

GRADING NOTES

- A Geotechnical Engineer shall be employed by the owner and be on site during grading operations. All soils tests shall be verified by the Geotechnical Engineer concurrent with the grading and backfilling operations.
- The grading contractor shall perform a complete grading and compaction operation as shown on the plans, stated in these notes, or reasonably implied there from, all in accordance with the plans and notes as interpreted by the Geotechnical Engineer.
- The Contractor shall notify the Soils Engineer at least two days in advance of the start of the grading operation.
- All areas shall be allowed to drain. All low points shall be provided with temporary ditches.
- A sediment control plan that includes monitored and maintained sediment control basins and/or straw bales should be implemented as soon as possible. No graded area is to be allowed to remain bare without being seeded and mulched. Care should be exercised to prevent soil from damaging adjacent property and silting up existing downstream storm drainage system.
- Debris and foundation material from any existing on-site building or structure which is scheduled to be razed for this development must be disposed of off-site.
- All trash and debris on site, either existing or from construction, must be removed and properly disposed of off-site.
- Soft soil in the bottom and banks of any existing or former pond sites or tributaries or on any sediment basins or traps should be removed, spread out and permitted to dry sufficiently to be used as fill. None of this material should be placed in proposed public right-of-way locations or on any storm sewer locations.
- Site preparation includes the clearance of all stumps, trees, bushes, shrubs, and weeds; the grubbing and removal of roots and other surface obstructions from the site; and the demolition and removal of any man-made structures. The material shall be properly disposed of off-site. Topsoil and grass in the fill areas shall be thoroughly disced prior to the placement of any fill. The Soils Engineer shall approve the discing operation.
- Compaction equipment shall consist of tamping rollers, pneumatic-tired rollers, vibratory roller, or high speed impact type drum rollers acceptable to the Soils Engineer. The roller shall be designed so as to avoid the creation of a layered fill without proper blending of successive fill layers.
- The Soils Engineer shall observe and test the placement of the fill to verify that specifications are met. A series of fill density tests will be determined on each lift of fill. Interim reports showing fill quality will be made to the Owner at regular intervals.
- The Soils Engineer shall notify the Contractor of rejection of a lift of fill or portion thereof. The Contractor shall rework the rejected portion of fill and obtain notification from the Soils Engineer of its acceptance prior to the placement of additional fill.
- All areas to receive fill shall be scarified to a depth of not less than 6 inches and then compacted in accordance with the specifications given below. Natural slopes steeper than 1 vertical to 5 horizontal to receive fill shall have horizontal benches, cut into the slopes before the placement of any fill. The width and height to be determined by the Soils Engineer. The fill shall be loosely placed in horizontal layers not exceeding 8 inches in thickness and compacted in accordance with the specifications given below. The Soils Engineer shall be responsible for determining the acceptability of soils placed. Any unacceptable soils placed shall be removed at the Contractor's expense.
- The sequence of operation in the fill areas will be fill, compact, verify acceptable soil density, and repetition of the sequence. The acceptable moisture contents during the filling operation are those at which satisfactory dry densities can be obtained. The acceptable moisture contents during the filling operation in the remaining areas are from 2 to 8 percent above the optimum moisture control.
- The surface of the fill shall be finished so that it will not impound water. If at the end of a days work it would appear that there may be rain prior to the next working day, the surface shall be finished smooth. If the surface has been finished smooth for any reason, it shall be scarified before proceeding with the placement of succeeding lifts. Fill shall not be placed on frozen ground, nor shall filling operations continue when the temperature is such as to permit the layer under placement to freeze.
- Fill and backfill should be compacted to the criteria specified in the following table:

CATEGORY	MINIMUM PERCENT COMPACTION
Fill in building areas below footings	90%
Fill under slabs, walks, and pavement	90%
Fill other than building areas	88%
Natural subgrade	88%
Pavement subgrade	90%
Pavement base course	90%

Measured as a percent of the maximum dry density as determined by modified Proctor Test (ASTM-D-1557).

Moisture content must be within 2 percent below or 4 percent above optimum moisture content if fill is deeper than 10 feet.



REFERENCE BENCHMARK

R.M. #74 - ELEV.=493.07 (U.S.G.S. DATUM)
Chiseled square on top of east concrete headwall of Birdie Hills Road Bridge over Tributary No. 2 (Approx. 500 feet south of Eisenhower Dr.)

SITE BENCHMARK

ELEV: 580.09 - "0" in open on top of fire hydrant at S. E. corner of High Trail Drive and Knaut Road. Approximately 205' from N. E. corner of Avondale Heights, Plat One

THE GRADING AND ELEVATIONS SHOWN ON THE GRADING PLANS ARE FOR CONSTRUCTION PURPOSES ONLY. FINISHED GRADES AND SLOPES WILL VARY FROM THOSE SHOWN ON THE PLANS DEPENDING UPON LOCATION, SIZE AND TYPE OF HOUSE BUILT ON LOT. HOWEVER, CARE SHOULD BE TAKEN TO ENSURE THAT THE FINISHED GRADING CONFORMS TO THE DRAINAGE AREA MAPS.

GENERAL NOTES

- Underground utilities have been plotted from available information and therefore their locations shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans shall be the responsibility of the contractor, and shall be located prior to any grading or construction of the improvements.
- All manhole tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor.
- All filled places, including trench backfills, under buildings, proposed storm and sanitary sewer lines and/or paved areas, shall be compacted to 90% maximum density as determined by the "Modified AASHTO T-180 Compaction Test," (A.S.T.M.-D-1557). All filled places within public roadways shall be compacted to 95% of maximum density as determined by the "Standard Proctor Test AASHTO T-99, Method C" (A.S.T.M.-D-698).
- All trench backfills under paved areas shall be granular backfill, and shall be compacted to 90% of the maximum density as determined by the "Modified AASHTO T-180 Compaction Test," (A.S.T.M.-D-1557). All other trench backfills may be earth material (free of large clods or stones). All trench backfills shall be water jetted.
- No area shall be cleared without the permission of the Project Engineer.
- All soils test shall be verified by a Soils Engineer concurrent with the grading and backfilling operations.
- Easements shall be provided for sanitary sewers, and all utilities on the Record Plat. See Record Plat for location and size of easements.
- Maintenance and upkeep of the common ground area shall be the responsibility of the developer and/or successors.
- A 25' building line shall be established along all Public Rights-Of-Way.
- All water lines shall be laid at least 10 feet horizontally, from any sanitary sewer, storm sewer, or manhole. 18" vertical clearance from outside of pipe to outside of pipe shall be maintained wherever water lines must cross sanitary sewers, laterals, or storm drains the water line shall be laid at such an elevation that the bottom of the water line is above the top of the drain or sewer. A full length of water pipe shall be centered over the sewer line to be crossed so that the joints will be equally distant from the sewer and as remote therefrom as possible. This vertical separation shall be maintained for that portion of the water line located within 10 feet horizontally, of any sewer or drain it crosses.
- All PVC water pipe shall conform to A.S.T.M.-D-2241, SDR 21 Standard Specification for P.V.C. Pressure Pipe, 200 P.S.I. working pressure for water, with approved joint.
- Water lines, valves, sleeves, meters, and fittings shall meet all specifications and installation requirements of Public Water Supply District No. 2 of St. Charles County.
- All water hydrants and valves shall be ductile iron and installed in accordance with plans and details. All ductile iron pipe for water mains shall conform to A.W.W.A. Specifications C-106 and/or C-108. The ductile iron fittings shall conform to A.W.W.A. Specification CC-110. All rubber gasket joints for water ductile iron pressure pipe and fittings shall conform to A.W.W.A. Specification C-111.
- All pipes shall have positive drainage through manholes. No flat base structures are allowed.
- The City of O'Fallon shall be notified 48 hours prior to construction for coordination and inspection.
- Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing or proposed sanitary or storm sewers, including house laterals.

