



Title: Permit 24-580: Trunk Highway 5 Road Reconstruction Project

Applicant: Carver County

Prepared by: Maggie Menden
mmenden@minnehahacreek.org

Recommendation

Approval of the Minnehaha Creek Watershed District (MCWD) permit on the following conditions:

- Execution of Programmatic Maintenance Agreement between MCWD and Carver County
- Applicant to provide receipt of purchased wetland banking credits
- Applicant to provide contractor name, email, and phone number for inspection correspondence
- Applicant to provide any plan addendums and associated materials to MCWD, subject to staff and engineering review

Project Location and Scope

Project Purpose and Scope

Carver County (Applicant or Project Team) proposes to expand and reconstruct a 6.03-mile-long portion of Trunk Highway 5 (TH5 or HWY 5), CSAH 41, and CSAH 13 in the cities of Victoria and Chanhassen. The TH5 project proposes to expand the existing roadway from two to four lanes between Highway 41 in Chanhassen and Commercial Avenue in Victoria, intersection changes, widening of the Lake Minnewashta causeway, reconstruction of Rolling Acres Road/Bavaria Road, and addition of public trails (Project).

Highway 5 is an A-Minor Arterial roadway that connects neighborhoods, cities, job centers, and regional destinations. The Applicant proposes to reconstruct and widen the road to account for experienced delays, crash issues, and projected development growth and increased density within the project corridor. Therefore, the purpose of the project is to reduce traffic congestion, improve safety, and enhance pedestrian and bicyclist safety.

This project is part of the Arboretum Area Transportation Plan (AATP), which resulted from a multi-agency study to identify and prioritize transportation improvements that support local needs and regional connectivity within the cities of Chaska, Chanhassen, and Victoria.

Location and Hydrology

The 6.03-mile long and 104.87-acre site is located within three subwatersheds of the Minnehaha Creek Watershed; the Six Mile Creek, Schutz Lake, and Lake Virginia subwatersheds, all of which ultimately drain into Lake Minnetonka. The eastern portion of the project, approximately 21% of the total area, is within the Riley Purgatory Bluff Creek Watershed District (RPBCWD).

Six Mile Creek Subwatershed

Approximately 13% of the project area is within the Six Mile Creek subwatershed, draining north to Steiger Lake through overland flow and a second order stream, ultimately discharging downstream to Halsteds Bay on Lake Minnetonka.

Schutz Lake Subwatershed

Approximately 33% of the project area is within the Schutz Lake subwatershed, draining north to Schutz Lake through Madelyn Creek, a second order stream, and ultimately discharging downstream to Smithtown Bay on Lake Minnetonka.

Lake Virginia Subwatershed

Approximately 32% of the project area is within the Lake Virginia subwatershed, draining to north through a wetland complex into Tamarack Lake. Within the subwatershed, the project area also drains directly into Lake Minnewashta. Both Tamarack Lake and Lake Minnewashta eventually drain northeast into Lake Virginia.

Bluff Creek Watershed

The eastern portion of the project, approximately 21% of the total project area, is within the Bluff Creek watershed, which is within the Riley Purgatory Bluff Creek Watershed District (RPBCWD).

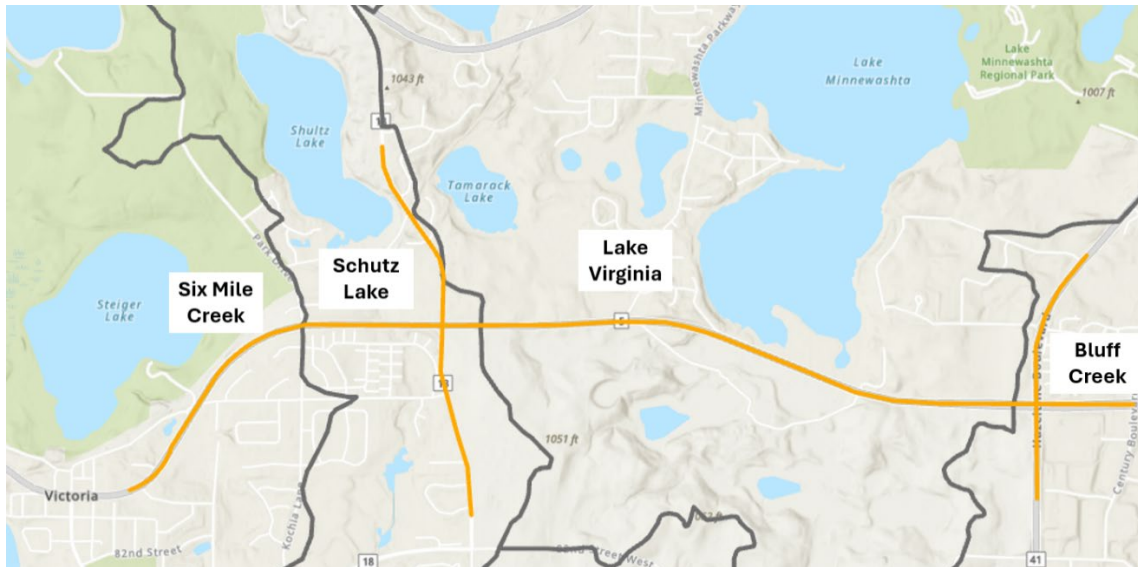


Figure 1. Subwatersheds within the TH5 Project Area

Regulatory Framework and Reason for Board Consideration

This project is being brought before the MCWD Board of Managers due to its large scale, cost, extent of natural resource impacts, and regional impact on development and transportation.

MCWD and RPBCWD have an executed Joint Powers Agreement (Attachment A) for this project, which allows MCWD to exercise regulatory authority over the entire project.

The Project is subject to MCWD's [Erosion Control](#), [Floodplain Alteration](#), [Stormwater Management](#), [Waterbody Crossings & Structures](#), and [Wetland Protection](#) Rules. MCWD staff and District Engineer have reviewed the Project and concluded that it meets the District criterion for each of these rules.

The Project is also subject to state and federal wetland permitting requirements and review. The project proposes impacts to 5.61 acres of wetlands, 5.41 of which are subject to the WCA, 0.20 of which are subject to MCWD regulations and have been reviewed under the District's Wetland Protection Rule. MCWD serves as the Local Government Unit (LGU) for the state's Wetland Conservation Act (WCA) within the City of Victoria, for wetlands outside of the state Right-of-Way (ROW). MnDOT is the LGU for all other wetlands, as the City of Chanhassen and the Minnesota Landscape Arboretum have deferred LGU authority to MnDOT. The United States Army Corps of Engineers (USACE) is reviewing the proposed impacts under Section 404 of the Clean Water Act.

Outside of MCWD regulations and wetland permitting requirements, the Project is subject to state and federal review as it relates to environmental impacts. The Project received a Finding of No Significant Impact (FONSI) from the Federal Highway Administration and a Findings of Facts and Conclusions (FOF&C) from the Minnesota Department of Transportation (MnDOT) with a negative declaration, meaning there is no need for an Environmental Impact Statement (EIS).

MCWD Rule Analysis

Erosion & Sediment Control

The Project proposes 100.8 acres of disturbance and 400,647 cubic yards of soil movement. Due to the extent of land disturbance of this project, the Applicant is required to meet the District's Erosion & Sediment Control Rule.

The Project proposes an Erosion and Sediment Control (ESC) Plan and a Stormwater Pollution Prevention Plan (SWPPP) (sheets 537-563 of Attachment B). These plans include perimeter control such as silt fences and bio logs around the downgradient water resources, in addition to proposed inlet protection and both temporary and permanent stabilization plans. The Applicant proposes to stabilize disturbed areas using MnDOT approved seed mixes and maintain the areas in accordance with MnDOT standards. Redundant erosion control measures will be in place in areas of environmental sensitivity, such as adjacent to downgradient water resources.

The Project will obtain coverage by the Minnesota Pollution Control Agency (MPCA) under the National Pollutant Discharge Elimination System (NPDES).

MCWD staff have reviewed the proposed erosion and sediment control measures and concur that the rule is being met.

Floodplain Alteration

Due to the road widening along Lake Minnewashta and work along Madelyn Creek, the Project is proposing fill, excavation, and grading between the Ordinary High Water (OHW) and the 100-year floodplain, and therefore MCWD's Floodplain Alteration Rule is applicable. For Lake Minnewashta, the OHW is 944.4 and the 100-year is 946.0 (NGVD29). For Madelyn Creek, the OHW is 967.7 and the 100-year is 970.05 (NGVD29).

The Project proposes 1,287 cubic yards of fill within the Lake Minnewashta floodplain. 1 cubic yard is proposed to be placed along the north side of the road, and 1,286 cubic yards are proposed to be placed along the south side of the road, as this is where the road expansion is occurring. To meet Section 4(a) of this rule, the project is providing no net fill by providing 1,293 cubic yards of compensatory floodplain storage. 1,022 cubic yards of cut are proposed along the north side and 270 cubic yards along the south side, resulting in a net gain of 6 cubic yards of floodplain storage (Attachment C).

In the Madelyn Creek floodplain, the Project is replacing an existing 66" RCP culvert with a 4' x 6' box culvert and doing grading work, such as constructing settling pools upstream and downstream of the culvert. This work will create 229 cubic feet (or 8.5 cubic yards) of net floodplain storage. As this is a watercourse, the applicant has demonstrated that these changes will not cause a change in upstream or downstream flood levels, therefore meeting the No-Rise Standard.

Staff and District Engineer have reviewed the proposal and confirmed that it meets MCWD's Floodplain Alteration Rule.

Stormwater Management

MCWD's Stormwater Management Rule is applicable due to the project being a Linear Transportation project that proposes more than one acre of new and reconstructed impervious surface.

In accordance with Section 2(a)1 of the rule, because the project proposes over an acre of new and reconstructed impervious surface and a net increase of impervious surface greater than 10,000 square feet, the project is required to provide rate control and volume control equal to the larger of: one inch of volume from new impervious surface or 0.5 inches of volume from new impervious and reconstructed impervious surface.

The project proposes 12.9 acres of new impervious surface, and therefore 1 inch over the new impervious surface would be 1.06 acre-feet of required volume abstraction. The project proposes 59.6 acres of new and reconstructed impervious surface, and therefore 0.5 inches over the new and reconstructed impervious surface would be 2.48 acre-feet of

required volume abstraction. 0.5 inches of volume from new impervious and reconstructed impervious surface (2.48 acre-feet) is the larger volume and is the applicable volume requirement.

Stormwater runoff from the road currently drains to roadside ditches and is conveyed via culverts to receiving waterbodies. In some areas, such as Lake Minnewashta, runoff sheet flows directly into the receiving waterbody.

To manage surface water, multiple stormwater management basins are proposed throughout the corridor to attenuate peak flow rates and provide water quality treatment. Additionally, existing stormwater basins will also be utilized for rate control and water quality treatment.

Volume Control

Per Section 3(a)2, the Project is required to provide volume reduction for 0.5 inches over the total new and reconstructed impervious surface (59.6 acres), which equates to 2.48 acre-feet of volume abstraction.

To meet these requirements, the Applicant is proposing to incorporate 14 Best Management Practices (BMPs) throughout the corridor (see sheets 529-529 of Attachment B). The project is proposing two infiltration basins in areas that have suitable soils for infiltration. In areas where the soils are predominantly clay, which represents much of the project, and therefore infiltration is prohibited, the project proposes six filtration facilities, two underground detention pipe galleries, and four wet ponds. The two proposed underground pipe galleries provide rate control but will not provide volume abstraction. Two of the proposed wet ponds do not meet Minnesota Stormwater Manual requirements to achieve credit toward volume control requirements.

The table below demonstrates the proposed stormwater facilities and their associated volume credits.

SW BMP	BMP Type	Credited Volume Control
Enki*	Wet Pond	0.00
Trillium	Filtration Basin	0.13
Buckbean	Infiltration Basin	0.19
Blazing Star	Filtration Basin	0.30
Pipe Gallery A**	Underground	0.00
Pipe Gallery B**	Underground	0.00
Butterfly Weed	Filtration Basin	0.37
Lady Slipper	Filtration Basin	0.16
Trout Lily*	Wet Pond	0.00
St. Moritz	Wet Pond	0.09
Bog Aster	Infiltration Basin	0.34
Goldenrod	Wet Pond	0.95
CSAH 41 Basin	Filtration	0.03
CSAH 13 Ditch	Filtration	0.02
TOTAL		2.58

**Proposed wet ponds which do not meet Minnesota Stormwater Manual requirements to achieve credit toward volume control requirements.*

***Proposed detention pipe galleries which only provide rate control and do not achieve credit toward volume control requirements.*

The project is required to provide 2.48 ac-ft of volume control, and is proposing to provide 2.58 ac-ft, therefore meeting the District's volume requirements.

Water Quality

Per Section 3(a), for purposes of both volume and phosphorus control, a project must provide the required volume reduction. Within the rule, when a project provides the required volume reduction, phosphorus control is assumed to be met.

While the project meets the District's volume control requirements, because the Project has multiple receiving waterbodies, the District Engineer reviewed modeling to understand the project's impact on water quality for each receiving waterbody. Using the Minimal Impact Design Standards (MIDS) best management practice calculation, it was estimated that the project as a whole will reduce the annual total phosphorus load to downstream waterbodies by roughly 8.3 pounds per year.

Christmas Lake and the wetland near 82nd St are estimated to see no change in annual total phosphorus load. Lake Minnewashta, Steiger Lake, Tamarack Lake, and Bluff Creek are estimated to see a total phosphorus load reduction of between 2 and 6 pounds per year. Schutz Lake is estimated to see an increase of roughly 4 pounds per year increase in total phosphorus load.

The total phosphorus watershed load to Schutz Lake is roughly 715 pounds per year. The lake is not listed as Impaired Water per the Minnesota Pollution Control Agency standards. A 4-pound increase would account for roughly 0.56% of the annual load.

The Project Team and MCWD explored some potential opportunities to offset the 4-pound load increase, including the expansion or retrofit of existing BMPs, additional areas for treatment, and stabilizing a portion of Madelyn Creek to reduce the amount of channel erosion into Schutz Lake. Ultimately, the stream stabilization project was found to be the most feasible, as the existing BMPs are either already maximized and space constrained, or the estimated potential load increase through a retrofit is minimal. The Applicant did not pursue the stream stabilization project further as the Applicant understands it would necessitate further federal review through the EAW.

The project is providing the required stormwater volume reduction, and therefore meets section 3(a) of this rule.

Rate Control

Per Section 4, an action may not increase the peak runoff rate from the site, in aggregate, for the 2-, 10-, and 100-year storm events.

The Project has 15 different discharge points, all of which do not increase runoff rates for the 2-, 10-, and 100-year storm events, meeting this section of the rule (see Table 6 in Attachment F).

Flood Separation

Per Section 6, there must be two feet of vertical separation between the 100-year high water elevation of a stormwater practice and the low opening of any structure unless the structure opening is hydraulically disconnected from the stormwater practice.

MCWD and the District Engineer have reviewed for sufficient flood separation between each of the proposed stormwater facilities and any nearby structures and have found that this criterion is met.

Impact on Downstream Waterbodies

Per Section 7(a), any new point sources must treat for sediment and phosphorus removal before discharging to a waterbody. The Project proposes to use sump manholes with SAFL Baffles upgradient of all new point sources, allowing sediment to settle before entering receiving waterbodies and therefore meeting this section of the rule.

Section 7(b) requires that bounce, inundation, and runout control elevation meet certain criteria. For each downgradient waterbody, bounce, inundation, and runout control elevation requirements are being met (see Table 7 in Attachment F).

Conclusion

The proposed project proposes to meet the Stormwater Management rule through the incorporation of 14 BMPs, meeting volume and rate control requirements, resulting in an estimated net decrease in phosphorus loading of 8.3 lbs/yr.

Waterbody Crossings & Structures

The Project is proposing to construct and reconstruct structures, such as storm sewer outlets, culverts, and BMP outlets, below the top of bank of waterbodies throughout the project area. The locations of these structures can be found on sheets 430-448 of Attachment B.

12 structures will be replaced in a way that will not cause a change in hydraulic, navigational, nor wildlife passage capacity, when applicable. 2 of these structures will be within a watercourse, which requires that the applicant demonstrate that there will be no change to upstream or downstream flood stage.

7 new structures are being proposed, including the construction of a span bridge that will reconnect Lake Minnewashta to the wetland to the south.

Section 3(a) states that the use of the bed or bank of a waterbody must serve a public purpose within public waters, and meet a demonstrated specific need in all other cases. All structures are within public waters and therefore must serve a public purpose. These structures serve a public purpose and meet the demonstrated need of conveying stormwater runoff from the roadway.

For the structures within a watercourse, per Section 3(b), modeling has been provided to demonstrate that these structures will not change upstream or downstream flood stage. The District Engineer has reviewed the analysis and concurs in it.

Section 3(c) requires that the Project preserves navigational capacity. The new and replaced structures will not create navigational capacity, as these are designed to convey stormwater and not meant for navigational passage.

Section 3(d) requires that aquatic and upland wildlife passage be preserved. For the culverts that are proposed to be replaced, there is no change in wildlife capacity. Of the proposed 7 new culverts there will be no impact to aquatic and upland wildlife passage, as the culverts will not extend into the waterbody in a way that could constrict passage. The proposed bridge on Lake Minnewashta will incorporate a wildlife passage bench.

Section 3(e) requires that the crossing be designed to not promote erosion or scour, or otherwise affect bed or bank stability or water quality within the waterbody. The proposed design includes riprap downstream of the culverts and outlets to disperse flows. The design has been reviewed by the District Engineer to ensure that the proposal has appropriate invert elevations and downstream dispersion of flows so as to not promote erosion, scour, or adversely affect water quality.

Section 3(f) requires that the crossing be the “minimal impact” solution to the specific need. The Applicant provided two alternatives to the proposed Project. One alternative was to make no changes to the existing structures. This would be the least impactful option but would not meet the purpose and need of the project to bring the roadway up to current safety standards. Another option would maintain the rural section roadway while still expanding the road. This option would require wetland impacts and floodplain fill. Alternatives analyzed for the Lake Minnewashta Causeway were no-build, widening of the embankment, half bridges, or a full bridge. The chosen option met the needs and purpose of the Project’s social, economic, and environmental impacts.

MCWD Staff and District Engineer have reviewed the alternatives analysis and have found that the proposal meets the minimal impact criterion.

Wetland Protection

Wetland Conservation Act (WCA)

Under Minnesota Rules Chapter 8420 (WCA), excavation in permanently or semi permanently flooded areas of wetlands, and any wetland fill, are subject to review and regulation. The project proposes 5.41 acres of wetland impacts that are subject to WCA regulations. When reviewing wetland impacts under WCA, the Applicant must show that they first avoided the impact to the greatest extent feasible and then minimized the impacts to the greatest extent before seeking replacement.

The Local Government Units (LGUs) for these impacts are MCWD and the Minnesota Department of Transportation (MnDOT). MCWD is the LGU for the wetland impacts within the City of Victoria and outside of the state ROW, which total to 0.26 acres. MnDOT is the LGU for all other wetland impacts, which totals to 5.15 acres.

The Project Team has coordinated with the LGU's (MCWD and MnDOT) and the Technical Evaluation Panel, which consists of staff from the Board of Water and Soil Resources, Department of Natural Resources, and Carver County Soil and Water Conservation District, to step through the WCA siting criteria such as impact avoidance, minimization, and replacement. The Project has demonstrated that the impacts cannot be avoided, as impacts are necessary for the road widening and implement safety measures. The Applicant would not be able to avoid the proposed impacts while meeting project goals. Minimization was achieved by considering multiple design alternatives, with varying options of roadway footprints. The Project is seeking a Notice of Decision for the approval of wetland replacement via wetland banking.

Excavation

Section 3 of the Wetland Protection rule is applicable due to the proposed wetland excavation of wetlands that are not subject to WCA.

The project proposes 0.20 acres of wetland excavation that are not subject to WCA regulations, and therefore are regulated under this rule and required to provide replacement at a 2:1 ratio, resulting in 0.40 acres of wetland replacement. Attachment D shows the Project's proposed impacts to wetlands.

To meet Section 2(c), the applicant has sited replacement in the following order.

1. Within the same District subwatershed: there are currently no available wetland credits available for purchase within the applicable subwatersheds.
2. Within the Minnehaha Creek watershed: there are currently no available wetland credits available for purchase within the Minnehaha Creek watershed.
3. Within the same eight-digit Hydrologic Unit Code watershed: the Project is proposing to purchase wetland credits within the 07010206 watershed, thereby meeting MCWD siting requirements.

Vegetated Buffer

Per Section 4, a buffer is required if District regulated wetlands are impacted, if the Waterbody Crossings & Structures Rule is applicable, and/or if the Stormwater Management Rule is applicable.

As this is a linear project and available buffer area is limited, the Project proposes to establish vegetated wetland buffers within the extent of available right-of-way. Buffers will be established using MnDOT approved native seed mix (Southern Tallgrass Roadside).

Per the Project's ESC, wetlands and buffer areas will be fenced to exclude construction operations and to prevent sediment movement into the buffer and wetland.

Per Section 5(c)3, a road authority is permitted to partake in maintenance measures as required to maintain public safety.

Public Comments

Public Notice Process

Per MCWD's Procedures Rule, a Public Notice is required to be sent to properties within 600 feet of the project area. On July 30th, 2025, MCWD sent out postcards to 757 property owners requesting comments on the Project as it relates to MCWD regulations.

On August 29th, a Board Consideration Notice was mailed to the same 757 property owners to inform them that the Project will be heard before the MCWD Board of Managers on September 11th, 2025. Both notices were also posted on our website.

Public Comment Summary

During the public notice period, MCWD received 4 inquiries. Two of the inquiries were related to traffic and detour concerns, which are not within MCWD's regulatory purview. The County provides project and construction updates via an email newsletter. Interested parties can subscribe to this newsletter on their website.

Full comments can be found in Attachment E.

Public Comments

Applewood Neighborhood (Bavaria Road)

A resident expressed concern about stormwater runoff along Bavaria Road, noting that it currently flows into ditches and ultimately into Applewood backyards, contributing to persistently wet conditions. They suggested adding curbs, storm drains, and surface inlets as part of the planned trail and resurfacing project to better capture and convey runoff and requested improvements to prevent additional water from being directed toward private property.

MCWD has reviewed these comments in coordination with the Project Team (Carver County), as MCWD does not prescribe specific design elements for applicants. The project proposes curb and gutter on the east side of Bavaria Road where the new trail will be constructed, while the west side will retain the existing ditch system to minimize impacts to properties on that side. Concrete flared end sections will be placed at low points on the east side to collect offsite runoff, which will be conveyed north to Madelyn Creek via storm sewer. This approach maintains existing drainage patterns where drainage is routed to ditches within the county-owned ROW.

Tristian Heights Neighborhood (Minnewashta Parkway)

A resident raised concern about the proposed stormwater pond and underpass near Minnewashta Parkway, citing potential impacts to a neighborhood park, trails, and nearby residences, as well as increased construction-related noise, dust, and vegetation removal. They stated that locating stormwater facilities on non-Arboretum property is inconsistent with local and MCWD plans that designate the area as park/open space, and noted that the Arboretum declined to host stormwater infrastructure. They also expressed concern that the project would divert runoff from Lake Minnewashta to Tamarack Lake, which they view as inconsistent with natural topography and potentially harmful to sensitive resources. They cited state investments to restore Tamarack Lake and urged MCWD to deny the pond as proposed, stating it conflicts with MCWD's Stormwater Management Rule.

MCWD directed comments related to construction impacts to the Project Team, as noise, dust, and visual impacts are outside MCWD's regulatory authority. While MCWD does not regulate land use or determine the specific siting of stormwater facilities, the Project does not propose a significant change to drainage areas in the Minnewashta/Tamarack area. Instead, it will capture and treat impervious surface runoff within this drainage area using the Butterfly Weed basin. While additional impervious surface will be routed through this area, modeled discharge rates to the wetland and Tamarack Lake will not increase; they are proposed to decrease from existing conditions.

Currently, runoff from TH 5 flows untreated into the wetland before reaching Tamarack Lake. Under the proposed Project, this runoff will be directed to a stormwater basin for treatment before discharging to the wetland and then Tamarack Lake, as shown in Table 7: Impact to Downgradient Waterbodies. Because there is currently little managed

stormwater treatment in the project area, this project presents an opportunity to add new treatment throughout the corridor and bring the conveyance and treatment system up to current standards.

Conclusion

The Applicant has applied for a Minnehaha Creek Watershed District permit under the Erosion Control, Stormwater Management, Floodplain Alteration, Waterbody Crossings and Structures, and Wetland Protection Rules.

Based on staff and MCWD Engineer analysis of the Applicant's submittals, the application meets all criteria for the applicable rules.

Therefore, staff recommend approval of the permit application, with the conditions listed at the beginning of this report.

Attachments

- A. Joint Powers Agreement
- B. Construction Plan Set
- C. Floodplain Exhibits
- D. Wetland Impacts
- E. Public Comments
- F. Figures

Attachment A: Joint Powers Agreement

Joint Powers Agreement

Between Minnehaha Creek Watershed District and Riley-Purgatory-Bluff Creek Watershed District

MN Trunk Highway 5 Reconstruction Project

This agreement is made by and between Minnehaha Creek Watershed District (MCWD) and Riley-Purgatory-Bluff Creek Watershed District (RPBCWD), each a political subdivision of the State of Minnesota with purposes and powers as set forth in Minnesota Statutes chapters 103B and 103D. This agreement is executed by both parties under authority of Minnesota Statutes section 471.59, which permits two or more governmental units to jointly and cooperatively exercise any power common to them.

Recitals

WHEREAS pursuant to Minnesota Statutes sections 103D.341 and 103D.345, MCWD and RPBCWD each has adopted and implements rules and permitting requirements applicable to land-disturbing activity, to manage and protect water resources within its legal boundaries;

WHEREAS County is the proponent of a road project known as MN Trunk Highway 5 Reconstruction Project ("Project"), which will involve land-disturbing activity within the boundaries of both MCWD and RPBCWD, but the great majority of which will occur within MCWD boundaries;

WHEREAS RPBCWD finds that MCWD regulation will protect water resources within RPBCWD boundaries to an extent at least equivalent to RPBCWD regulation, and MCWD and RPBCWD agree that for administrative efficiency, a single watershed district should exercise regulatory authority over the Project;

WHEREAS County, in the interest of permitting efficiency and consistency, concurs in MCWD exercise of regulatory authority over the entire Project and has confirmed this in the letter attached hereto as Attachment A, incorporated herein.

THEREFORE it is mutually agreed by and between MCWD and RPBCWD as follows:

1. MCWD will exercise its permitting authority over that part of the Project within RPBCWD boundaries as delineated on Attachment B hereto, incorporated herein, in the same manner as over that part of the Project within MCWD boundaries. RPBCWD will refrain from exercising its permitting authority over the Project, however it retains its statutory authority to enter and inspect the Project site.
2. An MCWD permit for the Project may include a condition requiring that a stormwater management facility be installed, inspected and maintained for a term of years, or in perpetuity. The permit also may authorize MCWD to enter property to inspect, do work or otherwise occupy the Project site. By this JPA, any such permit condition or exercise of authority is not placed in question by the fact that the part of the site on which the facility is located, or that MCWD crosses or occupies, is not within the MCWD legal boundary.
3. Neither party to this agreement agrees to be responsible for the acts or omissions of the other within the meaning of Minnesota Statutes §471.59, subdivision 1a.

IN WITNESS WHEREOF, intending to be legally bound, the parties hereto execute and deliver this agreement.

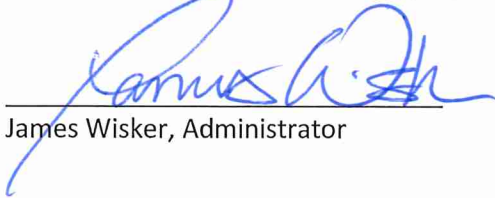
Riley-Purgatory-Bluff Creek Watershed District



Terry Jeffery, Administrator

Date: September 4, 2025

Minnehaha Creek Watershed District



James Wisker, Administrator

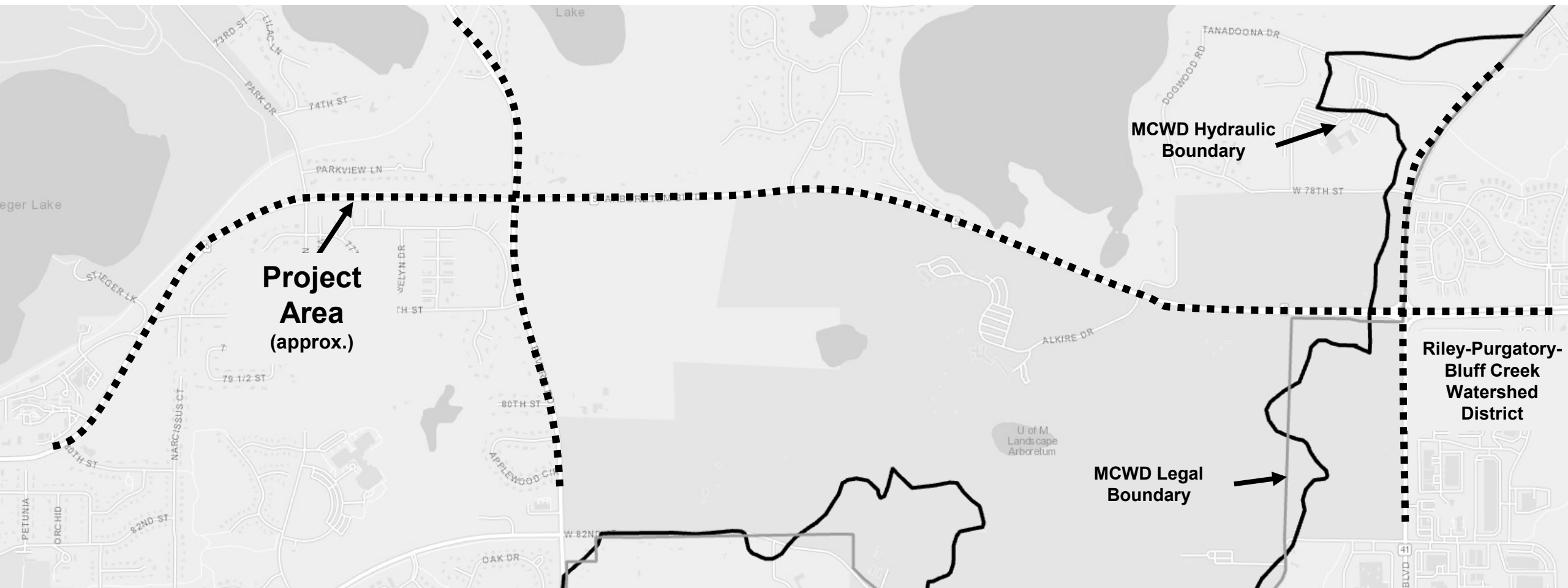
Date: 9-10-25

EXHIBIT A

Carver County Concurrence

EXHIBIT B

Trunk Highway 5 Trail Project Boundaries



**Project
Area
(approx.)**

**MCWD Hydraulic
Boundary**

**MCWD Legal
Boundary**

**Riley-Purgatory-
Bluff Creek
Watershed
District**

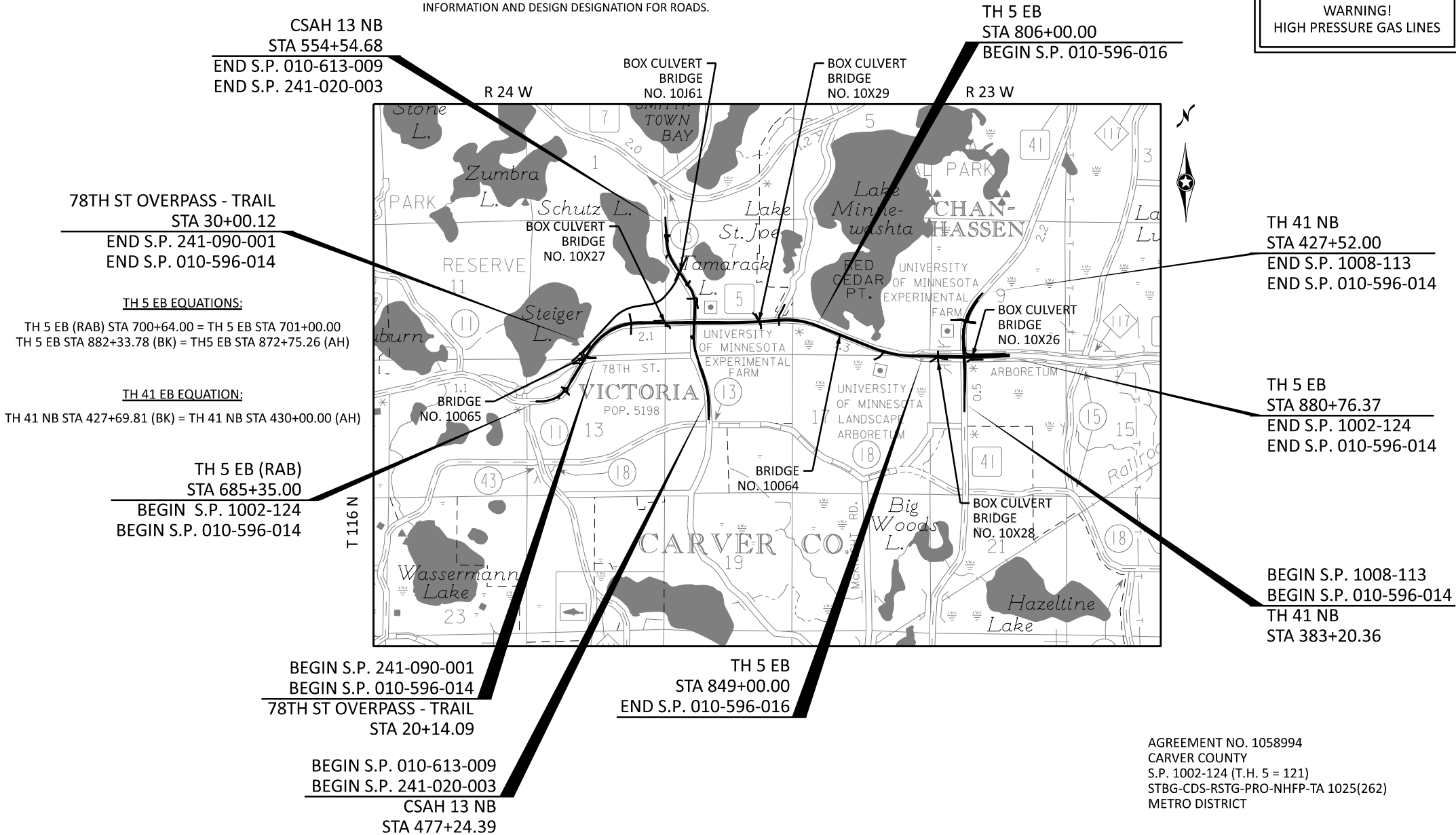
Attachment B: Construction Plan Set

MINNESOTA DEPARTMENT OF TRANSPORTATION
CARVER COUNTY

CONSTRUCTION PLAN FOR GRADING, BITUMINOUS SURFACING, ROUNDABOUTS, ADA IMPROVEMENTS, RETAINING & NOISE WALLS,
SIGNALS, TMS, LIGHTING, PEDESTRIAN CROSSWALK FLASHER SYSTEM, AND
BRIDGES #10X26, #10X27, #10X28, #10X29, #10J61, #10064, #10065

LOCATED ON T.H. 5 FROM 0.08 MILES EAST OF C.S.A.H. 11 TO 0.29 MILES EAST OF T.H. 41
LOCATED ON T.H. 41 FROM 0.33 MILES SOUTH OF T.H. 5 TO 0.49 MILES NORTH OF T.H. 5
LOCATED ON C.S.A.H. 13 FROM 0.05 MILES NORTH OF C.S.A.H. 18 TO 0.39 MILES SOUTH OF T.H. 7

NOTE: SEE NEXT SHEET FOR PROJECT LENGTH
INFORMATION AND DESIGN DESIGNATION FOR ROADS.



WARNING!
HIGH PRESSURE GAS LINES

MINN. PROJ. NO. STBG-CDS-RSTG-PRO-NHFP-TA 1025(262)

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD
SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST "MINNESOTA MANUAL ON UNIFORM
TRAFFIC CONTROL DEVICES" (MUTCD), INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY
TRAFFIC CONTROL ZONE LAYOUTS.

SHEET NO.	INDEX
1-2	TITLE SHEET
3-10	GENERAL LAYOUT
11-24	STATEMENT OF ESTIMATED QUANTITIES
25	STANDARD PLATES
26-28	STANDARD PLANS
29-36	EARTHWORK TABULATION & SUMMARY
37	SOILS & CONSTRUCTION NOTES
38-64	QUANTITY TABULATION
65-89	EXISTING UTILITY PLANS
90-117	TYPICAL SECTIONS
118-130	MISCELLANEOUS DETAILS
131-156	ALIGNMENT PLAN & TABULATION
157-180	INPLACE TOPOGRAPHY PLANS
181-204	REMOVAL PLANS
205-228	CONSTRUCTION PLANS
229-264	CONSTRUCTION PROFILE
265-290	SUPERELEVATION PLANS
291-321	INTERSECTION DETAILS
322-331	WALL ALIGNMENT PLAN & TABULATION
332-351	PMB RETAINING WALL PLAN & DETAILS
352-407	CIP RETAINING WALL PLAN & DETAILS
408-420	REINFORCED SOIL SLOPE PLAN & DETAILS
421-426	MOMENT SLAB DETAILS
427-428	NOISE WALL PLAN & DETAILS
429-453	DRAINAGE PLANS
454-511	DRAINAGE PROFILES & TABULATIONS
512-528	DRAINAGE SUMMARIES & DETAILS
529-536	POND GRADING PLANS
537-560	EROSION CONTROL & TURF ESTABLISHMENT PLANS
561-563	STORM WATER POLLUTION PREVENTION PLAN
564-649	SIGNALING & STRIPING PLANS
650-699	SIGNAL PLANS
700-702	PEDESTRIAN CROSSWALK FLASHER SYSTEM
703-721	LIGHTING PLANS
722-729	CROSS SECTION MATCHLINE LAYOUT
LS01-LS24	LANDSCAPING & IRRIGATION PLANS
UT01-UT41	SANITARY SEWER & WATERMAIN PLAN
TC1-TC185	STAGING & TRAFFIC CONTROL PLANS
TCP1-TCP83	TEMPORARY CONSTRUCTION PLANS
TSP1-TSP24	TEMPORARY SIGNAL PLANS
SZ01-SZ40	TRAFFIC MANAGEMENT SYSTEM
B1-B100	BOX CULVERT PLANS
XSP001-XSP318	CROSS SECTIONS

THIS PLAN CONTAINS 1544 SHEETS



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.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.

