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COUNTRYSIDE 3RD ADDITION - SHAKOPEE, MN

These plans shall be considered part of the project Storm Water Pollution Prevention Plan (SWPPP.) A copy of the SWPPP shall remain on site throughout active construction.

PROJECT SUMMARY

COUNTRYSIDE 3RD ADDITION is a single-family residential development project. The project includes construction of building pads, streets, utilities and stormwater management basins.

TYPE OF PROJECT: Platting and development of 17 Single-family Residential Lots

TYPE OF WORK: Clearing and grubbing, demolition of existing houses, mass grading, utility and street construction and installation of phone, communication, gas and electric utilities.

TOTAL SITE AREA: 5.44 AC

TOTAL IMPERVED AREA: XX.XX AC

EXISTING IMPERVIOUS AREA: 0.00 AC

PROPOSED (DESIGN) IMPERVIOUS AREA: XX.XX AC

IMPAIRED WATERS: There are NO impaired or special waters within a 1-mile radius of the site.

A mandatory Stormwater Pollution Prevention Plan (SWPPP) review is required by the MPCA if the project will disturb over 50 acres and has a discharge point on the project within 1 mile (aerial radius measurement) of, and flows to the impaired water. Owners must submit the application for coverage and the SWPPP at least 30-days before the construction start date. The SWPPP can be attached electronically when using the online application.

CONSTRUCTION PHASING

Mass grading will be one phase. Site grading and demolition may occur simultaneously. Mass grading is anticipated to take 3-4 weeks, which will include the construction of the stormwater basins. Utility installation will immediately follow grading. Upon completion of utilities, street construction will take place. Final construction work prior to home construction includes installation of phone, cable, gas and electric utilities, as well as retaining wall construction.

MPCA STORMWATER PERMIT - RESPONSIBILITY

Steven Behnke is the Owner for the development. The owner will apply for the Stormwater Permit and shall remain responsible for implementation of the SWPPP until final stabilization and filing of the N.O.T. or Subdivision Registration Form.

OWNER:

Steven Behnke - Donnay Homes - 763-531-0714

PERMITTEE:

TBD

OPERATOR(S):

TBD

ENGINEER:

John Bender, PE, Proj. Mgr - James R. Hill, Inc. - 952-890-6044

LGU CONTACT:

Alex Jordan, PE, City Engineer - City of Shakopee - 952-233-9361

MPCA COMPLIANCE:

Angie Gandini - 507-344-5240

The Contractor shall follow the implementation sequence as described on these plans. Amendments shall be made as site conditions change. Amendments shall be reviewed by the engineer.

IMPLEMENTATION OF THE SWPPP

The GENERAL CONTRACTOR (GC) or their subcontractor is responsible for implementation of the SWPPP. Contractor has or will provide trained personnel responsible for inspection of erosion and sediment control BMPs. Either the Contractor or their subcontractor will provide trained personnel responsible for installing and maintaining erosion and sediment control BMPs.

Long term operation and maintenance of the permanent stormwater management system will the responsibility of City of Shakopee.

DOCUMENTATION OF TRAINED INDIVIDUALS

Prior to start of construction, GC and/or their subcontractors shall ensure they have proper documentation for all individuals involved in implementing the SWPPP, as well as all involved individuals as described in section 21 of the General Stormwater Permit.

SWPPP Design: Josh Olson, PE, training by University of Minnesota "Design of Construction SWPPP, 2023-2026. Instructor: Online

SWPPP Contact for Contractor: TBD

Alternate SWPPP Contact for Contractor: TBD

REQUIREMENTS FOR NOTICE OF TERMINATION (NOT)

Before the submitting the NOT, the permittee must meet the following requirements:

- All construction activity associated with the project must be completed.
- All pervious surfaces must be stabilized with permanent vegetative cover having a growth density of 70% of the expected full growth density (unless a specific area of the site specifies no vegetation.)
- The stormwater treatment system (basins, pipes, structures, ditches, swales, etc.) is cleaned, removing all accumulation of sediment and debris.
- All synthetic erosion and sediment prevention BMPs have removed.

RECORD RETENTION

During construction, the Contractor must retain a copy of the SWPPP and any amendments thereto on site at all times (or on the portion of the site for which the Contractor has control.) The SWPPP may be kept in a designated repository, in the construction field office or in an on-site vehicle during normal working hours. Copies of all maintenance records, inspection reports shall also be retained on site with the SWPPP.

Upon completion of all construction and submittal of the NOT, the Owner shall retain the SWPPP documents for no less than three years, including the final SWPPP, other stormwater related permits, inspection and maintenance records, SWMP operational and maintenance agreements, and any other documents or binding agreements that relate to the operation and maintenance of the SWMP.

GC and/or their subcontractors shall ensure they have proper documentation for all individuals involved.

POTENTIAL FOR EROSION AND DISCHARGE OF SEDIMENT

There is moderate potential for erosion to occur. Certain portions of the site have grades exceeding 5% and shall be closely managed to prevent erosion. Temporary sediment traps or basins shall be considered in the final SWPPP implementation. Redundant protection is required along all wetlands. Contractor shall be required to appropriately manage individual erosion-prone areas, using BMP's suitable for the particular application.

GENERAL CONSTRUCTION SEQUENCING

- Install perimeter control. Install inlet protection on existing structures.
- Perform any clearing, as needed.
- Perform demolition and debris removal.
- Place topsoil perimeter berms and stabilize with seed and mulch.
- Grade stormwater basins. Perform mass grading. As sheet drainage patterns develop, place silt fence or filter dikes as necessary to dissipate sediment transfer.
- Construct utilities and pavements.
- Construct buildings and structures.
- Install phone, cable, gas and electric utilities.
- Stabilize basins and swales with final stabilization. Stabilize landscape areas with final permanent vegetation, landscaping or turf. Stabilize future development areas with temp seed and mulch until final site development stage.

GUIDANCE FOR TIMING OF BMP INSTALLATION

Prior to Start of Construction

- Install all new perimeter control BMPs as specified on plans prior to start of construction. Ensure that all existing perimeter control BMPs are functional.
- Install or establish stabilized construction entrance.
- Install protection devices on existing ponds, outlets, storm sewer inlets, etc. prior to start of construction.
- Install sediment control practices on down gradient site perimeters.

During Construction

- Identify topsoil stockpile locations and stabilize with temporary seed and mulch.
- Areas in which construction becomes inactive must have stabilization commence immediately and be completed no later than 7 days after construction activity in that area has either temporarily or permanently ceased.
- Provide temporary or permanent energy dissipation at all pipe outlets within 24 hours of connection to a Surface Water.
- Minimize active construction areas. Where possible, establish final grade and stabilize with permanent vegetation, particularly around stormwater basins, filter strips, berms etc.
- During grading construction, utilize street "hold down" areas for sediment trapping. Direct overland construction runoff towards stormwater basins to the fullest extent practicable.
- After construction is completed and grades are certified in a particular area of the site, review that the area is ready for permanent vegetation or other permanent cover.
- Identify locations where topsoil stockpiles will be placed for builders. Stabilize with temporary seed and mulch and install perimeter control around stockpile circumference. Stockpiles shall be located outside of natural buffers or surface waters, included stormwater conveyances, unless there is a bypass in place.
- During Inactivity or After Construction**
 - Areas in which construction becomes inactive must have stabilization commence immediately and be completed no later than **14 days** after construction activity in that area has either temporarily or permanently ceased.
 - Final stabilization cover types are shown on **Sheet X** of the plan set. Final cover consists of vegetation, paved or gravel surfaces, sod, landscaping and buildings.
 - At the point where vegetated cover has achieved 70% of expected full growth density, vegetated areas can be considered fully stabilized. Removal of synthetic sediment control BMPs can be initiated.
 - Basins that have received sediment deposits shall be re excavated to plan grade, removing accumulated sediment. Verify final grade and basin capacities.
 - Inlet protection devices can be removed from structures as the attributing drainage area becomes fully stabilized.
 - Maintain street and drive sweeping activities until construction activities are fully completed.

EROSION CONTROL BMPs

The construction plans anticipate the use of, but are not limited to, the following Erosion Control BMPs:

- Stabilized Construction Entrance
- Temporary straw mulch as needed.
- Seed and mulch
- Erosion Control Blanket
- Turf Reinforcement Mat (TRM)
- Rip rap
- Minimize active or disturbed work areas

SEDIMENT CONTROL BMPs

The construction plans anticipate the use of, but are not limited to, the following Sediment Control BMPs

- Sediment traps constructed in street subcut or other strategic locations
- Rock filter dikes in street subcut
- Utilize permanent stormwater basins as Temporary Sediment Basins
- Silt fence at project perimeter or toe of slopes
- Inlet protection on existing catch basins
- Inlet protection on existing culverts
- Inlet protection after utility construction
- Rock checks or bio roll checks
- Linear control along back of new curb and gutter or concrete (bioroll or silt fence)
- Post construction silt fence along normal wetted perimeters of basins and filter strips.
- Routine street sweeping adjacent to construction entrance.

Refer to plans for designated locations of BMPs, details and implementation notes.

All BMP's selected and implemented shall be appropriate for the time of year, the current site conditions and for the estimated duration of use.

BASIN AND TRAP DEWATERING BMPs

Should the need arise for basin or trap dewatering, Contractor shall utilize a floating skimmer pump intake, such that the water is drawn from the surface of the basin. Pumped effluent shall not be discharged into Surface Waters in a turbid state.

Turbid effluent shall be filtered with mechanical devices, chemical filtering, or a combination thereof, to a state of 50 NTUs or less.

POLLUTION CONTROL BMPs

BMP's and good housekeeping should be implemented to prevent spills, pollutants or chemicals from entering the drainage system.

- Fueling: A fixed fueling station is not anticipated. Contractor will be required to **implement BMPs for onsite re-fueling of equipment.**
- Concrete Washout: Refer to MPCA's recommendation for concrete washouts. The developer has the ability to adjust location or to provide alternative washout containment.
- There is not an anticipated need for storing chemicals, paints, solvents or other potentially toxic or hazardous materials on site. If at some point there is a need to store them on site, they must be stored in a receptacle or container capable of retaining spills. The container must be fenced and locked from unauthorized access.**
- Portable toilets shall be positioned and secured to prevent tipping over.

SEED & MULCH SPECIFICATIONS

Seed placed for permanent cover or final stabilization requires 6" minimum topsoil cover. Exception: Infiltration basins - see basin details for soil type). Multiple site visits will be required to accommodate permanent or temporary stabilization as required during the phases of construction.

(1)General Roadside Seed & Mulch

- Seed: **MNDOT 25-141** at a rate of 59 lb/acre
- Fertilizer: Type 3 slow release10-10-10 NPK at a rate of 200 lb/acre
- Mulch: MNDOT Type 1 at a rate of 2 tons/acre

(2)Stormwater Basins

- Seed: **MNDOT 33-261** at a rate of 35 lb/acre
- Fertilizer: Type 3 slow release10-10-10 NPK at a rate of 200 lb/acre
- Mulch: MNDOT Type 3 at a rate of 2 tons/acre

(3)Wetland Buffer

- Seed: **MNDOT 35-241** at a rate of 36.5 lb/acre
- Fertilizer: Type 3 slow release10-10-10 NPK at a rate of 200 lb/acre
- Mulch: MNDOT Type 3 (MCIA certified weed free mulch) at a rate of 2 tons/acre

(4)Hydroseeding - Stockpiles and Boulevards

- Seed: **MNDOT 22-111** seed and hydraulic Type 1 mulch at a rate of 10 lb/1000 gal
 - Fertilizer: Type 3 slow release10-10-10 NPK at a rate of 200 lb/acre
 - Mulch: MNDOT Type 1 at a rate of 2 tons/acre
- (5)Temporary Cover Crop for Upland Buffers/Buffers/Adjacent Slope Areas
- Seed: **MNDOT 21-112** Spring-Summer (**21-112** Winter) at a rate of 100 lb/acre
 - Fertilizer: Type 3 slow release10-10-10 NPK at a rate of 200 lb/acre
 - Mulch: MNDOT Type 1 at a rate of 2 tons/acre

INSPECTION AND MAINTENANCE OF BMPs

Routine Inspection

- Rock Entrances - Inspect daily. If rock becomes filled with sediment and tracked material to the extent the purpose ceases to function, remove the contaminated rock and replace with new rock.
- Silt fence - Inspect weekly, particularly for damaged sections, breaches, down-gradient areas, flow concentration points, scour areas and sections adjacent to sensitive areas. Where capacity is filled to more than 50% of depth, sediment shall be removed to restore capture capacity.
- Sediment traps and basins - Inspect weekly. Where capacity is filled to more than 50% of depth, sediment shall be removed to restore capture capacity within 72 hours of discovery.
- Inlet Protection - Inspect weekly or more frequently as needed after multiple rainfalls less than 0.5". Verify intake capacity is not compromised. Where capacity is filled to more than 50% of depth, sediment shall be removed to restore capture capacity.
- Slope - Inspect steep slopes for rills and gullies, often forming after placement of topsoil, seed and erosion control blanket. As a guide, repair and re stabilize eroded areas where rills exceed 6" in depth.
- Inspect other site-specific BMP's on a weekly basis minimum.

Rain Event Inspection - Mandatory, within 24 hours after a rain event 0.5" or greater. Complete all items associated with Routine Inspection. Furthermore, inspect site for breaches, failures, scours and gullying. Take corrective actions as necessary to restore functionality to the BMP's. If a given situation is discovered to be prone to repetitive failure, advise the Engineer and Contractor for SWPPP and BMP amendments.

ADDITIONAL SWPPP NOTES

- All Erosion and Sediment Control facilities shall be maintained by the Contractor during the construction operations. Any temporary facilities which are to be removed as called for on these plans and specifications shall be removed by the Contractor at the time directed by the engineer. The Contractor shall then restore the subsequently disturbed areas in accordance with these plans and specifications.
- Wherever practical and feasible, the Contractor shall protect and preserve existing natural trees, grass and other vegetative cover in effort to provide natural buffering and filtering of runoff.
- Contractor shall be adaptable in adjusting construction schedules in anticipation of weather forecasts of precipitation, in order to minimize risk of erosion and sediment transport.
- It is the responsibility of the Contractor to keep public streets, travel ways, parking lots and trails utilized for ingress to and egress from the construction site free of dirt, sediment and debris, resulting from construction activity. Cost for this shall be considered incidental to the contract.
- Adequate control of dust shall be maintained by the Contractor. Cost for dust control shall be considered incidental to the contract.
- Perimeter controls shall not be removed until final stabilization of areas draining toward the control devices.
- When temperatures do not exceed 40° F, areas that require seed and mulch stabilization shall be dormant seeded. Application rate shall be two times the normal rate. No dormant seeding shall be done on ice or snow greater than 2" in depth.
- Any areas that were seeded that do not achieve 70% coverage shall be reseeded at the Contractor's expense, where coverage limitation is caused by lack of seed germination and growth.

STORMWATER BASIN MAINTENANCE

All stormwater basins within the project will be owned and maintained by the City. Suggested practices are as follows:

- For the first three years after construction, basins should be inspected for obvious signs of erosion, such as gullies, rills or sediment plumes. Identify the cause and take corrective measures such that grades are restored and surfaces re-established with appropriate vegetation.
- During the first year after final stabilization, mow the slopes of stormwater basins, approximately 30-day intervals, 6"-8" high. Over-seed any areas not fully established.
- Inspect for sediment accumulation at the pipe outlets into the pond at the completion of sod installation of last lot in plat. Remove sediment. Re-inspect every 3-5 years.
- Inspect inlets and outlets for blockage or debris buildup annually. Remove debris as necessary to allow for inlets and outlets to function as designed.
- Verify basin design capacity after 15 to 20 years of service.

