

— WATER CONNECTION
— SEWER CONNECTION

HENDERSON ROAD

C-1	C-2	C-3
PI Sta. 38+05.06 Δ = 13' 10" 40.0' (RT) D = 7' 38" 22.0' L = 112.50' T = 86.63' R = 750.00' e = 0.32 V = 30 mph	PI Sta. 40+88.01 Δ = 11' 15" 18.0' (LT) D = 27' 50" 05.4' L = 342.00' T = 197.08' R = 275.00' e = 0.4 V = 25 mph	PI Sta. 44+55.95 Δ = 46' 35" 41.0' (RT) D = 20' 50" 05.4' L = 223.31' T = 118.61' R = 275.00' e = 0.4 V = 25 mph

ALPHAWOOD

C-4	C-5
PI Sta. 147+93 Δ = 48' 48" 13.6' (LT) D = 38' 11" 49.9' L = 127.71' T = 68.05' R = 150.00' e = 0.4 V = 20 mph	PI Sta. 15+57.30 Δ = 56' 53" 10.8' (RT) D = 25' 27" 53.2' L = 223.31' T = 121.88' R = 225.00' e = 0.4 V = 25 mph

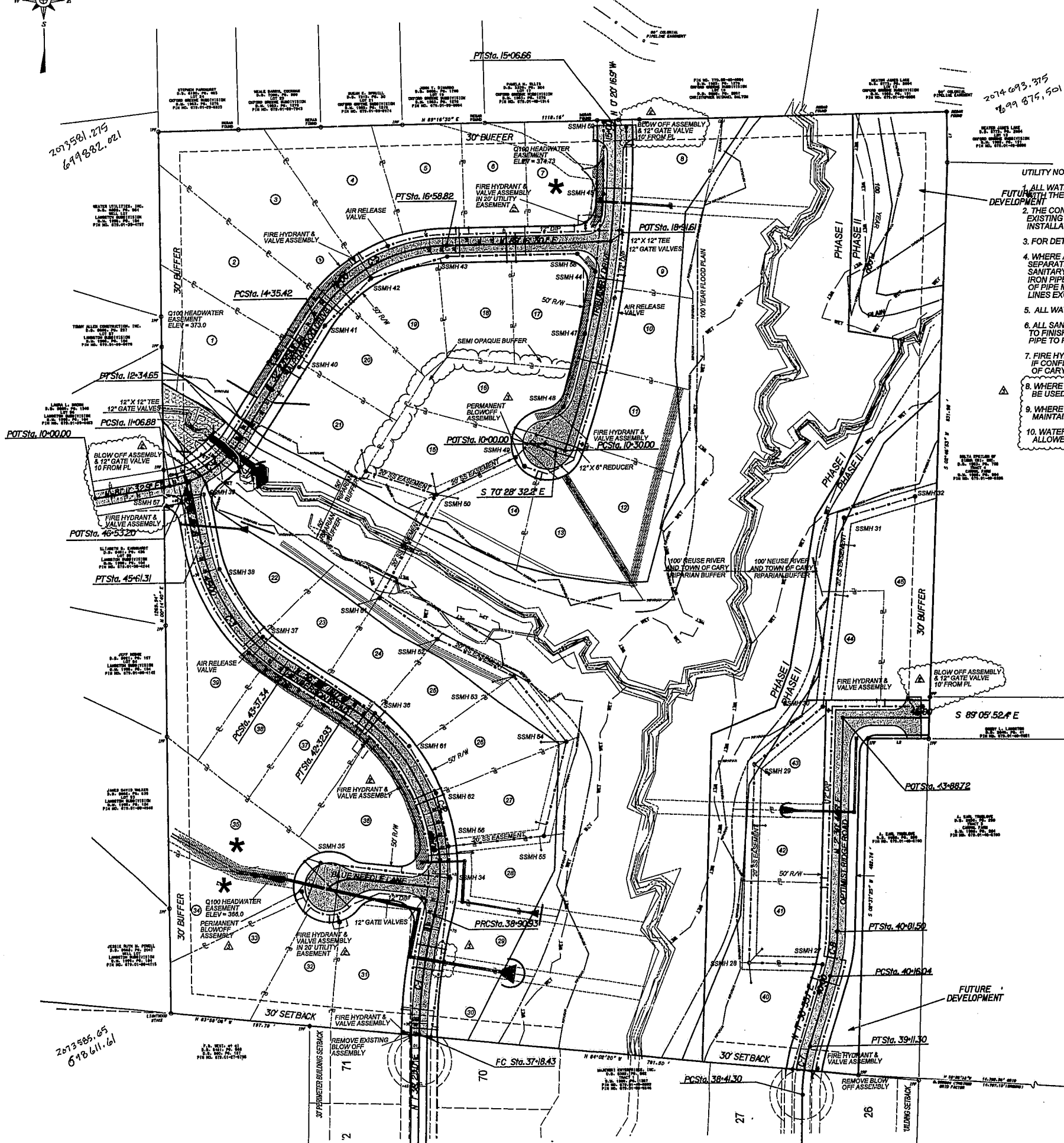
OPTIMIST RIDGE

C-7	C-8
PI Sta. 38+76.53 Δ = 16' 02" 34.1' (RT) D = 22' 55" 05.9' L = 127.71' T = 35.23' R = 250.00' e = NC V = 25 mph	PI Sta. 40+49.96 Δ = 15' 00" 10.5' (LT) D = 22' 55" 05.9' L = 127.71' T = 32.92' R = 250.00' e = NC V = 25 mph

NO.	DATE	BY	REVISION
1	8-19-02	CEK	REVISED SUPERELEVATION
2	10-2-02	CEK	REVISED FIRE HYD. EASEMENTS & ADA IMPROVEMENTS
3	10-18-02	CEK	REVISIONS PER TOWN OF CARY

TRIBUTARY LANE

C-6
PI Sta. 18+70.75 Δ = 19' 51" 14.5' (RT) D = 4' 10" 01.1' L = 47.666' T = 24.075' R = 275.00' e = NC V = 25 mph



UTILITY NOTES