**A SET OF AS-BUILT PLANS FOR
LEDENDARY POINT**

A TRACT OF LAND BEING PART OF SECTIONS 3 AND 4,
TOWNSHIP 46 NORTH, RANGE 3 EAST,
OF THE FIFTH PRINCIPAL MERIDIAN, SAINT CHARLES COUNTY, MISSOURI



KEY MAP
NOT TO SCALE

GENERAL NOTES (CONTINUED)

- All existing site improvements disturbed, damaged or destroyed shall be repaired or replaced to closely match pre-construction conditions.
- All construction and materials shall conform to the current construction standards of the City of O'Fallon.
- All sanitary and storm sewer trench backfills shall be water jetted. Granular backfill will be used under pavement areas.
- No flushing hydrants or water meters shall be located in driveways and/or walkways.
- Concrete pipe for storm sewers shall be Class III, A.S.T.M. C-76 with a minimum diameter of 12", except in the R.O.W. it shall be 15".
- The ADS N-12 pipe shall have a smooth interior wall.
- Concrete pipe joints shall be MSD type "A" approved compression-type joints and shall conform to the requirements of the specifications for joints for circular concrete sewer and culvert pipe, using flexible, watertight, rubber-type gaskets (A.S.T.M.-C-443). Band-type depending entirely on cement for adhesion and resistance to displacement during jointing shall not be used.
- When HDPE pipe is used, City of O'Fallon specifications or manufacturer's specifications, which ever are more stringent, shall be followed.
- The use of High Density Polyethylene Corrugated pipe, ADS N-12 or equal will be permitted as an acceptable alternative to reinforced concrete pipe, ADS N-12 HC, shall be used for all ADS pipe greater than 36". Pipe shall meet A.S.T.M. D-2321 and A.A.S.H.T.O. M-294-291.
- All flared end sections and inlet structures will be concrete.
- All storm sewer pipe installed in the Public Right-of-Way shall be reinforced concrete Class III pipe.
- All concrete pipe or ADS N-12 pipe shall be installed with "O-Ring" Rubber type gaskets per M.S.D. standard construction specifications or manufacturer.
- All Fire Hydrants and Water Meters shall not be located in driveways and/or sidewalks.
- Any permits, licenses, easements or approvals required to work on public or private properties or roadways are the responsibility of the developer.
- No slopes shall exceed 3 (horizontal) to 1 (vertical).
- Additional traffic signage may be added as required by the City traffic engineer.
- City approval of the construction plans does not mean that single family dwelling units can be constructed on the lots without meeting building setbacks as required by the Zoning Code.
- Contractor shall assume complete responsibility for controlling all sediment, siltation and erosion including, but not limited to staked straw bales and/or siltation fabric fences (possible methods of control are detailed in the plan). Control shall commence with grading and be maintained throughout the project until acceptance of the work by the Owner and/or the City of O'Fallon. The contractor's responsibilities include all design and implementation as required to prevent erosion and the depositing of silt. The Owner and/or City of O'Fallon may at their option direct the contractor in his methods as deemed fit to protect property and improvements. Any depositing of silts or mud on new or existing pavement or in new or existing storm sewers or swales shall be removed after each rain and affected areas cleaned to the satisfaction of the Owner and/or the City of O'Fallon.



CALL BEFORE YOU DIG!
1-800-DIG-RITE
AS-BUILTS ADDED FEBRUARY, 2004

DEVELOPMENT NOTES

- Area of Total Tract: 2.66 Acres
- Existing Zoning: R-1 (City of O'Fallon)
- Proposed Use: Single Family Homes
- Number of Lots Proposed: 6 Lots
- The proposed height and lot setbacks are as follows:
Minimum Front Yard: 25 feet
Minimum Side Yard: 6 feet
Minimum Rear Yard: 25 feet
Minimum Lot Area: 10,000 square feet
Maximum Height of Building: 2 1/2 stories or 35 feet
- Current Owner/Developer: William & Joan Schneider
401 Donnie Lane
St. Peters, Missouri 63376
- Site is served by:
Amenities:
Duckett Creek Sewer District
St. Charles Gas Company
St. Charles County Public Water District No. 2
Verizon Telephone Company
Fort Zumwalt School District
O'Fallon Fire Protection District
- The entirety of this tract lies within Zone X, "areas determined to be outside 500-year floodplain", per F.I.R.M. No. 29183C0243E, dated August 2, 1996.
- Topographic information is per Walker Associates Topo on U.S.G.S. Datum.
- Boundary information from survey by Bax Engineering, Inc.
- All lots shall have one (1) tree (deciduous) planted in front yard for every fifty (50) of street frontage, as required by City code.
- All homes shall have a minimum of 2 off-street parking places with 2-car garages.
- All utilities must be located underground.
- The developer realizes that they will comply with current Tree Preservation Ordinance Number 1689 and provide landscaping as set forth in Article 23 of the City of O'Fallon Zoning Ordinances.
- Additional lighting may be required by the City of O'Fallon.
- All sign posts, backs, and bracket arms shall be painted black using Corboline Rustbond Penetrating Sealer SG and Corboline 133 paint or equivalent as approved by the City of O'Fallon.
- All sign sizes and locations must be approved separately through the City of O'Fallon Planning Division.
- The developer must supply city construction inspectors with soil reports prior to or during site soil testing.
- Calculations in accordance to the Tree Preservation Ordinance: (For Entire Development)
Existing trees: 0.20 acres
Saved trees: 0.17 acres
Trees removed: 0.03 acres
- Trees Required:
0.20 acres X 20% = 0.04 acres
No trees Required
- Landscape Requirements (Phase Two & Future Development):
Length of Centerline of Streets = 574 L.F.
574 L.F. / 50 L.F. = 12 Trees
- Street trees shall be centered within the area between back of curb and sidewalk or back of curb and property line.
- Detention for this site shall be provided through The Estates at Legacy Points.

