10-14	7-10-14	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-10-14	7-10-14	
Naphthalene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-10-14	7-10-14	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	100	65-129				
Toluene-d8	109	77-122				
4-Bromofluorobenzene	114	73-124				

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0710S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0476	0.0493	0.0500	0.0500	95	99	56-141	4	15	
Benzene	0.0494	0.0502	0.0500	0.0500	99	100	70-121	2	15	
Trichloroethene	0.0522	0.0501	0.0500	0.0500	104	100	74-118	4	15	
Toluene	0.0515	0.0498	0.0500	0.0500	103	100	75-120	3	15	
Chlorobenzene	0.0495	0.0476	0.0500	0.0500	99	95	75-120	4	15	
Surrogate:										
Dibromofluoromethane					90	94	65-129			
Toluene-d8					101	101	77-122			
4-Bromofluorobenzene					107	107	73-124			

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
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 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

**SEMIVOLATILES by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0711S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Pyridine	ND	0.33	EPA 8270D	7-11-14	7-11-14	
Phenol	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Aniline	ND	0.17	EPA 8270D	7-11-14	7-11-14	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2-Chlorophenol	ND	0.033	EPA 8270D	7-11-14	7-11-14	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	7-11-14	7-11-14	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Benzyl alcohol	ND	0.17	EPA 8270D	7-11-14	7-11-14	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	7-11-14	7-11-14	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	7-11-14	7-11-14	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	7-11-14	7-11-14	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Hexachloroethane	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Nitrobenzene	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Isophorone	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2-Nitrophenol	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	7-11-14	7-11-14	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	7-11-14	7-11-14	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Naphthalene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
4-Chloroaniline	ND	0.17	EPA 8270D	7-11-14	7-11-14	
Hexachlorobutadiene	ND	0.033	EPA 8270D	7-11-14	7-11-14	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2-Chloronaphthalene	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2-Nitroaniline	ND	0.033	EPA 8270D	7-11-14	7-11-14	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Dimethylphthalate	ND	0.033	EPA 8270D	7-11-14	7-11-14	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	7-11-14	7-11-14	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
3-Nitroaniline	ND	0.033	EPA 8270D	7-11-14	7-11-14	

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody,
 and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

**SEMIVOLATILES by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0711S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	7-11-14	7-11-14	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
4-Nitrophenol	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Dibenzofuran	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	7-11-14	7-11-14	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Diethylphthalate	ND	0.17	EPA 8270D	7-11-14	7-11-14	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	7-11-14	7-11-14	
4-Nitroaniline	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Fluorene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	7-11-14	7-11-14	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	7-11-14	7-11-14	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	7-11-14	7-11-14	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Hexachlorobenzene	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Pentachlorophenol	ND	0.17	EPA 8270D	7-11-14	7-11-14	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
Anthracene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
Carbazole	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Di-n-butylphthalate	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
Benzidine	ND	0.33	EPA 8270D	7-11-14	7-11-14	
Pyrene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
Butylbenzylphthalate	ND	0.033	EPA 8270D	7-11-14	7-11-14	
bis-2-Ethylhexyladipate	ND	0.033	EPA 8270D	7-11-14	7-11-14	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	7-11-14	7-11-14	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
Chrysene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
bis(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Di-n-octylphthalate	ND	0.033	EPA 8270D	7-11-14	7-11-14	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	7-11-14	7-11-14	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	70	24 - 105				
Phenol-d6	69	34 - 101				
Nitrobenzene-d5	63	32 - 102				
2-Fluorobiphenyl	77	44 - 100				
2,4,6-Tribromophenol	65	34 - 124				
Terphenyl-d14	73	47 - 114				

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0711S1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	0.868	0.849	1.33	1.33	65	64	41 - 104	2	36	
2-Chlorophenol	0.932	0.908	1.33	1.33	70	68	41 - 100	3	42	
1,4-Dichlorobenzene	0.452	0.440	0.667	0.667	68	66	34 - 100	3	48	
n-Nitroso-di-n-propylamine	0.413	0.441	0.667	0.667	62	66	41 - 98	7	30	
1,2,4-Trichlorobenzene	0.433	0.411	0.667	0.667	65	62	30 - 105	5	46	
4-Chloro-3-methylphenol	0.839	0.944	1.33	1.33	63	71	57 - 101	12	27	
Acenaphthene	0.395	0.414	0.667	0.667	59	62	56 - 95	5	22	
4-Nitrophenol	0.975	1.08	1.33	1.33	73	81	41 - 133	10	24	
2,4-Dinitrotoluene	0.419	0.464	0.667	0.667	63	70	63 - 110	10	23	
Pentachlorophenol	0.863	0.892	1.33	1.33	65	67	35 - 120	3	29	
Pyrene	0.428	0.445	0.667	0.667	64	67	56 - 114	4	25	
Surrogate:										
2-Fluorophenol					71	69	24 - 105			
Phenol-d6					70	71	34 - 101			
Nitrobenzene-d5					63	59	32 - 102			
2-Fluorobiphenyl					74	75	44 - 100			
2,4,6-Tribromophenol					65	66	34 - 124			
Terphenyl-d14					73	71	47 - 114			

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

**PCBs by EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0711S1					
Aroclor 1016	ND	0.050	EPA 8082A	7-11-14	7-11-14	
Aroclor 1221	ND	0.050	EPA 8082A	7-11-14	7-11-14	
Aroclor 1232	ND	0.050	EPA 8082A	7-11-14	7-11-14	
Aroclor 1242	ND	0.050	EPA 8082A	7-11-14	7-11-14	
Aroclor 1248	ND	0.050	EPA 8082A	7-11-14	7-11-14	
Aroclor 1254	ND	0.050	EPA 8082A	7-11-14	7-11-14	
Aroclor 1260	ND	0.050	EPA 8082A	7-11-14	7-11-14	
Surrogate:	Percent Recovery	Control Limits				
DCB	111	51-138				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	07-073-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.559	0.500	0.500	0.500	ND	112	100	49-136	11	14	
Surrogate:											
DCB						108	98	51-138			

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

**PCB's by EPA 8082A
 CONTINUING CALIBRATION SUMMARY**

Lab ID	Analyte	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Column 1					
PCBCCV 0711-2	Aroclor 1016	500	520	-4.0	+/- 15%
PCBCCV 0711-2	Aroclor 1260	500	475	5.0	+/- 15%
Column 2					
PCBCCV 0711-2	Aroclor 1016	500	551	-10	+/- 15%
PCBCCV 0711-2	Aroclor 1260	500	529	-5.8	+/- 15%
Column 1					
PCBCCV 0711-3	Aroclor 1016	500	515	-3.0	+/- 15%
PCBCCV 0711-3	Aroclor 1260	500	485	3.0	+/- 15%
Column 2					
PCBCCV 0711-3	Aroclor 1016	500	570	-14	+/- 15%
PCBCCV 0711-3	Aroclor 1260	500	533	-6.6	+/- 15%
Column 1					
PCBCCV 0711-4	Aroclor 1016	500	515	-3.0	+/- 15%
PCBCCV 0711-4	Aroclor 1260	500	479	4.2	+/- 15%
Column 2					
PCBCCV 0711-4	Aroclor 1016	500	570	-14	+/- 15%
PCBCCV 0711-4	Aroclor 1260	500	529	-5.8	+/- 15%

Date of Report: July 14, 2014
Samples Submitted: July 10, 2014
Laboratory Reference: 1407-082
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

**TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-10-14
Date Analyzed: 7-11-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0710SM4

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0

Date of Report: July 14, 2014
Samples Submitted: July 10, 2014
Laboratory Reference: 1407-082
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-11-14
Date Analyzed: 7-11-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0711S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

TOTAL METALS
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 7-10-14
 Date Analyzed: 7-11-14

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: 07-077-61

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	49.9	51.6	3	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	22.0	21.1	4	0.50	
Lead	ND	ND	NA	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	

Date of Report: July 14, 2014
Samples Submitted: July 10, 2014
Laboratory Reference: 1407-082
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 7-11-14
Date Analyzed: 7-11-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-069-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

TOTAL METALS
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 7-10-14

Date Analyzed: 7-11-14

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-077-61

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	98.8	99	96.9	97	2	
Barium	100	153	103	137	87	11	
Cadmium	50.0	50.2	100	49.7	99	1	
Chromium	100	119	97	115	93	3	
Lead	250	256	102	251	100	2	
Selenium	100	99.8	100	99.4	99	0	
Silver	25.0	22.5	90	22.9	91	2	

Date of Report: July 14, 2014
Samples Submitted: July 10, 2014
Laboratory Reference: 1407-082
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 7-11-14

Date Analyzed: 7-11-14

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-069-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.524	105	0.523	105	0	

Date of Report: July 14, 2014
 Samples Submitted: July 10, 2014
 Laboratory Reference: 1407-082
 Project: Concourse C Vertical Circulation; 104784
 Professional Service Agreement: S-00317836

**TOTAL METALS
 EPA 6010C/7471B
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV071114P	1.00	0.993	0.70	+/- 10%
Barium	ICV071114P	1.00	0.991	0.90	+/- 10%
Cadmium	ICV071114P	1.00	1.03	-3.0	+/- 10%
Chromium	ICV071114P	1.00	1.07	-7.0	+/- 10%
Lead	ICV071114P	1.00	1.07	-7.0	+/- 10%
Mercury	ICV071114Y	0.00500	0.00476	4.8	+/- 10%
Selenium	ICV071114P	1.00	0.986	1.4	+/- 10%
Silver	ICV071114P	1.00	1.04	-4.0	+/- 10%
Arsenic	LLICV071114P	0.100	0.107	-7.0	+/- 30%
Barium	LLICV071114P	0.0200	0.0221	-11	+/- 30%
Cadmium	LLICV071114P	0.0100	0.0121	-21	+/- 30%
Chromium	LLICV071114P	0.0100	0.0115	-15	+/- 30%
Lead	LLICV071114P	0.100	0.119	-19	+/- 30%
Selenium	LLICV071114P	0.100	0.107	-7.0	+/- 30%
Silver	LLICV071114P	0.0100	0.0100	0	+/- 30%
Arsenic	CCV1071114P	10.0	9.91	0.90	+/- 10%
Barium	CCV1071114P	2.00	1.90	5.0	+/- 10%
Cadmium	CCV1071114P	1.00	1.04	-4.0	+/- 10%
Chromium	CCV1071114P	1.00	1.04	-4.0	+/- 10%
Lead	CCV1071114P	10.0	10.3	-3.0	+/- 10%
Mercury	CCV1071114Y	0.00500	0.00475	5.0	+/- 20%
Selenium	CCV1071114P	10.0	9.84	1.6	+/- 10%
Silver	CCV1071114P	1.00	1.02	-2.0	+/- 10%
Arsenic	CCV2071114P	10.0	9.91	0.90	+/- 10%
Barium	CCV2071114P	2.00	1.91	4.5	+/- 10%
Cadmium	CCV2071114P	1.00	1.05	-5.0	+/- 10%
Chromium	CCV2071114P	1.00	1.04	-4.0	+/- 10%
Lead	CCV2071114P	10.0	10.2	-2.0	+/- 10%
Mercury	CCV2071114Y	0.00500	0.00476	4.8	+/- 20%
Selenium	CCV2071114P	10.0	9.96	0.40	+/- 10%
Silver	CCV2071114P	1.00	1.03	-3.0	+/- 10%
Arsenic	LLCCV2071114P	0.100	0.102	-2.0	+/- 30%
Barium	LLCCV2071114P	0.0200	0.0214	-7.0	+/- 30%
Cadmium	LLCCV2071114P	0.0100	0.0117	-17	+/- 30%
Chromium	LLCCV2071114P	0.0100	0.0107	-7	+/- 30%
Lead	LLCCV2071114P	0.100	0.117	-17	+/- 30%
Selenium	LLCCV2071114P	0.100	0.130	-30	+/- 30%
Silver	LLCCV2071114P	0.0100	0.0102	-2.0	+/- 30%

Date of Report: July 14, 2014
Samples Submitted: July 10, 2014
Laboratory Reference: 1407-082
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

**TOTAL MERCURY
EPA 7471B
CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Mercury	CCV3071114Y	0.00500	0.00478	4.4	+/- 20%
Mercury	CCV4071114Y	0.00500	0.00474	5.2	+/- 20%

Date of Report: July 14, 2014
Samples Submitted: July 10, 2014
Laboratory Reference: 1407-082
Project: Concourse C Vertical Circulation; 104784
Professional Service Agreement: S-00317836

% MOISTURE

Date Analyzed: 7-10-14

Client ID	Lab ID	% Moisture
C10/12-070914-PS-01	07-082-01	6



Data Qualifiers

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -



Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

Laboratory Number:

07-082

(Check One)

☐ Same Day ☐ 1 Day

☒ 2 Days ☐ 3 Days

☐ Standard (7 Days)
(TPH analysis 5 Days)

☐ (other) _____

Number of Containers

NWTPH-HCID

NWTPH-Gx/BTEX

NWTPH-Gx

NWTPH-Dx **+ JET-A**

Volatiles 8260C

Halogenated Volatiles 8260C

Semivolatiles 8270D/SIM
(with low-level PAHs)

PAHs 8270D/SIM (low-level)

PCBs 8082A

Organochlorine Pesticides 8081B

Organophosphorus Pesticides 8270D/SIM

Chlorinated Acid Herbicides 8151A

Total RCRA Metals

Total MTCA Metals

TCLP Metals

HEM (oil and grease) 1664A

% Moisture

Company: Part of Seattle	Project Number: 104784	Project Name: CONSTRUCT C Vertical Circulation	Project Manager: STACY FOX	Sampled by: R. PENNELL	Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx + JET-A	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture		
					1	210/12-070914-PS-01	07/04/14	0915	SOIL	6			X	X	X			X		X									
Relinquished	Signature: <i>[Signature]</i>	Company: ASPECT	Date: 07/04/14	Time: 1500	Comments/Special Instructions EMAIL RESULTS TO: FOX.S@partseattle.org ROBERTS.D@partseattle.org GFERMS@aspectconsulting.com ACCT-1401D ORCA-3480 SUBCLASS-0001 PROJECT-104784 PC VMT-POS ACTIVITY-CONSTRUCT TESTTYPE-EP-TIO RESULT-EPCLII																								
Received	Signature: <i>[Signature]</i>	Company: SPCND-1	Date: 7/10/14	Time: 0300																									
Relinquished	Signature: <i>[Signature]</i>	Company: SPCND-1	Date: 7/10/14	Time: 1011																									
Received	Signature: <i>[Signature]</i>	Company: SPCND-1	Date: 7/10/14	Time: 1011																									
Relinquished	Signature: <i>[Signature]</i>	Company: SPCND-1	Date: 7/10/14	Time: 1011																									
Received	Signature: <i>[Signature]</i>	Company: SPCND-1	Date: 7/10/14	Time: 1011																									
Reviewed/Date	Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/>																										

Sample/Cooler Receipt and Acceptance Checklist

Client: POS
 Client Project Name/Number: 104-784
 OnSite Project Number: 07-082

Initiated by: [Signature]
 Date Initiated: 7/10/14

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	<u>N/A</u>	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	<u>N/A</u>	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<u>N/A</u>	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	<u>Yes</u>	No		1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	<u>Yes</u>	No	Temperature: <u>4</u>				
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<u>N/A</u>					
1.7 How were the samples delivered?	Client	<u>Courier</u>	UPS/FedEx	OSE Pickup	Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<u>Yes</u>	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	<u>Yes</u>	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	<u>Yes</u>	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<u>Yes</u>	No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	<u>Yes</u>	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<u>No</u>	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<u>No</u>	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	<u>No</u>	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	<u>Yes</u>	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	Yes	No	<u>N/A</u>	1	2	3	4
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	Yes	No	<u>N/A</u>	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	<u>Yes</u>	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<u>No</u>	1	2	3	4	
3.8 Was method 5035A used?	<u>Yes</u>	No	N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	<u>1</u>	N/A	1	2	3	4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed

ATTACHMENT E
PERMITS - Permits not needed

ATTACHMENT F
DISPOSAL RECORDS

REGIONAL DISPOSAL COMPANY INTERMODA
PO BOX 51057
LOS ANGELES, CA 90074-1057
(206) 332-7731

INVOICE

TO:

Iliad Inc
1107 Bailey St.
Seattle, WA 98108

INVOICE NO. 0000047802
PAGE 1
DATE Jul-31-14
CUSTOMER NO. 40006 LW-14127
SITE NO.
REFERENCE NO.

SERVICE DATE	TIME	DESCRIPTION	REFERENCE	QTY.	AMOUNT
		Balance forward :			\$10,634.82
		Payments :			\$0.00
		Adjustments :			\$0.00
		Invoices :			\$0.00
25 - Jul	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-911102	28.72 TN	\$1,206.24
25 - Jul	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-911103	28.26 TN	\$1,186.92
25 - Jul	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-911109	27.85 TN	\$1,169.70
25 - Jul	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-911110	25.62 TN	\$1,076.04
25 - Jul	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-911120	30.04 TN	\$1,261.68
25 - Jul	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-911123	32.64 TN	\$1,370.88
25 - Jul	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-911129	28.13 TN	\$1,181.46

Account Status

CURRENT 31 - 60 DAYS 61 - 90 DAYS OVER 90 DAYS

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice.
Payments received after invoice date are not reflected.
To ensure proper credit, please include your account number on your check and include the bottom portion of this invoice. When making payment on multiple accounts, please include the account numbers and the amounts of payment.

TOTAL
THIS INVOICE

**PLEASE PAY THIS
AMOUNT**

We reserve the right to suspend service without notice on any past due account.

Please remit to:

INVOICE NO.
PAGE
DATE
CUSTOMER NO.
SITE NO.
REFERENCE NO.
REMARKS

AMOUNT OF
REMITTANCE

PLEASE RETURN THIS PORTION WITH REMITTANCE

REGIONAL DISPOSAL COMPANY INTERMODA
PO BOX 51057
LOS ANGELES, CA 90074-1057
(206) 332-7731

INVOICE

TO:

Iliad Inc
1107 Bailey St.
Seattle, WA 98108

INVOICE NO. 0000047802
PAGE 2
DATE Jul-31-14
CUSTOMER NO. 40006
SITE NO. LW-14127
REFERENCE NO.

SERVICE DATE	CODE	DESCRIPTION	REFERENCE	QTY	AMOUNT
25 - Jul	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-911140	31.61 TN	\$1,327.62
25 - Jul	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-911141	32.45 TN	\$1,362.90
25 - Jul	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-911160	38.11 TN	\$1,600.62
	VH	SW-CONT SOIL W/FUEL		303.43 TN	

Account Status

CURRENT	31 - 60 DAYS	61 - 90 DAYS	OVER 90 DAYS
\$ 23,378.88	\$ 0.00	\$ 0.00	\$ 0.00

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice.

Payments received after invoice date are not reflected.

To ensure proper credit, please include your account number on your check and include the bottom portion of this invoice. When making payment on multiple accounts, please include the account numbers and the amounts of payment.

TOTAL THIS INVOICE \$12,744.06

PLEASE PAY THIS AMOUNT \$23,378.88

We reserve the right to suspend service without notice on any past due account.

Please remit to:

INVOICE NO. 0000047802
PAGE 2
DATE Jul-31-14
CUSTOMER NO. 40006
SITE NO.
REFERENCE NO.

REGIONAL DISPOSAL COMPANY INTERMODA
PO BOX 51057
LOS ANGELES, CA 90074-1057
(206) 332-7731

AMOUNT OF REMITTANCE

PLEASE RETURN THIS PORTION WITH REMITTANCE

REMARKS

*** Please reference your invoice number on each check stub ***

For Billing Inquiries: Call (206)332-7731 or email:
chartje@republicservices.com

REGIONAL DISPOSAL COMPANY INTERMODA
PO BOX 51057
LOS ANGELES, CA 90074-1057
(206) 332-7731

INVOICE

TO:

Iliad Inc
1107 Bailey St.
Seattle, WA 98108

INVOICE NO. 0000048275
PAGE 1
DATE Dec-31-14
CUSTOMER NO. LW-14127
SITE NO.
REFERENCE NO.

SERVICE DATE	CDU#	BLVD. SEAT NO.	DESCRIPTION	REFERENCE	QTY.	AMOUNT
			Balance forward :			\$23,378.88
			Payments :			\$0.00
			Adjustments :			(\$10,634.82)
			Invoices :			\$0.00
30 - Dec	VH		Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-917367	24.53 TN	\$1,030.26
30 - Dec	VH		Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-917368	27.26 TN	\$1,144.92
30 - Dec	VH		Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-917379	28.35 TN	\$1,190.70
30 - Dec	VH		Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-917380	29.51 TN	\$1,239.42
30 - Dec	VH		Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-917398	27.80 TN	\$1,167.60
30 - Dec	VH		Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-917399	25.46 TN	\$1,069.32
30 - Dec	VH		Vehicle: SOIL SW-CONT SOIL W/FUEL	\$42.00 01-917412	33.48 TN	\$1,406.16

Account Status

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice.
Payments received after invoice date are not reflected.
To ensure proper credit, please include your account number on your check and include the bottom portion of this invoice. When making payment on multiple accounts, please include the account numbers and the amounts of payment.

CURRENT 31 - 60 DAYS 61 - 90 DAYS OVER 90 DAYS

TOTAL
THIS INVOICE

**PLEASE PAY THIS
AMOUNT**

We reserve the right to suspend service without notice on any past due account.

Please remit to:

AMOUNT OF
REMITTANCE

PLEASE RETURN THIS PORTION WITH REMITTANCE

INVOICE NO.
PAGE
DATE
CUSTOMER NO.
SITE NO.
REFERENCE NO.
REMARKS

REGIONAL DISPOSAL COMPANY INTERMODA
PO BOX 51057
LOS ANGELES, CA 90074-1057
(206) 332-7731

INVOICE

TO:

Iliad Inc
1107 Bailey St.
Seattle, WA 98108

INVOICE NO. 0000048275
PAGE 2
DATE Dec-31-14
CUSTOMER NO. 40006 LW-14127
SITE NO.
REFERENCE NO.

SERVICE DATE	TIME	BY	DESCRIPTION	REFERENCE	QTY	AMOUNT
30 - Dec	VH	Vehicle:	SOIL			
		SW-CONT SOIL W/FUEL		\$42.00 01-917413	29.12 TN	\$1,223.04
30 - Dec	VH	Vehicle:	SOIL			
		SW-CONT SOIL W/FUEL		\$42.00 01-917415	16.54 TN	\$694.68
			<u>Material Summary</u>			
	VH	SW-CONT SOIL W/FUEL			242.05 TN	

Account Status

CURRENT \$ 10,166.10
31 - 60 DAYS \$ 0.00
61 - 90 DAYS \$ 0.00
OVER 90 DAYS \$ 12,744.06

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice.
Payments received after invoice date are not reflected.
To ensure proper credit, please include your account number on your check and include the bottom portion of this invoice. When making payment on multiple accounts, please include the account numbers and the amounts of payment.

TOTAL THIS INVOICE \$10,166.10

PLEASE PAY THIS AMOUNT \$22,910.16

We reserve the right to suspend service without notice on any past due account.

INVOICE NO. 0000048275
PAGE 2
DATE Dec-31-14
CUSTOMER NO. 40006
SITE NO.
REFERENCE NO.

Please remit to:
REGIONAL DISPOSAL COMPANY INTERMODA
PO BOX 51057
LOS ANGELES, CA 90074-1057
(206) 332-7731

AMOUNT OF REMITTANCE

PLEASE RETURN THIS PORTION WITH REMITTANCE

REMARKS *** Please reference your invoice number on each check stub ***
For Billing Inquiries: Call (206)332-7731 or email: chartje@republicservices.com

REGIONAL DISPOSAL INTERMODAL
3rd and lander
Seattle, WA

CUSTOMER
333364
Forma Construction
P O Box 11489
Olympia, WA 98508
LW-15088

SITE 01 TICKET # 921665 CELL

WEIGHMASTER
IN - Kim L. OUT - Drinda L.

DATE/TIME IN 04-03-2015 10:46 am DATE/TIME OUT 04-3-2015 10:55 am

VEHICLE SOIL CONTAINER

REFERENCE 5/KRUPP INVOICE

BILL OF LADING

SCALE IN GROSS WEIGHT 110,820 NET TONS 35.09
SCALE OUT TARE WEIGHT 40,640 NET WEIGHT 70,180 INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
35.09	TN	SW-CONT SOIL W/FUEL SEA-TAC/KING				

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK#

REGIONAL DISPOSAL INTERMODAL
3rd and lander
Seattle, WA

CUSTOMER
333364
Forma Construction
P O Box 11489
Olympia, WA 98508
LW-15088

SITE 01 TICKET # 921665 CELL

WEIGHMASTER
IN - Kim L. OUT - Drinda L.

DATE/TIME IN 04-03-2015 10:46 am DATE/TIME OUT 04-3-2015 10:55 am

VEHICLE SOIL CONTAINER

REFERENCE 5/KRUPP INVOICE

BILL OF LADING

SCALE IN GROSS WEIGHT 110,820 NET TONS 35.09
SCALE OUT TARE WEIGHT 40,640 NET WEIGHT 70,180 INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
35.09	TN	SW-CONT SOIL W/FUEL SEA-TAC/KING				

\$42 / ton

NET AMOUNT

TENDERED

CHANGE

CHECK#

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REGIONAL DISPOSAL INTERMODAL
3rd and lander
Seattle, WA --

CUSTOMER
333364
Forma Construction
P O Box 11489
Olympia, WA 98508
LW-15088

SITE 01 TICKET # 921700 CELL

WEIGHMASTER
Drinda L.

DATE/TIME IN 04-03-2015 2:48 pm DATE/TIME OUT 04-3-2015 2:59 pm

VEHICLE SOIL CONTAINER

REFERENCE 5 KRUPP INVOICE

BILL OF LADING

SCALE IN GROSS WEIGHT 110,700 NET TONS 35.05
SCALE OUT TARE WEIGHT 40,600 NET WEIGHT 70,100 INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
35.05	TN	SW-CONT SOIL W/FUEL SEA-TAC/KING				

NET AMOUNT

TENDERED

CHANGE

CHECK#

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IS:F042UPR (07/12)

SIGNATURE

REGIONAL DISPOSAL INTERMODAL
3rd and lander
Seattle, WA --

CUSTOMER
333364
Forma Construction
P O Box 11489
Olympia, WA 98508
LW-15088

SITE 01 TICKET # 921700 CELL

WEIGHMASTER
Drinda L.

DATE/TIME IN 04-03-2015 2:48 pm DATE/TIME OUT 04-3-2015 2:59 pm

VEHICLE SOIL CONTAINER

REFERENCE 5 KRUPP INVOICE

BILL OF LADING

SCALE IN GROSS WEIGHT 110,700 NET TONS 35.05
SCALE OUT TARE WEIGHT 40,600 NET WEIGHT 70,100 INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
35.05	TN	SW-CONT SOIL W/FUEL SEA-TAC/KING				

NET AMOUNT

TENDERED

CHANGE

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REGIONAL DISPOSAL INTERMODAL 3rd and lander Seattle, WA
STOMER 333364 Forma Construction P O Box 11489 Olympia, WA 98508 LW-15088

SITE 01	TICKET # 921682	CELL
WEIGHMASTER IN - JAMIE B. OUT - Drinda L.		
DATE/TIME IN 04-03-2015 12:33 pm	DATE/TIME OUT 04-3-2015 12:44 pm	
VEHICLE SOIL	CONTAINER	
REFERENCE 5 KRUPP		INVOICE
BILL OF LADING		

SCALE IN	GROSS WEIGHT	109,880	NET TONS	34.61	
SCALE OUT	TARE WEIGHT	40,660	NET WEIGHT	69,220	INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
34.6	TN	SW-CONT SOIL W/FUEL SEA-TAC/KING				

NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

S-F042UPR (07/12)

SIGNATURE

REGIONAL DISPOSAL INTERMODAL 3rd and lander Seattle, WA
STOMER 333364 Forma Construction P O Box 11489 Olympia, WA 98508 LW-15088

SITE 01	TICKET # 921682	CELL
WEIGHMASTER IN - JAMIE B. OUT - Drinda L.		
DATE/TIME IN 04-03-2015 12:33 pm	DATE/TIME OUT 04-3-2015 12:44 pm	
VEHICLE SOIL	CONTAINER	
REFERENCE 5 KRUPP		INVOICE
BILL OF LADING		

SCALE IN	GROSS WEIGHT	109,880	NET TONS	34.61	
SCALE OUT	TARE WEIGHT	40,660	NET WEIGHT	69,220	INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
34.61	TN	SW-CONT SOIL W/FUEL SEA-TAC/KING				

NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

S-F042UPR (07/12)

2/21

SIGNATURE

RABANCO COMPANY

2733 3rd AVENUE SOUTH
SEATTLE, WA 98134
(206) 623-4080

TRUCK # 51KRL612D 246348

DISPOSAL RECEIPT

DATE: 4/6/15
TIME OUT: 10:38
DATE: 4/16/15
TIME IN: 10:18

ACCT # 333304 JOB # 15088
CONT # 2
CITY SEATTLE

GROSS
TARE
NET

40680 = 20.34 ton

CUSTOMER #

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

RABANCO COMPANY

2733 3rd AVENUE SOUTH
SEATTLE, WA 98134
(206) 623-4080

TRUCK # 51KRL612D 246348

DISPOSAL RECEIPT

DATE: 4/6
TIME OUT: 12:21
DATE: 12/10
TIME IN: _____

ACCT # 33364 JOB # 15088
CONT # 2
CITY _____

GROSS
TARE
NET

41880 = 20.94 ton

CUSTOMER #

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

ATTACHMENT G
FIELD WORKPLAN OR FIELD SOP

STANDARD OPERATING PROCEDURE (SOP) # 1
Field Screening

1. Calibrate the PID at least daily in accordance with the manufacturers' written instructions.
2. Hold the PID probe to freshly exposed surfaces of the potentially contaminated soil found within the excavation, excavation stockpile, or backhoe bucket
3. Alternatively, place soil in a zip-lock plastic bag or sample jar and screen using a headspace analysis.
4. Document the sample location on a figure and results in the field log.
5. Compare the PID results to the total VOC 60 ppm screening concentration.
6. Based on PID results, determine the nature of soil for waste characterization purposes. If laboratory analysis is needed for waste characterization purposes, see SOP # 7.

STANDARD OPERATING PROCEDURE (SOP) # 2

Construction Excavation of Known Contaminated Areas

1. The EA will notify the EM of the excavation schedule. The EM will notify the responsible tenant, if applicable, of the schedule for excavating the areas of “known” contaminated soil.
2. For the purposes of this document, known contaminated soil is defined as:
 - Soil that has been specifically delineated on contract drawings for the project based on previous field and laboratory investigation.
 - Soil that has been specifically delineated on contract drawings for the project based on proximity to known or suspected contamination sources (i.e., fuel lines and fuel hydrant pits). The excavation limits for these soils can be more generally defined as within *(20 ft)* horizontally and *(10 ft)* vertically of the contamination source, but will be adjusted based on specific field conditions.
3. If additional excavation is required by the construction specification, the RE will verify that the Contractor properly delineates and excavates the areas of known soil contamination, as defined by the Port, and handles soil generated from these areas according to the contract specifications.
4. The EA will screen and sample soil in accordance with SOP #1 and Sampling and Analysis Plan (Appendix B).
5. If soil contains free-draining product, follow SOP # 6.
6. The EA will document in the field logbook the extent of the area containing contaminated soil, the excavation extent, environmental test results, and the actions taken to comply with this work plan.
7. The EA will submit the documentation of the oversight observations, sampling, cleanup actions, and soil disposal tracking in the weekly status report to the EM.
8. The EA will document field observations, sampling results, and cleanup actions on the Construction Field Form upon completion of the project.
9. The EA will coordinate characterization, reuse, and disposal of excavated soil in accordance with SOP #7.

STANDARD OPERATING PROCEDURE (SOP) # 3

Construction Excavation of Unanticipated Soil Contamination

1. The EA will inspect construction areas to identify contamination. In addition, the RE or RE's agent will inform the EA if any excavation appears to encounter unanticipated contaminated soil.
2. The EA will evaluate and screen the soil in accordance with SOP # 1 and document this evaluation in the field logbook.
3. Based on information obtained from field screening and the EA/EM review of available site characterization information, the EA/EM will develop recommendations on how to proceed at the discovery site. The EA/EM will recommend one of four general cleanup actions (unless free-draining product is encountered, see SOP #6) as described below and depicted on the attached Figure A-1. Disposal at other locations will be coordinated through the EM.
 - (A) Soil with PID readings *less than 60 ppm*, for which adequate disposal profile data exist, will be excavated and used as backfill or hauled to an approved Class 2 disposal facility, in accordance with the Soil Handling in Contaminated Areas construction specification.
 - (B) Soil with PID readings *greater than 60 ppm*, for which adequate disposal profile data exist, will be excavated and hauled directly to a Class 3 facility for treatment and disposal, in accordance with the Soil Handling in Contaminated Areas construction specification. Manifesting and tracking of unanticipated contaminated soil for offsite treatment and disposal are discussed in SOP # 7.
 - (C) For locations with adequate evidence to identify the chemicals of concern but without adequate soil profile data
 - The soil will be excavated and stockpiled at the environmental soil stockpile located on the east side of the Snow Equipment Building at the south end of the airfield.
 - After the soil is stockpiled, the EA will sample the soil for profiling as described under Soil Profiling in SOP # 7.
 - The EA will review the analytical results as soon as they are available. Based on the analytical results, the EA will designate the appropriate end-use for the soil (on-site reuse; Class 2 or Class 3 treatment and disposal). The EA will coordinate with the SDC to prepare the proper manifest forms. If profile data and disposal approval are obtained prior to the contractor completing excavation of unanticipated contaminated soil, the

EA will recommend direct haul from the excavation area to the designated receiving facility.

(D) For locations where there is not adequate evidence to identify the chemicals of concern within the unanticipated contaminated soil:

- The EM/EA will notify the RE that an environmental assessment is needed.
 - The RE will direct the Contractor to secure and barricade the discovery site to prevent further activities within the area until the EM/EA conducts a preliminary assessment, and the contamination can be identified and/or appropriate engineering controls can be implemented.
 - The EA will coordinate subsequent sampling, analysis, and data evaluation. The EA will make construction recommendations and will provide a schedule that outlines anticipated completion of these steps to the RE.
 - The EA will sample the soil for profiling as described under Soil Profiling for Disposal in SOP # 7.
4. The EA will complete the assessment of unanticipated contamination and provide a recommended response action to the RE in most cases within 24 hours (or as soon as possible to limit construction delays) after the EM was notified of the discovery.
 5. The EA will document the assessment and the recommendations provided to the RE in the field logbook.
 6. If the unanticipated contaminated soil is likely to be attributed to a non-Port responsible party (e.g., a tenant), the EA, in coordination with the EM, will notify the responsible party(s) of the discovery and the planned response action and response action schedule. The EA/EM will notify the responsible party(s) as soon as possible following initial discovery and development of the recommended response action.
 7. The EA will document in the field logbook the extent of the area containing contaminated soil, the excavation extent, test results, and the actions taken to comply with this work plan.
 8. The EA will submit the documentation of the oversight observations, sampling, cleanup actions, and soil disposal tracking in the weekly status report to the EM.
 9. The EA will document field observations, sampling results, and cleanup actions on the Construction Field Form upon completion of the project.
 10. The EA will coordinate characterization, reuse, and disposal of excavated soil in accordance with SOP #7.

STANDARD OPERATING PROCEDURE (SOP) # 4

Underground Storage Tank Removal

1. The EM is responsible for notifying the responsible party (e.g. a tenant airline) of the schedule for removing the responsible party's underground storage tank (UST) if USTs are to be removed under the project contract.
2. The EA/EM will coordinate with the RE to obtain the removal schedule and provide this information to the responsible party prior to the scheduled removal date.
3. The EA, EM, and RE will review the Contractor's approved UST Removal Plan prior to the start of work.
4. The EM will coordinate with the RE to verify that the proper tank closure notifications are made and that the Contractor performs the specified UST site assessment and prepares a UST removal report. The EM will prepare the UST site assessment report.
5. If soil containing free-draining product are encountered while excavating during UST removal, follow procedures identified in SOP # 6.
6. Follow procedures for soil excavation identified in SOP # 2.
7. Follow procedures for soil handling and disposal identified in SOP # 7.

STANDARD OPERATING PROCEDURE (SOP) # 5

Fuel Line System Removal

1. The EM will notify the responsible party (e.g., a tenant airline) of the schedule for removing the responsible party's fuel lines. The EM will coordinate with the RE to obtain the schedule information and then provide this information to the responsible party prior to the scheduled removal date.
2. The EA, EM, and RE will review the Contractor's approved Fuel Line Removal Plan prior to the start of work. Fuel line system removal will include lines, related fittings, hydrant pits, and related materials.
3. Complete pipeline system removal will include, but not be limited to residual fluid collection and recycling/disposal, line cleaning, inerting, cold cutting, slinging, lifting, asbestos handling, and disposal of piping.
4. During fuel line removal, the RE and/or the EA will observe the exterior surface of the fuel line to determine if coal tar enamel or other coating material potentially containing asbestos is present. The contractor will determine if asbestos is present. If present, the RE will verify that the proper abatement notifications and procedures are followed as described in the contract specifications.
5. Fuel piping remaining beyond the construction limits will be re-inerted and capped at the limits of work by the contractor.
6. If excavation contains free-draining product, follow SOP # 6.
7. The EA will document in the field logbook the removal activities, the excavation extent, test results, and the actions taken to comply with this work plan.
8. The EA will submit the documentation of the oversight observations, sampling, cleanup actions, and soil disposal tracking in the weekly status report to the EM.
9. The EA will document field observations, sampling results, and cleanup actions on the Construction Field Form upon completion of the project.
10. The EA will coordinate characterization, reuse, and disposal of excavated soil in accordance with SOP #7.

STANDARD OPERATING PROCEDURE (SOP) # 6
Removal of Soil Containing Free Draining Product

1. The RE will inform the EM if any excavation appears to encounter soil containing free-draining product.
2. The EA will evaluate whether the soil contains free-draining product and document this evaluation in the field logbook.
3. The EA will evaluate the presence of soil containing free-draining product on the basis of field screening, which will include visual observations and the possible use of a modified paint filter test (typically used to determine the presence of free liquids in a sample of waste prior to hauling or placing the waste in a landfill).
4. If product cannot be observed draining from the soil but the soil appears to contain high concentrations of product, the EA may perform the modified paint filter test on the soil.
5. If soil containing free-draining product is present, the EA will describe a recommended cleanup action to the RE, which will include the steps necessary to remove and “chase” the affected soil.
6. The EA will recommend to either excavate the soil and direct haul the soil to a Class 2 or Class 3 facility or to stockpile the soil at the CSS depending on whether the soil requires additional soil profiling. If additional soil profiling is necessary, the EA will collect the necessary samples at the same time that the field screening is performed.
7. Soil containing free-draining product will be excavated beyond construction limits as described in the contract specifications. The RE will establish the schedule for removing the soil containing the free-draining product and inform the EM/EA of the schedule.
8. The EA will observe the Contractor’s activities during excavation of the soil to observe when the limits of the soil containing free-draining product have been reached and further excavation can be terminated. The EA may use the modified paint filter test to make this determination. Upon making this determination, the EA will advise the RE that the soil containing free-draining product has been removed and further excavation is not necessary.

9. If free product collects in a standing body of water at the bottom of an excavation, the RE will instruct the Contractor to develop a site-specific cleanup action plan and will review and approve the cleanup action plan based on recommendations from the EA. The free product cleanup action plan may involve using sorbent pads or booms to extract the free product and pumping the excavation to a holding tank or an oil-water separator, or other cleanup actions.
10. The EA will document in the field logbook the extent of the area containing free product, the excavation extent, test results, and the actions taken to comply with this work plan.
11. The EA will submit the documentation of the oversight observations, sampling, cleanup actions, and soil disposal tracking in the weekly status report to the EM.
12. The EA will document field observations, sampling results, and cleanup actions on the Construction Field Form upon completion of the project.

STANDARD OPERATING PROCEDURE (SOP) # 7

Soil Handling and Disposal

Soil handling and disposal procedures are discussed below under three separate headings: Profiling; Manifesting and Owner Tracking; and Stockpile Procedures.

Profiling

1. The EA will coordinate with the Port's designated soil disposal coordinator (SDC) to provide the SDC with the necessary data to profile the soil for acceptance at the approved facility. Stacy Fox of the Port (206-787-6182) or her designee is the designated SDC.
2. For soil to be generated from areas of known soil contamination that will be hauled directly to an approved Class 2 or Class 3 facility, the available historical data will be used for soil profiling. The SDC will inform the EA if any recent data exist that would meet the requirements for new sample data described above. If new sample data are necessary, the EA will collect a representative sample of the soil to be excavated from these areas. This sampling will be conducted as early as possible to allow the SDC to complete the manifest preparation process; however, it may be delayed until the Contractor is excavating within these areas to allow a sample to be collected without mobilizing a separate contractor to the site.
3. For soil from unanticipated contaminated areas, the EA will first consult with the EM to determine whether any available data from adjacent or nearby areas exist that could be used for soil profiling, and then discuss soil profiling data needs with the SDC. Based on the results of this discussion, the EA will implement the soil profile sampling in accordance with the Sampling and Analysis Plan. The analytical results from this sampling will be immediately provided to the SDC, who will use the data to complete the manifest preparation process (described below).

Manifesting and Owner Tracking

1. Once the EA informs the SDC that soil from a particular area will be treated and disposed of at the appropriate Class 2 or Class 3 facility and the proper soil profile data are available, the SDC will submit the data along with a signed certification sheet to the receiving disposal facility. The disposal facility will then provide an approved manifest form to the SDC, who will sign the form and make the appropriate number of copies to accompany each truckload to the disposal facility. The manifest will have project information to facilitate proper tracking and billing, including information on the soil generation site, soil owner (e.g., tenant, Port), and a project billing number.
2. The completed manifest forms will be provided to the EA, who will distribute them to the RE. If the soil is to be hauled directly from the excavation site to a Class 2 or Class 3 facility or to PCS, the RE or the PCS representative will provide the form to each truck driver prior to the driver leaving the airport. If the soil is to be hauled to a Class 2 or Class 3 facility from the Environmental Soil Stockpile, the EA will provide explicit directions to the RE on matching the soil with the proper manifests prior to hauling. In no case shall a load of contaminated soil leave the airport without a properly completed manifest.
3. Upon arrival at the disposal facility, the driver will hand the manifest form to the scale house attendant who, after weighing the truck, will provide the driver with a weight tare slip and the original manifest. The driver shall return the tare slip and manifest to the RE or to PCS, who will provide them to the SDC. The tare slip and manifest provide a means for the SDC to verify soil disposal charges.

Environmental Soil Stockpile Procedures

1. The EA will maintain a log of soil (e.g., log of truck loads) entering and leaving the Environmental Soil Stockpile facility.
2. For soil placed in the Environmental Soil Stockpile, the EA will conduct sampling in accordance with the Sampling and Analysis Plan to generate soil profiling data.
3. The EA will provide these data to the SDC to allow the SDC to complete the manifest preparation process.

STANDARD OPERATING PROCEDURE (SOP) # 8
Monitoring Well Decommissioning

1. The EA will coordinate with the RE and the Contractor in locating all wells to be abandoned under the contract.
2. The EM will identify all wells to be abandoned by painting the monitoring well monument cover green; monitoring wells to remain active will be painted white or unmarked. As described in the contract specifications, all wells will be abandoned in accordance with WAC 173-160-460 (1) (i.e., over drilling and then grouting), or WAC 173-160-460 (2) (i.e., filling to the surface with grout), as appropriate, by a licensed well driller or engineer.
3. The EA and the RE will verify that the Contractor follows the proper abandonment procedures. In addition, the EA will coordinate with the RE to verify that the proper well abandonment notifications and reports are submitted to Ecology.
4. The EA will also submit copies of all well abandonment reports to the EM.
5. The EM will submit well abandonment records to Ecology.

STANDARD OPERATING PROCEDURE (SOP) # 9

Unanticipated Underground Storage Tank Removal

1. The RE or RE's agent will inform the EA if an unanticipated underground storage tank is encountered during excavation.
2. The RE shall work with the Contractor to develop a UST Removal Plan for the UST. The Plan shall include a) determination of UST contents, b) removal of tank contents for recycling or disposal if applicable b) tank inspection and decommissioning in accordance with state underground storage tank regulations, and c) preparation of a UST decommissioning report.
3. The EA will notify the EM of the UST discovery.
4. The EM will notify the responsible party (e.g. a tenant airline) as applicable.
5. The EA, EM, and RE will review the Contractor's approved UST Removal Plan prior to the start of work.
6. The EM will coordinate with the RE to verify that the proper tank closure notifications are made and that the Contractor performs the specified UST site assessment and prepares a UST removal report. The EM will prepare the UST site assessment report.
7. If soil containing free-draining product are encountered while excavating during UST removal, follow procedures identified in SOP # 6.
8. Follow procedures for soil excavation identified in SOP # 2.
9. Follow procedures for soil handling and disposal identified in SOP # 7.

ATTACHMENT H
TRUCK LOG WITH PID

Type A/B Impacted Soil Truck Log
Concourse C Vertical Circulation Project

Work Areas	Date	Time	Truck	PID (ppm)	Tons	Destination	Type
CCVC	7/25/2014	0740	424	>20	28.72	Allied Waste	A/B
CCVC	7/25/2014	0740	420	>20	28.26	Allied Waste	A/B
CCVC	7/25/2014	0820	24	>20	27.85	Allied Waste	A/B
CCVC	7/25/2014	0820	28	>20	25.62	Allied Waste	A/B
CCVC	7/25/2014	0925	424	>20	30.04	Allied Waste	A/B
CCVC	7/25/2014	0925	420	>20	32.64	Allied Waste	A/B
CCVC	7/25/2014	1045	28	>20	28.13	Allied Waste	A/B
CCVC	7/25/2014	1140	424	>20	31.61	Allied Waste	A/B
CCVC	7/25/2014	1140	420	>20	32.45	Allied Waste	A/B
CCVC	7/25/2014	1330	424	>20	38.11	Allied Waste	A/B
CCVC	12/30/2014	0730	NA	>10	24.53	Allied Waste	A/B
CCVC	12/30/2014	NA	NA	>10	27.26	Allied Waste	A/B
CCVC	12/30/2014	NA	NA	>10	28.35	Allied Waste	A/B
CCVC	12/30/2014	NA	NA	>10	29.51	Allied Waste	A/B
CCVC	12/30/2014	NA	NA	>10	27.80	Allied Waste	A/B
CCVC	12/30/2014	NA	NA	>10	25.46	Allied Waste	A/B
CCVC	12/30/2014	NA	NA	>10	33.48	Allied Waste	A/B
CCVC	12/30/2014	NA	NA	>10	29.12	Allied Waste	A/B
CCVC	12/30/2014	NA	NA	>10	16.54	Allied Waste	A/B
CCVC	4/3/2015	725	5	>60	35.09	Allied Waste	A/B
CCVC	4/3/2015	1100	5	>60	35.05	Allied Waste	A/B
CCVC	4/3/2015	1430	5	>60	34.61	Allied Waste	A/B
CCVC	4/6/2015	1000	5	>60	20.34	Allied Waste	A/B
CCVC	4/6/2015	1140	5	>60	20.94	Allied Waste	A/B

Total Tons Impacted Soil Hauled to Allied Waste = 691.51

CCVC = Concourse C Vertical Circulation

Allied Waste = Republic Services

ATTACHMENT I
PHOTOS



Gate C2 – Photo 051414-01 – May 14, 2014

Looking south at petroleum-impacted soil in a trench excavation in the eastern portion of the Gate C2 work area.



Gate C2 – Photo 062614-01 – June 26, 2014

Looking south into the elevator pit excavation at Gate C2 – Type B glycol-impacted soil was encountered in the north and west walls of the elevator pit.



Gate C2 – Photo 103014-01 – October 30, 2014

Looking south at a section of 12" fuel line in the west-central portion of the Gate C2 work area that was cut and capped following removal of product and water from the pipe.



Gate C2 – Photo 110514-01 – November 5, 2014

Looking southeast at the IWS re-route trench excavation in the western portion of the Gate C2 work area – glycol-impacted soil (gray staining) was encountered throughout.



Gate C2 – Photo 121114-01 – December 11, 2014

Looking northeast at sections of 12" and 6" fuel lines in the northeast portion of the Gate C2 work area that were cut and capped following removal of product and water from the pipe.



Gate C2 – Photo 121214-01 – December 12, 2014

Looking northeast at the eastern-most grade beam trench in the east-central portion of the Gate C2 work area – petroleum-impacted soil was encountered in the northern section near the fuel lines and glycol-impacted soil was encountered in the southern section.



Gate C10/12 – Photo 021715-01 – February 17, 2015

Looking west a water line installed in the excavated trench in the northern portion of the Gate C10/12 work area. The soil was Type D 'clean' material.



Gate C10/12 – Photo 021915-01 – February 19, 2015

Looking north at an IWS catch basin excavation near the southeast corner of the Gate C10/12 work area. The soil was Type D 'clean' material.



Gate C14 – Photo 060614-01 – June 6, 2014

Looking east at the water line excavation (cut and capped) in the southeast portion of the Gate C14 work area - The soil was Type D 'clean' material.

ATTACHMENT J
WEEKLY EA REPORTS (On Attached CD)

2014 WEEKLY EA REPORTS

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C-2

Start Date: 5/5/2014

End Date: 5/11/2014

Environmental Agent: R. Petrilli, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
NA							

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID
N/A					

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #
N/A					

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C2

Excavation work for the week included two test piles that were installed on 05/06/14 to 16 feet and are being tested on 05/12/14.

The soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=0ppm (Type D 'clean' soil).

Partial panels were removed on 05/09/14; however, no excavation occurred. The surface soil was checked and was brown to gray silty sand with gravel, no staining, no odors, PID=0ppm. Soil conditions may vary with depth.

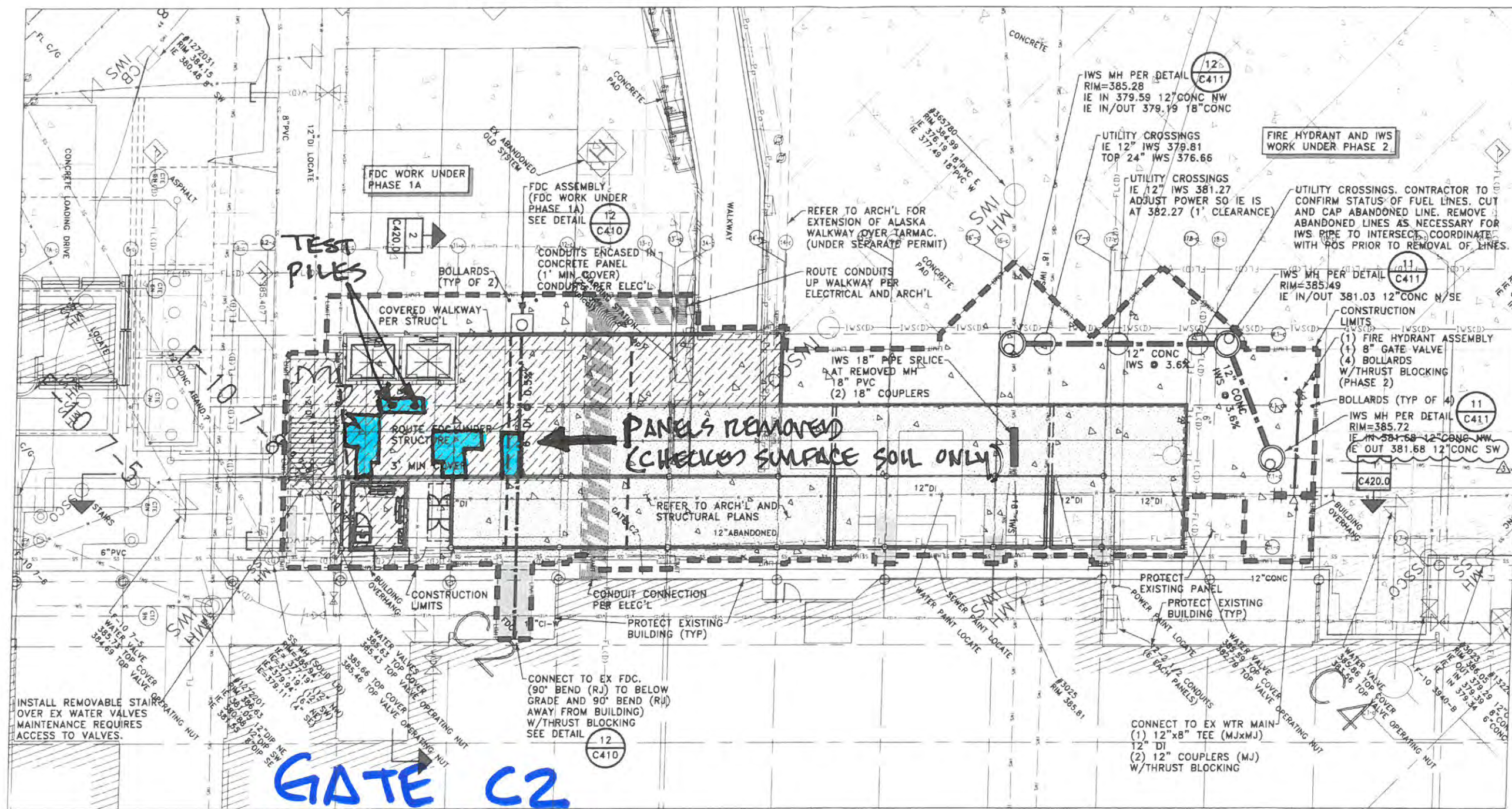
A copy of the pollution prevention plan inspection is also attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



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WWW.OACORCA.COM

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PORTER
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SEATTLE, WA 98101
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F: 206-343-5491
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR/ARCH:
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAJ



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.
1	12-16-13	AR	ADDENDUM NO. 2		
2	12-20-13	AR	ADDENDUM NO. 3		
3	12-27-13	JAJ	ADDENDUM NO. 4		

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAWN BY:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STA-1314 C301.1

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	5/6/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas.

Photo Log

Date	Time	Photo #	Description
5/6/2014	10:28	01	C Concourse Work Area



Photo 01: C Concourse Work Area

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C-2

Start Date: 5/12/2014

End Date: 5/18/2014

Environmental Agent: R. Petrilli, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
A/B	1	15	ESF-CBSW	A/B	1	15	ESF-CBSW

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID
C2-051414-PS-01	R070709A	4.0			

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #
5/14/2014	1205	051414-01			

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C2

Excavation work for the week included three shallow trenches for pile cap footings.

The clean soil encountered was brown silty sand with gravel, no staining, PID=0ppm (Type D 'clean' soil).

The impacted soil encountered was brown to gray silty sand with gravel, some gray staining, strong fuel and glycol odor, PID ranging from 0.5 - 20 ppm (petroleum-impacted soil). Approximately 15 tons of impacted soil was hauled to the Environmental Stockpile Facility Center Bay South Wall (ESF-CBSW) for temporary storage.

Some controlled density fill (CDF) was encountered in the area, mainly in the southeast corner of the site.

A copy of the pollution prevention plan inspection is also attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

Concourse C - Vertical Circulation WK End 5.18.14

C-2

Sample
C2-051414-PS-01
5/14/14
GPS: R070709A

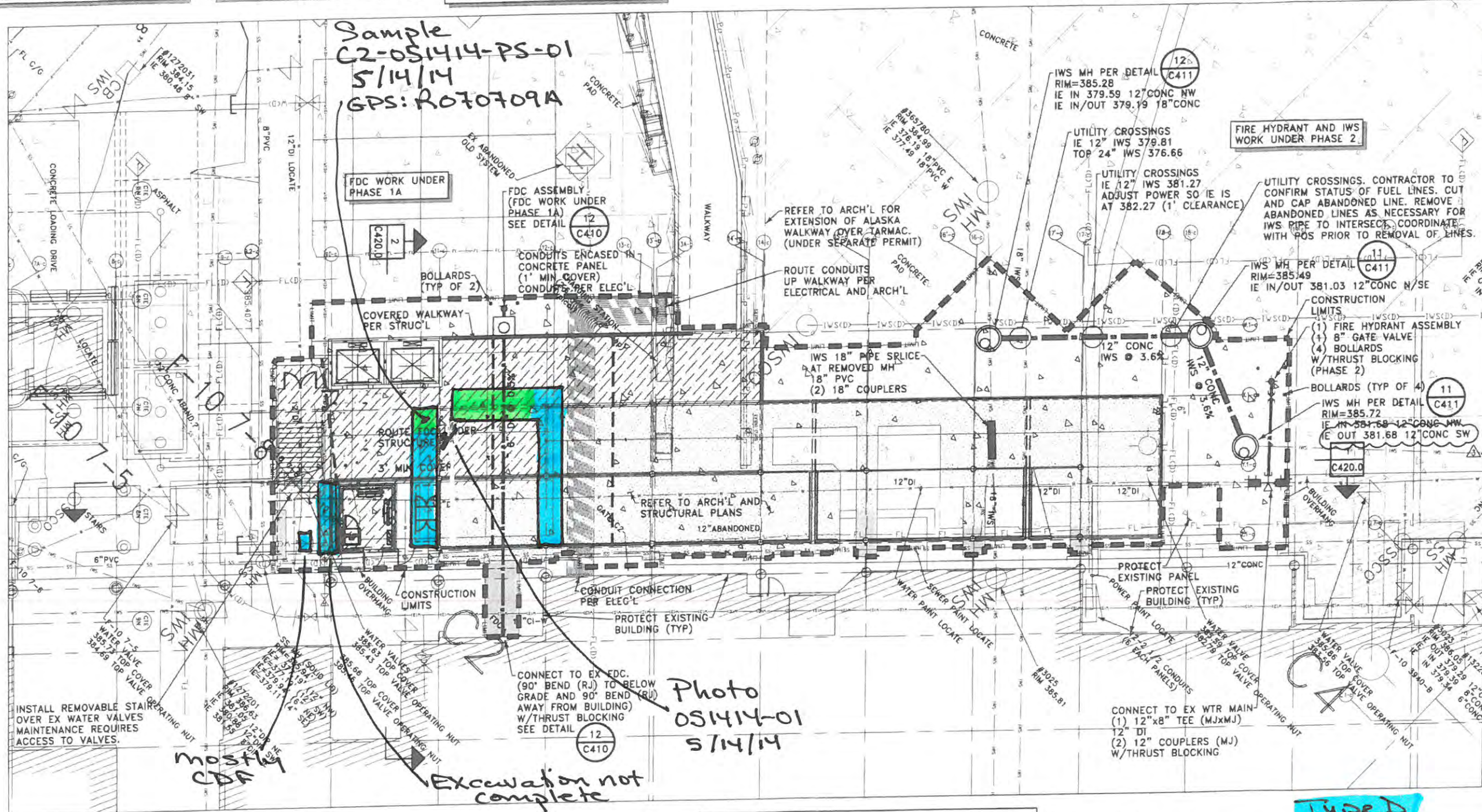


Photo
051414-01
5/14/14

LEGEND

EXISTING

PROPOSED

6\"/>

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL

GATE C2

SCALE: 1\"/>

1\"/>

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STRUCTURAL AND CIVIL
ENGINEERING CORPORATION



NO.	DATE	BY	DESCRIPTION	APPROVED	NO.	DATE	BY	DESCRIPTION	APPROVED
1	12-16-13	JMB	ADDENDUM NO. 2						
2	12-25-13	JMB	ADDENDUM NO. 3						
3	12-27-13	JMB	ADDENDUM NO. 4						

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAWN BY:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port
of Seattle SEA-TAC INTERNATIONAL AIRPORT

PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.1



Photo 051414-01

Looking north at petroleum-impacted soil in south end of the central trench excavation at Gate C-2; impacted soil was hauled to the Environmental Stockpile Facility – Center Bay South Wall (ESF-CBSW) for temporary storage.



