

256 A00-1001

1520-1520 Westbrook St, Portland, Maine

Community Life center

Stroudwater Christian church

# SITE PLAN AMENDMENT FOR: STROUDWATER ADVENT CHRISTIAN CHURCH 1520 WESTBROOK STREET - PORTLAND, MAINE

Att. 14

## TABLE OF PLANS

Sheet #1 PROPERTY AND TOPO BY R.P. TITCOMB FALMOUTH ME.  
Sheet #2 SITE PLAN  
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SHEET #7 A-4 ELEVATION VIEWS  
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Sheet #9 EROSION AND SEDIMENT CONTROL DETAIL 1 OF 2  
Sheet #10 EROSION AND SEDIMENT CONTROL DETAIL 2 OF 2

## GENERAL NOTES

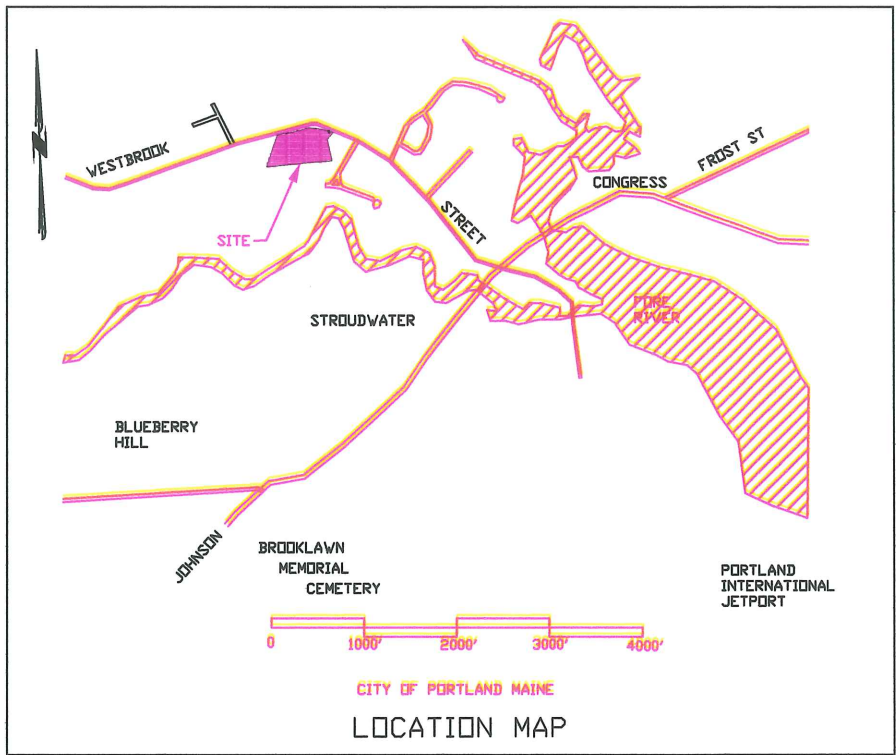
- 1.) BASE MAP AND BOUNDARY SURVEY PREPARED BY R.P.TITCOMB ASSOCIATES OF FALMOUTH MAINE DATED AUGUST 7, 1987 AND STAMPED BY STEPHEN MARTIN PLS # 1262
- 2.) PROPOSED WATER AND SEWER TO THE SITE IS FROM WESTBROOK STREET.
- 3.) UNDERGROUND UTILITIES ARE SHOWN FROM FIELD LOCATION IF POSSIBLE. OTHERS ARE SHOWN FROM RECORD DATA. THEIR EXACT LOCATION MAY DIFFER FROM THAT AS SHOWN AND OTHERS MAY EXIST. DIG SAFE SHOULD BE CONTACTED AND EXACT LOCATIONS VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
- 5.) THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTORS WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESS APPROVAL FROM THE ENGINEER.
- 6.) THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS PROJECT.
- 7.) THE CONTRACTOR SHALL RESTORE DRIVEWAY SUBBASES, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE ENGINEER. ANY DAMAGED TREES, SHRUBS AND OR HEDGES SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- 8.) CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.
- 9.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.
- 10.) THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DISTROYED, AS JUDGED BY THE ENGINEER OR OWNER SHALL BE REPLACED AT THE CONTRACTORS EXPENSE UNDER THE SUPERVISION OF A MAINE STATE LICENSED LAND SURVEYOR.
- 11.) IT IS THE CONTRACTORS RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE WORK WITH ALL CONTRACTS FOR THE SITE.
- 12.) THE CONTRACTOR SHALL BE RESPONSIBLE TO CONDUCT EXPLORATORY TEST PITS AS MAY BE REQUIRED TO DETERMINE UNDERGROUND CONDITIONS.
- 13.) ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH OSHA REGULATIONS FOR CONSTRUCTION.
- 14.) CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK.
- 15.) ALL UTILITY WORK INVOLVING CONNECTION TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE ENGINEER AND THE UTILITY OWNER. NOTIFY THE ENGINEER AND THE UTILITY OWNER 24 HOURS BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEM IS MADE.
- 16.) MAINTAIN FLOW OF ALL EXISTING UTILITIES.
- 17.) ALL NEW MANHOLES AND VALVE BOXES CONSTRUCTED WITHIN PAVED AREAS SHALL HAVE THE TOPS SET FLUSH WITH THE EXISTING PAVEMENT GRADE. IN LANDSCAPED AREAS, ALL FRAMES SHALL BE 0.1 FT ABOVE GRADE.
- 18.) BEFORE CONSTRUCTING LINES TO CONNECT TO EXISTING UTILITIES, VERIFY EXISTING UTILITY INVERTS AND NOTIFY ENGINEER IF ANY VARIATION FROM THE PLANS IS REQUIRED.
- 19.) THE CONTRACTOR IS DIRECTED TO COMPLY WITH PORTLAND WATER DISTRICT STANDARD SPECIFICATIONS AND REQUIREMENTS FOR INSTALLATION OF WATER SERVICES. CONTRACTOR TO NOTIFY ENGINEER AT LEAST 48 HOURS PRIOR TO UNDERTAKING WORK ON WATER FACILITIES.
- 20.) ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 21.) THE CONTRACTOR TO GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE.
- 22.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE THE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS-BUILT PLANS FOR ALL UTILITY SHOWING 3 POINT TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND HIS REPRESENTATIVES BEFORE UTILITIES WILL BE ACCEPTED.

