

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION
THIS PROJECT CONSISTS OF THE CONSTRUCTION OF ONE 84' X 50' FULL SIZE BASKETBALL COURT AND ONE 42' X 60' HALF SIZE BASKETBALL COURT. THIS PROJECT WILL ALSO INCLUDE THE DEMOLITION OF AN EXISTING ASPHALT VOLLEYBALL COURT, EXISTING BASKETBALL COURT AND IMPERVIOUS PICNIC AREA. THESE AREAS WILL BE FILLED WITH SOIL AS NEEDED, SEEDED AND MULCHED TO BECOME PART OF THE OVERALL LAWN AREA OF MILLER PARK. A TOTAL OF 0.73 ACRES WILL BE DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES. NO VSMF WILL BE REQUIRED FOR THIS PROJECT.

EXISTING SITE CONDITIONS
THIS SITE IS LOCATED IN MILLER PARK NEAR THE INTERSECTION OF PARK AVENUE AND LANGHORNE ROAD. THE NEW BASKETBALL COURTS WILL BE LOCATED ON AN EXISTING GRASS LAWN AREA JUST TO THE NORTH OF THE PARKING LOT ADJACENT TO PARK AVENUE. THE VOLLEYBALL AND BASKETBALL COURTS HAVE AN ASPHALT SURFACE AND ARE LOCATED APPROXIMATELY 800 FEET TO THE SOUTH OF THE NEW COURT AREA.

ADJACENT PROPERTY
THE PROJECT IS LOCATED WITHIN THE NORTHEAST PORTION OF MILLER PARK AND IS BOUND BY AN EXISTING BASEBALL FIELD TO THE EAST, OPEN LAWN AND PARKING AREA TO THE SOUTH, OPEN LAWN TO THE WEST AND PARK AVENUE TO THE NORTH. NO OFFSITE AREAS WILL BE DISTURBED AS PART OF THIS PROJECT. DEMOLISHED ASPHALT MATERIALS WILL BE DISPOSED OF IN A LEGAL MANNER.

CRITICAL AREAS
NO CRITICAL AREAS HAVE BEEN IDENTIFIED FOR THIS SITE.

OFFSITE AREAS
ALL GRADING SHALL OCCUR ON SITE. ANY ADDITIONAL BORROW OR WASTED SOIL FROM THE SITE WILL BE EITHER STOCKPILED ON SITE, OR REMOVED TO A LOCATION CHOSEN BY THE CONTRACTOR AT A LATER DATE. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT A SITE PLAN IS SUBMITTED FOR APPROVAL. FOR ANY BORROW OR FILL AREAS OFF SITE, OR AN AMENDED PLAN IS FILED FOR ANY STOCKPILE AREAS ON SITE.

SOILS
THE SOIL SURVEY MAP FOR LYNCHBURG, VIRGINIA, VERSION 10, DATED AUGUST 9, 2010 INDICATES THAT THIS SITE CONSISTS OF THE FOLLOWING SOIL TYPES: CULLEN LOAM (C, K=0.32); CULLEN CLAY LOAM (C, 0.32); LOUISBURG FINE SANDY LOAM (B, K=0.28); AND WILKES LOAM (C, K=0.28).

STORMWATER
BASED ON THE PROJECT CALCULATIONS WITH THE REMOVAL OF THE EXISTING BASKETBALL COURTS, VOLLEYBALL COURTS AND PICNIC AREA PAVING THERE WILL BE A REDUCTION 11% IN THE POLLUTANT LOAD PER WORKSHEET 3: SITUATION #3 (2.15 POUNDS PER YEAR PRE TO 1.91 POUNDS PER YEAR POST).

ADEQUATE CHANNEL
THE ULTIMATE RECEIVING CHANNEL WILL BE AN EXISTING SUB-SURFACE CONVEYANCE CHANNEL LOCATED TO THE NORTH OF THE EXISTING MILLER PARK POOL FACILITY. ALTHOUGH THE DEVELOPED PROJECT WILL BE ONLY 3.5 PERCENT OF THE TOTAL WATERSHED, THE EXISTING 21" CONCRETE PIPE WAS ANALYZED TO DETERMINE ITS CAPACITY. AS SHOWN ON THE STORM SEWER TABULATION TABLE OF SHEET C6.1 THE CONTRIBUTING RUNOFF TO THE 21" PIPE AFTER THE BASKETBALL COURTS ARE DEVELOPED WAS DETERMINED TO BE 14.59 CFS. THE PIPE WAS DETERMINED TO HAVE AS CAPACITY OF 22.40 CFS SO IS ADEQUATE TO RECEIVE RUNOFF FROM THE PROJECT.

EROSION AND SEDIMENT CONTROL
3.02 CONSTRUCTION ENTRANCE (CE) - ONE CONSTRUCTION ENTRANCE IS PROPOSED AT THE ENTRANCE TO THE SITE, AS SHOWN ON PLANS. WHERE THE ENTRANCE IS PROPOSED IN PAVED AREAS CONTRACTOR SHALL REMOVE ALL MUD, DIRT, AND DEBRIS PRIOR TO ENTERING THE PUBLIC RIGHT OF WAY. CONTRACTOR SHALL INSTALL ADDITIONAL STONE STABILIZATION AS NECESSARY TO PREVENT TRACKING ONTO THE EXISTING ROADWAY WITHIN THE LIMITS OF CONSTRUCTION.

3.05 SILT FENCE (SF) - A TEMPORARY SEDIMENT BARRIER CONSTRUCTED OF POSTS PLACED ACROSS OR AT THE TOE OF A SLOPE OR IN A MINOR DRAINAGE WAY TO INTERCEPT AND DETAIN SEDIMENT AND DECREASE FLOW VELOCITIES FROM DRAINAGE AREAS OF LIMITED SIZE.

3.07 INLET PROTECTION (IP) - STORM DRAIN INLET PROTECTION SHALL BE PLACED AT THE INLET OF ALL CURB AND DROP INLETS TO FILTER SEDIMENT-LADEN RUNOFF.

3.31 TEMPORARY SEEDING (TS) - THE CONTRACTOR IS TO IMPLEMENT TEMPORARY SEEDING IF DISTURBED LAND IS LEFT EXPOSED FOR OVER 30 DAYS AND CONSTRUCTION IS NOT COMPLETE IN THIS AREA.

3.32 PERMANENT SEEDING (PS) - ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER BY PLANTING SEED ON ROUGH-GRADED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A YEAR OR MORE OR WHERE PERMANENT, LONG-LIVED VEGETATIVE COVER IS NEEDED ON FINE-GRADED AREAS.

3.35 MULCHING (MU) - APPLICATION OF PLANT RESIDUES OR OTHER SUITABLE MATERIALS TO DISTURBED SURFACES TO PREVENT EROSION AND REDUCE OVERLAND FLOW VELOCITIES. FOSTERS PLANT GROWTH BY INCREASING AVAILABLE MOISTURE AND PROVIDING INSULATION AGAINST EXTREME HEAT OR COLD.

VEGETATIVE MEASURES
TEMPORARY SEEDING/PERMANENT STABILIZATION: SEEDING MEASURES SHALL BE TAKEN ON DISTURBED SOIL AT CUT/FILL SLOPES, SIDES OF SEDIMENT BASINS, DITCH LINES, OR AREAS OUTSIDE OF ON-GOING CONSTRUCTION PRACTICES WITHIN SEVEN (7) DAYS OF COMPLETED GRADING. ALL AREAS DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINAL GRADING. UNLESS OTHERWISE INDICATED, ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

MANAGEMENT STRATEGIES
- EROSION AND SEDIMENT CONTROL SHOULD BE DISCUSSED BETWEEN THE GRADING CONTRACTOR AND THE OWNER PRIOR TO ANY EXCAVATION SO THAT LIMITS OF CONSTRUCTION AND EROSION CONTROL METHODS ARE CLEARLY UNDERSTOOD BY BOTH PARTIES.
- CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
- THERE IS TO BE NO TRACKING OF MUD OR DIRT BY CONSTRUCTION EQUIPMENT ONTO ANY PAVED DRIVES OR ROADS.
- SEDIMENT TRAPPING MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING AND WILL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING INSTALLATION.
- SEEDING OR OTHER STABILIZATION WILL FOLLOW IMMEDIATELY AFTER GRADING.
- AREAS WHICH ARE NOT TO BE DISTURBED WILL BE CLEARLY MARKED BY FLAGS, SIGNS, ETC.
- AFTER ACHIEVING ADEQUATE STABILIZATION, THE TEMPORARY E&S CONTROLS WILL BE CLEANED UP AND REMOVED.

PERMANENT STABILIZATION
ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. MULCH (STRAW OR FIBER) WILL BE USED ON RELATIVELY FLAT AREAS. IN ALL SEEDING OPERATIONS, SEED, FERTILIZER AND LIME WILL BE APPLIED PRIOR TO MULCHING.

