

Public Works Committee

Thursday, August 13, 2020

6:00 PM

McFarland Municipal Center
Community Room

AGENDA

You are invited to this meeting through a Zoom webinar. The Public is strongly encouraged to watch and participate in these meetings remotely through either the webinar or telephone options listed below.

Join the webinar: <https://us02web.zoom.us/j/86277861336>

Or By Telephone:

Dial US: +1 (312) 626-6799

Webinar ID: 862 7786 1336

1. CALL TO ORDER, ROLL CALL.
2. PUBLIC APPEARANCES.
3. APPROVAL OF MINUTES.
 - a. Discussion and action regarding the minutes from the Public Works meeting held on July 14, 2020.
4. BUSINESS.
 - a. Discussion and recommendation to the Village board regarding tree planting proposals for 2020.
 - b. Discussion and recommendation to the Village board regarding speed study on Bremer Road.
 - c. Discussion on 60% plan design of Hwy MN Phase 4 road project
 - d. Discuss and schedule a public input session regarding Hwy MN Phase 4 road project
 - e. Presentation of the monthly Public Works Director's report
5. SCHEDULE NEXT MEETING DATE.
 - a. Tuesday September 8, 2020 at 6:00 p.m.
6. ADJOURNMENT.

This meeting notice constitutes an official meeting of the above referenced group and was posted in accordance with all applicable laws related to Open Meetings Law. It is possible that members of and possibly a quorum of members of other governmental bodies of the municipality may be in attendance at the above stated meeting to gather information. No action will be taken by any governmental body at the above stated meeting other than the governmental body specifically referred to above in this notice. Upon

reasonable notice, efforts will be made to accommodate the needs of disabled individuals. For additional information or to request this service, contact the McFarland Municipal Center at (608) 838-3153 or cassandra.suettinger@mcfarland.wi.us.

VILLAGE OF MCFARLAND

Public Works Committee Minutes

Tuesday July 13, 2020 – 6:00 P.M.

1. CALL TO ORDER, ROLL CALL

The meeting was called to order by Village Trustee and Committee Chairperson Carolyn Clow at 6:00 p.m. This meeting was held via Zoom.

Members present: Village Trustee Justin Rupert, Chris Fredrick, Marv Meyers, Jerry Adrian

Staff present: Jim Hessling (Director of Public Works/Utilities), Lee Igl (Public Works Superintendent), Aimee Irwin (Assistant to the Director), Brian Berquist (Town & Country Engineering)

2. PUBLIC APPEARANCES

None

3. APPROVAL OF MINUTES

- a. Discussion and action regarding the minutes from the Public Works meeting held on June 9, 2020.
 - a. Motion by Jerry Adrian to approve minutes as presented. Seconded by Marv Meyers. Motion passed 5-0-0.

4. BUSINESS

- a. Discussion and action to make a recommendation to the Village Board regarding a street light additional located at Lee South Court.
 - Jim Hessling provided background regarding the street light request at Lee South Court.
 - Committee members discussed the request. Chris Fredrick asked if a written policy exists for streetlight requests. Jim Hessling stated he is unaware of such a policy.
 - Motion by Chris Fredrick recommending the installation of a street light at Lee South Court and creation of a street light policy to the Village Board. Seconded by Justin Rupert. Motion passed 5-0-0
- b. Discussion and action to make a recommendation regarding a sight line concern located at the intersection of Lani Lane and Highland Drive.
 - Jim Hessling provided background regarding a sight line concern located at the intersection of Lani Lane and Highland Drive.
 - Lee Gibbs with SRF completed a site review of the area and reviewed his recommendations which were included in the enclosed memorandum. His recommendations included moving the stop bar and stop sign and possible trimming of the brush or vegetation in the area.

- Committee members discussed the request and recommendations provided by Lee Gibbs. Marv Meyers stated that the vegetation present in this area may be in the right-of-way which could be trimmed. Chris Fredrick clarified if ordinances exist related to sightlines at intersections. Carolyn Clow states that Section 59-27 relates to trees and shrubbery obstructing view at intersection or view of traffic signs.
 - Motion by Jerry Adrian recommending the movement of the stop bar and stop sign located on Highland Drive along with, if necessary, contacting the resident regarding vegetation trimming in connection to Section 59-27. Seconded by Marv Meyers. Motion passed 5-0-0.
- c. Presentation of the Public Works Monthly Report from the Director.
- Jim Hessling provided an update on public works activities in the Village for the month of June 2020.
5. SCHEDULE NEXT MEETING DATE
- a. Tuesday August 11, 2020 at 6:00 pm
6. ADJOURNMENT
- a. Motion by Chris Fredrick to adjourn at 6:37 p.m. Seconded by Jerry Adrian. Motion passed 5-0-0.

Respectfully submitted by Aimee Irwin



VILLAGE BOARD SUMMARY SHEET

MEETING DATE: Thursday, August 13, 2020

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Sayer Larson, Parks Superintendent, Jim Hessling, Public Works Director

AGENDA ITEM: Discussion and recommendation to the Village board regarding tree planting proposals for 2020.

PREVIOUS ACTION:

This item was introduced at the 6/9/20 Public Works committee meeting with a recommendation to send on the Village Board.

The Village Board approved the letting of the proposal at their 6/22/20 meeting.

ISSUE SUMMARY:

As part of our annual tree planting program, we once again asked for proposals on purchasing street trees along with their installation. The intent when the proposal was set up was to be such so that we can vary the quantity of trees needed so we do not overspend the budget.

We solicited four proposals and of those four, we received three proposals back from vendors. Of those three, only one submitted all of the requested information. The preferred and recommended vendor, Srb Trees was not the lowest in price, although their proposal was complete.

We will be notifying residents that we will be planting a tree, or trees, along their frontage. As part of this letter, we will evaluate tree locations if the resident requests it. Residents will not be able to select the species of tree to be planted.

FINANCIAL/BUDGET IMPACT:

There are funds in the budget to cover a portion of this purchase.

VILLAGE PLAN REFERENCE:

None.

ORDINANCE REFERENCE:

None.

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:



ATTACHMENTS:

1. 2020 Tree Specs & RFP form
2. Bid review for proposals for 2020 tree planting

**BID & SPECIFICATIONS FOR
Village of McFarland, Wisconsin**

PROJECT: 2020 Street Tree Planting

OWNER: Village of McFarland
5915 Milwaukee St. P.O. Box 110
McFarland, WI 53518-0110

CONTACT: Jim Hessling, Director of Public Works (608) 838-7287
Sayer Larson, Parks Superintendent (608) 838-7287

Bids will be accepted by **mail or electronically only** until 3:00 P.M. local time Thursday July 30, 2020.

Physical address: Village of McFarland
5915 Milwaukee Street
McFarland, WI 53558-0110
Attn: 2020 Tree Bids

E-mail address: public.works@mcfarland.wi.us
5915 Milwaukee Street
McFarland, WI 53558-0110
Subject line: 2020 Tree Bids

The village is not responsible for any submitted bids that do arrive to us, whatever the reason may be.

QUALIFICATIONS:

Bidders shall provide example of one to three (1-3) prior projects (similar in scope and scale) along with references as part of the bid.

RIGHTS RESERVED:

The Village of McFarland reserves the right to reject any and all bids, for whatever reason, and to waive any informalities in bids or in the bid process. No Bidder may withdraw a bid within 60 days after the actual date of the opening of the bids.

Intent of Specifications

The attached specifications and instructions are intended for bid of plant materials and installation in quantities and species as listed. Quantities may vary subject to funding. Please note the following;

- The exact planting locations will be provided by the Village and/ or Village's representative.
- Furnishing plant materials and installation of material shall conform to the dates as detailed per the specifications.
- No substitutions in sizing, container type or species/cultivar are allowed without prior written approval from the Village and/or Village's representative.

Site Inspection

It is recommended that all bidders become familiar with existing field conditions and planting sites prior to preparing the bid.

Guarantee

All plant material and plantings shall be guaranteed for one (1) year after planting. This is a one-time replacement for each tree. Planting stock will be maintained and watered during this year by residents and Village staff. Contractor shall conduct a site walk through and review with the Village staff upon completion of planting, a minimum of one (1) additional walk-through during the first planting season and one final walk through prior to the end of the guarantee. All failed plant material shall be replaced as soon as possible as mutually agreed upon date.

Supervision

The Village of McFarland and representative shall inspect and approve all plant material and installation and may provide a full-time inspection of the work on site. Should any dispute arise with regard to quality of material and workmanship as detailed in the specifications, both parties will work jointly to resolve the issue(s), but the final decision shall rest entirely with the Village.

Any plant material not meeting quality and specifications shall be returned immediately.

Labor, Equipment, Permits, Etc.

Contractor shall furnish at their own cost and expense all transportation, labor, materials, and equipment needed to perform the work in the highest quality manner possible according to the specifications. The contractor shall have a competent foreman/ supervisor on-site the entire duration of the project. All project work shall be completed in accordance to the specifications, local and state codes. All permits and approval costs shall be borne by the contractor.

Pre-Planting Conference

The selected contractor shall arrange a meeting with the Village's representative prior to the start of the planting project. This meeting will provide a review of all aspects of the program and ensure that all requirements, specifications and the project schedule are understood. Planting locations will be determined by the Village prior to work.

Utilities Coordination

The contractor shall be responsible for contacting and notifying local utilities (digger's hotline) as to the area of work and timing of the work. Village shall mark all proposed tree locations prior to contacting digger's hotline. Contractor shall notify the Village's representative of any conflicting planting location. In the case of location conflicts, the Village's representative will work with the contractor to propose a mutually agreed upon location for the planting.

Observation of Applicable Laws

The awarded contractor shall observe and comply with all state and local laws and ordinances or regulations which in any manner affect the conduct of this work. Contractor shall indemnify and hold harmless the Village of McFarland, its representative and all of its officers, agents and employees against any and all claims for any material other liability arising from or based upon the conduct of work or violations of any law, ordinance, regulation, or order, whether by contractor or contractor's employees.

