



June 03, 2025
AVO 37449.004

Ms. Ramie Hammonds
Development Services Director/Building Official
City of Sanger
201 Bolivar Street
P.O. Box 1729
Sanger, Texas 76266

Re: Lois Road Estates Filing No. 1 Final Plat and No. 1 & 2 Construction Plans - Review #2

Dear Ms. Hammonds,

Halff was requested by the City of Sanger to review the Final Plat Filing No. 1 and Filings No. 1 & 2 Construction Plans for Lois Road Estates. The submittal was prepared by Atwell, LLC. and was received May 19, 2025.

We have completed our review and offer the following comments:

Please address comments on attached markups and provide annotated responses on markups. Please note, not all comments are written on letter since some comments are easier to show and explain on the markups. Please annotate markup with responses. Please address all Hydrology and Hydraulics comments provided in a separate letter.

Final Plat Comments

1. Clearly indicate the Point of Beginning on the plat per Ordinance § 10.104(d)(10)(D)
Response: The Point of Beginning has been shown on the plat per the ordinance.
2nd Review: Addressed
2. Show centerline of existing street. Dimensions from centerline to edges of existing and proposed right-of-way on both sides of the centerline per §10.104(d)(10)(H)(iv)
Response: The plat has been revised to show requested centerlines and dimensions.
2nd Review: Addressed
3. Show the City limit lines per ordinance § 10.104(d)(10)(Q).
Response: The City limits are now shown on the plat.
2nd Review: Addressed
4. Please clearly label all the tracts referred to in the final plat.
Response: Tract labels have been clearly labeled on the plat.
2nd Review: Addressed
5. Provide 3" x 3" recording box at the lower right-hand corner per §10.104(d)(10)(N)
Response: This has been implemented and shown on the cover sheet (page 1).
2nd Review: Provide Recording Box for all sheets

6. Provide easement for utilities through Tract C
Response: An easement has been added to Tract C.
2nd Review: Please provide easements for Utilities in Tract C
7. **2nd Review: Provide ROW acreage in title block on all sheets per §10.104(d)(10)(O)(vi)**
8. **2nd Review: Please update block numbers to ensure consistency with plans and overall utility layouts.**
9. **2nd Review: Please show pond A layout and easement as part of Filing 1 plat**
10. **2nd Review: Review and update drainage easements on Filing 1 plat to match updated grading sheets.**

General Notes and Street Sections Comments

1. The geotechnical report previously provided does not state pavement thickness, bar sizes and concrete strength. Please confirm that Ordinance § 10.106(b) Street Paving - Concrete requirements are met
Response: The Client is working with the geotechnical engineer to provide pavement design. It will be provided as soon as available.
2nd Review: Understood. Please provide and update pavement sections per Geotechnical Report once completed.

Overall Utility Layout Comments

1. Provide interim conditions until future phases are developed for Storm Drain outfall on Bexar St
Response: The storm sewer system has been revised to extend to pond "A" in the interim condition.
2nd Review: Addressed
2. Dedicate utility easements for storm drain and sanitary sewer utilities through Tract C
Response: Utilities have been added. These are now labeled on sheet 8 and has been added to the plat.
2nd Review: Easement not shown on final plat
3. Verify that there is an existing easement for outfalls through Railroad ROW
Response: This culvert is existing and does not have an easement.
2nd Review: Addressed
4. Please ensure all fire hydrants within the subdivision do not exceed a maximum of 500 ft along the fire apparatus access roadways/fire lane per § 5.701(b)
Response: Fire hydrant locations have been revised to meet this requirement.
2nd Review: Addressed
5. Show sewer and water services to individual lots
Response: Individual services have been added to each lot.
2nd Review: Please avoid keeping water and sewer services on top of one another

Grading Plan Comments

1. Show grayed out storm drain layout in grading plans
Response: The storm has been turned on and grayed out on the grading plans.
2nd Review: Addressed
2. Provide more proposed contours labels for clarity
Response: Additional contour labels have been added per comment.
2nd Review: Addressed
3. Surface runoff from residential lots shall cross no more than one additional lot before being directed toward the street or a dedicated drainage system. **When the flow reaches the second lot, side lot swales shall be in place to direct the flows to the street or to a dedicated city drainage system within an easement in the rear yard.** Furthermore, no more than one lot may drain to a second lot before the flow is directed to a street or to a dedicated city drainage system. Where lot to lot drainage occurs, the lot lines shall be aligned, and a dedicated private drainage easement shall be provided per Ordinance § 10.106(d)(12) Grading and Drainage. Please address grading per Ordinance § 10.106(d)(12). Current grading sheet flows water through more than one lot and per ordinance § 10.106(d)(12), **drainage easements are only accepted in the rear yard not the side swales.** Ensure that rear yards grades are limited to a maximum of 4:1 to allow use of lawn mowers and avoid sending flows offsite from the development. Incorporate retaining walls to contain flows on individual lots and direct flows to storm systems through side swales.
Response: The current lot grading meets the intent of this rule as the equivalent of only one (1) Type “B” lot will drain through the adjoining lot’s side lot swale.
Response (rev 5/29/25): Lot grading has been revised in the areas where Type B lots abut Type A lots. At the direction of the City, swales have been added at the back of the upstream lots to direct drainage to the lot lines of the downstream lots.
2nd Review: Sheet flow runoff from lots has been addressed. Please ensure that slopes are limited to a maximum slope of 4:1 on lots adjacent to Tract C.
4. Clarify intention for steep side lot grades, is the intent to construct exposed foundations?
Response: The grading in this area has been revised to be limited to 4:1 max.
2nd Review: Addressed
5. Provide cross sections for channels in the interim conditions showing 1ft freeboard and ensure 0.5% slope through channel per § 10.106(d)(9) Channels.
Response: Cross sections for the channel has been added per your request.
2nd Review: Addressed
6. **2nd Review: Please provide legend for retaining walls and clarify elevations shown.**
7. **2nd Review: Please ensure that rear yards of lots south of Bastrop Street drain effectively.**

Paving Plan and Profile Comments

1. Label all curb inlets and provide flow arrows depicting proposed drainage direction on paving plans

Response: Labels for curb inlets have been added per your request.

2nd Review: Please label inlets on Wood Ln

2. Please revise and update K-value and curve lengths for all vertical curves to meet the requirements of Table 4-12: Minimum K and L as a Function of A of the TxDOT Roadway Design Manual

Response: K-Values have been updated per your request.

2nd Review: Please update K-value and length of curve per Table 4-12 on STA 11+81.03 Lois Road

3. Please provide passing spaces that are 60 inches by 60 inches every 200ft for 4 ft wide sidewalks to meet ADA requirements

Response: These sidewalks are within public right-of-way where ADA guidelines do not apply. PROWAG are the applicable standards in this scenario, and therefore shall be adhered to. The requested 60"x60" passing zones are not required under PROWAG.

2nd Review: Please refer to R302.3 of PROWAG that states, "Where the clear width of pedestrian access routes is less than 60 inches (1525 mm), passing spaces shall be provided at intervals of 200 feet (61 m) maximum. Passing spaces shall be 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum. Passing spaces and pedestrian access routes are permitted to overlap."

4. show valley gutters if any on the knuckles and provide elevations to confirm drainage

Response: Valley gutters are not needed as drainage flows to and around the curb and gutter.

Please refer to the profiles below for curb flowline grades and elevations.

2nd Review: Addressed

5. Please label slopes before and after match lines

Response: The requested slope labels have been added.

2nd Review: Addressed

Sanitary Sewer Plan and Profile Comments

1. Ensure that horizontal separation between water and wastewater is atleast 9 ft in all directions to meet TCEQ minimum horizontal separation requirements on Wood Lane

Response: Horizontal separations have been revised to meet the 9' minimum.

2nd Review: Addressed

2. In those cases where horizontal curvature must be utilized to serve a particular area, the minimum radius of curvature shall be one hundred feet (100') per § 10.106(f)(1)(D)(i). Please label all curved sewer pipes and ensure they meet the minimum requirements

Response: The curved sewer pipe has been labeled with a radius of at or greater than 100'.

2nd Review: Addressed

3. Provide easements for sanitary sewer where necessary as shown in the markups

Response: Easements have been added as requested.

2nd Review: Please refer to plat comments

4. Show crossings with other utilities for example storm drains and water lines and maintain 2 ft vertical clearances
Response: Vertical clearances have been added and updated.
2nd Review: Please refer to plan markups
5. Please show sewer services to individual lots
Response: Sewer services have been added to individual lots.
2nd Review: Please refer to overall utility layout comments
6. **2nd Review: Why is a 12" PVC feeding into an 8" PVC and then a 15" PVC on the intersection of Wood Ln and Warton St? Please upsize 8" to either 12" or 15" PVC on Run 5**

Drainage Area and Hydraulic Computations Comments

1. Provide existing and proposed drainage area maps
Response: Existing and proposed drainage maps have been added as requested.
2nd Review: Please update proposed drainage area map per updated grading plans and provide drainage areas at a scale smaller than 750 for easier visibility
2. Turn on storm drain layout on proposed drainage area maps along with proposed grading to verify proposed drainage areas
Response: The storm layout is shown on the drainage maps as requested.
2nd Review: Addressed
3. Tabulate results of inlet calculations and hydraulic computations for proposed storm systems and provide depth of flow at inlet openings column on all inlet calculations
Response: Hydraulic calcs have been updated as requested.
2nd Review: Provide Hydraulic calculations for laterals and ensure Maximum velocity in the pipe shall not exceed 12 feet per second per § 10.106(d)(6)(B)(ii)
4. **2nd Review: Please provide legend to define parameters and update C factors per §10.106(d)(2)(D)(i)**
5. **2nd Review: Ensure numbers in existing drainage area match with existing drainage area calculations table**

Storm Sewer Plan and Profile Comments

1. Provide flow boxes showing flows, pipe capacity, friction slope, velocity and velocity head for each pipe segment. Specify partial flow segments as well
Response: Flow boxes have been added as requested.
2nd Review: Provide flow table for Run 3-2
2. Provide flow lines every 50ft on the storm profiles
Response: Flow lines have been added at 50' intervals as requested.
2nd Review: Repeat Comment. Provide flow lines every 50ft on the storm profiles
3. Provide profiles for all storm laterals and ensure that flow boxes are included on the profiles and HGL shall be not less than 1ft from the existing surface

Response: Storm laterals have been added to the plan set as requested.

2nd Review: Addressed

4. The minimum velocities in conduit shall be 2.5 feet per second and the Maximum velocity in the pipe shall not exceed 12 feet per second in all storm drain pipe segments per §10.106(d)(6)(B)

Response: Velocities have been shown and meet minimum and maximum criteria.

2nd Review: Please review and revise pipe segments that do not meet the velocity requirements. Requirements can be achieved through combining drainage areas or increasing slopes as needed.

5. show outfall structures along with energy dissipators in the storm profiles

Response: Energy dissipation calculations have been added to the set as requested.

2nd Review: Addressed

6. show storm laterals in profile view clearly

Response: Storm laterals have been added to the plan set as requested.

2nd Review: Please show the laterals in the profile view per markup comments

7. Please show and account for minor losses in the HGL through system

Response: HGLs have been updated to account for minor losses.

2nd Review: Minor losses are supposed to happen at the bends, junction boxes, wyes and inlets as opposed to in the middle of the pipe segments. Please revise HGL's and hydraulic calculations accordingly

8. Please avoid using curb inlets as manholes. Revise storm alignments and eliminate curb inlets from main lines

Response: Storm alignments have been updated to remove inlets as junctions as requested.

2nd Review: Addressed

9. Please verify basis of all starting WSEL's and ensure consistency with pond WSEL's.

Recommend using the higher of either pond WSEL or top of pipe for hydraulic calculations

Response: Hydraulic calculations have been updated as requested.

2nd Review: Addressed

10. Please show headwater and tail water for culvert across Lois Road and provide energy dissipators at outfall

Response: Headwater has been shown. We are working to obtain the tailwater depth in the receiving ditch.

2nd Review: Understood. Please provide tailwater depth in the receiving ditch when information is available.

11. Show all water and sewer line crossings with storm drain and ensure 2ft minimum vertical clearance is observed

Response: Crossings have been added and shown as requested.

2nd Review: Please review all crossings per markups and show utility crossings for all laterals

12. Please check all junction box configurations and ensure that proposed pipes will fit in proposed junction boxes depending on alignments.

Response: Junction boxes have been updated to ensure pipes will fit.



- 2nd Review: 54" storm can not fit into 48" box on Run 3-2. Please update accordingly
13. 2nd Review: The hydraulic grade line shall in no case be closer to the surface of the ground or street than one (1) foot per § 10.106(d)(6)(D)(ii)
14. 2nd Review: Please provide storm drain pipe sizes and grade labels
15. 2nd Review: Where does the 24" lateral close to the intersection of Lois Rd and Jack St flow to if its flow line is lower than that of the junction box that eventually outfalls into the pond?
16. 2nd Review: Minimum sizes of laterals shall be 18 inches for use with 5-foot inlets, 21-inch laterals with 10-foot, 15 foot, and drop inlets and 24-inch laterals for 20-foot inlets per § 10.106(d)(5)(C)
17. 2nd Review: Provide HGL's for all laterals to confirm there is no surcharge at inlets
18. 2nd Review: Provide flow boxes for all laterals

Pond Comments

1. Provide an access ramp or a 10ft recovery ledge at 2% slope around all ponds to facilitate maintenance requirements stipulated in § 10.106(d)(10)(H)
Response: Access ramps have been added as requested.
2nd Review: Addressed
2. Provide Pond cross sections and ensure 2ft sediment storage and 1 ft freeboard requirements are met
Response: Pond cross sections have been added as requested.
2nd Review: WSE elevation for pond A IS 696.49ft and top of pond is 699 which translates to 2.5 ft difference, please confirm that the 3ft required for both sediment storage and freeboard are met.

If you have any questions or need additional information, please do not hesitate to call me at (817) 764-7498.

Sincerely,

A handwritten signature in blue ink, appearing to read "Samson Lotigo", with a stylized flourish at the end.

Samson Lotigo, PE

HALFF

Firm No. 0312

Attachments: Final Plat and Construction Plan markups

CERTIFICATION OF OWNERSHIP:

STATE OF TEXAS
COUNTY OF DENTON

I (WE), THE UNDERSIGNED, OWNER(S) OF THE LAND SHOWN ON THIS PLAT WITHIN THE AREA DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

LEGAL DESCRIPTION:

BEING A 48.189 ACRE TRACT OF LAND (2,099,130 SQUARE FEET), SITUATED IN THE REUBEN BEBEE SURVEY, ABSTRACT NUMBER 29, SITUATED IN THE CITY OF SANGER, DENTON COUNTY, TEXAS, AND BEING A PORTION OF THAT CERTAIN 202.49 ACRE TRACT OF LAND DESCRIBED IN A GENERAL WARRANTY DEED CONVEYED TO JST HOLDINGS 04 BUSINESS, LLC, A NEW MEXICO LIMITED LIABILITY COMPANY, RECORDED IN DOCUMENT NUMBER 2024-74411 OF THE OFFICIAL RECORDS OF DENTON COUNTY, TEXAS; SAID 48.189 ACRE TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A MAG NAIL FOUND, BEING THE NORTHWESTERN CORNER OF SAID JST HOLDINGS 202.49 ACRE TRACT, BEING ON OR NEAR THE CENTERLINE OF LOIS ROAD EAST AND ON THE EASTERN RIGHT-OF-WAY LINE OF THE GULF COAST AND SANTA FE RAILROAD, (100' RIGHT-OF-WAY WIDTH), FOR THE NORTHWESTERN CORNER AND POINT OF BEGINNING OF THE HEREIN DESCRIBED TRACT;

THENCE, ALONG THE NORTHERN LINE OF SAID JST HOLDINGS 202.49 ACRE TRACT, DEPARTING THE EASTERN RIGHT-OF-WAY LINE OF SAID GULF COAST AND SANTA FE RAILROAD, AND ALONG OR NEAR THE CENTERLINE OF SAID LOIS ROAD EAST, S89°32'19"E, A DISTANCE OF 689.60 FEET TO A MAG NAIL SET, FOR A NORTHERN ANGLE CORNER OF THE HEREIN DESCRIBED TRACT;

THENCE, CONTINUING ALONG SAID NORTHERN LINE OF JST HOLDINGS 202.49 ACRE TRACT AND ALONG OR NEAR SAID CENTERLINE OF LOIS ROAD EAST, S89°22'38"E, A DISTANCE OF 1420.42 FEET TO MAG NAIL SET, BEING THE SOUTHWESTERN CORNER OF A CALLED 1.798 ACRE TRACT DESCRIBED IN A DEED CONVEYED TO JODY ROBERT, RECORDED IN DOCUMENT NUMBER 2006-17710 OF THE OFFICIAL RECORDS OF DENTON COUNTY, TEXAS, AND ALSO BEING IN THE WESTERN RIGHT-OF-WAY LINE OF MELTON ROAD (30' RIGHT-OF-WAY WIDTH);

THENCE, CONTINUING ALONG SAID NORTHERN LINE OF JST HOLDINGS 202.49 ACRE TRACT AND ALONG OR NEAR SAID CENTERLINE OF LOIS ROAD, S89°07'42"E, A DISTANCE OF 453.34 FEET TO A MAG NAIL SET, BEING THE NORTHEASTERN CORNER OF SAID JST HOLDINGS 202.49 ACRE TRACT, AND ALSO BEING THE NORTHWESTERN CORNER OF A CALLED 15.00 ACRE TRACT DESCRIBED IN A DEED CONVEYED TO MILDRED E. HUNT, RECORDED IN DOCUMENT NUMBER 2019-5766 OF THE OFFICIAL RECORDS OF DENTON COUNTY, TEXAS, FOR THE NORTHEASTERN CORNER OF THE HEREIN DESCRIBED TRACT;

THENCE, ALONG THE EASTERN LINE OF SAID JST HOLDINGS 202.49 ACRE TRACT, AND ALSO BEING THE WESTERN LINE OF SAID HUNT 15.00 ACRE TRACT, S01°11'12"W, A DISTANCE OF 40.00 FEET TO A CALCULATED POINT, FOR A NORTHEASTERN CORNER OF THE HEREIN DESCRIBED TRACT;

THENCE, ALONG THE SOUTHERN RIGHT-OF-WAY LINE OF SAID LOIS ROAD, THE FOLLOWING TWO (2) COURSES AND DISTANCES:

1. N89°07'42"W, A DISTANCE OF 453.04 FEET TO A CALCULATED POINT;
2. N89°22'38"W, A DISTANCE OF 81.66 FEET TO A CALCULATED POINT;

THENCE, CROSSING THROUGH SAID JST HOLDINGS 202.49 ACRE TRACT, THE FOLLOWING THIRTY-FIVE (33) COURSES AND DISTANCES:

1. S45°54'17"W, A DISTANCE OF 20.33 FEET TO A CALCULATED POINT;
2. S01°11'12"W, A DISTANCE OF 701.61 FEET TO A CALCULATED POINT;
3. S43°48'48"E, A DISTANCE OF 18.38 FEET TO A CALCULATED POINT;
4. S01°11'12"W, A DISTANCE OF 50.00 FEET TO A CALCULATED POINT;
5. N88°48'48"W, A DISTANCE OF 736.00 FEET TO A CALCULATED POINT;
6. S46°11'12"W, A DISTANCE OF 18.38 FEET TO A CALCULATED POINT;
7. S01°11'12"W, A DISTANCE OF 12.00 FEET TO A CALCULATED POINT;
8. S88°48'48"E, A DISTANCE OF 120.00 FEET TO A CALCULATED POINT;
9. S01°11'12"W, A DISTANCE OF 302.71 FEET TO A CALCULATED POINT, AT A POINT OF CURVATURE TO THE RIGHT;
10. WITH SAID CURVE TO THE RIGHT, HAVING A RADIUS OF 1045.00 FEET, AN ARC LENGTH OF 198.49 FEET, A CENTRAL ANGLE OF 10°52'58", A CHORD BEARING AND DISTANCE OF S06°37'41"W, 198.19 FEET TO A CALCULATED POINT;
11. N88°48'48"W, A DISTANCE OF 122.49 FEET TO A CALCULATED POINT, AT A POINT OF CURVATURE TO THE RIGHT;
12. WITH SAID CURVE TO THE RIGHT, HAVING A RADIUS OF 925.00 FEET, AN ARC LENGTH OF 252.99 FEET, A CENTRAL ANGLE OF 15°40'15", A CHORD BEARING AND DISTANCE OF S21°20'15"W, 252.21 FEET TO A CALCULATED POINT;
13. S29°10'22"W, A DISTANCE OF 51.40 FEET TO A CALCULATED POINT;
14. S15°43'38"E, A DISTANCE OF 18.38 FEET TO A CALCULATED POINT;
15. S29°10'22"W, A DISTANCE OF 50.00 FEET TO A CALCULATED POINT, FOR THE SOUTHERNMOST CORNER OF THE HEREIN DESCRIBED TRACT;
16. N60°49'38"W, A DISTANCE OF 290.00 FEET TO A CALCULATED POINT;
17. S74°10'22"W, A DISTANCE OF 18.38 FEET TO A CALCULATED POINT;
18. N61°04'15"W, A DISTANCE OF 50.00 FEET TO A CALCULATED POINT;
19. N16°30'14"W, A DISTANCE OF 18.60 FEET TO A CALCULATED POINT;
20. N29°50'40"E, A DISTANCE OF 50.03 FEET TO A CALCULATED POINT;
21. N73°33'27"E, A DISTANCE OF 18.17 FEET TO A CALCULATED POINT;
22. N29°19'49", A DISTANCE OF 4.26 FEET TO A CALCULATED POINT, AT A POINT OF CURVATURE TO THE LEFT;
23. WITH SAID CURVE TO THE RIGHT, HAVING A RADIUS OF 775.00 FEET, AN ARC LENGTH OF 2.93 FEET, A CENTRAL ANGLE OF 00°12'59", A CHORD BEARING AND DISTANCE OF N29°03'52"E, 2.93 FEET TO A CALCULATED POINT;
24. WITH SAID CURVE TO THE LEFT, HAVING A RADIUS OF 845.00 FEET, AN ARC LENGTH OF 130.34 FEET, A CENTRAL ANGLE OF 08°50'16", A CHORD BEARING AND DISTANCE OF N65°35'08"W, 130.21 FEET TO A CALCULATED POINT;
25. N15°32'17"E, A DISTANCE OF 241.45 FEET TO A CALCULATED POINT;
26. N05°43'32"E, A DISTANCE OF 281.10 FEET TO A CALCULATED POINT;
27. N00°40'28"E, A DISTANCE OF 50.96 FEET TO A CALCULATED POINT;
28. N88°48'48"W, A DISTANCE OF 127.72 FEET TO A CALCULATED POINT;
29. N01°11'12"E, A DISTANCE OF 12.00 FEET TO A CALCULATED POINT;
30. N88°48'48"W, A DISTANCE OF 50.00 FEET TO A CALCULATED POINT;
31. N43°48'48"W, A DISTANCE OF 18.38 FEET TO A CALCULATED POINT;
32. N88°48'48"W, A DISTANCE OF 34.56 FEET TO A CALCULATED POINT, AT A POINT OF CURVATURE TO THE LEFT;
33. WITH SAID CURVE TO THE LEFT, HAVING A RADIUS OF 125.00 FEET, AN ARC LENGTH OF 9.78 FEET, A CENTRAL ANGLE OF 04°29'03", A CHORD BEARING AND DISTANCE OF S88°56'41"W, 9.78 FEET TO A CALCULATED POINT;
34. S86°42'09"W, A DISTANCE OF 94.19 FEET TO A CALCULATED POINT, AT A POINT OF CURVATURE TO THE RIGHT;
35. WITH SAID CURVE TO THE RIGHT, HAVING A RADIUS OF 175.00 FEET, AN ARC LENGTH OF 40.66 FEET, A CENTRAL ANGLE OF 13°18'42", A CHORD BEARING AND DISTANCE OF N86°38'30"W, 40.57 FEET TO A CALCULATED POINT;
36. N79°59'09"W, A DISTANCE OF 394.52 FEET TO A CALCULATED POINT;
37. N10°00'51"E, A DISTANCE OF 75.00 FEET TO A CALCULATED POINT;
38. N79°59'09"W, A DISTANCE OF 165.00 FEET TO A CALCULATED POINT, BEING IN THE WESTERN LINE OF SAID JST HOLDINGS 202.49 ACRE TRACT, AND ALSO BEING IN THE EASTERN LINE OF SAID SANTA FE RAILROAD;

THENCE, ALONG SAID EASTERN LINE OF JST HOLDINGS 202.49 ACRE TRACT AND ALONG SAID EASTERN LINE OF SANTA FE RAILROAD, N10°00'51"E, A DISTANCE OF 651.10 FEET TO THE POINT OF BEGINNING.

CONTAINING 48.189 ACRES (2,099,130 SQUARE FEET), MORE OR LESS.

SAVE & EXCEPT:

BEING A 9.42 ACRE TRACT (410,335 SQUARE FEET) OF LAND, SITUATED IN THE REUBEN BEBEE SURVEY, ABSTRACT NUMBER 29, SITUATED IN THE CITY OF SANGER, DENTON COUNTY, TEXAS, AND BEING A PORTION OF THAT CERTAIN 202.49 ACRE TRACT OF LAND DESCRIBED IN A GENERAL WARRANTY DEED CONVEYED TO JST HOLDINGS 04 BUSINESS, LLC, A NEW MEXICO LIMITED LIABILITY COMPANY, RECORDED IN DOCUMENT NUMBER 2024-74411 OF THE OFFICIAL RECORDS OF DENTON COUNTY, TEXAS; SAID 48.189 ACRE TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A 1/2 INCH IRON ROD WITH CAP STAMPED "ATWELL, LLC" SET IN CONCRETE, BEING IN THE NORTHERN LINE OF SAID 202.49 ACRE TRACT AND ALSO BEING IN THE SOUTHERN RIGHT-OF-WAY LINE OF LOIS ROAD EAST, FOR THE NORTHWESTERN CORNER AND POINT OF BEGINNING OF THE HEREIN DESCRIBED TRACT;

THENCE, CONTINUING ALONG SAID NORTHERN LINE OF 202.49 ACRE TRACT AND SAID SOUTHERN RIGHT-OF-WAY LINE OF LOIS ROAD EAST, S89°22'38"E, A DISTANCE OF 551.33 FEET TO A CALCULATED POINT, FOR THE NORTHEASTERN CORNER OF THE HEREIN DESCRIBED TRACT;

THENCE, CROSSING THROUGH SAID 202.49 ACRE TRACT, THE FOLLOWING FIVE (5) COURSES AND DISTANCES:

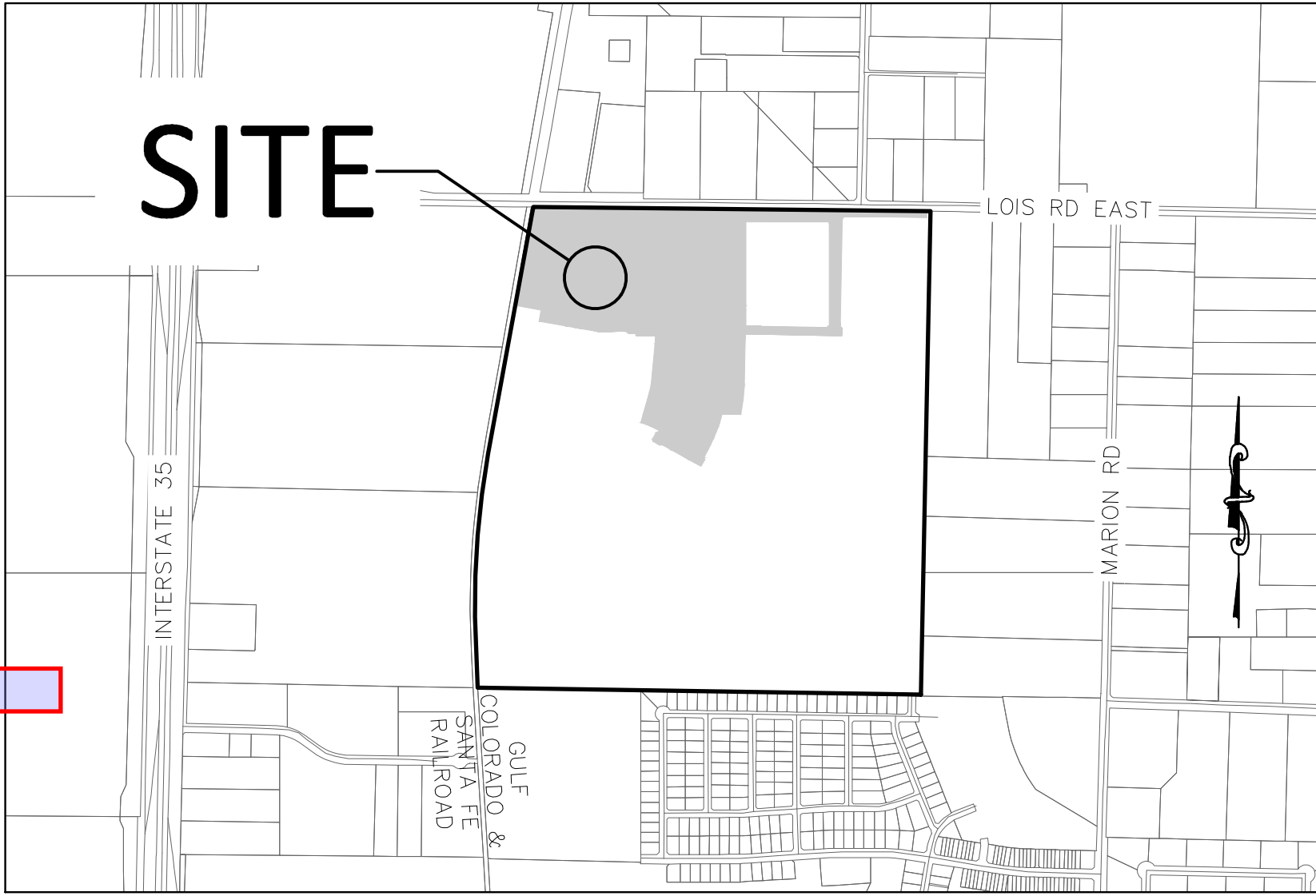
1. S44°05'43"E, A DISTANCE OF 20.68 FEET TO A CALCULATED POINT;
2. S01°11'12"W, A DISTANCE OF 700.74 FEET TO A CALCULATED POINT;
3. S46°11'12"E, A DISTANCE OF 18.38 FEET TO A CALCULATED POINT;
4. N88°48'48"W, A DISTANCE OF 553.00 FEET TO A CALCULATED POINT;
5. N01°11'12"E, A DISTANCE OF 722.86 FEET TO THE POINT OF BEGINNING.

CONTAINING 9.42 ACRES (410,335 SQUARE FEET), MORE OR LESS.

SUBJECT PARCEL NET ACREAGE: 38.769 ACRES (1,688,778 SQUARE FEET), MORE OR LESS.

LOIS ROAD ESTATES SUBDIVISION PLAT FILING NO. 1

BEING 38.769 ACRES OF LAND (1,688,778 SQUARE FEET)
OUT OF THE REUBEN BEBEE SURVEY, ABSTRACT NUMBER 29
IN THE CITY OF SANGER, DENTON COUNTY, TEXAS



VICINITY MAP
NTS

NOW, THEREFORE, KNOW ALL PERSONS BY THESE PRESENTS: THAT, ACTING HEREIN BY AND THROUGH ITS DULY AUTHORIZED OFFICER, DOES HEREBY ADOPT THIS PLAT DESIGNATING THE HEREIN ABOVE DESCRIBED PROPERTY AS LOIS ROAD ESTATES SUBDIVISION, AN ADDITION TO THE CITY OF SANGER, TEXAS, AND DOES HEREBY DEDICATE TO THE PUBLIC USE FOREVER BY FEE SIMPLE TITLE, FREE AND CLEAR OF ALL LIENS AND ENCUMBRANCES, ALL STREETS, THOROUGHFARES, ALLEYS, FIRE LANES, DRIVE AISLES, PARKS, AND WATERCOURSES, AND TO THE PUBLIC USE FOREVER EASEMENTS FOR SIDEWALKS, STORM DRAINAGE FACILITIES, UTILITIES AND ANY OTHER PROPERTY NECESSARY TO SERVE THE PLAT AND TO IMPLEMENT THE REQUIREMENTS OF THE SUBDIVISION REGULATIONS AND OTHER CITY CODES AND DO HEREBY BIND OURSELVES, OUR HEIRS, SUCCESSORS AND ASSIGNS TO WARRANT AND TO FOREVER DEFEND THE TITLE ON THE LAND SO DEDICATED. FURTHER, THE UNDERSIGNED COVENANTS AND AGREES THAT HE/SHE SHALL MAINTAIN ALL EASEMENTS AND FACILITIES IN A STATE OF GOOD REPAIR AND FUNCTIONAL CONDITION AT ALL TIMES IN ACCORDANCE WITH CITY CODES AND REGULATIONS. NO BUILDINGS, FENCES, TREES, SHRUBS, OR OTHER IMPROVEMENTS OR GROWTHS SHALL BE CONSTRUCTED OR PLACED UPON, OVER, OR ACROSS THE EASEMENTS AS SHOWN, EXCEPT THAT LANDSCAPE IMPROVEMENTS MAY BE INSTALLED, IF APPROVED BY THE CITY OF SANGER. THE CITY OF SANGER AND PUBLIC UTILITY ENTITIES SHALL HAVE THE RIGHT TO ACCESS AND MAINTAIN ALL RESPECTIVE EASEMENTS WITHOUT THE NECESSITY AT ANY TIME OF PROCURING PERMISSION FROM ANYONE.

WITNESS MY HAND THIS DAY OF , 20 ,

, OWNER

, TITLE AND COMPANY

STATE OF TEXAS
COUNTY OF DENTON

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT HE/SHE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED AND IN THE CAPACITY THEREIN STATED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS DAY OF , 20 ,

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

TYPE OR PRINT NOTARY'S NAME

MY COMMISSION EXPIRES

BENCHMARKS AND CONTROLS:

NO. 1 - AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

NO. 2 - AN MAG NAIL IN ASPHALT LOCATED IN THE NORTHWEST INTERSECTION OF LOIS ROAD EAST AND MELTON ROAD, HAVING AN ELEVATION OF 693.8 FEET, A NORTHING COORDINATE VALUE OF 7,192,151.4, AND AN EASTING COORDINATE VALUE OF 2,376,790.5.

BASIS OF BEARING:

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL ZONE, NAVD 88.

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
01	COVER SHEET
02	OVERALL SHEET
03	FINAL PLAT
04	FINAL PLAT
05	FINAL PLAT

AREA TABLE			LAND USE	OWNER/MAINTENANCE
TRACT NAME	AREA (SF)	AREA (AC)		
TRACT A	39525	0.91	OPEN SPACE, DRAINAGE, UTILITIES	OWNER/HOA
TRACT B	34962	0.80	OPEN SPACE	OWNER/HOA
TRACT C	7189	0.17	OPEN SPACE, UTILITIES	OWNER/HOA
TRACT D	5879	0.13	OPEN SPACE	OWNER/HOA
TRACT E	6206	0.14	OPEN SPACE	OWNER/HOA
TRACT F	5831	0.13	OPEN SPACE	OWNER/HOA
TRACT G	4679	0.11	OPEN SPACE	OWNER/HOA
TRACT H	16789	0.39	OPEN SPACE	OWNER/HOA
TOTAL	120,904	2.77		

OWNER:
HOA:

JST HOLDINGS 04 BUSINESS LLC
LOIS ROAD ESTATES

PROJECT TEAM

OWNER/DEVELOPER/APPLICANT:

KALTER CAPITAL
10268 W. CENTENNIAL RD., UNIT 200 F
LITTLETON, CO 80127
CONTACT: LEE EISENHEIM
PH: 303.324.1771
LEE.EISENHEIM@KALTERCAPITAL.COM

ENGINEERING & SURVEY:

ATWELL, LLC
143 UNION BOULEVARD SUITE 700
LAKEWOOD, CO 80228
CONTACT: KEVIN BLUMHARDT
PH: 303.842.9191
KBLUMHARDT@ATWELL.COM

RESIDENTIAL LOT INFORMAITON	
LOT SIZE	NUMBER OF LOTS
50'	36
60'	119
TOTAL	155

GENERAL NOTES

1. ALL LOTS COMPLY WITH THE MINIMUM SIZE REQUIREMENTS OF THE PLANNED DEVELOPMENT.
2. THIS PROPERTY MAY BE SUBJECT TO CHARGES RELATED TO IMPACT FEES AND THE APPLICANT SHOULD CONTACT THE CITY REGARDING ANY APPLICABLE FEES DUE.
3. ALL COMMON AREAS, DRAINAGE EASEMENTS, AND DETENTION FACILITIES WILL BE OWNED AND MAINTAINED BY THE HOA/POA. ANY COMMON AREA WITHIN THE CITY'S RIGHT-OF-WAY WILL REQUIRE A FACILITIES AGREEMENT, TO BE REVIEWED AND APPROVED BY THE CITY.
4. NOTICE - SELLING A PORTION OF THIS BY METES AND BOUNDS IS A VIOLATION OF CITY ORDINANCE AND STATE LAW AND IS SUBJECT TO FINES AND WITHHOLDING OF UTILITIES AND BUILDING PERMITS.
5. THIS PLAT DOES NOT ALTER OR REMOVE EXISTING DEED RESTRICTIONS, IF ANY, ON THIS PROPERTY.
6. MINIMUM FINISHED FLOOR ELEVATIONS ARE AT LEAST 2 FEET ABOVE THE 100 YEAR FLOOD PLAIN.
7. THE SUBJECT PROPERTY DOES NOT LIE WITHIN A 100 - YEAR FLOODPLAIN ACCORDING TO COMMUNITY PANEL NO. 48121C0070G, DATED APRIL 18, 2011, OF THE NATIONAL FLOOD INSURANCE RATE MAPS FOR DENTON COUNTY, TEXAS.
8. THE PURPOSE OF THIS PLAT IS TO CREATE NEW FOR SALE SINGLE-FAMILY LOTS.
9. BEARINGS ARE BASED ON THE STATE PLANE COORDINATE SYSTEM, TEXAS NORTH CENTRAL ZONE (4202), NORTH AMERICAN DATUM OF 1983 (NAD '83)
10. UTILITIES SERVICE PROVIDED BY
CITY OF SANGER - WATER & SANITARY SEWER
ADDRESS: P.O. BOX 1729, SANGER, TEXAS 76266
CONTACT: JIM BOLZ
PHONE NUMBER: (940) 458-2571

COSERV - ELECTRIC AND GAS
ADDRESS: 202 RAILROAD AVE, SANGER, TEXAS 76266
PHONE NUMBER: (800) 274-4014

SURVEYOR CERTIFICATE

I, RANDALL R. HAGER, A DULY LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT THIS FINAL PLAT REPRESENTS THE RESULT OF A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION AND COMPLETED ACCORDING TO APPLICABLE STATE OF TEXAS REQUIREMENTS.

RANDALL R. HAGER, RPLS NO. 6471
FOR AND ON BEHALF OF ATWELL, LLC

APPROVED AND ACCEPTED

CHAIRMAN, PLANNING & ZONING COMMISSION
CITY OF SANGER, TX

DATE

MAYOR
CITY OF SANGER, TX

DATE

ATTESTED BY

CITY SECRETARY
CITY OF SANGER, TX

DATE

RECORDING BOX



OWNER/DEVELOPER/APPLICANT
KALTER CAPITAL
10268 W. CENTENNIAL
RD. UNIT 200 F
LITTLETON, CO
303-324-1771
LEE EISENHEIM

PLAT FILING NO. 1
LOIS ROAD ESTATES SUBDIVISION
155 RESIDENTIAL LOTS - 6 HOA LOTS
REUBEN BEBEE SURVEY, ABST. NO. 29
38.769 ACRES - 1,688,778 SQUARE FEET
CITY OF SANGER, DENTON COUNTY TEXAS

DATE 02/28/2025

A 1st SUBMITTAL TO CITY OF
SANGER 02/28/2025 - KB
B 2nd SUBMITTAL TO CITY OF
SANGER 02/28/2025 - KB

REVISIONS

DR. TN CH. AS

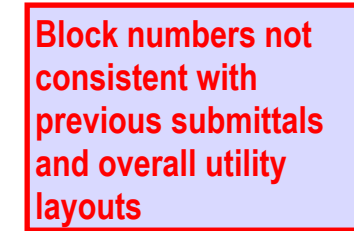
P.M. RG

JOB 240007256

SHEET 01 OF 5

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this description is
for.

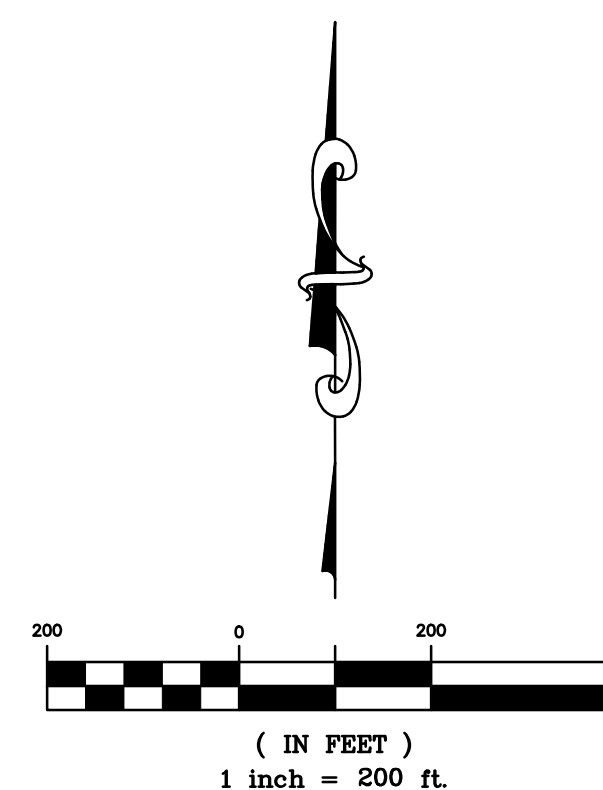
**BEING 38.769 ACRES OF LAND (1,688,778 SQUARE FEET)
OUT OF THE REUBEN BEBEE SURVEY, ABSTRACT NUMBER 29
IN THE CITY OF SANGER, DENTON COUNTY, TEXAS**



show pond in the plat as part of phase 1

LINE TABLE		
LINE	LENGTH	BEARING
L20	18.38'	N43°48'48"W
L21	15.56'	S34°59'09"E
L22	15.56'	N55°00'51"E
L23	15.56'	S34°59'09"E
L24	12.00'	S01°11'12"W
L25	18.38'	S15°49'38"E
L26	50.00'	S29°10'22"W
L27	18.38'	S74°10'22"W
L28	18.60'	N16°30'14"W
L29	15.56'	S74°10'22"E
L30	15.56'	N15°49'38"W
L31	12.00'	N01°11'12"E
L32	18.38'	S43°48'48"E
L33	20.68'	S44°05'43"E
L34	20.33'	S45°54'17"W
L35	9.79'	N00°40'28"E
L36	15.00'	S89°32'19"E
L37	4.31'	S00°40'28"W

Curve Table					
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C1	22.26'	80.00'	15°56'33"	S9°09'29"W	22.19'
C2	10.81'	80.00'	7°44'22"	N79°06'51"E	10.80'
C3	21.47'	80.00'	15°22'30"	S80°33'30"E	21.40'
C5	34.85'	150.00'	13°18'42"	N86°38'30"W	34.77'
C6	11.74'	150.00'	4°29'03"	S88°56'41"W	11.74'
C7	7.19'	775.00'	0°31'54"	N29°13'20"E	7.19'
C8	23.75'	150.89'	9°01'05"	N14°54'51"E	23.73'
C9	15.06'	50.00'	17°15'21"	S49°18'24"W	15.00'
C10	77.03'	500.00'	8°49'39"	N5°36'02"E	76.96'



ATWELL
856.850.4200 www.atwell.com

OWNER/DEVELOPER/APPLICANT	KALTER CAPITAL 10268 W. CENTENNIAL RD. UNIT 200 F LITTLETON, CO
	303-324-1771
	IFF EISENHOF

PLAT FILING NO. 1

LOIS ROAD ESTATES SUBDIVISION
155 RESIDENTIAL LOTS - 6 HOA LOTS
REUBEN BEBEE SURVEY, ABST. NO. 29
38,769 ACRES - 1,688,778 SQUARE FEET
CITY OF SANGER, DENTON COUNTY TEXAS

DATE 02/28/2025

A	1st SUBMITTAL TO CITY OF SANGER 02/28/2025 - I
B	2nd SUBMITTAL TO CITY OF SANGER XX/XX/2025 - I

REVISIONS

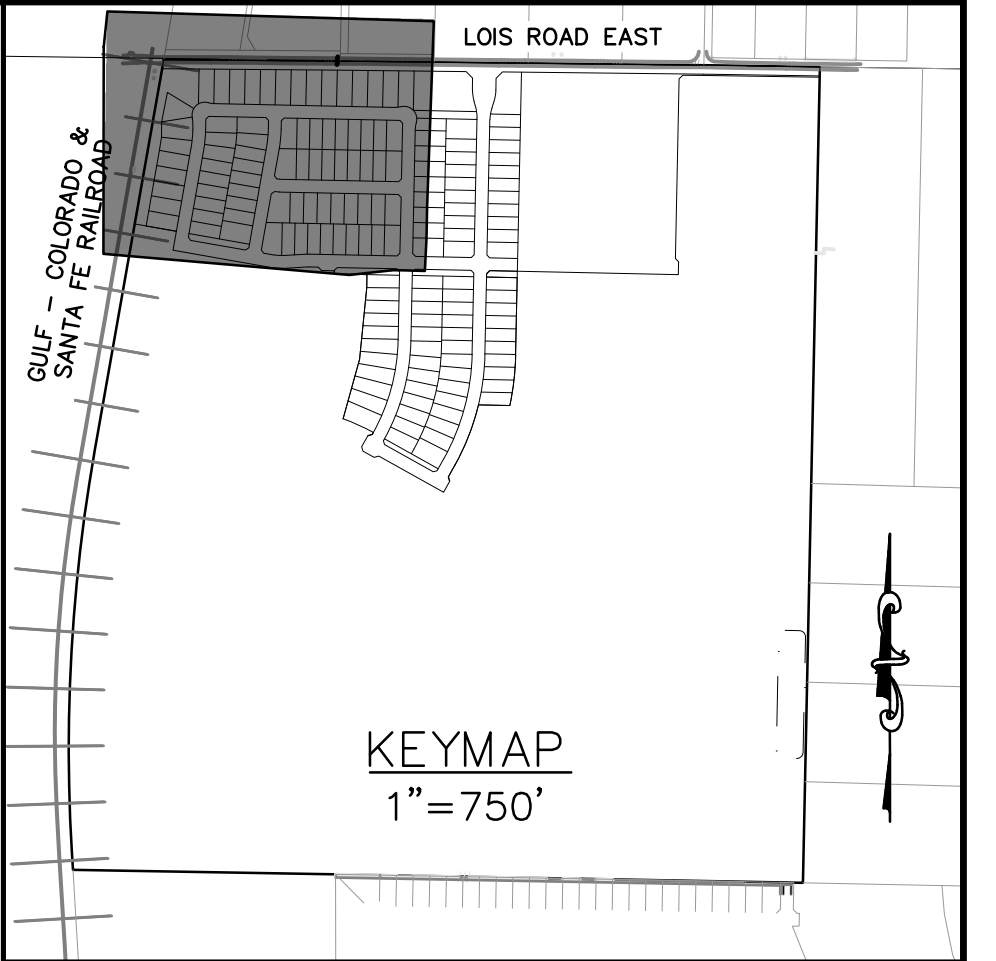
DR.	TN	CH.	AS
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P.M. RG

JOB 24007256

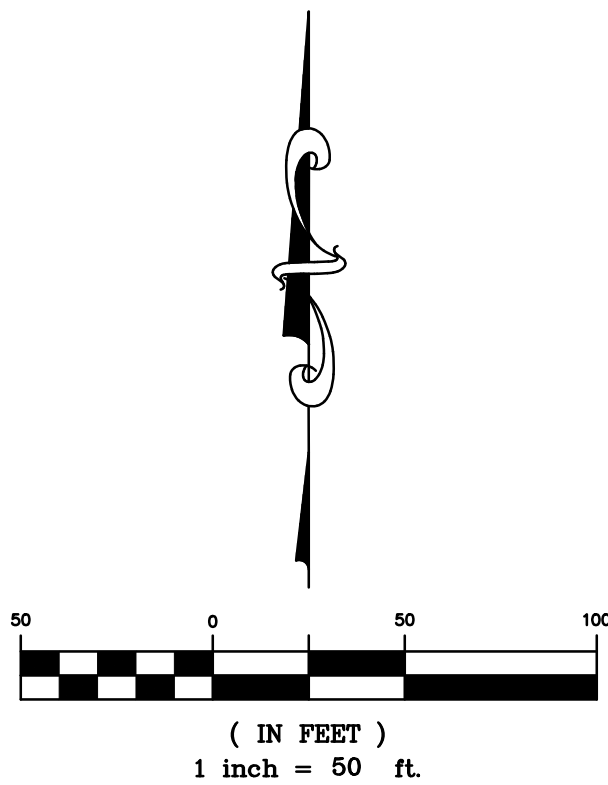
SHEET 02 OF 5

**BEING 38.769 ACRES OF LAND (1,688,778 SQUARE FEET)
OUT OF THE REUBEN BEBEE SURVEY, ABSTRACT NUMBER 29
IN THE CITY OF SANGER, DENTON COUNTY, TEXAS**



Provide easement for utilities through Tract C

Update drainage easements per updated grading sheets



LEGEND

- | | |
|-------------|---|
| ○ | FOUND MONUMENT, AS NOTED |
| ● | SET 1/2" IRON ROD WITH PLASTIC CAP STAMPED "ATWELL LLC" |
| ▲ | MAG NAIL FOUND |
| △ | MAG NAIL SET |
| ✦ | SECTION CORNER, AS NOTED |
| 1 | LOT NUMBER |
| (A) | BLOCK LETTER |
| TMB | TEMPORARY BENCH MARK |
| D.E. | DRAINAGE EASEMENT |
| U.E. | UTILITY EASEMENT |
| ————— | SUBJECT PARCEL BOUNDARY LINE |
| — — — — — | SECTION LINE |
| ————— | SUBDIVISION LOT LINE |
| - - - - - | LOT SETBACK |
| ————— | ADJACENT PROPERTY LINE |
| - - - - - | EASEMENT LINE, AS NOTED |
| — — | RIGHT-OF-WAY LINE |
| - - - - - | OFFSET / TIE LINE |



ATWELL
866.850.4200 www.atwell.com

KALIER CAPITAL 10268 W. CENTENNIAL RD. UNIT 200 F LITTLETON, CO	303-324-1771	LEE EISENHEIM
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LOIS ROAD ESTATES SUBDIVISION
155 RESIDENTIAL LOTS - 6 HOA LOTS
REUBEN BEBEE SURVEY, ABST. NO. 29
38.769 ACRES - 1,688,778 SQUARE FEET
CITY OF SANGER, DENTON COUNTY TEXAS

02/28/2025

SUBMITTAL TO CITY OF
 DANGER 02/28/2025 - KB
 SUBMITTAL TO CITY OF
 DANGER XX/XX/2025 - KB

REVISIONS

REVISIONS

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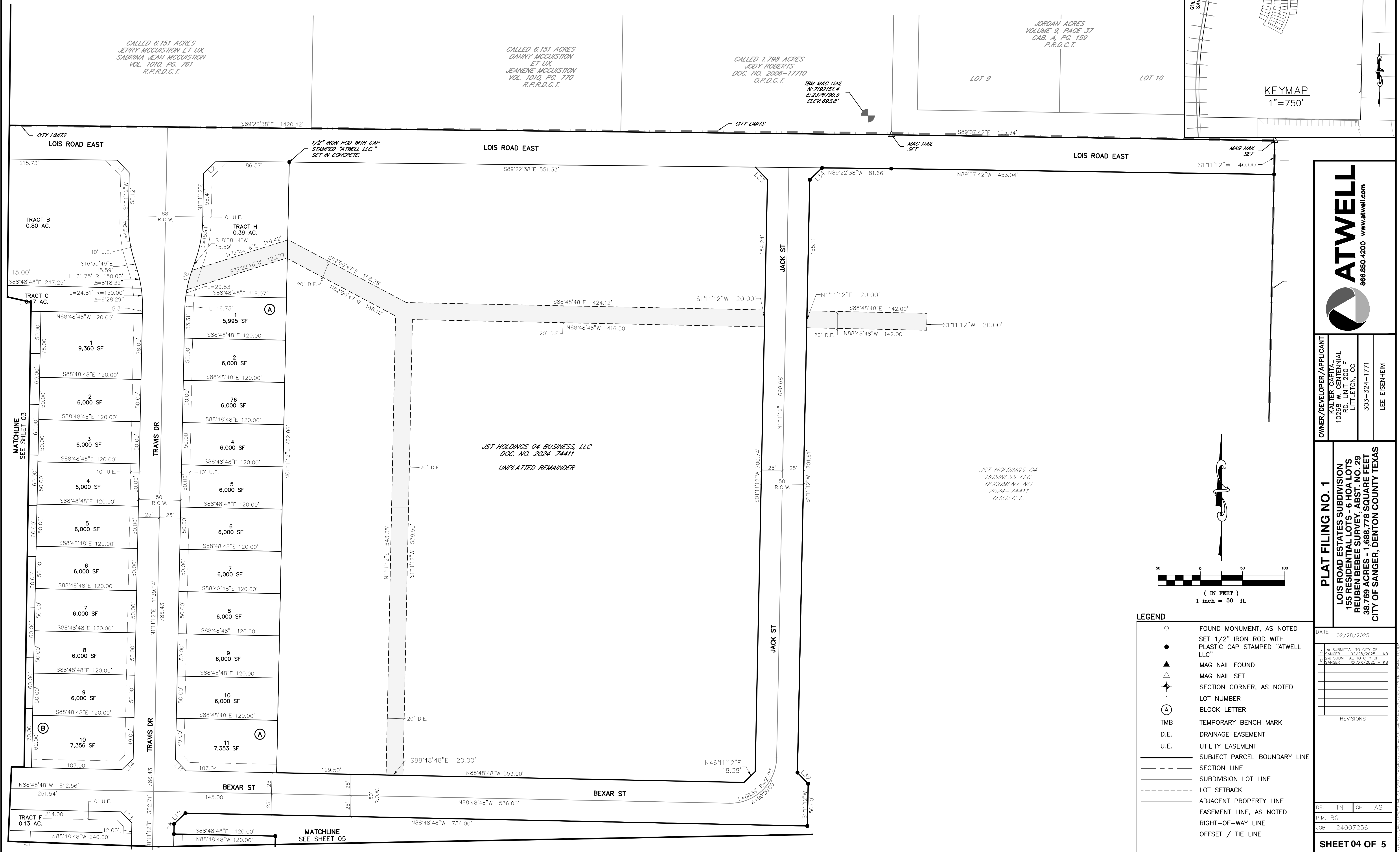
RG

24007256

MEET 03 OF 5

LOIS ROAD ESTATES SUBDIVISION PLAT FILING NO. 1

BEING 38.769 ACRES OF LAND (1,688,778 SQUARE FEET)
OUT OF THE REUBEN BEBEE SURVEY, ABSTRACT NUMBER 29
IN THE CITY OF SANGER, DENTON COUNTY, TEXAS



LEGEND

○	FOUND MONUMENT, AS NOTED
●	SET 1/2" IRON ROD WITH PLASTIC CAP STAMPED "ATWELL LLC"
▲	MAG NAIL FOUND
△	MAG NAIL SET
◆	SECTION CORNER, AS NOTED
1	LOT NUMBER
(A)	BLOCK LETTER
TMB	TEMPORARY BENCH MARK
D.E.	DRAINAGE EASEMENT
U.E.	UTILITY EASEMENT
—	SUBJECT PARCEL BOUNDARY LINE
- - -	SECTION LINE
— · —	SUBDIVISION LOT LINE
- - - - -	LOT SETBACK
- · - · -	ADJACENT PROPERTY LINE
- · - · - · -	EASEMENT LINE, AS NOTED
- · - · - · - · -	RIGHT-OF-WAY LINE
- · - · - · - · - · -	OFFSET / TIE LINE

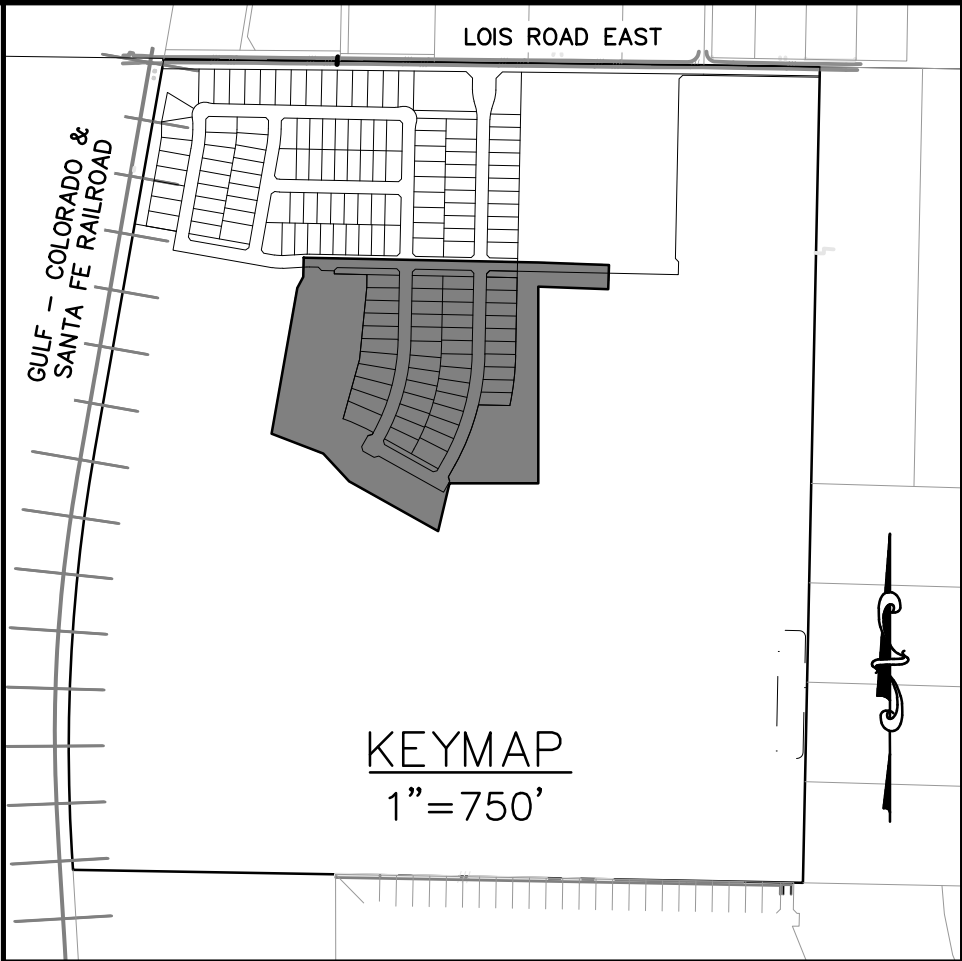
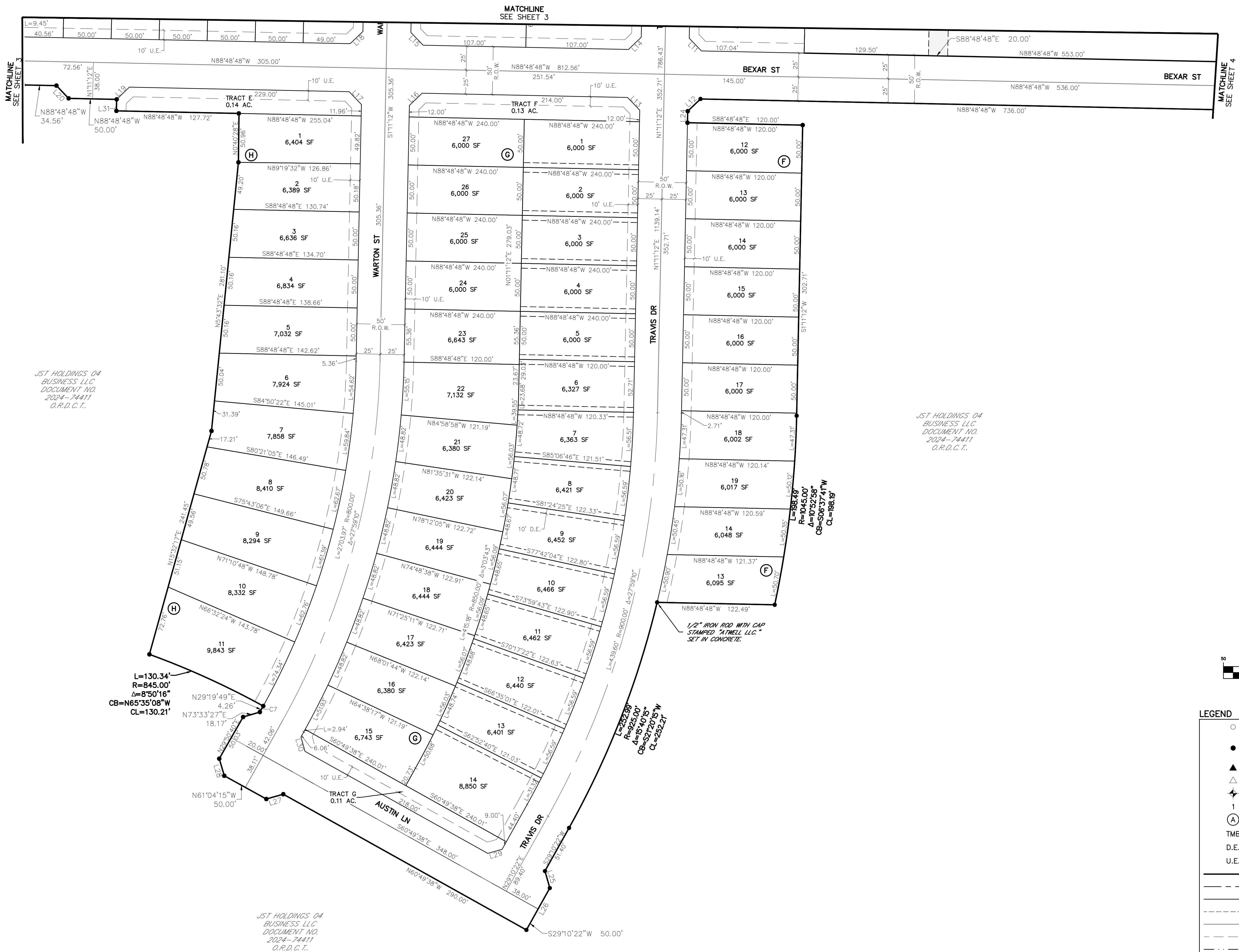
866.850.4200 www.atwell.com

OWNER/DEVELOPER/APPLICANT	KALTER CAPITAL 10268 W. CENTENNIAL RD. UNIT 200 F LITTLETON, CO
PLAT FILING NO. 1	LOIS ROAD ESTATES SUBDIVISION 155 RESIDENTIAL LOTS - 6 HOA LOTS REUBEN BEBEE SURVEY, ABST. NO. 29 38.769 ACRES - 1,688,778 SQUARE FEET CITY OF SANGER, DENTON COUNTY TEXAS
DATE	02/28/2025
1 st SUBMITTAL TO CITY OF SANGER	02/28/2025 - KB
2 nd SUBMITTAL TO CITY OF SANGER	XX/XX/2025 - KB
REVISIONS	
DR.	TN CH. AS
P.M.	RG
JOB	24007256
SHEET 04 OF 5	

LOIS ROAD ESTATES SUBDIVISION PLAT FILING NO. 1, DENTON COUNTY, TEXAS, 02/28/2025, 2:10 PM, REBEEBEE

LOIS ROAD ESTATES SUBDIVISION PLAT FILING NO. 1

BEING 38.769 ACRES OF LAND (1,688,778 SQUARE FEET)
OUT OF THE REUBEN BEBEE SURVEY, ABSTRACT NUMBER 29
IN THE CITY OF SANGER, DENTON COUNTY, TEXAS



LEGEND	
○	FOUND MONUMENT, AS NOTED
●	SET 1/2" IRON ROD WITH PLASTIC CAP STAMPED "ATWELL LLC"
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◆	SECTION CORNER, AS NOTED
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TMB	TEMPORARY BENCH MARK
D.E.	DRAINAGE EASEMENT
U.E.	UTILITY EASEMENT
—	SUBJECT PARCEL BOUNDARY LINE
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---	SUBDIVISION LOT LINE
---	LOT SETBACK
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---	EASEMENT LINE, AS NOTED
---	RIGHT-OF-WAY LINE
---	OFFSET / TIE LINE

866.850.4200 www.atwell.com

OWNER/DEVELOPER/APPLICANT	KALTER CAPITAL 10268 W. CENTENNIAL RD. UNIT 200 F LITTLETON, CO
PLAT FILING NO. 1	LOIS ROAD ESTATES SUBDIVISION 155 RESIDENTIAL LOTS - 6 HOA LOTS REUBEN BEBEE SURVEY, ABST. NO. 29 38.769 ACRES - 1,688,778 SQUARE FEET CITY OF SANGER, DENTON COUNTY TEXAS
DATE	02/28/2025
1st SUBMITTAL TO CITY OF SANGER	02/28/2025 - KB
2nd SUBMITTAL TO CITY OF SANGER	XX/XX/2025 - KB
REVISIONS	
DR.	TN
CH.	AS
P.M.	RG
JOB	24007256
SHEET	05 OF 5

JST HOLDINGS 04
BUSINESS LLC
DOCUMENT NO.
2024-74411
O.R.D.C.T.

JST HOLDINGS 04
BUSINESS LLC
DOCUMENT NO.
2024-74411
O.R.D.C.T.

JST HOLDINGS 04
BUSINESS LLC
DOCUMENT NO.
2024-74411
O.R.D.C.T.

L=292.38'
R=845.00'
Δ=8°50'16"
CB=S27°20'15"W
CL=252.21'

L=88.40'
R=1045.00'
Δ=10°52'58"
CB=S06°37'41"W
CL=686.19'

SITUATED IN THE
CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS
CONSTRUCTION PLANS

(SEE SHEET 02 FOR FILING 2 LEGAL DESCRIPTION)



NORRIS DESIGN
208 NORTH MARKET STREET
SUITE 250
DALLAS, TX 75202
CONTACT: JONATHAN WEST, PLA
PH. 972.232.4181
JWEST@NORRIS-DESIGN.COM

SANITARY SEWER PLAN & PROFILES	
47	RUN 1-1
48	RUN 1-2
49	RUN 2
50	RUN 3
51	RUN 4
52	RUN 5
53	RUN 6-1
54	RUN 6-2
55	RUN 7-1
56	RUN 7-2
57	RUN 8
58	RUN 9
59	RUN 10
60	RUN 11-1
61	RUN 11-2
62	RUN 12-1
63	RUN 12-2
64	RUN 13
STORM SEWER PLAN & PROFILES	
65	RUN 1
66	RUN 1-1
67	RUN 2-1
68	RUN 2-2
69	RUN 2.1
70	RUN 3-1
71	RUN 3-2
72	RUN 4
73	RUN 5
74	RUN 6
75	RUN 7
76	RUN 8
77	RUN 9
78	POND A OUTFALL
79	LATERALS 1
80	LATERALS 2
POND PLAN & DETAILS	
81	POND A
82	POND A SECTIONS
83	POND B
84	POND B SECTIONS
85	EXISTING DRAINAGE MAP
86	PROPOSED DRAINAGE MAP
87	RATIONAL CALCS
88	INLET CALCS 1
89	HGL CALCS
90	RIPRAP CALCS
CONSTRUCTION DETAILS	
91	STREET DETAILS
92	STREET DETAILS
93	SANITARY SEWER DETAILS
94	STORM SEWER DETAILS
95	STORM SEWER DETAILS
96	WATER DETAILS
97	WATER DETAILS
98	WATER DETAILS
STORM WATER POLLUTION PREVENTION PLAN	
99	SWPPP-1
100	SWPPP-2
101	SWPPP-3
102	SWPPP-4
103	SWPPP-5
104	SWPPP-6
105	SWPPP DETAILS

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON
NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL
ZONE, NAVD 88.



COMMENCING AT A MAG NAIL FOUND, BEING THE NORTHWESTERN CORNER OF SAID JST HOLDINGS 202.49 ACRE TRACT, BEING ON OR NEAR THE CENTERLINE OF LOIS ROAD EAST AND ON THE EASTERN RIGHT-OF-WAY LINE OF THE GULF COAST AND SANTA FE RAILROAD, (100' RIGHT-OF-WAY WIDTH);

THENCE, CROSSING THROUGH SAID JST HOLDINGS 202.49 ACRE TRACT, THE FOLLOWING THIRTY-NINE (39) COURSES AND DISTANCES:

- THENCE, ALONG SAID WESTERN LINE OF JST HOLDINGS 202.49 ACRE TRACT AND SAID EASTERN LINE OF SANTA FE RAILROAD, THE FOLLOWING TWO (2) COURSES AND DISTANCES:

- CONTAINING 29.228 ACRES (1,273,156 SQUARE FEET), MORE OR LESS.

1. SITE TOPOGRAPHIC INFORMATION WAS TAKEN FROM A SURVEY PREPARED BY EAGLE SURVEYING, LLC, DATED 05/01/2024.

27. CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING UTILITES. DAMAGED UTILITIES SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

1. BUILDING SILL ELEVATIONS AND SEWER INVERTS ARE APPROXIMATE AND SHOULD BE CONFIRMED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.

1. THE SOIL BENEATH THE PAVEMENT SHALL BE TREATED AS FOLLOWS:

- PAVING NOTES:

3. REFER TO GRADING PLAN FOR SOIL PREPARATION SPECIFICATIONS UNDER PAVEMENT.
2. CONCRETE FOR THE CONCRETE PAVEMENT SHALL HAVE A 28 DAY DESIGN COMPRESSIVE STRENGTH OF 4,000 PSI, A MINIMUM OF 5.5 SACKS OF 5.5 SACKS OF PORTLAND CEMENT PER CUBIC YARD, 20% CLASS C FLYASH, 4% TO 6% AIR CONTENT USING AIR ENTRAINING AGENT AS REQUIRED, MID RANGE WATER REDUCING AGENT AND A 5-6" SLUMP.
3. CONCRETE FOR PRIVATE SIDEWALKS, CURBS, GUTTERS, AND DRAINAGE STRUCTURES SHALL HAVE A 28 DAY DESIGN COMPRESSIVE STRENGTH OF 3,000 PSI, A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD, 4% TO 6% AIR CONTENT USING AIR ENTRAINING AGENT AS REQUIRED, 20% CLASS C FLYASH AND A 5-6" SLUMP.
4. THE MID RANGE WATER REDUCING AGENT ADMIXTURE CONFORMING TO ASTM C-494, TYPE A OR D SHALL BE CHOSEN FROM ONE OF THE FOLLOWING (OR APPROVED EQUIV):
EUCON X-20 OR EUCON MR BY EUCLID
SIKAMENT NL BY SIKA
PLASTIMIX MR BY PROMIX TECHNOLOGIES
MIRA 85 BY W.R.GRACE AND CO.
POLYHEED 1020 BY DEGUSSA ADMIXTURES
- THE AMOUNT OF MID RANGE WATER REDUCER SHALL BE AS RECOMMENDED BY THE ADMIXTURE SUPPLIER TO INCREASE THE SLUMP OF THE CONCRETE BY 50 PERCENT OVER THE SLUMP WITHOUT THE ADMIXTURE. THE SLUMP GIVEN IN CONCRETE NOTES ARE AT THE POINT OF DISCHARGE.
5. IF THE AIR TEMPERATURE IS GREATER THAN 90 DEGREES WITHIN 24 HOURS AFTER PLACEMENT, HOT WEATHER CONCRETE PROCEDURE SHALL BE USED. THE CONTRACTOR SHALL SUBMIT A PROCEDURE TO THE ENGINEER FOR APPROVAL. THESE PROCEDURES MAY INCLUDE THE FOLLOWING:
 - A. PLACING THE CONCRETE IN THE EARLY MORNING HOURS.
 - B. THE USE OF EVAPORATION REDUCER (SEE BELOW)
 - C. THE USE OF MISTING AS A CURING METHOD
 - D. THE USE OF WET BLANKETS AS A CURING METHOD
 - E. THE USE OF A RETARDING ADMIXTURE (NOT PREFERABLE)
6. ANY CONCRETE TO BE PLACED FURTHER THAN 16 FEET FROM THE END OF A CONCRETE TRUCK SHALL BE PUMPED WITH A COMMERCIAL CONCRETE PUMPING TRUCK OR OTHER PLACEMENT METHOD APPROVED BY THE ENGINEER. THE CONCRETE TRUCK SHALL NOT BE ALLOWED TO DRIVE OVER THE SUBGRADE OR THE PAVEMENT REINFORCEMENT UNLESS APPROVED BY THE ENGINEER.
7. REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
8. REINFORCING BARS, BAR SUPPORTS, AND SPACERS SHALL BE DETAILED AND PROVIDED IN ACCORDANCE WITH THE A.C.I. DETAILING MANUAL. CHAIRS SHALL NOT BE PLACED FURTHER THAN 4 FEET APART. BAR SUPPORTS SHALL BE DAYTON/RICHMOND PRODUCTS (80-745-3703) OR EQUAL:
 - A. AT CONCRETE PAVEMENT: (CONCRETE THICKNESS MINUS 1 1/2 INCHES) HIGH, TYPE R21, OR TYPE BBP.
9. MASTER FINISH CONFLIM OR EUCOBAR EVAPORATION REDUCERS SHALL BE USED AFTER EACH FINISHING OPERATION ON THE CAST-IN-PLACE CONCRETE PAVEMENT UNLESS PRIOR APPROVAL FROM THE ENGINEER HAS BEEN OBTAINED TO NOT USE THIS PRODUCT.



KALTER CAPITAL	9788 SOUTH JOHNSON WAY LITTLETON, COLORADO 80127	303.801.7333	MICHAEL PRYOR
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KALTER CAPITAL

AD ESTATES – FILING NOS. 1 & 2
F SANGER, COUNTY OF DENTON,
STATE OF TEXAS

GENERAL NOTES & PLANS
NOTES

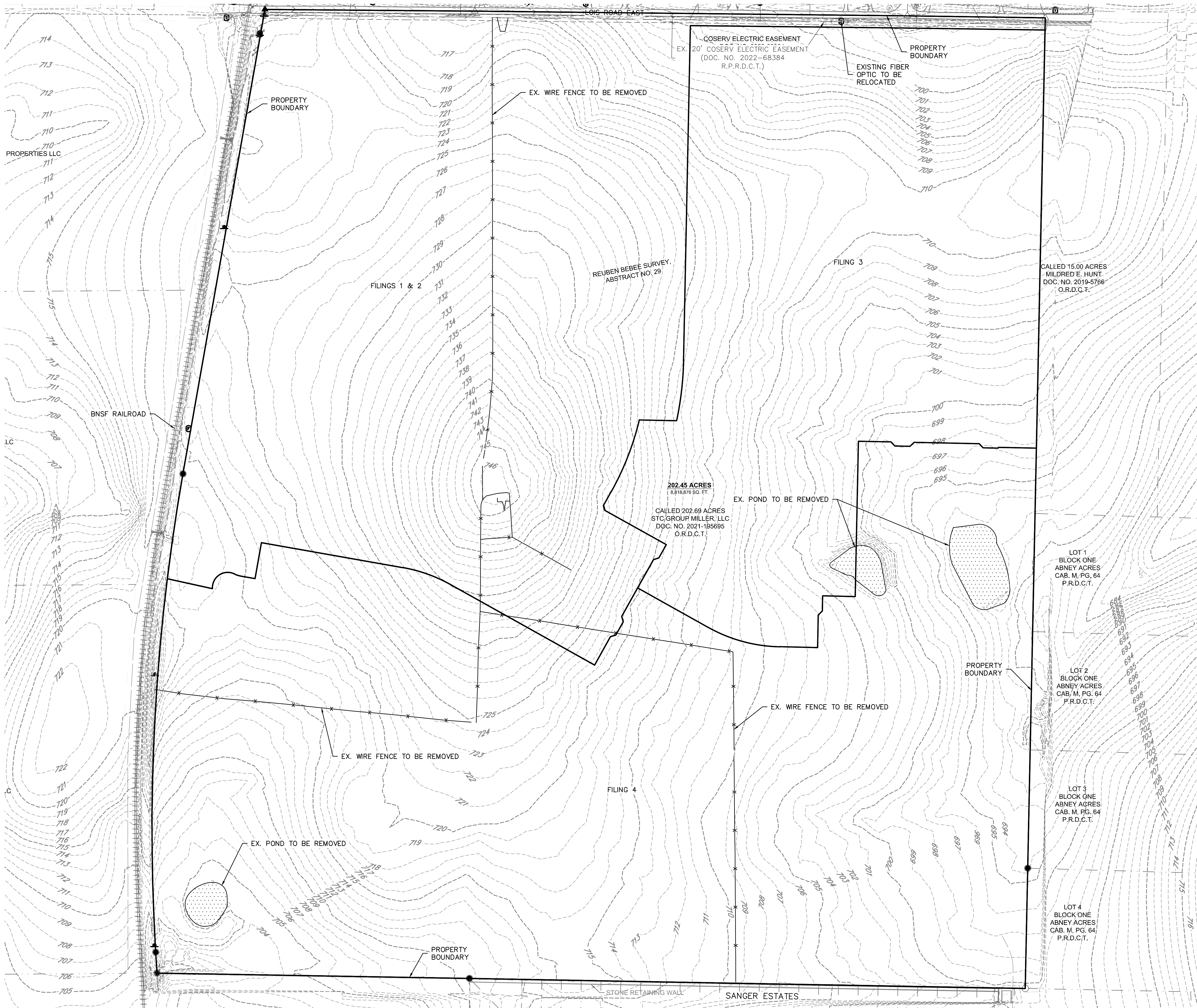
LOIS RO
CITY C

DATE 4/7/2025	
A	1 st SUBMITTAL TO JURISDICTION 4/7/2025 - KME
B	2 nd SUBMITTAL TO JURISDICTION 5/12/2025 - KME

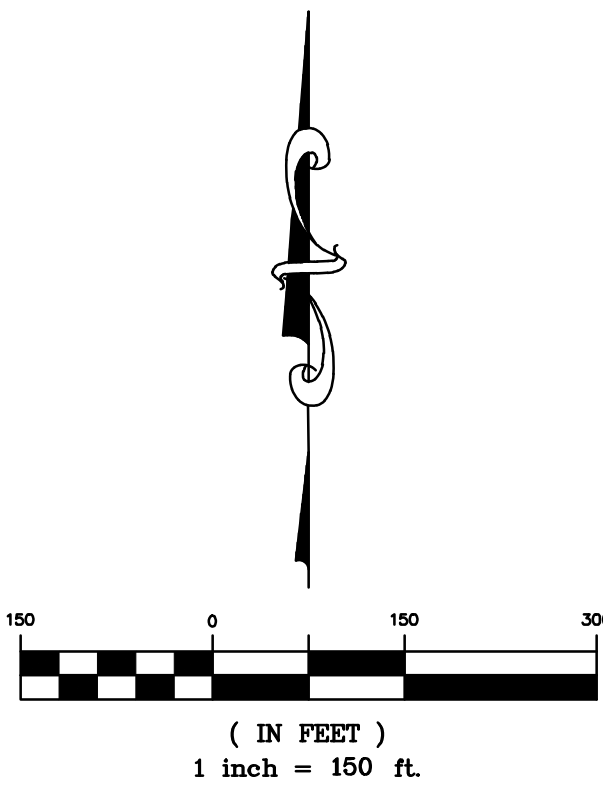
REVISIONS

DR.	TN	CH.	KB
P.M. JF			
OB 24007256			
SHEET NO.			
02			

\\s002725\plan SETS\CONSTRUCTION\LOIS ROAD EAST\LOIS ROAD EAST-CONTR-01.dwg: 4/7/2025 11:23 AM: 2000: NELSON




KEYMAP
1"=750'



BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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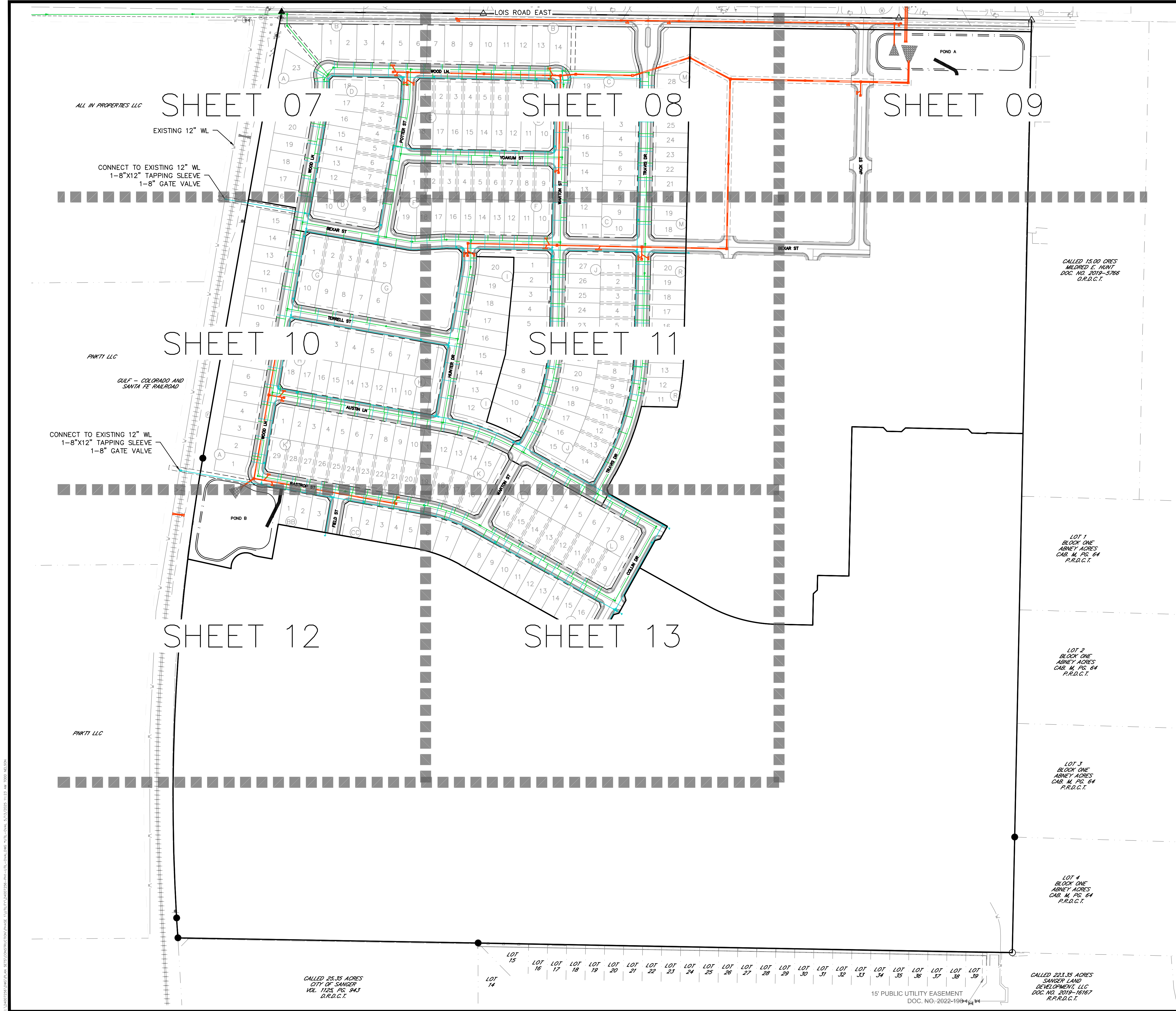
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DATE	4/7/2025	
REVISIONS		
DR.	TN	CH. KB
P.M.	JF	
JOB	24007256	
SHEET NO.	04	



LEGEND

	PROPERTY BOUNDARY
	PROPOSED RIGHT-OF-WAY
	EXISTING RIGHT-OF-WAY
	PROPOSED LOT LINE
	EXISTING LOT LINE
	PROPOSED EASEMENT
	EXISTING EASEMENT
	PROPOSED SANITARY SEWER
	EXISTING SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED WATER
	EXISTING WATER
	PROPOSED HYDRANT
	PROPOSED WATER VALVE

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CLIENT	KALTER CAPITAL	KALTER CAPITAL
	9788 SOUTH JOHNSON WAY LITTLETON, COLORADO 80127	9788 SOUTH JOHNSON WAY LITTLETON, COLORADO 80127
DATE	4/7/2025	4/7/2025
	1st SUBMITTAL TO JURISDICTION	1st SUBMITTAL TO JURISDICTION
REVISIONS	A 4/7/2025 - KMB	A 4/7/2025 - KMB
	B 5/12/2025 - KMB	B 5/12/2025 - KMB
DR.	TN	CH. KB
P.M.	JF	
JOB	24007256	
SHEET NO.	05	

BENCHMARK:
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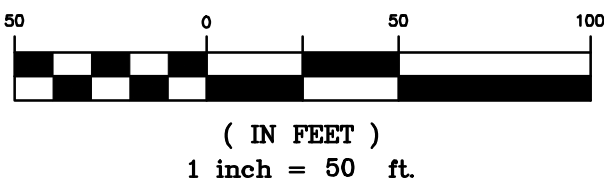
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LEGEND	
	PROPERTY BOUNDARY
	PROPOSED RIGHT-OF-WAY
	EXISTING RIGHT-OF-WAY
	PROPOSED LOT LINE
	EXISTING LOT LINE
	PROPOSED EASEMENT
	EXISTING EASEMENT
	PROPOSED SANITARY SEWER
	EXISTING SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED WATER
	EXISTING WATER
	PROPOSED HYDRANT
	PROPOSED WATER VALVE

AREA-01
SEE SHEET 07



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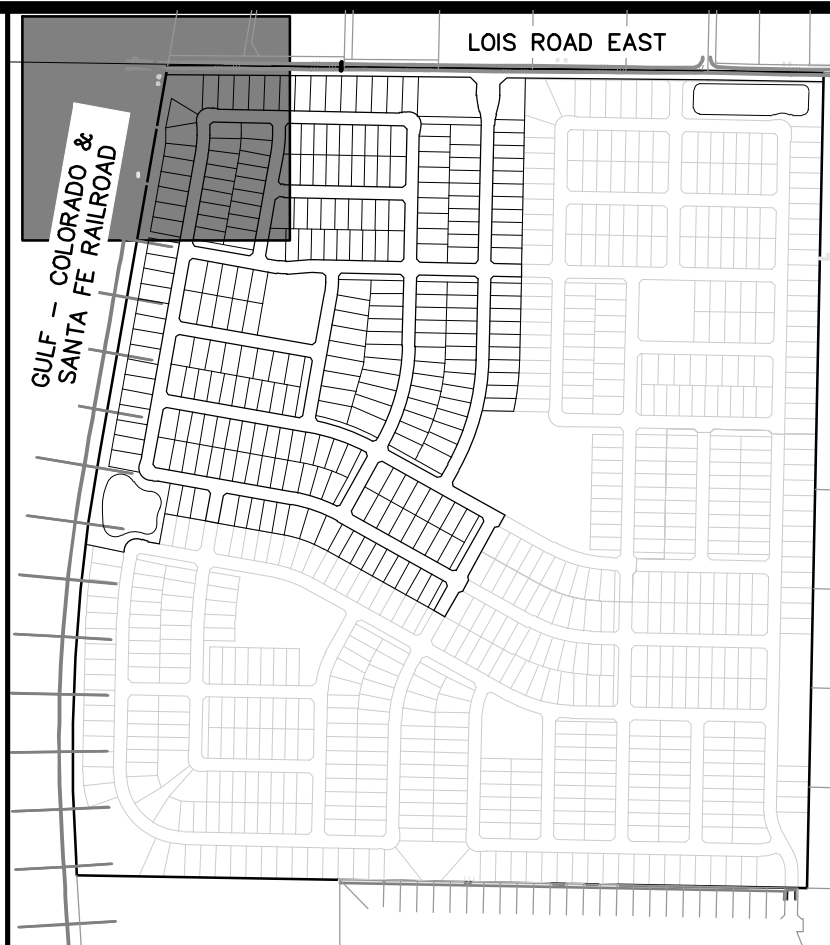
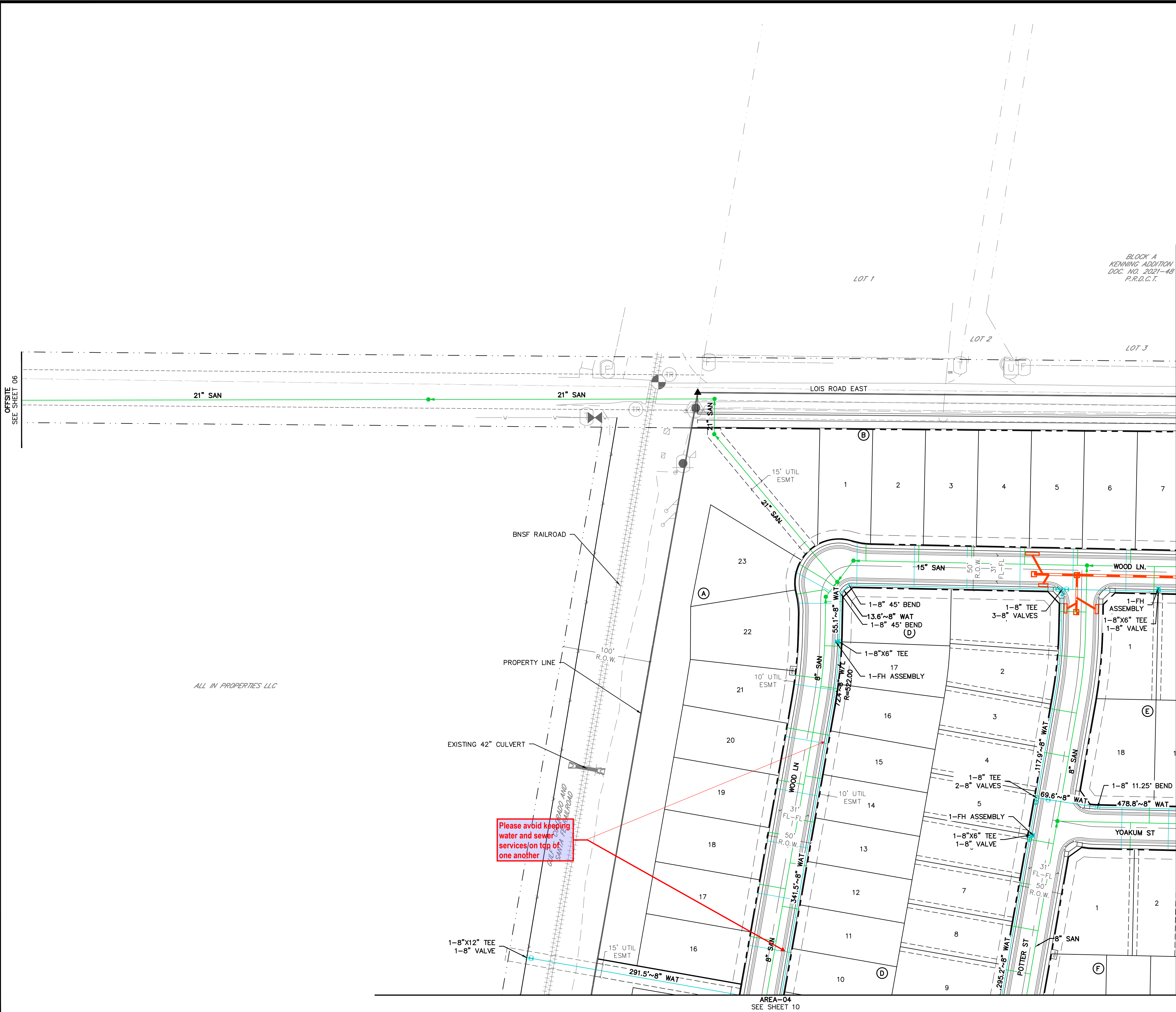
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CLIENT	KALTER CAPITAL	KALTER CAPITAL
	LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS	9788 SOUTH JOHNSON WAY LITTLETON, COLORADO 80127
DATE	4/7/2025	303.801.7333
		MICHAEL PRYOR
OVERALL UTILITY PLANS OFFSITE		
1st SUBMITTAL TO JURISDICTION A 4/7/2025 - KMB		
2nd SUBMITTAL TO JURISDICTION B 5/17/2025 - KMB		
REVISIONS		
DR. TN CH. KB		
P.M. JF		
JOB 24007256		
SHEET NO. 06		

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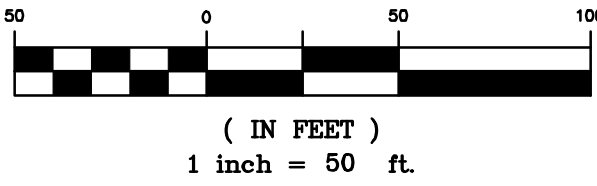
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KEYMAP
1"=750'

LEGEND

	PROPERTY BOUNDARY
	PROPOSED RIGHT-OF-WAY
	EXISTING RIGHT-OF-WAY
	PROPOSED LOT LINE
	EXISTING LOT LINE
	PROPOSED EASEMENT
	EXISTING EASEMENT
	PROPOSED SANITARY SEWER
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	PROPOSED WATER
	EXISTING WATER
	PROPOSED HYDRANT
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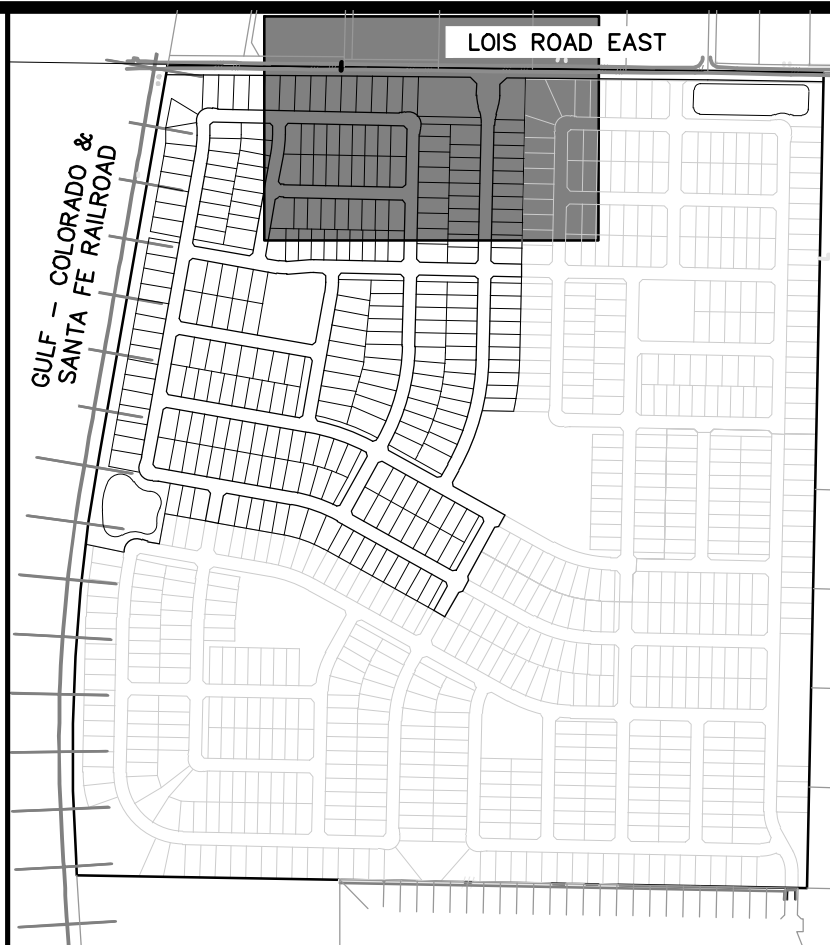
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CLIENT	KALTER CAPITAL	KALTER CAPITAL
	9788 SOUTH JOHNSON WAY LITTLETON, COLORADO 80127	LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS
DATE	4/7/2025	OVERALL UTILITY PLANS AREA-01
1st SUBMITTAL TO JURISDICTION	4/7/2025 - KMB	
2nd SUBMITTAL TO JURISDICTION	5/12/2025 - KMB	
REVISIONS		
DR.	TN	CH. KB
P.M.	JF	
JOB	24007256	
SHEET NO.	07	

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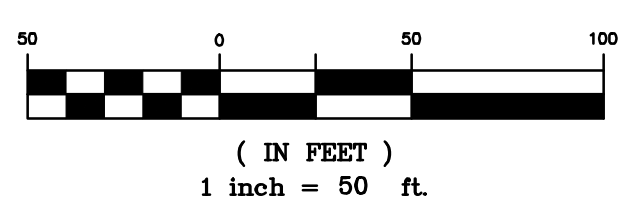
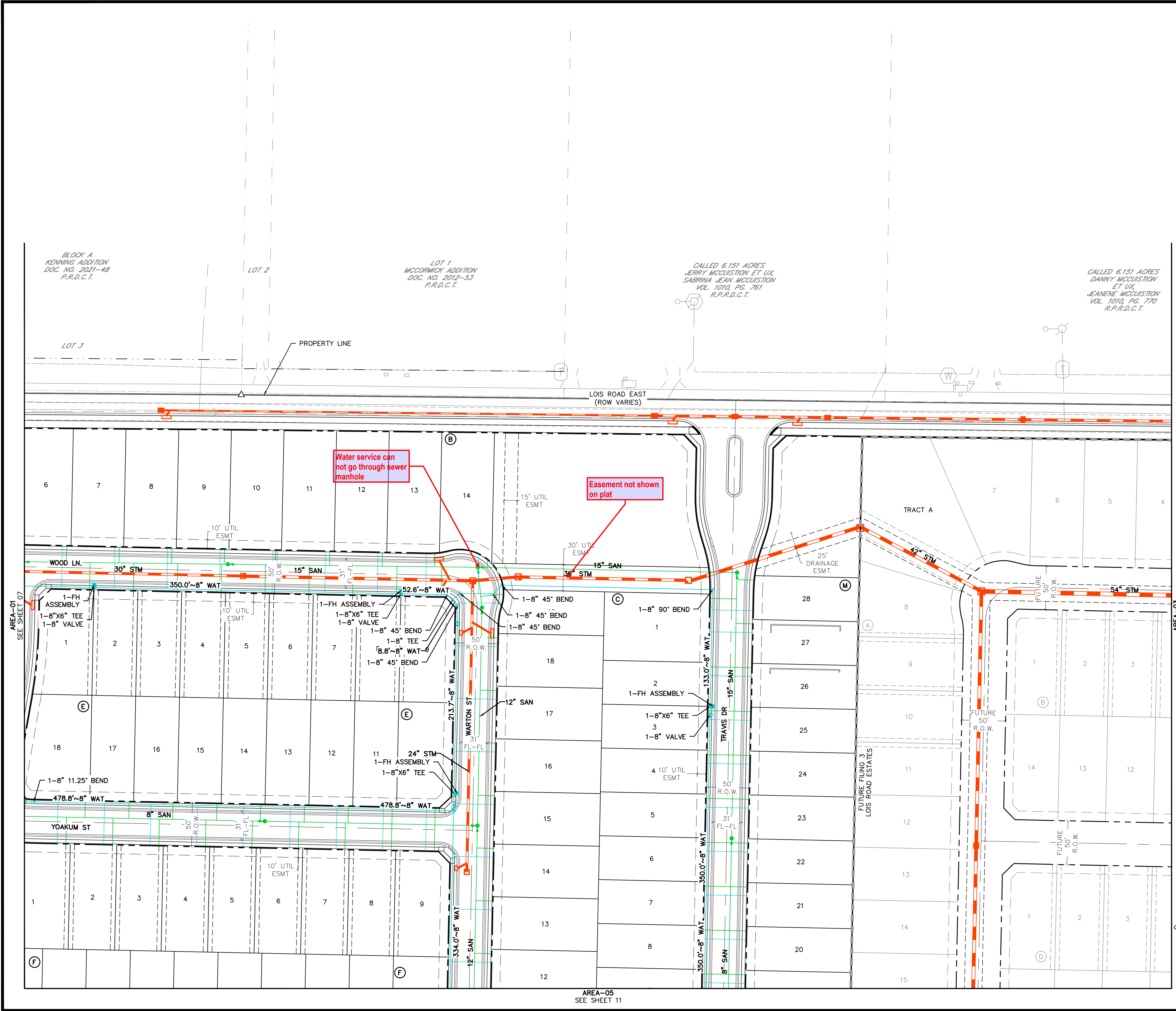
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KEYMAP
1"=750'

LEGEND	
	PROPERTY BOUNDARY
	PROPOSED RIGHT-OF-WAY
	EXISTING RIGHT-OF-WAY
	PROPOSED LOT LINE
	EXISTING LOT LINE
	PROPOSED EASEMENT
	EXISTING EASEMENT
	PROPOSED SANITARY SEWER
	EXISTING SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED WATER
	EXISTING WATER
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CLIENT	KALTER CAPITAL
PROJECT	LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS
DATE	4/7/2025
REVISIONS	A 1st SUBMITTAL TO JURISDICTION 4/7/2025 - RMB B 2nd SUBMITTAL TO JURISDICTION 5/12/2025 - RMB
DESIGNER	DR. TN CH. KB
CHECKER	P.M. JF
JOB NO.	24007256
SHEET NO.	08

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CALLED 6.151 ACRES
DANNY MCCUISION
ET UX,
JEANEENE MCCUISION
VOL. 1010, PG. 770
O.R.D.C.T.

