



See also PC051 and PC053

CERTIFICATE OF AUTHENTICITY

THIS IS TO CERTIFY THAT THE FOLLOWING ELECTRONIC RECORDS ARE TRUE AND ACCURATE REPRODUCTIONS OF THE ORIGINAL RECORDS OF JAMES CITY COUNTY GENERAL SERVICES DEPARTMENT- STORMWATER DIVISION; WERE SCANNED IN THE REGULAR COURSE OF BUSINESS PURSUANT TO GUIDELINES ESTABLISHED BY THE LIBRARY OF VIRGINIA AND ARCHIVES; AND HAVE BEEN VERIFIED IN THE CUSTODY OF THE INDIVIDUAL LISTED BELOW.

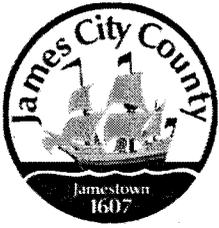
BMP NUMBER: PC047

DATE VERIFIED: July 6, 2012

QUALITY ASSURANCE TECHNICIAN: Leah Hardenbergh

Leah Hardenbergh

LOCATION: WILLIAMSBURG, VIRGINIA



Stormwater Division

MEMORANDUM

DATE: March 13, 2010
TO: Michael J. Gillis, Virginia Correctional Enterprises Document Management Services
FROM: Jo Anna Ripley, Stormwater
PO: 270712
RE: Files Approved for Scanning

General File ID or BMP ID: PC047

PIN: 4710100021

Subdivision, Tract, Business or Owner

Name (if known):

Jamestown Presbyterian Church

Property Description:

Church site

Site Address:

3287 Ironbound Road

(For internal use only)

Box 1

Drawer: 2

Agreements: (in file as of scan date)

N

Book or Doc#:

Page:

Comments

This is a combined folder with PC051 & PC053; pond 1 of 3



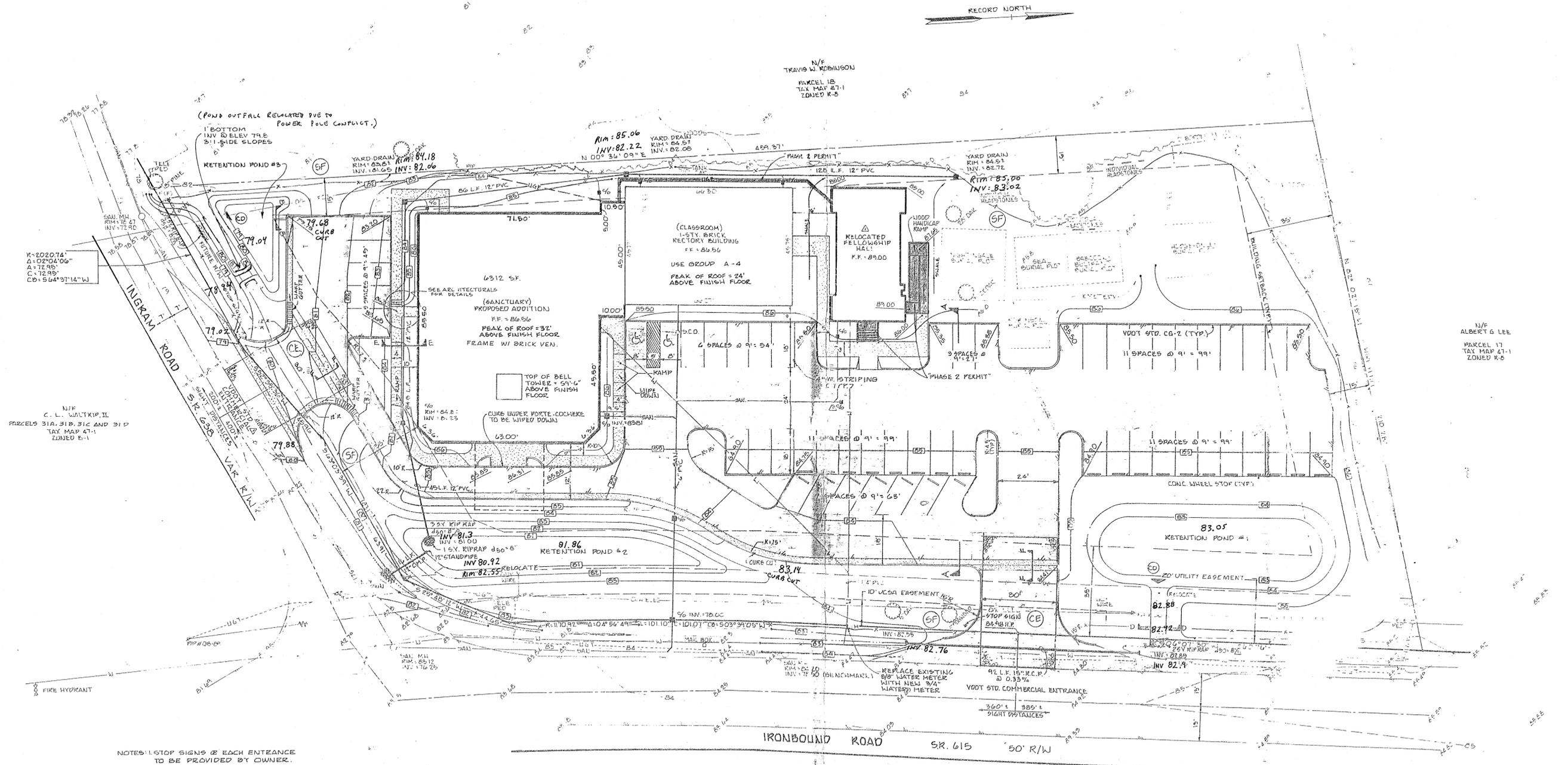
Langley and McDonald
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ENGINEERS-PLANNERS-SURVEYORS
 VIRGINIA BEACH - WILLIAMSBURG, VIRGINIA

DES.	SAR
DWN	HTB/CLJ
CHK.	SAR
DATE	5-28-91

**JAMESTOWN PRESBYTERIAN CHURCH
 PROPOSED ADDITION**
 JAMES CITY COUNTY, VIRGINIA

SITE PLAN

PROJ. NO.	91018
SCALE:	1" = 20'
SHEET	4 OF 6
DWG.	3940W



- NOTES: 1. STOP SIGNS AT EACH ENTRANCE TO BE PROVIDED BY OWNER.
 2. VDOT IS NOT RESPONSIBLE FOR RETENTION PONDS OR ANY OF ITS STRUCTURES OR APPURTENANCES.
 3. THE CONTRACTOR SHALL OVER EXCAVATE CLAY FROM THE RETENTION PONDS AND REPLACE WITH TOPSOIL TO ENSURE ESTABLISHMENT OF VEGETATION.
 4. ALL EXISTING TREES REMAINING IN CONSTRUCTION AREA TO BE PROTECTED IN ACCORDANCE WITH DETAIL ON SHEET G.

- LEGEND**
- PROPOSED CONTOURS
 - PROPOSED GRADES
 - EDGE OF PAVEMENT
 - PROPOSED CURB
 - PROPOSED CURB & GUTTER
 - PROPOSED CLEANOUT
 - UNDERGROUND ELECTRIC
 - CLEANOUT

NOTE: FUNCTIONS IN THE FELLOWSHIP HALL OR CLASSROOM SHALL NOT COINCIDE WITH GATHERINGS IN THE NEW SANCTUARY

SECTION E-E
N.T.S.

SECTION F-F
N.T.S.



