

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS PRIOR TO THE START OF CONSTRUCTION.
2. ALL CONSTRUCTION AND POST CONSTRUCTION PARKING SHALL BE ON-SITE, NO ON-STREET PARKING/LOADING/UNLOADING ALLOWED.
3. ALL PUBLIC SIDEWALKS/TRAILS SHALL NOT BE OBSTRUCTED.
4. STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT OF WAY.
5. REFER TO EROSION CONTROL PLAN. ALL EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO UTILITY CONSTRUCTION.
6. ALL PROJECT RELATED UTILITIES WILL BE PRIVATELY OWNED.
7. NOTIFY GOPHER STATE ONE CALL 48 HOURS IN ADVANCE OF ANY CONSTRUCTION TO VERIFY LOCATION OF ALL PRIVATE UTILITIES.
8. PROVIDE TEMPORARY TRAFFIC CONTROL IN COMPLIANCE WITH MNDOT "TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS-FIELD MANUAL" LATEST REVISION, FOR ANY CONSTRUCTION WITHIN PUBLIC R.O.W.

UTILITY NOTES:

1. EXISTING UTILITIES, SERVICE LOCATIONS AND ELEVATIONS SHALL BE VERIFIED BY CONTRACTOR IN FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES TO PLANS SHALL BE IMMEDIATELY DISCUSSED WITH OWNER AND ENGINEER PRIOR TO COMMENCING ON PROPOSED WORK.
2. MAINTAIN A MIN 18" VERTICAL SEPARATION AT ALL PIPE CROSSINGS.
3. PROVIDE POLYSTYRENE (4" THICK) INSULATION FOR ALL WATERMAIN AND STORM SEWER CROSSINGS WHERE VERTICAL OR HORIZONTAL SEPARATION IS LESS THAN 36".
4. CONTRACTOR TO PROVIDE COORDINATION FOR TELEPHONE, GAS, AND ELECTRIC SERVICE CONNECTION WITH THE RESPECTIVE SERVICE COMPANY.
5. WATERMAIN SHALL BE INSTALLED WITH MINIMUM 7.5' OF COVER.
6. ALL SANITARY MANHOLES SHALL BE MADE WITH WATER TIGHT MATERIALS TO PREVENT INFILTRATION.
7. WATERMAIN SHALL BE C-900 PVC AND CONTRACTOR SHALL USE 8 GA. TRACING WIRE LAID DIRECTLY UNDER ALL PIPE AND FITTINGS. TRACING WIRE SHALL BE CONNECT TO ALL VALVES AND HYDRANTS.
8. IF DEWATERING IS REQUIRED DURING CONSTRUCTION CONTRACTOR SHOULD CONSULT WITH EROSION CONTROL INSPECTOR AND ENGINEER TO DETERMINE APPROPRIATE METHOD.
9. ALL UTILITY INSTALLATIONS SHALL COMPLY WITH THE CITY OF BELLE PLAINE STANDARD DETAILS AND ENGINEERING GUIDELINES.
10. ALL UTILITY INSTALLATION BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH SOIL TESTING AGENCY REQUIREMENTS AND/OR SPECIFICATIONS. SOILS REPORT RECOMMENDATIONS INCLUDE PLACING BACKFILL AND FILL IN LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS. THE COMPACTED DENSITY OF THE FILL SHALL BE THE FOLLOWING PERCENTAGES OF STANDARD PROCTOR:
 - BELOW FOUNDATIONS = 100%
 - BELOW FLOOR SLABS = 98%
 - WITHIN 3 FEET OF PAVEMENT = 100%
 - BELOW 3 FEET OF PAVEMENT = 98%
 - BELOW LANDSCAPE SURFACES = 95%
 FILL SHOULD BE WITHIN 2 PERCENTAGE POINTS OF ITS OPTIMUM MOISTURE CONTENT; HOWEVER, CLAYEY FILL SHOULD BE PLACED WITHIN 3 PERCENTAGE POINTS ABOVE AND 1 PERCENT BELOW ITS OPTIMUM MOISTURE CONTENT.

LEGEND:

- PROPOSED STORM SEWER
- PROPOSED 4" DRAIN TILE
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- PROPOSED CATCH BASIN
- PROPOSED SANITARY/STORM MANHOLE
- PROPOSED HYDRANT
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE/CATCH BASIN
- EXISTING HYDRANT
- EXISTING GAS
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND TELEPHONE



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Mark Rausch

Registration Number 43480

Date 5/18/16

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.