Prior Project Work

Contractor shall provide example of 1-3 prior projects (similar in scope and scale) along with references as part of the bid.

Insurance Requirements

Contractor is to carry their own Liability, Auto and Worker's Compensation Insurance. The Contractor is to furnish a copy of insurance of at least \$1,000,000.00 protection, to the Village, against any accident claims that may be made by the owners and or employees of said Contractor prior to starting. Contractor must show proof of insurance as part of the bid.

Scope of Work

The contract award includes plant material and installation of the specified number of trees as listed by species, cultivar and size. Installation includes digging and preparing the planting hole, setting the specified tree, back-filling with appropriate material, restoration of the planting area, mulching, staking (as required) and initial watering. In addition, the contractor shall place and fill irrigation bags as provided by the Village. All work must be performed in accordance the following specifications.

1. All plants shall be premium grade stock, regionally grown in planting zones 4 or 5A. Caliper size is determined at 6" above the root flare. Heights are determined by distance from top of root flare to top of branches.
2. All planting stock shall have well-formed, typical uniform branching, free of disease, insects and mechanical injury, with a well-developed root system, straight trunk and defined leader.
3. Trees shall be furnished as specified by size, root type, species and cultivar.
4. All trees shall conform to American Nursery Standard for Nursery Stock (ANSI Z60.1-2004).
5. All plants shall be tagged securely, identifying species, size and grower.
6. Plants shall be protected properly from weather and handling during transit.
7. All prices shall include deliver to the planting sites and installation as described in the scope of work.
8. All bare root plantings shall be staked.
9. Village staff or representative may reject any trees or work that does not meet specifications.
10. Village staff and representative must be notified at least three (3) days prior to arrival of materials by to arrange inspection of plant material at delivery.
11. The contractor shall provide as-built plans detailing location and plant species no more than 30 days after completion.
12. **All work shall be completed prior to November 1, 2020.**

Planting Specifications

1. Terrace planting locations will be marked with paint and stake by Village. Contractor will be provided an address and species list and will be responsible for planting the proper species at the listed address.
2. Sod shall be removed from the planting site and not used to refill the hole. Each hole shall be dug to match the root depth of the tree. Additional loose soil shall be then placed on the root system in a manner that will eliminate voids and air pockets. Any additional topsoil needed to fill the tree pits shall be furnished by the contractor.
3. All debris shall be removed from planting sites and disposed of properly.
4. All planting hole shall be dug a minimum of 6" wider than the farthest extending root. Trees shall be centered in each hole. If an auger is used, holes shall be cleaned out by hand to accommodate root structures. Prune damaged roots. The tree shall be planted so the soil is "dished" to facilitate watering. All bare root stock must stay moist from nursery to the time of planting and shall be wrapped in wet straw and plastic. Roots shall be dipped in or treated with a root stimulator one day prior to planting. Bare root

plants shall be backfilled halfway and watered with approximately 5 gallons of water to compact the soil and remove air pockets. Continue backfilling until planted at proper depth and water again with 3-5 gallons of water.

5. All trees shall be planted where the root flare meets the soil grade of the site. If root flare is not found on balled and burlapped tree, contractor shall remove excess soil to expose the root flare at the proper depth. Trees not planted at the proper depth shall be rejected.
6. Any minor damage to branches or root system shall be pruned and clean as instructed by the Village.
7. All trees shall be mulched with 3-4" of double shredded hardwood mulch. "Mulch rings" shall be a 3-4' diameter or at least 6" past disturbed grade, whichever is greater. Mulch shall be "dish" shaped to help facilitate watering. No mulch shall be placed on the trunk.
8. Contractor shall be responsible for initial watering and placement and filling of irrigation bags as provided by the Village.
9. All bare root trees shall be staked with 2" square Oak posts, furnished by the contractor. Trees shall be firmly cross-tied to the stakes with nylon webbing. The Village may identify additional trees to be staked as needed. Contractor to provide written pricing for additional staking of trees at the time the bid is submitted.
10. All balled & burlapped trees shall be set properly in the planting pit and arranged to sit properly. Binding cord shall then be cut and removed. Wire cage shall be removed or pulled back from the top 1/3 of the ball and burlap in this area shall be removed.
11. Container grown trees shall have the pots removed and roots sliced vertically.
12. Contractor shall follow instructions for grow bags as provided by the grower.

Published by the authority of:

Matt Schuenke

Village Administrator

Plant Schedule

McFarland 2020 Plant Schedule

Example					
Variety	Species	Size	Qty	Price each (installed)	Sub Total
American Redbud	Cercis canadensis	1 1/2" B&B	7	123.45	\$864.15
Patriot Elm	Ulmus 'Patriot'	1 1/2" B&B	9	678.9	\$6,110.10
Ginkgo	Ginkgo biloba 'Autumn Gold'	1 1/2" B&B	2	456.78	\$913.56
			Total	18	
				Grand Total	\$7,887.81

Variety	Species	Size	Qty	Price each (installed)	Sub Total
Bur Oak	Quercus macrocarpa	1½ inch B&B	30		
Autumn Blaze Maple	Acer x freemanii	1½ inch B&B	12		
Red Sunset Maple	Acer rubrum 'Franksred'	1½ inch B&B	12		
American Redbud	Cercis canadensis	1½ inch B&B	15		
Winter King Hawthorne	Crataegus viridis 'Winter King'	1½ inch B&B	12		
Ginkgo	Ginkgo biloba 'Autumn Gold'	1½ inch B&B	12		
Ohio Buckeye	Aesculus glabra	1½ inch B&B	25		
Common Hackberry	Celtis occidentalis	1½ inch B&B	12		
Patriot Elm	Ulmus 'Patriot'	1½ inch B&B	15		
Redmond Linden	Tilia americana 'Redmond'	1½ inch B&B	12		
Skyline Honey Locust	Gleditsia triacanthos 'Skycole'	1½ inch B&B	12		
Norhtern Red Oak	Quercus rubra	1½ inch B&B	15		
Cherry - Chokecherry	Prunus virginiana 'Chokecherry'	1½ inch B&B	15		
				Grand Total	

THE VILLAGE RESERVES THE RIGHT TO CHANGE QUANTITIES AND OMIT SPECIES AS DESIRED OR NEEDED.

Tree Planting Proposals for 2020

Company	City	Average Cost per Tree Installed	Notes	Proposal
Barnes, Inc.	Madison, WI	\$ 498.36	Highest bid, no references or proof of insurance provided	\$ 99,173
McKay Nursery Co.	Waterloo, WI	\$ 266.07	Lowest bid, one reference and no proof of insurance, did not meet tree specifications	\$ 52,948
Srb's Trees, Inc.	Sun Prairie, WI	\$ 269.89	Provided four references and proof of insurance. No changes to specifications and prior work for the Village.	\$ 53,708

Apparent low bidder is McKay Nursery

Lowest bid meeting specifications is Srb's



VILLAGE BOARD SUMMARY SHEET

MEETING DATE: Thursday, August 13, 2020

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Jim Hessling, Public Works Director, Craig Sherven, Police Chief

AGENDA ITEM: Discussion and recommendation to the Village board regarding speed study on Bremer Road.

PREVIOUS ACTION:

None

ISSUE SUMMARY:

Included in your packet is a traffic safety request form from a resident asking to lower the speed limit on Bremer Road. As a result of the request, the police department set up a speed/traffic monitoring device to collect data on vehicle activity in the area. Data was collected for a period of seven days. Once the data was collected it was forwarded on to SRF for evaluation and a professional opinion. SRF has completed its review and their memorandum is included in the packet. Action as part of the committees review would decide next steps to take, if any at all.

FINANCIAL/BUDGET IMPACT:

VILLAGE PLAN REFERENCE:

ORDINANCE REFERENCE:

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

ATTACHMENTS:

1. Traffic_Safety_Concern_Report_Form bremer road (Speed).pdf
2. Bremer Road 2020 - Speed Data Analysis
3. 200803_McFarland WO4_memo
4. Lake Edge Rd 15 MPH Zone (3) (002)

The McFarland Village Government is committed to providing safe and efficient travel on its roadways. While we continuously review current traffic patterns and traffic violation trends to determine needed enforcement, signage or other enhancements, we also rely upon the eyes and ears of our residents and value their input.

This form is intended as a means to provide the Police Department with information related to need for additional signage, enforcement or other issues occurring in your neighborhood or elsewhere in the Village.

Simply fill out the form (will expand as you type), save and submit it to Chief Sherven at craig.sherven@mcfarland.wi.us, who will review it and determine the best course of action. Note that the Police Department does not have sole decision making authority in many cases, and your request may require approval from the Public Safety Committee and/or Village Board. With regard to requests for signage (especially stop signs) or street construction, there are many more issues at hand that may be obvious and may take longer than you may think to process.