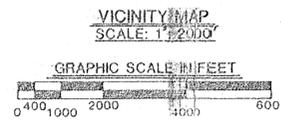


JAMESTOWN PRESBYTERIAN CHURCH PROPOSED ADDITION

JAMES CITY COUNTY, VIRGINIA

MAY 28, 1991

EXISTING	LEGEND	PROPOSED
---	SANITARY SEWER	---
---	WATER	---
---	STORM SEWER	---
---	ELECTRIC LINE	---
---	TELEPHONE	---
---	GAS LINE	---
---	CABLE TV LINE	---
---	FORCE MAIN	---
---	MANHOLE	---
---	CURB DROP INLET	---
---	YARD DROP INLET	---
---	CLEANOUT	---
---	FLARED END SECTION	---
---	VALVE	---
---	WATER METER	---
---	FIRE HYDRANT	---
---	POWER POLE	---
---	LIGHT POLE	---
---	TELEPHONE PEDESTAL	---
---	TELEPHONE POLE	---
---	GROUND ELEVATION	---
---	GROUND CONTOUR	---
---	CEMENT CONCRETE	---
---	BITUMINOUS CONCRETE	---
---	CONCRETE CURB	---
---	PROJECT LIMITS	---
---	CENTERLINE/BASELINE	---
---	PROPERTY LINE	---
---	DITCH SWALE LINE	---
---	DIRECTION OF FLOW	---
---	TREE LINE	---
---	FENCE	---
---	BORING	---
---	BENCH MARK	---



SHEET INDEX

1. COVER SHEET
2. EXISTING CONDITIONS
3. DEMOLITION PLAN
4. SITE PLAN
5. LANDSCAPE PLAN
6. DETAILS AND NOTES

STATISTICAL DATA

TAX MAP 47-1, PARCEL 21	
ZONED R-S	
TOTAL AREA OF PARCEL	1.8122 AC.
AREA OF EXISTING BUILDING	4,393 S.F.
AREA OF PROPOSED BUILDING	6,312 S.F.
AREA OF PAVED SURFACE	23,688 S.F.
TOTAL IMPERVIOUS AREA	38,196 S.F. (48% OF SITE)
OPEN SPACE	40,743 S.F. (52% OF SITE)
PARKING SPACES REQUIRED (1 SPACE/5 SEATS)	56
PARKING SPACES PROVIDED 54 + 2 HANDICAP SPACES	

REVISIONS

- 8/16/91 PER COUNTY COMMENTS
- 3/17/92 PER OWNER REQUEST
- 5/29/92 LANDSCAPE PLAN

FOR INFORMATION CONCERNING THIS PLAN PLEASE CONTACT:

JAMESTOWN PRESBYTERIAN CHURCH
C/O MR. JAMES HAZELWOOD
230 NEEK-O-LAND ROAD
WILLIAMSBURG, VIRGINIA 23185

PHONE (229-4841)

LANGLEY AND McDONALD
C/O MR. STEPHEN A. ROMEO
201 PARKETS COURT
WILLIAMSBURG, VIRGINIA 23185

PHONE (253-2975)

THE YATES GROUP
C/O MR. GLENN YATES
714 HIGH STREET
PORTSMOUTH, VIRGINIA 23704

PHONE (399-7565)

APPROVALS

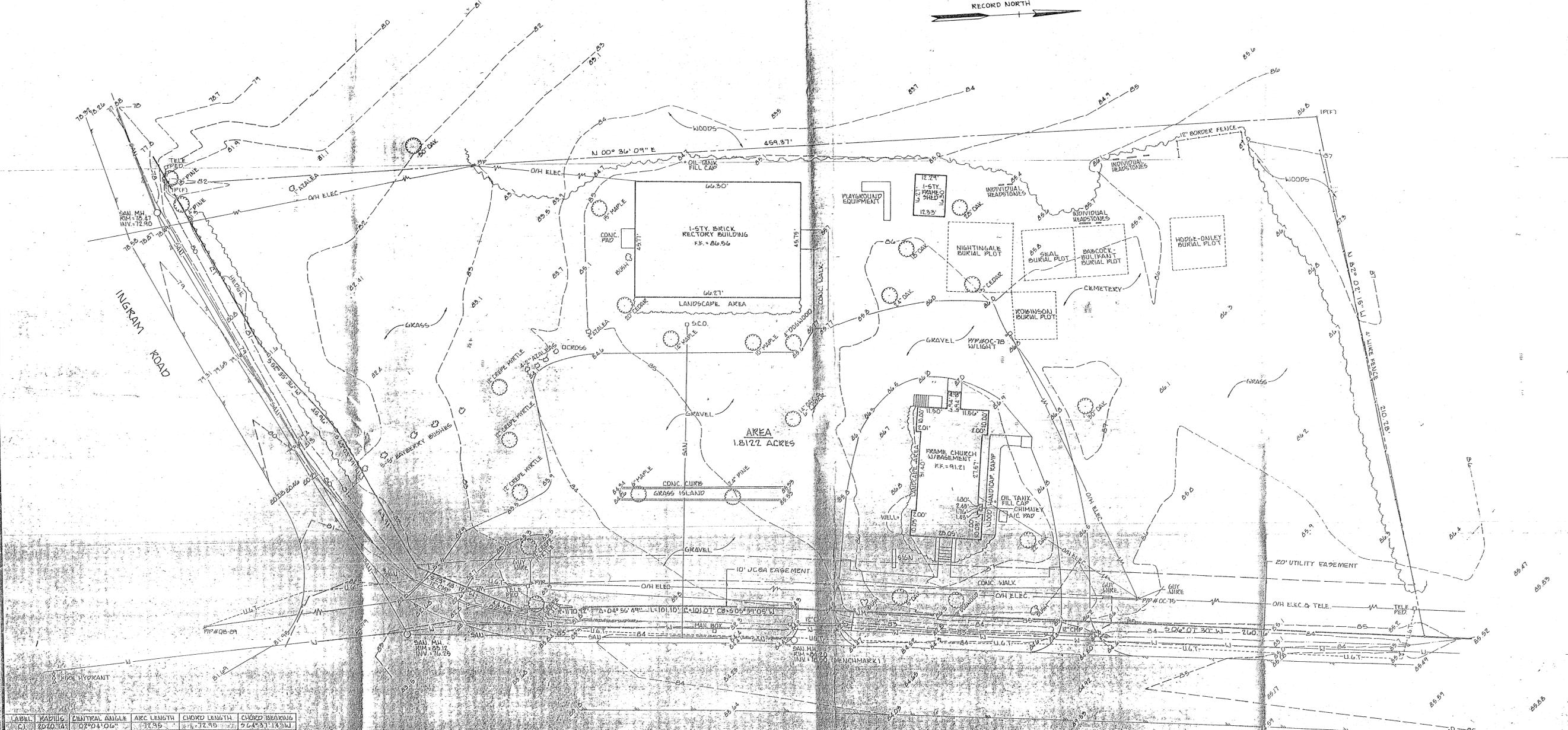
APPROVALS	DATE
Received	
Fire Dept. <i>Romero</i>	6/31/92
Health Dept. <i>asml</i>	6/31/91
Highway Dept. <i>Beal</i>	4/19/92
Plan. Comm. <i>...</i>	6/11/92
Pub. Works Dept. <i>...</i>	6/11/92
Zoning Adm. <i>...</i>	6/11/92
JCSA <i>...</i>	8/22/91
Other <i>...</i>	8/27/91



DES.	DWN	CLJ
CHK.	SAR	
DWG.	5-28-91	

**JAMESTOWN PRESBYTERIAN CHURCH
PROPOSED ADDITION
JAMES CITY COUNTY, VIRGINIA**
EXISTING CONDITIONS

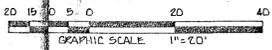
PROJ. NO.	91018
SCALE:	1" = 20'
SHEET	2 OF 6
DWG.	3942W

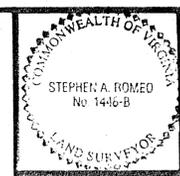


LABEL	MARKING	CENTRAL ANGLE	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	ZDZ0114	02°04'06"	37.95	37.95	264°31'14.3W

THIS PROPERTY LIES IN ZONE X WHICH HAS BEEN DETERMINED TO BE OUTSIDE 500 YEAR FLOOD PLAIN AS SHOWN ON COMMUNITY PANEL 510201-00455 FLOOD INSURANCE RATE MAP.

