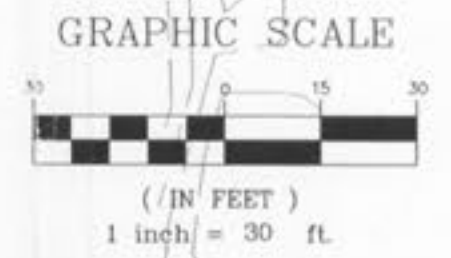
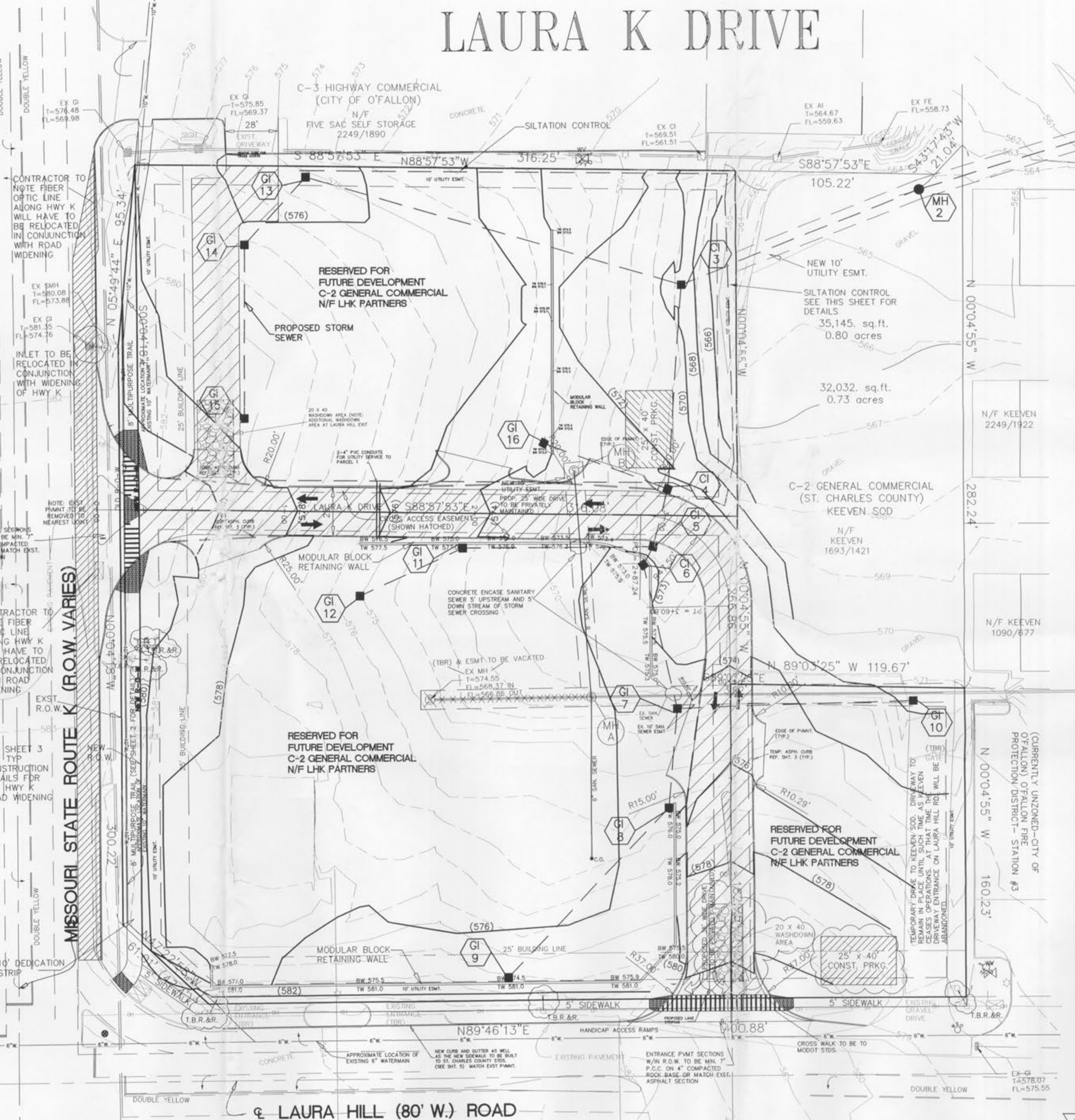


CONSTRUCTION PLAN LAURA K DRIVE



MISSOURI STATE ROUTE K (R.O.W. VARIES)

MISSOURI STATE ROUTE K (R.O.W. VARIES)



LEGEND

- Sanitary Sewer (Proposed)
- Storm Sewer (Proposed)
- Water Line and Size
- Gas Line
- Electric Line
- Telephone Line
- Overhead Power Line
- Gas Valve
- Gas Meter
- Water Meter
- Found Old Iron Pipe
- Found Old Iron Rod
- Found Old Stone
- Benchmark
- Temporary Swale
- Concrete Pipe
- Reinforced Concrete Pipe
- Corrugated Metal Pipe
- Polyvinyl Chloride Pipe
- Cast Iron Pipe
- Utilized Clay Pipe
- End Pipe
- Flared End Section
- Clean Out
- Manhole
- Double Curb Inlet
- Area Inlet
- Double Area Inlet
- Grate Inlet
- Concrete Catchment
- Use In Place
- To Be Removed
- To Be Removed & Relocated/Replaced
- Set Iron Rod with Cap
- C.M.
- O.I.P.
- O.S.T.
- O.I.R.
- Existing Stump
- Existing Tree
- Existing Evergreen

GENERAL NOTES

- THE SITE AREA = 3.56 AC.
- THIS DEVELOPMENT SHALL COMPLY WITH ALL CONDITIONS AS SET FORTH IN ORDINANCES BY THE CITY OF O'FALLON, ST. CHARLES COUNTY AND THE STATE OF MISSOURI.
- PROJECT B.M. RAILROAD SPIKE LOCATED AT THE SOUTHWEST CORNER OF THE PROPERTY WITH TOP ELEVATION 582.81. PROJECT BENCHMARK (RM66) - ELEV. 581.74 (NGVD 29) - PER FIRM MAP 29183C0237 E, REVISED AUG. 2, 1996. BENCHMARK IS A CROSS CUT IN THE WESTBOLT OF A FIRE HYDRANT LOCATED AT THE NORTHEAST CORNER OF MILL POND DRIVE AND SPRING HILL DRIVE.
- PROPERTY BOUNDARY INFORMATION TAKEN FROM BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY ZAVRADINOS PROFESSIONAL SERVICES, INC., DATED APRIL, 2003. ADDITIONAL INFORMATION PROVIDED BY THE CITY OF O'FALLON AND ST. CHARLES COUNTY RECORDER OF DEEDS OFFICE THE BASIS OF EASEMENTS FOR THIS SURVEY IS A BOUNDARY SURVEY PERFORMED BY METTS & ASSOCIATES DATED FEBRUARY 1999.
- UTILITIES/DISTRICTS:
WATER: PUBLIC WATER DISTRICT #2
GAS: LACLEDE GAS CO.
TELEPHONE: AMERTECH
ELECTRIC: AMEREN UE
SANITARY SEWER: CITY OF O'FALLON
SCHOOL DISTRICT: FORT ZUMWALT SCHOOL DISTRICT
FIRE DISTRICT: O'FALLON FIRE PROTECTION DISTRICT
POST OFFICE: CITY OF O'FALLON
ALSO CONTACT THE CITY OF O'FALLON FOR UTILITY LOCATES AND FOR VERIFICATION OF THE ABOVE.
- TRACT IS LOCATED IN:
O'FALLON, MO USGS QUADRANGLE MAP
WUNNENBURG MAP PAGE 46, SECTION RR-18
- SITE ADDRESS: 2028 HWY K, O'FALLON, MO 63376.
- ALL SIGN POSTS, BACKS, AND BRACKET ARMS SHALL BE PAINTED BLACK USING CARBOLINE RUBSTON PENETRATING SEALER SG AND CARBOLINE 133 HB PAINT (OR EQUIVALENT AS APPROVED BY THE CITY AND MODOT). SIGNS DESIGNATING STREET NAME SHALL BE ON THE OPPOSITE SIDE OF THE STREET FROM TRAFFIC CONTROL SIGNS. ALL SIGNS TO BE SUBMITTED FOR APPROVAL SEPARATELY.
- ALL UTILITIES TO BE LOCATED UNDERGROUND.
- CITY WATER METERS TO BE PLACED IN A DEDICATED EASEMENT AND SHALL BE APPROVED BY ALLIANCE WATER RESOURCES.
- ALL STORM SEWERS ON/OFF SITE TO BE PRIVATE.
- A SPECIAL USE PERMIT MUST BE OBTAINED FROM ST. CHARLES COUNTY HIGHWAY DEPARTMENT BEFORE ANY WORK CAN BE PERFORMED ON LAURA HILL ROAD RIGHT OF WAY. PLEASE CONTACT JONNA C RAY AT ST. CHARLES COUNTY HIGHWAY DEPARTMENT AT 636-949-7305.
- ST. CHARLES COUNTY HIGHWAY DEPARTMENT SHALL BE NOTIFIED 24 HOURS PRIOR TO THE START OF CONSTRUCTION. CONTACT TERRY RIGGS AT 636-949-7305.

SHEET INDEX:

| SHEET NO. | DESCRIPTION |
|-----------|---------------------------------|
| 1 OF 8 | LAURA K DRIVE CONSTRUCTION PLAN |
| 2 OF 8 | DRIVE CONSTRUCTION DETAILS |
| 3 OF 8 | MODOT CONSTRUCTION DETAILS |
| 4 OF 8 | SEWER PROFILES |
| 5 OF 8 | SEWER CONSTRUCTION DETAILS |
| 6 OF 8 | SWPPP |
| 7 OF 8 | DRAINAGE AREA MAP |
| 8 OF 8 | TRAFFIC CONTROL PLAN |

O'FALLON P&Z # 3903.01

ENGINEERS CERTIFICATION:
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ZAVRADINOS PROFESSIONAL SERVICES, INC.
JEREMY B. CHILTON
NUMBER
2005000963
DATE
11-10-05
APPROVED
as noted

Prepared For: **ZEE PROPERTIES**
17813 EDISON AVE., SUITE 201
CHESTERFIELD, MO. 63005 TEL. NO. (636) 946-5555

Z
Zavradinos Engineering and Surveying
Engineers Surveyors Planners
17813 Edison Avenue, Suite 201
Chesterfield, MO 63005
636-946-5555

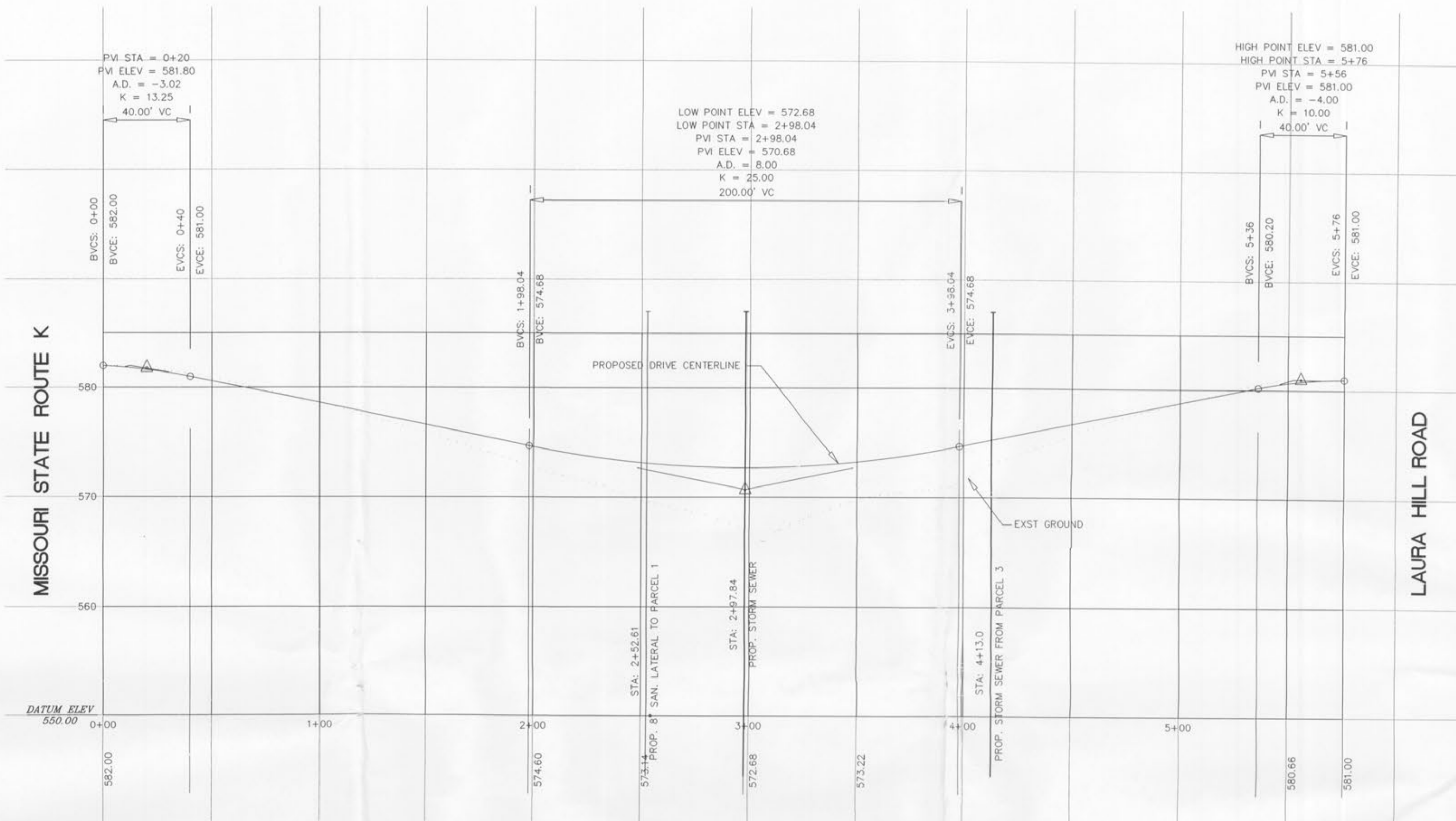
| | | | |
|---|----------|---|-----|
| 4 | 10/21/06 | Revisions per City of O'Fallon | ZBC |
| 3 | 10/7/05 | Revisions per MODOT | ZBC |
| 2 | 9/22/05 | Revisions per St. Charles County Highways | ZBC |
| 1 | 9/2/05 | Revisions per City of O'Fallon | ZBC |

Drawn by: JBC
Checked by: DJZ
Issued on: 7/1/05
Job Number: 03138
Sheet: 1 of 8

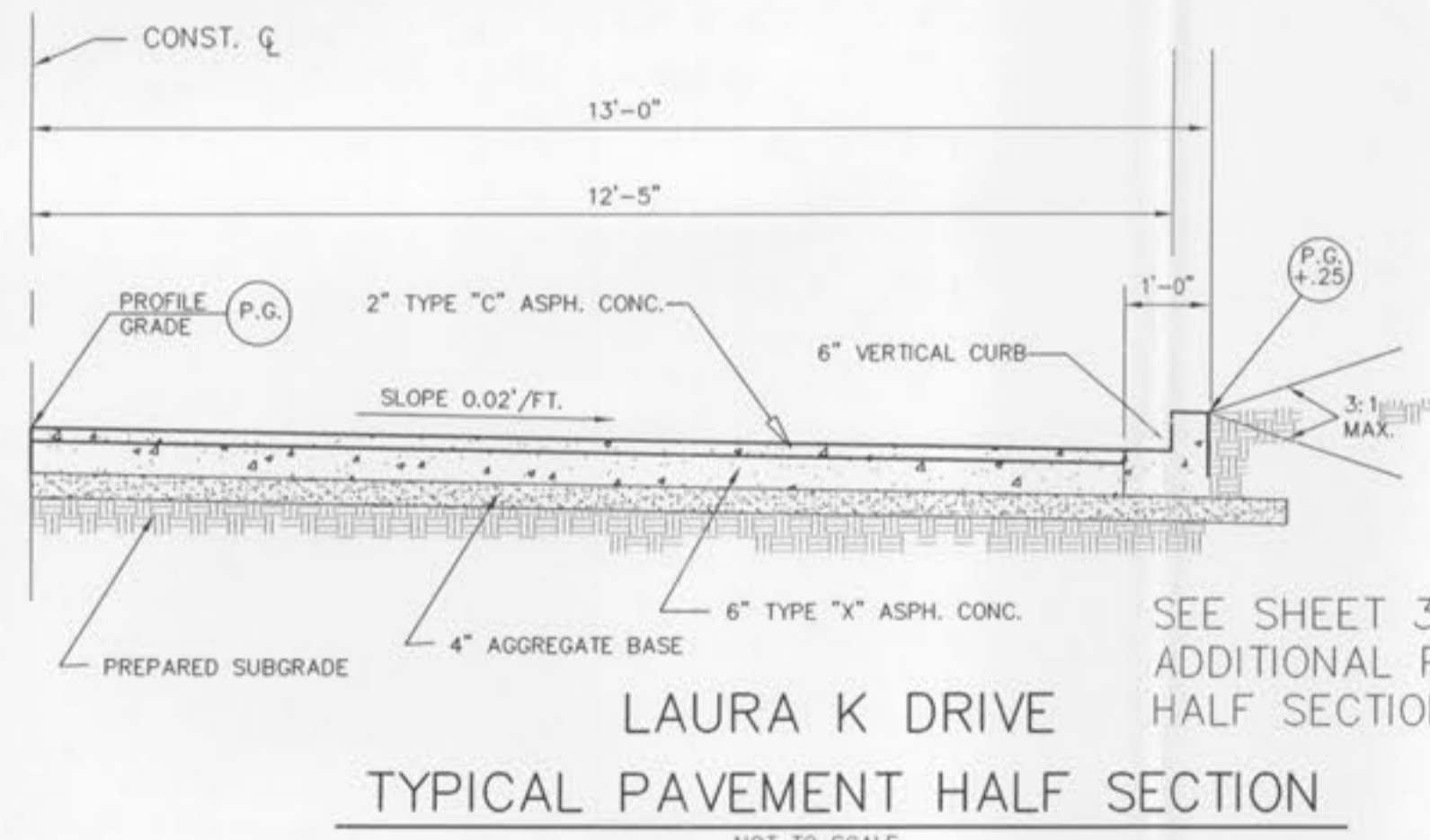
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GENERAL NOTES

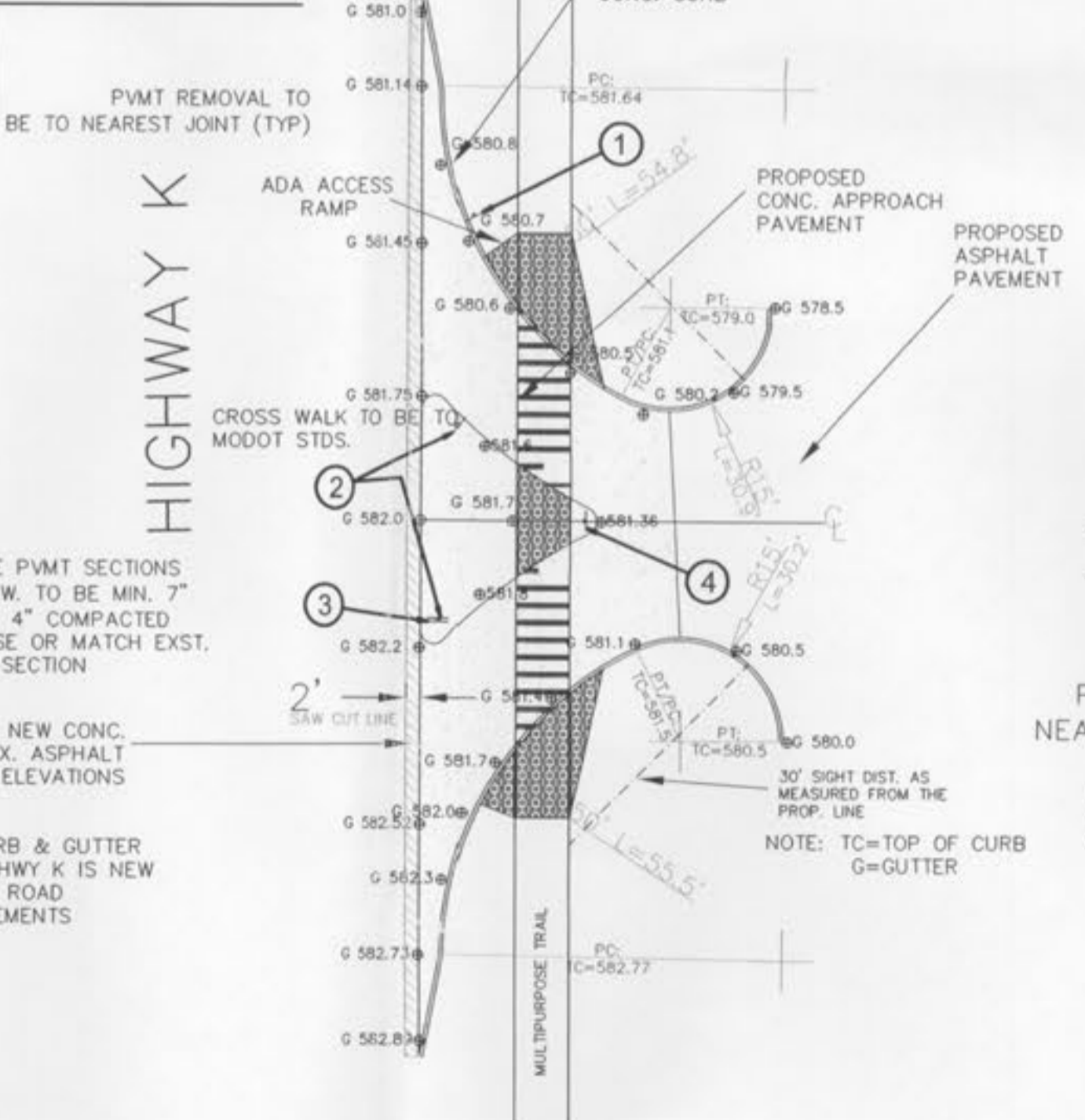
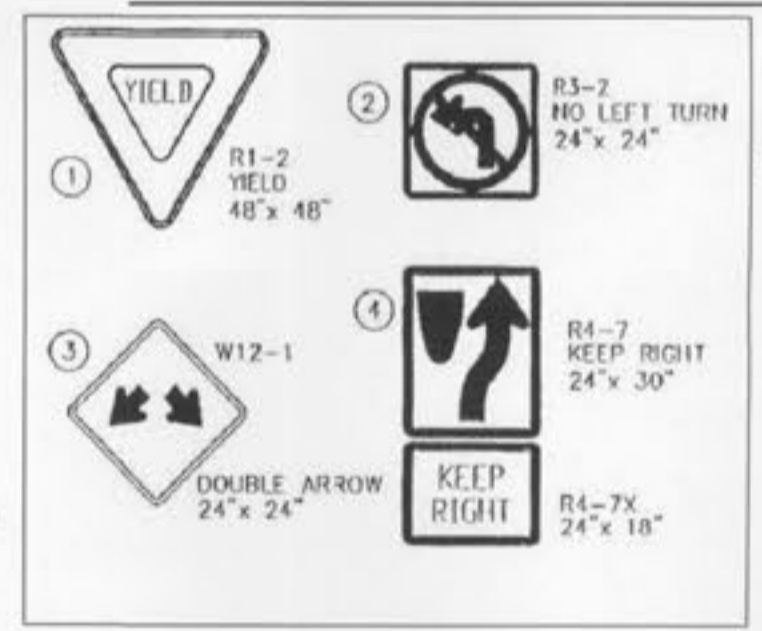
- NOTIFY CITY OF O'FALLON BUILDING DEPARTMENT AND BUILDING DEPARTMENT 48 HOURS PRIOR TO THE STARTING OF GRADING AND/OR CONSTRUCTION. REV. 9/2/05
- ALL FILLS PLACED UNDER PROPOSED STORM AND SANITARY SEWER, PROPOSED ROADS, AND/OR PAVED AREAS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-180 COMPACTION TEST OR 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99. ALL FILLED PLACED IN PROPOSED ROADS SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP. ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS. REV. 10/7/05
- EROSION AND SILTATION CONTROL SHALL BE INSTALLED PRIOR TO ANY GRADING AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR CONTROLLING REGULATORY AGENCY AND ADEQUATE VEGETATIVE GROWTH INSURES NO FURTHER EROSION OF THE SOIL. REV. 10/21/05
- SEDIMENT AND EROSION CONTROL SHALL NOT BE LIMITED TO THE MEASURES SHOWN ON THE PLANS. THE CONTRACTOR, WITH THE APPROVAL OF THE CITY INSPECTOR, SHALL UTILIZE BEST MANAGEMENT PRACTICES TO PREVENT SEDIMENT FROM ENTERING ADJACENT PROPERTIES, ROADWAYS, STORM SEWERS, AND DRAINAGE WAYS.
- THE STREETS SURROUNDING THIS DEVELOPMENT AND ANY STREET USED FOR CONSTRUCTION ACCESS THERETO SHALL BE CLEANED THROUGHOUT THE DAY.
- ALL TRASH AND DEBRIS ON-SITE, EITHER EXISTING OR FROM CONSTRUCTION, MUST BE REMOVED AND PROPERLY DISPOSED OF OFF SITE.
- DEBRIS AND FOUNDATION MATERIAL FROM ANY ON-SITE BUILDING OR STRUCTURE THAT IS SCHEDULED TO BE RAZED FOR THIS DEVELOPMENT MUST BE PROPERLY DISPOSED OF OFF-SITE.
- PROPOSED STORM SEWERS SHALL COMPLY WITH ALL CITY, COUNTY & STATE STORMWATER MANAGEMENT ORDINANCES.
- ALL GRADES TO BE WITHIN 0.20± FEET OF PROPOSED CONTOURS AND ELEVATIONS SHOWN ON THE GRADING PLAN.
- ALL NON-PAVED AREAS OF THIS DEVELOPMENT TO BE SEEDED OR COVERED WITH SOD.
- ALL EXCAVATIONS, GRADING OR FILLING SHALL HAVE A FINISH GRADE NOT TO EXCEED A 3:1 SLOPE [3 HORIZONTAL TO 1 VERTICAL] (33%) UNLESS SPECIFICALLY APPROVED OTHERWISE.
- ALL EROSION CONTROL SYSTEMS TO BE INSPECTED AND NECESSARY CORRECTIONS TO BE MADE WITHIN 24 HOURS OF ANY RAINSTORM RESULTING IN ONE-HALF INCH OF RAIN OR MORE.
- ANY GRADED AREAS THAT ARE TO REMAIN BARE FOR MORE THAN TWO WEEKS ARE TO BE SEEDED AND MULCHED.
- CONTRACTOR TO TURN IN GRADING APPLICATION AND PLANS AFTER SITE APPROVAL. SOIL COMPACTION TESTING REPORTS SHALL BE TURNED IN TO THE CITY INSPECTOR THROUGHOUT THE CONSTRUCTION PROCESS.
- PROVIDE SILTATION CONTROL AROUND ALL STORM SEWER INLETS AS SHOWN ON THE SWPPP PLAN.
- RP-RAP SHOWN AT FLARED ENDS WILL BE EVALUATED IN THE FIELD AFTER INSTALLATION FOR EFFECTIVENESS AND FIELD MODIFIED, IF NECESSARY, TO REDUCE EROSION ON AND OFF SITE.
- ALL PAVING TO BE IN ACCORDANCE WITH THE ST. CHARLES COUNTY STANDARDS AND SPECIFICATIONS EXCEPT AS MODIFIED BY THE CITY OF O'FALLON ORDINANCES.
- ALL SIDEWALKS, CURB RAMPS, RAMP AND RAMP ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) ALONG WITH THE REQUIRED GRADES, CONSTRUCTION MATERIAL, SPECIFICATIONS AND SIGNAGE. IF ANY CONFLICT OCCURS BETWEEN THE ABOVE INFORMATION AND THE PLANS, THE ADAAG GUIDELINES SHALL TAKE PRECEDENCE AND THE CONTRACTOR, PRIOR TO ANY CONSTRUCTION, SHALL NOTIFY THE PROJECT ENGINEER. (NOTE THAT AT LEAST ONE 8' WIDE HANDICAP ACCESS AISLE IS PROVIDED AND CURB RAMPS DO NOT PROJECT INTO HANDICAP ACCESS AISLE).