CALLED 1.798 ACRES
JODY ROBERTS
DOC. NO. 2006-17710
O.R.D.C.T.

JORDAN ACRES
VOLUME 9, PAGE 37
CAB. A, PG. 159
P.R.D.C.T.

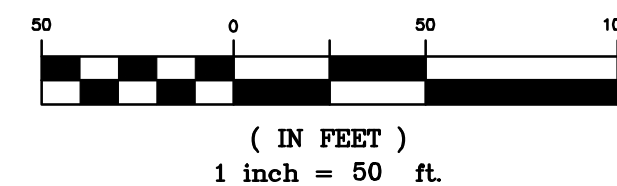
CALLED 15.00 ACRES
MILDRED E. HUNT
DOC. NO. 2019-5766
O.R.D.C.T.



KEYMAP
1"=750'

LEGEND

	PROPERTY BOUNDARY
	PROPOSED RIGHT-OF-WAY
	EXISTING RIGHT-OF-WAY
	PROPOSED LOT LINE
	EXISTING LOT LINE
	PROPOSED EASEMENT
	EXISTING EASEMENT
	PROPOSED SANITARY SEWER
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303.801.7333
MICHAEL PRYOR

KALTER CAPITAL
LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS
OVERALL UTILITY PLANS AREA-03

CLIENT
LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS

DATE
4/7/2025

A	1 st SUBMITTAL TO JURISDICTION	4/7/2025 - KMB
B	2 nd SUBMITTAL TO JURISDICTION	5/12/2025 - KMB

REVISIONS

DR.	TN	CH.	KB
P.M.	JF		

JOB	24007256
SHEET NO.	09

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TION, COLORADO 8
303.801.7333
MICHAEL PRYOR

KALTER CAPITAL

LOIS
CL

DATE 4/7/2025

A	1st SUBMITTAL TO JURISDICTION 4/7/2025 - KM
B	2nd SUBMITTAL TO JURISDICTION 5/12/2025 - KM

REVISIONS

NR.	TN	CH.	KB
P.M. JF			

OB 24007256

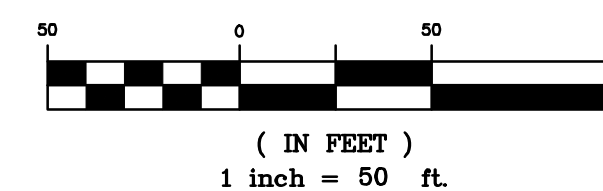
11



KEYMAP
1"=750'

LEGEND

- | | |
|--|-------------------------|
| | PROPERTY BOUNDARY |
| | PROPOSED RIGHT-OF-WAY |
| | EXISTING RIGHT-OF-WAY |
| | PROPOSED LOT LINE |
| | EXISTING LOT LINE |
| | PROPOSED EASEMENT |
| | EXISTING EASEMENT |
| | PROPOSED SANITARY SEWER |
| | EXISTING SANITARY SEWER |
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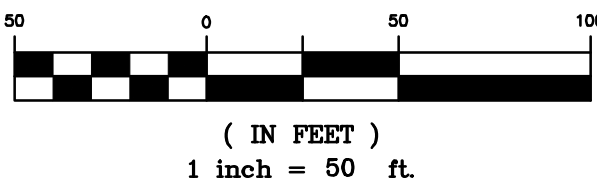
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KEYMAP
1"=750'

LEGEND

	PROPERTY BOUNDARY
	PROPOSED RIGHT-OF-WAY
	EXISTING RIGHT-OF-WAY
	PROPOSED LOT LINE
	EXISTING LOT LINE
	PROPOSED EASEMENT
	EXISTING EASEMENT
	PROPOSED SANITARY SEWER
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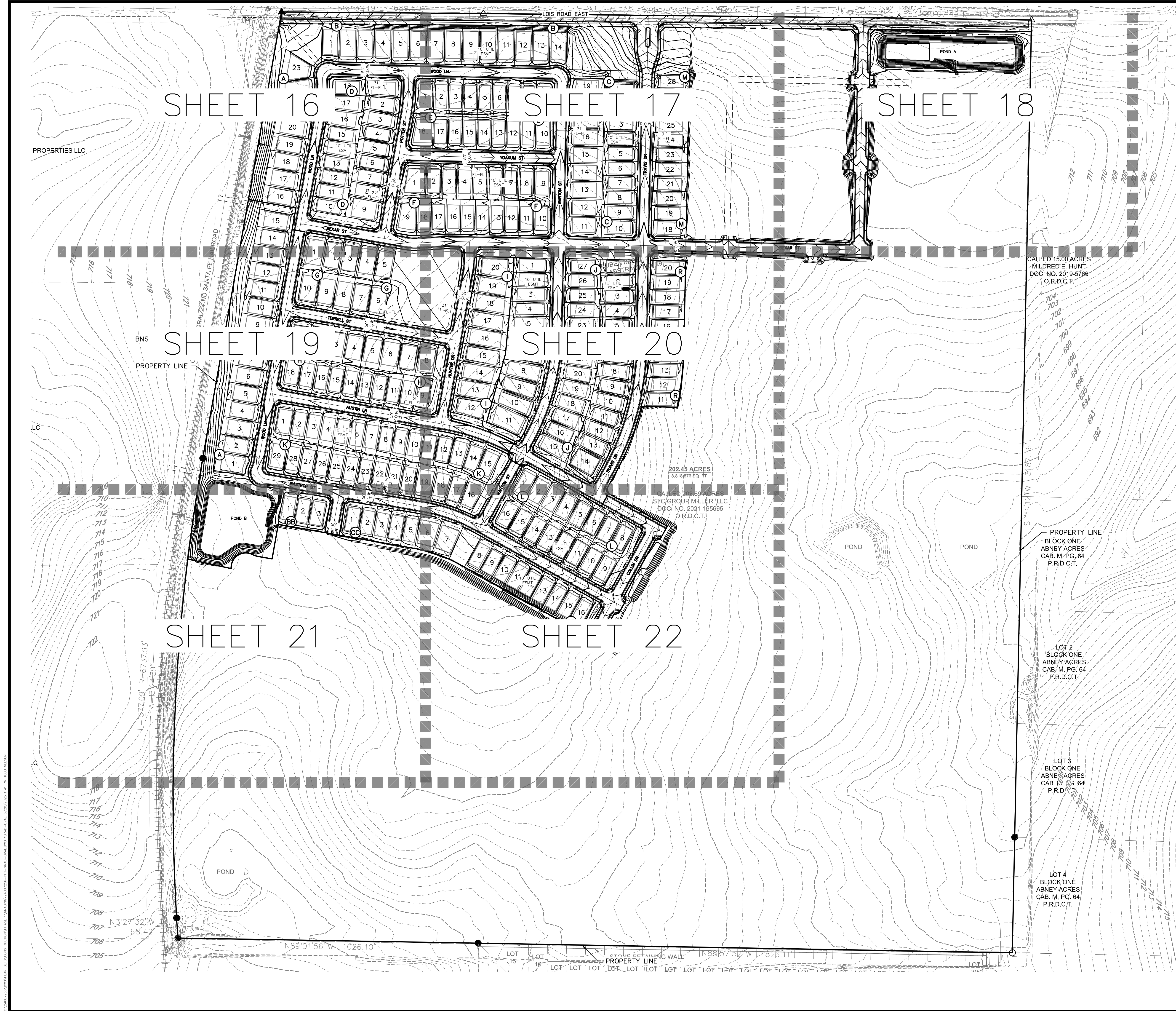
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	LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS	9788 SOUTH JOHNSON WAY LITTLETON, COLORADO 80127
DATE	4/7/2025	
A	1st SUBMITTAL TO JURISDICTION	4/7/2025 - KMB
B	2nd SUBMITTAL TO JURISDICTION	5/17/2025 - KMB
REVISIONS		
DR. TN CH. KB		
P.M. JF		
JOB 24007256		
SHEET NO. 12		

CAD FILE: 24007256-PH-UTILITY.dwg



LEGEND	
	PROPERTY BOUNDARY
	PROPOSED RIGHT-OF-WAY
	EXISTING RIGHT-OF-WAY
	PROPOSED LOT LINE
	EXISTING LOT LINE
	PROPOSED CATCH CURB & GUTTER
	PROPOSED SPILL CURB & GUTTER
	EXISTING CURB & GUTTER
	PROPOSED SIDEWALK
	EXISTING SIDEWALK
	EXISTING SECTION LINE
	PROPOSED EASEMENT
	EXISTING EASEMENT
	PROPOSED CONTOURS
	EXISTING CONTOURS

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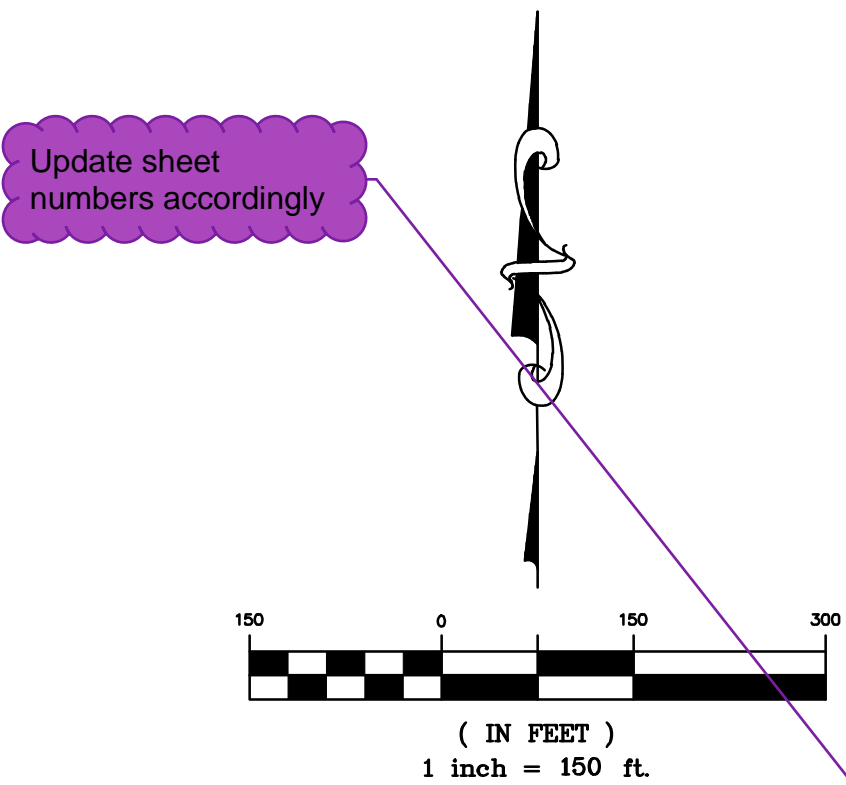
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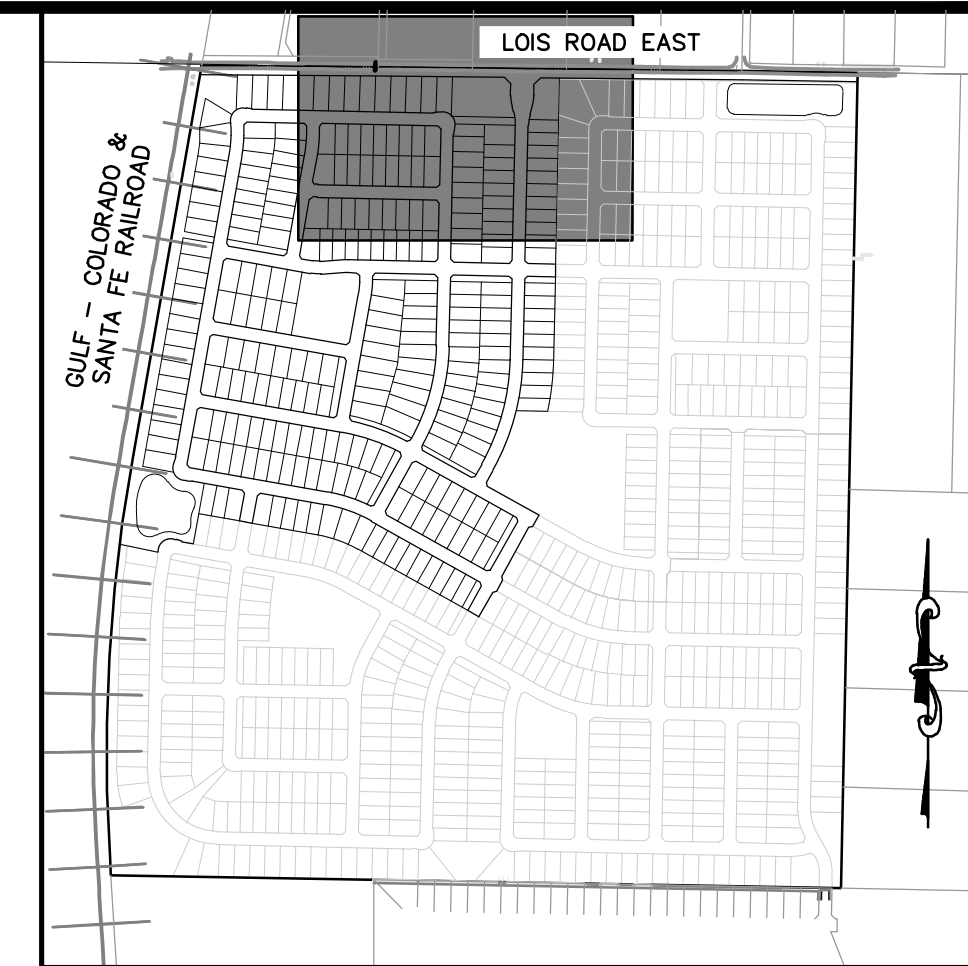
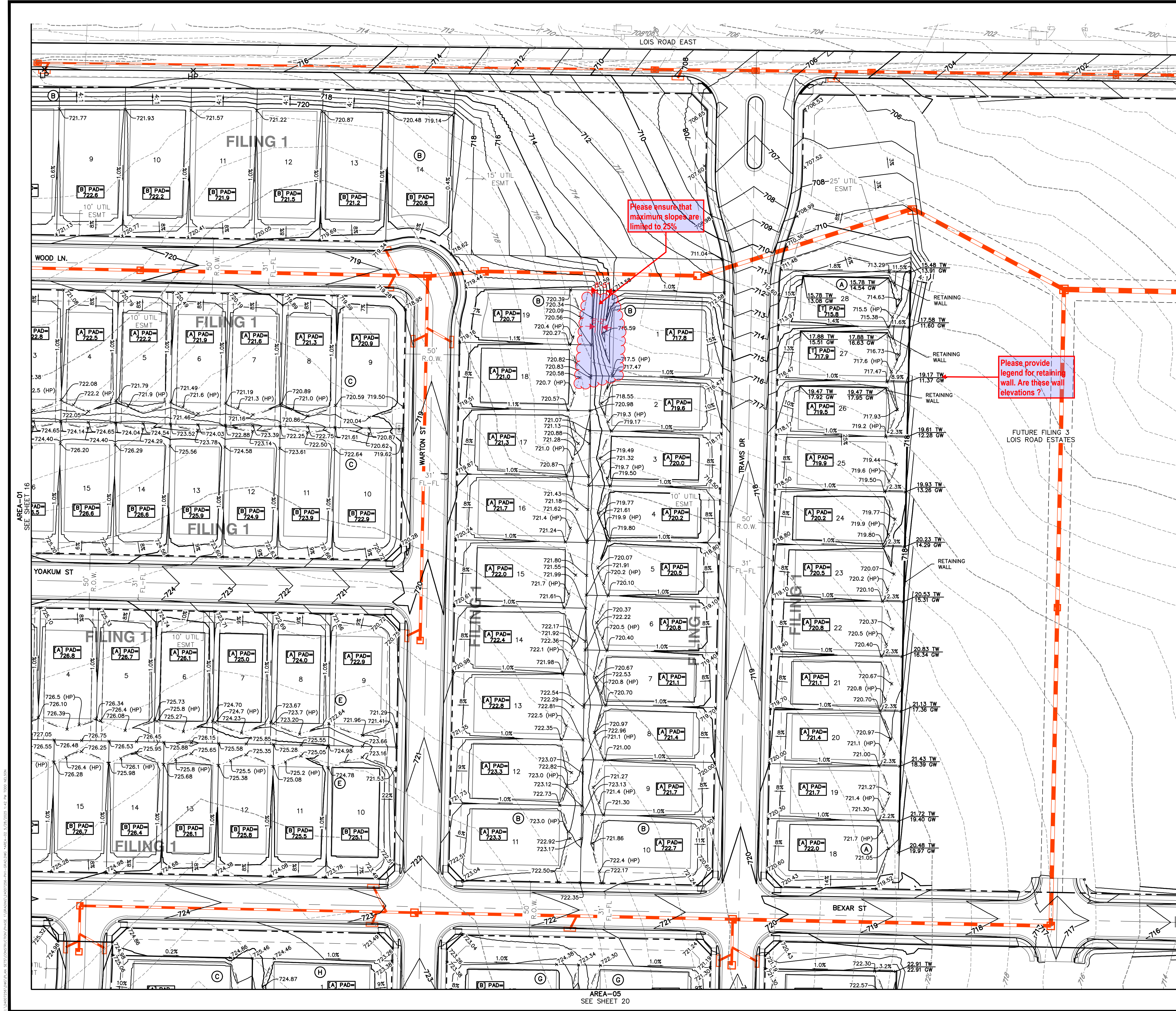
CLIENT	KALTER CAPITAL	9788 SOUTH JOHNSON WAY LITTLETON, COLORADO 80127
DATE	4/7/2025	303.801.7333 MICHAEL PRYOR
REVISIONS	LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS OVERALL GRADING OVERALL	
DR.	TN	CH. KB
P.M.	JF	
JOB	24007256	
SHEET NO.	15	

CAD FILE: 24007256-PA1-GRAD-OVAL.DWG



BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL ZONE, NAVD 88.



KEYMAP
1"=750'

LEGEND

---	PROPERTY BOUNDARY
---	PROPOSED RIGHT-OF-WAY
---	EXISTING RIGHT-OF-WAY
---	PROPOSED LOT LINE
---	EXISTING LOT LINE
---	PROPOSED CATCH CURB & GUTTER
---	PROPOSED SPILL CURB & GUTTER
---	EXISTING CURB & GUTTER
---	PROPOSED SIDEWALK
---	EXISTING SIDEWALK
---	EXISTING SECTION LINE
---	PROPOSED EASEMENT
---	EXISTING EASEMENT
---	PROPOSED CONTOURS
---	EXISTING CONTOURS

AREA-01
SEE SHEET 16

AREA-03
SEE SHEET 18



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KALTER CAPITAL

9788 SOUTH JOHNSON WAY
LITTLETON, COLORADO 80127

303.801.7333
MICHAEL PRYOR

KALTER CAPITAL

LOIS ROAD ESTATES - FILING NOS. 1 & 2
CITY OF SANGER, COUNTY OF DENTON,
STATE OF TEXAS

OVERALL GRADING
AREA-02

DATE 4/7/2025

A 1st SUBMITTAL TO JURISDICTION 4/7/2025 - RMB
B 2nd SUBMITTAL TO JURISDICTION 5/12/2025 - RMB

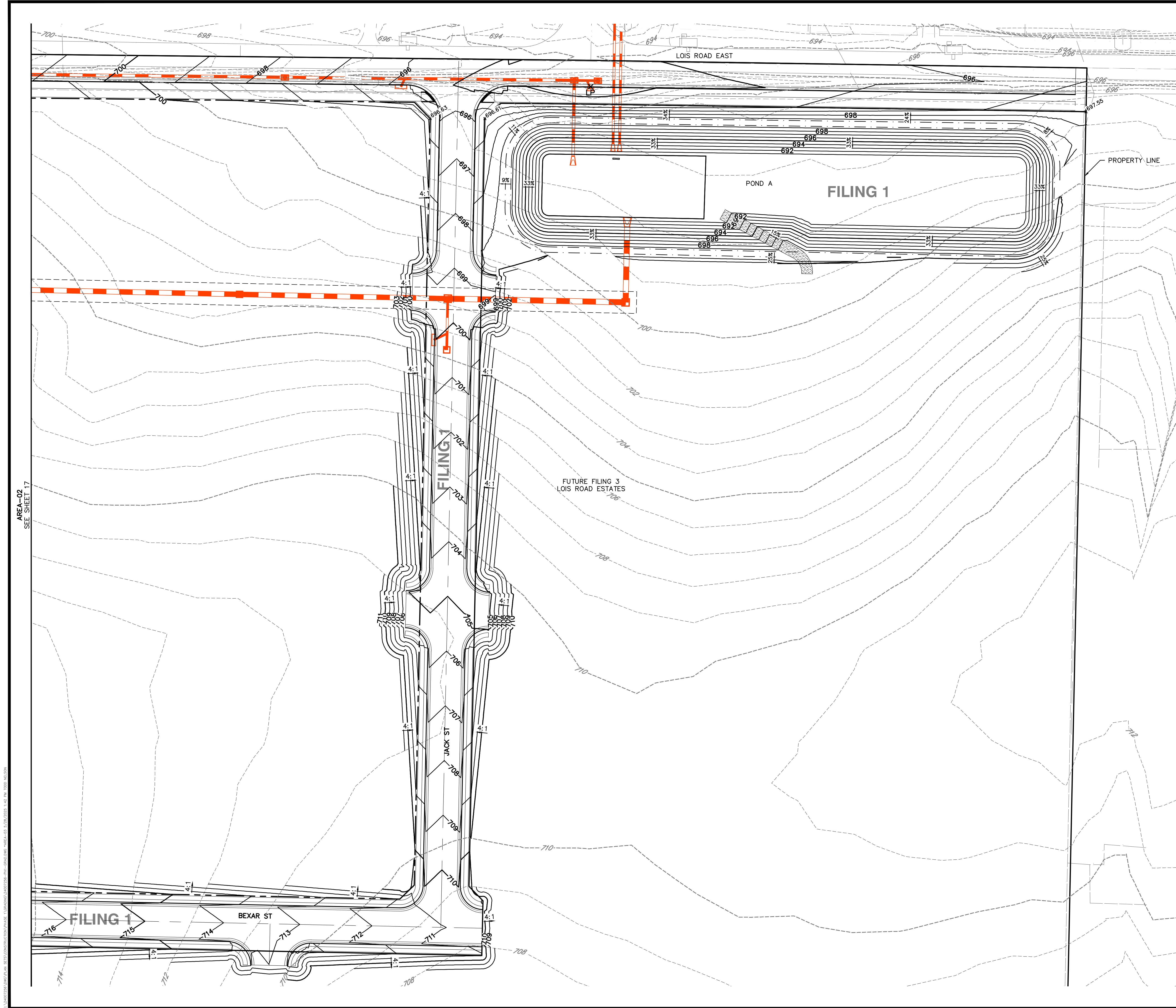
REVISIONS

DR.	TN	CH.	KB
P.M.	JF		

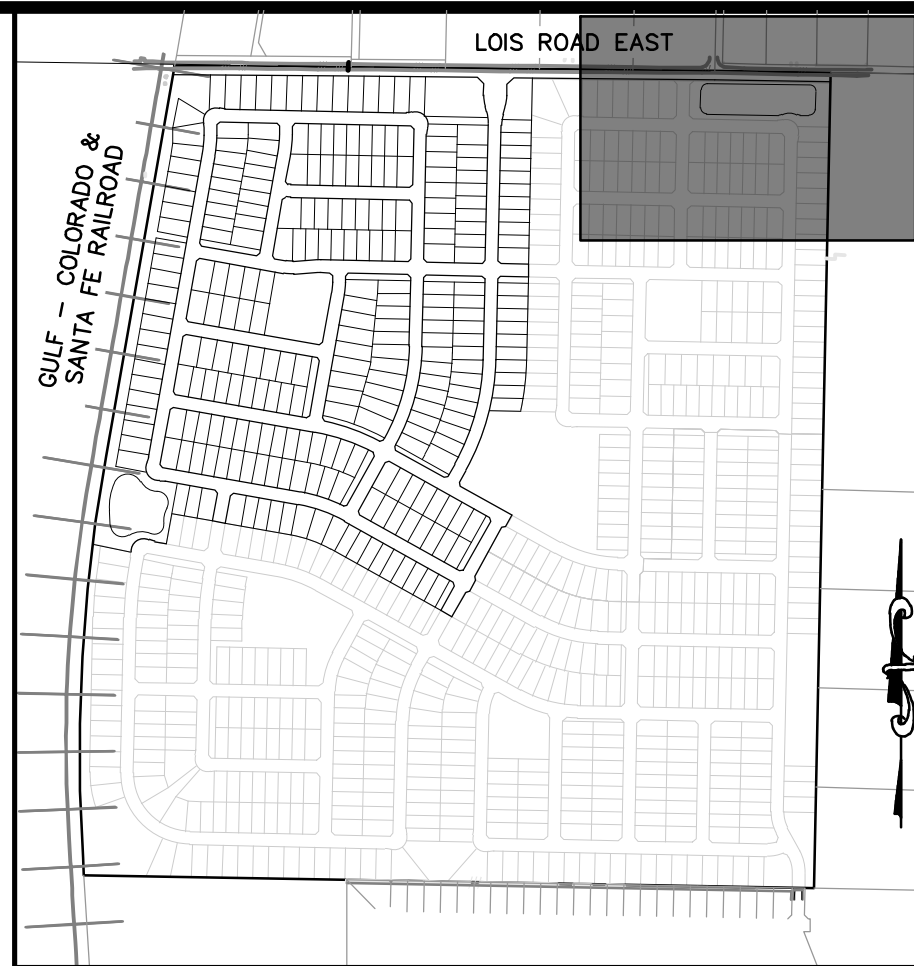
JOB 24007256
SHEET NO.

17

CAD FILE: 24007256-PLAN-GRADING



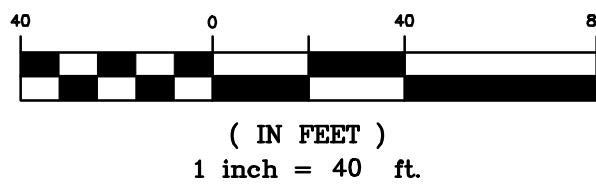
AREA-02
SEE SHEET 17



KEYMAP
1"=750'

LEGEND

- | | |
|--|------------------------------|
| | PROPERTY BOUNDARY |
| | PROPOSED RIGHT-OF-WAY |
| | EXISTING RIGHT-OF-WAY |
| | PROPOSED LOT LINE |
| | EXISTING LOT LINE |
| | PROPOSED CATCH CURB & GUTTER |
| | PROPOSED SPILL CURB & GUTTER |
| | EXISTING CURB & GUTTER |
| | PROPOSED SIDEWALK |
| | EXISTING SIDEWALK |
| | EXISTING SECTION LINE |
| | PROPOSED EASEMENT |
| | EXISTING EASEMENT |
| | PROPOSED CONTOURS |
| | EXISTING CONTOURS |



BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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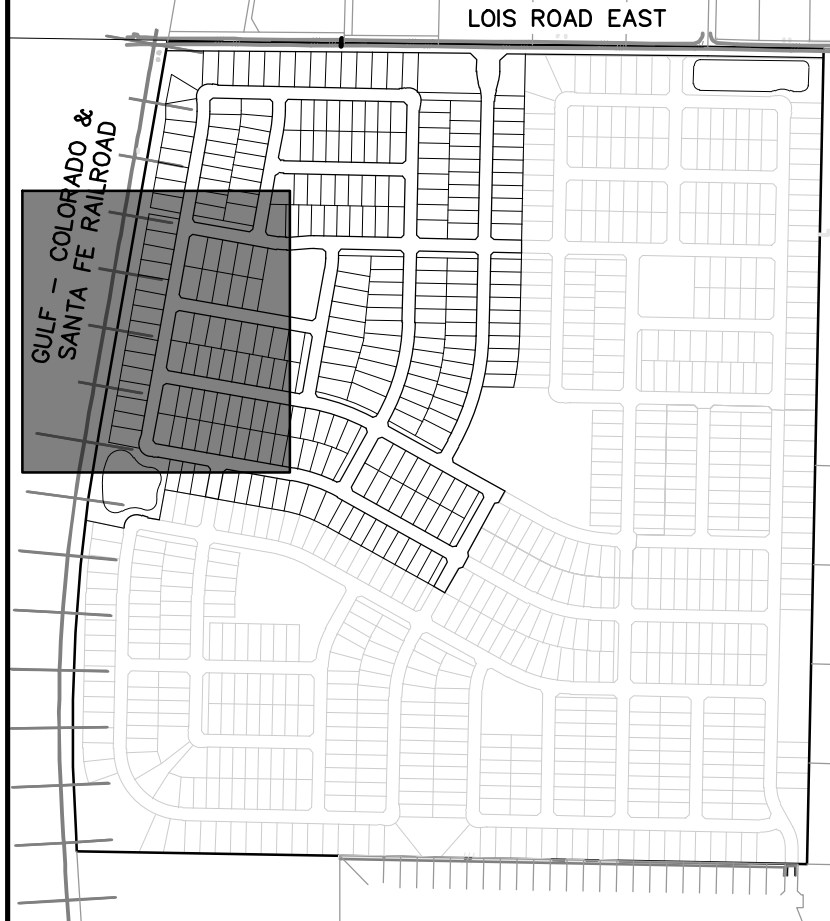
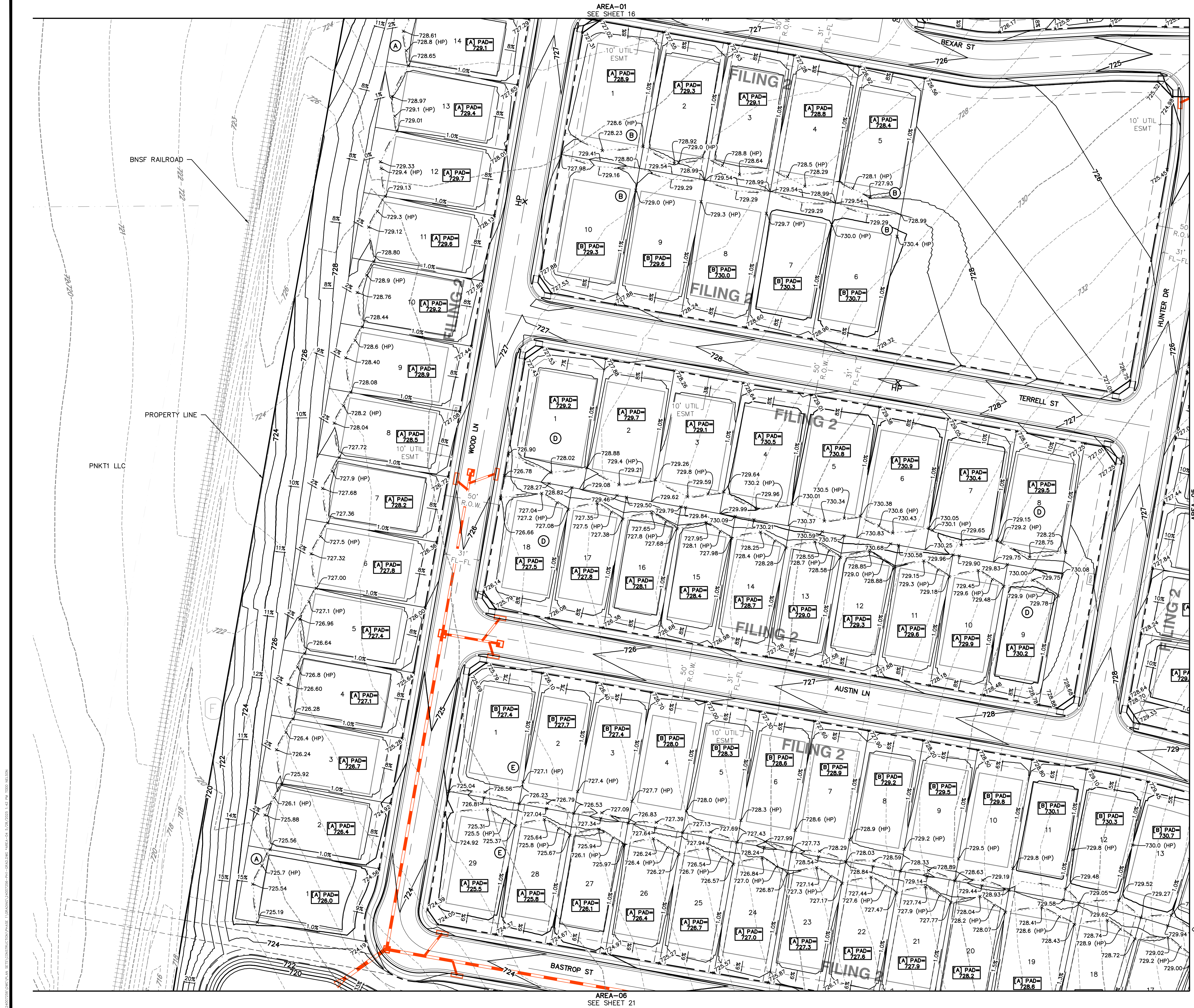
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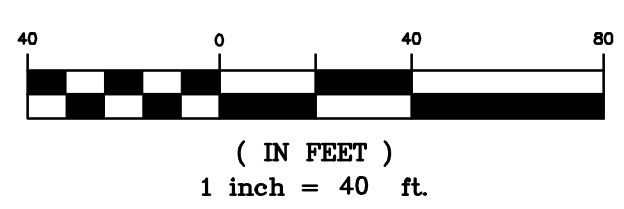
CLIENT	KALTER CAPITAL	KALTER CAPITAL
	LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS	OVERALL GRADING AREA-03
DATE	4/7/2025	
1st SUBMITTAL TO JURISDICTION	4/7/2025 - KMB	
2nd SUBMITTAL TO JURISDICTION	5/12/2025 - KMB	
REVISIONS		
DR. TN CH. KB		
P.M. JF		
JOB 24007256		
SHEET NO.		
18		

CAD FILE: 24007256-FH1-GRAD.DWG



KEYMAP
1"=750'

LEGEND	
	PROPERTY BOUNDARY
	PROPOSED RIGHT-OF-WAY
	EXISTING RIGHT-OF-WAY
	PROPOSED LOT LINE
	EXISTING LOT LINE
	PROPOSED CATCH CURB & GUTTER
	PROPOSED SPILL CURB & GUTTER
	EXISTING CURB & GUTTER
	PROPOSED SIDEWALK
	EXISTING SIDEWALK
	EXISTING SECTION LINE
	PROPOSED EASEMENT
	EXISTING EASEMENT
	PROPOSED CONTOURS
	EXISTING CONTOURS



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303.801.7333	303.801.7333
MICHAEL PRYOR	MICHAEL PRYOR

CLIENT
LOIS ROAD ESTATES - FILING NOS. 1 & 2
CITY OF SANGER, COUNTY OF DENTON,
STATE OF TEXAS

DATE
4/7/2025

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B	2nd SUBMITTAL TO JURISDICTION	5/12/2025	- RMB

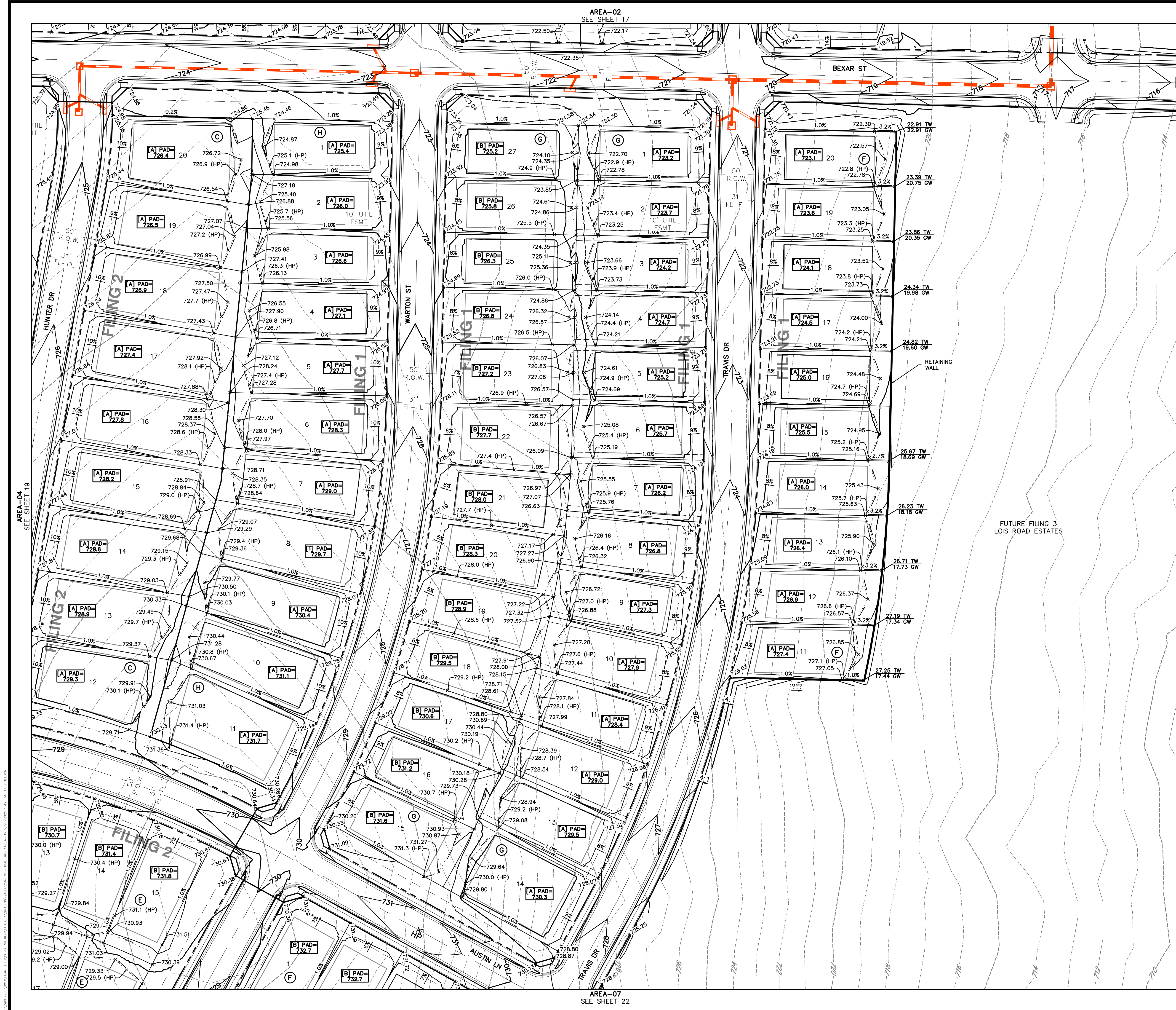
REVISIONS

DR.	TN	CH.	KB
P.M.	JF		

JOB
24007256

SHEET NO.
19

CAD FILE: 24007256-PLAN-GRADING.DWG



LEGEND

---	PROPERTY BOUNDARY
---	PROPOSED RIGHT-OF-WAY
---	EXISTING RIGHT-OF-WAY
---	PROPOSED LOT LINE
---	EXISTING LOT LINE
---	PROPOSED CATCH CURB & GUTTER
---	PROPOSED SPILL CURB & GUTTER
---	EXISTING CURB & GUTTER
---	PROPOSED SIDEWALK
---	EXISTING SIDEWALK
---	EXISTING SECTION LINE
---	PROPOSED EASEMENT
---	EXISTING EASEMENT
---	PROPOSED CONTOURS
---	EXISTING CONTOURS

RETAINING WALL

FUTURE FILING 3
LOIS ROAD ESTATES

BENCHMARK:
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DR. TN CH. KB
P.M. JF
JOB 24007256
SHEET NO. 20

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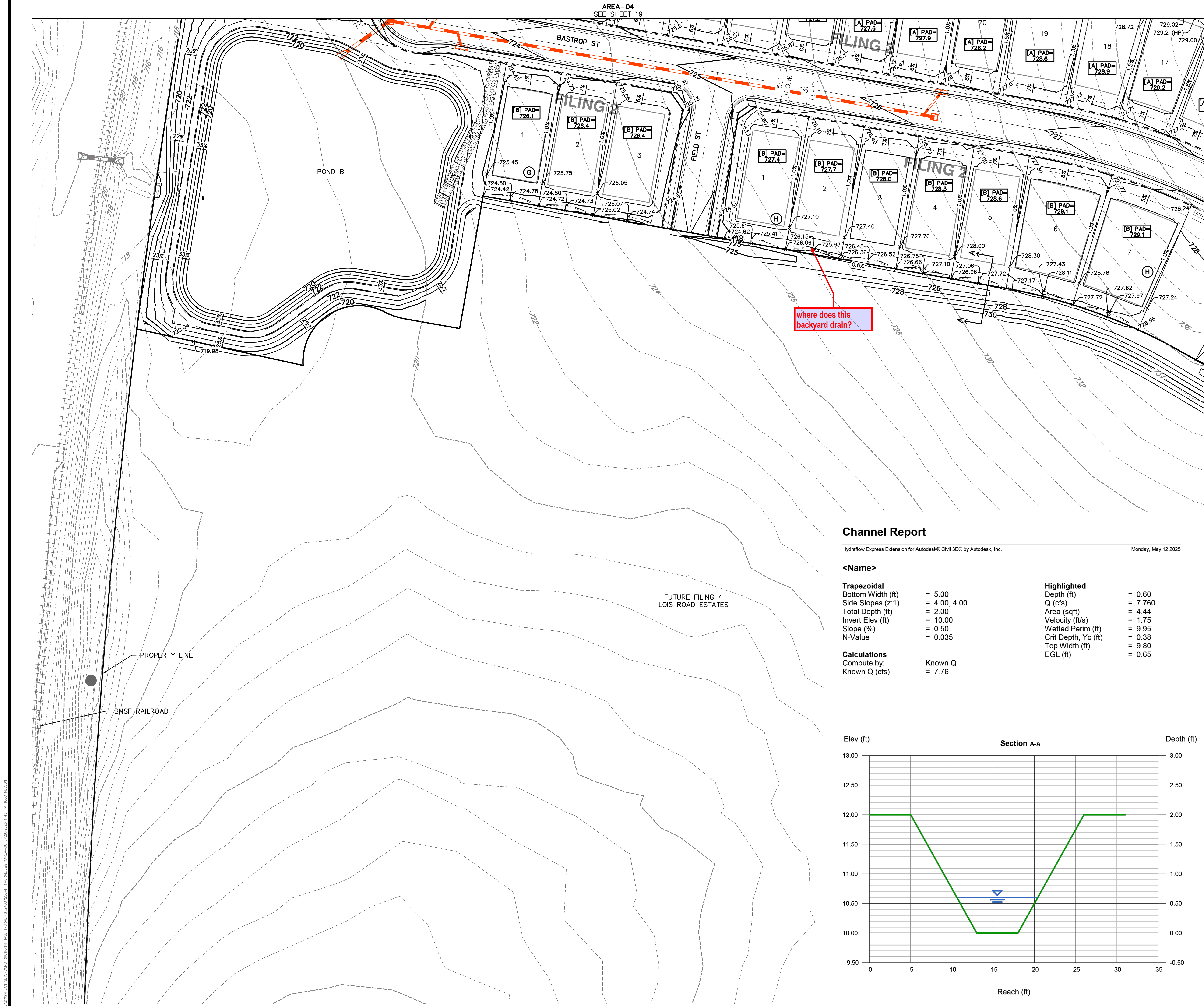
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303.801.7333
MICHAEL PRYOR

KALTER CAPITAL
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STATE OF TEXAS
OVERALL GRADING
AREA-05

DATE 4/7/2025

1st SUBMITTAL TO JURISDICTION 4/7/2025 - RMB
2nd SUBMITTAL TO JURISDICTION 5/17/2025 - RMB

REVISIONS



KEYMAP
1"=750'

LEGEND

---	PROPERTY BOUNDARY
- - - -	PROPOSED RIGHT-OF-WAY
- - - -	EXISTING RIGHT-OF-WAY
---	PROPOSED LOT LINE
---	EXISTING LOT LINE
---	PROPOSED CATCH CURB & GUTTER
---	PROPOSED SPILL CURB & GUTTER
---	EXISTING CURB & GUTTER
---	PROPOSED SIDEWALK
---	EXISTING SIDEWALK
---	EXISTING SECTION LINE
---	PROPOSED EASEMENT
---	EXISTING EASEMENT
---	PROPOSED CONTOURS
---	EXISTING CONTOURS

Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

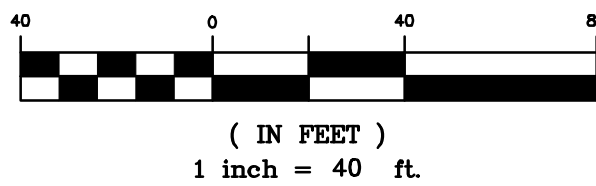
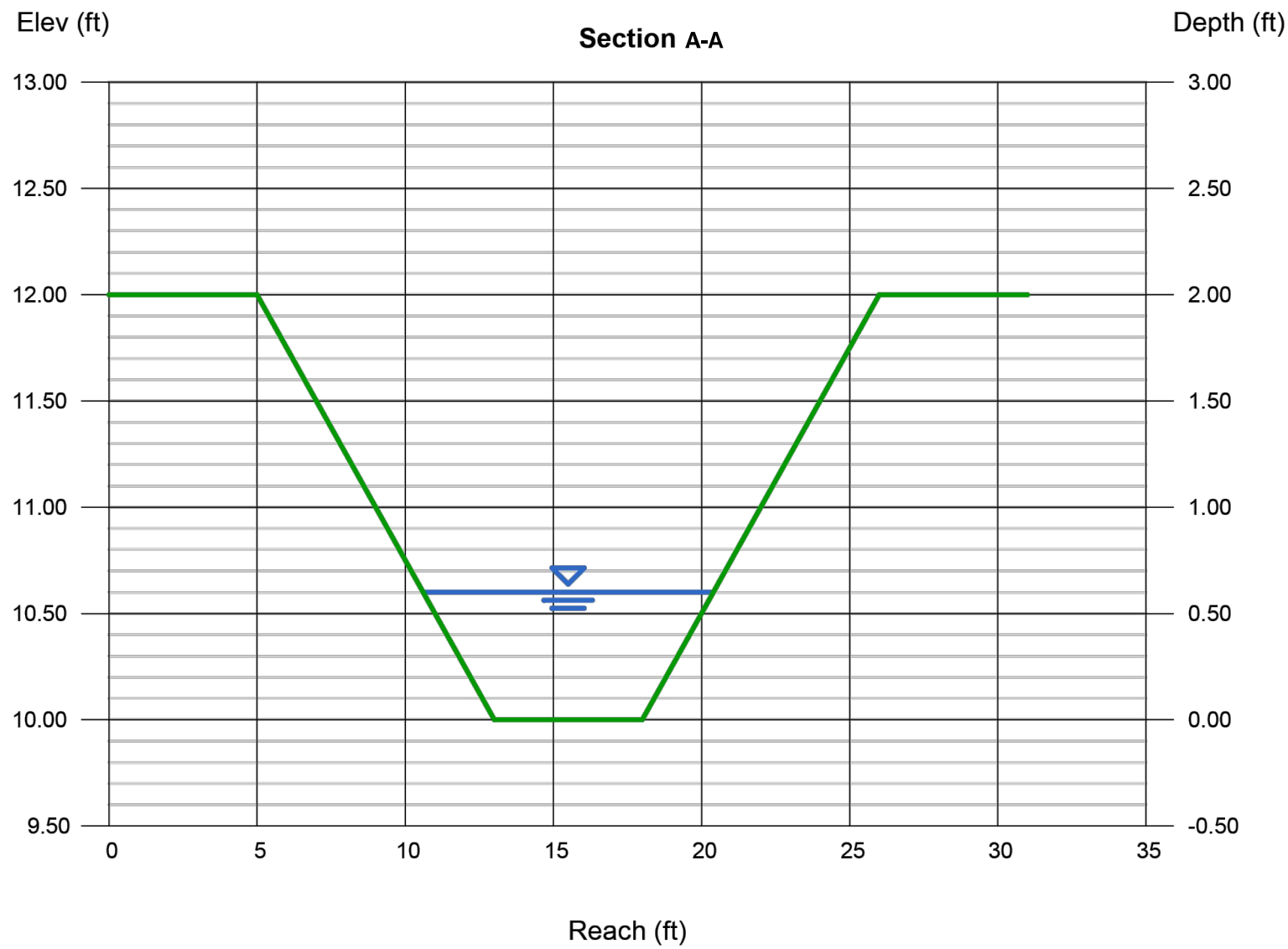
Monday, May 12 2025

<Name>

Trapezoidal	
Bottom Width (ft)	= 5.00
Side Slopes (z:1)	= 4.00, 4.00
Total Depth (ft)	= 2.00
Invert Elev (ft)	= 10.00
Slope (%)	= 0.50
N-Value	= 0.035

Calculations	
Compute by:	Known Q
Known Q (cfs)	= 7.76

Highlighted	
Depth (ft)	= 0.60
Q (cfs)	= 7.760
Area (sqft)	= 4.44
Velocity (ft/s)	= 1.75
Wetted Perim (ft)	= 9.95
Crit Depth, Yc (ft)	= 0.38
Top Width (ft)	= 9.80
EGL (ft)	= 0.65



BENCHMARK:

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303.801.7333
MICHAEL PRYOR

KALTER CAPITAL
LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS
OVERALL GRADING AREA-06

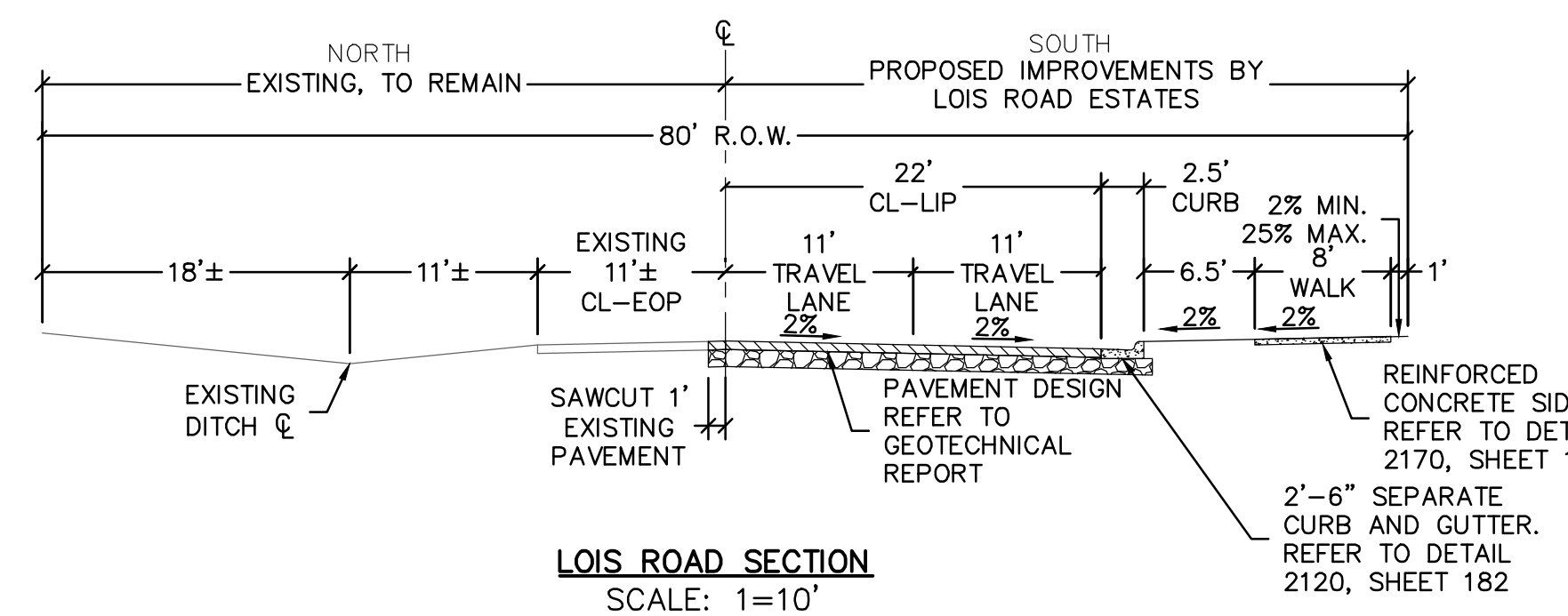
CLIENT
LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS

DATE 4/7/2025

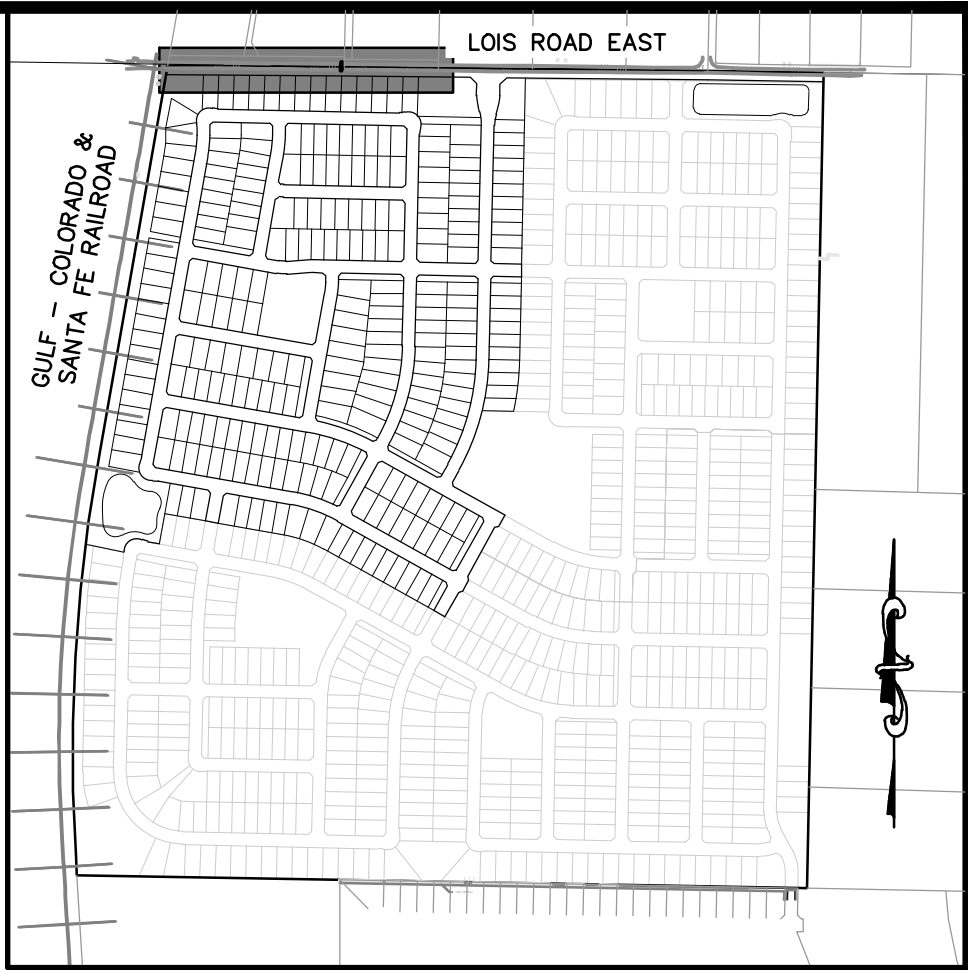
1st SUBMITTAL TO JURISDICTION
4/7/2025 - KMB
2nd SUBMITTAL TO JURISDICTION
5/12/2025 - KMB

REVISIONS

DR.	TN	CH.	KB
P.M.	JF		
JOB	24007256		
SHEET NO.	21		



- ROADWAY CONSTRUCTION NOTES
1. CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 182.
 2. CONSTRUCT MOUNTABLE CURB AND GUTTER. SEE DETAIL 1007B, SHEET 182.
 3. CONSTRUCT 10' CURB TRANSITION.

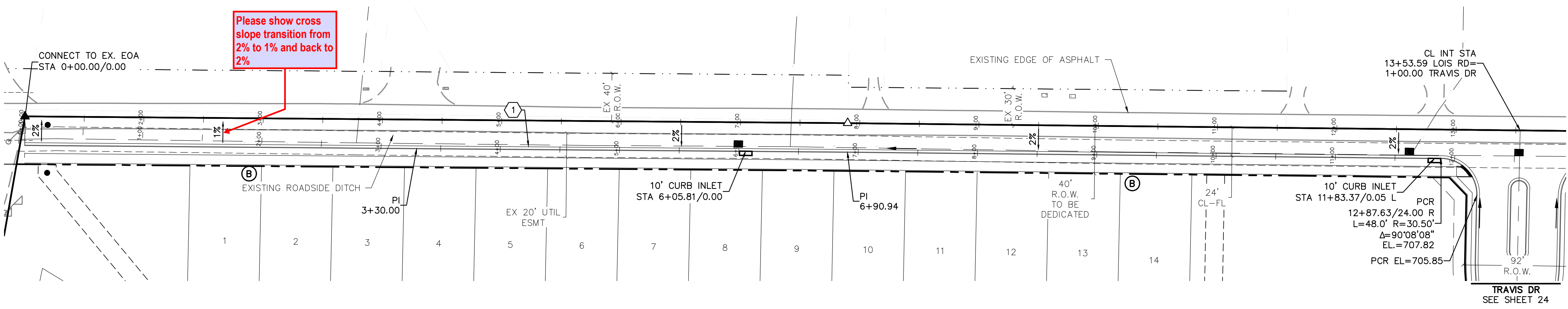


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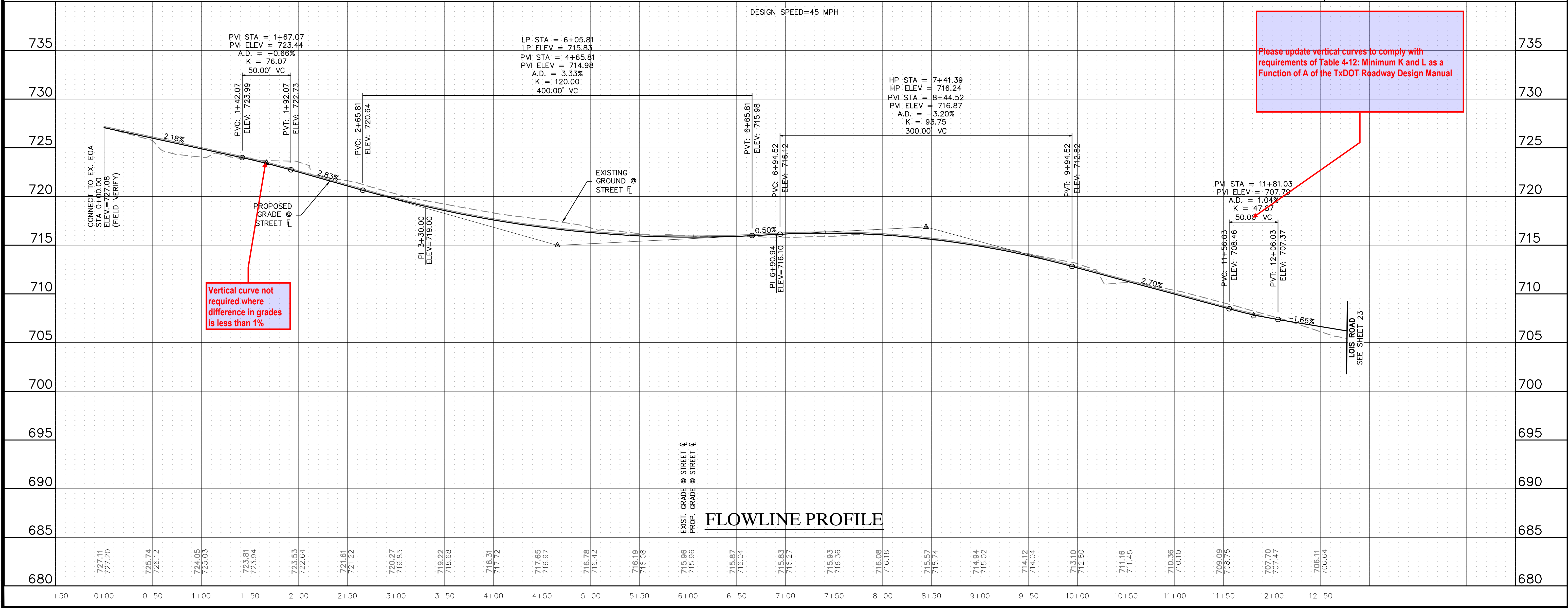
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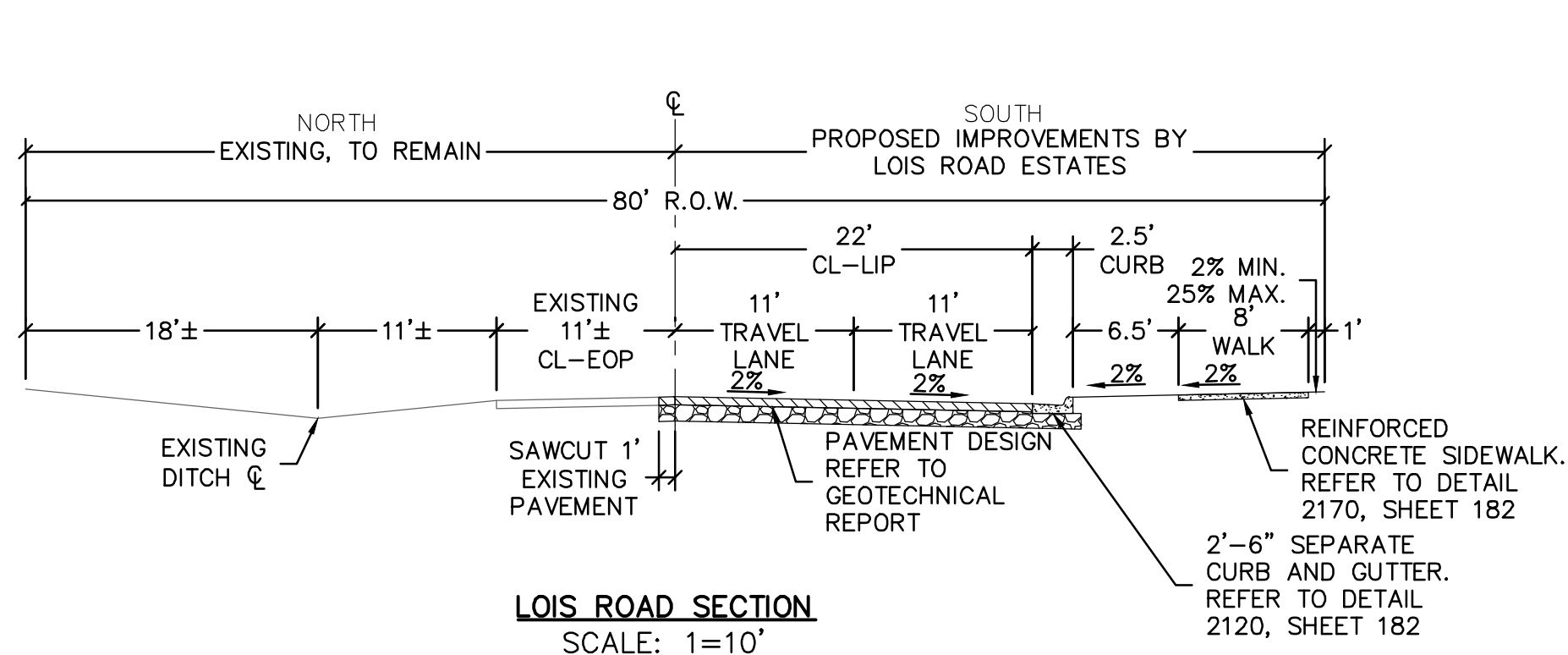
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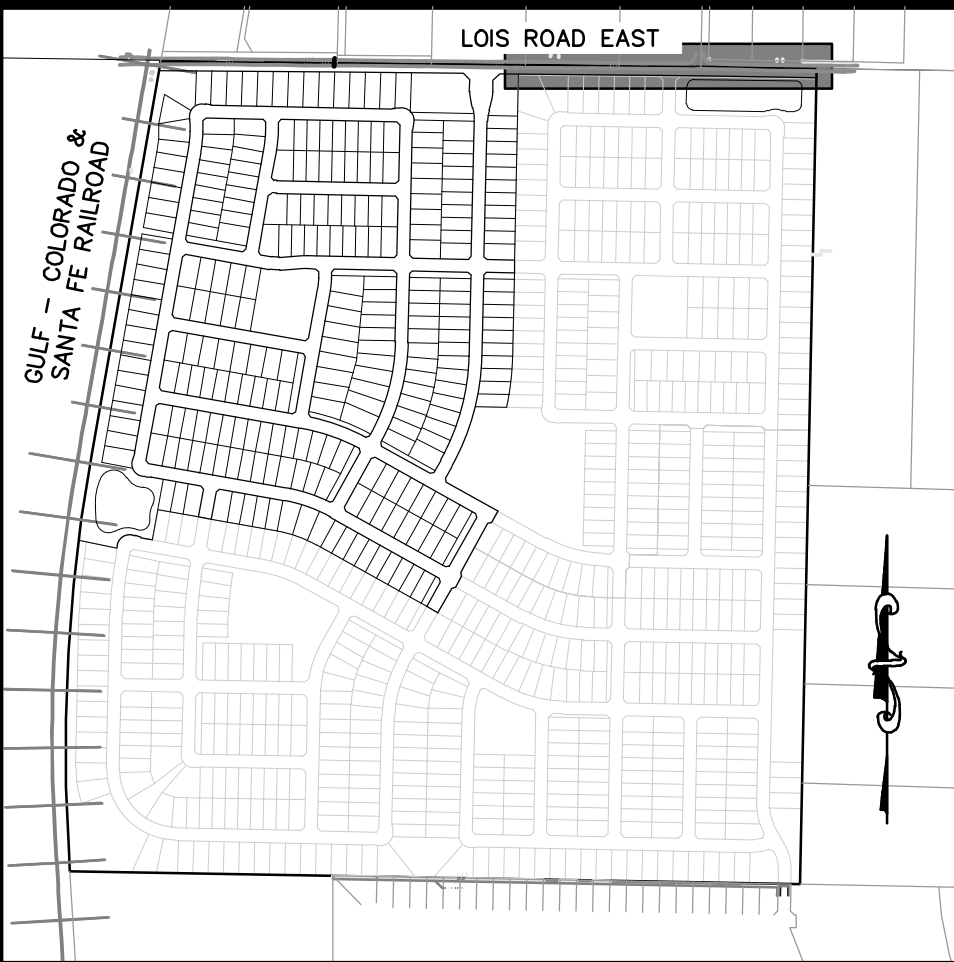


CLIENT	KALTER CAPITAL	KALTER CAPITAL	DATE	4/7/2025
	9788 SOUTH JOHNSON WAY LITTLETON, COLORADO 80127	LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS		
REVISIONS	303.801.7333	STREET PLAN & PROFILES LOIS ROAD	DR.	TN
	MICHAEL PRYOR			
JOB	24007256	SHEET NO.	CH.	KB
	22			

CAD FILE: 24007256-PH1-STRT-PLAN-LOIS ROAD EAST.DWG



- ROADWAY CONSTRUCTION NOTES
1. CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
 2. CONSTRUCT MOUNTABLE CURB AND GUTTER. SEE DETAIL 1007B, SHEET 92.
 3. CONSTRUCT 10' CURB TRANSITION.



KEYMAP
1"=750'

(IN FEET)
1 inch = 50 ft. (Horz)
1 inch = 5 ft. (Vert)

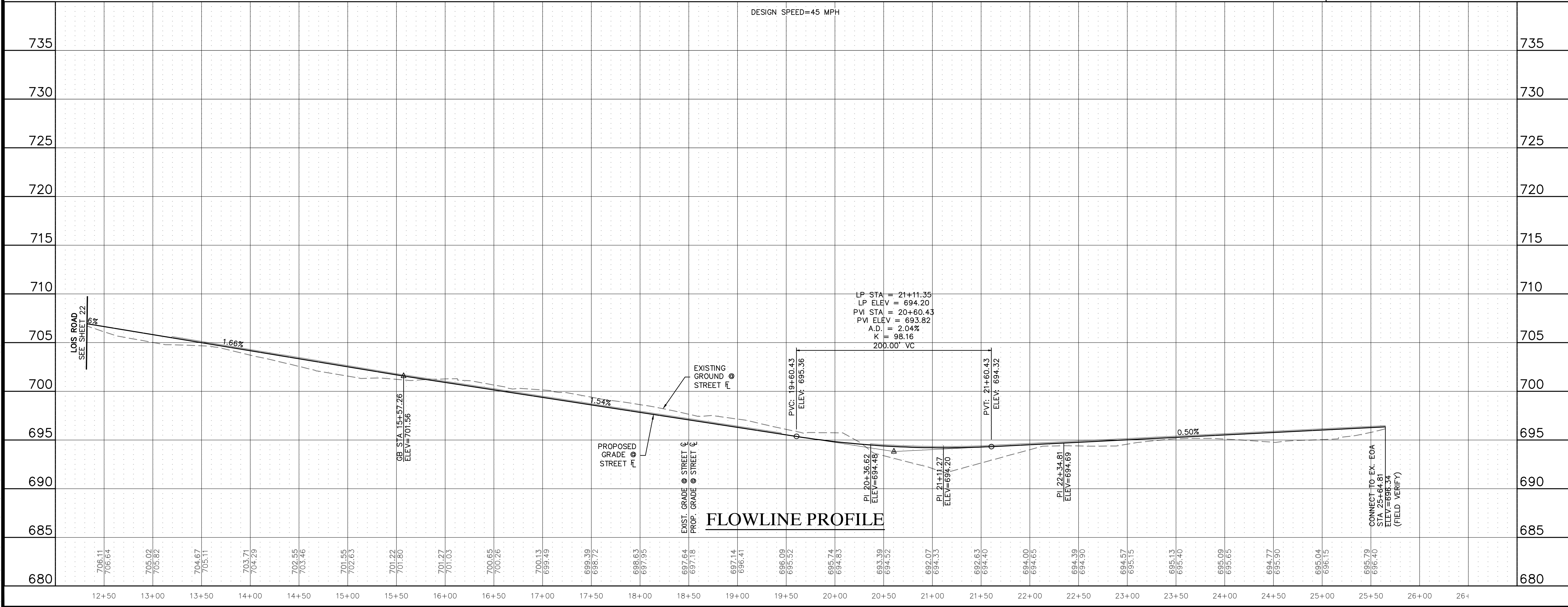
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LOIS ROAD

DESIGN SPEED=45 MPH

FLOWLINE PROFILE



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303.462.1100

CLIENT

KALTER CAPITAL

LOIS ROAD ESTATES - FILING NOS. 1 & 2
CITY OF SANGER, COUNTY OF DENTON,
STATE OF TEXAS

STREET PLAN & PROFILES
LOIS ROAD

DATE

4/7/2025

1st SUBMITTAL TO JURISDICTION
4/7/2025 - KMB

2nd SUBMITTAL TO JURISDICTION
5/12/2025 - KMB

REVISIONS

NO.	DESCRIPTION
-----	-------------

DR. TN

CH. KB

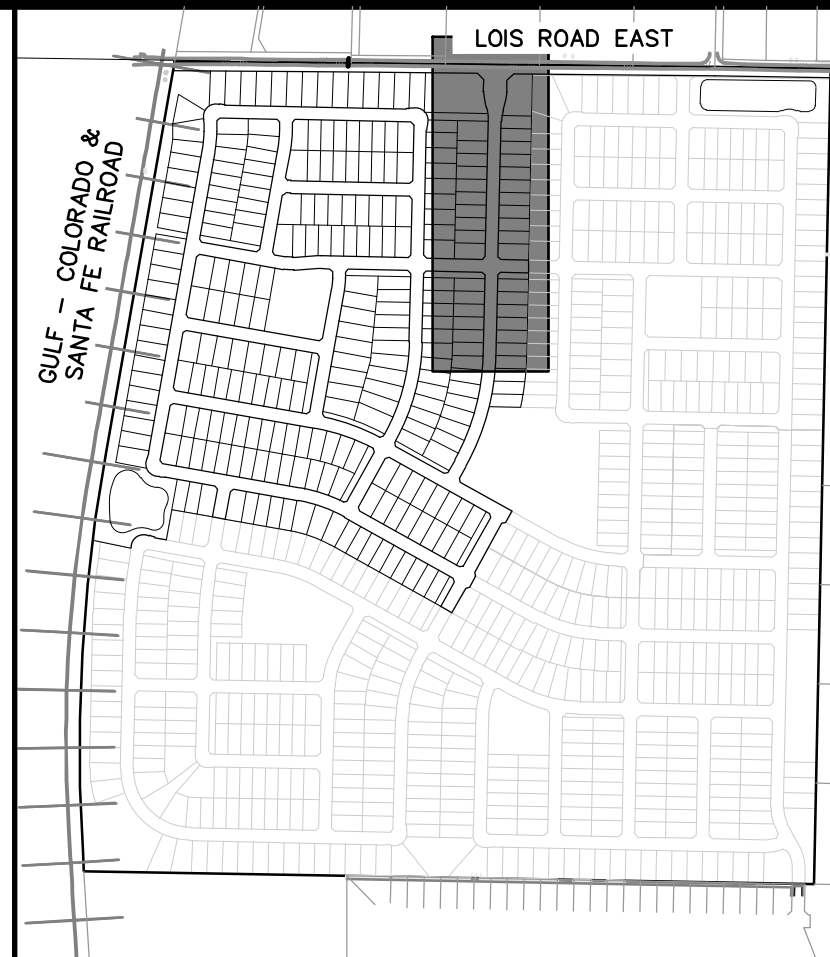
P.M. JF

JOB 24007256

SHEET NO.

23

- 1 CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
- 2 CONSTRUCT MOUNTABLE CURB AND GUTTER. SEE DETAIL 1007B, SHEET 92.
- 3 CONSTRUCT 10' CURB TRANSITION.

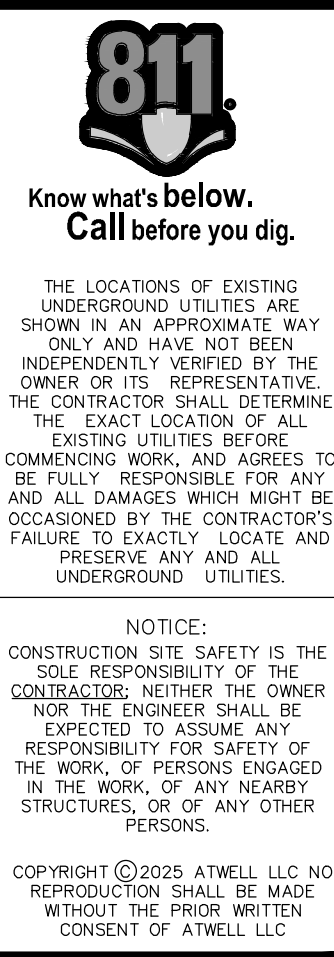


(IN FEET)

1 inch = 50 ft. (Horz)
1 inch = 5 ft. (Vert)

AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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A	1st SUBMITTAL TO JURISDICTION	4/7/2025 - KMB
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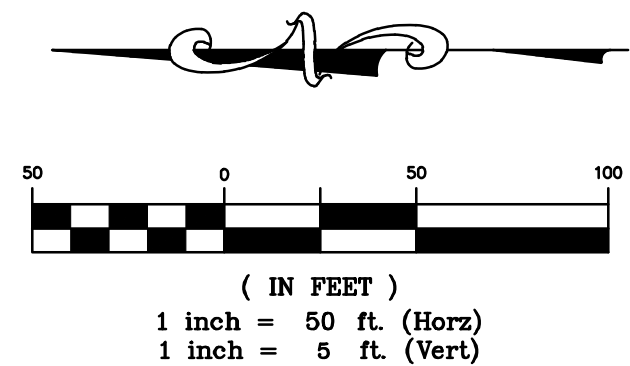
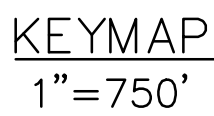
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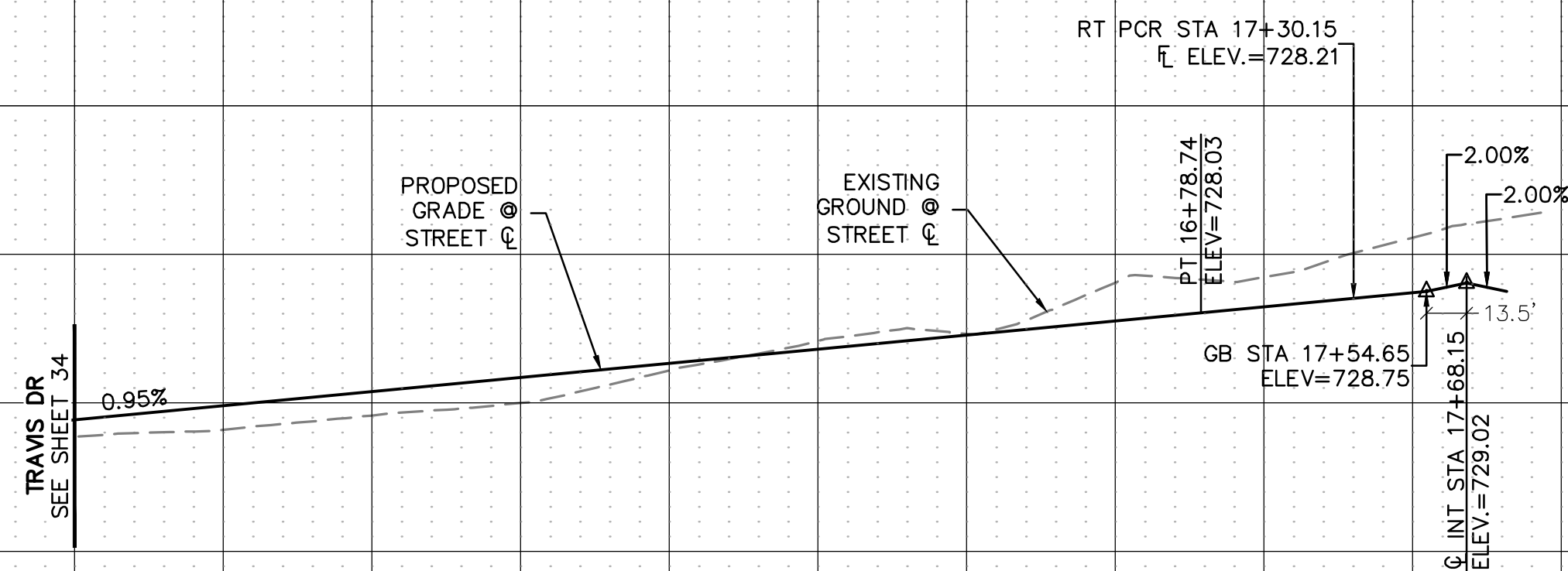
SHEET NO. 24

- 1 CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
- 2 CONSTRUCT MOUNTABLE CURB AND GUTTER. SEE DETAIL 1007B, SHEET 92.
- 3 CONSTRUCT 10' CURB TRANSITION.



AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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Response	Percentage
Strongly agree	35%
Agree	45%
Disagree	15%
Strongly disagree	5%

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CLIENT

DATE 4/7/2025

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B	2 ND SUBMITTAL TO JURISDICTION 5/12/2025 – KMB

REVISIONS

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P.M. JF			

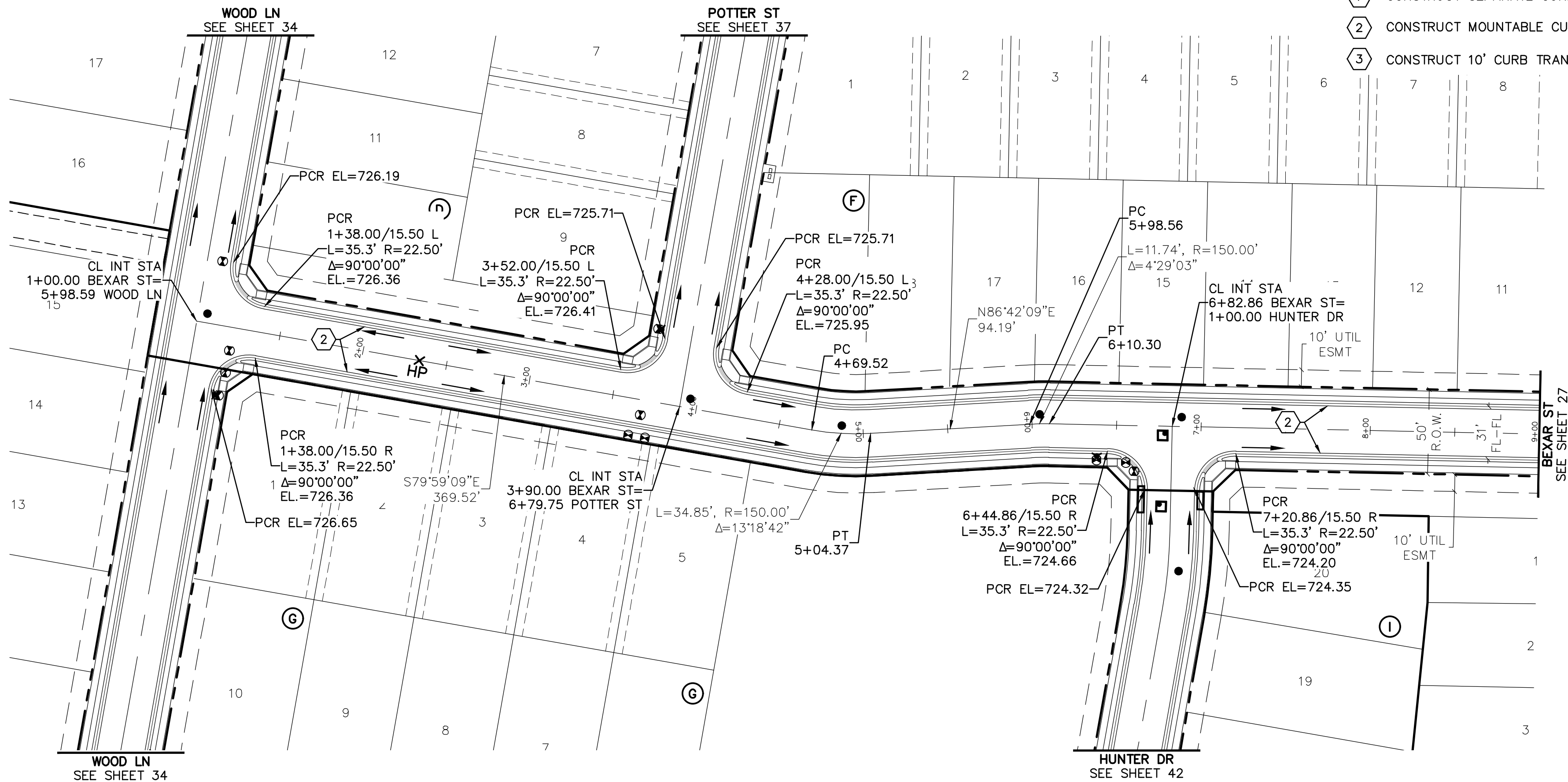
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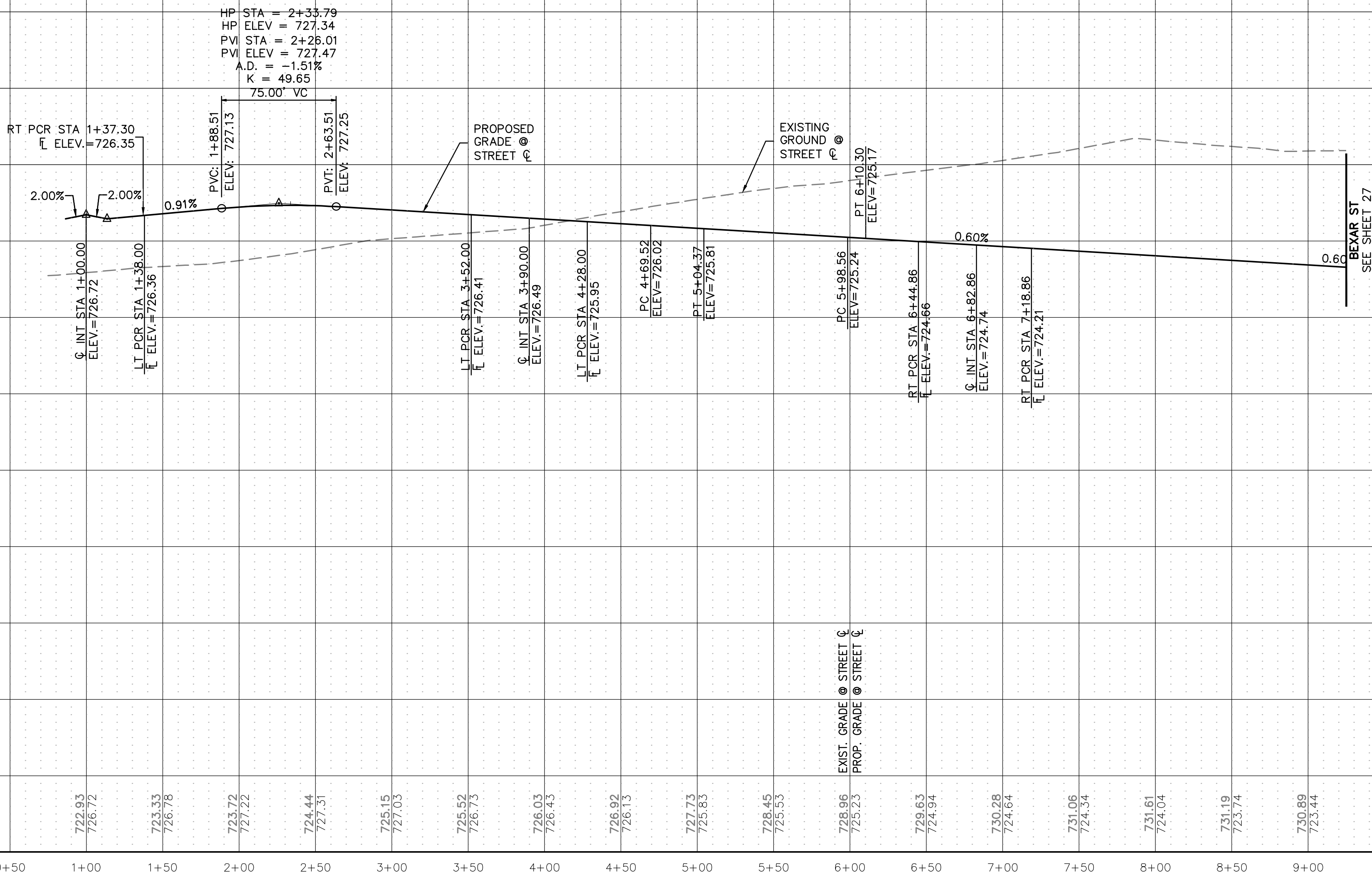
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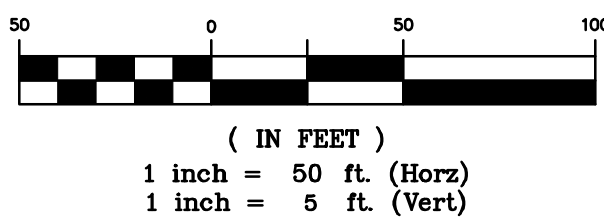


ROADWAY CONSTRUCTION NOTES

1. CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
2. CONSTRUCT MOUNTABLE CURB AND GUTTER. SEE DETAIL 1007B, SHEET 92.
3. CONSTRUCT 10' CURB TRANSITION.



KEYMAP
1"=750'



BENCHMARK:

AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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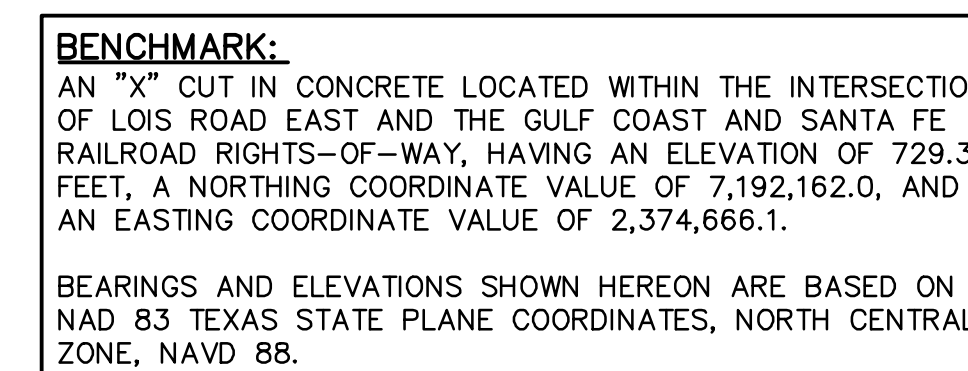
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- 1 CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
- 2 CONSTRUCT MOUNTABLE CURB AND GUTTER. SEE DETAIL 1007B, SHEET 92.
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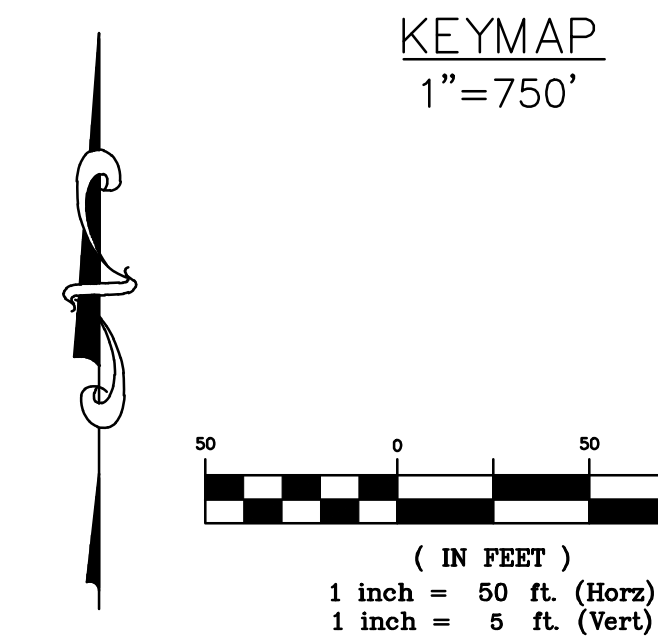
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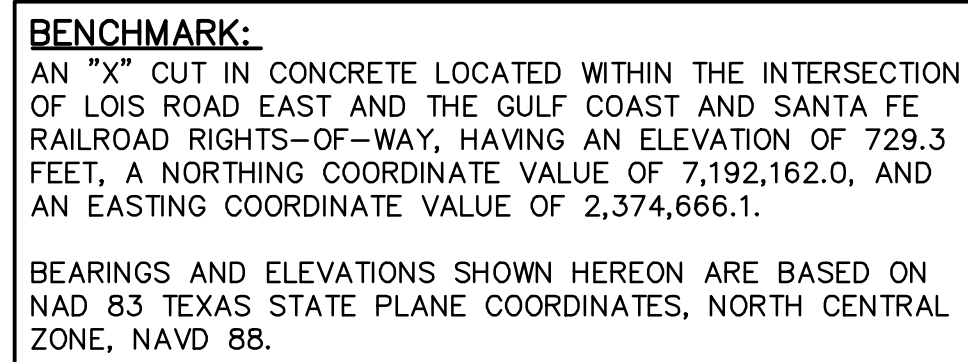
BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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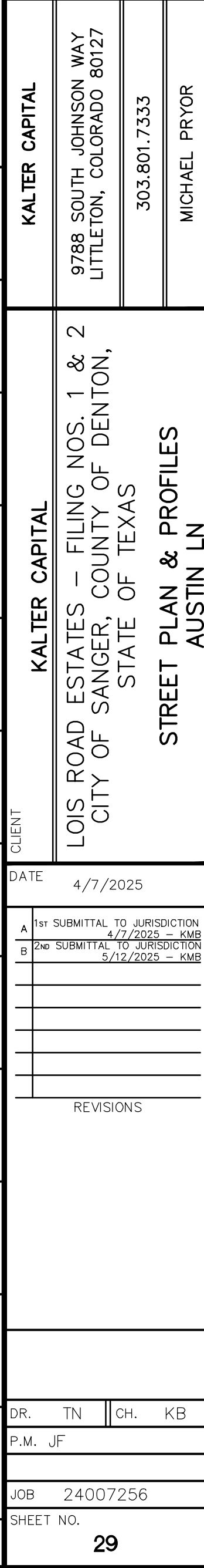
- 1 CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
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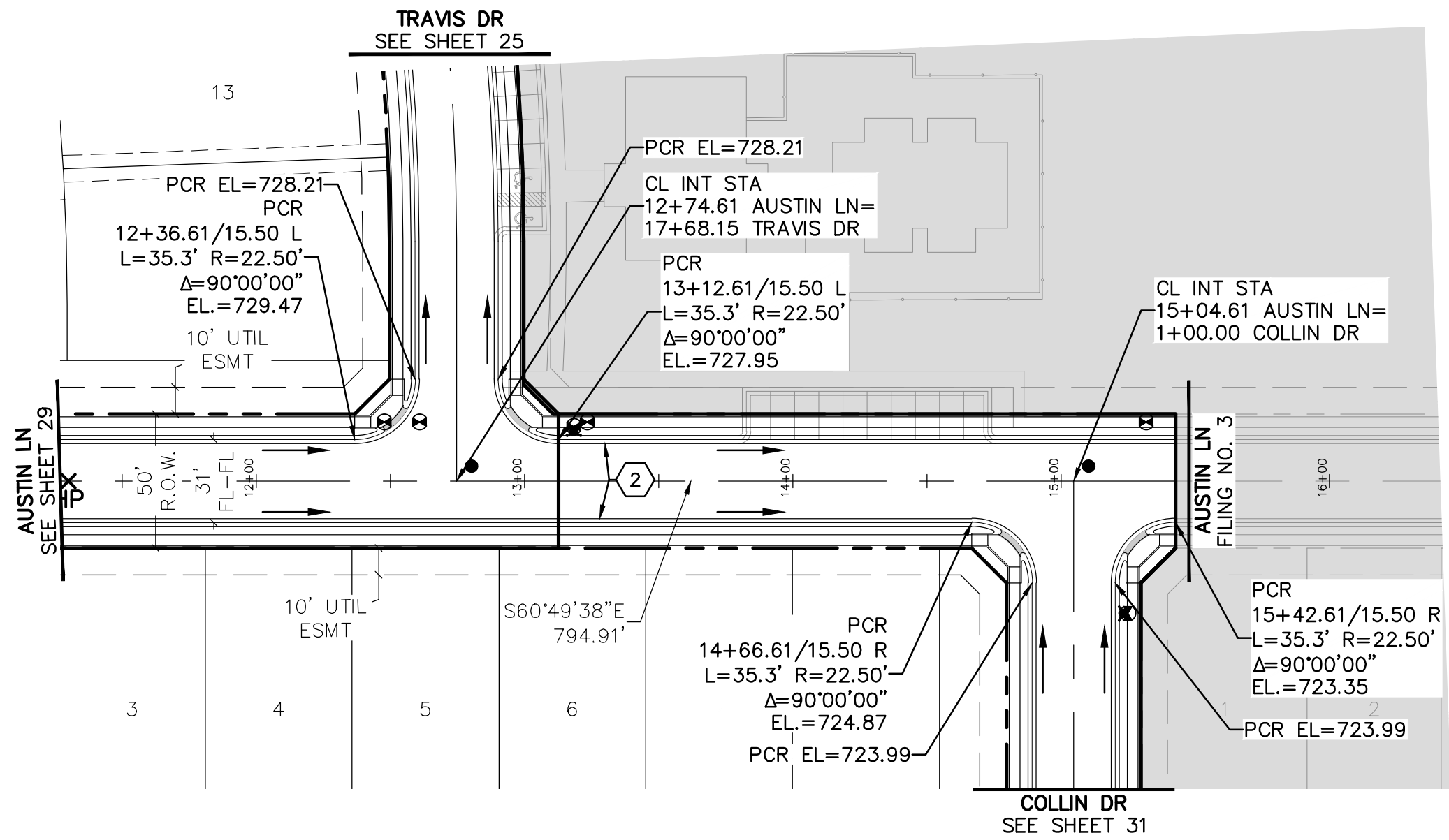


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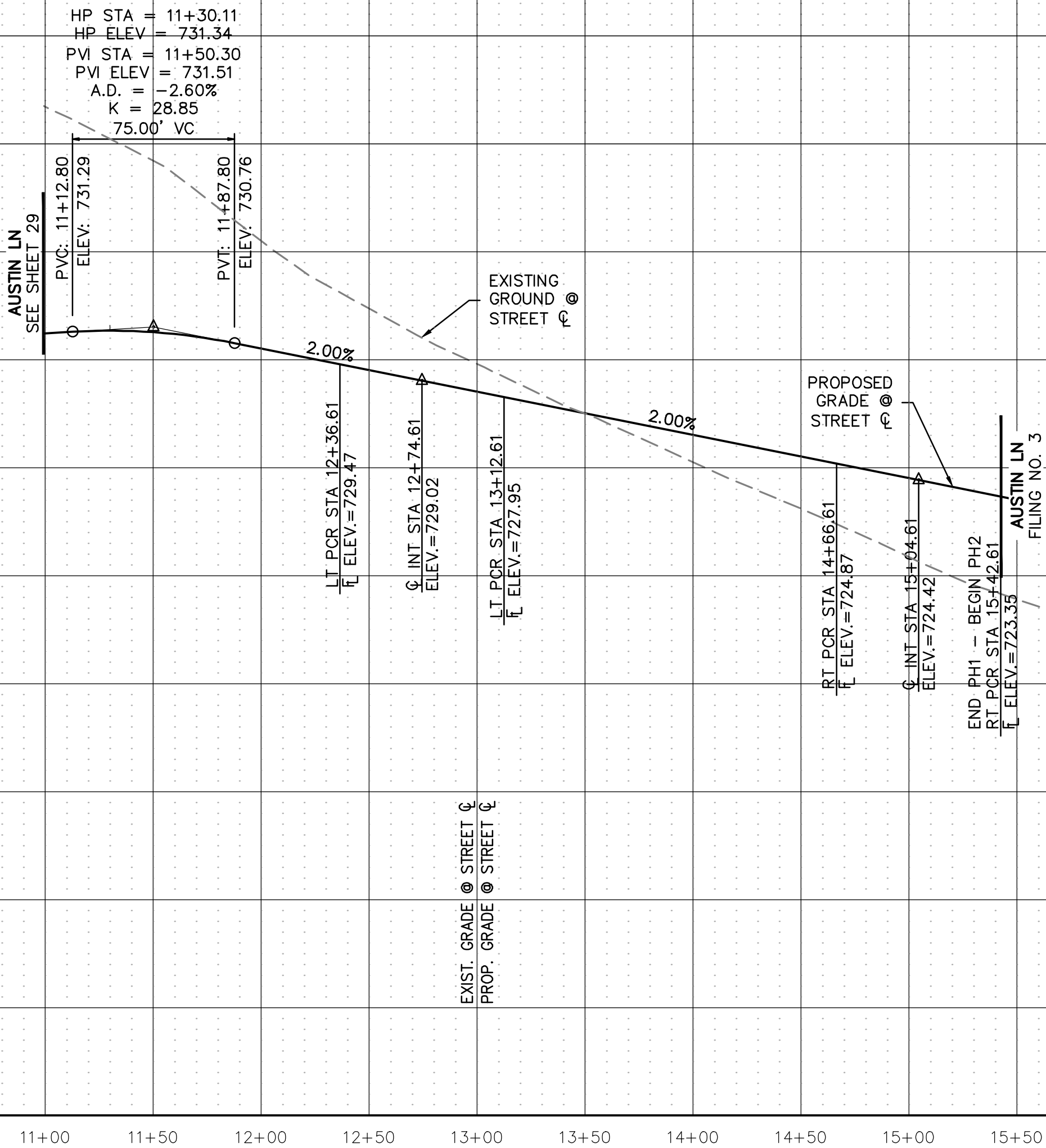
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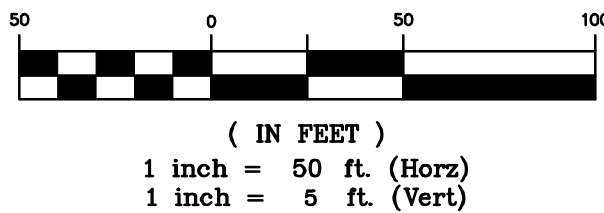
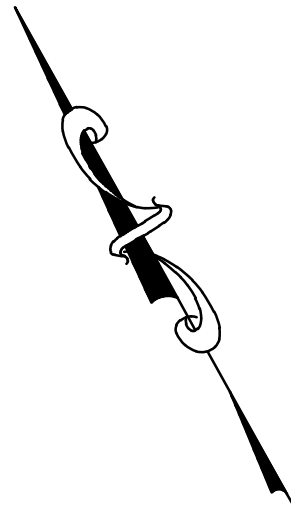


AUSTIN LN

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KEYMAP
1"=750'



BENCHMARK:

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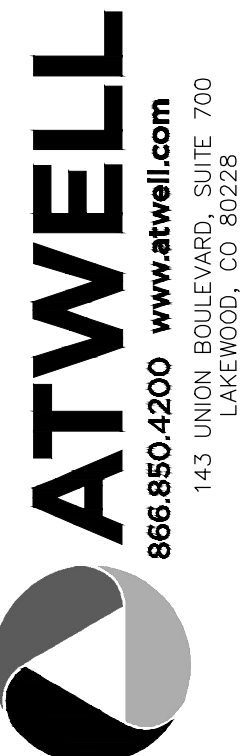
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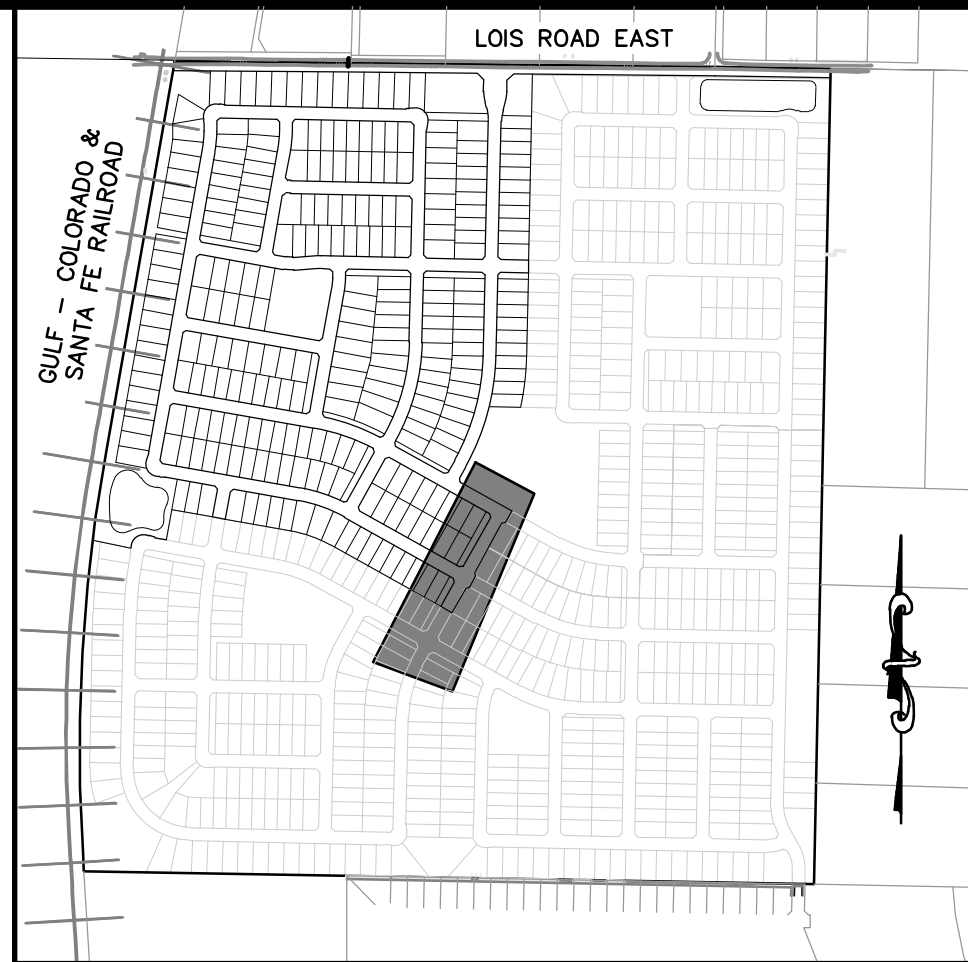
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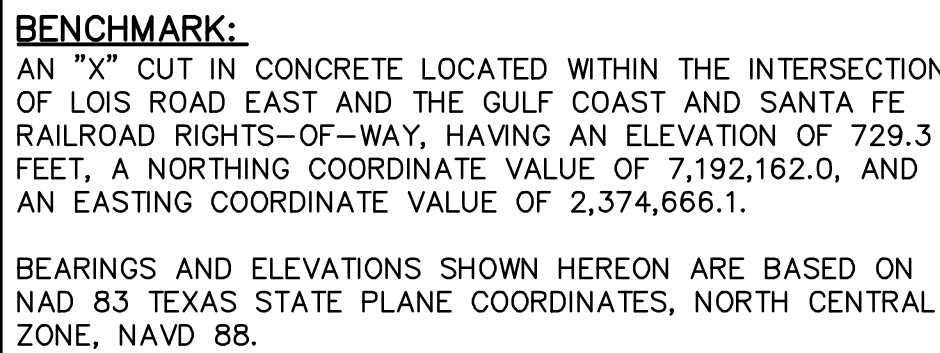


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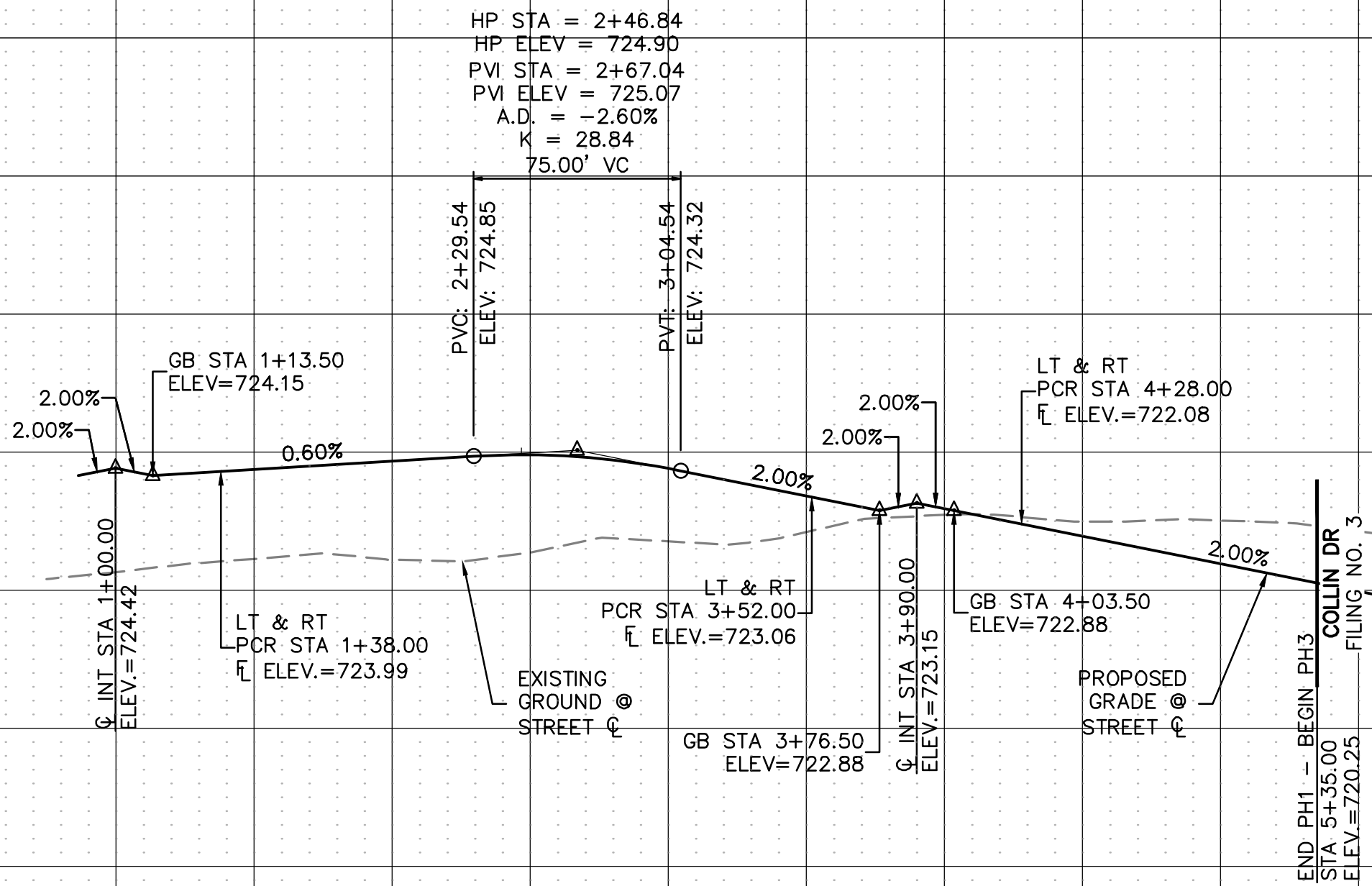
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B	2nd SUBMITTAL TO JURISDICTION 5/12/2025 - KMB

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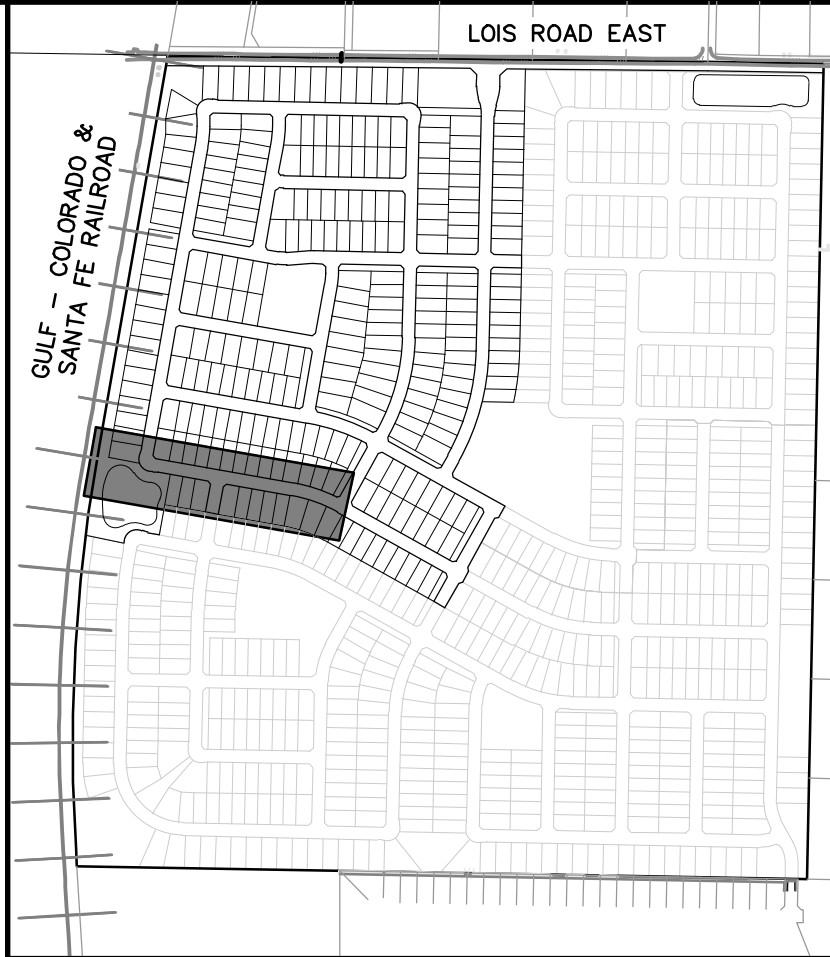
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DR.	TN	CH.	KB
P.M. JF			

JOB 24007256
SHEET NO. 2

- ① CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
- ② CONSTRUCT MOUNTABLE CURB AND GUTTER. SEE DETAIL 1007B, SHEET 92.
- ③ CONSTRUCT 10' CURB TRANSITION.

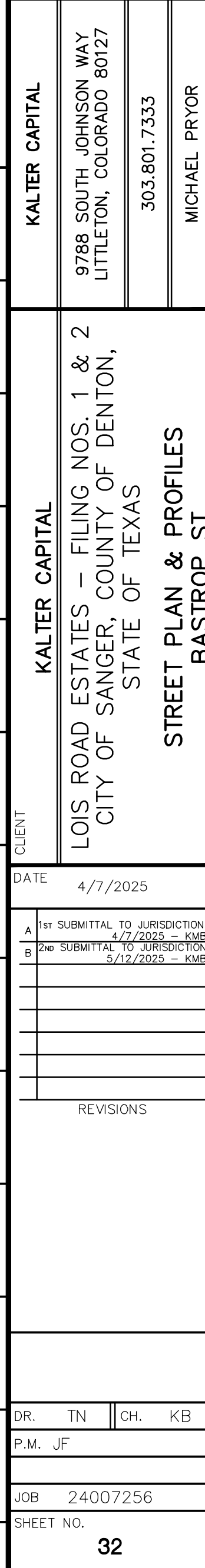


KEYMAP
1" = 750'

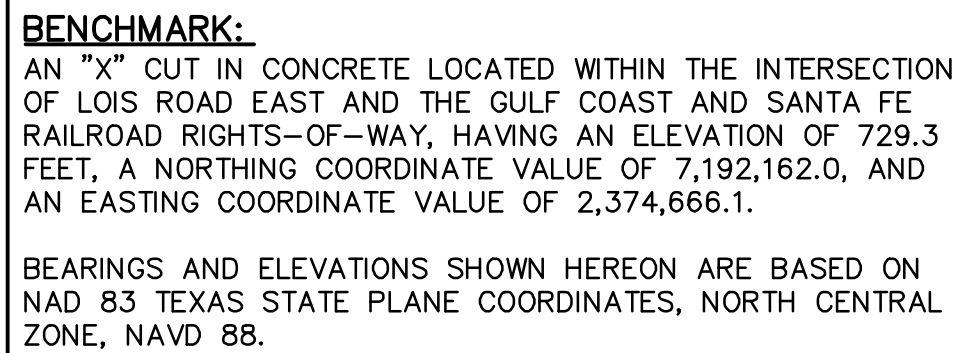

(IN FEET)
1 inch = 50 ft. (Horz)
1 inch = 5 ft. (Vert)

BENCHMARK:
 AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION
 OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE
 RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3
 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND
 AN EASTING COORDINATE VALUE OF 2,374,666.1.

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON
 NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL
 ZONE, NAVD 88.



- 1 CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
- 2 CONSTRUCT MOUNTABLE CURB AND GUTTER. SEE DETAIL 1007B, SHEET 92.
- 3 CONSTRUCT 10' CURB TRANSITION.



DESIGN SPEED=25 MPH



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OF SANGER, COUNTY OF DENTON,
STATE OF TEXAS
STREET PLAN & PROFILES
RASTROP ST

LOIS ROY
CITY OF

DATE 4/7/2025

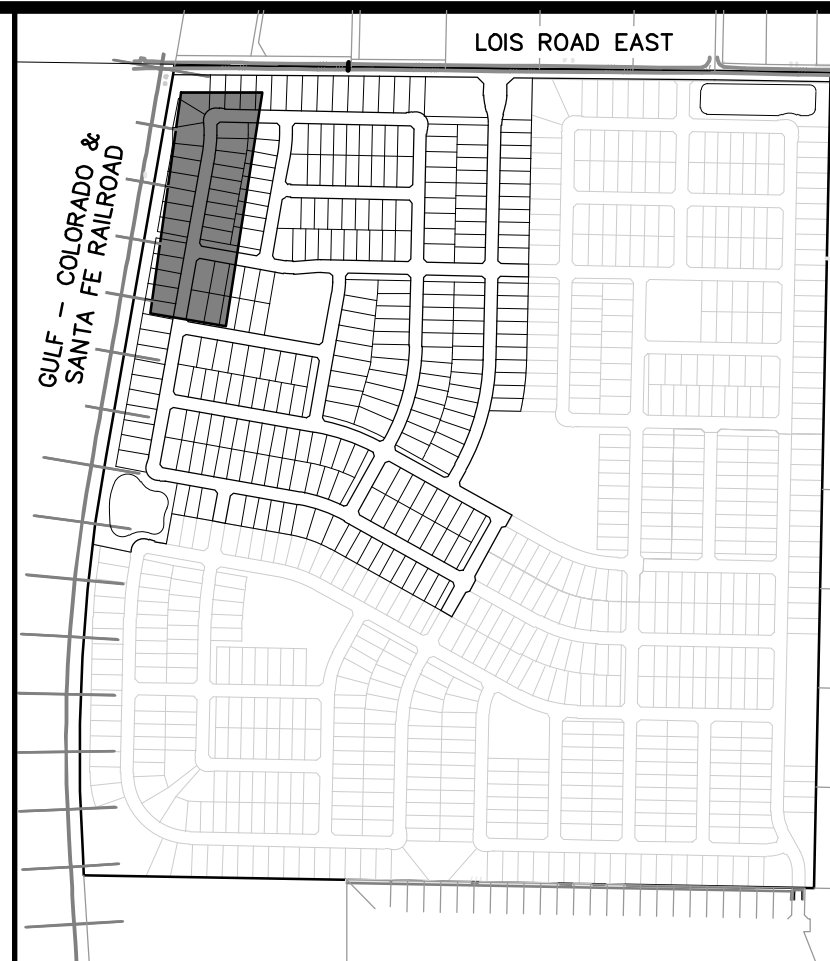
A	1 ST SUBMITTAL TO JURISDICTION 4/7/2025 - KMB
B	2 ND SUBMITTAL TO JURISDICTION 5/12/2025 - KMB

REVISIONS

PR.	TN	CH.	KB
P.M. JF			

OB 24007256

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NOTICE:
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 F SANGER, COUNTY OF DENTON,
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CL

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B	2 ND SUBMITTAL TO JURISDICTION 5/12/2025 - KMB

REVISIONS

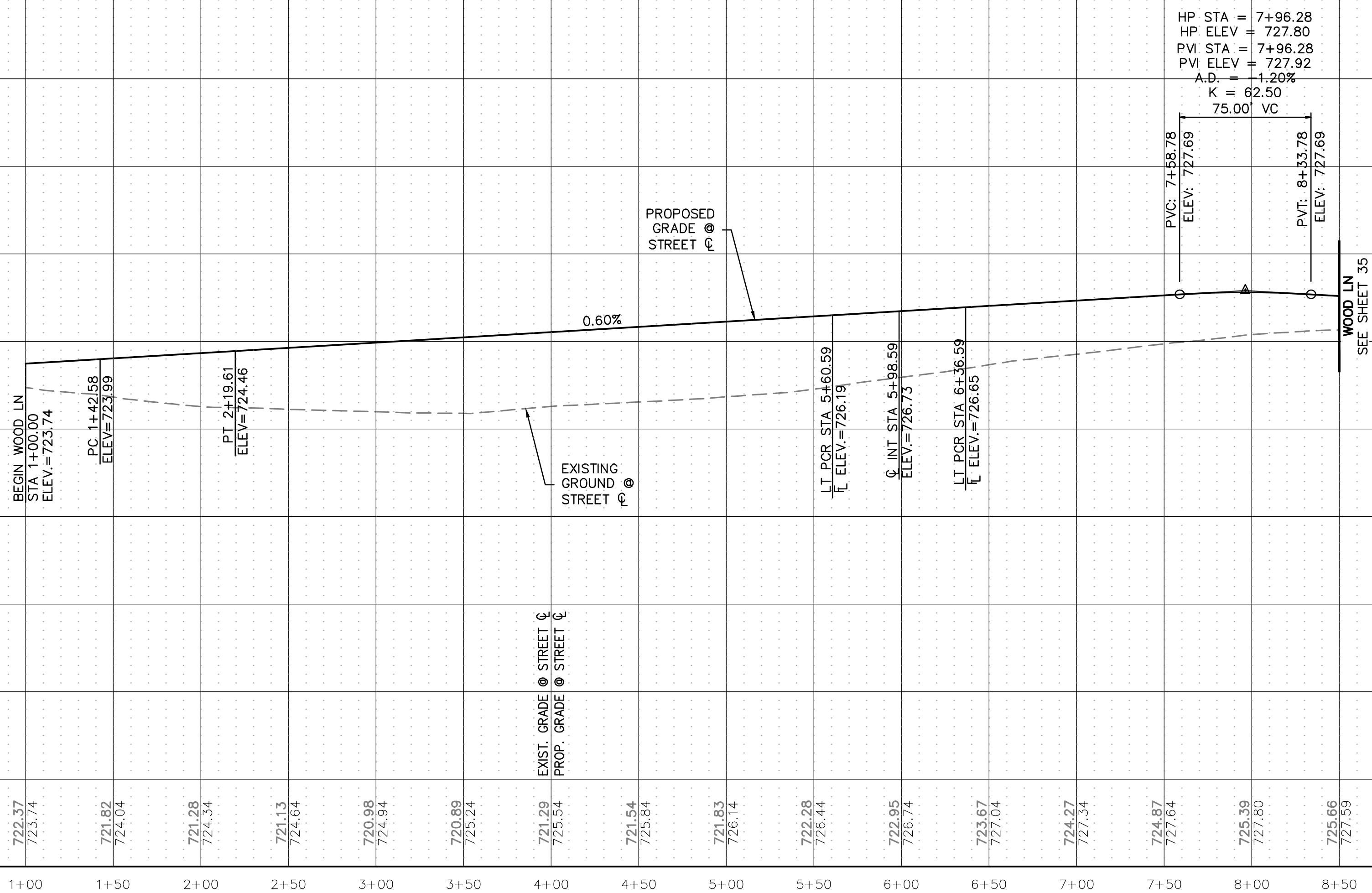
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P.M. JF

SHEET NO.

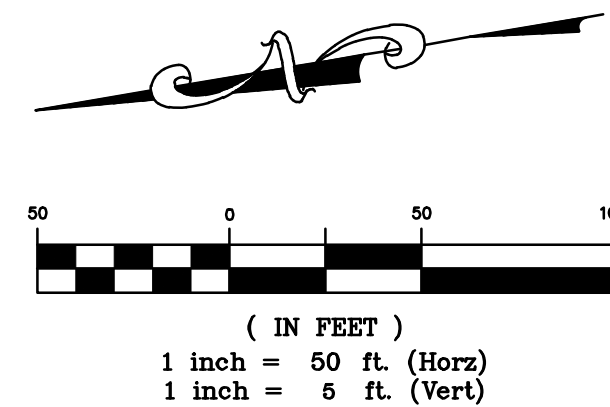
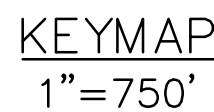
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DESIGN SPEED=25 MPH



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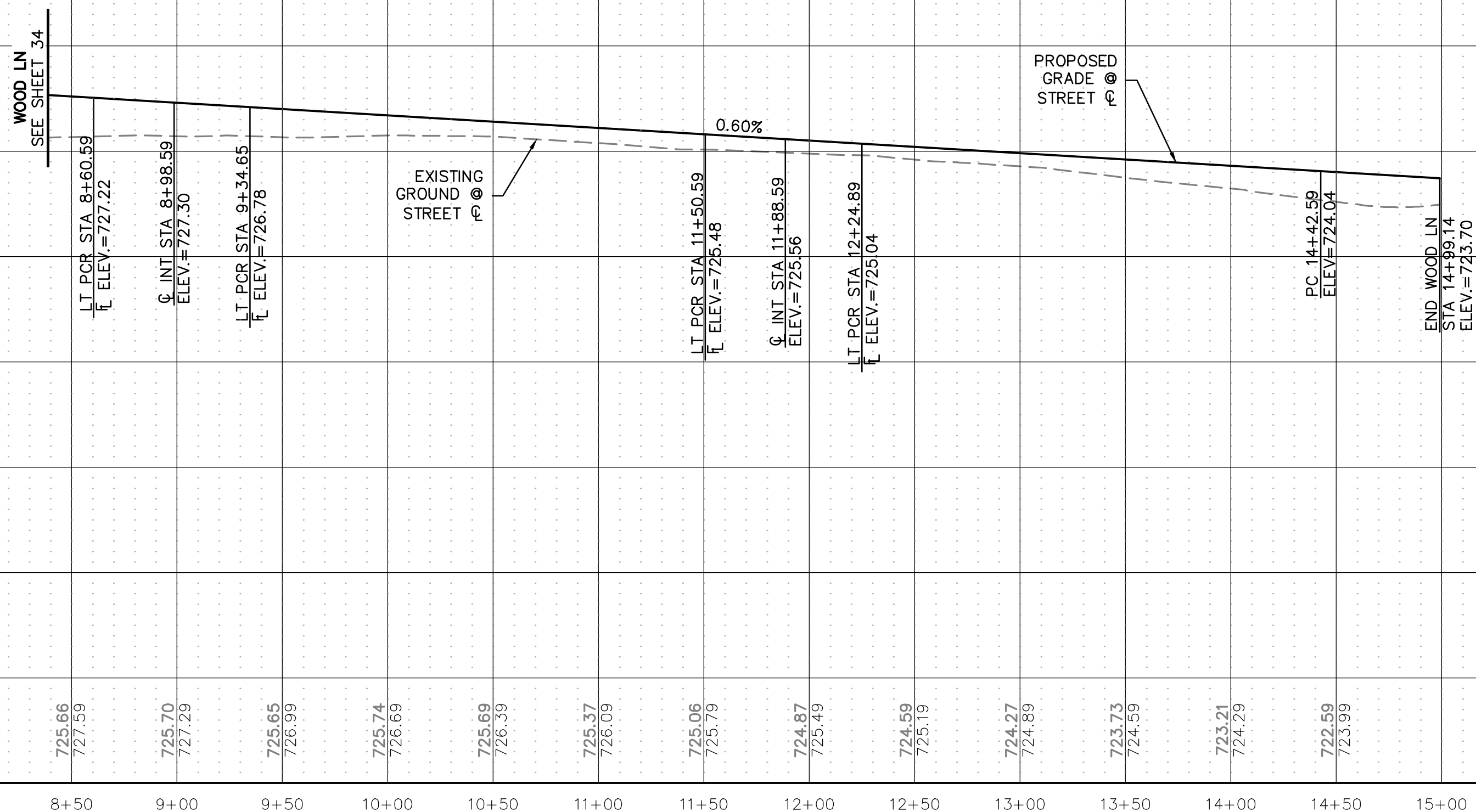
- 1 CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
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ZONE, NAVD 88.

[illegible]

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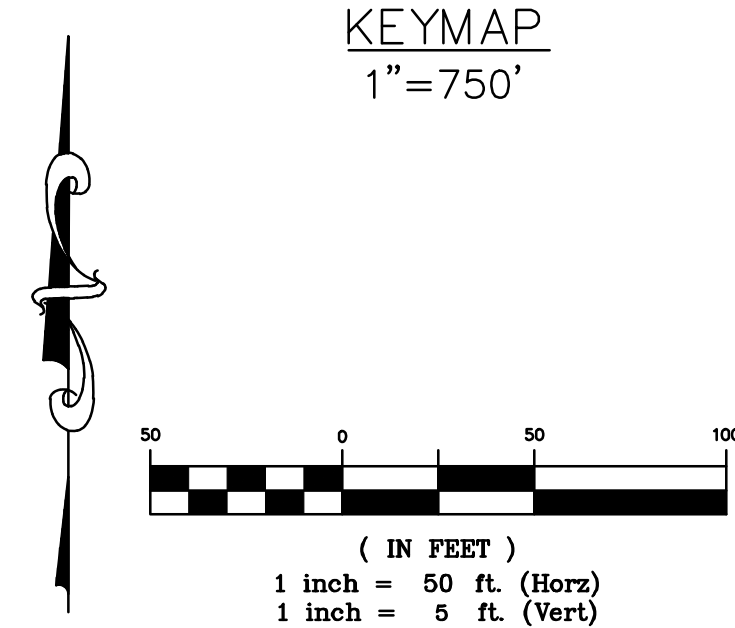
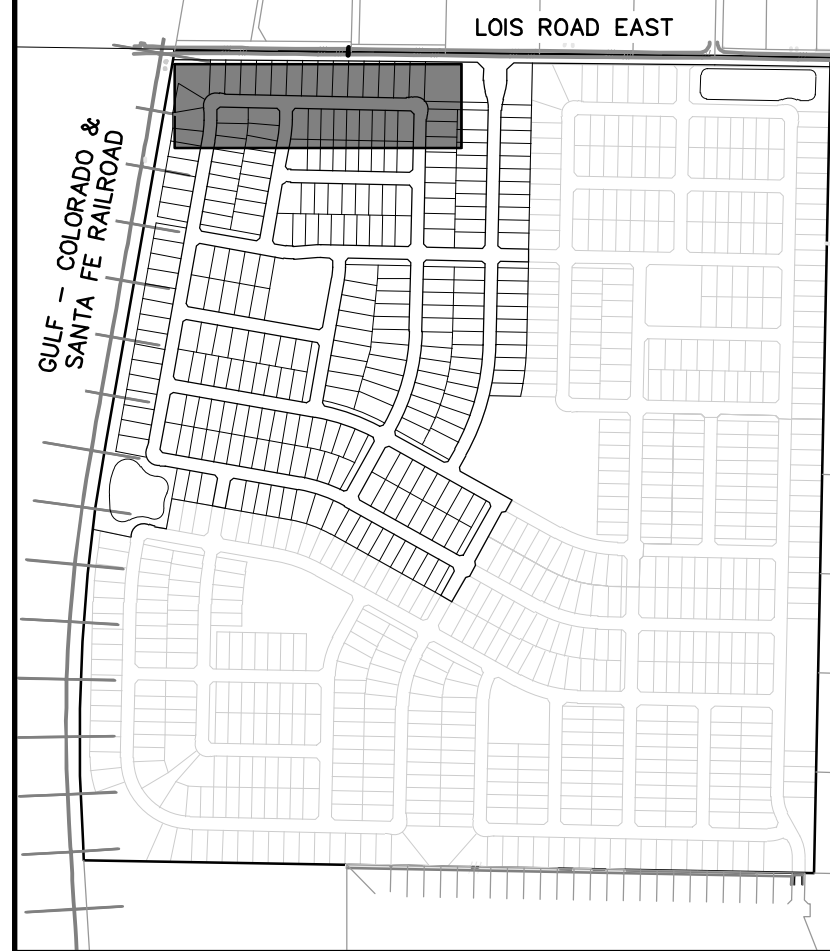
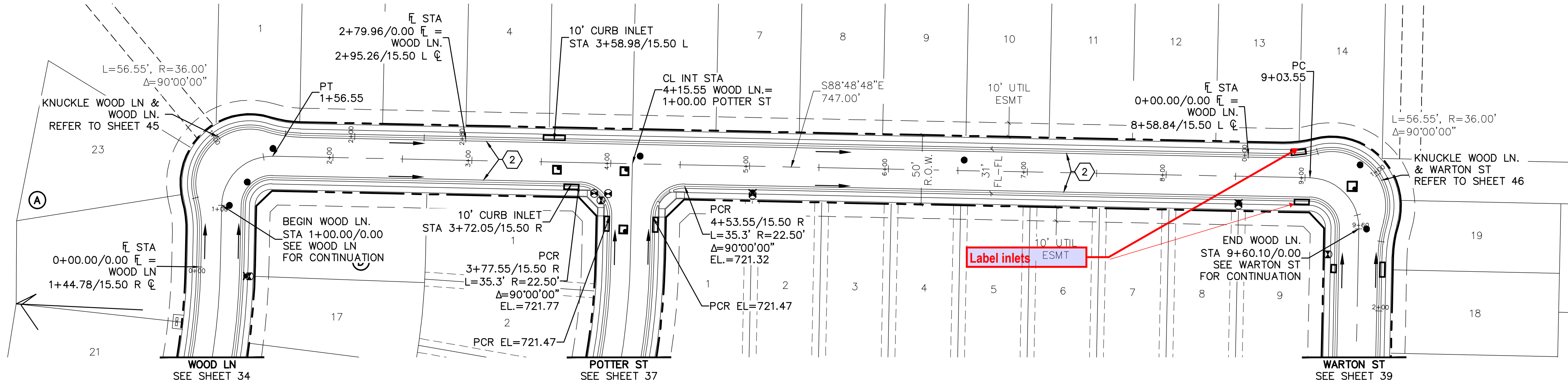
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K:\PROJECTS\24007256-PLAN-1\24007256-PLAN-1.dwg 4/7/2025 2:04 PM TIGER LING

ROADWAY CONSTRUCTION NOTES

1. CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
2. CONSTRUCT MOUNTABLE CURB AND GUTTER. SEE DETAIL 1007B, SHEET 92.
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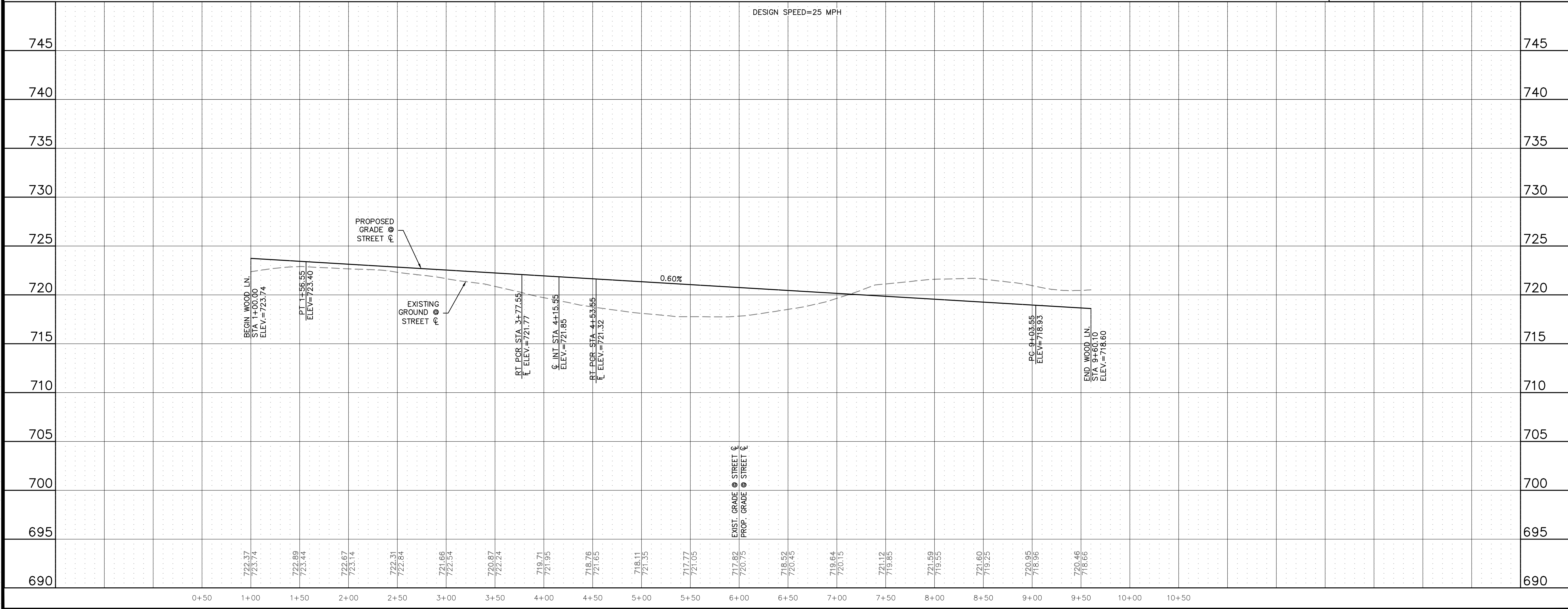
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WOOD LN.

DESIGN SPEED=25 MPH



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303.801.7333
MICHAEL PRYOR

KALTER CAPITAL

LOIS ROAD ESTATES - FILING NOS. 1 & 2
CITY OF SANGER, COUNTY OF DENTON,
STATE OF TEXAS

STREET PLAN & PROFILES
WOOD LN.

DATE 4/7/2025

A	1st SUBMITTAL TO JURISDICTION	4/7/2025	- KMB
B	2nd SUBMITTAL TO JURISDICTION	5/12/2025	- KMB

REVISIONS

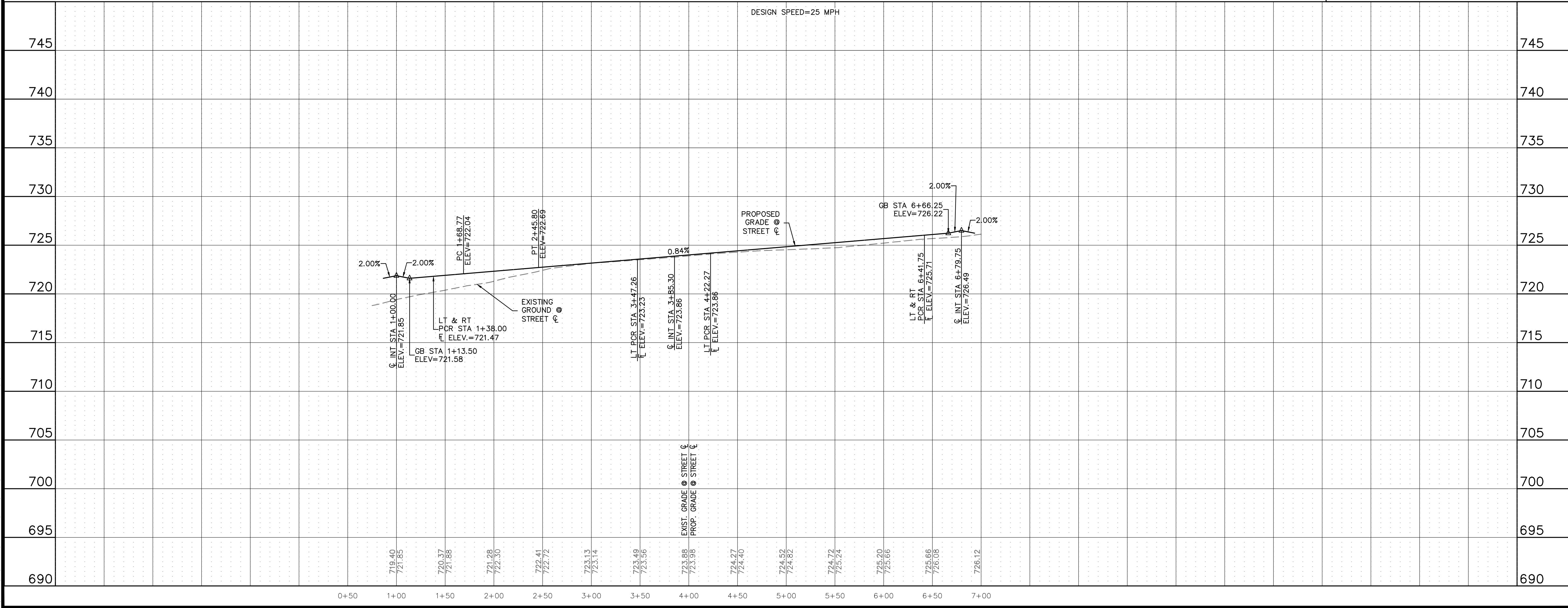
DR.	TN	CH.	KB
P.M.	JF		

JOB 24007256

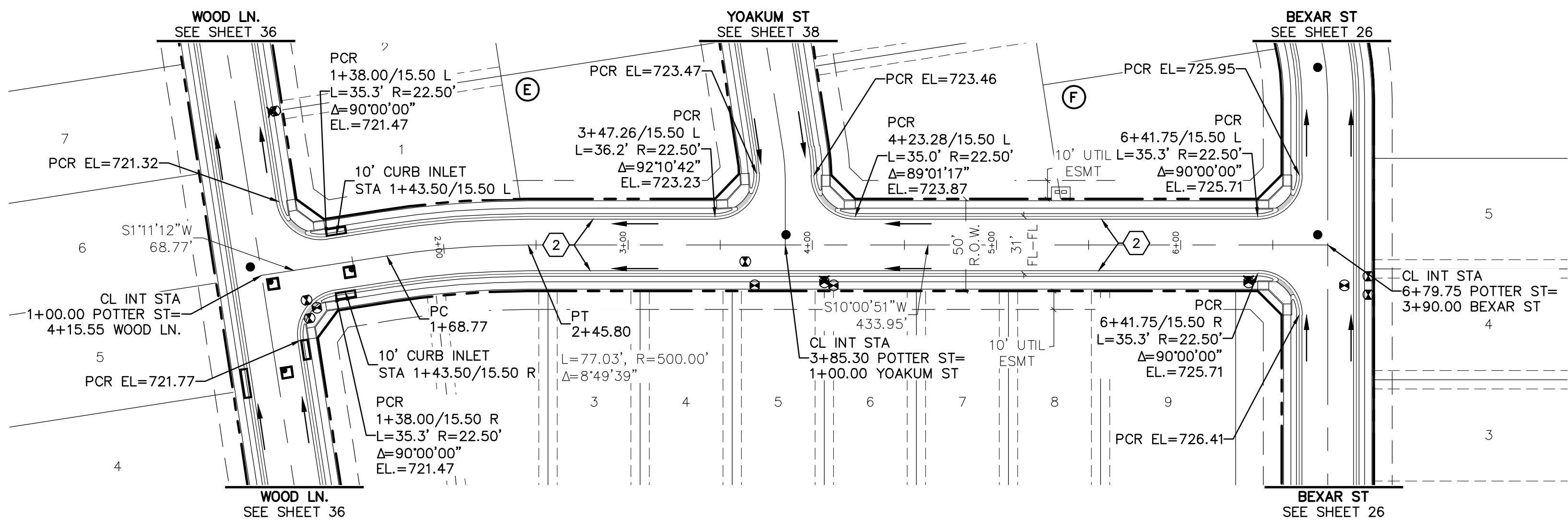
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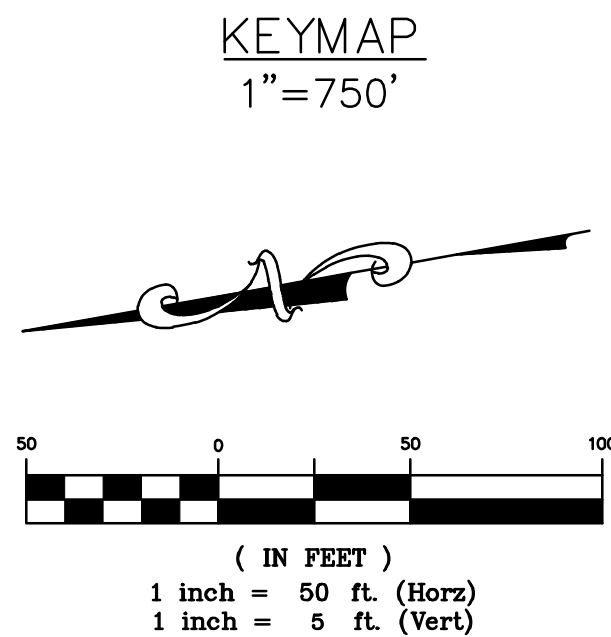
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POTTER ST



- ROADWAY CONSTRUCTION NOTES
1. CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
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CLIENT	LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS
	STREET PLAN & PROFILES POTTER ST
DATE	4/7/2025
REVISIONS	A 1st SUBMITTAL TO JURISDICTION 4/7/2025 - KMB
	B 2nd SUBMITTAL TO JURISDICTION 5/12/2025 - KMB
DR.	TN
P.M.	JF
JOB	24007256
SHEET NO.	37

- 1 CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
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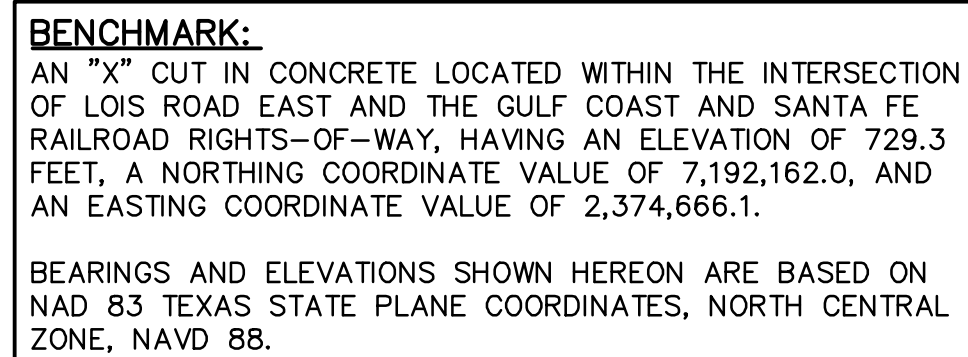


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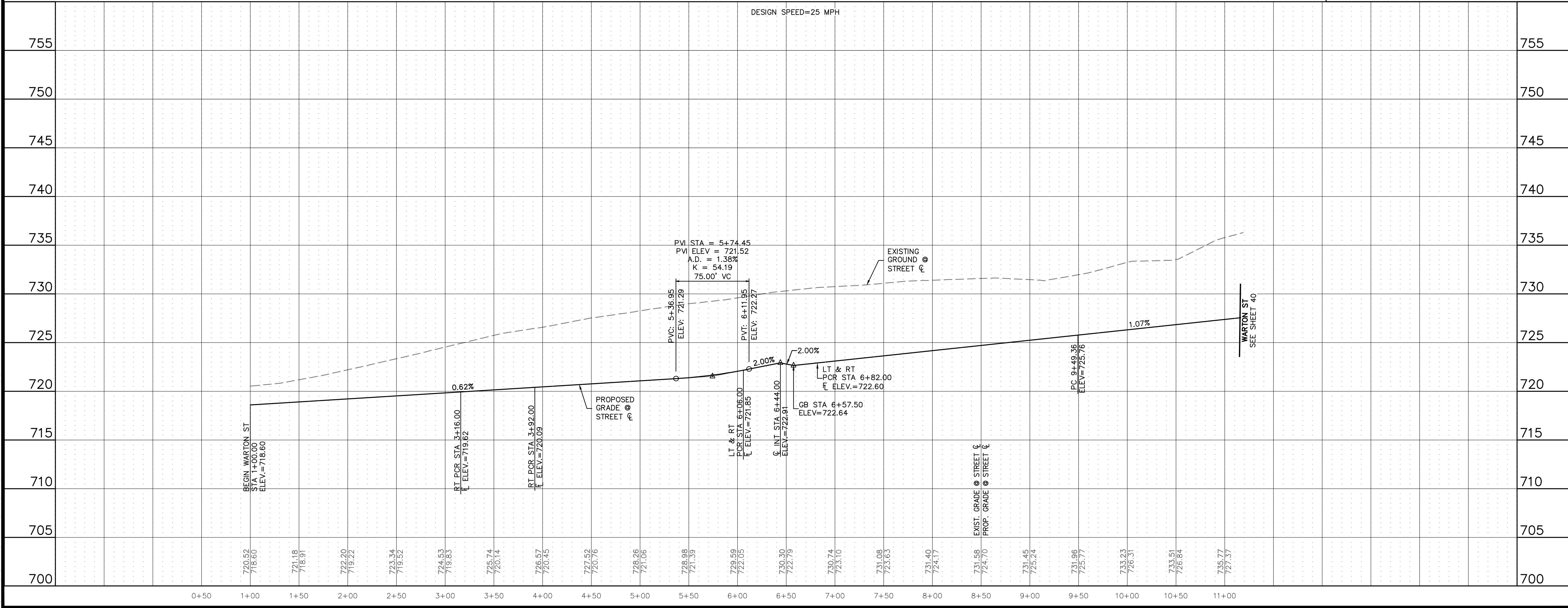


DESIGN SPEED=25 MPH



		DATE		4/7/2025	
		CLIENT		KALTER CAPITAL	
				LOIS ROAD ESTATES – FILING NOS. 1 & 2	
				CITY OF SANGER, COUNTY OF DENTON,	
				STATE OF TEXAS	
				KALTER CAPITAL	
				9788 SOUTH JOHNSON WAY	
				LITTLETON, COLORADO 80127	
				303.801.7333	
				MICHAEL PRYOR	
				STREET PLAN & PROFILES	
				YOAKUM ST	
				YOAKUM ST	
A		1st SUBMITTAL TO JURISDICTION			
B		4/7/2025 – OMR			
C		2nd SUBMITTAL TO JURISDICTION			
D		5/12/2025 – OMR			
E		REVISIONS			
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DR.		TN	CH.	KB	
P.M.		JF			
JOB		24007256			
SHEET NO.					

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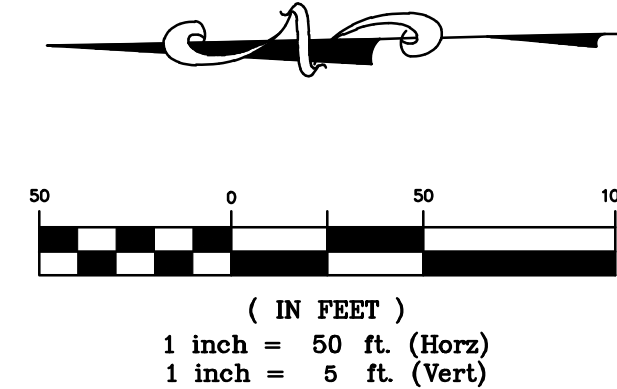
WARTON ST

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- 1 CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
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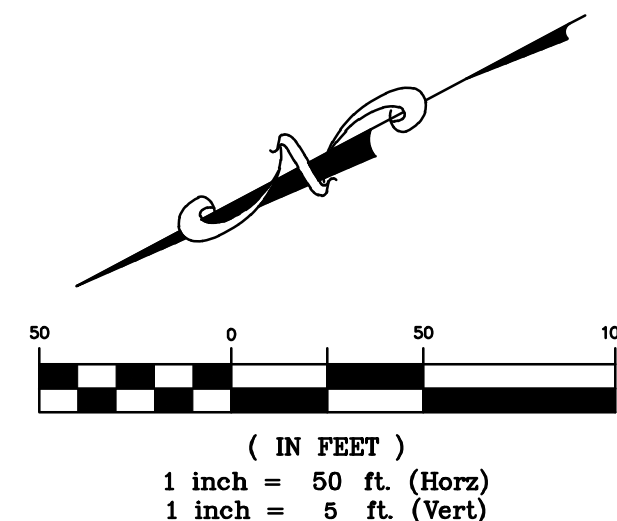
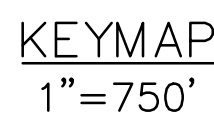
KALTER CAPITAL	KALTER CAPITAL
9788 SOUTH JOHNSON WAY LITTLETON, COLORADO 80127	LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS
303.801.7333	STREET PLAN & PROFILES WARTON ST
MICHAEL PRYOR	

DATE	4/7/2025
1st SUBMITTAL TO JURISDICTION	4/7/2025 - KMB
2nd SUBMITTAL TO JURISDICTION	5/12/2025 - KMB
REVISIONS	

DR.	TN	CH.	KB
P.M.	JF		
JOB	24007256		
SHEET NO.	39		

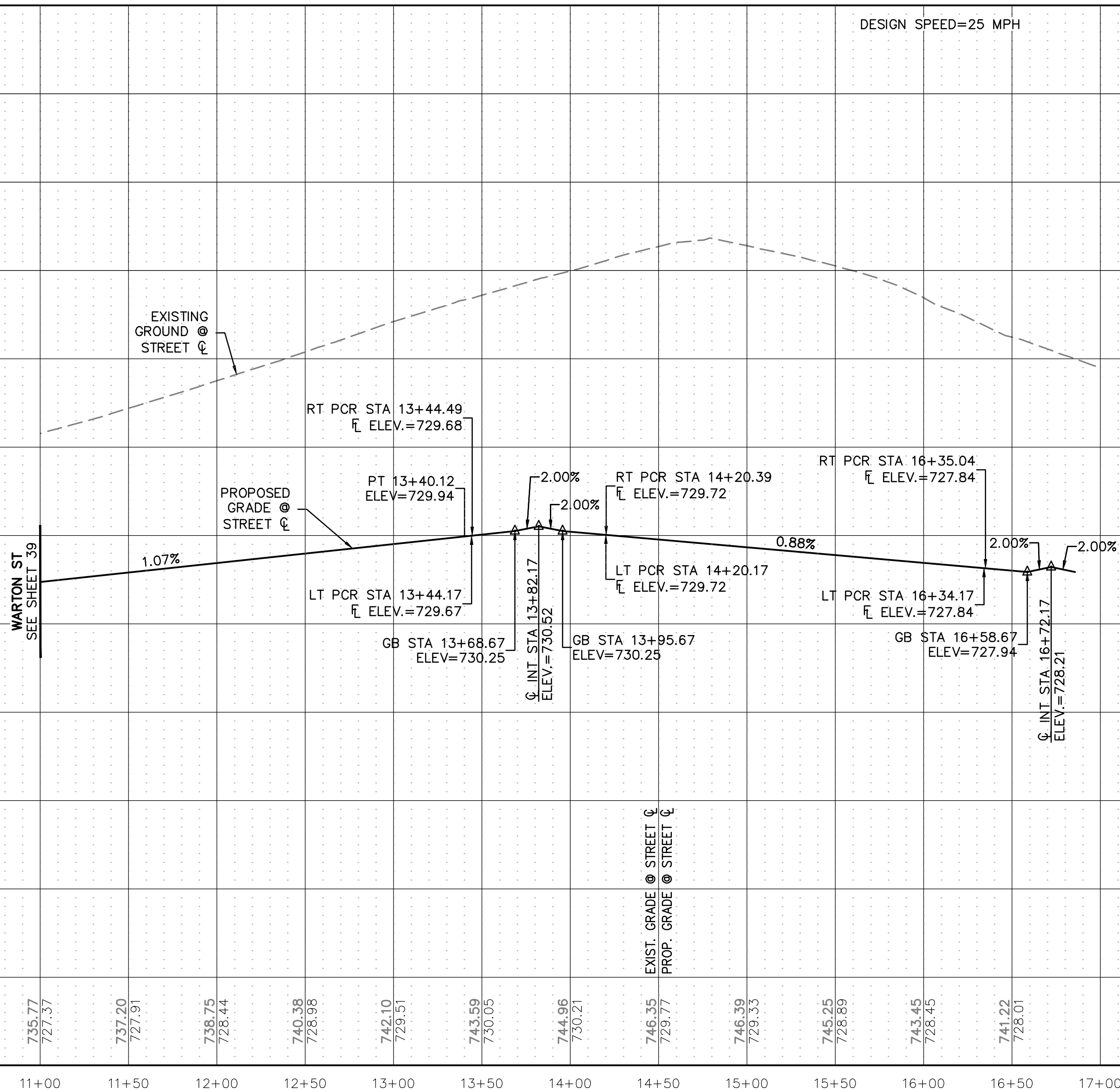
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CLIENT	KALTER CAPITAL LOIS ROAD ESTATES – FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS		STREET PLAN & PROFILES WARTON ST		
DATE	4/7/2025				
A	1	SUBMITTAL TO JURISDICTION 4/7/2025 – MB			
B	2	SUBMITTAL TO JURISDICTION 5/27/2025 – MB			
REVISIONS					
DR.	TN	CH.	KB		
P.M., JF					
JOB 24007256					
SHEET NO. 40					

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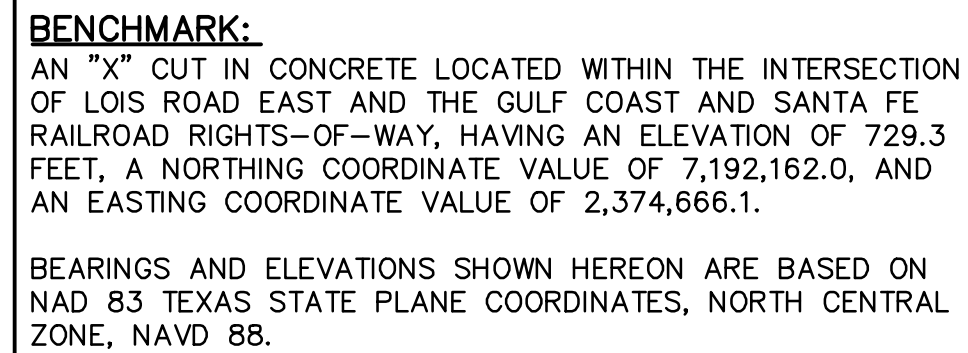


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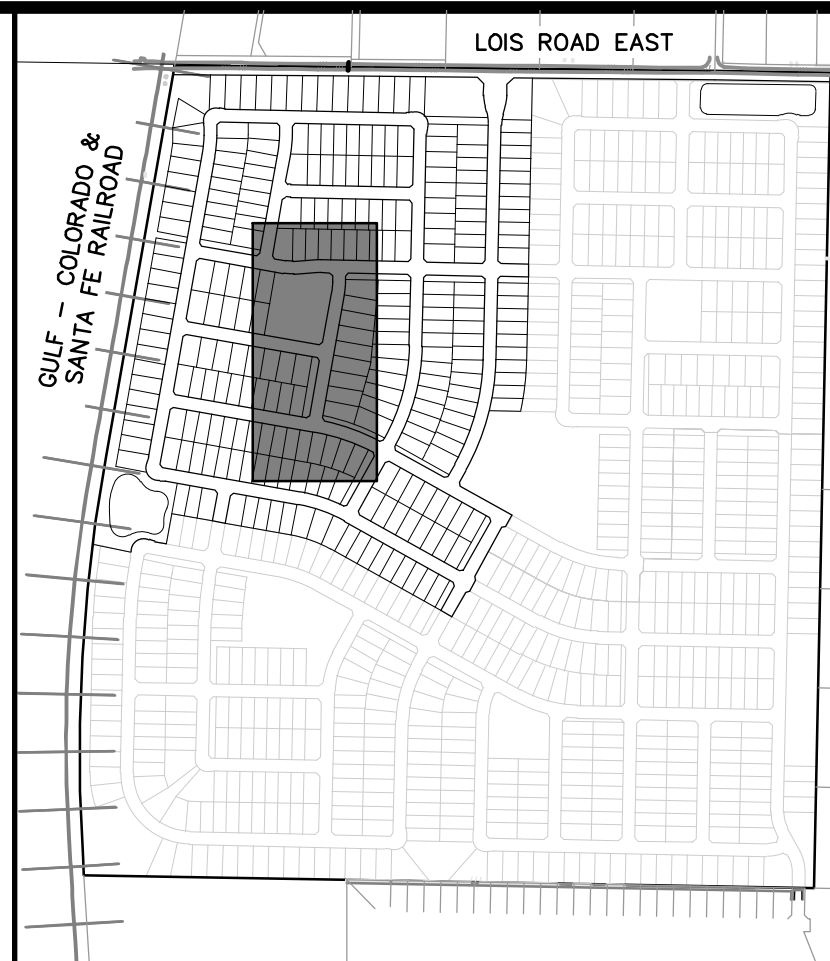


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303.801.7333
MICHAEL PRYOR

CLIENT	KALTER CAPITAL
	LOIS ROAD ESTATES – FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS
	STREET PLAN & PROFILES TERRELL ST

DATE		4/7/2025	
A	¹³ SUBMITTAL TO JURISDICTION 4/7/2025 – AMR		
B	^{14B} SUBMITTAL TO JURISDICTION 5/17/2025 – AMR		
REVISIONS			
DR.	TN	CH.	KB
P.M., JF			
JOB 24007256			
SHEET NO.			
41			

- 1 CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
- 2 CONSTRUCT MOUNTABLE CURB AND GUTTER. SEE DETAIL 1007B, SHEET 92.
- 3 CONSTRUCT 10' CURB TRANSITION.



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HUNTER DR

LOIS
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DATE 4/7/2025

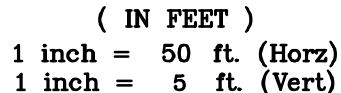
A	1 ST SUBMITTAL TO JURISDICTION 4/7/2025 - KMB
B	2 ND SUBMITTAL TO JURISDICTION 5/12/2025 - KMB

REVISIONS

NR.	TN	CH.	KB
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OB 24007256

SHEET NO. 42

$$1'' = 750'$$


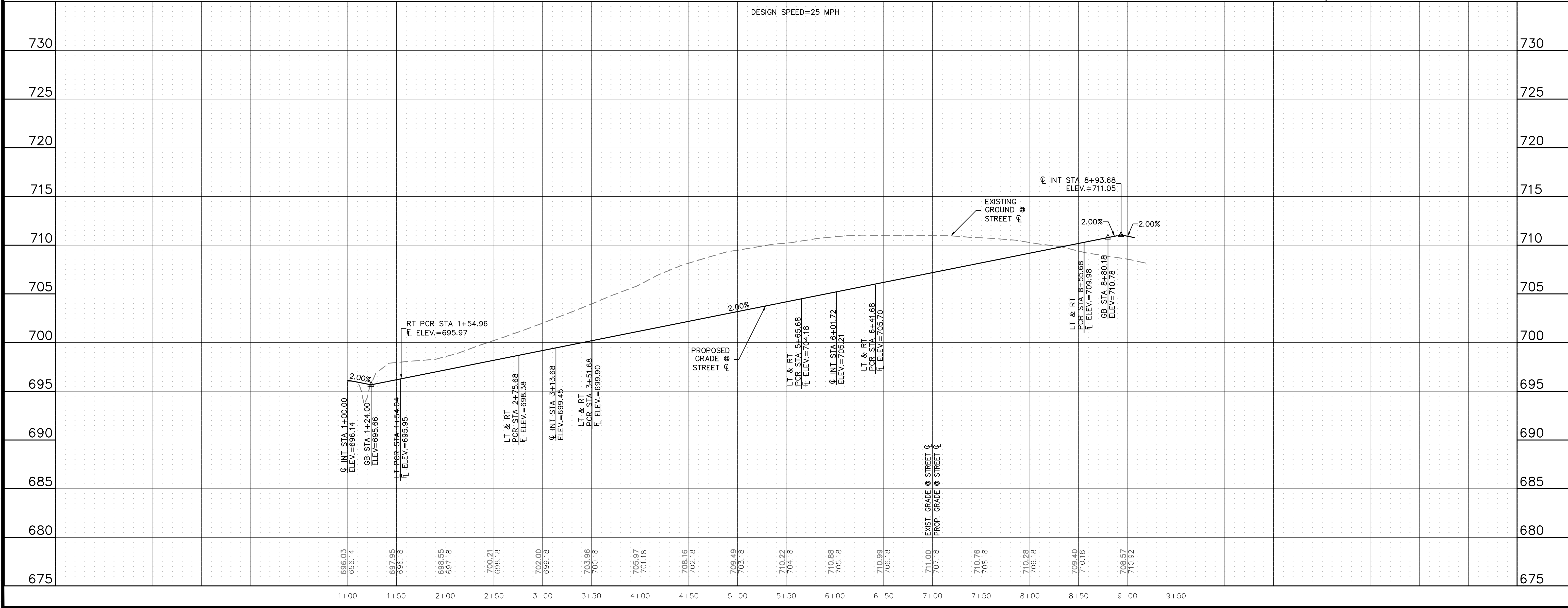
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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ZONE, NAVD 88.

DESIGN SPEED=25 MPH



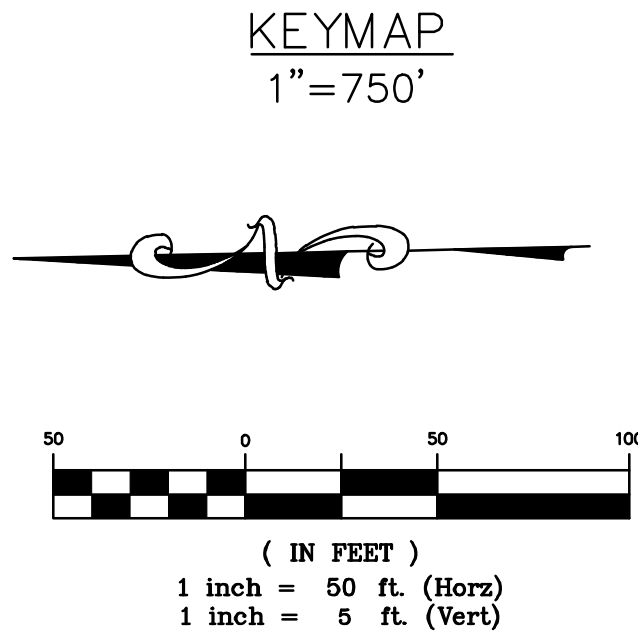
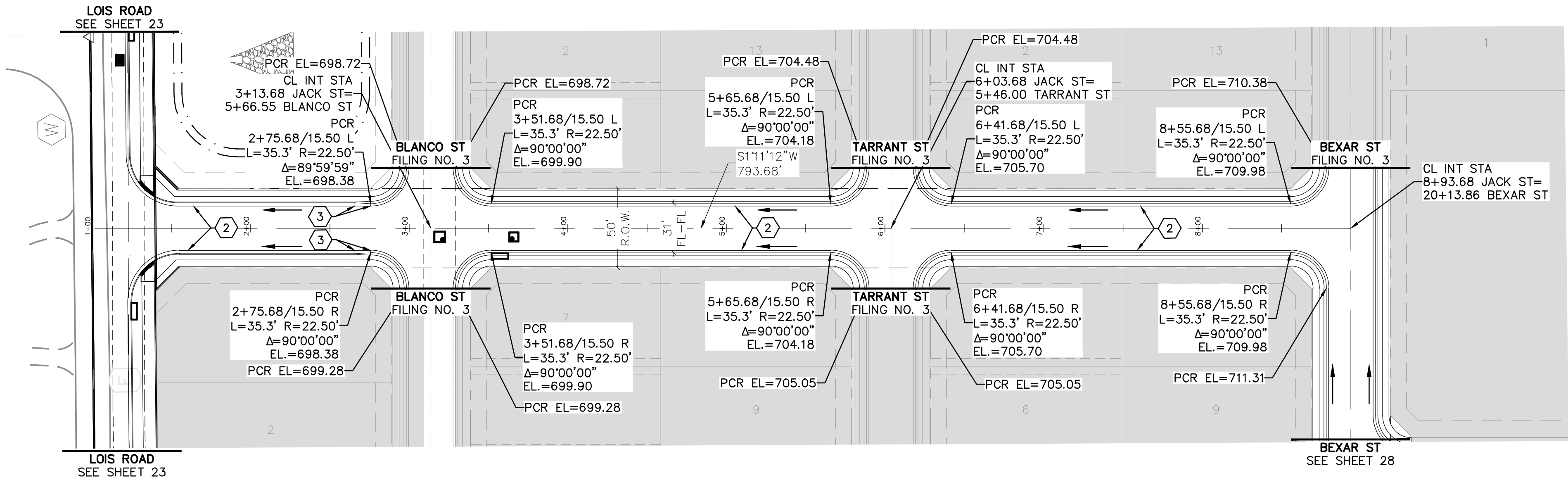
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JACK ST

DESIGN SPEED=25 MPH

- ROADWAY CONSTRUCTION NOTES
1. CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
 2. CONSTRUCT MOUNTABLE CURB AND GUTTER. SEE DETAIL 1007B, SHEET 92.
 3. CONSTRUCT 10' CURB TRANSITION.



BENCHMARK:
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303.801.7333	STREET PLAN & PROFILES JACK ST
MICHAEL PRYOR	

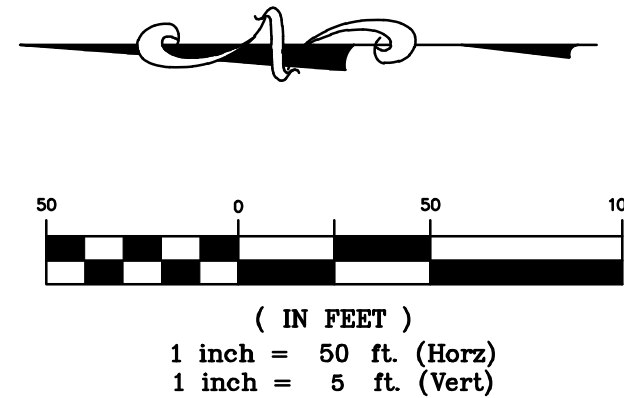
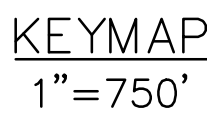
DATE	4/7/2025
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DR.	TN	CH.	KB
P.M.	JF		

JOB	24007256
SHEET NO.	43

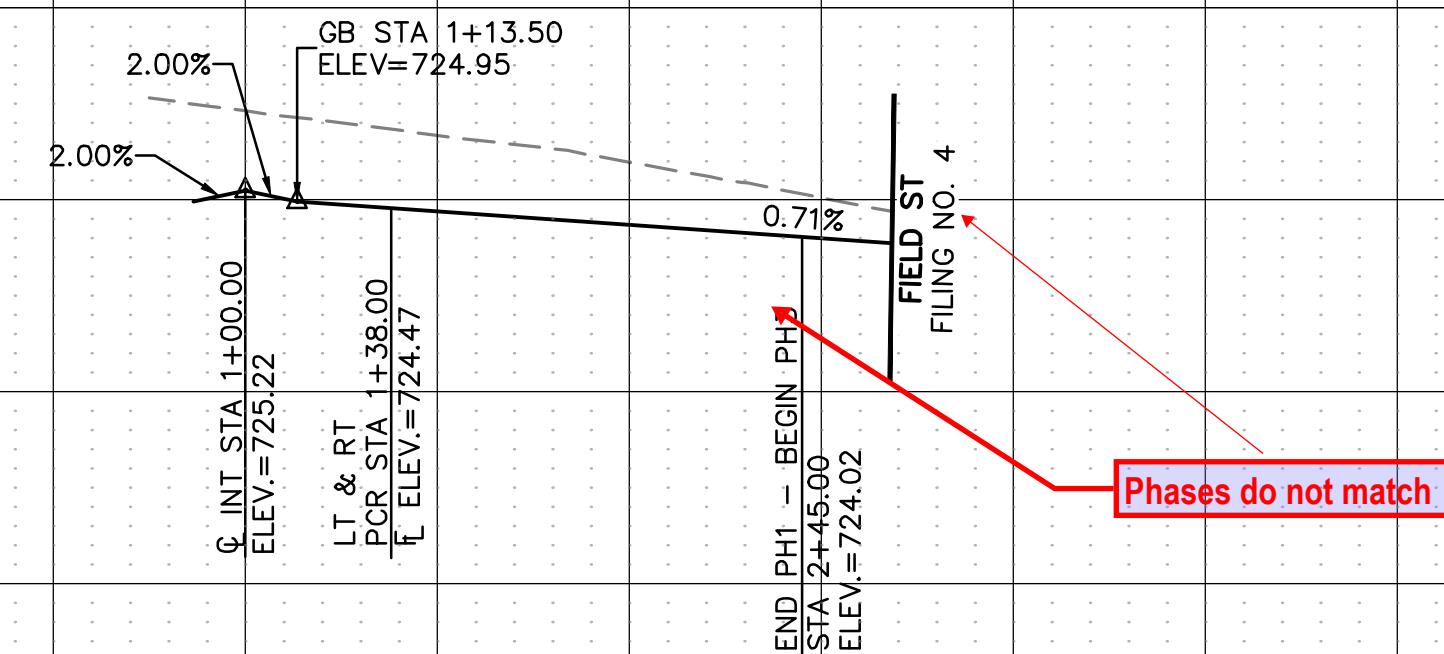
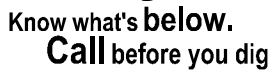
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- 1 CONSTRUCT SEPARATE CURB & GUTTER. SEE DETAIL 2102, SHEET 91.
- 2 CONSTRUCT MOUNTABLE CURB AND GUTTER. SEE DETAIL 1007B, SHEET 92.
- 3 CONSTRUCT 10' CURB TRANSITION.