PRINT NAME: DENA M. KING LICENSE # 45859

DATE: 03/14/2025 SIGNATURE: Dena M. King

RECOMMENDED FOR APPROVAL CARVER COUNTY ENGINEER

RECOMMENDED FOR APPROVAL CITY OF VICTORIA ENGINEER

RECOMMENDED FOR APPROVAL CITY OF CHANHASSEN ENGINEER

DISTRICT STATE AID ENGINEER:
REVIEWED FOR COMPLIANCE WITH STATE AID AND FEDERAL AID RULES/POLICY

STATE AID ENGINEER:
APPROVED FOR STATE AID AND FEDERAL AID FUNDING

OFFICE OF LAND MANAGEMENT APPROVAL DIRECTOR, LAND MANAGEMENT

APPROVED STATE DESIGN ENGINEER

S.P. 1002-124 (TH5=121), S.P. 1008-113 (TH41=12), S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

SHEET NO. 1 OF 729 SHEETS

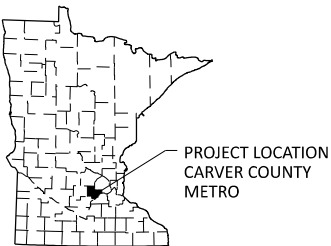
014M00197_pen.tbl

pdf-B and W.pltcf
9:05:27 PM

benul
5/13/2025

INDEX MAP	0' 2500'
GENERAL LAYOUT	0' 150'
PLAN	0' 50'
PROFILE	0' HORIZ. 50' 0' VERT. 5'
CROSS-SECTION	0' HORIZ. 10' 0' VERT. 10'

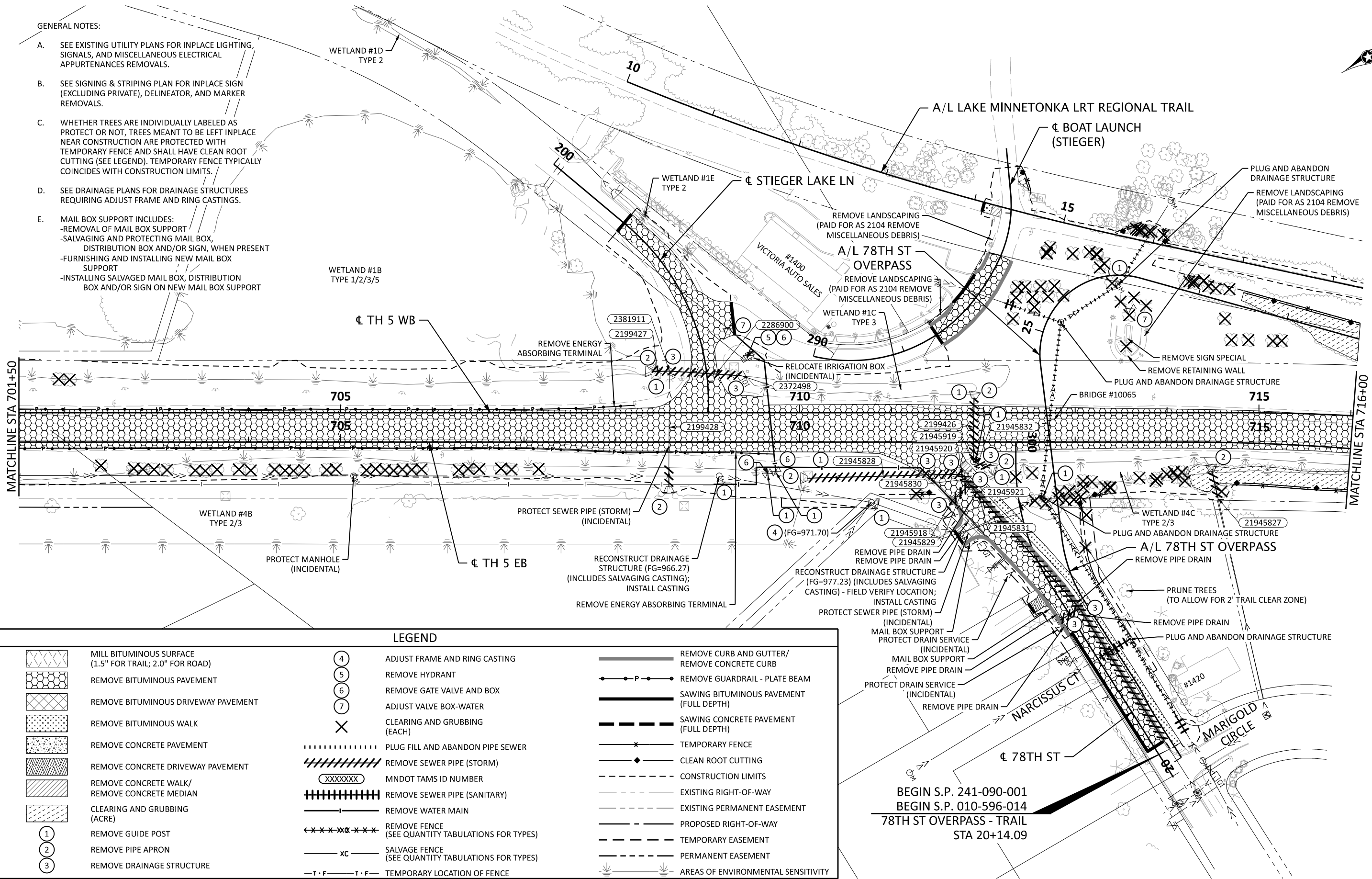
PLAN REVISIONS		
DATE	SHEET NO.	APPROVER



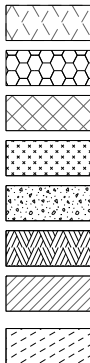
014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Removal\cd1002124_180rem002.dgn
pdf-B and W.plt
11:11:10 AM
5/12/2025

GENERAL NOTES:

- A. SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
- B. SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
- C. WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
- D. SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
- E. MAIL BOX SUPPORT INCLUDES:
-REMOVAL OF MAIL BOX SUPPORT
-SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
-FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
-INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT



LEGEND



- 1 REMOVE GUIDE POST
2 REMOVE PIPE APRON
3 REMOVE DRAINAGE STRUCTURE

- 4 ADJUST FRAME AND RING CASTING
5 REMOVE HYDRANT
6 REMOVE GATE VALVE AND BOX
7 ADJUST VALVE BOX-WATER
X CLEARING AND GRUBBING (EACH)
..... PLUG FILL AND ABANDON PIPE SEWER
///// REMOVE SEWER PIPE (STORM)
XXXXXXX MNDOT TAMS ID NUMBER
+++++ REMOVE SEWER PIPE (SANITARY)
- - - - - REMOVE WATER MAIN
- x - x - x - x - x REMOVE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
- xc - - - - - SALVAGE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
- T - F - - - - - TEMPORARY LOCATION OF FENCE

- - - - - REMOVE CURB AND GUTTER/
REMOVE CONCRETE CURB
- P - - - - - REMOVE GUARDRAIL - PLATE BEAM
- - - - - SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- - - - - SAWING CONCRETE PAVEMENT (FULL DEPTH)
- x - - - - - TEMPORARY FENCE
- - - - - CLEAN ROOT CUTTING
- - - - - CONSTRUCTION LIMITS
- - - - - EXISTING RIGHT-OF-WAY
- - - - - EXISTING PERMANENT EASEMENT
- - - - - PROPOSED RIGHT-OF-WAY
- - - - - TEMPORARY EASEMENT
- - - - - PERMANENT EASEMENT
- - - - - AREAS OF ENVIRONMENTAL SENSITIVITY



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour
TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

DESIGNED TAL
DRAWN TAL
CHECKED BAU

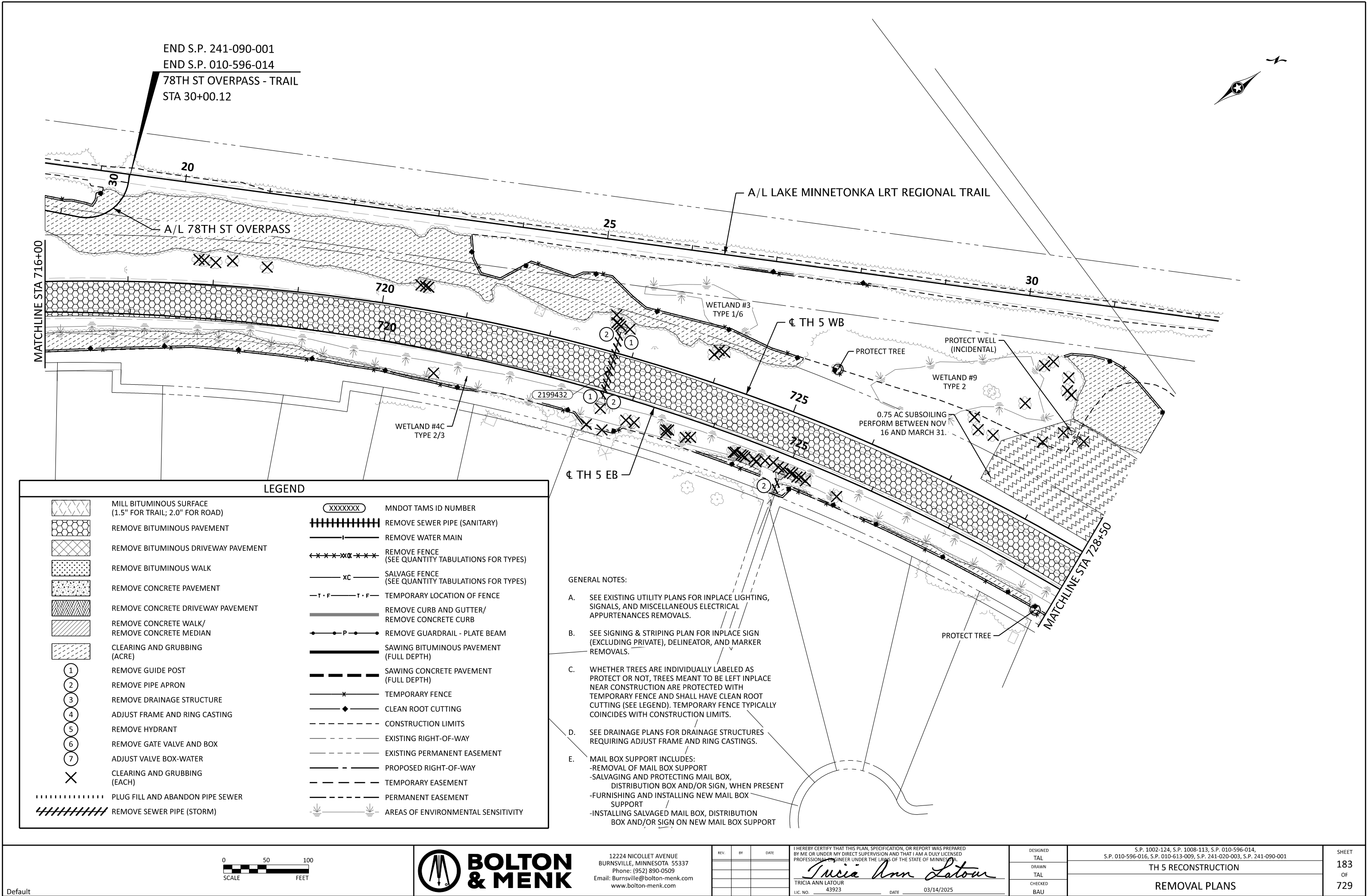
S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

REMOVAL PLANS

SHEET
182
OF
729

014M00197_pen.tbl
H:\CADO\014M00197\CAD\ORD\Removal\cd1002124_180rem003.dgn
pdf-B and W.pltctg
11:11:12 AM
triciala
5/12/2025



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: BurnsVille@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour

TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

DESIGNED
TAL
DRAWN
TAL
CHECKED
BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

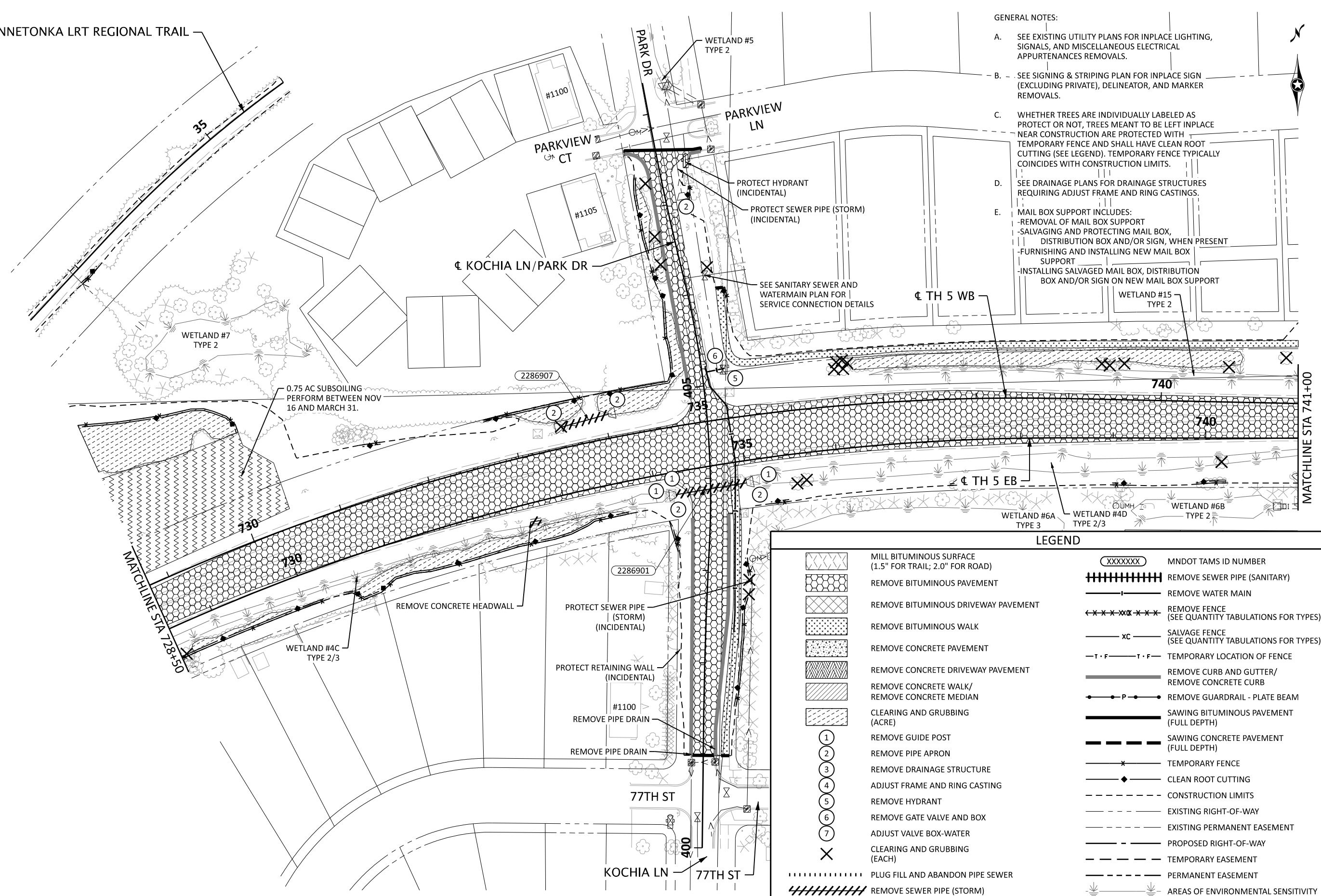
TH 5 RECONSTRUCTION

REMOVAL PLANS

SHEET
183
OF
729

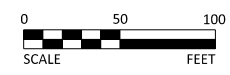
014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Removal\cd1002124_180rem004.dgn
pdf-B and W.plt:cfg
1:36:50 PM
triciala
5/12/2025

A/L LAKE MINNETONKA LRT REGIONAL TRAIL



- GENERAL NOTES:
- A. SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
 - B. SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
 - C. WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
 - D. SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
 - E. MAIL BOX SUPPORT INCLUDES:
 - REMOVAL OF MAIL BOX SUPPORT
 - SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
 - FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
 - INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT

LEGEND	
	MILL BITUMINOUS SURFACE (1.5" FOR TRAIL; 2.0" FOR ROAD)
	REMOVE BITUMINOUS PAVEMENT
	REMOVE BITUMINOUS DRIVEWAY PAVEMENT
	REMOVE BITUMINOUS WALK
	REMOVE CONCRETE PAVEMENT
	REMOVE CONCRETE DRIVEWAY PAVEMENT
	REMOVE CONCRETE WALK/ REMOVE CONCRETE MEDIAN
	CLEARING AND GRUBBING (ACRE)
①	REMOVE GUIDE POST
②	REMOVE PIPE APRON
③	REMOVE DRAINAGE STRUCTURE
④	ADJUST FRAME AND RING CASTING
⑤	REMOVE HYDRANT
⑥	REMOVE GATE VALVE AND BOX
⑦	ADJUST VALVE BOX-WATER
X	CLEARING AND GRUBBING (EACH)
.....	PLUG FILL AND ABANDON PIPE SEWER
	REMOVE SEWER PIPE (STORM)
XXXXXXX	MNDOT TAMS ID NUMBER
	REMOVE SEWER PIPE (SANITARY)
— —	REMOVE WATER MAIN
-X-X-X-X-X-	REMOVE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
-xc-	SALVAGE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
-T-F-T-F-	TEMPORARY LOCATION OF FENCE
—P—	REMOVE CURB AND GUTTER/ REMOVE CONCRETE CURB
—P—	REMOVE GUARDRAIL - PLATE BEAM
—	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
—	SAWING CONCRETE PAVEMENT (FULL DEPTH)
-x-	TEMPORARY FENCE
—◆—	CLEAN ROOT CUTTING
- - -	CONSTRUCTION LIMITS
- - -	EXISTING RIGHT-OF-WAY
- - -	EXISTING PERMANENT EASEMENT
- - -	PROPOSED RIGHT-OF-WAY
- - -	TEMPORARY EASEMENT
- - -	PERMANENT EASEMENT
—	AREAS OF ENVIRONMENTAL SENSITIVITY



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour
TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

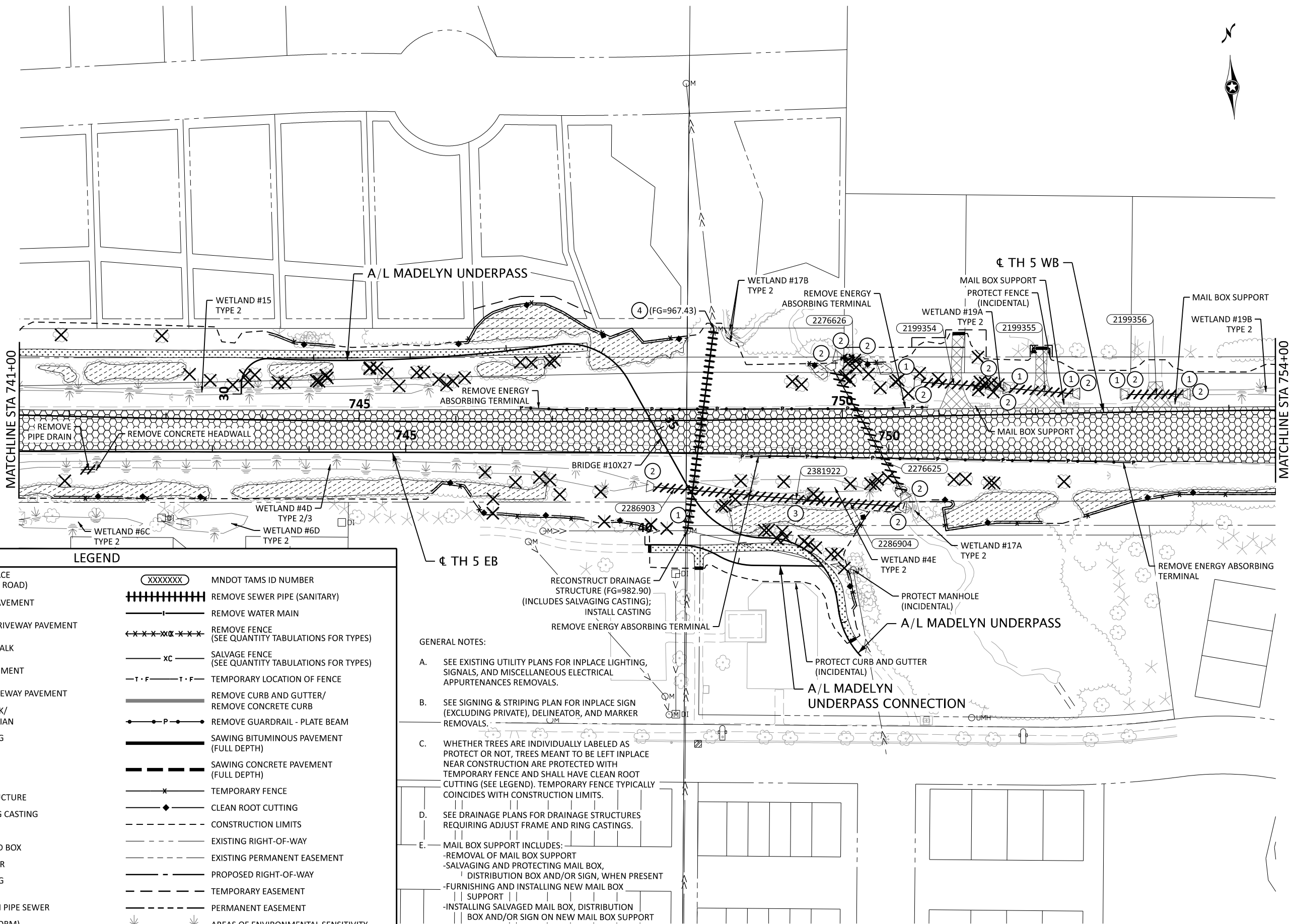
DESIGNED TAL
DRAWN TAL
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014, S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001
TH 5 RECONSTRUCTION
REMOVAL PLANS

0T4M00197_pen.tbl
pdf-B and W.pltcf
11:11:14 AM
H:\CACO\0T4M00197\CAD\ORD\CACO-0T4M00197\plans\Removal\cd1002124_180rem005.dgn

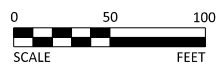
triciala
5/12/2025

LEGEND			
	MILL BITUMINOUS SURFACE (1.5" FOR TRAIL; 2.0" FOR ROAD)		MNDOT TAMS ID NUMBER
	REMOVE BITUMINOUS PAVEMENT		REMOVE SEWER PIPE (SANITARY)
	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		REMOVE WATER MAIN
	REMOVE BITUMINOUS WALK		REMOVE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
	REMOVE CONCRETE PAVEMENT		SALVAGE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
	REMOVE CONCRETE DRIVEWAY PAVEMENT		TEMPORARY LOCATION OF FENCE
	REMOVE CONCRETE WALK/ REMOVE CONCRETE MEDIAN		REMOVE CURB AND GUTTER/ REMOVE CONCRETE CURB
	CLEARING AND GRUBBING (ACRE)		REMOVE GUARDRAIL - PLATE BEAM
	REMOVE GUIDE POST		SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
	REMOVE PIPE APRON		SAWING CONCRETE PAVEMENT (FULL DEPTH)
	REMOVE DRAINAGE STRUCTURE		TEMPORARY FENCE
	ADJUST FRAME AND RING CASTING		CLEAN ROOT CUTTING
	REMOVE HYDRANT		CONSTRUCTION LIMITS
	REMOVE GATE VALVE AND BOX		EXISTING RIGHT-OF-WAY
	ADJUST VALVE BOX-WATER		EXISTING PERMANENT EASEMENT
	CLEARING AND GRUBBING (EACH)		PROPOSED RIGHT-OF-WAY
	PLUG FILL AND ABANDON PIPE SEWER		TEMPORARY EASEMENT
	REMOVE SEWER PIPE (STORM)		PERMANENT EASEMENT
			AREAS OF ENVIRONMENTAL SENSITIVITY



GENERAL NOTES:

- SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
- SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
- WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
- SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
- MAIL BOX SUPPORT INCLUDES:
 - REMOVAL OF MAIL BOX SUPPORT
 - SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
 - FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
 - INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour
TRICIA ANN LATOUR
LIC. NO. 43923
DATE 03/14/2025

DESIGNED TAL
DRAWN TAL
CHECKED BAU

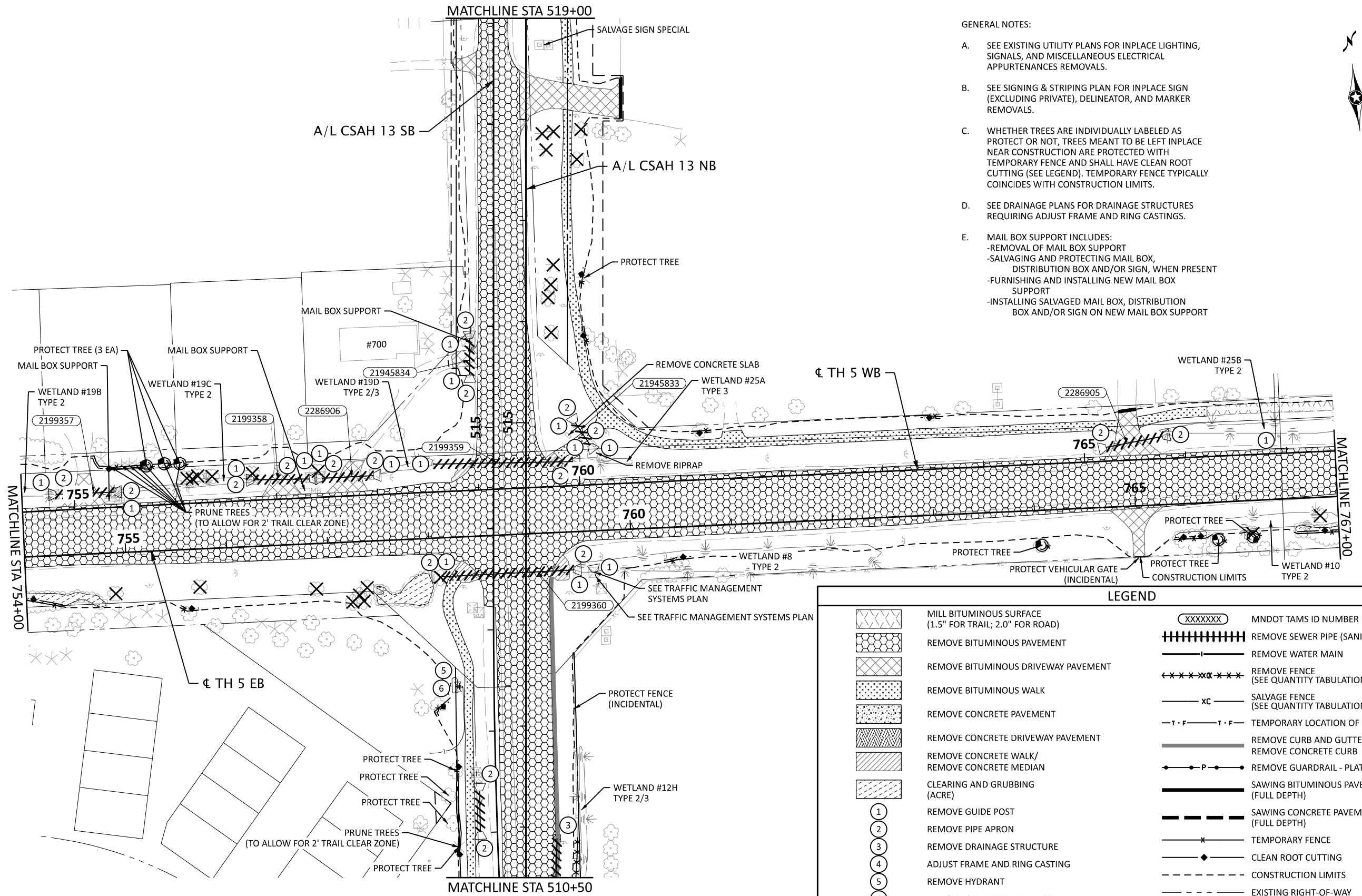
S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

REMOVAL PLANS

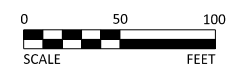
SHEET
185
OF
729

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Removal\cd1002124_180rem006.dgn
pdf-B and W.plt
11:11:15 AM
5/12/2025
Default



- GENERAL NOTES:
- A. SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
 - B. SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
 - C. WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
 - D. SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
 - E. MAIL BOX SUPPORT INCLUDES:
 - REMOVAL OF MAIL BOX SUPPORT
 - SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
 - FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
 - INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT

LEGEND	
	MILL BITUMINOUS SURFACE (1.5" FOR TRAIL; 2.0" FOR ROAD)
	REMOVE BITUMINOUS PAVEMENT
	REMOVE BITUMINOUS DRIVEWAY PAVEMENT
	REMOVE BITUMINOUS WALK
	REMOVE CONCRETE PAVEMENT
	REMOVE CONCRETE DRIVEWAY PAVEMENT
	REMOVE CONCRETE WALK/ REMOVE CONCRETE MEDIAN
	CLEARING AND GRUBBING (ACRE)
	REMOVE GUIDE POST
	REMOVE PIPE APRON
	REMOVE DRAINAGE STRUCTURE
	ADJUST FRAME AND RING CASTING
	REMOVE HYDRANT
	REMOVE GATE VALVE AND BOX
	ADJUST VALVE BOX-WATER
	CLEARING AND GRUBBING (EACH)
	PLUG FILL AND ABANDON PIPE SEWER
	REMOVE SEWER PIPE (STORM)
	MNDOT TAMS ID NUMBER
	REMOVE SEWER PIPE (SANITARY)
	REMOVE WATER MAIN
	REMOVE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
	SALVAGE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
	TEMPORARY LOCATION OF FENCE
	REMOVE CURB AND GUTTER/ REMOVE CONCRETE CURB
	REMOVE GUARDRAIL - PLATE BEAM
	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
	SAWING CONCRETE PAVEMENT (FULL DEPTH)
	TEMPORARY FENCE
	CLEAN ROOT CUTTING
	CONSTRUCTION LIMITS
	EXISTING RIGHT-OF-WAY
	EXISTING PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	TEMPORARY EASEMENT
	PERMANENT EASEMENT
	AREAS OF ENVIRONMENTAL SENSITIVITY



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour
TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

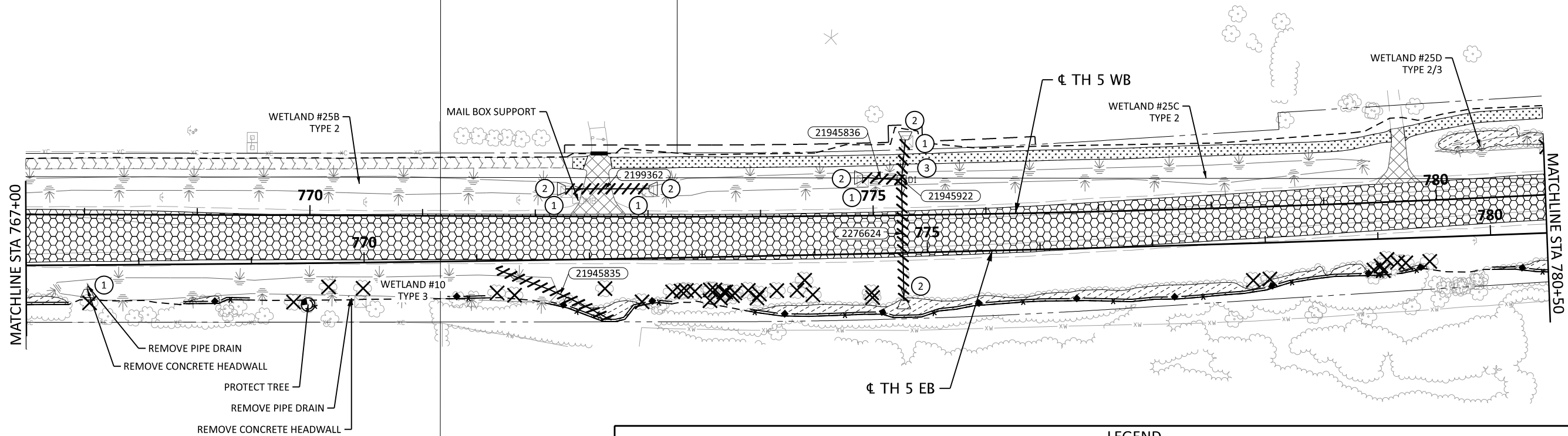
DESIGNED TAL
DRAWN TAL
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014, S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001
TH 5 RECONSTRUCTION
REMOVAL PLANS

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\Removal\cd1002124_180rem007.dgn
pdf-B and W.pltcf
11:11:17 AM

triciala
5/12/2025

Default



GENERAL NOTES:

- A. SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
- B. SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
- C. WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
- D. SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
- E. MAIL BOX SUPPORT INCLUDES:
-REMOVAL OF MAIL BOX SUPPORT
-SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
-FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
-INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT



LEGEND			
	MILL BITUMINOUS SURFACE (1.5" FOR TRAIL; 2.0" FOR ROAD)		ADJUST FRAME AND RING CASTING
	REMOVE BITUMINOUS PAVEMENT		REMOVE HYDRANT
	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		REMOVE GATE VALVE AND BOX
	REMOVE BITUMINOUS WALK		ADJUST VALVE BOX-WATER
	REMOVE CONCRETE PAVEMENT		CLEARING AND GRUBBING (EACH)
	REMOVE CONCRETE DRIVEWAY PAVEMENT		PLUG FILL AND ABANDON PIPE SEWER
	REMOVE CONCRETE WALK/ REMOVE CONCRETE MEDIAN		REMOVE SEWER PIPE (STORM)
	CLEARING AND GRUBBING (ACRE)		MNDOT TAMS ID NUMBER
	REMOVE GUIDE POST		REMOVE SEWER PIPE (SANITARY)
	REMOVE PIPE APRON		REMOVE WATER MAIN
	REMOVE DRAINAGE STRUCTURE		REMOVE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
			SALVAGE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
			TEMPORARY LOCATION OF FENCE
			REMOVE CURB AND GUTTER/ REMOVE CONCRETE CURB
			REMOVE GUARDRAIL - PLATE BEAM
			SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
			SAWING CONCRETE PAVEMENT (FULL DEPTH)
			TEMPORARY FENCE
			CLEAN ROOT CUTTING
			CONSTRUCTION LIMITS
			EXISTING RIGHT-OF-WAY
			EXISTING PERMANENT EASEMENT
			PROPOSED RIGHT-OF-WAY
			TEMPORARY EASEMENT
			PERMANENT EASEMENT
			AREAS OF ENVIRONMENTAL SENSITIVITY



**BOLTON
& MENK**

12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: BurnsVille@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour

TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

DESIGNED TAL
DRAWN TAL
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

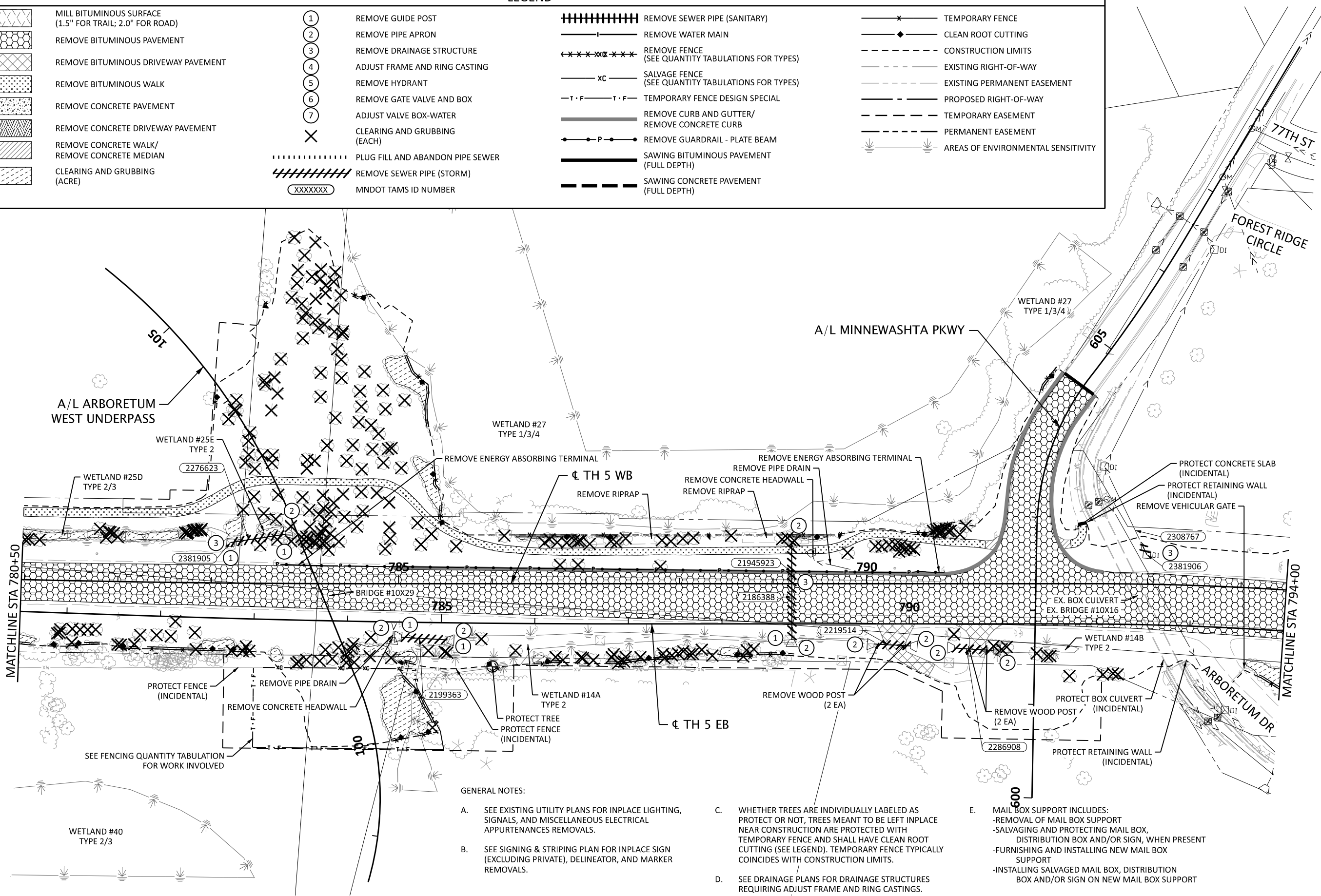
TH 5 RECONSTRUCTION

REMOVAL PLANS

SHEET
187
OF
729

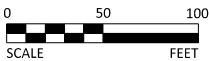
014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Removal\cd1002124_180rem008.dgn
pdf-B and W.plt
11:11:18 AM
5/12/2025

LEGEND					



GENERAL NOTES:

- A. SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
- B. SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
- C. WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
- D. SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
- E. MAIL BOX SUPPORT INCLUDES:
 - REMOVAL OF MAIL BOX SUPPORT
 - SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
 - FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
 - INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: BurnsVille@bolton-menk.com
www.bolton-menk.com

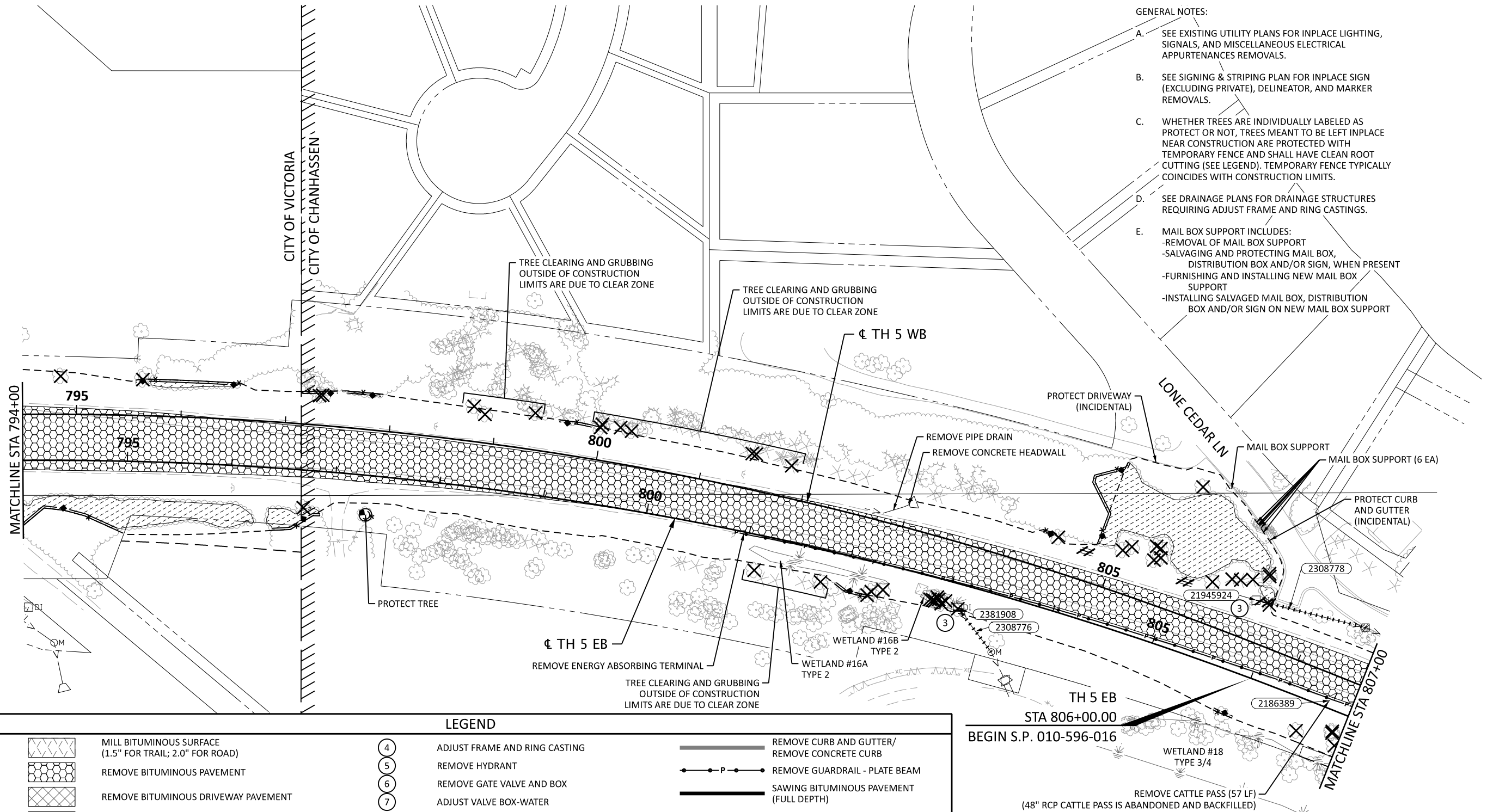
REV.	BY	DATE

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.
Tricia Ann Latour
TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

DESIGNED TAL
DRAWN TAL
CHECKED BAU

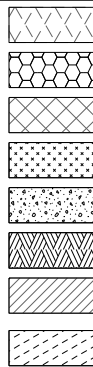
S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001
TH 5 RECONSTRUCTION
REMOVAL PLANS

OT4M00197_pen.tbl
pdf-B and W.pltcf
11:11:19 AM
triciala
5/12/2025



- GENERAL NOTES:
- SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
 - SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
 - WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
 - SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
 - MAIL BOX SUPPORT INCLUDES:
 - REMOVAL OF MAIL BOX SUPPORT
 - SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
 - FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
 - INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT

LEGEND



MILL BITUMINOUS SURFACE
(1.5" FOR TRAIL; 2.0" FOR ROAD)

REMOVE BITUMINOUS PAVEMENT

REMOVE BITUMINOUS DRIVEWAY PAVEMENT

REMOVE BITUMINOUS WALK

REMOVE CONCRETE PAVEMENT

REMOVE CONCRETE DRIVEWAY PAVEMENT

REMOVE CONCRETE WALK/
REMOVE CONCRETE MEDIAN

CLEARING AND GRUBBING
(ACRE)

