



LOCATION MAP  
NOT TO SCALE

**PLANNING AND ZONING CONDITIONS:**

On July 17, 2008, the Planning and Zoning Commission approved the above referenced request.

The approval is conditional upon the following Staff recommendations being met:

1. The items included in the letter by MoDOT shall be addressed on the Construction Plans.
2. The items included by Duckett Creek Sanitary Dist. shall be addressed on the Construction Plans.

The approval is also conditional upon the following Municipal Code requirements being provided in conjunction with the Construction Site Plans:

1. Extend the outfall pipe from the detention basin closer to the flow line of the creek. An off-site easement from the current property owner will be required.
2. Indicate on the plan the methods that will be used to comply with NPDES Phase II storm water requirements.
3. Approval of the construction plan is contingent upon the school providing the County with the necessary ROW and Easements needed for the Sommers Road Construction Project.

**Please Note:**

- The Site Plan Certificate shall expire, and be of no effect, one hundred eighty (180) days after the date of issuance thereof, unless within such time a Building Permit for any proposed work authorized under said site certificate has been issued. The Site Plan Certificate shall expire and be of no effect three hundred and sixty (360) days after the date of its issuance, if construction has not begun and been pursued diligently on the property. (Ord. No. 1161 § 27.07, 10-16-04)
- Prior to approval of a Building Permit, a Construction Site Plan must be reviewed and approved by City Staff. A letter and checklist outlining the Construction Site Plan process will be forwarded to you shortly.
- The appropriate Fire District will need to review and approve the development.
- Any signage to be placed on the property requires a separate Sign Permit.
- Any business occupying the site requires approval of a Business License.

**O'FALLON NOTES**

1. 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.
2. All filled places under proposed storm and sanitary sewer, proposed roads, and/or paved areas shall be compacted to 95% of the maximum density as determined by the "Modified AASHTO T-180 Compaction Test" or 100% of maximum density as determined by the Standard Proctor Test AASHTO T-99. All tests shall be verified by a soils engineer concurrent with grading and backfilling operations. All filled places in proposed roads shall be compacted from the bottom up. All test shall be verified by a soils engineer concurrent with grading and backfilling operations. Ensure the moisture content of the soil in the fill areas is to correspond to the moisture content of the soil in the field prior to the placement of fill. Proof rolling may be required to verify soil stability at the discretion of the City of O'Fallon.
3. No area shall be cleared without the permission of the Project Engineer.

**O'FALLON NOTES (CONTINUED)**

27. Developer must supply City Construction inspectors with soil reports prior to or during site soil testing. The soil report will be required to contain the following information on soil test curves (Proctor reports) for projects within the City:
  1. Maximum dry density.
  2. Optimum moisture content.
  3. Maximum and minimum allowable moisture content.
  4. Curve must be plotted to show density from a minimum of 90% Compaction and above as determined by the "Modified AASHTO T-180 Compaction Test" (A.S.T.M.-D-1157) or from a minimum of 95% as determined by the "Standard Proctor Test AASHTO T-99, Method C" (A.S.T.M.-D-698). Proctor type must be designated on document.
  5. Curve must have at least 5 density points with moisture content and sample locations listed on document.
  6. Specific gravity.
  7. Natural moisture content.
  8. Liquid limit.
  9. Plastic limit.
 Be advised that if this information is not provided to the City's Construction Inspector the City will not allow grading or construction activities to proceed on any project site.

A SET OF AS-BUILT PLANS FOR A  
**NEW ELEMENTARY SCHOOL**  
AT 2523 SOMMERS ROAD  
A TRACT OF AND BEING  
PART OF FRACTIONAL SECTION 15,  
TOWNSHIP 46 NORTH, RANGE 2 EAST  
OF THE FIFTH PRINCIPAL MERIDIAN  
ST. CHARLES COUNTY, MISSOURI



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1-800-DIG-RITE

**GRADING NOTES:**

14. 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.
15. No slope shall be steeper than 3(Horizontal):1(Vertical). All slopes shall be sodded or seeded and mulched.
16. Any contaminated soil encountered during excavation shall be hauled and placed as directed by the owners environmental engineering representative.

**DEVELOPMENT NOTES:**

1. Area of Tract: 15.169 Acres (15.169 Acres disturbed)
2. Existing Zoning: R-1 (City of O'Fallon)
3. Proposed Use: Elementary School
4. Building Area: Base Bid 43,650 sq.ft. Alternate #1 6,575 sq.ft. Alternate #2 31,420 sq.ft. Total 81,645 sq.ft.
5. The required building setbacks are as follows:  
Front yard: 25 feet  
Side yard: 6 feet  
Rear yard: 25 feet  
10 feet along lot perimeter
6. Property Owner: Wentzville School District  
One Campus Drive  
Wentzville, Mo 63385  
636-327-3800  
Dr. Terry Adams

**DEVELOPMENT NOTES:**

20. A Storm Water Pollution Prevention Plan (SWPPP) is to be submitted to the city for review of siltation control that is to be installed prior/during site grading. A plan will be submitted to the city engineering department in the improvement plans for this review. The SWPPP plan shall follow the "St. Charles County Soil and Water Conservation District Erosion and Sediment Control" guidelines.
21. This site is to comply with Phase II Illicit storm water discharge guidelines per Ordinance 5082. Construction plan submittal to include ways in which this requirement is met for review.
22. All new utilities on site are to be located underground.
23. Maximum slopes on site are not to exceed 3:1.
24. Truncated Domes for curb ramps located in public Right-of-Way or to be maintained by the city shall be constructed using red pre-cast truncated domes such as those manufactured by Armor Tile (or approved equal) that are cast in concrete during construction and shall meet ADA requirements. No curb ramps are proposed in ROW under this development as the County road project will be providing the sidewalk under their road design.
25. All paving to be in accordance with St. Charles County standards and specifications except as modified by the City of O'Fallon ordinances.
26. All recommendations of the St. Charles County Road Board shall be followed.
27. All proposed fencing requires a separate permit through the Planning Division.
28. All storm sewers onsite are private and will be maintained by the School District.
29. All construction methods and practices to conform with OSHA Standards.

**PRINCIPLES & STANDARDS:**

1. All excavations, grading, or filling shall have a finished grade not to exceed a 3:1 slope (33 %). Steeper grades may be approved by the designated official if the excavation is through rock or the excavation or the fill is adequately protected (a designed head wall or toe wall may be required). Retaining walls that exceed a height of four (4) feet shall require the construction of safety guards as identified in the appropriate section(s) of the adopted BOCA Codes and must be approved by the Building Department. Permanent safety guards will be constructed in accordance with the appropriate section(s) of the adopted BOCA Codes.
2. Sediment and erosion control plans for sites that exceed 20,000 square feet of grading shall provide for sediment or debris basins, silt traps or filters, staked straw bales or other approved measures to remove sediment from run-off waters. The design to be approved by the Designated Official. Temporary siltation control measures (structural) shall be maintained until vegetative cover is established at a sufficient density to provide erosion control on the site.
3. Where natural vegetation is removed during grading, vegetation shall be reestablished in such a density as to prevent erosion. Permanent type grasses shall be established as soon as possible during the next seeding period after grading has been completed.
4. When grading operations are completed or suspended for more than 30 days permanent grass must be established at sufficient density to provide erosion control on the site. Between permanent grass seeding periods, temporary cover shall be provided according to the City Engineer's recommendations. All finished grades (areas not to be disturbed by future improvement) in excess of 20% slopes (5:1) shall be mulched and tacked at the rate of 100 pounds per 1,000 square feet when seeded.
5. Provisions shall be made to accommodate the increased runoff caused by changed soils and surface conditions during and after grading. Unvegetated open channels shall be designed so that gradients result in velocities of 2 fps (feet per second) or less. Open channels with velocities more than 2 fps and less than 5 fps shall be established in permanent vegetation by use of commercial erosion control blankets or lined with rock rip rap or concrete or other suitable materials as approved by the City Engineer. Detention basins, diversions, or other appropriate structures shall be constructed to prevent velocities above 5 fps.
6. The adjoining ground to development sites (lots) shall be provided with protection from accelerated and increased surface water, silt from erosion, and any other consequence of erosion. Run-off water from developed areas (parking lots, paved sites and buildings) above the area to be developed shall be directed to diversions, detention basins, concrete gutters and/or underground outlet systems. Sufficiently anchored straw bales may be temporarily substituted with the approval of the City Engineer.
7. Development along natural watercourses shall have residential lot lines, commercial or industrial improvements, parking areas or driveways set back a minimum of 25 feet from the top of the existing stream bank. The watercourse shall be maintained and made the responsibility of the subdivision trustees or in the case of a site plan by the property owner. Permanent vegetation should be left intact. Variances will include designed stream bank erosion control measures and shall be approved by the City Engineer, FEMA and U.S. Army Corps of Engineers guidelines shall be followed where applicable regarding site development areas designated as flood plains and wetlands.
8. All lots shall be seeded and mulched at the minimum rates defined in Appendix A or sodded before an occupancy permit shall be issued except that a temporary occupancy permit may be issued by the Building Department in cases of undue hardship because of unfavorable ground conditions.