## ZONING NOTES

ZONING NOTES FOR ZONE R-1:  
PORTLAND CODE SECTION 14-68 CONDITIONAL USE  
(B) INSTITUTION  
(3) CHURCH OR PLACE OF WORSHIP  
LOT SIZE 211,822 SQ. FT.  
FRONTAGE = 615.59 FT.  
THIS PROJECT IS NOT LOCATED IN THE HISTORIC DISTRICT.

## LEGEND

- IRON PIN FOUND (1/2" hollow pipe, unless noted)
- IRON PIN TO BE SET (5/8 rebar)
- MONUMENT FOUND
- NF NOW OR FORMERLY OF
- UTILITY POLE
- EDGE OF PAVEMENT
- EXISTING BUILDING
- FENCE LINE
- CATCH BASIN
- ⊗ WATER VALVE
- ⊙ MANHOLE
- ⊙ FIRE HYDRANT
- ⊙ DECIDUOUS TREE
- ⊙ CONIFER TREE
- TREE LINE



FOR REVIEW ONLY NOT FOR CONSTRUCTION JUNE 2002



140a

#### REFERENCES

- 1) State of Maine Department of Transportation Right of Way Map, dated April 1977, D.O.T. File No. 3-255.
- 2) City of Portland Engineering Dept. Right of Way Plans.
- 3) Portland Water District Portland, Maine 42" Concrete Pipe Line Right of Way Plans, dated August 1931, recorded in the Cumberland County Registry of Deeds in Plan Book 20, Page 39.
- 4) Portland Pipe Line Co. Survey of Property of Ruby H. Young, dated October 8, 1941.
- 5) Plan made for Laurence C. Plowman Plan of Riverview Sec. A recorded in Plan Book 45, Page 14.

#### NOTES

- 1) Bearings are based on magnetic north 1977 (see reference #1).
- 2) Elevations are based on the City of Portland Data.

#### AREA

211,882 sf.  
4.86 ac.

