

PLANNING COMMISSION DATE: 9/8/14

AGENDA ITEM: 5C – BUSINESS ITEM

CASE # 2014-46

ITEM: Hunter's Crossing Final Plat

SUBMITTED BY: Kyle Klatt, Planning Director

REVIEWED BY: Nick Johnson, City Planner

Jack Griffin, City Engineer

SUMMARY AND ACTION REQUESTED:

The Planning Commission is being asked to consider a Final Plat request from The Ryland Group for the first phase of a planned 51 unit residential development to be called Hunter's Crossing. The proposed subdivision will be located on 23.10 acres immediately east of Lake Elmo Avenue and approximately ¼ mile north of Interstate 94. The final plat includes 22 single-family lots located within the northern portion of the overall subdivision area. Staff is recommending approval of the request subject to compliance with the conditions listed in this report.

GENERAL INFORMATION

Applicant: The Ryland Group (Tracey Rust), 7599 Anagram Drive, Eden Prairie, MN

Property Owners: Nathan Landucci, 404 Lake Elmo Avenue North, Lake Elmo, MN

Location: Part of Section 36 in Lake Elmo, north of I-94, east of Lake Elmo Avenue, and

south of the Cimarron Golf Course property. South of 404 Lake Elmo Avenue

North. PID Number 36.029.21.32.0008

Request: Application for final plat approval of a 22 unit residential subdivision to be

named Hunter's Crossing.

Existing Land Use and Zoning: Golf driving range and instruction and practice facility,

including small nine-hole practice course. Current Zoning:

LDR – Low Density Residential

Surrounding Land Use and Zoning: North – vacant land and Cimarron Manufactured Home Park;

East – Trans-City industrial building; West – The Forest

residential subdivision; South – currently vacant/agricultural but future site of proposed Air Lake Development business park; also two existing home sites located adjacent to development

along Lake Elmo Avenue

Comprehensive Plan: Urban Low Density Residential (2.5 – 3.99 units per acre)

History: Sketch Plan reviewed by Planning Commission on 9/23/13. The site has historically

been used for a golf driving range and practice facility. The City approved a

Conditional Use Permit for the driving range in 1990, and this permit, which is still

active, has been amended at least twice since this date. At some point in the past, the home in the extreme northwestern portion of the site (and outside the area to be platted) was split off from the larger parcel. The preliminary plat was approved by the City Council on July 1, 2014.

Deadline for Action: Application Complete -8/8/14

60 Day Deadline – 10/8/14 Extension Letter Mailed – No 120 Day Deadline – 12/8/14

Applicable Regulations: Chapter 153 – Subdivision Regulations

Article 10 – Urban Residential Districts (LDR)

§150.270 Storm Water, Erosion, and Sediment Control

REQUEST DETAILS

The City of Lake Elmo has received a request from The Ryland Group for final plat approval of the initial phase of the Hunter's Crossing residential subdivision. The area to be platted represents approximately half of the lots that were approved with the preliminary plat, and will include 22 single-family lots, outlots for storm water management facilities, and a larger outlot to be platted as part of the second addition. The City approved the Hunter's Crossing Preliminary Plat on July 1, 2014, and the final plat represents the northern portion of the overall area to be subdivided. The applicant has provided a detailed project narrative (attached) that provides summary of the request with information updated from the preliminary plat review where appropriate.

Hunter's Crossing will be located along the planned 5th Street minor collector route, and the preliminary plat indicated that the sole access into the development would be located off of 5th Street. One of the unique aspects of this project is that the planned location of 5th Street along the northern property line of the subdivision straddles the property line between the applicant's site and the adjacent property to the north. At this time, there has been no agreement reached between these two property owners to build 5th Street as a private improvement, therefore, the applicant is proposing to construct the southern half of this road as part of Hunter's Crossing, while leaving the northern portion to be constructed either when the northern property develops or when and if the City decides to complete this road as a public improvement project.

The final construction documents do include plans for 5th Street, but these plans note that it will be built as a future City project. Based on recent conversations with the City, the applicant has agreed to build the southern half of the road as noted above, but is proposing to complete this work as part of the second addition. This proposed phasing plan would result on the construction of a road of sufficient width to allow two-way traffic, but that would later be expanded to the City's full specifications for the road with one-lane of travel in each direction with turn lanes at full intersections. Because the applicant's portion of 5th Street would not be constructed until the second phase of the project, the applicant is proposing to use the existing access to the site as a temporary access for the first addition. The City's preliminary plat approval authorized the use of this temporary access to serve up to 25 lots, which falls within the number being proposed for the final plat. Washington County will also allow the temporary access provided this access is eliminated once 5th Street is in place.

There are a few issues that the City is working to address concerning the construction of 5th Street in two phases, and most importantly, is asking the applicant and northern property owner to enter into

an agreement to identify an area to handle storm water runoff from the road. The City will otherwise maintain control over the future platting in this area so that no further platting will be allowed either on the applicant's property or on the site to the north without at least half of the road being completed. As part of the planned improvements for 5th Street, the applicant will need to comply with the comments from Washington County, and will need to incorporate improvements to Lake Elmo Avenue as part of this work.

Consistent with the approved preliminary plat, the final plat does not include two exception parcels along Lake Elmo Avenue, both of which will be provided with potential future connections to the streets internal to Hunter's Crossing. As depicted in the attached plans, the northeast exception parcel will have access to 4th Street via Outlot B; access to the other exception parcel will be platted as part of the second addition. In both cases, these parcels will still be allowed to access Lake Elmo Avenue until they are redeveloped at some point in the future (both are guided for Medium Density Residential development).

The applicant has provided an updated landscape plan with all of the other required plans, and this plan has been reviewed by the City's consulting landscape architect. In his review he notes that the applicant will need to either provide more trees with the project or increase the size of the ones that have been proposed. These changes will be fairly straight forward to make as the developer prepares final revisions to the construction plans. In terms of public park land dedication, the preliminary plat was approved without a specific land dedication, and instead, the developer is expected to pay a fee in lieu of land dedication. Consistent with recent City approvals, the applicant may request a reduction in these fees in exchange for the construction of public trails within the project.

Please note that the grading and utility plans do cover the entire preliminary plat area, and that the developer will be mass grading the entire site as part of these plans. The other street and utility plans also depict the entire site, and the City Engineer has asked for further clarification concerning which aspects of these plans will be constructed as part of the phase one improvements. The applicant has submitted detailed construction plans for related to sanitary sewer, water main, storm sewer, grading, drainage, erosion control, landscaping, and other details that have been reviewed by the City Engineer.

The City's subdivision ordinance establishes the procedure for obtaining final subdivision approval, in which case a final plat may only be reviewed after the City takes action on a preliminary plat. As long as the final plat is consistent with the preliminary approval, it must be approved by the City. Please note that the City's approval of the Hunter's Crossing Preliminary Plat did include a series of conditions that must be met by the applicant, which are addressed in the "Review and Analysis" section below. There are no public hearing requirements for a final plat.

The City's zoning map for all of the area included in the preliminary plat for Hunter's Crossing has previously been updated to be consistent with the City's Comprehensive Plan. All of the site is zone LDR – Urban Low Density Residential, and the proposed lots, setbacks, streets, and other plan elements have been found to be consistent with the LDR district requirements.

Staff has reviewed the final plat and found that it is consistent with the preliminary plat that was approved by the City. Please note that the final plat now includes proposed street names as recommended by the Planning Department. The City Engineer, Landscape Architect, and County Engineer have reviewed the final plat, and these comments are attached to this report. Although there are some additional revisions to the final construction plans that will need to be addressed by the applicant, the majority of these revisions can be made before the City releases the final plat for recording.

REVIEW AND ANALYSIS

The preliminary plat for Hunter's Crossing was approved with several conditions, which are indicated below along with Staff's comments on the status of each. The applicant has also provided a response to these conditions as part of the attached application narrative. Staff is recommending approval of the final plat with conditions intended to address the outstanding issues that will require additional review and/or documentation. In order to assist the Planning Commission with its review, Staff is also including a summary the critical issues that need to be resolved for the subdivision to move forward.

Critical Issues Summary:

- 1) The developer is proposing to construct half of 5th Street with their project, leaving the northern half to be constructed by another private party or of the City in the future. Staff has agreed that this is be best option for moving forward with development in this area given the unique site ownership and property boundaries that exist around the applicant's site. There is minimal risk to the City in taking this approach since it will be relatively straight-forward to demonstrate benefit to the northern property owner if the City decides to build the road and asses the costs back to the abutting property owner.
- 2) 5th Street will be constructed with the second addition, at which time the applicant will need to prepare plans for the southern portion of this road that comply with City standards and also comply with Washington County requirements for the intersection of 5th Street and Lake Elmo Avenue. The City is working with both the applicant and property owner to the north to secure an agreement concerning the storm water facilities needed to build the road. This agreement will be completed prior to a final plat for second addition.
- 3) The applicant will need to secure an easement from the property owner to the east related to storm water discharge in the southwest portion of the site. This property owner has not objected to the proposed easement, and this is an issue that can be finalized prior to release of the final plat for recording.
- 4) All other recommended conditions of approval relate to final details that must be addressed by the applicant and can be handled prior to release of the final plat for recording.

Preliminary Plat Conditions – With Staff Update Comments (updated information in bold italics):

- 1) Within six months of preliminary plat approval, the applicant shall complete the following: a) the applicant shall provide adequate title evidence satisfactory to the City Attorney; and b) the applicant shall pay all fees associated with the preliminary plat. The above conditions shall be met prior to the City accepting an application for final plat and prior to the commencement of any grading activity on the site. Comments: a) all title work will need to be submitted and reviewed by the City Attorney before City officials sign the final plat; b) the applicant has submitted an escrow payment related to the preliminary plat application that is being used to cover Staff and consultant expenses related to the City's review.
- 2) The landscape plan and tree preservation plan shall be reviewed and approved by an independent forester or landscape architect in advance of the approval of a final plat and final construction plans. *Comment: the plans have been reviewed by the City's landscape architecture consultant*

and his review is included as an attachment to this report. The applicant will need to further revise the landscape plan to comply with the City's landscape ordinance by either adding more trees or increasing the size of the proposed trees. Staff has found that the proposed plan is generally acceptable and complies with the City's expectations and requirements for street trees, and screening and buffering of adjacent properties. This is an issue that can be resolved through further discussions between the City and developer.

- 3) The final landscape plan shall incorporate additional planting where feasible adjacent to the shared property lines with the parcels at 404 and 275 Lake Elmo Avenue North. Comments: The final landscape plan includes additional plantings along the southwestern property boundary. The number of plantings along the northwestern property boundary is similar to the preliminary plat; however, the location of the future access in this location (Outlot B) limits the developer's ability to add substantially more plantings along this boundary.
- 4) The applicant shall be responsible for updating the final construction plans to include the construction of all improvements within the Lake Elmo Avenue (CSAH 17) right-of-way as required by Washington County and further described in the review letter received from the County dated June 17, 2014. The required improvements shall include, but not be limited to the construction of a northbound right turn lane and southbound center turn lane. Comments:

 Because the plans for 5th Street will be more fully developed as part of the second addition, this condition will be revised to note the most recent County review comments and to further clarify that the Lake Elmo Avenue improvements will be constructed with the 5th Street project in the future.
- 5) The developer shall follow all of the rules and regulations spelled out in the Wetland Conservation Act, and shall acquire the needed permits from the Valley Branch Watershed District prior to the commencement of any grading or development activity on the site.

 Comments: The applicant has received a permit from the Valley Branch Watershed District (attached) for the grading work proposed in the final plans. This permit includes conditions that must be met prior to the commencement of any grading work on the site.
- 6) The applicant shall enter into a maintenance agreement with the City that clarifies the individuals or entities responsible for any landscaping installed in areas outside of land dedicated as public park and open space on the final plat. Comments: The applicant has indicated that there will be a homeowner's association created for this development; the declarations and HOA documents should be recorded with the final plat. A maintenance agreement and evidence that the HOA has been established should be retained as a condition of approval for the final plat.
- 7) The developer shall be required to pay a fee in lieu of park land dedication equivalent to the fair market value for the amount of land that is required to be dedicated for such purposes in the City's Subdivision Ordinance less the amount of land that is accepted for park purposes by the City. Any cash payment in lieu of land dedication shall be paid by the applicant prior to the release of the final plat for recording. Comments: The applicant will be required to pay the required fee in lieu of land dedication to recording the final plat. Because the project is being split into at least two final plats, the park fees will be pro-rated based on the percentage of lots being platted within the overall development.

- 8) Any land under which paved public trails are located will be accepted as park land provided the developer constructs said paved trails as part of the public improvements for the subdivision.

 Comments: Staff is recommending that this condition be merged with the above condition for the final plat.
- 9) The temporary access to Lake Elmo A venue must be eliminated when access to 5th Street is provided. The City will not issue building permits for more than 25 lots within Hunter's Crossing until such time that the temporary access is closed. Comments: this condition will allow the developer to plat the requested 22 homes as part of the first edition before 5th Street is constructed. Only three additional lots may be platted and built upon before 5th Street is constructed.
- 10) The applicant must enter into a separate grading agreement with the City prior to the commencement of any grading activity in advance of final plat and plan approval. The City Engineer shall review any grading plan that is submitted in advance of a final plat, and said plan shall document extent of any proposed grading on the site. Comments: the applicant is seeking approval to commence grading consistent with this condition; the City will likely be issuing a permit for this work prior to the City Council action on the final plat.
- 11) All required modifications to the plans as requested by the City Engineer in a review letter dated May 23, 2014 shall be incorporated into the plans prior to consideration of a final plat. Comments: Revised plans have been submitted for review, and the attached comments from the City Engineer provide a response to the updated plans. All final revisions and modifications as requested by the City Engineer must be addressed by the applicant before the plat will be released for recording. The majority of the Engineer's comments will require minor modifications to the plans and specifications and are not unusual at this detailed level of review.
- 12) The applicant is encouraged to preserve or re-use as many trees as possible that are currently located on the property and to incorporate these trees as part of the landscape plan for the subdivision. Comments: Given the tight confines of the project area and the need to meet City and watershed district storm water requirements, there are relatively few opportunities to incorporate existing trees into the development. The applicant has stated that they will preserve or re-use trees if possible.
- 13) The applicant shall provide written consent from the adjacent property owner to the north agreeing to the grading and storm sewer work depicted on this property. Comments: The applicant has stated that they will work with this property owner if any grading is necessary to construct the 5th Street improvements. The City is also working to complete a separate agreement with these property owners to address this issue.
- 14) Water improvements must be available to serve the subdivision. Comments: The City Council has ordered these improvements as part of the Lake Elmo Avenue water project, which satisfies this condition. Ryland has agreed to pay the Water Availability Charge for the entire development prior to recording the final plat.
- 15) The applicant shall pay a Water Availability Charge consistent with the Lake Elmo Fee Schedule for the entire development prior to the release of the final plat for recording, regardless of project phasing. *Comments: Please see note above.*

Staff is recommending that the conditions noted above that pertain to the final plat and that have not yet been addressed by the applicant should be adopted with the final plat. The City Engineer's review letter does identify several issues that need to be addressed by the developer in order for the City to deem the final plans complete; however, all of these concerns are related to the construction plans and should not have any bearing on the final plat. Staff is recommending that City Officials not sign the final plat mylars until the City's construction plan review is finalized and all necessary easements are documented on the final plat.

Based on the above Staff report and analysis, Staff is recommending approval of the final plat with several conditions intended to address the outstanding issues noted above and to further clarify the City's expectations in order for the developer to proceed with the recording of the final plat.

The recommended conditions are as follows:

Recommended Conditions of Approval:

- 1) Final grading, drainage, and erosion control plans, utility plans, sanitary and storm water management plans, and street and utility construction plans shall be reviewed and approved by the City Engineer prior to the recording of the Final Plat. All changes and modifications to the plans requested by the City Engineer in review memo dated 9/3/14 shall be incorporated into these documents before they are approved.
- 2) The developer shall provide evidence in a form satisfactory to the City Attorney that warrants it has fee interest in area included in the Hunter's Crossing Final Plat.
- 3) Prior to the execution of the Final Plat by City officials, the Developer shall enter into a Developer's Agreement acceptable to the City Attorney and approved by the City Council that delineates who is responsible for the design, construction, and payment of the required improvements with financial guarantees therefore.
- 4) All easements as requested by the City Engineer and Public Works Department shall be documented on the Final Plat prior to the execution of the final plat by City Officials.
- 5) A Common Interest Agreement concerning management of the common areas of Hunter's Crossing and establishing a homeowner's association shall be submitted in final form to the Community Development Director before a building permit may be issued for any structure within this subdivision. The applicant shall also enter into a maintenance agreement with the City that clarifies the individuals or entities responsible for any landscaping installed in areas outside of land dedicated as public park and open space on the final plat
- 6) The final landscape plan shall be updated to address the comments from the City's consulting landscape architect in a review letter to the City dated 9/5/14.
- 7) The developer shall provide written authorization from the property owner to the east of Hunter's Crossing to allow the proposed drainage improvements and discharge of storm water on to their property. A utility easement across the affected property is one option for compliance with this condition.
- 8) The final construction plans for any additional final plat within Hunter's Crossing shall include, at a minimum, the southern portion of 5th Street. At this time these plans are

- prepared they shall include the construction of all improvements within the Lake Elmo Avenue (CSAH 17) right-of-way as required by Washington County and further described in the review letter received from the County dated September 2, 2014.
- 9) The developer is encouraged to incorporate elements from the Lake Elmo Theming Study into the final design of the community mailboxes within Hunter's Crossing.
- 10) The developer shall pay a fee in lieu of park land dedication equivalent to the fair market value for the amount of land that is required to be dedicated for such purposes in the City's Subdivision Ordinance less the amount of land that is accepted for park purposes (or trails) by the City. Any cash payment in lieu of land dedication shall be pro-rated based on the percentage of the overall lots to be platted within the subdivision and shall be paid by the applicant prior to the release of the final plat for recording.
- 11) The applicant shall deed Outlots A, B, and E to the City upon recording of the final plat.

DRAFT FINDINGS

Staff is recommending that the Planning Commission consider the following findings with regards to the proposed Hunter's Crossing Final Plat:

- That the Final Plat is consistent with the Preliminary Plat and Plans as approved by the City of Lake Elmo on July 1, 2014.
- That the Final Plat is consistent with the Lake Elmo Comprehensive Plan and the Future Land Use Map for this area.
- That the Final Plat complies with the City's Urban Low Density Residential zoning district.
- That the Final Plat complies with all other applicable zoning requirements, including the City's landscaping, storm water, sediment and erosion control and other ordinances.
- That the Final Plat complies with the City's subdivision ordinance.
- That the Final Plat is consistent with the City's engineering standards with the plan revisions as requested by the City Engineer.

RECCOMENDATION:

Staff recommends that the Planning Commission recommend approval of the Final Plat for Hunter's Crossing with the 11 conditions of approval as listed in the Staff report. Suggested motion:

"Move to recommend approval of the Hunter's Crossing Final Plat with the 11 conditions of approval as drafted by Staff"

ATTACHMENTS:

- 1. Application Form
- 2. Application Narrative
- 3. Lot Information Summary
- 4. Tree Inventory
- 5. City Engineer Review Letter
- 6. Landscape Architecture Review Letter
- 7. Washington County Review Comments
- 8. Valley Branch Watershed District Permit
- 9. Fire Department Review Comments
- 10. Hunter's Crossing Final Plat
- 11. Construction Plans: Final Grading Plan
- 12. Construction Plans: Utility and Street Construction
- 13. Final Landscape Plans

ORDER OF BUSINESS:

	Introduction	Planning Staff
-	Report by Staff	Planning Staff
-	Questions from the Commission	Chair & Commission Members
-	Open the Public Hearing	Chair
	Close the Public Hearing	Chair
	Discussion by the Commission	Chair & Commission Members
	Action by the Commission	Chair & Commission Members

Date Received:	
Received By:	
LU File #.	



651-747-3900 3800 Laverne Avenue North Lake Elmo, MN 55042

FINAL PLAT APPLICATION

Address: _7599 Anagram Drive Eden I	Prairie MN 55344
Phone #: 952 229 6063	
Email Address: trust@ryland.com	
Fee Owner: Nathan Landucci	
Address: 13230 20th St Ct. N.	
Phone #:651 894 2582	
Email Address: landucnl@hotmail.com	
Property Location (Address and Complete (long) Leg	gal Description:
-	
General information of proposed subdivision:	
General information of proposed subdivision: 22 lot residential subdivi	ision
General information of proposed subdivision: 22 lot residential subdivi	ision
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22 lot residential subdivi	ad and fully understand the applicable provisions of the Zoning nowledge the fee explanation as outlined in the application
n signing this application, I hereby acknowledge that I have reach the concedures and current administrative procedures. I further ack procedures and hereby agree to pay all statements received from	ad and fully understand the applicable provisions of the Zoning nowledge the fee explanation as outlined in the application om the City pertaining to additional application expense
n signing this application, I hereby acknowledge that I have rea	ad and fully understand the applicable provisions of the Zoning nowledge the fee explanation as outlined in the application

Date Received:	
Received By:	
LU File #;	



651-747-3900 3800 Laverne Avenue North Lake Eimo, MN 55042

FINAL PLAT APPLICATION

Email Addr	952 229 6063 ress: trust@ryland.com
Fee Owner	
	Nothan I andused
	r: Nathan Landucci
Address:	13230 20th St Ct. N.
Phone #:	651 894 2582
Email Addr	ress: landucnl@hotmail.com
Property Lo	ocation (Address and Complete (long) Legal Description:
General inf	formation of proposed subdivision:
2	22 lot residential subdivision
signing this	application, I hereby acknowledge that I have read and fully understand the applicable provisions of the Zor
ordinance and	d current administrative procedures. I further acknowledge the fee explanation as outlined in the application
ordinance and	
ordinance and	d current administrative procedures. I further acknowledge the fee explanation as outlined in the application and hereby agree to pay all statements received from the City pertaining to additional application expense.



Lake Elmo City Hall 651-747-3900 3800 Laverne Avenue North Lake Elmo, MN 55042

AFFIRMATION OF SUFFICIENT INTEREST

I hereby affirm that I am the fee title owner of the below described property or that I have written authorization from the owner to pursue the described action.
Name of applicant Nathun Landreci' (Please Print)
Street address/legal description of subject property
404 Lake Elmo Drive N.
2011
Signature Date

If you are not the fee owner, attach another copy of this form which has been completed by the fee owner or a copy of your authorization to pursue this action.

If a corporation is fee title holder, attach a copy of the resolution of the Board of Directors authorizing this action.

If a joint venture or partnership is the fee owner, attach a copy of agreement authorizing this action on behalf of the joint venture or partnership.



Lake Elmo City Hall 651-747-3900 3800 Laverne Avenue North Lake Elmo, MN 55042

ACKNOWLEDGEMENT OF RESPONSIBILITY

This is to certify that I am making application for the described action by the City and that I am responsible for complying with all City requirements with regard to this request. This application should be processed in my name and I am the party whom the City should contact regarding any matter pertaining to this application.

I have read and understand the instructions supplied for processing this application. The documents and/or information I have submitted are true and correct to the best of my knowledge. I will keep myself informed of the deadlines for submission of material and of the progress of this application.

I understand that this application may be reviewed by City staff and consultants. I further understand that additional information, including, but not limited to, traffic analysis and expert testimony may be required for review of this application. I agree to pay to the City upon demand, expenses, determined by the City, that the City incurs in reviewing this application and shall provide an escrow deposit to the City in an amount to be determined by the City. Said expenses shall include, but are not limited to, staff time, engineering, legal expenses and other consultant expenses.

I agree to allow access by City personnel to the property for purposes of review of my application.

Signature of applicant Lacy 11 cm	2 Date 8/7/14
Name of applicant <u>Jeacey L. Rust</u> (Please Print)	Phone 4952) 229-606
Name and address of Contact (if other than application	



TWIN CITIES DIVISION

7599 Anagram Drive Eden Prairie, MN 55344

952.229.6000 Tel 952.229.6024 Fax

www.ryland.com

August 8, 2014

Kyle Klatt Planning Director City of Lake Elmo 3800 Laverne Ave. N. Lake Elmo, MN 55042

RE: Hunters Crossing – Final Plat Application

Dear Mr. Klatt:

Ryland Homes is pleased to submit to the City of Lake Elmo a Final Plat application for Hunters Crossing located on the east side of Lake Elmo Ave. N. approximately ¼ mile north of Intestate Hwy 94. The following written statements are being provided as part of the submittal requirements for the development:

A. Contact Information

a. Property Owner/Seller: Nathan Landucci

404 Lake Elmo Ave. N. Lake Elmo, MN 55042

(651) 894-2582

b. Developer/Buyer/Applicant: The Ryland Group – Tracey Rust

7599 Anagram Drive Eden Prairie, MN 55344

(952) 229-6063

c. Engineer/Surveyor: Pioneer Engineering – Paul Cherne

2422 Enterprise Drive

Mendota Heights, MN 55120

(651) 251-0630

B. Site Data

- a. Address: 404 Lake Elmo Ave. N., Lake Elmo, MN 55042
- b. Zoning: On October 1, 2013 the City Council approved the Comprehensive Plan Amendment request from Medium Density Residential (MDR) to Low Density Residential (LDR). Existing zoning RT-Rural Transitional with proposed zoning of LDR-Urban Low Density Residential.
- c. Parcel Size: 23.10 Acres (1,006,236 SF)
- d. PID: 36.029.21.32.0008
- e. Legal Description: See attached-Per Title Commitment

- C. Final Subdivision and Lot Information:
 - i. Proposed Development Name: Hunters Crossing
 - ii. See attached table for lot and block number, size and width and depth of lot
 - iii. See attached table with the Public Open Space area of 0.6265 Acres.
 - iv. There will be no wetlands remaining for this development.
 - v. See attached table with the proposed Right-of-Way area of 4.5671 Acres.
 - vi. See Final Plat for Easement locations.

D. Preliminary Plat Conditions:

- 1. Title and Fees: Title will be submitted under separate cover. All fees have been paid for Preliminary Plat.
- 2. Landscape plan is attached for review.
- 3. Additional landscaping has been added along adjacent property lines.
- 4. Final construction plans will include the necessary improvements for 5th Street and Lake Elmo Avenue. Further coordination with the City and County is necessary prior to final plans.
- 5. Valley Branch Watershed District granted approval for the wetland impacts on July 10, 2014.
- 6. Landscaping outside of public areas will be the responsibility of individual homeowners or the Home Owner's Association depending on the planting locations.
- 7. Park fee will be paid in lieu of park land dedication prior to final plat recording.
- 8. A public trail will be constructed with this development.
- 9. The temporary access from Lake Elmo Avenue will be eliminated when access to 5th Street is provided.
- 10. A grading permit application has been submitted to the City for approval.
- 11. Please see attached plans addressing the City Engineers comments.
- 12. Ryland will preserve or re-use trees if possible.
- 13. Ryland will work with the property owner to the north should grading be necessary to construct 5th Street improvements.
- 14. Ryland will pay the Water Availability Charge for the entire development prior to Final Plat recording.
- E. Density: The net density for the overall site is 3.93 lots/acre. This calculation is based on the number of lots divided by the acreage excluding outlots and right of way (51 lots / (23.10 -3.84-6.27) Acres = 3.93 lots/acre.)
- F. Infrastructure Improvements: Hunters Crossing will ultimately have access from the future 5th Street corridor. The temporary access point for the site will be via the existing driveway entrance off of Lake Elmo Avenue. The internal streets with sidewalks parallel Lake Elmo Avenue and 5th Street with 2 cul-de-sacs on the east side of the property adjacent to the proposed stormwater basin. The stormwater basin located on the east side of the property has been designed in this location due to the low area of the site as well as allowing a natural buffer between the residential and future business park use. A trail is proposed along the south and east side of the basin to provide a connection from the development to 5th Street. Sanitary sewer service will be provided within the internal roadway system with connection to the 24" sanitary sewer service that the City recently installed to service this and other sites. Watermain service will also be provided within the internal roadway and connect to the watermain trunk service that is currently being installed along Lake Elmo Avenue by the City with an expected completion date of September 2015.

Phase I of Hunters Crossing will consist of 22 lots with necessary streets and utilities.

G. Neighbor Concerns:

- a. Neighbor at Southwest corner Ryland has discussed this project with the neighbors directly adjacent to the site. The neighbor at the southwest corner of the site mentioned concern for future grading and drainage entering their property and if Lake Elmo Avenue improvements would affect their property and/or driveway. Ryland's grading plan addresses the grading by matching existing grades at the property line. The current Lake Elmo Avenue & 5th Street intersection improvements do not extend south past the development therefore those improvements will not affect the current property owner at the southwest corner. Additional landscaping was added to increase screening along the properties lines.
- b. Neighbor to the East Ryland has met with the adjacent neighbor to the east to discuss the development and to acquire a grading easement on their property. Discussions with them have been favorable regarding the location of 5th Street and the need for a grading easement for Ryland to do some minor grading to ensure proper flow from the stormwater basin's ultimate outlet.
- H. Conflicts with nearby land uses: Ryland believes that not only is this development not creating conflicts with nearby land uses or future uses but that it is encouraging future uses with it being the first development in the area and contributing to utility trunk service extensions and roadway improvements. There is one wetland area on the site that will be disturbed during the development and has been approved by Valley Branch Watershed District. Ryland will be paying into a wetland bank in lieu of wetland mitigation.
- I. No excessive burden on the City: With the City of Lake Elmo's plan to expand and create developments in Lake Elmo and given the size of this first development into the area, we do not anticipate any burdens on roadways, utilities, parks, schools, fire, police, or other services in the area.
- J. Proposed lakeshore access: Not applicable.
- K. Parks and/or open space: The City staff has recommended that a park is not necessary within the proposed development and that Ryland will pay a parkland dedication fee to contribute to a future regional park within the area.
- L. Development Schedule: The development will be constructed in two (2) phases with the first phase utilizing the existing access off of Lake Elmo Avenue until 5th Street is constructed and complete. Phase I will consist of 22 lots along the north side of the site with necessary streets, utilities and the stormwater basins. The following is a preliminary schedule for design/approvals and construction.
 - a. Begin Site Grading August 2014
 - b. Phase I Final Plat Approval September 16, 2014
 - c. Phase I Site Construction (Streets & Utilities) September November 2014
 - d. City Watermain Extension June October 2014
 - e. 5th Street Construction Spring 2015
 - f. Phase II Final Plat Approval April 2015
 - g. Phase II Site Construction June August 2015
 - h. Home Construction November 2014 December 2016

Ryland Homes has appreciated City Staff's comments and direction so far with this project and we look forward to continuing to work with City Staff to make this a successful new neighborhood for the City of Lake Elmo. Please feel free to contact Tracey Rust at 952.229.6063 with any questions.

Sincerely,

THE RYLAND GROUP, INC.

Tracey Rust, PE Entitlement Manager

Attachment: Legal Description

Hunters Crossing Information Table

HUNTERS CROSSING

LOT INFORMATION				
Lot#	Block #	Acreage	Width (ft)	Depth (ft)
1	1	0.3646	80.9	194.3
2	1	0.2245	72.0	133.4
3	1	0.2496	72.0	150.9
4	1	0.2499	72.0	151.2
1	2	0.3059	77.6	171.4
2	2	0.2633	72.0	158.7
3	2	0.2783	80.4	150.5
Ú.	3	0.2702	72.0	163.5
2	3	0.2702	72.0	163.5
3	3	0.2762	103.0	126.9
4	3	0.2099	72.0	127.0
5	3	0.2099	72.0	127.0
6	3	0.2540	92.8	127.0
1	4	0.3074	83.7	148.3
2	4	0.2622	72.0	140.4
3	4	0.2379	72.0	145.6
4	4	0.3043	65.0	139.5
5	4	0.3099	78.7	125.1
6	4	0.3391	78.7	134.0
7	4	0.2421	65.0	126.4
8	4	0.2742	72.0	183.5
9	4	0.2758	91.0	133.9

Total area dedicated public open space: 0.6265 acres

Total area wetland and buffers: 0 acres

Total area proposed right-of-ways: 4.5671 acres

Hunters Crossing Tree Inventory

April 29, 2014

Final Plat Submittal August 8, 2014

RYLAND HOMES®

Tree Inventory by:

Ken Arndt

Forest Ecologist/Wetland Specialist Midwest Natural Resources, Inc. 1032 West Seventh St. #150 St. Paul, MN 55102 (651)-788-0641

Tree Preservation Plans provided by:



2422 Enterprise Drive Mendota Heights, MN 55120 651-681-1914

Tag #	Size	Common Name	Scientific Name	Native/Non-Native	Notes	Status
1225	24/16	Siberian Elm	Ulmus pumila	non-native		Remove
1226	17/12/12	Siberian Elm	Ulmus pumila	non-native		Remove
1227 1228	20 14/12	Siberian Elm Siberian Elm	Ulmus pumila Ulmus pumila	non-native non-native		Off-Site Remove
1229	14/10/10	Silver Maple	Acer saccharinum	native		Remove
1230	10/10/7	Siberian Elm	Ulmus pumila	non-native		Remove
1231	10/9/6/6	Silver Maple	Acer saccharinum	native		Remove
1232	13/12	Siberian Elm	Ulmus pumila	non-native		Remove
1233	14	Siberian Elm	Ulmus pumila	non-native		Remove
1234	18	Siberian Elm	Ulmus pumila	non-native		Off-Site
1235	22	Boxelder	Acer negundo	native		Remove
1236	22	Boxelder	Acer negundo Ulmus pumila	native		Remove
1237 1238	14/10 19	Siberian Elm American Elm	Ulmus americana	non-native native		Remove Remove
1239	20/12	Siberian Elm	Ulmus pumila	non-native		Remove
1240	16	Northern Pin Oak	Quercus ellipsoidalis	native	Not shown on plan, Hardwood	Remove
1241	34	Cottonwood	Populus deltoides	native		Remove
1242	30	Cottonwood	Populus deltoides	native		Remove
1243	19	Cottonwood	Populus deltoides	native		Remove
1244	20	Boxelder	Acer negundo	native		Remove
1245	14/14/14	Green Ash	Fraxinus pennsylvanica	native	1 of 3 has internal decay along stem	Remove
1246	15/14	Siberian Elm	Ulmus pumila	non-native		Remove
1247	10/10	Siberian Elm Siberian Elm	Ulmus pumila Ulmus pumila	non-native		Remove
1248 1249	11 16/12	Siberian Elm Siberian Elm	Ulmus pumila Ulmus pumila	non-native non-native		Remove Remove
1250	18/12	Siberian Elm	Ulmus pumila	non-native		Remove
1251	24	Siberian Elm	Ulmus pumila	non-native		Remove
1252	20	Siberian Elm	Ulmus pumila	non-native		Remove
1253	26	Black Willow	Salix nigra	native		Remove
1254	18	Black Willow	Salix nigra	native		Remove
1255	19	Black Willow	Salix nigra	native		Remove
1256	24	Black Willow	Salix nigra	native		Remove
1257	18	Black Willow	Salix nigra	native		Remove
1258	8	Green Ash	Fraxinus pennsylvanica	native		Remove
1259	17 8	Siberian Elm	Ulmus pumila	non-native		Remove
1260 1261	6/6	Green Ash Siberian Elm	Fraxinus pennsylvanica Ulmus pumila	native non-native		Remove Remove
1262	6/6	Siberian Elm	Ulmus pumila	non-native		Remove
1263	7	Green Ash	Fraxinus pennsylvanica	native		Remove
1264	12	Siberian Elm	Ulmus pumila	non-native		Remove
1265	15	Siberian Elm	Ulmus pumila	native		Remove
1266	12/8	Silver Maple	Acer saccharinum	native		Remove
1267	13/8	Silver Maple	Acer saccharinum	native		Remove
1268	16/12/8	Silver Maple	Acer saccharinum	native		Remove
1269	13	Silver Maple	Acer saccharinum	native		Remove
1270	22/22/20/14	Silver Maple	Acer saccharinum	native		Remove
1271 1272	13 14	Silver Maple Silver Maple	Acer saccharinum	native		Remove Remove
1272	11	Silver Maple	Acer saccharinum Acer saccharinum	native native		Remove
1274	10	Silver Maple	Acer saccharinum	native		Remove
1275	7	Silver Maple	Acer saccharinum	native		Remove
1276	10	Silver Maple	Acer saccharinum	native		Remove
1277	10	Silver Maple	Acer saccharinum	native		Remove
1278	8	Silver Maple	Acer saccharinum	native		Remove
1279	17	Silver Maple	Acer saccharinum	native		Remove
1280	17	Silver Maple	Acer saccharinum	native		Remove
1281	28/19	Silver Maple	Acer saccharinum	native		Remove
1282	25	Silver Maple	Acer saccharinum	native	400/ top dood integral decree O has	Remove
1283 1284	29 12	Silver Maple Jack Pine	Acer saccharinum Pinus banksiana	native native	40% top dead, internal decay @ base Coniferous	Remove
1284	18/17/16/16/16	Silver Maple	Acer saccharinum	native	Connectous	Remove Remove
1286	28	Silver Maple	Acer saccharinum	native		Remove
1287	14	Siberian Elm	Ulmus pumila	non-native		Remove
1288	16	Green Ash	Fraxinus pennsylvanica	native		Remove
1289	16/10	Siberian Elm	Ulmus pumila	non-native		Remove
1290	9	Silver Maple	Acer saccharinum	native		Remove
1291	25	Siberian Elm	Ulmus pumila	non-native	Not shown on plan	Remove
1292	14	Siberian Elm	Ulmus pumila	non-native	Not shown on plan	Remove
1293	7	Silver Maple	Acer saccharinum	native		Remove
1294	20/16/12	Siberian Elm	Ulmus pumila	non-native		Remove
1295	8/7	Siberian Elm	Ulmus pumila Ulmus pumila	non-native		Save
1296 1297	14 11	Siberian Elm Siberian Elm	Ulmus pumila Ulmus pumila	non-native non-native		Save Save
1631		S.SCHUIT LIIII	o.mas pannia	HOIT HULLYC		Jave

Tag#	Size	Common Name	Scientific Name	Native/Non-Native	Notes	Status
1298	16	Siberian Elm	Ulmus pumila	non-native		Save
1299	13/10	Siberian Elm	Ulmus pumila	non-native		Save
1300	12/8	Siberian Elm	Ulmus pumila	non-native		Save
1301	13/7	Siberian Elm	Ulmus pumila	non-native		Save
1302	11	Siberian Elm	Ulmus pumila	non-native		Save
1303	10/10/8	Boxelder	Acer negundo	native		Save
1304	10	Siberian Elm	Ulmus pumila	non-native		Save
1305	10	American Elm	Ulmus americana	native		Save
1306	8	Siberian Elm	Ulmus pumila	non-native		Save
1307	10/6	Siberian Elm	Ulmus pumila	non-native		Save
1308	12	Siberian Elm	Ulmus pumila	non-native		Save
1309	12	Siberian Elm	Ulmus pumila	non-native		Save
1310	12/12/10/8	Siberian Elm	Ulmus pumila	non-native		Save
1311	10	Siberian Elm	Ulmus pumila	non-native		Save
1312	14	American Elm	Ulmus americana	native		Save
1313	18	Siberian Elm	Ulmus pumila	non-native		Save
1314	10	Siberian Elm	Ulmus pumila	non-native		Save
1315	15	Siberian Elm	Ulmus pumila	non-native		Save
1316	14/12	Siberian Elm	Ulmus pumila	non-native		Save
1317	10	Siberian Elm	Ulmus pumila	non-native		Save
1318	14	Siberian Elm	Ulmus pumila	non-native		Save
1319	13	Green Ash	Fraxinus pennsylvanica	native		Save
1320	14	Siberian Elm	Ulmus pumila	non-native		Off-Site
1321	16/15	Siberian Elm	Ulmus pumila	non-native		Save
1322	9	Quaking Aspen	Populus tremuloides	native		Remove
1323	16/10	Siberian Elm	Ulmus pumila	non-native		Remove
1324	20/15/10	Silver Maple	Acer saccharinum	native		Remove
1325	16/10	Silver Maple	Acer saccharinum	native		Remove
1326	15	Silver Maple	Acer saccharinum	native		Remove
1327	12/10	Silver Maple	Acer saccharinum	native		Remove
1328	16	Silver Maple	Acer saccharinum	native		Remove
1329	12/6/6	Silver Maple	Acer saccharinum	native		Remove
1330	12	Silver Maple	Acer saccharinum	native		Remove
1331	9	Silver Maple	Acer saccharinum	native		Remove

Total Inches: 2,106"
Allowed 30% Removal: 631"
Total Inches Removed: 1,677"
Total Inches to Mitigate: 1,046"
Common Tree Removal: 1,018"
Coniferous Tree Removal: 12"
Hardwood Tree Removal: 16"

Common Tree Removal: 1,018" Replace at a rate of 1/4: 1,018"/4=255"

Conifersous Tree Removal: 12" Replace at a rate of 1/2: 12"/2=6"

Hardwood Tree Removal: 16" Replace at a rate of 1/2: 16"/2=8"

Total Inches Required: 269"





Cara Geheren, P.E. 651.300.4261
Jack Griffin, P.E. 651.300.4264
Ryan Stempski, P.E. 651.300.4267
Chad Isakson, P.E. 651.300.4285

Date: September 3, 2014

To: Kyle Klatt, Planning Director
Cc: Nick Johnson, City Planner
From: Jack Griffin, P.E., City Engineer

Re: Hunters Crossing – Ryland Homes

Final Plat and Construction Plan Review

An engineering review has been completed for the Hunters Crossing development by Ryland Homes. A Final Plat and Grading Plan submittal was received on August 15, 2014. The submittal consisted of the following documentation prepared by Pioneer Engineering:

- Final Plat Application dated August 8, 2014.
- Final Plat, unsigned and undated.
- Final Grading Plan, dated July 28, 2014.
- Utility and Street Construction Plans, dated August 6, 2014.
- Project Manual for Utility and Street Construction, dated August 6, 2014.
- Stormwater Management Report, revised July 25, 2014.