**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 1,000 square foot)  
Oats - 120 lbs./ac. (2.75 lbs. per 1,000 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.

**SITE INFORMATION:**

1. Basis of bearings for this survey adopted from the record plat of "Weldon Springs Gardens" as recorded in plot book 4 page 179 of the St. Charles County records.
2. This property is currently vested in the name of Wentzville R-IV School District by deed recorded in book 3948 page 402 of the St. Charles County records.
3. This property is currently listed under parcel locator number 4-0046-s015-00-4 in the St. Charles County assessors office.
4. All ties shown on are perpendicular to the property lines to which they are tied unless noted otherwise.
5. Only above ground utilities which have been located are shown on this plan. Underground utilities have been shown based on the respective utility company base maps only. These utilities should be verified before design or construction, if any begins on this project.
6. Reference benchmark RM19 - elevation 536.06 ngv29 (usgs) datum chiseled square on wingwall at the northwest corner of county highway dd bridge over the Dardenne creek
7. Site benchmark: elevation 583.97 old cross on curb 42± north of and 235± east of the northwest property corner of subject property, at the northeast corner of the intersection of Fox Wood drive and Fox Valley drive.

Manufacturer	Size	Adhesive	Style	Message (Part #)	Website
ACP International	3 7/8"	Epoxy	Crystal Cap	No Dumping Drains To Waterways (SD-W-CC)	www.acpinternational.com
DAS Manufacturing, Inc.	4"	Epoxy	Standard	No Dumping Drains To Stream (#SDS)	www.dasmanufacturing.com

**GRADING NOTES:**

1. 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 back filling operations.
2. The grading contractor shall perform a complete grading and compaction operation as shown on the plans, stated in these notes, or reasonably implied therefrom, all in accordance with the plans and notes as interpreted by the Geotechnical Engineer.
3. The Contractor shall notify the Soils Engineer at least two days in advance of the start of the grading operation.
4. All areas shall be allowed to drain. All low points shall be provided with temporary ditches.
5. 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 over the winter without being seeded and mulched. Care should be exercised to prevent soil from damaging adjacent property and siting up existing downstream storm drainage system.
6. Any existing trash and debris currently on this property must be removed and disposed of off-site.
7. Soft soil in the bottom and banks of any existing or former pond sites or tributaries should be removed, spread out and permitted to dry sufficiently to be used as fill. None of this material should be placed in proposed right-of-way locations or on storm sewer locations.
8. 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 unsuitable 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.
9. 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.
10. 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.
11. 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.
12. All areas to receive fill shall be scarified to a depth of not less than 5 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.
13. 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.

**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:

SIGNED: \_\_\_\_\_  
P.E./L.S.  
DATE: \_\_\_\_\_

5/03/12

JULY 17, 2008 CITY FILE #3407.03

**STANDARD SYMBOLS & ABBREVIATIONS**

TREE OR BUSH	⊙
LIGHT POLE	⊙
SANITARY SEWER & MANHOLE	⊙
STORM SEWER & INLET	⊙
MAILBOX	⊙
ELECTRIC LINE	—E—
GAS LINE	—G—
WATER LINE	—W—
TELEPHONE LINE	—T—
CABLE TV LINE	—CATV—
OVERHEAD WIRE	—OHW—
UTILITY POLE	⊙
UTILITY POLE W/ DOWN GUY	⊙
FIRE HYDRANT	⊙
WATER VALVE	⊙
WATER METER	⊙
GAS VALVE	⊙

**SHEET INDEX CIVIL:**

SHEET 1	COVER SHEET
SHEET 2	SITE PLAN
SHEET 3	GRADING PLAN
SHEET 4	PROFILES
SHEET 5	PROFILES
SHEET 6	DETAILS

**GRADING QUANTITY**  
54,901 cu.yds.  
(INCLUDES 8% SHRINKAGE)

THE ABOVE YARDAGE IS AN APPROXIMATION ONLY. NOT FOR BIDDING PURPOSES. CONTRACTORS SHALL VERIFY QUANTITIES PRIOR TO CONSTRUCTION.

SOMMERS ROAD ELEMENTARY SCHOOL - PHASE 1, 1.5 AND 2  
2523 SOMMERS ROAD  
OF FALLOON, MISSOURI



221 Post West Blvd.  
St. Charles, MO 63301  
636-499-5556  
FAX 636-499-1716

CONSULTING ENGINEERS:  
HOENER ASSOCIATES, INC.  
ARCHITECTS  
MECHANICAL/ELECTRICAL/PLUMBING ENGINEERING ASSOC.  
BOX ENGINEERING  
DENNIS G. GLORE, INC.  
FOOD SERVICE