Chain of Custody

[illegible]

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	5/13/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas.

Photo Log

Date	Time	Photo #	Description
5/13/2014	07:12	01	C Concourse Work Area



Photo 01: C Concourse Work Area

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gates C-2 and C-14

Start Date: 5/19/2014

End Date: 5/25/2014

Environmental Agent: R. Petrilli, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
A/B	4	15	ESF-CBSW	A/B	5	75	ESF-CBSW

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID
C14-052214-PS-01	NA	235 ppm			

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C2

Work at C2 for the week included installation of the micro-piles. All soil generated from the micro-piles mirrored the soil that was excavated in the trenches the week before; and the small amount of soil generated was left in the excavation areas.

Gate C14

The work at C14 included: 1) trench excavations for grade beams; and 2) excavation around a water main and fire hydrant.

The clean soil encountered was brown silty sand with gravel, no staining, PID=0ppm (Type D 'clean' soil).

Glycol (de-icing fluid) impacted soil encountered in the trenches was brown to gray silty sand with gravel, some gray staining, strong glycol odor, PID ranging from 0 - 1.9 ppm. The small amount of petroleum impacted soil encountered in the northern-most trench was

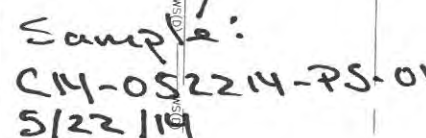
brown to gray silty sand with gravel, some gray staining, jet fuel odor, PID ranging from 20 to 235ppm. A profile soil sample was

collected from the petroleum impacted soil location to characterize the soil for disposal purposes. Approximately 60 tons of glycol and petroleum impacted soil was hauled to the Environmental Stockpile Facility Center Bay South Wall (ESF-CBSW) for temporary storage. A copy of the pollution prevention plan inspection is also attached.

Attached Map X Yes No

CONTRACTOR TO POTHOLE IMPACTED
UTILITIES TO CONFIRM LOCATION, DEPTH AND
SIZE PRIOR TO START OF CONSTRUCTION.
UTILITIES SHOWN FOR REFERENCE ONLY.

Type A



NEW PCCP PANEL TO ASPHALT - SEE DETAIL

1"=10'-0"

10 5 0 10 20

Scale Feet

WORK PROJECT NO.	104784
CONSULTANT'S NO.	2011079
PORT OF SEATTLE NO.	STIA-1314 C301.3



Chain of Custody

Laboratory Number:

[illegible]

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	5/20/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas.

Photo Log

Date	Time	Photo #	Description
5/20/2014	08:34	01	C Concourse Work Area

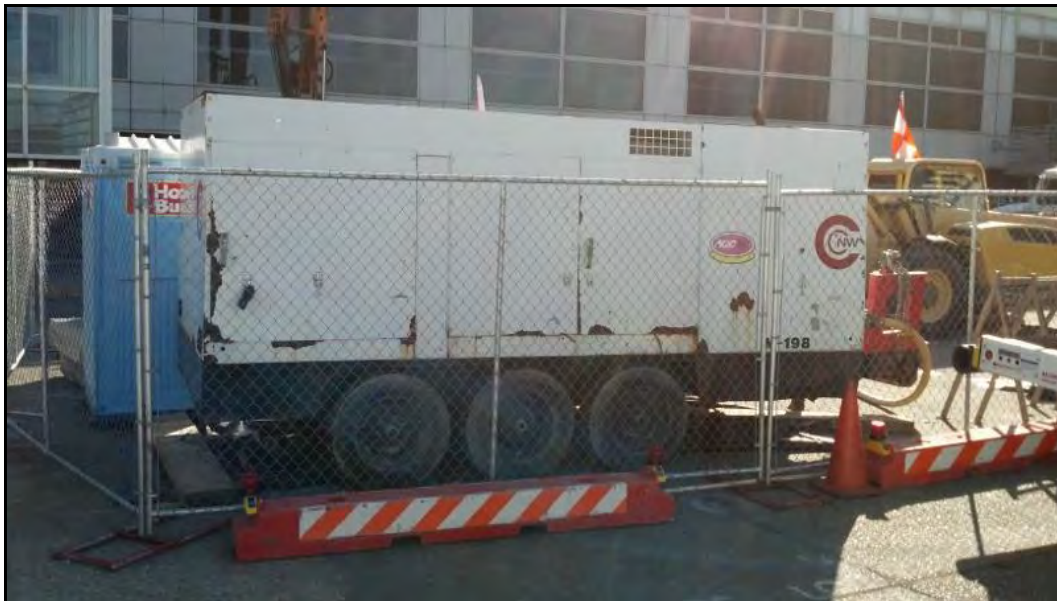


Photo 01: C Concourse Work Area

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gates C-2 and C-14

Start Date: 5/26/2014

End Date: 6/1/2014

Environmental Agent: R. Petrilli, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
A/B	1	15	ESF-CBSW	A/B	6	90	ESF-CBSW
D	NA	NA	Silica Pit	D	NA	NA	Silica Pit

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C2

Work at C2 for the week included cleaning the drilling tailings from the trench areas and a small excavation of Type B impacted soil (diesel) in the center trench at C-2. The Type B soil was temporarily stockpiled onsite and was covered with plastic and secured. The small pile remained on site at the end of the week and will be hauled offsite when additional excavation work at C-2 occurs.

Gate C14

The work at C14 included: 1) trench excavations for grade beams; 2) excavation around a water main and fire hydrant; and 3) cleaning up drilling tailings from the trenches.

The clean soil encountered was brown silty sand with gravel, no staining, PID=Oppm (Type D 'clean' soil).

Glycol (de-icing fluid) and fuel impacted soil (Type B) encountered in the trenches was brown to gray silty sand with gravel, some gray staining, strong glycol odor and slight fuel odor.

Approximately 15 tons of glycol and petroleum impacted soil was hauled to the Environmental Stockpile Facility Center Bay South Wall (ESF-CBSW) for temporary storage.

A small hydraulic fluid release occurred on 05/27/14 and cleanup actions are summarized in the attached spill report.

A copy of the pollution prevention plan inspection is also attached.

Attached Map X Yes No

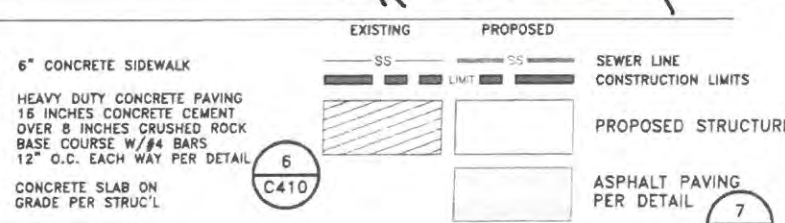
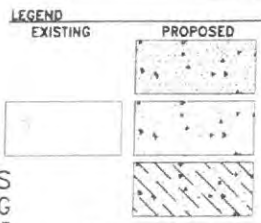
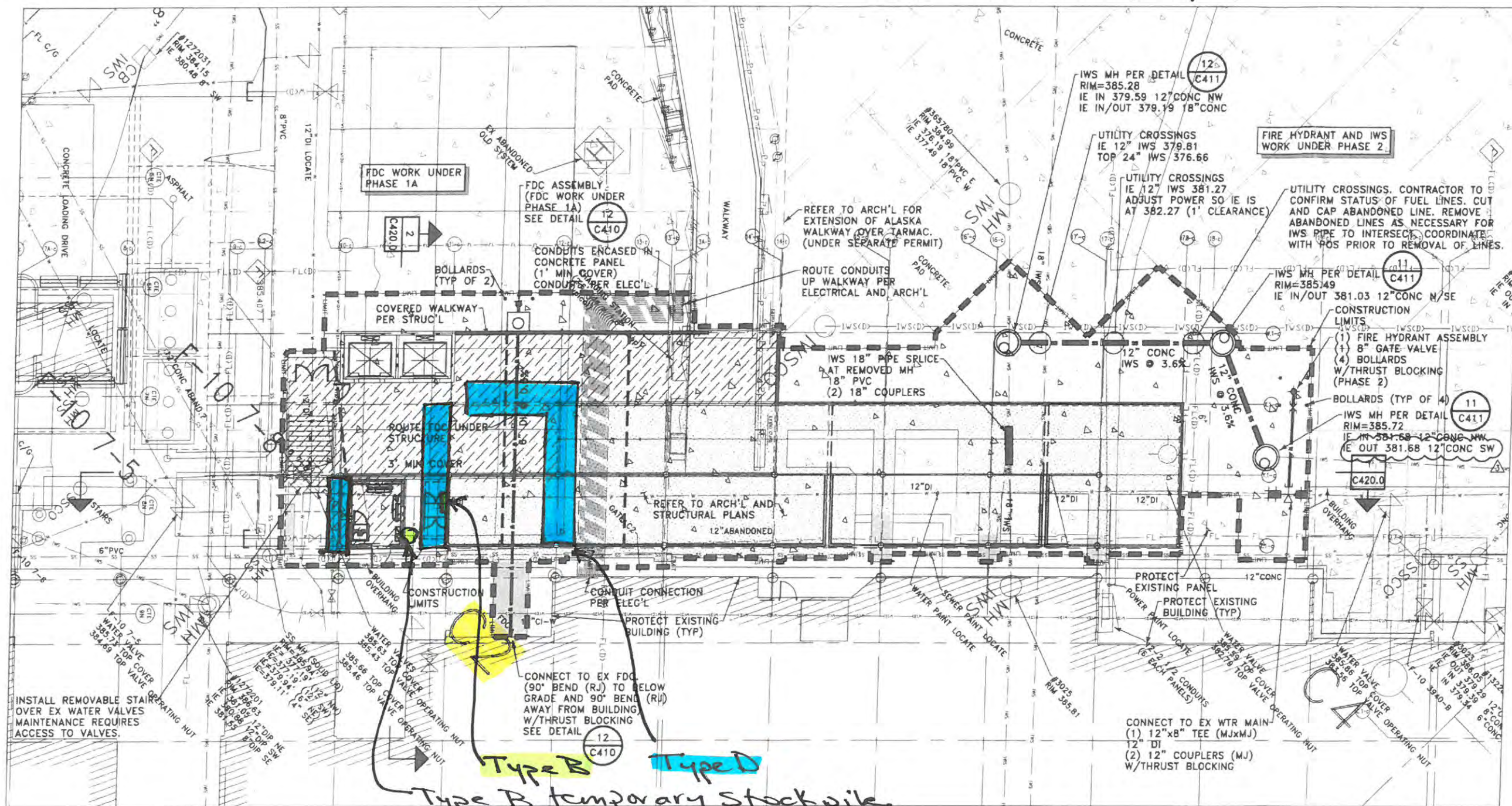
Concourse C Vertical Circulation C2

WK End 06/01/14

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



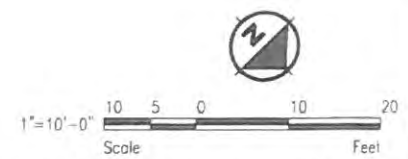
JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C2

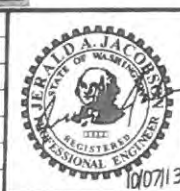
SCALE: 1" = 10'-0"



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F: 206/343-5891



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	12-16-13	JMB	ADDENDUM NO. 2						
2	12-20-13	JMB	ADDENDUM NO. 3						
3	12-27-13	JMB	ADDENDUM NO. 4						

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAFTER
SCALE
DATE
CHECKED/APPROVED BY
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT

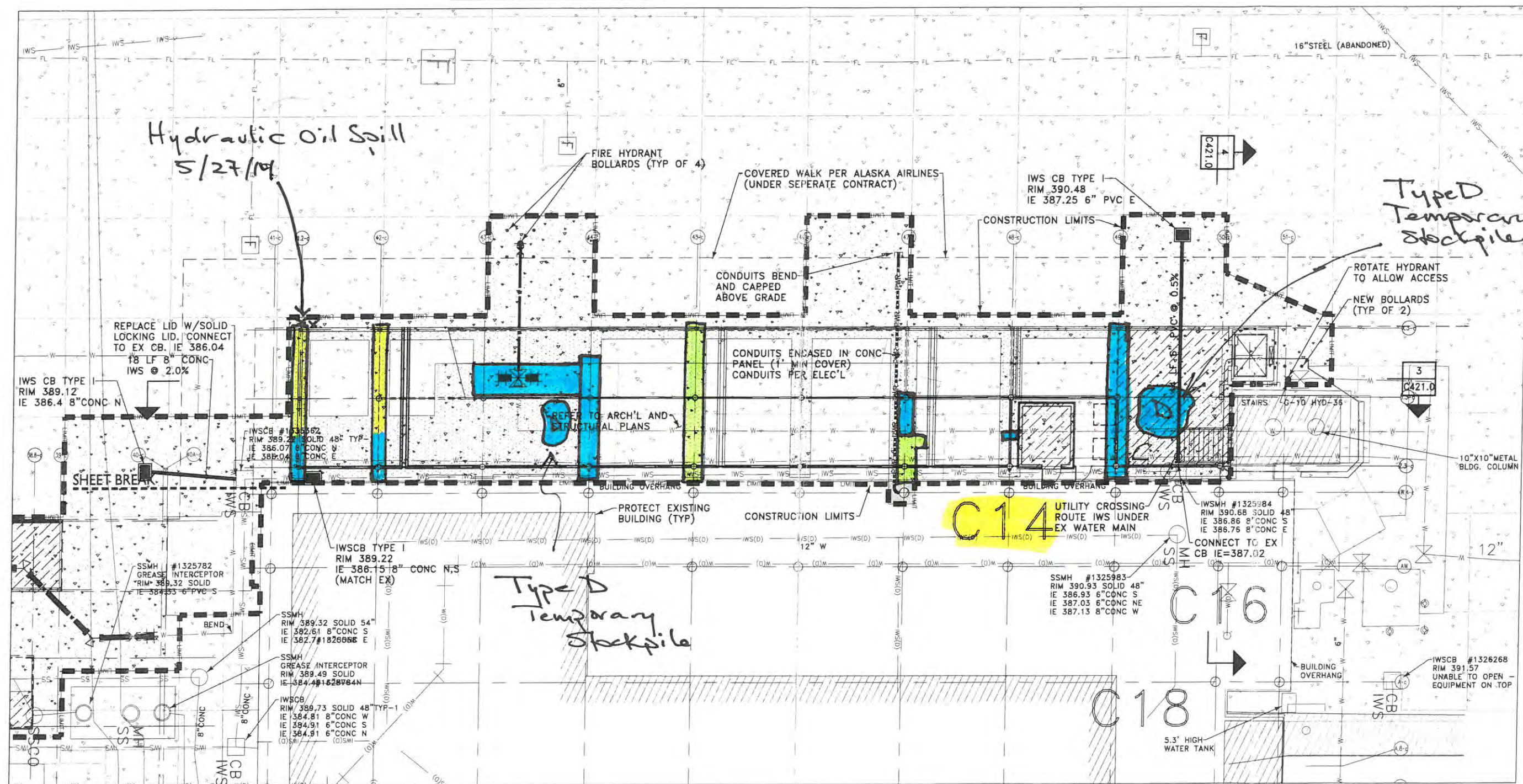
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade

SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STA-1314 C301.1

CONTRACTOR TO POT HOLE IMPACTED
UTILITIES TO CONFIRM LOCATION, DEPTH AND
SIZE PRIOR TO START OF CONSTRUCTION.
UTILITIES SHOWN FOR REFERENCE ONLY.

Concourse C Vehicle Circulation C14
wk End 06/01/14



LEGEND

EXISTING	PROPOSED

6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING	PROPOSED
----------	----------

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES.

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL (

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL
GATE C14

SCALE: 1" = 10'-0"



STIA SPILL REPORT
Form D-2

For all spills, complete this form and return to:
Surface Water Program Manager, Port of Seattle

Email: fox.s@portseattle.org

Or FAX: (206) 439-6617

1. Date & Time Spill was Reported: 05/27/14 @1000
2. Estimated Time Spill Occurred: 0950
3. Name & Phone # of Person whom First Reported Spill: Chris Heimbigner (POS Inspector) (206) 255-7815
4. Party Responsible and Cause for Spill: Cascade Drilling – Hydraulic line leak
5. Type of Material Spilled (Describe Odor/color, if unknown): Hyd. Fluid
6. Estimated Quantity or Dimensions of Area Covered by Spill: 1'x1' (on concrete)
7. Exact Location of Spill: West end of southern-most trench at C-14
8. Did Material Reach a Catch Basin? Yes ☐ No ☒
9. If Yes, Catch Basin(CB) ID number (If No, Nearest CB to Spill): _____
10. If Yes, Drain Type: IWS ☐ Storm ☐ Sanitary Sewer ☐
11. Did Material Soak into Soil? Yes ☐ No ☒ Estimated Quantity (gal): 0.1
12. Weather Conditions at Site: Sunny/Fair
13. Action Taken (Description of Initial Containment/Recover Procedures): Crew used floor dry and sorbent pads to remove hydraulic fluid from pavement
14. POS-FD Run #, if applicable: _____
15. Name of Individual Preparing Report: G. Ferris
16. Date & Time Report was Completed: 06-05-14 @ 1500

Check below upon completion

- x All POS notifications made POS-FD, AV/ENV, AV/M
- x Spill Form Completely filled out and sent. Date & Time Sent: 06-05-14 @ 1630

Below Information to be completed by Aviation Environmental

1. Property(ies)/Stream(s) Impacted? _____
2. Did Material Leave Property? Yes ☐ No ☐ Estimated Quantity (gal): _____
3. Types of Countermeasures Implemented? _____
4. Agencies Contacted? _____ Report #: _____
5. Resolution/COMMENTS: _____

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	5/26/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas. The impacted soil stockpiles have been covered when not in active use.

Photo Log

Date	Time	Photo #	Description
5/26/2014	08:32	01	Impacted Soil Stockpiles

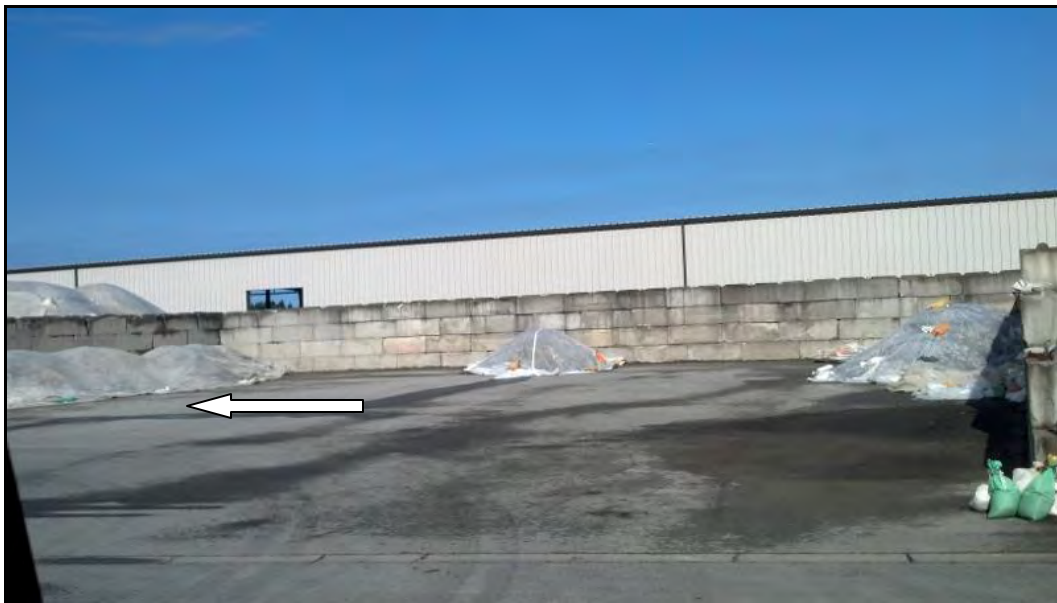


Photo 01: Impacted Soil Stockpiles

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C-14

Start Date: 6/2/2014

End Date: 6/8/2014

Environmental Agent: R. Petrilli, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	NA	Silica Pit	A/B	6	90	ESF-CBSW
				D	NA	NA	Silica Pit

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

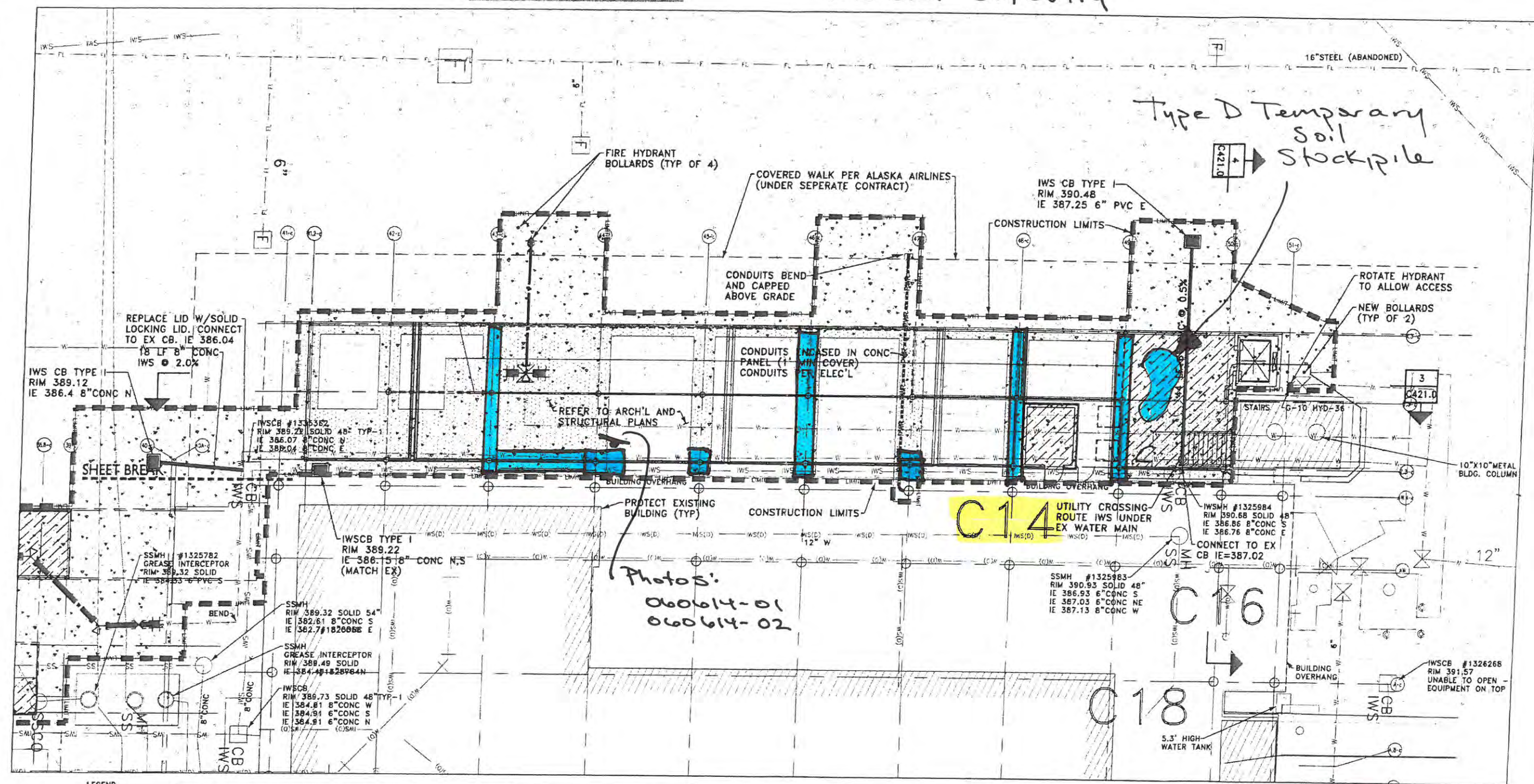
Gate C14

The work at C14 included: 1) trench excavations for grade beams; and 2) excavation around a water main (mostly hand-digging).
 Only clean soil was encountered during the week and was brown silty sand with gravel, no staining, PID=0ppm (Type D 'clean' soil).
 The clean soil was temporarily stockpiled onsite.
 A copy of the pollution prevention plan inspection is also attached.

Attached Map X Yes No

CONTRACTOR TO POTHOLE IMPACTED
UTILITIES TO CONFIRM LOCATION, DEPTH AND
SIZE PRIOR TO START OF CONSTRUCTION.
UTILITIES SHOWN FOR REFERENCE ONLY.

Concourse C Vertical Circulation C14
WK End 06/08/14



1"=10'-0"

10 5 0 10 20

Scale Feet



WORK PROJECT NO.	104784
CONSULTANT'S NO.	2011079
PORT OF SEATTLE NO.	STIA-1314 C301.3



Photo 060614-01

Looking east-southeast at the water line at Gate C14 that was tapped into and found to be under pressure. The trench was lined with plastic and water was pumped to IWS.



Photo 060614-02

Looking east-southeast at the water line at Gate C14 that was eventually cut and capped.

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	6/2/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas. The impacted soil stockpiles have been covered when not in active use.

Photo Log

Date	Time	Photo #	Description
6/2/2014	12:03	01	Impacted Soil Stockpile



Photo 01: Impacted Soil Stockpile

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C-14

Start Date: 6/9/2014

End Date: 6/15/2014

Environmental Agent: R. Petrilli, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	2	15	Kangley Pit	A/B	6	90	ESF-CBSW
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C14

The work at C14 included additional excavation for a water pipe from the T-Valve following the water line incident on 06-09-14.
Only clean soil was encountered during the week and was brown silty sand with gravel, no staining, PID=0ppm (Type D 'clean' soil).
Approximately 30 tons of clean soil that was temporarily stockpiled onsite was hauled offsite.
A copy of the pollution prevention plan inspection is also attached.

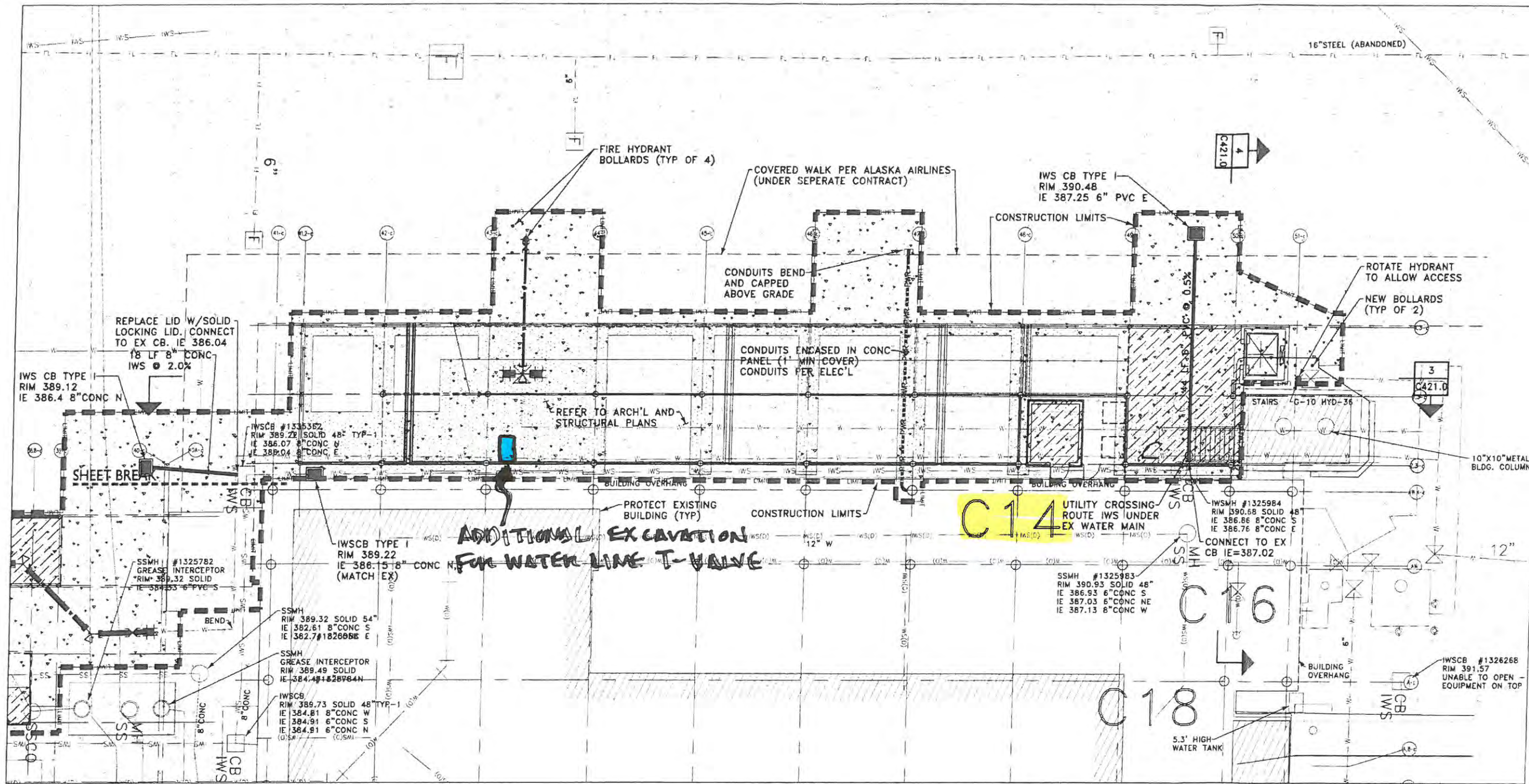
Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS
DURING CONSTRUCTION TO ENSURE REQUIRED
MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING
STAIRS, GATES, AND PEDESTRIAN ACCESS
STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED
UTILITIES TO CONFIRM LOCATION, DEPTH AND
SIZE PRIOR TO START OF CONSTRUCTION.
UTILITIES SHOWN FOR REFERENCE ONLY.

Concourse C Vertical Circulation C14
WK End 6/15/14



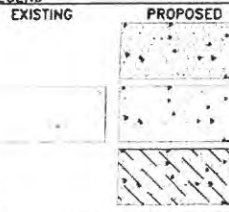
ADDITIONAL EXCAVATION
FOR WATER LINE T-VALVE

C14 UTILITY CROSSING
ROUTE IWS UNDER
EX WATER MAIN

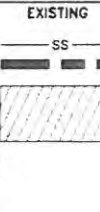
C16

C18

LEGEND



6\"/>



6\"/>

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C14
SCALE: 1" = 10'-0"



1"=10'-0"
Scale 10 5 0 10 20
Feet

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SEE SHEET C001 FOR OVERALL LEGEND

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F: 206.343.5491
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR./ARCH.
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAJ



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAWER
DATE
CHECKED/APPROVED BY:
SCP

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C14

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STA-1314 C301.3

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	6/10/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas. The impacted soil stockpiles have been covered when not in active use.

Photo Log

Date	Time	Photo #	Description
6/10/2014	09:34	01	Impacted Soil Stockpile



Photo 01: Concourse C Operations (6/10/14)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gates C-2 and C-14

Start Date: 6/16/2014

End Date: 6/22/2014

Environmental Agent: R. Petrilli, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	6	90	ESF-CBSW
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C2

The work at C2 included excavating a trench to connect a water line to a fire hydrant.

Only clean soil was encountered during the week and was brown silty sand with gravel, no staining, PID=0ppm (Type D 'clean' soil).

Gate C14

The work at C14 included: 1) additional excavation for a catch basin in the southeast corner of the work area; and 2) hand digging out the micropile spoils from the grade beam trenches.

Only clean soil was encountered during the week and was brown silty sand with gravel, no staining, PID=0ppm (Type D 'clean' soil).

A copy of the pollution prevention plan inspection is also attached.

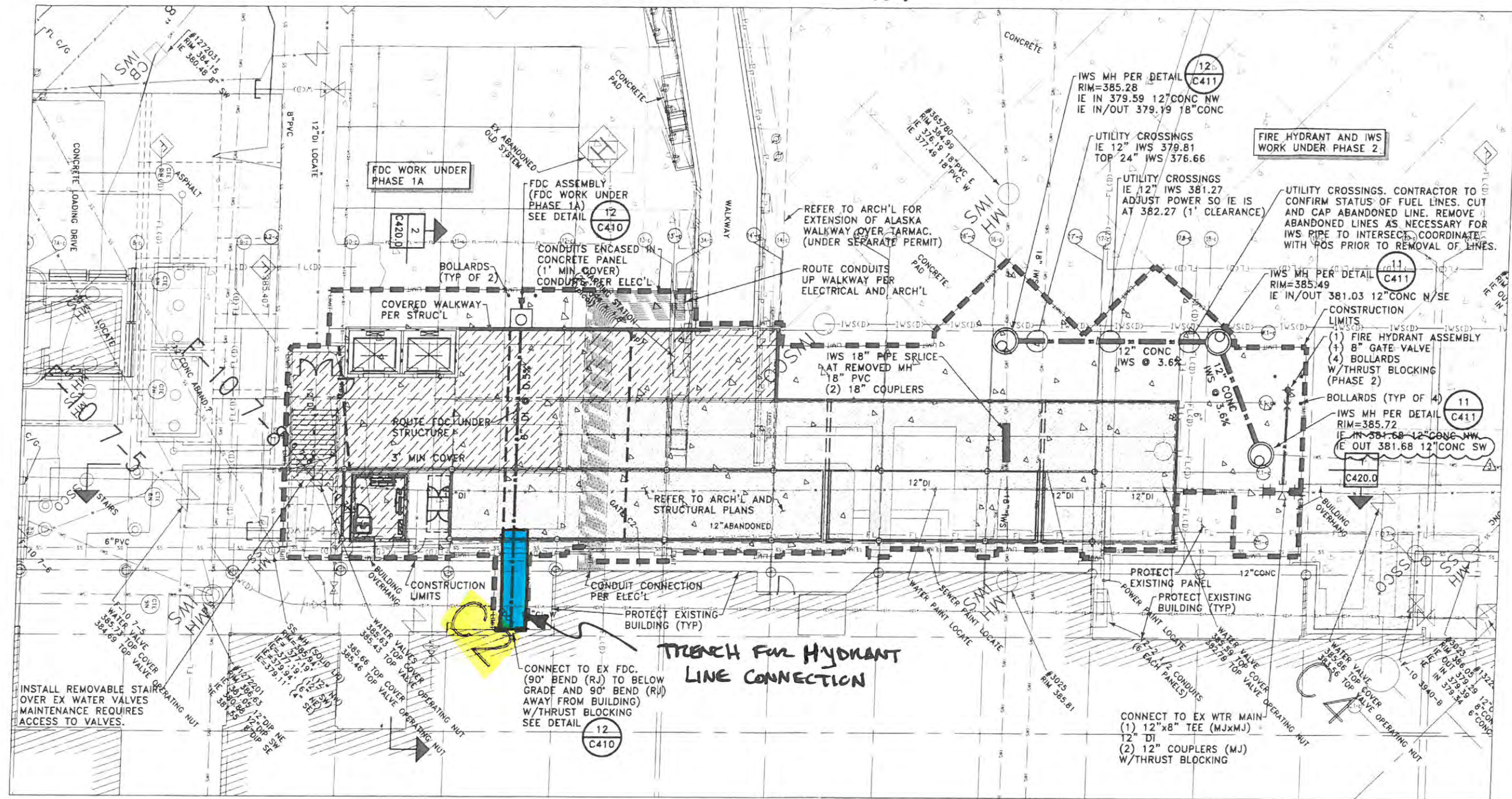
Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

Concourse C Vertical Circulation (C2) WK End 6.22.14



INSTALL REMOVABLE STAIRS OVER EX WATER VALVES. MAINTENANCE REQUIRES ACCESS TO VALVES.

CONNECT TO EX FDC (90° BEND (RJ) TO BELOW GRADE AND 90° BEND (RJ) AWAY FROM BUILDING) W/THRUST BLOCKING SEE DETAIL

TRENCH FOR HYDRANT LINE CONNECTION

CONNECT TO EX WTR MAIN (1) 12"x8" TEE (MJxMJ) 12" DI (2) 12" COUPLERS (MJ) W/THRUST BLOCKING

LEGEND

EXISTING

PROPOSED

6" CONCRETE SIDEWALK

HEAVY DUTY CONCRETE PAVING 18 INCHES CONCRETE CEMENT OVER 8 INCHES CRUSHED ROCK BASE COURSE W/4 BARS 12" O.C. EACH WAY PER DETAIL

CONCRETE SLAB ON GRADE PER STRUC'L

EXISTING

PROPOSED

SEWER LINE

CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL
GATE C2

SCALE: 1" = 10'-0"

1" = 10'-0"
Scale Feet

CALL 2 DAYS BEFORE YOU DIG
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ENGINEERING CORPORATION



REVISIONS				
NO.	DATE	BY	DESCRIPTION	APP'D
1	12-16-13	JAL	ADDendum NO. 2	
2	12-20-13	JAL	ADDendum NO. 2	
3	12-27-13	JAL	ADDendum NO. 4	

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APP'D BY:
SCP

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO:
104784
CONSULTANT'S NO:
2011079
PORT OF SEATTLE NO:
STIA-1314 C301.1

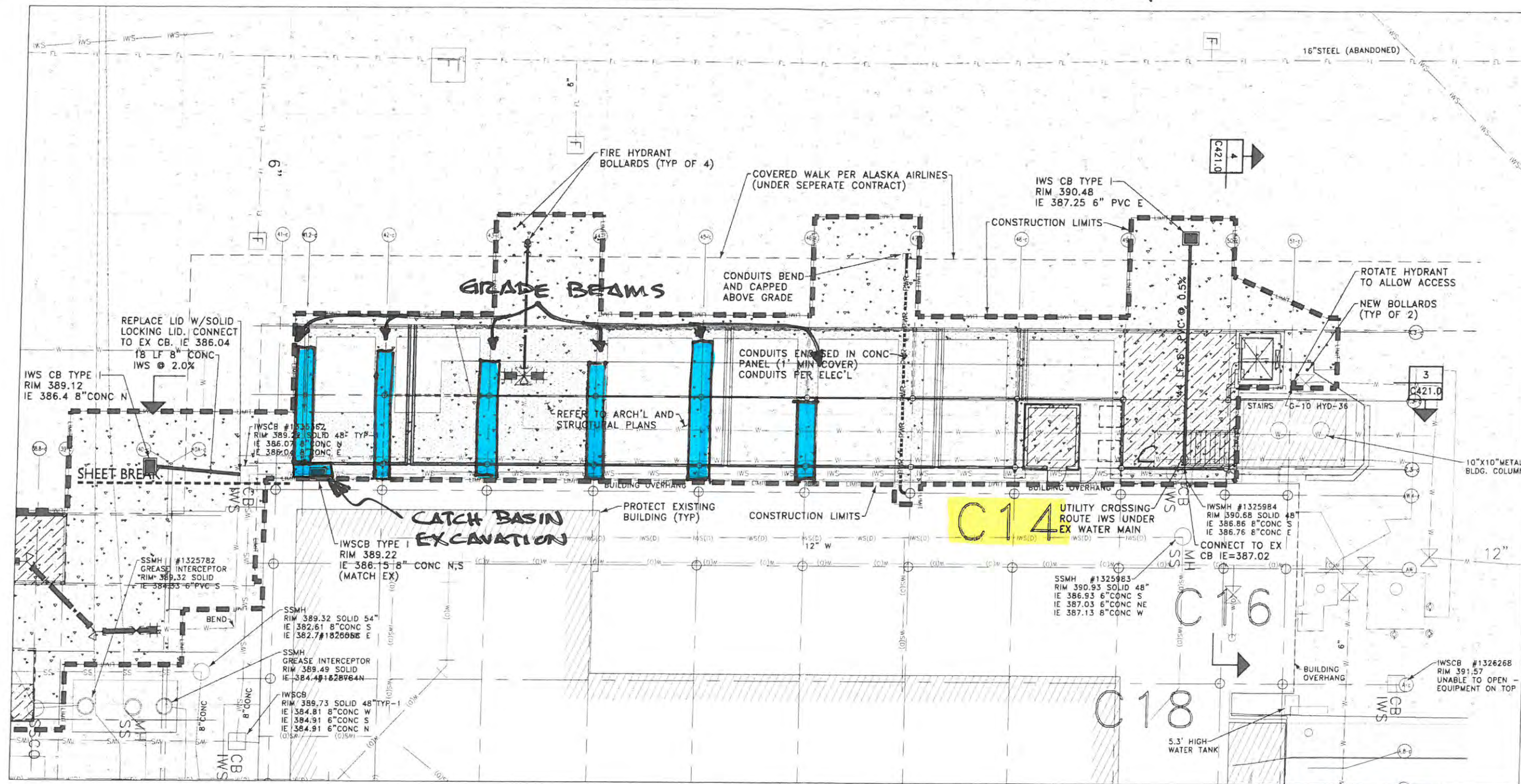
CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

Concourse C Vehicle Circulation (C14)

WK END 6.22.14



LEGEND

EXISTING

PROPOSED

6\"/>

HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12\"/>

CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL

GATE C14

SCALE: 1" = 10'-0"

Type D - CLEAN



1"=10'-0" 10 5 0 10 20
Scale Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

OAC

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F: 206/343-5691
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ENGINEERING CORPORATION

PROJECT ENGR./ARCH.
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAJ



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAWER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C14

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.3

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	6/17/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas. The impacted soil stockpiles are covered when not in active use.

Photo Log

Date	Time	Photo #	Description
6/17/2014	10:31	01	Concourse C Work Area



Photo 01: Concourse C Work Area (6/17/14)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gates C-2 and C-14

Start Date: 6/23/2014

End Date: 6/29/2014

Environmental Agent: R. Petrilli, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
A	1	15	ESF-CBSW	A/B	13	195	ESF-CBSW
B	6	15	ESF-CBSW	D	NA	NA	Various
D	4	15	Cedar Shores				

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #
6/26/2014	1314	Photo 062614-01			

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C2

The work at C2 for the week included: 1) excavating for the FDC trench and vault; 2) excavating for the elevator shaft; 3) excavating two small footings; and 4) grading excavation in the northern portion of the site.

Type A impacted soil was encountered in the FDC vault excavation and was described as gray silty sand with gravel, gray staining, fuel odor, PID=105ppm). Approximately 15 tons of Type A impacted soil was hauled to the stockpile facility for temporary storage.

Type B impacted soil was encountered in the north and west portions of the elevator pit excavation and was described as brown to gray silty sand with gravel, some gray staining, glycol odor, PID<10ppm). Approximately 90 tons of Type B impacted soil was hauled to the stockpile facility for temporary storage.

Type D 'clean' soil was encountered in all other excavation areas during the week. Approximately 60 tons was hauled to Cedar Shores.

Gate C14

The work at C14 included cleaning out the northern grade beams trench excavations.

Only clean soil was encountered during the week and was brown silty sand with gravel, no staining, PID=0ppm (Type D 'clean' soil).

A copy of the pollution prevention plan inspection is also attached.

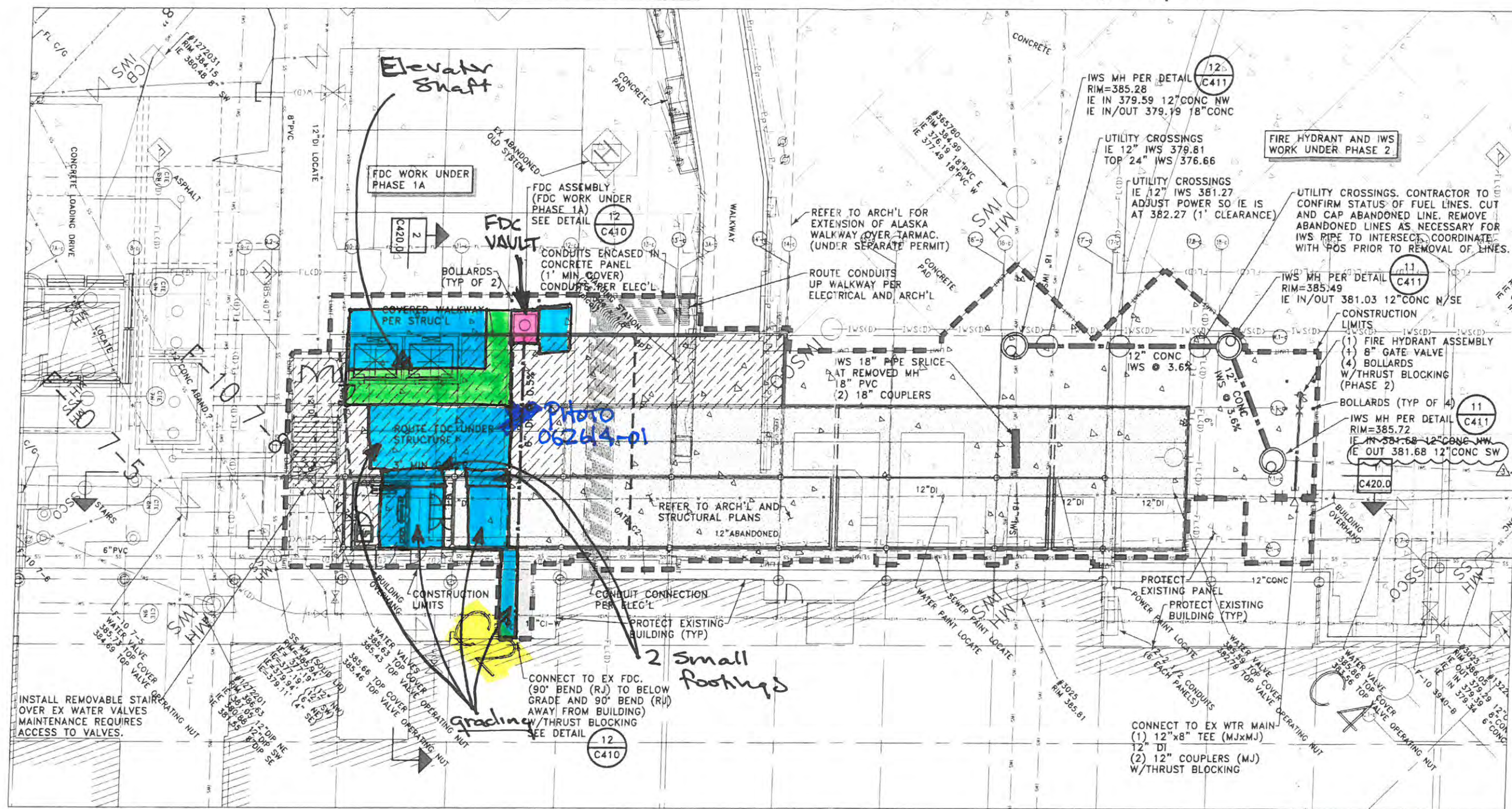
Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

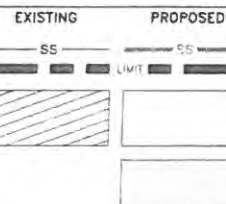
Concourse C Vertical Circulation C2 WK End 6/29/14



LEGEND
EXISTING
PROPOSED



6\"/>



SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C2
SCALE: 1" = 10'-0"

Type D
Type A
Type B

1"=10'-0"
Scale 10 5 0 10 20 Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

SEE SHEET C001 FOR OVERALL LEGEND

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SEATTLE, WA 98101
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ENGINEERING CORPORATION



REVISIONS				
NO.	DATE	BY	DESCRIPTION	APP'D
1	12-18-13	JMB	ADDENDUM NO. 2	
2	12-22-13	JMB	ADDENDUM NO. 3	
3	12-27-13	JMB	ADDENDUM NO. 4	

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

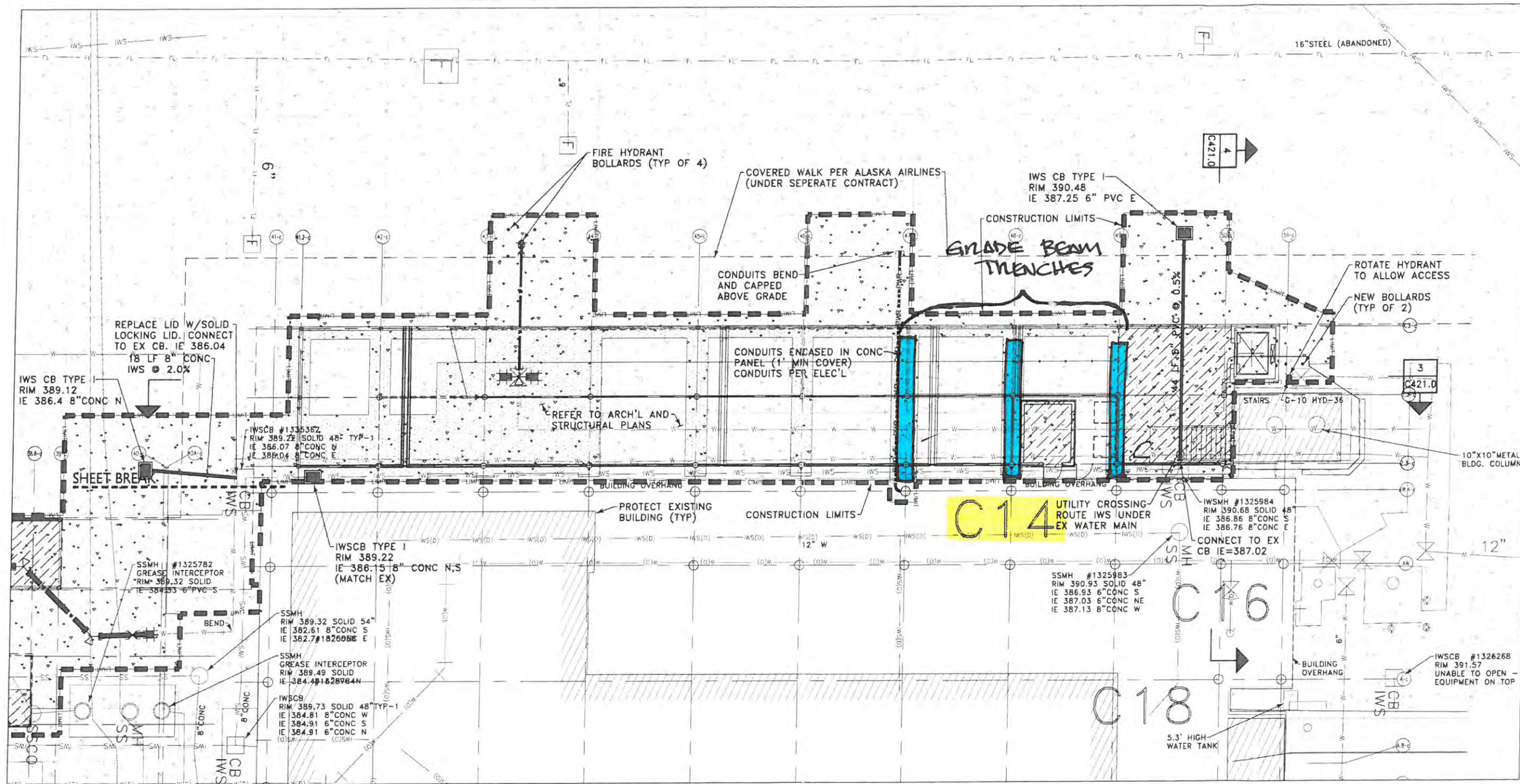
WORK PROJECT NO.:
104784
CONSULTANT'S NO.:
2011079
PORT OF SEATTLE NO.:
STIA-1314 C301.1

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

Concourse C Vertical Circulation C14 WK End 6/29/14

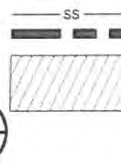


LEGEND
EXISTING
PROPOSED



6\"/>

EXISTING
PROPOSED



SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C14
SCALE: 1\"/>

Type D



1\"/>

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

SEE SHEET C001 FOR OVERALL LEGEND

OAC

701 DEXTER AVENUE NORTH
SUITE 301
SEATTLE, WA 98109-4392
P: 206 285 4300
F: 206 285 4377
WWW.OACVCS.COM

**COUGHLIN
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LUNDEEN**

413 PINE STREET, SUITE 300
SEATTLE, WA 98101
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STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR./ARCH.
CPL
DESIGNER
JMB
DRAWN BY
PRW
SCALE
AS SHOWN
DATE
10/07/13
CHECKED BY
JMB
CHECKED/APPROVED BY
JAJ



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAWN BY
SCALE
DATE
CHECKED/APPROVED BY
SCP

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C14

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.3



Photo 062614-01

Looking southeast into the elevator pit excavation at Gate C-2; Type B glycol impacted soil was encountered along the north and west walls (left and front of photo).

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784		
Construction Prime Contractor	FORMA Construction		
Inspection Date	6/25/2014		
HM Inspector, Company	Dan Rohde, DH Environmental Inc.		
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org	
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org	
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org	
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org	
	Caleb Peats, FORMA Construction	calebp@formacc.com	
	Brad Shuman, FORMA Construction	brads@formacc.com	
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com	
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org	
Observations			
<p>Actions Required/Comments:</p> <p>BMPS are implemented as required at the construction and laydown areas. The impacted soil stockpiles are covered when not in active use.</p>			
Photo Log			
Date	Time	Photo #	Description

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gates C2 and C10/12

Start Date: 6/30/2014

End Date: 7/6/2014

Environmental Agent: R. Petrilli, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	3	15	Cedar Shores	A/B	13	195	ESF-CBSW
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C2

The work at C2 for the week included hauling clean soil (that was stockpile on site) offsite to Cedar Shores (approximately 15 tons).

Gate C10/12

The work at C10/12 included a trench excavation for a new water main in front of Gate C12.

The soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=0 ppm (Type D 'clean' soil).

Approximately 30 tons of the Type D 'clean' soil encountered in the water main trench excavation was hauled to Cedar Shores.

A copy of the pollution prevention plan inspection is also attached.

