CITY COUNCIL AGENDA ITEM COVER MEMO

Agenda Item Number_____

Meeting Type: Regular

Meeting Date: 6/14/2012

Action Requested By:
Engineering

Agenda Item Type
Resolution

Subject Matter:

Cooperative Public Right-of-Way Agreement

Exact Wording for the Agenda:

Resolution authorizing the Mayor to enter into an agreement with the Alabama Department of Transportation for a Cooperative Public Right-of-Way Agreement of Church Street from north of Pratt Avenue to Oakwood Avenue, Project No. STPHV-8540(600) & COH Project No. 65-05-RD13

Note: If amendment, please state title and number of the original

Item to be considered for: Action

Unanimous Consent Required: No

Briefly state why the action is required; why it is recommended; what Council action will provide, allow
and accomplish and; any other information that might be helpful.

Agreement is for maintenance of cross roads, service or frontage roads, etc. related to the construction of Church Street. Construction is by the Alabama Department of Transportation.

Associated Cost:

Budgeted Item: Select...

MAYOR RECOMMENDS ~~OR CONCURS~~: Select...

Department Head: _____

Date: 5/24/12

revised 3/12/2012

ROUTING SLIP
CONTRACTS AND AGREEMENTS

Originating Department: **Engineering** Council Meeting Date:

Department Contact: **Lynn Majors** Phone # **256-427-5201**

Contract or Agreement: **ALDOT Maintenance Agreement**

Document Name: **Church St Maint Agmt STPHV-8540(600) & 65-05-RD13**

City Obligation Amount: **0**

Total Project Budget: **0**

Uncommitted Account Balance: **0**

Account Number: **N/A**

Procurement Agreements

Not Applicable	**Not Applicable**

Grant-Funded Agreements

Not Applicable	**Grant Name:**

Department	Signature	Date
1) Originating		5/24/12
2) Legal	Mary C. Cass	5/31/12
3) Finance		6/4/12
4) Originating		
5) Copy Distribution		
a. Mayor's office (1 copies)		
b. Clerk-Treasurer (Original & 2 copies)		

RESOLUTION NO. 12-_____

WHEREAS, the City Council of the City of Huntsville (hereinafter at times referred to as Governmental Body) is desirous of having certain improvements made on Church Street in accordance with plans prepared by the Alabama Department of Transportation and designated as Project STPHV-8540(600) from North of Pratt Avenue to Oakwood Avenue.

WHEREAS, the Alabama Department of Transportation is now or may later be desirous of receiving Federal Aid for improvement of said highway; and

WHEREAS, the Federal Highway Administration, an agency of the United States of America, will not participate in any funding for the construction of said project until and unless the City will agree to certain requirements of the Federal Highway Administration. The City for the purpose of complying with requirements of the Federal Highway Administration in regard to its funding of improvements of the type and kind in this agreement provided for, does hereby pass and adopt the following resolution:

BE IT RESOLVED by the City Council of the City of Huntsville, that the plans of said project including alignment, profile, grades, typical sections and paving layouts as submitted to this City and which are now on file in the office of the City Clerk as hereby approved and that the location of said project as staked out by the Alabama Department of Transportation and as shown by said plans referred to are hereby approved and the Alabama Department of Transportation, in cooperation with the Federal Highway Administration, is hereby authorized to proceed with the grading, draining, paving, and otherwise improving and construction of said project in accordance with said plans.

The City by and through its City Council hereby grants to the Alabama Department of Transportation the full use of and access to the dedicated widths of any existing City streets for the construction of said project and hereby agrees to permit and allow the Alabama Department of Transportation to close and barricade the said project and intersecting City streets for as long as necessary while the said project is being graded, drained, paved, and otherwise improved, and hereby agrees that the use of any City street or highway for parking within an interchange area will not at any time be permitted.

The City hereby further agrees to adopt or pass such legally effective ordinances and/or laws as will permanently barricade and/or relocate certain intersecting streets as required by the State and to permanently deny or limit access at certain locations as required by the State along said

improvements, all of which are more specifically stated as follows: See Plans: STPHV-8540(600) [Sheets 4-7A and 17-19]. Please refer to: Traffic Control Notes [Sheet 2H]. Please refer to: Traffic Control Plans [Sheets 32-39]

BE IT FURTHER RESOLVED by the City Council that for and in consideration of the Alabama Department of Transportation in cooperation with the Federal Highway Administration, constructing said highway and routing traffic along the same through the City over said project, such City hereby agrees with the Alabama Department of Transportation and for the benefit of the Federal Highway Administration, that on the above mentioned project the City will not in the future permit encroachments upon the right of way; nor will it pass any ordinances or laws fixing a speed limit contrary to those limits provided for in Title 32, Chapter 5, Code of Alabama 1975, as amended, and other laws of Alabama; nor will it permit other than parallel parking in areas where parking is permitted; nor will it allow the placing of any informational, regulatory, or warning signs, signals, median crossover, curb and pavement or other markings, and traffic signals without written approval of the Alabama Department of Transportation and the Federal Highway Administration, of the location, form and character of such installations. The traffic control devices and signs installed during construction, and those installed after completion of this project, shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD)and accepted standards adopted by the Alabama Department of Transportation of the State of Alabama and by the Federal Highway Administration. The City further agrees that subsequent traffic control devices deemed necessary by it in keeping with applicable statues, rules and regulations to promote the safe and efficient utilization of the highway under the authority of Title 32, Chapter 5, Code of Alabama 1975, and all other applicable laws of Alabama, shall be subject to and must have the approval of the Alabama Department of Transportation of the State of Alabama and the Federal Highway Administration, prior to installation and the City further agrees that it will enforce traffic and control the same under the provisions of Title 32, Chapter 5, Code of Alabama 1975, and other applicable laws of Alabama.

BE IT FURTHER RESOLVED by this City Council:

1. That the City agrees to perform all maintenance on crossroads, service or frontage roads, service drives, or relocated roads that are not designated Federal or State highways that are in the jurisdiction of the City of Huntsville.

2. That the City agrees to perform all maintenance on any existing City road which has been replaced

by a new road, or, if the existing road is not used, the City has the option of vacating same.

3. That the N/A agrees to perform all maintenance on interchanges to the theoretical crossing of the denied access line.

4. That the N/A agrees to perform all maintenance on grade separations along the roadway to the end of the bridge, or the denied access fence, whichever the case.

It is understood and agreed that no changes in this Resolution of Agreement shall in the future be made without having obtained the prior approval of the Federal Highway Administration.

ADOPTED this the 14th day of June, 2012.

_____
President of the City Council of the City of Huntsville, Alabama

APPROVED this the 14th day of June, 2012.

_____
Mayor of the City of Huntsville, Alabama

ATTEST:

_____
City Clerk

STATE OF ALABAMA

COUNTY OF MADISON

I, Charles E. Hagood, City Clerk of the City of Huntsville, Alabama, do hereby certify the above and foregoing is a true and correct copy of a resolution duly adopted by the City Council of the City of Huntsville, Alabama at its regular meeting held on the 14th day of June, 2012, as the same appears in Minute Book_____, Page _____ of said City of Huntsville, Alabama.

Given under my hand and the corporate seal of the City of Huntsville, Alabama this the 14th day of June, 2012.

_____
City Clerk

REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO	LAST SHEET NO
STPHV-8540(600)	2012	1	98
PRELIMINARY PROJECT NO. STPAA-8450(600)			
CODE NO. 4303 HNTOA 100041621-2			

ALABAMA
DEPARTMENT OF TRANSPORTATION

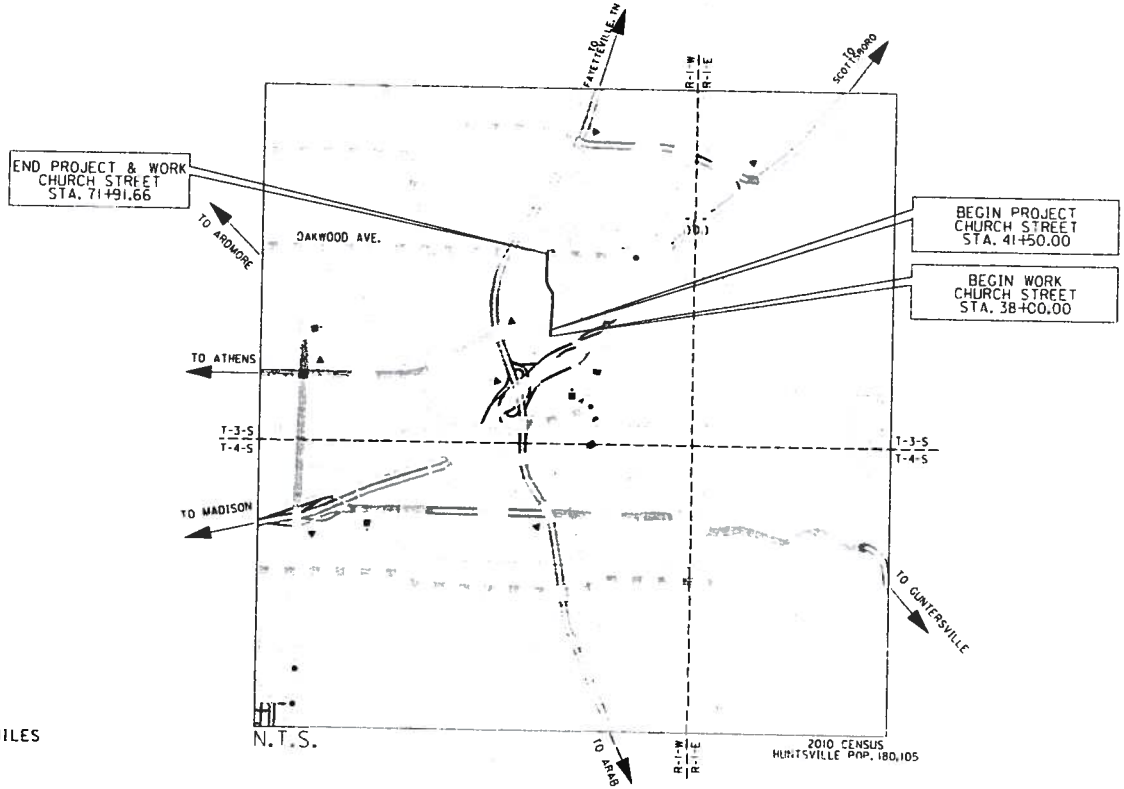
PLANS OF PROPOSED PROJECT NUMBER
STPHV-8540(600)

CHURCH STREET RELOCATION AND IMPROVEMENTS
FROM NORTH OF PRATT AVENUE TO OAKWOOD AVENUE
IN THE CITY OF HUNTSVILLE
GRADE, DRAIN, BASE & PAVE
MADISON COUNTY

DESIGN DESIGNATION

ADT	(2012)	8,716
ADT	(2032)	12,951
K	10%	
D	55%	
TDHV	5%	
TADT	6%	
V (DESIGN SPEED)		40 mph
MIN. STOPPING SIGHT DIST.		325.00'

NOTE: THESE PLANS HAVE BEEN PREPARED TO CONFORM WITH ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2012 EDITION.



EXIST BRIDGE:
NONE

REQUIRED BRIDGE:
NONE

EQUATIONS AND EXCEPTIONS:
NONE

CHURCH STREET	FEET	MILES
Total Stationing of Project	3041.66	
Equations & Exceptions	0.00	
Net Length of Project	3041.66	0.576
Net Length of Bridges	000.00	0.000
Net Length of Roadways	3041.66	0.576

ALABAMA DEPARTMENT OF TRANSPORTATION
Submitted for Approval

DIVISION ENGINEER

CHIEF ENGINEER
Approved

TRANSPORTATION DIRECTOR

PREPARED BY:
JOHNSON & ASSOCIATES, INC.

REGISTERED PROFESSIONAL ENGINEER

STATE OF ALABAMA

STANDARD DRAWINGS

THE FOLLOWING ARE SPECIAL OR STANDARD DRAWINGS CONTAINED IN THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS BOOK (U.S. CUSTOMARY UNITS OF MEASUREMENT) DATED 2012 WHICH APPLY TO THIS PROJECT:

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447	RPC-530 (SHEET 1 OF 2)	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS (AND H.D.P.E PIPE)
448	RPC-530 (SHEET 2 OF 2)	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS
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1314	SHS-14	STANDARD HIGHWAY SIGNS
1318	SHS-18	STANDARD HIGHWAY SIGNS
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1327	SHS-27	STANDARD HIGHWAY SIGNS

PLANS LEGEND SHEET

PROJECT NO	YEAR	NO
STPHV 8540(004)	2012	1 C

ROADWAY

55+00

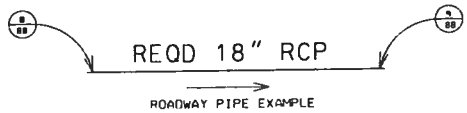
CENTER LINE
STATE BOUNDARY LINE
COUNTY BOUNDARY LINE
CITY OR TOWN LIMITS
SECTION LINES
QUARTER SECTION LINES
RANGE TOWNSHIP LINES
PROPERTY LINES
PRESENT ROW
ACQUIRED ROW
DENIED ACCESS
REQUIRED FENCE
CONSTRUCTION LIMITS
RAILROAD
WOOD FENCE
BARBED WIRE FENCE
CHAIN LINK FENCE
ELECTRIC FENCE
HOG WIRE FENCE
TREES
WOODS LINE
MARSH
IN-PLACE DITCH
REQUIRED DITCH
GRAVEL ROAD
EXISTING GUARDRAIL
REQUIRED GUARDRAIL
SATELLITE DISH
TRAFFIC LIGHT
BENCH MARK
SURVEY POINT

EXISTING PAVEMENT (RETAIN)
EXISTING PAVEMENT (REMOVE)
CONCRETE SHADING
RIP RAP SHADING

EXISTING PIPE
REQUIRED PIPE (WITH PET)
REQUIRED PET
EXISTING BOX CULVERT
REQUIRED BOX CULVERT
EXTENDED CULVERT
DROP INLET OR JUNCTION BOX (SEE PLANS DESCRIPTION)
BRIDGE
PIPE CULVERT (ELEVATION VIEW) .... FL=410.25
BOX CULVERT (ELEVATION VIEW) ..... FL=420.55

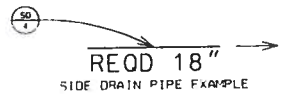
DRAINAGE STRUCTURE INDEX NUMBERS

DRAINAGE STRUCTURE WRITE-UPS ARE LOCATED ON THE DRAINAGE CROSS-SECTION SHEETS. STRUCTURES WITH WRITE-UPS ARE INDEXED AT EACH END, WITH NUMBERS ASSIGNED BY DIRECTION OF FLOW. THE NUMBER IN THE UPPER HALF OF THE CIRCLE (EXAMPLE 8 OR 9) IS THE DRAINAGE STRUCTURE INDEX NUMBER. THE NUMBER IN THE LOWER HALF (EXAMPLE 88) IS THE SHEET REFERENCE NUMBER.



ROADWAY PIPE EXAMPLE

ALL INFORMATION CONCERNING THE DISPOSITION OF SIDE DRAIN PIPE IS SHOWN ON THE SUMMARY OF QUANTITIES BOX SHEET. THE TOP LETTERS (SD) ARE FOR SIDE DRAIN AND THE BOTTOM NUMBER IS THE DRAINAGE STRUCTURE INDEX NUMBER.



SIDE DRAIN PIPE EXAMPLE

DIRECTION OF FLOW

UTILITIES

EXISTING | PROPOSED

POWER POLE
LIGHT POLE
TELEPHONE POLE
ANCHOR
STUB (POWER)
STUB (TELEPHONE)
ELECTRIC DUCT — EL 4MTO
DIRECT BURIAL ELECTRIC CABLE — BE
OVERHEAD ELECTRIC CABLE — OE
ELECTRIC MANHOLE — E
TOWER

TELEPHONE PEDESTAL — T
TELEPHONE DUCT — TO 4MTO
DIRECT BURIAL TELEPHONE CABLE — BTC
OVERHEAD TELEPHONE CABLE — OTC
TELEPHONE MANHOLE — TMH
SANITARY SEWER — SS
STORM SEWER — STM
SEWER MANHOLE
WATER LINE — W
WATER MAIN — WM
WATER VALVE
FIRE HYDRANT
WATER METER
GAS LINE — G
GAS MAIN — GM
GAS VALVE
GAS REGULATOR
DIRECT BURIAL CABLE TV — BTV
OVERHEAD CABLE TV — OTV

NO.	DATE	DESCRIPTION

DESIGNER
DRAWN BY
SUPERVISOR

ALABAMA DEPARTMENT OF TRANSPORTATION

SHEET TITLE
PLANS LEGEND SHEET

ROUTE

PLANS LEGEND SHEET

STPIN 8030(001) 2012 1 D

ABBREVIATIONS

ABANDONED	ABAN
ABUTMENT	ABUT
ACCELERATION	ACCL
ACQUIRED	ACQD
ACRE	AC
AHEAD	AH
ALABAMA	AL
ALABAMA DEPARTMENT OF TRANSPORTATION	ALDOT
ALTERNATE	ALT
APPROXIMATELY	APP
AREA	A
ASPHALT	ASP
AVERAGE ANNUAL DAILY TRAFFIC	AADT
BACK	BK
BACK OF GUARDRAIL	BK-GR
BACKSIGHT	BS
BARBED WIRE	B/W
BARREL	BBL
BARRIER	BAR
BASE LINE	BL or B
BEARING	BRNG
BEGIN	BEG
BEGINNING OF PROJECT	BOP
BETWEEN	BTW
BILLBOARD	BBD
BENCH MARK	BM
BITUMINOUS	BIT
BITUMINOUS COATED CORRUGATED METAL PIPE	BCCMP
BOUNDARY	BDY
BRIDGE	BRG
CAPACITY	CAPY
CAST IRON	CI
CAST IN PLACE	CIP
CATCH BASIN	CB
CENTER	C
CENTER LINE	C/L
CHAIN LINK	CLS
CLASS	CONC
CONCRETE	CONN
CONNECTION	CONST LIM
CONSTRUCTION LIMITS	COR
CORNER	CORR
CORRECTION	CORI
CORRUGATED IRON	CM
CORRUGATED METAL	CMP
CORRUGATED METAL PIPE	CPP
CORRUGATED PLASTIC PIPE	CO
COUNTY	CO-RD
COUNTY ROAD	CK
CREEK	X-SECT
CROSS SECTION	CR
CROWN REMOVED	FT3 or CU FT
CUBIC FEET	CFS
CUBIC FEET PER SECOND	YD3 or CU YD
CUBIC YARD	M3
CUBIC METERS	CULV
CULVERT	CULT
CULTIVATED	CF
CURB FACE	C&G
CURB AND GUTTER	C
CUT	CS
CURVE TO SPIRAL	DECEL
DECELERATION	DECL
DECLINATION	D
DEGREE OF CURVE	D/A
DENIED ACCESS	DEP
DEPARTURE	DIA
DIAMETER	DIR
DIRECTION	DIST
DISTANCE	DBL
DOUBLE	CD
DOUBLE BARREL CULVERT	DA
DRAINAGE AREA	DR
DRIVE	DI
DROP INLET	EQ
EACH	ESMT
EASEMENT	E
EAST	EBR
EAST BOUND ROADWAY	EP
EDGE OF PAVEMENT	EL or ELEV
ELEVATION	ER
END OF RETURN	E/A
END ANCHOR	EOP
END OF PROJECT	EQ
EQUATION	EXCAV
EXCAVATION	EX
EXISTING	EXP
EXPANSION	EXT
EXTENSION	E
EXTERNAL	EXT STR
EXTRA STRENGTH	FT
FEET	F
FILL	FLT BLNK
FILTER BLANKET	FG
FINISHED GRADE	FS
FINISHED SURFACE	FY
FISCAL YEAR	FIX
FIXED	FB
FLAT BOTTOM	FL or R
FLOW LINE	

FORESIGHT OR FRONTSIGHT	FST
FRACTIONAL	FRAC
FULL SUPERELEVATION	FS
GALLON	GAL
GASOLINE PIPES	GPP
GARAGE	GAR
GAUGE	GA
GIRDER	GDR
GOVERNMENT	GOV
GRASS	GRS
GRADE CHANGE	GC
GRADE POINT	GP
GRADE ROD	GRD
GRAVEL	GRV
GUARDRAIL	GR
HEADWALL	HDWL
HECTARE	HA
HIGH WATER MARK	HWM
HEIGHT	HT
HEIGHT OF INSTRUMENT	HI
HIGH WATER	HW
HIGHWAY	HWY
HOGWIRE	H/W
HORIZONTAL	HOR
HUB & TACK	H&T
HYDRANT	HYD
IMPACT ATTENUATOR	IA
IN ACCORDANCE WITH	I/A/W
IN PLACE	IN-PL
INCHES	IN.
INCLUDING	INCL
INSTRUMENT	INST
ISLAND	ISL
JOINT	JT
JUNCTION	JCT
JUNCTION BOX	JB
KILOMETER	KM
KILOMETER POST	KMP
KILOMETERS PER HOUR	KPH
LANE	LN
LATITUDE	LAT
LEFT	LT
LEFT AHEAD	LA
LEFT BACK	LB
LENGTH OF CURVE	L
LINK	LK
LIMIT	LIM
LINEAR	LIN
LINEAR FEET	LIN FT
LONGITUDE	LONG
MANHOLE	MH
MARKER	MRK
MAXIMUM	MAX
MEAN HIGH WATER	MHW
MEAN LOW WATER	MLW
MEASUREMENT	MEAS
MEDIAN	MED
METER	M
MERIDIAN	MER
MILE POST	MP
MILES	MI
MILES PER HOUR	MPH
MILLIMETER	MM
MINIMUM	MIN
MONUMENT	MON
MULTIPLE	MULT
NORMAL	NORM
NORMAL CROWN	NC
NORMAL CROWN SLOPE	NCS
NORTH	N
NORTH BOUND ROADWAY	NBR
NORTHING-EASTING	NE
NOT IN CONTRACT	NIC
NOT TO SCALE	NTS
NUMBER	NO
OBSERVATION	OBS
ON CENTER	OC
ORIGINAL	ORIG
OVERHEAD	OHD
OVERHAUL	OH
OUT TO OUT	OO
PAINT	PNT
PAVED	PVD
PAVED SHOULDER	PVD SH
PAVEMENT	PVMT
PIPE END TREATMENT	PET
PIPE ENTERING CULVERT	PEC
PLATE GIRDER	PL GDR
POINT OF BEGINNING	POB
POINT OF COMPOUND CURVE	PCC
POINT OF CURVATURE	PC
POINT OF REVERSE CURVATURE	PRC
POINT OF ENDING	POE
POINT OF INTERSECTION	PI
POINT OF TANGENCY	PT
POINT ON CURVE	POC
POUND	LB
PRESENT	PRES
PROFILE GRADE	PG

PROJECT	PROJ
PROJECT CONTROL	PJC
PROPERTY LINE	#
PROPOSED	PROP
QUADRUPLE	QUAD
QUADRUPLE BARREL CULVERT	CQ
QUANTITY	QUANT
RADIUS	R
RAILROAD	RR
RANGE	RGE
RECORD	REC
REDUCTION	RED
REFERENCE	REF
REFERENCE POINT	RP
REFERENCE POINT FOR POINT ON TANGENT	RPPOT
REINFORCED	REINF
REINFORCED CONCRETE	RC
REINFORCED CONCRETE DECK GIRDER	RCDG
REINFORCED CONCRETE PIPE	RCP
REINFORCING STEEL	REINF STL
RELOCATE	RELC
REMOVE	REM
REQUIRED	REQD
RETAINING	RET
REVERSE CROWN	RC
REVISION	REV
RIGHT	RT
RIGHT AHEAD	RA
RIGHT BACK	RB
RIGHT OF WAY	ROW
RIGHT OF WAY MARKER	ROWM
RIVER	RIV
ROAD	RD
ROADWAY	ROWY
ROLLED EROSION CONTROL PRODUCT	RECP
SECTION	SEC
SERVICE ROAD	SER RD
SHEET	SHT
SHEET PILING	SHT PILE
SHOULDER	SHLD
SIDE DRAIN	SD
SIDEWALK	SW
SIGHT DISTANCE	S DIST
SINGLE BARREL CULVERT	CS
SKEW	SK
SLOPE STAKE	SST
SOLID SODDING	SOL SOD
SOUTH	S
SOUTH BOUND ROADWAY	SBR
SPECIAL	SP
SPECIAL DITCH	SP-DT
SPECIAL DITCH LEFT	SDL
SPECIAL DITCH MEDIAN	SDM
SPECIAL DITCH RIGHT	SDR
SPECIAL DRAWING	SP DWG
SPECIFICATIONS	SPEC
SPRING LINE	SL
SPIRAL TO CURVE	SC
SPIRAL POINT OF INTERSECTION	SPI
SPIRAL TO TANGENT	ST
SQUARE	SQ
SQUARE FEET	FT2 or SQ FT
SQUARE METERS	M2
SQUARE YARD	YD2 or SQ YD
STAKE	STK
STANDARD	STD
STANDARD DRAWING	STD-DWG
STANDARD STRENGTH	STD STR
STATION	STA
STATION & ELEVATION	S/E
STATION & OFFSET	SO
STOPPING SIGHT DISTANCE	SSD
STREET	ST
STRUCTURE	STR
SUB-GRADE	SG
SUPERELEVATION	SE, se or e
SURVEY	SRV
SYMMETRICAL	SYM
TANGENT	TAN
TANGENT LENGTH (CURVE DATA)	T
TANGENT TO SPIRAL	TS
TEMPORARY	TEMP
TEMPORARY BENCH MARK	TBM
THROAT	TH
TOWNSHIP	TSHP
TRIPLE	TR
TRIPLE BARREL CULVERT	CT
TURN OUT	TO
TURNING POINT	TP
TYPE	TY
UNIT	U
UNPAVED	UNPVD
VALLEY GUTTER	VG
VARIABLE	VAR
VERTICAL	VERT
VERTICAL CURVE	VC
VERTICAL POINT OF CURVATURE	PVC
VERTICAL POINT OF INTERSECTION	PVI
VERTICAL POINT OF TANGENCY	PVT
VITRIFIED	VIT

VOLUME	VOL
WEST	W
WEST BOUND ROADWAY	WBR
WING WALL	WW
WITNESS CORNER	WC
WOOD	WD
WORKING POINT	WP
WOVEN WIRE	W/W
YARD	YD

STRUCTURES

NUMBER OF STORIES	1, 2, 3, 4
FRAME	FR
BUILDING	BLDG
BLOCK	BLK
BRICK	BR
STUCCO	STU
METAL	MET
RESIDENCE	RES
BUSINESS	BUS
WAREHOUSE	WHSE
CHICKEN HOUSE	CH HSE
CHURCH	CH
SCHOOL	SCH
DOUBLE WIDE MOBILE HOME	DW MH
MOBILE HOME	MH

UTILITIES

ANCHOR WIRE	AW
BURIED ELECTRIC	BE
BURIED FIBER OPTIC	BFO
BURIED TELEPHONE CABLE	BTC
BURIED CABLE TELEVISION	BTV
CAST IRON	CI
CIRCUIT	CKT
DUCTILE IRON	DUC IRON
EASEMENT	ESMT
FIBER OPTIC	FO
FIRE HYDRANT	FH
FORCED MAIN (SANITARY SEWER)	FM
GAS MAIN	GM
GAS METER	GMET
GAS VALVE	GV
GUY WIRE	GUY
KILOVOLT AMPS	KVA
MANHOLE	MH
MERCURY VAPOR LIGHT	MVL
OVERHEAD FIBER OPTIC	OFO
OVERHEAD TELEPHONE CABLE	OTC
OVERHEAD ELECTRIC CABLE	OE
OVERHEAD CABLE TELEVISION	OTV
PAIR	PR
PEDESTAL	PED
POLY-VINYL CHLORIDE PIPE	PVC
POWER POLE	PP
SANITARY SEWER	SS
SERVICE	SERV
STEEL	STL
STORM DRAIN	STM
STORM SEWER	STMS
SWITCH	SW
TELEPHONE	TEL
TELEPHONE MANHOLE	TMH
TRANSFORMER	TRAN
TRANSMISSION LINE	TR LN
TRIAXIAL CABLE (SERVICE)	TRIX
VITRIFIED CLAY PIPE	VCP
WATER MAIN	WM
WATER METER	WMET
WATER VALVE	WV

PROPERTY

DEED BOOK	DB
REAL PROPERTY BOOK	RP
PLAT BOOK	PB
MAP BOOK	MB
PAGE	PG
OFFICIAL RECORD	OR
CAPPED (TYPICAL PLASTIC SURVEYORS CAP)	CAP
ALUMINUM CAP	ALUM CAP
BRASS CAP	BR CAP
IRON PIPE	IP
CRIMPED	CR
REINFORCING STEEL	REBAR
CONCRETE MONUMENT	CM
DAMAGED	DAM
CHISELED X	CH 'X'
HUB AND TACK	H&T
NAIL AND BOTTLE TOP	N&BT
PARKER-KALON (MASONARY NAILS)	PK NAIL
FENCE POST	F-POST
RAILROAD IRON	RR IRON
COTTON SPINDLE	COT SP
ANGLE IRON	ANGLE IRON

NO	DATE	DESCRIPTION

DESIGNER

SUPERVISOR

ALABAMA DEPARTMENT OF TRANSPORTATION

SHEET TITLE
PLANS LEGEND SHEET

ROUTE

COORDINATE LIST

PROJECT NO. STPHV 8540(600) MADISON COUNTY

℄ COORDINATE LISTING
CHURCH STREET

CENTERLINE OF	STATION	ID	NORTHING	EASTING
CONST.	37+37.00	POB	1543459.42	427884.97
CONST.	41+01.00	PI	1543820.75	427928.92
CONST.	43+47.56	PC	1544065.51	427958.69
CONST.	46+25.64	PI	1544341.55	427992.27
CONST.	48+94.07	PT	1544604.22	427901.01
CONST.	52+48.28	PC	1544938.82	427784.76
CONST.	54+76.79	PI	1545154.67	427709.77
CONST.	56+99.89	PT	1545382.98	427719.36
CONST.	71+91.66	POE	1546873.43	427781.94

℄ COORDINATE LISTING
ORCHARD STREET

CENTERLINE OF	STATION	ID	NORTHING	EASTING
CONST.	2+70.03	POB	1544677.19	427995.41
CONST.	2+97.35	PC	1544704.50	427996.31
CONST.	3+27.49	PI	1544734.62	427997.30
CONST.	3+57.61	PT	1544764.75	427996.48
CONST.	4+05.11	PC	1544812.23	427995.18
CONST.	4+39.35	PI	1544846.46	427994.24
CONST.	4+73.56	PT	1544880.67	427995.65
CONST.	9+44.59	POE	1545351.30	428015.01

℄ COORDINATE LISTING
DEMASTERS AVENUE

CENTERLINE OF	STATION	ID	NORTHING	EASTING
CONST.	0+5.00	POB	1545755.56	427439.88
CONST.	3+00.00	POE	1545752.11	427734.85

℄ COORDINATE LISTING
FREDERICK AVENUE

CENTERLINE OF	STATION	ID	NORTHING	EASTING
CONST.	1+00.00	POB	1545007.01	428000.85
CONST.	2+02.18	POE	1545004.15	428102.98

℄ COORDINATE LISTING
PEARL AVENUE

CENTERLINE OF	STATION	ID	NORTHING	EASTING
CONST.	0+48.23	POB	1545249.23	427469.66
CONST.	3+00.00	PI	1545246.21	427721.42
CONST.	5+89.07	POE	1545239.75	428010.42

℄ COORDINATE LISTING
OAKWOOD AVENUE

CENTERLINE OF	STATION	ID	NORTHING	EASTING
CONST.	24+60.22	POB	1546885.56	427242.29
CONST.	32+99.81	PI	1546866.69	428081.68
CONST.	35+15.99	POE	1546857.05	428297.64

BENCH MARKS WITH DESCRIPTIONS

BM #7 - RR SPIKE IN WOODEN POWER POLE LOCATED ON THE EAST SIDE OF ORCHARD STREET NEAR THE NORTHWEST CORNER OF A TWO STORY APARTMENT COMPLEX AT 800 ORCHARD STREET.
CHURCH ST. STA. 47+42.12, RT. 66.20'
N=1544471.607
E=428006.602
EL.=627.16'

BM #9 - RR SPIKE SET IN A WOODEN POWER POLE LOCATED ON THE SOUTH SIDE OF PEARL AVENUE NEAR THE NORTHEAST CORNER OF THE PROPERTY AT 625 PEARL AVENUE
PEARL AVENUE STA. 1+38.15, RT. 26.24'
N=1545221.908
E=427559.265
EL.=629.27'

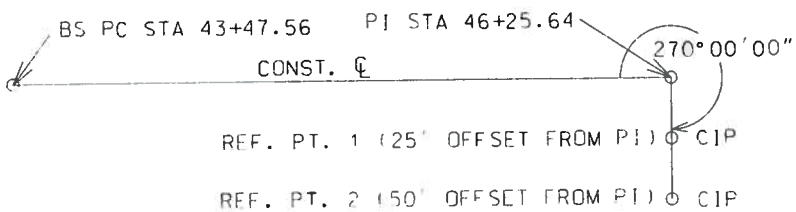
BM #11 - RR SPIKE SET IN A WOODEN POWER POLE LOCATED ON THE NORTH SIDE OF OAKWOOD AVENUE. SAID POLE IS NEAR THE SOUTHEAST PROPERTY CORNER OF A LIBERTY GAS STATION DIRECTLY NORTH OF HUNDLEY DRIVE.
OAKWOOD AVE. STA. 30+12.00, LT. 29.15'
N=1546901.894
E=427794.774
EL.=635.31'

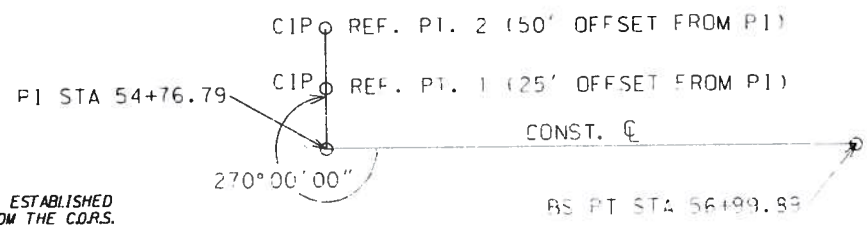
TP #9363 - P.K. NAIL WITH WASHER SET ALONG THE SOUTH EDGE OF PAVEMENT OF PEARL AVENUE NEAR THE INTERSECTION OF THE EAST EDGE OF PAVEMENT OF HUNDLEY DRIVE.
N=1545237.357
E=427770.319
EL.=627.80'

TP #9364 - P.K. NAIL WITH WASHER SET ALONG THE NORTHWEST INTERSECTION OF THE EDGES OF PAVEMENT OF HUNDLEY DRIVE AND DEMASTERS AVENUE.
N=1545763.062
E=427721.189
EL.=628.42'

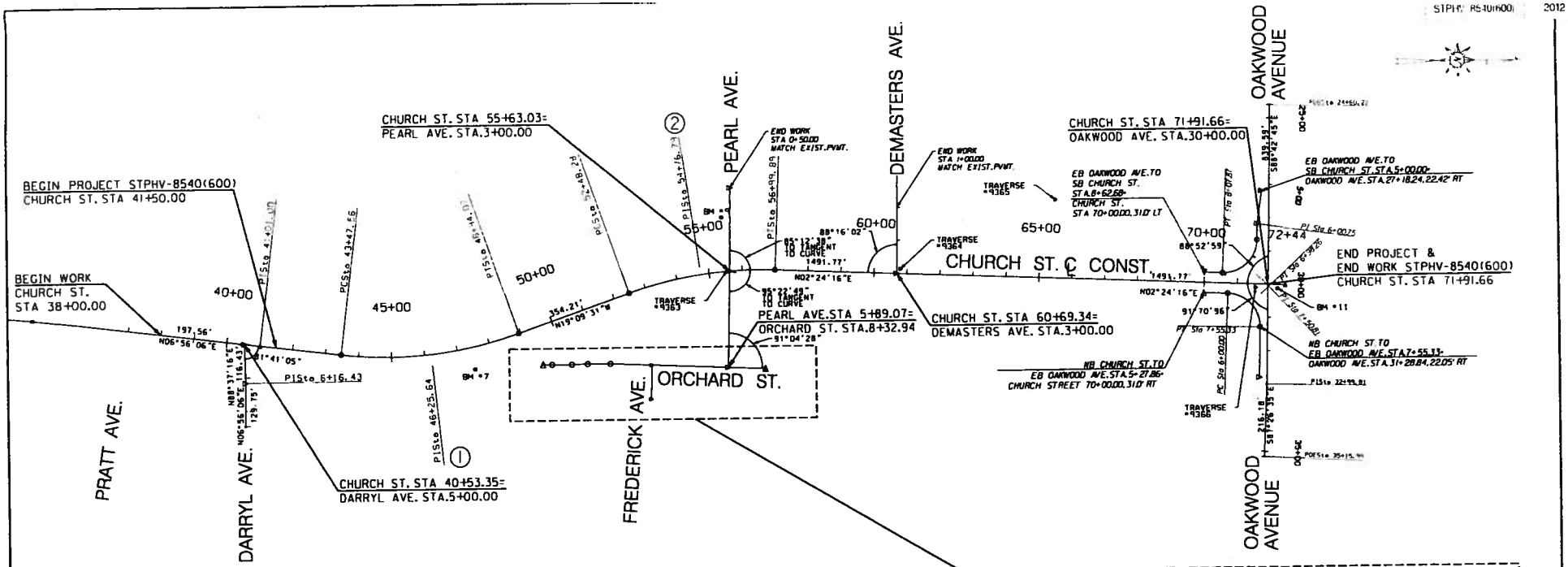
TP #9365 - P.K. NAIL WITH WASHER SET ALONG THE WEST EDGE OF PAVEMENT NEARLY IN LINE WITH THE NORTH EDGE OF AN EXISTING LOADING DOCK ON THE WEST SIDE OF HUNDLEY DRIVE.
N=1546312.207
E=427745.678
EL.=630.57'

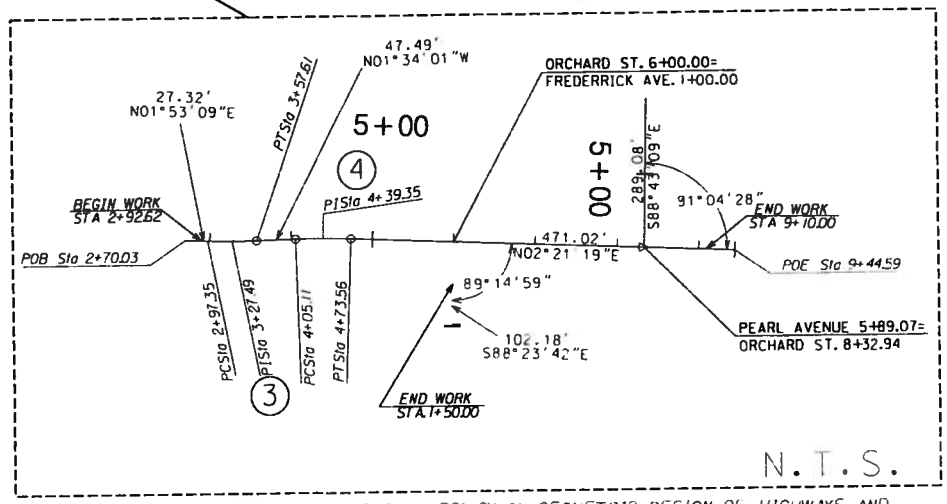
TP #9366 - P.K. NAIL WITH WASHER SET ALONG THE EAST EDGE OF PAVEMENT OF HUNDLEY DRIVE NEAR THE INTERSECTION OF HUNDLEY DRIVE AND OAKWOOD AVENUE.
N=1546836.292
E=427791.231
EL.=633.14'





NOTE: ALL COORDINATES ARE STATE PLANE COORDINATES. THE HORIZONTAL AND VERTICAL CONTROL POINTS WERE ESTABLISHED RELATIVE TO CITY OF HUNTSVILLE G.P.S. MONUMENTATION. THESE MONUMENTS HAVE BEEN FOUND TO DIFFER FROM THE C.O.R.S. NETWORK AND ARE NOT A PART OF ANY RECOGNIZED DATUMS.





① CHURCH STREET #1
PI-Sta 46+25.64
T-278.07'
L-546.51'
E-31.80'
R-1200.00'
D-04° 46'29"
Delta-26° 05'37" Left
e-3.2%

② CHURCH STREET #2
PI-Sta 54+76.79
T-228.51'
L-451.61'
E-21.56'
R-1200.00'
D-04° 46'29"
Delta-21° 33'46" Right
e-3.2%

③ ORCHARD STREET #3
PI-Sta 3+27.49
T-30.14'
L-60.26'
E-0.54'
R-1000.00'
D-05° 43'46"
Delta-03° 27'10" Left
e - NC

④ ORCHARD STREET #4
PI-Sta 4+39.35
T-34.24'
L-68.46'
E-0.57'
R-1000.00'
D-05° 43'46"
Delta-03° 55'20" Right
e - NC

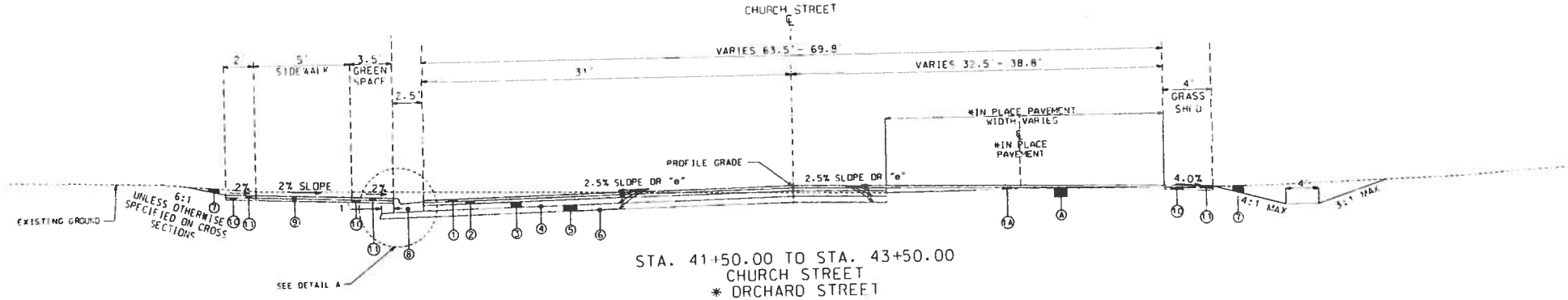
150 0 150 300 600
SCALE IN FEET

NOTE: SUPERELEVATION TABLE FROM A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS FOR MAX. SUPERELEVATION OF .04 WAS USED IN SUPERELEVATION CALCULATIONS.

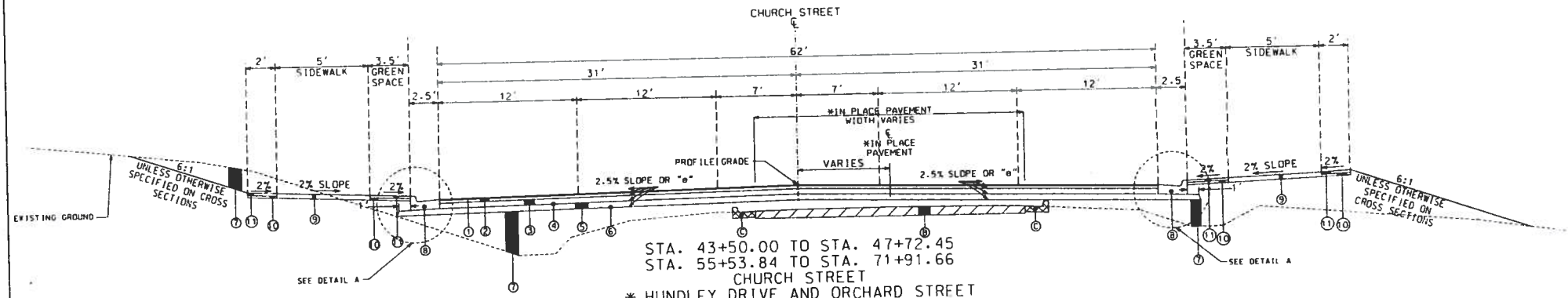
GEOMETRIC LAYOUT SHEET

PROJECT NO. STPHV-85(00)
MADISON COUNTY

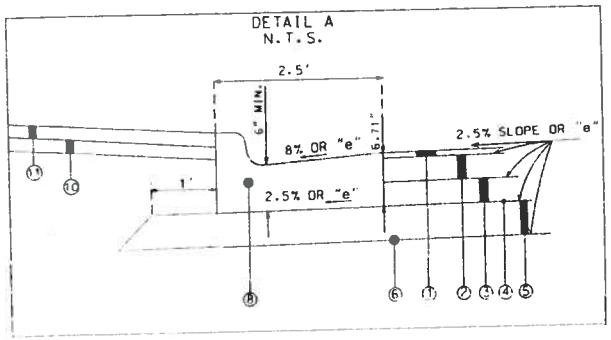
GN-2 NOTES
107. 116



STA. 41+50.00 TO STA. 43+50.00
CHURCH STREET
* ORCHARD STREET



STA. 43+50.00 TO STA. 47+72.45
STA. 55+53.84 TO STA. 71+91.66
CHURCH STREET
* HUNDLEY DRIVE AND ORCHARD STREET

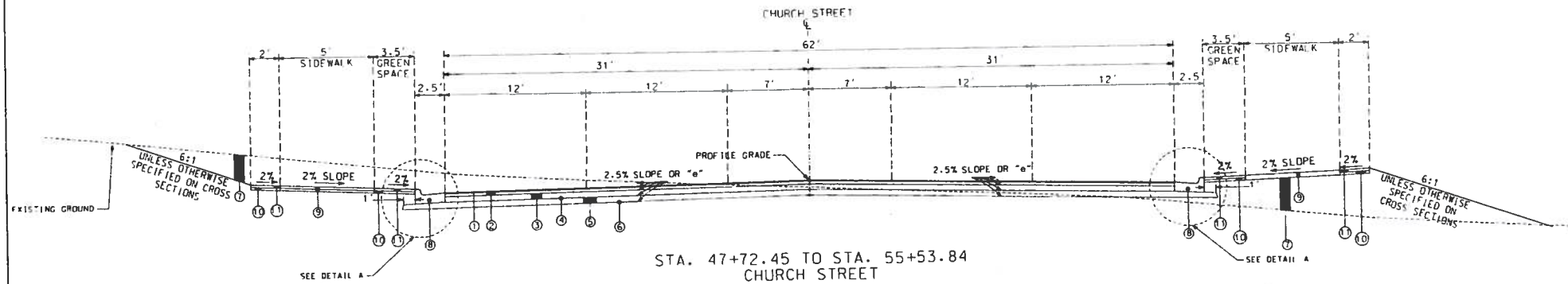


REQ'D MATERIALS LEGEND

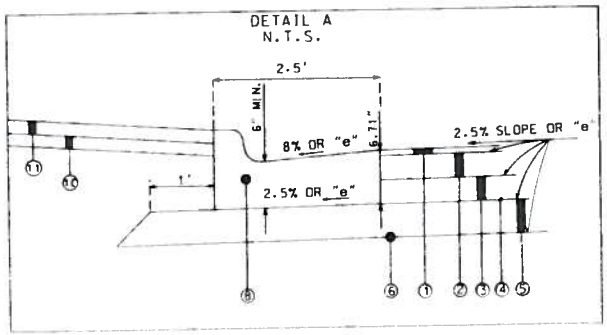
1. REQ'D 424A-360 SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER. 1/2" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 140#/SY)
1A. REQ'D 424A-366 SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER. Leveling 1/2" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 0-350#/SY)
2. REQ'D 424B-651 SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 280#/SY)
3. REQ'D 424C-360 SUPERPAVE BITUMINOUS CONCRETE BASE LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 325#/SY)
4. REQ'D 401A-000 Bituminous TREATMENT A (69' WIDE)
5. REQ'D 301A-008 CRUSHED AGGREGATE BASE COURSE. TYPE B. PLANT MIXED. 5" COMPACTED THICKNESS (69' WIDE)
6. REQ'D 230A-000 ROADBED PROCESSING
7. REQ'D 210A-000 UNCLASSIFIED EXCAVATION
8. REQ'D 623C-000 COMBINATION CURB & GUTTER. TYPE "C"
9. REQ'D 618A-000 CONCRETE SIDEWALK. 4" THICK (5' WIDE)
10. REQ'D 650B-000 TOPSOIL FROM STOCKPILES
11. REQ'D 654A-001 SOLID SODDING (BERMUDA)

A. IN PLACE PAVEMENT (RETAIN)
B. IN PLACE PAVEMENT (REMOVE)(3-6 INCH THICKNESS)
C. IN PLACE CURB & GUTTER (HUNDLEY DRIVE) (REMOVE)

N.T.S.



STA. 47+72.45 TO STA. 55+53.84
CHURCH STREET



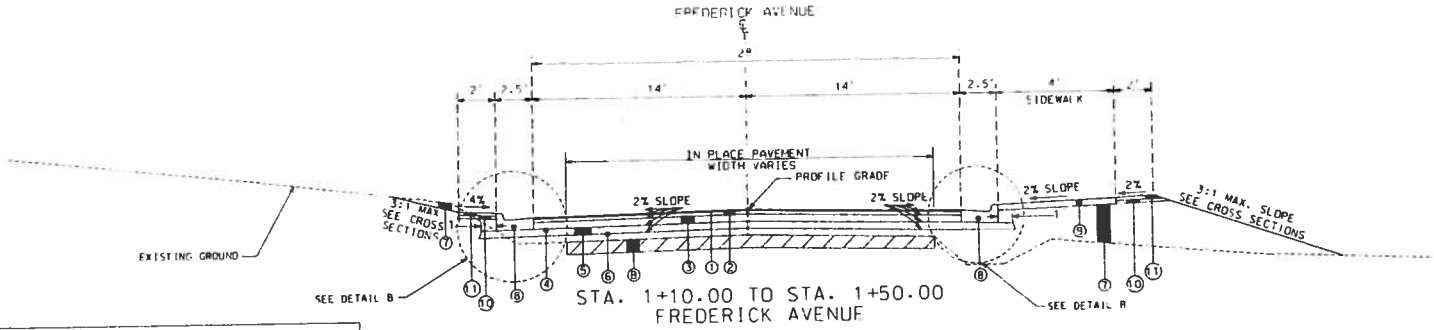
REQ'D MATERIALS LEGEND

1. REQ'D 424A-360 SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER. ½" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 140#/SY)
2. REQ'D 424B-651 SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 280#/SY)
3. REQ'D 424C-360 SUPERPAVE BITUMINOUS CONCRETE BASE LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 325#/SY)
4. REQ'D 401A-000 BITUMINOUS TREATMENT A (69' WIDE)
5. REQ'D 301A-008 CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (69' WIDE)
6. REQ'D 230A-000 ROADBED PROCESSING
7. REQ'D 210A-000 UNCLASSIFIED EXCAVATION
8. REQ'D 623C-000 COMBINATION CURB & GUTTER, TYPE "C"
9. REQ'D 618A-000 CONCRETE SIDEWALK, 4" THICK (5' WIDE)
10. REQ'D 650B-000 TOPSOIL FROM STOCKPILES
11. REQ'D 654A-001 SOLID SODDING (BERMUDA)

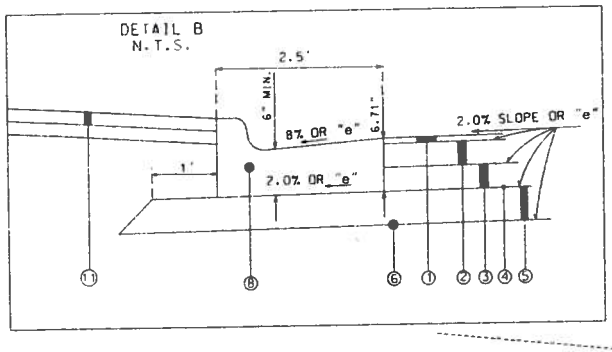
N.T.S.

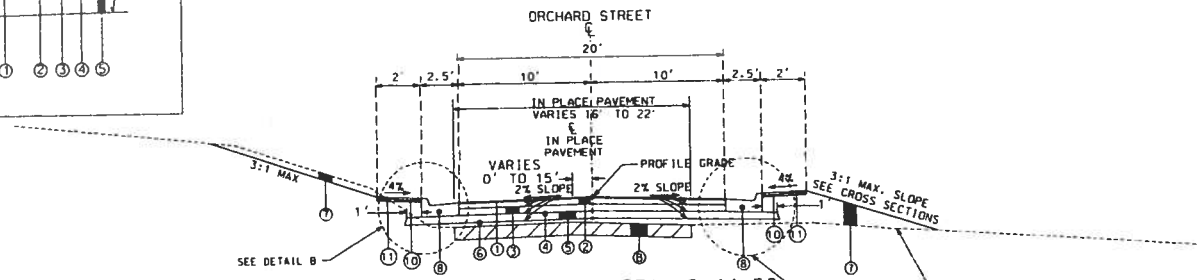
PROJECT NO. STPHV-8540(000)
MADISON COUNTY

GN-2 NOTES
116



STA. 1+10.00 TO STA. 1+50.00
FREDERICK AVENUE



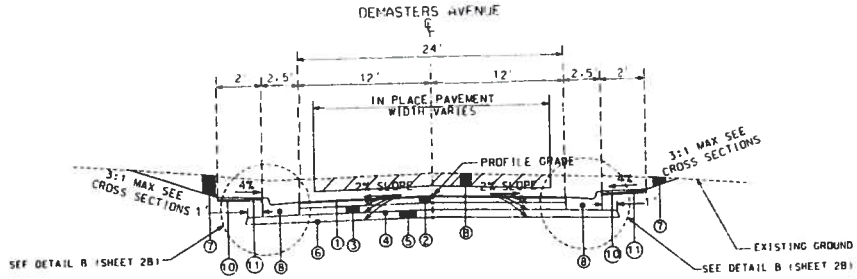


STA. 2+92.62 TO STA. 9+44.58
ORCHARD STREET

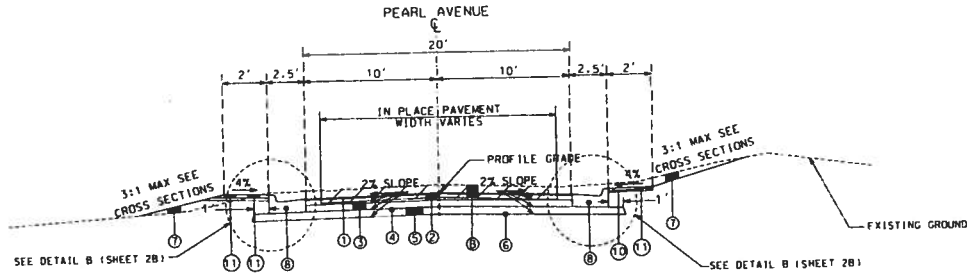
REQ'D MATERIALS LEGEND

1. REQ'D 424A-360 SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER. ½" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 140#/SY)
2. REQ'D 424B-651 SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 280#/SY)
3. REQ'D 424C-360 SUPERPAVE BITUMINOUS CONCRETE BASE LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 325#/SY)
4. REQ'D 401A-000 BITUMINOUS TREATMENT A (27' TO 107' WIDE)
5. REQ'D 301A-008 CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED. 5" COMPACTED THICKNESS (27' TO 107' WIDE)
6. REQ'D 230A-000 ROADBED PROCESSING
7. REQ'D 210A-000 UNCLASSIFIED EXCAVATION
8. REQ'D 623C-000 COMBINATION CURB & GUTTER, TYPE "C"
9. REQ'D 618A-000 CONCRETE SIDEWALK, 4" THICK (5' WIDE)
10. REQ'D 650B-000 TOPSOIL FROM STOCKPILES
11. REQ'D 654A-001 SOLID SODDING (BERMUDA) (24" WIDE)
8. IN PLACE PAVEMENT (REMOVE) (3-6 INCH THICKNESS)

N.T.S.



STA. 0+05.00 TO STA 2+68.98
DEMASTERS AVENUE



STA. 0+50.00 TO STA. 2+69.52
STA. 3+31.87 TO STA. 5+79.07
PEARL AVENUE

REQ'D MATERIALS LEGEND

1. REQ'D 424A-360 SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER. 1/2" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 140#/SY)
2. REQ'D 424B-651 SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 280#/SY)
3. REQ'D 424C-360 SUPERPAVE BITUMINOUS CONCRETE BASE LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 325#/SY)
4. REQ'D 401A-000 BITUMINOUS TREATMENT A (27' & 31' WIDE)
5. REQ'D 301A-008 CRUSHED AGGREGATE BASE COURSE. TYPE B. PLANT MIXED. 5" COMPACTED THICKNESS (27' & 31' WIDE)
6. REQ'D 230A-000 ROADBED PROCESSING
7. REQ'D 210A-000 UNCLASSIFIED EXCAVATION
8. REQ'D 623C-000 COMBINATION CURB & GUTTER. TYPE "C"
10. REQ'D 650B-000 TOPSOIL FROM STOCKPILES
11. REQ'D 654A-001 SOLID SODDING (BERMUDA) (24" WIDE)
B. IN PLACE PAVEMENT (REMOVE) (3-6 INCH THICKNESS)

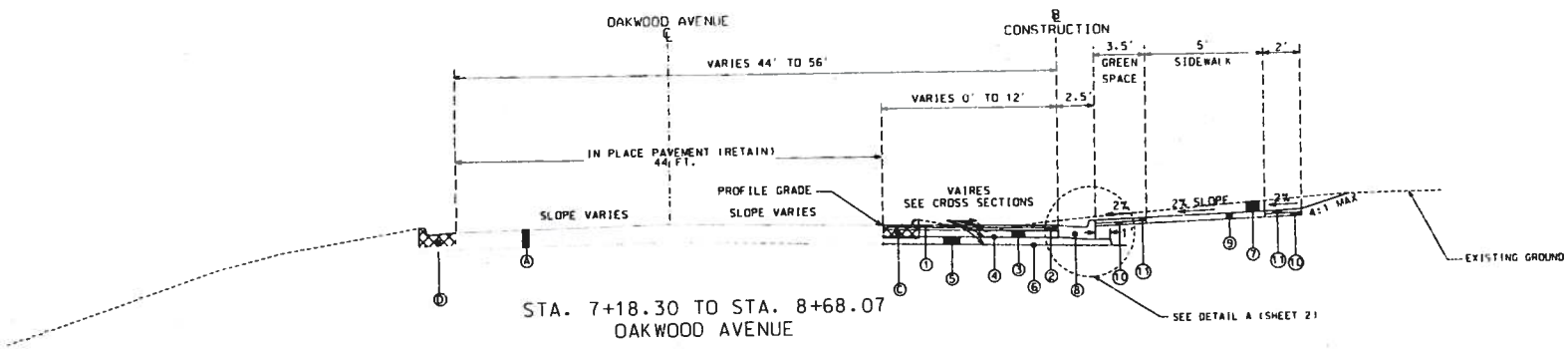
N.T.S.

TYPICAL SECTIONS

PROJECT NO. STPHV-8540(600)
MADISON COUNTY

PROJECT NOTES
202, 203

GN-2 NOTES
107, 116



STA. 7+18.30 TO STA. 8+68.07
OAKWOOD AVENUE

OAKWOOD AVENUE TURN LANE TAPER		
STATION	TO	STATION
7+18.30		8+18.30

REQ'D MATERIALS LEGEND

① REQ'D 424A-360 SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER. ½" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 140#/SY)
② REQ'D 424B-651 SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 280#/SY)
③ REQ'D 424C-360 SUPERPAVE BITUMINOUS CONCRETE BASE LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 325#/SY)
④ REQ'D 401A-000 BITUMINOUS TREATMENT A (3.5' TO 15.5' WIDE)
⑤ REQ'D 301A-008 CRUSHED AGGREGATE BASE COURSE. TYPE B. PLANT MIXED. 5" COMPACTED THICKNESS (3.5' TO 15.5' WIDE)
⑥ REQ'D 230A-000 ROADBED PROCESSING
⑦ REQ'D 210A-000 UNCLASSIFIED EXCAVATION
⑧ REQ'D 623C-000 COMBINATION CURB & GUTTER. TYPE "C"
⑨ REQ'D 618A-000 CONCRETE SIDEWALK. 4" THICK (5' WIDE)
⑩ REQ'D 650B-000 TOPSOIL FROM STOCKPILES
⑪ REQ D 654A-001 SOLID SODDING (BERMUDA)

Ⓐ IN PLACE PAVEMENT (RETAIN)
Ⓒ IN PLACE CURB & GUTTER (REMOVE)
Ⓓ IN PLACE CURB & GUTTER (RETAIN)

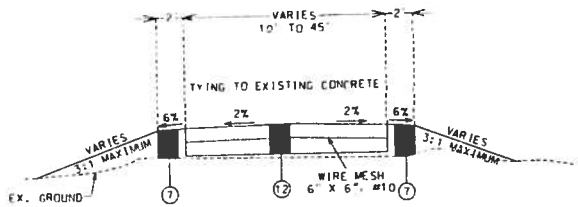
N.T.S.

PROJECT NO. STPHV-55-1016-003
MADISON COUNTY

DRIVEWAY SECTIONS

SEE PAVING LAYOUT SHEETS FOR LENGTH AND WIDTH.

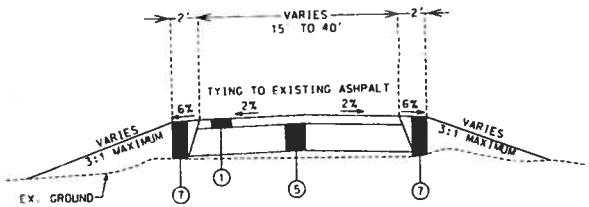
CONCRETE DRIVE



CONCRETE DRIVEWAY LOCATIONS

STATION	SIDE
CHURCH STREET STA. 44+49.58	LT.
CHURCH STREET STA. 46+83.75	RT.
CHURCH STREET STA. 47+83.60	LT.
CHURCH STREET STA. 57+49.85	LT.
CHURCH STREET STA. 62+92.64	LT.
CHURCH STREET STA. 63+83.20	RT.
CHURCH STREET STA. 63+88.66	LT.
CHURCH STREET STA. 64+50.12	LT.
ORCHARD STREET STA. 7+11.74	RT.
PEARL AVENUE STA. 1+41.90	LT.
PEARL AVENUE STA. 1+85.06	RT.
PEARL AVENUE STA. 4+78.26	RT.
DEMASTERS AVENUE STA. 1+78.52	RT.

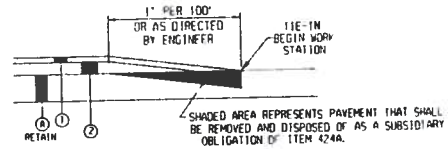
ASPHALT DRIVE



ASPHALT DRIVEWAY LOCATIONS

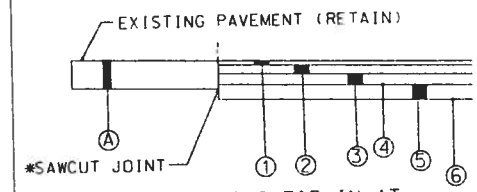
STATION	SIDE
CHURCH STREET STA. 42+54.29	LT.
CHURCH STREET STA. 43+05.52	RT.
CHURCH STREET STA. 50+50.00	LT.
CHURCH STREET STA. 57+22.28	RT.
CHURCH STREET STA. 58+20.66	LT.
CHURCH STREET STA. 58+22.77	RT.
CHURCH STREET STA. 59+63.62	RT.
CHURCH STREET STA. 60+77.23	RT.
CHURCH STREET STA. 62+69.75	RT.
CHURCH STREET STA. 65+63.11	RT.
CHURCH STREET STA. 66+48.04	LT.
CHURCH STREET STA. 67+76.82	RT.
CHURCH STREET STA. 67+80.35	LT.
CHURCH STREET STA. 68+57.60	RT.
CHURCH STREET STA. 69+59.22	RT.
CHURCH STREET STA. 69+65.39	LT.
PEARL AVENUE. STA. 4+55.73	LT.
OAKWOOD AVENUE STA. 28+11.87	RT.
OAKWOOD AVENUE STA. 28+46.87	RT.

DETAIL - TYING IN REQ'D PAVEMENT TO EXISTING PAVEMENT



TREATMENT TO BE USED AT BEGIN PROJECT

NOT TO SCALE



SKETCH SHOWING TIE IN AT
END PROJECT & SIDE ROADS

N.T.S.

* SEE PROJECT NOTE 303

REQ'D MATERIALS LEGEND

1. REQ'D 424A-360 SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, ½" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 140#/SY)
2. REQ'D 424B-651 SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 280#/SY)
3. REQ'D 424C-360 SUPERPAVE BITUMINOUS CONCRETE BASE LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 325#/SY)
4. REQ'D 401A-000 BITUMINOUS TREATMENT A
5. REQ'D 301A-008 CRUSHED AGGREGATE BASE COURSE. TYPE B. PLANT MIXED. 5" COMPACTED THICKNESS
6. REQ'D 230A-000 ROADBED PROCESSING
7. REQ'D 210A-000 UNCLASSIFIED EXCAVATION
12. REQ'D 618B-003 CONCRETE DRIVEWAY. 6" THICK (INCLUDES WIRE MESH)
13. REQ'D 430B-035 AGGREGATE SURFACING (ALDOT #467. #410 MODIFIED. OR #57)

(A) IN PLACE ASPHALT PAVEMENT & GRAVEL BASE (RETAIN)

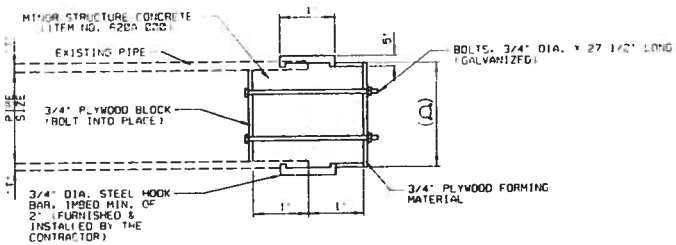
N.T.S.

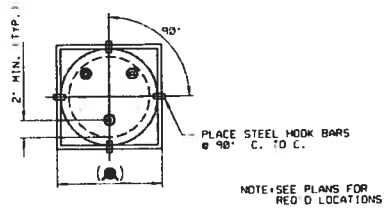
TYPICAL SECTION

PROJECT NO. STPHV-8540(600)

MADISON COUNTY

PERMANENT PIPE PLUG DETAIL



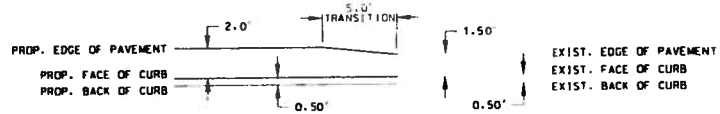


NOTE: BOLTS, NUTS, STEEL HOOKS AND PLYWOOD, ETC. TO BE PAID FOR AS A SUBSIDIARY OBLIGATION OF ITEM 620A-000.

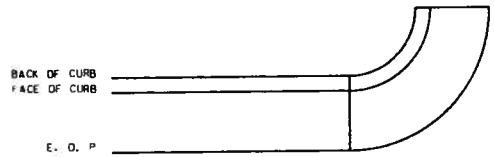
(D) DIA. OR RISE + 2 "T"

(A) DIA. OR SPAN + 2 "T"

CURB & GUTTER TRANSITION DETAIL

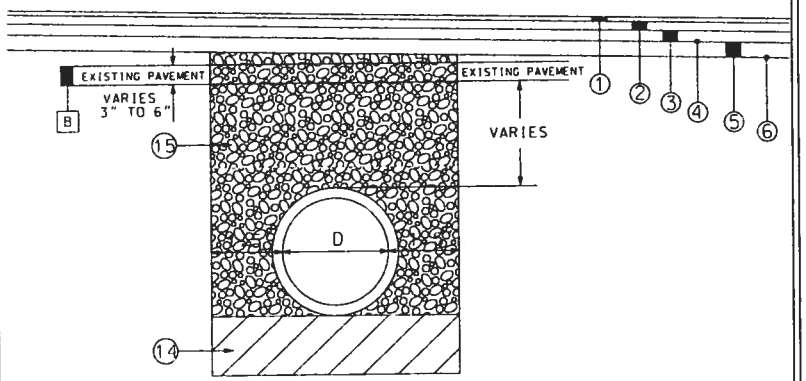


CURB & GUTTER TERMINATION DETAIL



STORM DRAIN PIPE BEDDING DETAIL AT ROADWAY CROSSINGS

NOTE: SEE DRAINAGE LAYOUT SHEETS FOR LOCATIONS. TO BE USED AS DIRECTED BY THE ENGINEER.



SCALE - N.T.S.

REQ'D MATERIALS LEGEND

- (B) IN PLACE PAVEMENT (REMOVE)(3-6 INCH THICKNESS)
- (1) REQ'D 424A-360 SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, ½" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 140#/SY)
- (2) REQ'D 424B-651 SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 280#/SY)
- (3) REQ'D 424C-360 SUPERPAVE BITUMINOUS CONCRETE BASE LAYER, 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D (APPROXIMATELY 325#/SY)
- (4) REQ'D 401A-000 BITUMINOUS TREATMENT A (69" WIDE)
- (5) REQ'D 301A-008 CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (69" WIDE)
- (6) REQ'D 230A-000 ROADBED PROCESSING
- (14) REQ'D 214B-001 FOUNDATION BACKFILL, COMMERCIAL
- (15) REQ'D 405B-071 COARSE AGGREGATE, SECTION 801, FOR MISCELLANEOUS USE

N.T.S.

PROJECT NOTES
PROJECT NO. STPHV-8540(600)
MADISON COUNTY

200. OMIT

201. DRIVEWAY SUBGRADES SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER. COST OF THIS WORK SHALL BE A SUBSIDIARY OBLIGATION TO THE ABOVE LYING LAYER.

202. THE TYPICAL SECTIONS ARE TO BE USED IN CONJUCTION WITH THE PAVING LAYOUTS TO DETERMINE THE PROPER WIDTHS, LENGTHS, TAPERS, AND TRANSITIONS.

203. THE TOP 6" OF SUBGRADE SHALL BE COMPACTED ON ALL SIDE ROADS TO 100% OF THE AASHTO T-99. COST OF THIS WORK SHALL BE A SUBSIDIARY OBLIGATION OF THE ABOVE LYING LAYER.

300. SEE SHEET 98 FOR UNCLASSIFIED EXCAVATION NOTES.

301. THE REMOVAL OF MISCELLANEOUS ITEMS NOT SPECIFICALLY SHOWN AS A PAY ITEM, SUCH AS FENCE, RETAINING WALLS, POSTS, AND BRICK COLUMNS SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 210A.

302. AT THE DIRECTION OF THE ENGINEER, REMOVED UNDAMAGED CONCRETE STORM DRAIN PIPE SHALL BE PICKED UP BY THE CITY FORCES. COST OF STOCKPILING SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 206D-000. PIPE SHALL BE STOCKPILED WITHIN PROJECT LIMITS.

303. SAWCUTTING OF PAVEMENT SHALL BE REQUIRED AT THE END OF PROJECT AND THE SIDE ROADS AS A SUBSIDIARY OBLIGATION OF ITEM 424A.

800. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

801. ALL WORK ASSOCIATED WITH SANITARY SEWER CONSTRUCTION SHALL CONFORM TO CITY OF HUNTSVILLE SPECIFICATIONS.

900. A NOTICE OF INTENT FOR NPDES PERMIT COVERAGE HAS BEEN FILED WITH ADEM FOR THIS PROJECT. A COPY OF THE CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN (CBMPP) IS AVAILABLE THROUGH THE OFFICE ENGINEER PRIOR TO BIDDING.