WENTZVILLE R-IV SCHOOL DISTRICT  
HOENER ASSOCIATES, INC.  
ARCHITECTS  
ST. LOUIS, MISSOURI

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job no. 05-06B

date issued

NOVEMBER 16, 2010

date revised

02/11/11 DCSO COMMENTS

09/21/11 CITY COMMENTS

04/18/12 O.S. 101

drawn by JLH

checked by SWR

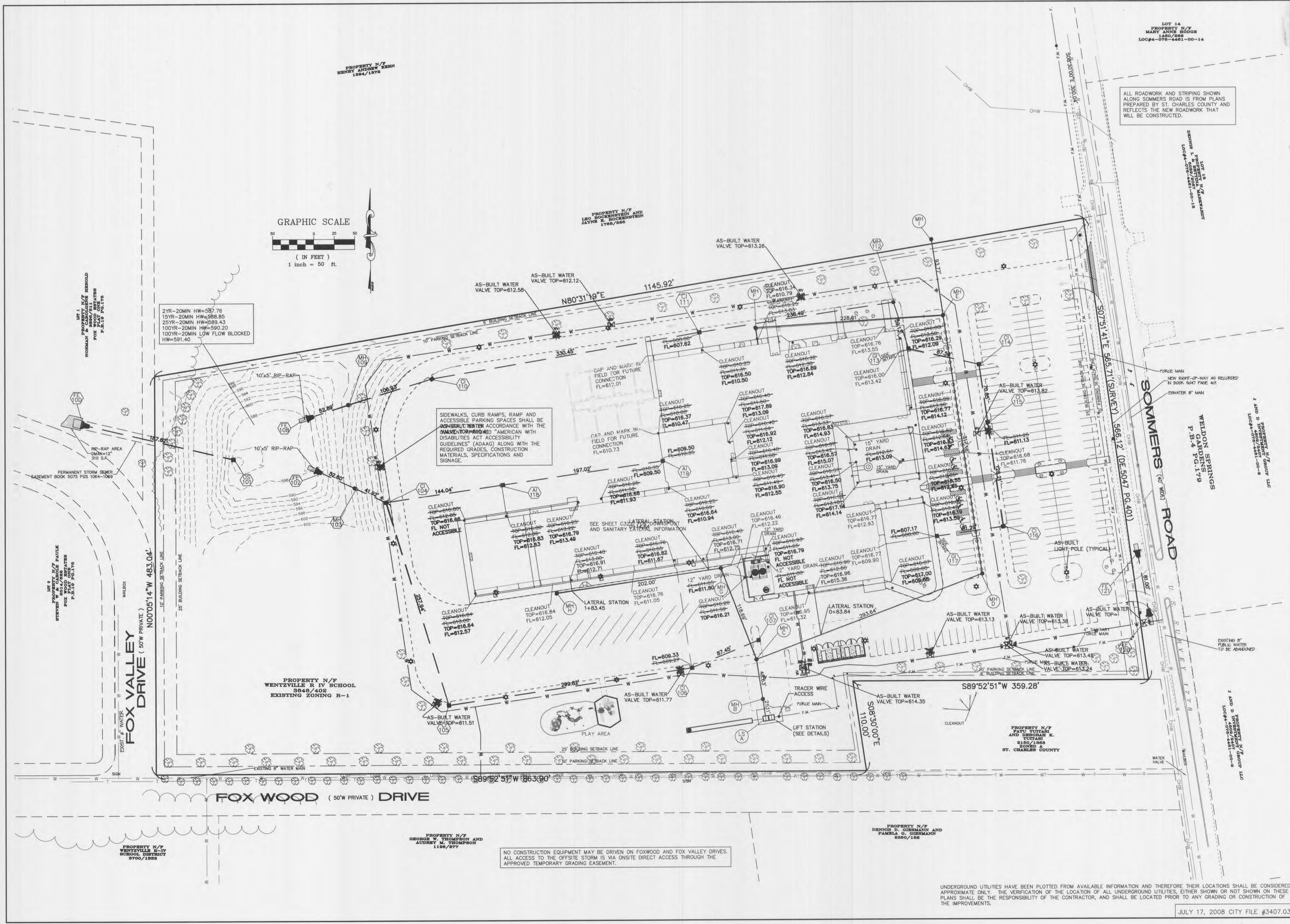
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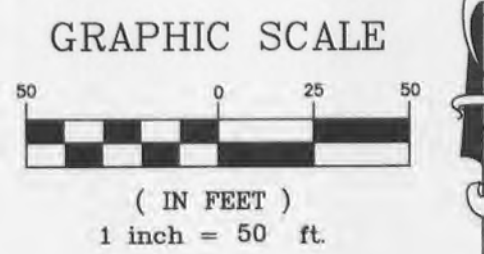
COVER

DATE: 5/03/12





ALL ROADWORK AND STRIPING SHOWN ALONG SOMMERS ROAD IS FROM PLANS PREPARED BY ST. CHARLES COUNTY AND REFLECTS THE NEW ROADWORK THAT WILL BE CONSTRUCTED.



2YR-20MIN HW=587.76  
 15YR-20MIN HW=588.85  
 25YR-20MIN HW=593.43  
 100YR-20MIN HW=590.20  
 100YR-20MIN LOW FLOW BLOCKED HW=591.40

SIDEWALKS, CURB RAMPS, RAMP AND ACCESSIBLE PARKING SPACES SHALL BE AS-BUILT WATER ACCORDANCE WITH THE MARKER-TOP-PROVIDED "AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) ALONG WITH THE REQUIRED GRADES, CONSTRUCTION MATERIALS, SPECIFICATIONS AND SIGNAGE.

NO CONSTRUCTION EQUIPMENT MAY BE DRIVEN ON FOXWOOD AND FOX VALLEY DRIVES. ALL ACCESS TO THE OFFSITE STORM IS VIA ONSITE DIRECT ACCESS THROUGH THE APPROVED TEMPORARY GRADING EASEMENT.

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.

JULY 17, 2008 CITY FILE #3407.03



3/6/12

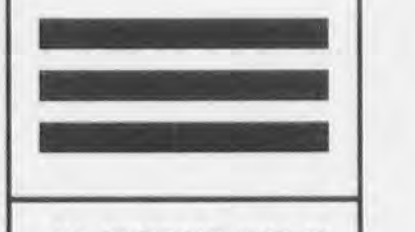
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 PROPERTY N/P  
 MARY ANNE HODGE  
 1840/288  
 LOC#4-078-4461-00-14

ENGINEERING  
 PLANNING  
 SURVEYING

CONSULTING ENGINEERS:  
 ABS CONSULTING, INC.  
 MCCLURE ENGINEERING ASSOC.  
 BAX ENGINEERING  
 DENNIS G. GLORE, INC.

STRUCTURAL  
 MECH/ELEC/PLUMB  
 CIVIL  
 FOOD SERVICE

HOENER ASSOCIATES, INC.  
 ARCHITECTS  
 ST. LOUIS, MISSOURI



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job no. 05-068  
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 date revised

