



## ***PROJECT CHANGE APPROVAL***

**Name of Project:** Energy Technology Facility Test Modules

**Project Number:** 2010134 ETTM

**Location of Project:** University of Alaska, Fairbanks Campus

**Date of Request:** August 18, 2010

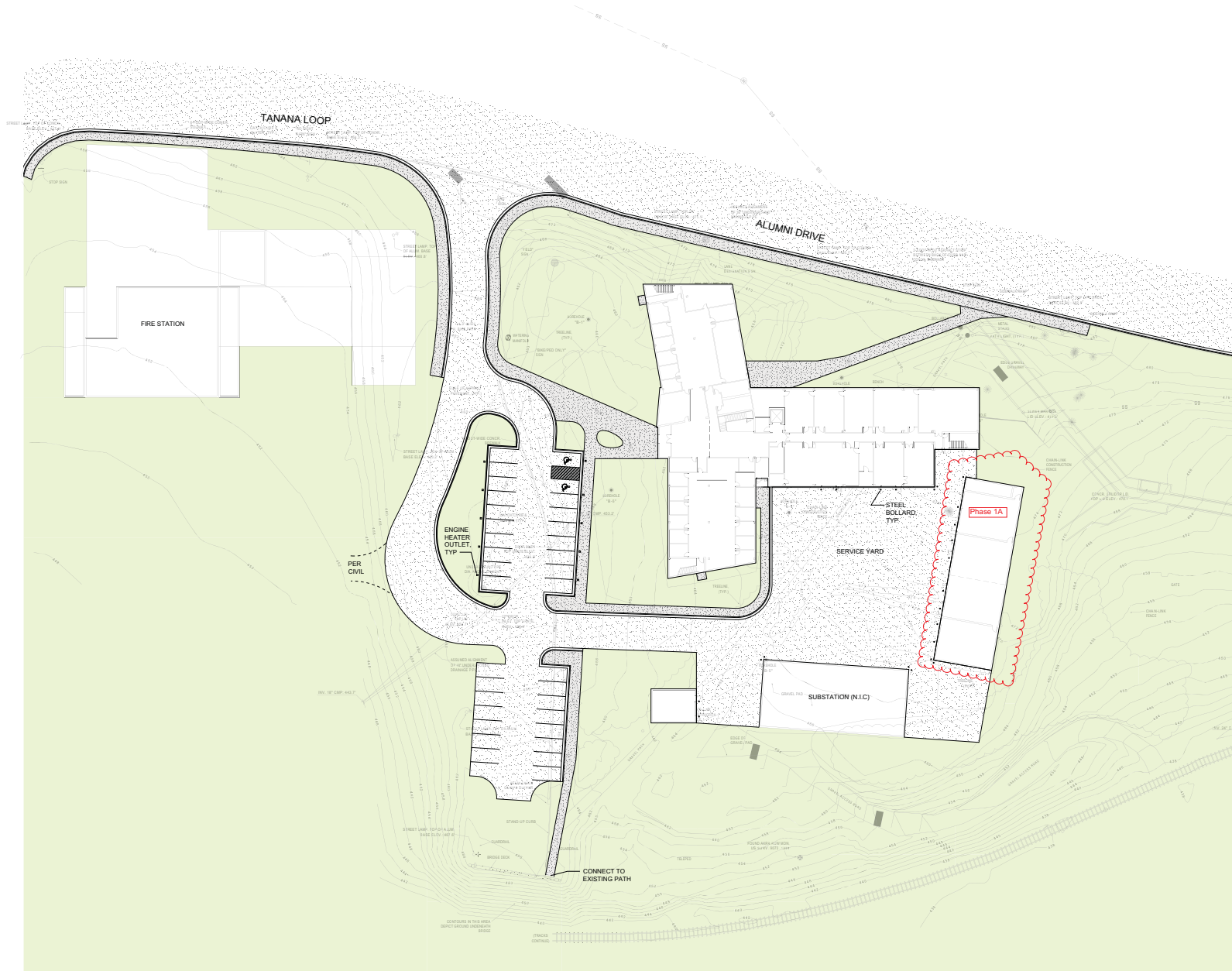
<b>Total Project Cost:</b>	<del>\$3,000,000</del> \$4,000,000
<b>Approval Required:</b>	Change Approval by F & LMC
<b>Prior Approvals/Actions:</b>	Formal Project Approval: April 9, 2009 (ETWP) Schematic Design Approval: February 18, 2010