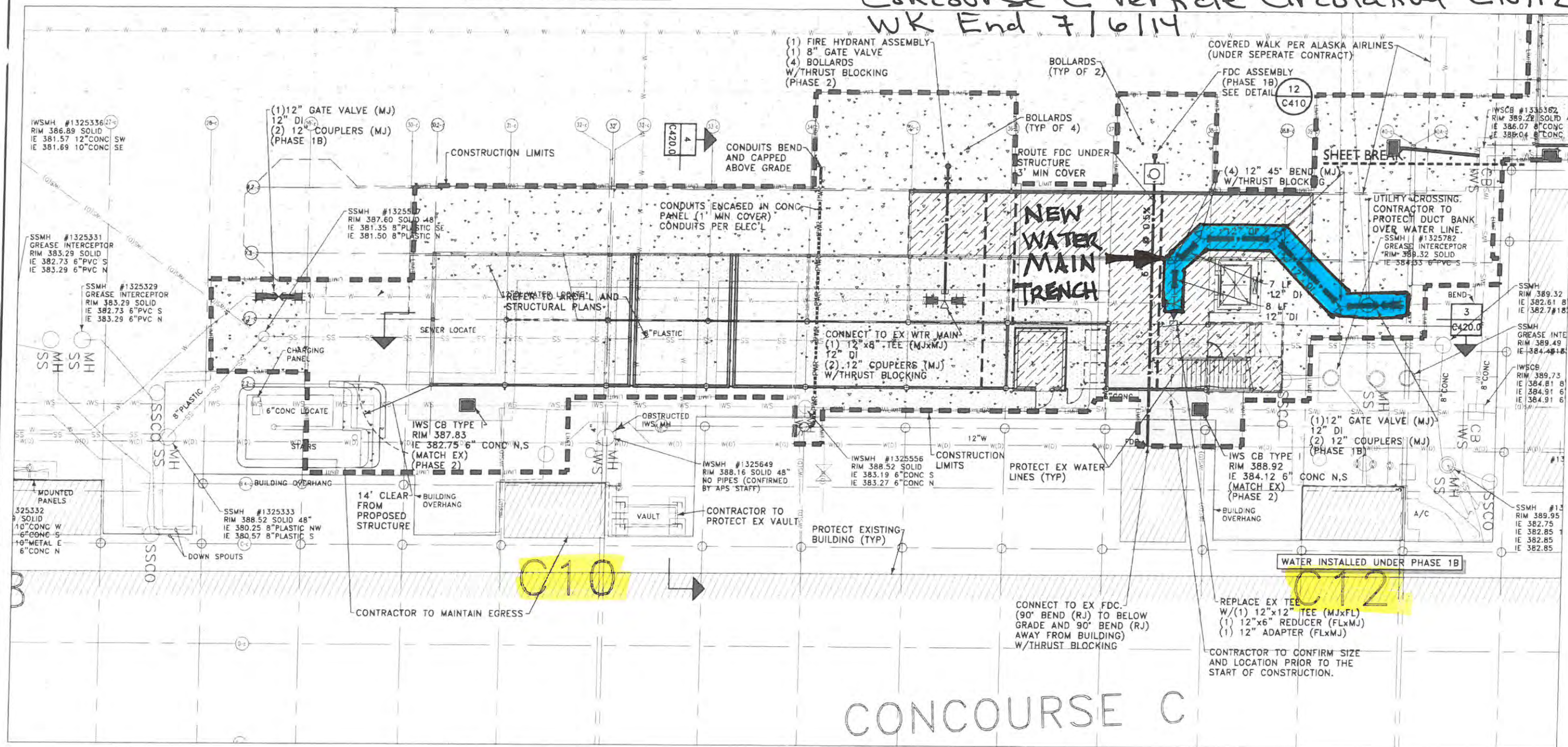
Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

Concourse C Vertical Circulation C10/C12
WK End 7/6/14



LEGEND

EXISTING

PROPOSED

6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12

SCALE: 1" = 10'-0"

1" = 10'-0"
Scale 10 5 0 10 20
Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

SEE SHEET C001 FOR OVERALL LEGEND

OAC
301 DEXTER AVENUE NORTH
SUITE 301
SEATTLE, WA 98109 4342
P: 206 285 4326
F: 206 285 4371
WWW.OAC-DC.COM

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413 PINE STREET - SUITE 300
SEATTLE, WA 98101
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F: 206 343-3691
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR/ARCH:
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAU

REVISIONS
NO. DATE BY DESCRIPTION
APPROVED NO. DATE BY DESCRIPTION
APPROVED

REVISIONS
NO. DATE BY DESCRIPTION
APPROVED NO. DATE BY DESCRIPTION
APPROVED

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port
of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.2

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	7/1/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas. The impacted soil stockpiles are covered when not in active use.

Photo Log

Date	Time	Photo #	Description
7/1/2014	09:02	01	Concourse C Work Area



Photo 01: Concourse C Work Area

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gates C10/12 & C14

Start Date: 7/7/2014

End Date: 7/13/2014

Environmental Agent: R. Petrilli, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
B	2	15	ESF-SBNW	A/B	13	195	ESF-CBSW
D	5	15	Cedar Shores	B	2	15	ESF-SBNW
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID
C10/12-070914-PS-01	NA	4.0			

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C10/12

The work at C10/12 for the week included: 1) excavating for grade beams; and 2) excavating for a water valve tie-in location. Suspect impacted soil was encountered in the grade beam excavations and was described as brown silty sand with gravel, no staining, sharp odor, PID=4.0ppm. Type D 'clean' soil was encountered in the water valve tie-in excavation. ~30 tons of Type B impacted soil was hauled to the Environmental Stockpile Facility - South Bay North Wall (ESF-SBNW), and is being stored separate from the previous impacted soil sent to the ESF-CBSW for temporary storage until lab results are received. ~15 tons of Type D 'clean' soil was hauled to Cedar Shores.

Gate C14

The work at C14 included excavating for a new elevator shaft. The soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=1.0 ppm (Type D 'clean' soil). ~60 tons of the Type D 'clean' soil encountered in the elevator shaft excavation was hauled to Cedar Shores.

A copy of the pollution prevention plan inspection is also attached.

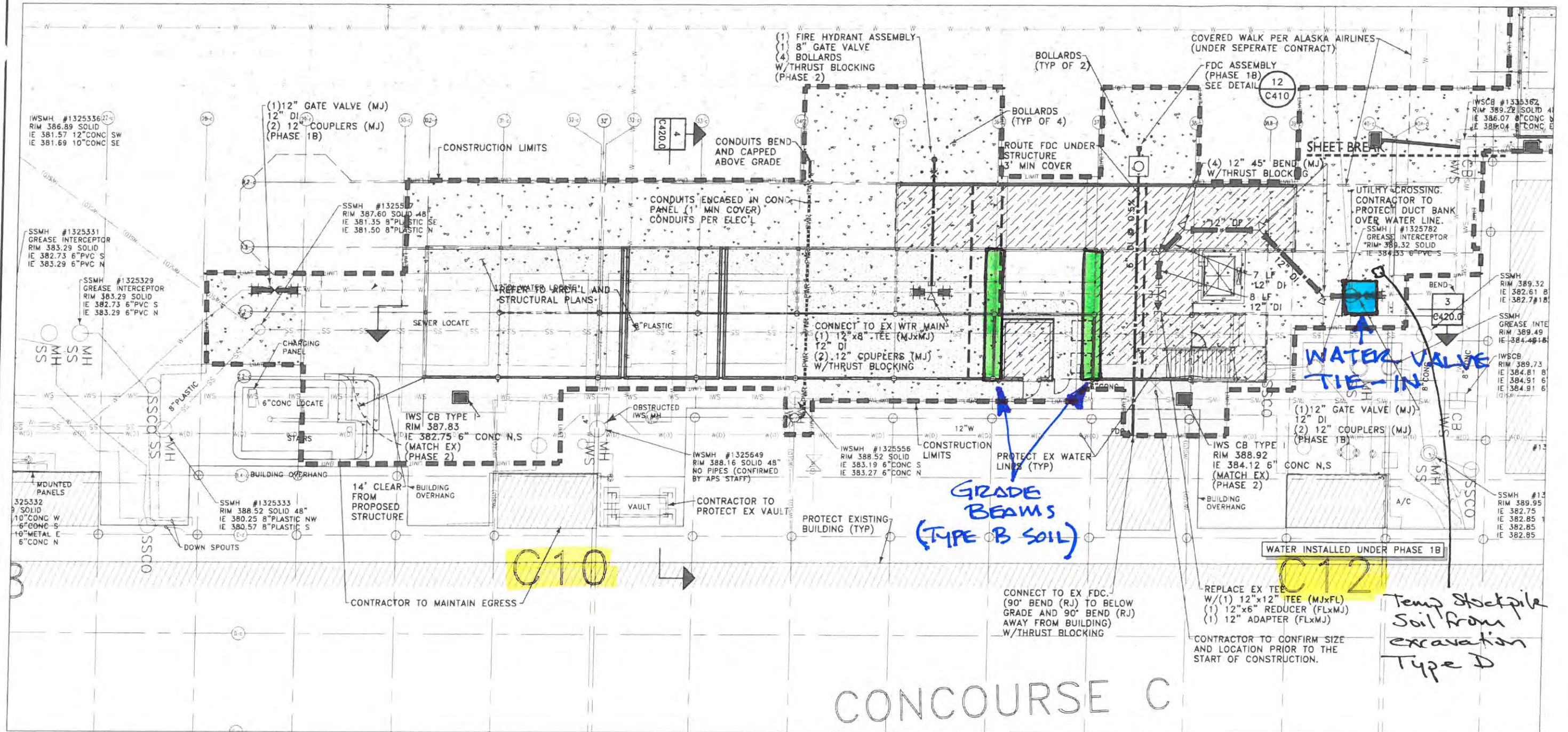
Attached Map ☒ Yes ☐ No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

Concourse C Vertical Circulation C10/12



LEGEND

EXISTING

PROPOSED

EXISTING

PROPOSED

6\"/>

HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12\"/>

CONCRETE SLAB ON
GRADE PER STRUC'L

SS

SS

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12

SCALE: 1" = 10'-0"

WK End 7/13/14



1" = 10'-0"
Scale 10 5 0 10 20
Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

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SEATTLE, WA 98101
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REVISIONS							
NO.	DATE	BY	DESCRIPTION	APPROVED	NO.	DATE	BY

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT

PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.2

CONTRACTOR TO POTHOLE IMPACTED
UTILITIES TO CONFIRM LOCATION, DEPTH AND
SIZE PRIOR TO START OF CONSTRUCTION.
UTILITIES SHOWN FOR REFERENCE ONLY.

16" STEEL (ABANDONED)

FIRE HYDRANT BOLLARDS (TYP OF 4)

COVERED WALK PER ALASKA AIRLINES (UNDER SEPERATE CONTRACT)

IWS CB TYPE I
RIM 390.48
IE 387.25 6" PVC E

CONSTRUCTION LIMITS

CONDUITS BEND AND CAPPED ABOVE GRADE

CONDUITS ENCASED IN CONC PANEL (1" MIN COVER)
CONDUITS PER ELEC'L

REFER TO ARCH'L AND STRUCTURAL PLANS

PROTECT EXISTING BUILDING (TYP)

CONSTRUCTION LIMITS

12" W

UTILITY CROSSING ROUTE IWS UNDER EX WATER MAIN

SSMH #1325983
RIM 390.93 SOLID 48"
IE 386.93 6" CONC S
IE 387.03 6" CONC NE
IE 387.13 8" CONC W

SSMH #1325984
RIM 390.68 SOLID 48"
IE 386.86 8" CONC S
IE 386.76 8" CONC E

CONNECT TO EX CB IE=387.02

SSMH #1325782
GREASE INTERCEPTOR
RIM 389.32 SOLID
IE 384.23 6" PVC S

SSMH #1325362
RIM 389.22 SOLID 48" TYP-1
IE 386.07 8" CONC N
IE 386.04 8" CONC E

IWSCB TYPE I
RIM 389.22
IE 386.15 8" CONC N,S (MATCH EX)

SSMH #1325782
GREASE INTERCEPTOR
RIM 389.32 SOLID
IE 384.23 6" PVC S

SSMH #1325983
RIM 390.93 SOLID 48"
IE 386.93 6" CONC S
IE 387.03 6" CONC NE
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IE 386.76 8" CONC E

CONNECT TO EX CB IE=387.02

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CONNECT TO EX CB IE=387.02

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SSMH #1325362
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IE 386.04 8" CONC E

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IE 386.15 8" CONC N,S (MATCH EX)

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RIM 390.93 SOLID 48"
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IE 387.03 6" CONC NE
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SSMH #1325984
RIM 390.68 SOLID 48"
IE 386.86 8" CONC S
IE 386.76 8" CONC E

CONNECT TO EX CB IE=387.02

SSMH #1325782
GREASE INTERCEPTOR
RIM 389.32 SOLID
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SSMH #1325362
RIM 389.22 SOLID 48" TYP-1
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IE 386.04 8" CONC E

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IE 386.15 8" CONC N,S (MATCH EX)

SSMH #1325782
GREASE INTERCEPTOR
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RIM 390.93 SOLID 48"
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RIM 390.68 SOLID 48"
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IE 386.15 8" CONC N,S (MATCH EX)

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GREASE INTERCEPTOR
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IE 384.23 6" PVC S

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IE 386.86 8" CONC S
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CONNECT TO EX CB IE=387.02

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GREASE INTERCEPTOR
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SSMH #1325362
RIM 389.22 SOLID 48" TYP-1
IE 386.07 8" CONC N
IE 386.04 8" CONC E

IWSCB TYPE I
RIM 389.22
IE 386.15 8" CONC N,S (MATCH EX)

SSMH #1325782
GREASE INTERCEPTOR
RIM 389.32 SOLID
IE 384.23 6" PVC S

SSMH #1325983
RIM 390.93 SOLID 48"
IE 386.93 6" CONC S
IE 387.03 6" CONC NE
IE 387.13 8" CONC W

SSMH #1325984
RIM 390.68 SOLID 48"
IE 386.86 8" CONC S
IE 386.76 8" CONC E

CONNECT TO EX CB IE=387.02

SSMH #1325782
GREASE INTERCEPTOR
RIM 389.32 SOLID
IE 384.23 6" PVC S

SSMH #1325362
RIM 389.22 SOLID 48" TYP-1
IE 386.07 8" CONC N
IE 386.04 8" CONC E

IWSCB TYPE I
RIM 389.22
IE 386.15 8" CONC N,S (MATCH EX)

SSMH #1325782
GREASE INTERCEPTOR
RIM 389.32 SOLID
IE 384.23 6" PVC S

SSMH #1325983
RIM 390.93 SOLID 48"
IE 386.93 6" CONC S
IE 387.03 6" CONC NE
IE 387.13 8" CONC W

SSMH #1325984
RIM 390.68 SOLID 48"
IE 386.86 8" CONC S
IE 386.76 8" CONC E

CONNECT TO EX CB IE=387.02

SSMH #1325782
GREASE INTERCEPTOR
RIM 389.32 SOLID
IE 384.23 6" PVC S

SSMH #1325362
RIM 389.22 SOLID 48" TYP-1
IE 386.07 8" CONC N
IE 386.04 8" CONC E

IWSCB TYPE I
RIM 389.22
IE 386.15 8" CONC N,S (MATCH EX)

SSMH #1325782
GREASE INTERCEPTOR
RIM 389.32 SOLID
IE 384.23 6" PVC S

SSMH #1325983
RIM 390.93 SOLID 48"
IE 386.93 6" CONC S
IE 387.03 6" CONC NE
IE 387.13 8" CONC W

SSMH #1325984
RIM 390.68 SOLID 48"
IE 386.86 8" CONC S
IE 386.76 8" CONC E

CONNECT TO EX CB IE=387.02

ELEVATOR SHAFT

WORK PROJECT NO.	104784
CONSULTANT'S NO.	2011079
PORT OF SEATTLE NO.	STIA-1314 C301.3



OnSite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: <u>Part of Seattle</u>		Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input checked="" type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days) <input type="checkbox"/> (other) _____		Laboratory Number:																					
Project Number: <u>104784</u>		Number of Containers																							
Project Name: <u>CONVERSE C. VERTICAL CIRCULATION</u>		Date Sampled		Time Sampled		Matrix																			
Project Manager: <u>Stacy Fox</u>		Date Sampled		Time Sampled		Matrix																			
Sampled by: <u>R. Petrelli</u>		Date Sampled		Time Sampled		Matrix																			
Lab ID	Sample Identification	Date Sampled		Time Sampled		Matrix		NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx + UGT-A	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
	<u>C.10/12-070914-PS-01</u>	<u>07/04/14</u>		<u>0915</u>		<u>SOIL</u>		<u>6</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			<u>X</u>					
Signature: <u>[Signature]</u>		Company: <u>ASPECT</u>		Date: <u>07/04/14</u>		Time: <u>1500</u>		Comments/Special Instructions: <u>EMAIL RESULTS TO: FOX.S@portseattle.org</u> <u>Robbins, D@portseattle.org</u> <u>gferms@aspectconsulting.com</u> <u>ACCT-14010</u> <u>ORCA-3480</u> <u>SUBCLASS-0001</u> <u>PROJECT-104784</u> <u>PCVNT-POS</u> <u>ACTIVITY-CONSTRUCT</u> <u>RESTYPE-EPT10</u> <u>RESCAT-EPT11</u>																	
Relinquished																									
Received																									
Relinquished																									
Received																									
Relinquished																									
Received																									
Reviewed/Date		Reviewed/Date		Reviewed/Date		Reviewed/Date		Chromatograms with final report <input type="checkbox"/>																	

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	7/8/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas. The impacted soil stockpiles are covered when not in active use.

Photo Log

Date	Time	Photo #	Description
7/8/2014	09:58	01	Concourse C Work Area



Photo 01: Concourse C Work Area

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gates C2 & C10/12

Start Date: 7/14/2014

End Date: 7/20/2014

Environmental Agent: R. Petrilli, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	4	15	Cedar Shores	A/B	13	195	ESF-CBSW
				B	2	15	ESF-SBNW
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C2

The work at C2 for the week included excavating for the communications/electrical ductbank conduit.

The soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID<10 ppm (Type D 'clean' soil).

~60 tons of the Type D 'clean' soil encountered in the ductbank excavation was hauled to Cedar Shores.

Gate C10/12

The work at C10/12 included some additional minor excavation around the water main.

The soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=<10 ppm (Type D 'clean' soil) and was

temporarily stockpiled on site.

A copy of the pollution prevention plan inspection is also attached.

Attached Map ☒ Yes ☐ No

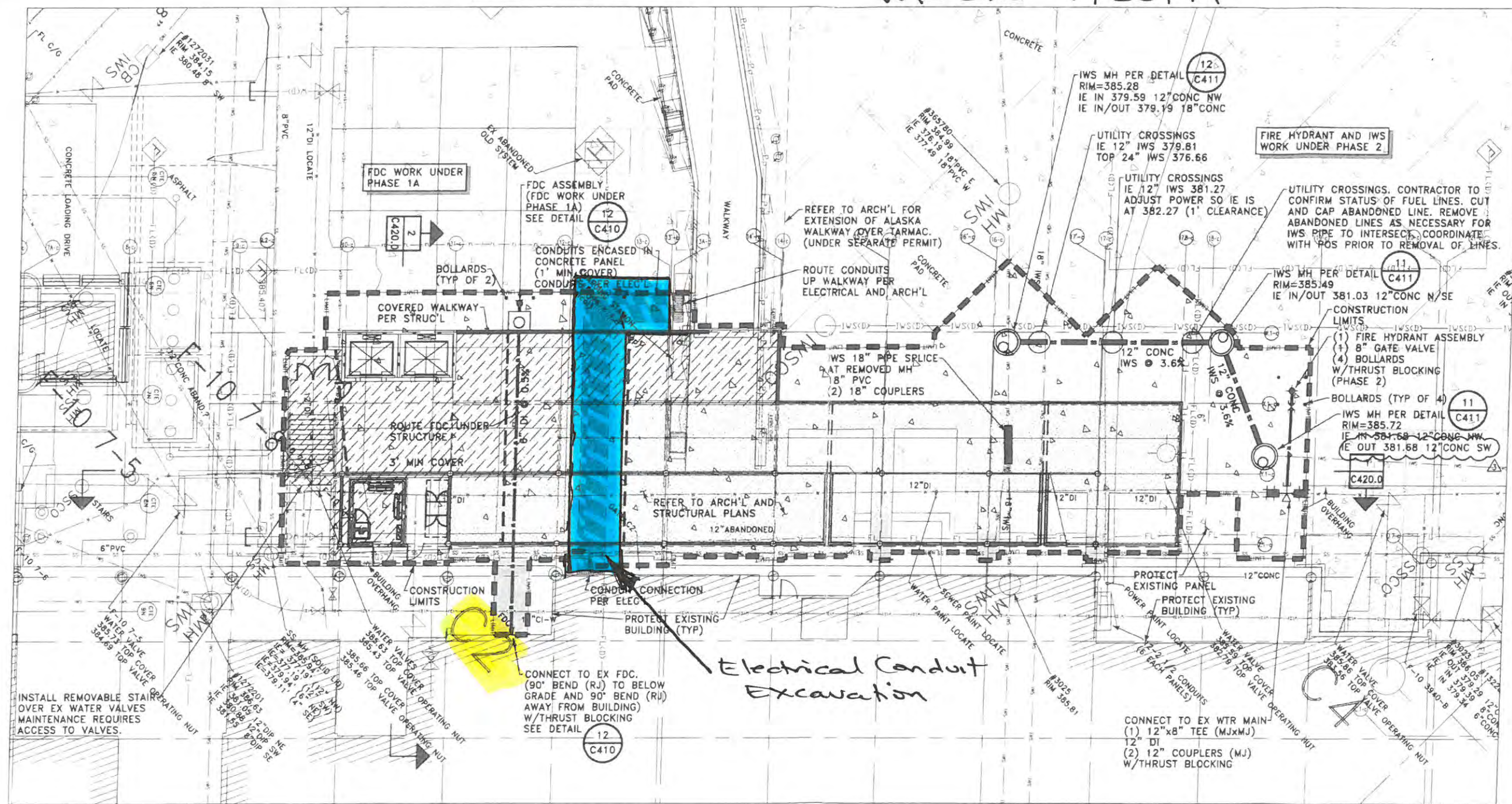
CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

Concourse C Vertical Circulation C2

WK End 7/20/14



LEGEND



6\"/>



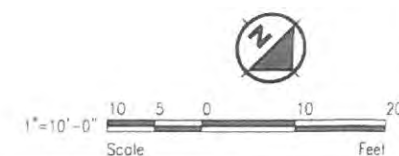
SEWER LINE CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING PER DETAIL

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C2
SCALE: 1\"/>



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PROJECT ENCL/ARCH
CPL
DESIGNER
JMB
DRAWN BY
PRW
SCALE:
AS SHOWN
DATE
10/07/13
CHECKED BY
JMB
DESIGNED/APPROVED BY
JAJ



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	12-16-13	JMB	ADDENDUM NO. 2						
2	12-20-13	JMB	ADDENDUM NO. 3						
3	12-27-13	JAJ	ADDENDUM NO. 4						

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAFTER
SCALE
DATE
CHECKED/APPROVED BY
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.1

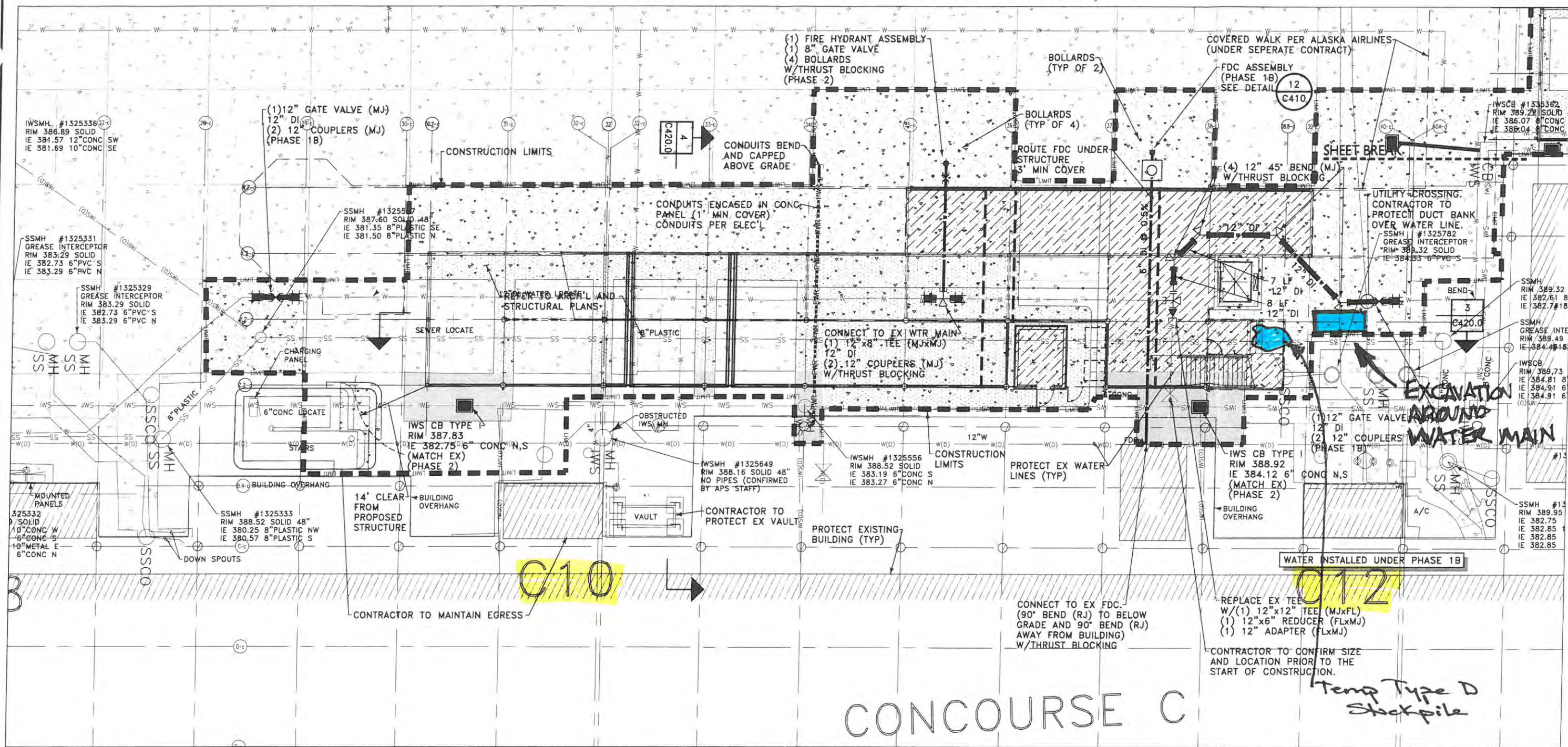
CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

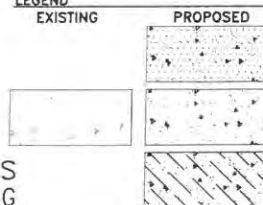
CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

Concourse C Vertical Circulation C10/C12

WK End 7/20/14

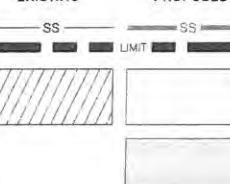


LEGEND



6\"/>

EXISTING PROPOSED



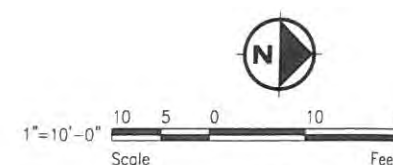
SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12
SCALE: 1\"/>



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ENGINEERING CORPORATION

PROJECT ENGR./ARCH:
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAJ



REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

**Port
of Seattle** SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.2

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	7/15/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas. The impacted soil stockpiles are covered when not in active use.

Photo Log

Date	Time	Photo #	Description
7/15/2014	10:08	01	Concourse C Work Area



Photo 01: Concourse C Work Area (7/15/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gates C2, C10/12 & C14

Start Date: 7/21/2014

End Date: 7/27/2014

Environmental Agent: R. Petrilli, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	6	15	Cedar Shores	A/B	15	225	ESF-CBSW
A/B	2	15	ESF-CBSW	B	2	30	ESF-SBNW
A/B	10	30	Allied	A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C2

The work at C2 for the week included completing the excavation for the communications/electrical ductbank conduit.

The soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=0 ppm (Type D 'clean' soil).

~15 tons of the Type D 'clean' soil encountered in the ductbank excavation was hauled to Cedar Shores.

Gate C10/12

The work at C10/12 included: 1) some minor excavation in the grade beams around a water pipe; 2) some additional minor excavation around the water main; and 3) the excavation for the elevator shaft.

The clean soil encountered in the water main and north half of the elevator shaft was brown to gray silty sand with gravel, no staining, no odors, PID=0 ppm (Type D 'clean' soil) and ~60 tons was hauled to Cedar Shores.

Type B impacted soil encountered in the grade beams and south half of the elevator shaft was brown silty sand with gravel, no staining, sharp odor, PID<10ppm. ~3 tons of Type B soil was temporarily stockpiled on site.

Gate C14

The work at C14 for the week included some minor grading in the southern portion of the work area.

The soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=0 ppm (Type D 'clean' soil).

~15 tons of the Type D 'clean' soil encountered in the grading excavation was hauled to Cedar Shores.

A hydraulic fluid release occurred on a truck hauling impacted soil from the stockpile facility on 07-25-14 and the spill report attached to this report documents the details and cleanup actions taken.

~300 tons of impacted soil from the stockpile facility was hauled to Allied (Republic Services) on 07-25-14 - there is currently no additional impacted soil from Concourse C at the stockpile facility.

A copy of the pollution prevention plan inspection is also attached.

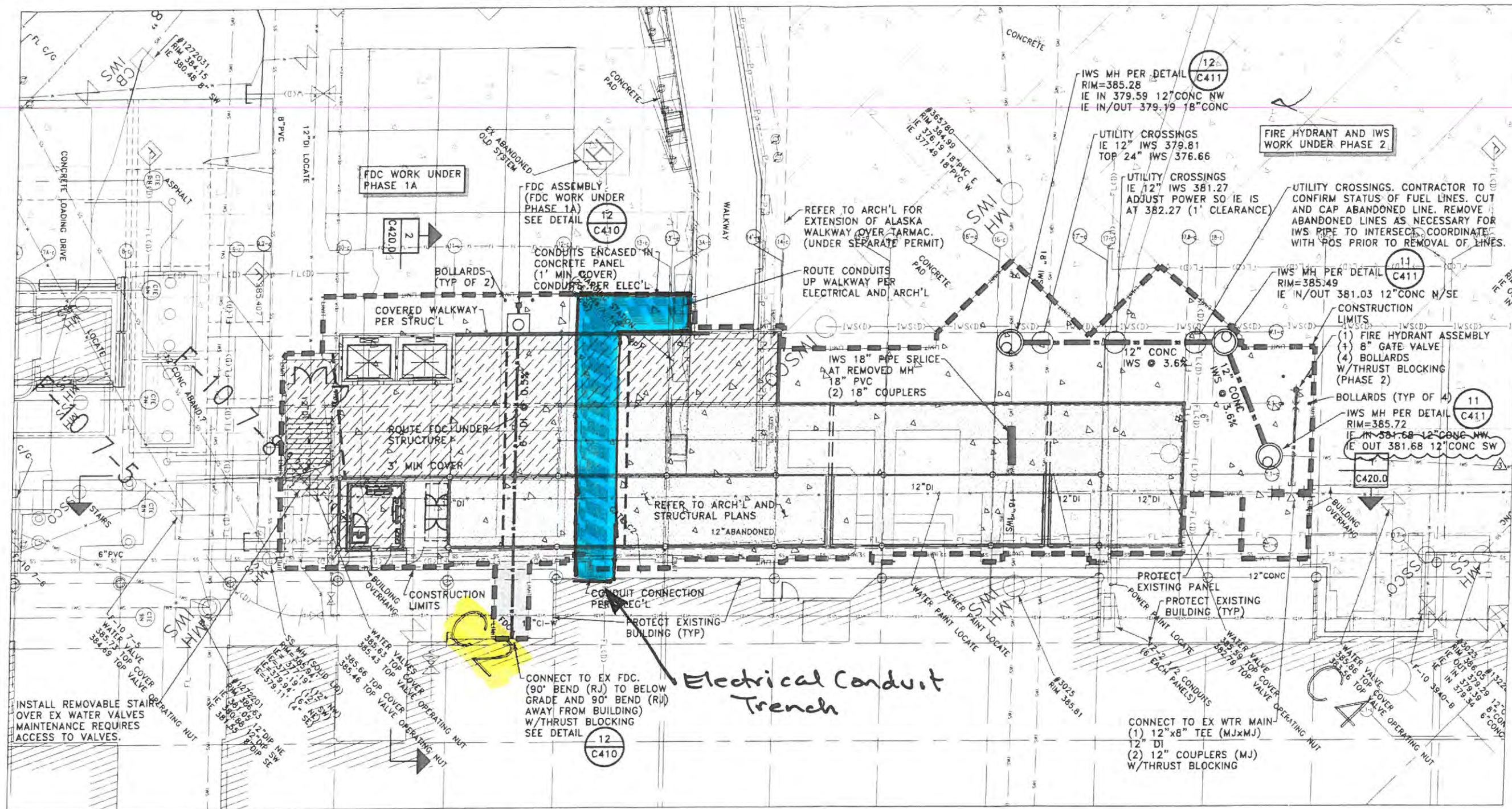
Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POT HOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

Concourse C Vertical Circulation C2 WK End 7/27/14



LEGEND
EXISTING

PROPOSED

EXISTING

PROPOSED

6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
18 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUCT'L

6
C410

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

7
C410

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412

NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C2

SCALE: 1" = 10'-0"

1"=10'-0"
Scale
10 5 0 10 20
Feet

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DESIGNER
JMB
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PRW
SCALE
AS SHOWN
DATE
10/07/13
CHECKED BY
JMB
CHECKED/APP'D BY
JAJ



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.
1	12-18-13	JMB	ADDENDUM NO. 2		
2	12-26-13	JMB	ADDENDUM NO. 3		
3	12-27-13	JAJ	ADDENDUM NO. 4		

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAWN BY
SCALE
DATE
CHECKED/APP'D BY
SCP

Port
of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

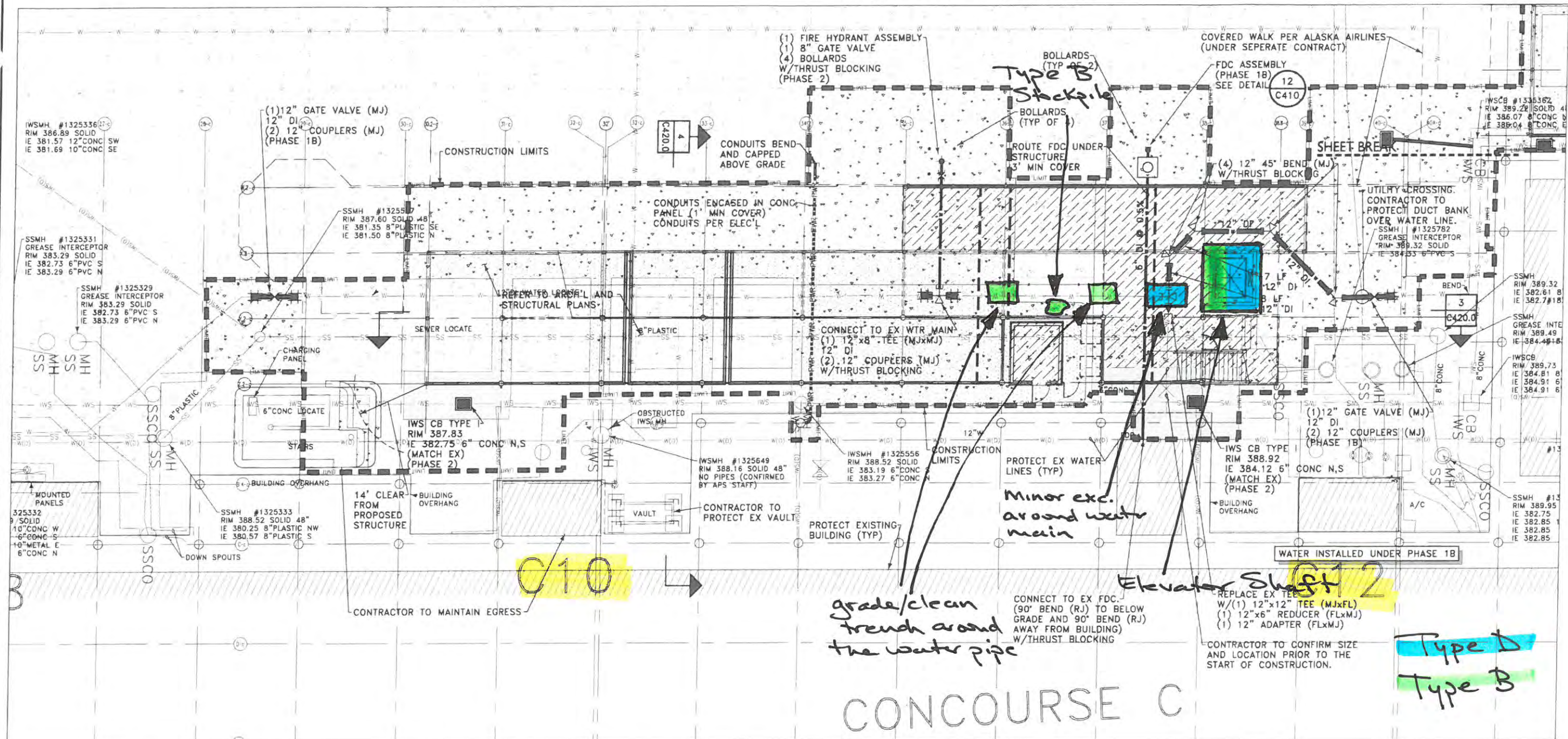
WORK PROJECT NO.
104784
CONSULTANTS NO.
2011079
PORT OF SEATTLE NO.
STA-1314 C301.1

Concourse C Vertical Circulation C10/C12 WK End 7/27/14

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND
EXISTING

PROPOSED

6\"/>

HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/#4 BARS
12\"/>

CONCRETE SLAB ON
GRADE PER STRUC'L

6
C410

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

7
C410

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

1
C412

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

2
C412

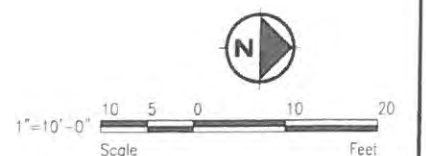
NEW PCCP PANEL TO ASPHALT - SEE DETAIL

3
C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12

SCALE: 1" = 10'-0"



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PROJECT ENGR./ARCH.
CPL
DESIGNER
JMB
DRAWN BY
PRW
SCALE
AS SHOWN
DATE
10/07/13
CHECKED BY
JMB
CHECKED/APPROVED BY
JAJ



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APPROVED	NO.	DATE	BY	DESCRIPTION	APPROVED

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAWN BY
SCALE
DATE
CHECKED/APPROVED BY
SCP

Port
of Seattle SEA-TAC INTERNATIONAL AIRPORT

PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

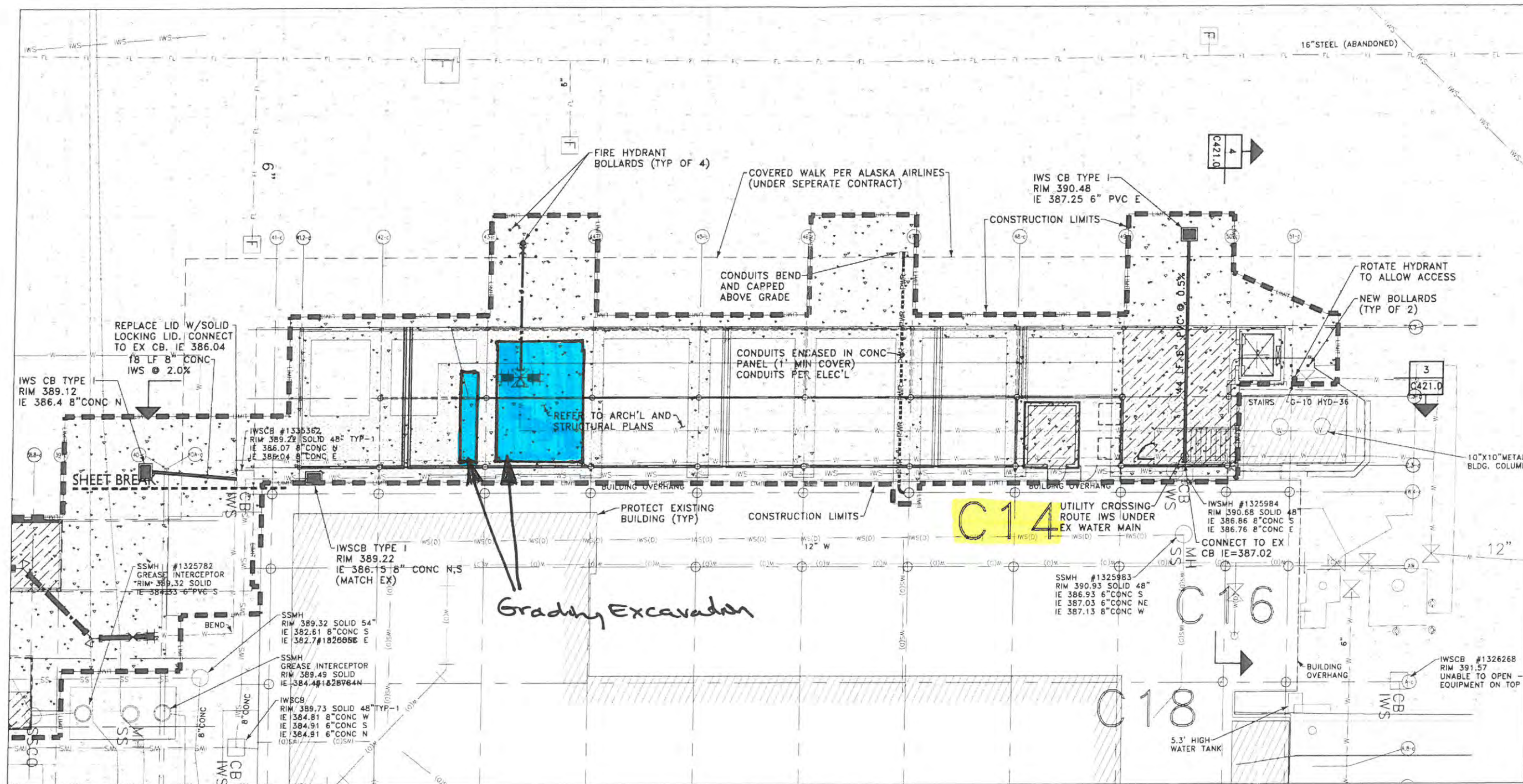
WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.2

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POT HOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

Concourse C Vertical Circulation C14 WK End 7/27/14



LEGEND
EXISTING

PROPOSED

EXISTING

PROPOSED

6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L

6
C410

SS
LIMIT

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

7
C410

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

1
C412

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

2
C412

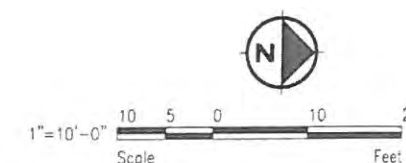
NEW PCCP PANEL TO ASPHALT - SEE DETAIL

3
C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C14

SCALE: 1" = 10'-0"



CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

SEE SHEET C001 FOR OVERALL LEGEND

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701 Dexter Avenue North
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W: www.oacinc.com

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413 PINE STREET - SUITE 300
SEATTLE, WA 98101
P: 206/343-0460
F: 206/343-5891
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAFTER
DATE
SCALE
CHECKED/APPROVED BY
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C14

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STA-1314 C301.3

STIA SPILL REPORT
Form D-2

For all spills, complete this form and return to:
Surface Water Program Manager, Port of Seattle
Email: fox.s@portseattle.org
Or FAX: (206) 439-6617

1. Date & Time Spill was Reported: 07/25/14 @ 0845
2. Estimated Time Spill Occurred: 0845
3. Name & Phone # of Person whom First Reported Spill: R. Petrilli (Aspect EA) (206) 849-4474
4. Party Responsible and Cause for Spill: Builders Sand & Gravel (Illiad Subcontractor) – busted hydraulic fluid line
5. Type of Material Spilled (Describe Odor/color, if unknown): Hydraulic fluid – brown
6. Estimated Quantity or Dimensions of Area Covered by Spill: ~1/2-gallon
7. Exact Location of Spill: Environmental Stockpile Facility
8. Did Material Reach a Catch Basin? Yes ☐ No ☒
9. If Yes, Catch Basin(CB) ID number (If No, Nearest CB to Spill): _____
10. If Yes, Drain Type: IWS ☐ Storm ☐ Sanitary Sewer ☐
11. Did Material Soak into Soil? Yes ☐ No ☒ Estimated Quantity (gal): _____
12. Weather Conditions at Site: Sunny and mild
13. Action Taken (Description of Initial Containment/Recover Procedures): Floor dry was placed on the spill area – the material was swept up and placed in the impacted soil pile for the project that was being hauled to Allied
14. POS–FD Run #, if applicable: _____
15. Name of Individual Preparing Report: G. Ferris
16. Date & Time Report was Completed: 07-25-14 @ 1445

Check below upon completion

- x All POS notifications made POS–FD, AV/ENV, AV/M
- x Spill Form Completely filled out and sent. Date & Time Sent: 07-25-14 @ 1600

Below Information to be completed by Aviation Environmental

1. Property(ies)/Stream(s) Impacted? _____
2. Did Material Leave Property? Yes ☐ No ☐ Estimated Quantity (gal): _____
3. Types of Countermeasures Implemented? _____
4. Agencies Contacted? _____ Report #: _____
5. Resolution/COMMENTS: _____

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	7/22/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas. The impacted soil stockpiles are covered when not in active use.

Photo Log

Date	Time	Photo #	Description
7/22/2014	09:08	01	Concourse C Work Area



Photo 01: Concourse C Work Area (7/22/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C14

Start Date: 7/28/2014

End Date: 8/3/2014

Environmental Agent: C. Marciniac, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
A/B	2	15	ESF-CBSW	A/B	2	30	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C14

The work at C14 for the week included a water line trench excavation.

The soil encountered in the west portion was brown silty sand with gravel, no staining, no odors, PID=0 ppm (Type D 'clean' soil).

The soil encountered in the east portion was gray silty sand with gravel, gray staining, glycol odor, PID=10 ppm (Type B soil).

~30 tons of Type B soil was hauled to the Environmental Stockpile Facility - Center Bay South Wall (ESF-CBSW) for temp storage.

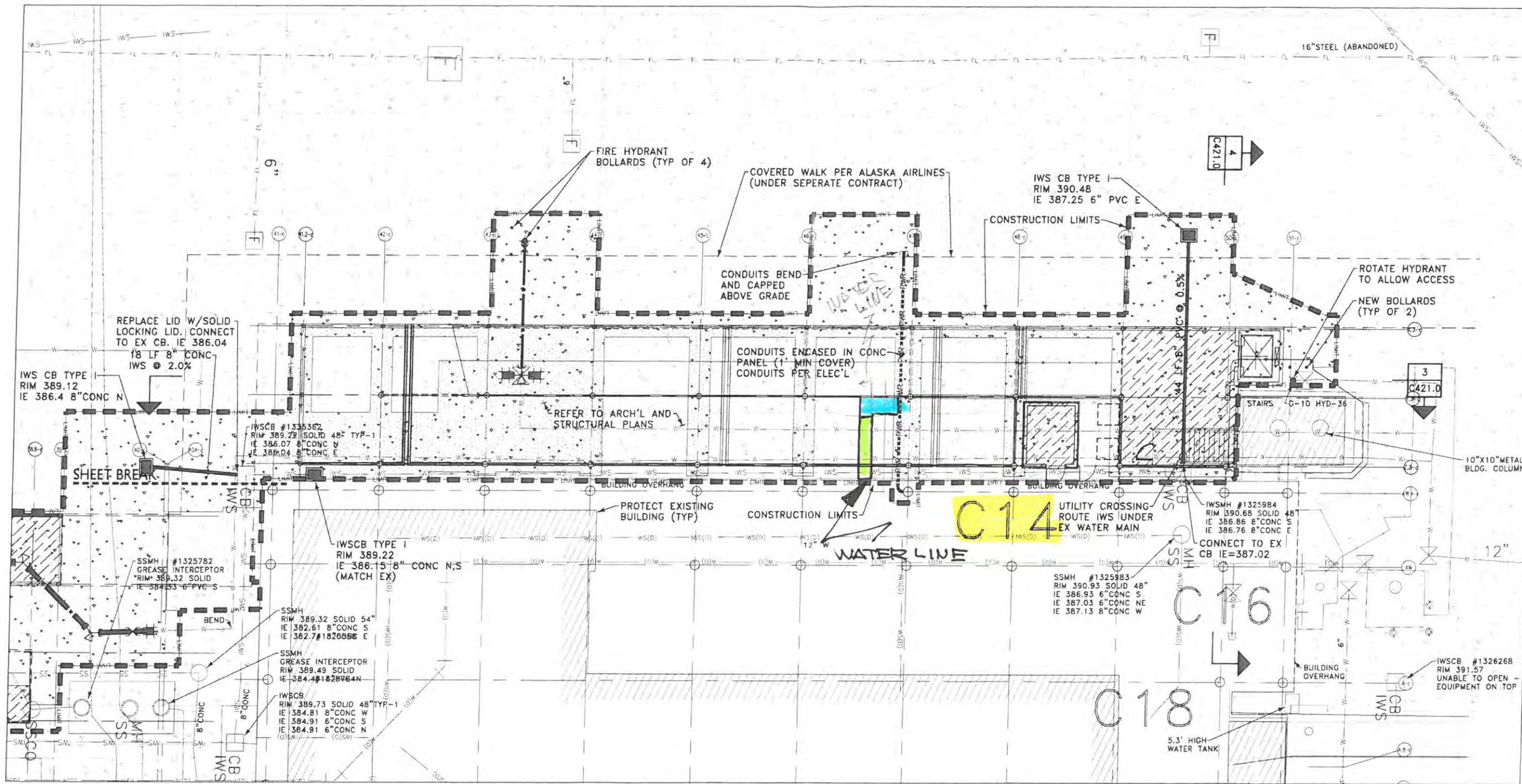
A copy of the pollution prevention plan inspection is also attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

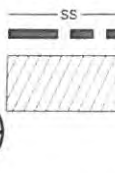


LEGEND
EXISTING
PROPOSED



6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING
PROPOSED



SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C14
SCALE: 1" = 10'-0"

WKE: 08.08.2014

Scale 10 5 0 10 20 Feet

OAC

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STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR./ARCH.
CPL
DESIGNER
JMB
DRAWN BY
PRW
SCALE
AS SHOWN
DATE
10/07/13
CHECKED BY
JMB
CREATED/REVISED BY
JMB



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAFTER
SCALE
DATE
CHECKED/REVISED BY
SCP

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C14

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.3

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	7/29/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas. The impacted soil stockpiles are covered when not in active use.

Photo Log

Date	Time	Photo #	Description
7/29/2014	12:49	01	Concourse C Work Area



Photo 01: Concourse C Work Area (7/29/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C14

Start Date: 8/4/2014

End Date: 8/10/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	2	30	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

No excavation work was performed at any of the project sites for the week of 8/4/14 - 8/8/14.

~30 tons of Type B impacted soil remains at the Environmental Stockpile Facility - Center Bay South Wall (ESF-CBSW).

A copy of the pollution prevention plan inspection is attached.

Attached Map ___ Yes ___X_No

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	8/5/2014	
HM Inspector, Company	Travis Forslund, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas. Liquid products are being stored in secondary containment when not in use.

Photo Log

Date	Time	Photo #	Description
8/5/2014	13:30	01	Concourse C Work Area



Photo 01: Concourse C Work Area (8/5/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gates C10/12 & C14

Start Date: 8/11/2014

End Date: 8/17/2014

Environmental Agent: C. Marciniac, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	NA	NA	A/B	2	30	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C10/12

The work at C10/12 for the week included drilling micropiles.

The soil encountered was brown silty sand with gravel, no staining, no odors, PID=0 ppm (Type D 'clean' soil).

A hydraulic fluid release occurred on 08/14/14 and the attached spill form documents the cleanup actions taken.

Gate C14

The work at C14 for the week included cleaning out around the elevator trench box and drilling micropiles.

The soil encountered was brown silty sand with gravel, no staining, no odors, PID=0 ppm (Type D 'clean' soil).

~30 tons of Type B soil remains at the Environmental Stockpile Facility - Center Bay South Wall (ESF-CBSW).

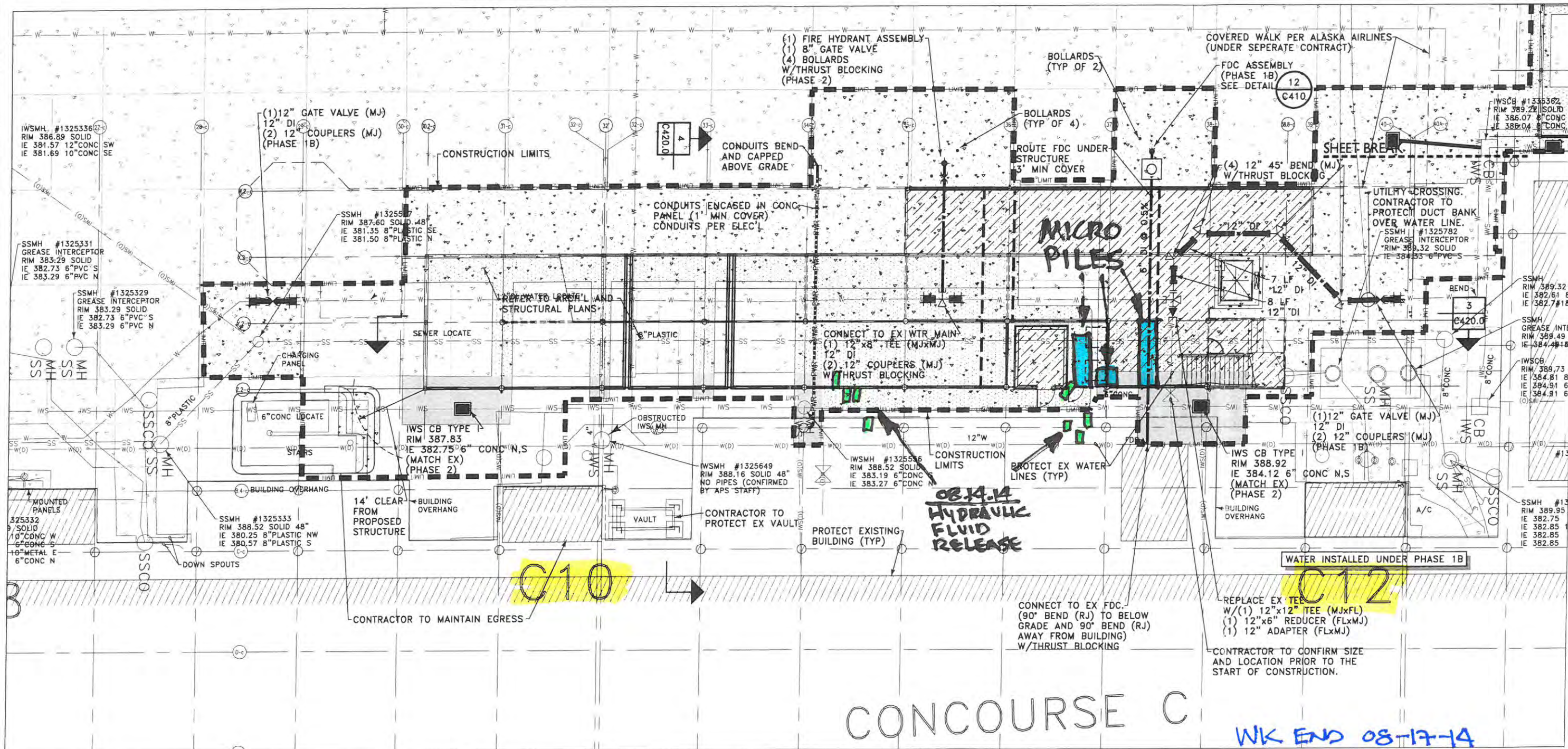
A copy of the pollution prevention plan inspection is also attached.

