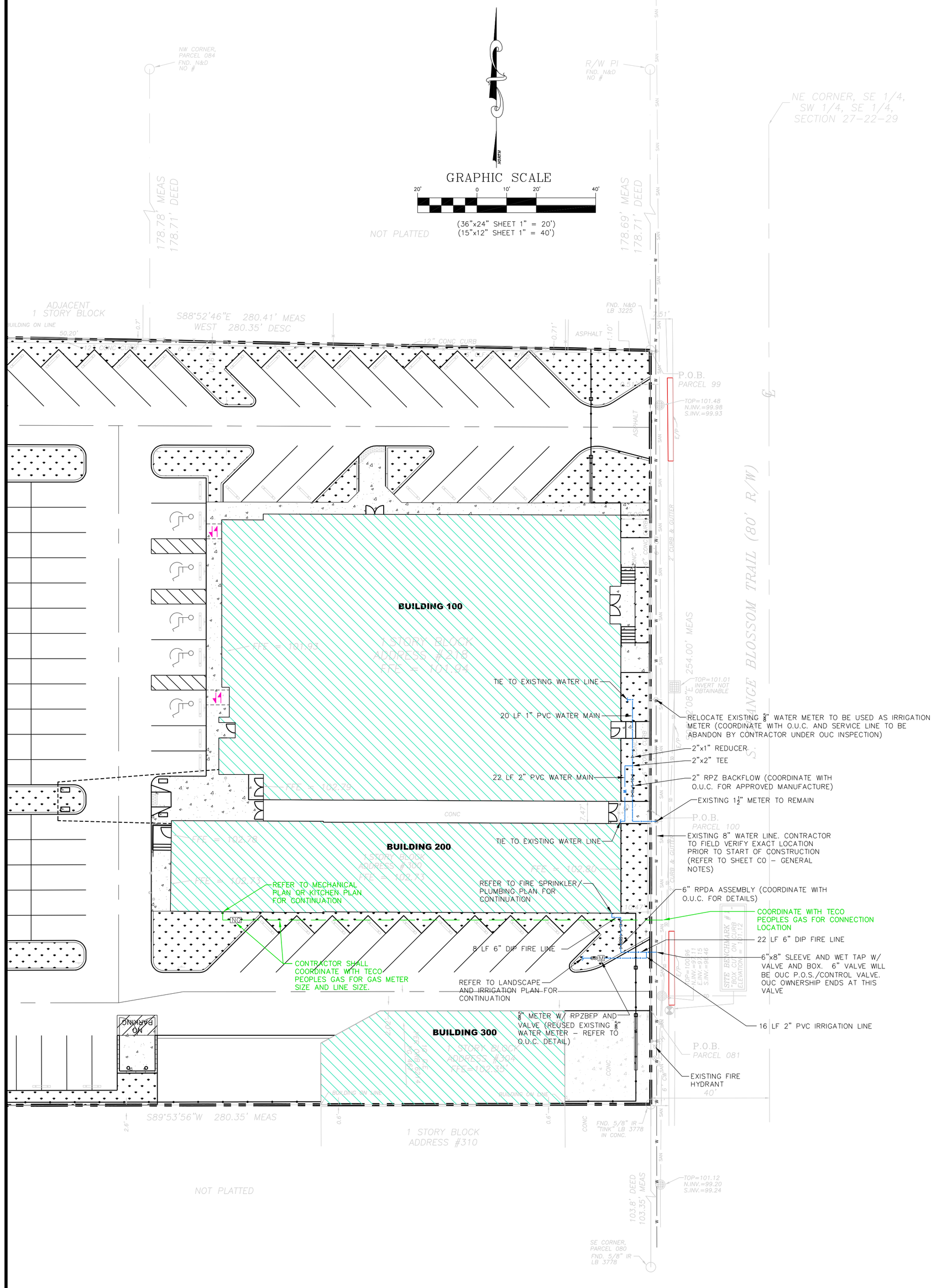


UTILITY NOTES

WATER DEMAND
NO NEW WATER SERVICE IS PROPOSED FOR EXISTING BUILDING RENOVATION. ONLY FIRE PROTECTION AND IRRIGATION SERVICE CONNECTION IS PROPOSED.

