

## HORSESHOE LAKE MANAGEMENT COMMITTEE AGENDA

5:00 P.M. - THURSDAY, MAY 8, 2014

Woodland Police Station - Council Chambers  
200 East Scott Avenue  
Woodland, WA 98674

- I. Call to Order
- II. **Minutes for March 13, 2013** (April 10, 2014 Cancelled)
- III. Continued Business
  - A. Pump & Lake Update
    - **Pump Maintenance Log**
    - **Lake/River Tracking Report**
  - B. Water Quality Testing, Stacie Kelsey, WFW
    - **Letter of Thanks to WSDOT**
  - C. Goals & Priorities
    - Milfoil Eradication
      - Carp
      - Chemicals
    - Grant Opportunities
      - DOE Water Quality Grant - Centennial Funding 2015
    - Pollution Control
      - Horseshoe Lake Trail Project Update**
- IV. New Business
- V. Other
- VI. Adjourn - Next Meeting June 12, 2014 at 5:00 P.M.

**CITY OF WOODLAND**  
**HORSESHOE LAKE COMMITTEE MINUTES**  
**MARCH 6, 2014**

The regular meeting of the Horseshoe Lake Management Committee was held on the above date, at the Woodland City Hall, 100 Davidson Avenue Street, Woodland, WA 98674.

Chairman Tom Golik called the meeting to order at approximately 5:05 p.m. Roll call found the following:

**COMMITTEE MEMBERS:**

Tom Golik, Chairman  
Walt Church  
Mike Curry  
Bill Dunlap  
Terry Jones (Absent)  
Francis Patnode (Absent)  
Pat Rychel (Absent)  
Neil Van Horn

**MAYOR/COUNCIL/OTHER:**

Scott Perry, Councilmember

**STAFF:**

Jody Bartkowski, Engineering Technician  
Bart Stepp, Public Works Director

**MINUTES**

The February 13, 2014 minutes were approved as presented.

**CONTINUED BUSINESS**

**A. Pump and Lake Update.** Discussion ensued regarding the most recent pump log, gauge photos, pump capacity, average pumping times, the need to keep the Lake full, river levels, tide fluctuations, and the effect of recent heavy rain.

Further discussion ensued regarding the parties responsible for maintaining the river outlet, the Lake outlet structure, the pump screens, and involvement by the Diking District and Corp of Engineers.

**B. Water Quality & Sampling.** Stacie Kelsey, Washington State Department of Fish and Wildlife (WDFW) asked questions regarding the 2014 budget and discussed her work schedule and restrictions for the next few months. Open discussion was held regarding use of WDFW's boat and hydro lab, back-up assistance, the type of tests being done in 2014, the desire to test on the first Wednesday of each month, and setting gill nets for Coho salmon counting.

**C. Goals and Priorities.** The following items were discussed:

**Weed (Milfoil) Eradication.** Stacie Kelsey updated the Committee on the Grass Carp Derby at Silver Lake. Discussion ensued regarding scheduling and the transfer of fish.

**Lake Outlet Structure Repairs.** Stacie Kelsey reported that the structure is on WSDOT's official list of project needing repair and the next step of submitting the project for repairs.

**Grant Opportunities.** Staff reported that the City is not eligible to apply for

Recreation and Conservation Office (RCO) grants this cycle. Discussion ensued regarding a pending update of the Park and Recreation element of the Comprehensive Plan, a complete Comprehensive Plan update, and status of the joint Horseshoe and Silver Lakes Centennial Grant.

**Pollution Control.** Bart Stepp explained the new Horseshoe Lake Park Trail project and gave a timeline for construction. Stacie Kelsey discussed possible WDFW funding to assist with the addition of a fishing area. Discussion was held regarding matching funds, ADA design, slope requirements in the right-of-way, and unsolved problems with drainage at the boat ramp and storm sewers discharging into the Lake.