### **Reference Materials**

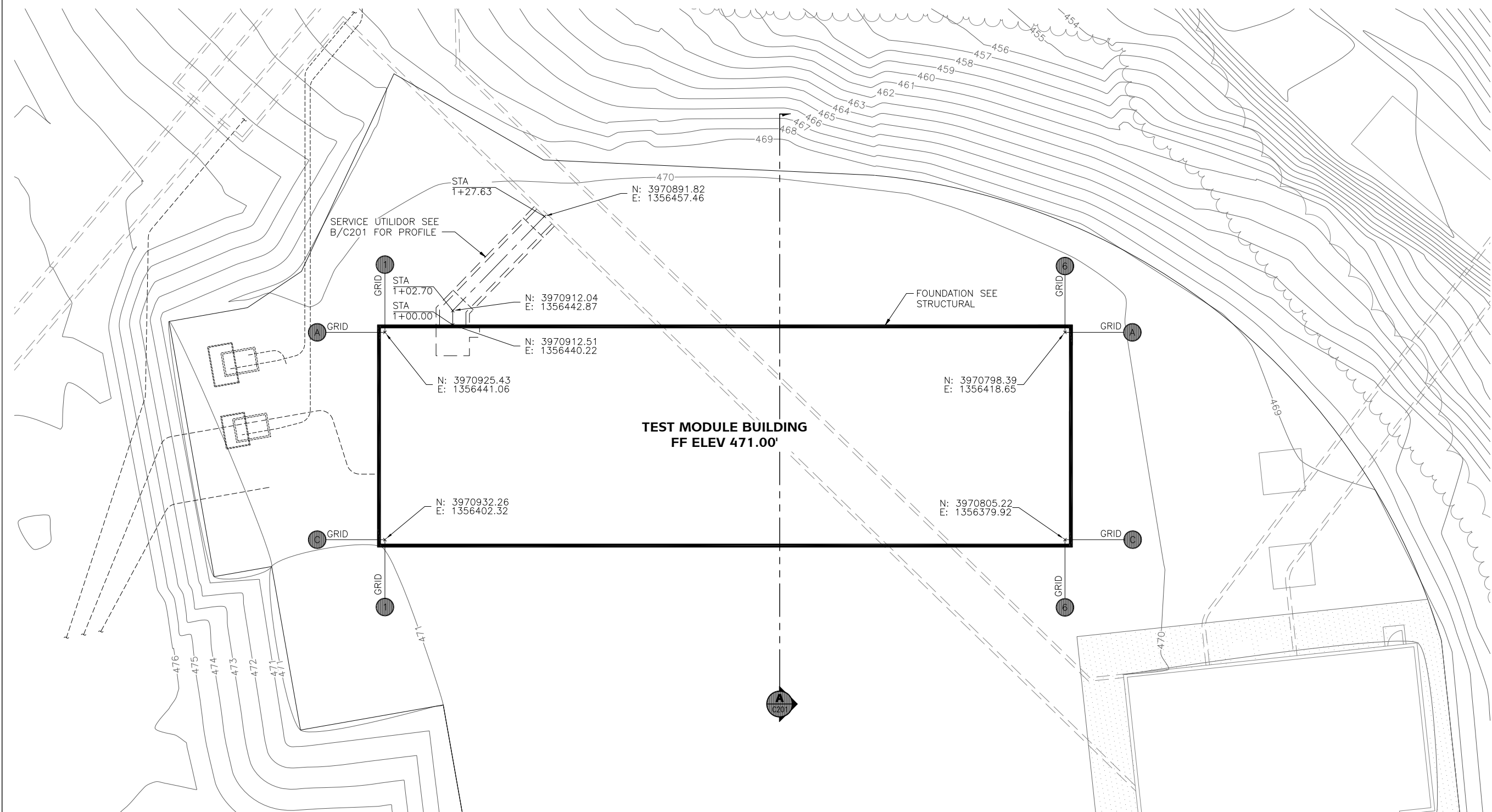
One Page Budget  
Floor Plan Layout

UAF FACILITIES SERVICES DESIGN AND CONSTRUCTION

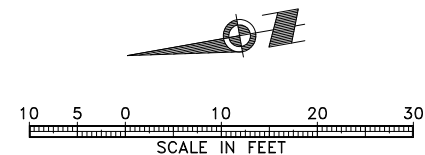
<b>UNIVERSITY OF ALASKA</b>	
Project Name: ETF Test modules	
MAU: UAF	
Building: 0	Date: August 18, 2010
Campus: UAF	Prepared By: JLC
Project #: 2010134 ETTM	Account No.: 0
Total GSF Affected by Project: 5400	
<b>PROJECT BUDGET</b>	<b>FPA Budget</b>
<b>A. Professional Services</b>	
Advance Planning, Program Development	\$254,186
Consultant: Design Services	\$0
Consultant: Construction Phase Services	\$50,000
Consul: Extra Services (List: _____)	\$0
Site Survey	\$0
Soils Testing & Engineering	\$0
Special Inspections	\$0
Plan Review Fees / Permits	\$14,500
Other	\$0
<i>Professional Services Subtotal</i>	<b>\$318,686</b>
<b>B. Construction</b>	
General Construction Contract (s)	\$2,973,436
Other Contractors (List: _____)	\$0
Construction Contingency	\$267,609
<i>Construction Subtotal</i>	<b>\$3,241,045</b>
<i>Construction Cost per GSF</i>	<b>\$600.19</b>
