

E 11067750

NOTE: FAILURE TO COMPLY WITH THE CONSTRUCTION PROCEDURE REQUIREMENTS LISTED BELOW MAY RESULT IN THE COSTLY REMOVAL OF STRUCTURES, TIME DELAYS OR THE ISSUANCE OF A STOP WORK ORDER.

CONSTRUCTION PROCEDURE REQUIREMENTS

- CITY INSPECTIONS - TO INSURE THE COORDINATION OF TIMELY AND PROPER INSPECTIONS, A PRE-CONSTRUCTION CONFERENCE SHALL BE INITIATED BY THE CONTRACTOR WITH THE CITY BUILDING INSPECTIONS DEPARTMENT. ALL (703) 981-2222 TO ARRANGE A CONFERENCE AT LEAST THREE (3) DAYS PRIOR TO ANTICIPATED CONSTRUCTION.
- STREET OPENING PERMIT - PRIOR TO THE COMMENCEMENT OF ANY DIGGING, ALTERATION OR CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY (STREETS, ALLEYS, PUBLIC EASEMENTS), A STREET OPENING PERMIT SHALL BE APPLIED FOR AND OBTAINED BY THE CONTRACTOR FROM THE CITY OF ROANOKE.
- PLANS AND PERMITS - A COPY OF THE PLANS APPROVED BY THE CITY (SIGNED BY THE PROPER CITY OFFICIALS) AND ALL PERMITS ISSUED BY THE CITY SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES OF ONGOING CONSTRUCTION.
- LOCATION OF UTILITIES - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
- CONSTRUCTION ENTRANCE - THE CONTRACTOR SHALL INSTALL AN ADEQUATE CONSTRUCTION ENTRANCE FOR ALL CONSTRUCTION RELATED EGRESS FROM THE SITE. SIZE AND COMPOSITION OF CONSTRUCTION ENTRANCE SHALL BE DETERMINED BY THE CITY SITE PLAN INSPECTOR.
- STREETS TO REMAIN CLEAN - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT THE PUBLIC STREET ADJACENT TO THE CONSTRUCTION ENTRANCE REMAINS FREE OF MUD, DIRT, DUST AND/OR ANY TYPE OF CONSTRUCTION MATERIALS OR LITTER AT ALL TIMES.
- BARRICADES/DITCHES - THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL EXCAVATED DITCHES AND SHALL FURNISH AND ENSURE THAT ALL BARRICADES PROPER AND NECESSARY FOR THE SAFETY OF THE PUBLIC ARE IN PLACE.
- SEWER AND PAVEMENT REPLACEMENT - CONSTRUCTION OF SANITARY SEWERS AND THE REPLACEMENT OF PAVEMENT SHALL BE IN ACCORDANCE WITH APPROVED STANDARDS AND SPECIFICATIONS OF THE CITY OF ROANOKE.
- APPROVED PLANS/CONSTRUCTION CHANGES - ANY CHANGE OR VARIATION FROM CONSTRUCTION DESIGN AS SHOWN ON THE OFFICIALLY APPROVED PLANS SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO SAID CHANGES OR VARIATION IN CONSTRUCTION BEING MADE.
- FINAL ACCEPTANCE/CITY - THE DEVELOPER OR CONTRACTOR SHALL FURNISH THE CITY OF ROANOKE'S ENGINEERING DEPARTMENT WITH A FINAL CORRECT SET OF AS-BUILT PLANS PRIOR TO FINAL ACCEPTANCE BY THE CITY.

DROP INLET SCHEDULE

INLET #	TYPE	TOP ELEV.	INVERT IN	INVERT OUT	LENGTH	INLET #	TYPE	TOP ELEV.	INVERT IN	INVERT OUT	LENGTH
100	MH	910.864	903.11 (4")	903.40 (42")	NA	200	MH	913.234	901.51 (30")	901.41 (30")	NA
101	D-1	909.258	903.50 (18")	903.40 (42")	NA	201	D-1	909.704	901.70 (30")	901.76 (35")	NA
102	D-1	908.444	903.66 (24")	903.66 (24")	NA	202	D-38	914.504	903.71 (18")	903.61 (24")	8'
103	D-1	913.504	903.75 (18")	903.65 (50")	NA	203	D-38	914.504	903.40 (18")	903.40 (18")	NA
104	D-1	907.504	904.22 (24")	904.25 (24")	NA	204	D-38	913.504	910.00 (12")	907.02 (18")	12'
105	D-1	907.504	904.25 (24")	904.25 (24")	NA	205	D-38	913.504	910.00 (12")	911.25 (12")	8'
106	D-38	917.754	910.00 (18")	905.74 (18")	6'	206	D-38	913.504	910.00 (12")	910.00 (12")	NA
107	D-38	917.754	912.00 (18")	911.80 (18")	NA	207	D-38	917.754	904.25 (18")	904.25 (18")	NA
108	D-38	919.324	914.75 (18")	913.50 (18")	NA	208	D-1	908.504	902.43 (24")	902.33 (30")	NA
109	D-38	918.804	915.50 (18")	914.80 (12")	8'	209	D-1	907.754	903.41 (18")	903.31 (24")	NA
110	D-38	919.504	915.40 (18")	915.40 (18")	10'	210	D-1	907.754	904.25 (18")	904.25 (18")	NA
111	D-38	922.254	918.50 (12")	918.50 (12")	10'						
112	D-38	924.204	920.00 (12")	921.80 (12")	8'						
113	D-1	926.504	923.00 (12")	923.00 (12")	NA						