Project For
Ridgeview Medical Center

Project No. 215-0150.0

Drawn By ELL

Checked By MPR

Date 5/18/16

RIDGEVIEW HEALTH CAMPUS

Therapy/Fitness Center & Assisted Living

FINAL PUD & PLAT SUBMITTAL 5/18/16

Project No. 215-0150.0

Drawn By ELL

Checked By MPR

Date 5/18/16

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Revisions

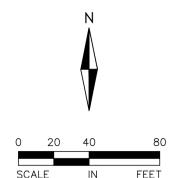
No.	Date	Description
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2	4-29-16	OL & ESMT ADD
3	5-18-16	FINAL PLAT & PUD SUB

UTILITY PLAN

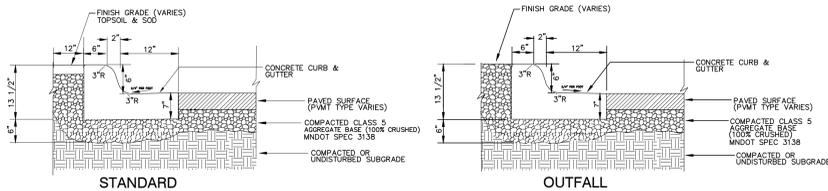
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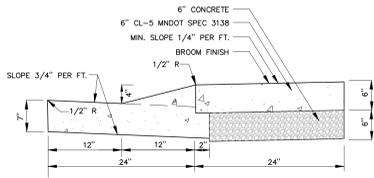


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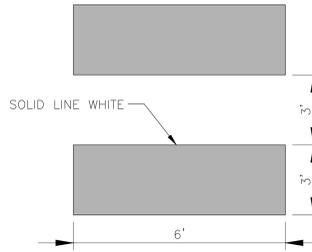
B612 CURB AND GUTTER

- NOTE: INSTALL CURB AND GUTTER JOINTS AS FOLLOWS:
- ALIGN JOINTS ACROSS ABUTTING SIDEWALKS, CURBS, AND PAVEMENTS PAYING PARTICULAR ATTENTION TO SPACING OF EXPANSION JOINTS AND SPECIAL SCORING PATTERNS INDICATED ON PLANS.
 - DIVIDE PANELS INTO NOMINALLY EQUAL AREAS WITH CONTRACTION JOINTS UNLESS INDICATED OTHERWISE.
 - SAW JOINTS ARE PERMITTED ONLY AS INDICATED ON THE PLANS OR TO INCREASE THE DEPTH OF TOOLED CONTRACTION JOINTS FOR THE CONTRACTOR'S CONVENIENCE.
- A. EXPANSION JOINTS**
- INSTALL TRANSVERSE JOINTS AT THE FOLLOWING NOMINAL INTERVALS.
 - SIDEWALKS AND MAINTENANCE STRIPS: 40 FEET
 - CURBS: 60 FEET, 5 FEET EACH SIDE OF CURB DRAIN INLETS, END OF CURVED SECTIONS
 - INSTALL LATERAL JOINTS AGAINST ABUTTING SURFACES WHERE CONCRETE IS CONFINED BETWEEN OR PENETRATED WITH RIGID STRUCTURES OR FURNISHINGS SUCH AS BUILDINGS AND STOOPS, PLANTERS, POLE SUPPORTS OR BASES, UTILITIES AND SLEEVES, THICKER PAVEMENT SECTIONS, ETC.
- B. CONTRACTION JOINTS**
- INSTALL JOINTS AT THE FOLLOWING NOMINAL INTERVALS.
 - SIDEWALKS AND MAINTENANCE STRIPS: 5 FEET
 - CURBS AND APRONS: 10 FEET, 6 FEET ON CURVED SECTIONS
 - TOOL OR SAW JOINTS TO 1/3 THE NOMINAL THICKNESS OF THE PAVEMENT SECTION OR CURB.