02/11/11 DCSD COMMENTS  
 09/21/11 CITY COMMENTS  
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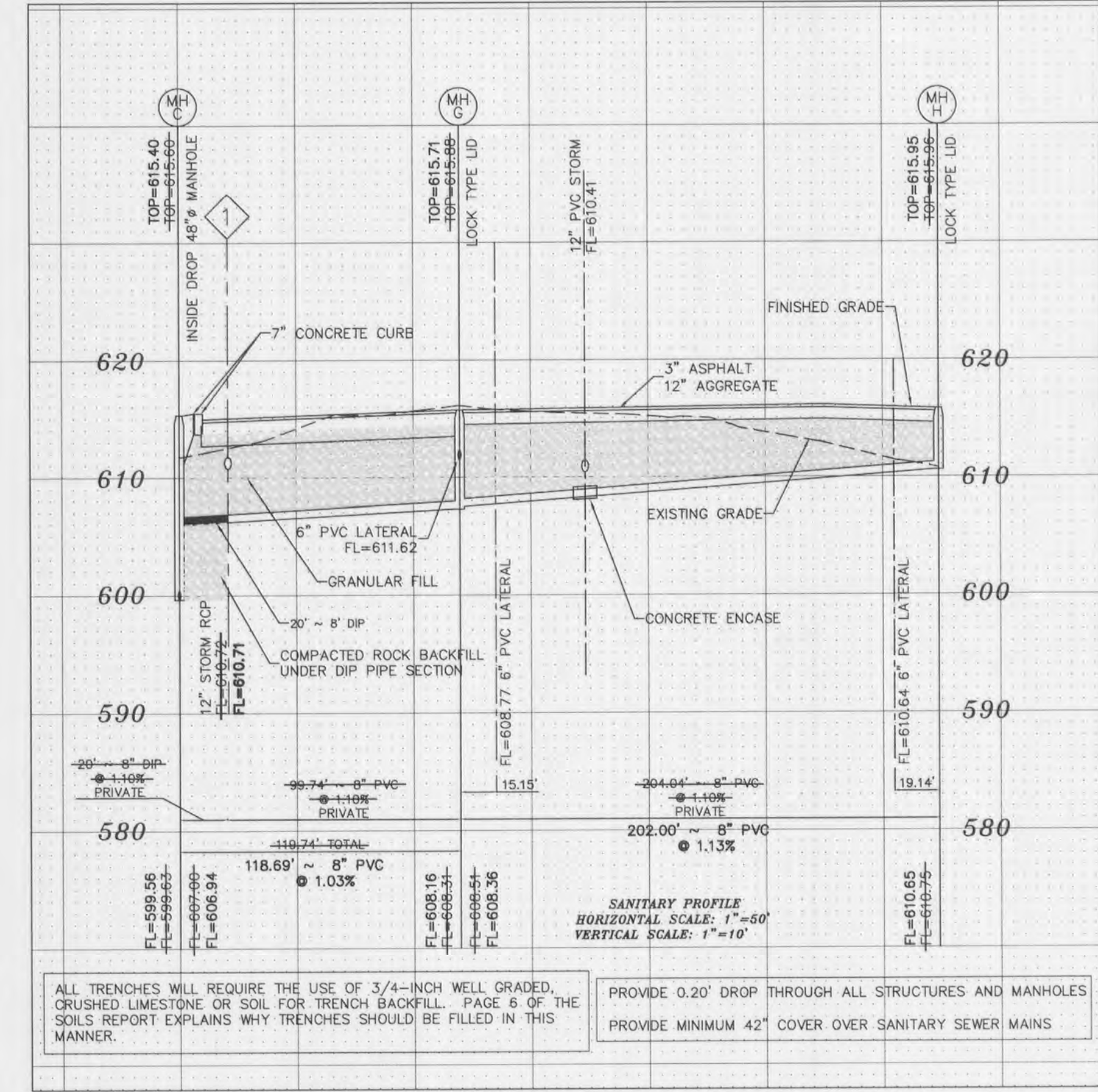
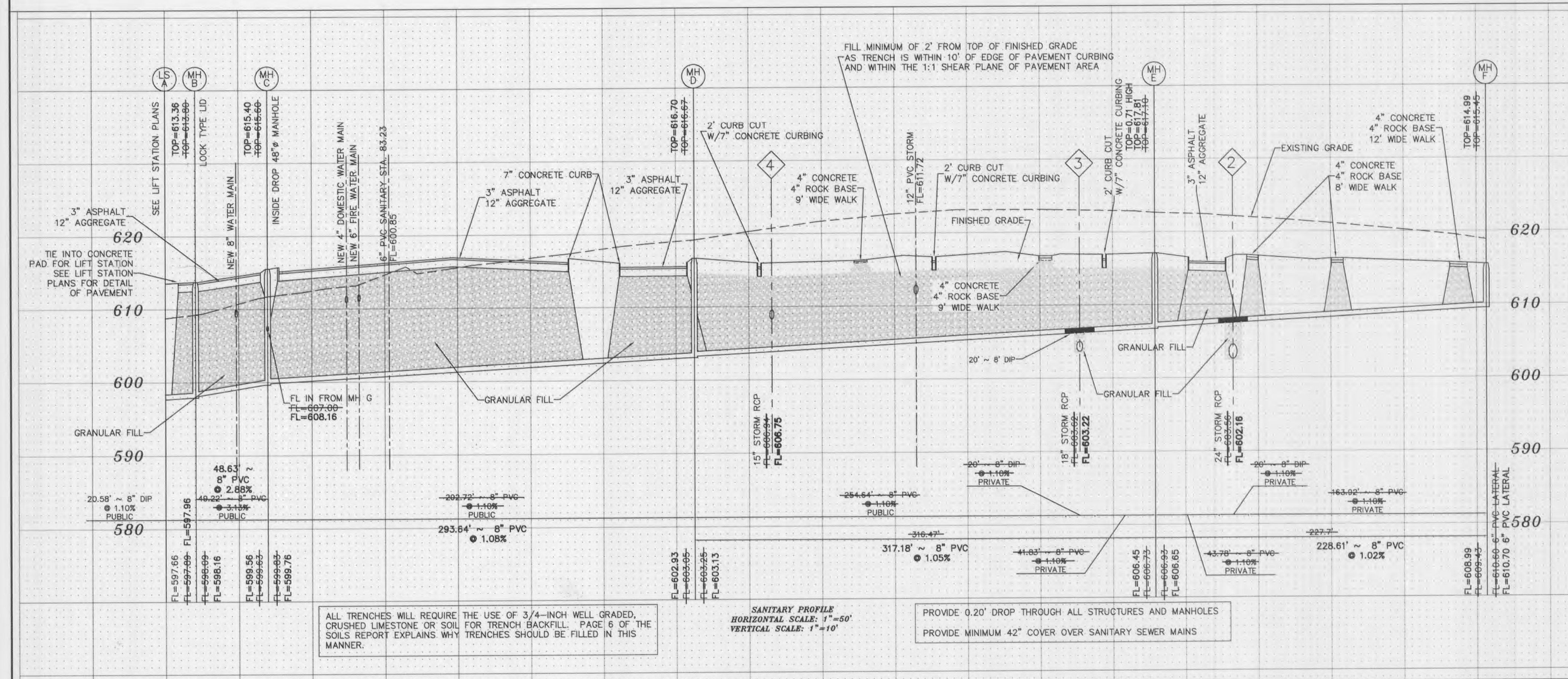
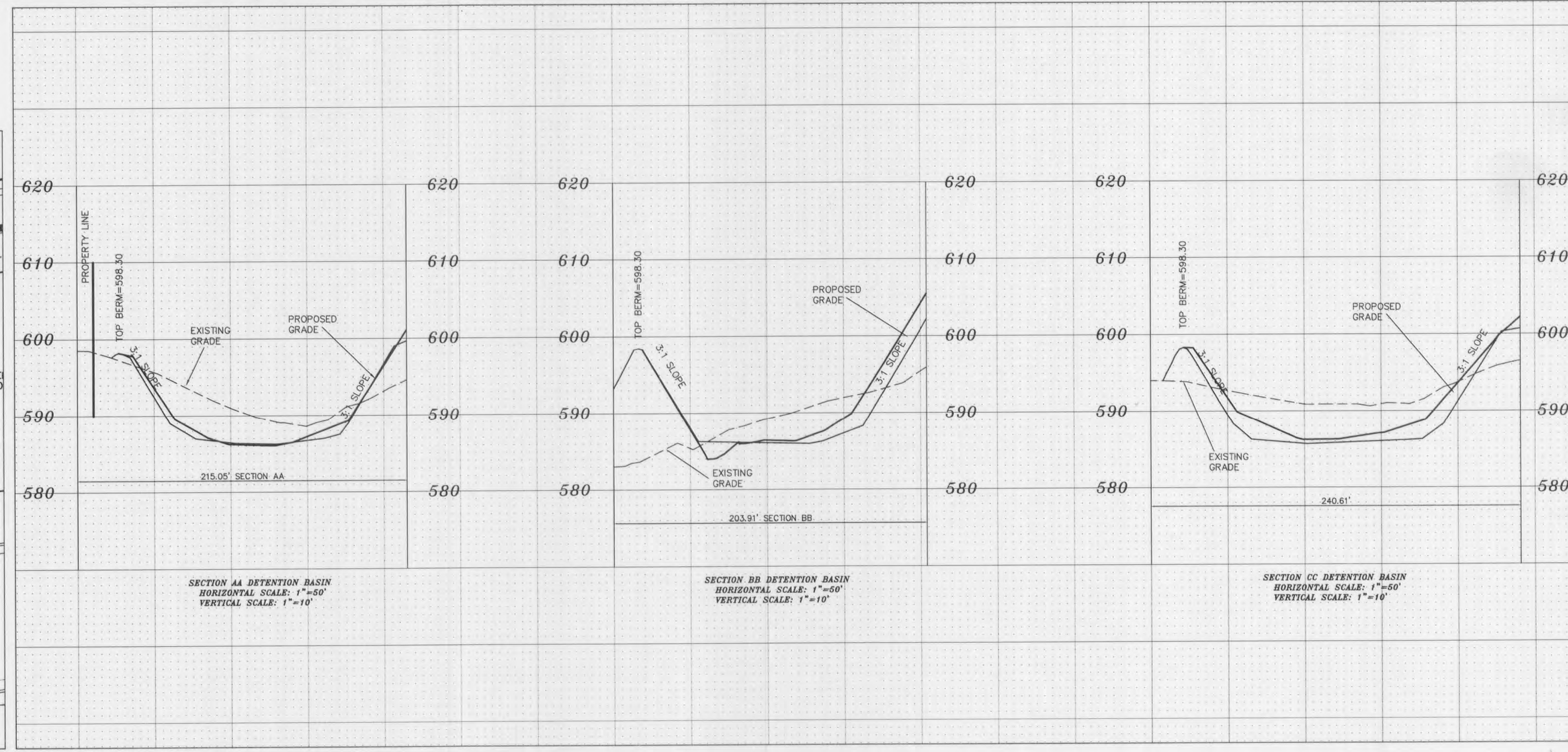
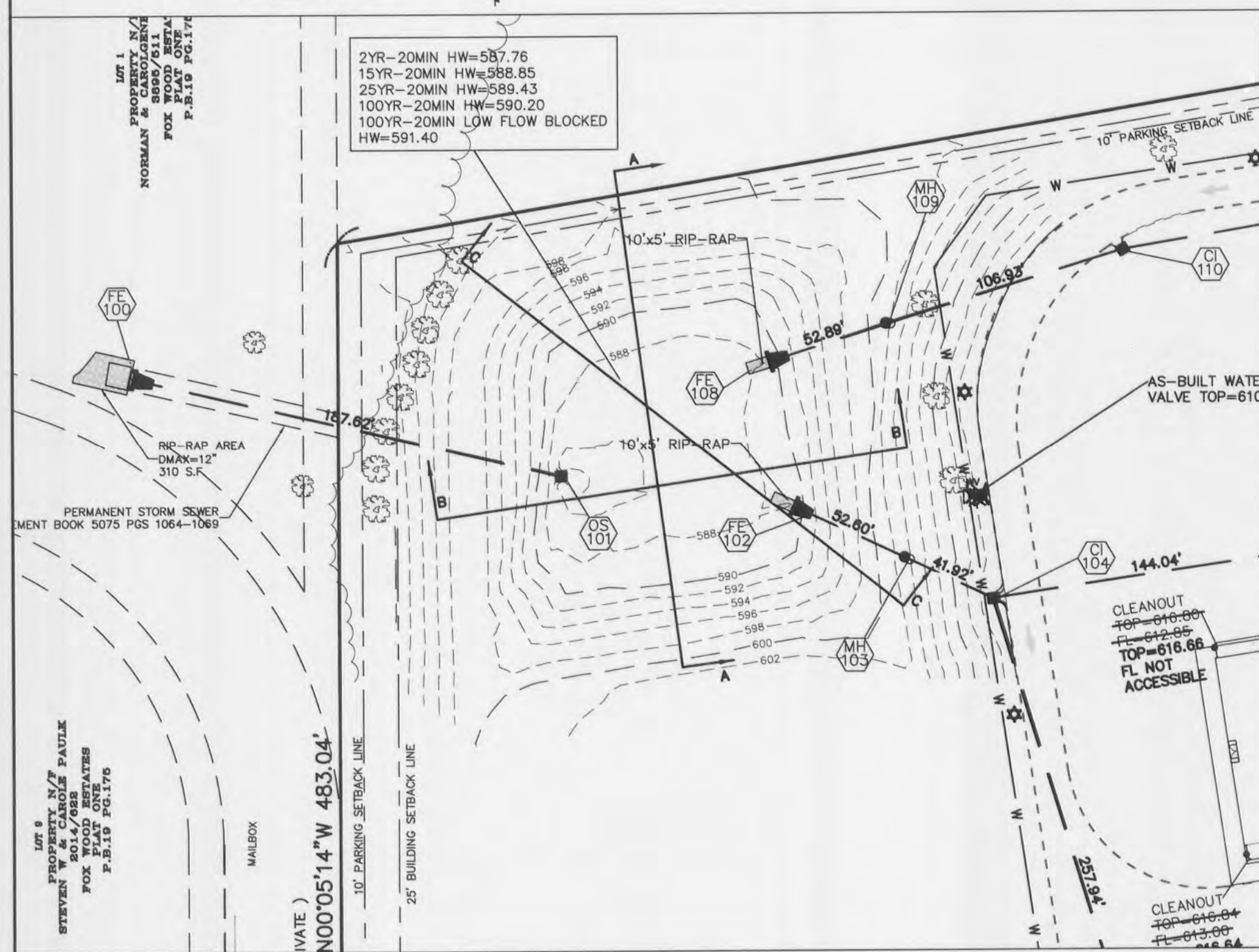
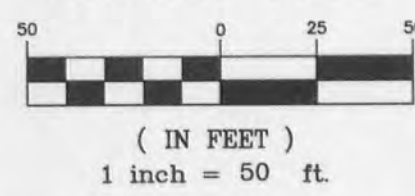
drawn by JLH  
 checked by SWR  
 sheet no.