**DUCKETT CREEK SANITARY DISTRICT
CONSTRUCTION NOTES**

- Underground utilities have been plotted from available information and, therefore, location shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor and shall be located prior to any grading or construction of improvements.
- Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing or proposed sanitary and storm sewers, including house laterals.
- All existing site improvements disturbed, damaged or destroyed shall be repaired or replaced to closely match preconstruction conditions.
- All fill, including places under proposed storm and sanitary sewer lines and paved areas, including trench backfills within and off the road right-of-way, shall be compacted to 90 percent of maximum density as determined by the "Modified AASHTO T-180 Compaction Test (ASTM D 1557)". All tests shall be verified by a Soils Engineer concurrent with grading and backfilling operations. The compacted fill shall be free of rutting and shall be non-yielding and non-pumping during proofrolling and compaction.
- The contractor shall prevent all storm, surface water, mud and construction debris from entering the existing sanitary sewer system.
- All sanitary sewer flowlines and tops built without elevations furnished by the engineer will be the responsibility of the sewer contractor.
- Easements shall be provided for all sanitary sewers, storm sewers and all utilities on the record plat.
- All construction and materials shall conform to the current construction standards of the Duckett Creek Sanitary District.
- The Duckett Creek Sanitary District shall be notified at least 48 hours prior to construction for coordination of inspection.
- All sanitary sewer building connections shall be designed so that the minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding building connection shall not be less than the diameter of the pipe plus the vertical distance of 2 1/2 feet.
- All sanitary sewer manholes shall be waterproofed on the exterior in accordance with Missouri Department of Natural Resources specification 10 CSR-8.120(7)(E).
- All PVC sanitary sewer pipe shall conform to the requirements of ASTM D-3034 Standard Specification for PSM Polyvinyl Chloride Sewer Pipe, SDR-35 or equal, with "clean" 1/2 inch to 1 inch granular stone bedding uniformly graded, this bedding shall extend 4 inches below the pipe to springline of pipe. Immediate backfill over pipe shall consist of same size "clean" or "minus" stone from springline of pipe to 6 inches above the top of pipe.
- All sanitary and storm sewer trench backfills shall be water jetted. Granular backfill will be used under pavement areas.
- All pipes shall have positive drainage through manholes. No flat invert structures are allowed.
- All creek crossings shall be grouted rip-rap as directed by District inspectors. (All grout shall be high slump ready-mix concrete.)
- Brick shall not be used on sanitary sewer manholes.
- Existing sanitary sewer service shall not be interrupted.
- Maintain access to existing residential driveways and streets.
- Pre-manufactured adapters shall be used at all PVC to DIP connections. Rubber boot/Mission-type couplings will not be allowed.
- Any permits, licenses, easements or approvals to work on public or private properties or roadways are the responsibility of the developer.
- All sanitary sewer laterals shall be a minimum of 4" in diameter.

APPROVED

LEGEND

CL	CURB INLET	□	STREET LIGHT
D.C.I.	DOUBLE CURB INLET	---	EXISTING CONTOUR
AL	AREA INLET	---	PROPOSED CONTOUR
M.H.	MANHOLE	---	STREET SIGN
FL	FLARED END SECTION	---	NO PARKING SIGN
EP	END PIPE	---	WATER VALVE
CP	CONCRETE PIPE	---	BLOW OFF ASSEMBLY
R.C.P.	REINFORCED CONCRETE PIPE	---	FLOWLINE ELEVATION OF HOUSE CONNECTION
C.M.P.	CORRUGATED METAL PIPE	---	FLOWLINE ELEVATION OF SEWER MAIN
C.I.P.	CAST IRON PIPE	---	
P.V.C.	POLY VINYL CHLORIDE (PLASTIC)	---	
C.O.	CLEAN OUT	---	
★	FIRE HYDRANT	---	
○	STORM SEWER	---	
○	SANITARY SEWER	---	

SHEET INDEX

1	COVER SHEET
2	SITE PLAN
3	CONSTRUCTION DETAILS

STORM SEWER MEASUREMENTS

THE EXISTING SEWER LENGTHS, SIZES, FLOWLINES, DEPTHS OF STRUCTURES AND SEWERS AND LOCATIONS WITH RESPECT TO EXISTING OR PROPOSED EASEMENTS HAVE BEEN MEASURED. THE RESULTS OF THOSE MEASUREMENTS ARE SHOWN ON THIS SET OF FINAL MEASUREMENT PLANS.

ALL PUBLIC SEWERS ARE LOCATED WITHIN DESIGNATED EXISTING OR PROPOSED EASEMENTS EXCEPT AS NOTED.

DESIGNED BY: *[Signature]* DATE: 3/12/04

PROJECT NUMBER: 10589DCVASB

FILE NAME: ECF

DRAWN BY: *[Signature]*

DESIGNED CHECKED

LEGENDARY POINT

PREPARED FOR:

WILLIAM & JOAN SCHNEIDER
401 DONNIE LANE
ST. PETERS, MISSOURI 63376
(636) 240-4606

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REVISIONS

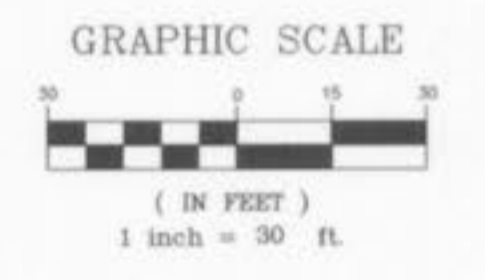
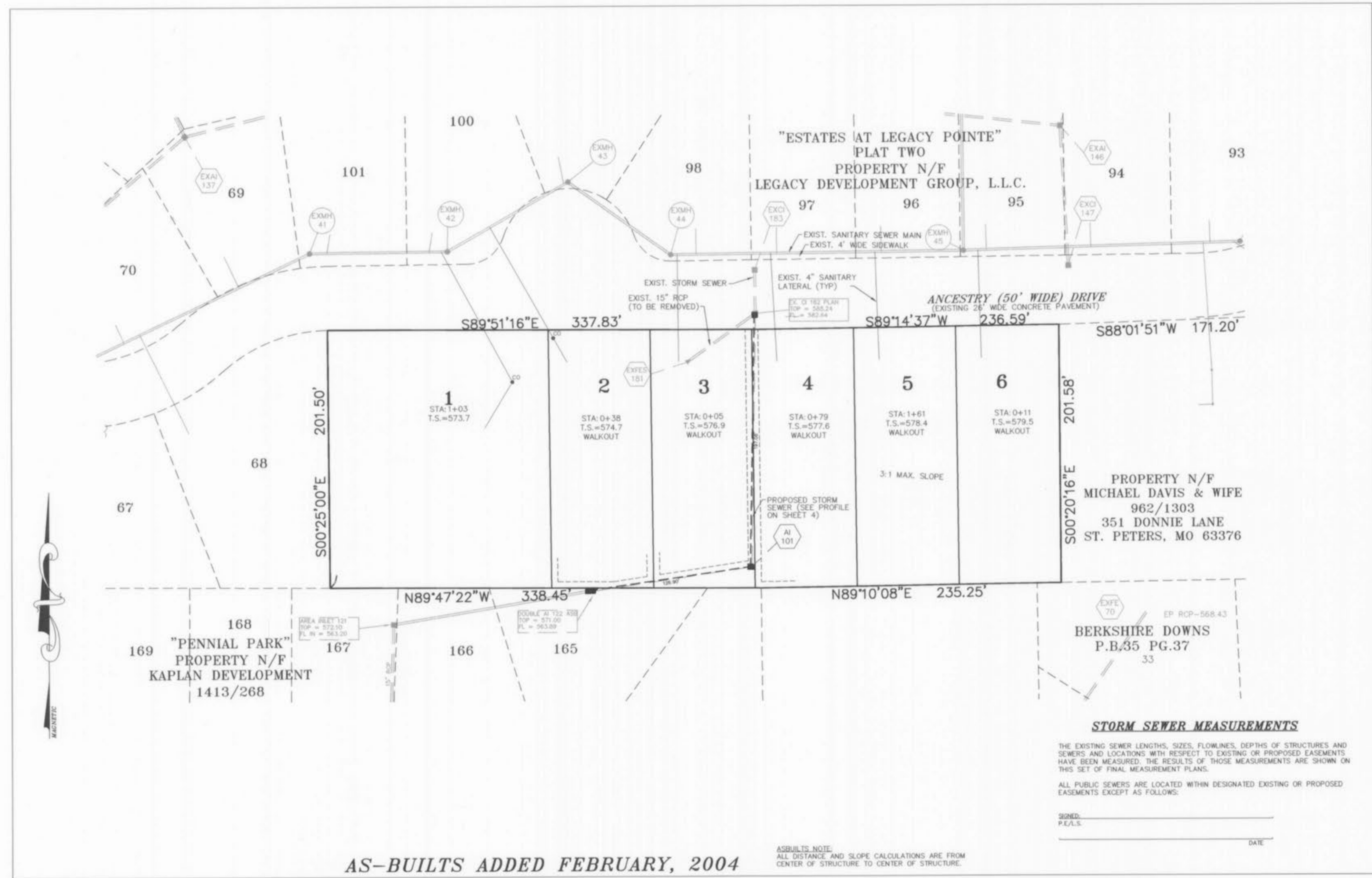
NO.	DESCRIPTION