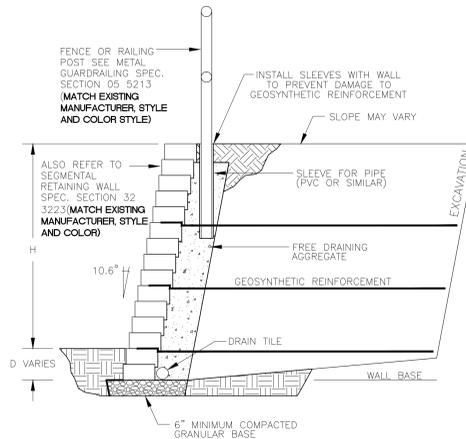


D412 C&G W/ CONCRETE MEDIAN

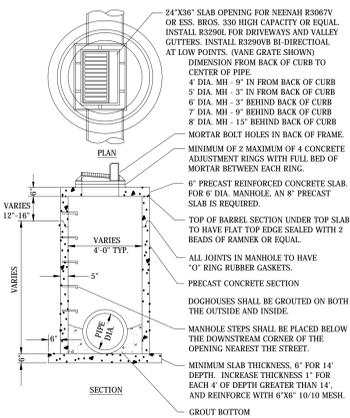
- NOTE: 1. CONTRACTION JOINTS - 1/8" X 2" AT 10' SPACING
2. EXPANSION JOINTS - 1/2" PREFORMED JOINT MATERIAL FULL CONCRETE SECTION
3. SEAL ALL JOINTS WITH HOT POURED SEALER



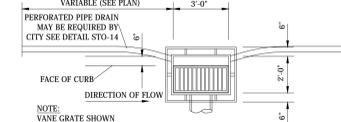
CROSSWALK DETAIL



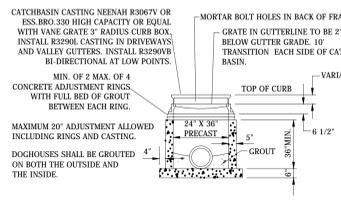
TYPICAL RETAINING WALL AND RAILING DETAIL



