

**CITY OF NAPLES  
PURCHASING DIVISION  
CITY HALL, 735 8<sup>TH</sup> STREET SOUTH  
NAPLES, FLORIDA 34102  
PH: 239-213-7100 FX: 239-213-7105**

**ADDENDUM NUMBER 1**

NOTIFICATION DATE:	BID TITLE:	BID NUMBER:	BID OPENING DATE & TIME:
04/09/14	Replacement of Pump Station 6	14-033	04/21/14 2:00PM

**THE FOLLOWING INFORMATION IS HEREBY INCORPORATED INTO,  
AND MADE AN OFFICIAL PART OF THE ABOVE REFERENCED BID.**

The following clarifications are issued as an addendum identifying the following changes for the referenced solicitation:

**Two clarifications are being made to the original bid document:**

- Find attached a soil boring log taken at the site of the proposed pump station, EXHIBIT A.
- All Brick pavers will use a 6" thick, Class I, 3000 psi, fiber mesh reinforced base.

The below EXHIBITS include additional information, with EXHIBIT B - REVISED COST SCHEDULE - REPLACING the original bid document schedule on pages 16, 17, and 18 in its entirety.

**Below are the questions and answers that were submitted.**

- What is the head pressure on the force main at the existing PS?  
**ANSWER: See the attached table in EXHIBIT C which depicts four days of pressure readings (in psi) at PS. Additionally attached in EXHIBIT D is the pump curve for existing pumps at PS 6 (C3127; Imp 483).**
- Is this Invitation to Bid for ITB 14-033 Replacement of Pump Station 6 going out to Site Contractors as well as General Contractors?  
**ANSWER: See the Invitation to Bid, specifically item 47.**

**IMPORTANT MESSAGE**

**PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID COVER SHEET.**

- Can an allowance be added to the bid for the FPL electrical service.  
**ANSWER: Yes, see the attached revised Cost Schedule; EXHIBIT B.**
- Can a column for Unit Cost be added to the Cost Schedule?  
**ANSWER: Yes, see the attached revised Cost Schedule; EXHIBIT B.**
- What material are the water mains in the vicinity of PS 6?  
**ANSWER: Both the 12" water main and 6" water mains are AC.**
- How will the relocation of the existing 6" AC water main be accomplished?  
**ANSWER: The 6-inch AC water main will need to be temporarily removed during construction and replaced after the installation of the new wet well. A line item has been added to the cost schedule for the work necessary to cut, cap, and restrain the 6" existing AC water main west of the proposed wet well and the installation of a new 6" C900 PVC water main and 6" GV after the new wet well is constructed.**

**EXHIBIT A - SOIL BORING LOG  
EXHIBIT B - REVISED COST SCHEDULE  
EXHIBIT C – PRESSURE TABLE  
EXHIBIT D - PUMP CURVE FOR EXISTING PUMPS  
EXHIBIT E - PRE-BID ATTENDEES LIST**

**IMPORTANT MESSAGE**

**PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID COVER SHEET.**



Depth (feet)	Material Description				Remarks	Elev. (feet)	Groundwater	Unified	AASHTO	Symbol	N B/F	N (blows per foot)					Laboratory Test Results				
	Strength	Primary >50%	Secondary >12%	Tertiary >5%								Color	0	10	20	30	40	50	Water Content, %	Fines Content, %	Organic Content, %

**Primary soil type:** Over 50% of soil by visual estimation or laboratory test

**Secondary soil type:** Between 12% and 50% of soil by visual estimation or laboratory test

**Tertiary soil type:** Between 5% and 12% of soil by visual estimation or laboratory test

**N:** Standard Penetration Resistance. Number of blows to drive a standard split-spoon sampler one foot using a 140 pound hammer dropping 30 inches