**NEW BUSINESS**

None

**OTHER**

- Another water source? Discussion ensued regarding the possibility of an additional water source, pump limitations, increasing water depth at the pump, requirements for screen upgrades due to smelt or smolt larvae, and having WSDOT remove debris near the pump.
- Thanks to Fish and Wildlife. Discussion was held regarding writing a letter of appreciation and thanks to the WDFW for their continued support and Stacie Kelsey's participation.
- Meeting relocation. Discussion ensued regarding the meeting location change being permanent.

*Walt Church moved to make 200 East Scott Avenue the official location for Horseshoe Lake Management Committee meetings. Neil Van Horn seconded the motion. Carried unanimously.*

**ADJOURNMENT**

The meeting was adjourned at approximately 6:15 p.m. The next regular meeting will be held Thursday, May 8, 2014, at 5:00 p.m. at the Woodland Police Station - Council Chambers, 200 East Scott Avenue, Woodland WA 98674.

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Tom Golik - Chairman

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Date

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Jody Bartkowski - Secretary

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Date





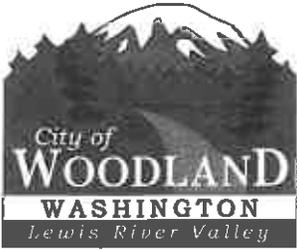


## HORSESHOE LAKE TRACKING

Date	River Level 8:00 AM	Days High Temp	Lake			Valve Status (Turns Open)	Comments
			Level	Temp	Visibility		
1-Mar-14	12.54	49°				Fully Open	
2-Mar-14	12.64	51°				Fully Open	
3-Mar-14	14.35	62°				Fully Open	
4-Mar-14	16.09	59°				Fully Open	
5-Mar-14	16.80	57°				Fully Open	
6-Mar-14	17.38	54°				Fully Open	
7-Mar-14	17.69	60°	Plus 2"	51°	10'	Fully Open	Notice from Pacific Corp - flows ramped up to record levels. WSDOT turned pump OFF as requested by Public Works.
8-Mar-14	18.45	55°				Fully Open	
9-Mar-14	18.47	59°				Fully Open	
10-Mar-14	20.07	56°				Fully Open	Lake pump screens cleaned with WSDOT.
11-Mar-14	16.90	59°				Fully Open	
12-Mar-14	16.50	64°				Fully Open	
13-Mar-14	16.80	59°				Fully Open	
14-Mar-14	16.50	62°				Fully Open	
15-Mar-14	15.15	64°				Fully Open	
16-Mar-14	14.90	56°				Fully Open	
17-Mar-14	14.82	51°				Fully Open	
18-Mar-14	14.84	55°	Down 5"	53°	9	Fully Open	
19-Mar-14	14.61	50°				Fully Open	
20-Mar-14	13.71	50°				Fully Open	
21-Mar-14	13.32	55°				Fully Open	
22-Mar-14	12.61	63°				?	Valve partially closed; date unknown. Pump turned back on between 3/22-24.
23-Mar-14	12.21	62°				?	
24-Mar-14	11.58	71°				?	
25-Mar-14	11.23	57°				?	
26-Mar-14	12.02	50°				?	
27-Mar-14	12.72	58°				?	
28-Mar-14	13.89	55°				?	
29-Mar-14	14.57	55°				?	
30-Mar-14	5.23	54°				?	
31-Mar-14	15.46	62°				?	
1-Apr-14	14.95	52°				?	
2-Apr-14	14.23	57°				Fully Open	Lake level high; lowering for trail project.
3-Apr-14	13.59	57°				Fully Open	
4-Apr-14	13.35	56°				Fully Open	
5-Apr-14	12.67	55°				Fully Open	
6-Apr-14	12.26	64°	Plus 2"			Fully Open	
7-Apr-14	11.63	75°				Fully Open	
8-Apr-14	11.37	69°				Fully Open	
9-Apr-14	11.50	62°				Fully Open	
10-Apr-14	11.19	64°				Fully Open	
11-Apr-14	11.63	67°				Fully Open	
12-Apr-14	11.74	64°				Fully Open	
13-Apr-14	11.68	72°				Fully Open	