LAURA K DRIVE PROFILE

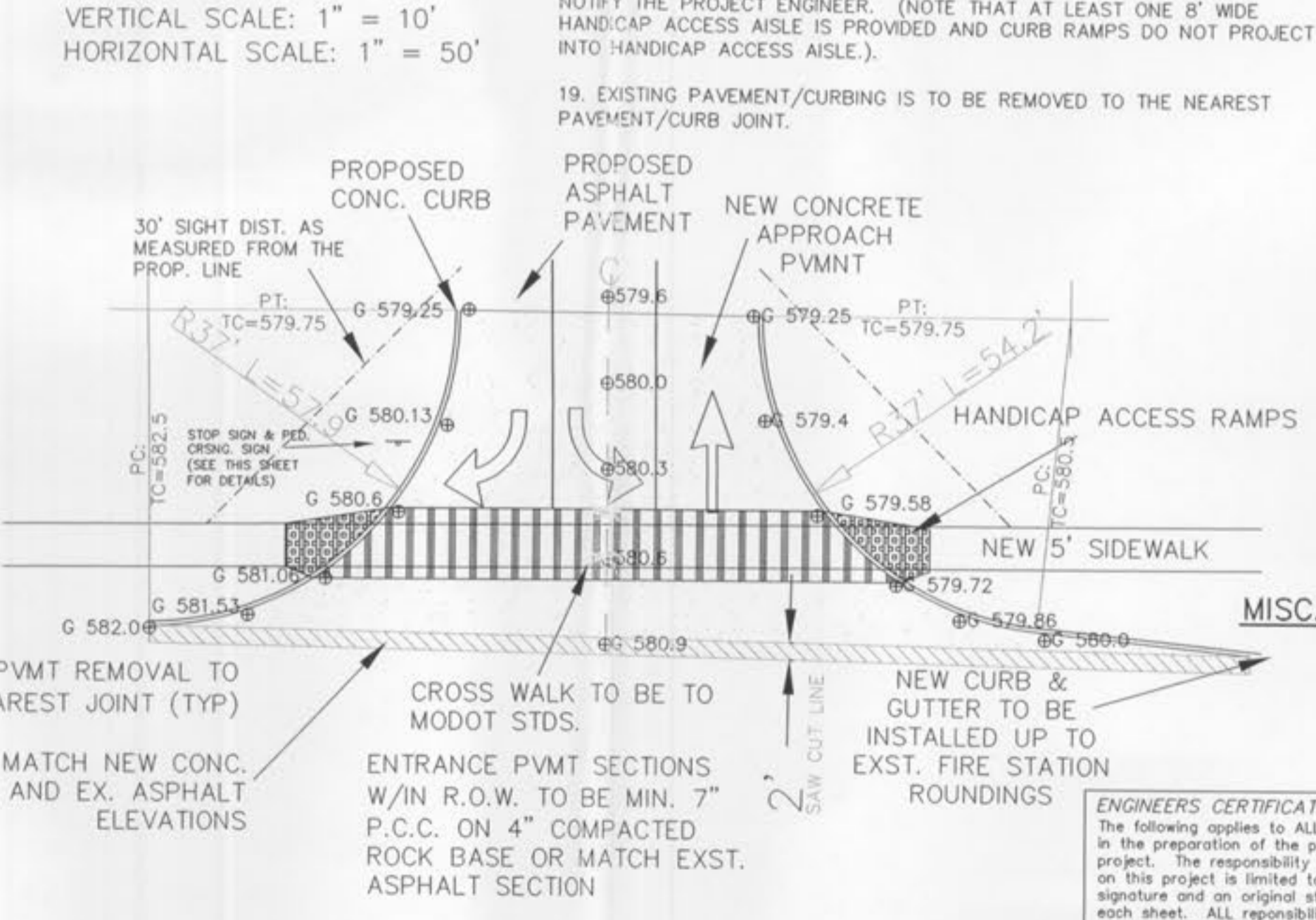


LAURA K DRIVE TYPICAL PAVEMENT HALF SECTION NOT TO SCALE



ENTRANCE DETAIL AT HWY K

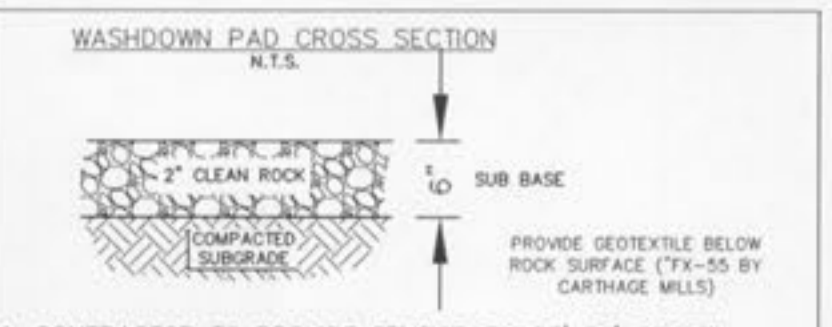
NOTE: EXISTING PAVEMENT/CURBING REMOVAL IS TO BE TO THE NEAREST PAVEMENT/CURB JOINT



ENTRANCE DETAIL AT LAURA HILL

NOTE: EXISTING PAVEMENT/CURBING REMOVAL IS TO BE TO THE NEAREST PAVEMENT/CURB JOINT

O'FALLON P&Z # 3903.01 -ROAD PROFILE/DETAILS-



- CONTRACTOR TO PROVIDE TEMPORARY 25'x50' GRAVEL WASH-DOWN PAD.
- PAD TO BE 6 INCH DEEP OF 2 INCH DIAMETER CLEAN ROCK.
- WHEN PARKING LOT IS READY FOR CONSTRUCTION, MUD AND SILT TO BE REMOVED AND ADDITIONAL ROCK TO BE ADDED TO ACHIEVE REQUIRED GRADE AND COMPACTION FOR PAVING.
- ALL TRUCKS TO BE WASHED DOWN PRIOR TO LEAVING THE SITE.

CONTRACTOR TO NOTIFY MoDOT TRAFFIC DIVISION TO LOCATE ANY EXISTING SIGNAL AND LIGHTING UNDERGROUND CABLES OR WIRES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR EARTHWORK. (314) 340-4100.

Missouri One Call System, Inc. Call Before You Dig! 1-800-DIG-RITE (1-800-344-7483)

ALL CURB & GUTTER ALONG HWY K IS NEW DUE TO ROAD IMPROVEMENTS

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24" x 24" SIGN "PEDESTRIAN CRSG" SIGN STOCK #USA-W11-2SRA16 STREET SIGNS U.S.A.