<b>C. Building Completion Activity</b>	
Equipment	\$0
Fixtures	\$0
Furnishings	\$0
Signage not in construction contract	\$0
Move-Out Cost/Temp. Reloc. Costs	\$0
Move-In Costs	\$0
Art	\$0
Other (List: _____)	\$0
OIT Support	\$0
Maintenance/Operation Support	\$0
<i>Building Completion Activity Subtotal</i>	<b>\$0</b>
<b>D. Owner Activities &amp; Administrative Cost</b>	
Project Planning and Staff Support	\$160,188
Project Management	\$275,047
Misc Expenses: Advertising, Printing, Supplies	\$5,000
<i>Owner Activities &amp; Administrative Cost Subtotal</i>	<b>\$440,235</b>
<b>E. Total Project Cost</b>	<b>\$3,999,966</b>
<i>Total Project Cost per GSF</i>	<b>\$740.73</b>
<b>F. Total Appropriation(s)</b>	<b>\$4,000,000</b>



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**BUILDING LOCATION PLAN**



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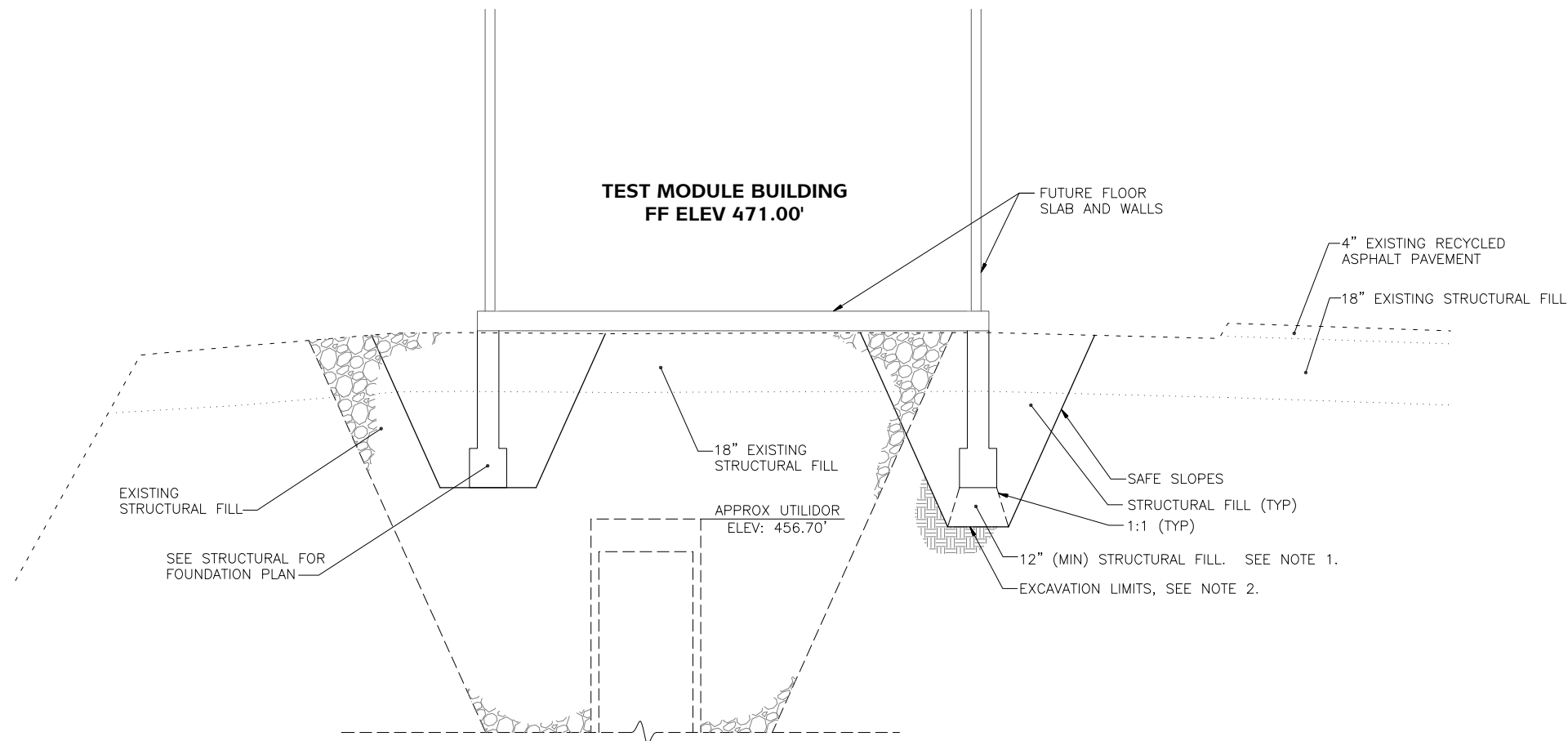
University of Alaska Fairbanks  
**Energy Technology  
Facility Test Modules**  
Fairbanks, Alaska  
PROJECT # 2010134 ETM

