

GENERAL NOTES

1. Driveway locations shall not interfere with the sidewalk handicap ramps, or curb inlet sumps
 2. Sidewalks, curb ramps, ramps and 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 materials, 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.
 - 2.1. Truncated domes for curb ramps located in public right of way shall meet PROWAG requirements and shall be constructed using red pre-cast truncated domes per pavement details.
 3. Any proposed pavilions or playground areas will need a separate permit from the Building Division.
 4. The Contractor is responsible to call Missouri One Call and The City of O'Fallon for the location of utilities. Contact the City of O'Fallon (636) 379-3814 for the location of City maintained cable for street lights and traffic signals, all other utilities call Missouri One Call 1-800-DIG-RITE. 1-800-344-7483
 5. All proposed utilities and/or utility relocations shall be located underground.
 6. All proposed fencing requires a separate permit through the Building Safety Division.
 7. All construction operations and work zone traffic control within the right of way will follow MoDOT or M.U.T.C.D. standards whichever is more stringent.
 8. (INTENTIONALLY OMITTED)
 9. All subdivision identification or directional sign(s) must have the locations and sizes approved and permitted separately through the Planning and Development Division.
 10. Materials such as trees, organic debris, rubble, foundations, and other deleterious material shall be removed from the site and disposed of in compliance with all applicable laws and regulations. If the material listed previously are reused, a letter from a soil Engineer must clarify amount, location, depth, etc. and be approved with the construction plans. Landfill tickets for such disposal shall be maintained on file by the developer. Burning on site shall be allowed only by permit from the local fire district. If a burn pit is proposed the location and mitigation shall be shown on the grading plan and documented by the soils engineer.
 11. Twenty-four (24) hours prior to starting any of the work covered by the above plans and after approval thereof, the developer shall make arrangements with the Construction Inspection Office to provide for inspection of the work, sufficient in the opinion of the City Engineer, to assure compliance with the plans and specifications as approved.
 12. The City Engineer or their duly authorized representative shall make all necessary inspections of City infrastructure, escrow items or infrastructure located on the approved plans.
 13. All installations and construction shall conform to the approved engineering drawings. However, if the developer chooses to make minor modifications in design and/or specifications during construction, he/she shall make such changes at his/her own risk, without any assurance that the City Engineer will approve the completed installation or construction. It shall be the responsibility of the developer to notify the City Engineer of any changes from the approved drawings. The developer may be required to correct the installed improvements so as to conform to the approved engineering drawings. The developer may request a letter from the Construction Inspection Division regarding any field changes approved by the City inspectors.
 14. City approval of the construction site plans does not mean that any building can be constructed on the lots without meeting the building setbacks as required by the zoning code.

Grading Notes

1. Developer must supply City Construction Inspectors with an Engineer's soil reports prior to and during site grading. The soil report will be required to contain the following information on soil test curves (Proctor reports) for projects within the City:

 - 1.1. Maximum dry density
 - 1.2. Optimum moisture content
 - 1.3. Maximum and minimum allowable moisture content
 - 1.4. 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 ASSHTO T-99, Method C" (A.S.T.M.-D-698). Proctor type must be designated on document.
 - 1.5. Curve must have at least 5 density points with moisture content and sample locations listed on document
 - 1.6. Specific gravity
 - 1.7. Natural moisture content
 - 1.8. Liquid limit
 - 1.9. 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.

 2. All fill placed in areas other than proposed storm sewers, sanitary sewers, proposed roads, and paved areas shall be compacted from the bottom of the fill up in 8" lifts and compacted to 90% maximum density as determined by Modified AASHTO T-180 compaction test or 95% of maximum density as determined by the Standard Proctor Test AASHTO T-99. Ensure the moisture content of the soil in fill areas corresponds to the compactive effort as defined by the Standard or Modified Proctor Test. Optimum moisture content shall be determined using the same test that was used for compaction. Soil compaction curves shall be submitted to the City of O'Fallon prior to the placement of fill.
 3. The surface of the fill shall be finished so 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.
 4. All sediment and detention basins are to be constructed during the initial phase of the grading operation or in accordance with the approved SWPPP.
 5. When grading operations are complete or suspended for more than 14 days, permanent grass must be established at sufficient density to provide erosion control on site. Between permanent grass seeding periods, temporary cover shall be provided according to Missouri Department of Natural Resources Protecting Water Quality – a field guide to erosion, sediment and stormwater best management practices for development sites in Missouri and Kansas. All finished grades (areas not to be disturbed by improvements) in excess of 20% slopes (5:1) shall be mulched and tacked at a rate of 100 pounds per 1000 square feet when seeded.
 6. No slopes shall exceed 3 (horizontal): 1 (vertical) unless otherwise approved by the soils report and specifically located on the plans and approved by the City Engineer.
 7. All low places whether on site or off shall be graded to provide drainage with temporary ditches.
 8. Any existing wells and/or springs which may exist on the property must be sealed in a manner acceptable to the City of O'Fallon Construction Inspection Department and following Missouri Department of Natural Resources standards and specifications.
 9. (INTENTIONALLY OMITTED)
 10. All trench back fills under paved areas shall be granular back fill, and compacted mechanically. All other trench back fills may be earth material (free of large clods, or stones) and compacted using either mechanical tamping or water jetting. Granular material and earth material associated with new construction outside of pavements may be jetted, taking care to avoid damage to newly laid sewers. The jetting shall be performed with a probe route on not greater than 7.5 foot centers with the jetting probe centered over and parallel with the direction of the pipe. Trench widths greater than 10 feet will require multiple probes every 7.5 foot centers.
 - 10.1. Depth, Trench back fills less than 8 feet deep shall be probed to a depth extending half the depth of the trench back fill, but not less than 3 feet. Trench back fill greater than 8 feet in depth shall be probed to half the depth of the trench back fill but not greater than 8 feet.
 - 10.2. Equipment, The jetting probe shall be a metal pipe with an interior diameter of 1.5 to 2 inches.
 - 10.3. Method, Jetting shall be performed from the lowest surface topographic point and proceed toward the highest point, and from the bottom of the trench back fill toward the surface. The flooding of each jetting probe shall be started slowly allowing slow saturation of the soil. Water is not allowed to flow away from the trench without first saturating the trench.
 - 10.4. Surface Bridging, The contractor shall identify the locations of the surface bridging (the tendency for the upper surface to crust and arch over the trench rather than collapse and consolidate during the jetting process). The contractor shall break down the bridged areas using an appropriate method such as wheels or bucket of a backhoe. When surface crust is collapsed, the void shall be back filled with the same material used as trench back fill and re-jetted. Compaction of the materials within the sunken/jetted area shall be compacted such that no further surface subsidence occurs.
 11. Site grading.
 - 11.1. Within City right-of-way. Material is to be placed in eight (8) inch to twelve (12) inch loose lifts and compacted per the approved compaction requirements. One (1) compaction test will be performed every two hundred fifty (250) feet along the centerline for each lift.
 - 11.2. Outside of City right-of-way. Material is to be placed in eight (8) inch to twelve (12) inch loose lifts and compacted per the approved compaction requirements. One (1) compaction test will be performed at two (2) foot vertical intervals and approximately every one thousand (1,000) cubic yards.
 12. Access to the site from any other location other than the proposed construction entrance is strictly prohibited!

On Control Notes

- Permittee shall assume complete responsibility for controlling all siltation and erosion of the project area. The Permittee shall use whatever means necessary to control erosion and siltation including, but not limited to, staked straw bales and/or erosion fabric fences (possible methods of control are detailed in the plan). Control shall commence with the clearing operations and be maintained throughout the project until acceptance of the work by City of O'Fallon and as needed by MoDOT. The Permittee's responsibilities include all design and implementation as required to prevent erosion and the depositing of silt. The City of O'Fallon and as required by MoDOT may at their option direct the Permittee in his methods as deemed fit to protect property and improvements. Any depositing of silt or mud on new or existing pavement shall be removed immediately. Any depositing of silts or mud in new or existing storm sewers and/or swales shall be removed after each rain and affected areas cleaned to the satisfaction of the City of O'Fallon and as required by MoDOT." Erosion control systems are to be inspected and corrected weekly, especially within 48 hours of any rain storm resulting in one-quarter inch of rain or more. Any silt or debris leaving the site and affecting public right of way or storm water drainage facilities shall be cleaned up within 24 hours after the end of the storm.

Erosion control devices (silt fence, sediment basin, etc.) shall be in accordance with Missouri Department of Natural Resources Protecting Water Quality – a field guide to erosion, sediment and stormwater best management practices for development sites in Missouri and Kansas.

Development is required to provide long term post construction BMP's such as; low impact design, source control and sediment controls that protects water quality and controls run off to maximum extent practical in compliance with Phase II Storm Water Discharge Guidelines. (Ord. 5082, section 405.245)

Disturbed areas shall be seeded and mulched (strawed) within 14 days of stopping land disturbance activities. Unless it can be shown to the City Engineer that weather conditions are not favorable, vegetative growth is to be established within 6 weeks of stopping grading work on the project. The vegetative growth established shall be sufficient to prevent erosion and the standard shall be as required by EPA and DNR. (70% coverage per square foot) Ord. 6496. Section 405.095