- LEGEND**
- SAN. MH. SANITARY SEWER MAINHOLE
 - OS.C.D. SANITARY SEWER CLEANOUT
 - SAN. SANITARY SEWER
 - PAV. — EDGE OF PAVEMENT
 - DITCH OR SWALE
 - U.G.T. — UNDERGROUND TELEPHONE LINE
 - W. — WATERLINE
 - OH. ELEC. OVERHEAD ELECTRIC
 - C.M.P. CORRUGATED METAL PIPE
 - W.M. WATER METER
 - P.P. POWER POLE
 - CONC. CONCRETE
 - I.P.F. IRON PIPE FOUND
 - B.S. SPOT ELEVATION



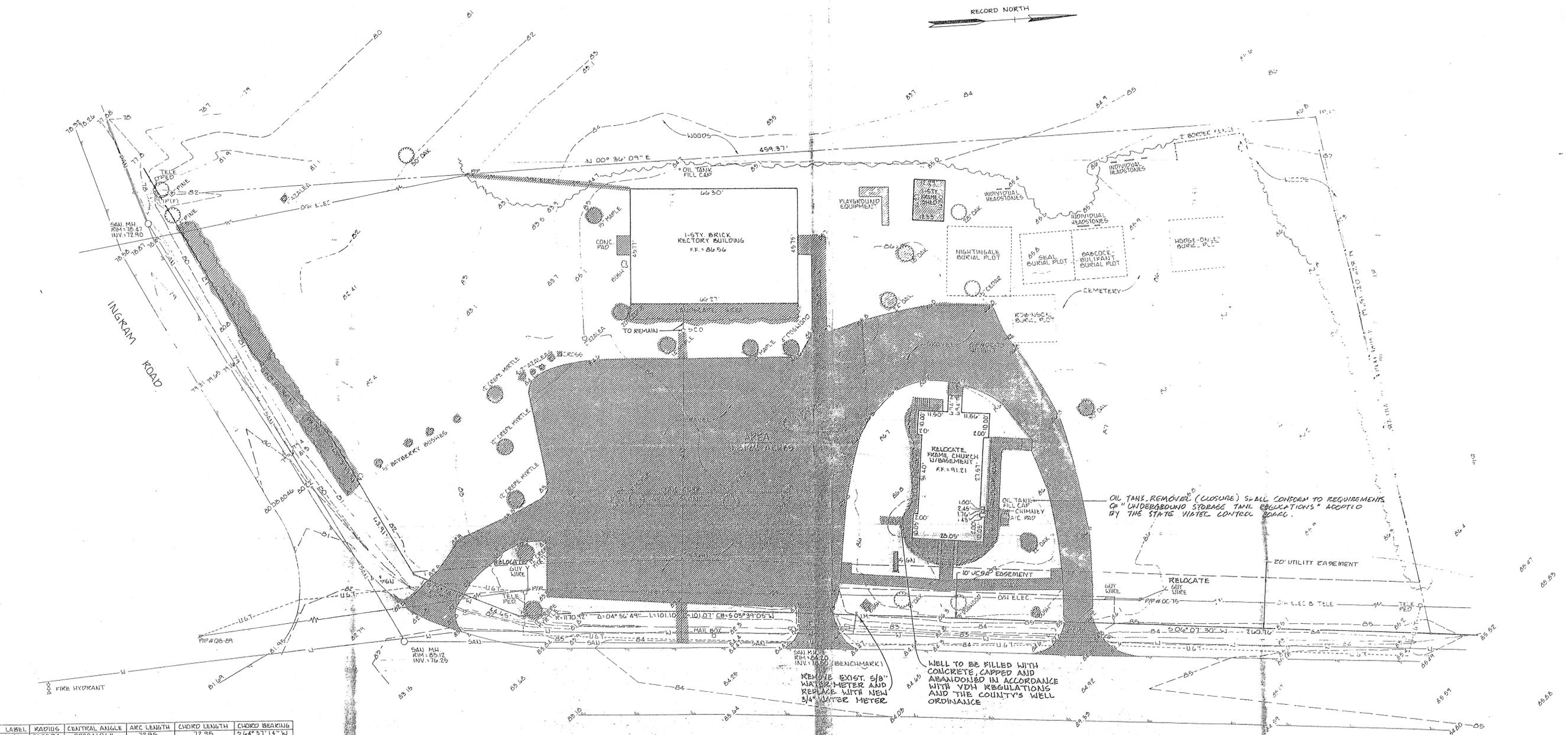


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DES.	SAR
DWN.	CLJ IITB
CHK.	SAR
DATE	5-28-01

**JAMESTOWN PRESBYTERIAN CHURCH
 PROPOSED ADDITION
 JAMES CITY COUNTY, VIRGINIA**
 DEMOLITION PLAN

PROJ. NO.	91018
SCALE:	1" = 20'
SHEET	3 OF 6
DWG.	3941W



LABEL	RADIUS	CENTRAL ANGLE	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	2020.74	02°04'06"	72.95	72.95	964°51'14" W

- DEMOLITION NOTES:**
- ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH "VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS", JANUARY, 1987, SECTION 518.
 - ALL FACILITIES TO BE DEMOLISHED SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ALL MATERIALS FROM THE SITE BY THE CONTRACTOR.
 - CONTRACTOR TO ARRANGE WITH APPROPRIATE UTILITY COMPANIES, TO PROTECT EXISTING UTILITIES IN AREAS OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ANY ADJUSTMENTS TO EXISTING UTILITIES SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
 - PRIOR TO COMMENCEMENT OF DEMOLITION, THE CONTRACTOR IS DIRECTED TO NOTIFY ALL APPLICABLE OWNERS OF UTILITIES OF THE LIMITS OF IMPENDING DEMOLITION IN ORDER THAT THE UTILITY COMPANIES MAY SAFEGUARD THEIR FACILITIES.
 - OVERHEAD, "SURFACE" AND "SUB-SURFACE" INVESTIGATIONS: THE INFORMATION CONCERNING EXISTING UNDERGROUND CONDUITS, CABLES AND "GROUND" STRUCTURES HAS BEEN OBTAINED BY THE OWNER FOR HIS OWN USE. ALL SUCH INFORMATION AND THE DRAWINGS OF EXISTING UTILITIES ARE FURNISHED ONLY FOR THE INFORMATION AND CONVENIENCE OF THE BIDDERS. ITS ACCURACY OR COMPLETENESS IS NOT GUARANTEED BY THE OWNER AND IS NOT INTENDED TO BE CONSIDERED AS A PART OF THE CONTRACT DOCUMENTS EVEN THOUGH SHOWN FOR GUIDANCE ON SOME DRAWINGS. THE CONTRACTOR MUST UNDERTAKE SUCH INVESTIGATIONS AS HE DEEMS NECESSARY TO VERIFY THE LOCATION OF SUCH UNDERGROUND CONDUITS, CABLES AND GROUND STRUCTURES. THE CONTRACTOR MUST ASSUME ALL RISKS IN EXCAVATING FOR THIS CONTRACT BASED ON HIS OWN INVESTIGATION OF THESE UNDERGROUND CONDUITS, CABLES AND GROUND STRUCTURES.
 - IT IS FURTHER AGREED AND UNDERSTOOD THAT THE BIDDER OR THE CONTRACTOR WILL NOT USE ANY OF THE INFORMATION MADE AVAILABLE TO HIM OR OBTAINED IN ANY EXAMINATION MADE BY HIM IN ANY MANNER AS A BASIS OR GROUND OF CLAIM OR DEMAND OF ANY NATURE, AGAINST THE OWNER OR THE ENGINEER, ARISING FROM OR BY REASON OF ANY VARIANCE WHICH MAY EXIST BETWEEN THE INFORMATION OFFERED AND THE ACTUAL MATERIALS OR STRUCTURES ENCOUNTERED DURING THE CONSTRUCTION WORK, EXCEPT AS MAY OTHERWISE BE PROVIDED FOR IN THE CONTRACT DOCUMENTS.