1. ALL WATER LINE & SEWER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF CARY'S STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL VERIFY LOCATIONS, ELEVATIONS, AND SIZES OF EXISTING PUBLIC UTILITIES PRIOR TO ANY EXCAVATIONS, GRADING OR INSTALLATION OF UNDERGROUND UTILITIES ON OR ADJACENT TO THE SITE.
3. FOR DETAILS SEE SHEET D-1 & D-2
4. WHERE A WATER MAIN AND A SANITARY OR STORM SEWER CROSS AND THE VERTICAL SEPARATION IS LESS THAN 18" OR THE WATER LINE PASSES UNDER THE SANITARY OR STORM SEWER, THE ENTIRE LEG OF THE SEWER LINE SHALL BE DUCTILE IRON PIPE EQUIVALENT TO WATER MAIN STANDARDS, A TRANSITION OF PIPE MATERIAL SHALL NOT OCCUR BETWEEN MANHOLES OR SANITARY SEWER LINES EXCEPT AT INSIDE DROP MANHOLES.
5. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM COVER OF 4 FT.
6. ALL SANITARY SEWER MAINS SHALL HAVE 4 FT. OF COVER FROM TOP OF PIPE TO FINISHED SUBGRADE WHEN UNDER A ROADWAY, AND 3 FT. FROM TOP OF PIPE TO FINISHED GRADE WHEN OUTSIDE A ROADWAY.
7. FIRE HYDRANTS SHALL CONFORM TO WAKE COUNTY STANDARDS SECTION 3-4-7(D). IF CONFLICTS EXIST BETWEEN WAKE COUNTY AND TOWN OF CARY STANDARDS, TOWN OF CARY STANDARDS SHALL BE USED.
8. WHERE WATERLINE CROSSES UNDER RCP STORM PIPES, RESTRAIN JOINT PIPE SHALL BE USED.
9. WHERE WATERLINE CROSSES UNDER 36" RCP A MINIMUM SEPARATION OF 18" SHALL BE MAINTAINED BETWEEN THE 12" WATERLINE AND THE 36" RCP.
10. WATER SERVICE TAPS SHALL BE BY BORE ONLY. NO CUTS IN EXISTING PAVEMENT SHALL BE ALLOWED.