901. OMIT

PROJECT NO.	YEAR	NO.
STPHV 8540(600)	2017	24

GENERAL TRAFFIC CONTROL PLAN NOTES

CIRCLED NOTES THAT APPLY TO THIS PROJECT

([illegible]) THE TRAFFIC CONTROL PLAN IS DESIGNED IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PART 6, [illegible] EDITION. THE TRAFFIC CONTROL DEVICES INDICATED REPRESENT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS WARRANT ADDITIONAL TRAFFIC CONTROL DEVICES, THEY SHALL BE INSTALLED IN CONFORMANCE WITH THE M.U.T.C.D. PART 6 AS DIRECTED BY THE ENGINEER. COST SHALL BE PAID FOR UNDER THE APPROPRIATE PAY ITEM.

(701) ALL BLACK ON ORANGE CONSTRUCTION SIGNS SHALL BE FABRICATED USING TYPES IV OR VIII FLUORESCENT ORANGE REFLECTIVE SHEETING MATERIAL FOR THE SIGN BACKGROUND.

(702) DURING NON WORKING HOURS NO EQUIPMENT OR MATERIAL SHALL BE PARKED OR STORED CLOSER THAN 30 FEET TO THE EDGE OF ANY ROADWAY CARRYING TRAFFIC. WHEN THIS IS NOT PRACTICAL, IT SHALL BE PLACED IN AN AREA DESIGNATED BY THE ENGINEER AND DELINEATED BY REFLECTORIZED DRUMS. THIS INCLUDES STORAGE OF TRAFFIC CONTROL DEVICES SUCH AS TRAILER MOUNTED OR OTHER TEMPORARY SIGNS, BARRICADES, DRUMS, ETC., WHICH ARE NOT IN USE DURING NON-WORKING HOURS. TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE ALDOT. (SEE SKETCH ON SHEET 36)

(703) WHERE THE LOCATION OF A REQUIRED SIGN FALLS IN A DRIVEWAY, SIDEWALK, BRIDGE, ETC. OR WHERE THE VISIBILITY OF A SIGN IS LIMITED TO THE TRAVELING PUBLIC, THE LOCATION SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER.

(704) THE CONTRACTOR IS TO REMOVE, RELOCATE OR COVER DURING CONSTRUCTION AND THEN RESET OR UNCOVER UPON COMPLETION OF A PARTICULAR SECTION ANY CONFLICTING IN-PLACE ROADWAY SIGNS AND DELINEATORS, AS DIRECTED BY THE ENGINEER. SIGNS REQUIRING REMOVAL SHALL BE STOCKPILED AS DIRECTED BY THE ENGINEER AND SHALL BECOME PROPERTY OF THE ALDOT. COST SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B.

(705) DURING ALL PHASES OF WORK, NON-APPLICABLE PAVEMENT STRIPING OR MARKINGS SHALL BE REMOVED AND APPROPRIATE PAVEMENT STRIPING OR MARKINGS SHALL BE PLACED AS EXPEDITIOUSLY AS PRACTICAL, BUT IN ALL CASES, SHALL BE IN PLACE BY NIGHTFALL ON ANY ROADWAY CARRYING TRAFFIC, EXCEPT ON SHORT TERM OPERATIONS WHERE IT IS DETERMINED BY THE ENGINEER, THAT SUCH REMOVAL AND REPLACEMENT IS MORE HAZARDOUS THAN LEAVING EXISTING MARKINGS IN PLACE. COST OF ANY REMOVAL SHALL BE PAID FOR UNDER ITEM 701D OR AS A SUBSIDIARY OBLIGATION OF ITEM 701C.

706 OMITTED

(707) THE CONTRACTOR SHALL PLACE ALL ADVANCE WARNING SIGNS BEFORE PROCEEDING WITH HIS WORK. SIGNS SHALL BE PLACED IN ORDER, IN THE DIRECTION OF TRAFFIC AND REMOVED IN REVERSE ORDER.

(708) ALL VEHICLES, EQUIPMENT, PERSONNEL (EXCEPT FLAGGERS), AND THEIR ACTIVITIES, ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

(709) THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS TO BUSINESSES AND RESIDENCES DURING ALL PHASES OF CONSTRUCTION.

(710) CONSTRUCTION SIGNS MOUNTED ON TEMPORARY SUPPORTS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5 FEET.

(711) FLAGGERS SHALL BE PROPERLY ATTIRED, EQUIPPED WITH STAFF MOUNTED STOP/SLOW PADDLES IN SIGHT OF EACH OTHER, OR HAVE DIRECT COMMUNICATION AT ALL TIMES. FLAGGER STATION LOCATION MAY BE VARIED FROM THOSE SHOWN BASED ON ROADWAY ALIGNMENT AND CONDITIONS AT THE TIME OF THE LANE CLOSURE.

(712) FLAGGERS ARE TO BE USED WHEN DIRECTED BY THE ENGINEER. SIGNS SHALL BE PLACED AT THE APPROPRIATE TIME, AND SHALL BE COVERED OR REMOVED WHEN FLAGGERS ARE NOT ON DUTY AND DURING NON-WORKING HOURS.

(713) FOR MOVING OPERATIONS, THE TRAFFIC CONES MAY BE DELETED IF THE FLAGGERS ARE IN SIGHT OF EACH OTHER, OR IF A PILOT CAR IS USED ON A TWO LANE ROADWAY.

714 OMITTED

(715) ALL CONTRACTOR'S EMPLOYEES' PERSONAL VEHICLES, AND CONTRACTOR'S EQUIPMENT NOT IN OPERATION, SHALL BE PARKED A MINIMUM OF THIRTY (30) FEET FROM THE TRAVELED WAY DURING WORKING HOURS, AS NOT TO CREATE A HAZARD.

(716) THE TRAFFIC CONTROL PLAN IS NOT ALL INCLUSIVE. THE TCP PROVIDES SEVERAL DETAILED DRAWINGS INDICATING THE TRAFFIC CONTROL NECESSARY FOR THE DIFFERENT CONSTRUCTION ACTIVITIES ANTICIPATED FOR THIS PROJECT. THE CONTRACTOR SHALL SELECT THE DETAILED DRAWING THAT BEST FITS THE ACTIVITY TO BE PERFORMED.

717 OMITTED

718 REQUIRED TEMPORARY ROUTE MARKER ASSEMBLIES THAT ARE TO BE LOCATED IN THE VICINITY OF EXISTING ROUTE MARKERS SHOULD BE PLACED ALONG SIDE OF THOSE ALREADY IN PLACE. SOME EXISTING ROUTE MARKERS MAY HAVE TO BE COVERED OR REMOVED, AS DIRECTED BY THE ENGINEER. COST SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B.

719 OMITTED

(720) ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

721 OMITTED

722 OMITTED

(723) THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SAFETY OF PEDESTRIAN TRAFFIC CROSSING THE WORK ZONES DURING CONSTRUCTION.

724 OMITTED

(725) ALL SIGNS SHALL BE POST-MOUNTED IF THE WORK PERIOD EXCEEDS FOUR DAYS, EXCEPT FOR THOSE SIGNS WHICH ARE MOUNTED ON BARRICADES. FOR REPEATED DAY OPERATIONS, SIGNS MAY BE MOUNTED ON TEMPORARY SUPPORTS AND REMOVED AT THE COMPLETION OF THE DAY'S OPERATION.

726 OMITTED

(727) DURING THE WIDENING OR RESURFACING OF ANY ROADWAY CARRYING TRAFFIC, THE CONTRACTOR SHALL ADVISE THE MOTORISTS OF ANY EDGE OF PAVEMENT DROP-OFFS 3 INCHES OR GREATER BY PLACING SHOULDER DROP-OFF SIGNS EVERY 1/2 MILE BEGINNING PRIOR TO THE WIDENING OR RESURFACING. REQUIRED SHOULDER WORK TO ELIMINATE THE DROP OFFS SHALL BE PURSUED IN AN EXPEDITIOUS MANNER FOLLOWING THE WIDENING AND/OR RESURFACING.

728 A DIFFERENCE IN ELEVATION OF APPROXIMATELY 2 INCHES OR LESS AT THE CENTERLINE MAY BE ALLOWED DURING NON-WORKING HOURS WITHOUT ADDITIONAL TRAFFIC CONTROL. SPECIAL CONDITIONS MAY EXIST WHERE PROTECTION SHOULD BE PROVIDED WHERE THE DIFFERENCE IS 2 INCHES OR LESS.

(729) SIGNS ON TEMPORARY SUPPORTS ARE TO BE REMOVED OR COVERED WHEN NO WORK IS BEING PERFORMED OR AT THE COMPLETION OF THE DAY'S OPERATION.

730 OMITTED

731 OMITTED

(732) CHANNELIZING DRUMS SHOULD BE PLACED ON 10 FOOT INTERVALS IN RADII.

(733) CHANNELIZING DRUMS PLACED TO PROTECT COMPLETED WORK NOT OPEN TO TRAFFIC SHOULD BE SPACED AT 50 FOOT INTERVALS.

734 CHANNELIZING DRUMS PLACED IN THE EXCAVATED AREA AHEAD OF PAVING OPERATIONS SHOULD BE SPACED AT 50 FOOT INTERVALS.

735 CHANNELIZING DRUMS PLACED ON PAVEMENT DURING WORKING HOURS SHALL BE SHIFTED TO THE EDGE OF SHOULDER DURING NON-WORKING HOURS AND DURING PEAK PERIODS.

(736) CHANNELIZING DRUMS SHOULD BE PLACED ON 25 FOOT INTERVALS THROUGHOUT ALL TAPERS.

(737) CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.

738 OMITTED

(739) THE QUANTITIES SHOWN IN THE TRAFFIC CONTROL SUMMARY BOX ARE CONSIDERED TO BE THE MINIMUM REQUIREMENT FOR HANDLING TRAFFIC AT ANY GIVEN TIME DURING CONSTRUCTION.

(740) LIGHTWEIGHT TYPE B WARNING LIGHTS (WEIGHING 3.3 POUNDS OR LESS) WITH DETACHABLE HEADS MAY BE USED ON DRUMS IN SPECIAL SITUATIONS AS SHOWN ON THE PLANS. TYPE B WARNING LIGHTS WITH DETACHABLE HEADS USED ON BARRICADES SHALL BE LIGHTWEIGHT (WEIGHING 3.3 POUNDS OR LESS). ANY HEAVYWEIGHT WARNING LIGHTS ON BARRICADES MUST BE CERTIFIED BY THE VENDOR AS TO CRASHWORTHINESS OF THE BARRICADE AND WARNING LIGHT COMBINATION.

741 FOR DIVIDED ROADWAYS, THE REQUIRED ADVANCE WARNING SIGNS SHALL BE POSTED ON BOTH THE RIGHT AND LEFT SIDE OF THE ROADWAY.

(742) THE CONTRACTOR SHALL CLOSE THE LANE ADJACENT TO THE WORK AREA ANYTIME WORK OUTSIDE THE EXISTING TRAVEL LANES ENCROACHES WITHIN 2 FEET OF THE EXISTING TRAVEL LANES.

743 OMITTED

(744) THE TRANSITION TAPER LENGTH (L) IS SHOWN IN TABLE 6C-4, AND THE BUFFER LENGTH IS SHOWN IN TABLE 6C-2 OF THE MUTCD, PART 6, 2003 EDITION.

745 OMITTED

746 UNEVEN LANES SIGNS SHALL BE COVERED OR REMOVED WHEN NO UNEVEN PAVEMENT CONDITIONS EXIST.

(747) MOVING OPERATIONS SHALL BE CONFINED TO ONE LANE IN THE DIRECTION OF TRAFFIC.

748 R16-3 AND R16-4 SIGNS SHALL BE REQUIRED FOR EVERY PROJECT ON STATE ROUTES AND INTERSTATE HIGHWAYS. THEY SHALL BE POSTED AT THE BEGINNING AND END OF THE PROJECT. AN R2-1 SIGN SHALL ALWAYS BE REQUIRED FOLLOWING AN R16-3 SIGN. ADDITIONAL R16-3 SIGNS SHALL BE POSTED AT MAXIMUM THREE MILE INTERVALS THROUGHOUT THE PROJECT LIMITS. ADDITIONAL R16-3 SIGNS SHALL BE REQUIRED WITH A W3-5a (REDUCED SPEED AHEAD) SIGN AND R2-1 SIGNS IF REDUCTION OF SPEED IS REQUIRED FOR A WORK AREA SUCH AS A LANE CLOSURE WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL COVER OR REMOVE THE R2-1 (REGULATORY SPEED SIGNS) AND THE W3-5a (REDUCED SPEED AHEAD) SIGNS WHEN A SPEED REDUCTION THROUGH THE CONSTRUCTION WORK ZONE IS NOT REQUIRED AND THE CONSTRUCTION ACTIVITY AND/OR LOCATION OF WORK ACTUALLY BEING PERFORMED DOES NOT PRESENT A CLEAR AND PRESENT DANGER TO CONSTRUCTION WORKERS OR THE TRAVELING PUBLIC.

749 DURING REPLACEMENT OF GUARDRAIL AND/OR GUARDRAIL END ANCHORS, A REFLECTORIZED DRUM WITH A LIGHTWEIGHT TYPE B WARNING LIGHT (WEIGHING 3.3 POUNDS OR LESS) WITH A DETACHABLE HEAD SHALL BE PLACED BEFORE THE END OF ANY EXPOSED GUARDRAIL AT NIGHT WHERE THE GUARDRAIL END ANCHOR CANNOT BE REPLACED IN ONE DAY'S TIME.

(750) CONSTRUCTION SIGNS MOUNTED ON A SINGLE OR DUAL SQUARE TUBULAR OR U-CHANNEL POST SHALL BE INSTALLED AS SHOWN ON SPECIAL DRAWING NOS. IHS-710-21 AND IHS-710-23. SINGULAR OR DUAL 4 X 4 WOOD POSTS ARE CONSIDERED BREAKAWAY.

(751) BASE AND PAVING OPERATIONS ON OAKWOOD AVENUE SHALL BE LIMITED TO NON PEAK HOURS. NO LANE CLOSURES PERMITTED FROM 6 AM TO 9 AM AND FROM 3 PM TO 6 PM.

(752) THE CONTRACTOR SHALL NOT HAVE A LANE CLOSURE DURING THE FOLLOWING PERIODS UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR ALDOT:

* FOR CHRISTMAS DAY AND NEW YEARS DAY: FROM 11:59 PM DECEMBER 23 THROUGH 11:59 PM JANUARY 2.
* FOR MARTIN LUTHER KING JR'S BIRTHDAY, MEMORIAL DAY, LABOR DAY: FROM 12:00 NOON THE FRIDAY BEFORE THE HOLIDAY THROUGH 11:59 PM THE DAY OF THE HOLIDAY.
* FOR INDEPENDENCE DAY (THE 4TH OF JULY): FROM 12:00 NOON THE DAY BEFORE THE HOLIDAY THROUGH 11:59 PM THE DAY OF THE HOLIDAY.
* THANKSGIVING DAY: FROM 12:00 NOON THE WEDNESDAY BEFORE THANKSGIVING THROUGH 11:59 PM THE SUNDAY FOLLOWING THANKSGIVING DAY.
* ANY OTHER STATE HOLIDAY WILL BE HANDLED AS APPROVED BY THE PROJECT ENGINEER.

THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND LOCAL GOVERNMENT ON TRAFFIC AND/OR WORK RESTRICTIONS FOR LOCAL HOLIDAYS OR EVENTS NOT LISTED ON ALDOT'S LIST OF OFFICIAL STATE HOLIDAYS.

(753) ANY TRAFFIC CONTROL DEVICES LEFT IN PLACE FROM THE PREVIOUS CLEARING AND GRUBBING AND STRUCTURE REMOVAL PROJECT ARE TO BE USED FOR THE GRADE, DRAIN, BASE AND PAVE PROJECT. THE GRADE, DRAIN, BASE AND PAVE CONTRACTOR WILL REPLACE ANY MISSING OR SUB-STANDARD DEVICES AND WILL PROVIDE ANY ADDITIONAL DEVICES REQUIRED FOR THE PROJECT. PAYMENT OF THESE ADDITIONAL DEVICES WILL BE UNDER THE APPROPRIATE PAY ITEM ESTABLISED IN THE CONTRACT. UPON COMPLETION OF THIS PROJECT, ALL CONSTRUCTION TRAFFIC CONTROL DEVICES WILL BECOME THE PROPERTY OF THE CONTRACTOR.

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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ALABAMA DEPARTMENT OF TRANSPORTATION

GENERAL TRAFFIC CONTROL PLAN NOTES

TEMPORARY TRAFFIC CONTROL

SUMMARY OF QUANTITIES

PROJECT No. STPHV-8540(600) MADISON COUNTY

TOTAL	ITEM NUMBER	UNIT	ITEM DESCRIPTION
1	201A-002	LUMP SUM	CLEARING AND GRUBBING (MAXIMUM ALLOWABLE BID $4000.00/ACRE) (APPROXIMATELY 7 ACRES)
1944	206C-010	SQ YD	REMOVING CONCRETE DRIVEWAY
630	206D-000	LIN FT	REMOVING PIPE (B)
2519	206D-003	LIN FT	REMOVING CURB AND GUTTER
10	206E-001	EACH	REMOVING INLETS
19367	210A-000	CU YD	UNCLASSIFIED EXCAVATION (A)
7407	214A-000	CU YD	STRUCTURE EXCAVATION
1921	214B-001	CU YD	FOUNDATION BACKFILL, COMMERCIAL
48	230A-000	ROBD STA	ROADBED PROCESSING
30974	301A-008	SQ YD	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS
484	305B-071	TON	COARSE AGGREGATE, SECTION 801, FOR MISCELLANEOUS USE
30457	401A-000	SQ YD	BITUMINOUS TREATMENT A
2620	405A-000	GALLON	TACK COAT
2	407B-000	MILE	JOINT SEALANT FOR HOT MIX ASPHALT PAVEMENT
1868	424A-360	TON	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, ½" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (C)
130	424A-366	TON	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING ½" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D
3667	424B-651	TON	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D
4256	424C-360	TON	SUPERPAVE BITUMINOUS CONCRETE BASE LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D
4600	430B-035	TON	AGGREGATE SURFACING (ALDOT # 467, #410 MODIFIED OR #57)
599	530A-001	LIN FT	18" ROADWAY PIPE (CLASS 3 R.C.)
362	530A-002	LIN FT	24" ROADWAY PIPE (CLASS 3 R.C.)
85	530A-003	LIN FT	30" ROADWAY PIPE (CLASS 3 R.C.)
44	530B-001	LIN FT	22" SPAN, 14" RISE ROADWAY PIPE (CLASS 3 R.C.)
1392	533A-098	LIN FT	18" STORM SEWER PIPE (CLASS 3 R.C.)
1508	533A-099	LIN FT	24" STORM SEWER PIPE (CLASS 3 R.C.)
1345	533A-100	LIN FT	30" STORM SEWER PIPE (CLASS 3 R.C.)
322	533A-101	LIN FT	36" STORM SEWER PIPE (CLASS 3 R.C.)
848	533A-102	LIN FT	42" STORM SEWER PIPE (CLASS 3 R.C.)
36	535A-001	LIN FT	18" SIDEDRAIN PIPE
1	600A-000	LUMP SUM	MOBILIZATION
1	603A-001	EACH	FURNISHING TYPE 2 FIELD OFFICE
47	614A-000	CU YD	SLOPE PAVING
3103	618A-000	SQ YD	CONCRETE SIDEWALK, 4" THICK
262	618A-001	SQ YD	CONCRETE SIDEWALK, 6" THICK
835	618B-003	SQ YD	CONCRETE DRIVEWAY, 6" THICK (INCLUDES WIRE MESH)
2	619A-101	EACH	18" SIDEDRAIN PIPE END TREATMENT, CLASS 1
9	620A-000	CU YD	MINOR STRUCTURE CONCRETE
17	621A-011	EACH	JUNCTION BOXES, TYPE 1 OR 1P
30	621B-011	EACH	JUNCTION BOX UNITS, TYPE 1 OR 1P
35	621C-015	EACH	INLETS, TYPE S1 OR S3 (1 WING)
8	621C-017	EACH	INLETS, TYPE S1 OR S3 (2 WING)
1	621C-027	EACH	INLETS, TYPE C
24	621D-015	EACH	INLET UNITS, TYPE S1 OR S3
7606	623C-000	LIN FT	COMBINATION CURB & GUTTER, TYPE C
120	641A-534	LIN FT	1 INCH P.E. WATER SERVICE LINE LAID
135	641A-536	LIN FT	1½ INCH P.E. WATER SERVICE LINE LAID
1560	641A-612	LIN FT	6 INCH DUCTILE IRON WATER MAIN LAID
3040	641A-618	LIN FT	12 INCH DUCTILE IRON WATER MAIN LAID
20	641A-682	LIN FT	6 INCH DUCTILE IRON WATER MAIN LAID (RESTRAINED JOINT)
20	641A-688	LIN FT	12 INCH DUCTILE IRON WATER MAIN LAID (RESTRAINED JOINT)
1434	641C-500	POUND	DUCTILE IRON FITTINGS
9	641D-500	EACH	FIRE HYDRANT
15	641J-516	EACH	6 INCH GATE VALVE WITH BOX
5	641J-522	EACH	12 INCH GATE VALVE WITH BOX
31	641L-500	CU YD	CONCRETE FOR WATER MAINS (THRUST BLOCKS)
75	641M-512	EACH	6 INCH RETAINER GLAND
31	641M-518	EACH	12 INCH RETAINER GLAND
1	641N-510	EACH	6 INCH x 6 INCH ANCHOR TEE
7	641N-540	EACH	12 INCH x 6 INCH ANCHOR TEE
1	641O-614	EACH	18 INCH x 12 INCH TAPPING VALVE AND SLEEVE

PROJECT NOTES

(A) 300 & 301

(B) 302

(C) 303

SUMMARY OF QUANTITIES

PROJECT No. STPHV-8540(600) MADISON COUNTY

TOTAL	ITEM NUMBER	UNIT	ITEM DESCRIPTION
4	641P-520	EACH	1 INCH SERVICE TAP
1	641P-525	EACH	1½ INCH SERVICE TAP
5	641D-515	EACH	1 INCH WATER METER AND BOX SET
36	645A-506	LIN FT	4 INCH DUCTILE IRON SANITARY SEWER GRAVITY PIPE LAID
20	645A-508	LIN FT	6 INCH DUCTILE IRON SANITARY SEWER GRAVITY PIPE LAID
1713	645A-510	LIN FT	8 INCH DUCTILE IRON SANITARY SEWER GRAVITY PIPE LAID
900	645A-544	LIN FT	4 INCH P.V.C.SANITARY SEWER GRAVITY PIPE LAID
5826	645A-548	LIN FT	8 INCH P.V.C.SANITARY SEWER GRAVITY PIPE LAID
33	645H-510	EACH	48 INCH MANHOLE
64	645I-500	EACH	48 INCH MANHOLE UNIT
1574	650B-000	CU YD	TOPSOIL FROM STOCKPILES
2	652A-100	ACRE	SEEDING
4422	654A-001	SQ YD	SOLID SODDING (BERMUDA)
2	656A-010	ACRE	MULCHING
2500	659C-001	SQ YD	EROSION CONTROL PRODUCT.TYPE S3
4	665A-000	ACRE	TEMPORARY SEEDING
12	665B-001	TON	TEMPORARY MULCHING
7658	665J-002	LIN FT	SILT FENCE
7658	665O-001	LIN FT	SILT FENCE REMOVAL
24	665P-005	EACH	INLET PROTECTION STAGE 3 OR 4
2040	665Q-002	LIN FT	WATTLE
2	666A-001	ACRE	PEST CONTROL TREATMENT
1000	674A-000	LIN FT	CONSTRUCTION SAFETY FENCE
1	680A-001	LUMP SUM	GEOMETRIC CONTROLS
1	698A-000	LUMP SUM	CONSTRUCTION FUEL (MAXIMUM BID LIMITED TO $
1	701A-231	MILE	SOLID WHITE.CLASS 2.TYPE A TRAFFIC STRIPE
2	701A-235	MILE	SOLID YELLOW.CLASS 2.TYPE A TRAFFIC STRIPE
1	701A-240	MILE	BROKEN WHITE.CLASS 2.TYPE A TRAFFIC STRIPE
1	701A-245	MILE	BROKEN YELLOW.CLASS 2.TYPE A TRAFFIC STRIPE
600	701B-205	LIN FT	DOTTED CLASS 2.TYPE A.TRAFFIC STRIPE
6100	701E-001	LIN FT	SOLID TEMPORARY TRAFFIC STRIPE (PAINT)
6100	701E-011	LIN FT	BROKEN TEMPORARY TRAFFIC STRIPE (PAINT)
1565	703A-002	SQ FT	TRAFFIC CONTROL MARKINGS.CLASS 2.TYPE A
90	703B-002	SQ FT	TRAFFIC CONTROL LEGENDS.CLASS 2.TYPE A
18	705A-030	EACH	PAVEMENT MARKERS.CLASS A-H.TYPE 2-C
100	705A-031	EACH	PAVEMENT MARKERS.CLASS A-H.TYPE 1-A
141	705A-037	EACH	PAVEMENT MARKERS.CLASS A-H.TYPE 2-D
53	710A-115	SQ FT	CLASS 4.ALUMINUM FLAT SIGN PANELS 0.08" THICK OR STEEL FLAT SIGN PANELS 14 GAUGE (TYPE III OR TYPE IV BACKGROUND)
41	710A-126	SQ FT	CLASS 8.ALUMINUM FLAT SIGN PANELS 0.08" THICK OR STEEL FLAT SIGN PANELS 14 GAUGE (TYPE IX BACKGROUND)
156	710B-001	LIN FT	ROADWAY SIGN POST (#3 "U" CHANNEL GALVANIZED STEEL)
20	713A-000	LIN FT	PERMANENT BARRICADES
1372	740B-000	SQ FT	CONSTRUCTION SIGNS
370	740D-000	EACH	CHANNELIZING DRUMS
30	740E-000	EACH	CONES (36" HIGH)
22	740F-002	EACH	BARRICADES.TYPE III
11	740I-005	EACH	WARNING LIGHTS.TYPE B (DETACHABLE HEAD)
30	740M-001	EACH	BALLAST FOR CONE
2	741C-010	EACH	PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT
35	750D-200	EACH	ELECTRICAL JUNCTION BOX.TYPE 1
5380	750E-115	LIN FT	CONDUIT.2 INCH.RIGID NONMETALLIC
36	756A-020	LIN FT	2" ELECTRICAL CONDUIT.1 LINE.TYPE 5 INSTALLATION
1300	756A-022	LIN FT	4" ELECTRICAL CONDUIT.1 LINE.TYPE 5 INSTALLATION
	999-000	HOURS	TRAINEE HOURS 80 CENTS PER HOUR

SUMMARY OF QUANTITIES

REQUIRED SOLID SODDING (BERMUDA)

LOCATION	STATION	654A-001 SQ YD	STANDARD DRAWING
CHURCH ST.	STA. 41+50 TO STA. 71+60	3680	P
FREDERICK AVE	STA. 1+20 TO STA. 1+50	14	P
ORCHARD ST.	STA. 1+00 TO STA. 3+40	374	P
DEMASTERS AVE	STA. 0+05 TO STA. 2+70	118	P
PEARL AVE.	STA. 0+50 TO STA. 5+80	236	P
TOTAL		4422	

REQUIRED CURB & GUTTER AND SLOPE PAVING

LOCATION	STATION FROM	STATION TO	SIDE	COMBINATION CURB & GUTTER, TYPE C ITEM NO.623C-000 LIN.FT.	SLOPE PAVING ITEM NO.614A-000 CU YD	STANDARD & SPECIAL DRAWINGS	REMARKS
CHURCH STREET	43+50	55+43	RT	1188		A	
	41+50	55+56	LT	1320		A	
	55+70	71+69	RT	1447		A	
	55+81	60+53	LT	431		A	
	61+82	71+49	LT	984		A	
	71+05	71+62	LT		30	B	
	71+24	71+63	RT		17	B	
PEARL AVENUE	0+50	2+36	LT	111		A	
	0+50	2+37	RT	174		A	
	3+58	5+52	LT	157		A	
	3+66	5+51	RT	168		A	
ORCHARD STREET	2+92	8+20	LT	542		A	
	2+92	5+84	RT	316		A	
	6+17	9+22	RT	301		A	
	8+45	9+22	LT	94		A	
DEMASTERS AVENUE	1+00	2+40	LT	140		A	
	1+00	2+38	RT	121		A	
OAKWOOD AVENUE	27+18	28+66	RT	112		A	
			TOTALS	7606	47		

REQUIRED SIDEDRAIN PIPE

LOCATION	STATION	SIDE	535A-001 18" SIDE DRAIN PIPE LIN FT	619A-101 18" SIDE DRAIN PIPE END TREATMENT, CLASS I EACH	STANDARD DRAWING
CHURCH ST.	43+00.00	RT.	36	2	N.D
TOTAL			36	2	

REQUIRED CONCRETE DRIVEWAY

LOCATION	SIDE	STATION	618B-003 SQ YD	REMARKS
CHURCH ST.	LT.	44+49	81	
CHURCH ST.	RT.	46+83	99	
CHURCH ST.	LT.	47+83	81	
CHURCH ST.	LT.	57+49	175	
CHURCH ST.	LT.	62+92	72	
CHURCH ST.	RT.	63+83	80	
CHURCH ST.	LT.	63+88	42	
CHURCH ST.	LT.	64+50	43	
ORCHARD ST.	RT.	7+11	33	
PEARL AVE.	LT.	1+41	41	
PEARL AVE.	RT.	1+85	29	
PEARL AVE.	RT.	4+78	29	
DEMASTERS AVE	RT.	1+78	30	
TOTAL			835	

REQUIRED CONCRETE DRIVEWAY REMOVAL

LOCATION	SIDE	STATION	206C-010 SQ YD	REMARKS
CHURCH ST.	LT.	44+51	83	
CHURCH ST.	RT.	46+90	103	
CHURCH ST.	RT.	47+54	251	
CHURCH ST.	RT.	48+48	69	
CHURCH ST.	RT.	46+91	63	
CHURCH ST.	RT.	58+74	41	
CHURCH ST.	LT.	59+85	335	
CHURCH ST.	RT.	60+00	254	
CHURCH ST.	LT.	61+22	45	
CHURCH ST.	LT.	62+93	85	
CHURCH ST.	RT.	63+28	60	
CHURCH ST.	LT.	63+90	60	
CHURCH ST.	LT.	64+52	64	
CHURCH ST.	RT.	64+58	353	
PEARL AVE.	RT.	1+86	47	
PEARL AVE.	RT.	4+65	31	
TOTAL			1944	

REQUIRED EROSION CONTROL QUANTITIES

LOCATION	SIDE	SEEDING 652A-100 ACRE	MULCHING 656A-010 ACRE	EROSION CONTROL PRODUCT, TYPE S3 659C-001 SQ YD	TEMPORARY SEEDING 665A-000 ACRE	TEMPORARY MULCHING 665B-001 TON	SILT FENCE 665J-002 LIN FT	SILT FENCE REMOVAL 6650-001 LIN FT	INLET PROTECTION STAGE 3 OR 4 665P-005 EACH	WATTLE 6650-002 LIN FT	SPECIAL OR STANDARD DRAWING
ENTIRE PROJECT	BOTH	2	2	2500	4	12	7658	7658	24	2040	C, D, E, F, G, H, I, J, K, L, M
	TOTALS:	2	2	2500	4	12	7658	7658	24	2040	

PROJECT NOTES
301,302,303

LEGEND

A: 623-XY
B: 623-N SPEC
C: ESC-100 (2 SHEETS)
D: ESC-200 (4 SHEETS)
E: ESC-300 (7 SHEETS)
F: ESC-400 (5 SHEETS)
G: ESC-501
H: ESC-502
I: ESC-503
J: ESC-504
K: ESC-505
L: ESC-506 (2 SHEETS)
M: ESC-507
N: HW-614-SP
O: HW-614-SP (PC)
P: SS-654

SUMMARY OF QUANTITIES

REQUIRED PERMANENT STRIPING, MARKINGS, AND PAVEMENT MARKERS

LOCATION	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE	SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE	BROKEN WHITE, CLASS 2, TYPE A TRAFFIC STRIPE	BROKEN YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE	DOTTED WHITE, CLASS 2, TYPE A TRAFFIC STRIPE	SOLID TEMPORARY TRAFFIC STRIPE (PAINT)	BROKEN TEMPORARY TRAFFIC STRIPE (PAINT)	TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A	TRAFFIC CONTROL LEGENDS, CLASS 2, TYPE A	PAVEMENT MARKERS, CLASS A-H, TYPE 2-C	PAVEMENT MARKERS, (1-55 A-H, TYPE 1-A	PAVEMENT MARKERS, CLASS A-H, TYPE 2-D	SPECIAL OR STANDARD DRAWING
	701A-231 MILE	701A-235 MILE	701A-240 MILE	701A-245 MILE	701B-205 LIN FT	701E-001 LIN FT	701E-011 LIN FT	703A-002 SQ FT	703B-002 SQ FT	705A-030 EACH	705A-031 EACH	705A-037 EACH	
ENTIRE PROJECT	1	2	1	1	600	6100	6100	1565	90	18	100	141	H, I, J, K, L, N
TOTALS:	1	2	1	1	600	6100	6100	1565	90	18	100	141	

REQUIRED PIPE REMOVAL

LOCATION	SIDE	STATION	206D-000 LENGTH (FEET)	SIZE & TYPE	REMARKS
CHURCH ST.	℄	59+22	51	36" RCP	
CHURCH ST.	LT.	60+00	165	24" RCP	
CHURCH ST.	LT.	60+87	140	24" RCP	
CHURCH ST.	℄	55+80	45	15" RCP	
PEARL AVE.	LT.	1+40	35	15" RCP	
PEARL AVE.	RT.	3+16	100	15" RCP	
PEARL AVE.	LT.	2+00	75	18" RCP	
ORCHARD ST.	RT.	5+70	19	15" RCP	
TOTAL			630		

REQUIRED INLETS REMOVAL

LOCATION	SIDE	STATION	206E-001 EACH	REMARKS
CHURCH ST.	RT.	55+77.3	1	
CHURCH ST.	LT.	55+81.5	1	
CHURCH ST.	RT.	59+21.6	1	
CHURCH ST.	LT.	59+22.5	1	
CHURCH ST.	LT.	60+91.9	1	
PEARL AVE.	LT.	1+96.8	1	
PEARL AVE.	LT.	4+16.6	1	
DEMASTERS AVE.	LT.	1+42.7	1	
FREDERICK AVE.	RT.	1+23.1	1	
FREDERICK AVE.	RT.	1+37.4	1	
TOTAL			10	

REQUIRED CURB AND GUTTER REMOVAL

LOCATION	SIDE	STATION	206D-003 LENGTH (FEET)	REMARKS
CHURCH ST.	LT.	STA. 55+78 TO STA. 56+63	85	
CHURCH ST.	LT.	STA. 58+10 TO STA. 59+37	127	
CHURCH ST.	LT.	STA. 60+22 TO STA. 64+96	474	
CHURCH ST.	LT.	STA. 66+04 TO STA. 69+45	341	
CHURCH ST.	RT.	STA. 55+74 TO STA. 70+04	1430	
FREDERICK AVE.	LT.	STA. 1+19 TO STA. 1+50	31	
FREDERICK AVE.	RT.	STA. 1+19 TO STA. 1+50	31	
TOTAL			2519	

REQUIRED PLUGGED AND ABANDONED PIPES

LOCATION	STATION	SIDE	SIZE & TYPE	620A-000 MINOR STRUCTURE CONCRETE CU YDS	REMARKS
PEARL AVE.	2+00	℄	18" RCP	0.27	A
TOTAL				1.0	

REQUIRED CONCRETE SIDEWALK

LOCATION	STATION FROM	STATION TO	SIDE	WIDTH	CONCRETE SIDEWALK, 4" THICK ITEM NO. 618A000 SQ.YD.	CONCRETE SIDEWALK, 6" THICK ITEM NO. 618A001 SQ.YD.	STANDARD & SPECIAL DRAWINGS	REMARKS
CHURCH STREET	41+50.00	42+49.29	LT	5.0'	56		0	
	42+49.29	42+59.29	LT	5.0'		6	0	
	42+59.29	44+39.01	LT	5.0'	100		0	
	44+39.01	44+60.15	LT	5.0'		12	0	
	44+60.15	47+73.03	LT	5.0'	174		0	
	47+73.03	47+93.76	LT	5.0'		12	0	
	47+93.76	50+40.00	LT	5.0'	137		0	
	50+40.00	50+60.00	LT	5.0'		12	0	
	50+60.00	55+87.00	LT	5.0'	272		0	
	55+87.00	57+27.35	LT	5.0'			0	
	57+27.35	57+72.35	LT	5.0'		25	0	
	57+72.35	58+15.66	LT	5.0'	24		0	
	58+15.66	58+25.66	LT	5.0'		6	0	
	58+25.66	60+45.32	LT	5.0'	122		0	
	60+89.60	62+83.64	LT	5.0'	108		0	
	62+83.64	63+01.64	LT	5.0'		10	0	
	63+01.64	63+83.66	LT	5.0'	46		0	
	63+83.66	63+93.66	LT	5.0'		6	0	
	63+93.66	64+45.12	LT	5.0'	29		0	
	64+45.12	64+55.12	LT	5.0'		6	0	
	64+55.12	66+28.04	LT	5.0'	96		0	
	66+28.04	66+68.04	LT	5.0'		23	0	
	66+68.04	67+75.35	LT	5.0'	60		0	
	67+75.35	67+85.35	LT	5.0'		6	0	
	67+85.35	69+50.39	LT	5.0'	92		0	
	69+50.39	69+80.39	LT	5.0'		17	0	
	69+80.39	70+00.00	LT	5.0'	11		0	
	43+50.00	46+71.45	RT	5.0'	179		0	
	46+71.45	46+95.61	RT	5.0'		14	0	
	46+95.61	55+35.28	RT	5.0'	467		0	
	55+78.45	57+07.28	RT	5.0'	72		0	
	57+07.28	57+37.28	RT	5.0'		17	0	
	57+37.28	58+17.77	RT	5.0'	45		0	
	58+17.77	58+27.77	RT	5.0'		6	0	
	58+27.77	59+58.62	RT	5.0'	73		0	
	59+58.62	59+68.62	RT	5.0'		6	0	
	59+68.62	60+72.23	RT	5.0'	58		0	
	60+72.23	60+82.23	RT	5.0'		6	0	
	60+82.23	62+59.75	RT	5.0'	99		0	
	62+59.75	62+79.75	RT	5.0'		12	0	
	62+79.75	63+73.20	RT	5.0'	52		0	
	63+73.20	63+93.20	RT	5.0'		12	0	
	63+93.20	65+53.11	RT	5.0'	89		0	
	65+53.11	65+73.11	RT	5.0'		12	0	
	65+73.11	67+71.82	RT	5.0'	111		0	
	67+71.82	67+81.82	RT	5.0'		6	0	
	67+81.82	68+52.60	RT	5.0'	40		0	
	68+52.60	68+62.60	RT	5.0'		6	0	
	68+62.60	69+54.22	RT	5.0'	51		0	
	69+54.22	69+64.22	RT	5.0'		6	0	
	69+64.22	70+00.00	RT	5.0'	20		0	
CHURCH STREET DECEL LANE	5+27.86	7+55.33	RT	5.0'	127		0	
OAKWOOD AVENUE DECEL LANE	5+00.00	5+87.43	RT	5.0'	49		0	
	5+87.43	6+01.98	RT	5.0'		9	0	
	6+01.98	6+21.68	RT	5.0'	11		0	
	6+21.68	6+36.98	RT	5.0'		9	0	
	6+36.98	8+62.68	RT	5.0'	126		0	
FREDERICK AVE.	1+10.00	1+30.00	RT	5.0'	29			
TOTALS					3103	262		

REQUIRED PERMANENT BARRICADES

STATION	713A-000 LENGTH LIN FT	SPECIAL OR STANDARD DRAWING	REMARKS
2+70.00 (ORCHARD STREET)	20.0	B	
TOTALS:	20.0		

LEGEND

A: OMIT
B: B-713
C: OMIT
D: OMIT
E: OMIT
F: OMIT
G: OMIT
H: TCM-703
I: PM-705-1
J: PM-705-2
K: PM-705-6
L: PS-701-5
M: OMIT
N: PS-701-4
O: OMIT
P: OMIT
Q: SW-618
R: SEE SHEET 2-F

SUMMARY OF QUANTITIES

REQUIRED PERMANENT CLASS 4 & 8 ROADWAY SIGNS

ITEM NUMBER	SHEET NO.	STATION	LOCATION	SIGN DESIGNATION	DESCRIPTION	QUANTITY	SIGN SIZE	CLASS 4, ALUMINUM FLAT SIGN PANELS 0.08" THICK OR STEEL FLAT SIGN PANELS 14 GAUGE (TYPE III OR TYPE IV BACKGROUND) 710A-115 SQ FT	CLASS 8, ALUMINUM FLAT SIGN PANELS 0.08" THICK OR STEEL FLAT SIGN PANELS 14 GAUGE (TYPE IX BACKGROUND) 710A-126 SQ FT	POSTS NUMBER OF POST	POSTS No. 3 CHANNEL GALV. STEEL 710B-001 LIN FT	SPECIAL OR STANDARD DRAWING
1	17	CHURCH ST STA 46+01	RT	R2-1	SPEED LIMIT 35	1	24" X 30"	5.00		1	12	J, N, O, P
7	19	PEARL AVE STA 2+54	RT	R1-1	STOP	1	30" X 30"		5.18	1	12	J, N, O, P, Q
2	18	PEARL AVE STA 2+54	RT	D3-1	PEARL AVE	1	33" X 12"	2.75				L, M, N, O, P
2	18	PEARL AVE STA 2+54	RT	D3-1	CHURCH ST	1	33" X 12"	2.75				L, M, N, O, P
3	18	PEARL AVE STA 3+47	LT	R1-1	STOP	1	30" X 30"		5.18	1	12	J, N, O, P, Q
3	18	PEARL AVE STA 3+47	LT	D3-1	PEARL AVE	1	33" X 12"	2.75				L, M, N, O, P
3	18	PEARL AVE STA 3+47	LT	D3-1	CHURCH ST	1	33" X 12"	2.75				L, M, N, O, P
4	18	DEMASTERS AVE STA 2+51	RT	R1-1	STOP	1	30" X 30"		5.18	1	12	J, N, O, P, Q
4	18	DEMASTERS AVE STA 2+51	RT	D3-1	DEMASTERS AVE	1	46" X 12"	3.83				L, M, N, O, P
4	18	DEMASTERS AVE STA 2+51	RT	D3-1	CHURCH ST	1	33" X 12"	2.75				L, M, N, O, P
5	18	CHURCH ST STA 61+72	LT	R2-1	SPEED LIMIT 35	1	24" X 30"	5.00		1	12	J, N, O, P
6	19	CHURCH ST STA 67+70	RT	R3-7	RIGHT LANE MUST TURN RIGHT	1	30" X 30"	6.25		1	12	K, N, O, P
7	19	CHURCH ST STA 71+56	RT	R1-2	YIELD	1	36" X 36"		3.90	1	12	J, N, O, P, Q
8	18	PEARL AVE STA 5+66	RT	R1-1	STOP	1	30" X 30"		5.18	1	12	J, N, O, P, Q
8	18	PEARL AVE STA 5+48	RT	D3-1	PEARL AVE	1	33" X 12"	2.75				L, M, N, O, P
8	18	PEARL AVE STA 5+48	RT	D3-1	ORCHARD ST	1	36" X 12"	3.00				L, M, N, O, P
9	18	ORCHARD ST STA 8+73	LT	R1-1	STOP	1	30" X 30"		5.18	1	12	J, N, O, P, Q
10	18	ORCHARD ST STA 7+94	RT	R1-1	STOP	1	30" X 30"		5.18	1	12	J, N, O, P, Q
11	18	FREDERICK AVE STA 1+17	LT	R1-1	STOP	1	30" X 30"		5.18	1	12	J, N, O, P, Q
12	18	ORCHARD ST STA 5+57	LT	W14-1	DEAD END	1	30" X 30"	6.25		1	12	I, N, O, P
13	18	FREDERICK AVE STA 1+17	LT	D3-1	FREDERICK AVE	1	36" X 12"	3.00			12	L, M, N, O, P
13	18	FREDERICK AVE STA 1+17	LT	D3-1	ORCHARD ST	1	46" X 12"	3.83				L, M, N, O, P
							TOTALS:	53	41		156	

LEGEND

A: OMIT
B: OMIT
C: OMIT
D: OMIT
E: OMIT
F: OMIT
G: OMIT
H: OMIT
I: SHS-14
J: SHS-1
K: SHS-2
L: SHS-18
M: SEE SHEET 59
N: IHS-710-12
O: IHS-710-21
P: IHS-710-23
Q: SL-710

WATER MAIN INSTALLATION

STATION	QUANTITY	ITEM NO.	UNIT	ITEM DESCRIPTION
41+50 - 71+91.66	120	641A-534	LIN FT	1 INCH P.E.WATER SERVICE LINE LAID
48+00	135	641A-536	LIN FT	1½ INCH P.E.WATER SERVICE LINE LAID
41+50 - 71+91.66	1560	641A-612	LIN FT	6 INCH DUCTILE IRON WATER MAIN LAID
41+50 - 71+91.66	3040	641A-618	LIN FT	12 INCH DUCTILE IRON WATER MAIN LAID
49+50	20	641A-682	LIN FT	6 INCH DUCTILE IRON WATER MAIN LAID (RESTRAINED JOINT)
42+00	20	641A-688	LIN FT	12 INCH DUCTILE IRON WATER MAIN LAID (RESTRAINED JOINT)
41+50 - 71+91.66	1434	641C-500	POUND	DUCTILE IRON FITTINGS
41+50 - 71+91.66	9	641D-500	EA	FIRE HYDRANT
41+50 - 71+91.66	15	641J-516	EA	6 INCH GATE VALVE WITH BOX
41+50 - 71+91.66	5	641J-522	EA	12 INCH GATE VALVE WITH BOX
41+50 - 71+91.66	31	641L-500	CU YARD	CONCRETE FOR WATER MAINS (THRUST BLOCKS)
41+50 - 71+91.66	75	641M-512	EA	6 INCH RETAINER GLAND
41+50 - 71+91.66	31	641M-518	EA	12 INCH RETAINER GLAND
8+00 (Orchard St)	1	641N-510	EA	6 INCH x 6 INCH ANCHOR TEE
41+50 - 71+91.66	7	641N-540	EA	12 INCH x 6 INCH ANCHOR TEE
71+91.66	1	641O-614	EA	18 INCH x 12 INCH TAPPING VALVE AND SLEEVE
41+50 - 71+91.66	4	641P-520	EA	1 INCH SERVICE TAP
48+00	1	641P-525	EA	1½ INCH SERVICE TAP
41+50 - 71+91.66	5	641Q-515	EA	1 INCH WATER METER AND BOX SET

SUMMARY OF QUANTITIES

REQUIRED DRAINAGE SUMMARY

DRAINAGE SHEET	LOCATION: STATION	LOCATION: SKEW	LOCATION: OFFSET	DRAINAGE STRUCTURE INV'T SUMMARY	ROADWAY PIPE (CL 3 RL) 18"	24"	30"	2-SPAN. 14"RISE	STORM SEWER PIPE (CL 3 RC) 18"	24"	30"	36"	42"	JUNCTION BOXES TYPE I OR IP	JUNCTION BOX UNITS TYPE I OR IP	INLETS TYPE S1 OR S3 (2 WING)	INLETS TYPE S1 OR S3 (2 WING)	INLETS INLET TYPE C	INLET UNITS TYPE S1 OR S3	STRUCTURE EXCAVATION	FOUNDATION BACKFILL COMMERCIAL	STANDARD OR SPECIAL DRAWING NUMBER
	ITEM NO.				530A 001	530A 002	530A 003	530B 001	533A-098	533A 099	533A-100	533A 101	533A-102	621A 011	621B 011	621C-015	621C-017	621C 027	621D-015	214A 000	214B 001	
					LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	EACH	EACH	CU YD	CU YD	
47	39+75.00	0°	LT	53-54									43	1	1			1		18	15	A.B.E.F
47	42+00.00	0°	RT	77-78					152											89	38	E.F.G
47	42+00.00	0°	LT	51-52					6											8	3	D.E.F.H
47	42+00.00	0°	LT	52-53									220	1	2					314	79	A.B.E.F
48	43+90.00	0°	LT	49-50					6											9	3	D.E.F.H
48	43+90.00	0°	LT	50-52									184	1	2					292	66	A.B.E.F
48	45+00.00	0°	LT	47-48					6							1				13	4	D.E.F.H
48	45+00.00	0°	LT	48-50									100	1	2					154	36	A.B.E.F
48	46+50.00	0°	LT	45-46					6											13	4	D.E.F.H
48	46+50.00	0°	LT	46-48									139	1	2					254	50	A.B.E.F
49	48+25.00	0°	RT	41-42		158								1	2					149	44	A.B.E.F
49	48+25.00	0°	RT	42-43		68														86	48	E.F
49	48+25.00	0°	LT	43-44						6						1			1	14	4	D.E.F.H
49	48+25.00	0°	LT	44-46									162	1	2					356	59	A.B.E.F
49	49+75.00	0°	RT	23												1						D.H
49	49+75.00	0°	LT	29-30					6					1	2	1				8	3	A.B.D.E.F.H
49	49+75.00	0°	LT	30-44								142								240	47	E.F
49	50+70.00	0°	RT	23-25					91								1		1	89	23	D.E.F.H
49	50+70.00	0°	RT	25-27		68														53	48	E.F
49	50+70.00	0°	LT	27-28							6					1			1	11	4	D.E.F.H
49	50+70.00	0°	LT	28-30								90		1	2					130	30	A.B.E.F
49	51+65.00	0°	LT	13-14					6							1			1	10	3	D.E.F.H
49	51+65.00	0°	LT	14-28								90		1	2					140	30	A.B.E.F
50	52+60.00	0°	RT	21-25						185						1			1	220	51	D.E.F.H
50	54+00.00	0°	RT	17-19					135							1			1	101	34	D.E.F.H
50	54+00.00	0°	RT	19-21						131										133	33	E.F
50	54+00.00	0°	LT	12-14							240			1	2					288	73	A.B.E.F
50	55+50.00	0°	LT	10-12							153			1	1					181	47	A.B.E.F
51	56+00.00	0°	RT	95												1						D.H
51	56+00.00	0°	LT	8-10			49							1	2					61	42	A.B.E.F
51	57+84.60	0°	RT	95-96					177							1			1	192	44	D.E.F.H
51	57+84.60	0°	LT	93													1					D.H
51	57+84.60	0°	LT	6-8							185			1	2					230	57	A.B.E.F
51	59+21.39	0°	RT	94-97		68										1			2	49	19	D.E.F.H
51	59+21.39	0°	RT	96-97						135										183	38	E.F
51	59+21.39	0°	LT	93-94					132							1			1	117	33	D.E.F.H
51	60+45.00	0°	LT	4-6							257			1	2					283	79	A.B.E.F
52	61+08.00	0°	RT	91-97							185					1			1	279	57	D.E.F.H
52	61+08.00	0°	LT	92-94					182							1				170	46	D.E.F.H
52	63+25.00	0°	RT	89-90	68											1			1	81	17	D.E.F.H
52	63+25.00	0°	RT	90-91							211									318	65	E.F
52	63+25.00	0°	LT	89												1						D.H
52	65+00.00	0°	RT	87-90						171						1			1	219	48	D.E.F.H
52	65+00.00	0°	LT	88-89					171							1				182	43	D.E.F.H
53	67+00.00	0°	RT	85-86	68					196						1			1	78	17	D.E.F.H
53	67+00.00	0°	RT	85												1						D.H
53	69+25.00	0°	RT	83-86						221						1			1	254	61	D.E.F.H
53	69+25.00	0°	LT	84-85					221							1				195	55	D.E.F.H
53	70+50.00	0°	RT	80-82	68											1			1	69	17	D.E.F.H
53	70+50.00	0°	RT	82-83						121										143	34	E.F
53	70+50.00	0°	LT	80												1			1			D.H
53	71+00.00	0°	RT	81-82					46							1				50	12	D.E.F.H
53	71+00.00	0°	LT	79-80					49								1			42	12	D.E.F.H
54	DEMASTERS AVE/1+42.68	0°	RT	2-4							108			1	1					106	32	A.B.E.F
54	DEMASTERS AVE/1+42.68	0°	LT	1-2			36							1	1					21	11	A.B.E.F
54	FREDERICK AVE/1+23.96	0°	RT	34-35				44									1			26	12	D.E.F.H
54	FREDERICK AVE/1+23.96	0°	LT	35-36	24												1		1	18	6	D.E.F.H
54	PEARL AVE/3+71.53	0°	RT	17													1		1			D.H
54	PEARL AVE/3+71.53	0°	LT	15-17	25												1			21	6	D.E.F.H
54	ORCHARD ST./3+00.00	0°	RT	40-41	25											1				17	6	D.E.F.H
54	ORCHARD ST./3+00.00	0°	LT	41												1			1			D.H
55	ORCHARD ST./5+00.00	0°	RT	38-39	25											1				14	6	D.E.F.H
55	ORCHARD ST./5+00.00	0°	LT	39-41						196						1			1	221	54	D.E.F.H
55	ORCHARD ST./6+50.00	0°	RT	36-37	25											1			1	16	6	D.E.F.H
55	ORCHARD ST./6+50.00	0°	LT	37-39						146						1			1	165	41	D.E.F.H
55	ORCHARD ST./9+00.00	0°	RT	31-32	25											1				12	6	D.E.F.H
55	ORCHARD ST./9+00.00	0°	LT	32-37	246														1	202	60	D.E.F.H
	TOTALS				599	362	85	44	1392	1508	1345	322	848	17	30	35	8	1	24	7407	1921	

	LEGEND
A:	JB-621-B
B:	JB-621-P (2 SHEETS)
C:	OMIT
D:	I-621-SP (3 SHEETS)
E:	RPC-530 (2 SHEETS)
F:	HEP-1
G:	I-621-C (2 SHEETS)
H:	I-621-S

SUMMARY OF QUANTITIES

REQUIRED SANITARY SEWER SUMMARY

SHEET NUMBER	LOCATION STATION	LOCATION OFFSET	MANHOLE NUMBER	DUCTILE IRON SANITARY SEWER GRAVITY PIPE LAID 4" LIN FT	DUCTILE IRON 6" LIN FT	DUCTILE IRON 8" LIN FT	PVC SANITARY SEWER GRAVITY PIPE LAID 4" LIN FT	PVC 8" LIN FT	48 INCH MANHOLE EACH	48 INCH MANHOLE UNIT EACH	MINOR CONCRETE STRUCTURE CU YD
		ITEM NO.		645A-506	645A-508	645A-510	645A-544	645A-548	645H-510	645J-500	620A-000
21	9+90.72 (EAST SIDE)	℄	1-2			180			1	4	
21	11+70.72 (EAST SIDE)	℄	2								
21	11+70.72 (EAST SIDE)	℄	2-3			62			1	4	
21	12+31.80 (EAST SIDE)	℄	3								
21	12+31.80 (EAST SIDE)	℄	3-4			430			1	1	0.1
21	13+79.69 (EAST SIDE)	129.03' LT	33				4		1	2	
21B	16+61.41 (EAST SIDE)	℄	4			106					
21B	16+61.41 (EAST SIDE)	℄	4-5						1	2	
21B	17+66.86 (EAST SIDE)	℄	5			110					
21B	17+66.86 (EAST SIDE)	℄	5-30		20				1	2	
21B	17+66.86 (EAST SIDE)	106.84' LT	30					280			
21B	17+66.86 (EAST SIDE)	℄	5-6				17				
21B	17+74.86 (EAST SIDE)	℄	LATERAL				18				
21B	18+81.94 (EAST SIDE)	℄	LATERAL				18				
21B	19+06.38 (EAST SIDE)	℄	LATERAL				14				
21B	19+67.90 (EAST SIDE)	℄	LATERAL						1	2	
21B	20+46.82 (EAST SIDE)	℄	6			100					
21B	20+46.82 (EAST SIDE)	℄	6-29						1		
21B	20+46.82 (EAST SIDE)	99.47' RT	29			109					
21B	20+46.82 (EAST SIDE)	℄	6-17					350			
21B	20+46.82 (EAST SIDE)	℄	6-7				22				
21B	20+68.22 (EAST SIDE)	℄	LATERAL				24				
21B	22+81.47 (EAST SIDE)	℄	LATERAL				21				
21B	23+65.19 (EAST SIDE)	℄	LATERAL						1	3	
21B	23+96.82 (EAST SIDE)	℄	7					328			
21B	23+96.82 (EAST SIDE)	℄	7-8				30				
21B	25+15.94 (EAST SIDE)	℄	LATERAL				29				
21B	26+16.76 (EAST SIDE)	℄	LATERAL				28				
21B	26+42.61 (EAST SIDE)	℄	LATERAL				16				
21B	27+15.35 (EAST SIDE)	℄	LATERAL						1	3	
21B	27+23.89 (EAST SIDE)	℄	8					350			
21B	27+23.89 (EAST SIDE)	℄	8-9						1	2	
21D	30+73.89 (EAST SIDE)	℄	9					280			
21D	30+73.89 (EAST SIDE)	℄	9-10				18				
21D	32+00.95 (EAST SIDE)	℄	LATERAL				18				
21D	32+43.48 (EAST SIDE)	℄	LATERAL				17				
21D	32+94.45 (EAST SIDE)	℄	LATERAL				19				
21D	33+41.67 (EAST SIDE)	℄	LATERAL						1	2	
21D	33+53.34 (EAST SIDE)	℄	10			198					
21D	33+53.34 (EAST SIDE)	℄	10-11				18				
21D	33+80.07 (EAST SIDE)	℄	LATERAL				19		1	1	
21D	35+40.90 (EAST SIDE)	63.09' RT	34						1	1	
21D	35+50.95 (EAST SIDE)	℄	11					225			
21D	35+50.95 (EAST SIDE)	℄	11-12				19				
21D	35+84.74 (EAST SIDE)	℄	LATERAL				20				
21D	37+60.27 (EAST SIDE)	℄	LATERAL						1	2	
21D	37+75.01 (EAST SIDE)	℄	12					350			
21D	37+75.01 (EAST SIDE)	℄	12-13				20				
21D	38+13.61 (EAST SIDE)	℄	LATERAL				20				
21D	38+65.46 (EAST SIDE)	℄	LATERAL				20				
21D	39+14.44 (EAST SIDE)	℄	LATERAL				20				
21D	39+61.24 (EAST SIDE)	℄	LATERAL				20				
21D	40+10.51 (EAST SIDE)	℄	LATERAL				20				
21D	40+65.34 (EAST SIDE)	℄	LATERAL				20				
21D	41+10.50 (EAST SIDE)	℄	LATERAL						1	2	
21D	41+25.01 (EAST SIDE)	℄	13					350			
21D	41+25.01 (EAST SIDE)	℄	13-14				20				
21D	41+62.94 (EAST SIDE)	℄	LATERAL				20				
21D	42+14.50 (EAST SIDE)	℄	LATERAL				20				
21D	42+99.71 (EAST SIDE)	℄	LATERAL				20				
21D	43+15.36 (EAST SIDE)	℄	LATERAL				20				
21D	44+65.36 (EAST SIDE)	℄	LATERAL						1	1	
21D	44+75.01 (EAST SIDE)	℄	14					350			
21F	44+75.01 (EAST SIDE)	℄	14-15				20				
21F	45+64.83 (EAST SIDE)	℄	LATERAL				19				
21F	45+60.44 (EAST SIDE)	℄	LATERAL				20				
21F	47+60.19 (EAST SIDE)	℄	LATERAL						1	1	
21F	48+25.01 (EAST SIDE)	℄	15					225			
21F	48+25.01 (EAST SIDE)	℄	15-16								
			SUBTOTAL:	0	20	1295	688	3088	18	35	1

REQUIRED SANITARY SEWER SUMMARY

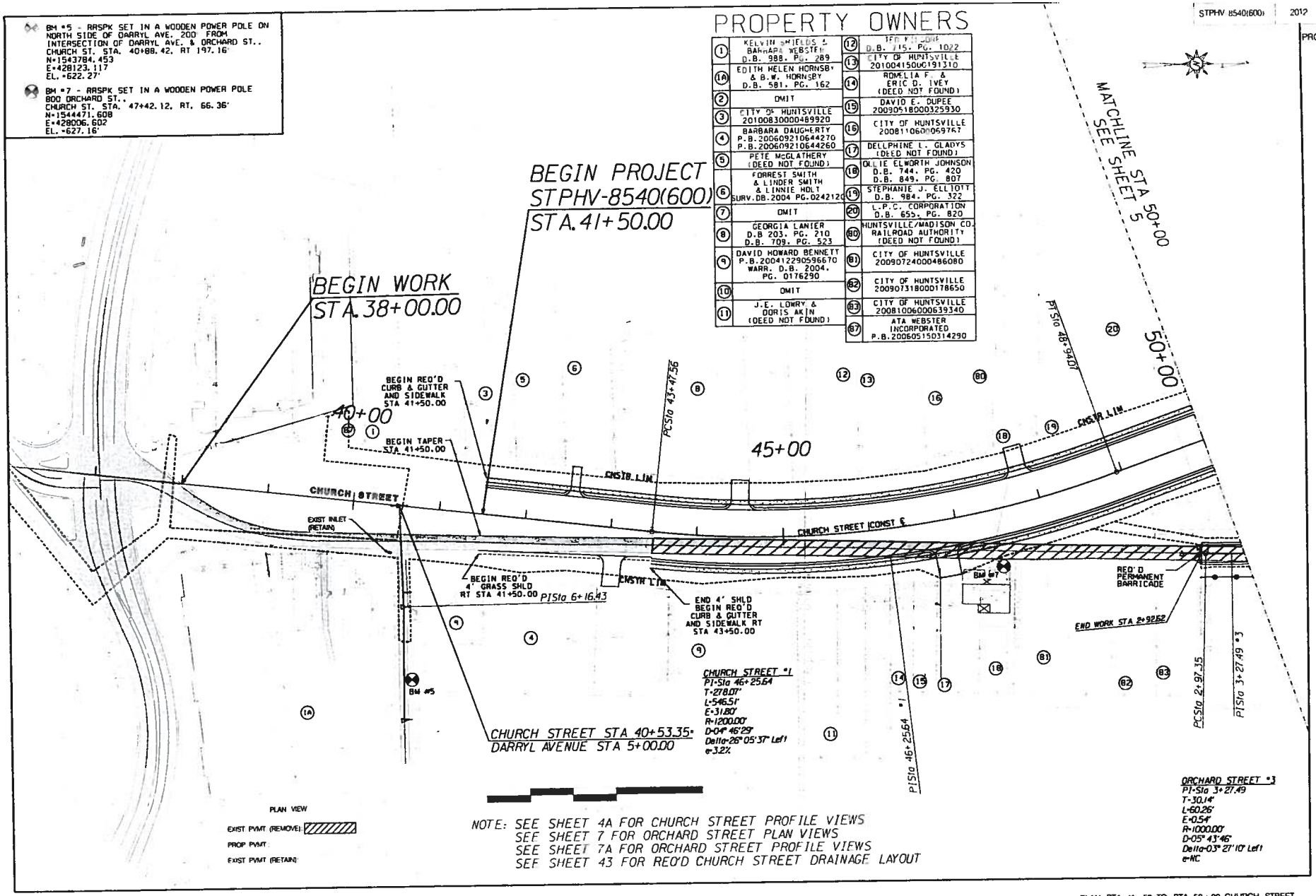
SHEET NUMBER	LOCATION STATION	LOCATION OFFSET	MANHOLE NUMBER	DUCTILE IRON SANITARY SEWER GRAVITY PIPE LAID 4" LIN FT	DUCTILE IRON 6" LIN FT	DUCTILE IRON 8" LIN FT	PVC SANITARY SEWER GRAVITY PIPE LAID 4" LIN FT	PVC 8" LIN FT	48 INCH MANHOLE EACH	48 INCH MANHOLE UNIT EACH	MINOR CONCRETE STRUCTURE CU YD
		ITEM NO.		645A-506	645A-508	645A-510	645A-544	645A-548	645H-510	645J-500	620A-000
21F	48+34.31 (EAST SIDE)	℄	LATERAL				20				
21F	48+56.91 (EAST SIDE)	℄	LATERAL				20				
21F	49+15.05 (EAST SIDE)	℄	LATERAL				20				
21F	49+65.75 (EAST SIDE)	℄	LATERAL				20				
21F	50+32.57 (EAST SIDE)	℄	LATERAL				20				
21F	50+50.01 (EAST SIDE)	℄	16						1		
21B	60+00.00 (WEST SIDE)	℄	17						1	2	
21B	60+00.00 (WEST SIDE)	℄	17-18					328			
21B	60+56.48 (WEST SIDE)	℄	LATERAL				4				
21B	61+18.71 (WEST SIDE)	℄	LATERAL				4				
21B	61+76.74 (WEST SIDE)	℄	LATERAL				4				
21B	62+28.45 (WEST SIDE)	℄	LATERAL				4				
21B	63+27.53 (WEST SIDE)	℄	18						1	3	
21B	63+27.53 (WEST SIDE)	℄	18-19					173			
21B	64+36.58 (WEST SIDE)	℄	LATERAL				2				
21B	65+00.19 (WEST SIDE)	℄	19						1	3	
21B	65+00.19 (WEST SIDE)	℄	19-20					174			
21B	65+15.02 (WEST SIDE)	℄	LATERAL				4				
21B	66+71.03 (WEST SIDE)	℄	LATERAL				5				
21B	66+73.91 (WEST SIDE)	℄	20						1	3	
21B	66+73.91 (WEST SIDE)	℄	20-21					349			
21B	68+64.54 (WEST SIDE)	℄	LATERAL				2				
21D	70+17.07 (WEST SIDE)	℄	LATERAL				4				
21D	70+22.38 (WEST SIDE)	℄	21						1	3	
21D	70+22.38 (WEST SIDE)	℄	21-22					251			
21D	70+71.99 (WEST SIDE)	℄	LATERAL				6				
21D	71+38.15 (WEST SIDE)	℄	LATERAL				7				
21D	71+82.82 (WEST SIDE)	℄	LATERAL				6				
21D	72+34.09 (WEST SIDE)	℄	LATERAL				5				
21D	72+72.49 (WEST SIDE)	℄	22						1	2	
21D	72+78.35 (WEST SIDE)	℄	22-23					211			
21D	72+82.99 (WEST SIDE)	℄	LATERAL				3				
21D	73+27.97 (WEST SIDE)	℄	LATERAL				5				
21D	74+82.83 (WEST SIDE)	℄	LATERAL	30							
21D	74+82.78 (WEST SIDE)	℄	23						1	3	
21D	74+82.78 (WEST SIDE)	℄	23-31			84					
21D	74+82.78 (WEST SIDE)	84.00' LT	31						1	2	
21D	74+82.78 (WEST SIDE)	℄	23-24					251			
21D	75+31.51 (WEST SIDE)	℄	LATERAL				3				
21D	76+58.14 (WEST SIDE)	℄	LATERAL				5				
21D	77+18.56 (WEST SIDE)	℄	LATERAL				4				
21D	77+33.35 (WEST SIDE)	℄	24						1	2	
21D	77+33.35 (WEST SIDE)	℄	24-25			250					7
21D	77+81.70 (WEST SIDE)	℄	LATERAL	3							
21D	78+43.90 (WEST SIDE)	℄	LATERAL	3							
21D	79+83.00 (WEST SIDE)	℄	25						1	1	
21D	79+83.00 (WEST SIDE)	℄	25-32			84					
21D	79+83.00 (WEST SIDE)	84.00' LT	32						1	1	
21D	79+83.00 (WEST SIDE)	℄	25-26					331			
21D	80+39.86 (WEST SIDE)	℄	LATERAL				4				
21D	80+76.82 (WEST SIDE)	℄	LATERAL				3				
21D	81+23.37 (WEST SIDE)	℄	LATERAL				3				
21D	81+71.95 (WEST SIDE)	℄	LATERAL				3				
21D	82+25.11 (WEST SIDE)	℄	LATERAL				2				
21D	82+68.39 (WEST SIDE)	℄	LATERAL				2				
21D	83+13.35 (WEST SIDE)	℄	26						1	2	
21D	83+13.35 (WEST SIDE)	℄	26-27					350			
21D	83+65.66 (WEST SIDE)	℄	LATERAL				2				
21F	84+39.97 (WEST SIDE)	℄	LATERAL				2				
21F	85+39.72 (WEST SIDE)	℄	LATERAL				2				
21F	86+23.76 (WEST SIDE)	℄	LATERAL				2				
21F	86+63.35 (WEST SIDE)	℄	27						1	1	
21F	86+63.35 (WEST SIDE)	℄	27-28					320			
21F	87+69.52 (WEST SIDE)	℄	LATERAL				3				
21F	88+49.15 (WEST SIDE)	℄	LATERAL				2				
21F	89+22.72 (WEST SIDE)	℄	LATERAL				2				
21F	89+66.40 (WEST SIDE)	℄	LATERAL				3				
21F	89+83.35 (WEST SIDE)	℄	28						1	1	
			SUBTOTAL:	36	0	418	212	2738	15	29	7
			TOTAL:	36	20	1713	900	5826	33	64	8

BM #5 - RRSPK SET IN A WOODEN POWER POLE ON NORTH SIDE OF DARRYL AVE. 200' FROM INTERSECTION OF DARRYL AVE. & ORCHARD ST.. CHURCH ST. STA. 40+88.42, RT 197.16'
N=1543784.453
E=428123.117
EL.=622.27'

BM #7 - RRSPK SET IN A WOODEN POWER POLE 800 ORCHARD ST.. CHURCH ST. STA. 47+42.12, RT. 66.36'
N=1544471.608
E=428006.602
EL.=627.16'