LEGEND

—○—○—	SANITARY SEWER MAINHOLE
—S/C—	SANITARY SEWER CLEANOUT
—SAL—	SANITARY SEWER
—	EDGE OF PAVEMENT
—	DITCH OR SWALE
—UGT—	UNDERGROUND TELEPHONE LINE
—W—	WATERLINE
—OH ELEC—	OVERHEAD ELECTRIC
—CMP—	CORRUGATED METAL PIPE
—WM—	WATER METER
—PP—	POWER POLE
—CONC—	CONCRETE
—WPA—	WELD PIPE FOUND
—85.9—	SPOT ELEVATION
—	DEMOLITION AREAS





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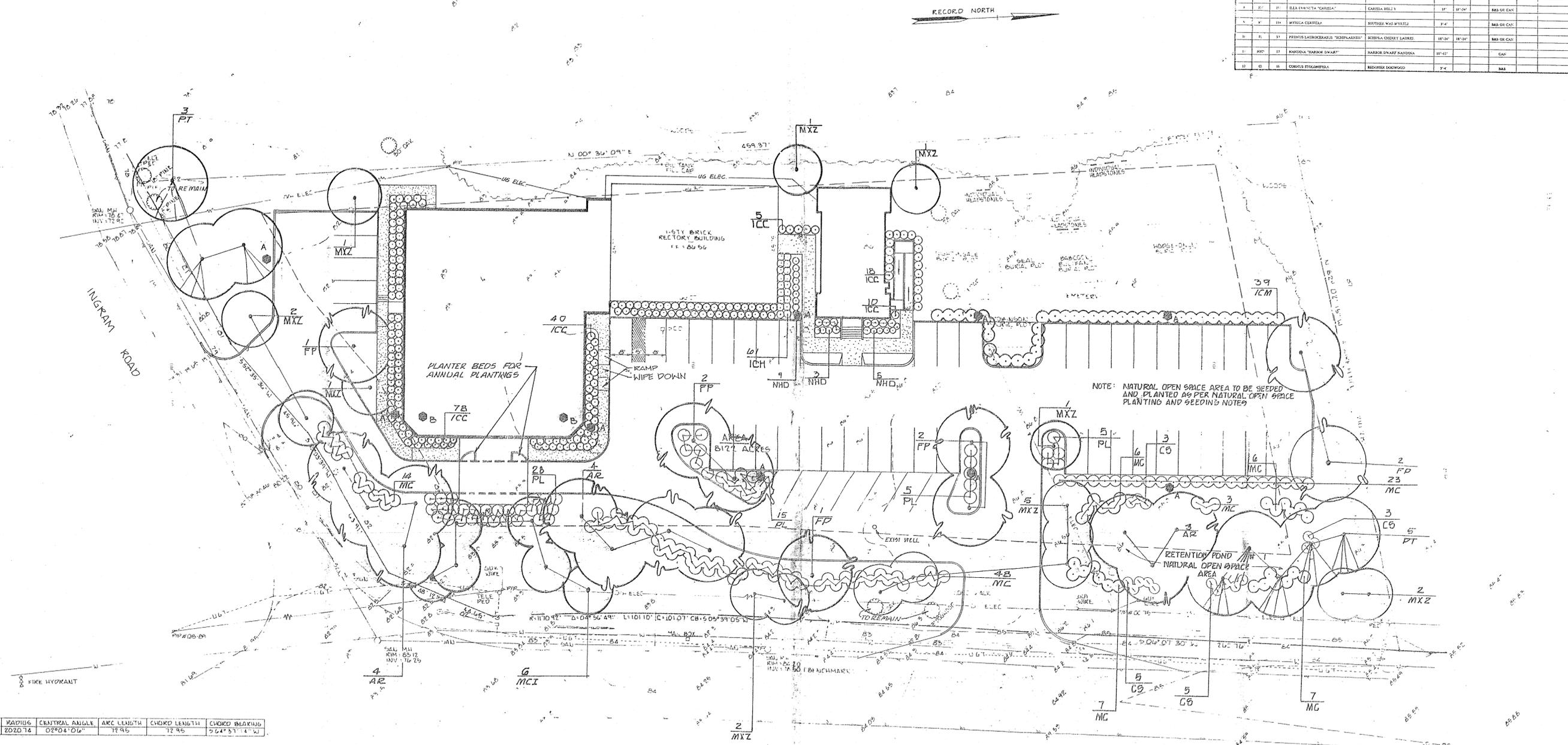
DES.	JAM
DWN	JAM
CHK.	SAR
DATE	5-28-91

**JAMESTOWN PRESBYTERIAN CHURCH
 PROPOSED ADDITION**
 JAMES CITY COUNTY, VIRGINIA

LANDSCAPE PLAN

PROJ. NO.	91018
SCALE:	1" = 20'
SHEET	5 OF 6
DWG.	3939W

ITEM NO.	QTY.	SYMBOL	SYMBOL NAME	COMMON NAME	INITIAL HEIGHT	WIDTH	SIZE CAL.	ROOT	SPACING	COMMENT
1	1	FR	FRANCOUS PENNYCILIATA	MARSHALL REDDISH ASH	10'-12"	2'-0"	3-1/2"	BAB		
2	1	FR	FRANCOUS PENNYCILIATA	LONGLEY PINE	8'	3'-4"		BAB		
3	1	FR	FRANCOUS PENNYCILIATA	ZUNI CALOCARPA CRABAPPLE	8'			BAB		
4	1	FR	FRANCOUS PENNYCILIATA	SOUTHERN WALNUT	8'			BAB		SEE FORM SHEET 57B
5	1	FR	FRANCOUS PENNYCILIATA	RED MAPLE	10'-12"	2'-0"	3-1/2"	BAB		
6	1	FR	FRANCOUS PENNYCILIATA	HILLBURY HICKORY	10'	10'-10"		BAB / CAN		
7	1	FR	FRANCOUS PENNYCILIATA	LITTLE LEAF HOLLY	10'-12"	10'-12"		BAB OR CAN		
8	1	FR	FRANCOUS PENNYCILIATA	CAROLINA HOLLY	10'	10'-10"		BAB OR CAN		
9	1	FR	FRANCOUS PENNYCILIATA	WINTERBURN WAX MYRTLE	8'-10"			BAB OR CAN		
10	1	FR	FRANCOUS PENNYCILIATA	SCOTTS CHERRY LAUREL	10'-12"	10'-12"		BAB OR CAN		
11	1	FR	FRANCOUS PENNYCILIATA	HARBOR SPARK NANDINA	10'-12"			CAN		
12	1	FR	FRANCOUS PENNYCILIATA	REDROSE DOGWOOD	8'-10"			BAB		



LABEL	RADIUS	CENTRAL ANGLE	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	Z0Z0 74	0°20'4"06"	17.95	17.95	564°33'14" W

NATURAL OPEN SPACE SEEDING NOTES:

A. WORK INCLUDED, BUT NOT LIMITED TO: Tillage, seeding, and mulching of all disturbed areas within the Contract limits not occupied by structures or exterior plantings.