SANITARY MANHOLE SCHEDULE

MH#	TOP ELEV.	INVERT IN	INVERT OUT
300	911.684	902.33 (18")	902.23
301	908.334	902.81 (18")	902.71 (18")
302	909.004	903.40 (18")	903.30 (18")
303	908.004	903.40 (18")	903.30 (18")
304	927.424	909.50 (4")	908.40 (8")
305	928.774	925.50 (6")	925.00 (8")
306	911.134	903.70 (6")	903.60
307	917.354	908.30 (4")	908.20 (6")
308	909.804	906.43 (6")	903.30 (6")

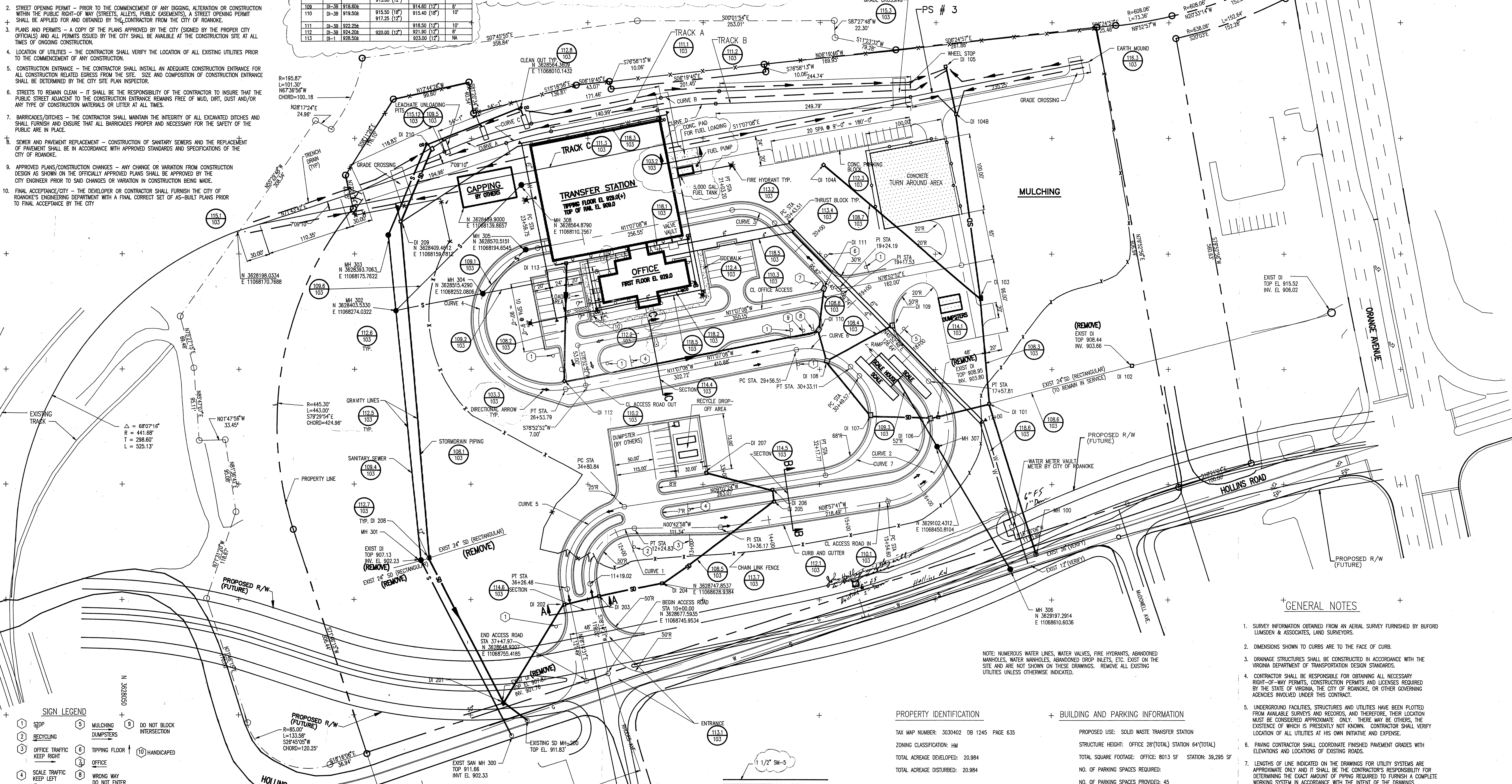
RAILWAY CURVES

CURVE A	CURVE B	CURVE C	CURVE D
$\Delta = 1408'17"$ $R = 478.00'$ $T = 59.29'$ $L = 117.95'$	$\Delta = 0905'46"$ $R = 478.00'$ $T = 38.02'$ $L = 75.89'$	$\Delta = 0709'25"$ $R = 478.00'$ $T = 28.89'$ $L = 58.69'$	$\Delta = 0905'46"$ $R = 478.00'$ $T = 38.02'$ $L = 75.89'$