STATUS/FINDINGS: The grading plans are of sufficient quality to allow grading operations to begin. A preconstruction meeting may be scheduled to initiate grading work. At the preconstruction meeting the applicant must submit all necessary permits including the VBWD permit, Project SWPPP, County R/W approvals, and adjacent property owner permissions and easements as outlined below.

Final Grading Plans and Utility and Street Construction Plans must be revised and resubmitted for final review and approval by the City prior to street and utility construction work.

FINAL PLAT:

- The Final Plat and Construction Plans should both be updated to include the Outlot ownership information. Outlots A, B and E must be dedicated to the City.
- Note: City utilities will be constructed within Outlot C as part of the first addition. All drainage and utility
 easements shown on the Plat must be dedicated to the City of Lake Elmo and recorded at Washington County
 as part of the First Addition Final Plat, including the drainage and utility easements over Outlot C.
- The Plat proposes a temporary roadway access to CSAH 17 (Lake Elmo Avenue) through a portion of Outlot
 C. A 50 foot temporary road easement should be provided to the City of Lake Elmo as part of the Final Plat
 to include the temporary access road.
- The Plat requires future access to 5th Street North with the temporary access road to be removed. Approval of the Final Plat should be contingent upon a fully executed development agreement securing the property and cost for the future construction of 5th Street.

PROJECT EASEMENTS:

- Provide written documentation from the adjacent property owner to the north agreeing to the grading and erosion control work to be completed on the property.
- Provide written documentation from the adjacent property owner to the east agreeing to the grading and storm sewer construction work and the direct storm water discharge onto the property at FES 1A. Permanent drainage and utility easements in the City standard form must be provided for the proposed storm pond outfall from Basin 1P.
- A 20 foot permanent drainage and utility easement in the City standard form should be provided along the southern plat line to accommodate the grading and storm sewer pipe proposed on the south property line.

GRADING, STORM WATER MANGEMENT AND EROSION CONTROL

- Add Note to see Standard Plan Notes for Grading and Erosion Control, Details 600A, 600B and 600C, on Erosion Control Detail Sheet.
- Add Note to see Standard Plan Notes for Site Restoration, Detail 600D, on Erosion Control Detail Sheet.
- Spot elevations need to be placed along the west side of Basin 601P to fully contain the 932.5 HWL contour on Outlot A. Based on contours only the HWL appears to extend into County R/W.
- The maintenance access to Basin 601P Basin must be changed to 15 feet in width. The City must receive documentation indicating County approval for permanent access to this facility.
- The Temporary Sediment Basins 401P, 101P and within the 3rd Street Cul-de-sac, should be relocated outside of future street areas to avoid temporary soil saturation in these areas.
- Grading revisions should be made along the south side of Outlot B to improve drainage and grade from the localized low area within the 932 contour. Consider a second drainage outlet to CSAH 17 R/W.
- Additional swale grade appears necessary along the rear property lines of Lots 1, 2 and 3, Block 4.
- The Grading Detail plan sheet must be updated to include the City Standard Typical Sections for 5th Street and Residential Streets and the custom typical sections removed to avoid conflicting section details.
- The Temporary Access Road Section should be updated to reflect a minimum 22 foot pavement width with 2 foot gravel shoulders.
- See EOR review memorandum regarding design and construction of the iron enhanced sand filters.

STORM SEWER SYSTEM

- City Standard Plan Notes for Storm Sewer, from Detail 400A, must be included on each Storm Sewer Construction Plan Sheet.
- Storm sewer design calculations must be submitted as part of the construction plans to verify compliance with minimum and maximum pipe velocities and discharges.
- A localized low point is created on Laverne Avenue. Additional catch basin inlets should be considered to enhance drainage in this area above typical 10-year event inlet capacity.
- Increase the pipe size to 15-inch diameter from CBMH-124 to CBMH-123.
- Remove "Inspector" from Note 2.
- The plans must be revised to better clarify between the Phase 1 and Phase 2 storm sewer plans.

SANITARY SEWER AND WATERMAIN

- Watermain oversizing will be required to meet City wide distribution system demands. Watermain must be increased to 12-inch pipe diameter along 5th Street, then south along Laverne Avenue, then east along 3rd Street, then south along the stub to the south property line. A 12" x 12" cross should be installed at the intersection of 5th Street and Laverne Avenue. Watermain oversizing is paid by the City as a reimbursement addressed within the development agreement.
- Rename the "Sanitary Sewer Construction" Plan Sheets to include Watermain.
- City Standard Plan Notes for Watermain, from Detail 200A, and Sanitary Sewer, from Detail 300A, must be included on each Utility Plan Sheet.

- The plans must be revised to better clarify between the Phase 1 and Phase 2 sanitary sewer and watermain. Add a temporary hydrant at each watermain end point for system maintenance.
- Replace the air bleed valve on Sheet 2 with a temporary hydrant on the watermain stub to the southern property line.
- Insert an 12" x 8" Tee fitting with a bend fitting on Sheet 2 along the 3rd Street watermain as the watermain turns south along the trail.

STREET CONSTRUCTION

- Replace the Typical 60-foot ROW Street Section on Sheets 12-14 with the City Standard Typical Section to remove all discrepancies from City Standards.
- Provide Typical ROW Street Section for Laverne Avenue from 4th Street to 5th Street.
- The Temporary Access road must be a minimum 22-feet in width for the bituminous and signed "No Parking" along both sides of the road.
- Replace the Typical 100-foot ROW Street Section on Sheet 16 with the City Standard Typical Section to remove all discrepancies from City Standards. Adjust all other plan documents as necessary to conform with the City typical section for 5th Street.
- City Standard Plan Notes for Sidewalks and Trails, from Detail 500A, must be included on each Street and Trail Plan Sheet.
- A Signing, Pavement Marking and Lighting Plan must be completed and incorporated as part of the Street and Utility Construction Plans. City Standard Plan Notes for Signing, Pavement Marking and Lighting, from Detail 700A, must be included on each Street and Trail Plan Sheet.

PROJECT MANUAL / SPECIFICATIONS AND STANDARD DETAILS

- The City Standard Specifications must be included in the Project Manual as the governing specifications for the Improvements. The general requirements shall state the following: "The City Standard Specifications shall apply to the work performed under this contract. Any supplemental specifications are intended to supplement the City Standard Specifications; however they do NOT supersede the City Standard Specifications, Details, Design Standards, or ordinances unless specific written approval has been provided by the City."
- Any additional specifications for the project shall be clearly identified as "Supplemental Provisions" not "Special Provisions".
- The General Project Requirements shall be revised to be consistent with the City Standard Specifications for general project requirements, and the project requirements as specified in the Development Agreement.
- The Project Manual shall include City standard grading and erosion control specifications and be issued and used as part of the grading operations for the Project.
- Standard Plan Note Details 200A, 300A, 400A, 500A, 600A-600D, and 700A are to be placed on each applicable plan sheet and removed from the detail plan sheets.
- Add Standard Details 101, 102, 103, 105, 201, 203, 204, and 402 to the Detail Plan Sheets.



<u>HUNTER'S CROSSING – DESIGN REVIEW REPORT</u> LAKE ELMO, MN

LANDSCAPE ARCHITECTURAL DESIGN REVIEW DATED SEPTEMBER 5TH, 2014

REVIEWED PLAN SET DATED AUGUST 8TH, 2014

Required Action Items by Hunter's Crossing Project Landscape Architect

1. The plan is **NOT** in compliance with the landscape requirements. Current drawing represents 575 caliper inches, required caliper inches is 784 assuming the street frontage, trees to be planted per acre as well as mitigation calculations provided are correct. City requirements are fair and reasonable therefore, one or a combination of the following recommendations must be met.

Recommendations:

- Revise design to preserve more existing trees. Therefore, reducing tree replacement requirements.
- Add more landscape materials on-site to meet landscape requirements.
- Increase caliper inches or height of trees already specified to comply with aggregate landscape requirements.
- Plant remaining required plant materials in a nearby City Park per City staff direction to meet landscape requirements.

(per tree preservation ordinance 154.257 8 a-d & landscape requirements 154.258)

- 2. 6 foot Evergreen Tree conversion to caliper inches = 2.5 inch deciduous shade tree if converted NOT 3 inch caliper inches as assumed on sheet L1.
- 3. Project Landscape Architect to provide landscape irrigation plans for all commonly held HOA & City R.O.W. areas.

SINCERELY.

LANDSCAPE ARCHITECTURE, INC.

STEPHEN MASTEY, ASLA, CLARB, LEED AP BD+C
DIRECTOR OF DESIGN



Public Works Department

Donald J. Theisen, P.E. Director

Wayne H. Sandberg, P.E. Deputy Director/County Engineer

September 2, 2014

Kyle Klatt
Community Development Director
City of Lake Elmo
3600 Laverne Avenue North
Lake Elmo, MN 55042

RE: Washington County comments on the Final Plat for Hunters Crossing residential development, City of Lake Elmo

Dear Mr. Klatt:

Thank you for providing the county with the final plat for the Hunters Crossing subdivision, in Section 34 ,Township 29N , Range 21W along County Road (CR) 17B/Lake Elmo Avenue in the City of Lake Elmo. The proposed plat consists of 22 residential lot and 5 outlots on 23.10 acres of land. Based on the plan provided, we have the following comments:

- The final plat submitted identifies 90 feet of right-of-way from the centerline of CR 17B. Although it is not the 92 feet required by the Washington County Comprehensive Plan 2040, this is an adequate amount. The County will be reevaluating the future right-of-way requirements along this section of roadway during the next Comprehensive plan update.
- The temporary access point on CR17 B is acceptable to the county on a short term/temporary basis. There is currently a right turn lane in place that can accommodate the north bound traffic. An access permit will be required for the temporary access.
- The developer or the city must submit the final drainage report and calculations to our office for review of any downstream impacts to the county drainage system. Along with the drainage calculations, we will request written conclusions that the volume and rate of stormwater run-off into the county right-of way will not increase as part of the project.
- Access control must be dedicated to Washington County along the CR 17B/Lake Elmo Avenue frontage.
- Although it may not be constructed during this phase, improvements to County Road (CR) 17B are required at the new 5th Street section. A Washington County Right-of-Way permit is required for the improvements which will include a northbound right turn lane and a southbound center left turn lane. A plan section will need to be prepared and approved by the county traffic engineer.

- As noted previously, Washington County's policy is to assist local governments in promoting compatibility between land use and highways. Residential uses located adjacent to highways often result in complaints about traffic noise. Traffic noise from this highway could exceed noise standards established by the Minnesota Pollution Control Agency (MPCA), the U.S. Department of Housing and Urban Development, and the U.S. Department of Transportation. Minnesota Rule 7030.0030 states that municipalities are responsible for taking all reasonable measures to prevent land use activities listed in the MPCA's Noise Area Classification (NAC) where the establishment of the land use would result in violations of established noise standards. Minnesota Statute 116.07, Subpart 2a exempts County Roads and County State Aid Highways from noise thresholds. County policy regarding development adjacent to existing highways prohibits the expenditure of highway funds for noise mitigation measures in such areas. The developer should assess the noise situation and take any action outside of County right of way deemed necessary to minimize the impact of any highway noise.
- Any grading within County right of way will require a Washington County Right of Way Permit.
- All utility connections for the development require Washington County Right of Way permits. Typically, these are the responsibility of the utility companies.

Thank you for the opportunity to comment on this concept plan. If you have any questions, please contact me at 651-430-4362 or ann.pung-terwedo@co.washington.mn.us

Regards,

Ann Pung-Terwedo

Senior Planner

Cc: Carol Hanson, Office Specialist

R/Plat Reviews/City of Lake Elmo/Hunters Crossing



July 31, 2014

Tracey Rust Ryland Homes 7599 Anagram Drive Eden Prairie, MM 55344

Re: Hunters Crossing—Lake Elmo, Minnesota VBWD Permit #2014-10

Dear Ms. Rust:

Enclosed is the Valley Branch Watershed District (VBWD) permit for your project. Please note the following conditions imposed by the Managers, which are also listed on the back of the permit.

- 1. This permit is not valid until a maintenance agreement in the general format of Appendix B of the VBWD Rules is submitted to and approved by the VBWD Attorney. The maintenance agreement shall include the inspection and maintenance of the iron-enhanced sand filters.
- 2. Prior to construction, the required surety shall be submitted. This permit is not valid until the permit fee and surety are submitted.
- 3. The Hunters Crossing permit applicant must obtain permission to perform any and all proposed work on land not owned by the applicant.
- 4. This permit is not transferable.
- 5. This permit is subject to obtaining all other permits required by governmental agencies having jurisdiction (including a NPDES permit).
- 6. The VBWD Engineer and Inspector shall be notified at least 3 days prior to commencement of work.
- 7. Erosion controls shall be installed prior to the commencement of grading operations and must be maintained throughout the construction period until turf is established. Additional erosion controls may be required, as directed by the VBWD Inspector or VBWD Engineer.

- 8. The following additional erosion controls shall be implemented on the site:
 - a. All proposed slopes 3 feet horizontal to 1 foot vertical (3H:1V) should be covered with erosion-control blanket.
 - b. Silt fence should follow existing contours as closely as feasible to limit the potential for gully erosion along the edges.
 - c. Any sediment that collects in storm sewers, ponds, or other water management features shall be removed.
 - d. If erosion occurs at the outlets of the storm sewer pipes, the applicant will be responsible for correcting the problem to the satisfaction of the VBWD.
- 9. To prevent soil compaction, the proposed infiltration area shall be staked off and marked during construction to prevent heavy equipment and traffic from traveling over it. If the infiltration facility is in place during construction activities, sediment and runoff shall be kept away from the facility, using practices such as diversion berms and vegetation around the facility's perimeter. The infiltration facility shall not be excavated to final grade until the contributing drainage area has been constructed and fully stabilized. The final phase of excavation shall remove all accumulated sediment and be done by light, tracked equipment to avoid compaction of the basin floor. To provide a well-aerated, highly porous surface, the soils of the basin floor shall be loosened to a depth of at least 24 inches to a maximum compaction of 85% standard proctor density prior to planting.
- 10. All disturbed areas shall be vegetated within 14 days of final grading.
- 11. The applicant is responsible for removal of all temporary erosion-control measures, including silt fence, upon establishment of permanent vegetation at the project site as determined by the VBWD Engineer and/or Inspector.
- 12. Valley Branch Watershed District shall be granted drainage easements which cover: (a) land adjacent to stormwater management facilities and lowlands up to their 100-year flood elevations and (b) all ditches, storm sewers, and maintenance access to the stormwater management facilities.
- 13. The required drainage easements and access easements shall be recorded with the Washington County Recorder's Office.
 - 14. The minimum floor elevations for all buildable lots in the development shall be recorded in a Declaration of Covenants and Restrictions or on the final plat.
 - 15. Return or allowed expiration of any remaining surety and permit close out is dependent on the permit holder providing proof that all required documents have been recorded (including but not limited to easements) and providing as-built drawings that show that the project was constructed as approved by the Managers and in conformance with the VBWD rules and regulations.

Thank you for your cooperation with the District's permit program.

Sincerely,

Uncoln Fetcher, Vice President Valley Branch Watershed District

LF/ymh Enclosure

c: Ray Marshall, VBWD Attorney

Ray Roemmich, VBWD Inspector

Molly Shodeen, MDNR

Kyle Klatt, City Planning Director—City of Lake Elmo

Jack Griffin, City Engineer, FOCUS Engineering—City of Lake Elmo

Building Inspector—City of Lake Elmo

Nathan Landucci, Owner

Nathan Campbell, Corps of Engineers

Brad Johnson, MDNR

Jed Chesnut, Washington Conservation District

Brooke Haworth MDNR

Ben Meyer, Minnesota Board of Water and Soil Resources

Karen Wold, Barr Engineering Company

Yvonne Huffman, Barr Engineering Company

P:\Mpls\23 MN\82\2382020_MovedFromMpls_P\2014\2014_10_HuntersCrossing\2014-10_PermitLtr_July2014.docx

VALLEY BRANCH WATERSHED DISTRICT PERMIT APPLICATION

TO BE COMPLETED BY VBWD:

PERMIT NUMBER 2014-10

PERMIT FEE RECEIVED \$8,111.54

DATE RECEIVED May 8, 2014

Return application to John Hanson Barr Engineering Company Engineers for the Valley Branch Watershed District 4700 West 77th Street Edina, MN 55435-4803



A permit fee shall accompany this permit, unless waived by the Board of Managers. (Governmental Bodies are not required to pay a fee.)

Project Information	Applicant Information	
Name of Project: Hunters Crossing Purpose of Project:	Name: Tracey Rust Ryland Homes Address:	
Residential Development		
	7599 Anagram Drive	
Project Location (street address, if known; otherwise,		
major intersection): 404 Lake Elmo Ave N	City, State, Zip:	
City or Township: Lake Elmo	Eden Prairie 55344	
Legal Description (proof of ownership required):	Phone: 952 229 6063	
PID: 3602921320002 Section: 36 Township: 29 Range: 21	Fax:	
Project Timeline: Start Date: July 1, 2014 Completion Date: Nov 30 2016	Email: trust@ryland.com	
Authorized Agent Information	Owner Information (if different than Applicant)	
Name:	Name: Nathan Landucci	
Business Name:	Address: 13230 20th St. Ct. N.	
Address:		
	City, State, Zip:	
City, State, Zip:	Stillwater MN 55082	
Phone:	Phone: 651 894 2582	
Fax:	Fax: 651-342-1049	
Email:	Email: LANDUCNL@ hotmail.com	

Once a Valley Branch Watershed District permit has been approved, the permit conditions will attached to the back of this form.

By signing this permit application, the permit applicant, his/her agent, and owner (hereinafter "Permittee") shall abide by all the conditions set by the Valley Branch Watershed District (VBWD). All work which violates the terms of the permit by reason of presenting a serious threat of soil erosion, sedimentation, or an adverse effect upon water quality or quantity, or violating any rule of the VBWD may result in the VBWD issuing a Stop Work Order which shall immediately cause the work on the project related to the permit to cease and desist. All work on the project shall cease until the permit conditions are met and approved by the VBWD representatives. In the event Permittee contests the Stop Work Order issued by the VBWD. Permittee shall attend a VBWD Board of Managers meeting and discuss the project. Any attorney fees, costs, or other expenses incurred on behalf of the VBWD in enforcing the terms of the permit shall be the sole expense of the permit applicant. Costs shall be payable from the permit applicant's permit fee. If said fees exceed the permit amount, the Permittee shall have ten (10) days from the date of receipt of the invoice from the VBWD to pay for the cost incurred in enforcing the permit, by which to pay the VBWD for said costs. If costs are not paid within the ten (10) days, the VBWD will draw on the permit applicant's surety. The Permittee agrees to be bound by the terms of the final permit and conditions required by the VBWD for approval of the permit. The permit applicant further acknowledges that he/she has the authority to bind the owner of the property and/or any entity performing the work on the property pursuant to the terms of the VBWD permit, and shall be responsible for complying with the terms of the VBWD permit.

Signatures (Required):

**Lickey Licket 517/14 Log 5/6/14

Applicant/Date Owner (If different than Applicant)/Date

Owner's Authorized Agent/Date

LINCOLN FETCHER - DAVID BUCHECK - DONALD SCHEEL - DALE BORASH - RAY LUCKSINGER

Station #13510 Laverne Ave. No. Lake Elmo, MN 55042
651-770-5006



Station #2 4259 Jamaca Ave. No. Lake Elmo, MN. 55042 651-779-8882

August 28, 2014

After review of the FINAL PLAT – HUNTER'S CROSSING, I have one area of concern and that is the "temporary access". I want to ensure that it will handle fire apparatus and is wide enough to allow two way traffic when we use it.

Hydrant spacing seems to be well within our guidelines and I was very pleased to see hydrants on 5th St. as they will be very beneficial.

Reviewed by

Greg Malmquist, Fire Chief

HUNTERS CROSSING

The Northwest Quarter of the Southwest Quarter of Section 36, Township 29 North, Range 21 West, Washington County, Minnesota, lying southerly of the following described "Line X":

KNOW ALL PERSONS BY THESE PRESENTS: That The Ryland Group, Inc., a Maryland Corporation, owner of the following described property:

Commencing at the West Quarter corner of said Section 36; thence South 00 degrees 02 minutes 54 seconds West, orientation of bearing system is assumed along the west line of said Northwest Quarter of the Southwest Quarter, a distance of 474.06 feet to the south line of North 474.06 feet of said Northwest Quarter of the Southwest Quarter; thence continuing along said west line, South 00 degrees 02 minutes 54 seconds West, a distance of 161.15 feet to the point of beginning of "Line X"; thence North 89 degrees 48 minutes 29 seconds East a distance of 406.17 feet; thence North 00 degrees 02 minutes 54 seconds East a distance of 161.15 feet, to the said south line of the North 474.06 feet; thence North 89 degrees 48 minutes 29 seconds East, along said south line, a distance of 912.76 feet to the east line of said Northwest Quarter of the Southwest Quarter of said "line X" there terminating.

EXCEPT that part of said Northwest Quarter of the Southwest Quarter described as follows:

Beginning at the southwest corner of said Northwest Quarter of the Southwest Quarter; thence East along the south line of said Northwest Quarter of the Southwest Quarter a distance of 16 Rods; thence North along a line parallel with the west line of said Northwest Quarter of the Southwest Quarter a distance of 10 rods; thence West on a line parallel with the south line of said Northwest Quarter of the Southwest Quarter a distance of 16 rods to said west line; thence South along said west line a distance of 10 rods to the point of beginning.

Has caused the same to be surveyed and platted as HUNTERS CROSSING and does hereby dedicate to the public for public use the public ways and the drainage and utility easements as created by this plat.

This instrument was acknowledged before me on this _______, by _______ its ______ of The Ryland Group, Inc., a Maryland Corporation, on behalf of the company.

Notary Public, ________

My Commission Expires _____

SURVEYOR'S CERTIFICATE

I Peter J. Hawkinson do hereby certify that this plat was prepared by me or under my direct supervision; that I am a duly Licensed Land Surveyor in the State of Minnesota; that this plat is a correct representation of the boundary survey; that all mathematical data and labels are correctly designated on this plat; that all monuments depicted on this plat have been set, or will be correctly set within one year; that all water boundaries and wet lands, as defined in Minnesota Statutes, Section 505.01, Subd. 3, as of the date of this certificate are shown and labeled on this plat; and all public ways are shown and labeled on this plat.

Dated this _____ day of ______ .

Peter J. Hawkinson, Licensed Land Surveyor

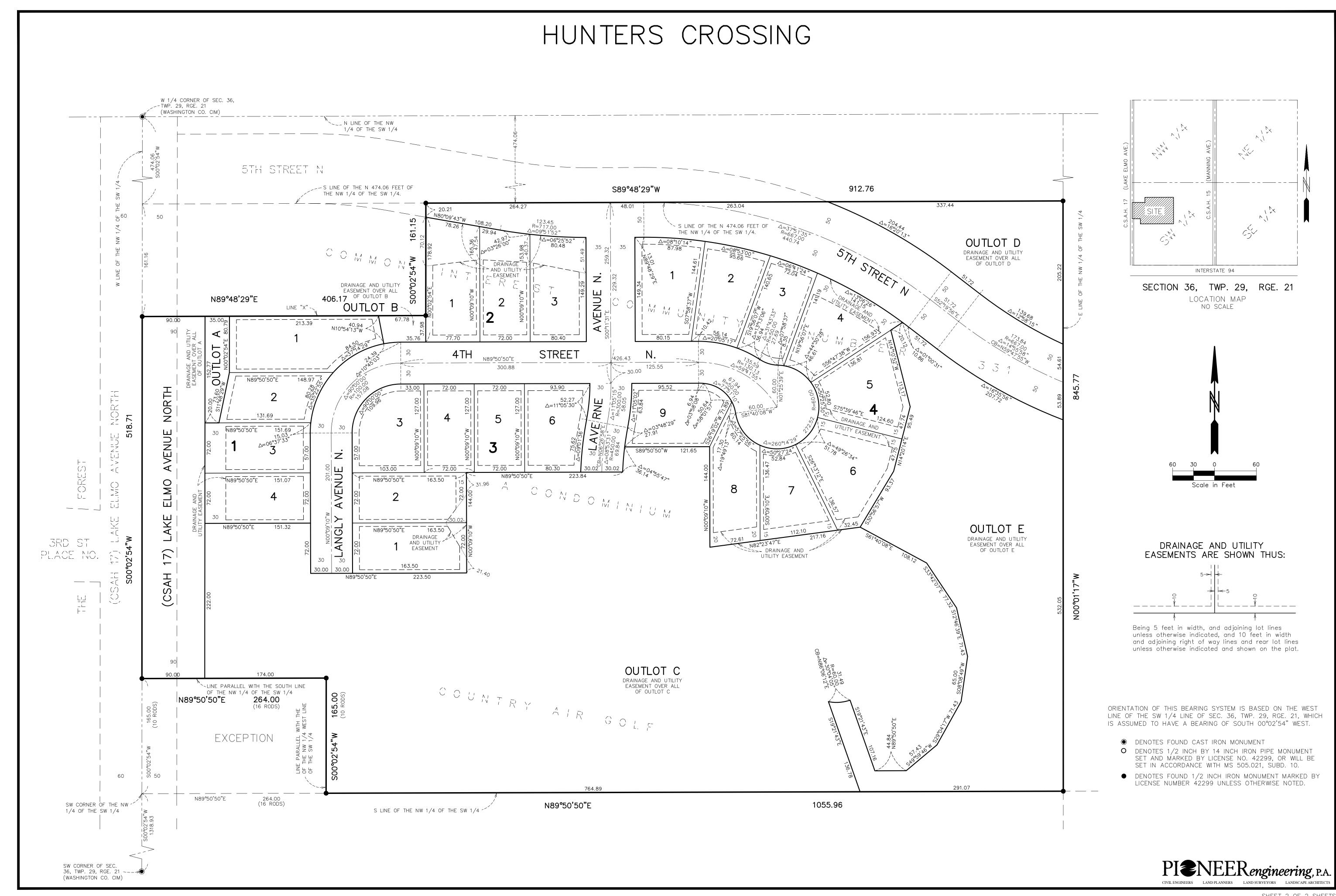
Minnesota License No. 42299

STATE OF MINNESOTA COUNTY OF	
This instrument was acknowledged before me on this	, by Peter J. Hawkinson, Licensed Land Surveyor.
	Notary Public,
	My Commission Expires
CITY COUNCIL, Lake Elmo, Minnesota	
This plat was approved by the City Council of the City o	f Lake Elmo, Minnesota, this day of,
20, and hereby certifies compliance with all requirer	ments as set forth in Section 505.03, Subd. 2, Minnesota Statutes.
By:	By:
Mayor	Clerk
Pursuant to Chapter 820, Laws of Minnesota, 1971, and reviewed and approved this day of	in accordance with Minnesota Statutes, Section 505.021, Subd. 11, this plat has been
By: Washington County Surveyor	By:
COUNTY AUDITOR/TREASURER, Washington	n County, Minnesota
	9., taxes payable in the year 20 on the real estate hereinbefore described have bee
B <i>y</i> :	By:
Washington County Auditor/Treasurer	Deputy
COUNTY RECORDER, Washington County, N	Minnesota
Document Number	
I hereby certify that this instrument was recorded in the 20, at o'clockM. and was duly recorded in the	Office of the County Recorder for record on this day of, ed in Washington County Records.
By:	By:

