LAKE SAINT LOUIS CITY HALL & POLICE FACILITY

A TRACT OF LAND BEING PART OF U.S. SURVEY 1782, TOWNSHIP 47 NORTH, RANGE 2 EAST, CITY OF LAKE SAINT LOUIS, ST. CHARLES COUNTY, MISSOURI

CITY OF LAKE SAINT LOUIS GENERAL NOTES

- 1. Gas, water and other underground utilities shall not conflict with the depth or horizontal locations of existing and proposed sanitary and storm sewers, including house laterals.
- 2. Underground utilities have been plotted from available information and, therefore, their locations must 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 priar to grading or

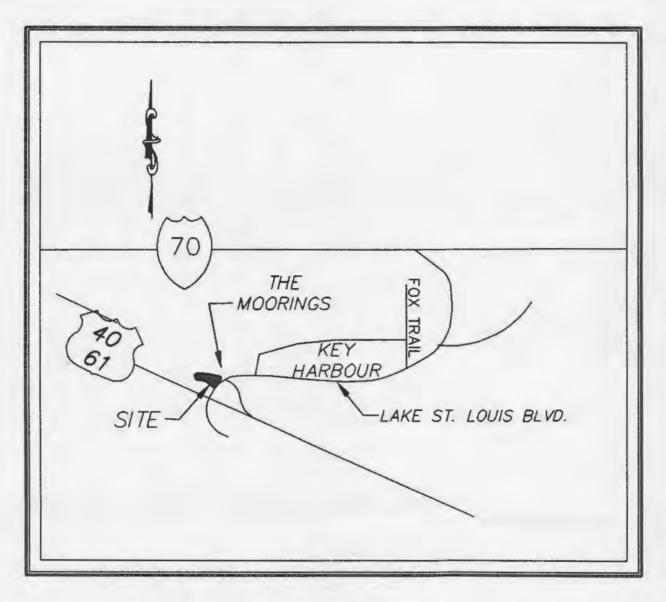
3. Polyvinyl Chloride (PVC) shall conform to the

- requirements of ASTM D-3034 Standard Specifications for the PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings,
- 4. Storm sewers 18" in diameter or smaller shall be ASTM
- 5. Storm sewers 21" in diameter or larger shall be ASTM C-76, Class II.
- 6. All storm sewer pipe under povement, regardless of size, shall be reinforced concrete pipe (ASTM C-76, Class III) unless noted otherwise in the plans.
- 7. All filled places under buildings, proposed sanitary and storm sewer lines, and/ar paved areas including trench backfills, and all earthen filled places within State, County, or City roads (Highways), shall be compacted to at least 90% of the maximum dry density as determined by the "Modified A.A.S.H.T.O. T-180 Compaction Test" (ASTM D-1557) unless otherwise specified by the local governing authority specifications. All tests will be verified by a soils engineer.
- 8. All storm and sanitary trench backfills shall be water jetted. 1" clean rock compacted in place will be under paved areas.
- 9. Easements shall be provided for storm sewers, sanitary sewers, and all utilities on the record plat. See record plat for location and size of eosements. This does not apply to building laterals.
- 10. No area shall be cleared without the permission of the City Engineer and Developer.

11. All grades shall be within 0.2 feet (more or less) of

- those shown on the grading plan.
- 12. No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched or stabilized as determined by the City Engineer.
- 13. Hazard markers will consist of three (3) standard specification, "Manual on Uniform Traffic Control Devices," end of roadway markers mounted on two (2) pound "U" channel sign post. Each marker shall consist of an eighteen (18) inch diamand reflectorized red panel. The bottom of each panel shall be mounted a minimum of four (4) feet above the elevation of the pavement surface.
- 14. All manhole and curb inlet tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor. At the time of construction stakeout of the sewer lines, all curb and grate inlets will be face staked. If normal face stakes fall in line with sewer construction, the Engineer will set these stakes on a double offset. It shall be the responsibility of the sewer cantractor to preserve all face stakes from destruction.
- 15. All standard street curb inlets to have front of inlet 2 feet behind curb.
- 16. The minimum vertical distance from the low point of the building to the flowline of a sonitary sewer at the corresponding building connection shall not be less than the diameter of the sanitary sewer plus a vertical distance not less than two and one-half feet (2-1/2').
- 17. Water lines, valves, sleeves, meters and etc., shall meet all specifications and installation requirements of the local governing authority.

- A.W.W.A. specification C-106 and/or C-108. The cast iron fittings shall conform to A.W.W.A. specification C-110. All rubber gasket joints for water cast iron pressure pipe and fittings shall conform to A.W.W.A. specification
- 19. All water hydronts and valves shall be cast iron and installed in accordance with plans and details.
- 20. All sanitary and storm sewers shall meet all specifications and installation requirements of the local
- 21. All PVC water pipe shall have a minimum pressure rating of PR-200 or SDR-21.
- 22. All streets must meet the specifications and installation requirements of the City of Loke Saint Louis.
- 23. Manhole frame and cover shall be Clay and Bailey No. 2008 ar Neenah R-1736 or Deeter 1315 or approved equal.
- 24. The soil engineer shall be employed by the owner. The contractor shall notify the sails engineer at least two days prior to start of grading or paving, and at least 1 day prior to resumption of work after any substantial
- 25. 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 of Lake
- 26. All water lines shall be laid at least 10 feet harizontally from any sanitary sewer, storm sewer, or manhale. Whenever 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 18 inches above the top of the drain or sewer. A full length of ductile iron water pipe shall be centered over the sewer line to be crossed so that the joint 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, horizantally, or any sewer or drain it crosses.
- 27. All manhole and inlet tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor.
- 28. The length of the concrete encosement around the P.V.C. sanitary sewers and the concrete storm sewers shall extend at least 5' into undisturbed sail to bridge the pipe across the trench backfill. Reinforcing steel shall be placed in the concrete encasement for tensile strength.
- 29. All construction and materials used shall conform to current City of Lake Saint Louis Standards. (Reference Appendix 1, A and B of City Code).
- 30. All PVC sanitary pipe is to have crushed stone bedding uniformly graded between 1" and 1/4" size. This bedding shall extend from 6" below the pipe to 7/10 of the pipe depth above the bottom of the pipe.
- 31. Erosion control shall not be limited to what is shown on the plan. The contractor shall take whatever means necessary to prevent siltation and erosion from entering adjacent raadways, properties and ditches. Such control might include channeling runoff into sediment basins, channeling runoff into areas where an extra right-of-way of straw bales are used. A silt fence might be considered if necessary, as directed by the City
- 32. The City of Lake Saint Louis shall be notified at least 48 hours prior to construction of sanitary sewers for coordination



LOCATION MAP

TBM: "Square" cut on Curb Inlet located at the Northeast Corner of subject property. ELEVATION = 559.06

DRAWING INDEX

Sheet	Description
C-1	COVER SHEET
C-2	SITE SURVEY
C-3	SITE PLAN
C-4	GRADING PLAN
C-5	UTILITY PLAN
C-6	SILTATION CONTROL PLAN
C-7	SEWER PROFILES
C-8	SITE DETAILS
C-9	SEWER DETAILS
C-10	WATERLINE DETAILS
C-11	SILTATION CONTROL DETAILS
C-12	DRAINAGE AREA MAP
TPP-1	TREE PROTECTION PLAN
TPP-2	TREE PROTECTION DETAILS

				ENGINEERING DA	LI MENT
-	Sanitary Sewer (Proposed)	M.H. 20	Sanitary Structure	R.C.P.	Reinforced Concrete Pipe
	Sanitary Sewer (Existing)	(C.I.)	Storm Structure	C.M.P.	Corrugated Metal Pipe
	Storm Sewer (Proposed)	•	Test Hole	C.I.P.	Cast Iron Pipe
	Storm Sewer (Existing)	B	Power Pole	P.V.C.	Polyvinyl Chloride
8"w	Water Line & Size	0-0	Light Standard	V.C.P.	Vitrified Clay Pipe
-EX W-	Existing water line	⊗⊗	Double Water Meter Setting	V.A.	Von Accessible
↓ ₩	Tee & Valve	8	Single Water Meter Setting	C.O.	Clean Out
E	Сар	*	Hydrant	A.D.J.	Adjust To Grade
13	Lot or Building Number	5	Street Sign	T.B.R.	To Be Removed
— x —	Existing Fence Line	C.I.	Curb Inlet	T.B.R.&R	To Be Removed & Relocate
سسمس	Existing Tree Line	D.C.I	Double Curb Inlet	T.B.P.	To Be Protected
	Existing Floodway	G.I.	Grate Inlet	T.B.A.	To Be Abandoned
	Existing Flood Plain	A.I.	Area Inlet	B.C.	Bose Of Curb
	Existing Contour	D.A.I.	Double Area Inlet	T.C.	Top Of Curb
<u></u>	Proposed Contour	F.E.	Flared End Section	T.W.	Top Of Wall
	Rip-Rop	E.P.	End Pipe	B.W.	Bottom Of Wall
	Asphalt Pavement	E.D.	Energy Dissipator	E.W.	End Of Wall
•	Concrete Povement	м.н.	Manhole	U.N.O.	Unless Noted Otherwise