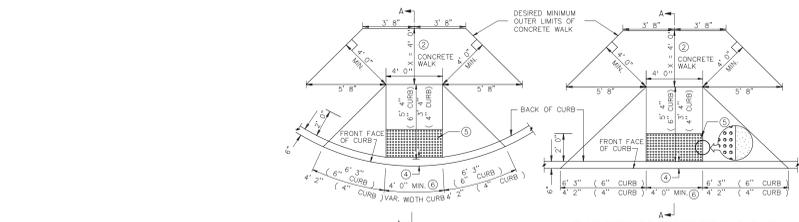
CATCH BASIN INSTALLATION DETAIL



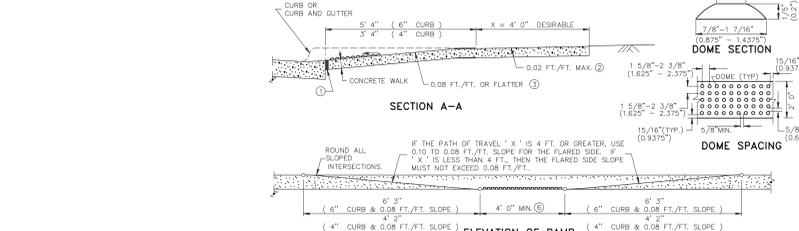
NOTE: VARIABLE GRATE SHOWN



SECTION



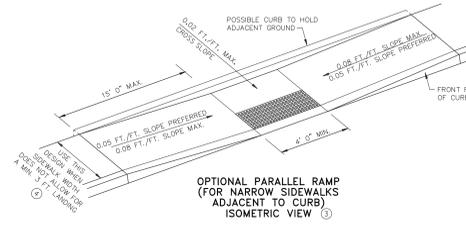
PLAN VIEW OF DIAGONAL RAMP **PLAN VIEW OF PERPENDICULAR RAMP**



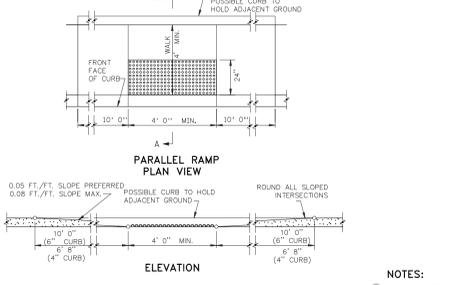
SECTION A-A **DOMES SECTION** **DOMES SPACING** **ELEVATION OF RAMP**

- NOTES:**
- 1/2" INCH PREFORMED JOINT FILLER MATERIAL, AASHTO M 213.
 - WHEN POSSIBLE, PROVIDE A CLEAR PATH OF TRAVEL 4' 0" WIDE BEHIND THE PEDESTRIAN RAMP. A RELATIVELY FLAT 4' X 4' LANDING WILL ALLOW WHEELCHAIRS TO NAVIGATE AROUND THE PEDESTRIAN RAMP. NO SIGNALS, SIGNS, CABINETS, OR OTHER OBSTRUCTIONS ARE ALLOWED IN THE RAMP OR PATH OF TRAVEL.
 - WHEN A MEDIAN IS NOT WIDE ENOUGH FOR TWO PEDESTRIAN RAMPS AND A 48" LANDING BETWEEN THEM, THE PEDESTRIAN CROSSING SHALL BE CUT THROUGH THE MEDIAN AT STREET LEVEL.
 - PLACE THE DETECTABLE WARNINGS (TRUNCATED DOMES) AT THE BACK OF CURB WHEN THE DETECTABLE WARNING SYSTEM IS A PRECAST MATERIAL. THE CURB SHALL BE HAND FORMED TO FILL THE GAP.
 - ADA REQUIRED TRUNCATED DOME AREA SHALL BE 2' 0" MIN. IN DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH (4' 0" TYP.) OF THE CURB RAMP. THE 2' 0" WIDTH (TYP.) TRUNCATED DOME AREA SHALL CONTRAST VISUALLY WITH THE ADJACENT WALK-SURFACE. THE ENTIRE TRUNCATED DOME AREA SHALL BE A LIGHT GRAY OR BUFF TYPICALLY COLOR WHEN THE ADJACENT SIDEWALK IS A DARK COLOR. THE ENTIRE TRUNCATED DOME AREA SHALL BE A DARK GRAY TYPICALLY WHEN THE ADJACENT SIDEWALK IS A LIGHT GRAY CEMENT COLOR. 3' 0" ALLOWED TO STAY IN PLACE FOR RETROFIT PROJECTS. IN SITUATIONS WHERE THE CURB CUT WIDTH EXCEEDS 4' 0", THE DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH.

PEDESTRIAN CURB RAMP FOR THE HANDICAPPED



OPTIONAL PARALLEL RAMP FOR NARROW SIDEWALKS ADJACENT TO CURBS ISOMETRIC VIEW



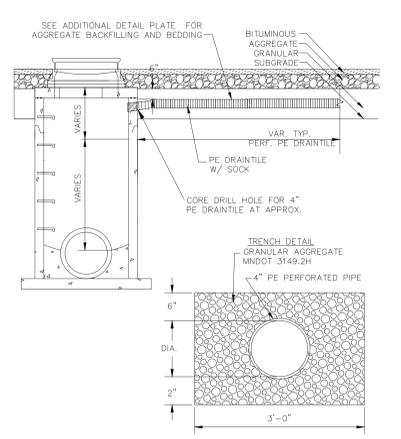
PARALLEL RAMP PLAN VIEW **ELEVATION**

- NOTES:**
- 1/2" HIGH PREFORMED JOINT FILLER MATERIAL, AASHTO M 213.
 - WHEN THERE IS A GATE ARM, THE EDGE OF THE DETECTABLE WARNING SHALL BE 17"-18" FROM THE FACE OF THE GATE ARM. WHEN THERE IS NO GATE, THE EDGE OF THE DETECTABLE WARNING SHALL BE 12.5 FT. (DECK RAIL) OR 8 FT. (LIT) FROM THE CENTERLINE OF THE NEAREST TRACK.
 - ALL RAIL IN STATE IS HEAVY RAIL WITH THE EXCEPTION OF THE LRT IN MINNESOTA.
 - THE REASON FOR USING THIS VARIATION INSTEAD OF THE OFFICIAL DESIGN ON SA 1 SHALL BE DOCUMENTED. IF A LARGE AMOUNT OF WATER IS EXPECTED FROM THE ADJACENT PROPERTY, THE DESIGNER SHOULD PLAN ACCORDINGLY.

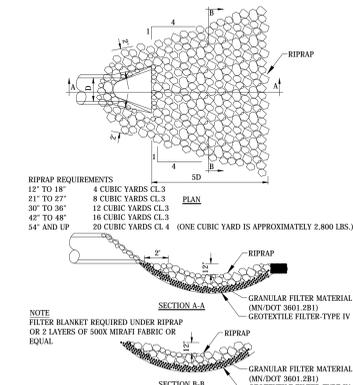
PARALLEL RAMP SECTION A-A

THESE ARE OPTIONAL PEDESTRIAN SIDEWALK ACCESS DETAILS THAT ARE NOT REQUIRED BY CURRENT ADA REGULATIONS

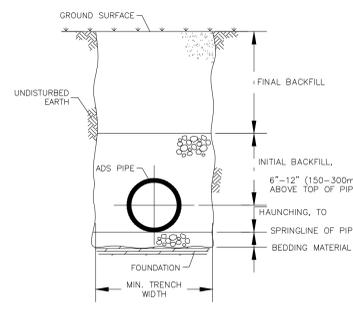
PEDESTRIAN CURB RAMP OPTIONS FOR THE HANDICAPPED