Notes

- re hydrants shall be a maximum of 600' apart. Local fire district approval is required.
oordinate with the water company on the location of water meters. For meters in the City's district, meters shall be in the
ight-of-way, otherwise an access easement from the right-of-way shall be provided.
I water main must have a minimum of 42" of cover. (City water mains)
rovide water valves to isolate the system.
I water mains shall be class 200 SDR 21 or equal with locator/tracer wires
the excavations are made in the improved portion of the right-of-way, twelve inches of granular backfill will be placed over
xposed facilities and controlled low strength material (CLSM) aka flowable fill will fill the hole with eight inches of the finished
urface for concrete pavement. There will be a plastic membrane placed between the rock base and the CLSM to prevent the
aterial from bleeding into the rock base. The remaining eight inches will be restored by placing a 28 day, 4,000 psd concrete
ix.
SINFECTING: Disinfecting shall be accomplished by placing sufficient hypo chlorite granule (HTH) in each section of pipe to
achieve a chlorine residual in the pipeline, upon initial filling, of 50 mg/L (PPM). HT. tablets will not be allowed. Following
ompletion of the pipeline, it shall be slowly filled with water and a sample will be taken immediately and the chlorine
esidual must be 50 mg/L or greater. The solution shall be allowed to stand for 24 hours and a sample shall then be
aken. The chlorine residual after 24 hours shall be 30 mg/L or greater. If the piping shows insufficient chlorine residuals in
ther test, the piping shall be re-chlorinated by the injection of hypo chlorite solution until satisfactory results are achieved.
I disinfecting shall be done by the contractor. Only the testing to determine the chlorine residual will be done by the City.
PRESSURE TESTING: Immediately following disinfection, the piping shall be pumped to a pressure (at the HIGHEST point in the
roject) of 150 psi or higher where the working pressure is higher than 150 PSI as determined by the City. In such cases,
the pressure shall be as specified by the City and two pressure tests shall be conducted. The first test shall be with the fire
hydrant auxiliary valve open and be to 50 PSI. The second test shall be with the fire hydrant auxiliary valve closed and be to
the higher pressure as directed by the City. All pumping equipment and pressure gauges shall be provided by the contractor.
fter achieving the test pressure, the piping shall be left closed for a period of two (2) hours. At the end of this time the
pressure drop shall not exceed 2 psi. In addition, if the pressure appears, in judgment of the City's representative, to be
continuing to drop, the test shall be continued for another two (2) hours and if any further drops occur, the test shall be
considered a failure. If the pressure test fails, the contractor will be required to find and correct the source of the leakage.
this requires draining of the pipeline, when the leakage is corrected, the pipeline must be re-disinfected and the pressure
tested again until satisfactory result are achieved. Any MDNR required dechlorination will be performed by the contractor.
ll tops for valves, meters, and manholes are to be constructed to within 1 inch (0.08') of finish grade. Grading
round structure tops on slopes need to be accounted for.
ACTERIOLOGICAL TESTING: After satisfactory disinfection and pressure testing, a sample shall be taken by the contractor in
the presence of a City representative and submitted to a laboratory approved by the Missouri Department of Natural
resources and the City for bacteriological analysis. After 24 hours, a second sample shall be taken in a like manner and
submitted for analysis. The two samples taken on consecutive days ,a minimum of 24 hours apart, must be found to be
"safe" by the testing laboratory, and copies of the test results must be supplied to the City. If the samples are not found to
be "safe" further flushing and/or disinfection as directed by the City shall be conducted by the contractor until "safe"
amples on two consecutive test days are achieved. Following successful bacteriological testing and a determination by the
City that the samples are "safe", the mains may be placed into service.

adway Notes

- All paving (public and private) to be in accordance with St. Louis County Standards and Specifications except as modified by the City of O'Fallon ordinances.

If the intersecting road does not have a curb, then the curb on the new entrance shall begin 10' from the edge of the existing road.

Provide 6" of concrete over 5" of aggregate base rock or asphalt equivalent for minor residential streets per City Code 405.370.

1. Rock to meet the all the requirements of MoDOT type 5 rock with a tighter restriction on the fines being that no more than ten percent (10%) fines shall pass a no. 200 sieve. (City Code 405.210.B.1) The gradation of this rock needs to be submitted to the City for approval. Any deliveries made without the proper delivery ticket, including signature, will not be accepted. The delivery ticket must list the project name or jobsite location. A separate certification sheet may be provided attached to the delivery ticket with a signature of the company's quality control manager. The quality control certification must be current and dated within 4 weeks of the delivery. (City Code 405.210.A.2.k)

Multi-use trail (when required) Shall have a minimum of 3" Type "C" Asphalt over 4" aggregate base per City requirements.

Type C (BP-1) Compaction requirements shall be 98% minimum density according to St. Louis Co. Standard Specifications.

Provide pavement striping at any point where the multi-use trail crosses existing or proposed pavement

All street stub-outs over 250' in length will require a temporary turnaround.

All sub grade in cut or fill will need to conform to the City of O'Fallon Compaction requirements

Material Testing And Frequency. Materials for construction shall be tested and inspected per the appropriate ASTM code or at the City Engineer's discretion. The developer's engineer shall perform quality control guidelines, in accordance with St. Louis County requirements 501.3.1.

Approval Of Sub grade And Base (Sub base). The City Engineer or representative shall approve the sub grade before any base is placed thereon and shall approve the base before concrete or surface course is placed. The sub grade and base shall be so constructed that it will be uniform in density throughout.

In all fill areas in the roadways, soil tests shall be submitted and approved by the City Engineer for each foot of fill and at least one (1) test and an average of one (1) test within every two hundred fifty (250) feet.

No traffic will be allowed on new concrete pavement until it has cured for seven (7) days and it reaches three thousand five hundred (3,500) psi within 28 days.

1. Concrete pavements shall not be approved unless it reaches a strength of four thousand (4,000) psi. Cylinders/compressive strength. One (1) set of four (5) cylinders within the first fifty (50) cubic yards and one (1) set per one hundred (100) cubic yards thereafter. One (1) cylinder must be tested at seven (7) days, three (3) at twenty-eight (28) days, and one (1) held in reserve.

Prior to placement of aggregate base material on sub grade and prior to placement of pavement on base material, the sub grade and base must be proof-rolled with a fully loaded (ten (10) ton load) tandem truck or equivalent tire vehicle with one (1) pass down each driving lane no faster than three (3) miles per hour. If soft spots are detected, or pumping, rutting or heaving occurs

Term Sewer Notes

4. All Storm Sewer installation is to be in accordance with M.S.D. standards and specifications except as modified by the City of O'Fallon ordinances.

5. Brick shall not be used in the construction of storm sewer structures. Pre cast concrete structures are to be used unless otherwise approved by the City of O'Fallon.

6. 5/8" trash bar shall be installed horizontally in the center of the opening(s) in all curb inlets and area inlets.

7. INTENTIONALLY OMITTED)

8. Encase with concrete both sanitary and storm sewer at crossing when storm sewer is within 18 inches above sanitary sewer. Add concrete cradle to only RCP storm sewer and encase flexible storm sewer when it is more than 18 inches above sanitary line. Show on profile sheet.

9. The storm sewers should run diagonally through the side yards to minimize any additional utility easements required.

10. All concrete pipes will be installed with O-ring rubber type gaskets.

11. Connections at all storm structures are to be made with A-lock joint or equal.

12. Pre cast concrete inlet covers are not to be used.

12. The swale in the detention basins shall have a minimum 2% longitudinal slope and be lined with a permanent erosion control blanket that will allow infiltration of storm water.

12. All structures and flared end sections must be concrete. H.D.P.E. pipe will not be allowed for detention basin outflows, final pipe run to detention basins, creek discharge or other approved means.

12. INTENTIONALLY OMITTED)

13. Rip rap shown at flared end sections will be evaluated in the field by the Engineer, Contractor, and City Inspectors after installation for effectiveness and field modified, if necessary to reduce erosion on and off site.

13. Add 1" minus rock back fill to all storm sewer that lie within the 1:1 shear plane of the road.

13. INTENTIONALLY OMITTED)

d plain Information

- Refer to Section 415 for Floodplain Development Information

CLAIMER OF RESPONSIBILITY
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authenticated by my seal are limited to this sheet.
I hereby disclaim any responsibility for all other
drawings, Specifications, Estimates, Reports or other
documents or instruments relating to or intended to
be used for any part or parts of the architectural or
engineering project or survey.

A circular seal for a Missouri Professional Engineer. The outer ring contains the text "MISSOURI" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by a horizontal line. The inner circle contains "STATE OF MISSOURI" at the top, "LARRY DAVID WALKER" in the center, "NUMBER" below it, and "PE-2007020343" at the bottom. The seal is signed with a stylized "L.D. WALKER" and features a star at the bottom right.