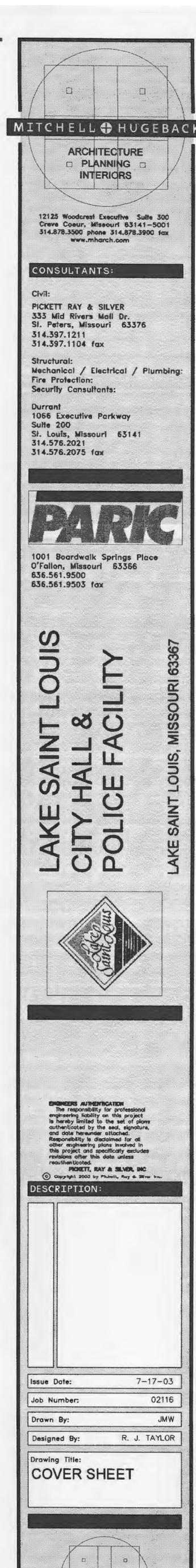
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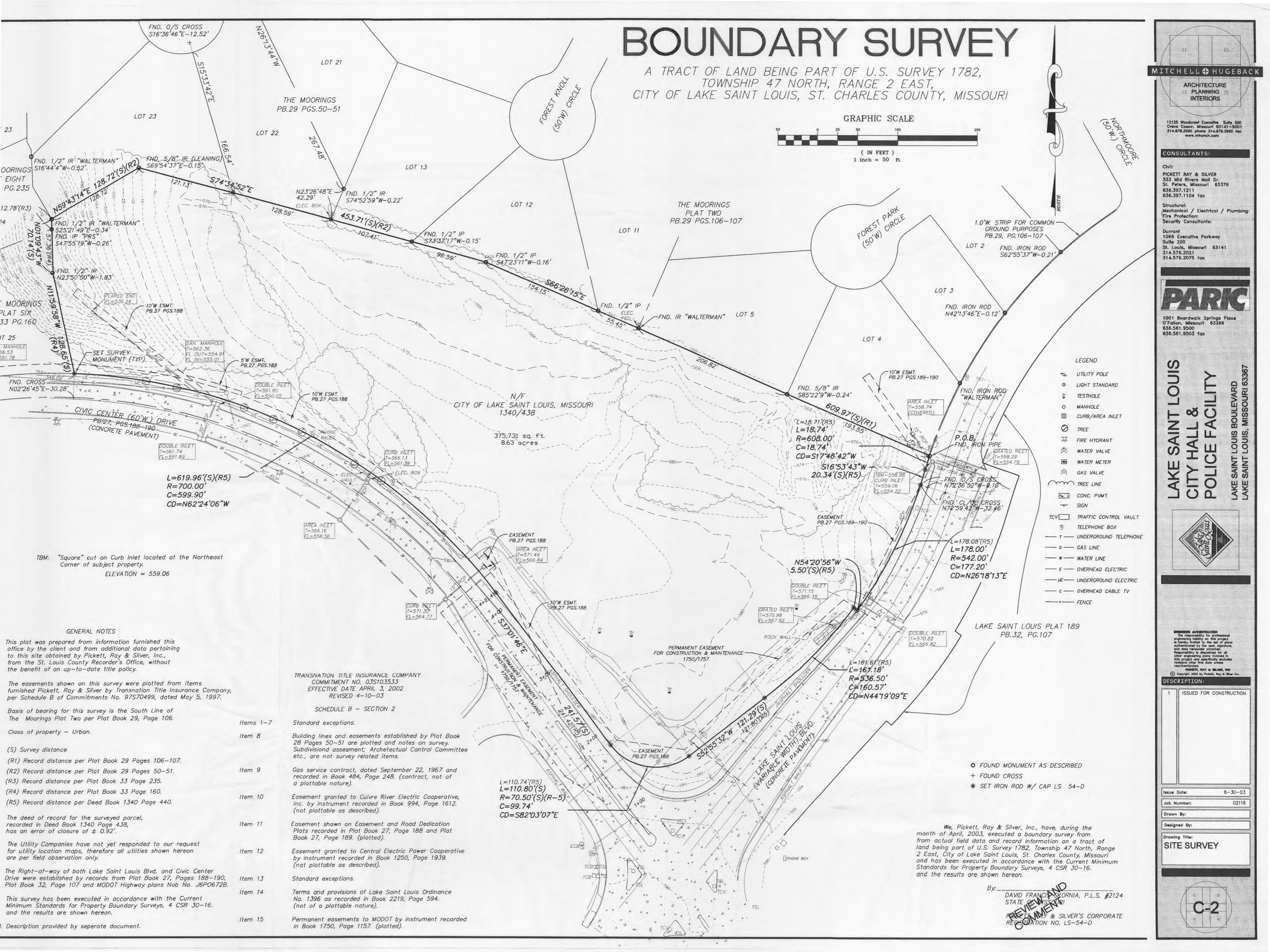
SITE BENCHMARK

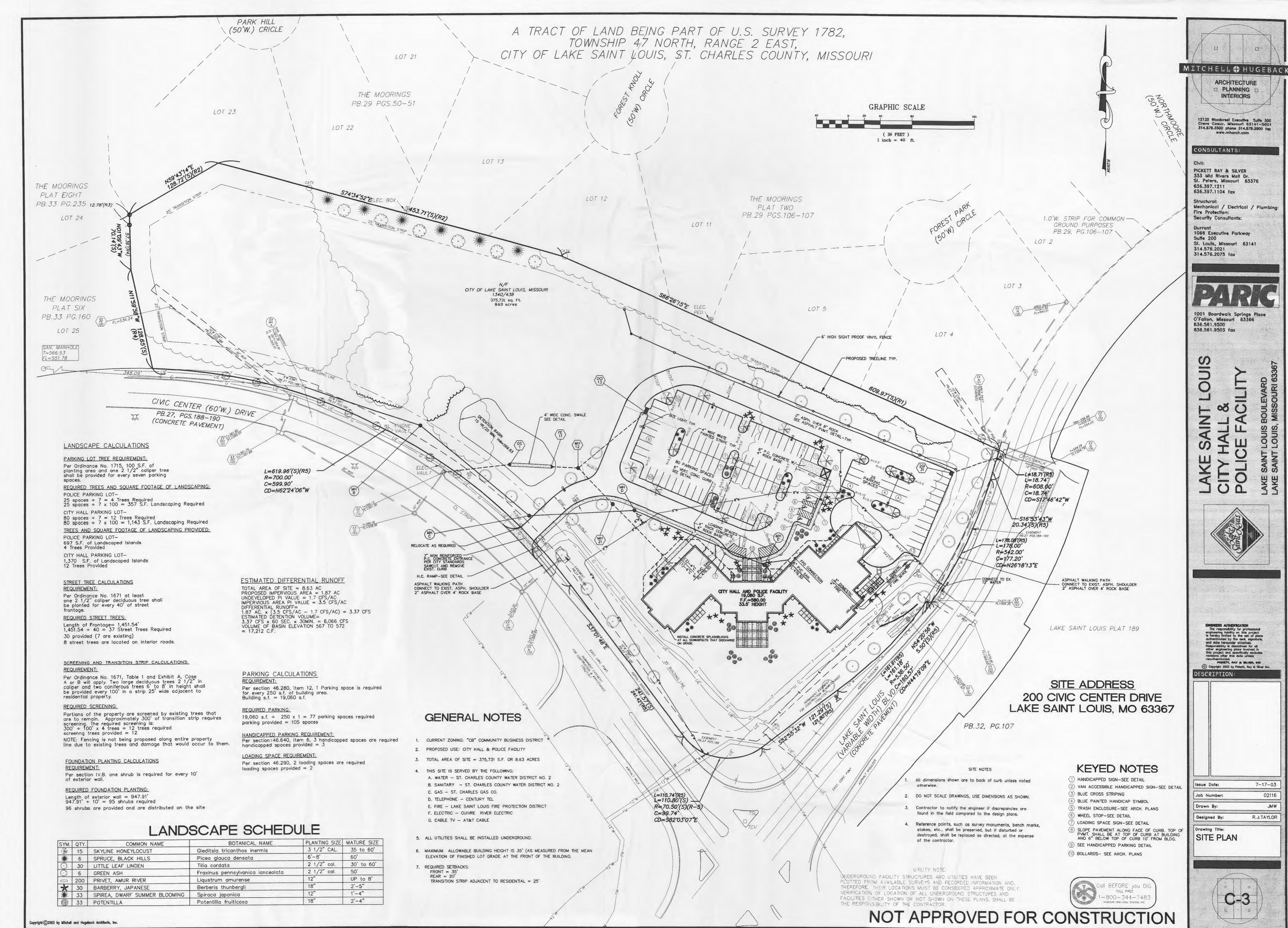
UTILITY NOTE: UNDERGROUND FACILITY STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDED INFORMATION AND. THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF LOCATION OF ALL UNDERGROUND STRUCTURES AND FACILITIES EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