NOTE: ALL TURNOUTS ARE #8 WITH 16-6" SWITCHES

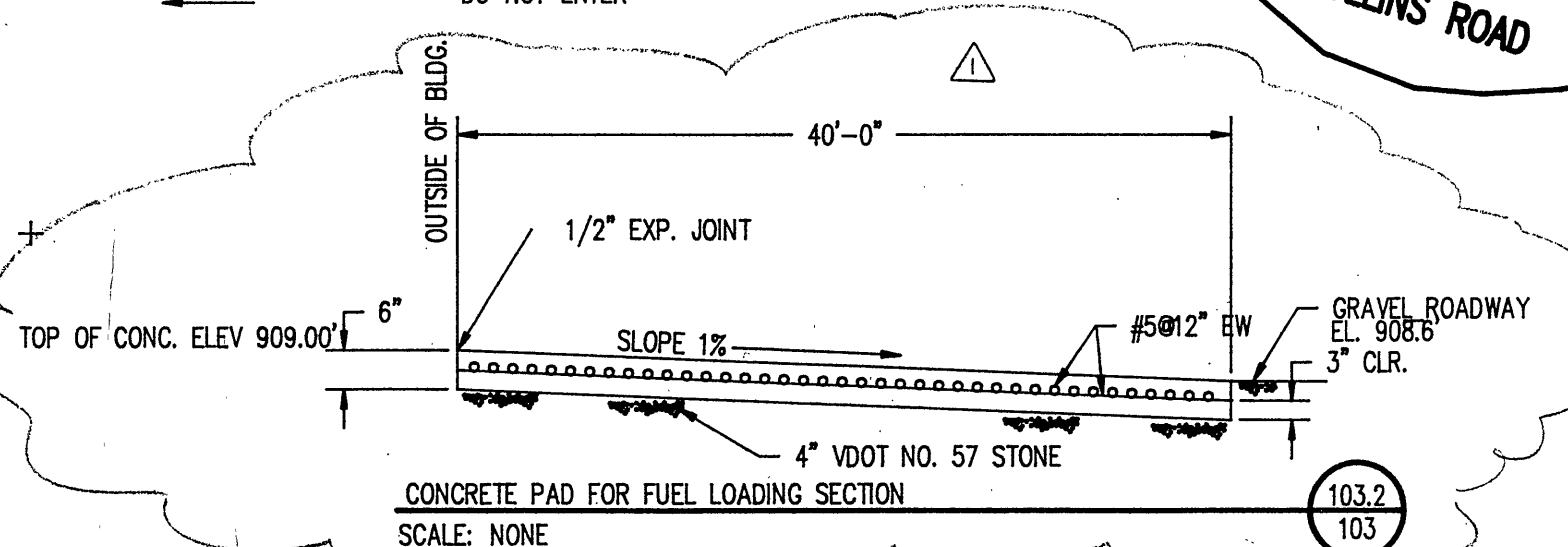
ROADWAY CURVE DATA

CURVE 1	CURVE 2	CURVE 3	CURVE 4	CURVE 5	CURVE 6	CURVE 7
$\Delta = 101'02'31"$ $R = 60.00'$ $T = 72.84'$ $L = 103.81'$	$\Delta = 129'09'31"$ $R = 83.00'$ $T = 179.26'$ $L = 103.19'$	$\Delta = 56'59'55"$ $R = 60.00'$ $T = 32.58'$ $L = 58.69'$	$\Delta = 180'11'15"$ $R = 83.50'$ $T = 57.62'35"$ $L = 294.04'$	$\Delta = 92'43'05"$ $R = 90.00'$ $T = 94.37'$ $L = 143.64'$	$\Delta = 56'59'55"$ $R = 77.00'$ $T = 41.81'$ $L = 76.60'$	$\Delta = 129'09'31"$ $R = 77.00'$ $T = 148.42'$ $L = 186.20'$