## HORSESHOE LAKE TRACKING

Date	River Level 8:00 AM	Days High Temp	Lake			Valve Status (Turns Open)	Comments
			Level	Temp	Visibility		
14-Apr-14	11.74	70°				Fully Open	
15-Apr-14	11.50	60°				Fully Open	
16-Apr-14	11.78	56°				Fully Open	
17-Apr-14	12.53	54°				Fully Open	
18-Apr-14	12.51	60°				Fully Open	
19-Apr-14	12.47	58°				Fully Open	
20-Apr-14	12.32	63°				Fully Open	
21-Apr-14	11.82	64°				Fully Open	
22-Apr-14	11.33	54°				Fully Open	
23-Apr-14	12.13	53°				Fully Open	
24-Apr-14	13.38	60°				Fully Open	
25-Apr-14	14.63	57°				Fully Open	
26-Apr-14	14.45	56°				Fully Open	
27-Apr-14	13.87	55°				Fully Open	
28-Apr-14	13.85	63°	Plus 1/2"	60°	10	Fully Open	
29-Apr-14	13.83	78°				Fully Open	
30-Apr-14	13.81	85°				Fully Open	
1-May-14	13.69	88°				Fully Open	
2-May-14	14.38	75°				Fully Open	
3-May-14	13.53	59°				Fully Open	
4-May-14	12.89	60°	Plus 1"	65°	10	Fully Open	
5-May-14							
6-May-14							
7-May-14							



**P.O. Box 9**  
Woodland, WA. 98674  
www.ci.woodland.wa.us

**100 Davidson Avenue**  
FAX: (360) 225-1201

**Fire**  
(360) 225-7076

**Police**  
(360) 225-6965

**300 East Scott Avenue**  
FAX: (360) 225-7467

**Public Works**  
(360) 225-7999

**230 Davidson Avenue**  
FAX: (360) 225-7336

**Building**  
(360) 225-7299

**Clerk-Treasurer**  
(360) 225-8281

**Planning**  
(360) 225-1048

March 7, 2014

WA State Dept of Fish & Wildlife  
Attn: John Weinheimer  
2108 Grand Boulevard  
Vancouver WA 98661

RE: Horseshoe Lake Efforts

Dear Mr. Weinheimer:

The City of Woodland and the Horseshoe Lake Management Committee (HSLMC) would like to thank the Washington State Department of Fish & Wildlife and Stacie Kelsey for their past, current, and continued help and guidance in our efforts to maintain and improve our Horseshoe Lake.

Stacie has been a guiding light in giving us direction and implementation of many programs which have benefited our efforts and goals.