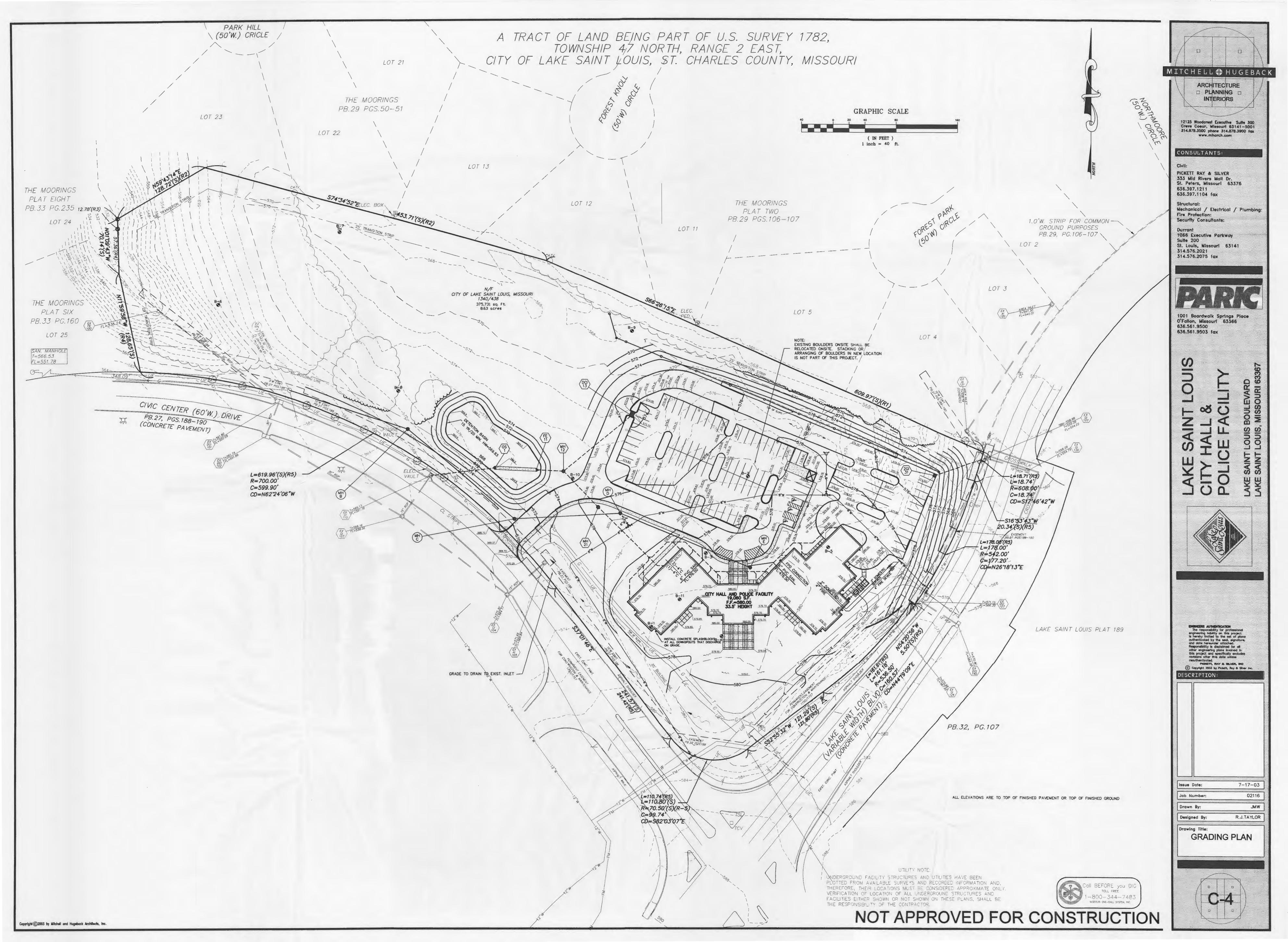


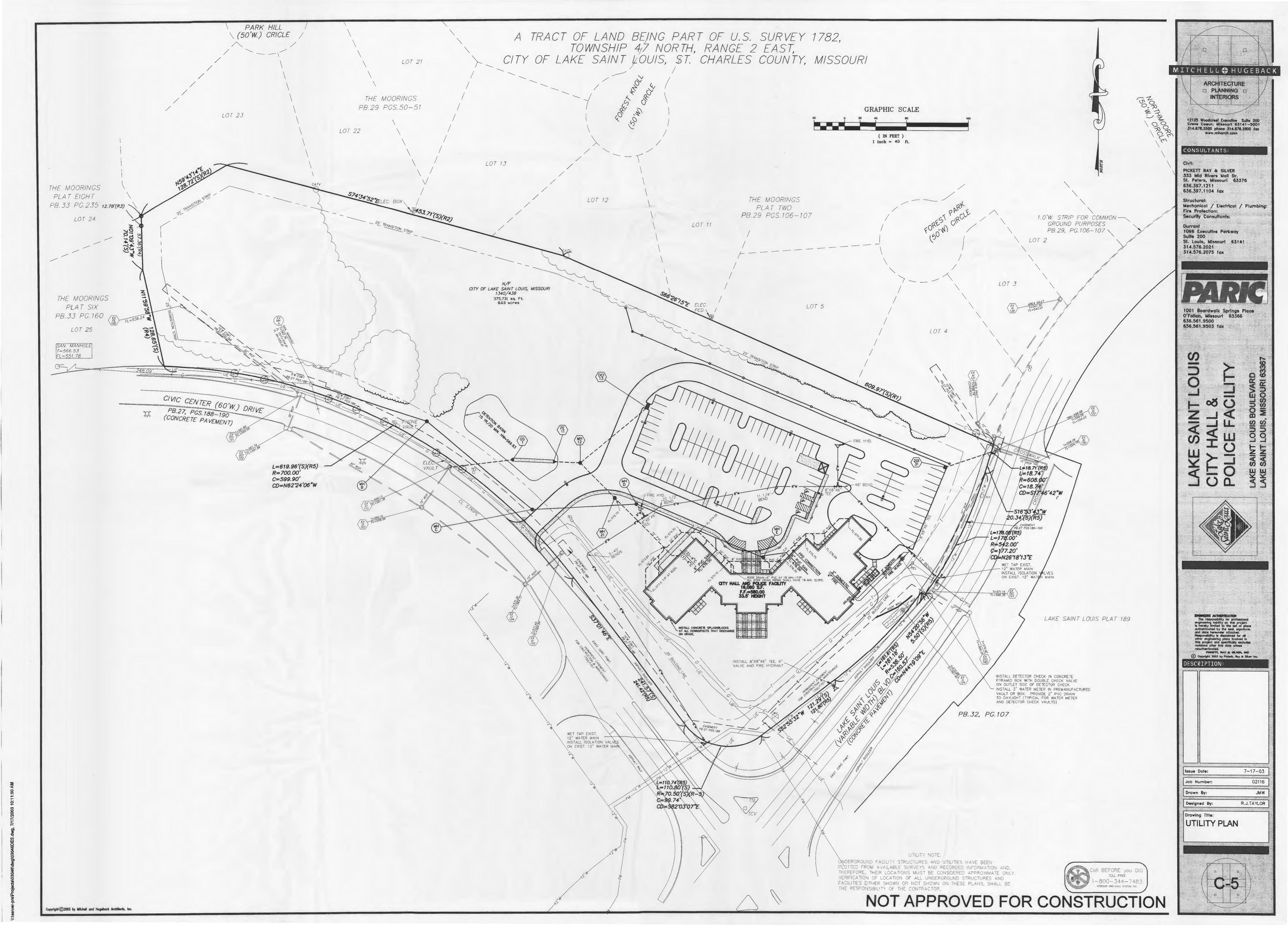
C.P. Concrete Pipe

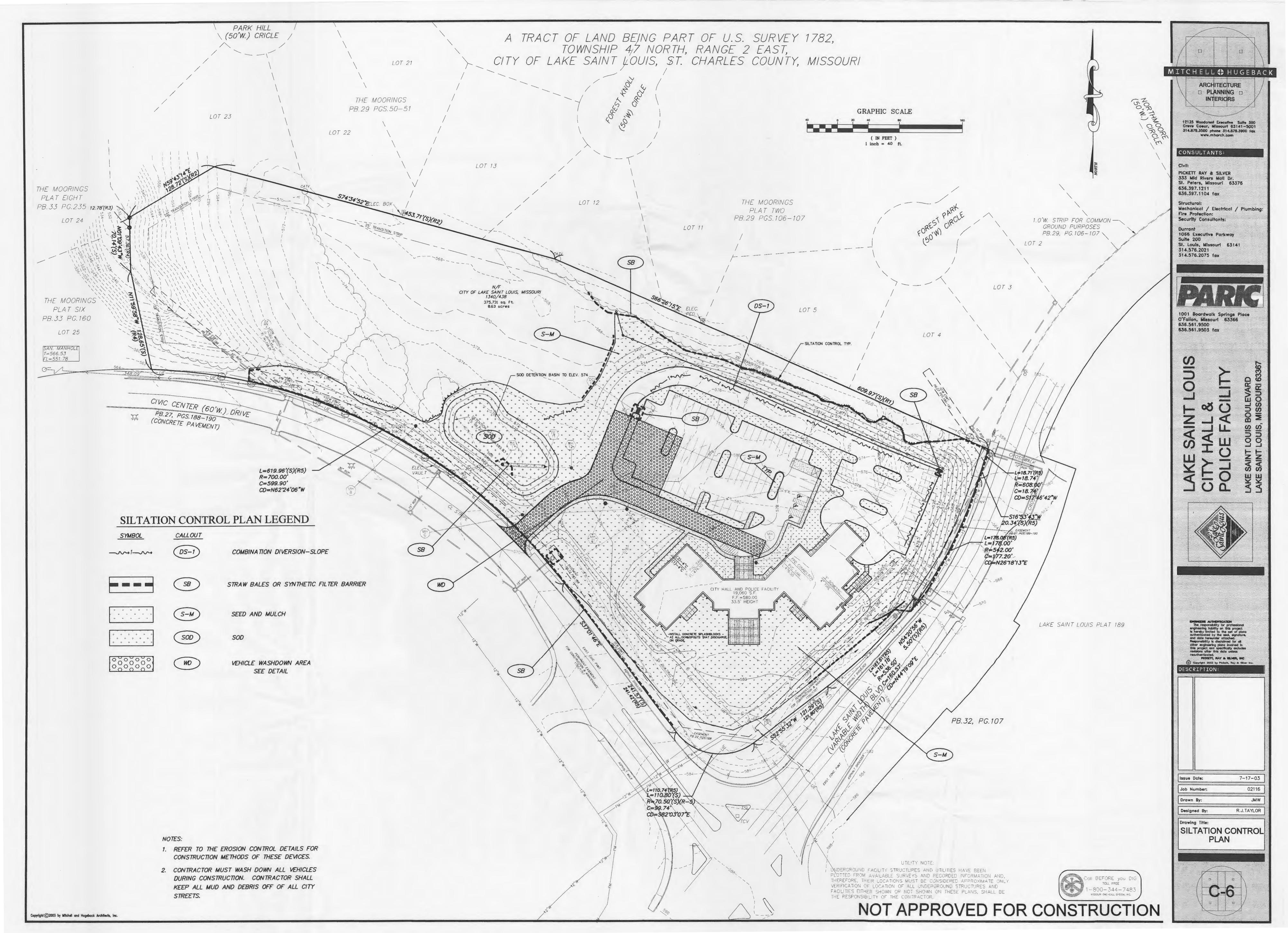


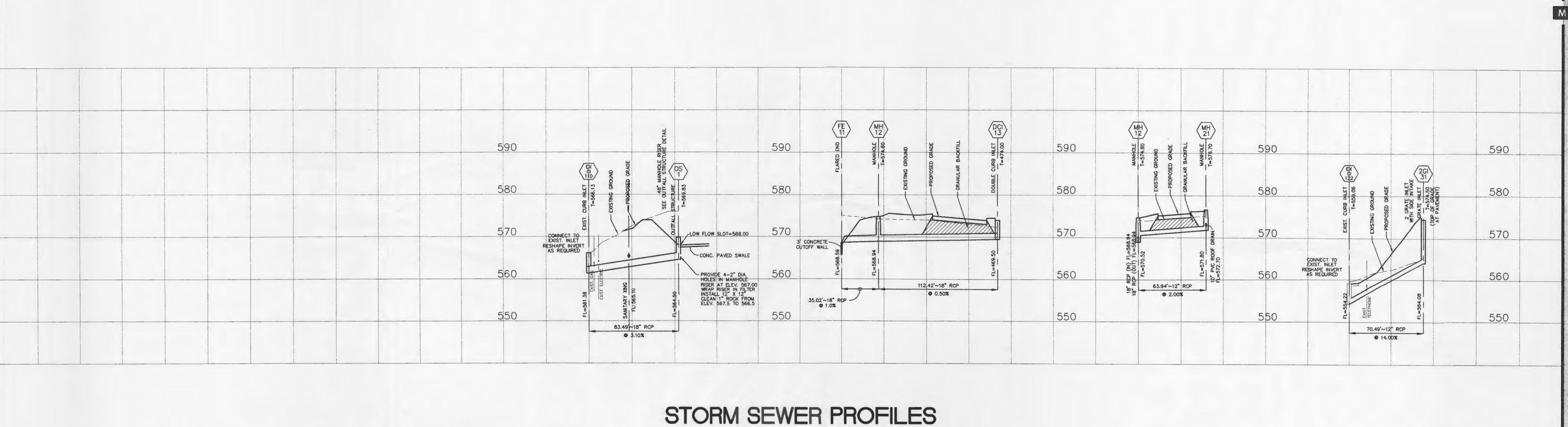


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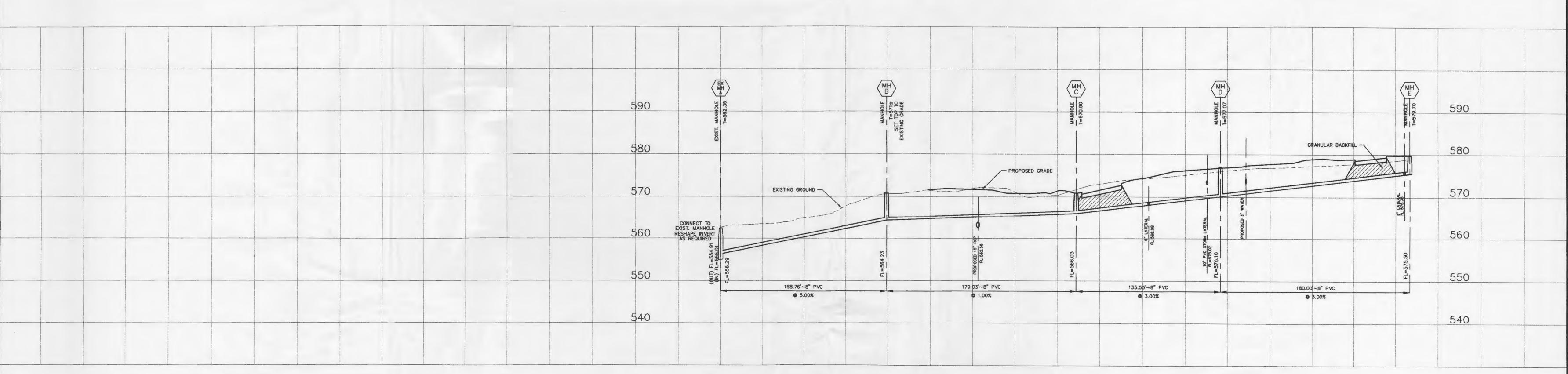