- REMOVE GUIDE POST
- REMOVE PIPE APRON
- REMOVE DRAINAGE STRUCTURE

- 4
- 5
- 6
- 7

ADJUST FRAME AND RING CASTING

REMOVE HYDRANT

REMOVE GATE VALVE AND BOX

ADJUST VALVE BOX-WATER

CLEARING AND GRUBBING
(EACH)

PLUG FILL AND ABANDON PIPE SEWER

REMOVE SEWER PIPE (STORM)

MNDOT TAMS ID NUMBER
(XXXXXXX)

REMOVE SEWER PIPE (SANITARY)

REMOVE WATER MAIN

REMOVE FENCE
(SEE QUANTITY TABULATIONS FOR TYPES)

SALVAGE FENCE
(SEE QUANTITY TABULATIONS FOR TYPES)

TEMPORARY LOCATION OF FENCE

REMOVE CURB AND GUTTER/
REMOVE CONCRETE CURB

REMOVE GUARDRAIL - PLATE BEAM

SAWING BITUMINOUS PAVEMENT
(FULL DEPTH)

SAWING CONCRETE PAVEMENT
(FULL DEPTH)

TEMPORARY FENCE

CLEAN ROOT CUTTING

CONSTRUCTION LIMITS

EXISTING RIGHT-OF-WAY

EXISTING PERMANENT EASEMENT

PROPOSED RIGHT-OF-WAY

TEMPORARY EASEMENT

PERMANENT EASEMENT

AREAS OF ENVIRONMENTAL SENSITIVITY



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: BurnsVille@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour

TRICIA ANN LATOUR
LIC. NO. 43923
DATE 03/14/2025

DESIGNED
TAL
DRAWN
TAL
CHECKED
BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

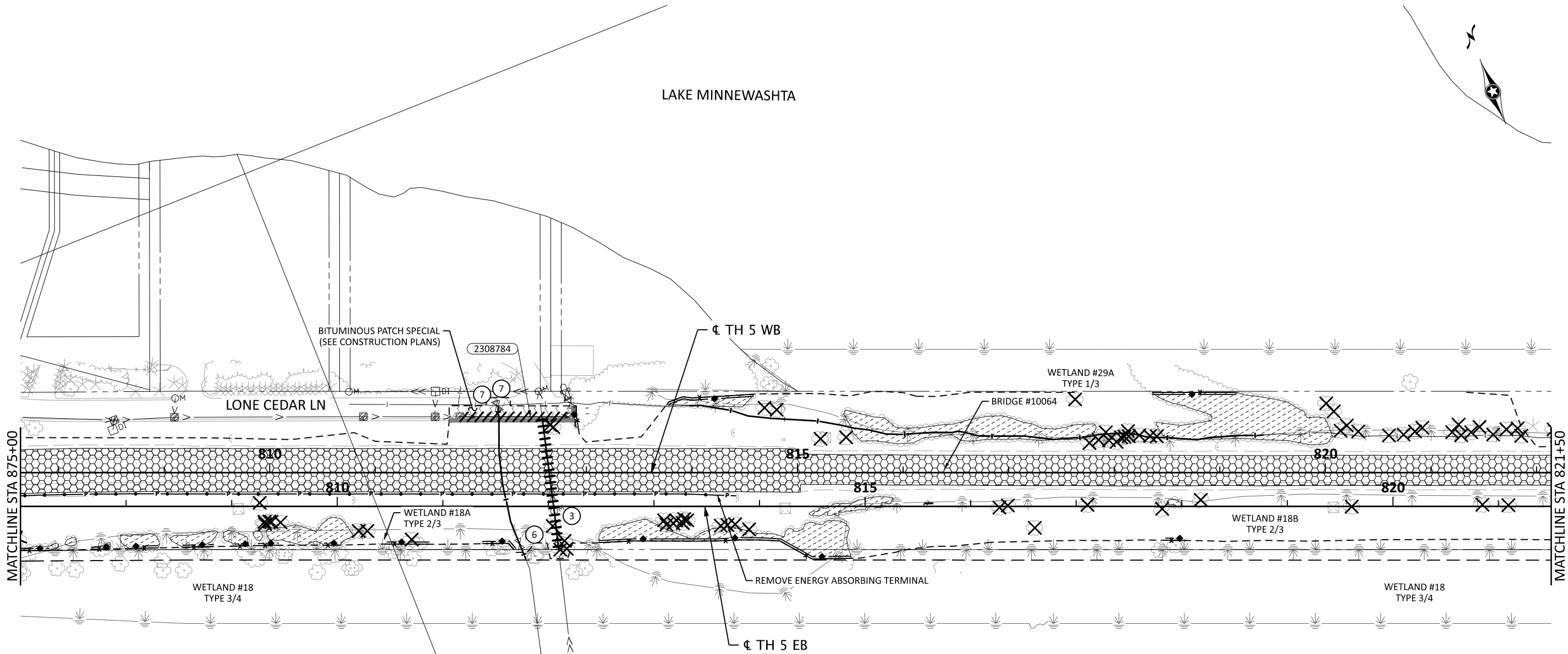
REMOVAL PLANS

SHEET
189
OF
729

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\Removal\014M00197\plans\Removal\014M00197_180rem010.dgn
pdf-B and W.plt
11:11:20 AM

triciala
5/12/2025

Default



GENERAL NOTES:

- A. SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
- B. SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
- C. WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
- D. SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
- E. MAIL BOX SUPPORT INCLUDES:
-REMOVAL OF MAIL BOX SUPPORT
-SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
-FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
-INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT

LEGEND			
	MILL BITUMINOUS SURFACE (1.5" FOR TRAIL; 2.0" FOR ROAD)		ADJUST FRAME AND RING CASTING
	REMOVE BITUMINOUS PAVEMENT		REMOVE HYDRANT
	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		REMOVE GATE VALVE AND BOX
	REMOVE BITUMINOUS WALK		ADJUST VALVE BOX-WATER
	REMOVE CONCRETE PAVEMENT		CLEARING AND GRUBBING (EACH)
	REMOVE CONCRETE DRIVEWAY PAVEMENT		PLUG FILL AND ABANDON PIPE SEWER
	REMOVE CONCRETE WALK/ REMOVE CONCRETE MEDIAN		REMOVE SEWER PIPE (STORM)
	CLEARING AND GRUBBING (ACRE)		MNDOT TAMS ID NUMBER
	REMOVE GUIDE POST		REMOVE SEWER PIPE (SANITARY)
	REMOVE PIPE APRON		REMOVE WATER MAIN
	REMOVE DRAINAGE STRUCTURE		REMOVE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
			SALVAGE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
			TEMPORARY LOCATION OF FENCE
			REMOVE CURB AND GUTTER/ REMOVE CONCRETE CURB
			REMOVE GUARDRAIL - PLATE BEAM
			SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
			SAWING CONCRETE PAVEMENT (FULL DEPTH)
			TEMPORARY FENCE
			CLEAN ROOT CUTTING
			CONSTRUCTION LIMITS
			EXISTING RIGHT-OF-WAY
			EXISTING PERMANENT EASEMENT
			PROPOSED RIGHT-OF-WAY
			TEMPORARY EASEMENT
			PERMANENT EASEMENT
			AREAS OF ENVIRONMENTAL SENSITIVITY



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour
TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

DESIGNED
TAL
DRAWN
TAL
CHECKED
BAU

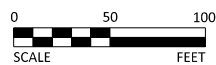
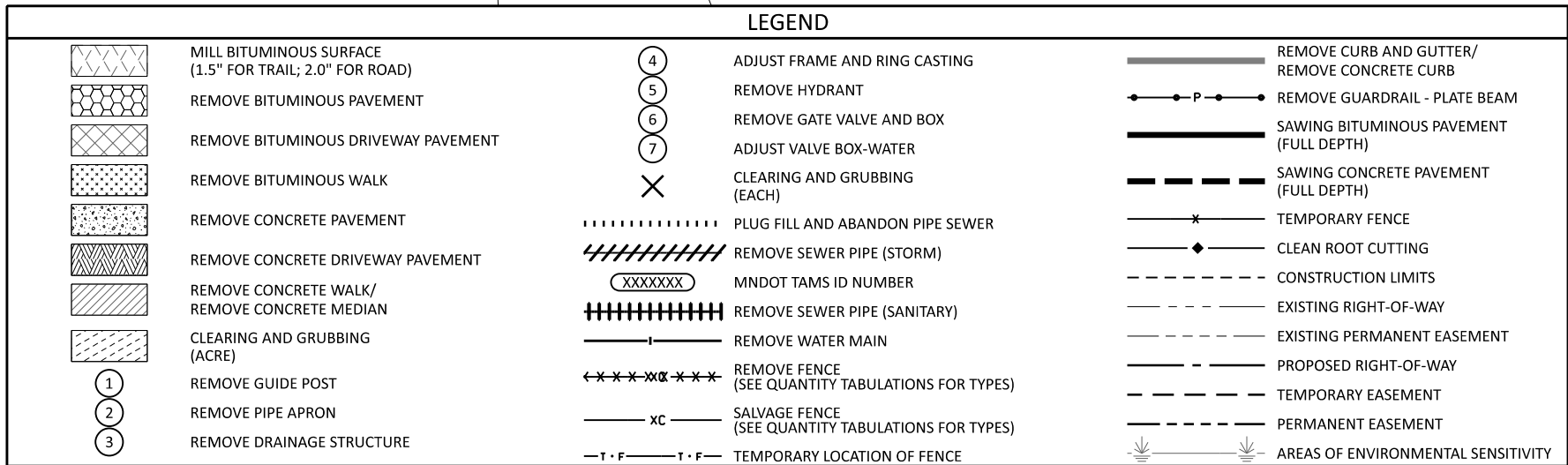
S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

REMOVAL PLANS

SHEET
190
OF
729

- A. SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
- B. SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
- C. WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
- D. SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
- E. MAIL BOX SUPPORT INCLUDES:
 - REMOVAL OF MAIL BOX SUPPORT
 - SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
 - FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
 - INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burnsville@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

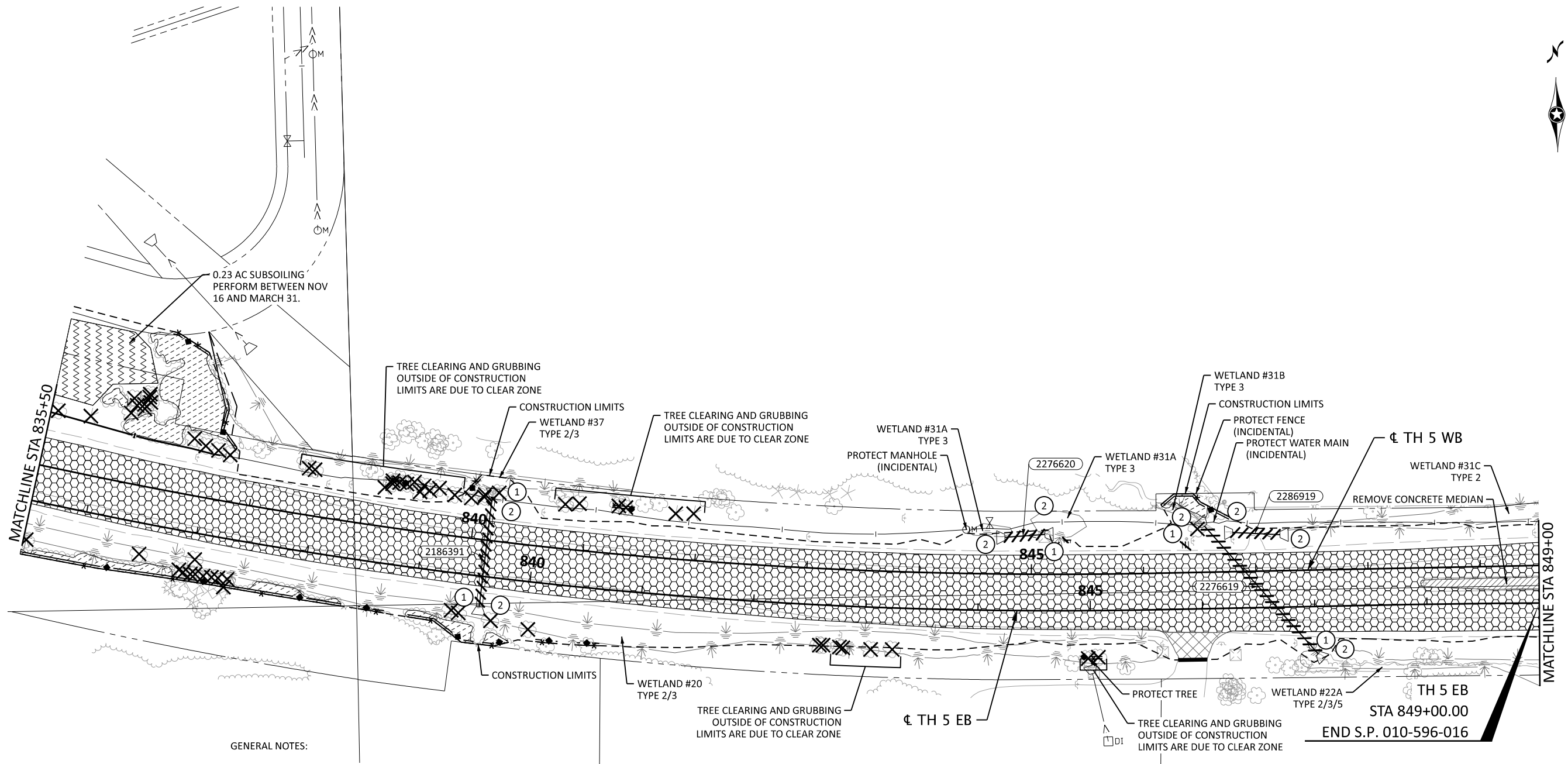
DESIGNED
TAL
DRAWN
TAL
CHECKED
BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

REMOVAL PLANS

SHEET
91
OF
29



GENERAL NOTES:

- A. SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
- B. SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
- C. WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
- D. SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
- E. MAIL BOX SUPPORT INCLUDES:
-REMOVAL OF MAIL BOX SUPPORT
-SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
-FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
-INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT

LEGEND			
	MILL BITUMINOUS SURFACE (1.5" FOR TRAIL; 2.0" FOR ROAD)		ADJUST FRAME AND RING CASTING
	REMOVE BITUMINOUS PAVEMENT		REMOVE HYDRANT
	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		REMOVE GATE VALVE AND BOX
	REMOVE BITUMINOUS WALK		ADJUST VALVE BOX-WATER
	REMOVE CONCRETE PAVEMENT		CLEARING AND GRUBBING (EACH)
	REMOVE CONCRETE DRIVEWAY PAVEMENT		PLUG FILL AND ABANDON PIPE SEWER
	REMOVE CONCRETE WALK/ REMOVE CONCRETE MEDIAN		REMOVE SEWER PIPE (STORM)
	CLEARING AND GRUBBING (ACRE)		MNDOT TAMS ID NUMBER
	REMOVE GUIDE POST		REMOVE SEWER PIPE (SANITARY)
	REMOVE PIPE APRON		REMOVE WATER MAIN
	REMOVE DRAINAGE STRUCTURE		REMOVE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
			SALVAGE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
			TEMPORARY LOCATION OF FENCE
			REMOVE CURB AND GUTTER/ REMOVE CONCRETE CURB
			REMOVE GUARDRAIL - PLATE BEAM
			SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
			SAWING CONCRETE PAVEMENT (FULL DEPTH)
			TEMPORARY FENCE
			CLEAN ROOT CUTTING
			CONSTRUCTION LIMITS
			EXISTING RIGHT-OF-WAY
			EXISTING PERMANENT EASEMENT
			PROPOSED RIGHT-OF-WAY
			TEMPORARY EASEMENT
			PERMANENT EASEMENT
			AREAS OF ENVIRONMENTAL SENSITIVITY



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burnsville@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour
TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

DESIGNED TAL
DRAWN TAL
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

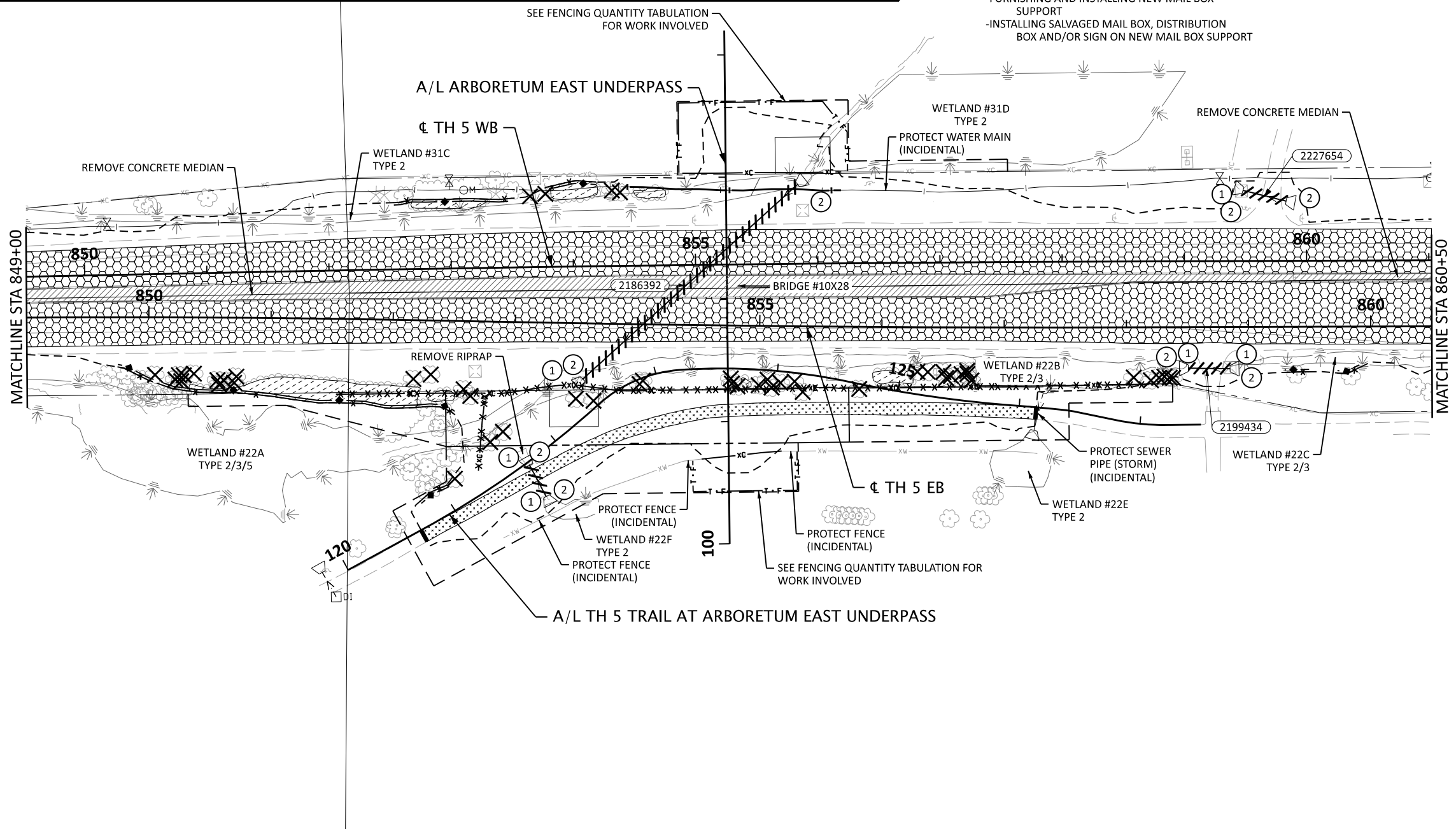
TH 5 RECONSTRUCTION

REMOVAL PLANS

LEGEND					
	MILL BITUMINOUS SURFACE (1.5" FOR TRAIL; 2.0" FOR ROAD)		ADJUST FRAME AND RING CASTING		REMOVE CURB AND GUTTER/ REMOVE CONCRETE CURB
	REMOVE BITUMINOUS PAVEMENT		REMOVE HYDRANT		REMOVE GUARDRAIL - PLATE BEAM
	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		REMOVE GATE VALVE AND BOX		SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
	REMOVE BITUMINOUS WALK		ADJUST VALVE BOX-WATER		SAWING CONCRETE PAVEMENT (FULL DEPTH)
	REMOVE CONCRETE PAVEMENT		CLEARING AND GRUBBING (EACH)		TEMPORARY FENCE
	REMOVE CONCRETE DRIVEWAY PAVEMENT		PLUG FILL AND ABANDON PIPE SEWER		CLEAN ROOT CUTTING
	REMOVE CONCRETE WALK/ REMOVE CONCRETE MEDIAN		REMOVE SEWER PIPE (STORM)		CONSTRUCTION LIMITS
	REMOVE CONCRETE WALK/ REMOVE CONCRETE MEDIAN		MNDOT TAMS ID NUMBER		EXISTING RIGHT-OF-WAY
	CLEARING AND GRUBBING (ACRE)		REMOVE SEWER PIPE (SANITARY)		EXISTING PERMANENT EASEMENT
	REMOVE GUIDE POST		REMOVE WATER MAIN		PROPOSED RIGHT-OF-WAY
	REMOVE PIPE APRON		REMOVE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)		TEMPORARY EASEMENT
	REMOVE DRAINAGE STRUCTURE		SALVAGE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)		PERMANENT EASEMENT
			TEMPORARY LOCATION OF FENCE		AREAS OF ENVIRONMENTAL SENSITIVITY

GENERAL NOTES:

- A. SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
- B. SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
- C. WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
- D. SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
- E. MAIL BOX SUPPORT INCLUDES:
-REMOVAL OF MAIL BOX SUPPORT
-SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
-FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
-INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT



**BOLTON
& MENK**

12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burnsville@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour

TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

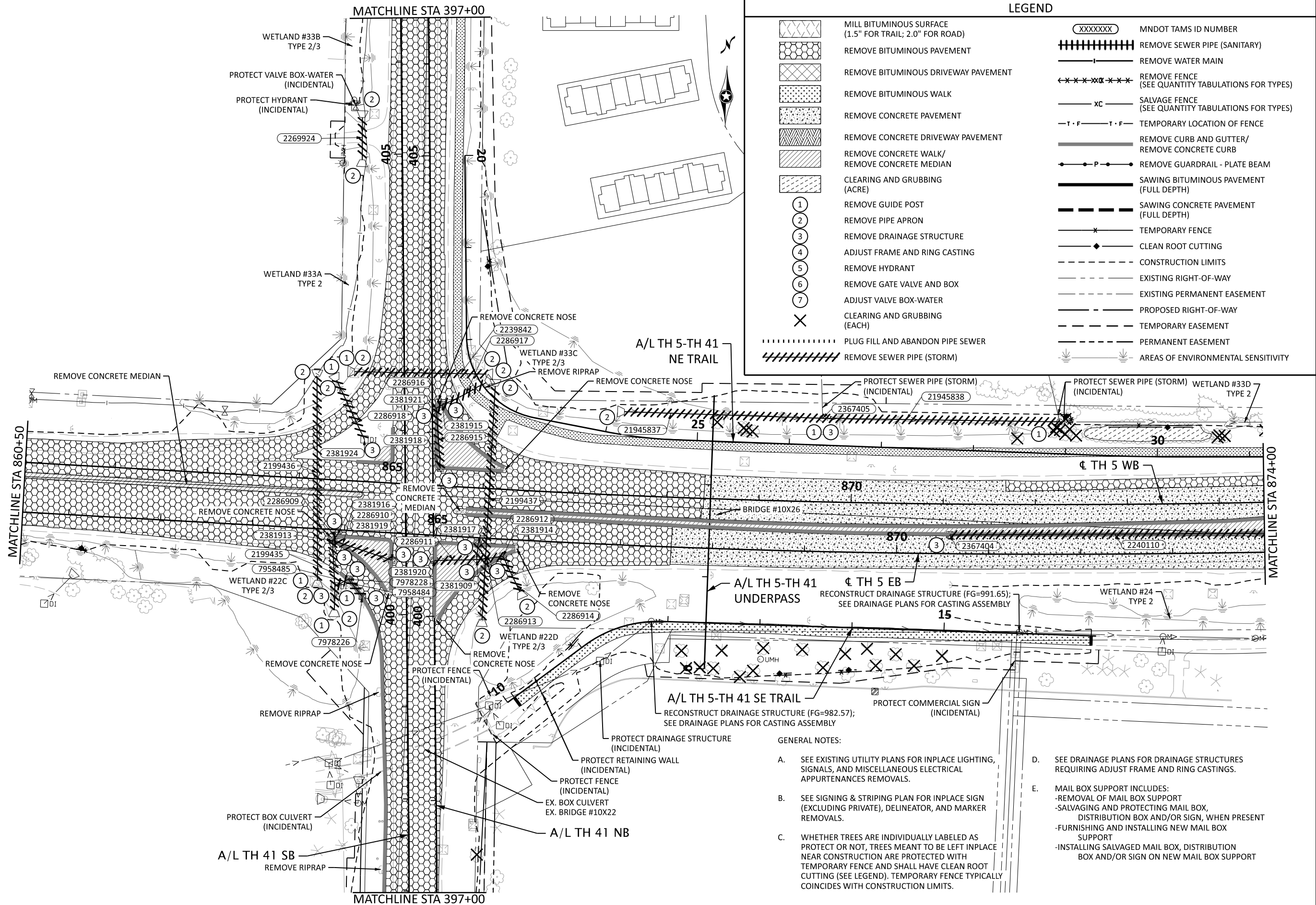
DESIGNED TAL
DRAWN TAL
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

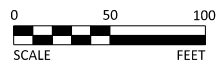
TH 5 RECONSTRUCTION

REMOVAL PLANS

SHEET
193
OF
729



- GENERAL NOTES:
- A. SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
 - B. SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
 - C. WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
 - D. SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
 - E. MAIL BOX SUPPORT INCLUDES:
 - REMOVAL OF MAIL BOX SUPPORT
 - SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
 - FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
 - INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burnsville@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

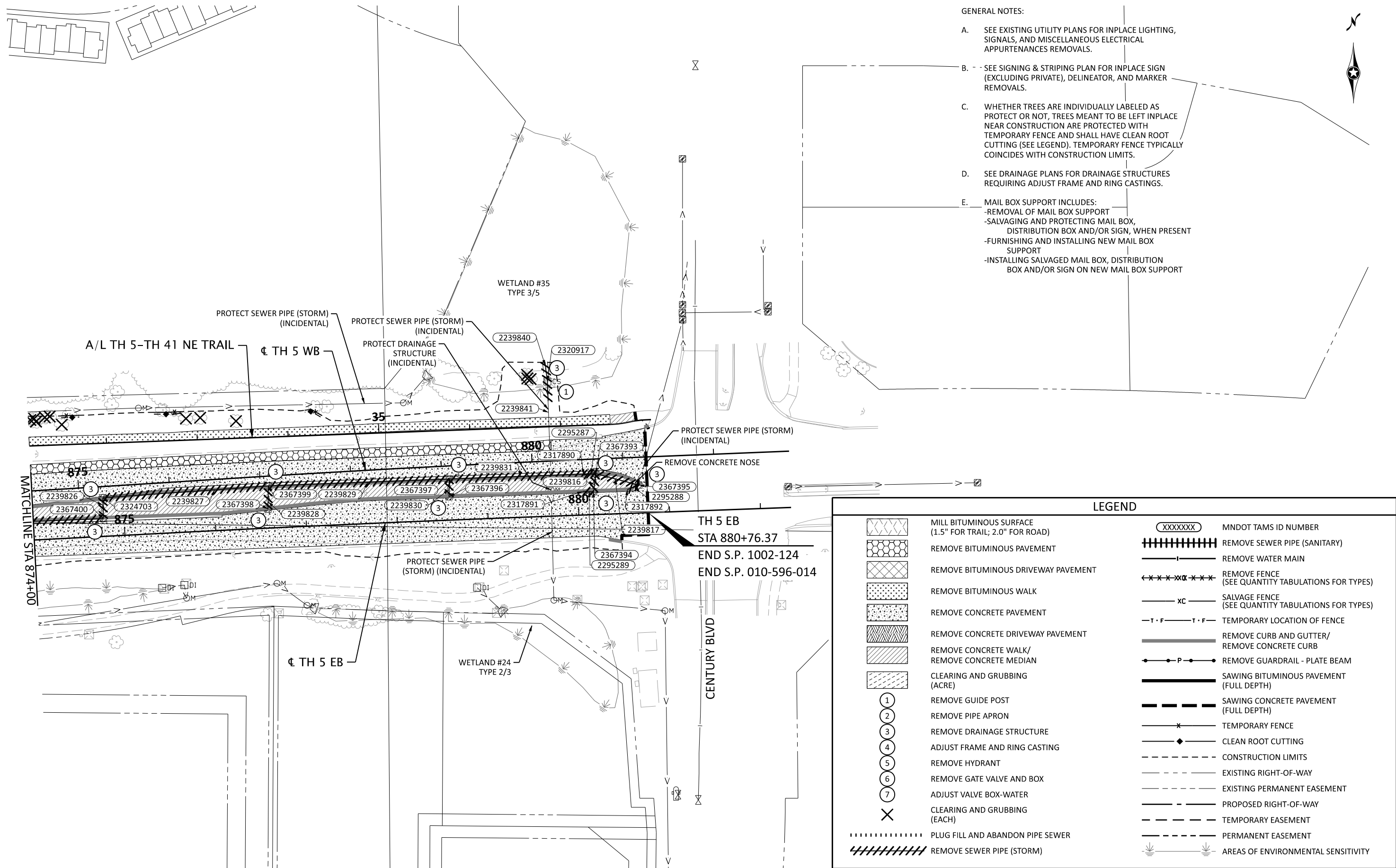
Tricia Ann Latour
TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

DESIGNED TAL
DRAWN TAL
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

REMOVAL PLANS

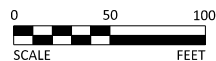


GENERAL NOTES:

- A. SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
- B. SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
- C. WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
- D. SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
- E. MAIL BOX SUPPORT INCLUDES:
-REMOVAL OF MAIL BOX SUPPORT
-SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
-FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
-INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT

LEGEND

	MILL BITUMINOUS SURFACE (1.5" FOR TRAIL; 2.0" FOR ROAD)		MNDOT TAMS ID NUMBER
	REMOVE BITUMINOUS PAVEMENT		REMOVE SEWER PIPE (SANITARY)
	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		REMOVE WATER MAIN
	REMOVE BITUMINOUS WALK		REMOVE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
	REMOVE CONCRETE PAVEMENT		SALVAGE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
	REMOVE CONCRETE DRIVEWAY PAVEMENT		TEMPORARY LOCATION OF FENCE
	REMOVE CONCRETE WALK/ REMOVE CONCRETE MEDIAN		REMOVE CURB AND GUTTER/ REMOVE CONCRETE CURB
	CLEARING AND GRUBBING (ACRE)		REMOVE GUARDRAIL - PLATE BEAM
	REMOVE GUIDE POST		SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
	REMOVE PIPE APRON		SAWING CONCRETE PAVEMENT (FULL DEPTH)
	REMOVE DRAINAGE STRUCTURE		TEMPORARY FENCE
	ADJUST FRAME AND RING CASTING		CLEAN ROOT CUTTING
	REMOVE HYDRANT		CONSTRUCTION LIMITS
	REMOVE GATE VALVE AND BOX		EXISTING RIGHT-OF-WAY
	ADJUST VALVE BOX-WATER		EXISTING PERMANENT EASEMENT
	CLEARING AND GRUBBING (EACH)		PROPOSED RIGHT-OF-WAY
	PLUG FILL AND ABANDON PIPE SEWER		TEMPORARY EASEMENT
	REMOVE SEWER PIPE (STORM)		PERMANENT EASEMENT
			AREAS OF ENVIRONMENTAL SENSITIVITY



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burnsville@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour
TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

DESIGNED
TAL
DRAWN
TAL
CHECKED
BAU

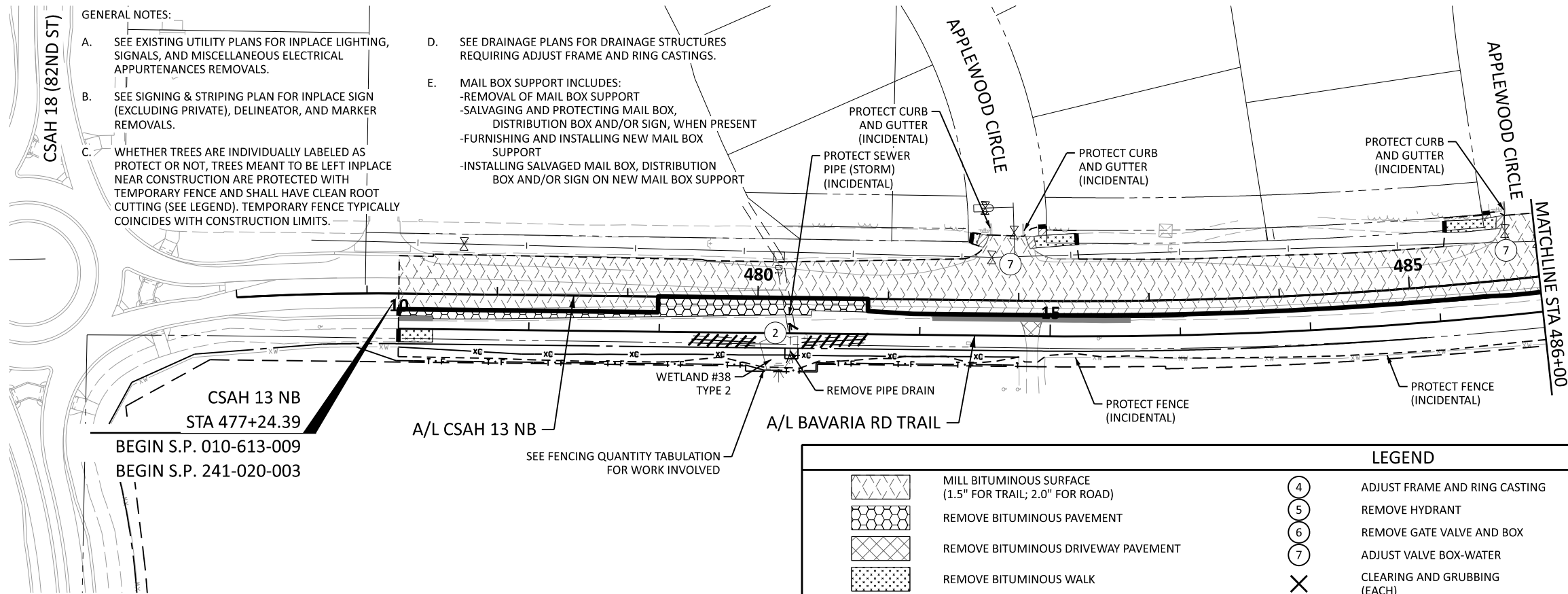
S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

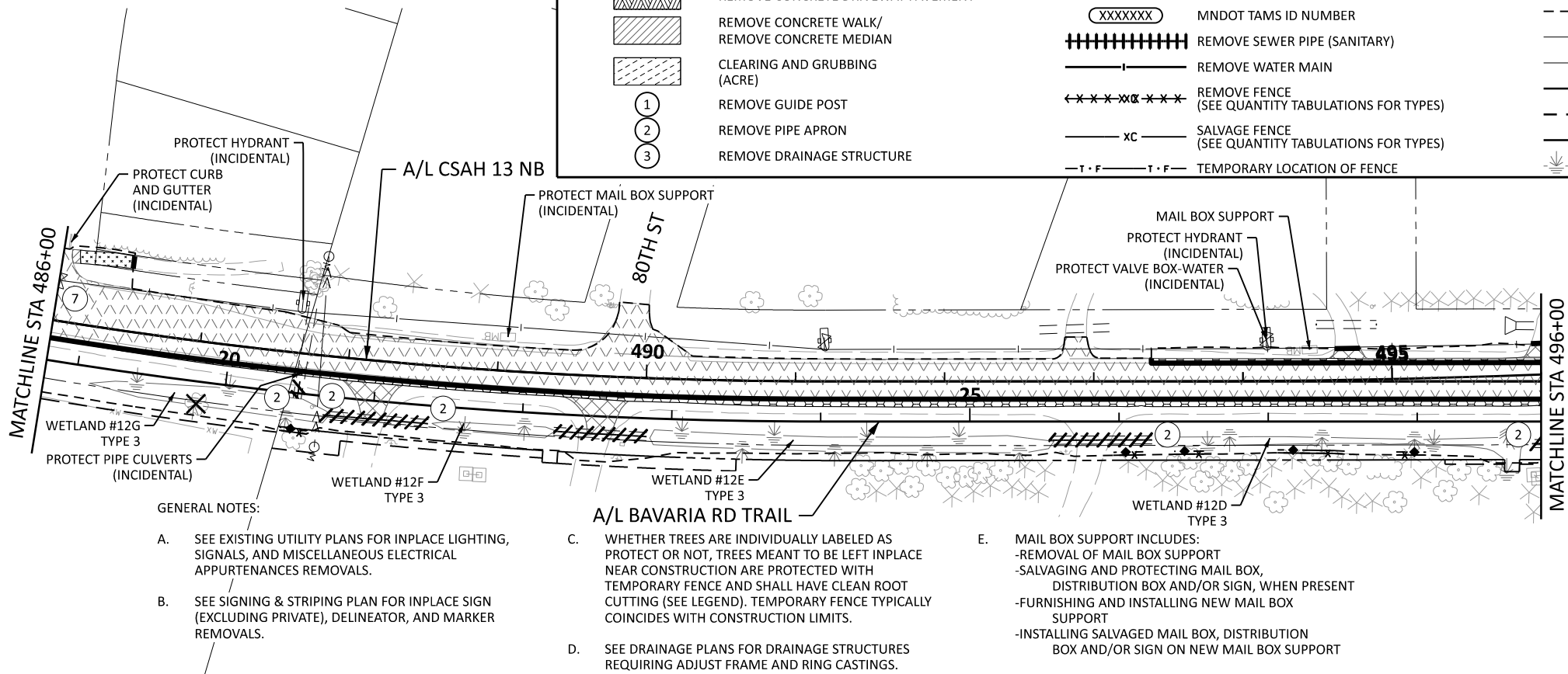
REMOVAL PLANS

SHEET
195
OF
729

014M00197_pen.tbl
H:\COCO\014M00197\CAD\ORD\Removal\cd1002124_180rem016.dgn
pdf-B and W.plt
11:11:30 AM
5/12/2025
Default



LEGEND			
	MILL BITUMINOUS SURFACE (1.5" FOR TRAIL; 2.0" FOR ROAD)		ADJUST FRAME AND RING CASTING
	REMOVE BITUMINOUS PAVEMENT		REMOVE HYDRANT
	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		REMOVE GATE VALVE AND BOX
	REMOVE BITUMINOUS WALK		ADJUST VALVE BOX-WATER
	REMOVE CONCRETE PAVEMENT		CLEARING AND GRUBBING (EACH)
	REMOVE CONCRETE DRIVEWAY PAVEMENT		PLUG FILL AND ABANDON PIPE SEWER
	REMOVE CONCRETE WALK/REMOVE CONCRETE MEDIAN		REMOVE SEWER PIPE (STORM)
	CLEARING AND GRUBBING (ACRE)		MNDOT TAMS ID NUMBER
	REMOVE GUIDE POST		REMOVE SEWER PIPE (SANITARY)
	REMOVE PIPE APRON		REMOVE WATER MAIN
	REMOVE DRAINAGE STRUCTURE		REMOVE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
			SALVAGE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
			TEMPORARY LOCATION OF FENCE
			REMOVE CURB AND GUTTER/REMOVE CONCRETE CURB
			REMOVE GUARDRAIL - PLATE BEAM
			SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
			SAWING CONCRETE PAVEMENT (FULL DEPTH)
			TEMPORARY FENCE
			CLEAN ROOT CUTTING
			CONSTRUCTION LIMITS
			EXISTING RIGHT-OF-WAY
			EXISTING PERMANENT EASEMENT
			PROPOSED RIGHT-OF-WAY
			TEMPORARY EASEMENT
			PERMANENT EASEMENT
			AREAS OF ENVIRONMENTAL SENSITIVITY