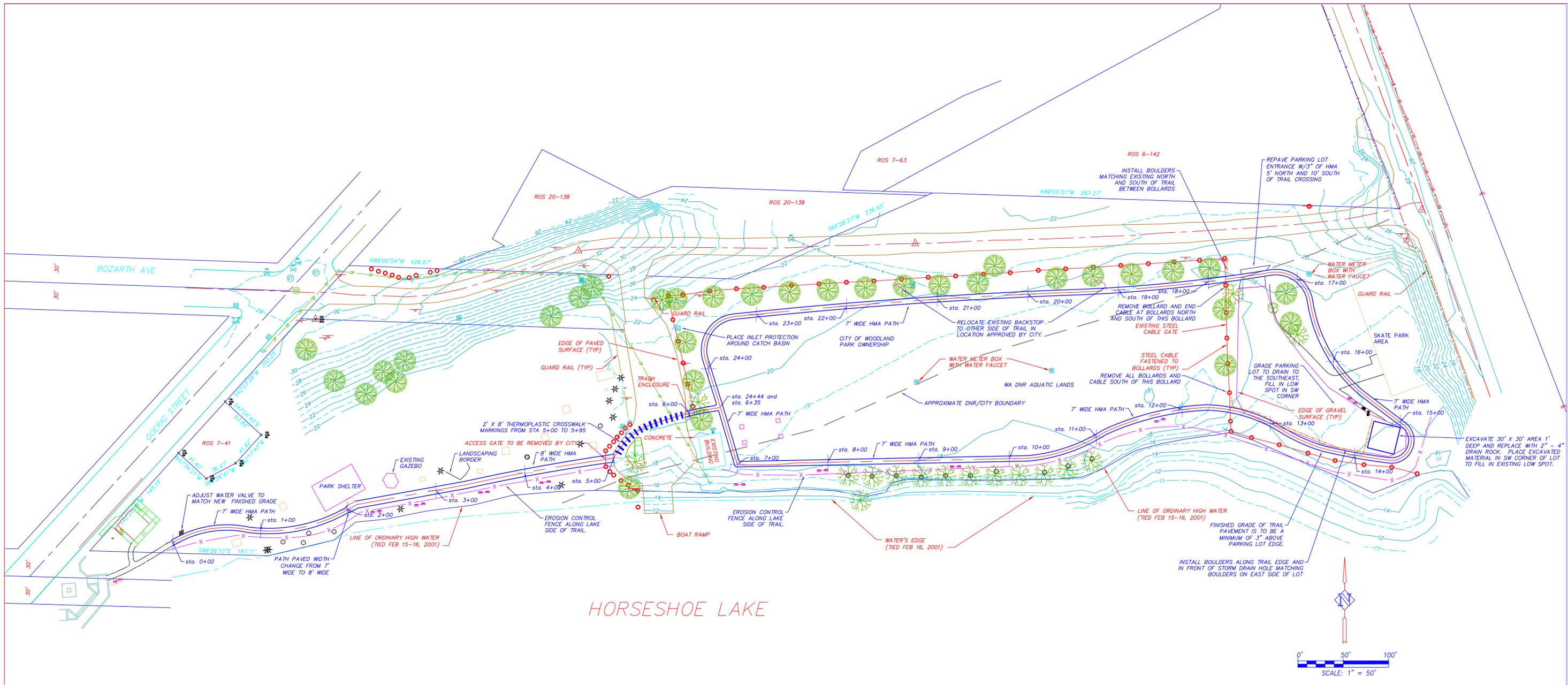
This letter of appreciation is an overdue thank you to Stacie and the rest of your Department for your interest and participation.