WASTEWATER FLOW
NO NEW SANITARY SEWER CONNECTION IS PROPOSED FOR EXISTING BUILDING RENOVATION.

1. ALL ONSITE AND OFFSITE WATER AND WASTEWATER UTILITIES WORK SHALL BE IN ACCORDANCE WITH CITY OF ORLANDO CONSTRUCTION DESIGN STANDARDS MANUAL, ORLANDO UTILITIES COMMISSION (OUC) AND CONFORM TO ALL FEDERAL, STATE AND CITY REGULATIONS.
2. CITY OF ORLANDO IS THE PROVIDER FOR ONSITE WASTEWATER SERVICE AND ORLANDO UTILITIES COMMISSION (OUC) IS THE PROVIDER FOR ONSITE WATER SERVICE.
3. ALL ONSITE UTILITY CONSTRUCTION TO POINT OF SERVICE CONNECTION SHALL BE PERFORMED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED BY THE STATE OF FLORIDA
4. ALL ONSITE UTILITY SERVICES FROM POINT OF SERVICE CONNECTION TO BUILDING AND INCLUDING ALL BUILDING PLUMBING SHALL BE PERFORMED BY A PLUMBER LICENSED BY THE STATE OF FLORIDA.
5. CONTRACTOR SHALL PROVIDE AT A MINIMUM OF ONE (1) VERTICAL TO ONE (1) HORIZONTAL DIG AT ALL TIMES. WHERE DIG IS STEEPER THAN ONE (1) VERTICAL TO ONE (1) HORIZONTAL, A TRENCH BOX SHALL BE USED.
6. REFER TO LANDSCAPE AND IRRIGATION PLAN FOR IRRIGATION POINT OF CONNECTION (POC), CONNECTION SIZE, AND IRRIGATION WATER METER AND RPZBFP.
7. ALL ENGRESS/EGRESS SHALL HAVE PAD LOCK FOR FIRE DEPARTMENT ACCESS. CONTRACTOR SHALL COORDINATE WITH CITY OF ORLANDO FIRE DEPARTMENT FOR REQUIREMENTS.
8. THE CUSTOMER/DEVELOPER SHALL FURNISH EXACT LOCATION, FINISH GRADE AND SURVEY MARKINGS FOR INSTALLATION OF WATER METERS.
9. THE CUSTOMER/DEVELOPER IS RESPONSIBLE FOR THE REQUIRED OUC APPROVED REDUCED PRESSURE ZONE BACKFLOW PREVENTERS. ANY QUESTIONS CONTACT OUC BACKFLOW PREVENTION DEPARTMENT @ 407-649-4428.
10. A 1½" PD METER WILL PROVIDE APPROXIMATELY 100 GPM FOR INTERMITTENT USE, AND APPROXIMATELY 50 GPM MAX CONTINUOUS USE.
11. THE CUSTOMER/DEVELOPER IS RESPONSIBLE FOR THE PRIVATE LINE CONNECTION.
12. PROJECT WILL WILL UTILIZE NATURAL GAS. CONTRACTOR TO COORDINATE WITH TECO PEOPLES GAS FOR EXACT CONNECTION AND NATURAL GAS METER PLACEMENT.
13. REFER TO GENERAL NOTES (SHEET C0) FOR FURTHER UTILITY NOTES.

FIRE FLOW CALCULATION

1- TYPE VB BUILDING CONSTRUCTION (PROVIDED BY HUMBERTO RAMOS, AIA)
2- UNDIVIDED AREA 12,819 SF

NEEDED FIRE FLOW (NFPA 1 EDITION 2003 TABLE H5.1) = 3,000GPM (REQUIRED)

3- FIRE SPRINKLER (NFPA 13) SYSTEM => PER NFPA 1 H.5.2 ALLOWED 50% REDUCTION IN NEEDED FIRE FLOW
=> CALCULATED NEEDED FIRE FLOW OF 1,500 GPM

NUMBER OF REQUIRED FIRE HYDRANTS (NFPA 1 EDITION 2003 TABLE 1.3) = 1 FIRE HYDRANT (W/ MAX. 250FT FROM ONE EXTERIOR DOOR).