2

SITE-PLAN



GRAPHIC SCALE



ALL TRENCHES WILL REQUIRE THE USE OF 3/4-INCH WELL GRADED, CRUSHED LIMESTONE OR SOIL FOR TRENCH BACKFILL. PAGE 6 OF THE SOILS REPORT EXPLAINS WHY TRENCHES SHOULD BE FILLED IN THIS MANNER.

SANITARY PROFILE  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=10'

PROVIDE 0.20" DROP THROUGH ALL STRUCTURES AND MANHOLES  
PROVIDE MINIMUM 42" COVER OVER SANITARY SEWER MAINS

ALL TRENCHES WILL REQUIRE THE USE OF 3/4-INCH WELL GRADED, CRUSHED LIMESTONE OR SOIL FOR TRENCH BACKFILL. PAGE 6 OF THE SOILS REPORT EXPLAINS WHY TRENCHES SHOULD BE FILLED IN THIS MANNER.

SANITARY PROFILE  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=10'



5/13/12

**SOMMERS ROAD ELEMENTARY SCHOOL - PHASE 1, 1.5 AND 2**  
2523 SOMMERS ROAD  
WENTZVILLE R-IV SCHOOL DISTRICT  
OF FALLON, MISSOURI

**HOENER ASSOCIATES, INC.**  
ARCHITECTS  
ST. LOUIS, MISSOURI

CONSULTING ENGINEERS:  
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221 Point West Blvd.  
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636-928-5552  
FAX 636-928-1718

ENGINEERING  
PLANNING  
SURVEYING

STRUCTURAL  
MECH/ELEC/PLUMB  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=10'