Village of McFarland TRAFFIC SAFETY CONCERN - REVIEW REQUEST FORM		
REQUESTER CONTACT INFORMATION		
Name:	Phone:	
Current address:		
City:	Email:	Best Contact Time:
INFORMATION ABOUT REQUEST		
Location of Problem:		
Briefly Describe Problem:		
Action You Are Requesting:		
OFFICE USE ONLY – DO NOT WRITE BELOW THIS LINE		
RECEIPT BY POLICE DEPARTMENT		
Received By:	Date:	
Actions Taken:		
Police Department Recommendation:		
Recommendation Forwarded To:	Date:	
COMMITTEE / BOARD ACTION		<input type="checkbox"/> NOT APPLICABLE
Discussed By:	Date:	Action Taken:
Discussed By:	Date:	Action Taken:
Discussed By:	Date:	Action Taken:
Discussed By:	Date:	Action Taken:
FINAL RESOLUTION		
Final Action Taken:		
Completed By:	Date:	
REQUESTER NOTIFICATION		
Notified By:	Date:	Via:

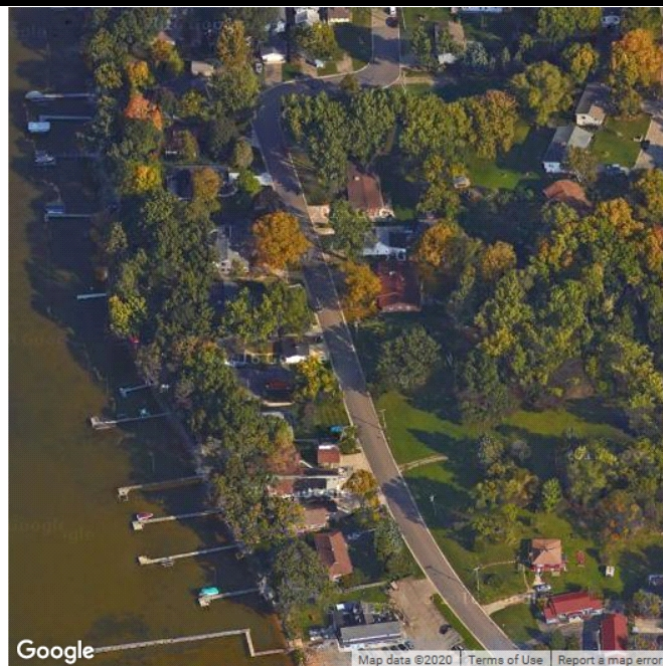
Additional Notes:

SPEED DATA ANALYSIS

Location



Bremer Road 2020
Latitude: 38.861231
Longitude: -95.741185



Analysis Time Period



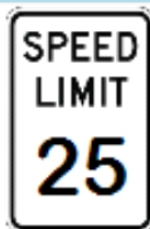
Start	End
6/17/2020 12:01 AM	6/24/2020 12:01 AM

Vehicles Analyzed



3,956

Speed Limit



25

85th Percentile Speed



28

Average Speed



24

99th Percentile Speed



34

Slowest Speed



7

{0} {1} Pace Speed



20-29

Fastest Speed



66



To: Matt Schuenke, Administrator
Village of McFarland

From: Lee Gibbs, PE, PTOE

Date: August 3, 2020

Subject: SPEED STUDY
BREMER ROAD (LAKE EDGE ROAD – ERLING AVENUE)
MCFARLAND, WISCONSIN

The following memorandum summarizes the results of a speed study for Bremer Road from Lake Edge Road to Erling Avenue in McFarland, Wisconsin. This study was based on public comments requesting a reduction in the roadway’s speed limit from 25 miles per hour to 15 miles per hour. Comments state this speed limit reduction request is due to pedestrians using the roadway for walking and the potential interaction with motorists driving on Bremer Road.

Site Review

A review of Bremer Road was performed to understand roadway characteristics, intersection geometrics, and motorist behaviors.

Bremer Road is a north-south, two-lane local street that serves as a collector roadway for a residential neighborhood. The roadway has a posted speed limit of 25 mph for southbound traffic, but no speed limit signs are installed for northbound traffic. Bremer Road has two different cross-sections: the southern portion has a 32-foot roadway cross-section with curb and gutter while the northern section has a 28-foot roadway cross-section with no curb and gutter. A horizontal S-curve in Bremer Road separates these roadway types. On-street parking is prohibited on the east side of Bremer Road while on-street parking is provided on the west side of the roadway.

Traffic Data Collection

Traffic volume and speed data was collected on Bremer Road to understand existing roadway characteristics. Traffic data was collected by the Village of McFarland from June 17, 2020 through June 23, 2020, seven days total.

The results of the traffic data found that approximately 3,960 vehicles were recorded over the seven days (an average of approximately 565 vehicles per day). The following lists speed data characteristics from the data set (Bremer Road speed limit is posted at 25 mph):

- The average speed recorded was 24 mph
- The 85th percentile speed was 28 mph
- The 99th percentile speed was 34 mph
- The 10-mph pace was 20-29 mph

The Village of McFarland also collected traffic data on Lake Edge Road, south of Bremer Road, from July 19, 2020 to July 29, 2020. The results of the traffic data found that approximately 930 vehicles were recorded over the ten days (an average of approximately 95 vehicles per day). The following lists speed data characteristics from the data set (Lake Edge Road speed limit is posted at 15 mph):

- The average speed recorded was 23 mph
- The 85th percentile speed was 28 mph
- The 99th percentile speed was 34 mph
- The 10-mph pace was 20-29 mph

Findings and Recommendations

A speed study of Bremer Road was performed to understand existing travel speeds on the roadway and evaluate whether a speed limit reduction from 25 mph to 15 mph is warranted.

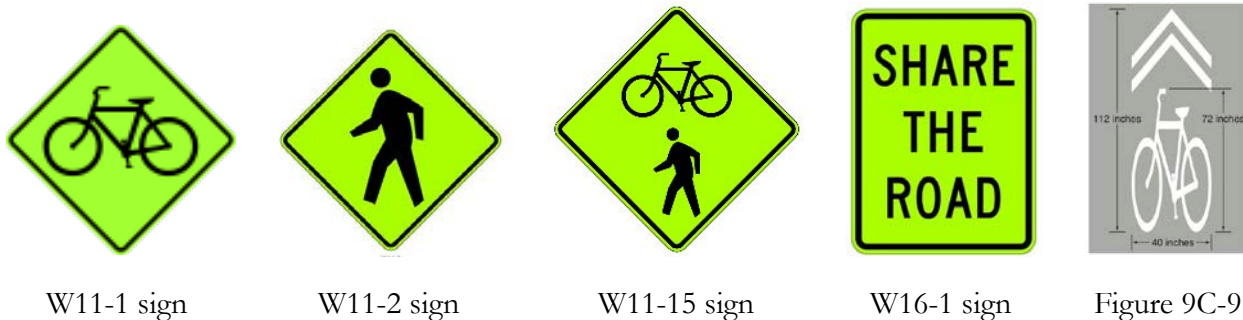
Traffic data was collected on Bremer Road for seven days in June 2020. Traffic volumes and speed data was collected and processed to understand driver characteristics along Bremer Road. The results of the traffic data collection found that the average and 85th percentile speeds (24 and 28 mph, respectively) fall within reasonable ranges of the posted 25 mph speed limit. This would indicate that motorists are comfortable driving Bremer Road at, or slightly above, the posted speed limit.

Traffic data was collected on Lake Edge Road to investigate whether motorists adhere to the posted 15 mph speed limit on the roadway. The results indicate that the average and 85th percentile speeds (23 and 28 mph, respectively) are near 10 mph over the posted speed limit. This indicates that motorists feel comfortable driving on Lake Edge Road faster than the posted speed limit.

The evaluation of Lake Edge Road determined that motorists do not adhere to the 15 mph posted speed limit and drive at speeds they are comfortable with, given their surroundings. Therefore, it would be reasonable to assume that lowering the speed limit on Bremer Road would have the same effect as what is seen on Lake Edge Road – little to no reduction in travel speeds. Reducing travel speeds in these areas are typically accomplished in two manners: changing the driving environment for motorists that make them slow down (e.g. narrow travel lanes, on-street parking, changing horizontal alignment, adding islands or bump-outs, speed humps, etc.) or by increased speed enforcement. Some elements are currently in-place along Bremer Road, which is reflected in the speed data indicating that the majority of motorists are comfortable driving at or below 28 mph.

Bremer Road also serves bicyclists and pedestrians that use the roadway for travel. No sidewalks or off-street travel paths are provided so these users travel on the traveled way of Bremer Road. The roadway has 28-32 feet of roadway width and provides on-street parking on one side. From WisDOT FDM 11-20 Attachment 1.1, local streets like Bremer Road should provide a minimum of 9 feet for each travel lane (18 feet total for two-way traffic). Furthermore, WisDOT FDM 11-20-1.6 suggests a minimum roadway width of 7 feet to accommodate on-street parking. This equates to a minimum roadway width of 25 feet to accommodate travel lanes and on-street parking. Given these elements, it is unlikely that a bicycle/pedestrian lane, both one-way pair or two-way shared, can be accommodated along the roadway's entirety. Given the low traffic volumes on Bremer Road, bicycles can use much of the roadway for travel with no special bike accommodations. It is recommended that Bremer Road implement elements for shared lanes, including pavement markings (MUTCD Figure 9C-9) and signs (MUTCD W11-1/W11-15 and W16-1). These signs are shown below.

Pedestrian accommodations along Bremer Road are more difficult as the interaction of pedestrians and vehicles on the traveled way is generally discouraged. Unless a sidewalk or off-street path is installed, it is likely that the current condition will continue. Section 2C.50 of the MUTCD states that pedestrian signs (W11-2) may be used "where shared use of the roadway by pedestrians, animals, or equestrians might occur". Therefore, in the absence of providing off-street pedestrian accommodations, it is recommended that pedestrian warning signs (MUTCD W11-2/W11-15) be installed along Bremer Road to alert motorists of the presence of pedestrians along the roadway. These signs are shown below.



W11-1 sign

W11-2 sign

W11-15 sign

W16-1 sign

Figure 9C-9

5700 Block Lake Edge Road
 15 MPH Speed Zone
 July 19, 2020 to July 29, 2020
SPEED DATA ANALYSIS

Location



Latitude: 38.861231
 Longitude: -95.741185



Analysis Time Period



Start	End
7/19/2020	7/29/2020
1:05 PM	1:00 PM

Vehicles Analyzed



928

Speed Limit



15

85th Percentile Speed



28

Average Speed



23

99th Percentile Speed



35

Slowest Speed



6

{0} {1} Pace Speed



20-29

Fastest Speed



40



VILLAGE BOARD SUMMARY SHEET

MEETING DATE: Thursday, August 13, 2020

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Matt Schuenke, Village Administrator, Jim Hessling, Public Works Director

AGENDA ITEM: Discussion on 60% plan design of Hwy MN Phase 4 road project

PREVIOUS ACTION:

This item has been discussed at previous Public Works committee and Village Board meetings.