11/05/17
Larry D. Walker
CIVIL ENGINEER
2007020343

Owner:
Drive
3366

Developer / Owner:
Mark Steiniger
854 Long Star Drive
O'Fallon, MO 63366

P+Z No. 25-008321
Approved: 09-04-2025

City No. GR25-000007

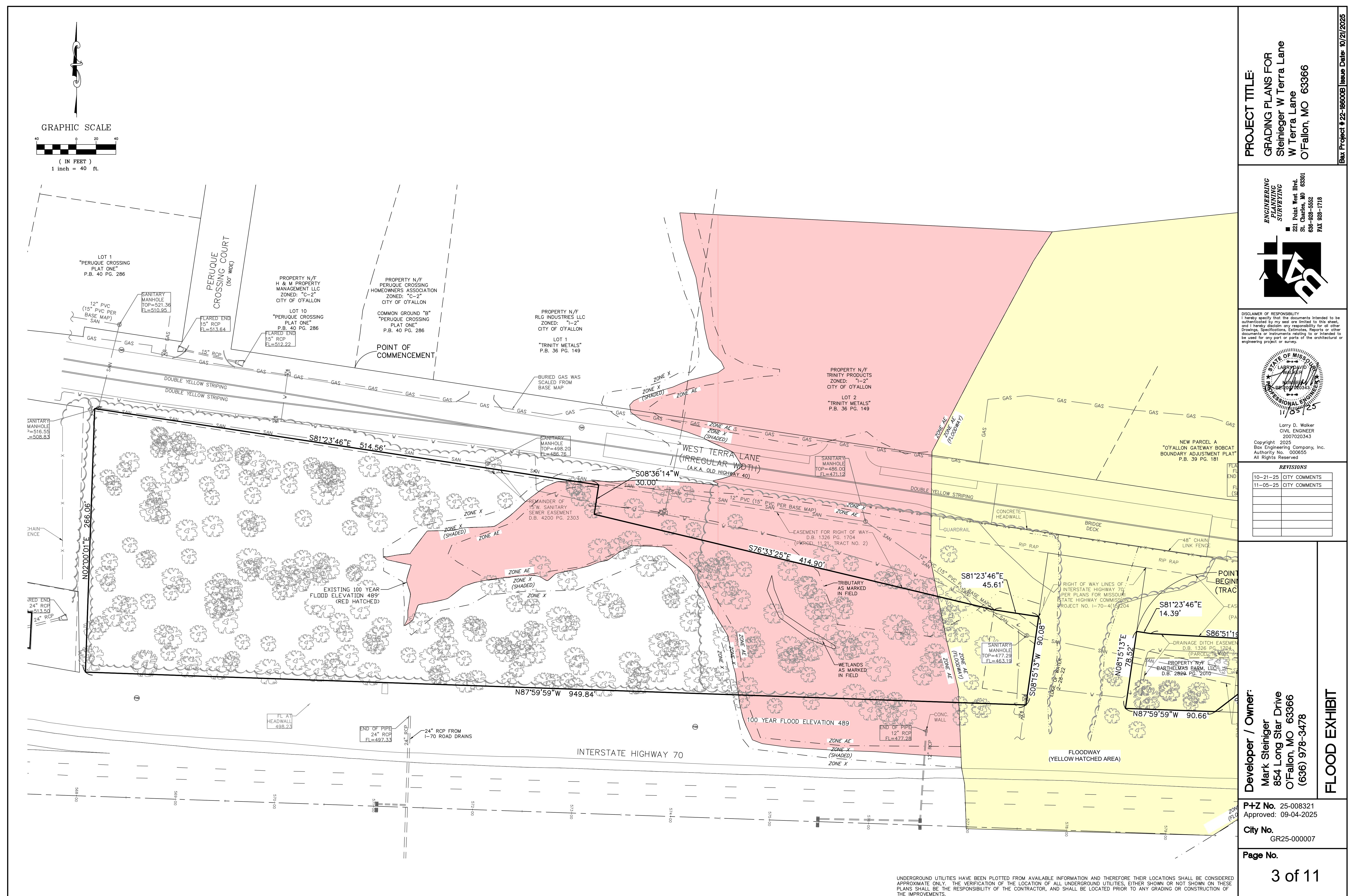
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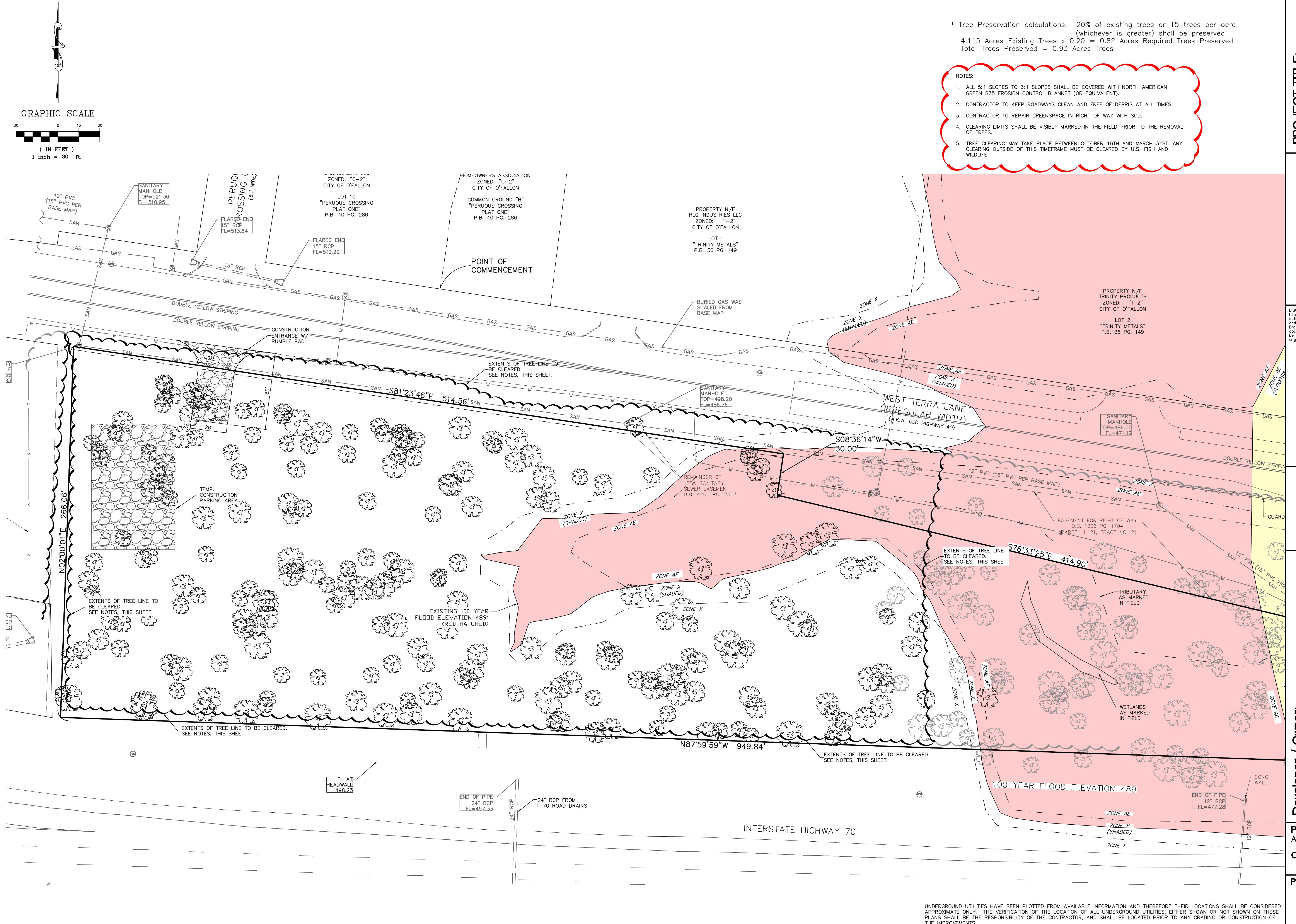
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CONSTRUCTION NOTES

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engineering project or survey.

A circular seal for a Missouri Professional Engineer. The outer ring contains the text "STATE OF MISSOURI" at the top and "PROFESSIONAL ENGINEER" at the bottom. The center features a five-pointed star on the left and a four-pointed star on the right. The name "LABRY DAVID WALKER" is written across the center. Below the name is the text "NUMBER" and "PE-2007020343". At the bottom, the date "11/05/25" is written.

Larry D. Walker
CIVIL ENGINEER
2007020343

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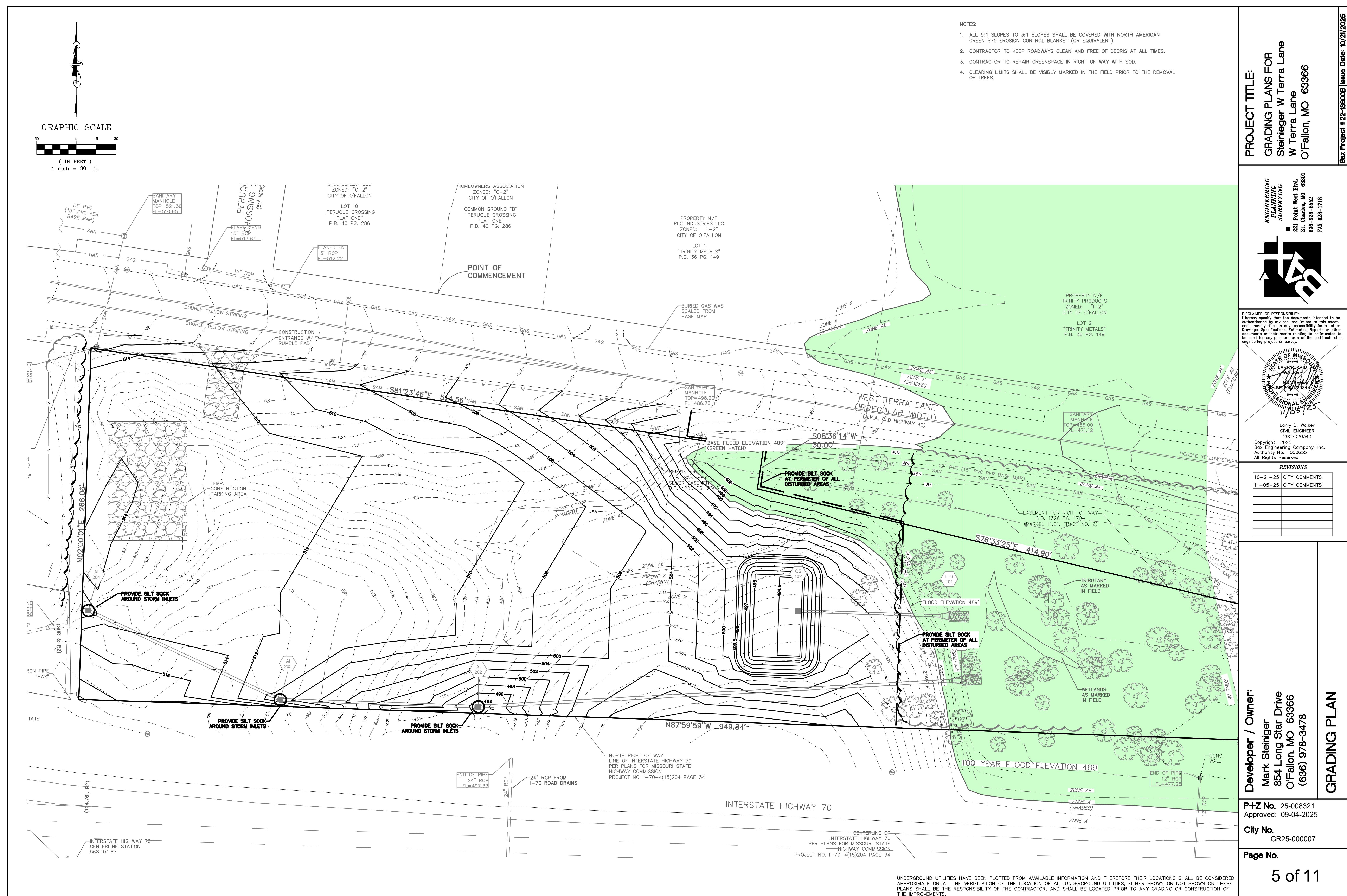
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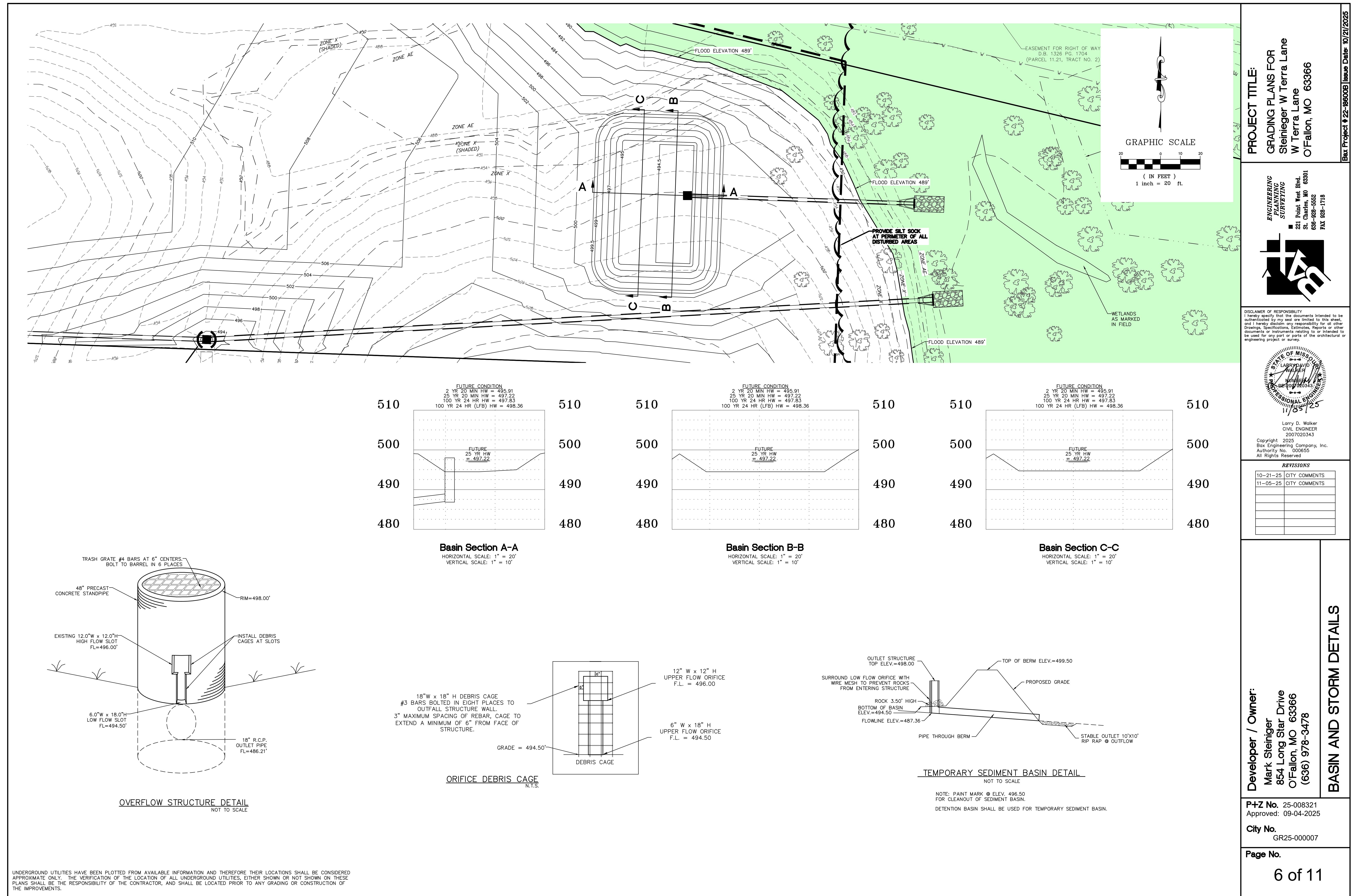
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proved. 09-04-2025
Serial No.
GR25-000007