FOOD SERVICE

job no. 05-06B  
date issued  
NOVEMBER 16, 2010  
date revised

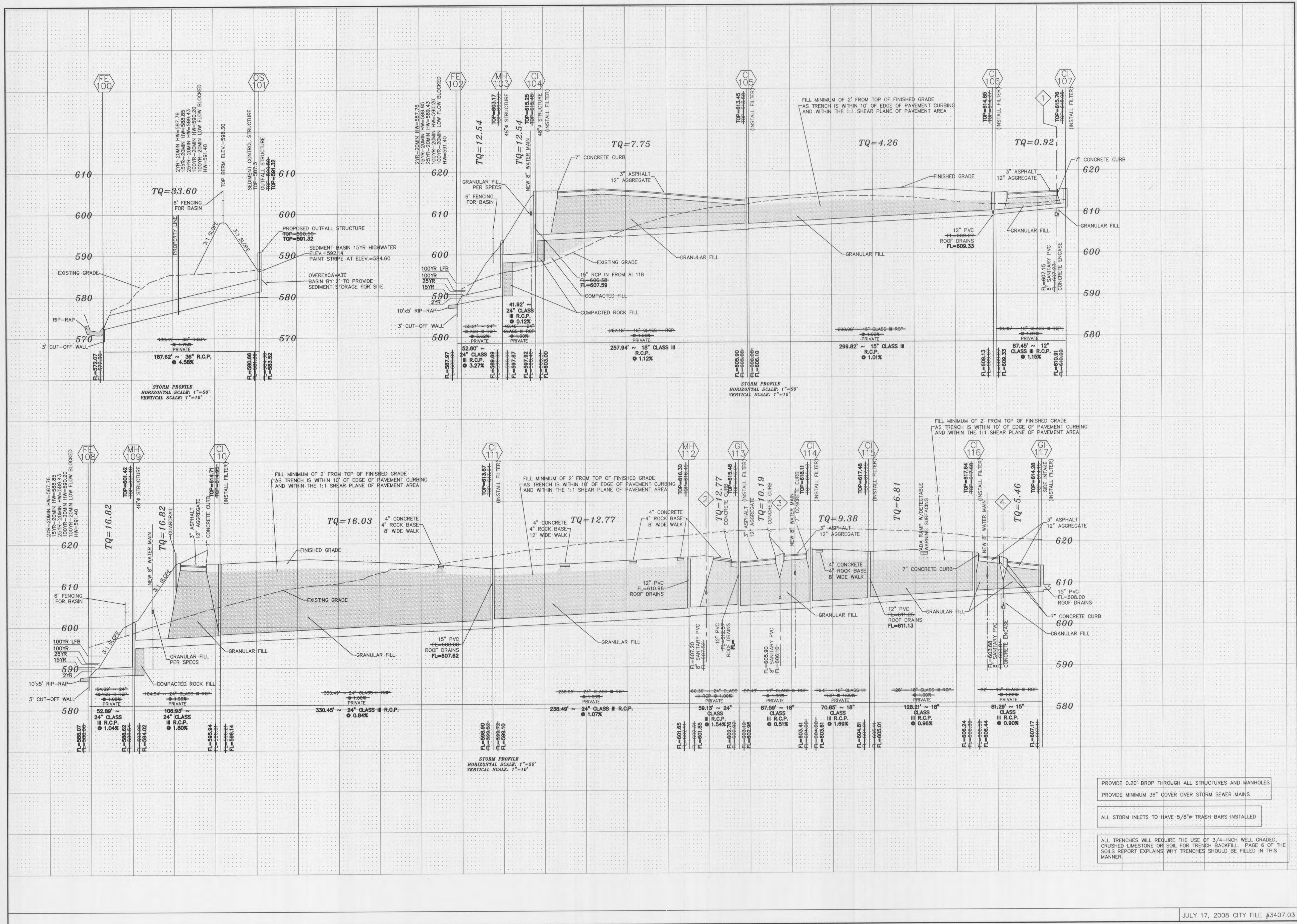
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02/11/11 DCSO COMMENTS  
09/21/11 CITY COMMENTS  
04/18/12 O.S. 101

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3





5/03/12

**SOMMERS ROAD ELEMENTARY SCHOOL - PHASE 1, 1.5 AND 2**  
 2528 SOMMERS ROAD  
 WENTZVILLE R-IV SCHOOL DISTRICT  
 OF FALLON, MISSOURI

**HOENER ASSOCIATES, INC.**  
 ARCHITECTS  
 ST. LOUIS, MISSOURI

CONSULTING ENGINEERS:  
 ABS CONSULTING, INC.  
 McCLEURE ENGINEERING ASSOC.  
 BAX ENGINEERING  
 DENNIS G. GLORE, INC.

STRUCTURAL MECH/ELEC/PLUMB  
 CIVIL  
 FOOD SERVICE

281 South West Blvd.  
 St. Charles, MO 63001  
 636-298-5582  
 FAX 636-298-1718

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job no. 05-06B  
 date issued  
 NOVEMBER 16, 2010  
 date revised  
 02/11/11 DCSD COMMENTS  
 09/21/11 CITY COMMENTS  
 04/18/12 O.S. 101

PROVIDE 0.20' DROP THROUGH ALL STRUCTURES AND MANHOLES  
 PROVIDE MINIMUM 36" COVER OVER STORM SEWER MAINS

ALL STORM INLETS TO HAVE 5/8" TRASH BARS INSTALLED

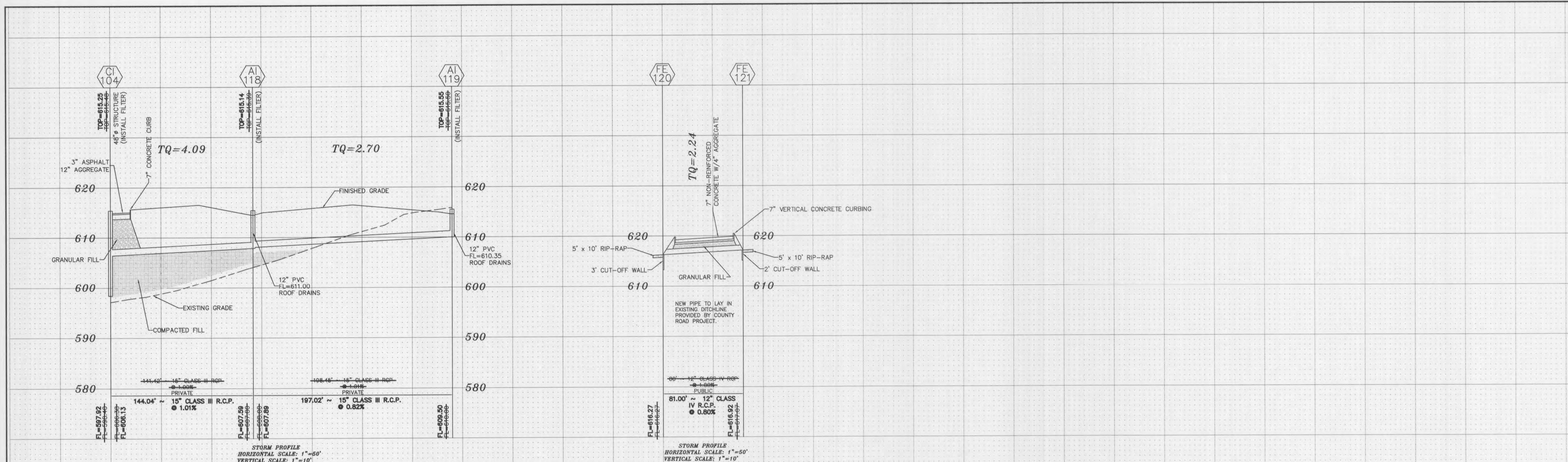
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 sheet no.

4

PROFILES





ALL TRENCHES WILL REQUIRE THE USE OF 3/4-INCH WELL GRADED, CRUSHED LIMESTONE OR SOIL FOR TRENCH BACKFILL. PAGE 6 OF THE SOILS REPORT EXPLAINS WHY TRENCHES SHOULD BE FILLED IN THIS MANNER.

ALL STORM INLETS TO HAVE 5/8" TRASH BARS INSTALLED

PROVIDE 0.20" DROP THROUGH ALL STRUCTURES AND MANHOLES

PROVIDE MINIMUM 36" COVER OVER STORM SEWER MAINS

BAX PROJECT NAME : DISCOVERY RIDGE ELEMENTARY SCHOOL  
 BAX PROJECT NO. : 03-12495D  
 DESIGN DATE : 9-21-2011  
 DESIGNED BY : SWR  
 15 YEAR 20 MINUTE AS-BUILT HYDRAULICS  
 SUBMITTED: 9-21-2011 FILENAME: 12495D AB