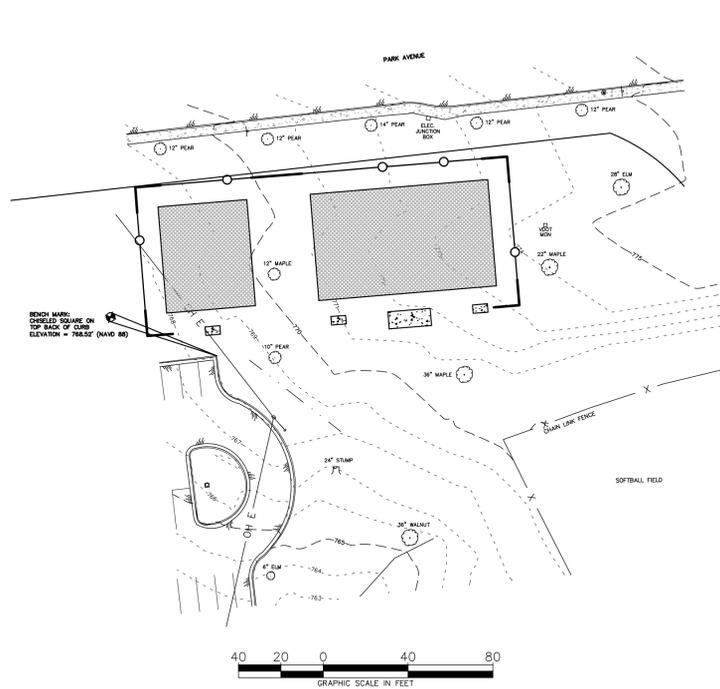
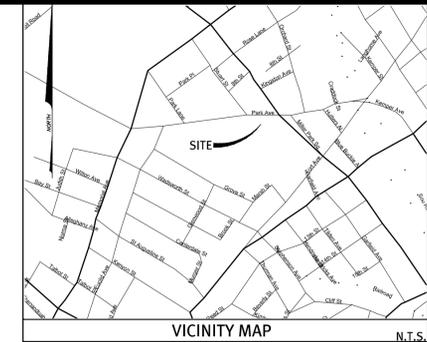
CONSTRUCTION SEQUENCE
1. INSTALL CONSTRUCTION ENTRANCE (EXISTING PARKING LOT TO SERVE AS CONSTRUCTION ENTRANCE).
2. INSTALL PERIMETER CONTROLS AND ALL APPURTENANCES AS SHOWN ON PLANS INCLUDING INLET PROTECTION AT THE POOL FACILITY.
3. CLEAR AND GRUB SITE, STRIP AND STOCKPILE TOPSOIL AND EXCESS CUT MATERIAL ALONG WITH EROSION CONTROL MEASURES.
4. BEGIN GRADING OF COURTS.
5. FINISH COURT GRADING.
6. INSTALL BASE STONE FOR NEW COURTS.
7. SPREAD TOPSOIL ON GRASS AREAS AT THE NEW COURTS AND THE DEMOLISHED COURT AREAS.
8. CONTRACTOR TO RESTORE ALL AREAS BACK TO EITHER PROPOSED GRADES OR EXISTING CONDITIONS AFTER COMPLETION OF THE PROJECT. ALL DISTURBED AREAS, HAUL ROADS, CONSTRUCTION ROADS, LAY DOWN AREAS, ETC. SHALL BE RESTORED.

THE ENGINEER AND/OR SURVEYOR TAKES NO RESPONSIBILITY FOR THE LOCATION OR ACCURACY OF THE UTILITIES AS SHOWN HEREON OR ANY UTILITIES WITHIN THE PROJECT THAT MAY NOT BE SHOWN HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES TO SEE IF ANY UTILITIES EXIST WITHIN THE AREA OF THE PROJECT BEFORE ANY CONSTRUCTION BEGINS. ANY COST INCURRED BY DAMAGING ANY UTILITY WITHIN THE PROJECT SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

48 WORKING HOURS PRIOR TO STARTING THE WORK, THE CONTRACTOR SHALL CALL MISS UTILITY AT PHONE NUMBER 811 AND ADVISE THE NATURE AND LOCATION OF THE WORK.



COVER SHEET FOR BASKETBALL FACILITY - MILLER PARK CITY OF LYNCHBURG, VIRGINIA



SHEET INDEX

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C3.0	DEMOLITION PLAN
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C5.0	DETAIL SHEET
C6.0	DRAINAGE MAPS
C6.1	DRAINAGE MAPS

GENERAL NOTES:

- TAX MAP: # 011-03-001
ZONED: R-3
CURRENT USE: PARK
PROPOSED USE: PARK
PROPERTY ADDRESS: 2100 PARK AVENUE
LYNCHBURG, VA 24502
- OWNER: CITY OF LYNCHBURG
ADDRESS: 900 CHURCH STREET
LYNCHBURG, VA 24504
CONTACT: CHARLES C. YUELL
PHONE: (434) 455-5787
- THE SCOPE OF THIS PLAN SHALL INCLUDE A 7,280 SF BASKETBALL COURT AND A 4,340 SF HALF BASKETBALL COURT.
TOTAL DISTURBED AREA WILL BE: 0.73 ACRES. NO VSMF PERMIT WILL BE REQUIRED.
NO DEMOLITION, SITE WORK, OR GRADING IS PERMITTED PRIOR TO ISSUANCE OF A LAND DISTURBANCE PERMIT ISSUED BY THE CITY OF LYNCHBURG.
ALL EROSION/STORMWATER MANAGEMENT MEASURES MUST BE DE-WATERED PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY AND ALL TEMPORARY EROSION MUST BE REMOVED WITHIN 30 DAYS OF PERMANENT STABILIZATION OF THE SITE.
ALL CONSTRUCTION STAGING, LOADING, TEMPORARY PARKING, AND LAY DOWN AREAS SHALL BE COORDINATED WITH THE OWNER PRIOR TO ANY CONSTRUCTION OR DEMOLITION ACTIVITIES.
CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE DUST CONTROL TO PREVENT DAMAGING AND/OR NUISANCE AIRBORNE DUST FROM LEAVING THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING WHATEVER MEASURES ARE NECESSARY TO CORRECT AND/OR COMPENSATE BORDERING PROPERTY OWNERS AND THE OWNER FOR ALL DAMAGES DUE TO DUST.
THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF LYNCHBURG MANUAL OF DETAILS AND SPECIFICATIONS.
CONTRACTOR RESPONSIBLE FOR OBTAINING ALL PERMITS AND BONDS AS DEEMED NECESSARY BY THE CITY OF LYNCHBURG.
CONTRACTOR SHALL CONTACT THE CITY OF LYNCHBURG PRIOR TO ANY DEMOLITION OR GRADING ACTIVITIES WITHIN THE RIGHT OF WAY TO OBTAIN THE APPROPRIATE PERMITS.
CONTRACTOR SHALL CONTACT THE OWNER IN WRITING NOT LESS THAN 30 DAYS MINIMUM PRIOR TO ANY DEMOLITION AND/OR CONSTRUCTION ACTIVITY TO VERIFY MARKING OF EXISTING UTILITY SERVICES.
CONTRACTOR SHALL BE REQUIRED TO PROVIDE PROOF TO THE CITY OF LYNCHBURG THAT A SOIL TEST HAS BEEN CONDUCTED IN ORDER TO DETERMINE FERTILIZER APPLICATION RATES FOR THE ESTABLISHMENT OF GRASS ON THE SITE.
THE AREA SHOWN HEREON IS LOCATED IN FLOOD ZONE 'X' AND IS NOT LOCATED WITHIN FLOOD HAZARD ZONE 'AE' FOR A 100 YEAR FLOOD AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AS SHOWN ON COMMUNITY-PANEL MAP #5100930043D DATED 6/03/2008.
THE CITY OF LYNCHBURG WILL REQUIRE A PRE-CONSTRUCTION MEETING WITH THE CERTIFIED RESPONSIBLE LAND DISTURBER, THE ENGINEER AND JACOB DORMAN OF THE CITY OF LYNCHBURG PRIOR TO THE ISSUANCE OF THE LAND DISTURBANCE PERMIT. JACOB DORMAN MAY BE CONTACTED AT 434-455-3892 TO SET UP MEETING. CONTRACTOR SHALL BE PREPARED TO PROVIDE THEIR CERTIFICATION NUMBER AT THIS MEETING.
ALL APPLICABLE FEDERAL/STATE PERMITS (INCLUDING THOSE ISSUED BY THE U.S. ARMY CORPS OF ENGINEERS, VIRGINIA DEPARTMENT OF ENVIRONMENTAL AND VIRGINIA MARINE RESOURCES COMMISSION) FOR WORK IN STREAMS AND WETLANDS MUST BE SECURED PRIOR TO SITE PLAN APPROVAL FOR THE PROJECT.
CONTACT THE CITY ENVIRONMENTAL REVIEWER, THE CITY CONSTRUCTION COORDINATOR AND MISS UTILITY 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
ANY ADDITIONAL SIGNS MUST BE SUBMITTED FOR REVIEW OUTSIDE THE NORMAL TRC PROCESS.
THE PROPOSED COURTS ARE A PUBLIC USE AND WILL BE PERMITTED BY RIGHT IN ACCORDANCE WITH: SEC. 35.1-67.1, PUBLIC USES, SECTION 35.1-69, RECREATION FACILITIES, PUBLIC OR COMMUNITY OWNED.

EXISTING LEGEND

- ELECTRIC POLE
- GUY WIRE
- WATER METER
- BENCHMARK
- SIGN
- EDGE OF PAVEMENT
- OH E - OVERHEAD ELECTRIC
- CONCRETE

PROPOSED LEGEND:

- LIMITS OF CONSTRUCTION
- SILT FENCE
- PROPOSED INDEX CONTOUR
- PROPOSED CONTOUR
- REGULAR DUTY PAVEMENT

IMPERVIOUS AREA STATISTICS FOR THIS PROJECT:

PROJECT AREA: 3.80 AC
EXISTING PROJECT IMPERVIOUS AREA: 0.83 AC
PROPOSED PROJECT IMPERVIOUS AREA: 0.15 AC
IMPERVIOUS AREA TO BE REMOVED: .24 AC
TOTAL POST PROJECT IMPERVIOUS AREA: 0.74 AC



"I hereby certify that, to the best of my ability, this plan has been prepared, where applicable, in accordance with the latest City of Lynchburg Manual of Specifications and Standard Details and City Code."