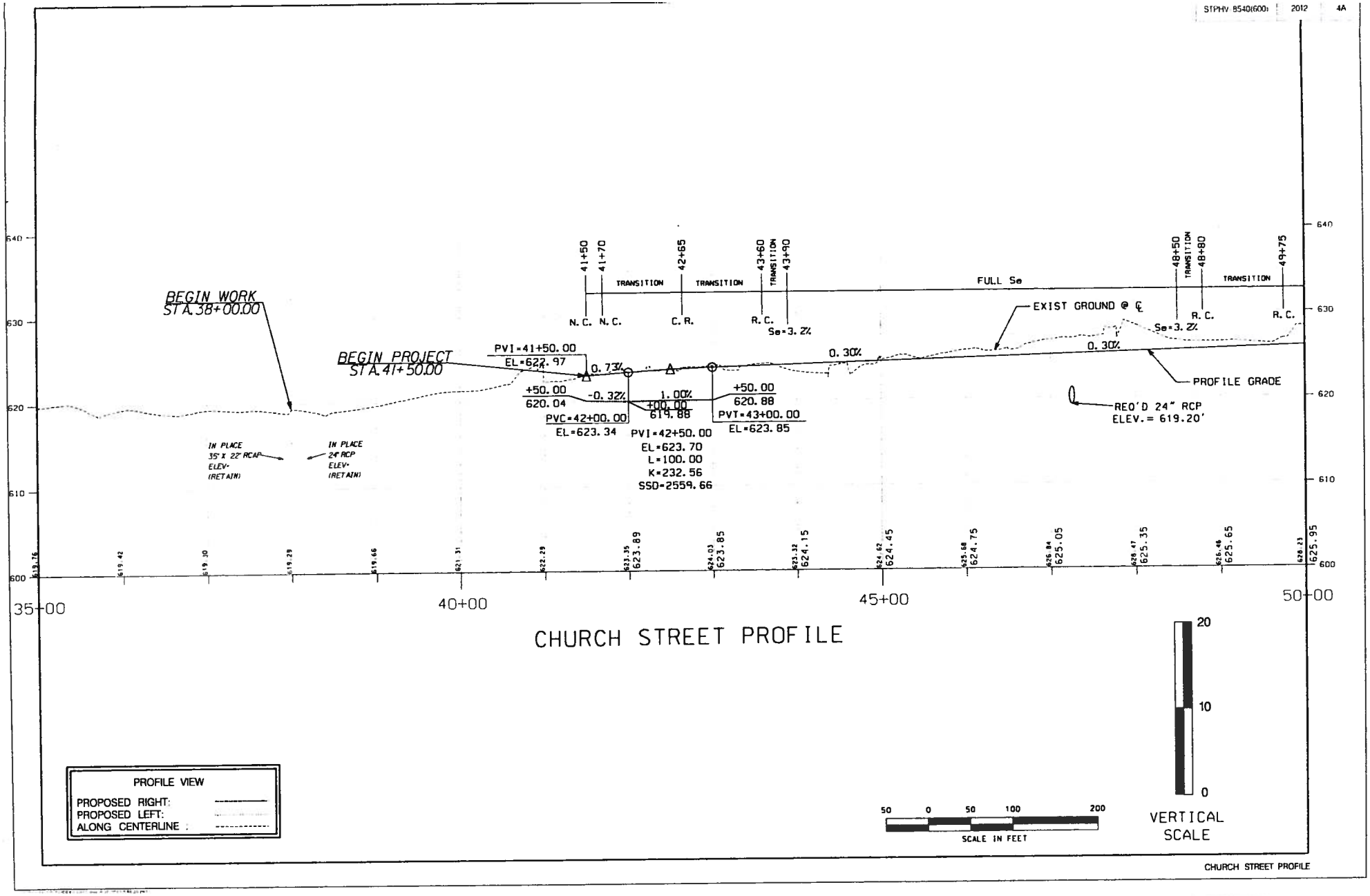
PROPERTY OWNERS

1	KELVIN SHIELDS & BARBARA WEBSTER D.B. 988, PG. 289	12	TED KILGORE D.B. 715, PG. 1022
1A	EDITH HELEN HORNSBY & B.W. HORNSBY D.B. 581, PG. 162	13	CITY OF HUNTSVILLE 20100415000191310
2	OMIT	14	ROMELIA F. & ERIC D. IVEY (DEED NOT FOUND)
3	CITY OF HUNTSVILLE 20100830000489920	15	DAVID E. DUPEE 20090518000325930
4	BARBARA DAUGHERTY P.B.20060921064427O P.B.20060921064426O	16	CITY OF HUNTSVILLE 20081106000697 67
5	PETE McGLATHERY (DEED NOT FOUND)	17	DELLPHINE L. GLADYS (DEED NOT FOUND)
6	FORREST SMITH & LINDER SMITH & LINNIE HOLT SURV.DB.2004 PG.0242120	18	OLLIE ELWORTH JOHNSON D.B. 744, PG. 420 D.B. 849, PG. 807
7	OMIT	19	STEPHANIE J. ELLIOTT D.B. 984, PG. 322
8	GEORGIA LANIER D.B 203, PG. 210 D.B. 709, PG. 523	20	L.P.C. CORPORATION D.B. 655, PG. 820
9	DAVID HOWARD BENNETT P.B.20041229059667O WARR. D.B. 2004, PG. 0176290	80	HUNTSVILLE/MADISON CO. RAILROAD AUTHORITY (DEED NOT FOUND)
10	OMIT	81	CITY OF HUNTSVILLE 20090724000486080
11	J.E. LOWRY & DORIS AKIN (DEED NOT FOUND)	82	CITY OF HUNTSVILLE 20090731000178650
		83	CITY OF HUNTSVILLE 20081106000639340
		87	ATA WEBSTER INCORPORATED P.B.20060515031429O

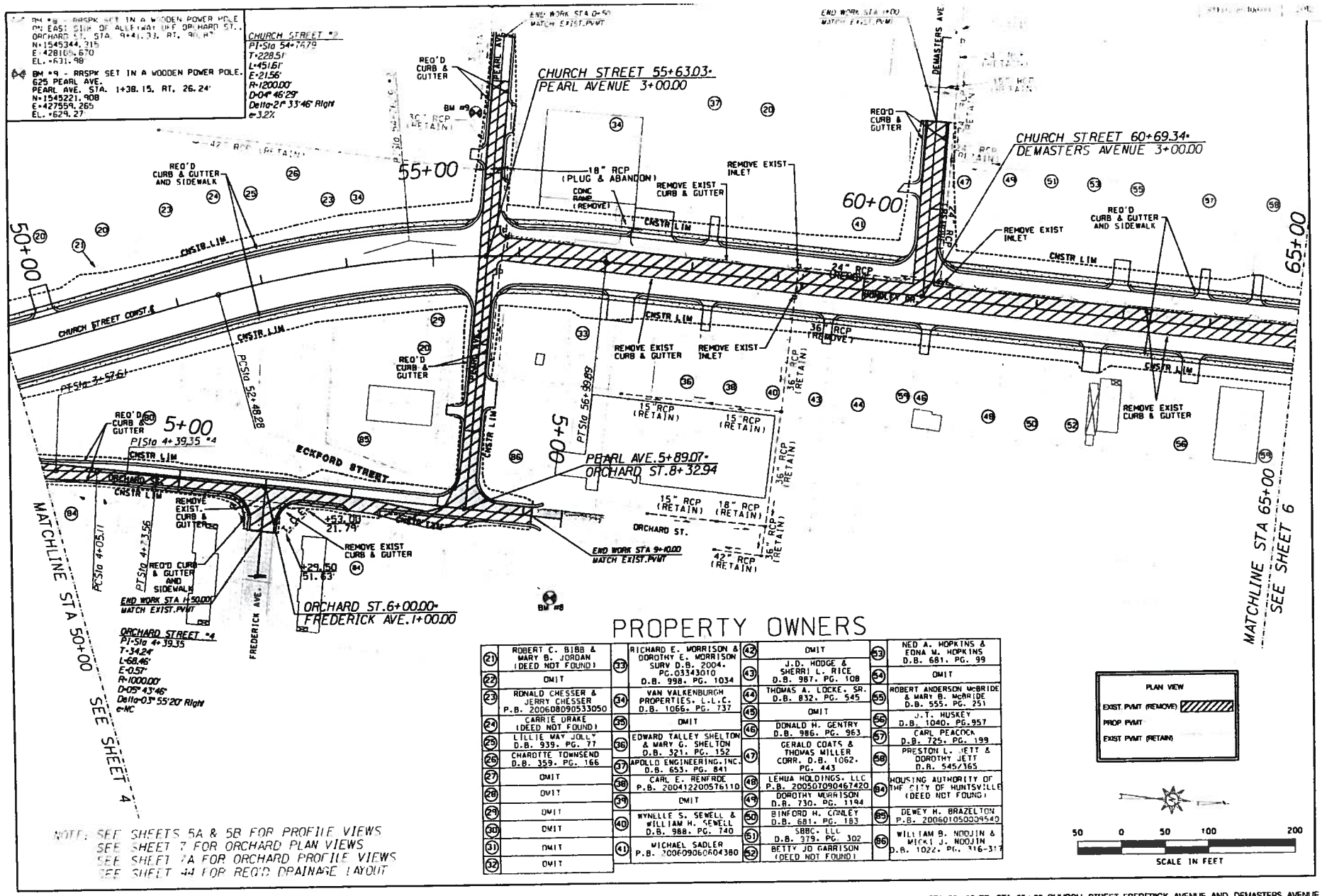


NOTE: SEE SHEET 4A FOR CHURCH STREET PROFILE VIEWS
SEE SHEET 7 FOR ORCHARD STREET PLAN VIEWS
SEE SHEET 7A FOR ORCHARD STREET PROFILE VIEWS
SEE SHEET 43 FOR REQ'D CHURCH STREET DRAINAGE LAYOUT

PLAN STA 41+50 TO STA 50+00 CHURCH STREET



CHURCH STREET PROFILE

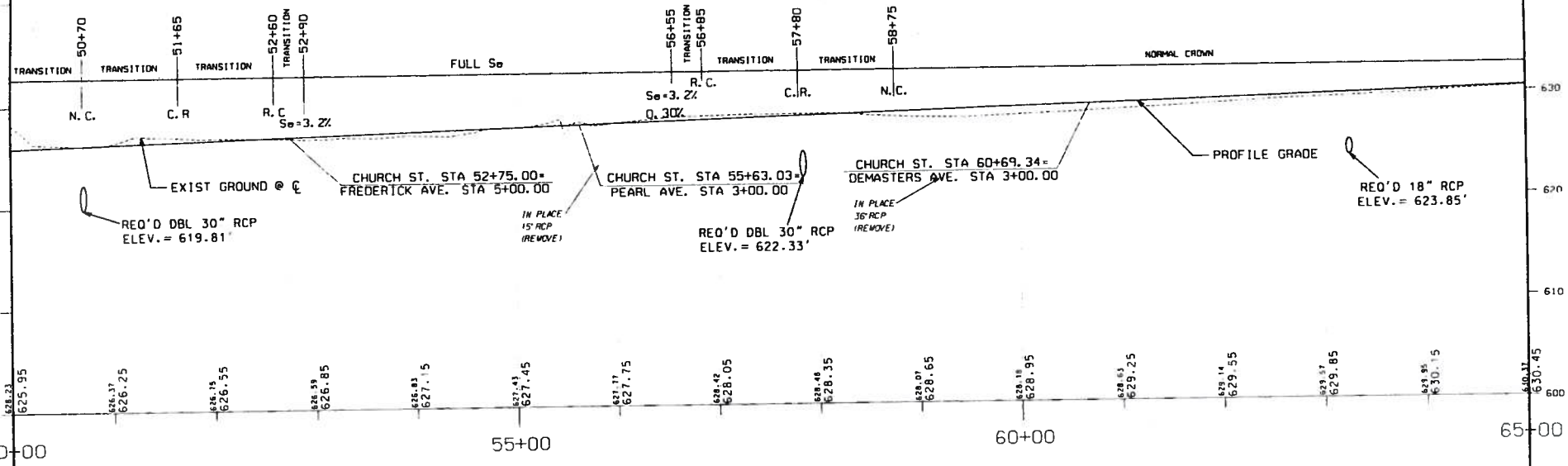


NOTE: SEE SHEETS 5A & 5B FOR PROFILE VIEWS
SEE SHEET 7 FOR ORCHARD PLAN VIEWS
SEE SHEET 7A FOR ORCHARD PROFILE VIEWS
SEE SHEET 4A FOR REQ'D DRAINAGE LAYOUT

PROPERTY OWNERS

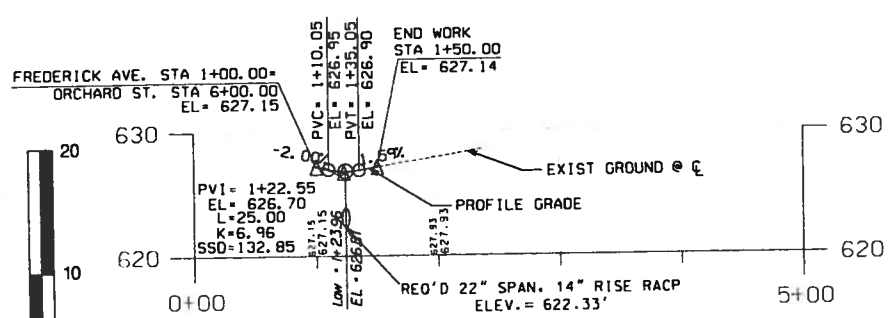
21	ROBERT C. BIBB & MARY B. JORDAN (DEED NOT FOUND)	33	RICHARD E. MORRISON & DOROTHY E. MORRISON SURV D.B. 2004. PG.03343010 D.B. 998. PG. 1034	42	OMIT	53	NED A. HOPKINS & EONA M. HOPKINS D.B. 681. PG. 99
22	OMIT	34	VAN WALKENBURGH PROPERTIES. L.L.C. D.B. 1066. PG. 737	43	J.D. HODGE & SHERRI L. RICE D.B. 987. PG. 108	54	OMIT
23	RONALD CHESSER & JERRY CHESSER P.B. 20060809053305O	35	OMIT	44	THOMAS A. LOCKE. SR. D.B. 832. PG. 545	55	ROBERT ANDERSON McBRIDE & MARY B. McBRIDE D.B. 555. PG. 251
24	CARRIE DRAKE (DEED NOT FOUND)	36	EDWARD TALLEY SHELTON & MARY G. SHELTON D.B. 321. PG. 152	45	OMIT	56	J.T. HUSKEY D.B. 1040. PG.957
25	LILLIE MAY JOLLY D.B. 939. PG. 77	37	APOLLO ENGINEERING.INC. D.B. 653. PG. 841	46	DONALD H. GENTRY D.B. 986. PG. 963	57	CARL PEACOCK D.B. 725. PG. 199
26	CHAROTTE TOWNSEND D.B. 359. PG. 166	38	CARL E. RENFROE P.B. 20041220057611D	47	GERALD COATS & THOMAS MILLER CORR. D.B. 1062. PG. 443	58	PRESTON L. JETT & DOROTHY JETT D.B. 545/165
27	OMIT	39	OMIT	48	LEHUA HOLDINGS. LLC P.B. 20050709046742O	84	HOUSING AUTHORITY OF THE CITY OF HUNTSVILLE (DEED NOT FOUND)
28	OMIT	40	WYNELLE S. SEWELL & WILLIAM H. SEWELL D.B. 988. PG. 740	49	DOROTHY MORRISON D.B. 730. PG. 1194	85	DEWEY H. BRAZELTON P.B. 20060105000954O
29	OMIT	41	MICHAEL SADLER P.B. 20060906060438O	50	BINFORD H. CONLEY D.B. 681. PG. 183	86	WILLIAM B. NOOJIN & MICKI J. NOOJIN D.B. 1022. PG. 316-317
30	OMIT			51	SBBC. LLC D.B. 379. PG. 302		
31	OMIT			52	BETTY JO GARRISON (DEED NOT FOUND)		
32	OMIT						

PLAN STA 50+00 TO STA 65+00 CHURCH STREET, FREDERICK AVENUE AND DEMASTERS AVENUE

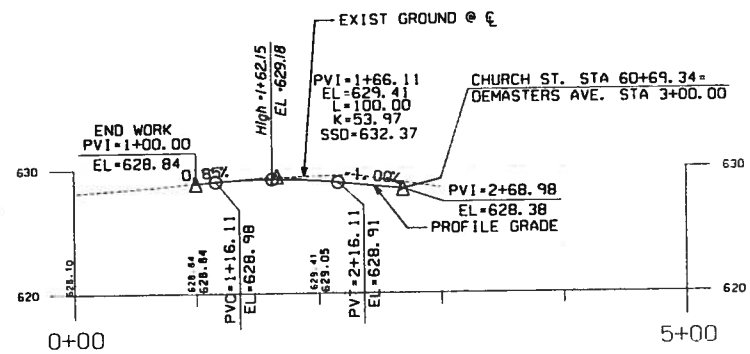


CHURCH STREET PROFILE

PROFILE VIEW	
PROPOSED RIGHT:	———
PROPOSED LEFT:	·····
ALONG CENTERLINE :	- - - -



FREDERICK AVENUE PROFILE



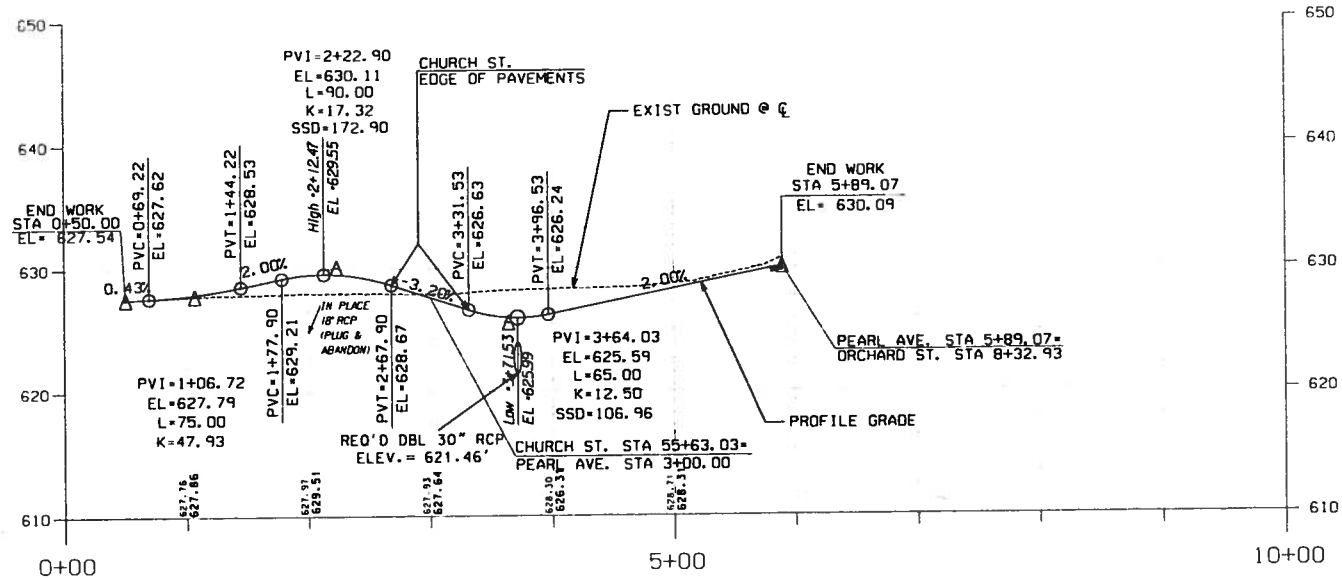
DEMASTERS AVENUE PROFILE

VERTICAL SCALE

20
10
0

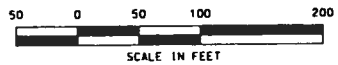
50 0 50 100 200
SCALE IN FEET

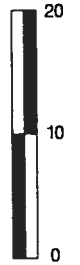
CHURCH STREET FREDERICK AVENUE AND DEMASTERS AVENUE PROFILE SHEET



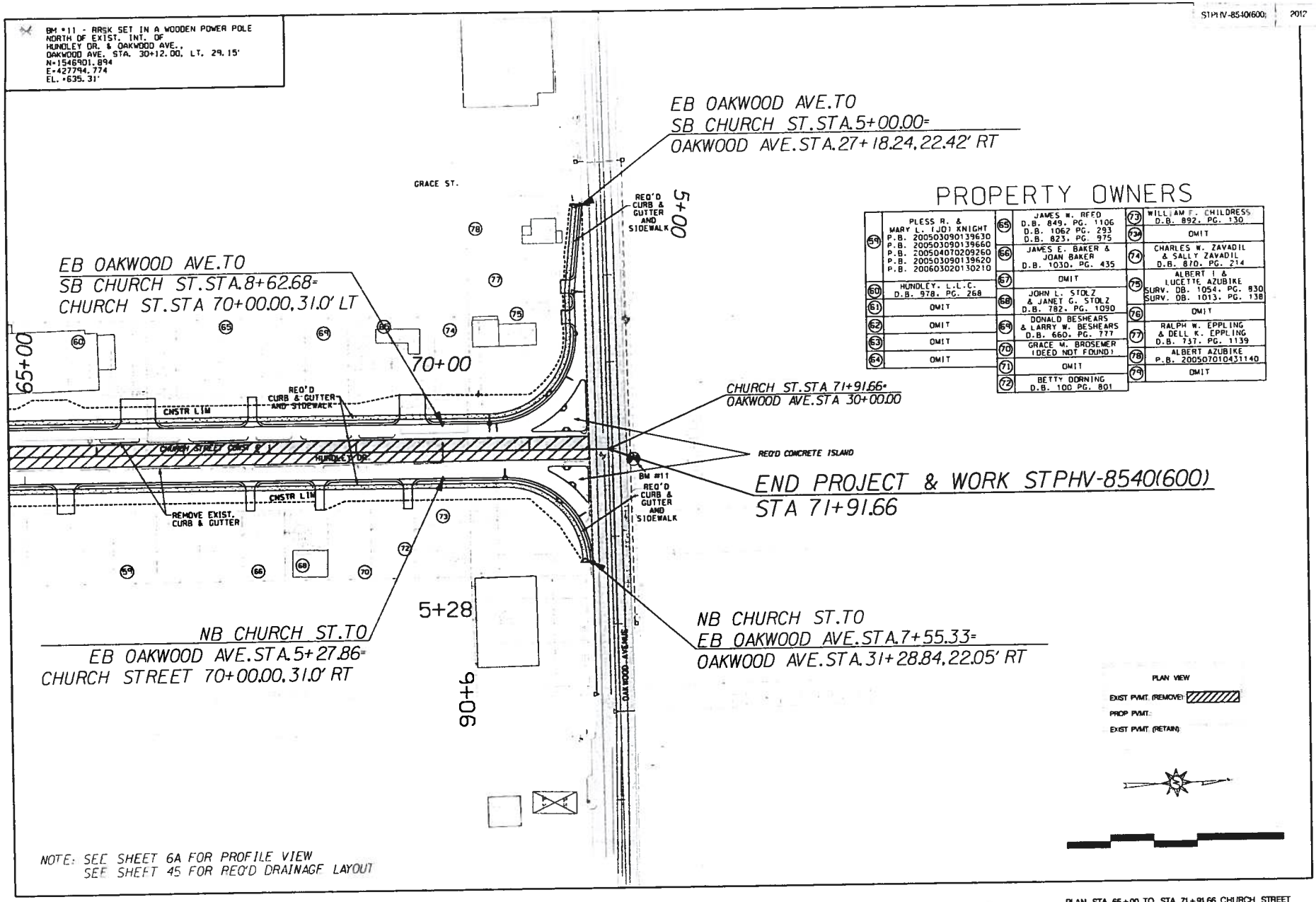
PEARL AVENUE PROFILE

PROFILE VIEW	
PROPOSED RIGHT:	————
PROPOSED LEFT:	————
ALONG CENTERLINE :	- - - - - -





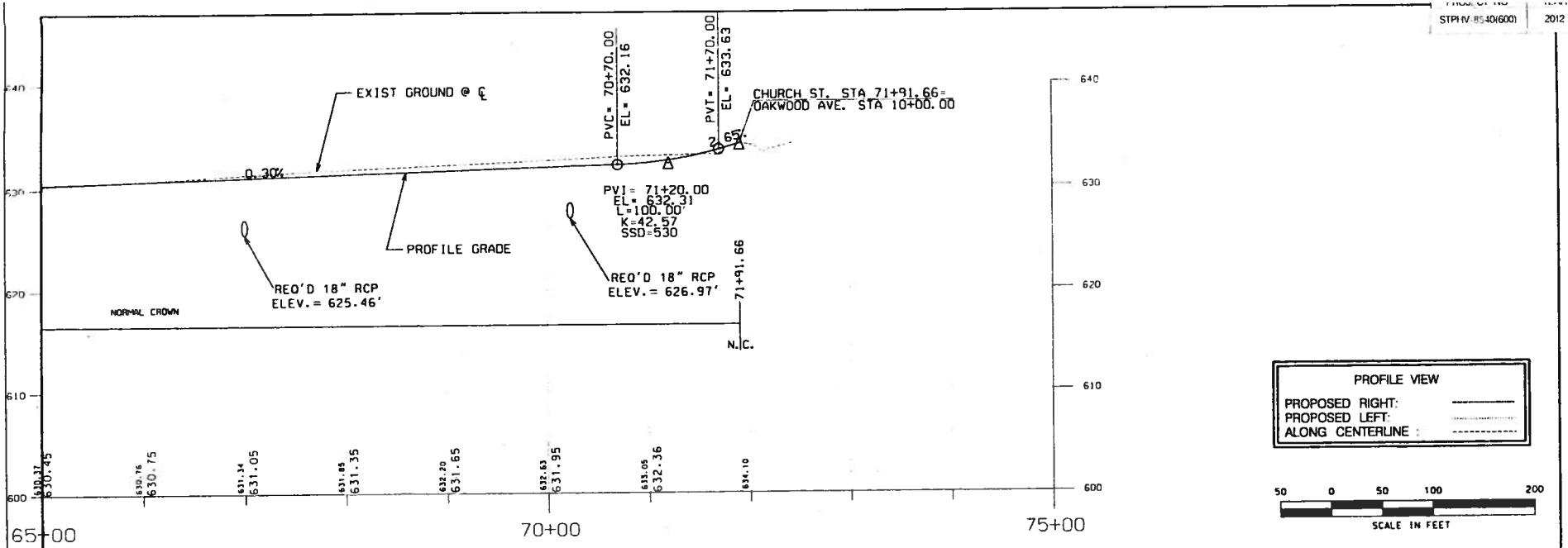
BM #11 - RRSK SET IN A WOODEN POWER POLE
NORTH OF EXIST. INT. OF
HUNDLEY DR. & OAKWOOD AVE.,
OAKWOOD AVE. STA. 30+12.00, LT. 29.15'
N=1546901.894
E=427794.774
EL. =635.31'



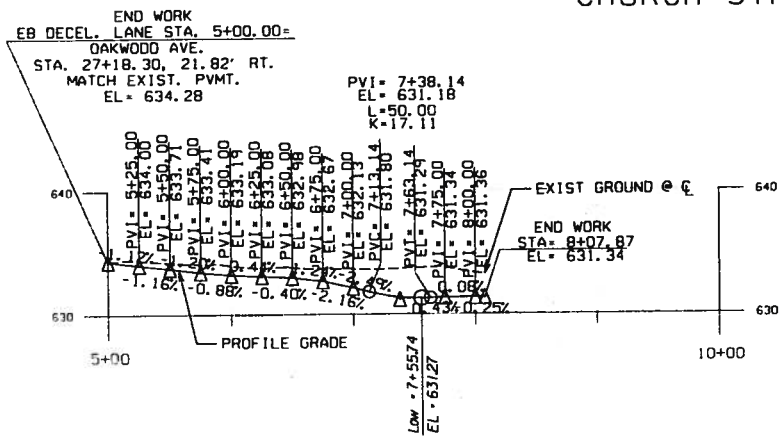
PROPERTY OWNERS

59	PLESS R. & MARY L. (JO) KNIGHT P.B. 200503090139630 P.B. 200503090139660 P.B. 200504070209260 P.B. 200503090139620 P.B. 200603020130210	65	JAMES W. REED D.B. 849, PG. 1106 D.B. 1062 PG. 293 D.B. 823, PG. 975	73	WILLIAM F. CHILDRESS D.B. 892, PG. 130
60	HUNDLEY, L.L.C. D.B. 978, PG. 268	66	JAMES E. BAKER & JOAN BAKER D.B. 1030, PG. 435	74	OMIT
61	OMIT	67	OMIT	75	CHARLES W. ZAVADIL & SALLY ZAVADIL D.B. 870, PG. 214
62	OMIT	68	JOHN L. STOLZ & JANET G. STOLZ D.B. 782, PG. 1090	76	ALBERT I & LUCETTE AZUBIKE SURV. DB. 1054, PG. 830 SURV. DB. 1013, PG. 138
63	OMIT	69	DONALD BESHEARS & LARRY W. BESHEARS D.B. 660, PG. 777	77	OMIT
64	OMIT	70	GRACE M. BROSEMER (DEED NOT FOUND)	78	RALPH W. EPPLING & DELL K. EPPLING D.B. 737, PG. 1139
		71	OMIT	79	ALBERT AZUBIKE P.B. 200507010431140
		72	BETTY DORNING D.B. 100 PG. 801		OMIT

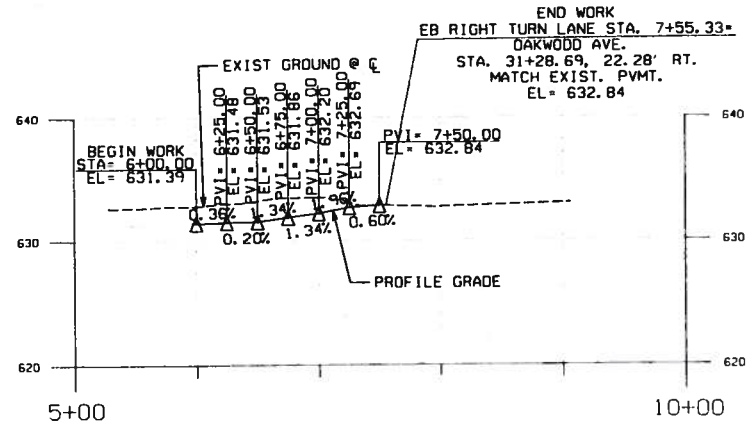
NOTE: SEE SHEET 6A FOR PROFILE VIEW
SEE SHEET 45 FOR REQ'D DRAINAGE LAYOUT



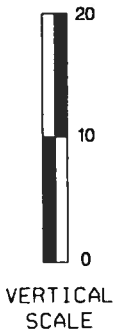
CHURCH STREET PROFILE



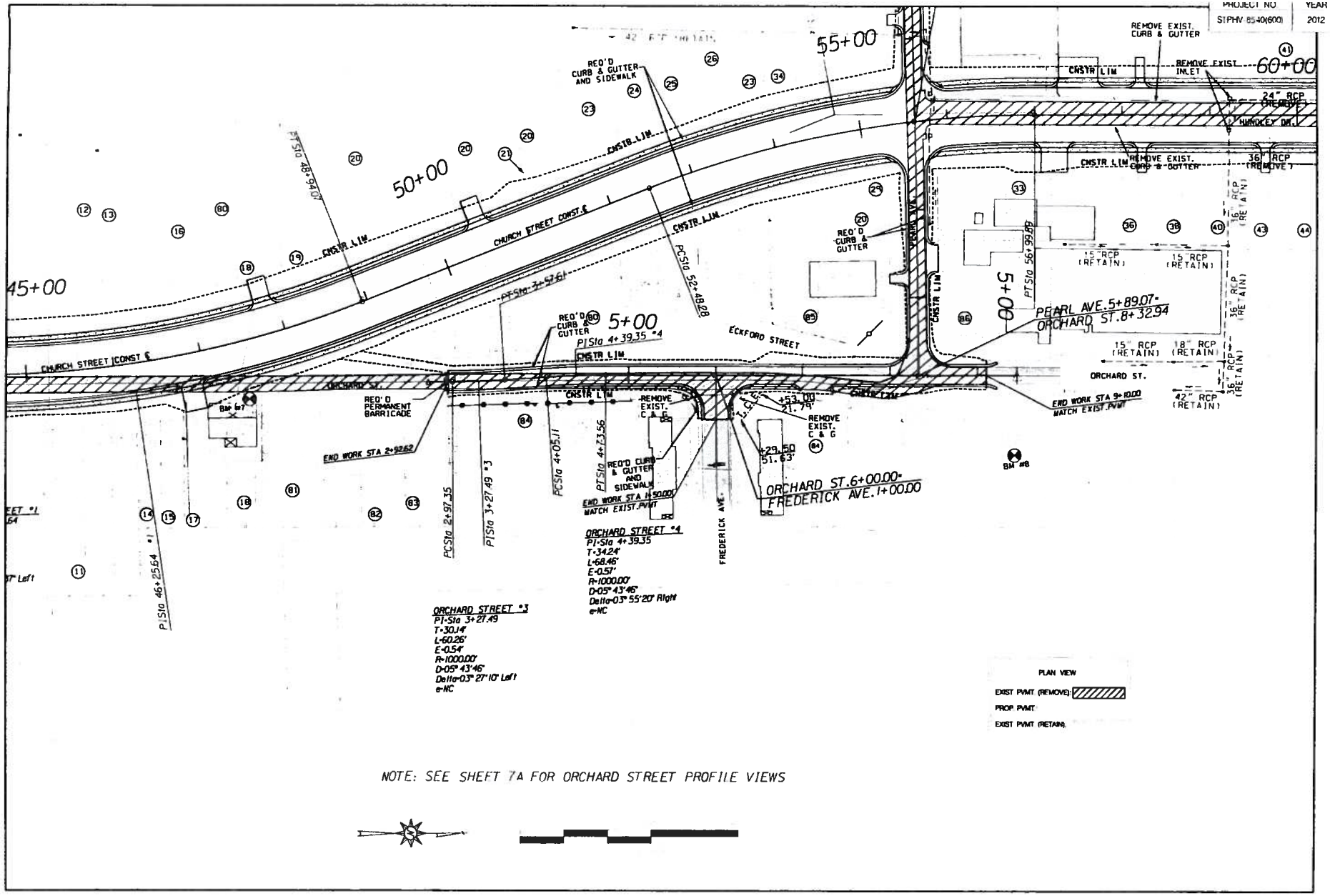
OAKWOOD AVE. TO CHURCH ST.
RIGHT TURN LANE PROFILE



CHURCH ST. TO OAKWOOD AVE.
RIGHT TURN LANE PROFILE

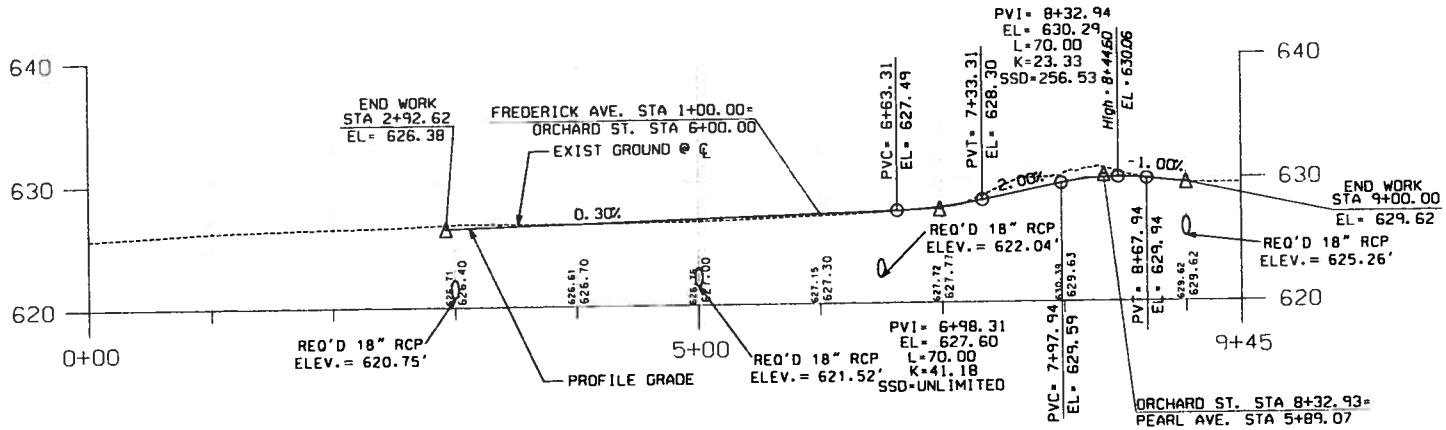


PROJECT NO	YEAR	NO
STPHV 8540(600)	2012	7

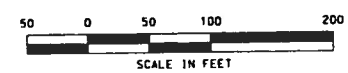


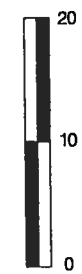
NOTE: SEE SHEET 7A FOR ORCHARD STREET PROFILE VIEWS

PLAN ORCHARD STREET



ORCHARD STREET PROFILE

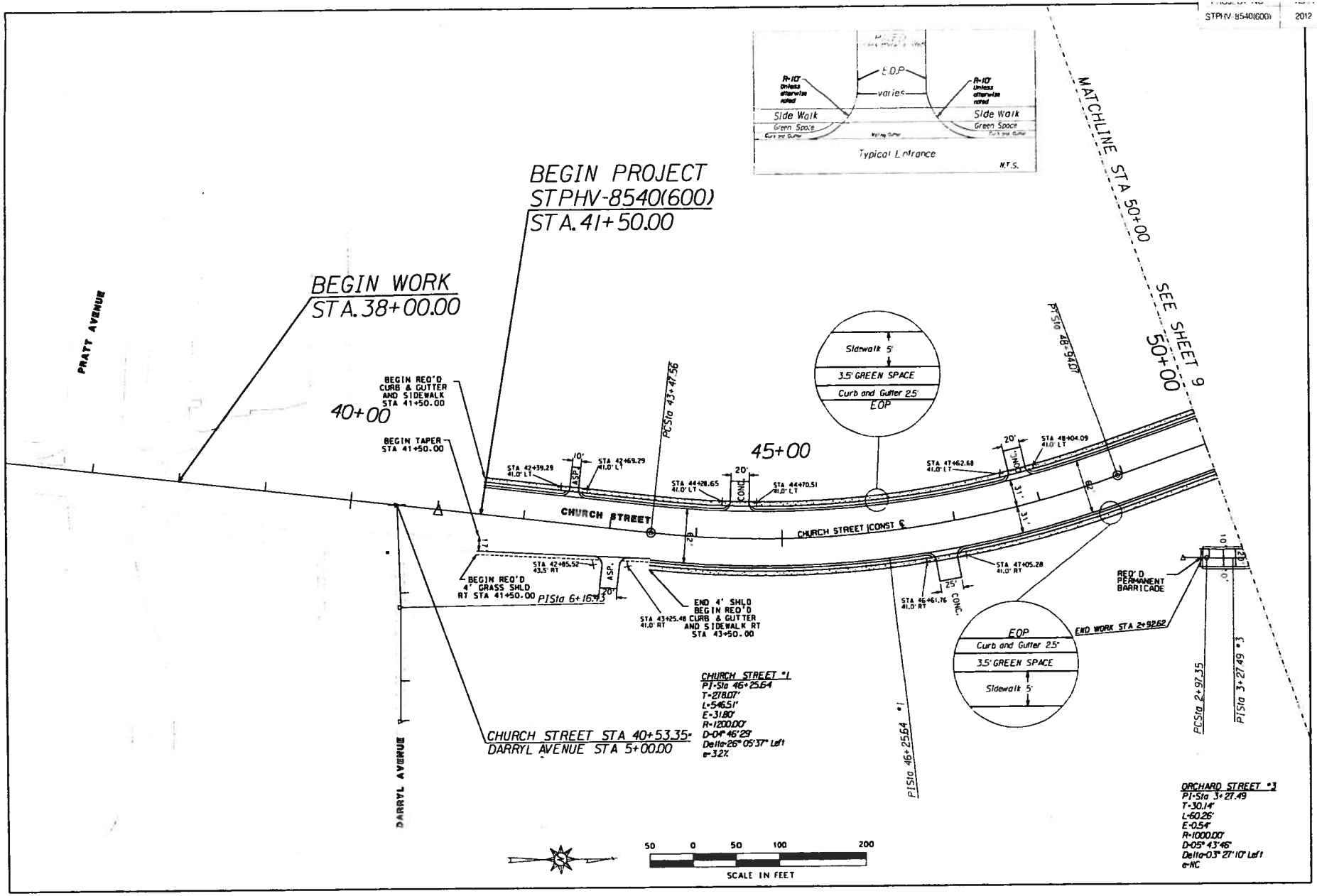




VERTICAL SCALE

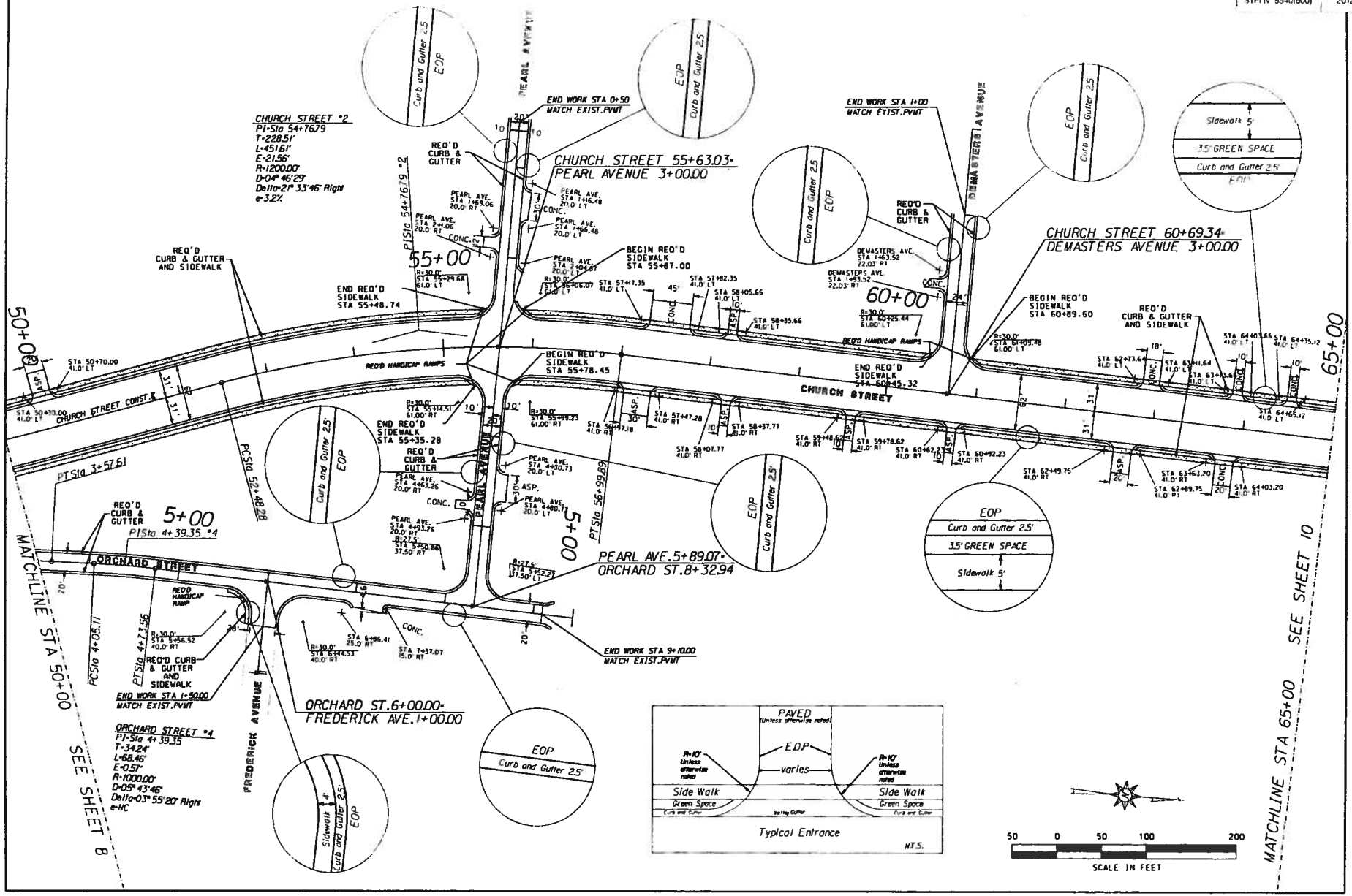
PROFILE VIEW	
PROPOSED RIGHT	
PROPOSED LEFT	
ALONG CENTERLINE :	

NOTE: SEE SHEET 7 FOR ORCHARD STREET PLAN VIEWS

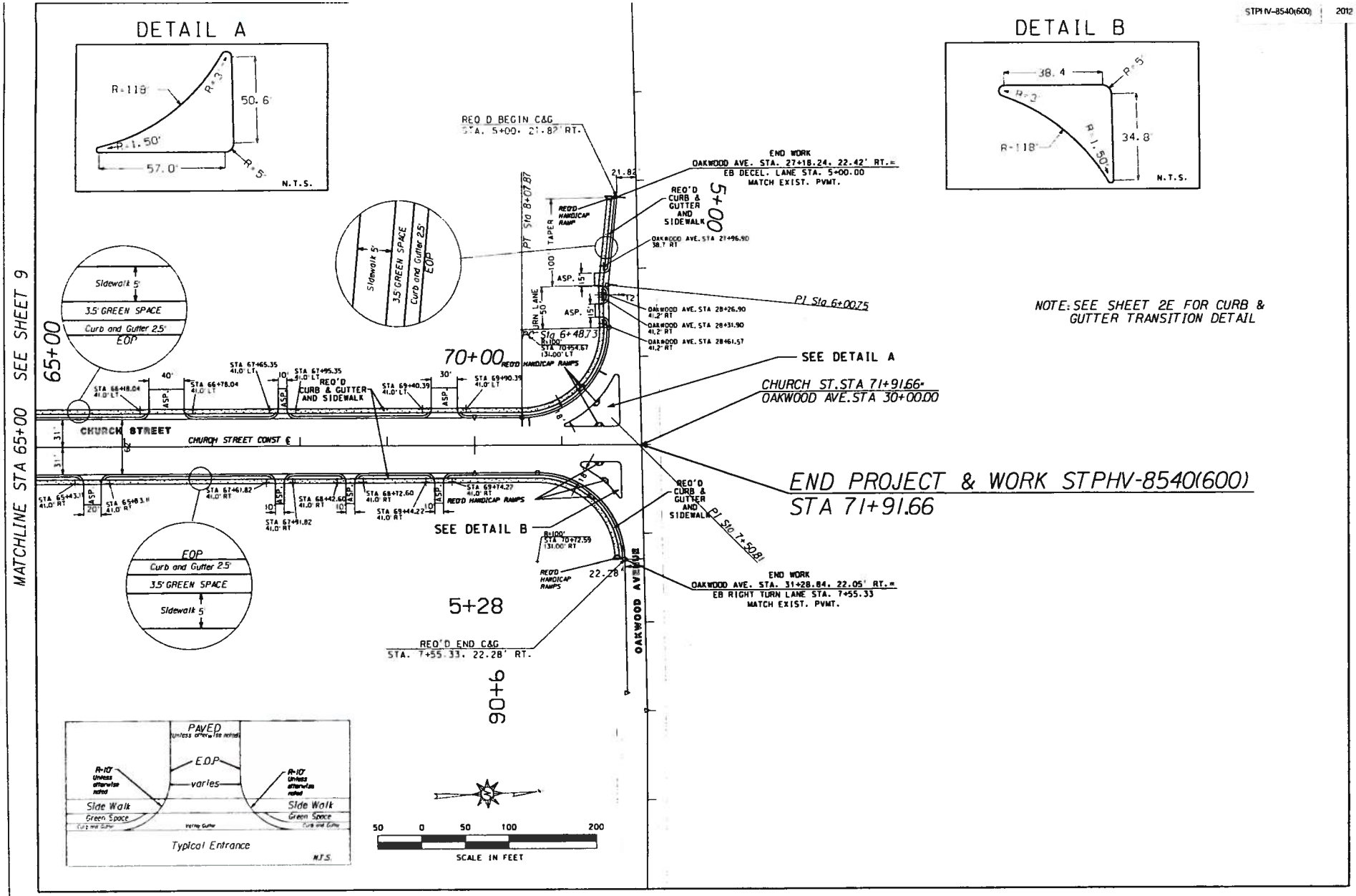


CHURCH STREET PAVING LAYOUT STA 41+50 TO STA 50+00

PROJECT NO	YEAR	NO
STPIV 8540(600)	2012	9



CHURCH STREET PAVING LAYOUT STA 50+00 TO STA 65+00


DETAIL A
R=118'
R=3'
50.6'
R=1.50'
57.0'
R=5'
N.T.S.
DETAIL B
38.4'
R=3'
R=5'
R=118'
R=1.50'
34.8'
N.T.S.
MATCHLINE STA 65+00 SEE SHEET 9
65+00
70+00
5+00
5+28
90+06
Sidewalk 5'
3.5' GREEN SPACE
Curb and Gutter 2.5'
EOP
CHURCH STREET
CHURCH STREET CONST ℄
REQ'D CURB & GUTTER AND SIDEWALK
REQ'D HANDICAP RAMPS
REQ'D BEGIN C&G
STA. 5+00. 21.82' RT.
21.82'
END WORK
OAKWOOD AVE. STA. 27+18.24. 22.42' RT.=
EB DECEL. LANE STA. 5+00.00
MATCH EXIST. PVMT.
REQ'D CURB & GUTTER AND SIDEWALK
OAKWOOD AVE. STA 27+96.90
38.7' RT
PT Sta 8+07.87
TAPER
100'
ASP.
15'
TURN LANE
50'
T2
PI Sta 6+00.75
OAKWOOD AVE. STA 28+26.90
41.2' RT
OAKWOOD AVE. STA 28+31.90
41.2' RT
OAKWOOD AVE. STA 28+61.57
41.2' RT
PC Sta 6+48.73
R=100'
STA 70+54.67
131.00' LT
SEE DETAIL A
CHURCH ST. STA 71+91.66=
OAKWOOD AVE. STA 30+00.00
END PROJECT & WORK STPHV-8540(600)
STA 71+91.66
SEE DETAIL B
R=100'
STA 70+72.59
131.00' RT
REQ'D CURB & GUTTER AND SIDEWALK
PI Sta 7+50.81
22.28'
END WORK
OAKWOOD AVE. STA. 31+28.84. 22.05' RT.=
EB RIGHT TURN LANE STA. 7+55.33
MATCH EXIST. PVMT.
REQ'D END C&G
STA. 7+55.33. 22.28' RT.
OAKWOOD AVENUE
NOTE: SEE SHEET 2E FOR CURB & GUTTER TRANSITION DETAIL
PAVED
(unless otherwise noted)
EOP
varies
R=10' Unless otherwise noted
Side Walk
Green Space
Curb and Gutter
Valley Gutter
Typical Entrance
N.T.S.
50 0 50 100 200
SCALE IN FEET

PROJECT NO		
STPHV 8540(600)	2012	11

PROJ NOTES
800

BM #5 - RRSPK SET IN A WOODEN POWER POLE ON NORTH SIDE OF DARRYL AVE. 200' FROM INTERSECTION OF DARRYL AVE. & ORCHARD ST., CHURCH ST. STA. 40+88.42, RT 197.16'
N=1543784.453
E=428123.117
EL.=622.27'

BM #7 - RRSPK SET IN A WOODEN POWER POLE 800 ORCHARD ST., CHURCH ST. STA. 47+42.12, RT. 66.36'
N=1544471.608
E=428006.602
EL.=627.16'

PROPERTY OWNERS

1	KELVIN SHIELDS & BARBARA WEBSTER D.B. 988, PG. 289	12	TED RITCHIE D.B. 715, PG. 102?
1A	EDITH HELEN HORNSBY & B.W. HORNSBY D.B. 581, PG. 162	13	CITY OF HUNTSVILLE 20100415000191310
2	OMIT	14	ROMELIA F. & ERIC D. IVEY (DEED NOT FOUND)
3	CITY OF HUNTSVILLE 20100830000489920	15	DAVID E. DUPEE 20090518000325930
4	BARBARA DAUGHERTY P.B.20060921064427O P.B.20060921064426O	16	CITY OF HUNTSVILLE 20081106000069767
5	PETE McGLATHERY (DEED NOT FOUND)	17	DELLPHINE L. GLADYS (DEED NOT FOUND)
6	FORREST SMITH & LINDER SMITH & LINNIE HOLT SURV.DB.2004 PG.0242120	18	OLLIE ELWORTH JOHNSON D.B. 744, PG. 420 D.B. 849, PG. 807
7	OMIT	19	STEPHANIE J. ELLIOTT D.B. 984, PG. 322
8	GEORGIA LANIER D.B 203, PG. 210 D.B. 709, PG. 523	20	L.P.C. CORPORATION D.B. 655, PG. 820
9	DAVID HOWARD BENNETT P.B.20041229059667O WARR. D.B. 2004, PG. 0176290	80	HUNTSVILLE/MADISON CO. RAILROAD AUTHORITY (DEED NOT FOUND)
10	OMIT	81	CITY OF HUNTSVILLE 20090724000486080
11	J.E. LOWRY & DORIS AKIN (DEED NOT FOUND)	82	CITY OF HUNTSVILLE 20090731000178650
		83	CITY OF HUNTSVILLE 20081006000639340
		87	ATA WEBSTER INCORPORATED P.B.20060515031429O

PLAN VIEW
EXIST PVMT (REMOVE)
PROP PVMT
EXIST PVMT (RETAIN)

BEGIN PROJECT
STPHV-8540(600)
STA. 41+50.00

BEGIN WORK
STA. 38+00.00

40+00

45+00

MATCHLINE STA 50+00

SEE SHEET 12

PRATT AVENUE

EXIST. SS (RETAIN)

EXIST. SS (REMOVE)

CHURCH STREET

CHURCH STREET, CONST. E

END WORK STA 2+92.62

PCSta 2+97.35

PTSta 3+27.49 #3

CHURCH STREET STA 40+53.35
DARRYL AVENUE STA 5+00.00

DARRYL AVE.

50 0 50 100 200
SCALE IN FEET

UTILITY OWNERS

WATER
HUNTSVILLE UTILITIES
WATER DEPARTMENT
215 CLINTON AVE W
CONTACT: HERCY COLSON
(256) 585-1400

GAS
HUNTSVILLE UTILITIES
GAS DEPARTMENT
201 CLINTON AVE W
CONTACT: JOEL PERRY
(256) 535-1206

TELEPHONE
AT&T
10 CINLEY ROAD SW
(256) 670-6000

MCI
200 WEST SIDE SQ
(256) 534-1653

ELECTRIC
HUNTSVILLE UTILITIES
ELECTRIC DEPARTMENT
201 CLINTON AVE W
CONTACT: RICHARD KNOX
(256) 535-1315

SANITARY SEWER
CITY OF HUNTSVILLE
ENGINEERING DEPARTMENT
320 FOUNTAIN CIRCLE
CONTACT: RANDALL STEWART
(256) 427-5300

CABLE
KNOLOGY
915 MILLER BLVD.
(256) 533-5353

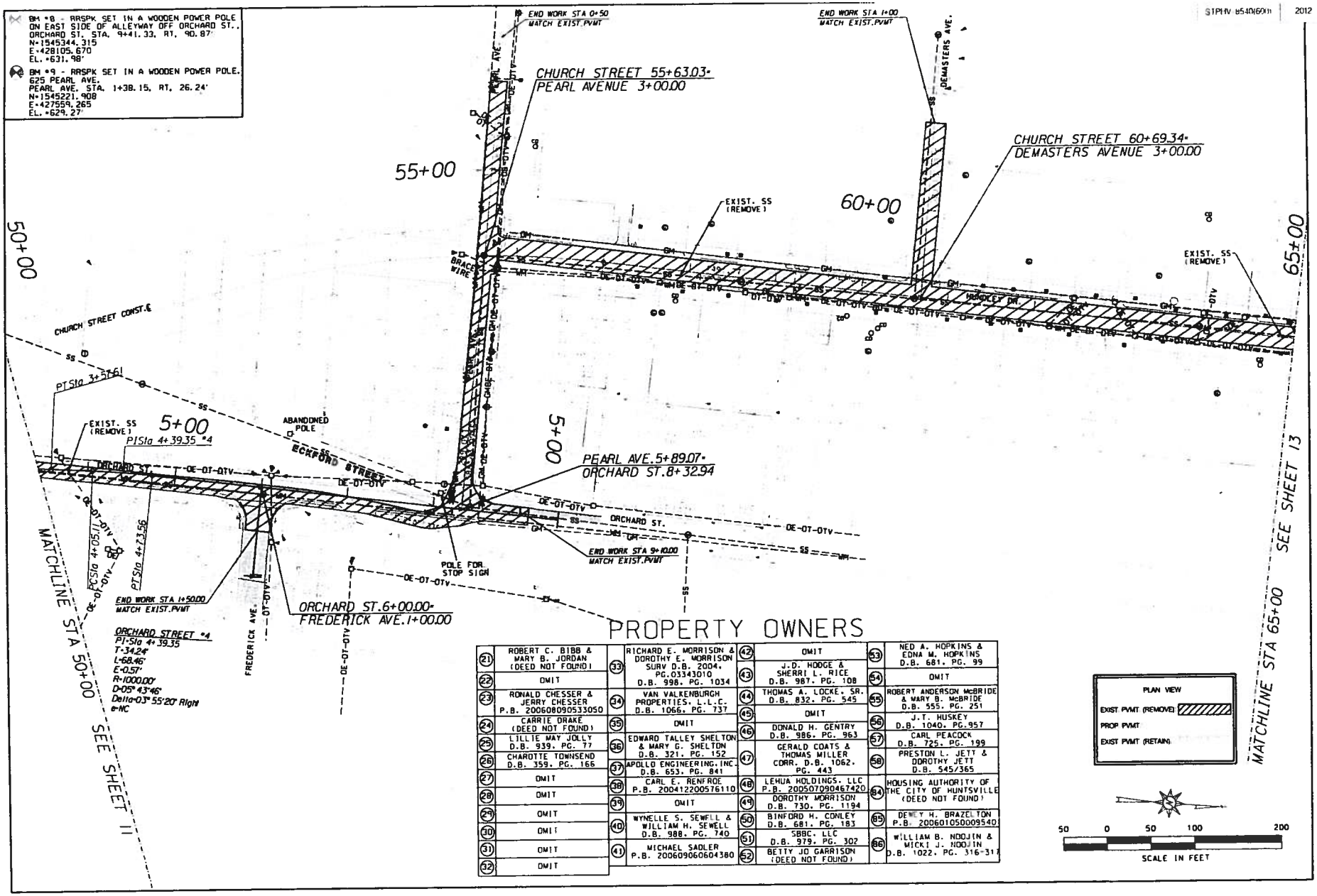
COMCAST
2047 WAR LUTHER DR NW
(256) 859-7800

ORCHARD STREET #3
PI-Sta 3+27.49
T=30.14'
L=60.26'
E=0.54'
R=1000.00'
D=05° 43'46"
Delta=03° 27'10" Left
e=NC

CHURCH STREET UTILITY SHEET STA 41+50 TO STA 50+00

BM #8 - RRSPK SET IN A WOODEN POWER POLE ON EAST SIDE OF ALLEYWAY OFF ORCHARD ST., ORCHARD ST. STA. 9+41.33, RT. 90.87'
N=1545344.315
E=428105.670
EL.=631.98'

BM #9 - RRSPK SET IN A WOODEN POWER POLE. 625 PEARL AVE.
PEARL AVE. STA. 1+38.15, RT. 26.24'
N=1545221.908
E=427559.265
EL.=629.27'

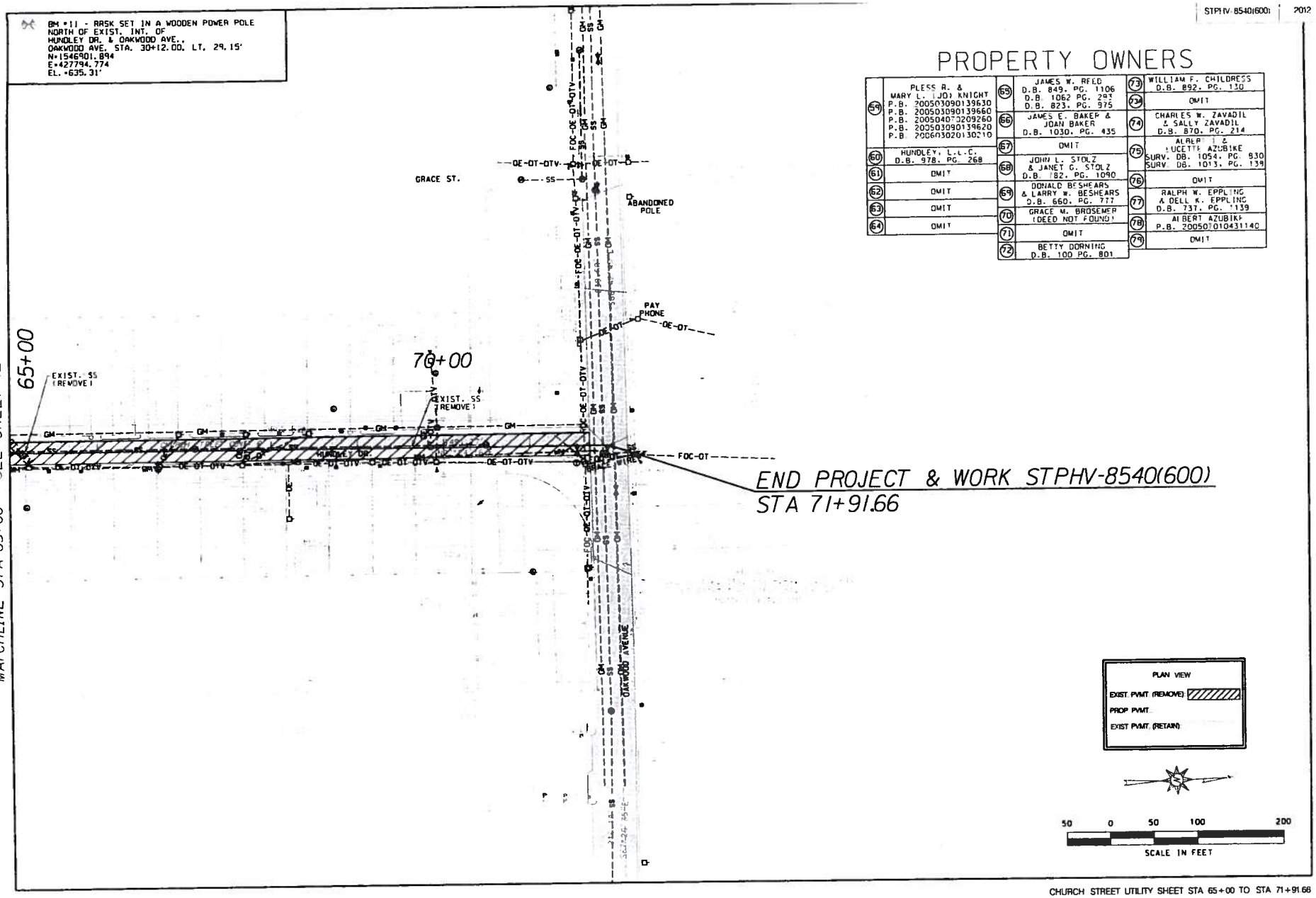


PROPERTY OWNERS

21	ROBERT C. BIBB & MARY B. JORDAN (DEED NOT FOUND)
22	OMIT
23	RONALD CHESSER & JERRY CHESSER P.B. 200608090533050
24	CARRIE DRAKE (DEED NOT FOUND)
25	LILLIE MAY JOLLY D.B. 939. PG. 77
26	CHAROTTE TOWNSEND D.B. 359. PG. 166
27	OMIT
28	OMIT
29	OMIT
30	OMIT
31	OMIT
32	OMIT
33	RICHARD E. MORRISON & DOROTHY E. MORRISON SURV D.B. 2004. PG.03343010 D.B. 998. PG. 1034
34	VAN VALKENBURGH PROPERTIES. L.L.C. D.B. 1066. PG. 737
35	OMIT
36	EDWARD TALLEY SHELTON & MARY G. SHELTON D.B. 321. PG. 152
37	APOLLO ENGINEERING. INC D.B. 653. PG. 841
38	CARL E. RENFROE P.B. 200412200576110
39	OMIT
40	WYNELLE S. SEWELL & WILLIAM H. SEWELL D.B. 988. PG. 740
41	MICHAEL SADLER P.B. 200609060604380
42	OMIT
43	J.D. HODGE & SHERRI L. RICE D.B. 987. PG. 108
44	THOMAS A. LOCKE. SR. D.B. 832. PG. 545
45	OMIT
46	DONALD H. GENTRY D.B. 986. PG. 963
47	GERALD COATS & THOMAS MILLER CORR. D.B. 1062. PG. 443
48	LEHUA HOLDINGS. LLC P.B. 200507090467420
49	DOROTHY MORRISON D.B. 730. PG. 1194
50	BINFORD H. CONLEY D.B. 681. PG. 183
51	SBBC. LLC D.B. 979. PG. 302
52	BETTY JO GARRISON (DEED NOT FOUND)
53	NED A. HOPKINS & EDNA M. HOPKINS D.B. 681. PG. 99
54	OMIT
55	ROBERT ANDERSON McBRIDE & MARY B. McBRIDE D.B. 555. PG. 251
56	J.T. HUSKEY D.B. 1040. PG.957
57	CARL PEACOCK D.B. 725. PG. 199
58	PRESTON L. JETT & DOROTHY JETT D.B. 545/365
84	HOUSING AUTHORITY OF THE CITY OF HUNTSVILLE (DEED NOT FOUND)
85	DEWEY H. BRAZELTON P.B. 200601050009540
86	WILLIAM B. NOOJIN & MICKI J. NOOJIN D.B. 1022. PG. 316-31

CHURCH STREET UTILITY SHEET STA 50+00 TO STA 65+00

BM #11 - RRSK SET IN A WOODEN POWER POLE
NORTH OF EXIST. INT. OF
HUNDLEY DR. & OAKWOOD AVE..
OAKWOOD AVE. STA. 30+12.00, LT. 29.15'
N=1546901.894
E=427794.774
EL.=635.31'



PROPERTY OWNERS

59	PLESS R. & MARY L. (JO) KNIGHT P.B. 20050309013963O P.B. 20050309013966O P.B. 20050407320926O P.B. 20050309013962O P.B. 20060302013021O	65	JAMES W. REED D.B. 849, PG. 1106 D.B. 1062 PG. 293 D.B. 823, PG. 975	73	WILLIAM F. CHILDRESS D.B. 892, PG. 130
60	HUNDLEY, L.L.C. D.B. 978, PG. 268	66	JAMES E. BAKER & JOAN BAKER D.B. 1030, PG. 435	74	OMIT
61	OMIT	67	OMIT	75	CHARLES W. ZAVADIL & SALLY ZAVADIL D.B. 870, PG. 214
62	OMIT	68	JOHN L. STOLZ & JANET G. STOLZ D.B. 782, PG. 1090	76	ALBERT L. & LUCETTE AZUBIKE SURV. DB. 1054, PG. 830 SURV. DB. 1013, PG. 139
63	OMIT	69	DONALD BESHEARS & LARRY W. BESHEARS D.B. 660, PG. 777	77	OMIT
64	OMIT	70	GRACE M. BROSEMER (DEED NOT FOUND)	78	RALPH W. EPPLING & DELL K. EPPLING D.B. 737, PG. 1139
		71	OMIT	79	ALBERT AZUBIKE P.B. 20050101043114O
		72	BETTY DORNING D.B. 100 PG. 801		OMIT

CHURCH STREET UTILITY SHEET STA 65+00 TO STA 71+91.66

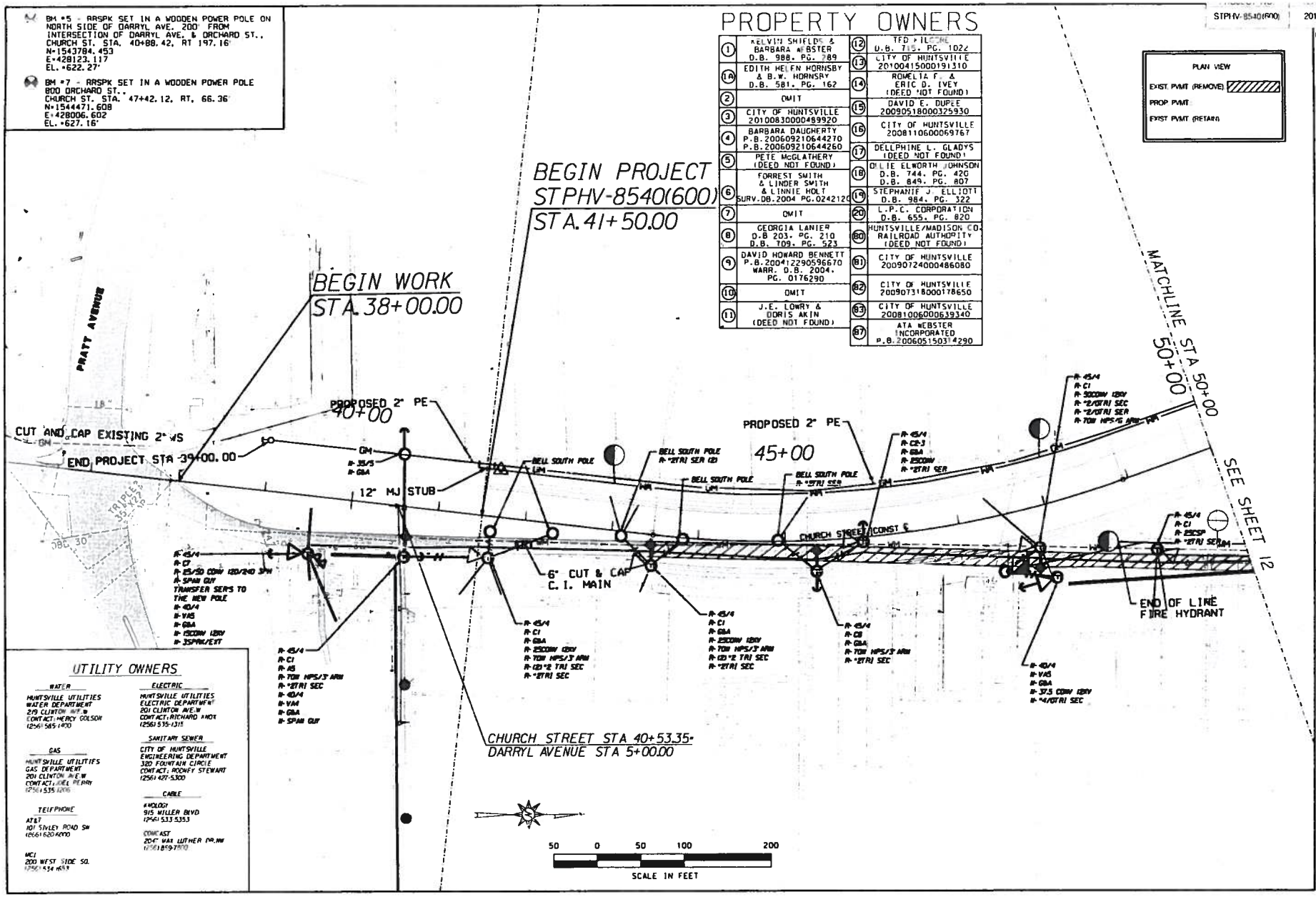
BM #5 - RRSPK SET IN A WOODEN POWER POLE ON NORTH SIDE OF DARRYL AVE. 200' FROM INTERSECTION OF DARRYL AVE. & ORCHARD ST., CHURCH ST. STA. 40+88.42, RT 197.16'
N=1543784.453
E=428123.117
EL. =622.27'

BM #7 - RRSPK SET IN A WOODEN POWER POLE 800 ORCHARD ST., CHURCH ST. STA. 47+42.12, RT. 66.36'
N=1544471.608
E=428006.602
EL. =627.16'

PROPERTY OWNERS

1	KELVIN SHIELDS & BARBARA WEBSTER D.B. 988. PG. 789	12	TED PILCHE D.B. 715. PG. 1022
1A	EDITH HELEN HORNSBY & B.W. HORNSBY D.B. 581. PG. 162	13	CITY OF HUNTSVILLE 20100415000191310
2	OMIT	14	ROMELIA F. & ERIC D. IVEY (DEED NOT FOUND)
3	CITY OF HUNTSVILLE 20100830000489920	15	DAVID E. DUPEE 20090518000325930
4	BARBARA DAUGHERTY P.B.20060921064427O P.B.20060921064426O	16	CITY OF HUNTSVILLE 20081106000069767
5	PETE McGLATHERY (DEED NOT FOUND)	17	DELLPHINE L. GLADYS (DEED NOT FOUND)
6	FORREST SMITH & LINDER SMITH & LINNIE HOLT SURV.DB.2004 PG.0242120	18	OLLIE ELWORTH JOHNSON D.B. 744. PG. 420 D.B. 849. PG. 807
7	OMIT	19	STEPHANIE J. ELLIOTT D.B. 984. PG. 322
8	GEORGIA LANIER D.B 203. PG. 210 D.B. 709. PG. 523	20	L.P.C. CORPORATION D.B. 655. PG. 820
9	DAVID HOWARD BENNETT P.B.20041229059667O WARR. D.B. 2004. PG. 0176290	80	HUNTSVILLE/MADISON CO. RAILROAD AUTHORITY (DEED NOT FOUND)
10	OMIT	81	CITY OF HUNTSVILLE 20090724000486080
11	J.E. LOWRY & DORIS AKIN (DEED NOT FOUND)	82	CITY OF HUNTSVILLE 20090731000178650
		83	CITY OF HUNTSVILLE 20081006000639340
		87	ATA WEBSTER INCORPORATED P.B.20060515031429O

PLAN VIEW
EXIST. PVMT. (REMOVE)
PROP. PVMT.
EXIST. PVMT. (RETAIN)