#### OWNER OF RECORD

Advent Christian Church of Portland, Maine  
4520/175

#### LEGEND

- IRON PIN FOUND (1/2" hollow pipe, unless noted)
- IRON PIN TO BE SET (5/8" rebar)
- MONUMENT FOUND
- N/F NON OR FORMERLY OF
- UTILITY POLE
- - - EDGE OF PAVEMENT
- ▭ EXISTING BUILDING
- FENCE LINE
- ▭ CATCH BASIN
- ⊙ WATER VALVE
- MANHOLE
- ⊙ FIRE HYDRANT
- ⊙ DECIDUOUS TREE
- ⊙ CONIFER TREE
- TREE LINE

1 INCH = 40 FEET  
0 40 80 120

This survey conforms to category I condition II as defined by the Standards of the Maine State Board of Registration for Land Surveyors dated 1985. Except as noted.

Exceptions:  
(1) Irons and Monuments not labeled  
(2)  
(3)

Stephen J. Martin ALS 1262  
checked by *[Signature]*



— STANDARD BOUNDARY SURVEY —  
**PROPERTY & TOPO PLAN**  
1520 Westbrook Street Portland, Maine

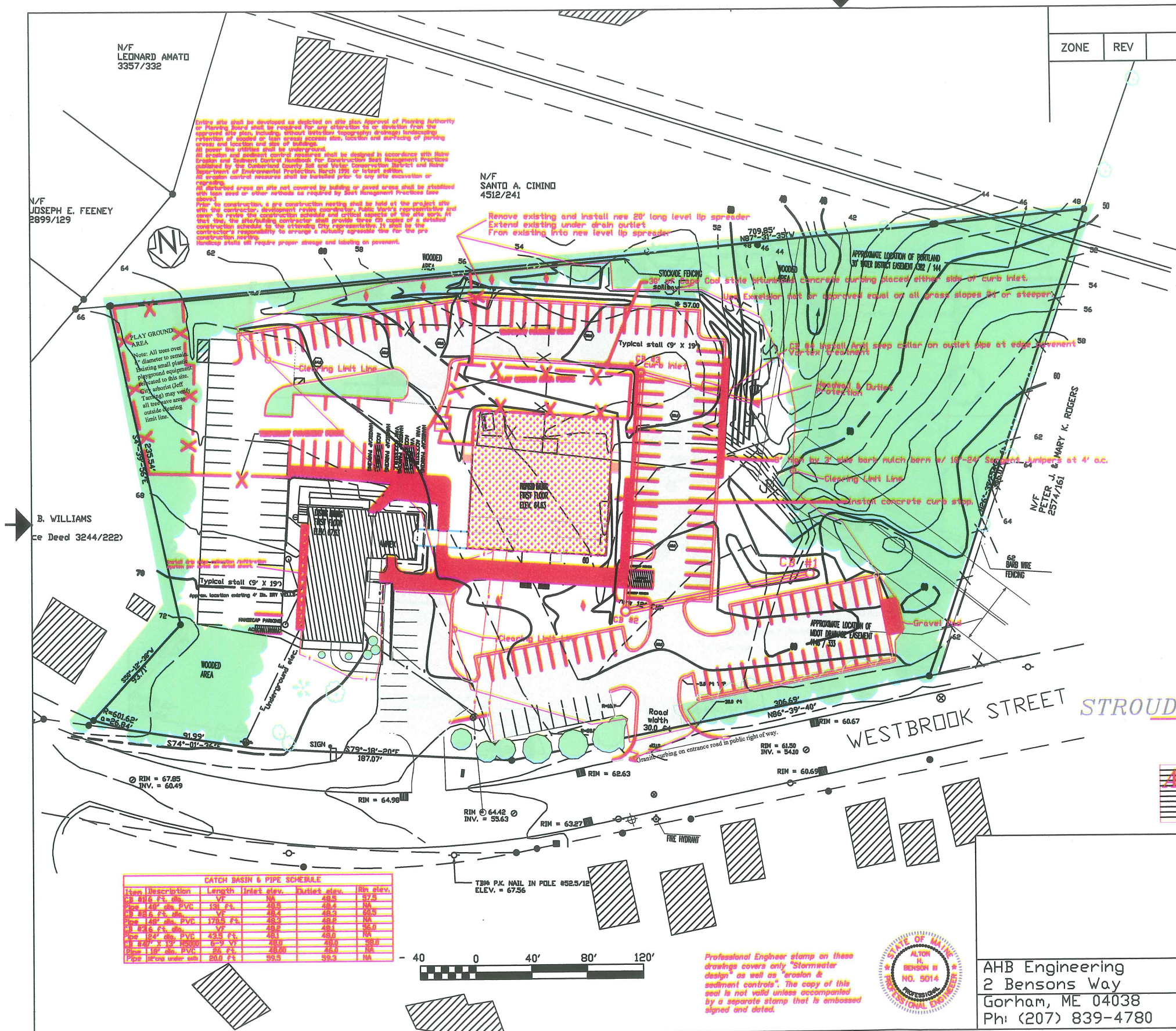
for  
**Advent Christian Church**  
1520 Westbrook Street Portland, Maine