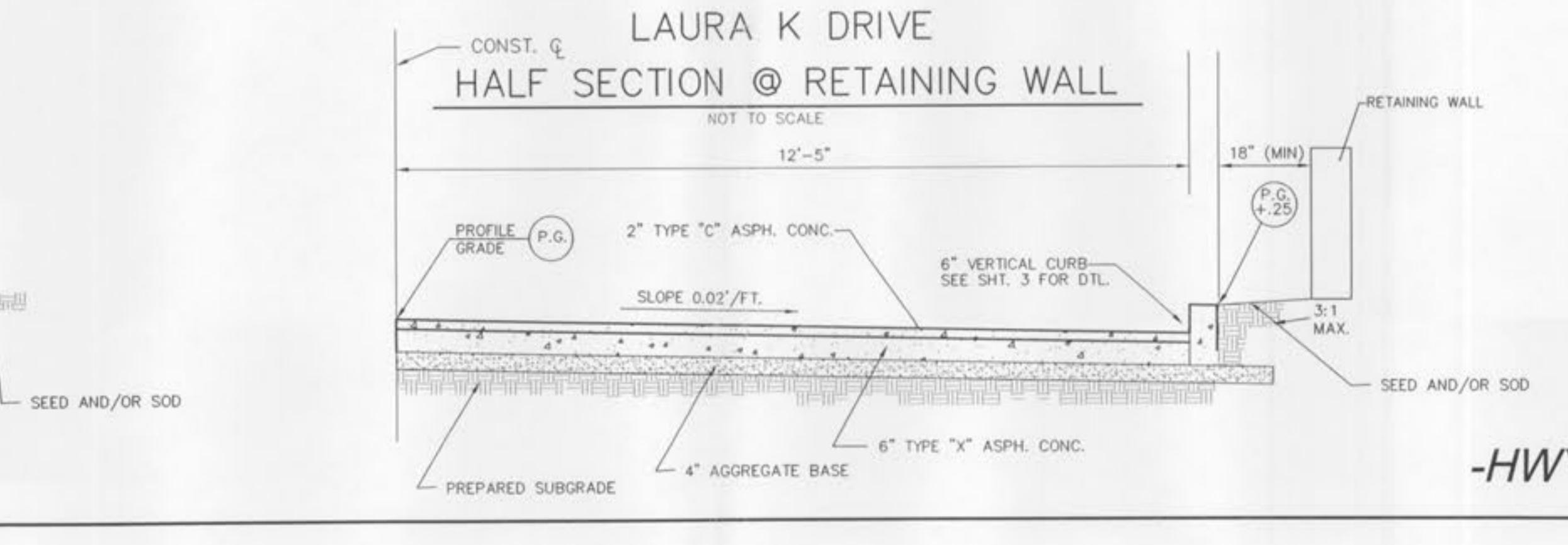
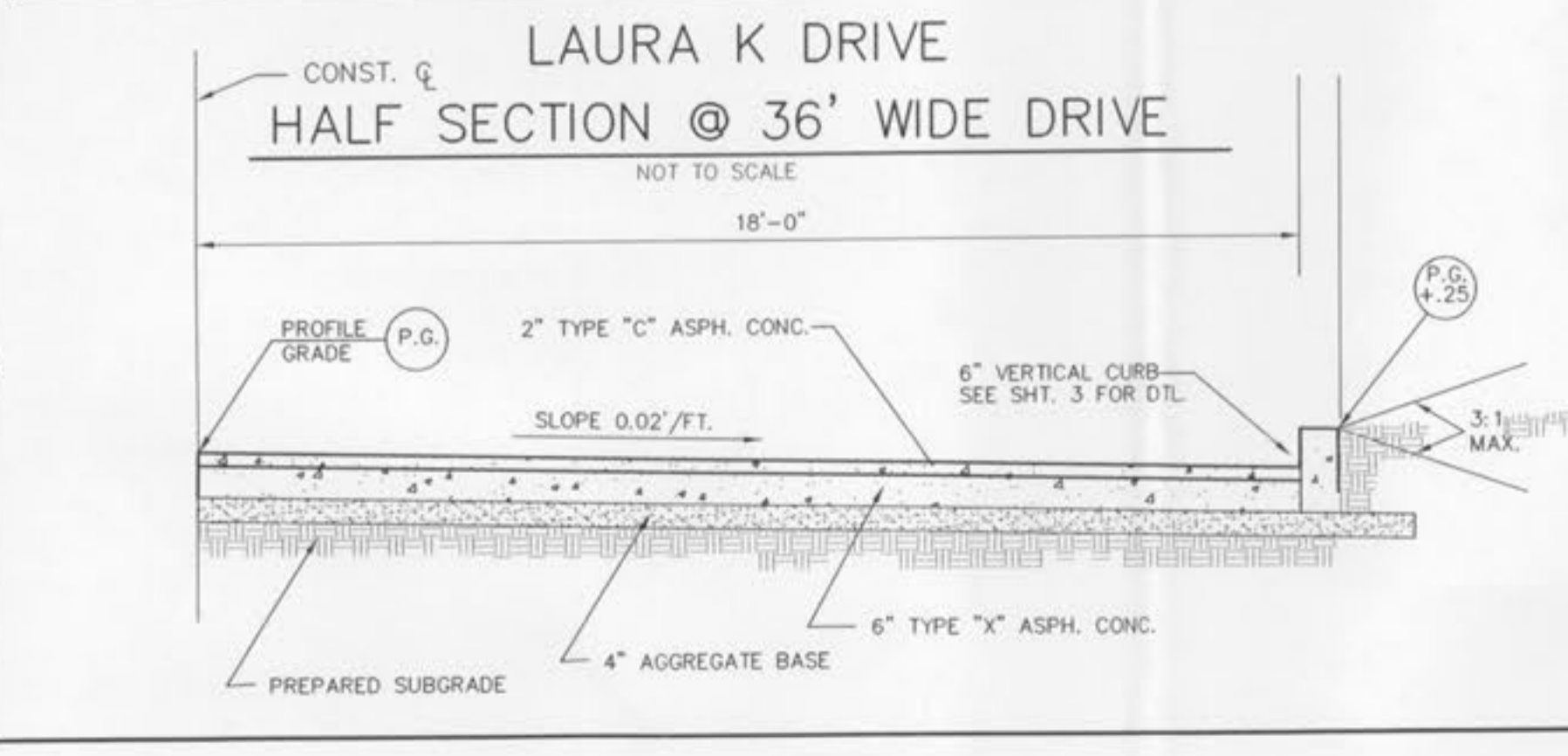
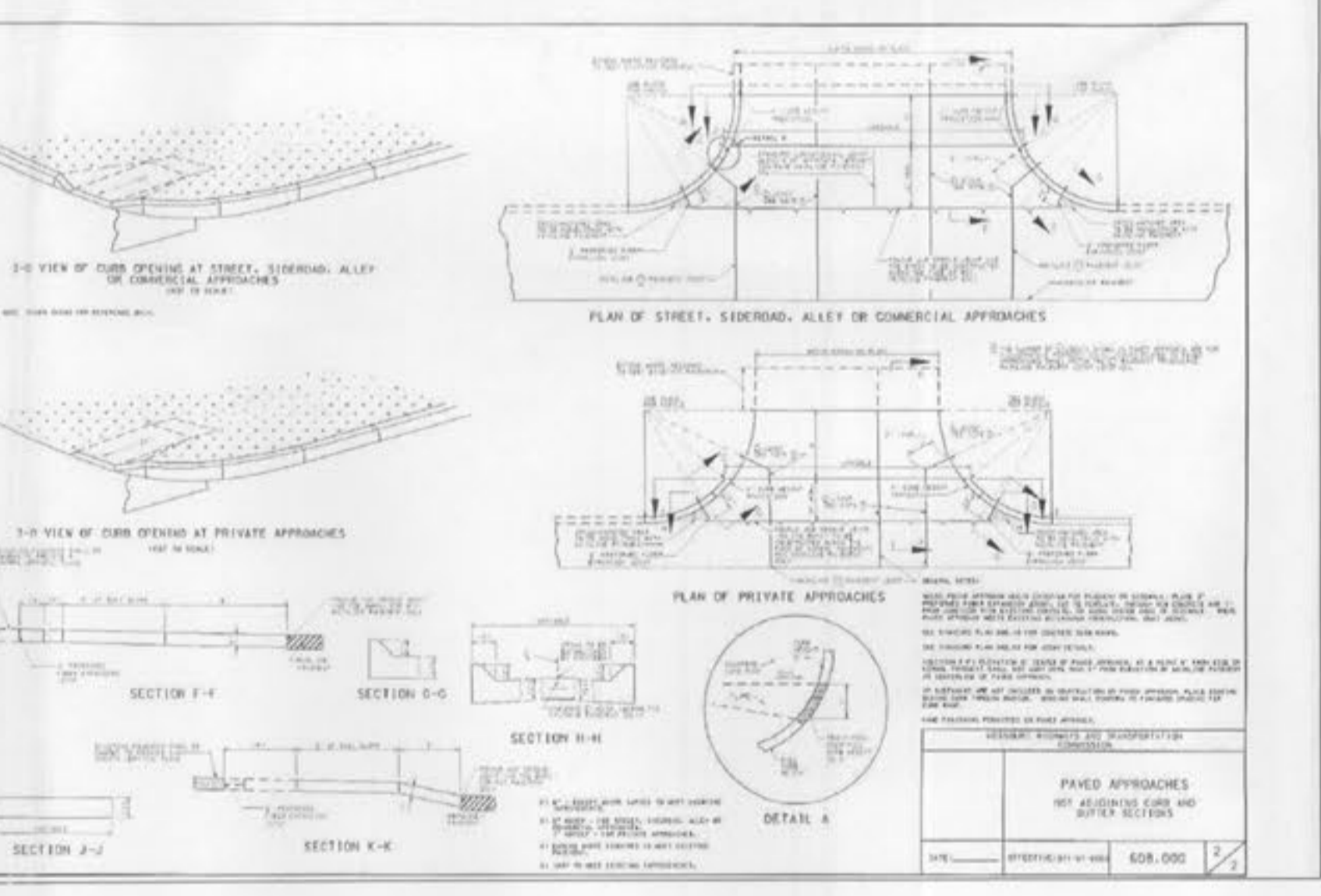
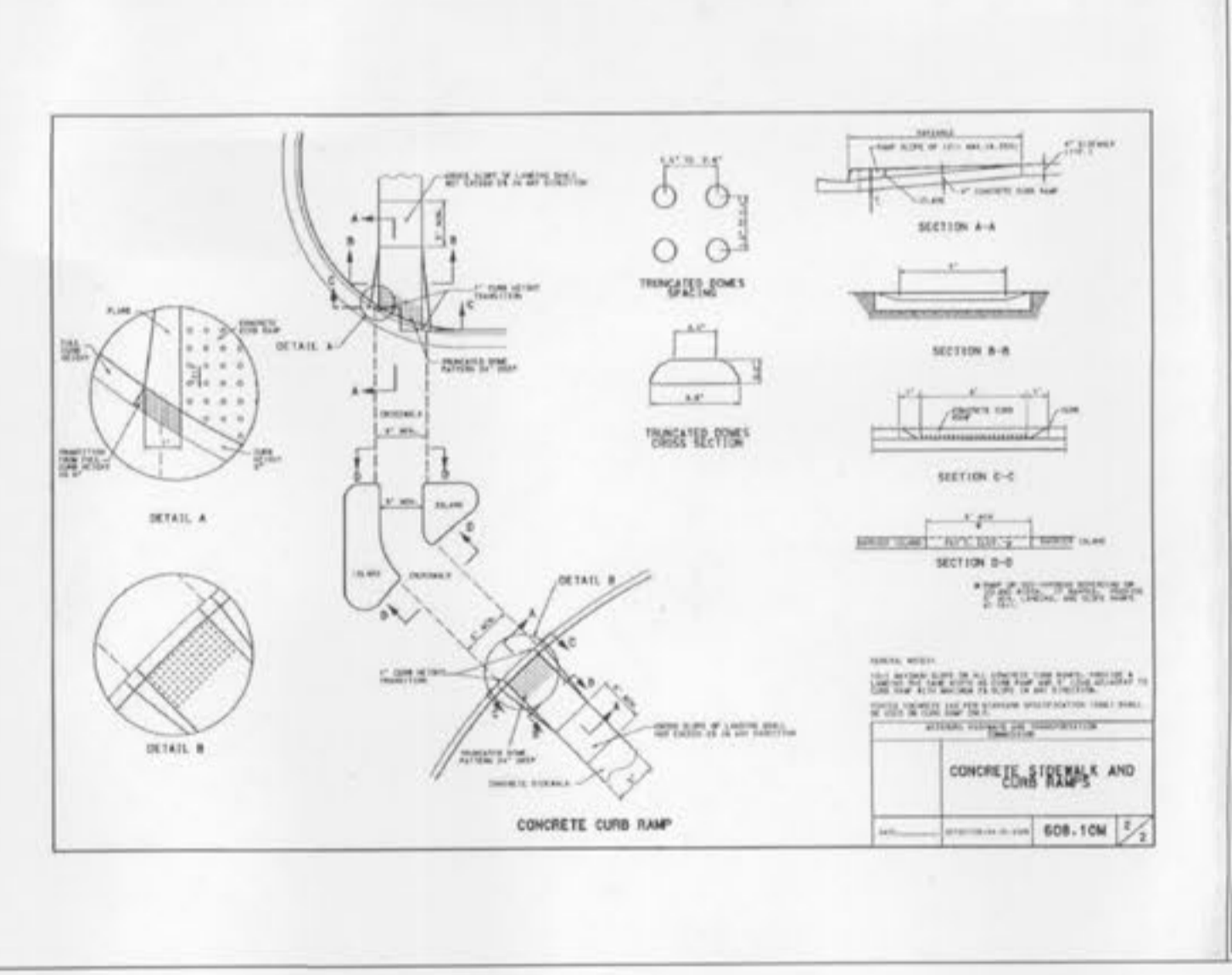
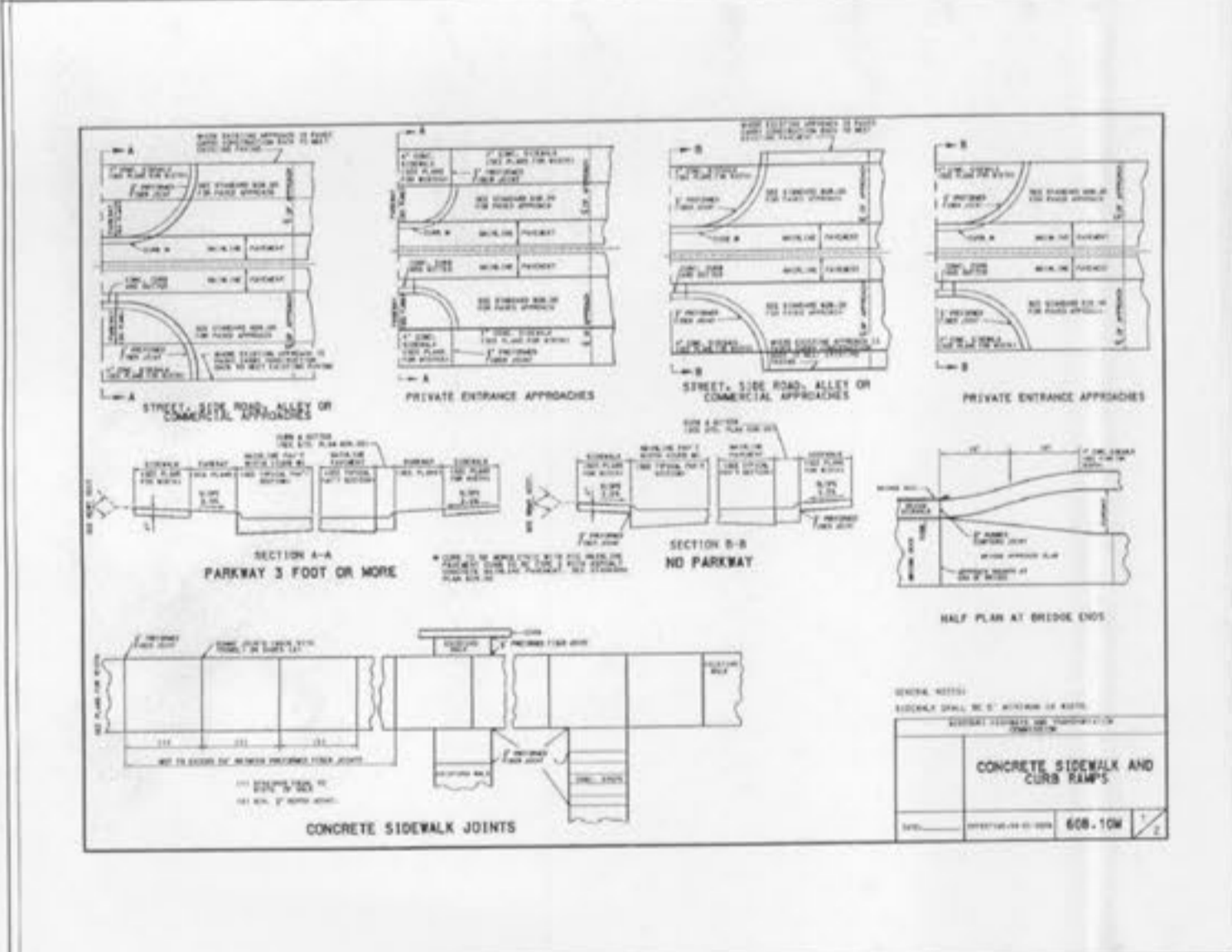
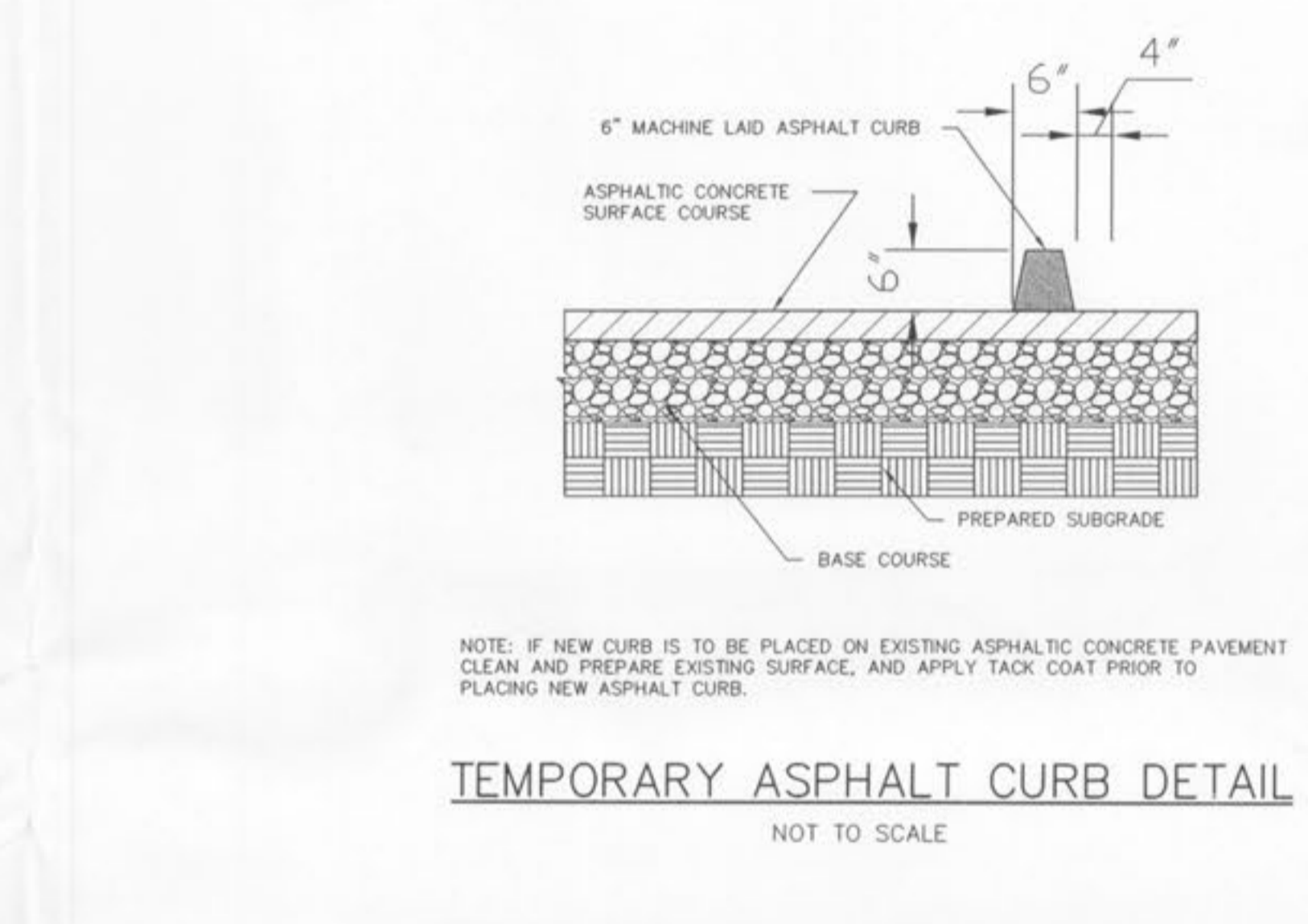
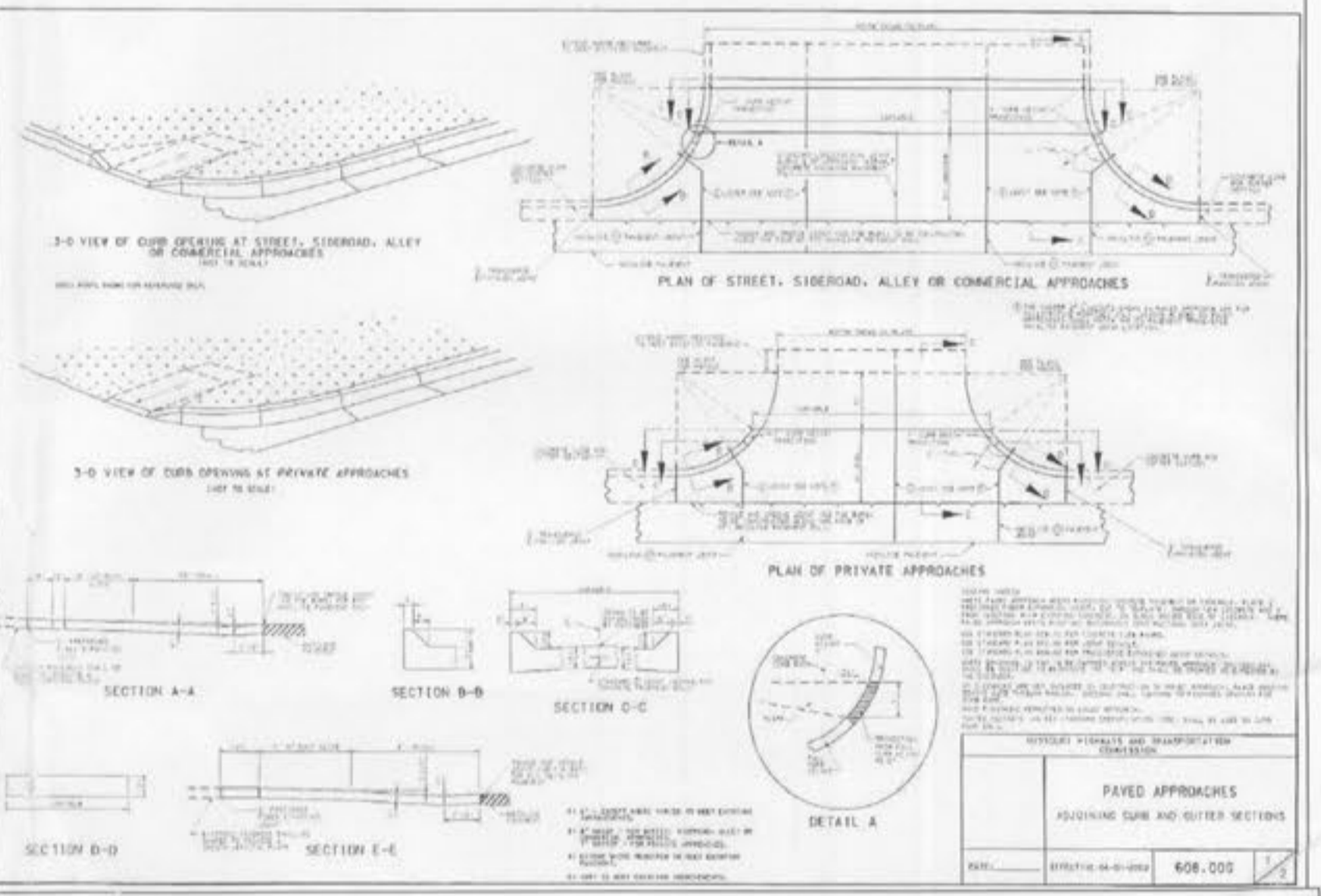
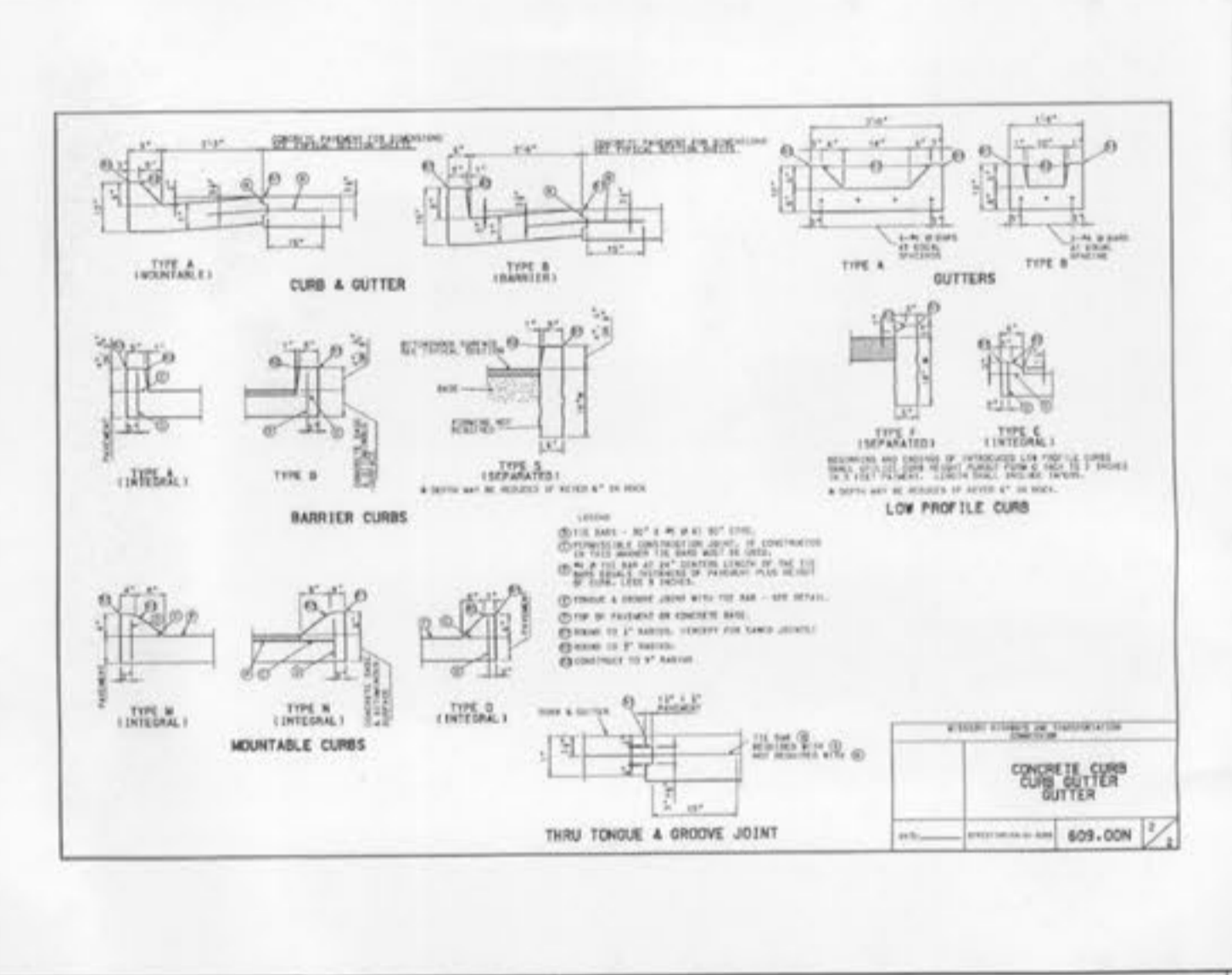
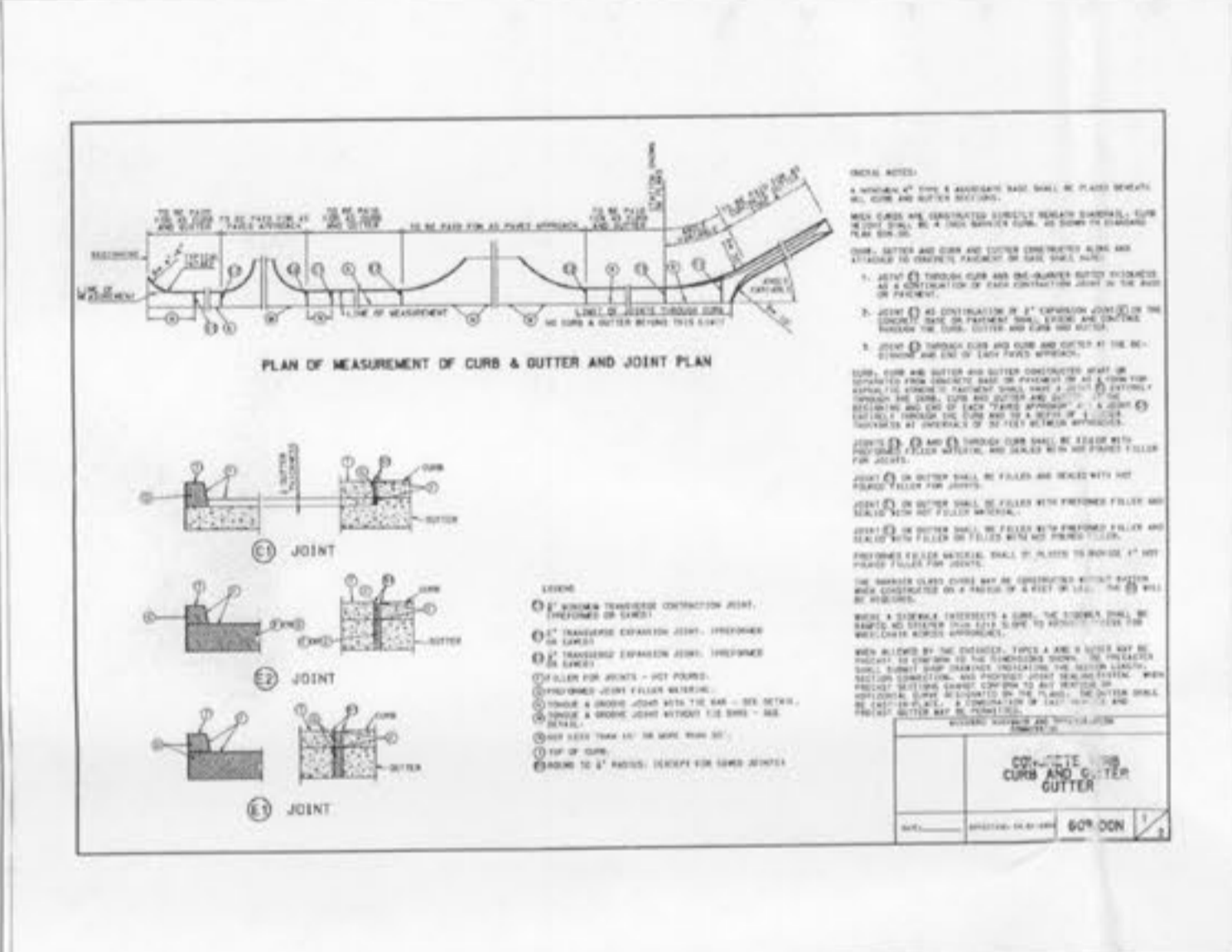
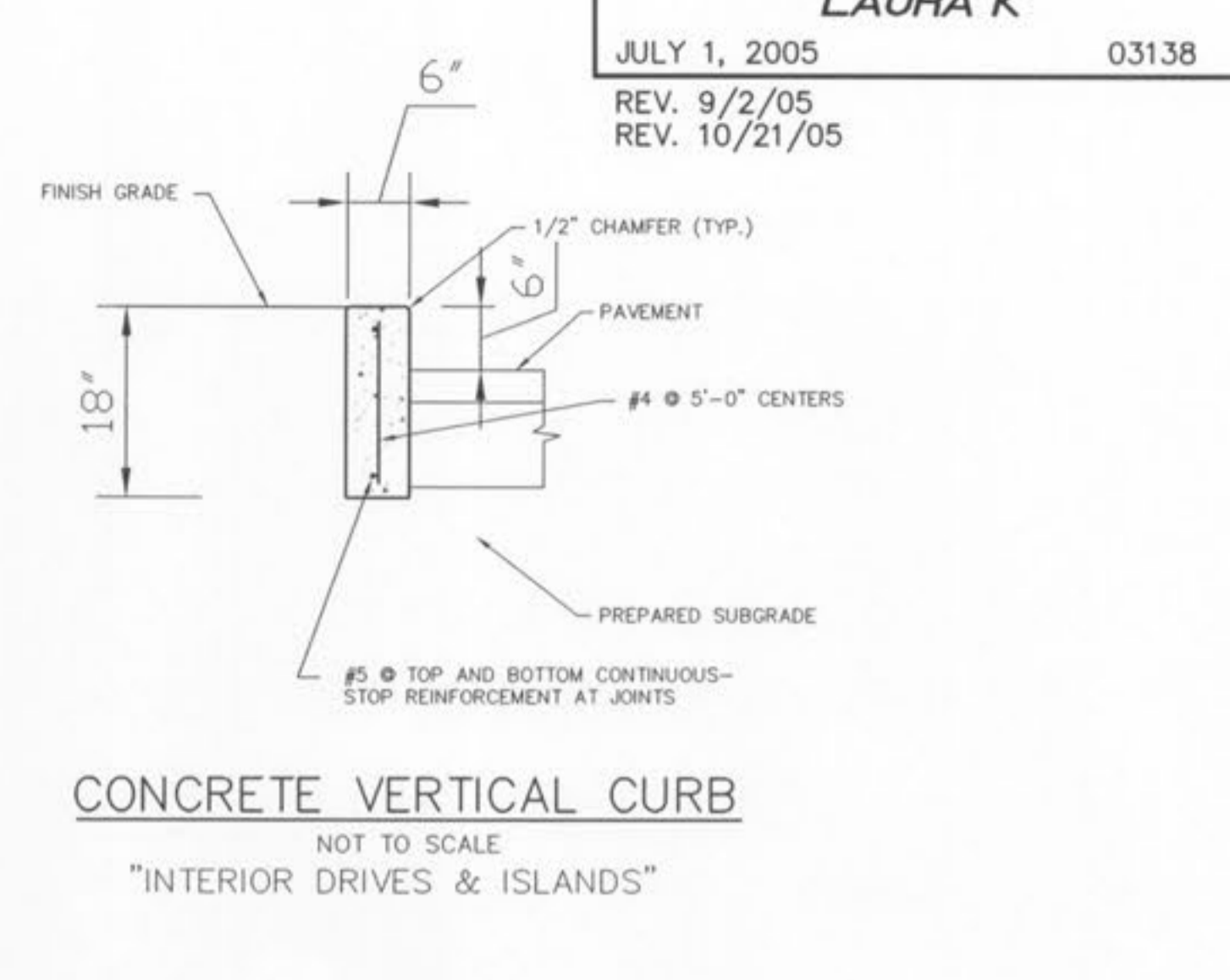
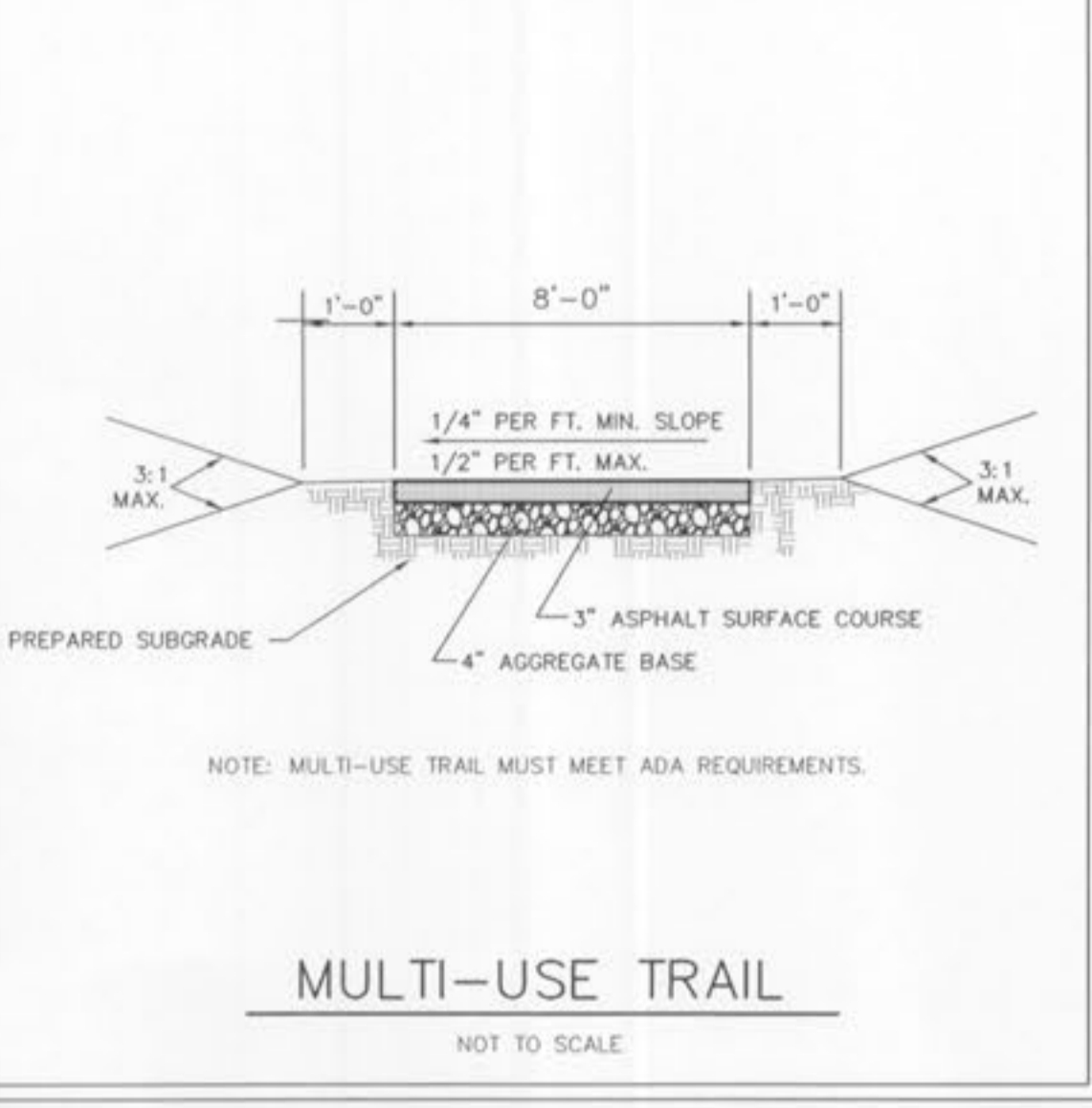
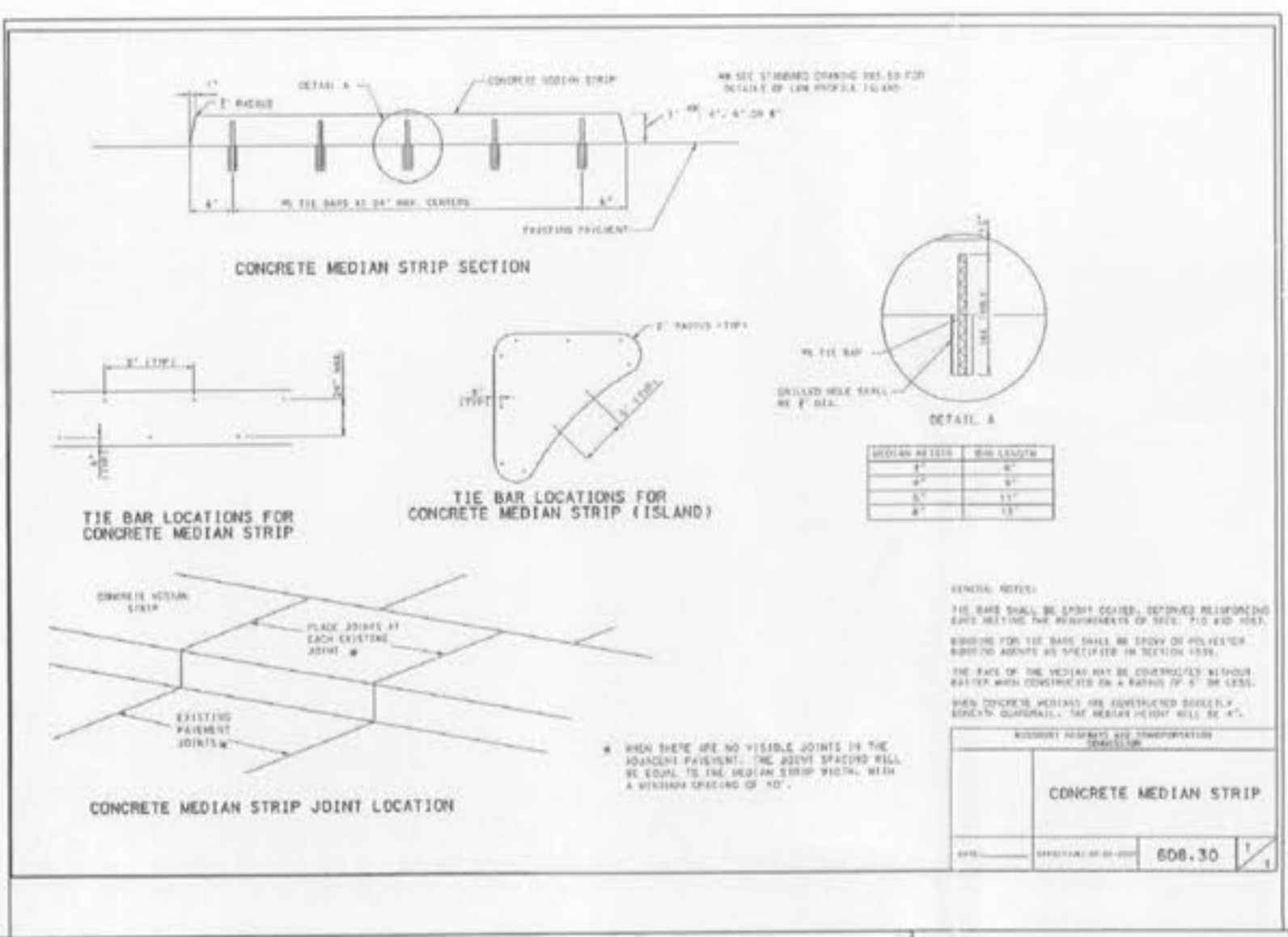
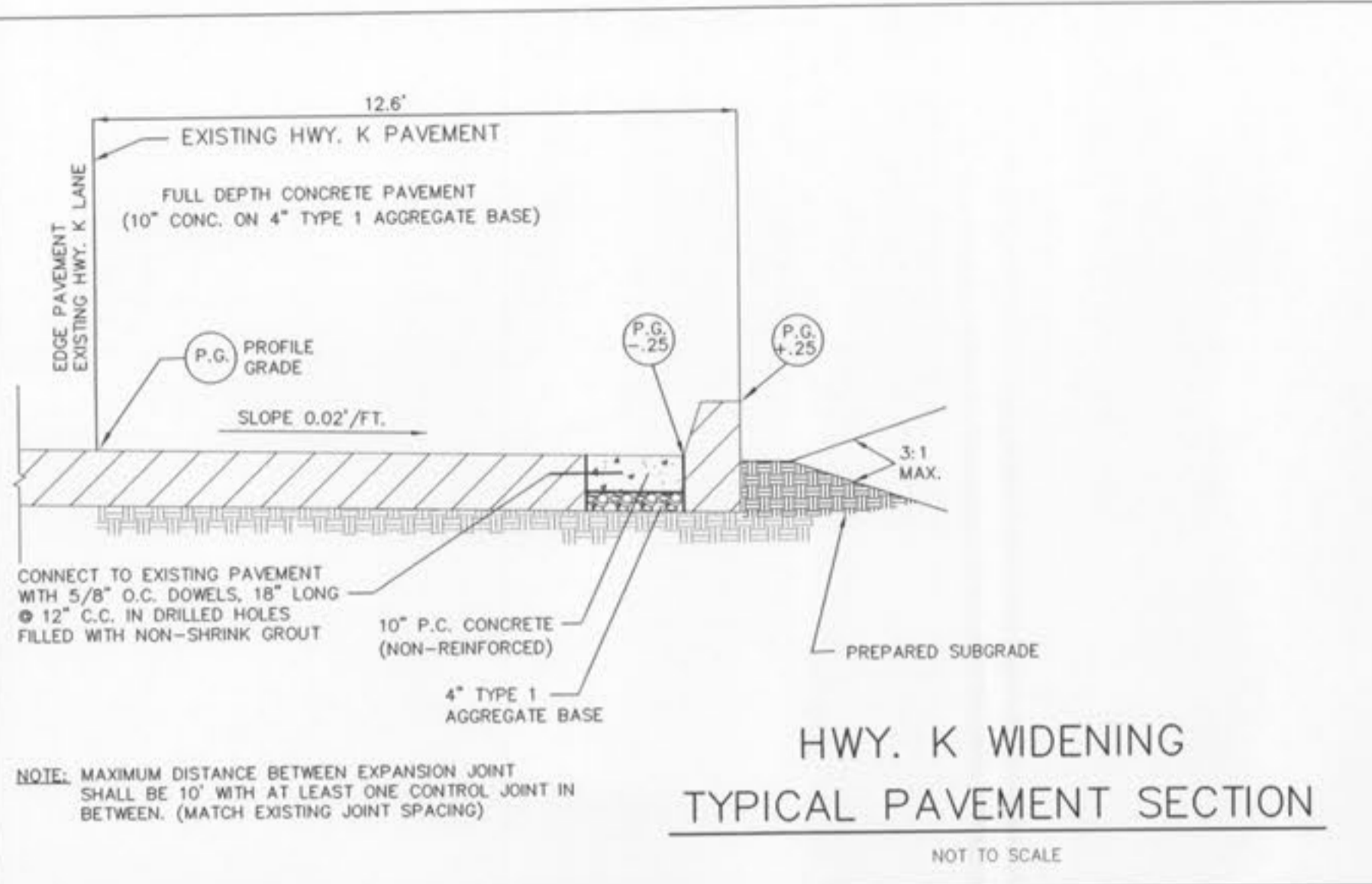
24" x 24" SIGN "STOP SIGN" SIGN STOCK #USA-R1-1RA16 STREET SIGNS U.S.A.