UTILITY OWNERS

WATER
HUNTSVILLE UTILITIES
WATER DEPARTMENT
219 CLINTON AVE. W
CONTACT: MERCY GOLSON
(256) 585-1470

ELECTRIC
HUNTSVILLE UTILITIES
ELECTRIC DEPARTMENT
201 CLINTON AVE. W
CONTACT: RICHARD KNOX
(256) 535-1315

GAS
HUNTSVILLE UTILITIES
GAS DEPARTMENT
201 CLINTON AVE. W
CONTACT: JOEL PERRY
(256) 535-1206

SANITARY SEWER
CITY OF HUNTSVILLE
ENGINEERING DEPARTMENT
320 FOUNTAIN CIRCLE
CONTACT: RODNEY STEWART
(256) 427-5300

TELEPHONE
AT&T
107 SYLEY ROAD SW
(256) 620-4090

MCI
200 WEST SIDE SQ.
(256) 534-4688

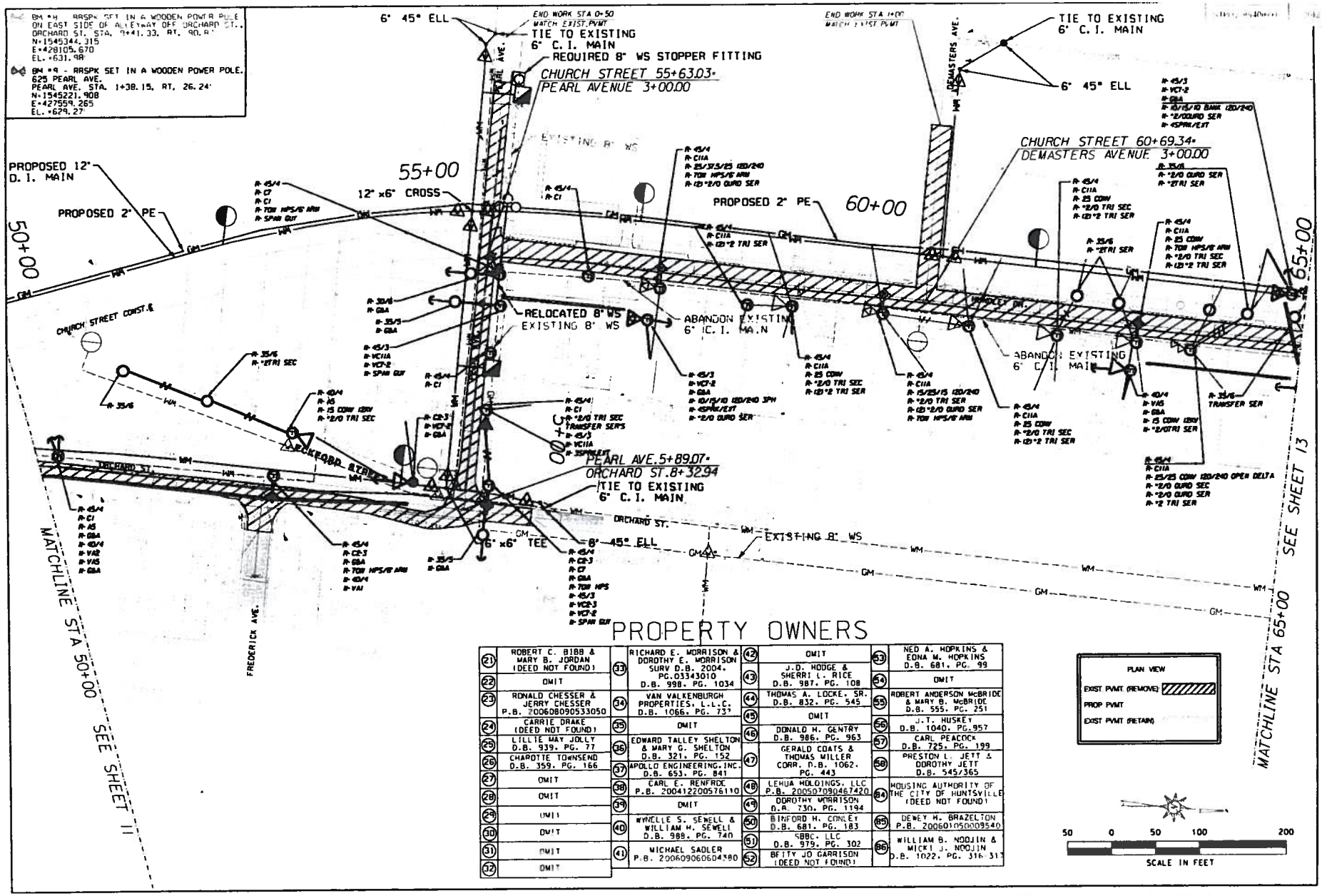
CABLE
WHOLOG?
915 MILLER BLVD
(256) 533-5353

COMCAST
2047 MARTIN LUTHER KING JR. NW
(256) 859-7870

CHURCH STREET PROPOSED UTILITY SHEET STA 41+50 TO STA 50+00

BM #4 - RRSPK SET IN A WOODEN POWER POLE ON EAST SIDE OF ALLEYWAY OFF ORCHARD ST., ORCHARD ST. STA. 9+41.33, RT. 90.8'
N=1545344.315
E=428105.670
EL.=631.98'

BM #9 - RRSPK SET IN A WOODEN POWER POLE. 625 PEARL AVE.
PEARL AVE. STA. 1+38.15, RT. 26.24'
N=1545221.908
E=427559.265
EL.=629.27'



PROPERTY OWNERS

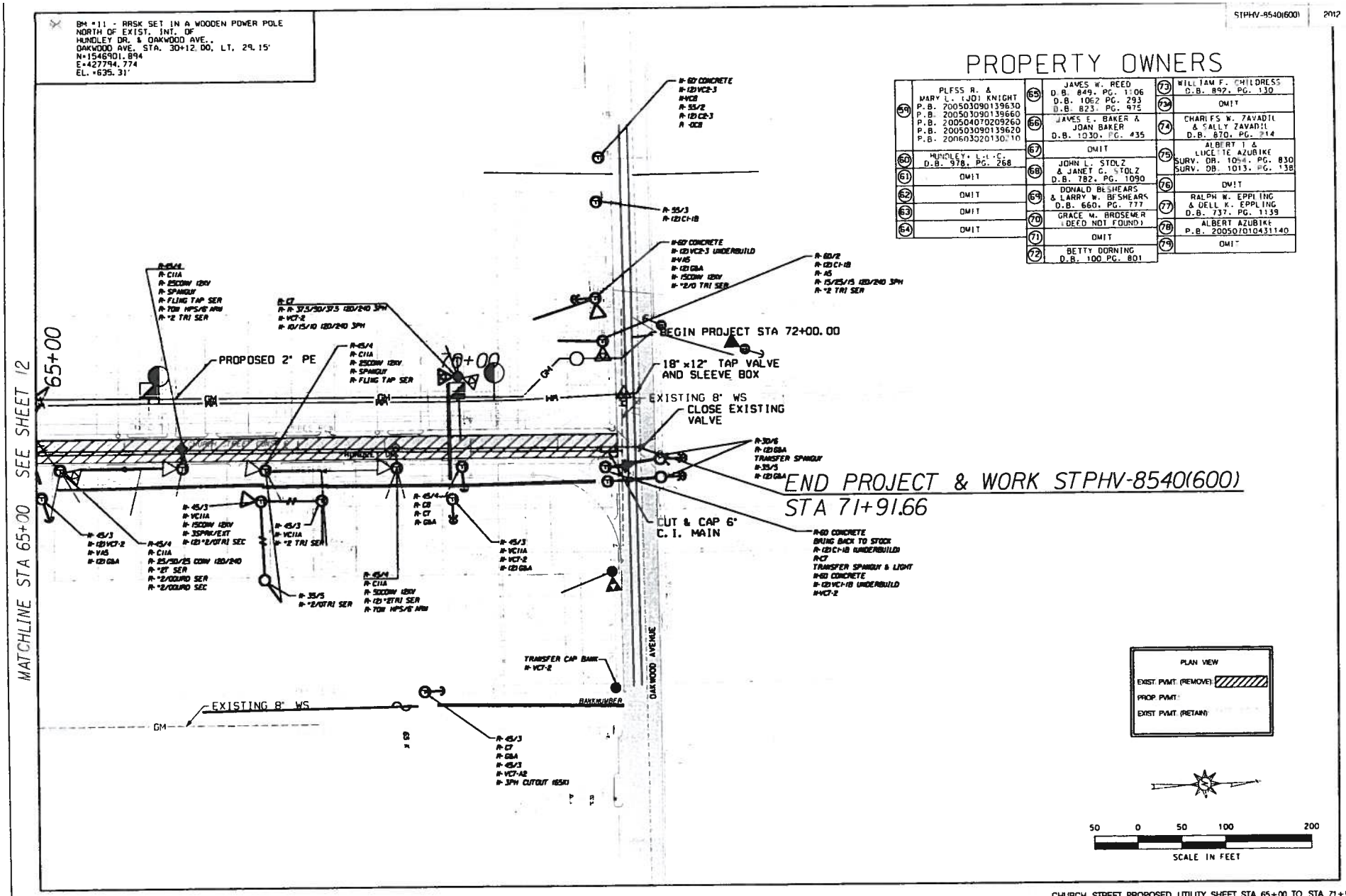
21	ROBERT C. BIBB & MARY B. JORDAN (DEED NOT FOUND)	33	RICHARD E. MORRISON & DOROTHY E. MORRISON SURV D.B. 2004. PG.03343010 D.B. 998. PG. 1034	42	OMIT	53	NED A. HOPKINS & EDNA M. HOPKINS D.B. 681. PG. 99
22	OMIT	34	VAN VALKENBURGH PROPERTIES. L.L.C. D.B. 1066. PG. 737	43	J.D. HODGE & SHERRI L. RICE D.B. 987. PG. 108	54	OMIT
23	RONALD CHESSER & JERRY CHESSER P.B. 200608090533050	35	OMIT	44	THOMAS A. LOCKE. SR. D.B. 832. PG. 545	55	ROBERT ANDERSON McBRIDE & MARY B. McBRIDE D.B. 555. PG. 251
24	CARRIE DRAKE (DEED NOT FOUND)	36	EDWARD TALLEY SHELTON & MARY G. SHELTON D.B. 321. PG. 152	45	OMIT	56	J.T. HUSKEY D.B. 1040. PG.957
25	LILLIE MAY JOLLY D.B. 939. PG. 77	37	APOLLO ENGINEERING.INC. D.B. 653. PG. 841	46	DONALD H. GENTRY D.B. 986. PG. 963	57	CARL PEACOCK D.B. 725. PG. 199
26	CHAROTTE TOWNSEND D.B. 359. PG. 166	38	CARL E. RENFROE P.B. 200412200576110	47	GERALD COATS & THOMAS MILLER CORR. D.B. 1062. PG. 443	58	PRESTON L. JETT & DOROTHY JETT D.B. 545/365
27	OMIT	39	OMIT	48	LEHUA HOLDINGS. LLC P.B. 200507090467420	84	HOUSING AUTHORITY OF THE CITY OF HUNTSVILLE (DEED NOT FOUND)
28	OMIT	40	WYNELLE S. SEWELL & WILLIAM H. SEWELL D.B. 988. PG. 740	49	DOROTHY MORRISON D.B. 730. PG. 1194	85	DEWEY H. BRAZELTON P.B. 200601050009540
29	OMIT	41	MICHAEL SADLER P.B. 200609060604380	50	BINFORD H. CONLEY D.B. 681. PG. 183	86	WILLIAM B. NOOJIN & MICKI J. NOOJIN D.B. 1022. PG. 316-313
30	OMIT			51	SBBC. LLC D.B. 979. PG. 302		
31	OMIT			52	BETTY JO GARRISON (DEED NOT FOUND)		
32	OMIT						

PLAN VIEW
EXIST PVMT (REMOVE)
PROP PVMT
EXIST PVMT (RETAIN)

50 0 50 100 200
SCALE IN FEET

CHURCH STREET PROPOSED UTILITY SHEET STA 50+00 TO STA 65+00

BM #11 - RRSK SET IN A WOODEN POWER POLE
NORTH OF EXIST. INT. OF
HUNDLEY DR. & OAKWOOD AVE.,
OAKWOOD AVE. STA. 30+12.00, LT. 29.15'
N=1546901.894
E=427794.774
EL. =635.31'

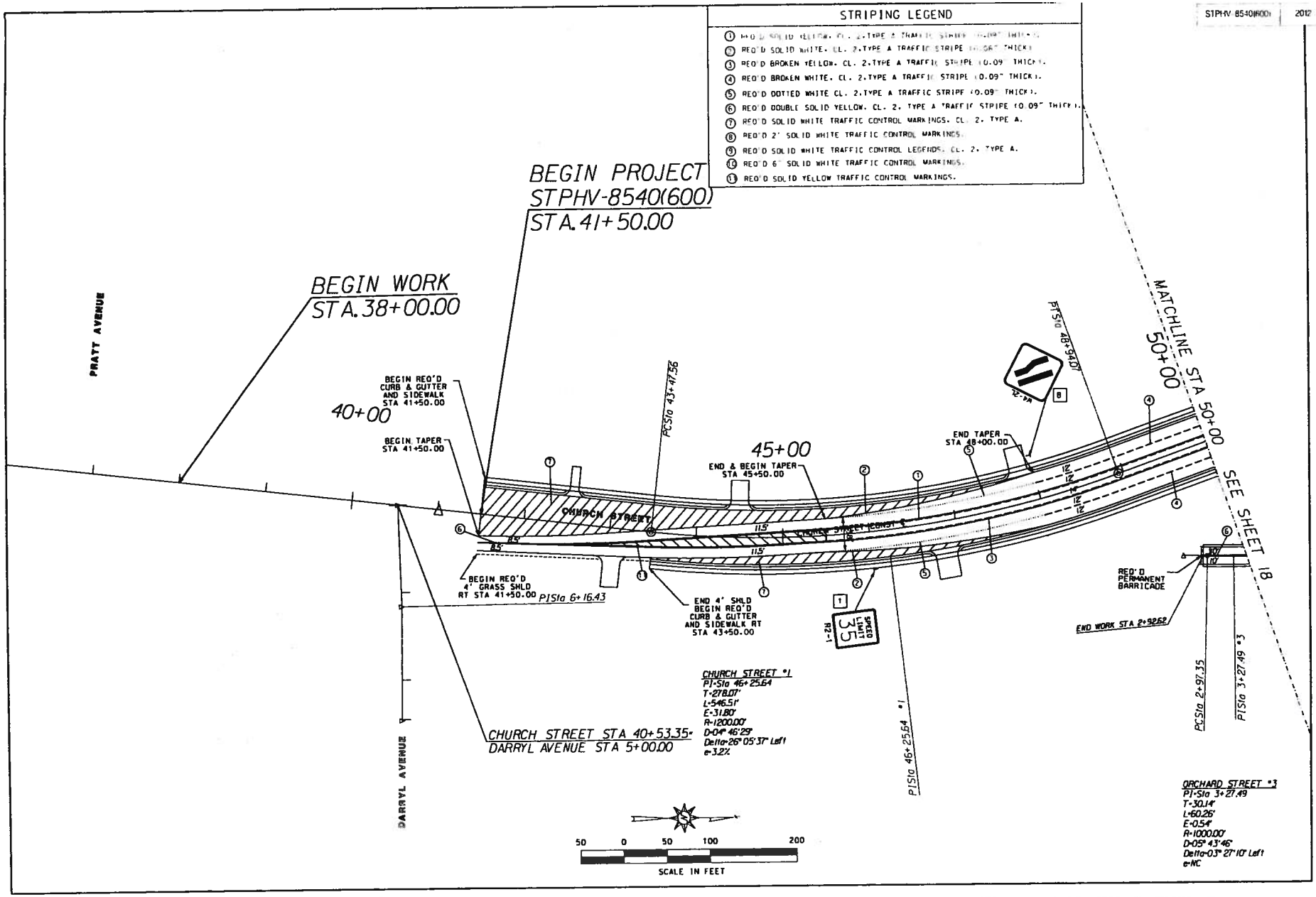


PROPERTY OWNERS

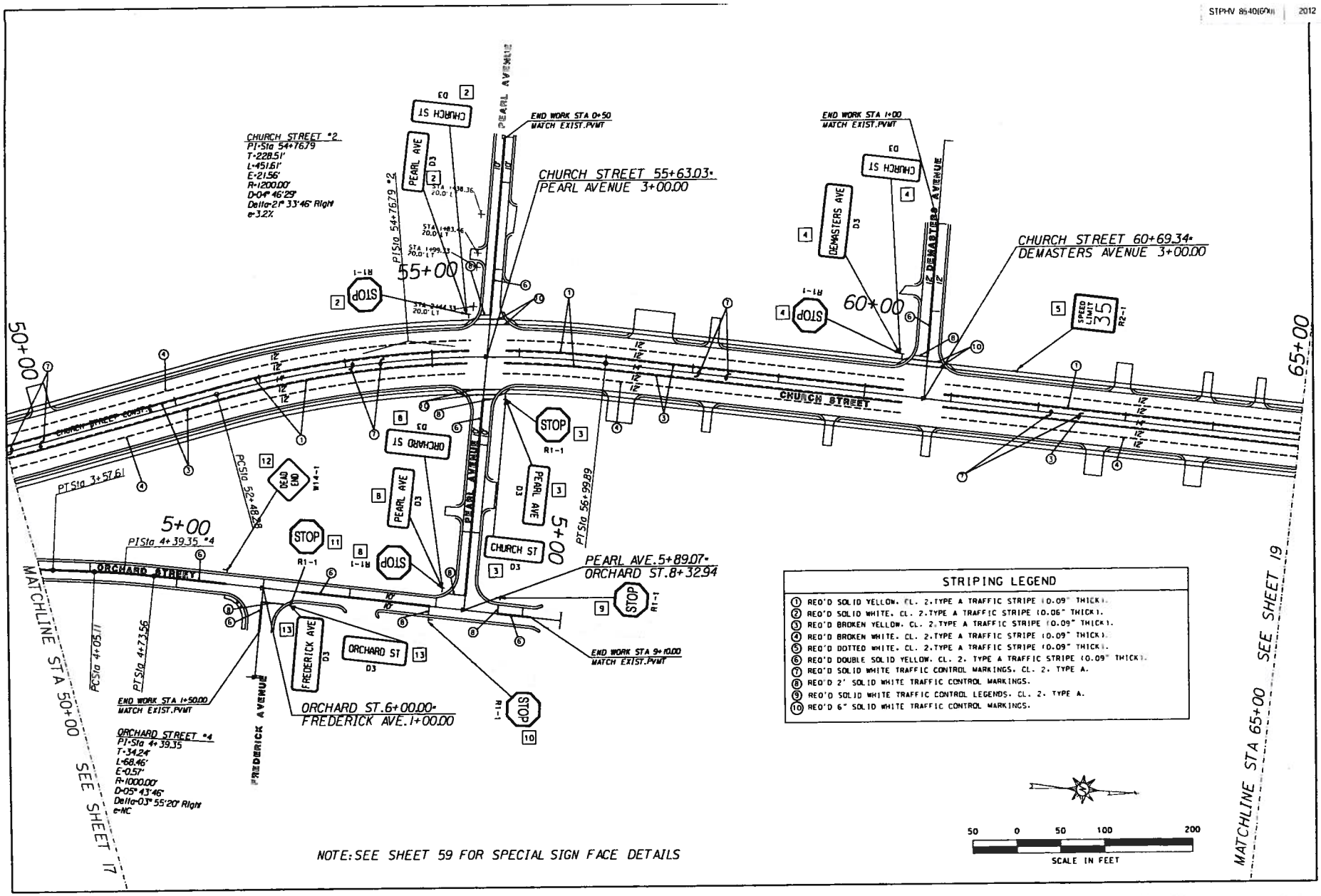
59	PLESS R. & MARY L. (JO) KNIGHT P.B. 200503090139630 P.B. 200503090139660 P.B. 200504070209260 P.B. 200503090139620 P.B. 200603020130210	65	JAMES W. REED D.B. 849, PG. 1106 D.B. 1062 PG. 293 D.B. 823, PG. 975	73	WILLIAM F. CHILDRESS C.B. 892, PG. 130
60	HUNDLEY, L.L.C. D.B. 978, PG. 268	66	JAMES E. BAKER & JOAN BAKER D.B. 1030, PG. 435	74	OMIT
61	OMIT	67	OMIT	75	CHARLES W. ZAVADIL & SALLY ZAVADIL D.B. 870, PG. 214
62	OMIT	68	JOHN L. STOLZ & JANET C. STOLZ D.B. 782, PG. 1090	76	ALBERT I. & LUCILLE AZUBIKE SURV. DB. 1054, PG. 830 SURV. DB. 1013, PG. 138
63	OMIT	69	DONALD BESHEARS & LARRY W. BESHEARS D.B. 660, PG. 777	77	OMIT
64	OMIT	70	GRACE M. BROSEWER (DEED NOT FOUND)	78	RALPH W. EPPLING & DELL K. EPPLING D.B. 737, PG. 1139
		71	OMIT	79	ALBERT AZUBIKE P.B. 200507010431140
		72	BETTY DORNING D.B. 100 PG. 801		OMIT

STRIPING LEGEND

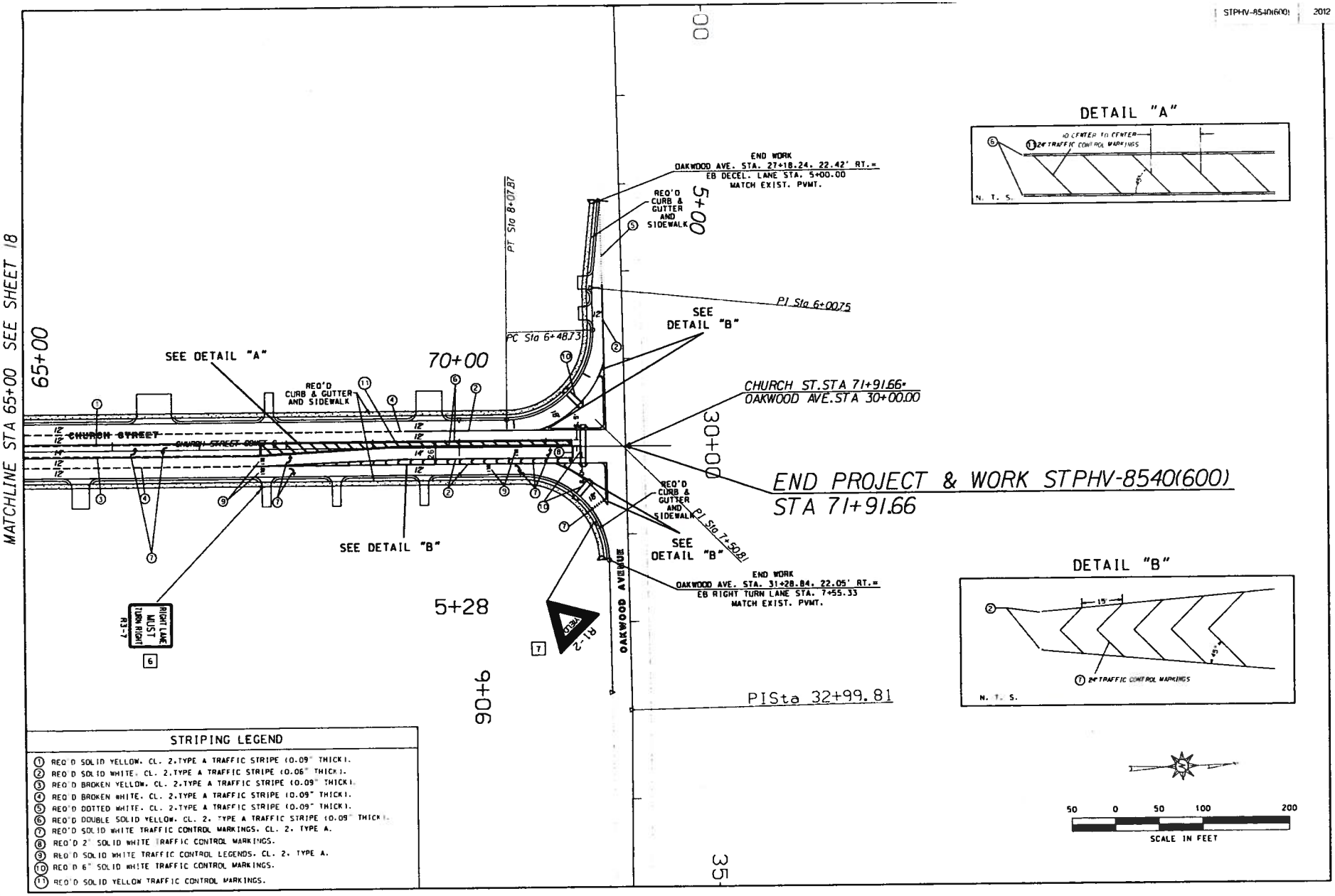
1. REQ'D SOLID YELLOW. CL. 2.TYPE A TRAFFIC STRIPE (0.09" THICK).
2. REQ'D SOLID WHITE. CL. 2.TYPE A TRAFFIC STRIPE (0.09" THICK).
3. REQ'D BROKEN YELLOW. CL. 2.TYPE A TRAFFIC STRIPE (0.09" THICK).
4. REQ'D BROKEN WHITE. CL. 2.TYPE A TRAFFIC STRIPE (0.09" THICK).
5. REQ'D DOTTED WHITE CL. 2.TYPE A TRAFFIC STRIPE (0.09" THICK).
6. REQ'D DOUBLE SOLID YELLOW. CL. 2. TYPE A TRAFFIC STRIPE (0.09" THICK).
7. REQ'D SOLID WHITE TRAFFIC CONTROL MARKINGS. CL. 2. TYPE A.
8. REQ'D 2" SOLID WHITE TRAFFIC CONTROL MARKINGS.
9. REQ'D SOLID WHITE TRAFFIC CONTROL LEGENDS. CL. 2. TYPE A.
10. REQ'D 6" SOLID WHITE TRAFFIC CONTROL MARKINGS.
11. REQ'D SOLID YELLOW TRAFFIC CONTROL MARKINGS.



CHURCH STREET SIGNING, STRIPING, AND MARKINGS STA 41+50 TO STA 50+00



CHURCH STREET SIGNING, STRIPING, AND MARKINGS STA 50+00 TO STA 65+00



STRIPING LEGEND

1. REQ'D SOLID YELLOW. CL. 2.TYPE A TRAFFIC STRIPE (0.09" THICK).
2. REQ'D SOLID WHITE. CL. 2.TYPE A TRAFFIC STRIPE (0.06" THICK).
3. REQ'D BROKEN YELLOW. CL. 2.TYPE A TRAFFIC STRIPE (0.09" THICK).
4. REQ'D BROKEN WHITE. CL. 2.TYPE A TRAFFIC STRIPE (0.09" THICK).
5. REQ'D DOTTED WHITE. CL. 2.TYPE A TRAFFIC STRIPE (0.09" THICK).
6. REQ'D DOUBLE SOLID YELLOW. CL. 2. TYPE A TRAFFIC STRIPE (0.09" THICK).
7. REQ'D SOLID WHITE TRAFFIC CONTROL MARKINGS. CL. 2. TYPE A.
8. REQ'D 2" SOLID WHITE TRAFFIC CONTROL MARKINGS.
9. REQ'D SOLID WHITE TRAFFIC CONTROL LEGENDS. CL. 2. TYPE A.
10. REQ'D 6" SOLID WHITE TRAFFIC CONTROL MARKINGS.
11. REQ'D SOLID YELLOW TRAFFIC CONTROL MARKINGS.

CHURCH STREET SIGNING, STRIPING, AND MARKINGS STA 65+00 TO STA 71+91.66

BM #5 - RRSPK SET IN A WOODEN POWER POLE ON NORTH SIDE OF DARRYL AVE. 200' FROM INTERSECTION OF DARRYL AVE. & ORCHARD ST., CHURCH ST. STA. 40+88.42, RT 197.16
N=1543784.453
E=428123.117
EL. =622.27'

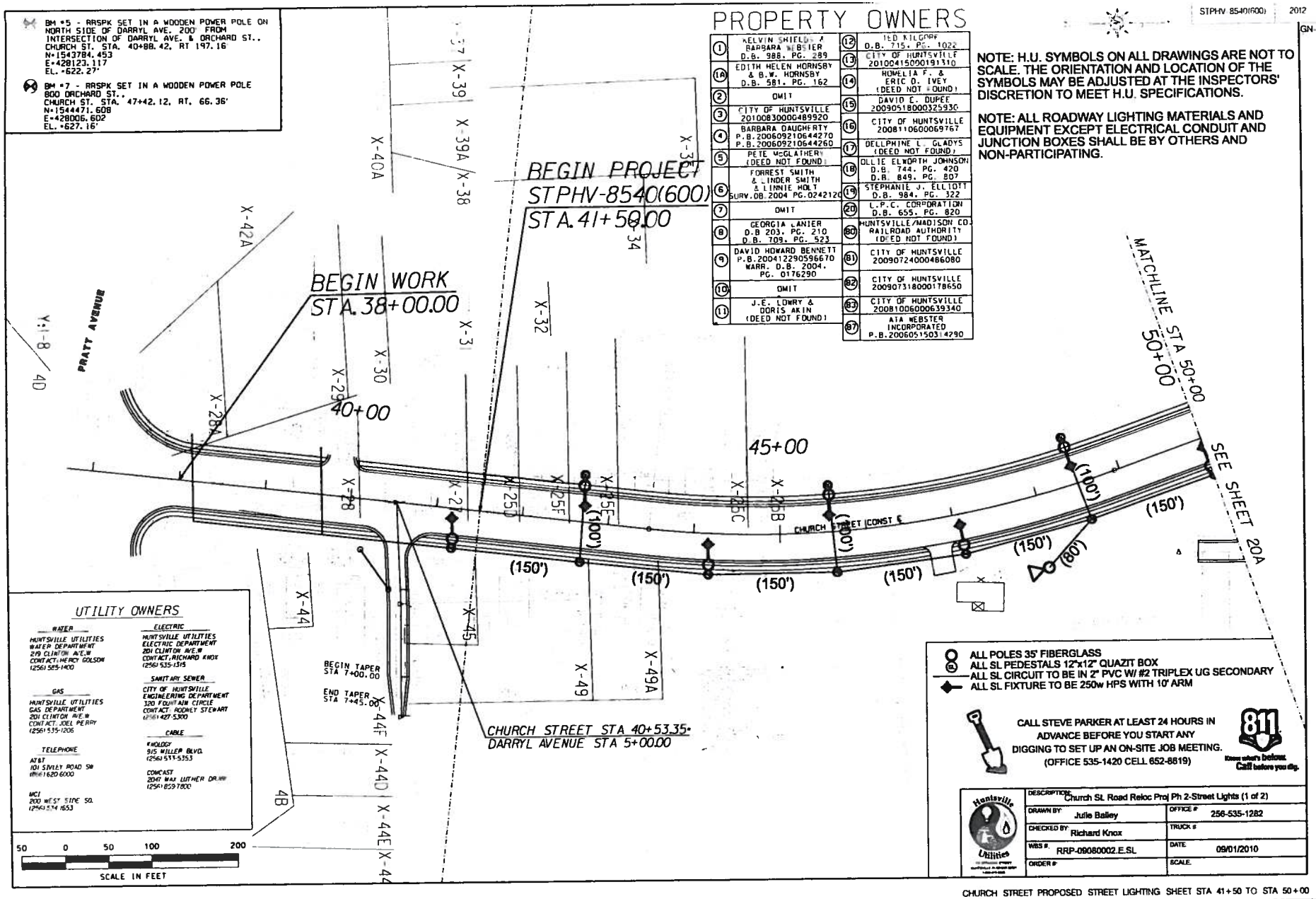
BM #7 - RRSPK SET IN A WOODEN POWER POLE 800 ORCHARD ST.,
CHURCH ST. STA. 47+42.12, RT. 66.36'
N=1544471.608
E=428006.602
EL. =627.16'

PROPERTY OWNERS

1	KELVIN SHIELDS & BARBARA WEBSTER D.B. 988, PG. 289	12	TED KILGORE D.B. 715, PG. 1022
16	EDITH HELEN HORNSBY & B.W. HORNSBY D.B. 581, PG. 162	13	CITY OF HUNTSVILLE 20100415000191310
2	OMIT	14	HOWELIA F. & ERIC D. IVEY (DEED NOT FOUND)
3	CITY OF HUNTSVILLE 20100830000489920	15	DAVID E. DUPEE 20090518000325930
4	BARBARA DAUGHERTY P.B.20060921064427O P.B.20060921064426O	16	CITY OF HUNTSVILLE 20081106000069767
5	PETE McGLATHERY (DEED NOT FOUND)	17	DELLPHINE L. GLADYS (DEED NOT FOUND)
6	FORREST SMITH & LINDER SMITH & LINNIE HOLT SURV.DB.2004 PG.0242120	18	OLLIE ELWORTH JOHNSON D.B. 744, PG. 420 D.B. 849, PG. 807
7	OMIT	19	STEPHANIE J. ELLIOTT D.B. 984, PG. 322
8	GEORGIA LANIER D.B 203, PG. 210 D.B. 709, PG. 523	20	L.P.C. CORPORATION D.B. 655, PG. 820
9	DAVID HOWARD BENNETT P.B.20041229059667O WARR. D.B. 2004, PG. 0176290	80	HUNTSVILLE/MADISON CO. RAILROAD AUTHORITY (DEED NOT FOUND)
10	OMIT	81	CITY OF HUNTSVILLE 20090724000486080
11	J.E. LOWRY & DORIS AKIN (DEED NOT FOUND)	82	CITY OF HUNTSVILLE 20090731800017865O
		83	CITY OF HUNTSVILLE 20081006000639340
		87	ATA WEBSTER INCORPORATED P.B.20060515031429O

NOTE: H.U. SYMBOLS ON ALL DRAWINGS ARE NOT TO SCALE. THE ORIENTATION AND LOCATION OF THE SYMBOLS MAY BE ADJUSTED AT THE INSPECTORS' DISCRETION TO MEET H.U. SPECIFICATIONS.

NOTE: ALL ROADWAY LIGHTING MATERIALS AND EQUIPMENT EXCEPT ELECTRICAL CONDUIT AND JUNCTION BOXES SHALL BE BY OTHERS AND NON-PARTICIPATING.



UTILITY OWNERS

WATER
HUNTSVILLE UTILITIES
WATER DEPARTMENT
219 CLINTON AVE.W
CONTACT: MERCY GOLSON
(256) 525-1400

GAS
HUNTSVILLE UTILITIES
GAS DEPARTMENT
201 CLINTON AVE.W
CONTACT: JOEL PERRY
(256) 535-1206

TELEPHONE
AT&T
101 SIVLEY ROAD SW
(866) 620 6000

MCI
200 WEST SIDE SQ.
(256) 574 1653

ELECTRIC
HUNTSVILLE UTILITIES
ELECTRIC DEPARTMENT
201 CLINTON AVE.W
CONTACT: RICHARD KNOX
(256) 535-1315

SANITARY SEWER
CITY OF HUNTSVILLE
ENGINEERING DEPARTMENT
320 FOUNTAIN CIRCLE
CONTACT: RODNEY STEWART
(256) 427-5300

CABLE
KNOLOGY
915 MILLER BLVD.
(256) 533-5353

COMCAST
2047 MARTIN LUTHER DR.NW
(256) 859-7800

ALL POLES 35' FIBERGLASS
ALL SL PEDESTALS 12"x12" QUAZIT BOX
ALL SL CIRCUIT TO BE IN 2" PVC W/ #2 TRIPLEX UG SECONDARY
ALL SL FIXTURE TO BE 250w HPS WITH 10' ARM

CALL STEVE PARKER AT LEAST 24 HOURS IN ADVANCE BEFORE YOU START ANY DIGGING TO SET UP AN ON-SITE JOB MEETING.
(OFFICE 535-1420 CELL 652-8819)

811 Know what's below. Call before you dig.

Huntsville Utilities

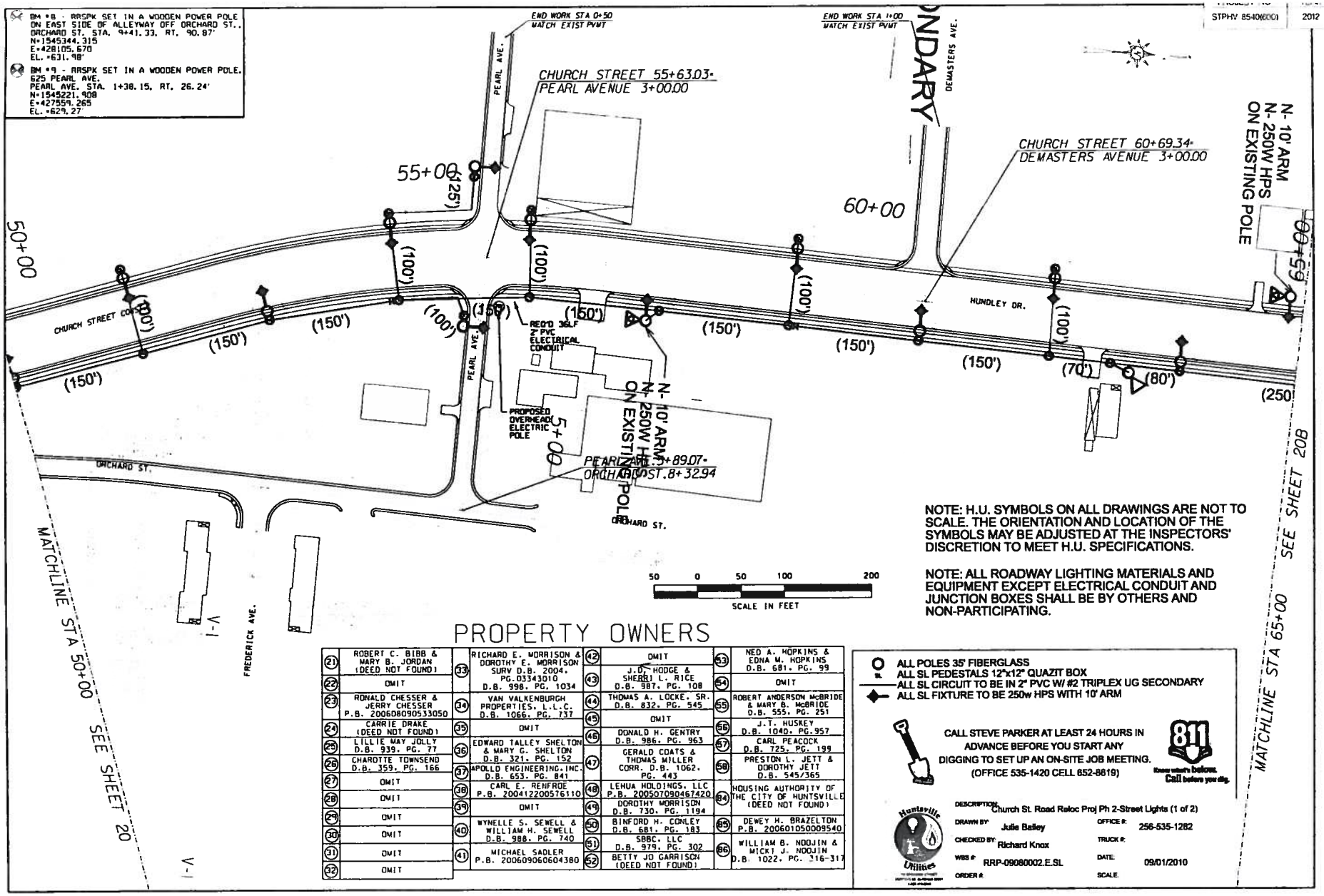
DESCRIPTION:	Church SL Road Reloc Proj Ph 2-Street Lights (1 of 2)		
DRAWN BY:	Julie Bailey	OFFICE #	256-535-1282
CHECKED BY:	Richard Knox	TRUCK #	
WBS #:	RRP-09080002.E.SL	DATE	09/01/2010
ORDER #:		SCALE:	

CHURCH STREET PROPOSED STREET LIGHTING SHEET STA 41+50 TO STA 50+00

STPHV 8540(600)	2012	20A

BM #8 - RRSPK SET IN A WOODEN POWER POLE ON EAST SIDE OF ALLEYWAY OFF ORCHARD ST., ORCHARD ST. STA. 9+41.33, RT. 90.87'
N=1545344.315
E=428105.670
EL.=631.98'

BM #9 - RRSPK SET IN A WOODEN POWER POLE. 625 PEARL AVE.
PEARL AVE. STA. 1+38.15, RT. 26.24'
N=1545221.908
E=427559.265
EL.=629.27'



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NOTE: ALL ROADWAY LIGHTING MATERIALS AND EQUIPMENT EXCEPT ELECTRICAL CONDUIT AND JUNCTION BOXES SHALL BE BY OTHERS AND NON-PARTICIPATING.

PROPERTY OWNERS

21	ROBERT C. BIBB & MARY B. JORDAN (DEED NOT FOUND)
22	OMIT
23	RONALD CHESSER & JERRY CHESSER P.B. 20060809033050
24	CARRIE DRAKE (DEED NOT FOUND)
25	LILLIE MAY JOLLY D.B. 939. PG. 77
26	CHARDTTE TOWNSEND D.B. 359. PG. 166
27	OMIT
28	OMIT
29	OMIT
30	OMIT
31	OMIT
32	OMIT
33	RICHARD E. MORRISON & DOROTHY E. MORRISON SURV D.B. 2004. PG.03343010 D.B. 998. PG. 1034
34	VAN VALKENBURGH PROPERTIES, L.L.C. D.B. 1066. PG. 737
35	OMIT
36	EDWARD TALLEY SHELTON & MARY G. SHELTON D.B. 321. PG. 152
37	APOLLO ENGINEERING, INC. D.B. 653. PG. 841
38	CARL E. RENFROE P.B. 200412200576110
39	OMIT
40	WYNELLE S. SEWELL & WILLIAM H. SEWELL D.B. 988. PG. 740
41	MICHAEL SADLER P.B. 200609060604380
42	OMIT
43	J.D. HODGE & SHERRI L. RICE D.B. 987. PG. 108
44	THOMAS A. LOCKE. SR. D.B. 832. PG. 545
45	OMIT
46	DONALD H. GENTRY D.B. 986. PG. 963
47	GERALD COATS & THOMAS MILLER CORR. D.B. 1062. PG. 443
48	LEHUA HOLDINGS, LLC P.B. 200507090467420
49	DOROTHY MORRISON D.B. 730. PG. 1194
50	BINFORD H. CONLEY D.B. 681. PG. 183
51	SBBC, LLC D.B. 979. PG. 302
52	BETTY JO GARRISON (DEED NOT FOUND)
53	NED A. HOPKINS & EDNA M. HOPKINS D.B. 681. PG. 99
54	OMIT
55	ROBERT ANDERSON McBRIDE & MARY B. McBRIDE D.B. 555. PG. 251
56	J.T. HUSKEY D.B. 1040. PG.957
57	CARL PEACOCK D.B. 725. PG. 199
58	PRESTON L. JETT & DOROTHY JETT D.B. 545/365
84	HOUSING AUTHORITY OF THE CITY OF HUNTSVILLE (DEED NOT FOUND)
85	DEWEY H. BRAZELTON P.B. 200601050009540
86	WILLIAM B. NOOJIN & MICKI J. NOOJIN D.B. 1022. PG. 316-317

ALL POLES 35' FIBERGLASS
ALL SL PEDESTALS 12"x12" QUAZIT BOX
ALL SL CIRCUIT TO BE IN 2" PVC W/ #2 TRIPLEX UG SECONDARY
ALL SL FIXTURE TO BE 250w HPS WITH 10' ARM

CALL STEVE PARKER AT LEAST 24 HOURS IN ADVANCE BEFORE YOU START ANY DIGGING TO SET UP AN ON-SITE JOB MEETING.
(OFFICE 535-1420 CELL 652-8619)

811 Know what's below. Call before you dig.

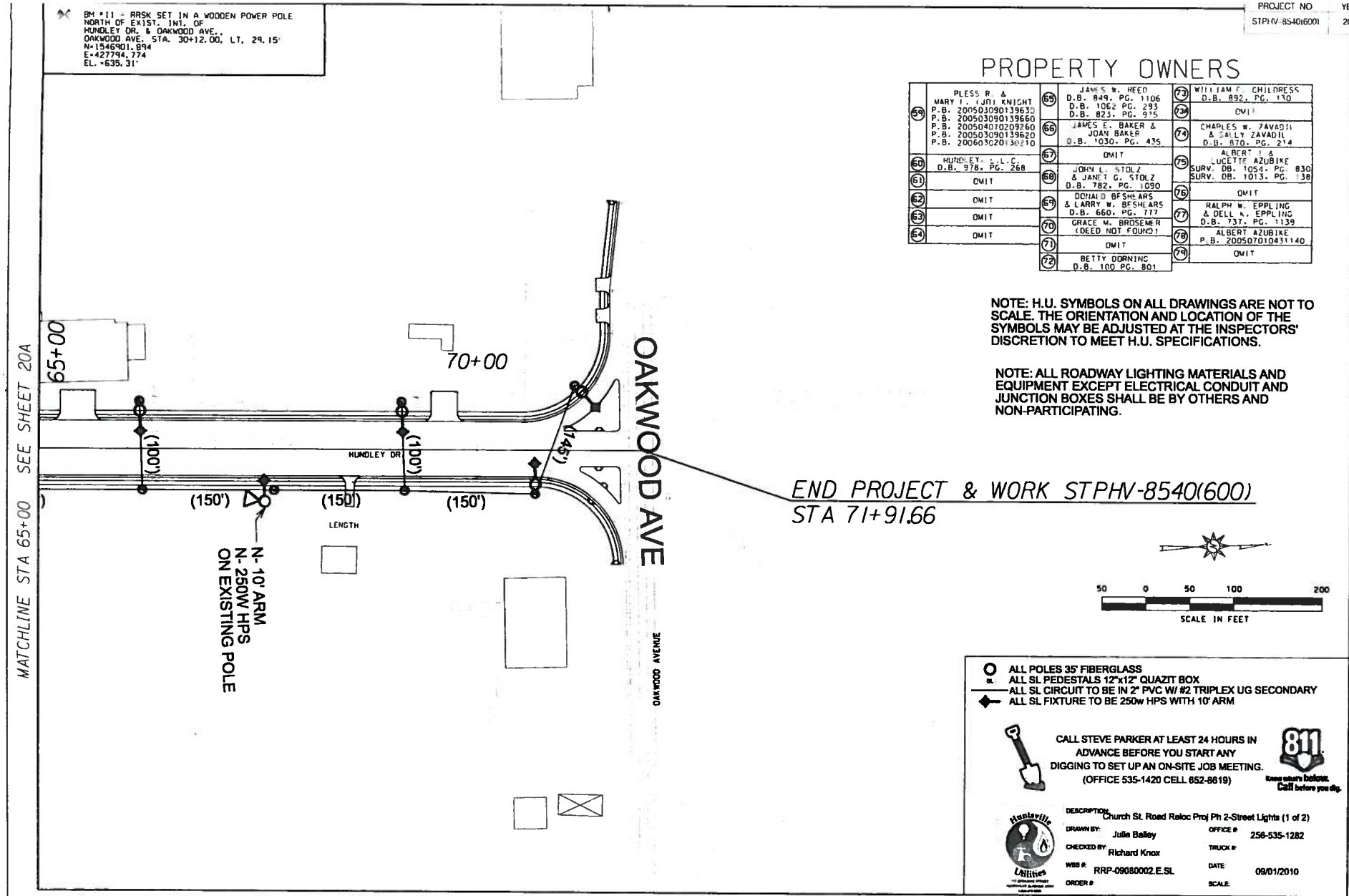
Huntsville Utilities

DESCRIPTION: Church St. Road Reloc Proj Ph 2-Street Lights (1 of 2)
DRAWN BY: Julie Bailey
OFFICE #: 256-535-1282
CHECKED BY: Richard Knox
TRUCK #:
WBS #: RRP-09080002.E.SL
DATE: 09/01/2010
ORDER #:
SCALE:

CHURCH STREET PROPOSED STREET LIGHTING SHEET STA 50+00 TO STA 65+00

PROJECT NO	YEAR	NO
STPHV-8540(600)	2012	208

BM #11 - RRSK SET IN A WOODEN POWER POLE
NORTH OF EXIST. INT. OF
HUNDLEY DR. & OAKWOOD AVE.,
OAKWOOD AVE. STA. 30+12.00, LT. 29.15'
N=1546901.894
E=427794.774
EL.=635.31'



PROPERTY OWNERS

59	PLESS R. & MARY T. (JO) KNIGHT P.B. 20050309013963D P.B. 20050309013966D P.B. 20050407020926D P.B. 20050309013962D P.B. 20060302013021D	65	JAMES W. HEED D.B. 849, PG. 1106 D.B. 1062 PG. 293 D.B. 823, PG. 915	73	WILLIAM F. CHILDRESS D.B. 892, PG. 130
60	HUNDLEY, L.L.C. D.B. 978, PG. 268	66	JAMES E. BAKER & JOAN BAKER D.B. 1030, PG. 435	74	CHARLES W. ZAVADIL & SALLY ZAVADIL D.B. 870, PG. 214
61	OMIT	67	OMIT	75	ALBERT I. & LUCETTE AZUBIKE SURV. DB. 1054, PG. 830 SURV. DB. 1013, PG. 138
62	OMIT	68	JOHN L. STOLZ & JANET G. STOLZ D.B. 782, PG. 1090	76	OMIT
63	OMIT	69	DONALD BESHEARS & LARRY W. BESHEARS D.B. 660, PG. 777	77	RALPH W. EPPLING & DELL K. EPPLING D.B. 737, PG. 1139
64	OMIT	70	GRACE M. BROSEMER (DEED NOT FOUND)	78	ALBERT AZUBIKE P.B. 20050701043114D
		71	OMIT	79	OMIT
		72	BETTY DORNING D.B. 100 PG. 801		

NOTE: H.U. SYMBOLS ON ALL DRAWINGS ARE NOT TO SCALE. THE ORIENTATION AND LOCATION OF THE SYMBOLS MAY BE ADJUSTED AT THE INSPECTORS' DISCRETION TO MEET H.U. SPECIFICATIONS.

NOTE: ALL ROADWAY LIGHTING MATERIALS AND EQUIPMENT EXCEPT ELECTRICAL CONDUIT AND JUNCTION BOXES SHALL BE BY OTHERS AND NON-PARTICIPATING.

- ALL POLES 35' FIBERGLASS
- ALL SL PEDESTALS 12"x12" QUAZIT BOX
- ALL SL CIRCUIT TO BE IN 2" PVC W/ #2 TRIPLEX UG SECONDARY
- ALL SL FIXTURE TO BE 250w HPS WITH 10' ARM

CALL STEVE PARKER AT LEAST 24 HOURS IN ADVANCE BEFORE YOU START ANY DIGGING TO SET UP AN ON-SITE JOB MEETING. (OFFICE 535-1420 CELL 852-8619)

811 Know what's below. Call before you dig.

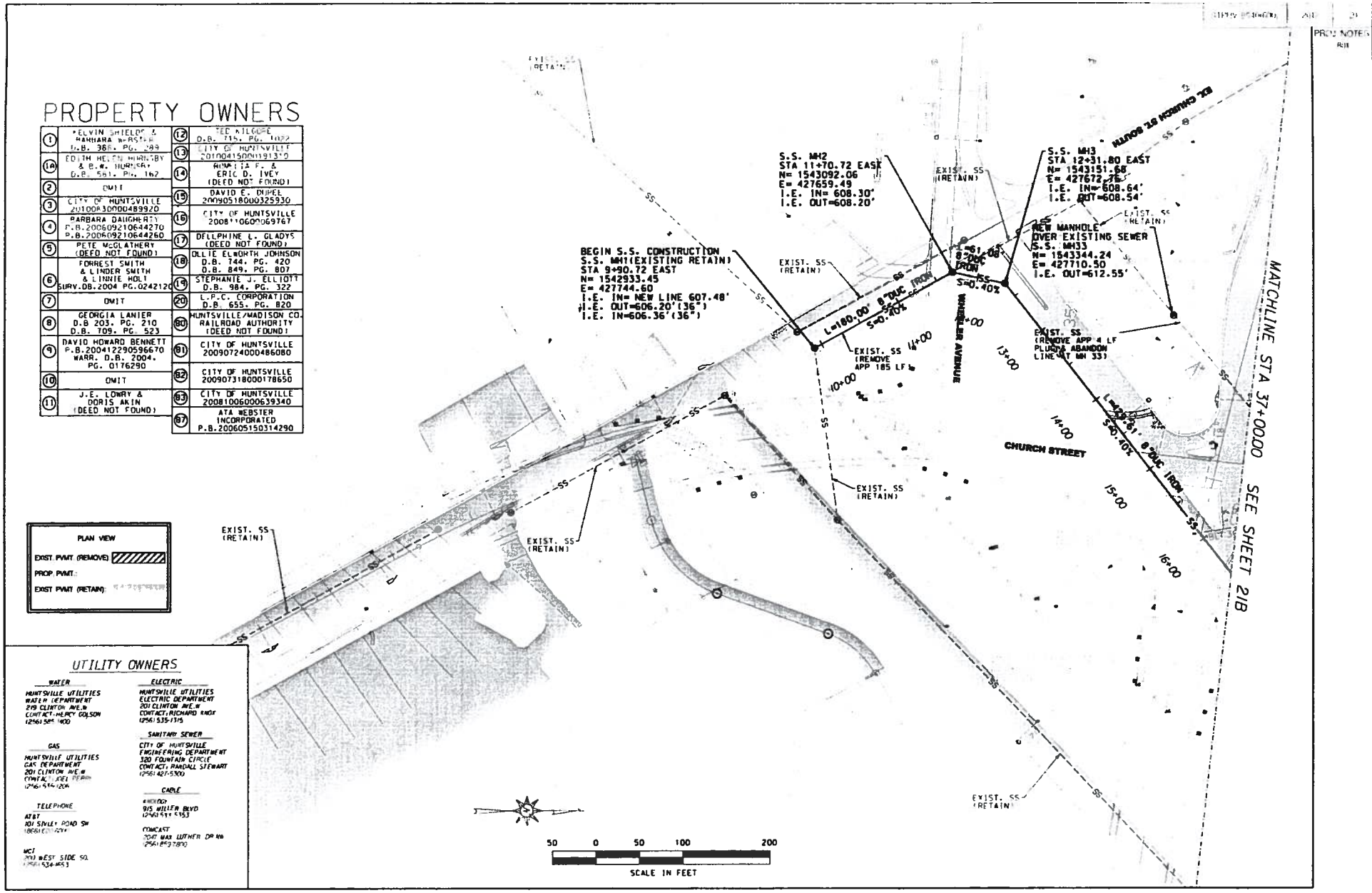
Huntsville Utilities

DESCRIPTION:	Church St. Road Reloc Proj Ph 2-Street Lights (1 of 2)		
DRAWN BY:	Julie Bailey	OFFICE #:	256-535-1282
CHECKED BY:	Richard Knox	TRUCK #:	
WBS #:	RRP-09080002.E.SL	DATE:	09/01/2010
ORDER #:		SCALE:	

CHURCH STREET PROPOSED STREET LIGHTING SHEET STA 65+00 TO STA 71+91.66

PROPERTY OWNERS

1	PELVIN SHIELDS & BARBARA WEBSTER D.B. 388. PG. 289
1A	EDITH HELEN HURNEY & B.W. HURNEY D.B. 561. PG. 162
2	OMIT
3	CITY OF HUNTSVILLE 20100830000489920
4	BARBARA DAUGHERTY P.B.200609210644270 P.B.200609210644260
5	PETE MCGLATHERY (DEED NOT FOUND)
6	FORREST SMITH & LINDER SMITH & LINNIE HOLT SURV.DB.2004 PG.0242120
7	OMIT
8	GEORGIA LANIER D.B 203. PG. 210 D.B. 709. PG. 523
9	DAVID HOWARD BENNETT P.B.200412290596670 WARR. D.B. 2004. PG. 0176290
10	OMIT
11	J.E. LOWRY & DORIS AKIN (DEED NOT FOUND)
12	TED MILGORE D.B. 715. PG. 1002
13	CITY OF HUNTSVILLE 20100415000119370
14	AMANDA F. & ERIC D. IVEY (DEED NOT FOUND)
15	DAVID E. DUPEE 20090518000325930
16	CITY OF HUNTSVILLE 20081106000069767
17	DELLPHINE L. GLADYS (DEED NOT FOUND)
18	OLLIE ELWORTH JOHNSON D.B. 744. PG. 420 D.B. 849. PG. 807
19	STEPHANIE J. ELLIOTT D.B. 984. PG. 322
20	L.P.C. CORPORATION D.B. 655. PG. 820
80	HUNTSVILLE/MADISON CO. RAILROAD AUTHORITY (DEED NOT FOUND)
81	CITY OF HUNTSVILLE 20090724000486080
82	CITY OF HUNTSVILLE 20090731800017865O
83	CITY OF HUNTSVILLE 20081006000639340
87	ATA WEBSTER INCORPORATED P.B.200605150314290



PLAN VIEW

EXIST. PVMT. (REMOVE)

PROP. PVMT.

EXIST. PVMT. (RETAIN)

UTILITY OWNERS

WATER
HUNTSVILLE UTILITIES
WATER DEPARTMENT
219 CLINTON AVE.W
CONTACT:HERCY GOLSON
(256) 535-1400

GAS
HUNTSVILLE UTILITIES
GAS DEPARTMENT
201 CLINTON AVE.W
CONTACT:JOEL PERRY
(256) 534-1201

TELEPHONE
AT&T
101 SHILLY ROAD SW
(866) [illegible]

MCI
200 WEST SIDE SQ.
(256) 534-1653

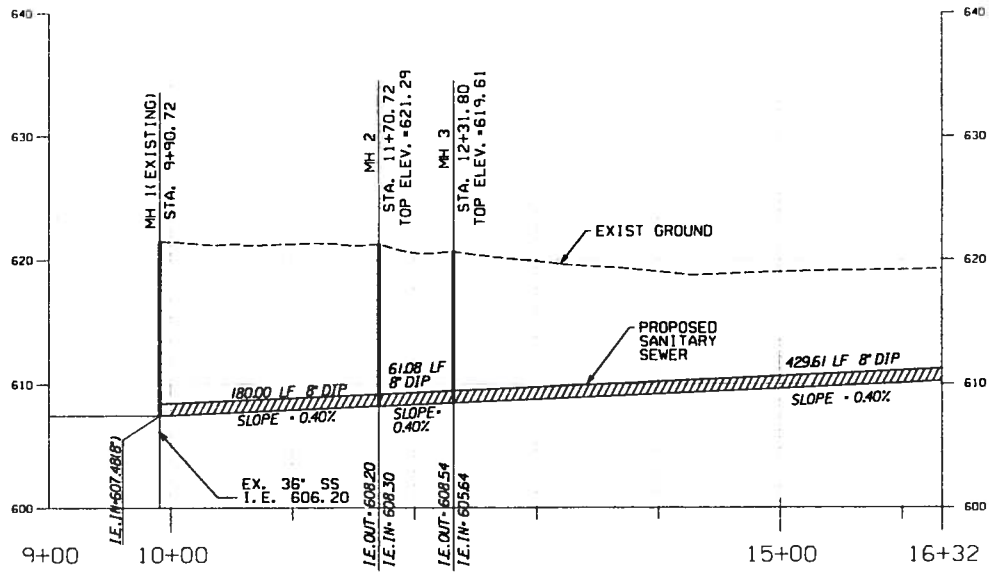
ELECTRIC
HUNTSVILLE UTILITIES
ELECTRIC DEPARTMENT
201 CLINTON AVE.W
CONTACT:RICHARD RADF
(256) 535-1315

SANITARY SEWER
CITY OF HUNTSVILLE
ENGINEERING DEPARTMENT
320 FOUNTAIN CIRCLE
CONTACT: RANDALL STEWART
(256) 427-5300

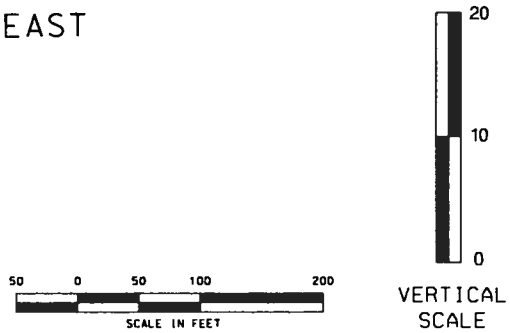
CABLE
MEDIACOM
915 MILLER BLVD
(256) 533-5153

COMCAST
2047 MAX LUTHER DR NW
(256) 852-7800

CHURCH STREET PROPOSED SANITARY SEWER SHEET STA 25+00.00 TO STA 37+00.00



CHURCH STREET SANITARY SEWER EAST



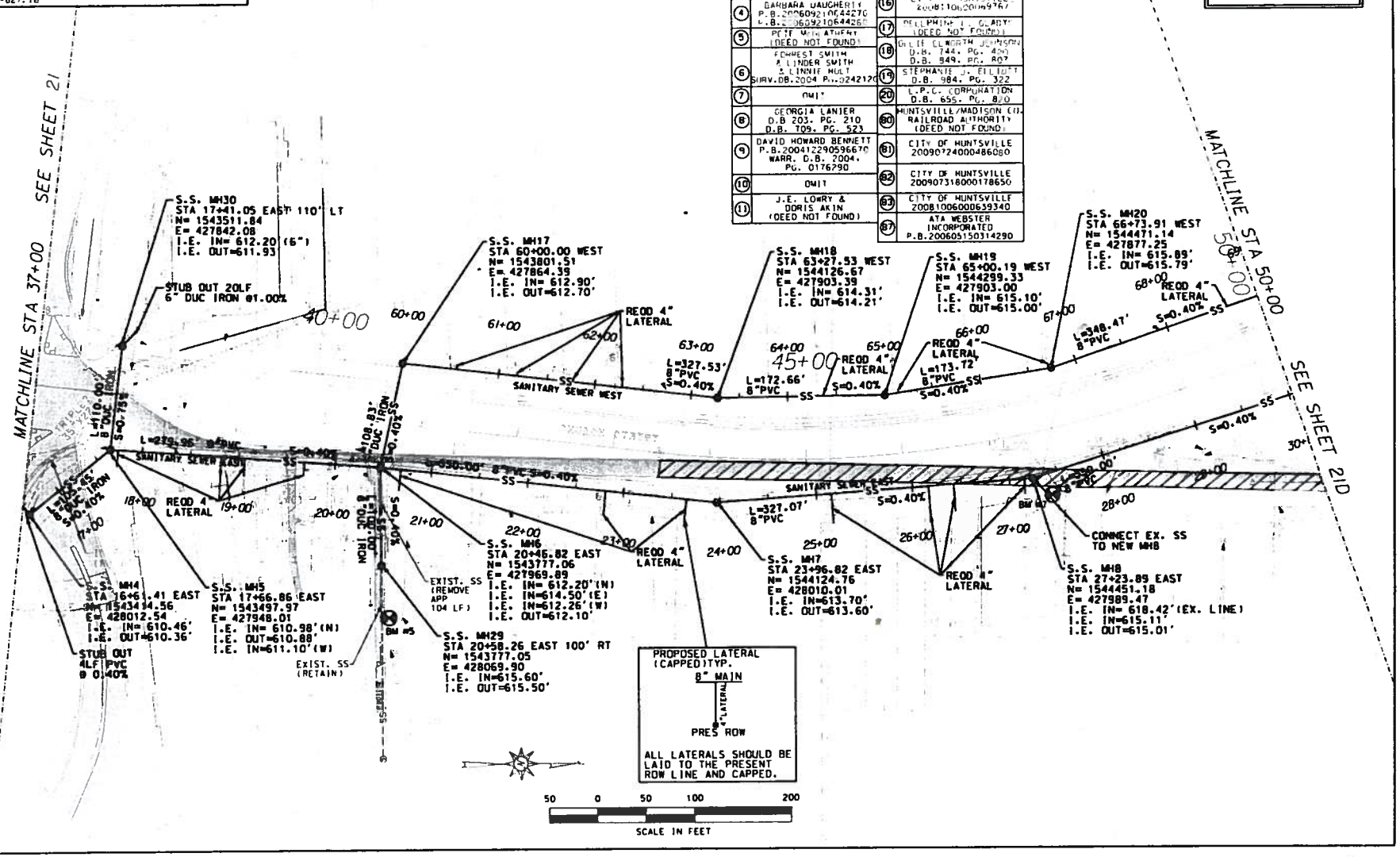
BM #5 - RRSPK SET IN A WOODEN POWER POLE ON NORTH SIDE OF DARRYL AVE. 200' FROM INTERSECTION OF DARRYL AVE. & ORCHARD ST., CHURCH ST. STA. 40+88.42, RT 197.16
N=1543784.453
E=428123.117
EL.=622.27'

BM #7 - RRSPK SET IN A WOODEN POWER POLE 800 ORCHARD ST., CHURCH ST. STA. 47+42.12, RT. 66.36'
N=1544471.608
E=428006.602
EL.=627.16'

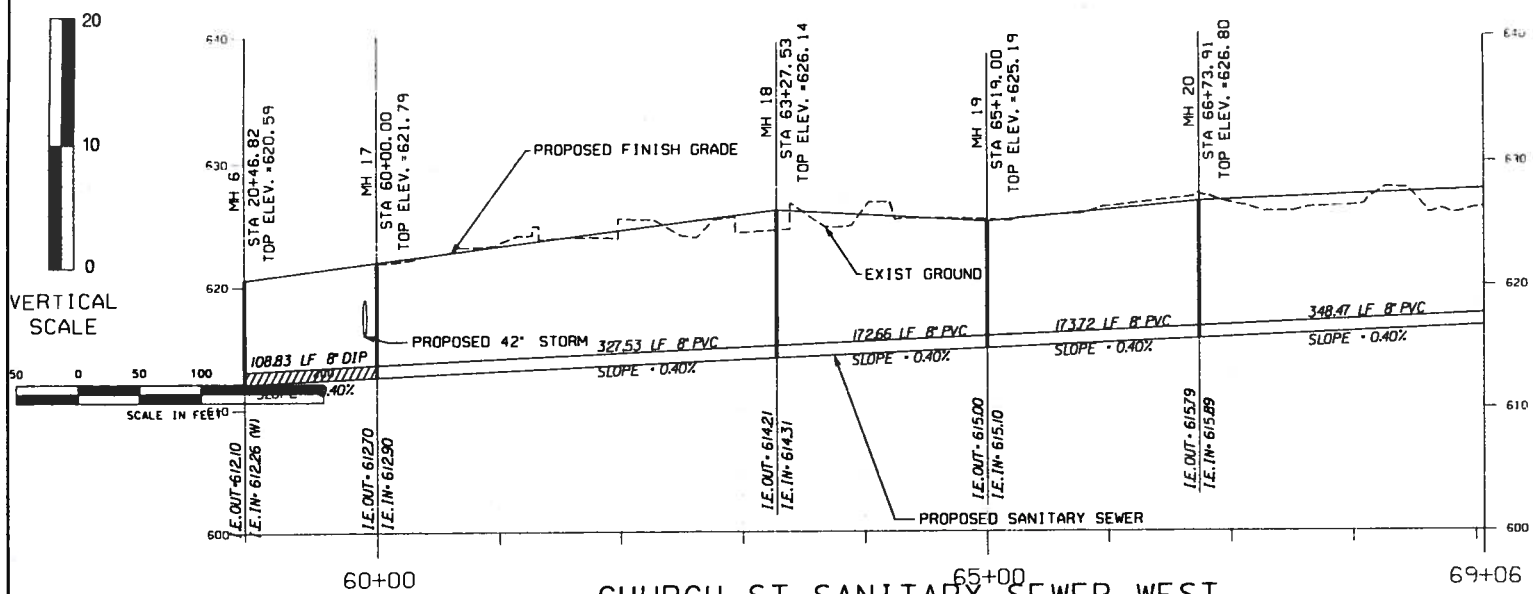
PROPERTY OWNERS

1	BARBARA ALDERTON D.B. 884, PG. 268
14a	FRANK HERON HORNSBY & B.W. HORNSBY D.B. 581, PG. 162
2	OMIT
3	CITY OF HUNTSVILLE 20100830000489920
4	BARBARA DAUGHERTY P.B.20060921064427C D.B.20060921064426C
5	PITT WIN ATHENY (DEED NOT FOUND)
6	FORREST SMITH & LINDER SMITH & LINNIE HULT SURV.DB.2004 PG.0242120
7	OMIT
8	GEORGIA LANIER D.B 203, PG. 210 D.B. 709, PG. 523
9	DAVID HOWARD BENNETT P.B.20041229059667C WARR. D.B. 2004, PG. 0176290
10	OMIT
11	J.E. LOWRY & DORIS AKIN (DEED NOT FOUND)
12	[illegible]
13	[illegible]
14	WINNIE M. & ERIC D. IVEY (DEED NOT FOUND)
15	DAVID E. DUELL 20090518002032930
16	CITY OF HUNTSVILLE 20081030000489767
17	DEL PHINE L. GLADY (DEED NOT FOUND)
18	DELLA ELWORTH JOHNSON D.B. 744, PG. 400 D.B. 849, PG. 807
19	STEPHANIE J. ELLIOTT D.B. 984, PG. 322
20	L.P.C. CORPORATION D.B. 655, PG. 870
80	HUNTSVILLE/MADISON CO. RAILROAD AUTHORITY (DEED NOT FOUND)
81	CITY OF HUNTSVILLE 20090724000486080
82	CITY OF HUNTSVILLE 20090731000178650
83	CITY OF HUNTSVILLE 20081006000639340
87	ATA WEBSTER INCORPORATED P.B.20060515030314290

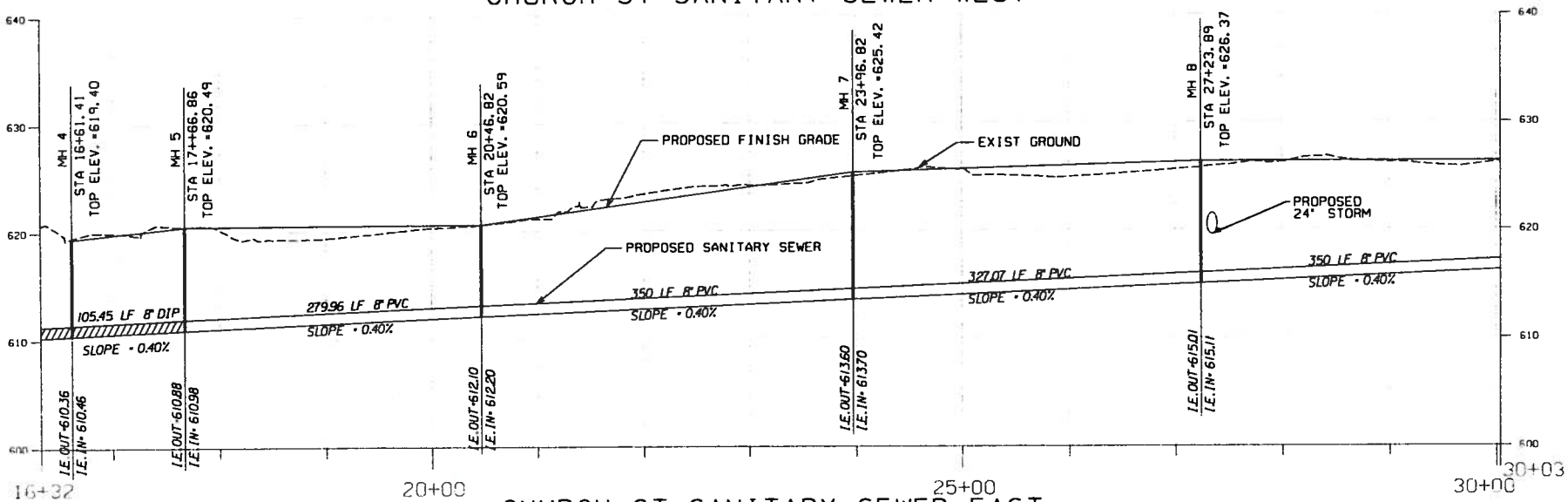
PLAN VIEW
EXIST PVMT (REMOVE)
PROP PVMT
EXIST PVMT (RETAIN)