SCALE: 1" = 40' HORIZ. 1" = 10' VERT.



SANITARY SEWER PROFILES

SCALE: 1'' = 40' HORIZ. 1'' = 10' VERT.

MITCHELL + HUGEBACK

ARCHITECTURE PLANNING DINTERIORS

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CONSULTANTS:

PICKETT RAY & SILVER 333 Mid Rivers Mall Dr. St. Peters, Missouri 63376 636.397.1211 636.397.1104 fax

Structural:
Mechanical / Electrical / Plumbing:
Fire Protection:
Security Consultants:

Durrant 1066 Executive Parkway Suite 200 St. Louis, Missouri 63141 314.576.2021 314.576.2075 fax



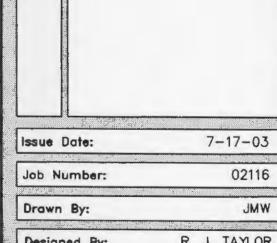
1001 Boardwalk Springs Place O'Fallon, Missouri 63366 636.561.9500 636.561.9503 fax



The responsibility for professional engineering liability on this project is hereby limited to the set of plane authenticated by the seal, signature, and date hereunder attached. Responsibility is discratined for all other engineering plans involved in this project and specifically excludes revisions after this date unless recurrenticated.

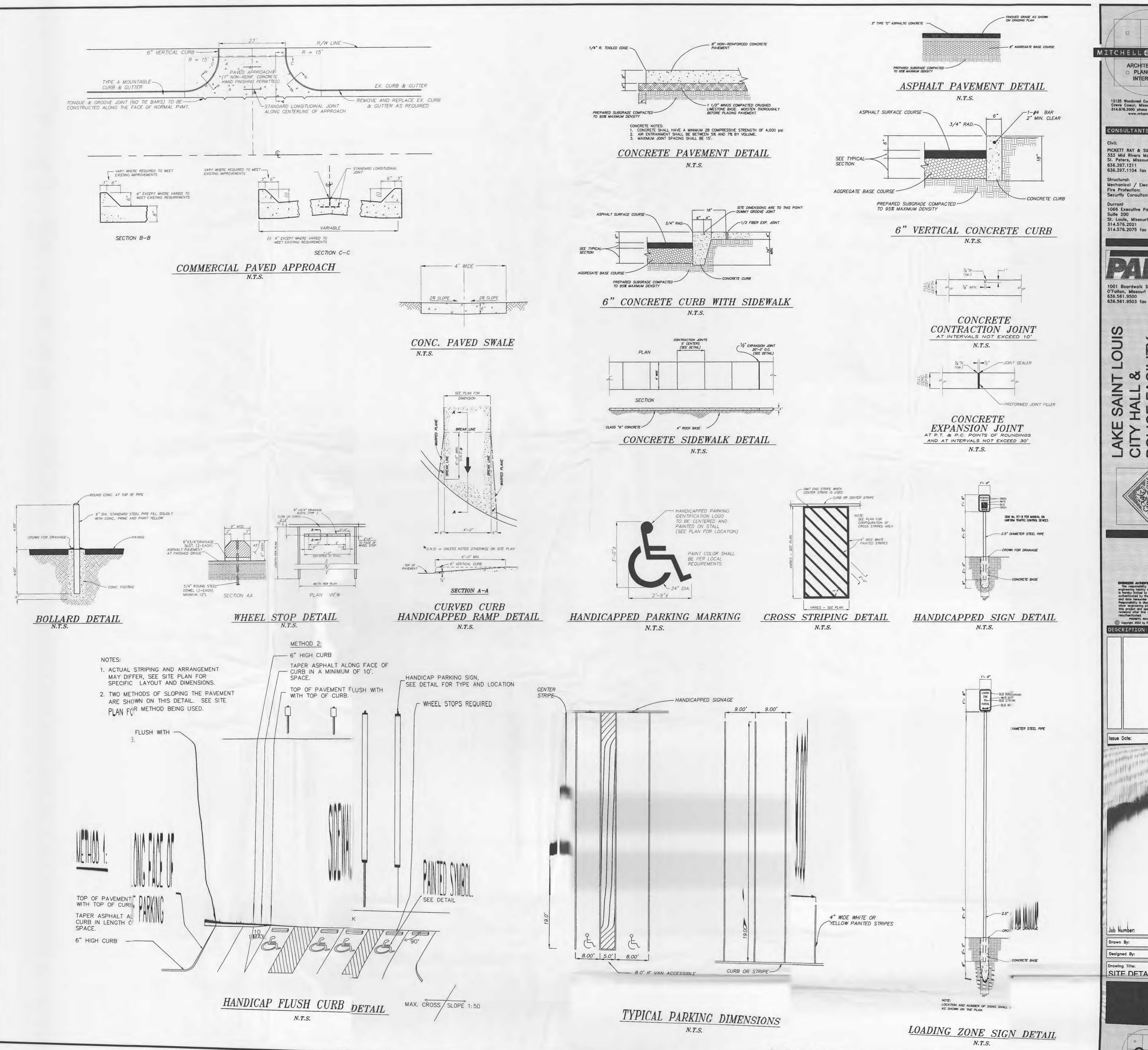
PROPERTY, TRAY & SELMER, SEC.

Copyright 2003 by Piciett, Roy & Siver Inc. DESCRIPTION:



R. J. TAYLOR

Drawing Title:
SEWER PROFILES



NOT APPROVED FOR CONSTRUCTION

MITCHELL + HUGEBACK ARCHITECTURE PLANNING D INTERIORS

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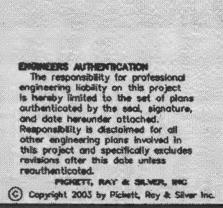
www.mharch.com CONSULTANTS:

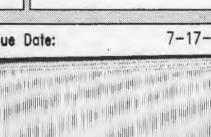
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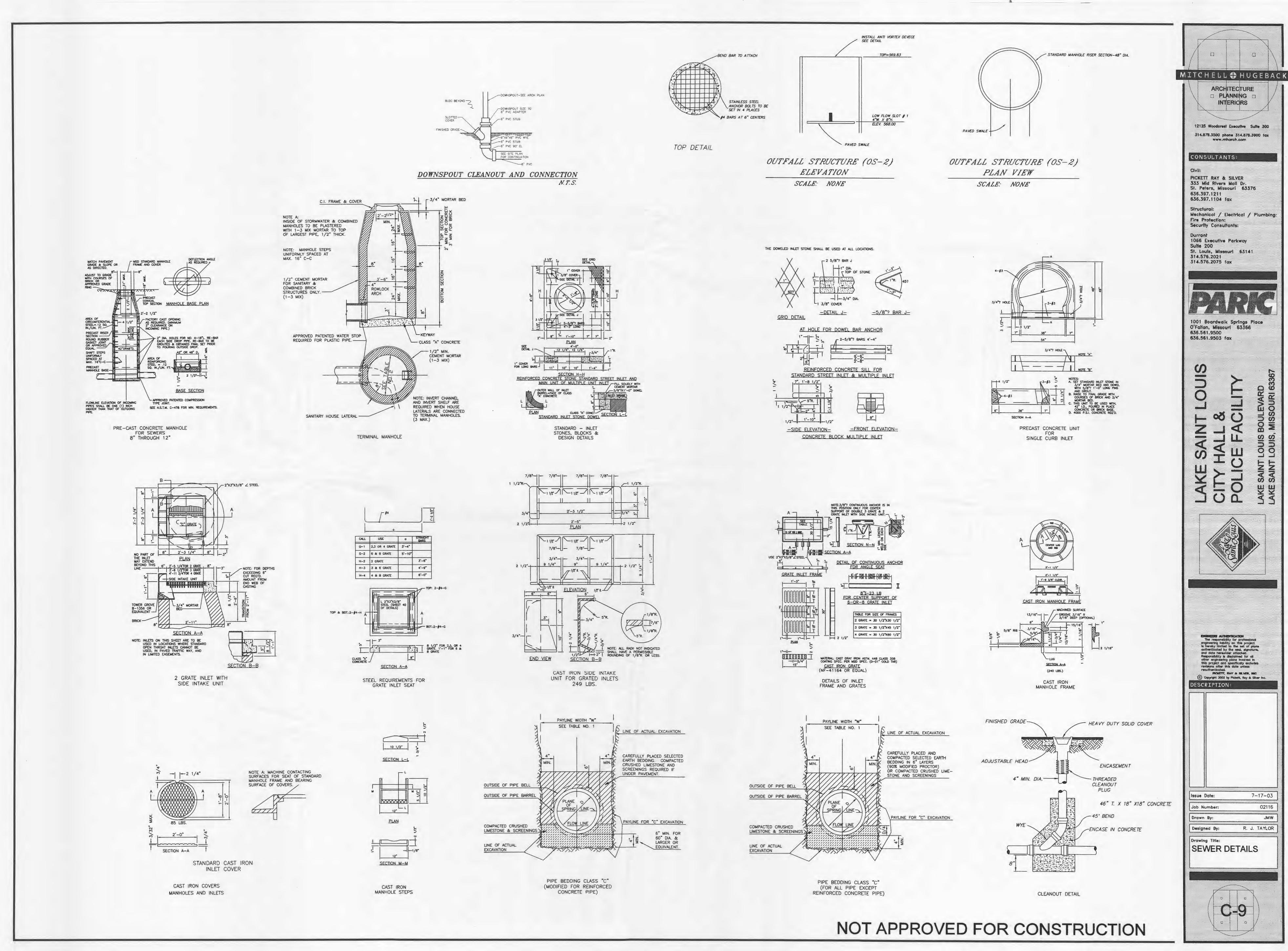