Attached Map ☒ Yes ☐ No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND
EXISTING

PROPOSED

6\"/>

HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12\"/>

CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12

SCALE: 1\"/>

HYDRAULIC SPILL 08-14-2014

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

SEE SHEET C001 FOR OVERALL LEGEND

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SEATTLE, WA 98101
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F: 206/343-5691

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STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR./ARCH:
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAJ



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

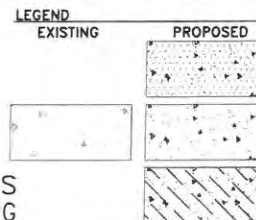
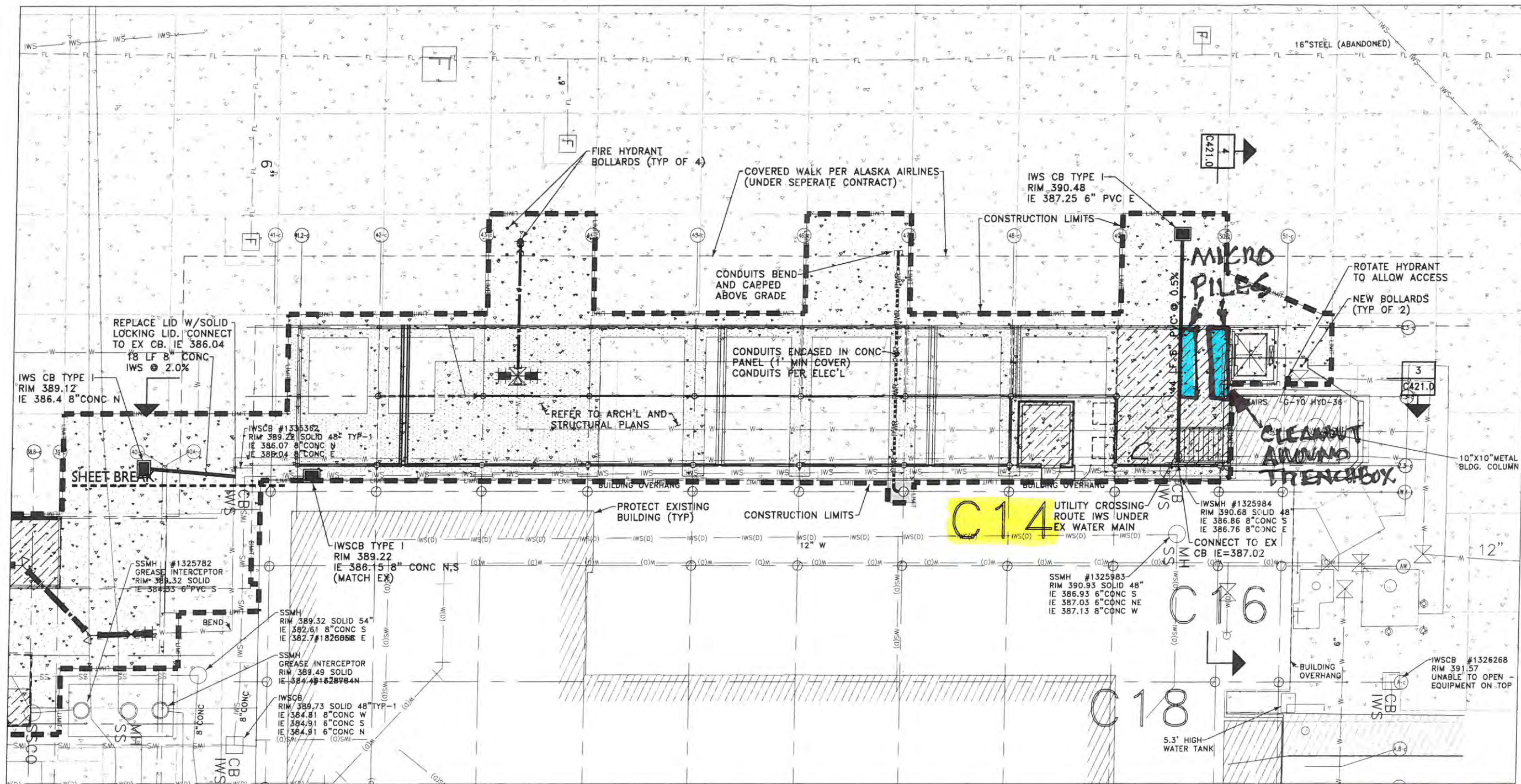
Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.:
104784
CONSULTANT'S NO.:
2011079
PORT OF SEATTLE NO.:
STA-1314 C301.2

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



SEE SHEET C001 FOR OVERALL LEGEND

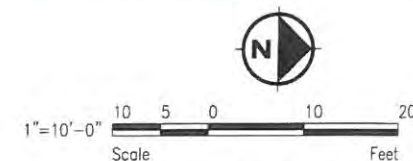
JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C14
SCALE: 1" = 10'-0"

WK END 08.17.14



OAC
701 Dexter Avenue North
Suite 301
Seattle, WA 98109-4342
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F: 206 285 4371
W: www.oacinc.com

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LUNDEEN**

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SEATTLE, WA 98101
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F: 206/343-5691
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle **SEA-TAC INTERNATIONAL AIRPORT**
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C14

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.3

STIA SPILL REPORT
Form D-2

For all spills, complete this form and return to:
Surface Water Program Manager, Port of Seattle

Email: fox.s@portseattle.org

Or FAX: (206) 439-6617

1. Date & Time Spill was Reported: August 14, 2014 @ 11:15
2. Estimated Time Spill Occurred: 10:55
3. Name & Phone # of Person whom First Reported Spill: C. Heimbigner (206) 255-7815
4. Party Responsible and Cause for Spill: NW Cascade Drilling: Hydraulic Hose Failure
5. Type of Material Spilled (Describe Odor/color, if unknown): Hydraulic Fluid – Brown
6. Estimated Quantity or Dimensions of Area Covered by Spill: Drops from hydraulic hose spread out in spots between C10 & C12 (~1/4 Cup *See Map)
7. Exact Location of Spill: Concourse C: 30' north from Gate C10
8. Did Material Reach a Catch Basin? Yes ☐ No ☒
9. If Yes, Catch Basin(CB) ID number (If No, Nearest CB to Spill): _____
10. If Yes, Drain Type: IWS ☐ Storm ☐ Sanitary Sewer ☐
11. Did Material Soak into Soil? Yes ☐ No ☒ Estimated Quantity (gal): ~1/4 Cup
12. Weather Conditions at Site: Cloudy/ Tem. 70
13. Action Taken (Description of Initial Containment/Recover Procedures): Crew used floor dry to remove hydraulic fluid from concrete panels. Estimated removal of 4 pounds of floor dry. This material was placed into impacted soil stockpile on site.
14. POS–FD Run #, if applicable: _____
15. Name of Individual Preparing Report: C. Marciniec
16. Date & Time Report was Completed: 08/17/2014 @ 05:15

Check below upon completion

x All POS notifications made POS–FD, AV/ENV, AV/M

x Spill Form Completely filled out and sent. Date & Time Sent: 08/18/14 @ 1100

Below Information to be completed by Aviation Environmental

1. Property(ies)/Stream(s) Impacted? _____
2. Did Material Leave Property? Yes ☐ No ☐ Estimated Quantity (gal): _____
3. Types of Countermeasures Implemented? _____
4. Agencies Contacted? _____ Report #: _____
5. Resolution/COMMENTS: _____

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	8/12/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas. The impacted soil stockpiles are covered when not in active use.

Photo Log

Date	Time	Photo #	Description
8/12/2014	09:21	01	Concourse C Work Area



Photo 01: Concourse C Work Area (8/12/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C14

Start Date: 8/18/2014

End Date: 8/24/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	NA	NA	A/B	2	30	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C14

The work at C14 for the week included a footing excavation for a stem wall south of the elevator pit.

The soil encountered was brown silty sand with gravel, no staining, no odors, PID=0 ppm (Type D 'clean' soil).

~30 tons of Type B soil remains at the Environmental Stockpile Facility - Center Bay South Wall (ESF-CBSW).

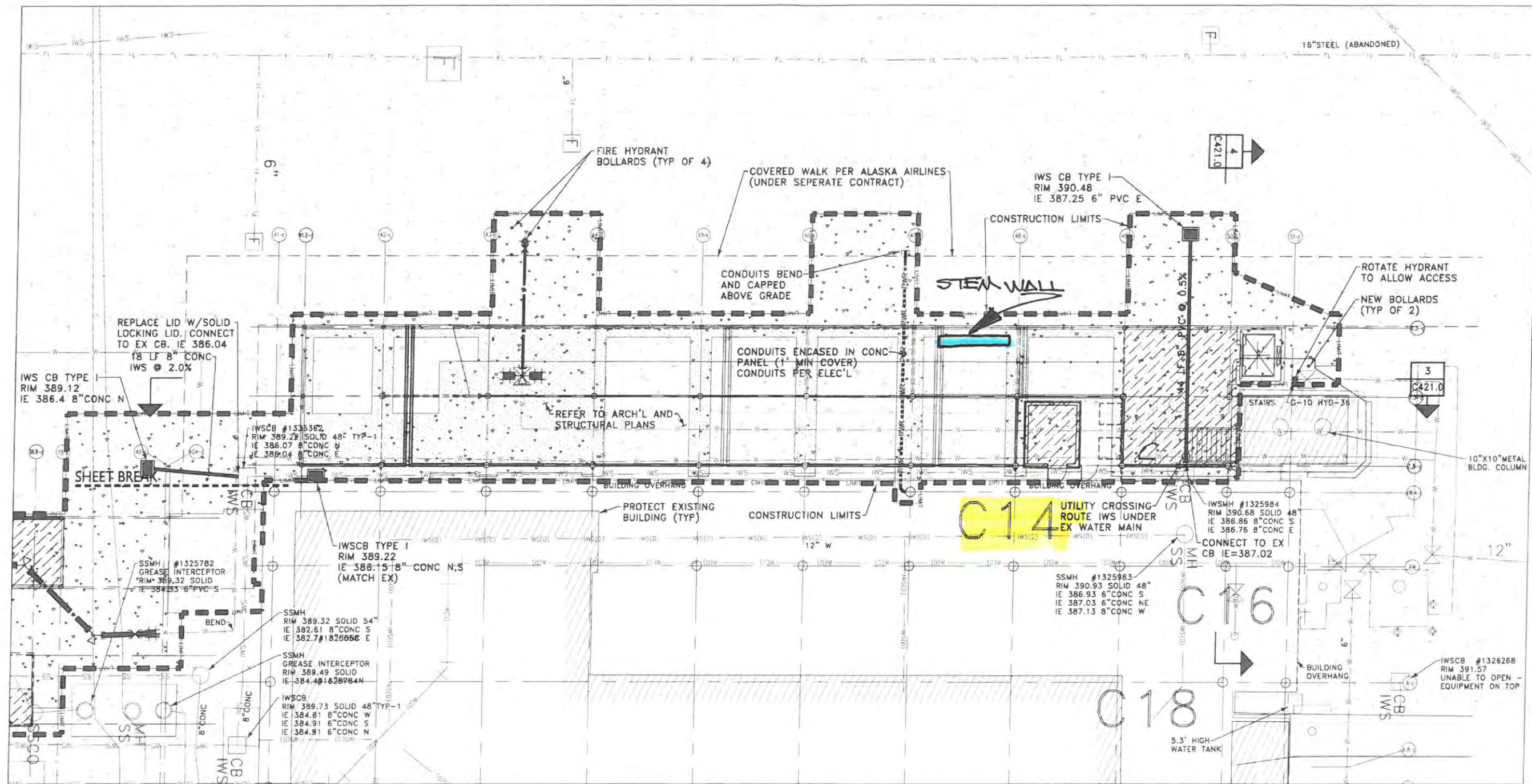
A copy of the pollution prevention plan inspection is also attached.

Attached Map ☒ Yes ☐ No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POT HOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND

EXISTING

PROPOSED

EXISTING

PROPOSED

6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L

6
C410

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

7
C410

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

1
C412

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

2
C412

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

3
C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C14

SCALE: 1" = 10'-0"

WKE: 0824-2014



1"=10'-0" 10 5 0 10 20
Scale Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

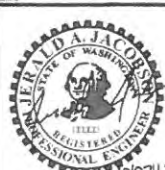
SEE SHEET C001 FOR OVERALL LEGEND

OAC

201 Dexter Avenue North
Suite 201
Seattle, WA 98109-4362
P: 206 285 4308
F: 206 285 4311
WWW.OACENR.COM

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413 PINE STREET, SUITE 300
SEATTLE, WA 98101
P: 206/343-0460
F: 206/343-5691
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAWER
SCALE:
DATE:
CHECKED/APP'D BY:
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT

PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C14

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STA-1314 C301.3

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	8/19/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas.

Photo Log

Date	Time	Photo #	Description
8/19/2014	09:55	01	Concourse C Work Area

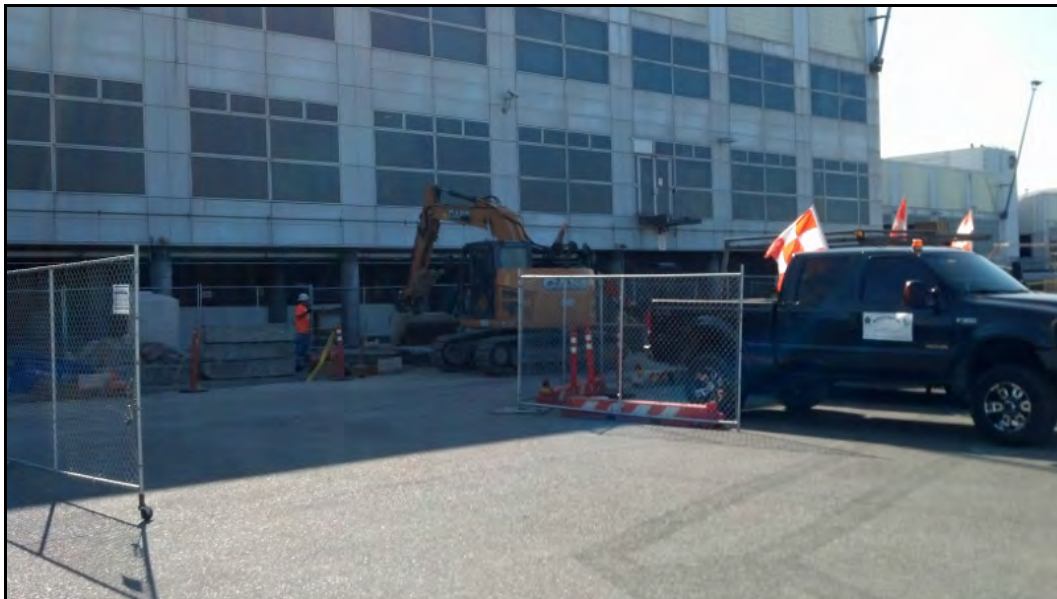


Photo 01: Concourse C Work Area (8/19/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C-14

Start Date: 8/25/2014

End Date: 8/31/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	NA	NA	A/B	2	30	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C14

A small diesel fuel release occurred at Gate C-14 on August 25, 2014. The attached spill report summarizes the actions taken to clean up the release.

No excavation work occurred at the project site during the week ending 08-31-14.

A copy of the pollution prevention plan inspection is also attached.

Attached Map ☒ Yes ☐ No

CONTRACTOR TO POTHOLE IMPACTED
UTILITIES TO CONFIRM LOCATION, DEPTH AND
SIZE PRIOR TO START OF CONSTRUCTION.
UTILITIES SHOWN FOR REFERENCE ONLY.



STIA SPILL REPORT
Form D-2

For all spills, complete this form and return to:
Surface Water Program Manager, Port of Seattle

Email: fox.s@portseattle.org

Or FAX: (206) 439-6617

1. Date & Time Spill was Reported: 08/25/14 @ 0845
2. Estimated Time Spill Occurred: 1340
3. Name & Phone # of Person whom First Reported Spill: M. Salcido (Forma) (206) 786-8112
4. Party Responsible and Cause for Spill: Saw-cutters spilled diesel fuel on pavement while filling the machine's fuel reservoir.
5. Type of Material Spilled (Describe Odor/color, if unknown): Diesel fuel – brown
6. Estimated Quantity or Dimensions of Area Covered by Spill: ~4 ounces (1'x1')
7. Exact Location of Spill: Gate C-14 (~20' south of the new elevator shaft)
8. Did Material Reach a Catch Basin? Yes ☐ No ☒
9. If Yes, Catch Basin(CB) ID number (If No, Nearest CB to Spill): _____
10. If Yes, Drain Type: IWS ☐ Storm ☐ Sanitary Sewer ☐
11. Did Material Soak into Soil? Yes ☐ No ☒ Estimated Quantity (gal): _____
12. Weather Conditions at Site: Sunny and warm
13. Action Taken (Description of Initial Containment/Recover Procedures): Floor dry was placed on the spill area – the material was swept up and placed in a 5-gallon bucket (~1/4-full) to be disposed of by the saw-cutting subcontractor
14. POS-FD Run #, if applicable: _____
15. Name of Individual Preparing Report: G. Ferris
16. Date & Time Report was Completed: 09-02-14 @ 1100

Check below upon completion

x All POS notifications made POS-FD, AV/ENV, AV/M

x Spill Form Completely filled out and sent. Date & Time Sent: 09-02-14 @ 1300

Below Information to be completed by Aviation Environmental

1. Property(ies)/Stream(s) Impacted? _____
2. Did Material Leave Property? Yes ☐ No ☐ Estimated Quantity (gal): _____
3. Types of Countermeasures Implemented? _____
4. Agencies Contacted? _____ Report #: _____
5. Resolution/COMMENTS: _____

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	8/26/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas.

Photo Log

Date	Time	Photo #	Description
8/26/2014	09:11	01	Concourse C Work Area



Photo 01: Concourse C Work Area (8/26/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C-10/12

Start Date: 9/1/2014

End Date: 9/7/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	NA	NA	A/B	2	30	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C10/12

Excavation work for the week occurred just north of the new elevator shaft to remove clean soil down to grade. The soil encountered was brown silty sand with gravel, no staining, no odors, PID=0.0ppm (Type D 'clean' material).

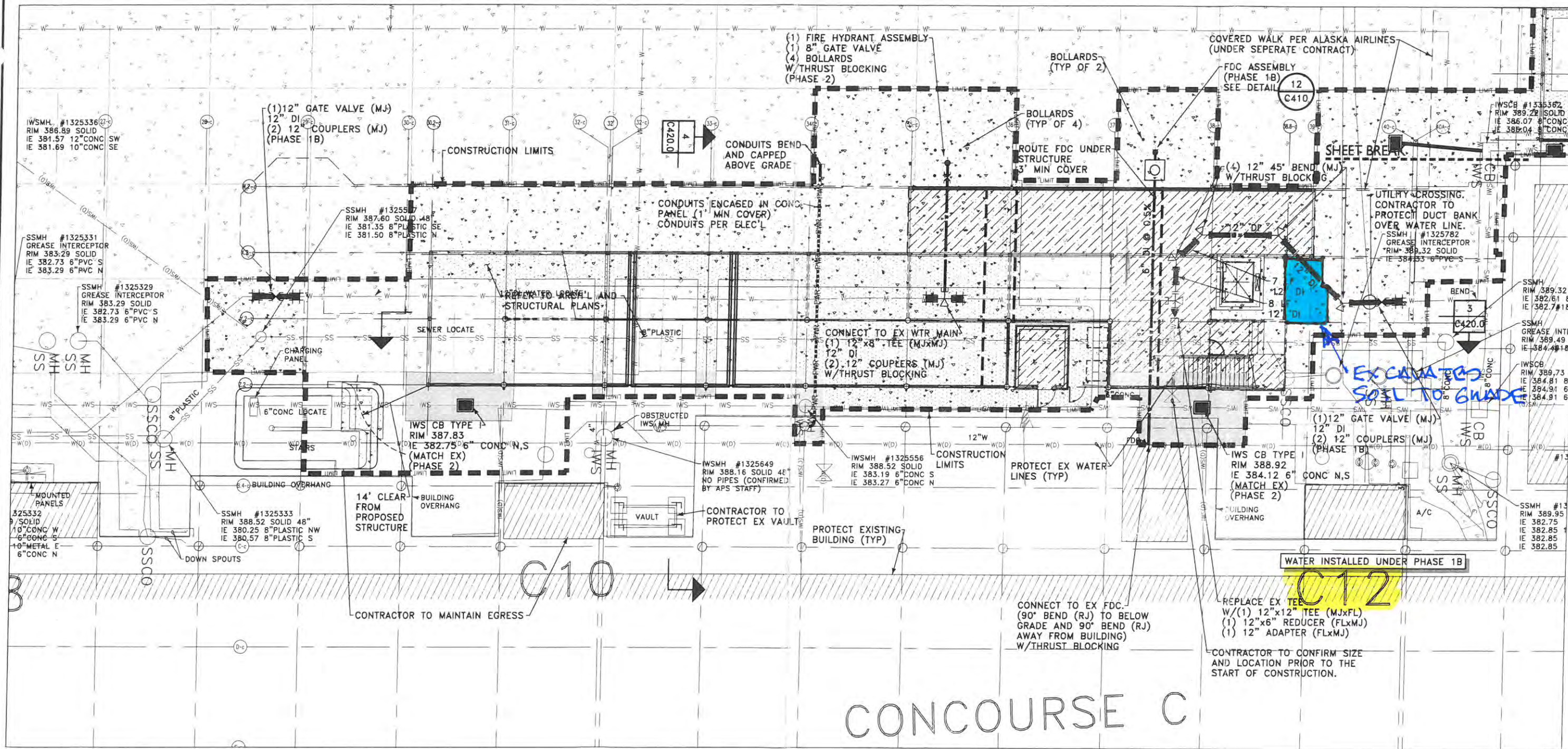
A copy of the pollution prevention plan inspection is also attached.

Attached Map ☒ Yes ☐ No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



CALL 2 DAYS BEFORE YOU DIG
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LEGEND
EXISTING



6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING



SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

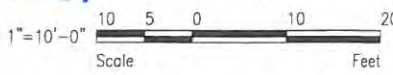
JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12
SCALE: 1" = 10'-0"

WKE: 09.07.2014



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SEATTLE, WA 98101
P: 206/343-0460
F: 206/343-5691
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.2

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	9/3/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas.

Photo Log

Date	Time	Photo #	Description
9/3/2014	14:32	01	Concourse C Work Area



Photo 01: Concourse C Work Area (9/3/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gate C-10/12

Start Date: 9/8/2014

End Date: 9/14/2014

Environmental Agent: C. Marciniac, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	NA	NA	A/B	2	30	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C10/12

Grading excavation work for the week occurred near the south end of Gate C-10 where concrete panels were removed. The soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=0.0ppm (Type D 'clean' material).

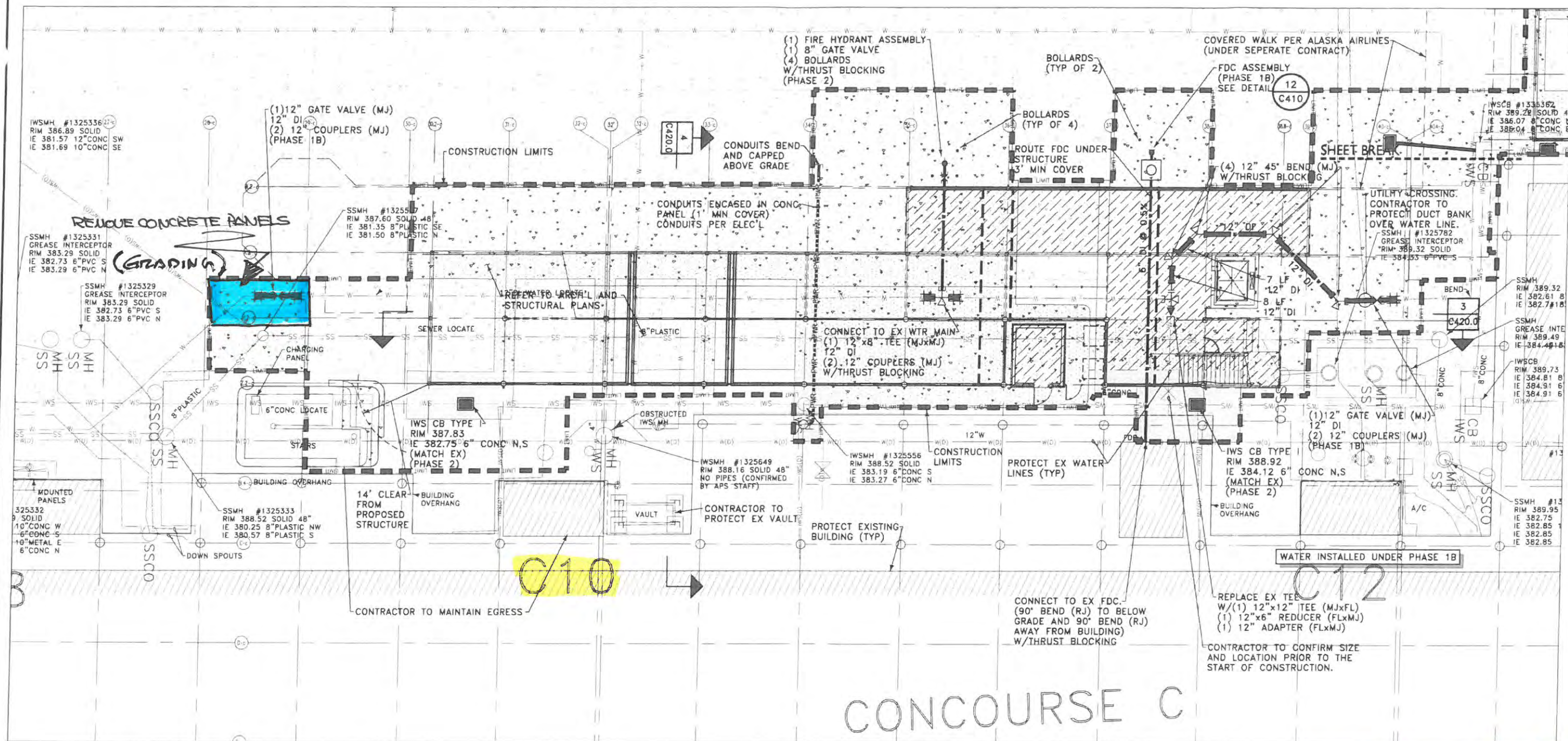
A copy of the pollution prevention plan inspection is also attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND

EXISTING

PROPOSED



6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING

PROPOSED



SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL
NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL
NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12

SCALE: 1" = 10'-0"

WK EMDIM 09-14-14



1"=10'-0"
Scale Feet

CALL 2 DAYS
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SEE SHEET C001 FOR OVERALL LEGEND

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SEATTLE, WA 98101
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F: 206/343-5691
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ENGINEERING CORPORATION



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D.	NO.

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.2

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	9/9/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas.

Photo Log

Date	Time	Photo #	Description
9/9/2014	13:58	01	Concourse C Work Area



Photo 01: Concourse C Work Area (9/9/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C-10/12

Start Date: 9/15/2014

End Date: 9/21/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	NA	NA	A/B	2	30	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C10/12

Excavation work for the FDC extension during the week occurred just south of the elevator shaft at Gate C-12. The soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=0.0ppm (Type D 'clean' material).

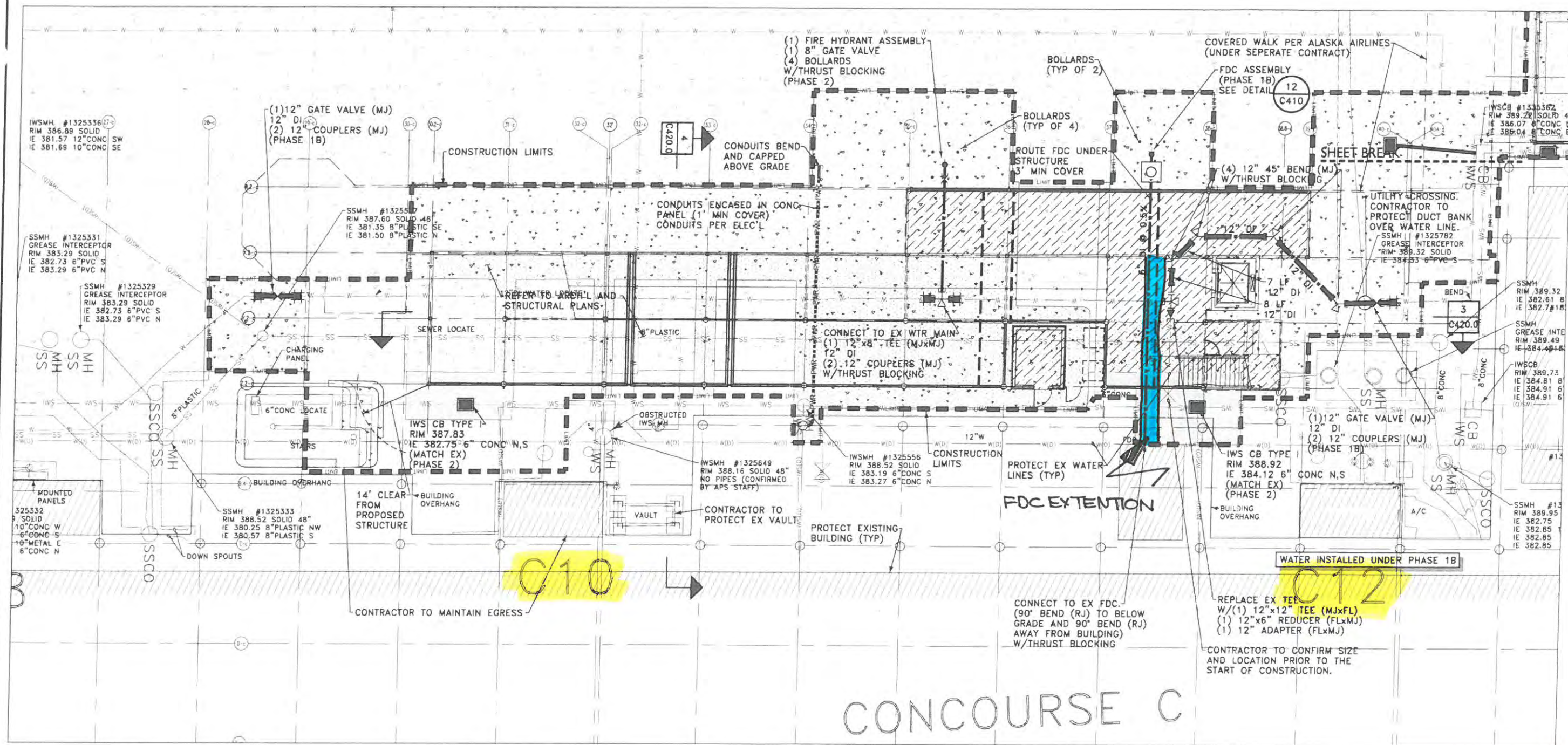
A copy of the pollution prevention plan inspection is also attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND

EXISTING

PROPOSED

EXISTING

PROPOSED

6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L

6
C410

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

7
C410

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

1
C412

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

2
C412

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

3
C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12

SCALE: 1" = 10'-0"

WKE: 09.21.2014



1" = 10'-0" Scale 10 5 0 10 20 Feet

CALL 2 DAYS
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SEE SHEET C001 FOR OVERALL LEGEND

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SEATTLE, WA 98101
P: 206/343-0460
F: 206/343-5691
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REVISIONS				
NO.	DATE	BY	DESCRIPTION	APP'D

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAWER:
SCALE:
DATE:
CHECKED/APP'D BY:
SCP

Port of Seattle **SEA-TAC INTERNATIONAL AIRPORT**
PROJECT: **Concourse C Vertical Circulation
Vertical Conveyance System Upgrade**
SHEET TITLE: **Civil Site Plan C10/C12**

WORK PROJECT NO:
104784
CONSULTANT'S NO:
2011079
PORT OF SEATTLE NO:
STIA-1314 C301.2

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	9/16/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas.

Photo Log

Date	Time	Photo #	Description
9/16/2014	12:49	01	Concourse C Work Area

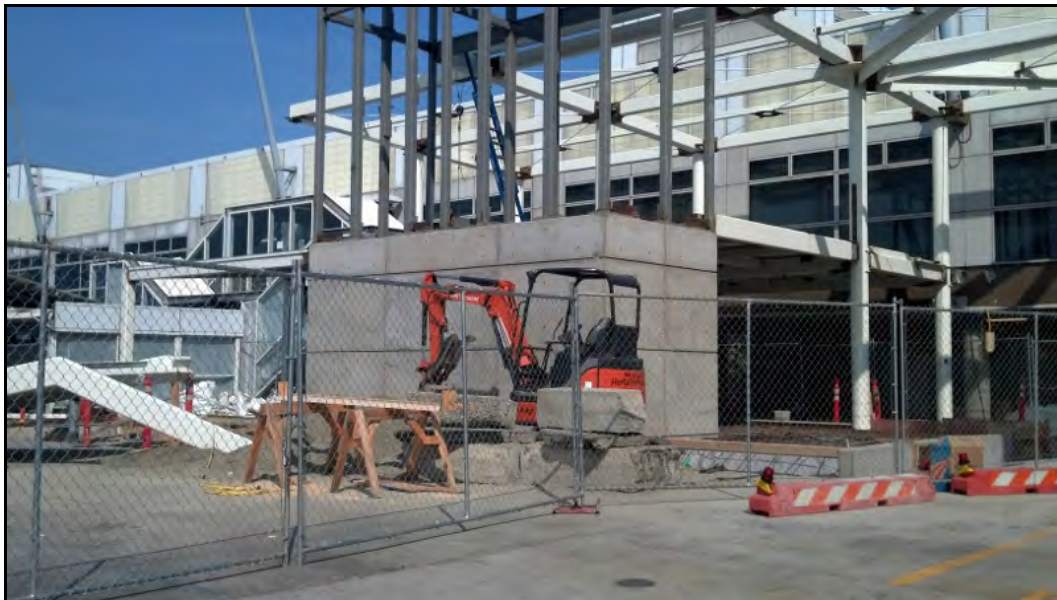


Photo 01: Concourse C Work Area (9/16/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gates C-10/12 and C-14

Start Date: 9/22/2014

End Date: 9/28/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	NA	NA	A/B	2	30	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C10/12

Excavation work for the FDC extension during the week occurred just east of the elevator shaft at Gate C-12. The soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=0.0ppm (Type D 'clean' material).

Gate C14

Excavation work for a storm drain and catch basin during the week occurred just south of the elevator shaft at Gate C-14. The soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=0.0ppm (Type D 'clean' material).

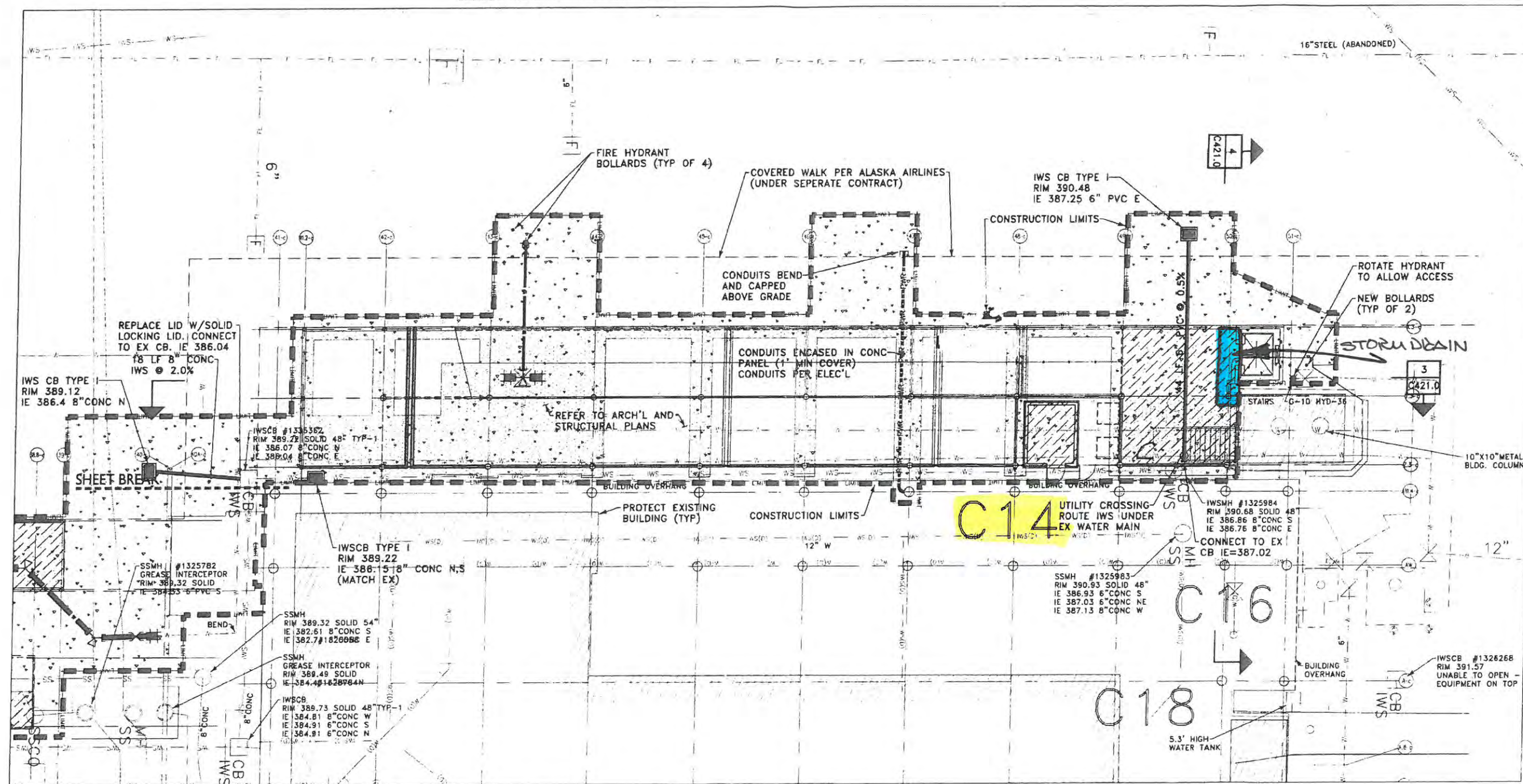
A copy of the pollution prevention plan inspection is also attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND

EXISTING

PROPOSED

6\"/>

HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12\"/>

CONCRETE SLAB ON
GRADE PER STRUCT'L

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL

GATE C14

SCALE: 1\"/>

WKE:09-28-2014

1\"/>

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

SEE SHEET C001 FOR OVERALL LEGEND

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701 DEXTER AVENUE NORTH
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WWW.OACDESIGN.COM

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A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR/ARCH:
CPI
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAJ



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAWER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

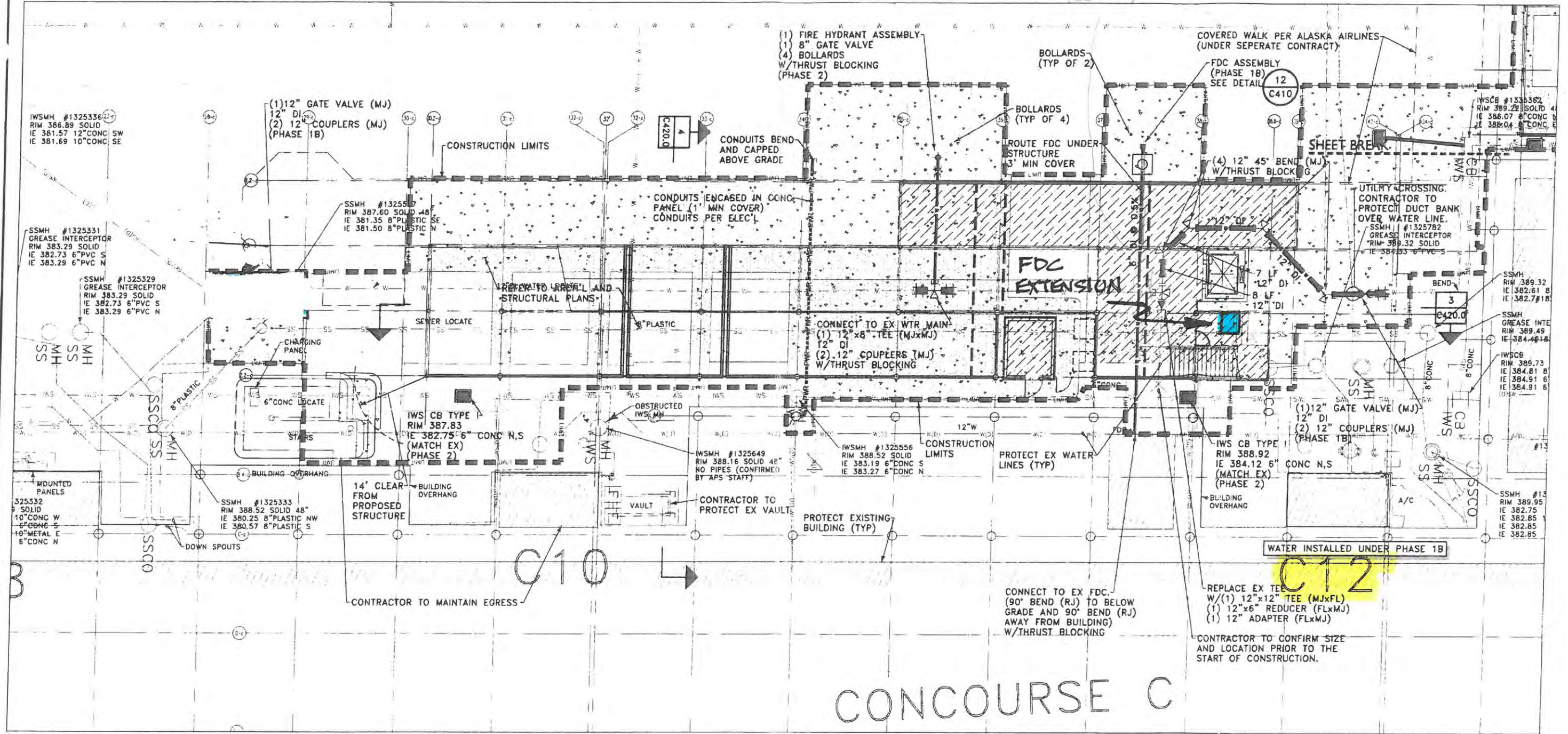
Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C14

WORK PROJECT NO:
104784
CONSULTANT'S NO:
2011079
PORT OF SEATTLE NO:
STIA-1314 C301.3

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



CONCOURSE C

LEGEND

EXISTING	PROPOSED
SS	6" CONCRETE SIDEWALK
SS	HEAVY DUTY CONCRETE PAVING 16 INCHES CONCRETE CEMENT OVER 8 INCHES CRUSHED ROCK BASE COURSE W/ #4 BARS 12" O.C. EACH WAY PER DETAIL
SS	CONCRETE SLAB ON GRADE PER STRUC'L
SS	SEWER LINE
SS	CONSTRUCTION LIMITS
SS	PROPOSED STRUCTURE
SS	ASPHALT PAVING PER DETAIL

SEE SHEET C001 FOR OVERALL LEGEND

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL C412

CIVIL SITE PLAN
RAMP LEVEL
GATE C10/C12
SCALE: 1" = 10'-0"

WKE:09-28-2014

1"=10'-0"

Scale

10 5 0 10 20

Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

OAC 101 DEXTER AVENUE NORTH SUITE 301 SEATTLE, WA 98109 P: 206/285-4325 F: 206/285-4371 WWW.OAC-ENR.COM	COUGHLIN PORTER LUNDEEN 413 PINE STREET, SUITE 300 SEATTLE, WA 98101 P: 206/343-0460 F: 206/343-5491 A CONSULTING STRUCTURAL AND CIVIL ENGINEERING CORPORATION		REVISIONS				PROJECT MANAGER JOE NESSEL PROJECT ENGINEER JOE NESSEL DESIGN ENGINEER JOE NESSEL DRAWER JOE NESSEL CHECKED/APPROVED BY SCP	Port of Seattle SEA-TAC INTERNATIONAL AIRPORT PROJECT: Concourse C Vertical Circulation Vertical Conveyance System Upgrade SHEET TITLE: Civil Site Plan C10/C12	WORK PROJECT NO 104784 CONSULTANT'S NO 2011079 PORT OF SEATTLE NO STA-1314 C301.2
			NO.	DATE	BY	DESCRIPTION			

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	9/23/2014	
HM Inspector, Company	Dan Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPS are implemented as required at the construction and laydown areas.

Photo Log

Date	Time	Photo #	Description
9/23/2014	09:03	01	Concourse C Work Area



Photo 01: Concourse C Work Area (9/23/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gates C-10/12 and C-14

Start Date: 9/29/2014

End Date: 10/5/2014

Environmental Agent: C. Marciniak, G. Ferris, A. Johnson

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	NA	NA	A/B	2	30	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

No excavation work during the week ending 10-05-14.

A copy of the pollution prevention plan inspection is attached.

Attached Map X Yes No

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	9/30/2014	
HM Inspector, Company	Andrew Johnson, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at the construction area at the time of the inspection.

Photo Log

Date	Time	Photo #	Description
9/30/2014	11:12	01	Concourse C Work Area



Photo 01: Concourse C Work Area (9/30/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C-10/12 and C-14

Start Date: 10/6/2014

End Date: 10/12/2014

Environmental Agent: G. Ferris, A. Johnson

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	NA	NA	A/B	2	30	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

No excavation work during the week ending 10-12-14.

Approximately 30 tons of impacted soil remains at the Environmental Stockpile Facility - Center Bay South Wall (ESF-CBSW).

A copy of the pollution prevention plan inspection is attached.

Attached Map ___ Yes ___X_No

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	10/7/2014	
HM Inspector, Company	Andrew Johnson, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction areas at the time of the inspection.

Photo Log

Date	Time	Photo #	Description
10/7/2014	08:31	01	Concourse C Work Area



Photo 01: Concourse C Work Area (10/7/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C-2 and C-10/12

Start Date: 10/13/2014

End Date: 10/19/2014

Environmental Agent: C. Marciniac, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	NA	NA	A/B	2	30	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C2

Excavation work to reroute the IWS line between C2 and C4 occurred during the week. The majority of soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=0.0ppm (Type D 'clean' material). However, glycol impacted soil (Type 'B' material) was encountered at the eastern end of the excavated area. The glycol impacted soil was not excavated during the week. All clean soil was temporarily stored on site and covered with plastic.

Gate C10/12

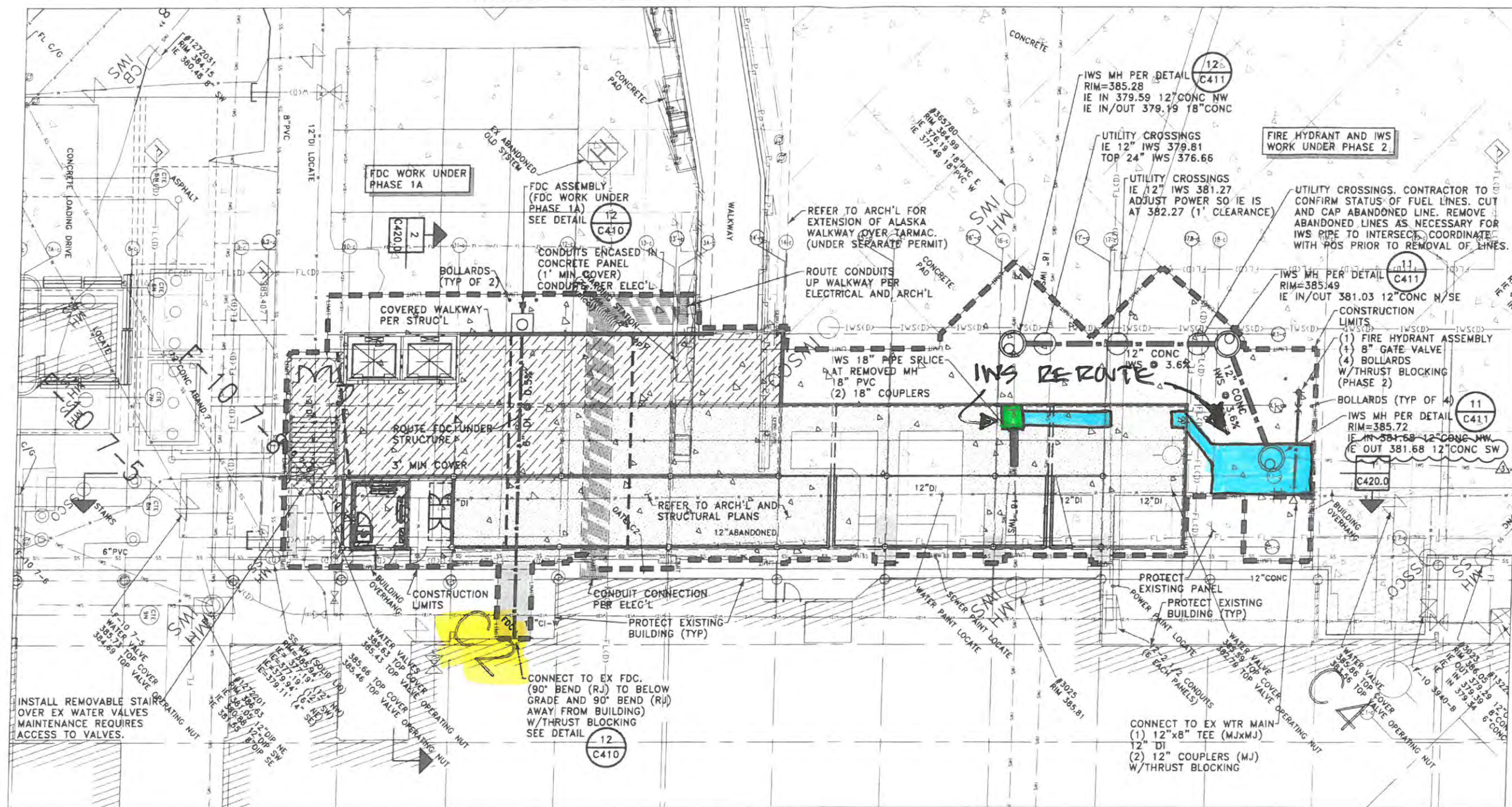
Excavation work for the FDC extension during the week occurred southwest of the elevator shaft at Gate C-12. The soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=0.0ppm (Type D 'clean' material). All clean soil was temporarily stored on site and covered with plastic. A copy of the pollution prevention plan inspection is also attached.

Attached Map ☒ Yes ☐ No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND



PROPOSED



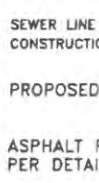
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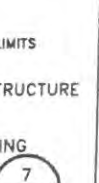
PROPOSED



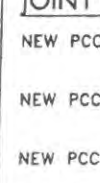
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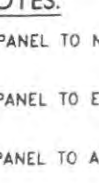
PROPOSED



EXISTING



PROPOSED



JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL C412
NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL C412
NEW PCCP PANEL TO ASPHALT - SEE DETAIL C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C2
SCALE: 1" = 10'-0"

WKE: 10-15-2014

1"=10'-0" 10 5 0 10 20
Scale Feet

CALL 2 DAYS BEFORE YOU DIG
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SEE SHEET C001 FOR OVERALL LEGEND

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STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENCL/ARCH:
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAJ



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	12-16-13	JMB	ADDENDUM NO. 2						
2	12-29-13	JMB	ADDENDUM NO. 3						
3	12-27-13	JAJ	ADDENDUM NO. 4						

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APP'D BY:
SCP

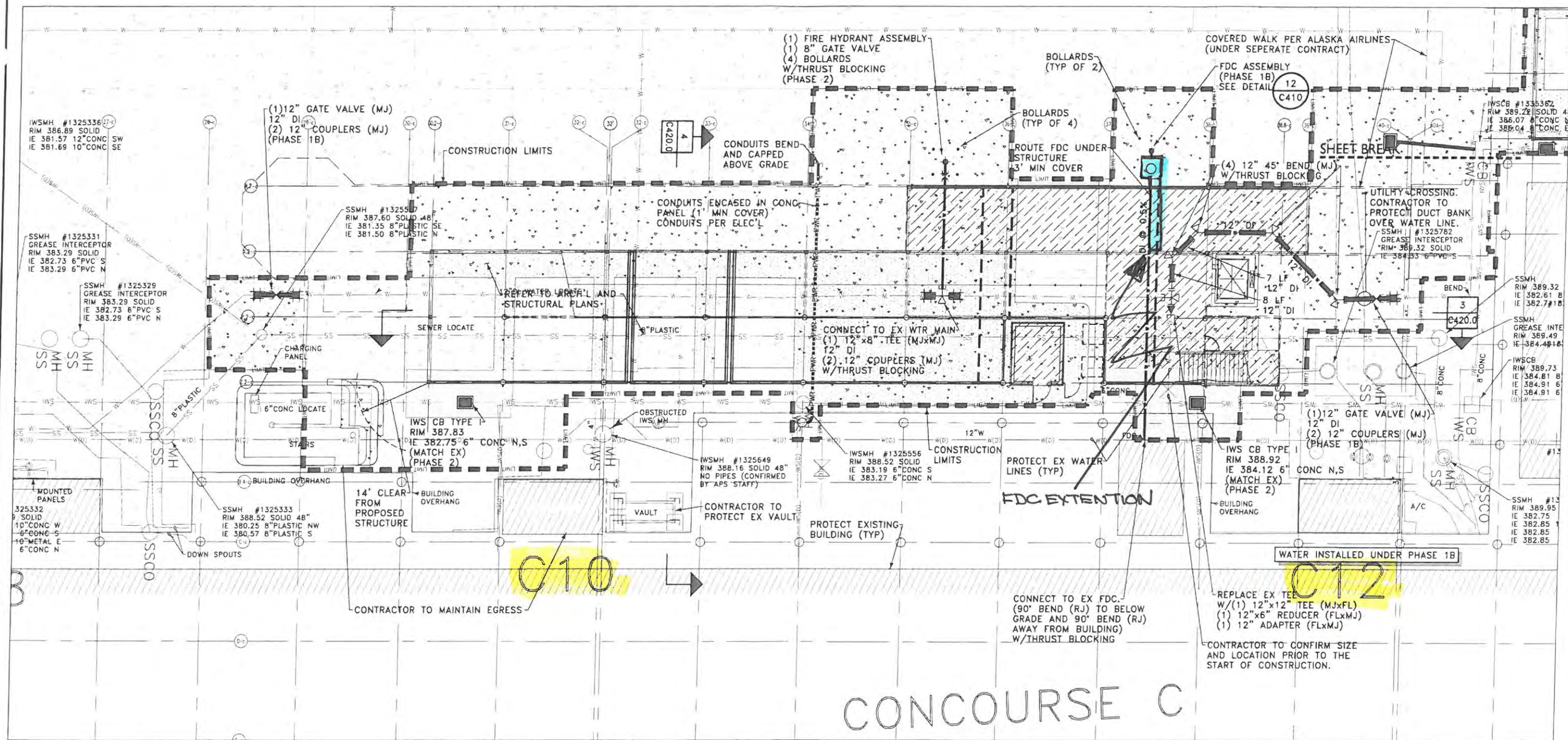
Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO:
104784
CONSULTANT'S NO:
2011079
PORT OF SEATTLE NO:
STIA-1314 C301.1

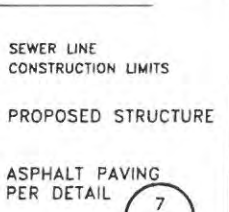
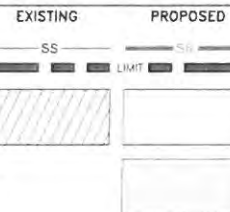
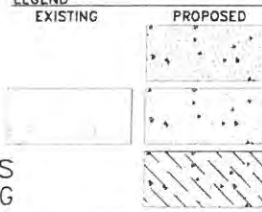
CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND

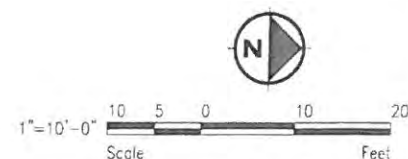


JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12
SCALE: 1" = 10'-0"



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STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR./ARCH:
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JMB



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAWN BY:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO:
104784
CONSULTANT'S NO:
2011079
PORT OF SEATTLE NO:
STA-1314 C301.2

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	10/15/2014	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction areas at the time of the inspection.

Photo Log

Date	Time	Photo #	Description
10/15/2014	10:51	01	Concourse C Work Area



Photo 01: Concourse C Work Area (10/15/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C2 and C10/12

Start Date: 10/20/2014

End Date: 10/26/2014

Environmental Agent: C. Marciniac, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
B	1	15	ESF-CBSW	A/B	3	45	ESF-CBSW
D	1	15	NA	A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
N/A								

OBSERVATIONS:

Gate C2

Excavation work to reroute the IWS line between C2 and C4 continued during the week. Soil encountered in the west portion of the excavation was brown to gray silty sand with gravel, no staining, no odors, PID=0.0ppm (Type D 'clean' material). Glycol impacted soil (Type 'B' material) was encountered at the east end of the excavation. ~15 tons of glycol impacted soil was hauled to Environmental Stockpile Facility - Center Bay South Wall (ESF-CBSW) for temporary storage and ~15 tons of clean soil was hauled offsite. Minor amounts of Type B soil and clean soil were excavated and are temporarily stored on site separately and covered with plastic.