ISSUE SUMMARY:

As part of the Hwy MN Phase 4 road project, a 60% plan review is needed in order to gather committee input on the design and future operation of the roadway. This is the last phase of the Hwy MN project. The previous phases, 1 thru 3, ran from US Hwy 51 to Holscher Road. Phase 4 will run from Holscher Road to CTH AB. This reconstruction project will transform the road from a rural section to an urban one.

Once review is complete at the committee level, we will host a Public Input meeting. After the Public Input meeting those ideas and concerns that were expressed are then incorporated into updated plans, where possible. The new plans will then come back to this committee for further review along with a recommendation to the Village Board for approval.

FINANCIAL/BUDGET IMPACT:

The total cost for the project is estimated at \$2,142,500. This is included within the 2021 Program year for the current 5 year Capital Improvement Plan. The current breakdown on this is as follows:

- \$837,750 - Dane County
- \$430,000 - Capital Projects Fund (Street, Sidewalk)
- \$571,000 - Water Utility (Main)
- \$303,750 - Stormwater Utility

Approximately \$100,000 of this is already funded through the Prairie Place Subdivision development for the road construction. Future development through assessments could fund road construction costs. It will depend to what extent we desire to construct the project whether in whole or in part.



This is a shared project with Dane County and once complete, there is a jurisdictional transfer from the County to the Village.

VILLAGE PLAN REFERENCE:

2020 - 2024 Capital Improvement Plan

ORDINANCE REFERENCE:

None.

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

Presented for discussion.

ATTACHMENTS:

1. Hwy MN P4 60% plans

2021 STREET AND UTILITY IMPROVEMENTS

COUNTY HIGHWAY MN

Village of McFarland, Wisconsin

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
1	EROSION CONTROL PLAN AND GENERAL NOTES
2	EROSION CONTROL - STANDARD CONSTRUCTION DETAILS
SANITARY SEWER, WATER MAIN, AND STORM SEWER	
A1	PLAN & PROFILE - CTH MN STATION 11+20 TO STATION 17+20
A2	PLAN & PROFILE - CTH MN STATION 16+80 TO STATION 22+80
A3	PLAN & PROFILE - CTH MN STATION 22+40 TO STATION 28+40
A4	PLAN & PROFILE - CTH MN STATION 28+00 TO STATION 34+00
A5	PLAN & PROFILE - CTH MN STATION 33+60 TO STATION 39+60
A6	PLAN & PROFILE - CTH MN STATION 39+20 TO STATION 45+20
A7	PLAN & PROFILE - CTH AB STATION 80+40 TO STATION 86+40
A8	SANITARY SEWER - STANDARD CONSTRUCTION DETAILS
A9	WATER MAIN - STANDARD CONSTRUCTION DETAILS
A10	STORM SEWER - STANDARD CONSTRUCTION DETAILS
A11	STREET IMPROVEMENTS - STANDARD CONSTRUCTION DETAILS
B1	PLAN & PROFILE - CTH MN STATION 11+20 TO STATION 17+20
B2	PLAN & PROFILE - CTH MN STATION 16+80 TO STATION 22+80
B3	PLAN & PROFILE - CTH MN STATION 22+40 TO STATION 28+40
B4	PLAN & PROFILE - CTH MN STATION 28+00 TO STATION 34+00
B5	PLAN & PROFILE - CTH MN STATION 33+60 TO STATION 39+60
B6	PLAN & PROFILE - CTH MN STATION 39+20 TO STATION 45+20
B7	PLAN & PROFILE - CTH AB STATION 80+40 TO STATION 86+40
X1	CROSS SECTIONS - CTH MN STATION XX+XX TO STATION XX+XX
X2	CROSS SECTIONS - CTH MN STATION XX+XX TO STATION XX+XX
X3	CROSS SECTIONS - CTH MN STATION XX+XX TO STATION XX+XX
X4	CROSS SECTIONS - CTH MN STATION XX+XX TO STATION XX+XX
X5	CROSS SECTIONS - CTH MN STATION XX+XX TO STATION XX+XX
X6	CROSS SECTIONS - CTH MN STATION XX+XX TO STATION XX+XX
X7	CROSS SECTIONS - CTH MN STATION XX+XX TO STATION XX+XX



NO SCALE

MEMBER

 TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
 WIS. STATUTE 182.0175 (1974)
 REQUIRES MIN. OF 3 WORK DAYS
 NOTICE BEFORE YOU EXCAVATE.

LEGEND

UNDERGROUND TELE. ———— UT ———— UT ———— UT ————
 UNDERGROUND CATV. ———— UCATV ————
 UNDERGROUND ELEC. ———— UE ———— UE ———— UE ———— UE ————
 OVERHEAD ———— OH ———— OH ———— OH ———— OH ————
 EXISTING GAS ———— G ———— G ———— G ———— G ————
 PROPERTY LINE ———— P ———— P ———— P ———— P ————
 EXISTING WATER MAIN ———— WM ———— WM ———— WM ———— WM ————
 EXISTING SANITARY SEWER ———— SAN ———— SAN ———— SAN ———— SAN ————
 EXISTING STORM SEWER ———— STM ———— STM ———— STM ———— STM ————
 EXISTING FENCE LINE ———— X ———— X ———— X ———— X ————
 SAWCUT ———— X ———— X ———— X ———— X ————
 NEW STORM SEWER ———— S ———— S ———— S ———— S ————
 NEW WATER MAIN ———— W ———— W ———— W ———— W ————
 NEW SANITARY SEWER ———— SA ———— SA ———— SA ———— SA ————

NEW ITEMS:

WATER VALVE	CURB STOP	HYDRANT	MANHOLE	CURB INLET	ENDWALL	GAS WARNING

EXISTING ITEMS:

FLAG POLE	MAILBOX	POWER POLE	LIGHT POLE	LAMP POST	PULL BOX
WATER VALVE	CURB STOP	HYDRANT	WELL	MONITORING WELL	TRACER WIRE
SANITARY MANHOLE	SANITARY VALVE	CLEANOUT	STORM MANHOLE	CURB INLET	CIRCULAR INLET
SQUARE INLET	ENDWALL	STUMP	DECID. TREE (RELATIVE SIZE SHOWN)	EVERGREEN	SHRUB OR HEDGE
CATV. PED.	TELE. PED.	ELEC. PED.	GAS VALVE	STREET SIGN	IRON PIPE
IRON PIPE	IRON PIPE	IRON PIPE	IRON PIPE	IRON PIPE	IRON PIPE

NOTES: 1.) EXISTING FEATURES AND LABELS ARE SHOWN WITH SCREENED, LIGHTER LINES.
 2.) NEW CONCRETE IS SHOWN SHADED IN PLAN VIEWS
 3.) CONCRETE REMOVALS ARE SHOWN BY CROSS-HATCHING

2021 STREET AND UTILITY IMPROVEMENTS
 CTH MN
 Village of McFarland, Wisconsin

PROJECT NO.: MC 174
 DRAWING FILE: MC 174 DETAILS.DWG
 DATE: 7-15-20

DRAWN BY: J.R.K.
 CHECKED BY: N.R.B.
 REV. DATE:

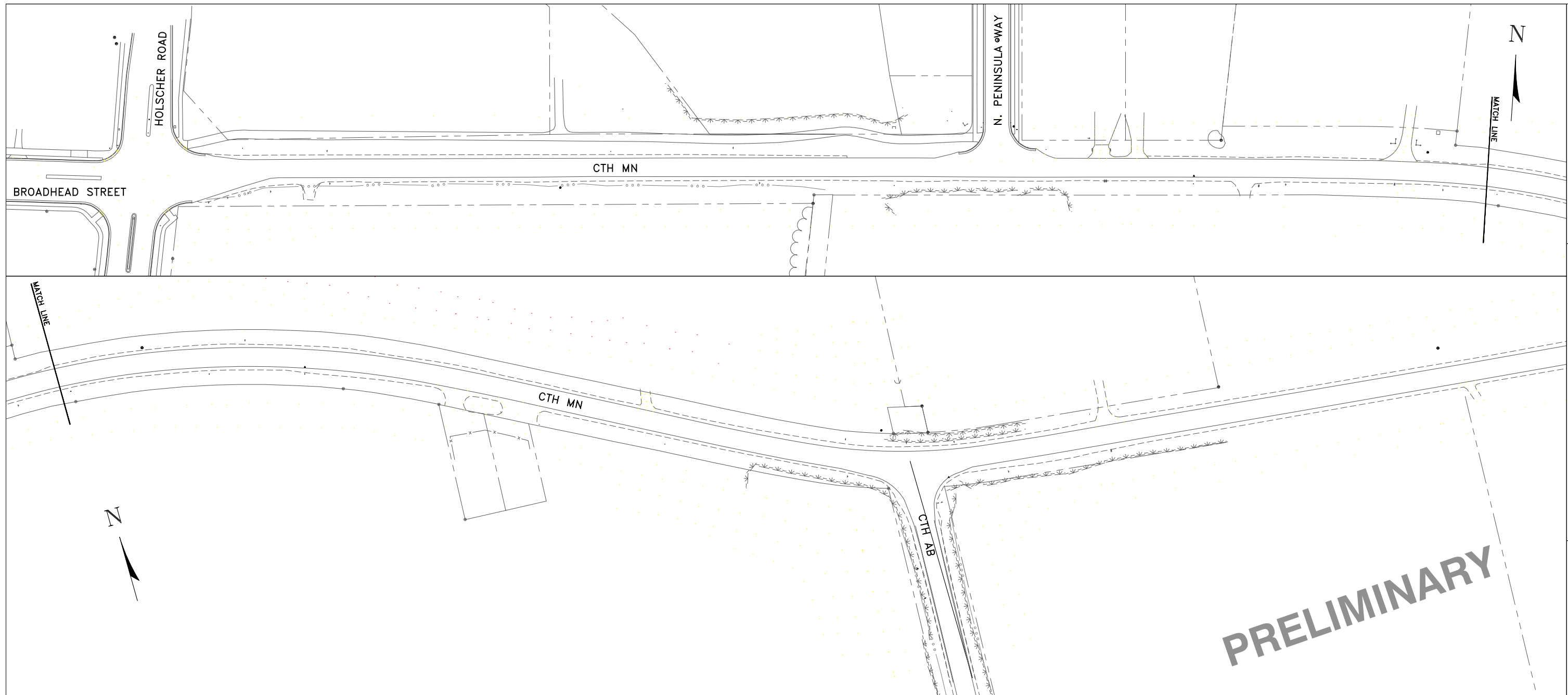
SHEET

REVISIONS



BY DATE

TOWN & COUNTRY ENGINEERING, INC.
 Madison, WI 53719
 (608) 273-3350
 www.tceengineers.net