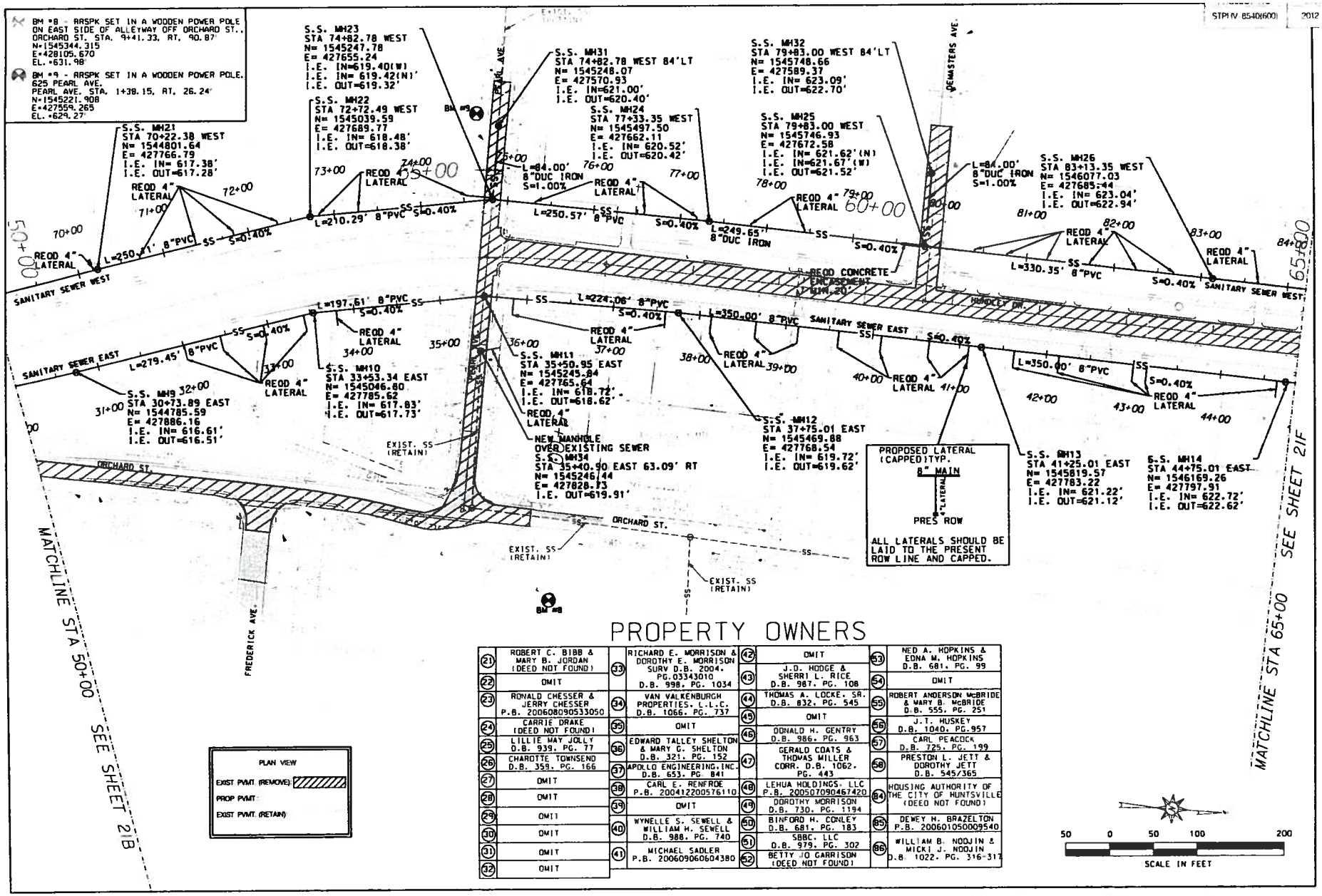
CHURCH STREET PROPOSED SANITARY SEWER SHEET STA 37+00 TO STA 50+00



CHURCH ST SANITARY SEWER WEST

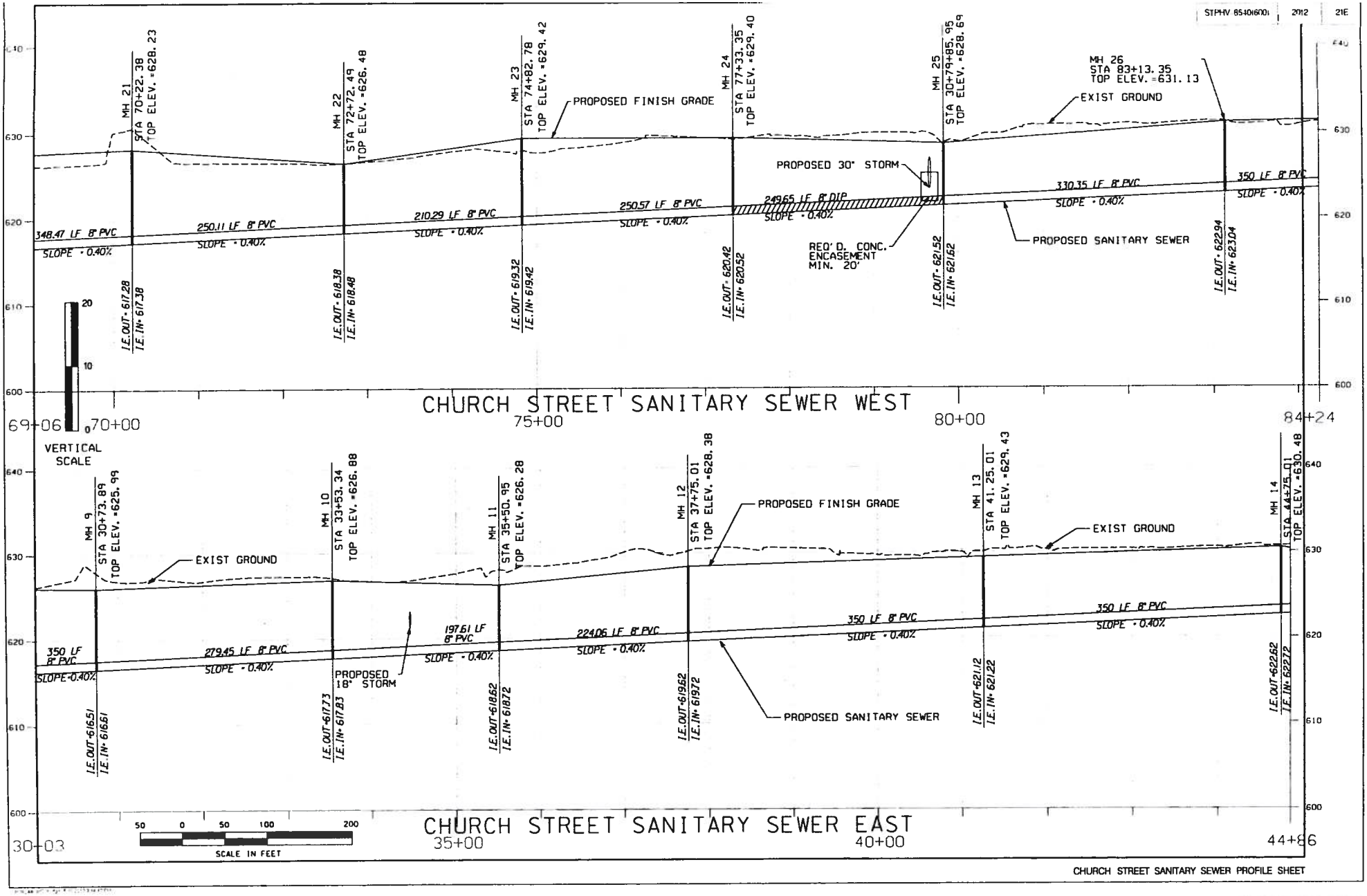


CHURCH ST SANITARY SEWER EAST



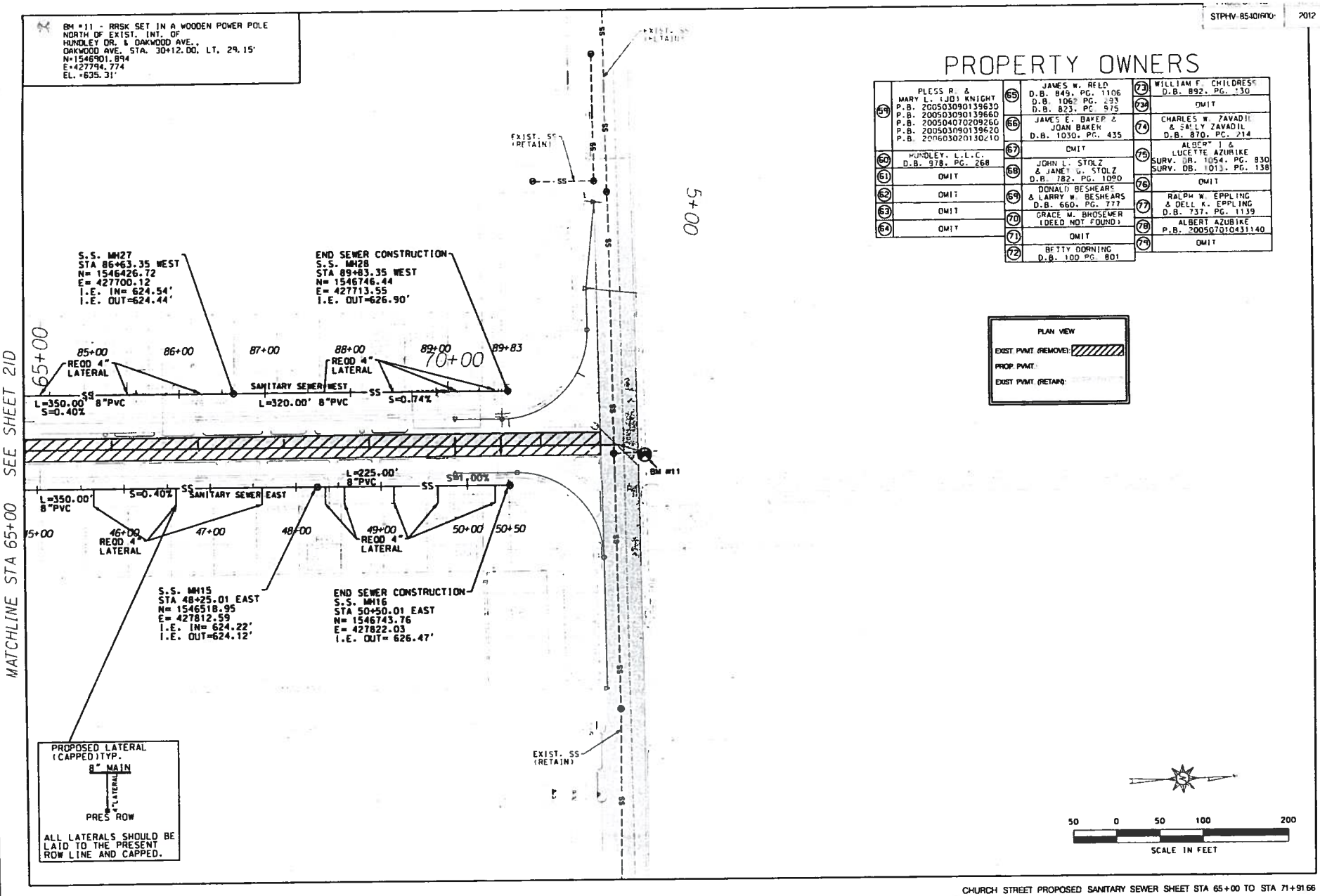
PROPERTY OWNERS

21	ROBERT C. BIBB & MARY B. JORDAN (DEED NOT FOUND)	33	RICHARD E. MORRISON & DOROTHY E. MORRISON SURV D.B. 2004. PG.03343010 D.B. 998. PG. 1034	42	OMIT	53	NED A. HOPKINS & EDNA M. HOPKINS D.B. 681. PG. 99
22	OMIT			43	J.D. HODGE & SHERRI L. RICE D.B. 987. PG. 108	54	OMIT
23	RONALD CHESSER & JERRY CHESSER P.B. 200608090533050	34	VAN VALKENBURGH PROPERTIES. L.L.C. D.B. 1066. PG. 737	44	THOMAS A. LOCKE. SR. D.B. 832. PG. 545	55	ROBERT ANDERSON McBRIDE & MARY B. McBRIDE D.B. 555. PG. 251
24	CARRIE DRAKE (DEED NOT FOUND)	35	OMIT	45	OMIT	56	J.T. HUSKEY D.B. 1040. PG.957
25	LILLIE MAY JOLLY D.B. 939. PG. 77	36	EDWARD TALLEY SHELTON & MARY G. SHELTON D.B. 321. PG. 152	46	DONALD H. GENTRY D.B. 986. PG. 963	57	CARL PEACOCK D.B. 725. PG. 199
26	CHAROTTE TOWNSEND D.B. 359. PG. 166	37	APOLLO ENGINEERING.INC. D.B. 653. PG. 841	47	GERALD COATS & THOMAS MILLER CORR. D.B. 1062. PG. 443	58	PRESTON L. JETT & DOROTHY JETT D.B. 545/365
27	OMIT	38	CARL E. RENFROE P.B. 200412200576110	48	LEHUA HOLDINGS. LLC P.B. 200507090467420	84	HOUSING AUTHORITY OF THE CITY OF HUNTSVILLE (DEED NOT FOUND)
28	OMIT	39	OMIT	49	DOROTHY MORRISON D.B. 730. PG. 1194		
29	OMIT	40	WYNELLE S. SEWELL & WILLIAM H. SEWELL D.B. 988. PG. 740	50	BINFORD H. CONLEY D.B. 681. PG. 183	85	DEWEY H. BRAZELTON P.B. 200601050009540
30	OMIT			51	SBBC. LLC D.B. 979. PG. 302	86	WILLIAM B. NOOJIN & MICKI J. NOOJIN D.B. 1022. PG. 316-317
31	OMIT	41	MICHAEL SADLER P.B. 200609060604380	52	BETTY JO GARRISON (DEED NOT FOUND)		
32	OMIT						



CHURCH STREET SANITARY SEWER PROFILE SHEET

BM #11 - RRSK SET IN A WOODEN POWER POLE
NORTH OF EXIST. INT. OF
HUNDLEY DR. & OAKWOOD AVE.,
OAKWOOD AVE. STA. 30+12.00, LT. 29.15'
N=1546901.894
E=427794.774
EL. =635.31'

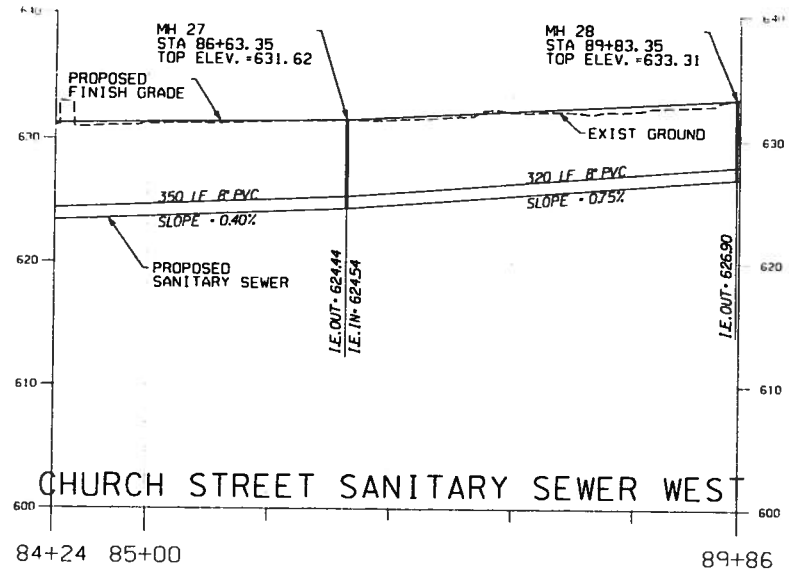


PROPERTY OWNERS

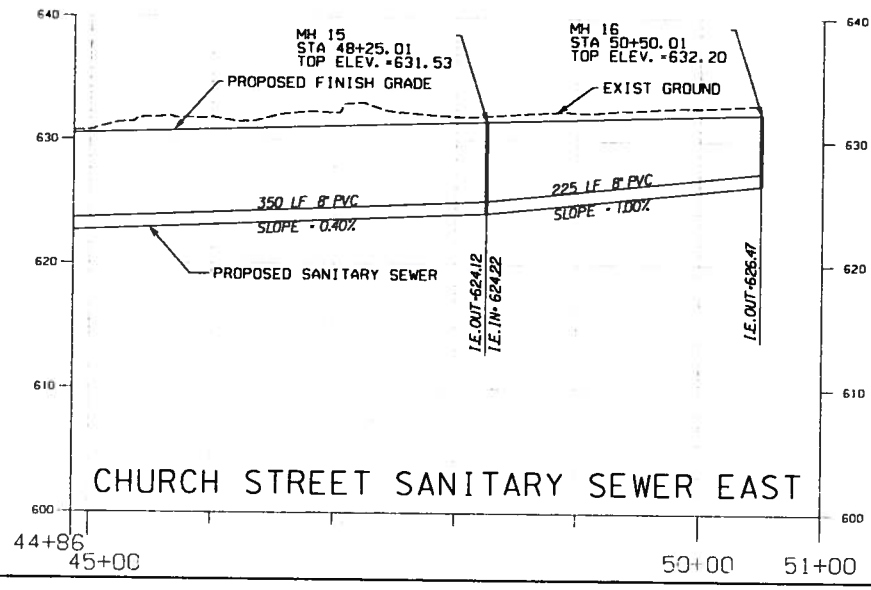
59	PLESS R. & MARY L. (JO) KNIGHT P.B. 200503090139630 P.B. 200503090139660 P.B. 200504070209260 P.B. 200503090139620 P.B. 200603020130210	65	JAMES W. REID D.B. 849, PG. 1106 D.B. 1062 PG. 293 D.B. 823, PG. 975	73	WILLIAM F. CHILDRESS D.B. 892, PG. 130
60	HUNDLEY, L.L.C. D.B. 978, PG. 268	66	JAMES E. BAKER & JOAN BAKER D.B. 1030, PG. 435	74	OMIT
61	OMIT	67	OMIT	75	CHARLES W. ZAVADIL & SALLY ZAVADIL D.B. 870, PG. 214
62	OMIT	68	JOHN L. STOLZ & JANET G. STOLZ D.B. 782, PG. 1090	76	ALBERT J. & LUCETTE AZUBIKE SURV. DB. 1054, PG. 830 SURV. DB. 1013, PG. 138
63	OMIT	69	DONALD BESHEARS & LARRY W. BESHEARS D.B. 660, PG. 777	77	OMIT
64	OMIT	70	GRACE M. BROSEMER (DEED NOT FOUND)	78	RALPH W. EPPLING & DELL K. EPPLING D.B. 737, PG. 1139
		71	OMIT	79	ALBERT AZUBIKE P.B. 200507010431140
		72	BETTY DORNING D.B. 100 PG. 801		OMIT

CHURCH STREET PROPOSED SANITARY SEWER SHEET STA 65+00 TO STA 71+91.66

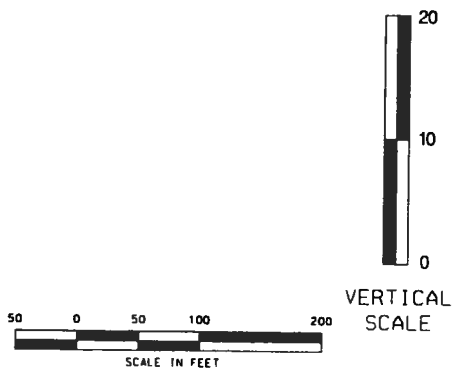
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-R540(600)	2012	21G



CHURCH STREET SANITARY SEWER WEST

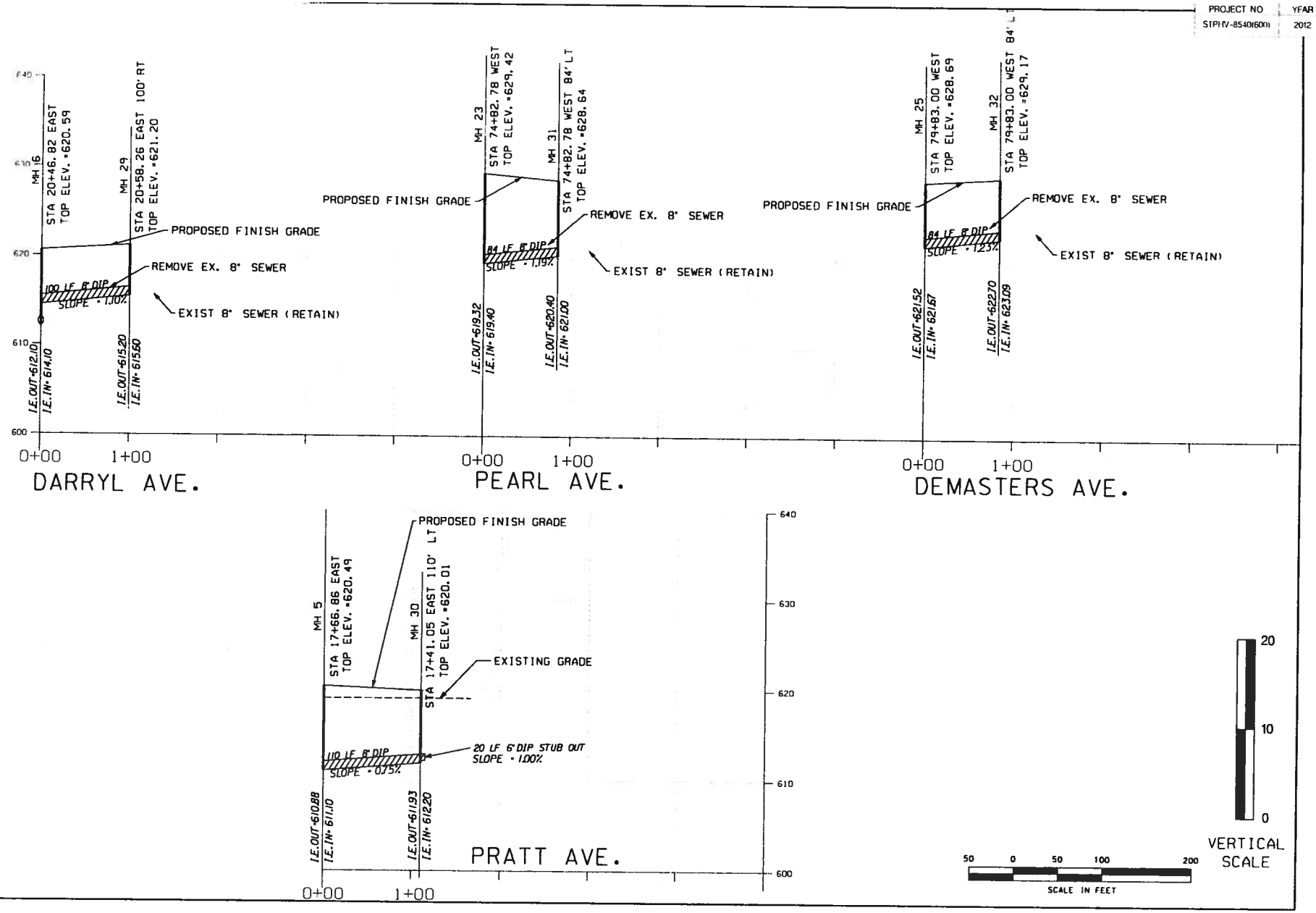


CHURCH STREET SANITARY SEWER EAST



CHURCH STREET SANITARY SEWER PROFILE SHEET

PROJECT NO	YEAR	NO
STP(V-8540(600)	2012	21H



DARRYL AVE, PEARL AVE, DEMASTERS AVE, AND PRATT AVE SANITARY SEWER PROFILE SHEET

EROSION AND SEDIMENT CONTROL PLANS LEGEND

BEST MANAGEMENT PRACTICES (BMP's)

TEMPORARY SLOPE DRAIN PIPE WITH ROCK DITCH CHECK AND SUMP EXCAVATION	
TEMPORARY EARTH BERM	
BRUSH BARRIER	
SILT FENCE SEDIMENT BARRIER	
FLOATING BASIN BOOM	
HAY BALE DITCH CHECK	
SILT FENCE DITCH CHECK	
SAND BAG DITCH CHECK	
WATTLE DITCH CHECK	
SILT DIKE DITCH CHECK	
ROCK DITCH CHECK	
ROCK DITCH CHECK WITH SUMP EXCAVATION	

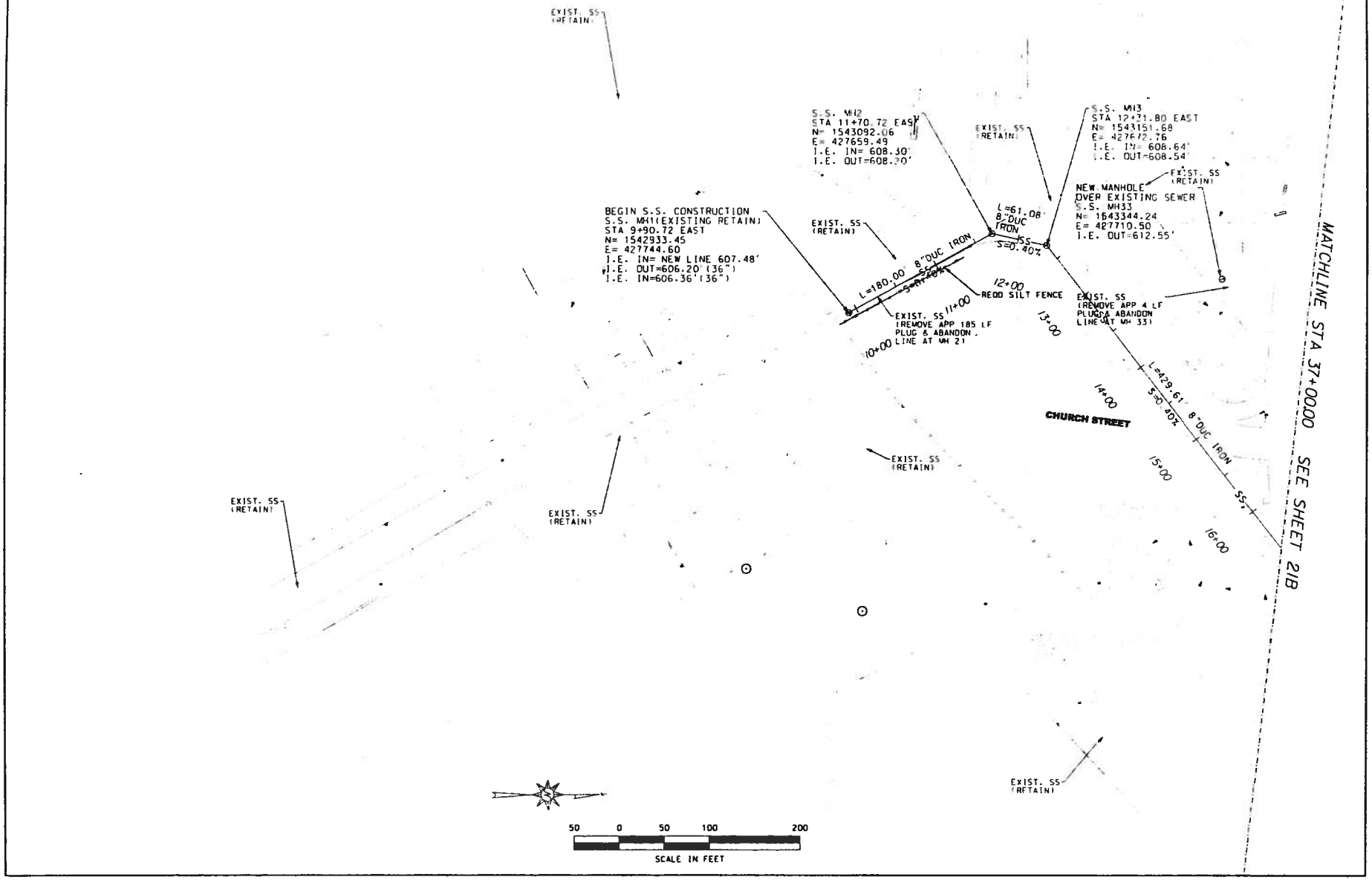
INLET PROTECTION (Aggregate, Wattle, Manufactured, or Sand bag)	
STABILIZED CONSTRUCTION ENTRANCE	SCE
TEMPORARY ROLLED EROSION CONTROL PRODUCTS	
SLOPE DRAIN	
STORM WATER DISCHARGE POINT	25
TEMPORARY EARTH BERM WITH POLYETHLENE	
DREDGE, FILL	

ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL PROJECT DETAIL

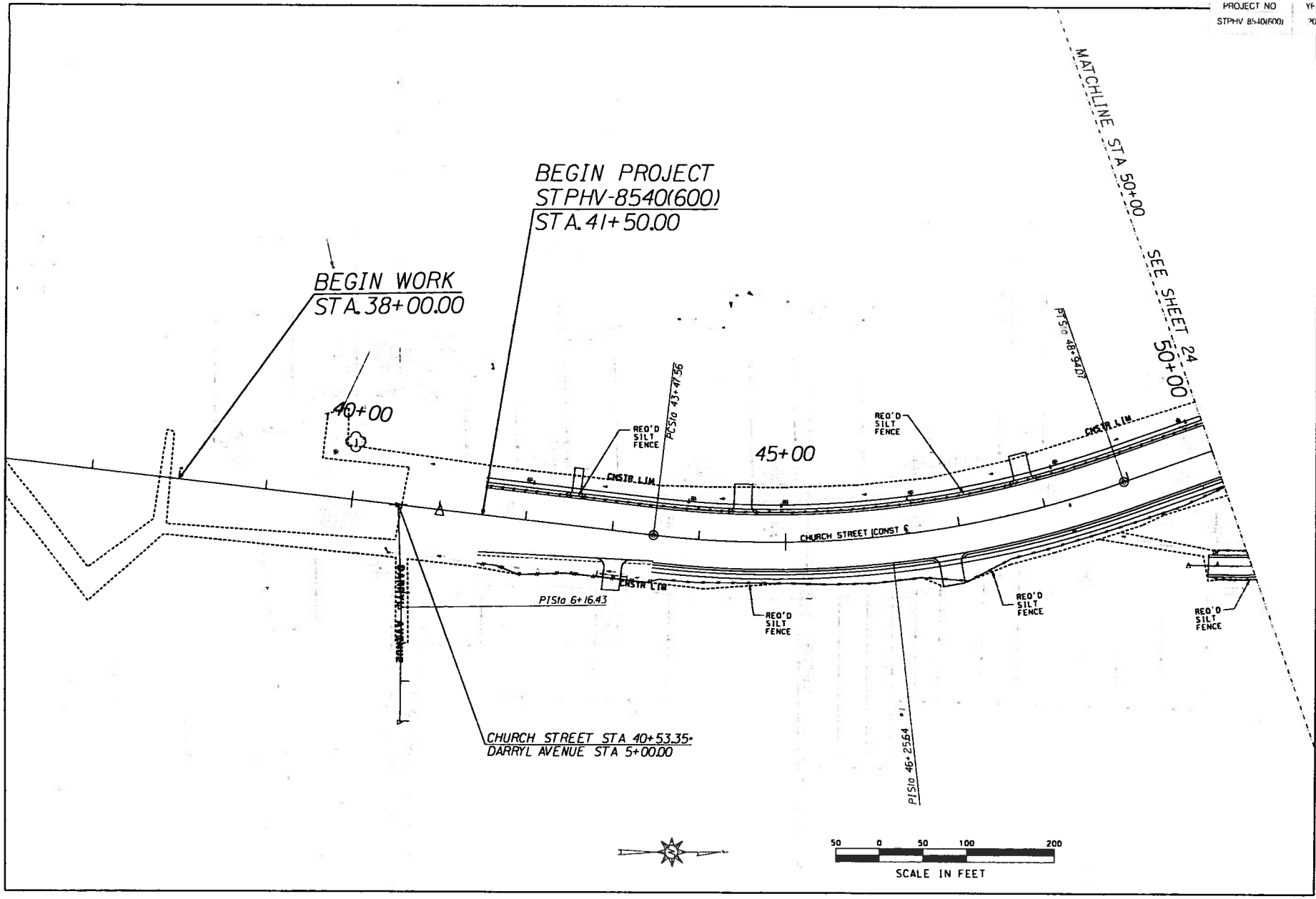
EROSION AND SEDIMENT CONTROL LEGEND

NOT TO SCALE


EXIST. SS (RETAIN)
S.S. MH2
STA 11+70.72 EAST
N= 1543092.06
E= 427659.49
I.E. IN= 608.30'
I.E. OUT=608.20'
EXIST. SS (RETAIN)
S.S. MH3
STA 12+31.80 EAST
N= 1543151.68
E= 427672.76
I.E. IN= 608.64'
I.E. OUT=608.54'
EXIST. SS (RETAIN)
NEW MANHOLE OVER EXISTING SEWER
S.S. MH33
N= 1543344.24
E= 427710.50
I.E. OUT=612.55'
BEGIN S.S. CONSTRUCTION
S.S. MH1(EXISTING RETAIN)
STA 9+90.72 EAST
N= 1542933.45
E= 427744.60
I.E. IN= NEW LINE 607.48'
I.E. OUT=606.20' (36")
I.E. IN=606.36'(36")
EXIST. SS (RETAIN)
L=180.00' 8"DUC IRON
S=0.40%
L=61.08' 8"DUC IRON
S=0.40%
12+00
REOD SILT FENCE
EXIST. SS (REMOVE APP 185 LF PLUG & ABANDON LINE AT MH 21)
EXIST. SS (REMOVE APP 4 LF PLUG & ABANDON LINE AT MH 33)
10+00
11+00
13+00
14+00
15+00
16+00
L=429.61' 8"DUC IRON
S=0.40%
CHURCH STREET
EXIST. SS (RETAIN)
EXIST. SS (RETAIN)
EXIST. SS (RETAIN)
EXIST. SS (RETAIN)
MATCHLINE STA 37+00.00 SEE SHEET 21B
50 0 50 100 200
SCALE IN FEET

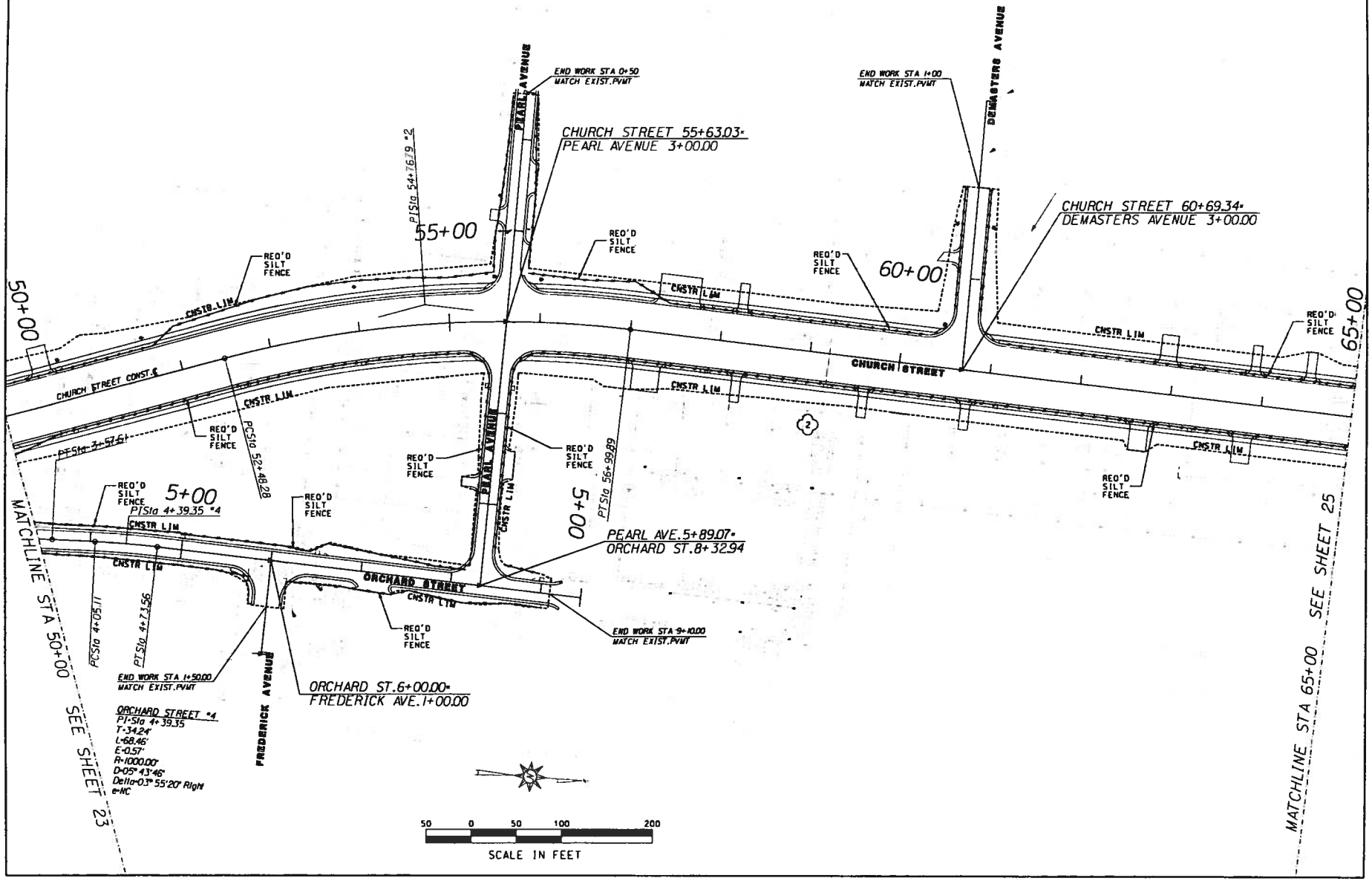
PROJECT NO	YEAR	NO
STPHV 8540(600)	2012	24

PROJ. NOTES
900

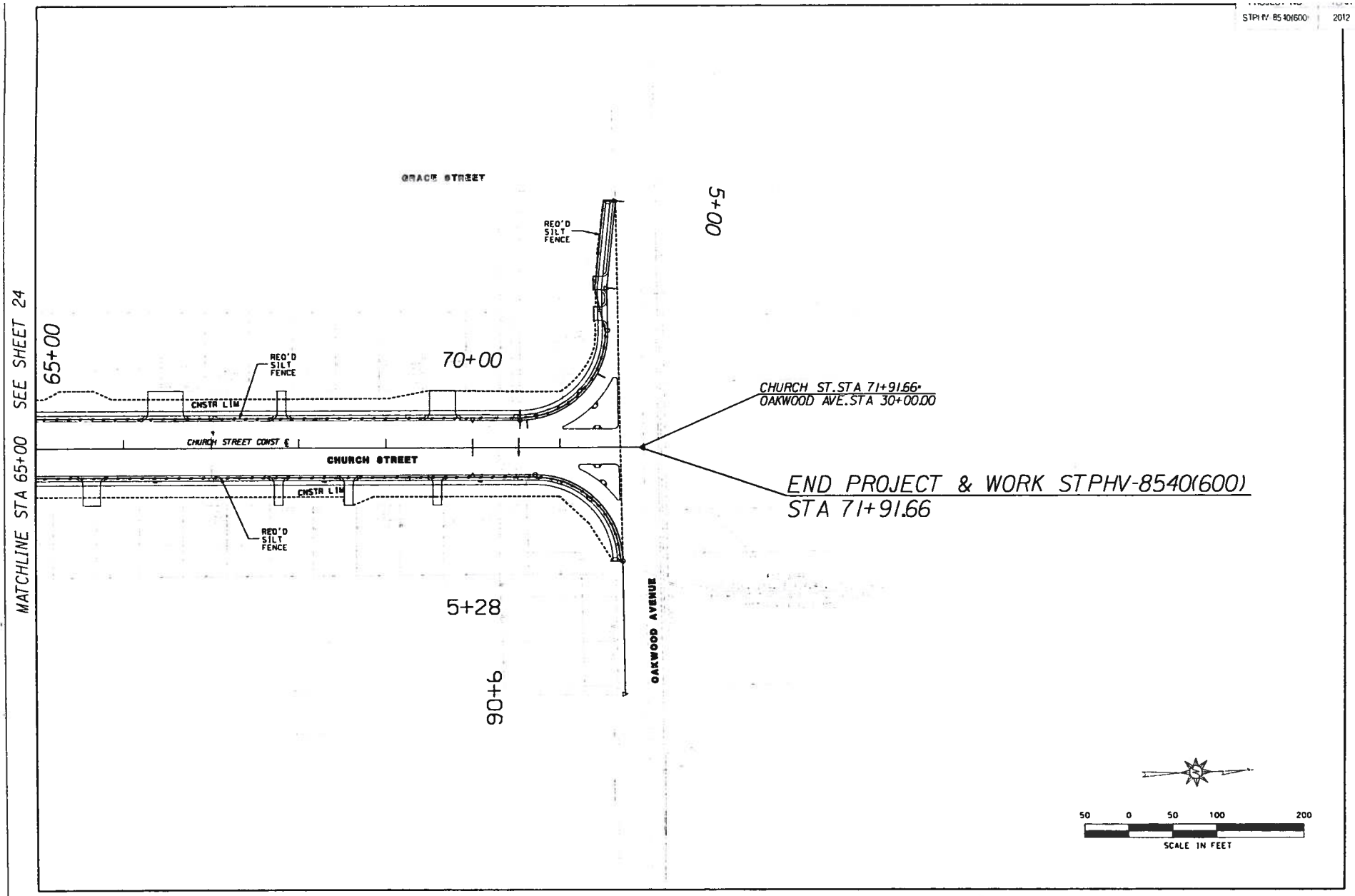


CHURCH STREET EROSION CONTROL AND SEDIMENT PLAN PHASE I

PROJECT NO.	YEAR	NO
STPHV 8540(600)	2012	25



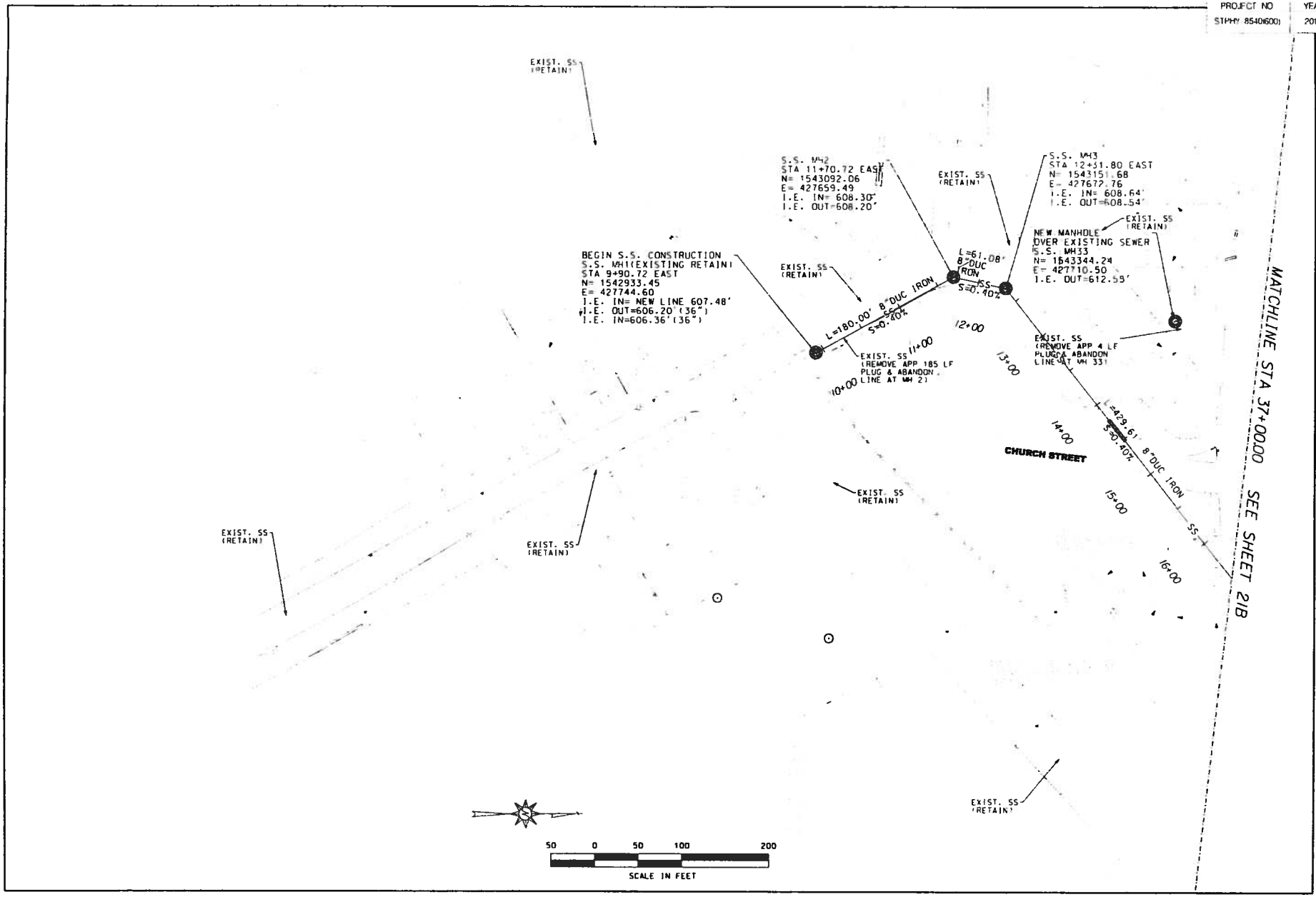
CHURCH STREET EROSION CONTROL AND SEDIMENT PLAN PHASE I



CHURCH STREET EROSION CONTROL AND SEDIMENT PLAN PHASE I

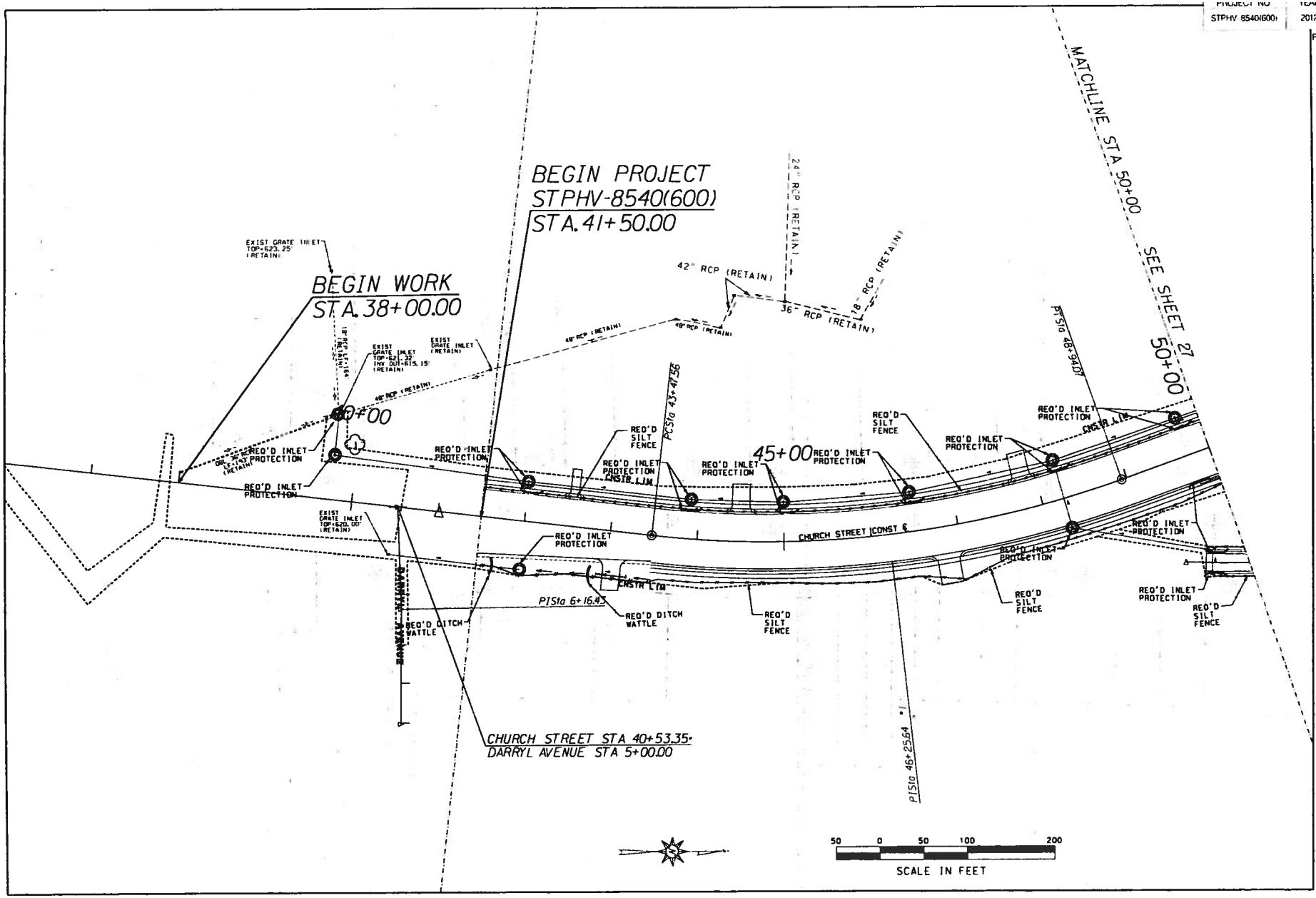
PROJECT NO	YEAR	NO
STPHY 8540(600)	2012	27

GN-2 NOTES
133

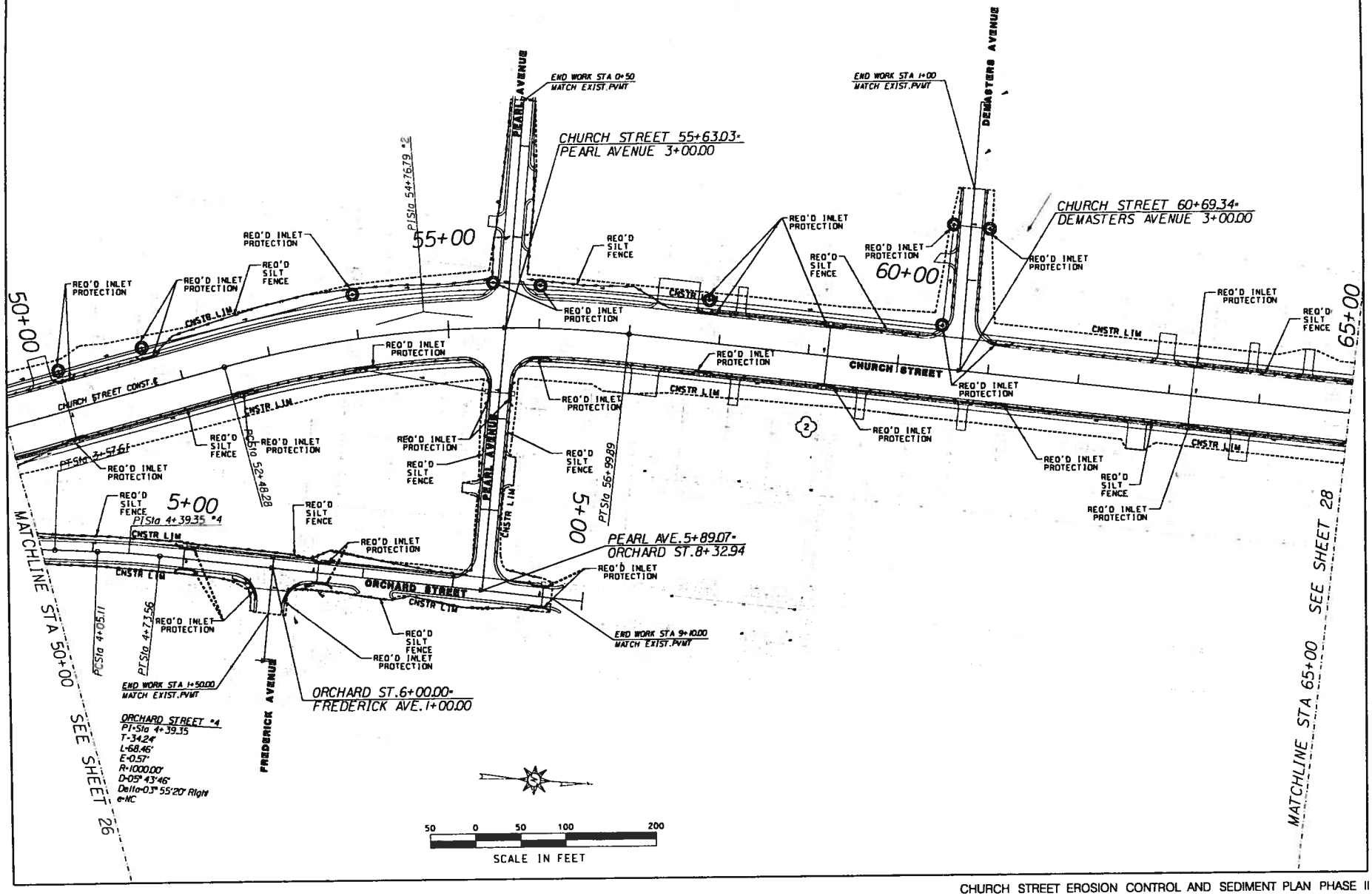


PROJECT NO	YEAR	NO
STPHV 8540(600)	2012	28

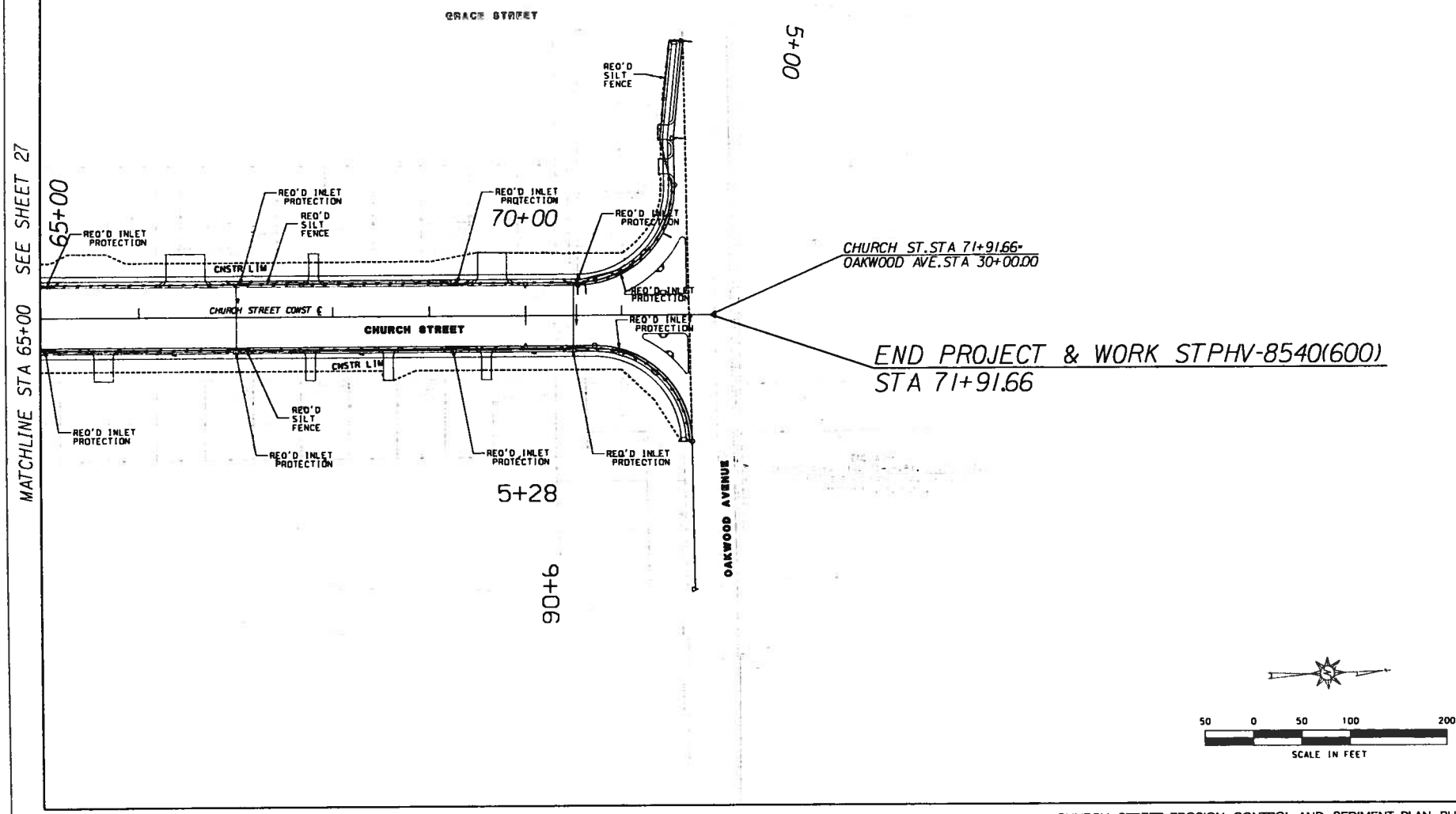
PROJ. NOTES.
900



CHURCH STREET EROSION CONTROL AND SEDIMENT PLAN PHASE II



CHURCH STREET EROSION CONTROL AND SEDIMENT PLAN PHASE II



CHURCH STREET EROSION CONTROL AND SEDIMENT PLAN PHASE II

TRAFFIC CONTROL PLAN-SEQUENCE OF CONSTRUCTION
PROJECT NO. STPHV-8540(600)

PHASE I

- INSTALL TRAFFIC CONTROL DEVICES.

PHASE II

- CLOSE ORCHARD STREET AND HUNDLEY DRIVE TO THRU TRAFFIC AS SHOWN ON SHEET 39. INSTALL DETOUR SIGNING. SHIFT TRAFFIC TO CHURCH STREET DETOUR. USE TEMPORARY TRAFFIC CONTROL DEVICES TO CONSTRUCT RELOCATED CHURCH STREET IMPROVEMENTS FROM STA 41+50 TO STA 71+91.66. OF OAKWOOD AVENUE.
- CONSTRUCT TEMPORARY INTERSECTION CONNECTIONS AND INSTALL TEMPORARY STRIPING.
- REMOVE EXISTING PAVEMENT AS SHOWN ON PLANS.
- CONSTRUCT REQUIRED IMPROVEMENTS.

PHASE III

- PLACE REQUIRED WEARING SURFACE, PERMANENT SIGNING, STRIPING, AND MARKINGS.
- OPEN TRAFFIC TO RELOCATED CHURCH STREET.

PHASE IV

- COMPLETE ANY REMAINING ITEMS OF WORK.
- REMOVE TRAFFIC CONTROL DEVICES.

TRAFFIC CONTROL QUANTITIES

QUANTITIES FOR TRAFFIC CONTROL DEVICES

ITEM NO.	UNIT	DESCRIPTION	QUANTITY	DWG. NO.
740B-000	SQ. FT.	CONSTRUCTION SIGNS	1372	SEE BELOW
7401-005	EACH	WARNING LIGHTS, TYPE B (DETACHABLE HEAD)	11	B-107-2
740F-002	EACH	BARRICADES, TYPE III	22	B-107-2
674A-000	LIN. FT.	CONSTRUCTION SAFETY FENCE	1000	
740E-000	EACH	CONES (36" HIGH)	30	TCD-100
740M-001	EACH	BALLAST FOR CONES	30	TCD-100
741C-010	EACH	PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT	2	
740D-000	EACH	CHANNELIZING DRUMS	370	TCD-100

REQ'D TRAFFIC CONTROL PLAN NOTES

700	709	723	739	753
701	710	725	740	
702	711	727	742	
703	712	729	744	
704	713	732	747	
705	715	733	750	
707	716	736	751	
708	720	737	752	

QUANTITIES FOR CONSTRUCTION SIGNS

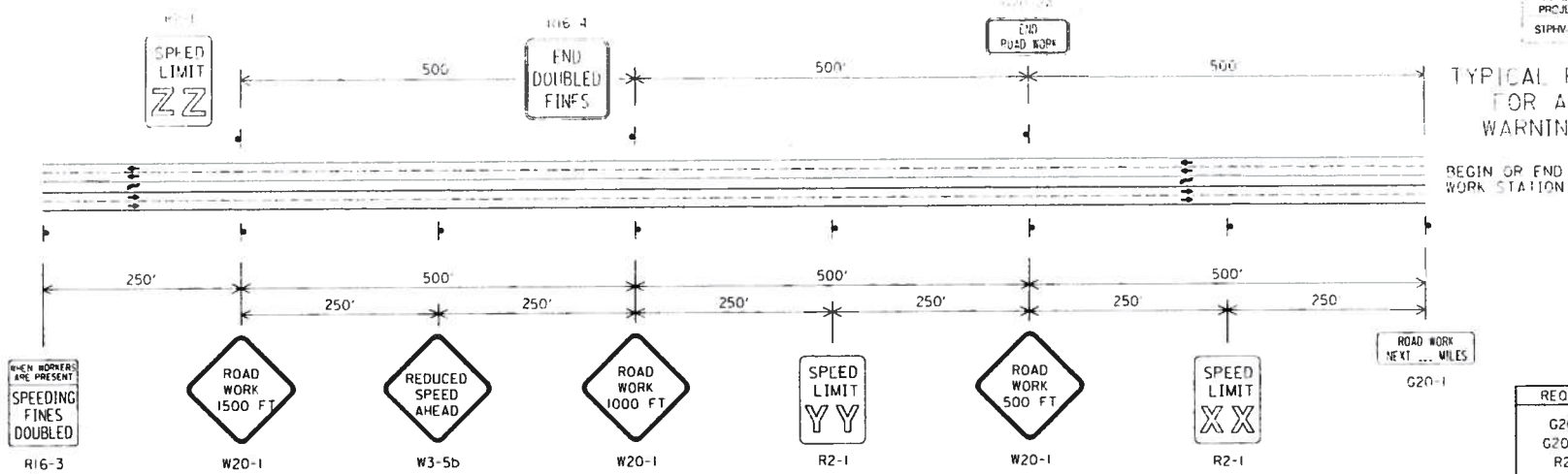
ITEM NO. 740B-000

NO.	SIGN NO.	SIZE	DESCRIPTION	DWG. NO.	REQ'D.	SQ. FT. EA.	TOTAL
1	G20-2A	48" X 24"	END ROAD WORK	SHS-27	4	8	32
2	M4-10R	48" X 18"	DETOUR DIRECTIONAL ARROW	SHS-27	2	6	12
3	M4-10L	48" X 18"	DETOUR DIRECTIONAL ARROW	SHS-27	1	6	6
4	R11-4	60" X 30"	ROAD CLOSED TO THRU TRAFFIC	SHS-7	9	12.5	112.5
5	W20-1	48" X 48"	ROAD WORK 1500 FT.	SHS-25	4	16	64
6	W20-1	48" X 48"	ROAD WORK 1000 FT.	SHS-25	4	16	64
7	W20-1	48" X 48"	ROAD WORK 500 FT.	SHS-25	4	16	64
8	W20-1	48" X 48"	ROAD WORK AHEAD	SHS-25	10	16	160
9	W20-7a	48" X 48"	FLAGGER SYMBOL	SHS-25	10	16	160
10	M4-8a	36" X 24"	END DETOUR	SHS-27	2	6	12
11	W3-5	48" X 48"	SPEED LIMIT 30 AHEAD SYMBOL	SHS-27	4	16	64
12	W20-2	48" X 48"	DETOUR AHEAD	SHS-25	4	16	64
13	W20-5	48" X 48"	CENTER LANE CLOSED 1500'	SHS-25	4	16	64
14	W20-5	48" X 48"	CENTER LANE CLOSED 1000'	SHS-25	4	16	64
15	W20-5	48" X 48"	CENTER LANE CLOSED 500'	SHS-25	4	16	64
16	W20-5	48" X 48"	RIGHT LANE CLOSED 1500'	SHS-25	4	16	64
17	W20-5	48" X 48"	RIGHT LANE CLOSED 1000'	SHS-25	4	16	64
18	W20-5	48" X 48"	LEFT LANE CLOSED 1500'	SHS-25	4	16	64
19	W20-5	48" X 48"	LEFT LANE CLOSED 1000'	SHS-25	4	16	64
20	W4-2	48" X 48"	LANE REDUCTION SYMBOL	SHS-22	4	16	64
21	M4-9L	30" X 24"	DETOUR WITH DIRECTIONAL ARROW	SHS-27	3	5	15
22	M4-9R	30" X 24"	DETOUR WITH DIRECTIONAL ARROW	SHS-27	2	5	10
TOTALS							1372

NOTE: SEE STANDARD DRAWINGS
IHS-710-12
IHS-710-21
IHS-710-23
B-107-2
TCD-100
SHS-7
SHS-22
SHS-25
SHS-27

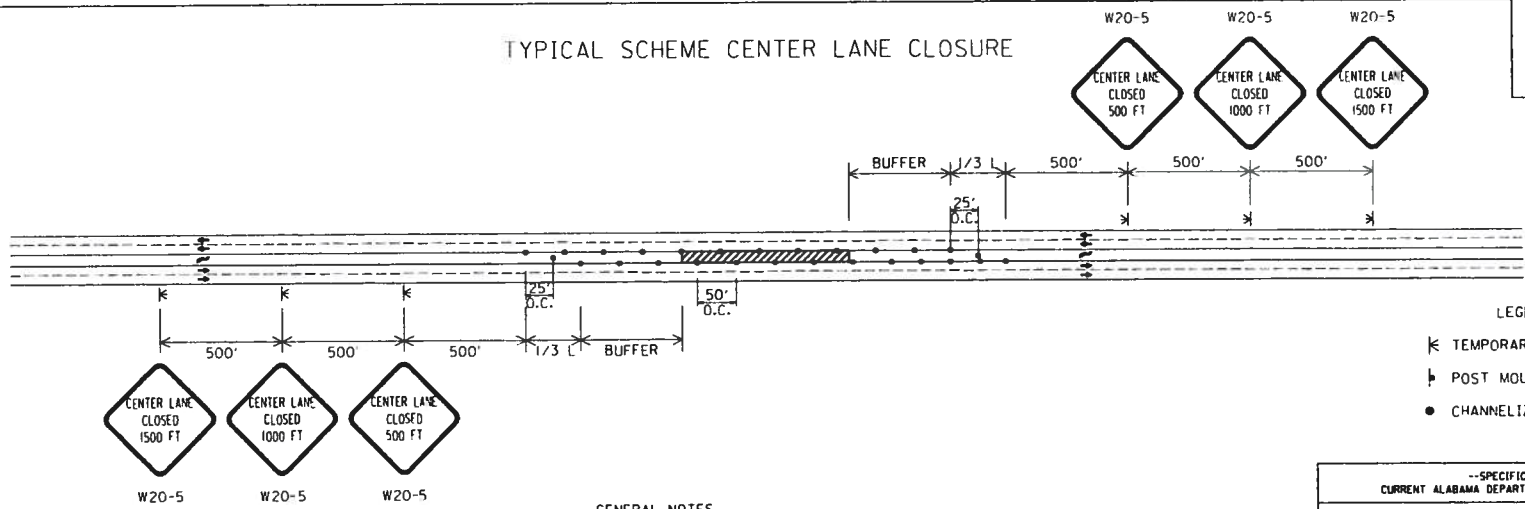
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8540(006)	2012	34

TYPICAL PLACEMENT FOR ADVANCE WARNING SIGNS



REQUIRED SIGN SIZES	
G20-1	60" X 24"
G20-2A	48" X 24"
R2-1	24" x 30"
W3-5b	48" X 48"
R16-3	48" X 60"
R16-4	48" X 48"
W20-1	48" X 48"
W20-5	48" X 48"

TYPICAL SCHEME CENTER LANE CLOSURE



LEGEND

- TEMPORARY MOUNTED SIGN
- POST MOUNTED SIGN
- CHANNELIZING DRUM

GENERAL NOTES

1. ALL ADVANCE WARNING SIGNS REQUIRED AT THE BEGINNING AND END OF PROJECT SHALL BE POST MOUNTED. ALL SIGNS REQUIRED FOR THE LANE CLOSURE SHALL BE TEMPORARY MOUNTED.
2. SIGN (XX) SHALL SHOW THE SPEED IN THE WORK ZONE. SIGN (YY) SHALL BE USED IF SPEED REDUCTION REQUIRES TWO SIGNS. SIGN(ZZ) SHALL SHOW THE POSTED SPEED OUTSIDE THE WORK ZONE.

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, REFERRED, OR USED BY ANYONE OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

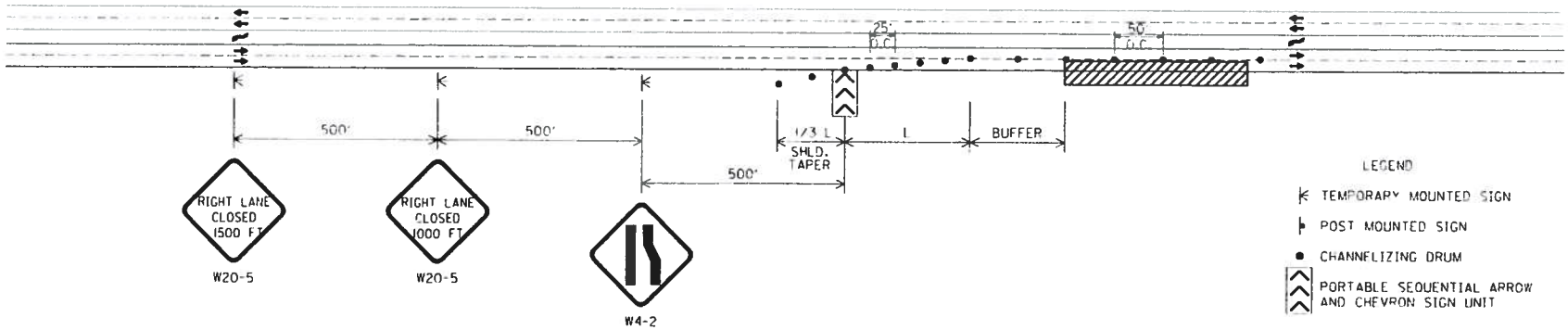
ALABAMA DEPARTMENT OF TRANSPORTATION

DETAILS FOR TRAFFIC CONTROL FOR 5-LANE HIGHWAYS

TEMPORARY TRAFFIC CONTROL

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(600)	2012	35

TYPICAL SCHEME FOR OUTSIDE LANE CLOSURE

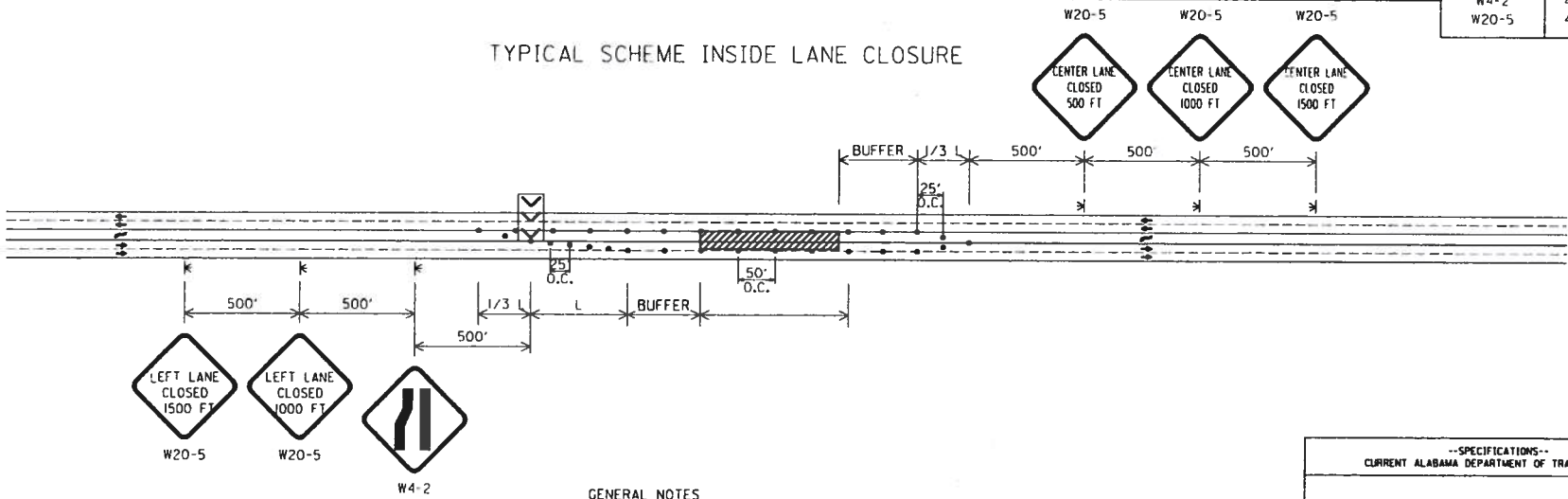


LEGEND

- TEMPORARY MOUNTED SIGN
- POST MOUNTED SIGN
- CHANNELIZING DRUM
- PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT

REQUIRED SIGN SIZES	
W4-2	48" X 48"
W20-5	48" X 48"

TYPICAL SCHEME INSIDE LANE CLOSURE



GENERAL NOTES

1. ALL SIGNS SHALL BE TEMPORARY MOUNTED AS SHOWN.

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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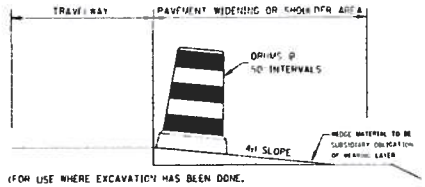
ALABAMA DEPARTMENT OF TRANSPORTATION

DETAILS FOR TRAFFIC CONTROL FOR 5-LANE HIGHWAYS

TEMPORARY TRAFFIC CONTROL

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(600)	2012	36

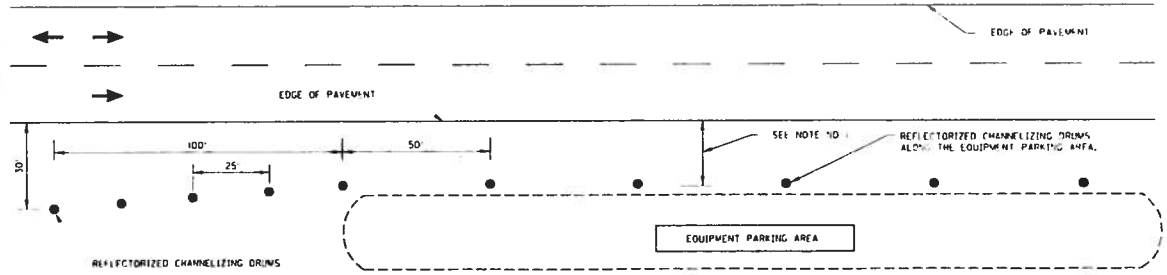


(FOR USE WHERE EXCAVATION HAS BEEN DONE, BUT WIDENING IS NOT COMPLETED BY NIGHTFALL OR WHERE PAVEMENT DROP OFF OF RESURFACING PROJECTS IS 3" OR MORE AT NIGHTFALL)

TYPICAL FOR DROP-OFF AT EDGE OF PAVEMENT

NOTE: THE CONTRACTOR IS TO CONSTRUCT A WEDGE OF UNCLASSIFIED EXCAVATION OR CRUSHED AGGREGATE BASE. THE COST OF PLACING AND REMOVAL SHALL BE A SUBSIDIARY OBLIGATION OF THE ADJACENT LAYER.

