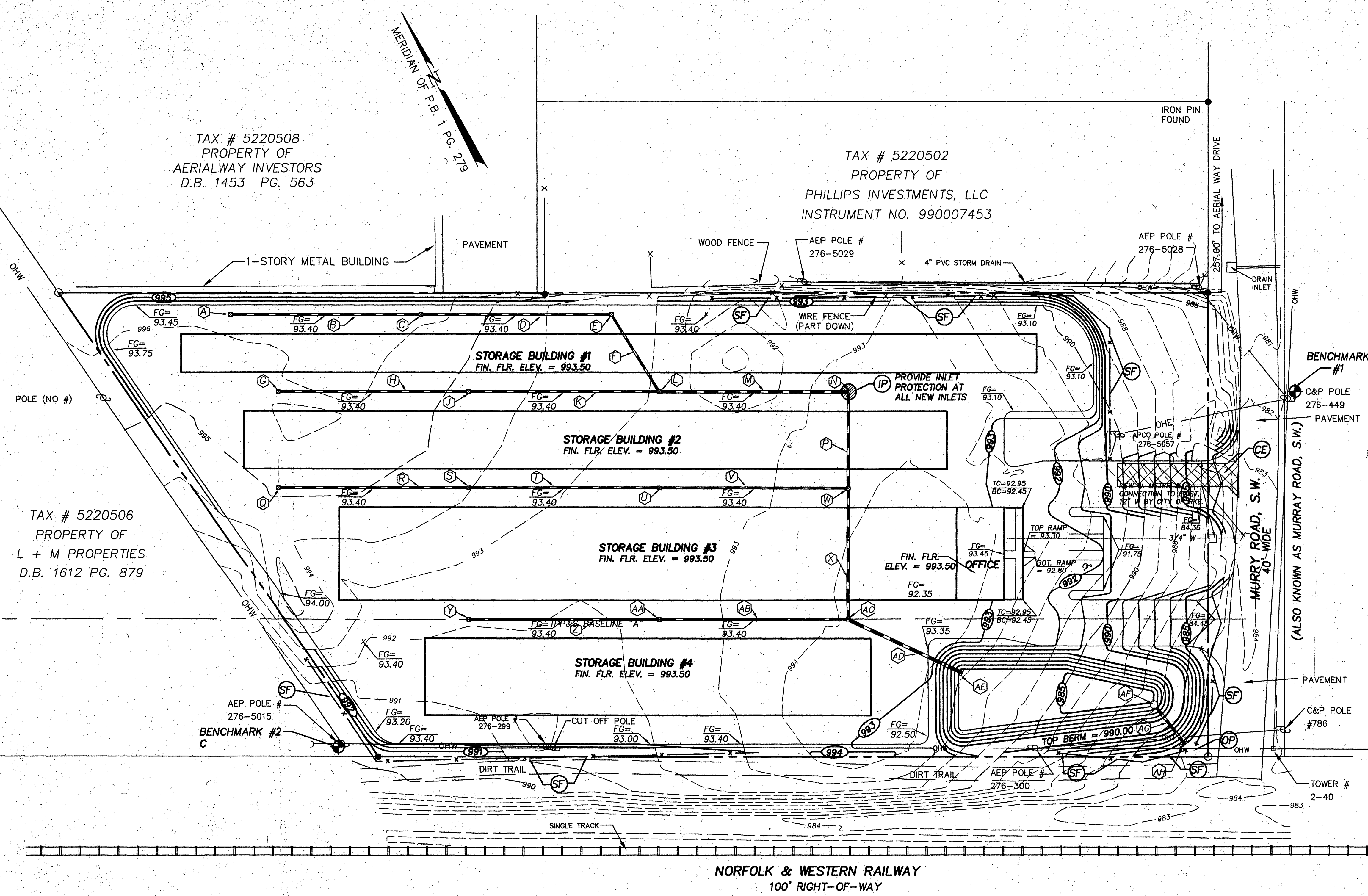




- EROSION AND SEDIMENT CONTROL MEASURES:**
- (PS) PERMANENT SEEDING PER CHART BELOW COMPLY W/ VA. EROSION & SEDIMENT CONTROL (VESCH) STD. & SPEC. 3.32
 - (CE) PROVIDE STONE CONSTRUCTION ENTRANCE MEETING VESCH STD. & SPEC. 3.02
 - (SF) PROVIDE SILT FENCE BARRIER MEETING VESCH STD. & SPEC. 3.05
 - (IP) PROVIDE STORM DRAIN INLET PROTECTION MEETING VESCH STD. & SPEC. 3.07
 - (OP) PROVIDE RIP-RAP OUTLET PROTECTION MEETING VESCH STD. & SPEC. 3.18