SIGN LEGEND

- 1 STOP
- 2 RECYCLING
- 3 OFFICE TRAFFIC KEEP RIGHT
- 4 SCALE TRAFFIC KEEP LEFT
- 5 MULCHING
- 6 TIPPING FLOOR
- 7 OFFICE
- 8 WRONG WAY DO NOT ENTER
- 9 DO NOT BLOCK INTERSECTION
- 10 HANDICAPPED



OLVER INCORPORATED
Consulting Engineers-Environmental Laboratories

1116 SOUTH MAIN STREET
BLACKSBURG, VIRGINIA 24060
(703) 552-5548

Designed: CAT

Drawn: CAT

Checked: RMF

Scale: 1"=50'

Job No. 11514

Date: JULY 24, 1992

ROANOKE VALLEY RESOURCE AUTHORITY
SOLID WASTE TRANSFER STATION

DIMENSIONAL LAYOUT AND UTILITIES

PROPERTY IDENTIFICATION

TAX MAP NUMBER: 3030402 DB 1245 PAGE 635
ZONING CLASSIFICATION: HM
TOTAL ACREAGE DEVELOPED: 20.984
TOTAL ACREAGE DISTURBED: 20.984

BUILDING AND PARKING INFORMATION

PROPOSED USE: SOLID WASTE TRANSFER STATION
STRUCTURE HEIGHT: OFFICE 28'(TOTAL) STATION 64'(TOTAL)
TOTAL SQUARE FOOTAGE: OFFICE: 8013 SF STATION: 39,295 SF
NO. OF PARKING SPACES REQUIRED:
NO. OF PARKING SPACES PROVIDED: 45
NO. OF EMPLOYEES ON THE SITE: 14

NOTE: THIS PROPERTY LIES WITHIN THE LIMITS OF THE 100-YEAR FLOOD BOUNDARY AS DESIGNATED BY THE CURRENT FEMA MAPS.

APPROVED:

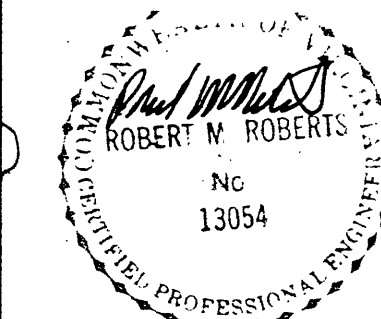
AGENT TO THE PLANNING COMMISSION

CITY ENGINEER - CITY OF ROANOKE, VIRGINIA

DATE

DATE

- SURVEY INFORMATION OBTAINED FROM AN AERIAL SURVEY FURNISHED BY BUFORD LUMSDEN & ASSOCIATES, LAND SURVEYORS.
- DIMENSIONS SHOWN TO CURBS ARE TO THE FACE OF CURB.
- DRAINAGE STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHT-OF-WAY PERMITS, CONSTRUCTION PERMITS AND LICENSES REQUIRED BY THE STATE OF VIRGINIA, THE CITY OF ROANOKE, OR OTHER GOVERNING AGENCIES INVOLVED UNDER THIS CONTRACT.
- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE, THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES AT HIS OWN INITIATIVE AND EXPENSE.
- PAVING CONTRACTOR SHALL COORDINATE FINISHED PAVEMENT GRADES WITH ELEVATIONS AND LOCATIONS OF EXISTING ROADS.
- LENGTHS OF LINE INDICATED ON THE DRAWINGS FOR UTILITY SYSTEMS ARE APPROXIMATE ONLY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR DETERMINING THE EXACT AMOUNT OF PIPING REQUIRED TO FURNISH A COMPLETE WORKING SYSTEM IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. THE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH ALL APPLICABLE MEASURES CONTAINED THEREIN WHICH MAY BE PERTINENT TO THIS PROJECT.
- THE CONTRACTOR SHALL VERIFY ALL LINES, LEVELS, GRADES, ELEVATIONS AND DIMENSIONS SHOWN ON THESE PLANS. ANY ERRORS, OMISSIONS, OR DISCREPANCIES DISCOVERED SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR RESOLUTION. WORK ON THE AFFECTED PORTION OF THE PROJECT SHALL BE STOPPED UNTIL SUCH ERRORS, OMISSIONS, OR DISCREPANCIES HAVE BEEN RESOLVED TO THE SATISFACTION OF THE ENGINEER.



Sheet No.

103

File No.

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