MISC. TRAFFIC CONTROL SIGNS NOT TO SCALE

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ZAVRADINOS PROFESSIONAL ENGINEERS, INC.

JEREMY B. CHILTON
NUMBER PE-200500963
DATE 7/1/2005



O'FALLON P&Z # 3903.01
 -HWY K CONSTRUCTION DETAILS-

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ZAVRADINOS PROFESSIONAL SERVICES, INC.
 STATE OF MISSOURI
 JEREMY B. CHILTON
 NUMBER
 PROFESSIONAL ENGINEER
 JEREMY B. CHILTON # 2005000963 DATE

Sheet 3 of 8

M:\Land Projects\03138 Hwy K & Laura Hill\dwg\03138 A Laura K Plan_Presentation-2 10-18-05.dwg, 10/25/2005 9:43:29 AM, \copy\REV-24DWG.JC



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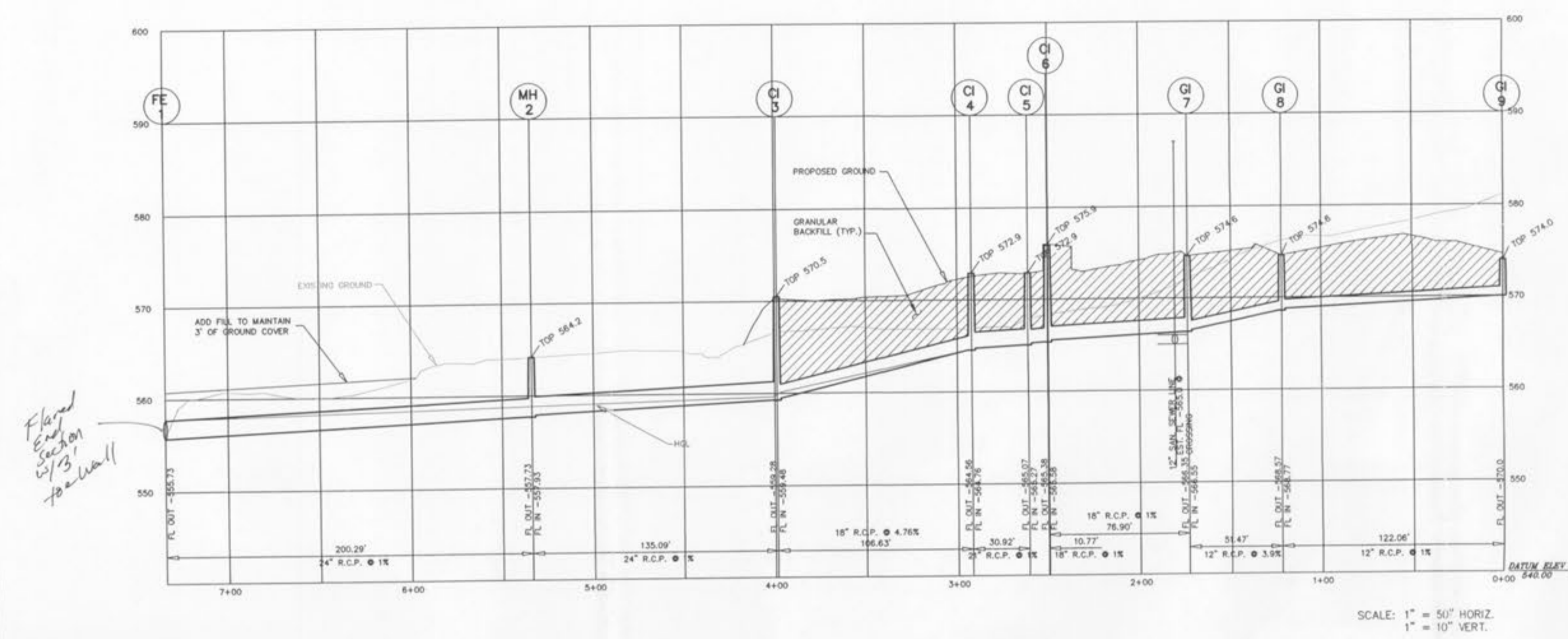
CONTRACTOR TO NOTIFY MoDOT TRAFFIC DIVISION TO LOCATE ANY EXISTING SIGNAL AND LIGHTING UNDERGROUND CABLES OR WIRES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR EARTHWORK. (314) 340-4100.

All the improvements & facilities and utilities, above ground and underground shown herein were plotted from available information and do not necessarily reflect the actual existence, nonexistence, elevation, size, type, number or location of these or other improvements, facilities, or utilities. The General Contractor and/or owner shall be responsible for verifying the actual location & elevation of all improvements, facilities, & utilities, shown or not shown, and making improvements, facilities, & utilities shall be located in the field prior to any grading, excavation or construction of any improvements. These provisions shall in no way obviate any part from complying with the Underground Facility Safety & Damage Prevention Act, Chapter 319, RSMo. CALL MISSOURI ONE-CALL, 1-800-DIG-RITE.

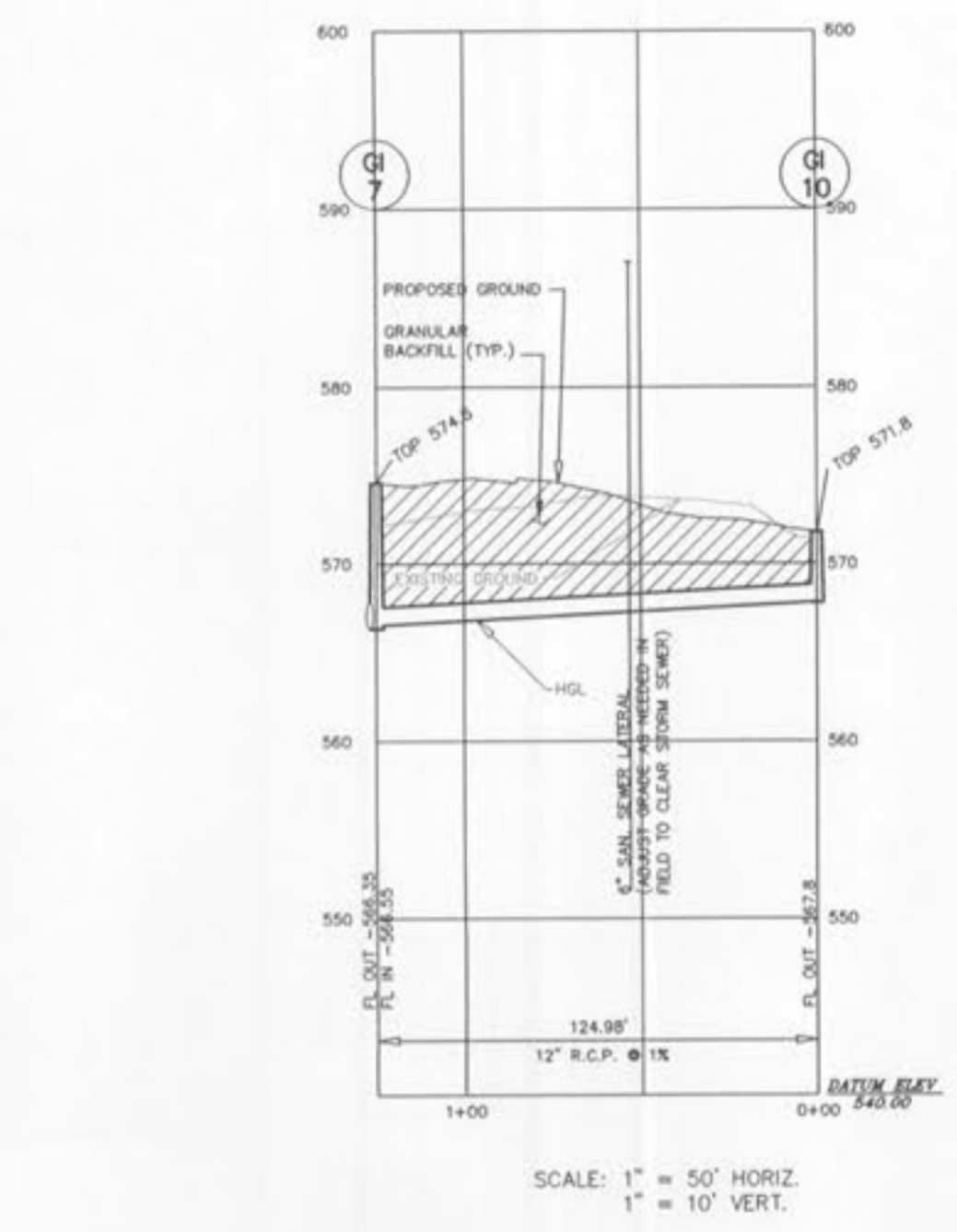
NOTE: ALL SEWER FLOWLINES TO BE FIELD VERIFIED AND, IF NEEDED, ADJUSTED TO PROVIDE ADEQUATE PIPE SLOPE AND MINIMUM GROUND COVER (3').

GENERAL NOTES

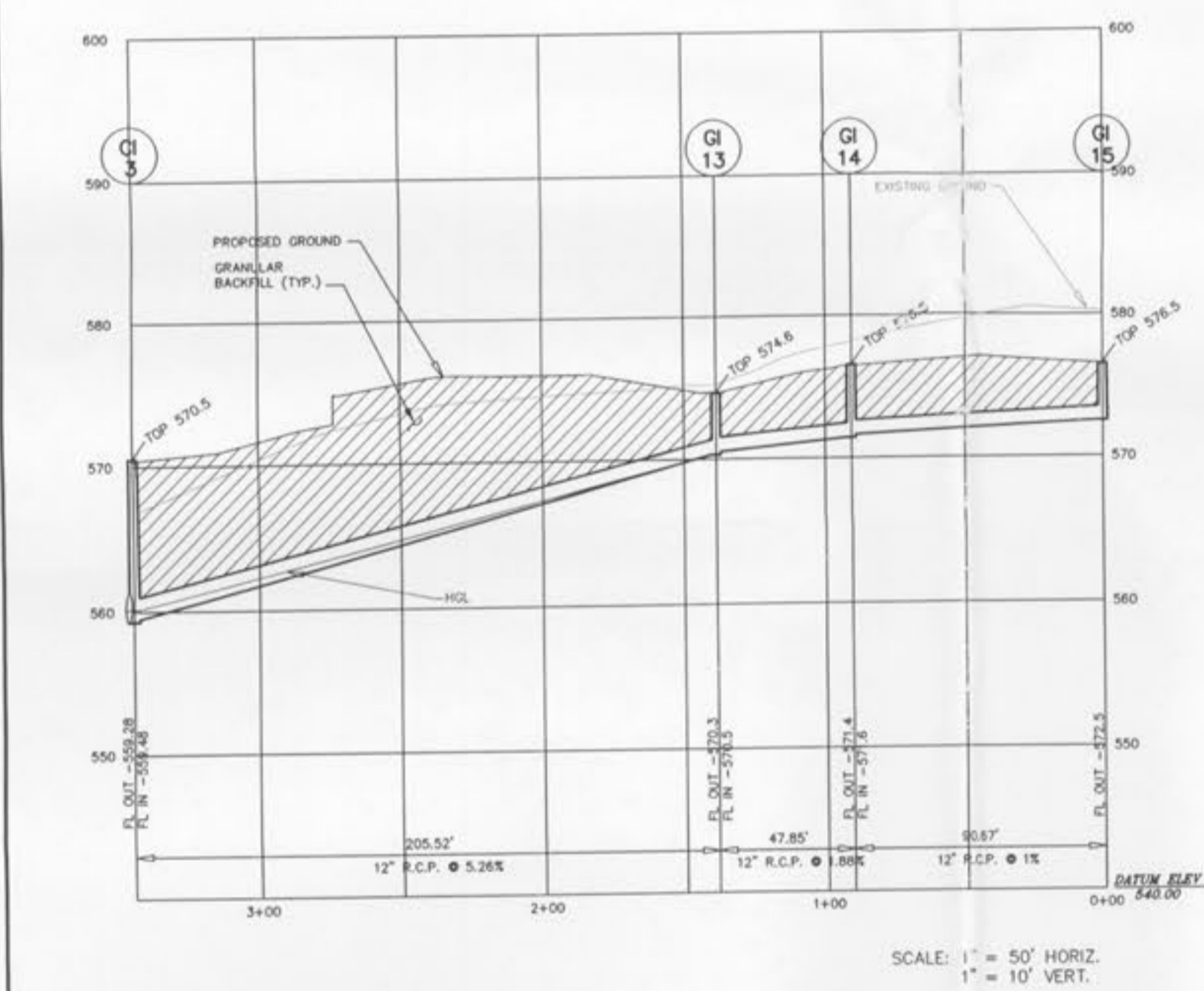
1. ALL SEWER INSTALLATION AND MATERIALS SHALL COMPLY WITH CITY OF O'FALLON STANDARDS.
2. BRICK SHALL NOT BE USED IN THE CONSTRUCTION OF SANITARY OR STORM SEWER STRUCTURES.
3. ALL SANITARY SEWER PIPES SHALL HAVE GASKETED O-RING TYPE COMPRESSION JOINTS PER THE CITY OF O'FALLON.
4. ALL SANITARY LATERALS AND SANITARY MAINS CROSSING UNDER ROADWAYS SHALL HAVE THE PROPER ROCK BACKFILL AND BE COMPACTED AS REQUIRED BY THE CITY OF O'FALLON.
5. ALL FILLED PLACES UNDER PROPOSED STORM AND SANITARY SEWER LINES AND/OR PAVED AREAS SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-180 COMPACTION TEST OR 95% OF THE MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99.
6. ALL FILLED PLACES IN PROPOSED ROADS SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-180 COMPACTION TEST OR 95% OF THE MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99. OPTIMUM MOISTURE CONTENT SHALL BE DETERMINED USING THE SAME TEST THAT WAS USED FOR COMPACTION. SOIL COMPACTION CURVES SHALL BE SUBMITTED TO THE CITY PRIOR TO THE PLACEMENT OF FILL. PROOF ROLLING MAY BE REQUIRED TO VERIFY SOIL STABILITY AT THE DISCRETION OF THE CITY. ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS.
7. CUT-OFF WALLS FOR FLARED END SECTIONS ARE TO BE 2 FEET DEEP UPSTREAM AND 3 FEET DEEP DOWNSTREAM. ALL FLARED END SECTIONS ARE TO BE CONCRETE.
8. PROPOSED STORM SEWERS SHALL COMPLY WITH ALL CITY, COUNTY & STATE STORMWATER ORDINANCES.
9. PROVIDE SILTATION CONTROL AROUND ALL STORM SEWER INLETS AS SHOWN ON THE SWPPP PLAN.
10. RIP-RAP SHOWN AT FLARED ENDS WILL BE EVALUATED IN THE FIELD AFTER INSTALLATION FOR EFFECTIVENESS AND FIELD MODIFIED, IF NECESSARY, TO REDUCE EROSION ON AND OFF SITE.
11. SANITARY SEWER LINE PLACEMENT SHALL BE A MINIMUM OF 10' FROM THE EDGE OF ANY BUILDING STRUCTURE AND MAY NEED TO BE INCREASED DEPENDING ON THE DEPTH OF THE LINE.
12. PROVIDE GRANULAR FILL AROUND STORM AND SANITARY SEWER LINES IN TRENCHES WITH 10' OF THE EDGE OF PAVEMENT CURB AND IN THE 1 TO 1 SHEAR PLANE OF THE ROAD.
13. SIX INCH SANITARY SEWER LATERALS ARE TO BE INSTALLED AT A MINIMUM SLOPE OF 2% (TYP.).
14. ALL STORM SEWERS ON/OFF SITE SHALL BE PRIVATELY MAINTAINED.