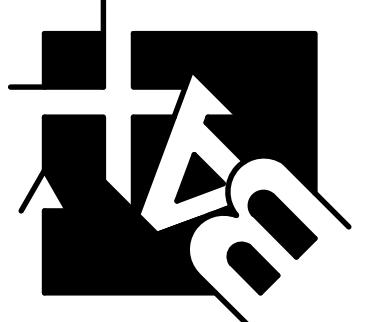
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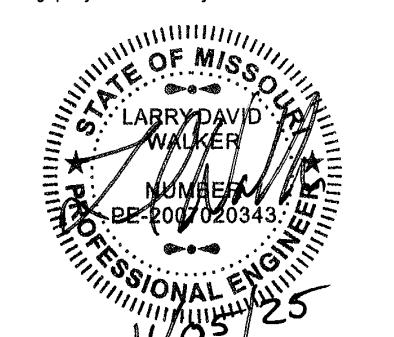




PROJECT TITLE:
GRADING PLANS FOR
Steiniger W Terra Lane
W Terra Lane
Offallon, MO 63366



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Larry D. Walker
CIVIL ENGINEER
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Authority No. 000655
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REVISIONS	
10-21-25	CITY COMMENTS
11-05-25	CITY COMMENTS

STORMWATER PROFILES

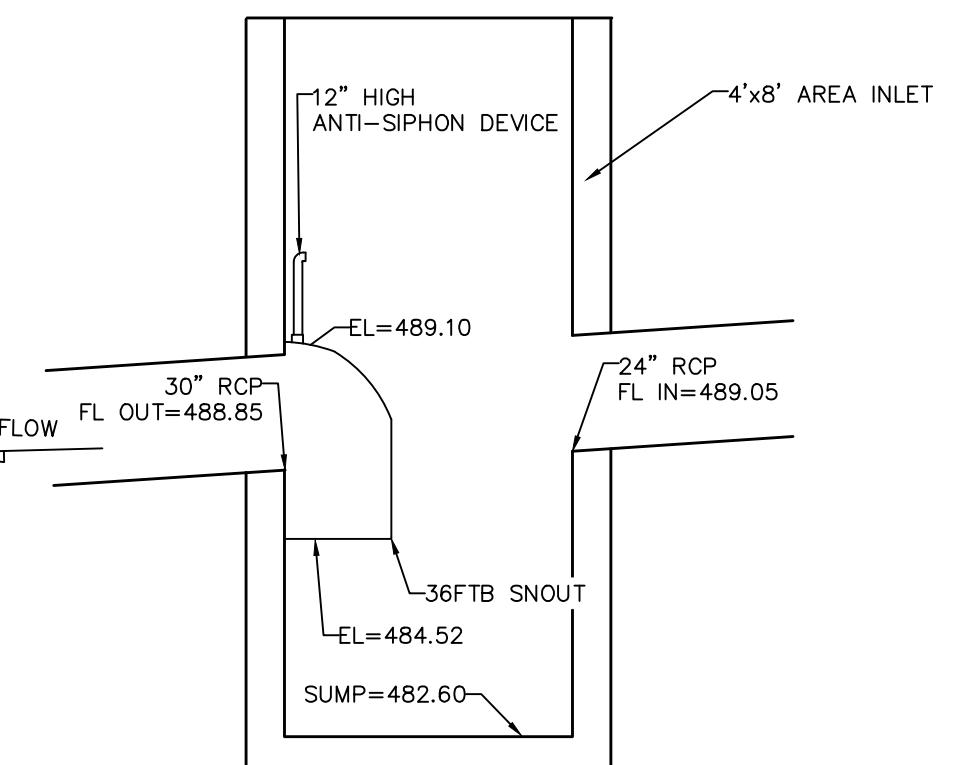