UPP STR	LOW STR	L DIA	UPPER FL LN	LOWER FL LN	FS	UPPER ST EL	DEPT HY GR	UPPER HY EL	LOWER HY EL	HYDR GRADE	FS HEAD	VEL HEAD	VEL HEAD	JUNC LOSS	TURN LOSS	CURVE LOSS	STR GRADE	INL CAP	DR AREA	PI	Q	TO	PIPE CAP	LINE NUMBER	REMARKS
OS101	FE100	188	36	580.66	572.07	4.58	589.80	8.18	581.62*	574.90	.00250	0.48	4.75	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	33.60	142.72	1	HW=574.90
AI119	AI118	144	15	609.50	607.89	0.82	615.55	5.46	610.09*	609.14	.00170	0.34	2.20	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	2.70	5.84	2	
AI118	CI104	144	15	607.59	606.13	1.01	615.14	6.84	608.30*	607.38	.00400	0.58	3.33	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	4.09	6.50	3	
CI107	CI106	87	12	610.91	609.33	1.81	615.76	4.55	611.21*	610.33	.00070	0.06	1.17	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.92	4.79	4	
CI106	CI105	300	15	609.13	606.10	1.01	614.85	4.99	609.86*	607.35	.00430	1.30	3.47	0.19	0.19	0.00	0.00	0.00	0.00	0.00	0.00	4.26	6.49	5	
CI105	CI104	238	18	605.90	603.00	1.12	613.45	6.64	606.82*	604.50	.00540	1.40	4.39	0.30	0.26	0.13	0.00	0.00	0.00	0.00	0.00	7.75	11.14	6	
CI104	MH103	42	24	597.92	597.87	0.12	615.25	15.13	600.12	599.87	.00310	0.13	3.99	0.25	0.12	0.21	0.00	0.00	0.00	0.00	0.00	12.54	7.81	7	
MH103	FE102	53	24	589.69	587.97	3.27	603.17	12.46	590.71	590.55	.00310	0.16	3.99	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.54	40.91	8	HW=590.55
GI117	CI116	82	15	607.17	606.44	0.89	614.28	5.69	608.59	607.69	.00710	0.59	4.45	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.00	5.46	6.09	9	
CI116	CI115	128	18	606.24	605.01	0.96	617.64	10.43	607.21	606.51	.00420	0.54	3.85	0.23	0.16	0.22	0.00	0.00	0.00	0.00	0.00	6.81	10.29	10	
CI115	CI114	71	18	604.91	603.61	1.49	617.48	11.01	606.47	605.64	.00800	0.56	5.31	0.44	0.27	0.00	0.00	0.00	0.00	0.00	0.00	9.38	13.67	11	
CI114	GI113	88	18	603.41	602.96	0.51	618.11	12.47	605.64	604.46	.00940	0.82	5.77	0.52	0.36	0.27	0.00	0.00	0.00	0.00	0.00	10.19	7.53	12	
GI113	MH112	59	24	602.76	601.85	1.54	615.48	11.36	604.12	603.85	.00320	0.19	4.06	0.26	0.08	0.29	0.00	0.00	0.00	0.00	0.00	12.77	28.06	13	
MH112	CI111	238	24	601.65	599.10	1.07	616.30	13.60	602.70*	601.10	.00320	0.76	4.06	0.26	0.17	0.17	0.00	0.00	0.00	0.00	0.00	12.77	23.39	14	
CI111	CI110	330	24	598.90	596.14	0.84	613.87	13.66	600.21*	598.14	.00500	1.66	5.10	0.40	0.19	0.00	0.00	0.00	0.00	0.00	0.00	16.03	23.67	15	
CI110	MH109	107	24	599.94	594.02	1.80	614.71	17.72	596.89*	596.02	.00350	0.39	5.15	0.42	0.11	0.05	0.00	0.00	0.00	0.00	0.00	16.82	30.51	16	
MH109	FE108	53	24	588.62	588.07	1.04	601.42	10.58	590.84	590.55	.00550	0.29	5.35	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.82	23.07	17	HW=590.55
FE121	FE120	81	12	616.92	616.27	0.80	617.92	0.39	617.53*	616.77	.00400	0.32	2.85	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	2.24	3.19	18	HW=616.77

\* INDICATES CRITICAL DEPTH

JULY 17, 2008 CITY FILE #3407.03

SOMMERS ROAD ELEMENTARY SCHOOL - PHASE 1, 1.5 AND 2

WENTZVILLE R-IV SCHOOL DISTRICT  
 2523 SOMMERS ROAD  
 O'FALLON, MISSOURI

CONSULTING ENGINEERS:  
 HOENER ASSOCIATES, INC.  
 ARCHITECTS  
 ST. LOUIS, MISSOURI

STRUCTURAL  
 CIVIL/ELECTRICAL/PLUMB  
 CIVIL  
 FOOD SERVICE

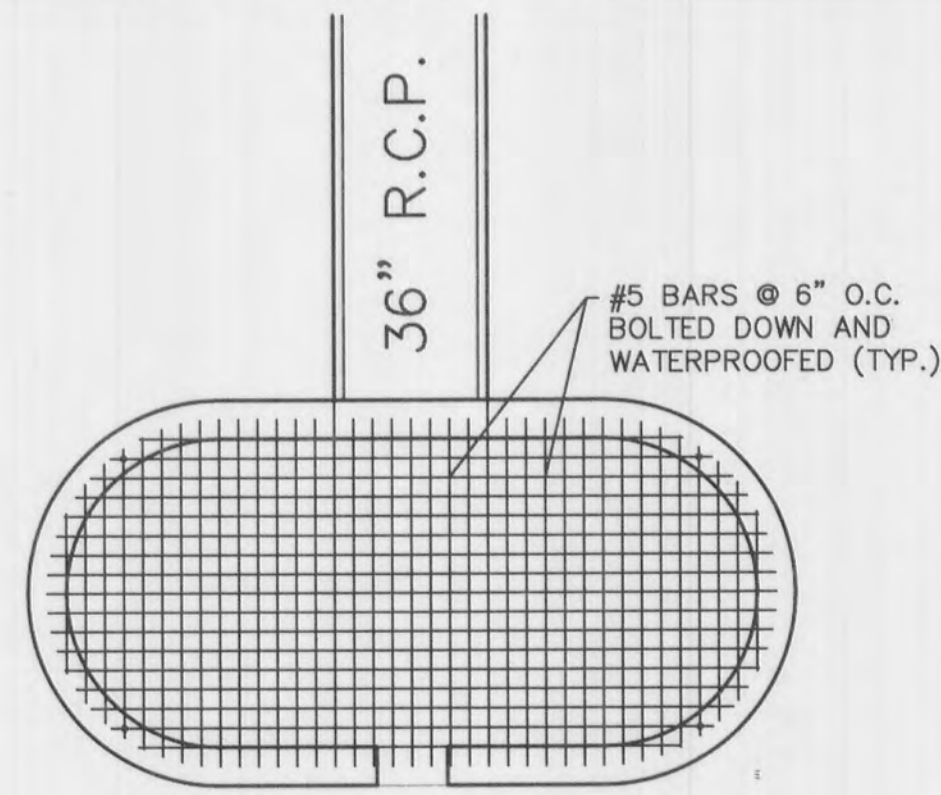
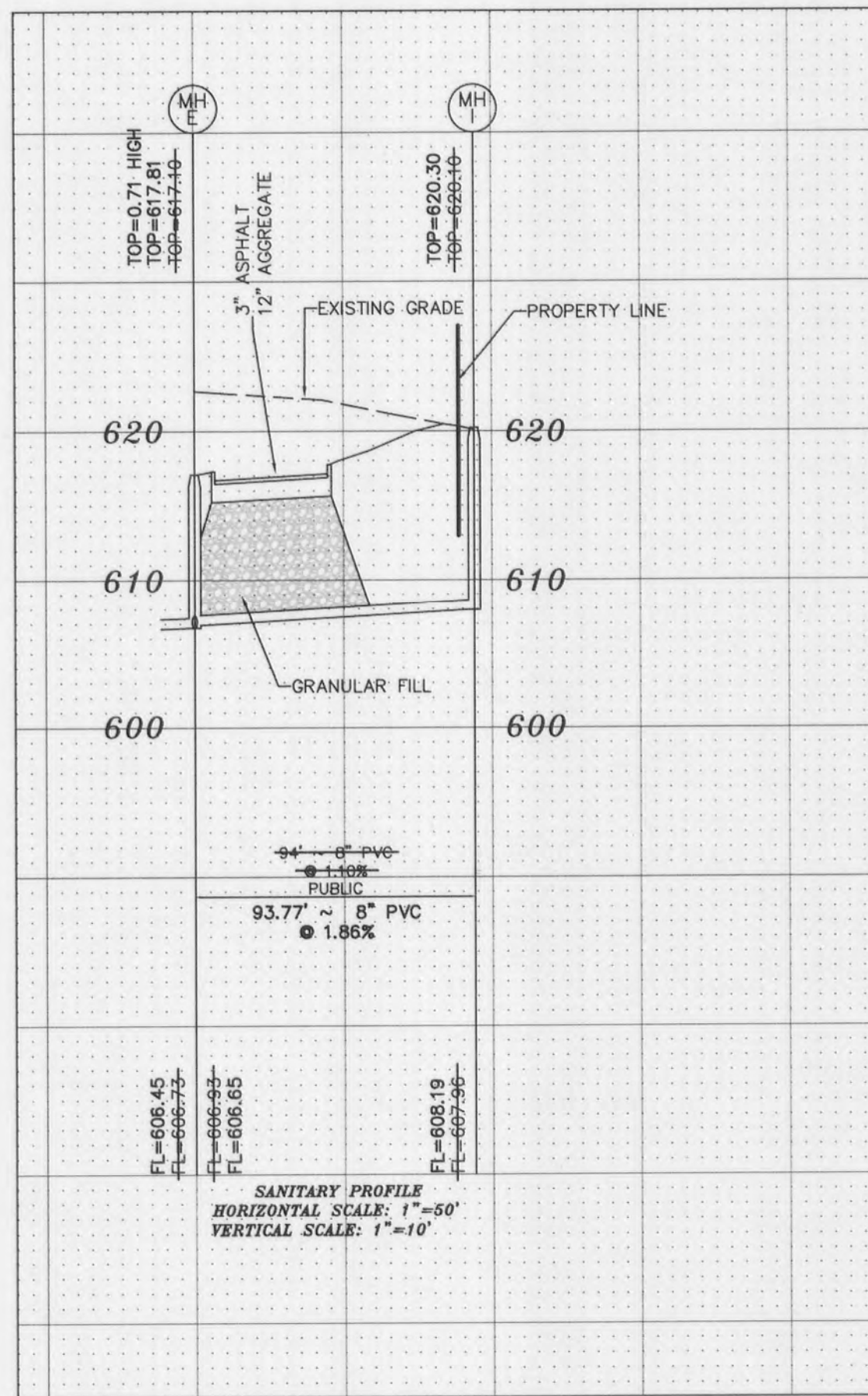
221 Point West Blvd.  
 St. Charles, MO 63301  
 636-928-5552  
 FAX 636-928-1718