**woh:** Split-spoon penetrated soil under weight of 140 pound hammer only.

**wor:** Split-spoon penetrated soil under weight of drill rods only.

Table of Strength Descriptions

N	Sand / Gravel	Silt / Clay	Limestone / Sandstone
0	Very Loose	Very Soft	Very Soft
2	Very Loose	Very Soft	Very Soft
3	Very Loose	Soft	Very Soft
4	Very Loose	Soft	Very Soft
5	Loose	Firm	Very Soft
8	Loose	Firm	Very Soft
9	Loose	Stiff	Very Soft
10	Loose	Stiff	Very Soft
11	Medium Dense	Stiff	Soft
15	Medium Dense	Stiff	Soft
16	Medium Dense	Very Stiff	Soft
30	Medium Dense	Very Stiff	Soft
31	Dense	Hard	Soft
50	Dense	Hard	Soft
51	Very Dense	Hard	Hard
60	Very Dense	Hard	Hard
100	Very Dense	Hard	Very Hard
100+	Very Dense	Hard	Very Hard

Symbol Key

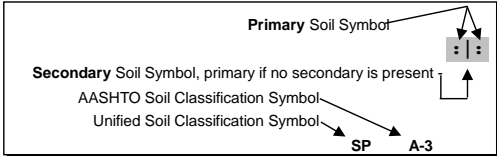
GRAVEL	*
SAND	:
SILT	
CLAY	/
LIMESTONE	#
DEBRIS	D
FILL	F
PEAT	~
ORGANIC	~
LIMEROCK	L
PAVEMENT	P
CONCRETE	C
WATER	W
VOID	V

Laboratory Test Summary

<b>Water Content:</b>	<u>Weight of Water</u> Weight of all Dry Soil
<b>Fines Content:</b>	<u>Weight of Dry Soil Finer than No. 200 Sieve</u> Weight of all Dry Soil
<b>Organic Content:</b>	<u>Weight of Organics Lost by Ignition</u> Weight of all Dry Soil
<b>Liquid Limit:</b>	Moisture content of a soil at the transition between liquid and plastic states. (ASTM D-4318)
<b>Plastic Limit:</b>	Moisture content of a soil at the transition between plastic and semisolid states. (ASTM D-4318)
<b>Plasticity Index:</b>	Liquid Limit - Plastic Limit

**15.0** Depth of soil change. The transition between materials may be gradual. Soil conditions will vary between boring locations.

All descriptions are based on the visual examination of the retrieved soil samples, unless laboratory data is indicated. Therefore, estimates of material types and concentrations should be considered approximate.



Representative Material Description Definitions

<b>SAND</b>	Material that pass a No. 4 and is retained on a No. 200 sieve.
<b>SILT</b>	Low plasticity material that passes a No. 200 sieve.
<b>CLAY</b>	Moderate to high plasticity soil that passes a No. 200 sieve.
<b>LIMESTONE</b>	Natural occurring rock with at least 50% calcium carbonate.
<b>SANDSTONE</b>	Natural occurring rock of hardened (not by calcium carbonate) sand-size particles.
<b>LIMEROCK</b>	Mined or processed limestone used as a fill or pavement base.
<b>ORGANIC</b>	Containing partially decomposed material that can be ignited when dried.

Groundwater Symbols

<b>TOB</b>	Initial groundwater level at time of boring
<b>GWL</b>	Groundwater level measured a day or more after drilling
<b>LOSS</b>	Drill fluid circulation loss

**Forge Engineering, Inc.**  
Naples, Florida

## Key To Boring Log Classification

## EXHIBIT B - REVISED COST SCHEDULE

### City of Naples Pump Station 6

#### Bid Tabulation

Bid Date:

Item	Description	Quantity	Unit	Unit Price	Total
1	Contractor mobilization, demobilization, bonding, insurance	1	LS		
2	Pre-construction Video and Post-construction Video	1	LS		
3	Temporary Bypass Pumping System	1	LS		
4	Maintenance of Traffic	1	LS		
5	Demolition and disposal of drywell and vault piping, antenna, electrical, etc. Cut off chimney, breach bottom of station shell and backfill, restore natural grade.	1	LS		
6	Maintain record drawings / survey	1	LS		
7	8" PVC gravity sewer main	90	LF		
8	10" PVC gravity sewer main	94	LF		
9	6" PVC SDR14 force main	120	LF		
10	6x12 hot tap	1	EA		
11	Concrete manhole	1	EA		
12	Convert exist wetwell to sanitary manhole	1	LS		
13	Wetwell piping, above ground piping, fittings, adaptors, plug & check valves	1	LS		
14	Sitework - fill, grading, limerock, bollards, etc.	1	LS		
15	Restoration including sodding, roadway replacement, curbs and any other item disturbed by this construction not otherwise listed herein.	1	LS		
16	Silt fence/erosion control	1	LS		
17	New Electric Service, FPL coordination, fees, etc.	1	Allowance		\$ 6,000
18	Access Driveway	1	Allowance		\$ 5,000
19	New concrete wetwell and appurtenant equipment not being supplied by City	1	LS		
20	Water Main Relocation	1	LS		
21					
Total Bid					\$

#### Measurement and Payment for above Items:

- Item 1      Paid for on a lump sum basis including all mobilization costs. If for unforeseen circumstances it is required for the contractor to de-mobilize completely or in part, remobilization will be paid for as a percentage of this amount.
- Item 2      Pre-construction video of the project and surrounding private property shall be taken a maximum of 48 hours prior to construction commencement. Pre construction video will be paid for at 50% of this fee. Post construction video will be taken at the owners acceptance of final completion. DVD's of each video will be supplied to owner.

- Item 3 Contractor shall provide for 100% bypass pumping capability of the station while under construction until such time as the new pump station has been completed and in service. This item will be paid for on a lump sum basis based on the pro rated time the temporary system is in service.
- Item 4 Payment for maintenance of traffic in accordance with the City Maintenance of Traffic Policy will be made for at the Contract lump sum price.
- Item 5 Demolition and disposal will be paid for on a percent complete basis. Consult with City personnel to determine if the City will retain possession of any of the material to be removed.
- Item 6 Contractor is responsible to retain a licensed surveyor to layout the work and to prepare certified record drawings. Engineer of record will be supplied with an AutoCAD version of the survey information.
- Item 7,8,9 Furnish and Install Utility Pipelines: Payment for furnishing and installing utility pipelines (various sizes and types) will be made at the Contract unit price per lineal foot for the pipe in place. This item includes clearing and disposal of trees and bushes, all necessary fittings, pipe coatings and linings, connections to existing mains, labor, equipment and materials for the furnishing and laying of the pipe, signs, maintenance of traffic, dewatering, compaction, pipe bedding, backfilling, sheeting, restrained joint piping, detectable tape, clamps, harnessing, plugs and caps, adapters, excavation of all material encountered, including rock, backfill, replacement of grass, sod, clearing and grubbing, landscaping, pavement, driveways, sidewalks, mailboxes, culverts, storm sewers, and other surface materials not specifically designated in the Bid, coordination with other contractors, stubs and valves for future connections to existing pipes, cleanup, disinfection and sterilization, temporary facilities for testing and tests. Measure pipe to the nearest foot along the centerline including the lengths of manholes, valves and fittings. Measure lineal footage horizontally. Measure cuts from proposed grade to the invert elevation of the pipe. Pipe installed within casing pipe is included in this item.
- Item 10 Furnish and Install Tapping Sleeves and Valves: Payment for furnishing and installing tapping sleeves and valves will be made at the appropriate Contract unit price per tapping sleeve and valve acceptably installed. This item includes all piping, making pipe connections, tapping sleeve, valve and valve box, restrained joints, and all other work for a complete installation.
- Item 11 Furnish and Install Standard Precast Concrete Sanitary Sewer Manholes: Payment for furnishing and installing standard precast concrete sanitary manholes will be made at the unit price per manhole acceptably installed. This item includes all excavation, backfilling, compacted gravel or crushed stone bedding, sheeting, shoring, dewatering, concrete work and reinforcing, protection of adjacent facilities, manhole frames and covers, coatings and linings, manhole joints, bottom channels and sanitary sewer connections. Conform all manholes to the City of Naples Details. This item does not include outside drop manholes or standard precast shallow manholes. Measure cuts from proposed grade to the invert elevation of the sewer.