2912 Marketplace Drive
 Suite 103

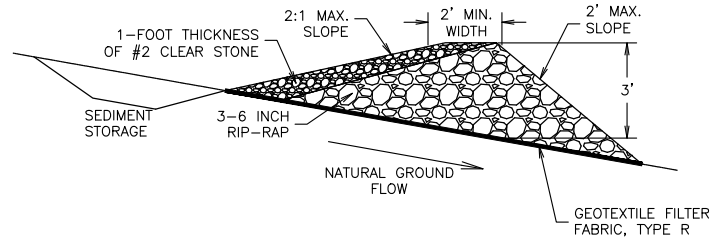


EROSION CONTROL NOTES:

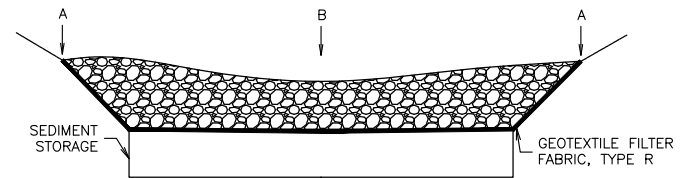
- LOCATIONS MARKED WITH "■" TO RECEIVE INLET FILTER PROTECTION DURING CONSTRUCTION. ALL NEW STREET INLETS MUST ALSO RECEIVE INLET FILTER PROTECTION.
- CONSTRUCT A STONE CHECK DAM IN GUTTER LINE AT ALL LOCATIONS MARKED WITH "▲"
- SURFACE FLOW DIRECTION IS INDICATED WITH 
- SILT FENCE INSTALLATION IS INDICATED WITH 
- POST WDNR CERTIFICATE OF PERMIT COVERAGE ON SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED, THE SITE IS STABILIZED, AND A NOTICE OF TERMINATION IS FILED WITH WDNR.
- KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
- SUBMIT PLAN REVISIONS OR AMENDMENTS TO THE WDNR AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION.
- THE CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
- INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- WHEN POSSIBLE: PRESERVE EXISTING VEGETATION (ESPECIALLY ADJACENT TO SURFACE WATERS), MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
- REFER TO THE WDNR STORMWATER CONSTRUCTION TECHNICAL STANDARDS AT http://dnr.wi.gov/topic/stormwater/standards/const_standards.html.
- INSTALL PERIMETER EROSION CONTROLS AND ROCK TRACKING PAD CONSTRUCTION ENTRANCE(S) PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE WDNR TECHNICAL STANDARD STONE TRACKING PAD AND TIRE WASHING #1057 FOR ROCK CONSTRUCTION ENTRANCE(S).

- INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA AND/OR IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES #1060.
- STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE EXPOSED AREA. CONDUCT TEMPORARY GRADING FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD TEMPORARY GRADING PRACTICES FOR EROSION CONTROL #1067.
- NOTIFY THE OWNER IF DEWATERING IS SCHEDULED TO OCCUR IN AREAS OF SOIL AND/OR GROUNDWATER CONTAMINATION, OR IF DEWATERING WILL OCCUR FROM A HIGH CAPACITY WELL (70 GPM OR MORE). DEWATER ONLY AFTER THE APPROPRIATE WDNR DEWATERING DISCHARGE PERMIT HAS BEEN OBTAINED.
- PROVIDE ANTI-SCOUR PROTECTION AND MAINTAIN NON-EROSIVE FLOW DURING DEWATERING. LIMIT PUMPING RATES TO EITHER (A) THE SEDIMENT BASIN/TRAP DESIGN DISCHARGE RATE, OR (B) THE BASIN DESIGN RELEASE RATE WITH THE CORRECTLY-FITTED HOSE AND GEOTEXTILE FILTER BAG. PERFORM DEWATERING OF ACCUMULATED SURFACE RUNOFF IN ACCORDANCE WITH WDNR TECHNICAL STANDARD DE-WATERING #1061.
- INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD SILT FENCE #1056. REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OF THE FENCE AND/OR BARRIER HEIGHT.
- REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY. REPLACE DECOMPOSING STRAW BALES (TYPICAL BALE LIFE IS 3 MONTHS). LOCATE, INSTALL, AND MAINTAIN STRAW BALES PER WDNR TECHNICAL STANDARD DITCH CHECKS #1062.
- INSTALL AND MAINTAIN FILTER SOCKS IN ACCORDANCE WITH WDNR TECHNICAL STANDARD INTERIM MANUFACTURED PERIMETER CONTROL AND SLOPE INTERRUPTION PRODUCTS #1071.
- IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
- IMMEDIATELY STABILIZE ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR LONGER. BETWEEN SEPTEMBER 15 AND OCTOBER 15: STABILIZE WITH MULCH, TACKIFIER, AND A PERENNIAL SEED MIXED WITH WINTER WHEAT, ANNUAL OATS, OR ANNUAL RYE, AS APPROPRIATE FOR REGION AND SOIL TYPE. OCTOBER 15 THROUGH COLD WEATHER: STABILIZE WITH A POLYMER AND DORMANT SEED MIX, AS APPROPRIATE FOR REGION AND SOIL TYPE.

- STABILIZE AREAS OF FINAL GRADING WITHIN 7 DAYS OF REACHING FINAL GRADE.
- SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED BY THE OWNER. SEPARATE SWEEPED MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD DUST CONTROL ON CONSTRUCTION SITES #1068.
- COORDINATE WITH THE OWNER TO UPDATE THE LAND DISTURBANCE PERMIT TO INDICATE THE ANTICIPATED OR LIKELY DISPOSAL LOCATIONS FOR ANY EXCAVATED SOILS OR CONSTRUCTION DEBRIS THAT WILL BE HAULED OFF-SITE FOR DISPOSAL. THE DEPOSITED OR STOCKPILED MATERIAL NEEDS TO INCLUDE PERIMETER SEDIMENT CONTROL MEASURES (SUCH AS SILT FENCE, HAY BALES, FILTER SOCKS, OR COMPACTED EARTHEN BERMS).
- FOR NON-CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED SLOPES, PROVIDE CLASS I, II OR III TYPE A EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOT'S WIDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD NON-CHANNEL EROSION MAT #1052.
- FOR CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED AREAS, PROVIDE CLASS I, II, OR III TYPE B EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOT'S WIDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD CHANNEL EROSION MAT #1053.
- INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES (SUCH AS TEMPORARY SEDIMENT BASINS, DITCH CHECKS, EROSION CONTROL MATTING, SILT FENCING, FILTER SOCKS, WATTLES, SWALES, ETC.), OR AS DIRECTED BY THE OWNER.