ALL DIMENSIONS MUST BE VERIFIED AT BUILDING BEFORE WORK IS EXECUTED. THIS DRAWING IS THE PROPERTY OF THE ARCHITECTS AND SHALL NOT BE COPIED OR DUPLICATED WITHOUT THEIR CONSENT.

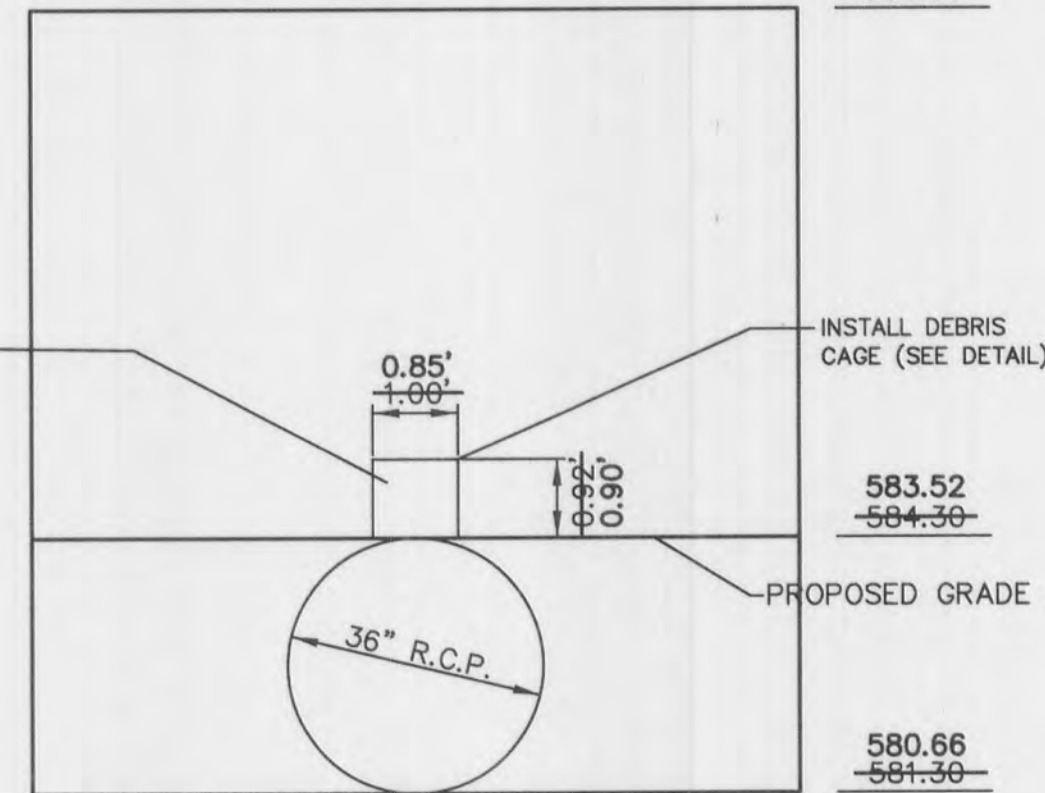
job no. 05-06B  
 date issued  
 NOVEMBER 16, 2010  
 date revised  
 02/11/11 DCSD COMMENTS  
 09/21/11 CITY COMMENTS  
 04/18/12 O.S. 101

drawn by JLH  
 checked by SWR  
 sheet no.





TOP VIEW  
N.T.S.



The overflow structure is to be a standard double untrapped precast concrete street inlet (without top). See M.S.D. detail 38. The bottom must be constructed to the correct height so that no brick will be used. A rectangular orifice 1.00'w x 0.92'h with a flowline of 584.30 will be used as the low flow slot. A rectangular orifice 0.83'w x 2.55'h with a flow line of 587.95 will be used as the upper flow slot. The top of the structure will be at a flowline of 590.50. The low flow slot is to be equipped with a debris cage (See Detail).

OVERFLOW STRUCTURE 101  
N.T.S.

**GREASE INTERCEPTOR DETAIL**  
 CONTRACTOR TO VERIFY SIZING REQUIREMENTS  
 BASED ON DEMAND LOADS FROM SCHOOL DISTRICT.  
 DETAIL IS FOR PRESENTATION ONLY AND NOT  
 NECESSARILY THE ONE TO BE PLACED, USE MANUFACTURERS  
 DETAILS WHEN ONE HAS BEEN SELECTED.

**TRASH ENCLOSURE NOTE:**  
 TRASH ENCLOSURE IS DESIGNED BY ARCHITECT AND  
 INCLUDED IN DETAIL BOOKLET PROVIDED WITH BID SET.

JULY 17, 2008 CITY FILE #3407.03

SOMMERS ROAD ELEMENTARY SCHOOL - PHASE 1, 15 AND 2

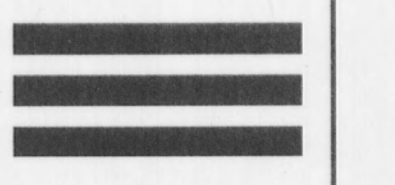
2523 SOMMERS ROAD  
 WENTZVILLE, R-IV SCHOOL DISTRICT  
 O'FALLON, MISSOURI



HOENER ASSOCIATES, INC.  
 ARCHITECTS  
 ST. LOUIS, MISSOURI

CONSULTING ENGINEERS:  
 ABS CONSULTING, INC.  
 MCGUIRE ENGINEERING ASSOC.  
 DENNIS G. GLORE, INC.

STRUCTURAL  
 ELEC/ELEC/PLUMB  
 CIVIL  
 FOOD SERVICE



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job no. 05-06B

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02/11/11 DCSD COMMENTS

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6

DETAILS