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour

TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

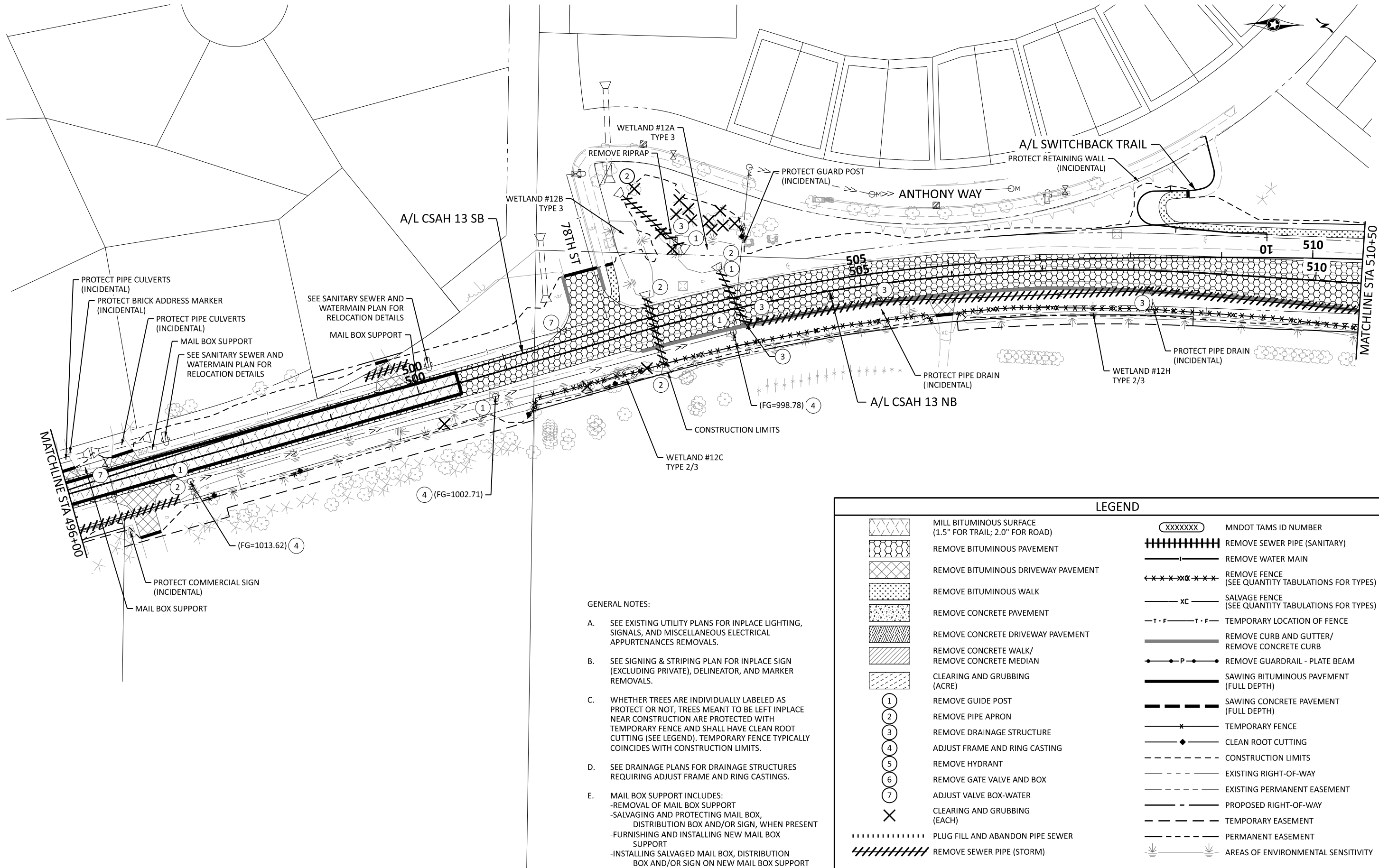
DESIGNED
TAL
DRAWN
TAL
CHECKED
BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

REMOVAL PLANS

SHEET
196
OF
729

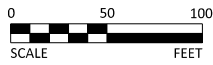


GENERAL NOTES:

- A. SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
- B. SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
- C. WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
- D. SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
- E. MAIL BOX SUPPORT INCLUDES:
 - REMOVAL OF MAIL BOX SUPPORT
 - SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
 - FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
 - INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT

LEGEND

	MILL BITUMINOUS SURFACE (1.5" FOR TRAIL; 2.0" FOR ROAD)		MNDOT TAMS ID NUMBER
	REMOVE BITUMINOUS PAVEMENT		REMOVE SEWER PIPE (SANITARY)
	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		REMOVE WATER MAIN
	REMOVE BITUMINOUS WALK		REMOVE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
	REMOVE CONCRETE PAVEMENT		SALVAGE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
	REMOVE CONCRETE DRIVEWAY PAVEMENT		TEMPORARY LOCATION OF FENCE
	REMOVE CONCRETE WALK/ REMOVE CONCRETE MEDIAN		REMOVE CURB AND GUTTER/ REMOVE CONCRETE CURB
	CLEARING AND GRUBBING (ACRE)		REMOVE GUARDRAIL - PLATE BEAM
	REMOVE GUIDE POST		SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
	REMOVE PIPE APRON		SAWING CONCRETE PAVEMENT (FULL DEPTH)
	REMOVE DRAINAGE STRUCTURE		TEMPORARY FENCE
	ADJUST FRAME AND RING CASTING		CLEAN ROOT CUTTING
	REMOVE HYDRANT		CONSTRUCTION LIMITS
	REMOVE GATE VALVE AND BOX		EXISTING RIGHT-OF-WAY
	ADJUST VALVE BOX-WATER		EXISTING PERMANENT EASEMENT
	CLEARING AND GRUBBING (EACH)		PROPOSED RIGHT-OF-WAY
	PLUG FILL AND ABANDON PIPE SEWER		TEMPORARY EASEMENT
	REMOVE SEWER PIPE (STORM)		PERMANENT EASEMENT
			AREAS OF ENVIRONMENTAL SENSITIVITY



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

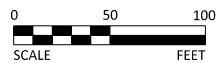
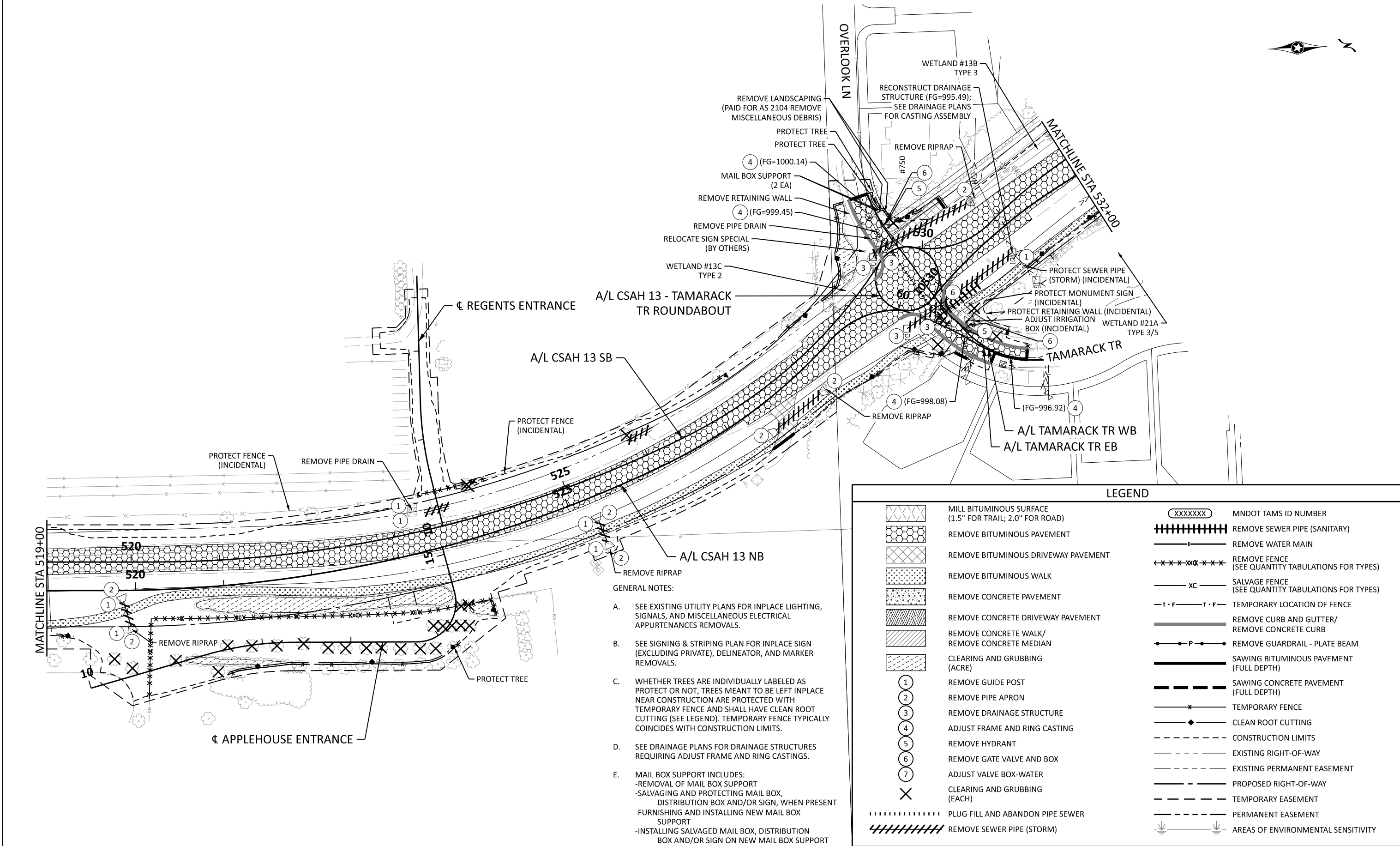
Tricia Ann Latour
TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

DESIGNED TAL
DRAWN TAL
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

REMOVAL PLANS



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: BurnsVille@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour

TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

DESIGNED
TAL
DRAWN
TAL
CHECKED
BAU

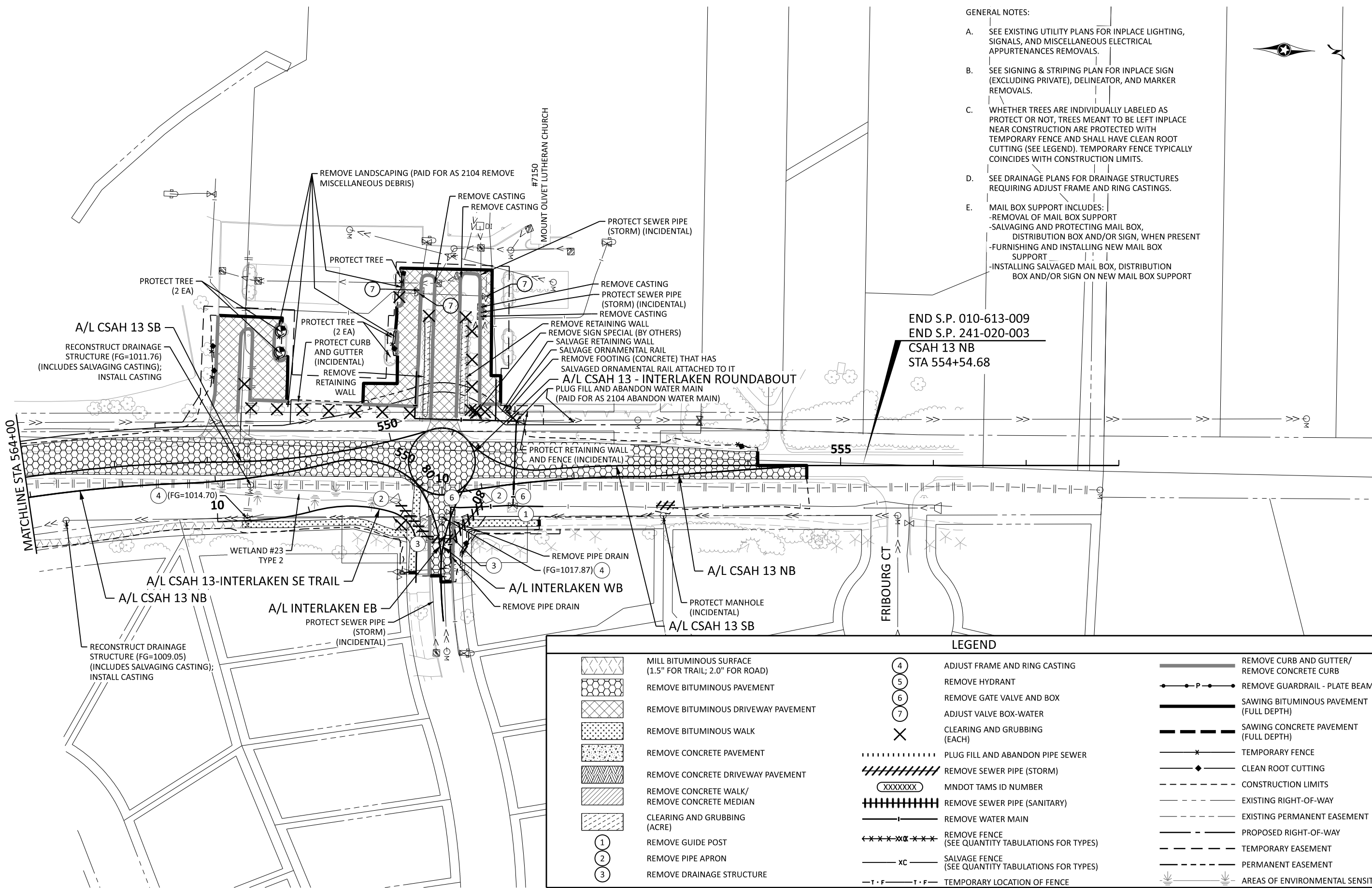
S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

REMOVAL PLANS

SHEET
198
OF
729

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Removal\cd1002124_180rem020.dgn
pdf-B and W.plt
11:11:35 AM
triciala
5/12/2025



- GENERAL NOTES:
- A. SEE EXISTING UTILITY PLANS FOR INPLACE LIGHTING, SIGNALS, AND MISCELLANEOUS ELECTRICAL APPURTENANCES REMOVALS.
 - B. SEE SIGNING & STRIPING PLAN FOR INPLACE SIGN (EXCLUDING PRIVATE), DELINEATOR, AND MARKER REMOVALS.
 - C. WHETHER TREES ARE INDIVIDUALLY LABELED AS PROTECT OR NOT, TREES MEANT TO BE LEFT INPLACE NEAR CONSTRUCTION ARE PROTECTED WITH TEMPORARY FENCE AND SHALL HAVE CLEAN ROOT CUTTING (SEE LEGEND). TEMPORARY FENCE TYPICALLY COINCIDES WITH CONSTRUCTION LIMITS.
 - D. SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURES REQUIRING ADJUST FRAME AND RING CASTINGS.
 - E. MAIL BOX SUPPORT INCLUDES:
 - REMOVAL OF MAIL BOX SUPPORT
 - SALVAGING AND PROTECTING MAIL BOX, DISTRIBUTION BOX AND/OR SIGN, WHEN PRESENT
 - FURNISHING AND INSTALLING NEW MAIL BOX SUPPORT
 - INSTALLING SALVAGED MAIL BOX, DISTRIBUTION BOX AND/OR SIGN ON NEW MAIL BOX SUPPORT

END S.P. 010-613-009
END S.P. 241-020-003
CSAH 13 NB
STA 554+54.68

LEGEND			
	MILL BITUMINOUS SURFACE (1.5" FOR TRAIL; 2.0" FOR ROAD)		ADJUST FRAME AND RING CASTING
	REMOVE BITUMINOUS PAVEMENT		REMOVE HYDRANT
	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		REMOVE GATE VALVE AND BOX
	REMOVE BITUMINOUS WALK		ADJUST VALVE BOX-WATER
	REMOVE CONCRETE PAVEMENT		CLEARING AND GRUBBING (EACH)
	REMOVE CONCRETE DRIVEWAY PAVEMENT		PLUG FILL AND ABANDON PIPE SEWER
	REMOVE CONCRETE WALK/ REMOVE CONCRETE MEDIAN		REMOVE SEWER PIPE (STORM)
	CLEARING AND GRUBBING (ACRE)		MNDOT TAMS ID NUMBER
	REMOVE GUIDE POST		REMOVE SEWER PIPE (SANITARY)
	REMOVE PIPE APRON		REMOVE WATER MAIN
	REMOVE DRAINAGE STRUCTURE		REMOVE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
			SALVAGE FENCE (SEE QUANTITY TABULATIONS FOR TYPES)
			TEMPORARY LOCATION OF FENCE
			REMOVE CURB AND GUTTER/ REMOVE CONCRETE CURB
			REMOVE GUARDRAIL - PLATE BEAM
			SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
			SAWING CONCRETE PAVEMENT (FULL DEPTH)
			TEMPORARY FENCE
			CLEAN ROOT CUTTING
			CONSTRUCTION LIMITS
			EXISTING RIGHT-OF-WAY
			EXISTING PERMANENT EASEMENT
			PROPOSED RIGHT-OF-WAY
			TEMPORARY EASEMENT
			PERMANENT EASEMENT
			AREAS OF ENVIRONMENTAL SENSITIVITY



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: BurnsVille@bolton-menk.com
www.bolton-menk.com

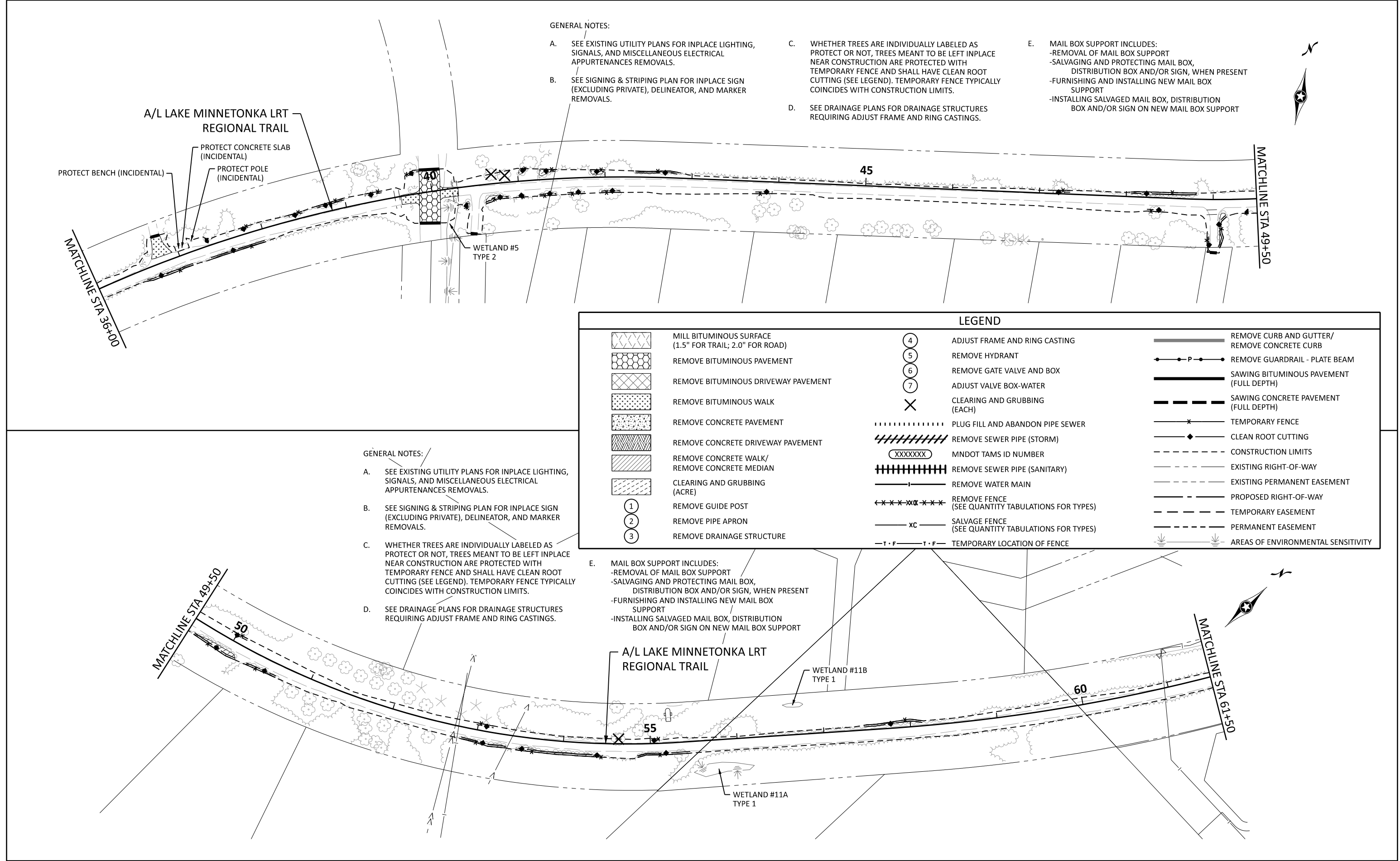
REV.	BY	DATE

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.
Tricia Ann Latour
TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

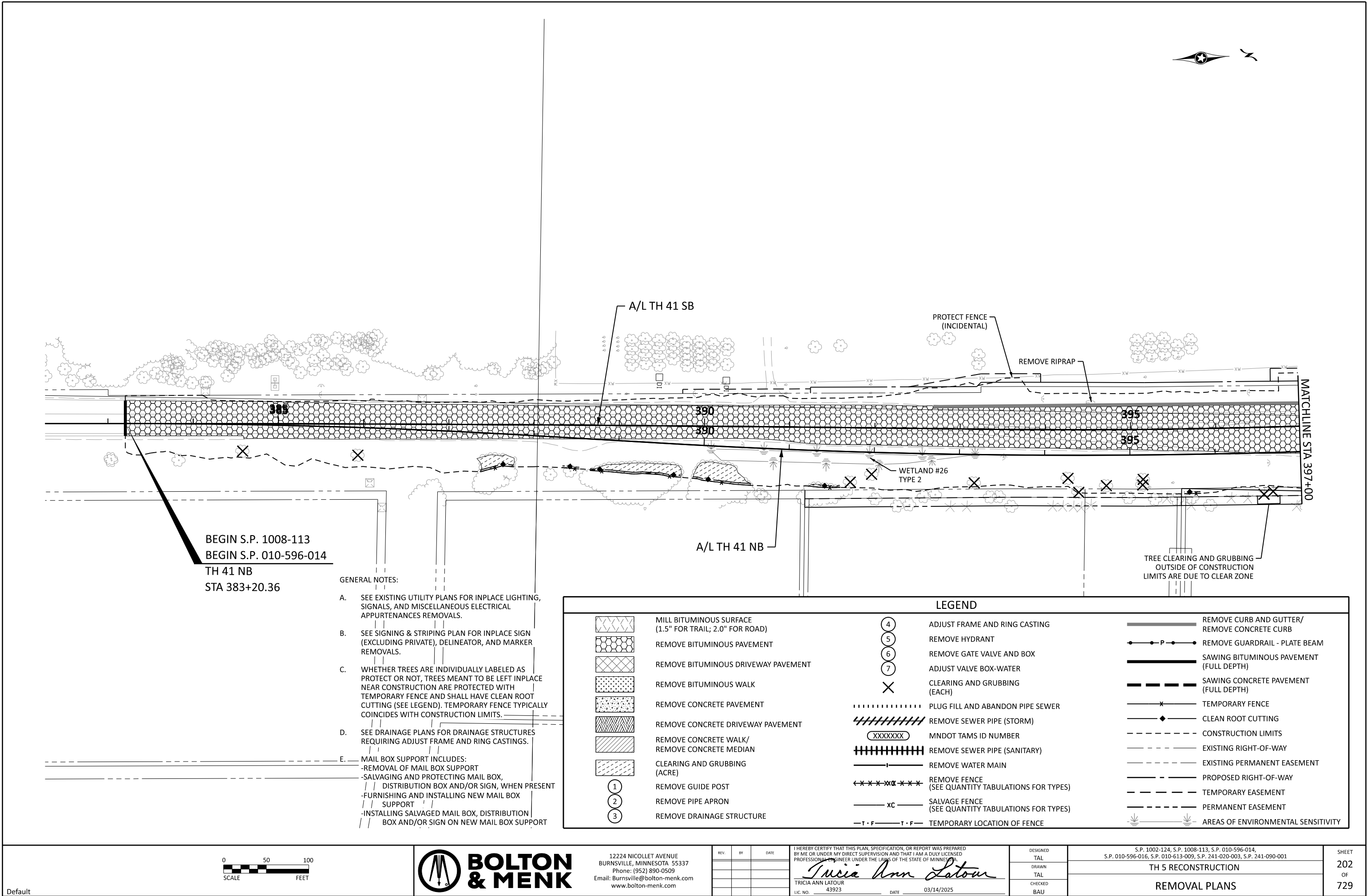
DESIGNED
TAL
DRAWN
TAL
CHECKED
BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001
TH 5 RECONSTRUCTION
REMOVAL PLANS

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Removal\cd1002124_180rem021.dgn
pdf-B and W.plt
11:11:37 AM
triciala
5/12/2025



014M00197_pen.tbl
H:\CADO\014M00197\CAD\ORD\CACO-014M00197\plans\Removal\cd1002124_180rem022.dgn
pdf-B and W.plt
11:11:38 AM
triciala
5/12/2025



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour

TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

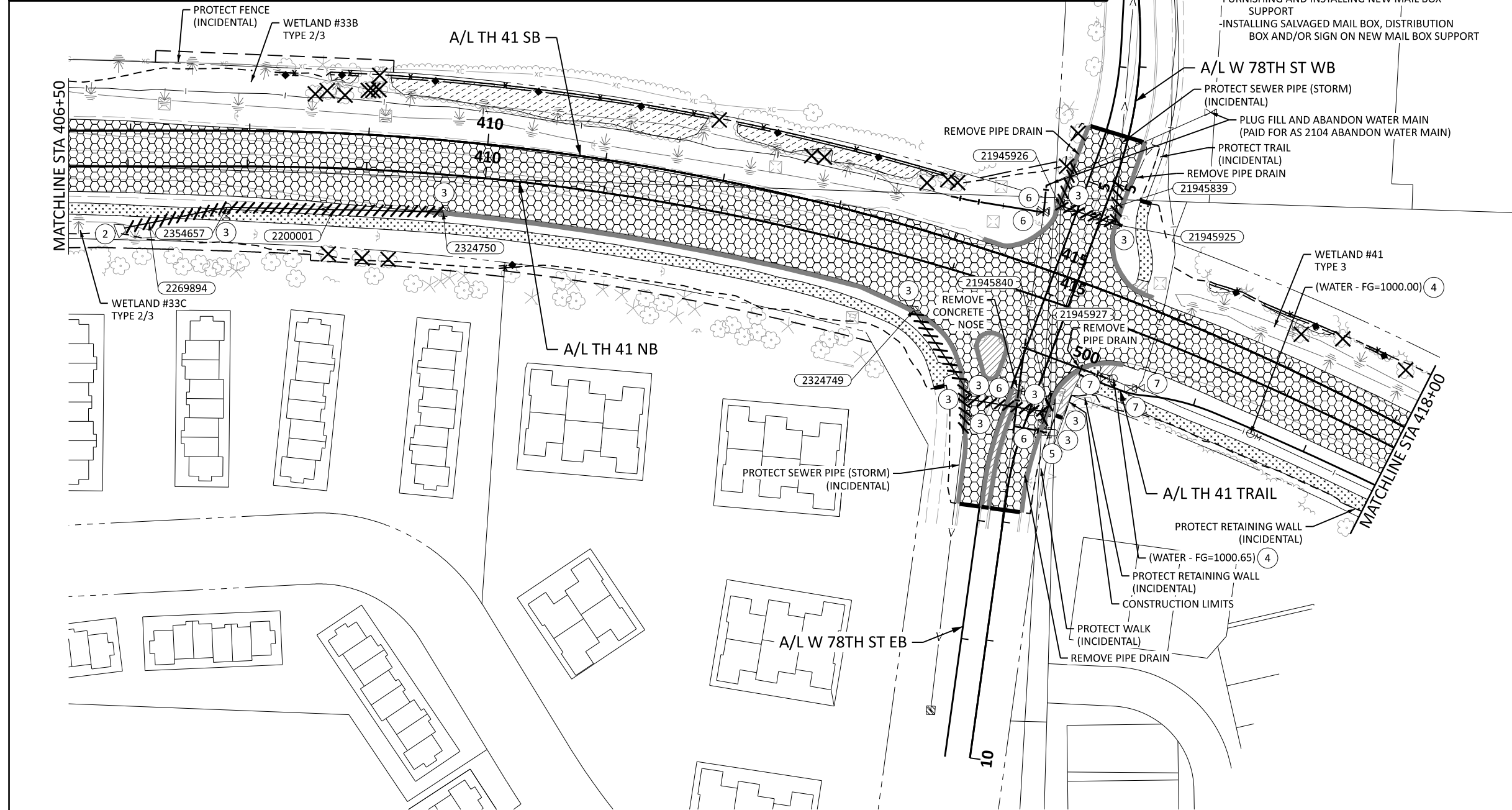
DESIGNED
TAL
DRAWN
TAL
CHECKED
BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

REMOVAL PLANS

SHEET
202
OF
729

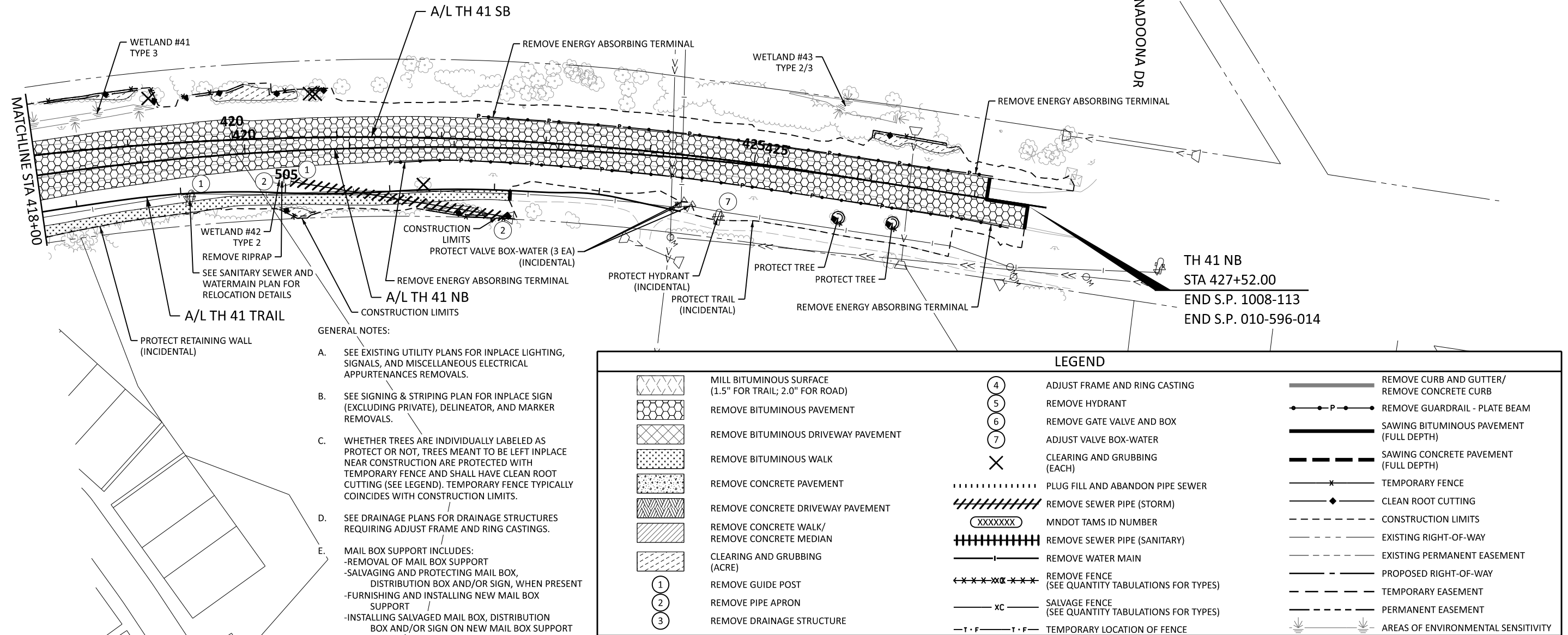


REV.	BY	DATE

TRICIA ANN LATOUR

REMOVAL PLANS

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Removal\cd1002124_180rem024.dgn
pdf-B and W.plt
11:11:40 AM
triciala
5/12/2025



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: BurnsVille@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Tricia Ann Latour
TRICIA ANN LATOUR
LIC. NO. 43923 DATE 03/14/2025

DESIGNED
TAL
DRAWN
TAL
CHECKED
BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001
TH 5 RECONSTRUCTION
REMOVAL PLANS

SHEET
204
OF
729

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Const\cd1002124_185cpp001.dgn
pdf-B and W.plt
10:03:51 AM
benul
5/8/2025

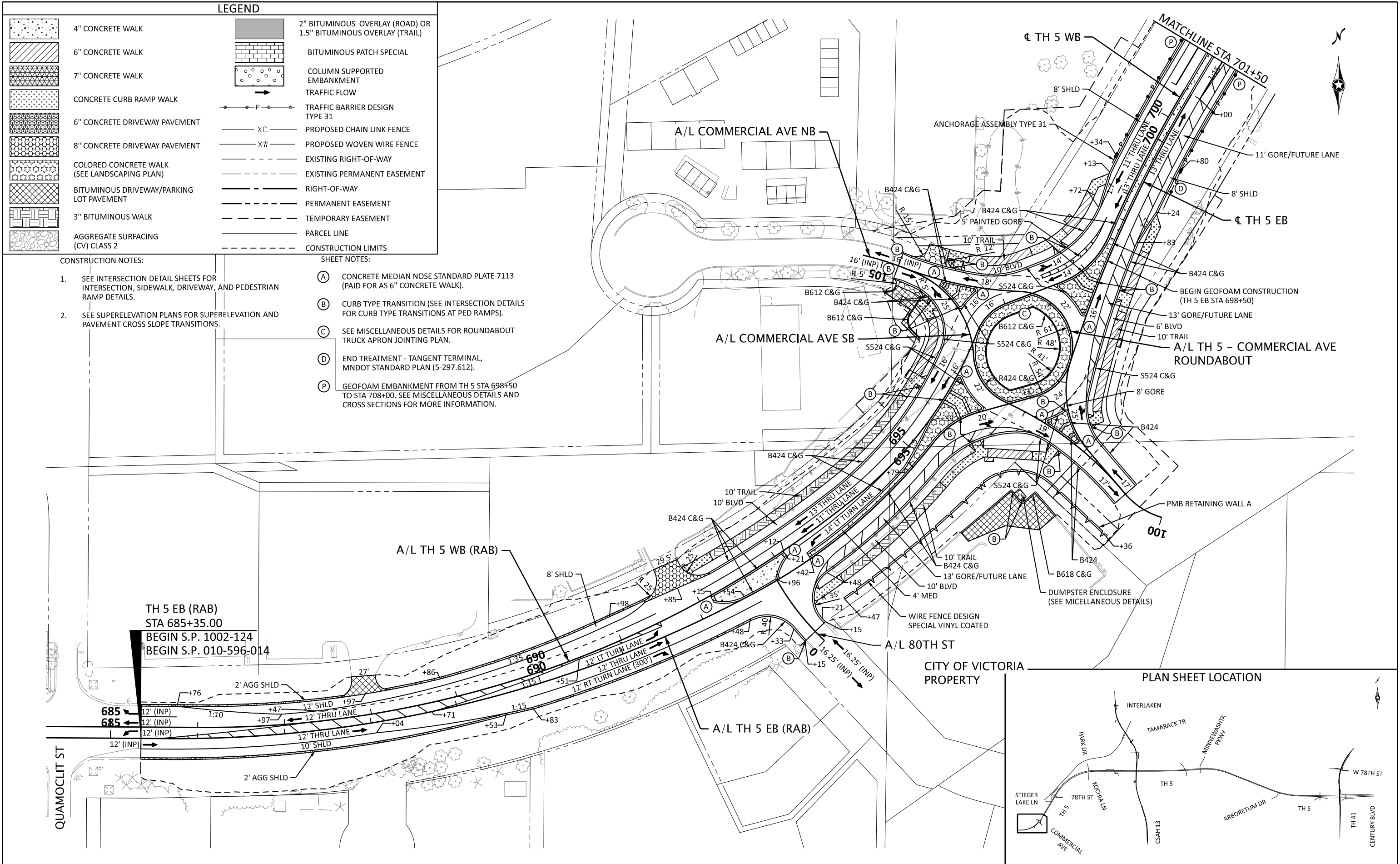
LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLOR CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS

CONSTRUCTION NOTES:

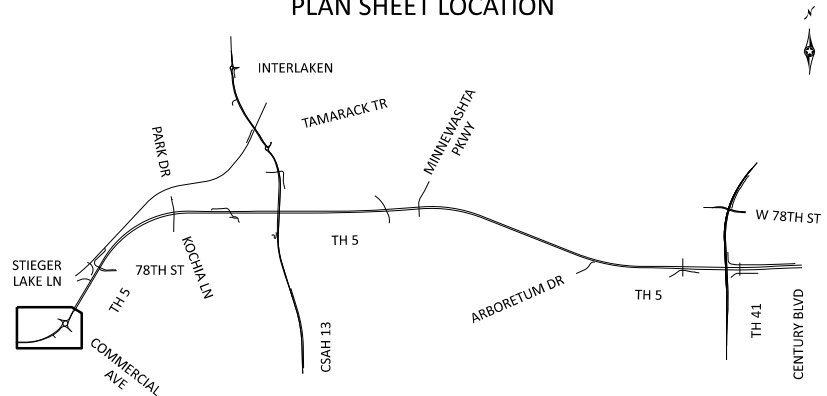
- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
- SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

SHEET NOTES:

- (A) CONCRETE MEDIAN NOSE STANDARD PLATE 7113 (PAID FOR AS 6" CONCRETE WALK).
- (B) CURB TYPE TRANSITION (SEE INTERSECTION DETAILS FOR CURB TYPE TRANSITIONS AT PED RAMP).
- (C) SEE MISCELLANEOUS DETAILS FOR ROUNDABOUT TRUCK APRON JOINTING PLAN.
- (D) END TREATMENT - TANGENT TERMINAL, MNDOT STANDARD PLAN (5-297.612).
- (P) GEOFOAM EMBANKMENT FROM TH 5 STA 698+50 TO STA 708+00. SEE MISCELLANEOUS DETAILS AND CROSS SECTIONS FOR MORE INFORMATION.