Gate C10/12

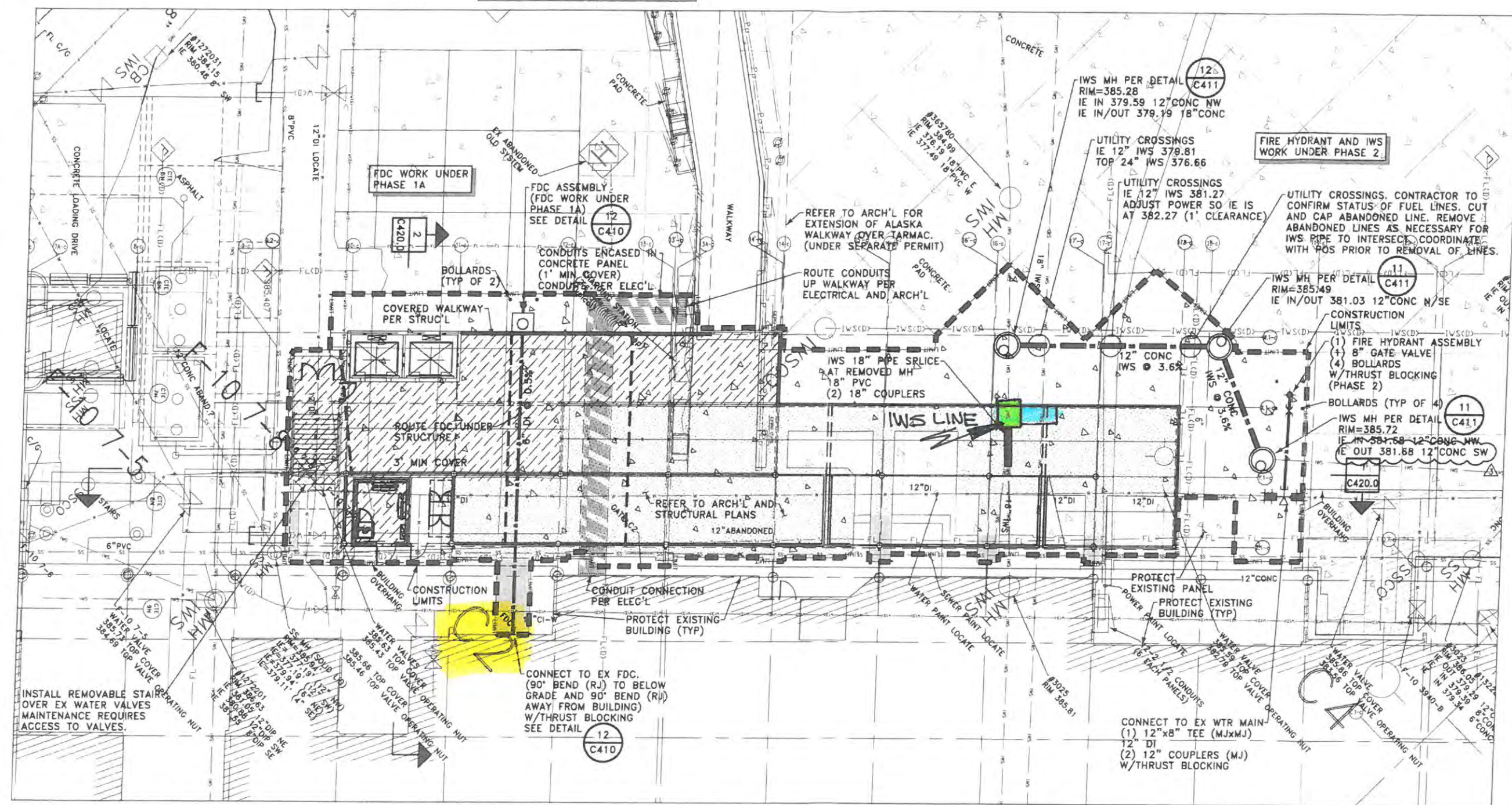
Excavation work for a grade beam during the week occurred just south of the elevator shaft at Gate C-12. The soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=0.0ppm (Type D 'clean' material). All clean soil was temporarily stored on site and covered with plastic. A copy of the pollution prevention plan inspection is also attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND
EXISTING

PROPOSED

6" CONCRETE SIDEWALK

HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL

CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL C412

CIVIL SITE PLAN

RAMP LEVEL

GATE C2

SCALE: 1" = 10'-0"

WKE: 10.26.2014

1"=10'-0" 10 5 0 10 20
Scale Feet

OAC
701 Denny Avenue North
Suite 201
Seattle, WA 98109-4342
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206.283.4371
www.oacwa.com

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PROJECT ENGR/ARCH:
CPL
DESIGNER
JWB
DRAWN BY
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JWB
CHECKED/APPROVED BY:
JAU



NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	12-16-13	AB	ADDENDUM NO. 2						
2	12-20-13	AB	ADDENDUM NO. 3						
3	12-27-13	AB	ADDENDUM NO. 4						

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAWN BY:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

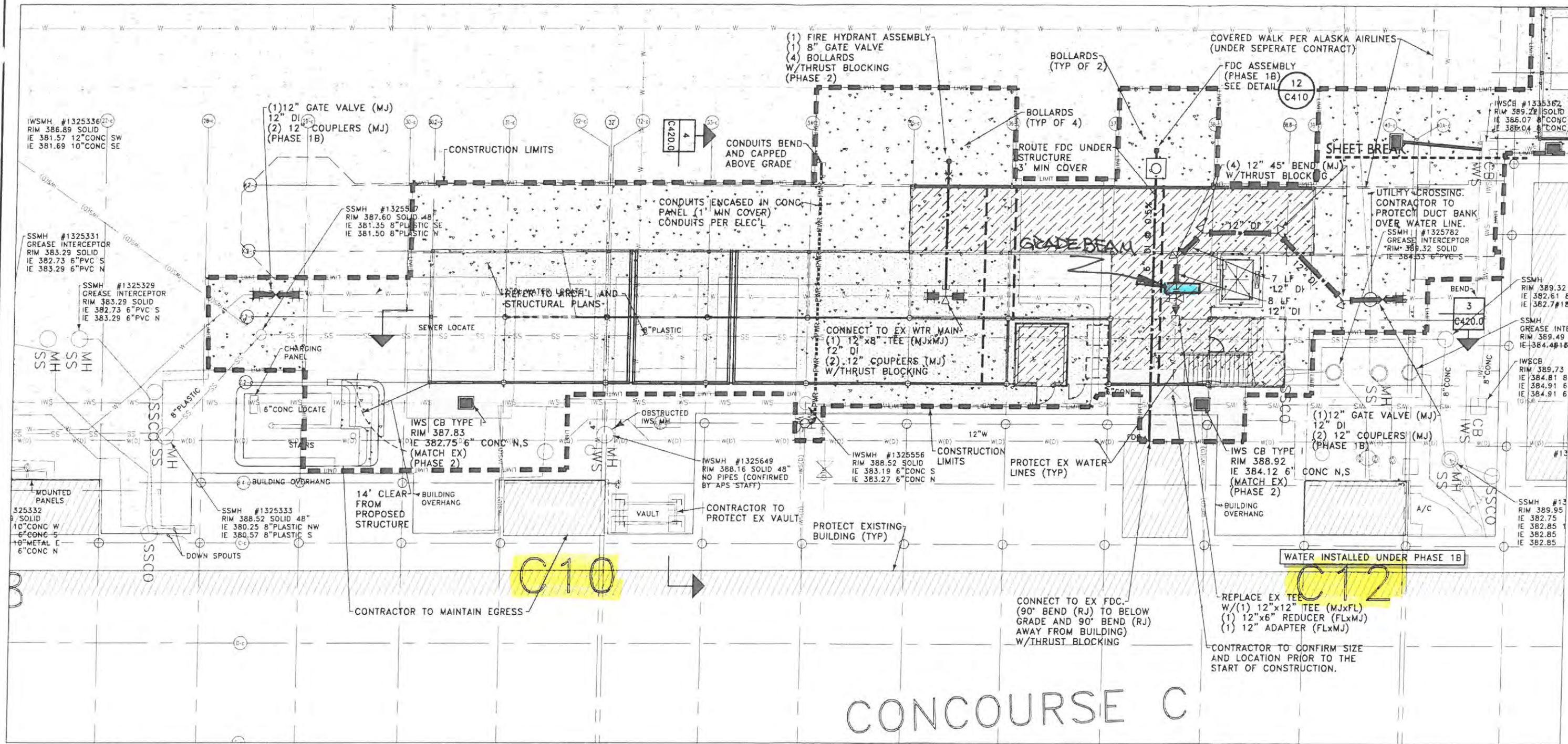
Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO:
104784
CONSULTANT'S NO:
2011079
PORT OF SEATTLE NO:
STA-1314 C301.1

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

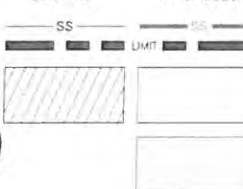


LEGEND
EXISTING
PROPOSED



6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUCT'L

EXISTING
PROPOSED



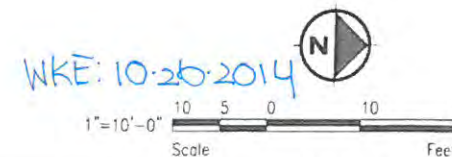
SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1
NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2
NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12
SCALE: 1" = 10'-0"



CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

SEE SHEET C001 FOR OVERALL LEGEND

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LUNDEEN**

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F: 206/343-5691
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STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR./ARCH.
CPL
DESIGNER
JMB
DRAWN BY
PRW
SCALE
AS SHOWN
DATE
10/07/13
CHECKED BY
JMB
CHECKED/APPROVED BY
JAL



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	AG.

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAFTER
SCALE
DATE
CHECKED/APPROVED BY
SCP

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.2

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	10/21/2014	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction areas at the time of the inspection.

Photo Log

Date	Time	Photo #	Description
10/21/2014	08:35	01	Concourse C Work Area



Photo 01: Concourse C Work Area (10/21/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gates C2 and C10/12

Start Date: 10/27/2014

End Date: 11/2/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	15	NA	A/B	3	45	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #
10/30/2014	1102	001-103014			
10/30/2014	1109	002-103014			

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
POS	10/30/2014	Yes	8'	12"				~100 gallons

OBSERVATIONS:

Gate C2

Excavation work to reroute the IWS line between C2 and C4 continued during the week. Glycol impacted soil (Type 'B' material) was encountered at the east end of the excavation. Impacted soil remained onsite and was covered with plastic.

Excavation work to cut and cap an abandoned 12" fuel line occurred in the west portion of the C2 work area. Soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=0.0ppm (Type D 'clean' material). Excavated soil remained onsite and was covered with plastic. The contents of the fuel line (mostly water, with a minor amount of fuel) was pumped out on 10/30/14 using a vactor truck. ~100 gallons of the water/fuel mix was removed from the fuel line.

Gate C10/12

The contractor removed concrete panels at the southern end of the C10/12 work area to facilitate some water valve work. The soil encountered was brown to gray silty sand with gravel, no staining, no odors, PID=0.0ppm (Type D 'clean' material).

Some of the clean soil was hauled offsite - any soil remaining on site was covered with plastic.

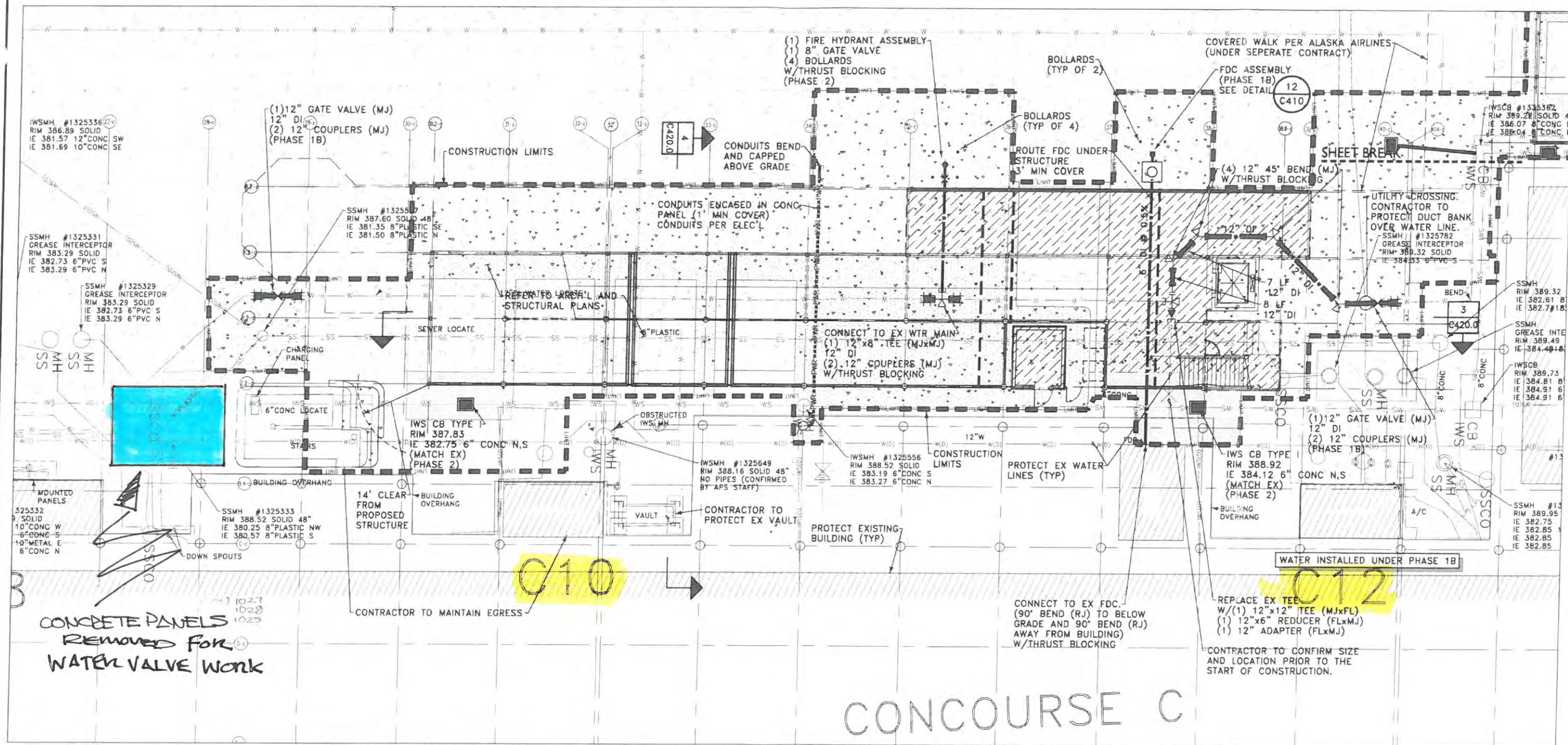
A copy of the pollution prevention plan inspection is also attached.

Attached Map ☒ Yes ☐ No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



CONCRETE PANELS
Removed for
WATER VALVE WORK

LEGEND
EXISTING

PROPOSED

6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12

SCALE: 1" = 10'-0"

WKE: 11.02.2014



1"=10'-0"
Scale 10 5 0 10 20
Feet

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ENGINEERING CORPORATION



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STA-1314 C301.2



Photo 001-103014

Looking southwest at a hole cut into the 12" fuel line at Gate C2 to facilitate removal of product and water from the pipe.



Photo 002-103014

Looking south at the section of 12" fuel line at Gate C2 to be cut and capped following removal of product and water from the pipe.

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	10/28/2014	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction areas at the time of the inspection.

Photo Log

Date	Time	Photo #	Description
10/28/2014	08:35	01	Concourse C Work Area



Photo 01: Concourse C Work Area (10/21/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C2

Start Date: 11/3/2014

End Date: 11/9/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	15	NA	A/B	5	75	ESF-CBSW
A/B	2	15	ESF-CBSW	A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #
11/5/2014	1107	1105014-01			

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
								~100 gallons

OBSERVATIONS:

Gate C2

Excavation work to reroute the IWS line between Gates C2 and C4 continued during the week. Glycol impacted soil (Type 'B' material) was encountered throughout the excavation. ~30 tons of impacted soil was hauled to the stockpile facility and ~60 tons of impacted soil remained onsite and was covered with plastic. The contractor plans to haul the remaining impacted soil from the Gate C2 work area to the stockpile facility at the beginning of the week.

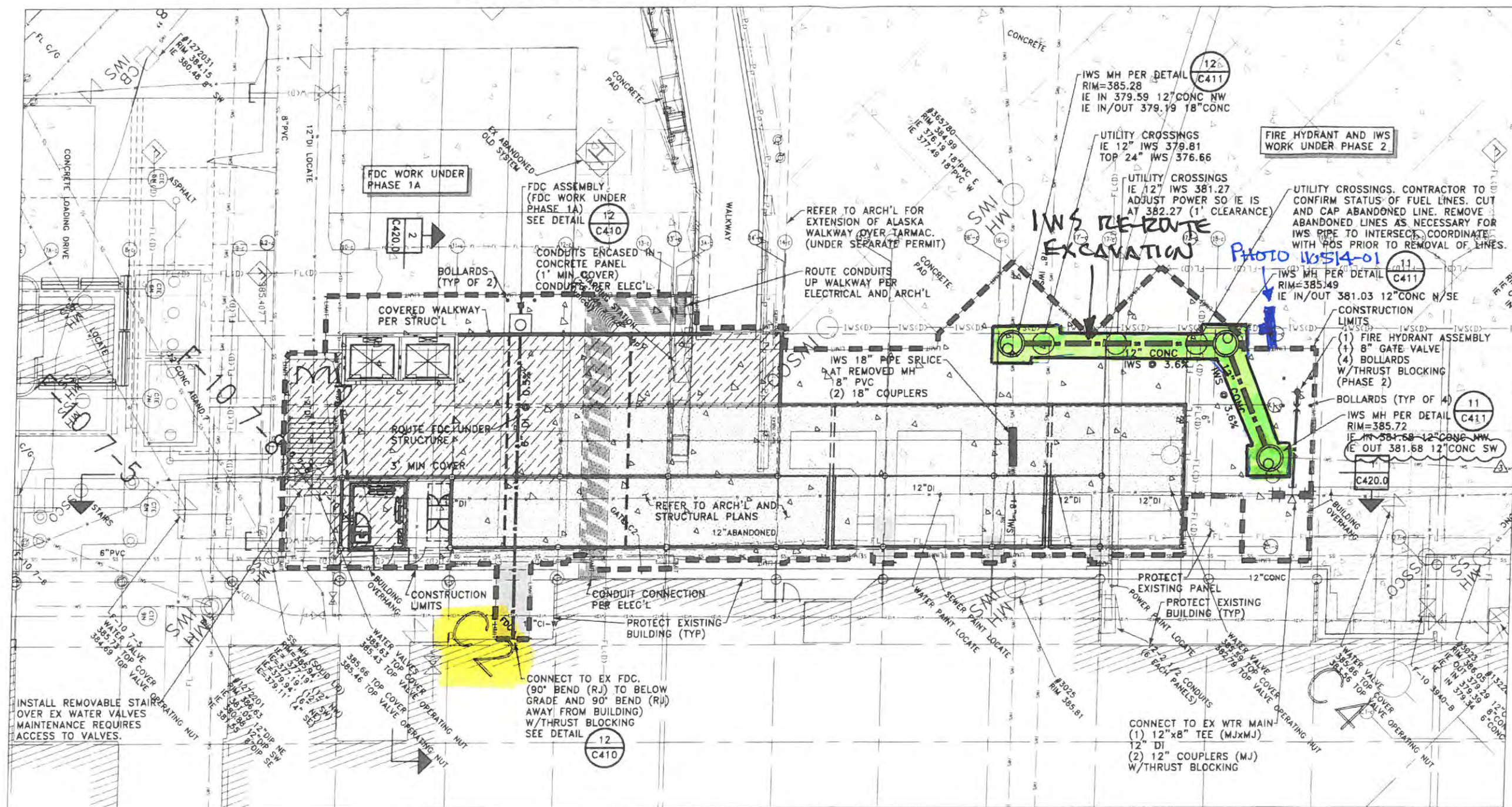
A copy of the pollution prevention plan inspection is also attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND
EXISTING

PROPOSED

6\"/>

HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12\"/>

CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL
GATE C2

SCALE: 1\"/>

WK END 11-09-14

1\"/>

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ENGINEERING CORPORATION

PROJECT ENCL./ARCH:
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAJ



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D.	NO.	DATE	BY	DESCRIPTION	APP'D.
1	12-16-13	JMB	ADDendum NO. 2						
2	12-20-13	JMB	ADDendum NO. 3						
3	12-27-13	JAJ	ADDendum NO. 4						

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO:
104784
CONSULTANT'S NO:
2011079
PORT OF SEATTLE NO:
STIA-1314 C301.1



Photo 110514-01

Looking southeast at the IWS re-route trench excavation in the western portion of the Gate C2 work area – glycol impacted soil (gray staining) was predominantly encountered throughout the excavation.

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	11/4/2014	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction areas at the time of the inspection.

Photo Log

Date	Time	Photo #	Description
11/4/2014	09:35	01	Concourse C Work Area



Photo 01: Concourse C Work Area (11/4/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gates C2 & C14

Start Date: 11/10/2014

End Date: 11/16/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	15	NA	A/B	10	150	ESF-CBSW
A/B	5	15	ESF-CBSW	A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
								~100 gallons

OBSERVATIONS:

Gate C2

Excavation work to reroute the IWS line between Gates C2 and C4 continued during the week. Clean soil (Type 'D' material) was encountered in NW portion of the work area to install a new IWS catch basin. The clean soil was hauled offsite.

Five loads (~75 tons) of Type B soil, excavated the previous week, was hauled from the C2 work area to the stockpile facility.

Gate C14

Excavation work to remove subgrade below 3 concrete panels at C14 occurred during the week. Clean soil (Type 'D' material) was encountered in the north and south panels, and glycol impacted soil (Type 'B' material) was encountered below the middle panel.

The clean soil was hauled offsite and ~15 tons of glycol impacted soil remained on site, covered with plastic.

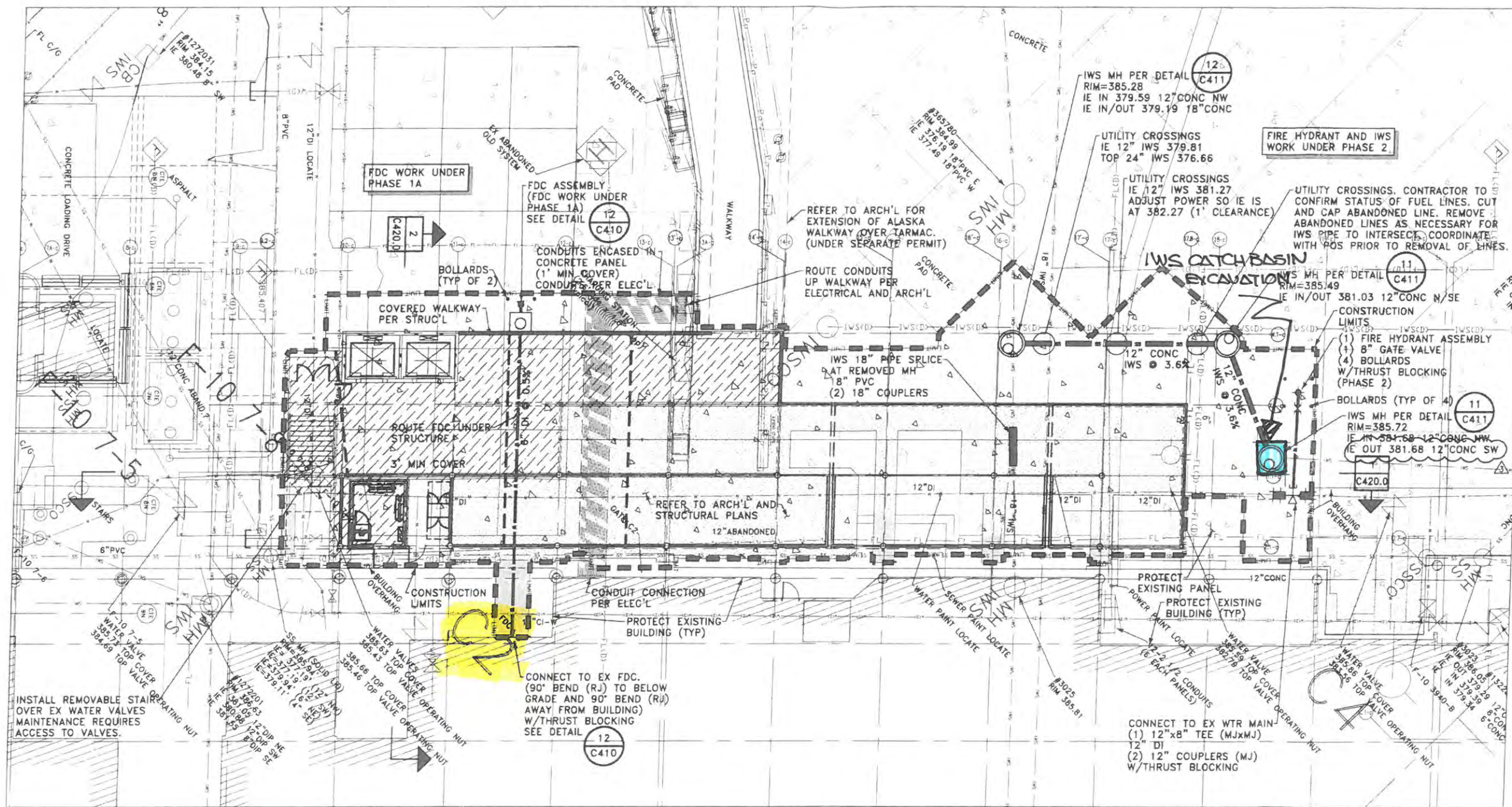
A copy of the pollution prevention plan inspection is also attached.

Attached Map ☒ Yes ☐ No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND



6\"/>



SEWER LINE CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING PER DETAIL

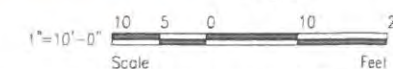
JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C2
SCALE: 1" = 10'-0"

WKE: 11.16.2014



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SEE SHEET C001 FOR OVERALL LEGEND

REVISIONS

NO.	DATE	BY	DESCRIPTION	APPROVED	NO.	DATE	BY	DESCRIPTION	APPROVED
1	12-16-13	JMB	ADDENDUM NO. 2		2	12-29-13	JMB	ADDENDUM NO. 3	
2	12-29-13	JMB	ADDENDUM NO. 3		3	12-27-13	JAU	ADDENDUM NO. 4	

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DISION ENGINEER
DRAWER
SCALE
DATE
CHECKED/APPROVED BY
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STA-1314 C301.1

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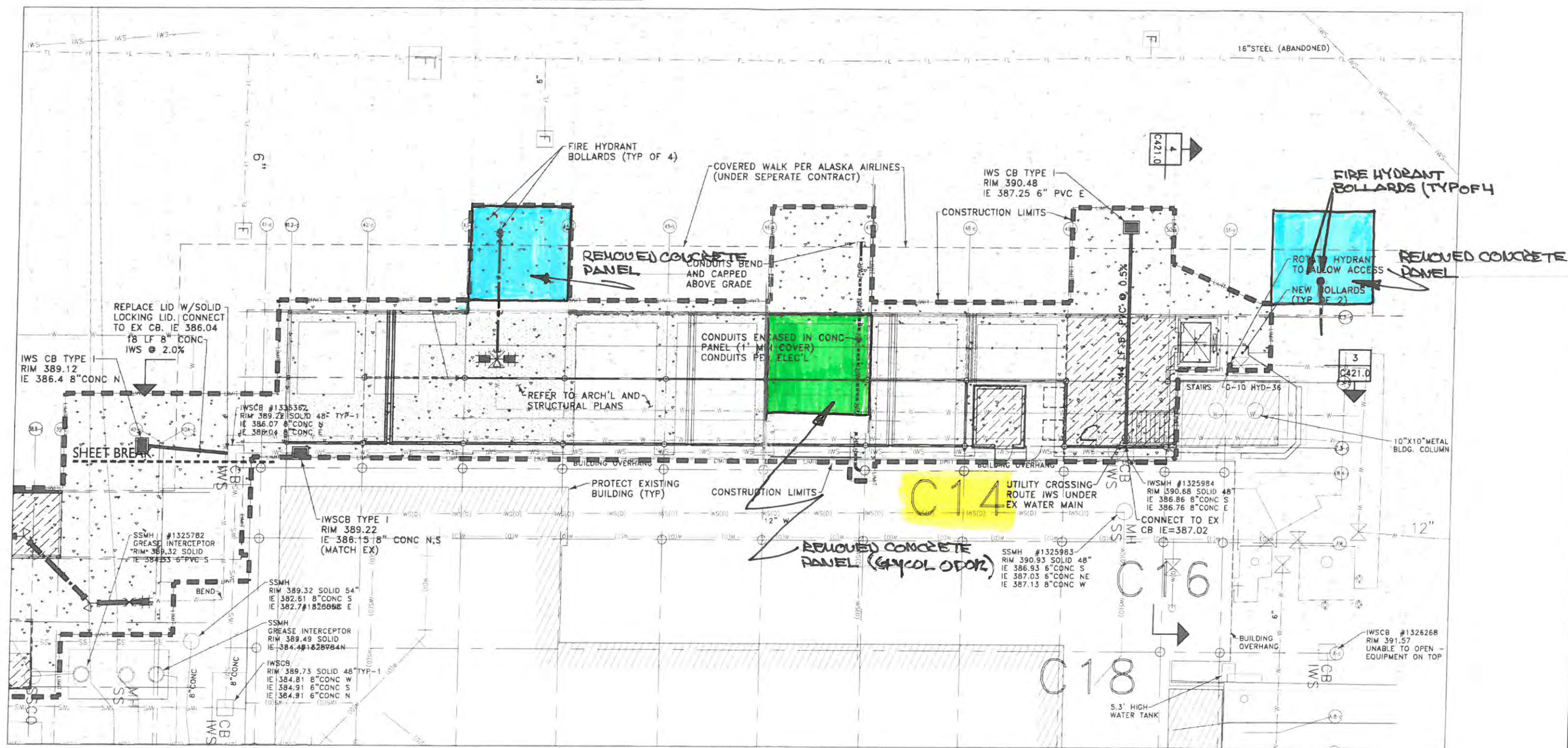
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ENGINEERING CORPORATION



CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND

EXISTING

PROPOSED

6\"/>

HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12\"/>

CONCRETE SLAB ON
GRADE PER STRUCT'L

EXISTING

PROPOSED

SS

LIMIT

SEWER LINE

CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING

PER DETAIL

7

C410

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C14

SCALE: 1" = 10'-0"

WKE; 11-16-2014



1"=10'-0"
Scale 10 5 0 10 20
Feet

CALL 2 DAYS
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PROJECT ENGR/ARCH
CPL
DESIGNER
JMB
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AS SHOWN
DATE
10/07/13
CHECKED BY
JMB
CHECKED/APPROVED BY
JAJ



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAWN BY
SCALE
DATE
CHECKS/APPROVE BY
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C14

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.3

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	11/12/2014	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
11/12/2014	09:37	01	Concourse C Work Area

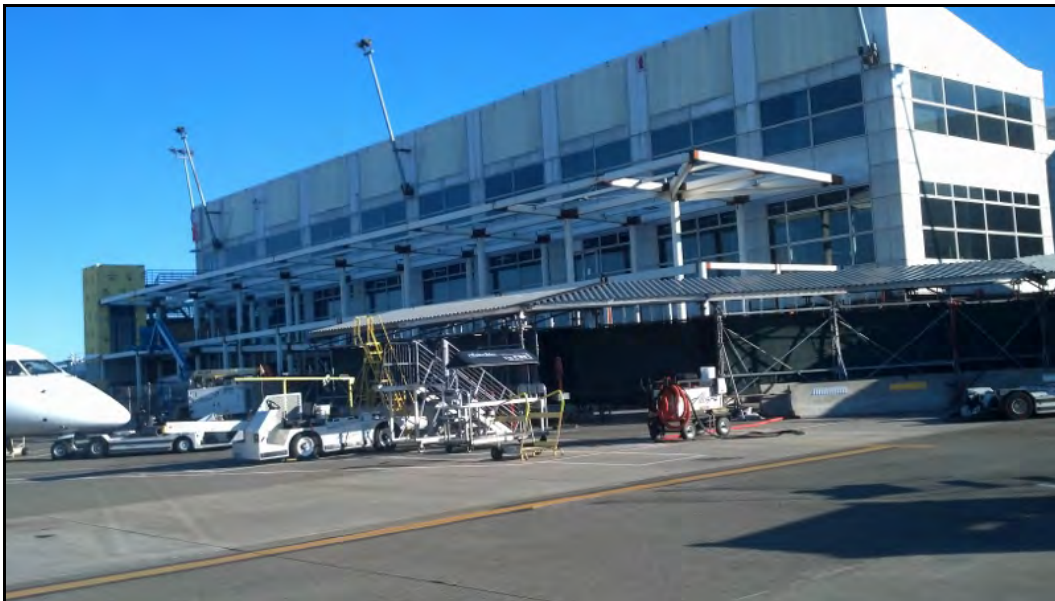


Photo 01: Concourse C Work Area (11/12/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C2

Start Date: 11/17/2014

End Date: 11/23/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	15	NA	A/B	10	150	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
								~100 gallons

OBSERVATIONS:

Gate C2

Excavation work during the week at Gate C2 included removing an existing fire hydrant and repairing a water line. Clean soil (Type 'D' material) was encountered in all excavation areas at C2 for the week. Some clean soil was hauled offsite, while the remaining clean soil was stockpiled on site and covered.

~150 tons of impacted soil remains covered at the stockpile facility and ~15 tons of impacted soil remains covered at Gate C14.

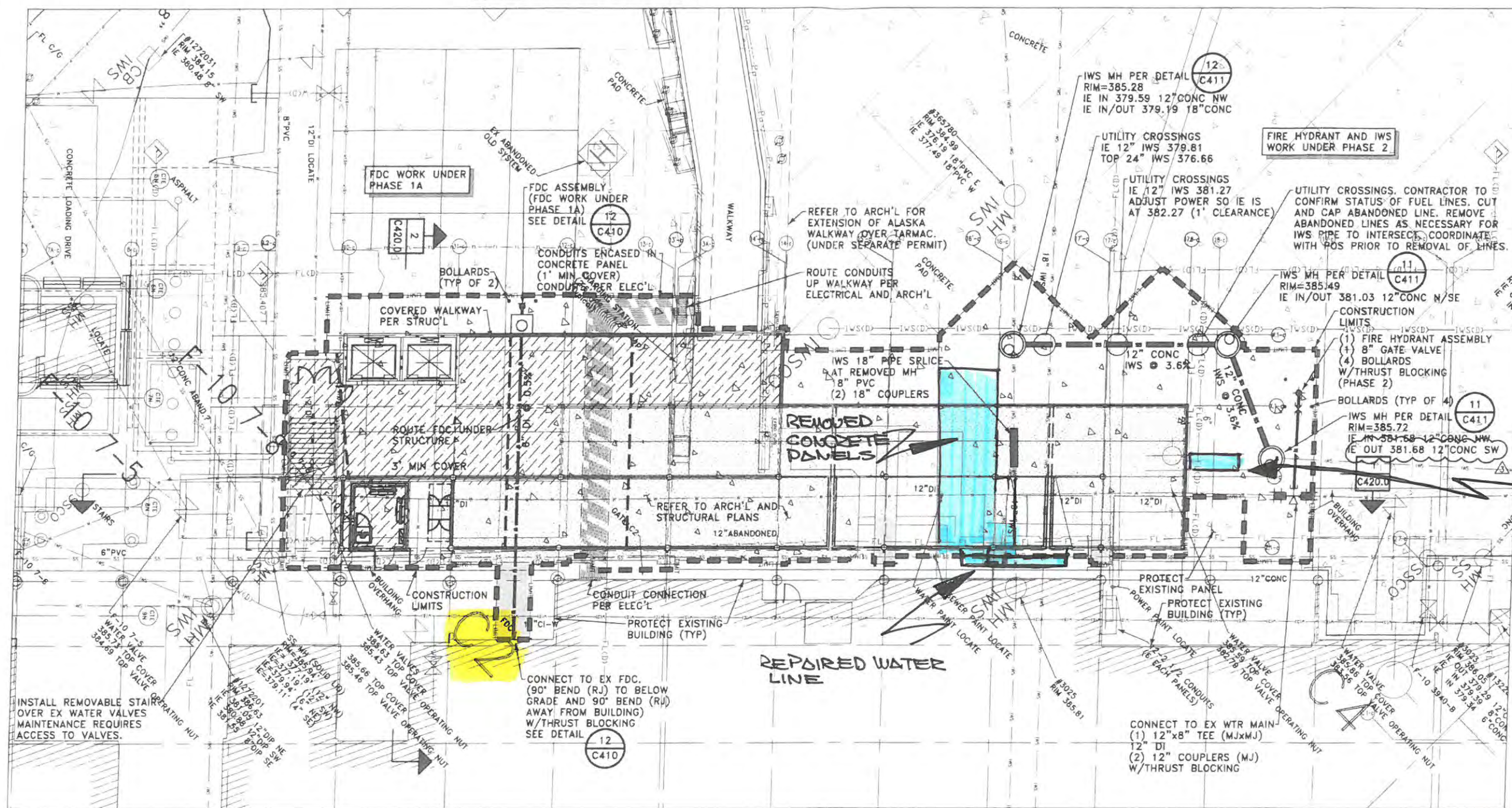
A copy of the pollution prevention plan inspection is also attached.

Attached Map ☒ Yes ☐ No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



REMOVED EXISTING FIRE HYDRANT AND PIPING:

LEGEND

EXISTING

PROPOSED

6" CONCRETE SIDEWALK

HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/4 BARS
12" O.C. EACH WAY PER DETAIL

CONCRETE SLAB ON
GRADE PER STRUCT

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL
GATE C2

SCALE: 1" = 10'-0"

WKE: 11-23-2014



1"=10'-0"
Scale 10 5 0 10 20
Feet

CALL 2 DAYS
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SEE SHEET C001 FOR OVERALL LEGEND

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PROJECT ENGR./ARCH:
CPL
DESIGNER:
JMB
CHECKED BY:
PRW
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAJ



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D.	NO.	DATE	BY	DESCRIPTION	APP'D.
1	12-16-13	JMB	ADDendum NO. 2						
2	12-29-13	JMB	ADDendum NO. 3						
3	12-27-13	JMB	ADDendum NO. 4						

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAWER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCF

Port
of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.1

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	11/18/2014	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
11/18/2014	13:32	01	Concourse C Work Area



Photo 01: Concourse C Work Area (11/18/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C10/12

Start Date: 11/24/2014

End Date: 11/30/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
B	2	15	ESF-CBSW	A/B	12	180	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
								~100 gallons

OBSERVATIONS:

Gate C10/12

Excavation work during the week at Gate C10/12 included an IWS trench and catch basin near the north end of the work area. (Type D 'clean' soil) was encountered in the IWS trench and western portion of the catch basin. Type B soil (glycol odor) was encountered in the eastern portion of the catch basin excavation. For the week, ~30 tons of Type B glycol impacted soil was hauled to the Environmental Stockpile Facility-Center Bay South Wall (ESF-CBSW) for temporary storage. ~180 tons of impacted soil remains covered at the stockpile facility. A copy of the pollution prevention plan inspection is also attached.

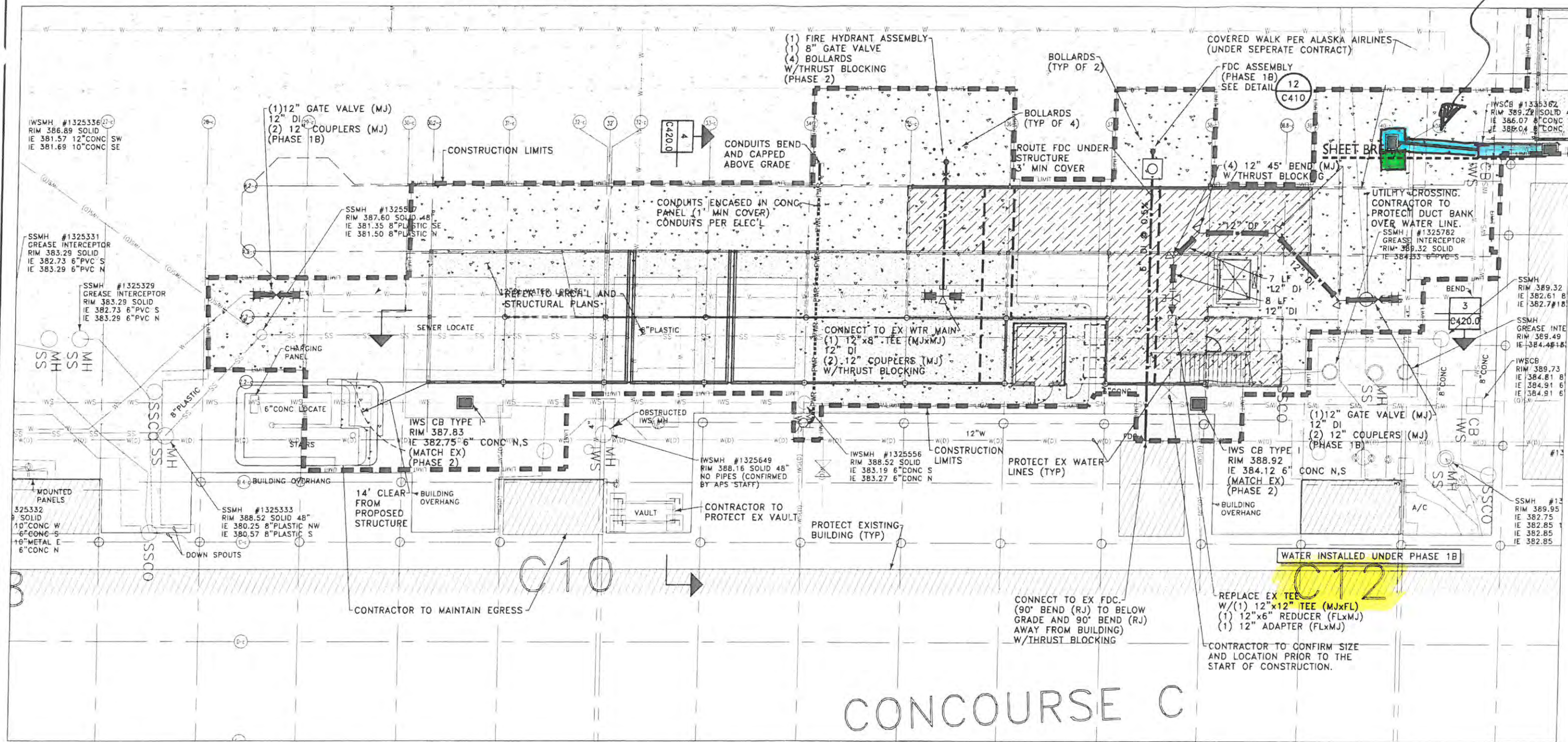
Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

IWS Catch basin & Tie-in



LEGEND

EXISTING

PROPOSED

6" CONCRETE SIDEWALK

HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL

CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12

SCALE: 1" = 10'-0"

WKE: 11.30.2014



1"=10'-0"
Scale Feet

CALL 2 DAYS
BEFORE YOU DIG
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SEE SHEET C001 FOR OVERALL LEGEND

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F: 206/343-5691
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR./ARCH:
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAL



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAFTER
SCALE
DATE
CHECKED/APPROVED BY:
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT

PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO:
104784
CONSULTANT'S NO:
2011079
PORT OF SEATTLE NO:
STIA-1314 C301.2

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	11/25/2014	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
11/25/2014	08:25	01	Spill kits in place at the logistics laydown area



Photo 01: Logistics Laydown Area (11/25/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C2

Start Date: 12/1/2014

End Date: 12/7/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	15	NA	A/B	12	180	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #
12/5/2014	915	Photo # 120514-01			

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
								~100 gallons

OBSERVATIONS:

Gate C2

Excavation work during the week at Gate 2 included: 1) grade beam footings; and 2) minor grading where additional concrete panels were removed. Type D 'clean' soil was encountered in the majority of the excavation areas. Type B petroleum-impacted soil was encountered in the northern portion of the center grade beam excavation. Approximately 3 tons of Type B impacted soil covered and temporarily stored on site.

~180 tons of impacted soil remains covered at the stockpile facility.

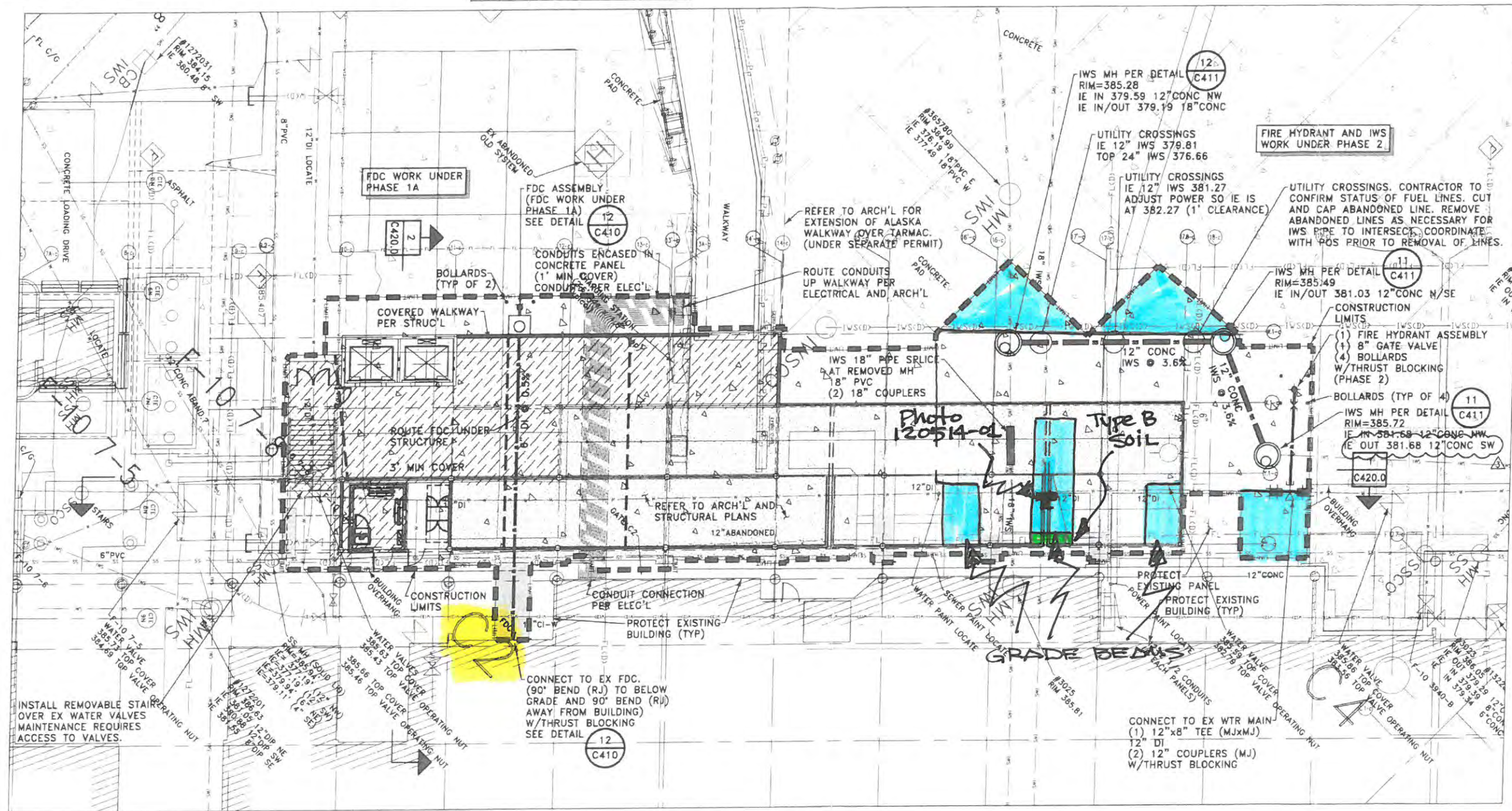
A copy of the pollution prevention plan inspection is also attached.

Attached Map ☒ Yes ☐ No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND
EXISTING
PROPOSED

6\"/>

EXISTING
PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL
GATE C2

SCALE: 1\"/>

WKE/12-07-2014

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STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR/ARCH:
CPL
DESIGNER:
JMB
CHECKED BY:
JMB
DATE:
10/07/13
CHECKED/APPROVED BY:
JAJ



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D.	NO.	DATE	BY	DESCRIPTION	APP'D.
1	12-18-13	JMB	ADDENDUM NO. 2						
2	12-20-13	JMB	ADDENDUM NO. 3						
3	12-27-13	JAJ	ADDENDUM NO. 4						

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

**Port
of Seattle**

SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO:
104784
CONSULTANT'S NO:
2011079
SHEET OF SHEET NO:
STIA-1314 C301.1



Photo 120514-01

Looking northeast at the center grade beam excavation at Gate C2. All soil was Type D 'clean' material, except for the northern-most portion of the excavation where Type B petroleum-impacted soil was encountered around an abandoned fuel line. Approximately 3 tons of impacted soil was excavated, covered and temporarily stored on site.

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	12/2/2014	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
12/2/2014	08:06	01	Concourse C Work Area

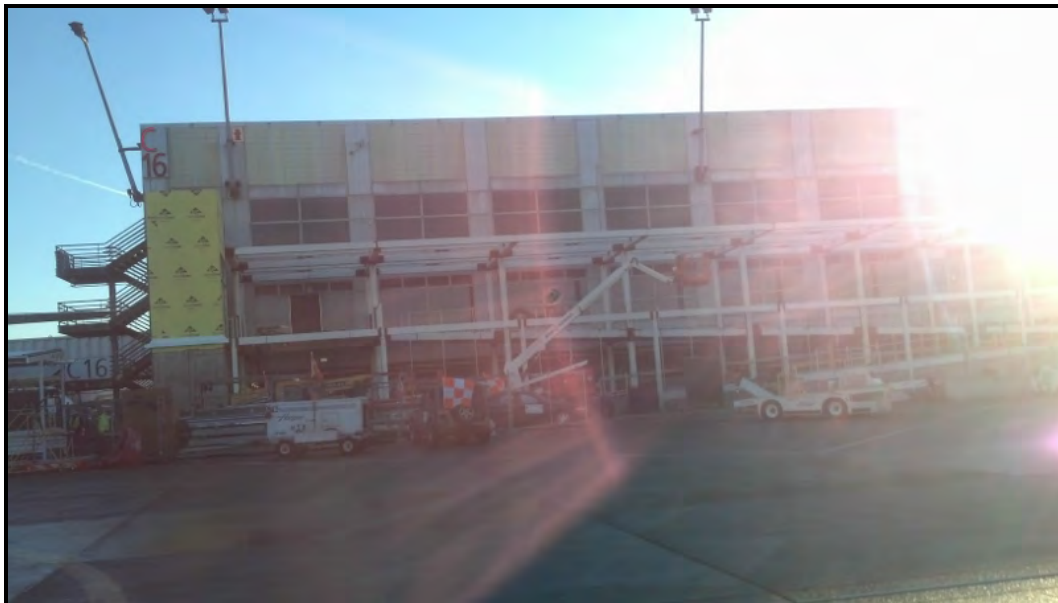


Photo 01: Concourse C Work Area (12/2/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C2

Start Date: 12/8/2014

End Date: 12/14/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	15	NA	A/B	13	195	ESF-CBSW
A/B	1	15	ESF-CBSW	A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #
12/11/2014	931	Photo # 121114-01	12/12/2014	1220	Photo # 121214-01
12/11/2014	933	Photo # 121114-02			

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
POS	12/12/2014	None	10	12"				~150 gallons
POS	12/12/2014	None	10	6"				~50 gallons

OBSERVATIONS:

Gate C2

Excavation work during the week at Gate C2 included: 1) grade beam footings; 2) minor grading where additional concrete panels were removed; and 3) exposing fuel lines to be cut and capped. Type D 'clean' soil was encountered in the majority of the excavation areas. Type B petroleum- and glycol-impacted soil was encountered in the eastern-most grade beam excavation. Approximately 45 tons of Type B impacted soil was removed, covered and temporarily stored on site.

~8 feet of 12" and 6" inch fuel lines were removed from the northeast corner and ~2 feet of 12" and 6" fuel lines were removed from the northwest corner of the Phase 2 work area at Gate C2. ~200 gallons of water and fuel mix were removed from the fuel lines.

~15 tons of Type B soil was hauled to the stockpile facility and ~195 tons of impacted soil remains covered at the stockpile facility.

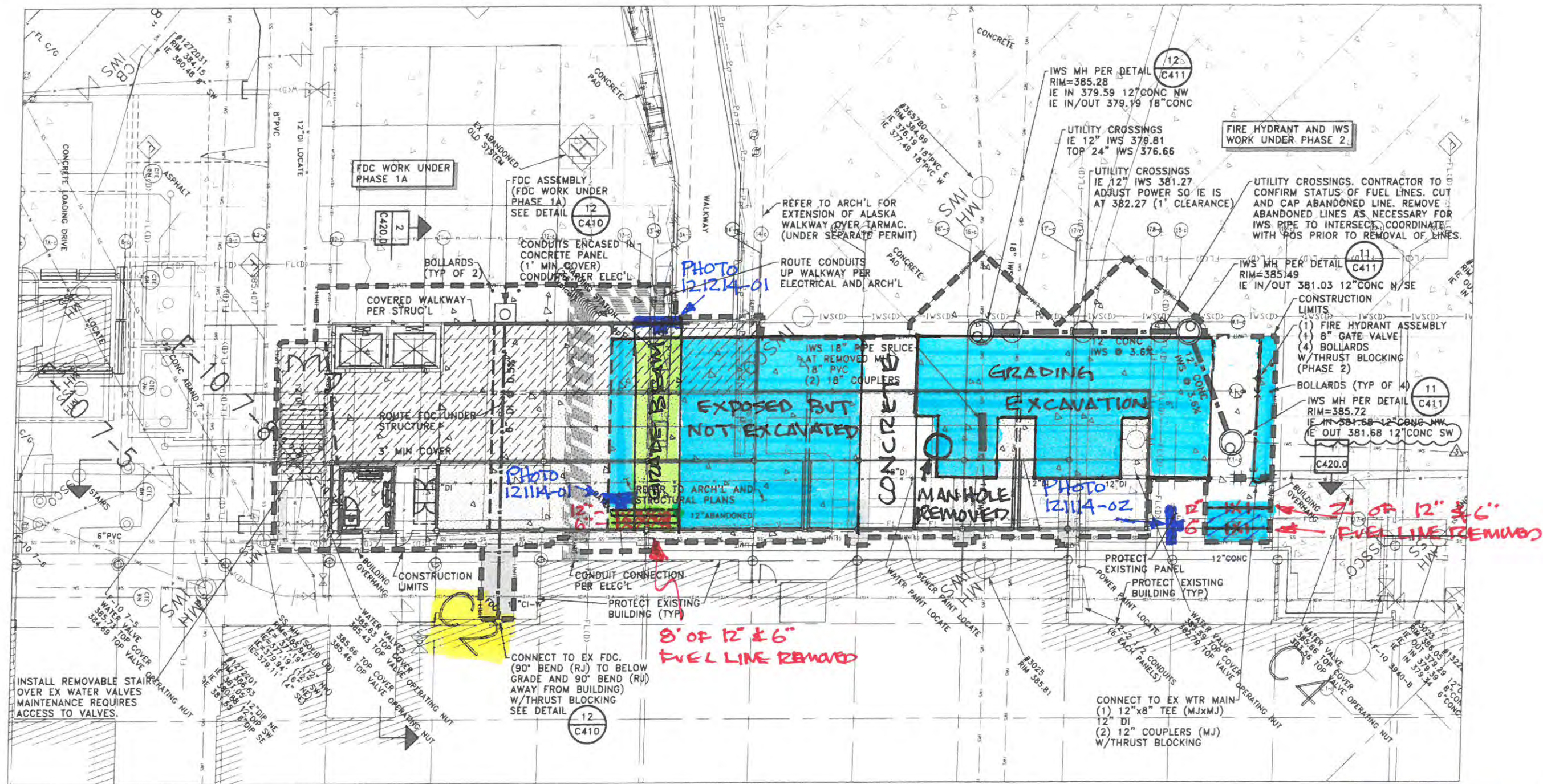
A copy of the pollution prevention plan inspection is attached.

Attached Map ☒ Yes ☐ No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C2
SCALE: 1" = 10'-0"

WK END 12-14-14



CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

LEGEND	EXISTING	PROPOSED
6" CONCRETE SIDEWALK		
HEAVY DUTY CONCRETE PAVING 16 INCHES CONCRETE CEMENT OVER 8 INCHES CRUSHED ROCK BASE COURSE W/ #4 BARS 12" O.C. EACH WAY PER DETAIL		
CONCRETE SLAB ON GRADE PER STRUC'L		

SEE SHEET C001 FOR OVERALL LEGEND

EXISTING	PROPOSED	SEWER LINE CONSTRUCTION LIMITS
		PROPOSED STRUCTURE
		ASPHALT PAVING PER DETAIL 7 C410

REVISIONS

NO.	DATE	BY	DESCRIPTION	APPR'D.	NO.	DATE	BY	DESCRIPTION	APPR'D.
1	12-16-13	JMB	ADDendum NO. 2						
2	12-20-13	JMB	ADDendum NO. 3						
3	12-27-13	JMB	ADDendum NO. 4						

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F: 206/343-5691
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION



PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAWN BY:
SCALE:
DATE:
CHECKED/APP'D BY:
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO:
104784
CONSULTANT'S NO:
2011079
PORT OF SEATTLE NO:
STA-1314 C301.1



Photo 121114-01

Looking northeast at the 12" and 6" abandoned fuel lines near the northeast corner of the Phase 2 work area at Gate C2. The contents of the fuel lines (mostly water) was removed and the lines cut and capped.



Photo 121114-02

Looking northwest at the 12" and 6" abandoned fuel lines near the northwest corner of the Phase 2 work area at Gate C2. The contents of the fuel lines (mostly water) was removed and the lines cut and capped.



Photo 121214-01

Looking northeast at the eastern-most grade beam excavation in the Phase 2 work area at Gate C2. Petroleum-impacted soil was encountered in the northern portion of the excavation near the fuel lines and glycol-impacted soil (gray stained) was encountered in the southern portion of the excavation.

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	12/10/2014	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
12/10/2014	10:25	01	Concourse C Work Area

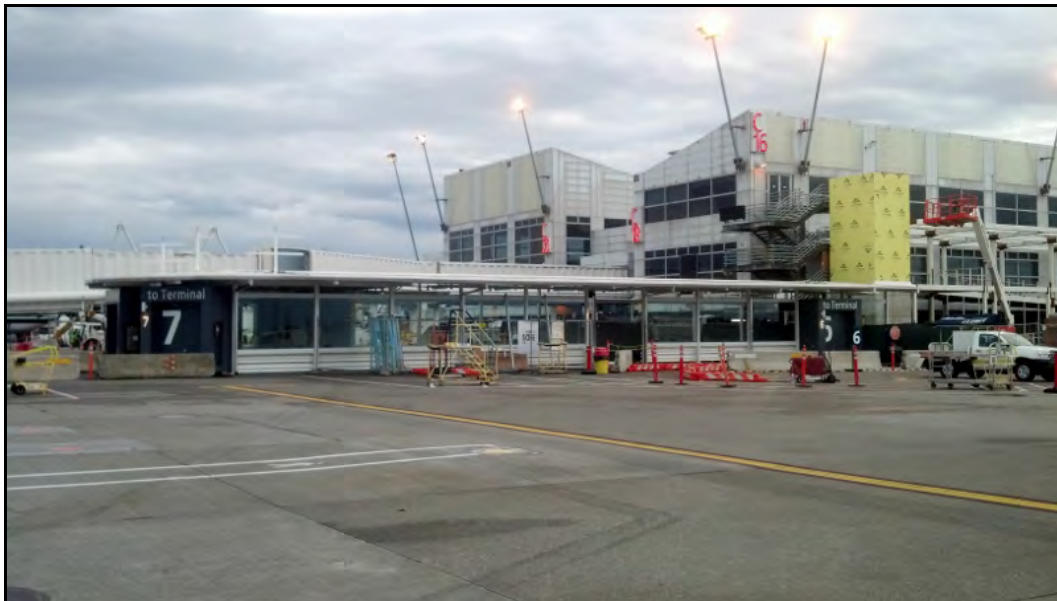


Photo 01: Concourse C Work Area (12/10/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C2

Start Date: 12/15/2014

End Date: 12/21/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	15	NA	A/B	17	255	ESF-CBSW
A/B	4	15	ESF-CBSW	A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C2

Excavation work during the week at Gate C2 included: 1) grade beam footings; and 2) micro-pile drilling inside the footprint of each grade beam excavation. Type D 'clean' soil was encountered in all of the grade beam excavations, except the one furthest east, where Type B petroleum- and glycol-impacted soil was encountered.