- Item 12 Conversion of the existing wetwell will be paid for on a percent complete basis. This element of the project is essential and will not be paid for on any basis other than 100% complete.
- Item 13 Wetwell piping and appurtenant facilities will be paid for on a percent complete based on installed quantities.
- Item 14 This item will be paid for on a percent complete basis.
- Item 15 Restoration will be paid for on a complete basis only. No partial payments will be made on this item.
- Item 16 Silt fence and erosion control must be maintained throughout the life of the project until all disturbed surfaces are stabilized. Payments will be made on a percent complete basis.
- Item 17 An allowance is given for this work item. Contractor is responsible for coordination, ordering, and placement of the new FPL electric service. Payment of FPL fees is also included.
- Item 18 An allowance is given for this work item. The access drive will be grass pavers, gravel, concrete, asphalt or a combination of the above. The material for this element will be determined by City forces during construction at which time a unit cost per square yard installed will be requested.
- Item 19 Furnish and Install Pump Station: Payment for the furnishing and installing the pump station will be made for at the Contract lump sum price for the pump station acceptably installed. This item includes pumps, wet well structure, valve vault structure, fence, stainless steel hardware, aluminum wet well cover, aluminum valve vault cover, coatings, valves, pipe, fittings, water service, panel, electrical hardware, electrical connection, electrical controls, telemetry, driveway, culvert, and all necessary materials and labor to complete the pump station in accordance with the project plans. Also included is the cost to connect electrical power to the pump station. Schedule with Florida Power and Light to place the pump station into service. The above is notwithstanding that material to be supplied by the City.
- Item 20 The 6-inch AC water main will need to be temporarily remove during construction and replaced after the installation of the new wet well. The items includes the cutting, capping, and restraining of the 6" existing water main west of the proposed wet well and the installation of a new 6" C900 PVC water main and 6" GV after the new wet well is constructed. This item includes furnishing and installing all material necessary to complete the relocation.