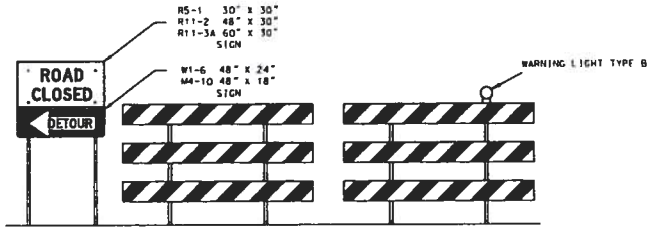
CHANNELIZING DRUMS SHALL BE PLACED AT 50 FT INTERVALS.



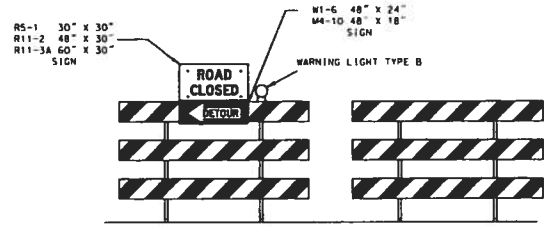
NOTES:

1. DRUMS TO BE AS FAR AS PRACTICAL FROM EDGE OF PAVEMENT. MINIMUM DESIRABLE DISTANCE IS 15 FEET FOR FREEWAY TYPE FACILITIES AND 10 FEET FOR OTHER FACILITIES. FOR UNUSUAL CONDITIONS, SUCH AS SPECIAL EQUIPMENT OR LIMITED AVAILABLE SPACE, DIMENSIONS LESS THAN DESIRABLE SHALL BE AS DIRECTED BY THE ENGINEER.
2. ALL DEVICES TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE ALDOT.

DELINEATING DETAILS FOR EQUIPMENT PARKING AREA



DETAILS FOR TYPICAL PLACEMENT OF TYPE III BARRICADES INSIDE OF CLEAR ZONE



DETAILS FOR TYPICAL PLACEMENT OF TYPE III BARRICADES OUTSIDE OF CLEAR ZONE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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ALABAMA DEPARTMENT OF TRANSPORTATION

STANDARD DETAILS FOR TRAFFIC CONTROL PLANS

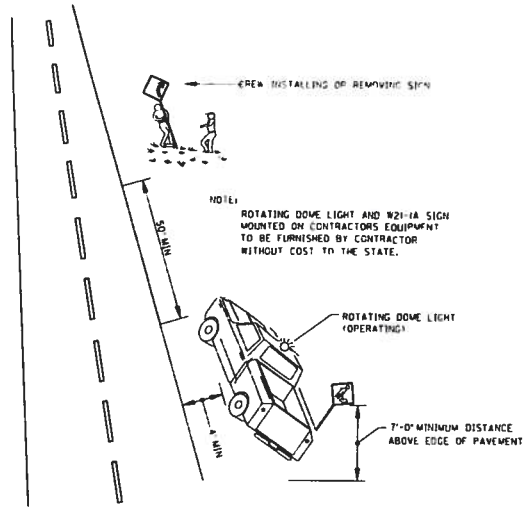
TEMPORARY TRAFFIC CONTROL

NOTES

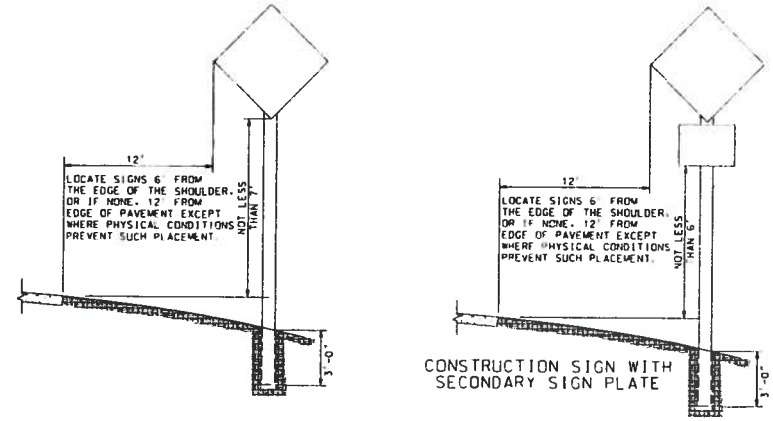
1. SLOPE OF STRIPES ON BARRICADES SHALL BE IN ACCORDANCE WITH SECTION 6F.63 OF THE MUTCD AND DRAWING B-107-2.
2. IF SIGNS ARE REQUIRED TO BE USED IN CONJUNCTION WITH TYPE III BARRICADES TO BE PLACED INSIDE THE CLEAR ZONE, THEY SHALL BE POST MOUNTED TO THE SIDE OF THE BARRICADES AS SHOWN.
3. IF ROAD CLOSED OR DETOUR SIGNS ARE REQUIRED TO BE USED WITH TYPE III BARRICADES TO BE PLACED OUTSIDE THE CLEAR ZONE, THEY SHALL BE PLACED ON THE TOP OF THE BARRICADES NEAREST THE DETOUR.

NOT TO SCALE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO.
STPHV 8545(000)	2012	37

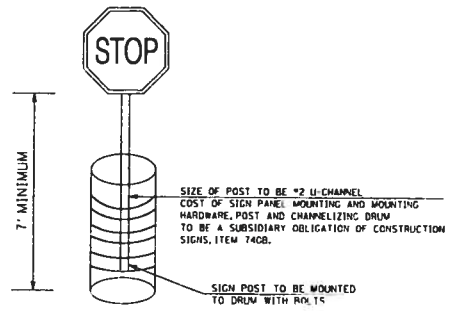


TYPICAL METHOD FOR INSTALLING OR REMOVING CONSTRUCTION SIGNS



NOTE : IF THE CONTRACTOR CHOOSES TO SPLICE THE POSTS FOR THE REQUIRED POST MOUNTED CONSTRUCTION SIGNS, THEY SHALL BE SPLICED AS SHOWN ON DRAWING IHS-710-23.

HEIGHT AND LATERAL LOCATION OF POST MOUNTED CONSTRUCTION SIGNS



DETAIL FOR DRUM MOUNTED CONSTRUCTION SIGNS

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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REVISIONS

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36110-2060

DESIGN BUREAU SPECIAL DRAWING

STANDARD DETAILS FOR TRAFFIC CONTROL PLANS

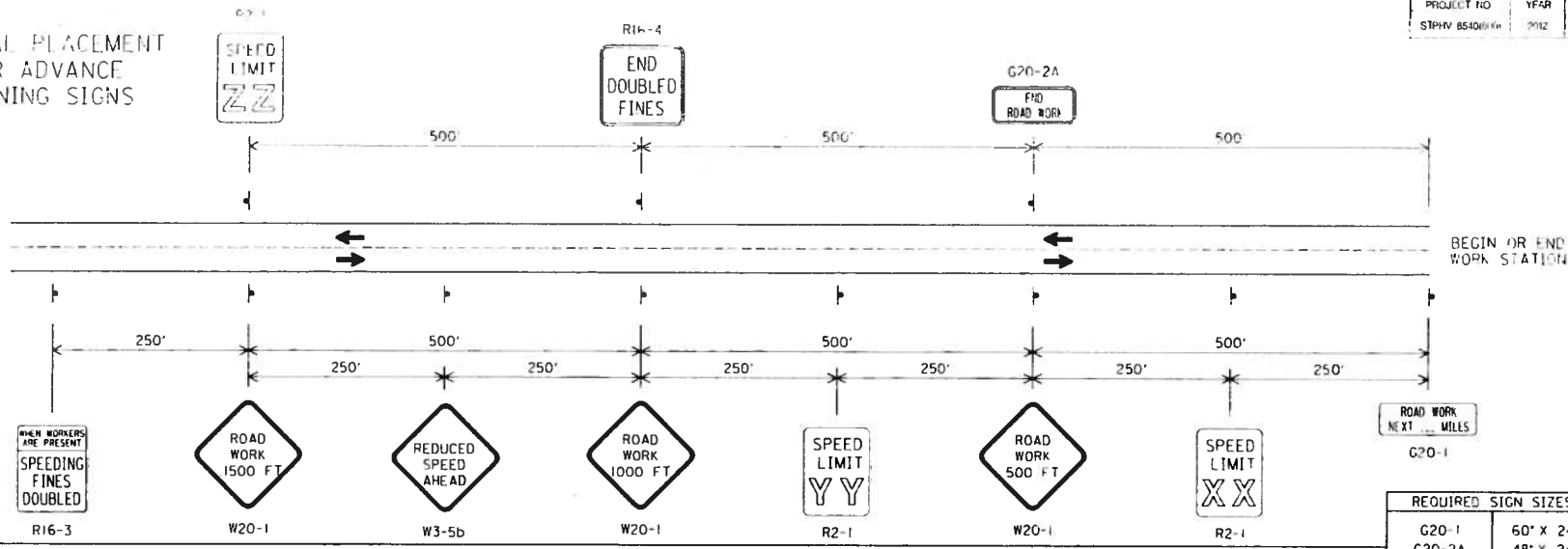
DRAWN BY:
DATE DRAWN: 11-0-2003

SPECIAL DRAWING NO.
TEMPORARY TRAFFIC CONTROL

INDEX NO.

REFERENCE PROJECT NO	SIGN YEAR	SHEET NO
STPHV 8540(6)(6)	2012	38

TYPICAL PLACEMENT FOR ADVANCE WARNING SIGNS

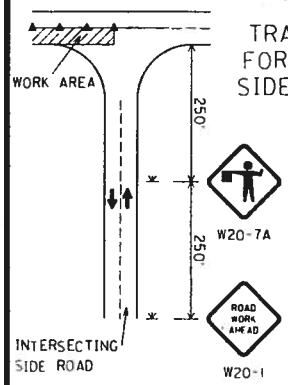


GENERAL NOTES

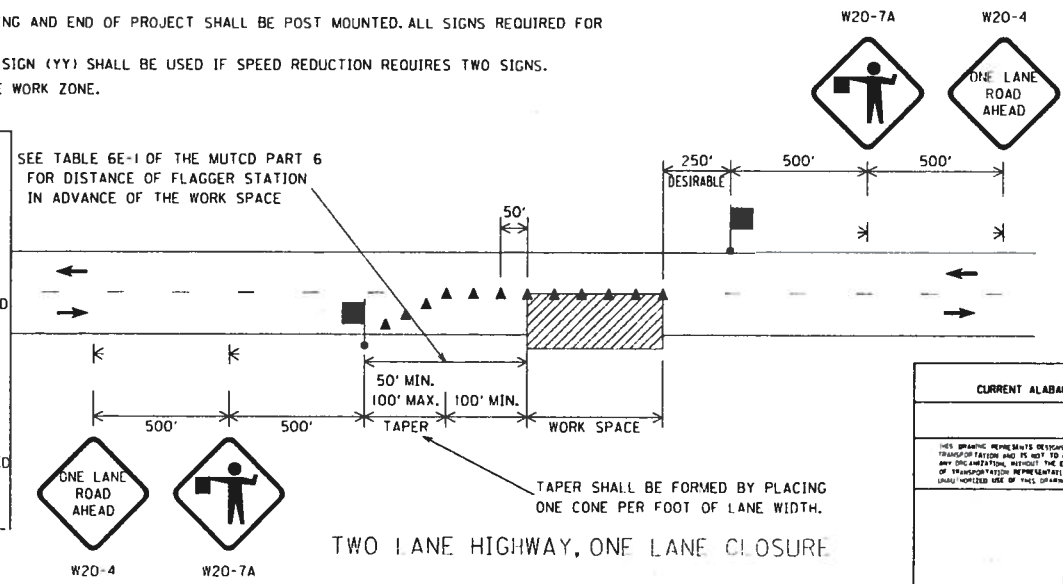
1. ALL ADVANCE WARNING SIGNS REQUIRED AT THE BEGINNING AND END OF PROJECT SHALL BE POST MOUNTED. ALL SIGNS REQUIRED FOR THE LANE CLOSURE SHALL BE TEMPORARY MOUNTED.
2. SIGN (XX) SHALL SHOW THE SPEED IN THE WORK ZONE. SIGN (YY) SHALL BE USED IF SPEED REDUCTION REQUIRES TWO SIGNS. SIGN(ZZ) SHALL SHOW THE POSTED SPEED OUTSIDE THE WORK ZONE.

REQUIRED SIGN SIZES	
G20-1	60" X 24"
G20-2A	48" X 24"
R2-1	24" x 30"
W3-5b	48" x 48"
R16-3	48" X 60"
R16-4	48" X 48"
W20-1	48" X 48"
W20-4	48" X 48"
W20-7A	48" X 48"

TRAFFIC CONTROL FOR INTERSECTING SIDE ROADS WITHIN WORK AREA



NOTE: THE W20-1 AND W20-7A SIGNS TO BE USED ON INTERSECTING ROADS SHALL BE 36"X36" IN SIZE. THE TEMPORARY MOUNTED W20-1 ROAD WORK AHEAD SIGN SHOWN ON THE SIDE ROAD WILL NOT BE REQUIRED IF ONE IS ALREADY POST MOUNTED ON THE SIDE STREET.



TWO LANE HIGHWAY, ONE LANE CLOSURE

LEGEND

- TEMPORARY MOUNTED SIGN
- POST MOUNTED SIGN
- CONES
- FLAGGER

--SPECIFICATIONS--
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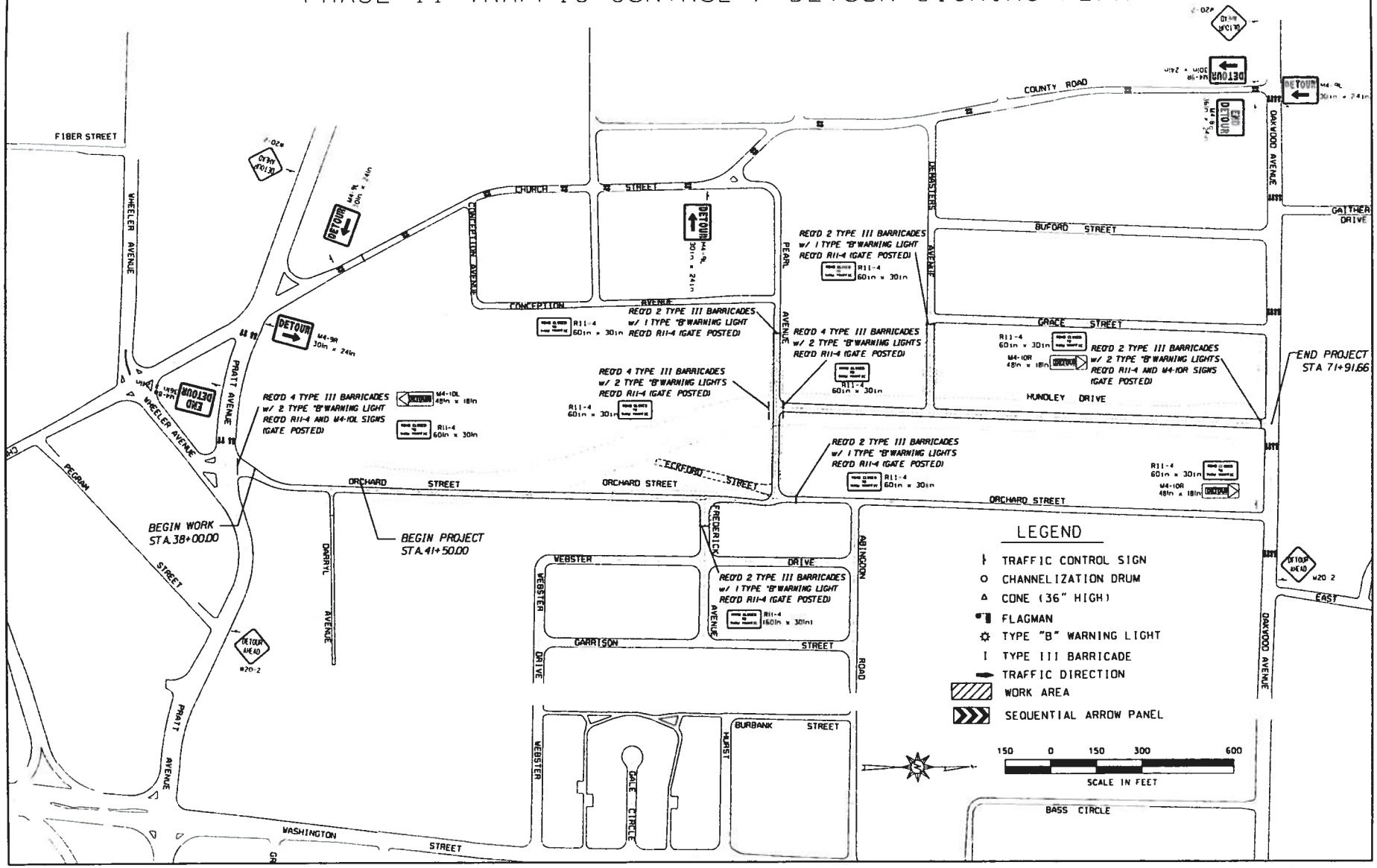
ALABAMA DEPARTMENT OF TRANSPORTATION

DETAILS FOR TRAFFIC CONTROL FOR TWO LANE HIGHWAYS

TEMPORARY TRAFFIC CONTROL

PROJECT NO	YEAR	NO
STPHV 8540(800)	2012	39

PHASE II TRAFFIC CONTROL / DETOUR SIGNING PLAN

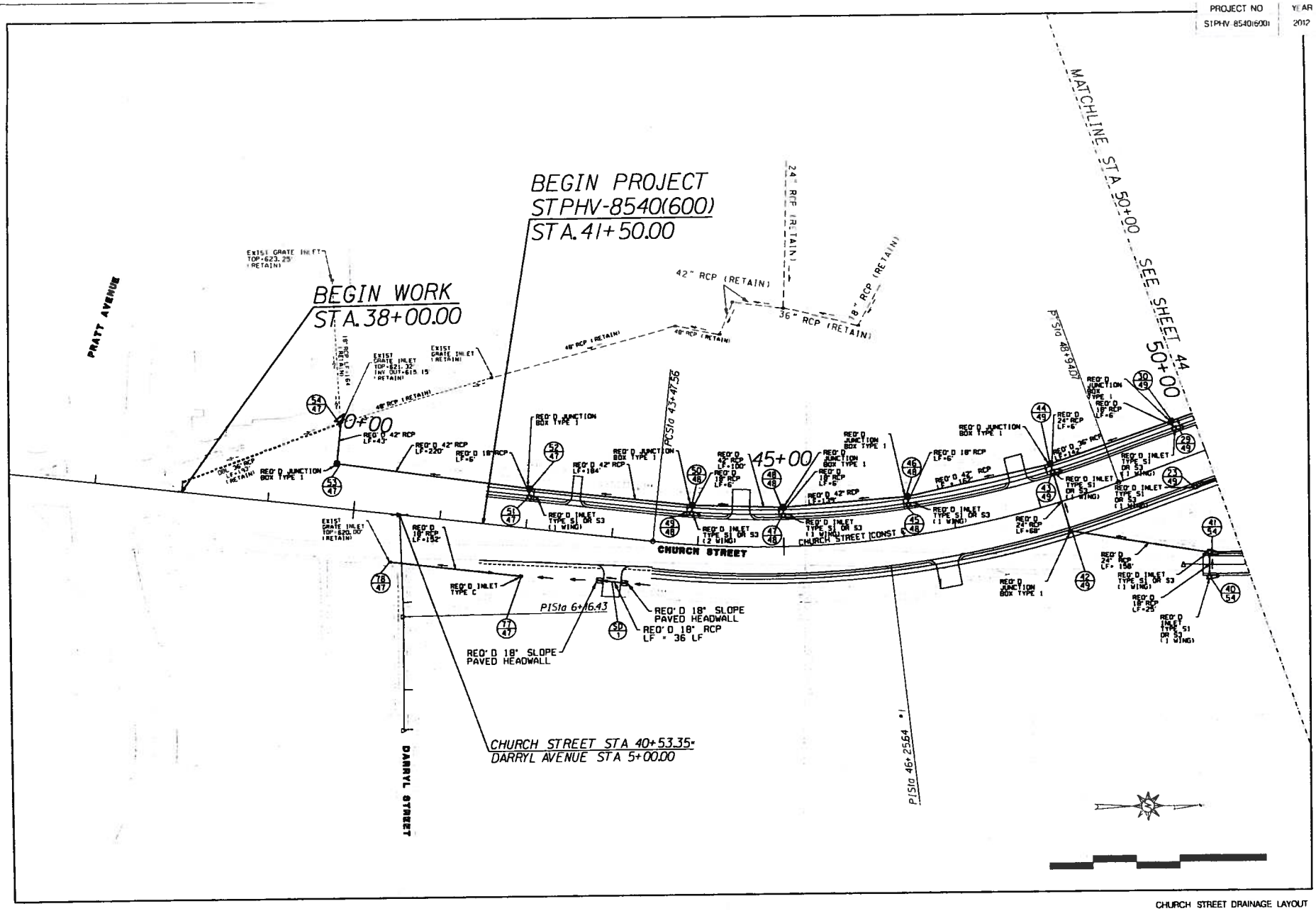


TRAFFIC CONTROL PLAN

HYDRAULIC DATA SHEET

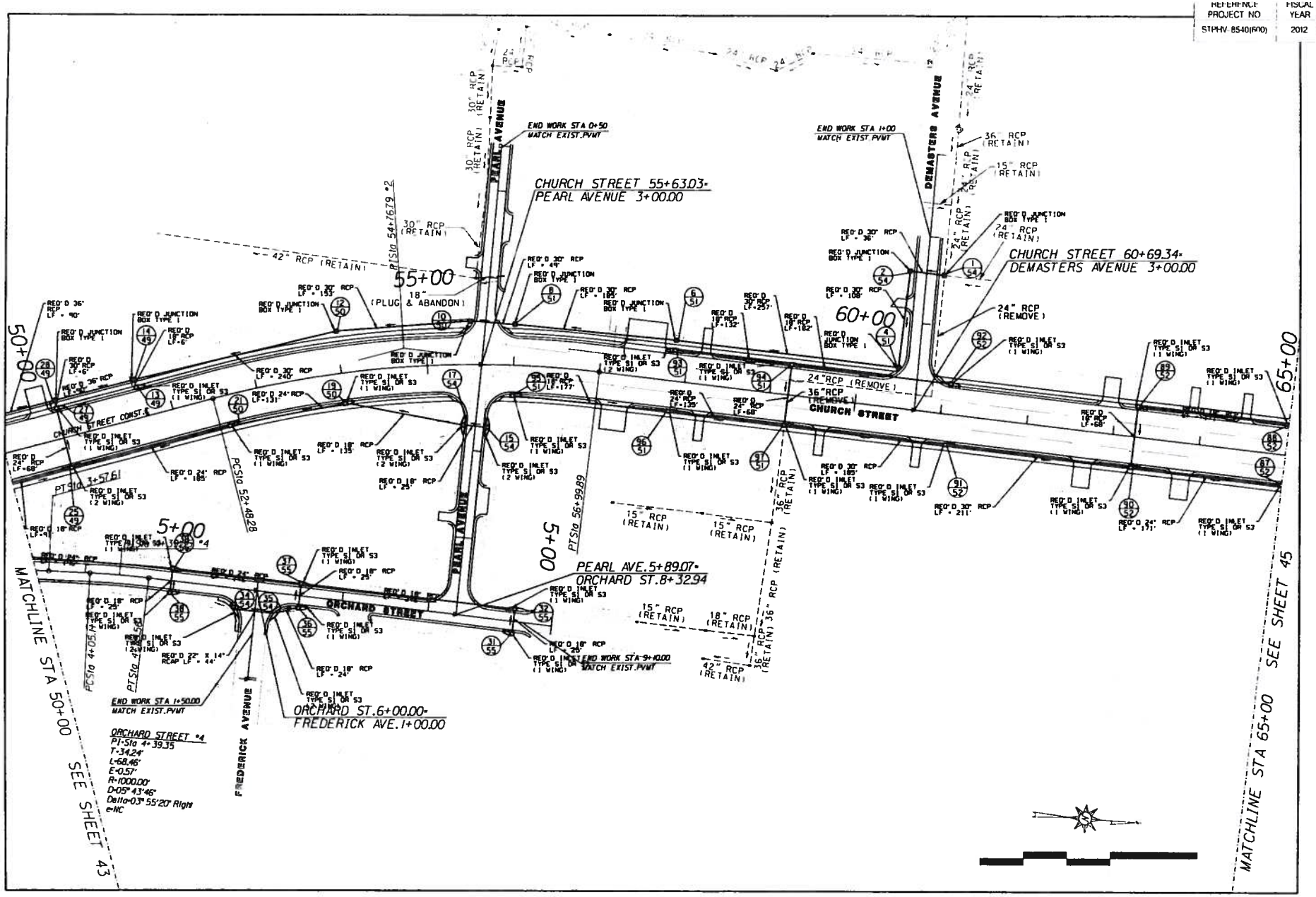
CLOSED STORM DRAIN			
INDEX NO. TO INDEX NO.	DRAINAGE STRUCTURE SIZE	FLOWLINE ELEVATION	SURFACE ELEVATION (WORKING POINT)
1-2	30"	623.88	628.63
2-4	30"	623.75	629.34
4-6	30"	623.38	629.41
6-8	30"	622.45	629.54
8-10	30"	321.78	627.97
10-12	30"	621.60	627.40
12-14	30"	621.05	627.09
13-14	18"	621.45	626.45
14-28	36"	620.20	626.87
27-28	24"	619.92	625.38
28-30	36"	619.88	626.67
29-30	18"	621.10	625.10
30-44	36"	619.56	625.83
31-32	18"	625.42	629.42
32-37	18"	625.09	629.42
34-35	22"x14"	622.44	626.44
35-36	18"	622.22	626.44
36-37	18"	622.10	627.25
37-39	24"	621.98	627.25
38-39	18"	622.80	626.80
39-41	24"	621.25	626.80
40-41	18"	622.20	626.20
41-42	24"	620.27	626.20
42-43	24"	619.48	626.73
43-44	24"	619.14	624.43
44-46	42"	619.06	626.31
45-46	18"	619.91	623.91
46-48	42"	618.49	625.75
47-48	18"	619.46	623.46
48-50	42"	618.00	625.29
49-50	18"	619.13	623.13
50-52	42"	617.65	624.50
51-52	18"	618.57	622.57
52-53	42"	617.00	623.80
53-54	42"	616.35	621.50
77-78	18"	617.51	619.88
79-80	18"	627.32	631.32
81-82	18"	627.49	631.49
80-82	18"	617.12	631.33
82-83	24"	626.82	631.33
83-86	24"	626.29	630.95
84-85	18"	626.95	630.95
85-86	18"	626.28	630.28
86-87	24"	625.31	630.28
87-90	24"	624.45	629.68
88-89	18"	625.68	629.68
89-90	18"	625.15	629.15
90-91	30"	623.70	629.15
91-97	30"	622.77	628.48
92-94	18"	624.50	628.50
93-94	18"	622.45	628.27
95-96	18"	622.76	626.76
94-97	24"	623.59	627.93
96-97	18"	621.89	627.93

PROJECT NO	YEAR	NO
STPHV-8540(600)	2012	43



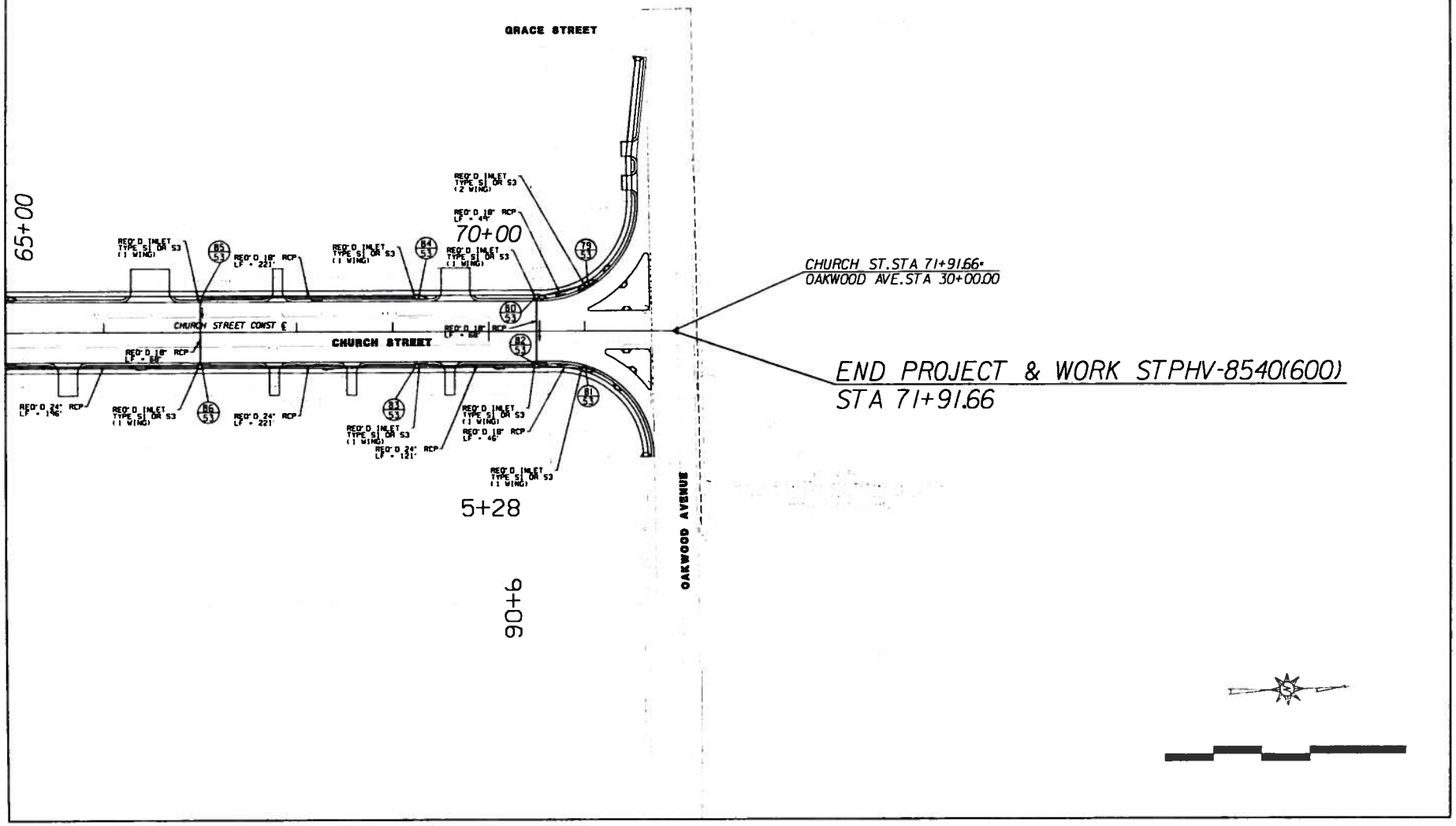
CHURCH STREET DRAINAGE LAYOUT

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8540(600)	2012	44



CHURCH STREET DRAINAGE LAYOUT

PROJECT NO	YEAR	NO
STPHV 8540(600)	2012	45

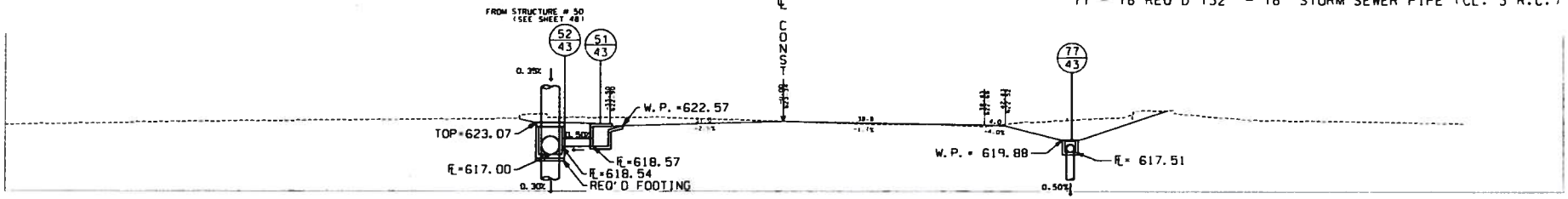


CHURCH STREET DRAINAGE LAYOUT

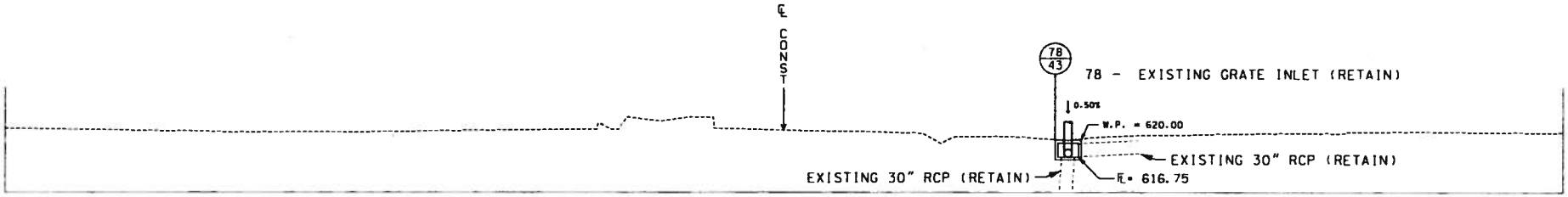
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(600)	2012	47

51 - REQ'D 1 - INLET, TYPE S1 OR S3 (1 WING)
51 - 52 REQ'D 6' - 18" STORM SEWER PIPE (CL. 3 R.C.)
52 - REQ'D 1 - JUNCTION BOX, TYPE 1
52 - REQ'D 2 - JUNCTION BOX UNITS, TYPE 1
52 - 53 REQ'D 220' - 42" STORM SEWER PIPE (CL. 3 R.C.)

77 - REQ'D 1 - INLET, TYPE C
77 - 78 REQ'D 152' - 18" STORM SEWER PIPE (CL. 3 R.C.)

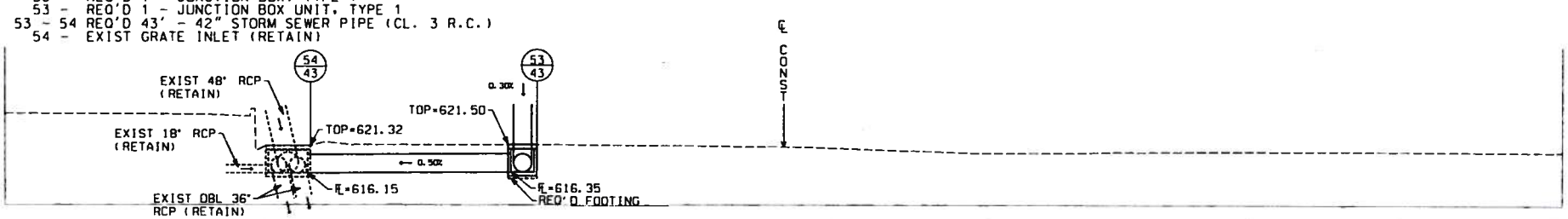


42+00.00



40+48.19

53 - REQ'D 1 - JUNCTION BOX, TYPE 1
53 - REQ'D 1 - JUNCTION BOX UNIT, TYPE 1
53 - 54 REQ'D 43' - 42" STORM SEWER PIPE (CL. 3 R.C.)
54 - EXIST GRATE INLET (RETAIN)

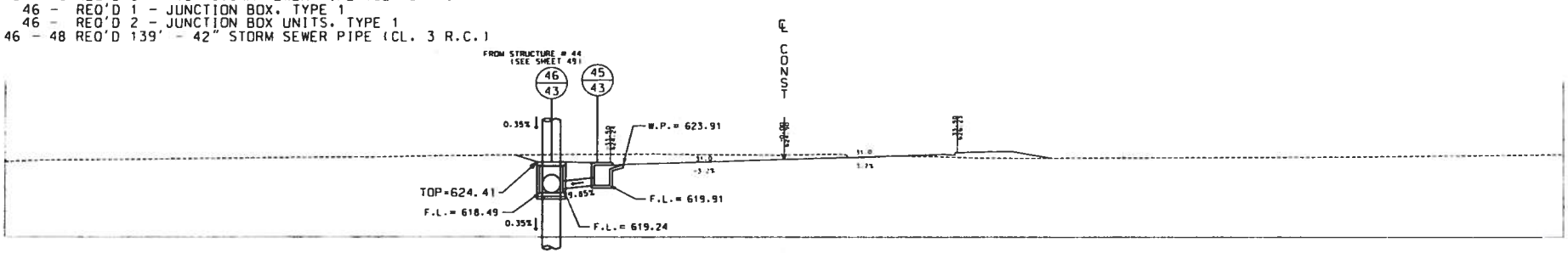


39+75.00

CHURCH STREET DRAINAGE CROSS SECTIONS

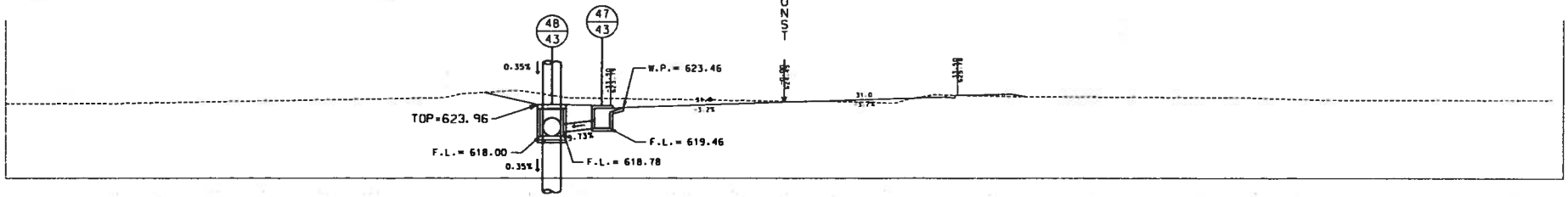
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 85A(600)	2012	48

45 - REQ'D 1 - INLET, TYPE S1 OR S3 (1 WING)
45 - 46 REQ'D 6' - 18" STORM SEWER PIPE (CL. 3 R.C.)
46 - REQ'D 1 - JUNCTION BOX, TYPE 1
46 - REQ'D 2 - JUNCTION BOX UNITS, TYPE 1
46 - 48 REQ'D 139' - 42" STORM SEWER PIPE (CL. 3 R.C.)



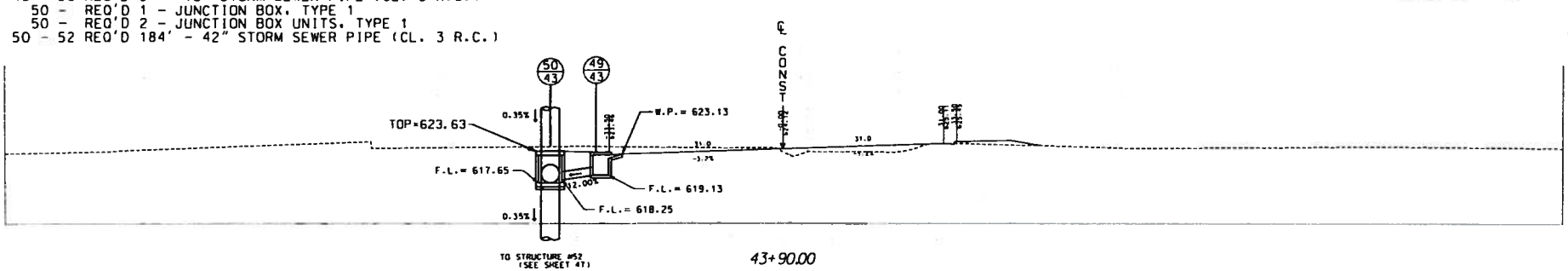
46+50.00

47 - REQ'D 1 - INLET, TYPE S1 OR S3 (1 WING)
47 - 48 REQ'D 6' - 18" STORM SEWER PIPE (CL. 3 R.C.)
48 - REQ'D 1 - JUNCTION BOX, TYPE 1
48 - REQ'D 2 - JUNCTION BOX UNITS, TYPE 1
48 - 50 REQ'D 100' - 42" STORM SEWER PIPE (CL. 3 R.C.)

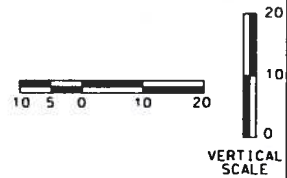


45+00.00

49 - REQ'D 1 - INLET, TYPE S1 OR S3 (2 WINGS)
49 - 50 REQ'D 6' - 18" STORM SEWER PIPE (CL. 3 R.C.)
50 - REQ'D 1 - JUNCTION BOX, TYPE 1
50 - REQ'D 2 - JUNCTION BOX UNITS, TYPE 1
50 - 52 REQ'D 184' - 42" STORM SEWER PIPE (CL. 3 R.C.)



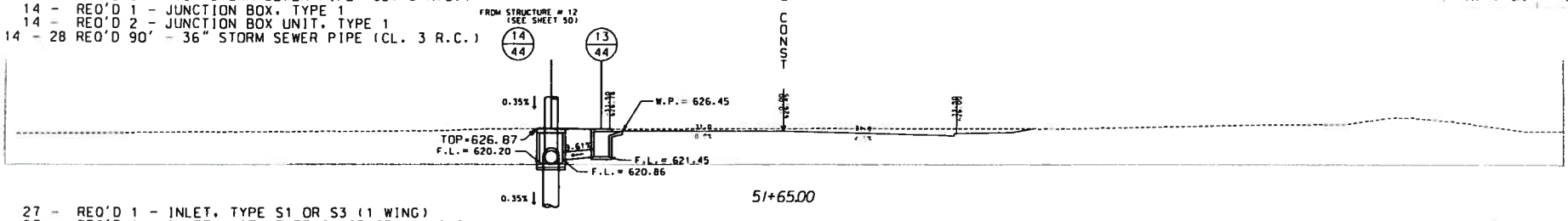
43+90.00



CHURCH STREET DRAINAGE CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPH/ 8540(600)	2012	49

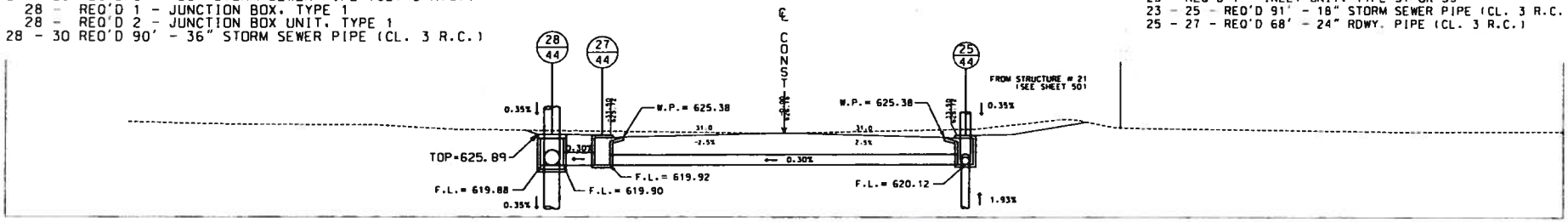
13 - REO'D 1 - INLET, TYPE S1 OR S3 (1 WING)
13 - REO'D 1 - INLET UNIT, TYPE S1 OR S3
13 - 14 REO'D 6' - 18" STORM SEWER PIPE (CL. 3 R.C.)
14 - REO'D 1 - JUNCTION BOX, TYPE 1
14 - REO'D 2 - JUNCTION BOX UNIT, TYPE 1
14 - 28 REO'D 90' - 36" STORM SEWER PIPE (CL. 3 R.C.)



51+65.00

27 - REO'D 1 - INLET, TYPE S1 OR S3 (1 WING)
27 - REO'D 1 - INLET UNIT, TYPE S1 OR S3 (1 WING)
27 - 28 REO'D 6' - 30" STORM SEWER PIPE (CL. 3 R.C.)
28 - REO'D 1 - JUNCTION BOX, TYPE 1
28 - REO'D 2 - JUNCTION BOX UNIT, TYPE 1
28 - 30 REO'D 90' - 36" STORM SEWER PIPE (CL. 3 R.C.)

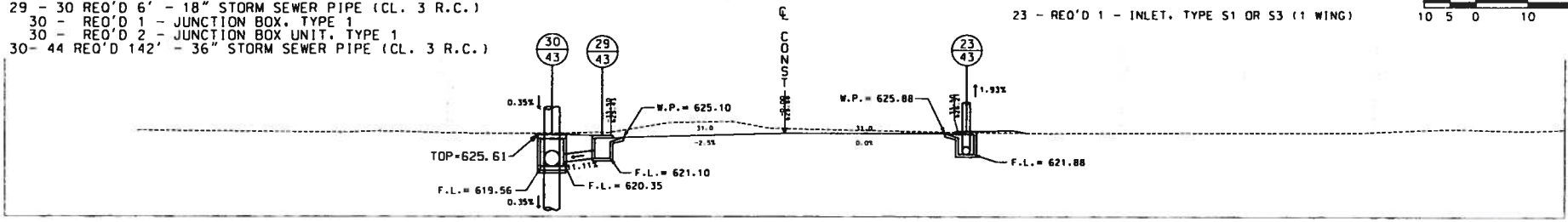
25 - REO'D 1 - INLET, TYPE S1 OR S3 (2 WINGS)
25 - REO'D 1 - INLET UNIT, TYPE S1 OR S3
23 - 25 - REO'D 91' - 18" STORM SEWER PIPE (CL. 3 R.C.)
25 - 27 - REO'D 68' - 24" RDWY. PIPE (CL. 3 R.C.)

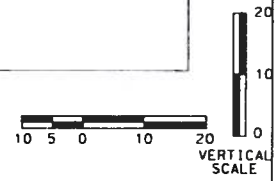


50+70.00

29 - REO'D 1 - INLET, TYPE S1 OR S3 (1 WING)
29 - 30 REO'D 6' - 18" STORM SEWER PIPE (CL. 3 R.C.)
30 - REO'D 1 - JUNCTION BOX, TYPE 1
30 - REO'D 2 - JUNCTION BOX UNIT, TYPE 1
30- 44 REO'D 142' - 36" STORM SEWER PIPE (CL. 3 R.C.)

23 - REO'D 1 - INLET, TYPE S1 OR S3 (1 WING)

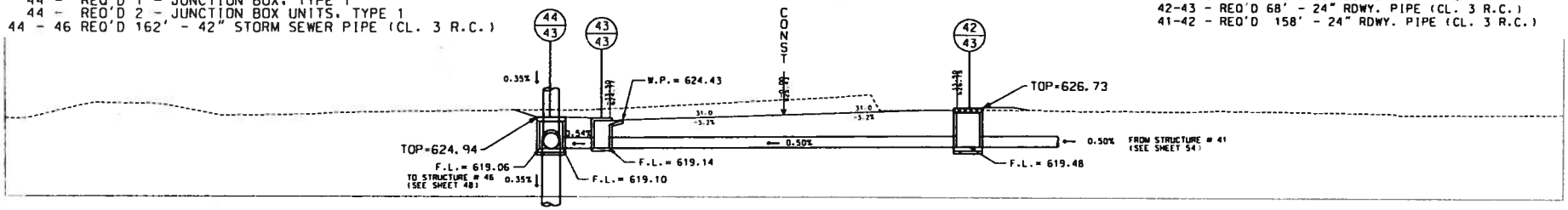




49+75.00

43 - REO'D 1 - INLET, TYPE S1 OR S3 (1 WING)
43 - REO'D 1 - INLET UNIT, TYPE S1 OR S3
43 - 44 REO'D 6' - 24" STORM SEWER PIPE (CL. 3 R.C.)
44 - REO'D 1 - JUNCTION BOX, TYPE 1
44 - REO'D 2 - JUNCTION BOX UNITS, TYPE 1
44 - 46 REO'D 162' - 42" STORM SEWER PIPE (CL. 3 R.C.)

42 - REO'D 1 - JUNCTION BOX, TYPE 1
42 - REO'D 2 - JUNCTION BOX UNITS, TYPE 1
42-43 - REO'D 68' - 24" RDWY. PIPE (CL. 3 R.C.)
41-42 - REO'D 158' - 24" RDWY. PIPE (CL. 3 R.C.)

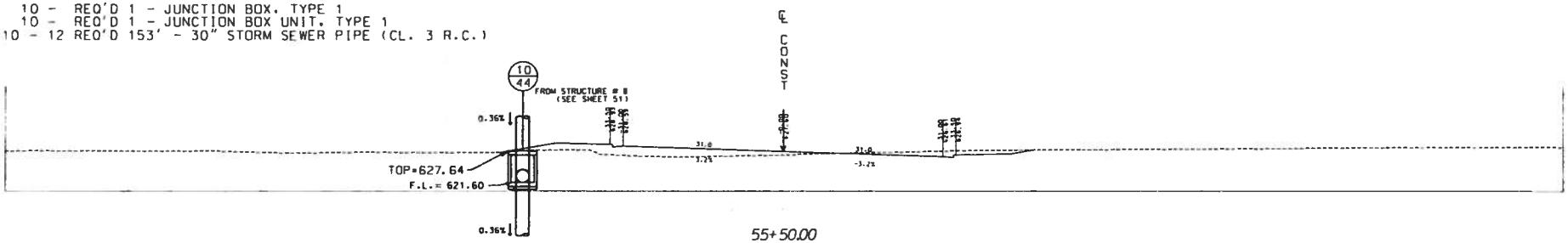


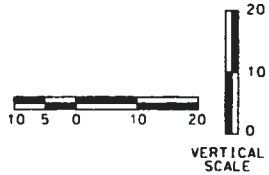
48+25.00

CHURCH STREET DRAINAGE CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(F60)	2012	50

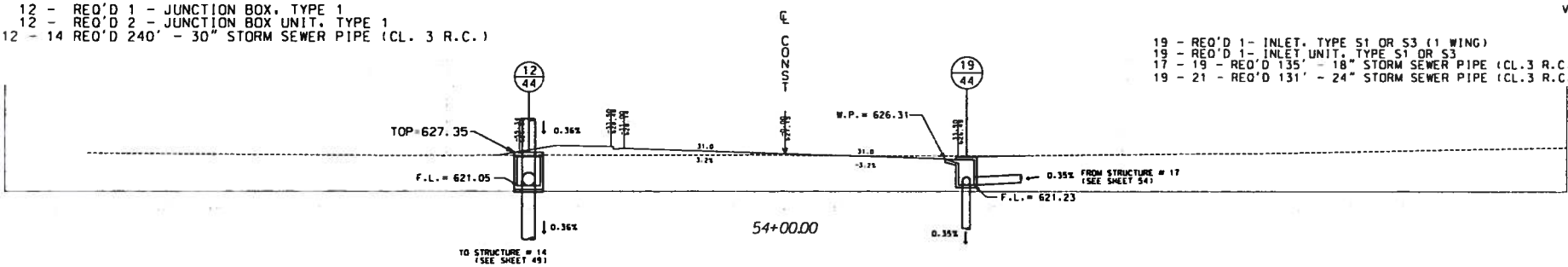
10 - REQ'D 1 - JUNCTION BOX, TYPE 1
10 - REQ'D 1 - JUNCTION BOX UNIT, TYPE 1
10 - 12 REQ'D 153' - 30" STORM SEWER PIPE (CL. 3 R.C.)



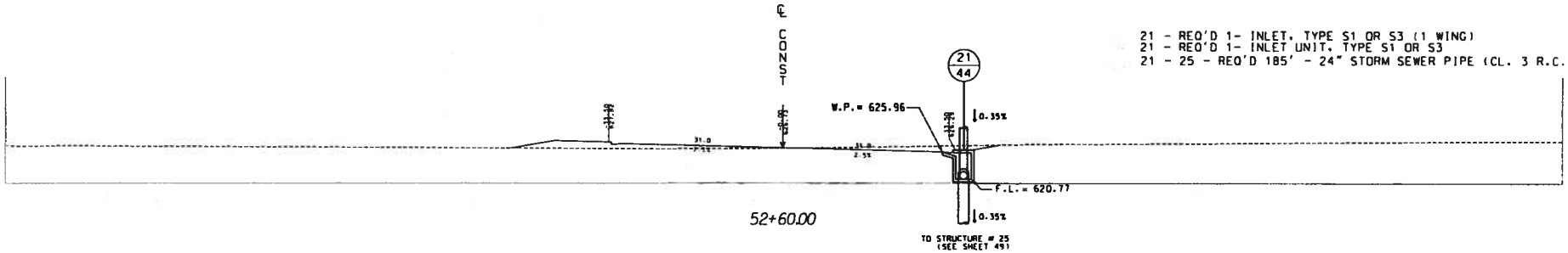


12 - REQ'D 1 - JUNCTION BOX, TYPE 1
12 - REQ'D 2 - JUNCTION BOX UNIT, TYPE 1
12 - 14 REQ'D 240' - 30" STORM SEWER PIPE (CL. 3 R.C.)

19 - REQ'D 1- INLET, TYPE S1 OR S3 (1 WING)
19 - REQ'D 1- INLET UNIT, TYPE S1 OR S3
17 - 19 - REQ'D 135' - 18" STORM SEWER PIPE (CL.3 R.C.)
19 - 21 - REQ'D 131' - 24" STORM SEWER PIPE (CL.3 R.C.)



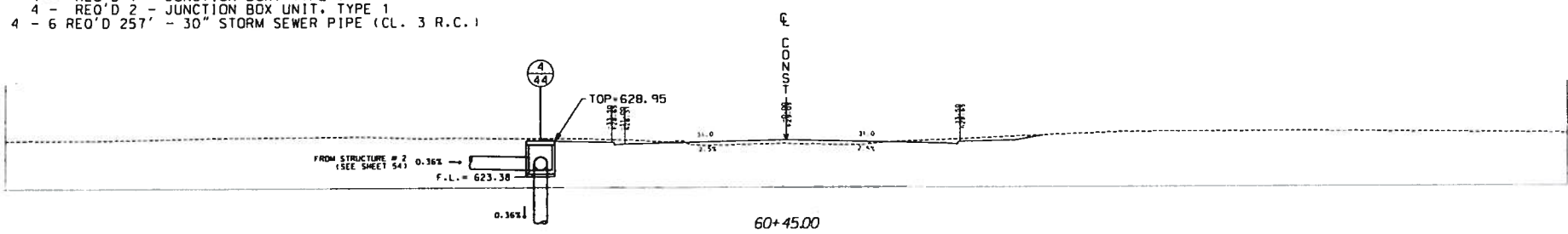
21 - REQ'D 1- INLET, TYPE S1 OR S3 (1 WING)
21 - REQ'D 1- INLET UNIT, TYPE S1 OR S3
21 - 25 - REQ'D 185' - 24" STORM SEWER PIPE (CL. 3 R.C.)



CHURCH STREET DRAINAGE CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 85-40(600)	2012	51

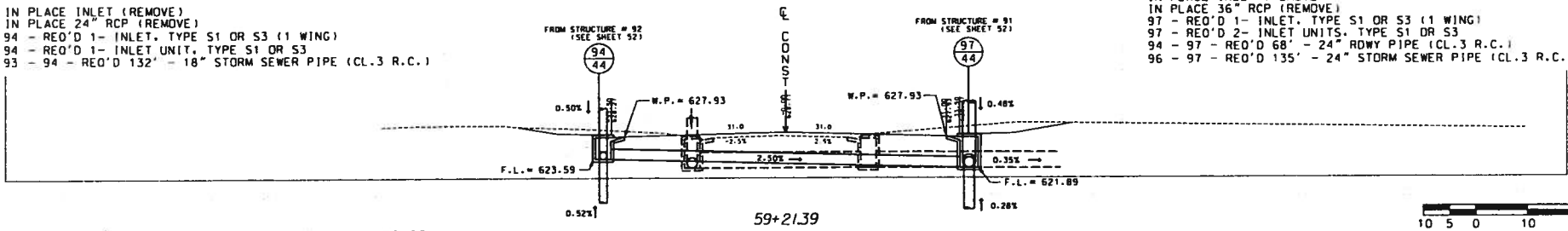
4 - REO'D 1 - JUNCTION BOX, TYPE 1
4 - REO'D 2 - JUNCTION BOX UNIT, TYPE 1
4 - 6 REO'D 257' - 30" STORM SEWER PIPE (CL. 3 R.C.)



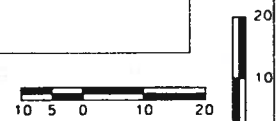
60+45.00

IN PLACE INLET (REMOVE)
IN PLACE 24" RCP (REMOVE)
94 - REO'D 1- INLET, TYPE S1 OR S3 (1 WING)
94 - REO'D 1- INLET UNIT, TYPE S1 OR S3
93 - 94 - REO'D 132' - 18" STORM SEWER PIPE (CL.3 R.C.)

IN PLACE INLET (REMOVE)
IN PLACE 36" RCP (REMOVE)
97 - REO'D 1- INLET, TYPE S1 OR S3 (1 WING)
97 - REO'D 2- INLET UNITS, TYPE S1 OR S3
94 - 97 - REO'D 68' - 24" RDWY PIPE (CL.3 R.C.)
96 - 97 - REO'D 135' - 24" STORM SEWER PIPE (CL.3 R.C.)

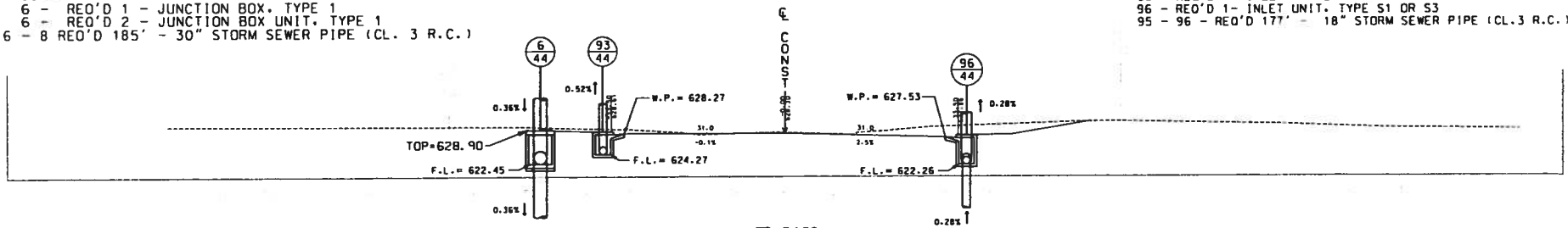


59+21.39



93 - REO'D 1 - INLET, TYPE S1 OR S3 (2 WINGS)
6 - REO'D 1 - JUNCTION BOX, TYPE 1
6 - REO'D 2 - JUNCTION BOX UNIT, TYPE 1
6 - 8 REO'D 185' - 30" STORM SEWER PIPE (CL. 3 R.C.)

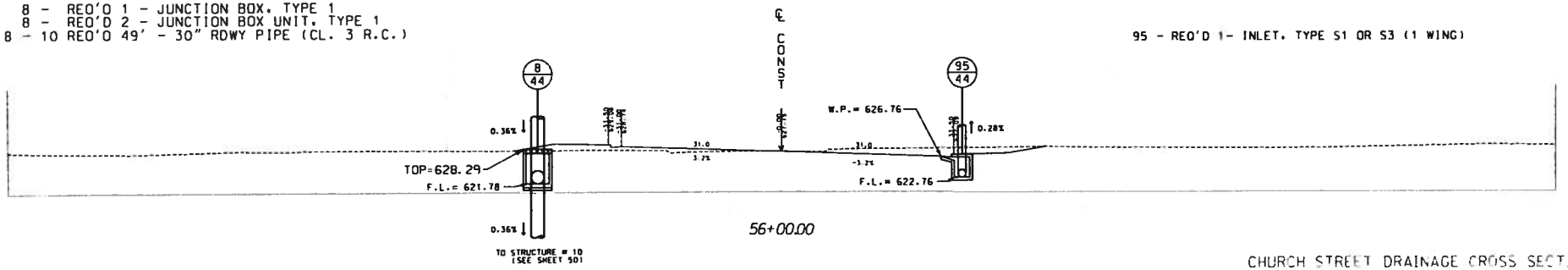
96 - REO'D 1- INLET, TYPE S1 OR S3 (1 WING)
96 - REO'D 1- INLET UNIT, TYPE S1 OR S3
95 - 96 - REO'D 177' - 18" STORM SEWER PIPE (CL.3 R.C.)



57+84.60

8 - REO'D 1 - JUNCTION BOX, TYPE 1
8 - REO'D 2 - JUNCTION BOX UNIT, TYPE 1
8 - 10 REO'D 49' - 30" RDWY PIPE (CL. 3 R.C.)

95 - REO'D 1- INLET, TYPE S1 OR S3 (1 WING)



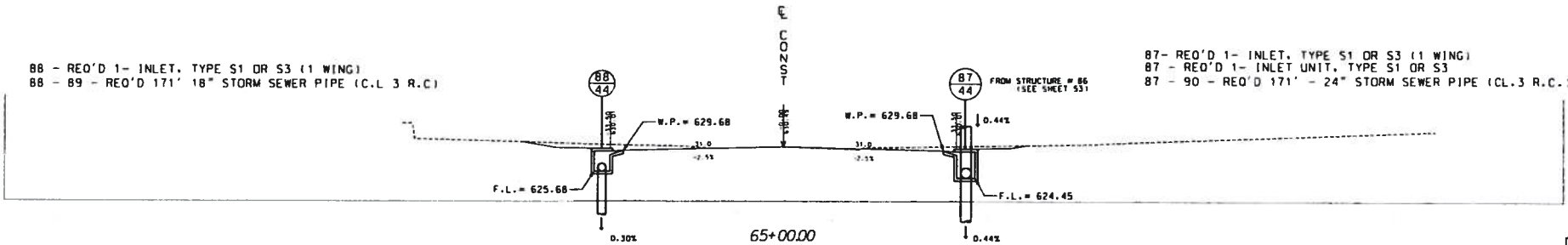
56+00.00

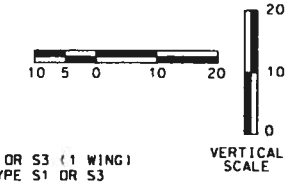
CHURCH STREET DRAINAGE CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(000)	2012	52

88 - REQ'D 1- INLET, TYPE S1 OR S3 (1 WING)
88 - 89 - REQ'D 171' 18" STORM SEWER PIPE (C.L 3 R.C)

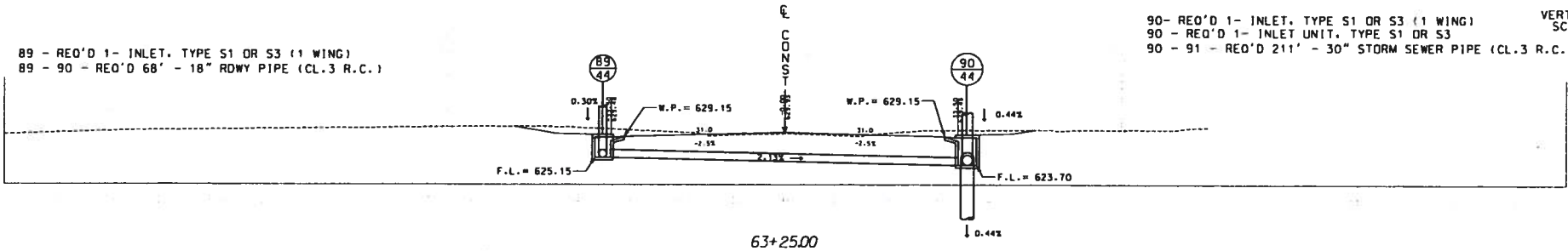
87- REQ'D 1- INLET, TYPE S1 OR S3 (1 WING)
87 - REQ'D 1- INLET UNIT, TYPE S1 OR S3
87 - 90 - REQ'D 171' - 24" STORM SEWER PIPE (CL.3 R.C.)





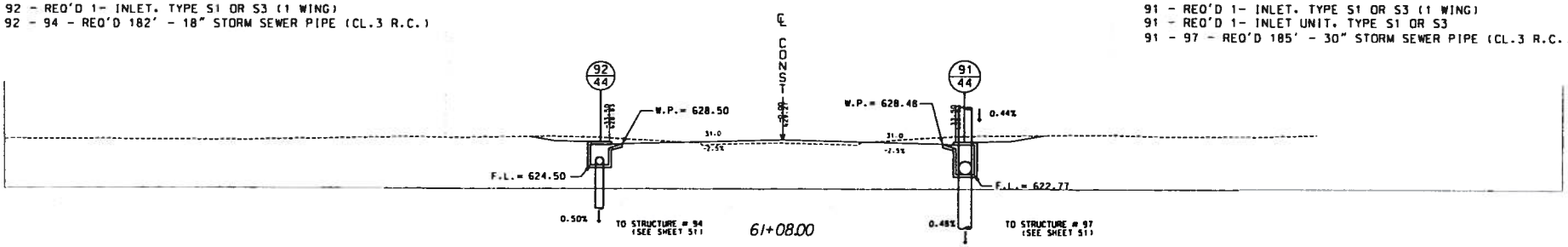
89 - REQ'D 1- INLET, TYPE S1 OR S3 (1 WING)
89 - 90 - REQ'D 68' - 18" RDWY PIPE (CL.3 R.C.)

90- REQ'D 1- INLET, TYPE S1 OR S3 (1 WING)
90 - REQ'D 1- INLET UNIT, TYPE S1 OR S3
90 - 91 - REQ'D 211' - 30" STORM SEWER PIPE (CL.3 R.C.)



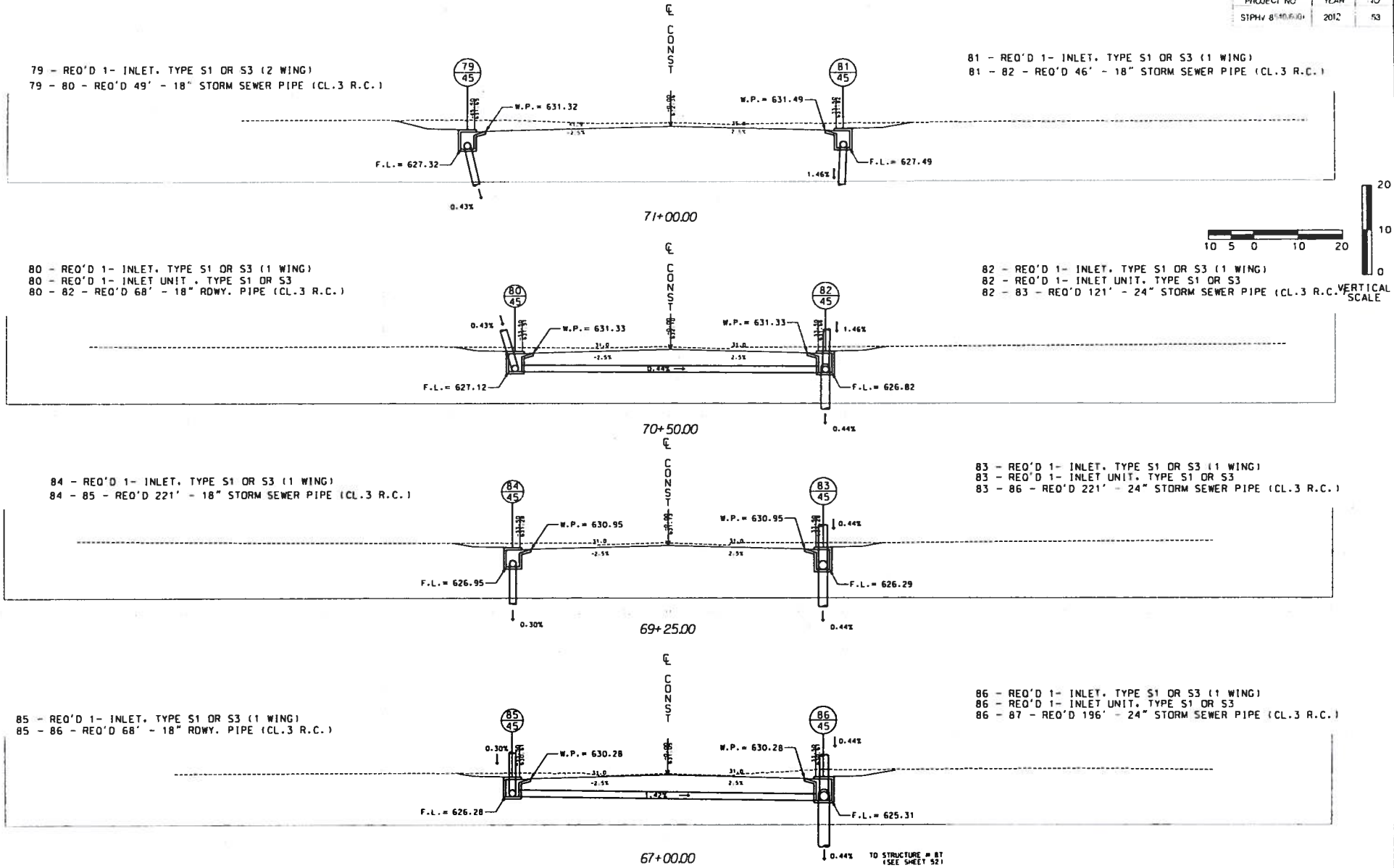
92 - REQ'D 1- INLET, TYPE S1 OR S3 (1 WING)
92 - 94 - REQ'D 182' - 18" STORM SEWER PIPE (CL.3 R.C.)