B. QUALITY ASSURANCE

- Seeding work shall be performed by a single firm specializing and experienced in landscape work.
- Ship materials with certificates of inspection required by governing authorities. Comply with regulations applicable to landscape materials.
- Topsoil Analysis: Provide and pay for the services of a testing agency to perform an analysis of topsoil to be used, and a determination of nutritional requirements of soil for establishment of lawns.
- State-certified seed of the latest season's crop, labeled in conformance with U.S. Department of Agriculture rules and regulations under the Federal Seed Act and applicable State seed laws. Seed that has become wet, moldy, or otherwise damaged will not be acceptable. Seed moisture shall be recommissioned by accept as follows:

WET AREA DESCRIPTION	% BY WEIGHT	MINIMUM % PURITY	MINIMUM % GERMINATION
Annual Rye Grass	20%		
Korean Leispedeza	15%	95	85
Scirpus Lepidopoda	15%	95	85
Flea Flea	30%	95	85
Red Clover	20%	95	85

Rate: 80 lbs./acre / Seeding Dates: 3/15 to 5/1; 8/15 to 10/1

D. Legume Seed - Legume seed shall be inoculated with the inoculant appropriate to the species. Seeds of lespedeza, crown vetch, and clovers should be scarified to promote uniform germination.

E. Legume inoculant shall be applied at four times the recommended rate when inoculant are included in the hydroseeding slurry.

F. Straw mulch: Straw shall be stalks from oats, wheat, rye, barley or rice that are free from noxious weeds, chemicals, mold or other objectionable materials.

G. Straw shall be in an air-dry condition suitable for placing. Straw supplied for mechanical application shall be chipped.

H. Seeding shall not be done when the ground is frozen, snow covered, saturated, or in any other condition which would make establishment and survival of lawns unlikely.

I. At the time of beginning seed bed preparation, topsoil shall be in a loose, friable condition, free from stones over 1-1/2" in any dimension, sticks, roots and other extraneous matter. If topsoil has become crusted, hardened or eroded since being spread, it shall be a part of this work to restore the soil to the loose condition described above.

J. Prior to preparation of undisturbed areas, remove vegetation and debris and dispose of such material off-site; do not dig under into soil being prepared for seed bed. Loosen existing grade to a depth of 4", remove all debris which surfaces.

K. Natural seed areas shall be dry-seeded or hydroseeded as the Contractor's option.

L. Work areas to an even slightly roughened surface free from surface irregularities, ridges or depressions. Prepared areas shall meet required finish grade elevations and shall drain adequately.

M. Moisture prepared areas if soil is dry. Water thoroughly, then allow surface moisture to evaporate. Do not create muddy soil conditions.

N. Apply seed uniformly with a cyclone feeder, drill, cultipacker seeder, or hydroseeder on a firm, friable seedbed. Maximum seeding depth should be 1/4 inch.

O. Hydroseeding - To avoid seed damage, if a machinery breakdown of 30 minutes to 2 hours occurs, 50% more seed shall be added to the tank, based on the proportion of the slurry remaining in the tank. Beyond 2 hours, a full rate of new seed is required.

P. If lime is required, it may be provided in the hydroseed slurry or applied in pelletized or liquid form, separately. Rate of wood fiber shall be at least 2000 lbs. per acre.

Q. Work shall not be accepted and contractor released from responsibility until an evenly distributed stand of grass is established over 80% of natural open space area.

NATURAL OPEN SPACE PLANTING NOTES:

- Natural open space areas shall be established prior to planting or seeding.
- Sub-soiling operations shall occur in the natural open space area and shall consist of an 18" single shank sub-soiler attached to a tractor. Sub-soiler in two directions at right angles to each other.
- Sub-soiling shall be performed after the placement of topsoil in the planting area. No additional equipment use shall occur on the area following the sub-soiling operation.
- Addition of fertilizer and lime shall be handled in accordance with the general planting specifications to obtain an acceptable pH range of 5.5-6.2.

LIGHTING KEY

- A - 175W METAL HALIDE LAMP ON 10' HIGH DECORATIVE POLE
- B - 175W METAL HALIDE LAMP ROOF MOUNT SPOT LIGHT TO ILLUMINATE BELL TOWER

NOTE: ALL PROPOSED PLANTING SHALL BE IN ACCORDANCE WITH SECTION 10-2 OF THE COUNTY'S ZONING ORDINANCE. ALL PROPOSED OUTDOOR LIGHTING SHALL BE DIRECTED AWAY FROM AND NOT GLARE ONTO ADJACENT PROPERTIES. ALL EXISTING TREES REMAINING ON SITE WITHIN CONSTRUCTION AREA ARE TO BE PROTECTED IN ACCORDANCE WITH DETAIL ON SHEET 6.

LEGEND

- SSW M SANITARY SEWER MAINLINE
- SSC S SANITARY SEWER CLEANOUT
- SAN SANITARY SEWER
- EDGE GE PAVEMENT
- DITCH OR SWALE
- UGT UNDERGROUND TELEPHONE LINE
- WATERLINE
- OH ELEC OVERHEAD ELECTRIC
- CMP CORRUGATED METAL PIPE
- WM WATER METER
- WP WATER PILE
- CONC CONC RETE
- IRP IRON PIPE ROUND
- BS-9 18" PIPE EJECTION

20 15 10 5 0 20 40
 GRAPHIC SCALE 1" = 20'