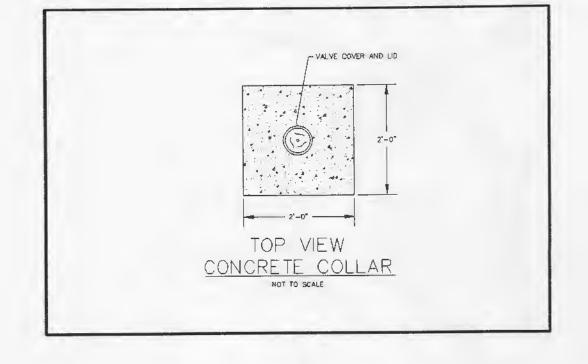


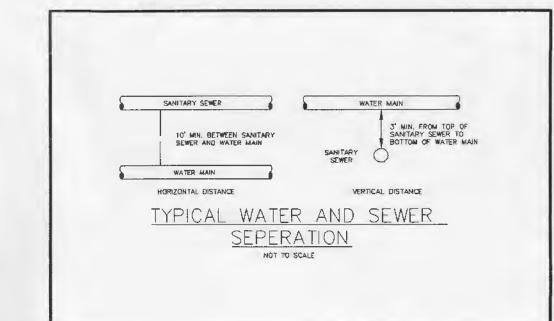


R. J. TAYLOR

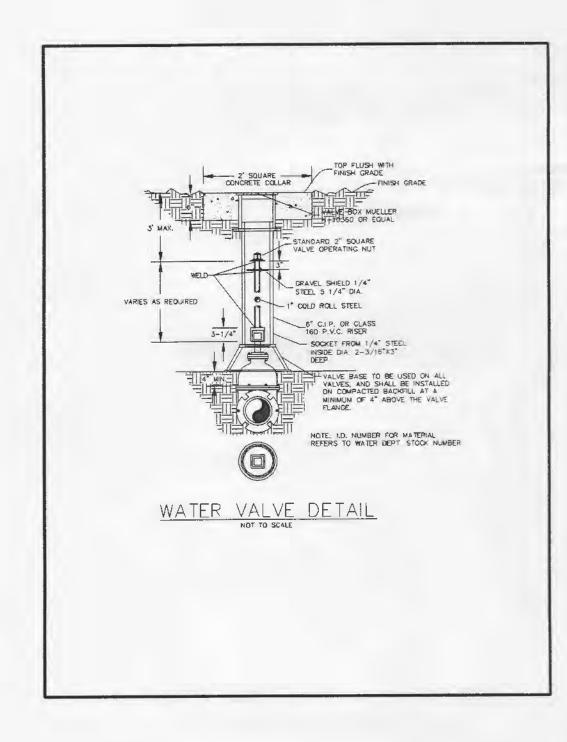
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SITE DETAILS

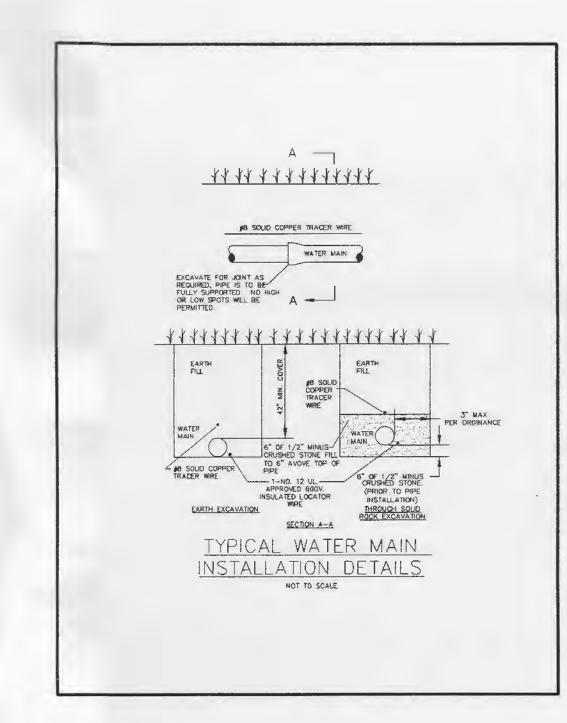


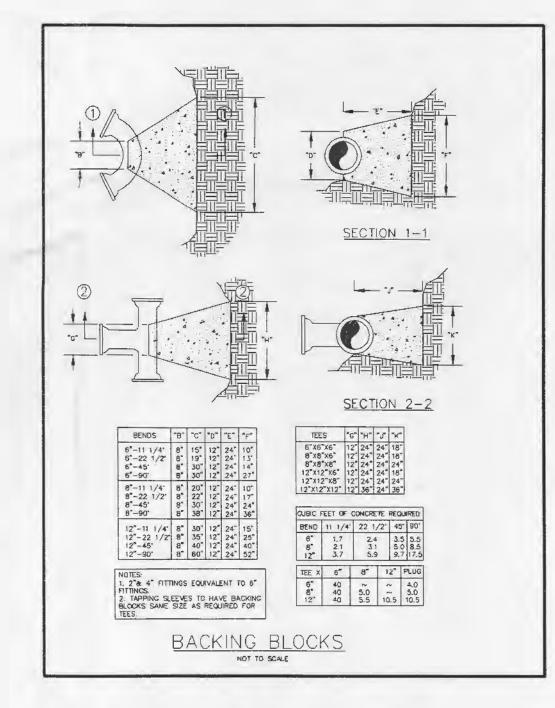


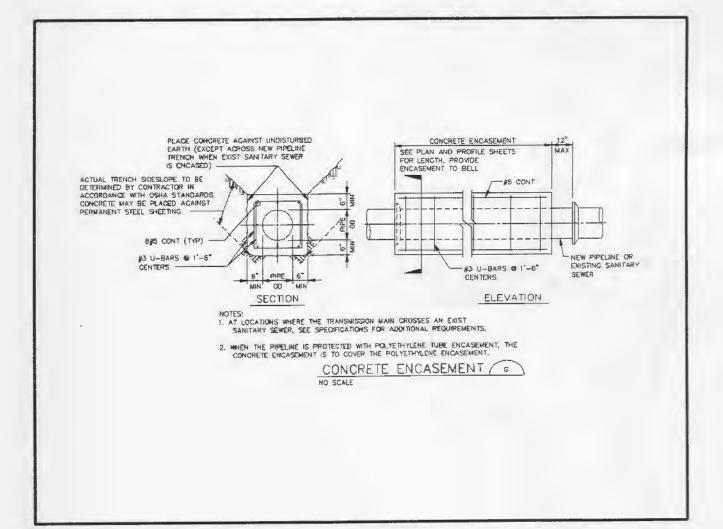


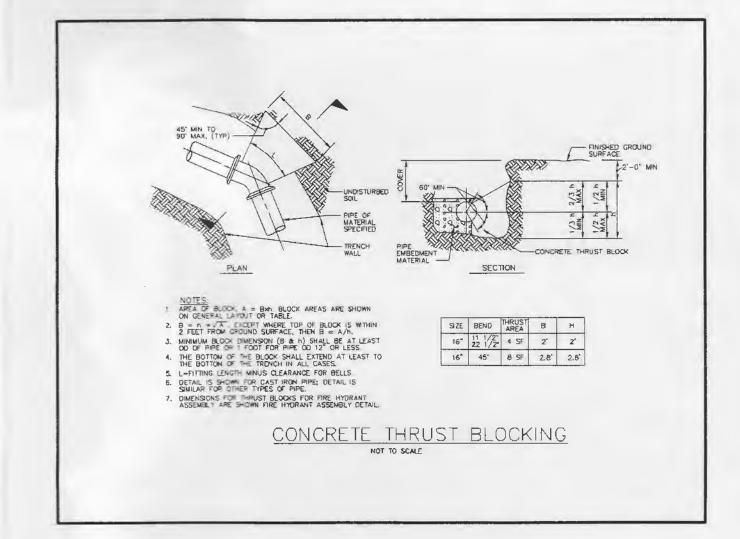
ALL WATERLINE WORK SHALL BE PER LOCAL STANDARDS.