Signature: *Patrick C. Proffitt*
Printed Name and Title: PATRICK C. PROFFITT, PE
Date: 01/28/13, Registration Number: 034330

"I/ We hereby certify that all site construction, drainage and grading will be done pursuant to this plan and that the applicable Stormwater Management conditions and requirements of the City of Lynchburg, the Commonwealth of Virginia and the Federal Government and its agencies are hereby made part of this plan."

Signature: _____
Printed Name: _____
Title: _____ Date: _____

LAND DISTURBANCE ONLY EROSION & SEDIMENT CONTROL APPROVAL

TRC: _____ DATE: _____
E&S: _____ DATE: _____

VIRGINIA CERTIFIED RESPONSIBLE LAND DISTURBER

NAME - PRINTED SIGNATURE DATE
PHONE # COMPANY
ADDRESS

PLAN REVISIONS			
#	DATE	DESCRIPTION OF REVISION	SHEETS
1	12/26/13	PER CITY COMMENTS	ALL
2	03/21/14	PER OWNER COMMENTS	1, 4, 5, 6, 1

HURT & PROFFITT
2524 LANGHORNE ROAD
LYNCHBURG VA 24501
800.242.4906 TOLL FREE
434.847.7796 MAIN
434.847.0047 FAX

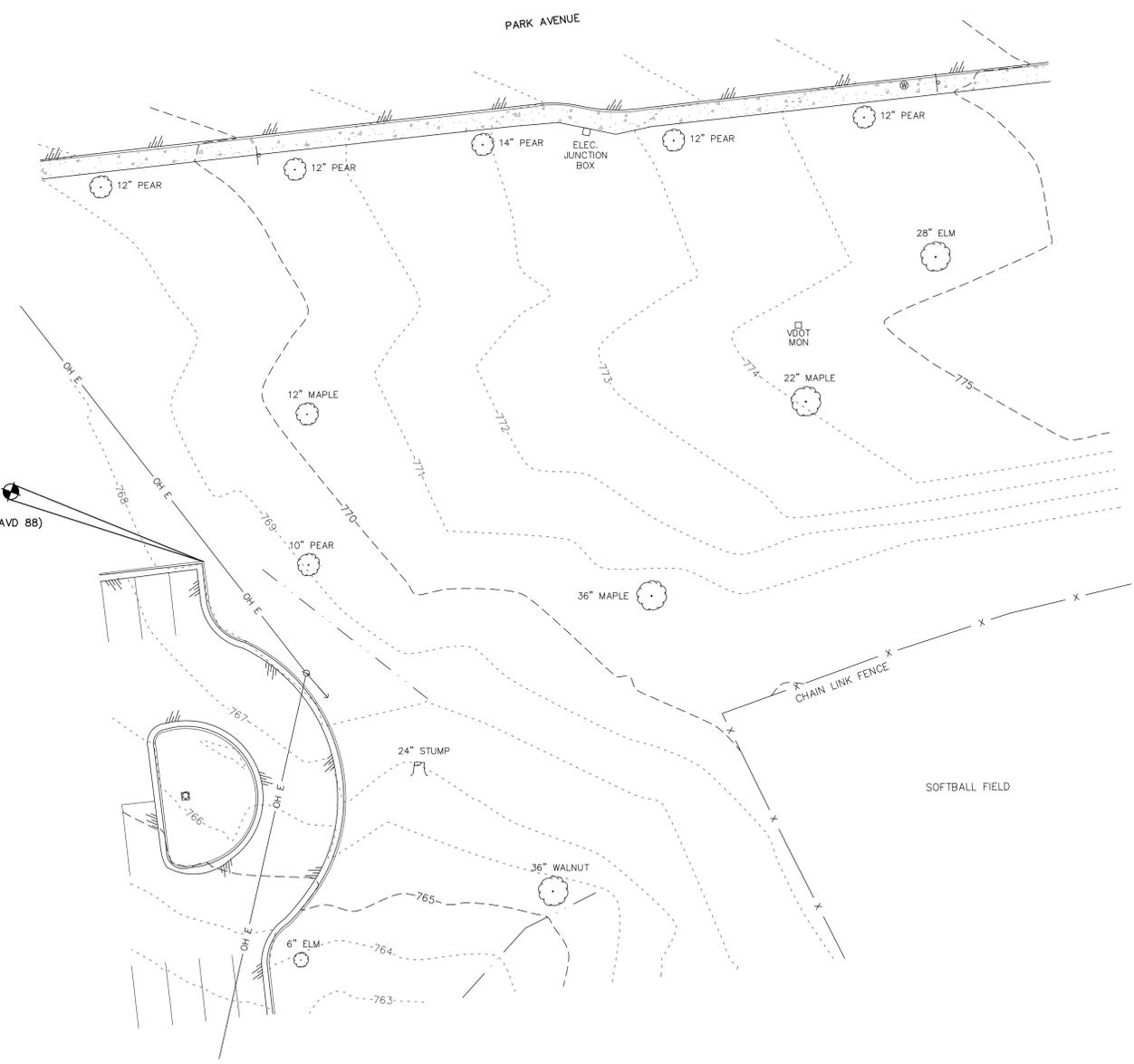
ENGINEERING • SURVEYING • LAND DEVELOPMENT • ENVIRONMENTAL
GEOLOGICAL • CONSTRUCTION TESTING & INSPECTION • CULTURAL RESOURCES

COVER SHEET FOR BASKETBALL FACILITY - MILLER PARK CITY OF LYNCHBURG, VIRGINIA

PROJECT NO. 20130680
G.L. NO. 229-14-C3.7
FILE NO. G-14161
DATE: 11/25/2013
DRAWN BY: NRO
CHECKED BY: PCP



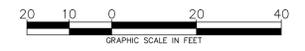
1973 - 2013
40
YEARS OF EXCELLENCE
SHEET NO. C1.0



BENCH MARK:
CHISELED SQUARE ON
TOP BACK OF CURB
ELEVATION = 768.52' (NAVD 88)

NORTH
VIRGINIA STATE PLANE GRID SOUTH ZONE (NAD 83)

- NOTES:**
1. THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT RESPONSIBLE CHARGE OF TROY D. WILLIAMS FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION. THE DATA WAS OBTAINED ON NOVEMBER 11, 2013; AND THIS MAP MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
 2. THIS PLAT HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT, THEREFORE, NECESSARILY INDICATE ALL ENCUMBRANCES ON THE PROPERTY.
 3. THE AREA SHOWN HEREON IS LOCATED IN FLOOD HAZARD ZONE 'X' AND IS NOT LOCATED WITHIN FLOOD HAZARD ZONE 'A' FOR A 100 YEAR FLOOD AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AS SHOWN ON COMMUNITY-PANEL MAP #5100930043D DATED REVISED JUNE 3, 2008.
 4. VERTICAL CONTROL FOR THIS PROJECT IS BASED ON NAVD 88.
 5. THE UTILITIES SHOWN HEREON ARE PLOTTED PER VISIBLE EVIDENCE IN THE FIELD. UNDERGROUND UTILITIES HAVE NOT BEEN MARKED IN THE FIELD AT THIS TIME.
 6. THE SURVEYOR TAKES NO RESPONSIBILITY FOR THE LOCATION OR ACCURACY OF THE UTILITIES SHOWN HEREON OR ANY UTILITIES WITHIN THE PROJECT AREA THAT MAY NOT BE SHOWN HEREON. THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE MISS UTILITY 1-800-522-7001 REQUEST A 48 HOUR EXCAVATION TICKET BEFORE STARTING OF EXCAVATION/GROUND DISTURBANCE OF ANY KIND.
 7. THIS SURVEY WAS PREPARED AT THE REQUEST OF THE LYNCHBURG DEPARTMENT OF PARKS & RECREATION.
 8. NO BOUNDARY SURVEY HAS BEEN PERFORMED AT THIS TIME.