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[illegible]

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B	2nd SUBMITTAL TO JURISDICTION 5/12/2025 - KME

REVISIONS

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P.M. JF			

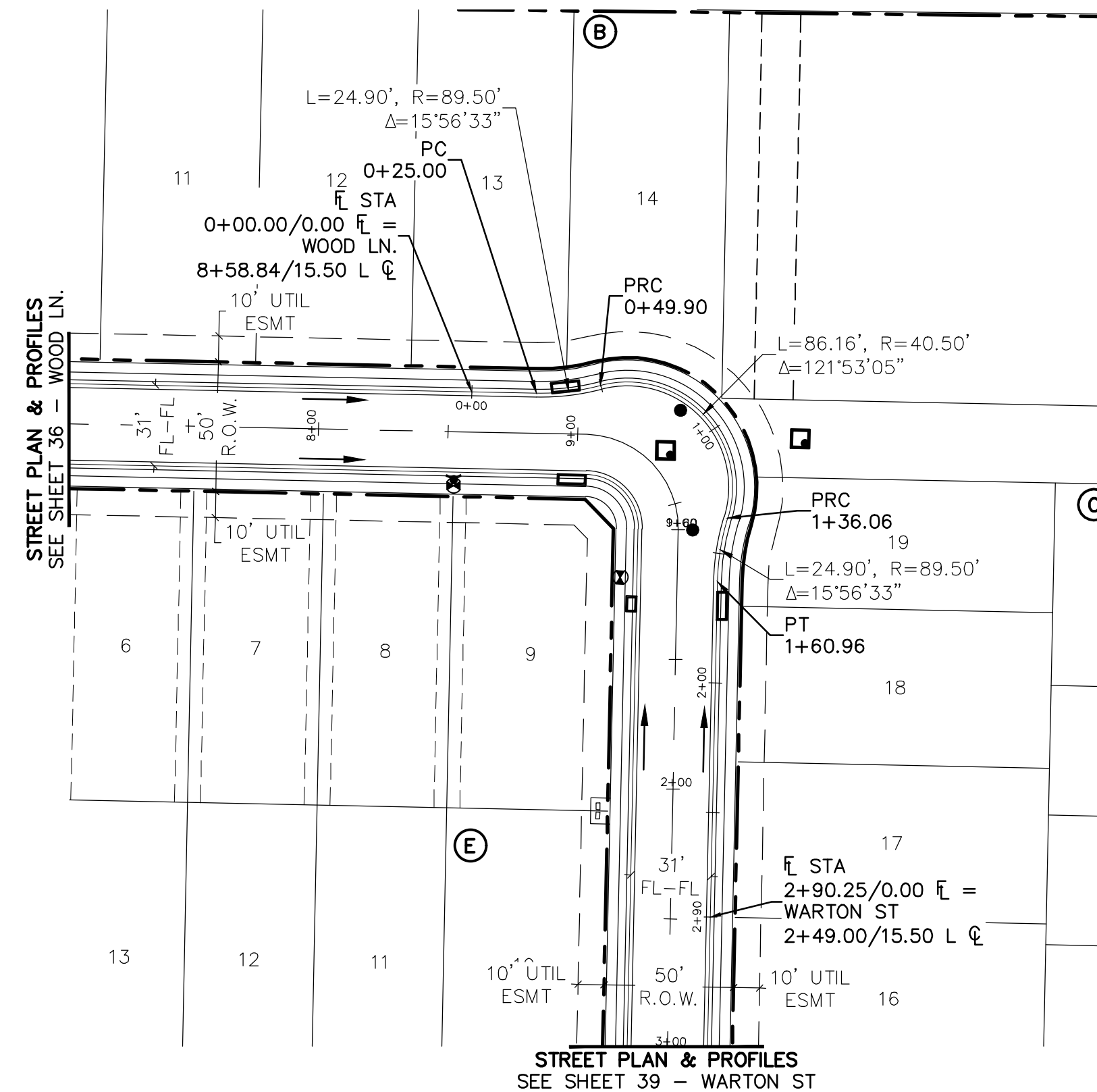
JOB 24007256

SHEET NO.

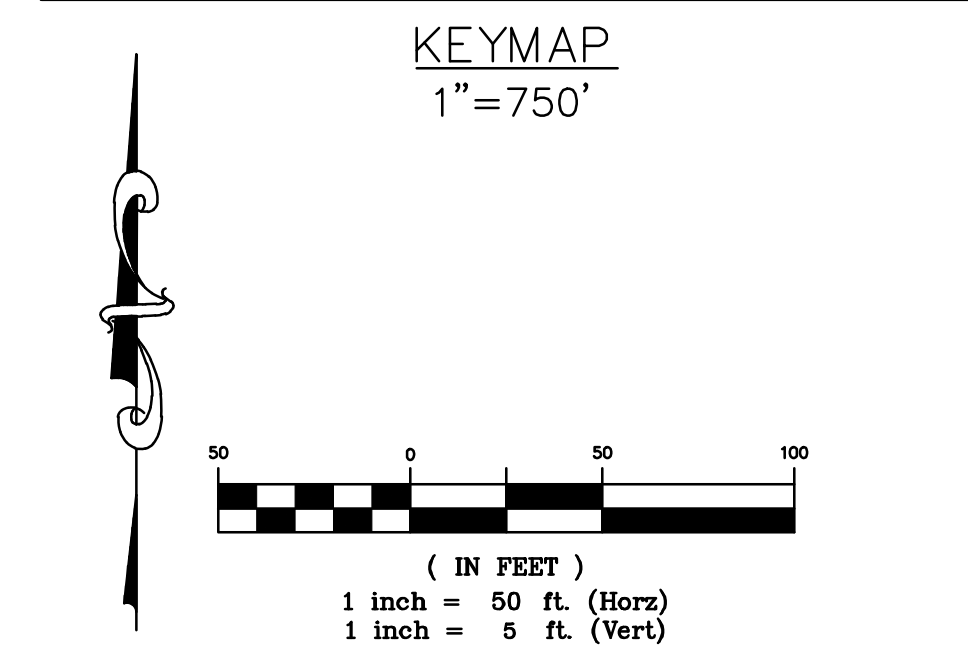
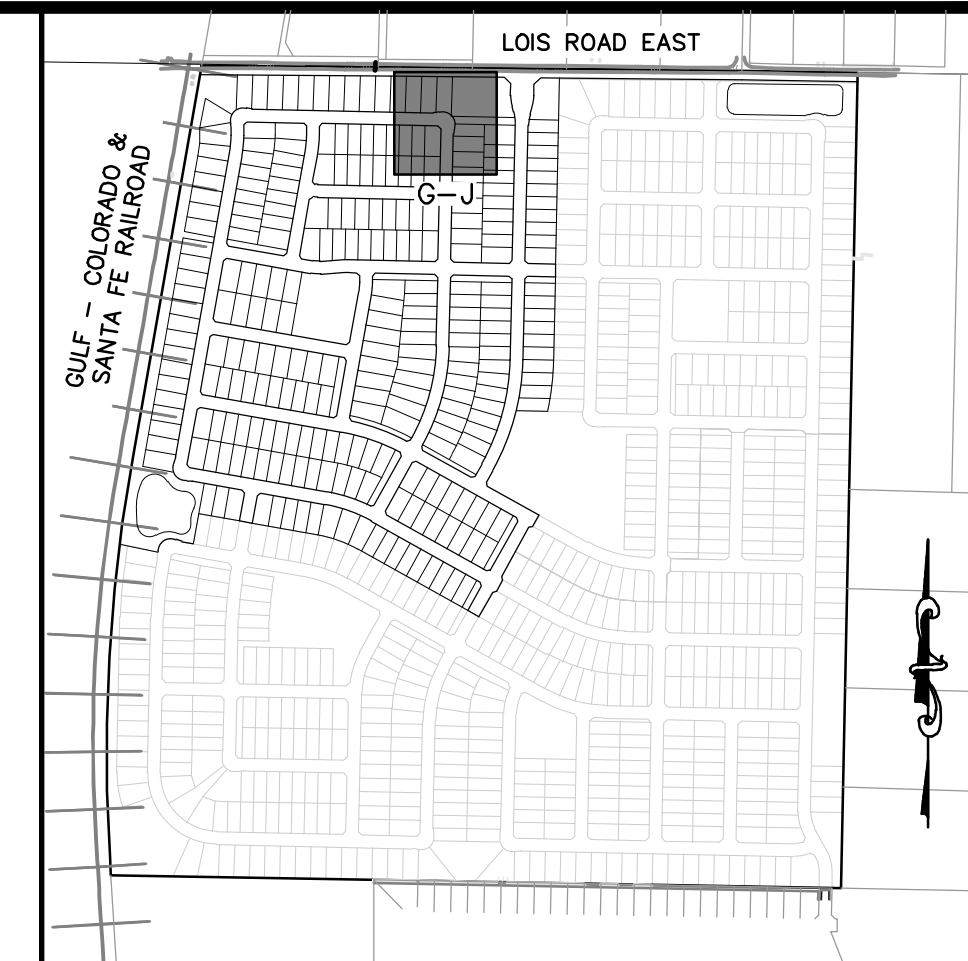
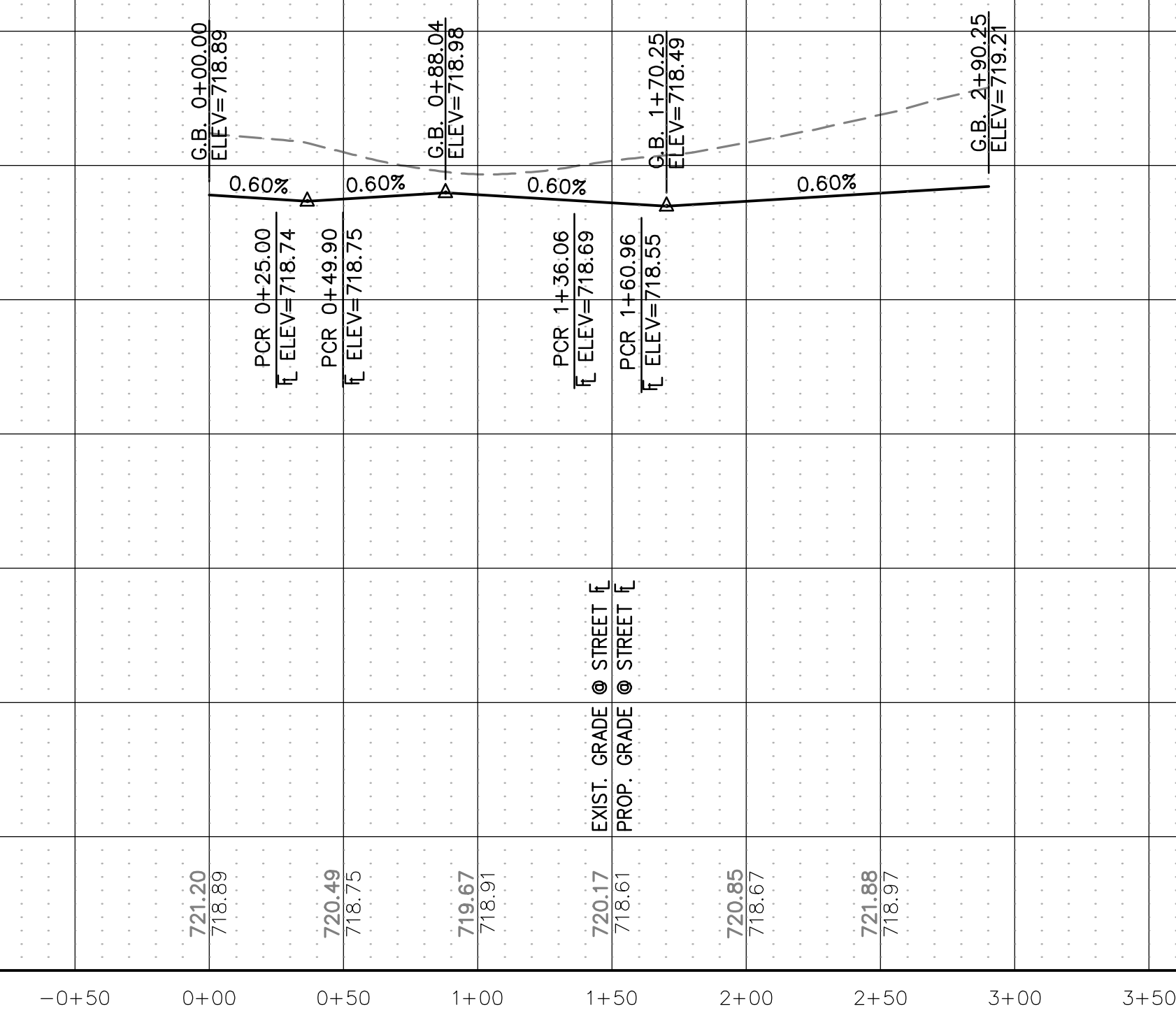
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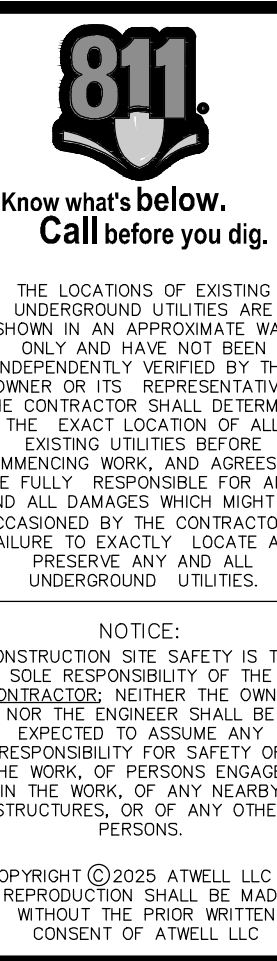


WOOD LN. - WARTON ST - KNUCKLE



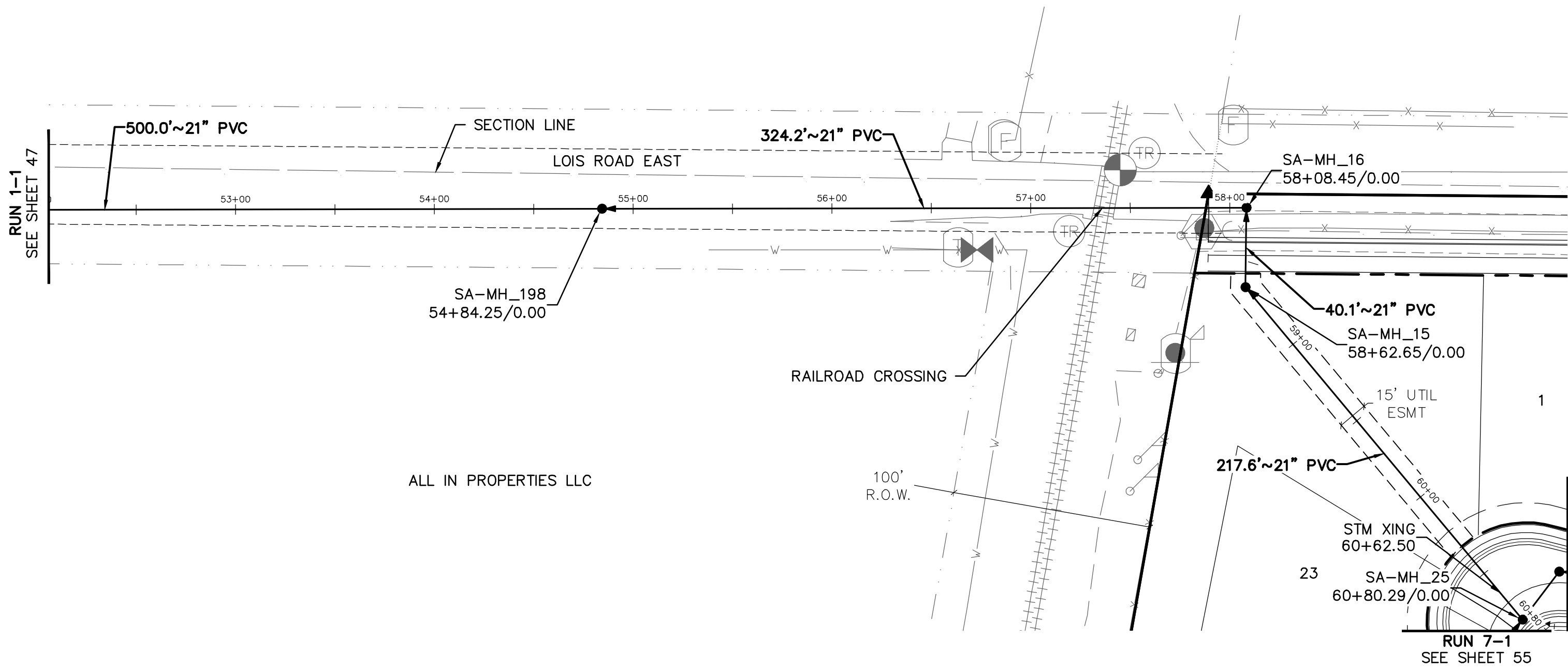
BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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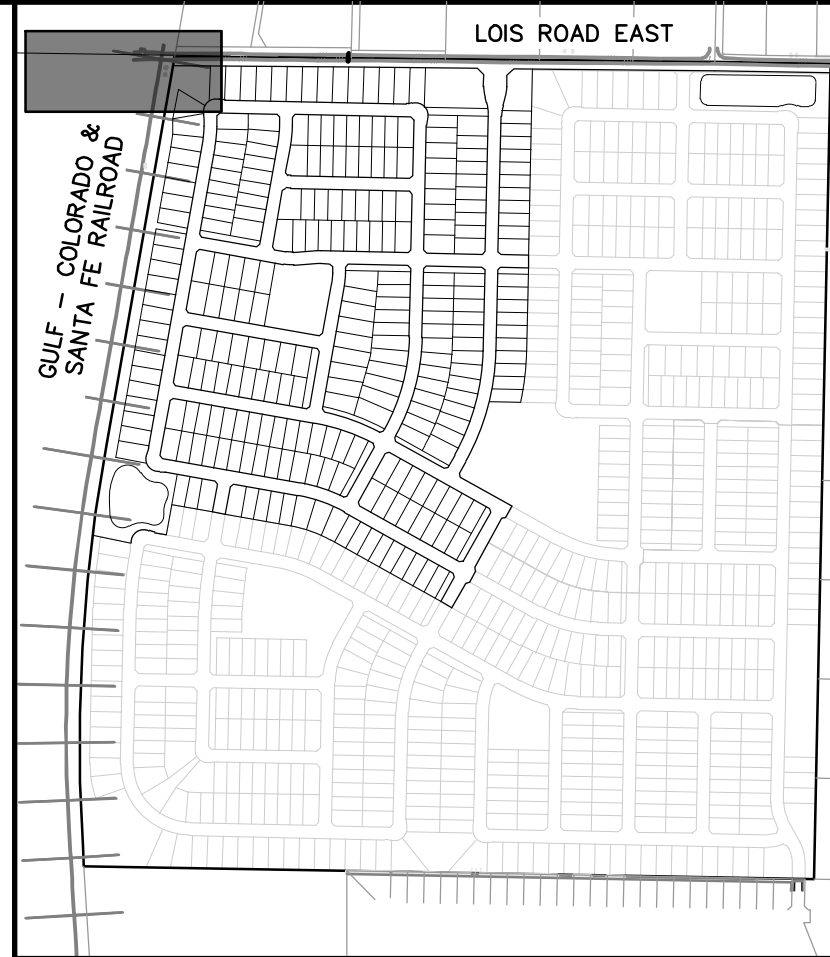


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KALTER CAPITAL		9788 SOUTH JOHNSON WAY LITTLE ROCK, COLORADO 80127	
LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS STREET PLAN & PROFILES (KNUCKLES) WOOD LN. - WARTON ST		303.801.7333 MICHAEL BOVAB	
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2nd SUBMITTAL TO JURISDICTION 5/17/2025 - B			
REVISIONS			
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P.M., JF			
JOB		24007256	
SHEET NO.		46	

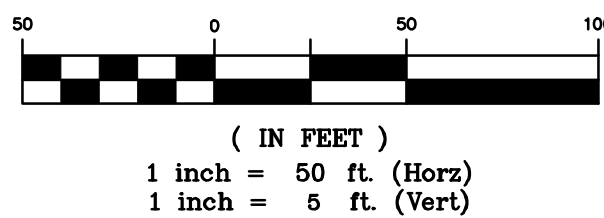
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RUN 1-2

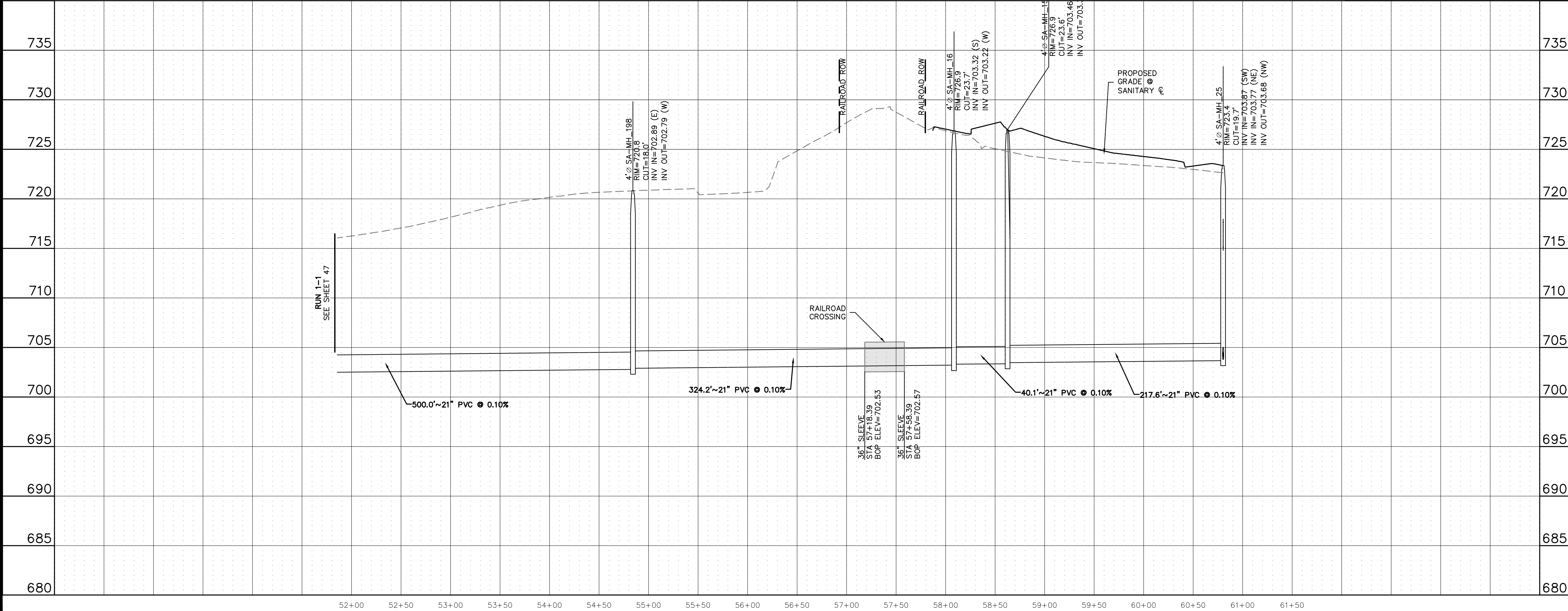


KEYMAP
1"=750'



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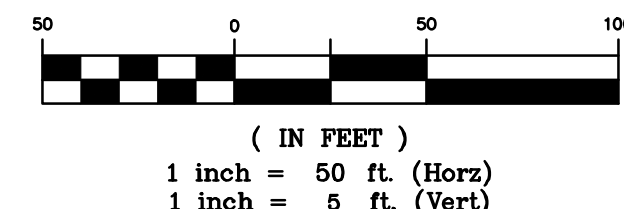
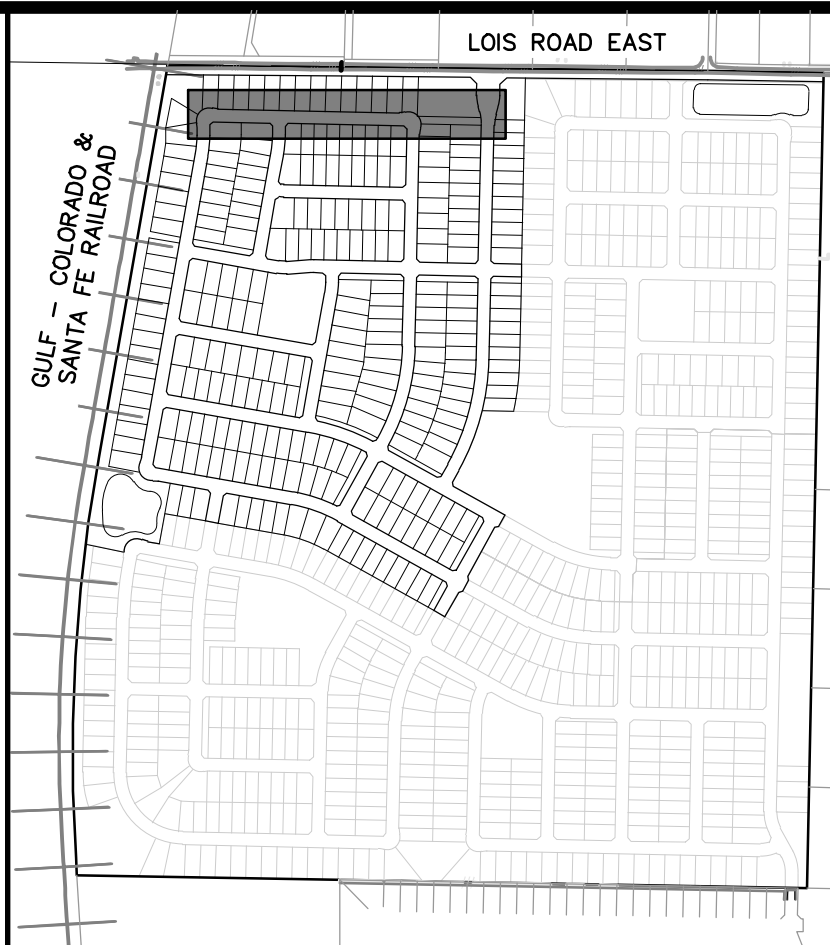
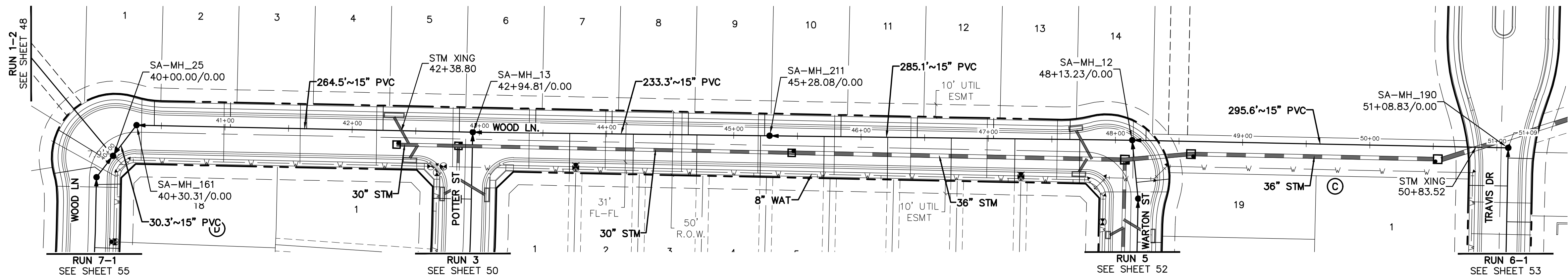
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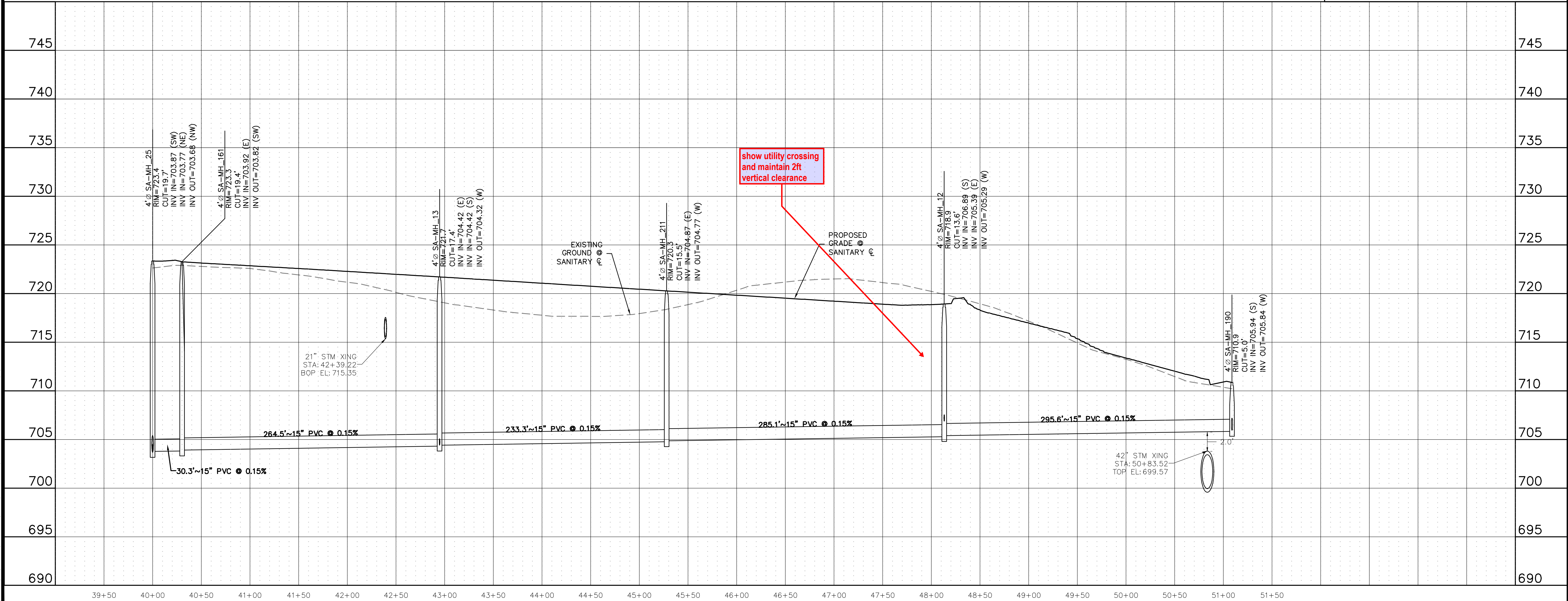
CLIENT	KALTER CAPITAL	KALTER CAPITAL
	LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS	SANITARY SEWER PLAN & PROFILES RUN 1-2
DATE	4/7/2025	
1 st SUBMITTAL TO JURISDICTION	4/7/2025 - RMB	
2 nd SUBMITTAL TO JURISDICTION	5/12/2025 - RMB	
REVISIONS		
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P.M.	JF	
JOB	24007256	
SHEET NO.	48	



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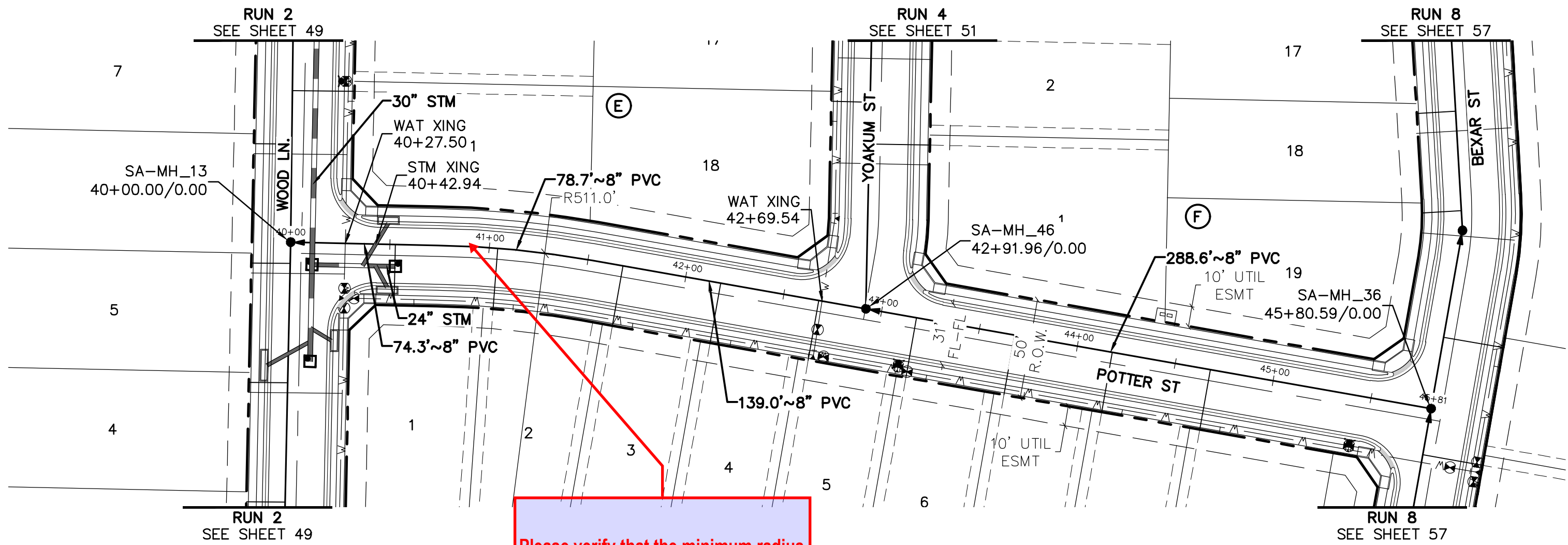
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SHEET NO. 49

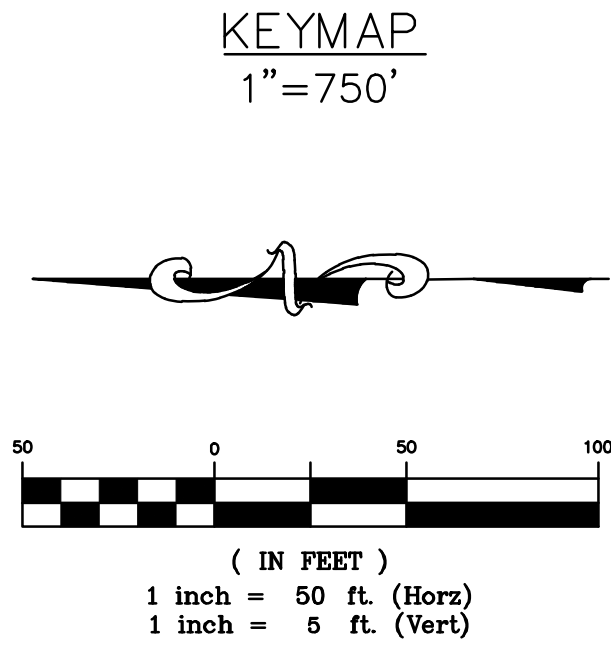
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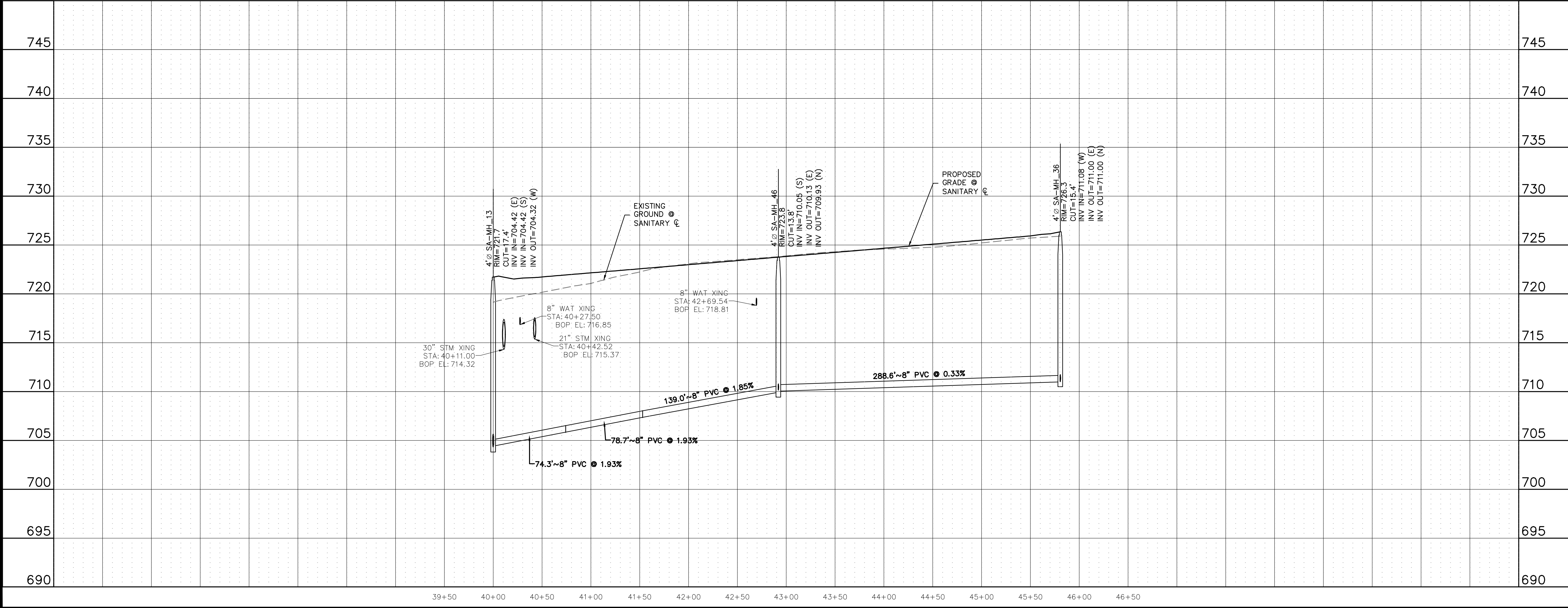


Please verify that the minimum radius of curvature shall be one hundred feet (100') per § 10.106(f)(1)(D)(i)

RUN 3



BENCHMARK:
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SANITARY SEWER PLAN & PROFILES
RUN 3

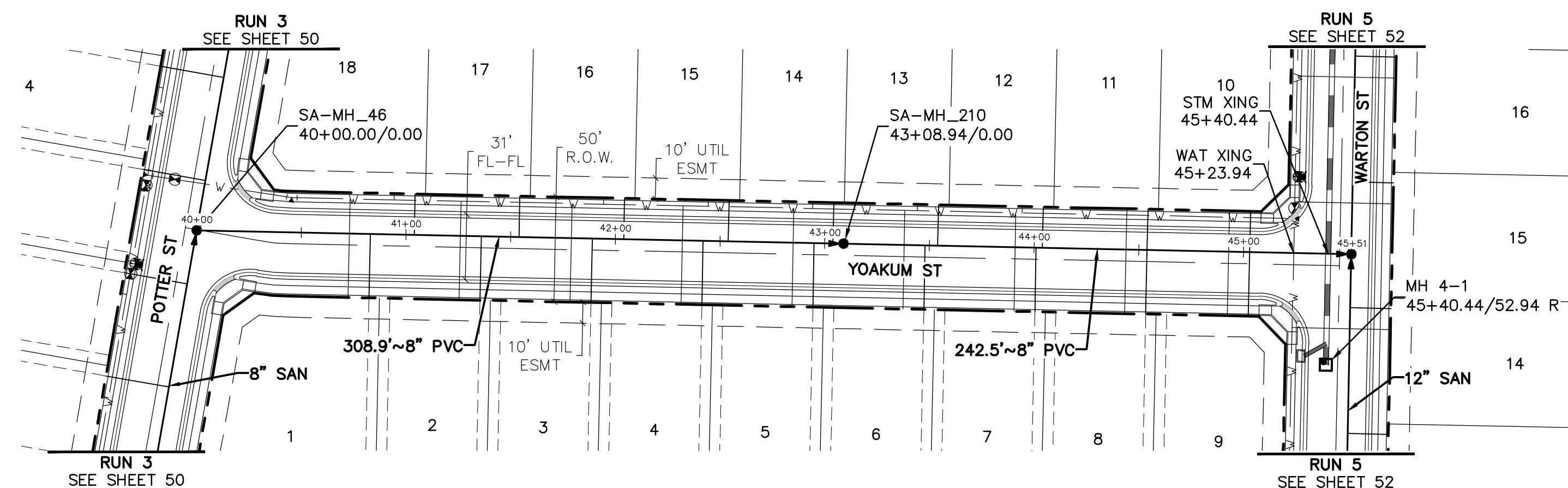
DATE 4/7/2025

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REVISIONS

DR. TN CH. KB
P.M. JF

JOB 24007256
SHEET NO. 50



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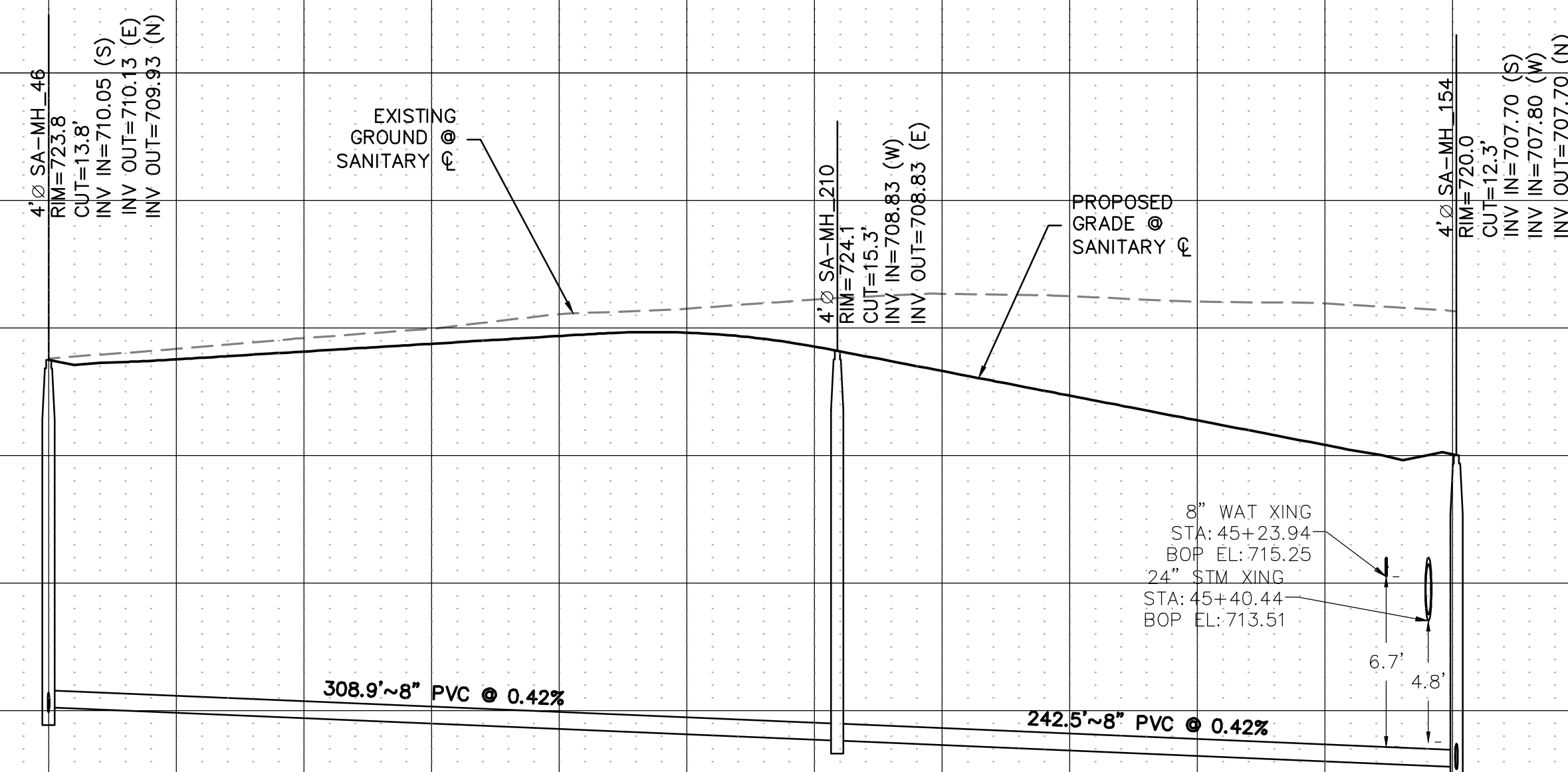
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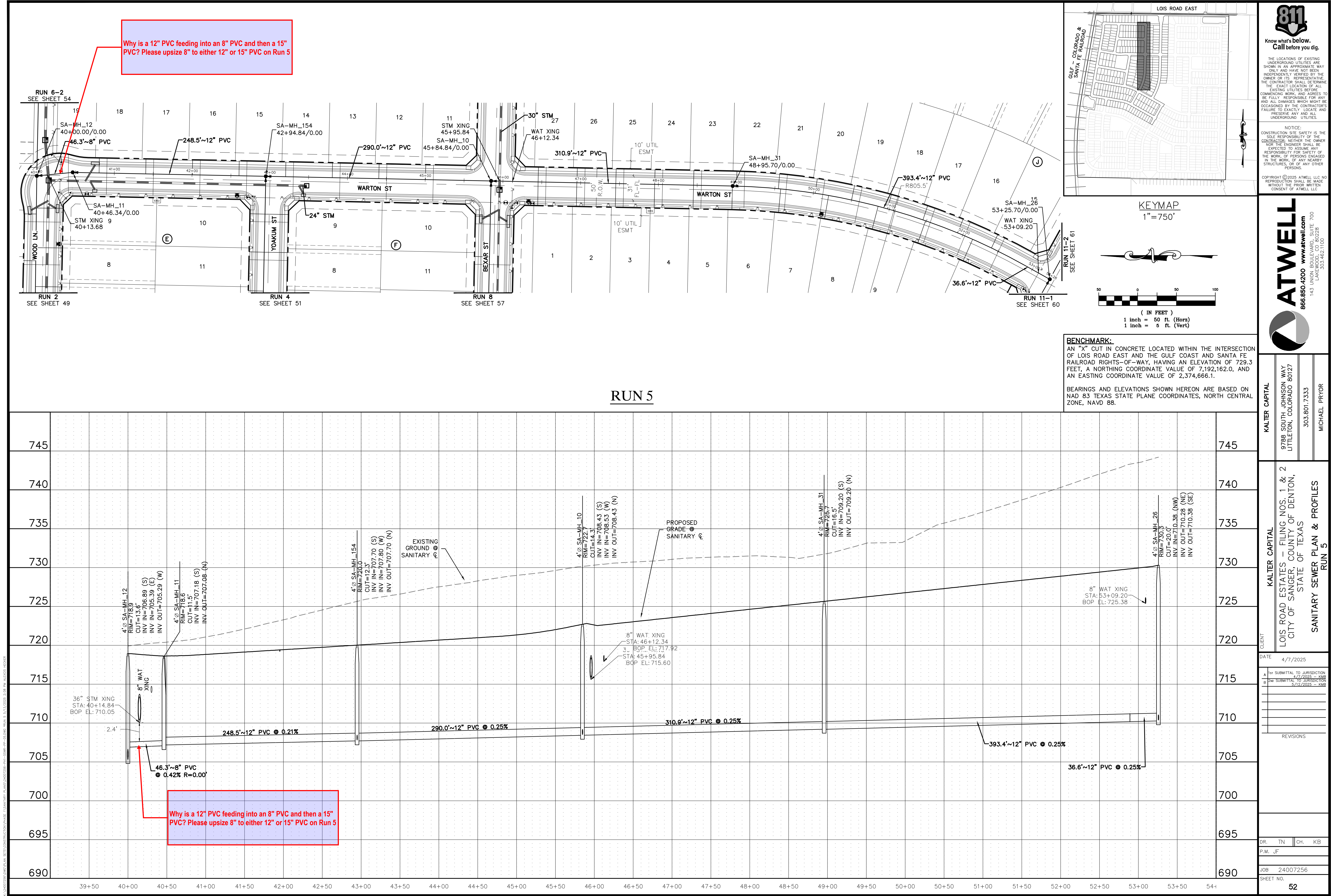
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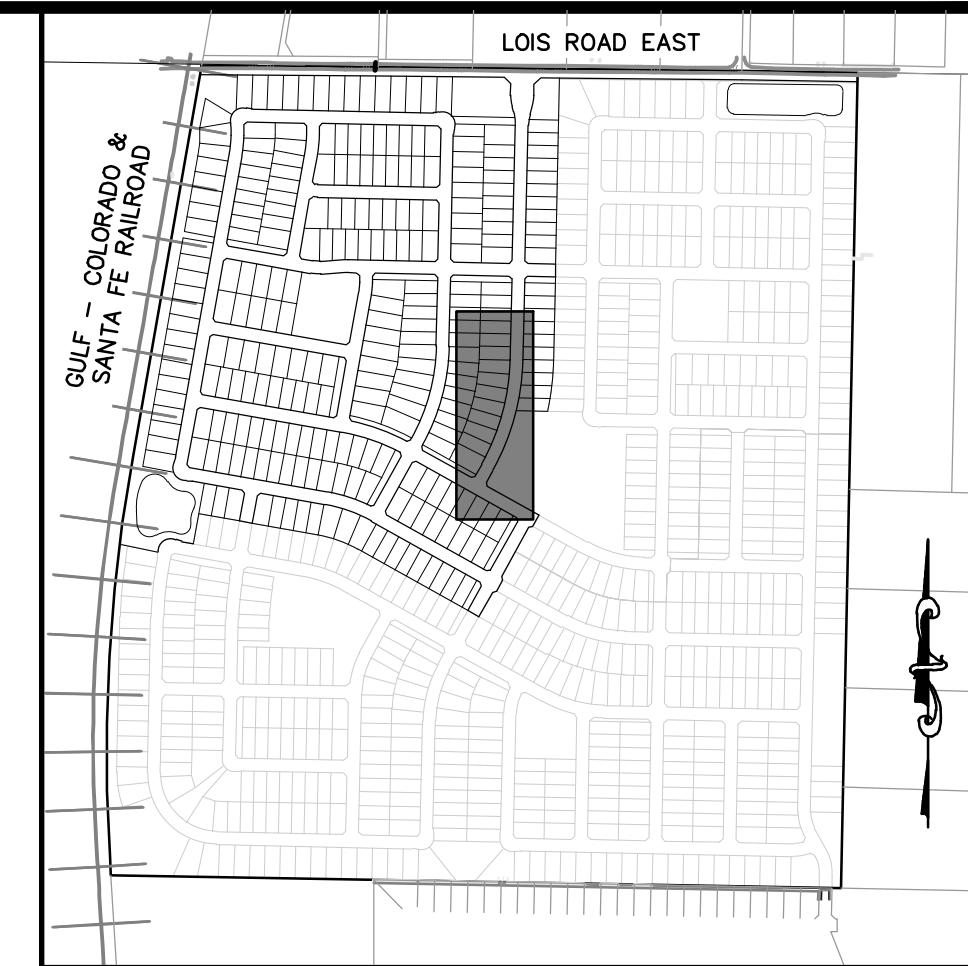
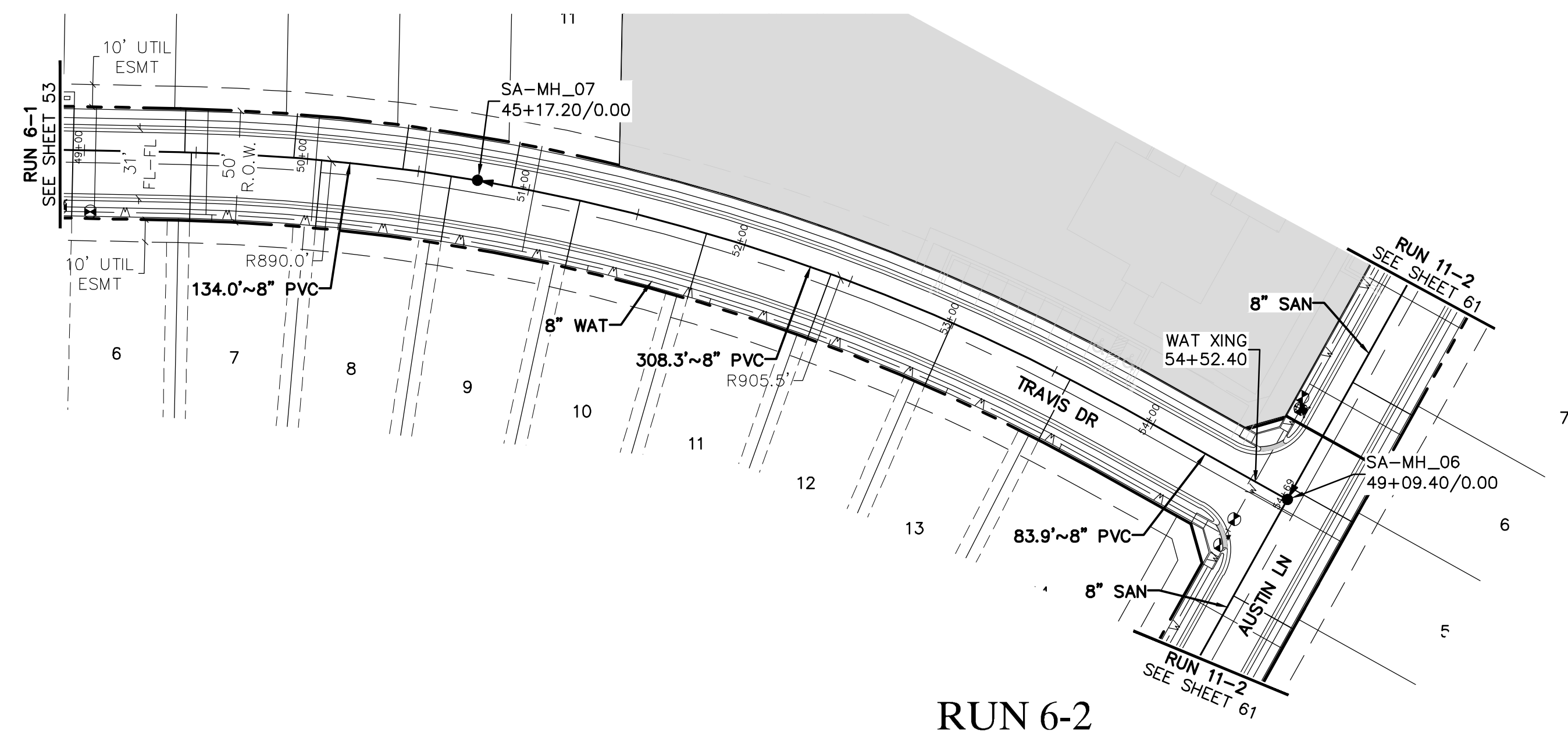
RUN 4



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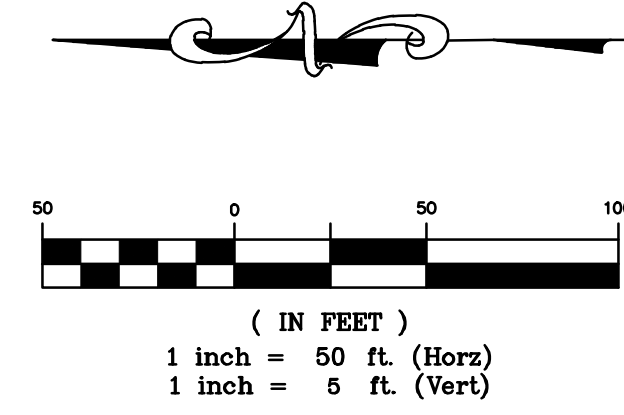


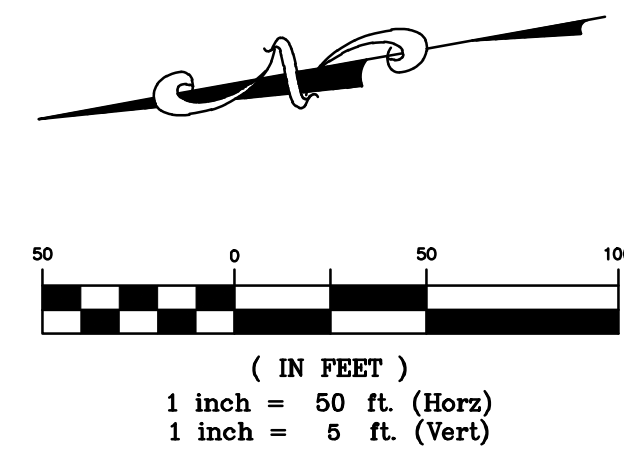
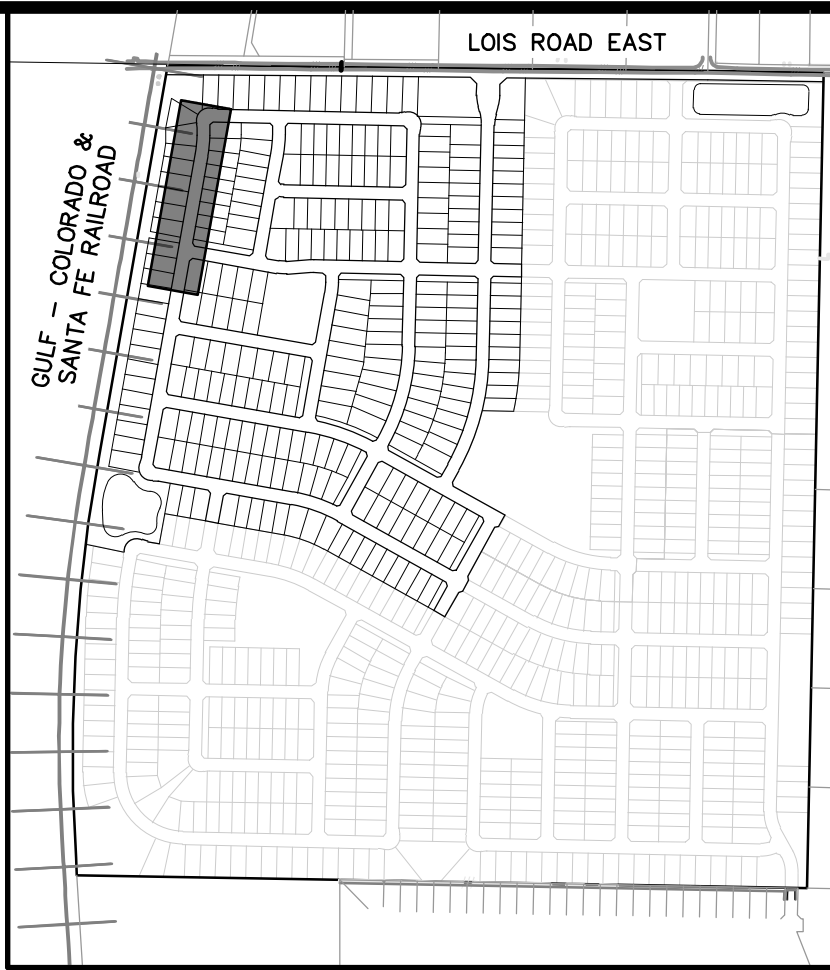
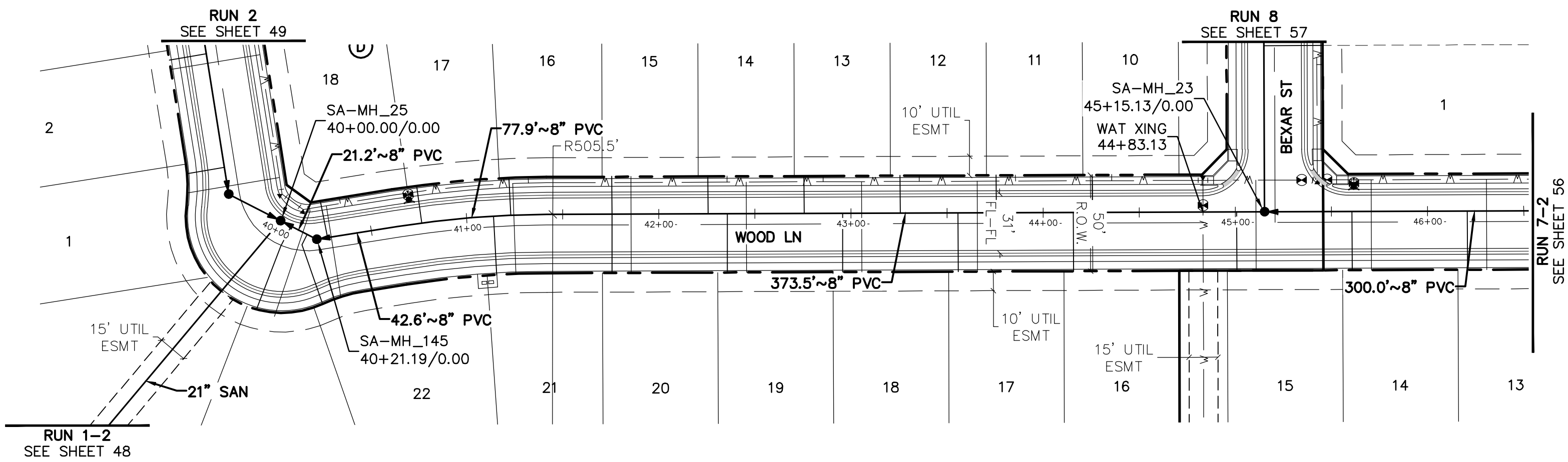
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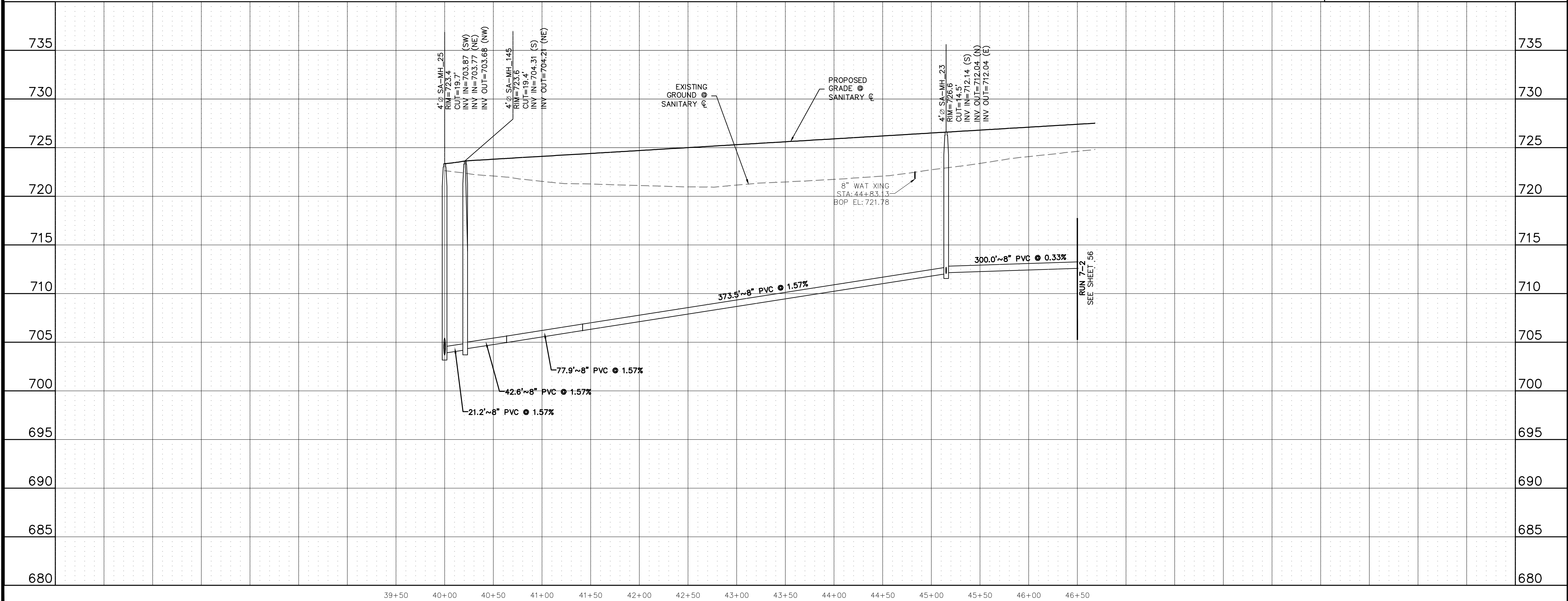




BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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RUN 7-1



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CITY OF SANGER, COUNTY OF DENTON,
STATE OF TEXAS

SANITARY SEWER PLAN & PROFILES
RUN 7-1

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B	2nd SUBMITTAL TO JURISDICTION	5/12/2025	- KMB

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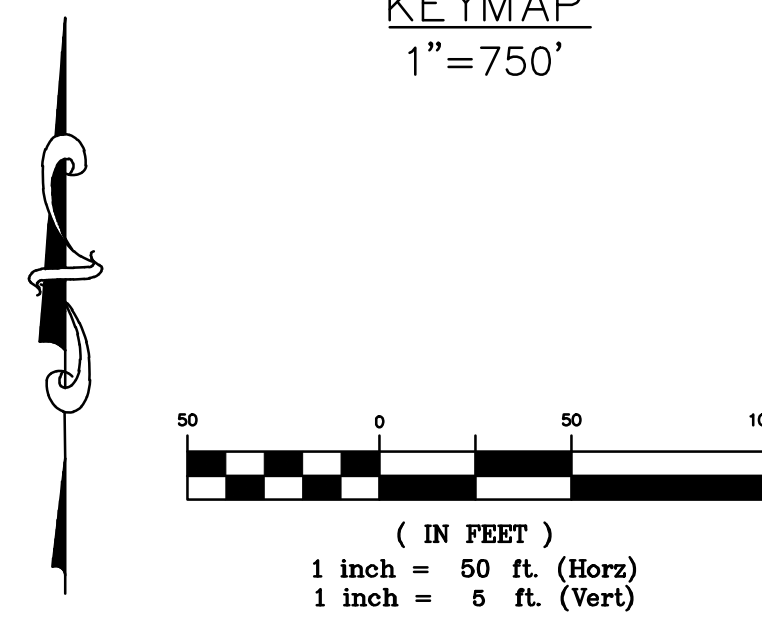
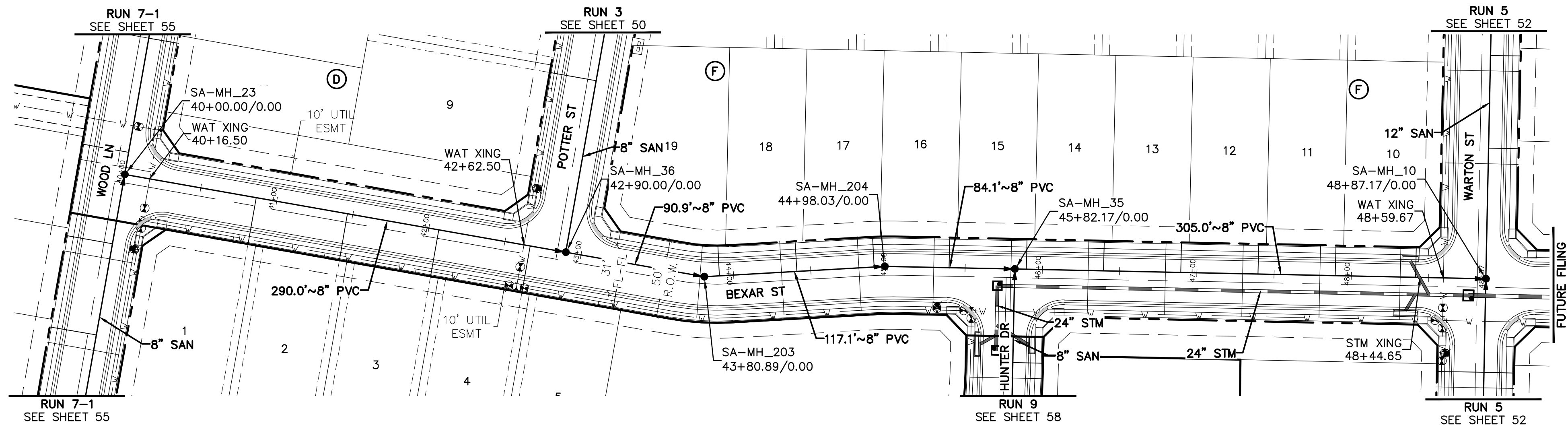
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P.M.	JF		

JOB 24007256

SHEET NO. 55

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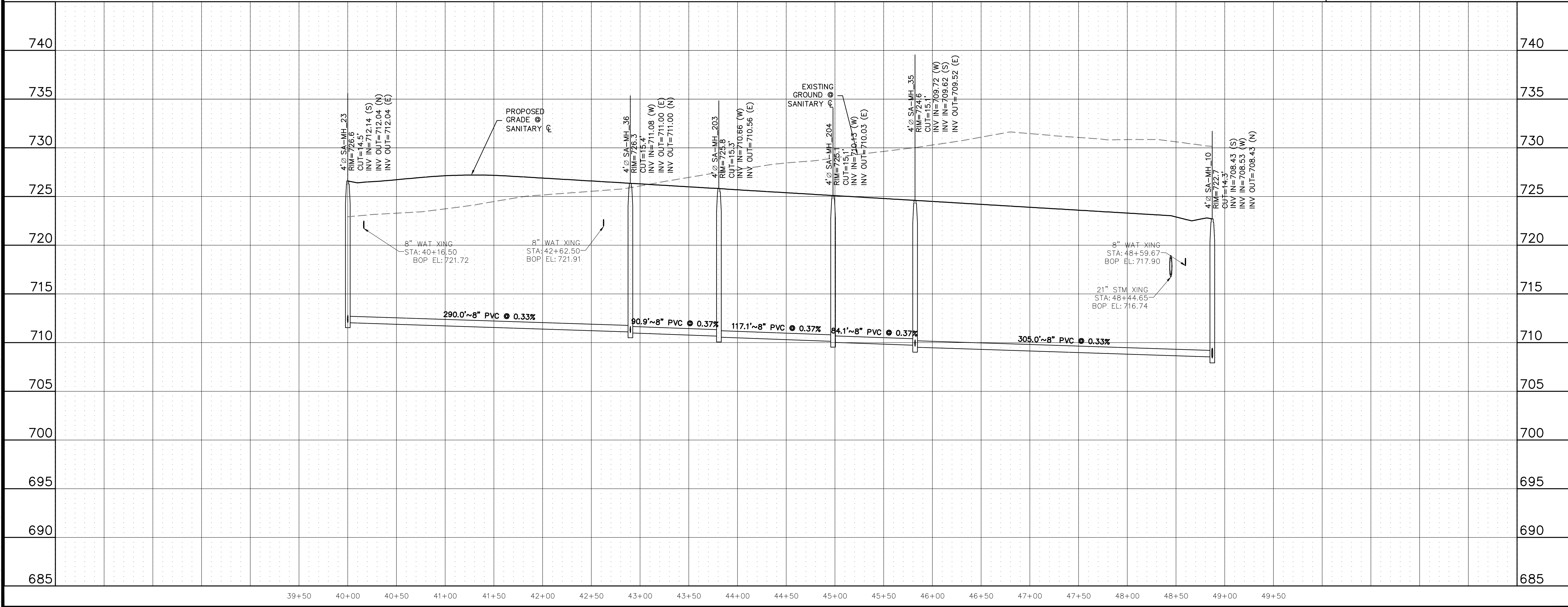
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RUN 8



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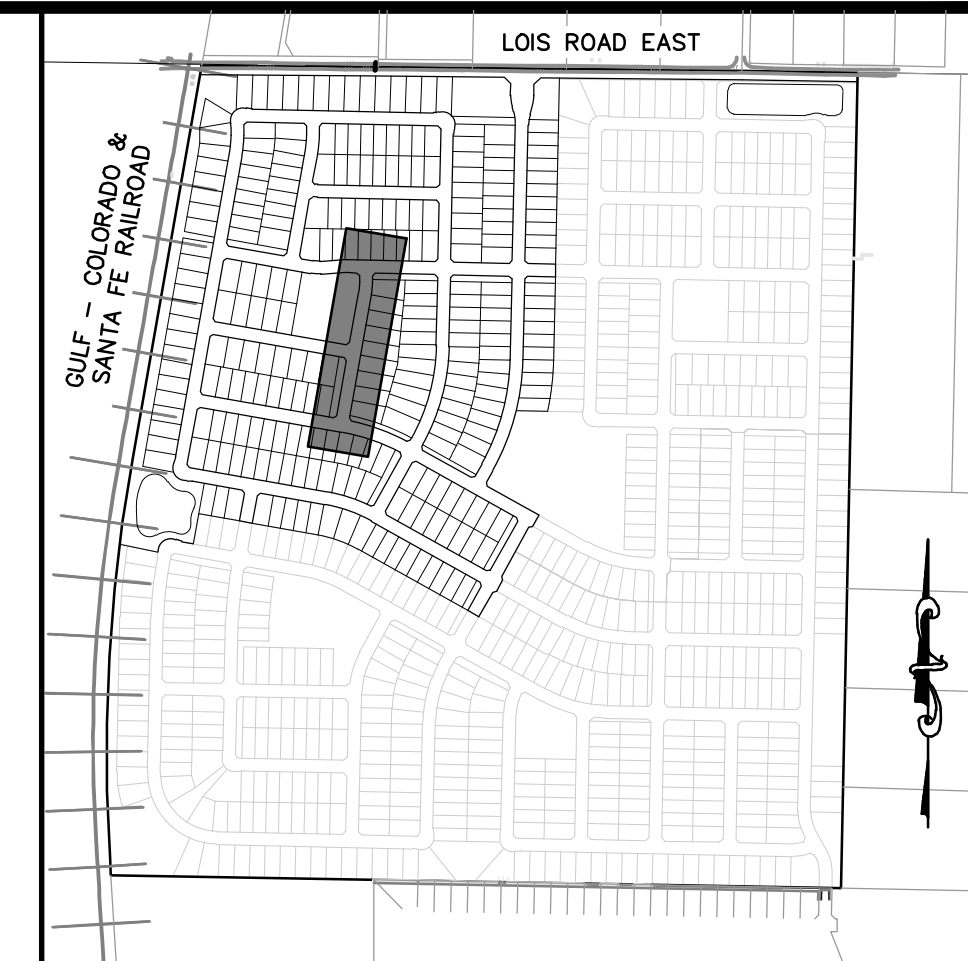
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P.M. JF

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SHEET NO. 57

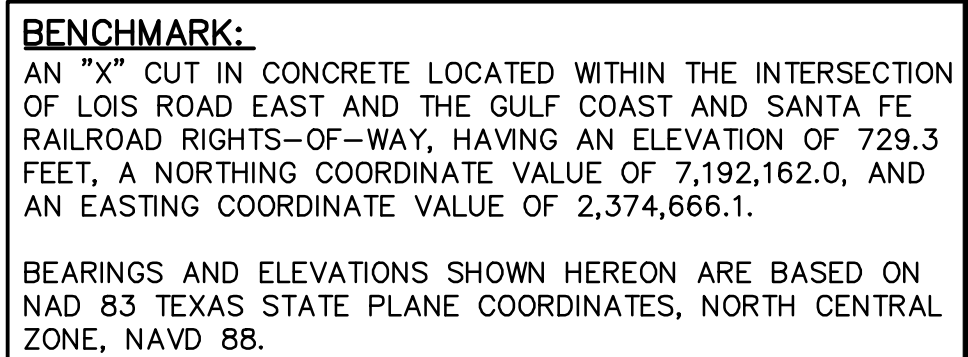


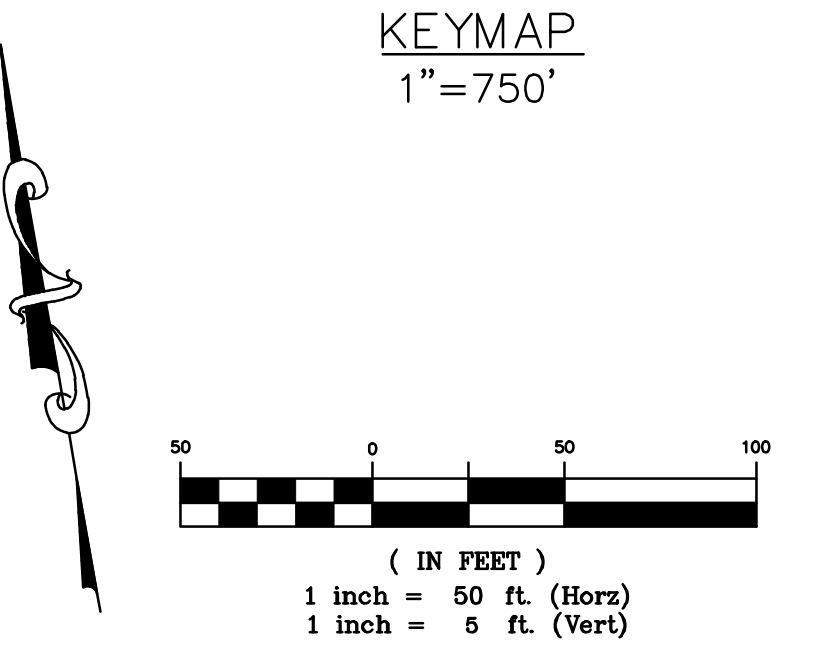
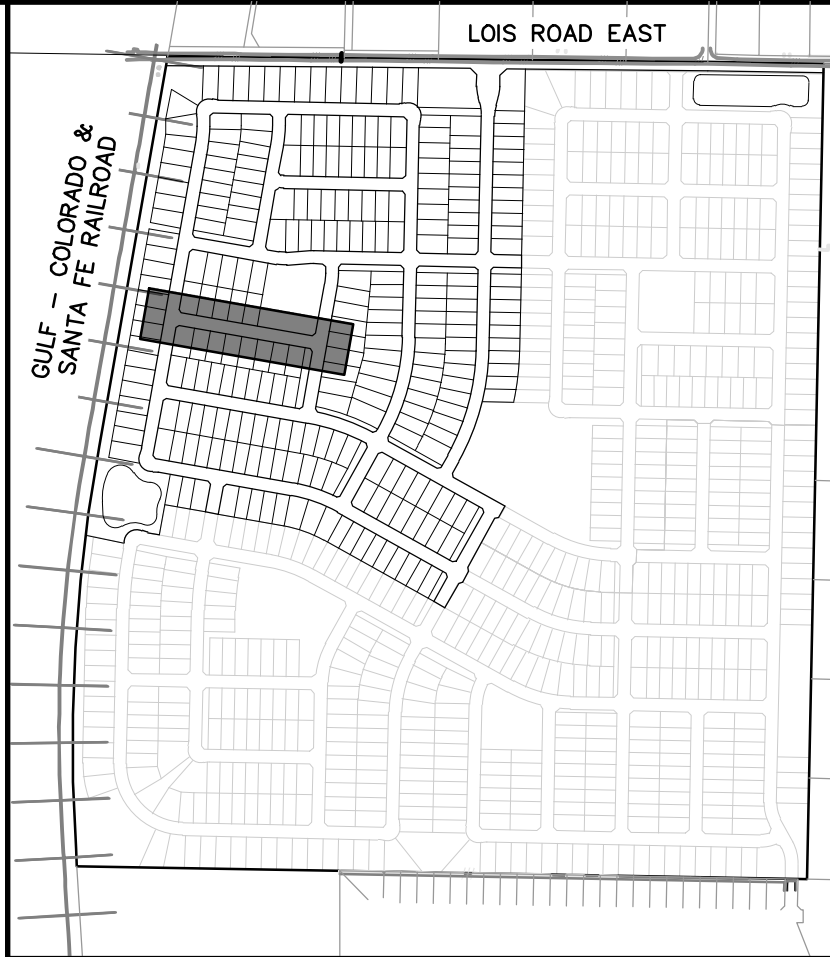
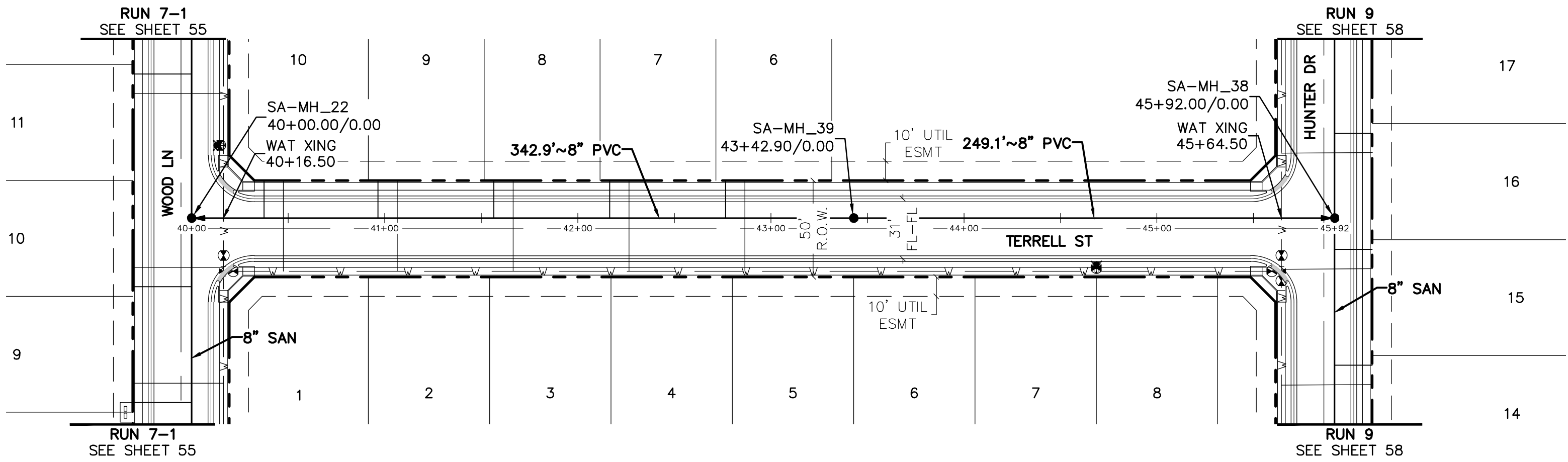
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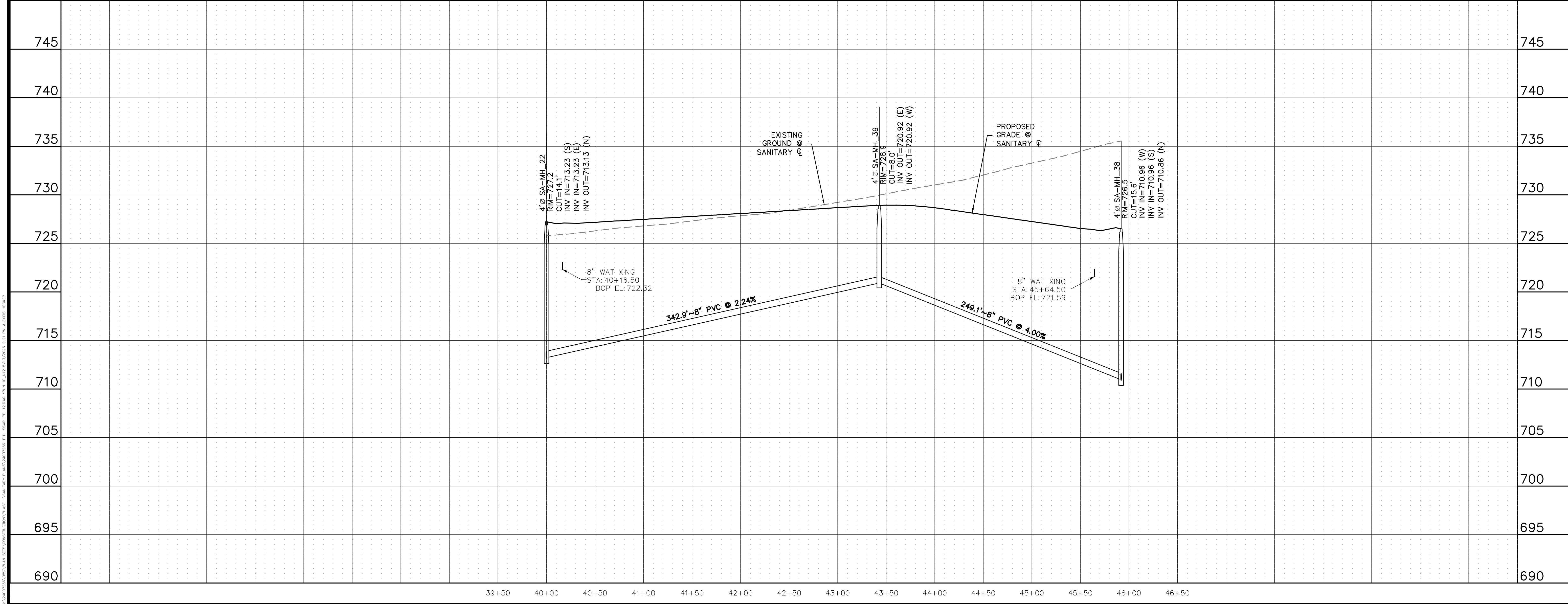
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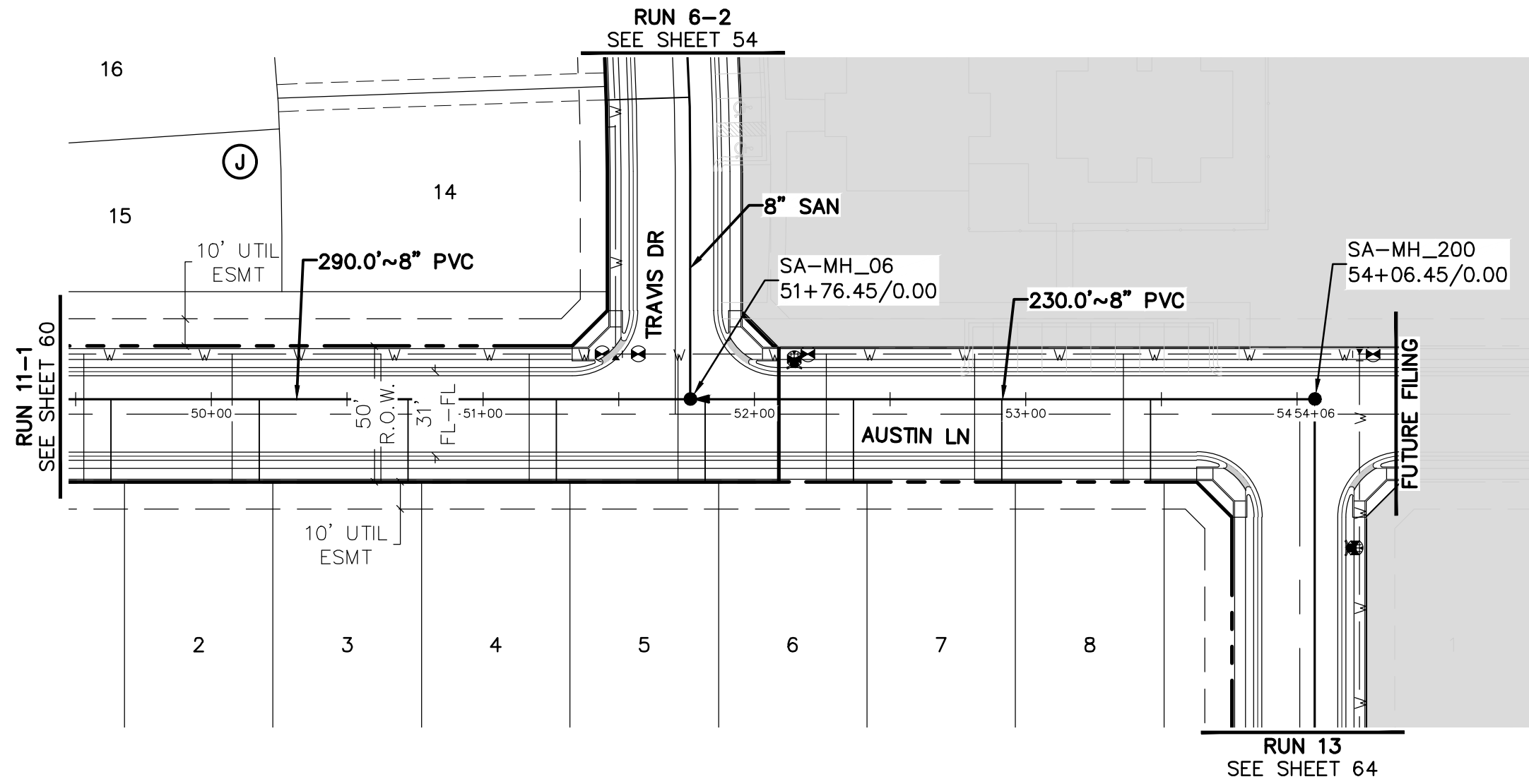
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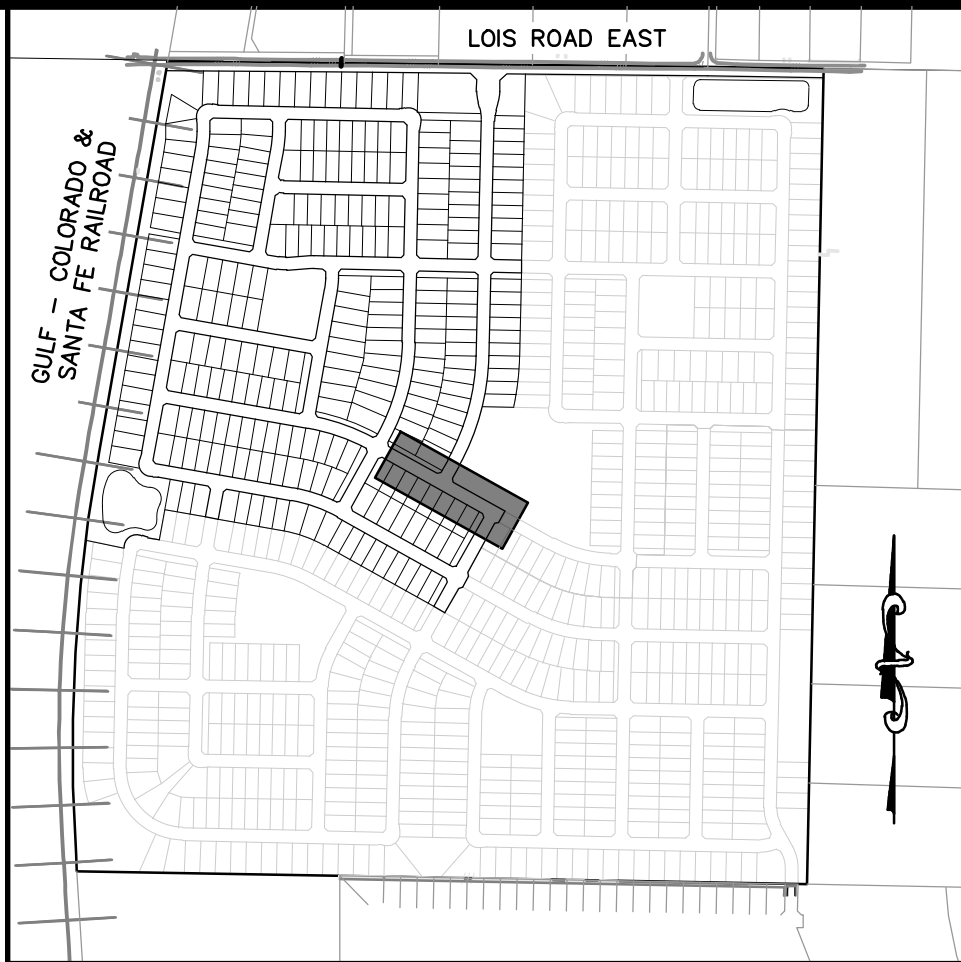
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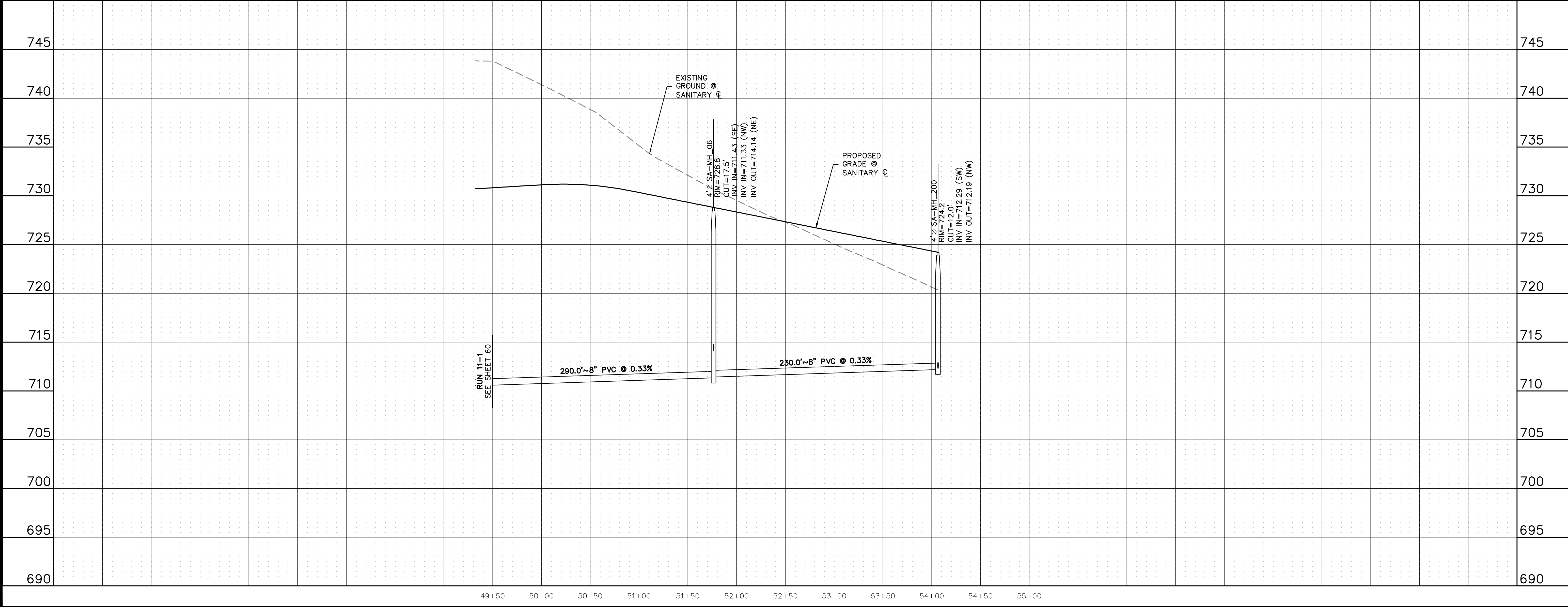


RUN 11-2



BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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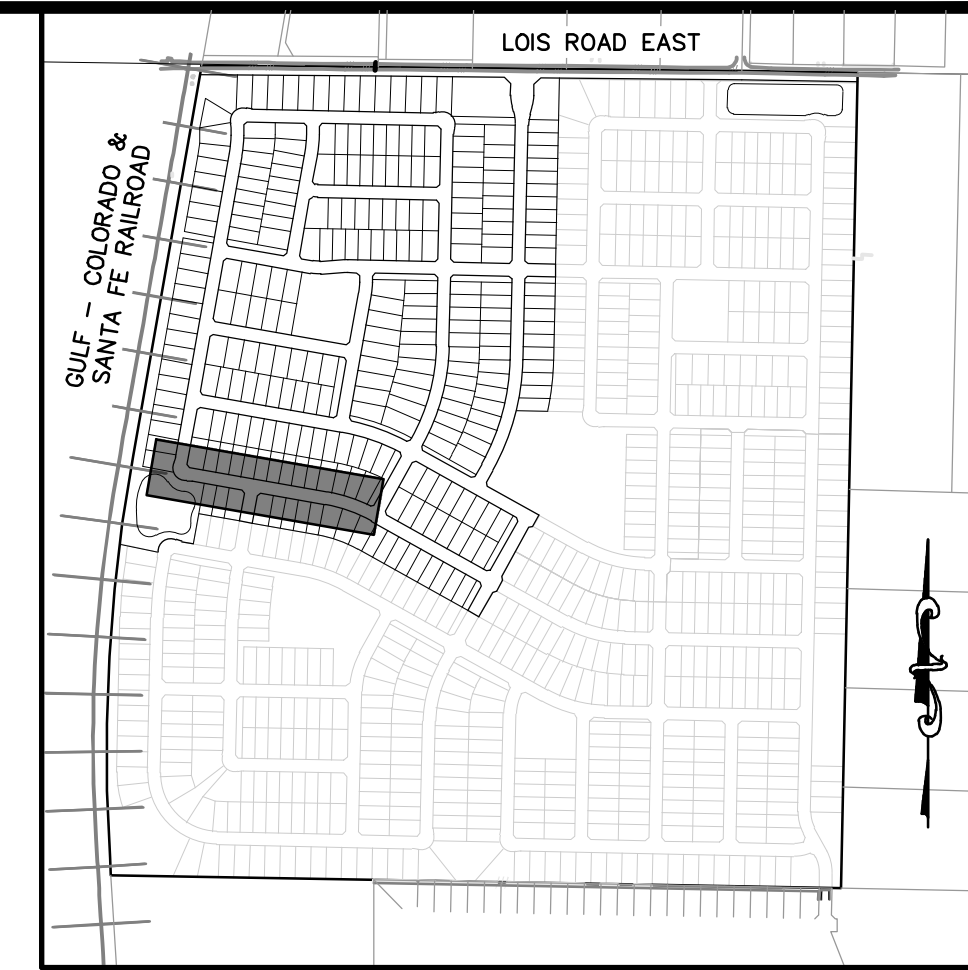
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KALTER CAPITAL	KALTER CAPITAL	KALTER CAPITAL	DR. TN CH. KB	
			P.M. JF	
KALTER CAPITAL	KALTER CAPITAL	KALTER CAPITAL	JOB 24007256	
			SHEET NO. 61	



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THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ON THIS MAP. THEY HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES PRIOR TO BEGINNING COMMENCING WORK, AND AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCURRED BY ANY CONTRACTOR FAILING TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

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This profile view illustrates the sanitary sewer system layout. The vertical axis represents elevation in feet, ranging from 695 to 750. The horizontal axis represents stationing, ranging from 39+50 to 48+50. The profile includes three manholes (MH 159, MH 18, and MH 02) and three pipe segments with varying slopes and materials. Key features include a proposed sanitary sewer line, existing ground and sanitary lines, and various crossings (WAT, STM, and STM XING). The profile also shows the proposed grade and existing ground elevations, as well as the invert and outlet elevations for each manhole.