**ENGINEERING
PLANNING
SURVEYING**

1052 South Cloverleaf Drive
St. Peters, MO. 63376-6445
636-928-5552
FAX 928-1718

02-12-04
DATE
99-10589D
PROJECT NUMBER
1 OF 3
SHEET OF
10589DCVASB
FILE NAME
ECF
DRAWN
DESIGNED CHECKED

Legendary Pt. Approved 3/12/04 ABC



STORM SEWER MEASUREMENTS

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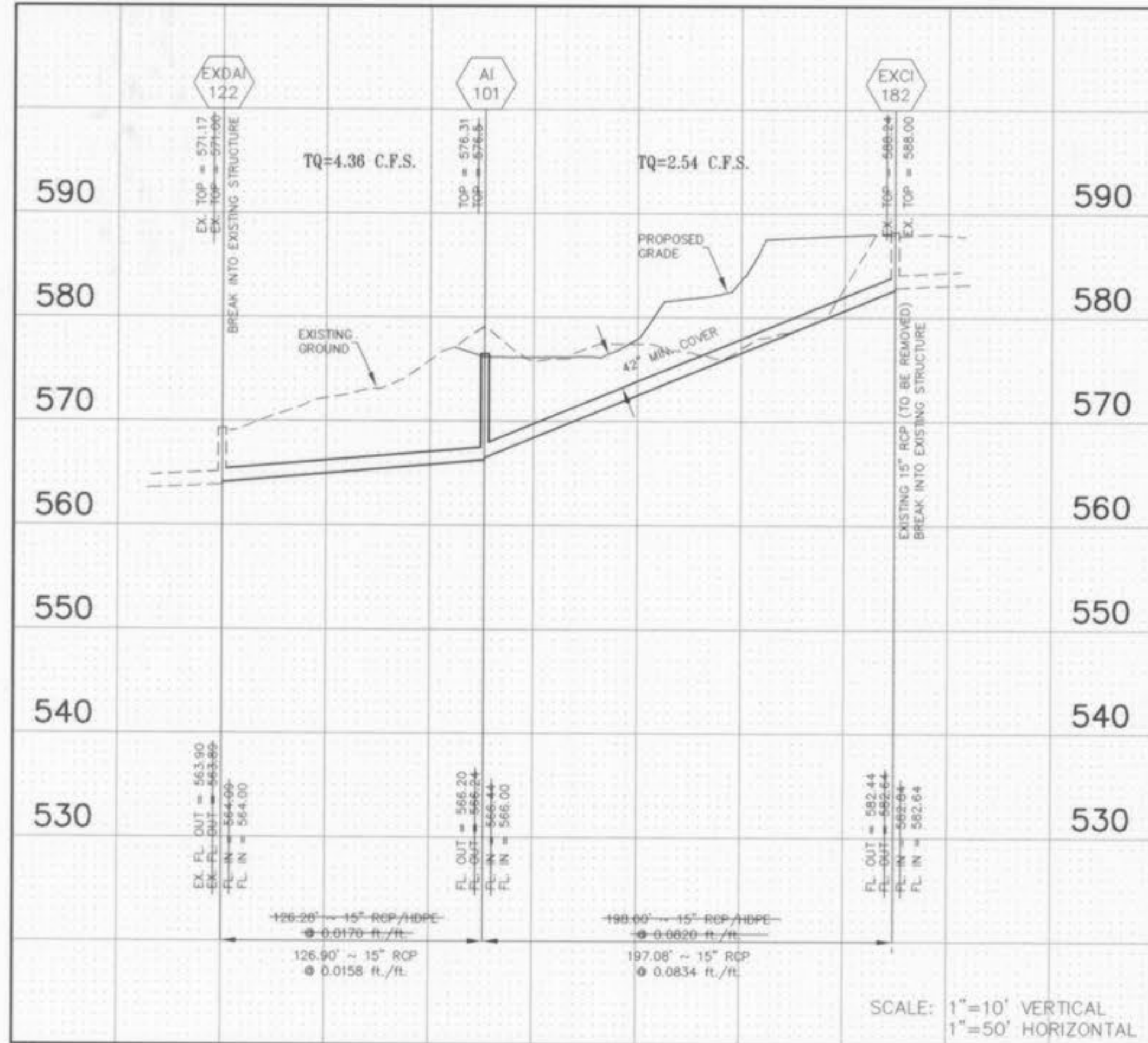
ALL PUBLIC SEWERS ARE LOCATED WITHIN DESIGNATED EXISTING OR PROPOSED EASEMENTS EXCEPT AS FOLLOWS:

SIGNED: _____
 P.E.A.S. _____
 DATE: _____

AS-BUILTS ADDED FEBRUARY, 2004

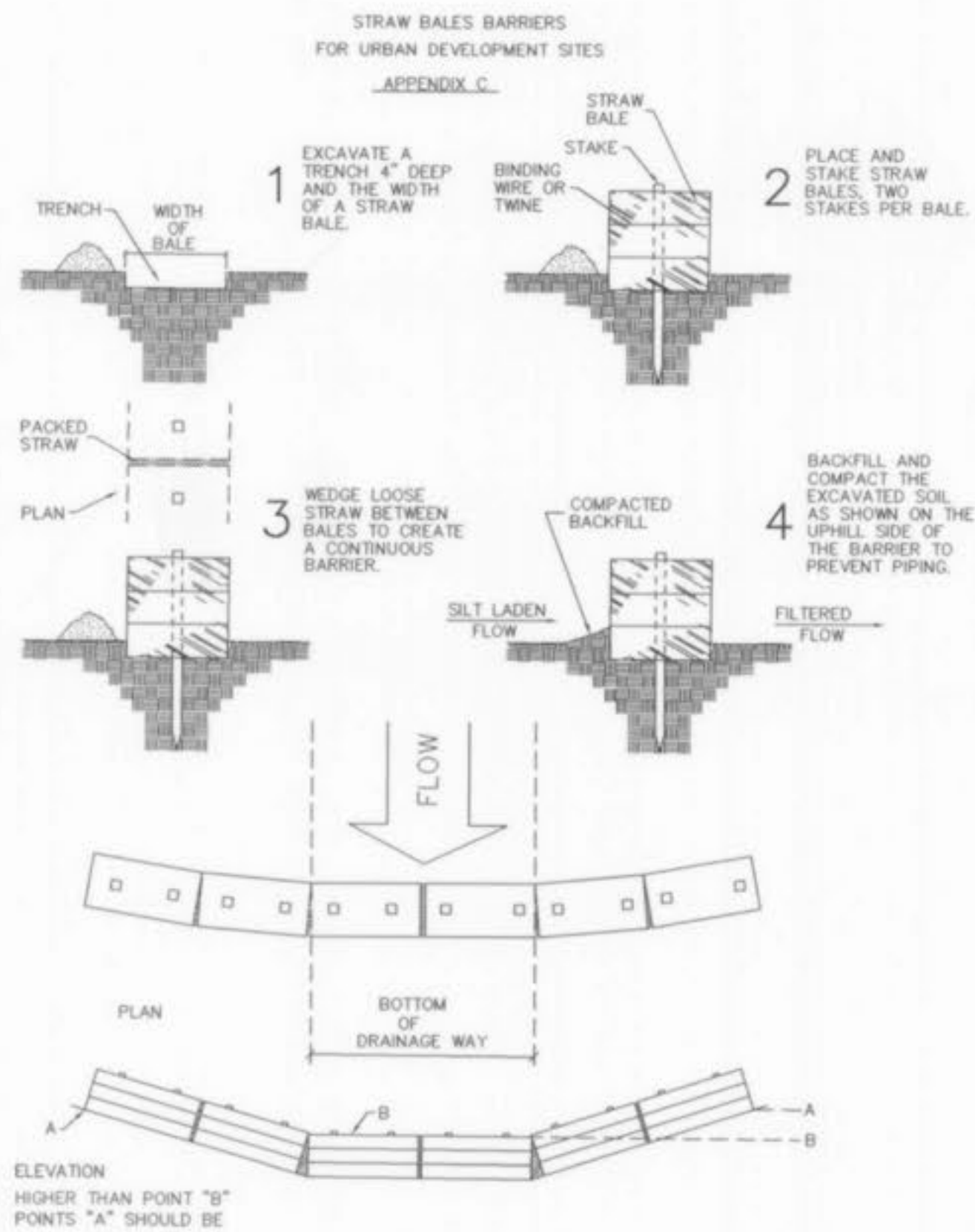
AS-BUILTS NOTE
 ALL DISTANCE AND SLOPE CALCULATIONS ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.