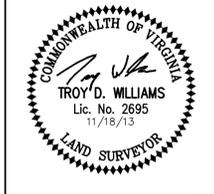


- LEGEND**
- ⊗ ELECTRIC POLE
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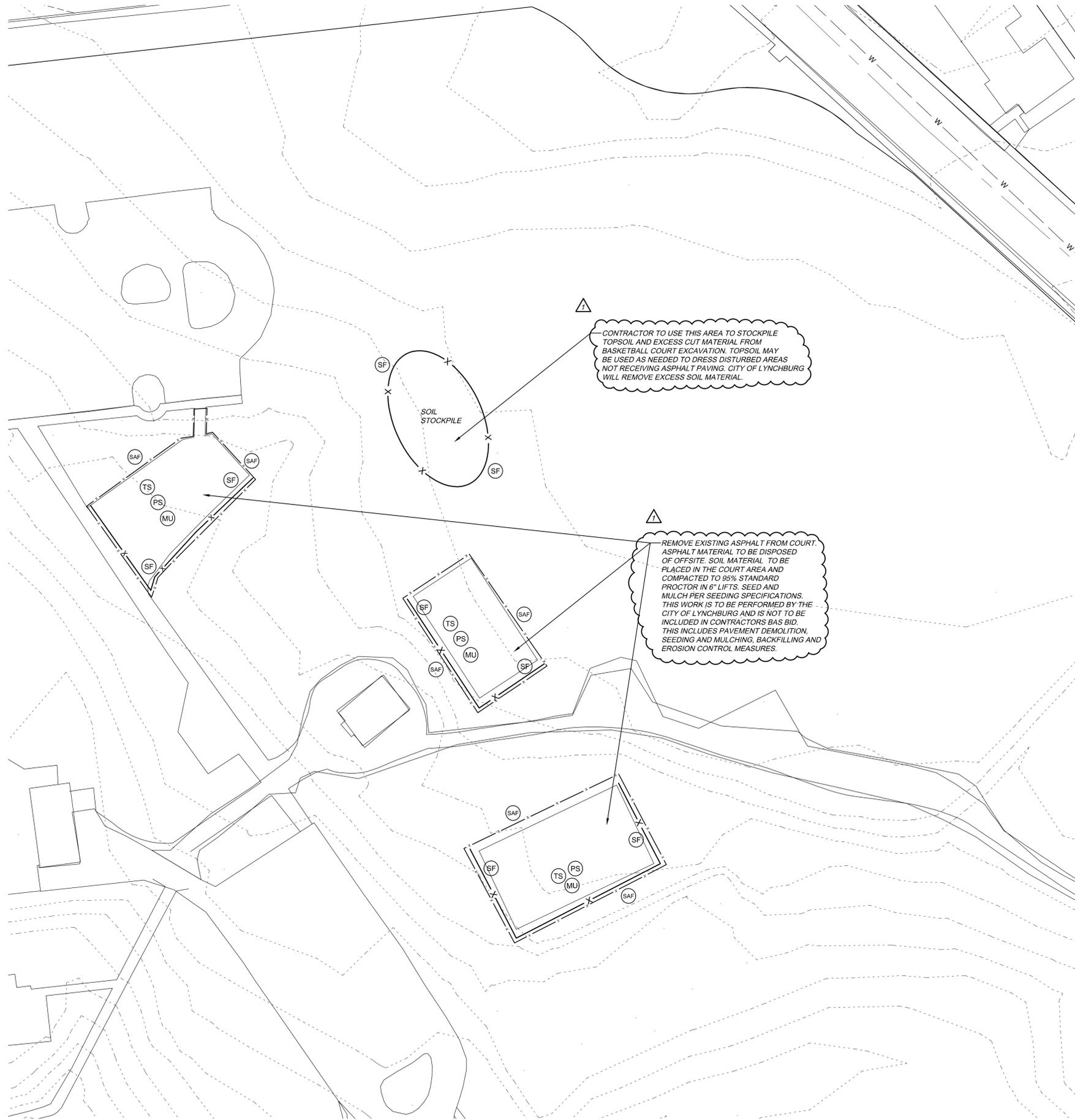
TOPOGRAPHIC SURVEY
PROPOSED BASKETBALL FACILITY
MILLER PARK
 CITY OF LYNCHBURG, VIRGINIA

PROJECT NO. 20130680
 G.L. NO. 229-14-C3.7
 FILE NO.
 DATE: 11/18/13
 DRAWN BY: MCM
 CHECKED BY: TDW



HURT & PROFFITT

SHEET NO.
C2.0



DEMOLITION NOTES:

1. NO LAND DISTURBING ACTIVITY SHALL OCCUR PRIOR TO OBTAINING A LAND DISTURBANCE PERMIT FROM THE LOCAL AUTHORITY.
2. ALL EXCESS AND UNSUITABLE MATERIAL TO BE DISPOSED OF BY CONTRACTOR. NO BURNING IS ALLOWED ONSITE.
3. CONTRACTOR RESPONSIBLE FOR COORDINATION WITH ALL APPLICABLE UTILITY COMPANIES & OWNER AS NECESSARY DURING CONSTRUCTION AND DURING RELOCATION OF EXISTING UTILITIES.
4. CONTRACTOR TO NOTIFY ENGINEER AND APPLICABLE UTILITY SERVICE PROVIDER OF ANY CONFLICTS WITH UNDERGROUND UTILITIES.
5. CONTRACTOR TO SUPPLY LOCAL AUTHORITY WITH THE NAME AND CERTIFICATION NUMBER OF THE RESPONSIBLE LAND DISTURBER AND POST THE LAND DISTURBANCE BOND AT THE AMOUNT SET BY THE LOCAL AUTHORITY WHEN OBTAINING THE LAND DISTURBANCE PERMIT.
6. CONTRACTOR RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, AND FEES AT HIS EXPENSE FOR THIS PROJECT THAT HAVE NOT BEEN OBTAINED BY OWNER. CONTRACTOR SHALL COORDINATE WITH OWNER.
7. DEMOLITION CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO OWNER AND CIVIL ENGINEER PRIOR TO SUBMISSION OF BIDS.
8. ALL PORTIONS OF WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES (ORDINANCES, AND STANDARDS).
9. CONTRACTOR TO ESTABLISH AND PROPERLY FLAG PROPERTY LINES PRIOR TO DEMOLITION, IF APPLICABLE.
10. DEMOLITION CONTRACTOR TO ACQUIRE ALL NECESSARY PERMITS TO COMPLETE DEMOLITION. VERIFY WITH THE LOCAL AUTHORITY BUILDING DEPARTMENT, ZONING, RIGHT OF WAY, AND ALL OTHER GOVERNING AUTHORITIES.
11. ALL PLUMBING, SANITARY, GAS, CABLE T.V., ELECTRICAL, AND TELEPHONE LINES SERVICING THIS SITE TO BE CAPPED IN ACCORDANCE WITH LOCAL CODES.
12. DEMOLITION CONTRACTOR TO NOTIFY UTILITY NOTIFICATION CENTER NO LESS THAN 48 HOURS OR MORE THAN (5) WORKING DAYS PRIOR TO DEMOLITION OF EXISTING UTILITIES AS REQUIRED BY LOCAL UTILITIES. CONTRACTOR TO VERIFY.
13. DEMOLITION CONTRACTOR TO PROVIDE ALL BARRICADES, SCAFFOLDING, AND OTHER MEANS OF PROTECTION REQUIRED TO COMPLY WITH ALL STATE LAWS, AND LOCAL MUNICIPAL ORDINANCES TO SAFE GUARD PERSONS.
14. ANY FILL MATERIAL REQUIRED SHALL BE CLEAN, NO CONCRETE RUBBLE ETC. WILL BE ACCEPTED.
15. TREES SHOWN TO REMAIN SHALL MAINTAIN PROTECTIVE BARRIERS DURING DEMOLITION AND CONSTRUCTION. THESE BARRIERS SHALL BE IN ACCORDANCE WITH CURRENT LOCAL AUTHORITY/VDOT STANDARDS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY EXISTING SITE IMPROVEMENTS, NOT SPECIFICALLY PLANNED FOR DEMOLITION, DAMAGED DUE TO DEMOLITION ACTIVITY.

VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES
 * CHART TAKEN FROM THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (JULY 1992)

- (SAF) SAFETY FENCE (3.01)
- (SF) SILT FENCE (3.05)
- (TS) TEMPORARY SEEDING (3.31)
- (PS) PERMANENT SEEDING (3.32)
- (MU) MULCHING (3.35)