Station	Feature	Elevation (ft)	Notes
40+00	8" WAT XING	718.89	STA: 40+36.50, BOP: EL: 718.89
40+36.50	Manhole 159	718.89	4" SA-MH-159, RIM=718.89, CUT=8.5', INV IN=715.34 (E), INV OUT=715.24 (N)
41+43.52	21" STM XING	718.40	STA: 41+43.52, BOP: EL: 718.40
43+00	Manhole 18	725.2	4" SA-MH-18, RIM=725.2, CUT=8.9', INV IN=716.45 (E), INV OUT=716.35 (W)
44+36.50	21" STM XING	719.74	STA: 44+36.50, BOP: EL: 719.74
46+00	Manhole 02	728.1	4" SA-MH-02, RIM=728.1, CUT=9.5', INV IN=717.34 (E), INV OUT=717.35 (W)

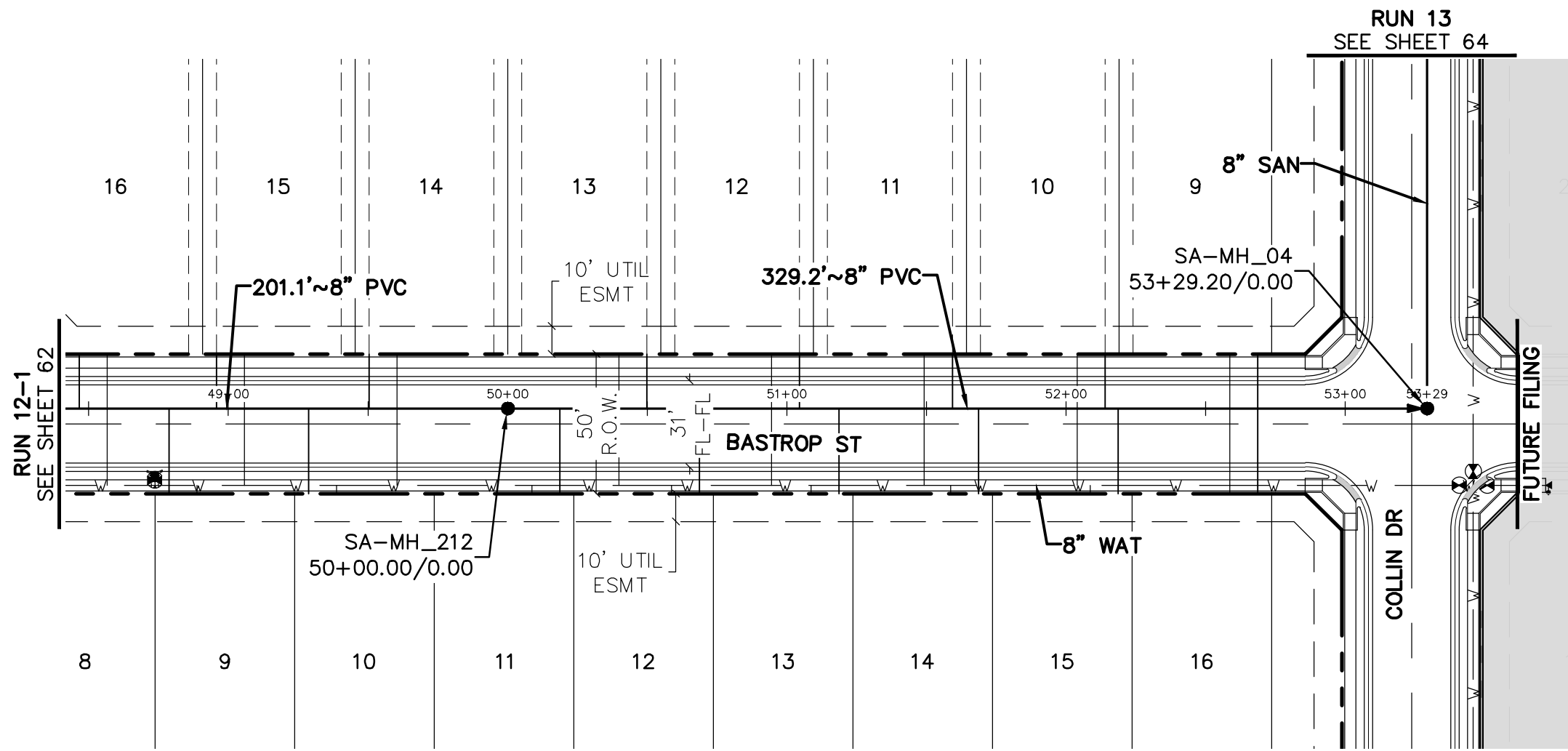
Pipe Segments:

- 303.5' ~ 8" PVC @ 0.33% (Station 40+36.50 to 43+00)
- 273.0' ~ 8" PVC @ 0.33% (Station 43+00 to 46+00)
- 202.5' ~ 8" PVC @ 0.57% (Station 46+00 to 48+00)
- 201.1' ~ 8" PVC @ 0.57% (Station 48+00 to 48+50)

Other Notes:

- EXISTING GROUND SANITARY (indicated by a dashed line)
- PROPOSED GRADE SANITARY (indicated by a solid line)
- 2.8' and 2.3' vertical clearances at crossings.
- 2.0' vertical clearance at the 44+36.50 crossing.
- RUN 12-2 SEE SHEET 63 (at station 48+50)

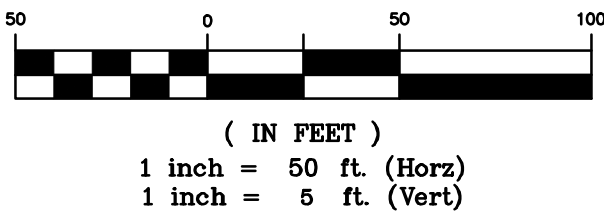
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RUN 12-2

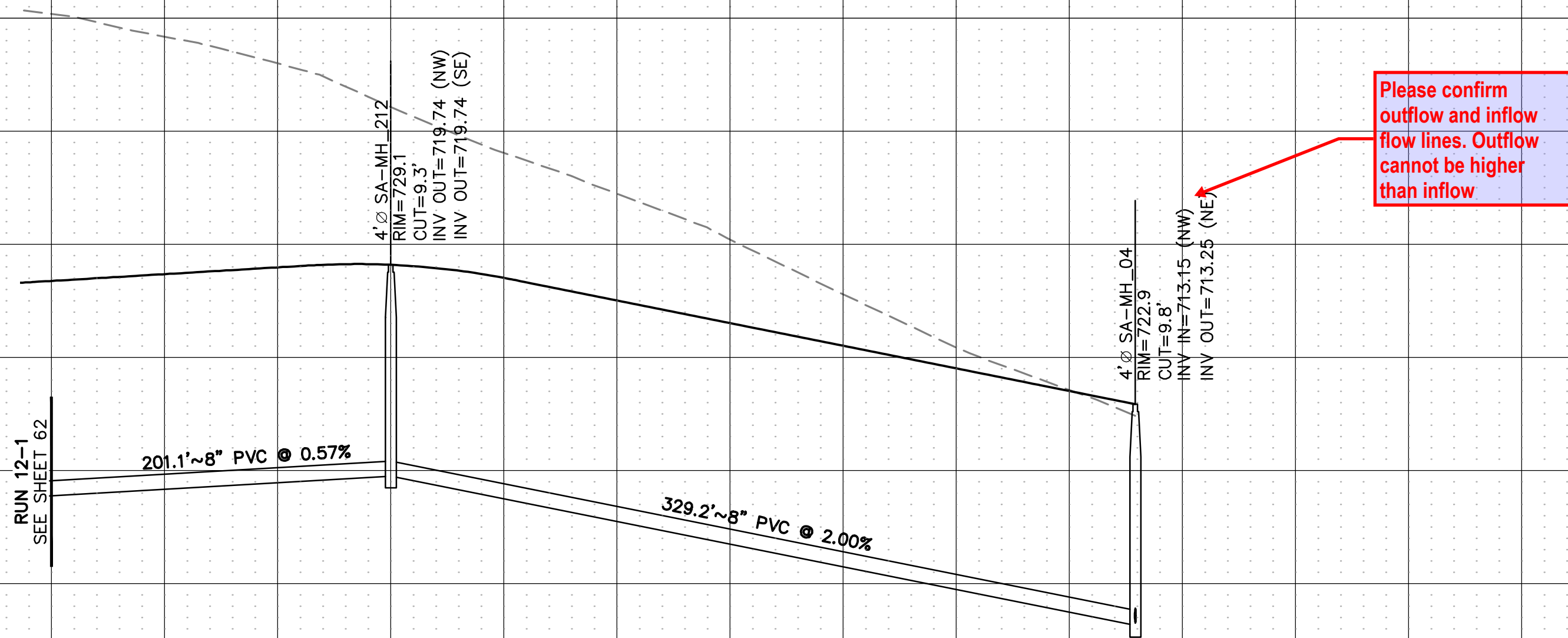


KEYMAP
1"=750'



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48+50 49+00 49+50 50+00 50+50 51+00 51+50 52+00 52+50 53+00 53+50 54+00

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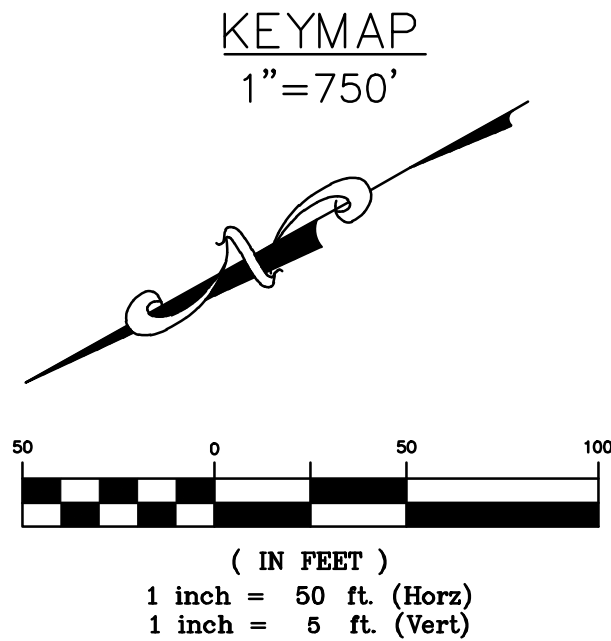
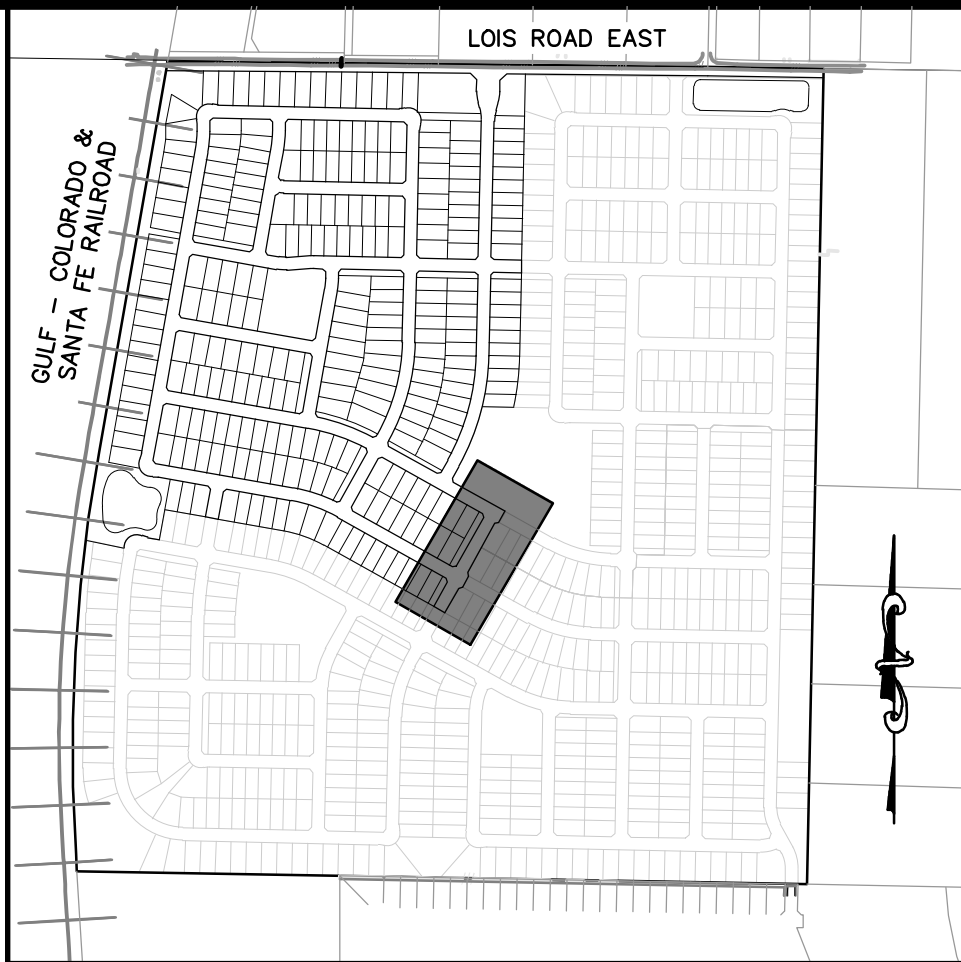
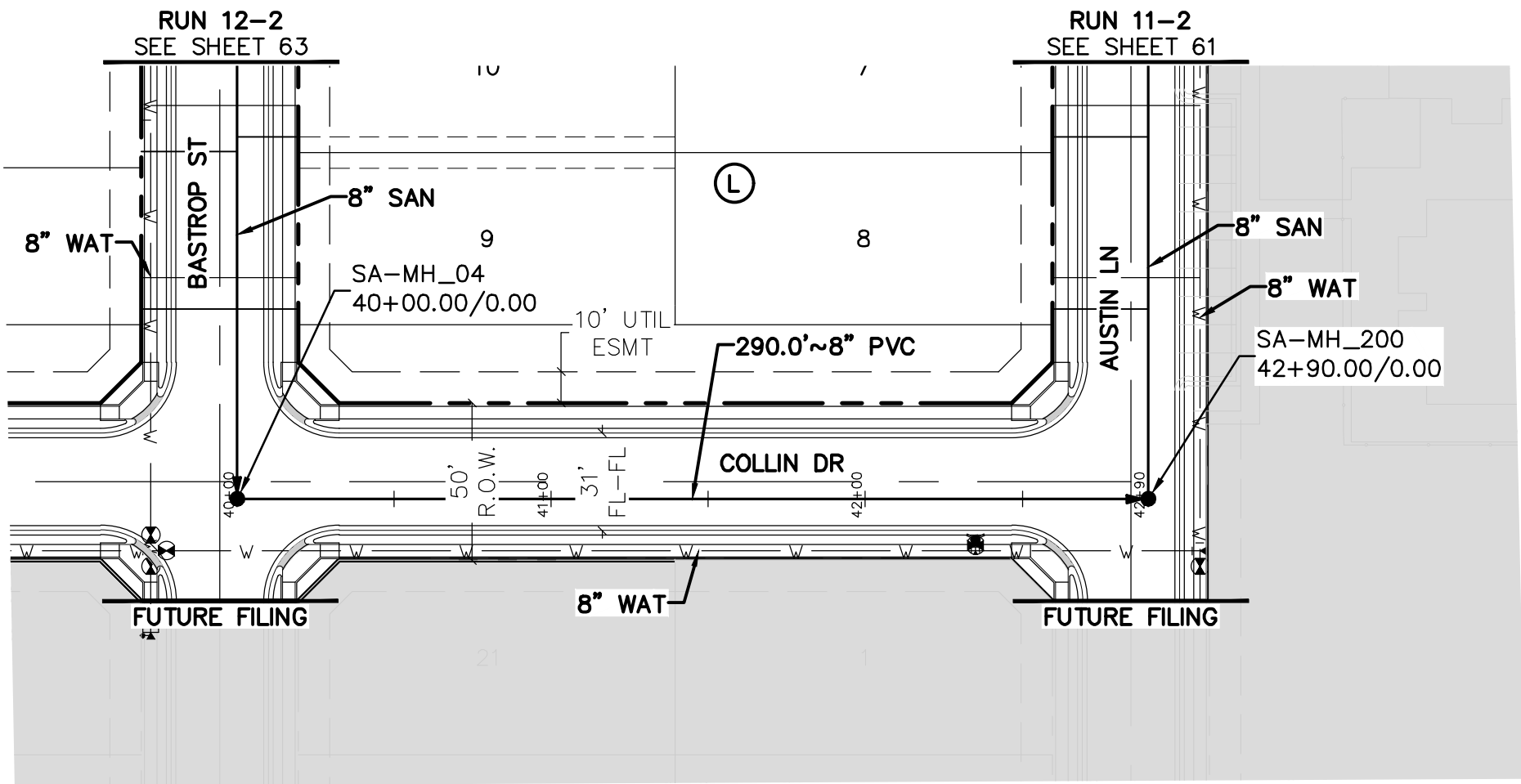
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CLIENT	LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS	SANITARY SEWER PLAN & PROFILES RUN 12-2	
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JOB	24007256		
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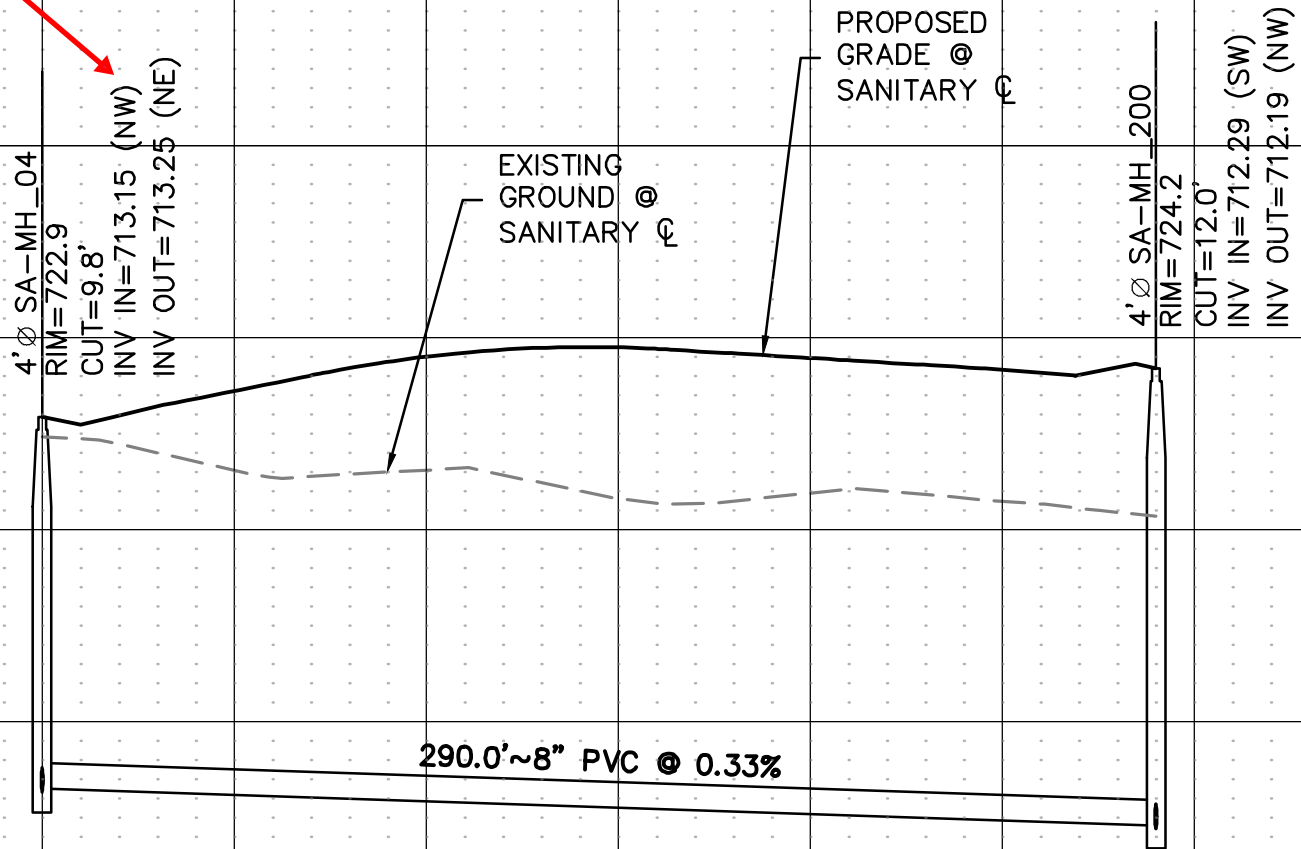


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RUN 13

Please confirm outflow and inflow flow lines. Outflow cannot be higher than inflow



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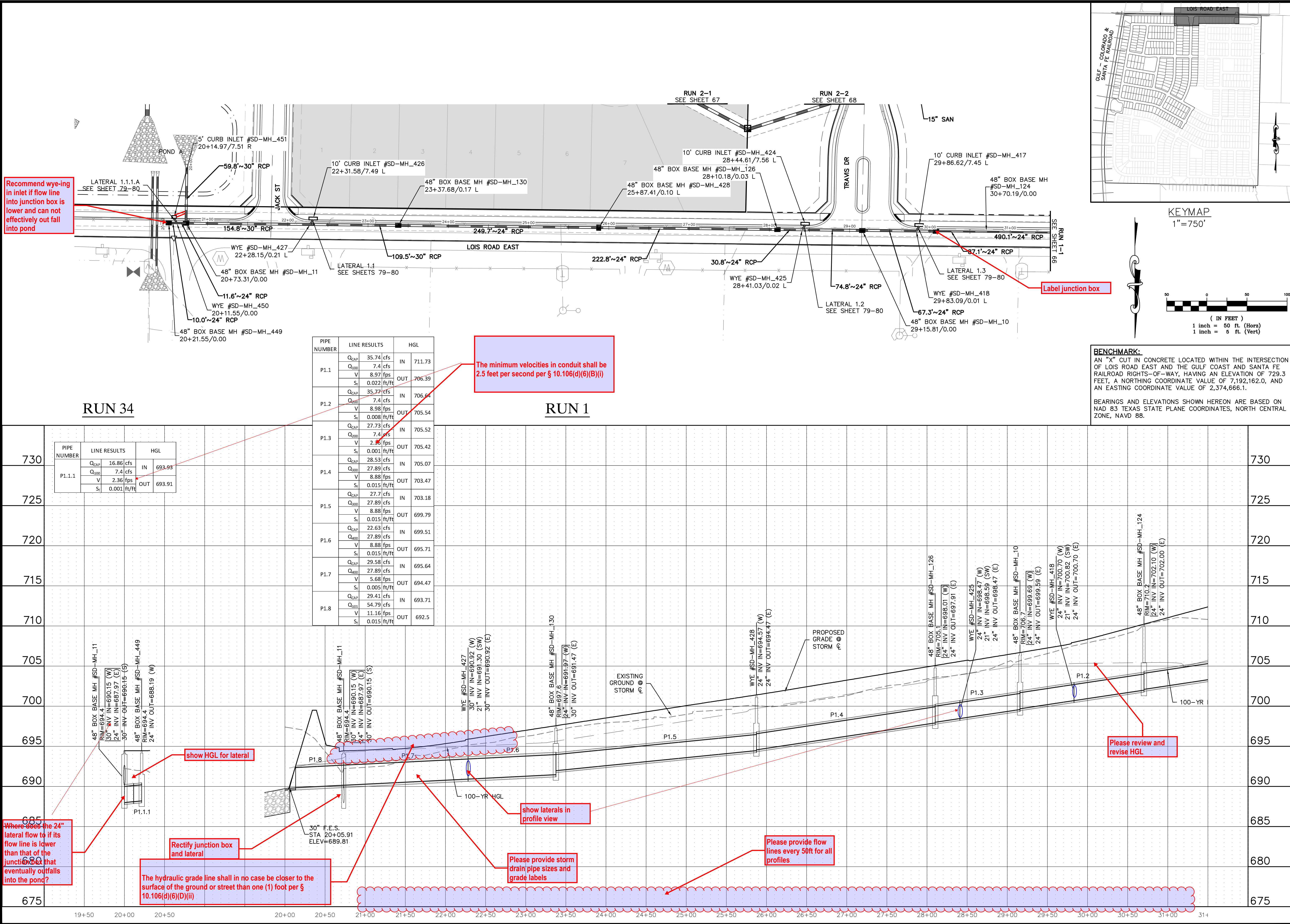
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JOB	24007256		
SHEET NO.	64		

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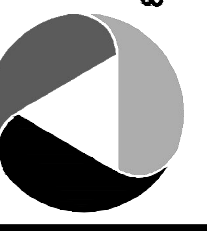


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LOIS ROAD ESTATES - FILING NOS. 1 & 2
CITY OF SANGER, COUNTY OF DENTON,
STATE OF TEXAS

STORM SEWER PLAN & PROFILES
RUN 1

DATE

4/7/2025

REVISIONS

NO.	DESCRIPTION	DATE	BY
A	1st SUBMITTAL TO JURISDICTION	4/7/2025	KMB
B	2nd SUBMITTAL TO JURISDICTION	5/12/2025	KMB

DR. TN

CH. KB

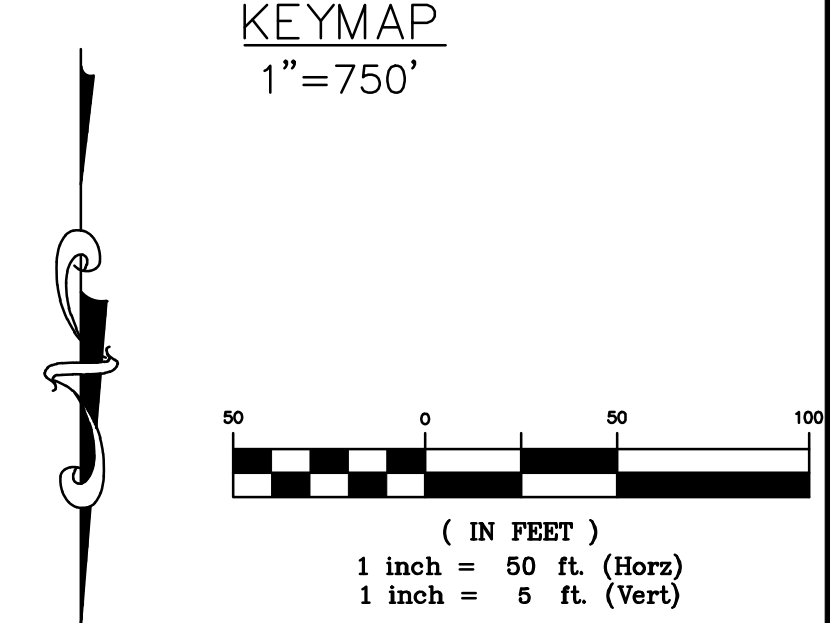
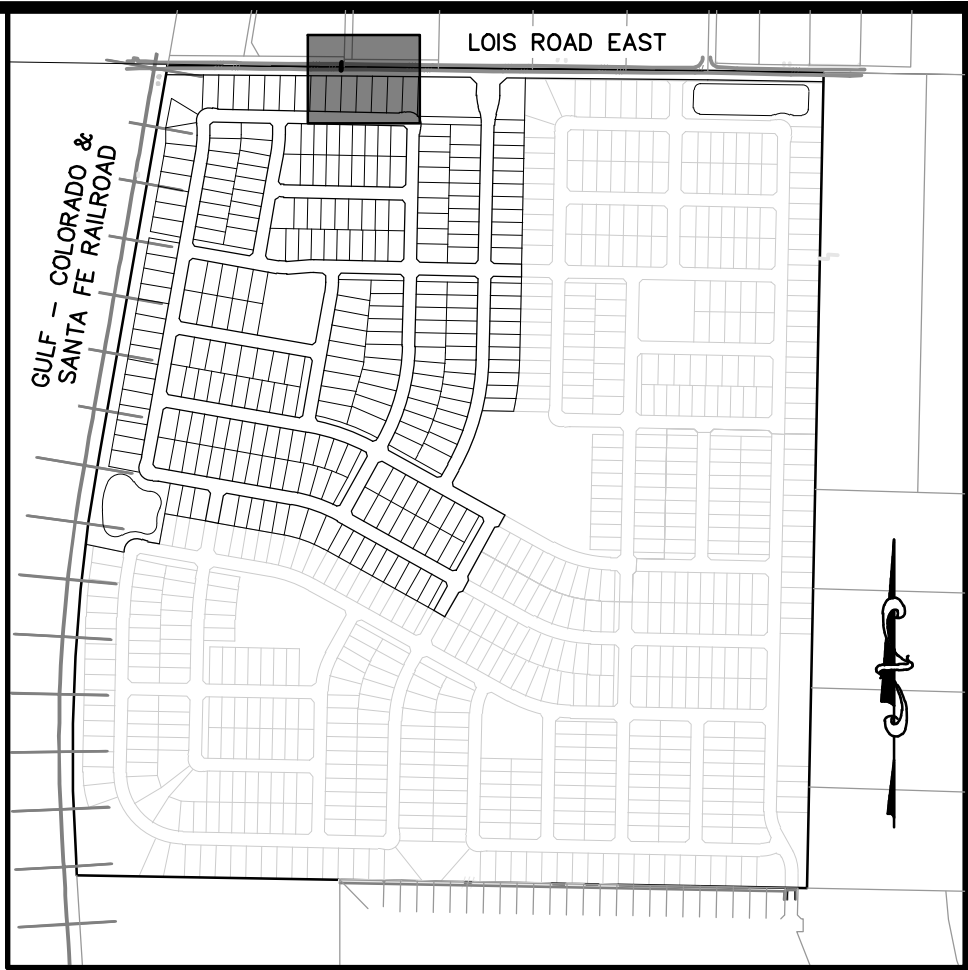
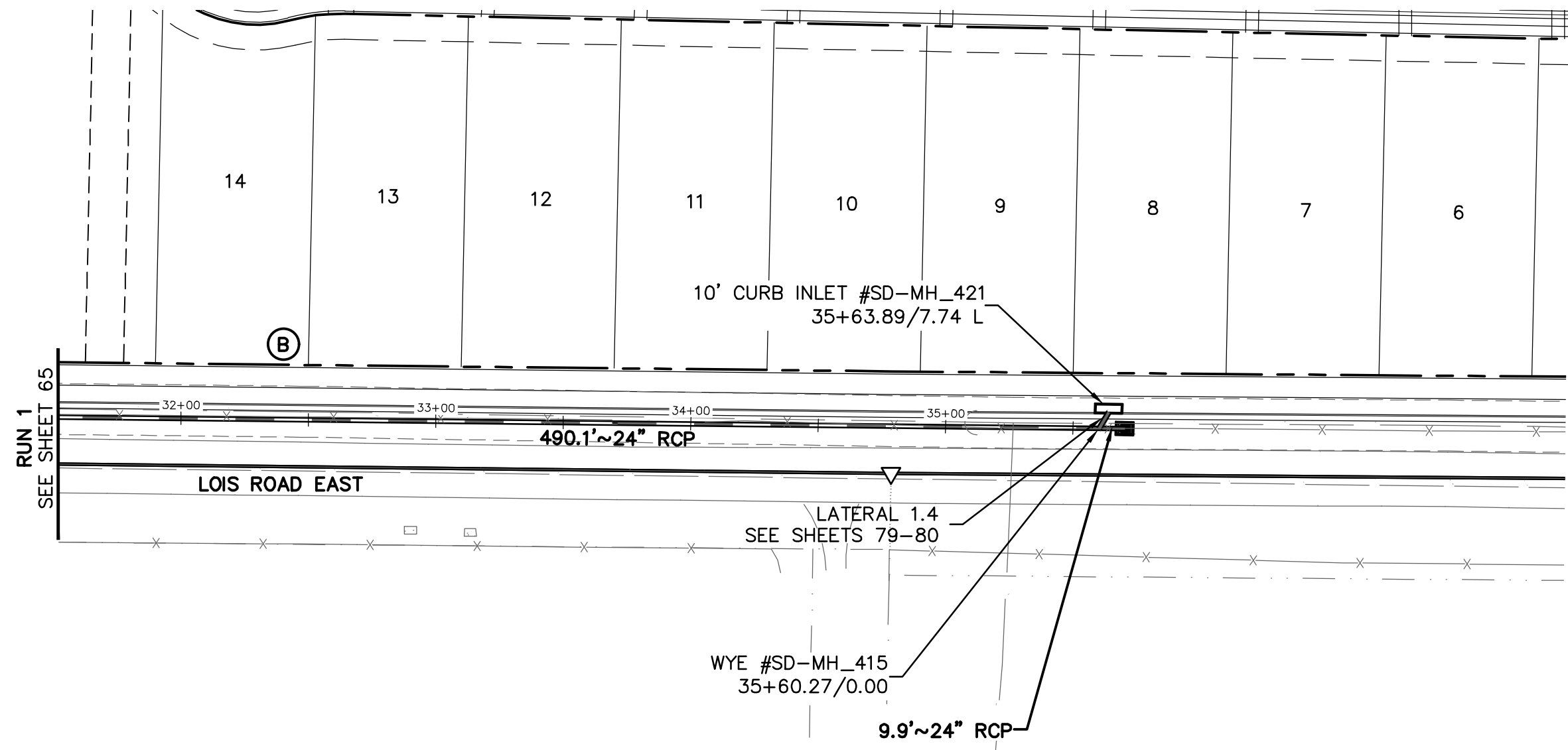
P.M. JF

JOB

24007256

SHEET NO.

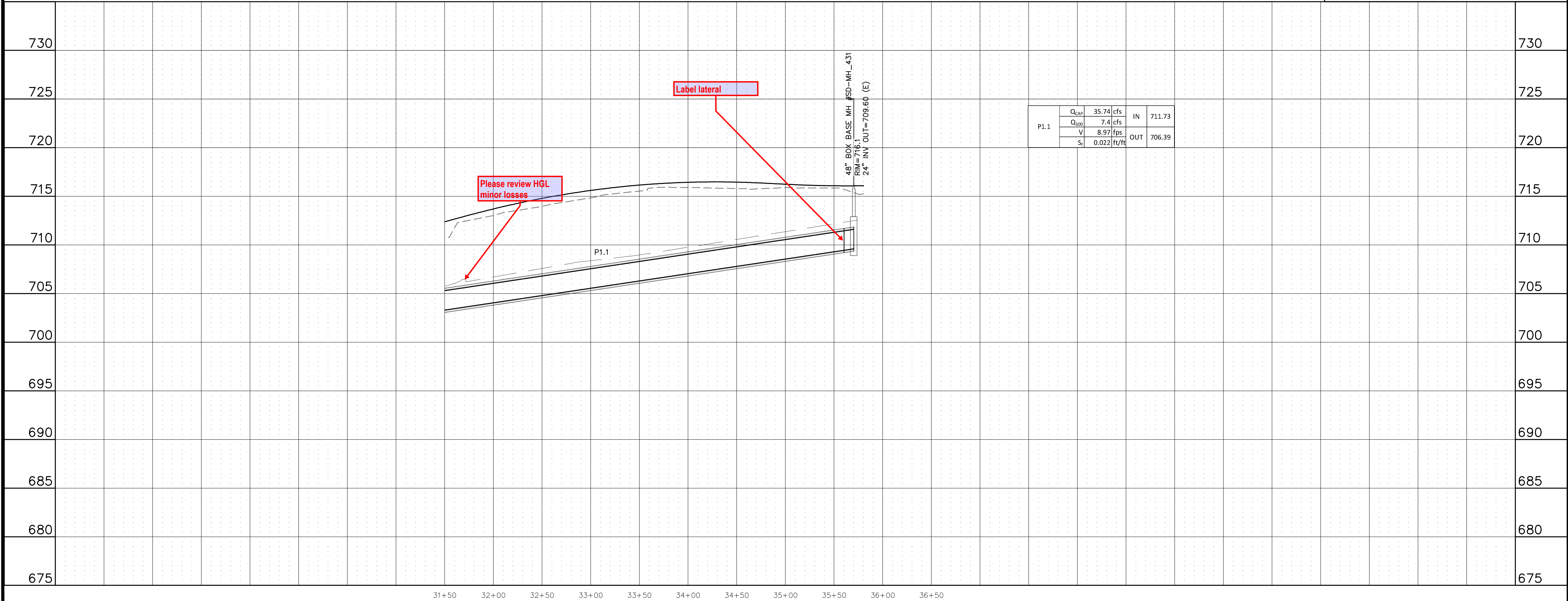
65



BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL ZONE, NAVD 88.

RUN 1-1



P1.1	Q _{CAV}	35.74	cfs	IN	711.73
	Q ₁₀₀	7.4	cfs		
	V	8.97	fps		
	S _f	0.022	ft/ft		
				OUT	706.39

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STATE OF TEXAS

STORM SEWER PLAN & PROFILES
RUN 1-1

DATE 4/7/2025

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B	2nd SUBMITTAL TO JURISDICTION	5/12/2025 - KMB

REVISIONS

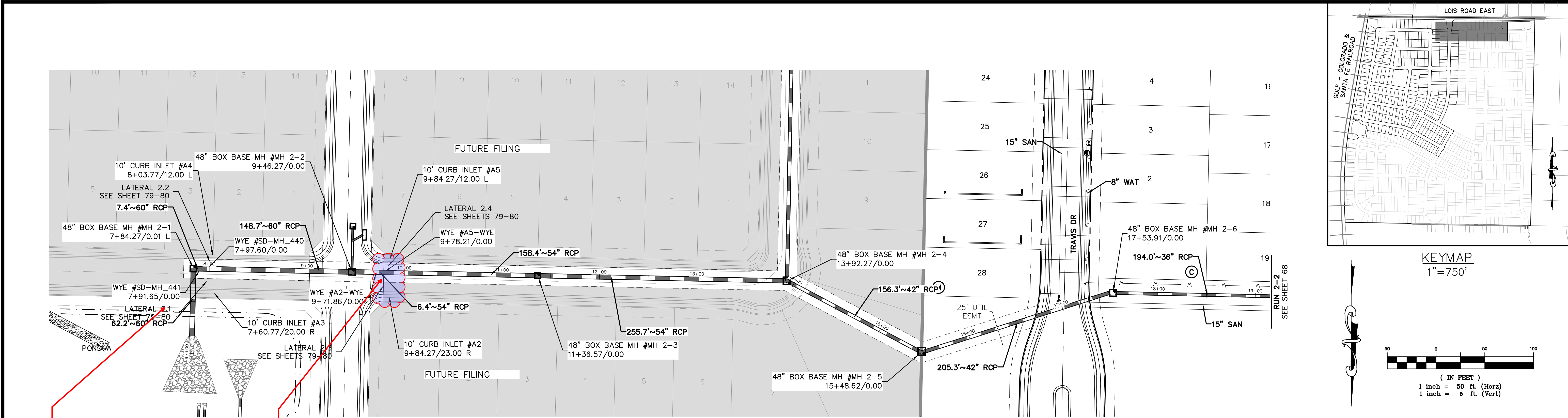
DR.	TN	CH.	KB
P.M.	JF		

JOB 24007256
SHEET NO. 66

K:\24007256\STORM PLAN SET\CONSTRUCTION\WSE - L1\STORM PLAN\24007256-PH1-STRM-PF01-1.DWG: PH1-STRM-PF01-1.DWG: 5/12/2025 9:22 AM: 2025: BELSON

CAD FILE: 24007256-PH1-STRM-PF01-1.DWG

\\KAC02215\PROJECTS\240007256-PRH-STORM-P&P-02.DWG 11/17/2025 2:24 PM TCDL MCDL

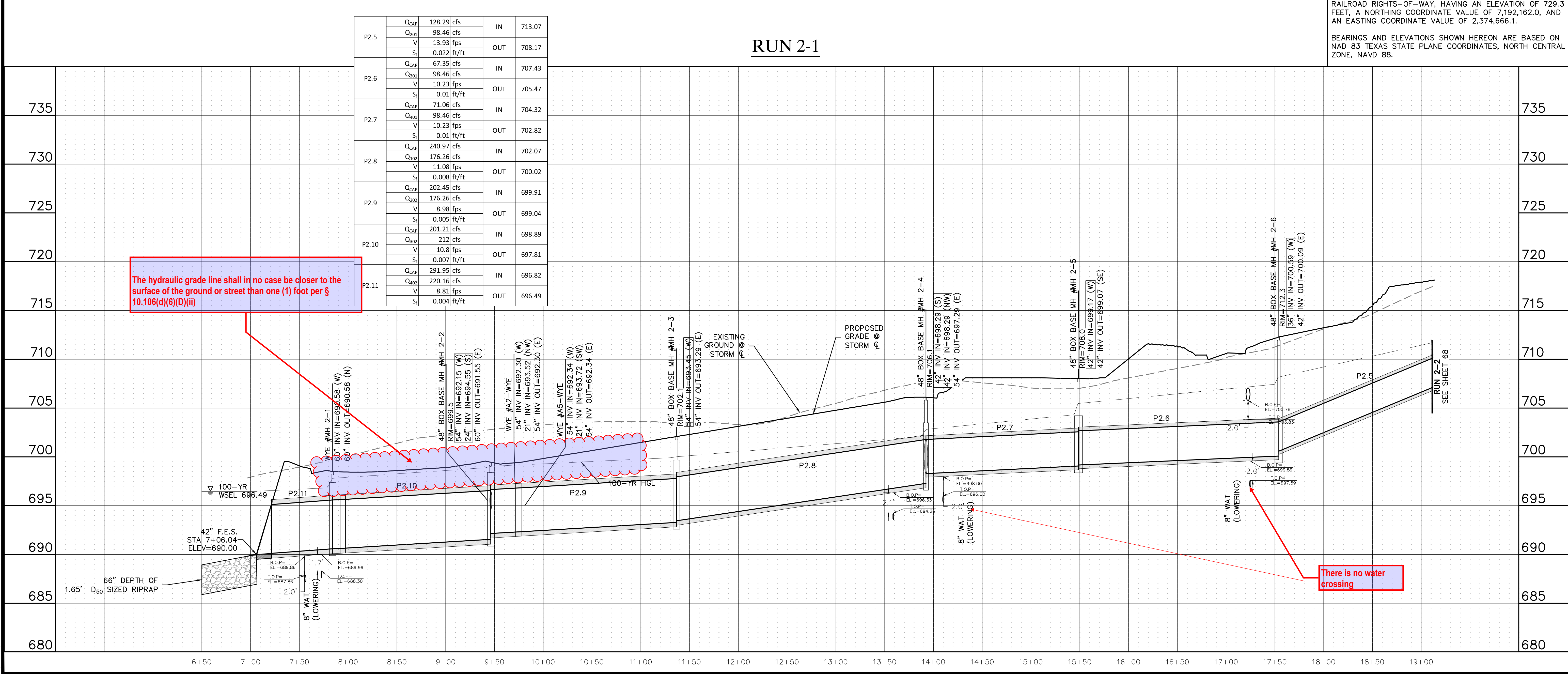


Show future lateral stub outs

Wyes are missing on plan view

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735

730

725

720

715

710

705

700

695

690

685

680

RUN 2-1

P2.5	Q _{cap}	128.29	cfs	IN	713.07
	Q ₂₀₁	98.46	cfs		
	V	13.93	fps		
	S _i	0.022	ft/ft		
P2.6	Q _{cap}	67.35	cfs	IN	707.43
	Q ₂₀₁	98.46	cfs		
	V	10.23	fps		
	S _i	0.01	ft/ft		
P2.7	Q _{cap}	71.06	cfs	IN	704.32
	Q ₂₀₁	98.46	cfs		
	V	10.23	fps		
	S _i	0.01	ft/ft		
P2.8	Q _{cap}	240.97	cfs	OUT	702.82
	Q ₂₀₂	176.26	cfs		
	V	11.08	fps		
	S _i	0.008	ft/ft		
P2.9	Q _{cap}	202.45	cfs	IN	702.07
	Q ₂₀₂	176.26	cfs		
	V	8.98	fps		
	S _i	0.005	ft/ft		
P2.10	Q _{cap}	201.21	cfs	OUT	700.02
	Q ₂₀₂	212	cfs		
	V	10.8	fps		
	S _i	0.007	ft/ft		
P2.11	Q _{cap}	291.95	cfs	IN	699.91
	Q ₂₀₂	220.16	cfs		
	V	8.81	fps		
	S _i	0.004	ft/ft		

The hydraulic grade line shall in no case be closer to the surface of the ground or street than one (1) foot per § 10.106(d)(6)(D)(ii)

There is no water crossing

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STATE OF TEXAS

STORM SEWER PLAN & PROFILES
RUN 2-1

DATE

4/7/2025

REVISIONS

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B	2nd SUBMITTAL TO JURISDICTION	5/17/2025	- RMB

DR. TN

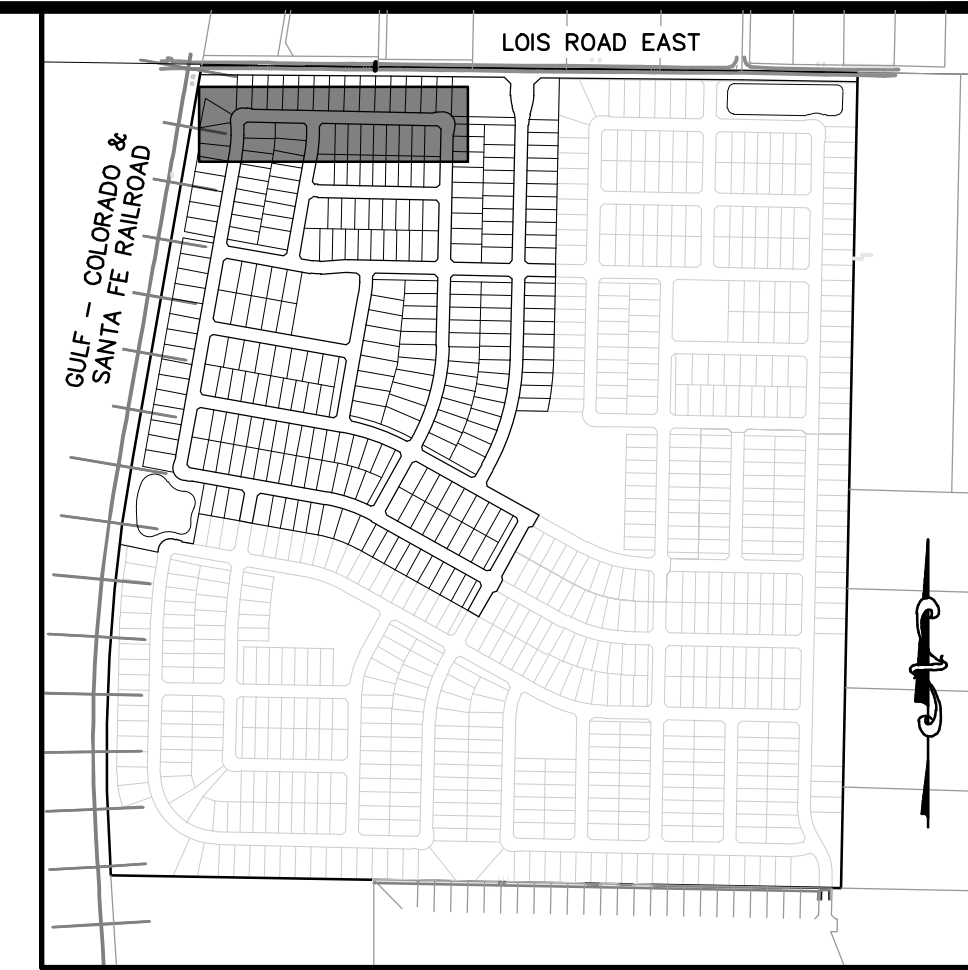
P.M. JF

CH. KB

JOB 24007256

SHEET NO. 67

CAD FILE: 24007256-PRH-STORM-P&P-02.DWG



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Sanitary sewer hydraulic profile drawing showing pipe segments P2.1, P2.2, P2.3, and P2.4. The drawing includes a 100-year hydraulic grade line (HGL) and various pipe specifications. A red callout box notes: "HGL cannot continue past storm drain alignment. Please review and revise HGL's". Another red callout box notes: "Minor losses are supposed to happen at the bends, junction boxes, wyes and inlets as opposed to in the middle of the pipe segments. Please revise HGL's and hydraulic calculations accordingly".

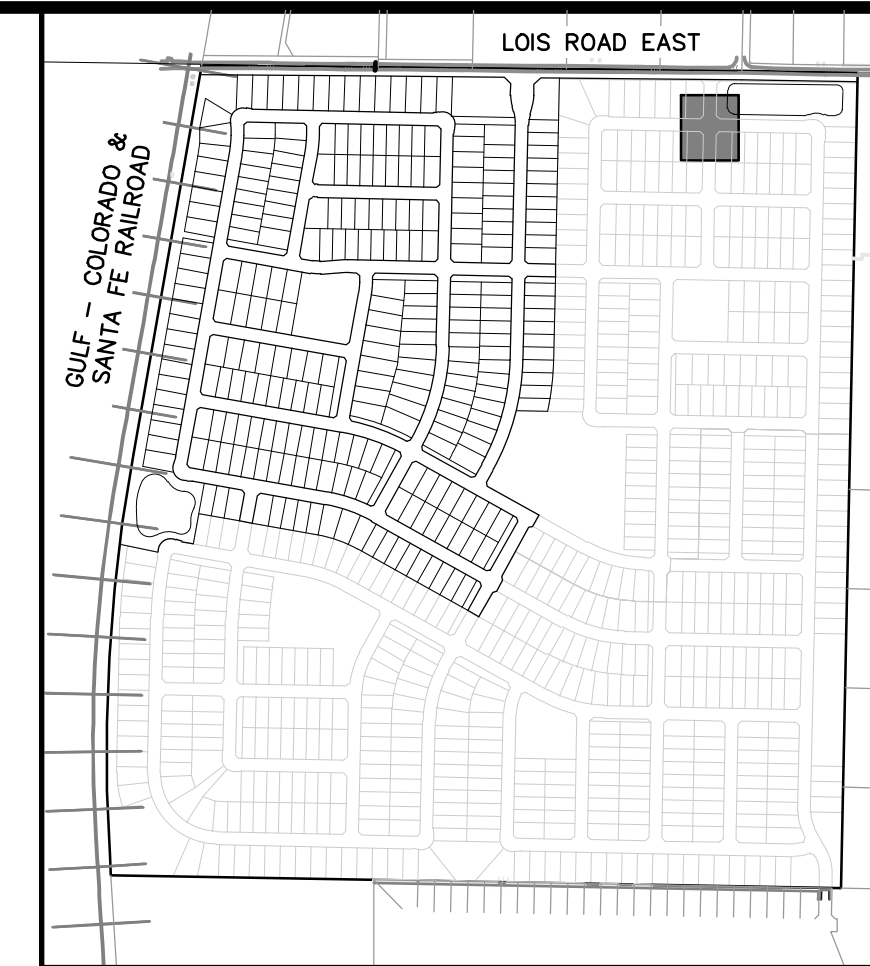
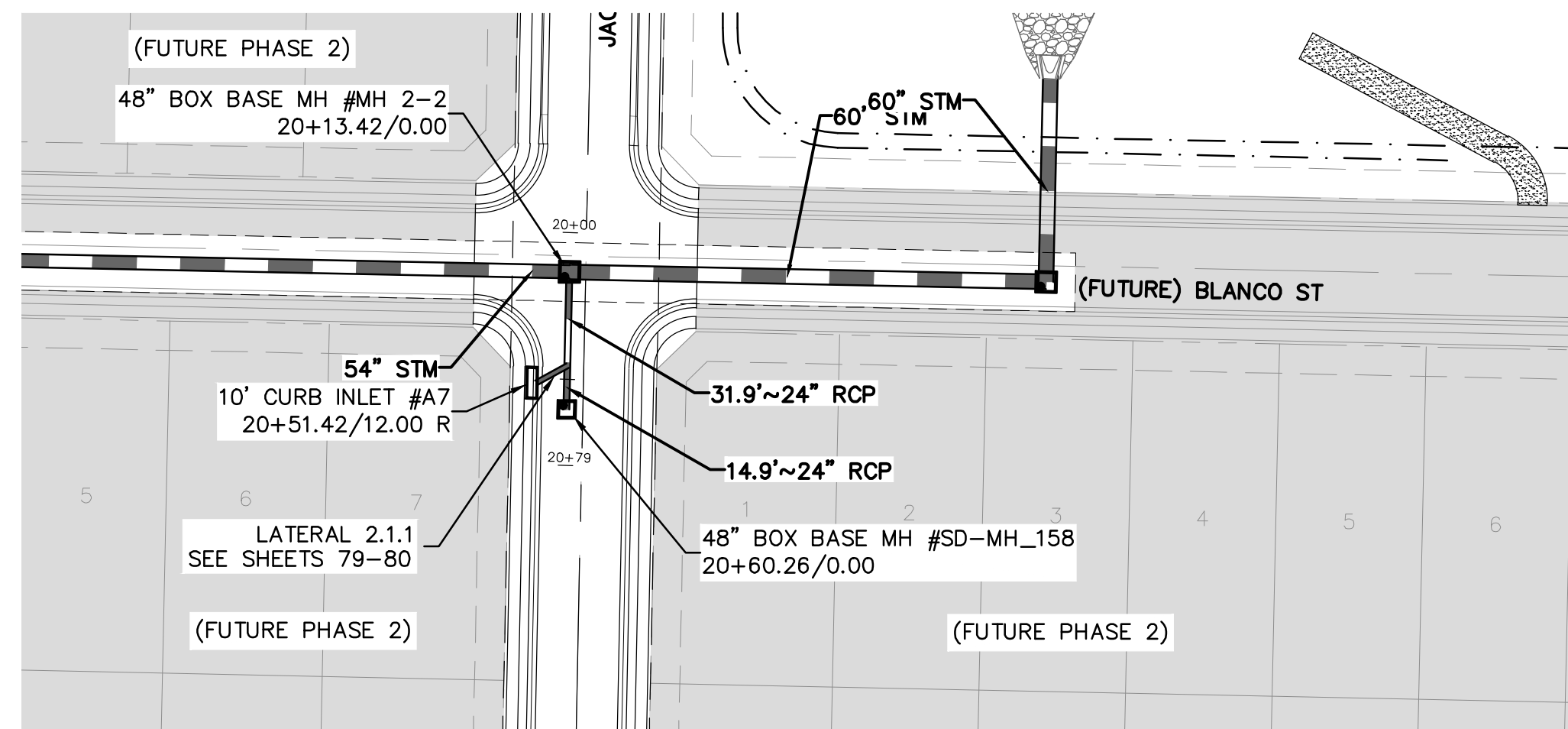
PIPE NUMBER	LINE RESULTS		HGL	
	Q _{cap}	Q ₁₀₀	V	S _f
P2.1	19.74 cfs	31.4 cfs	9.99 fps	0.019 ft/ft
	57.69 cfs	51.56 cfs	7.29 fps	0.006 ft/ft
	51.63 cfs	51.56 cfs	7.29 fps	0.006 ft/ft
	131.97 cfs	80.62 cfs	11.41 fps	0.015 ft/ft
P2.2	19.74 cfs	31.4 cfs	9.99 fps	0.019 ft/ft
	57.69 cfs	51.56 cfs	7.29 fps	0.006 ft/ft
	51.63 cfs	51.56 cfs	7.29 fps	0.006 ft/ft
	131.97 cfs	80.62 cfs	11.41 fps	0.015 ft/ft
P2.3	19.74 cfs	31.4 cfs	9.99 fps	0.019 ft/ft
	57.69 cfs	51.56 cfs	7.29 fps	0.006 ft/ft
	51.63 cfs	51.56 cfs	7.29 fps	0.006 ft/ft
	131.97 cfs	80.62 cfs	11.41 fps	0.015 ft/ft
P2.4	19.74 cfs	31.4 cfs	9.99 fps	0.019 ft/ft
	57.69 cfs	51.56 cfs	7.29 fps	0.006 ft/ft
	51.63 cfs	51.56 cfs	7.29 fps	0.006 ft/ft
	131.97 cfs	80.62 cfs	11.41 fps	0.015 ft/ft

PIPE NUMBER	LINE RESULTS		HGL	
P2.1	Q _{CA9}	19.74 cfs	IN	721.08
	Q ₁₀₀	31.4 cfs		
	V	9.99 fps	OUT	720.15
	S _r	0.019 ft/ft		
P2.2	Q _{CA5}	57.69 cfs	IN	719.98
	Q ₂₀₀	51.56 cfs		
	V	7.29 fps	OUT	718.41
	S _r	0.006 ft/ft		
P2.3	Q _{CA9}	51.63 cfs	IN	718.3
	Q ₄₀₀	51.56 cfs		
	V	7.29 fps	OUT	716.73
	S _r	0.006 ft/ft		
P2.4	Q _{CA9}	131.97 cfs	IN	715.76
	Q ₁₀₁	80.62 cfs		
	V	11.41 fps	OUT	715
	S _r	0.015 ft/ft		

HGL cannot continue past storm drain alignment. Please review and revise HGL's

Minor losses are supposed to happen at the bends, junction boxes, wyes and inlets as opposed to in the middle of the pipe segments. Please revise HGL's and hydraulic calculations accordingly

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				MICHAEL PRIYOR	
CLIENT					
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B	2nd SUBMITTAL TO JURISDICTION 5/17/2025 – RMR				
REVISIONS					



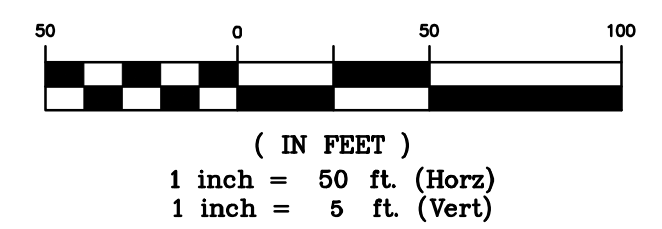
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KEYMAP
1"=750'



BENCHMARK:

AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON
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ZONE, NAVD 88.



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STATE OF TEXAS
STORM SEWER PLAN & PROFILES
RUN 2.1

CLIENT
LOIS
CL

DATE 4/7/2025

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B	2 ND SUBMITTAL TO JURISDICTION 5/12/2025 - KMB

REVISIONS

1000

1000

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DB	TN	CH	KR
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DR.	IN	CH.	KB
P.M. JF			

JOB 24007256
SHEET NO.

69

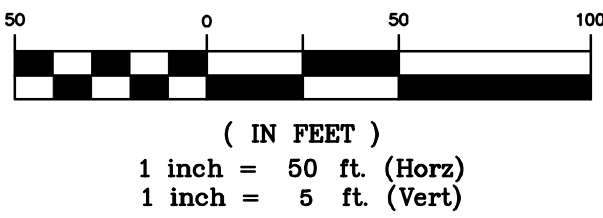
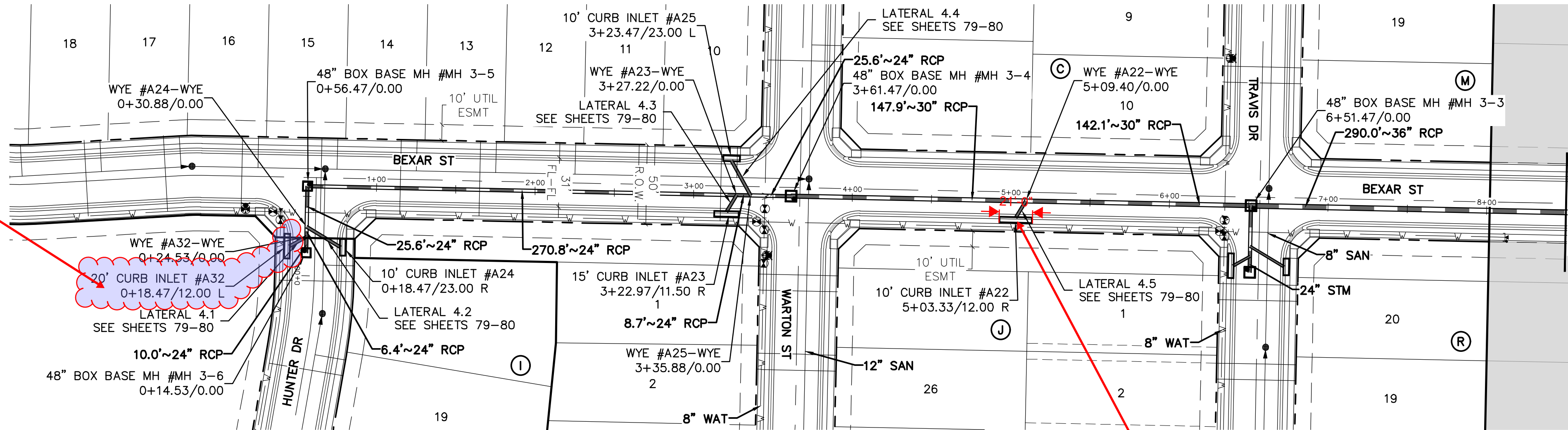
CAD FILE: 24007256-PH1-STRM-P&P-02.1.DWG

Minimum sizes of laterals shall be 18 inches for use with 5-foot inlets, 21-inch laterals with 10-foot, 15 foot, and drop inlets and 24-inch laterals for 20-foot inlets

This appears to be a 20ft curb inlet. Please update both label and lateral accordingly

The hydraulic grade line shall in no case be closer to the surface of the ground or street than one (1) foot per § 10.106(d)(6)(D)(ii)

Please show where HGL label is pointing to.

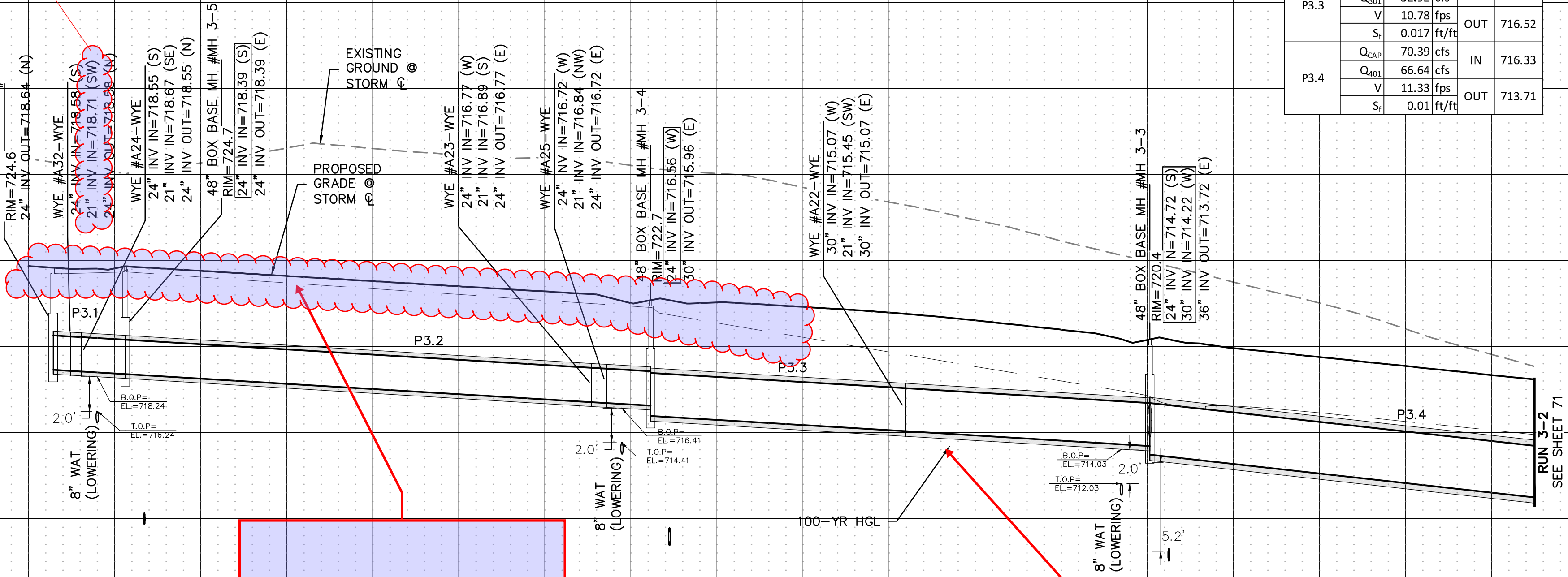


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RUN 3-1

P3.1	Q _{cap}	31.67	cfs	IN	724.45
	Q ₃₀₁	30.64	cfs		
	V	6.24	fps		
	S _p	0.006	ft/ft		
P3.2	Q _{cap}	31.77	cfs	OUT	723.47
	Q ₃₀₁	30.64	cfs		
	V	6.24	fps		
	S _p	0.006	ft/ft		
P3.3	Q _{cap}	31.77	cfs	IN	721.45
	Q ₃₀₁	52.92	cfs		
	V	10.78	fps		
	S _p	0.017	ft/ft		
P3.4	Q _{cap}	70.39	cfs	IN	716.33
	Q ₃₀₁	66.64	cfs		
	V	11.33	fps		
	S _p	0.01	ft/ft		



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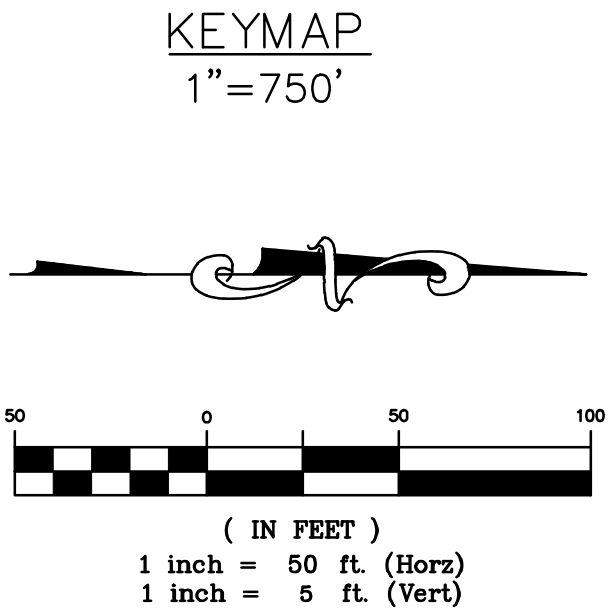
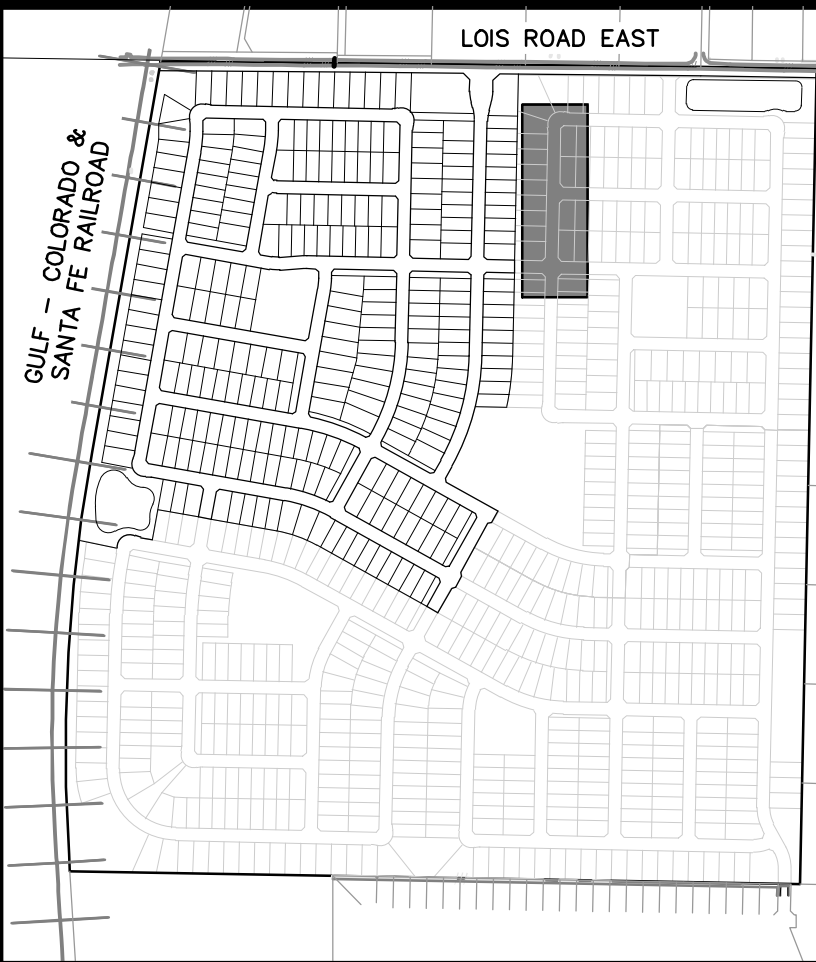
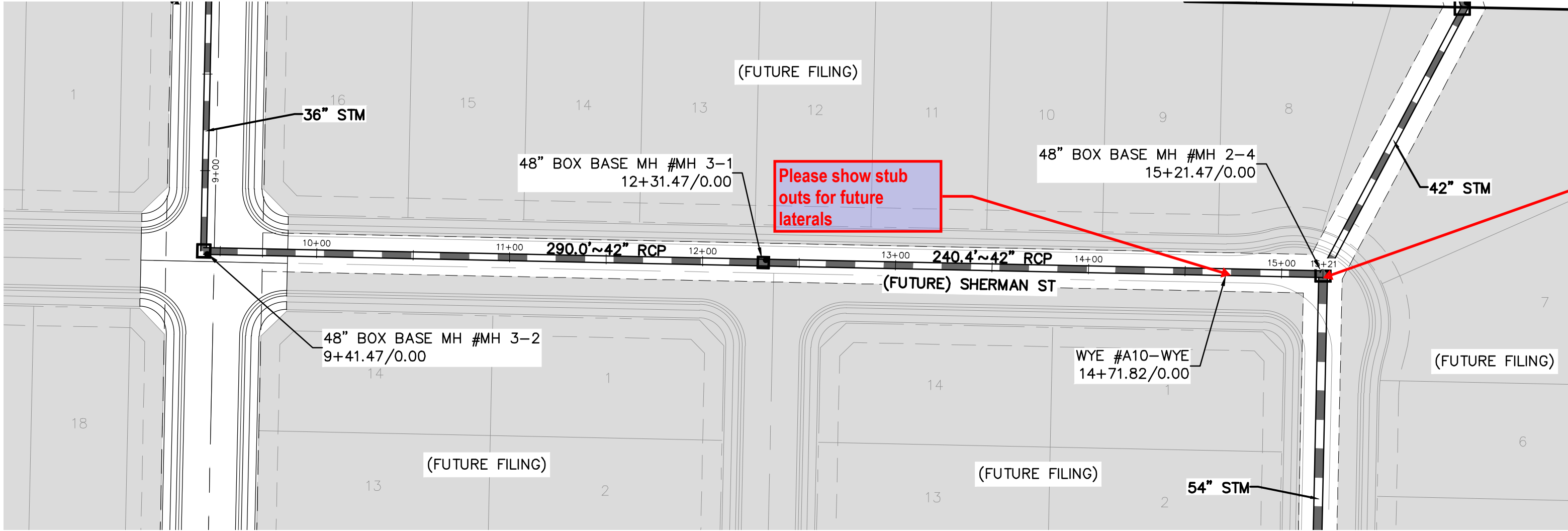
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303.801.7333	STORM SEWER PLAN & PROFILES RUN 3-1	1st SUBMITTAL TO JURISDICTION 4/7/2025 - KMB 2nd SUBMITTAL TO JURISDICTION 5/12/2025 - KMB
MICHAEL PRYOR		REVISIONS
		DR. TN CH. KB P.M. JF
		JOB 24007256
		SHEET NO. 70

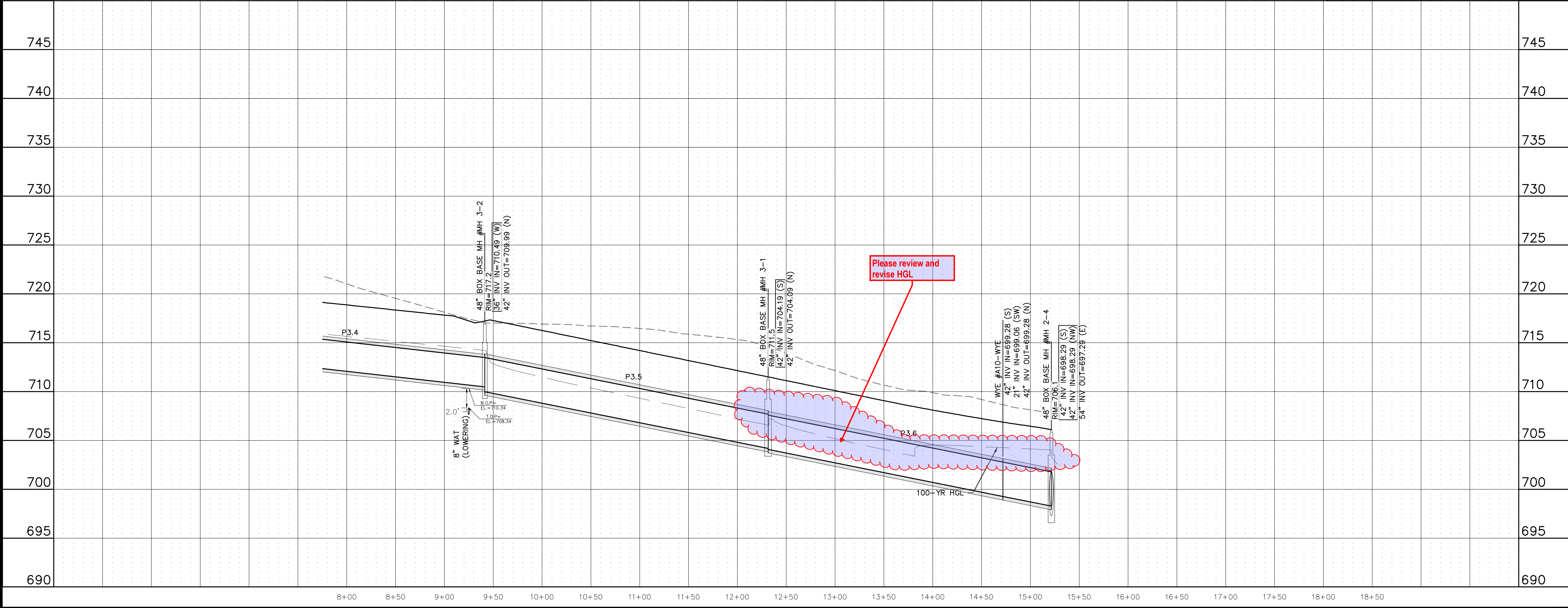


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RUN 3-2

Provide flow table for Run 3-2



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REVISIONS	
DR. TN CH. KB P.M. JF	
JOB 24007256	
SHEET NO. 71	

CAD FILE: 24007256-PH1-STEM-P&P-04-1.DWG



KEYMAP

1"=750'



50 0 50

(IN FEET)

1 inch = 50 ft. (Horz)
1 inch = 5 ft. (Vert)

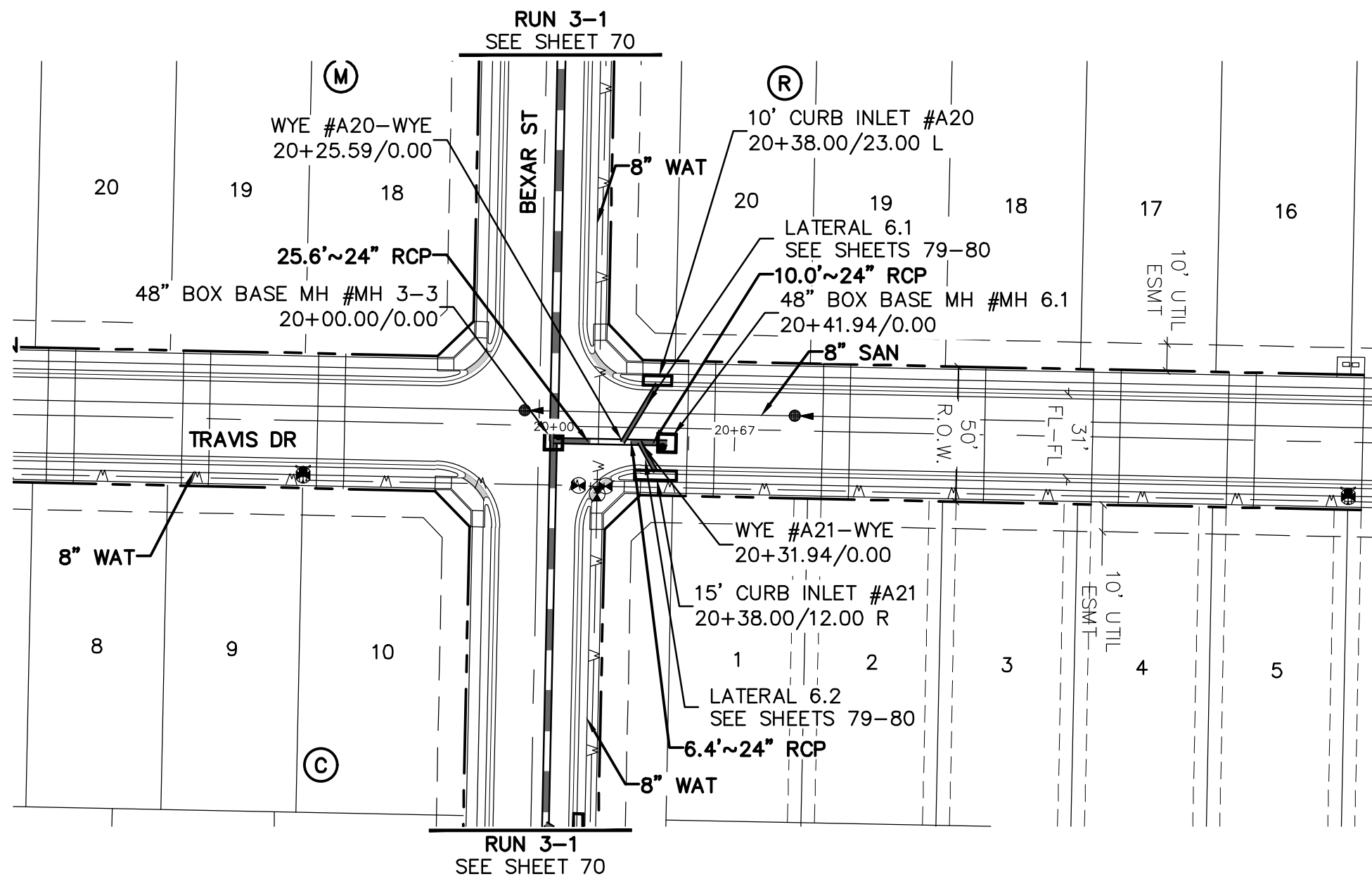


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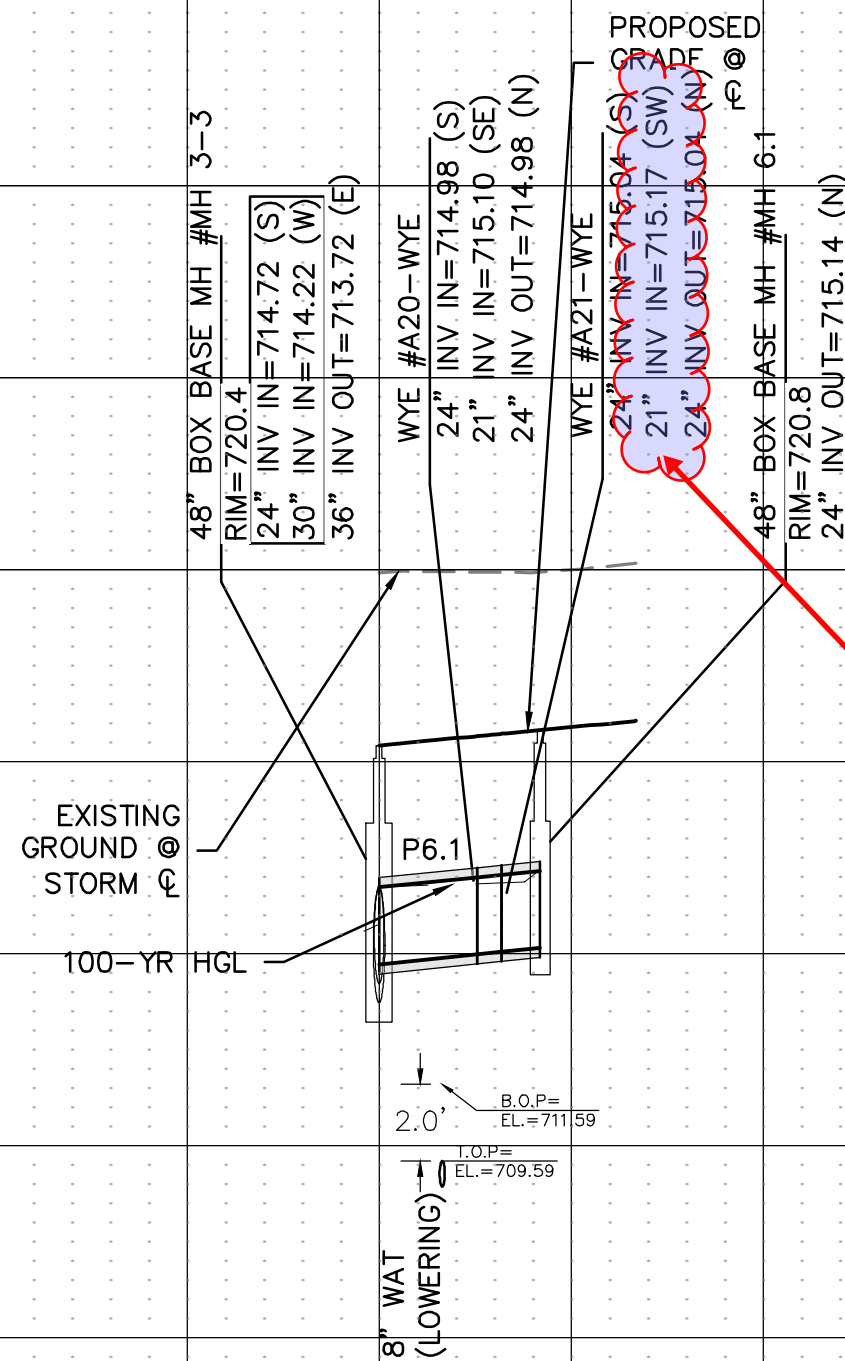
KALTER CAPITAL	9788 SOUTH JOHNSON WAY LITTLETON, COLORADO 80127	303.801.7333	MICHAEL PRYOR
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CLIENT		KALTER CAPITAL			
DATE		4/7/2025			
		LOIS ROAD ESTATES – FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS			
		STORM SEWER PLAN & PROFILES RUN 5			
A	1st SUBMITTAL TO JURISDICTION 4/2/2025 – EME				
B	2nd SUBMITTAL TO JURISDICTION 5/17/2025 – EME				
	REVISIONS				
DR.	TN	CH.	KB		
P.M., JF					
JOB		24007256			
SHEET NO.					
73					

K:\24007256\STORM PLAN SET\CONSTRUCTION\WASH - L1\STORM PLAN\24007256 - PH1 - STORM PLAN.dwg 3/13/2025 2:38 PM TOSH KESON



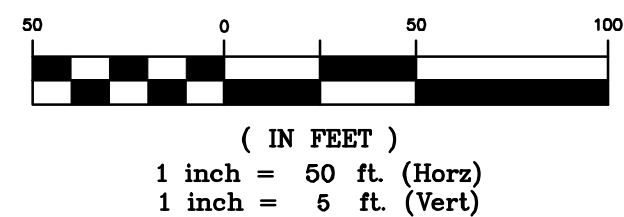
RUN 6



P6.1	Q _{cap}	41.05	cfs	IN	717.62
	Q ₂₀₂	24.44	cfs		
	V	4.98	fps	OUT	717.47
	S _i	0.004	ft/ft		



KEYMAP
1"=750'



BENCHMARK:

AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL ZONE, NAVD 88.