Deputy

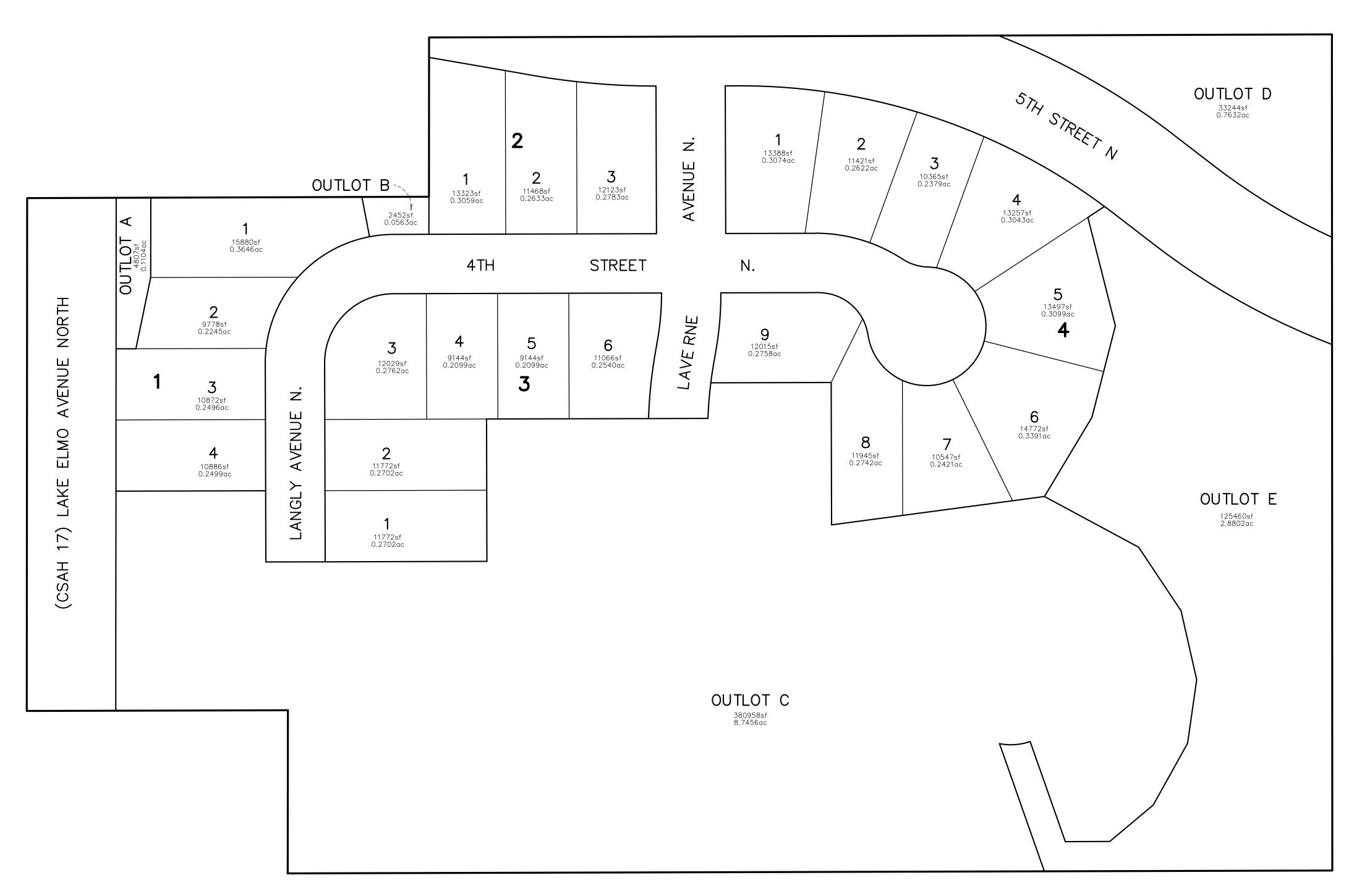
Washington County Recorder

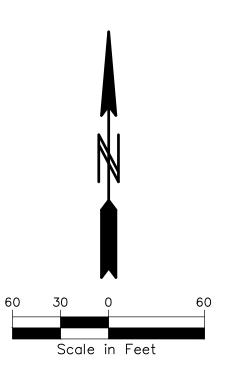




HUNTERS CROSSING

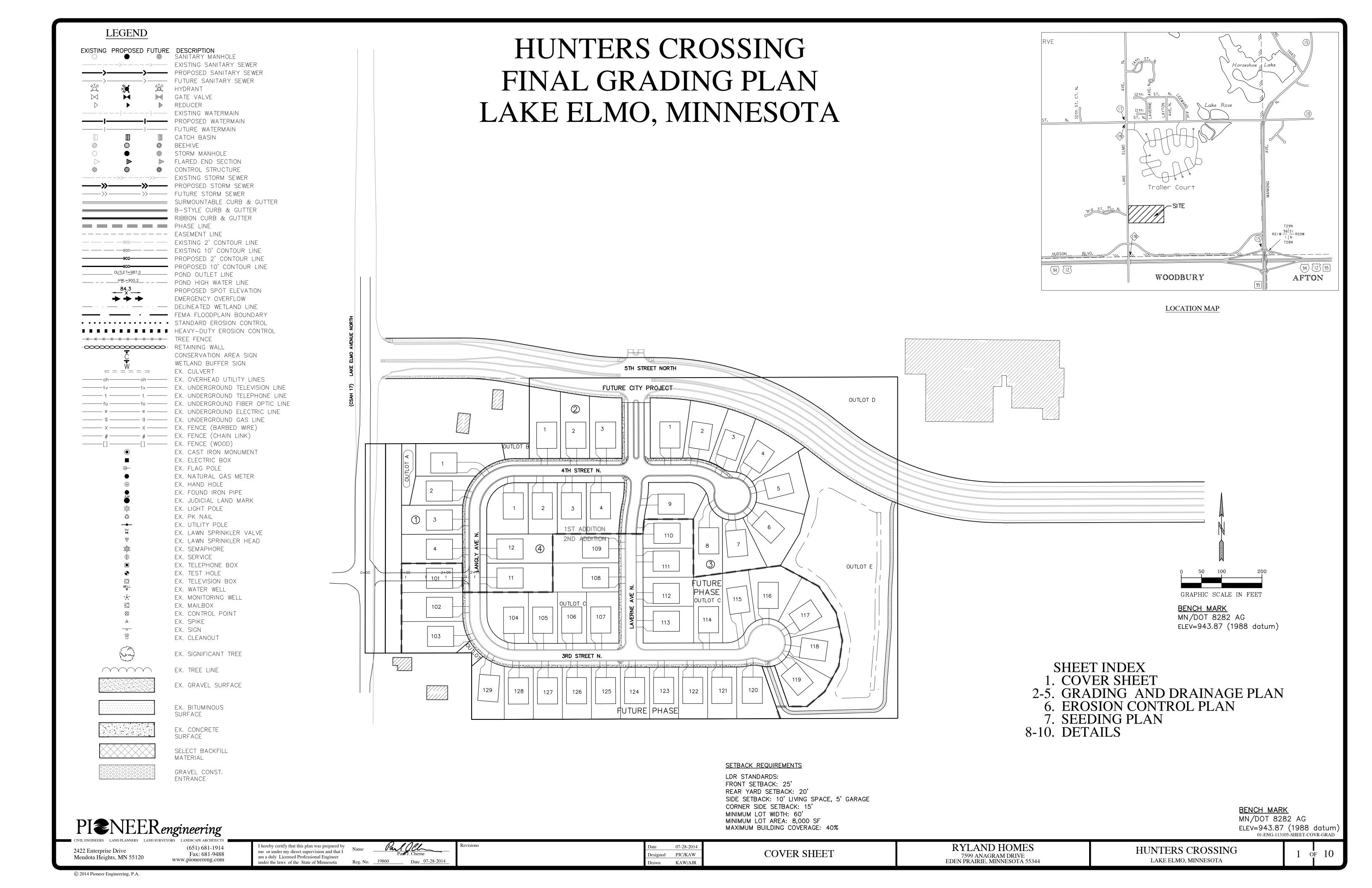
AREA SKETCH

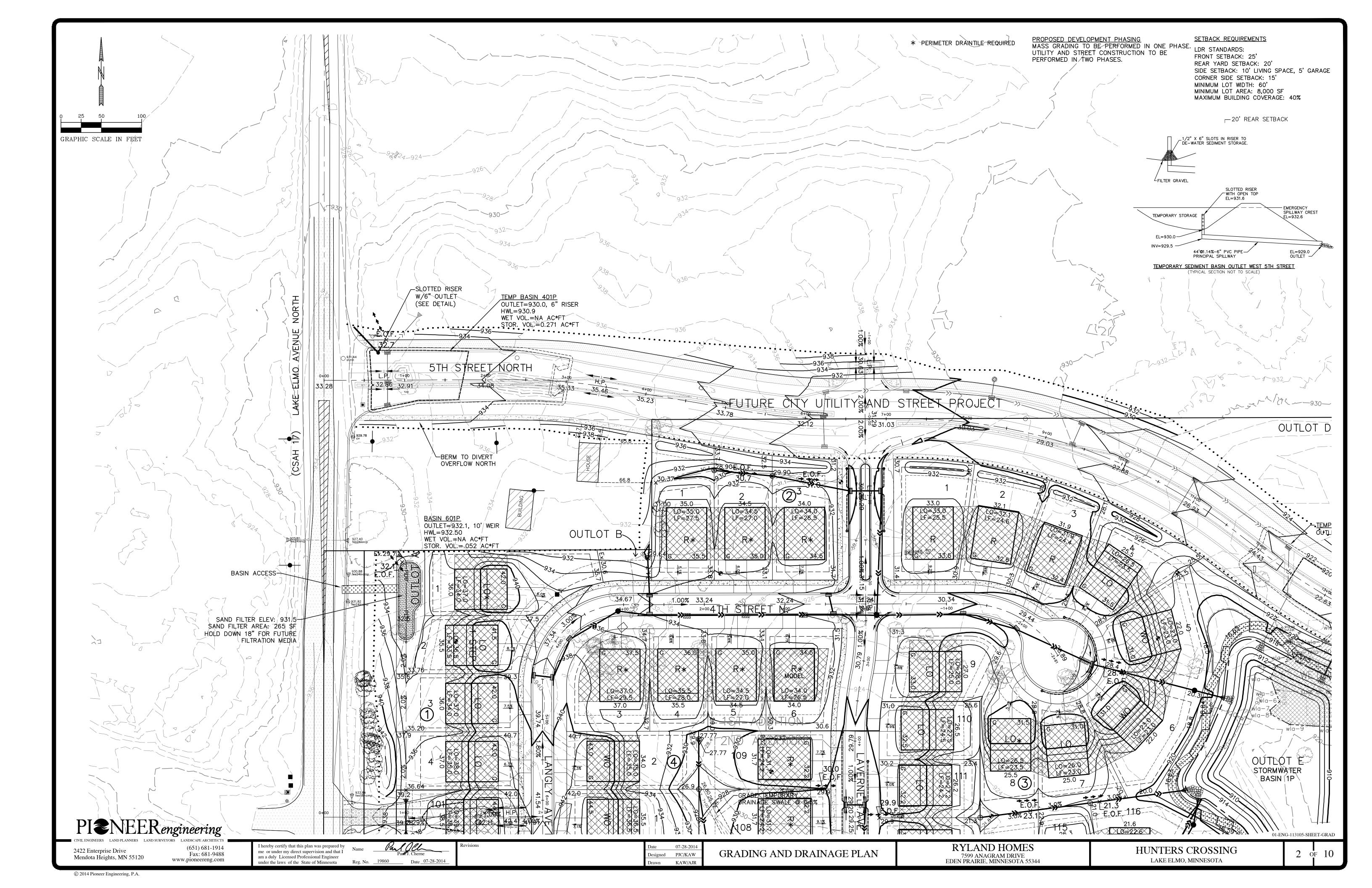


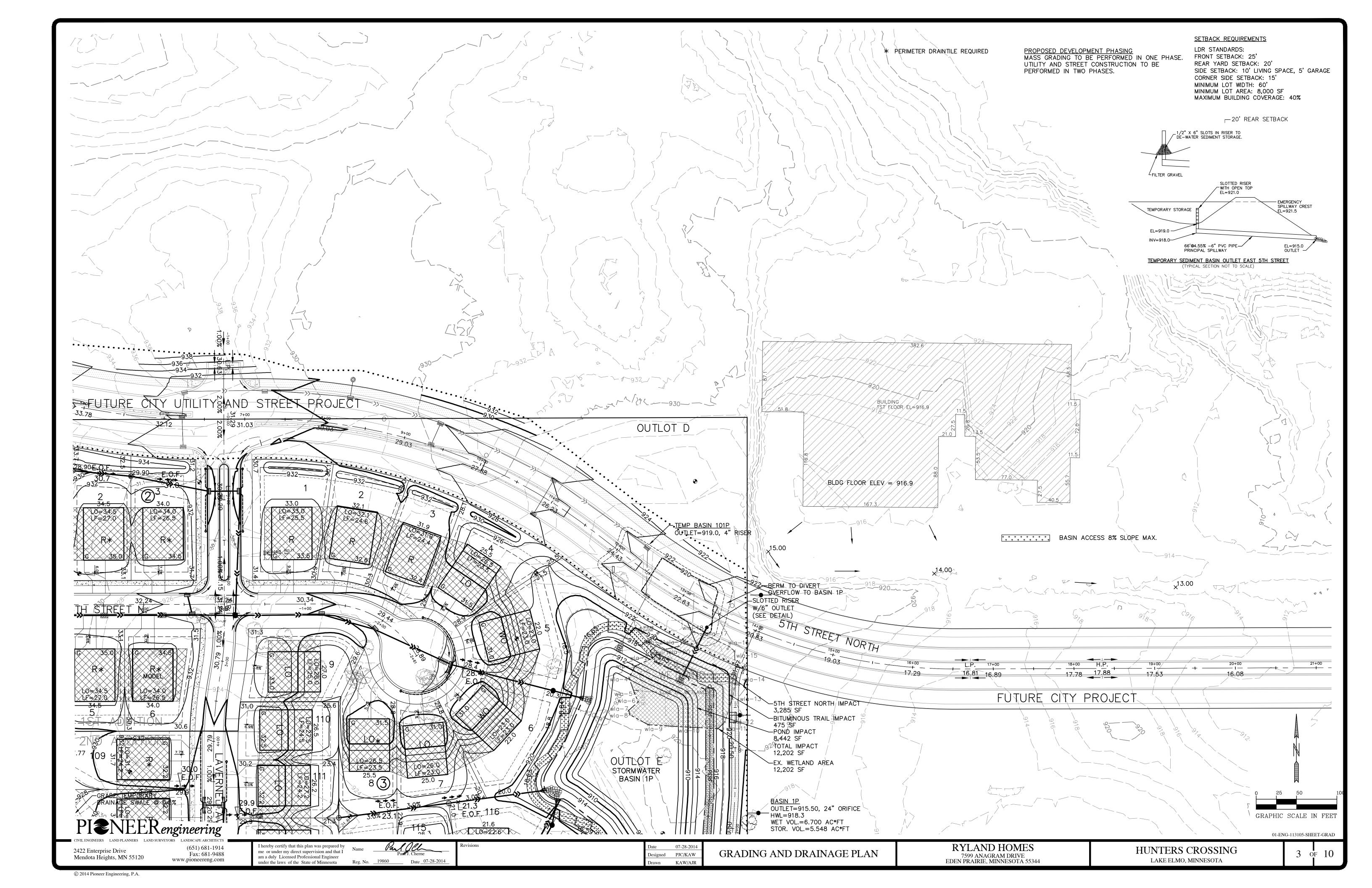


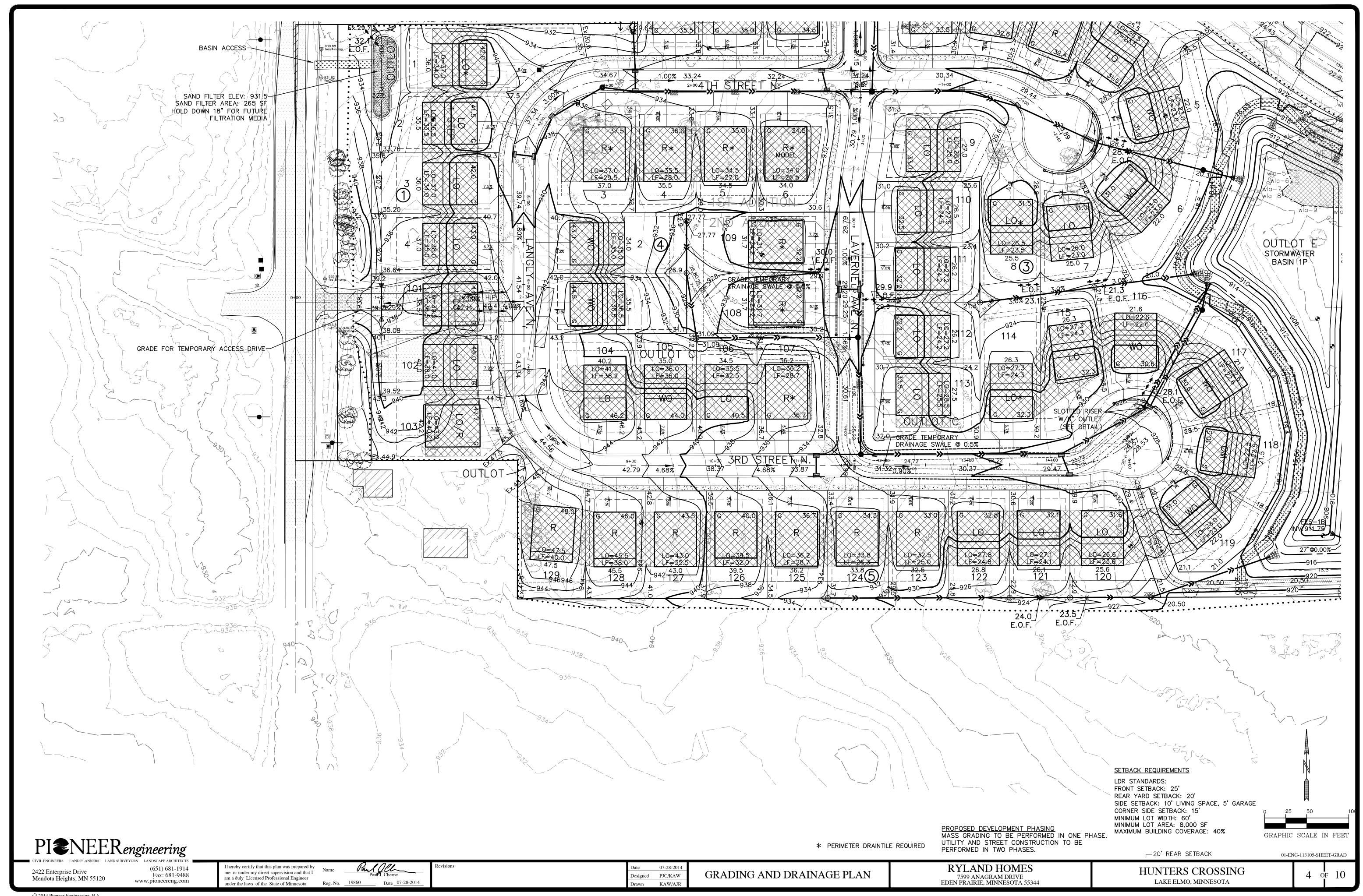
<u>area summary</u>				
BLOCK 1 = BLOCK 2 = BLOCK 3 = BLOCK 4 = TOTAL LOT AREA = TOTAL OUTLOT AREA = TOTAL R/W AREA = TOTAL AREA =	47,416 36,914 64,927 111,207 260,464 = 546,921 198,942 1,006,327	SF. SF. SF. SF. SF.	1.0886 0.8475 1.4904 2.5529 5.9794 12.5557 4.5671 23.1022	AC. AC. AC. AC. AC.

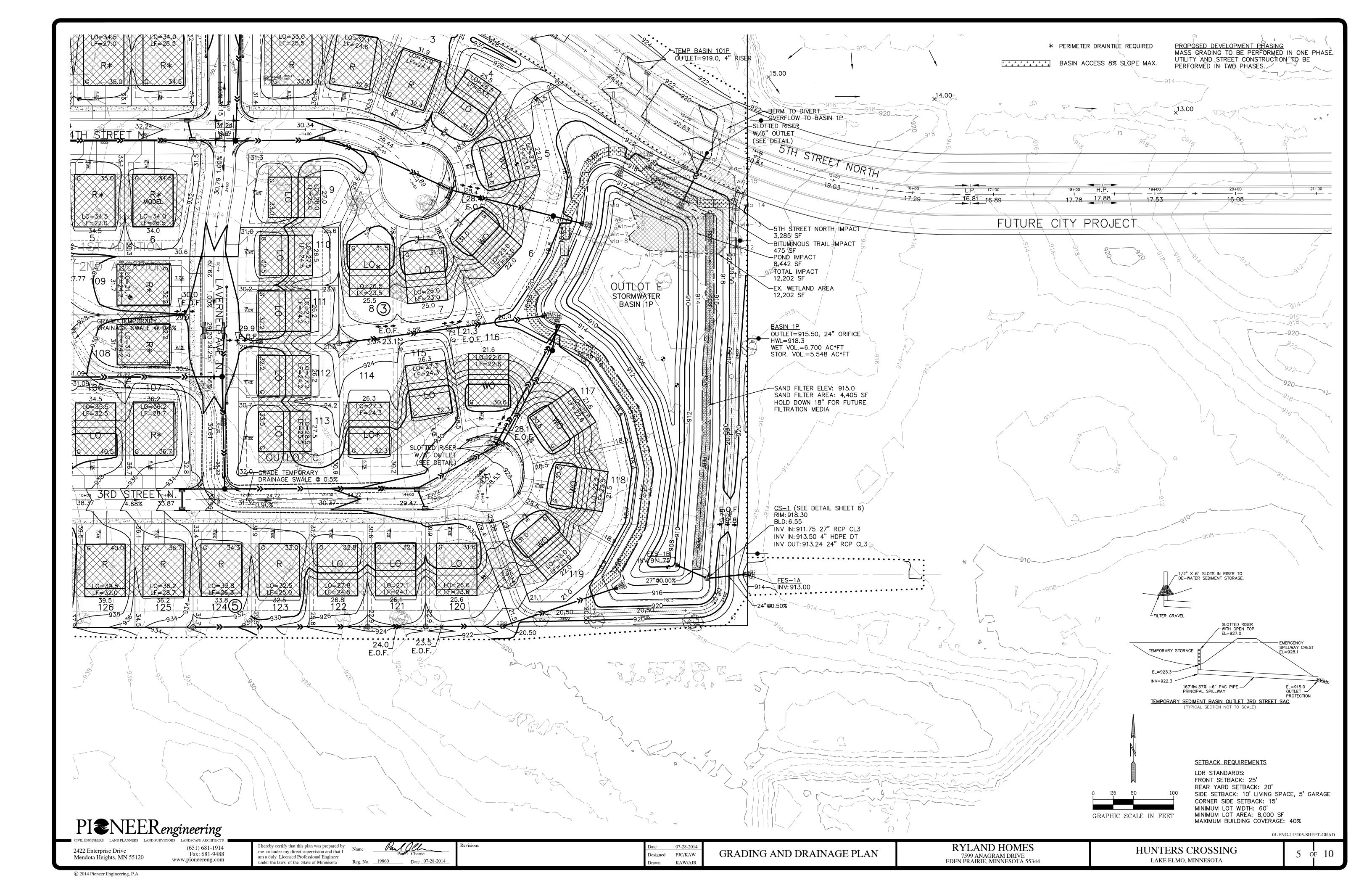


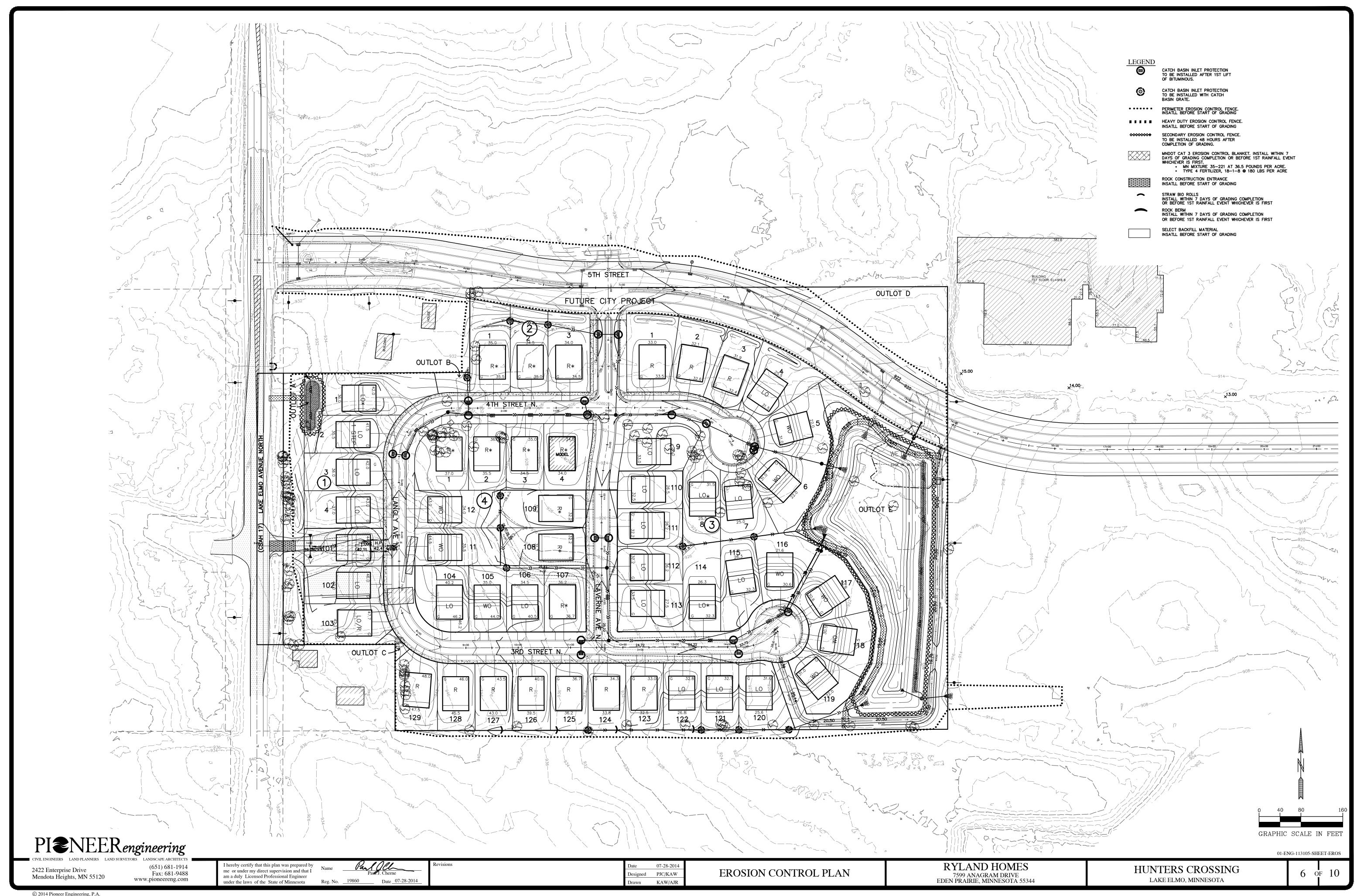


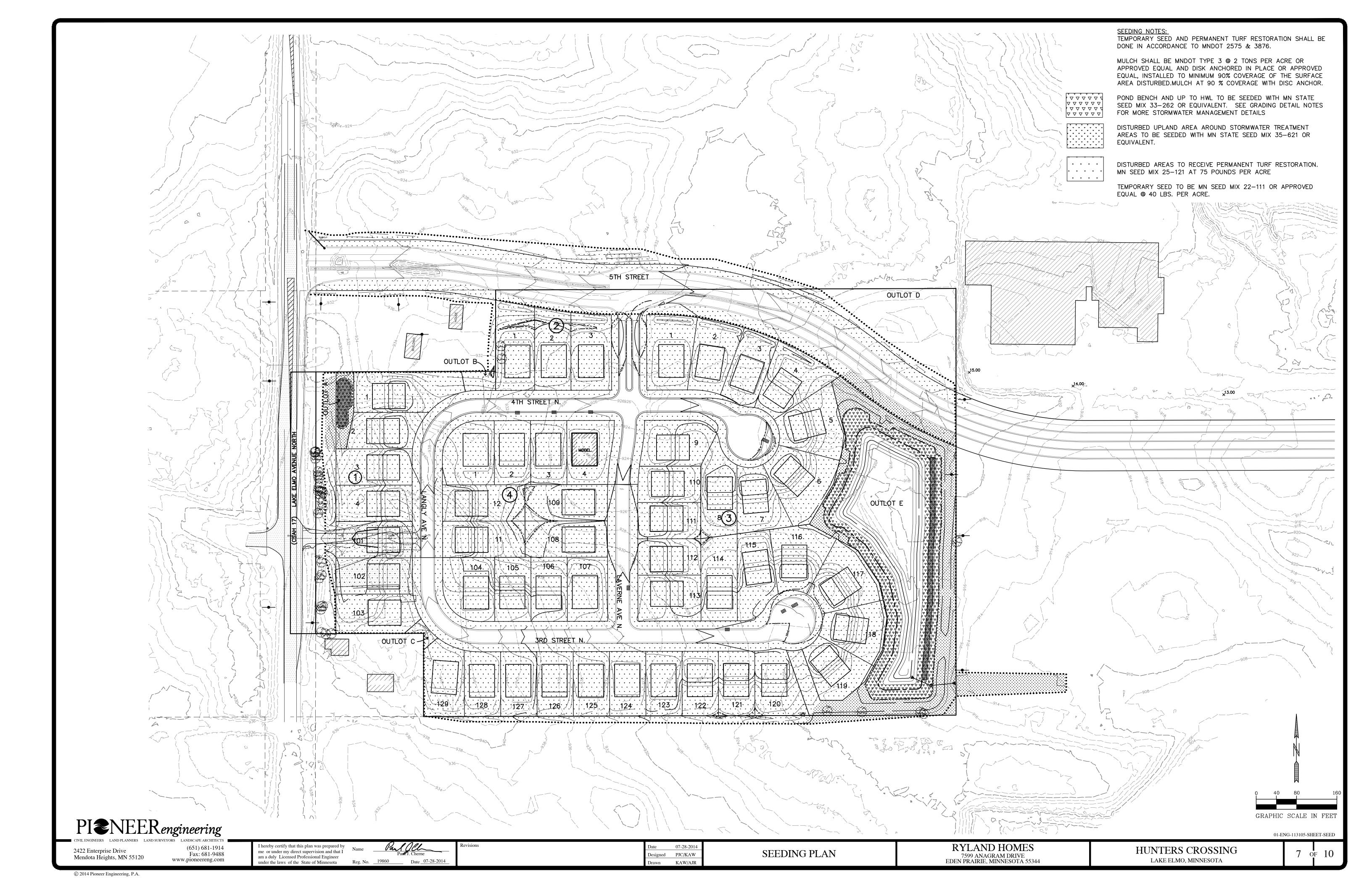


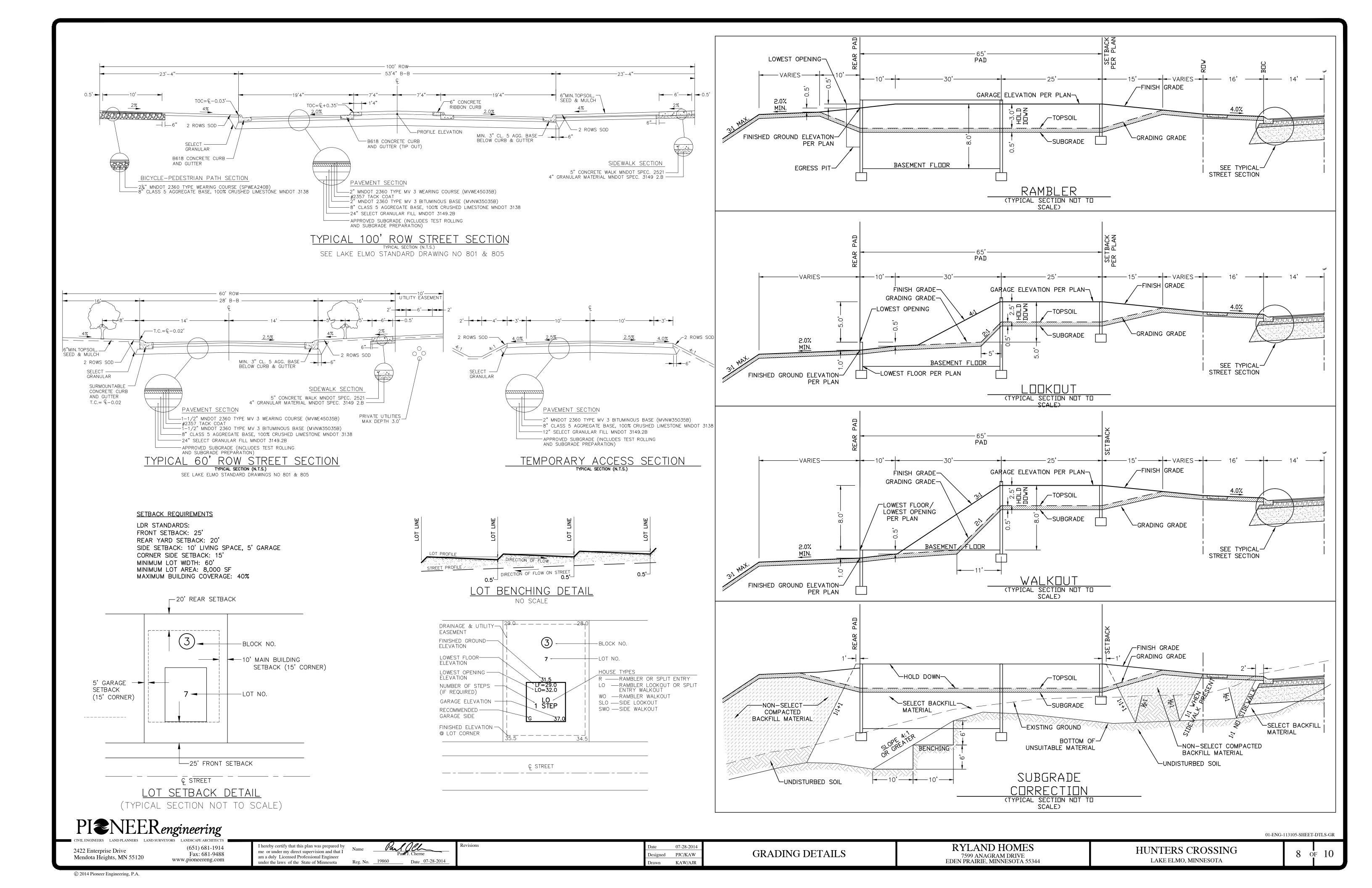












- 1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND IMPLEMENT MINNESOTA POLLUTION CONTROL AGENCY (MPCA) BEST MANAGEMENT PRACTICES (BMP) TO CONTROL SITE SILTATION AND EROSIÓN INTO DRAINAGE WAYS. THE CONTRÁCTOR SHALL COMPLY WITH ALL CONDITIONS AND COMPLETION DATES RELATIVE TO ALL PERMITS ISSUED FOR THE WORK TO BE COMPLETED. THE ENGINEER MAY ISSUE A STOP WORK ORDER FOR ALL DEVELOPMENT WORK AND BUILDING CONSTRUCTION FOR NONCOMPLIANCE WITH THESE MEASURES.
- 2. SEQUENCING. ALL SILT FENCE AND OTHER EROSION CONTROL MEASURES SHALL BE IN PLACE AND APPROVED BY ENGINEER PRIOR TO ANY REMOVALS, EXCAVATION OR CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED AND APPROVED BY THE ENGINEER.
- 3. SILT FENCE. THE CONTRACTOR SHALL INSTALL SILT FENCE AT THE LOCATIONS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE CITY STANDARD DETAILS. SILT FENCE DAMS AND INTERIM SUMPS SHALL BE PLACED TO INTERCEPT SILT FROM CONCENTRATED RUNOFF FROM OPEN GRADED AREAS. ADDITIONAL SILT FENCE SHALL BE REQUIRED AS DIRECTED BY THE ENGINEER.
- 4. STOCKPILES. ALL STOCKPILE AREAS SHALL HAVE SILT FENCE OR SEDIMENT TRAPPING SYSTEMS PLACED AROUND THE ENTIRE PERIMETER.
- 5. INLET PROTECTION. THE CONTRACTOR SHALL INSTALL INLET PROTECTION ON ALL EXISTING STORM SEWER INLETS IN ACCORDANCE WITH THE CITY STANDARD DETAILS. INLET PROTECTION SHALL ALSO BE PROVIDED ON ALL PROPOSED STORM SEWER INLETS IMMEDIATELY FOLLOWING CONSTRUCTION OF THE INLET. INLET PROTECTION MUST BE INSTALLED IN A MANNER THAT WILL NOT IMPOUND WATER FOR EXTENDED PERIODS OF TIME OR IN A MANNER THAT PRESENTS A HAZARD TO VEHICULAR OR PEDESTRIAN TRAFFIC.
- 6. TEMPORARY SEDIMENT BASINS. THE CONTRACTOR SHALL INCORPORATE TEMPORARY SEDIMENT BASINS THROUGHOUT THE CONSTRUCTION SITE TO CAPTURE RUNOFF AND SLOW THE FLOW OF WATER AND ALLOW SEDIMENT TO SETTLE OUT. TEMPORARY SEDIMENT BASINS SHALL BE INSTALLED AS DIRECTED BY THE CITY ENGINEER.
- 7. ROCK CONSTRUCTION ENTRANCE. A ROCK ENTRANCE SHALL BE CONSTRUCTED AND MAINTAINED AS SHOWN ON THE PLAN TO REDUCE TRACKING OF SILT AND DIRT ONTO THE PUBLIC STREETS. A GEOTEXTILE FABRIC SHALL BE PLACED UNDERNEATH THE ROCK. THE ROCK SHALL BE PERIODICALLY REPLENISHED TO MAINTAIN THE INTENDED PERFORMANCE, MUD AND DEBRIS SHALL BE REMOVED OR SCRAPED FROM TIRES AND VEHICLE UNDERCARRIAGE PRIOR TO LEAVING THE SITE.
- 8. STREET SWEEPING. ALL STREETS USED FOR ACCESS TO THE SITE AND HAUL ROUTES USED FOR CONSTRUCTION EQUIPMENT AND MATERIAL SUPPLIES SHALL BE CLEANED AT THE END OF EACH WORKING DAY. THE CITY OR ENGINEER MAY ORDER ADDITIONAL SWEEPING OF THE STREETS AS DEEMED REQUIRED AT DEVELOPER/CONTRACTOR EXPENSE.
- 9. POSITIVE DRAINAGE AND PROTECTION. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE SITE AT ALL TIMES. LOW POINTS WITHIN AND ALONG ROADWAYS ARE EXPRESSLY PROHIBITED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DITCHES, PIPING OR OTHER MEANS TO FACILITATE PROPER DRAINAGE DURING CONSTRUCTION. TO PROTECT PREVIOUSLY GRADED AREAS FROM EROSION, WOOD FIBER BLANKET SHALL BE PLACED IMMEDIATELY ON STEEP SLOPES (1:3 OR GREATER) AND EMBANKMENTS, PERMANENT AND TEMPORARY PONDS, AND OUTLETS AND OVERFLOWS TO PROTECT THE COMPLETED GRADE AND MINIMIZE SILT IN THE RUNOFF.