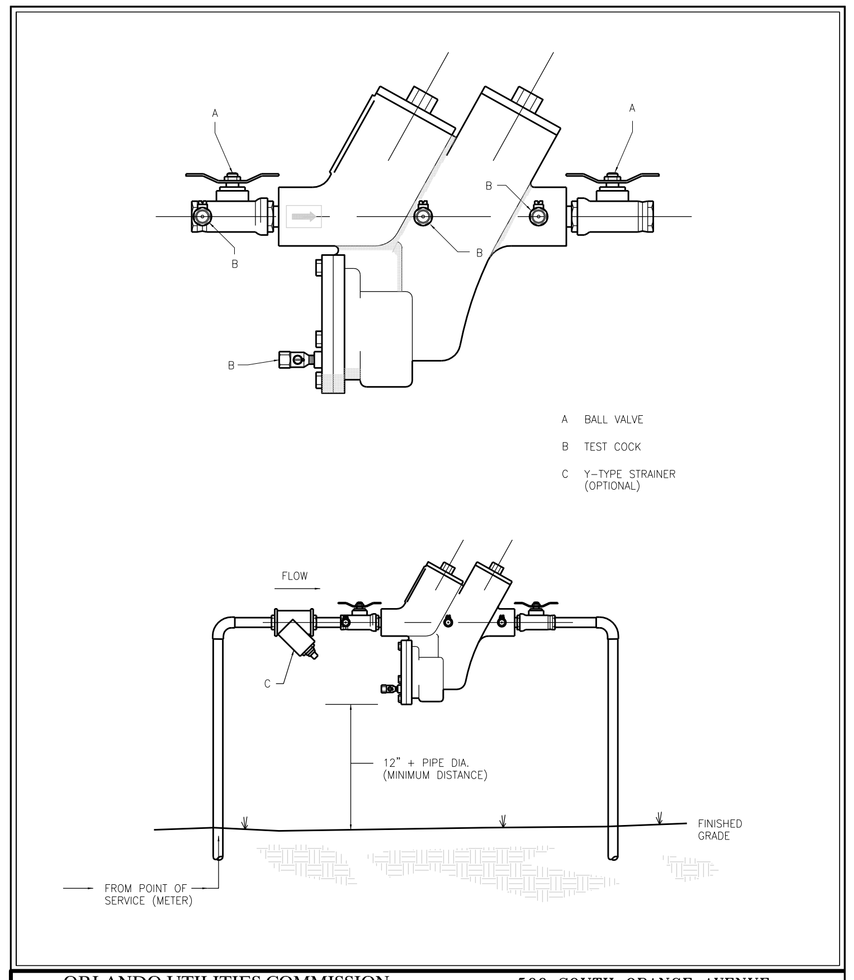
ONE (1) EXISTING FIRE HYDRANT WITHIN 250FT FROM BUILDING. NO NEW FIRE HYDRANT IS PROPOSED.