Date: 8-10-2010  
Job No: F09111.01  
Drawn By: BD  
Checked By: MS

Revisions	

Drawing Title  
**CIVIL SITE &  
FOUNDATION DESIGN  
FOR TEST MODULES**

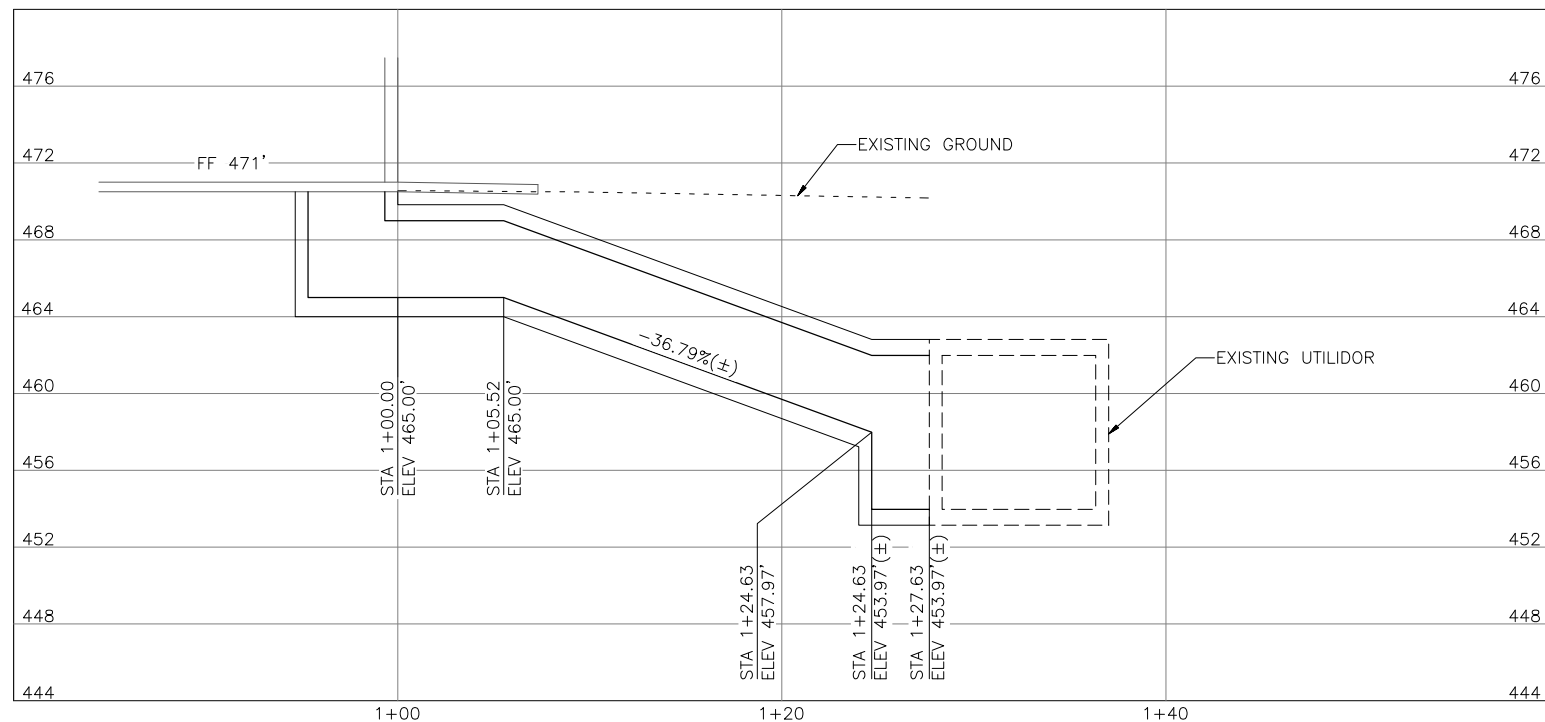
Drawing No.  
**C101**  
Civil, Site, & Foundation  
Design For Test Modules