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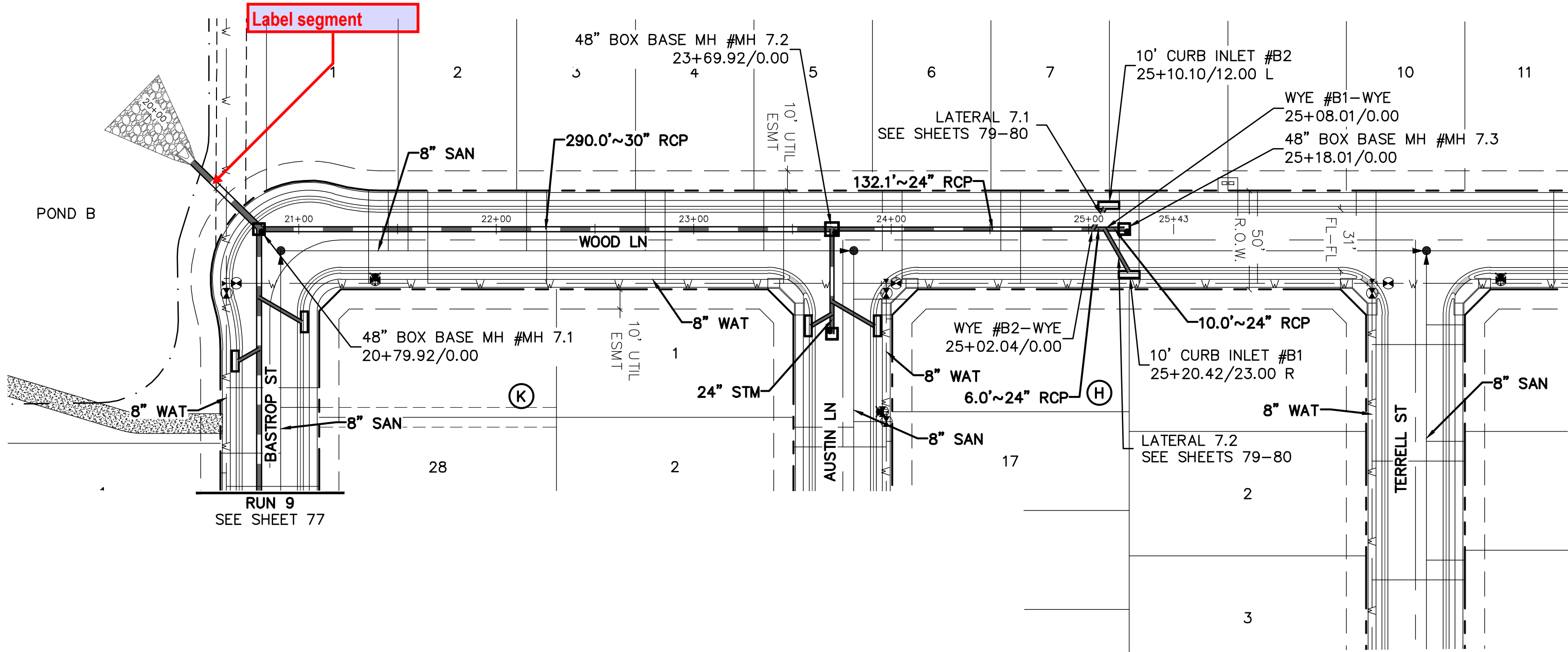
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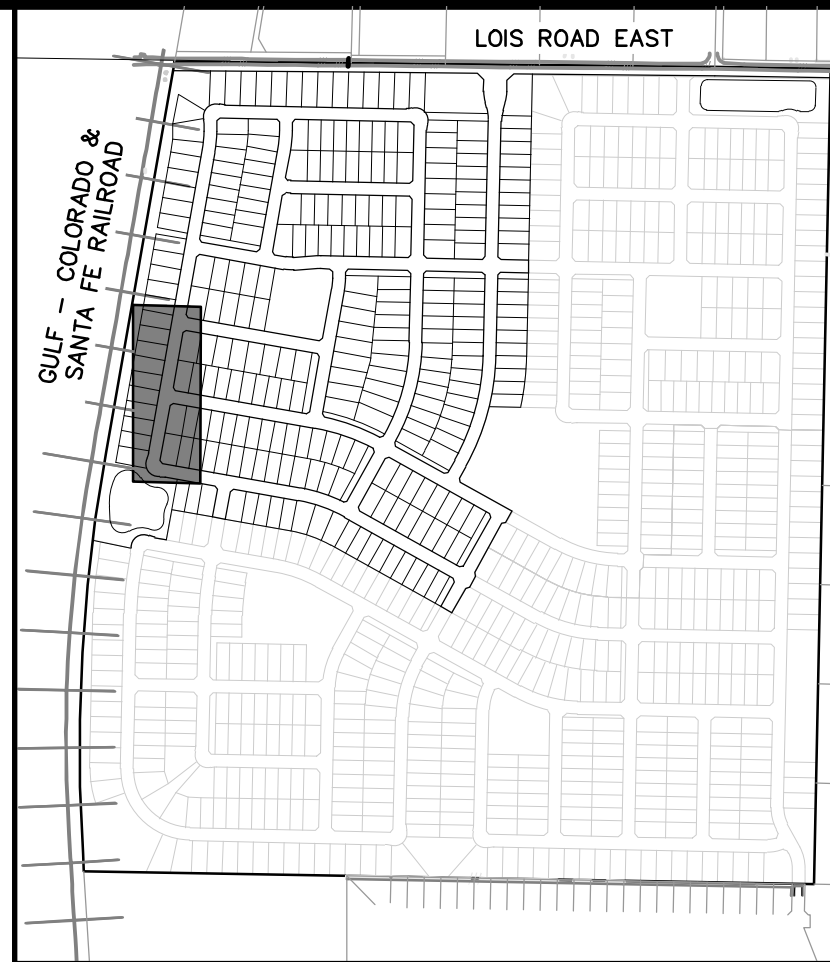
KALTER CAPITAL	KALTER CAPITAL
9788 SOUTH JOHNSON WAY LITTLETON, COLORADO 80127	LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS
303.801.7333	STORM SEWER PLAN & PROFILES RUN 6
MICHAEL PRYOR	

DATE	4/7/2025
1st SUBMITTAL TO JURISDICTION	4/7/2025 - KMB
2nd SUBMITTAL TO JURISDICTION	5/12/2025 - KMB
REVISIONS	
DR. TN	CH. KB
P.M. JF	
JOB	24007256
SHEET NO.	74

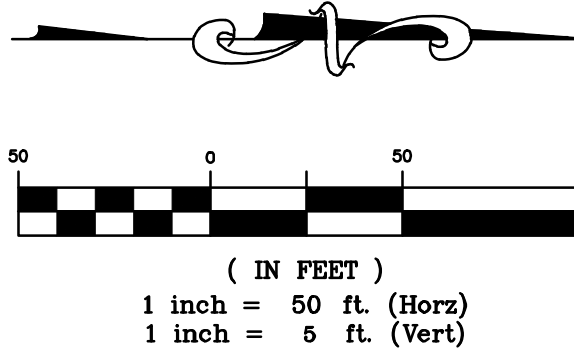
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RUN 7



KEYMAP
1"=750'

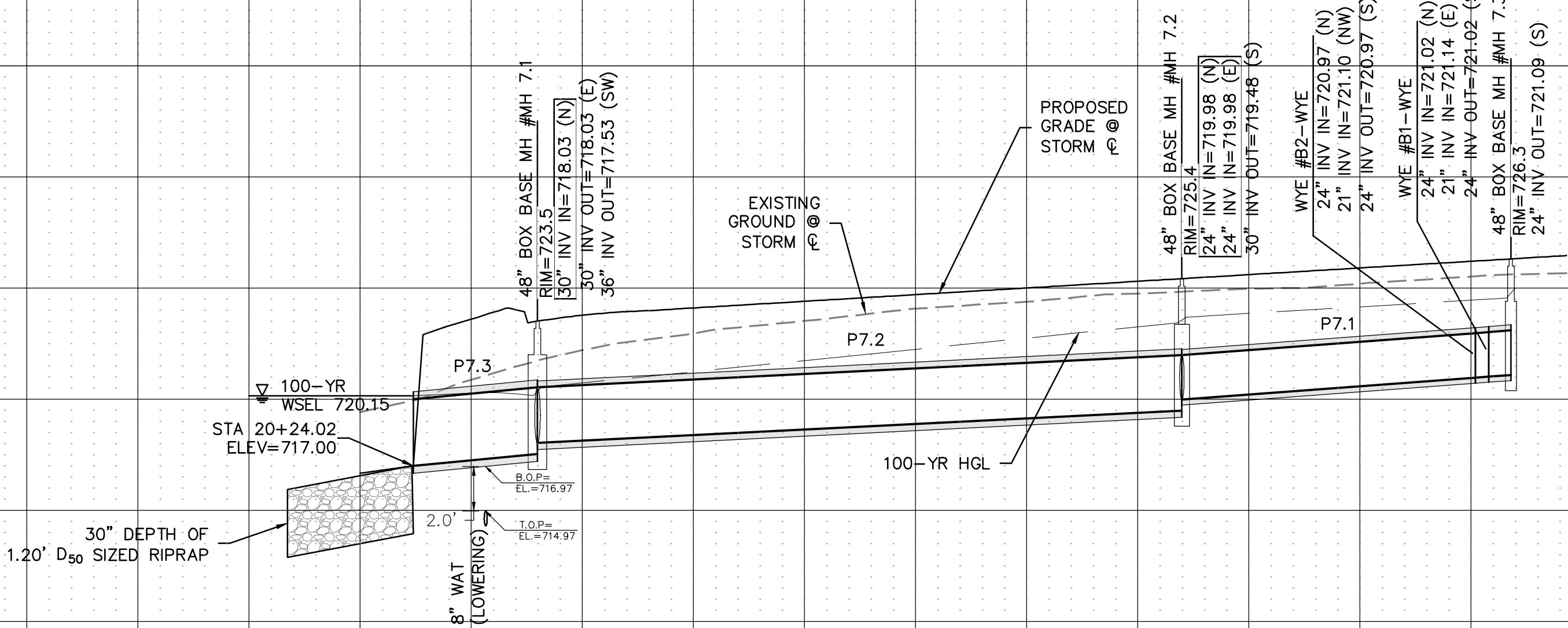


BENCHMARK:

AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL ZONE, NAVD 88.

P7.1	Q _{Cap}	19.58 cfs	IN	724.54
	Q ₀₂	17.17 cfs		
	V	5.47 fps		
	S ₁	0.006 ft/ft		
P7.2	Q _{Cap}	29 cfs	IN	723.43
	Q ₀₂	40.94 cfs		
	V	8.34 fps		
	S ₁	0.01 ft/ft		
P7.3	Q _{Cap}	120.34 cfs	IN	720.15
	Q ₀₂	86.34 cfs		
	V	11.03 fps		
	S ₁	0.004 ft/ft		



811
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LITTLETON, COLORADO 80127
303.801.7333
MICHAEL PRYOR

KALTER CAPITAL
LOIS ROAD ESTATES - FILING NOS. 1 & 2
CITY OF SANGER, COUNTY OF DENTON,
STATE OF TEXAS
STORM SEWER PLAN & PROFILES
RUN 7

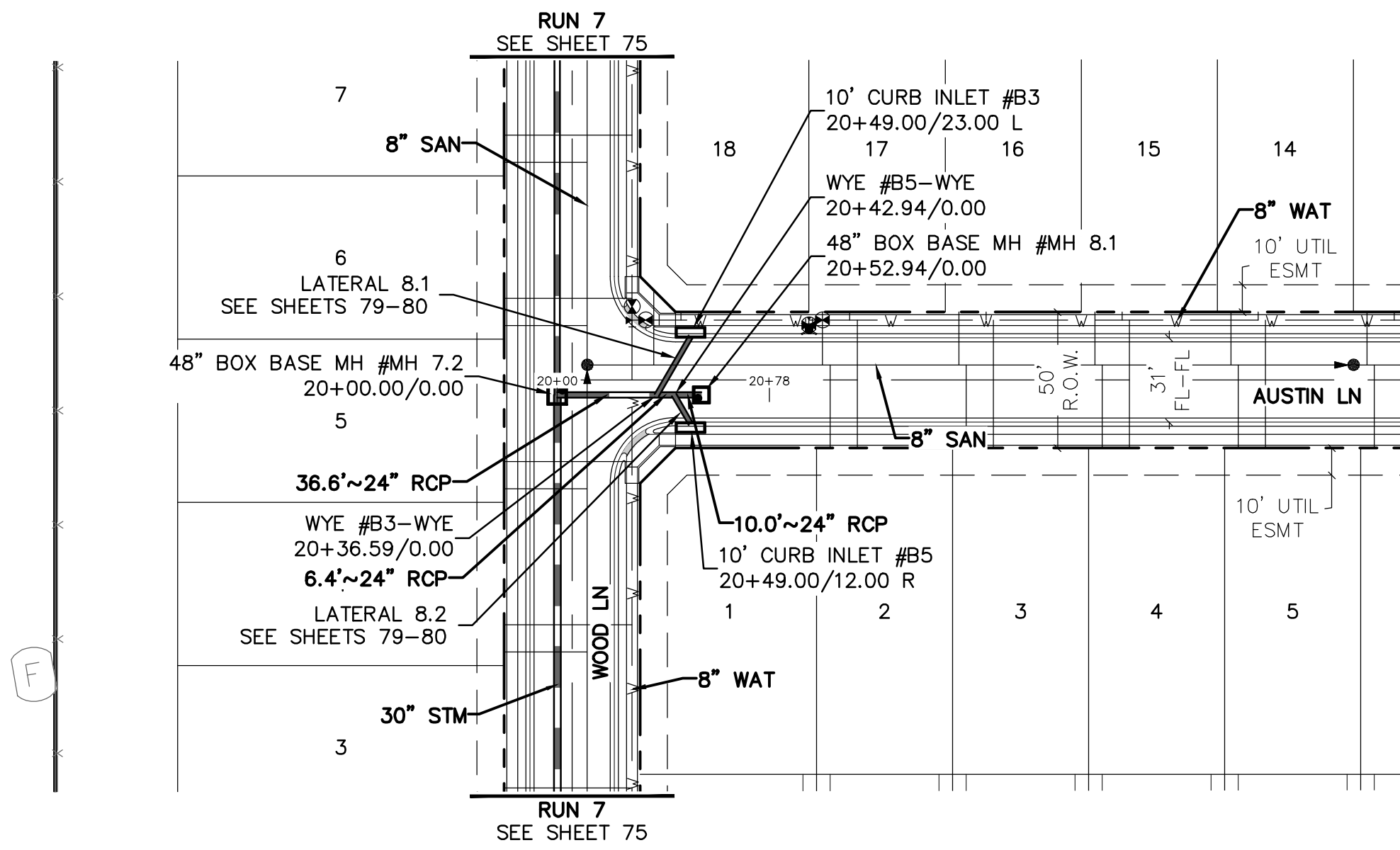
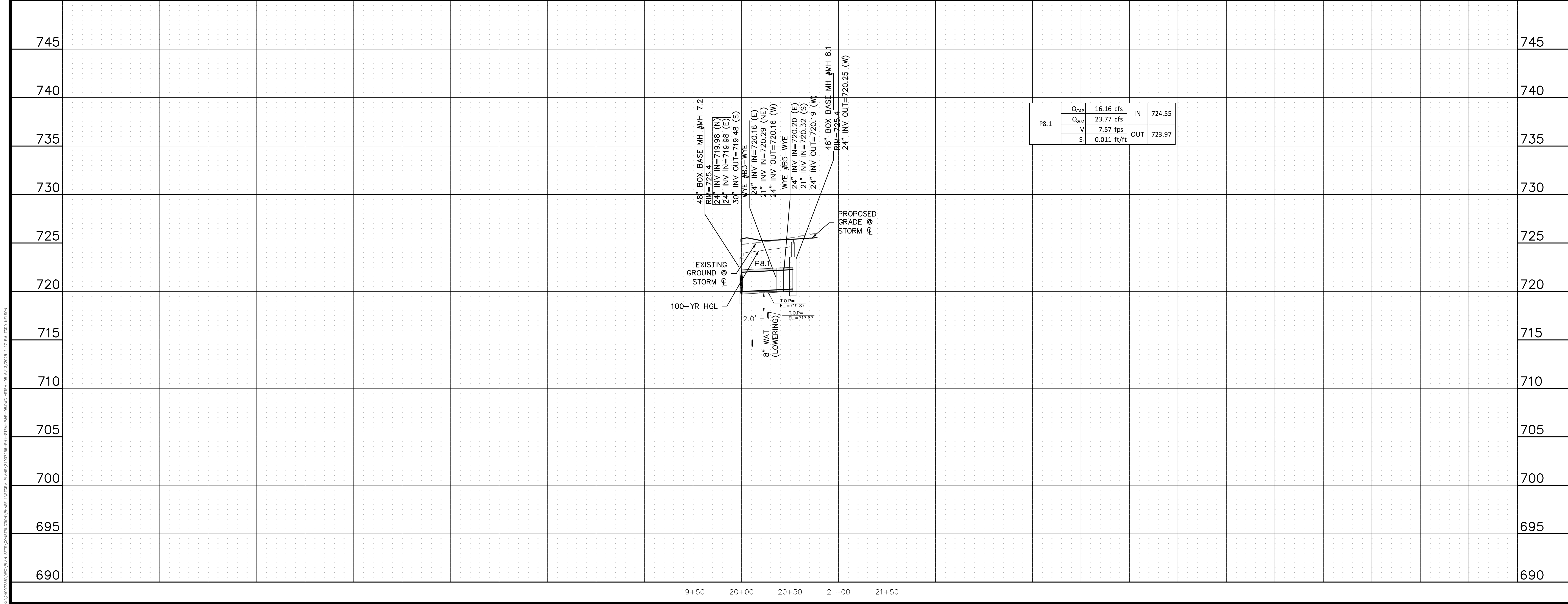
CLIENT
DATE 4/7/2025

REVISIONS
A 1st SUBMITTAL TO JURISDICTION 4/7/2025 - RMB
B 2nd SUBMITTAL TO JURISDICTION 5/12/2025 - RMB

REVISIONS
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DR. TN **CH.** KB
P.M. JF
JOB 24007256
SHEET NO. 75

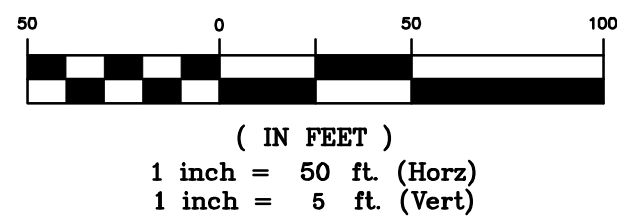
K:\CADD\2025\STORM PLAN SET\CONSTRUCTION\WASH - LUTON PLANS\24007256-PRI1-STM-7-P&P-08.DWG 08/13/2025 2:27 PM TDOB NELSON



RUN 8



KEYMAP
1"=750'



BENCHMARK:

AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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DATE	4/7/2025	STORM SEWER PLAN & PROFILES RUN 8
1st SUBMITTAL TO JURISDICTION	4/7/2025 - KMB	
2nd SUBMITTAL TO JURISDICTION	5/12/2025 - KMB	
REVISIONS		
DR.	TN	CH. KB
P.M.	JF	
JOB	24007256	
SHEET NO.	76	

CAD FILE: 24007256-PRI1-STM-7-P&P-08.DWG



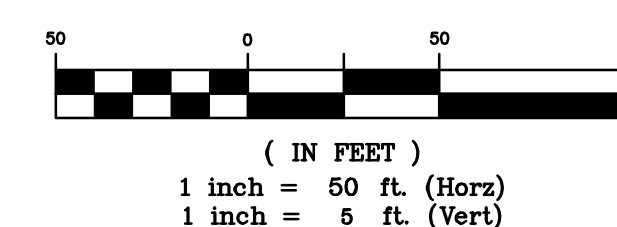
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KEYMAP
1"=750'

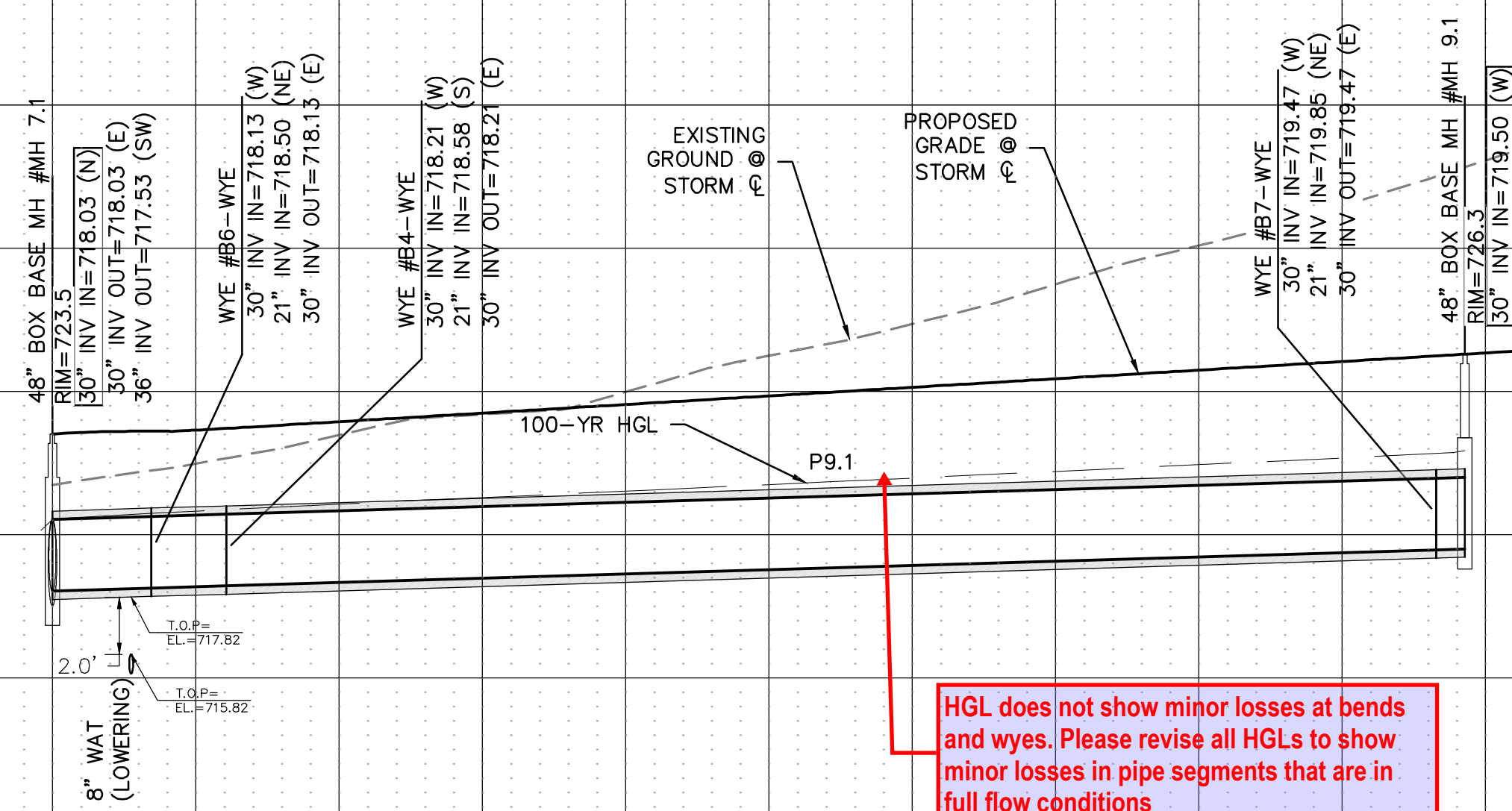


BENCHMARK:

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NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL
ZONE. NAVD 88.

RUN 9



P9.1	Q_{CAP}	36.42	cfs	IN	722.86
	Q_{100}	45.4	cfs		
	V	6.42	fps	OUT	720.55
	S_f	0.004	ft/ft		

[illegible]

KALTER CAPITAL

9788 SOUTH JOHNSON WAY

303.801.7333

KALPER CAPITAL

S ROAD ESTATES - FILING NOS. 1 & 2
CITY OF SANGER, COUNTY OF DENTON,
STATE OF TEXAS

STORM SEWER PLAN & PROFILES
RIN 9

PLAN
RIN 9

CLIENT

DATE 4/7/2025

A	1ST SUBMITTAL TO JURISDICTION 4/7/2025 - K
B	2ND SUBMITTAL TO JURISDICTION 5/12/2025 - K

REVISIONS

DR.	TN	CH.	KB
P.M. JF			

JOB 24007256

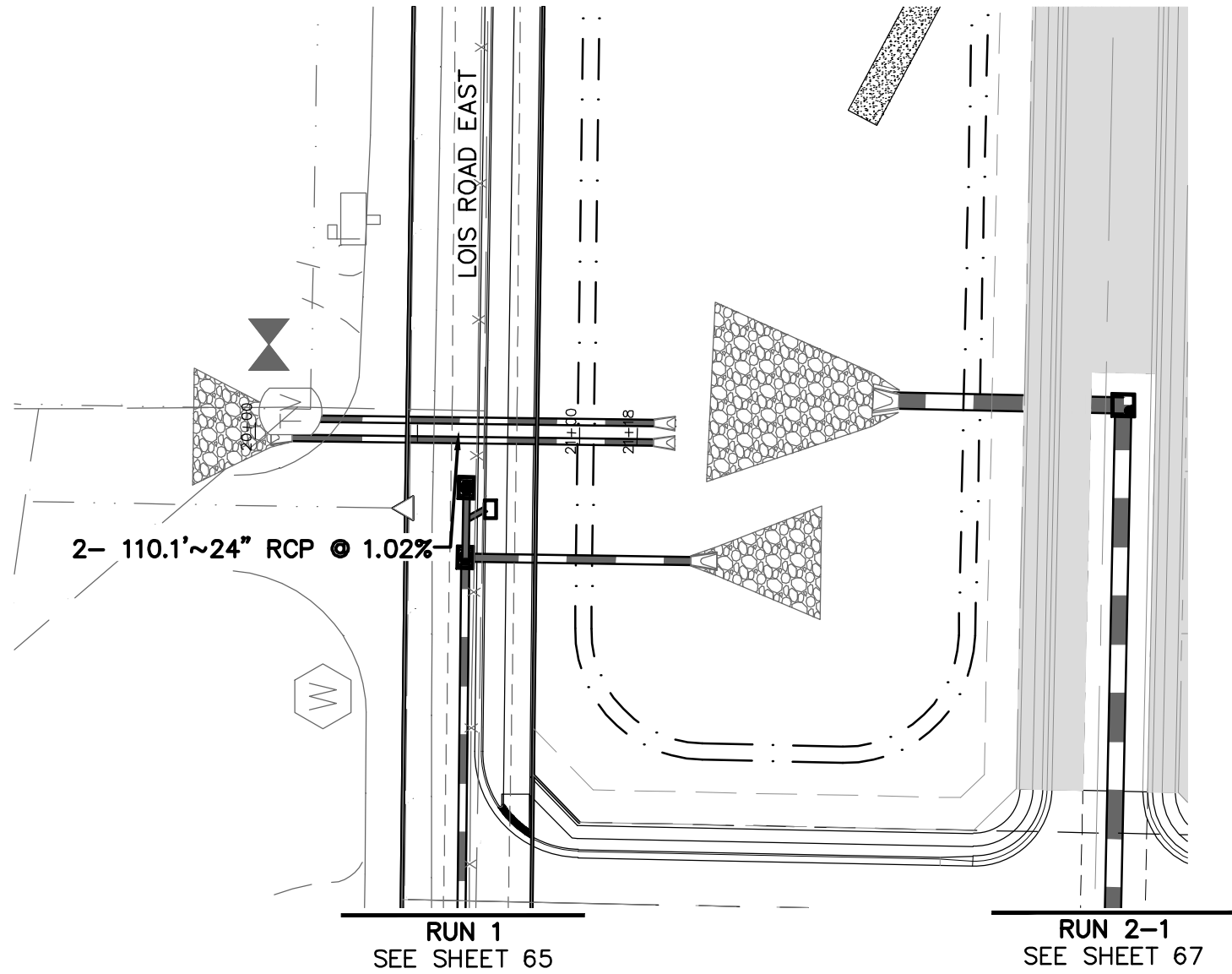
SHEET NO

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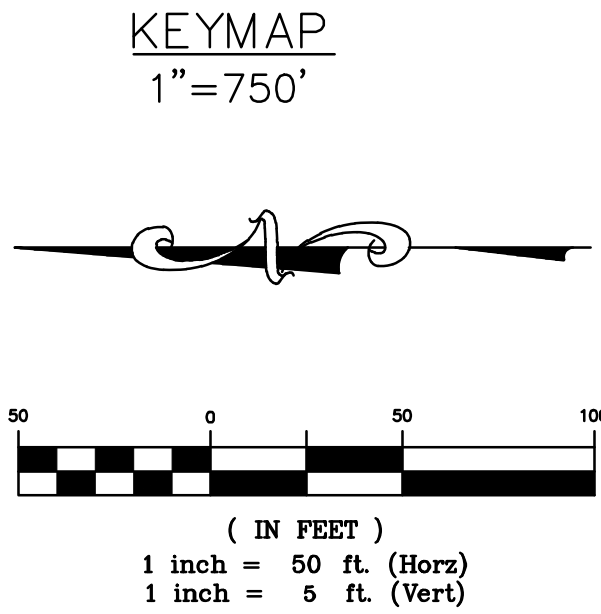
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CAN FILE: 24007256-PH1-STRM-P&P-09 NWG

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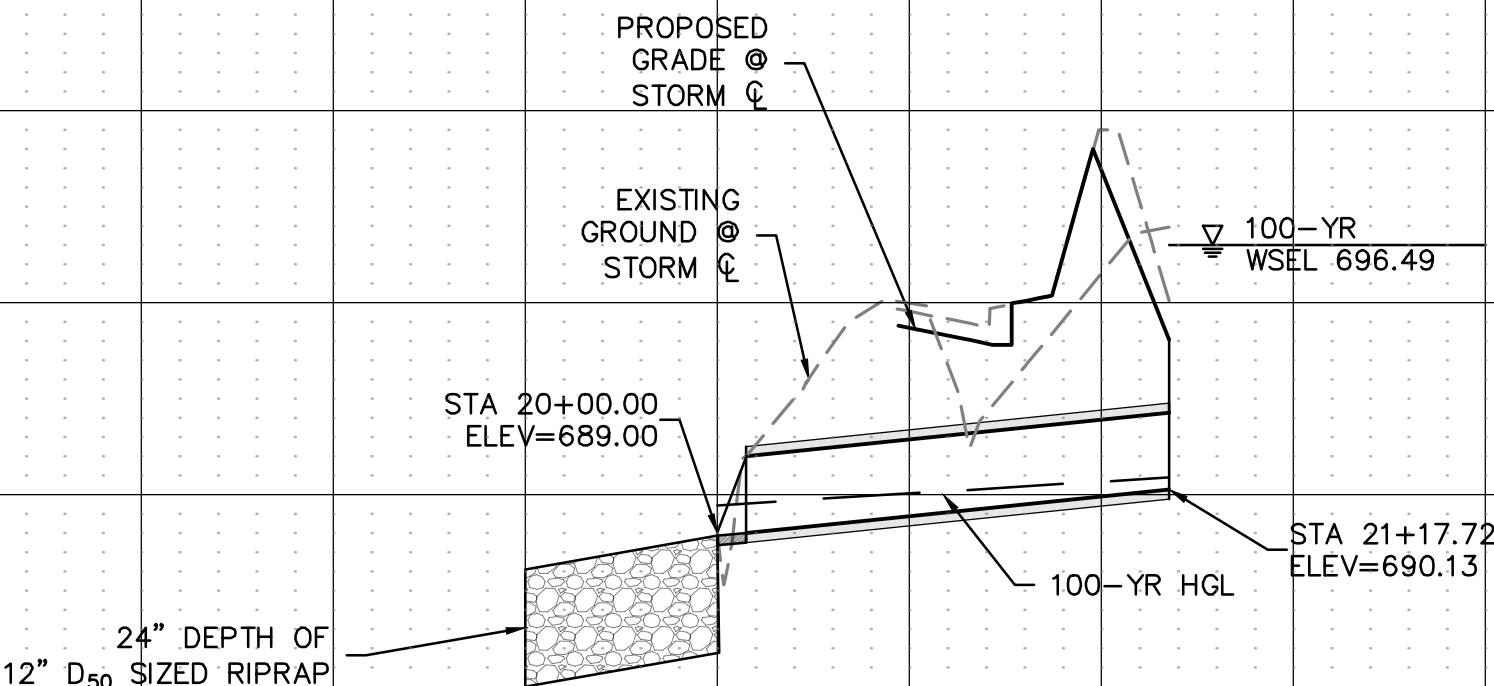
POND A OUTFALL



BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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POND A OUTFALL PIPE	Q _{CDP}	22.87	cfs	IN	694.11
	Q ₁₀₀	37.36	cfs		
	V	11.89	fps	OUT	690.86
	S _f	0.027	ft/ft		



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CLIENT

KALTER CAPITAL
LOIS ROAD ESTATES – FILING NOS. 1 & 2
CITY OF SANGER, COUNTY OF DENTON,
STATE OF TEXAS

STORM SEWER PLAN & PROFILES
POND A OUTFALL

DATE 4/7/2025

A	1st SUBMITTAL TO JURISDICTION	4/7/2025	- KMB
B	2nd SUBMITTAL TO JURISDICTION	5/12/2025	- KMB

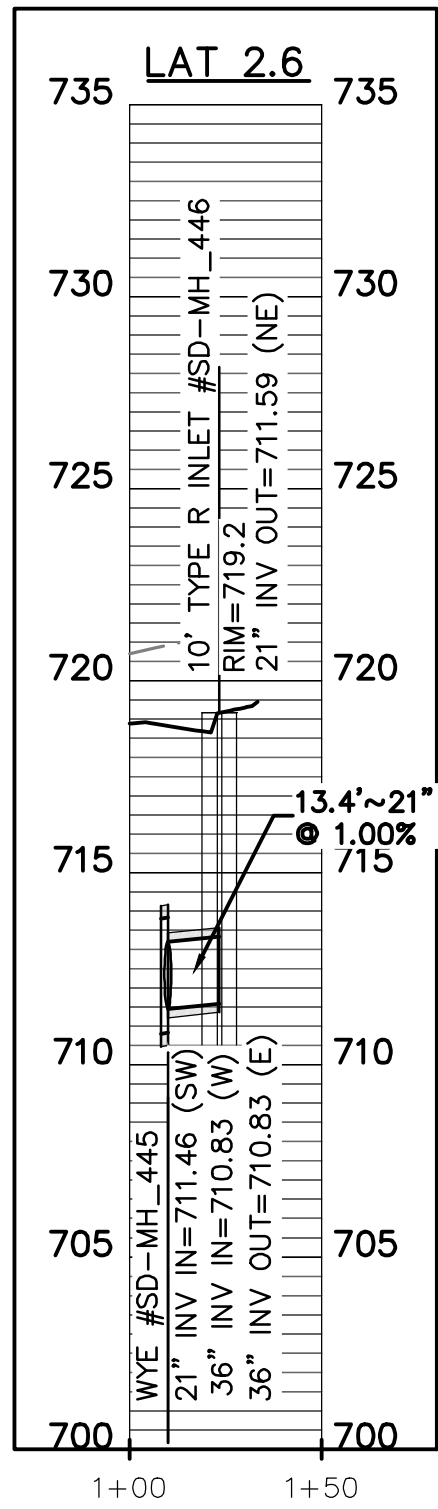
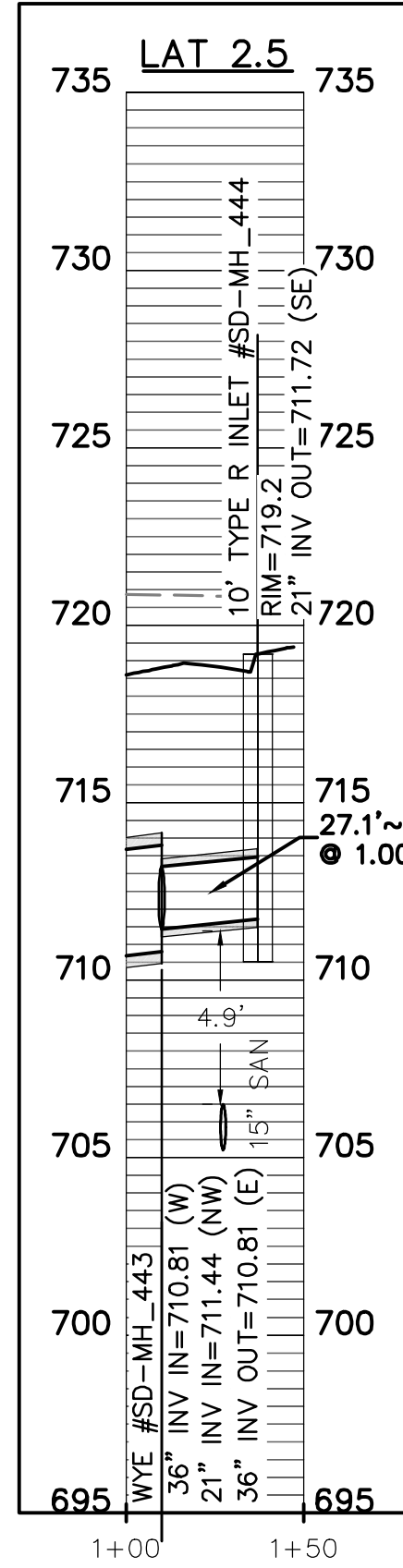
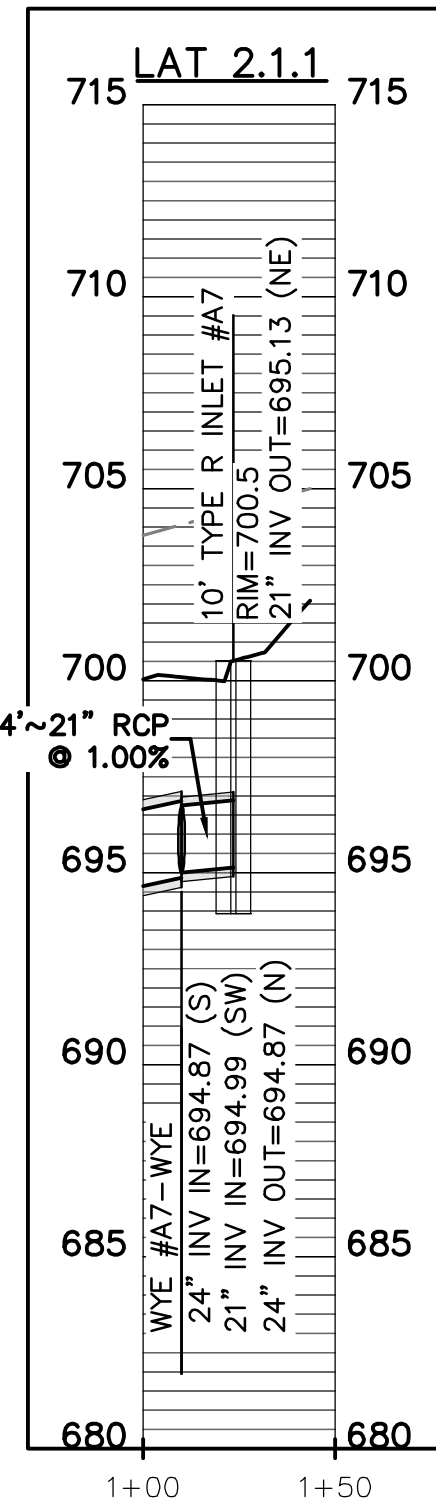
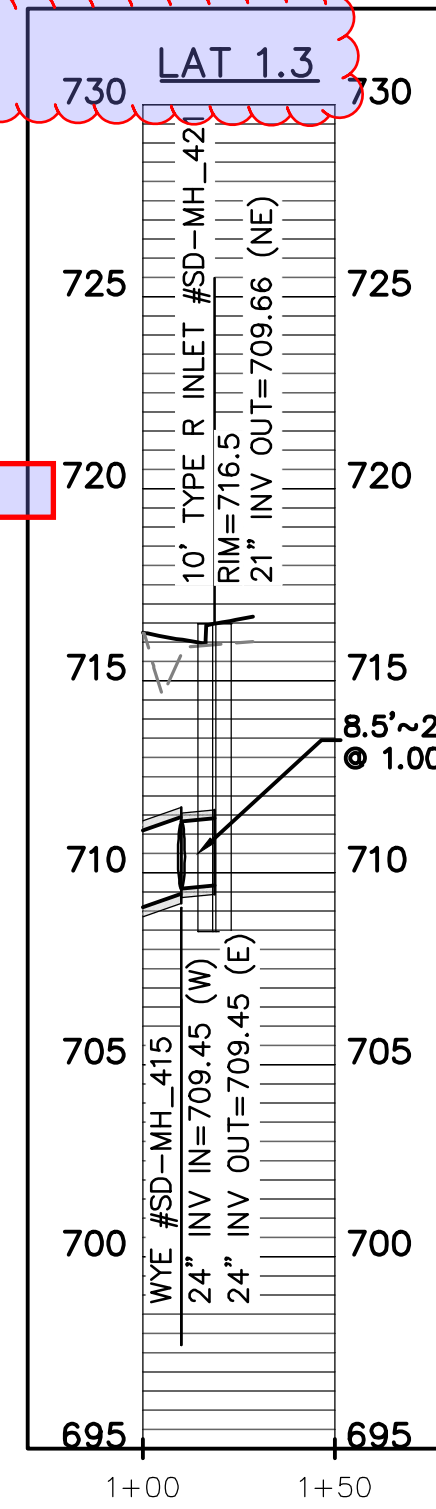
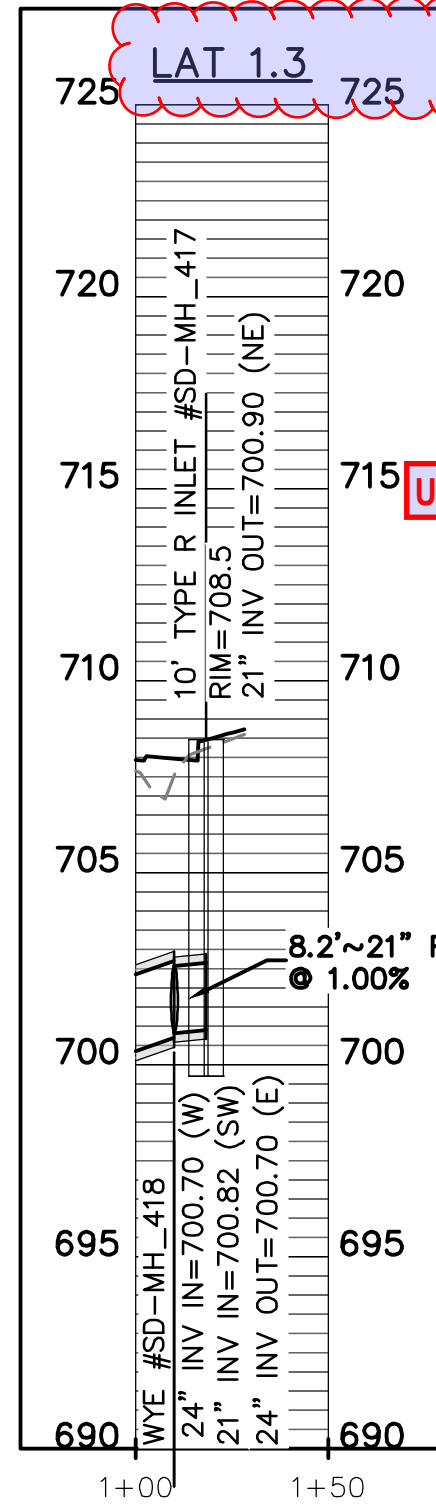
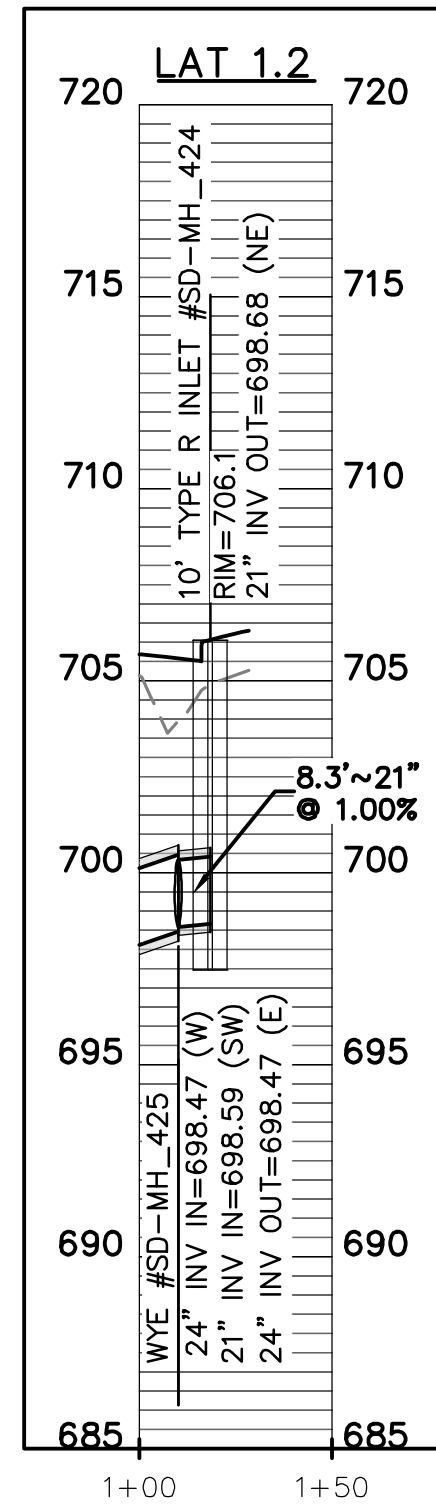
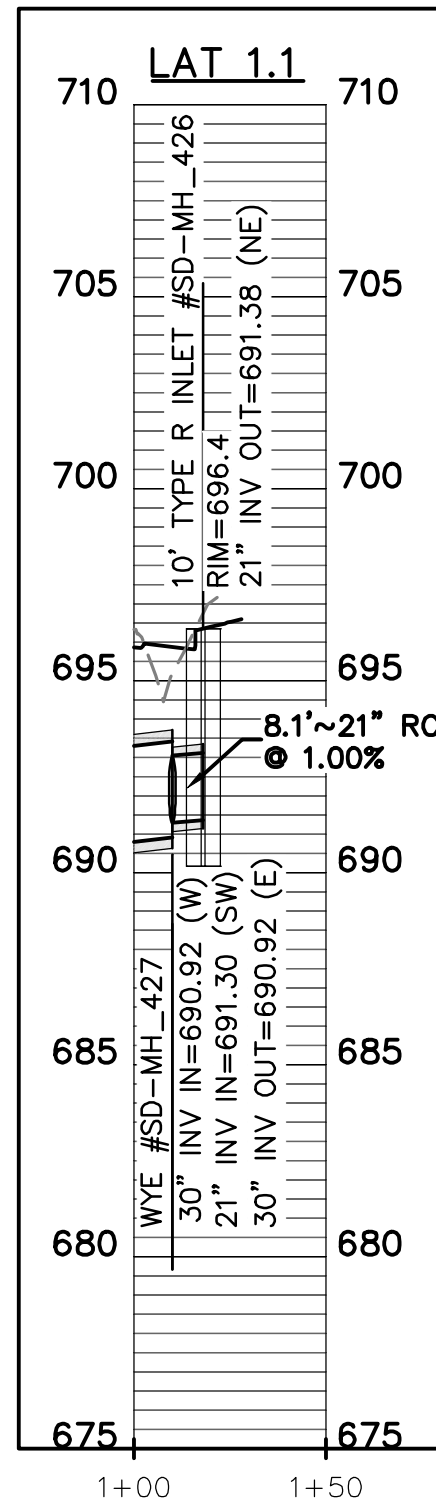
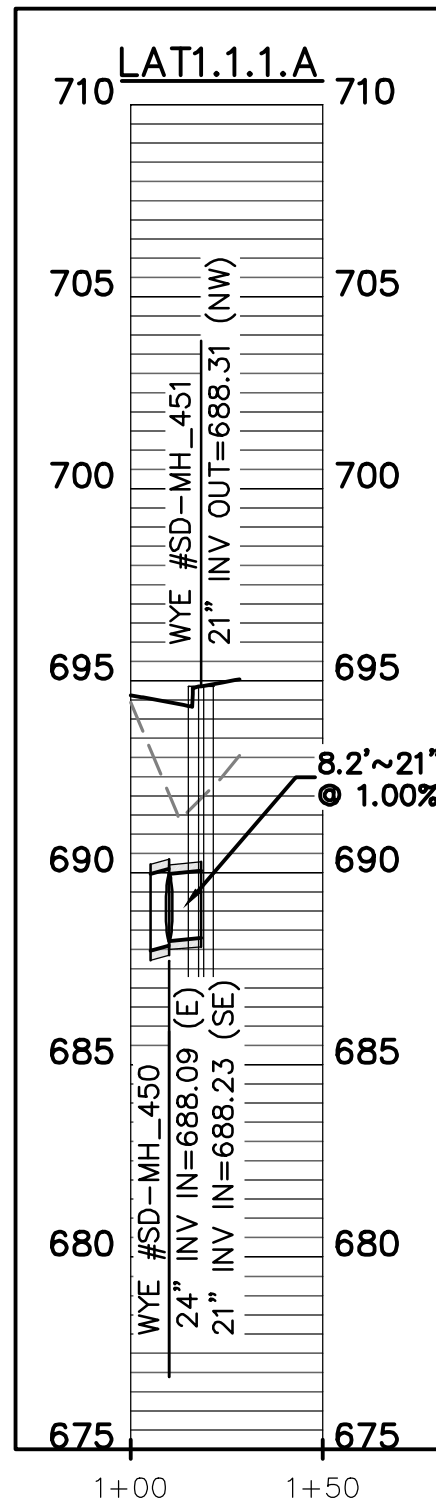
REVISIONS

DR.	TN	CH.	KB
P.M.	JF		

JOB 24007256

SHEET NO. 78

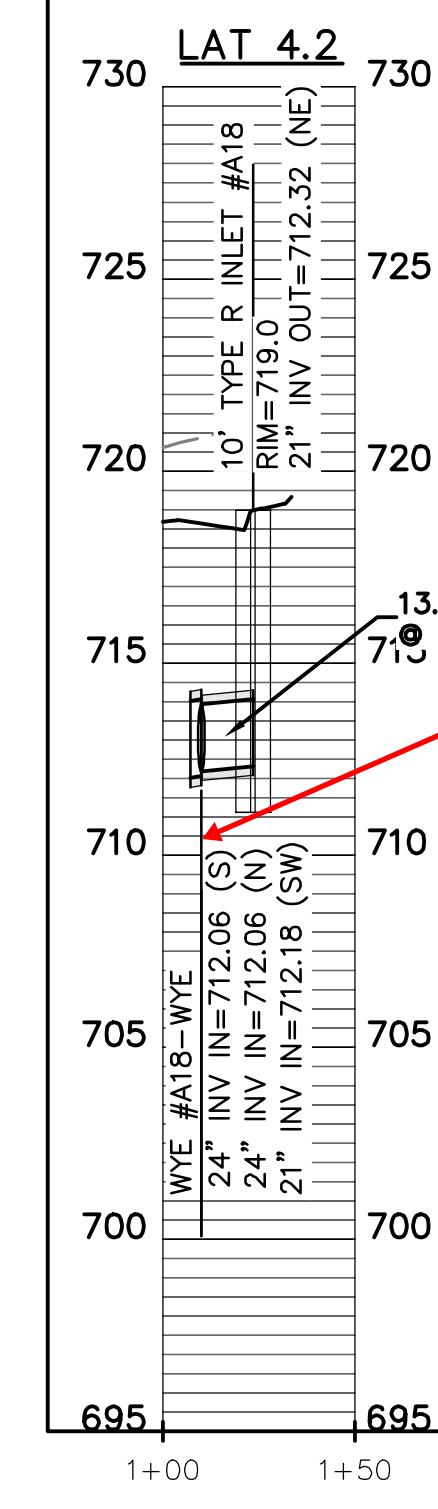
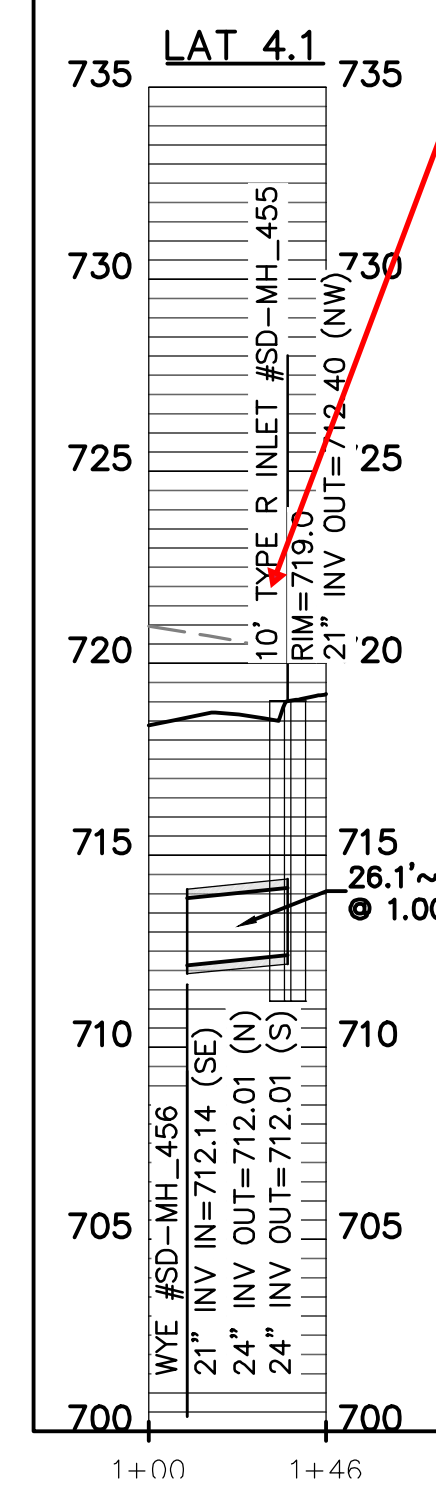
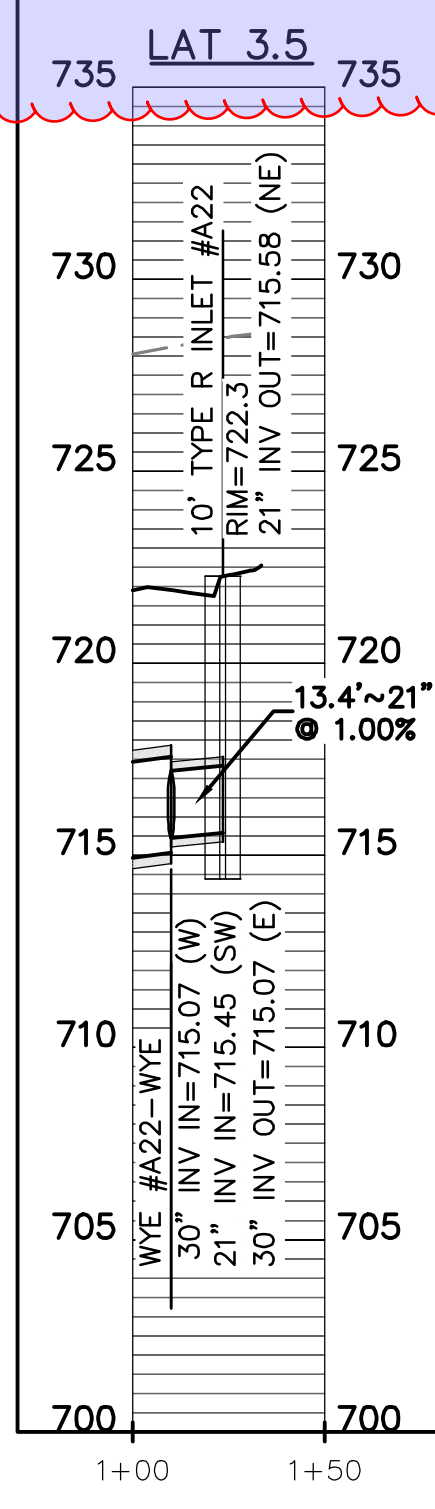
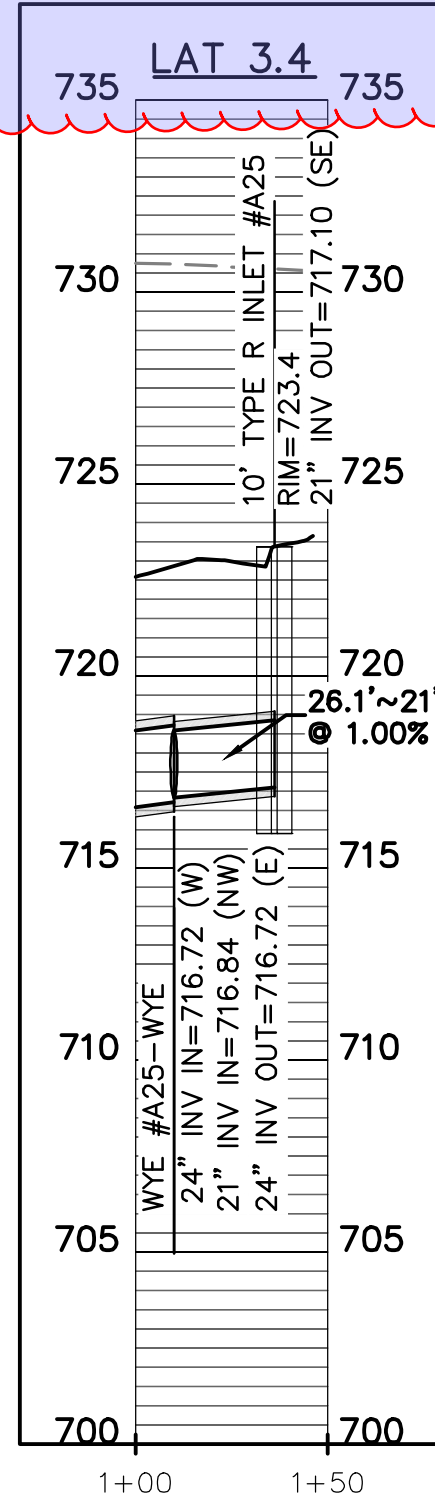
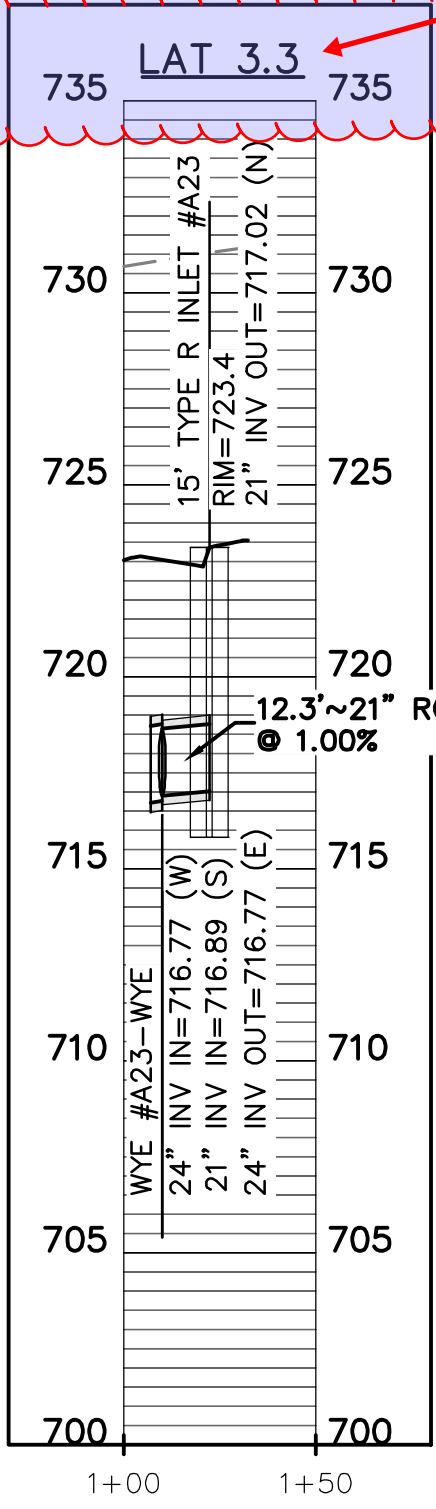
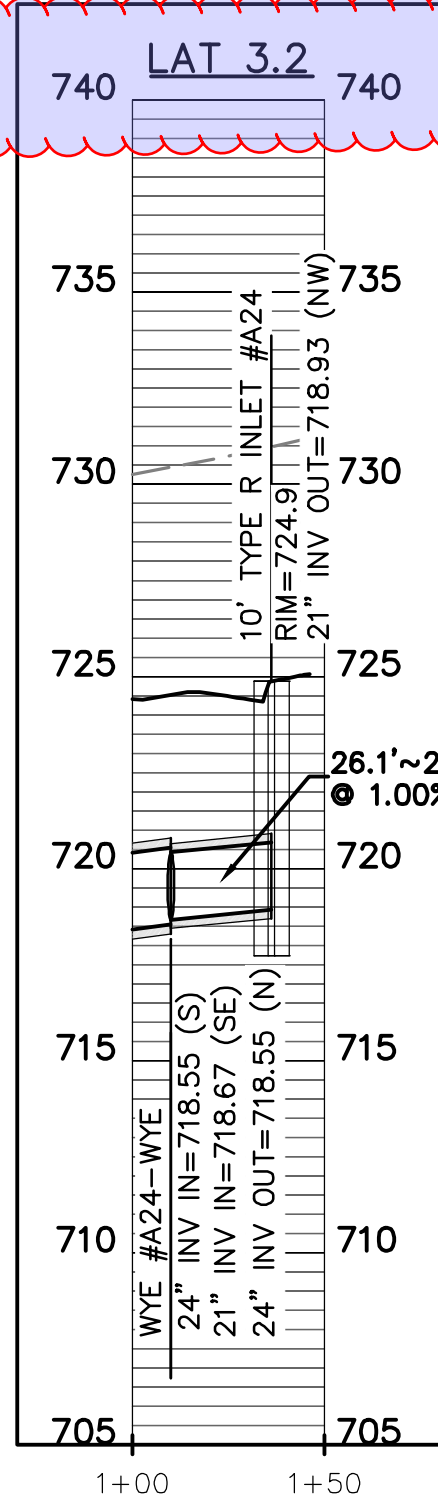
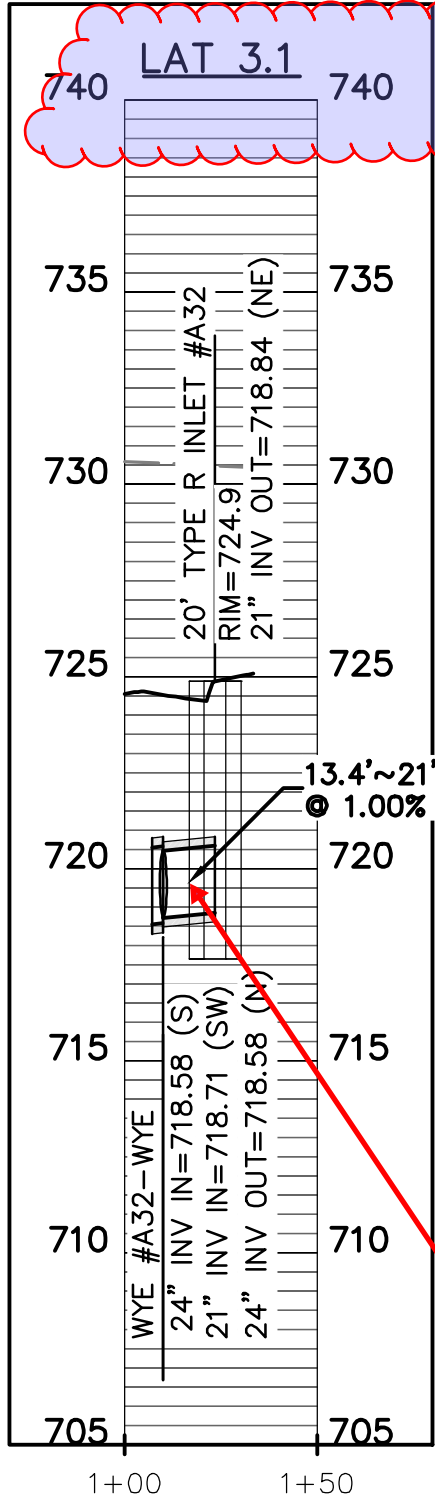
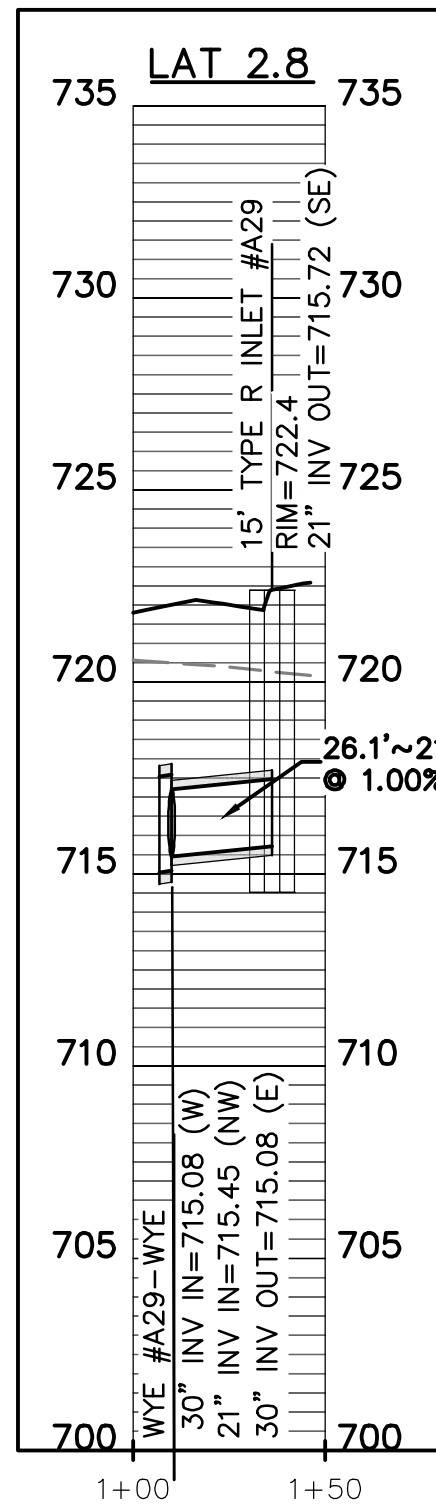
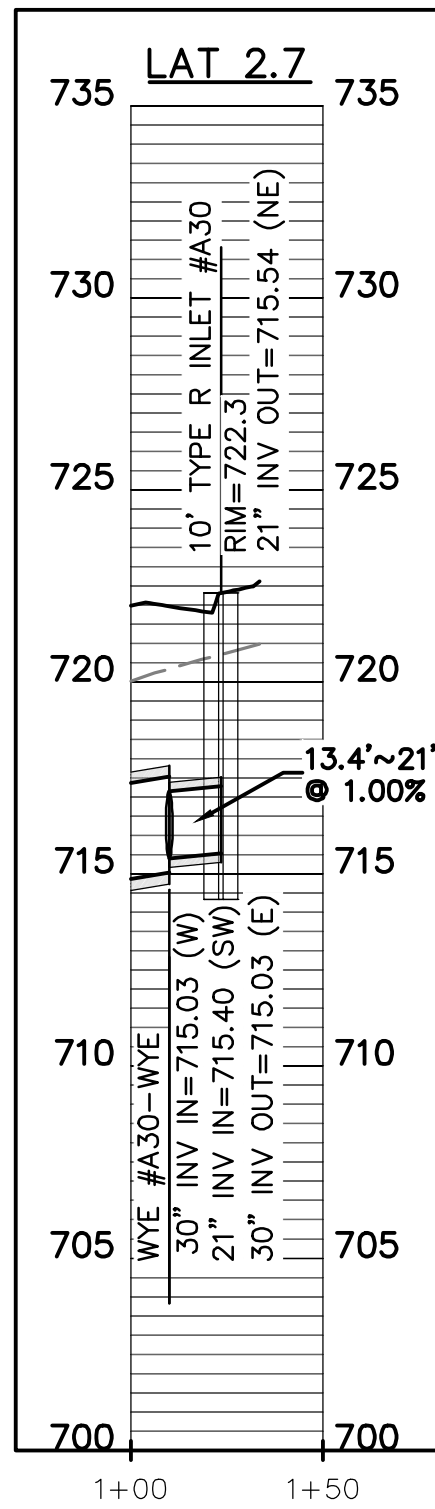
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1. Provide HGL's for all laterals to confirm there is no surcharge at inlets
2. Update laterals accordingly per § 10.106(d)(5)(C)
3. Provide flow boxes for all laterals

Please confirm these are shown and labeled in plan and profile sheets

inlet shown as 20ft in plans. Please review and revise



Update lateral to 24"

show utility crossings for all laterals

BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.
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9788 SOUTH JOHNSON WAY LITTLETON, COLORADO 80127	303.801.7333 MICHAEL PRYOR	STORM SEWER PLAN & PROFILES LATERALS 1
DATE 4/7/2025	REVISIONS	
A 1st SUBMITTAL TO JURISDICTION 4/7/2025 - KMB		
B 2nd SUBMITTAL TO JURISDICTION 5/12/2025 - KMB		
DR. TN	CH. KB	
P.M. JF		
JOB 24007256		
SHEET NO.		
79		

CAD FILE: 24007256-PH1-STEM-LAT-01.DWG

Pond Report

Hydraflo Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2024 Saturday, 03 / 22 / 2025

Pond No. 1 - Pond A

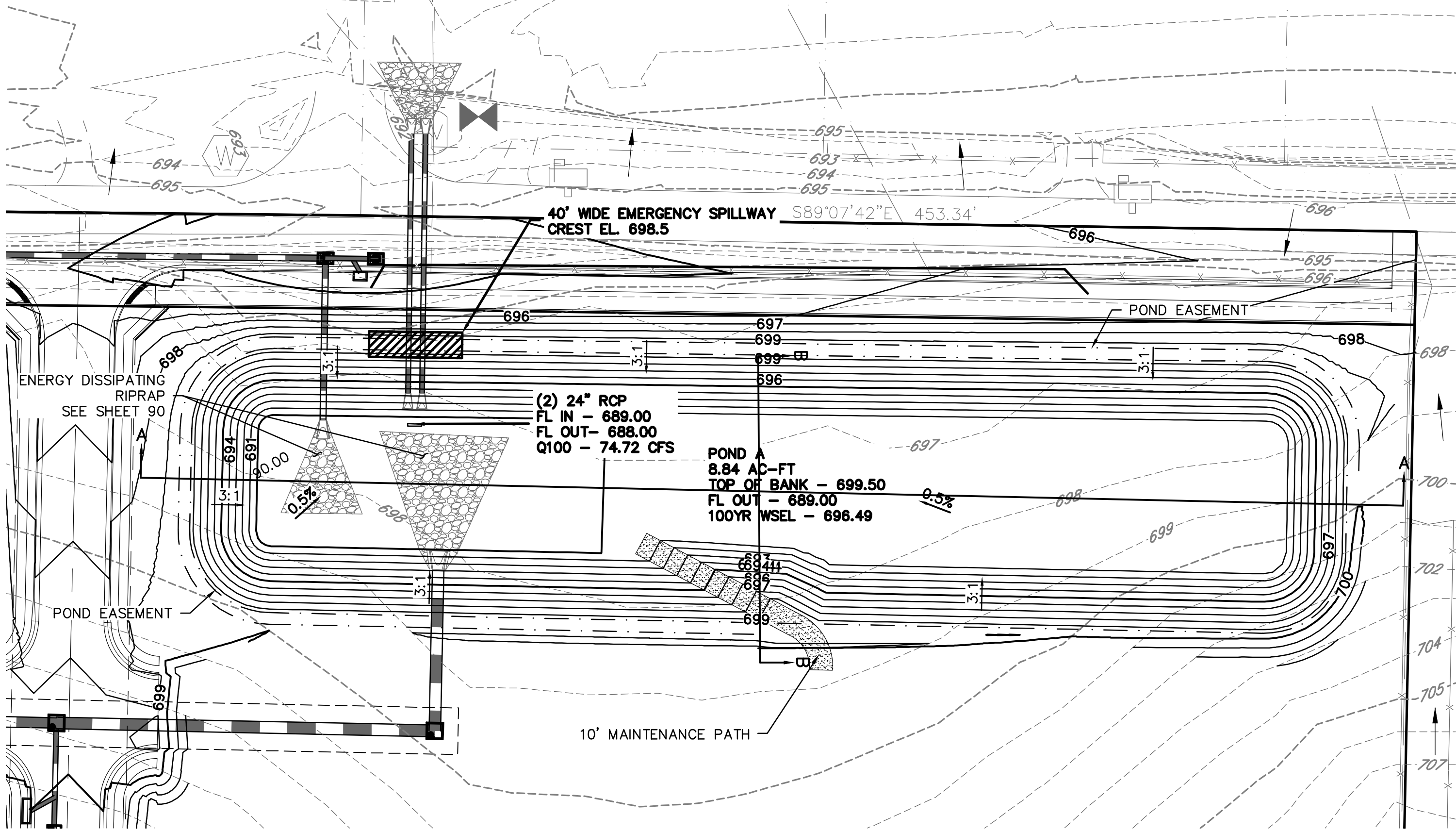
Pond Data

Contours - User-defined contour areas. Average end area method used for volume calculation. Beginning Elevation = 689.00 ft

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	689.00	06	0	0
1.00	690.00	15,149	7,578	7,578
2.00	691.00	28,384	21,772	29,349
3.00	692.00	31,429	29,912	59,261
4.00	693.00	34,521	32,975	92,236
5.00	694.00	37,669	36,085	128,331
6.00	695.00	40,874	39,272	167,602
7.00	696.00	44,135	42,506	210,107
8.00	697.00	47,453	45,794	255,901
9.00	698.00	50,827	49,140	305,041
10.00	699.00	54,258	52,543	357,583
10.50	699.50	55,995	27,563	385,146

Culvert / Orifice Structures					Weir Structures				
	[A]	[B]	[C]	[PrfRsr]		[A]	[B]	[C]	[D]
Rise (in)	= 24.00	0.00	0.00	0.00	Crest Len (ft)	= 0.00	0.00	0.00	0.00
Span (in)	= 24.00	0.00	0.00	0.00	Crest El. (ft)	= 0.00	0.00	0.00	0.00
No. Barrels	= 2	1	0	0	Weir Coeff.	= 3.33	3.33	3.33	3.33
Invert El. (ft)	= 689.00	0.00	0.00	0.00	Weir Type	=			
Length (ft)	= 118.00	0.00	0.00	0.00	Multi-Stage	= No	No	No	No
Slope (%)	= 0.85	0.00	0.00	n/a					
N Value	= 0.13	0.13	0.13	n/a	Exfil. (in/hr)	= 0.000 (by Wet area)			
Orifice Coeff.	= 0.60	0.60	0.60	0.60	TW Elev. (ft)	= 0.00			
Multi-Stage	= n/a	No	No	No					

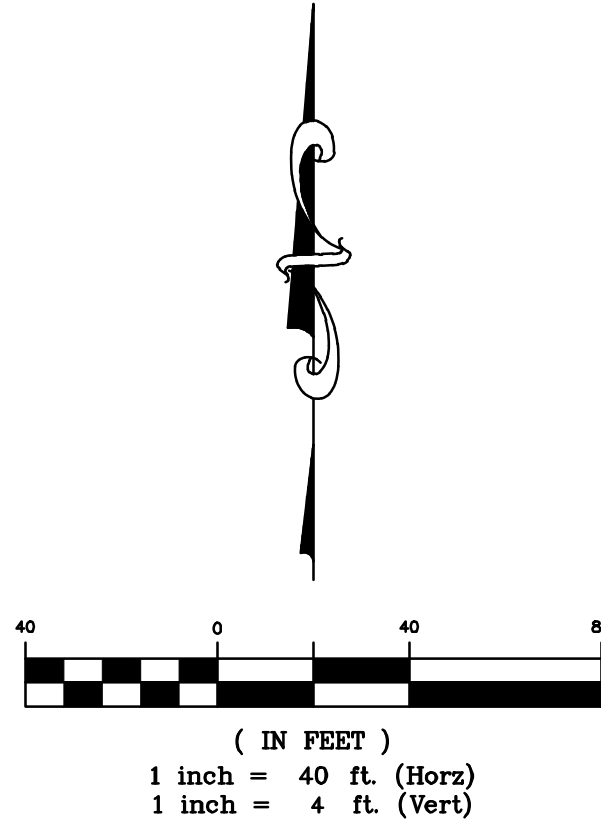
Note: Culvert/Orifice outflows are analyzed under inlet (ci) and outlet (co) control. Weir crests checked for orifice conditions (ci) and submergence (ci).



POND A



KEYMAP
1"=750'



Hydrograph Report

Hydraflo Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2024 Saturday, 03 / 22 / 2025

Hyd. No. 1

Ex Pond A

Hydrograph type	= Rational	Peak discharge	= 76.24 cfs
Storm frequency	= 100 yrs	Time to peak	= 0.25 hrs
Time interval	= 1 min	Hyd. volume	= 68,943 cuft
Drainage area	= 32.670 ac	Runoff coeff.	= 0.3
Intensity	= 7.805 in/hr	Tc by User	= 15.00 min
IDF Curve	= Sanger IDF.IDF	Asc/Rec limb fact	= 1/1

Hydrograph Report

Hydraflo Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2024 Saturday, 03 / 22 / 2025

Hyd. No. 2

Prop Pond A

Hydrograph type	= Mod. Rational	Peak discharge	= 110.24 cfs
Storm frequency	= 100 yrs	Time to peak	= 0.25 hrs
Time interval	= 1 min	Hyd. volume	= 68,943 cuft
Drainage area	= 65.700 ac	Runoff coeff.	= 0.55
Intensity	= 3.051 in/hr	Tc by User	= 15.00 min
IDF Curve	= Sanger IDF.IDF	Storm duration	= 5.24 Tc
Target Q	= 76.00 cfs	Est. Req'd Storage	= 302,414 cuft

Hydrograph Report

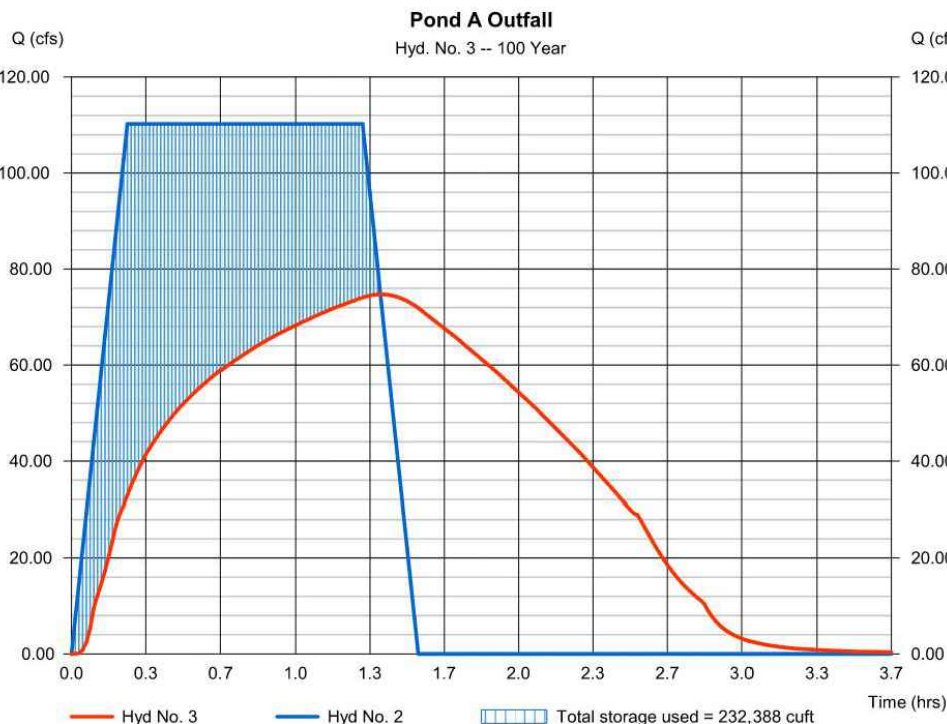
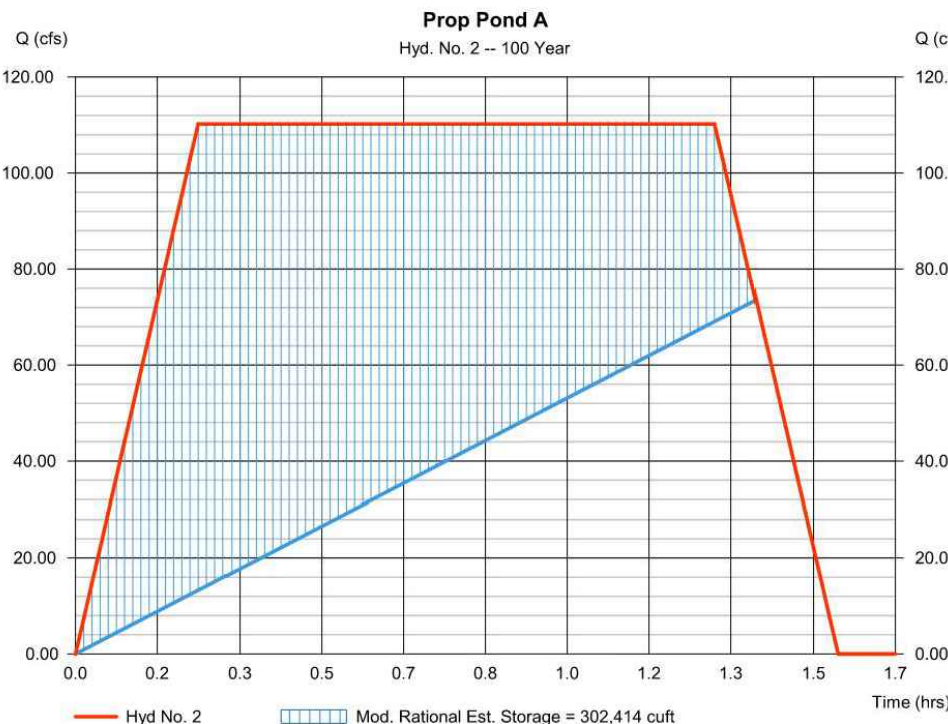
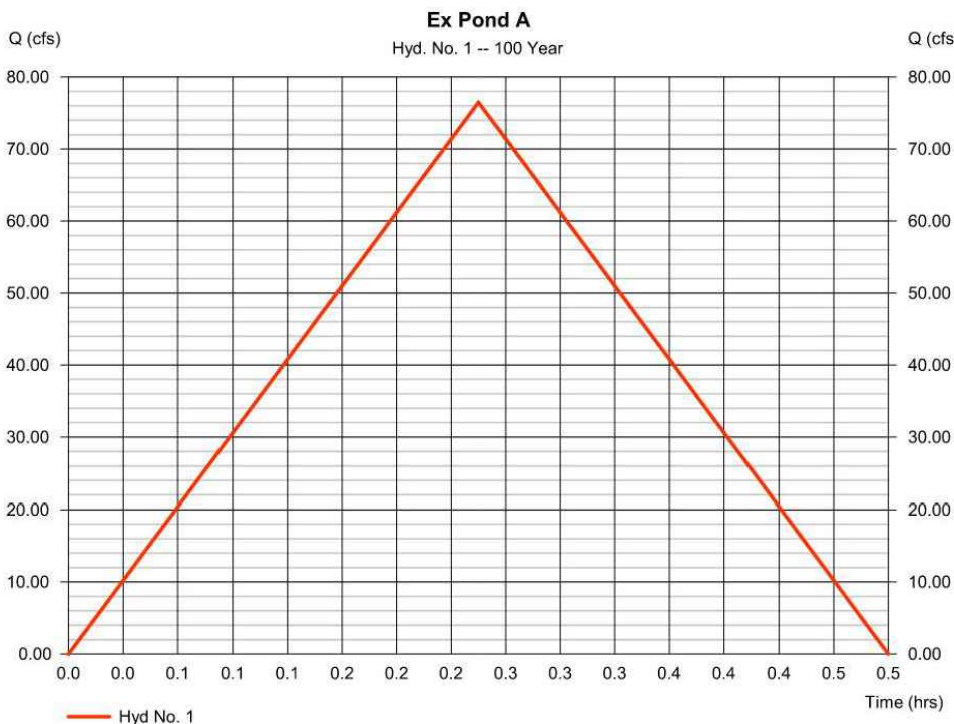
Hydraflo Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2024 Saturday, 03 / 22 / 2025

Hyd. No. 3

Pond A Outfall

Hydrograph type	= Reservoir	Peak discharge	= 74.72 cfs
Storm frequency	= 100 yrs	Time to peak	= 1.38 hrs
Time interval	= 1 min	Hyd. volume	= 515,908 cuft
Inflow hyd. No.	= 2 - Prop Pond A	Max. Elevation	= 696.49 ft
Reservoir name	= Pond A	Max. Storage	= 232,388 cuft

Storage indication method used.



EMERGENCY SPILLWAY CALCULATIONS

Discharge:	110.24	cfs	Headwater Height Above Crest:	0.98	ft
Headwater Elevation:	699.48	ft	Tailwater Height Above Crest:	-698.50	ft
Crest Elevation:	698.50	ft	Weir Coefficient:	2.82	ft^(1/2)/s
Tailwater Elevation:	0.00	ft	Submergence Factor:	1.000	
Crest Surface Type:	Gravel		Adjusted Weir Coefficient:	2.82	ft^(1/2)/s
Crest Breadth:	11.00	ft	Flow Area:	39.4	ft²
Crest Length:	40.0	ft	Velocity:	2.80	ft/s
			Wetted Perimeter:	42.0	ft
			Top Width:	40.00	ft

BENCHMARK:

AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL ZONE, NAVD 88.