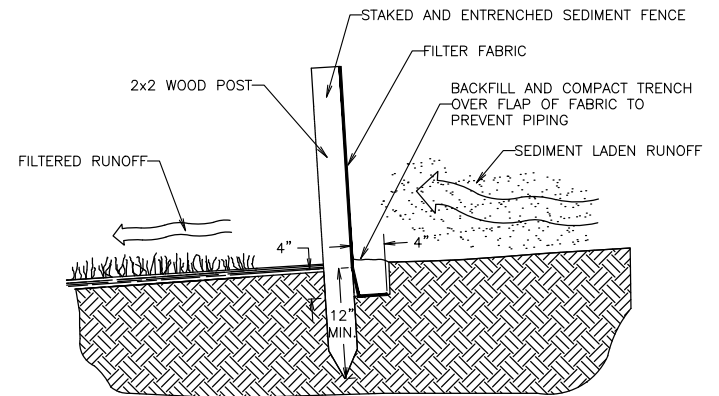


SECTION VIEW

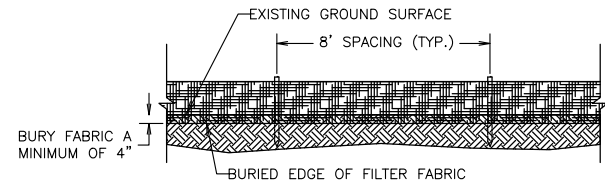


FRONT VIEW

DETAIL
STONE CHECK DAM

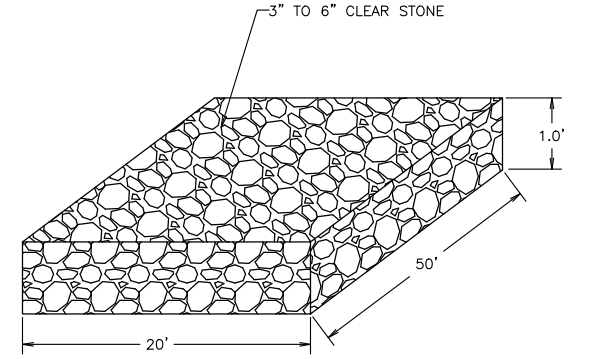


CROSS-SECTION OF A PROPERLY INSTALLED SEDIMENT FENCE



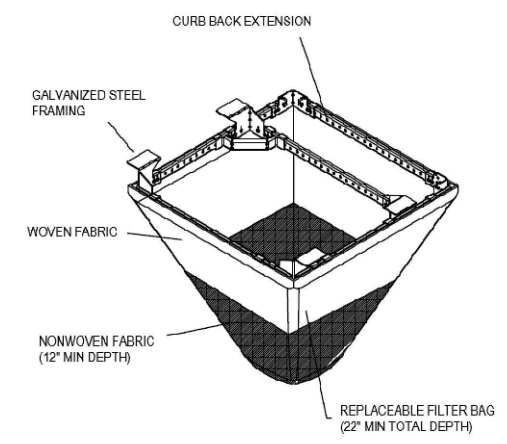
SEDIMENT FENCE DETAIL

DETAIL
SEDIMENT FENCE

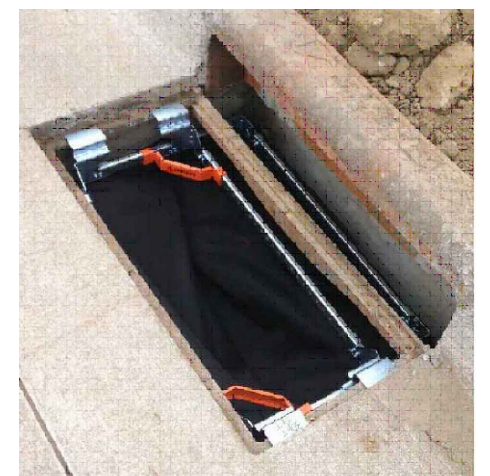


NOTE:
- ON STREET SURFACES
CRUSHED AGGREGATE BASE STONE
SERVES AS TRACKING PAD.

DETAIL
CLEAR STONE TRACKING PAD



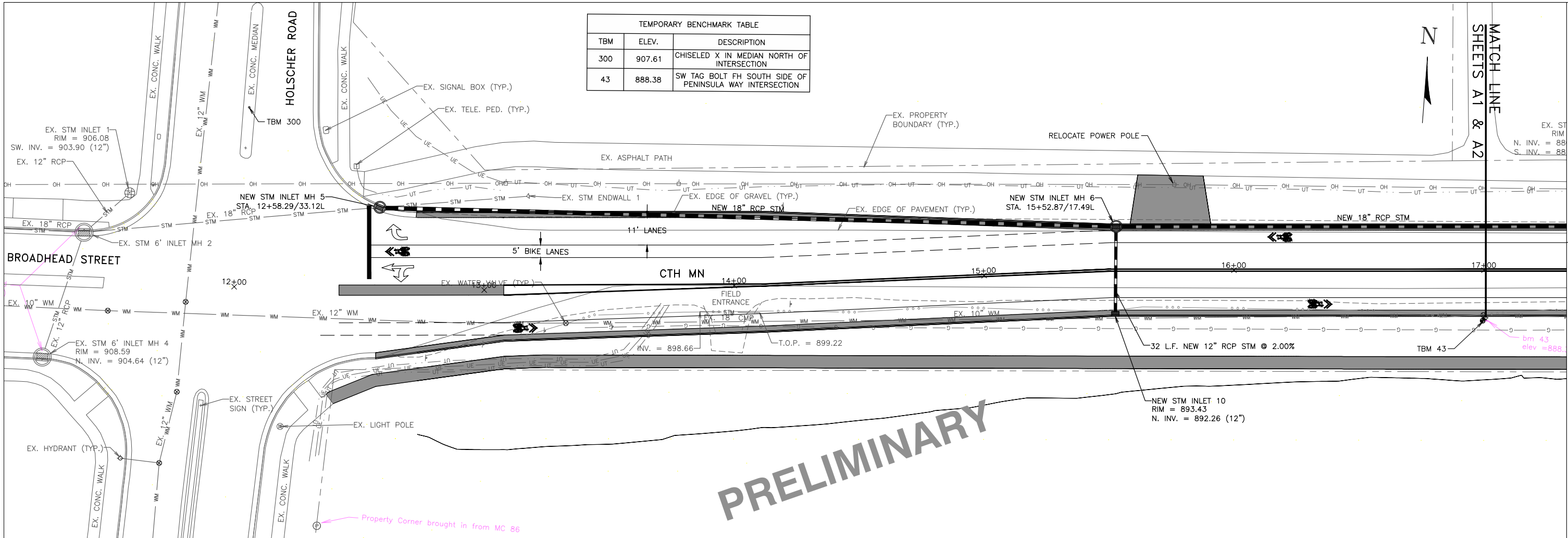
GENERAL NOTES:
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.
FRAMED INLET PROTECTION SHALL BE COMPLIANT WITH ALL ASTM STANDARD D8057-17 REQUIREMENTS, INCLUDING:
A. BYPASS OVERFLOW THAT MEETS OR EXCEEDS INLET DESIGN FLOW
B. FRAME AND BAG STRONG ENOUGH TO HANDLE FULL SEDIMENT LOAD.



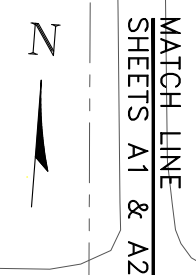
INSTALLATION NOTES:
NO PART OF INLET PROTECTION SHALL BE PROJECTING ABOVE THE GRATE.
FOR COMBINATION INLETS, PROTECTION SHALL CAPTURE RUNOFF ENTERING BOTH GRATE AND CURB OPENING.
A DUAL FABRIC FILTER BAG, WITH NON-WOVEN BOTTOM AND WOVEN TOP SHALL BE USED.
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MINIMUM OF 4" FROM THE BOTTOM OF THE BAG.

DETAIL
INLET PROTECTION - FRAMED (W/ CURB BOX)