TURF AND VEGETATION MAINTENANCE

General Seed Mixtures (25-141)

Year 1 Maintenance after Spring or Early Summer Seeding:

- Mowing during early Fall may be necessary if weed infestation or shading becomes a problem. Mow to a height of 6 to 8 inches.
- Weed Control - mowing should help control annual weeds. Spot spray weeds, etc.
- If plants are growing slowly, apply fertilizer (20-10-10 analysis) as necessary over the top to improve growth.

Maintenance after Fall or Dormant Seeding:

- Mowing in May or June may be necessary if weed infestation becomes a problem.
- Weed Control - mowing should help control annual weeds. Spot spray thistles etc.

Long Term Maintenance:

- Mow 1-3 times per year as desired, to a height of 6 to 8 inches.
- Spot spray weeds as needed.

Native Mixtures (33-261 and 35-241)

YEAR 1

Establishment (spring seeding):

- Prepare site - Late April-May
- Seed - May1 to June 1

Maintenance:

- Mow (6-8 inches) - Every 30 days after planting until September 30.
- Weed Control - mowing should help control annual weeds. Spot spray weeds, etc.

Establishment (fall seeding):

- Prepare site - Late August - early September
- Seed - Late September to freeze up.

Maintenance (following season):

- Mow (6-8 inches) - once in May, June and July
- Weed Control - mowing should help control annual weeds. Spot spray weeds, etc.

Evaluation:

- Cover crop growing within 2 weeks of planting (except dormant plantings.)
- Seedlings spaced 1-6 inches apart in drill rows.
- Native grass seedlings may only be 4-6 inches tall.
- If there is a flush of growth from foxtail, etc., mow as necessary.

YEAR 2

Maintenance:

- Mow (6-8 inches) one time between June 1 -August 15 before weeds set seed.
- Weed Control - mowing should keep annual weeds down. Spot spray weeds, etc.
- Some sites may not require much maintenance the second year.

Evaluation:

- Cover crop will be gone unless winter wheat was used in fall planting.
- Grasses forming clumps 1-6 inches apart in drill rows, but still short.
- Some flowers should be blooming (Black eyed Susans, Bergamot, etc.)
- If there is a flush of growth from foxtail, etc., mow site to a height of 6 to 8 inches.

YEAR 3 to 5

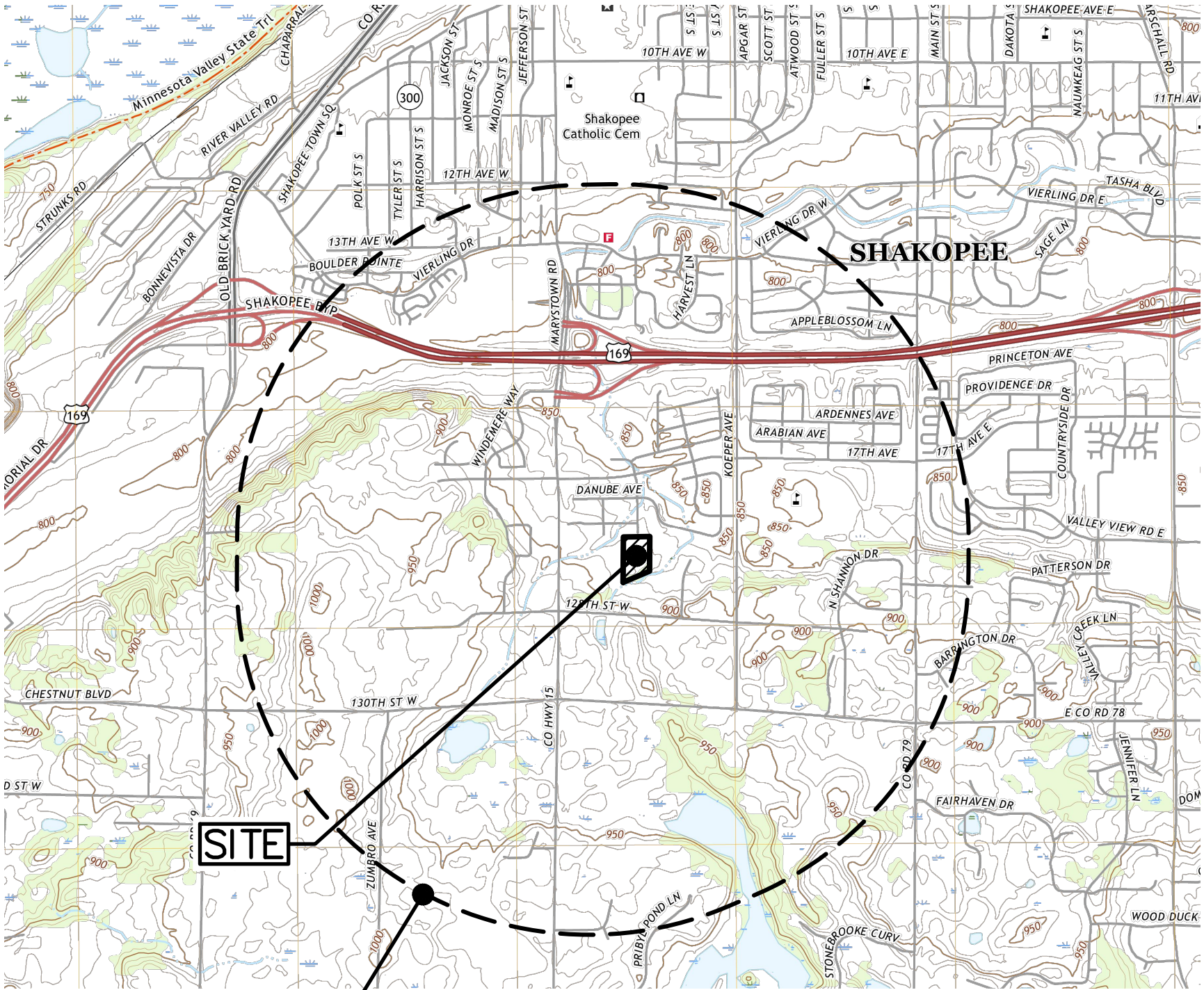
Maintenance:

- Mow only if necessary.
- Weed Control - spot spray weeds, etc.
- Sites usually do not require much maintenance the third year.

Evaluation: Planting should begin to resemble a prairie, with tall grasses, flowers, etc.

EROSION AND SEDIMENT CONTROL ESTIMATED QUANTITIES

STANDARD DUTY SILT FENCE	LF	1,983
STANDARD DUTY SILT FENCE - POST CONSTRUCTION	LF	574
STABILIZED CONSTRUCTION EXIT	EA	1
CATCH BASIN INLET PROTECTION	EA	9
MNDOT SEED AND MULCH 25-121 (GENERAL MIX) - 1.5X	AC	3.0
MNDOT SEED AND MULCH 33-261 (STORMWATER MIX) - 1.5X	AC	0.3



1-MILE RADIUS

USGS MAP

1" = 2000'



USDA SOIL MAP

1" = 200'

James R. Hill, Inc.

PLANNERS / ENGINEERS / SURVEYORS

2999 W. Cty. Rd. 42, SUITE 100, BURNSVILLE, MN 55306

PHONE: (952)890-6044 FAX: (952)890-6244

I hereby certify that this plan, specification or report 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: _____ Reg. No. _____

COUNTRYSIDE 3RD ADDITION
SHAKOPEE, MINNESOTA
EROSION & SEDIMENT CONTROL PLAN

FOR SWPPP

DONNAY HOMES, INC.

9655 63RD AVENUE NORTH, MAPLE GROVE, MN 55369

DRAWN BY
JSO

DATE
11/06/23

REVISIONS

12/28/2023 CITY COMMENTS

CAD FILE
24119ERD

PROJECT NO.
24119

3.2

supplemental conditions for grading are included with the attachments. This will need to be signed and returned to the City prior to grading operations commencing.

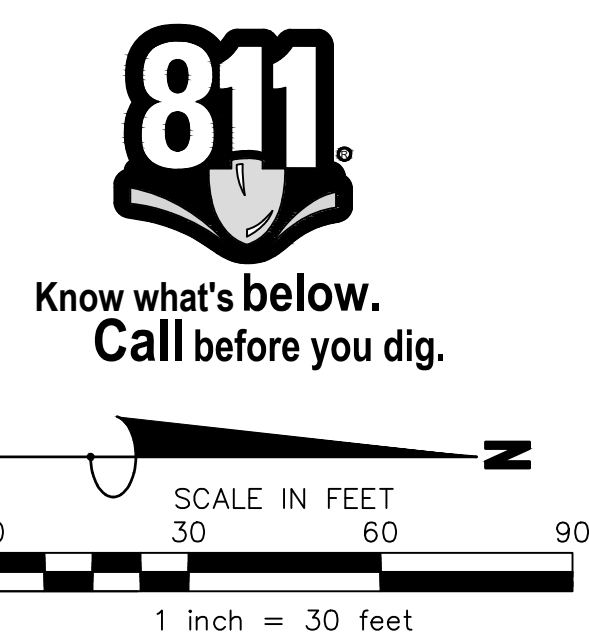
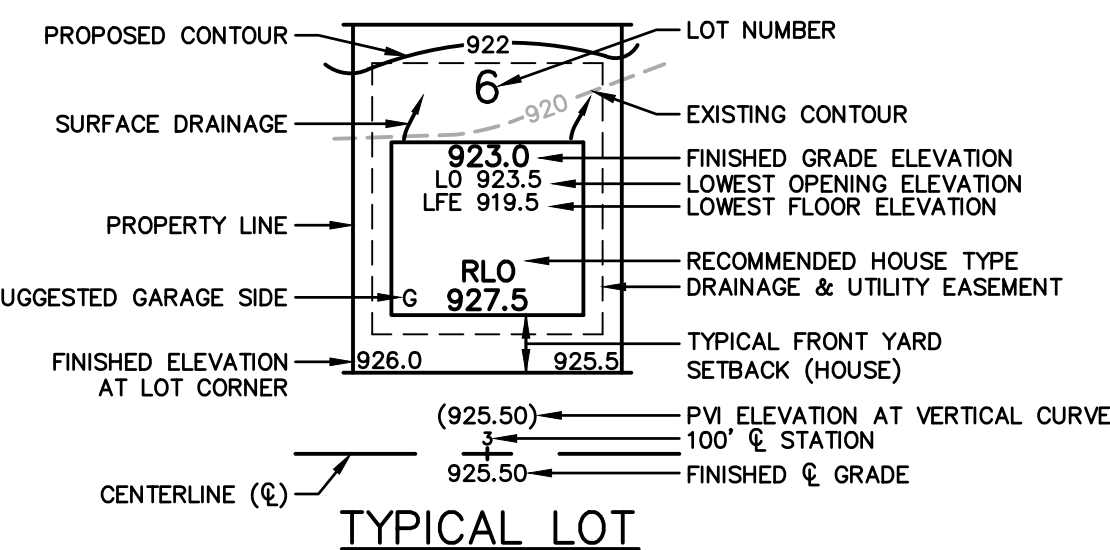
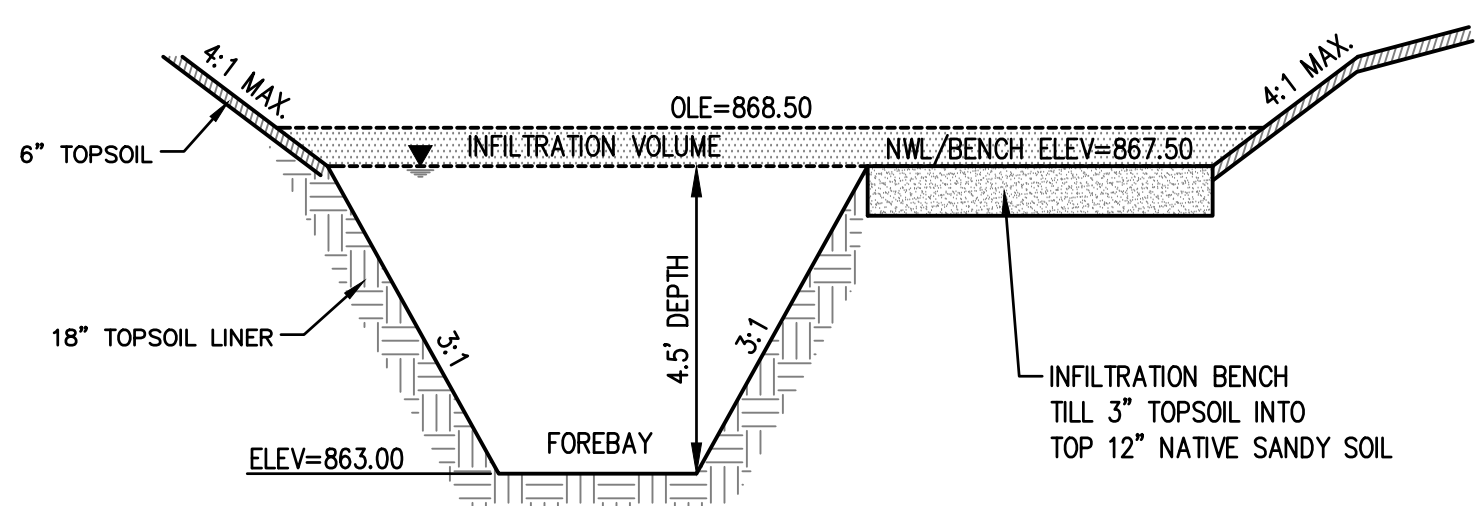
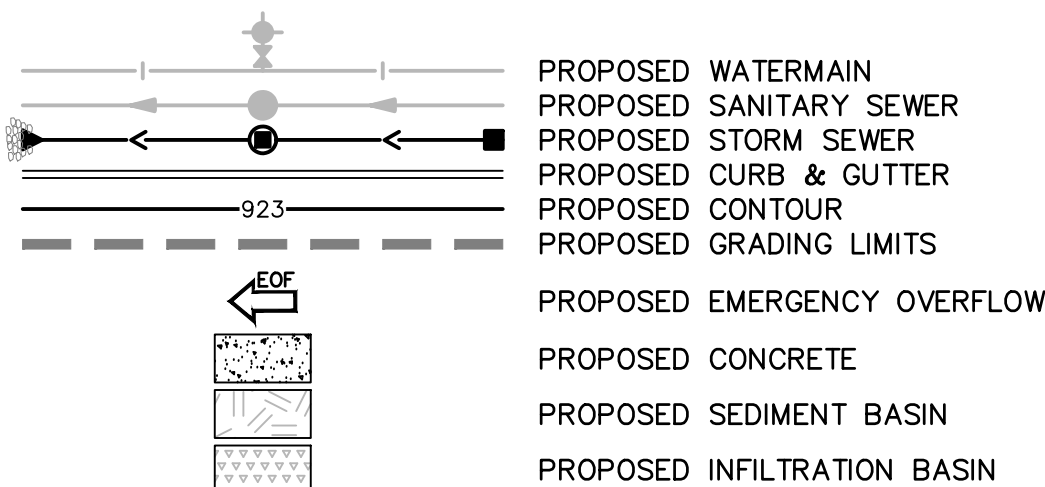
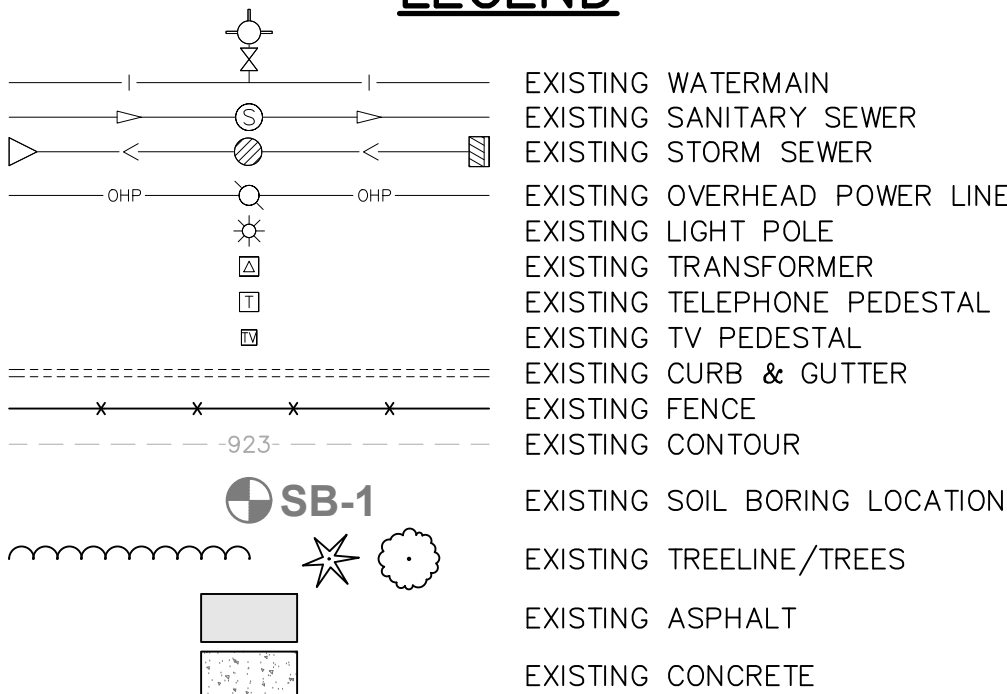
STANDARD GRADING NOTES:

1. SPECIFICATIONS WHICH APPLY ARE THE MOST RECENT EDITIONS OF THE MUNICIPALITY IN WHICH THE WORK IS LOCATED AND THE MINNESOTA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION UNLESS MODIFIED HEREIN ON THESE CONTRACT DOCUMENTS.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO UTILIZE THE "GOPHER STATE ONE-CALL" EXCAVATION NOTICE SYSTEM AS REQUIRED UNDER MINNESOTA STATUTE CHAPTER 216D. CALL 811 OR SUBMIT A TICKET AT gopherstateonecall.org AT LEAST 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION.
3. GRADING CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO CONSTRUCTION.
4. ALL CONSTRUCTION AS CALLED FOR ON THESE CONTRACT DOCUMENTS SHALL BE PERFORMED IN ACCORDANCE WITH ALL OSHA REQUIREMENTS.
5. ALL LOT AND EASEMENT DIMENSIONS ARE SUBJECT TO FINAL PLAT.
6. IT IS THE RESPONSIBILITY OF THE GRADING CONTRACTOR TO DISPOSE OFF-SITE ALL TREES, STUMPS, BRUSH, OR OTHER DEBRIS THAT EXISTS WITHIN THE CONSTRUCTION AREAS. TREES TO REMAIN SHALL BE DESIGNATED BY THE ENGINEER.
7. THE GRADING CONTRACTOR SHALL SCHEDULE THE SOILS ENGINEER SO THAT CERTIFICATION OF ALL CONTROLLED FILLS CAN BE FURNISHED TO THE OWNER DURING AND UPON COMPLETION OF THE PROJECT.
8. DENSITY TESTS SHALL BE TAKEN TO EVALUATE THE COMPACTION WITHIN THE STREETS, TRAVEL WAYS OR PARKING LOTS. WITHIN THE UPPER 3 FEET OF STREET, TRAVEL WAYS OR PARKING LOT SUBGRADE, THE CONTRACTOR SHALL INSURE THAT ALL SOILS BE NOT MORE THAN ONE PERCENTAGE POINT OVER THE SOIL'S STANDARD PROCTOR OPTIMUM MOISTURE CONTENT, AND THAT COMPACTION TO A MINIMUM OF 100% OF STANDARD PROCTOR DENSITY BE PROVIDED. IN AREAS BELOW THE UPPER THREE FEET OF SUBGRADE OF THE STREETS, TRAVEL WAYS OR PARKING LOTS, THE CONTRACTOR SHALL INSURE THAT ALL SOILS BE NOT MORE THAN THREE PERCENTAGE POINTS OVER THE SOIL'S STANDARD PROCTOR OPTIMUM MOISTURE CONTENT, AND THAT COMPACTION TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY BE PROVIDED. THE GRADING TOLERANCE FOR THESE AREAS SHALL BE WITHIN 0.1"±.
9. LOT GRADING AND/OR THE PREPARATION OF BUILDING PADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE GRADING TOLERANCE SHALL BE 0.30"±. ALL EARTHWORK OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE HUD-FHA DATA SHEET 79G "LAND DEVELOPMENT WITH CONTROLLED EARTHWORK", PROVIDING FOR A MINIMUM OF 95% STANDARD DENSITY, OR AS OTHERWISE SPECIFIED BY THE GEO-TECHNICAL ENGINEER.
10. IN AREAS WHERE RETAINING WALLS ARE PROPOSED ON CONTROLLED FILL AREAS, A MINIMUM 95% STANDARD DENSITY NEEDS TO BE ATTAINED WHERE FILL THICKNESS EXCEEDS 10' BELOW WALL FOUNDATION ELEVATIONS, A HIGHER MINIMUM OF 98% SHALL BE ATTAINED.
11. BUILDING PADS SHOWN ON EACH LOT ARE TYPICAL ONLY. THE DEPTH OF THE PAD FROM FRONT TO BACK SHALL BE GRADED THROUGHOUT THE FULL WIDTH OF THE LOT OR AS NECESSARY TO ALLOW FOR CONSTRUCTION OF A BUILDING AT THE MINIMUM SIDE YARD SETBACKS. (REFER TO THE PLANS FOR SPECIFIC SETBACK DISTANCES.) IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED WITHIN A PROPOSED BUILDING PAD THAT CANNOT BE CORRECTED OR REMOVED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF THE CONDITIONS AND TO LOCATE THE LIMITS OF THE UNSUITABLE AREAS.
12. THE SITE GRADING TOLERANCE FOR THE SITE SHOULD BE ±0.1' FOR STREETS AND ±0.30' FOR LANDSCAPED/OPEN AREAS.
13. TOPSOIL SHALL BE RE-SPREAD AT A MINIMUM DEPTH OF 6" ON ALL DISTURBED AREAS TO BE VEGETATED.

SPECIFIC GRADING NOTES:

1. THE EXISTING TOPOGRAPHY AND CONTOUR ELEVATIONS ON THE PLANS WERE PROVIDED BY MNTPO LIDAR, AND SUPPLEMENTED WITH FIELD ELEVATIONS OBTAINED BY JAMES R. HILL ON OCTOBER 12, 2023. THE DEGREE OF ACCURACY OF THE EXISTING CONTOURS SHOWN ON THE PLAN IS EQUAL TO ± ONE HALF THE CONTOUR INTERVAL.

LEGEND



COUNTRYSIDE 3RD ADDITION

SHAKOPEE, MINNESOTA

GRADING & DRAINAGE PLAN

FOR
DONNAY HOMES, INC.

9655 63RD AVENUE NORTH, MAPLE GROVE, MN 55369

DRAWN BY
EPF

DATE
11/06/23

REVISIONS

12/28/2023 QTY COMMENTS

CAD FILE
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PROJECT NO.
24119

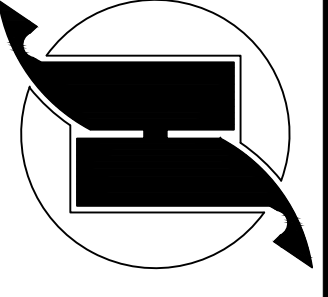
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James R. Hill, Inc.

PLANNERS / ENGINEERS / SURVEYORS

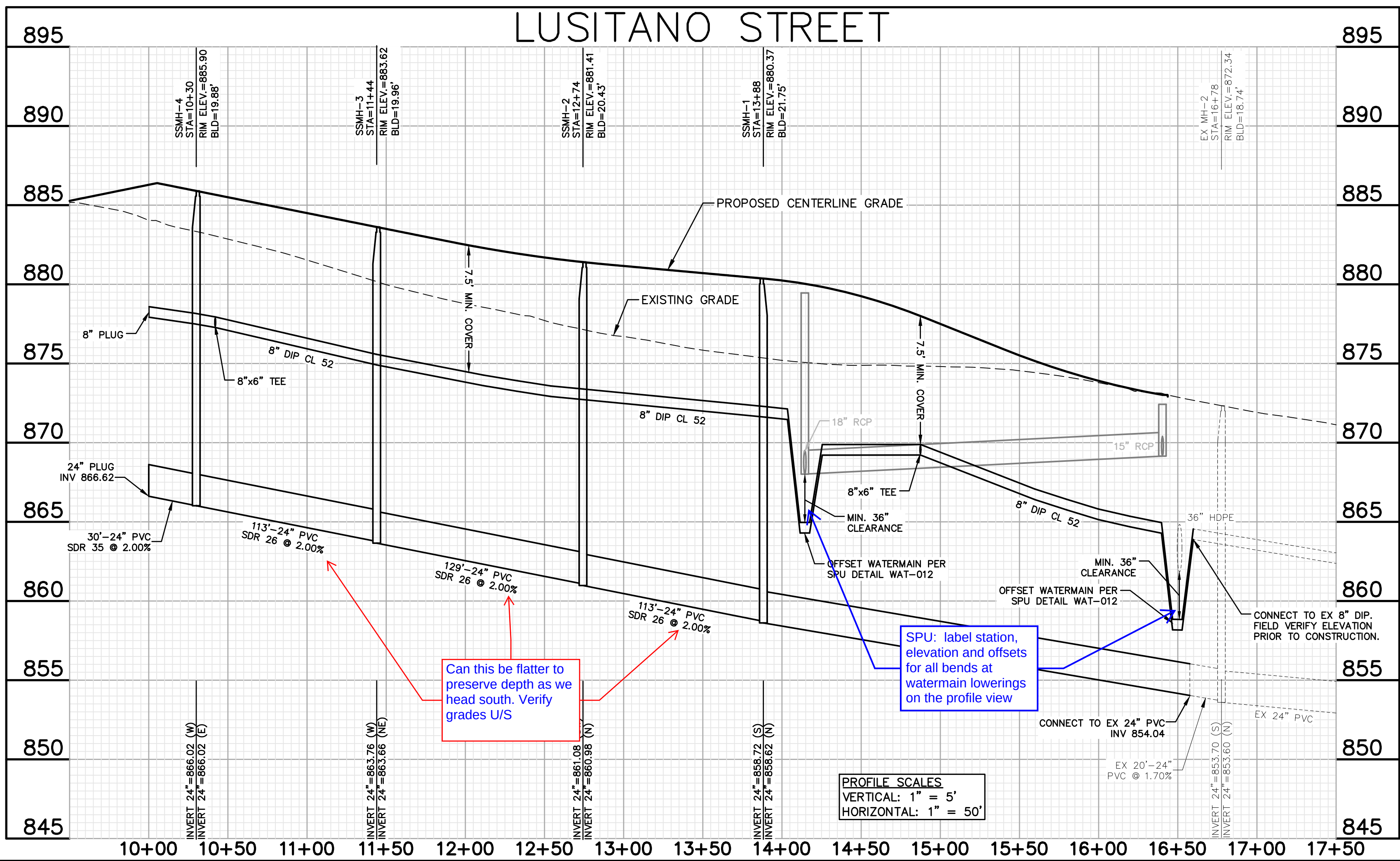
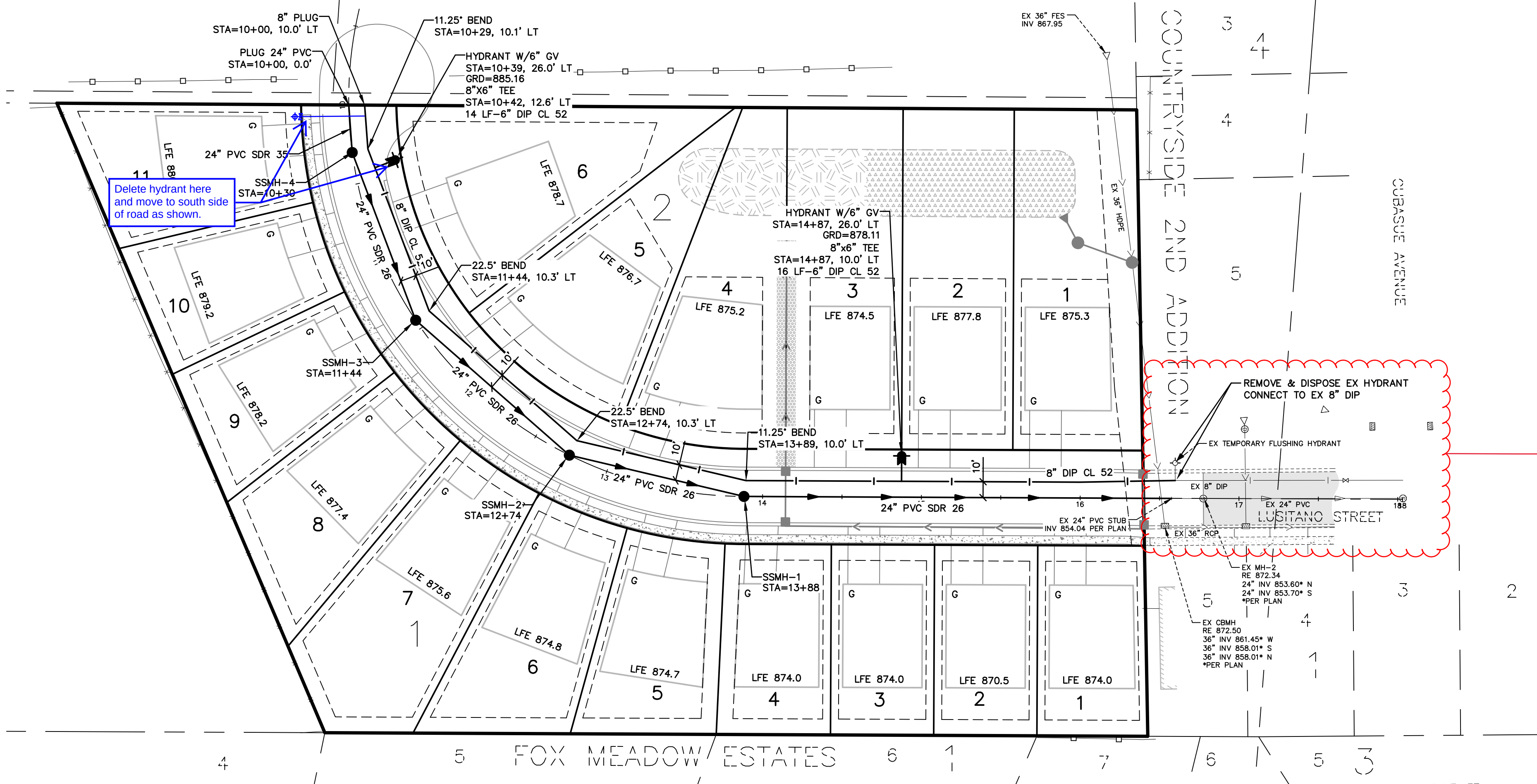
2999 W. Ctry. Rd. 42, SUITE 100, BURNSVILLE, MN 55306

PHONE: (952)890-6044 FAX: (952)890-6244

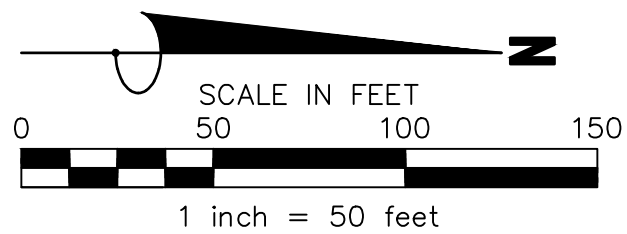


I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Date: Reg. No.

PRELIMINARY



Know what's below.
Call before you dig.



James R. Hill, Inc.
PLANNERS / ENGINEERS / SURVEYORS
2999 W. Cty. Rd. 42, Suite 100, Burnsville, MN 55306
PHONE: (952)890-6044 FAX: (952)890-6244

I hereby certify that this plan, specification or report 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.