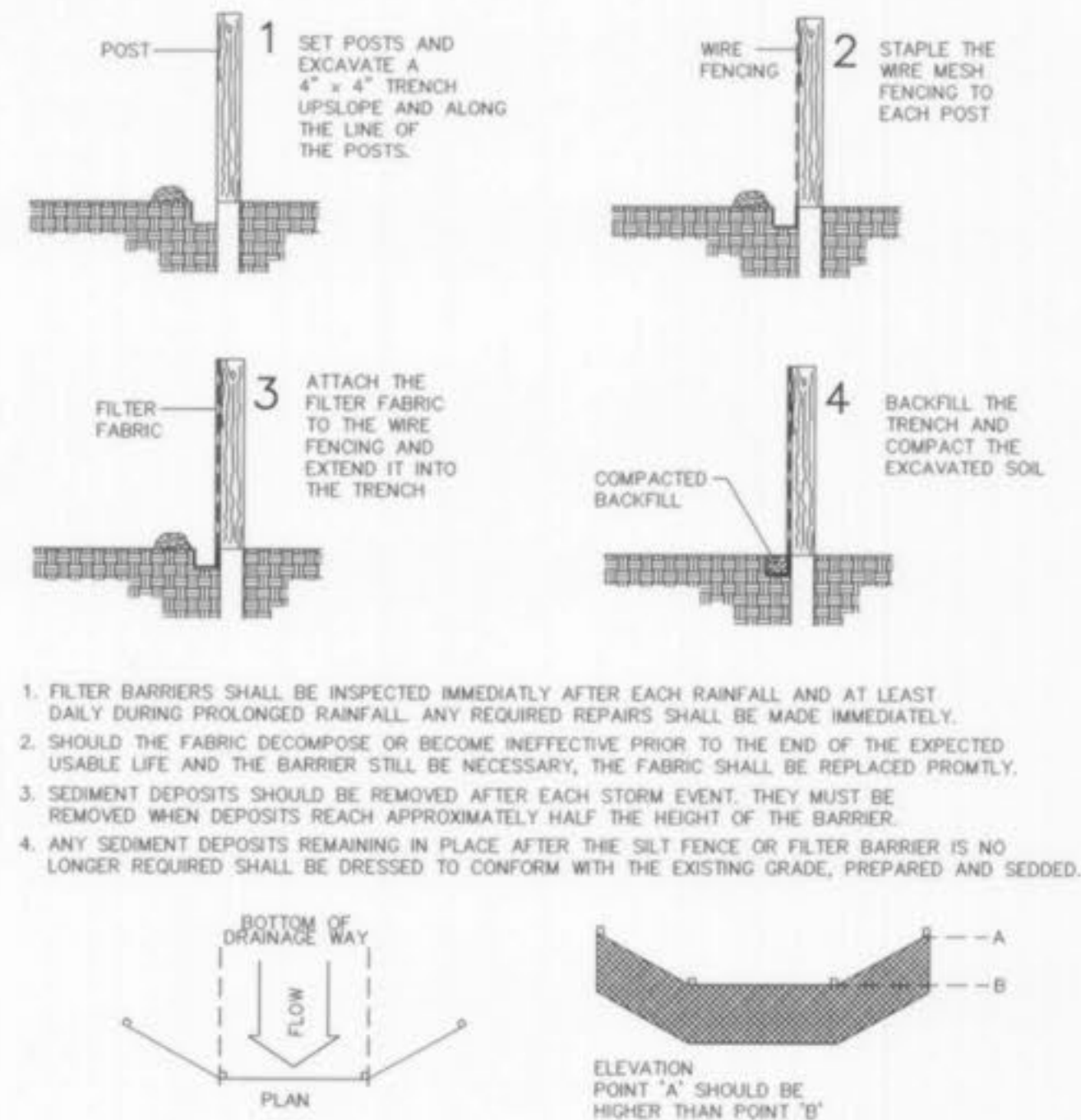


STORM PROFILE

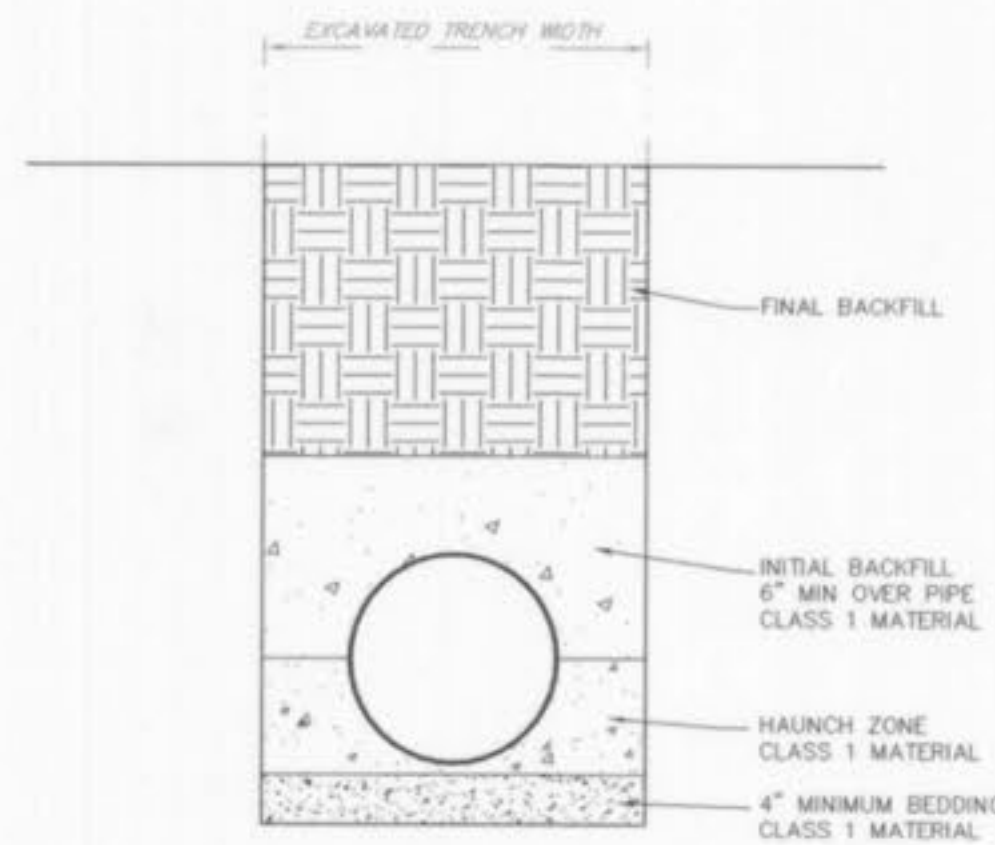
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PLACEMENT AND CONSTRUCTION OF A STRAW BALE BARRIER
 NOT TO SCALE