**A**  
C201

**TYPICAL  
SECTION: TEST MODULE BUILDING**

NOT TO SCALE



**B** **PROFILE: SERVICE UTILIDOR**  
C201 NOT TO SCALE

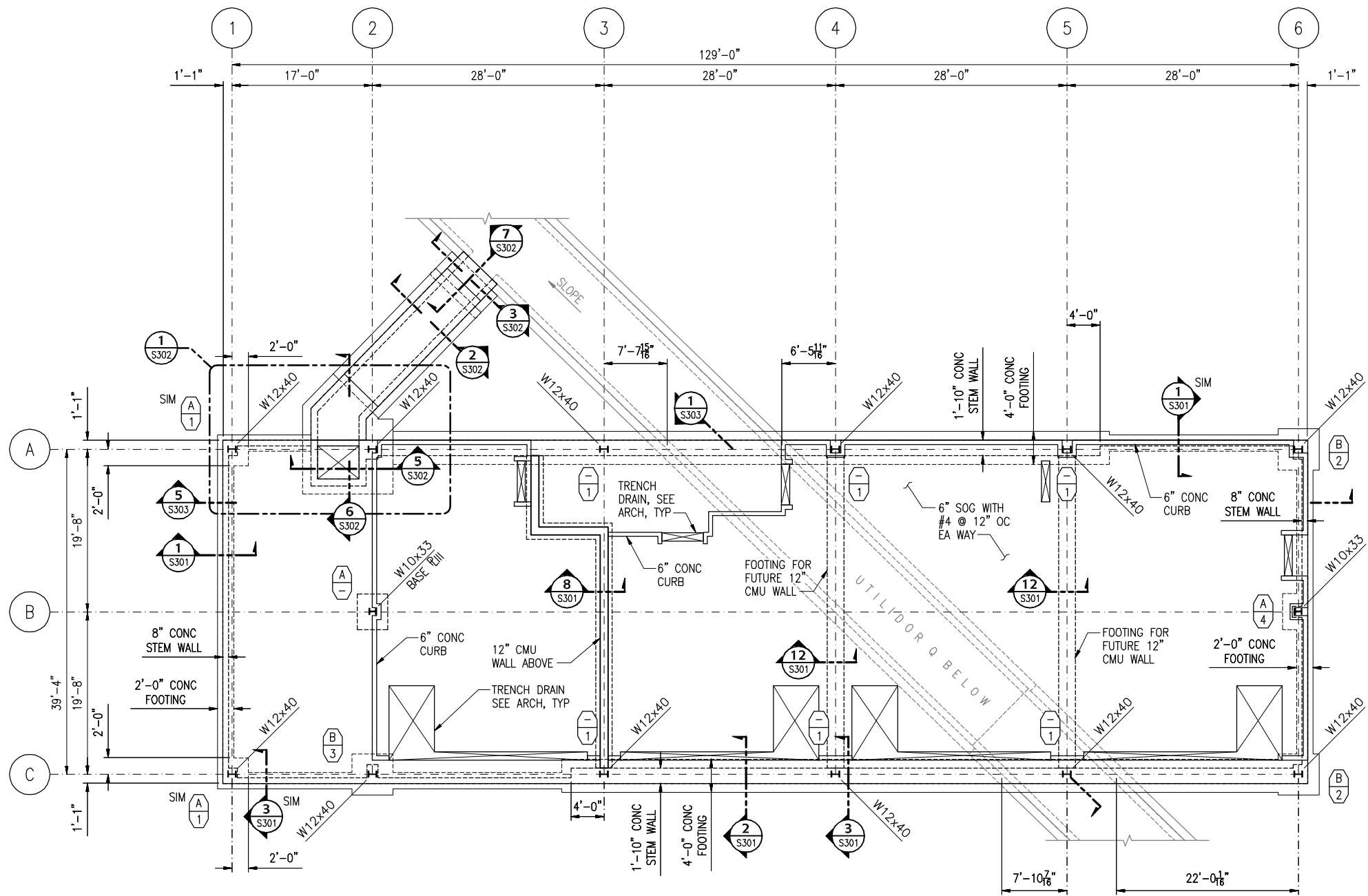
### TYPICAL SECTION NOTES

1. STRUCTURAL FILL SHALL CONSIST OF FREE DRAINING GRAVELLY SAND OR SANDY GRAVEL THAT IS FREE OF COBBLES AND BOULDERS. THE MATERIAL SHALL BE UNFROZEN, FREE OF VEGETABLE MATTER, LUPS, OR EXCESSIVE AMOUNTS OF CLAY AND OTHER OBJECTIONABLE FOREIGN SUBSTANCES. PIT RUN MATERIAL WHICH MEETS THE REQUIREMENTS SPECIFIED MAY BE USED. CONTRACTOR SHALL SCREEN PIT RUN AS REQUIRED TO MEET GRADATION REQUIREMENTS FOR STRUCTURAL FILL. THE AGGREGATE SHALL MEET THE REQUIREMENTS OF THE GRADATION GIVEN BELOW WHEN TESTED IN ACCORDANCE WITH ASTM C136 AND ASTM C117.

SIZE	PERCENT PASSING
3-INCH	100
No. 4 SIEVE	30-60
200 MESH	LESS THAN 5

2. OUTSIDE OF THE GROUND DISTURBED BY THE UTER UTILIDOR, EXCAVATION FOR FOOTINGS SHALL BE A MINIMUM OF 12 INCHES BELOW THE BOTTOM OF FOOTING. WHEN THIS DEPTH HAS BEEN REACHED, NOTIFY THE PROJECT ENGINEER SO THAT AN INSPECTION OF THE SUBGRADE SOILS MAY BE SCHEDULED. ANY ADDITIONAL EXCAVATION THAT MAY BE WARRANTED TO REMOVE SILTS AND FROST SUSCEPTIBLE SOILS WILL BE IDENTIFIED TO THE CONTRACTOR AT THE COMPLETION OF THE INSPECTION.