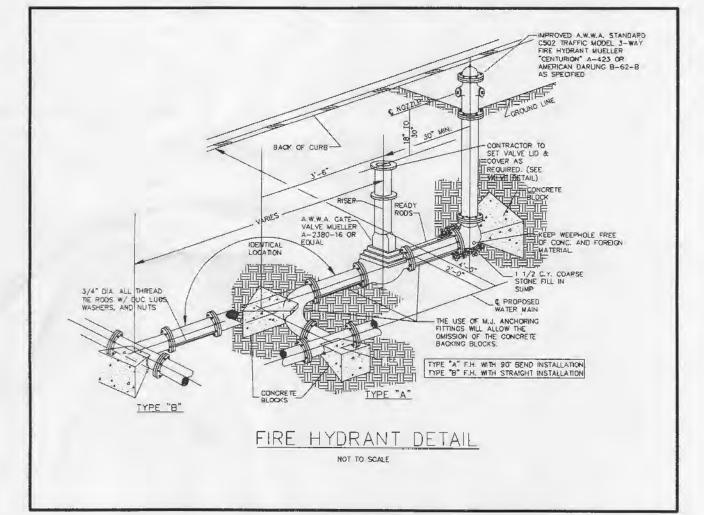


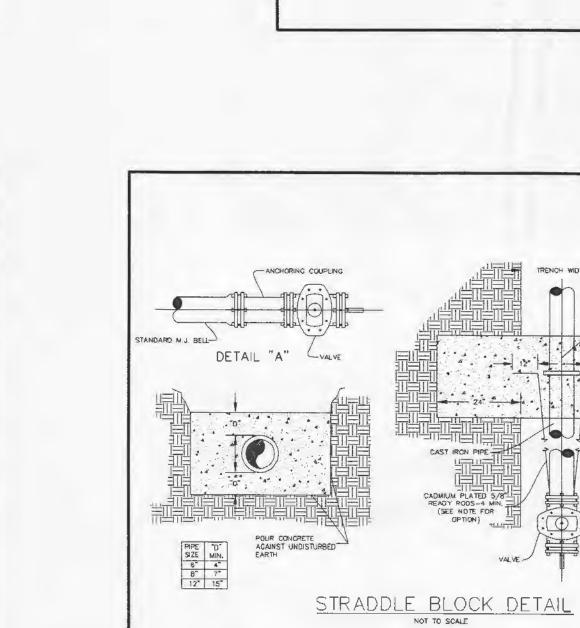








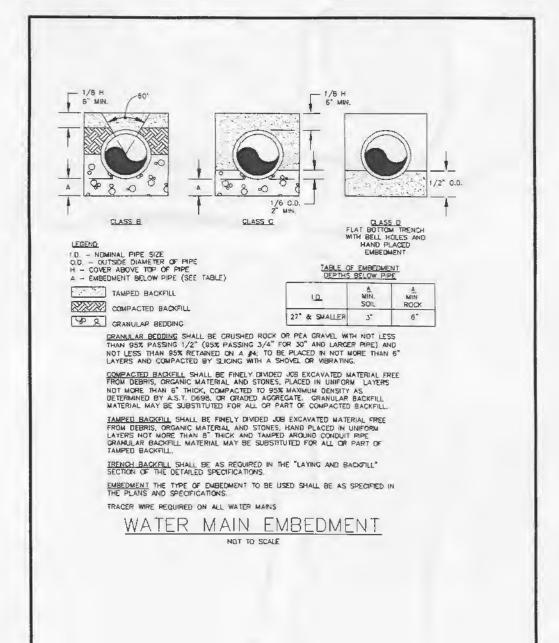




1. VAULT WALLS TO BE OF CONCRETE OR PRECAST CONCRETE. 2. VAULT ROOF TO BE OF REINFORCED CONCRETE WITH OPENING CENTERED OVER GENERAL SERVICE METER. 3. LIDS AND FRAMES OF OPENING TO BE SET IN PLACE, NOT IN CONCRETE. 4. VALVES ON EACH SIDE OF GENERAL METER FOR 1 «" OR 2" SERVICE TO HAVE SCREW ENDS, I.P. THREADS; FOR 3" AND ABOVE, VALVES MUST HAVE FLANGED ENDS & BE IN ALIGNMENT. ALL VALVES MUST BE ADEQUATELY SECURED TO WITHSTAND WATER THRUST WITH METER REMOVED. 5. MINIMUM CLEARANCE OF 2" TO BE PROVIDED BETWEEN GENERAL METER AND DETECTOR CHECK BYPASS METER. 6. DRAINAGE FACILITIES MUST BE PROVIDED, OR BOX OTHERWISE KEPT FREE OF WATER. NO FRENCH DRAINS ALLOWED. 7. SERVICE TO BE RUN AT RIGHT ANGLES FROM METER BOX TO STREET. 8. METAL LADDER TO BE PROVIDED, MUST BE PERMANENTLY SECURED TO THE VAULT & OVER 4 FEET DEEP. 9. D.I. CLASS 52 PIPE MINIMUM - EXTENDED MIN. 6' FROM OUTLET SIDE OF 10. TYPE "K" OR "L" COPPER ON DOMESTIC - EXTENDED MIN. 6' FROM OUTLET SIDE OF METER PIT. 11. ANY DEVIATION FROM PIPE DEPTH SHOWN MUST BE APPROVED BY OPERATIONS SUPERINTENDENT PRIOR TO CONSTRUCTION. 12. METER BDX CONTROL VALVE TO BE LOCATED AS NEAR TO METER BOX AS PRACTICAL. 13. BOX TO BE SET WITH TOP OF BOX AT FINISHED GRADE WITH NO EXTENSION ALLOWED. 14. TAPS WILL NOT BE MADE BEFORE METER PIT AND PIPING ARE COMPLETE AND PROPERTY LINE VALVE INSTALLED, UNLESS APPROVED BY OPERATIONS

SUPERINTENDENT. 1. ALL PROJECTS IN ST. CHARLES COUNTY MUST HAVE APPROVAL OF PWSD2 SUPERINTENDENT PRIOR TO ANY WORK BEING PERFORMED. 2. CONTACT MISSOURI AMERICAN SUPERINTENDENT BILL CHANDLER AT 636-922-3. MISSOURI AMERICAN PERSONNEL WILL MAKE ALL TAPS. 4. A MINIMUM OF 3 DAYS NOTICE IS REQUIRED PRIOR TO AN INSPECTOR BEING SCHEDULED FOR A PROJECT. 5. ANY WORK BEING PERFORMED FOR MISSOURI AMERICAN OR MAINS THAT WILL BE TURNED OVER TO MISSOURI AMERICAN WILL HAVE TO HAVE AN INSPECTOR ON THE JOB SITE AT ALL TIMES. 6. PRESSURE TEST LINE. 7. BACTERIOLOGICAL TEST. 8. DISINFECT ALL JOINTS AND GASKETS. 9. ADDITIONAL TIME WILL BE REQUIRED FOR ORDERING 2" AND LARGER

10. ADDITIONAL TIME IS REQUIRED TO ORDER TRANSMISSION TAPPING SADDLES.





7-17-03

R. J. TAYLOR

WATERLINE DETAILS

02116

JMW

Job Number:

Designed By:

Drawn By:

MITCHELL + HUGEBACK

ARCHITECTURE ☐ PLANNING ☐ INTERIORS

12125 Woodcrest Executive Suite 300 Creve Coeur, Missouri 63141-5001 314.878.3500 phone 314.878.3900 fax www.mharch.com

CONSULTANTS:

PICKETT RAY & SILVER

Civil:

NOT APPROVED FOR CONSTRUCTION

NOTE: IN LIEU OF READY RODS
AS SHOWN, CONTRACTOR CAN
USE RETAINER QUANDS OR USE A
STANDARP MECHANICAL JOINT
BELL END WITH A MECHANICAL
JOINT ANCHORING COUPLING
(HYDRANT ADAPTER) TO THE
VALVE TO MAIN. (SEE DETAIL "A")

TYPICAL TEMPORARY DIVERSION SWALE

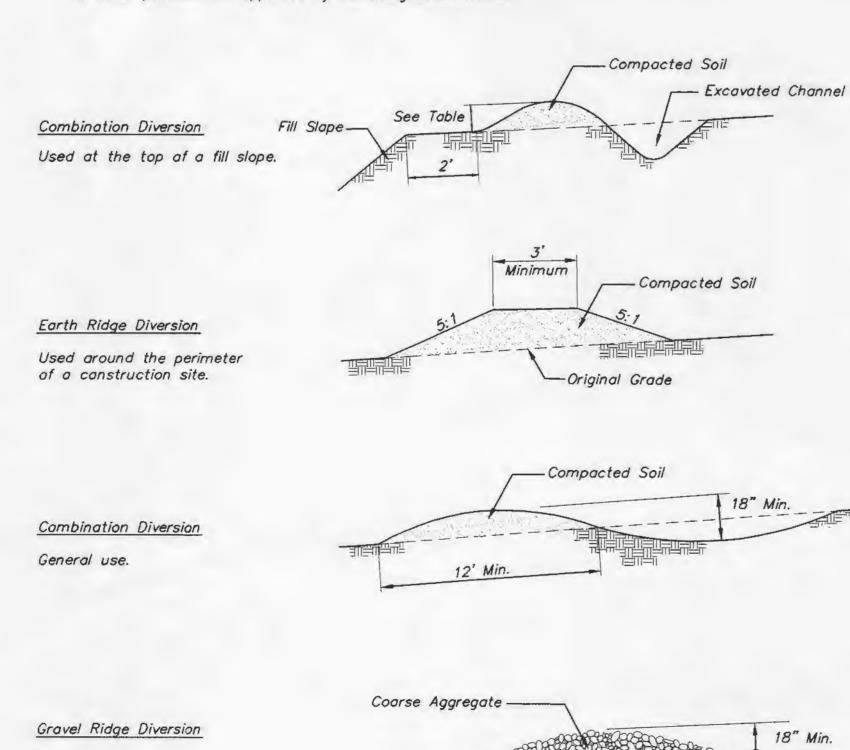
SWALE @ 10.0% - Q = 62.79 c.f.s.

SWALE IS TO BE SEEDED.

DIVERSIONS For Urban Development Sites

APPENDIX B

Outlets for diversions must be stable. Stable outlets consist of grass waterways, earthen channels with capacity adequate to prevent gully erasion, grade stabilization structures or other practices as approved by the Designated Official.



General use.

GENERAL NOTES:

- 1. Do not scale drawing, follow notes. 2. DUMP ROCK shall be at least 6 inches in thickness.
- 3. Stones shall be placed perpendicular to the slope and shall be firmly bedded against the slope.
- 4. All voids shall be filled with spalls or small stones in such a manner that all revetment stones are tightly
- 5. Slopes on which DUMP ROCK are to be placed shall conform to the sections shown an the approved construction plans.

APPENDIX A

Seeding Rates:

Permanent:

Tall Fescue - 30 lbs. /oc. Smoath Brome - 20 lbs./ac. Cambined: Fescue @ 15 lbs./ac. and Brome @ 10 lbs./ac.

Temporary:

STRAW BALE BARRIERS

For Urban Development Sites

APPENDIX C

ELEVATION

Placement and Construction of a Straw Bale Barrier

Excavate a trench 4" deep and the

width of a straw

Wedge loose straw

create a continuous

between bales to

borrier.

bale.

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 Navember 1 - March 15 to September 15

Mulch rates: 100 lbs. per 1,000 sq. ft. (4,356 lbs. per acre)

Fertilizer rates: Nitrogen 30 lbs./ac. Phosphote 30 lbs./oc. Potassium 30 lbs./ac. Lime 600 lbs./ac. ENM*

Straw Bale -

Binding wire— or twine

Backfill -

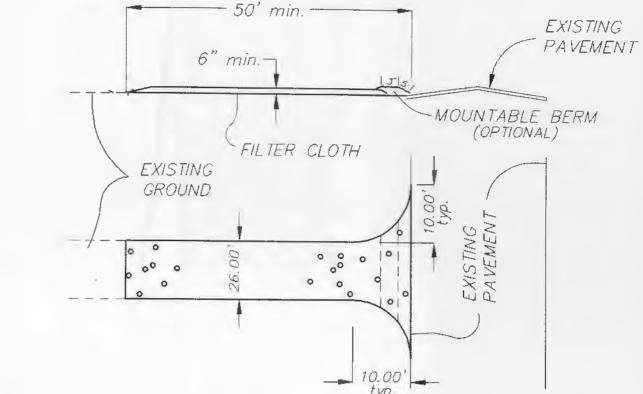
*ENM = effective neutralizing material as per State evaluation of quarried rock.

Place and stake 2 straw boles, twa

stokes per bale.

Backfill and compact the 4 excavated sail as shawn on the uphill side af

the barrier to prevent piping.