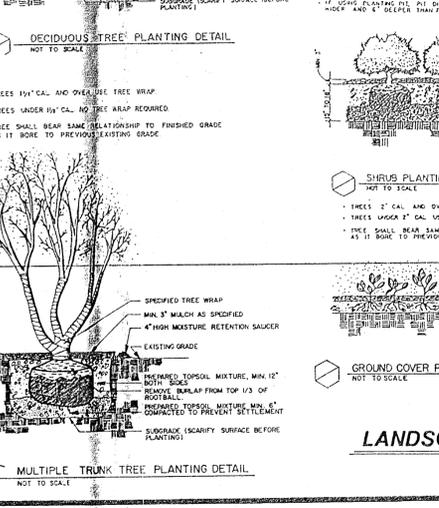
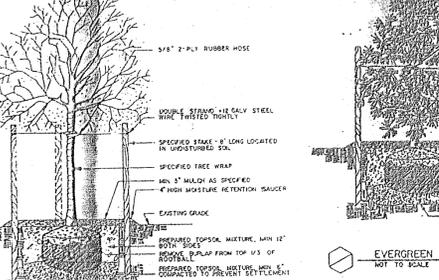
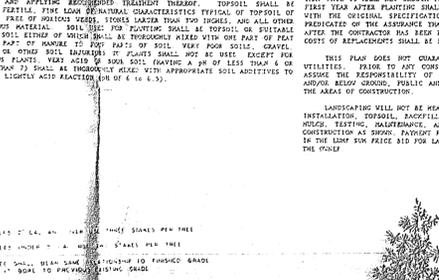
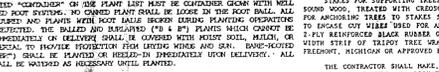
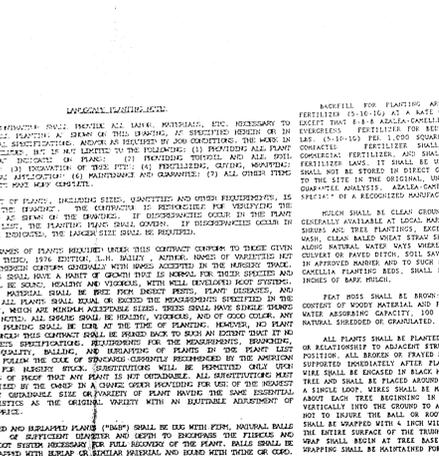
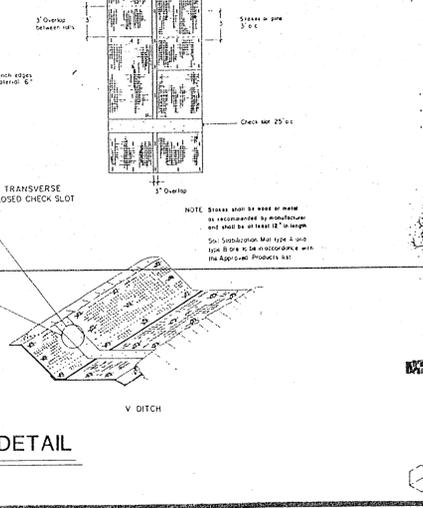
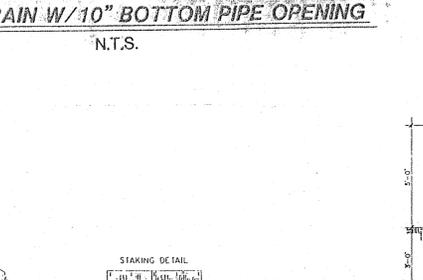
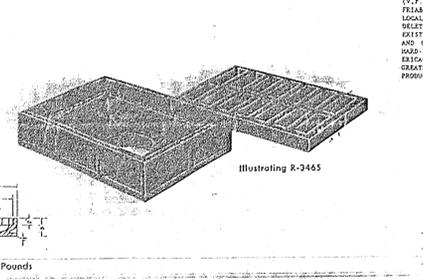
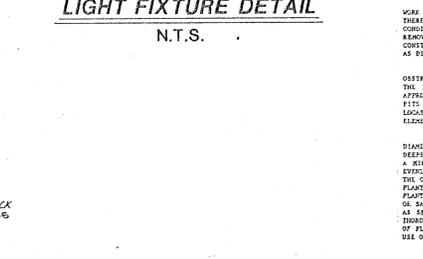
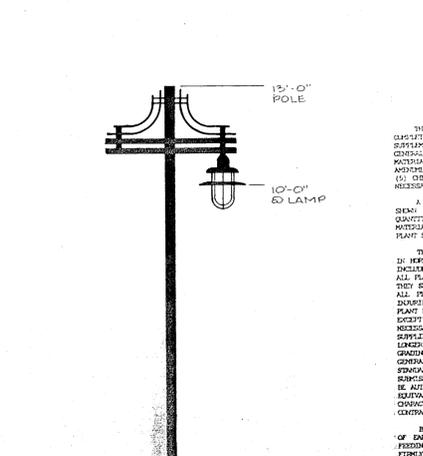
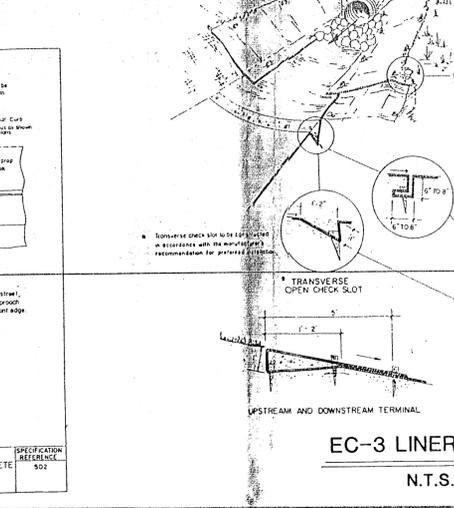
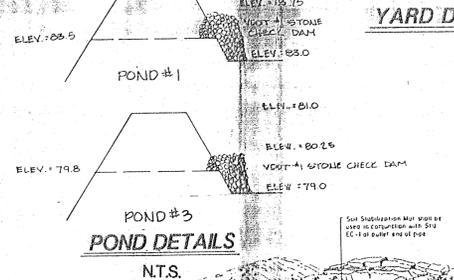
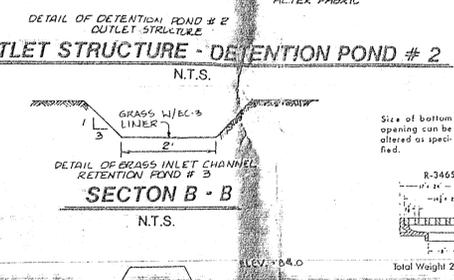
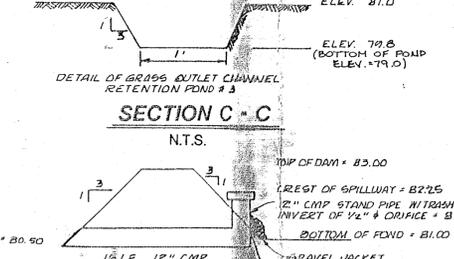
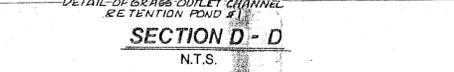
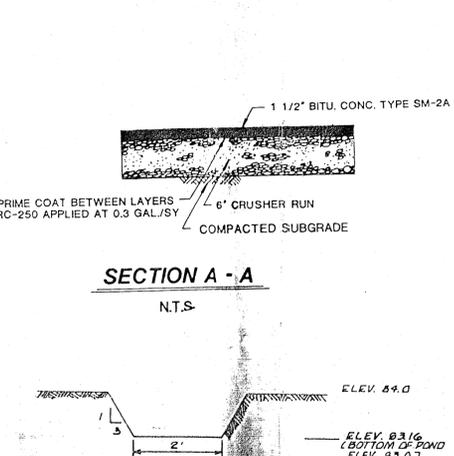
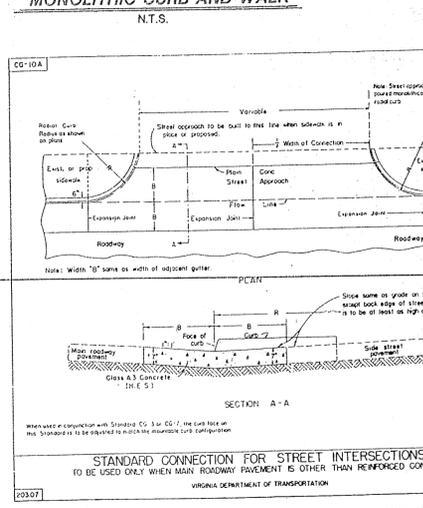
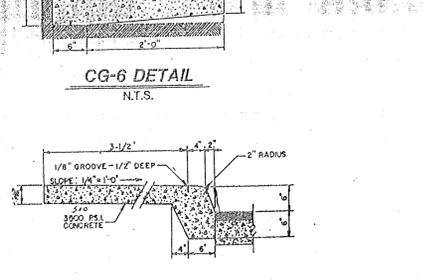
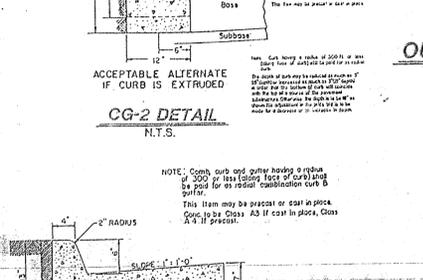
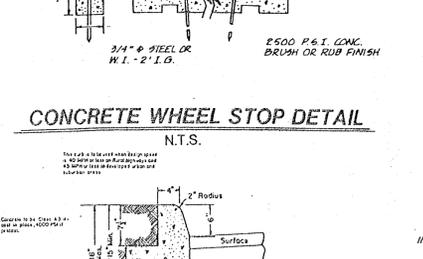
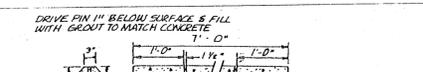
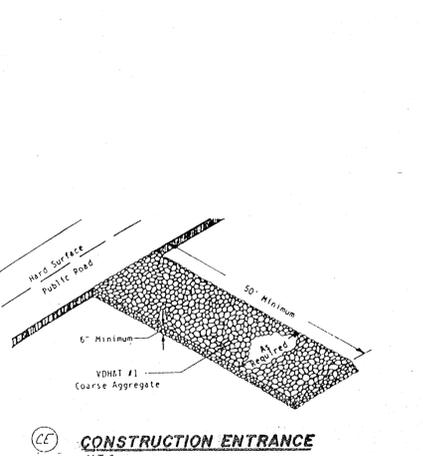
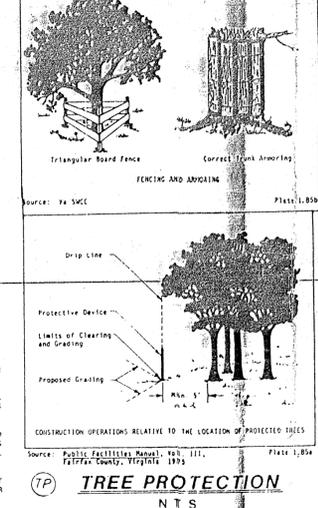
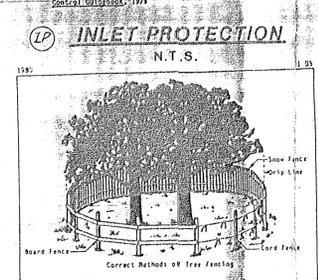
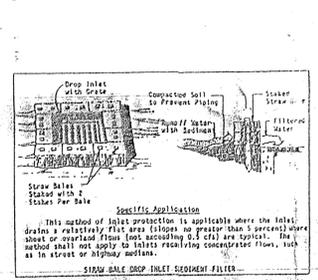
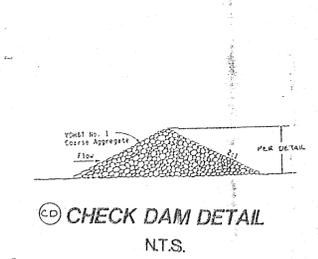
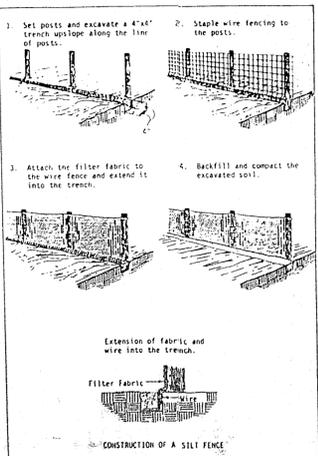
REVISED 5/29/92
 REVISED 3/13/92
 REVISED 8/14/91
 REVISED 5/22/91