OUC WATER ENGINEERING NOTES

1. THE DEVELOPER'S CONTRACTOR SHALL ACCOMPLISH ALL WATER MAIN, FIRE HYDRANT AND SERVICE WORK THROUGH THE OUC POINT OF SERVICE/CONTROL VALVE AND WATER METERS. OUC WILL OWN AND OPERATE UP TO AND INCLUDING THE OUC POINT OF SERVICE/CONTROL VALVE AND WATER METERS ONLY. THE REQUIRED WORK SHALL BE PERFORMED PER CURRENT OUC DESIGN GUIDELINES, MATERIAL SPECIFICATION AND WATER DETAIL SHEET UNDER OUC INSPECTION. TO SCHEDULE OUC INSPECTION, CALL (407) 649-4436.
2. THE DEVELOPER/CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING OUC WATER FACILITIES BEFORE COMMENCEMENT OF CONSTRUCTION.
3. CANOPY TREES SHALL BE LOCATED, AT A MINIMUM, 10 FEET FROM OUC MAINS, METERS AND HYDRANTS.
4. A MINIMUM 4' CLEARANCE (INCLUDING LANDSCAPING) MUST BE MAINTAINED AROUND WATER METER ASSEMBLY.
5. FOR WATER WET TAPS, USE ONLY OUC APPROVED TAPPING CONTRACTORS:
   - ACTION INDUSTRIES, INC. (352) 732-6941 OR (800) 216-4464
   - CENTRAL FLORIDA TAPPING AND CONSTRUCTION SERVICES, INC. (407) 834-8271
   - MAC TAPPING, INC. (407) 468-0557
   - RANGELINE TAPPING SERVICES, INC. (800) 346-5971
   - TDW SERVICES, INC. (407) 843-2800
   - T & R TAPPING SERVICE, INC. (407) 339-3685

OUC BACKFLOW PREVENTION REQUIREMENTS

1. OUC BACKFLOW PREVENTION DEPARTMENT (407) 649-4428.
2. BACKFLOW DEVICES WILL BE OWNED AND MAINTAINED BY CUSTOMER.
3. DOMESTIC AND IRRIGATION – THE DEVELOPER/CUSTOMER IS RESPONSIBLE FOR THE REQUIRED REDUCED PRESSURE BACKFLOW PREVENTER.
4. FIRE LINE – THE DEVELOPER/CUSTOMER IS RESPONSIBLE FOR THE REQUIRED REDUCED PRESSURE DETECTOR CHECK ASSEMBLY W/ MONITORING METER FOR BACKFLOW PREVENTION. ANY QUESTIONS CONTACT OUC BACKFLOW PREVENTION DEPARTMENT @ (407) 649-4428.
5. OUC REVIEW ENDS AT THE OUC POINT OF SERVICE CONTROL VALVE AND WATER METERS ONLY. OUC DOES NOT REVIEW, APPROVE OR INSPECT THE PRIVATE SYSTEM THEREFORE THE PRIVATE FIRE SYSTEM AND HYDRANTS WILL REQUIRE APPROVAL BY THE GOVERNING FIRE REVIEW AGENCY.



ORLANDO UTILITIES COMMISSION WATER BUSINESS UNIT			500 SOUTH ORANGE AVENUE ORLANDO, FLORIDA 32801
ENG.: WQL/HIRSCH	DATE: 01-29-98	MAP SEC.: N/A	REDUCED PRESSURE PRINCIPLE
DRAWN: PRIEMER	REVISED: 12-03-98	CAD No.: BACKFLOW/RPP	
JOB No. SP01149822		SCALE: N.T.S.	

REVISIONS

No.	DATE	DESCRIPTION	APP'D BY
1	03-31-09	CITY OF ORLANDO COMM.	QTL
2	05-11-09	ADD OUC NOTES	QTL
3	08-04-09	CITY OF ORLANDO COMM. (BLD2009-03635)	QTL
4	09-18-09	CITY OF ORLANDO BLD2009-00444 COMM.	QTL
5	10-02-09	FDOT UTILITY PERMIT	QTL

FIRST HAITIAN FREE CHURCH OF NAZARENE BY FAITH RENOVATION

UTILITY PLAN

LAM
Civil Engineering, Inc.
2504 E. JACKSON STREET
ORLANDO, FL 32803
OFFICE: 407-228-9540
FAX: 407-228-9541
CERTIFICATE OF AUTHORIZATION No. 27340

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NOT FOR CONSTRUCTION UNLESS SIGNED AND SEALED

QUANG T. LAM, P.E.
FL REGISTRATION No. 62550

DATE

PROJECT No.	2008.999.07
DATE:	11-05-09
DRAWN BY:	LCE
APPROVED BY:	QTL

SHEET C4