Job 8704 Book 345 File 4380 Date 103  
August 7, 1987

R. P. TITCOMB ASSOCIATES, INC.  
LAND SURVEYORS / ENGINEERS  
50 Gray Road, Portsmouth, Maine



14b



REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
REFERENCES				
1) Topographic information and existing conditions traced from plans compiled by R.P. Titcomb Associates, Falmouth, ME - Aug. 7, 1987				
2) Existing condition contours revised in area of new parking areas and fill.				
3) Neighboring building locations from plan titled Copisc Brook Greenbelt Project Aerial Survey of Watershed, For: City of Portland, Parks & Public Works Dept. Engineering Div. Dated 5-15-92 By: Aerial survey & Photo Inc. Norridgewock, ME				
NOTES				
1) Bearings are based on magnetic north 1987 (see reference #1).				
2) Elevations are based on the City of Portland Data				
AREA				
211,882 SF. 4.86 ac.				
OWNER OF RECORD				
Advent Christian Church of Portland, Maine 4520/175				
LEGEND				
● IRON PIN FOUND (1/2" hollow pipe, unless noted)				
○ IRON PIN TO BE SET (5/8 rebar)				
■ MONUMENT FOUND				
NF NOW OR FORMERLY OF				
○ UTILITY POLE				
— EDGE OF PAVEMENT				
— EXISTING BUILDING				
— FENCE LINE				
— CATCH BASIN				
— WATER VALVE				
— MANHOLE				
— FIRE HYDRANT				
— DECIDUOUS TREE				
— CONIFER TREE				
— TREE LINE				
— NEW PAVED SIDEWALK				
— NEW CONTOUR LINE				
— STONE CHECK DAM				
— SILT FENCE				

**Preliminary Site Plan**  
**STROUDWATER CHRISTIAN CHURCH**  
1520 WESTBROOK STREET - PORTLAND, ME

PREPARED BY  
**AHB Engineering**  
Civil Engineering  
#2 Bensons Way

CATCH BASIN & PIPE SCHEDULE			
Item Description	Length	Inlet Elev.	Outlet Elev.
1. 12" dia. PVC	12.0'	67.5	67.5
2. 12" dia. PVC	12.0'	67.5	67.5
3. 12" dia. PVC	12.0'	67.5	67.5
4. 12" dia. PVC	12.0'	67.5	67.5
5. 12" dia. PVC	12.0'	67.5	67.5
6. 12" dia. PVC	12.0'	67.5	67.5
7. 12" dia. PVC	12.0'	67.5	67.5
8. 12" dia. PVC	12.0'	67.5	67.5
9. 12" dia. PVC	12.0'	67.5	67.5
10. 12" dia. PVC	12.0'	67.5	67.5