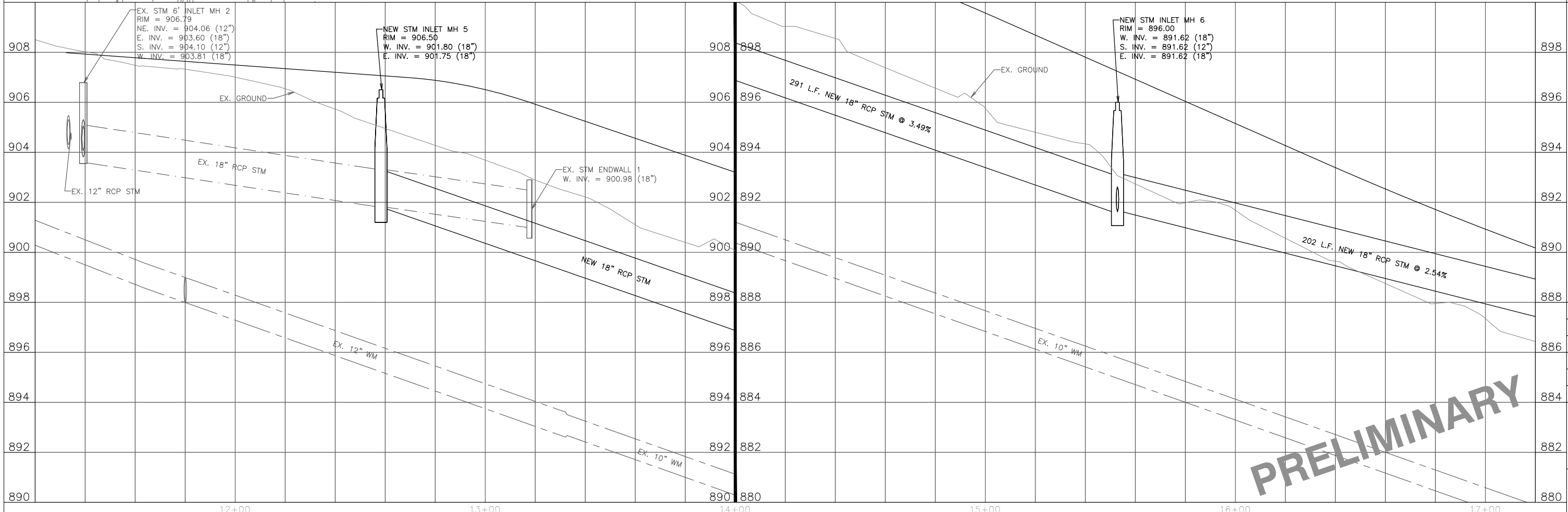
PRELIMINARY



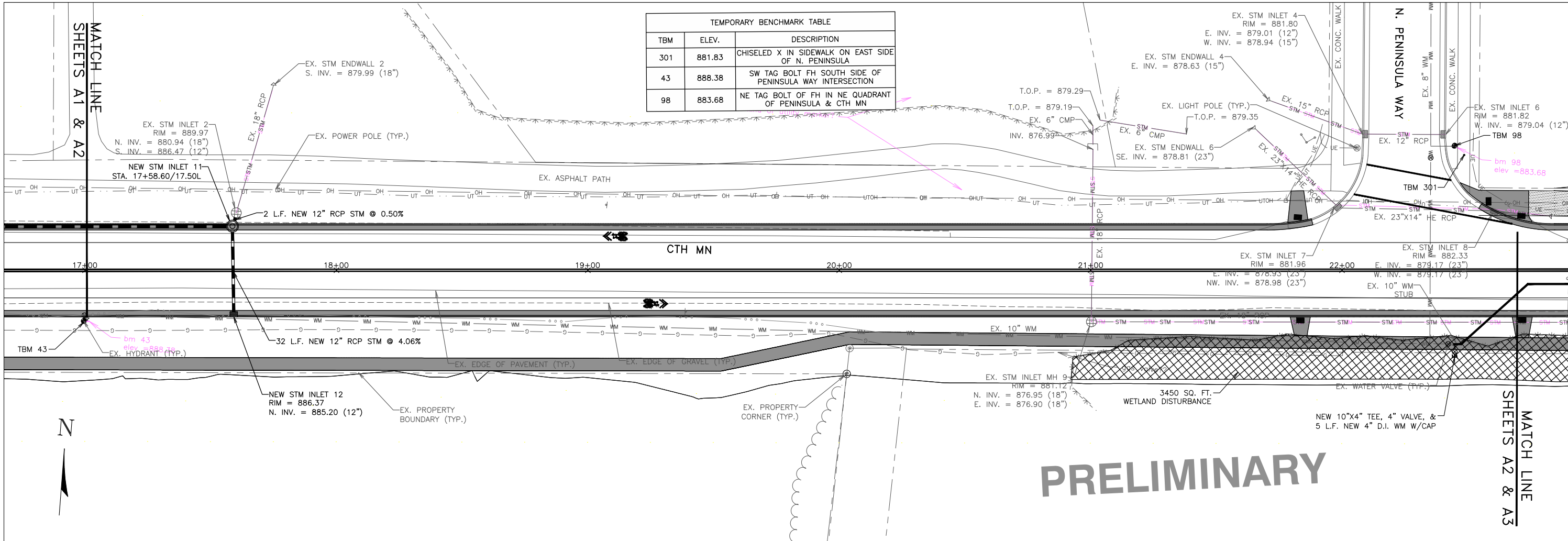
TEMPORARY BENCHMARK TABLE		
TBM	ELEV.	DESCRIPTION
300	907.61	CHISELED X IN MEDIAN NORTH OF INTERSECTION
43	888.38	SW TAG BOLT FH SOUTH SIDE OF PENINSULA WAY INTERSECTION



PRELIMINARY

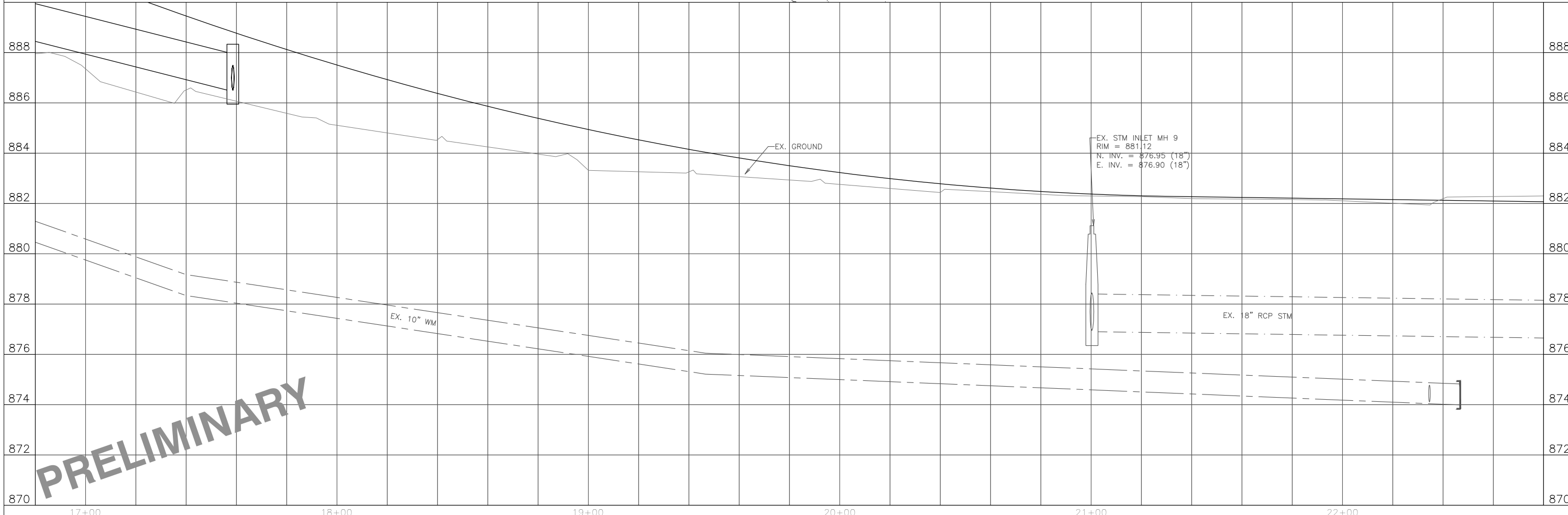


PRELIMINARY



TEMPORARY BENCHMARK TABLE		
TBM	ELEV.	DESCRIPTION
301	881.83	CHISELED X IN SIDEWALK ON EAST SIDE OF N. PENINSULA
43	888.38	SW TAG BOLT FH SOUTH SIDE OF PENINSULA WAY INTERSECTION
98	883.68	NE TAG BOLT OF FH IN NE QUADRANT OF PENINSULA & CTH MN

PRELIMINARY



PRELIMINARY

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PLAN & PROFILE
 CTH MN
 Station 16+80 To Station 22+80

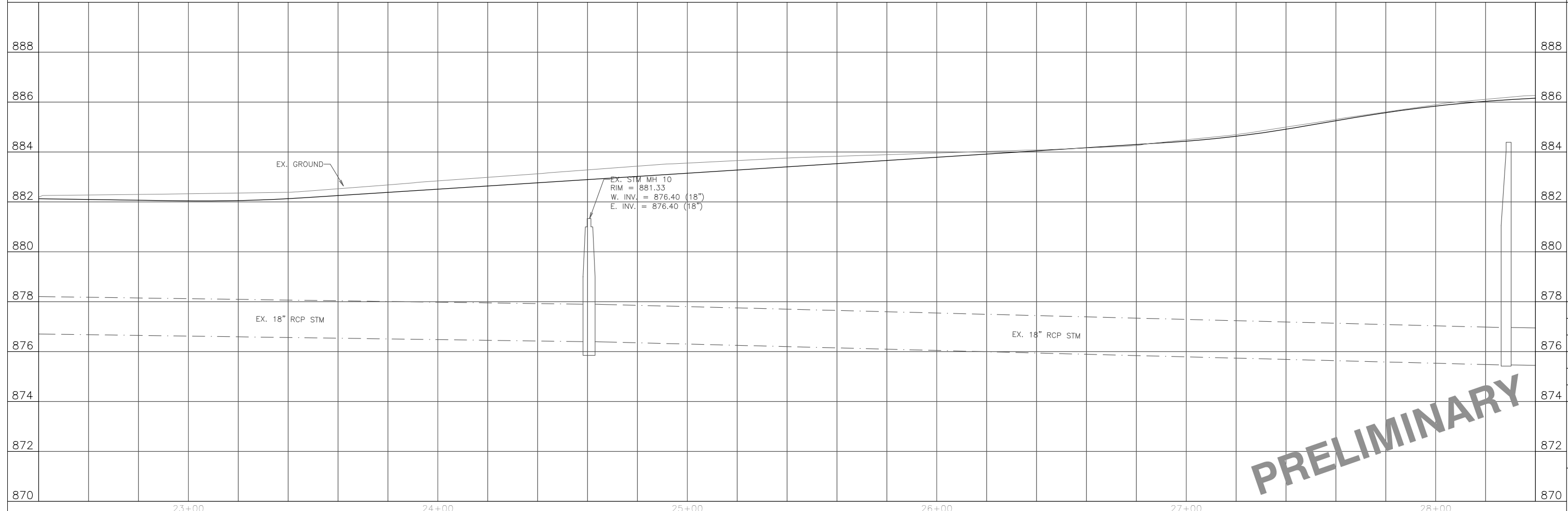
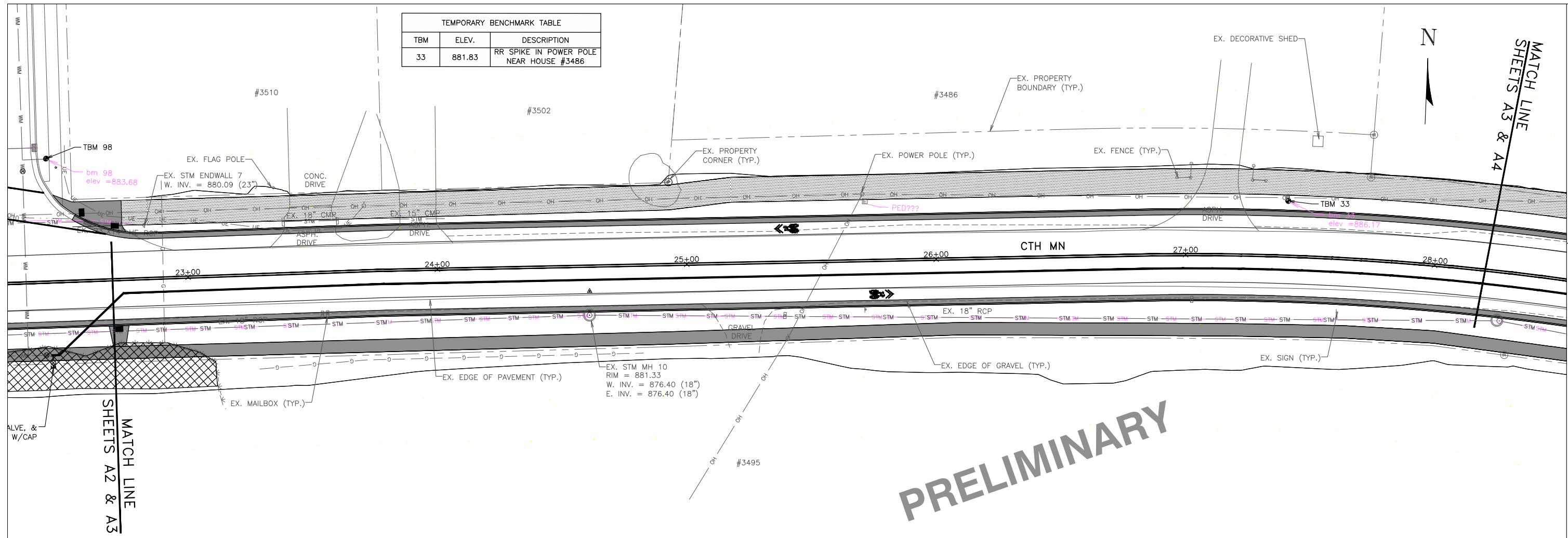
2021 STREET AND UTILITY IMPROVEMENTS
 CTH MN
 Village of McFarland, Wisconsin