- GENERAL NOTES**
- ALL WORK TO BE IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION, "ROAD AND BRIDGE SPECIFICATIONS", 1987 EDITION, AND THE VIRGINIA DEPARTMENT OF HIGHWAYS AND TRANSPORTATION, "ROAD DESIGN AND BRIDGE STANDARDS", 1989 UNLESS OTHERWISE NOTED.
 - WORK TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR IS DIRECTED TO NOTIFY ALL APPLICABLE OWNERS OF UTILITIES OF THE LIMITS OF HANGING CONSTRUCTION IN ORDER THAT THE UTILITY COMPANIES MAY SAFEGUARD THEIR FACILITIES.
 - THE CONTRACTOR TO STRIP TOPSOIL MATERIAL, WHERE APPROPRIATE, STRIP TOPSOIL TO BE STOCKPILED ON SITE AT LOCATIONS DESIGNATED BY OWNER. STRIPPING NOT TO BE CARRIED OUT WHEN SOIL IS ANOMALOUSLY WET. REMOVE ALL TRASH AND OTHER EXTRANEOUS MATTER FROM TOPSOIL WHEN STOCKPILED.
 - ALL STORM SEWER PIPES AND DRAIN INLETS TO BE CLEANED OF DEBRIS AND ERODED MATERIAL AT LAST STAGES OF CONSTRUCTION.
 - ALL MANHOLE RIMS TO BE SET FLUSH WITH GROUND, RIM ELEVATION MAY VARY SLIGHTLY TO SUIT EXISTING UNDISTURBED GROUND.
 - SURFACE DRAINAGE SHALL NOT BE ALLOWED TO ENTER SANITARY SEWER SYSTEM AT ANY TIME.
 - ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
 - WHERE SANITARY SEWER STUBS OR WATER SYSTEM PIPES ARE NOTED ON PLANS, CONTRACTOR TO MARK LOCATIONS DUPLICATED WITH 2" X 4" DRIVEN INTO GROUND. SEWER LATERALS ARE TO BE MARKED BY A CLEAN-OUT EXTENDING 6" ABOVE FINISHED GRADE.
 - ALL SANITARY SEWER CONSTRUCTION, MATERIALS AND STRUCTURES TO BE IN ACCORDANCE WITH SPECIFICATIONS, STANDARDS, AND DETAILS OF THE JAMES CITY SERVICE AUTHORITY.
 - ALL WATER FACILITIES SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE JAMES CITY SERVICE AUTHORITY.
 - ALL DRAINAGE STRUCTURES TO CONFORM TO VIRGINIA DEPARTMENT OF HIGHWAYS AND TRANSPORTATION, "ROAD DESIGN AND BRIDGE STANDARDS", 1989 UNLESS OTHERWISE INDICATED.
 - SELECT CLEARING AND GRUBBING TO CONSIST OF REMOVAL OF ALL TREES, BRUSH, STUMPS, AND SNAGS EXCEPT THOSE TREES DESIGNATED BY THE OWNER TO REMAIN. TREES DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE IN ACCORDANCE WITH SECTION 1.6 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
 - ALL STORM DRAINAGE PIPE LENGTHS SHALL INCLUDE END SECTIONS, WHERE REQUIRED.
 - SUBGRADE TO BE COMPACTED TO 95% DENSITY AT OPTIMUM MOISTURE. SHOULD SOFT ZONES OF SILT OR CLAY BE ENCOUNTERED, UNDISTURBED MINIMUM OF 12" REPLACE WITH 17" OF SAND-MINIMUM CB 15 AND COMPACT TO 95% DENSITY.

EROSION AND SEDIMENT NARRATIVE

THE PURPOSE OF THE EROSION CONTROL MEASURES SHOWN ON THESE PLANS SHALL BE TO PRECLUDE THE TRANSPORT OF ALL WATERBORNE EROSION PRODUCTS FROM CONSTRUCTION ACTIVITIES FROM AN EROSION ADJACENT PROPERTIES OR STATE WATERS. IF FIELD INSPECTION REVEALS THE NECESSITY FOR MODIFICATION OF THE EROSION CONTROL MEASURES, APPROPRIATE MODIFICATIONS WILL BE MADE TO CORRECT ANY PLAN DEFICIENCIES.