PRELIMINARY

Date: _____ Reg. No. _____

COUNTRYSIDE 3RD ADDITION
SHAKOPEE, MINNESOTA
SANTARY SEWER & WATERMAIN CONSTRUCTION
FOR
DONNAY HOMES, INC.
9655 63RD AVENUE NORTH, MAPLE GROVE, MN 55369

DRAWN BY
JSO

DATE
11/06/23

REVISIONS

NO.	DATE	DESCRIPTION
1	12/28/2023	QTY COMMENTS

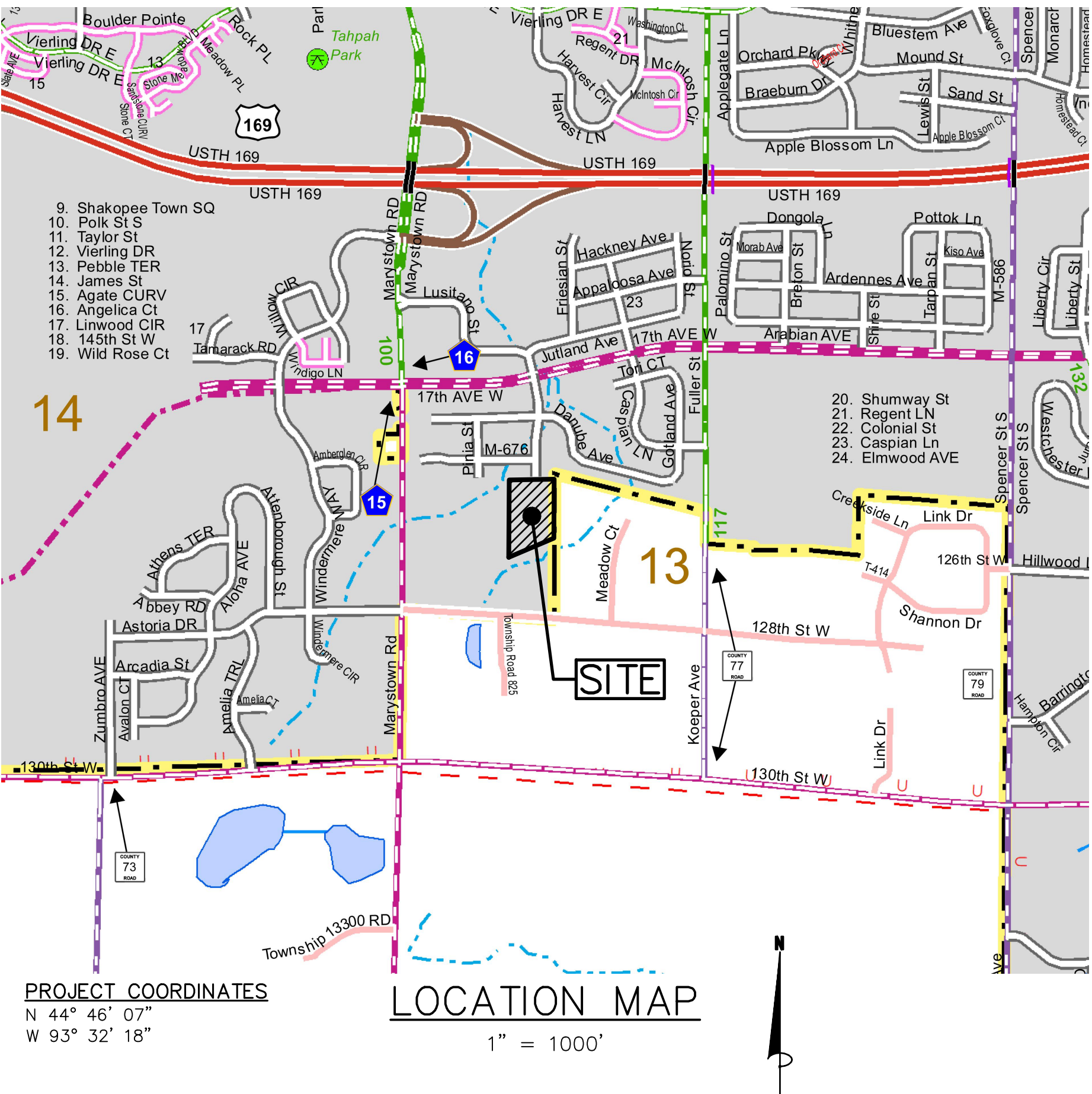
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PROJECT NO.
24119

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COUNTRYSIDE 3RD ADDITION
SHAKOPEE, MINNESOTA
PRELIMINARY PLAT EXHIBITS
FOR
DONNAY HOMES, INC.

9655 63RD AVENUE NORTH, MAPLE GROVE, MN 55369
PHONE: (763) 531-0714



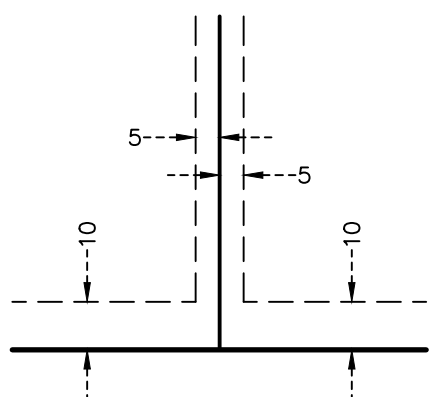
PROJECT COORDINATES
N 44° 46' 07"
W 93° 32' 18"

LOCATION MAP
1" = 1000'

SITE DATA

LOTS	17 LOTS
TOTAL SITE AREA	5.44 AC.
LOT AREA	4.56 AC.
RIGHT OF WAY AREA	0.88 AC.
EXISTING/PROPOSED ZONING IS R1B - URBAN RESIDENTIAL	
MINIMUM LOT WIDTH	60 FEET
MINIMUM LOT DEPTH	100 FEET
MAXIMUM IMPERVIOUS SURFACE	50%
MINIMUM BUILDING SETBACKS	
FRONT	25 FEET
SIDE YARD (INTERIOR)	7.5 FEET
SIDE YARD (STREET)	15 FEET
REAR	30 FEET

DRAINAGE AND UTILITY EASEMENTS
ARE SHOWN THUS:



DRAINAGE AND UTILITY EASEMENTS BEING
5 FEET IN WIDTH, UNLESS OTHERWISE
INDICATED, ADJOINING LOT LINES, AND
BEING 10 FEET IN WIDTH, UNLESS
OTHERWISE INDICATED, ADJOINING RIGHT
OF WAY LINES, AS SHOWN ON THIS PLAT.

PROJECT CONTACTS

PROJECT ENGINEER:
DEVELOPER:
CITY ENGINEER:
NPDES OFFICER:
GENERAL CONTRACTOR REPRESENTATIVE:

JOHN BENDER, P.E. - JAMES R. HILL, INC.
STEVEN BEHNKE - DONNAY HOMES, INC.
ALEX JORDAN, P.E. - CITY OF SHAKOPEE
ANGIE GANDINI - MPCA
TBD

952-890-6044 (O)
763-531-0714 (O)
952-233-9361 (O)
507-344-5240 (O)

Need street lighting plan

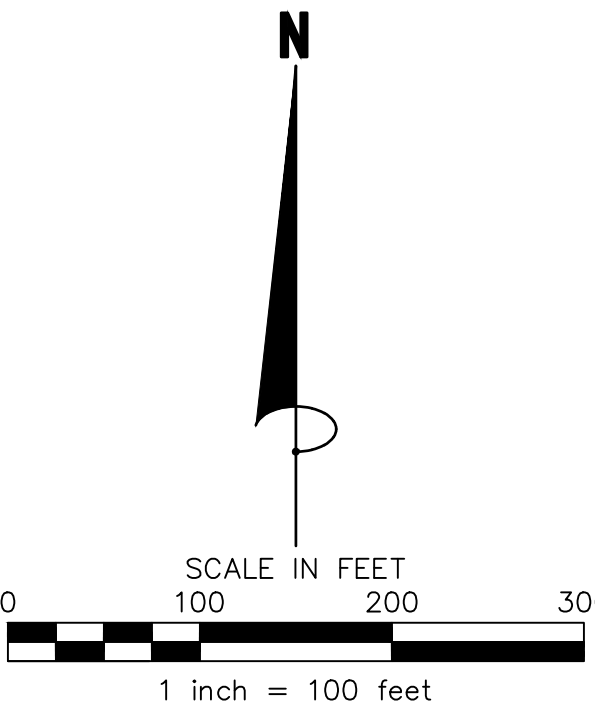
INDEX

TITLE SHEET	1.0
EXISTING CONDITIONS	1.1
PRELIMINARY PLAT	2.0
EROSION & SEDIMENT CONTROL PLAN	3.0-3.1
EROSION & SEDIMENT CONTROL DETAILS	3.2-3.8
GRADING & DRAINAGE PLAN	4.0
SANITARY SEWER & WATERMAIN CONSTRUCTION	5.0
STORM SEWER CONSTRUCTION	6.0
STREET CONSTRUCTION	6.1
CONSTRUCTION DETAILS	7.0-7.6

LEGEND

	EXISTING WATERMAIN
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	EXISTING UNDERGROUND GAS
	EXISTING UNDERGROUND ELECTRIC
	EXISTING UNDERGROUND TELEPHONE
	EXISTING UNDERGROUND FIBER OPTIC
	EXISTING OVERHEAD POWER LINE
	EXISTING LIGHT POLE
	EXISTING TRANSFORMER
	EXISTING TELEPHONE PEDESTAL
	EXISTING TV PEDESTAL
	EXISTING CURB & GUTTER
	EXISTING FENCE
	EXISTING CONTOUR
	EXISTING SOIL BORING LOCATION
	EXISTING TREELINE/TREES
	EXISTING ASPHALT
	EXISTING CONCRETE
	PROPOSED WATERMAIN
	PROPOSED SANITARY SEWER
	PROPOSED SANITARY SERVICE
	PROPOSED WATER SERVICE
	PROPOSED STORM SEWER
	PROPOSED CURB & GUTTER
	PROPOSED CONCRETE
	PROPOSED ASPHALT SURFACE
	PROPOSED SEDIMENT BASIN
	PROPOSED INFILTRATION BASIN

Include this hatch
in the legend



BENCHMARKS

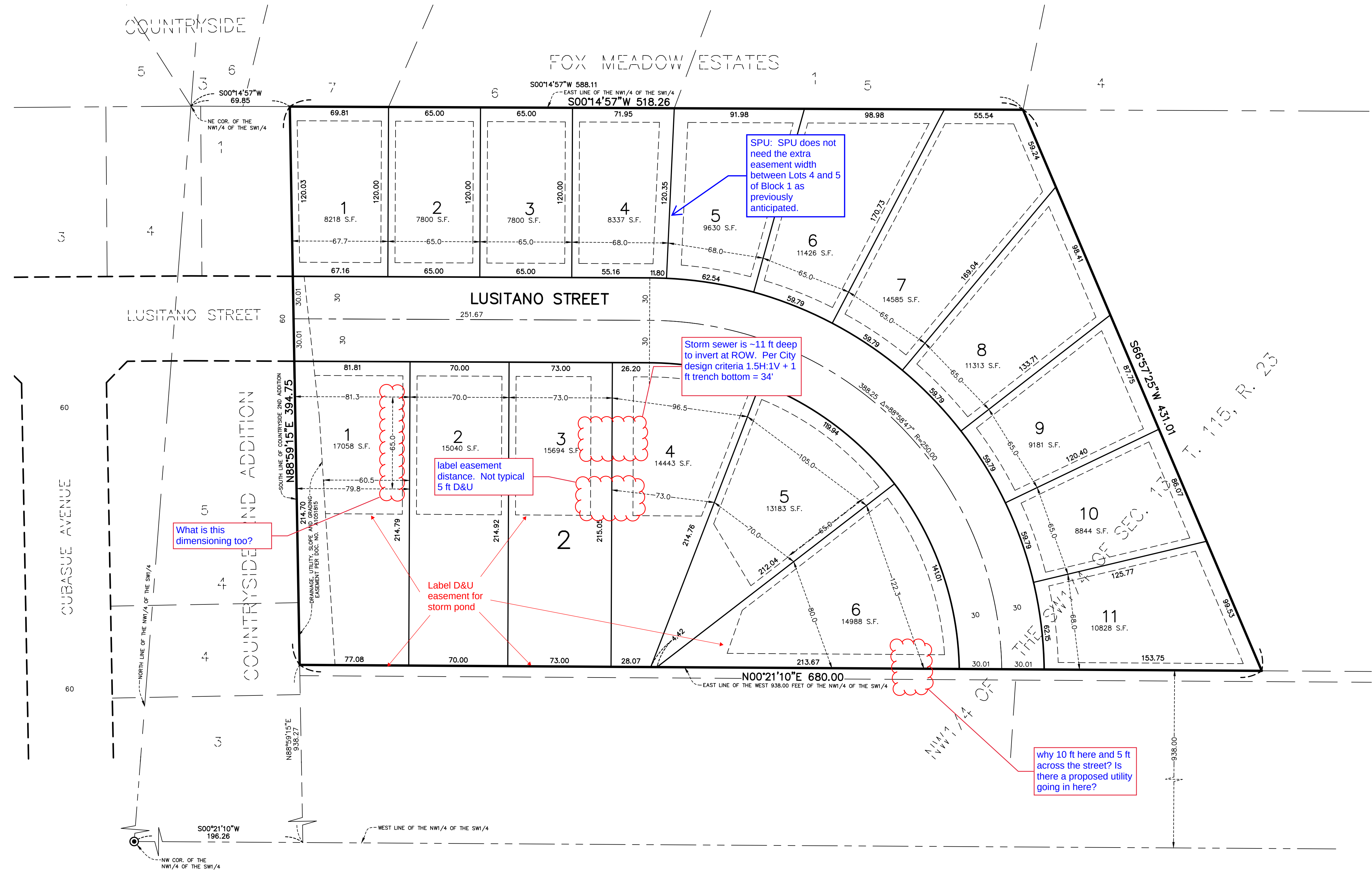
- #1 TNH, SW CORNER OF PINIA ST AND
DANUBE AVE INTERSECTION
ELEV=871.83
#2 TNH, SW QUAD OF LUSITANO ST AND
DANUBE AVE INTERSECTION
ELEV=860.04

James R. Hill, Inc.
PLANNERS / ENGINEERS / SURVEYORS
2999 W. Cty. Rd. 42, Suite 100, Burnsville, MN 55306
PHONE: (952)890-6044 FAX: (952)890-6244

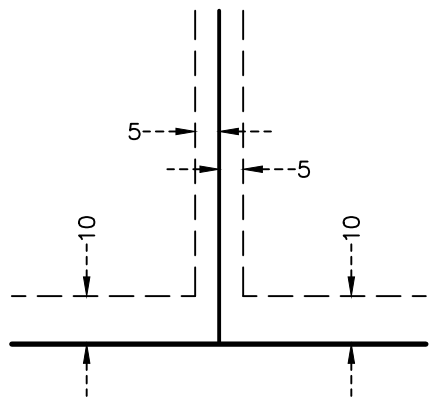
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
PRELIMINARY
Date: _____ Reg. No. _____

COUNTRYSIDE 3RD ADDITION
SHAKOPEE, MINNESOTA
TITLE SHEET
FOR
DONNAY HOMES, INC.
9655 63RD AVENUE NORTH, MAPLE GROVE, MN 55369

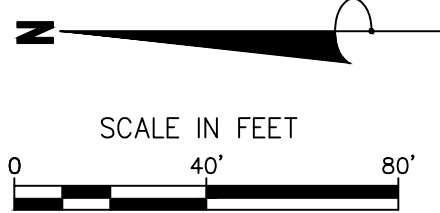
DRAWN BY EPF/JSO
DATE 11/06/23
REVISIONS 12/28/2023 CITY COMMENTS
CAD FILE 24119TS
PROJECT NO. 24119
1.0



DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS:



DRAINAGE AND UTILITY EASEMENTS BEING 5 FEET IN WIDTH, UNLESS OTHERWISE INDICATED, ADJOINING LOT LINES, AND BEING 10 FEET IN WIDTH, UNLESS OTHERWISE INDICATED, ADJOINING RIGHT OF WAY LINES, AS SHOWN ON THIS PLAT.