For the week, ~60 tons of Type B impacted soil was hauled to the stockpile facility and ~255 tons of impacted soil remains covered at the stockpile facility, awaiting transport to Allied Waste for disposal.

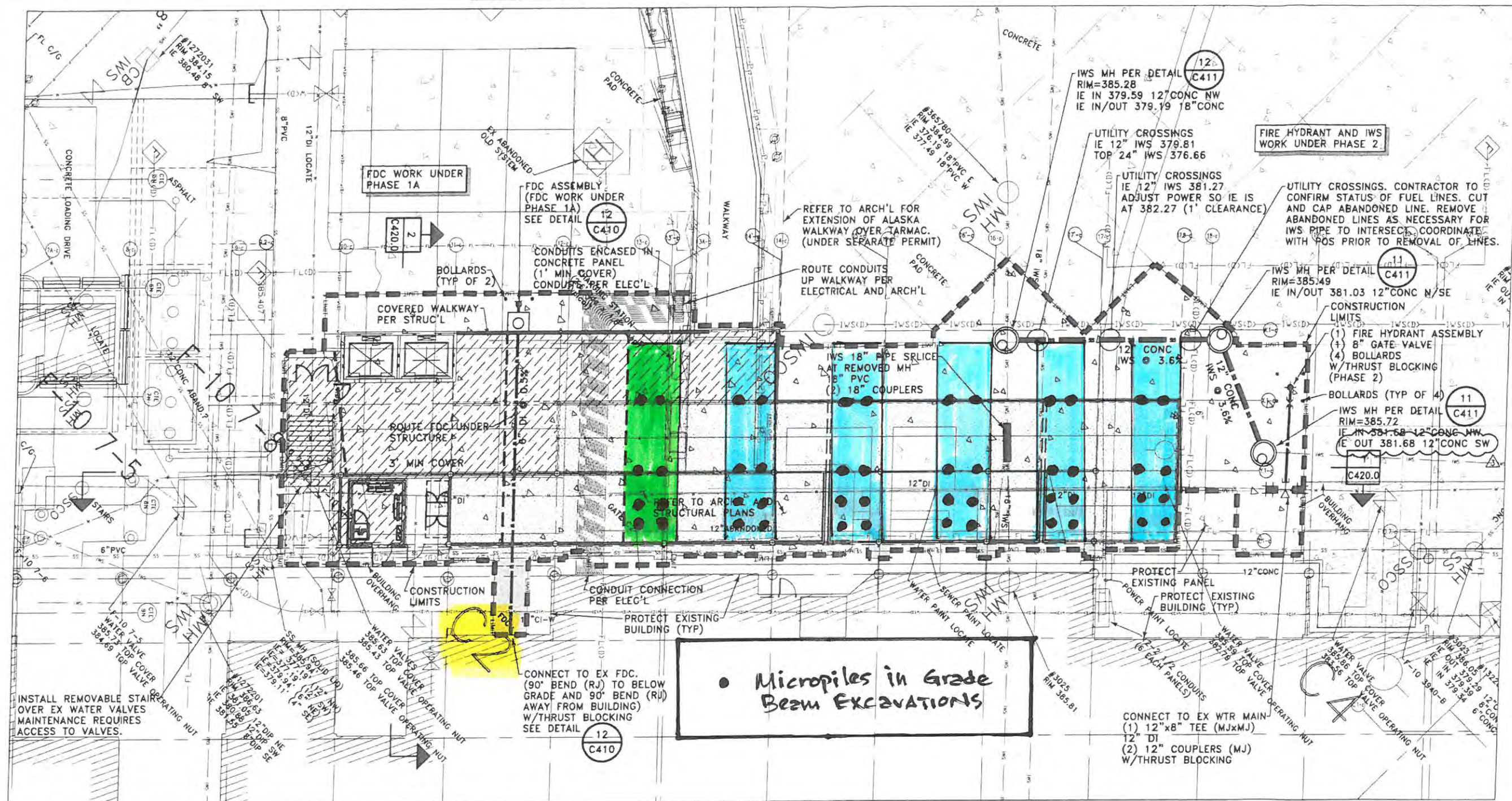
A copy of the pollution prevention plan inspection is attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



• Micropiles in Grade Beam Excavations

LEGEND

EXISTING

PROPOSED

6\"/>

HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12\"/>

CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL
GATE C2

SCALE: 1" = 10'-0"

• FOOTINGS FOR SUPPORT COLUMNS:

1"=10'-0" 10 5 0 10 20
Scale Feet

CALL 2 DAYS
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F: 206/343-5691

PROJECT ENGR./ARCH.
CPL
DESIGNER
JMB
DRAWN BY
PRW
SCALE
AS SHOWN
DATE
10/07/13
CHECKED BY
JMB
CHECKED/APPROVED BY
JAJ



REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	12-18-13	JMB	ADDENDUM NO. 2						
2	12-22-13	JMB	ADDENDUM NO. 3						
3	12-27-13	JAJ	ADDENDUM NO. 4						

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAWER
SCALE
DATE
CHECKED/APPROVED BY
SCP

Port
of Seattle SEA-TAC INTERNATIONAL AIRPORT

PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.1

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	12/16/2014	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
12/16/2014	10:25	01	Logistics Laydown Area



Photo 01: Logistics Laydown Area (12/16/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C2

Start Date: 12/22/2014

End Date: 12/28/2014

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	15	NA	A/B	17	255	ESF-CBSW
				A/B	10	300	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	
POS	12/22&23/14	Yes	~9'	12"				NA

OBSERVATIONS:

Gate C2

Excavation work during the week at Gate C2 included: 1) finish grade for the two far west grade beam footings; and 2) cutting three sections of 12" fuel line to facilitate installation of the grade beams. Type D 'clean' soil was encountered in all of the grade beam excavations during the week.

~255 tons of impacted soil remains covered at the stockpile facility, awaiting transport to Allied Waste for disposal.

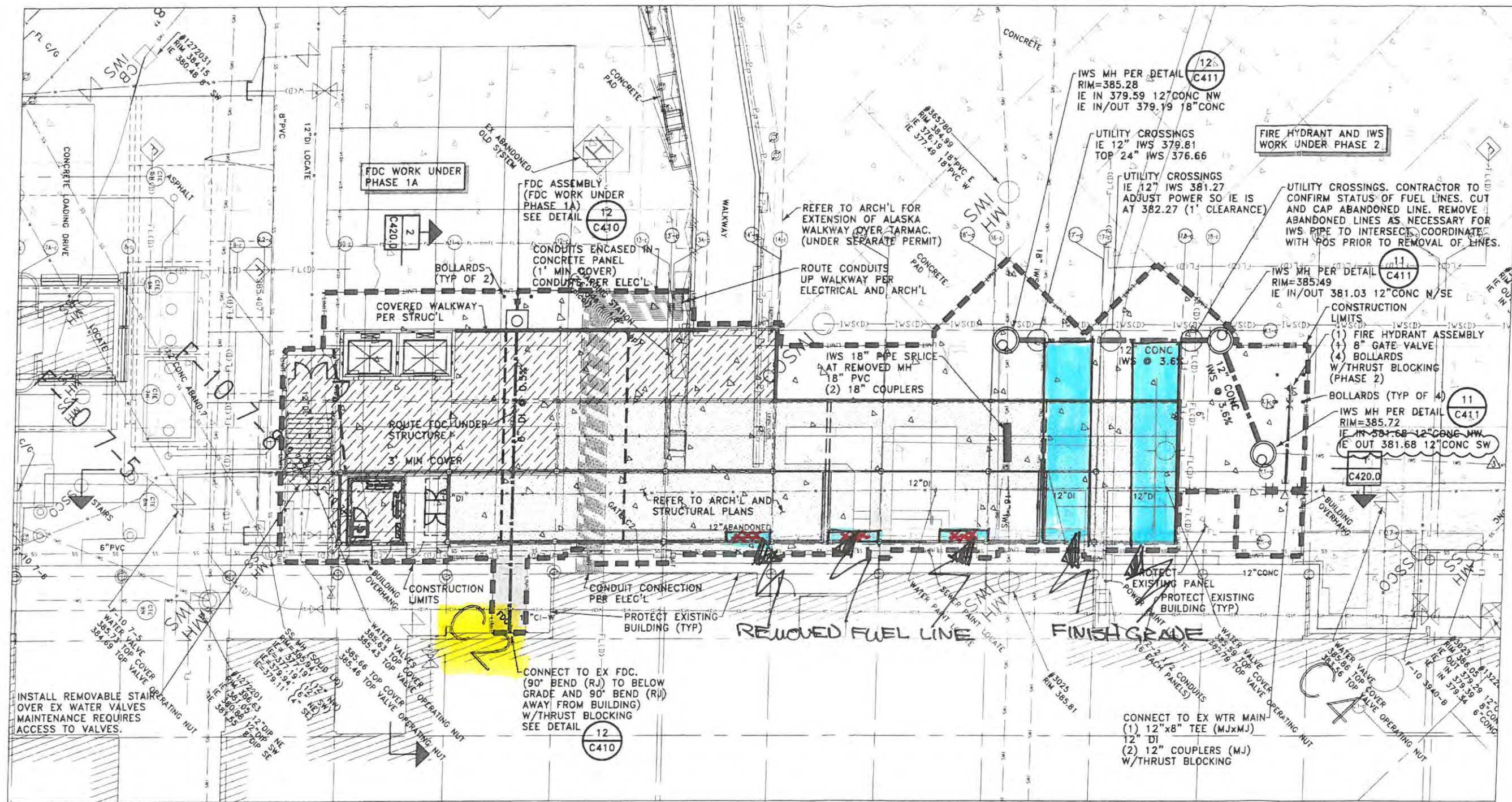
A copy of the pollution prevention plan inspection is attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND
EXISTING

PROPOSED

EXISTING

PROPOSED

6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUCT'L

6
C410

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

7
C410

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

1
C412

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

2
C412

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

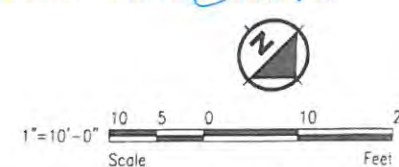
3
C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C2

SCALE: 1" = 10'-0"

WKE: 12-28-2014



CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

SEE SHEET C001 FOR OVERALL LEGEND

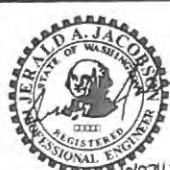
OAC

701 Dexter Avenue North
Suite 201
Seattle, WA 98109-4347
P: 206 285 4300
F: 206 285 4371
WWW.OAC-SEA.COM

**COUGHLIN
PORTER
LUNDEN**

413 PINE STREET - SUITE 300
SEATTLE, WA 98101
P: 206/343-0440
F: 206/343-5691
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR/ARCH:
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAJ



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.
1	12-16-13	JMB	ADDENDUM NO. 2		
2	12-25-13	JMB	ADDENDUM NO. 3		
3	12-27-13	JAJ	ADDENDUM NO. 4		

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAWN BY:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port
of Seattle

SEA-TAC INTERNATIONAL AIRPORT

PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO.

104784

CONSULTANT'S NO.

2011079

PORT OF SEATTLE NO.

STA-1314 C301.1

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	12/23/2014	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
12/22/2014	08:32	01	C Concourse Work Area



Photo 01: C Concourse Work Area (12/22/2014)

2015 WEEKLY EA REPORTS

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C10-12

Start Date: 12/29/2014

End Date: 1/4/2015

Environmental Agent: C. Marciniak, G. Ferris, A. Johnson

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
A/B	9	30	Allied	A/B	19	570	Allied
D	NA	15	NA	D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C10-12

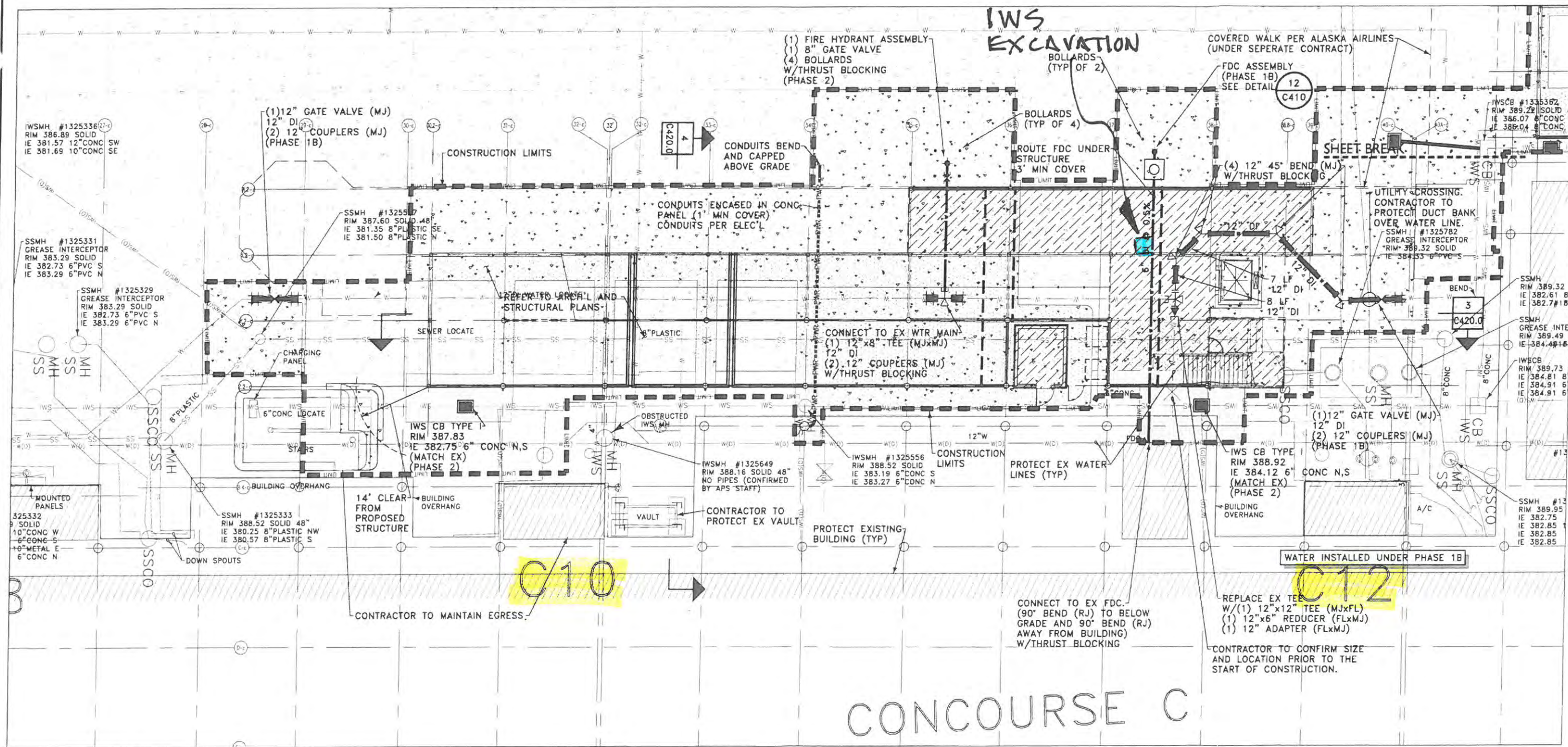
Excavation work during the week at Gate C10-12 included exposing an IWS line just southwest from the elevator shaft near C12. All soil was clean and was temporarily stockpiled on site. Also, clean soil from C2 was hauled to the Environmental Stockpile Facility - Center Bay North Wall (ESF-CBNW) for temporary storage. ~270 tons of impacted soil was hauled from the stockpile facility to Allied Waste for disposal. There is currently no impacted soil from the project remaining at the stockpile facility. A copy of the pollution prevention plan inspection is attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

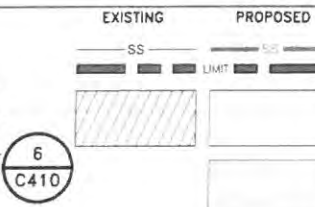
CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND
EXISTING
PROPOSED



6\" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12\" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L



EXISTING
PROPOSED
SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12
SCALE: 1\" = 10'-0\"

WRE: 01-04-2015



1\" = 10'-0\"
Scale
Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

SEE SHEET C001 FOR OVERALL LEGEND

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PORTER
LUNDEEN**

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SEATTLE, WA 98101
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ENGINEERING CORPORATION

PROJECT ENGR./ARCH:
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAJ



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
GRANTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

**Port
of Seattle** SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.2

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	12/29/2014	
HM Inspector, Company	Andrew Johnson, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
12/29/2014	08:46	01	C Concourse Work Area



Photo 01: C Concourse Work Area (12/29/2014)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gate C10-12

Start Date: 1/5/2015

End Date: 1/11/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
A/B	2	5	ESF-CBNW	A/B	19	570	Allied
D	NA	15	NA	D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #
1/7/2015	1400	010715-001			

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C10-12

Excavation work during the week at Gate C10-12 included: 1) removing the stair landing near the south end of C10-12 work area; and 2) excavating for 3 grade beams in the central portion of the C10-12 work area.

Clean soil was encountered below the stairs and throughout the majority of the grade beams. However, glycol impacted soil was encountered in portions of all three grade beam excavations (see attached map).

Some glycol impacted soil (~10 tons) was hauled to the Environmental Stockpile Facility-Center Bay North Wall (ESF-CBNW) for temporary storage. Some of the clean was also hauled offsite.

Small amounts of impacted soil and clean soil remained onsite at the end of the week, covered with plastic for protection.

A hydraulic fluid release occurred in Forma's laydown yard at logistics on 01-07-15. A spill report summarizing the release and cleanup actions taken is attached to this report.

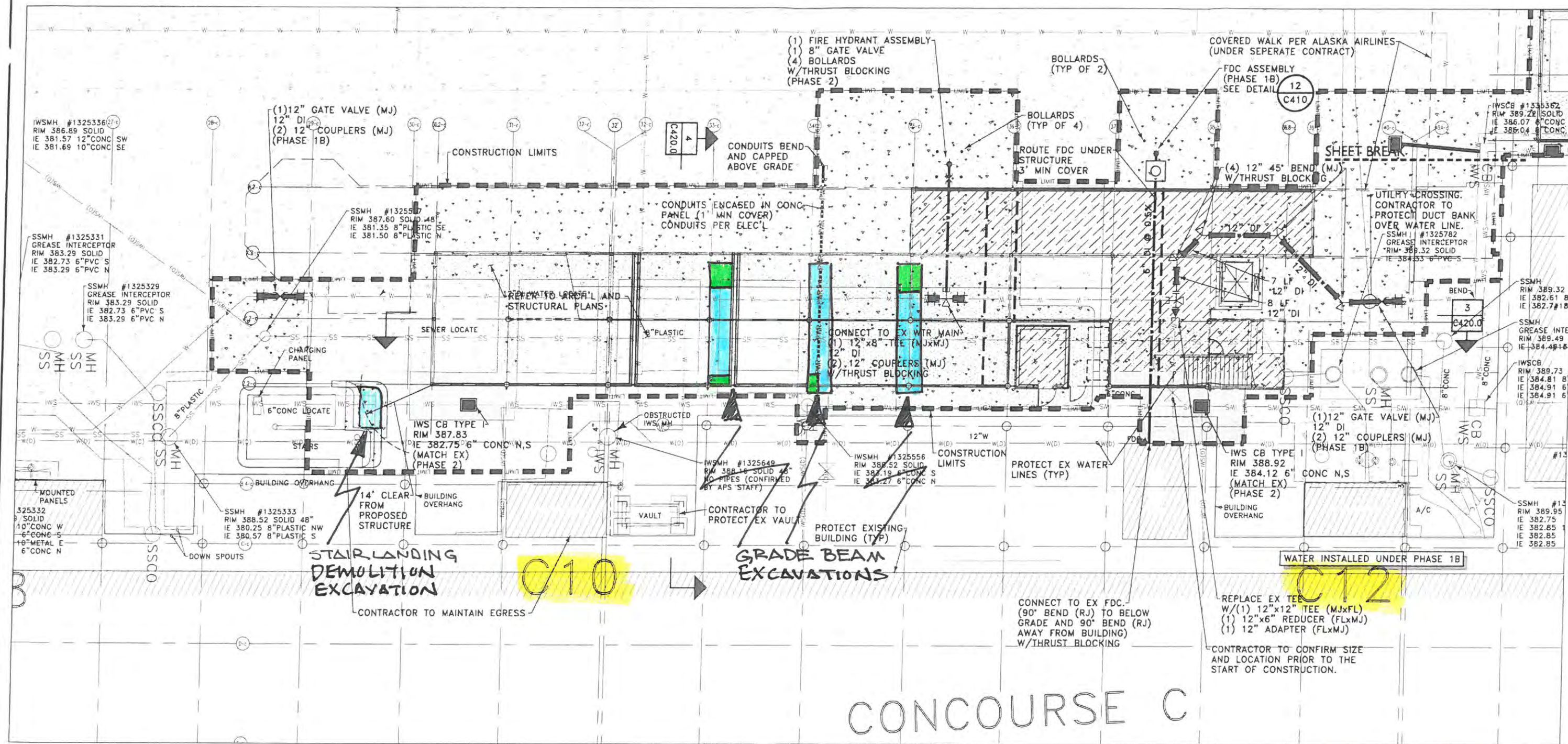
A copy of the pollution prevention plan inspection is attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS
DURING CONSTRUCTION TO ENSURE REQUIRED
MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING
STAIRS, GATES, AND PEDESTRIAN ACCESS
STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED
UTILITIES TO CONFIRM LOCATION, DEPTH AND
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UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND
EXISTING

PROPOSED

6\" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12\" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12

SCALE: 1\" = 10'-0\"

WKE: 01-11-2015



1\" = 10'-0\"
Scale
Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

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ENGINEERING CORPORATION

PROJECT ENGR./ARCH:
CPL
DESIGNER:
JWB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JWB
CHECKED/APPROVED BY:
JAJ



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCF

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.:
104784
CONSULTANT'S NO.:
2011079
PORT OF SEATTLE NO.:
STIA-1314 C301.2

STIA SPILL REPORT
Form D-2

For all spills, complete this form and return to:
Surface Water Program Manager, Port of Seattle

Email: fox.s@portseattle.org

Or FAX: (206) 439-6617

1. Date & Time Spill was Reported: January 07, 2015 @ 13:35
2. Estimated Time Spill Occurred: January 07, 2015 @ 13:00
3. Name & Phone # of Person whom First Reported Spill: Morgan Salcido (206) 786-8112
4. Party Responsible and Cause for Spill: Forma: Hyraulic line failure on forklift
5. Type of Material Spilled (Describe Odor/color, if unknown): Hydraulic fluid
6. Estimated Quantity or Dimensions of Area Covered by Spill: ~2-3 gallons covering 6'Lx3'W on asphalt *See Map
7. Exact Location of Spill: Forma's laydown yard at Logistics, north from 195th St.
8. Did Material Reach a Catch Basin? Yes ☐ No ☒
9. If Yes, Catch Basin(CB) ID number (If No, Nearest CB to Spill): _____
10. If Yes, Drain Type: IWS ☐ Storm ☐ Sanitary Sewer ☐
11. Did Material Soak into Soil? Yes ☐ No ☒ Estimated Quantity (gal): ~2-3 Gallons
12. Weather Conditions at Site: Foggy/ Temp=40
13. Action Taken (Description of Initial Containment/Recover Procedures): Crew used floor dry and absorbent boom to contain spill. Removed hydraulic fluid from asphalt using floor dry, placed into trash bags, and stored at Forma's laydown yard to be disposed at later date.
14. POS-FD Run #, if applicable: _____
15. Name of Individual Preparing Report: C. Marciniec
16. Date & Time Report was Completed: 01/09/2015 @ 13:10

Check below upon completion

x All POS notifications made POS-FD, AV/ENV, AV/M

x Spill Form Completely filled out and sent. Date & Time Sent: 01/12/15 @ 1200

Below Information to be completed by Aviation Environmental

1. Property(ies)/Stream(s) Impacted? _____
2. Did Material Leave Property? Yes ☐ No ☐ Estimated Quantity (gal): _____
3. Types of Countermeasures Implemented? _____
4. Agencies Contacted? _____ Report #: _____
5. Resolution/COMMENTS: _____

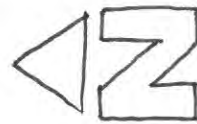
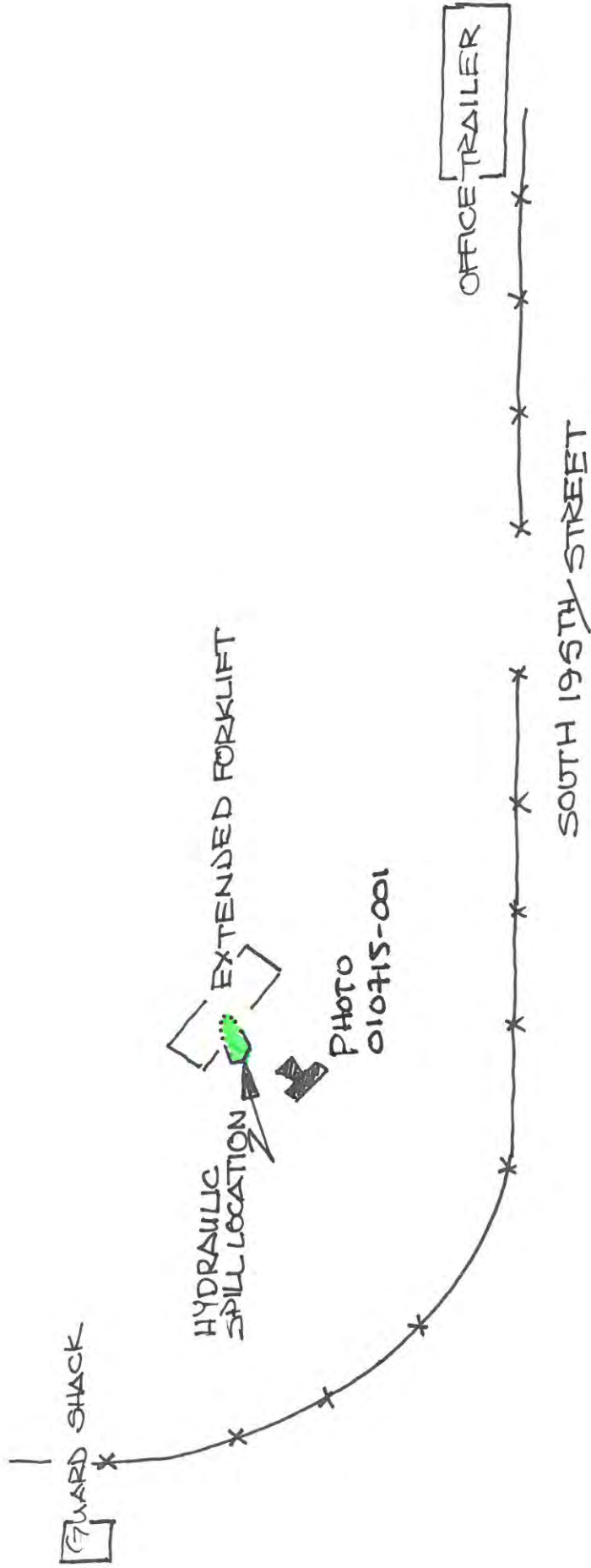




Photo 010715-001 – January 7, 2015

Looking Northeast at the hydraulic fluid release resulting from a line failure on a Forma extended forklift in their laydown area at logistics. The release occurred on asphalt pavement and was cleaned up using floor dry and a sorbent boom.

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	1/6/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
1/6/2015	08:19	01	C Concourse Work Area

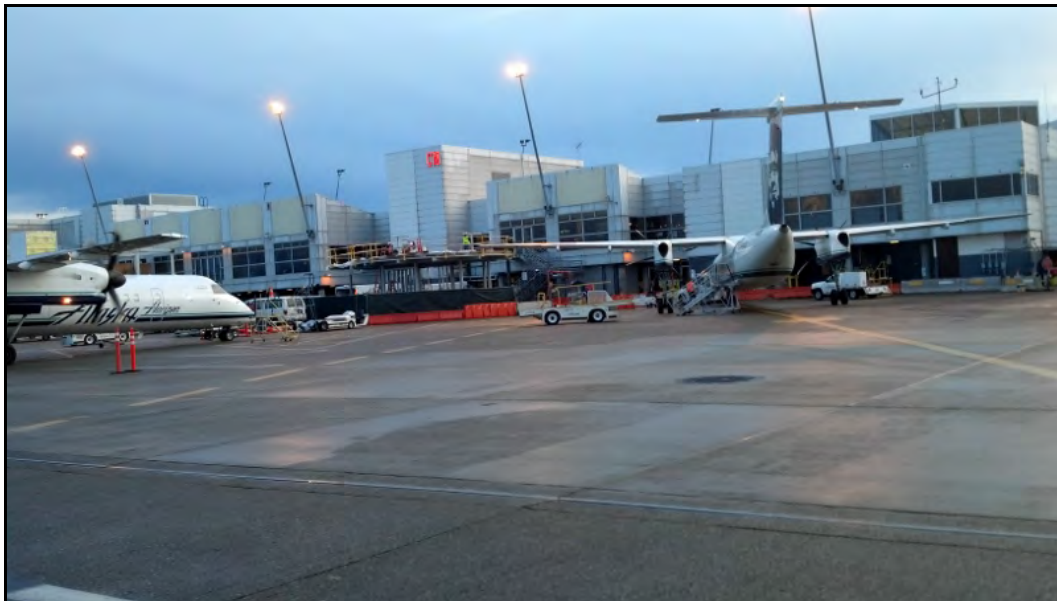


Photo 01: C Concourse Work Area (1/6/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C10-12

Start Date: 1/12/2015

End Date: 1/18/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
A/B	1	15	ESF-CBNW	A/B	19	570	Allied
A/B	2	20	ESF-CBNW	D	NA	NA	Various
D	NA	15	NA				

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C10-12

Excavation work during the week at Gate C10-12 included: 1) Completing the 3 southern grade beams; and 2) Drilling the micro-piles in each of the 6 grade beam areas and removing the drilling spoils.

Clean soil was encountered in the majority of the grade beams and drilled micro-piles. However, glycol impacted soil was encountered in 2 of the 3 southern grade beams excavations.

The glycol impacted soil (~55 tons) encountered during the week was hauled to the Environmental Stockpile Facility-Center Bay North Wall (ESF-CBNW) for temporary storage. Some of the clean was also hauled offsite.

Approximately 70 tons of impacted soil remains at the ESF-CBNW waiting to be hauled offsite to Allied.

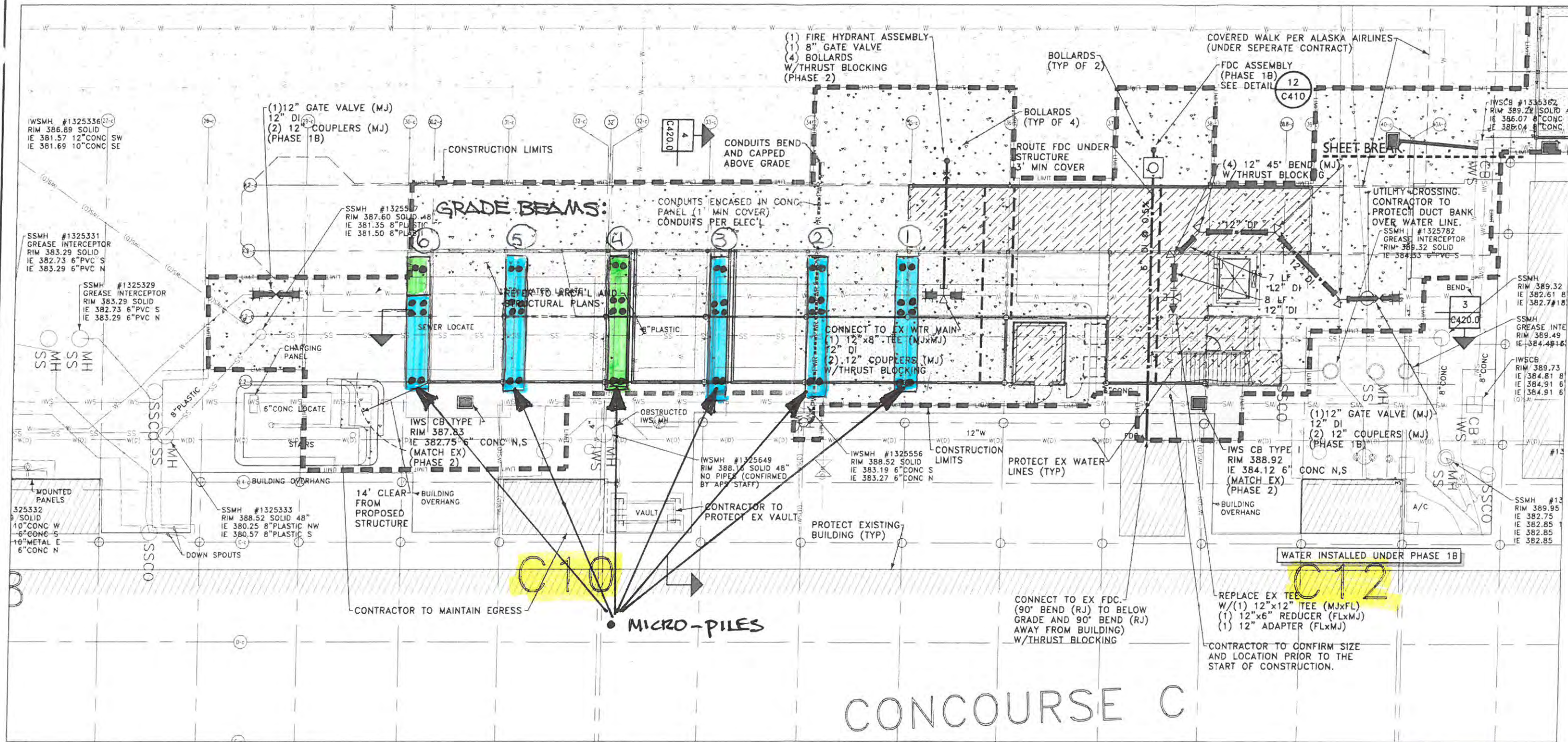
A copy of the pollution prevention plan inspection is attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



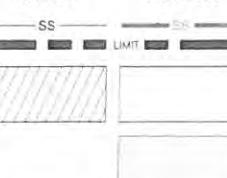
LEGEND
EXISTING
PROPOSED



6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L

6
C410

EXISTING
PROPOSED



SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

7
C410

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1

1
C412

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2

2
C412

NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3

3
C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12

SCALE: 1" = 10'-0"

WK END
01-18-2015



1" = 10'-0"
Scale
Feet

CALL 2 DAYS
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SEE SHEET C001 FOR OVERALL LEGEND

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AS SHOWN
DATE
10/07/13
CHECKED BY
JMB
CHECKED/APPROVED BY
JAU



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAFTER
SCALE
DATE
CHECKED/APPROVED BY
SCP

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STA-1314 C301.2

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	1/14/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
1/14/2015	08:02	01	C Concourse Work Area



Photo 01: C Concourse Work Area (1/14/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C2 & C10-12

Start Date: 1/19/2015

End Date: 1/25/2015

Environmental Agent: C. Marciniac, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
A/B	1	5	ESF-CBNW	A/B	19	570	Allied
D	NA	15	NA	D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C2

Excavation work during the week at Gate C2 included stemwall footings between grade beams. Only clean soil was encountered in each of the 2 footings excavated at C2 during the week.

Gate C10-12

Excavation work during the week at Gate C10-12 included: 1) Cleaning out the 3 southern grade beams excavations; and 2) excavating a footing south of the elevator at Gate C12.

Clean soil was encountered while cleaning out of the grade beam excavations and glycol impacted soil was encountered in the footing excavation south of the elevator at C12. Approximately 5 tons of glycol impacted soil (Type B material) was hauled to the Environmental Stockpile Facility-Center Bay North Wall (ESF-CBNW) and added to the soil already there.

Approximately 75 tons of impacted soil remains at the ESF-CBNW waiting to be hauled offsite to Allied.

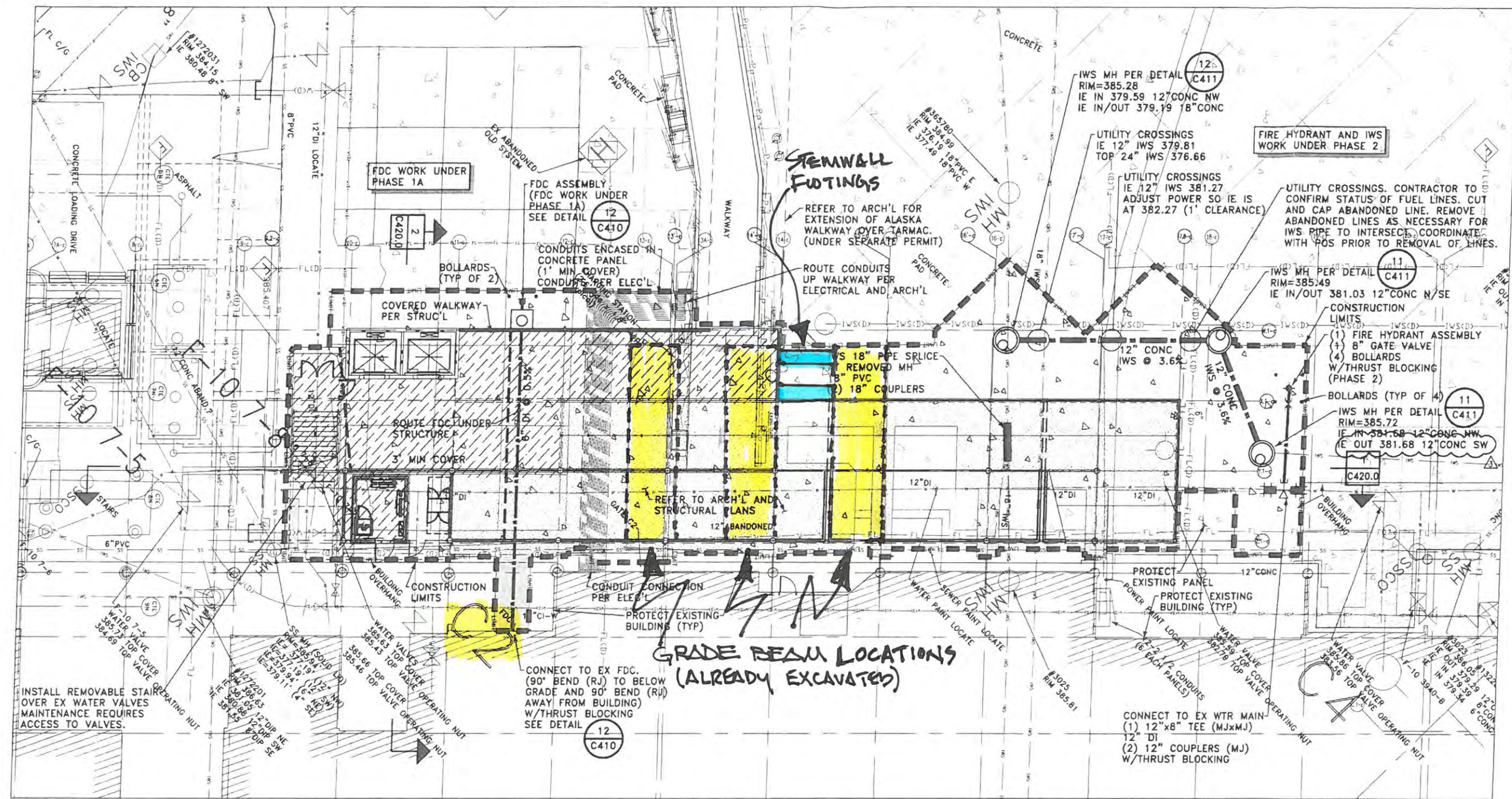
A copy of the pollution prevention plan inspection is attached.

Attached Map ☒ Yes ☐ No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND

EXISTING

PROPOSED

EXISTING

PROPOSED

6" CONCRETE SIDEWALK

HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL

CONCRETE SLAB ON
GRADE PER STRUC'L

6
C410

SEWER LINE

CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

7
C410

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412

NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL

GATE C2

SCALE: 1" = 10'-0"

WKE: 01.25.2015

1"=10'-0"
Scale 10 5 0 10 20
Feet

CALL 2 DAYS
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REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	12-18-13	JMB	ADDENDUM NO. 2						
2	12-22-13	JMB	ADDENDUM NO. 3						
3	12-27-13	JMB	ADDENDUM NO. 4						

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

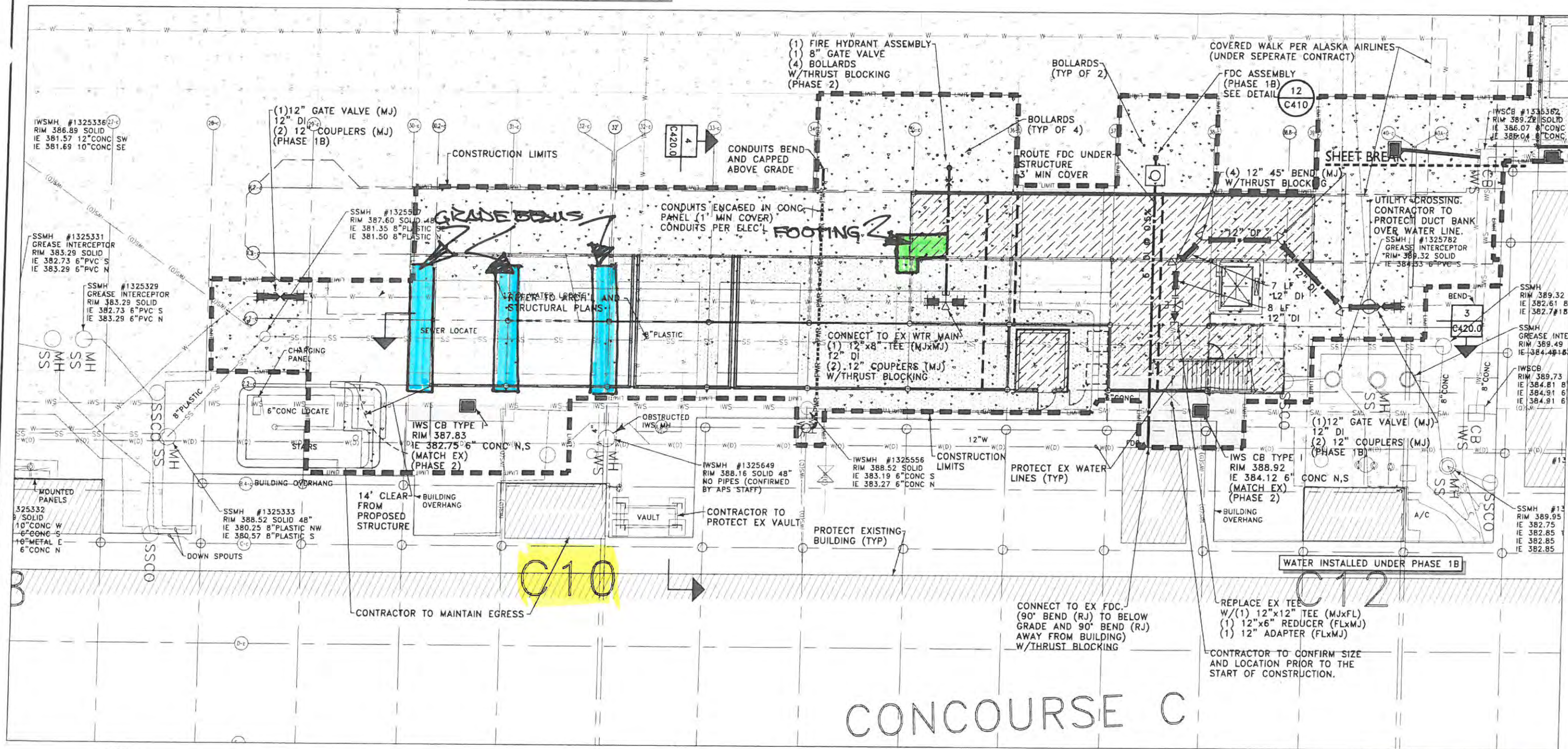
Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.1

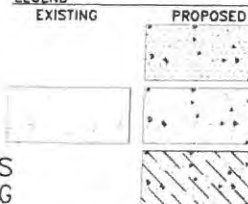
CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

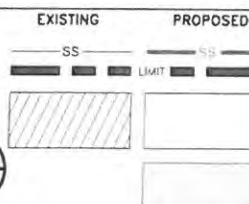
CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND



6\"/>
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12\" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L



SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12
SCALE: 1\"/>

WKE: 01.25.2015



1\"/>

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ENGINEERING CORPORATION

PROJECT ENGR./ARCH:
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAL



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.2

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	1/21/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
1/21/2015	11:46	01	C Concourse Work Area



Photo 01: C Concourse Work Area (1/21/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C2 & C10-12

Start Date: 1/26/2015

End Date: 2/1/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	15	NA	A/B	19	570	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C2

Excavation work during the week at Gate C2 included stemwall footings between grade beams. Clean soil was encountered in one of the footing excavations and glycol impacted soil was encountered in the southern footing excavation.

Some clean soil was hauled offsite and ~2 tons of impacted soil was covered with plastic and temporarily stored onsite.

Gate C10-12

Work during the week at Gate C10-12 included excavating for a fire hydrant. Only clean soil was encountered and some of the clean soil was hauled offsite.

Approximately 75 tons of impacted soil remains at the ESF-CBNW waiting to be hauled offsite to Allied.

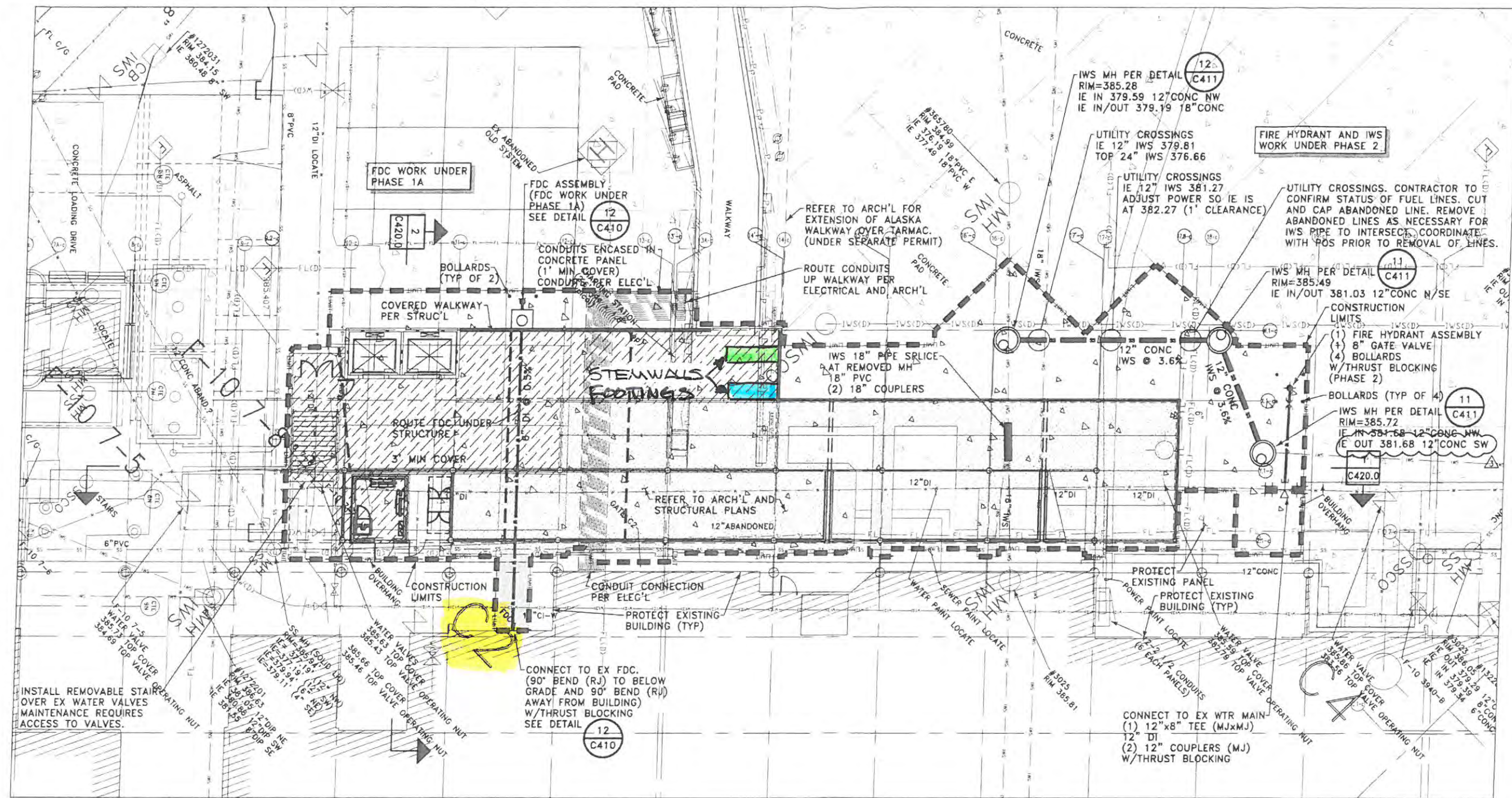
A copy of the pollution prevention plan inspection is attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND
EXISTING

PROPOSED

EXISTING

PROPOSED

6" CONCRETE SIDEWALK

HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL

CONCRETE SLAB ON
GRADE PER STRUC'L

SS

SC

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412

NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C2

SCALE: 1" = 10'-0"

WKE:02.01.2015



1"=10'-0" 10 5 0 10 20
Scale Feet

CALL 2 DAYS
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SEE SHEET C001 FOR OVERALL LEGEND

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REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	10-15-13	ME	ADDENDUM NO. 2				
2	12-20-13	ME	ADDENDUM NO. 3				
3	12-27-13	JAL	ADDENDUM NO. 4				

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

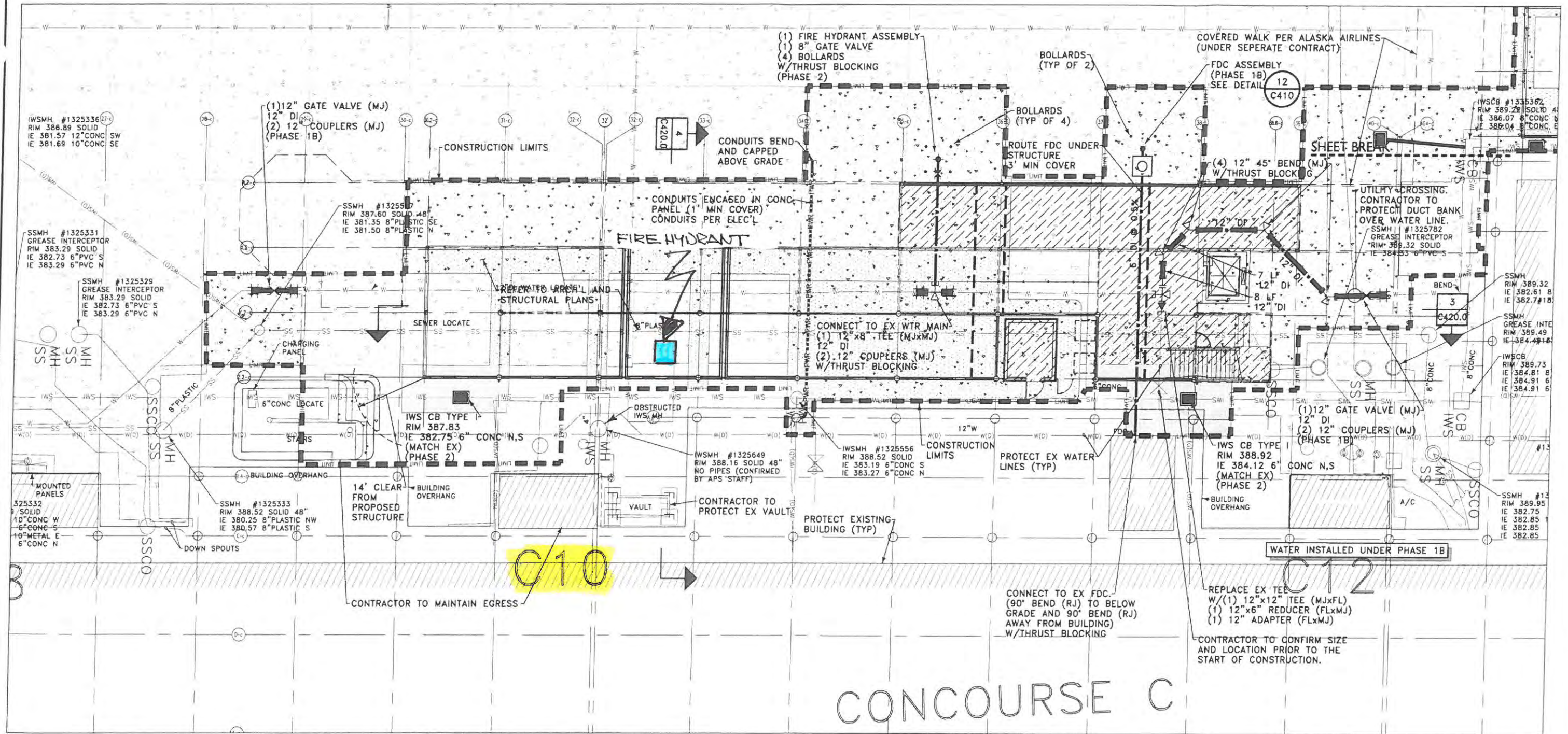
Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO:
104784
CONSULTANT'S NO:
2011079
PORT OF SEATTLE NO:
STIA-1314 C301.1

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

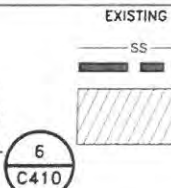
CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND
EXISTING

PROPOSED

6\" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12\" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L



EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL



JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412

NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12

SCALE: 1\" = 10'-0\"

WKE: 02.01.2015



1\" = 10'-0\"
Scale 10 5 0 10 20
Feet

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PROJECT ENGR./ARCH:
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CREATED/REVISED BY:
JAJ



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/REVISED BY:
SCP

**Port
of Seattle** SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO:
104784
CONSULTANT'S NO:
2011079
PORT OF SEATTLE NO:
STIA-1314 C301.2

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	1/27/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
1/27/2015	08:19	01	C Concourse Work Area



Photo 01: C Concourse Work Area (1/27/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C2 & C10-12

Start Date: 2/2/2015

End Date: 2/8/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
A/B	1	5	ESF-CBNW	A/B	19	570	Allied
A/B	1	15	ESF-CBNW	D	NA	NA	Various
D	NA	15	NA				

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C2

Excavation work during the week at Gate C2 included stemwall footings between grade beams. The majority of soil encountered in the footing excavations was glycol impacted material (Type B soil).

Approximately 20 tons of glycol impacted soil was hauled to the Environmental Stockpile Facility-Center Bay North Wall (ESF-CBNW) for temporary storage. Also, clean soil encountered during the week and previous week was hauled offsite. There did not appear to be any clean or impacted soil remaining at any of the project site locations at the end of the week.

Gate C10-12

Work during the week at Gate C10-12 included excavating for a fire hydrant. Only clean soil was encountered and the clean soil was hauled offsite.

Approximately 95 tons of impacted soil remains at the ESF-CBNW waiting to be hauled offsite to Allied.

A copy of the pollution prevention plan inspection is attached.