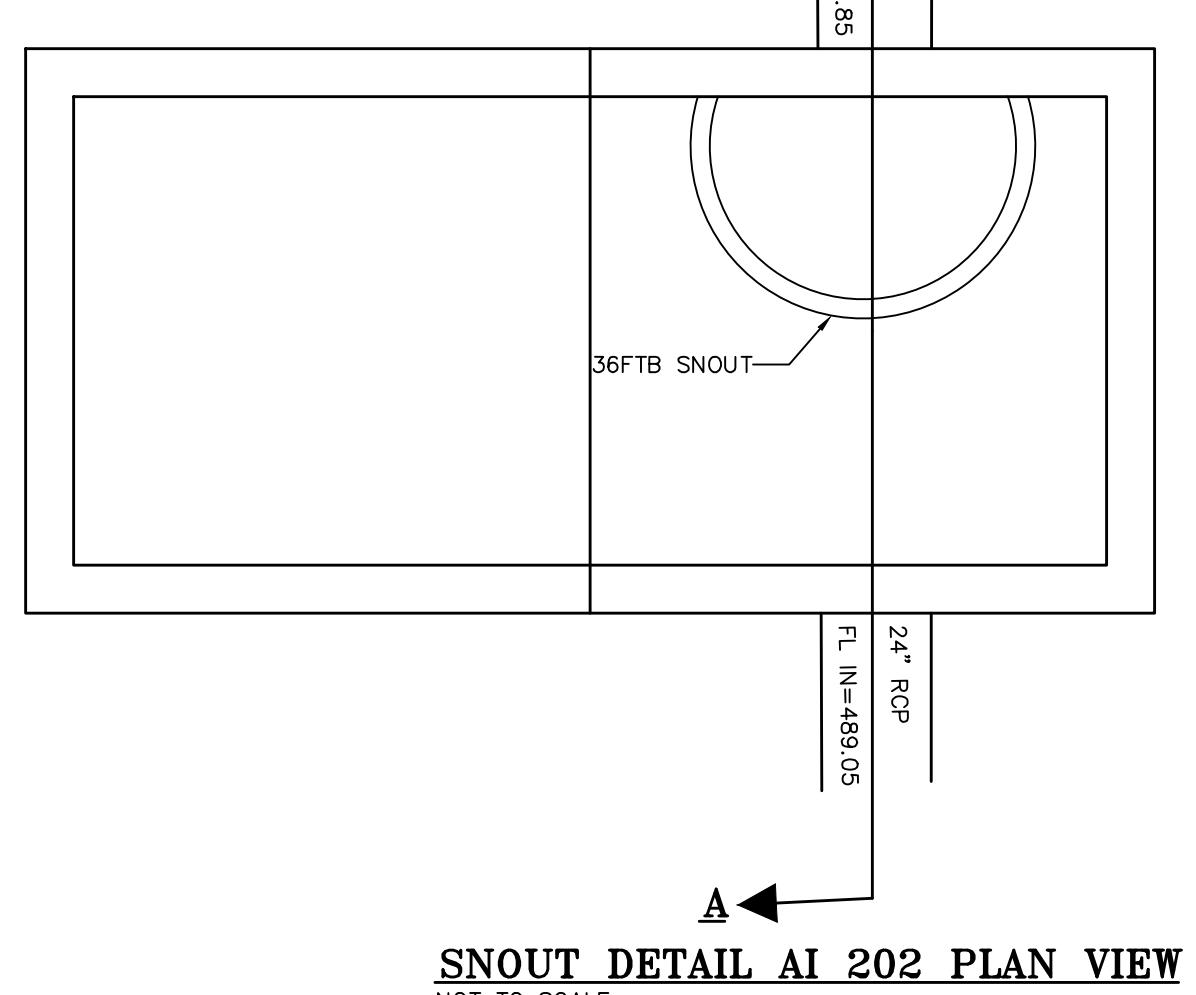
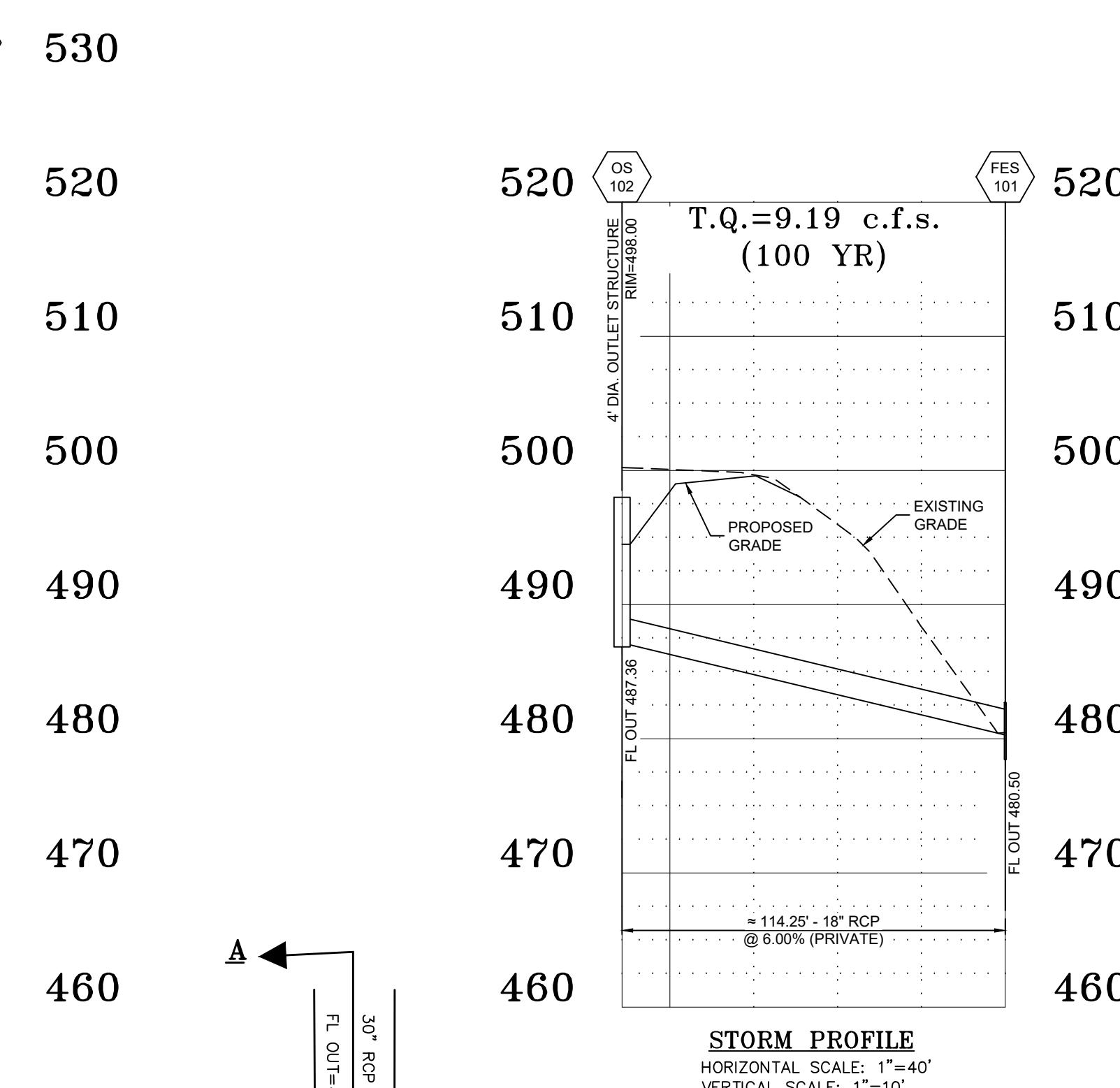
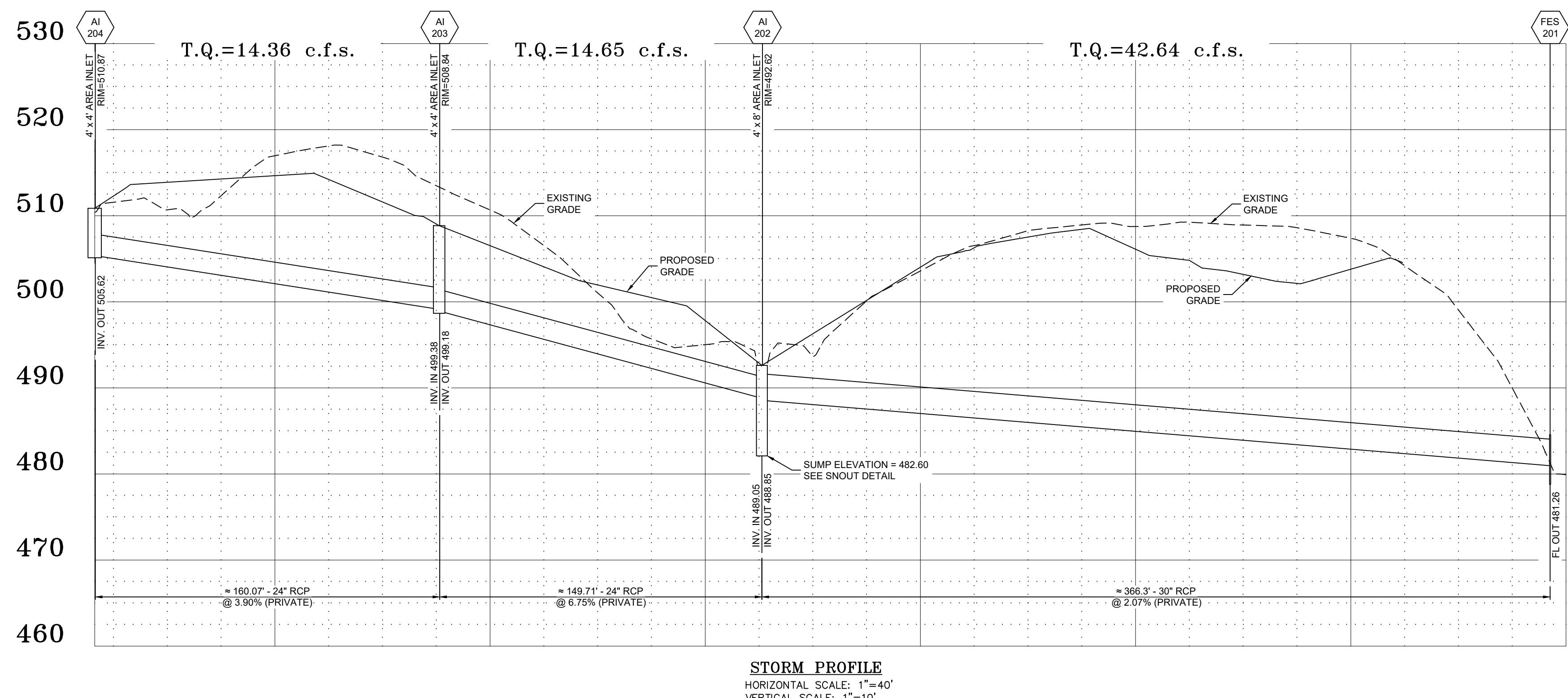
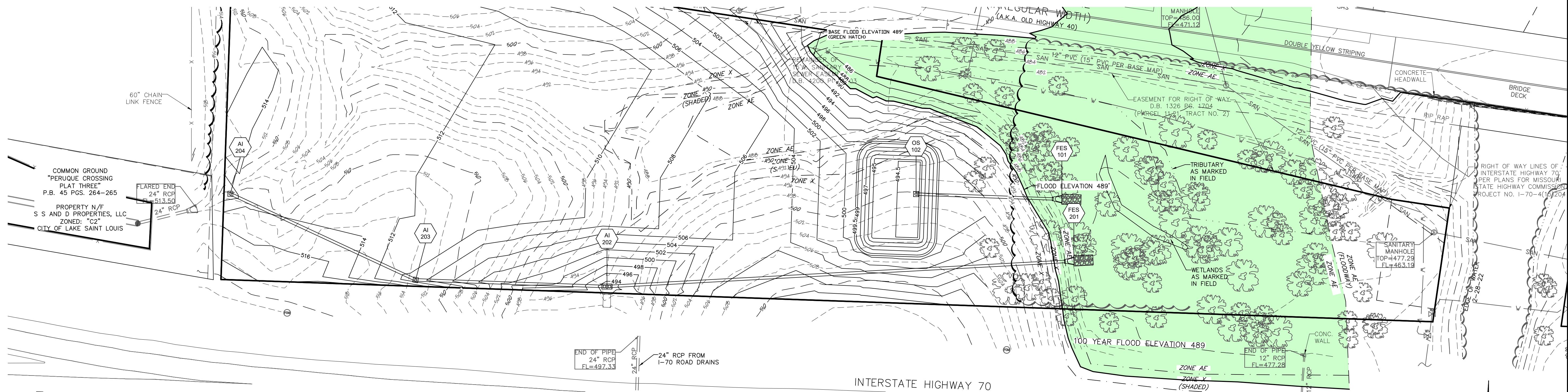
Developer / Owner:
Mark Steiniger
854 Long Star Drive
Offallon, MO 63366
(636) 978-3478

P+Z No. 25-008321
Approved: 09-04-2025

City No.
GR25-000007

Page No.

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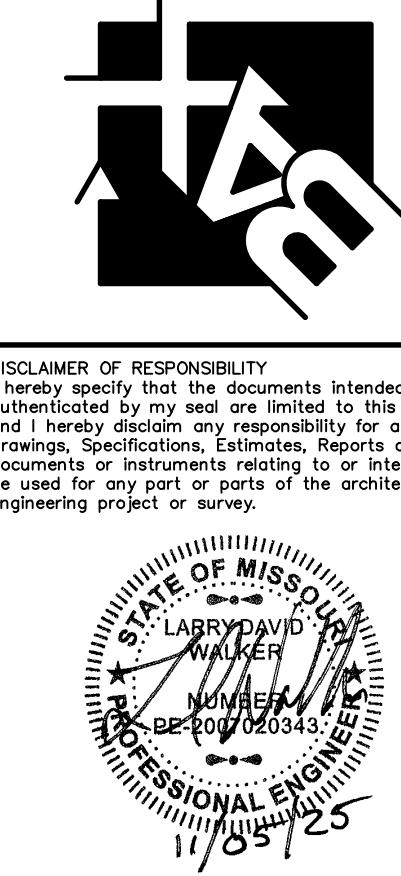


SNOUT DETAIL AI 202 PROFILE VIEW: A-A
NOT TO SCALE

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.