PROPERTY DESCRIPTION

That part of the Northwest Quarter of the Southwest Quarter of Section 13, Township 115, Range 23, Scott County, Minnesota that lies east or the West 938.00 feet thereof and South of a line described as follows:
Beginning at a point on the east line of said Northwest Quarter of the Southwest Quarter distant 69.85 feet South from the Northeast corner of said Northwest Quarter of the Southwest Quarter; thence west to a point on the west line of said Northwest Quarter of the Southwest Quarter distant 196.26 feet south From the Northwest corner of said Northwest Quarter of the Southwest Quarter and said line there terminating.
And lying northerly of a line described as follows:
Commencing at the northeast corner of said Northwest Quarter of the Southwest Quarter; thence South 00 degrees 14 minutes 57 seconds West, assumed bearing, along the east line of said North Quarter a distance of 588.11 feet to the point of beginning of the line to be described; thence South 66 degrees 57 minutes 25 seconds West a distance of 431.01 feet to the east line of the west 938.00 feet of said Northwest Quarter of the Southwest Quarter and said line there terminating.

SITE DATA

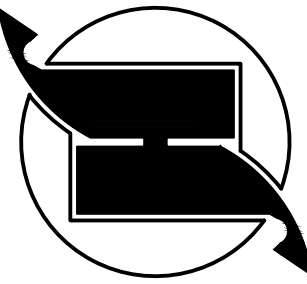
LOTS	17 LOTS
TOTAL SITE AREA	5.44 AC.
LOT AREA	4.56 AC.
RIGHT OF WAY AREA	0.88 AC.
GROSS DENSITY	3.13 LOTS/AC
NET DENSITY	3.73 LOTS/AC

EXISTING/PROPOSED ZONING IS R1B - URBAN RESIDENTIAL

MINIMUM LOT WIDTH	60 FEET
MINIMUM LOT DEPTH	100 FEET
MAXIMUM IMPERVIOUS SURFACE	50%

MINIMUM BUILDING SETBACKS	
FRONT	25 FEET
SIDE YARD (INTERIOR)	7.5 FEET
SIDE YARD (STREET)	15 FEET
REAR	30 FEET

James R. Hill, Inc.
PLANNERS / ENGINEERS / SURVEYORS
2909 WEST C.R. 42, SUITE 100, BURNSVILLE, MN 55306
PHONE: 952.890.6044 www.jrhinc.com



KANGAS PARCEL
SHAKOPEE, MINNESOTA
PRELIMINARY PLAT
FOR
DONNAY HOMES, INC.
9655 63RD AVENUE NORTH, MAPLE GROVE, MN 55369

DRAWN BY
PLM

DATE
10/23/2023

REVISIONS
A. 12/12/23: Block 1 layout

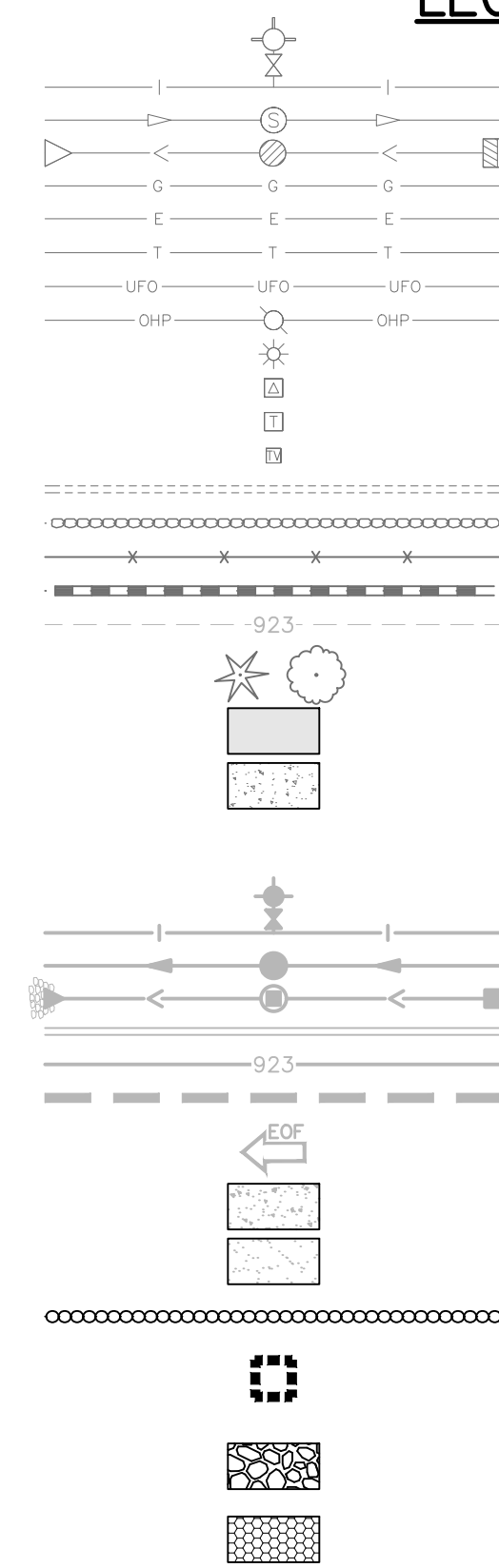
CAD FILE
24119pp.dwg

PROJECT NO.
24119-00

2.0

1. RESPREAD A MIN. 6" TOPSOIL ON ALL AREAS HAVING FINAL STABILIZATION OF SEED & MULCH, TURF AND LANDSCAPING.

LEGEND



EXISTING WATERMAIN
EXISTING SANITARY SEWER
EXISTING STORM SEWER
EXISTING UNDERGROUND GAS
EXISTING UNDERGROUND ELECTRIC
EXISTING UNDERGROUND TELEPHONE
EXISTING UNDERGROUND FIBER OPTIC
EXISTING OVERHEAD POWER LINE
EXISTING LIGHT POLE
EXISTING TRANSFORMER
EXISTING TELEPHONE PEDESTAL
EXISTING TV PEDESTAL
EXISTING CURB & GUTTER
EXISTING RETAINING WALL
EXISTING FENCE
EXISTING RAILROAD
EXISTING CONTOUR

EXISTING TREELINE/TREES

EXISTING ASPHALT

EXISTING CONCRETE

PROPOSED WATERMAIN
PROPOSED SANITARY SEWER
PROPOSED STORM SEWER
PROPOSED CURB & GUTTER
PROPOSED CONTOUR
PROPOSED GRADING LIMITS
PROPOSED EMERGENCY OVERFLOW
PROPOSED CONCRETE
PROPOSED CLASS 5 AGGREGATE SURFACE
PROPOSED SILT FENCE
PROPOSED WIMCO
POST STORM SEWER CONSTRUCTION
PROPOSED STABILIZED CONSTRUCTION EXIT
PROPOSED SEED & MULCH MIX
NATIVE PONDS & WET AREAS MnDOT 33-261

Silt Fence should stay within property and/or easement limits.
Note that silt fence is offset for clarity

Prior to construction on the adjacent property an easement agreement shall be recorded with the County and submitted to City

Include this linetype in legend. It appears to be a temp easement looking at the sheet ahead.

An easement agreement will be needed for construction of turn around over this parcel

Hatch appears to be shifted

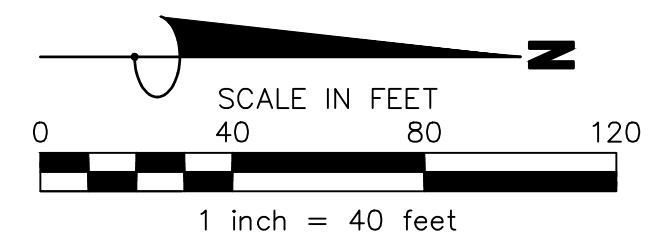
Prior to construction on the adjacent property an easement agreement shall be recorded with the County

— INSTALL INLET PROTECTION (TYP)

MAINTAIN SILT FENCE (TYP.)



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



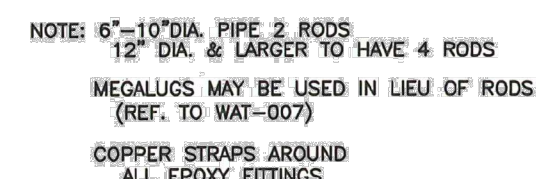
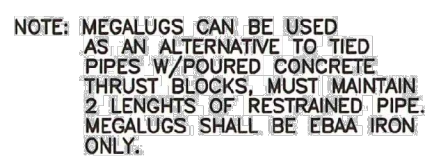
James R. Hill, Inc.
PLANNERS / ENGINEERS / SURVEYORS
2999 W. CTV. RD. 42, SUITE 100, BURNSVILLE, MN 55306
PHONE: (952)890-6044 FAX: (952)890-6244

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Date: _____ Reg. No. _____

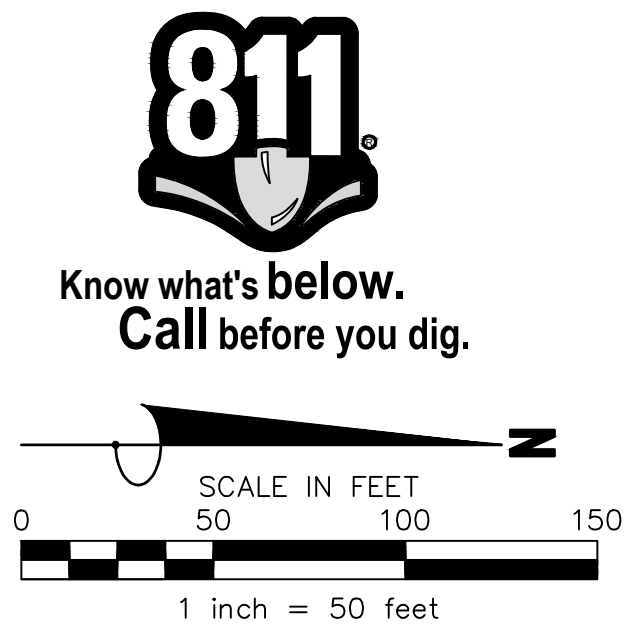
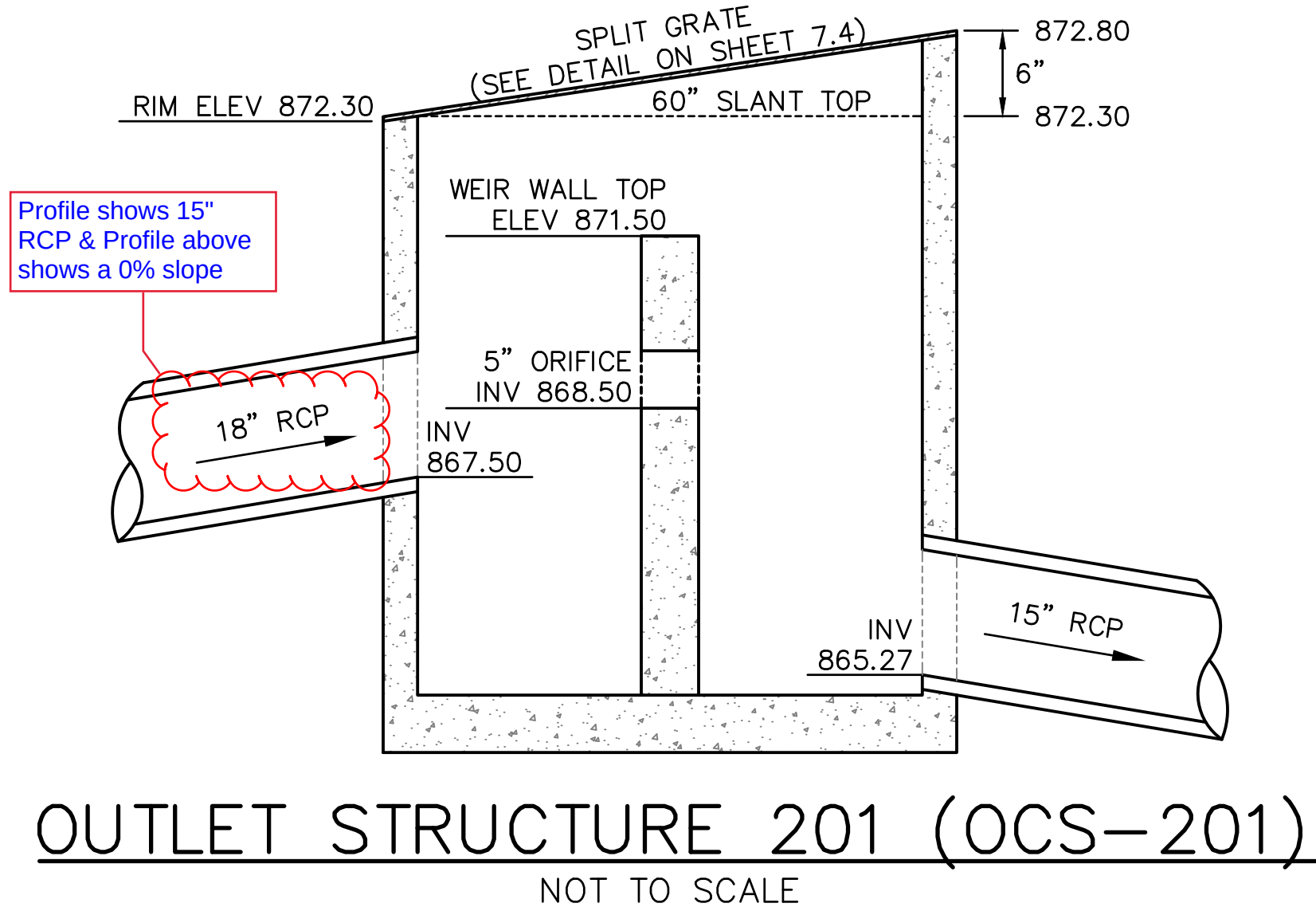
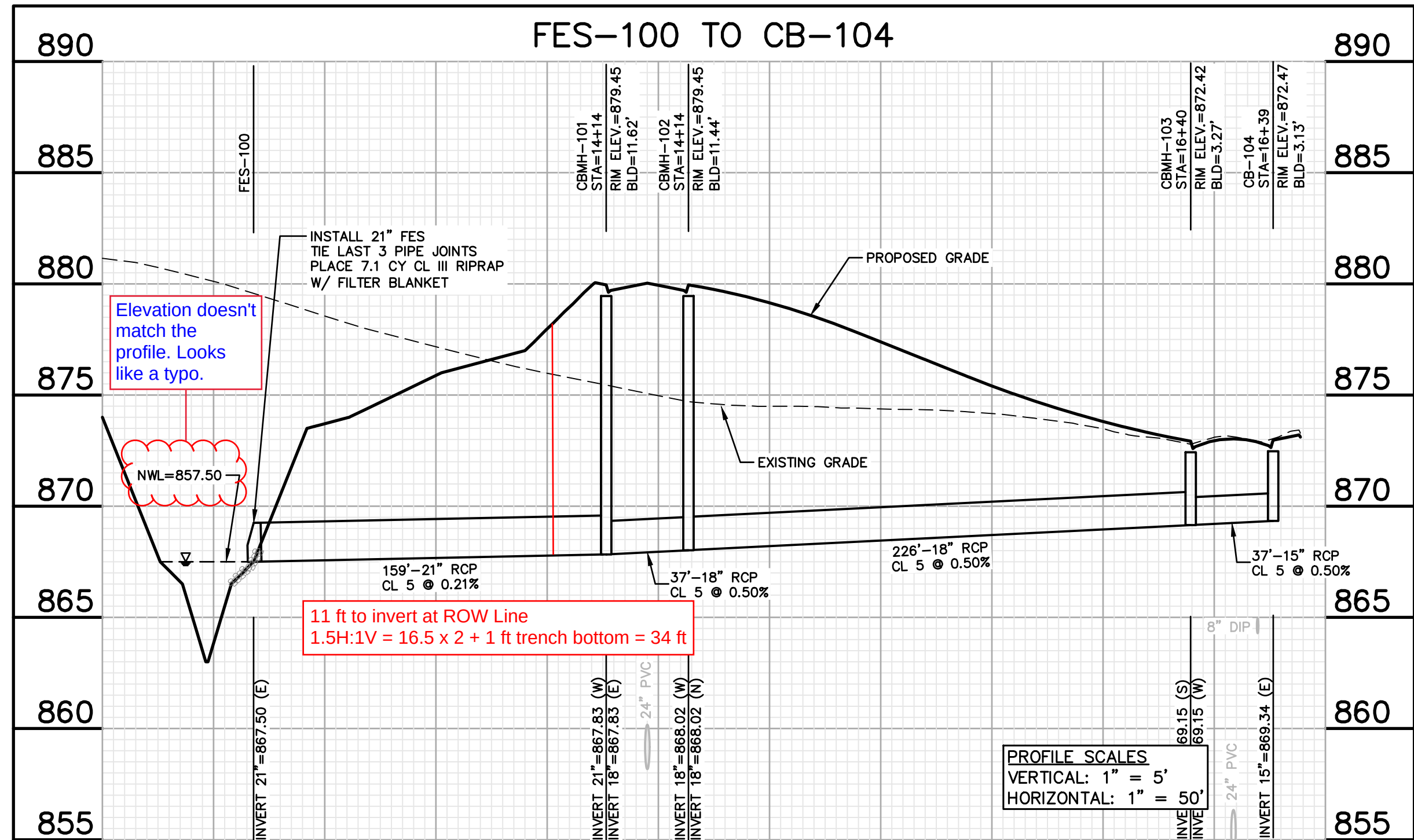
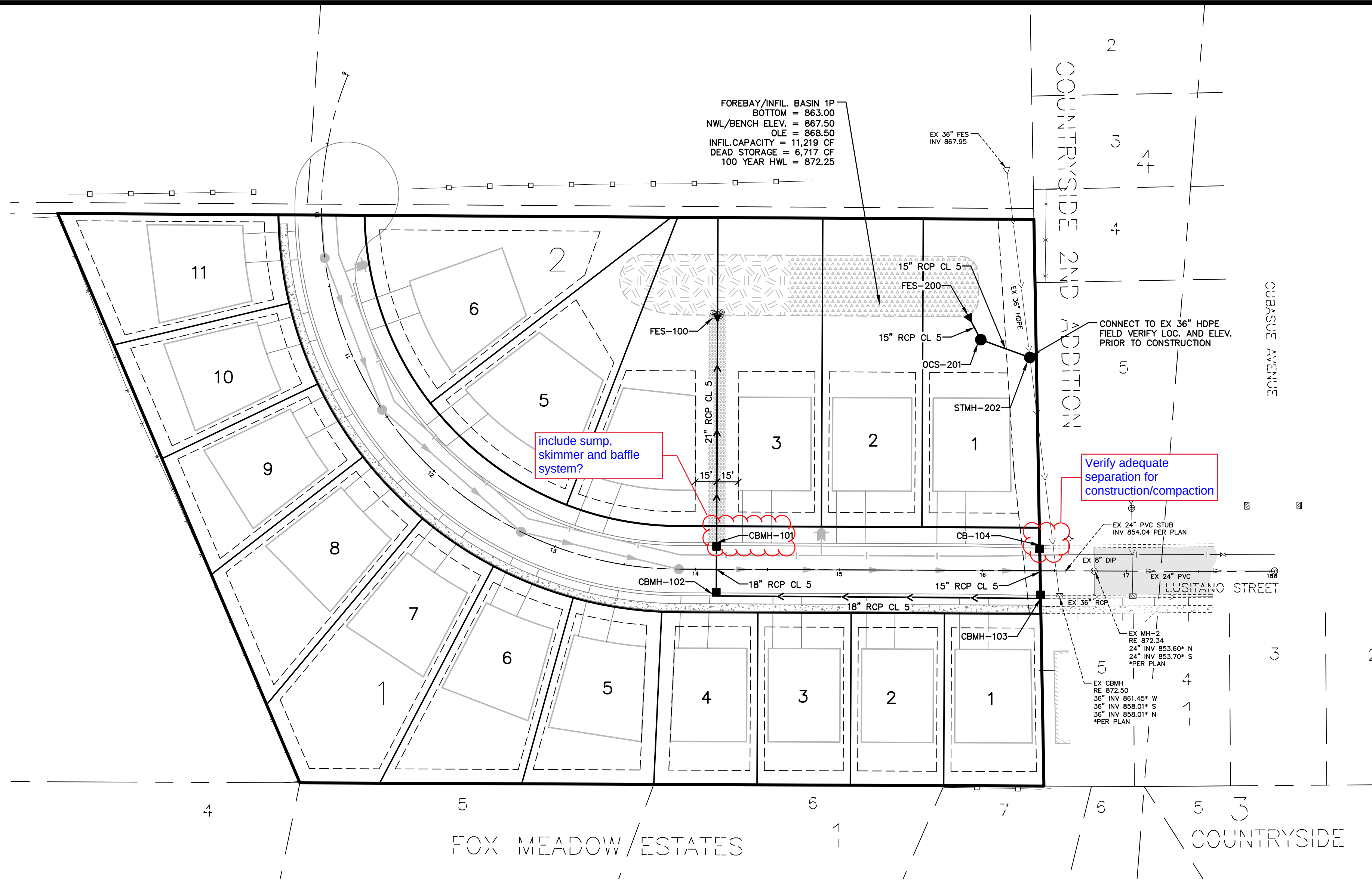
COUNTRYSIDE 3RD ADDITION
SHAKOPEE, MINNESOTA
EROSION & SEDIMENT CONTROL PLAN
POST-CONSTRUCTION
FOR
DONNAY HOMES, INC.
9655 63RD AVENUE NORTH, MAPLE GROVE, MN 55369