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. MAINTENANCE SHALL BE THOROUGHLY FAMILIAR WITH ALL APPLICABLE MEASURES CONTAINED THEREIN WHICH MAY BE PERTINENT TO THIS PROJECT.
- ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED BY A TEMPORARY CONSTRUCTION ENTRANCE TO PREVENT TRACKING OF MUD ONTO PUBLIC RIGHT-OF-WAYS. AN ENTRANCE PERMIT FROM VDOT IS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN STATE RIGHT-OF-WAYS.
- SEDIMENT CONTROL DEVICES, SUCH AS SEDIMENT BASINS AND TRAPS, PERIMETER DITCHES, CHECK DAMS OR OTHER MEASURES NOT LOCATED IN TO ALL OTHER LAND DISTURBED BY CONSTRUCTION. AN ON-SITE PRE-CONSTRUCTION MEETING WILL BE HELD BETWEEN THE DEPARTMENT OF CODE COMPLIANCE AND THE CONTRACTOR TO IDENTIFY THOSE MEASURES TO BE INITIALLY INSTALLED.
- MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. MAINTENANCE WILL INCLUDE THE REPAIR OF MEASURES DAMAGED BY ANY SUBCONTRACTOR INCLUDING THOSE OF THE PUBLIC UTILITY COMPANIES. AT THE PRECISE LOCATION OF THE MEASURES, THE CONTRACTOR WILL SUPPLY PUBLIC WORKERS WITH THE MEASURES OF THE INDIVIDUAL WHO WILL BE RESPONSIBLE FOR ENSURING MAINTENANCE OF INSTALLED MEASURES ON A DAILY BASIS.
- SURFACE FLOWING OVER CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER REDIRECTING FLOWS FROM TRANVERSING THE SLOPES OR BY INSTALLING MECHANICAL DEVICES TO SAFELY LOWER WATER DOWNWARD WITHOUT CAUSING EROSION. A TEMPORARY FILL DIVERSION DITCH, 6" SPEC. 1.18) SHALL BE INSTALLED PRIOR TO THE END OF EACH WORKING DAY.
- SEDIMENT CONTROL MEASURES MAY REQUIRE MINOR FIELD ADJUSTMENTS AT TIME OF CONSTRUCTION TO INSURE THEIR INTENDED PURPOSE IS ACCOMPLISHED. DEPARTMENT OF ENGINEERING APPROVAL WILL BE REQUIRED FOR OTHER DEVIATIONS FROM THE APPROVED PLANS.
- THE CONTRACTOR SHALL STRIP AND FILL TOPSOIL AT THE LOCATIONS SHOWN ON THIS PLAN OR AS DIRECTED BY THE ENGINEER. SILT FENCE SHALL BE PLACED AT THE TOE OF THE STOCKPILE AFTER STRIPPING TOPSOIL IS COMPLETE.
- THE CONTRACTOR SHALL COMPLETE DRAINAGE FACILITIES WITHIN 30 DAYS FOLLOWING COMPLETION OF ROUGH GRADING AT ANY POINT WITHIN THE PROJECT. THE INSTALLATION OF DRAINAGE FACILITIES SHALL TAKE PRECEDENCE OVER ALL UNDERGROUND UTILITIES. OUTFALL DITCHES FROM DRAINAGE STRUCTURES SHALL BE STABILIZED IMMEDIATELY AFTER CONSTRUCTION OF SAME. THIS INCLUDES INSTALLATION OF EROSION CONTROL STONE WHERE REQUIRED.
- TEMPORARY VEGETATIVE COVER SHALL BE PROVIDED IN ALL AREAS WHICH ARE NOT DESIGNED FOR PAVING, UNDERGROUND UTILITIES OR STRUCTURAL USES IN ACCORDANCE WITH SPECIFICATION 1.65. TEMPORARY SEEDING, SUCH AS STRAW, SHALL NOT BE EXPOSED FOR PERIODS EXCEEDING 30 DAYS. TEMPORARY VEGETAL COVER MAY BE ELIMINATED IN FAVOR OF FINAL VEGETAL COVER IF CONSTRUCTION AND SEASONAL CONDITIONS PERMIT.
- ALL AREAS DESIGNATED FOR PAVING, UNDERGROUND UTILITIES, AND STRUCTURAL USE SHALL BE STABILIZED AS SOON AS POSSIBLE, BUT NOT EXCEEDING 15 DAYS FOLLOWING INSTALLATION. NO MORE THAN 30% OF SANITARY SEWER, STORM SEWER, OR WATER LINES ARE TO BE OPEN AT ONE TIME.
- IF DISTURBED AREA STABILIZATION IS TO BE ACCOMPLISHED DURING THE MONTHS OF DECEMBER, JANUARY, OR FEBRUARY, STABILIZATION SHALL CONSIST OF MULCHING IN ACCORDANCE WITH SPECIFICATION 1.75. SEEDING WILL THEN TAKE PLACE AS SOON AS THE SEASON PERMITS.
- THE TERM SEEDING, FINAL VEGETATIVE COVER OR STABILIZATION, ON THIS PLAN SHALL MEAN THE SUCCESSFUL GERMINATION AND ESTABLISHMENT OF A STABLE GRASS COVER FROM A PROPERLY PREPARED SEEDING CONTAINING THE SPECIFIED AMOUNTS OF SEED LIME, PERMANENT AND FERTILIZER IN ACCORDANCE WITH SPECIFICATION 1.66. PERMANENT SEEDING, IRRIGATION SHALL BE REQUIRED AS NECESSARY TO ENSURE ESTABLISHMENT OF GRASS COVER.
- ALL SLOPES STEEPER THAN 3:1 SHALL REQUIRE THE USE OF EROSION CONTROL BLANKETS SUCH AS EXCESSION BLANKETS TO AID IN THE ESTABLISHMENT OF A VEGETATIVE COVER. INSTALLATION SHALL BE IN ACCORDANCE WITH SPECIFICATION 1.75. MULCHING AND MANUFACTURER'S INSTRUCTIONS.
- INLET PROTECTION IN ACCORDANCE WITH SPECIFICATION 1.08 SHALL BE PROVIDED FOR ALL STORM DRAIN INLETS AS SOON AS PRACTICAL FOLLOWING COMPLETION OF SAME.
- BASE COURSE MATERIAL SHALL BE PLACED IN ALL STREET AREAS WITHIN 30 DAYS OF FINAL GRADING.
- PAVED DITCHES SHALL BE REQUIRED WHEREVER EROSION IS EVIDENT. PARTICULAR ATTENTION SHALL BE PAID TO THOSE AREAS WHERE GRADES EXCEED 3%.
- TEMPORARY EROSION CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL ALL DISTURBED AREAS ARE STABILIZED. AFTER STABILIZATION IS COMPLETE, ALL MEASURES SHALL BE REMOVED WITHIN 30 DAYS. TRAPPED SEDIMENT SHALL BE SPREAD AND SEEDER.
- OFF-SITE WASTE OR BORROW AREAS SHALL BE APPROVED BY CHESTERFIELD COUNTY PRIOR TO THE IMPORT OF ANY BORROW OR EXPORT OF ANY WASTE TO OR FROM THE PROJECT SITE.



LANDSCAPE NOTES

1. ALL PLANTING SHALL BE IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION, "ROAD AND BRIDGE SPECIFICATIONS", 1987 EDITION, AND THE VIRGINIA DEPARTMENT OF HIGHWAYS AND TRANSPORTATION, "ROAD DESIGN AND BRIDGE STANDARDS", 1989 UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL PROVIDE ALL LARVAE, NESTS, ETC. NECESSARY TO GUARANTEE ALL PLANTING. A SHEET OF THIS DRAWING, IN SPECIFIC REFERENCE TO THE PLANTING, SHALL BE PROVIDED TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PLANTING MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PLANTING MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PLANTING MATERIAL.

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