ENGINEER SEAL DOES NOT APPLY TO MSD / SNOOT DETAILS

PROJECT TITLE:
GRADING PLANS FOR
Steiniger W Terra Lane
W Terra Lane
Offallon, MO 63366
Box Project #122-8603 Issue Date: 10/21/2025

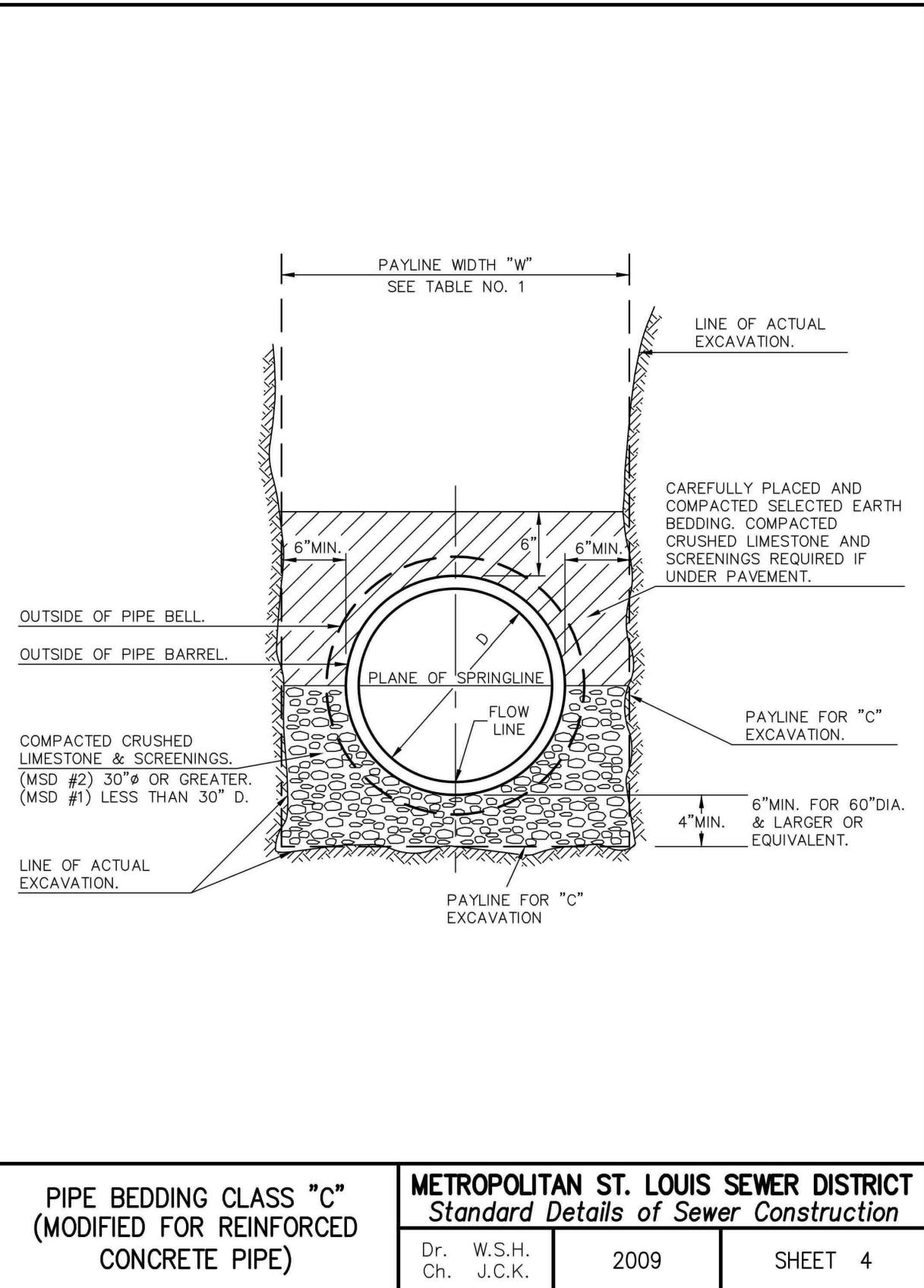


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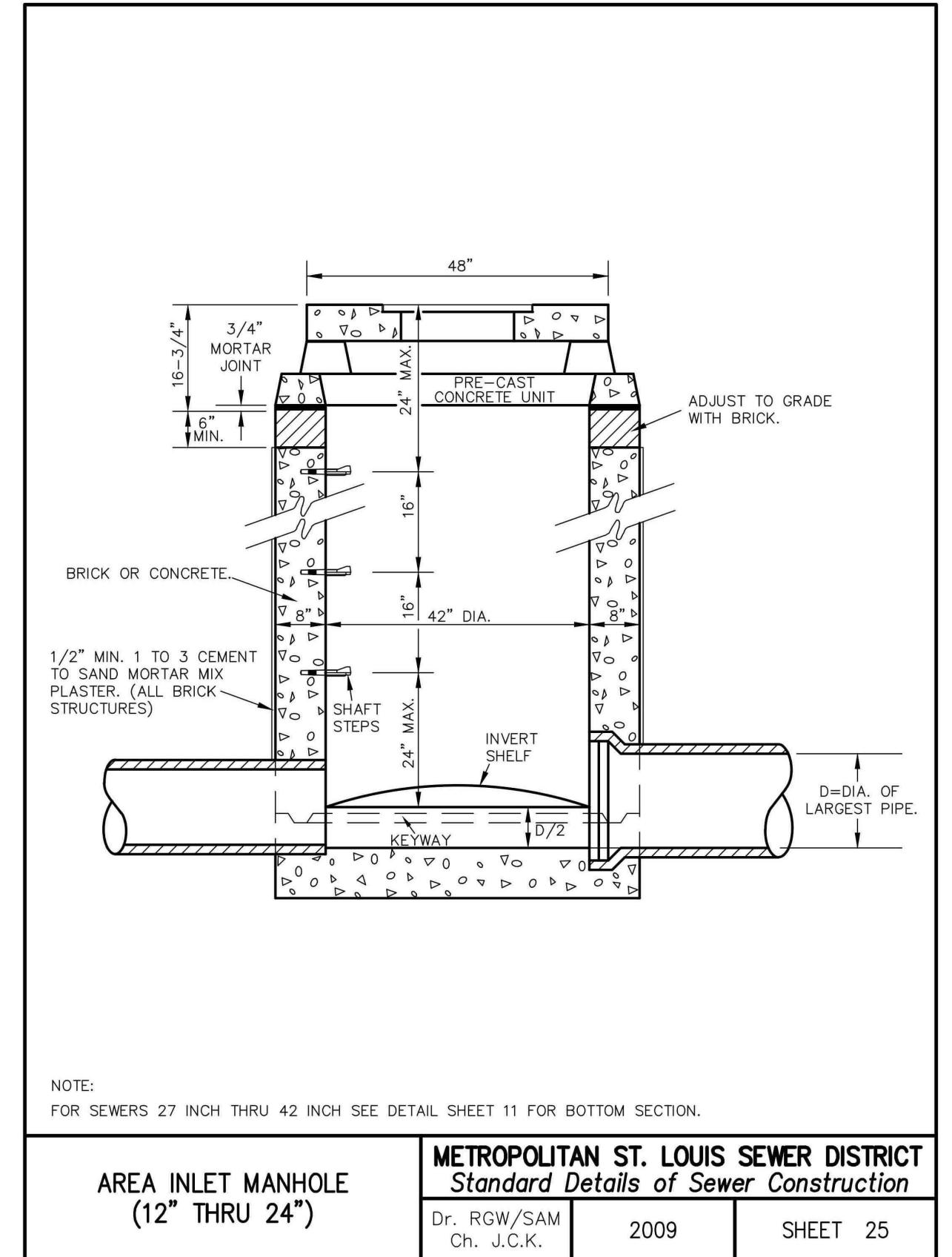
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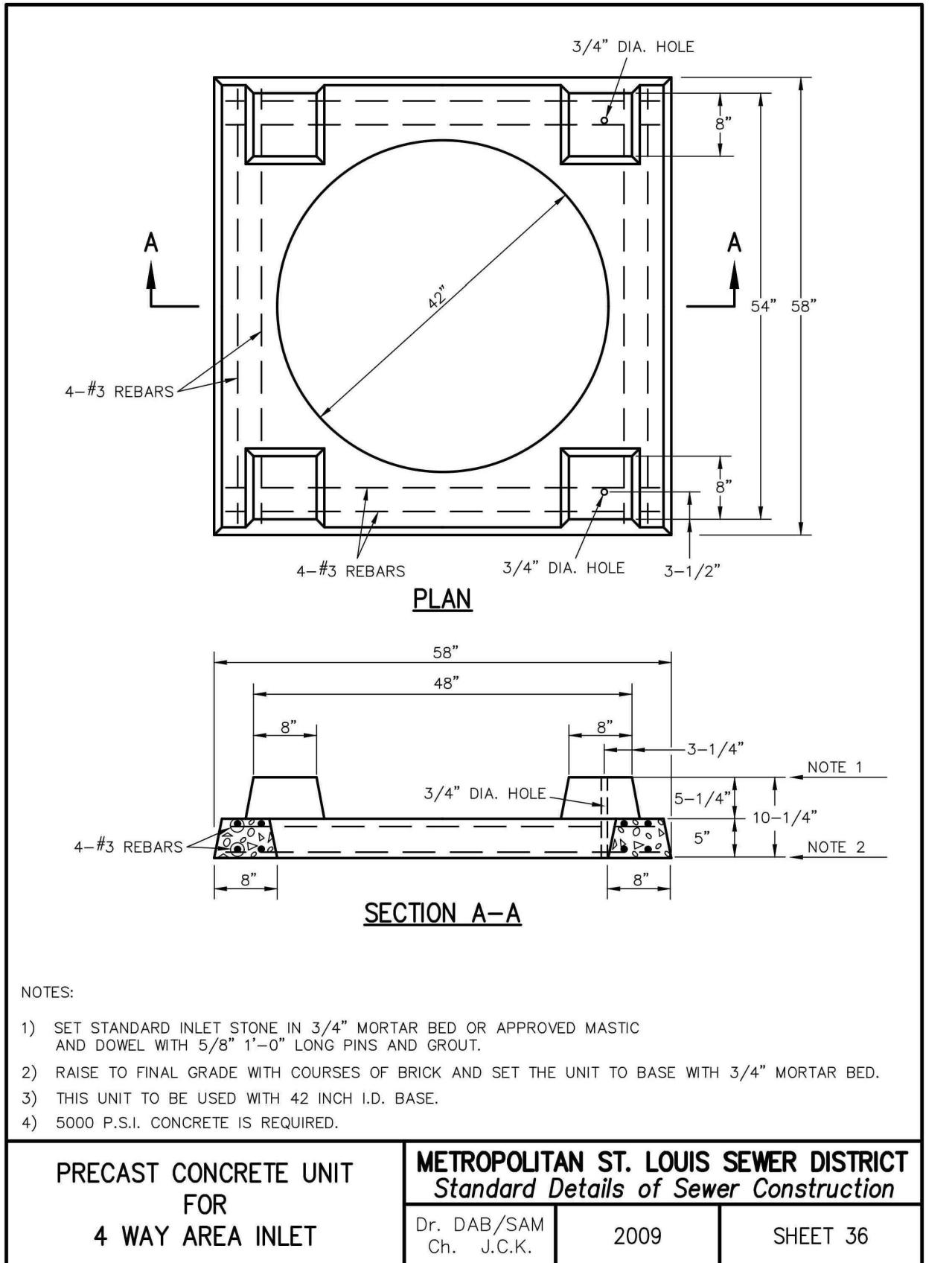
REVISIONS
10-21-25 CITY COMMENTS
11-05-25 CITY COMMENTS