**EXHIBIT C - PRESSURE TABLE**

**Lift Station # 6**

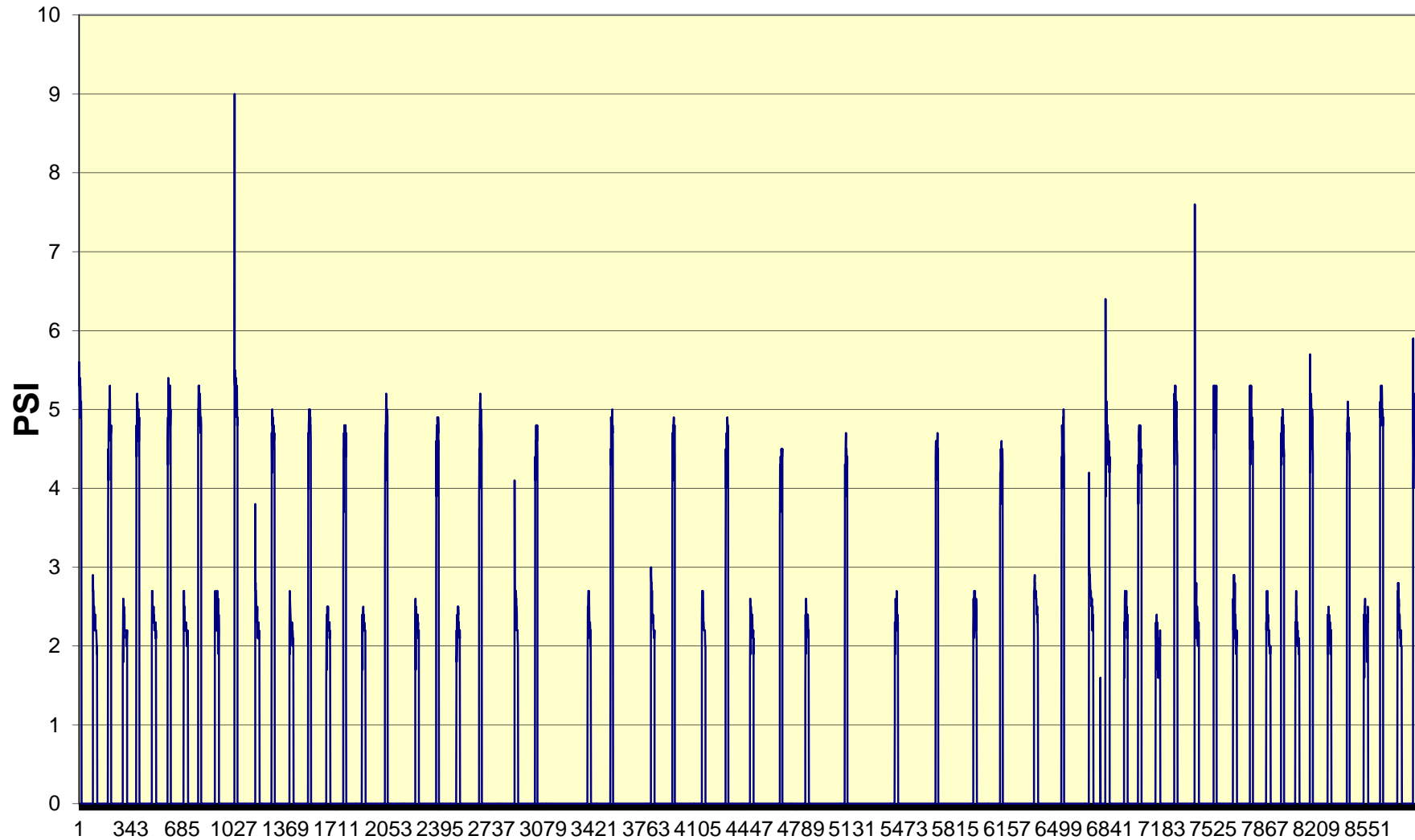
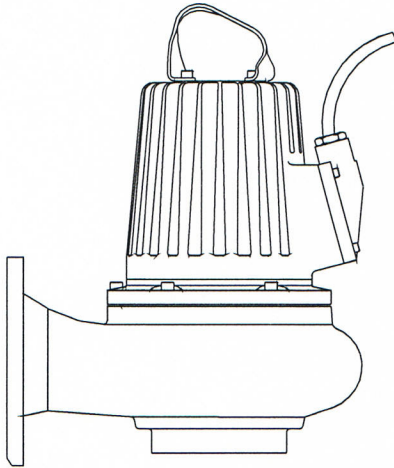




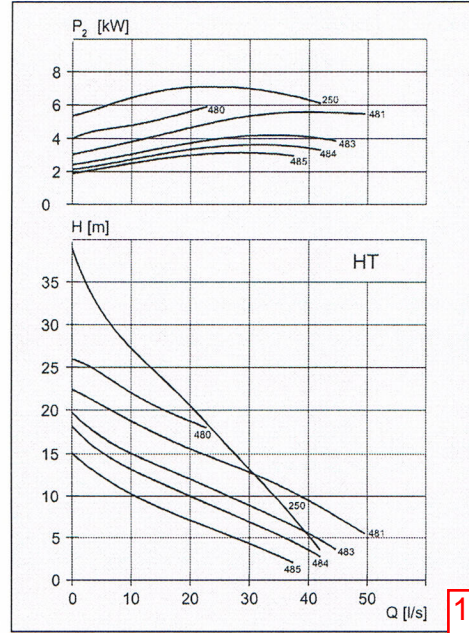
EXHIBIT D - PUMP CURVE FOR EXISTING PUMPS