Sincerely,

Grover Laseke  
City of Woodland, Mayor

Tom Golik  
HSLMC, Chair

cc: Public Works  
HSLMC

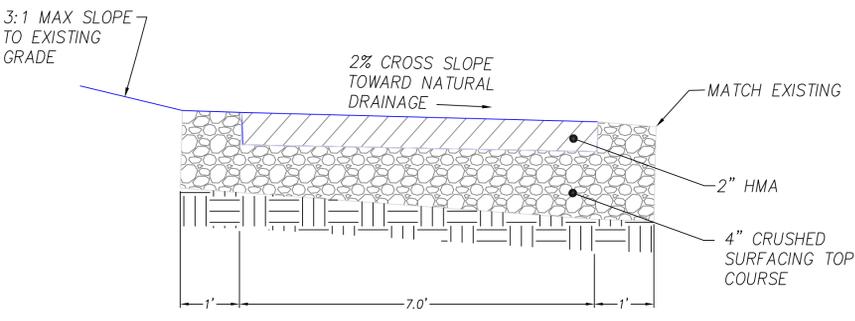


HORSESHOE LAKE

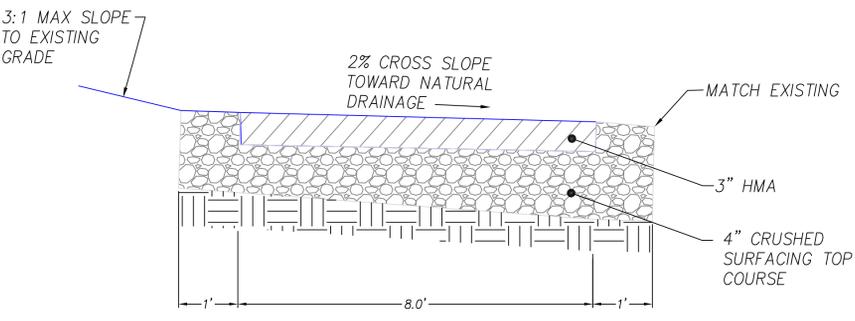
TRAIL CONSTRUCTION NOTES

- 1) CONTRACTOR SHALL STAKE TRAIL ALIGNMENT. OWNER TO APPROVE ALIGNMENT PRIOR TO START OF WORK.
- 2) ASPHALT PAVEMENT SHALL BE 1/2" PG 64-22 HMA AS DEFINED IN THE LATEST STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (APWA/WSDOT).
- 3) CRUSHED ROCK BASE SHALL BE CRUSHED SURFACING BASE COURSE AS DEFINED IN THE LATEST STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (APWA/WSDOT).
- 4) ASPHALT PAVING SHALL BE COMPACTED TO A MINIMUM OF 91% OF MAXIMUM DENSITY PER ASTM D-2041.
- 5) PAVING WILL NOT BE ALLOWED DURING WET OR COLD WEATHER, PER W.S.D.O.T. SPECIFICATIONS.
- 6) ALL PAVEMENT SHALL BE STRAIGHT CUT PRIOR TO PAVING. EXISTING PAVEMENT SHALL BE REMOVED AS NECESSARY TO PROVIDE A SMOOTH TRANSITION FOR BOTH RIDE AND DRAINAGE.
- 7) SOIL AND SUBGRADE CONSTRUCTION REQUIRES INSPECTOR-APPROVED PROOF ROLL AND/OR TESTING PRIOR TO ROCKING AND PRIOR TO PAVING.
- 8) 2' X 8' WHITE THERMOPLASTIC CROSSWALK MARKINGS TO BE PLACED 4' APART BETWEEN STA 5+00 AND 5+95.
- 9) PARKING LOT CROSSING AND APPROACHES FROM APPROXIMATELY STA 17+36 TO STA 17+64 TO HAVE 3" HMA WITH 6" OF BASE ROCK AS CROSS SECTION.

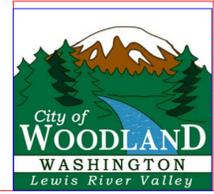
HORSESHOE LAKE PARK TRAIL



A.C. TRAIL SECTION (STA. 0+00 - 2+00 AND 5+95 - 24+40) DETAIL  
N.T.S.



A.C. TRAIL SECTION (STA. 2+00 - 5+00) DETAIL  
N.T.S.



DATE	NO.	DESCRIPTION
R E V I S I O N S		

DESIGNED:	BES
DRAWN:	BES
CHECKED:	BES
DATE:	FEBRUARY 18, 2014

<b>PROJECT QUANTITIES</b>	
TRAIL LENGTH -	2444 FEET
HOT MIX ASPHALT -	240 TONS
CRUSHED ROCK -	1,180 TONS
SILT FENCE -	1350 FEET
DRAIN ROCK -	70 TONS

2013-CDBG-1306  
**WOODLAND HORSESHOE LAKE PARK TRAIL**  
WOODLAND, WASHINGTON

SHEET NO.	<b>C1</b>
JOB NO.	CAP 14-02





12 of 18  
2014.04.25





14 of 18  
2014 04 24





16 of 18  
2014 04 22



17 of 18  
2014 04 21



18 of 18  
2014.04.18