PLAN SHEET LOCATION



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED CJB
DRAWN TWB
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

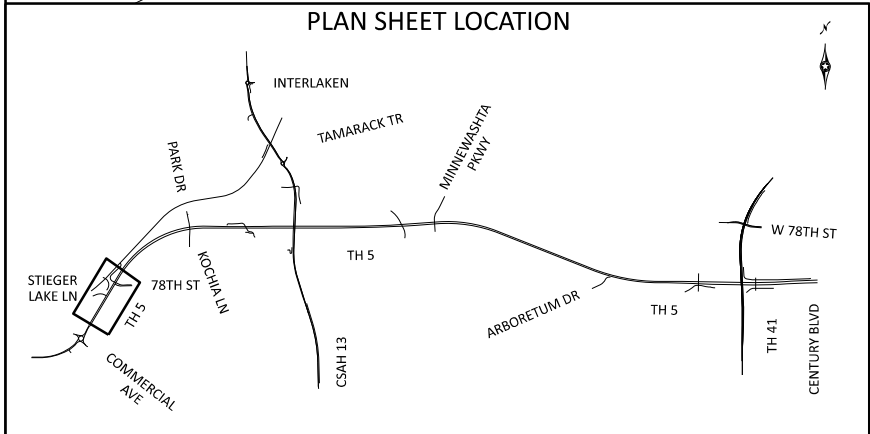
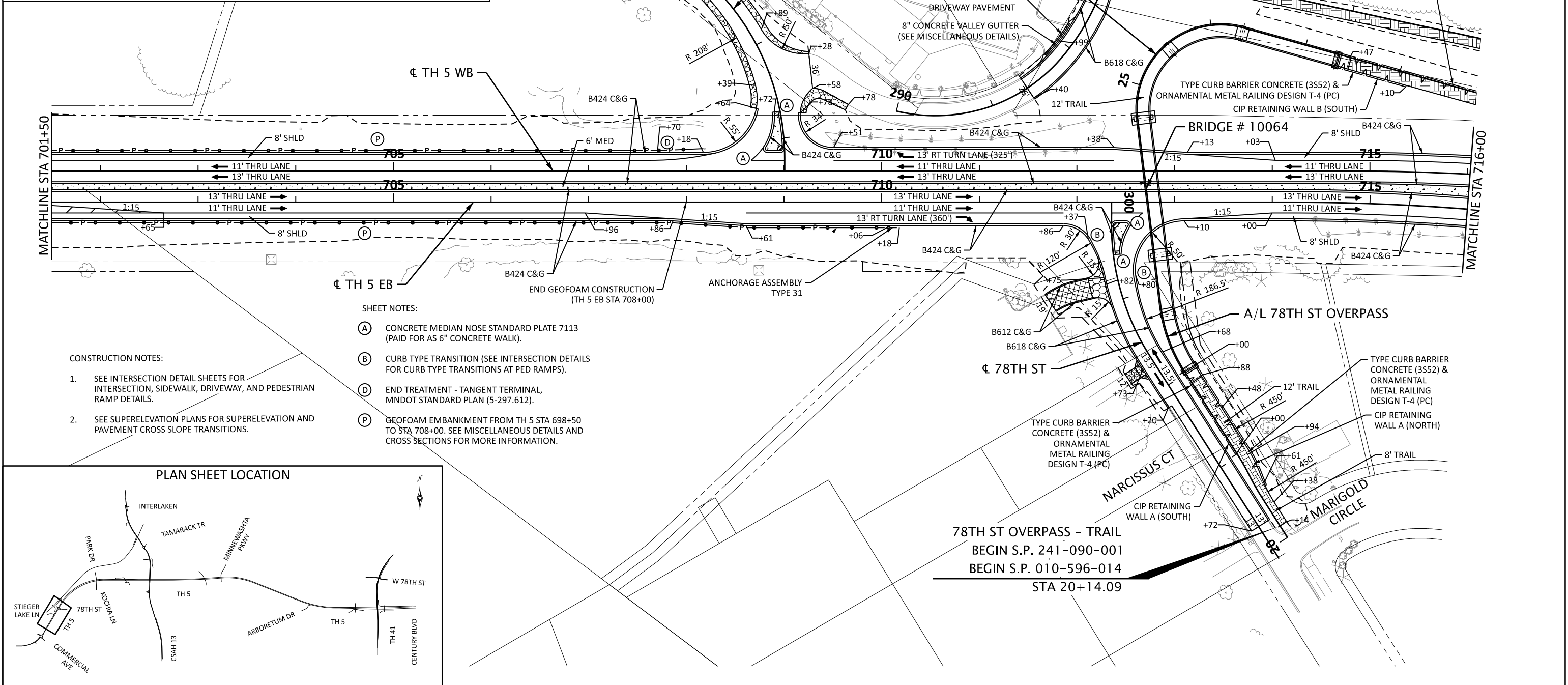
TH 5 RECONSTRUCTION

CONSTRUCTION PLANS

SHEET
205
OF
729

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Const\cd1002124_185cpp002.dgn
pdf-B and W.plt:cf
10:03:53 AM
benul
5/8/2025

LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

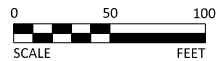
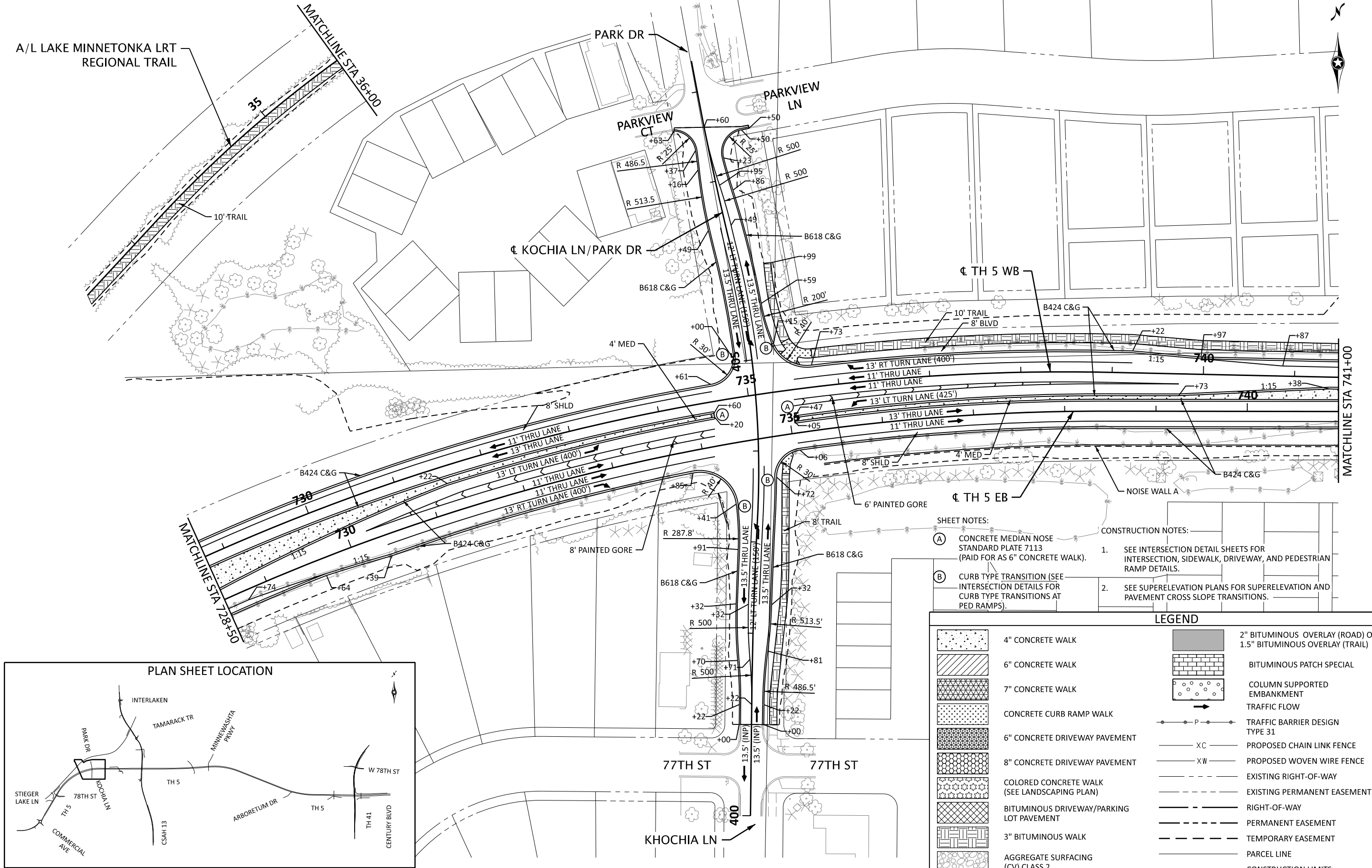
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED
BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA
Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED CJB
DRAWN TWB
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001
TH 5 RECONSTRUCTION
CONSTRUCTION PLANS

SHEET
206
OF
729

014M00197_pen.tbl
pdf-B and W.pltcf
10:03:54 AM
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Const\cd1002124_185cpp004.dgn
5/8/2025
Default



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED
CJB
DRAWN
TWB
CHECKED
BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

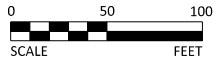
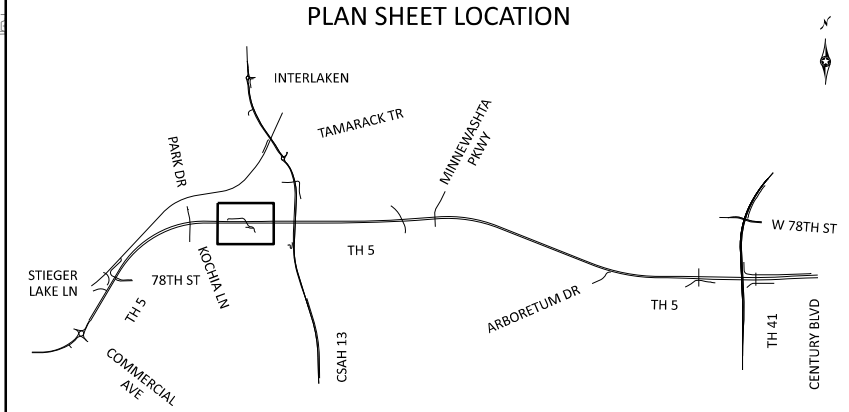
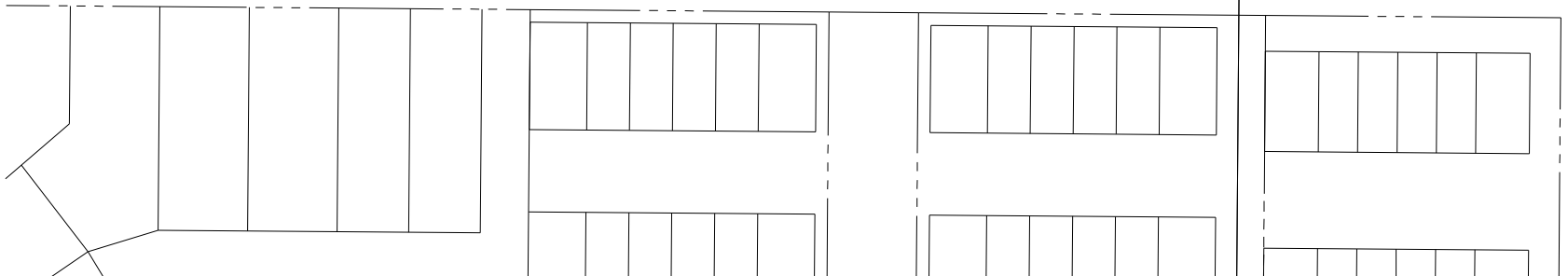
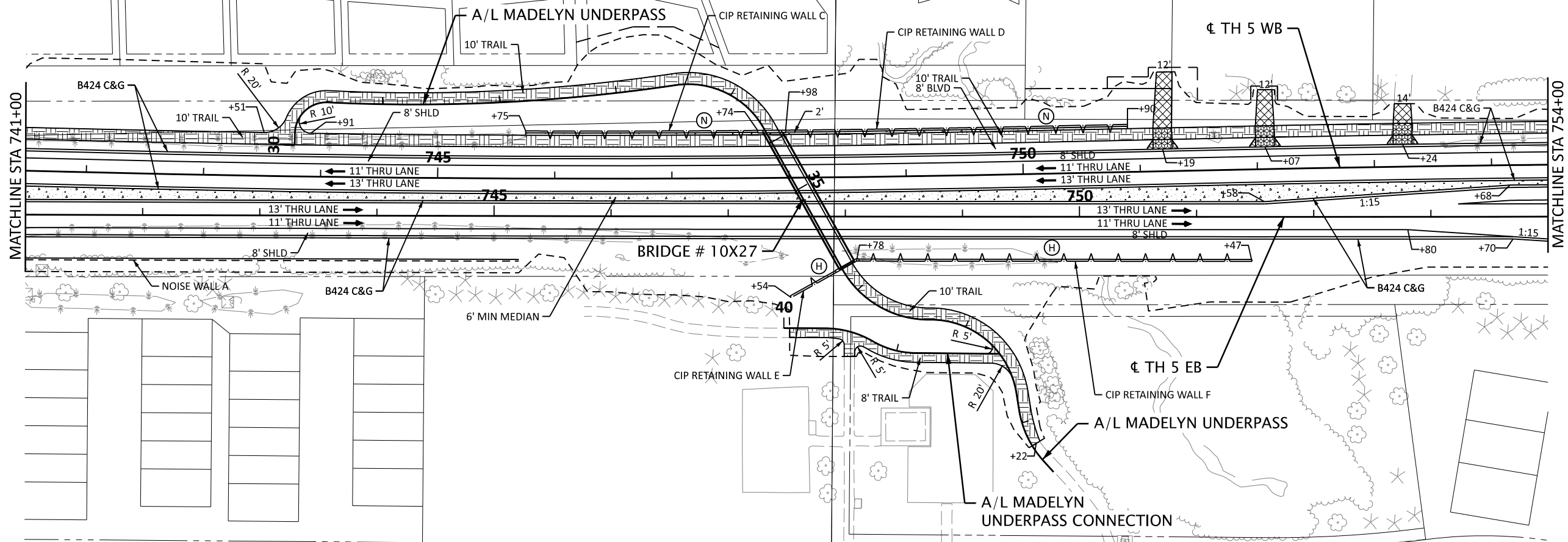
CONSTRUCTION PLANS

SHEET
208
OF
729

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\plans\Const\cd1002124_185cpp005.dgn
pdf-B and W.pltcfgr
10:03:55 AM
benul
5/8/2025

LEGEND		
	4" CONCRETE WALK	 2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK	 BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK	 COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK	 TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT	 TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT	 XC PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)	 XW PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT	 EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK	 EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2	 RIGHT-OF-WAY
		 PERMANENT EASEMENT
		 TEMPORARY EASEMENT
		 PARCEL LINE
		 CONSTRUCTION LIMITS

- CONSTRUCTION NOTES:
- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
 - SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.
- SHEET NOTES:
- (H) TYPE MOD P-1 BARRIER CONC (3S52)
 - (N) TYPE MOD P-1 BARRIER CONC (3S52) WITH MOUNTED WIRE FENCE DESIGN SPECIAL VINYL COATED



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED
CJB
DRAWN
TWB
CHECKED
BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

CONSTRUCTION PLANS

SHEET
209
OF
729

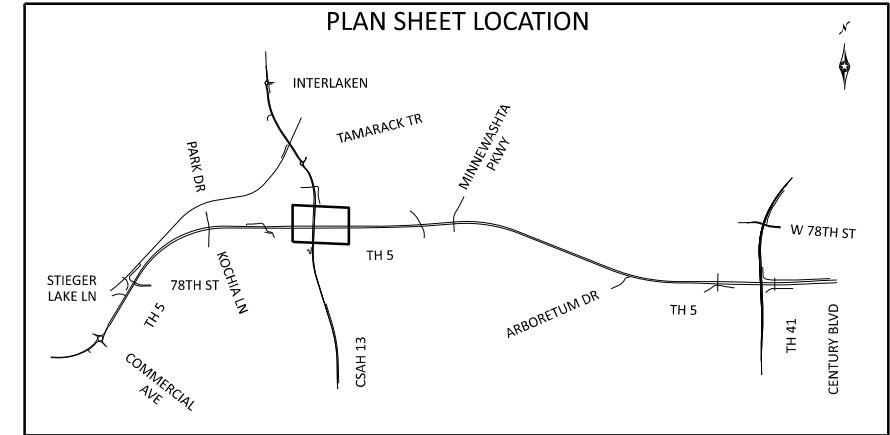
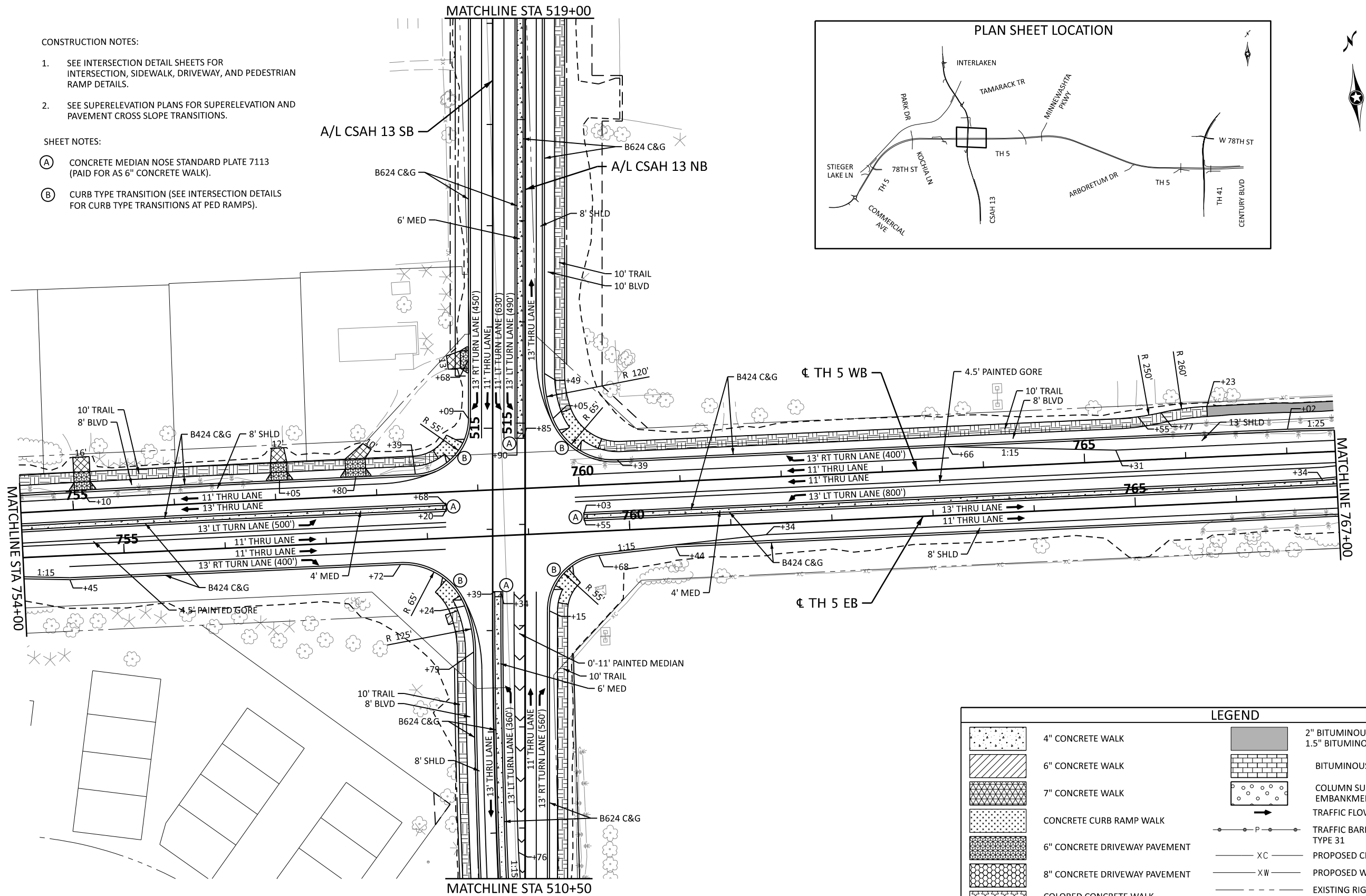
014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Const\cd1002124_185csp006.dgn
pdf-B and W.pltcfgr
10:03:56 AM
benul
5/8/2025

CONSTRUCTION NOTES:

- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
- SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

SHEET NOTES:

- (A) CONCRETE MEDIAN NOSE STANDARD PLATE 7113 (PAID FOR AS 6" CONCRETE WALK).
- (B) CURB TYPE TRANSITION (SEE INTERSECTION DETAILS FOR CURB TYPE TRANSITIONS AT PED RAMP).



LEGEND	
	4" CONCRETE WALK
	6" CONCRETE WALK
	7" CONCRETE WALK
	CONCRETE CURB RAMP WALK
	6" CONCRETE DRIVEWAY PAVEMENT
	8" CONCRETE DRIVEWAY PAVEMENT
	COLOR CONCRETE WALK (SEE LANDSCAPING PLAN)
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT
	3" BITUMINOUS WALK
	AGGREGATE SURFACING (CV) CLASS 2
	2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	BITUMINOUS PATCH SPECIAL
	COLUMN SUPPORTED EMBANKMENT
	TRAFFIC FLOW
	TRAFFIC BARRIER DESIGN TYPE 31
	PROPOSED CHAIN LINK FENCE
	PROPOSED WOVEN WIRE FENCE
	EXISTING RIGHT-OF-WAY
	EXISTING PERMANENT EASEMENT
	RIGHT-OF-WAY
	PERMANENT EASEMENT
	TEMPORARY EASEMENT
	PARCEL LINE
	CONSTRUCTION LIMITS



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burnsville@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich

BENJAMIN A. ULRICH
LIC. NO. 59444
DATE 03/14/2025

DESIGNED CJB
DRAWN TWB
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

CONSTRUCTION PLANS

SHEET
210
OF
729

0T4M00197_pen.tbl
H:\CACO\0T4M00197\CAD\ORD\CACO-0T4M00197\plans\Const\cd1002124_185cpp007.dgn

pdf-B and W.pltcf
10:03:57 AM

benul
5/8/2025

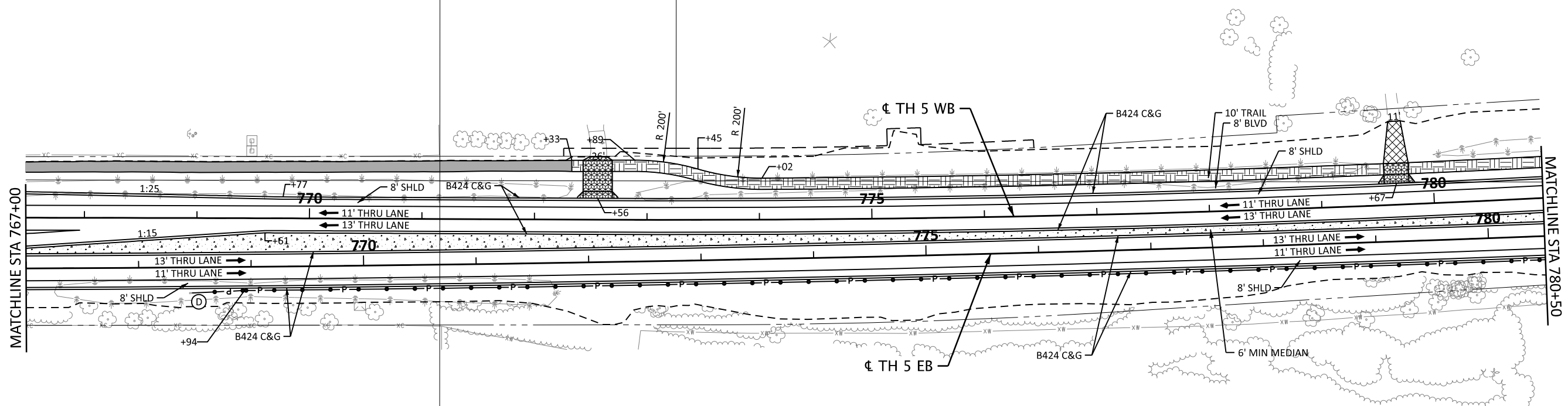
LEGEND		
	4" CONCRETE WALK	 2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK	 BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK	 COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK	 TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT	 TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT	 XC PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)	 XW PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT	 EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK	 EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2	 RIGHT-OF-WAY
		 PERMANENT EASEMENT
		 TEMPORARY EASEMENT
		 PARCEL LINE
		 CONSTRUCTION LIMITS

CONSTRUCTION NOTES:

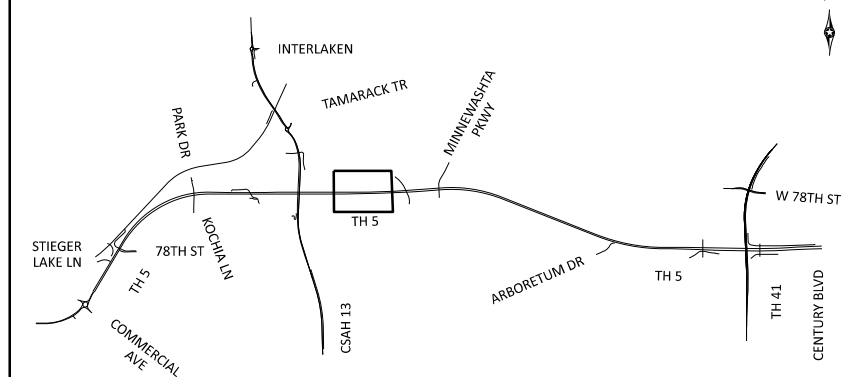
- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
- SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

SHEET NOTES:

- ① END TREATMENT - TANGENT TERMINAL, MNDOT STANDARD PLAN (5-297.612).



PLAN SHEET LOCATION



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich

BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED CJB
DRAWN TWB
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION
CONSTRUCTION PLANS

SHEET
211
OF
729

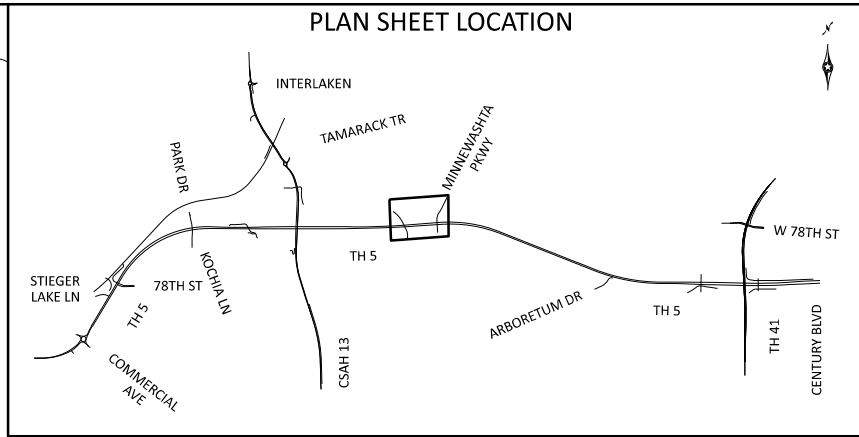
014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Const\cd1002124_185pp008.dgn
pdf-B and W.plt
10:03:57 AM
benul
5/8/2025

LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS

CONSTRUCTION NOTES:

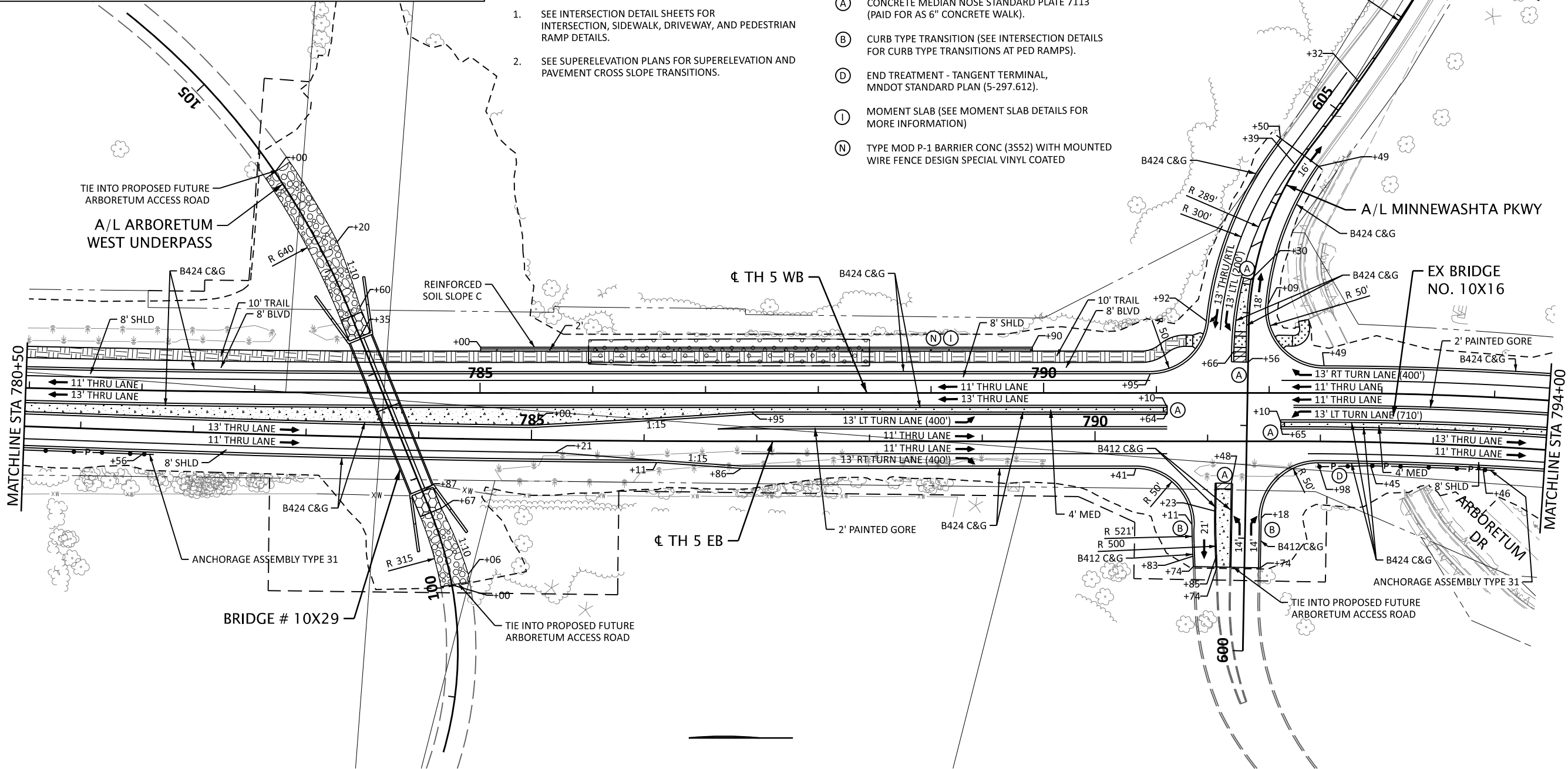
- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
- SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

PLAN SHEET LOCATION



SHEET NOTES:

- (A) CONCRETE MEDIAN NOSE STANDARD PLATE 7113 (PAID FOR AS 6" CONCRETE WALK).
- (B) CURB TYPE TRANSITION (SEE INTERSECTION DETAILS FOR CURB TYPE TRANSITIONS AT PED RAMPS).
- (D) END TREATMENT - TANGENT TERMINAL, MNDOT STANDARD PLAN (5-297.612).
- (I) MOMENT SLAB (SEE MOMENT SLAB DETAILS FOR MORE INFORMATION)
- (N) TYPE MOD P-1 BARRIER CONC (3S52) WITH MOUNTED WIRE FENCE DESIGN SPECIAL VINYL COATED



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED CJB
DRAWN TWB
CHECKED BAU

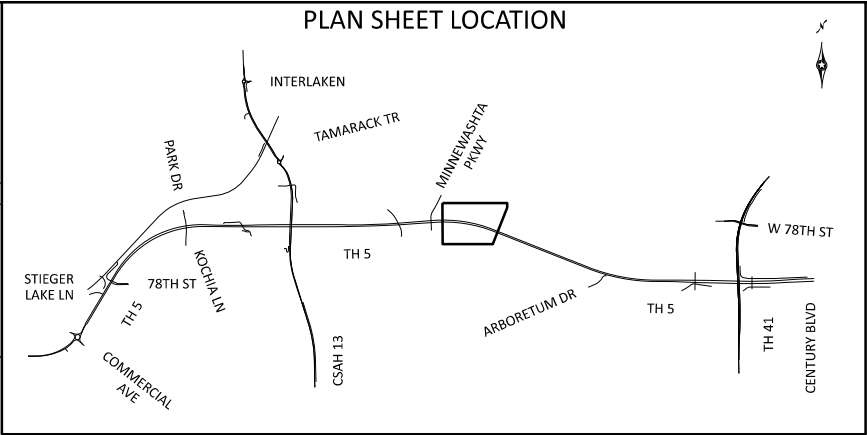
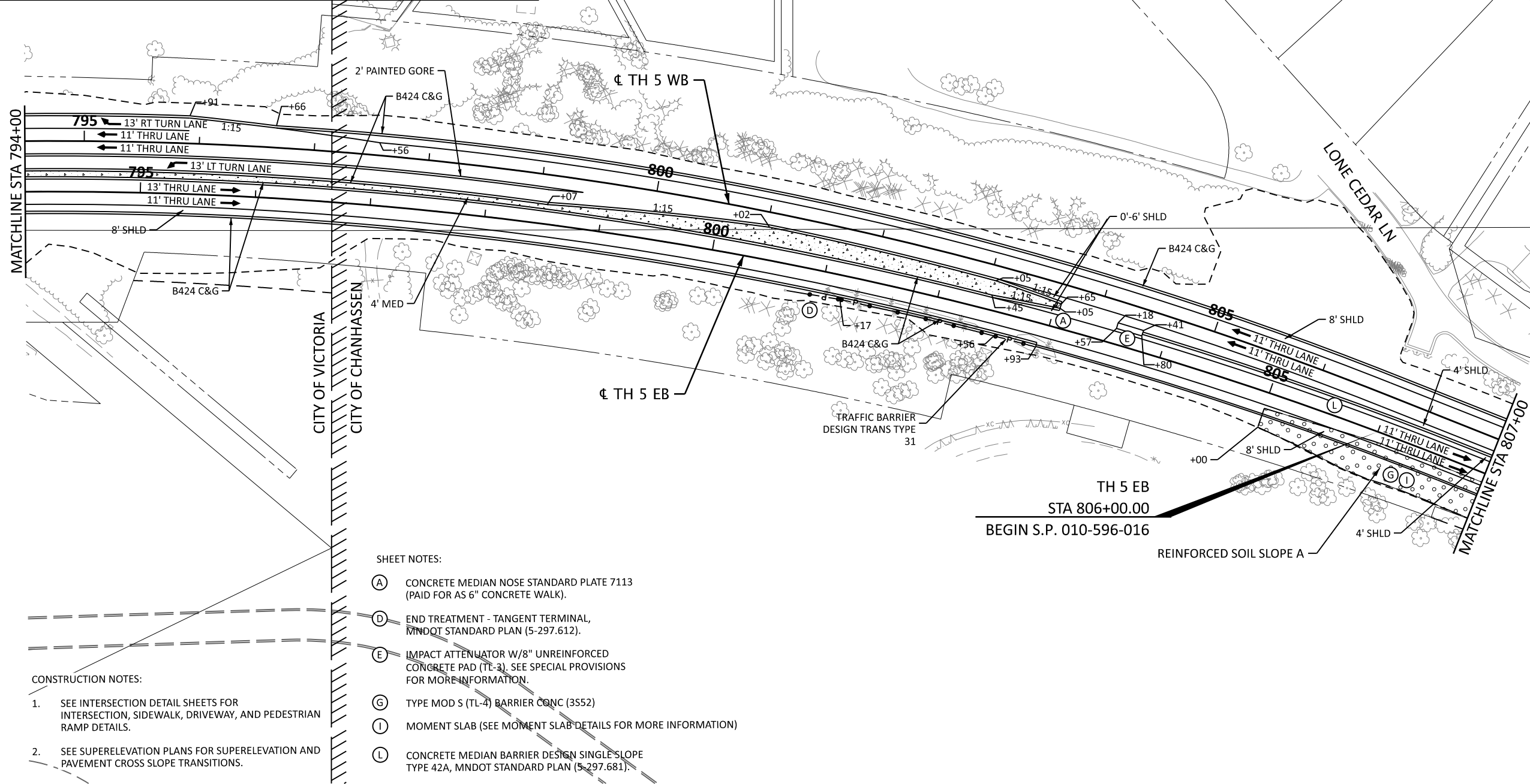
S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

CONSTRUCTION PLANS

SHEET
212
OF
729

LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS

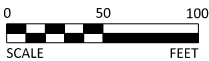


SHEET NOTES:

- (A) CONCRETE MEDIAN NOSE STANDARD PLATE 7113 (PAID FOR AS 6" CONCRETE WALK).
- (D) END TREATMENT - TANGENT TERMINAL, MNDOT STANDARD PLAN (5-297.612).
- (E) IMPACT ATTENUATOR W/8" UNREINFORCED CONCRETE PAD (TL-3). SEE SPECIAL PROVISIONS FOR MORE INFORMATION.
- (G) TYPE MOD S (TL-4) BARRIER CONC (3S52)
- (I) MOMENT SLAB (SEE MOMENT SLAB DETAILS FOR MORE INFORMATION)
- (L) CONCRETE MEDIAN BARRIER DESIGN SINGLE SLOPE TYPE 42A, MNDOT STANDARD PLAN (5-297.681).

CONSTRUCTION NOTES:

- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
- SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED CJB
DRAWN TWB
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

CONSTRUCTION PLANS

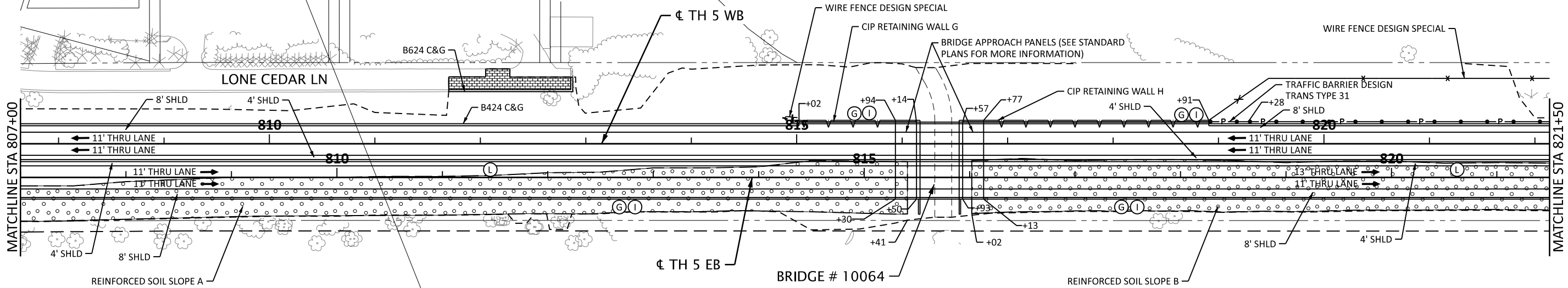
SHEET
213
OF
729

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\plans\Const\ed1002124_185cpp010.dgn
pdf-B and W.pltcf
10:03:58 AM

benul
5/8/2025
Default

LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS

LAKE MINNEWASHTA



CONSTRUCTION NOTES:

- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
- SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

SHEET NOTES:

- TYPE MOD S (TL-4) BARRIER CONC (3S52)
- MOMENT SLAB (SEE MOMENT SLAB DETAILS FOR MORE INFORMATION)
- CONCRETE MEDIAN BARRIER DESIGN SINGLE SLOPE TYPE 42A, MNDOT STANDARD PLAN (5-297.681).



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

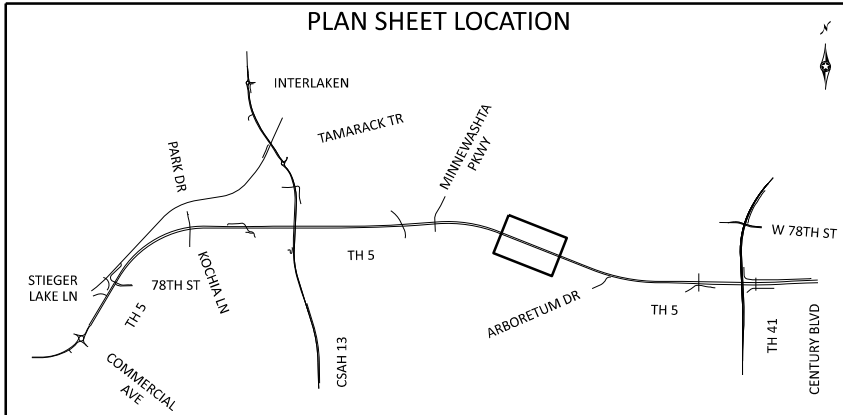
DESIGNED CJB
DRAWN TWB
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

CONSTRUCTION PLANS

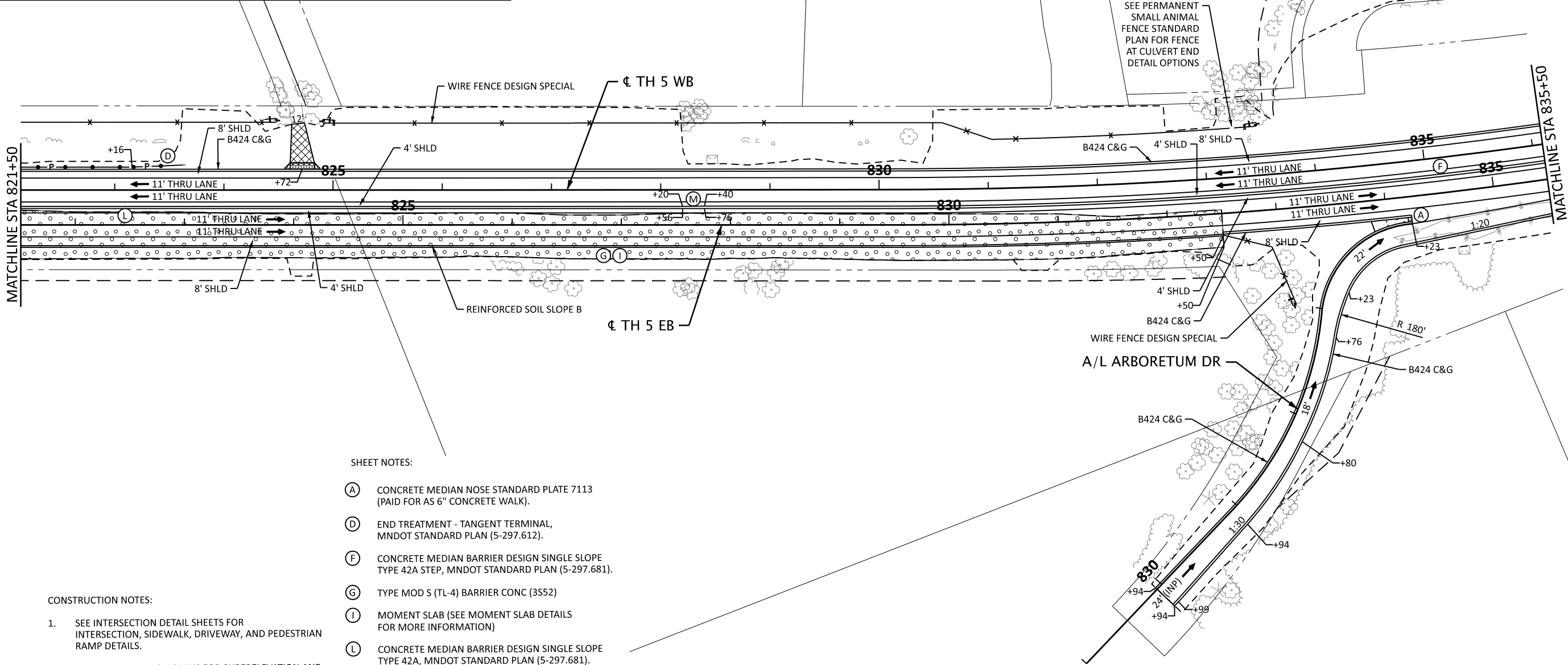
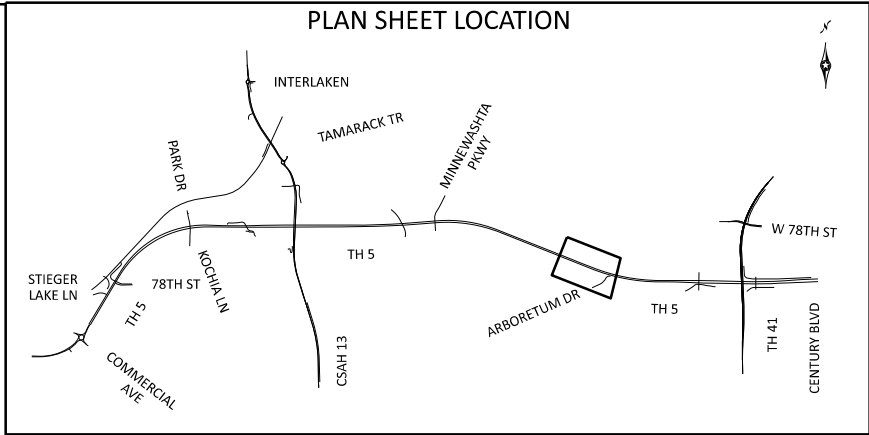
SHEET
214
OF
729



0T4M00197_pen.tbl
H:\CACO\0T4M00197\CAD\ORD\CACO-0T4M00197\plans\Const\cd1002124_185cpp011.dgn
pdf-B and W.plt:cfig
10:03:59 AM

benul
5/8/2025
Default

LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS



SHEET NOTES:

- (A) CONCRETE MEDIAN NOSE STANDARD PLATE 7113 (PAID FOR AS 6" CONCRETE WALK).
- (D) END TREATMENT - TANGENT TERMINAL, MNDOT STANDARD PLAN (5-297.612).
- (F) CONCRETE MEDIAN BARRIER DESIGN SINGLE SLOPE TYPE 42A STEP, MNDOT STANDARD PLAN (5-297.681).
- (G) TYPE MOD S (TL-4) BARRIER CONC (3552)
- (I) MOMENT SLAB (SEE MOMENT SLAB DETAILS FOR MORE INFORMATION)
- (L) CONCRETE MEDIAN BARRIER DESIGN SINGLE SLOPE TYPE 42A, MNDOT STANDARD PLAN (5-297.681).
- (M) TRANSITION BETWEEN TYPE 42A AND TYPE 42A STEP BARRIERS.