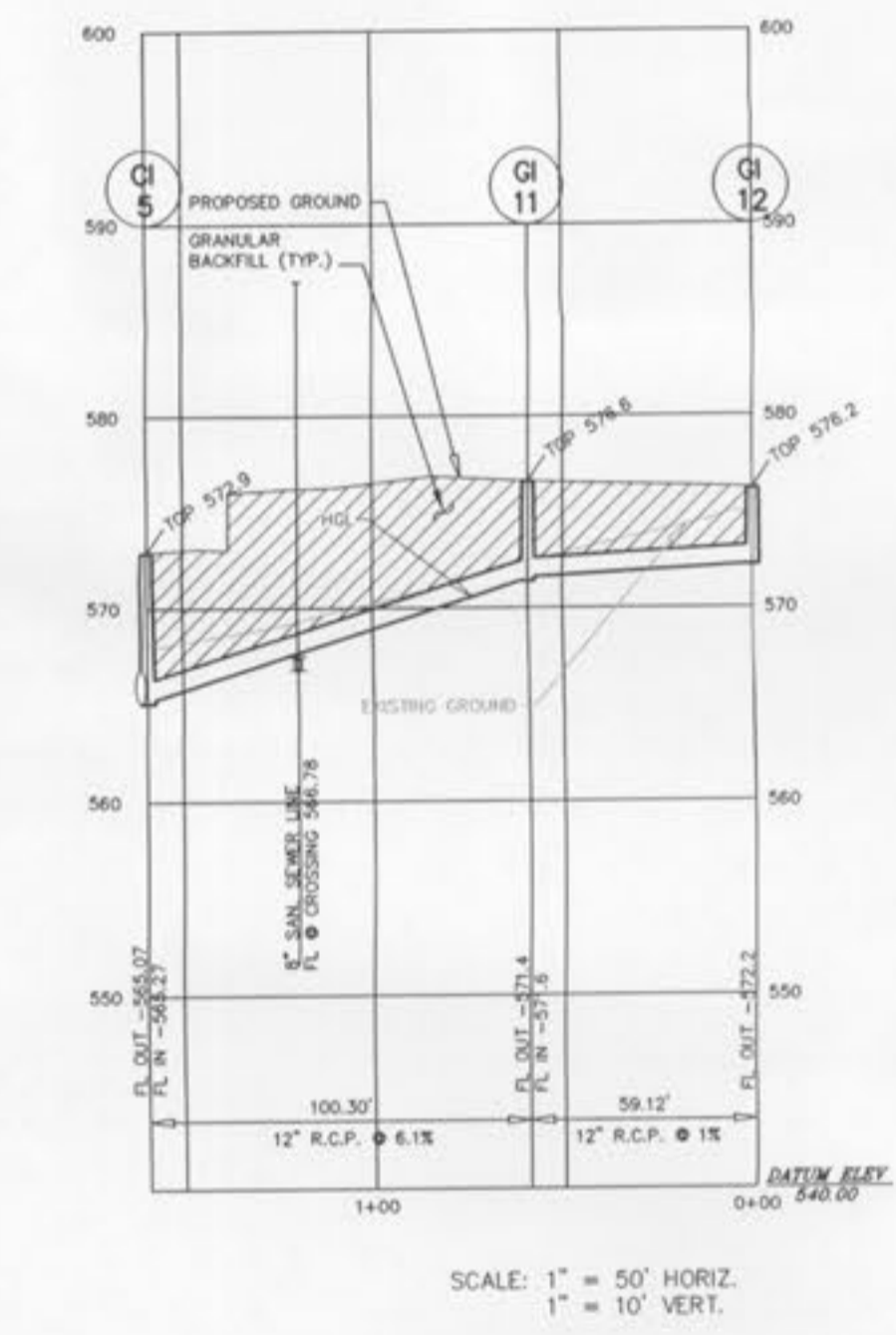
"PRIVATE" STORM SEWER PROFILE



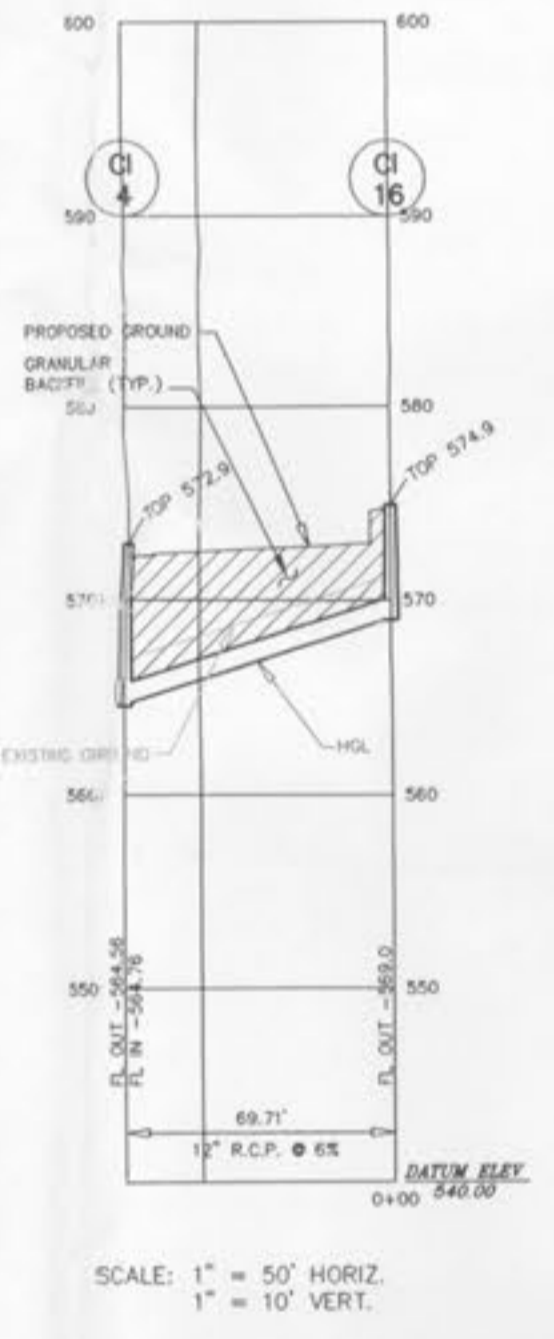
"PRIVATE" STORM SEWER PROFILE



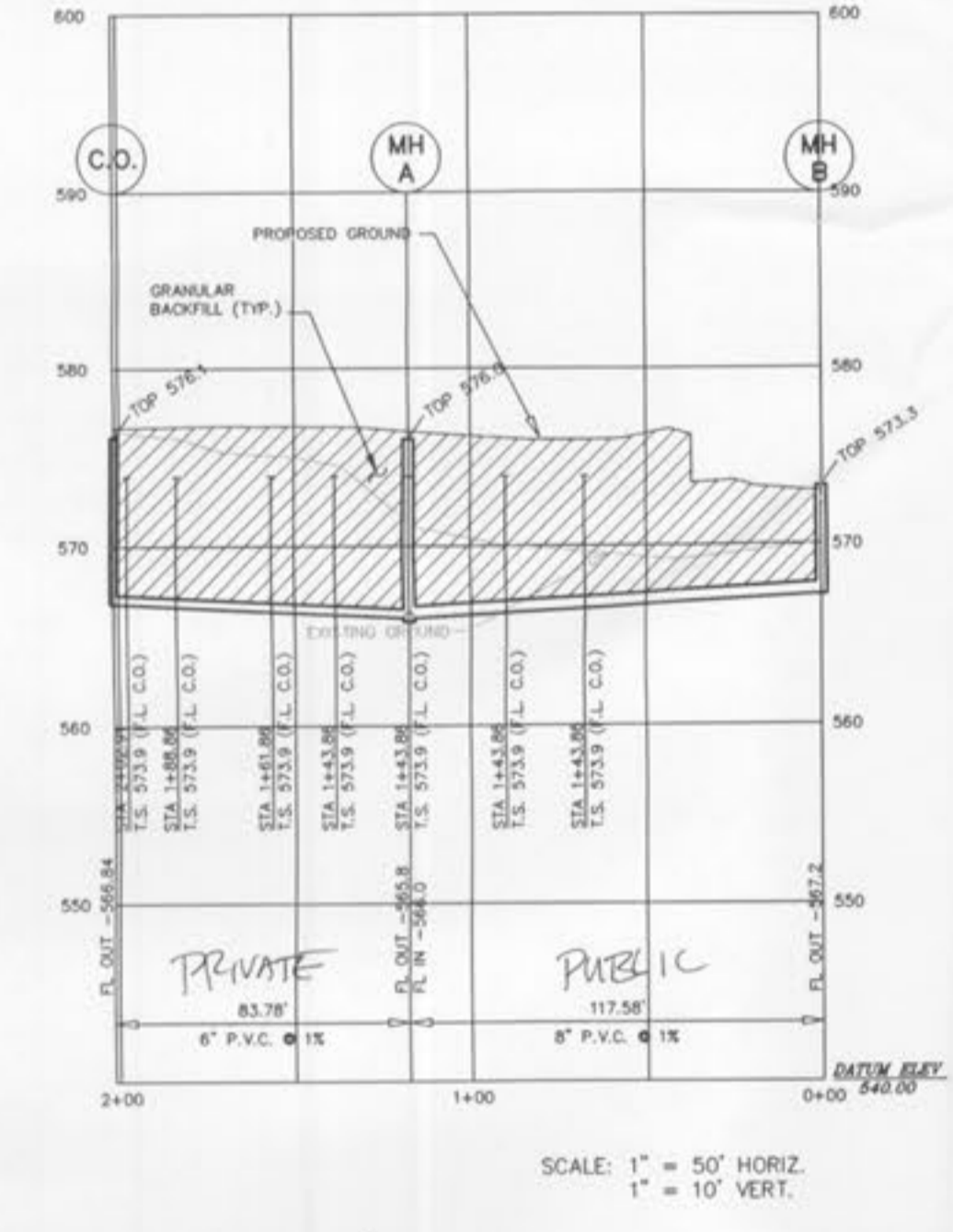
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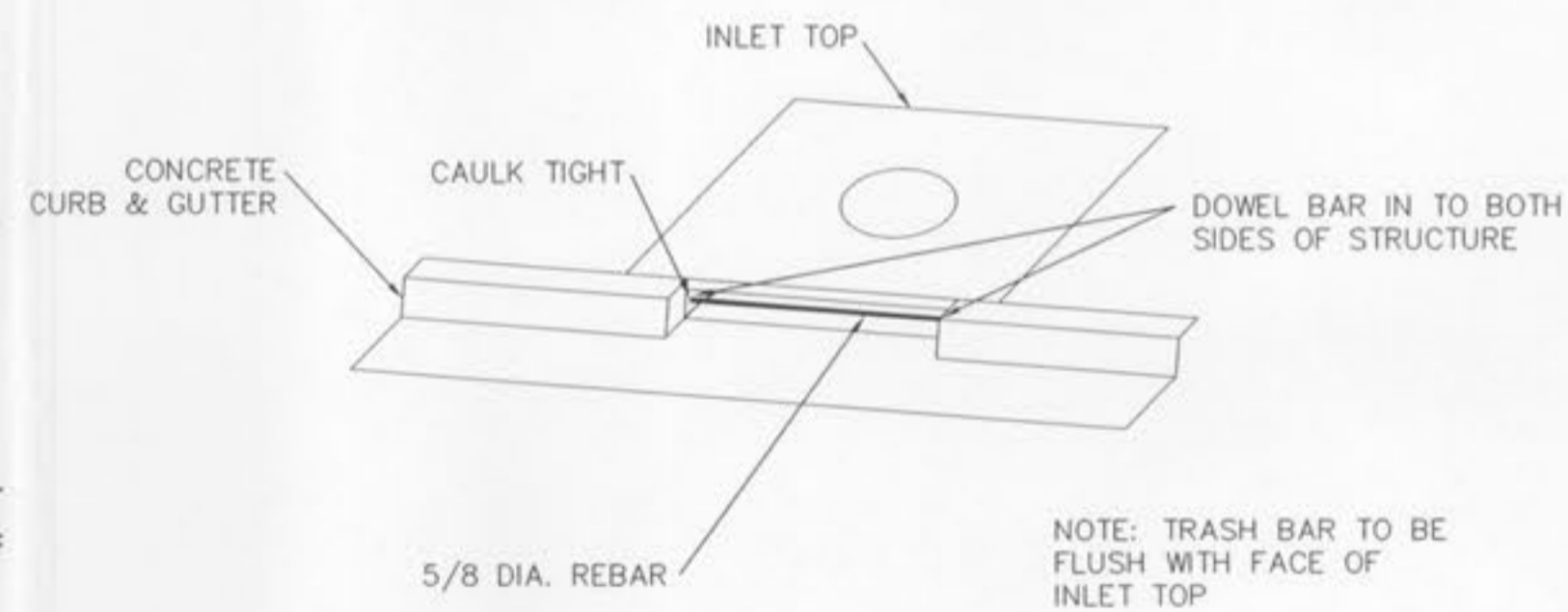
"PRIVATE" STORM SEWER PROFILE



"PRIVATE" STORM SEWER PROFILE



"PRIVATE" SANITARY SEWER PROFILE



TRASH BAR FOR CURB INLET DETAIL
NOT TO SCALE

Project: LAURA K, O'FALLON, MO
Project No.: 3138
Date: 11-Jul-05
Revised: 28-Aug-05

Post - Development Conditions

| Lower Structure | Upper Structure | Lower Flowline | Upper Flowline | Size (In.) | Length (ft.) | Slope (ft./ft.) | Q (cfs) | n | Sr (ft./ft.) | Lr (ft.) | Vfull (ft./sec.) | vhull (ft.) | Qcap (cfs) | % Cap. | Pipe Angle | Angle Multiplier | Length (ft.) | Lower Hydr. Elev. | Upper Hydr. Elev. |
|-----------------|-----------------|----------------|----------------|------------|--------------|-----------------|---------|-------|--------------|----------|------------------|-------------|------------|--------|------------|------------------|--------------|-------------------|-------------------|
| FE-1 | MH-2 | 555.73 | 557.73 | 24 | 200.29 | 0.0100 | 16.72 | 0.013 | 0.005483 | 1.0941 | 5.3221 | 0.4398 | 22.6224 | 74 | 0 | 0.00 | 0.00 | 557.73 | 558.82 |
| MH-2 | CI-3 | 557.93 | 559.28 | 24 | 135.09 | 0.0100 | 16.72 | 0.013 | 0.005483 | 0.7379 | 5.3221 | 0.4398 | 22.6224 | 74 | 4 | 0.05 | 0.62 | 558.85 | 559.82 |
| CI-3 | CI-4 | 559.48 | 564.56 | 18 | 106.63 | 0.0478 | 13.52 | 0.013 | 0.018573 | 1.7872 | 7.6525 | 0.9083 | 22.9178 | 59 | 64 | 0.57 | 0.62 | 560.14 | 561.94 |
| CI-4 | CI-5 | 564.76 | 565.07 | 21 | 30.92 | 0.0100 | 11.53 | 0.013 | 0.005585 | 0.0601 | 4.4422 | 0.3064 | 10.5043 | 75 | 15 | 0.18 | 0.06 | 562.36 | 562.42 |
| CI-5 | CI-6 | 565.27 | 565.38 | 18 | 10.77 | 0.0100 | 7.85 | 0.013 | 0.005373 | 0.4132 | 4.3573 | 0.2948 | 10.5043 | 73 | 43 | 0.45 | 0.13 | 562.55 | 563.02 |
| CI-6 | GI-7 | 565.58 | 566.35 | 18 | 76.90 | 0.0100 | 7.85 | 0.013 | 0.005373 | 0.4132 | 4.3573 | 0.2948 | 10.5043 | 73 | 18 | 0.21 | 0.06 | 563.09 | 563.57 |
| GI-7 | GI-8 | 566.55 | 568.56 | 12 | 51.47 | 0.0392 | 3.45 | 0.013 | 0.009377 | 0.4826 | 4.3927 | 0.2996 | 7.0540 | 49 | 39 | 0.42 | 0.06 | 563.63 | 564.21 |
| GI-8 | GI-9 | 568.76 | 569.98 | 12 | 122.07 | 0.0100 | 2.45 | 0.013 | 0.004729 | 0.5772 | 3.1194 | 0.1511 | 3.5628 | 89 | 39 | 0.42 | 0.06 | 563.63 | 564.21 |
| GI-9 | GI-10 | 568.55 | 567.79 | 12 | 124.97 | 0.0100 | 1.96 | 0.013 | 0.003026 | 0.3782 | 2.4955 | 0.0967 | 3.5628 | 55 | 78 | 0.64 | 0.06 | 563.09 | 563.46 |
| CI-6 | GI-11 | 565.27 | 571.39 | 12 | 100.3 | 0.0610 | 3.07 | 0.013 | 0.007435 | 0.7455 | 3.9114 | 0.2376 | 8.7995 | 35 | 75 | 0.8250 | 0.15 | 562.36 | 563.10 |
| GI-11 | GI-12 | 571.59 | 572.18 | 12 | 59.12 | 0.0100 | 2.94 | 0.013 | 0.006809 | 0.4026 | 3.7433 | 0.2176 | 3.5628 | 83 | 24 | 0.2820 | 0.06 | 563.16 | 563.56 |
| CI-3 | GI-13 | 559.48 | 570.29 | 12 | 205.52 | 0.0526 | 1.897 | 0.013 | 0.002835 | 0.5826 | 2.4153 | 0.0906 | 8.1712 | 23 | 38 | 0.4100 | 0.04 | 560.14 | 560.72 |
| GI-13 | GI-14 | 570.49 | 571.39 | 12 | 47.85 | 0.0188 | 1.462 | 0.013 | 0.001894 | 0.0806 | 1.9616 | 0.0538 | 4.8851 | 30 | 62 | 0.5600 | 0.03 | 560.75 | 560.83 |
| GI-14 | GI-15 | 571.59 | 572.50 | 12 | 90.67 | 0.0100 | 0.95 | 0.013 | 0.000711 | 0.0645 | 1.2096 | 0.0227 | 3.5628 | 27 | 45 | 0.47 | 0.01 | 560.84 | 560.91 |
| CI-4 | GI-16 | 564.76 | 569.00 | 12 | 69.71 | 0.0608 | 1.4 | 0.013 | 0.001544 | 0.1076 | 1.7825 | 0.0493 | 8.7850 | 16 | 112 | 0.7 | 0.03 | 561.99 | 562.10 |

NOTE: MARKINGS, AS SHOWN IN THE TABLE BELOW, SHALL BE ADDED TO ALL STORM SEWER INLETS PER THE CITY OF O'FALLON. ALSO NOTE THAT "PEEL AND STICK" ADHESIVE PADS WILL NOT BE ALLOWED.