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303.801.7333

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STATE OF TEXAS

POND PLAN & DETAILS
POND A

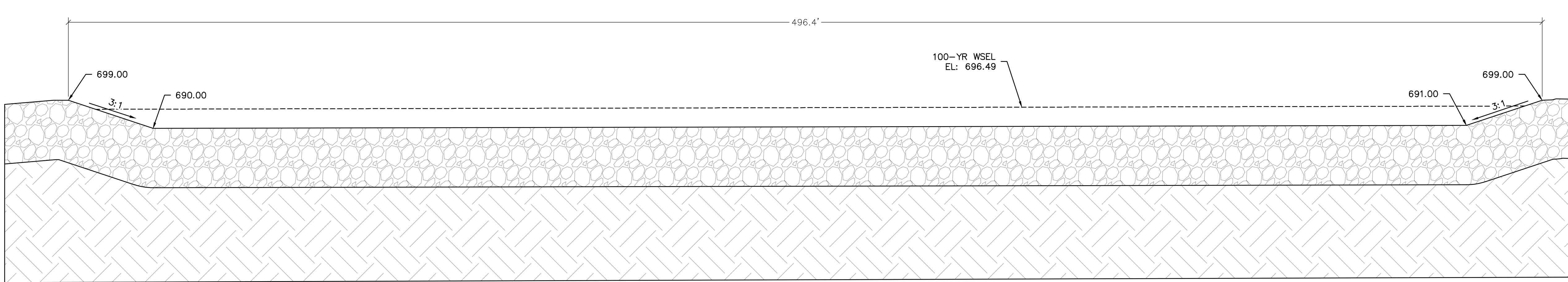
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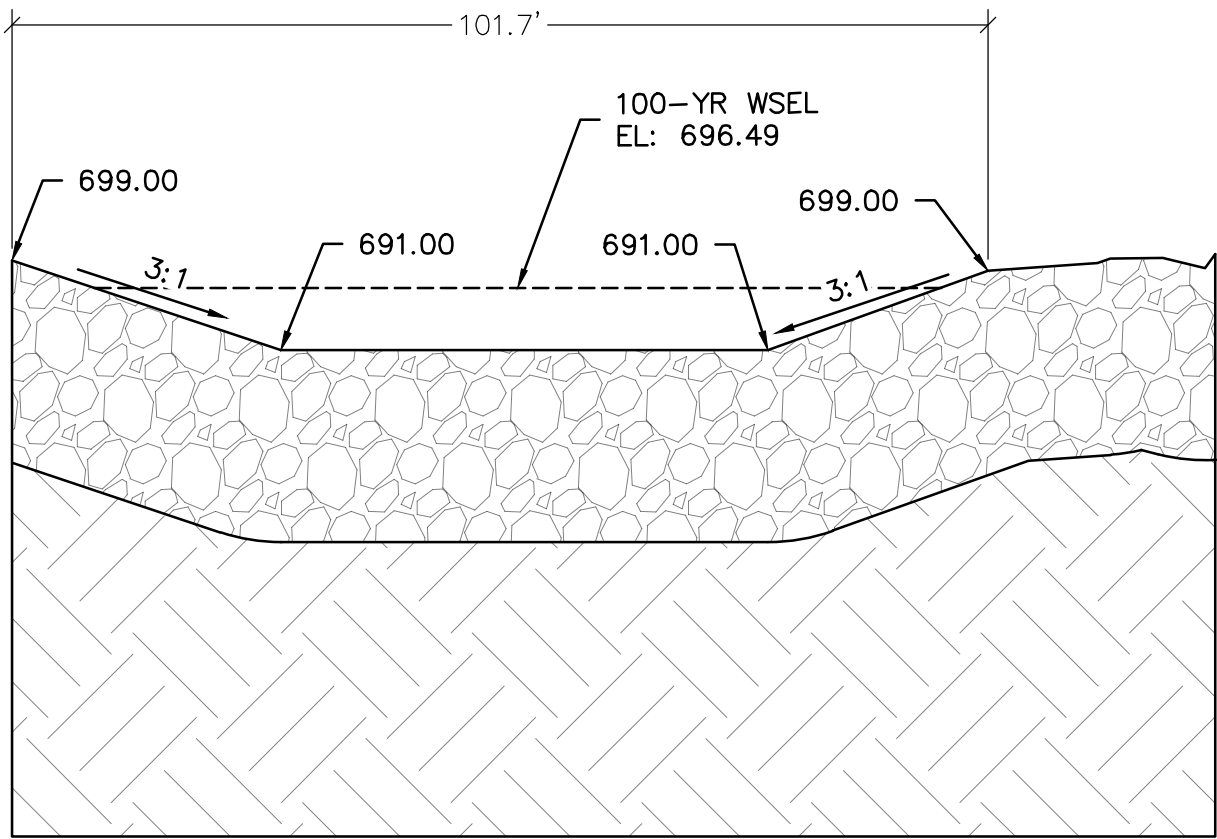
DR.	TN	CH.	KB
P.M.	JF		

JOB: 24007256
SHEET NO.: 81

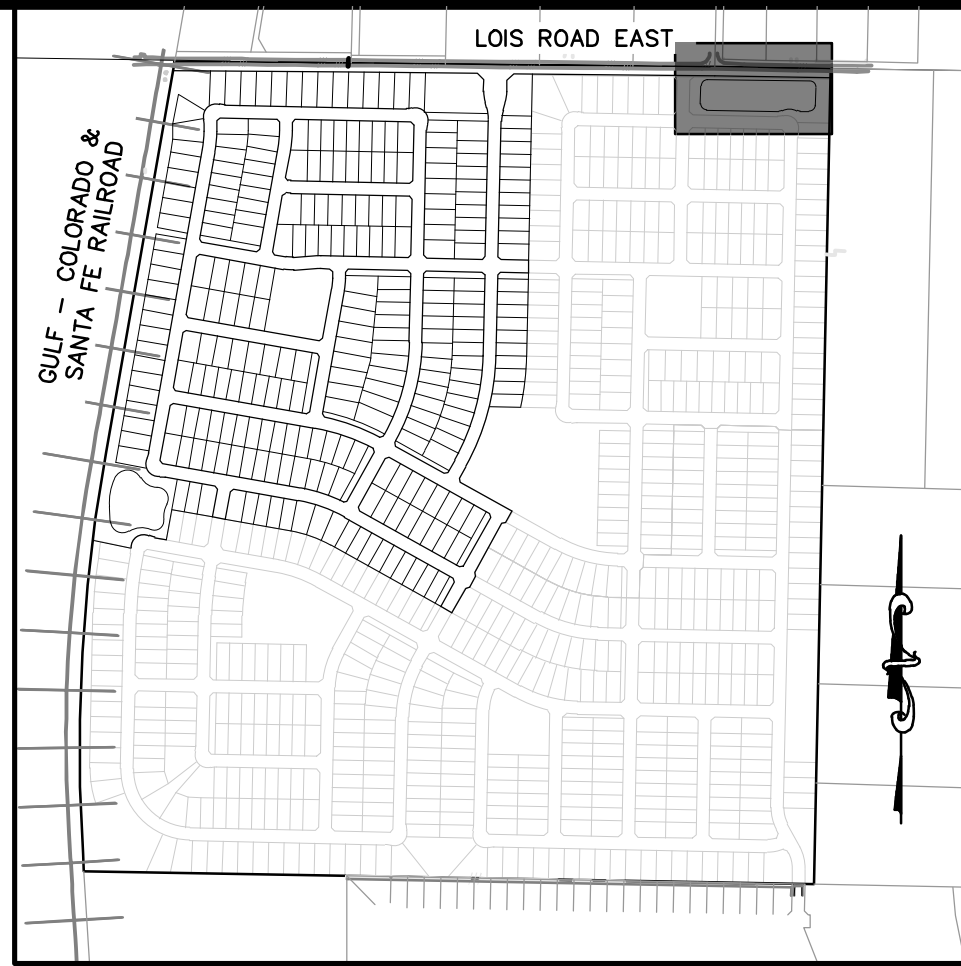
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SECTION A-A
SCALE: 1"=20'



SECTION B-B
SCALE: 1"=20'



KEYMAP
1"=750'

BENCHMARK:

AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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303.801.7333	
MICHAEL PRYOR	

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POND PLAN & DETAILS POND A SECTIONS	

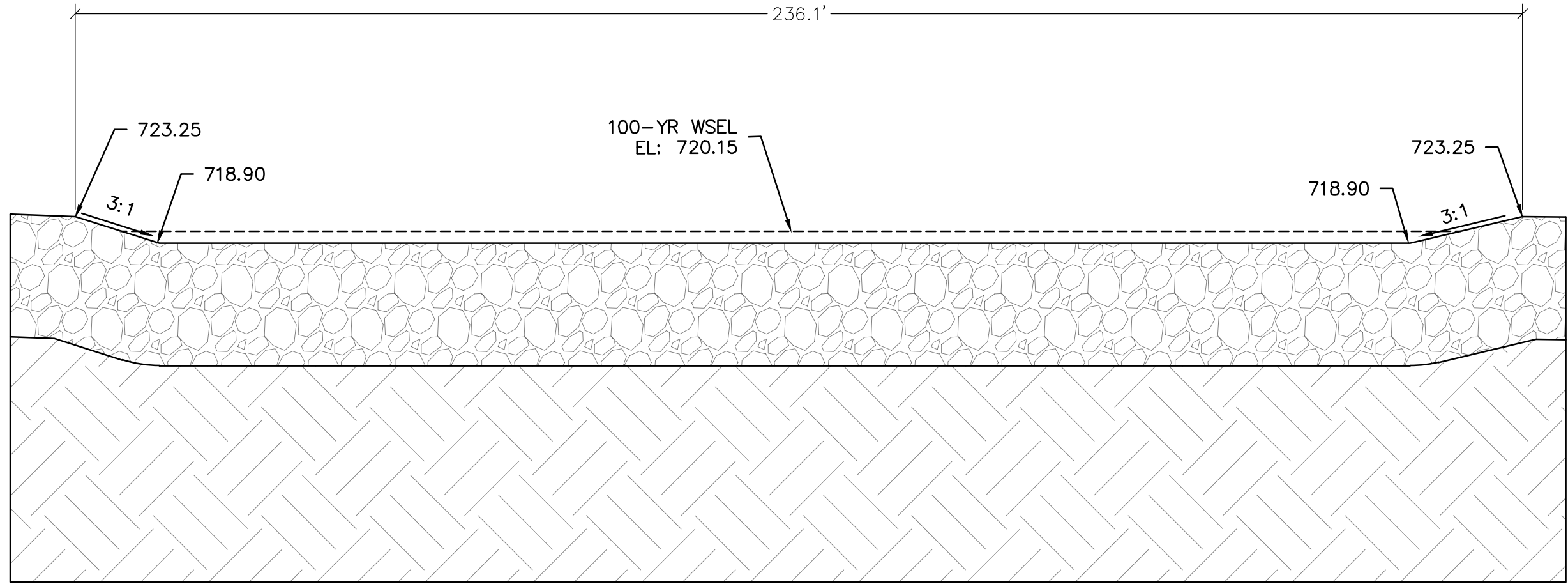
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DATE	4/7/2025

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B	2nd SUBMITTAL TO JURISDICTION	5/17/2025 - KMB

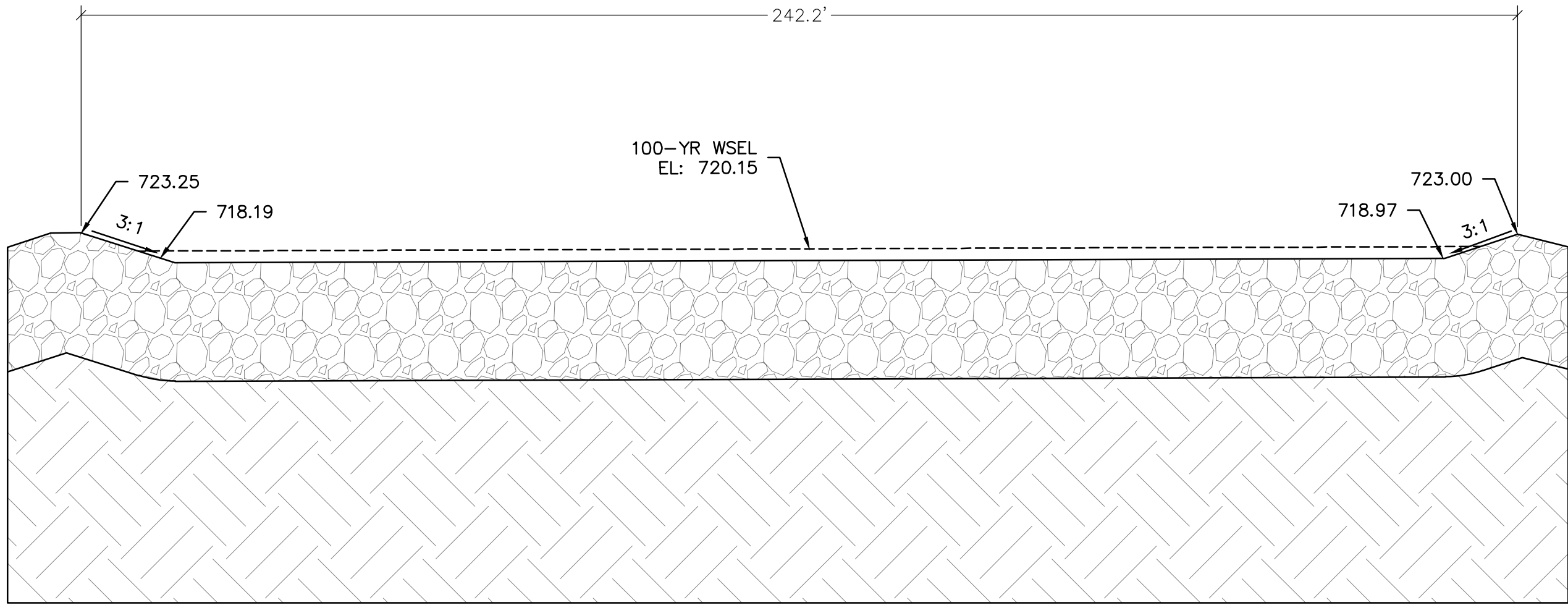
REVISIONS	

DR.	TN	CH.	KB
P.M.	JF		
JOB	24007256		
SHEET NO.	82		

CAD FILE: 24007256-PH1-GRAD-POND.DWG




SECTION A-A
SCALE: 1"=20'



SECTION B-B
SCALE: 1"=20'



KEYMAP
1"=750'



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DATE	4/7/2025
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B	2nd SUBMITTAL TO JURISDICTION	5/12/2025 – KMB

REVISIONS

DR.	TN	CH.	KB
P.M.	JF		

JOB	24007256
SHEET NO.	84

BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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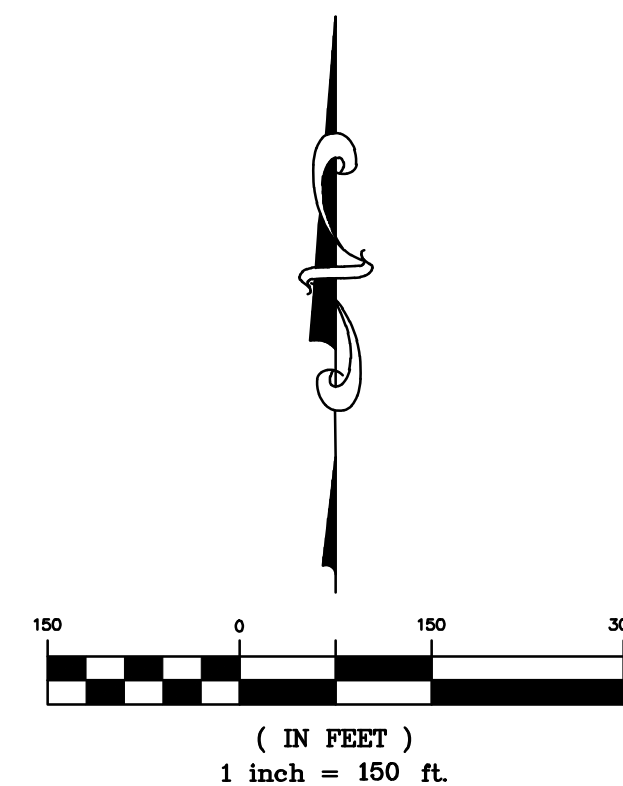
KEYMAP
1"=750'

1. Please update proposed drainage area map per updated grading plans and provide drainage areas at a scale smaller than 750 for easier visibility

LEGEND	
	PROPERTY BOUNDARY
	PROPOSED RIGHT-OF-WAY
	EXISTING RIGHT-OF-WAY
	PROPOSED LOT LINE
	EXISTING LOT LINE
	PROPOSED CATCH CURB & GUTTER
	PROPOSED SPILL CURB & GUTTER
	EXISTING CURB & GUTTER
	PROPOSED SIDEWALK
	EXISTING SIDEWALK
	EXISTING SECTION LINE
	PROPOSED EASEMENT
	EXISTING EASEMENT
	PROPOSED CONTOURS
	EXISTING CONTOURS

A = BASIN DESIGNATION
B = AREA IN ACRES

DESIGN POINT



BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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STATE OF TEXAS

DATE
4/7/2025

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DR. TN CH. KB
P.M. JF

JOB
24007256

SHEET NO.
86

PROPOSED DRAINAGE MAP

CAD FILE: 24007256-PROPOSED DRAINAGE MAP.DWG

K:\24007256\DWG\PLAN & DETAILS\24007256-DRAINAGE CALC SHEET.DWG 5/17/2025 11:48 AM 2025 MELSON

EXISTING DRAINAGE AREA CALCULATIONS								
Rational Method Q=CIA								
AREA	ACRES	C	Tc (min)	h ₀ (In/Hr)	h ₁₀₀ (In/Hr)	Q ₁₀ (cfs)	Q ₁₀₀ (cfs)	COMMENTS
EX-1	9.24	0.30	15	6.6	9.6	18.30	26.61	
EX-2	13.19	0.30	15	6.6	9.6	26.12	37.99	
EX-3	14.81	0.30	15	6.6	9.6	29.32	42.65	
EX-4	38.10	0.30	15	6.6	9.6	75.44	109.73	
EX-5	27.62	0.30	15	6.6	9.6	54.69	79.55	
EX-6	56.22	0.30	15	6.6	9.6	111.32	161.91	
EX-7	43.21	0.30	15	6.6	9.6	85.56	124.44	

Rational Method Q=CIA									
AREA	SF	ACRES	C	Tc (min)	h ₀ (In/Hr)	h ₁₀₀ (In/Hr)	Q ₁₀ (cfs)	Q ₁₀₀ (cfs)	COMMENTS
A	2,861,874	65.70	0.55	15	6.6	9.60	238.49	346.89	MAJOR BASIN A
POND A	77327	1.78	0.55	15	6.60	9.60	6.44	9.37	POND A
A1	165794	3.81	0.55	15	6.60	9.60	13.82	20.10	
A2	64539	1.48	0.55	15	6.60	9.60	5.38	7.82	
A3	79757	1.83	0.55	15	6.60	9.60	6.65	9.67	
A4	67340	1.55	0.55	15	6.60	9.60	5.61	8.16	
A5	64418	1.48	0.55	15	6.60	9.60	5.37	7.81	
A6	55179	1.27	0.55	15	6.60	9.60	4.60	6.69	
A7	64593	1.48	0.55	15	6.60	9.60	5.38	7.83	
A8	70471	1.62	0.55	15	6.60	9.60	5.87	8.54	
A9	67252	1.54	0.55	15	6.60	9.60	5.60	8.15	
A10	92029	2.11	0.55	15	6.60	9.60	7.67	11.16	
A11	114553	2.63	0.55	15	6.60	9.60	9.55	13.89	
A12	91368	2.10	0.55	15	6.60	9.60	7.61	11.07	
A15	164058	3.77	0.55	15	6.60	9.60	13.67	19.89	
A17	79303	1.82	0.55	15	6.60	9.60	6.61	9.61	
A18	67028	1.54	0.55	15	6.60	9.60	5.59	8.12	
A18.1	65467	1.50	0.55	15	6.60	9.60	5.46	7.94	
A19	43485	1.00	0.55	15	6.60	9.60	3.62	5.27	
A20	84400	1.94	0.55	15	6.60	9.60	7.03	10.23	
A21	117246	2.69	0.55	15	6.60	9.60	9.77	14.21	
A22	113015	2.59	0.55	15	6.60	9.60	9.42	13.70	
A23	111693	2.56	0.55	15	6.60	9.60	9.31	13.54	
A24	106905	2.45	0.55	15	6.60	9.60	8.91	12.96	
A25	72270	1.66	0.55	15	6.60	9.60	6.02	8.76	
A26	49923	1.15	0.55	15	6.60	9.60	4.16	6.05	
A27	89179	2.05	0.55	15	6.60	9.60	7.43	10.81	
A29	152919	3.51	0.55	15	6.60	9.60	12.74	18.54	
A30	106061	2.43	0.55	15	6.60	9.60	8.84	12.86	
A31	77148	1.77	0.55	15	6.60	9.60	6.43	9.35	
A32	145867	3.35	0.55	15	6.60	9.60	12.16	17.68	
A-37	29258	0.67	0.55	15	6.60	9.60	2.44	3.55	
A-40	61048	1.40	0.55	15	6.60	9.60	5.09	7.40	
TOTAL=							220.27	329.77	

B	931879	21.39	0.55	15	6.6	9.60	77.66	112.96	MAJOR BASIN B
POND B	42462	0.97	0.55	15	6.6	9.60	3.54	5.15	POND B
B1	104521	2.40	0.55	15	6.60	9.60	8.71	12.67	
B2	37164	0.85	0.55	15	6.60	9.60	3.10	4.50	
B3	82222	1.89	0.55	15	6.60	9.60	6.85	9.97	
B4	197396	4.53	0.55	15	6.60	9.60	16.45	23.93	
B5	113836	2.61	0.55	15	6.60	9.60	9.49	13.80	
B6	78007	1.79	0.55	15	6.60	9.60	6.50	9.46	
B7	99045	2.27	0.55	15	6.60	9.60	8.25	12.01	
B10	100017	2.30	0.55	15	6.60	9.60	8.33	12.12	
B11	22567	0.52	0.55	15	6.60	9.60	1.88	2.74	
TOTAL=							69.56	101.18	


C		0.00	0.55	15	6.6	9.60	0.00	0.00	MAJOR BASIN C
POND C	53919	1.24	0.55	15	6.6	9.60	4.49	6.54	POND C
C1	114468	2.63	0.55	15	6.60	9.60	9.54	13.87	
C3	119825	2.75	0.55	15	6.60	9.60	9.99	14.52	
C5	43266	0.99	0.55	15	6.60	9.60	3.61	5.24	
C6	56052	1.29	0.55	15	6.60	9.60	4.67	6.79	
C7	120709	2.77	0.55	15	6.60	9.60	10.06	14.63	
C9	107682	2.47	0.55	15	6.60	9.60	8.97	13.05	
C10	102843	2.36	0.55	15	6.60	9.60	8.57	12.47	
C11	140646	3.23	0.55	15	6.60	9.60	11.72	17.05	
C13	74001	1.70	0.55	15	6.60	9.60	6.17	8.97	
C14	84638	1.94	0.55	15	6.60	9.60	7.05	10.26	
C15	56074	1.29	0.55	15	6.60	9.60	4.67	6.80	
C16	82542	1.89	0.55	15	6.60	9.60	6.88	10.01	
C17	143589	3.30	0.55	15	6.60	9.60	11.97	17.40	
C19	142386	3.27	0.55	15	6.60	9.60	11.87	17.26	
TOTAL=							115.73	168.33	

D			0.55	15	6.6	9.6	0.00	0.00	MAJOR BASIN D
POND D			0.55	15	6.6	9.6	0.00	0.00	POND D
D3	160863	3.69	0.55	15	6.60	9.60	13.41	19.50	
D4	91285	2.10	0.55	15	6.60	9.60	7.61	11.06	
D5	77384	1.78	0.55	15	6.60	9.60	6.45	9.38	
D6	72137	1.66	0.55	15	6.60	9.60	6.01	8.74	
D7	90920	2.09	0.55	15	6.60	9.60	7.58	11.02	
D8	161804	3.71	0.55	15	6.60	9.60	13.48	19.61	
D9	62324	1.43	0.55	15	6.60	9.60	5.19	7.55	
D10	146449	3.36	0.55	15	6.60	9.60	12.20	17.75	
D11	162882	3.74	0.55	15	6.60	9.60	13.57	19.74	
D13	104629	2.40	0.55	15	6.60	9.60	8.72	12.68	
D15	143551	3.30	0.55	15	6.60	9.60	11.96	17.40	
D17	83731	1.92	0.55	15	6.60	9.60	6.98	10.15	
D18	143652	3.30	0.55	15	6.60	9.60	11.97	17.41	
D20	84646	1.94	0.55	15	6.60	9.60	7.05	10.26	
D22	140917	3.24	0.55	15	6.60	9.60	11.74	17.08	
D24	143359	3.29	0.55	15	6.60	9.60	11.95	17.38	
D25	66434	1.53	0.55	15	6.60	9.60	5.54	8.05	
D26	82466	1.89	0.55	15	6.60	9.60	6.87	10.00	
D27	85335	1.96	0.55	15	6.60	9.60	7.11	10.34	
D28	137975	3.17	0.55	15	6.60	9.60	11.50	16.72	
D29	95923	2.20	0.55	15	6.60	9.60	7.99	11.63	
D30	112040	2.57	0.55	15	6.60	9.60	9.34	13.68	
D32	137575	3.16	0.55	15	6.60	9.60	11.46	16.68	
D34	118915	2.73	0.55	15	6.60	9.60	9.91	14.41	
D35	137176	3.15	0.55	15	6.60	9.60	11.43	16.63	
D37	56826	1.30	0.55	15	6.60	9.60	4.74	6.89	
D38	148846	3.42	0.55	15	6.60	9.60	12.40	18.04	
D40	62752	1.44	0.55	15	6.60	9.60	5.23	7.61	
TOTAL=							259.40	377.31	

OS1	34171	0.78	0.55	15	6.60	9.60	2.85	4.14	
OS2	49046	1.13	0.55	15	6.60	9.60	4.09	5.94	
OS3	61108	1.40	0.55	15	6.60	9.60	5.09	7.41	
OS4	23931	0.55	0.55	15	6.60	9.60	1.99	2.90	
OS5	17747	0.41	0.55	15	6.60	9.60	1.48	2.15	
OS6	18252	0.42	0.55	15	6.60	9.60	1.52	2.21	
OS7	24049	0.55	0.55	15	6.60	9.60	2.00	2.92	
TOTAL=							14.02	20.39	

BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL ZONE, NAVD 88.




Know what's below.
Call before you dig.

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NOTICE:
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866.850.4200 www.atwell-group.com
143 UNION BOULEVARD, SUITE 700
LAKEWOOD, CO 80228
303.462.1100

KALTER CAPITAL

9788 SOUTH JOHNSON WAY
LITTLETON, COLORADO 80127

303.801.7333

MICHAEL PRYOR

KALTER CAPITAL

LOIS ROAD ESTATES – FILING NOS. 1 & 2
CITY OF SANGER, COUNTY OF DENTON,
STATE OF TEXAS

POND PLAN & DETAILS
RATIONAL CALCS

CLIENT

DATE 4/7/2025

A 1st SUBMITTAL TO JURISDICTION
4/7/2025 – KMB

B 2nd SUBMITTAL TO JURISDICTION
5/12/2025 – KMB

DR. TN

CH. KB

P.M. JF

JOB 24007256

SHEET NO.

87

CAD FILE: 24007256-DRAINAGE CALC SHEET.DWG

BASIN	INLET	AREA (AC)	SUMP/ON- GRADE	100-YR FLOW (CFS)	100-YR CARRY/OVER FLOW (CFS)	LONG SLOPE (FT/FT)	PAVEMENT CROSS SLOPE (FT/FT)	GUTTER CROSS SLOPE (FT/FT)	DEPTH OF FLOW (FT)	SPREAD OF FLOW (FT)	CROSS SLOPE (FT/FT)	MANNINGS COEFF "N"	REQUIRED LENGTH ON OF INLET	LENGTH PROVIDED	L/LI	EFFICIENCY "E"	INLET CAPACITY	100-YR PERCENT CAPTURED (%)	100-YR BYPASS FLOW (CFS)	10-YR BYPASS FLOW (CFS)
1	2	3	4	5	6															
A1	A1	3.81	ON-GRADE	20.10	0	0.0127	0.02	0.2	0.5	15.5	0.02	0.013	20.31	20	0.98	1.00	19.38	96.5	0.71	0
A10	A10	2.11	ON-GRADE	11.16	0	0.0168	0.02	0.2	0.5	15.5	0.02	0.013	17.25	20	1.16	1.00	15.87	100.0	0.00	0
A22	A22	2.59	ON-GRADE	13.70	0	0.01	0.02	0.2	0.5	15.5	0.02	0.013	16.09	20	1.24	1.00	22.99	100.0	0.00	0
A29	A31	3.51	ON-GRADE	18.54	0	0.006	0.02	0.2	0.5	15.5	0.02	0.013	15.67	20	1.28	1.00	33.12	100.0	0.00	0
B1	B1	2.40	ON-GRADE	12.67	0	0.006	0.02	0.2	0.5	15.5	0.02	0.013	13.36	15	1.12	1.00	16.69	100.0	0.00	0
B2	B2	0.85	ON-GRADE	4.50	0	0.006	0.02	0.2	0.5	15.5	0.02	0.013	8.65	10	1.16	1.00	6.36	100.0	0.00	0
B7	B7	2.27	ON-GRADE	12.01	0	0.006	0.02	0.2	0.5	15.5	0.02	0.013	13.06	15	1.15	1.00	16.69	100.0	0.00	0
B11	B12	0.52	ON-GRADE	2.74	0	0.01	0.02	0.2	0.5	15.5	0.02	0.013	8.18	10	1.22	1.00	4.41	100.0	0.00	0

Channel Report

Monday, May 12 2025

User-defined		Highlighted	
Invert Elev (ft)	= 9.30	Depth (ft)	= 0.36
Slope (%)	= 0.60	Q (cfs)	= 20.10
N-Value	= 0.013	Area (sqft)	= 6.46
		Velocity (ft/s)	= 3.11
Calculations		Wetted Perim (ft)	= 29.28
Compute by:	Known Q	Crit Depth, Yc (ft)	= 0.39
Known Q (cfs)	= 20.10	Top Width (ft)	= 29.16

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON
NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL
ZONE, NAVD 88.



K:\4007256\DWG\PLAN & DETAILS\4007256-DRAINAGE CALC SHEET.DWG 4/7/2025 11:48 AM 1000 RESION

PIPE	Start Node	Stop Node	Invert (Start) (ft)	Invert (Stop) (ft)	Flow (cfs)	Length (3D) (ft)	Slope (ft/ft)	Diameter (in)	Manning's n	Friction Slope f _s (ft/ft)	Velocity (ft/s)	Capacity (Full Flow) (cfs)	Design Capacity %full(%)	Hydraulic Grade Line (In) (ft)	Hydraulic Grade Line (Out) (ft)	Energy Grade Line (In) (ft)	Energy Grade Line (Out)	Headloss(ft)
RUN 1																		
P1.1	PH1-MH 1.8	PH1-MH 1.7	710.76	705.77	7.4	199.9	0.025	24	0.013	0.022	8.97	35.74	20.7	711.73	706.39	712.1	707.64	0.03
P1.1.1	MH-10	PH1-MH 1.1	690.48	690.35	7.4	23.4	0.006	24	0.013	0.001	2.36	16.86	43.9	693.93	693.91	694.02	693.99	0.19
P1.2	PH1-MH 1.7	PH1-MH 1.6	705.67	701.37	7.4	171.9	0.025	24	0.013	0.008	8.98	35.77	20.7	706.64	705.54	707.01	705.63	0.02
P1.3	PH1-MH 1.6	PH1-MH 1.5	701.27	699.89	7.4	91.9	0.015	24	0.013	0.001	2.36	27.73	26.7	705.52	705.42	705.61	705.51	0.35
P1.4	PH1-MH 1.5	PH1-MH 1.4	699.89	698.21	27.89	105.6	0.016	24	0.013	0.015	8.88	28.53	97.8	705.07	703.47	706.3	704.69	0.29
P1.5	PH1-MH 1.4	PH1- MH 1.3	698.11	694.77	27.89	222.8	0.015	24	0.013	0.015	8.88	27.7	100.7	703.18	699.79	704.4	701.02	0.28
P1.6	PH1- MH 1.3	PH1-MH 1.2	694.67	692.17	27.89	249.8	0.01	24	0.013	0.015	8.88	22.63	123.2	699.51	695.71	700.73	696.94	0.07
P1.7	PH1-MH 1.2	PH1-MH 1.1	691.67	690.35	27.89	253.9	0.005	30	0.013	0.005	5.68	29.58	94.3	695.64	694.47	696.14	694.97	0.77
P1.8	PH1-MH 1.1	O-5	690.35	690	54.79	68.1	0.005	30	0.013	0.018	11.16	29.41	186.3	693.71	692.5	695.65	694.44	(N/A)
RUN 2																		
P2.1	PH1-MH 2.10	MH 2-9	715.16	714.79	31.4	69.7	0.008	24	0.013	0.019	9.99	19.74	159.1	721.08	720.15	722.64	721.7	0.17
P2.2	MH 2-9	MH 2-8	714.29	712.33	51.56	262	0.007	36	0.013	0.006	7.29	57.69	89.4	719.98	718.41	720.8	719.24	0.11
P2.2.1	PH1-MH 2.1.1	MH 2-2	695.02	694.55	7.83	47	0.01	24	0.013	0.001	2.49	22.66	34.6	699.51	699.45	699.61	699.55	1.67
P2.3	MH 2-8	MH 2-7	712.23	710.66	51.56	262	0.006	36	0.013	0.006	7.29	51.63	99.9	718.3	716.73	719.12	717.56	0.97
P2.4	MH 2-7	MH-9	710.65	708.61	80.62	22	0.039	36	0.013	0.015	11.41	131.97	61.1	715.76	715	717.78	717.02	1.93
P2.5	MH-9	MH 2-6	708.51	700.19	98.46	224.8	0.037	36	0.013	0.022	13.93	128.29	76.7	713.07	708.17	716.09	711.19	0.74
P2.6	MH 2-6	MH 2-5	700.09	699.17	98.46	205.3	0.004	42	0.013	0.01	10.23	67.35	146.2	707.43	705.47	709.06	707.09	1.15
P2.7	MH 2-5	MH 2-4	699.07	698.29	98.46	156.4	0.005	42	0.013	0.01	10.23	71.06	138.6	704.32	702.82	705.94	704.45	0.75
P2.8	MH 2-4	MH 2-3	697.29	693.45	176.26	255.7	0.015	54	0.013	0.008	11.08	240.97	73.1	702.07	700.02	703.98	701.93	0.1
P2.9	MH 2-3	MH 2-2	692.8	691.65	176.26	190.3	0.006	60	0.013	0.005	8.98	202.45	87.1	699.91	699.04	701.16	700.29	0.16
P2.10	MH 2-2	MH 2-1	691.55	690.58	212	175.2	0.006	60	0.013	0.007	10.8	201.21	105.4	698.89	697.81	700.7	699.62	0.99
P2.11	MH 2-1	O-1	690.58	690	220.16	74.6	0.008		0.013	0.004	8.81	291.95	75.4	696.82	696.49	698.02	697.7	(N/A)
RUN 3																		
P3.1	MH 4-6	MH 4-5	718.21	717.96	30.64	41.9	0.006	30	0.013	0.006	6.24	31.67	96.8	724.45	724.22	725.06	724.83	0.75
P3.2	MH 4-5	MH 4-4	717.86	716.03	30.64	305	0.006	30	0.013	0.006	6.24	31.77	96.4	723.47	721.77	724.07	722.37	0.32
P3.3	MH 4-4	MH 4-3	715.93	714.19	52.92	290	0.006	30	0.013	0.017	10.78	31.77	166.6	721.45	716.52	723.26	718.44	0.18
P3.4	MH 4-3	MH 4-2	713.72	710.49	66.64	290	0.011	36	0.013	0.01	11.33	70.39	94.7	716.33	713.71	717.95	715.09	1.11
P3.5	MH 4-2	MH 4-1	709.99	704.19	66.64	290.1	0.02	36	0.013	0.02	14.44	94.31	70.7	712.6	706.86	714.22	708.42	0.16
P3.6	MH 4-1	MH 2-4	704.09	698.29	66.64	290.1	0.02	36	0.013	0.012	14.47	94.32	70.7	706.7	703.55	708.32	704.93	1.47
RUN 4																		
P4.1	SD-MH_19 (STRM)	MH 2-7	714.15	711.66	20.9	332	0.008	30	0.013	0.003	4.26	35.52	58.8	718.76	717.9	719.04	718.18	2.14
RUN 5																		
P5.1	PH1-MH 5.1	MH 2-9	715.44	715.19	20.16	42	0.006	24	0.013	0.008	6.42	17.47	115.4	721.24	720.9	721.88	721.54	0.93
RUN 6																		
P6.1	PH1-MH 6-1	MH 4-3	714.81	714.39	24.44	42	0.01	30	0.013	0.004	4.98	41.05	59.5	717.62	717.47	718	717.86	1.14
RUN 7																		
P7.1	PH1 - MH 7.3	PH1- MH 7.2	721.09	719.98	17.17	148.1	0.007	24	0.013	0.006	5.47	19.58	87.7	724.54	723.69	725.01	724.15	0.26
P7.2	PH1- MH 7.2	PH1- MH 7.1	719.48	718.03	40.94	290	0.005	30	0.013	0.01	8.34	29	141.2	723.43	720.54	724.51	721.62	0.39
P7.3	PH1- MH 7.1	O-3	717.53	717	86.34	55.9	0.009		0.013	0.004	11.03	120.34	71.7	720.15	720.15	721.21	720.95	(N/A)
RUN 8																		
P8.1	PH1-MH 8.1	PH1- MH 7.2	720.25	719.98	23.77	52.9	0.005	24	0.013	0.011	7.57	16.16	147.1	724.55	723.97	725.44	724.86	0.54
RUN 9																		
P9.1	PH1-MH 9.1	PH1- MH 7.1	719.5	718.03	45.4	492.9	0.003	36	0.013	0.004	6.42	36.42	124.6	722.86	720.55	723.5	721.35	0.4
POND A OUTFALL																		
POND A OUTFALL PIPE	POND A OUTFALL	O-6	690.13	688.93	37.36	117.7	0.01	24	0.013	0.027	11.89	22.87	163.4	694.11	690.86	696.31	693.1	(N/A)

Maximum velocity in the pipe shall not exceed 12 feet per second per § 10.106(d)(6)(B)(ii)

Provide Hydraulic calculations for laterals

BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

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DR. TN

CH. KB

P.M. JF

JOB 24007256

SHEET NO. 89

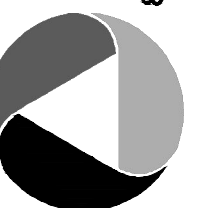


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KALTER CAPITAL
LOIS ROAD ESTATES – FILING NOS. 1 & 2
CITY OF SANGER, COUNTY OF DENTON,
STATE OF TEXAS

DATE

4/7/2025

1st SUBMITTAL TO JURISDICTION

4/7/2025 – KMB

2nd SUBMITTAL TO JURISDICTION

5/12/2025 – KMB

REVISIONS

DR. TN

CH. KB

P.M. JF

JOB 24007256

SHEET NO. 89

CAD FILE: 24007256-DRAINAGE CALC SHEET.DWG

Pond A Outfall 1
2~ 24" 46 cfs (Total)
23 cfs ea.

40' WIDE EMERGENCY SPILLWAY
CREST EL. 698.5

Pond Outlet

(2) 24" RCP
FL IN - 699.00
FL OUT - 698.00
Q100 - 74.72 CFS
ENERGY DISSIPATING RIPRAP

POND A
8.84 AC-FT
TOP OF BANK - 699.50
FL OUT - 689.00
100YR WSEL - 696.49

Pond A Infall 1
36" Storm
32 cfs

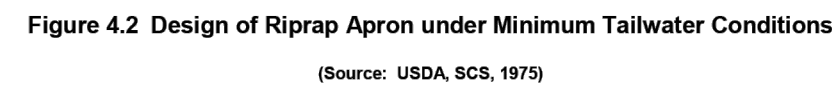
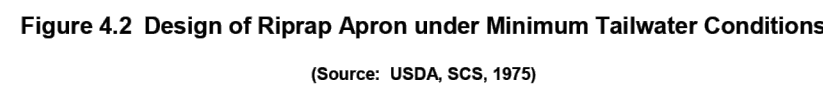
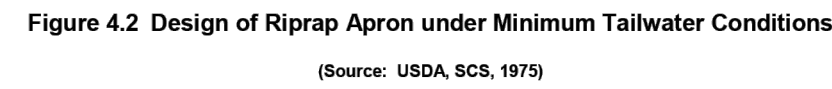
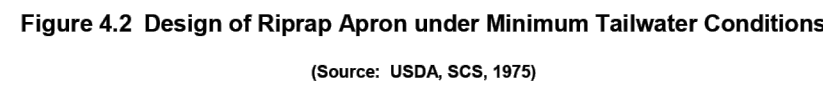
Pond A Infall 2
66" Storm
220 cfs

ENERGY DISSIPATING RIPRAP

POND EASEMENT

Flow

Elevations: 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 13

[illegible]

BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION
OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE
RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3
FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND
AN EASTING COORDINATE VALUE OF 2,374,666.1.

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON
NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL
ZONE, NAVD 88.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE
SOLE RESPONSIBILITY OF THE
CONTRACTOR; NEITHER THE OWNER
NOR THE ENGINEER SHALL BE
EXPECTED TO ASSUME ANY
RESPONSIBILITY FOR SAFETY OF
THE WORK, OF PERSONS ENGAGED
IN THE WORK, OF ANY NEARBY
STRUCTURES, OR OF ANY OTHER
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LOIS
CL

DATE 4/7/2025

A	1 ST SUBMITTAL TO JURISDICTION 4/7/2025 - KMB
B	2 ND SUBMITTAL TO JURISDICTION 5/12/2025 - KMB

REVISIONS

1000

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DR.	TN	CH.	KB
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P.M. JF


SHEET NO. 90

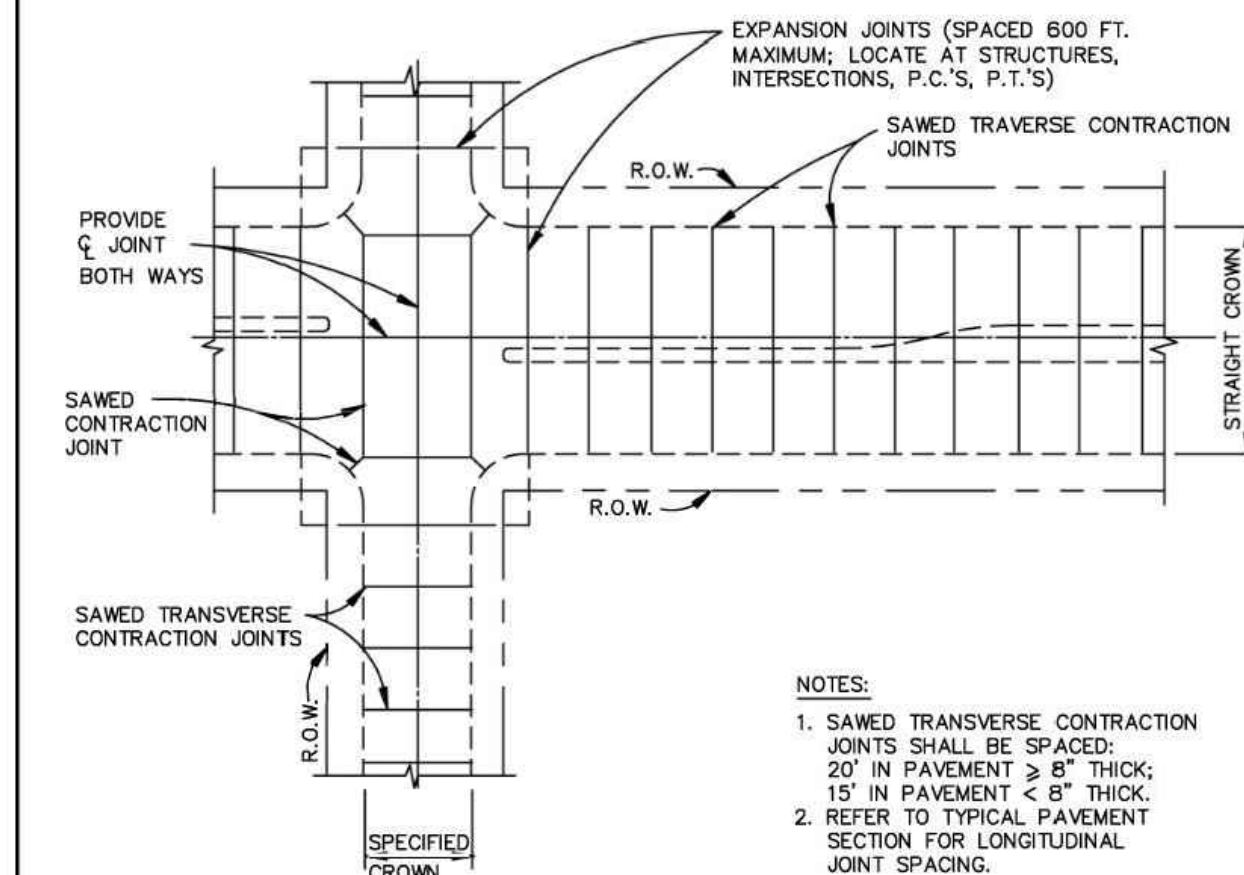
GENERAL NOTES:

1. REINFORCED CONCRETE PAVEMENT:
 - A. ALL CURBS SHALL BE PLACED INTEGRAL WITH PAVEMENT UNLESS OTHERWISE APPROVED BY THE OWNER.
 - B. CURBS SHALL MEET THE SAME COMPRESSIVE STRENGTH AS SPECIFIED FOR THE PAVEMENT.
 - C. BAR LAPS SHALL BE 30 DIAMETERS.
 - D. REINFORCING BARS SHALL BE SUPPORTED BY CHAIRS OR OTHER DEVICES APPROVED BY THE OWNER.
2. SUBGRADE: (UNLESS OTHERWISE SPECIFIED BY OWNER)
 - A. SUBGRADE UNDER ALL PAVEMENTS SHALL BE STABILIZED TO A MINIMUM DEPTH OF 6" WITH HYDRATED LIME OR CEMENT WHEN THE P.I. OF THE INPLACE MATERIAL IS GREATER THAN 15. LABORATORY TESTS MUST BE PERFORMED TO DETERMINE THE AMOUNT OF LIME OR CEMENT REQUIRED TO LOWER THE P.I. TO 15 OR BELOW. SATURATION P.I. (PH ≥ 12.4) WILL BE THE LIMIT WHEN A SOIL'S P.I. CANNOT BE BROUGHT TO 15 OR LOWER.
 - B. WHERE THE INPLACE MATERIAL HAS A P.I. OF LESS THAN 15, THE SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 6" AND RECOMPACTED.
3. IF THE ROADWAY IS A DESIGNATED BIKE ROUTE OR BIKE USAGE IS ANTICIPATED, REFER TO NCTCOG'S REGIONAL BICYCLE AND PEDESTRIAN FACILITIES DESIGN MANUAL FOR DESIGN GUIDANCE.

PAVEMENT SYSTEMS

GENERAL NOTES

North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE
	302.303
DATE	STANDARD DRAWING NO.
OCT. '04	2190




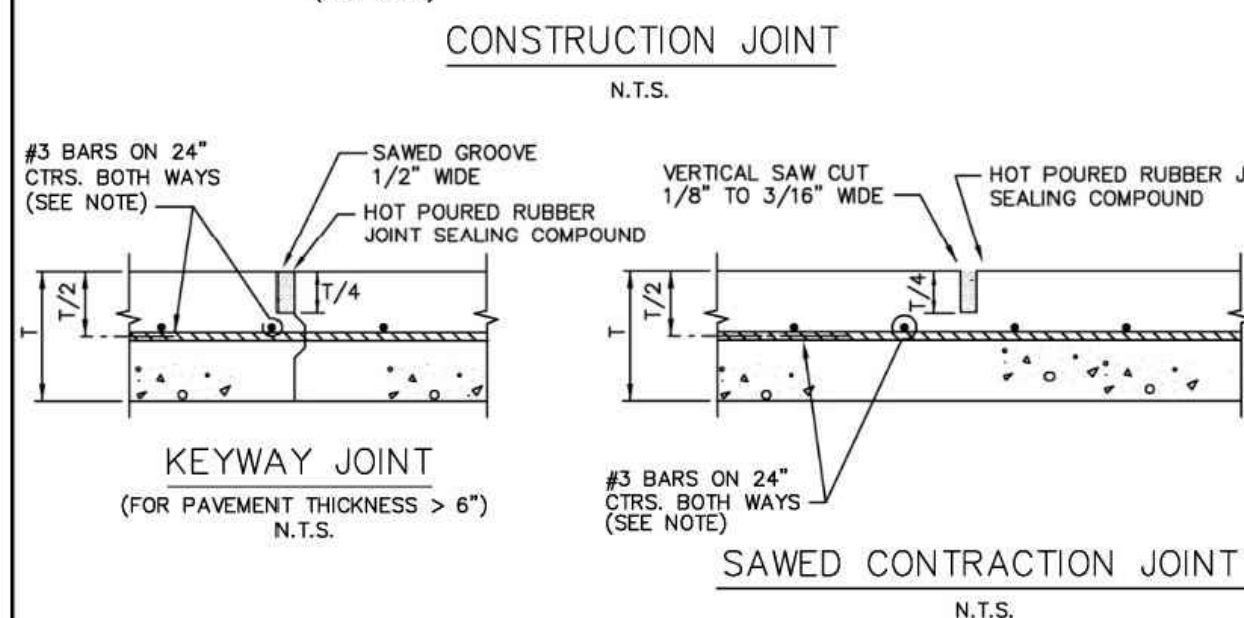
SPACING DIAGRAM FOR TRANSVERSE JOINTS

N.T.S.

REINFORCED CONCRETE PAVEMENT

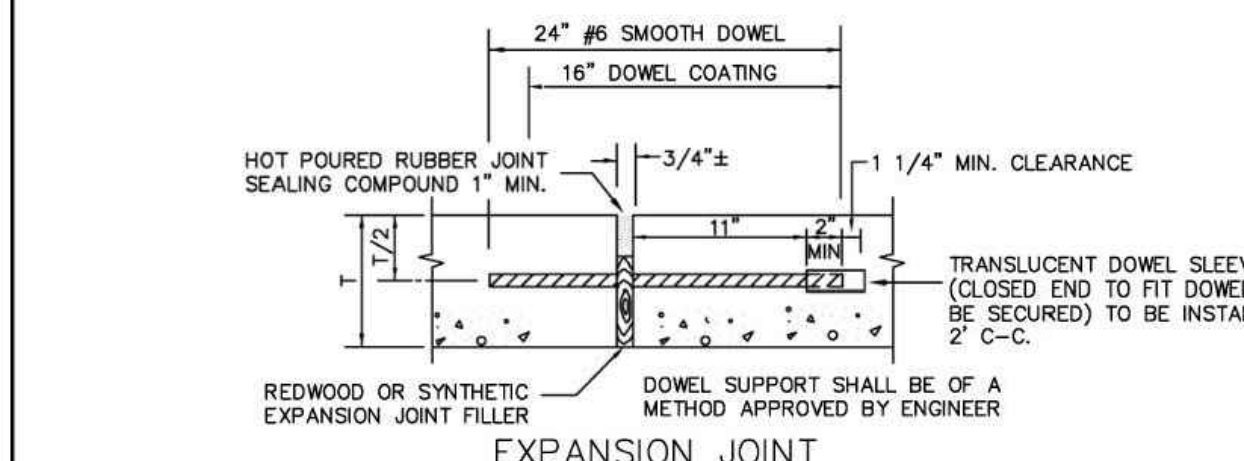
TRANSVERSE JOINT SPACING

North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE
	303.5.4.
DATE	STANDARD DRAWING NO.
OCT. '04	2060



CONSTRUCTION JOINT

N.T.S.



KEYWAY JOINT

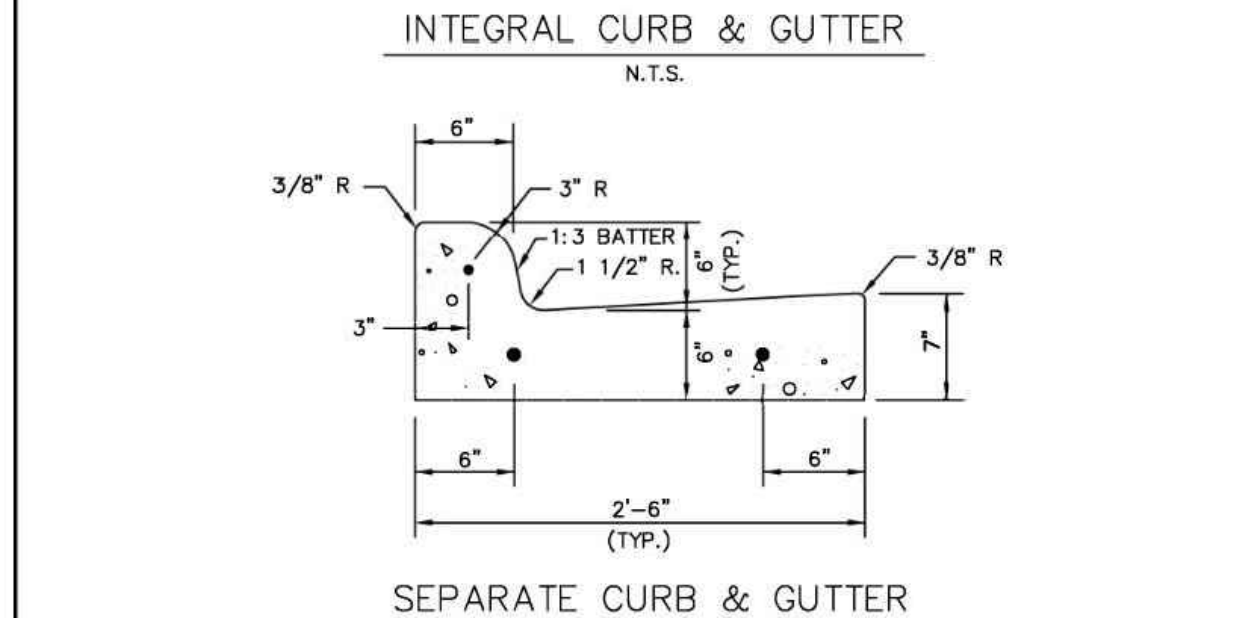
(FOR PAVEMENT THICKNESS > 6")

N.T.S.

North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE
	303.5.4.
DATE	STANDARD DRAWING NO.
OCT. '04	2050

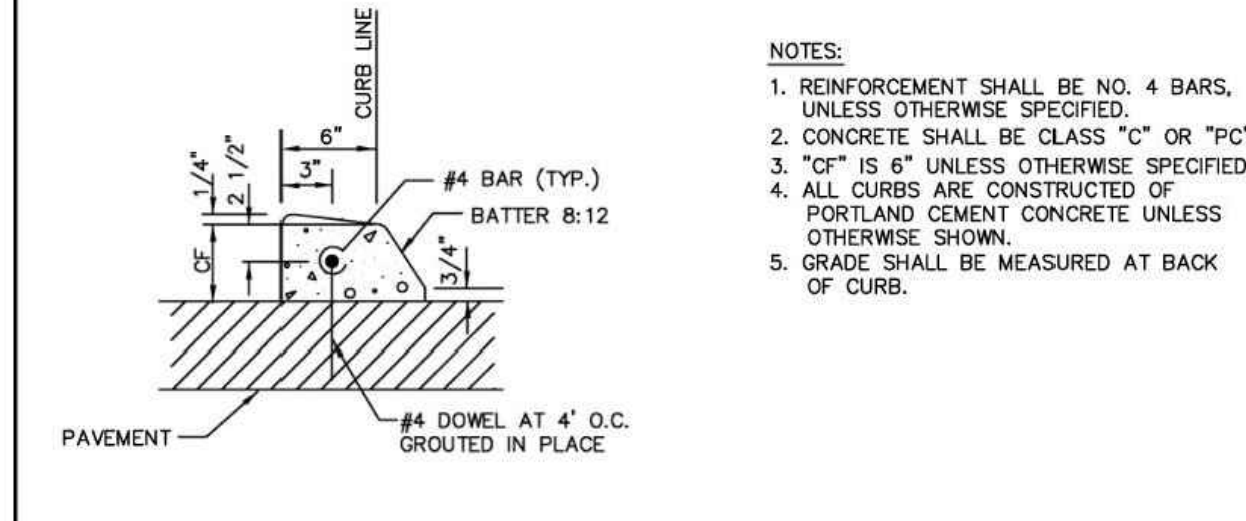
REINFORCED CONCRETE PAVEMENT

JOINTS




INTEGRAL CURB & GUTTER

N.T.S.



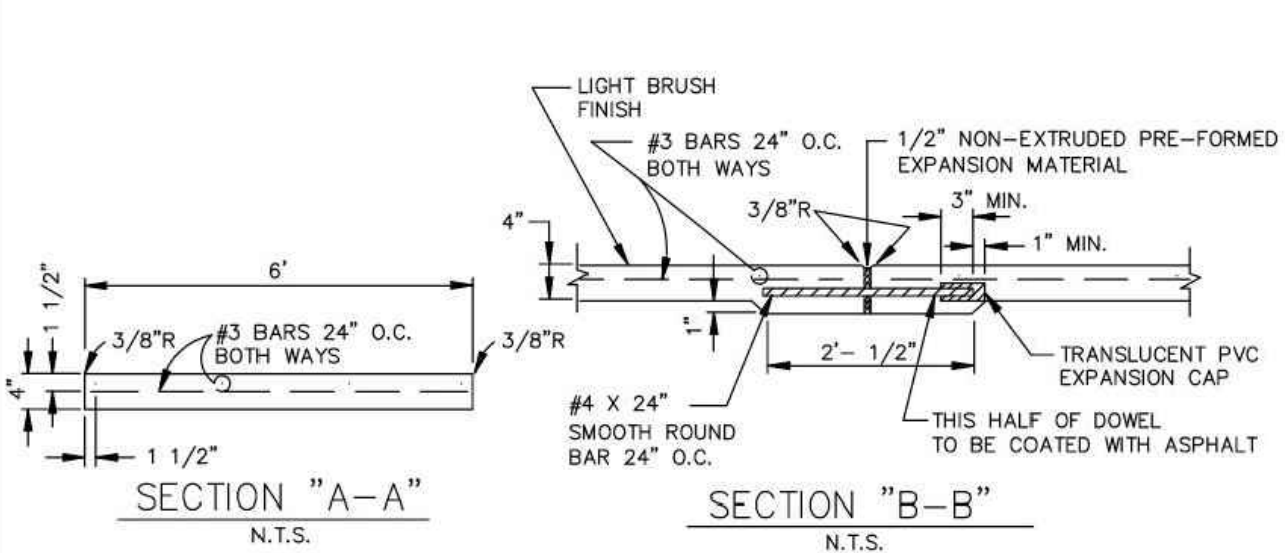
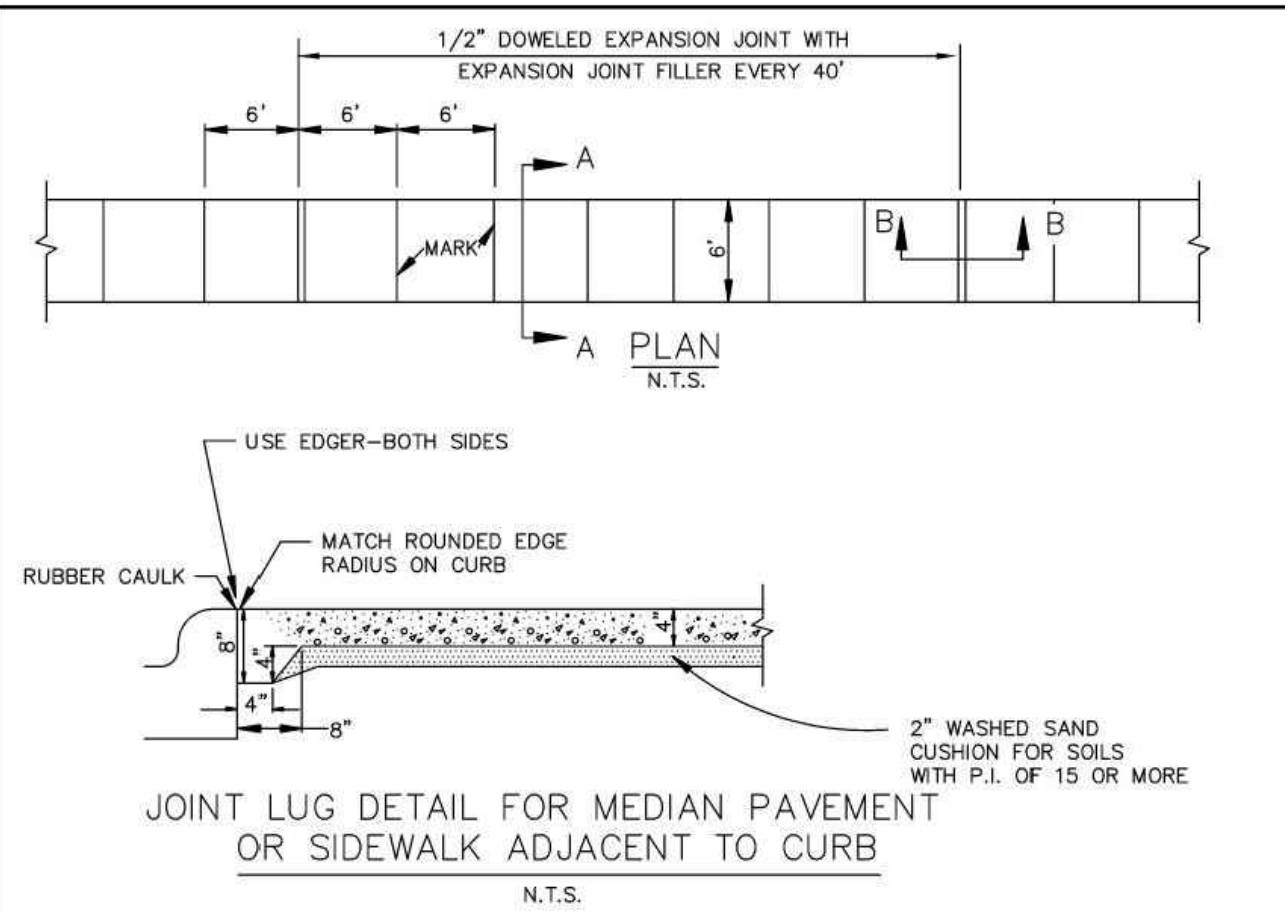
SEPARATE CURB & GUTTER

N.T.S.

North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE
	305.1
DATE	STANDARD DRAWING NO.
OCT. '04	2120

CONCRETE CURB & GUTTER

INTEGRAL, SEPARATE, & DOWELED

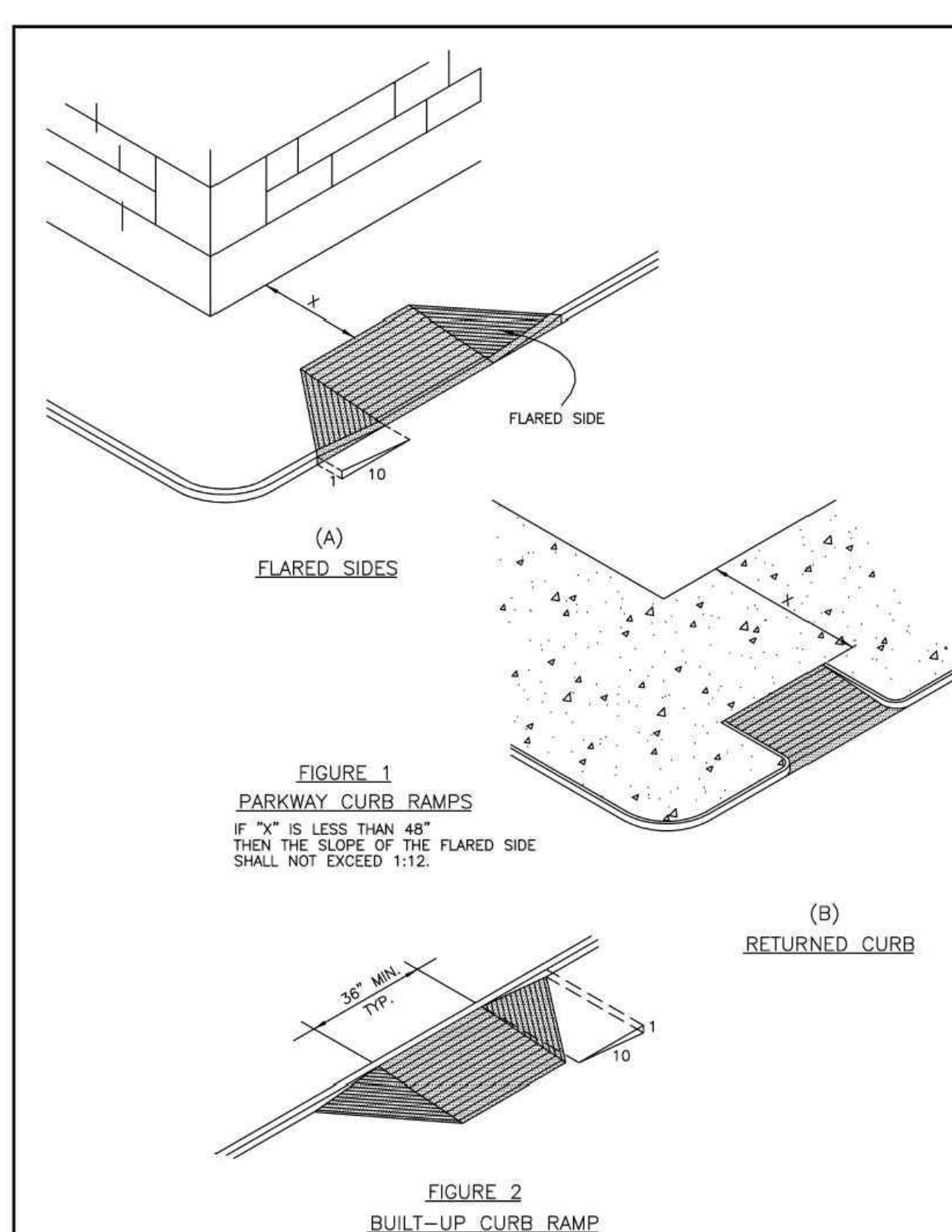


- NOTE:
1. REFER TO STANDARD SPECIFICATION ITEM 305.2 FOR ALTERNATE REINFORCEMENT.
 2. CROSS SLOPE OF SIDEWALK SHALL BE $\pm 1/4"$ PER FT. MIN. TO $\pm 3/8"$ PER FT. MAX.
 3. OTHER THAN 6'-0" SIDEWALK WIDTH MAY BE SPECIFIED BY OWNER.
 4. SIDEWALK SHALL BE CLASS "A" CONCRETE UNLESS OTHERWISE SPECIFIED BY OWNER.
 5. ALL HONEYCOMB IN BACK OF CURB TO BE TROWEL-PLASTERED BEFORE POURING SIDEWALK.
 6. LUG MAY BE FORMED BY SHAPING SUBGRADE TO APPROXIMATE DIMENSIONS SHOWN.

REINFORCED CONCRETE SIDEWALKS

JOINTS AND SPACING

North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE
	305.2
DATE	STANDARD DRAWING NO.
OCT. '04	2170




CURB RAMPS

North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE
	303.5.4.
DATE	STANDARD DRAWING NO.
OCT. '04	2125A

- GENERAL REQUIREMENTS:
- CURB RAMPS SHALL BE CONSTRUCTED AS PER THE REQUIREMENTS AND SPECIFICATIONS OF THE TEXAS ACCESSIBILITY STANDARDS AND THE ADA & ABA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES. (FEDERAL REGISTER/ VOL. 69, NO. 141, FRIDAY, JULY 23, 2004)
- LOCATION:
- CURB RAMPS UNDER THESE PROVISIONS, SHALL BE WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB.
- SLOPE:
- SLOPES ON CURB RAMPS SHALL BE MEASURED AS FOLLOWS: (Y:X = VERTICAL:HORIZONTAL)
- A) TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
- B) MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20.
- C) THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHALL BE 1:12. THE MAXIMUM RISE FOR ANY RUN SHALL BE 30" (760 MM).
- CURB RAMPS AND RAMPS TO BE CONSTRUCTED ON EXISTING SITES OR IN EXISTING BUILDINGS OR FACILITIES MAY HAVE SLOPES AND RISES IF SPACE LIMITATIONS PROHIBIT THE USE OF A 1:12 SLOPE OR LESS, AS FOLLOWS:
1. A SLOPE BETWEEN 1:10 AND 1:12 IS ALLOWED FOR A MAXIMUM RISE OF 6".
 2. A SLOPE BETWEEN 1:8 AND 1:10 IS ALLOWED FOR A MAXIMUM OF 3".
 - A SLOPE STEEPER THAN 1:8 IS NOT ALLOWED.
- RAMP WIDTH:
- THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 36" EXCLUSIVE OF FLARED SIDES.
- SURFACE:
- SURFACES OF CURB RAMPS, SHALL BE STABLE, FIRM, AND SLIP RESISTANT. SURFACE TEXTURES SHALL CONSIST OF EXPOSED CRUSHED STONE AGGREGATE, ROUGHENED CONCRETE, RUBBER, RAISED ABRASIVE STRIPS, OR GROOVES. EXTENDING THE FULL WIDTH AND DEPTH OF THE CURB RAMP. SURFACES THAT ARE RAISED, ETCHED, OR GROOVED IN A WAY THAT WOULD ALLOW WATER TO ACCUMULATE ARE PROHIBITED. FOR PURPOSES OF WARNING, THE FULL WIDTH AND DEPTH OF CURB RAMPS SHALL HAVE A LIGHT REFLECTIVE VALUE AND TEXTURE THAT SIGNIFICANTLY CONTRASTS WITH THAT OF ADJOINING PEDESTRIAN ROUTES.
- SIDES OF CURB RAMPS:
- IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS OR GUARDRAILS, IT SHALL HAVE FLARED SIDES. THE MAXIMUM SLOPE OF THE FLARE SHALL BE 1:10 (SEE FIG. 1 (A)). CURB RAMPS WITH RETURNED CURBS MAY BE USED WHERE PEDESTRIANS WOULD NOT WALK ACROSS THE RAMP. (SEE FIG. 1 (B)).
- BUILT-UP RAMPS:
- BUILT-UP CURB RAMPS SHALL BE LOCATED SO THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES (SEE FIG. 2).
- OBSTRUCTIONS:
- CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.
- LOCATION AT MARKED CROSSINGS:
- CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
- DIAGONAL CURB RAMPS:
- IF DIAGONAL (OR CORNER TYPE) CURB RAMPS HAVE RETURNED CURBS OR OTHER WELL DEFINED EDGES, SUCH EDGES SHALL BE PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE 48" (1220 MM) MINIMUM. IF DIAGONAL CURB RAMPS ARE PROVIDED AT MARKED CROSSINGS, THE 48" (1220 MM) CLEAR SPACE SHALL BE WITHIN THE MARKINGS. IF DIAGONAL CURB RAMPS HAVE FLARED SIDES, THEY SHALL ALSO HAVE AT LEAST A 24" (610 MM) LONG SEGMENT OF STRAIGHT CURB LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING. ANY RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES AND A LEVEL AREA AT LEAST 48" (1220 MM) LONG BETWEEN THE CURB RAMPS IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS.
- CONSTRUCTION:
- (A) THE CONTRACTOR SHALL SAWCUT, REMOVE AND DISPOSE OFF-SITE THE REQUIRED EXISTING CONCRETE SIDEWALK, CURB AND GUTTER TO CONSTRUCT THE PROPOSED RAMPS.
- (B) CONCRETE SIDEWALKS AND RAMPS SHALL BE MINIMUM 4" THICK, 4000 PSI, 5 SACK CONCRETE, REINFORCED WITH #3 BARS AT 14" CENTERS BOTH WAYS, PLACED OVER A 2" THICK SAND CUSHION EMBEDMENT.
- (C) THE CONTRACTOR SHALL USE 1" PREMOULDED EXPANSION JOINT MATERIAL BETWEEN THE PROPOSED SIDEWALKS AND RAMPS AT THE BACK OF CURBS, AND AT JOINTS AT NO EXTRA PAY.
- (D) DUMMY JOINT REQUIRED EVERY 4' IN 4' WIDE SIDEWALKS AND EVERY 5' IN 6' WIDE SIDEWALK.

CURB RAMPS

North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE
	303.5.4.
DATE	STANDARD DRAWING NO.
OCT. '04	2125B

Please update details to NCTCOG latest details (Aug 2023)

811

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Call before you dig.

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NOTICE:

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303.462.1100

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LOIS ROAD ESTATES - FILING NOS. 1 & 2
CITY OF SANGER, COUNTY OF DENTON,
STATE OF TEXAS

CONSTRUCTION DETAILS
STREET DETAILS

CLIENT

DATE 4/7/2025

1st SUBMITTAL TO JURISDICTION 4/7/2025 - RMB

2nd SUBMITTAL TO JURISDICTION 5/17/2025 - RMB

REVISIONS

DR. TN CH. KB

P.M. JF

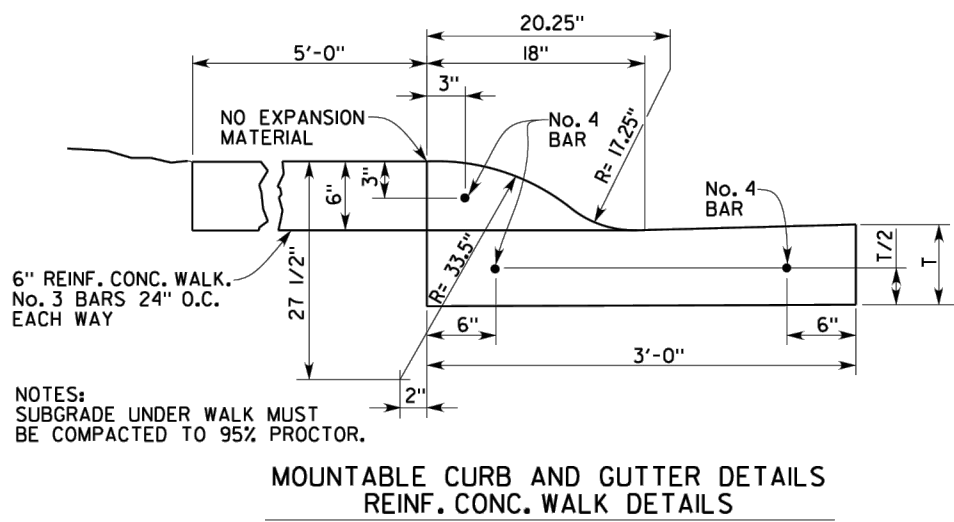
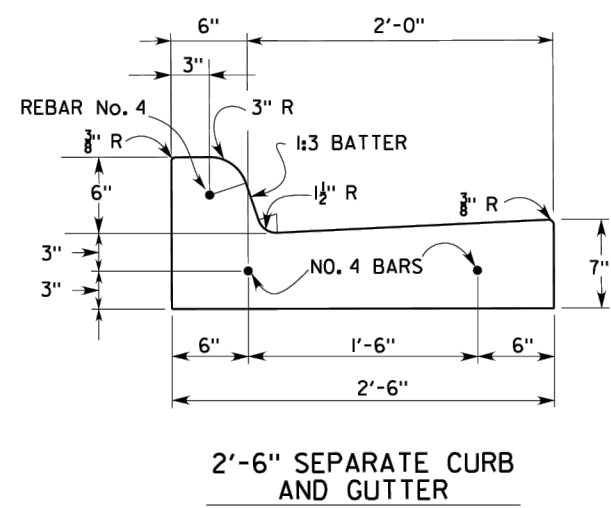
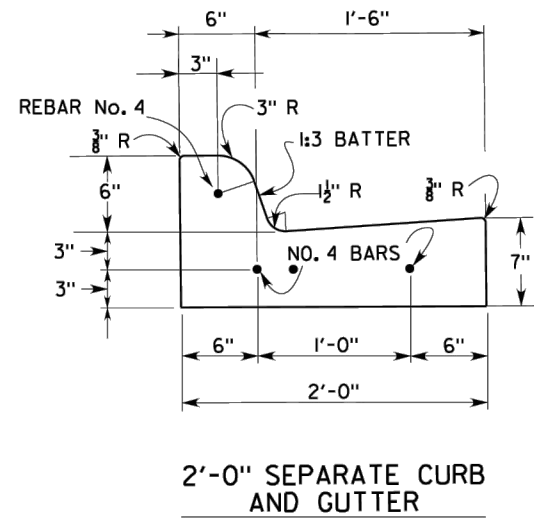
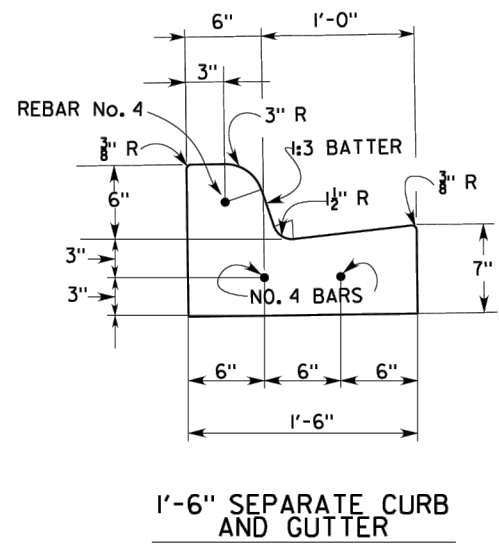
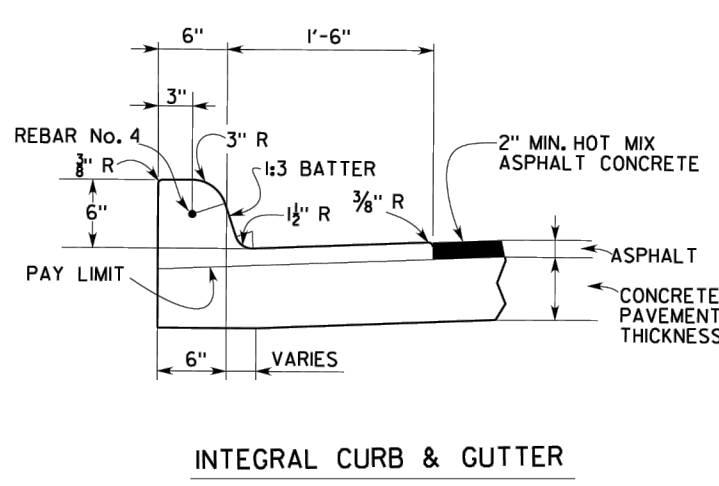
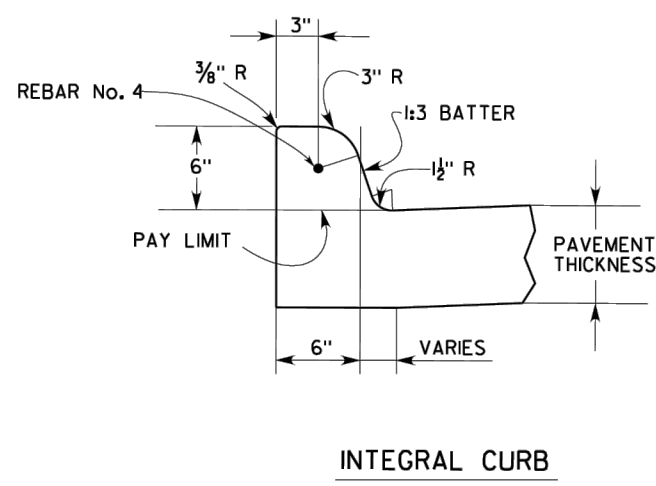
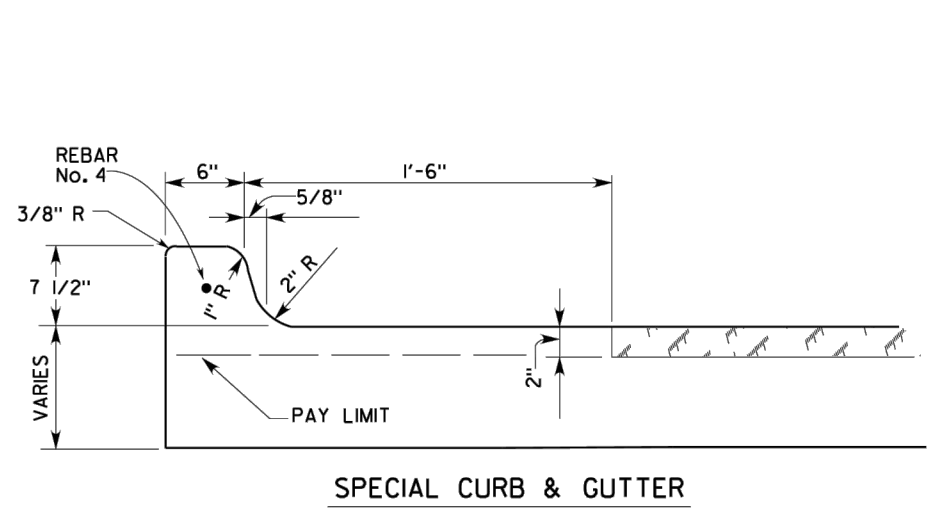
JOB 24007256

SHEET NO.

91

CAD FILE: 24007256-PH-DTLS.DWG

K:\24007256\DWG\PLAN\DETAILS\CONSTRUCTION\WALK.DWG (1) 3/13/2025 11:48 AM TDPB KESDA



NOTES:

1. ALL REINFORCEMENT STEEL SHALL BE MINIMUM No. 4 BARS, EXCEPT FOR CBD AS SHOWN ON SHEET No. 100BA.
2. SEPARATE CURB WITH 12" OR 18" GUTTER SHALL BE USED ONLY AS REPLACEMENT TO MATCH EXISTING CONDITIONS
3. FOR CONNECTING SEPARATE CURB AND GUTTER TO AN EXISTING CONCRETE STREET, NO. 4 BARS MUST BE PLACED EVERY 24" WITH NO SEPARATE PAY ITEM.

*SEE GENERAL NOTES ON SHEET No. 1007A FOR FURTHER INFORMATION.