C 3127



Weight, kg	CP	CT/CZ	CS
HT	136	156	142
SH	136	-	142

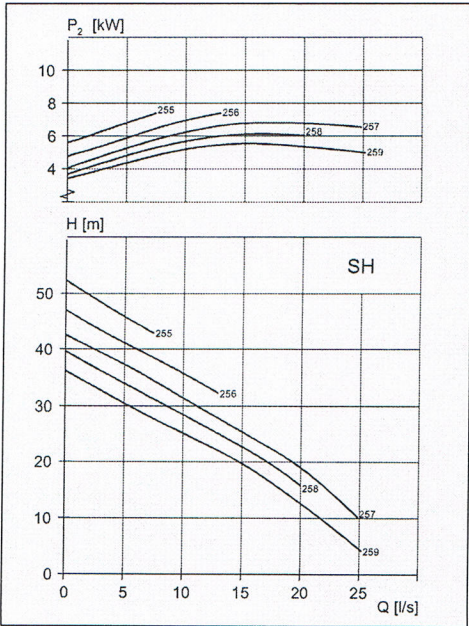
CP/CS/CT/CZ



483  
IMPELLER

1 l/s = 13.62 gpm

CP/CS



Impeller code	No. of vanes	Outlet dia mm CP vers.	Through-let, mm	Motor rating kW P <sub>1</sub> P <sub>2</sub>	rpm	Available versions
• 250	1	80	∅ 58	8.7 7.4	2800	CP/CS
W• 480*	1	100	∅ 76	7.1 5.9	1445	CP/CS
W• 481*	1	100	∅ 76	7.1 5.9	1445	CP/CS
W• 483*	1	100	∅ 76	7.1 5.9	1445	CP/CS
• 483*	1	100	∅ 76	5.7 4.7	1445	CP/CS
W• 484*	1	100	∅ 76	7.1 5.9	1445	CP/CS
• 484*	1	100	∅ 76	5.7 4.7	1445	CP/CS
W• 485*	1	100	∅ 76	7.1 5.9	1445	CP/CS
• 485*	1	100	∅ 76	5.7 4.7	1445	CP/CS
• 483*	1	100	∅ 76	5.6 4.7	1460	CT/CZ
• 484*	1	100	∅ 76	5.6 4.7	1460	CT/CZ
• 484*	1	100	∅ 76	4.8 4.0	1460	CT/CZ
• 485*	1	100	∅ 76	5.6 4.7	1460	CT/CZ
• 485*	1	100	∅ 76	4.8 4.0	1460	CT/CZ

\* Can be equipped with flush valve. \* NEVA/CLOG

Impeller code	No. of vanes	Outlet dia mm CP vers.	Through-let, mm	Motor rating kW P <sub>1</sub> P <sub>2</sub>	rpm	Available versions
• 255	1	80	40x40	8.7 7.4	2800	CP/CS
• 256	1	80	40x40	8.7 7.4	2800	CP/CS
• 257	1	80	40x40	8.7 7.4	2800	CP/CS
• 258	1	80	40x40	8.7 7.4	2800	CP/CS
• 259	1	80	40x40	8.7 7.4	2800	CP/CS

**EXHIBIT E - PRE-BID ATTENDEES LIST**

**City of Naples  
14-033 Replacement of Pump Station 6  
PRE-BID CONFERENCE  
April 3, 2014 10:00 AM Local Time**

Page 1 of 4

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**City of Naples**  
**14-033 Replacement of Pump Station 6**  
**PRE-BID CONFERENCE**  
**April 3, 2014 10:00 AM Local Time**

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