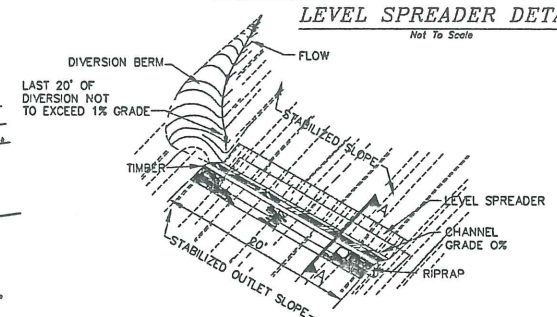
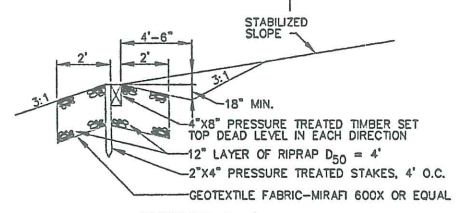
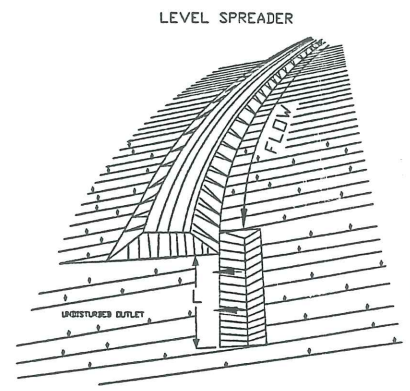
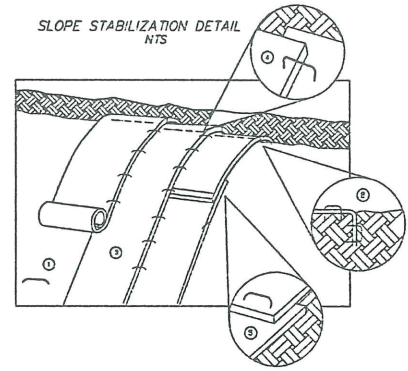
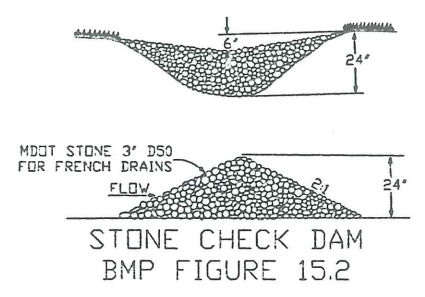
Site Plan			
Stroudwater Christian Church 1520 Westbrook Street - Portland Maine			
AHB Engineering 2 Bensons Way Gorham, ME 04038 Ph: (207) 839-4780	SIZE "B" FSCM NO. by: AHB	DWG NO. scc-site 100x100.dwg	REV "B"
SCALE 1"=80'	Sept. 18, 2002	SHEET 2 of 10	





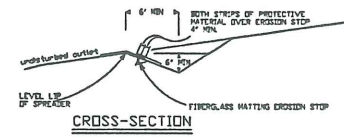


REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

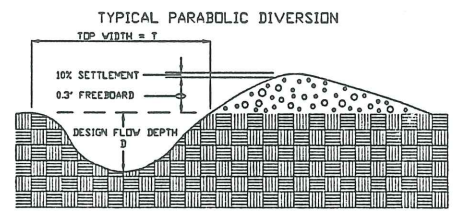


SLOPE ( $f_t / f_{t-1}$ )	LENGTH ( $f_{t-1}$ )
0.020	100
0.03	66
0.04	50
0.05	40
0.08	25
0.10	20
0.12	17
0.15	13

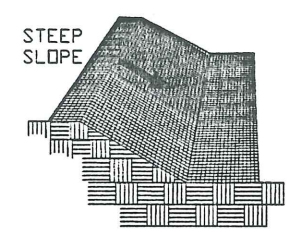
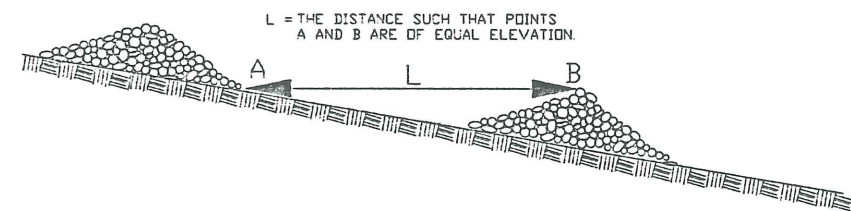
1. Prepare soil before installing blankets, including lime, fertilizer and seed.
2. Begin at top of slope by anchoring blanket in 6"x6" trench. Backfill and compact trench after stapling.
3. Roll blankets down or horizontally across slope.
4. Edges of parallel blankets must be stapled with min. 2" overlap.
5. When blankets must be spliced down the slope place blankets end over end (shingle style) with min. 4" overlap. Staple through overlap area approx 12" apart.