DEMOLITION PLAN
 FOR
BASKETBALL FACILITY - MILLER PARK
 CITY OF LYNCHBURG, VIRGINIA

PROJECT NO.	20130680
G.L. NO.	229-14-C3.7
FILE NO.	G-14161
DATE:	11/25/2013
DRAWN BY:	NRO
CHECKED BY:	PCP



Mar 21, 2014 - 2:29pm I:\data\progress\2013\20130680\CAD\DEM.DWG

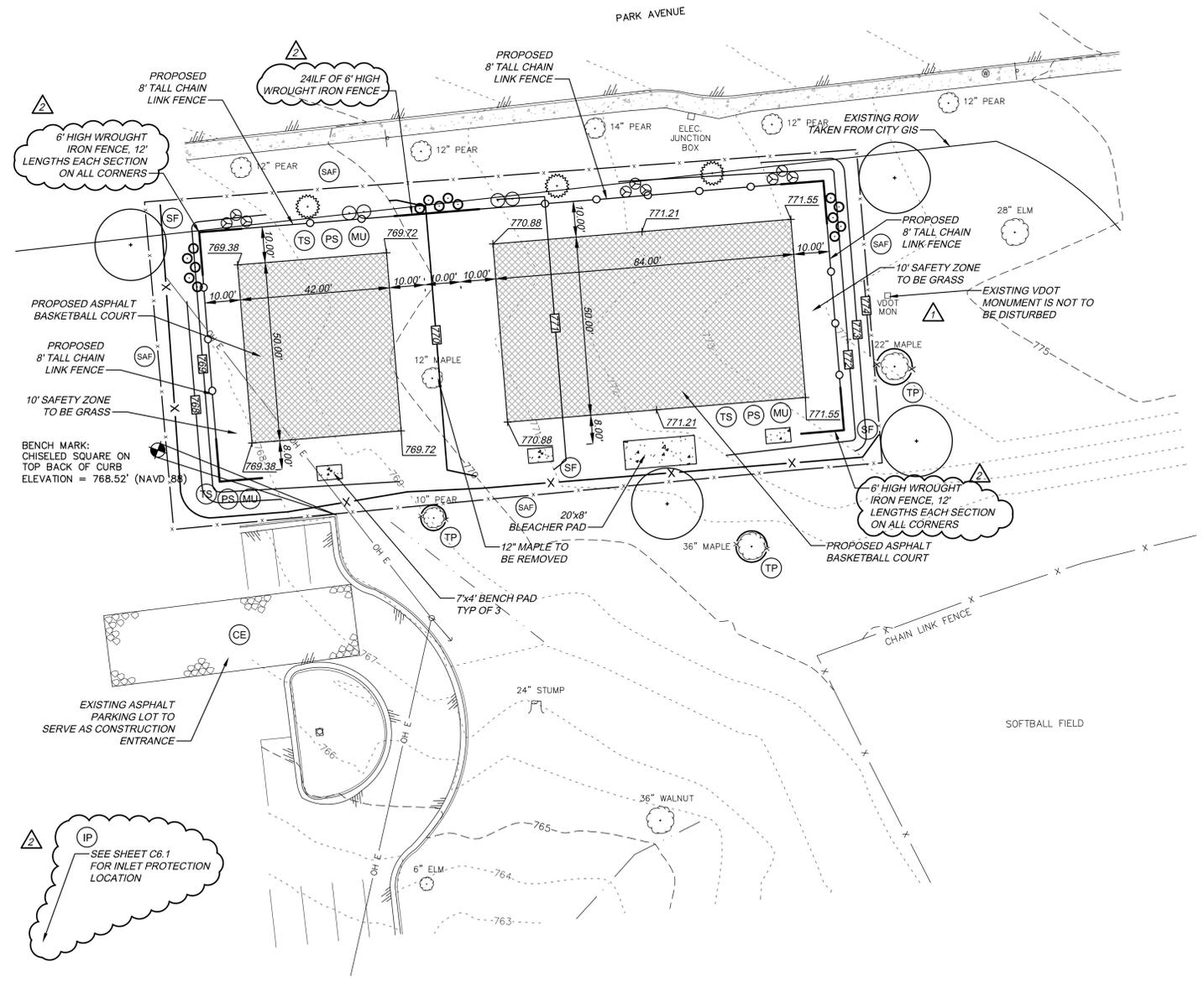
LANDSCAPE SCHEDULE - SEC. 35.1-25.1.5

TREES:
NAME: QUANTITY SIZE/CALIPER

SHRUBS:
NAME: QUANTITY GAL./HEIGHT

○	VIBURNUM Plicatum	(3) THREE	2' HEIGHT
○	DOUBLEFILE VIBURNUM		
○	Ilex X SPARKLEBERRY	(4) FOUR	2' HEIGHT
○	Ilex VERTICILLATA	(9) NINE	2' HEIGHT
○	DUETZIA GRACILIS	(15) FIFTEEN	2' HEIGHT
○	NIKKO		

○	TBD	(4) FOUR	TBD
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VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES

* CHART TAKEN FROM THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (JULY 1992)

- SAF SAFETY FENCE (3.01)
- CE TEMPORARY CONSTRUCTION ENTRANCE (3.02)
- SF SILT FENCE (3.05)
- IP STORM DRAIN INLET PROTECTION (3.07)
- TS TEMPORARY SEEDING (3.31)
- PS PERMANENT SEEDING (3.32)
- ML MULCHING (3.35)
- TP TREE PRESERVATION & PROTECTION (3.38)

GRADING NOTES:

- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PER THE STANDARDS AND SPECIFICATIONS OF THE MOST RECENT VERSION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES FOR THE DURATION OF THE PROJECT. ALL EROSION CONTROL DEVICES SHALL BE CHECKED DAILY TO ENSURE THAT ALL ARE PROPERLY IN PLACE AND FUNCTIONING AS PLANNED. ALL EROSION CONTROL DEVICES WILL BE REPAIRED (CLEANED) AS NECESSARY, AND AFTER EACH RAINFALL PRODUCING RUNOFF AS A MINIMUM.
- ALL DISTURBED AREAS TO RECEIVE TEMPORARY SEEDING, PERMANENT SEEDING AND MULCH. ALL SLOPES OF 2:1 OR GREATER MUST RECEIVE BLANKET AND MATTING IN ADDITION TO SEEDING AND MULCHING PRACTICES AS STATED IN THE MOST RECENT VERSION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
- STRUCTURAL FILL MATERIAL SHOULD BE PLACED IN HORIZONTAL LIFTS, WITH AN 6 INCH TO 8 INCH LOOSE THICKNESS, AND COMPACTED TO AT LEAST 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR).
- CONTRACTOR IS TO FURNISH THE NAME OF THEIR VIRGINIA CERTIFIED RESPONSIBLE LAND DISTURBER TO THE CITY OF LYNCHBURG PRIOR TO ANY LAND DISTURBANCE.
- CONTRACTOR TO TEMPORARY SEED & MULCH DIVERSIONS IMMEDIATELY FOLLOWING CONSTRUCTION.
- CONTRACTOR TO BE RESPONSIBLE FOR REROUTING ALL TEMPORARY DIVERSIONS AND SILT FENCE AS NECESSARY DURING CONSTRUCTION TO MAINTAIN PROPER DRAINAGE OF DISTURBED AREAS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ADDITIONAL E&S MEASURES OR MAINTENANCE REQUESTS OR REROUTING, OR RELOCATING. E&S MEASURES AS DEEMED NECESSARY BY THE CITY OF LYNCHBURG OR LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
- ALL FILL AREAS TO BE STRIPPED OF UNSUITABLE MATERIAL BEFORE PLACING AND COMPACTING FILL MATERIAL.
- CONTRACTOR SHALL BACKFILL TO THE EDGE OF PAVEMENT AND COMPACT. CONTRACTOR SHALL SEED, FERTILIZE AND MULCH IMMEDIATELY UPON COMPLETION OF GRADING OPERATIONS.
- CONTRACTOR SHALL CONTACT ENGINEER IF ADDITIONAL CONSTRUCTION ENTRANCE MEASURES ARE NEEDED TO PREVENT THE TRACKING OF MUD, DIRT, OR DEBRIS ONTO ANY PAVED SURFACES INSIDE OR OUTSIDE OF THE PROPOSED CONSTRUCTION LIMITS.
- UPON COMMENCEMENT OF DEMOLITION ACTIVITIES THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND SUPPLYING THE NECESSARY SAMPLES AND RESULTS TO DETERMINE FERTILIZER AND NUTRIENT APPLICATION FOR THE ESTABLISHMENT OF GRASS IN THE SITE.
- NO SITE WORK, LOGGING, GRUBBING OR GRADING IS PERMITTED PRIOR TO ISSUANCE OF A LAND DISTURBING PERMIT. NO BURNING OF ANY DEBRIS WITHOUT PRIOR APPROVAL FROM THE FIRE MARSHAL'S OFFICE.
- ALL EROSION/STORMWATER MANAGEMENT MEASURES MUST BE DE-WATERED PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY AND ALL TEMPORARY EROSION MUST BE REMOVED WITHIN 30 DAYS OF PERMANENT STABILIZATION OF THE SITE.

HURT & PROFFITT
 2524 LANGHORNE ROAD
 LYNCHBURG VA 24501
 800.242.4906 TOLL FREE
 434.847.7796 MAIN
 434.847.0047 FAX

ENGINEERING • SURVEYING • LAND DEVELOPMENT • ENVIRONMENTAL
 GEOTECHNICAL • CONSTRUCTION TESTING & INSPECTION • CULTURAL RESOURCES

SITE, GRADING, & EROSION SEDIMENT CONTROL PLAN
 FOR
BASKETBALL FACILITY - MILLER PARK
 CITY OF LYNCHBURG, VIRGINIA

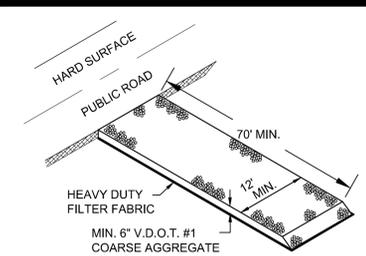
PROJECT NO.	20130680
G.L. NO.	229-14-C3.7
FILE NO.	G-14161
DATE:	11/25/2013
DRAWN BY:	NRO
CHECKED BY:	PCP



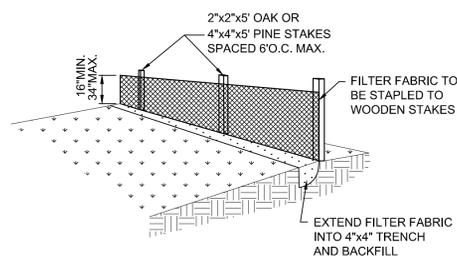
SHEET NO.
C4.0

1	12/26/13	PER CITY COMMENTS
2	03/21/14	PER OWNER COMMENTS

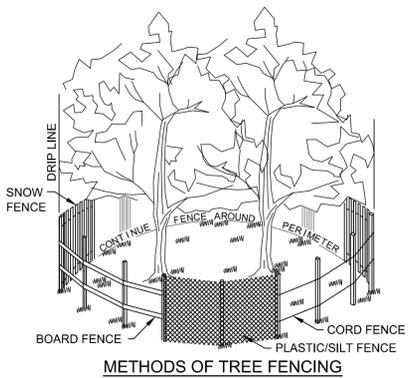
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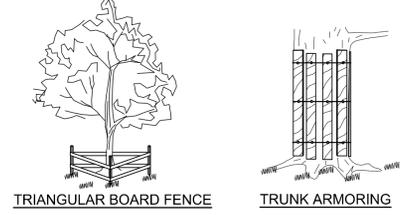
TEMPORARY CONSTRUCTION ENTRANCE (CE)
VESHG STD. 3.02
N.T.S.



