

NEOH Construction Project
Bidder's Questions & Responses Set #1

Date/Time	Question/Issue	Response
Mon 4/24/2006 6:47 PM	Section 01400-1.3.B.6 states that the Contractor shall take, cure and transport the cylinders to the lab for testing. Section 03300-1.4.C states that the lab will do this. Similar conflict between 01400-1.2.A.1 (Owner selects lab) and 02200-1.4A (Contractor selects lab). We would prefer that the Owner selects and pays for the lab.	<p>1) Section 03300-1.4.B & C: Change "Testing firm" to read "Contractor".</p> <p>2) Section 01400-1.2.A: Change to read</p> <p><i>"A. Testing Laboratory and Independent Construction Inspector</i></p> <ol style="list-style-type: none"> <i>1. Owner will select and direct an independent construction inspector to monitor/perform inspection and testing services described in this Section. The independent construction inspector will work solely at the direction of the Engineer for Owner's own Quality Assurance program.</i> <i>2. Contractor will select testing laboratory (Testing Lab) to perform inspection and testing services as described in this Section. The Contractor shall include the cost in the price proposal to provide his own testing services program. An allowance of \$10,000 shall be included in the Contractor's bid to cover any Engineer required testing above those expected of the Contractor. At the end of the project during the final acceptance period, any remaining amount from this allowance will be deducted from the contract amount."</i>
Tue 4/25/2006 9:35 AM	Would you consider a delay in the bid date? One week would be great. Thought I'd float that out for tomorrow's meeting.	Bid date changed to May 22, 2006. See M Shonk Tue 5/2/2006 11:09 AM message.
Wed 4/26/2006 11:35 AM	<p>1) Please provide a spec section for the hollow core plank for Lostine and the sectional rollup doors for the residences and the Vehicle Parking Structure @ Imnaha.</p> <p>2) Please provide a spec/mix design for the 3/4" topping shown on Dwg. S10 for Lostine.</p>	<p>1) TBD</p> <p>2) Additional concrete specification information is attached.</p>
Thu 4/27/2006 9:43 AM Imnaha	<p>1) The Sedimentation Pond is the only structure shown to have waterstop in the CJ's. The other structures appear to have water on both sides of the walls, and is not required (Intake - submerged, Acclimation Pond - pressure reliefs in slab). Please confirm.</p> <p>2) Dwg. S7, Det. 1 - assume all handrail is galvanized.</p>	<p>1) Waterstops shall be in all control joints for the Sedimentation, Acclimation Pond, and intake structures.</p> <p>2) That is correct, unless noted otherwise.</p>
Thu 4/27/2006 3:03 PM	Dwg. S-17 calls for roof sheathing to be 5/8" @ lower roof, 3/4" @ upper roof. S-19 calls for 19/32" @ both areas.	The upper roof sheathing shall be 3/4" (nominal) or 23/32" minimum. The lower roof sheathing shall be 5/8" (nominal) or 19/32" minimum.
Landscape Addendum	Sheet L3	Groundcover <i>Fragaria vesca</i> /Wild Strawberry quantity should read <u>144</u> instead of 323 and Seed Mix Erosion Control quantity should read <u>8,800 S.F.</u> instead of 10,438 S.F.

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CONCRETE MIXES

A. General:

1. All concrete to be ready mixed concrete conforming to ASTM C94.
2. Provide concrete of specified quality capable of being placed without segregation and, when cured, of developing all properties required.
3. All concrete to be normal weight concrete {except where lightweight concrete is indicated on Drawings}.

B. Strength:

1. Provide specified strength and type of concrete for each use in structure(s) as follows:

TYPE	WEIGHT	SPECIFIED STRENGTH*
Concrete fill	Normal weight	3000 psi
Lean concrete	Normal weight	3000 psi
Concrete topping	Normal weight and lightweight	4000 psi
Precast concrete	Normal weight and lightweight	5000 psi
All other general use concrete	Normal weight	4000 psi

* Minimum 28-day compressive strength.

C. Air Entrainment:

1. Provide air entrainment in all concrete resulting in a total air content percent by volume as follows:

MAX AGGREGATE SIZE	TOTAL AIR CONTENT PERCENT
1 IN or 3/4 IN	5 to 7
1/2 IN	5 1/2 to 8

2. Air content to be measured in accordance with ASTM C231, ASTM C173, or ASTM C138.

D. Slump - 4 IN maximum, 1 IN minimum:

1. Measured at point of discharge of the concrete into the concrete construction member.
2. Concrete of lower than minimum slump may be used provided it can be properly placed and consolidated.
3. Pumped concrete:
 - a. Provide additional water at batch plant to allow for slump loss due to pumping.
 - b. Provide only enough additional water so that slump of concrete at discharge end of pump hose does not exceed maximum slump specified above.
4. Determine slump per ASTM C143.

E. Selection of Proportions:

1. General:

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- a. Proportion ingredients to:
 - 1) Produce proper workability, durability, strength, and other required properties.
 - 2) Prevent segregation and collection of excessive free water on surface.
2. Minimum cement contents and maximum water cement ratios for concrete to be as follows:

SPECIFIED STRENGTH	MINIMUM CEMENT, LB/CY			MAXIMUM WATER CEMENT RATIO BY WEIGHT
	MAXIMUM AGGREGATE SIZE			
	1/2 IN	3/4 IN	1 IN	
3000	---	517	517	0.45
4000	611	611	611	0.45
5000	---	686	665	0.40

3. Substitution of fly ash: Maximum of 25 percent by weight of cement at rate of 1 LB fly ash for 1 LB of cement.
 4. Sand cement grout:
 - a. Three parts sand.
 - b. One part Portland cement.
 - c. Entrained air: Six percent plus or minus one percent.
 - d. Sufficient water for required workability.
 - e. Minimum 28-day compressive strength: 3,000 psi.
 5. Pan stair fill:
 - a. Coarse aggregate: 100 percent passing a 1/2 IN sieve.
 - b. Proportions:
 - 1) 1 sack cement.
 - 2) 150 LBS coarse aggregate.
 - 3) 150 LBS fine aggregate (sand).
 - c. Adjust mix to obtain satisfactory finishing.
 6. Normal weight concrete:
 - a. Proportion mixture to provide desired characteristics using one of methods described below:
 - 1) Method 1 (Trial Mix): Per ACI 318, Chapter 5, except as modified herein.
 - a) Air content within range specified above.
 - b) Record and report temperature of trial mixes.
 - c) Proportion trial mixes per ACI 211.1.
 - 2) Method 2 (Field Experience): Per ACI 318, Chapter 5, except as modified herein:
 - a) Field test records must be acceptable to Engineer to use this method.
 - b) Test records shall represent materials, proportions and conditions similar to those specified.
 7. Required average strength to exceed the specified 28-day compressive strength by the amount determined or calculated in accordance with the requirements of Paragraph 5.3 of ACI 318 using the standard deviation of the proposed concrete production facility as described in Paragraph 5.3.1 of ACI 318.
- F. Allowable Shrinkage: 0.048 percent per ASTM C157.