91 - REQ'D 1- INLET, TYPE S1 OR S3 (1 WING)
91 - REQ'D 1- INLET UNIT, TYPE S1 OR S3
91 - 97 - REQ'D 185' - 30" STORM SEWER PIPE (CL.3 R.C.)



CHURCH STREET DRAINAGE CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8[illegible]	2012	53

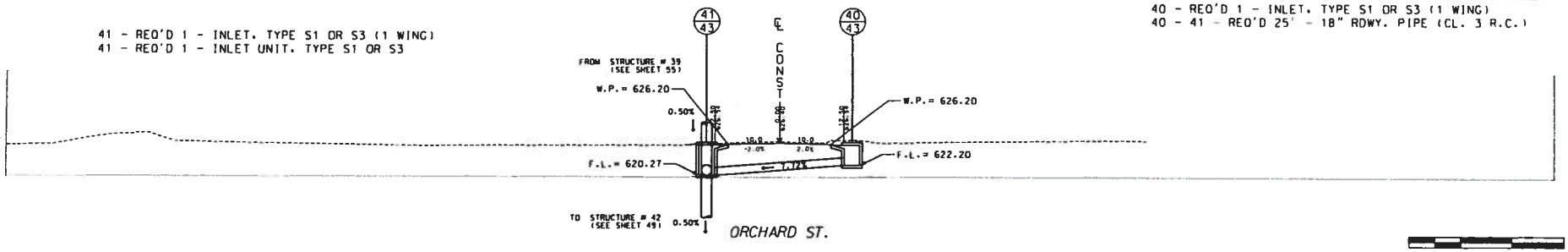


CHURCH STREET DRAINAGE CROSS SECTIONS

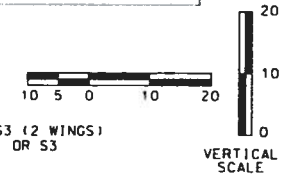
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(600)	2012	54

41 - REQ'D 1 - INLET, TYPE S1 OR S3 (1 WING)
41 - REQ'D 1 - INLET UNIT, TYPE S1 OR S3

40 - REQ'D 1 - INLET, TYPE S1 OR S3 (1 WING)
40 - 41 - REQ'D 25' - 18" RDWY. PIPE (CL. 3 R.C.)

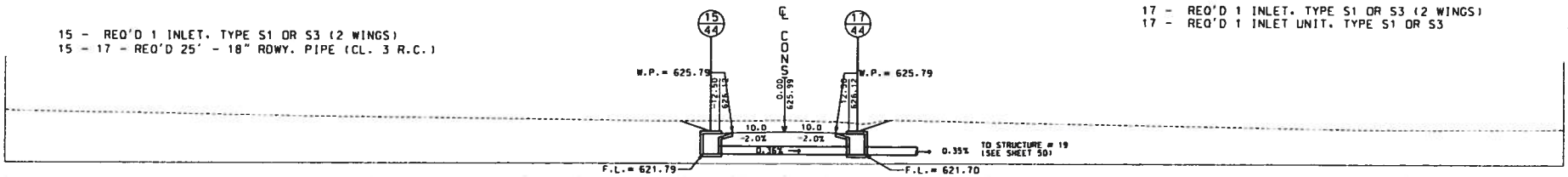


ORCHARD ST.
3+00.00



15 - REQ'D 1 INLET, TYPE S1 OR S3 (2 WINGS)
15 - 17 - REQ'D 25' - 18" RDWY. PIPE (CL. 3 R.C.)

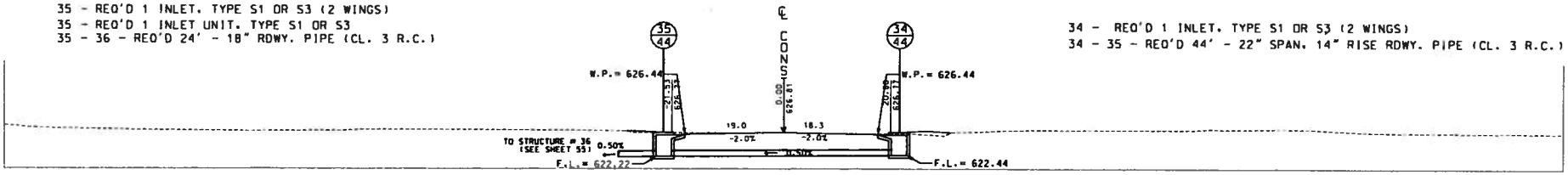
17 - REQ'D 1 INLET, TYPE S1 OR S3 (2 WINGS)
17 - REQ'D 1 INLET UNIT, TYPE S1 OR S3



PEARL AVE.
3+71.53

35 - REQ'D 1 INLET, TYPE S1 OR S3 (2 WINGS)
35 - REQ'D 1 INLET UNIT, TYPE S1 OR S3
35 - 36 - REQ'D 24' - 18" RDWY. PIPE (CL. 3 R.C.)

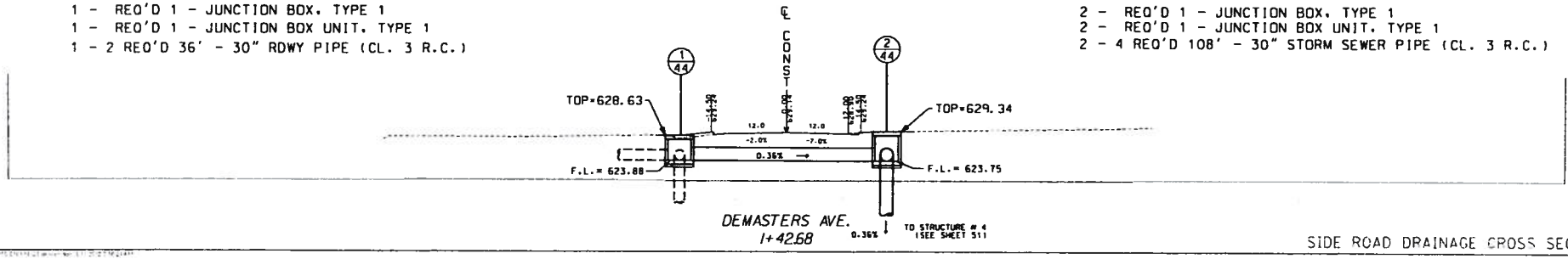
34 - REQ'D 1 INLET, TYPE S1 OR S3 (2 WINGS)
34 - 35 - REQ'D 44' - 22" SPAN, 14" RISE RDWY. PIPE (CL. 3 R.C.)



FREDERICK AVE.
1+23.96

1 - REQ'D 1 - JUNCTION BOX, TYPE 1
1 - REQ'D 1 - JUNCTION BOX UNIT, TYPE 1
1 - 2 REQ'D 36' - 30" RDWY PIPE (CL. 3 R.C.)

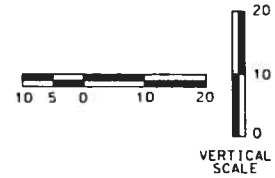
2 - REQ'D 1 - JUNCTION BOX, TYPE 1
2 - REQ'D 1 - JUNCTION BOX UNIT, TYPE 1
2 - 4 REQ'D 108' - 30" STORM SEWER PIPE (CL. 3 R.C.)



DEMASTERS AVE.
1+42.68

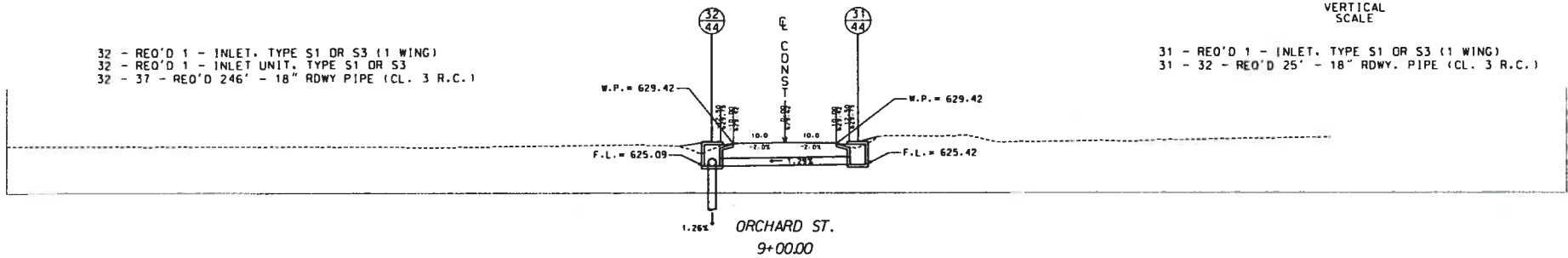
SIDE ROAD DRAINAGE CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SIPHV 8540(600)	2012	56



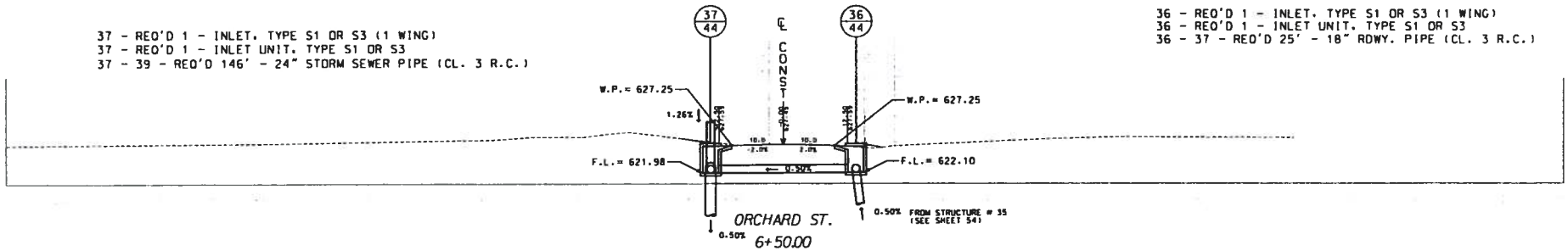
32 - REQ'D 1 - INLET, TYPE S1 OR S3 (1 WING)
32 - REQ'D 1 - INLET UNIT, TYPE S1 OR S3
32 - 37 - REQ'D 246' - 18" RDWY PIPE (CL. 3 R.C.)

31 - REQ'D 1 - INLET, TYPE S1 OR S3 (1 WING)
31 - 32 - REQ'D 25' - 18" RDWY. PIPE (CL. 3 R.C.)



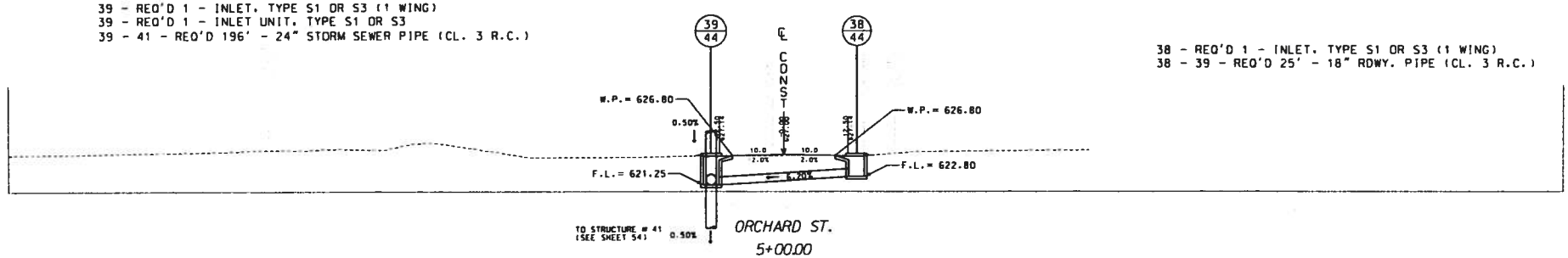
37 - REQ'D 1 - INLET, TYPE S1 OR S3 (1 WING)
37 - REQ'D 1 - INLET UNIT, TYPE S1 OR S3
37 - 39 - REQ'D 146' - 24" STORM SEWER PIPE (CL. 3 R.C.)

36 - REQ'D 1 - INLET, TYPE S1 OR S3 (1 WING)
36 - REQ'D 1 - INLET UNIT, TYPE S1 OR S3
36 - 37 - REQ'D 25' - 18" RDWY. PIPE (CL. 3 R.C.)



39 - REQ'D 1 - INLET, TYPE S1 OR S3 (1 WING)
39 - REQ'D 1 - INLET UNIT, TYPE S1 OR S3
39 - 41 - REQ'D 196' - 24" STORM SEWER PIPE (CL. 3 R.C.)

38 - REQ'D 1 - INLET, TYPE S1 OR S3 (1 WING)
38 - 39 - REQ'D 25' - 18" RDWY. PIPE (CL. 3 R.C.)



SIDE ROAD DRAINAGE CROSS SECTIONS

PROJECT NO.	YEAR	NO
STPHV 85-401(600)	2012	57

SOIL BORING LOGS

OMI, Inc.
5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO. 3581 JOB Church Street - Phase II LOG OF BORING B-1
JOB LOCATION Huntsville, AL BORING LOCATION Sta 54 + 40, L45

DESCRIPTION OF MATERIAL			
12" TOPSOIL	12	13	2.75
SANDY SILTY CLAY, 5% coarse to fine gravel-sized chert, 40% fine to coarse sand, 55% fines, low plasticity, tanish red, hard, moist, residuum, CL A6	33	14	3.75
SANDY SILTY CLAY, 5% gravel-sized chert, 35% fine sand, 60% fines, low plasticity, black, red, hard, moist, residuum, CL A6	100+	13	3.5
BORING TERMINATED AT 5-FT			

COMPLETION DEPTH: 5 DEPTH TO WATER INITIAL DRY OMI,Inc.
DATE 7-5-05 DEPTH TO WATER FINAL

OMI, Inc.
5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO. 3581 JOB Church Street - Phase II LOG OF BORING B-2
JOB LOCATION Huntsville, AL BORING LOCATION Sta 54 + 40, R15

DESCRIPTION OF MATERIAL			
6" ASPHALT			
6" GRAVEL BASE			
SILTY CLAYEY SAND, 10% fine to coarse gravel-sized chert, 50% fine to coarse sand, 40% fines, low plasticity, light tan & orange, very stiff, moist, residuum, SC A-4	16	18	1.5
SILTY CLAYEY SAND, 10% coarse to fine gravel, 75% fine to coarse sand, 15% fines, low plasticity, yellow, black, red, stiff, moist, residuum, SC A-2-6	9	19	2.25
BORING TERMINATED AT 5-FT			

COMPLETION DEPTH: 5 DEPTH TO WATER INITIAL DRY OMI,Inc.
DATE 7-5-05 DEPTH TO WATER FINAL

PROJECT NO	YEAR	NO
SIPHV 8540(600)	2012	57A

SOIL BORING LOGS

OMI Inc.
5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 3581 JOB: Church Street - Phase II LOG OF BORING: B-3
JOB LOCATION: Huntsville, AL BORING LOCATION: Sta 48 + 50 CL

DESCRIPTION OF MATERIAL			
12" TOPSOIL	15	13	3.0
SILTY CLAYEY SAND, 25% fine to coarse gravel-sized chert, 60% fine to coarse sand, 15% fines, low plasticity, tan, yellow, black, very stiff, moist, residuum, SC A-2-6	20	16	3.25
	25	16	3.5
BORING TERMINATED AT 5-FT Bulk sample collected 1' to 4' Proctor, Atterberg, Wash 200 and Resilient Modulus Tests run.			

COMPLETION DEPTH: 5 DEPTH TO WATER INITIAL: DRY OMI,Inc
DATE: 7-5-05 DEPTH TO WATER FINAL:

OMI, Inc.
5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 3581 JOB: Church Street - Phase II LOG OF BORING: B-4
JOB LOCATION: Huntsville, AL BORING LOCATION: Sta 51 + 00 CL

DESCRIPTION OF MATERIAL			
12" TOPSOIL	12	17	2.0
SANDY SILTY CLAY, 5% fine to coarse gravel, 40% fine to coarse sand, 55% fines, low plasticity, black, yellow, brownish tan, very stiff, moist, residuum, CL A-6	17	15	3.5
SILTY SAND, 15% fine to coarse gravel-sized chert, 65% fine to coarse sand, 20% fines, low plasticity, red, tan, black, gray, hard, moist, SC A-2-6	100+	16	2.75
BORING TERMINATED AT 5-FT			

COMPLETION DEPTH: 5 DEPTH TO WATER INITIAL: DRY OMI,Inc.
DATE: 7-5-05 DEPTH TO WATER FINAL:

PROJECT NO	YEAR	NO
STPHV 8510(600)	2012	578

SOIL BORING LOGS

OMI, Inc.
5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO: 3581 JOB: Church Street - Phase II LOG OF BORING: B-5
JOB LOCATION: Huntsville, AL BORING LOCATION: Sta 55 + 00 CL

DESCRIPTION OF MATERIAL			
12" TOPSOIL	18	14	3.5
SILTY CLAYEY SAND with traces of gravel, 65% fine sand, 35% fines, low plasticity, grayish tan, black, very stiff, moist, residuum, SC A-4	100+	13	3.5
	100+	15	3.75
BORING TERMINATED AT 5-FT			

COMPLETION DEPTH: 5 DEPTH TO WATER INITIAL: DRY OMI,Inc
DATE: 7-5-05 DEPTH TO WATER FINAL:

OMI, Inc.
5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO: 3581 JOB: Church Street - Phase II LOG OF BORING: B-6
JOB LOCATION: Huntsville, AL BORING LOCATION: Sta 57 + 00 CL

DESCRIPTION OF MATERIAL			
5" ASPHALT			
5" BASE			
SANDY SILTY CLAY, 30% fine sand, 70% fines, medium plasticity, gray & tan, firm to stiff, moist, residuum, CL A-6	8	20	3.25
	10	18	3.0
BORING TERMINATED AT 5-FT			

COMPLETION DEPTH: 5 DEPTH TO WATER INITIAL: DRY OMI,Inc
DATE: 7-5-05 DEPTH TO WATER FINAL:

PROJECT NO	YEAR	NO
STPHV 8540(600)	2012	57C

SOIL BORING LOGS

OMI, Inc.
5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO 3581 JOB Church Street - Phase II LOG OF BORING B 7

JOB LOCATION Huntsville, AL BORING LOCATION Sta 57 + 00, R45'

DESCRIPTION OF MATERIAL			
3" TOPSOIL			
SANDY SILTY CLAY, 30% fine sand, 70% fines, medium plasticity, gray & tan, very stiff, moist, residuum, CL A-6	16	17	4.0
SANDY SILTY CLAY with traces of gravel, 30% fine to coarse sand, 10% oxides, 60% fines, medium plasticity, red, gray, black, stiff, moist, residuum CL A-6	12	18	3.0
SANDY SILTY CLAY, 10% fine gravel, 30% fine to coarse sand, 60% fines, medium plasticity, reddish tan, black, gray, stiff, moist, residuum, CL A-6	12	21	3.25
BORING TERMINATED AT 5-FT			
Bulk sample collected 0.5 to 3'. Proctor, Atterberg limits, Wash 200 and Resilient Modulus tests performed.			

COMPLETION DEPTH 5 DEPTH TO WATER INITIAL DRY OMI, Inc.
DATE 7-5-05 DEPTH TO WATER FINAL

OMI, Inc.
5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO 3581 JOB Church Street - Phase II LOG OF BORING B 8

JOB LOCATION Huntsville, AL BORING LOCATION Sta 60 + 00 L20

DESCRIPTION OF MATERIAL			
6" CONCRETE			
4" LOOSE GRAVEL			
SANDY SILTY CLAY with traces of gravel, 40% fine to coarse sand, 60% fines, low plasticity, black, reddish tan, gray, firm to very stiff, moist, residuum, CL A-6	8	21	3.5
	15	21	3.5
BORING TERMINATED AT 5-FT			

COMPLETION DEPTH 5 DEPTH TO WATER INITIAL DRY OMI Inc.
DATE 7-5-05 DEPTH TO WATER FINAL

PROJECT NO	YEAR	NO
STPHV 8540(600)	2012	57 D

SOIL BORING LOGS

OMI, Inc.
5151 Research Drive N.W. Huntsville, AL 35805

JOB NO: 3581 JOB: Church Street - Phase II LOG OF BORING: B-9
JOB LOCATION: Huntsville, AL BORING LOCATION: Sta 60+00 CL

DESCRIPTION OF MATERIAL			
5" ASPHALT			
4" GRAVEL			
SANDY SILTY CLAY, 25% fine to coarse sand, 75% fines, medium plasticity, reddish tan, gray, stiff, moist, residuum, CL A-6	11	20	3.5
SANDY SILTY CLAY, 5% gravel, 30% fine to coarse sand, 65% fines, low plasticity, reddish tan & gray, stiff, moist, residuum, CL A-6	12	19	2.25
BORING TERMINATED AT 5-FT			

COMPLETION DEPTH: 5 DEPTH TO WATER INITIAL: DRY OMI, Inc.
DATE: 7 5 05 DEPTH TO WATER FINAL:

OMI, Inc.
5151 Research Drive N.W. Huntsville, AL 35805

JOB NO: 3581 JOB: Church Street - Phase II LOG OF BORING: B-10
JOB LOCATION: Huntsville, AL BORING LOCATION: Sta 64+00 CL

DESCRIPTION OF MATERIAL			
8" ASPHALT			
6" BASE			
SANDY SILTY CLAY, 20% fine to coarse sand, 80% fines, medium plasticity, gray, stiff, moist, residuum, CL A-6	12	18	1.5
SILTY CLAYEY GRAVEL, 45% fine to coarse gravel, 5% oxides, 35% fine to coarse sand, 15% fines, low plasticity, black, yellow, tan, hard, moist, residuum, GC A-2-6	30	19	4.0
BORING TERMINATED AT 5-FT			

COMPLETION DEPTH: 5 DEPTH TO WATER INITIAL: DRY OMI Inc.
DATE: 7-6-05 DEPTH TO WATER FINAL:

PROJECT NO.	YEAR	NO.
STPHV 8540(600)	2012	57E

SOIL BORING LOGS

OMI, Inc.

5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO. 3581 JOB Church Street - Phase II LOG OF BORING B-11

JOB LOCATION Huntsville, AL BORING LOCATION Sta 64 + 00 R15'

	DESCRIPTION OF MATERIAL			
	SANDY SILTY CLAY, 40% fine sand, 60% fines, low plasticity, gray, very stiff, moist, residuum, CL A-6	18	10	4.0
2.5	SANDY SILTY CLAY, 35% fine sand, 65% fines, medium plasticity, gray & tan, stiff to very stiff, moist, residuum, CL A-6	14	18	4.0
		14	21	3.5
5	BORING TERMINATED AT 5-FT			
7.5				
10				
12.5				
15				
17.5				
20				

COMPLETION DEPTH 5 DEPTH TO WATER INITIAL DRY OMI Inc

DATE 7-5-05 DEPTH TO WATER FINAL

OMI, Inc.

5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO. 3581 JOB Church Street - Phase II LOG OF BORING B-12

JOB LOCATION Huntsville, AL BORING LOCATION Sta 68 + 00 L15

	DESCRIPTION OF MATERIAL			
	LOOSE GRAVEL FROM DRIVEWAY, GP			
2.5	SANDY SILTY CLAY, 5% fine gravel, 10% oxides, 20% fine to coarse sand, 65% fines, medium plasticity, tan, black & light gray, stiff, moist, residuum, CL A-6	12	18	3.5
	SILTY CLAYEY SAND, 25% fine to coarse gravel, 15% oxides, 35% fine to coarse sand, 25% fines, low plasticity, gray, black & tan, hard, moist, residuum, SC A-26	100+	17	4.0
5	BORING TERMINATED AT 5-FT			
7.5	Bulk sample collected 1' to 3' Proctor, Atterberg limits, Wash 200 and Resilient Modulus tests performed.			
10				
12.5				
15				
17.5				
20				

COMPLETION DEPTH 5 DEPTH TO WATER INITIAL DRY OMI Inc

DATE 7-1-05 DEPTH TO WATER FINAL

PROJECT NO	YEAR	NO
STPHV 8540(600)	2012	57F

SOIL BORING LOGS

OMI, Inc.
5151 Research Drive, N.W. Huntsville, Al 35805

JOB NO. 3581 JOB Church Street - Phase II LOG OF BORING B-13
JOB LOCATION Huntsville, Al BORING LOCATION Sta 68 + 00 CL

DESCRIPTION OF MATERIAL			
4" ASPHALT			
5" BASE			
SANDY SILTY CLAY with traces of gravel-sized chert, 20% fine to coarse sand, 80% fines, low plasticity, gray & tan, firm, moist, residuum, CL A-6	8	22	1.75
SILTY CLAYEY SAND, 15% fine to coarse gravel, 10% oxides, 30% fine to coarse sand, 45% fines, medium plasticity, gray, black, orange, very stiff, moist, residuum, SC A-2-6	18	22	4.0
BORING TERMINATED AT 5-FT			

COMPLETION DEPTH: 5 DEPTH TO WATER INITIAL: DRY OMI Inc
DATE: 7-1-05 DEPTH TO WATER FINAL:

OMI, Inc.
5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO. 3581 JOB Church Street - Phase II LOG OF BORING B-14
JOB LOCATION Huntsville, AL BORING LOCATION Sta 71 + 50 L 12'

DESCRIPTION OF MATERIAL		
3" ASPHALT		
12" GRAVEL		
SILTY SANDY CLAY, 20% fine sand, 80% fines, low plasticity, gray & tan, firm, moist, alluvium, CL	5	.25
SANDY SILTY CLAY, 30% fine sand, 70% fines, low plasticity, orangish tan & light gray, very stiff, moist, alluvium, CL	20	2.5
	20	3.0
SANDY SILTY CLAY with traces of fine gravel, 10% fine gravel, 25% fine to medium sand, 65% fines, low plasticity, reddish tan & gray, very stiff to hard, moist, residuum, CL	30	3.0
	24	2.5
BORING TERMINATED @ 15-FT		

COMPLETION DEPTH: 15 DEPTH TO WATER INITIAL: DRY OMI Inc.
DATE: 9-12-05 DEPTH TO WATER FINAL

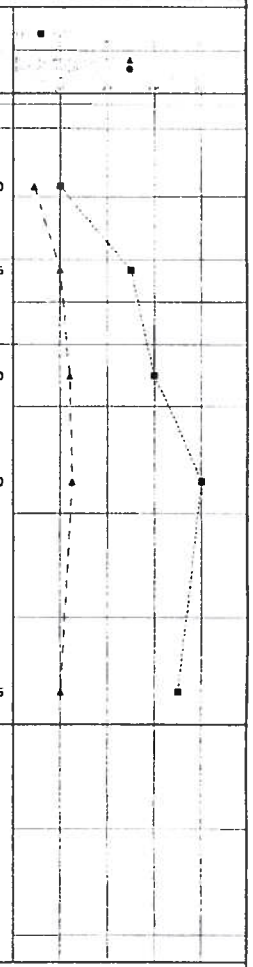
PROJECT NO.	YEAR	NO.
STPHV 8540(600)	2012	57G

SOIL BORING LOGS

OMI, Inc.
5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO. 3581 JOB Church Street - Phase II LOG OF BORING B-15
JOB LOCATION Huntsville, AL BORING LOCATION Sta 71 + 48 R30'

DESCRIPTION OF MATERIAL		
3" ASPHALT 10" GRAVEL		
SANDY SILTY CLAY with oxide nodules, 20% fine sand, 80% fines, low plasticity, gray with tan, firm to stiff, moist, alluvium, CL	9	1.0
SANDY SILTY CLAY, 30% fine sand, 70% fines, low plasticity, orangish tan & light gray, very stiff, moist, alluvium, CL	20	2.5
SILTY CLAY with chert, 20% gravel-sized chert, 80% fines, high plasticity, orange & gray, very stiff, moist, residuum, CH	24	3.0
	25	4.0
	20	3.5
BORING TERMINATED @ 15-FT		

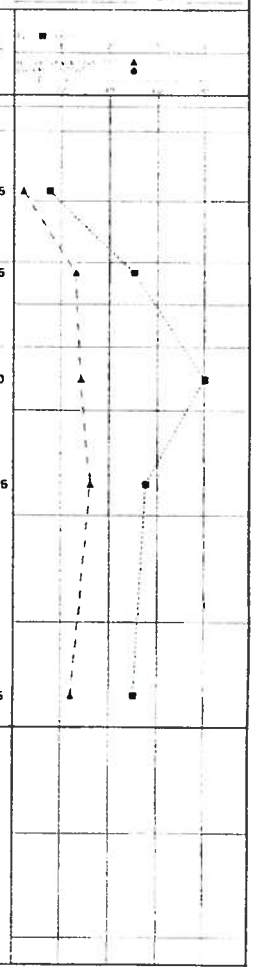


COMPLETION DEPTH 15 DEPTH TO WATER INITIAL DRY OMI,Inc
DATE 9-12-05 DEPTH TO WATER FINAL

OMI, Inc.
5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO. 3581 JOB Church Street - Phase II LOG OF BORING B-16
JOB LOCATION Huntsville, AL BORING LOCATION Sta 72 - 25 L25

DESCRIPTION OF MATERIAL		
3" ASPHALT 10" GRAVEL		
SANDY SILTY CLAY, 20% fine sand, 80% fines, low plasticity, blue gray, gas odor, soft, moist, alluvium, CL	4	.75
SANDY SILTY CLAY, 30% fine sand, 70% fines, low plasticity, orangish tan & light gray, very stiff, moist, alluivum, CL	26	2.5
SILTY CLAY with chert, 20% gravel-sized chert, 80% fines, high plasticity, orange & gray, very stiff to hard, moist, residuum, CH	28	4.0
	32	2.75
	24	2.5
BORING TERMINATED @ 15-FT		



COMPLETION DEPTH 15 DEPTH TO WATER INITIAL DRY OMI,Inc.
DATE 9-12-05 DEPTH TO WATER FINAL

SOIL BORING LOGS

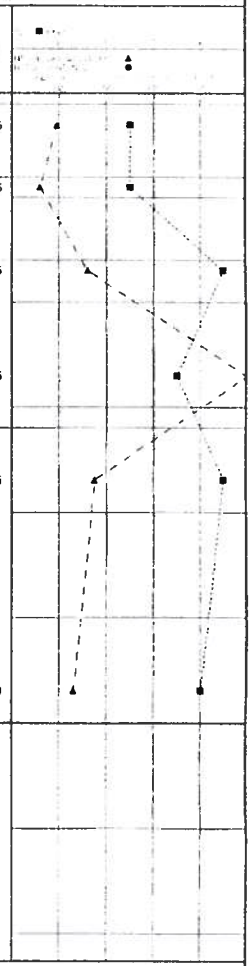
OMI, Inc.

5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 3581 JOB: Church Street - Phase II LOG OF BORING: B-17

JOB LOCATION: Huntsville, AL BORING LOCATION: Sta 72 + 25 R25

DESCRIPTION OF MATERIAL			
3" GRAVEL			
SANDY SILTY CLAY, 20% fine sand, 80% fines, low plasticity, blue gray, stiff, moist, alluvium, CL	19		2.5
SANDY SILTY CLAY, 25% fine sand, 75% fines, low plasticity, orangish tan & gray, stiff, moist, alluvium, CL	12		2.5
SANDY SILTY CLAY with chert & oxide nodules, 30% gravel-sized chert, 20% fine to coarse sand, 50% fines, low plasticity, brown, black & tan, hard, moist, residuum, CL	32		4.5
	100+		3.5
SILTY CLAY with chert, 20% gravel-sized chert, 80% fines, high plasticity, orange & gray, very stiff, moist, residuum, CH	35		4.5
	26		4.0
BORING TERMINATED @ 15-FT			

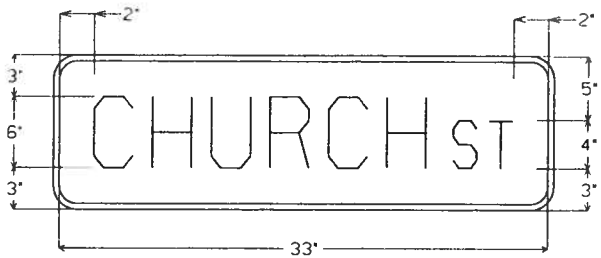


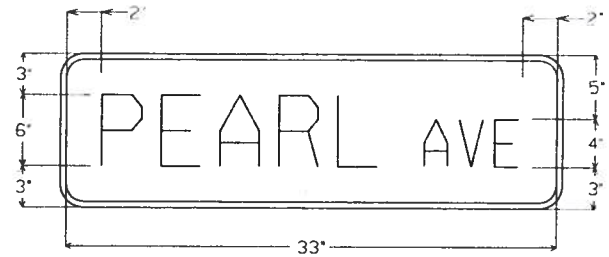
COMPLETION DEPTH: 15 DEPTH TO WATER INITIAL: DRY OMI,Inc.

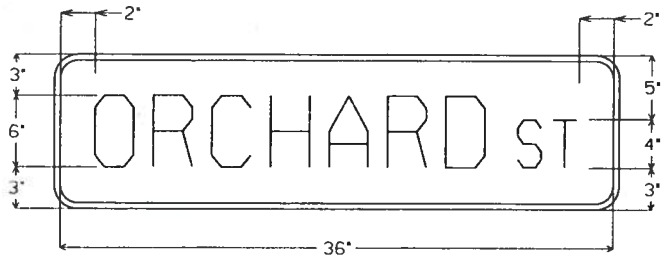
DATE 9.12.05 DEPTH TO WATER FINAL:

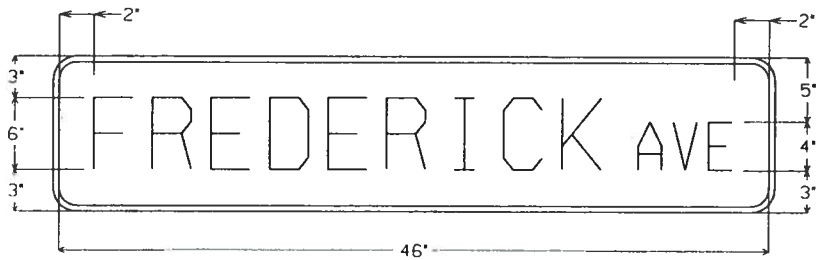
PROJECT DETAIL FOR STREET NAME SIGNS

PROJECT No. STPHV-8540(600) MADISON COUNTY









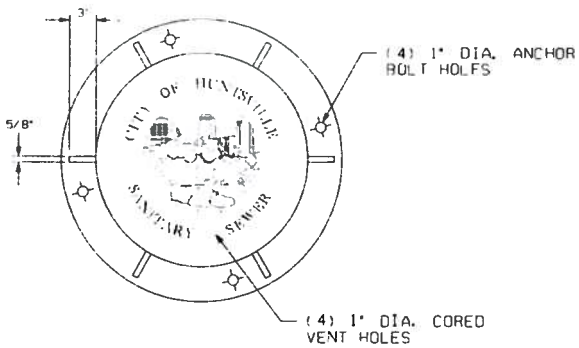
SIGN SHALL BE GREEN IN COLOR
SIGN LEGEND AND BORDER SHALL BE WHITE IN COLOR
SEE STD DWG SHS-18 FOR DETAILS

REVISIONS	MADISON COUNTY CHURCH STREET IMPROVEMENTS SPECIAL PROJECT DETAIL JOHNSON & ASSOCIATES, INC.
NOT TO SCALE	DATE: PROJECT No. STPHV-8540(600) SHEET OF

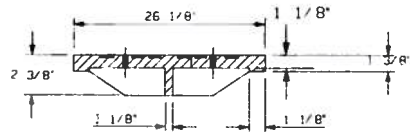
PROJECT NO	YEAR	NO
STPHV-8540(600)	2012	60

PROJECT DETAIL FOR RING AND COVER

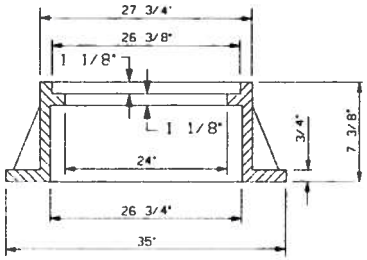
PROJECT No. STPHV-8540(600) MADISON COUNTY



COVER AND FRAME PLAN



COVER SECTION



FRAME SECTION

NOTE: VULCAN FOUNDRY INC. V-1355 FRAME AND COVER OR APPROVED EQUAL.

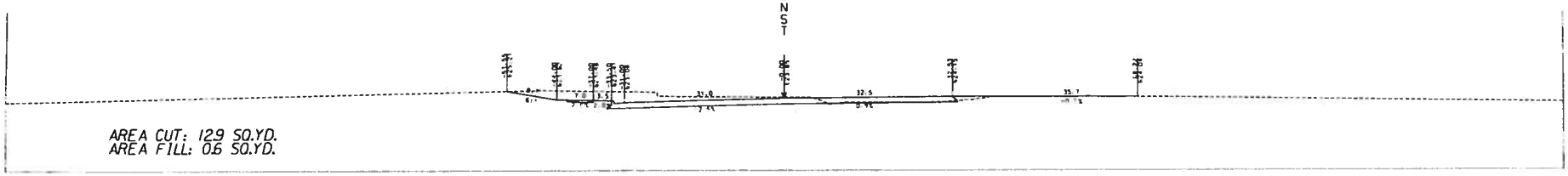
NOTE: BUTYL SEALANT SHALL BE USED TO SEAL FRAME TO MH AS DESCRIBED IN C.O.H. SPECIFICATIONS.

SANITARY SEWER MANHOLE FRAME AND COVER DETAIL

REF: CITY OF HUNTSVILLE, DESIGN AND ACCEPTANCE MANUAL, NOV. 2000
NOT TO SCALE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO.
STPHV 8540(600)	2012	63

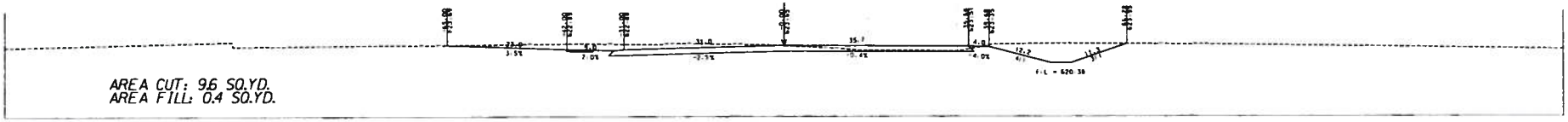
VOL.CUT: 223 CU.YD
VOL.FILL: 12 CU.YD.



AREA CUT: 12.9 SQ.YD.
AREA FILL: 0.6 SQ.YD.

43+00

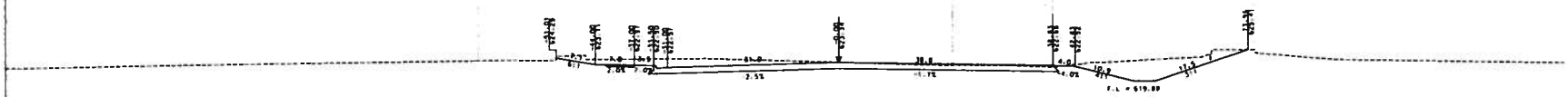
VOL.CUT: 187 CU.YD
VOL.FILL: 8 CU.YD.



AREA CUT: 9.6 SQ.YD.
AREA FILL: 0.4 SQ.YD.

42+50

VOL.CUT: 180 CU.YD
VOL.FILL: 13 CU.YD.

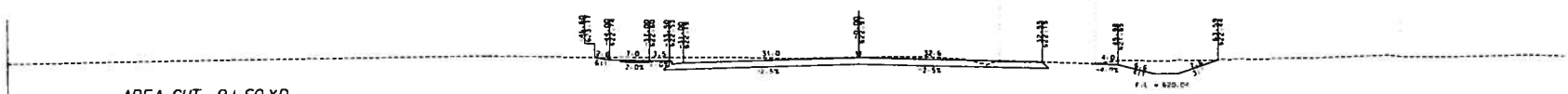


AREA CUT: 12.1 SQ.YD.
AREA FILL: 1.1 SQ.YD.

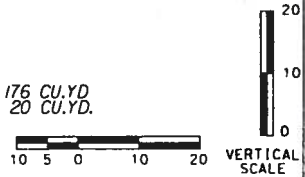
STA 41+70 BEGIN SUPERELEVATION TRANSITION

42+00

VOL.CUT: 176 CU.YD
VOL.FILL: 20 CU.YD.



AREA CUT: 9.1 SQ.YD.
AREA FILL: 1.3 SQ.YD.

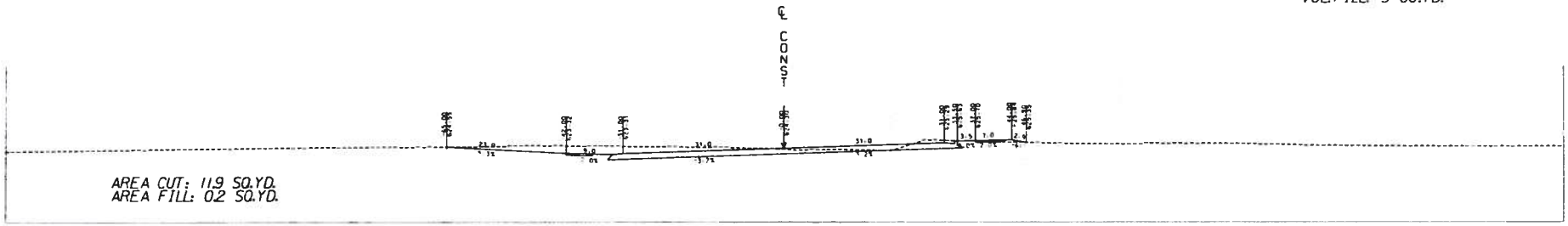


41+50
BEGIN PROJECT = STA 41+50

CHURCH STREET CROSS SECTIONS

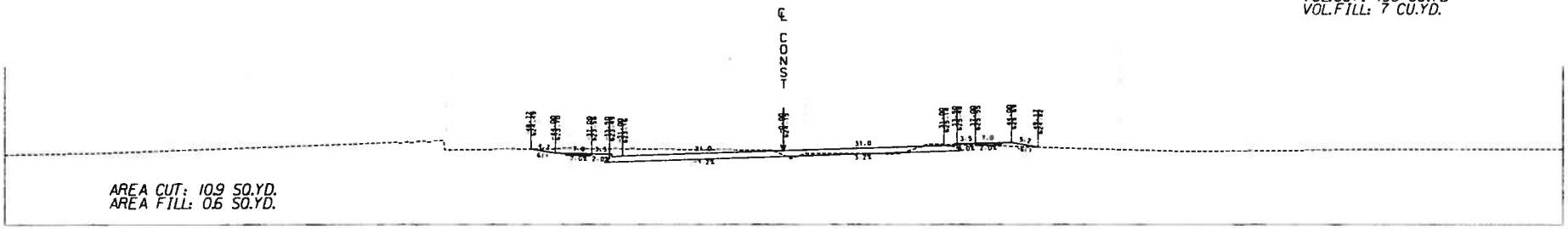
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 85-1(600)	2012	64

VOL.CUT: 227 CU.YD
VOL.FILL: 3 CU.YD.



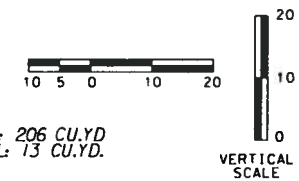
44+50

VOL.CUT: 190 CU.YD
VOL.FILL: 7 CU.YD.

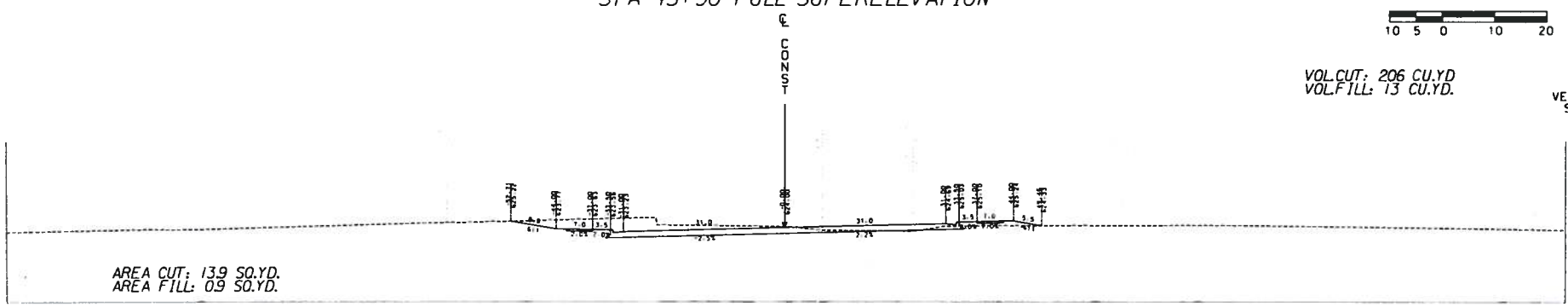


44+00

STA 43+90 FULL SUPERELEVATION



VOL.CUT: 206 CU.YD
VOL.FILL: 13 CU.YD.

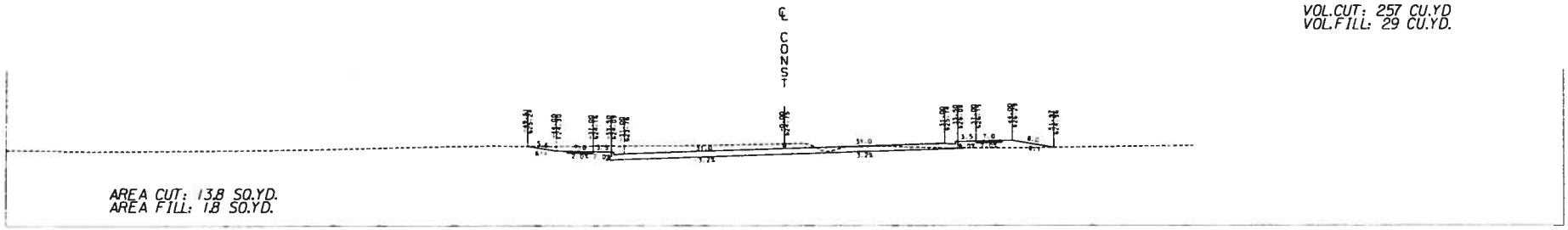


43+50

CHURCH STREET CROSS SECTIONS

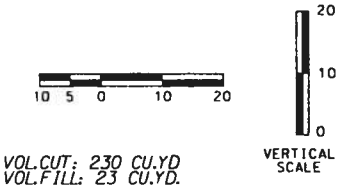
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(009)	2012	65

VOL.CUT: 257 CU.YD
VOL.FILL: 29 CU.YD.

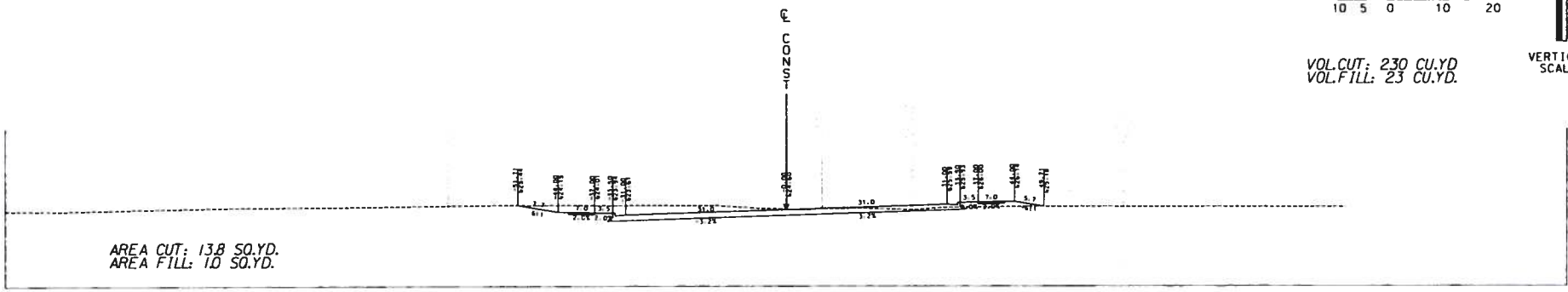


AREA CUT: 13.8 SQ.YD.
AREA FILL: 1.8 SQ.YD.

46+00



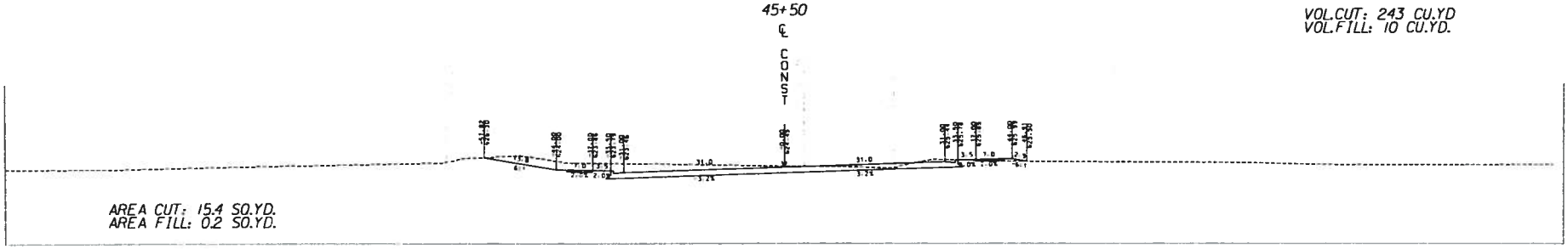
VOL.CUT: 230 CU.YD
VOL.FILL: 23 CU.YD.



AREA CUT: 13.8 SQ.YD.
AREA FILL: 1.0 SQ.YD.

45+50

VOL.CUT: 243 CU.YD
VOL.FILL: 10 CU.YD.

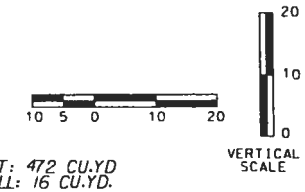


AREA CUT: 15.4 SQ.YD.
AREA FILL: 0.2 SQ.YD.

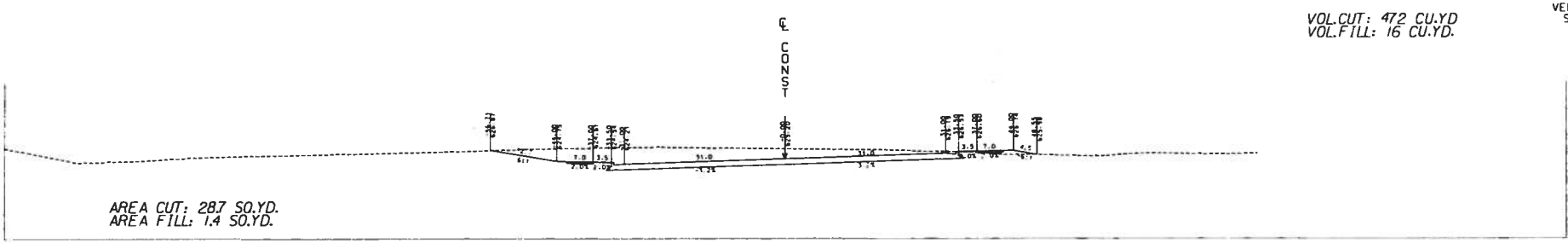
45+00

CHURCH STREET CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8510(500)	2017	66

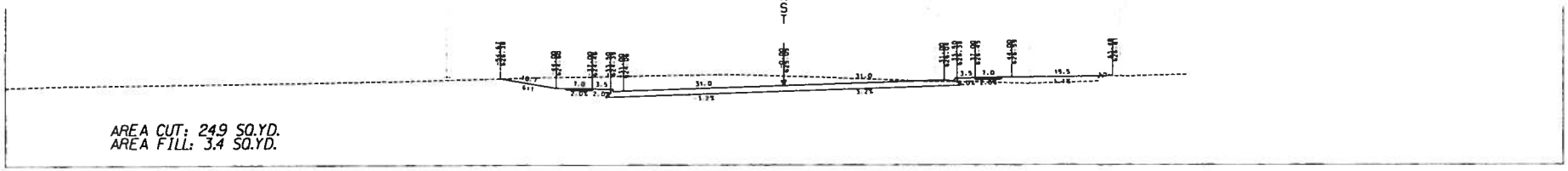


VOL.CUT: 472 CU.YD
VOL.FILL: 16 CU.YD.



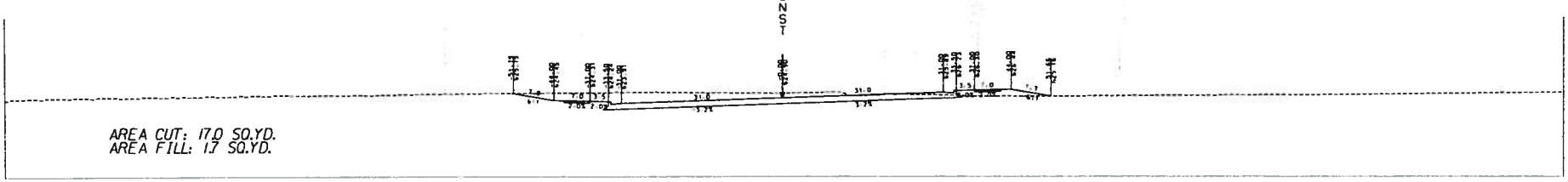
47+50

VOL.CUT: 447 CU.YD
VOL.FILL: 40 CU.YD.



47+00

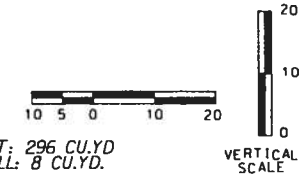
VOL.CUT: 350 CU.YD
VOL.FILL: 42 CU.YD.



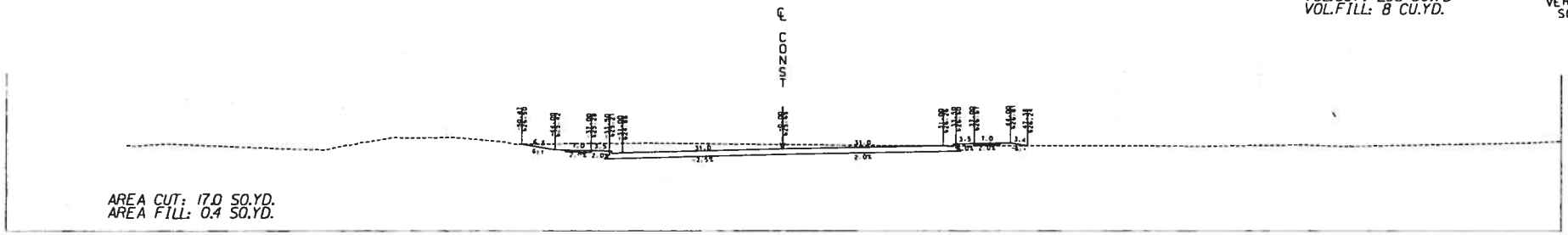
46+50

CHURCH STREET CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(603)	2012	67



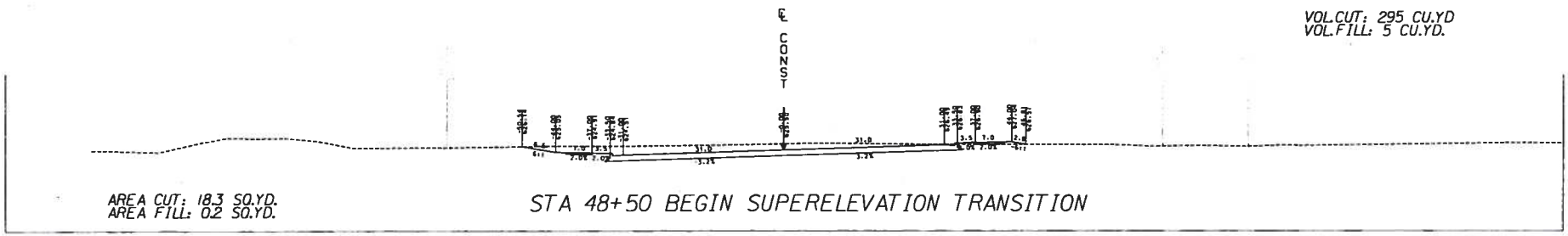
VOL.CUT: 296 CU.YD
VOL.FILL: 8 CU.YD.



AREA CUT: 17.0 SQ.YD.
AREA FILL: 0.4 SQ.YD.

49+00

VOL.CUT: 295 CU.YD
VOL.FILL: 5 CU.YD.

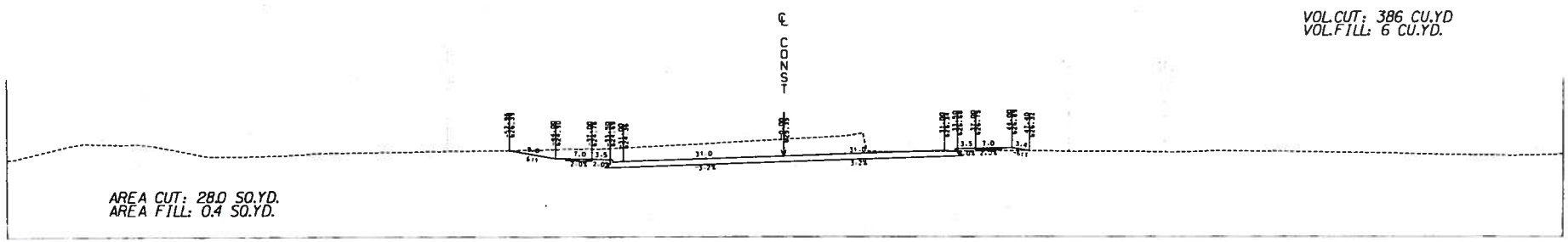


AREA CUT: 18.3 SQ.YD.
AREA FILL: 0.2 SQ.YD.

STA 48+50 BEGIN SUPERELEVATION TRANSITION

48+50

VOL.CUT: 386 CU.YD
VOL.FILL: 6 CU.YD.

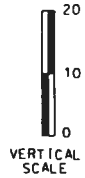


AREA CUT: 28.0 SQ.YD.
AREA FILL: 0.4 SQ.YD.

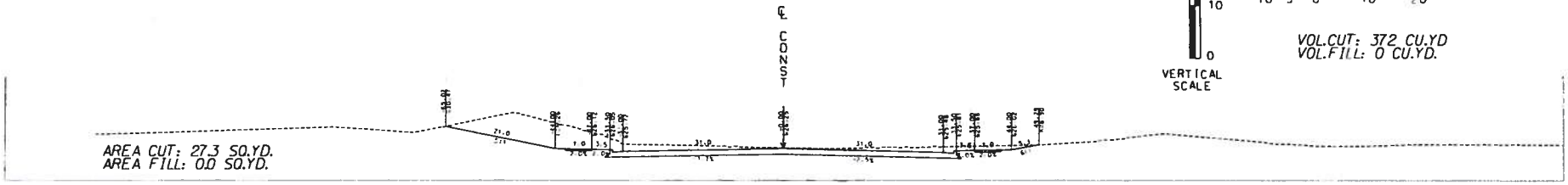
48+00

CHURCH STREET CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO.
STPH / 8540(600)	2012	68



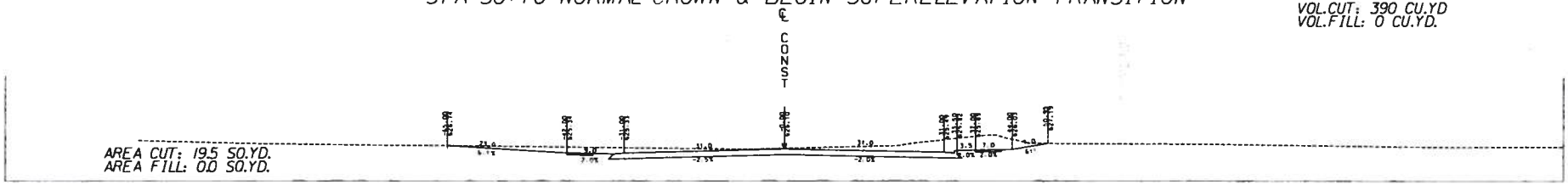
VOL.CUT: 372 CU.YD
VOL.FILL: 0 CU.YD.



51+00

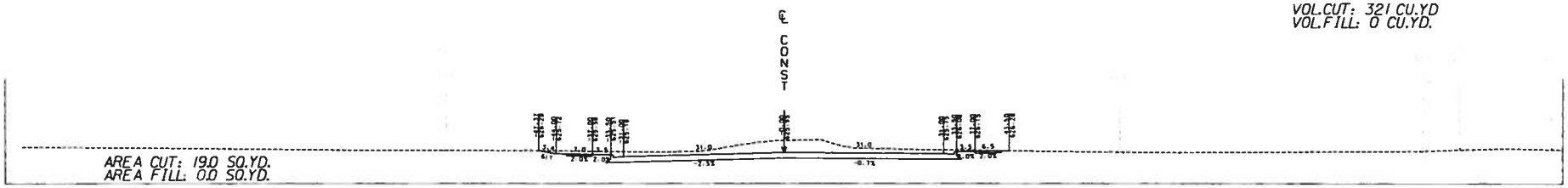
STA 50+70 NORMAL CROWN & BEGIN SUPERELEVATION TRANSITION

VOL.CUT: 390 CU.YD
VOL.FILL: 0 CU.YD.



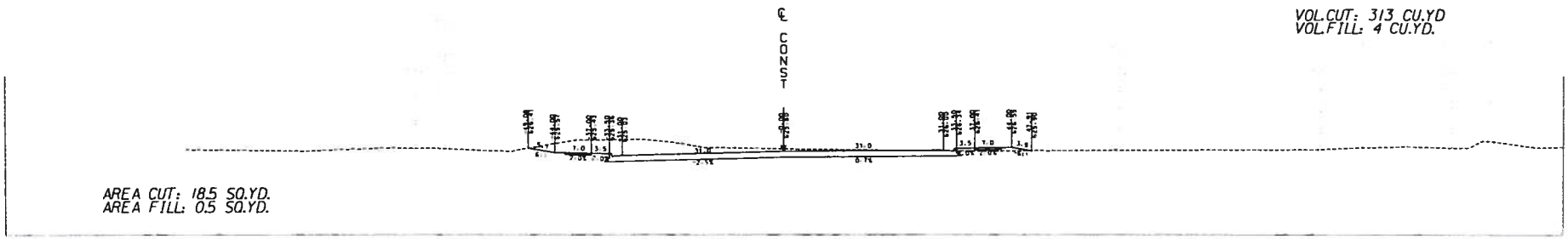
50+50

VOL.CUT: 321 CU.YD
VOL.FILL: 0 CU.YD.



50+00

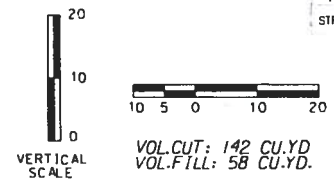
VOL.CUT: 313 CU.YD
VOL.FILL: 4 CU.YD.



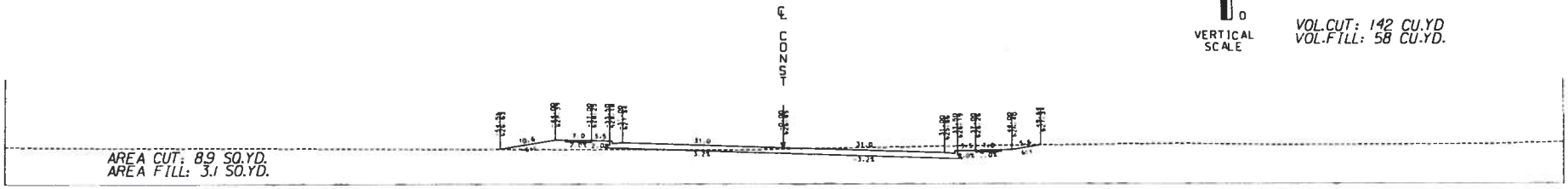
49+50

CHURCH STREET CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(000)	2012	69



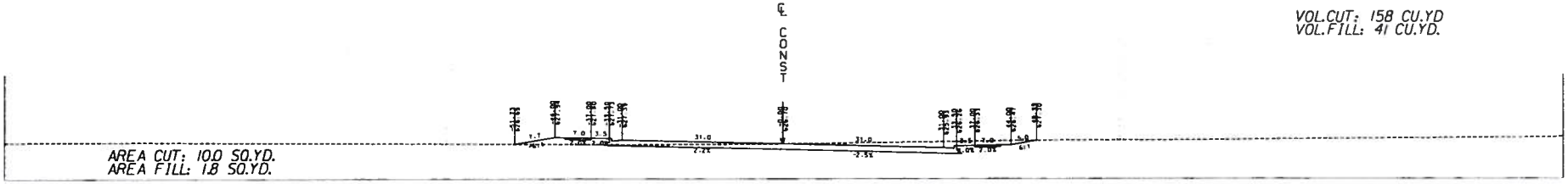
VOL.CUT: 142 CU.YD
VOL.FILL: 58 CU.YD.



53+00

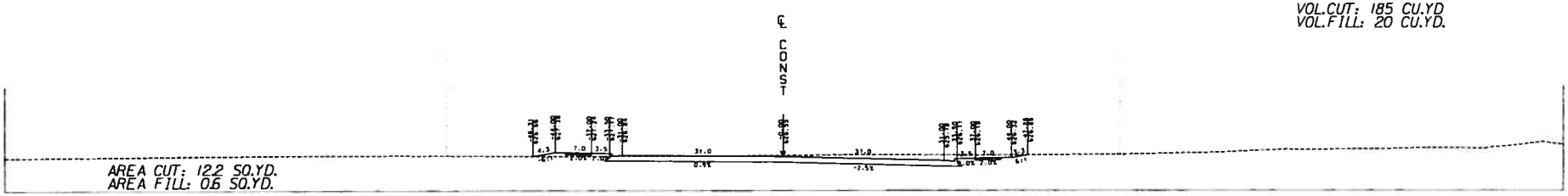
STA 52+90 FULL SUPERELEVATION

VOL.CUT: 158 CU.YD
VOL.FILL: 41 CU.YD.



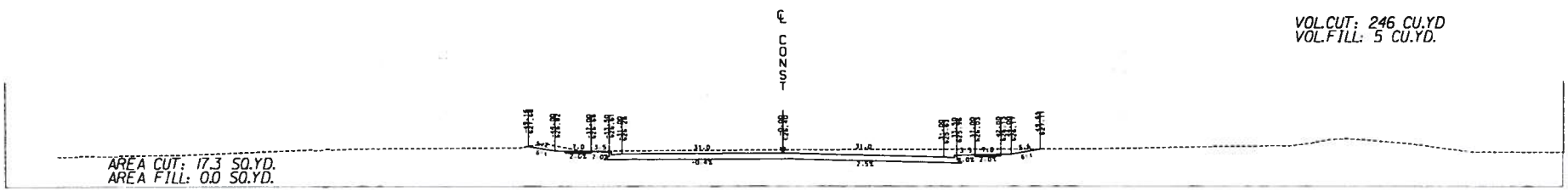
52+50

VOL.CUT: 185 CU.YD
VOL.FILL: 20 CU.YD.



52+00

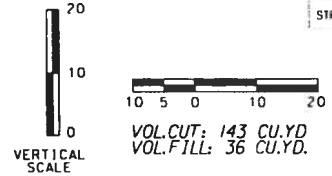
VOL.CUT: 246 CU.YD
VOL.FILL: 5 CU.YD.



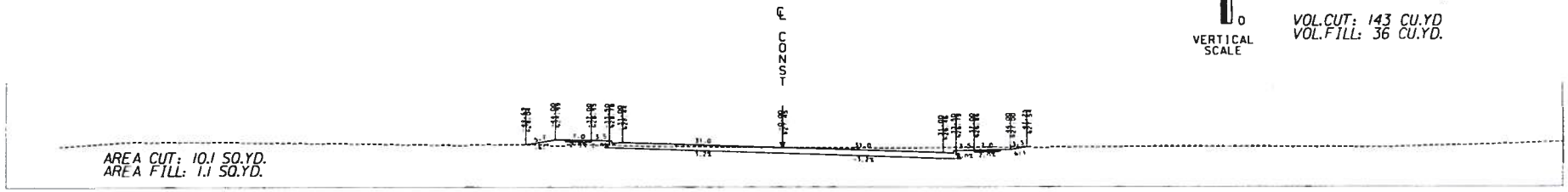
51+50

CHURCH STREET CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(600)	2012	70

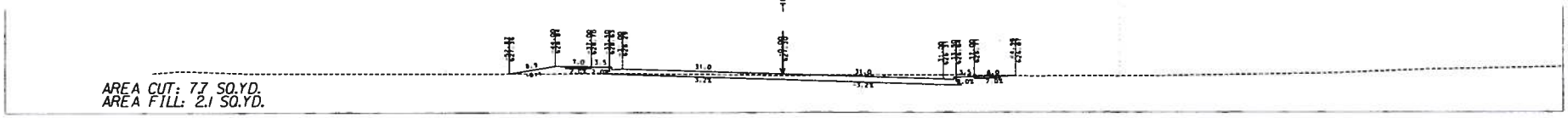


VOL.CUT: 143 CU.YD
VOL.FILL: 36 CU.YD.



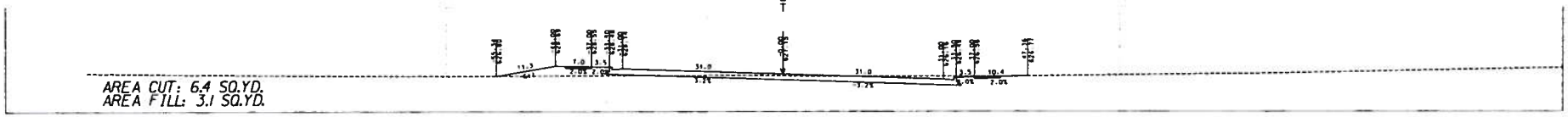
55+00

VOL.CUT: 148 CU.YD
VOL.FILL: 26 CU.YD.



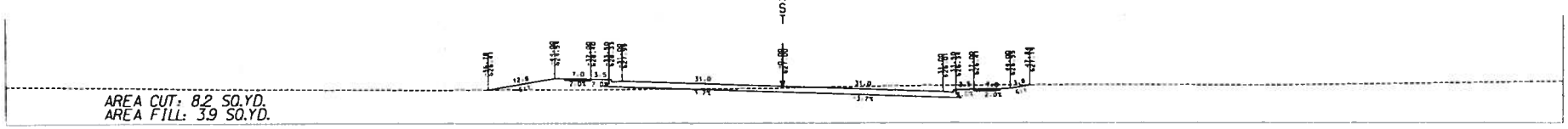
54+50

VOL.CUT: 118 CU.YD
VOL.FILL: 43 CU.YD.



54+00

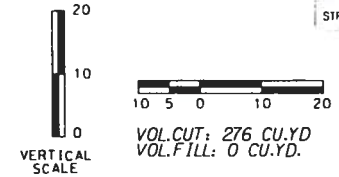
VOL.CUT: 121 CU.YD
VOL.FILL: 59 CU.YD.