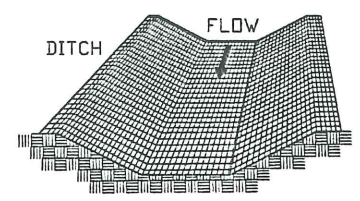
1. LEVEL SPREADER SHALL BE INSTALLED UNDER THE DIRECT SUPERVISION OF THE ENGINEER.  
2. CONTRACT LEVEL LIP UP ON GRADE TO INSURE UNIFORM SPREADING OF RUNOFF.  
3. SPREADER SHALL BE CONSTRUCTED OF STEEL OR CONCRETE.  
4. A FILTERLAP EXITTING CATCH BASIN SHALL BE PLACED VERTICALLY AND AT LEAST 6 INCHES FROM THE LIP.  
5. FILTERLAP SHALL BE 1/2" THICK AND 1/2" WIDE.  
6. EXITTING STOP SHALL DEFINE THE ENTIRE LENGTH OF THE LEVEL LIP AND SHALL BE TERMINED AFTER THE ENTIRE LENGTH OF THE LEVEL LIP.  
7. THE ENTIRE LEVEL LIP AREA SHALL BE PROTECTED BY PLACING TWO STRIPS OF JUTE OR EXCELLOID OVER THE ENTIRE LENGTH OF THE LEVEL LIP.  
8. THE ENTRANCE CHANNEL SHALL NOT EXCEED A 1:6 GRADE FOR AT LEAST 30 FEET BEFORE ENTERING SPREADER.  
9. THE ENTRANCE CHANNEL SHALL BE 12" WIDE AND 12" DEEP TO COLLECT UNUTILIZED AREAS. WATER SHALL NOT BE RECONCENTRATED IMMEDIATELY AFTER THE POINT OF DISCHARGE.  
10. PERIODIC INSPECTION AND REPAIRS MAINTENANCE SHALL BE PROVIDED.



*Erosion & sediment control details SHEET #2 of 3*  
STROUDWATER CHRISTIAN CHURCH

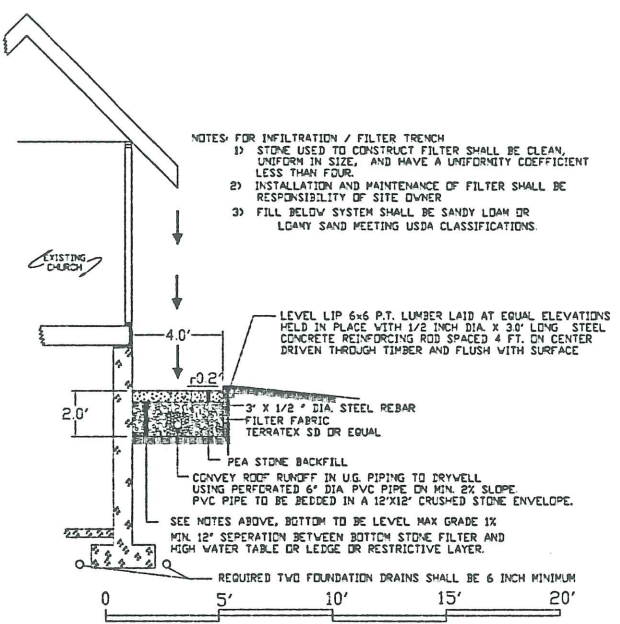


ON STEEP SLOPES, APPLY STRIPS OF NETTING PARALLEL TO DIRECTION OF FLOW AND ANCHOR SECURELY.



ANCHOR / STAPLE ALL NETTING PER  
MANUFACTURERS RECOMMENDATIONS.

IN DITCHES, APPLY NETTING  
PARALLEL TO DIRECTION  
OF FLOW. USE CHECK SLOTS  
EVERY 15 FEET. DO NOT  
JOIN STRIPS IN CENTER OF DITCH  
SEE BMP #1 PG. N-5  
BMPs FOR CONSTRUCTION MARCH 91




DRIP EDGE COLLECTION / INFILTRATION SYSTEM

*Professional Engineer stamp on these drawings covers only "stormwater design" as well as "erosion & sediment controls". The copy of this seal is not valid unless accompanied by separate stamp that is embossed signed and dated.*