CONSTRUCTION NOTES:

1. SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
2. SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burnsville@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich

BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED CJB
DRAWN TWB
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

CONSTRUCTION PLANS

SHEET
215
OF
729

0T4M00197_pen.tbl
H:\CACO\0T4M00197\CAD\ORD\plans\Const\ed1002124_185cpp012.dgn

pdf-B and W.plt
10:04:00 AM

benul
5/8/2025

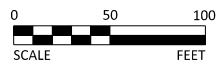
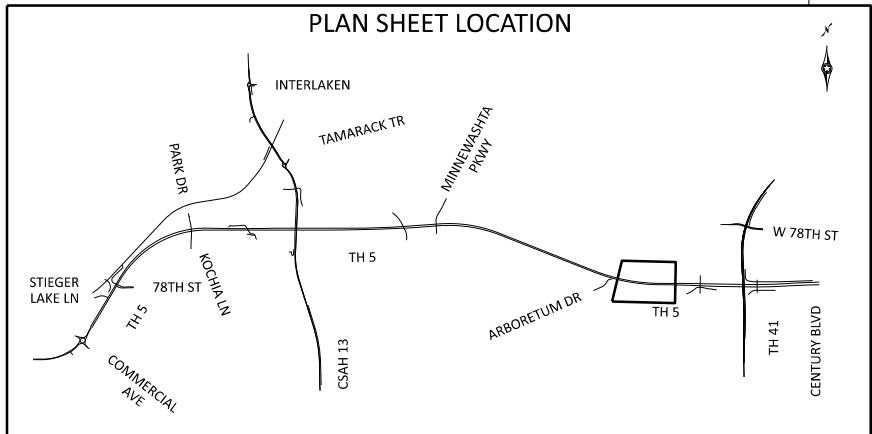
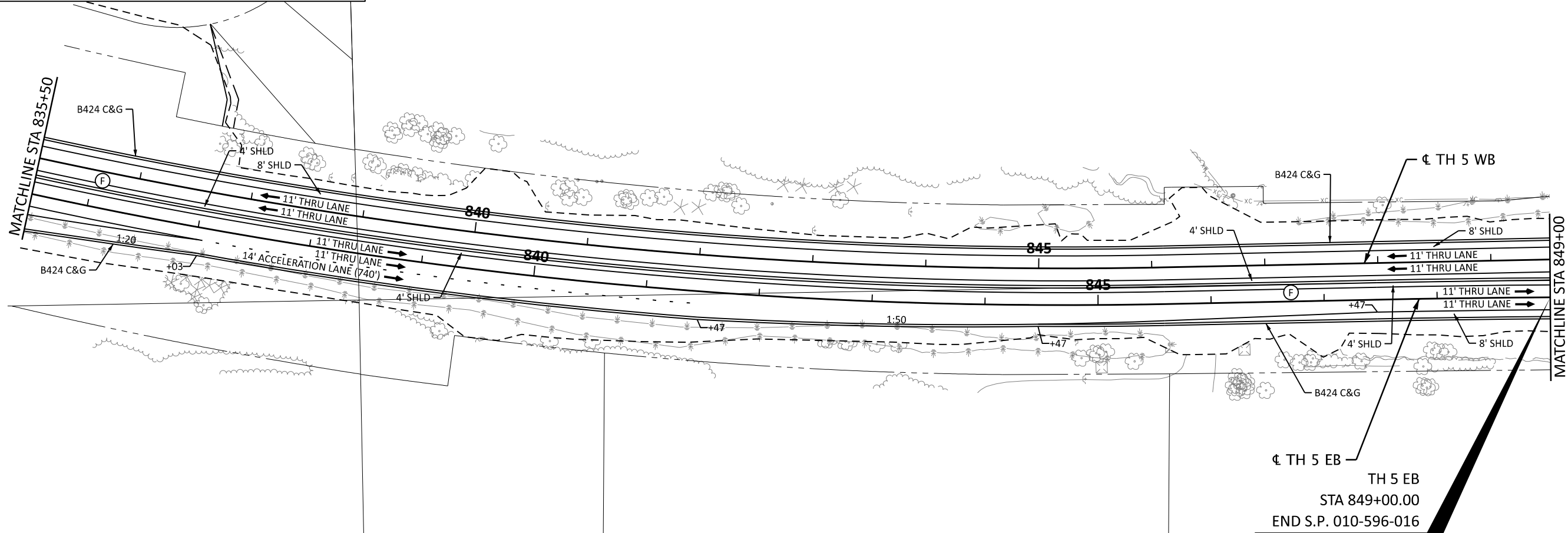
LEGEND		
	4" CONCRETE WALK	 2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK	 BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK	 COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK	 TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT	 TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT	 XC PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)	 XW PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT	 EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK	 EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2	 RIGHT-OF-WAY
		 PERMANENT EASEMENT
		 TEMPORARY EASEMENT
		 PARCEL LINE
		 CONSTRUCTION LIMITS

CONSTRUCTION NOTES:

- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
- SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

SHEET NOTES:

- (F) CONCRETE MEDIAN BARRIER DESIGN SINGLE SLOPE TYPE 42A STEP, MNDOT STANDARD PLAN (5-297.681).



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED CJB
DRAWN TWB
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

CONSTRUCTION PLANS

SHEET
216
OF
729

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\plans\Const\cd1002124_185cpp013.dgn

pdf-B and W.pltcfgr
10:04:02 AM

benul
5/8/2025

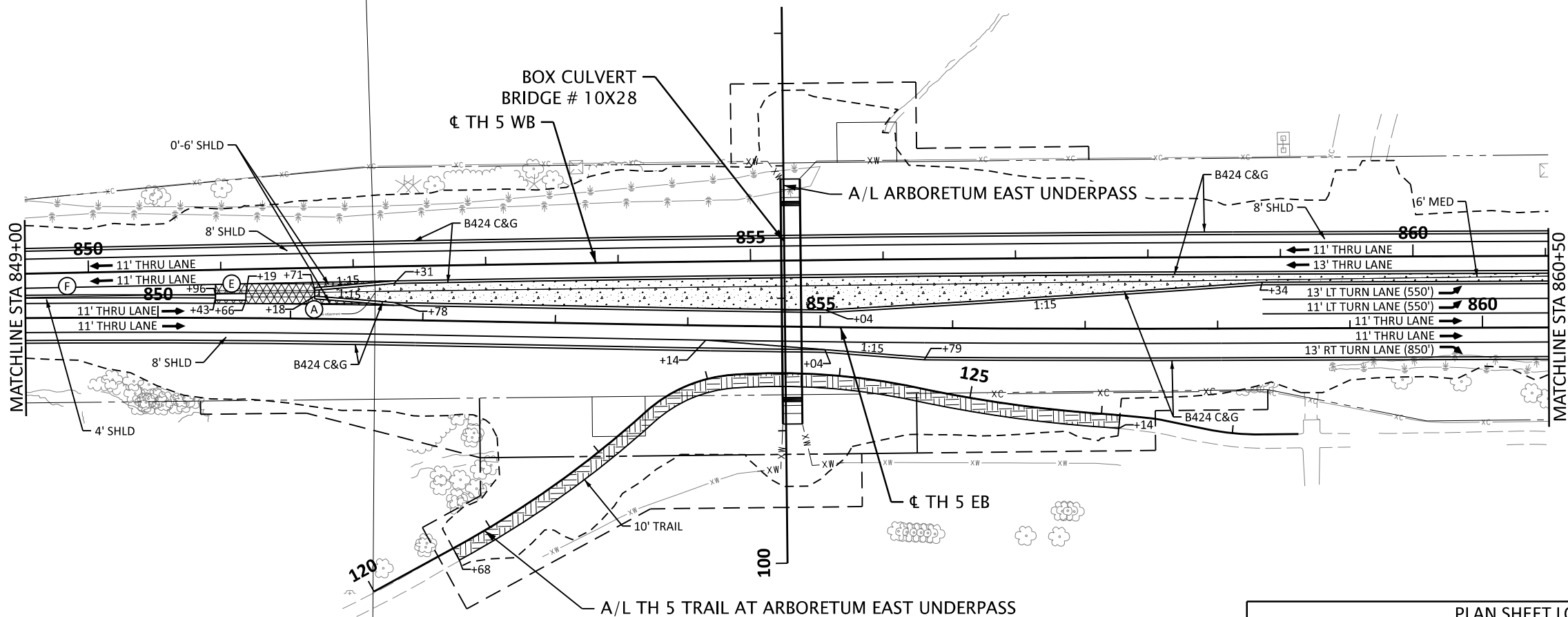
LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS

CONSTRUCTION NOTES:

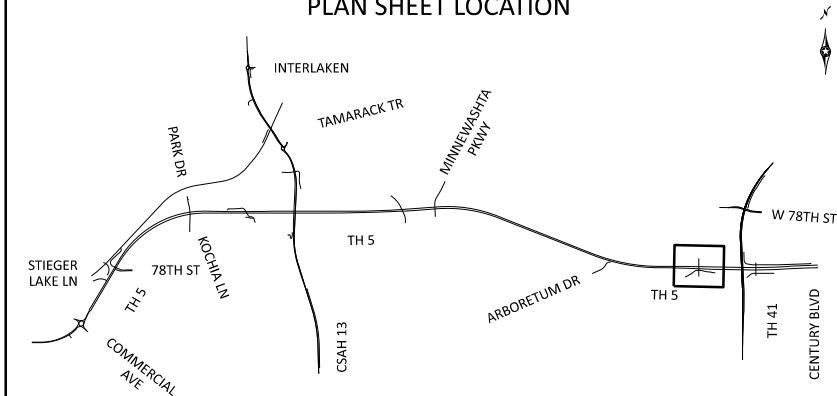
- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
- SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

SHEET NOTES:

- (A) CONCRETE MEDIAN NOSE STANDARD PLATE 7113 (PAID FOR AS 6" CONCRETE WALK).
- (E) IMPACT ATTENUATOR W/8" UNREINFORCED CONCRETE PAD (TL-3). SEE SPECIAL PROVISIONS FOR MORE INFORMATION.
- (F) CONCRETE MEDIAN BARRIER DESIGN SINGLE SLOPE TYPE 42 A STEP, MNDOT STANDARD PLAN (5-297.681).



PLAN SHEET LOCATION



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burnsville@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

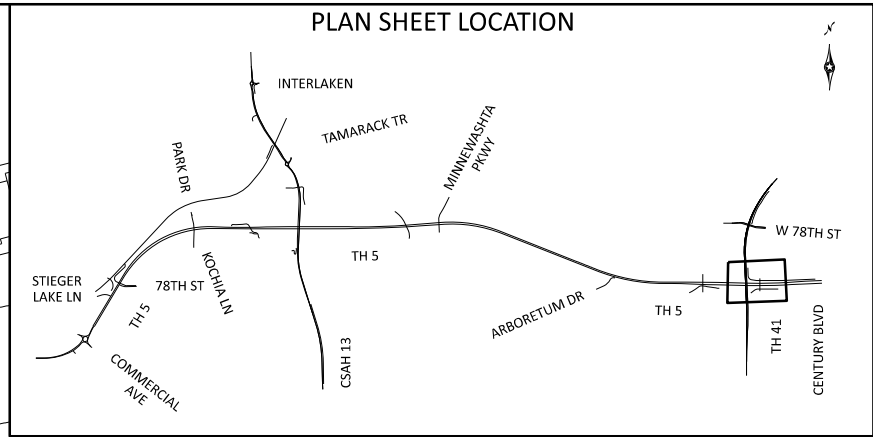
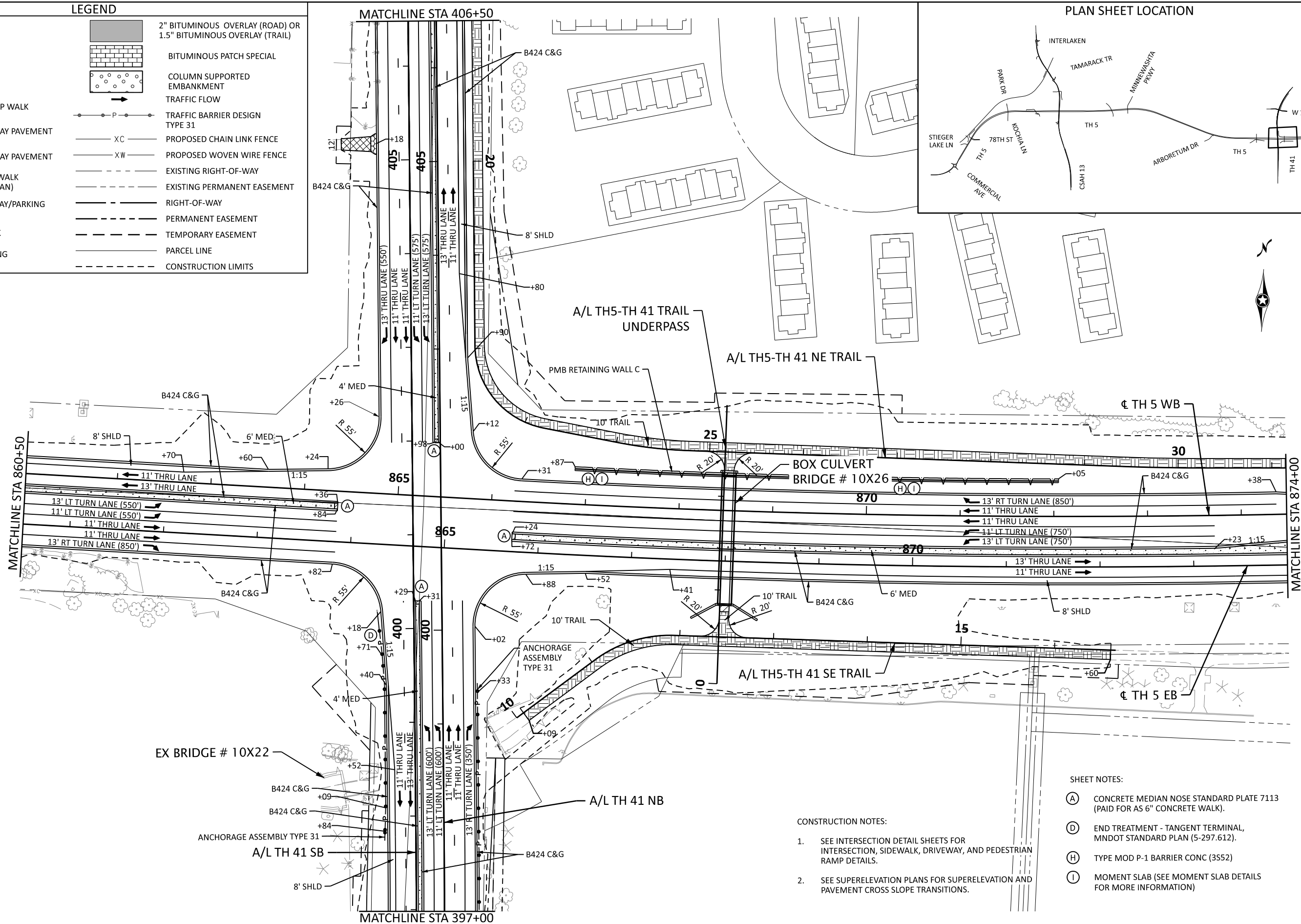
DESIGNED CJB
DRAWN TWB
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION
CONSTRUCTION PLANS

SHEET
217
OF
729

LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS



- CONSTRUCTION NOTES:
- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
 - SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

- SHEET NOTES:
- (A) CONCRETE MEDIAN NOSE STANDARD PLATE 7113 (PAID FOR AS 6" CONCRETE WALK).
 - (D) END TREATMENT - TANGENT TERMINAL, MNDOT STANDARD PLAN (5-297.612).
 - (H) TYPE MOD P-1 BARRIER CONC (3SS2)
 - (I) MOMENT SLAB (SEE MOMENT SLAB DETAILS FOR MORE INFORMATION)



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED
CJB
DRAWN
TWB
CHECKED
BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

CONSTRUCTION PLANS

SHEET
218
OF
729

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Const\cd1002124_185pp015.dgn

pdf-B and W.pltcf
10:04:05 AM

benul
5/8/2025

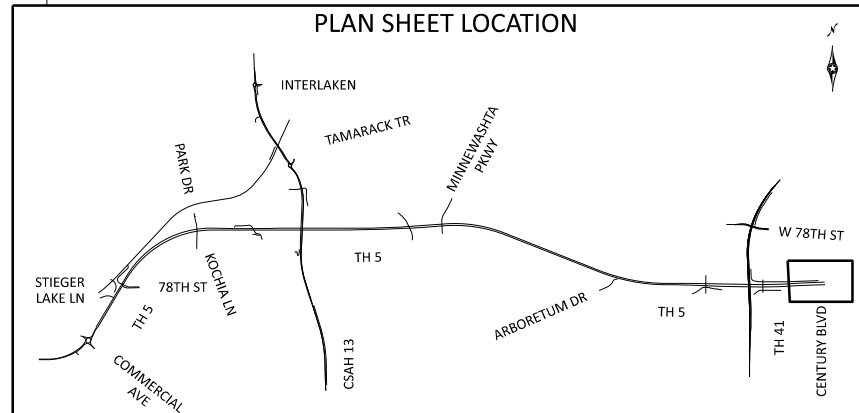
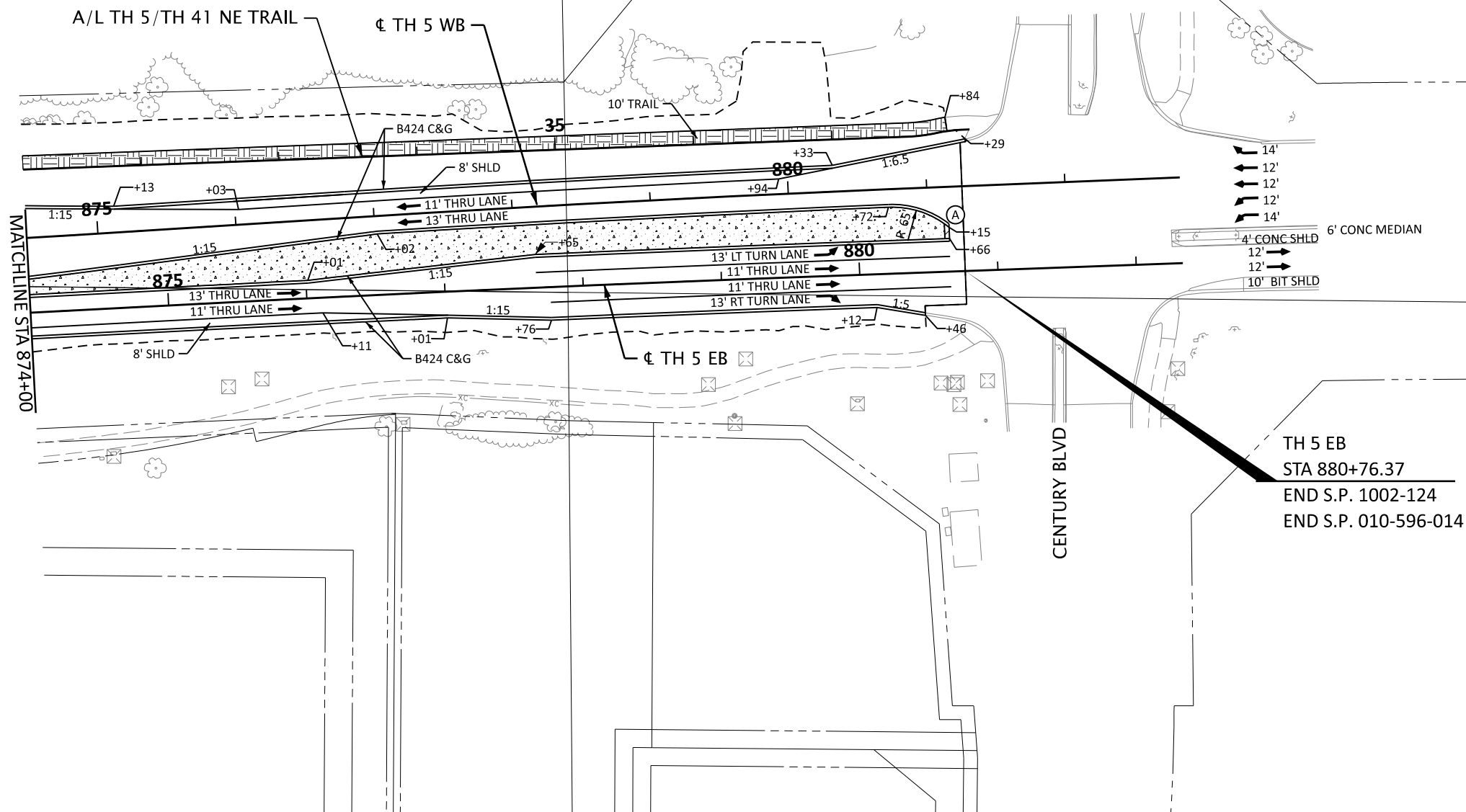
LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS

CONSTRUCTION NOTES:

1. SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
2. SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

SHEET NOTES:

- (A) CONCRETE MEDIAN NOSE STANDARD PLATE 7113
(PAID FOR AS 6" CONCRETE WALK).



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

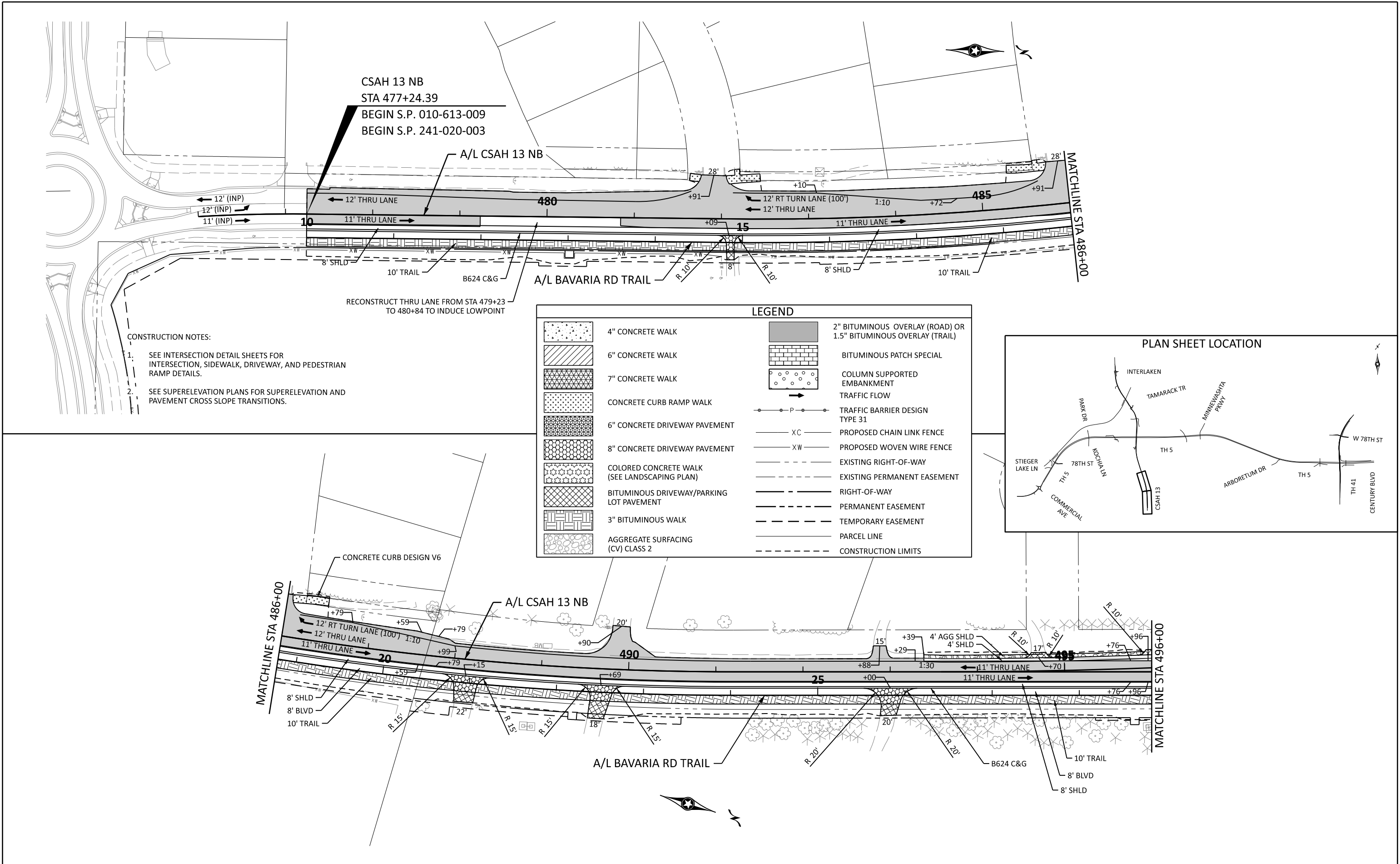
DESIGNED CJB
DRAWN TWB
CHECKED BAU

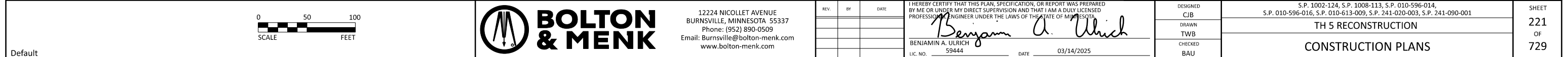
S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION
CONSTRUCTION PLANS

SHEET
219
OF
729

014M00197_pen.tbl
H:\COCO\014M00197\CAD\ORD\CACO-014M00197\plans\Const\cd1002124_185cpp016.dgn
pdf-B and W.plt
10:04:07 AM
benul
5/8/2025

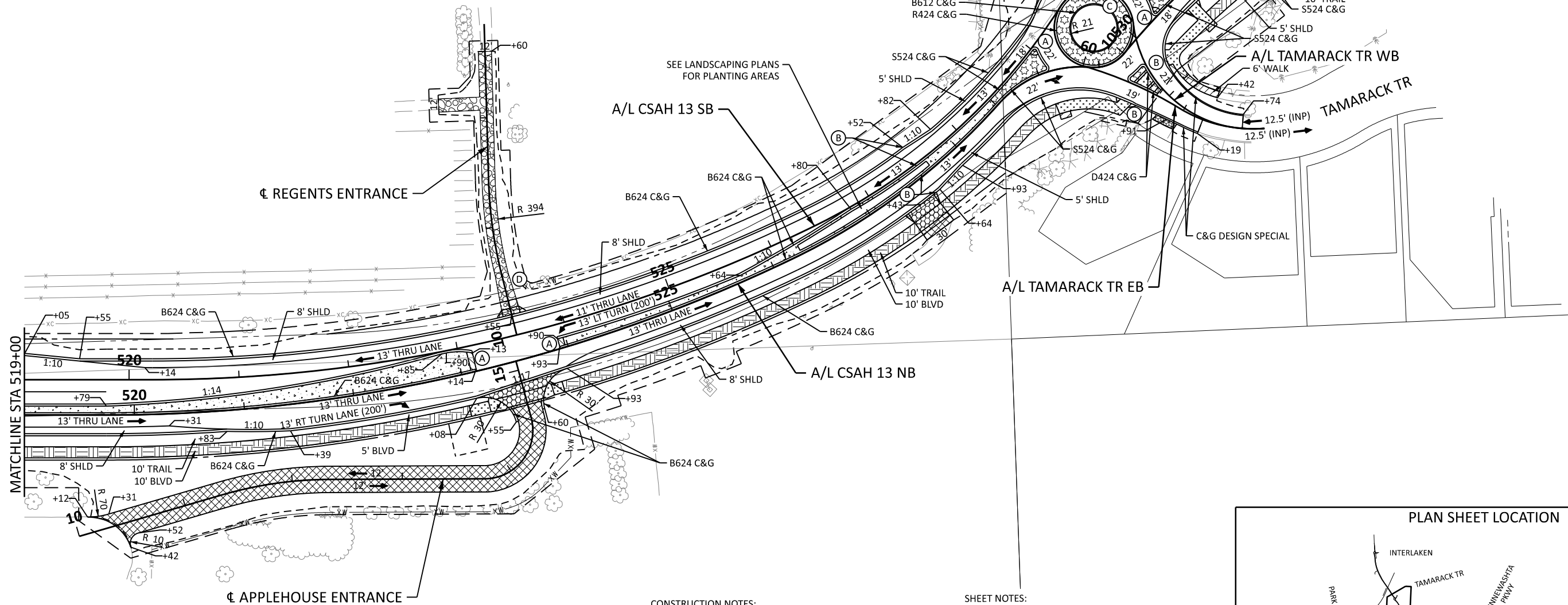




0T4M00197_pen.tbl
H:\CACO\0T4M00197\CAD\ORD\CACO-0T4M00197\plans\Const\ed1002124_185cpp018.dgn
pdf-B and W.plt
10:04:09 AM

benul
5/8/2025

LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS



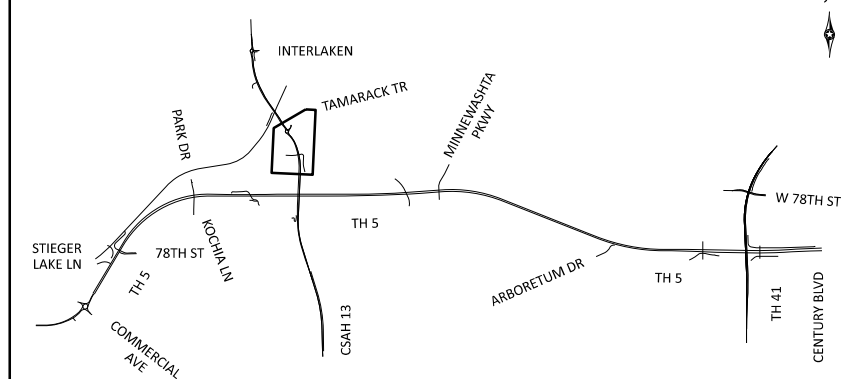
CONSTRUCTION NOTES:

- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
- SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

SHEET NOTES:

- CONCRETE MEDIAN NOSE STANDARD PLATE 7113 (PAID FOR AS 6" CONCRETE WALK).
- CURB TYPE TRANSITION (SEE INTERSECTION DETAILS FOR CURB TYPE TRANSITIONS AT PED RAMPS).
- SEE MISCELLANEOUS DETAILS FOR ROUNDABOUT TRUCK APRON JOINTING PLAN.
- VEHICULAR GATE SPECIAL

PLAN SHEET LOCATION



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED
CJB
DRAWN
TWB
CHECKED
BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

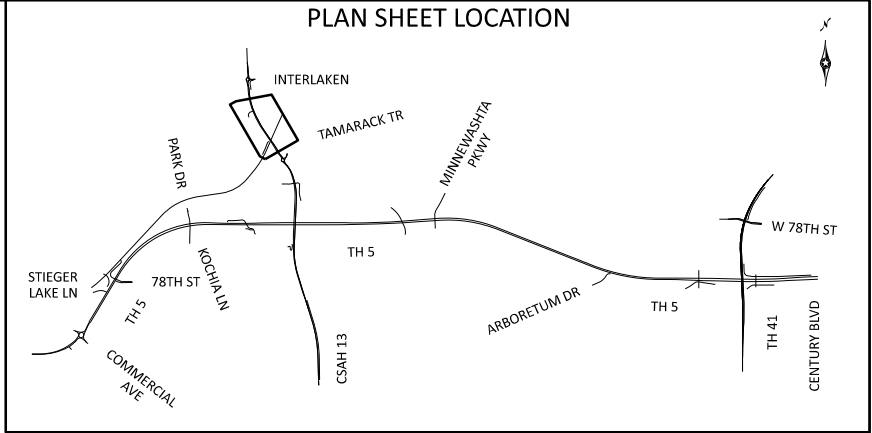
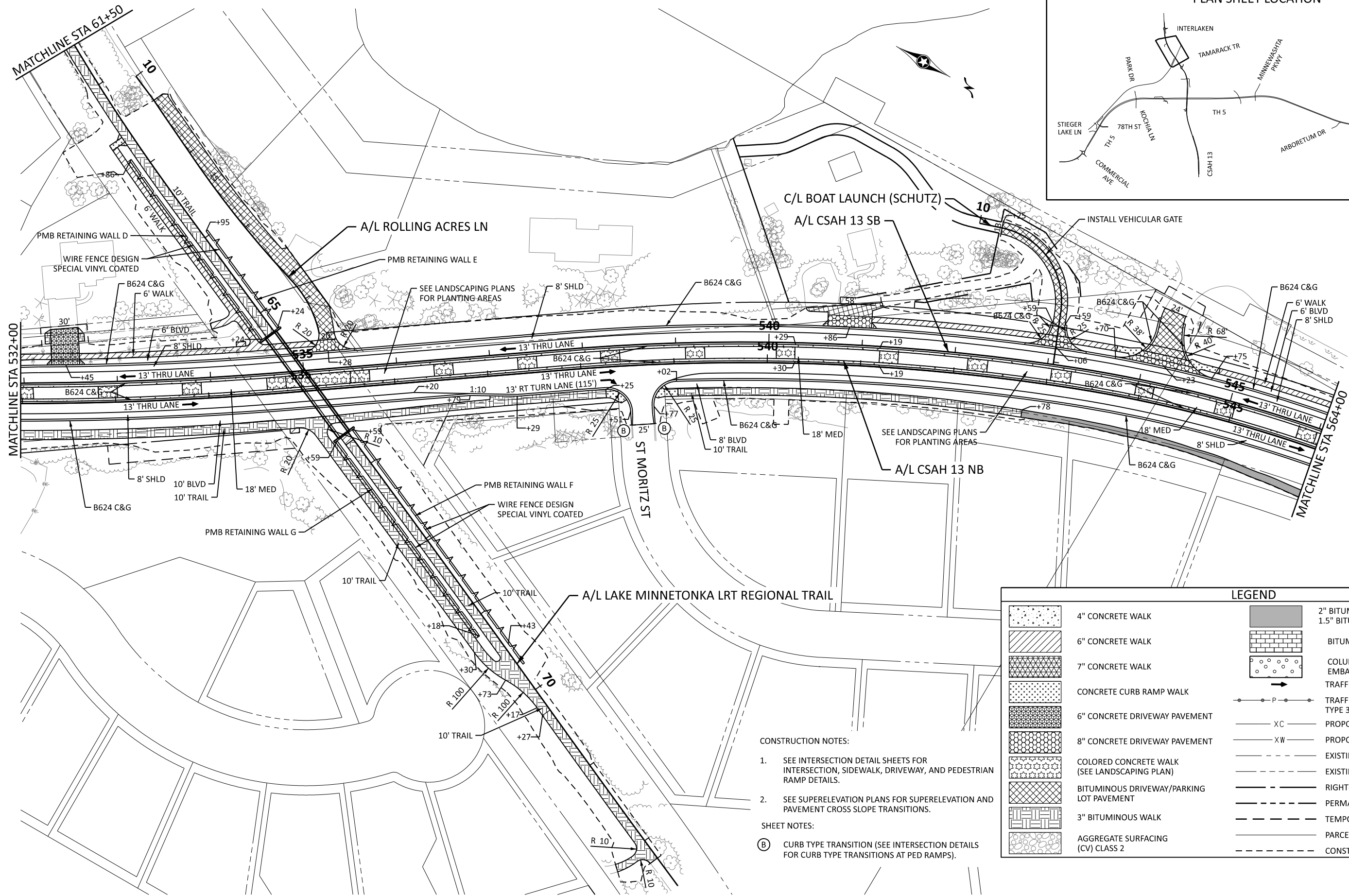
CONSTRUCTION PLANS

SHEET
222
OF
729

0T4M00197_pen.tbl
H:\CACO\0T4M00197\CAD\ORD\CACO-0T4M00197\plans\Const\cd1002124_185cpp019.dgn
pdf-B and W.plt:cf
10:04:11 AM

benul
5/8/2025

Default



CONSTRUCTION NOTES:

- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
- SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

SHEET NOTES:

- (B) CURB TYPE TRANSITION (SEE INTERSECTION DETAILS FOR CURB TYPE TRANSITIONS AT PED RAMPS).

LEGEND

	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLOR CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED CJB
DRAWN TWB
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

CONSTRUCTION PLANS

SHEET
223
OF
729

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Const\ed1002124_185pp020.dgn
pdf-B and W.pltcf
10:04:12 AM
benul
5/8/2025

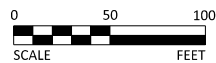
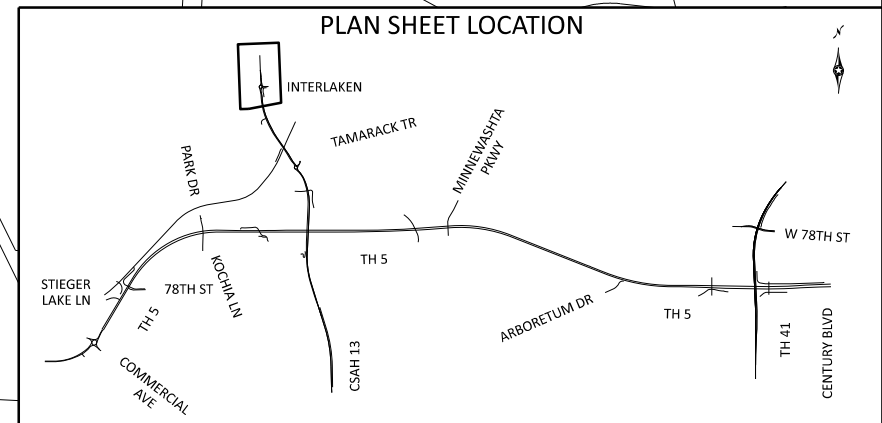
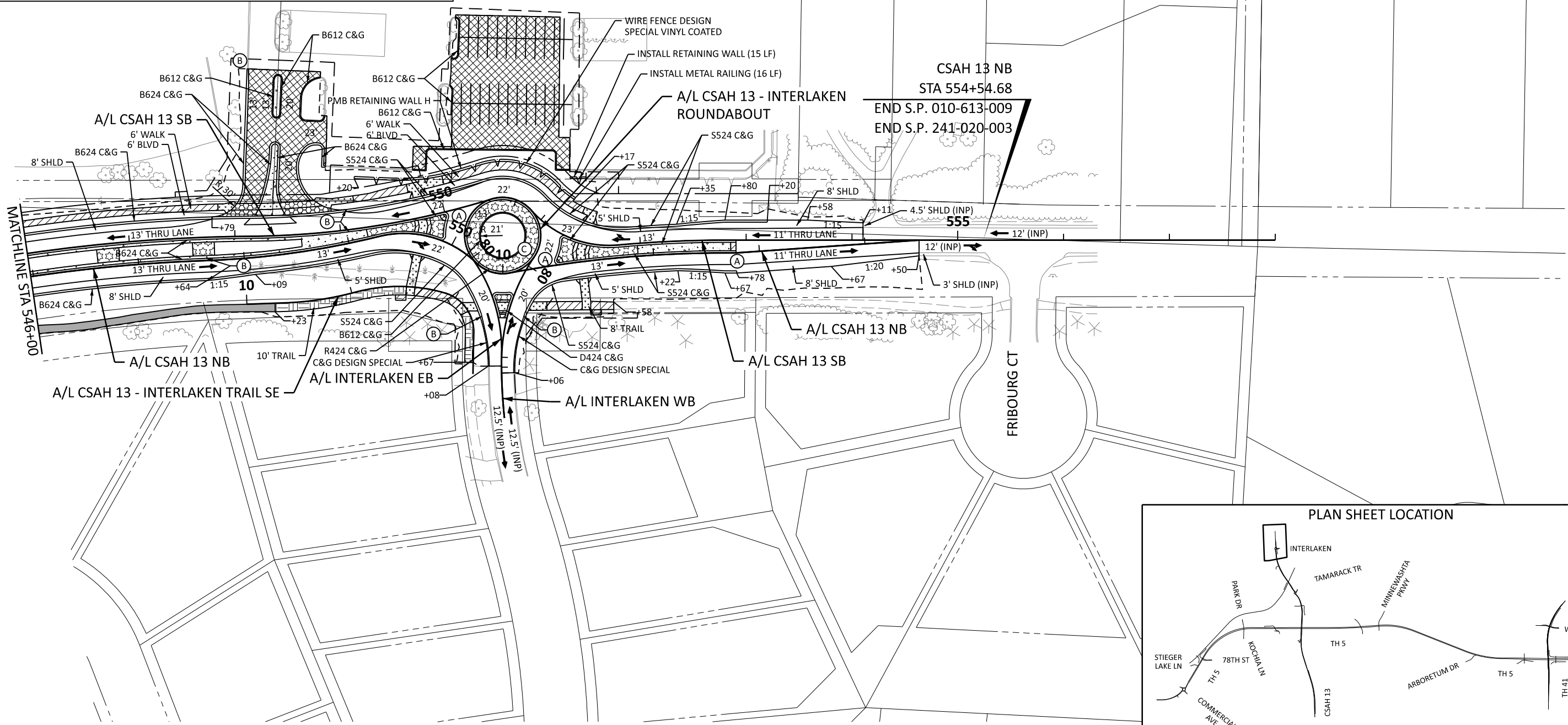
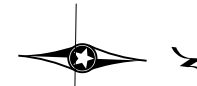
LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS

CONSTRUCTION NOTES:

- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
- SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

SHEET NOTES:

- (A) CONCRETE MEDIAN NOSE STANDARD PLATE 7113 (PAID FOR AS 6" CONCRETE WALK).
- (B) CURB TYPE TRANSITION (SEE INTERSECTION DETAILS FOR CURB TYPE TRANSITIONS AT PED RAMPS).
- (C) SEE MISCELLANEOUS DETAILS FOR ROUNDABOUT TRUCK APRON JOINTING PLAN.