DRAWN BY JSO
DATE 11/06/23
REVISIONS
12/28/2023 CITY COMMENTS
CAD FILE 24119ERC
PROJECT NO. 24119
3.1

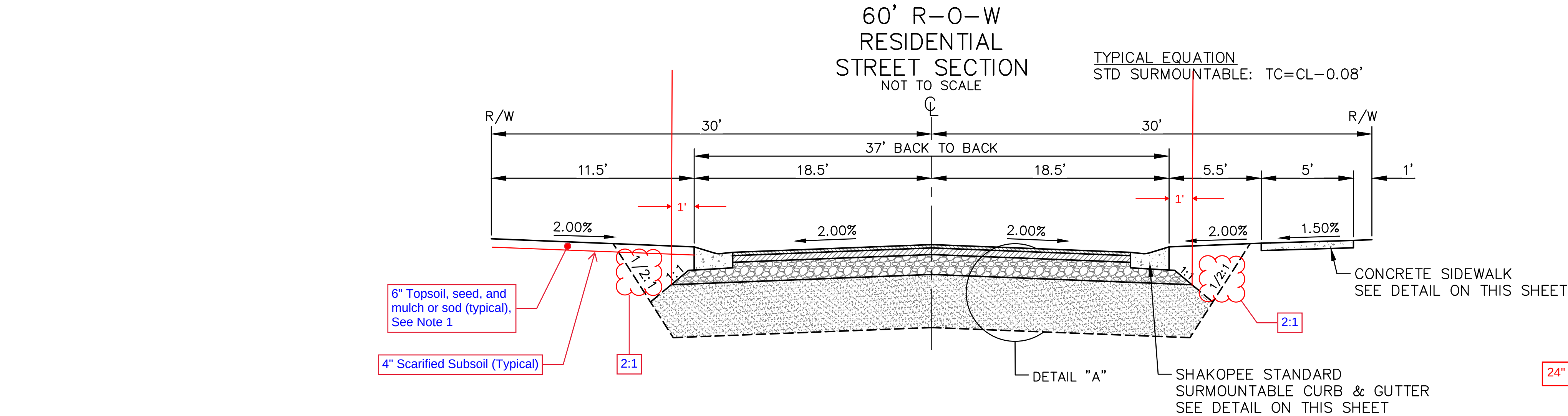


7.6

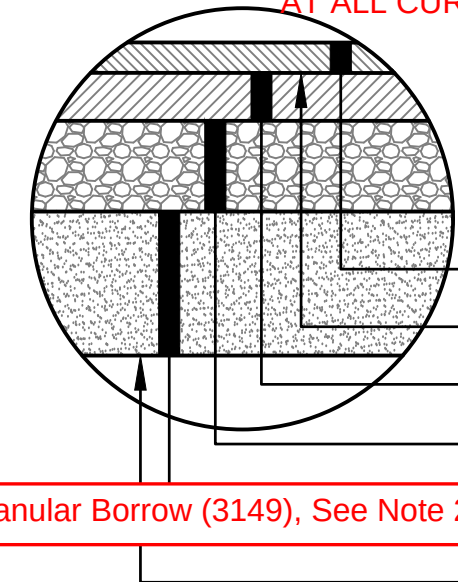
STORM SEWER SCHEDULE				
STRUCTURE NO.	TYPE	BUILD HEIGHT (FEET)	STRUCTURE SIZE	NEENAH CASTING
CBMH-101	CATCH BASIN MANHOLE	11.62	48"ø	R-3067V
CBMH-102	CATCH BASIN MANHOLE	11.44	48"ø	R-3067V
CBMH-103	CATCH BASIN MANHOLE	3.27	48"ø	R-3067V
CB-104	CATCH BASIN	3.13	24"x36"	R-3067V
OCS-201	OUTLET CONTROL STRUCTURE	7.03	60"ø	SEE DETAIL
STMH-202	STORM MANHOLE	7.25	60"ø	R-1642



F:\Civil 3D Projects\24119\PRE-PLAT PLANS\24119D.dwg -- 12/28/2023 09:53AM

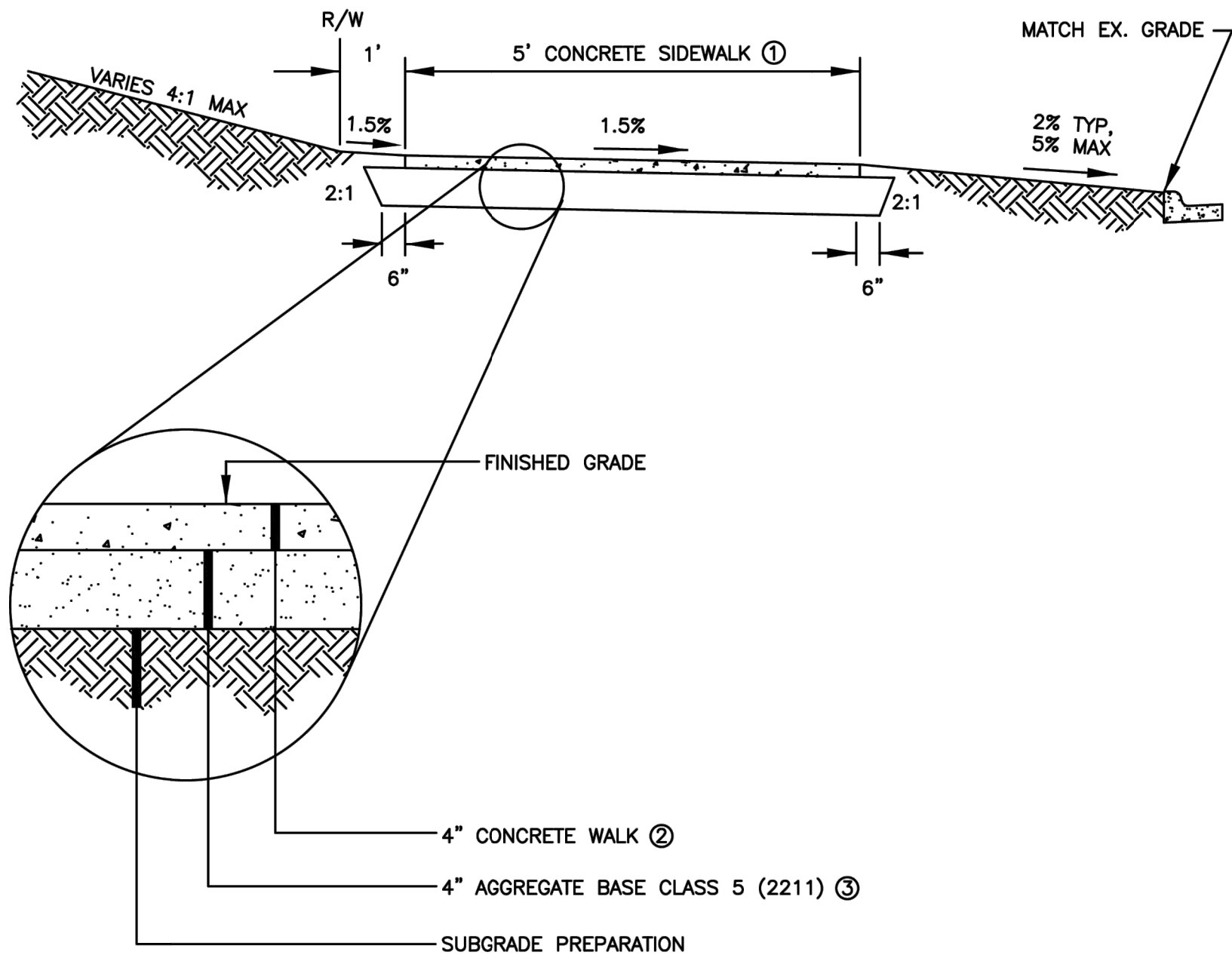
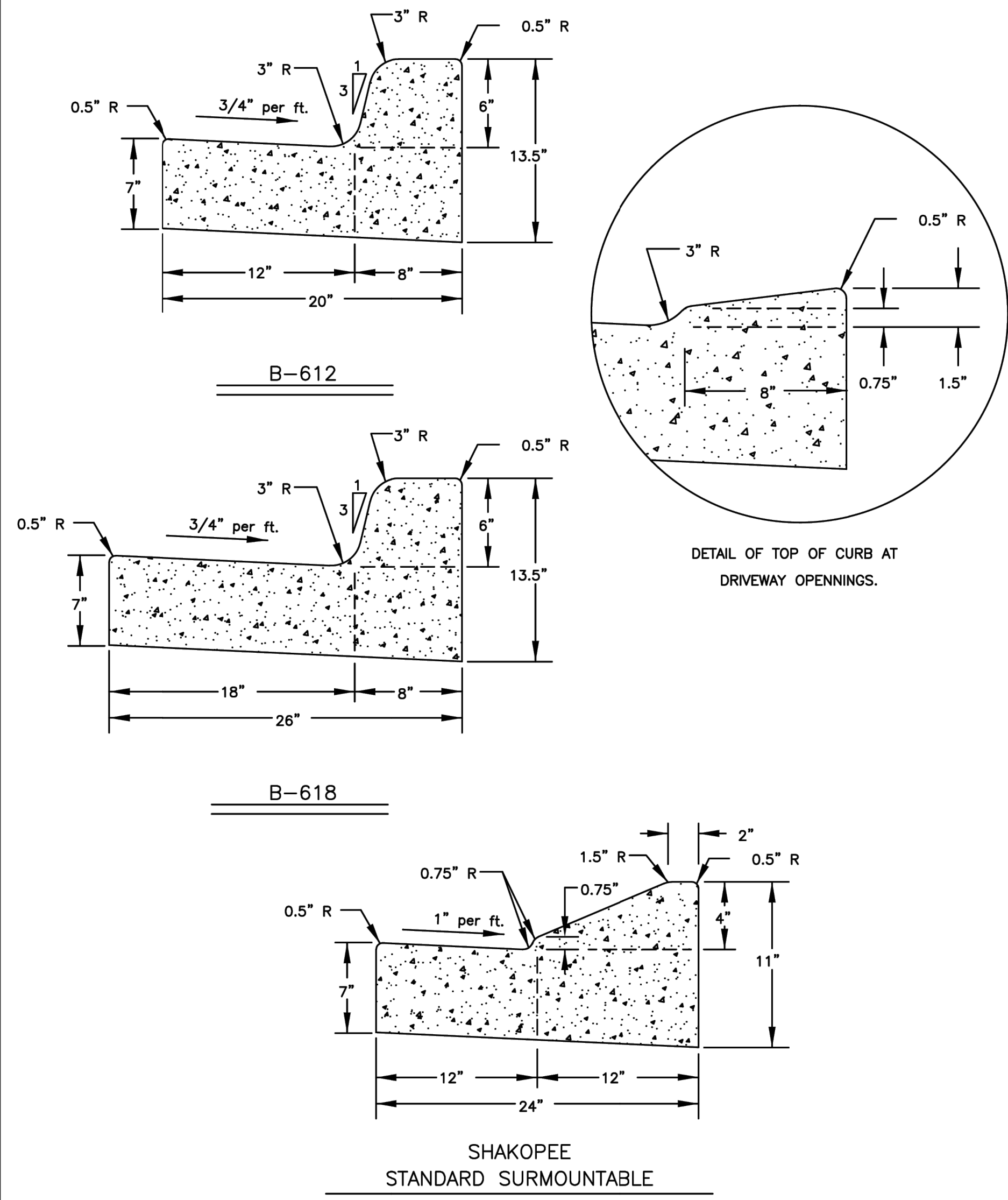