STANDARD PLAN NOTES

GRADING AND EROSION CONTROL PLANS

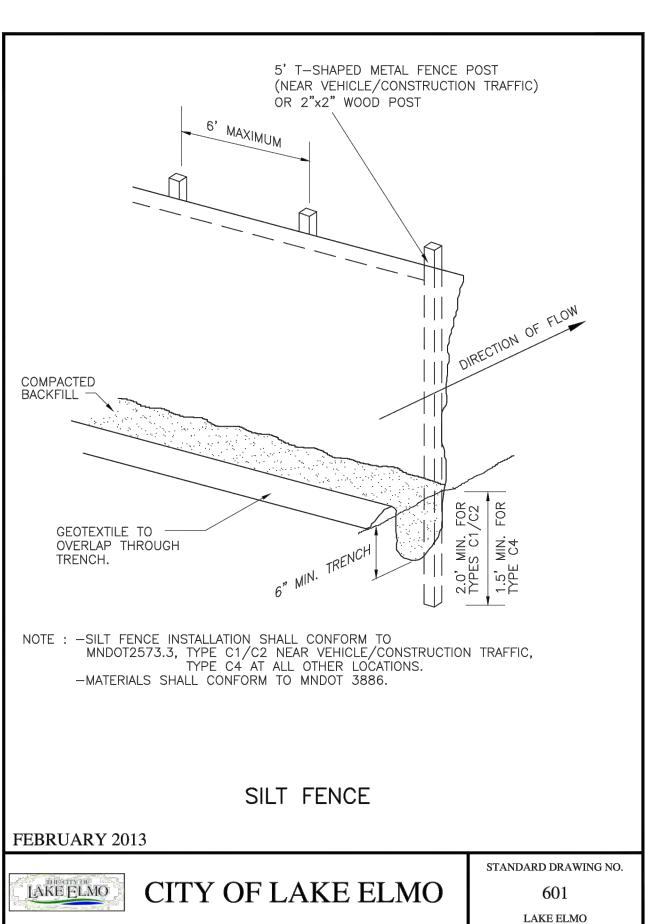
FEBRUARY 2013



CITY OF LAKE ELMO

STANDARD DRAWING NO. 600A

LAKE ELMO



- 10. DRAINAGE DITCHES. THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, MUST BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE. OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER, STABILIZATION OF THE LAST 200 LINEAL FEET MUST BE COMPLETED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER. STABILIZATION OF THE REMAINING PORTIONS OF ANY TEMPORARY OR PERMANENT DITCHES OR SWALES MUST BE COMPLETE WITHIN 14 DAYS AFTER CONNECTING TO A SURFACE WATER AND CONSTRUCTION IN THAT PORTION OF THE DITCH HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT DITCHES OR SWALES THAT ARE BEING USED AS A SEDIMENT CONTAINMENT SYSTEM (WITH PROPERLY DESIGNED ROCK DITCH CHECKS, BIO ROLLS, SILT DIKES, ETC.) DO NOT NEED TO BE STABILIZED. THESE AREAS MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM.
- 11. TURF ESTABLISHMENT. ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION BUT IN NO CASE LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- 12. MAINTENANCE AND INSPECTION, EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND UNTIL SATISFACTORY ESTABLISHMENT OF PERMANENT GROUND COVER IS OBTAINED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES, AND STORMWATER OUTFALLS MUST BE BE INSPECTED WEEKLY, AND WITHIN 24 HOURS OF THE SITE RECEIVING 0.5 INCHES OF RAIN. REPAIRS MUST BE MADE ON THE SAME DAY OR FOLLOWING DAY OF THE INSPECTION. UNSATISFACTORY CONDITIONS NOT REPAIRED OR CLEANED UP WITHIN 48-HOURS OF NOTIFICATION SHALL RESULT IN A STOP WORK ORDER, AND/OR SAID WORK SHALL BE COMPLETED AT CONTRACTOR'S EXPENSE.
- 13. REMOVAL, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TEMPORARY EROSION CONTROL MEASURES, STRUCTURES AND DEVICES ONLY AFTER RECEIVING ENGINEER APPROVAL. ALL DEBRIS, STAKES, AND SILTS ALONG SILT FENCES SHALL BE REMOVED AND DISPOSED OFF SITE. THE CONTRACTOR SHALL HAND RAKE SILTED AREAS ALONG THE FENCE LOCATIONS TO PROVIDE A SMOOTH FINAL GRADE AND SHALL RESTORE THE GROUND SURFACE WITH SEED OR SOD, AS REQUIRED, TO MATCH THE FINISHED GRADE TO THE ADJACENT AREA.
- 14. FINAL STORM SEWER SYSTEM. AT THE COMPLETION OF THE WORK AND BEFORE THE FINAL WALK THROUGH, THE CONTRACTOR SHALL REMOVE STORM SEWER INLET PROTECTION MEASURES AND THOROUGHLY FLUSH THE STORM SEWER SYSTEM. SEDIMENT AND DEBRIS SHALL BE COMPLETELY REMOVED AND CLEANED AT THE INLETS, OUTLETS, AND DOWNSTREAM OF EACH OUTLET. RIPRAP AND GEOTEXTILE FABRIC MAY REQUIRE REPLACEMENT AS DIRECTED BY THE ENGINEER TO OBTAIN A LIKE NEW INSTALLATION ACCEPTABLE TO THE CITY.
- 15. DITCH CHECK (BIOROLL BLANKET SYSTEM). BIOROLL AND BLANKET SYSTEMS SHALL BE BE INSTALLED AS DITCH CHECKS ONLY IN SPECIFIED LOCATIONS AS APPROVED BY THE CITY ENGINEER. BIOROLLS ARE NOT TO BE UTILIZED IN AREAS WHERE VEHICLE AND CONSTRUCTION TRAFFIC OCCUR.

STANDARD PLAN NOTES

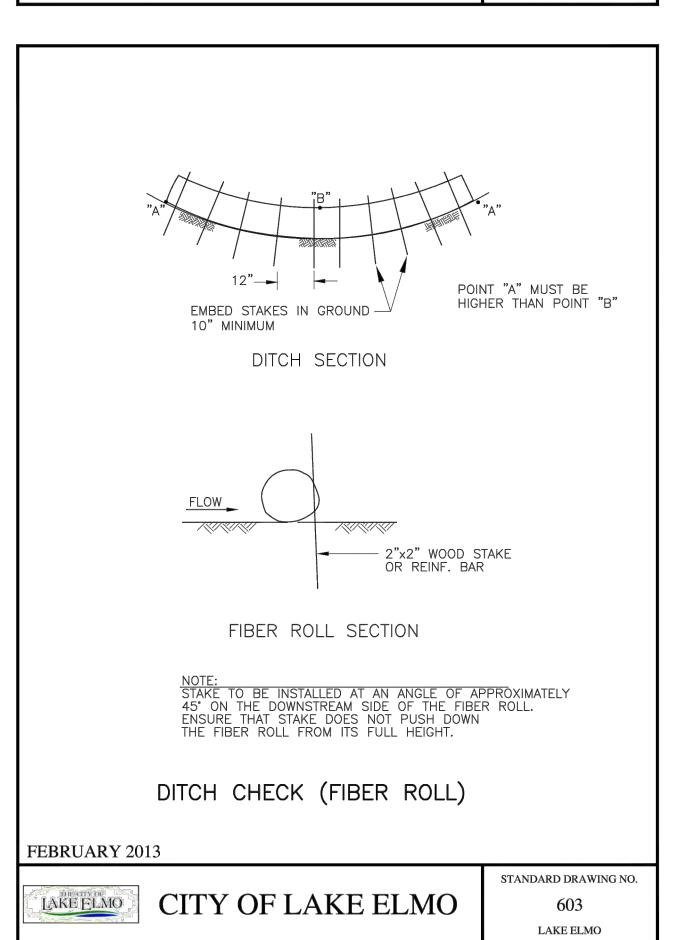
GRADING AND EROSION CONTOL PLANS

FEBRUARY 2013



CITY OF LAKE ELMO

STANDARD DRAWING NO 600B LAKE ELMO





17. CONCRETE WASHOUT ONSITE. ALL LIQUID AND SOLID WASTES GENERATED BY CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER. A COMPACTED CLAY LINER THAT DOES NOT ALLOW WASHOUT LIQUIDS TO ENTER GROUND WATER IS CONSIDERED AN IMPERMEABLE LINER. THE LIQUID AND SOLID WASTES MUST NOT CONTACT THE GROUND, AND THERE MUST NOT BE RUNOFF FROM THE CONCRETE WASHOUT OPERATIONS OR AREAS. LIQUID AND SOLID WASTES MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA REGULATIONS. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.

STANDARD PLAN NOTES

GRADING AND EROSION CONTOL PLANS

FEBRUARY 2013



CITY OF LAKE ELMO

600C LAKE ELMO

STANDARD DRAWING NO.

RESTORE ALL DISTURBED AREAS WITH 6 INCHES OF TOPSOIL CONFORMING TO MNDOT 3877.

PROTECT ALL STORM SEWER INLETS AS SPECIFIED HEREIN AND MAINTAIN UNTIL STREET CONSTRUCTION IS COMPLETED.

. MAINTAIN ALL SILT FENCE AND REPAIR OR REPLACE AS NEEDED OR REQUIRED UNTIL TURF HAS BEEN ESTABLISHED.

4. RESTORATION WORK SHALL BEGIN WITHIN 7 DAYS OF FINAL GRADING.

. A MINIMUM OF 2 ROWS OF SOD SHALL BE PLACED ADJACENT TO THE BACK OF CURBS ALONG ALL BOULEVARDS. SILT FENCE SHALL BE PLACED DIRECTLY BEHIND THE SOD IN ACCORDANCE WITH THE CITY STANDARD DETAILS.

BOULEVARD AND DITCH RESTORATION INCLUDES FINE GRADING, WHICH INCLUDES THE REMOVAL OF ROCKS, DEBRIS AND SOIL CHUNKS, WHILE MAINTAINING POSITIVE DRAINAGE.

STANDARD PLAN NOTES

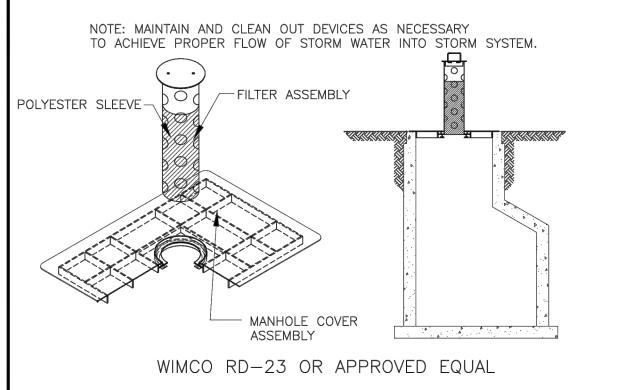
SITE RESTORATION PLANS

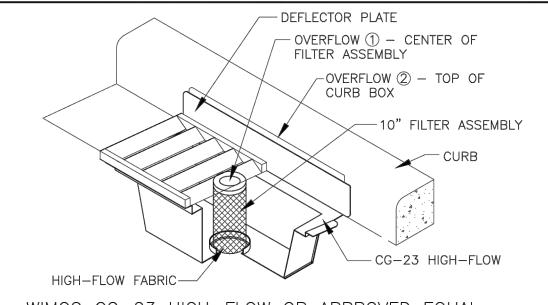
FEBRUARY 2013



CITY OF LAKE ELMO

STANDARD DRAWING NO. 600D LAKE ELMO





WIMCO CG-23 HIGH-FLOW OR APPROVED EQUAL

SEDIMENT CONTROL AROUND STORM SEWER INLET

FEBRUARY 2013

CITY OF LAKE ELMO

LAKE ELMO

STANDARD DRAWING NO.

WASHED ROCK GEOTEXTILE FABRIC -UNDERNEATH ROCK NOTES: (1) MAXIMUM WIDTH OF CONSTRUCTION ENTRANCE IS 24 FEET. 2 A MNDOT 3733 TYPE V GEOTEXTILE FABRIC SHALL BE USED UNDER THE ROCK TO PREVENT MIGRATION OF THE UNDERLYING SOIL INTO THE STONE. 3 CONSTRUCTION ENTRANCE IS REQUIRED FOR ALL NEW HOME CONSTRUCTION AND NEW STREET CONSTRUCTION. $^{f (4)}$ construction entrance shall be maintained to prevent tracking of mud ONTO ROADWAYS THAT ADJOIN THE PROJECT. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL ROCK OR REMOVAL AND REINSTALLATION OF THE 5 REMOVE MUD AND DEBRIS FROM TIRES AND VEHICLE UNDERCARRIAGE PRIOR TO LEAVING THE SITE.

ROCK CONSTRUCTION ENTRANCE

FEBRUARY 2013



CITY OF LAKE ELMO

STANDARD DRAWING NO. LAKE ELMO

01-ENG-113105-SHEET-DTLS-GR

PI NEER engineering 2422 Enterprise Drive

(651) 681-1914 Fax: 681-9488 www.pioneereng.com

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Date 07-28-2014

07-28-201

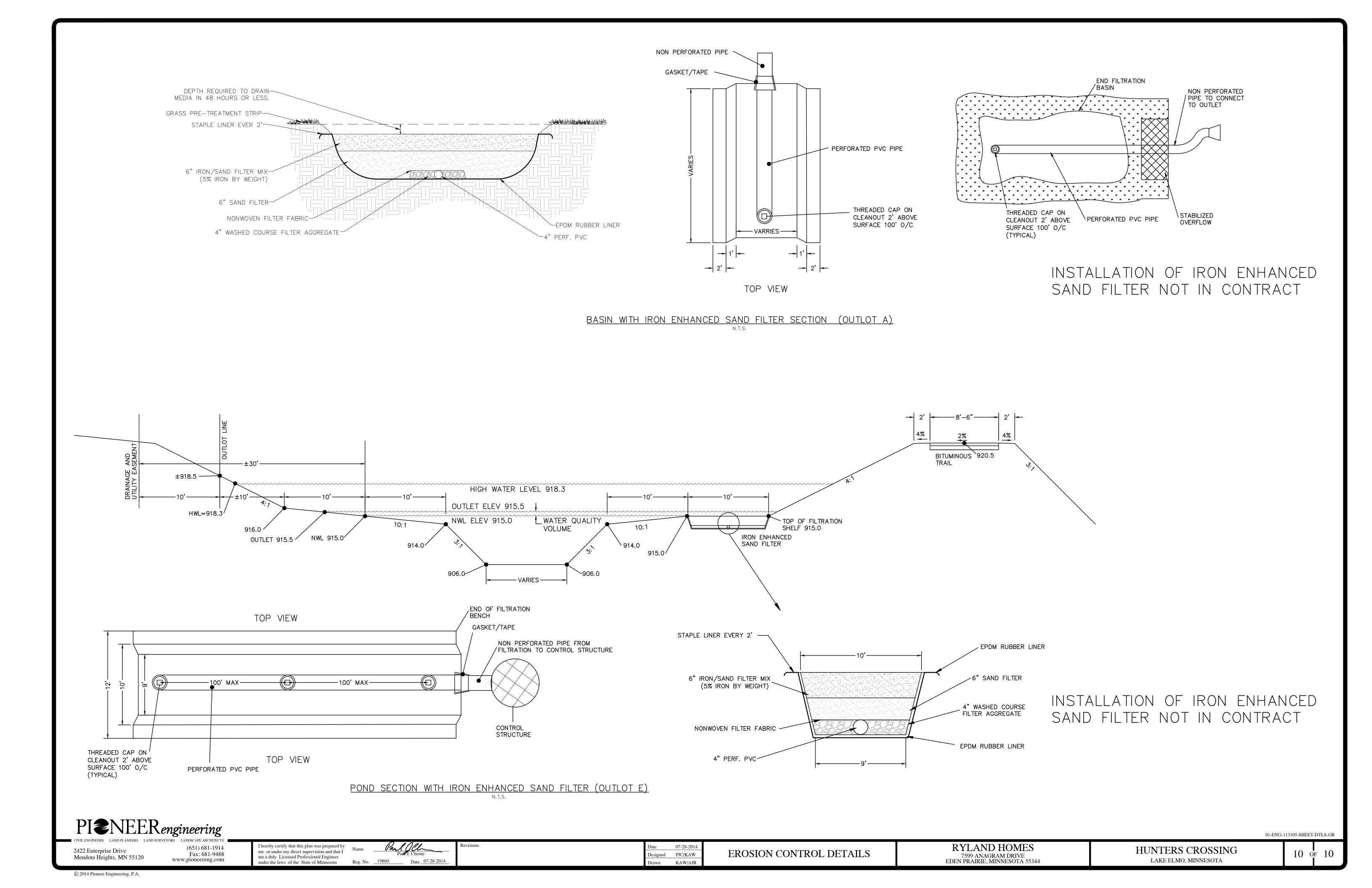
EROSION CONTROL DETAILS

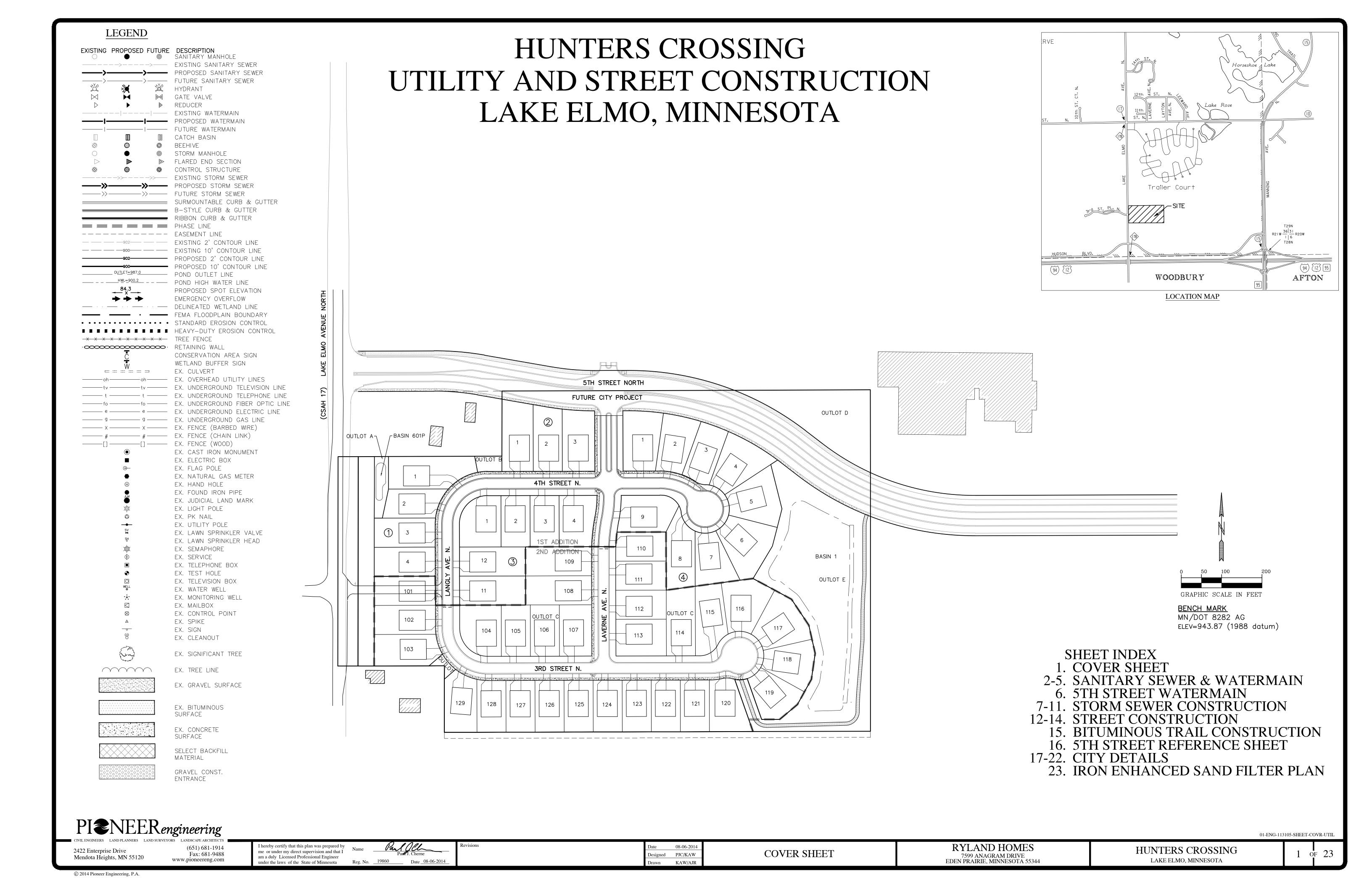
RYLAND HOMES 7599 ANAGRAM DRIVE EDEN PRAIRIE, MINNESOTA 55344

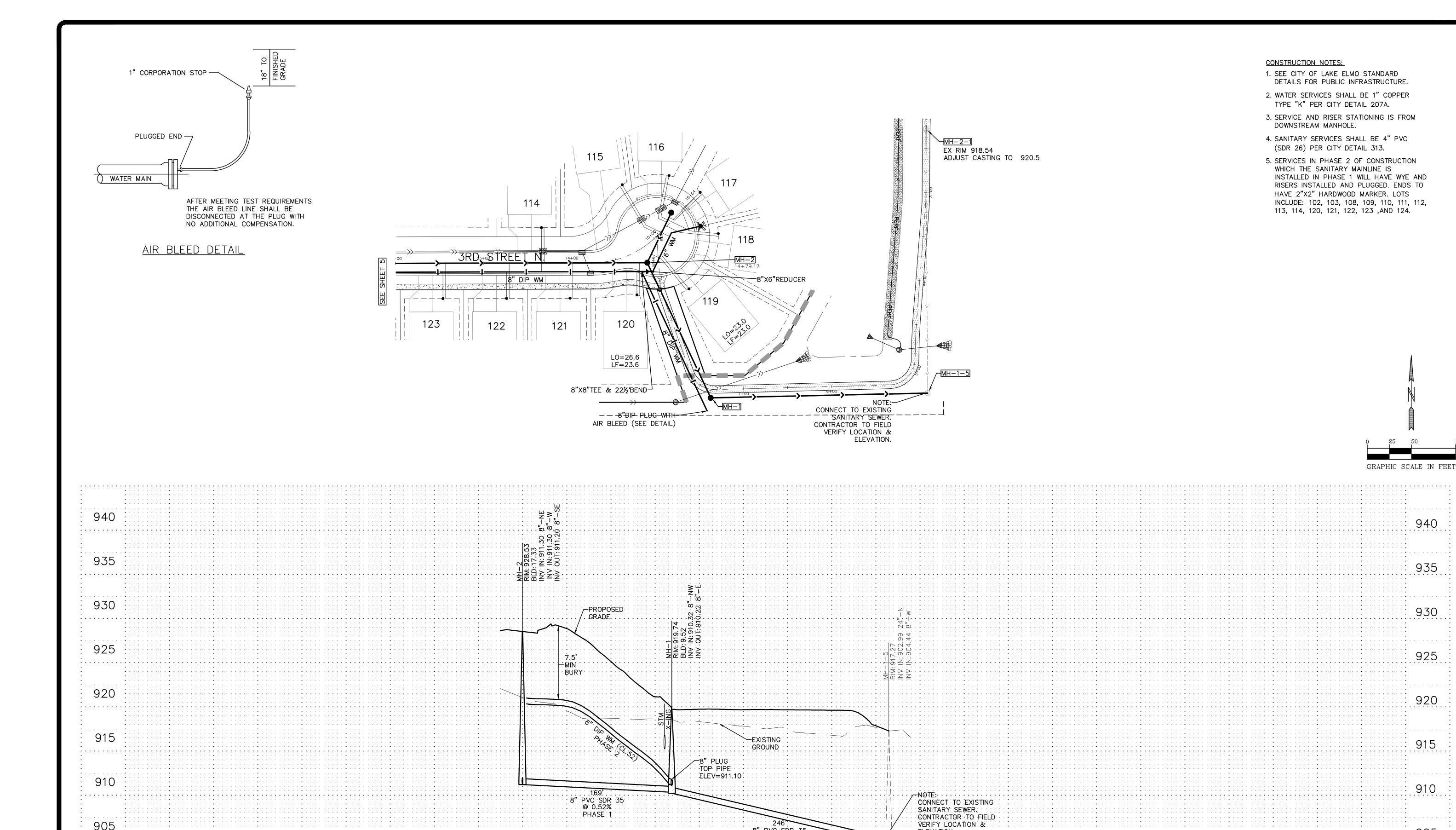
HUNTERS CROSSING LAKE ELMO, MINNESOTA

© 2014 Pioneer Engineering, P.A.

Mendota Heights, MN 55120







ELEV=943.87 (1988 datum 01-ENG-113105-SHEET-311 RYLAND HOMES
7599 ANAGRAM DRIVE
EDEN PRAIRIE, MINNESOTA 55344 **HUNTERS CROSSING**

SANITARY SEWER CONSTRUCTION

LAKE ELMO, MINNESOTA

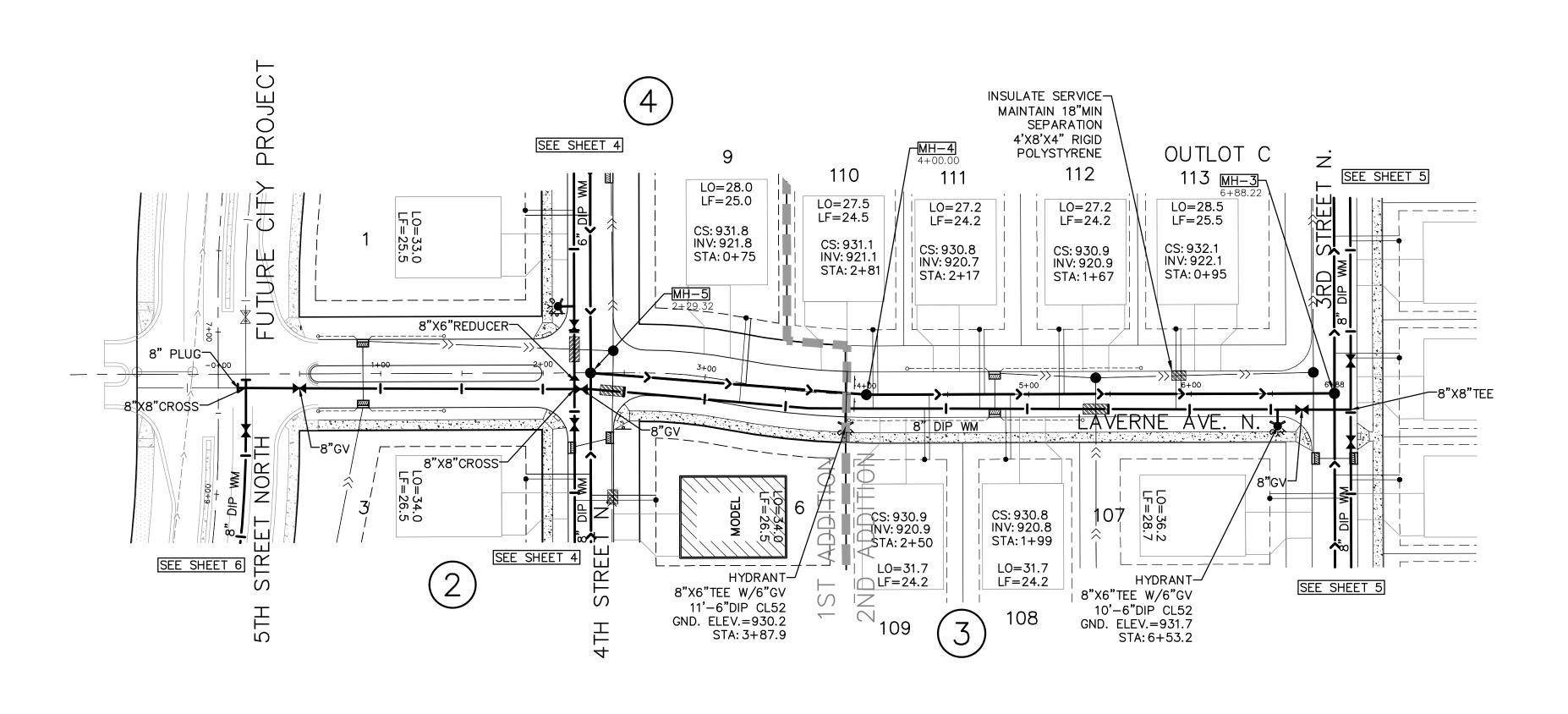
2422 Enterprise Drive Mendota Heights, MN 55120

me or under my direct supervision and that I am a duly Licensed Professional Engineer

under the laws of the State of Minnesota

Fax: 681-9488

www.pioneereng.com

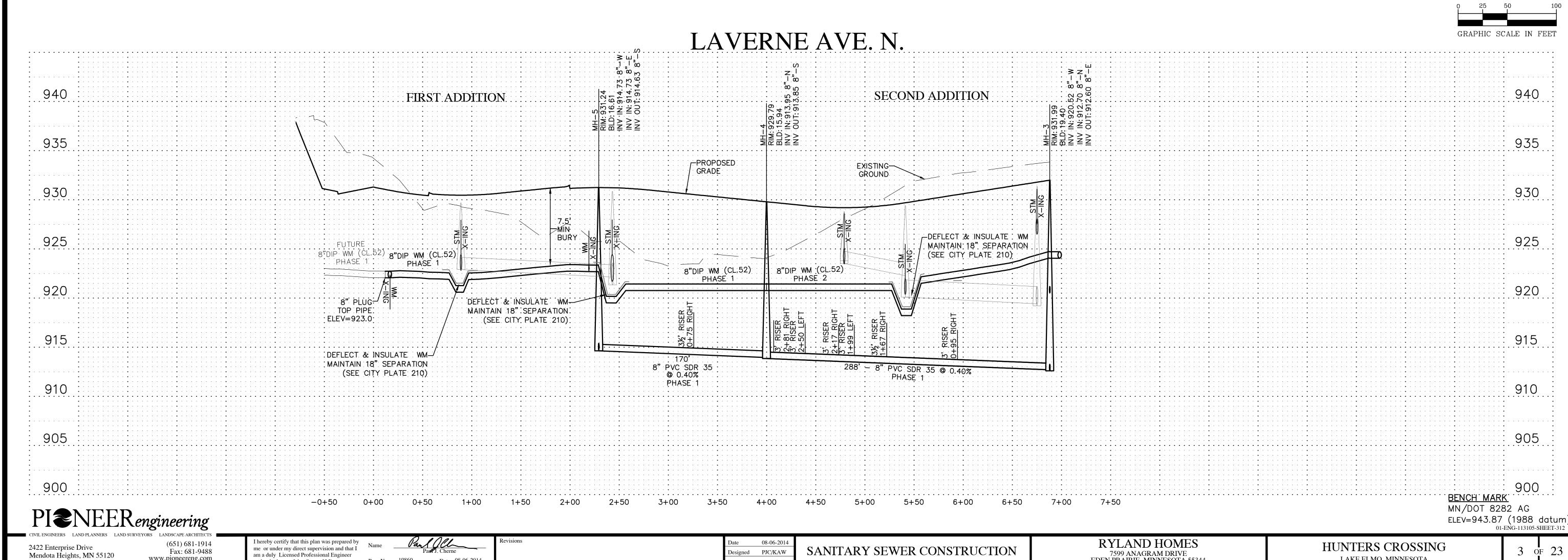


CONSTRUCTION NOTES:

LAKE ELMO, MINNESOTA

EDEN PRAIRIE, MINNESOTA 55344

- 1. SEE CITY OF LAKE ELMO STANDARD DETAILS FOR PUBLIC INFRASTRUCTURE.
- 2. WATER SERVICES SHALL BE 1" COPPER TYPE "K" PER CITY DETAIL 207A.
- 3. SERVICE AND RISER STATIONING IS FROM DOWNSTREAM MANHOLE.
- 4. SANITARY SERVICES SHALL BE 4" PVC (SDR 26) PER CITY DETAIL 313.
- 5. SERVICES IN PHASE 2 OF CONSTRUCTION WHICH THE SANITARY MAINLINE IS INSTALLED IN PHASE 1 WILL HAVE WYE AND RISERS INSTALLED AND PLUGGED. ENDS TO HAVE 2"X2" HARDWOOD MARKER. LOTS INCLUDE: 102, 103, 108, 109, 110, 111, 112, 113, 114, 120, 121, 122, 123 ,AND 124.