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

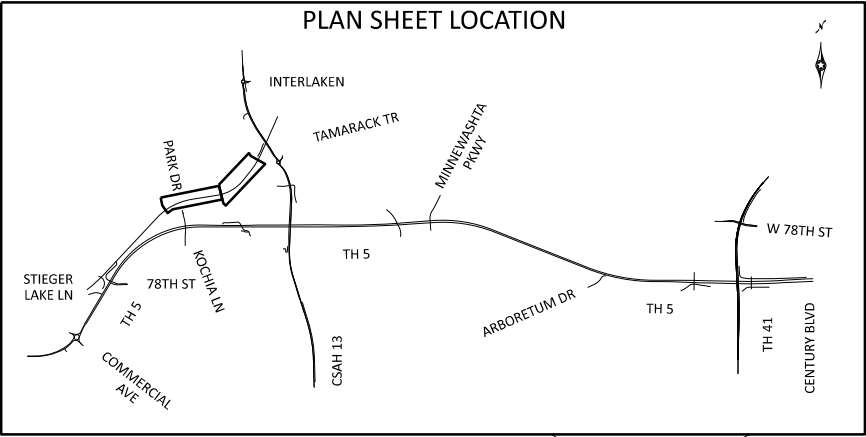
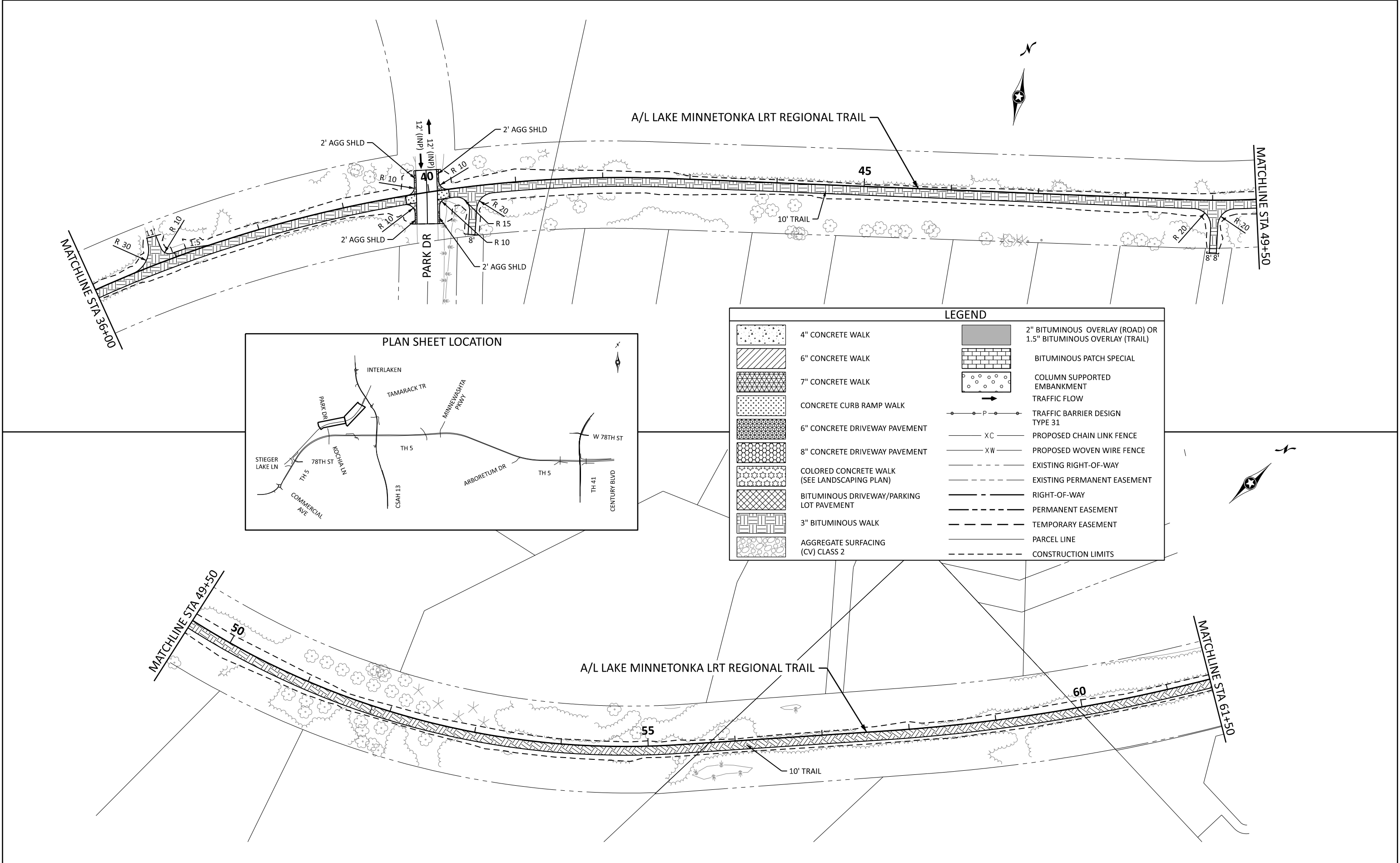
DESIGNED CJB
DRAWN TWB
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

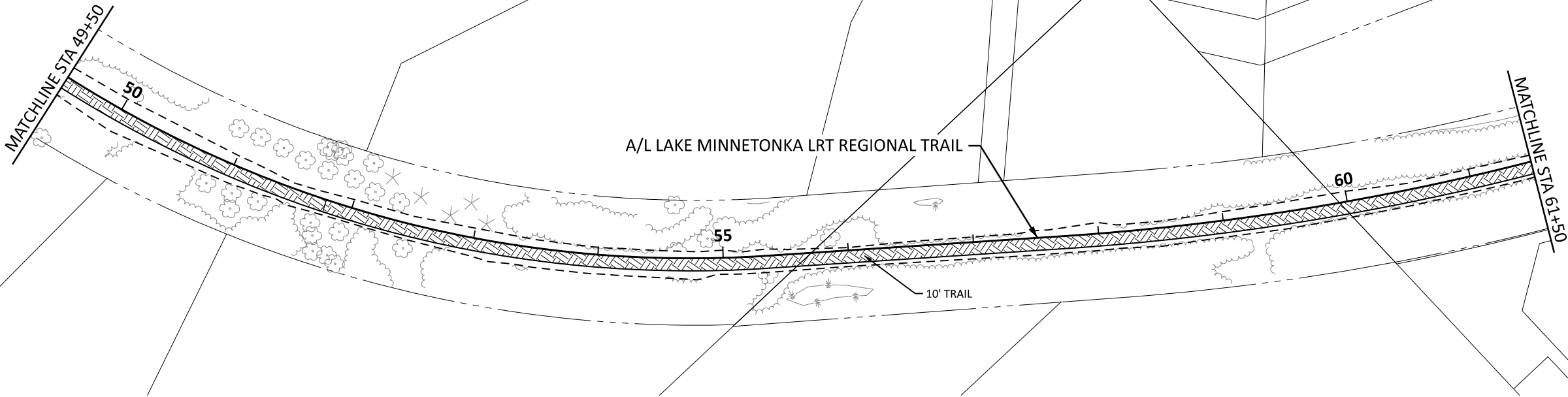
TH 5 RECONSTRUCTION

CONSTRUCTION PLANS

SHEET
224
OF
729



LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLOR CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS



BOLTON & MENK

12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich

BENJAMIN A. ULRICH
LIC. NO. 59444
DATE 03/14/2025

DESIGNED CJB
DRAWN TWB
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

CONSTRUCTION PLANS

SHEET
225
OF
729

0T4M00197_pen.tbl
H:\CACO\0T4M00197\CAD\ORD\CACO-0T4M00197\plans\Const\cd1002124_185cpp022.dgn
pdf-B and W.plt:cf
10:04:14 AM
benul
5/8/2025

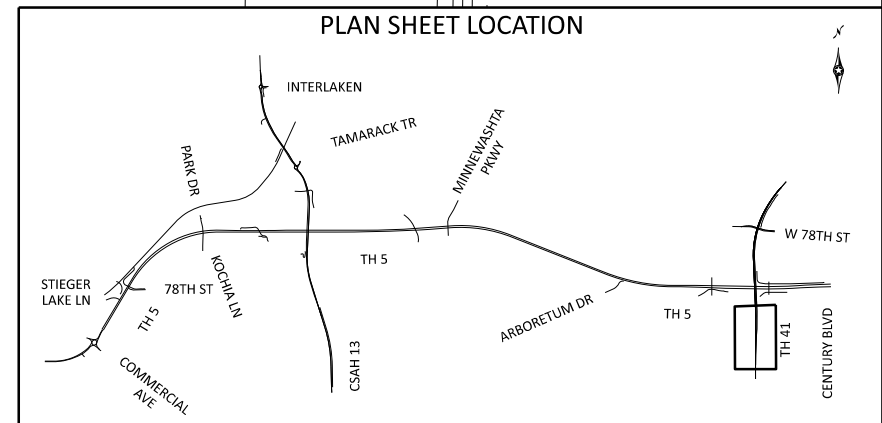
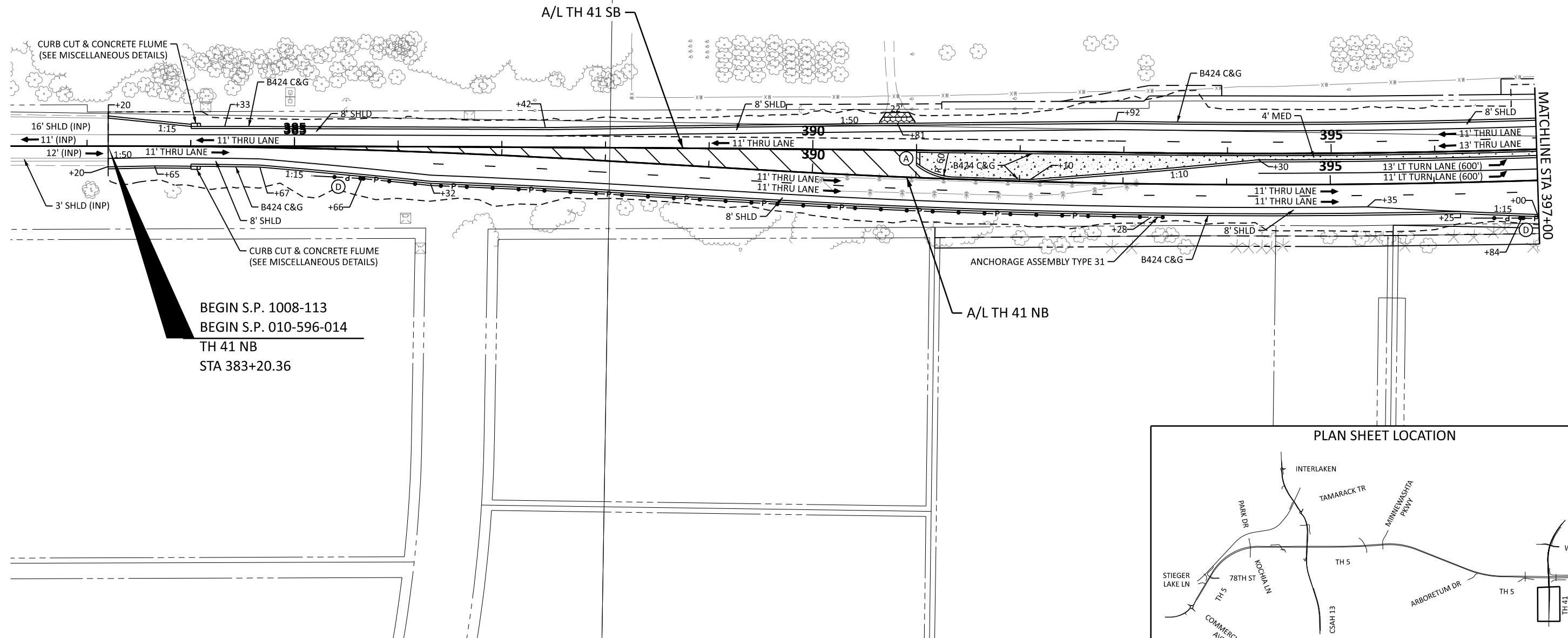
LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS

CONSTRUCTION NOTES:

- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
- SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

SHEET NOTES:

- (A) CONCRETE MEDIAN NOSE STANDARD PLATE 7113 (PAID FOR AS 6" CONCRETE WALK).
- (D) END TREATMENT - TANGENT TERMINAL, MNDOT STANDARD PLAN (5-297.612).



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED CJB
DRAWN TWB
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014, S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001
TH 5 RECONSTRUCTION
CONSTRUCTION PLANS

SHEET 226 OF 729

0T4M00197_pen.tbl
H:\CACO\0T4M00197\CAD\ORD\CACO-0T4M00197\plans\Const\cd1002124_185cpp023.dgn
pdf-B and W.plt:cgf
10:04:16 AM
benul
5/8/2025

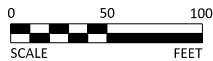
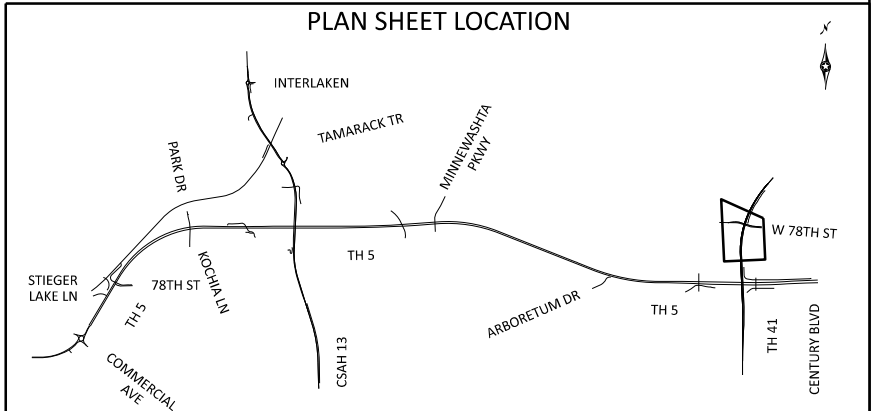
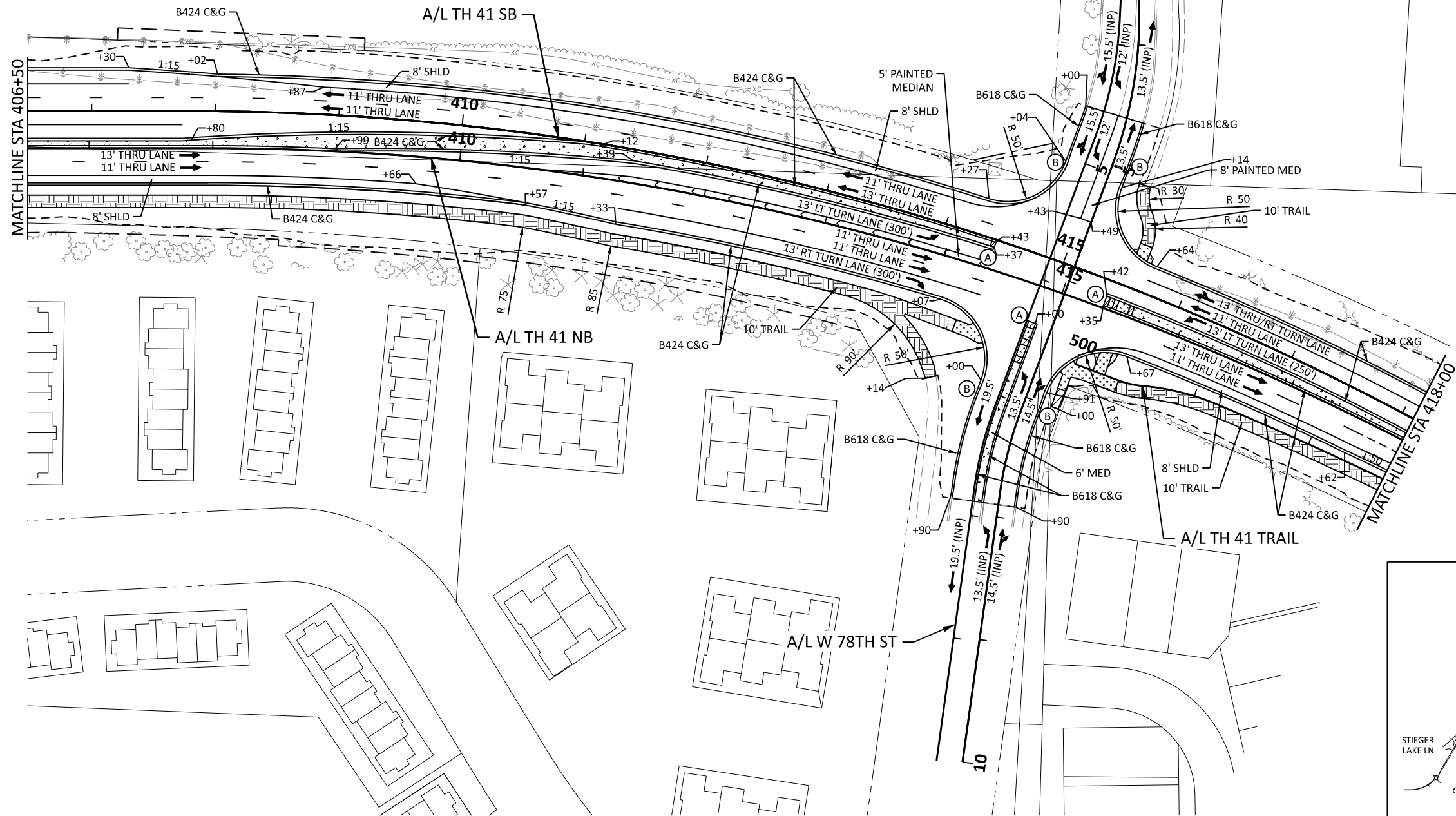
LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS

CONSTRUCTION NOTES:

- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
- SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

SHEET NOTES:

- (A) CONCRETE MEDIAN NOSE STANDARD PLATE 7113 (PAID FOR AS 6" CONCRETE WALK).
- (B) CURB TYPE TRANSITION (SEE INTERSECTION DETAILS FOR CURB TYPE TRANSITIONS AT PED RAMP).



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED CJB
DRAWN TWB
CHECKED BAU

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

CONSTRUCTION PLANS

SHEET
227
OF
729

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Const\cd1002124_185pp024.dgn
pdf-B and W.plt
10:04:18 AM
benul
5/8/2025

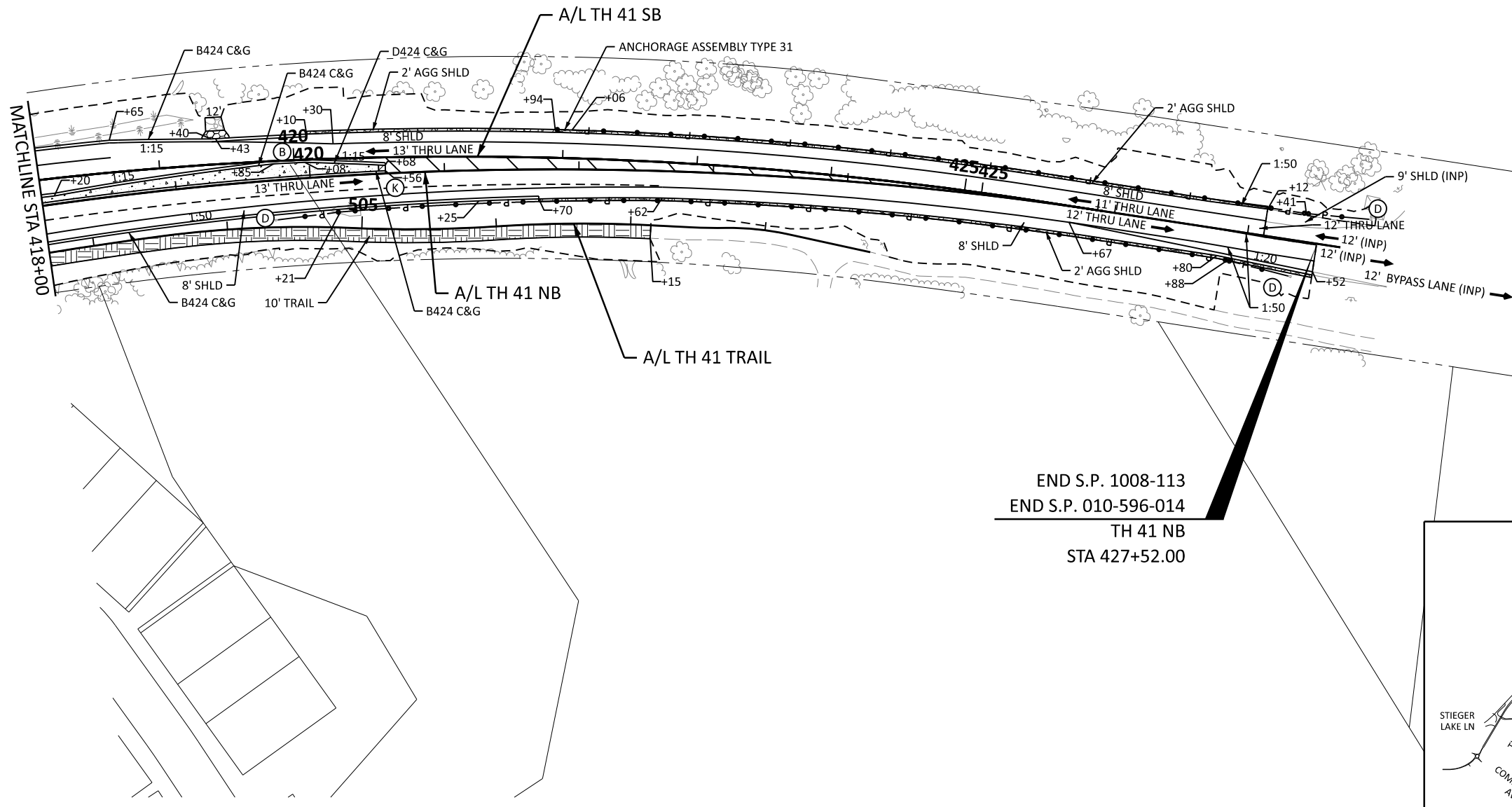
LEGEND			
	4" CONCRETE WALK		2" BITUMINOUS OVERLAY (ROAD) OR 1.5" BITUMINOUS OVERLAY (TRAIL)
	6" CONCRETE WALK		BITUMINOUS PATCH SPECIAL
	7" CONCRETE WALK		COLUMN SUPPORTED EMBANKMENT
	CONCRETE CURB RAMP WALK		TRAFFIC FLOW
	6" CONCRETE DRIVEWAY PAVEMENT		TRAFFIC BARRIER DESIGN TYPE 31
	8" CONCRETE DRIVEWAY PAVEMENT		PROPOSED CHAIN LINK FENCE
	COLORED CONCRETE WALK (SEE LANDSCAPING PLAN)		PROPOSED WOVEN WIRE FENCE
	BITUMINOUS DRIVEWAY/PARKING LOT PAVEMENT		EXISTING RIGHT-OF-WAY
	3" BITUMINOUS WALK		EXISTING PERMANENT EASEMENT
	AGGREGATE SURFACING (CV) CLASS 2		RIGHT-OF-WAY
			PERMANENT EASEMENT
			TEMPORARY EASEMENT
			PARCEL LINE
			CONSTRUCTION LIMITS

CONSTRUCTION NOTES:

- SEE INTERSECTION DETAIL SHEETS FOR INTERSECTION, SIDEWALK, DRIVEWAY, AND PEDESTRIAN RAMP DETAILS.
- SEE SUPERELEVATION PLANS FOR SUPERELEVATION AND PAVEMENT CROSS SLOPE TRANSITIONS.

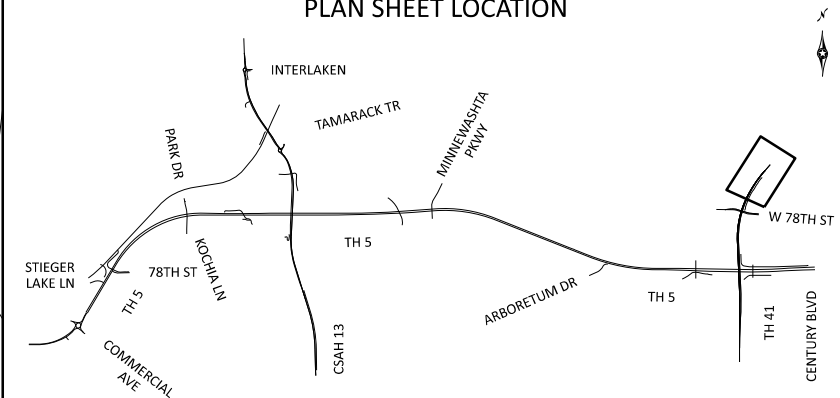
SHEET NOTES:

- (B) CURB TYPE TRANSITION (SEE INTERSECTION DETAILS FOR CURB TYPE TRANSITIONS AT PED RAMPS).
- (D) END TREATMENT - TANGENT TERMINAL, MNDOT STANDARD PLAN (5-297.612).
- (K) CONCRETE MEDIAN NOSE (UNDIVIDED TO DIVIDED ROADWAY) STANDARD PLATE 7109 (PAID FOR AS 6" CONCRETE WALK). USE MEDIAN NOSE WIDTH OF 4' 0" INSTEAD OF THE 6' 0" MEDIAN NOSE WIDTH THAT IS SHOWN IN THE STANDARD PLAN.



END S.P. 1008-113
END S.P. 010-596-014
TH 41 NB
STA 427+52.00

PLAN SHEET LOCATION



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

Benjamin A. Ulrich
BENJAMIN A. ULRICH
LIC. NO. 59444 DATE 03/14/2025

DESIGNED CJB
DRAWN TWB
CHECKED BAU

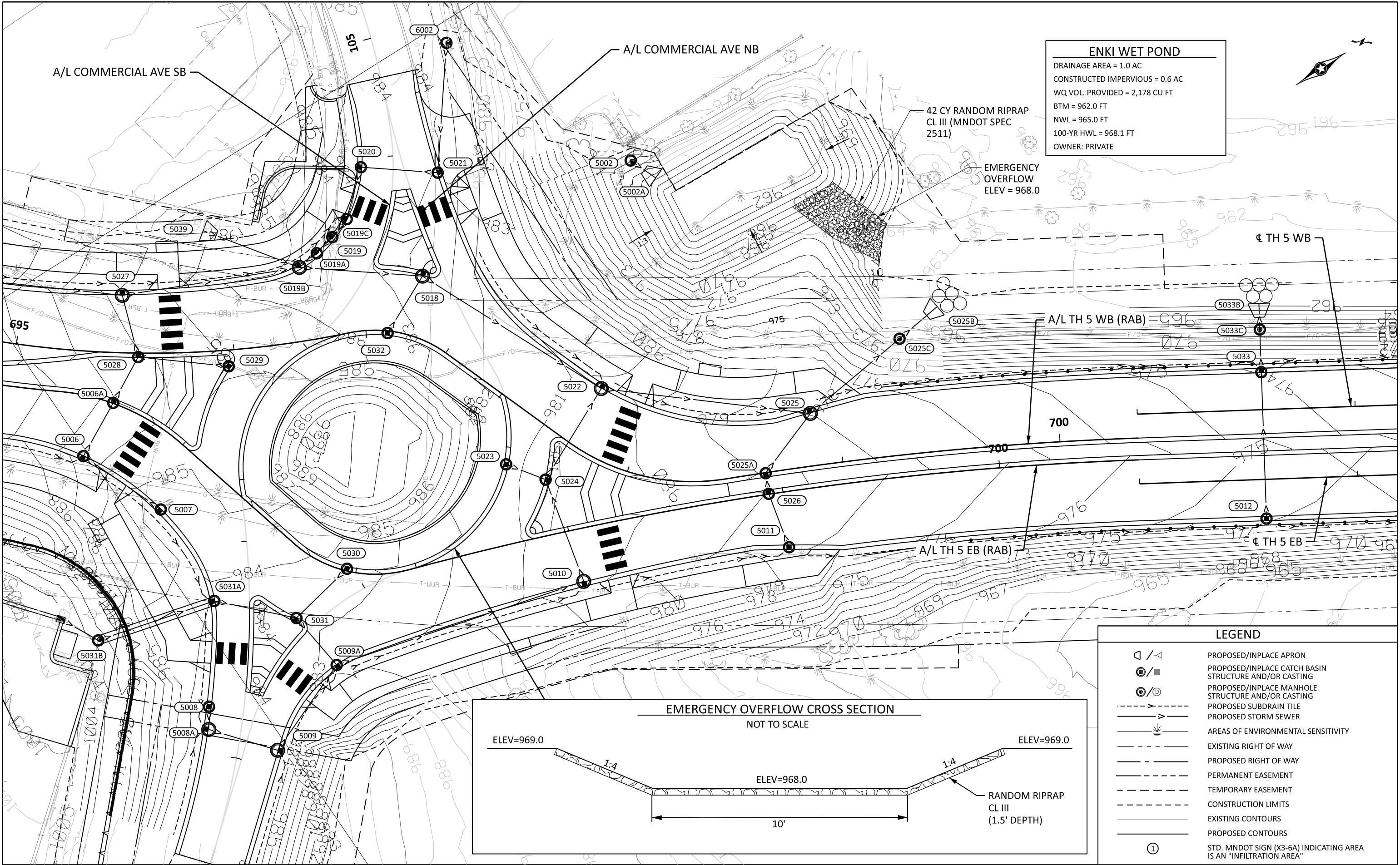
S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

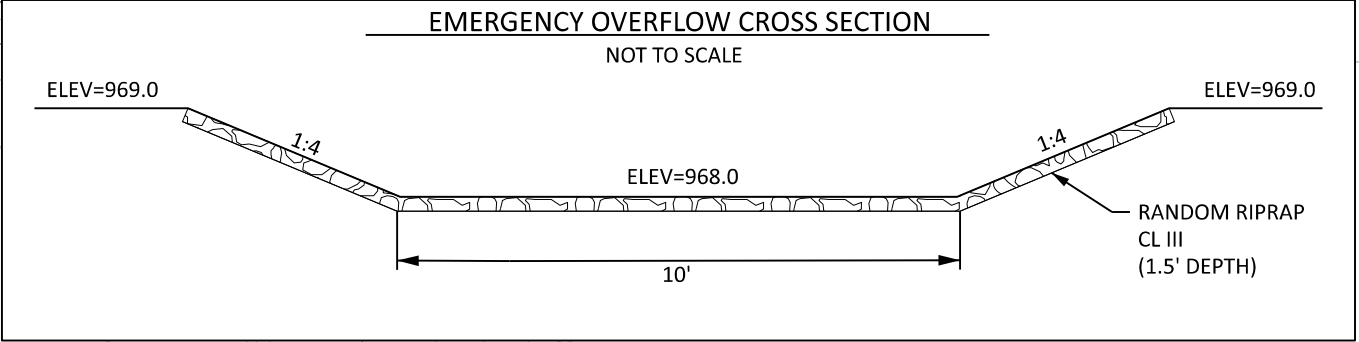
CONSTRUCTION PLANS

SHEET
228
OF
729

014M00197_pen.tbl
H:\COCO\014M00197\CAD\ORD\CACO-014M00197\plans\Pond\cd1002124_230con001.dgn
pdf-B and W.pltcf
2:37:32 PM
John.Perkins
5/12/2025





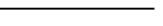

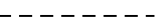
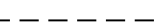


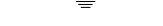
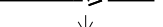
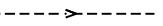



ENKI WET POND
DRAINAGE AREA = 1.0 AC
CONSTRUCTED IMPERVIOUS = 0.6 AC
WQ VOL. PROVIDED = 2,178 CU FT
BTM = 962.0 FT
NWL = 965.0 FT
100-YR HWL = 968.1 FT
OWNER: PRIVATE



LEGEND	
	PROPOSED/INPLACE APRON
	PROPOSED/INPLACE CATCH BASIN STRUCTURE AND/OR CASTING
	PROPOSED/INPLACE MANHOLE STRUCTURE AND/OR CASTING
	PROPOSED SUBDRAIN TILE
	PROPOSED STORM SEWER
	AREAS OF ENVIRONMENTAL SENSITIVITY
	EXISTING RIGHT OF WAY
	PROPOSED RIGHT OF WAY
	PERMANENT EASEMENT
	TEMPORARY EASEMENT
	CONSTRUCTION LIMITS
	EXISTING CONTOURS
	PROPOSED CONTOURS
	STD. MNDOT SIGN (X3-6A) INDICATING AREA IS AN "INFILTRATION AREA"

014M00197_pen.tbl
H:\CADO\014M00197\CAD\ORD\CACO-014M00197\plans\pond\cd1002124_230con002.dgn
pdf-B and W.pltctg
2:37:34 PM
John.Perkins
5/12/2025

LEGEND



PROPOSED/INPLACE APRON

PROPOSED/INPLACE CATCH BASIN STRUCTURE AND/OR CASTING

PROPOSED/INPLACE MANHOLE STRUCTURE AND/OR CASTING

PROPOSED SUBDRAIN TILE

PROPOSED STORM SEWER

AREAS OF ENVIRONMENTAL SENSITIVITY

EXISTING RIGHT OF WAY

PROPOSED RIGHT OF WAY

PERMANENT EASEMENT

TEMPORARY EASEMENT

CONSTRUCTION LIMITS

EXISTING CONTOURS

PROPOSED CONTOURS

STD. MNDOT SIGN (X3-6A) INDICATING AREA IS AN "INFILTRATION AREA"

TRILLIUM FILTRATION BASIN

DRAINAGE AREA = 2.1 AC

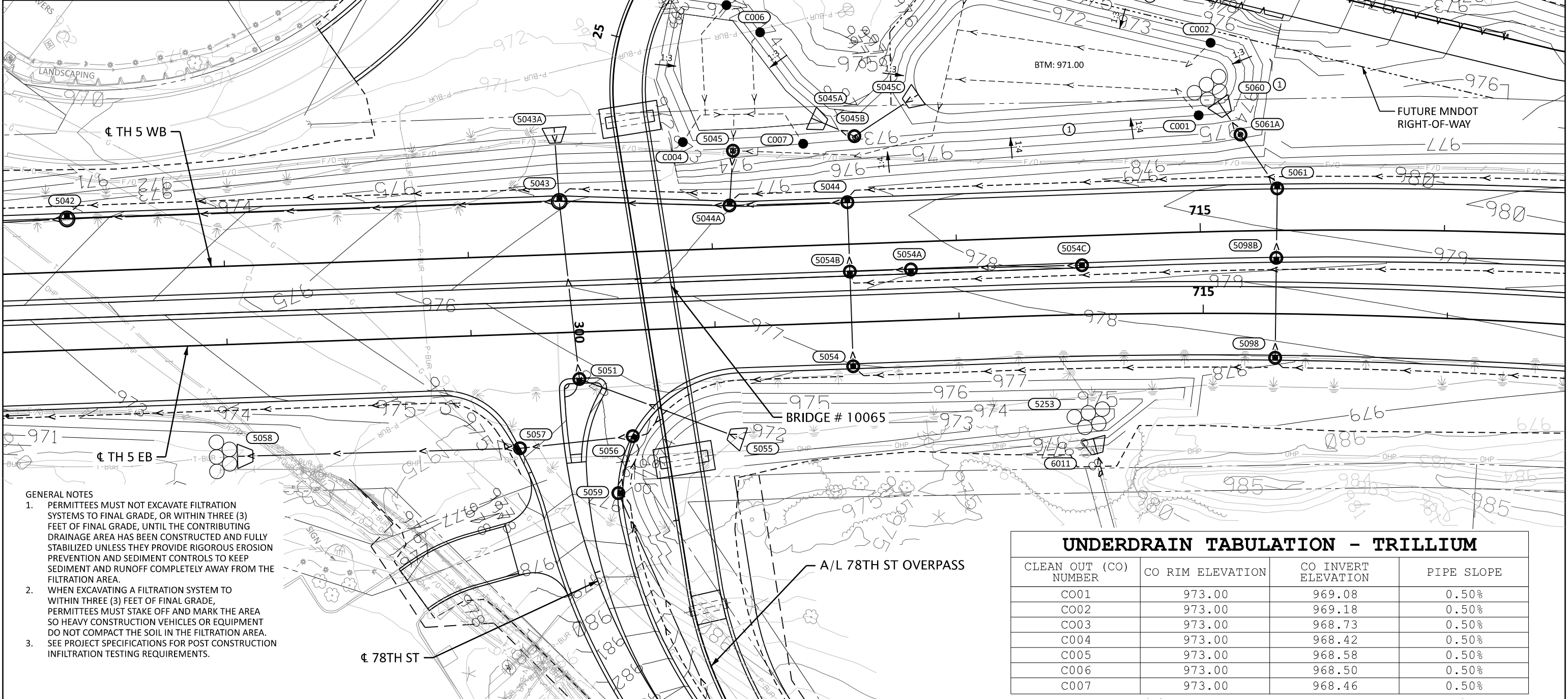
CONSTRUCTED IMPERVIOUS = 0.8 AC

WQ VOL. PROVIDED = 14,318 CU FT

WQ ELEV. = 973.0 FT

100-YR HWL = 973.0 FT

OWNER: MNDOT



- GENERAL NOTES
1.

PERMITTEES MUST NOT EXCAVATE FILTRATION SYSTEMS TO FINAL GRADE, OR WITHIN THREE (3) FEET OF FINAL GRADE, UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN CONSTRUCTED AND FULLY STABILIZED UNLESS THEY PROVIDE RIGOROUS EROSION PREVENTION AND SEDIMENT CONTROLS TO KEEP SEDIMENT AND RUNOFF COMPLETELY AWAY FROM THE FILTRATION AREA.
2.

WHEN EXCAVATING A FILTRATION SYSTEM TO WITHIN THREE (3) FEET OF FINAL GRADE, PERMITTEES MUST STAKE OFF AND MARK THE AREA SO HEAVY CONSTRUCTION VEHICLES OR EQUIPMENT DO NOT COMPACT THE SOIL IN THE FILTRATION AREA.
3.

SEE PROJECT SPECIFICATIONS FOR POST CONSTRUCTION INFILTRATION TESTING REQUIREMENTS.