Attached Map X Yes No

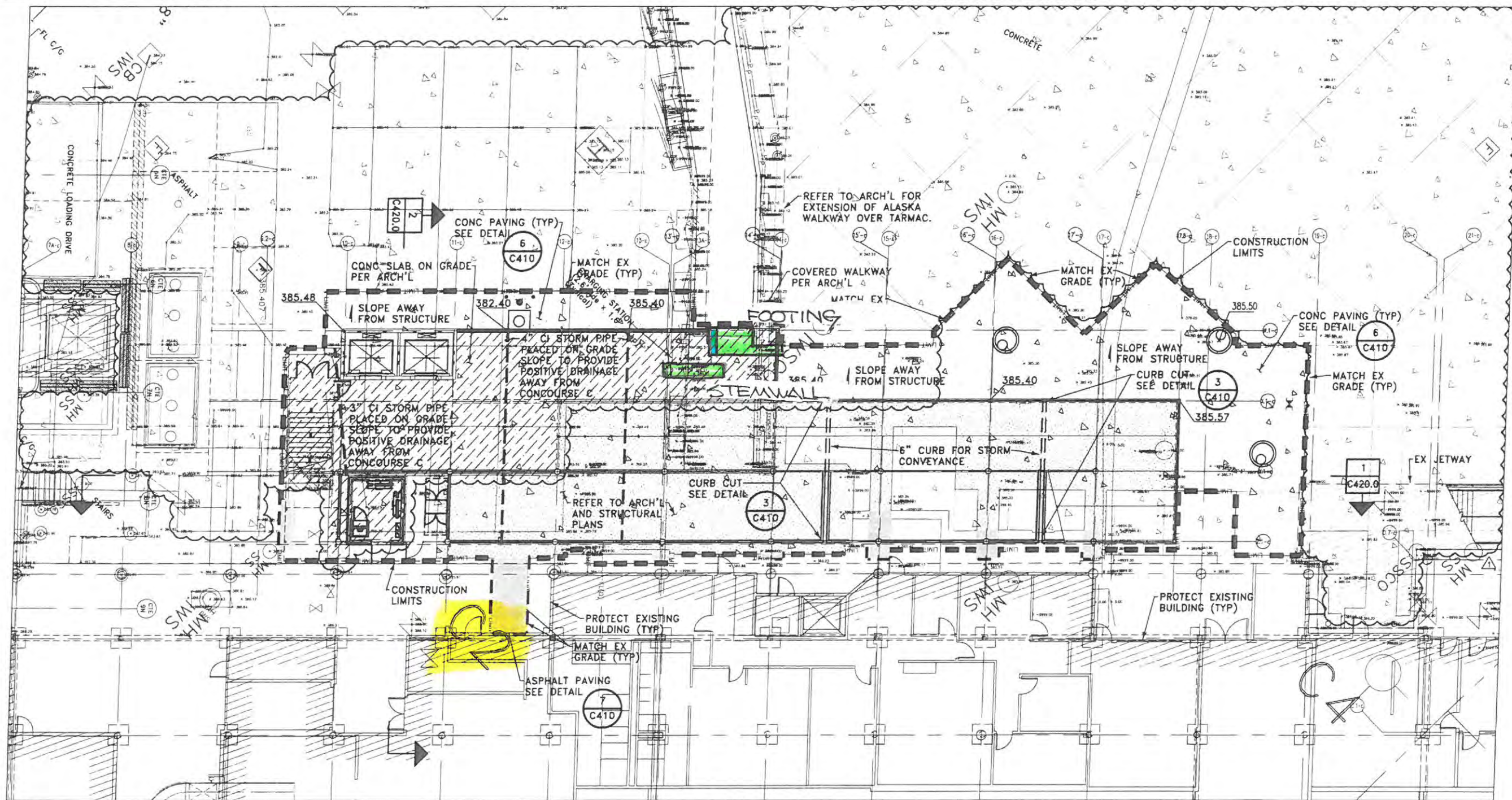
CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.

CONTRACTOR TO REFER TO GENERAL NOTES FOR IWS DOWNTIME.

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO REPLACE NECESSARY STRIPPING TO MATCH EX CONDITIONS AT ALL REPLACED HARDSCAPE OUTSIDE NEW STRUCTURE. REFER TO SPECIFICATIONS.



LEGEND

EXISTING

PROPOSED

EXISTING

PROPOSED

6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON GRADE PER ARCH'L

6
C410

STORM LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

7
C410

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412

NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

GRADING AND PAVING PLAN

RAMP LEVEL
GATE C2

SCALE: 1" = 10'-0"

WKE: 02-08-2015

1"=10'-0" 10 5 0 10 20
Scale Feet

CALL 2 DAYS
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REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.
1	12-16-13	JMB	ADDENDUM NO. 2		
2	12-20-13	JMB	ADDENDUM NO. 3		

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT

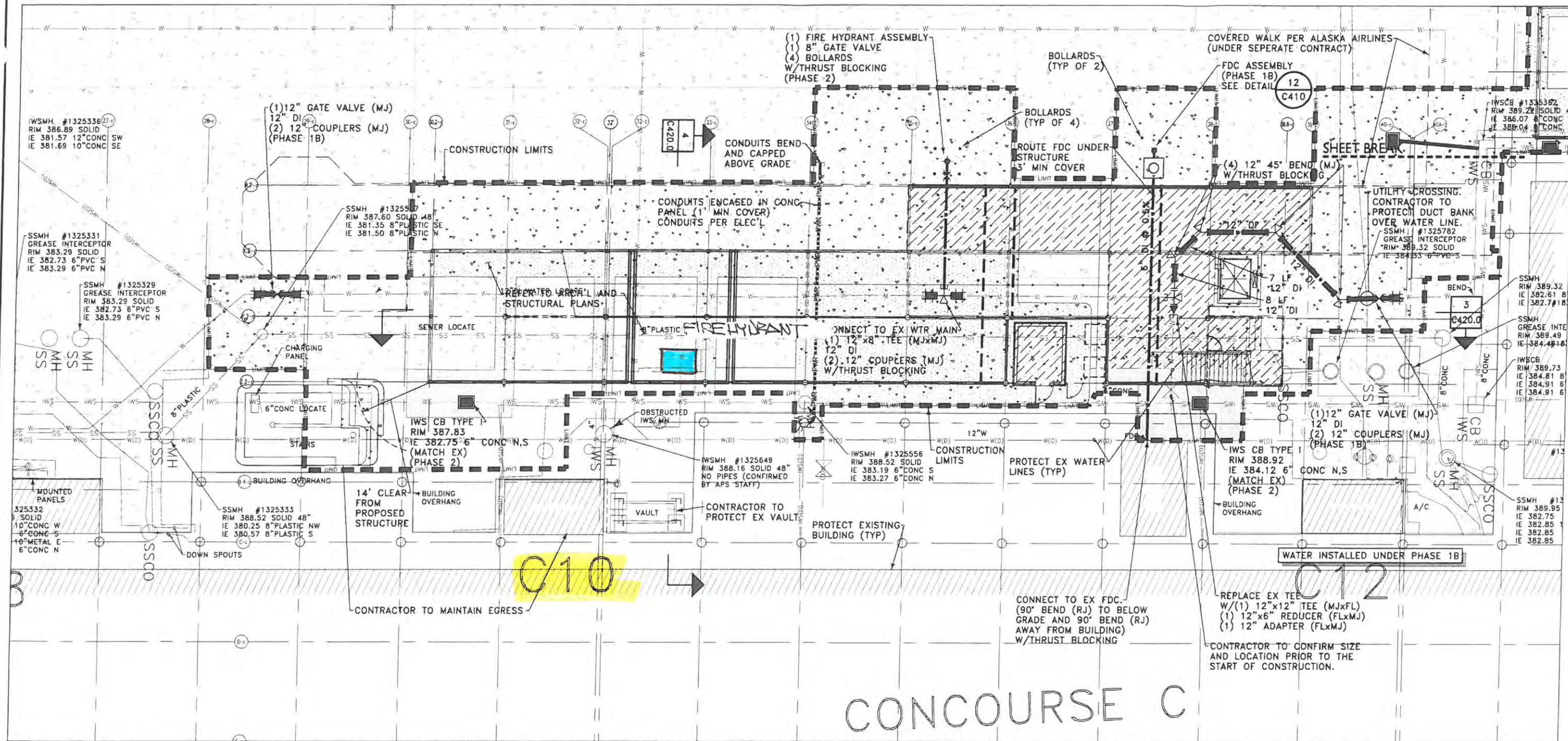
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Grading and Paving Plan C2

WORK PROJECT NO:
104784
CONSULTANT'S NO:
2011079
PORT OF SEATTLE NO:
STIA-1314 C201.1

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND
EXISTING

PROPOSED

6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12

SCALE: 1" = 10'-0"

WKE: 02-08-2015



1"=10'-0" 10 5 0 10 20
Scale Feet

CALL 2 DAYS
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SEE SHEET C001 FOR OVERALL LEGEND

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PROJECT ENGR. JARCH
CPL
DESIGNER: JMB
DRAWN BY: PRW
SCALE: AS SHOWN
DATE: 10/07/13
CHECKED BY: JMB
CHECKED/APPROVED BY: JAJ



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO:
104784
CONSULTANT'S NO:
2011079
PORT OF SEATTLE NO:
STIA-1314 C301.2

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	2/3/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
2/3/2015	08:43	01	C Concourse Work Area



Photo 01: C Concourse Work Area (2/3/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C10-12

Start Date: 2/9/2015

End Date: 2/15/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	15	NA	A/B	19	570	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C10-12

Work during the week at Gate C10-12 included excavating for a water line. Only clean soil was encountered and the clean soil was temporarily stored on site.

Approximately 95 tons of impacted soil remains at the ESF-CBNW waiting to be hauled offsite to Allied.

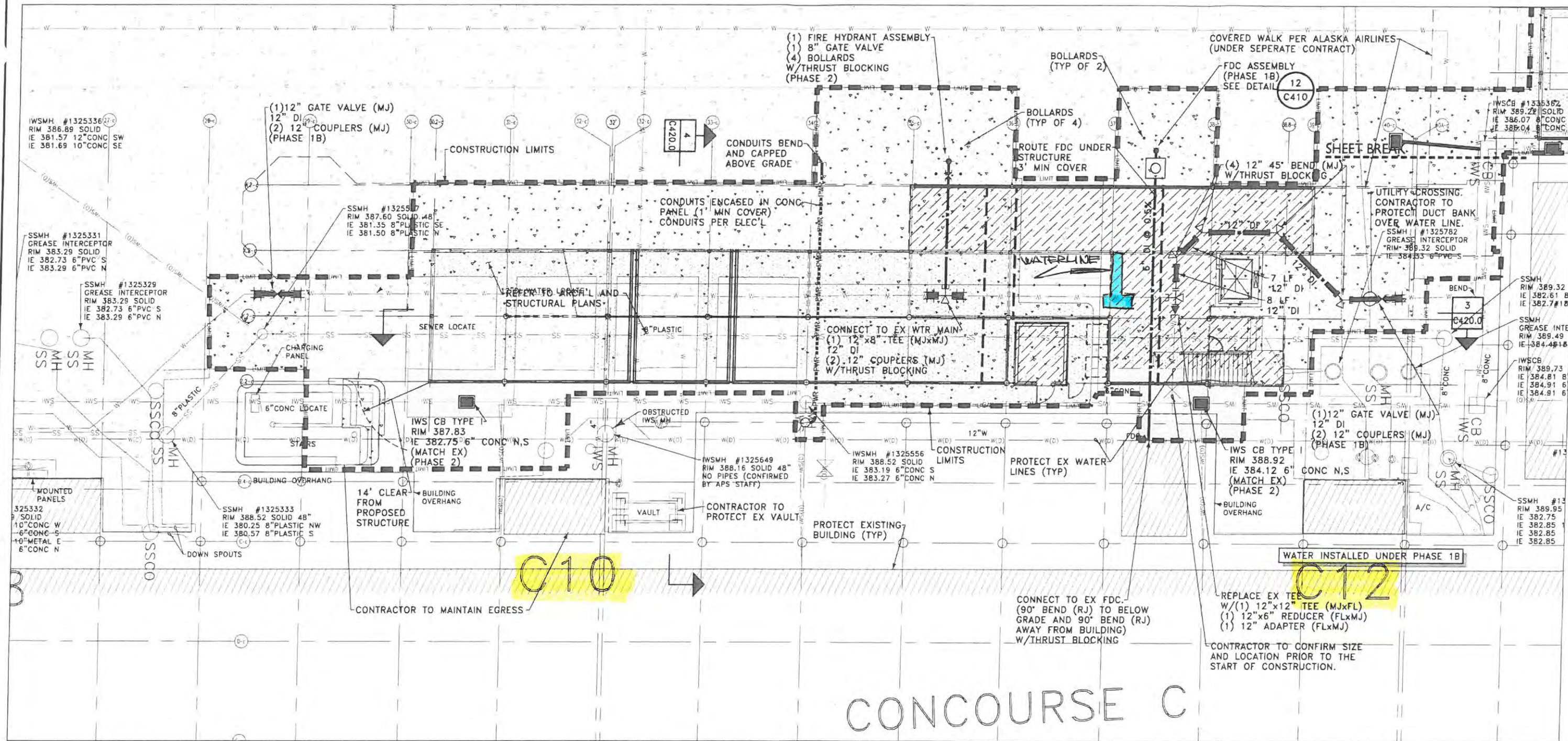
A copy of the pollution prevention plan inspection is attached.

Attached Map X Yes No

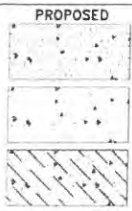
CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

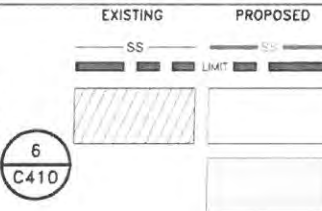
CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND
EXISTING
PROPOSED



6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L



EXISTING
PROPOSED
SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12
SCALE: 1" = 10'-0"

WKE: 02-15-2015



1"=10'-0" 10 5 0 10 20
Scale Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555



COUGHLIN
PORTER
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413 PINE STREET, SUITE 300
SEATTLE, WA 98101
P: 206/343-0460
F: 206/343-5691
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR./ARCH:
CPL
DESIGNER:
JMB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
DESIGNED/APP'D BY:
JAJ



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APP'D BY:
SCP

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.:
104784
CONSULTANT'S NO.:
2011079
PORT OF SEATTLE NO.:
STIA-1314 C301.2

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	2/10/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
2/10/2015	09:16	01	C Concourse Work Area



Photo 01: C Concourse Work Area (2/10/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C10-12

Start Date: 2/16/2015

End Date: 2/22/2015

Environmental Agent: C. Marciniac, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	15	NA	A/B	19	570	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #
2/17/2015	1415	021715-01			
2/19/2015	1100	021915-01			

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C10-12

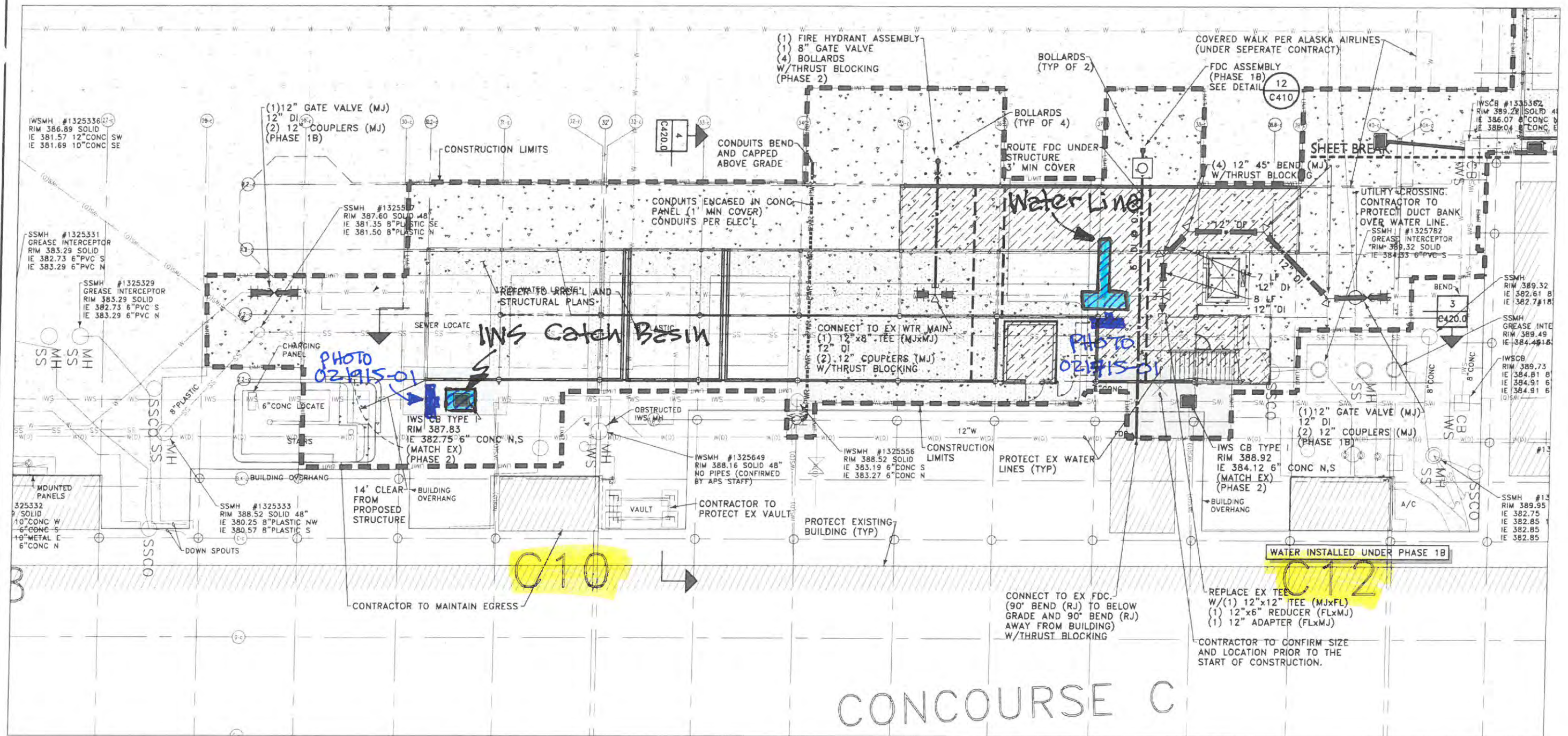
Work during the week at Gate C10-12 included: 1) excavating for a water line; and 2) excavating for an IWS catch basin. Only clean soil was encountered and the clean soil was hauled to the stockpile facility for temporary storage (kept separate from impacted soil). Approximately 95 tons of impacted soil remains at the ESF-CBNW waiting to be hauled offsite to Allied. A copy of the pollution prevention plan inspection is attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL C412

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL C412

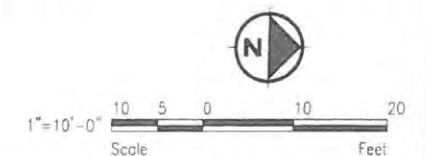
NEW PCCP PANEL TO ASPHALT - SEE DETAIL C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12

SCALE: 1" = 10'-0"

Wk End 02-22-15



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SEE SHEET C001 FOR OVERALL LEGEND

OAC

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F: 206 285 4371
WWW.OACWA.COM

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PORTER
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SEATTLE, WA 98101
P: 206/343-0460
F: 206/343-5691
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APPROVED	DATE

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
CHECKER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

**Port
of Seattle**

SEA-TAC INTERNATIONAL AIRPORT

PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.2



Photo 021715-01

Looking west at a water line installed in the excavated trench at Gate C10/12.
The soil was Type D 'clean' material.



Photo 021915-01

Looking north at an IWS catch basin excavation at Gate C10/12.
The soil was Type D 'clean' material.

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	2/17/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
2/17/2015	09:53	01	C Concourse Work Area



Photo 01: C Concourse Work Area (2/17/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C2 & C10-12

Start Date: 2/23/2015

End Date: 3/1/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	NA	15	NA	A/B	19	570	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C2

Work during the week at Gate C2 included final grading in the SW portion of the project work area. Only clean soil was encountered and the clean soil was hauled to the stockpile facility for temporary storage (kept separate from impacted soil).

Gate C10-12

Work during the week at Gate C10-12 included: 1) excavating for footings south of the elevator at C12; and 2) final grading in the NW portion of the project work area. The majority of soil encountered was clean and was hauled to the stockpile facility for temporary storage (kept separate from impacted soil). A small amount of glycol impacted soil was encountered in the southern portion of the grading excavation at C10-12 and that soil was covered and temporarily stored onsite.

Approximately 95 tons of impacted soil remains at the ESF-CBNW waiting to be hauled offsite to Allied.

On Feb. 23, 2015, two small diesel fuel releases occurred on pavement at C10-12. The attached spill reports summarize the details of each spill and documents cleanup actions taken by the contractor.

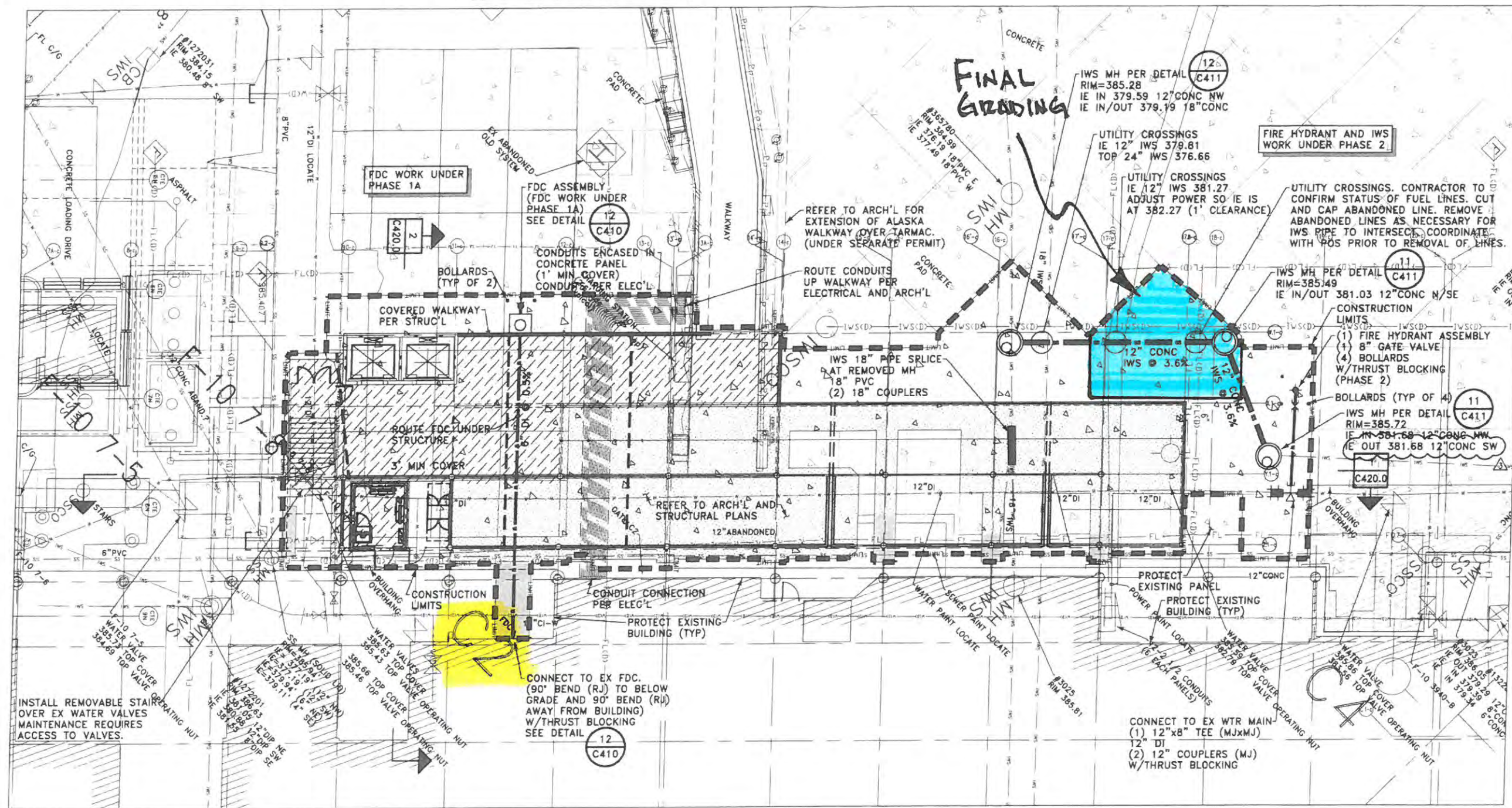
A copy of the pollution prevention plan inspection is attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND



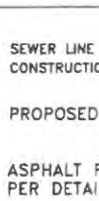
PROPOSED
6\"/>

HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12\"/>

CONCRETE SLAB ON
GRADE PER STRUC'L



EXISTING
PROPOSED
SEWER LINE
CONSTRUCTION LIMITS



EXISTING
PROPOSED
STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C2
SCALE: 1\"/>

WK END 03-01-15



1\"/>

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OAC
701 DEXTER AVENUE NORTH
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F: 206 285 4371
WWW.OACDC.COM

**COUGHLIN
PORTER
LUNDEN**
413 PINE STREET, SUITE 300
SEATTLE, WA 98101
P: 206 343-0440
F: 206 343-5691
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR./ARCH:
CPL
DESIGNER:
JMB
CHECKED BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAJ



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	12-16-13	AB	ADDENDUM NO. 2						
2	12-20-13	AB	ADDENDUM NO. 3						
3	12-27-13	JAJ	ADDENDUM NO. 4						

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAWER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

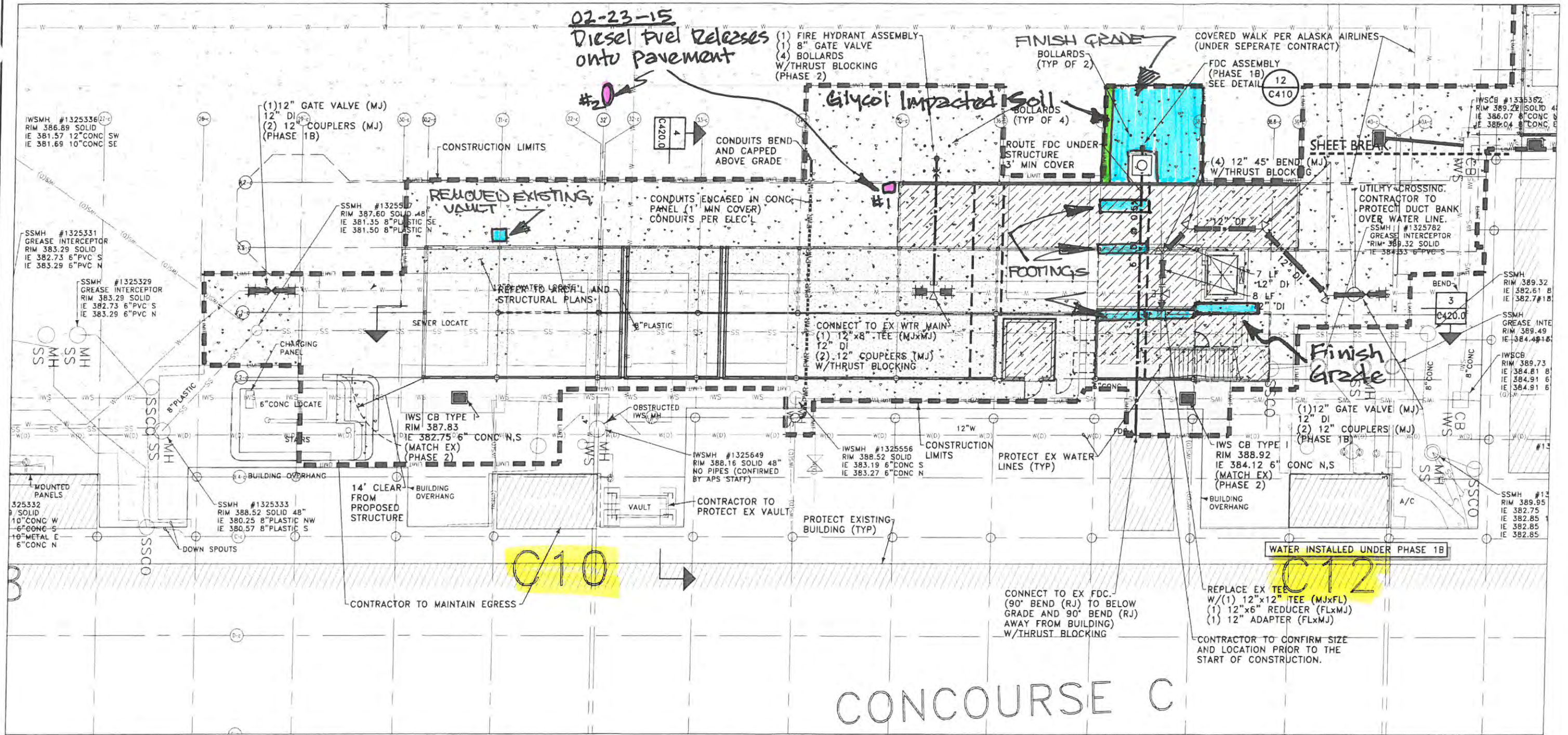
**Port
of Seattle** SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO:
104784
CONSULTANT'S NO.:
2011079
PORT OF SEATTLE NO.:
STIA-1314 C301.1

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



STIA SPILL REPORT
Form D-2

For all spills, complete this form and return to:
Surface Water Program Manager, Port of Seattle
Email: fox.s@portseattle.org
Or FAX: (206) 439-6617

1. Date & Time Spill was Reported: 02/23/2015 @ 07:00
2. Estimated Time Spill Occurred: 06:45
3. Name & Phone # of Person whom First Reported Spill: C. Heimbigner (POS) @ 206/787-7815
4. Party Responsible and Cause for Spill: Illiad - Discharged a small amount of diesel fuel to pavement while refueling excavator from PU truck fuel cell
5. Type of Material Spilled (Describe Odor/color, if unknown): Diesel Fuel
6. Estimated Quantity or Dimensions of Area Covered by Spill: ~16 oz. - 2'x2' on concrete.
7. Exact Location of Spill: Between Gate C-10 and Gate C-12 * See Map
8. Did Material Reach a Catch Basin? Yes ☐ No ☒
9. If Yes, Catch Basin(CB) ID number (If No, Nearest CB to Spill): _____
10. If Yes, Drain Type: IWS ☐ Storm ☐ Sanitary Sewer ☐
11. Did Material Soak into Soil? Yes ☐ No ☒ Estimated Quantity (gal): 16 oz.
12. Weather Conditions at Site: Cloudy / Temperature 40°
13. Action Taken (Description of Initial Containment/Recover Procedures): Crew used clean soil to soak up the diesel fuel off the concrete. Placed soil into a trash bag, which was taken back to Illiad's yard to be properly disposed.
14. POS-FD Run #, if applicable: _____
15. Name of Individual Preparing Report: C. Marciniec
16. Date & Time Report was Completed: 02/23/2015 @ 14:00

Check below upon completion

- x All POS notifications made POS-FD, AV/ENV, AV/M
- x Spill Form Completely filled out and sent. Date & Time Sent: 03/01/15 @ 1130

Below Information to be completed by Aviation Environmental

1. Property(ies)/Stream(s) Impacted? _____
2. Did Material Leave Property? Yes ☐ No ☐ Estimated Quantity (gal): _____
3. Types of Countermeasures Implemented? _____
4. Agencies Contacted? _____ Report #: _____
5. Resolution/COMMENTS: _____

STIA SPILL REPORT
Form D-2

For all spills, complete this form and return to:
Surface Water Program Manager, Port of Seattle

Email: fox.s@portseattle.org

Or FAX: (206) 439-6617

1. Date & Time Spill was Reported: 02/23/2015 @ 07:40
2. Estimated Time Spill Occurred: 07:40
3. Name & Phone # of Person whom First Reported Spill: K. Crocker (Iliad's Foreman) 425/971-8272
4. Party Responsible and Cause for Spill: Iliad – fuel hose from PU truck fuel cell was not properly replaced, causing diesel fuel to be released into the bed of truck, which then leaked onto pavement.
5. Type of Material Spilled (Describe Odor/color, if unknown): Diesel Fuel
6. Estimated Quantity or Dimensions of Area Covered by Spill: ~1-Gal. / 3'Lx1'W on concrete
7. Exact Location of Spill: Gate C-10 * See Map
8. Did Material Reach a Catch Basin? Yes ☐ No ☒
9. If Yes, Catch Basin(CB) ID number (If No, Nearest CB to Spill): _____
10. If Yes, Drain Type: IWS ☐ Storm ☐ Sanitary Sewer ☐
11. Did Material Soak into Soil? Yes ☐ No ☒ Estimated Quantity (gal): _____
12. Weather Conditions at Site: Cloudy / Temperature 40°
13. Action Taken (Description of Initial Containment/Recover Procedures): Crew used floor dry to remove the diesel fuel off the concrete. Floor dry placed into a trash bag, which was taken back to Iliad's yard to be disposed of properly.
14. POS-FD Run #, if applicable: _____
15. Name of Individual Preparing Report: C. Marciniac
16. Date & Time Report was Completed: 02/27/2015 @15:00

Check below upon completion

x All POS notifications made POS-FD, AV/ENV, AV/M

x Spill Form Completely filled out and sent. Date & Time Sent: 03/01/15 @ 1130

Below Information to be completed by Aviation Environmental

1. Property(ies)/Stream(s) Impacted? _____
2. Did Material Leave Property? Yes ☐ No ☐ Estimated Quantity (gal): _____
3. Types of Countermeasures Implemented? _____
4. Agencies Contacted? _____ Report #: _____
5. Resolution/COMMENTS: _____

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	2/24/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
2/24/2015	12:21	01	C Concourse Work Area



Photo 01: C Concourse Work Area (2/24/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gate C10-12

Start Date: 3/2/2015

End Date: 3/8/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	19	570	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C10-12

No excavation work occurred at the project site for the week ending 03-08-15.

Approximately 100 tons of impacted soil remains at the ESF-CBNW waiting to be hauled offsite to Allied.

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	3/3/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
3/3/2015	08:05	01	C Concourse Work Area



Photo 01: C Concourse Work Area (3/3/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C2 and C14

Start Date: 3/9/2015

End Date: 3/15/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	4	15	ESF-CBWW	A/B	19	570	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C2

Excavation work for final grading occurred at Gate C2 during the week - only clean soil was encountered and ~60 tons was hauled to the Environmental Stockpile Facility - Center Bay West Wall (ESF-CBWW) for temporary storage.

Gate C14

A hydraulic fluid release on concrete occurred at Gate C14 during the week - a copy of the spill report is attached documenting the details and cleanup actions taken.

~100 tons of impacted soil remains at the stockpile facility (ESF-CBWW) waiting to be hauled offsite to Allied; and ~75 tons of clean soil remains at the stockpile facility (ESF-CBWW) waiting to be hauled offsite.

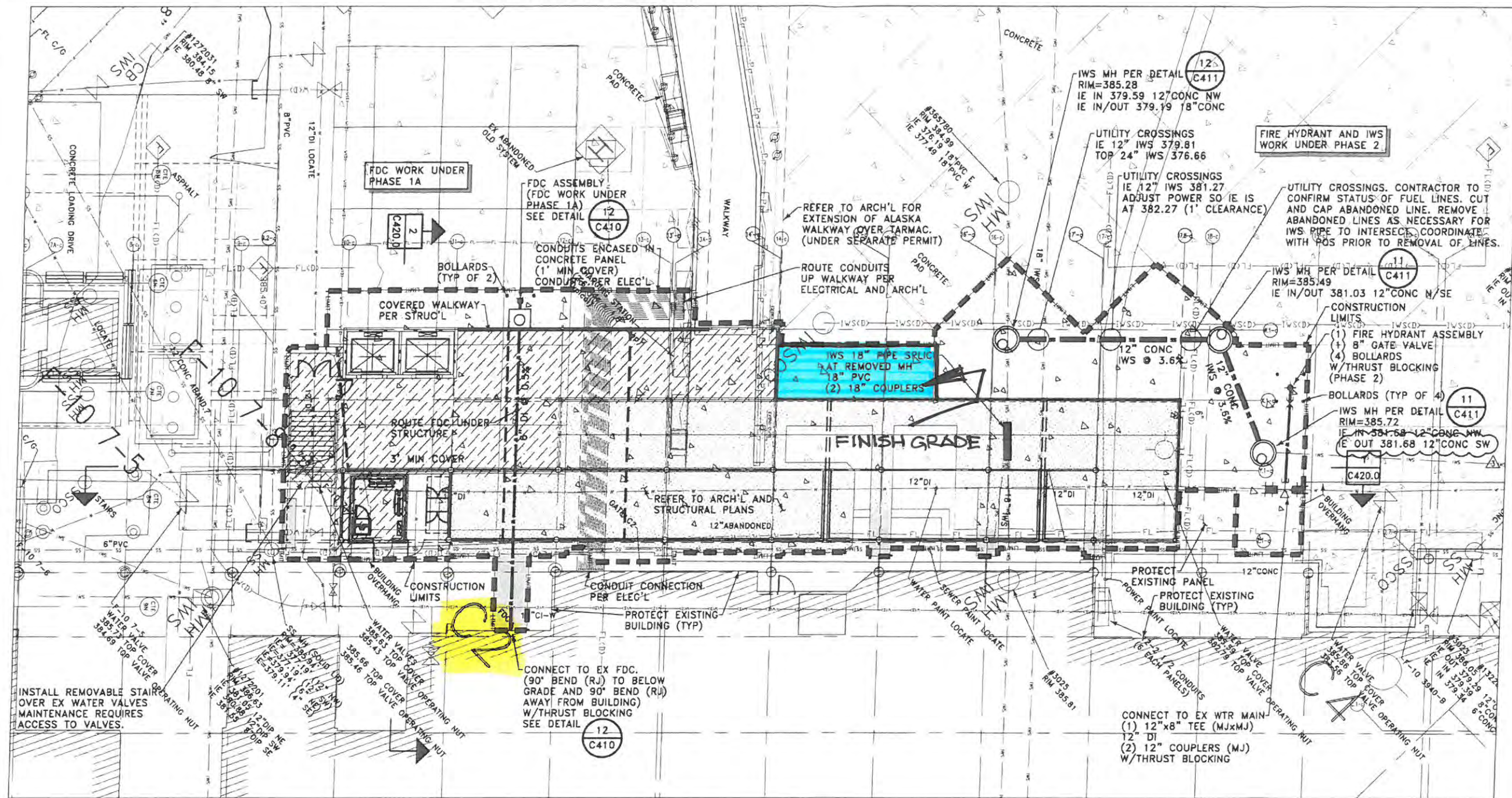
A copy of the pollution prevention plan inspection is attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND
EXISTING
PROPOSED



6\"/>

EXISTING
PROPOSED



SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

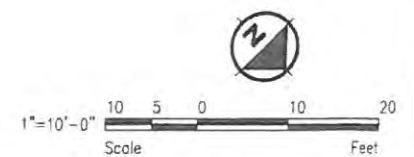
JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C2
SCALE: 1\"/>

WKE:03.15.2015



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SEE SHEET C001 FOR OVERALL LEGEND

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101 Dexter Avenue North
Suite 301
Seattle, WA 98109-4342
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F: 206 285 4371
www.oac-engineers.com

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LUNDEN**

413 PINE STREET, SUITE 300
SEATTLE, WA 98101
P: 206/343-0440
F: 206/343-5491
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR/ARCH
CPI
DESIGNER
JMB
DRAWN BY
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JMB
CHECKED/APPROVED BY:
JAJ



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	12-16-13	JB	ADDENDUM NO. 2						
2	12-20-13	JB	ADDENDUM NO. 3						
3	12-27-13	JAJ	ADDENDUM NO. 4						

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAWN BY
SCALE:
DATE:
CHECKED/APPROVED BY
SCP

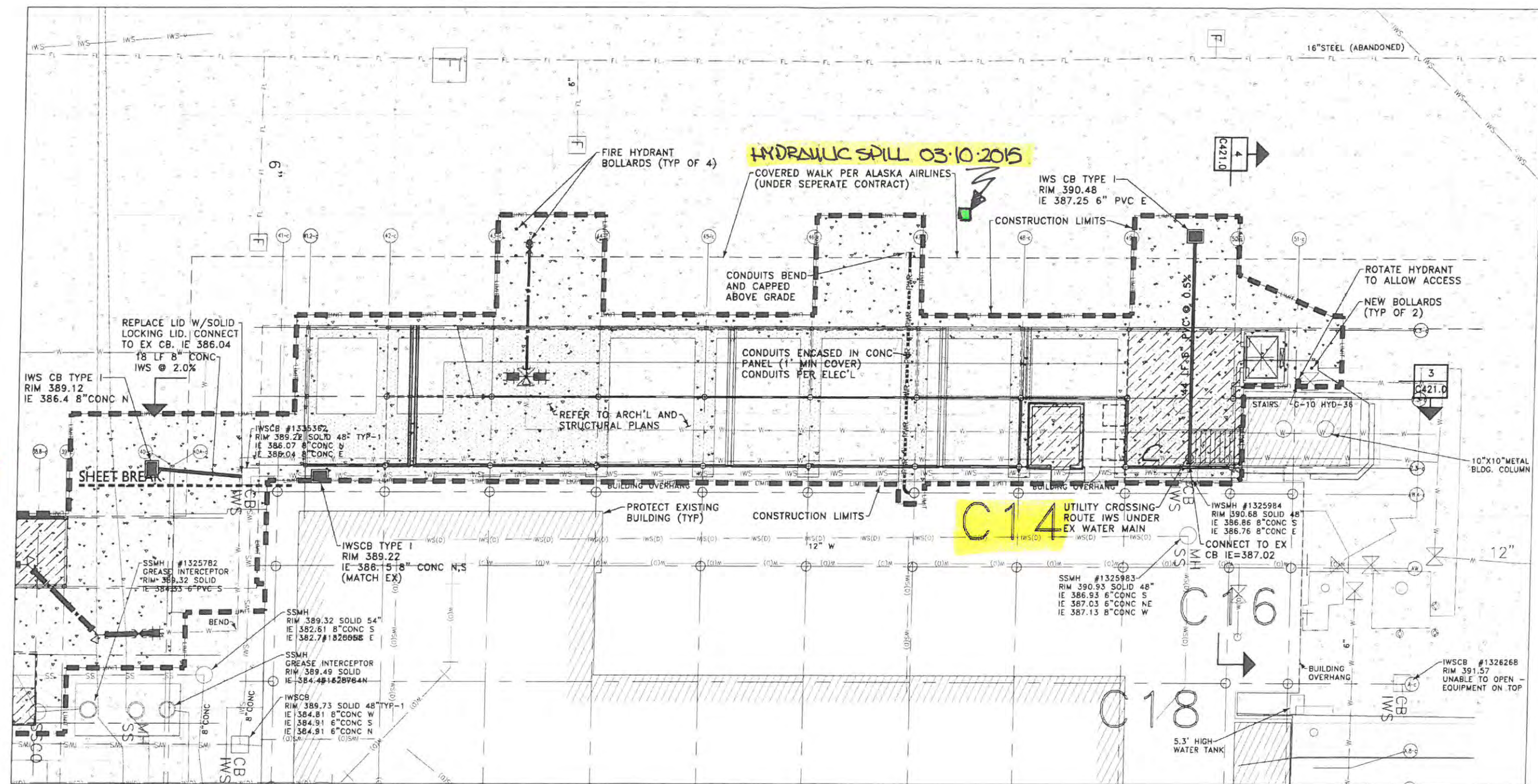
**Port
of Seattle** SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STA-1314 C301.1

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND



6\"/>

EXISTING



PROPOSED



SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C14
SCALE: 1\"/>

WKE: 03.15.2015
1\"/>

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

SEE SHEET C001 FOR OVERALL LEGEND

OAC
201 DEXTER AVENUE NORTH
SUITE 301
SEATTLE, WA 98109-4342
P: 206 285 4300
F: 206 285 4311
WWW.OACVCA.COM

**COUGHLIN
PORTER
LUNDEEN**
413 PINE STREET, SUITE 200
SEATTLE, WA 98101
P: 206/343-0460
F: 206/343-5691
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APPROVED	DATE

PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAWER
SCALE
DATE
CHECKED/APPROVED BY
SCP

**Port
of Seattle** **SEA-TAC INTERNATIONAL AIRPORT**
PROJECT: **Concourse C Vertical Circulation
Vertical Conveyance System Upgrade**
SHEET TITLE: **Civil Site Plan C14**

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.3

STIA SPILL REPORT
Form D-2

For all spills, complete this form and return to:
Surface Water Program Manager, Port of Seattle
Email: fox.s@portseattle.org
Or FAX: (206) 439-6617

1. Date & Time Spill was Reported: 03/11/2015 @ 12:30
2. Estimated Time Spill Occurred: 03/10/2015 @ 10:00
3. Name & Phone # of Person whom First Reported Spill: M. Salcido (Forma) @ 206/786-8112
4. Party Responsible and Cause for Spill: Ness Crane: Hydraulic hose line failure.
5. Type of Material Spilled (Describe Odor/color, if unknown): Hydraulic Fluid, Petroleum Odor
6. Estimated Quantity or Dimensions of Area Covered by Spill: ~12 oz. - 1'x1' on concrete
7. Exact Location of Spill: West from pedestrian ramp at Gate C-14 * See Map
8. Did Material Reach a Catch Basin? Yes ☐ No ☒
9. If Yes, Catch Basin(CB) ID number (If No, Nearest CB to Spill): _____
10. If Yes, Drain Type: IWS ☐ Storm ☐ Sanitary Sewer ☐
11. Did Material Soak into Soil? Yes ☐ No ☒ Estimated Quantity (gal): _____
12. Weather Conditions at Site: Raining / Temperature 53
13. Action Taken (Description of Initial Containment/Recover Procedures): Crew used absorbent pads and floor dry to remove hydraulic fluid off the concrete. Material was placed into trash bag and taken off site to Ness Crane yard to be properly disposed.
14. POS-FD Run #, if applicable: _____
15. Name of Individual Preparing Report: C. Marciniec
16. Date & Time Report was Completed: 03/12/2015 @ 10:40

Check below upon completion

- x All POS notifications made POS-FD, AV/ENV, AV/M
- x Spill Form Completely filled out and sent. Date & Time Sent: 03/16/15 @1100

Below Information to be completed by Aviation Environmental

1. Property(ies)/Stream(s) Impacted? _____
2. Did Material Leave Property? Yes ☐ No ☐ Estimated Quantity (gal): _____
3. Types of Countermeasures Implemented? _____
4. Agencies Contacted? _____ Report #: _____
5. Resolution/COMMENTS: _____

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	3/10/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
3/10/2015	09:26	01	C Concourse Work Area

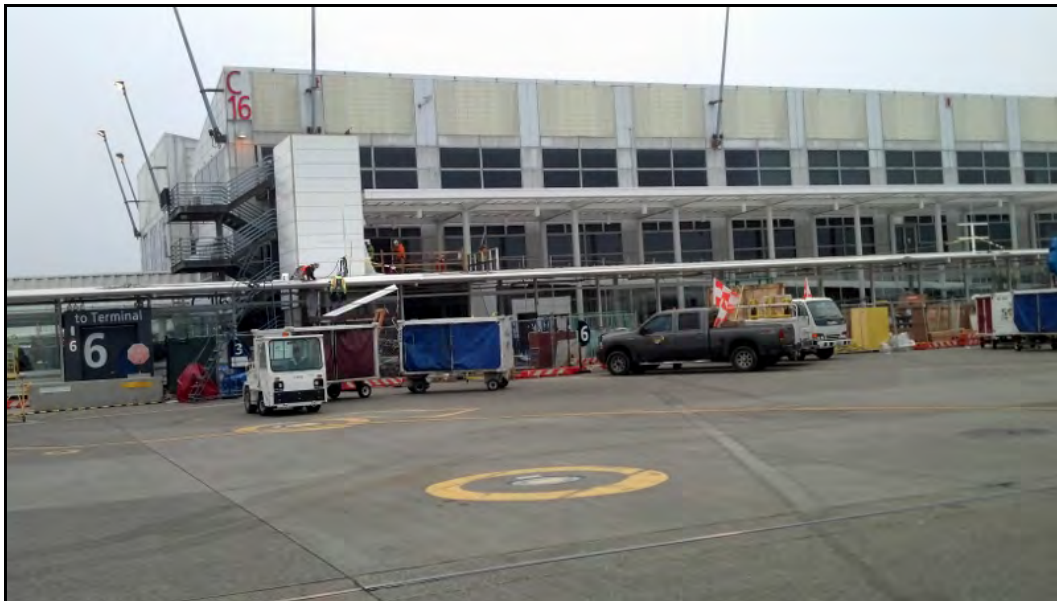


Photo 01: C Concourse Work Area (3/10/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: All Gates

Start Date: 3/16/2015

End Date: 3/22/2015

Environmental Agent: C. Marciniac, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	19	570	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

All Gates

There was no excavation work at the project site for the week ending 03-22-15.

~100 tons of impacted soil remains at the stockpile facility (ESF-CBNW) waiting to be hauled offsite to Allied; and ~75 tons of clean soil remains at the stockpile facility (ESF-CBWW) waiting to be hauled offsite.

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	3/17/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
3/17/2015	08:42	01	C Concourse Work Area



Photo 01: C Concourse Work Area (3/17/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: All Gates

Start Date: 3/23/2015

End Date: 3/29/2015

Environmental Agent: C. Marciniac, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	19	570	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

All Gates

There was no excavation work at the project site for the week ending 03-29-15.

~100 tons of impacted soil remains at the stockpile facility (ESF-CBNW) waiting to be hauled offsite to Allied; and ~75 tons of clean soil remains at the stockpile facility (ESF-CBWW) waiting to be hauled offsite.

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	3/24/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
3/24/2015	09:37	01	C Concourse Work Area



Photo 01: C Concourse Work Area (3/24/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Stockpile Facility

Start Date: 3/30/2015

End Date: 4/5/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
A/B	3	30	Allied	A/B	22	660	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 04-05-15.

~90 tons of impacted soil was hauled from the stockpile facility (ESF-CBNW) to Allied and ~75 tons of clean soil was hauled from the stockpile facility (ESF-CBWW) to a clean soil disposal site.

~30 tons of impacted soil remains at the stockpile facility (ESF-CBNW) waiting to be hauled offsite to Allied.

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	3/31/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
3/31/2015	10:11	01	C Concourse Work Area



Photo 01: C Concourse Work Area (3/31/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Stockpile Facility

Start Date: 4/6/2015

End Date: 4/12/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
A/B	1.5	30	Allied	A/B	23.5	705	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 04-12-15.

~45 tons of impacted soil was hauled from the stockpile facility (ESF-CBNW) to Allied (Republic Services).

There is no clean or impacted soil currently stockpiled at the site or at the stockpile facility.

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	4/7/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
4/7/2015	09:14	01	C Concourse Work Area



Photo 01: C Concourse Work Area (4/7/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C2 and C10/12

Start Date: 4/13/2015

End Date: 4/19/2015

Environmental Agent: C. Marciniak, G. Ferris, A. Johnson

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	1	5	NA	A/B	23.5	705	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gates C2 and C10/12

The contractor used a vacuum truck to excavate holes to install new bollards at Gate C2 (4) and Gate C10/12 (6).

All soil (~5 tons) was clean Type D material and was hauled offsite for disposal.

There is no clean or impacted soil currently stockpiled at the site or at the stockpile facility.

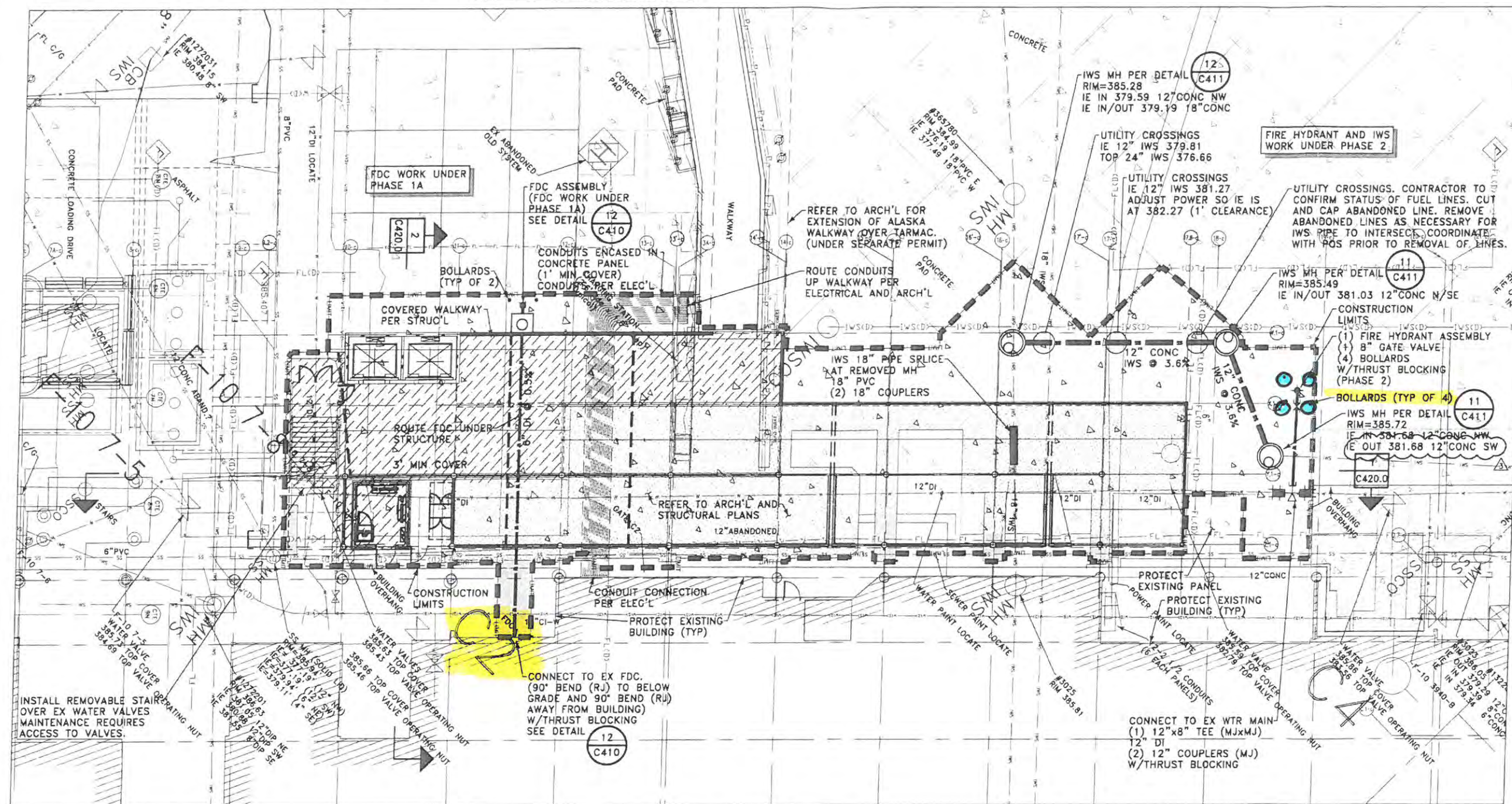
A copy of the pollution prevention plan inspection is attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND
EXISTING

PROPOSED

EXISTING

PROPOSED

6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 3 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL

CONCRETE SLAB ON
GRADE PER STRUC'L

6

C410

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

7

C410

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

1

C412

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

2

C412

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

3

C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C2

SCALE: 1" = 10'-0"

1"=10'-0" 10 5 0 10 20
Scale Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

SEE SHEET C001 FOR OVERALL LEGEND

**COUGHLIN
PORTER
LUNDEEN**

413 PINE STREET, SUITE 300
SEATTLE, WA 98101

P: 206/343-0440 F: 206/343-5691

A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR/ARCH

CPL

DESIGNER

JMB

DRAWN BY

PRW

SCALE

AS SHOWN

DATE

10/07/13

CHECKED BY

JMB

CHECKED/APPROVED BY

JAJ



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	12-16-13	JMB	ADDendum NO. 2						
2	12-20-13	JMB	ADDendum NO. 3						
3	12-27-13	JAJ	ADDendum NO. 4						

PROJECT MANAGER

JOE NESSE

PROJECT ENGINEER

DESIGN ENGINEER

DRAWN BY

SCALE

DATE

CHECKED/APPROVED BY

SCP

**Port
of Seattle SEA-TAC INTERNATIONAL AIRPORT**

PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade

SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO.

104784

CONSULTANT'S NO.

2011079

PORT OF SEATTLE NO.