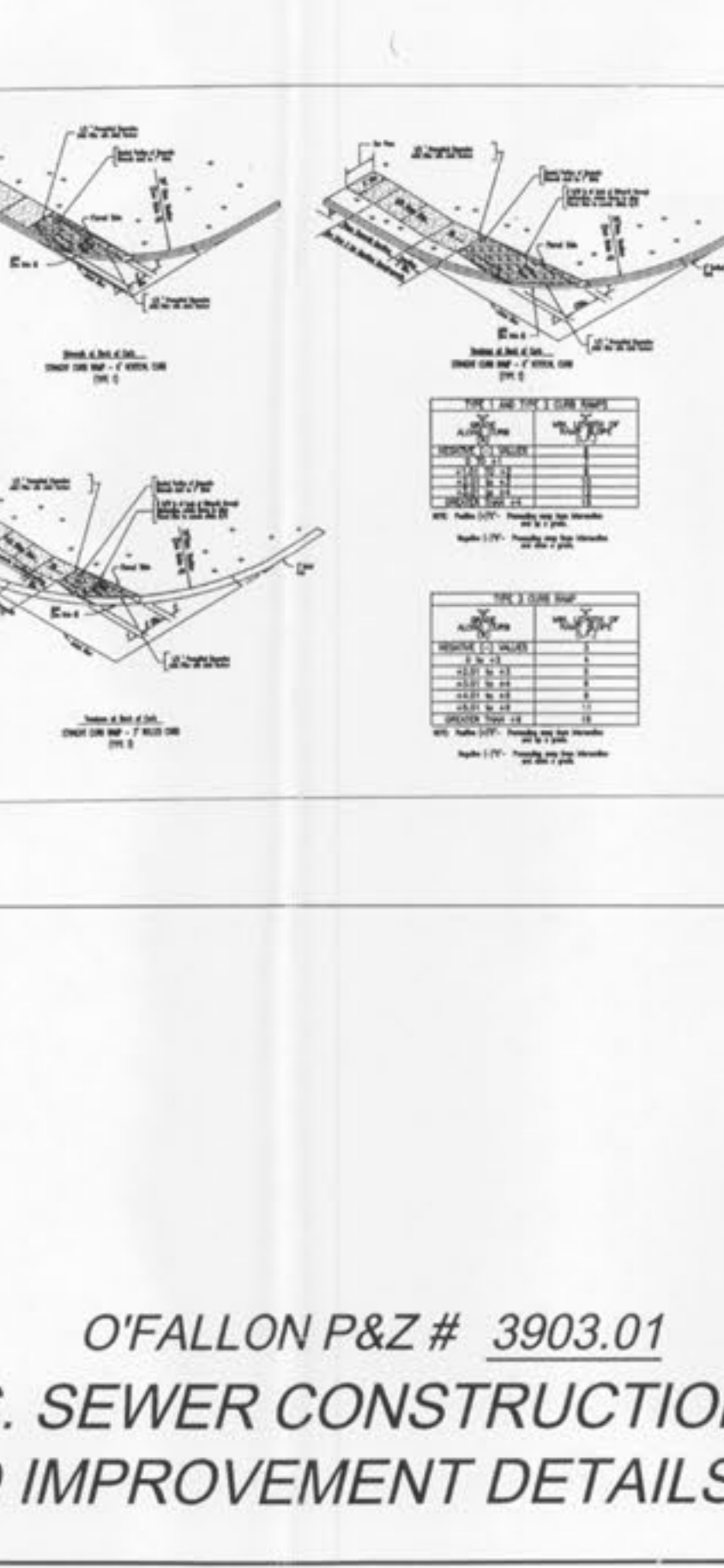
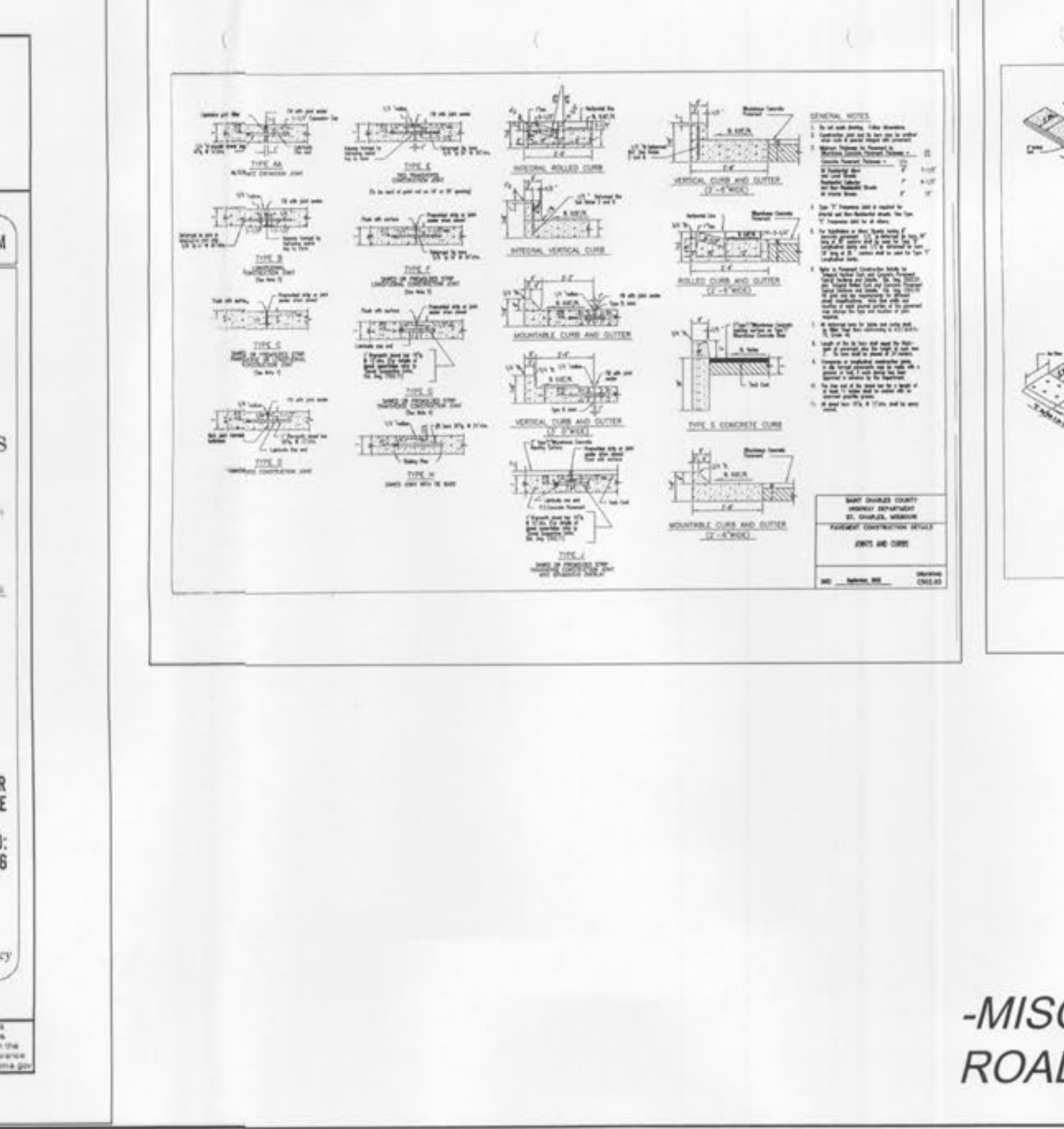
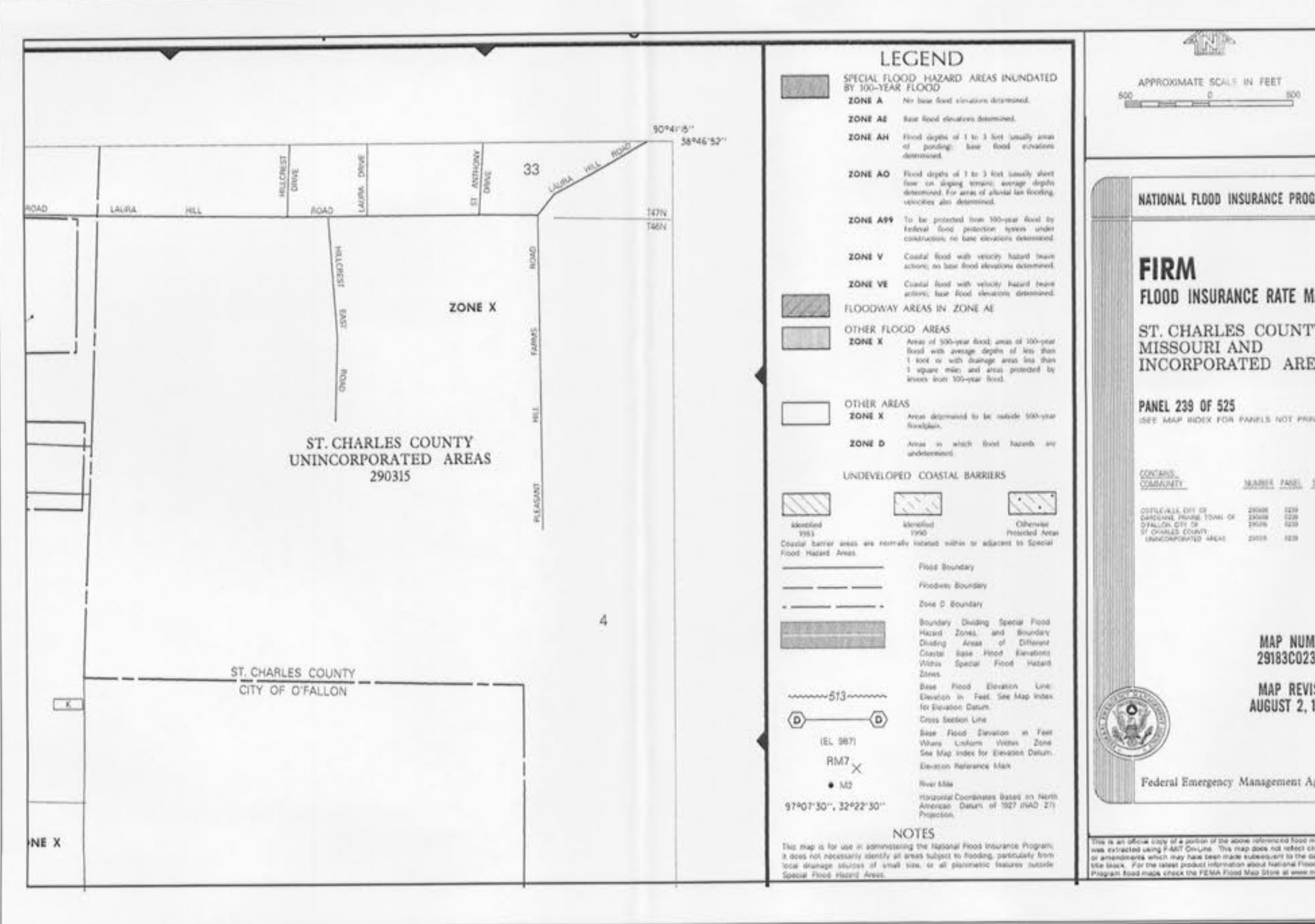
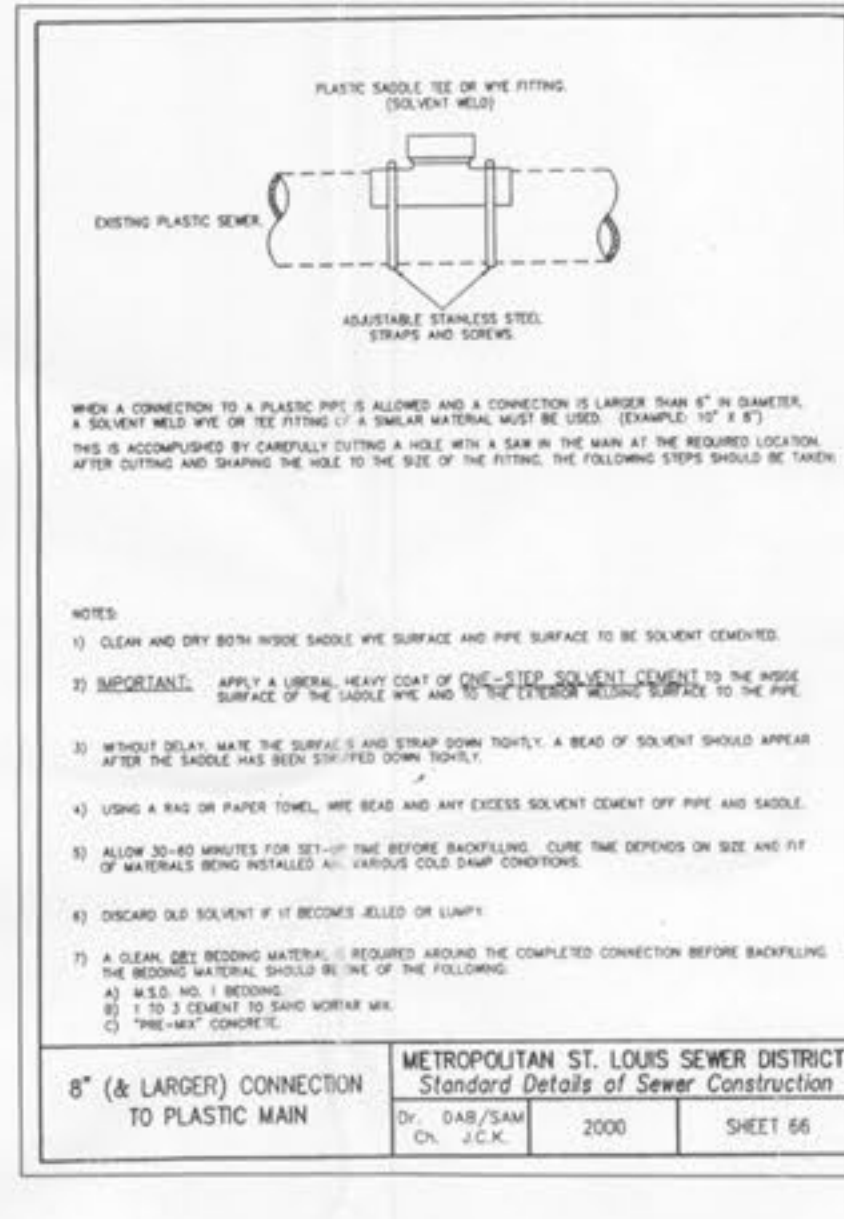
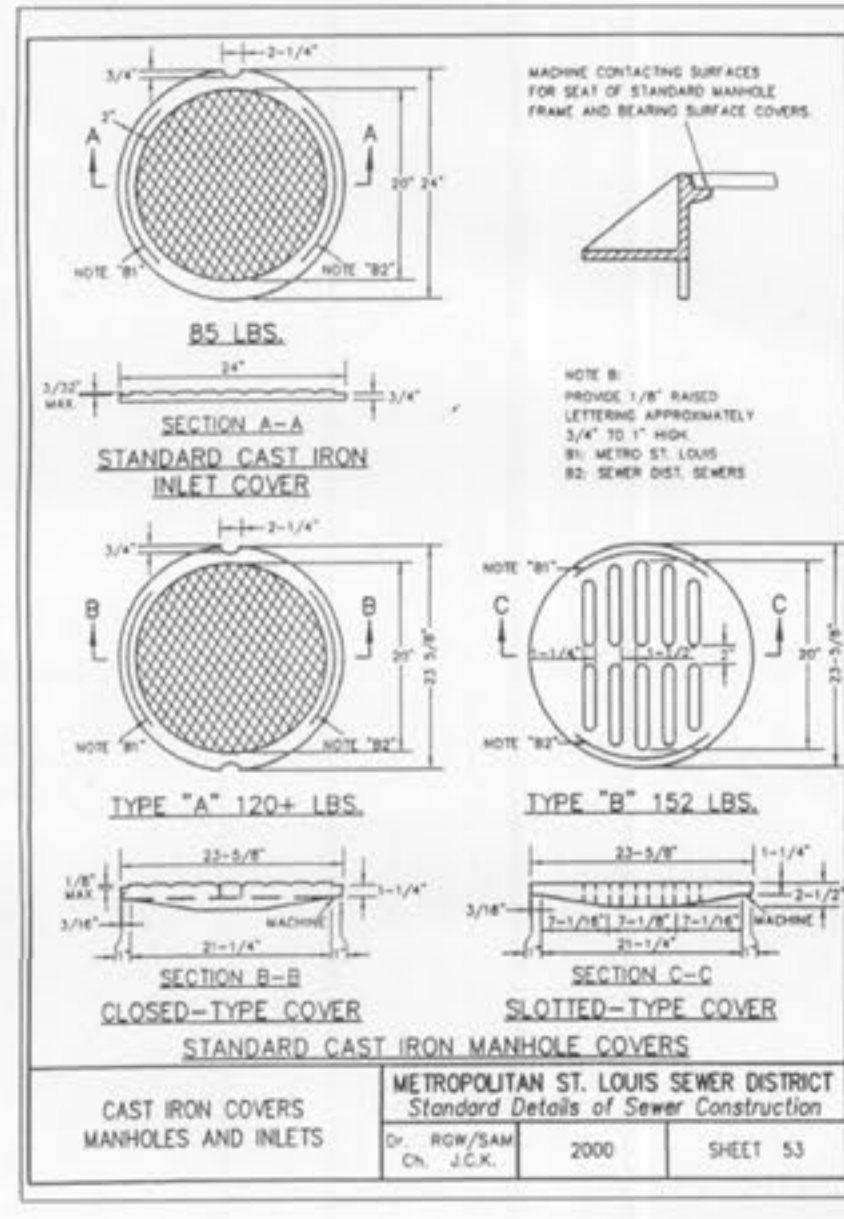
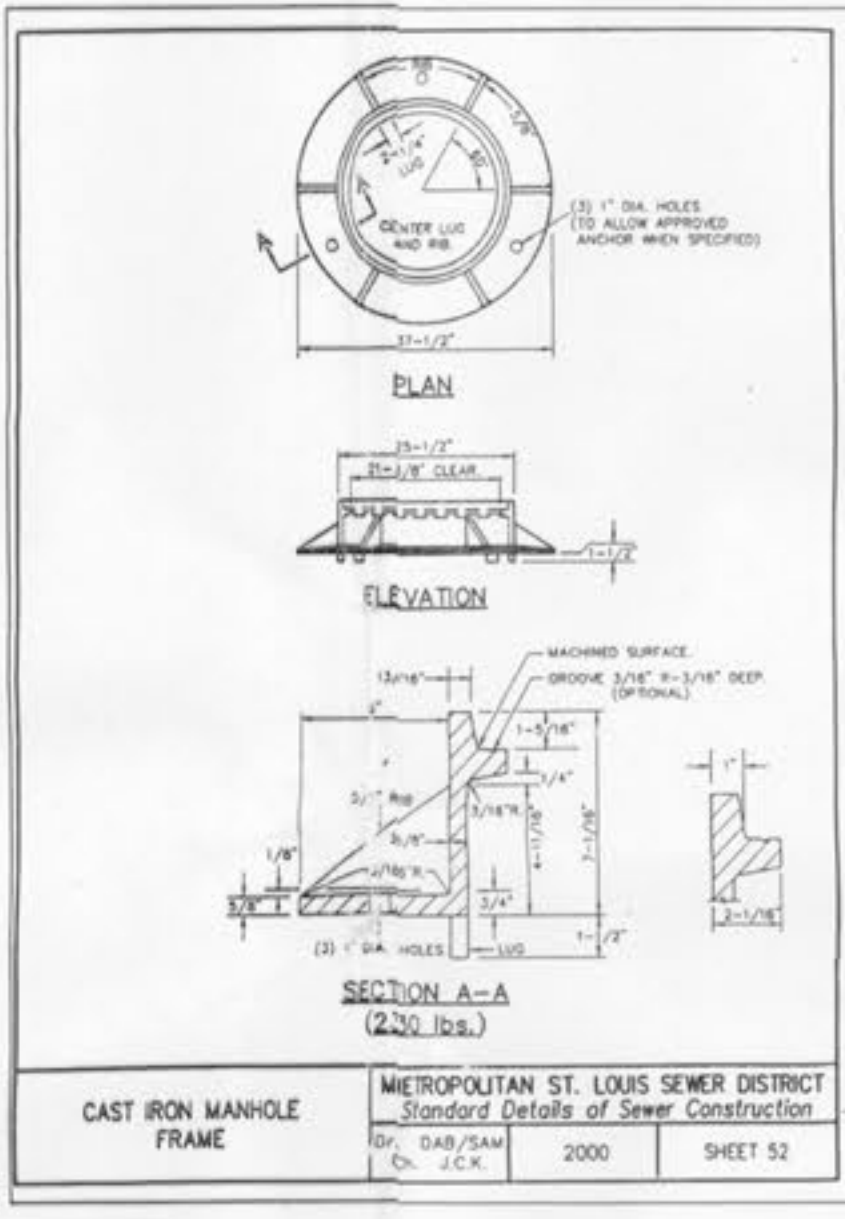
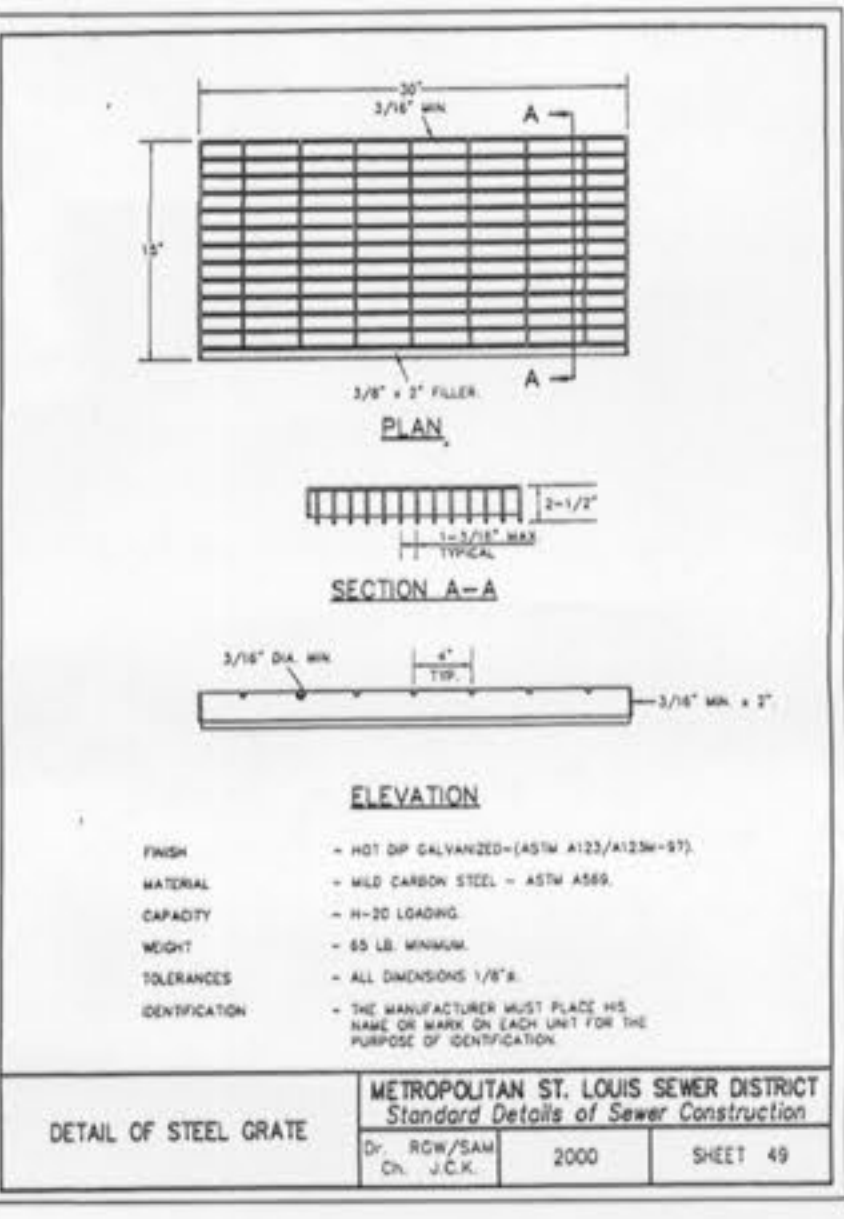
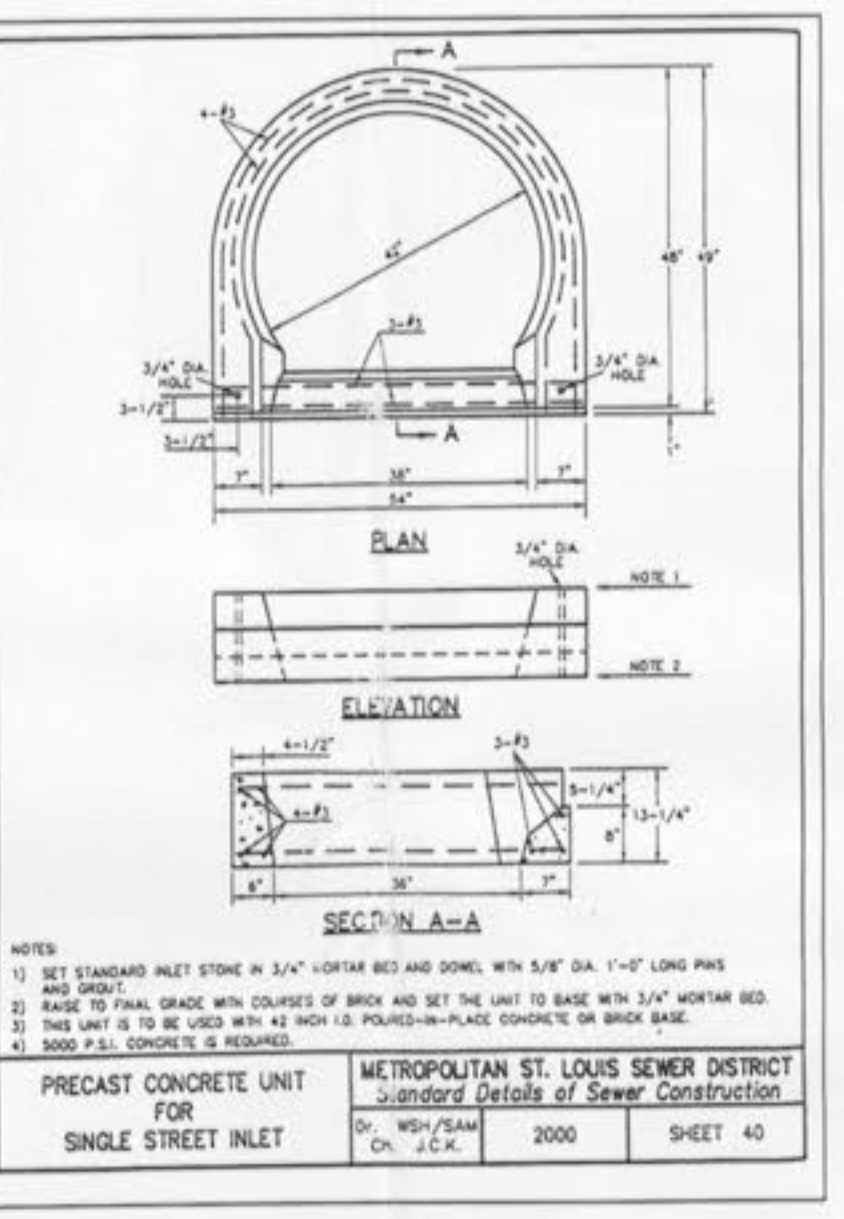
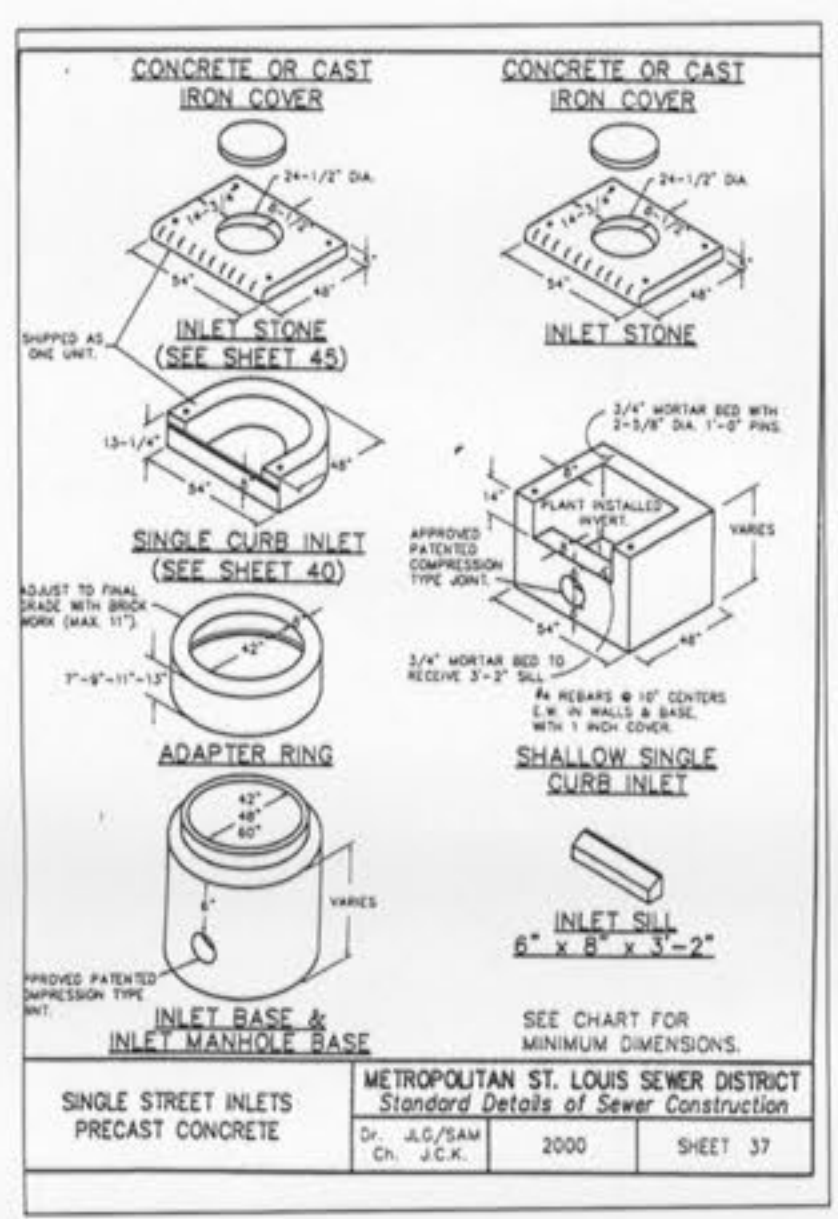
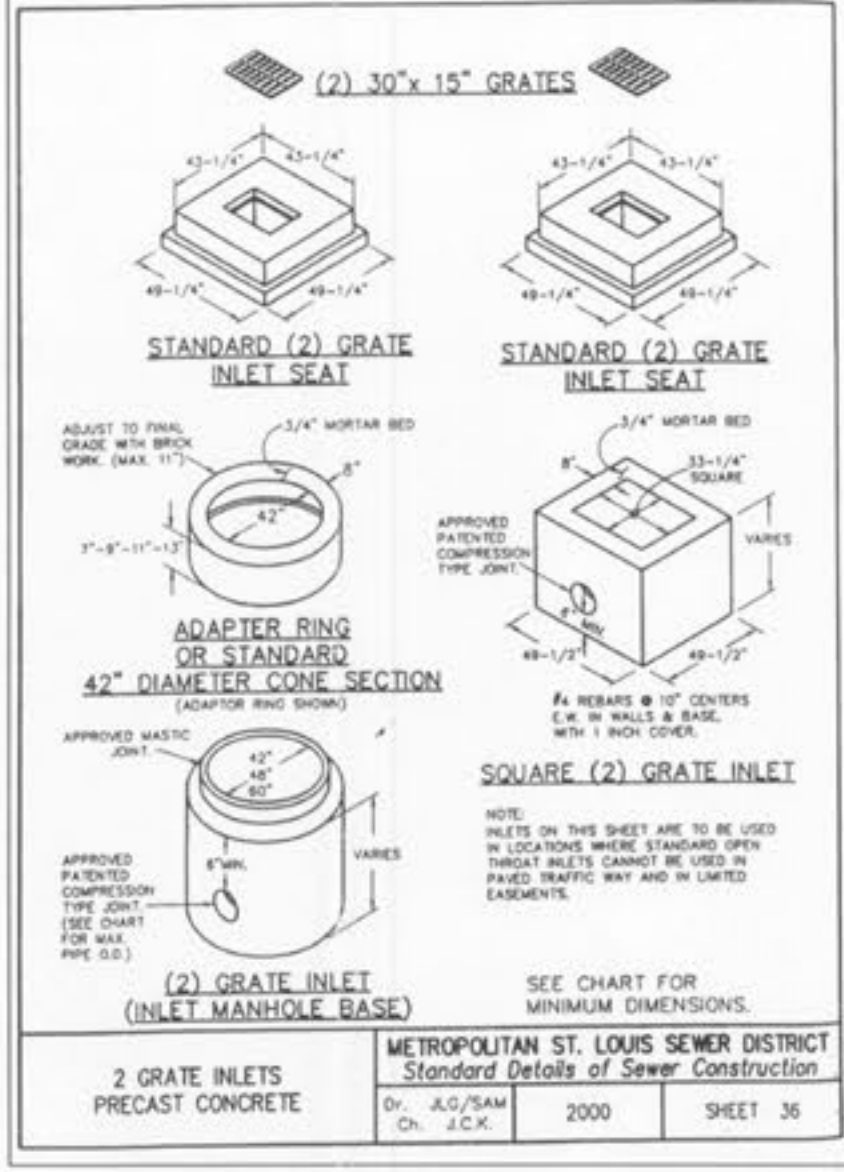
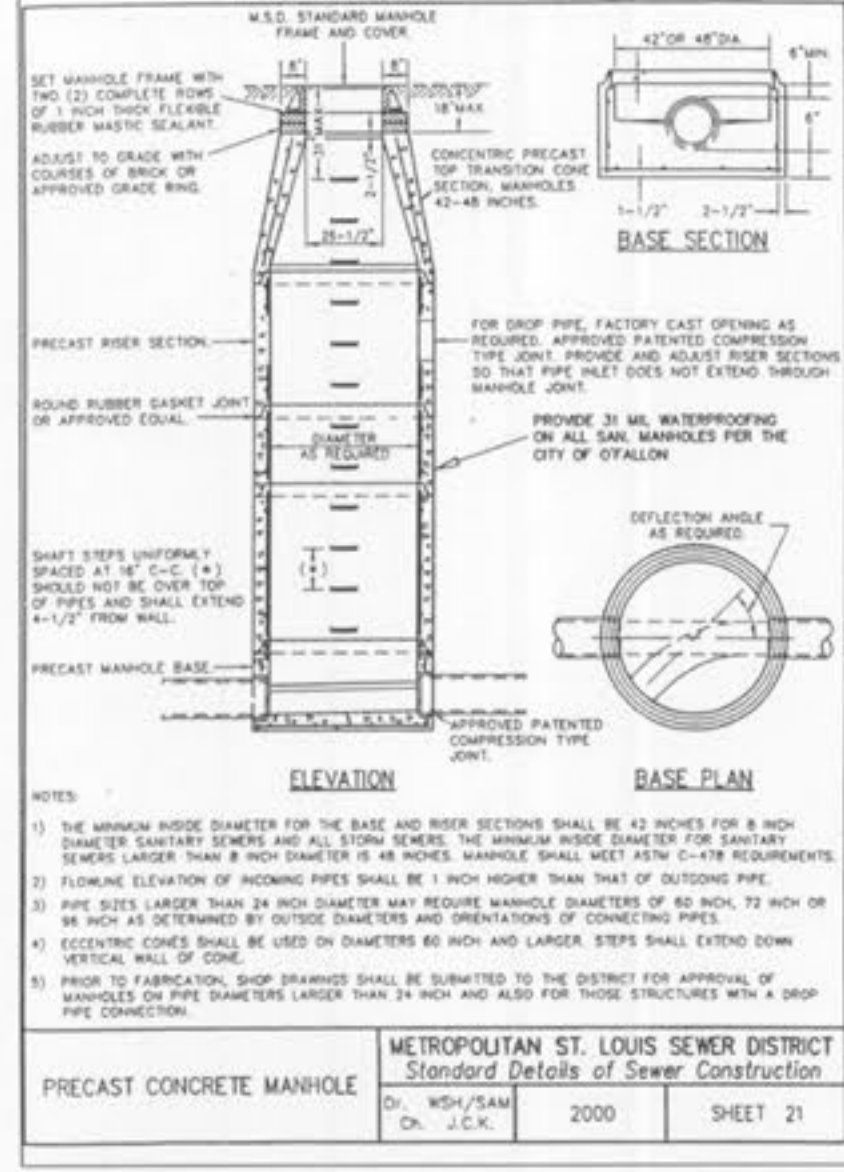
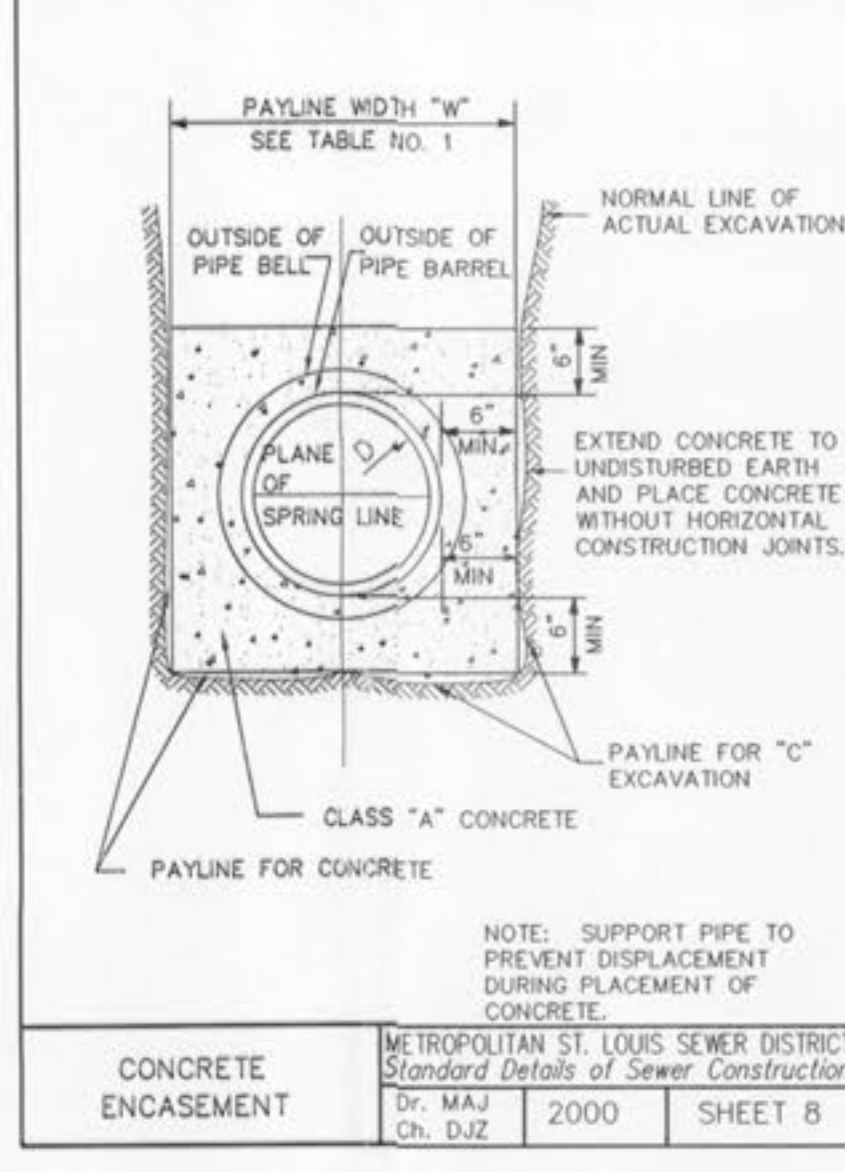
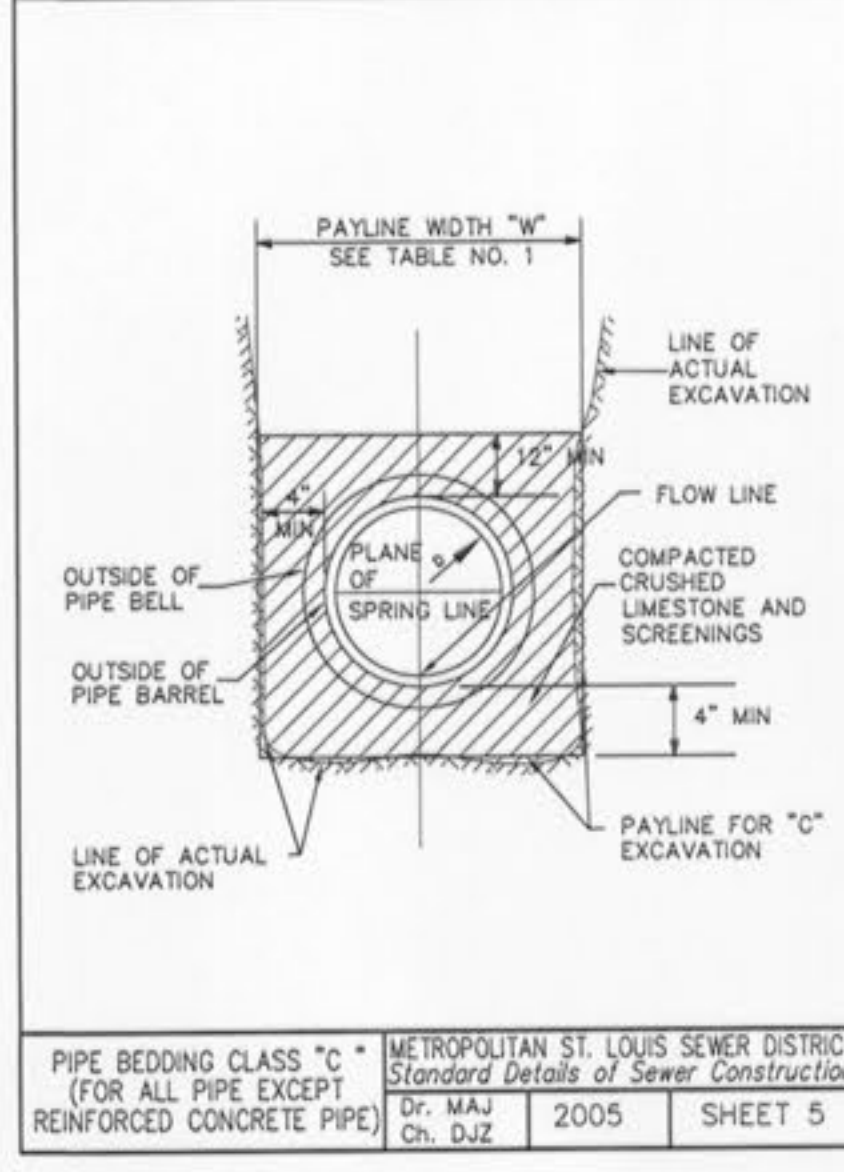
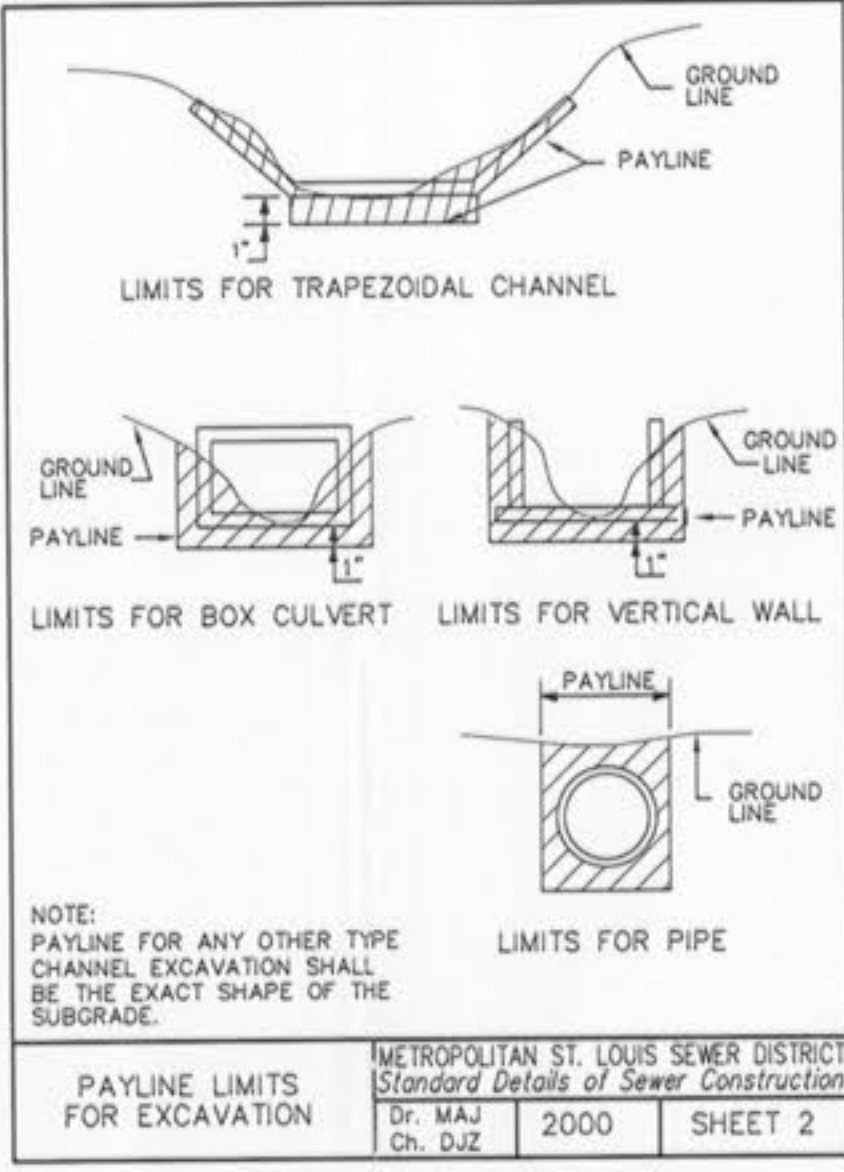
| MANUFACTURER | SIZE | ADHESIVE | STYLE | MESSAGE (PART #) | WEBSITE |
|-------------------------|--------|----------|-------------|--|--------------------------|
| ACP INTERNATIONAL | 3 7/8" | EPOXY | CRYSTAL CAP | NO DUMPING DRAINS TO WATERWAYS (SD-W-Cc) | WWW.ACPINTERNATIONAL.COM |
| DAS MANUFACTURING, INC. | 4" | EPOXY | STND. STYLE | NO DUMPING DRAINS TO STREAMS (#SDS) | WWW.DASMANUFACTURING.COM |