- GRADING NOTES:**
- CLEAR AND GRUB SITE PRIOR TO GRADING OPERATIONS.
 - STRIP TOPSOIL FROM AREA TO BE GRADED AND STOCKPILE ON SITE.
 - PLACE FILL MATERIAL IN 8" MAX. LOOSE LIFTS AND COMPACT TO 95% MAX. DRY DENSITY, STD. PROCTOR.
 - NO CUT OR FILL SLOPE SHALL EXCEED 2H:1V.
 - FINISH GRADE W/ 6" MIN. TOPSOIL ON ALL AREAS NOT TO BE PAVED / ROOFED AND SEED PER CHART BELOW.

- GENERAL EROSION & SEDIMENT CONTROL NOTES**
- ALL SOIL EROSION & SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
 - THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE FIELD CONDITIONS ARE ENCOUNTERED THAT WARRANT SUCH MODIFICATIONS.
 - ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE PLACED IN ADVANCE OF THE WORK BEING PERFORMED, AS FAR AS PRACTICAL.
 - IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN PROVIDED.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT PROPERTY AT THE END OF EACH DAY'S WORK.
 - FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS, REFER TO THE VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

BENCHMARK #1: RR SPIKE SET ±1' ABOVE GROUND IN C&P POLE #276-449. ELEV. = 983.30

BENCHMARK #2: RR SPIKE SET ±1' ABOVE GROUND IN APCO POLE 276-5015. ELEV. = 991.66

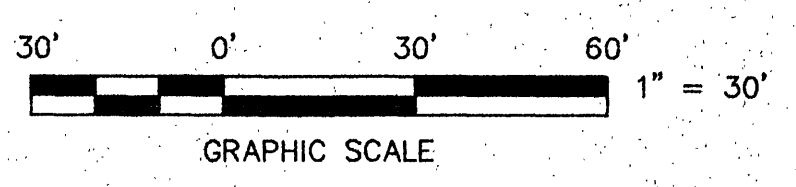
- STORM DRAIN NOTES AND SCHEDULE**
- (A) PROVIDE 22"x22" CONC. DROP INLET W/ CAST IRON GRATE TOP = 993.00 12" INV. IN = 991.00 12" INV. OUT = 991.00
 - (B) PROVIDE 98.0 L.F. 12" RCP @ 1.00% INV. IN = 991.00 INV. OUT = 990.02
 - (C) PROVIDE 22"x22" CONC. DROP INLET W/ CAST IRON GRATE TOP = 993.00 12" INV. IN = 990.02 12" INV. OUT = 989.98
 - (D) PROVIDE 98.0 L.F. 12" RCP @ 1.00% INV. IN = 989.98 INV. OUT = 989.00
 - (E) PROVIDE 22"x22" CONC. DROP INLET W/ CAST IRON GRATE TOP = 993.00 12" INV. IN = 989.00 12" INV. OUT = 988.96
 - (F) PROVIDE 45.2 L.F. 12" RCP @ 1.00% INV. IN = 988.96 INV. OUT = 988.51
 - (G) PROVIDE 22"x22" CONC. DROP INLET W/ CAST IRON GRATE TOP = 993.00 12" INV. IN = 991.00 12" INV. OUT = 991.00
 - (H) PROVIDE 98.0 L.F. 12" RCP @ 1.00% INV. IN = 991.00 INV. OUT = 990.02
 - (I) PROVIDE 22"x22" CONC. DROP INLET W/ CAST IRON GRATE TOP = 993.00 12" INV. IN = 990.02 12" INV. OUT = 989.98
 - (K) PROVIDE 98.0 L.F. 12" RCP @ 1.00% INV. IN = 989.98 INV. OUT = 989.00