CONSTRUCTION SPECIFICATIONS

- 1. Stone Size: Use 2" stone or recloimed or recycled concrete equivalent.
- 2. Length: As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- 3. Thickness: Not less than six (6) inches.
- 4. Width: twenty six (26) foot minimum, but not less than the full width at points where ingress or egress occurs.
- 5. Filter Cloth: Will be placed over the entire area prior to placing of the stone. Filter will not be required on a single family residence lot.
- 6. Surface Water: All surface woter flowing ar diverted toward construction entrances shall be piped across the entronce. If piping is impractical, a mountable berm with a 5:1 slope will be permitted.
- 7. Maintenance: The entrance shall be maintained in a candition which will prevent tracking or flowing af sediment onto a public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto the public rightof-way must be removed immediately.
- 8. Washing: Wheels shall be cleaned to remove sediment prior to entrance onto the public right-of-way. When washing is required, it shall be done on an area stabilized with stone ond which drains into an approved sediment trapping device.
- 9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRAN N.T.S.

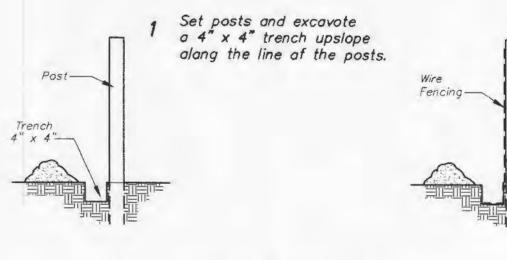
SYNTHETIC FILTER BARRIERS

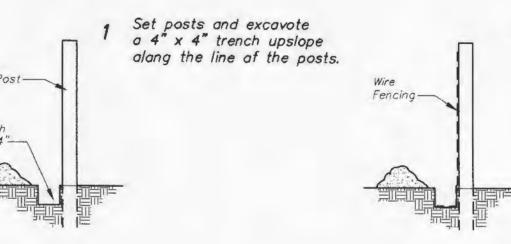
For Urban Development Sites

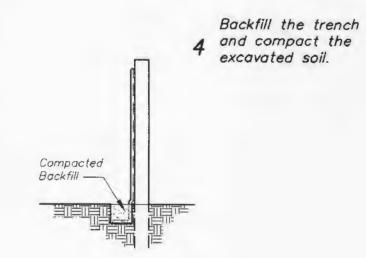
APPENDIX D

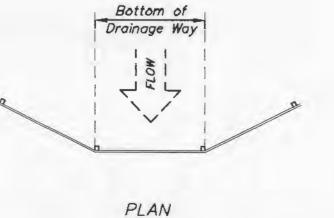
MAINTENANCE

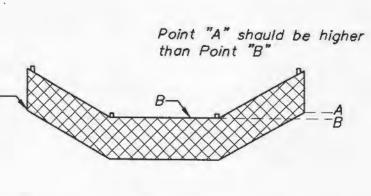
- Filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.
- 2. Should the fabric decompose or become ineffective prior to the end of the expected usable life and the barrier still be necessary, the fabric shall be replaced promptly.
- Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately half the height of the barrier.
- 4. Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.





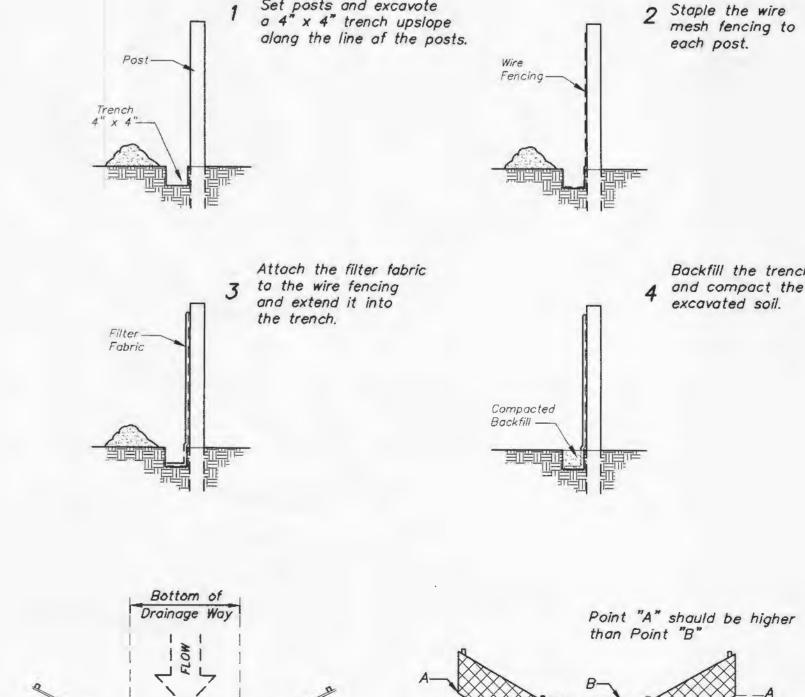




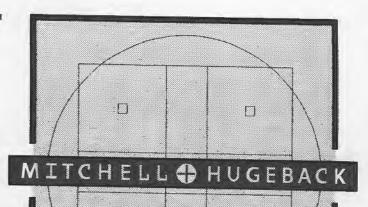


ELEVATION

Placement and Construction of a Synthetic Filter Barrier



NOT APPROVED FOR CONSTRUCTION



ARCHITECTURE □ PLANNING

12125 Woodcrest Executive Suite 300 Creve Coeur, Missouri 63141-5001

INTERIORS

314.878.3500 phone 314.878.3900 fox www.mharch.com

CONSULTANTS:

Civil: PICKETT RAY & SILVER 333 Mid Rivers Mall Dr. St. Peters, Missouri 63376 636.397.1211 636.397.1104 fax

Structural: Mechanical / Electrical / Plumbing: Fire Protection: Security Consultants:

Durrant 1066 Executive Parkway St. Louis, Missouri 63141 314.576.2021 314.576.2075 fax



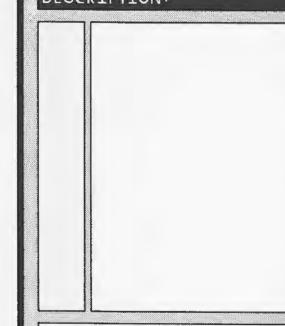
1001 Boardwalk Springs Place O'Fallon, Missouri 65366 636.561.9500 636.561.9503 fgx



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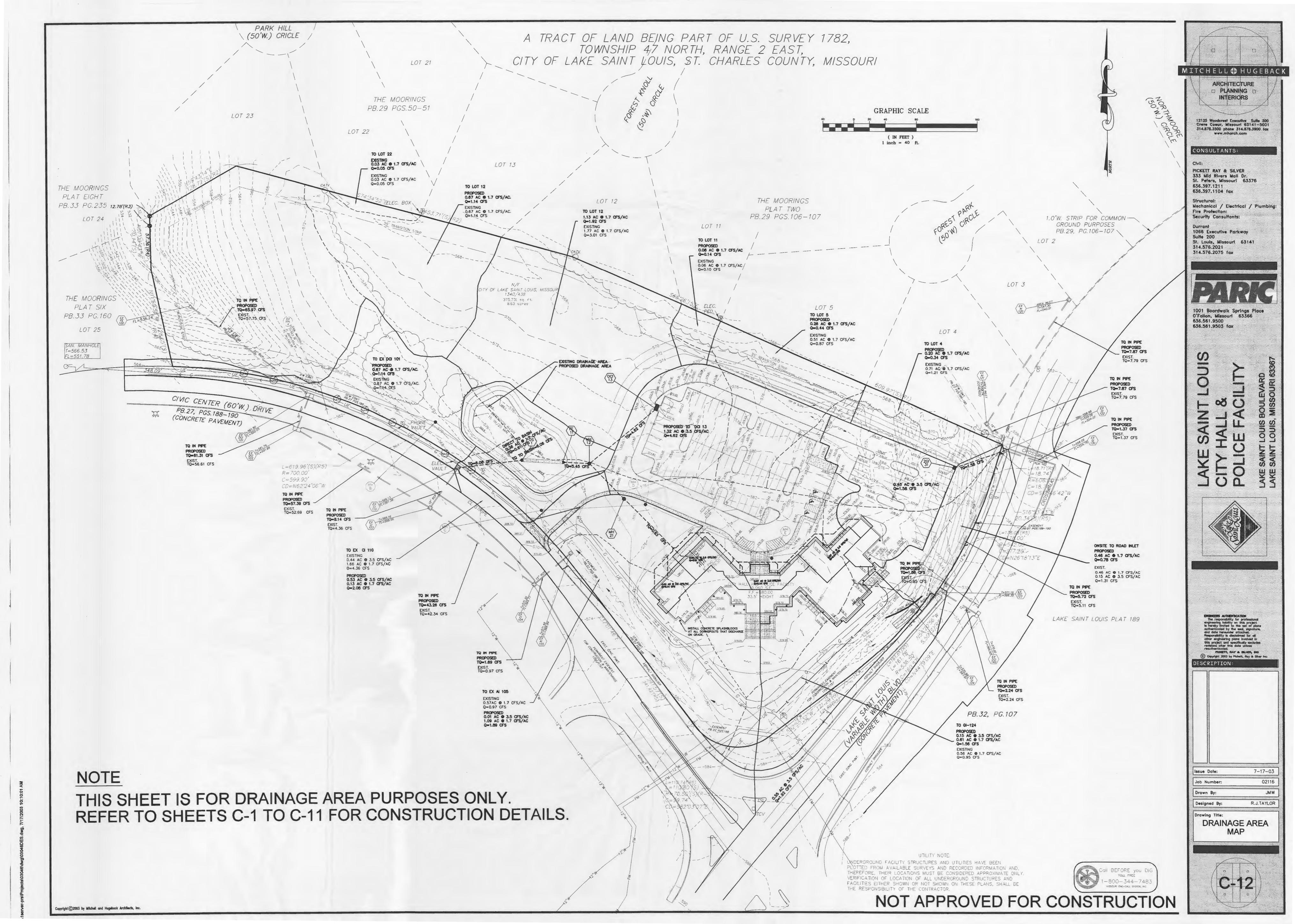
PROSETT, RAY & MENER, SEC

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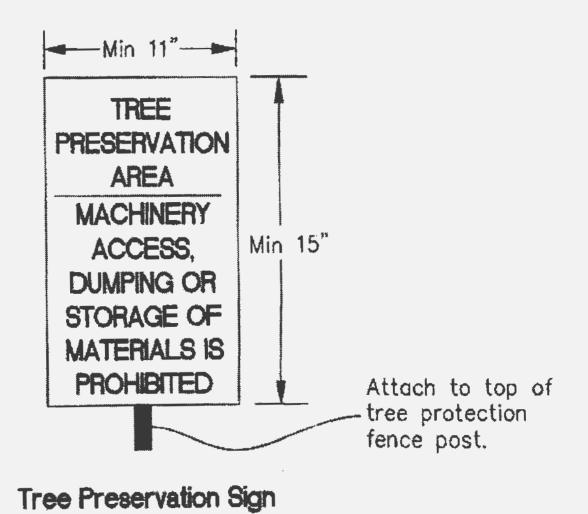
Issue Date: 02116 JMW Drawn By: R. J. TAYLOR Designed By: Drawing Title: SILTATION CONTROL