UNDERDRAIN TABULATION - TRILLIUM

CLEAN OUT (CO) NUMBER	CO RIM ELEVATION	CO INVERT ELEVATION	PIPE SLOPE
C001	973.00	969.08	0.50%
C002	973.00	969.18	0.50%
C003	973.00	968.73	0.50%
C004	973.00	968.42	0.50%
C005	973.00	968.58	0.50%
C006	973.00	968.50	0.50%
C007	973.00	968.46	0.50%

BUCKBEAN INFILTRATION BASIN

DRAINAGE AREA = 5.3 AC
CONSTRUCTED IMPERVIOUS = 2.3 AC
WQ VOL. PROVIDED = 19,565 CU FT
WQ ELEV. = 974.0 FT
100-YR HWL = 975.2 FT
OWNER: MNDOT

A/L 78TH ST OVERPASS

PRETREATMENT
FOREBAY
BTM=970.0

FILTER BERM
47 CY RANDOM RIPRAP
CL III (MNDOT SPEC
2511)

BTM=972.0

EMERGENCY OVERFLOW CROSS SECTION

NOT TO SCALE

ELEV=977.0

ELEV=983.0

ELEV=976.0

20'

RANDOM RIPRAP
CL III
(1.5' DEPTH)

A/L LAKE MINNEWASHTA LRT REGIONAL TRAIL

CAP DRAINTILE IN
STRUCTURE
(INCIDENTAL)

EMERGENCY
OVERFLOW
ELEV = 976.0

138 CY RANDOM
RIPRAP CL III (MNDOT
SPEC 2511)

LEGEND

- PROPOSED/INPLACE APRON
- PROPOSED/INPLACE CATCH BASIN
STRUCTURE AND/OR CASTING
- PROPOSED/INPLACE MANHOLE
STRUCTURE AND/OR CASTING
- PROPOSED SUBDRAIN TILE
- PROPOSED STORM SEWER
- AREAS OF ENVIRONMENTAL SENSITIVITY
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- CONSTRUCTION LIMITS
- EXISTING CONTOURS
- PROPOSED CONTOURS
- STD. MNDOT SIGN (X3-6A) INDICATING AREA
IS AN "INFILTRATION AREA"

GENERAL NOTES

- PERMITTEES MUST NOT EXCAVATE INFILTRATION
SYSTEMS TO FINAL GRADE, OR WITHIN THREE (3)
FEET OF FINAL GRADE, UNTIL THE CONTRIBUTING
DRAINAGE AREA HAS BEEN CONSTRUCTED AND FULLY
STABILIZED UNLESS THEY PROVIDE RIGOROUS EROSION
PREVENTION AND SEDIMENT CONTROLS TO KEEP
SEDIMENT AND RUNOFF COMPLETELY AWAY FROM THE
INFILTRATION AREA.
- WHEN EXCAVATING AN INFILTRATION SYSTEM TO
WITHIN THREE (3) FEET OF FINAL GRADE,
PERMITTEES MUST STAKE OFF AND MARK THE AREA
SO HEAVY CONSTRUCTION VEHICLES OR EQUIPMENT
DO NOT COMPACT THE SOIL IN THE INFILTRATION AREA.
- SEE PROJECT SPECIFICATIONS FOR POST CONSTRUCTION
INFILTRATION TESTING REQUIREMENTS.

UNDERDRAIN TABULATION - BUCKBEAN

CLEAN OUT (CO) NUMBER	CO RIM ELEVATION	CO INVERT ELEVATION	PIPE SLOPE
C006	975.00	970.52	0.50%
C007	975.00	970.58	0.50%
C008	975.00	969.10	0.50%

0 20 40
SCALE FEET



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: BurnsVille@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

JOHN L. PERKINS
LIC. NO. 56278
DATE 03/14/2025

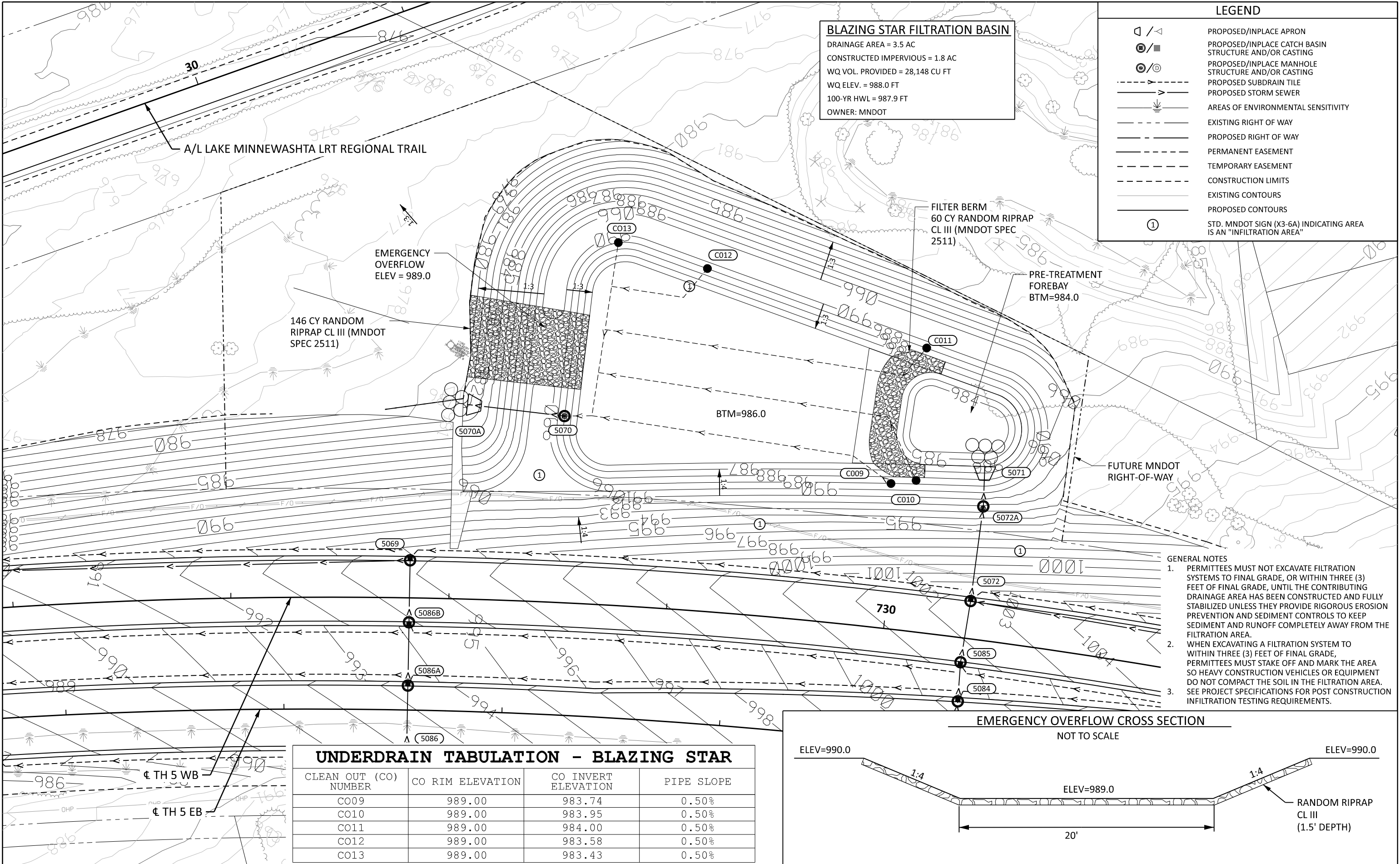
DESIGNED
GMG
DRAWN
MMH
CHECKED
JLP

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION
POND GRADING PLANS

SHEET
531
OF
729

014M00197_pen.tbl
H:\CACO\014M00197\CAD\ORD\CACO-014M00197\plans\Pond\cd1002124_230con004.dgn
pdf-B and W.pltctg
2:37:37 PM
John.Perkins
5/12/2025
Default



BOLTON & MENK

12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

JOHN L. PERKINS
LIC. NO. 56278
DATE 03/14/2025

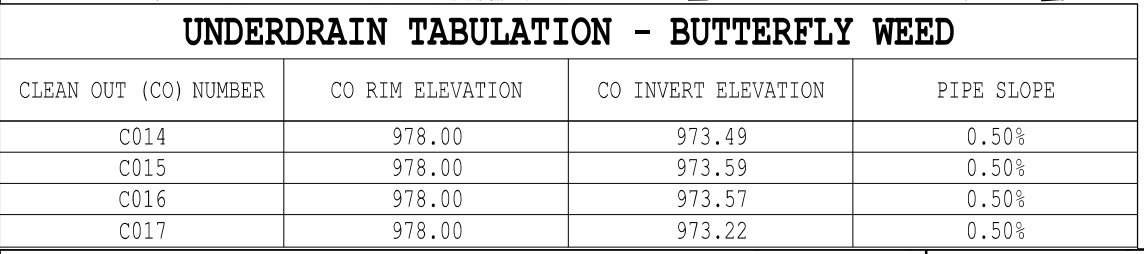
DESIGNED
GMG
DRAWN
MMH
CHECKED
JLP

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

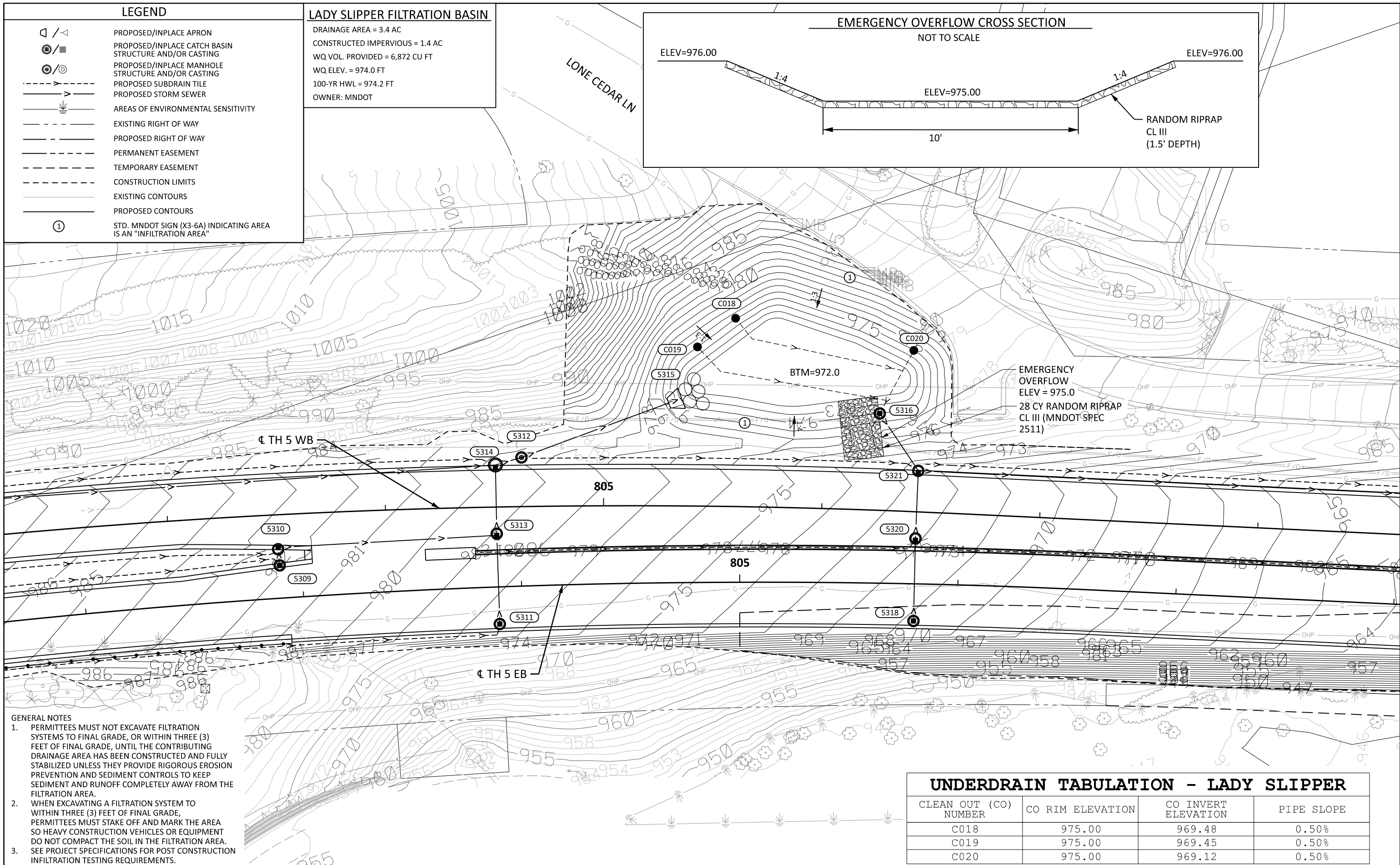
TH 5 RECONSTRUCTION

POND GRADING PLANS

SHEET
532
OF
729



LADY SLIPPER FILTRATION BASIN
DRAINAGE AREA = 3.4 AC
CONSTRUCTED IMPERVIOUS = 1.4 AC
WQ VOL. PROVIDED = 6,872 CU FT
WQ ELEV. = 974.0 FT
100-YR HWL = 974.2 FT
OWNER: MNDOT



UNDERDRAIN TABULATION - LADY SLIPPER			
CLEAN OUT (CO) NUMBER	CO RIM ELEVATION	CO INVERT ELEVATION	PIPE SLOPE
C018	975.00	969.48	0.50%
C019	975.00	969.45	0.50%
C020	975.00	969.12	0.50%

LEGEND	
	PROPOSED/INPLACE APRON
	PROPOSED/INPLACE CATCH BASIN STRUCTURE AND/OR CASTING
	PROPOSED/INPLACE MANHOLE STRUCTURE AND/OR CASTING
	PROPOSED SUBDRAIN TILE
	PROPOSED STORM SEWER
	AREAS OF ENVIRONMENTAL SENSITIVITY
	EXISTING RIGHT OF WAY
	PROPOSED RIGHT OF WAY
	PERMANENT EASEMENT
	TEMPORARY EASEMENT
	CONSTRUCTION LIMITS
	EXISTING CONTOURS
	PROPOSED CONTOURS
	STD. MNDOT SIGN (X3-6A) INDICATING AREA IS AN "INFILTRATION AREA"

DRAINAGE AREA = 9.7 AC
CONSTRUCTED IMPERVIOUS = 4.1 AC
WQ VOL. PROVIDED = 27,270 CU FT
WQ ELEV. = 953.5
100 YR HWL = 954.7 FT
OWNER: MNDOT

EMERGENCY OVERFLOW CROSS SECTION

NOT TO SCALE

ELEV=957.0

1:4

ELEV=956.0

20'

1:4

ELEV=957.0

RANDOM RIPRAP
CL III
(1.5' DEPTH)

1. PERMITTEES MUST NOT EXCAVATE FILTRATION SYSTEMS TO FINAL GRADE, OR WITHIN THREE (3) FEET OF FINAL GRADE, UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN CONSTRUCTED AND FULLY STABILIZED UNLESS THEY PROVIDE RIGOROUS EROSION PREVENTION AND SEDIMENT CONTROLS TO KEEP SEDIMENT AND RUNOFF COMPLETELY AWAY FROM THE INFILTRATION AREA.
2. WHEN EXCAVATING A FILTRATION SYSTEM TO WITHIN THREE (3) FEET OF FINAL GRADE, PERMITTEES MUST STAKE OFF AND MARK THE AREA SO HEAVY CONSTRUCTION VEHICLES OR EQUIPMENT DO NOT COMPACT THE SOIL IN THE INFILTRATION AREA.
3. SEE PROJECT SPECIFICATIONS FOR POST CONSTRUCTION INFILTRATION TESTING REQUIREMENTS.

EMERGENCY
OVERFLOW (ELEV = 956.0)

PRE-TREATMENT
FOREBAY
BTM=950.0

CAP DRAINTIL
STRUCTURE
(INCIDENTAL)

UNDERDRAIN TABULATION - BOG ASTER			
CLEAN OUT (CO) NUMBER	CO RIM ELEVATION	CO INVERT ELEVATION	PIPE SLOPE
CO21	953.00	949.61	0.50%
CO22	953.00	950.41	0.50%
CO23	955.00	950.46	0.50%
CO24	955.00	950.19	0.50%



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burnsville@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

JOHN L. PERKINS
LIC. NO. 56278

DATE 03/14/2025

DESIGNED
GMG

DRAWN
MMH

CHECKED
JLP

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

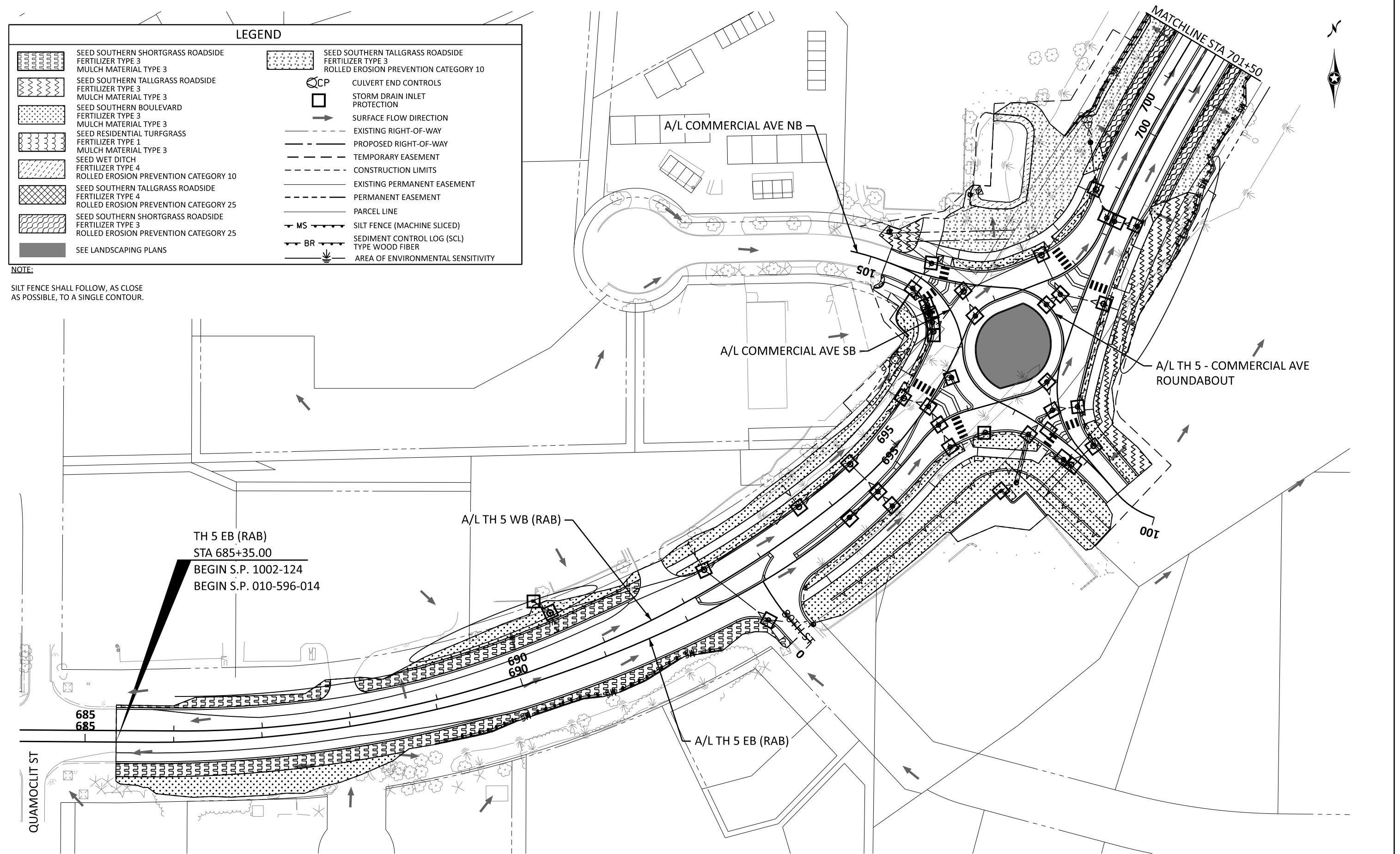
TH 5 RECONSTRUCTION

POND GRADING PLANS

SHEET
535
OF
729



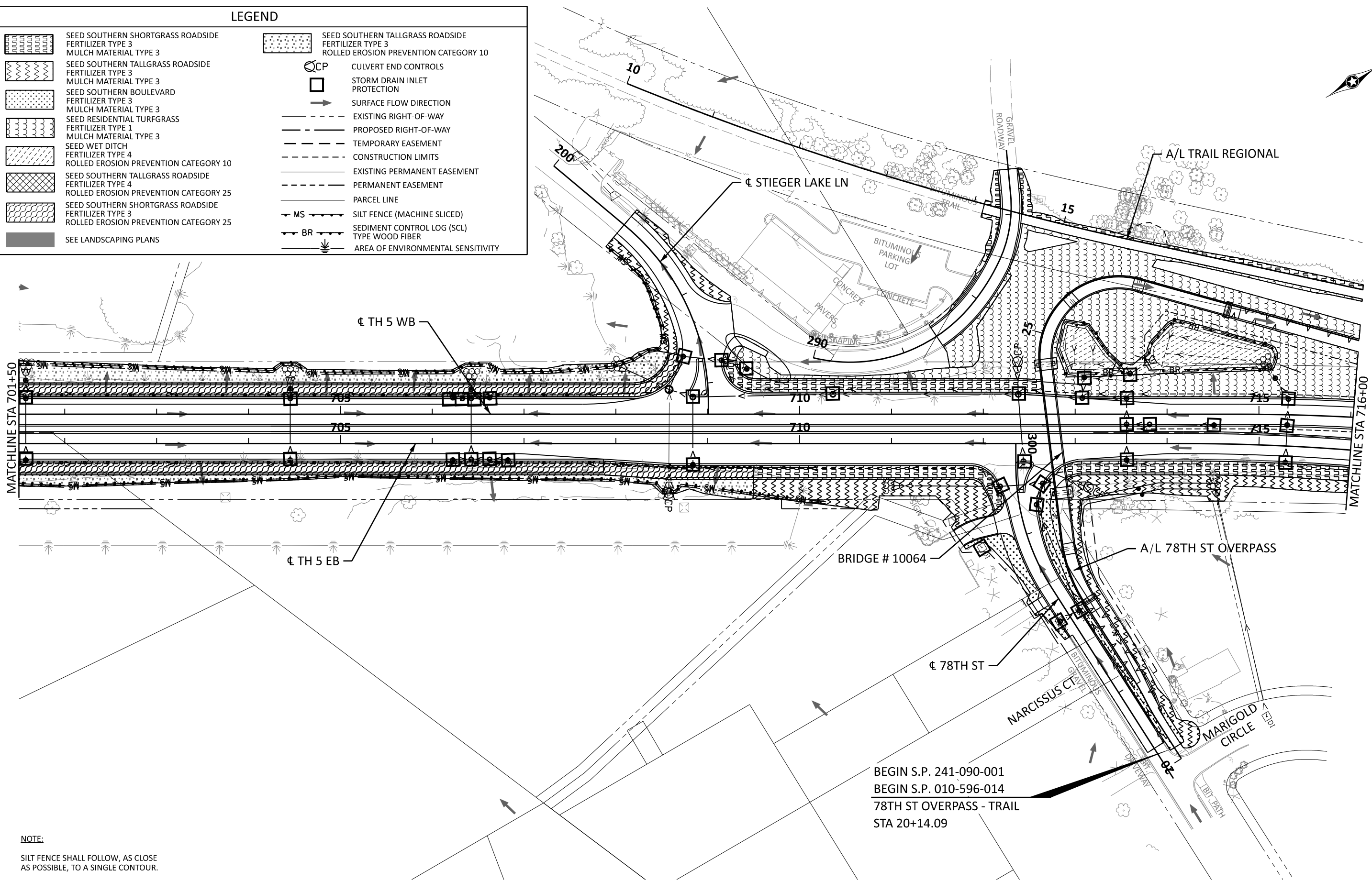
John.Perkins
5/6/2025
8:39:57 PM
pdf-B and W.plt
H:\CACO\074M00197\CAD\ORD\CACO-074M00197\plans\Turf\cd1002124_325step001.dgn



OT4M00197_pen.tbl
H:\COCO\OT4M00197\CAD\ORD\CACO-OT4M00197\plans\Turf\cd1002124_325step002.dgn
pdf-B and W.plt
8:39:59 PM
John.Perkins
5/6/2025

LEGEND

	SEED SOUTHERN SHORTGRASS ROADSIDE FERTILIZER TYPE 3		SEED SOUTHERN TALLGRASS ROADSIDE FERTILIZER TYPE 3
	MULCH MATERIAL TYPE 3		ROLLED EROSION PREVENTION CATEGORY 10
	SEED SOUTHERN TALLGRASS ROADSIDE FERTILIZER TYPE 3		CULVERT END CONTROLS
	SEED SOUTHERN BOULEVARD FERTILIZER TYPE 3		STORM DRAIN INLET PROTECTION
	MULCH MATERIAL TYPE 3		SURFACE FLOW DIRECTION
	SEED RESIDENTIAL TURFGRASS FERTILIZER TYPE 1		EXISTING RIGHT-OF-WAY
	MULCH MATERIAL TYPE 3		PROPOSED RIGHT-OF-WAY
	SEED WET DITCH FERTILIZER TYPE 4		TEMPORARY EASEMENT
	ROLLED EROSION PREVENTION CATEGORY 10		CONSTRUCTION LIMITS
	SEED SOUTHERN TALLGRASS ROADSIDE FERTILIZER TYPE 4		EXISTING PERMANENT EASEMENT
	ROLLED EROSION PREVENTION CATEGORY 25		PERMANENT EASEMENT
	SEED SOUTHERN SHORTGRASS ROADSIDE FERTILIZER TYPE 3		PARCEL LINE
	ROLLED EROSION PREVENTION CATEGORY 25		SILT FENCE (MACHINE SLICED)
	SEE LANDSCAPING PLANS		SEDIMENT CONTROL LOG (SCL) TYPE WOOD FIBER
			AREA OF ENVIRONMENTAL SENSITIVITY



NOTE:
SILT FENCE SHALL FOLLOW, AS CLOSE
AS POSSIBLE, TO A SINGLE CONTOUR.

BEGIN S.P. 241-090-001
BEGIN S.P. 010-596-014
78TH ST OVERPASS - TRAIL
STA 20+14.09



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: BurnsVille@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

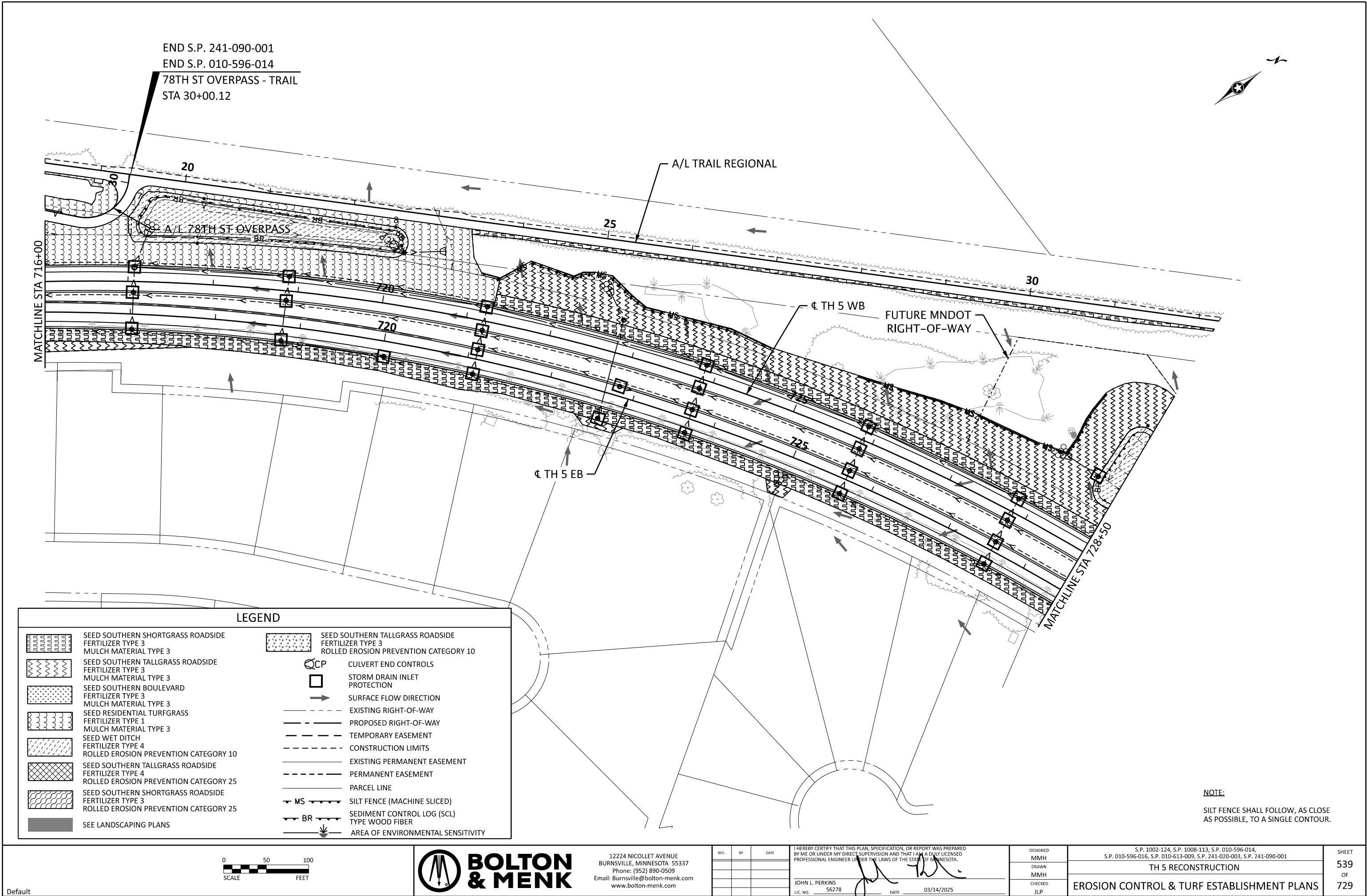
JOHN L. PERKINS
LIC. NO. 56278
DATE 03/14/2025

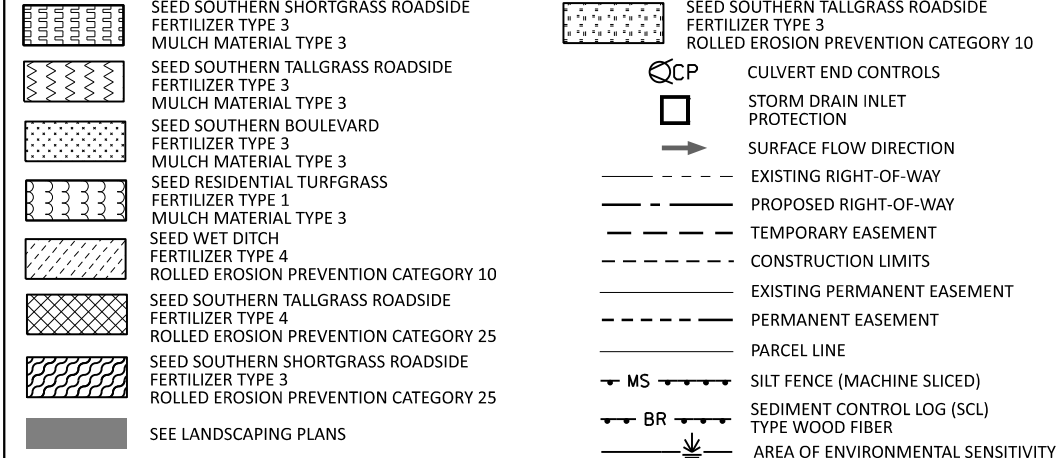
DESIGNED
MMH
DRAWN
MMH
CHECKED
JLP

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001
TH 5 RECONSTRUCTION
EROSION CONTROL & TURF ESTABLISHMENT PLANS

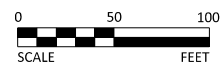
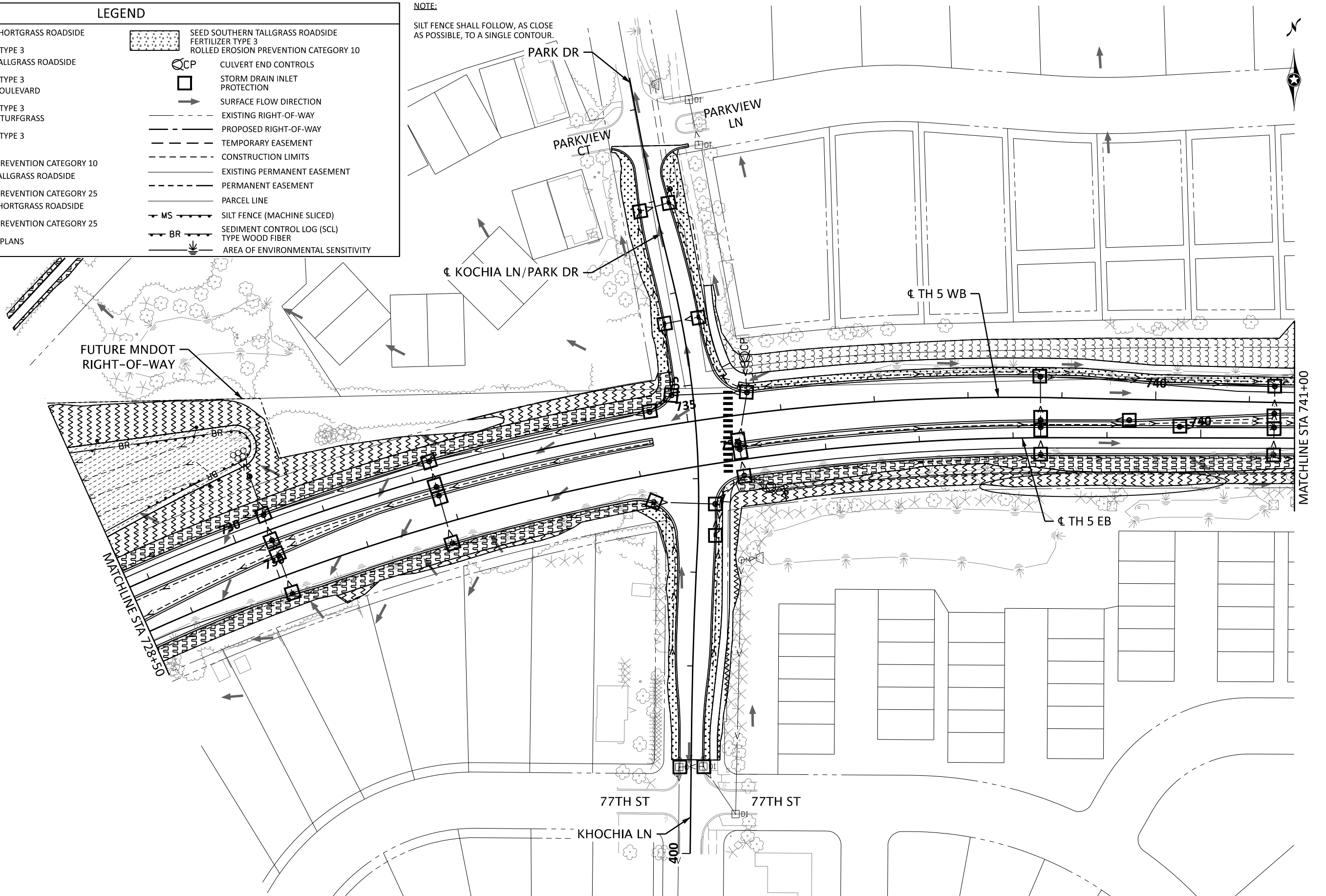
SHEET
538
OF
729

John.Perkins 5/6/2025
pdf-B and W.pltcfgr
8:40:00 PM
H:\CACO\074M00197\CAD\ORD\CACO-074M00197\plans\Turf\cd1002124_325step003.dgn
074M00197_pen.tbl





SILT FENCE SHALL FOLLOW, AS CLOSE AS POSSIBLE, TO A SINGLE CONTOUR.



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burnsville@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

JOHN L. PERKINS
LIC. NO. 56278

DATE 03/14/2025

DESIGNED	MMH
DRAWN	MMH
CHECKED	JLP

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

EROSION CONTROL & TURF ESTABLISHMENT PLANS

SHEET
40
OF
29

John Perkins
5/6/2025
pdf-B and W.pltcf
8:40:02 PM
H:\CACO\074M00197\CAD\ORD\CACO-074M00197\plans\Turf\cd1002124_325step005.dgn
074M00197_pen.tbl

LEGEND

SEED SOUTHERN SHORTGRASS ROADSIDE
FERTILIZER TYPE 3

MULCH MATERIAL TYPE 3

SEED SOUTHERN TALLGRASS ROADSIDE
FERTILIZER TYPE 3

SEED SOUTHERN BOULEVARD
FERTILIZER TYPE 3

SEED RESIDENTIAL TURFGRASS
FERTILIZER TYPE 1

SEED WET DITCH
FERTILIZER TYPE 4

ROLLED EROSION PREVENTION CATEGORY 10

SEED SOUTHERN TALLGRASS ROADSIDE
FERTILIZER TYPE 4

ROLLED EROSION PREVENTION CATEGORY 25

SEED SOUTHERN SHORTGRASS ROADSIDE
FERTILIZER TYPE 3

ROLLED EROSION PREVENTION CATEGORY 25

SEE LANDSCAPING PLANS

CULVERT END CONTROLS

STORM DRAIN INLET
PROTECTION

SURFACE FLOW DIRECTION

EXISTING RIGHT-OF-WAY

PROPOSED RIGHT-OF-WAY

TEMPORARY EASEMENT

CONSTRUCTION LIMITS

EXISTING PERMANENT EASEMENT

PERMANENT EASEMENT

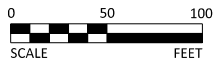
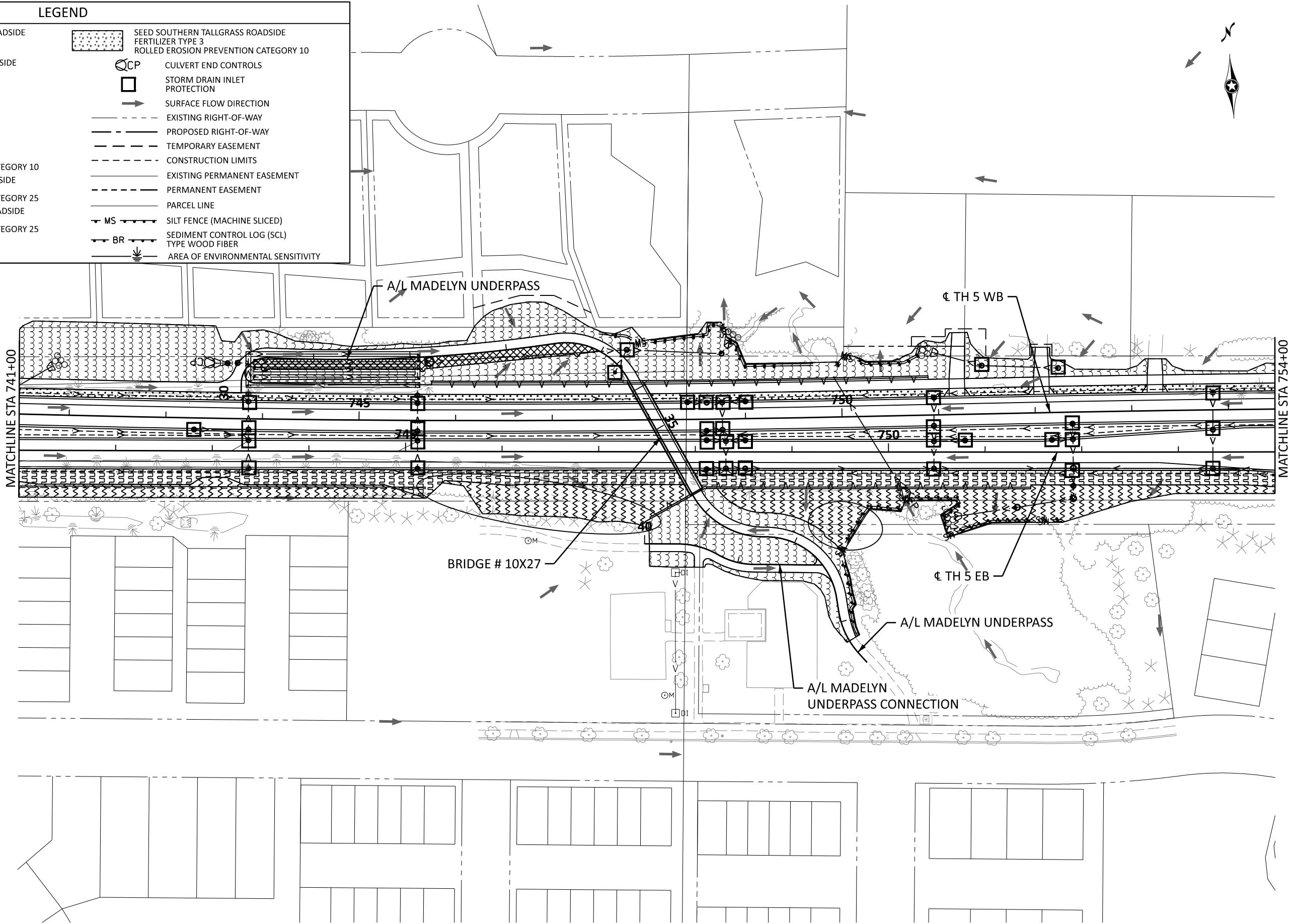
PARCEL LINE

SILT FENCE (MACHINE SLICED)

SEDIMENT CONTROL LOG (SCL)
TYPE WOOD FIBER

AREA OF ENVIRONMENTAL SENSITIVITY

NOTE:
SILT FENCE SHALL FOLLOW, AS CLOSE
AS POSSIBLE, TO A SINGLE CONTOUR.



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burns@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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.

JOHN L. PERKINS
LIC. NO. 56278
DATE 03/14/2025

DESIGNED
MMH
DRAWN
MMH
CHECKED
JLP

S.P. 1002-124, S.P. 1008-113, S.P. 010-596-014,
S.P. 010-596-016, S.P. 010-613-009, S.P. 241-020-003, S.P. 241-090-001

TH 5 RECONSTRUCTION

EROSION CONTROL & TURF ESTABLISHMENT PLANS

SHEET
541
OF
729