DRAIN TILE INSTALLATION



RIPRAP AT OUTLETS

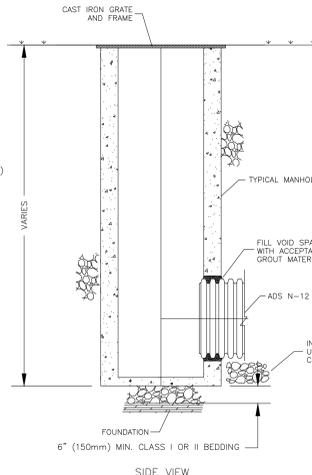


HDPE TRENCH INSTALLATION DETAIL

- NOTES:**
- FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321. STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS, LATEST EDITION, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A WOVEN GEOTEXTILE FABRIC.
 - BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100-600mm) AND 42"-48" (1050-1200mm) CORRUGATED POLYETHYLENE PIPE (CPEP); 6" (150mm) FOR 30"-36" (750-900mm) CPEP.
 - HAUNCHING AND INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
 - UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS:**

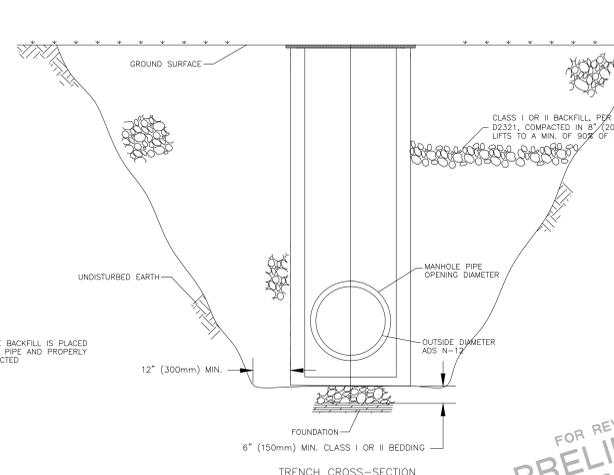
NOMINAL 8 in. (mm)	MIN. RECOMMENDED TRENCH WIDTH, in. (mm)
4 (100)	21 (530)
6 (150)	23 (580)
8 (200)	25 (630)
10 (250)	28 (710)
12 (300)	31 (790)
15 (375)	34 (860)
18 (450)	39 (990)
24 (600)	48 (1220)
30 (750)	66 (1680)
36 (900)	78 (1980)
42 (1050)	83 (2110)
48 (1200)	89 (2260)
60 (1500)	102 (2590)
 - MINIMUM COVER:** MINIMUM RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE SUMMARIZED IN THE FOLLOWING TABLE. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TAKEN FROM THE TOP OF PIPE TO THE GROUND SURFACE.

SURFACE LIVE LOADING CONDITION	MINIMUM RECOMMENDED COVER, in. (mm)
H25 (FLEXIBLE PAVEMENT)	12 (300)
H25 (RIGID PAVEMENT)	12 (300)
E80 RAILWAY	24 (610)
HEAVY CONSTRUCTION	48 (1220)
- *TOP OF PIPE TO BOTTOM OF BITUMINOUS PAVEMENT SECTION