SILTATION FENCE DETAIL
 NOT TO SCALE

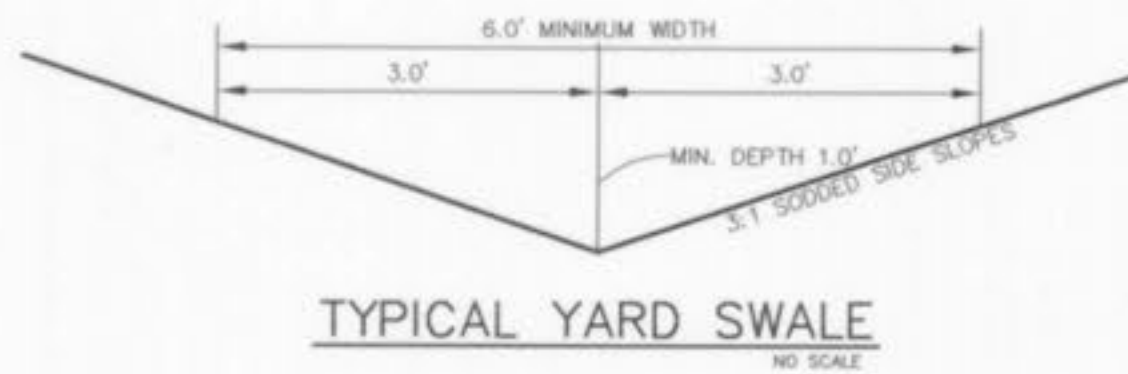


H.D.P.E. PIPE DETAIL

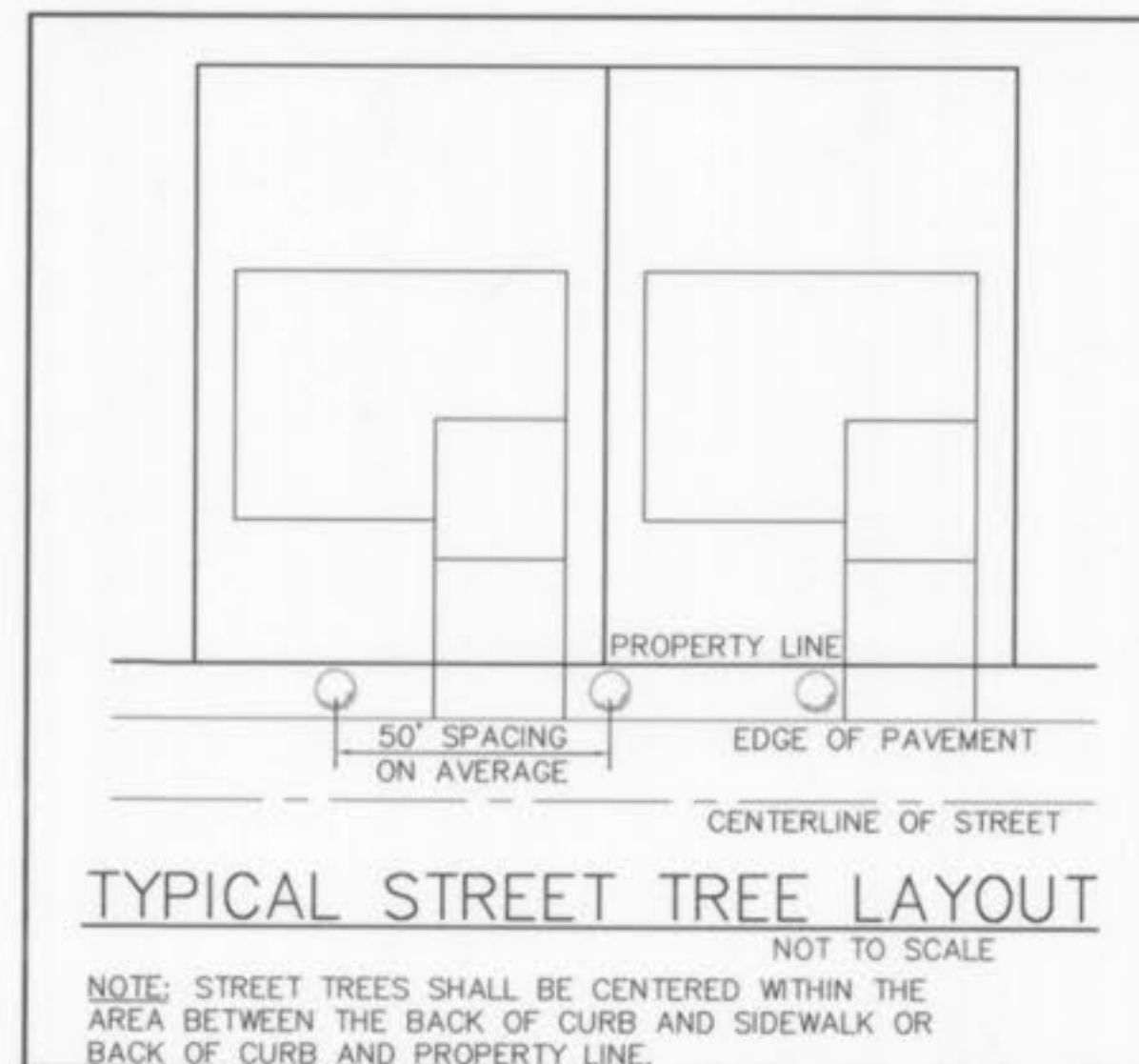
- The use of High Density Polyethylene Corrugated pipe A.D.S. N12 or Equal will be permitted as an acceptable alternative to reinforced concrete pipe, per City of St. Petersburg, in all areas outside City of St. Petersburg right-of-way. Pipe shall meet A.S.T.M. D-2321 and AASHTO M-294-921. Concrete flared end sections and inlet structures shall be required. Pipe must have smooth interior wall and is not to be used inside City of St. Petersburg Public Right-of-Way.
- All concrete pipe or HDPE pipe shall be installed with o-ring rubber type gaskets per M.S.D. Standard Construction Specifications or Manufacturer.
- In typical conditions the minimum trench width is determined by the size of the pipe and the ability to get compaction equipment between the pipe and the trench walls. The minimum trench width should not be less than the outside diameter plus 16 inches or the pipe outside diameter times 1.25 plus 12 inches, whichever is greater. High speed trenchers may enable satisfactory installation of pipe in narrower trenches. Poor in situ soil conditions such as peat, muck, running sands, or expansive clays will require substantially wider backfill as well as deeper foundation and bedding. Trench width and foundation depth should be based on a thorough site investigation.
- Backfill in the area up to the springline should be carefully placed and compacted to achieve a minimum E value of 1,000 psi as detailed in ASIM D2321. A minimum of 12\"/>

Maximum Discharge (Q) = 4.00 cfs
 Maximum Velocity (V) = 4.00 ft/sec
 N = 0.030 (grass)
 Maximum side slopes = 3 (horizontal) : 1 (vertical)

Longitudinal Slope (%)	Discharge (cfs)	Velocity (ft/sec)	Depth (ft)
0.5	1.89481682	0.838852789	
1.0	2.4572734	0.736618511	
2.0	3.118668934	0.646843926	
3.0	3.71000035	0.599490621	
4.0	3.51071886	0.54088907	
5.0	2.51206592	0.457535601	
6.0	1.91099529	0.399060698	
7.0	1.516488	0.355491239	
8.0	1.24122656	0.321613971	
9.0	1.04021299	0.294422173	
10.0	0.888149422	0.242052296	

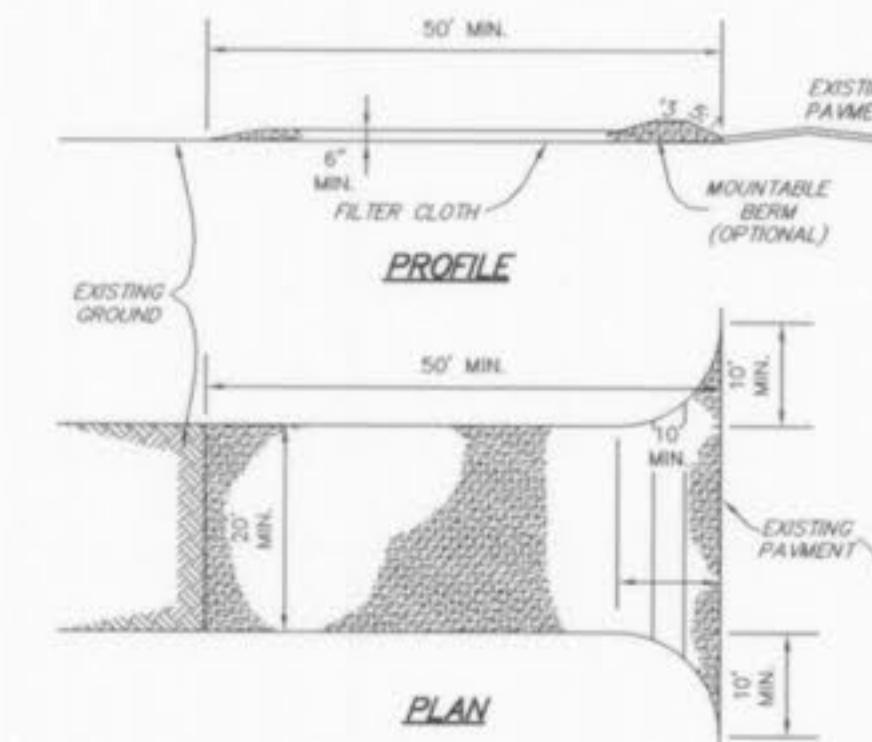


TYPICAL YARD SWALE
 NO SCALE



TYPICAL STREET TREE LAYOUT
 NOT TO SCALE

NOTE: STREET TREES SHALL BE CENTERED WITHIN THE AREA BETWEEN THE BACK OF CURB AND SIDEWALK OR BACK OF CURB AND PROPERTY LINE.