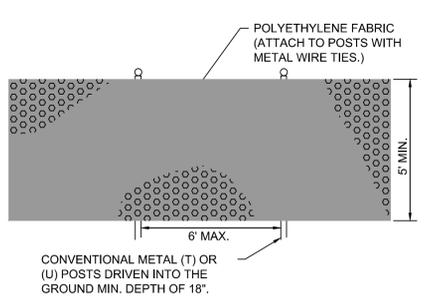
SILT FENCE (SF)
(WITHOUT WIRE SUPPORT)
VESHG STD. 3.05
N.T.S.



METHODS OF TREE FENCING



TREE PROTECTION (TP)
VESHG STD. 3.38
N.T.S.

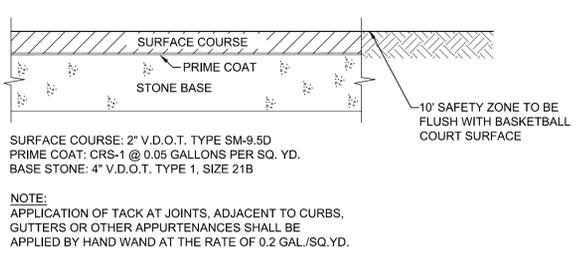


PHYSICAL PROPERTIES OF PLASTIC SAFETY FENCE:

PHYSICAL PROPERTY	TEST	REQUIREMENTS
RECOMMENDED COLOR	N/A	INTERNATIONAL ORANGE
TENSILE YIELD	ASTM D638	AVG. 2000 LBS. PER 4 FT. WIDTH
ULTIMATE TENSILE STRENGTH	ASTM D638	AVG. 2900 LBS. PER 4 FT. WIDTH
ELONGATION AT BREAK (%)	ASTM D638	GREATER THAN 1000%
CHEMICAL RESISTANCE	N/A	INERT TO MOST CHEMICALS & ACIDS

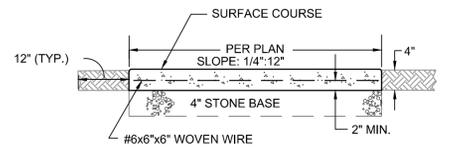
PLASTIC SAFETY FENCE (SAF)
VESHG STD. 3.01
N.T.S.

TYPICAL BASKETBALL COURT PAVING SECTION
N.T.S.



SURFACE COURSE: 2" V.D.O.T. TYPE SM-9.5D
PRIME COAT: CRS-1 @ 0.05 GALLONS PER SQ. YD.
BASE STONE: 4" V.D.O.T. TYPE 1, SIZE 2 1/2"

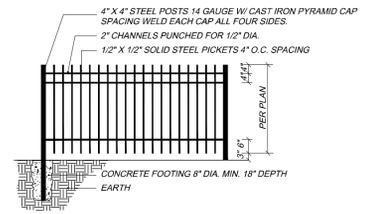
NOTE: APPLICATION OF TACK AT JOINTS, ADJACENT TO CURBS, GUTTERS OR OTHER APPURTENANCES SHALL BE APPLIED BY HAND WAND AT THE RATE OF 0.2 GAL./SQ.YD.



BASE STONE: 4" VDOT #21A
SURFACE COURSE: 4" VDOT A3 3000 psi CONCRETE
SIDEWALK TO BE POURED MONOLITHICALLY WITH A WOOD FLOAT FINISH. CONSTRUCTION JOINTS @ 6' INTERVALS, EXPANSION JOINTS @ 30' INTERVALS FILLED W/ PRE-MOLDED 3/8" JOINT FILLER.

TYP. CONC. PAD SECTION
N.T.S.

NOTES:
- ALL METAL TO BE DEGREASED, PHOSPHATIZED WITH RUST RETARDANT UNDERCOAT AND DIP COATED WITH TWO COATS OF INDUSTRIAL GRADE FLAT BLACK ENAMEL.



WROUGHT-IRON FENCE DETAIL
N.T.S.

SEEDING SPECIFICATIONS:

TEMPORARY SEEDING-

WINTER - 40 LBS. ANNUAL RYE/40 LBS. CEREALE RYE (PER ACRE)
SUMMER - 40 LBS. ANNUAL RYE/40 LBS. FOXTAIL MILLET (PER ACRE)

FERTILIZER - 1500 LBS. 10-18-10/ACRE
LIME - 2 TONS/ACRE

PERMANENT SEEDING-

SEASONAL SPECIFICATION - PER ACRE

2/1 TO 5/15 100 LBS. TALL FESCUE
15 LBS. ANNUAL RYE
2 LBS. RED CLOVER

5/16 TO 7/31 120 LBS. TALL FESCUE
10 LBS. FOXTAIL MILLET
2 LBS. RED CLOVER

8/1 TO 9/15 100 LBS. TALL FESCUE
15 LBS. ANNUAL RYE
2 LBS. RED CLOVER

9/16 TO 1/31 120 LBS. TALL FESCUE
10 LBS. CEREALE RYE
2 LBS. RED CLOVER

FERTILIZER - ALL SEASONS - 1500 LBS. 10-18-10/ACRE
LIME - ALL SEASONS - 2 TONS/ACRE

MULCH

* A MULCH COVER IS REQUIRED ON EVERY SEEDING

* STRAW AT 80 BALES PER ACRE OR AN APPROVED MANUFACTURED MULCH/STABILIZATION MATERIAL

VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS MINIMUM STANDARD #1

PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

GENERAL EROSION AND SEDIMENT CONTROL NOTES
TABLE 6-1

ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.

ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

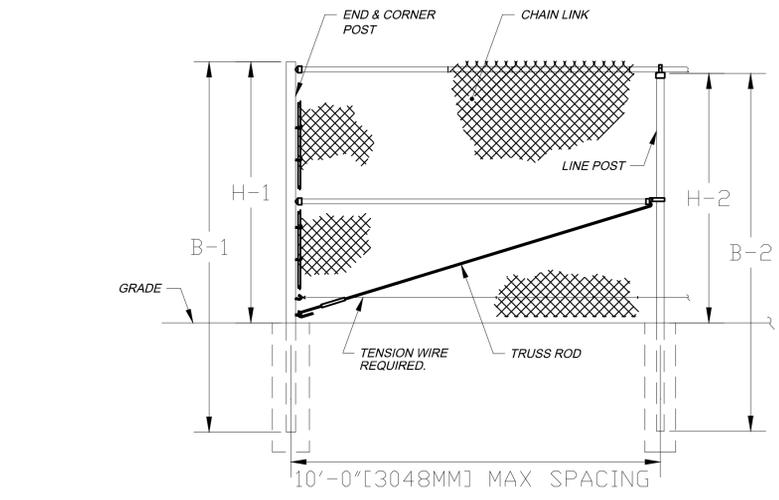
ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.

ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

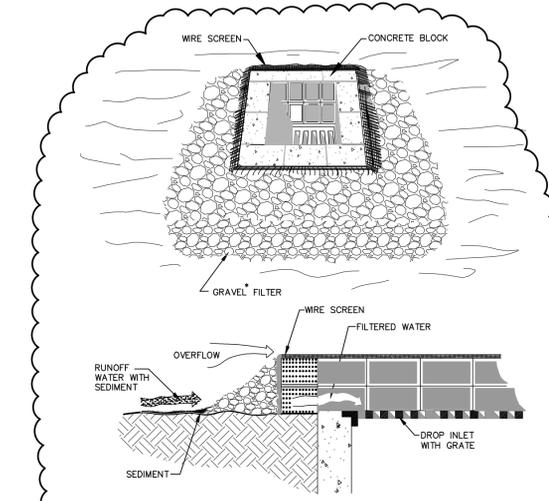


CHAIN-LINK FENCE DETAIL
N.T.S.

FENCE HEIGHT	END & CORNER POSTS		LINE POSTS	
	NOMINAL HEIGHT	NOMINAL BAR LENGTH	NOMINAL HEIGHT ABOVE GRADE	NOMINAL BAR LENGTH
8'-0" [2438MM]	11'-0" [3353MM]	8'-0" 5/8" [2454MM]	10'-8" [3251MM]	7'-8 7/8" [2359MM]
10'-0" [3048MM]	13'-0" [3962MM]	10'-0" 5/8" [3064MM]	12'-8" [3861MM]	9'-8 7/8" [2969MM]

EROSION AND SEDIMENT CONTROL DEVICES:
PERIMETER EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY. AS CONSTRUCTION PROCEEDS, ALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS SOON AS POSSIBLE. EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLAN ARE A MINIMUM AND THE PROJECT CONDITION MAY DICTATE ADDITIONAL CONTROL. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PER THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

EROSION AND SEDIMENT CONTROL MAINTENANCE:
THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES FOR THE DURATION OF THE PROJECT. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CHECKED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL TO INSURE THAT ALL DEVICES ARE IN PLACE AND FUNCTIONING AS REQUIRED. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED PER THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. IN GENERAL, IF THE SILT BUILT UP BEHIND A BARRIER BECOMES AS DEEP AS 9 INCHES, THE SILT IS TO BE REMOVED AND THE BARRIER REPAIRED OR REPLACED. AFTER COMPLETION OF THE PROJECT, AND PERMANENT SEEDING HAS BEEN ESTABLISHED, EROSION CONTROL DEVICES AND ANY SILT BUILT UP SHALL BE REMOVED. DISTURBED AREAS DUE TO THIS CLEANUP OPERATION SHALL BE REPAIRED, RESEEDED AND REMULCHED.



BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER (IP)
VESHG STD. 3.07
N.T.S.