O'FALLON P&Z # 3903.01
-SEWER PROFILES-

ENGINEERS' CERTIFICATION:
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ZAVRADINOS PROFESSIONAL SERVICES, INC.
JEREMY B. CHILTON
NUMBER
DATE: 10/21/2005
JEREMY B. CHILTON # 2005000963 DATE

| ROUND PIPE | | | | HORIZONTAL ELLIPTICAL PIPE | | | |
|----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|------------------------------------|-------------------------------------|-------------------------------------|---------------------------------|
| INSIDE DIAMETER OF PIPE (INCHES) | W/ PAYLINE WIDTH OF TRENCH (INCHES) | H/ PAYLINE WIDTH OF TRENCH (INCHES) | PAY-QUANTITIES OF CONCRETE (CY) | INSIDE DIMENSIONS OF PIPE (INCHES) | W/ PAYLINE WIDTH OF TRENCH (INCHES) | H/ PAYLINE WIDTH OF TRENCH (INCHES) | PAY-QUANTITIES OF CONCRETE (CY) |
| 4 | 30 | 2.50 | 3.59 | | | | |
| 6 | 30 | 2.50 | 3.87 | | | | |
| 8 | 30 | 2.50 | 4.68 | | | | |
| 12 | 36 | 2.50 | 4.25 | | | | |
| 15 | 36 | 3.00 | 5.53 | | | | |
| 18 | 36 | 3.00 | 5.77 | 14 x 23 | 41 | 3.42 | 5.94 |
| 21 | 36 | 3.25 | 6.41 | | | | |
| 24 | 42 | 3.50 | 7.28 | 15 x 30 | 49 | 4.08 | 7.63 |
| 27 | 42 | 3.75 | 8.18 | 22 x 34 | 53 | 4.42 | 8.61 |
| 30 | 42 | 4.00 | 9.30 | 24 x 38 | 58 | 4.83 | 9.70 |
| 36 | 48 | 4.25 | 10.53 | 27 x 42 | 62 | 5.17 | 10.71 |
| 36 | 48 | 4.50 | 11.43 | 29 x 43 | 68 | 5.50 | 11.52 |
| 39 | 48 | 4.75 | 12.49 | 32 x 48 | 71 | 5.92 | 12.14 |
| 42 | 48 | 5.00 | 13.38 | 34 x 53 | 75 | 6.25 | 14.05 |
| 48 | 54 | 5.25 | 15.67 | 36 x 60 | 83 | 6.87 | 16.19 |
| 54 | 54 | 5.50 | 16.33 | 43 x 66 | 92 | 7.67 | 18.60 |
| 60 | 60 | 5.75 | 18.29 | 48 x 78 | 101 | 8.42 | 21.39 |
| 66 | 66 | 6.00 | 20.45 | 53 x 83 | 109 | 9.08 | 24.35 |
| 72 | 72 | 6.25 | 22.37 | 58 x 91 | 118 | 9.83 | 27.43 |
| 78 | 78 | 6.50 | 24.39 | 63 x 96 | 126 | 10.50 | 30.50 |
| 84 | 84 | 6.75 | 26.57 | 68 x 106 | 135 | 11.25 | 33.81 |
| 90 | 90 | 7.00 | 28.90 | 72 x 113 | 143 | 11.92 | 36.89 |
| 96 | 96 | 7.25 | 31.37 | 77 x 121 | 152 | 12.67 | 40.89 |
| 102 | 102 | 7.50 | 33.99 | 82 x 128 | 160 | 13.33 | 44.43 |
| 108 | 108 | 7.75 | 36.76 | 87 x 136 | 168 | 14.00 | 47.79 |
| 114 | 114 | 8.00 | 39.68 | 92 x 143 | 176 | 14.67 | 51.20 |
| 120 | 120 | 8.25 | 42.73 | 97 x 151 | 185 | 15.42 | 54.60 |
| 126 | 126 | 8.50 | 45.92 | 102 x 158 | 193 | 16.17 | 58.09 |
| 132 | 132 | 8.75 | 49.25 | 107 x 166 | 202 | 16.93 | 61.48 |
| 138 | 138 | 9.00 | 52.71 | 112 x 174 | 210 | 17.67 | 64.87 |
| 144 | 144 | 9.25 | 56.30 | 117 x 182 | 218 | 18.42 | 68.26 |



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ZAVRADINOS PROFESSIONAL SERVICES, INC.

JEREMY B. CHILTON

REGISTERED PROFESSIONAL ENGINEER

STATE OF MISSOURI

NUMBER 2005000963

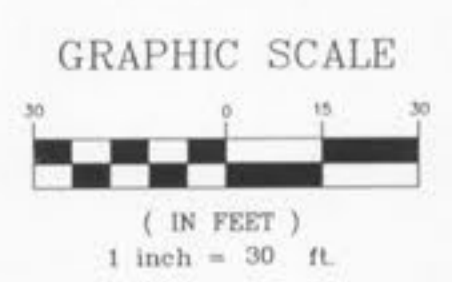
DATE

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8

O'FALLON P&Z # 3903.01

-MISC. SEWER CONSTRUCTION & ROAD IMPROVEMENT DETAILS-

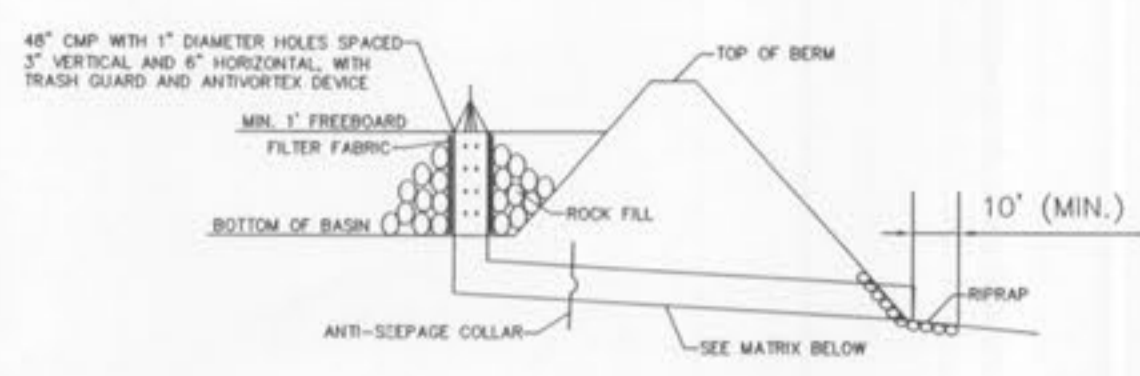


| BASIN NUMBER | TRIBUTARY AREA | P.I. | Q | PIPE SIZE | MINIMUM PIPE SLOPE | Q | VELOCITY | BASIN DEPTH | REMARKS |
|--------------|----------------|--------------|----------|-----------|--------------------|----------|----------|-------------|--------------------|
| 1 | 3.66 Acres | 1.7 cfs/Acre | 6.22 cfs | 21" CMP | 1.00% | 6.58 cfs | 2.47 fps | 3.5 | SILT TRAP (53x82') |

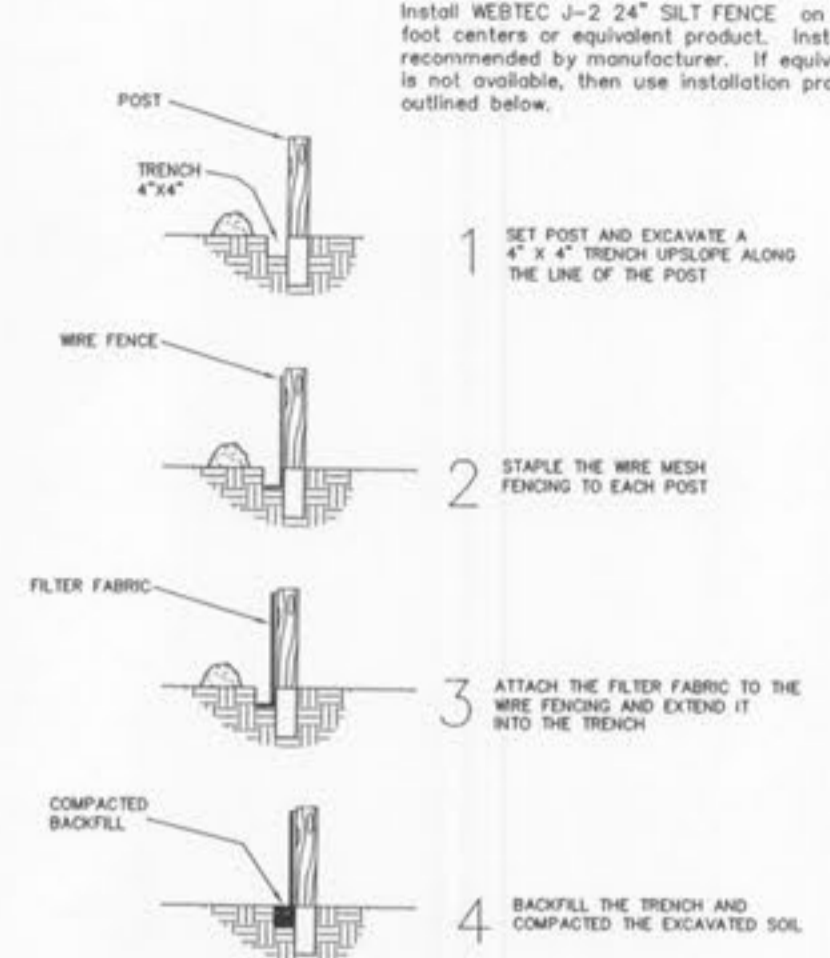
| BASIN NUMBER | TRIBUTARY AREA | TRIBUTARY VOLUME | BASIN BOTTOM AREA | STORAGE SURFACE AREA | STORAGE DEPTH | STORAGE VOLUME | BASIN DEPTH | FREEBOARD | REMARKS |
|--------------|----------------|------------------|-------------------|----------------------|---------------|----------------|-------------|-----------|----------------------|
| 1 | 3.66 Acres | 6,588 C.F. | 1,964 S.F. | 3,587 S.F. | 2.5 | 6,837 C.F. | ±0.5' | 1' | TEMPORARY SILT BASIN |

- NOTES:
- SILT ACCUMULATION ("TRIBUTARY VOLUME") HAS BEEN CALCULATED AT THE RATE OF 1800 CUBIC FEET PER ACRE OF TRIBUTARY AREA.
 - STORAGE VOLUMES HAVE BEEN CALCULATED BY THE EQUATION $V = 1/3(A_1 + A_2 + A_1 \times A_2)^{0.5} \times H$, BASED UPON CONTOUR INFORMATION.
 - ALL CHANNELS AND SILT TRAP SIDE SLOPES ARE 3 HORIZONTAL TO 1 VERTICAL.
 - ALL SILT CONTAINMENTS PROVIDE A MINIMUM OF 1' FREEBOARD.

TEMPORARY SILT BASIN CALCS.



TEMPORARY SILT BASIN DETAIL
NOT TO SCALE



SYNTHETIC FILTER BARRIER SILTATION CONTROL

NOT TO SCALE

GENERAL NOTES:

- SOIL:
- Soil preparation and revegetation shall consist of seeding fescue between March 1 and June 1 at a rate of 30 pounds per acre. See Appendix A of the Model Sediment and Erosion Control Regulations for Urban Development.
 - Property Owner/Developer assumes full responsibility for performance of grading operation and assurance that all properties and City, County and State roads will be adequately protected.
 - If siltation control devices are destroyed by heavy rains, vandalism, etc., they are to be replaced immediately by Contractor.
 - 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 or during the next seeding period after grading has been completed.
 - When grading operations are completed or suspended for more than 14 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 Designated Official's recommendation.
 - Any wells and/or springs which may exist on this property should be located and treated in a manner acceptable to the local governing authority.
 - All existing trash, debris and broken concrete pieces on site must be removed and legally disposed of off site.
 - Debris material from any existing on site building or structure which is scheduled to be razed for this development must be legally disposed of off site.
 - Soft soils in the bottom and banks of 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 public right-of-way locations or on any storm sewer location.
 - The fill material shall be placed as directed by the Geotechnical Engineer.

SILTATION CONTROL:

- Siltation control shall consist of temporary berms and swales to divert storm water runoff to a natural discharge point (see Grading Plan for location), at which point there shall be a siltation fence (see details, this sheet). In areas where a berm and swale are not feasible, a single row of siltation fence shall be placed end to end to protect adjacent property and rights-of-way. This shall be the responsibility of the Grading Contractor or Developer.
- Upon completion of storm sewers, if any, siltation devices shall be placed on all sides of inlet structures to keep silt out of storm sewer. This shall be the responsibility of the Sewer Contractor or the Developer. All siltation fences shall be securely anchored and properly maintained until all disturbed areas are paved or vegetation is established.
- Temporary siltation control measures shall be maintained until vegetative cover is established at a sufficient density to provide erosion control on the site.
- Erosion control shall not be limited to what is shown on the plan. Whatever means necessary shall be taken to prevent siltation and erosion from entering natural streams and adjacent roadways, properties, and ditches. All erosion control systems shall be inspected and necessary corrections made within 24 hours of any rainstorm resulting in one-half inch or more.