- (L) PROVIDE 3' DIA. CONC. DROP INLET W/ CAST IRON GRATE TOP = 993.00 12" INV. IN (N) = 988.51 12" INV. IN (W) = 989.00 15" INV. OUT = 988.47
- (M) PROVIDE 98.0 L.F. 15" RCP @ 1.00% INV. IN = 988.47 INV. OUT = 987.49
- (N) PROVIDE 22"x22" CONC. DROP INLET W/ CAST IRON GRATE TOP = 993.00 15" INV. IN = 987.49 12" INV. OUT = 987.45
- (P) PROVIDE 48.0 L.F. 15" RCP @ 1.00% INV. IN = 987.45 INV. OUT = 986.97
- (Q) PROVIDE 22"x22" CONC. DROP INLET W/ CAST IRON GRATE TOP = 993.00 12" INV. IN = 990.02 12" INV. OUT = 991.00
- (R) PROVIDE 98.0 L.F. 12" RCP @ 1.00% INV. IN = 991.00 INV. OUT = 990.02
- (S) PROVIDE 22"x22" CONC. DROP INLET W/ CAST IRON GRATE TOP = 993.00 12" INV. IN = 989.00 12" INV. OUT = 988.98
- (T) PROVIDE 98.0 L.F. 12" RCP @ 1.00% INV. IN = 989.98 INV. OUT = 989.00
- (U) PROVIDE 22"x22" CONC. DROP INLET W/ CAST IRON GRATE TOP = 993.00 12" INV. IN = 989.00 12" INV. OUT = 988.96
- (V) PROVIDE 98.0 L.F. 12" RCP @ 1.00% INV. IN = 988.96 INV. OUT = 987.98

- (W) PROVIDE 3' DIA. CONC. DROP INLET W/ CAST IRON GRATE TOP = 993.00 15" INV. IN (N) = 986.97 12" INV. IN (W) = 987.98 15" INV. OUT = 986.93
- (X) PROVIDE 68.0 L.F. 15" RCP @ 1.03% INV. IN = 986.93 INV. OUT = 986.23
- (Y) PROVIDE 22"x22" CONC. DROP INLET W/ CAST IRON GRATE TOP = 993.00 12" INV. IN = 990.02 12" INV. OUT = 991.00
- (Z) PROVIDE 98.0 L.F. 12" RCP @ 1.00% INV. IN = 991.00 INV. OUT = 990.02
- (AA) PROVIDE 22"x22" CONC. DROP INLET W/ CAST IRON GRATE TOP = 993.00 12" INV. IN = 990.02 12" INV. OUT = 989.98
- (AB) PROVIDE 98.0 L.F. 12" RCP @ 1.00% INV. IN = 989.98 INV. OUT = 989.00
- (AC) PROVIDE 3' DIA. CONC. DROP INLET W/ CAST IRON GRATE TOP = 993.00 15" INV. IN (N) = 986.23 12" INV. IN (W) = 989.00 18" INV. OUT = 986.19
- (AD) PROVIDE 64.0 L.F. 18" RCP @ 1.00% INV. IN = 986.19 INV. OUT = 985.55
- (AE) PROVIDE EW-1 ENDWALL INV. OUT = 985.55
- (AF) PROVIDE 4' DIA. OPEN-TOP CONC. MANHOLE RISER RIM = 987.50 9" DIA. ORIFICE IN = 984.50 18" INV. OUT = 984.46

- (AG) PROVIDE 24.0 L.F. 18" RCP @ 1.00% INV. IN = 984.50 INV. OUT = 984.26
- (AH) PROVIDE EW-1 ENDWALL & 5 C.Y. CLASS 1 RIP-RAP AT OUTFALL

- STORM DRAIN NOTES:**
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL COMPLY WITH VDOT AND CITY OF ROANOKE STANDARDS AND SPECIFICATIONS.
 - DROP INLETS SHALL BE TRAFFIC-RATED PRE-CAST CONCRETE BY HANSON CONCRETE PRODUCTS, OR APPROVED EQUAL.
 - CONCRETE PIPE SHALL BE CLASS 3 REINFORCED.
 - ALL DROP INLETS TO HAVE WEEP HOLES AT 6"- 8" BELOW TOP.



COMMONWEALTH OF VIRGINIA

JOHN T. PARKER

CERTIFICATE NO. 5447

PROFESSIONAL ENGINEER

DESIGNED BY J.M.SCHULTHEIS

DRAWN BY J.M.S.

CHECKED BY J.T.P.

W.O. # 98-0802

N.B. JR-185

TAX NO. 522-0501

GRADING, STORM DRAINAGE, & EROSION / SEDIMENT CONTROL PLAN FOR AERIAL WAY STORAGE, L.L.C.

SHOWING A NEW STORAGE FACILITY ON 2.903 AC. PARCEL BEING LOT 1, BLOCK 5 WESTLAND

ROANOKE, VIRGINIA

SCALE: 1" = 30' DATE: 13 AUG. 1999

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