- Add Notes:
1. NOT LESS THEN 2 ROLLS OF SOD TO BE PLACED BEHIND CURB. (36" MINIMUM)
 2. THE STANDARD SELECT GRANULAR SECTION IS 24". THE USE OF GEOTEXTILE FABRIC AND ADJUSTMENTS TO THE SELECT GRANULAR SECTION IS BASED ON EXISTING SOIL CONDITIONS AS DETERMINED BY THE CITY ENGINEER.
 3. STREET WIDTH TO BE DETERMINED BY THE CITY ENGINEER. STREETS MUST BE PAVED IN NO MORE THAN TWO PASSES.
 4. 4" PERFORATED PIPE INSTALLED AT ALL LOW POINTS, MINIMUM 50' EACH WAY. INSTALLED WHERE CLAY SOILS ARE ENCOUNTERED IN THE ROADWAY SUBGRADE AS DIRECTED BY THE ENGINEER.
 5. B618 CONCRETE CURB AND GUTTER IS REQUIRED AT ALL CURB RADII AND CATCH BASINS.



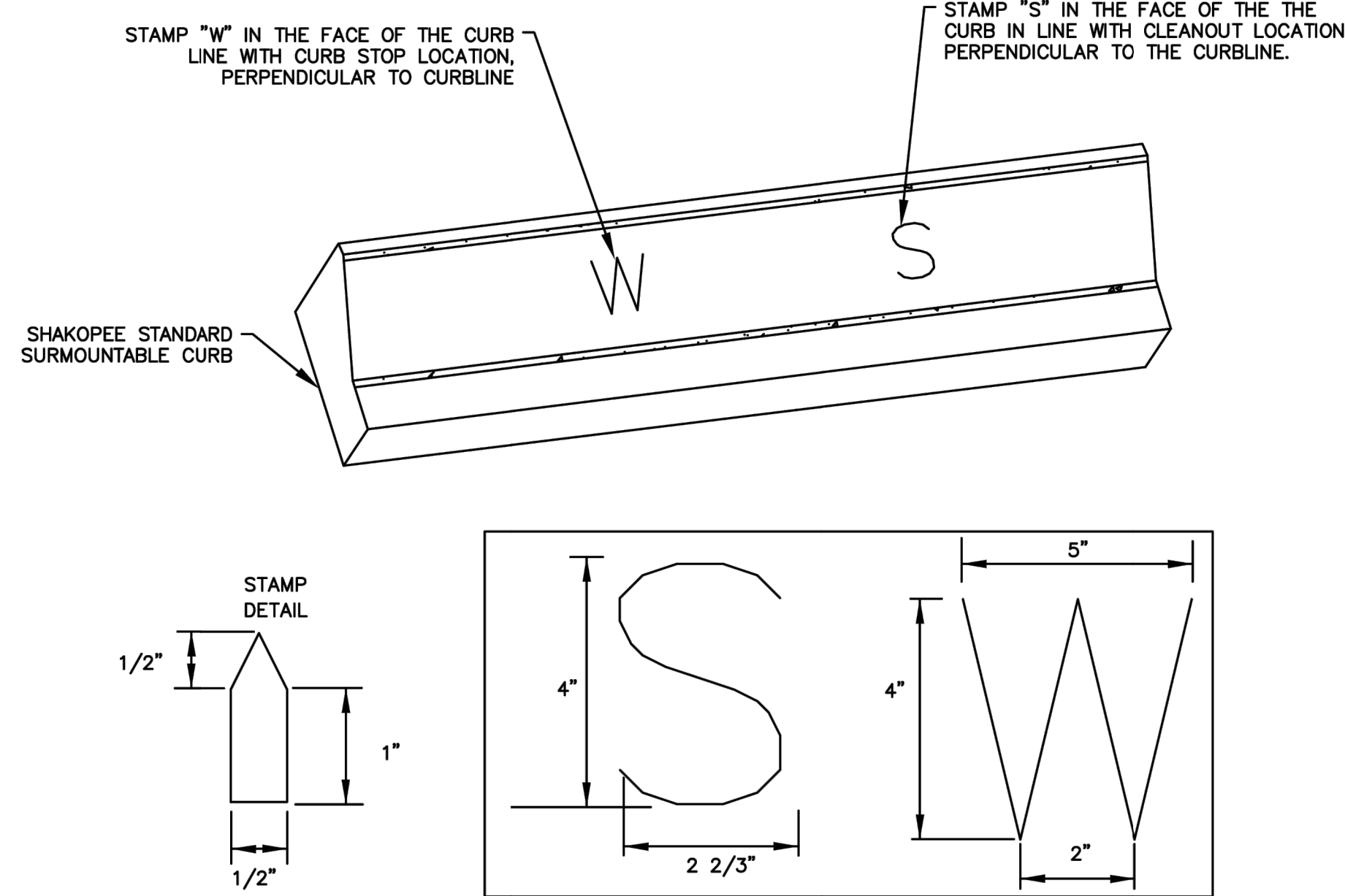
DETAIL "A"

- 2" - SPWEA240C BITUMINOUS WEARING COURSE
BITUMINOUS TACK COAT, MnDOT 2357
2" - SPWEA230C BITUMINOUS WEARING COURSE
8" - CLASS 5 AGGREGATE BASE, MnDOT 2211,
24" Select Granular Borrow (3149), See Note 2.
~~SELECT GRANULAR BORROW, MnDOT 3149
AS DIRECTED BY GEOTECHNICAL ENGINEER~~
SCARIFY AND COMPACT SUBGRADE, MnDOT 2112



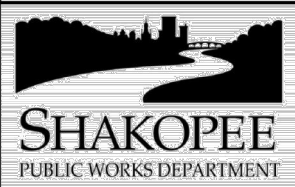
SIDEWALK DIMENSIONS:

- ① WIDTH - 5' (NEW) OR MATCH EXISTING (SPOT REPAIRS)
- ② DEPTH - 4" TYPICAL, 6" AT RESIDENTIAL DRIVEWAYS
6" IN NEW DEVELOPMENTS WHERE SURMOUNTABLE CURB IS CONSTRUCTED AND RESIDENTIAL DRIVEWAYS COULD BE CONSTRUCTED.
8" AT COMMERCIAL DRIVEWAYS
- ③ BASE DEPTH - 12" GRANULAR BORROW OR 4" OF CLASS 5 AGGREGATE
- ④ CONTRACTION JOINTS - 5' INTERVALS (APPROX.)
- ⑤ EXPANSION JOINTS - 100' INTERVALS (MAX.)



NOTE:

1. ALL NEW AND EXISTING WATER AND SEWER SERVICE LOCATIONS SHALL BE MARKED IN CURB AS SHOW. STAMPING OF SERVICE LOCATIONS SHALL BE CONSIDER INCIDENTAL TO THE PRICE OF CURB.
2. W'S AND S'S NOT PLACED BY SPECIFIED STAMP WILL NOT BE ACCEPTED AND THAT SECTION OF CURB MUST BE REMOVED AND REPLACED



CONCRETE CURB & GUTTER FOR STREETS

Steve L. Rilling
PUBLIC WORKS DIRECTOR/CITY ENGINEER

APPROVED: 01/2023
REVISED: 03/2020

DETAIL NO:
1003



TYPICAL SIDEWALK

Steve L. Rilling
PUBLIC WORKS DIRECTOR/CITY ENGINEER

APPROVED: 01/2023
REVISED: 05/2021

DETAIL NO:
4001



SANITARY SEWER AND WATER SERVICE CURB STAMP

Steve L. Rilling
PUBLIC WORKS DIRECTOR/CITY ENGINEER

APPROVED: 01/2023
REVISED: 03/2020

DETAIL NO:
1004

James R. Hill, Inc.
PLANNERS / ENGINEERS / SURVEYORS
2999 W. Cty. Rd. 42, Suite 100, Burnsville, MN 55306
PHONE: (952)890-6044 FAX: (952)890-6244

I hereby certify that this plan, specification or report 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.

PRELIMINARY

Date: _____ Reg. No. _____

COUNTRYSIDE 3RD ADDITION
SHAKOPEE, MINNESOTA
CONSTRUCTION DETAILS
FOR
DONNAY HOMES, INC.
9855 63RD AVENUE NORTH, MAPLE GROVE, MN 55369

DRAWN BY
JSO

DATE
11/06/23

REVISIONS

NO.	DATE	DESCRIPTION
12/28/2023	CITY COMMENTS	

CAD FILE
24119D

PROJECT NO.
24119

7.1



James R. Hill, Inc.
PLANNERS / ENGINEERS / SURVEYORS
2999 W. CTY. RD. 42, SUITE 100, BURNSVILLE, MN 55306
PHONE: (952)890-6044 FAX: (952)890-6244

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Engineer under the laws of the
State of Minnesota.