PLATE. 3.07-3
SOURCE: VA. DSWC

* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

SECTION 323113 - CHAIN LINK FENCE MATERIALS

A. GENERAL:
1. COLD-ROLLED STEEL SHEETS SHALL COMPLY WITH ASTM A 1008/A 1008M, SUITABLE FOR EXPOSED APPLICATIONS.
1. ALL PIPING FOR FENCE AND GATES SHALL BE SCHEDULE 40 HOT-DIPPED GALVANIZED STEEL OR APPROVED EQUAL FOR SIZE, FINISH, MATERIAL COMPOSITION, STRENGTH, APPEARANCE, PERFORMANCE AND EASE OF MAINTAINABILITY.
2. GALVANIZING SHALL BE IN ACCORDANCE WITH ASTM F 668-88. ALL FENCE FITTINGS SHALL COMPLY WITH ASTM F626-89A.
3. ALL MATERIALS EXCEPT NUTS AND BOLTS SHALL HAVE THE PVC COATING EXTRUDED AND ADHERED TO THE GALVANIZED STEEL CORE WIRE PER ASTM F 668-88, CLASS 2A. COLOR SHALL BE AS SELECTED BY THE ENGINEER. FABRIC SHALL HAVE .015 TO .025 INCH PVC COATING EXTRUDED AND ADHERED TO THE CORE. ALL OTHER MATERIALS SHALL BE 10 TO 15 MILS PVC COATING.

B. CHAIN LINK FENCE FABRIC:
1. COLOR COATED CHAIN LINK FENCE FABRIC SHALL CONFORM TO ASTM F668-88 CLASS 2A MATERIAL.
2. FABRIC SHALL BE W&M STEEL CORE WIRE. GALVANIZED WITH NOT LESS THAN .30 OZ. PER SQUARE FOOT OF ACTUAL SURFACE, WITH A .015 - .025 INCH PVC BONDED OR POWDER COATING, EXTRUDED AND ADHERING TO THE GALVANIZED WIRE.
A) FABRIC SHALL BE WOVEN IN A CONTINUOUS 2" MESH (1-3/4 INCH FOR TENNIS COURTS). STEEL CORE WIRE SHALL HAVE A MINIMUM BREAKING STRENGTH 1290 LBS.
B) FINISHED SIZE, INCLUDING PVC BONDED OR POWDER COATING, SHALL BE 8-GAUGE (FINISHED) WITH 9-GAUGE CORE WIRE, 6-GAUGE (FINISHED) WITH 9-GAUGE CORE FOR BACKSTOPS AND WING FENCING (UP TO 10' HEIGHT), OR AS SPECIFIED ON PLANS AND DETAILS. LOWER EDGE OF FABRIC SHALL BE NO GREATER THAN ONE AND ONE-HALF (1-1/2) INCHES ABOVE CONCRETE MOW STRIP OR INFIELD FINISHED GRADE AS SPECIFIED ON PLANS AND DETAILS.
3. FABRIC SHALL HAVE A KNUCKLED TOP AND BOTTOM SELVAGE.
4. HEIGHT OF THE FABRIC MEASURED FROM THE ENDS OF THE KNUCKLED SELVAGE SHALL BE AS SPECIFIED ON PLANS AND DETAILS, PLUS OR MINUS 1 INCH PER 8 LINEAL FEET.

C. PERIMETER FENCING OR BALLFIELD BACKSTOP FRAMEWORK:
1. ALL POSTS, RAILS, AND FRAMEWORK SHALL HAVE 10-15 MILS OF VINYL OR POWDER COATING. NO HAND PAINTING IS ALLOWED, EXCEPT FOR MINOR TOUCHING UP. ALL POSTS, RAILS, RODS SHALL BE STEEL PIPE. SIZES SHALL BE AS SPECIFIED IN THE FOLLOWING TABLE FOR PERIMETER FENCING AND BACKSTOP AND WING FENCING.

FOR COLOR COATED PERIMETER FENCES, WING FENCES & TENNIS COURT FENCES

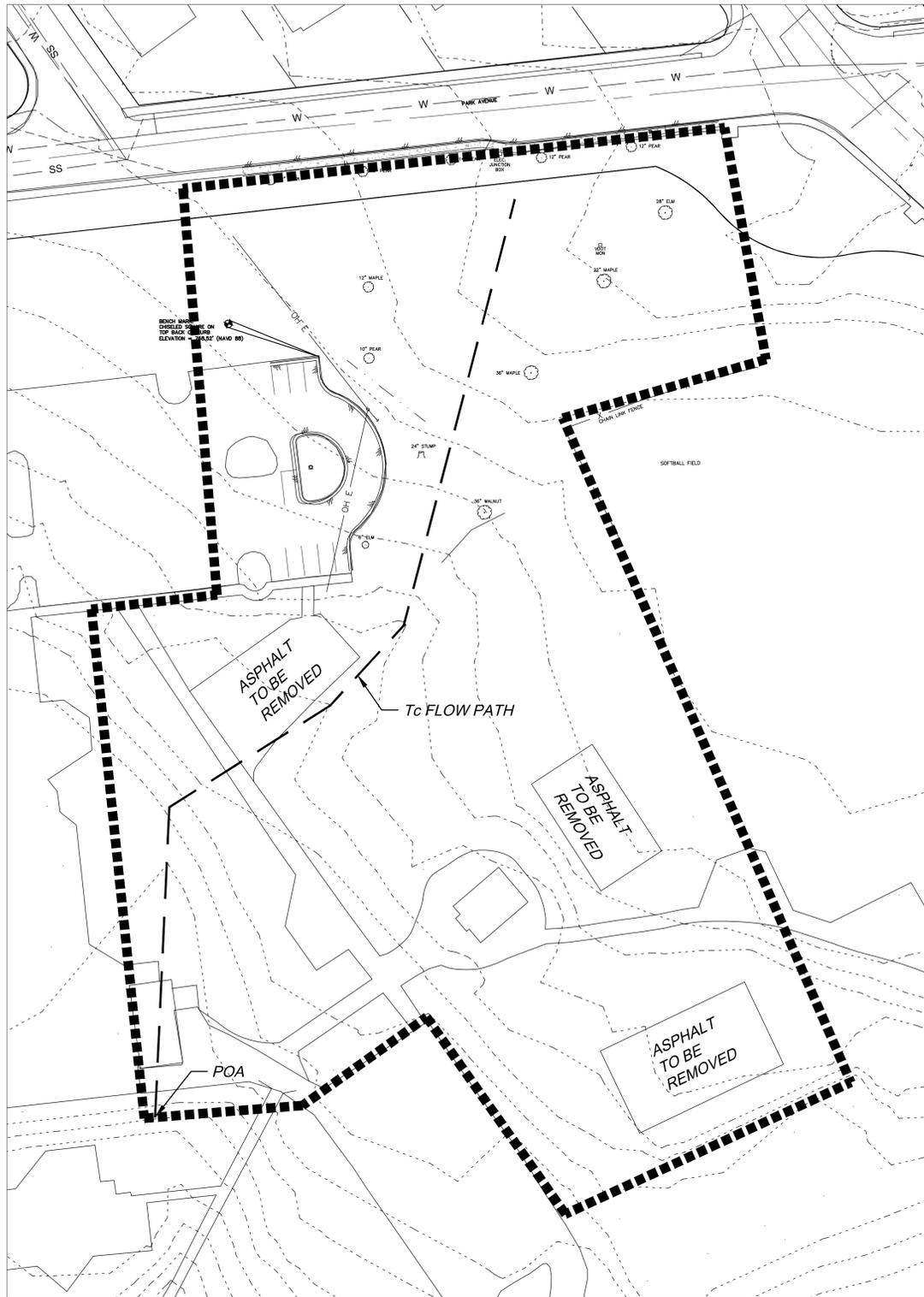
TYPE	4' HIGH	6' HIGH	8' HIGH	10' HIGH	20' HIGH
TERMINAL / CORNER POSTS	3" OD	3" OD	3" OD	3" OD	4" OD
LINE POSTS	2-3/8" OD	2-3/8" OD	2-3/8" OD	2-3/8" OD	2-7/8" OD
TOP RAILS	1-5/8" OD				
INTERMEDIATE RAILS	N/A*	N/A*	1-5/8" OD	1-5/8" OD	1-5/8" OD
BOTTOM RAILS	N/A*	N/A*	1-5/8" OD	1-5/8" OD	1-5/8" OD
POST FOOTING SIZE FOR TERMINAL / CORNER POSTS	12" W 30" D	12" W 36" D	12" W 36" D	18" W 36" D	24" W 48" D
POST FOOTING SIZE FOR LINE POSTS	12" W 24" D	12" W 36" D	12" W 36" D	18" W 36" D	24" W 36" D
FABRIC MESH SIZE	2"	2"	2"	2"	2"
FABRIC FINISHED SIZE	8-GAUGE*	8-GAUGE*	8-GAUGE*	8-GAUGE*	8-GAUGE*

*8-GAUGE (FINISHED) WITH 9-GAUGE CORE WIRE (TYPICAL)