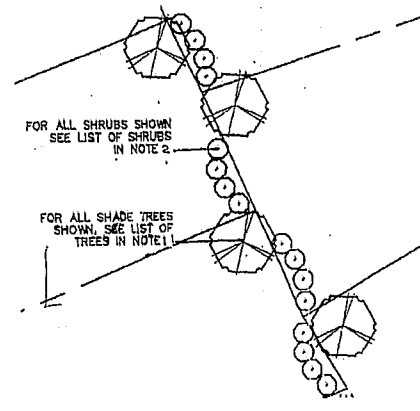
NOTES

1. THE ENGINEER DOES NOT GUARANTEE THAT ALL EXISTING FACILITIES SUCH AS PIPELINES, ELECTRICAL LINES, CONDUIT, TELEPHONE CABLE, SERVICE CONNECTIONS, OR OTHER FACILITIES ARE SHOWN ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL UTILITIES LOCATED BY THEIR RESPECTIVE OWNERS, FIELD MARK THE UTILITY LOCATIONS, AND PROTECT ALL SUCH EXISTING FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR IS FULLY RESPONSIBLE FOR NOTIFYING ALL UTILITY OWNERS IN ACCORDANCE WITH NC GENERAL STATUTES, CHAPTER 87, ARTICLE 8, THE UNDERGROUND DAMAGE PREVENTION ACT.
2. BASE MAPPING IS FROM AN ACTUAL FIELD SURVEY PERFORMED BY KENNETH CLOSE INC.
3. TYPICAL STREET TREE PLANTING: 1 TREE PER 40 LF
4. THE INTERSECTION OF OPTIMIST RIDGE ROAD AND TRUVELOVE LANE SHALL BE STOP SIGN CONTROLLED AS A TWO WAY STOP.
5. STREET LIGHTING WILL BE INSTALLED WHICH EXCEEDS THE STANDARD TOWN OF CARY REQUIREMENTS FOR RESIDENTIAL STREETS WHERE SAG VERTICAL CURVES HAVE BEEN REDUCED, PROVIDED THAT STREET LIGHTS ARE OPERATIONAL PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY ON THAT STREET. THE MINIMUM ALLOWABLE LENGTH OF SAG VERTICAL CURVES, WHERE A STREET LIGHT IS IN THE SAG, SHALL BE 20K FOR RESIDENTIAL LOCAL STREETS.
6. RIPARIAN BUFFER LINES AND/OR 100 YEAR FLOODPLAIN BOUNDARIES SHALL SERVE AS PROPERTY BOUNDARIES. NO INDIVIDUAL LOTS SHALL EXTEND INTO EITHER THE RIPARIAN BUFFER OR 100 YEAR FLOOD PLAIN.
7. NO BUILDINGS OR STRUCTURES SHALL BE PLACED IN ANY TOWN OF CARY EASEMENTS.

LOTS 7, 34-35

THE BUILDER MAY NEED TO OBTAIN A FLOOD HAZARD AREA USE PERMIT FROM WAKE COUNTY ENVIRONMENTAL SERVICES; THE BUILDER'S ENGINEER, ARCHITECT, AND/OR LAND SURVEYOR (AS APPROPRIATE) MUST CERTIFY THAT ALL FLOOD HAZARD REQUIREMENTS ARE MET.

THERE SHALL BE NO FILLING OR THE ERECTION OF PERMANENT STRUCTURES IN THE AREAS OF WAKE COUNTY FLOOD HAZARD SOILS OR FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) 100-YEAR FLOOD ZONES UNTIL A FLOOD STUDY IS APPROVED BY WAKE COUNTY AND/OR FEMA.

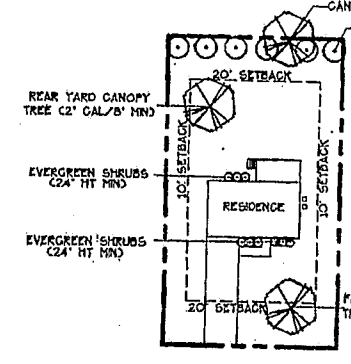


TYPICAL REAR YARD LANDSCAPE PLAN FOR YARDS WITHOUT ADEQUATE EXISTING VEGETATION

SCALE: 1" = 30'
NOTE: AS SHOWN EACH LOT SHALL HAVE A MINIMUM OF ONE SHADE TREE AND FOUR MEDIUM SIZE SHRUBS WHOSE EXISTING VEGETATION IS NOT SUFFICIENT. PLANT MATERIAL TO BE USED IS LISTED IN NOTES 1 & 2. PLANTING PLAN AS SHOWN MAY CHANGE TO ACCOMMODATE INDIVIDUAL LOTS.

NOTE 1: TREES TO BE USED MAY BE CHOSEN FROM THE FOLLOWING LIST: ACER RUBRUM, ACER SACCHARUM, 'LEGACY', QUERCUS HEMISPHERICA, QUERCUS PHELLOS, QUERCUS RUBRUM, ULMUS PARVIFOLIA, PLATANUS X ACERIFOLIA

NOTE 2: SHRUBS TO BE USED IN THOSE AREAS WITHOUT SUFFICIENT EXISTING VEGETATION BETWEEN ADJACENT REAR YARDS MAY BE CHOSEN FROM THE FOLLOWING: MYRTICA CERIFERA, VIBURNUM JAPONICUM, LIGUSTRUM JAPONICUM 'RECURVIFOLIUM', ILEX CORNUTA 'NEEDLEPOINT', AZALEA X GEORGE TABER, ABELIA X GRANDIFLORA.



LOT DETAIL 1"=40'

APPROVED
TOWN OF CARY

Approved By: JDR Date: 10-10-02
Planning: RS Date: 10-21-02
Engineering: TS Date: 10-17-02



PROJECT NO:	AJ002
DATE:	8-2-02
DRAWN:	CEK
CHECKED:	CEK
SCALE:	1" = 80'

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THE PARK AT LANGSTON

SITE, ROADWAY AND UTILITY LAYOUT

SHEET
C-1
SHEET OF