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### SHEET NOTES

1. THESE DRAWINGS HAVE BEEN PREPARED TO SHOW THE WORK REQUIRED IN ORDER TO CONSTRUCT THE EXTERIOR FOUNDATION AND UTIL/DOR CONNECTOR THIS CONSTRUCTION SEASON (2010). THE WORK IS TO BE ACCOMPLISHED BY KIEWIT AS PART OF THE UTER PROJECT CONTRACT. THE EXTENT OF THE WORK IS TO CONSTRUCT EVERYTHING FROM THE ANCHOR BOLTS DOWN. NO SLABS ARE TO BE POURED AT THIS TIME.

FOOTING TYPE  
SEE SCHEDULE

PEDESTAL TYPE  
SEE SCHEDULE

### PEDESTAL SCHEDULE

MARK	DETAIL	BASE R
1	4/S301	MARK I
2	5/S301	MARK II
3	6/S301	MARK II
4	7/S301	MARK III

### FOOTING SCHEDULE

MARK	SIZE (LxW)	THICKNESS	REINFORCING		REFERENCE
			BOTTOM	TOP	
A*	3'-8"x4'-4"	1'-0"	(5) #5, EA WAY	-	-
B	5'-0"x5'-0"	1'-0"	(6) #5, EA WAY	(6) #5, EA WAY	-

\* AT A 'SIM' USE DIMENSIONS SHOWN ON PLAN AND REINFORCING SHOWN IN FOOTING SCHEDULE.



Stamp

University of Alaska Fairbanks  
**Energy Technology  
Facility Test Modules**  
Fairbanks, Alaska  
PROJECT # 2010134 ETMM

Date: 8-10-2010

Job No: F09111.01

Drawn By: WTH/DJM

Checked By: JUL

Revisions

Drawing Title

STRUCTURAL  
FOUNDATION AND SLAB  
PLAN

Drawing No.

**S201**  
Civil, Site, & Foundation  
Design For Test Modules