SIDE VIEW

FILL VOID SPACE BETWEEN ADS PIPE AND MANHOLE OPENING WITH A NON-SHRINK GROUT MATERIAL



TRENCH CROSS-SECTION

INSURE BACKFILL IS PROPERLY COMPACTED

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Consultants

Project No. 215-0150.0

Drawn By ELL

Checked By MPR

Date 5/18/16

Project For



RIDGEVIEW HEALTH CAMPUS

Therapy/Fitness Center & Assisted Living

FINAL PUD & PLAT SUBMITTAL 5/18/16

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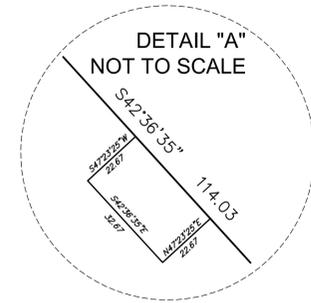
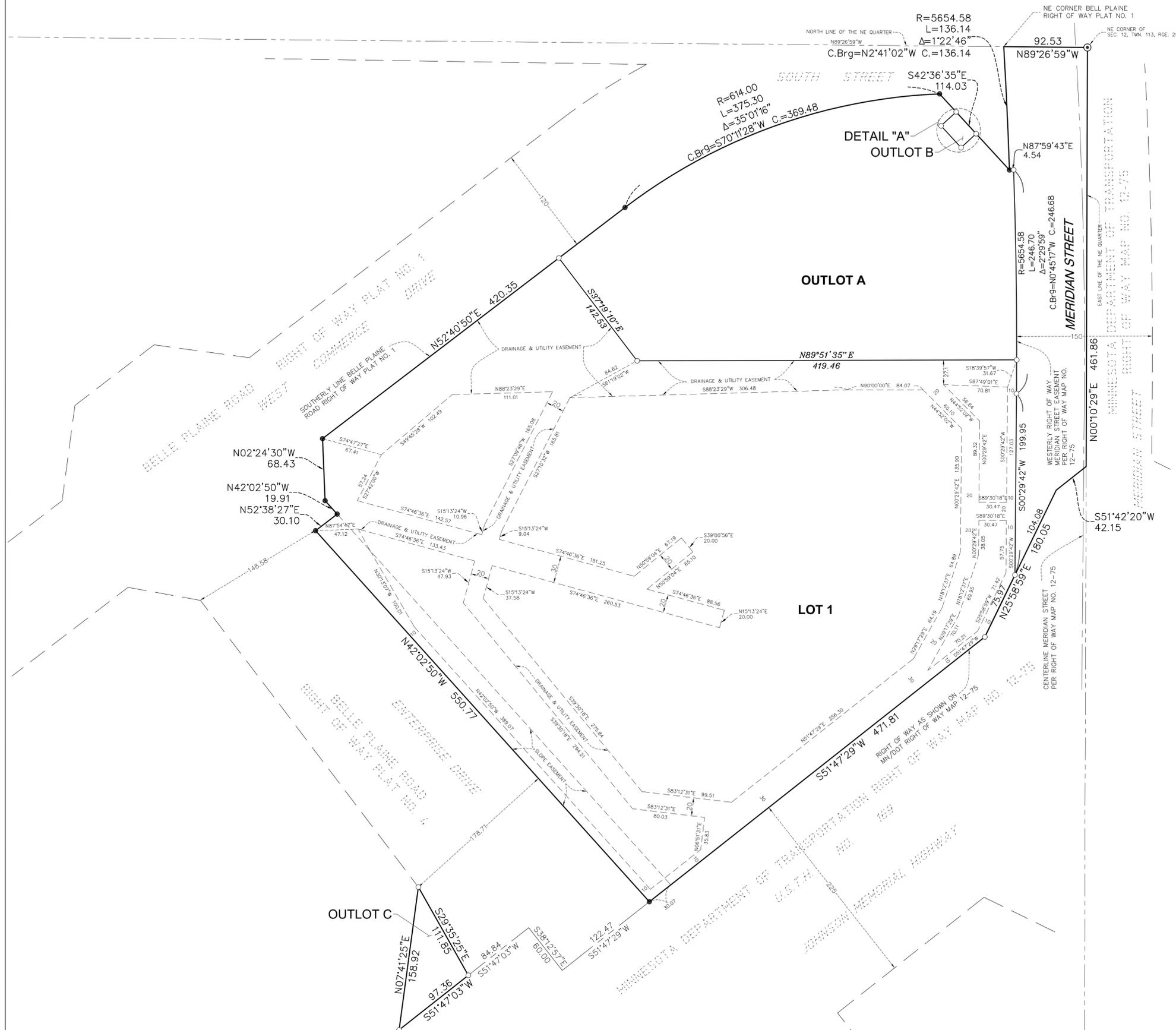
Revisions

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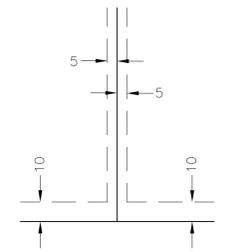
DETAILS

C8.0

RIDGEVIEW HEALTH CAMPUS



DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS:



Being 10 feet in width and adjoining street lines as shown on this plat, unless otherwise shown.

THE NORTH LINE OF THE NE 1/4 SEC. 12, T. 113, R. 25, SCOTT COUNTY, MINNESOTA IS ASSUMED TO HAVE A BEARING OF $N89^{\circ}26'59"W$.

- Denotes monument found 1/2 inch iron pipe
- Denotes 1/2 inch x 18 inch iron monument set marked by license no. 18425 unless otherwise shown