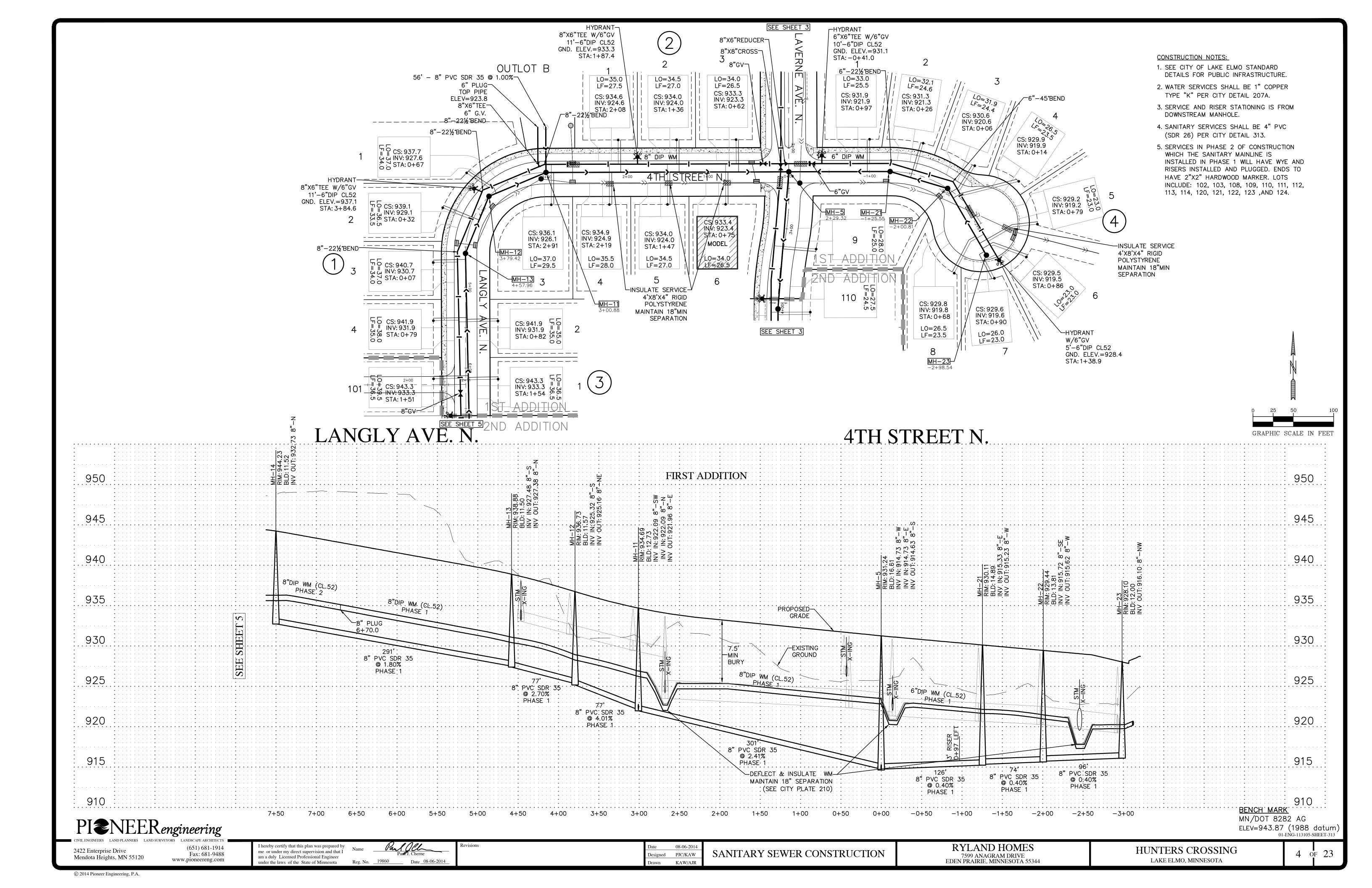


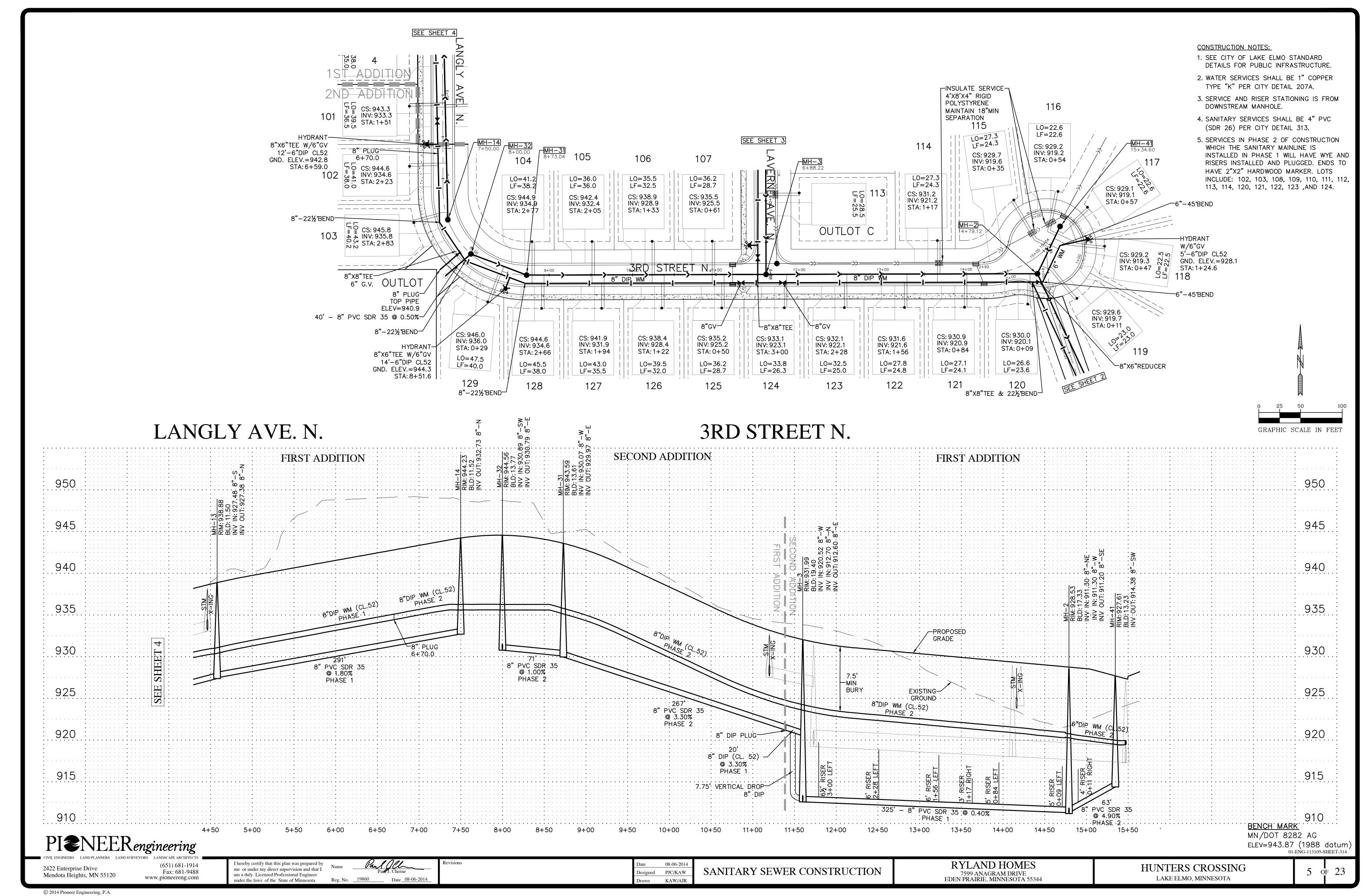
SANITARY SEWER CONSTRUCTION

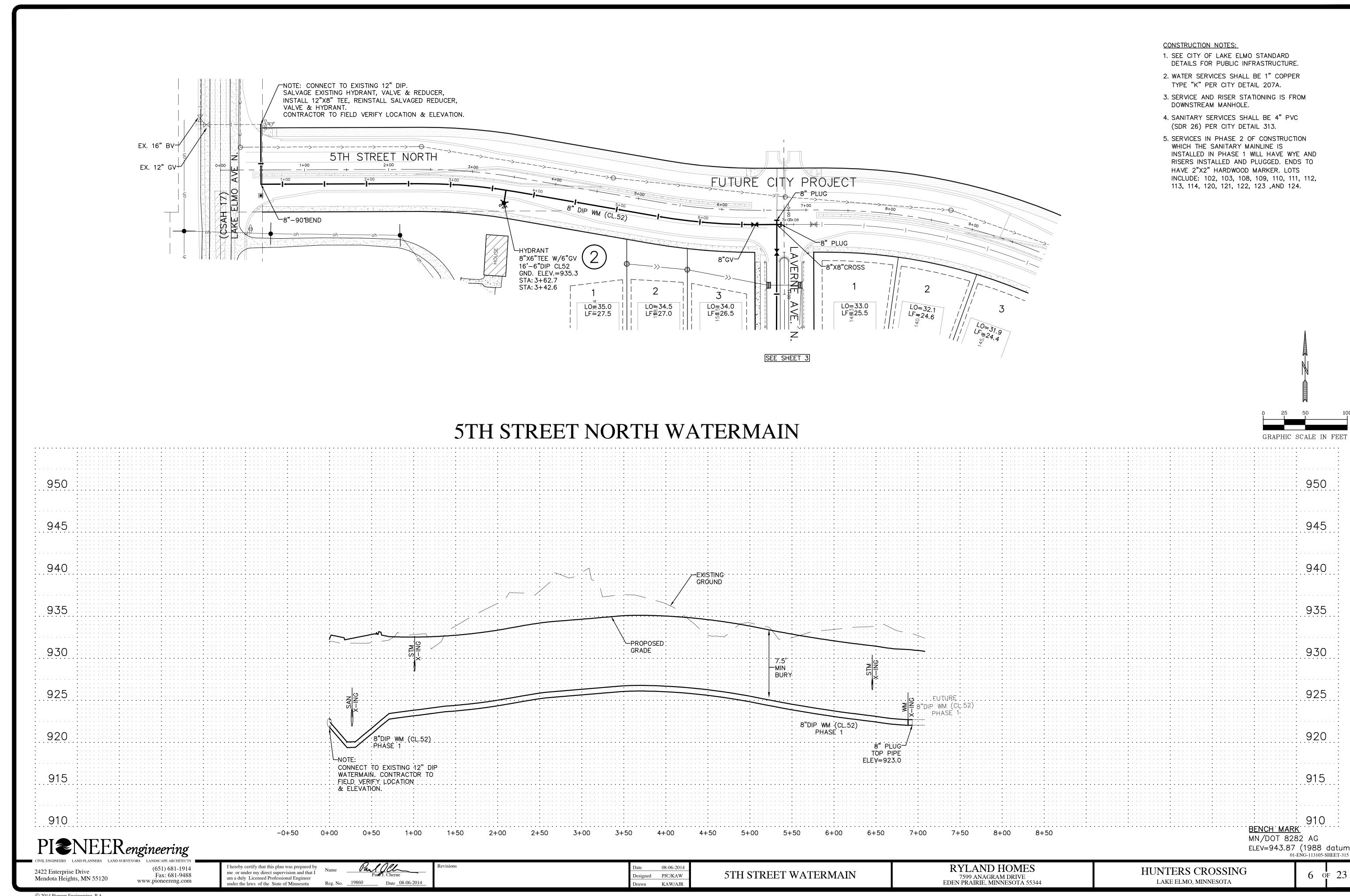
Fax: 681-9488

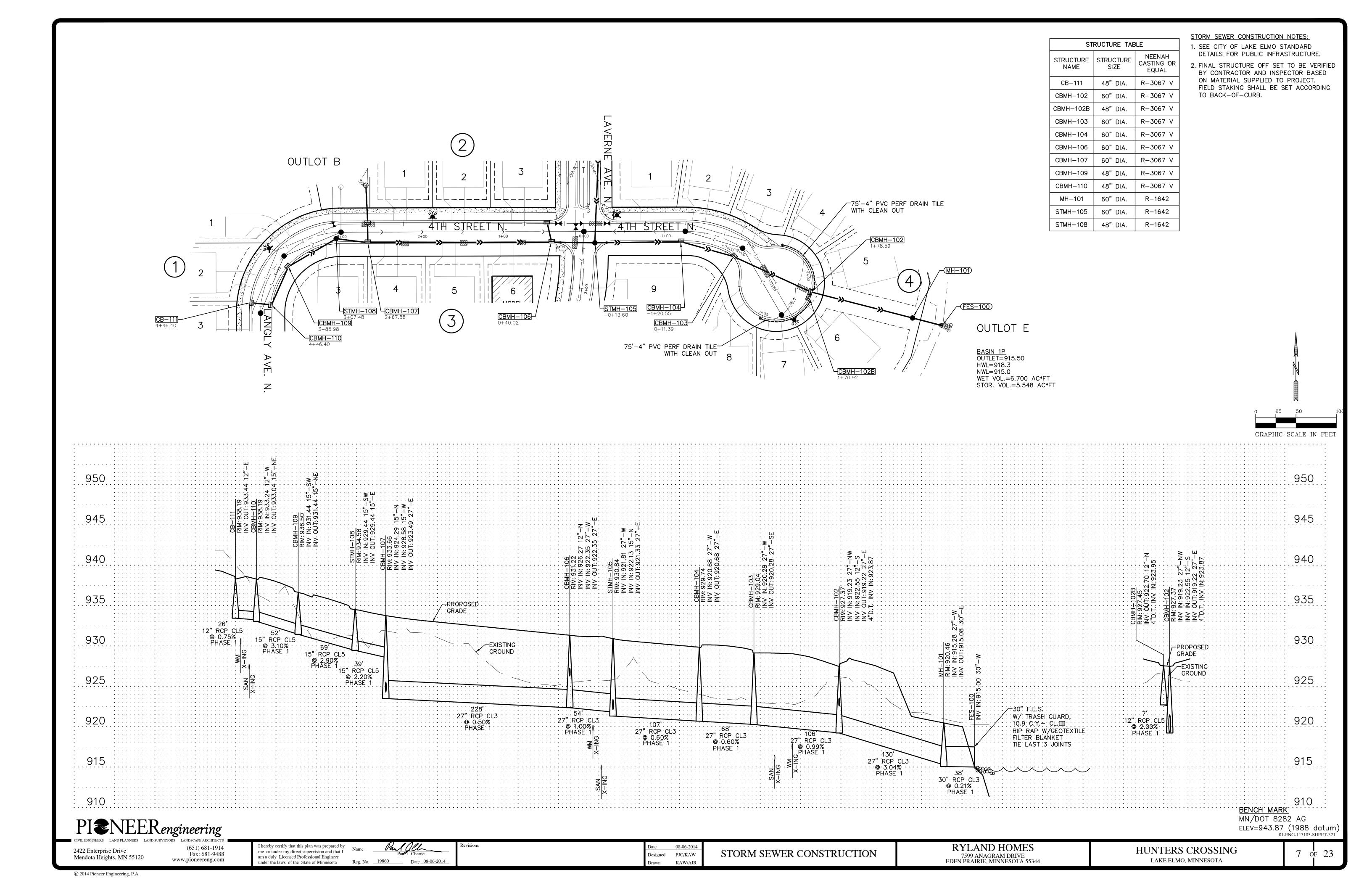
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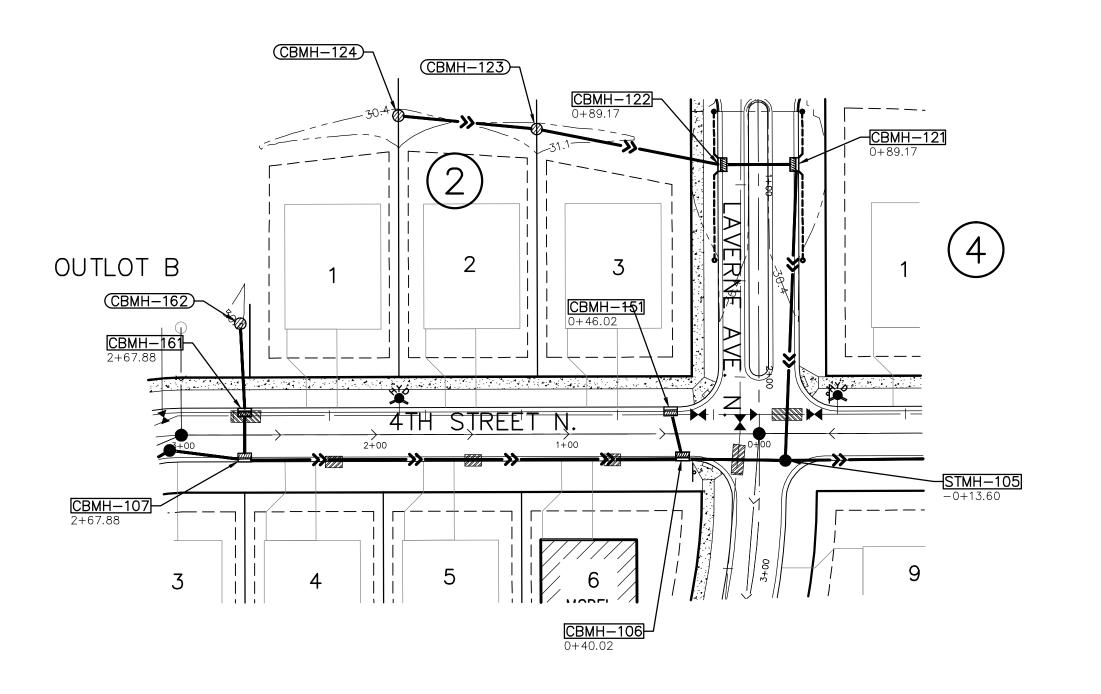


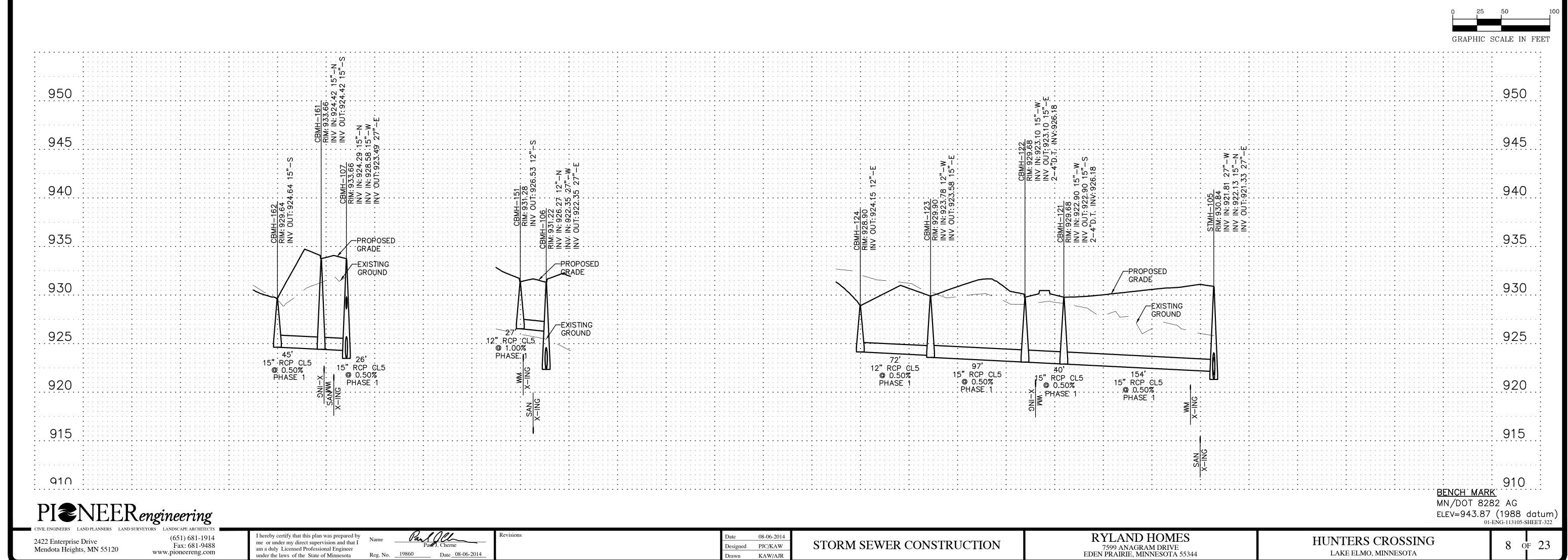


STORM SEWER CONSTRUCTION NOTES: 1. SEE CITY OF LAKE ELMO STANDARD DETAILS FOR PUBLIC INFRASTRUCTURE.

2. FINAL STRUCTURE OFF SET TO BE VERIFIED BY CONTRACTOR AND INSPECTOR BASED ON MATERIAL SUPPLIED TO PROJECT. FIELD STAKING SHALL BE SET ACCORDING TO BACK-OF-CURB.

STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE SIZE	NEENAH CASTING OR EQUAL		
CBMH-121	48" DIA.	R-3067 V		
CBMH-122	48" DIA.	R-3067 V		
CBMH-123	48" DIA.	R-4342		
CBMH-124	48" DIA.	R-4342		
CBMH-151	48" DIA.	R-3067 V		
CBMH-161	48" DIA.	R-3067 V		
CBMH-162	48" DIA.	R-4342		





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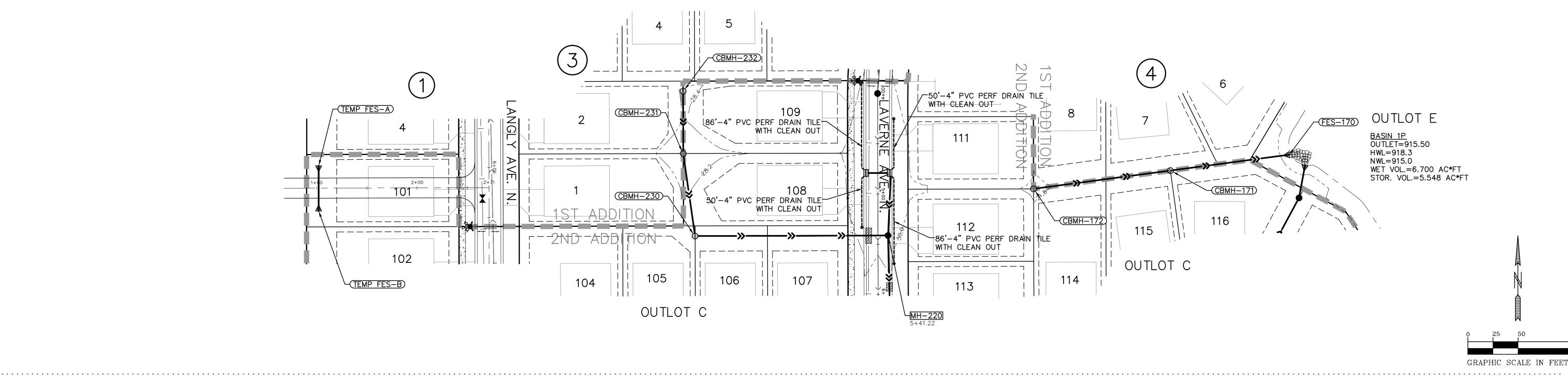
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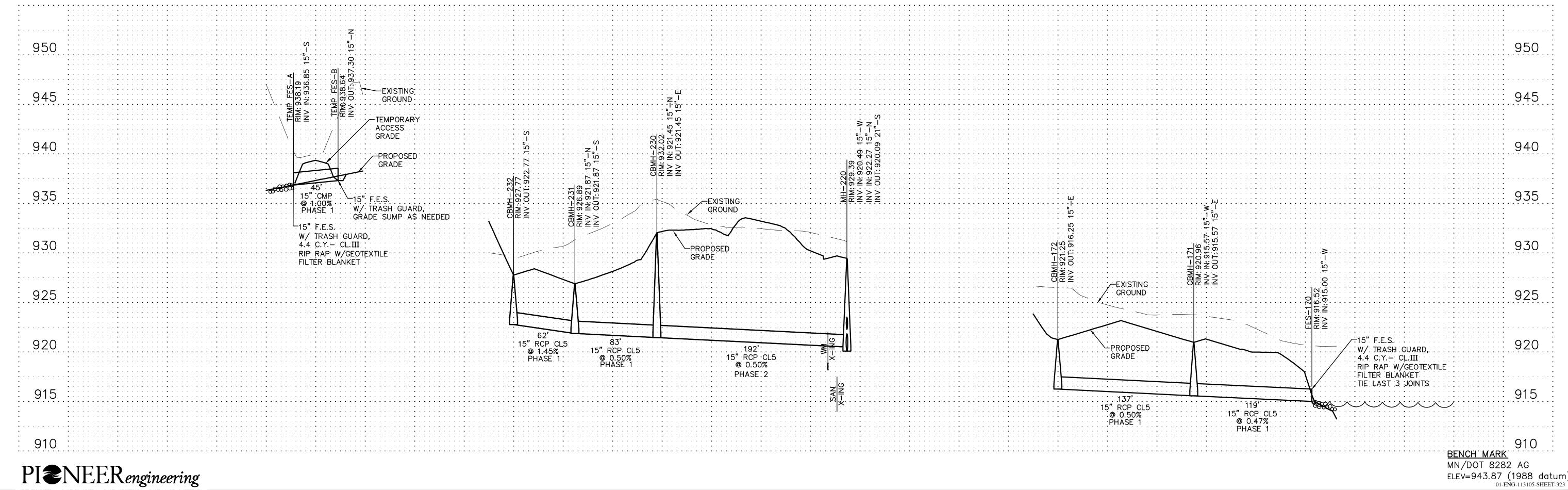
STORM SEWER CONSTRUCTION NOTES:

- 1. SEE CITY OF LAKE ELMO STANDARD
- 2. FINAL STRUCTURE OFF SET TO BE VERIFIED BY CONTRACTOR AND INSPECTOR BASED ON MATERIAL SUPPLIED TO PROJECT. FIELD STAKING SHALL BE SET ACCORDING TO BACK-OF-CURB.

DETAILS FOR PUBLIC INFRASTRUCTURE.

STRUCTURE TABLE			
	RUCTURE NAME	STRUCTURE SIZE	NEENAH CASTING OR EQUAL
CE	BMH-171	48" DIA.	R-4342
СВ	MH-172	48" DIA.	R-4342
СВ	MH-230	48" DIA.	R-4342
СВ	BMH-231	48" DIA.	R-4342
СВ	MH-232	48" DIA.	R-4342





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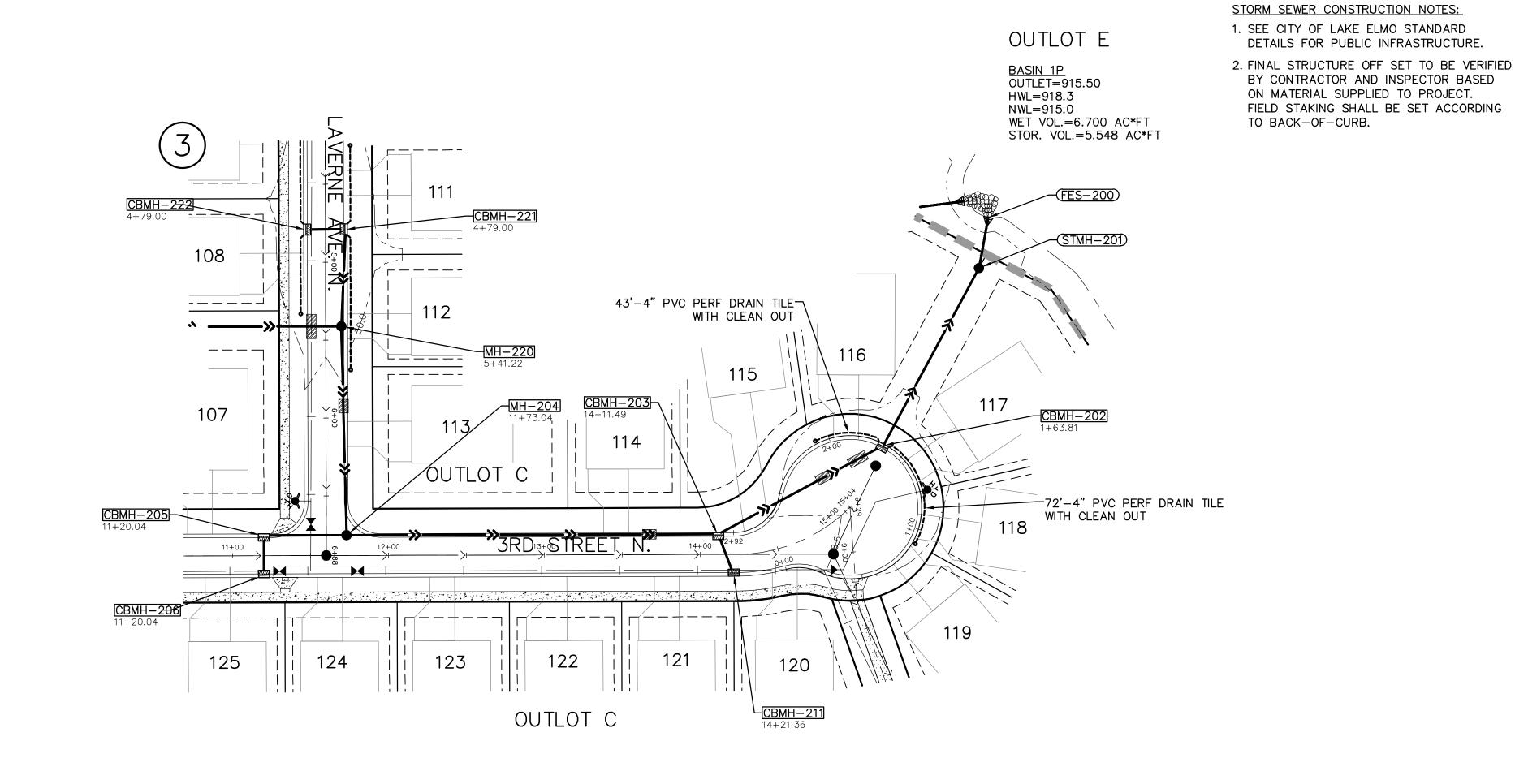
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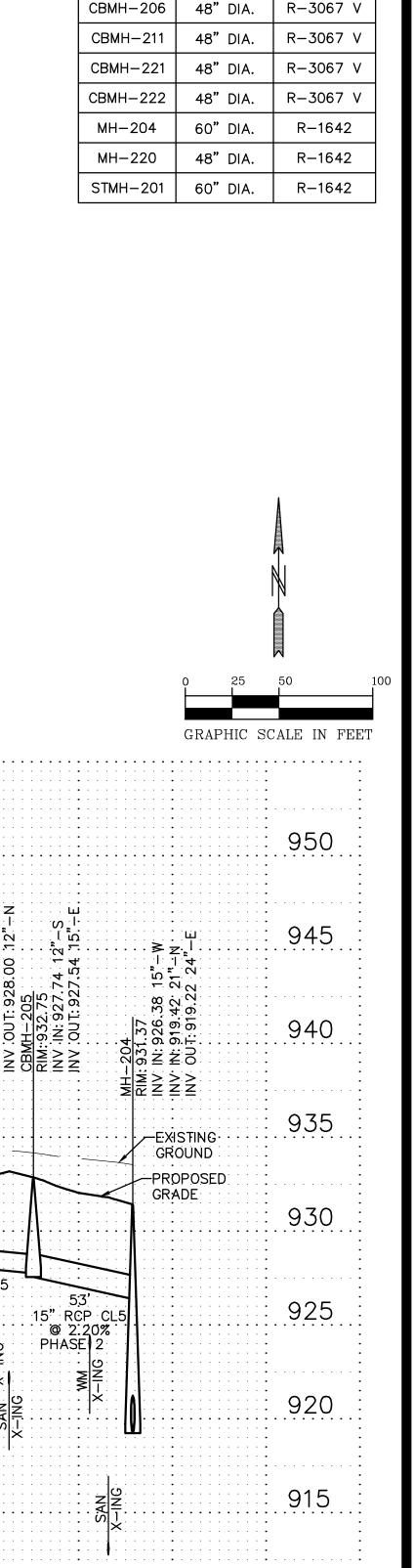
STORM SEWER CONSTRUCTION

RYLAND HOMES
7599 ANAGRAM DRIVE
EDEN PRAIRIE, MINNESOTA 55344

HUNTERS CROSSING LAKE ELMO, MINNESOTA



STORM SEWER CONSTRUCTION



LAKE ELMO, MINNESOTA

EDEN PRAIRIE, MINNESOTA 55344

STRUCTURE TABLE

SIZE

48" DIA.

48" DIA.

48" DIA.