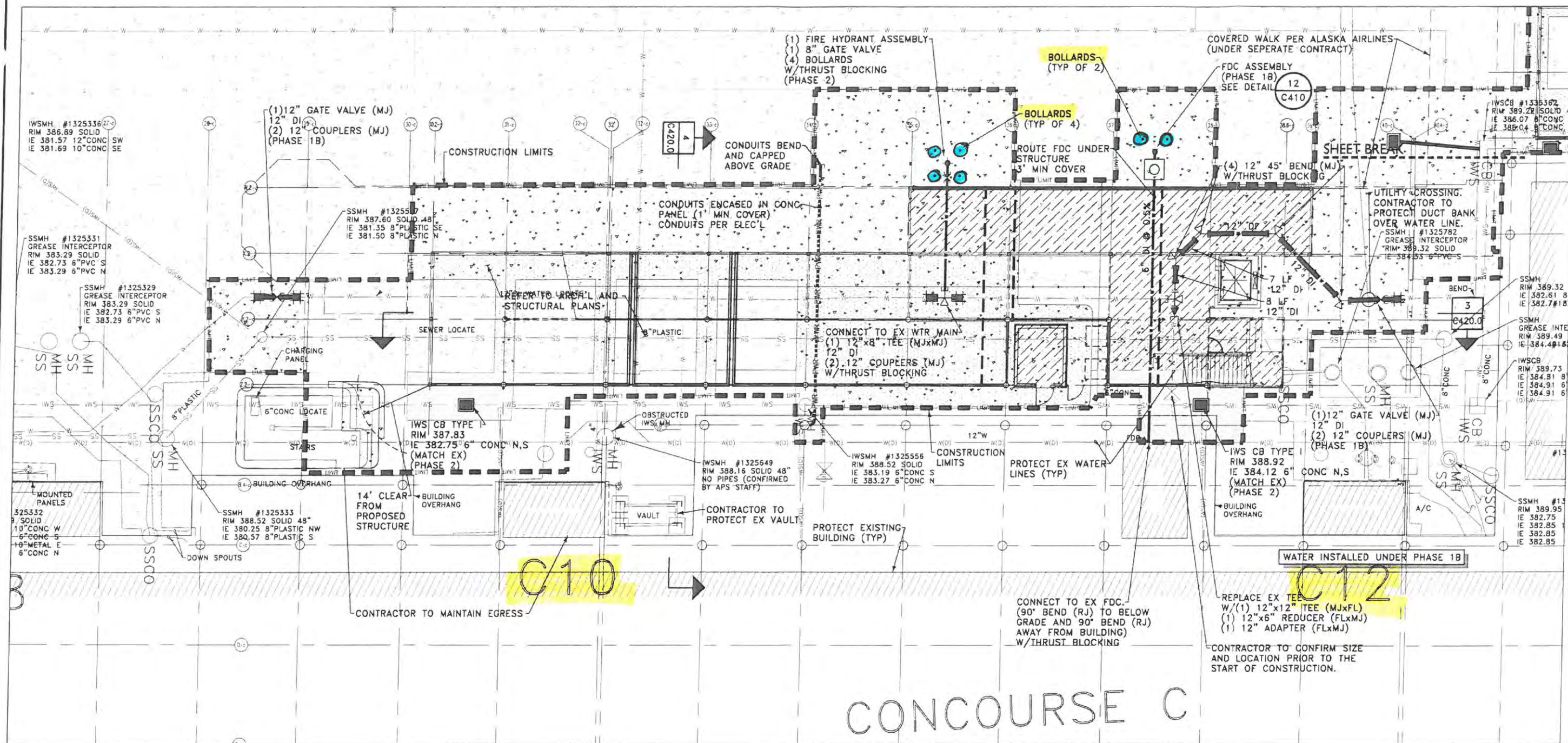
STIA-1314

C301.1

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND

EXISTING

PROPOSED

6\"/>

HEAVY DUTY CONCRETE PAVING
18 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12\"/>

CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING

PROPOSED

SEWER LINE
CONSTRUCTION LIMITS

PROPOSED STRUCTURE

ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL

NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL

NEW PCCP PANEL TO ASPHALT - SEE DETAIL

CIVIL SITE PLAN

RAMP LEVEL
GATE C10/C12

SCALE: 1\"/>

WKE: 04.19.2015



1\"/>

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

SEE SHEET C001 FOR OVERALL LEGEND

OAC

101 DEXTER AVENUE NORTH
SUITE 301
SEATTLE, WA 98109-4342
P: 206/443-0400
F: 206/443-0491
WWW.OACORCA.COM

**COUGHLIN
PORTER
LUNDEEN**

413 PINE STREET, SUITE 300
SEATTLE, WA 98101
P: 206/443-0400
F: 206/443-0491
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION



REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT

PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C10/C12

WORK PROJECT NO.

104784

CONSULTANT'S NO.

2011079

PORT OF SEATTLE NO.

STA-1314

C301.2

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	4/14/2015	
HM Inspector, Company	Andrew Johnson, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
4/14/2015	14:10	01	C Concourse Work Area



Photo 01: C Concourse Work Area (4/14/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C2 & C14

Start Date: 4/20/2015

End Date: 4/26/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	23.5	705	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 04-26-15.

There is no clean or impacted soil currently stockpiled at the site or at the stockpile facility.

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	4/21/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
4/21/2015	10:38	01	C Concourse Work Area



Photo 01: C Concourse Work Area (4/21/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C2 & C14

Start Date: 4/27/2015

End Date: 5/3/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	23.5	705	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 04-26-15.

There is no clean or impacted soil currently stockpiled at the site or at the stockpile facility.

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	4/28/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
4/28/2015	10:38	01	C Concourse Work Area



Photo 01: C Concourse Work Area (4/28/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C2 & C14

Start Date: 5/4/2015

End Date: 5/10/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	23.5	705	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 05-10-15.

There is no clean or impacted soil currently stockpiled at the site or at the stockpile facility.

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	5/5/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
5/5/2015	15:08	01	C Concourse Work Area

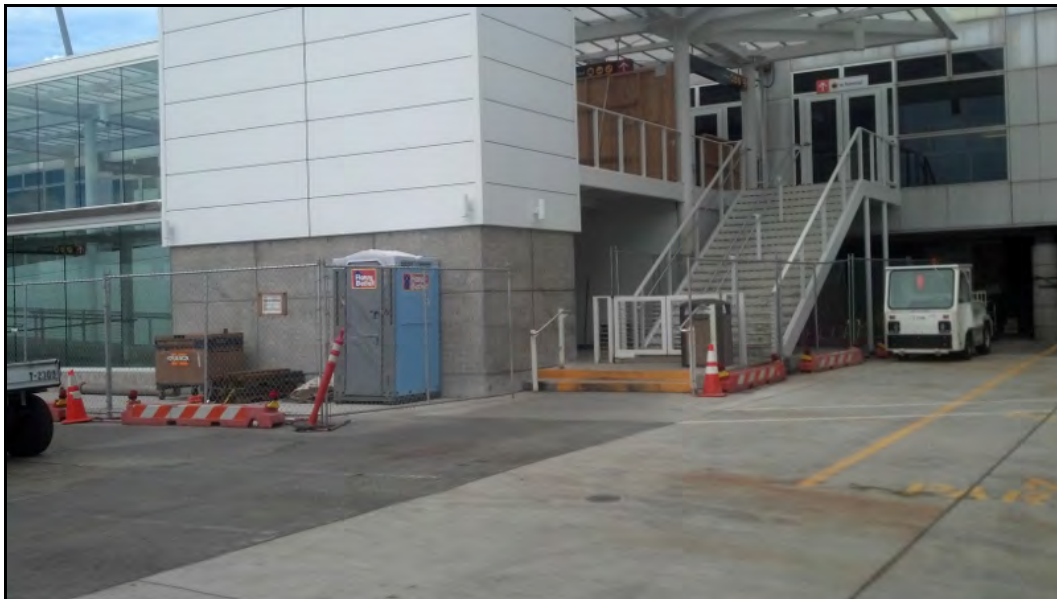


Photo 01: C Concourse Work Area (5/5/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C2

Start Date: 5/11/2015

End Date: 5/17/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	23.5	705	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #
5/14/2015	1120	051415-001			
5/14/2015	1122	051415-002			

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C2

There was no excavation work at the project site for the week ending 05-17-15.

There is no clean or impacted soil currently stockpiled at the site or at the stockpile facility.

A hydraulic fluid release occurred at Gate C2 on 05/14/15 and the details of the release and cleanup actions taken are summarized in the attached spill report.

A copy of the pollution prevention plan inspection is also attached.

Attached Map X Yes No

STIA SPILL REPORT
Form D-2

For all spills, complete this form and return to:
Surface Water Program Manager, Port of Seattle

Email: fox.s@portseattle.org

Or FAX: (206) 439-6617

1. Date & Time Spill was Reported: 05-14-2015 @ 10:52
2. Estimated Time Spill Occurred: 10:00
3. Name & Phone # of Person whom First Reported Spill: C. Heimbigner (206) 255-7815
4. Party Responsible and Cause for Spill: KONE: Removing the jack from under the elevator without spill protection.
5. Type of Material Spilled (Describe Odor/color, if unknown): Hydraulic fluid (petroleum odor)
6. Estimated Quantity or Dimensions of Area Covered by Spill: Bottom of service elevator: 8'Lx8'W on concrete also at four other locations on sidewalk.
7. Exact Location of Spill: C2: Service Elevator behind (north of) pedestrian bridge at lower level.
8. Did Material Reach a Catch Basin? Yes ☐ No ☒
9. If Yes, Catch Basin(CB) ID number (If No, Nearest CB to Spill): _____
10. If Yes, Drain Type: IWS ☐ Storm ☐ Sanitary Sewer ☐
11. Did Material Soak into Soil? Yes ☐ No ☒ Estimated Quantity (gal): _____
12. Weather Conditions at Site: Cloudy / Tem. 55
13. Action Taken (Description of Initial Containment/Recover Procedures): Crew used floor-dry to remove hydraulic fluid off concrete.
14. POS-FD Run #, if applicable: _____
15. Name of Individual Preparing Report: C. Marcineic
16. Date & Time Report was Completed: 05-15-2015

Check below upon completion

x All POS notifications made POS-FD, AV/ENV, AV/M

x Spill Form Completely filled out and sent. Date & Time Sent: 05-18-15 @ 1400

Below Information to be completed by Aviation Environmental

1. Property(ies)/Stream(s) Impacted? _____
2. Did Material Leave Property? Yes ☐ No ☐ Estimated Quantity (gal): _____
3. Types of Countermeasures Implemented? _____
4. Agencies Contacted? _____ Report #: _____
5. Resolution/COMMENTS: _____

CONTRACTOR TO POTHOLE IMPACTED
UTILITIES TO CONFIRM LOCATION, DEPTH AND
SIZE PRIOR TO START OF CONSTRUCTION.
UTILITIES SHOWN FOR REFERENCE ONLY.



HYDRAULIC
FLUID
RELEASE
(05-14-15)

HYDRAULIC RELEASE
05-14-2015



WORK PROJECT NO.	104784
CONSULTANT'S NO.	2011079
PORT OF SEATTLE NO.	STIA-1314 C301.1



Photo 051415-001 – May 14, 2015

Looking north at the bottom of the C2 service elevator shaft with floor-dry over hydraulic fluid residue, which extends to the first floor. The elevator jack was removed without proper protection to ensure that there would be no hydraulic fluid released.



Photo 051415-002 May 14, 2015

Looking east at floor-dry placed down to soak up hydraulic fluid on pavement after the POS inspector notified the contractor that they needed to contain the release.

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	5/12/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
5/12/2015	09:20	01	C Concourse Work Area

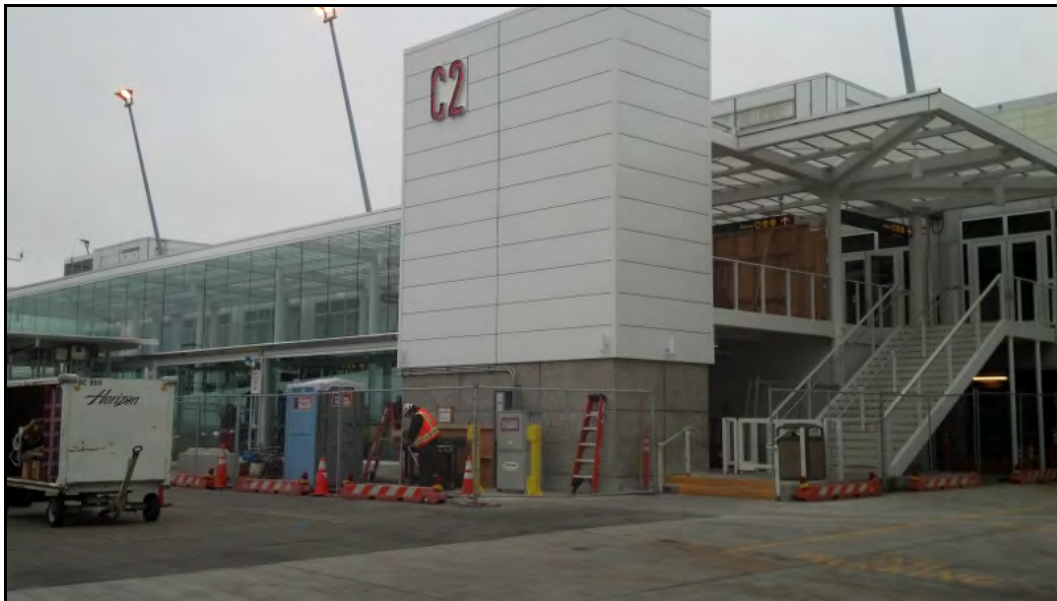


Photo 01: C Concourse Work Area (5/12/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C2 & C14

Start Date: 5/18/2015

End Date: 5/24/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	23.5	705	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 05-24-15.

There is no clean or impacted soil currently stockpiled at the site or at the stockpile facility.

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	5/19/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
5/19/2015	09:32	01	Contractor Laydown Area and Office Trailer



Photo 01: Logistics Laydown Area (5/19/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gates C2 & C14

Start Date: 5/25/2015

End Date: 5/31/2015

Environmental Agent: C. Marciniac, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	23.5	705	Allied
				D	NA	NA	Various

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 05-31-15. Excavation work that occurred late on 5/31 will be documented and summarized in next weeks report.

There is no impacted soil currently stockpiled at the site or at the stockpile facility.

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	5/27/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
5/27/2015	10:05	01	Contractor Work Area at the C Concourse

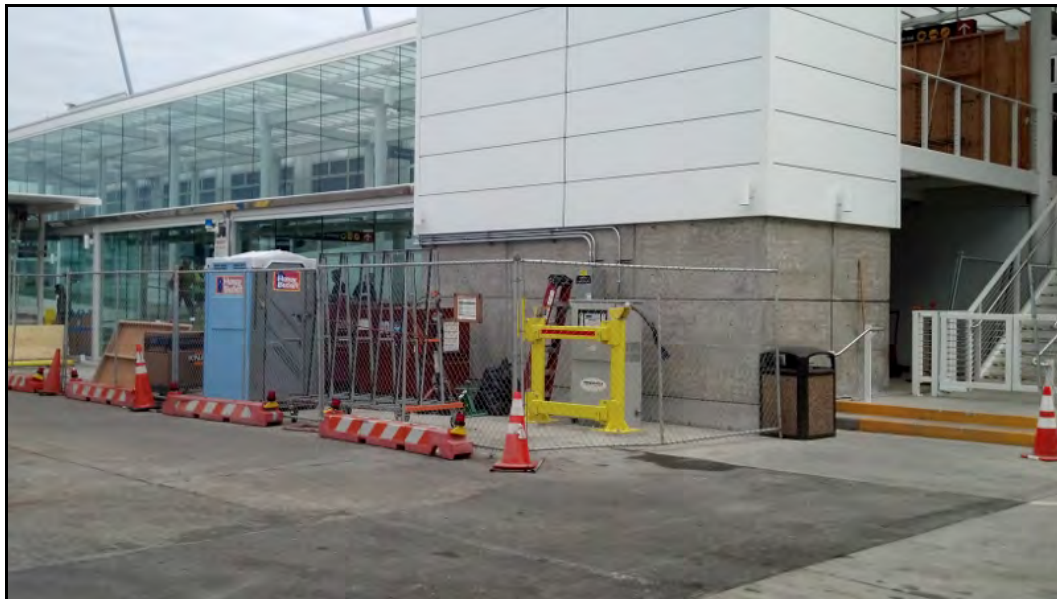


Photo 01: Contractor Work Area (5/27/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Gate C2

Start Date: 6/1/2015

End Date: 6/7/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
D	1	15	ESF-SBWW	A/B	23.5	705	Allied
				D	NA	NA	Various
				D	1	15	ESF-SBWW

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #
6/3/2015	910	060315-001			

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C2

A trench was excavated near Gate 2 to facilitate connection with the grease pits. The trench was approximately 40 feet long, 2 feet wide, 3 feet deep. Soil encountered was brown silty sand with gravel, no staining, no odors, PID = 0.0ppm (Type D 'clean' material).

Approximately 15 tons of clean soil was taken to the Environmental Stockpile Facility-South Bay West Wall (ESF-SBWW) for temporary storage.

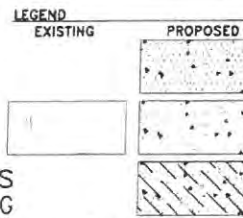
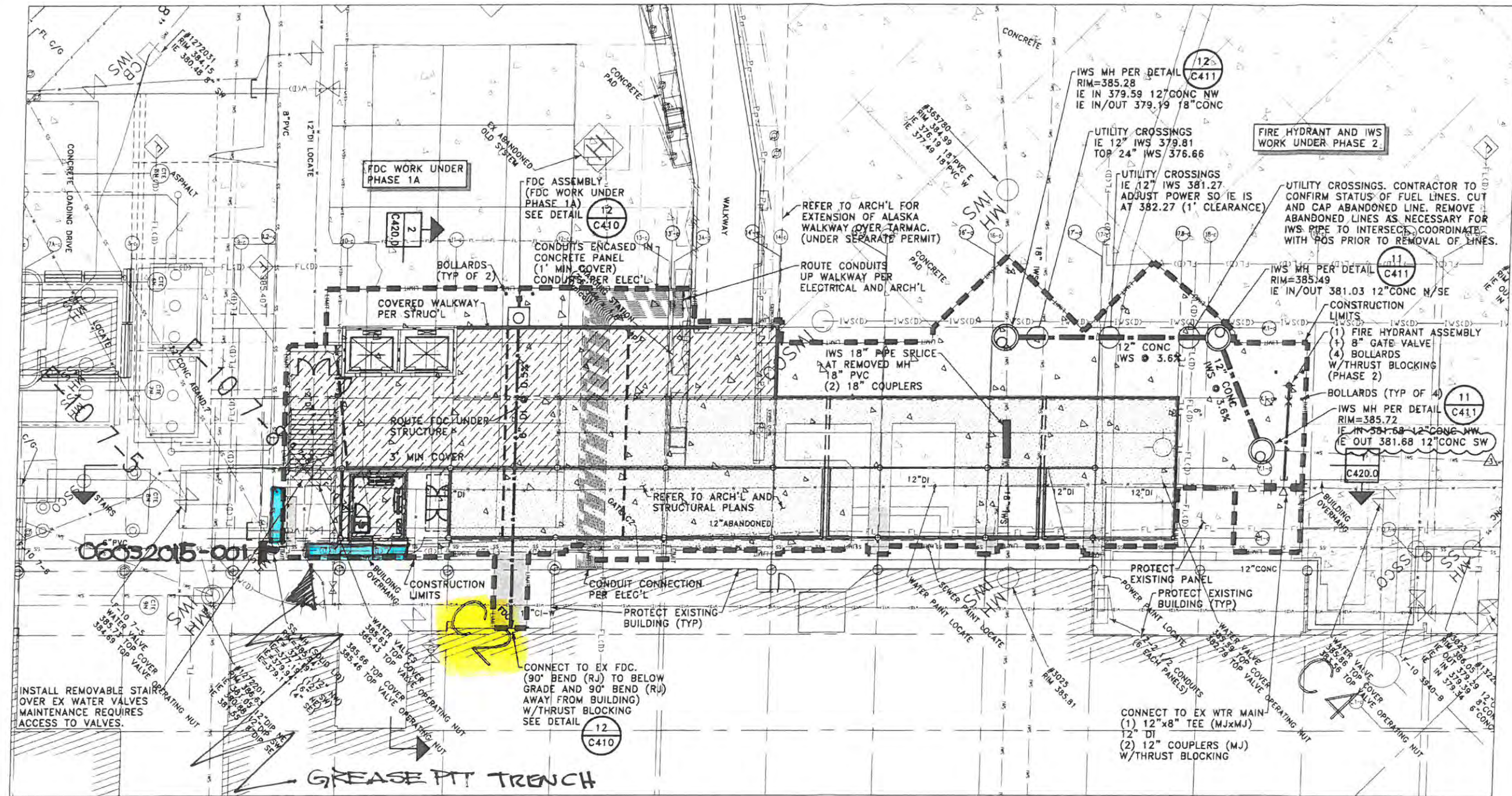
A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

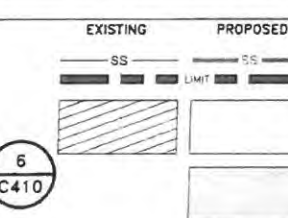
CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



6" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
16 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER DETAIL



SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

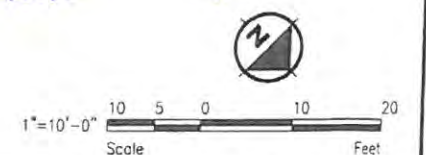
JOINT NOTES:

- NEW PCCP PANEL TO NEW PANEL - SEE DETAIL 1 C412
- NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL 2 C412
- NEW PCCP PANEL TO ASPHALT - SEE DETAIL 3 C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C2
SCALE: 1" = 10'-0"

WKE: 06-07-2015



CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

SEE SHEET C001 FOR OVERALL LEGEND

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	12-16-13	JMB	ADDendum NO. 2		2	12-20-13	JMB	ADDendum NO. 3	
2	12-27-13	JMB	ADDendum NO. 4						

OAC
701 Dexter Avenue North
Suite 301
Seattle, WA 98109-4342
P: 206 465 4300
F: 206 465 4371
www.oac-engineers.com

**COUGHLIN
PORTER
LUNDEEN**

413 PINE STREET, SUITE 300
SEATTLE, WA 98101
P: 206/343-0440
F: 206/343-5491
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION



PROJECT MANAGER
JOE NESSEL
PROJECT ENGINEER
DESIGN ENGINEER
DRAFTER
SCALE
DATE
CHECKED/APPROVED BY
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C2

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STA-1314 C301.1



Photo 060315-001

Looking northwest at a trench excavated for the new grease pit at Gate C2. The trench started near northeast corner of the Horizon Airline elevator at C-2 and continued around to the southwest.

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	6/4/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
6/4/2015	08:07	01	Contractor laydown area and office trailer at the logistics lot



Photo 01: Contractor Laydown Area (6/4/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Stockpile Facility

Start Date: 6/8/2015

End Date: 6/14/2015

Environmental Agent: C. Marciniak, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	23.5	705	Allied
				D	NA	NA	Various
				D	1	15	ESF-SBWW

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 06-14-15.

Approximately 15 tons of clean soil is currently at the Environmental Stockpile Facility-South Bay West Wall (ESF-SBWW).

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	6/9/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
6/9/2015	11:02	01	Contractor work area at the C Concourse

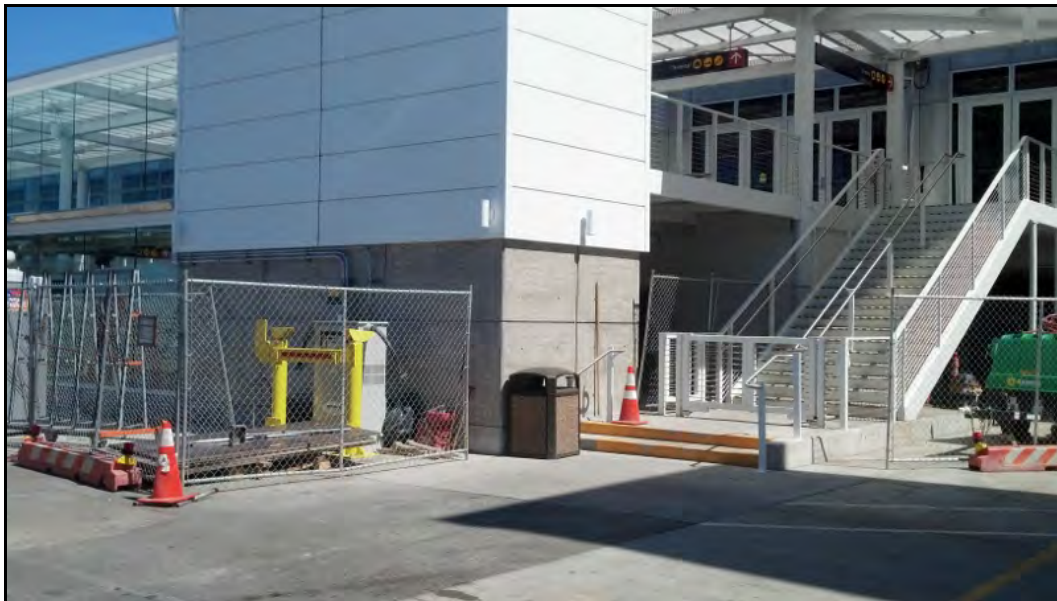


Photo 01: Contractor Work Area (6/9/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Stockpile Facility

Start Date: 6/15/2015

End Date: 6/21/2015

Environmental Agent: C. Marciniac, G. Ferris, D. Rohde

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	23.5	705	Allied
				D	NA	NA	Various
				D	1	15	ESF-SBWW

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 06-21-15.

Approximately 15 tons of clean soil is currently at the Environmental Stockpile Facility-South Bay West Wall (ESF-SBWW).

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	6/17/2015	
HM Inspector, Company	Daniel J. Rohde, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
6/17/2015	13:12	01	Contractor work area at the C Concourse



Photo 01: Contractor Work Area (6/17/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Gate C14

Start Date: 6/22/2015

End Date: 6/28/2015

Environmental Agent: C. Marciniak, G. Ferris, R. Petrilli

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
B	1	3	Decant #2	A/B	19	570	Allied
				D	NA	NA	Various
				B	1	3	Decant #2

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #
6/25/2015	835	062515-001			
6/25/2015	1233	062515-002			

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Gate C14

Work during the week at Gate C14 included installing the protective bollards. The soil encountered was gray silty sand with gravel, gray staining, glycol odor, PID=0.0ppm. The Type B soil was removed using a vacuum truck and the material was placed in the Decant Cell #2 to allow it to dewater. The Port has also agreed to dispose of the material at Waste Management.

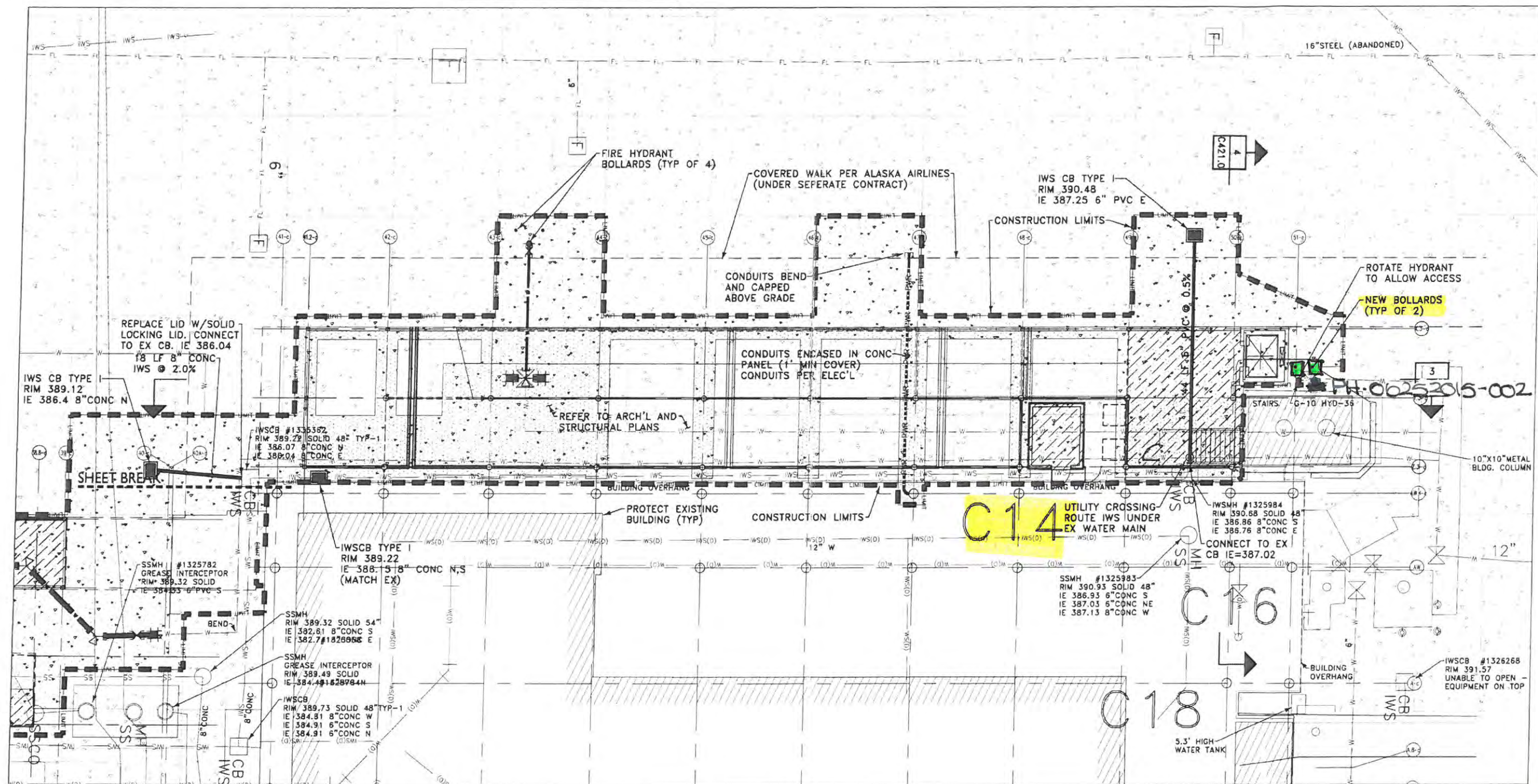
Approximatley 15 tons of clean soil remains at the stockpile facility (south bay west wall) that will need to be removed by Forma. A copy of the pollution prevention plan inspection is attached.

Attached Map X Yes No

CONTRACTOR TO COORDINATE WITH POS DURING CONSTRUCTION TO ENSURE REQUIRED MAINTENANCE ON UTILITIES CAN OCCUR.

REMOVAL OF AND DOWNTIME FOR EXISTING STAIRS, GATES, AND PEDESTRIAN ACCESS STRUCTURES TO BE COORDINATED WITH POS.

CONTRACTOR TO POTHOLE IMPACTED UTILITIES TO CONFIRM LOCATION, DEPTH AND SIZE PRIOR TO START OF CONSTRUCTION. UTILITIES SHOWN FOR REFERENCE ONLY.



LEGEND



6\" CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVING
18 INCHES CONCRETE CEMENT
OVER 8 INCHES CRUSHED ROCK
BASE COURSE W/ #4 BARS
12\" O.C. EACH WAY PER DETAIL
CONCRETE SLAB ON
GRADE PER STRUC'L

EXISTING PROPOSED



SEWER LINE
CONSTRUCTION LIMITS
PROPOSED STRUCTURE
ASPHALT PAVING
PER DETAIL

JOINT NOTES:

NEW PCCP PANEL TO NEW PANEL - SEE DETAIL C412
NEW PCCP PANEL TO EXISTING PANEL - SEE DETAIL C412
NEW PCCP PANEL TO ASPHALT - SEE DETAIL C412

CIVIL SITE PLAN

RAMP LEVEL
GATE C14
SCALE: 1\" = 10'-0\"

WKE: 06.28.2019



1\" = 10'-0\"
Scale 10 5 0 10 20
Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

COUGHLIN
PORTER
LUNDEEN

413 PINE STREET, SUITE 100
SEATTLE, WA 98101
P: 206/443-0440
F: 206/443-5691
A CONSULTING
STRUCTURAL AND CIVIL
ENGINEERING CORPORATION

PROJECT ENGR./ARCH:
CPL
DESIGNER:
JWB
DRAWN BY:
PRW
SCALE:
AS SHOWN
DATE:
10/07/13
CHECKED BY:
JWB
CHECKED/APPROVED BY:
JAJ

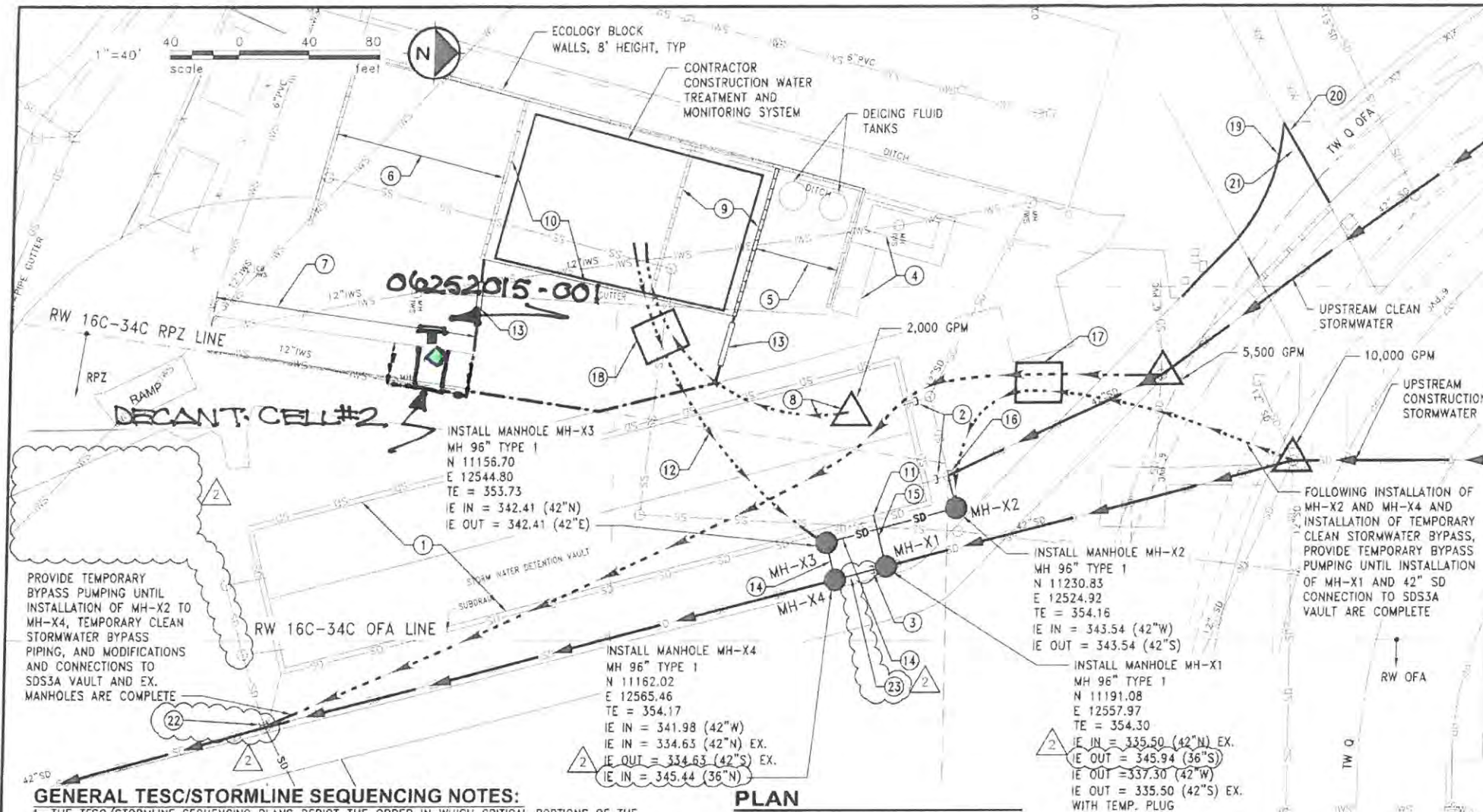


REVISIONS					
NO.	DATE	BY	DESCRIPTION	APPROVED	

PROJECT MANAGER:
JOE NESSEL
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAWER:
SCALE:
DATE:
CHECKED/APPROVED BY:
SCP

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: Concourse C Vertical Circulation
Vertical Conveyance System Upgrade
SHEET TITLE: Civil Site Plan C14

WORK PROJECT NO.
104784
CONSULTANT'S NO.
2011079
PORT OF SEATTLE NO.
STIA-1314 C301.3



KEY NOTES:

- SDS3A VAULT TO BE USED BY CONTRACTOR FOR TEMPORARY STORAGE OF CONSTRUCTION STORMWATER AND OTHER UPSTREAM RUNOFF.
- INSTALL AND MAINTAIN TEMPORARY WATERTIGHT PLUG AT THE SOUTH 36" OPENINGS OF EX. SD MANHOLES.
- INSTALL AND MAINTAIN A TEMPORARY WATERTIGHT PLUG AT THE OPENING FOR THE EX. 42" SD TO SOUTH.
- HAZARDOUS MATERIAL STORAGE CONTAINERS: STORAGE OF FUEL AND CHEMICALS OR OPERATION OF GENERATORS WITHIN 100FT OF THESE CONTAINERS IS PROHIBITED.
- MAINTAIN ACCESS TO DEICING FLUID CONTAINERS AT ALL TIMES.
- MAINTAIN ACCESS TO STOCKPILE STORAGE BIN AT ALL TIMES.
- MAINTAIN ACCESS TO DECANT BINS AT ALL TIMES.
- PUMP FROM SDS3A VAULT ACCESS HATCH TO TREATMENT SYSTEM (2,000 GPM MINIMUM PUMPING CAPACITY).
- TEMPORARILY RELOCATE ECOLOGY BLOCK WALL TO NORTH BY APPROX. 50 FT.
- AREA AVAILABLE FOR CONTRACTOR WATER STORAGE TANKS (14.5' MAX HEIGHT).
- CORE INTO EXISTING REINFORCED CONCRETE VAULT WALL FOR TEMPORARY 42" HDPE PIPE IE = 337.00 (42"E). SDS3A VAULT SHALL BE DEWATERED AND UPSTREAM FLOW SHALL BE IN BYPASS DURING CONNECTION.
- DISCHARGE TREATED EFFLUENT TO STORM SYSTEM.
- TESC TEMPORARY AC BERM. SEE DETAIL 9, CZ1.03.
- TEMPORARY 42" HDPE STORM PIPE FOR CONVEYANCE OF CLEAN UPSTREAM STORMWATER. INSTALL PRIOR TO TEMPORARY CONSTRUCTION STORMWATER BYPASS PIPING AND CONNECTION TO SDS3A VAULT.
- TEMPORARY 42" HDPE STORM PIPE FOR BYPASS CONVEYANCE OF CONSTRUCTION STORMWATER TO SDS3A VAULT.
- CONNECT TEMPORARY 42" HDPE TO EX. MANHOLE IE = 343.65 (42" E).
- PUMP LOCATIONS FOR TEMPORARY BYPASS SHALL BE OUTSIDE OF RUNWAY 16C-34C RPZ AND OFA AND TAXIWAY Q OFA WHILE THESE SURFACES ARE OPERATIONAL.
- PUMP LOCATION FOR TREATMENT SYSTEM OPERATION SHALL BE LOCATED IN AREA BOUNDED BY TESC AC CURB.
- TEMPORARILY BLACK OUT EXISTING MOVEMENT AREA LINE MARKING (135 LF). MOVEMENT AREA LINE MARKING TO BE REPLACED IN KIND AT CONCLUSION OF PROJECT AS DIRECTED BY THE ENGINEER.
- INSTALL NEW TEMPORARY MOVEMENT AREA LINE MARKING (55 LF) AS DIRECTED BY THE ENGINEER. SEE DETAIL 3, SHEET CZ1.29. TEMPORARY MOVEMENT AREA LINE MARKING TO BE REMOVED AT CONCLUSION OF PROJECT AS DIRECTED BY THE ENGINEER.
- INSTALL TEMPORARY 2 FT TALL WHITE LETTERING ON BLACK BACKGROUND THAT READS "ONLY AUTHORIZED AMA DRIVERS BEYOND THIS POINT". LETTERING TO BE INSTALLED AS DIRECTED BY THE ENGINEER AND REMOVED AT CONCLUSION OF PROJECT.
- INSTALL AND MAINTAIN A TEMPORARY WATERTIGHT PLUG AT OPENING FOR THE EX. 42" FROM WEST.
- INSTALL TEMPORARY 36" OVERFLOW PIPE BETWEEN MH-X1 AND MH-X4, OVER EXISTING 42" PIPE.

LEGEND:

- MAINTAIN FLOW IN EXISTING OR NEW STORM DRAIN LINE THIS PHASE
- TEMPORARY ABOVE GROUND CONVEYANCE PIPING
- HIGH VISIBILITY ORANGE SILT FENCE. SEE DETAIL 5, SHEET CZ1.03
- TESC TEMPORARY AC CURB. SEE DETAIL 3, SHEET CZ1.03
- INLET WATTLE PROTECTION. SEE DETAIL 15, SHEET CZ1.04
- TEMPORARY PLUG
- STRUCTURE USED AS SUMP FOR PUMPING OF STORMWATER AS NOTED OR INTO A PORT APPROVED PORTION OF THE STORM DRAIN SYSTEM OR AIRFIELD. CONTRACTOR SHALL LOCATE OTHER SUMPS ON SITE FOR COLLECTION OF STANDING WATER AS REQUIRED
- XXX GPM (PUMP CONVEYANCE REQUIRED IN GALLONS PER MINUTE TO DESIGNATED LOCATION)

GENERAL TESC/STORMLINE SEQUENCING NOTES:

- THE TESC/STORMLINE SEQUENCING PLANS DEPICT THE ORDER IN WHICH CRITICAL PORTIONS OF THE EXISTING STORM SYSTEM SHALL BE REMOVED AND THE NEW STORM SYSTEM SHALL BE CONSTRUCTED, INCLUDING REQUIRED TEMPORARY CONDITIONS AND MEASURES TO PERFORM THE WORK. PIPES SMALLER THAN 12" DIAMETER MAY BE INSTALLED DURING ANY PHASE. SEE SHEETS C1.01A THROUGH C1.18A FOR THE STORM SYSTEM DEMOLITION WORK AND SHEETS C2.00 THROUGH C2.50 FOR THE NEW STORM SYSTEM WORK.
- THE TESC/STORMLINE SEQUENCING PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE OPERATIONAL PHASING REQUIREMENTS.
- SEE SHEETS CZ1.03 AND CZ1.04 FOR TESC DETAILS.
- THE CONTRACTOR SHALL ANTICIPATE THAT THE STORM SYSTEM CONVEYANCE INFRASTRUCTURE MAY BE IN FULL FLOW CONDITIONS THROUGHOUT THE CONTRACT DURATION, ANY PORTION OF THE STORM SYSTEM THAT IS BEING REPLACED, DEMOLISHED, MODIFIED OR CONNECTED TO SHALL BE FULLY DEWATERED AND ISOLATED TO PREVENT UPSTREAM FLOW OR BACKWATER CONDITIONS FROM ENTERING THE PORTION OF THE SYSTEM UNDER CONSTRUCTION. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN UPSTREAM FLOW AROUND THE PORTIONS OF THE SYSTEM UNDER CONSTRUCTION AND SHALL PHASE THE WORK ACCORDINGLY.
- THE CONTRACTOR SHALL PLACE SUMPS OR LOW POINTS WITHIN THE PROJECT SITE AS REQUIRED AND PROVIDE CONTINUOUS DEWATERING. THE CONTRACTOR SHALL NOT LET STANDING WATER OCCUR WITHIN THE PROJECT SITE. CONVEYANCE OF CONSTRUCTION STORMWATER FROM DEWATERING SHALL BE TO A PORT APPROVED PORTION OF THE STORM DRAIN SYSTEM OR AIRFIELD.
- THE TESC MEASURES SHOWN ARE A MINIMUM REQUIREMENT. MEASURES SHALL BE MAINTAINED, UPGRADED, AMENDED, REPAIRED OR REPLACED AS NEEDED TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT LEAVE THE PROJECT SITE, ENTER THE DOWNSTREAM DRAINAGE SYSTEMS, BE TRACKED ON ROADWAYS OR ACTIVE SURFACES, OR VIOLATE APPLICABLE WATER STANDARDS.
- ALL CATCH BASINS, VAULTS, MANHOLES AND STORM DRAIN LINES SHALL BE CLEANED AND INSPECTED PRIOR TO ACCEPTANCE. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER OR DEBRIS INTO THE ACTIVE DOWNSTREAM STORM SYSTEM.
- ALL PUMPING OPERATIONS AND TEMPORARY PIPING/CONNECTIONS REQUIRED TO IMPLEMENT THE TESC/STORMLINE SEQUENCING PLAN SHALL BE MEASURED AND PAID FOR UNDER THE LUMP SUM BID ITEM FOR "CONSTRUCTION WATER MANAGEMENT SYSTEM".

PLAN

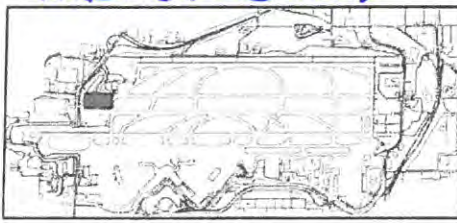
SDS3A VAULT
SCALE: 1" = 40'

SDS3A TREATMENT FACILITY NOTES:

- THE CONTRACTOR SHALL DESIGN, INSTALL AND OPERATE A CONSTRUCTION WATER TREATMENT AND MONITORING FACILITY TO MEET THE MINIMUM EFFLUENT PERFORMANCE CRITERIA DESCRIBED IN SPECIFICATION SECTION 02245, CONSTRUCTION WATER MANAGEMENT SYSTEM.
- THE SDS3A VAULT SHALL BE UTILIZED BY THE CONTRACTOR FOR THE TEMPORARY STORAGE OF CONSTRUCTION STORMWATER FROM THE PROJECT SITE. AT MINIMUM THE CONTRACTOR SHALL MAKE THE TEMPORARY MODIFICATIONS TO THE EXISTING SDS3A STORM DRAIN CONVEYANCE INFRASTRUCTURE AND INSTALL THE TEMPORARY BYPASS PIPING AND STRUCTURES AS DEPICTED ON THIS PLAN. ADDITIONAL, TEMPORARY CONVEYANCE INFRASTRUCTURE MAY BE REQUIRED FOR THE CONTRACTOR'S TREATMENT SYSTEM. ANY ADDITIONAL MODIFICATIONS TO EXISTING INFRASTRUCTURE REQUIRED FOR THE CONTRACTOR'S TREATMENT SYSTEM SHALL BE APPROVED BY THE PORT.
- THE CONTRACTOR FURNISHED TREATMENT SYSTEM WHEN UTILIZED IN CONJUNCTION WITH THE SDS3A STORAGE VAULT FOR TEMPORARY STORAGE OF CONSTRUCTION STORMWATER SHALL BE DESIGNED TO HANDLE AND TREAT THE 10-YEAR RUNOFF EVENT AND AS SUCH BE EQUIPPED TO OPERATE WITH THE FOLLOWING SYSTEM PARAMETERS:
 - PROVIDE AND MAINTAIN A MINIMUM PUMPING CAPACITY FROM THE SDS3A VAULT TO THE TREATMENT SYSTEM OF 2,000 GPM.
 - THE TREATMENT SYSTEM SHALL HAVE AN OPERATING TREATMENT CAPACITY OF 2,000 GPM WHILE MEETING THE MINIMUM EFFLUENT DISCHARGE PERFORMANCE CRITERIA.
 - THE CONTRACTOR SHALL PROVIDE TREATMENT FOR UP TO 25 MILLION GALLONS OF STORMWATER DURING THE PROJECT.
 - THE PEAK 10-YEAR CONSTRUCTION STORMWATER FLOW FROM THE PROJECT SITE THAT SHALL BE DIVERTED TO THE SDS3A VAULT FOR TREATMENT IS 21.5 CFS (9,650 GPM). THE CONTRACTOR SHALL AT ALL TIMES PROVIDE ON-SITE BY-PASS PIPING AND PUMPING CAPABILITY OF 10,000 GPM AROUND THE SDS3A VAULT.

- THE AVAILABLE TEMPORARY STORAGE OF THE SDS3A VAULT IS APPROXIMATELY 5.5 ACRE-Feet (1.79 MILLION GALLONS).
- THE APPROVED CONTRACTOR FURNISHED TREATMENT SYSTEM AND THE WORK DEPICTED ON THIS PLAN SHALL BE IN PLACE AND OPERATIONAL PRIOR TO BEGINNING ANY WORK WITHIN THE RUNWAY 16C-34C PROJECT SITE.
- FOLLOWING CONCLUSION OF TREATMENT OPERATIONS, THE CONTRACTOR SHALL REMOVE ALL SEDIMENT, REGARDLESS OF ORIGIN, FROM THE SDS3A VAULT AND EXISTING VAULT CONTROL FACILITIES AND MAKE THE VAULT AVAILABLE TO INSPECTION BY PORT STAFF. ALL SEDIMENT SHALL BE DISPOSED OF BY THE CONTRACTOR OFF PORT PROPERTY. SEDIMENT REMOVAL FROM THE SDS3A VAULT AND DISPOSAL SHALL BE PAID FOR UNDER THE "CONSTRUCTION WATER MANAGEMENT SYSTEM-FORCE ACCOUNT" ITEM.
- AT THE DIRECTION OF THE PORT, REMOVE OR ABANDON ALL TEMPORARY CONNECTIONS AND PIPING. REMOVE ALL TEMPORARY PLUGS AND CONTROLS AND RESTORE SDS3A OPERATIONS TO THEIR ORIGINAL CONDITIONS.
- FOLLOWING CONCLUSION OF TREATMENT OPERATIONS AND NOTIFICATION BY THE PORT, THE CONTRACTOR SHALL REMOVE THEIR TREATMENT SYSTEM AND ANY ASSOCIATED TEMPORARY IMPROVEMENTS WITHIN 14 CALENDAR DAYS.
- ALL WORK DEPICTED ON THIS SHEET INCLUDING BUT NOT LIMITED TO PUMPING, STRUCTURES, PIPING, DEWATERING, MODIFICATION TO EXISTING STRUCTURES, SITE PREPARATION, INSTALLATION OF TREATMENT AND MONITORING FACILITY, ALL REMOVALS AND RESTORATIONS SHALL BE MEASURED AND PAID FOR UNDER THE LUMP SUM BID ITEM FOR "CONSTRUCTION WATER MANAGEMENT SYSTEM".

WKE: 06-28-2015



KEYMAP

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555



PROJECT ENGINEER/ARCHITECT	CHRISTOPHER J. COULTER
DESIGNER	MIKE S. STANEK
DRAWN BY	WANDY G. HATCHER
SCALE	AS NOTED
DATE	NOVEMBER 14, 2014
CHECKED BY	
CHECKED/APPROVED BY	CHRISTOPHER J. COULTER



REVISIONS					
NO.	DATE	BY	DESCRIPTION	APPROVED	NO.
1	11/14/14		ISSUED FOR BID		
2	11/15/15		REV 1 (ADDENDUM 4)		
3	04/06/16	CC	DESIGN BULLETIN #2		

PROJECT MANAGER	DON F. AXT
PROJECT ENGINEER	
DESIGN ENGINEER	
DRAWER	
SCALE	1" = 40'
DATE	
CHECKED BY	

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: RW 16C-34C RECONSTRUCTION
SHEET TITLE: TESC/STORMLINE SEQUENCING, SDS3A VAULT

WORK PROJECT NO.	104102
CONSULTANT'S NO.	60107
PORT OF SEATTLE NO.	STA-1501 C0.01



Photo 062515-001

Looking southeast at Decant Cell #2 where Type B impacted material from Gate C-14 bollard installation work was placed. The small amount of soil will be hauled to Waste Management by Port Maintenance.



Photo 062515-002

Looking west at the bollard excavation location (under the plywood) at Gate C-14.

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	6/24/2015	
HM Inspector, Company	Rory Petrilli, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction and laydown areas at the time of inspection.

Photo Log

Date	Time	Photo #	Description
6/24/2015	1245	01	Final painting for project; all materials in use and on drop cloth.



Photo 01: Final painting for project; all materials in use and on drop cloth. (6/24/2015)

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Stockpile Facility

Start Date: 6/29/2015

End Date: 7/5/2015

Environmental Agent: C. Marciniac, G. Ferris, R. Petrilli

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	19	570	Allied
				D	NA	NA	Various
				B	1	3	Decant #2

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Size	Tank		Gallons Removed
		Wrapping	Lineal Ft.	Diameter		Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 07-05-15. All planned excavation work has been completed.

Approximatley 15 tons of clean soil remains at the stockpile facility (south bay west wall) that will need to be removed by Forma.

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631 **Weekly Inspection Log**

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	6/30/2015	
HM Inspector, Company	Rory Petrilli, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction areas at the time of inspection. However, there was debris on the asphalt pavement in the Forma yard in Lot 1-G (logistics) which should be swept to prevent it from entering the storm drains.

Photo Log

Date	Time	Photo #	Description
6/30/2015	1030	01	Debris on the asphalt in the Forma yard in Lot 1-G (logistics).



Photo 01: Debris on the asphalt around Forma yard; Lot 1-G.

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Stockpile Facility

Start Date: 7/6/2015

End Date: 7/12/2015

Environmental Agent: C. Marciniac, G. Ferris, R. Petrilli

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	19	570	Allied
				D	NA	NA	Various
				B	1	3	Decant #2

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 07-12-15. All planned excavation work has been completed.

Approximatley 15 tons of clean soil remains at the stockpile facility (south bay west wall) that will need to be removed by Forma.

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	7/6/2015	
HM Inspector, Company	Rory Petrilli, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction areas at the time of inspection. However; there was a debris remains on asphalt pavement in the Forma yard in Lot 1-G which should be swept to prevent it from entering the storm drains.

Photo Log

Date	Time	Photo #	Description
7/6/2015	1200	01	Debris on the asphalt pavement in the Forma yard in Lot 1-G



Photo 01: Debris on the asphalt pavement around Forma yard; Lot 1-G

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Stockpile Facility

Start Date: 7/13/2015

End Date: 7/19/2015

Environmental Agent: C. Marciniak, G. Ferris, R. Petrilli

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	19	570	Allied
				D	NA	NA	Various
				B	1	3	Decant #2

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 07-19-15. All planned excavation work has been completed.
Approximately 15 tons of clean soil remains at the stockpile facility (south bay west wall) that will need to be removed by Forma.
A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784		
Construction Prime Contractor	FORMA Construction		
Inspection Date	7/17/2015		
HM Inspector, Company	Rory Petrilli, DH Environmental Inc.		
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org	
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org	
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org	
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org	
	Caleb Peats, FORMA Construction	calebp@formacc.com	
	Brad Shuman, FORMA Construction	brads@formacc.com	
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com	
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org	
Observations			
<p>Actions Required/Comments:</p> <p>BMPs were implemented as required at all construction areas at the time of inspection.</p> <p>There was debris on the asphalt in the Forma yard in Lot 1-G which was on swept on 7/15/15 which will prevent debris from entering the storm drains.</p>			
Photo Log			
Date	Time	Photo #	Description
7/14/2015	0920	01	Debris on the asphalt in the Forma yard in Lot 1-G
7/17/2015	1200	02	The Forma yard in Lot 1-G was swept on 7/15/15.



Photo 01: Debris on the asphalt around Forma yard; Lot 1-G



Photo 02: The Forma yard in Lot 1-G was swept on 7/15/15.

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Stockpile Facility

Start Date: 7/20/2015

End Date: 7/26/2015

Environmental Agent: C. Marciniak, G. Ferris, R. Petrilli

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	19	570	Allied
				D	NA	NA	Various
				B	1	3	Decant #2

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 07-26-15. All planned excavation work has been completed.

Approximatley 15 tons of clean soil remains at the stockpile facility (south bay west wall) that will need to be removed by Forma.

A copy of the pollution prevention plan inspection is attached.

Attached Map ☐ Yes ☒ No

Construction Site Pollution Prevention - Section 01631

Weekly Inspection Log

Project	Concourse C Vertical Circulation - 104784	
Construction Prime Contractor	FORMA Construction	
Inspection Date	7/20/2015	
HM Inspector, Company	Rory Petrilli, DH Environmental Inc.	
Distribution	Rad Milosavljević , POS Resident Engineer	milosavljevic.r@portseattle.org
	David Jenkins, POS Stormwater Engineer	jenkins.d@portseattle.org
	Stacy Fox, POS Environmental Program Mgr.	fox.s@portseattle.org
	Christian Heimbigner, POS Construction Inspector	Heimbigner.C@portseattle.org
	Caleb Peats, FORMA Construction	calebp@formacc.com
	Brad Shuman, FORMA Construction	brads@formacc.com
	Greg Ferris, Aspect Consulting	gferris@aspectconsulting.com
	Dave Hill, DH Environmental, Inc.	hill.d@portseattle.org

Observations

Actions Required/Comments:

BMPs were implemented as required at all construction areas at the time of inspection.

This inspection was of the Forma Logistics Lot 1-G. Work on the AOA has been completed (except for the removal of ~15 tons of clean soil from the stockpile facility); inspections will continue at the Logistics Lot until Forma has removed all equipment.

Photo Log

Date	Time	Photo #	Description

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical

Project: Circulation

SD # SD-09

Location: Stockpile Facility

Start Date: 7/27/2015

End Date: 8/2/2015

Environmental Agent: C. Marciniak, G. Ferris, R. Petrilli

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	19	570	Allied
				D	NA	NA	Various
				B	1	3	Decant #2

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Size	Tank		Gallons Removed
		Wrapping	Lineal Ft.	Diameter		Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 08-02-15. All planned excavation work has been completed.

Approximately 15 tons of clean soil remains at the stockpile facility (south bay west wall) that will need to be removed by Forma.

Pollution prevention plan inspections on the airfield have been suspended (no report attached) as the contractor has demobilized from the site. Inspections will continue in the logistics until Forma has demobilized from that area.

Attached Map ___ Yes ___X_No

ENVIRONMENTAL AGENT WEEKLY LOG BOOK SUMMARY

Concourse C Vertical
Project: Circulation

SD # SD-09

Location: Stockpile Facility

Start Date: 8/3/2015

End Date: 8/9/2015

Environmental Agent: C. Marciniac, G. Ferris

OFF SITE TRUCKS:

				Cumulative to Date			
Type	# Loads	Tons/Load	Sent To	Type	# Loads	Tons	Sent To
				A/B	19	570	Allied
				D	NA	NA	Various
				B	1	3	Decant #2

SAMPLES:

Sample #	GPS #	PID	Sample #	GPS #	PID

PHOTO DOC:

Date	Time	Photo #	Date	Time	Photo #

FUEL LINE/TANK REMOVAL/OTHER:

Owner	Date	Fuel Line			Tank			Gallons Removed
		Wrapping	Lineal Ft.	Diameter	Size	Diameter	Length	

OBSERVATIONS:

Stockpile Facility

There was no excavation work at the project site for the week ending 08-09-15. All planned excavation work has been completed.

The 15 tons of clean soil at the stockpile facility has been removed.

Pollution prevention plan inspections on the airfield have been suspended (no report attached) as the contractor has demobilized from the site. Inspections will continue in logistics until Forma has demobilized from that area.

This will be the final Weekly EA Report for the project.

Attached Map ___ Yes X No