PERMANENT:

| | |
|-------------------|----------------------------------|
| TALL FESCUE | - 30LBS./AC. |
| SMOOTH BROME | - 20 LBS./AC. |
| COMBINED - FESCUE | 15 LBS./AC. AND BROME 10LBS./AC. |

TEMPORARY:

| | |
|--------------|--|
| WHEAT OR RYE | - 150 LBS./AC. (3.5 LBS./1,000 SQ. FT.) |
| OATS | - 120 LBS./AC. (2.75 LBS./1,000 SQ. FT.) |

SEEDING PERIODS:

| | |
|-----------------|--------------------------|
| FESCUE OR BROME | MARCH 1 TO JUNE 1 |
| | AUGUST 1 TO OCTOBER 1 |
| WHEAT OR RYE | MARCH 15 TO NOVEMBER 15 |
| OATS | MARCH 15 TO SEPTEMBER 15 |

MULCH RATES:

| |
|--|
| 100 LBS./1,000 SQ. FT. (4356 LBS./AC.) |
|--|

FERTILIZER RATES:

| | |
|-----------|-------------------|
| NITROGEN | 30 LBS./AC. |
| PHOSPHATE | 30 LBS./AC. |
| POTASSIUM | 30 LBS./AC. |
| LIME | 600 LBS./AC. ENM* |

*ENM = EFFECTIVE NEUTRALIZING MATERIAL PER STATE EVALUATION OF QUARRIED ROCK.

VEGETATIVE ESTABLISHMENT

- GENERAL:
- | | |
|---------------|--------------------------|
| SEEDING RATE | 30# TALL FESCUE PER ACRE |
| MULCHING RATE | 100# PER 1,000 SQ. FT. |
| FERTILIZER | 30#/ACRE NITROGEN |
| | 30#/ACRE PHOSPHATE |
| | 30#/ACRE POTASSIUM |
| | 600#/ACRE ENM |
- LIME
- WHEN GRADING OPERATION IS COMPLETE, THE SITE WILL BE SEEDED, FERTILIZED, LIMED, MULCHED AND TACKED AS PER ABOVE RATE.
 - WHEN GRADING OPERATIONS ARE CEASED FOR 14 DAYS OR MORE, ALL DISTURBED AREAS WILL BE SEEDED TO WHEAT AT THE RATE OF 90# PER ACRE.
- (FOR PROJECTS WITH BASINS, EROSION ISSUES OR STREAMS)
- DIVERSION AND SEDIMENT DAM: UPON COMPLETION OF THE DAM AND DIVERSION, THEY WILL BE SEEDED, FERTILIZED, LIMED, MULCHED AND TACKED AND WHEAT WILL BE SOWN AT THE RATE OF 60# PER ACRE.
 - WATERWAY: A GEOTEXTILE STRAW NETTING WILL LINE THE BOTTOM AND SIDESLOPES OF THE WATERWAY. SEEDED WILL BE ACCORDING TO RATES DESCRIBED UNDER THE "GENERAL" HEADING.
 - VEGETATIVE FILTER: REED CANARY GRASS WILL BE SEEDED FOR A FILTER ALONG THE WATERLINE OF THE POND. THE STRIP WILL BE 50 FEET WIDE AT 24# PER ACRE.
 - SOD IS TO BE PROVIDED IN THE HIGHWAY K RIGHT-OF-WAY PER THE CITY OF O'FALLON.

SEEDING NOTES

Missouri One Call System, Inc.
Call Before You Dig!
1-800-DIG-RITE
(1-800-344-7483)

McDOT

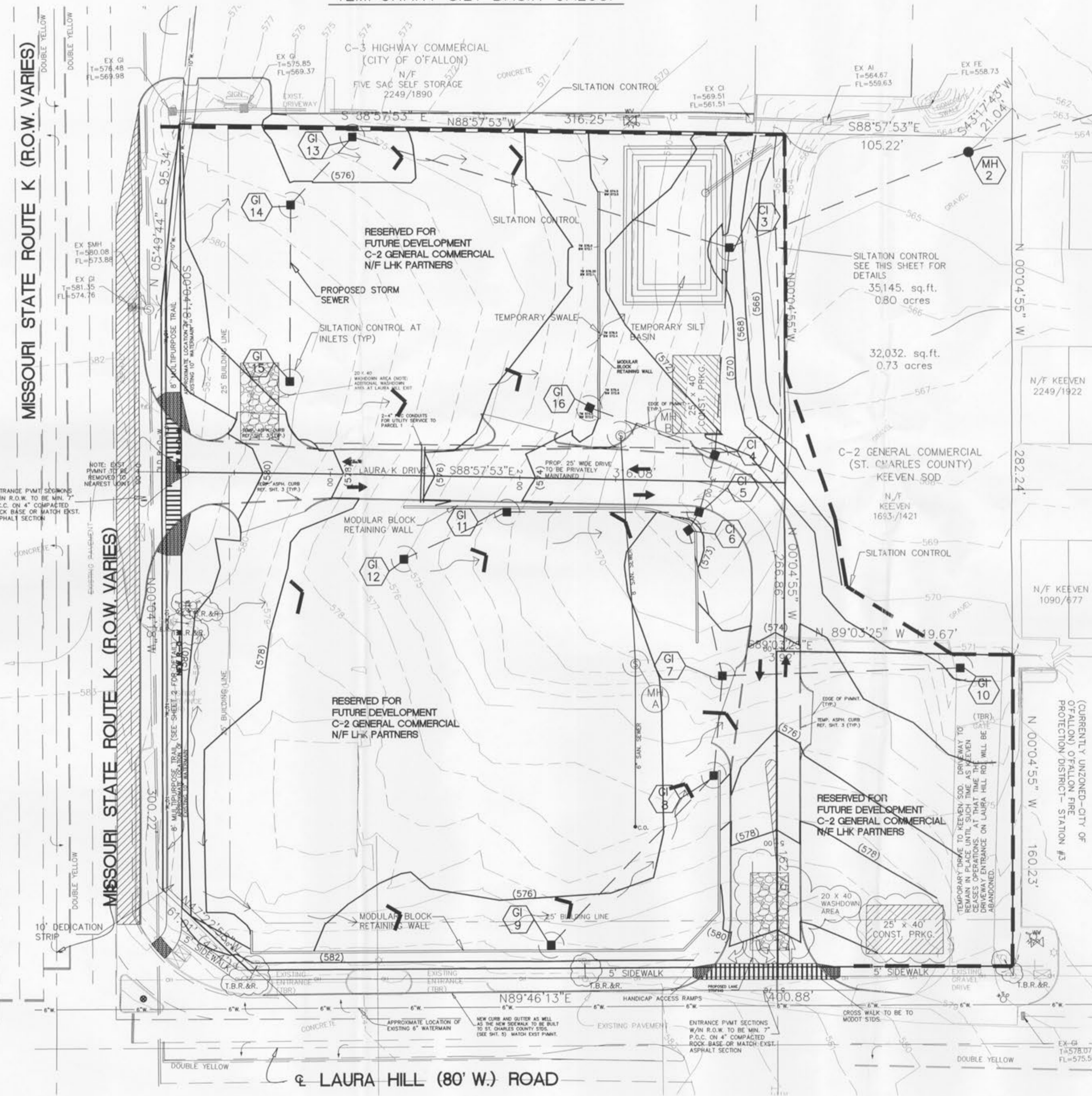
CONTRACTOR TO NOTIFY McDOT TRAFFIC DIVISION TO LOCATE ANY EXISTING SIGNAL AND LIGHTING UNDERGROUND CABLES OR WIRES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR EARTHWORK. (314) 340-4100.

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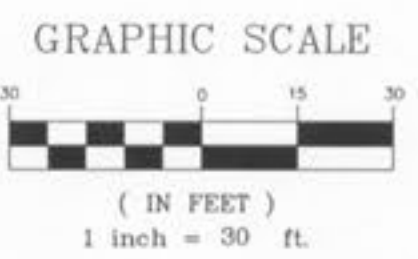
ZAVRADINOS PROFESSIONAL SERVICES, INC.

JEREMY B. CHILTON
STATE OF MISSOURI
NUMBER
PE 2005000963/1/21/2005
PROFESSIONAL ENGINEER

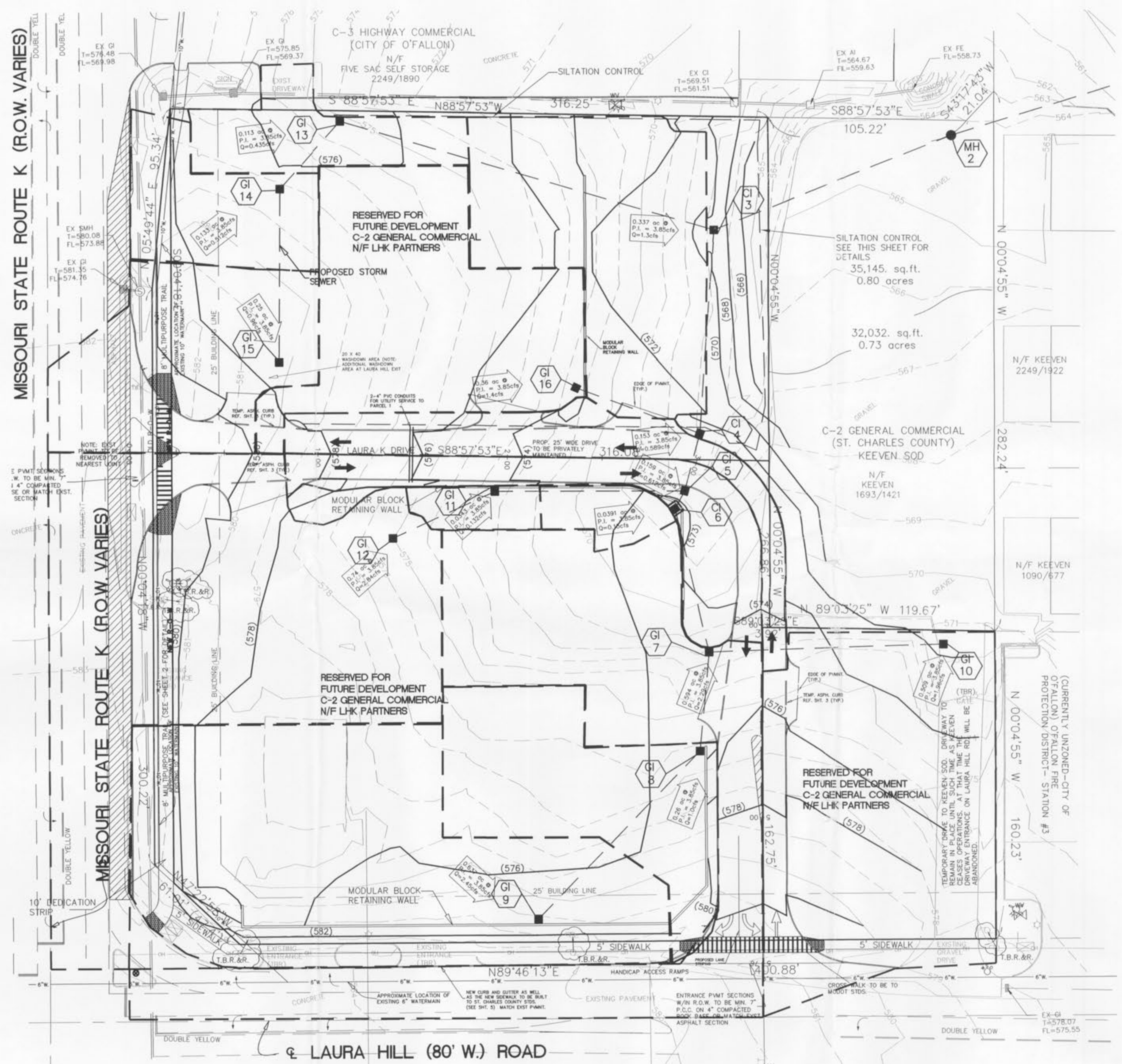
JEREMY B. CHILTON # 2005000963 DATE



O'FALLON P&Z # 3903.01
-SWPPP-



NOTE:
 THIS PLAN TO BE USED FOR
 DRAINAGE AREA PURPOSES
 ONLY. SEE IMPROVEMENT
 PLANS FOR ALL GRADING,
 SPOT ELEVATIONS, DETAILS,
 SEWERS, ETC.



Missouri One Call System, Inc.
 Call Before You Dig!
 1-800-DIG-RITE
 (1-800-344-7483)

CONTRACTOR TO NOTIFY M&DOT TRAFFIC DIVISION TO LOCATE ANY EXISTING SIGNAL AND LIGHTING UNDERGROUND CABLES OR WIRES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF EARTHWORK. (314) 340-4100.

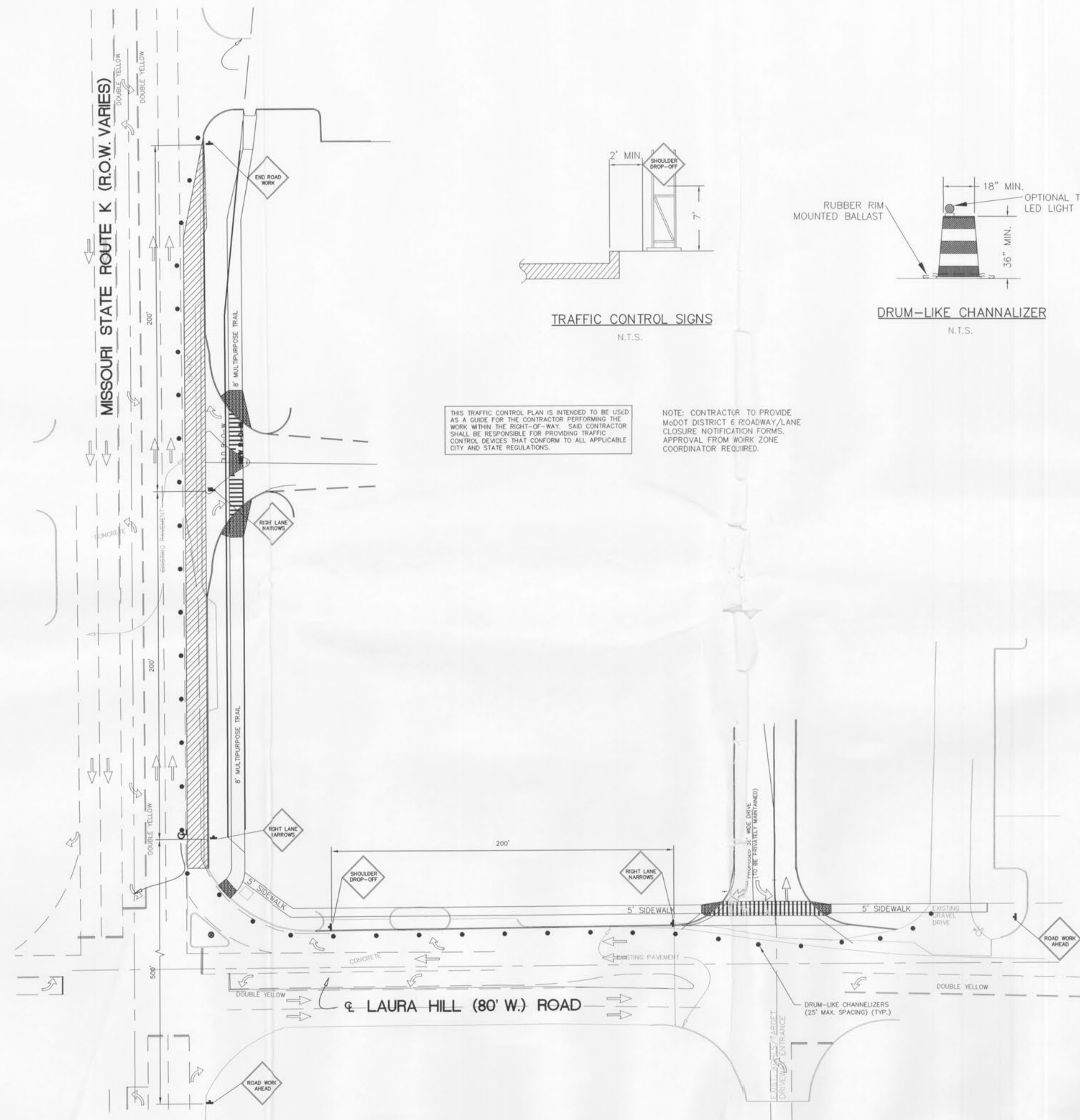
ALL THE IMPROVEMENTS & FACILITIES AND UTILITIES SHOWN GRADING AND UNDERGROUND SHOWN HEREIN WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, CORRECTNESS, DEPTH, SIZE, TYPE, NUMBER OR LOCATION OF THESE OR OTHER IMPROVEMENTS, FACILITIES, OR UTILITIES. THE GENERAL CONTRACTOR AND/OR OWNER SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION & ELEVATION OF ALL IMPROVEMENTS, FACILITIES, & UTILITIES, SHOWS OR NOT SHOWN, AND ANY IMPROVEMENTS, FACILITIES, & UTILITIES SHALL BE LOCATED BY THE BIDDOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF ANY IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY OBTAIN ANY PART FROM COMPLIANCE WITH THE Underground Facility Safety & Damage Prevention Act, Chapter 318, RSMo. CALL MISSOURI ONE-CALL, 1-800-DIG-RITE.

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ZAVRADINOS PROFESSIONAL ENGINEERS, INC.

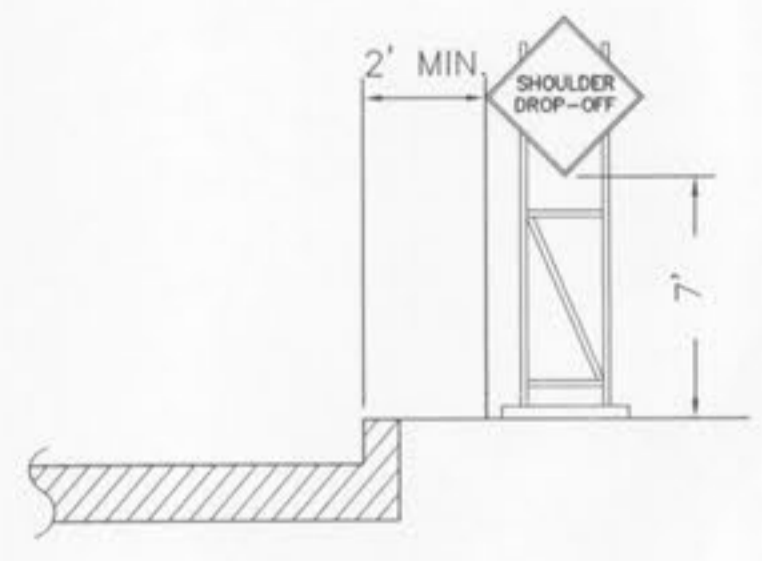
JEREMY B. CHILTON # 2005000963 DATE

O'FALLON P&Z # 3903.01
 -DRAINAGE AREA MAP-

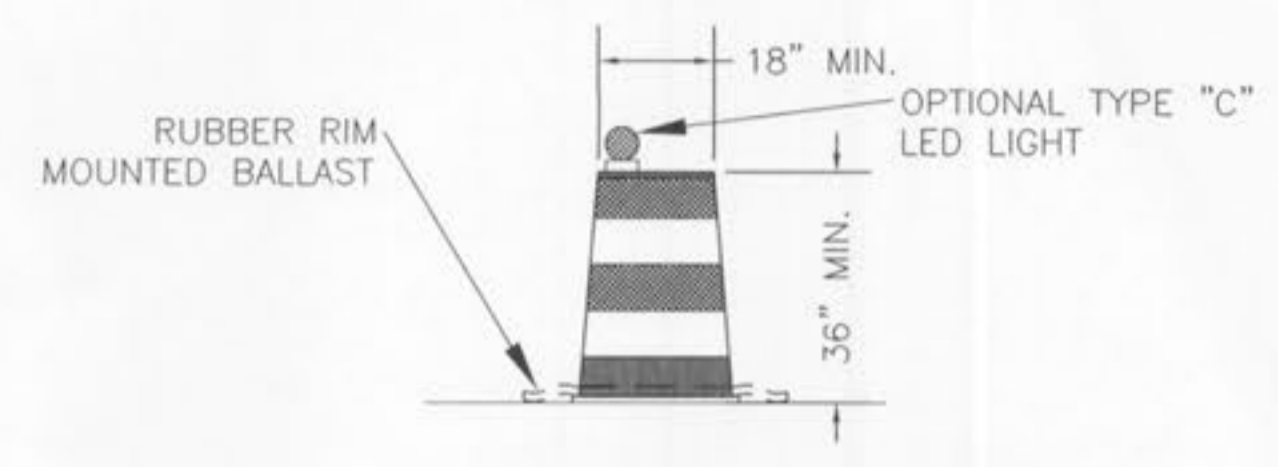


THIS TRAFFIC CONTROL PLAN IS INTENDED TO BE USED AS A GUIDE FOR THE CONTRACTOR PERFORMING THE WORK WITHIN THE RIGHT-OF-WAY. SAID CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL DEVICES THAT CONFORM TO ALL APPLICABLE CITY AND STATE REGULATIONS.

NOTE: CONTRACTOR TO PROVIDE MoDOT DISTRICT 6 ROADWAY/LANE CLOSURE NOTIFICATION FORMS. APPROVAL FROM WORK ZONE COORDINATOR REQUIRED.



TRAFFIC CONTROL SIGNS
 N.T.S.



DRUM-LIKE CHANNELIZER
 N.T.S.

VERTICAL DIMENSIONS DO NOT INCLUDE PROJECTIONS DESIGNED FOR EASE OF HANDLING.

MARKINGS ON CHANNELIZERS SHALL BE HORIZONTAL, CIRCUMFERENTIAL, ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES. EACH CHANNELIZER SHALL HAVE A MINIMUM OF TWO ORANGE AND TWO WHITE STRIPES WITH THE TOP STRIPE BEING ORANGE LOCATED NO MORE THAN 4 INCHES FROM THE TOP. ANY NON-REFLECTORIZED SPACES BETWEEN THE HORIZONTAL ORANGE AND WHITE STRIPES SHALL NOT EXCEED 2 INCHES WIDE.

DRUM-LIKE CHANNELIZERS SHALL HAVE CLOSED TOPS THAT WILL NOT ALLOW COLLECTION OF CONSTRUCTION OR OTHER DEBRIS.

BALLAST FOR TRAFFIC CONTROL DEVICES SHALL CONFORM TO MANUFACTURERS RECOMMENDATION FOR FIELD CONDITIONS.

IF REQUIRED BY THE ENGINEER OR SPECIFIED ON THE PLANS, EACH DIRECTIONAL INDICATOR BARRICADE OR DRUM-LIKE CHANNELIZER SHALL BE EQUIPPED WITH ONE TYPE "C" LED PORTABLE LIGHT UNIT. IF USED, THE LIGHT UNIT AND BATTERY COMPARTMENT SHALL BE FURNISHED BY THE DEVICE MANUFACTURER OR OTHERWISE MEET THE MANUFACTURER'S RECOMMENDATION FOR DESIGN AND WILL BE REQUIRED ON ALL DEVICES IN THE SERIES.

TEMPORARY CONSTRUCTION SIGNAGE
 N.T.S.



CONTRACTOR TO NOTIFY MoDOT TRAFFIC DIVISION TO LOCATE ANY EXISTING SIGNAL AND LIGHTING UNDERGROUND CABLES OR WIRES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR EARTHWORK. (314) 340-4100.

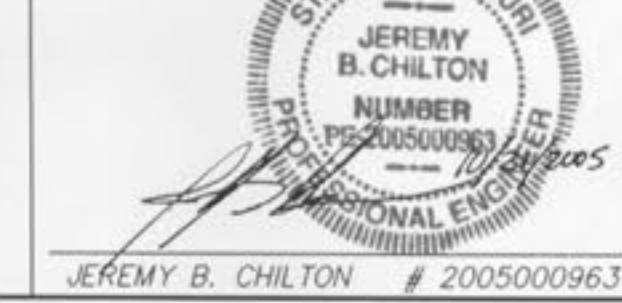


Missouri One Call System, Inc.
 Call Before You Dig!
 1-800-DIG-RITE
 (1-800-344-7483)

All the improvements & facilities and utilities, above ground and underground shown hereon were plotted from available information and do not necessarily reflect the actual existence, nonexistence, elevation, size, type, number or location of these or other improvements, facilities, or utilities. The General Contractor and/or owner shall be responsible for verifying the actual location & elevation of all improvements, facilities, & utilities, shown or not shown, and said improvements, facilities, & utilities shall be located in the field prior to any grading, excavation or construction of any improvements. These provisions shall in no way absolve any part from complying with the Underground Facility Safety & Damage Prevention Act, Chapter 314, RSMo. CALL MISSOURI ONE-CALL, 1-800-DIG-RITE.

ENGINEER'S CERTIFICATION:
 The following applies to ALL sheets and documents involved in the preparation of the plans and documents for this project. The responsibility for Professional Engineering liability on this project is limited to the set of plans displaying the signature and on original stamped seal of the Engineer on each sheet. ALL responsibility is Disclaimed: until ALL review agency approvals are granted; for all other plan sheets issued prior to this plan set date; for this set when another set is issued after this date; if the sheets are used individually instead of a set. This applies for ALL sheets and documents involved in this project whether this statement appears on them or not. Copyright. All Rights Reserved.

ZAVRADINOS PROJECT ENGINEERING SERVICES, INC.



JEREMY B. CHILTON # 2005000963 DATE

O'FALLON P&Z # 3903.01
 -TRAFFIC CONTROL PLAN-

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