STRUCTURE | STRUCTURE

NAME

CBMH-202

CBMH-203

CBMH-205

NEENAH

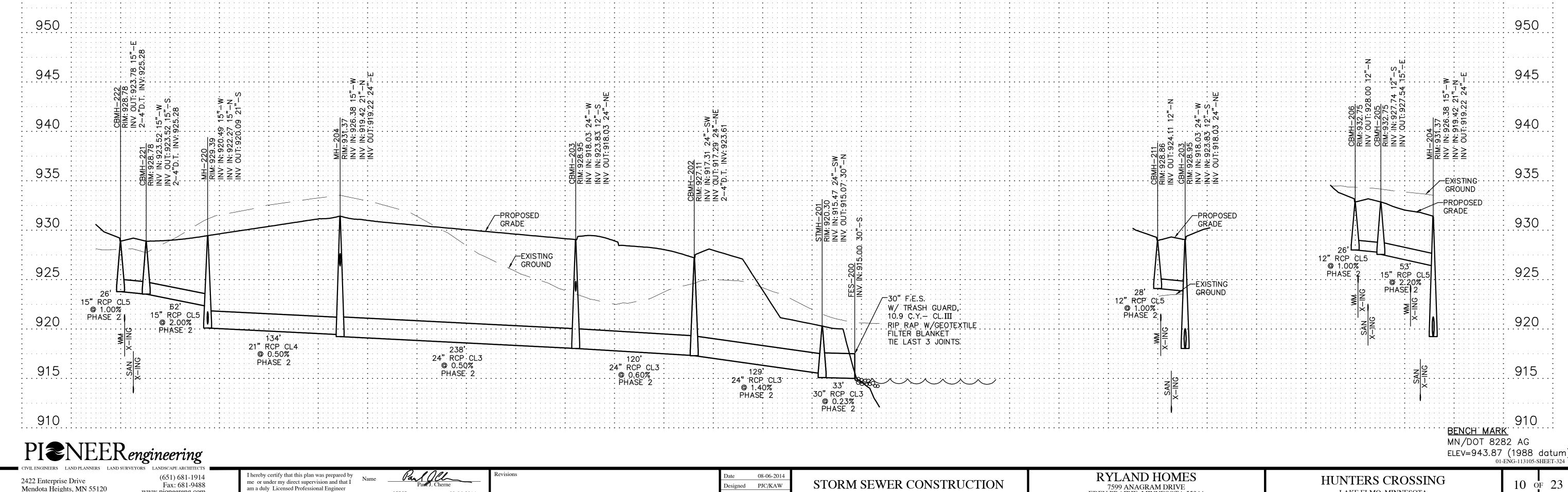
CASTING OR

EQUAL

R-3067 V

R-3067 V

R-3067 V



KAW/AJR

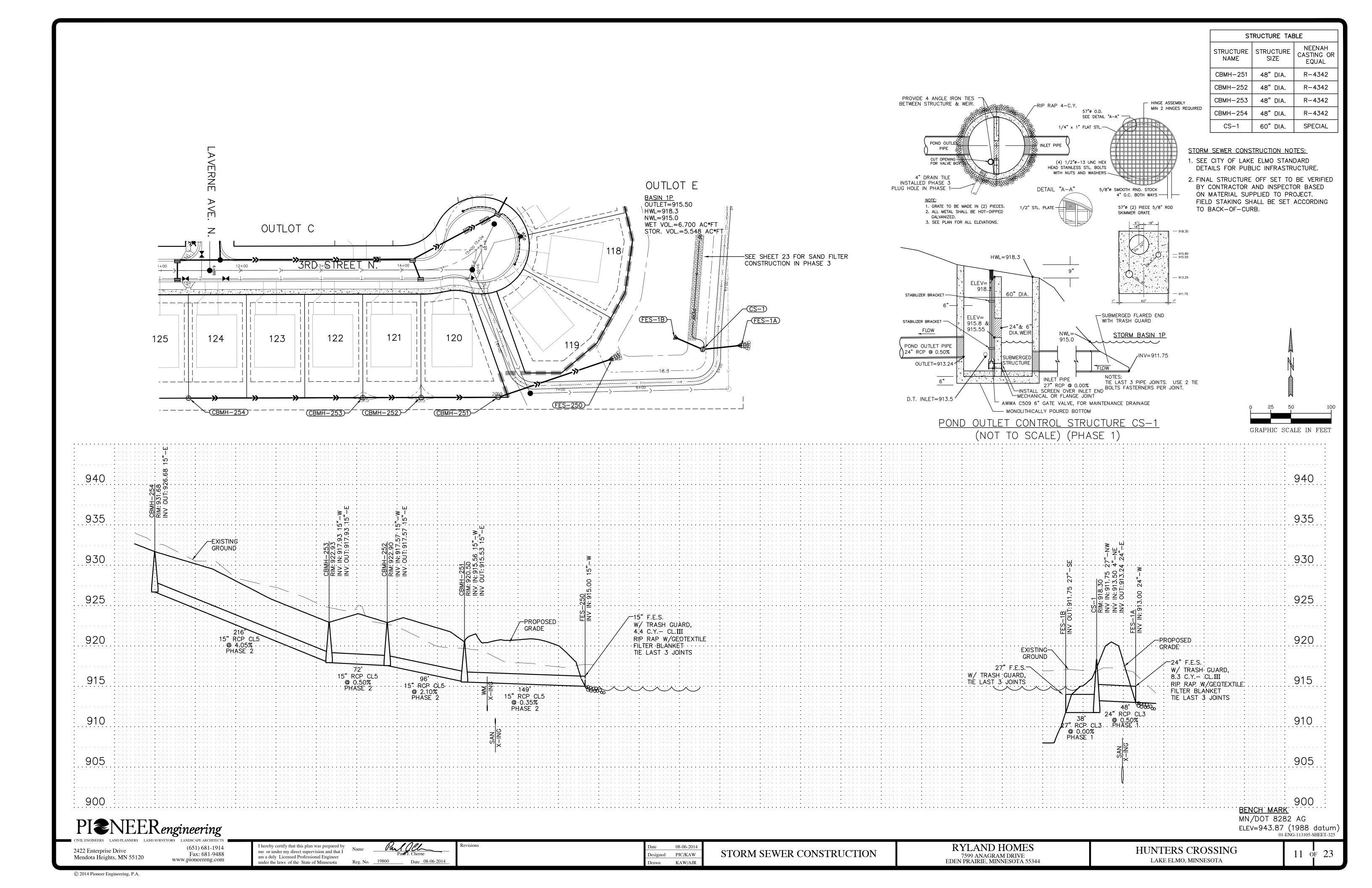
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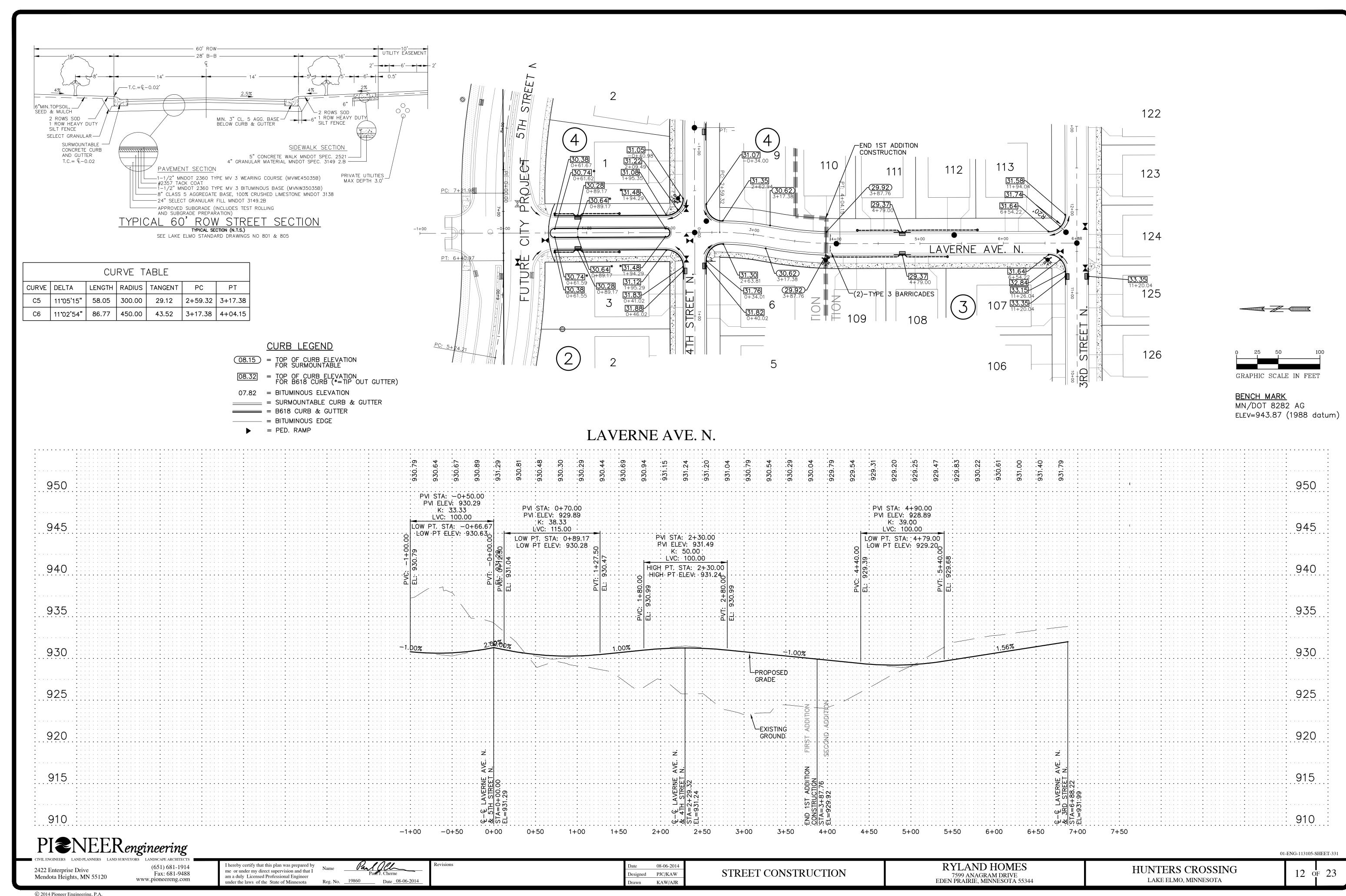
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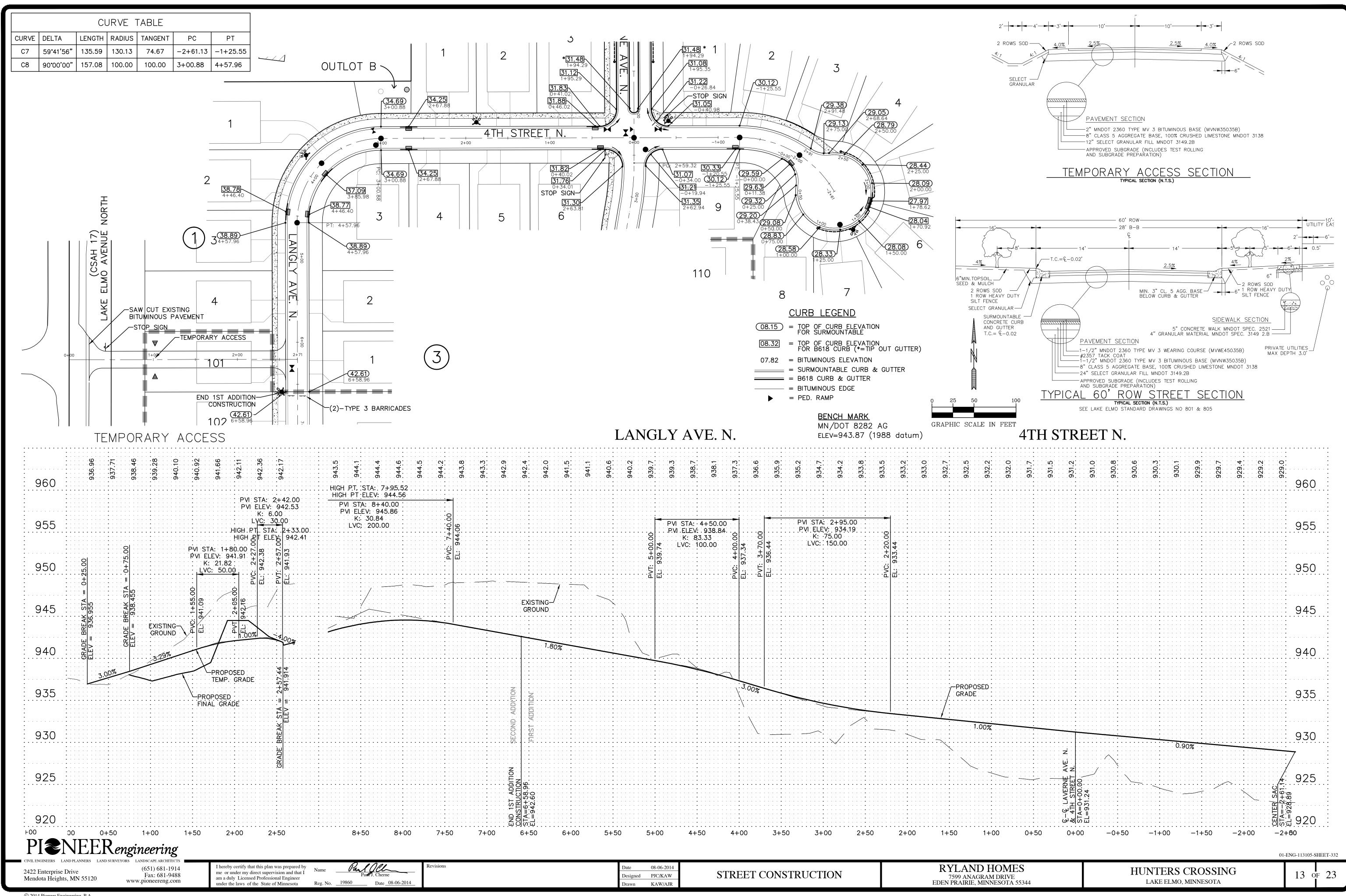
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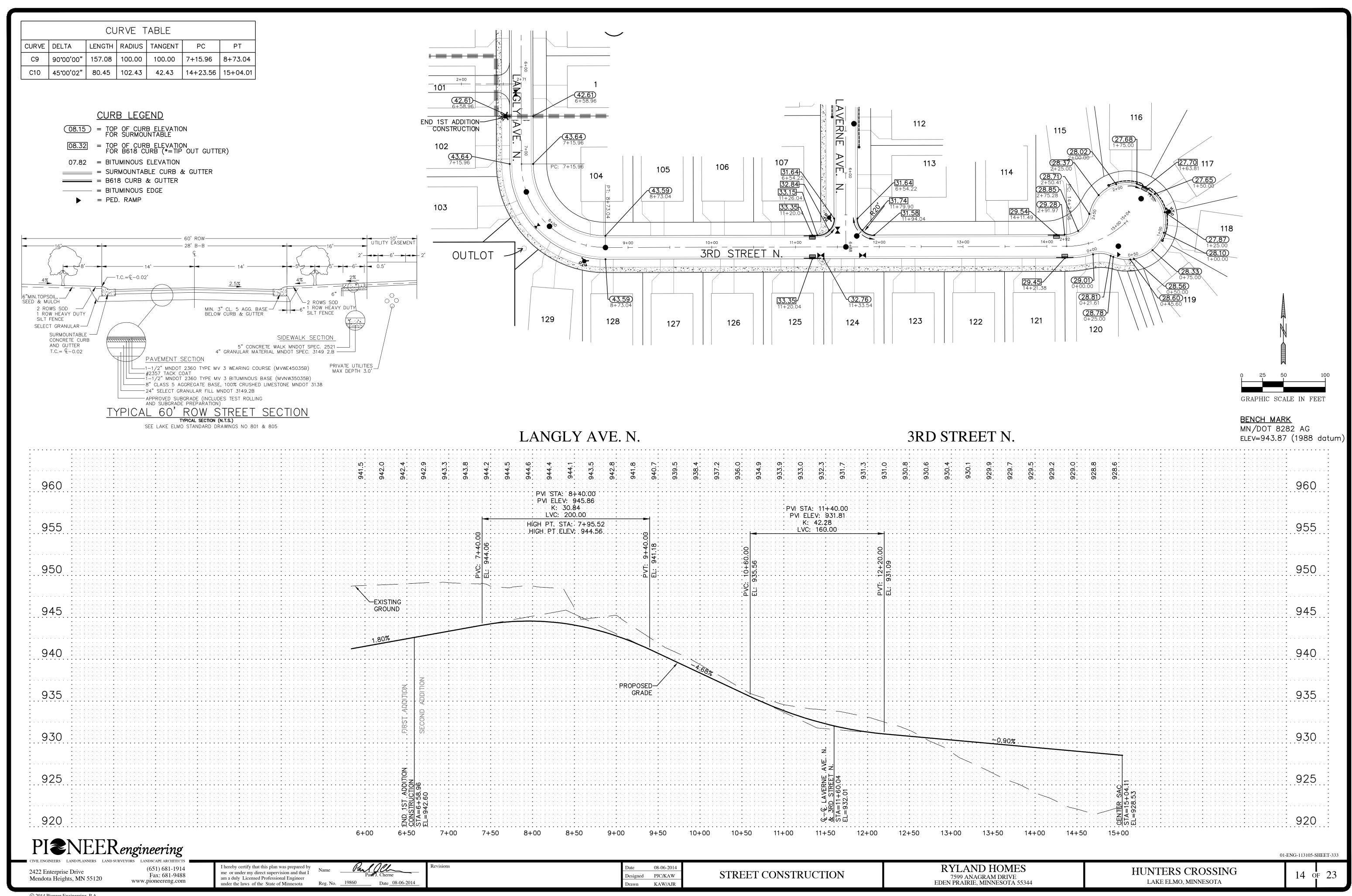
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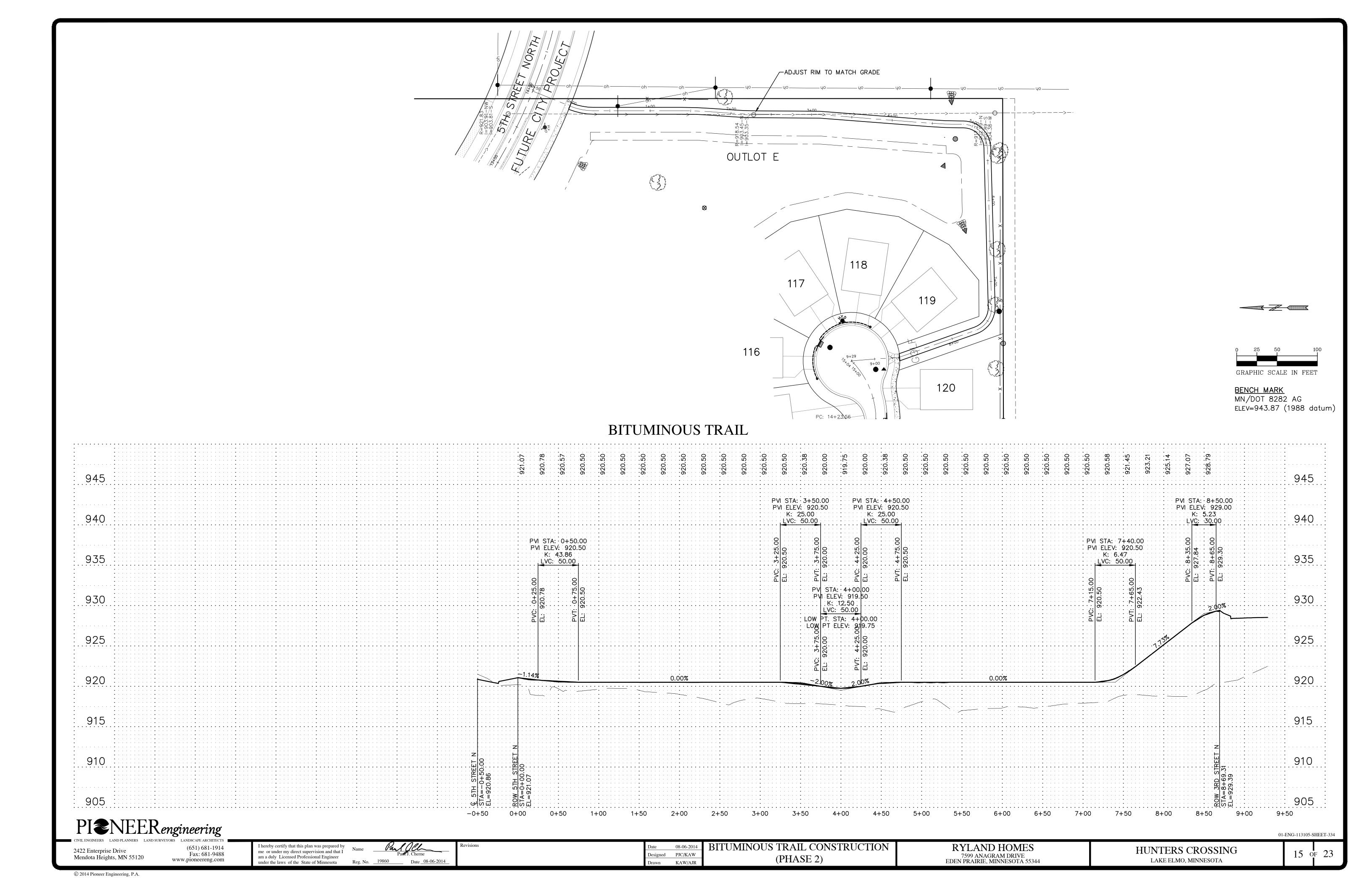
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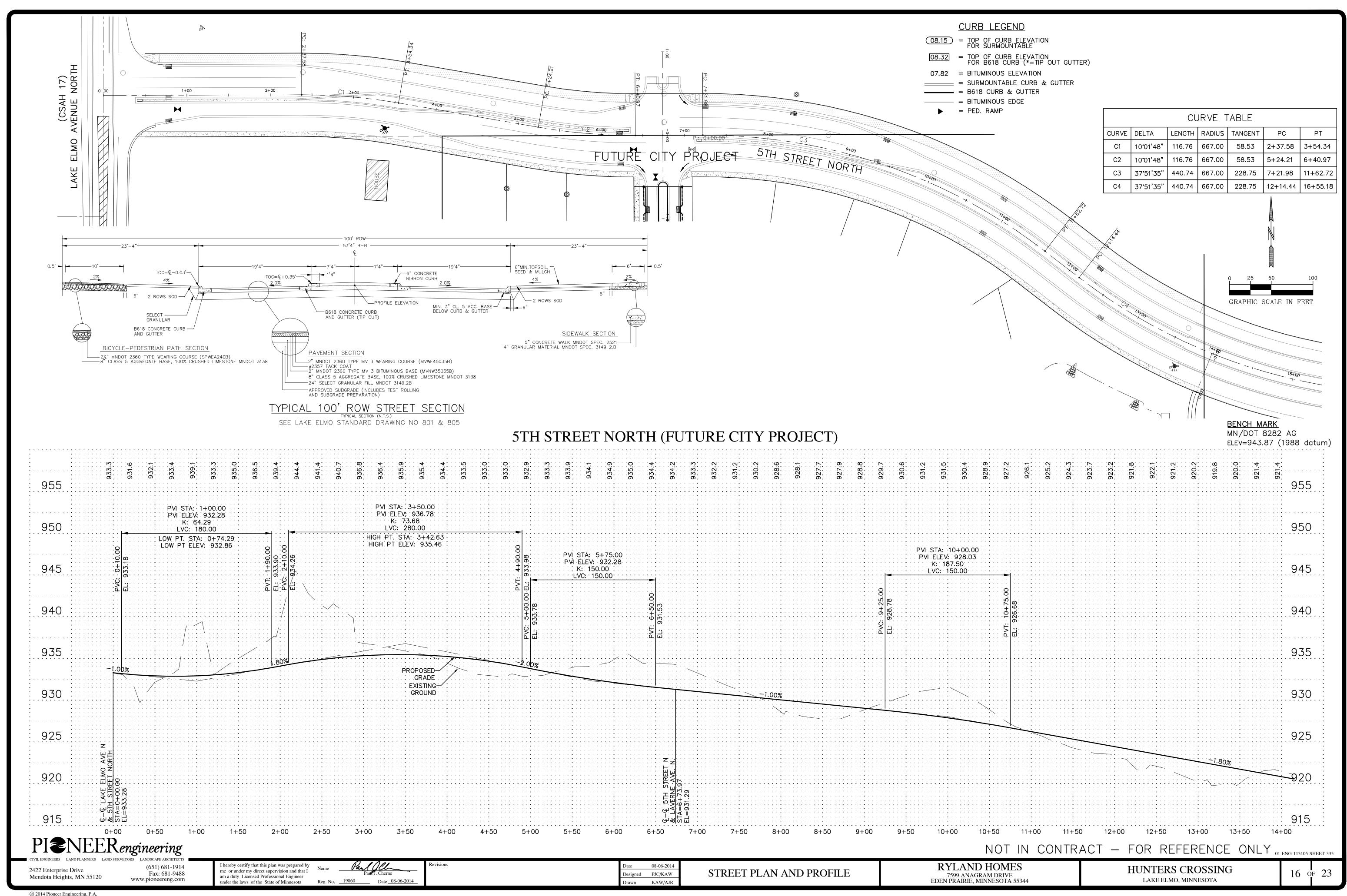


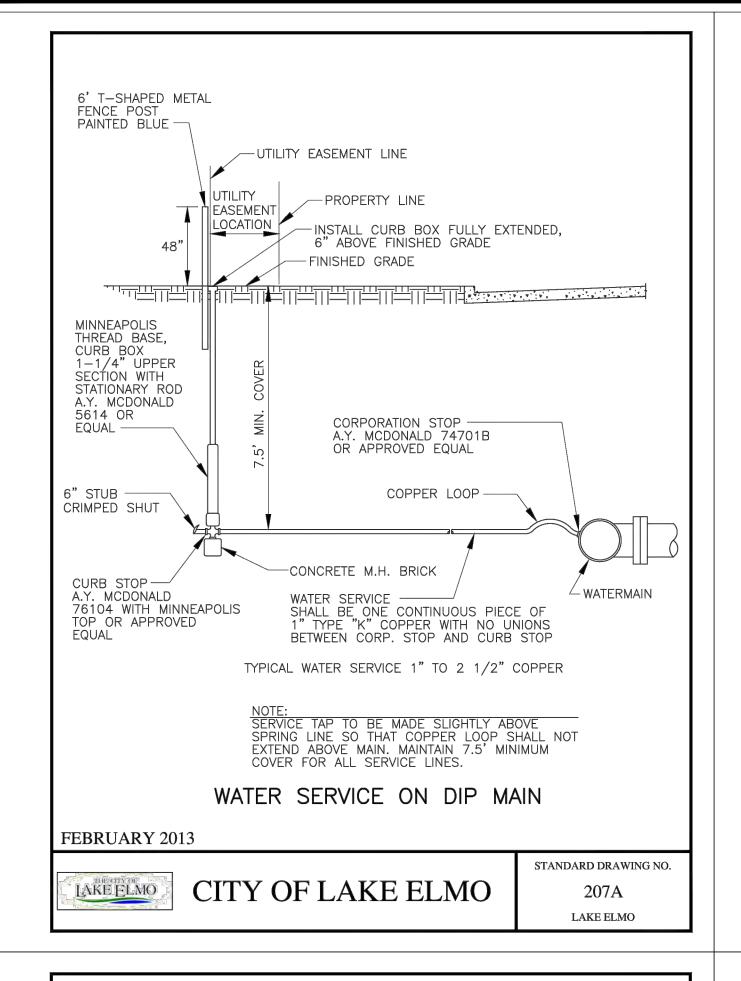


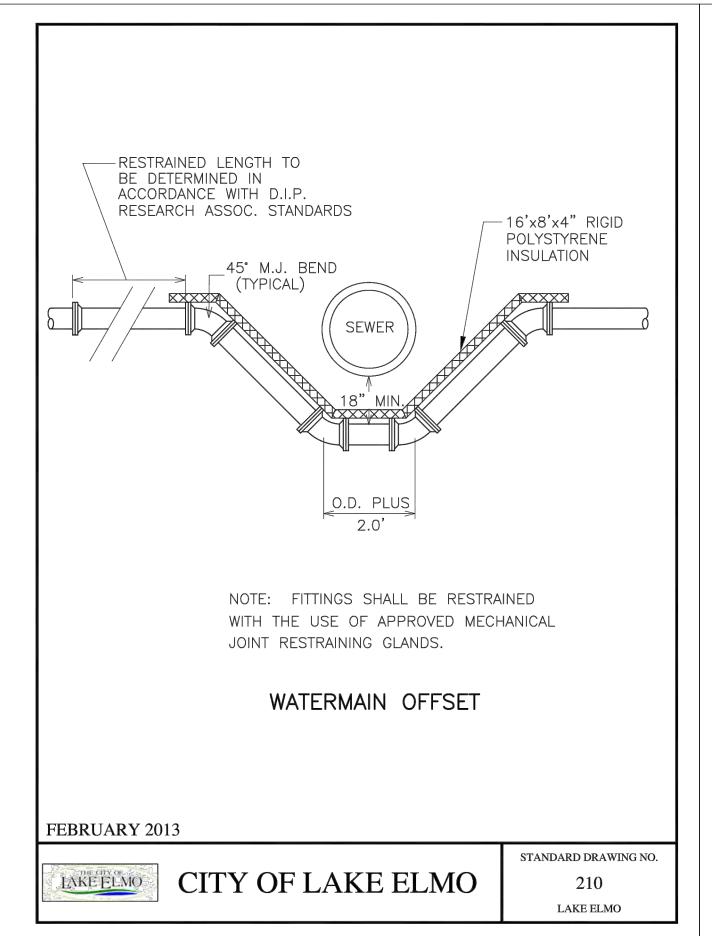














- . ALL SANITARY SEWER PVC PIPE SHALL BE INSTALLED ACCORDING TO CITY STANDARD DRAWING 103 "GRANULAR MATERIAL BEDDING METHOD (FOR PVC SANITARY SEWER
- . UNLESS NOTED OTHERWISE, ALL SMOOTH WALLED SANITARY SEWER PVC PIPE AND FITTINGS SHALL BE SDR 35 WITH ELASTOMERIC GASKETED JOINTS.
- 4. ALL SANITARY SEWER SERVICES SHALL BE 4-INCH PVC, SCH. 40 OR SDR 26 PIPE.
- . SMOOTH WALLED PVC PIPE AND FITTINGS SHALL CONFORM WITH THE REQUIREMENTS OF ASTM D-3034 FOR THE SIZE, STANDARD DIMENSION RATIO (SDR), AND STRENGTH REQUIREMENTS INDICATED ON THE PLANS, SPECIFICATIONS, AND SPECIAL PROVISIONS.
- REINFORCED CONCRETE PIPE AND FITTINGS SHALL CONFORM WITH THE REQUIREMENTS OF MnDOT SPEC 3236 (REINFORCED CONCRETE PIPE) FOR THE TYPE, SIZE, AND STRENGTH CLASS SPECIFIED HEREIN.
- JOINTS OF MANHOLE RISER SECTIONS SHALL BE TONGUE AND GROOVE WITH RUBBER "O" RING JOINTS PROVIDED ON ALL SANITARY SEWER MANHOLES.
- SANITARY SEWER INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A GASKETED, FLEXIBLE, WATERTIGHT CONNECTION TO ALLOW DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE TO TAKE PLACE.
- . A 1'-0" TO 1'-4" MANHOLE SECTION SHALL BE INSTALLED UNDER THE CONE SECTION TO ALLOW FOR HEIGHT ADJUSTMENT WHENEVER POSSIBLE.
- 10. ALL SERVICE LINE STUBS MUST HAVE A 2"x2" HARDWOOD MARKER WITH METAL SPIKE RUNNING FROM THE END OF PIPE TO FINISHED GRADE ELEVATION.
- . UPON MAKING A CONNECTION TO AN EXISTING SANITARY SEWER STUB OR MANHOLE, DIRT AND DEBRIS SHALL BE PREVENTED FROM ENTERING THE EXISTING SEWER BY IMMEDIATELY INSTALLING WATERTIGHT PLUGS AS NEEDED IN THE EXISTING MANHOLE.

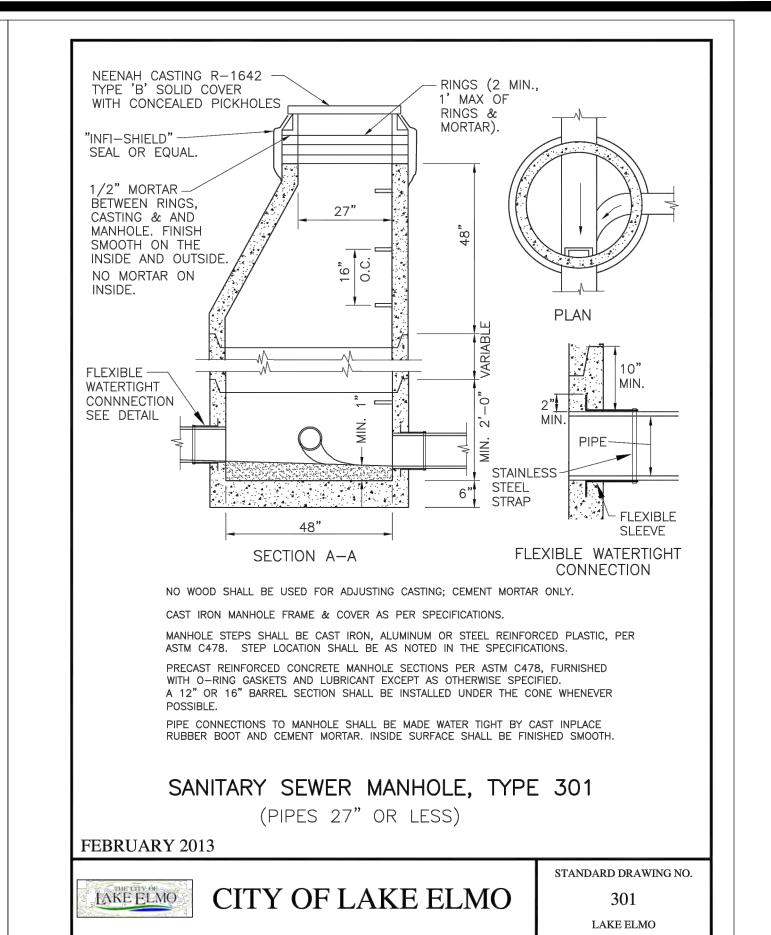
STANDARD PLAN NOTES

SANITARY SEWER PLANS

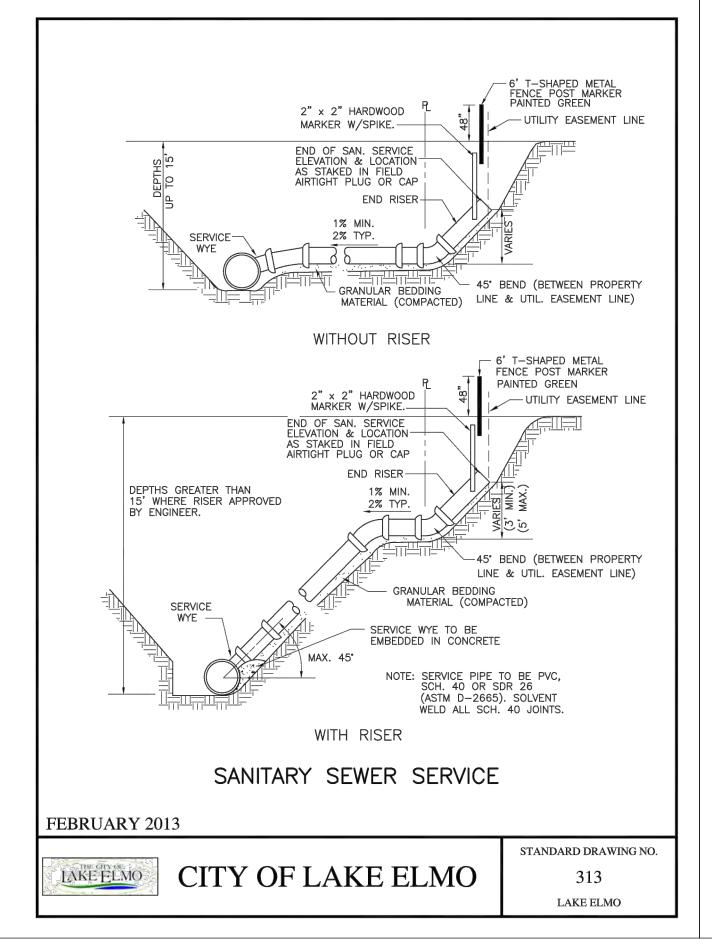
FEBRUARY 2013

CITY OF LAKE ELMO

STANDARD DRAWING NO. 300A LAKE ELMO



MANHOLE (AS SPECIFIED) MJDIP, CL.50 PIPE AND FITTINGS TO BE USED FOR DROP SECTION. DROP SECTION PIPE SIZE TO BE EQUIVALENT TO INLET PIPE SIZE. - END OF DIP PIPE TO BEAR ON UNDISTURBED SOIL 18' MIN. DIP 11 11 11 11 11 11 11 11 11 - CONSTRUCTION JOINT IF NECESSARY. CONCRETE HORSESHOES WATERTIGHT SEAL — CONCRETE SLOPE INVERT AS SHOWN SANITARY SEWER OUTSIDE DROP FEBRUARY 2013 STANDARD DRAWING NO.



ALL STORM SEWER AND ACCESSORIES MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LAKE ELMO STANDARD SPECIFICATIONS AND DETAILS.

. REINFORCED CONCRETE PIPE AND FITTINGS SHALL CONFORM WITH THE REQUIREMENTS OF MnDOT SPEC 3236 (REINFORCED CONCRETE PIPE) FOR THE TYPE, SIZE, AND STRENGTH CLASS SPECIFIED HEREIN.

3. PRECAST CONCRETE MANHOLE AND CATCH BASIN SECTIONS SHALL CONFORM TO THE

- I. A 1'-0" TO 1'-4" MANHOLE SECTION SHALL BE INSTALLED UNDER THE CONE SECTION TO ALLOW FOR HEIGHT ADJUSTMENT WHENEVER POSSIBLE.
- . JOINTS OF MANHOLE RISER SECTIONS SHALL BE TONGUE AND GROOVE WITH RUBBER "O" RING JOINTS PROVIDED ON ALL STORM SEWER MANHOLES.
- MnDOT SPEC. 3601, CLASS III, OR AS SPECIFIED HEREIN. . THE GEOTEXTILE FABRIC USED UNDER RIP—RAP SHALL EXTEND 3 FT UNDER THE

RIP-RAP SHALL BE HAND-PLACED OVER GEOTEXTILE FABRIC AND CONFORM TO

- 8. FURNISH & INSTALL TRASH GUARDS ON ALL FLARED END SECTIONS.
- 9. ALL SILT SHALL BE CLEANED OUT FROM THE RIP—RAP AT THE END OF THE PROJECT.

STANDARD PLAN NOTES

STORM SEWER PLANS

- PRECAST TYPE II COVER SLAB "INFI-SHIELD" 8" WIDE EXTERNAL SEAL WRAP, OR EQUAL. - 2 STRIPS BITUMASTIC SEAL ON SLAB JOINTS - CEMENT MORTAR PRECAST BASE (4' MIN.) THICKNESS VARIABLE NOTES: NO WOOD SHALL BE USED FOR ADJUSTING CASTING; CEMENT MORTAR ONLY. CAST IRON FRAME & GRATE CASTINGS PER SPECIFICATIONS. MANHOLE STEPS SHALL BE CAST IRON, ALUMINUM, OR STEEL REINFORCED PLASTIC PER ASTM C478. LOCATION SHALL BE AS NOTED IN THE SPECIFICATIONS. PRECAST REINFORCED CONCRETE BASE SLAB & COVER SLAB PER ASTM C478. PRECAST REINFORCED CONCRETE MANHOLE SECTIONS PER ASTM C478, FURNISHED WITH O-RING GASKETS & LUBRICANT, OR 8" CONCRETE MANHOLE BLOCK MANHOLE SECTION WITH 1/2" MORTARED EXTERIOR FILL OPENING BETWEEN PIPE AND MANHOLE WALL WITH CEMENT MORTAR. INSIDE SURFACE SHALL BE FINISHED SMOOTH. CATCH BASIN/MANHOLE WITH SUMP, TYPE 405 FEBRUARY 2013

2 2 2 2 2 3 3 3 A A

-RINGS (2 MIN., 1.0' MAX. OF RINGS

-"INFI-SHIELD" SEAL

AND MORTAR)

OR EQUAL.

FEBRUARY 2013

08-06-201

PJC/KAW

KAW/AJR

CITY OF LAKE ELMO

400A LAKE ELMO

STANDARD DRAWING NO

PI NEER engineering

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CITY OF LAKE ELMO

Reg. No. _ 19860 Date 08-06-2014

306

LAKE ELMO

CITY DETAILS

RYLAND HOMES 7599 ANAGRAM DRIVE EDEN PRAIRIE, MINNESOTA 55344

HUNTERS CROSSING LAKE ELMO, MINNESOTA

CITY OF LAKE ELMO

01-ENG-113105-SHEET-DTLS

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1/2" MORTAR BETWEEN -

RINGS, CASTING,

FINISH SMOOTH ON

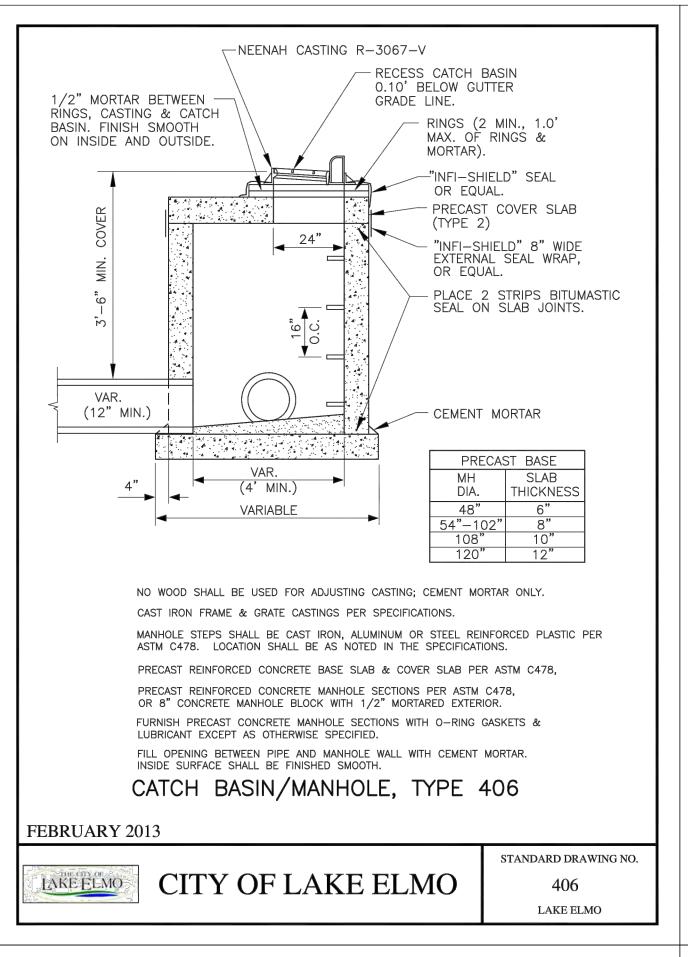
AND TOP SLAB.

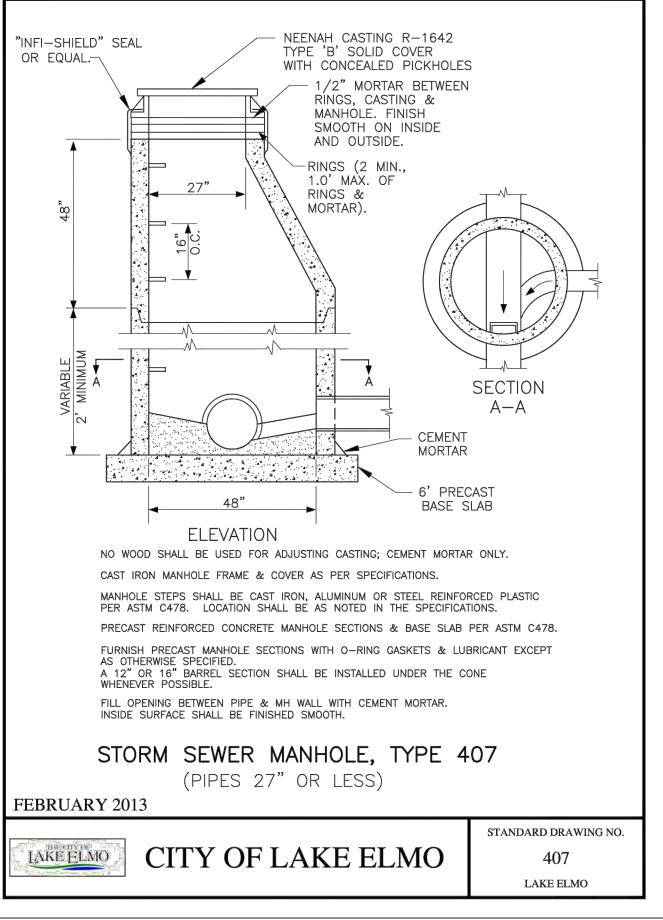
THE INSIDE.