COUNTRYSIDE 3RD ADDITION
SHAKOPEE, MINNESOTA

CONSTRUCTION DETAILS

FOR
DONNAY HOMES, INC.
ONE GOOD NEWYORK AVENUE, SUITE 500
MINNEAPOLIS, MN 55402

DRAWN BY
JSO

DATE
11/06/23

REVISIONS

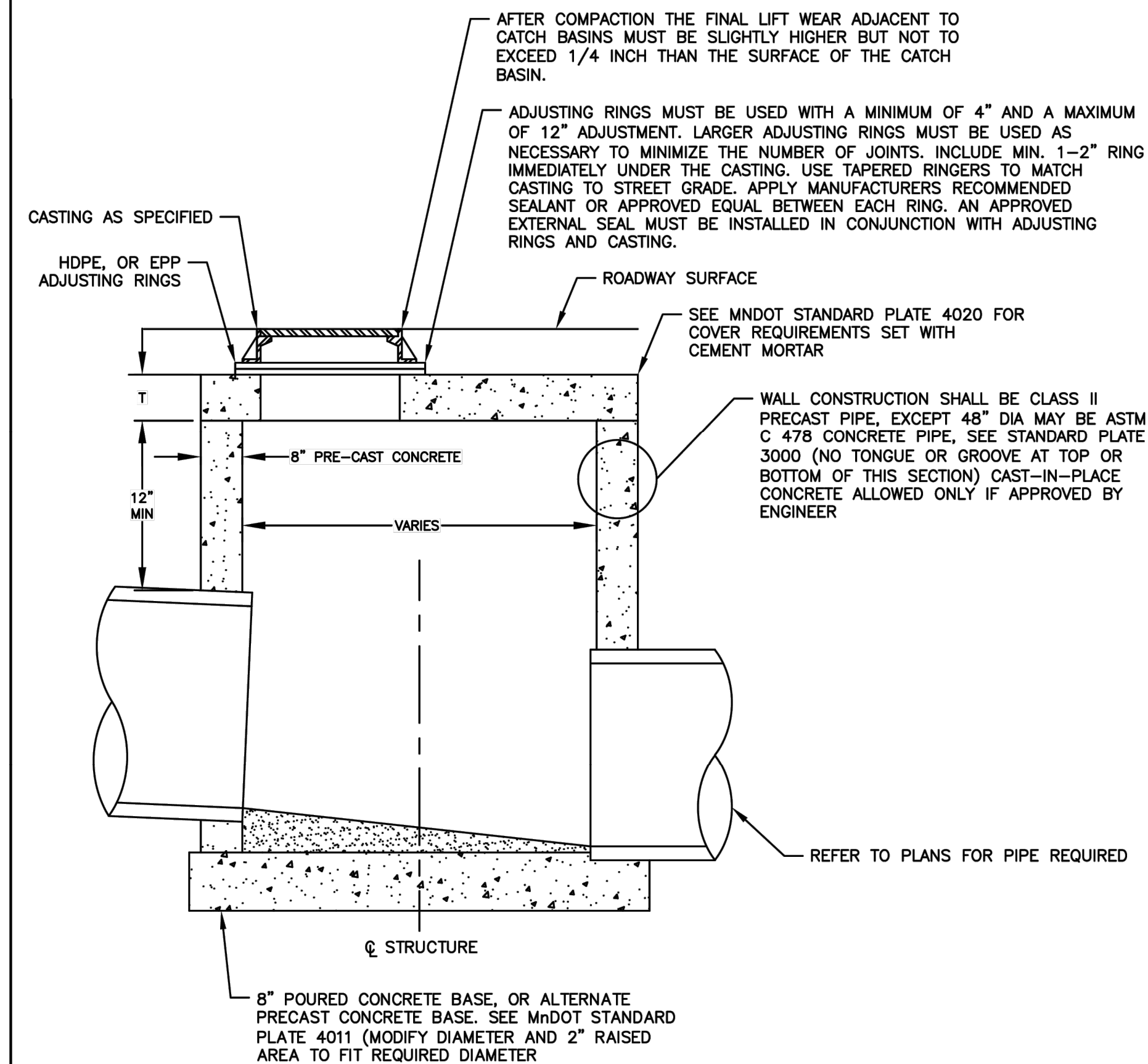
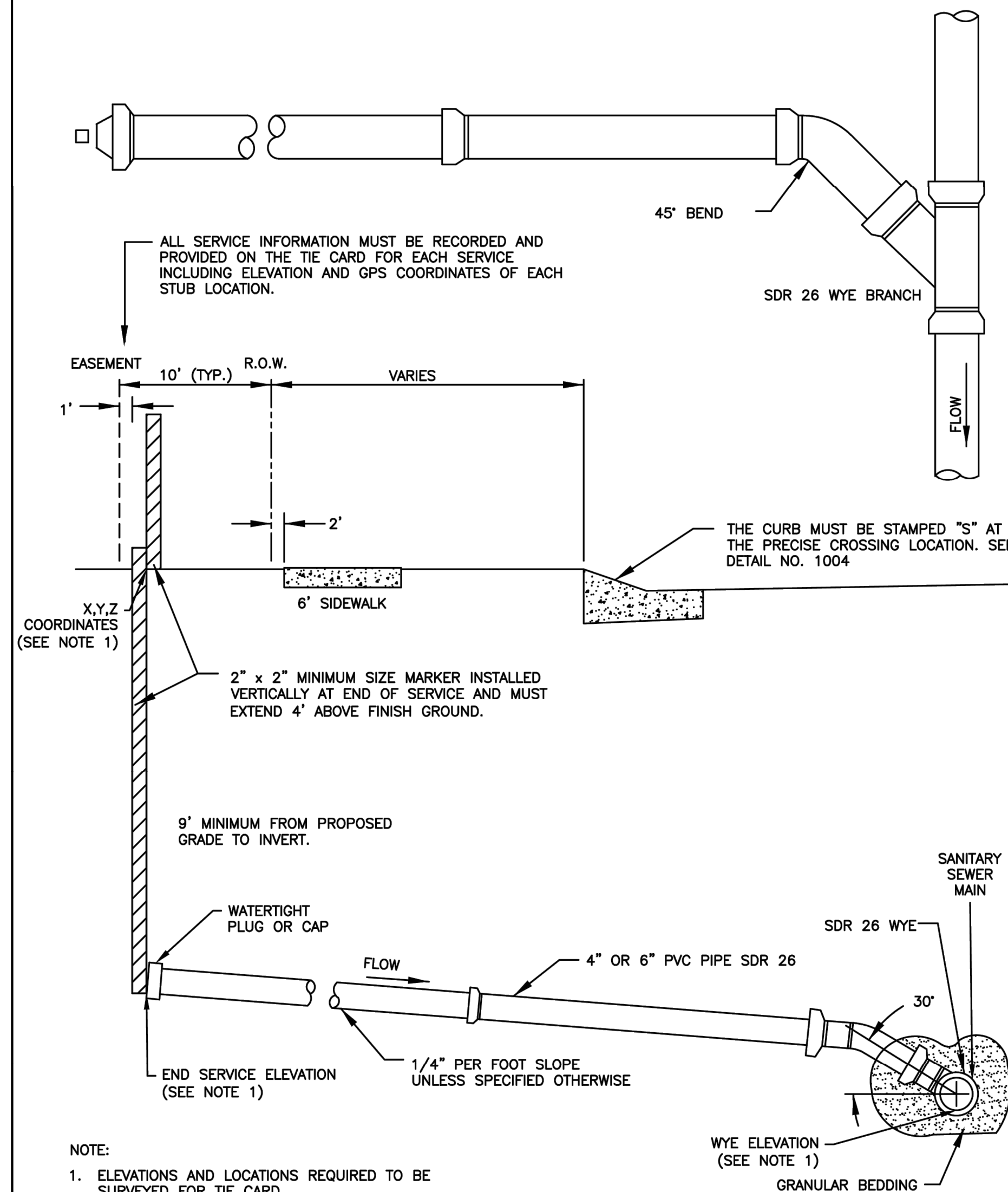
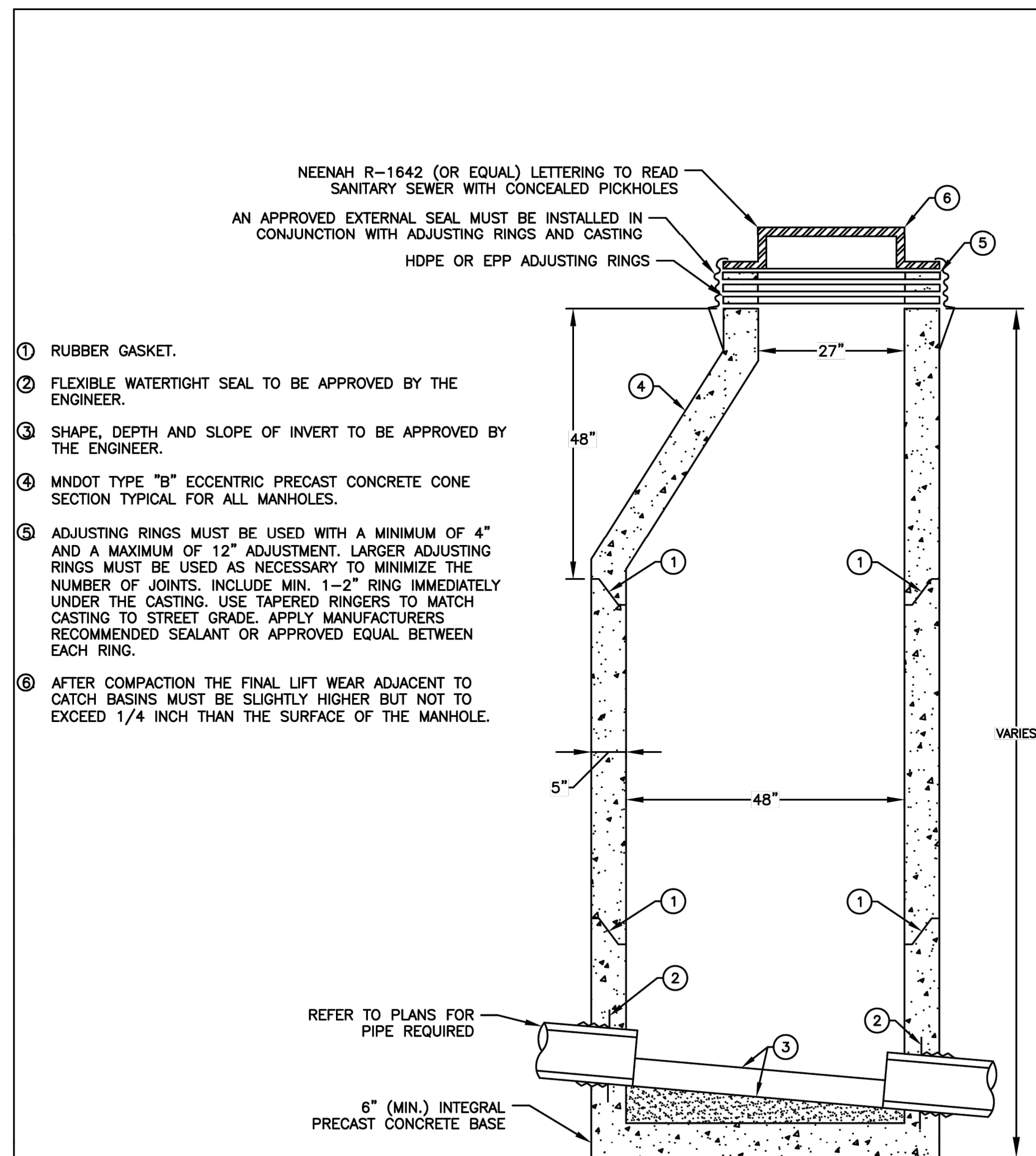
12/28/2023 CITY COMMENTS

CAD FILE
24119D

PROJECT NO.

7.2

Include City typical details:
residential driveway detail - 4003
residential driveway w/ sidewalk detail - 4004
Mailbox - 4008
Joint trench for private utilities (gas roadside) - 5009
Sanitary sewer riser - 2004 (if sanitary sewer is deeper than 15ft)



NOTES:

1. REFER TO STANDARD PLANS FOR HEIGHT AND DIAMETER REQUIRED.
2. REINFORCEMENT AS PER SPEC. 3301, GRADE 60.
3. DOGHOUSES SHALL BE GROUTED ON BOTH THE OUTSIDE AND INSIDE AND HAVE A MINIMUM OF 12" THICK CONCRETE COLLAR.



STANDARD SANITARY MANHOLE

Steven L. Lillsham
PUBLIC WORKS DIRECTOR/CITY

APPROVED: 01/2023
REVISED: 01/2023

DETAIL NO:
2001



SANITARY SEWER SERVICE

Steven L. Lillshang
PUBLIC WORKS DIRECTOR/CITY ENGINEER

APPROVED: 01/2023
REVISED: 12/2021

DETAIL NO.
2003

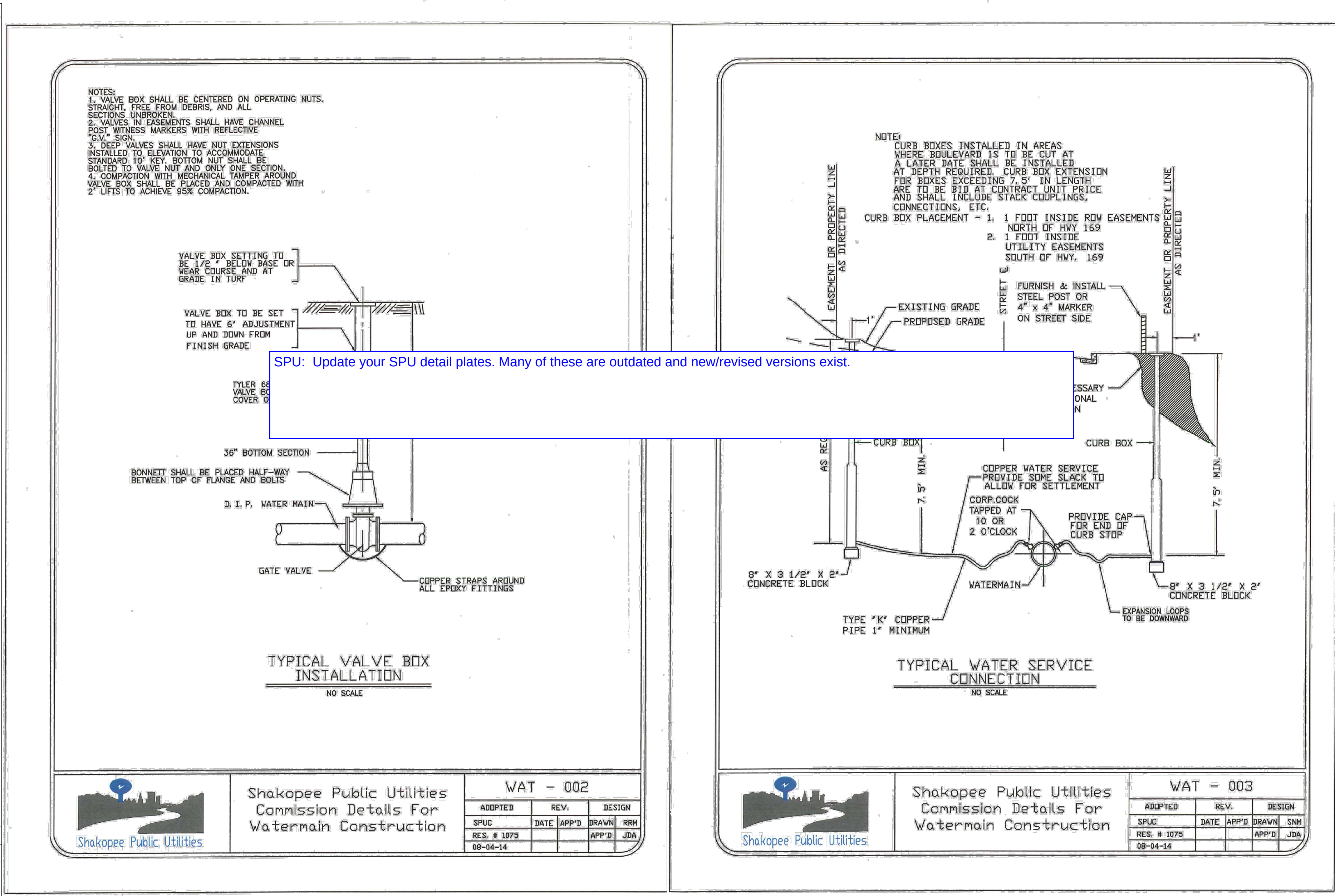
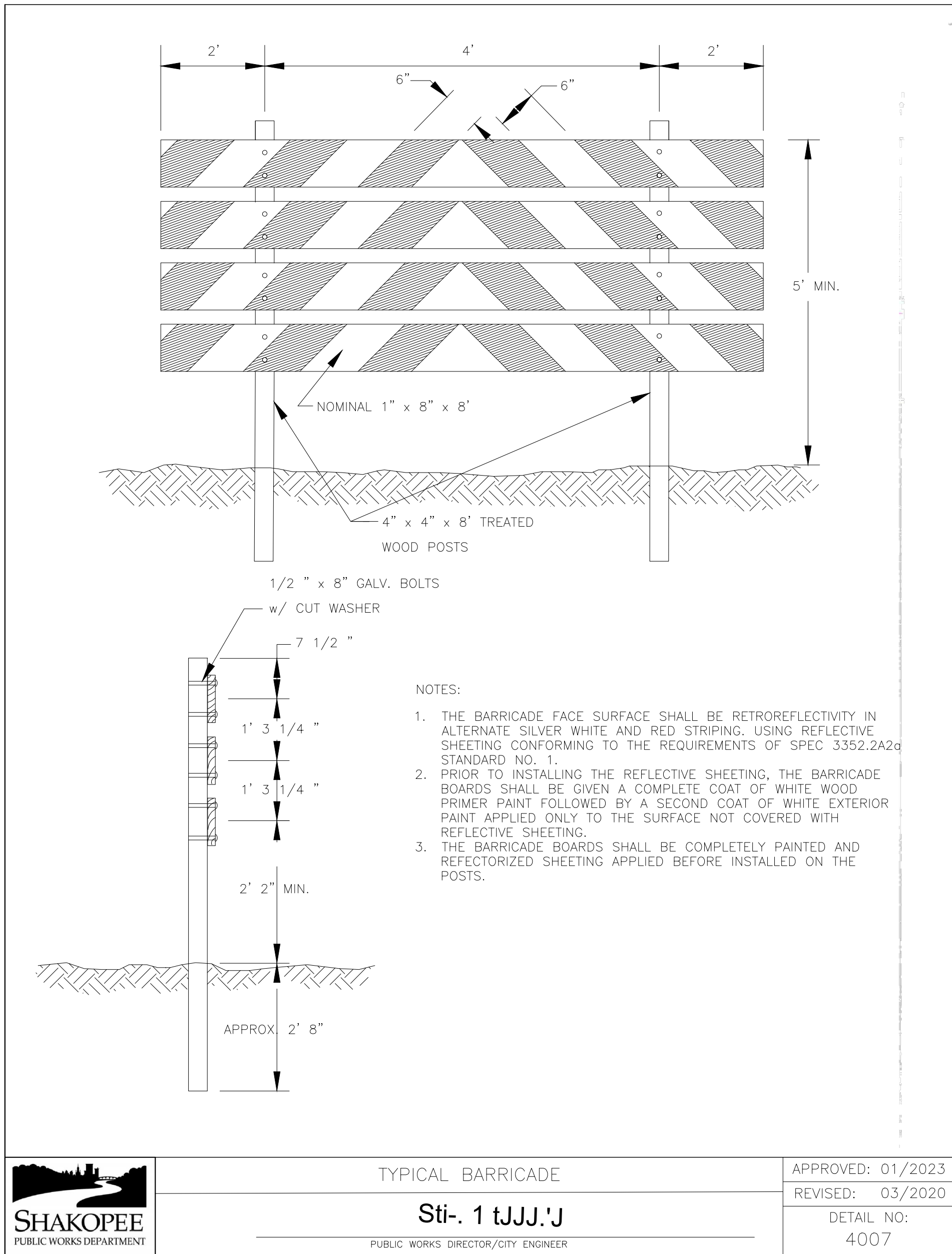


STANDARD MANHOLE FOR STORM SEWER

Steven L. Lillingaug
PUBLIC WORKS DIRECTOR/CITY ENGINEER

APPROVED: 01/2023
REVISED: 01/2023

DETAIL NO:
3001



I hereby certify that this plan, specification or report 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.

PRELIMINARY

Date: _____ Reg. No. _____

COUNTRYSIDE 3RD ADDITION
SHAKOPEE, MINNESOTA

CONSTRUCTION DETAILS

FOR
DONNAY HOMES, INC.
9655 63RD AVENUE NORTH, MAPLE GROVE, MN 55369

DRAWN BY
JSO

DATE
11/06/23

REVISIONS

NO.	DATE	DESCRIPTION
1	12/28/2023	QTY COMMENTS

CAD FILE
24119D

PROJECT NO.
24119

7.5

James R. Hill, Inc.
PLANNERS / ENGINEERS / SURVEYORS

2999 W. Cty. Rd. 42, Suite 100, Burnsville, MN 55306

PHONE: (952)890-6044 FAX: (952)890-6244