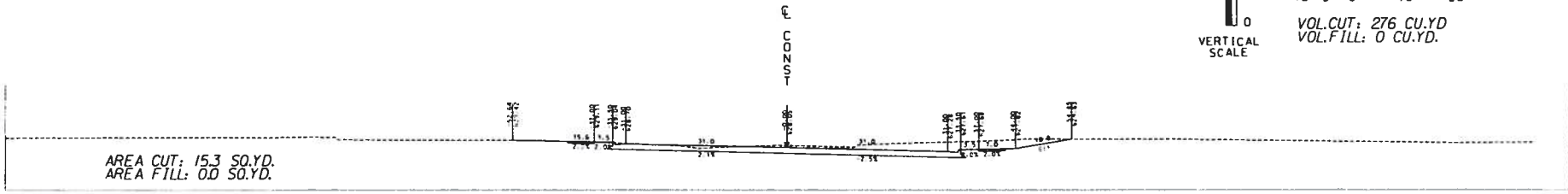
53+50

CHURCH STREET CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(600)	2012	71



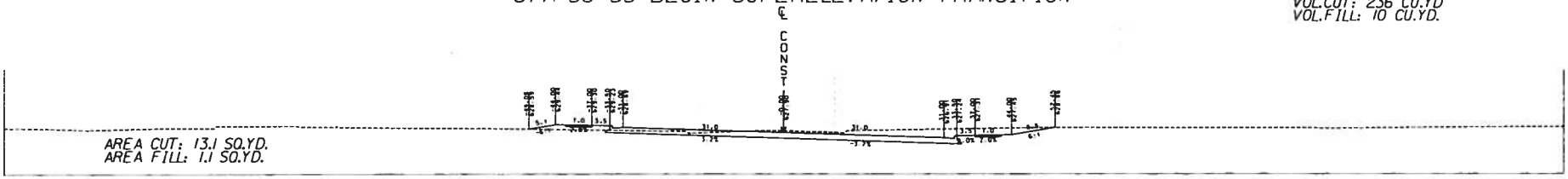
VOL.CUT: 276 CU.YD
VOL.FILL: 0 CU.YD.



57+00

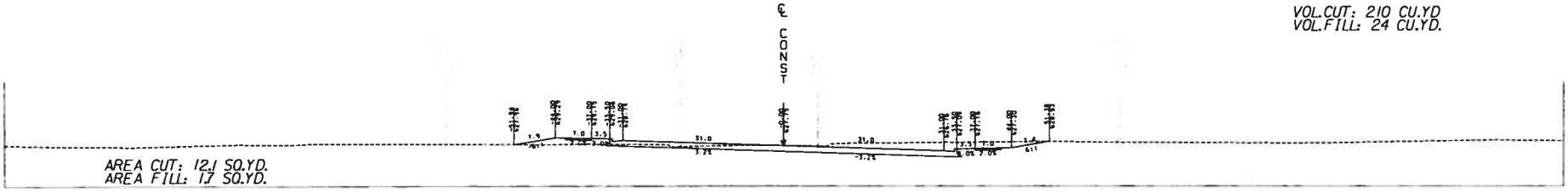
STA 56+55 BEGIN SUPERELEVATION TRANSITION

VOL.CUT: 236 CU.YD
VOL.FILL: 10 CU.YD.



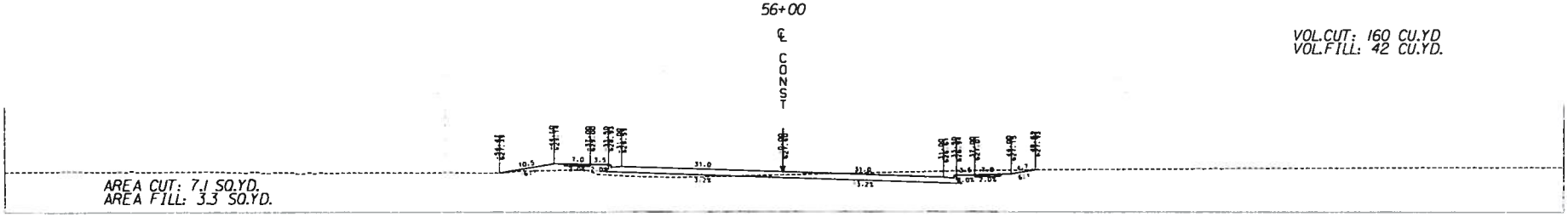
56+50

VOL.CUT: 210 CU.YD
VOL.FILL: 24 CU.YD.



56+00

VOL.CUT: 160 CU.YD
VOL.FILL: 42 CU.YD.



55+50

CHURCH STREET CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(600)	2012	72

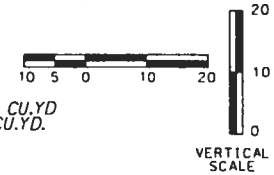
VOL.CUT: 232 CU.YD
VOL.FILL: 0 CU.YD.

℄ CONST

AREA CUT: 14.3 SQ.YD.
AREA FILL: 0.0 SQ.YD.

59+00

STA 58+75 NORMAL CROWN



VOL.CUT: 268 CU.YD
VOL.FILL: 0 CU.YD.

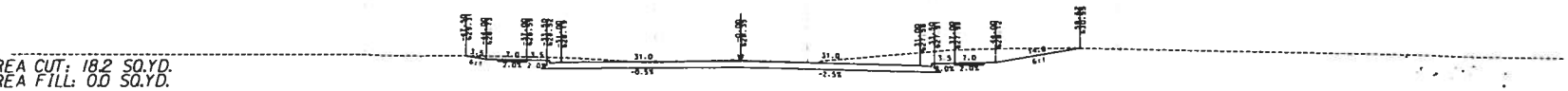
℄ CONST

AREA CUT: 17.8 SQ.YD.
AREA FILL: 0.0 SQ.YD.

58+50

VOL.CUT: 300 CU.YD
VOL.FILL: 0 CU.YD.

℄ CONST



AREA CUT: 18.2 SQ.YD.
AREA FILL: 0.0 SQ.YD.

58+00

VOL.CUT: 301 CU.YD
VOL.FILL: 0 CU.YD.

℄ CONST

AREA CUT: 17.8 SQ.YD.
AREA FILL: 0.0 SQ.YD.

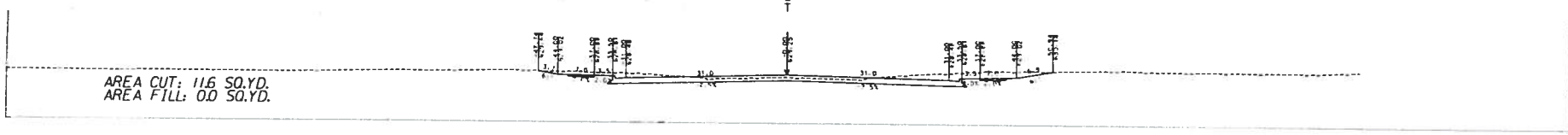
57+50

CHURCH STREET CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8510(600)	2012	73

℄ CONST

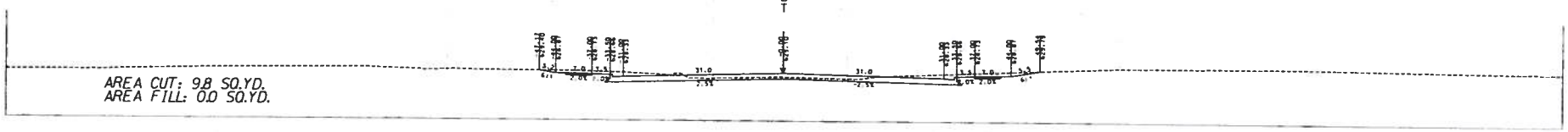
VOL.CUT: 216 CU.YD
VOL.FILL: 0 CU.YD.



61+00

℄ CONST

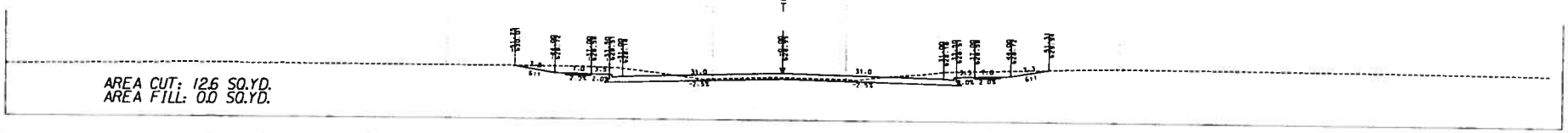
VOL.CUT: 178 CU.YD
VOL.FILL: 0 CU.YD.

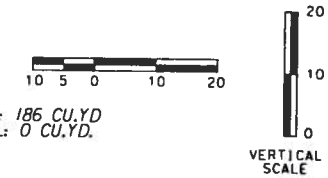


60+50

℄ CONST

VOL.CUT: 186 CU.YD
VOL.FILL: 0 CU.YD.

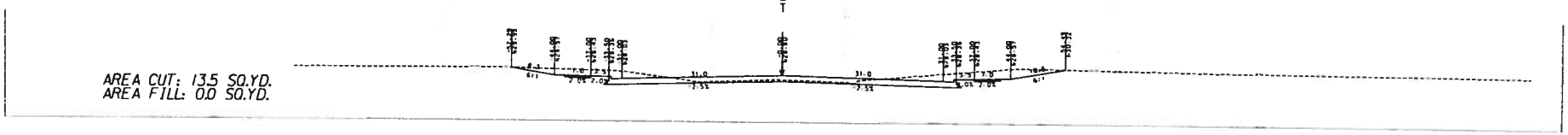




60+00

℄ CONST

VOL.CUT: 217 CU.YD
VOL.FILL: 0 CU.YD.



59+50

CHURCH STREET CROSS SECTIONS

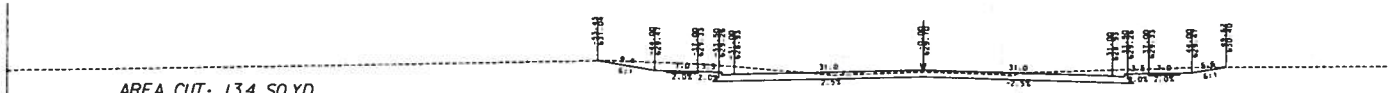
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPH/ 8510(600)	2012	14

VOL.CUT: 242 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 14.2 SQ.YD.
AREA FILL: 0.0 SQ.YD.

63+00

VOL.CUT: 230 CU.YD
VOL.FILL: 0 CU.YD.



AREA CUT: 13.4 SQ.YD.
AREA FILL: 0.0 SQ.YD.

62+50

VOL.CUT: 248 CU.YD
VOL.FILL: 0 CU.YD.

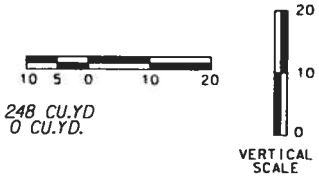
AREA CUT: 16.4 SQ.YD.
AREA FILL: 0.0 SQ.YD.

62+00

VOL.CUT: 256 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 14.3 SQ.YD.
AREA FILL: 0.0 SQ.YD.

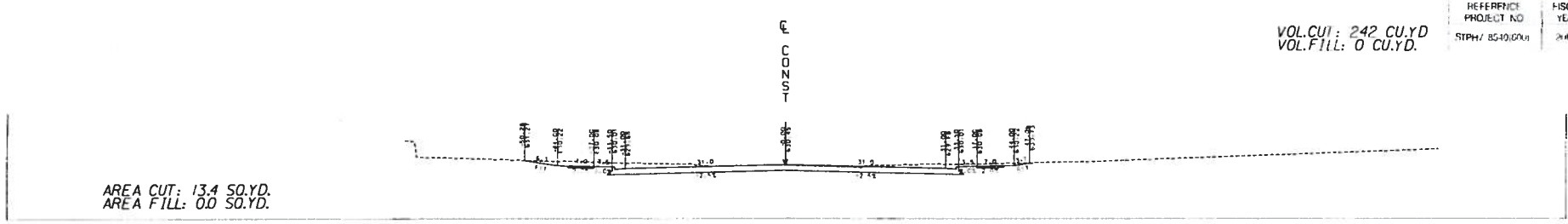
61+50



CHURCH STREET CROSS SECTIONS

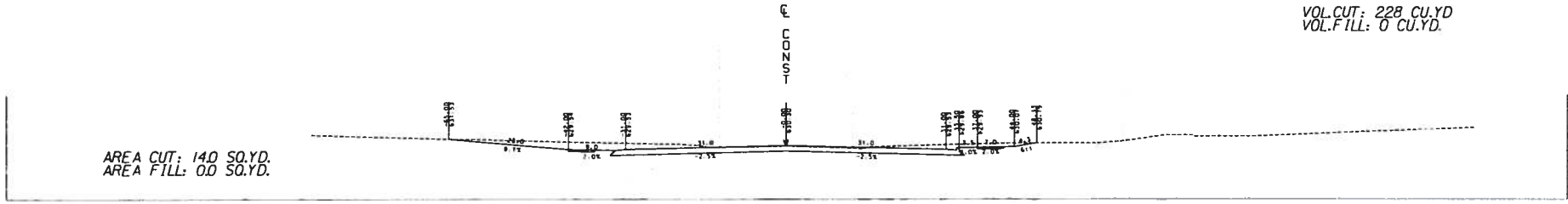
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPH/ 8540(004)	2002	75

VOL.CUT: 242 CU.YD
VOL.FILL: 0 CU.YD.

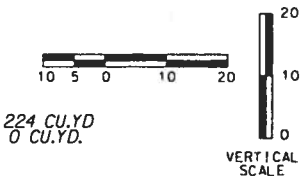


65+00

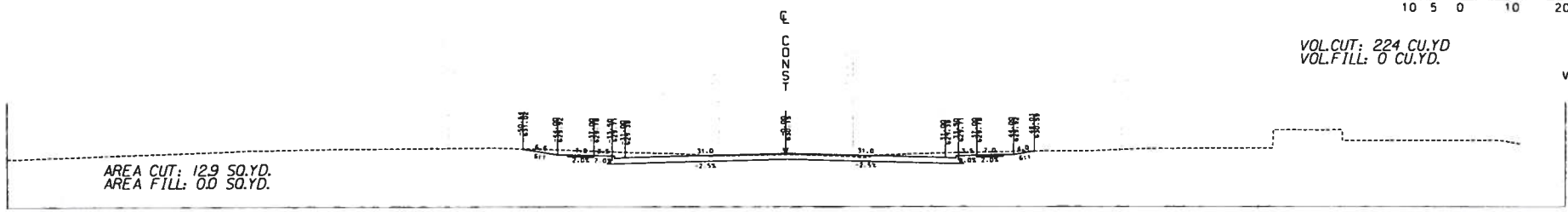
VOL.CUT: 228 CU.YD
VOL.FILL: 0 CU.YD.



64+50

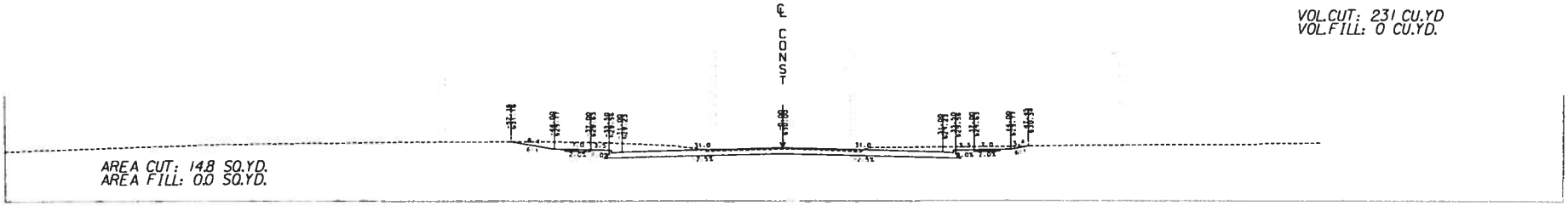


VOL.CUT: 224 CU.YD
VOL.FILL: 0 CU.YD.



64+00

VOL.CUT: 231 CU.YD
VOL.FILL: 0 CU.YD.



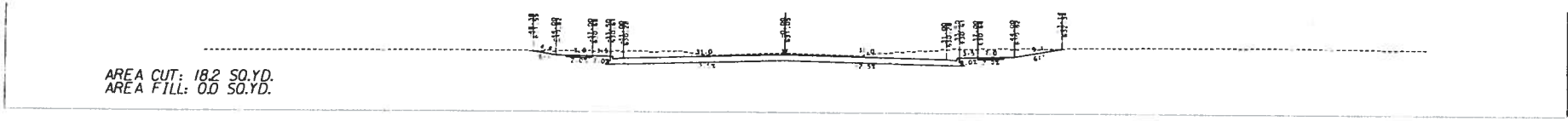
63+50

CHURCH STREET CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPH-2 [illegible]	2012	76

℄ CONST

VOL.CUT: 319 CU.YD
VOL.FILL: 0 CU.YD.

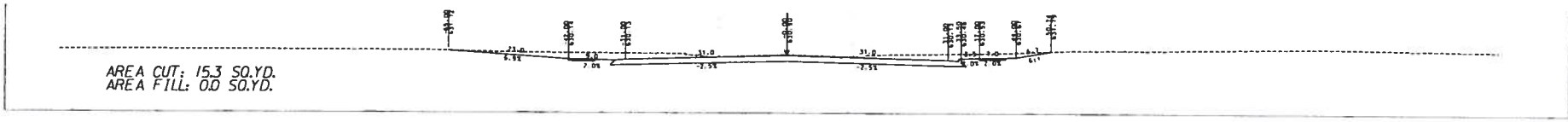


AREA CUT: 18.2 SQ.YD.
AREA FILL: 0.0 SQ.YD.

67+00

℄ CONST

VOL.CUT: 279 CU.YD
VOL.FILL: 0 CU.YD.



AREA CUT: 15.3 SQ.YD.
AREA FILL: 0.0 SQ.YD.

66+50

℄ CONST

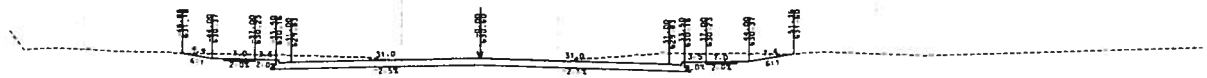
VOL.CUT: 258 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 15.7 SQ.YD.
AREA FILL: 0.0 SQ.YD.

66+00

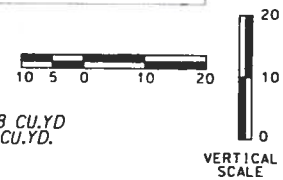
℄ CONST

VOL.CUT: 262 CU.YD
VOL.FILL: 0 CU.YD.



AREA CUT: 15.7 SQ.YD.
AREA FILL: 0.0 SQ.YD.

65+50



CHURCH STREET CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(600)	2012	77

VOL.CUT: 320 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 18.5 SQ.YD.
AREA FILL: 0.0 SQ.YD.

69+00

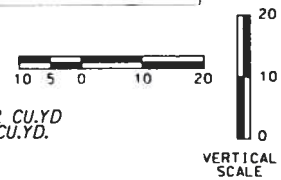
VOL.CUT: 309 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 18.5 SQ.YD.
AREA FILL: 0.0 SQ.YD.

68+50

VOL.CUT: 302 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 17.7 SQ.YD.
AREA FILL: 0.0 SQ.YD.



68+00

VOL.CUT: 315 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 20.1 SQ.YD.
AREA FILL: 0.0 SQ.YD.

67+50

CHURCH STREET CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPH. 85-10(609)	2012	78

℄ CONST

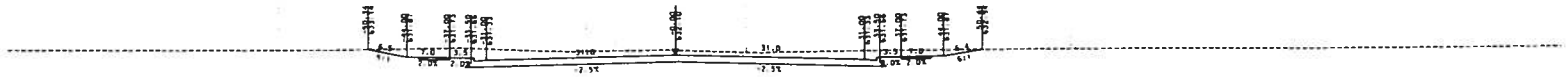
VOL.CUT: 373 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 26.1 SQ.YD.
AREA FILL: 0.0 SQ.YD.

71+00

℄ CONST

VOL.CUT: 431 CU.YD
VOL.FILL: 0 CU.YD.



AREA CUT: 25.6 SQ.YD.
AREA FILL: 0.0 SQ.YD.

70+50

℄ CONST

VOL.CUT: 412 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 23.9 SQ.YD.
AREA FILL: 0.0 SQ.YD.

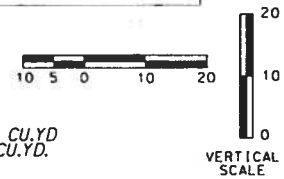
70+00

℄ CONST

VOL.CUT: 365 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 19.9 SQ.YD.
AREA FILL: 0.0 SQ.YD.

69+50

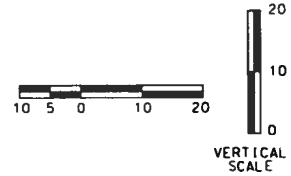


CHURCH STREET CROSS SECTIONS

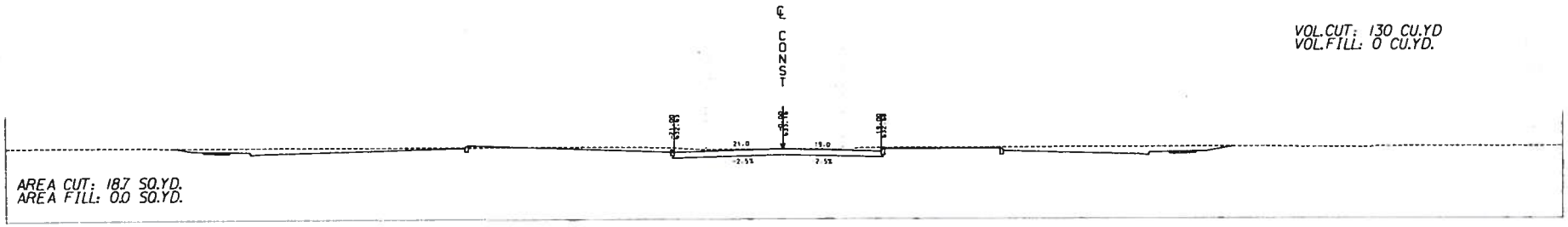
CHURCH STREET EARTHWORK TOTALS:

TOTAL BORROW EXCAVATION - 623 CU YD

TOTAL UNCLASSIFIED EXCAVATION - 15780 CU YD



END PROJECT = STA 71+91.66



VOL.CUT: 130 CU.YD
VOL.FILL: 0 CU.YD.

71+50

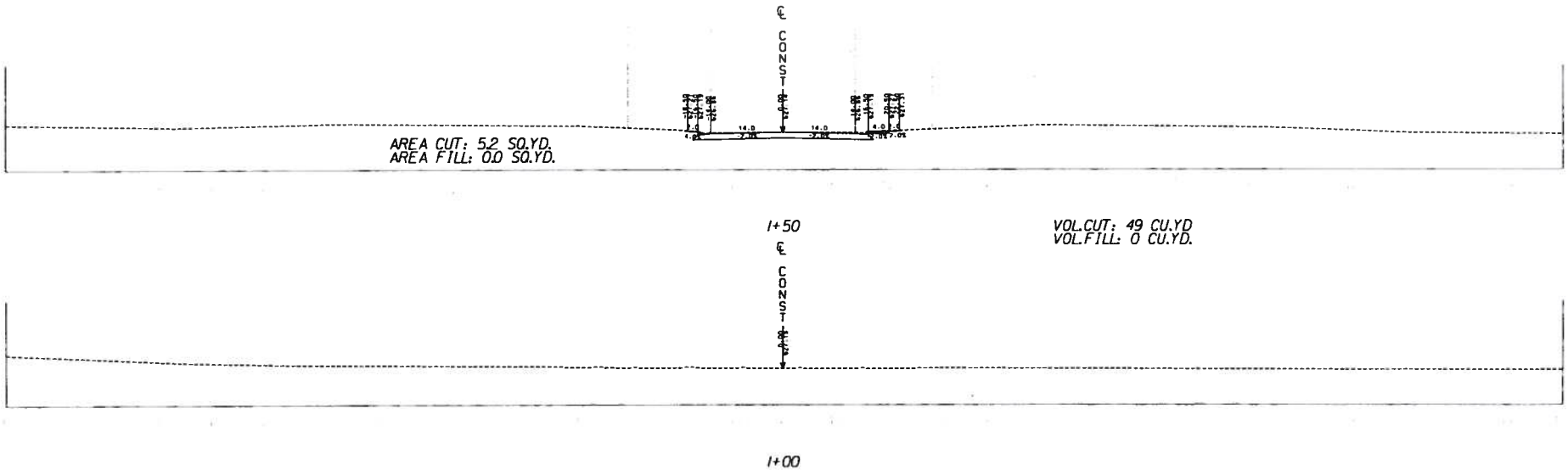
CHURCH STREET CROSS SECTIONS

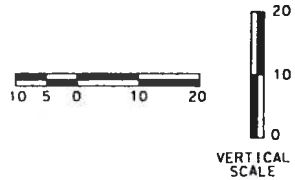
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHY-8540(000)	2012	9a

FREDERICK AVENUE EARTHWORK TOTALS:

TOTAL BORROW EXCAVATION = 0 CU YD
TOTAL UNCLASSIFIED EXCAVATION = 69 CU YD

END WORK STA 1+50.00
MATCH EXISTING PAVEMENT



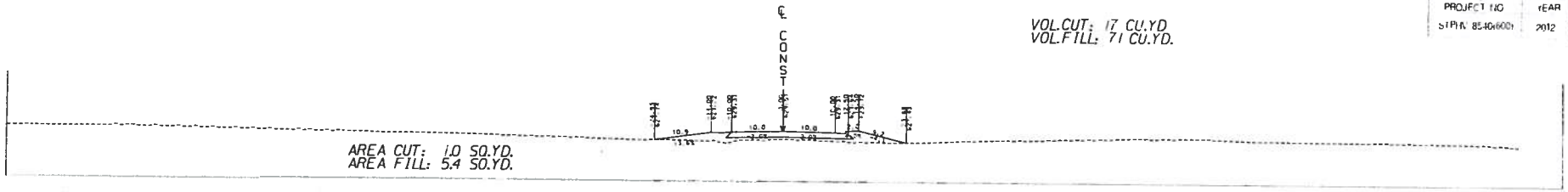


Sta 1+00.00 - Sta 1+50.00

FREDERICK AVENUE CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPN 8540(600)	2012	81

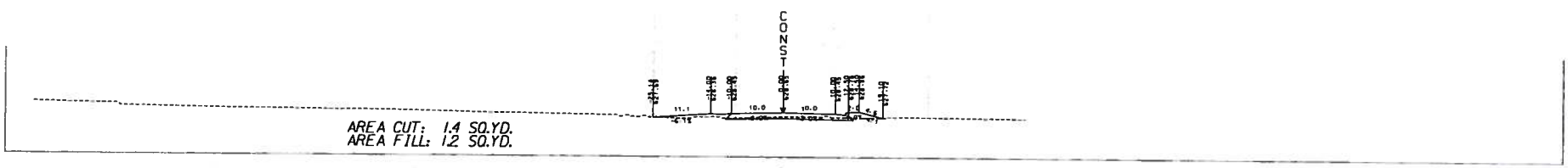
VOL.CUT: 17 CU.YD
VOL.FILL: 71 CU.YD.



AREA CUT: 1.0 SQ.YD.
AREA FILL: 5.4 SQ.YD.

2+00

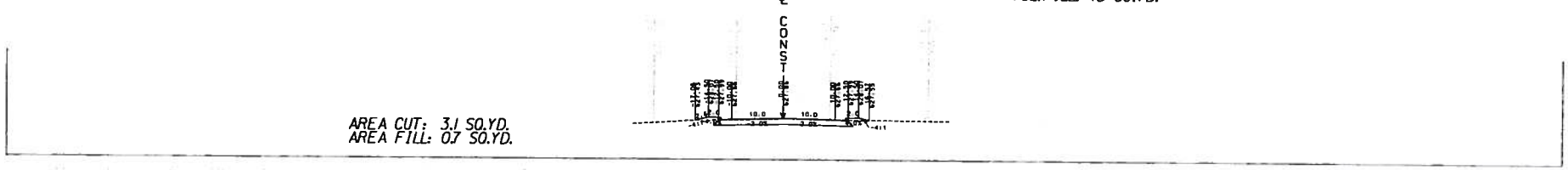
VOL.CUT: 20 CU.YD
VOL.FILL: 55 CU.YD.



AREA CUT: 1.4 SQ.YD.
AREA FILL: 1.2 SQ.YD.

1+50

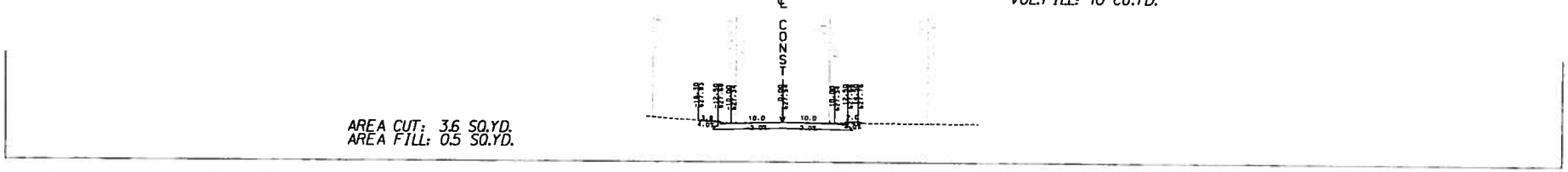
VOL.CUT: 37 CU.YD
VOL.FILL: 15 CU.YD.



AREA CUT: 3.1 SQ.YD.
AREA FILL: 0.7 SQ.YD.

1+00

VOL.CUT: 56 CU.YD
VOL.FILL: 10 CU.YD.



AREA CUT: 3.6 SQ.YD.
AREA FILL: 0.5 SQ.YD.

0+50

END WORK STA.0+50.00
MATCH EXISTING PAVEMENT

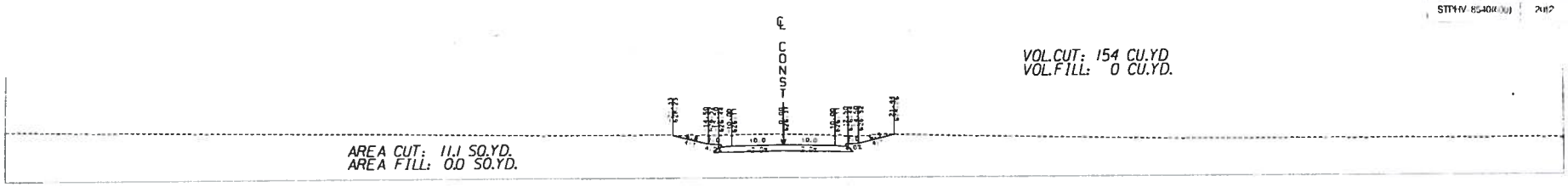
End Work - Sta 2+00.00

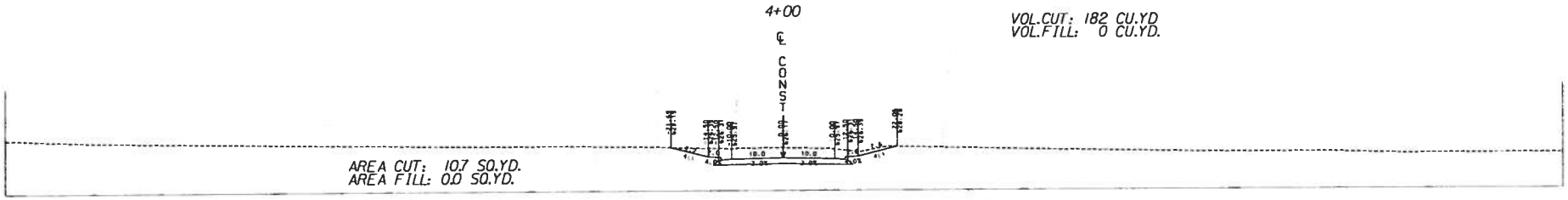
10 5 0 10 20

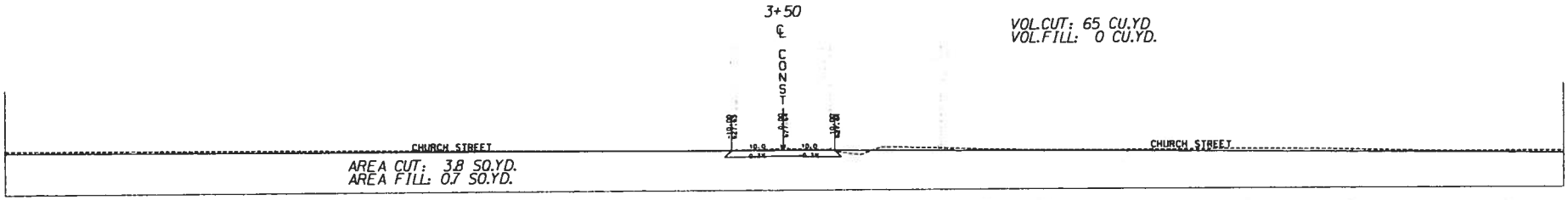
20
10
0
VERTICAL SCALE

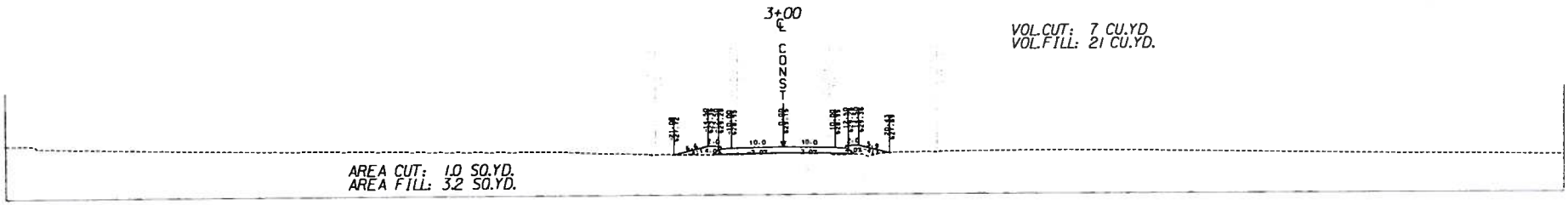
PEARL AVENUE CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STH-V 86-00(00)	2002	82

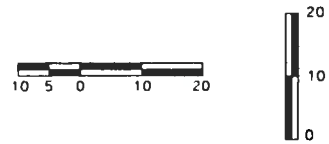








2+50



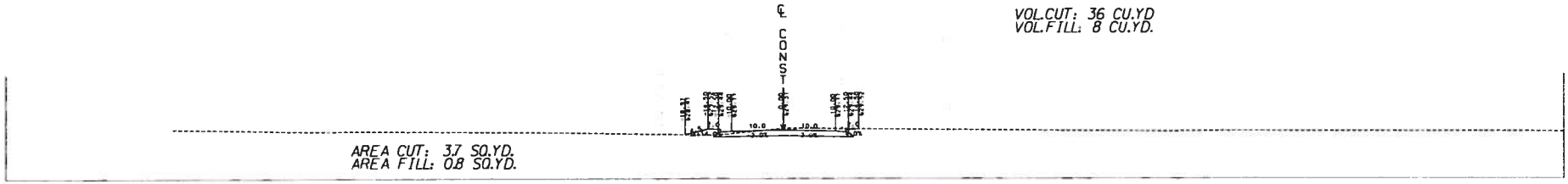
Sta 2+50.00 - Sta 4+00.00

PEARL AVENUE CROSS SECTIONS

PEARL AVENUE EARTHWORK TOTALS:

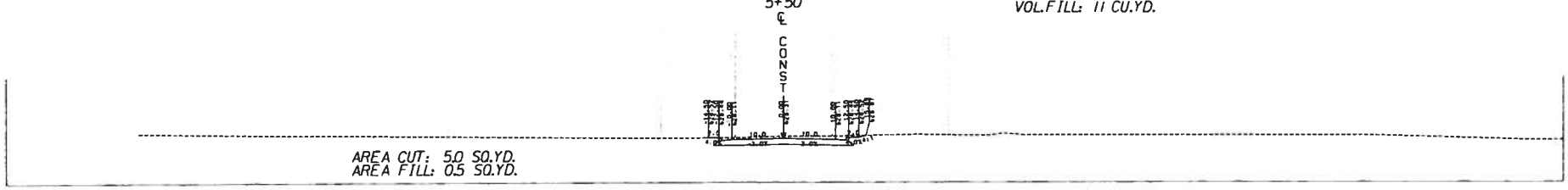
TOTAL BORROW EXCAVATION • 195 CU YD
TOTAL UNCLASSIFIED EXCAVATION • 749 CU YD

END WORK STA 5+89.07



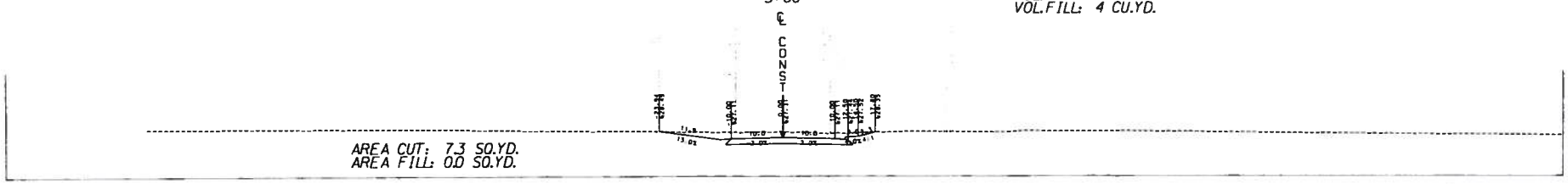
VOL.CUT: 36 CU.YD
VOL.FILL: 8 CU.YD.

5+50



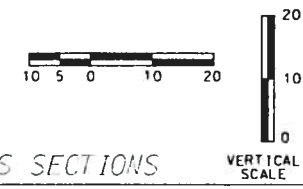
VOL.CUT: 73 CU.YD
VOL.FILL: 11 CU.YD.

5+00



VOL.CUT: 103 CU.YD
VOL.FILL: 4 CU.YD.

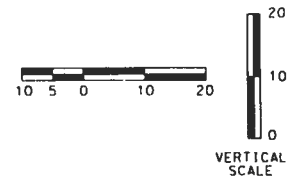
4+50

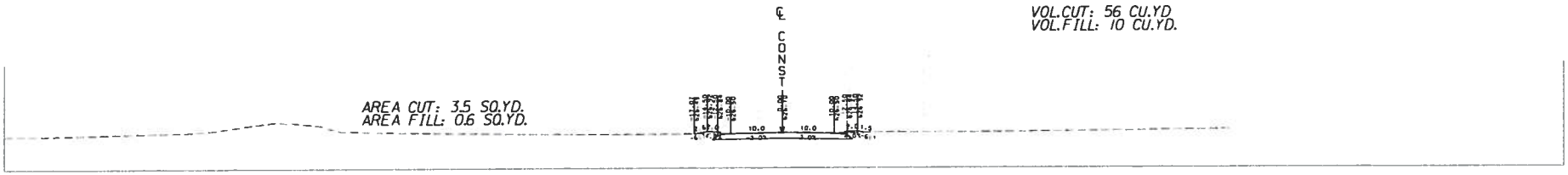


Sta 4+50.00 - Sta 5+50.00

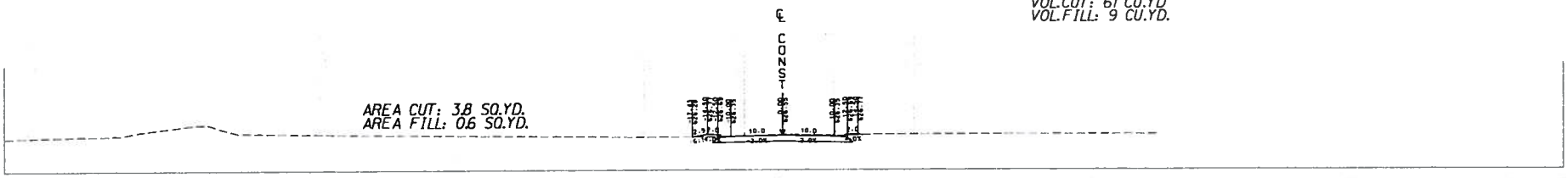
PEARL AVENUE CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STP(T) 854(#90)	2012	86

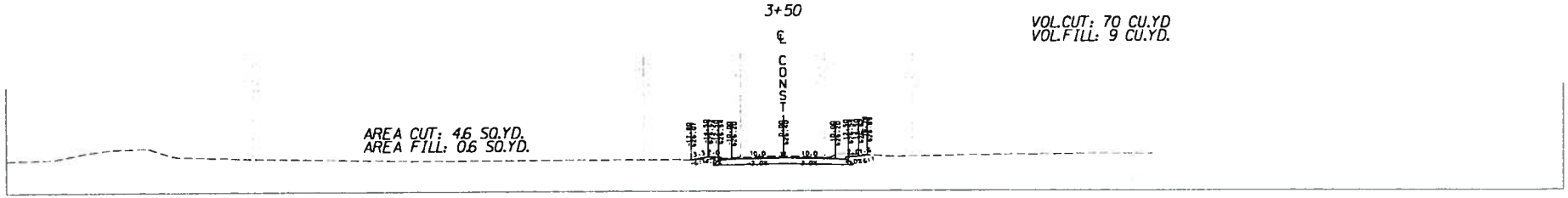




4+00



3+50



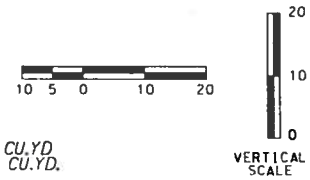
3+00

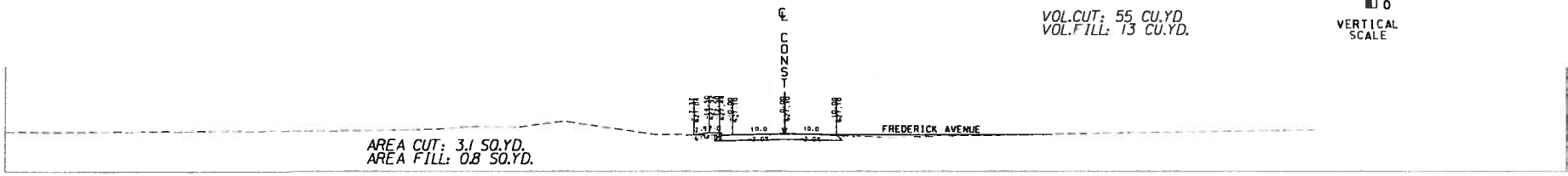
BEGIN WORK STA.2+70.03

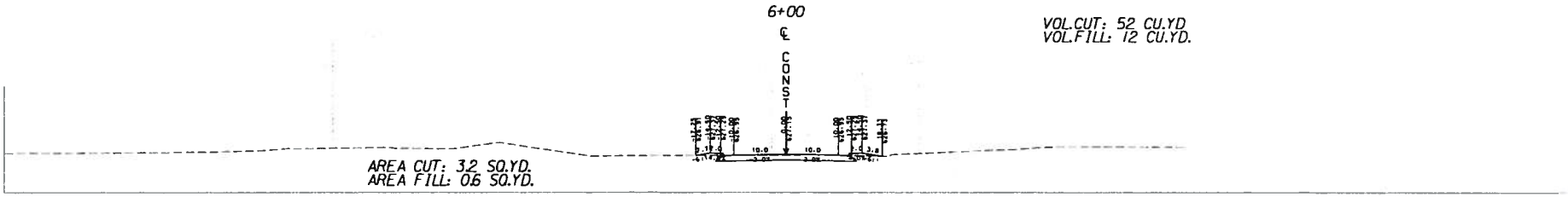
Sta 3+00.00 - Sta 4+00.00

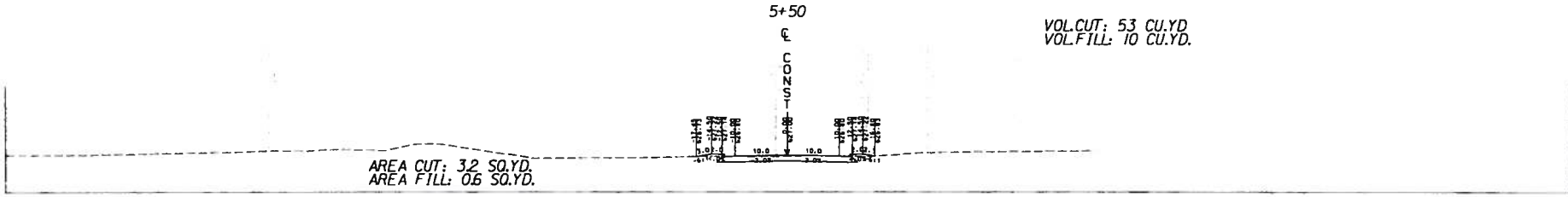
ORCHARD STREET CROSS SECTIONS

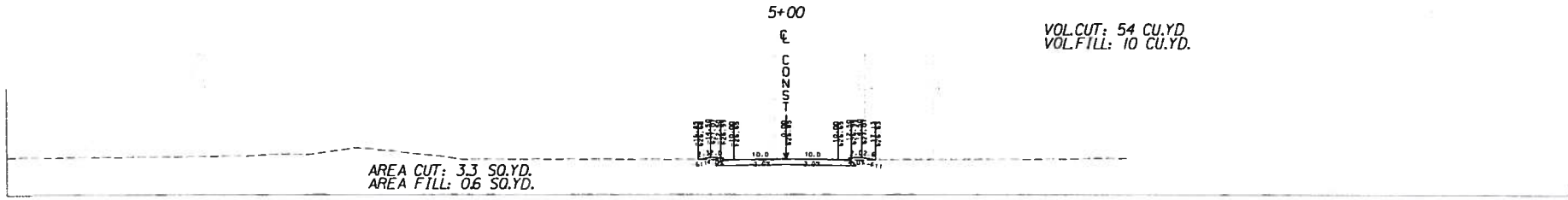
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STP(V) 8540(005)	2012	8/









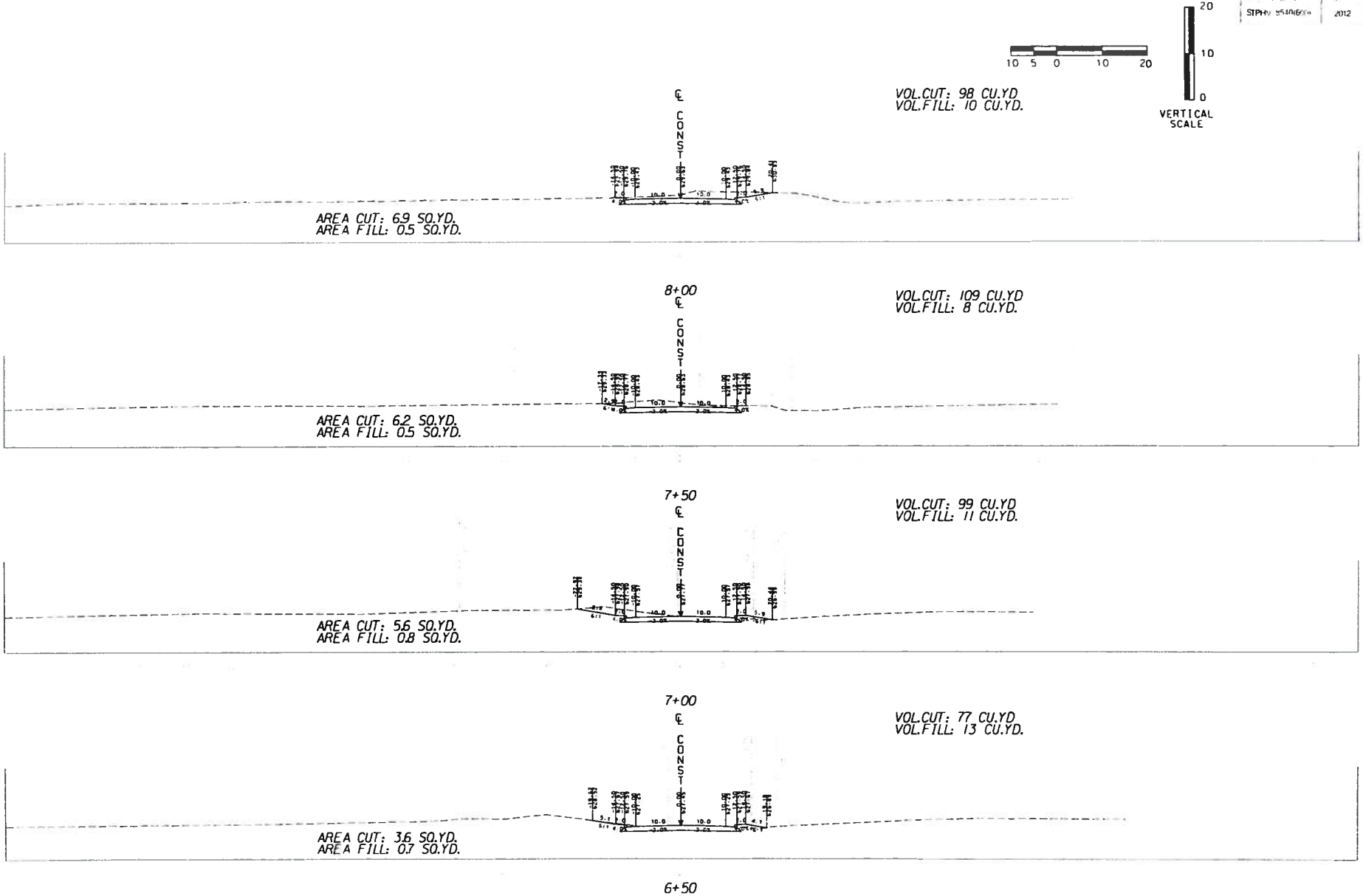


4+50

Sta 4+50.00 - Sta 6+00.00

ORCHARD STREET CROSS SECTIONS

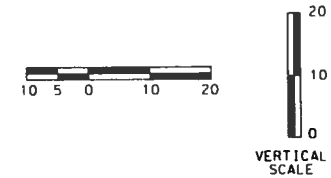
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 5140(6)[illegible]	2012	8H



Sta 6+50.00 - Sta 8+00.00

ORCHARD STREET CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(8X)	2012	89

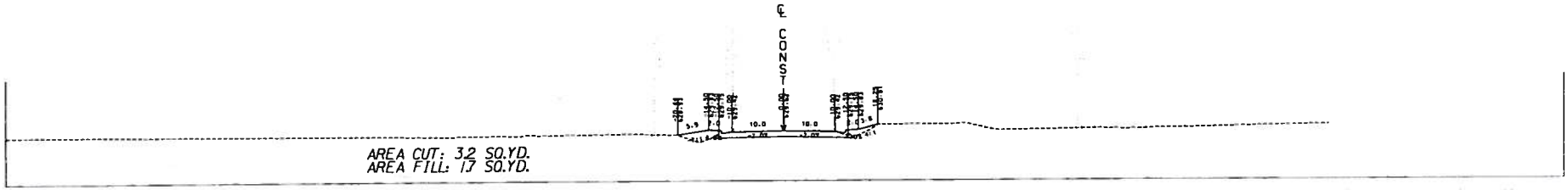


ORCHARD STREET EARTHWORK TOTALS:

TOTAL BORROW EXCAVATION - 170 CU YD
TOTAL UNCLASSIFIED EXCAVATION - 1666 CU YD

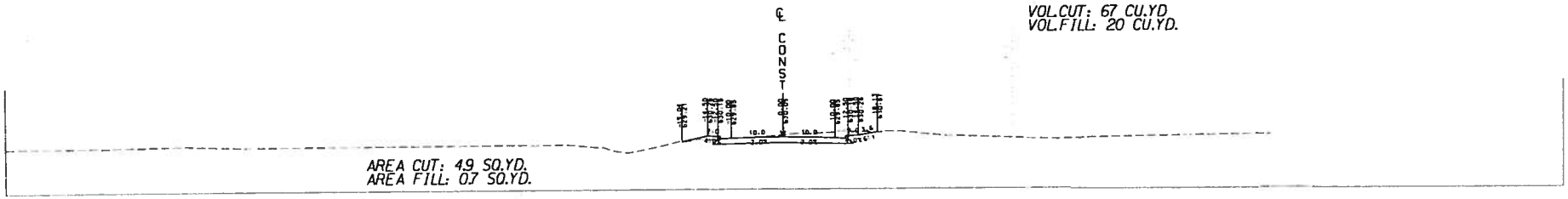
END WORK STA 9+44.58

VOL.CUT: 47 CU.YD
VOL.FILL: 25 CU.YD.



9+00

VOL.CUT: 67 CU.YD
VOL.FILL: 20 CU.YD.

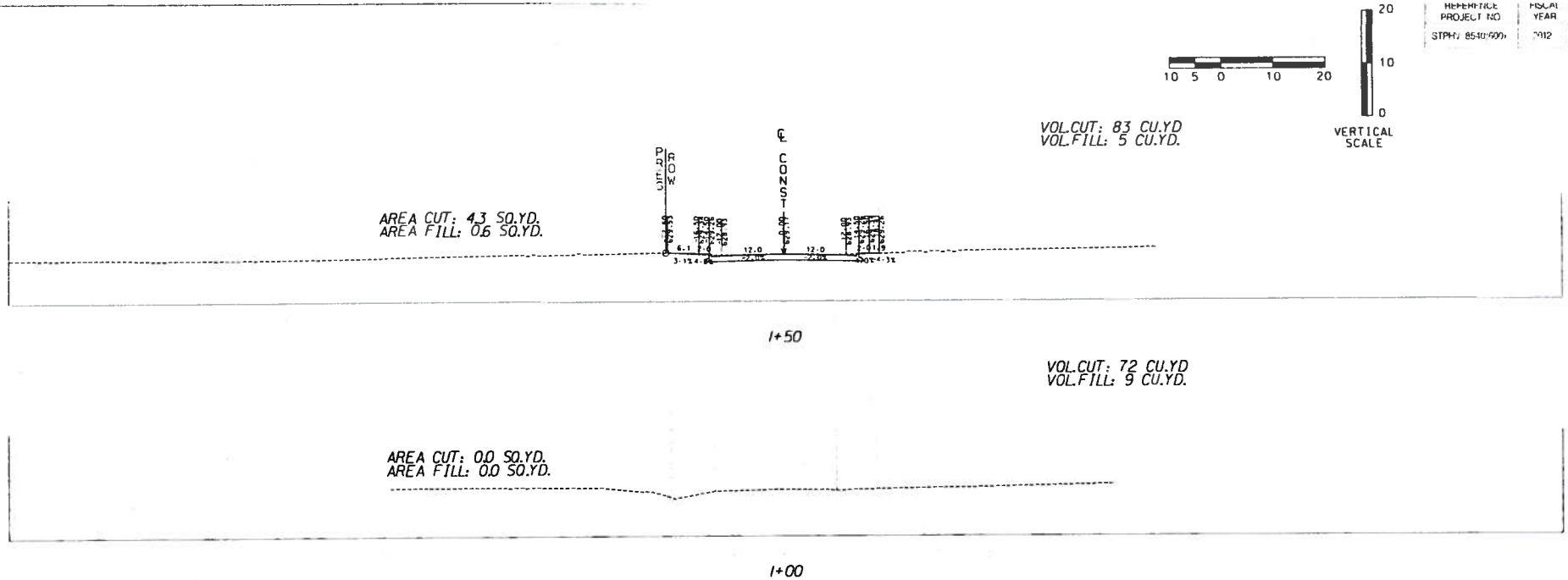


8+50

Sta 8+50.00 - End Work

ORCHARD STREET CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPH-7 85-30(600)	2012	89



END WORK STA 1+00.00
MATCH EXISTING PAVEMENT

Sta 0+50.00 - Sta 1+50.00

DEMASTERS AVENUE CROSS SECTIONS

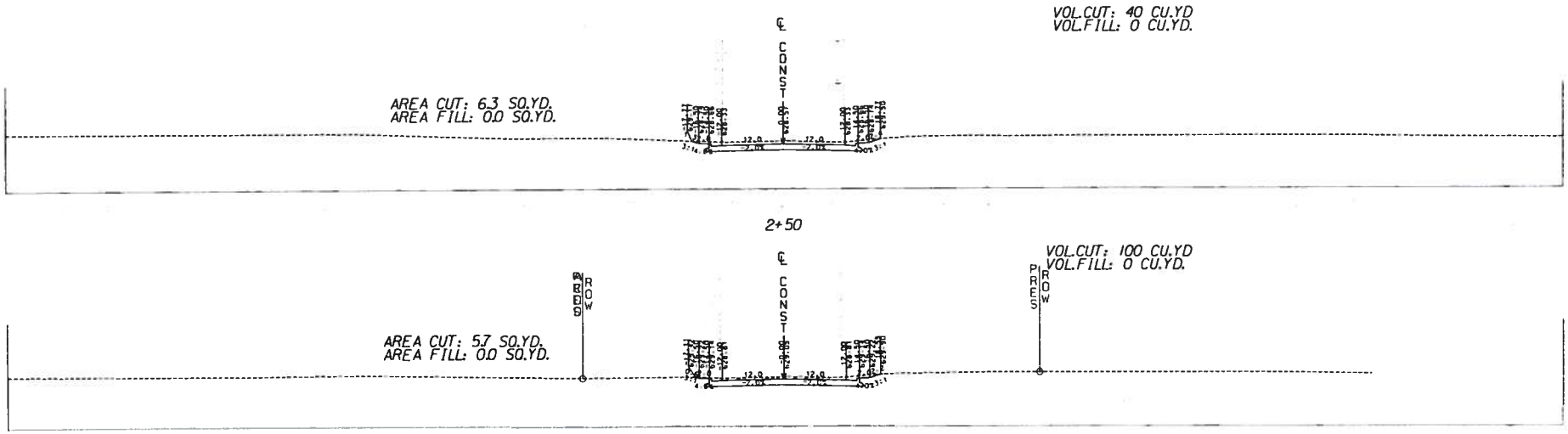
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8510(600)	2012	91

10 5 0 10 20

20
10
0
VERTICAL SCALE

DEMASTERS AVENUE EARTHWORK TOTALS:

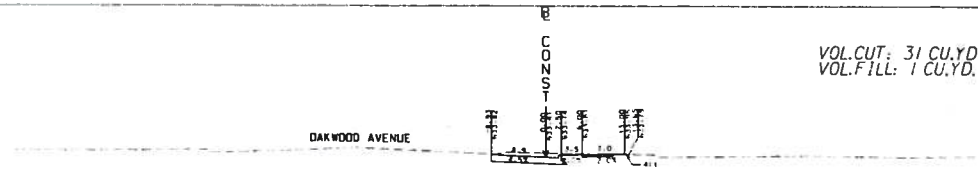
TOTAL BORROW EXCAVATION • 14 CU YD
TOTAL UNCLASSIFIED EXCAVATION • 295 CU YD



Sta 2+00.00 - Sta 2+50.00

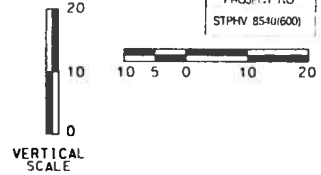
DEMASTERS AVENUE CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8540(600)	2012	92



VOL.CUT: 31 CU.YD
VOL.FILL: 1 CU.YD.

AREA CUT: 2.1 SQ.YD.
AREA FILL: 0.1 SQ.YD.



5+75

VOL.CUT: 15 CU.YD
VOL.FILL: 3 CU.YD.

AREA CUT: 1.4 SQ.YD.
AREA FILL: 0.4 SQ.YD.

5+50

VOL.CUT: 10 CU.YD
VOL.FILL: 3 CU.YD.

AREA CUT: 0.9 SQ.YD.
AREA FILL: 0.2 SQ.YD.

5+25

VOL.CUT: 6 CU.YD
VOL.FILL: 2 CU.YD.

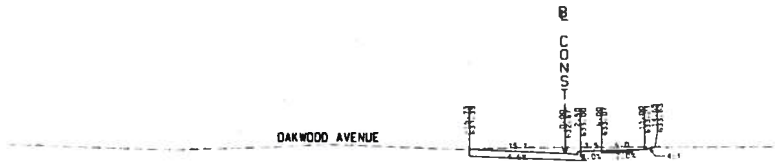
AREA CUT: 0.5 SQ.YD.
AREA FILL: 0.1 SQ.YD.

5+00

OAKWOOD AVENUE CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STP(V 8540(001)	2012	93

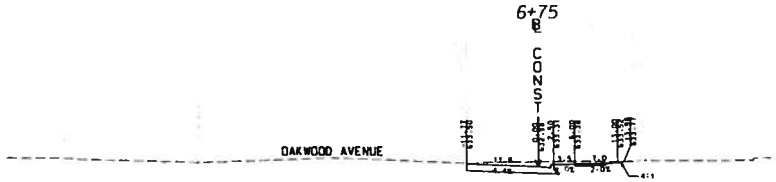
VOL.CUT: 536 CU.YD
VOL.FILL: 0 CU.YD.



AREA CUT: 4.2 SQ.YD.
AREA FILL: 0.0 SQ.YD.

6+75

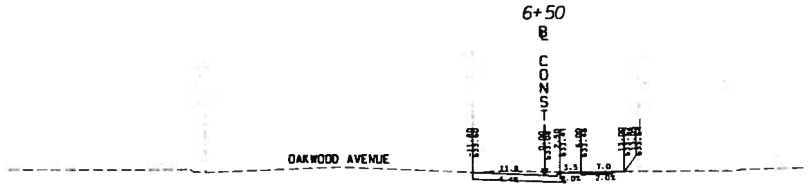
VOL.CUT: 30 CU.YD
VOL.FILL: 0 CU.YD.



AREA CUT: 3.0 SQ.YD.
AREA FILL: 0.0 SQ.YD.

6+50

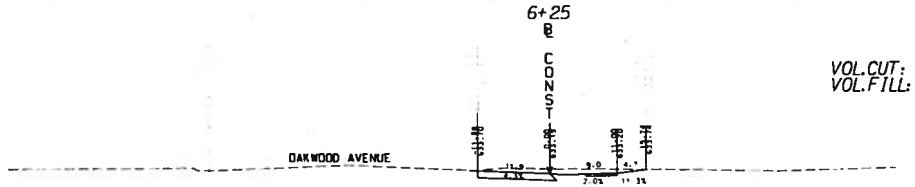
VOL.CUT: 24 CU.YD
VOL.FILL: 0 CU.YD.



AREA CUT: 2.6 SQ.YD.
AREA FILL: 0.0 SQ.YD.

6+25

VOL.CUT: 23 CU.YD
VOL.FILL: 0 CU.YD.



AREA CUT: 2.9 SQ.YD.
AREA FILL: 0.0 SQ.YD.

6+00

OAKWOOD AVENUE CROSS SECTIONS

PROJECT NO	YEAR	NO
STPHV 8540(600)	2012	94

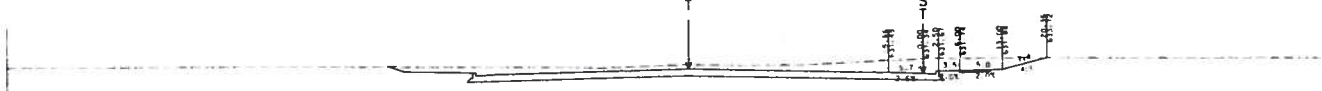
VERTICAL SCALE: 20, 10, 0

10 5 0 10 20

℄ PROJECT

℄ CONST

VOL.CUT: 41 CU.YD
VOL.FILL: 0 CU.YD.



AREA CUT: 6.2 SQ.YD.
AREA FILL: 0.0 SQ.YD.

℄ PROJECT

7+75 ℄ CONST

VOL.CUT: 85 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 14.1 SQ.YD.
AREA FILL: 0.0 SQ.YD.

7+50 ℄ CONST

VOL.CUT: 131 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 17.2 SQ.YD.
AREA FILL: 0.0 SQ.YD.

7+25 ℄ CONST

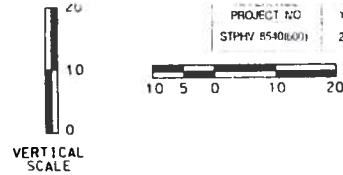
VOL.CUT: 107 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 8.3 SQ.YD.
AREA FILL: 0.0 SQ.YD.

7+00

OAKWOOD AVENUE CROSS SECTIONS

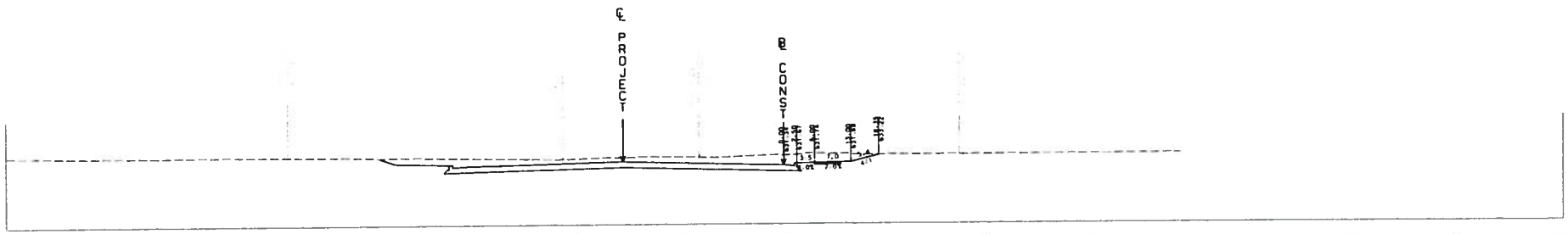
PROJECT NO	YEAR	NO
STPHV 8540(600)	2012	95

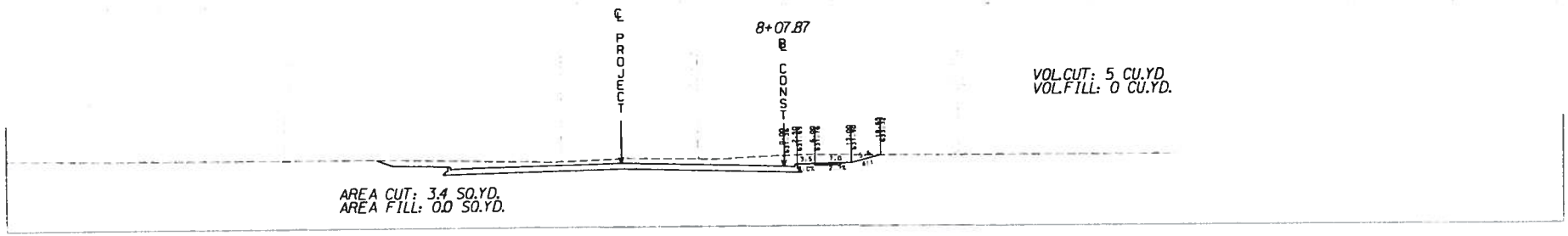


OAKWOOD AVENUE EARTHWORK TOTALS:

TOTAL BORROW EXCAVATION - 9 CU YD
TOTAL UNCLASSIFIED EXCAVATION - 561 CU YD

END WORK STA 8+28.00

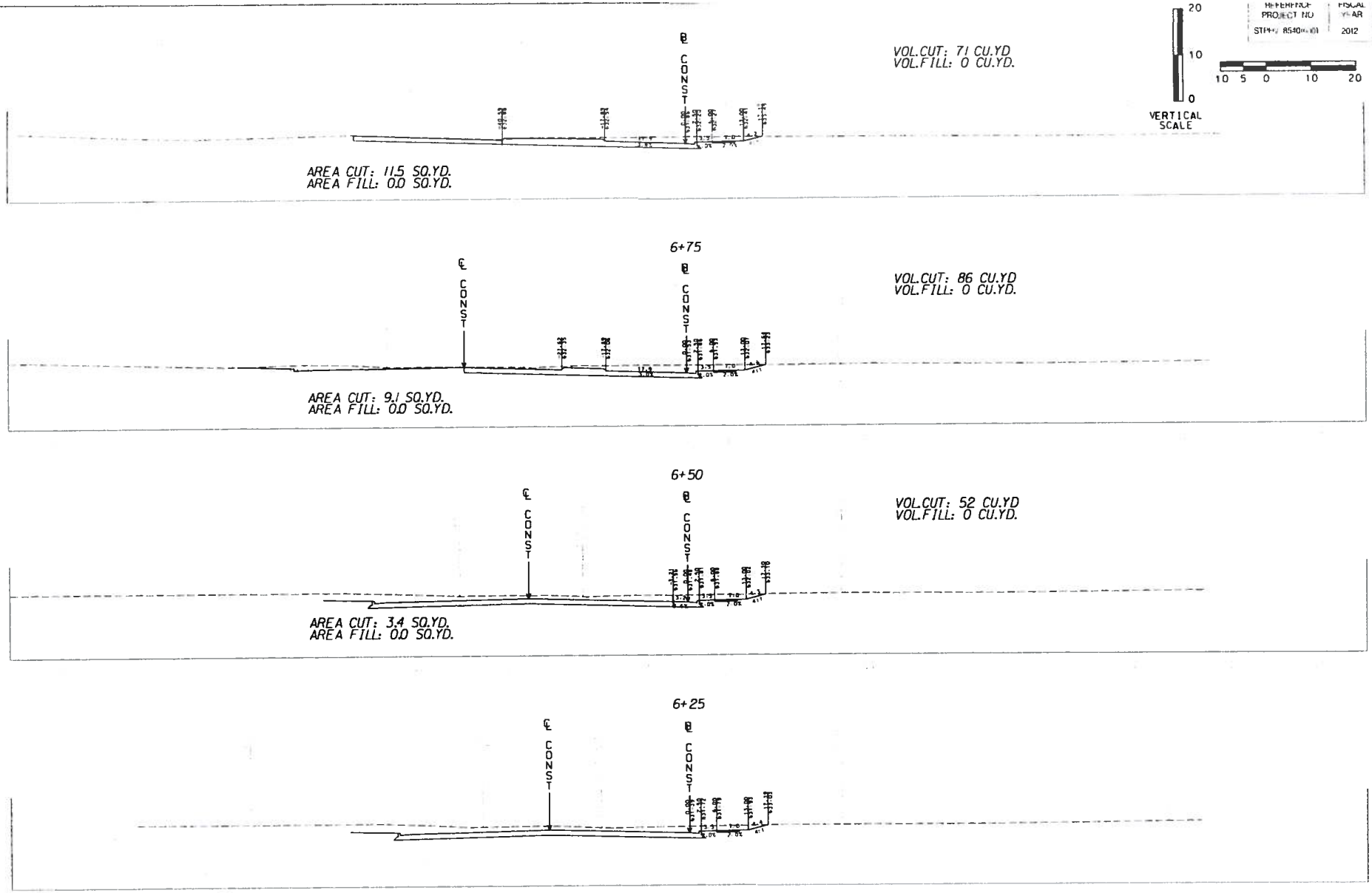




8+00

OAKWOOD AVENUE CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STP-[illegible] 8540(-)01	2012	96



CHURCH STREET RIGHT TURN LANE CROSS SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPN/ 8540(606)	2012	97

20
10
0
VERTICAL SCALE

10 5 0 10 20

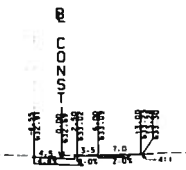
OAKWOOD AVENUE EARTHWORK TOTALS:

TOTAL BORROW EXCAVATION • 0 CU YD
TOTAL UNCLASSIFIED EXCAVATION • 247 CU YD

END WORK STA 7+50

AREA CUT: 0.7 SQ.YD.
AREA FILL: 0.0 SQ.YD.

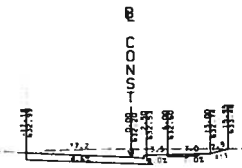
7+50



VOL.CUT: 9 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 1.4 SQ.YD.
AREA FILL: 0.0 SQ.YD.

7+25



VOL.CUT: 29 CU.YD
VOL.FILL: 0 CU.YD.

AREA CUT: 5.5 SQ.YD.
AREA FILL: 0.0 SQ.YD.

7+00

CHURCH STREET RIGHT TURN LANE CROSS SECTIONS

EARTHWORK SUMMARY

REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO
STPHV 8540(600)	2012	98

PROJECT NOTES

* 300

GN-2 NOTES:

148

UNCLASSIFIED EXCAVATION:	TOPSOIL BENEATH FILL	0	CUBIC YARDS
	CUT	19367	CUBIC YARDS
* TOTAL UNCLASSIFIED EXCAVATION:		19367	CUBIC YARDS
TOTAL BORROW EXCAVATION:		0	CUBIC YARDS
TOTAL MUCK EXCAVATION:		0	CUBIC YARDS
TOTAL UNDERWATER EMBANKMENT:		0	CUBIC YARDS
TOPSOIL FROM STOCKPILES:	TOPSOIL ON CUT	1574	CUBIC YARDS
	TOPSOIL BENEATH FILL	0	CUBIC YARDS
TOTAL TOPSOIL:		1574	CUBIC YARDS
TOTAL TOPSOIL REQUIRED FOR PROJECT:		1574	CUBIC YARDS