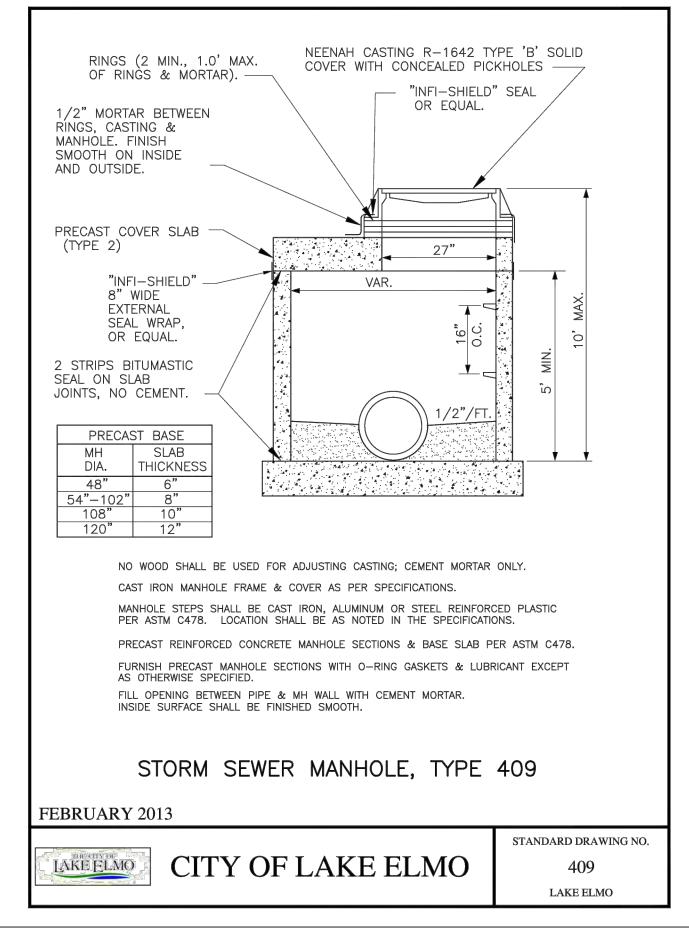
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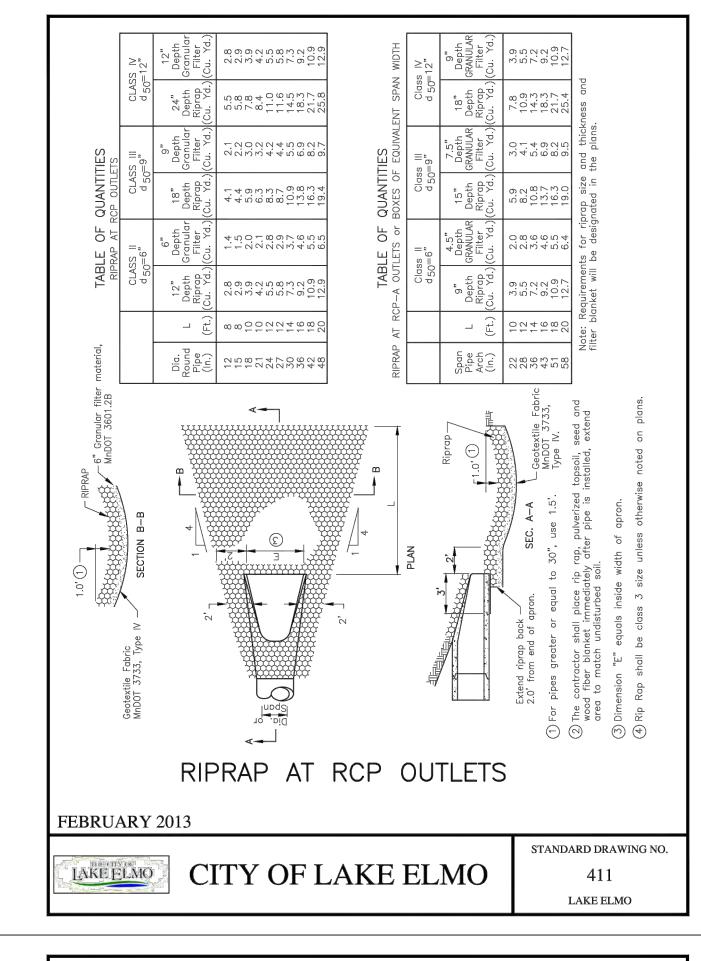
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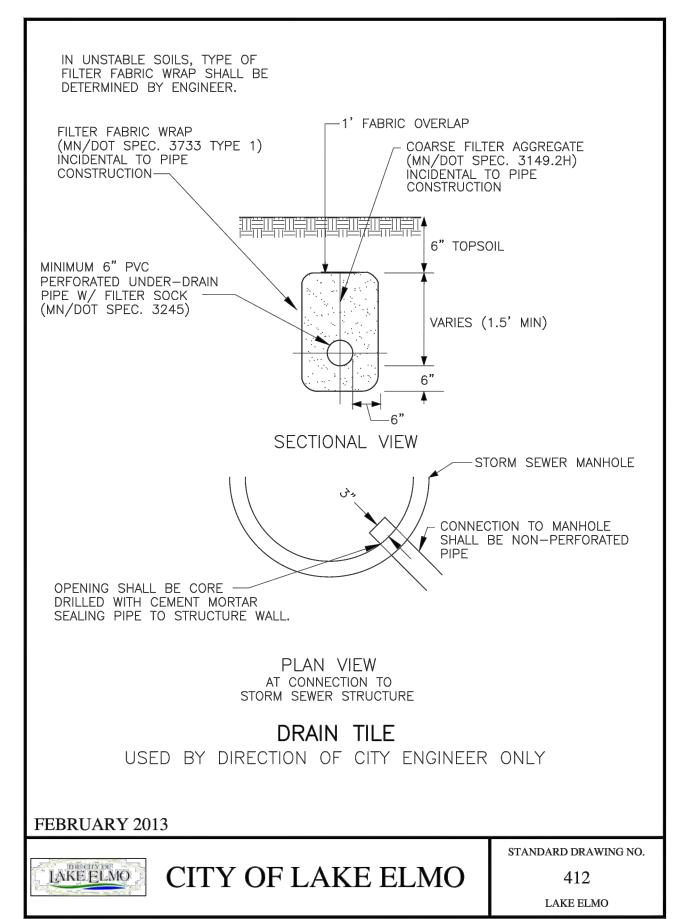
LAKE ELMO

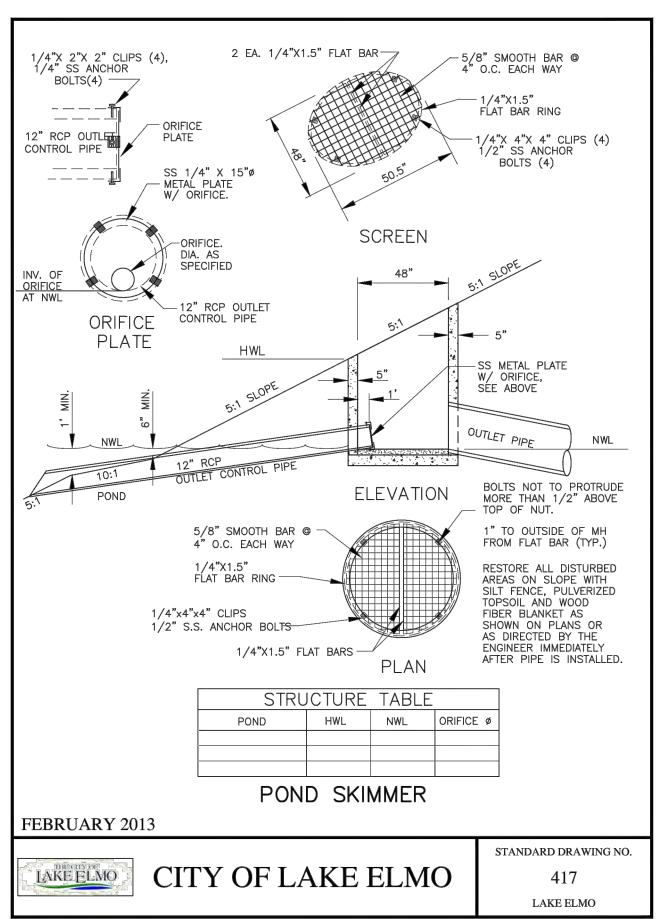


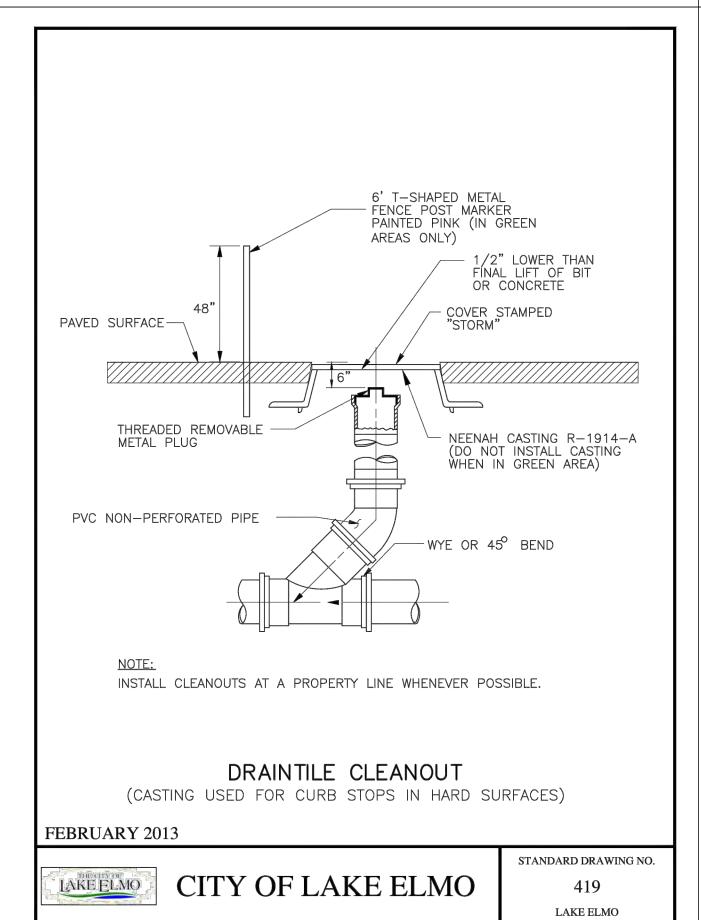




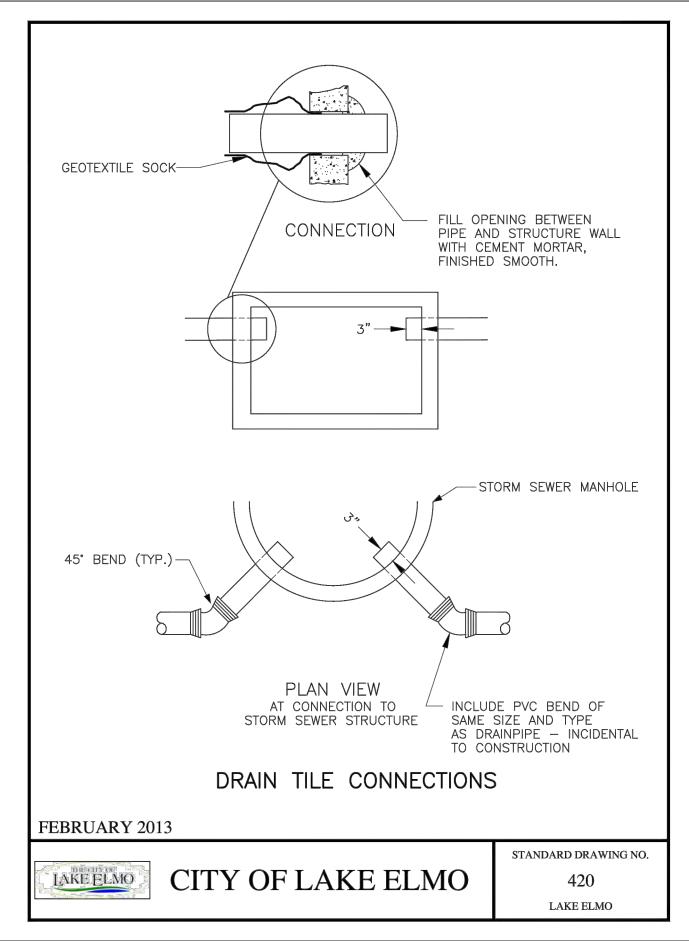








CITY DETAILS





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Reg. No. <u>19860</u>

Date 08-06-2014

08-06-201

PJC/KAW

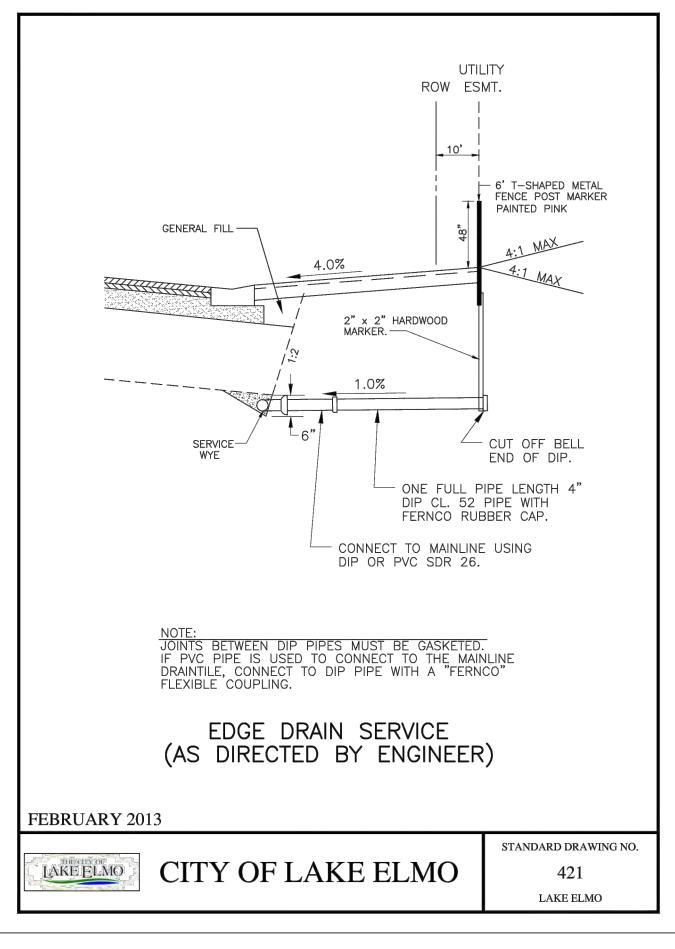
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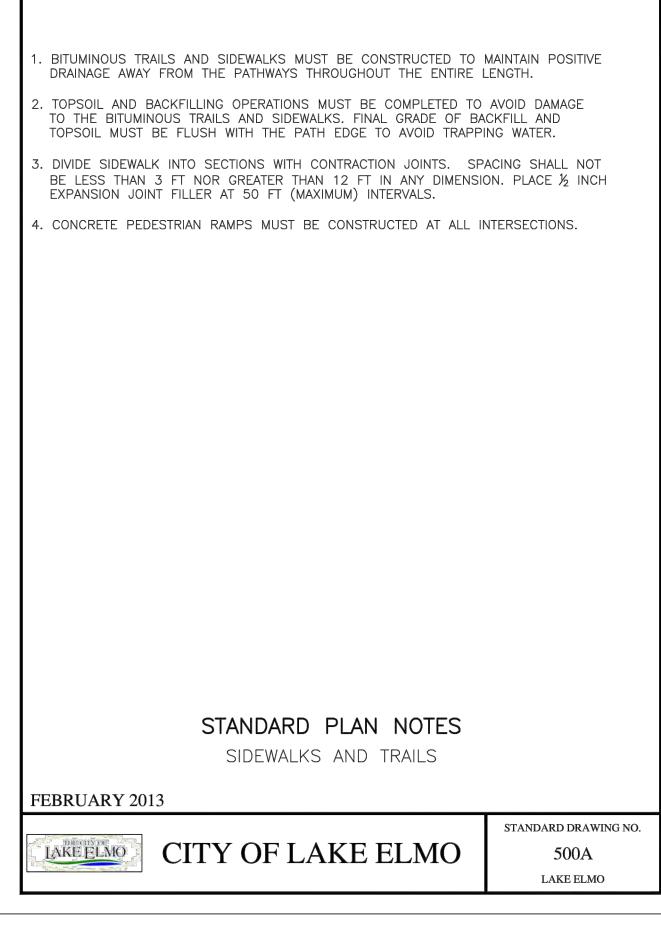
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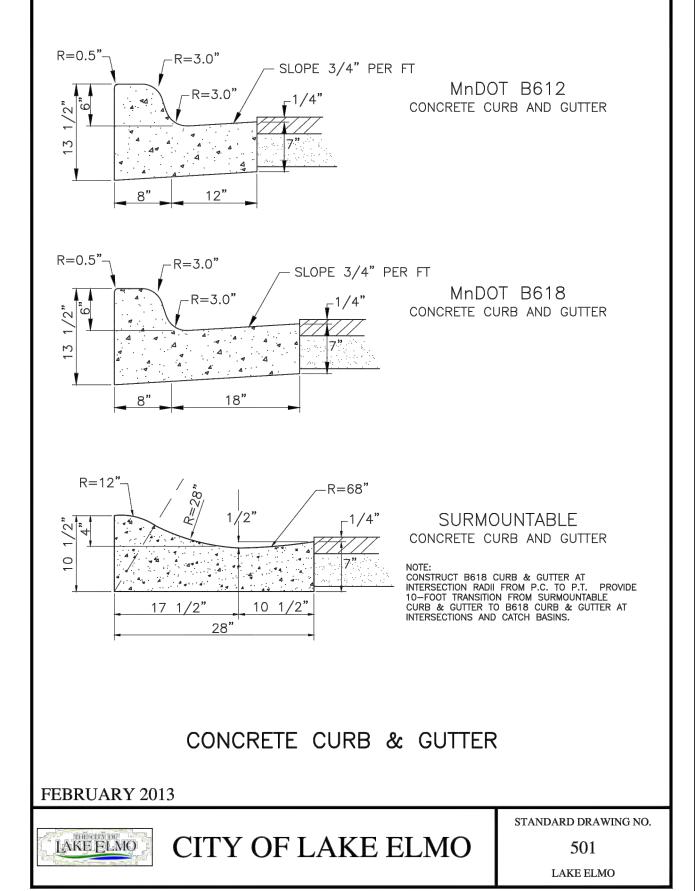
HUNTERS CROSSING LAKE ELMO, MINNESOTA

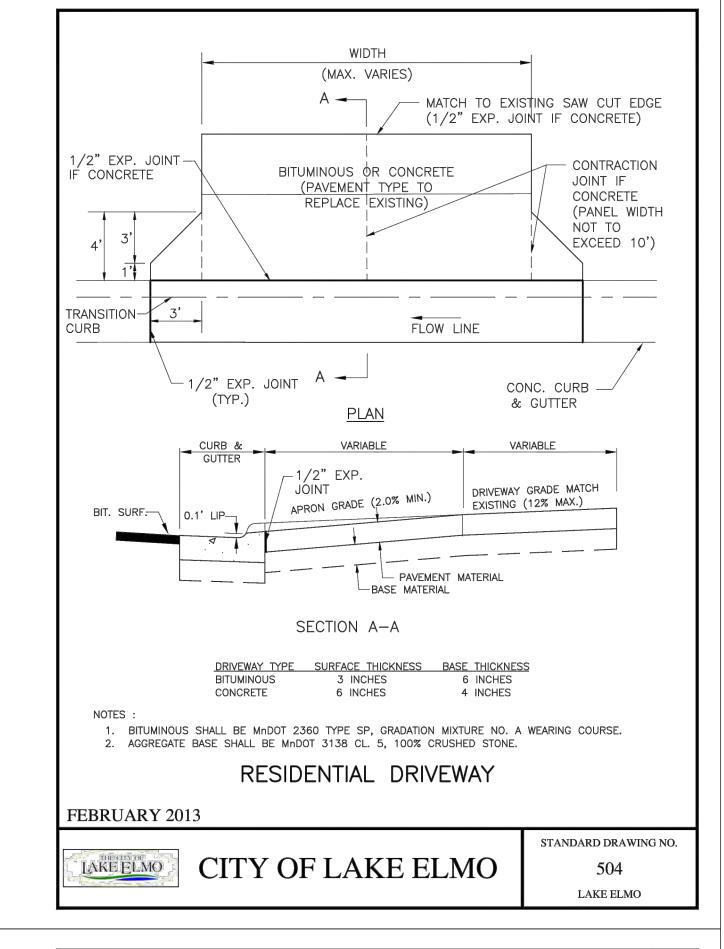
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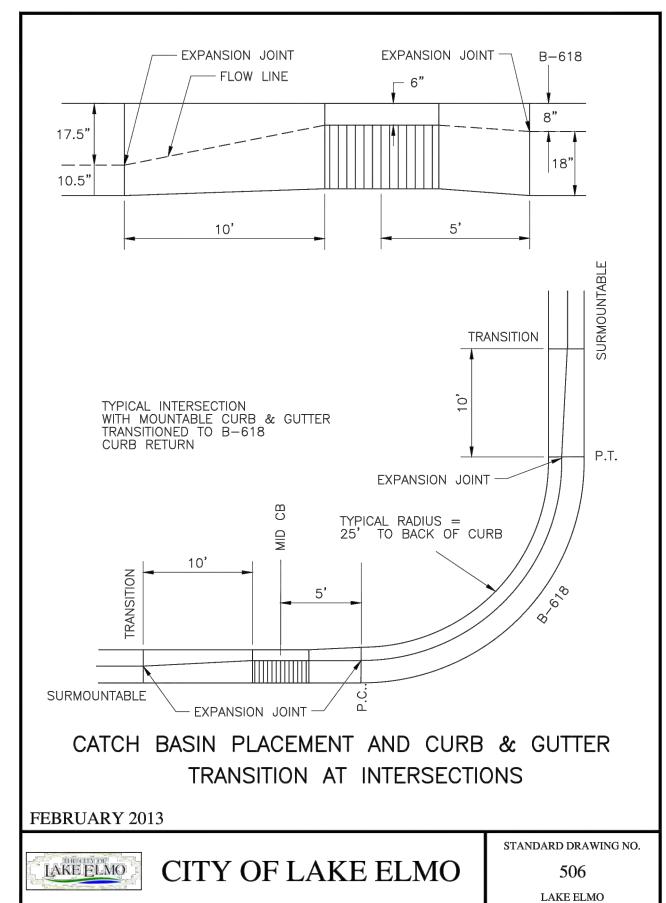
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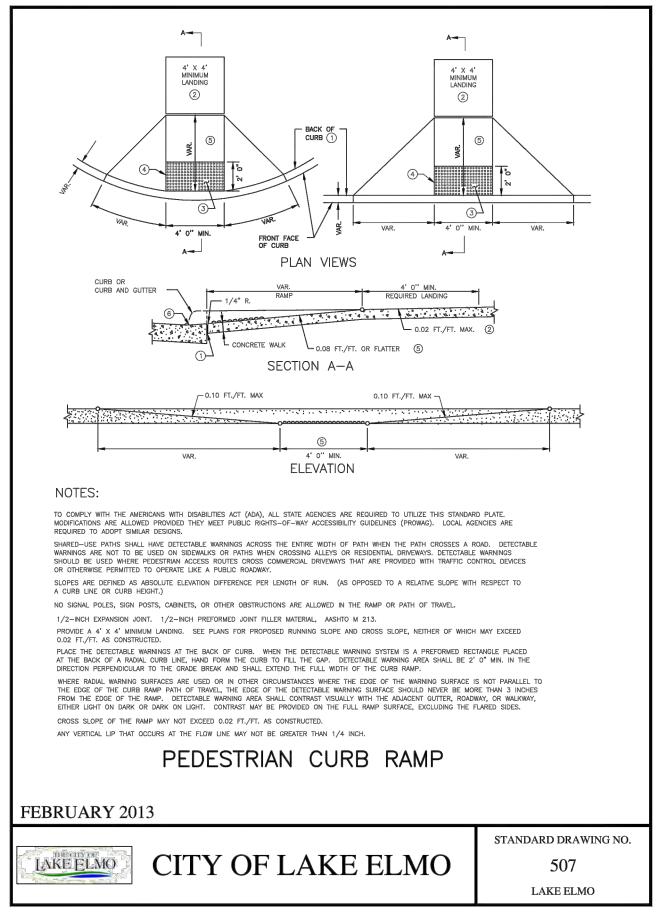


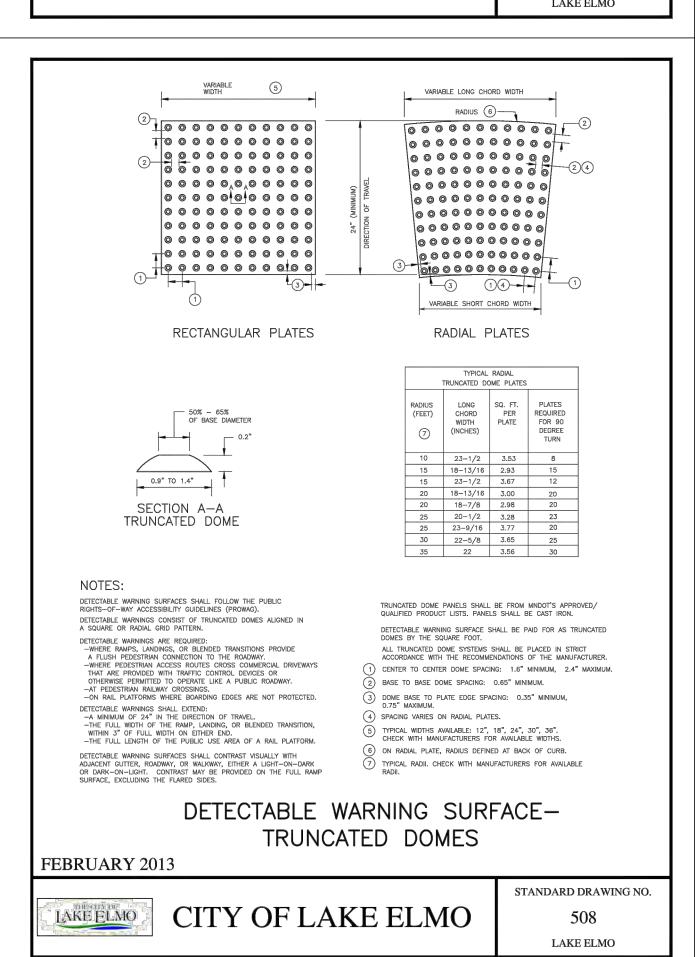


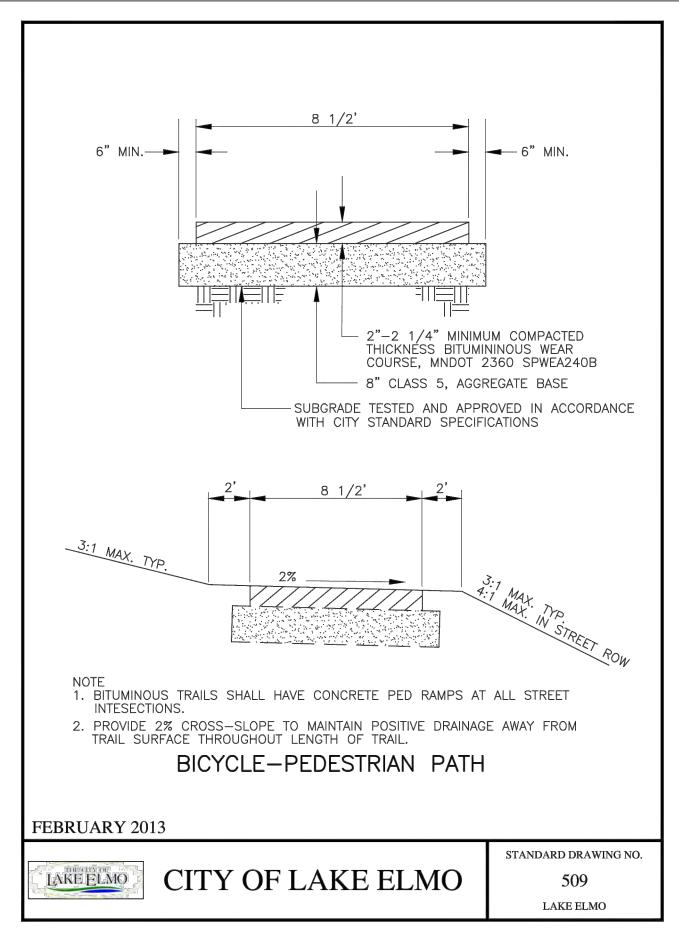














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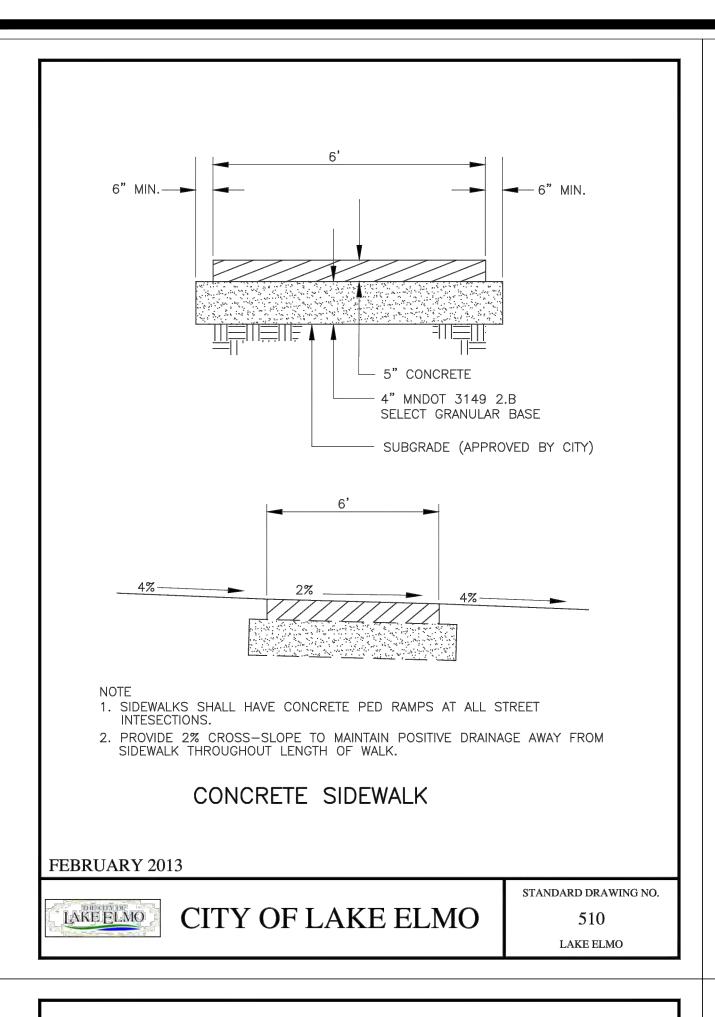
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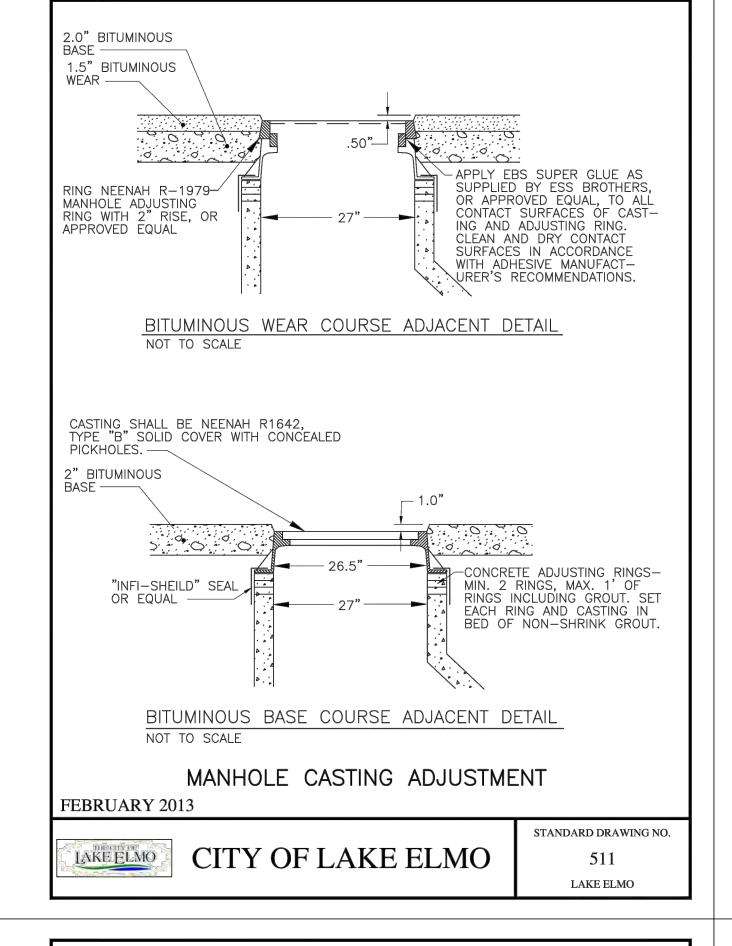
08-06-201 PJC/KAW KAW/AJR CITY DETAILS

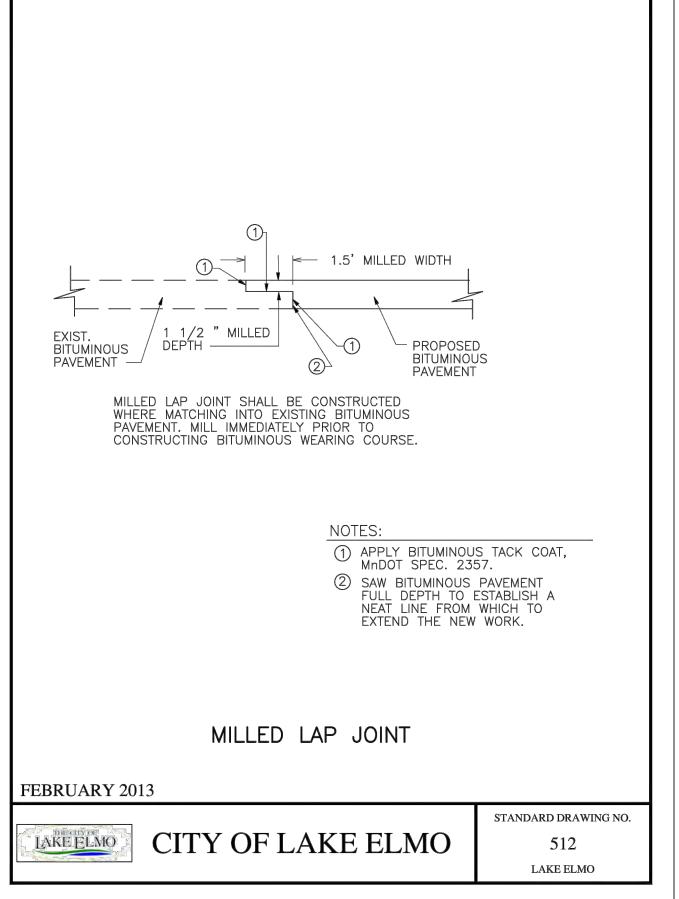
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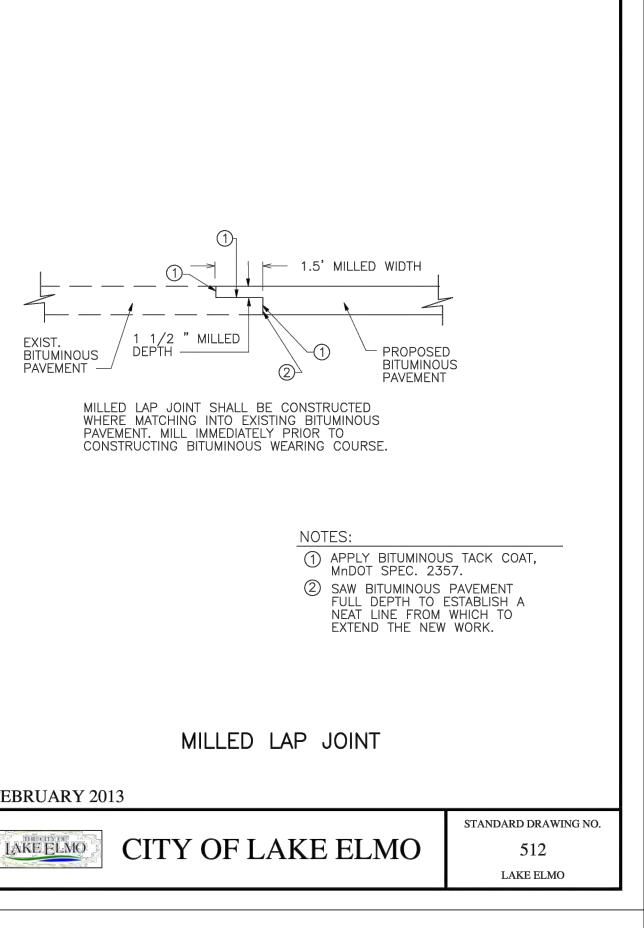
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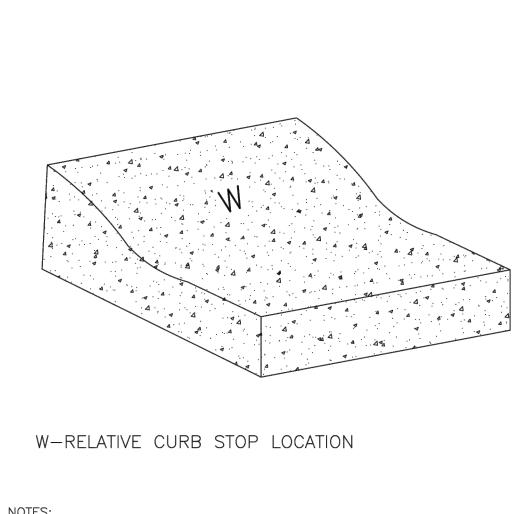
01-ENG-113105-SHEET-DTLS 19 of 23











1. CURB MARKERS ARE AVAILABLE FROM CITY HALL WITH A DEPOSIT.

- 2. CURB MARKINGS SHALL BE POSITIONED IN THE FACE OF THE CURB, WHILE THE CONCRETE IS IN A PLASTIC STATE, PERPENDICULAR TO THE LOCATION OF CURB STOPS.
- 3. WHERE B6XX CURB IS USED, PLACE CURB MARKING ON FACE OF CURB.