PAVING DETAILS	
CURB AND GUTTER	
DETAILS	
DEPARTMENT OF PUBLIC WORKS CITY OF DALLAS, TEXAS	
DRAWINGS NOT TO SCALE REVISED: DECEMBER 2021	SHEET No. 1007B

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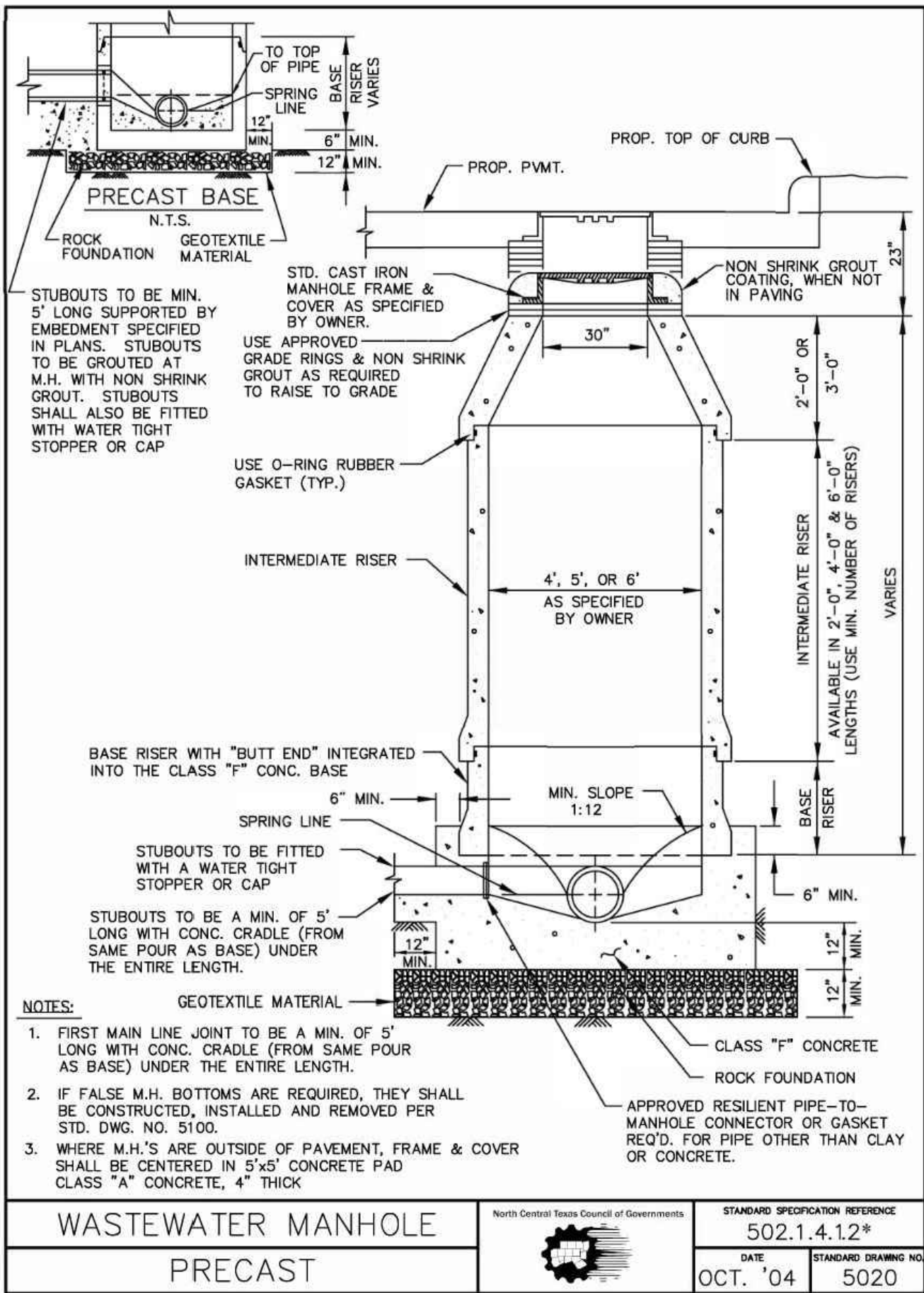
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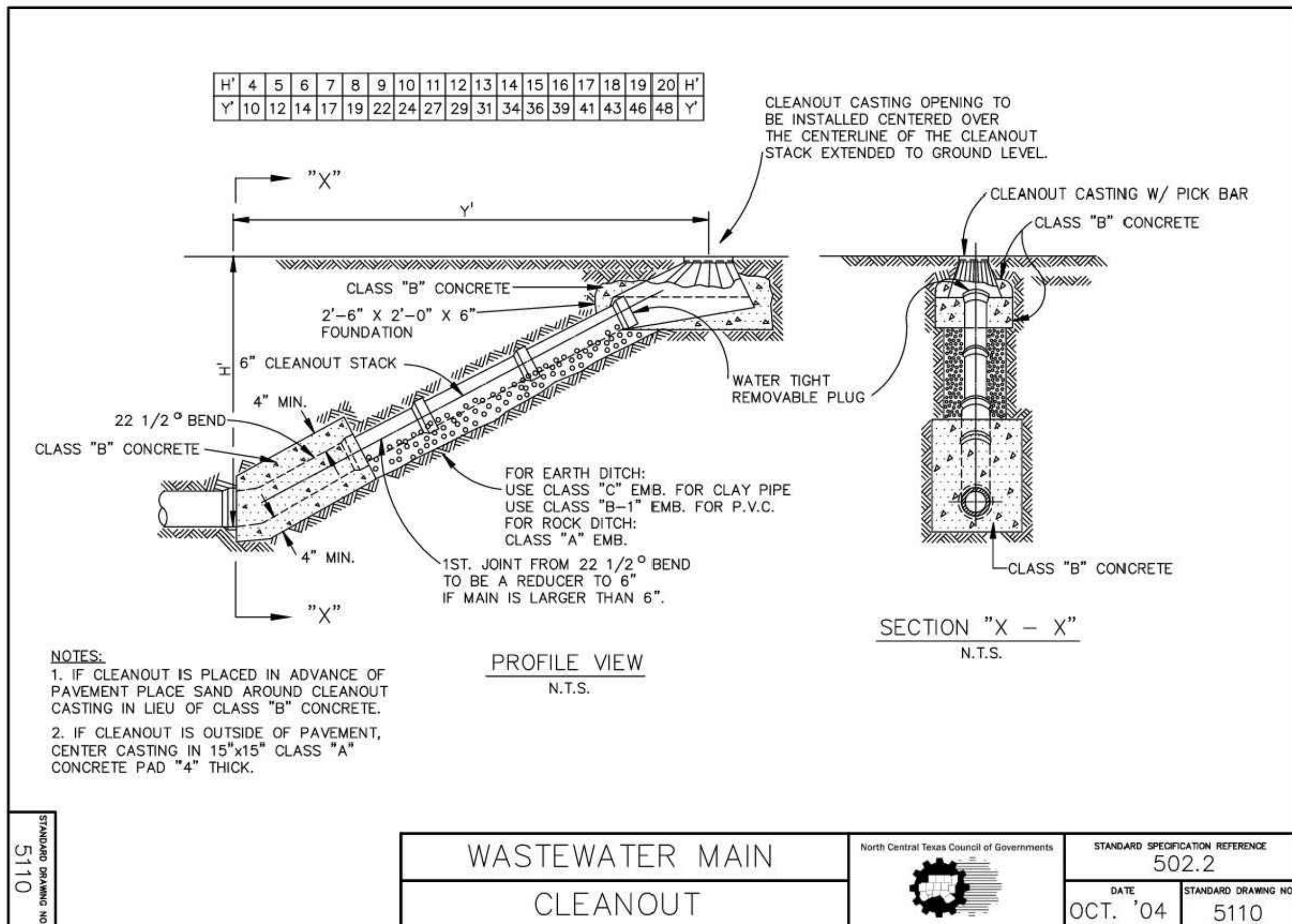
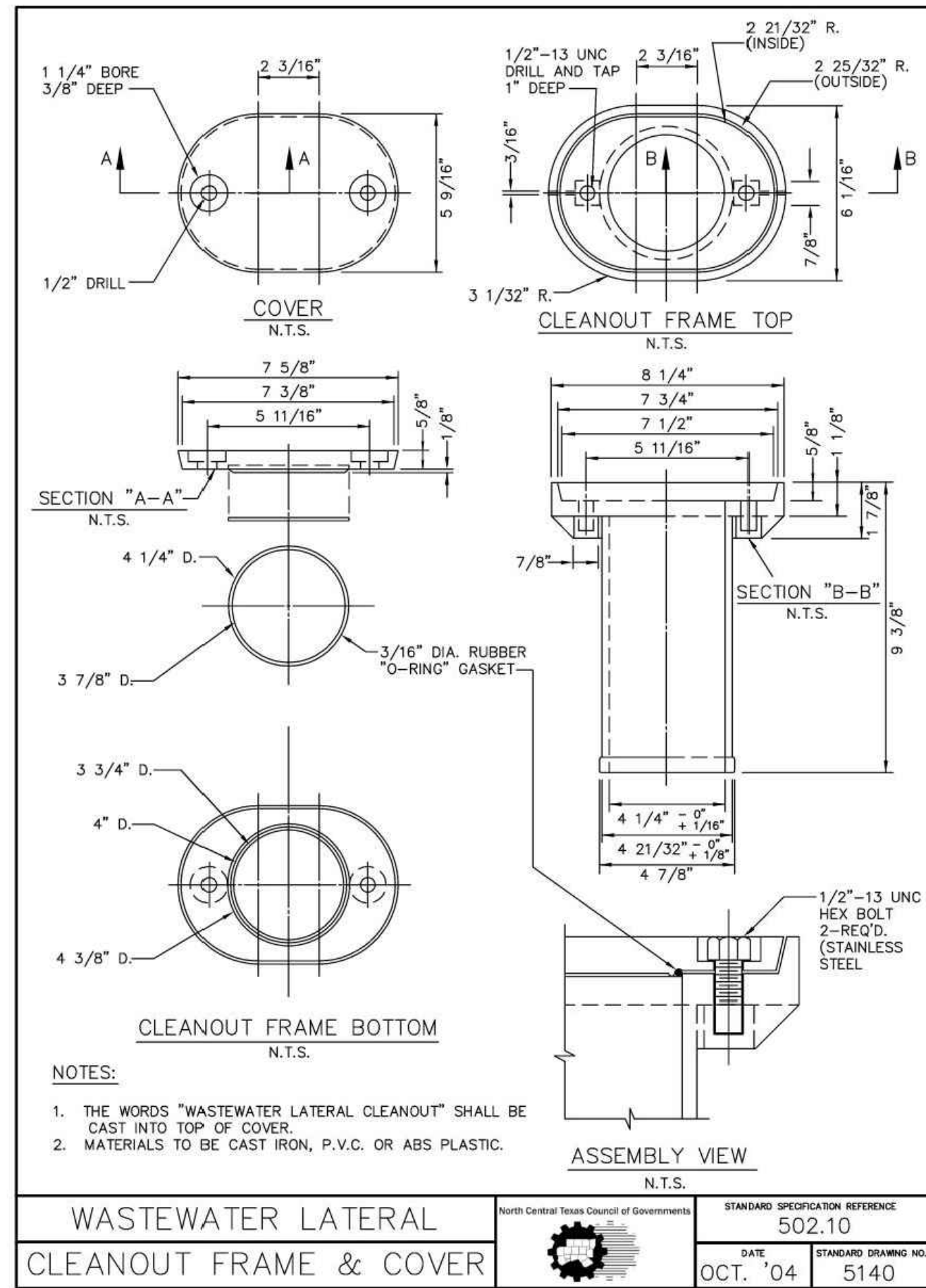
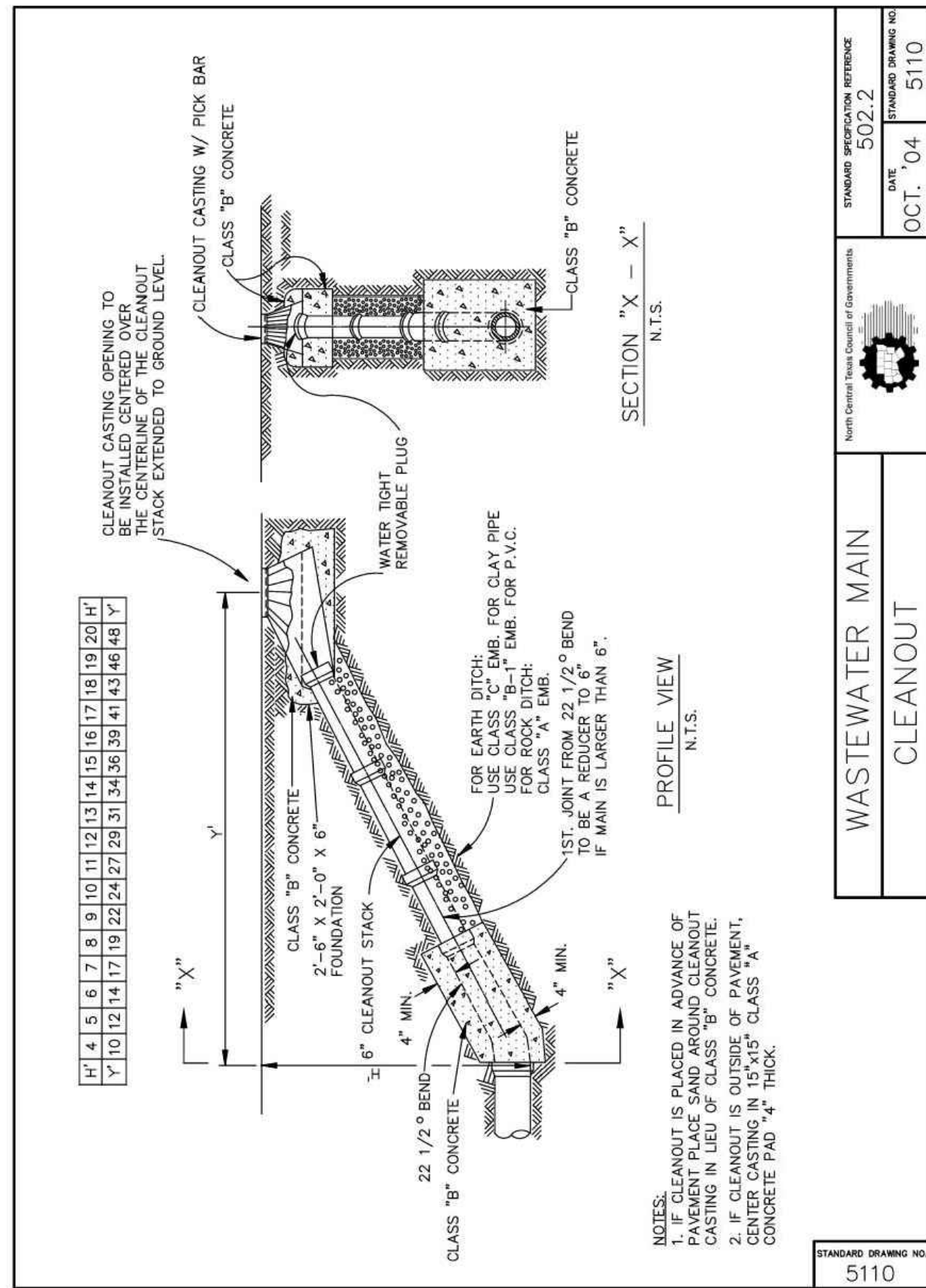
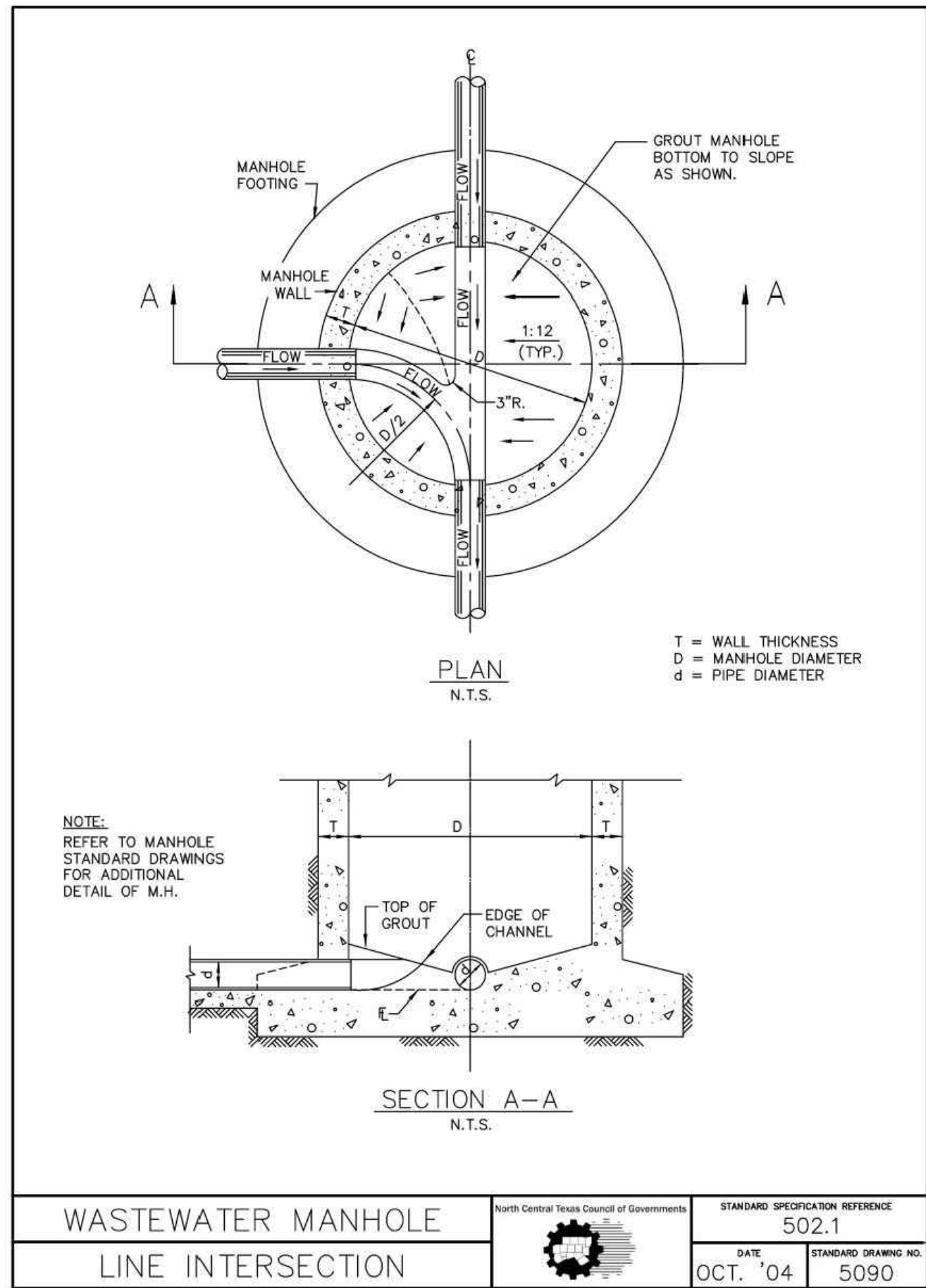
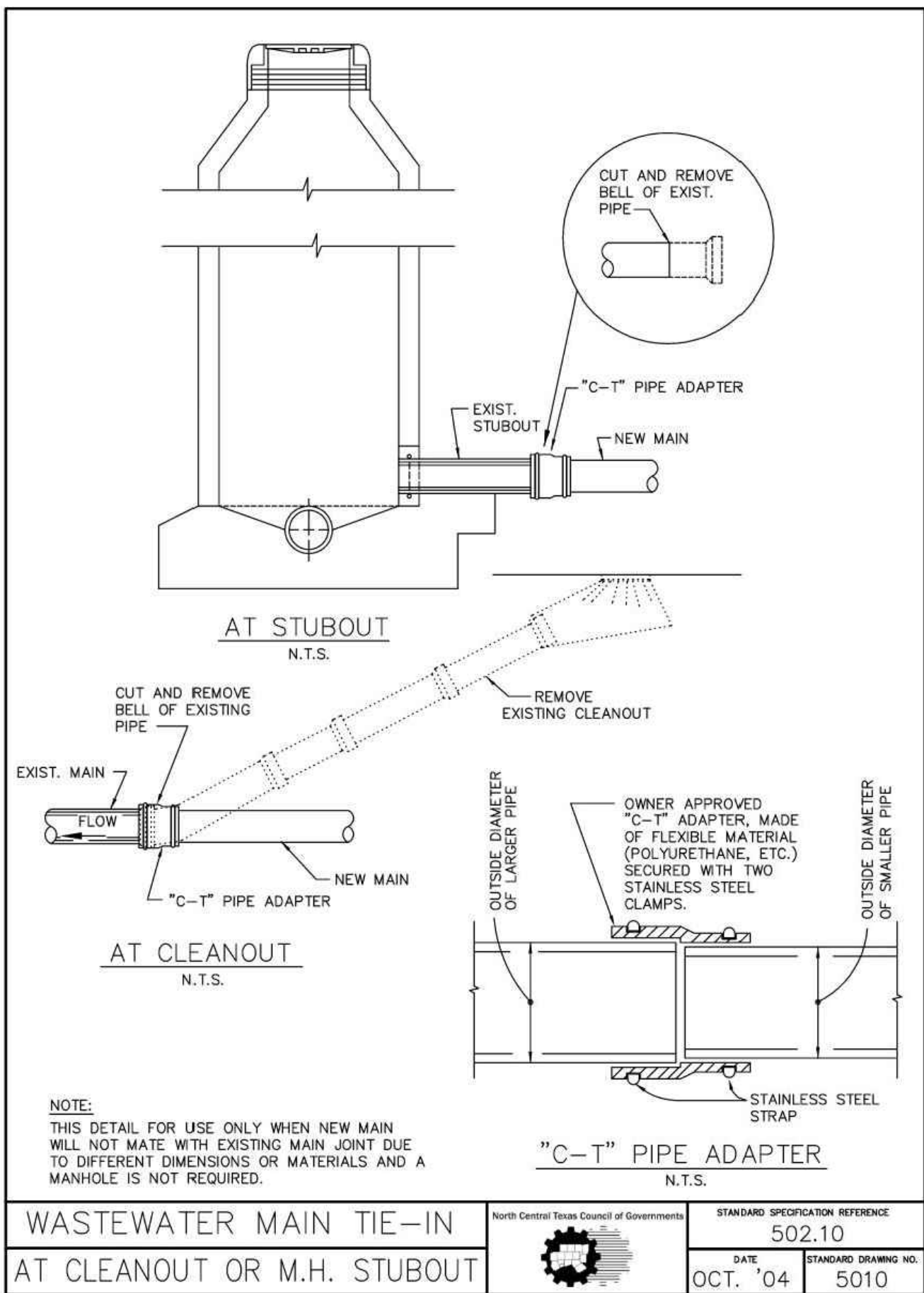
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1st SUBMITTAL TO JURISDICTION	4/7/2025 – KMB	
2nd SUBMITTAL TO JURISDICTION	5/12/2025 – KMB	
REVISIONS		
DR. TN CH. KB		
P.M. JF		
JOB 24007256		
SHEET NO. 92		

CAD FILE: 24007256-PH1-DTLS.DWG



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MICHAEL PRYOR	

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P.M.	JF		
JOB	24007256		
SHEET NO.	93		

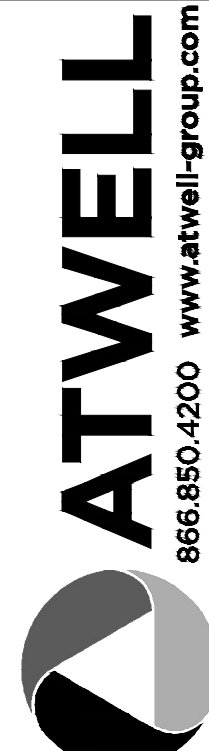


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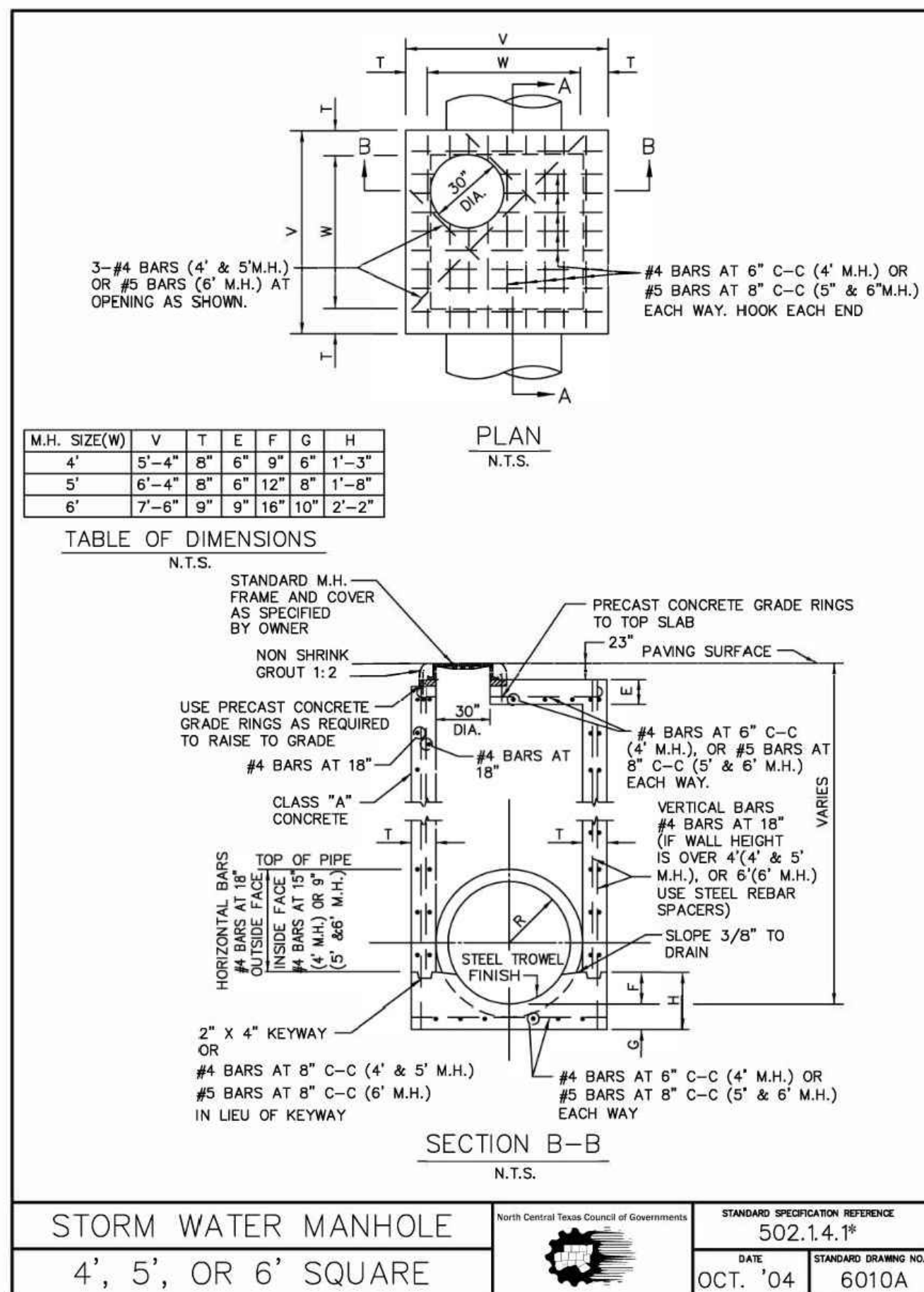
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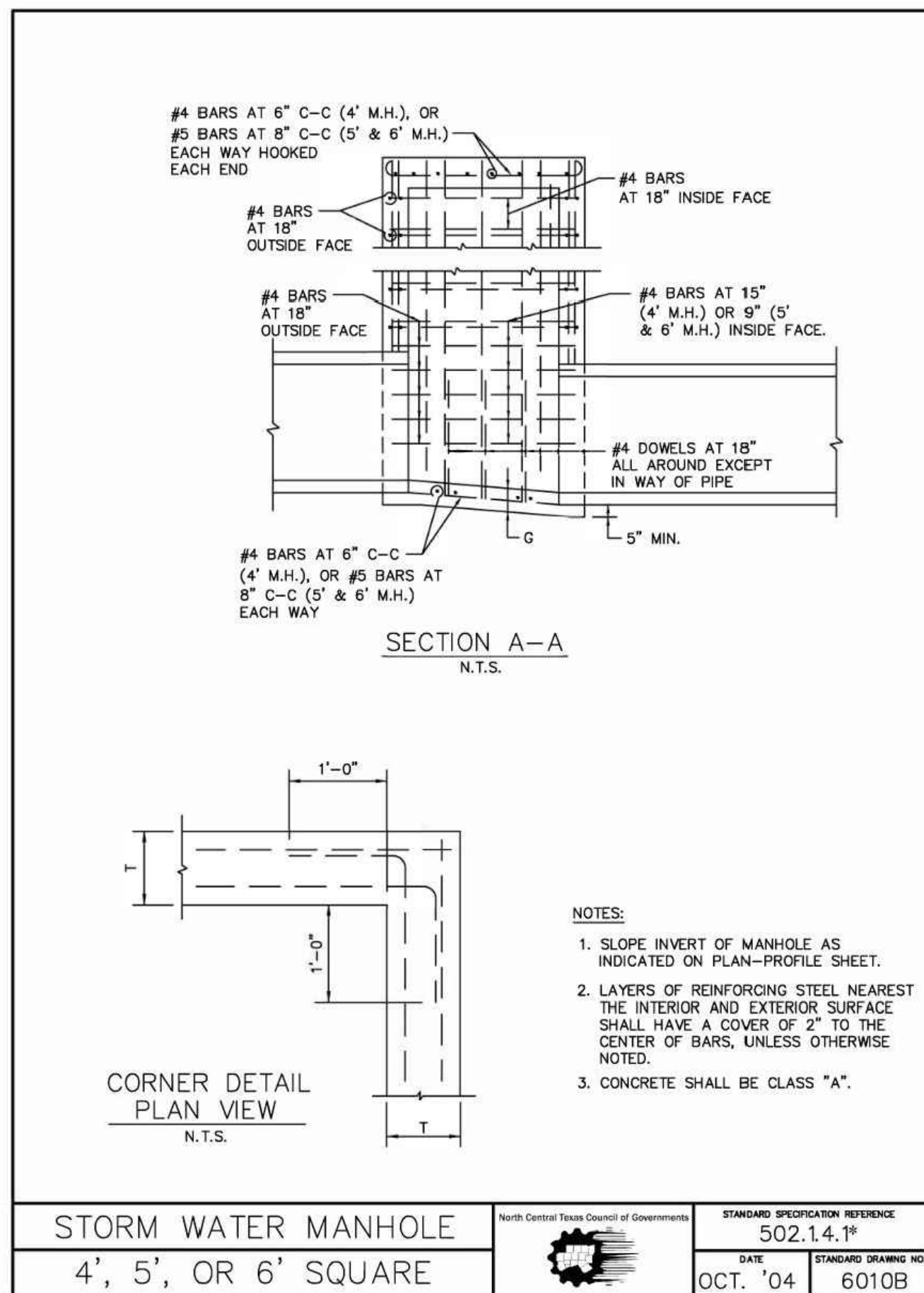
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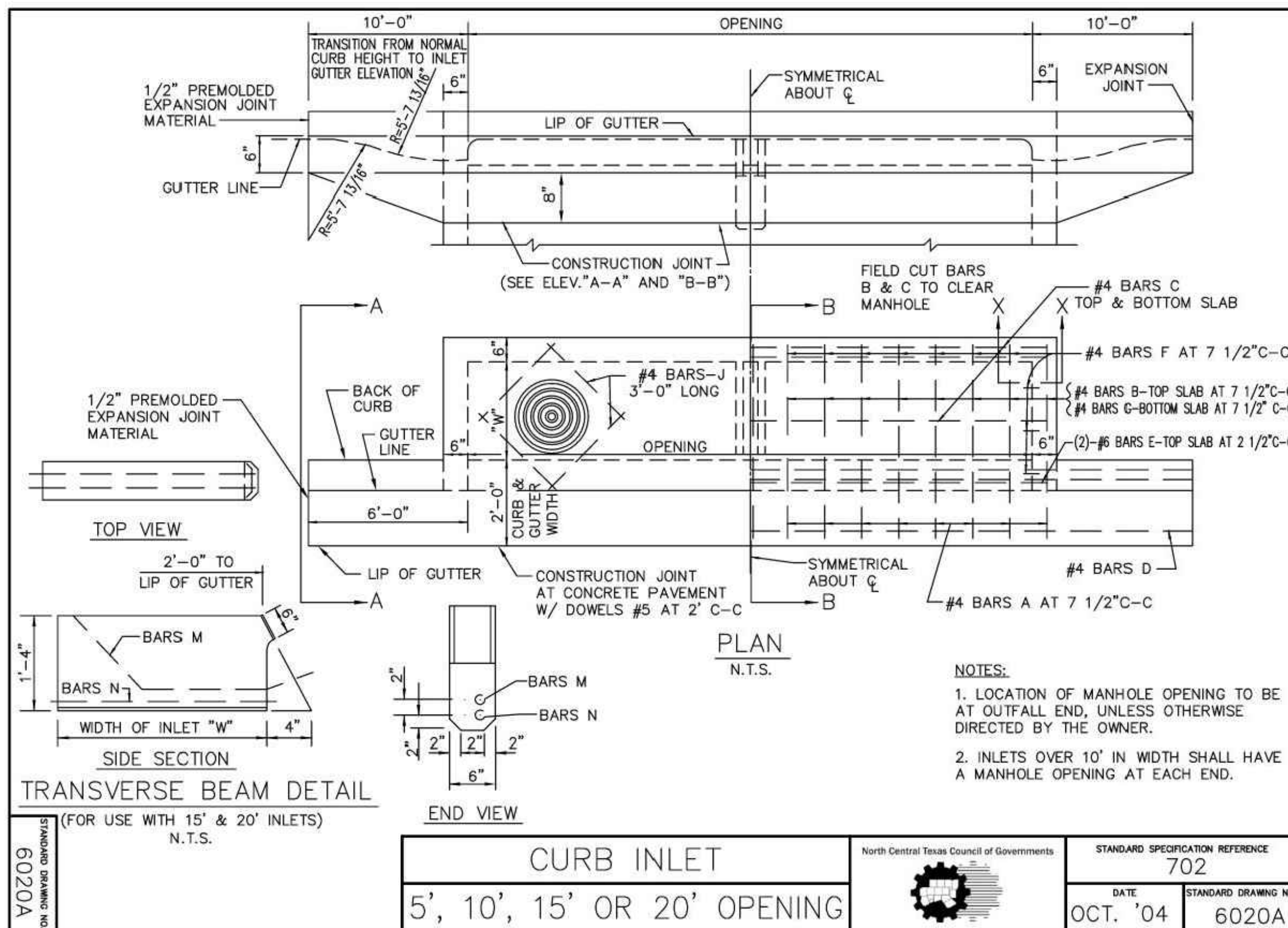
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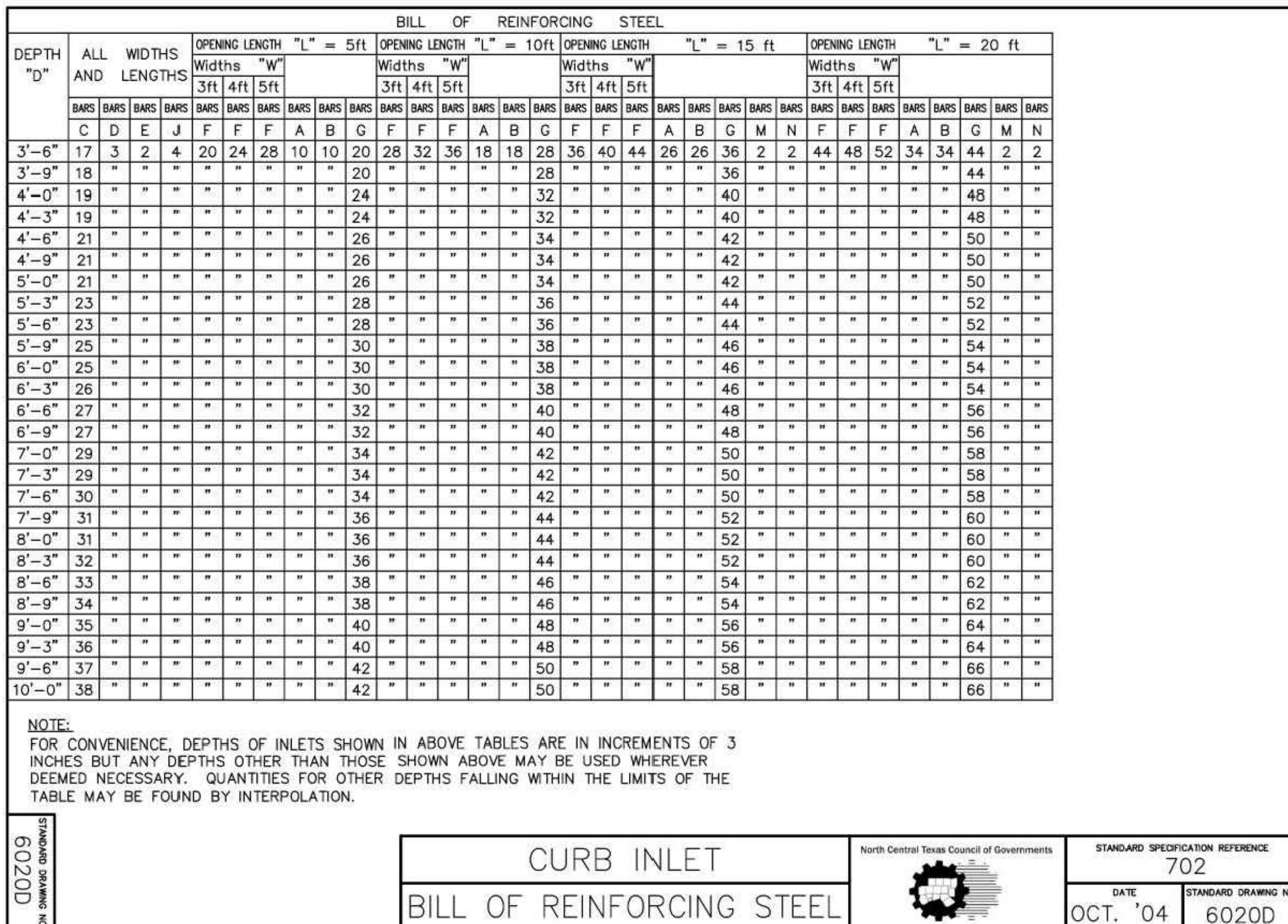
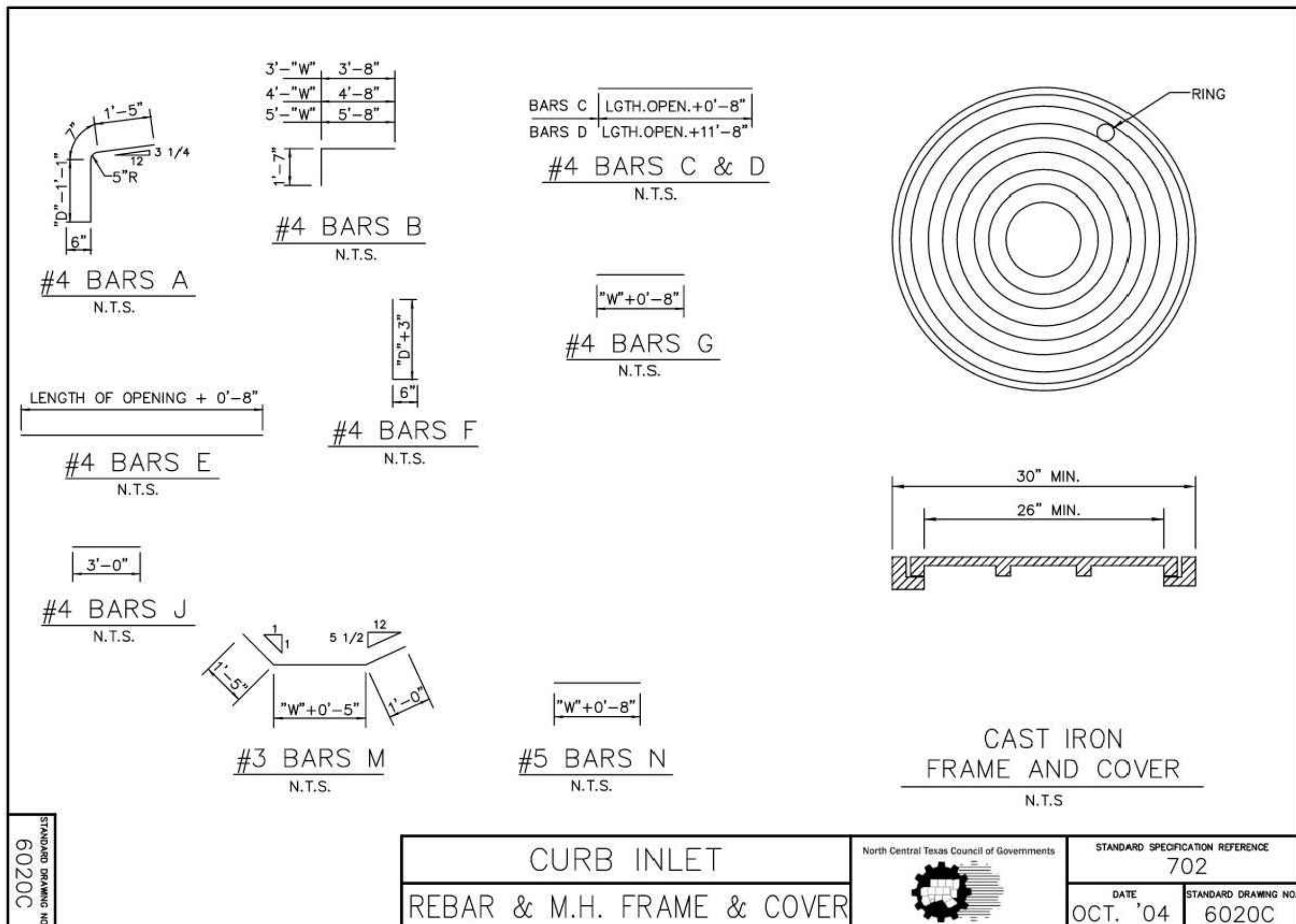
*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. Public Works Construction Standards North Central Texas, Fifth Edition.



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NOTES:
1. LOCATION OF MANHOLE OPENING TO BE AT OUTFALL END, UNLESS OTHERWISE DIRECTED BY THE OWNER.
2. INLETS OVER 10' IN WIDTH SHALL HAVE A MANHOLE OPENING AT EACH END.



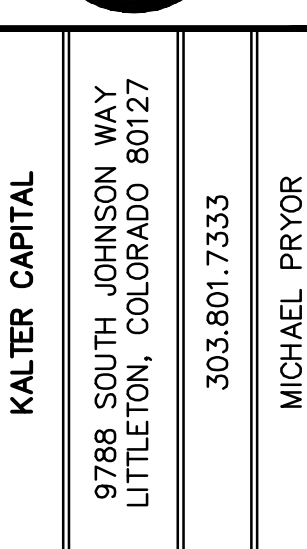
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R.	IN	CH.	KB
P.M.	JF		

OB 24007256

95

DEPTH "D"		SUMMARY OF QUANTITIES FOR CURB INLETS																															
		5'-0" OPENING								10'-0" OPENING								15'-0" OPENING								20'-0" OPENING							
		WIDTH 3'-0"				WIDTH 5'-0"				WIDTH 3'-0"				WIDTH 5'-0"				WIDTH 3'-0"				WIDTH 5'-0"				WIDTH 3'-0"				WIDTH 5'-0"			
		CONC LBS.	STEEL C.Y.	CONC LBS.	STEEL C.Y.	CONC LBS.	STEEL C.Y.	CONC LBS.	STEEL C.Y.	CONC LBS.	STEEL C.Y.	CONC LBS.	STEEL C.Y.	CONC LBS.	STEEL C.Y.	CONC LBS.	STEEL C.Y.	CONC LBS.	STEEL C.Y.	CONC LBS.	STEEL C.Y.	CONC LBS.	STEEL C.Y.	CONC LBS.	STEEL C.Y.	CONC LBS.	STEEL C.Y.	CONC LBS.	STEEL C.Y.				
3'-6"	2.62	306	2.95	332	3.28	373	4.12	479	4.64	521	5.20	564	5.69	667	6.40	721	7.10	775	7.20	846	8.11	909	9.03	976									
3'-9"	2.70	309	3.04	341	3.39	373	4.25	494	4.78	536	5.34	579	5.87	687	6.58	741	7.30	796	7.42	874	8.34	937	9.27	1010									
4'-0"	2.78	328	3.14	364	3.49	399	4.38	518	4.92	565	5.49	610	6.05	718	6.77	776	7.49	835	7.64	909	8.58	976	9.51	1046									
4'-3"	2.87	334	3.23	370	3.59	406	4.51	526	5.06	573	5.64	619	6.22	729	6.95	787	7.69	847	7.87	922	8.81	990	9.75	1061									
4'-6"	2.95	356	3.32	394	3.69	431	4.64	558	5.20	607	5.79	656	6.40	770	7.14	830	7.88	891	8.09	973	9.04	1043	9.99	1115									
4'-9"	3.03	361	3.41	410	3.79	438	4.77	566	5.34	616	5.94	665	6.57	780	7.32	841	8.07	903	8.31	986	9.27	1056	10.23	1129									
5'-0"	3.12	367	3.51	416	3.90	445	4.90	574	5.47	624	6.09	674	6.75	791	7.51	853	8.27	915	8.53	999	9.50	1070	10.47	1144									
5'-3"	3.20	383	3.60	424	4.00	465	5.03	600	5.61	652	6.23	704	6.93	827	7.69	890	8.46	955	8.76	1044	9.73	1118	10.71	1194									
5'-6"	3.28	389	3.69	430	4.10	472	5.16	608	5.75	661	6.38	713	7.11	837	7.88	901	8.66	967	8.98	1057	9.97	1131	10.95	1208									
5'-9"	3.37	405	3.78	451	4.20	495	5.29	635	5.89	690	6.53	744	7.28	874	8.07	940	8.85	1007	9.20	1102	10.20	1178	11.19	1258									
6'-0"	3.45	415	3.88	460	4.30	504	5.42	646	6.03	702	6.68	757	7.45	888	8.25	954	9.05	1022	9.42	1119	10.43	1196	11.43	1276									
6'-3"	3.53	425	3.97	470	4.41	515	5.55	661	6.17	718	6.83	773	7.63	908	8.44	975	9.24	1044	9.64	1147	10.68	1223	11.67	1305									
6'-6"	3.62	437	4.06	486	4.51	532	5.68	681	6.31	739	6.97	797	7.81	935	8.62	1005	9.43	1057	9.87	1178	10.89	1258	11.92	1340									
6'-9"	3.70	441	4.15	490	4.61	537	5.81	688	6.45	747	7.12	806	7.98	945	8.81	1015	9.63	1066	10.09	1191	11.12	1272	12.15	1355									
7'-0"	3.78	460	4.25	510	4.71	560	5.94	716	6.59	777	7.27	837	8.16	981	8.99	1053	9.82	1126	10.31	1237	11.35	1319	14.20	1404									
7'-3"	3.86	465	4.34	516	4.81	567	6.07	724	6.72	785	7.42	846	8.33	992	9.16	1065	10.02	1138	10.53	1249	11.59	1333	12.64	1418									
7'-6"	3.95	477	4.43	529	4.91	570	6.20	742	6.86	804	7.57	866	8.51	1016	9.38	1089	10.21	1163	10.75	1290	11.82	1365	12.88	1451									
7'-9"	4.03	491	4.53	544	5.02	597	6.33	762	7.00	826	7.71	890	8.67	1040	9.55	1116	10.41	1193	10.98	1313	12.05	1399	13.12	1498									
8'-0"	4.12	496	4.62	550	5.12	604	6.46	770	7.14	834	7.86	899	8.86	1051	9.73	1129	10.60	1205	11.20	1325	12.28	1412	13.36	1510									
8'-3"	4.20	504	4.71	559	5.22	613	6.59	784	7.28	849	8.01	915	9.04	1069	9.92	1149	10.80	1228	11.42	1353	12.51	1440	13.60	1529									
8'-6"	4.28	519	4.80	576	5.32	632	6.71	804	7.42	871	8.16	938	9.21	1107	10.10	1176	10.99	1257	11.64	1385	12.74	1474	13.84	1565									
8'-9"	4.37	528	4.90	586	5.42	643	6.84	819	7.56	886	8.31	954	9.39	1119	10.29	1199	11.18	1280	11.87	1410	12.97	1500	14.08	1592									
9'-0"	4.45	545	4.99	605	5.53	664	6.97	842	7.70	912	8.46	982	9.56	1148	10.47	1231	11.38	1313	12.09	1447	13.21	1539	14.32	1631									
9'-3"	4.53	554	5.08	614	5.63	674	7.10	858	7.84	929	8.60	996	9.74	1169	10.66	1252	11.57	1335	12.31	1474	13.44	1563	14.56	1660									
9'-6"	4.62	568	5.17	630	5.73	692	7.23	878	7.97	950	8.75	1022	9.92	1195	10.84	1280	11.77	1365	12.53	1505	13.67	1600	14.80	1696									
10'-0"	4.78	582	5.36	645	5.93	708	7.49	900	8.11	974	9.05	1048	10.27	1227	11.21	1312	12.16	1399	12.98	1546	14.13	1642	15.29	1739									

NOTE:
FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.

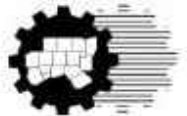
PROJECT NO. 6020E

DATE 01/01/2025

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SUMMARY OF QUANTITIES

North Central Texas Council of Governments



STANDARD SPECIFICATION REFERENCE
702

DATE
OCT. '04

STANDARD DRAWING NO.
6020E



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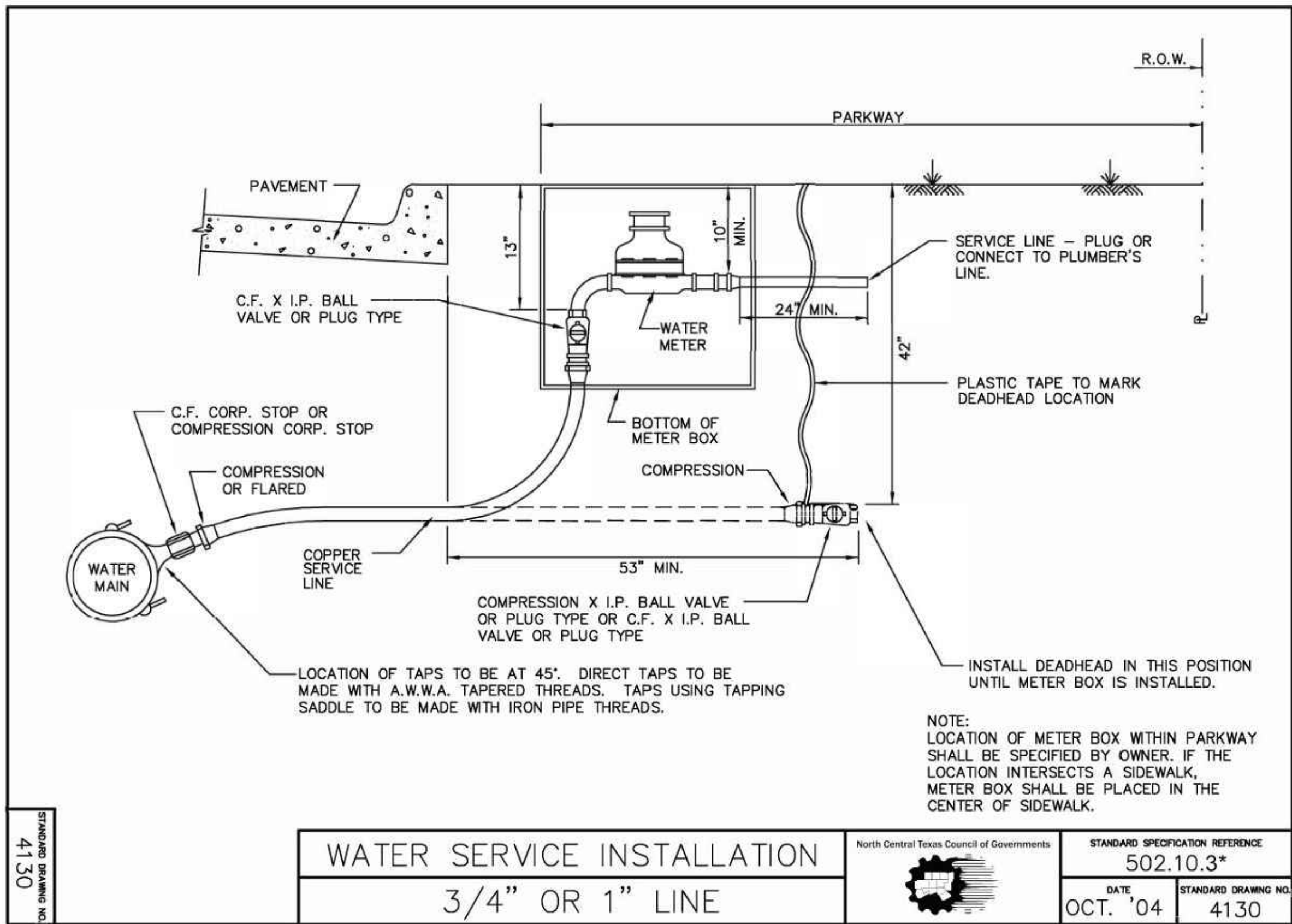
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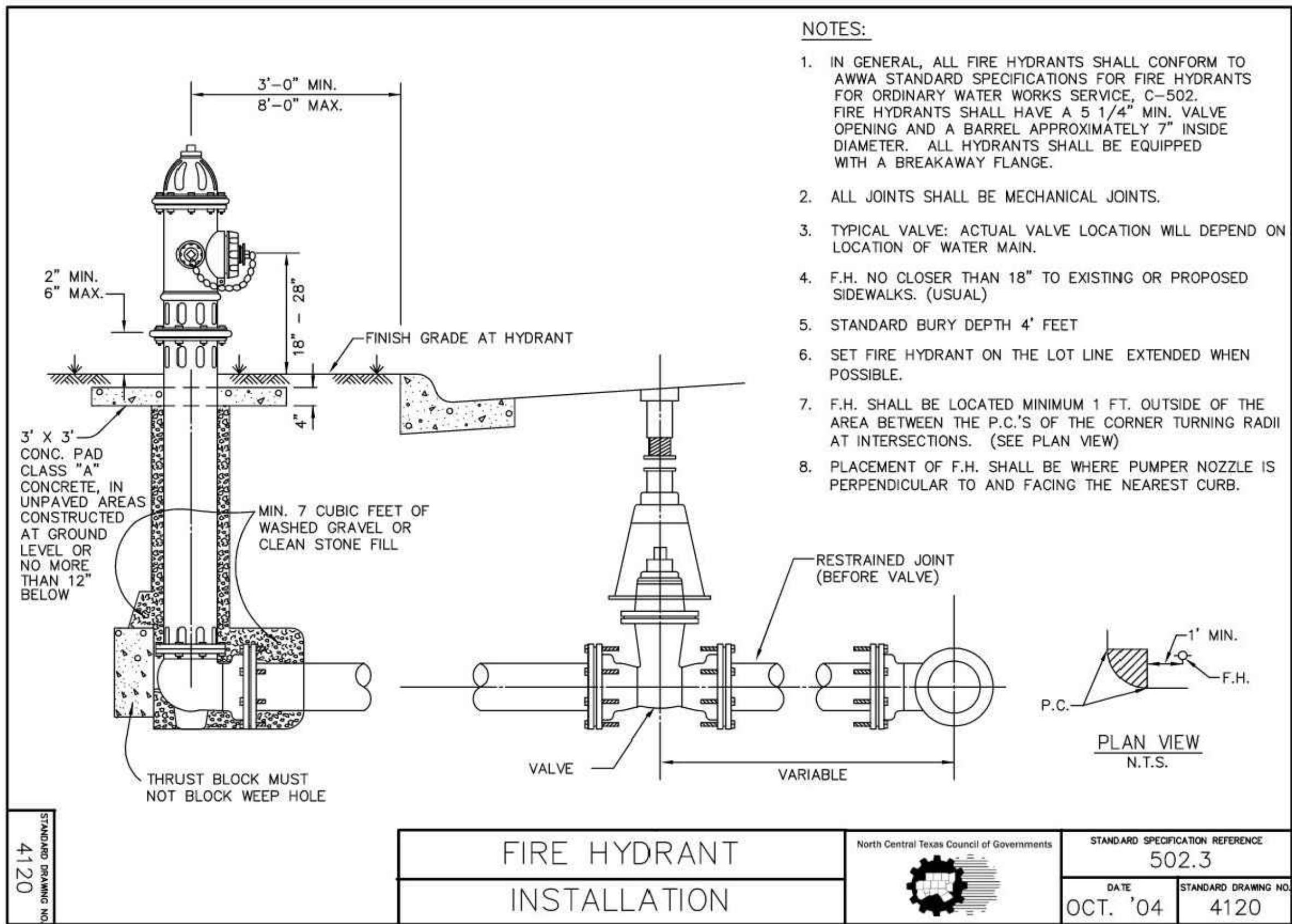
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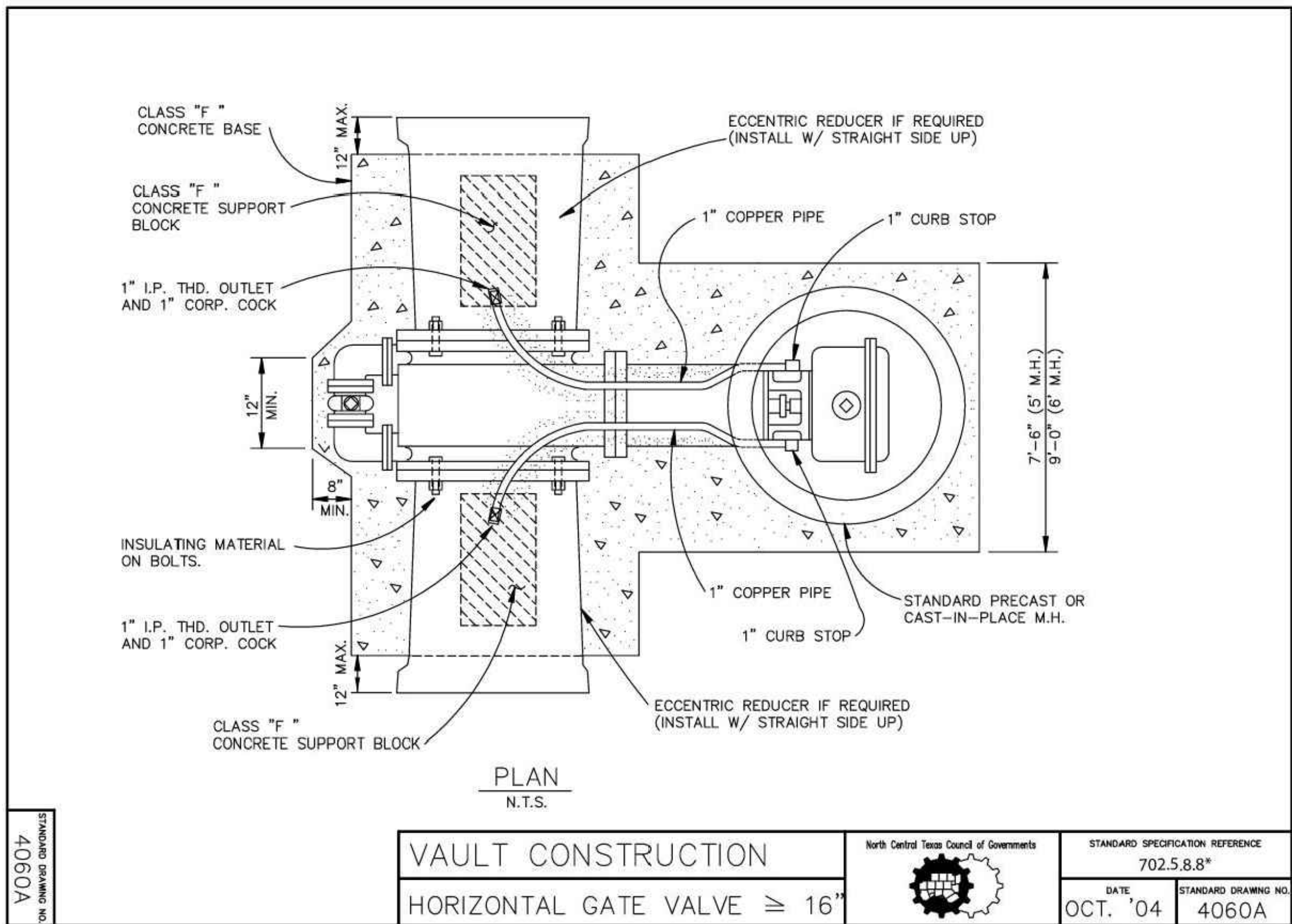
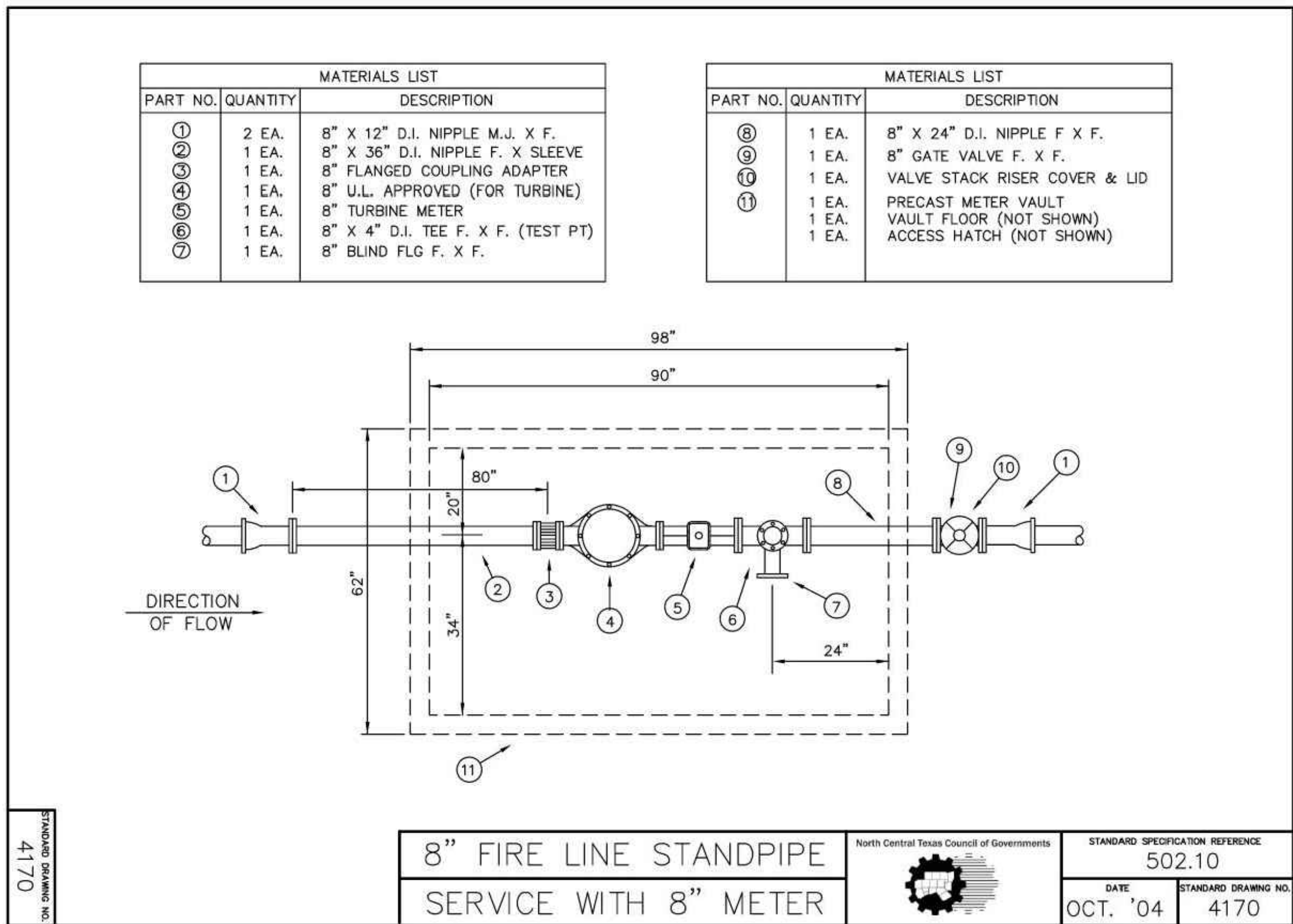
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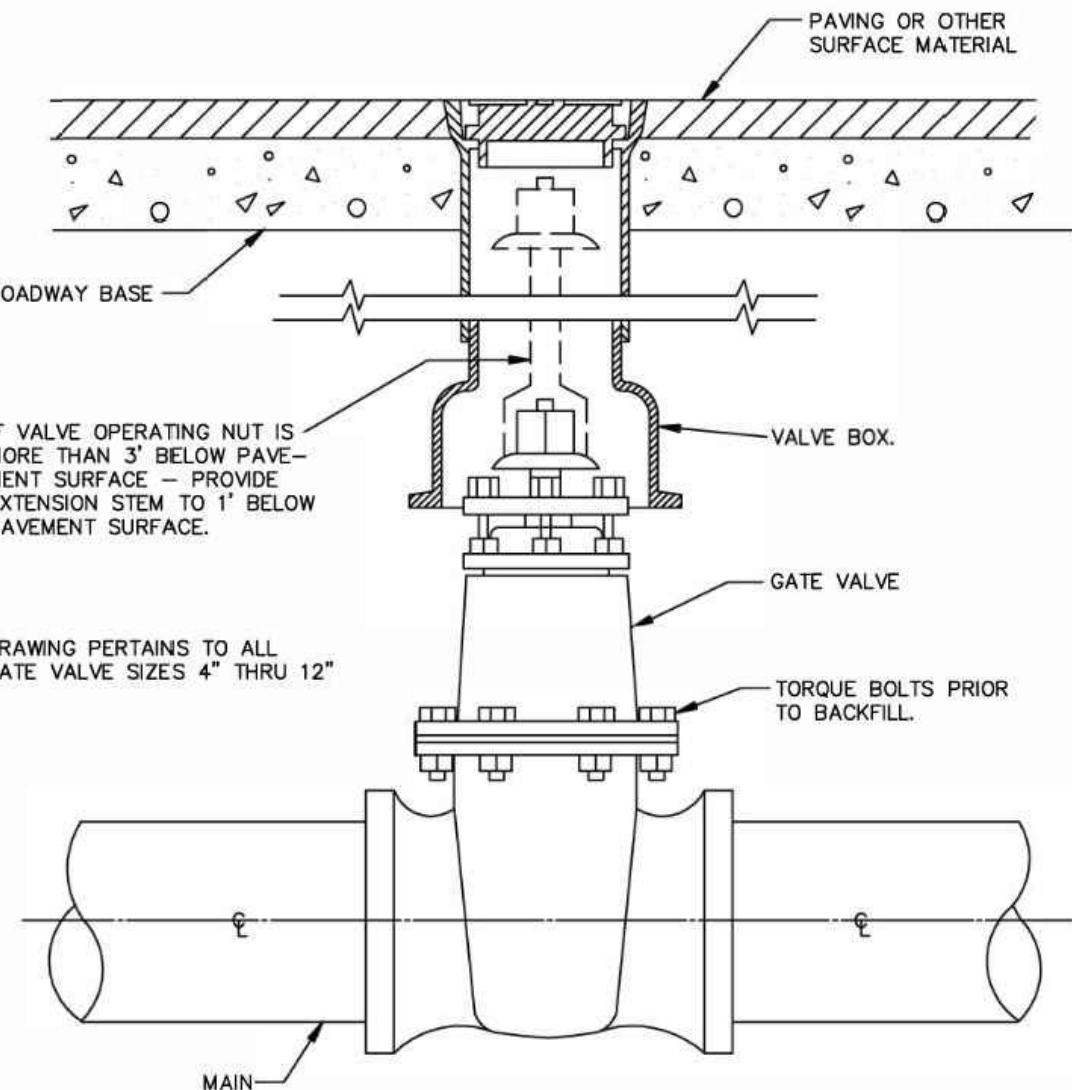
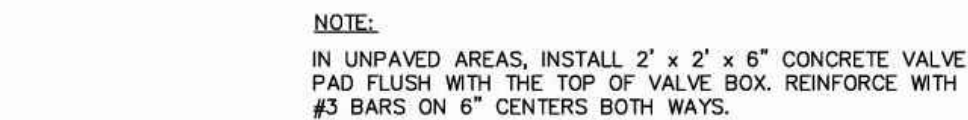
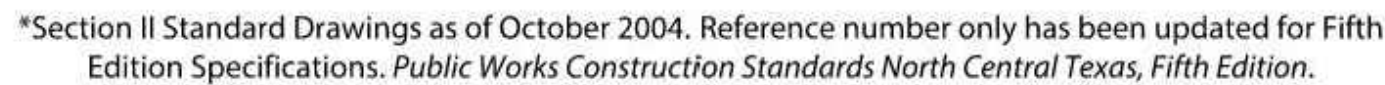


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WATER DETAIL S

DATE 4/7/2025

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REVISIONS

10. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

100

1. *Journal of the American Medical Association*, 2000; 283: 2689-2693.

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1. *Journal of the American Medical Association*, 2000; 283: 2689-2693.

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1. *Journal of the American Medical Association*, 2000; 283: 2689-2693.

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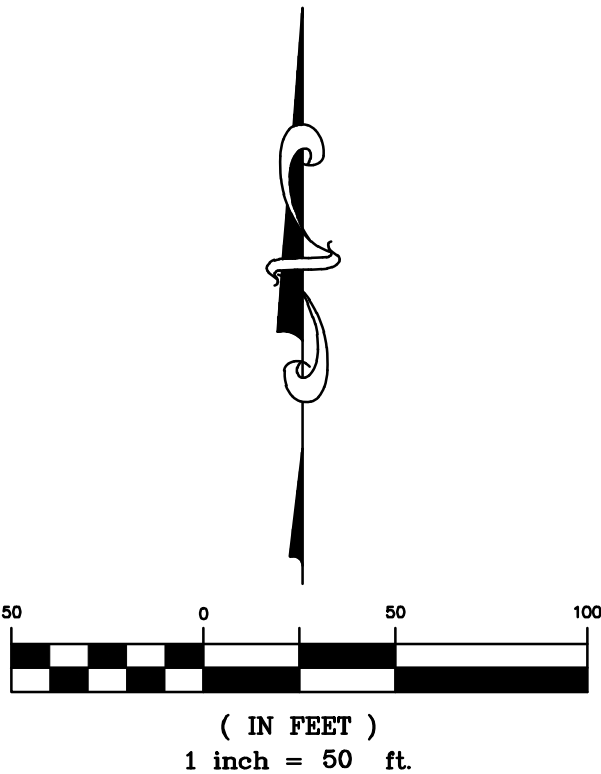
SHEET NO.

98



KEYMAP
1"=750'

LEGEND	
	PROPERTY BOUNDARY
	PROPOSED RIGHT-OF-WAY
	EXISTING RIGHT-OF-WAY
	EXISTING SECTION LINE
	PROPOSED EASEMENT
	EXISTING EASEMENT
	PROPOSED CONTOURS
	EXISTING CONTOURS
	LOC
	LOD
	SF
	DD
	SP
	SB
	CWM
	SCE
	ST
	IP
	LIMITS OF DISTURBANCE
	SILT FENCE
	DIVERSION DITCH
	STOCK PILE
	SEDIMENT BASIN
	CONCRETE WASTE MANAGEMENT
	STABILIZED CONSTRUCTION EXIT
	SEDIMENT TRAP
	INLET PROTECTION



BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL ZONE, NAVD 88.

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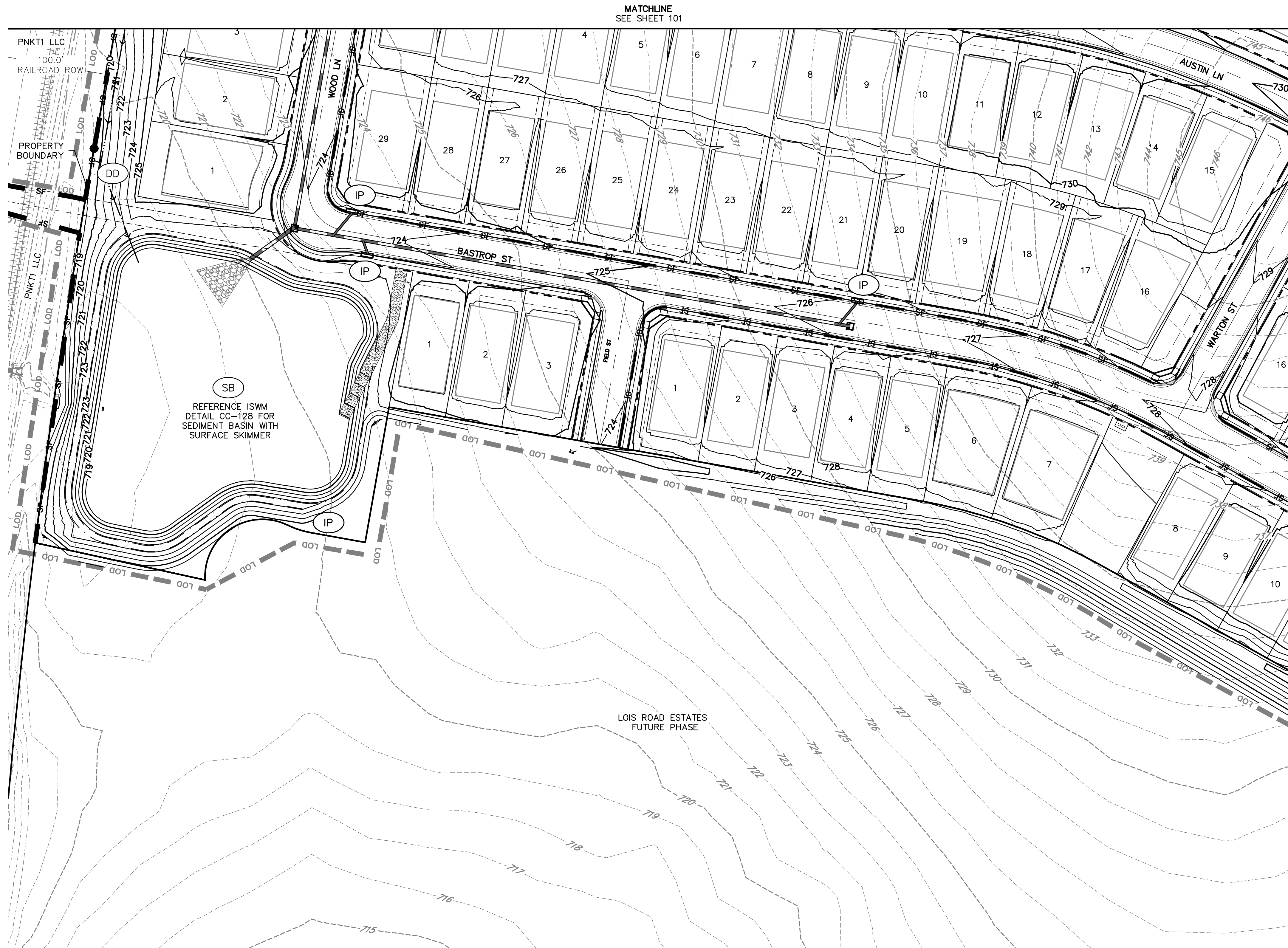
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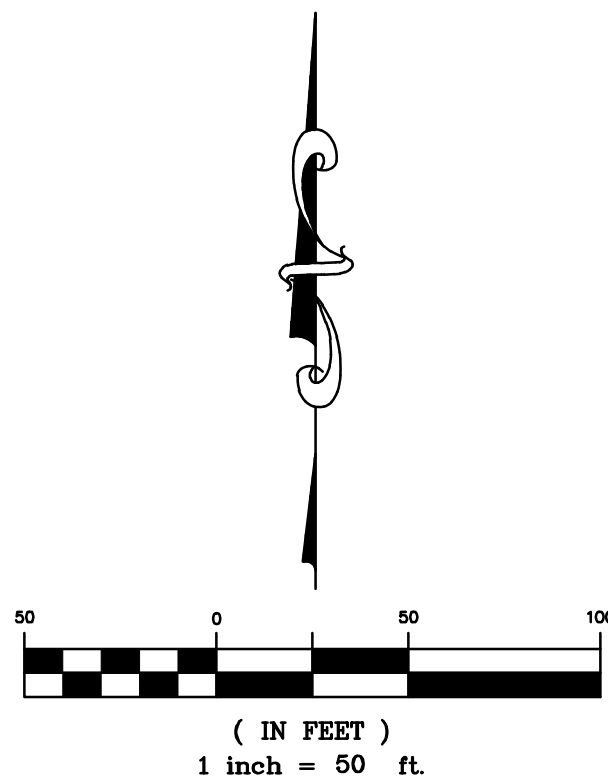
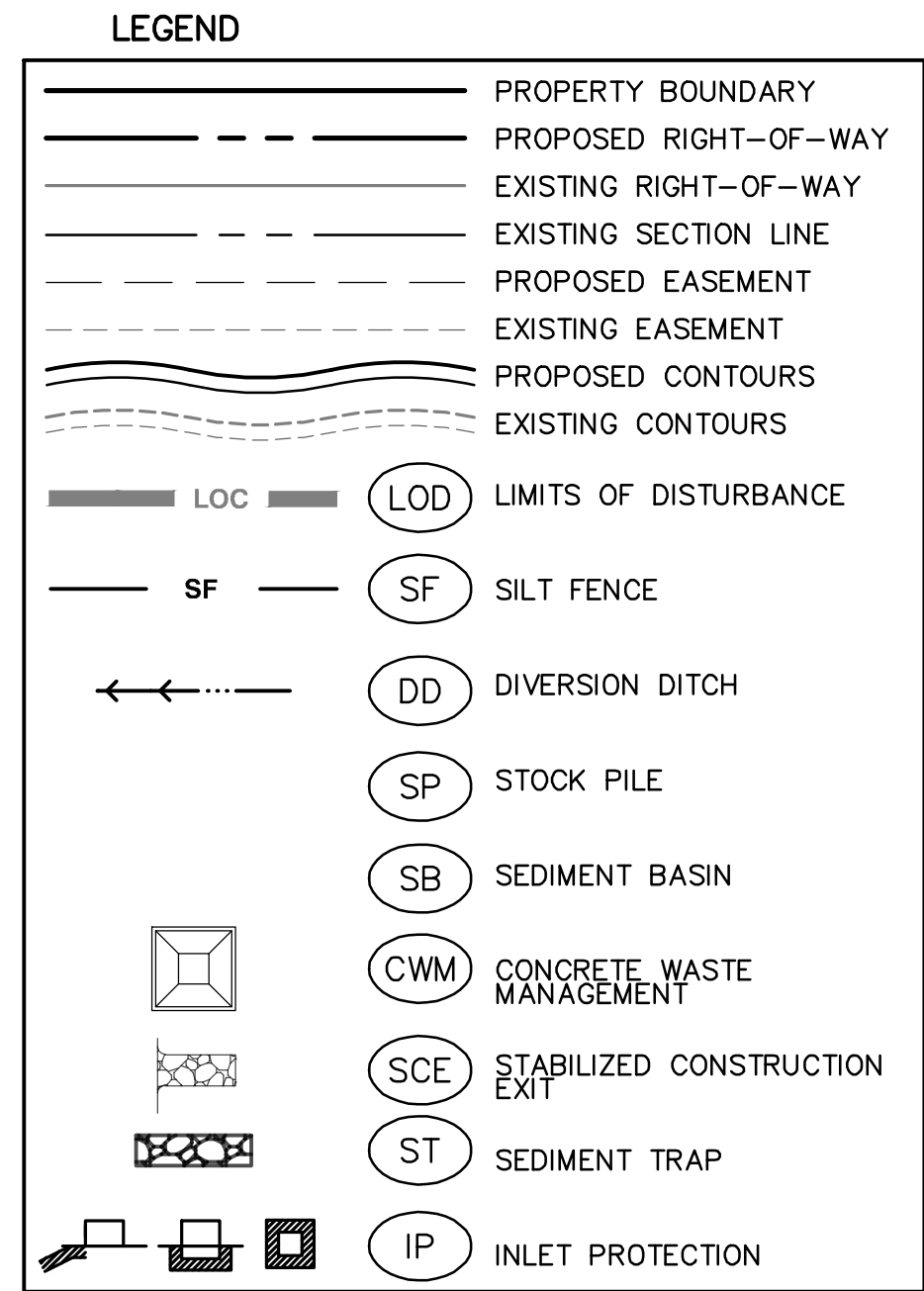
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303.462.1100

CLIENT	KALTER CAPITAL	KALTER CAPITAL
	LOIS ROAD ESTATES - FILING NOS. 1 & 2 CITY OF SANGER, COUNTY OF DENTON, STATE OF TEXAS	STORM WATER POLLUTION PREVENTION PLAN SWPPP-3
DATE	4/7/2025	
1st SUBMITTAL TO JURISDICTION	4/7/2025 - KMB	
2nd SUBMITTAL TO JURISDICTION	5/12/2025 - KMB	
REVISIONS		
DR.	TN	CH. KB
P.M.	JF	
JOB	24007256	
SHEET NO.	101	

CAD FILE: 24007256-PH1-SWMP-PLANS.DWG



KEYMAP
1"=750'



BENCHMARK:
AN "X" CUT IN CONCRETE LOCATED WITHIN THE INTERSECTION OF LOIS ROAD EAST AND THE GULF COAST AND SANTA FE RAILROAD RIGHTS-OF-WAY, HAVING AN ELEVATION OF 729.3 FEET, A NORTHING COORDINATE VALUE OF 7,192,162.0, AND AN EASTING COORDINATE VALUE OF 2,374,666.1.

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL ZONE, NAVD 88.

811
Know what's below.
Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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866.850.4200 www.atwell-group.com
143 UNION BOULEVARD, SUITE 700
LAKEWOOD, CO 80228
303.462.1100

KALTER CAPITAL
9788 SOUTH JOHNSON WAY
LITTLETON, COLORADO 80127
303.801.7333
MICHAEL PRYOR

KALTER CAPITAL
LOIS ROAD ESTATES - FILING NOS. 1 & 2
CITY OF SANGER, COUNTY OF DENTON,
STATE OF TEXAS
STORM WATER POLLUTION PREVENTION PLAN
SWPPP-5

CLIENT
DATE 4/7/2025

1st SUBMITTAL TO JURISDICTION 4/7/2025 - KMB
2nd SUBMITTAL TO JURISDICTION 5/12/2025 - KMB

REVISIONS

DR. TN CH. KB
P.M. JF

JOB 24007256
SHEET NO. 103

CAD FILE: 24007256-PH1-SWMP-PLANS.DWG

BEARINGS AND ELEVATIONS SHOWN HEREON ARE BASED ON
NAD 83 TEXAS STATE PLANE COORDINATES, NORTH CENTRAL
ZONE, NAVD 88.



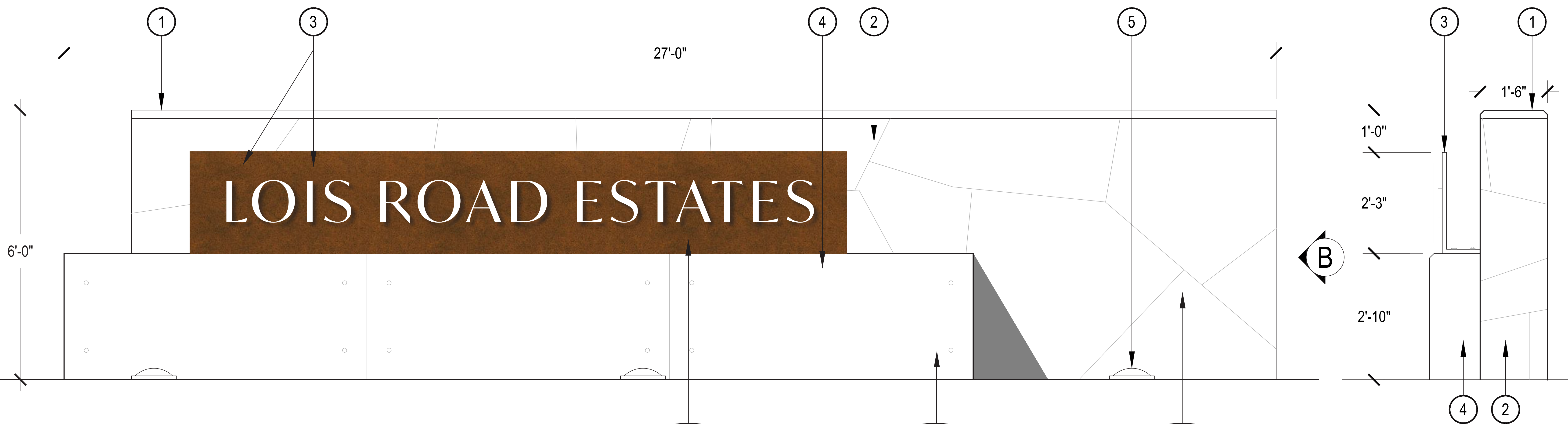
FILING #1



KEY MAP: NTS

LEGEND

- 1 ENTRY MONUMENT SIGNAGE
- 2 SLOPED BERM
- 3 ANNUAL COLOR PLANTING BED
- 4 NATIVE SHADE TREE
- 5 NATIVE ORNAMENTAL TREE
- 6 LOW EVERGREEN SHRUBS



FRONT ELEVATION FILING #1

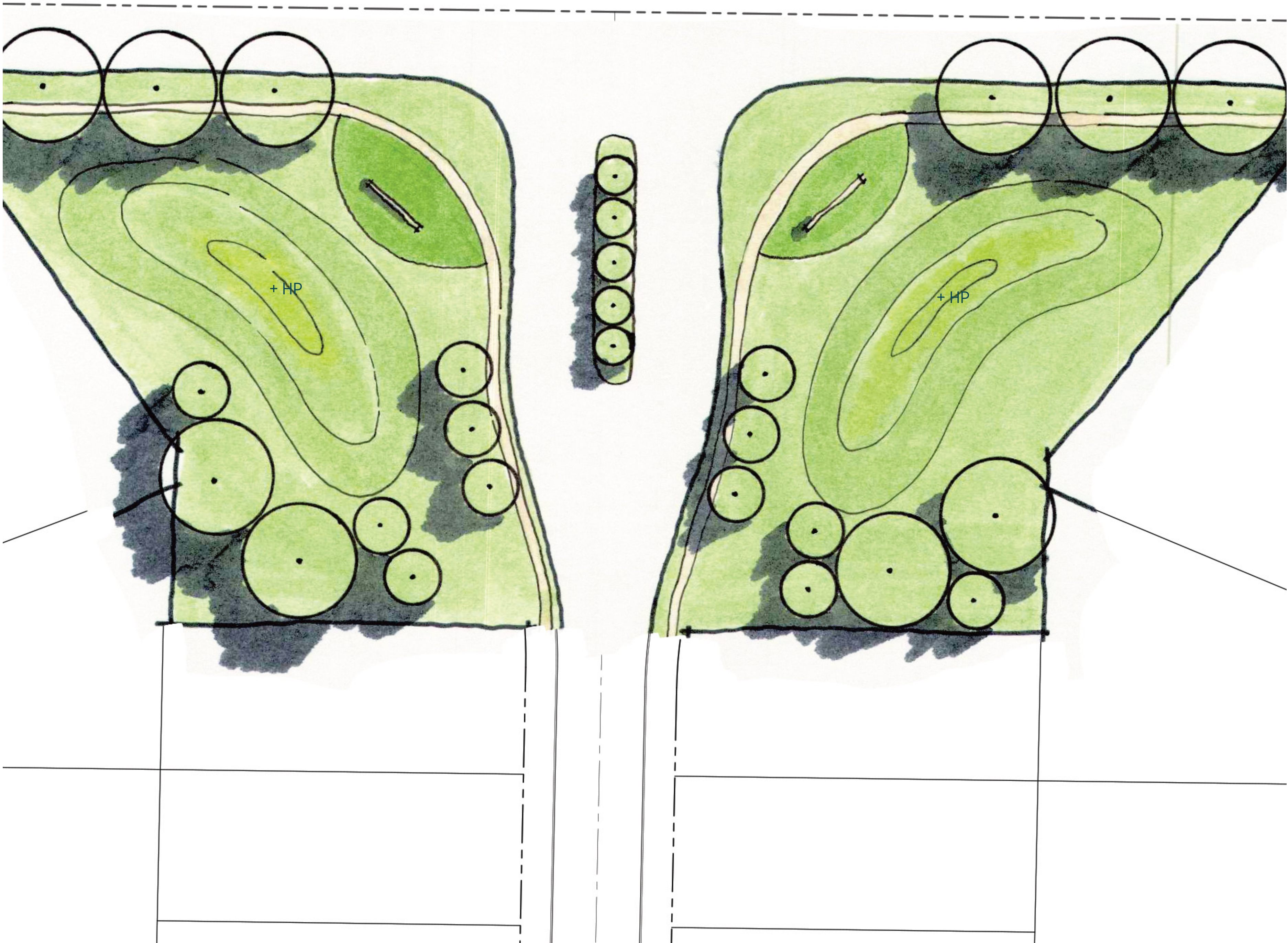
ELEVATION B

LEGEND

- 1 CAST STONE CAP; COLOR SHALL BE WARM GRAY
- 2 FLAGSTONE VENEER
- 3 ALUMINUM PANEL WITH CORTEN STEEL FINISH; WHITE PIN-MOUNTED LETTERING
- 4 ARCHITECTURAL CONCRETE WITH TIE HOLE FINISH
- 5 MONUMENT SIGNAGE UPLIGHT

FONT: IVYMODE - REGULAR

FILING #1



SLOPED BERMS FOR SCREENING

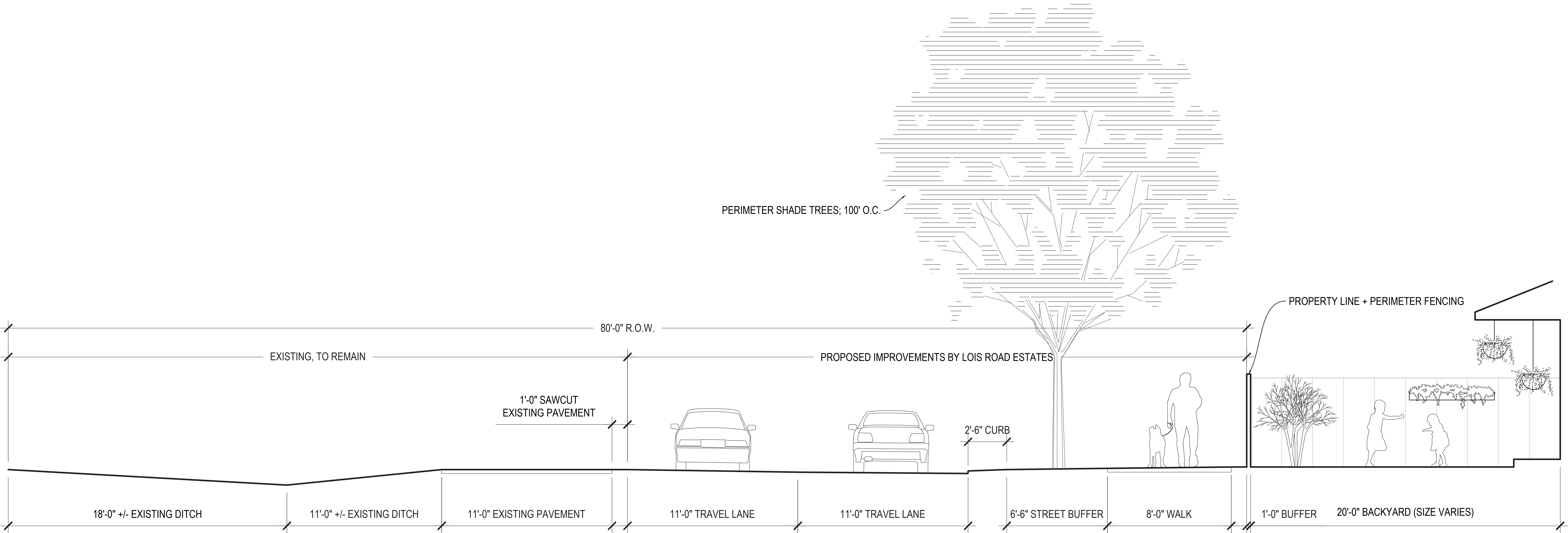


ANNUAL COLOR PLANTING BED

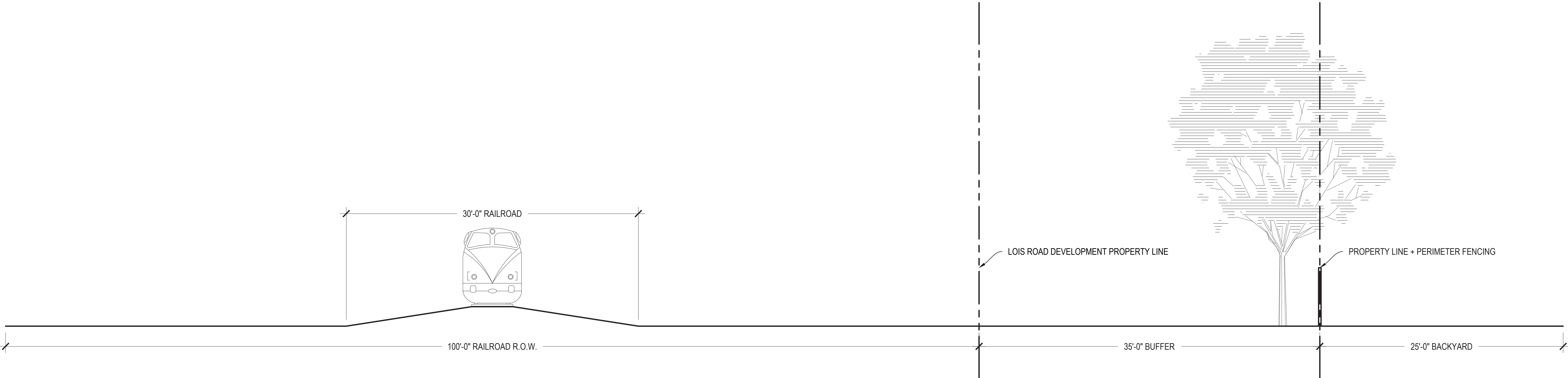


SHADE TREES + ORNAMENTAL TREES + EVERGREEN SHRUBS

FILING #1



FILING #1 and #2





KEY MAP: NTS

LEGEND

- 1 ENHANCED CONCRETE PARK ENTRY
- 2 CONCRETE WALKING PATH
- 3 PLAYGROUND
- 4 SLOPED BERM
- 5 IRRIGATED GRASS LAWN
- 6 NATIVE PLANTING BED
- 7 NATIVE SHADE TREE



DOUBLE TOWER WITH VALLEY BRIDGE

AGES 5-12 | 25 USERS
KOMPAN



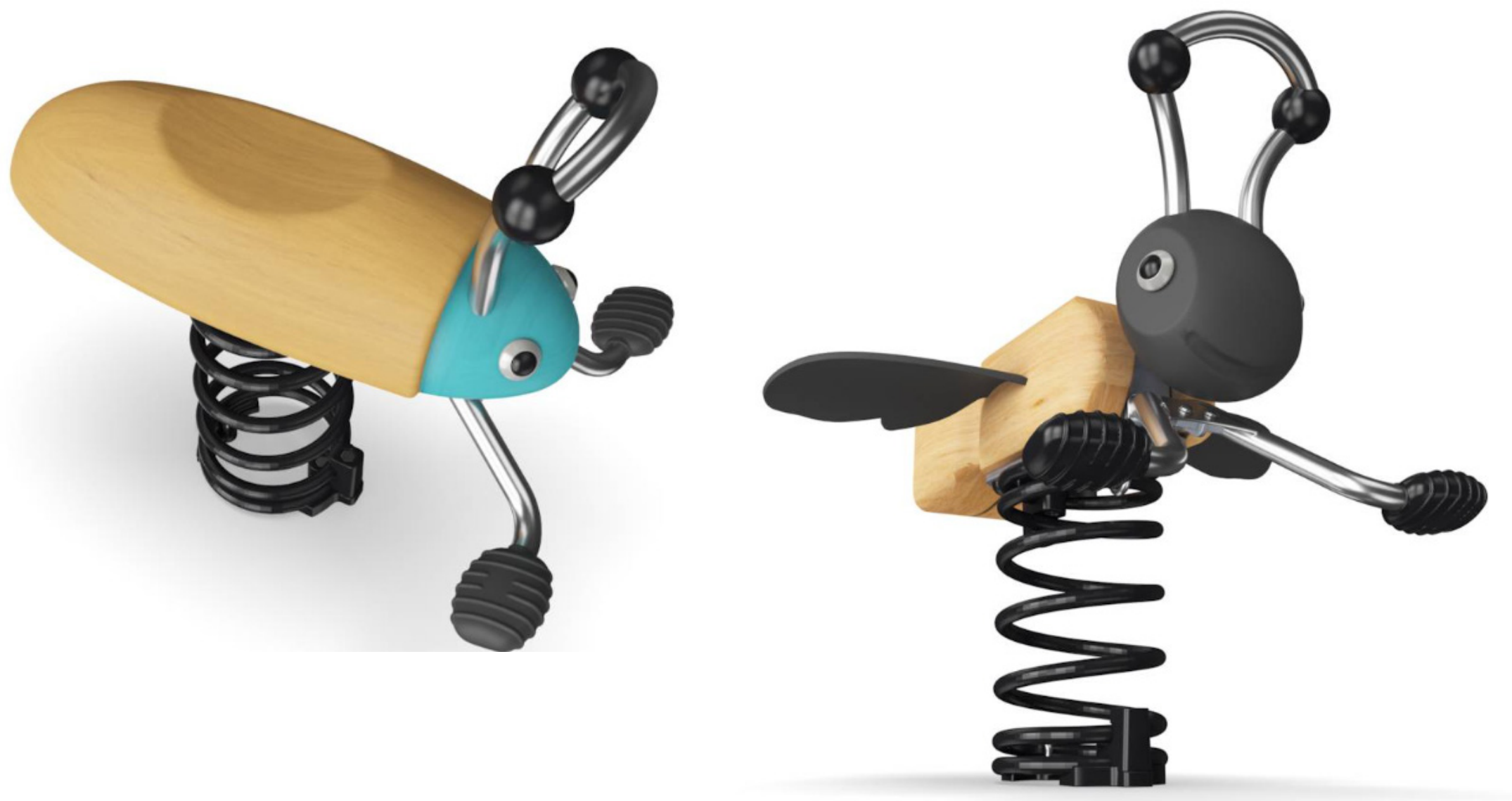
DOUBLE SWING COMBINATION

AGES 2-12 | 9 USERS
KOMPAN



FOREST BUG SPRINGER + BEE SPRINGER

AGES 2-12 | 1 USER EACH
KOMPAN





NATIVE PLANTING BEDS



ENHANCED PARK ENTRY - CONCRETE PAVERS



CONCRETE PATHS + IRRIGATED GRASS LAWN



SHADE TREES + ORNAMENTAL TREES + EVERGREEN SHRUBS