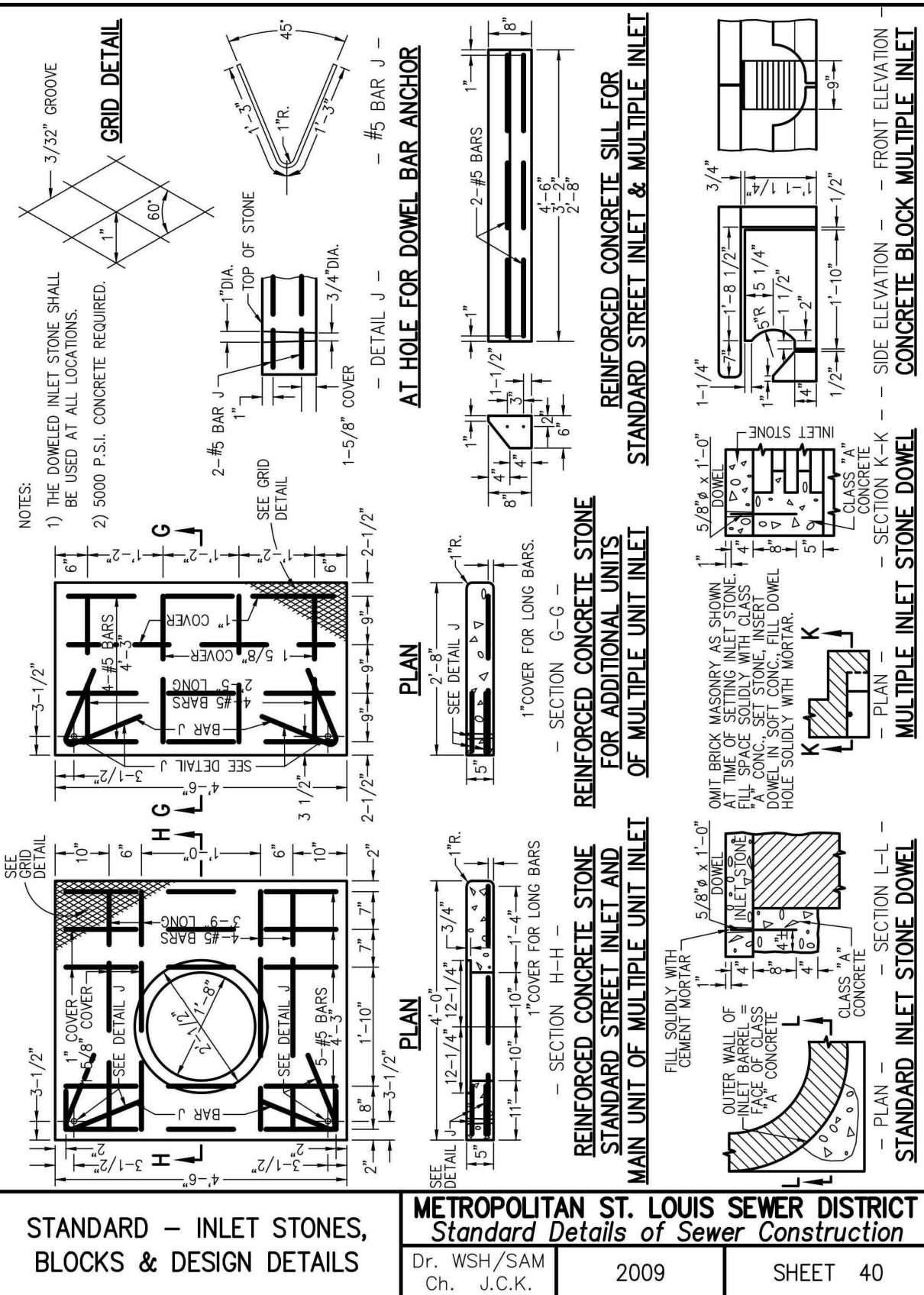
PIPE BEDDING CLASS "C"
(MODIFIED FOR REINFORCED CONCRETE PIPE)
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. Ch. J.C.K. 2009 SHEET 4



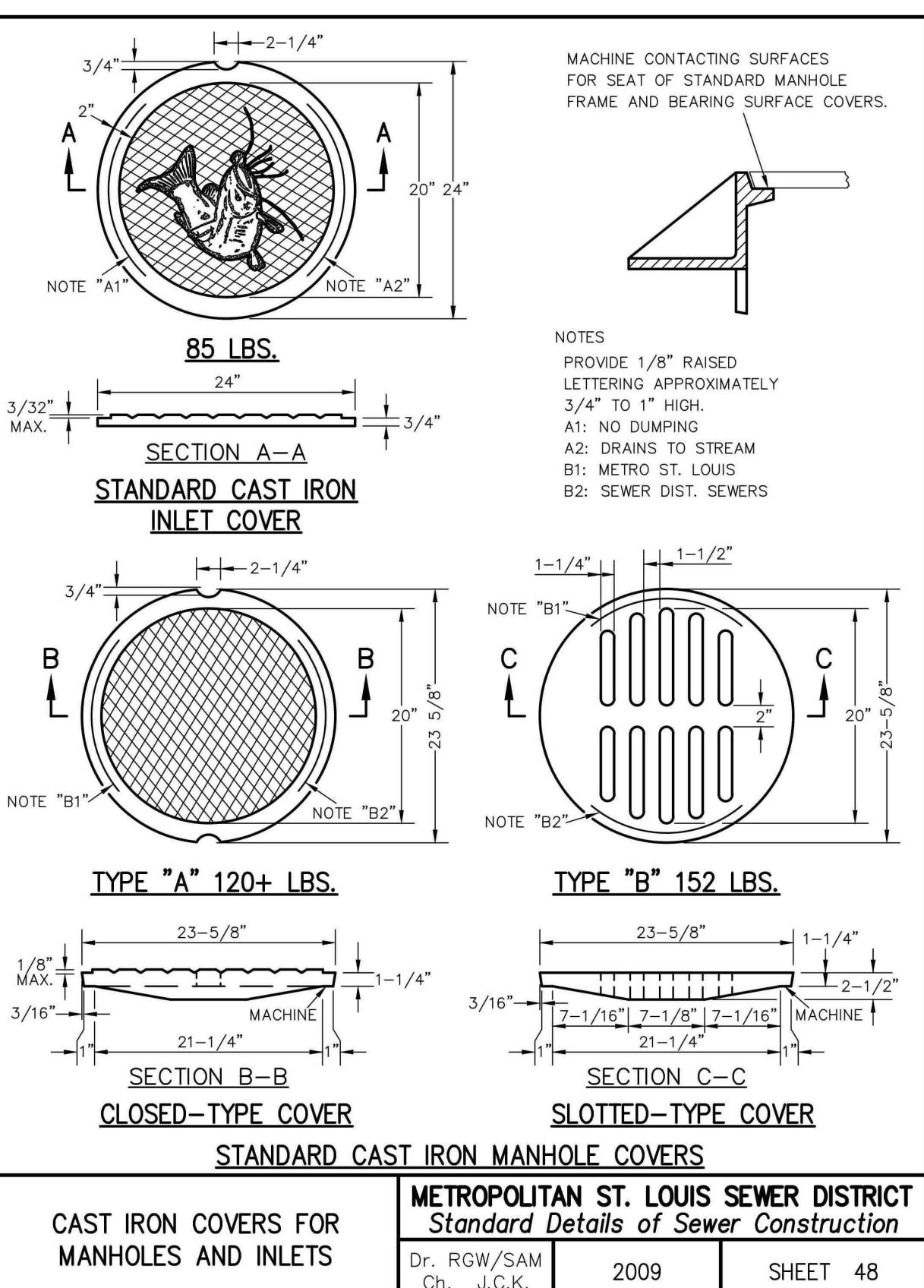
AREA INLET MANHOLE
(12" THRU 24")
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. RGW/SAM Ch. J.C.K. 2009 SHEET 25



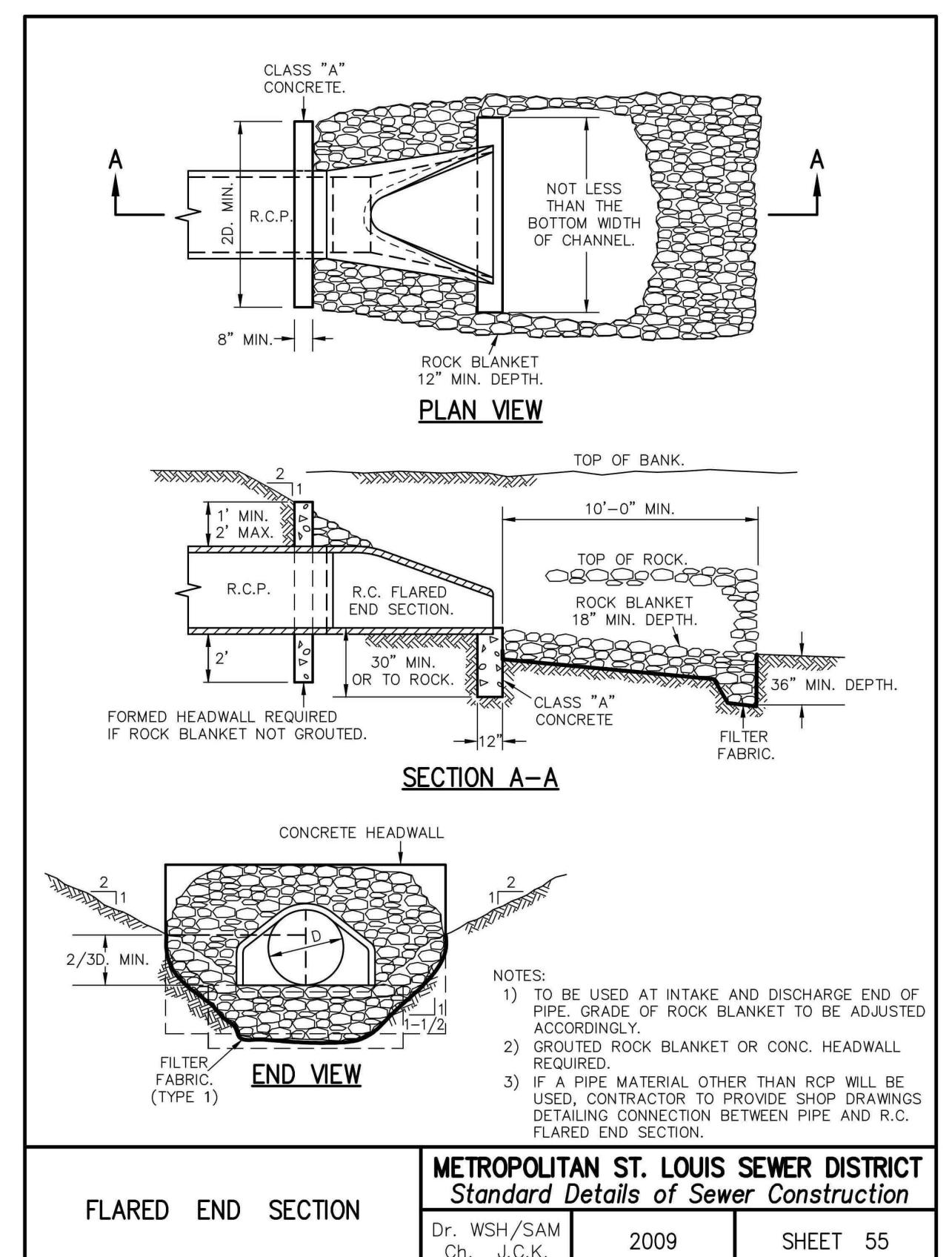
PRECAST CONCRETE UNIT
FOR 4 WAY AREA INLET
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. DAB/SAM Ch. J.C.K. 2009 SHEET 36