CONCRETE CURB MARKING

(FOR CURB STOPS)

FEBRUARY 2013

CITY OF LAKE ELMO

STANDARD DRAWING NO. 513 LAKE ELMO

- 1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND IMPLEMENT MINNESOTA POLLUTION CONTROL AGENCY (MPCA) BEST MANAGEMENT PRACTICES (BMP) TO CONTROL SITE SILTATION AND EROSIÓN INTO DRAINAGE WAYS. THE CONTRÁCTOR SHALL COMPLY WITH ALL CONDITIONS AND COMPLETION DATES RELATIVE TO ALL PERMITS ISSUED FOR THE WORK TO BE COMPLETED. THE ENGINEER MAY ISSUE A STOP WORK ORDER FOR ALL DEVELOPMENT WORK AND BUILDING CONSTRUCTION FOR NONCOMPLIANCE WITH THESE MEASURES.
- SEQUENCING. ALL SILT FENCE AND OTHER EROSION CONTROL MEASURES SHALL BE IN PLACE AND APPROVED BY ENGINEER PRIOR TO ANY REMOVALS, EXCAVATION OR CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER
- 3. SILT FENCE. THE CONTRACTOR SHALL INSTALL SILT FENCE AT THE LOCATIONS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE CITY STANDARD DETAILS. SILT FENCE DAMS AND INTERIM SUMPS SHALL BE PLACED TO INTERCEPT SILT FROM CONCENTRATED RUNOFF FROM OPEN GRADED AREAS. ADDITIONAL SILT FENCE SHALL BE REQUIRED AS DIRECTED BY THE ENGINEER.
- 4. STOCKPILES. ALL STOCKPILE AREAS SHALL HAVE SILT FENCE OR SEDIMENT TRAPPING SYSTEMS PLACED AROUND THE ENTIRE PERIMETER.
- 5. INLET PROTECTION. THE CONTRACTOR SHALL INSTALL INLET PROTECTION ON ALL EXISTING STORM SEWER INLETS IN ACCORDANCE WITH THE CITY STANDARD DETAILS. INLET PROTECTION SHALL ALSO BE PROVIDED ON ALL PROPOSED STORM SEWER INLETS IMMEDIATELY FOLLOWING CONSTRUCTION OF THE INLET. INLET PROTECTION MUST BE INSTALLED IN A MANNER THAT WILL NOT IMPOUND WATER FOR EXTENDED PERIODS OF TIME OR IN A MANNER THAT PRESENTS A HAZARD TO VEHICULAR OR PEDESTRIAN TRAFFIC.
- 6. TEMPORARY SEDIMENT BASINS. THE CONTRACTOR SHALL INCORPORATE TEMPORARY SEDIMENT BASINS THROUGHOUT THE CONSTRUCTION SITE TO CAPTURE RUNOFF AND SLOW THE FLOW OF WATER AND ALLOW SEDIMENT TO SETTLE OUT. TEMPORARY SEDIMENT BASINS SHALL BE INSTALLED AS DIRECTED BY THE CITY ENGINEER.
- 7. ROCK CONSTRUCTION ENTRANCE. A ROCK ENTRANCE SHALL BE CONSTRUCTED AND MAINTAINED AS SHOWN ON THE PLAN TO REDUCE TRACKING OF SILT AND DIRT ONTO THE PUBLIC STREETS. A GEOTEXTILE FABRIC SHALL BE PLACED UNDERNEATH THE ROCK. THE ROCK SHALL BE PERIODICALLY REPLENISHED TO MAINTAIN THE INTENDED PERFORMANCE. MUD AND DEBRIS SHALL BE REMOVED OR SCRAPED FROM TIRES AND VEHICLE UNDERCARRIAGE PRIOR TO LEAVING THE SITE.
- 8. STREET SWEEPING. ALL STREETS USED FOR ACCESS TO THE SITE AND HAUL ROUTES USED FOR CONSTRUCTION EQUIPMENT AND MATERIAL SUPPLIES SHALL BE CLEANED AT THE END OF EACH WORKING DAY. THE CITY OR ENGINEER MAY ORDER ADDITIONAL SWEEPING OF THE STREETS AS DEEMED REQUIRED AT DEVELOPER/CONTRACTOR EXPENSE.
- 9. POSITIVE DRAINAGE AND PROTECTION. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE SITE AT ALL TIMES. LOW POINTS WITHIN AND ALONG ROADWAYS ARE EXPRESSLY PROHIBITED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DITCHES, PIPING OR OTHER MEANS TO FACILITATE PROPER DRAINAGE DURING CONSTRUCTION. TO PROTECT PREVIOUSLY GRADED AREAS FROM EROSION, WOOD FIBER BLANKET SHALL BE PLACED IMMEDIATELY ON STEEP SLOPES (1:3 OR GREATER) AND EMBANKMENTS. PERMANENT AND TEMPORARY PONDS, AND OUTLETS AND OVERFLOWS TO PROTECT THE COMPLETED GRADE AND MINIMIZE SILT IN THE RUNOFF.

STANDARD PLAN NOTES

GRADING AND EROSION CONTROL PLANS

FEBRUARY 2013

CITY OF LAKE ELMO

STANDARD DRAWING NO. 600A LAKE ELMO

- 10. DRAINAGE DITCHES. THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, MUST BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER, STABILIZATION OF THE LAST 200 LINEAL FEET MUST BE COMPLETED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER. STABILIZATION OF THE REMAINING PORTIONS OF ANY TEMPORARY OR PERMANENT DITCHES OR SWALES MUST BE COMPLETE WITHIN 14 DAYS AFTER CONNECTING TO A SURFACE WATER AND CONSTRUCTION IN THAT PORTION OF THE DITCH HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT DITCHES OR SWALES THAT ARE BEING USED AS A SEDIMENT CONTAINMENT SYSTEM (WITH PROPERLY DESIGNED ROCK DITCH CHECKS, BIO ROLLS, DIKES, ETC.) DO NOT NEED TO BE STABILIZED. THESE AREAS MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM.
- 11. TURF ESTABLISHMENT. ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION BUT IN NO CASE LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- 12. MAINTENANCE AND INSPECTION. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND UNTIL SATISFACTORY ESTABLISHMENT OF PERMANENT GROUND COVER IS OBTAINED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES, AND STORMWATER OUTFALLS MUST BE BE INSPECTED WEEKLY, AND WITHIN 24 HOURS OF THE SITE RECEIVING 0.5 INCHES OF RAIN. REPAIRS MUST BE MADE ON THE SAME DAY OR FOLLOWING DAY OF THE INSPECTION. UNSATISFACTORY CONDITIONS NOT REPAIRED OR CLEANED UP WITHIN 48-HOURS OF NOTIFICATION SHALL RESULT IN A STOP WORK ORDER, AND/OR SAID WORK SHALL BE COMPLETED AT CONTRACTOR'S EXPENSE.
- 13. REMOVAL. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TEMPORARY EROSION CONTROL MEASURES. STRUCTURES AND DEVICES ONLY AFTER RECEIVING ENGINEER APPROVAL. ALL DEBRIS, STAKES, AND SILTS ALONG SILT FENCES SHALL BE REMOVED AND DISPOSED OFF SITE. THE CONTRACTOR SHALL HAND RAKE SILTED AREAS ALONG THE FENCE LOCATIONS TO PROVIDE A SMOOTH FINAL GRADE AND SHALL RESTORE THE GROUND SURFACE WITH SEED OR SOD, AS REQUIRED, TO MATCH THE FINISHED GRADE TO THE ADJACENT AREA.
- 14. FINAL STORM SEWER SYSTEM. AT THE COMPLETION OF THE WORK AND BEFORE THE FINAL WALK THROUGH, THE CONTRACTOR SHALL REMOVE STORM SEWER INLET PROTECTION MEASURES AND THOROUGHLY FLUSH THE STORM SEWER SYSTEM. SEDIMENT AND DEBRIS SHALL BE COMPLETELY REMOVED AND CLEANED AT THE INLETS, OUTLETS, AND DOWNSTREAM OF EACH OUTLET. RIPRAP AND GEOTEXTILE FABRIC MAY REQUIRE REPLACEMENT AS DIRECTED BY THE ENGINEER TO OBTAIN A LIKE NEW INSTALLATION ACCEPTABLE TO THE CITY.
- 15. DITCH CHECK (BIOROLL BLANKET SYSTEM). BIOROLL AND BLANKET SYSTEMS SHALL BE BE INSTALLED AS DITCH CHECKS ONLY IN SPECIFIED LOCATIONS AS APPROVED BY THE CITY ENGINEER. BIOROLLS ARE NOT TO BE UTILIZED IN AREAS WHERE VEHICLE AND CONSTRUCTION TRAFFIC OCCUR.

STANDARD PLAN NOTES

GRADING AND EROSION CONTOL PLANS

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CITY OF LAKE ELMO

LAKE ELMO

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- 16. FLOTATION SILT CURTAIN. FLOTATION SILT CURTAIN SHALL BE UTILIZED WHEN CONSTRUCTION ACTIVITIES OCCUR DIRECTLY ADJACENT TO LAKES, STREAMS OR WETLANDS IN ORDER TO CONTAIN SEDIMENTS NEAR THE BANKS OF WORKING AREAS. THE INSTALLATION OF FLOTATION SILT CURTAINS WILL BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.
- 17. CONCRETE WASHOUT ONSITE. ALL LIQUID AND SOLID WASTES GENERATED BY CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER. A COMPACTED CLAY LINER THAT DOES NOT ALLOW WASHOUT LIQUIDS TO ENTER GROUND WATER IS CONSIDERED AN IMPERMEABLE LINER. THE LIQUID AND SOLID WASTES MUST NOT CONTACT THE GROUND, AND THERE MUST NOT BE RUNOFF FROM THE CONCRETE WASHOUT OPERATIONS OR AREAS, LIQUID AND SOLID WASTES MUST DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA REGULATIONS. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
- RESTORE ALL DISTURBED AREAS WITH 6 INCHES OF TOPSOIL CONFORMING TO MNDOT 3877.
- PROTECT ALL STORM SEWER INLETS AS SPECIFIED HEREIN AND MAINTAIN UNTIL STREET CONSTRUCTION IS COMPLETED.
- . MAINTAIN ALL SILT FENCE AND REPAIR OR REPLACE AS NEEDED OR REQUIRED UNTIL TURF HAS BEEN ESTABLISHED.
- . RESTORATION WORK SHALL BEGIN WITHIN 7 DAYS OF FINAL GRADING.
- A MINIMUM OF 2 ROWS OF SOD SHALL BE PLACED ADJACENT TO THE BACK OF CURBS ALONG ALL BOULEVARDS. SILT FENCE SHALL BE PLACED DIRECTLY BEHIND THE SOD IN ACCORDANCE WITH THE CITY STANDARD DETAILS.
- BOULEVARD AND DITCH RESTORATION INCLUDES FINE GRADING, WHICH INCLUDES THE REMOVAL OF ROCKS, DEBRIS AND SOIL CHUNKS, WHILE MAINTAINING POSITIVE

GRADING AND EROSION CONTOL PLANS

STANDARD PLAN NOTES

FEBRUARY 2013

CITY OF LAKE ELMO

600C LAKE ELMO

STANDARD DRAWING NO

STANDARD PLAN NOTES

SITE RESTORATION PLANS

FEBRUARY 2013

CITY OF LAKE ELMO

STANDARD DRAWING NO. 600D LAKE ELMO

PI NEER engineering

(651) 681-1914 2422 Enterprise Drive Fax: 681-9488 Mendota Heights, MN 55120 www.pioneereng.com

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Reg. No. 19860

Date <u>08-</u>06-2014

08-06-201 PJC/KAW KAW/AJR

CITY DETAILS

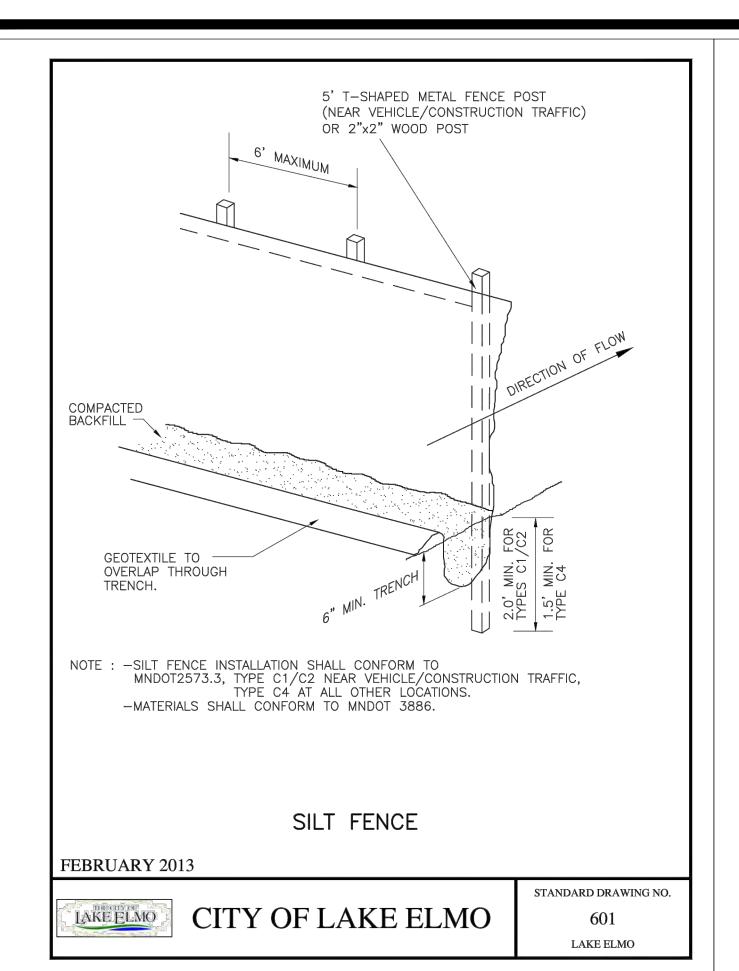
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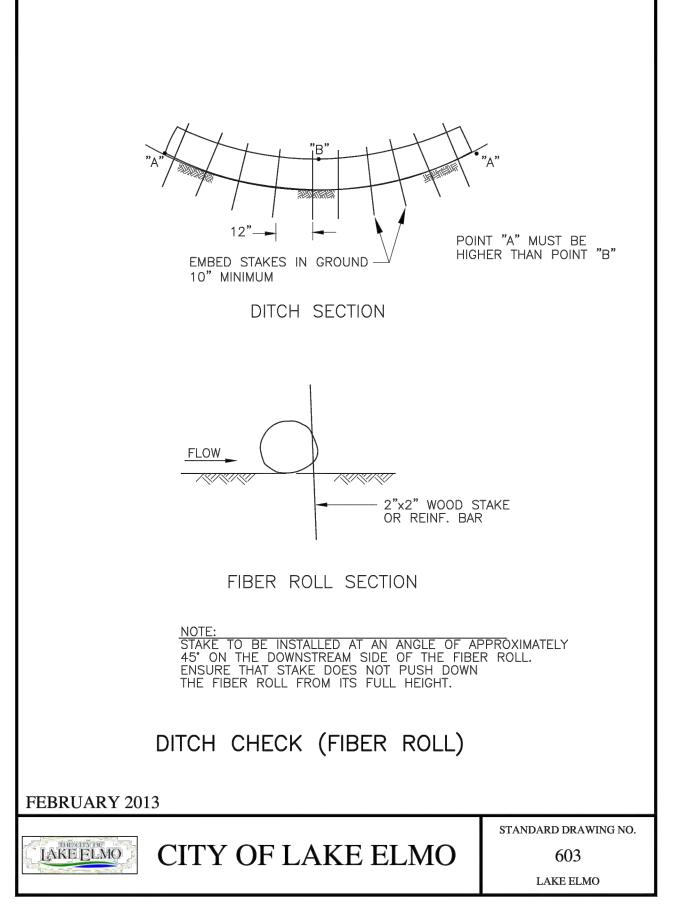
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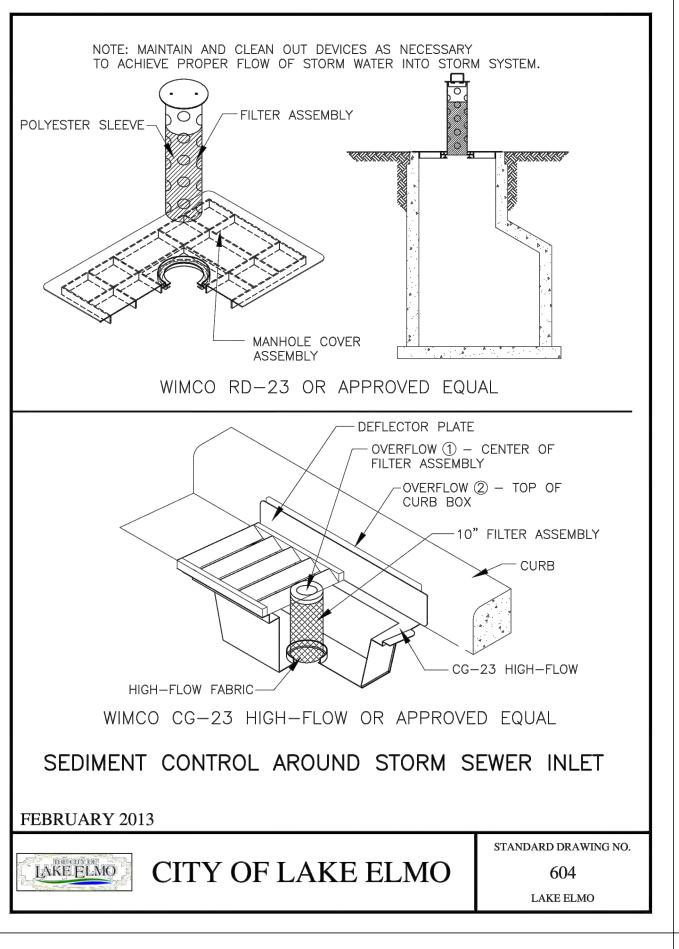
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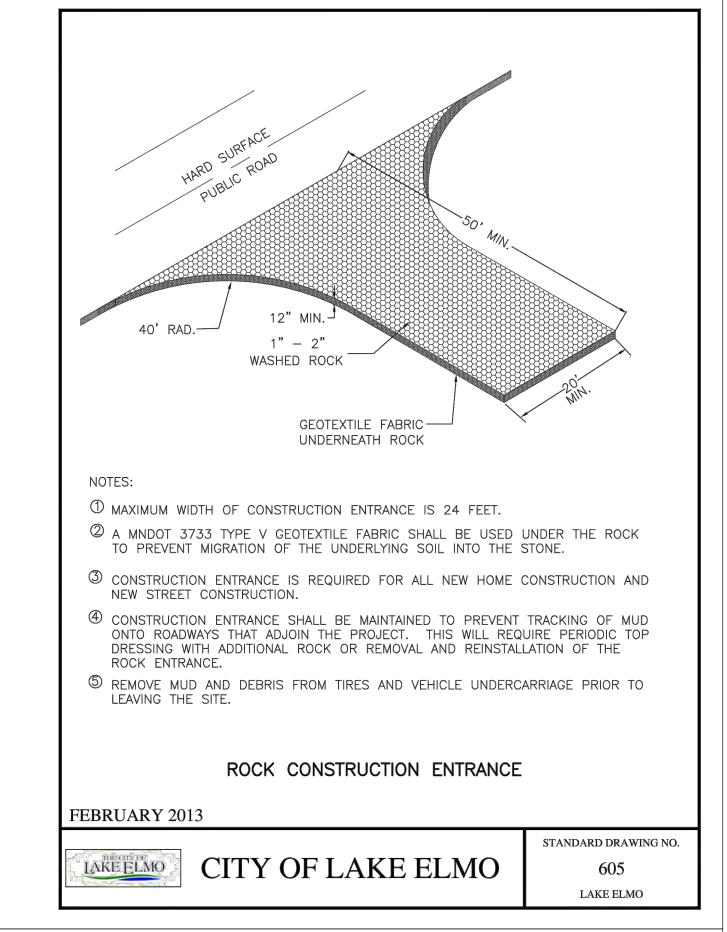
LAKE ELMO, MINNESOTA

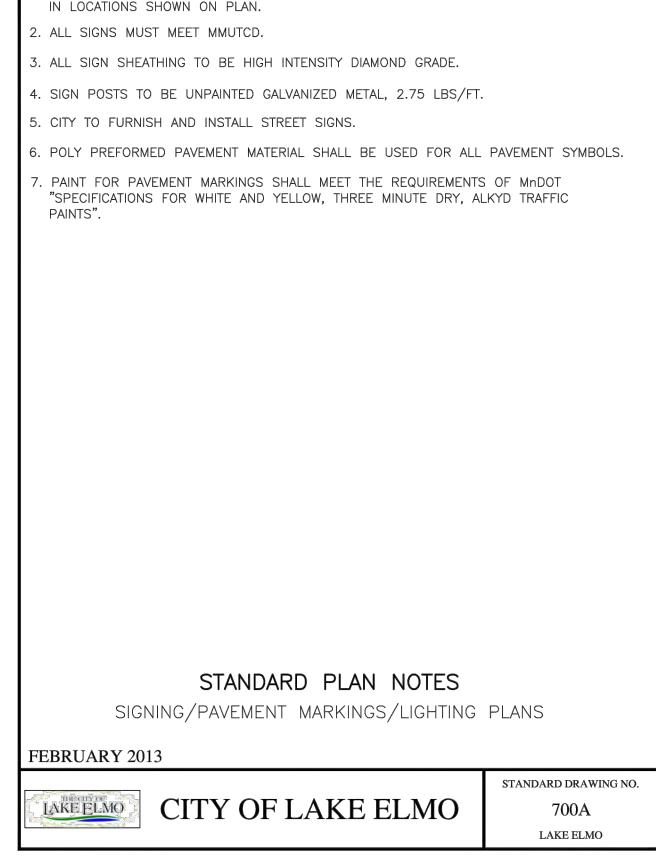
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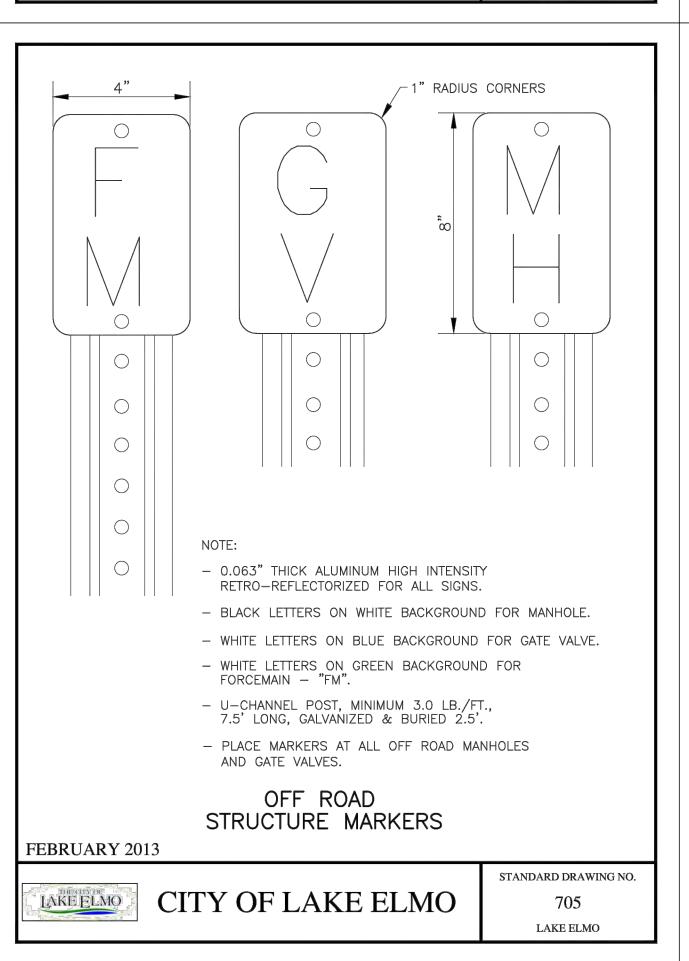


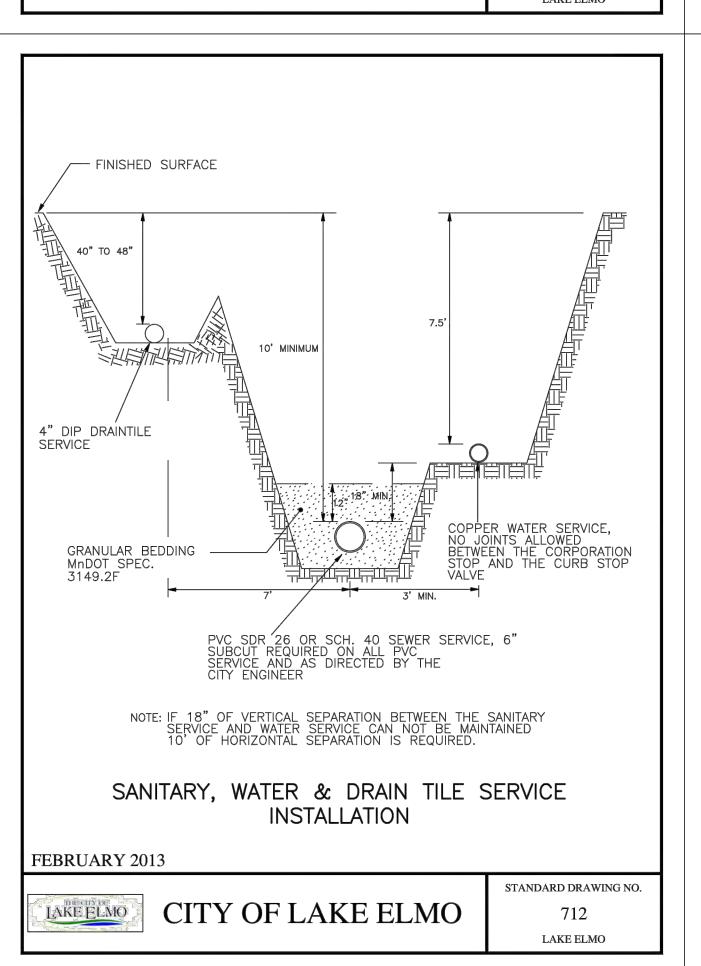


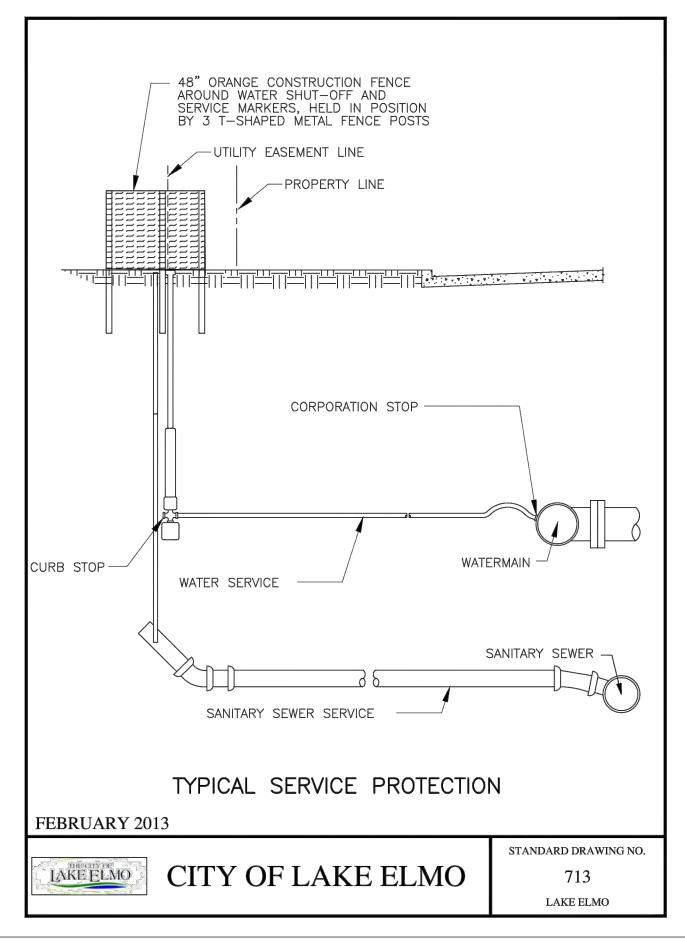




. STREET LIGHTING SHALL BE INSTALLED PER CITY STANDARDS 5 FEET BACK OF CURB









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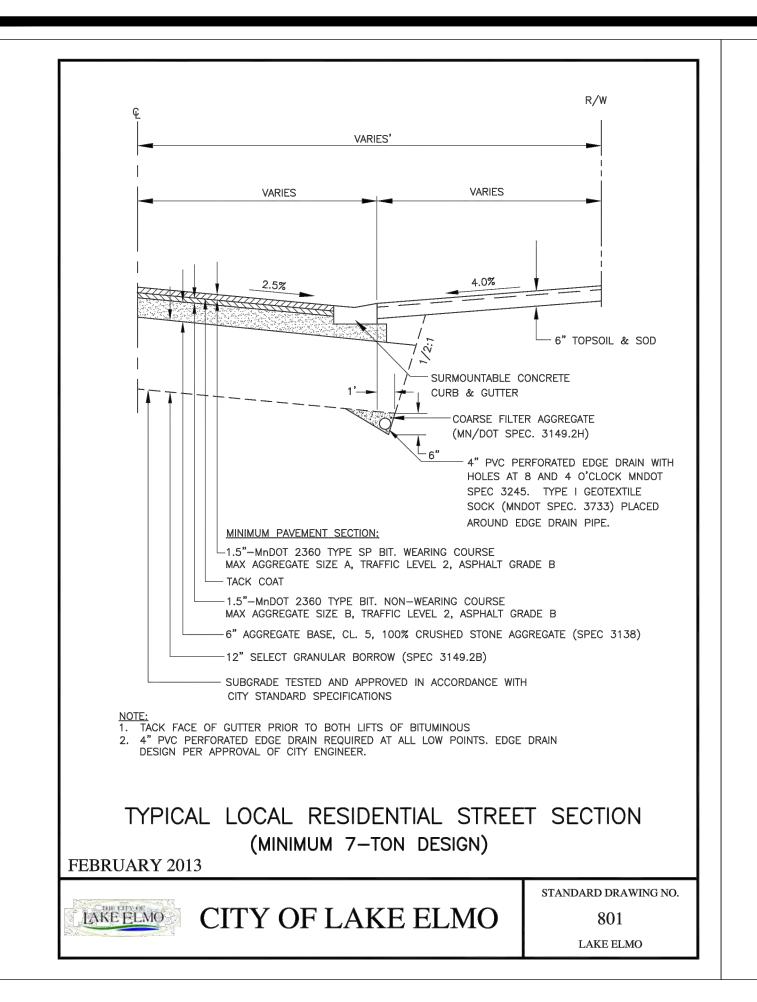
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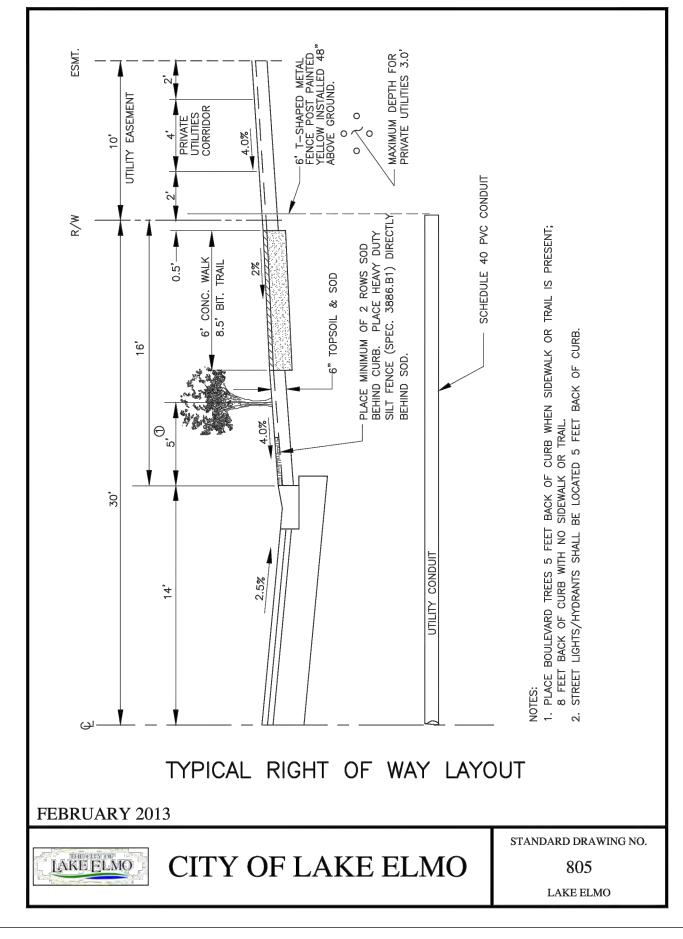
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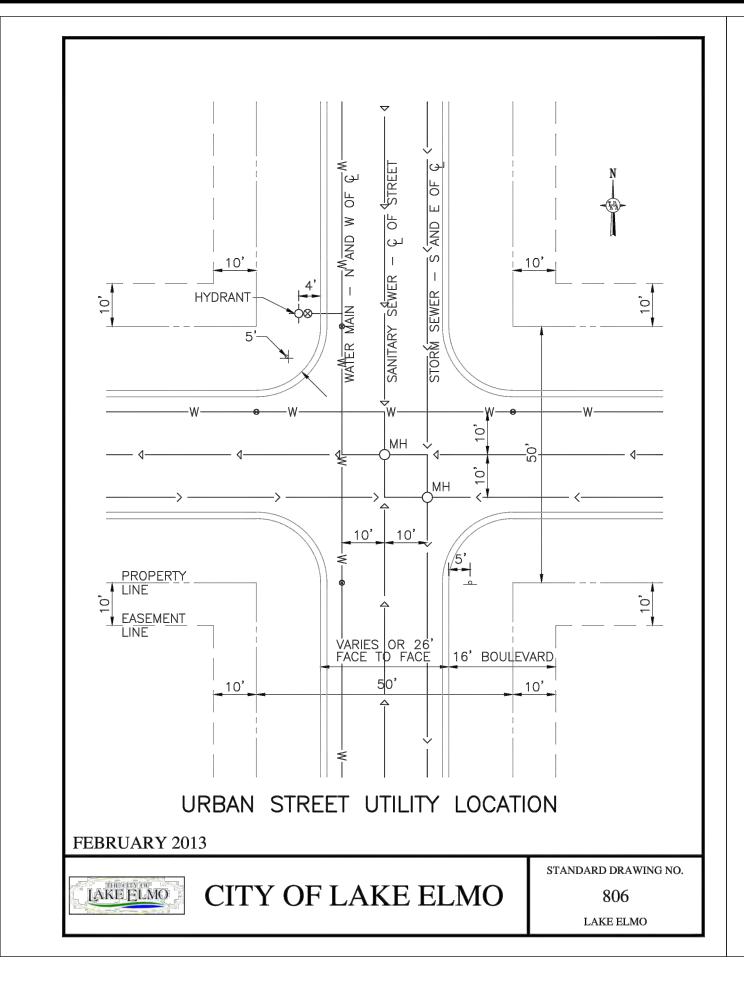
HUNTERS CROSSING LAKE ELMO, MINNESOTA

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- PROVIDE AND INSTALL PLANT MATERIALS THAT MEET SPECIFICATIONS AND ARE OF THE SIZE, TYPE AND SPECIES GIVEN IN THE PLANT SCHEDULE OR SHOWN ON THE PLANS.
- 2. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE, IN THE EVENT OF QUANTITY DISCREPANCIES, THE DRAWING SCALE SHALL TAKE PRECEDENCE.
- 3. NO PLANT MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CITY.
- 4. ALL PLANT MATERIALS TO BE SPECIMEN GRADE, MINNESOTA-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:
 - ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, AND SCARS. ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES. ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES. ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING. CONIFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3.
- 5. PLANT MATERIALS SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSIZ 60.1) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED, AND SHALL BE INSTALLED PER ANS NURSERY PLANTING PRACTICES.
- . CONTRACTOR SHALL CONTACT GOPHER STATE "ONE CALL" (651-454-0002) TO VERIFY UNDERGROUND UTILITY LOCATIONS PRIOR TO PLANTING AND PLANT MATERIAL DELIVERY.
- 7. PLANTS SHALL BE PLANTED IMMEDIATELY UPON ARRIVAL AT THE SITE.
- 8. ALL AREAS NOT SPECIFICALLY SHOWN AS PLANTED IN OTHER LANDSCAPE MATERIALS AND ALL SLOPES AND ON-SITE AREAS DISTURBED BY CONSTRUCTION, SHALL BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED AND ACCEPTED BY THE CITY.
- 9. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANTINGS, INCLUDING MULCHING, MOWING, WATERING, AND PRUNING UNTIL THE PLANT MATERIAL IS FULLY ESTABLISHED.
- 10. ALL BOULEVARD AREAS AND AREAS DISTURBED ADJACENT TO THE SITE SHALL BE REPAIRED, REPLACED, OR CORRECTED BY THE CONTRACTOR WITH QUALITY LAWN SOD.
- 11. PLANT MATERIALS SHALL BE SUBJECT TO A FULL ONE-YEAR WARRANTY BEGINNING UPON FINAL WRITTEN ACCEPTANCE BY THE CITY. DEFECTIVE MATERIALS SHALL BE REPLACED, AND REPLACEMENT MATERIALS SHALL RECEIVE A FULL ONE-YEAR WARRANTY FROM THE REPLACEMENT PLANTING DATE.
- 12. TREES SHALL BE FURTHER WARRANTED TO REMAIN UPRIGHT FOR A FULL TWO-YEAR

STANDARD PLAN NOTES

LANDSCAPE PLANS

FEBRUARY 2013



STANDARD DRAWING NO. 900A

LAKE ELMO

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Paul Olle Paul J. Cherne

Date 08-06-2014

08-06-201 PJC/KAW KAW/AJR

CITY DETAILS

RYLAND HOMES 7599 ANAGRAM DRIVE EDEN PRAIRIE, MINNESOTA 55344

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