DETAILS





TREE#	SPECIES	DBH(inches)	HEALTH	COMMENTS	T.B.R.
T1	Shingle Oak	14	Good		YES
T2	East, Red Cedar	12	Good		YES
T3	Shingle Oak	14	Good		YES
T4	East. Red Cedar	12	Good		YES
T5	East. Red Cedar	12	Good		YES
T6	East. Red Cedar	15	Good		NO
T7	East. Red Cedar	12	Good		NO
T8	East. Red Cedar	12	Good		NO
T9	Shingle Oak	17	Good		NO
T10	Shingle Oak	16	Good		YES
T11	Shingle Oak	12	Good		YES
T12	Shingle Oak	15	Good		YES
T13	Shingle Oak	22	Good	4' on private property	NO
LT14	Shingle Oak	30	poor	decay, lg. Dead limb, wire	NO
	Hickory	18	poor	deadwood, wire	NO
T15	White Oak	16	good	acadvood, wiic	YES
T16		18			YES
T17	Black Cherry		good		YES
T18	Black Cherry	20	good		YES
T19	Shingle Oak	17	good		YES
T20	Red Oak	18	good		
T21	Hickory	13	good	400/ deed	YES
T22	Sassafrass	14	poor	40% dead	YES
T23	Walnut	14	good		YES
T24	Hickory	20	good		YES
T25	American Elm	12	good		YES
T26	Cottonwood	13	good		YES
T27	Honey Locust	12	good		YES
T28	Shingle Oak	16	good		NO
T29	American Elm	16	good		NO
T30	Black Cherry	18	poor		NO
LT31	White Oak	23X16X26	fair	three trunk, included bark	NO
T32	Black Oak	18	good		YES
T33	Honey Locust	16	good		YES
T34	Black Oak	13	good		YES
LT35	Red Oak	26	good		YES
T36	Red Oak	15	good		YES
T37	Black Locust	15	very poor	70% dead	NO
T38	White Oak	18	good		NO
T39	Black Locust	13	good		NO
T40	Hickory	12	good		NO
LT41	White Oak	34	very poor	large trunk cavity	NO
T42	Red Oak	20	good		NO
T43	White Oak	19	good		NO
T44	Hickory	12	good		NO
T45	Sassafrass	12	good		NO
T46	Hackberry	12	poor	hollowtrunk	NO
T47	Black Locust	20	very poor	top out,hanger,lean,remove	NO
T48	Black Cherry	18		decay, 50% dead	NO
LT49	Red Oak	26	fair	deadwood, wire	NO
T50	Chinkapin Oak	13	good		NO
T51	Chinkapin Oak	16	good		NO
T52	Basswood	13	good		NO
T53	Walnut	19	good		NO
T54	Honey Locust	15	poor	top out,hanger,lean,remove	
T55	White Oak	21X22	fair	twin trunk @4'	NO
T56	White Oak	21	good		NO
T57	Sugar Maple	12	good		NO
	White Oak	22	good		NO
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T58 T59	White Oak	21	good		NO



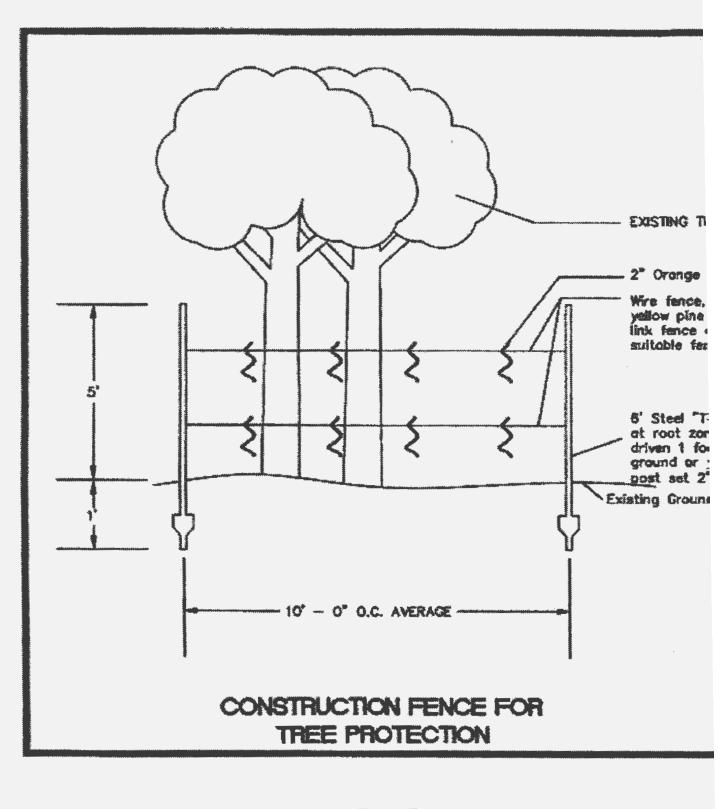
TREE PROTECTION NOTES

- All trees designated in tree protection areas shall be protected during clearing and subsequent construction. In the event that a contractor or individual damages any tree designated to be saved, such tree shall immediately be repaired as directed by the Community Forest Manager (CFM) or replaced as directed.
- The sequence of tree treatment and preservation measures will be root pruning, installation of the tree protection fencing and silt fences and erection of the tree protection signs.
- The final tree protection areas will be established/approved by the CFM and will utilize both active and passive protective systems. The clearing limit line for the permanent Tree Preservation Area will be marked with passive fencing as indicated on the Tree Stand Delineation.
- Active fencing as indicated on the Tree Stand Delineation.

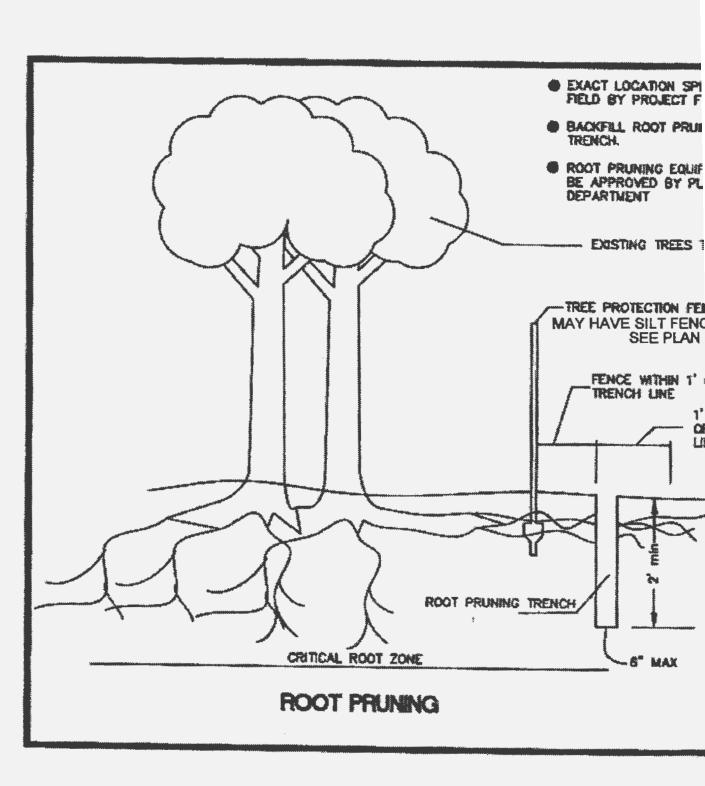
 Active fencing as designated on the Tree Preservation Plan will be erected per the attached details and specifications as shown on the TPP drawing. As the site conditions dictate, the project will utilize the Construction Fence and the Combined Silt and Tree Fence for tree protection. The active system will be installed as far out from the designated clearing line as grading allows in wooded areas. The larger trees will be felled out of this clear zone and the smaller trees will be removed utilizing a track hoe from outside the tree protection fence to minimize tree damage to residual trees.
- Tree Protection Area signs as indicated on the attached details will be placed on fence posts at regular intervals on all tree protection fence lines. In addition, information requiring subcontractor cooperation with tree protection standards will be included with bid solicitations.
- Wherever utility corridors pass through or near a section designated for tree preservation, the corridor will be root pruned and fenced on both sides.
- No dumping or cleanout of concrete trucks or portable mixers allowed within 100 feet of tree preservation areas.
- No construction equipment, worker parking or storage of construction materials is allowed within any tree preservation area.

Submitted by,

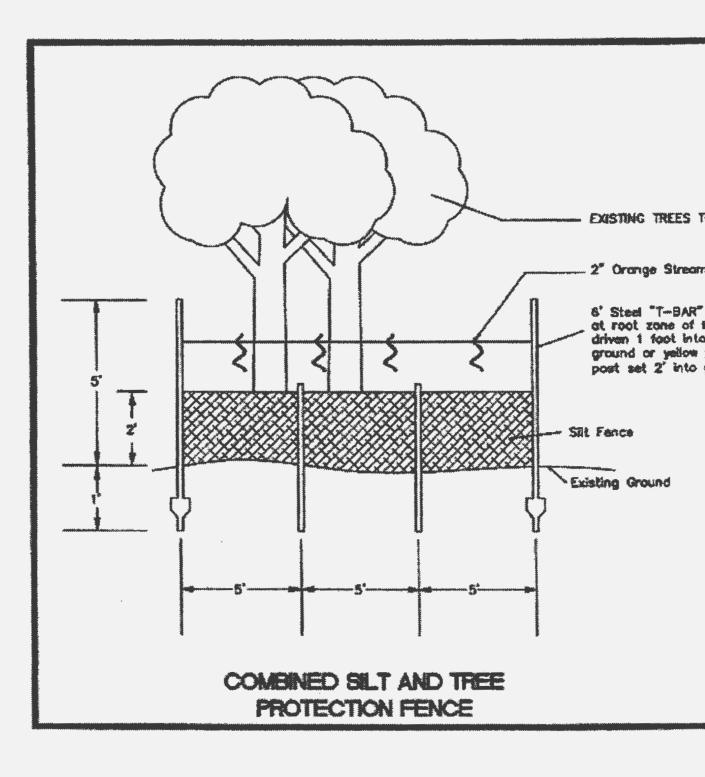
Bruce Vawter
Consulting Forester
ISA Certified Arborist # MW-0469
SAF Certified Forester #2501



DETAIL 1



DETAIL 2



DETAIL 3