PREPARED BY

 **AHB ENGINEERING**  
CIVIL ENGINEERING  
#2 BENSONS WAY  
GORHAM, ME 04038-2082

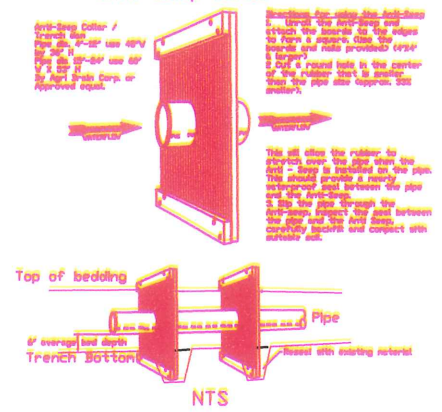
FILE NAME: E&S2of3.DWG

	Erosion & Sediment Control details			
	Stroudwater Christian Church 1520 Westbrook Street Portland, Maine			
AHB ENGINEERING #2 BENSONS WAY	SIZE "D"	FSCH NO. By: AHB	DWG NO. e&s2of3.dwg	REV
GURHAM, MAINE 04038-2082 Ph: (207) 839-4780	SCALE NTS	June, 2002		SHEET 9 of 10

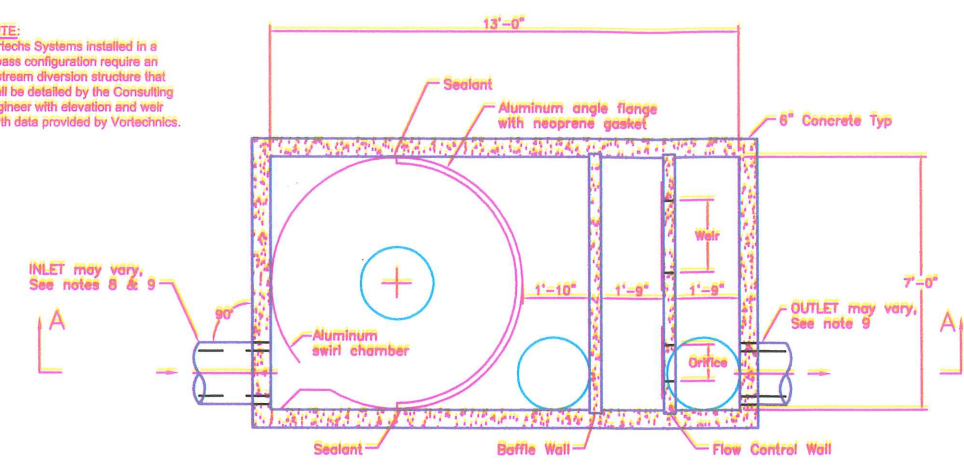


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### Anti-Seep Collar

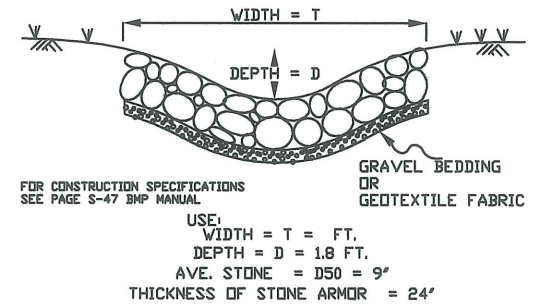


NOTE:  
Vortechs Systems installed in a bypass configuration require an upstream diversion structure that shall be detailed by the Consulting Engineer with elevation and well width data provided by Vortechs.