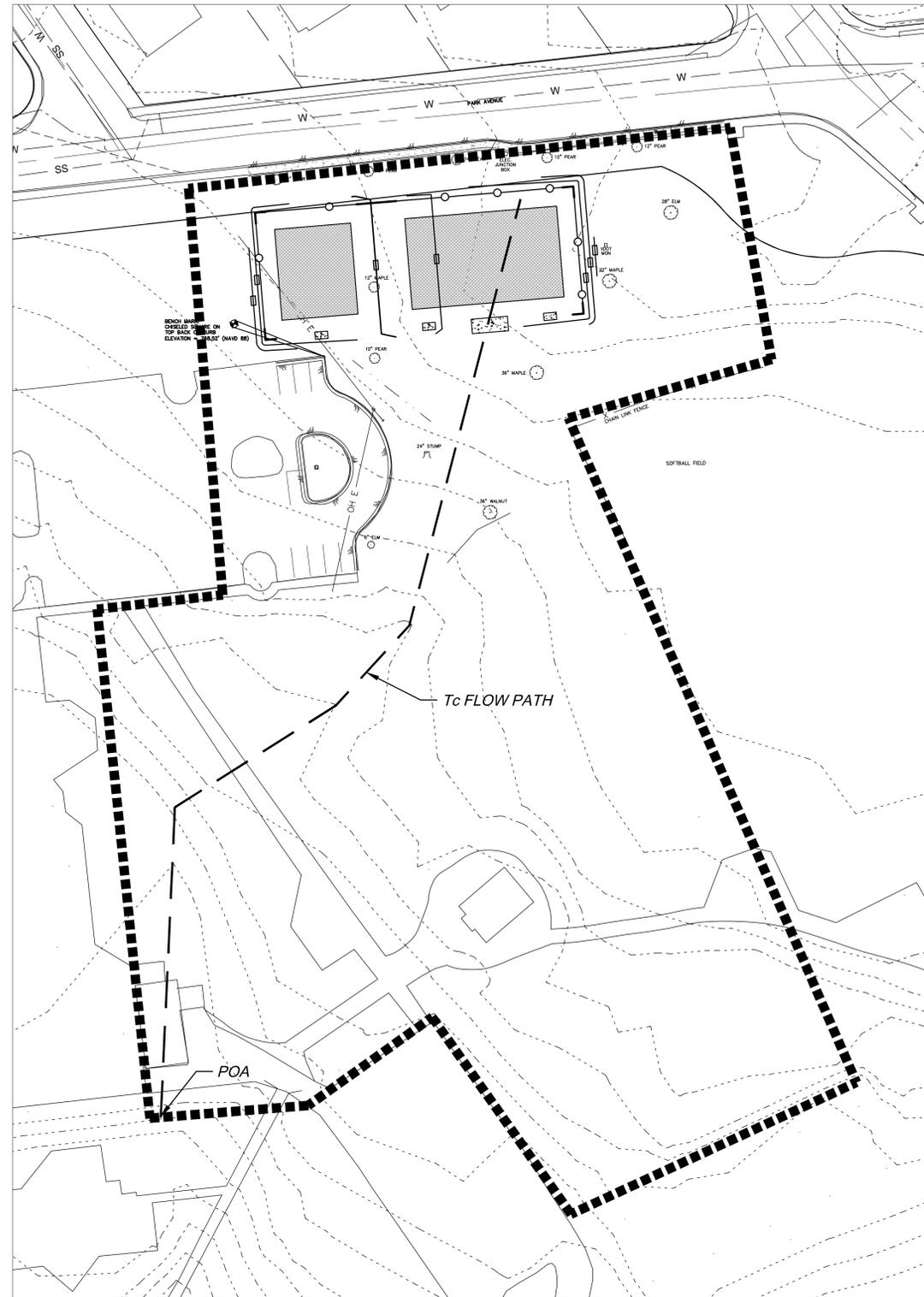
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G.L. NO. 229-14-C3.7
FILE NO. G-14161
DATE: 11/25/2013
DRAWN BY: NRO
CHECKED BY: PCP



1	12/28/13	PER CITY COMMENTS
2	03/21/14	PER OWNER COMMENTS



PRE-DEVELOPED DRAINAGE AREA MAP



POST-DEVELOPED DRAINAGE AREA MAP

Stormwater Calculations Summary Tables		
Overall Pre & Post Drainage Areas		
Design Frequency Event	2 YR	10 YR
Pre-Developed		
Rainfall Intensity	3.0 in/hr	4.1 in/hr
Time of Concentration	12.6 min	12.6 min
Composite Runoff Factor	0.43	0.43
Drainage Area	3.80 acre	3.80 acre
Calculated Inflow	4.9 cfs	6.8 cfs
Post-Developed		
Rainfall Intensity	3.0 in/hr	4.1 in/hr
Time of Concentration	12.9 min	12.9 min
Composite Runoff Factor	0.42	0.42
Drainage Area	3.80 acre	3.80 acre
Calculated Inflow	4.7 cfs	6.5 cfs



DRAINAGE MAPS
 FOR
BASKETBALL FACILITY - MILLER PARK
 CITY OF LYNCHBURG, VIRGINIA

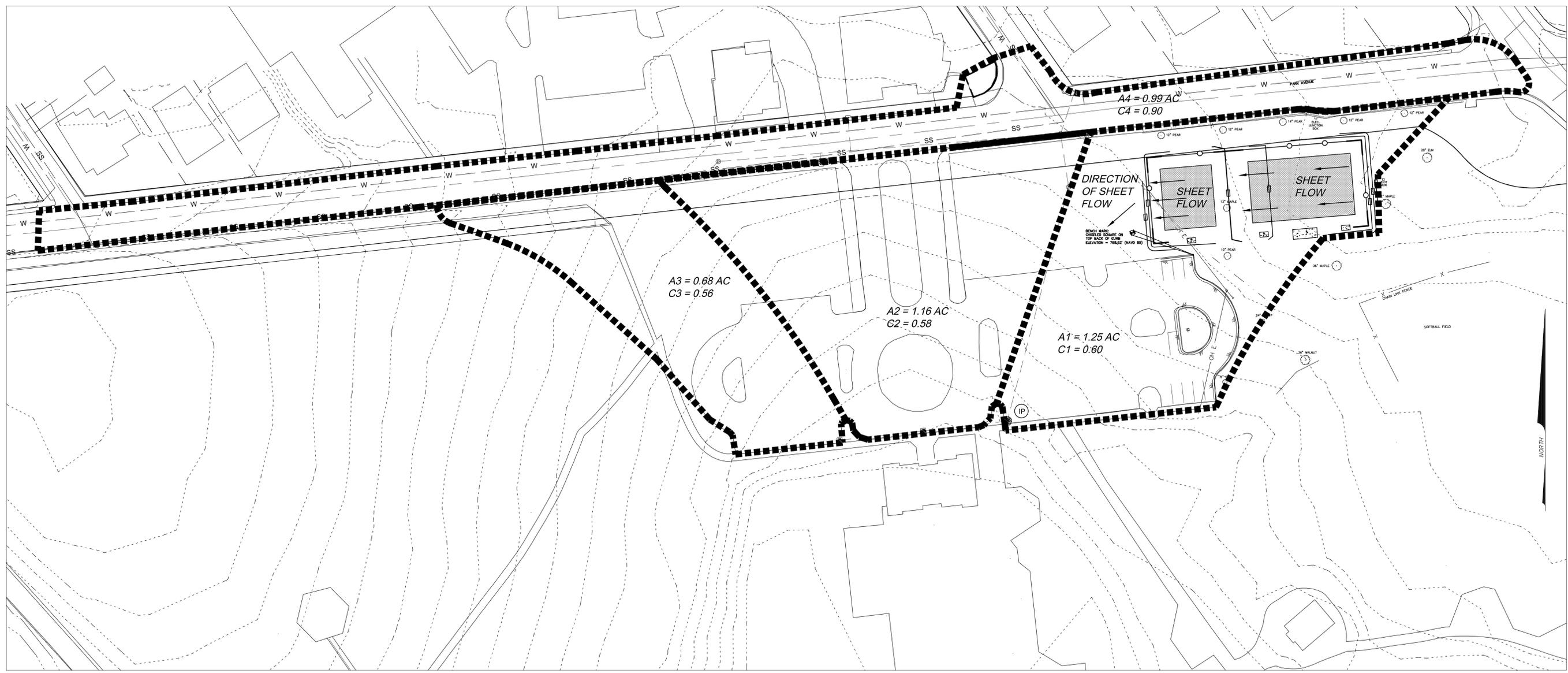
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 CHECKED BY: PCP



1973 - 2013



SHEET NO.
C6.0



ADEQUATE CHANNEL DRAINAGE AREA MAP

Storm Sewer Tabulation Page 1 of 1

Station	Line	To Line	Len		Drng Area		Rnofl coeff	Area x C		Tc	Rain (l)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
			(ft)	(ac)	(ac)	(C)		Incr	Total						Inlet (min)	Syst (min)	(in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End		35.00	1.25	4.08	0.60	0.75	2.69	5.0	5.8	5.4	14.89	22.40	7.07	21	2.00	748.10	748.80	749.50	750.20	752.00	756.00	21 in
2	1		67.50	1.16	1.84	0.58	0.67	1.05	5.0	5.4	5.5	5.81	9.13	5.22	15	2.00	748.80	750.15	750.20	751.11	756.00	753.00	15 in
3	2		67.50	0.68	0.68	0.56	0.38	0.38	5.0	5.0	5.6	2.14	9.13	2.95	15	2.00	750.15	751.50	751.11	752.09	753.00	756.00	15 in
4	1		126.00	0.99	0.99	0.90	0.89	0.89	5.0	5.0	5.6	5.00	19.65	4.82	18	3.50	750.50	754.91	751.35	755.76	756.00	768.00	18 in

Miller Park Storm System Number of lines: 4 Run Date: 03-21-2014

NOTES: Intensity = 41.63 / (Inlet time + 10.00) ^ 0.74; Return period = 10 Yrs. ; c = cir e = ellip b = box

Hydroflow Storm Sewers Extension v6.066