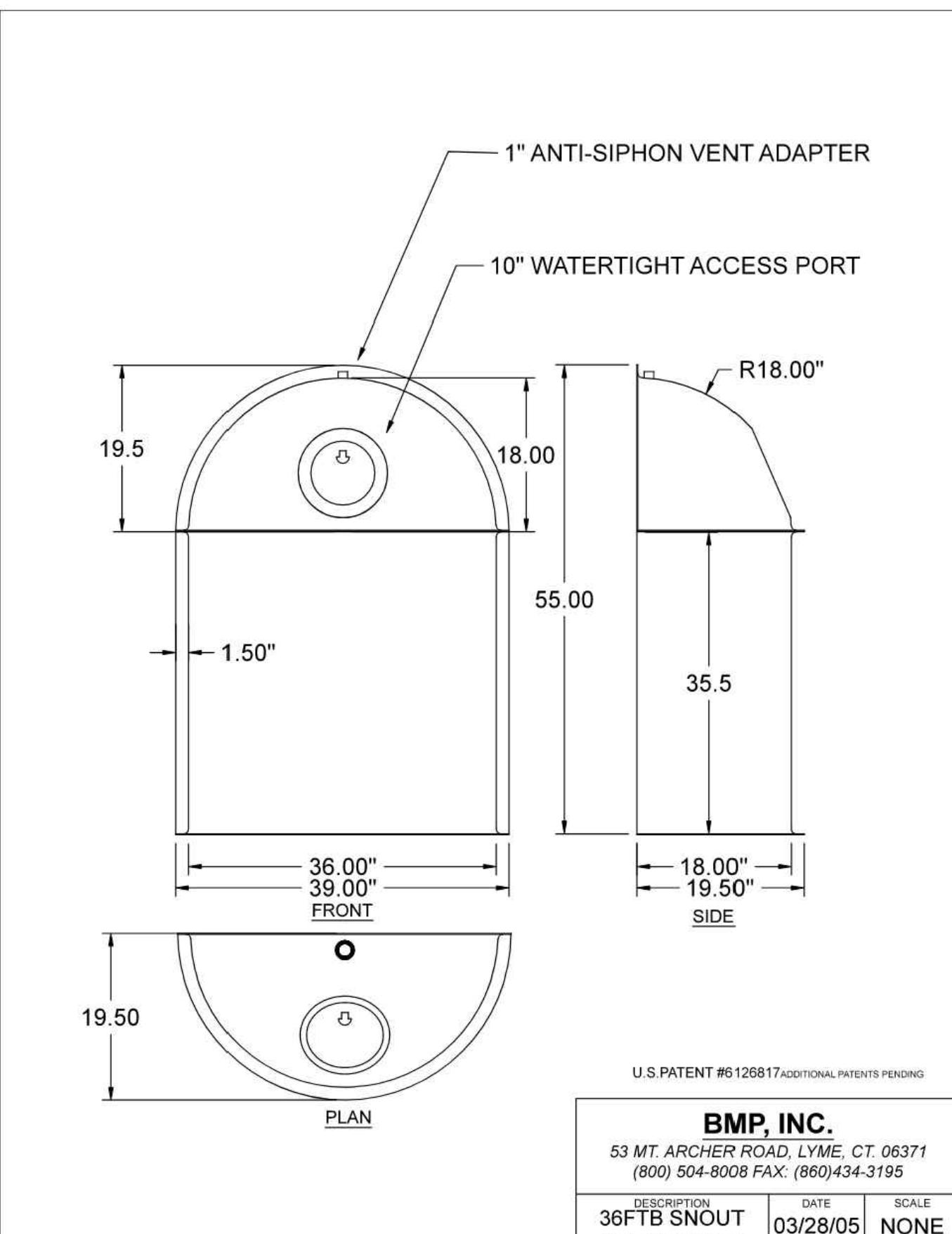
STANDARD - INLET STONES,
BLOCKS & DESIGN DETAILS
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. W.S.H. Ch. J.C.K. 2009 SHEET 40



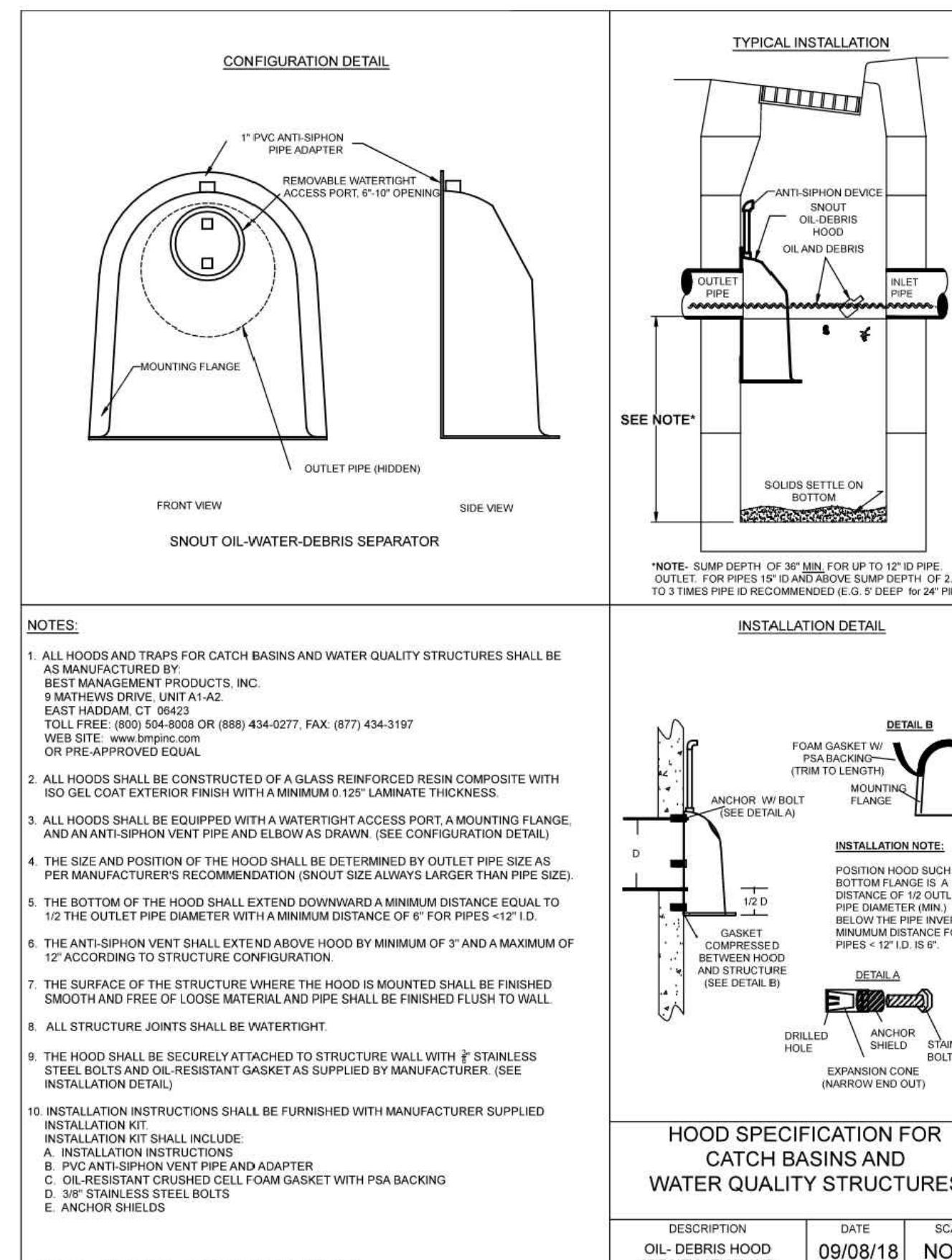
CAST IRON COVERS FOR
MANHOLES AND INLETS
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. RGW/SAM Ch. J.C.K. 2009 SHEET 48



FLARED END SECTION
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. RGW/SAM Ch. J.C.K. 2009 SHEET 55



BMP, INC.
53 MT. ARCHER ROAD, LYME, CT. 06371
(800) 504-8008 FAX: (860) 434-3195
DESCRIPTION: 36FTB SNOOT
OIL & DEBRIS STOP
DATE: 03/28/05
SCALE: NONE
DRAWING NUMBER: 36FTB



HOOD SPECIFICATION FOR
CATCH BASINS AND
WATER QUALITY STRUCTURES
DESCRIPTION: OIL-DEBRIS HOOD
SPECIFICATION AND
INSTALLATION (TYPICAL)
DATE: 09/08/18
SCALE: NONE
DRAWING NUMBER: SP-SN

Developer / Owner:
Mark Steiniger
854 Long Star Drive
Offallon, MO 63366
(636) 978-3478

P+Z No. 25-008321
Approved: 09-04-2025
City No. GR25-000007

Page No.
8 of 11

PROJECT TITLE:
GRADING PLANS FOR
Steiniger W Terra Lane
W Terra Lane
Offallon, MO 63366
Box Project #122-8603 Issue Date: 10/21/2025

ENGINEERING
PLANNING
SURVEYING

■ Point West Blvd.
St. Charles, MO 63301
636-928-5582

FAX 928-1718

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