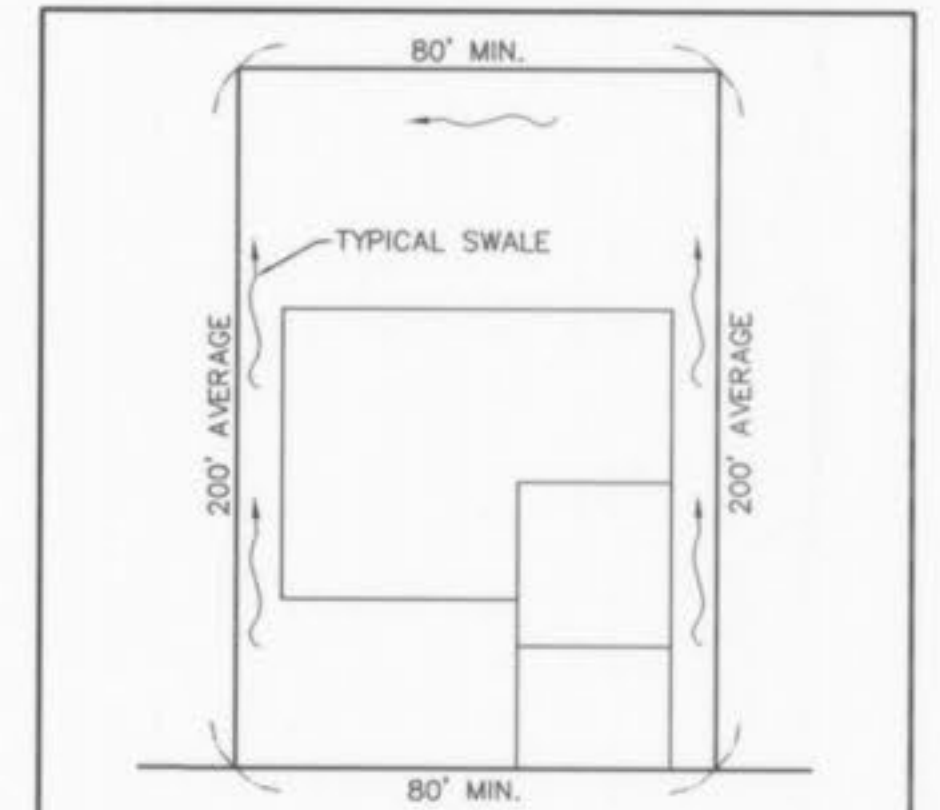


CONSTRUCTION ENTRANCE AND WASHDOWN AREA
 NOT TO SCALE

- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Twenty (20) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

CONSTRUCTION ENTRANCE AND WASHDOWN AREA
 NOT TO SCALE

TYPICAL YARD SWALE



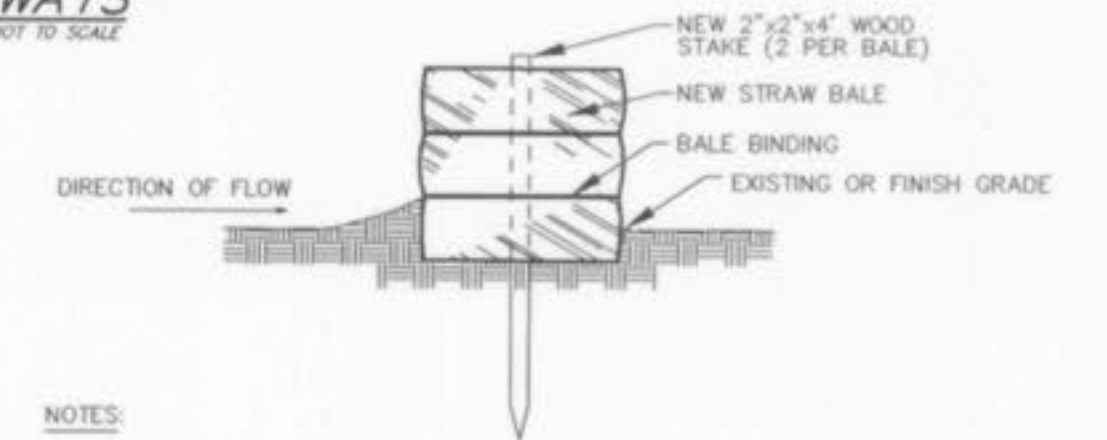
TYPICAL LOT LAYOUT WITH SWALES

6" MIN. SIDEYARDS NOT TO SCALE
 NOTE: DURING FINAL GRADING, LOTS SHALL BE GRADED TO DRAIN ACCORDING TO THE TYPICAL LOT LAYOUT



- NOTES:
- A 1" JOINT IS REQUIRED AT THE CURB AND GARAGE FOR ALL DRIVEWAYS LOCATED ON THE OUTER EDGE OF CURVED PAVEMENT.
 - A 1/2" JOINT IS REQUIRED AT THE CURB AND GARAGE FOR ALL DRIVEWAYS LOCATED ON TANGENT SECTIONS OF PAVEMENT OR ON THE INNER EDGE OF CURVED PAVEMENT.
 - EXPANSION JOINT MATERIAL MUST EXTEND THROUGH THE FULL DEPTH OF THE PAVEMENT.

INTEGRAL CURB DETAIL "B" AT DRIVEWAYS
 NOT TO SCALE



- NOTES:
- STRAW BALES, NOT HAY BALES SHALL BE USED.
 - BUTT ENDS OF BALES TIGHTLY TOGETHER.
 - INSTALL BALES WITH BINDING AROUND SIDES, NOT TOP AND BOTTOM.
 - FILL ANY GAP BETWEEN BALES BY WEDGING LOOSE STRAW BETWEEN THEM.

SEDIMENT BARRIER
 NO SCALE

VEGETATIVE ESTABLISHMENT
 For Urban Development Sites
 APPENDIX A

- Seeding Rates:
 Permanent:
 Tall Fescue - 30 lbs./ac.
 Smooth Brome - 20 lbs./ac.
 Combined Fescue @ 15 lbs./ac. and Brome @ 10 lbs./ac.
- Temporary:
 Wheat or Rye - 150 lbs./ac. (3.5 lbs. per square foot)
 Oats - 120 lbs./ac. (2.75 lbs. per square foot)
- Seeding Periods:
 Fescue or Brome - March 1 to June 1
 August 1 to October 1
 Wheat or Rye - March 15 to November 1
 Oats - March 15 to September 15
- Mulch Rates: 100 lbs. per 1,000 sq. feet (4,356 lbs. per acre)
- Fertilizer Rates:
 Nitrogen 30 lbs./ac.
 Phosphate 30 lbs./ac.
 Potassium 30 lbs./ac.
 Lime 600 lbs./ac. ENM*
- * ENM = effective neutralizing material as per State evaluation of quarried rock.

STORM SEWER MEASUREMENTS

THE EXISTING SEWER LENGTHS, SIZES, FLOWLINES, DEPTHS OF STRUCTURES AND SEWERS AND LOCATIONS WITH RESPECT TO EXISTING OR PROPOSED EASEMENTS HAVE BEEN MEASURED. THE RESULTS OF THOSE MEASUREMENTS ARE SHOWN ON THIS SET OF FINAL MEASUREMENT PLANS.

ALL PUBLIC SEWERS ARE LOCATED WITHIN DESIGNATED EXISTING OR PROPOSED EASEMENTS EXCEPT AS FOLLOWS:

OWNER: *[Signature]*
 P.E.A.S. *[Signature]*
 DATE: *[Signature]*

KAWOLENSKI
 NUMBER
 LS-2197
 2004

AS-BUILTS NOTE:
 ALL DISTANCE AND SLOPE CALCULATIONS ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.