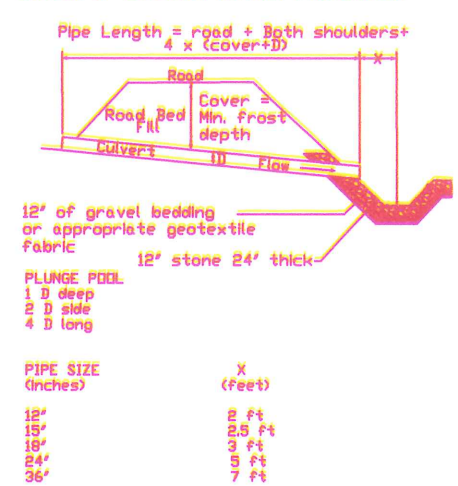


PLAN VIEW B - B

### REPAIR TO AREA BELOW MDOT EASEMENT PARABOLIC STONE LINED WATERWAY



### DETAIL OF CULVERT OUTLET PROTECTION



### NOTES:

1. Stormwater Treatment System (SWTS) shall have:  
Peak treatment capacity: 8.5 cfs  
Sediment storage: 3.25 cu yd  
Sediment chamber dia: 7' min
2. SWTS shall be contained in one rectangular structure
3. SWTS removal efficiency shall be based on a 50 micron particle
4. SWTS shall retain floatables and trapped sediment up to and including peak treatment capacity
5. SWTS inverts in and out shall be at the same elevation
6. SWTS shall not be compromised by effects of downstream tailwater
7. SWTS shall have no internal components that obstruct maintenance access
8. Inlet pipe must be perpendicular to the structure
9. Pipe orientation may vary; see site plan for size and location
10. Purchaser shall not be responsible for assembly of unit
11. Manhole frames and perforated covers supplied with system, not installed
12. Purchaser to prepare excavation and provide lifting equipment
13. Contact Vortechs @ (207) 878-3662 for ordering information

This CADD file is for the purpose of specifying stormwater treatment equipment to be furnished by Vortechs, Inc. and may only be transferred to other documents exactly as provided by Vortechs. This block information, including the Vortechs logo and the Vortechs Stormwater Treatment System designation and patent number, may be deleted if necessary. Revisions to any part of this CADD file without prior coordination with Vortechs shall be considered unauthorized use of proprietary information.

### STANDARD DETAIL STORMWATER TREATMENT SYSTEM VORTECHS™ MODEL 5000 U.S. PATENT No. 5,759,415

PROPRIETARY INFORMATION - NOT TO BE USED FOR CONSTRUCTION PURPOSES  
01/17/02 1/4" = 1'-0" STD&K DMF

Professional Engineer stamp on these drawings covers only "stormwater control design" as well as "erosion & sediment controls". The copy of this seal is not valid unless accompanied by a separate stamp that is embossed, signed and dated.

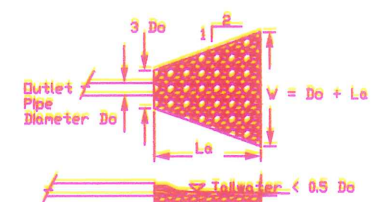


### REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	-	Submission to City of Portland	6/17/02	
	A	Resubmission per comments	9/18/02	

### OUTLET PROTECTION ROCK APRON

EXTREMELY HIGH WINDS	2-50	1-50	1-50	1-50	1-50	1-50
12" RCP UNDER SIDEWALK DUTY	4 INCH	5 FT.	5 FT.	5 FT.	5 FT.	5 FT.
18" PVC VORTECHS SYSTEM DUTY	6 INCH	5 FT.	5 FT.	5 FT.	5 FT.	5 FT.



Vortechs sizing calculations  
Q1 year storm = 3.09 cfs  
Vortechs model 5000 treatment capacity = 8.5 cfs  
Grit chamber diameter = 7 ft.  
Vortechs system swirl chamber surface area calculations  
Surface area = (pi) r squared = (3.14) (7'x7') = 38 sq ft.  
Q 1 yr operating rate = Q 1 yr / grit chamber surface area  
= (3.09 cfs x 448.8 gpm / cfs) / 38 sq ft  
= 36.5 gpm / sq ft  
50% ME DEP Total Suspended Solids Removal Rating Verified  
Per May 24th 2001 letter from MDEP letter 50% removal rating will apply as Vortechs System, provided that peak flow doesn't exceed a water loading rate of 42 gpm/sq ft within the system. 36.5 gpm/sq ft is less than 42 OK.

### Erosion & Sediment control details SHEET #3 of 3 STROUDWATER CHRISTIAN CHURCH

1520 WESTBROOK STREET- PORTLAND, ME

June, 2002

PREPARED BY



**AHB ENGINEERING**

CIVIL ENGINEERING

#2 BENSONS WAY  
GORHAM, ME 04038-2082

FILE N

### Erosion and Sediment Control Details

Stroudwater Christian Church  
1520 Westbrook Street  
Portland Maine

SIZE	FSCM NO.	DWG NO.	RE
"B"	BY: AHB	E&SOF.dwg	"A"

SCALE	NTS	September, 2002	SHEET	10 of 10
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