PROJECT NO.:	MC 174
DRAWING TITLE:	SHEETS.DWG
DRAWN BY:	J.R.K.
CHECKED BY:	N.R.B.
DATE:	7-15-20
REVISIONS:	

SCALE: HORIZONTAL 1" = 20'
 VERTICAL 1" = 2'

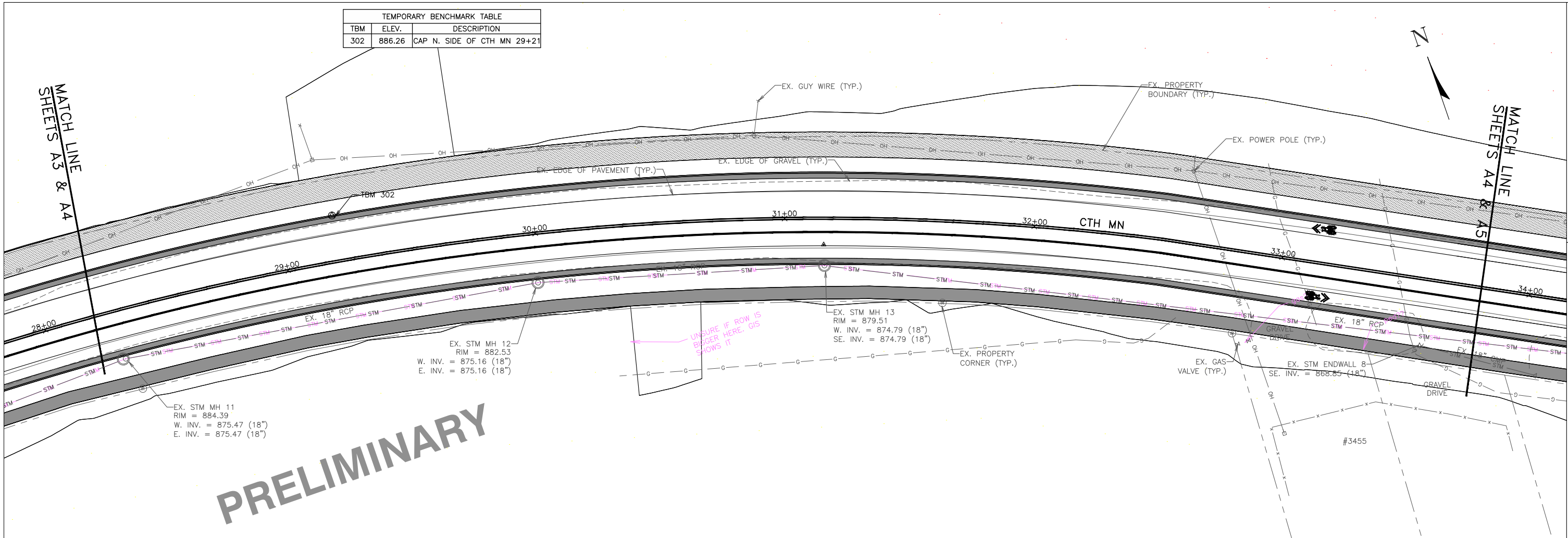
SHEET: **A2**

TEMPORARY BENCHMARK TABLE		
TBM	ELEV.	DESCRIPTION
33	881.83	RR SPIKE IN POWER POLE NEAR HOUSE #3486

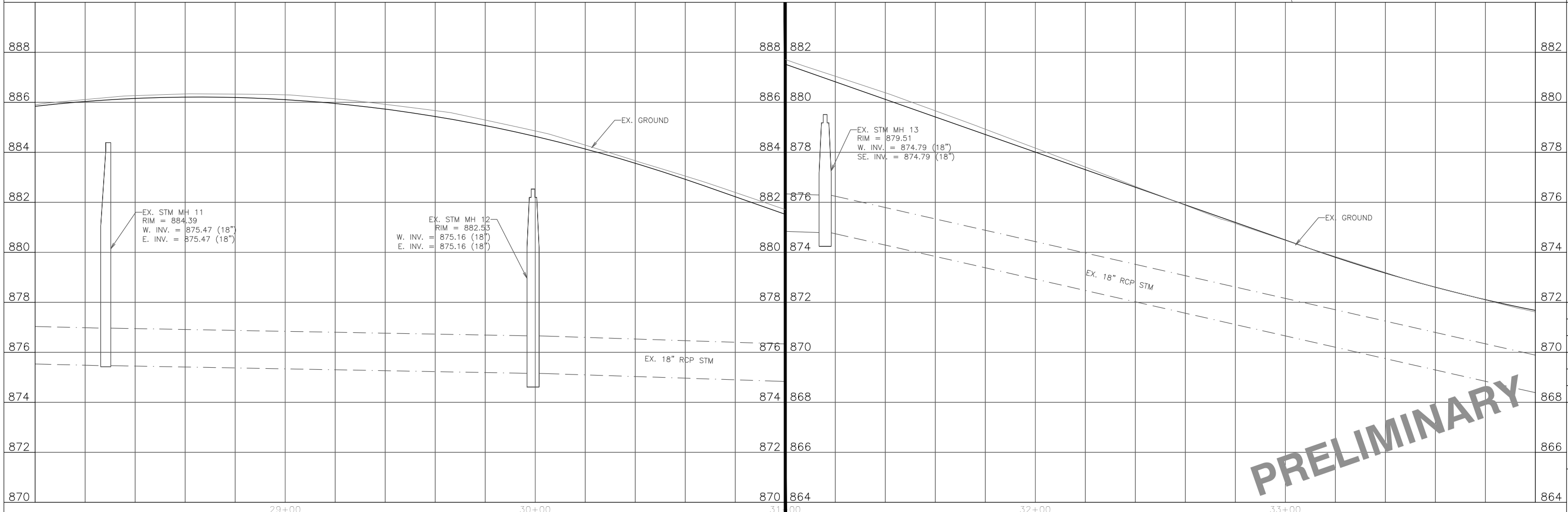


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 PLAN & PROFILE CTH MN
 Station 22+40 To Station 28+40
 2021 STREET AND UTILITY IMPROVEMENTS CTH MN
 Village of McFarland, Wisconsin
 PROJECT NO.: MC 174
 DRAWING FILE: SHEETS.DWG
 DRAWN BY: J.R.K.
 CHECKED BY: N.R.B.
 DATE: 7-15-20
 REVISIONS:
 SCALE: HORIZONTAL 1" = 40'
 VERTICAL 1" = 10'
 SHEET: A3

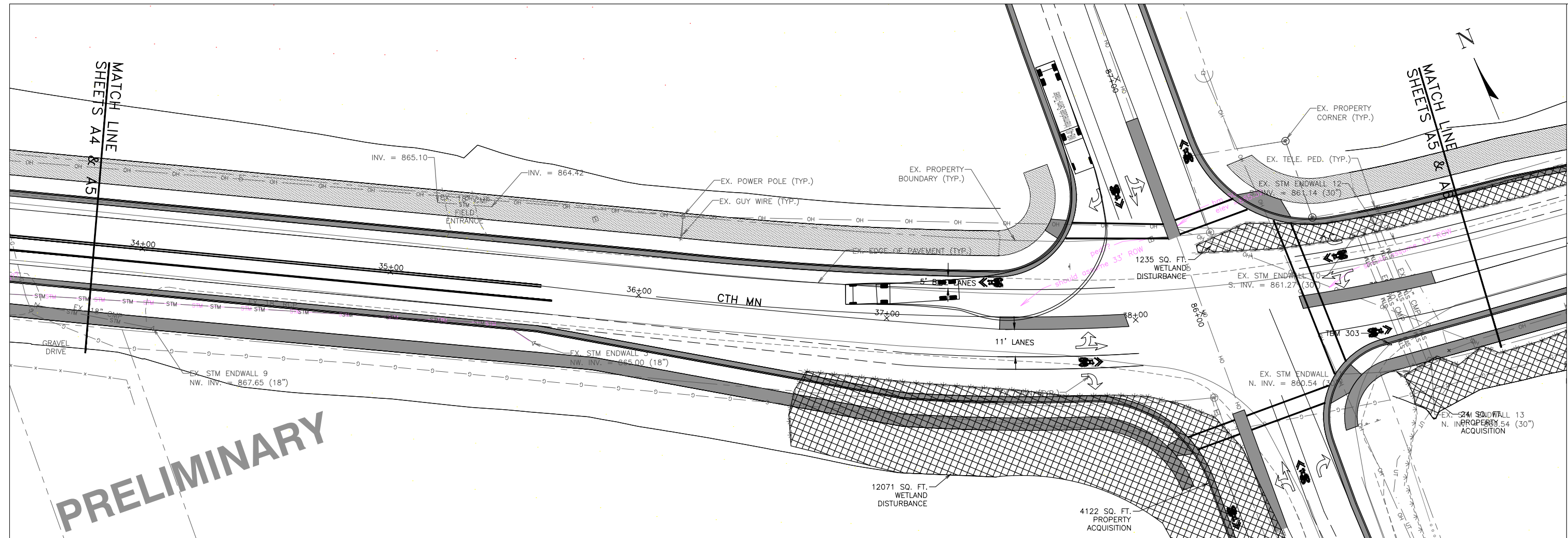
TEMPORARY BENCHMARK TABLE		
TBM	ELEV.	DESCRIPTION
302	886.26	CAP N. SIDE OF CTH MN 29+21



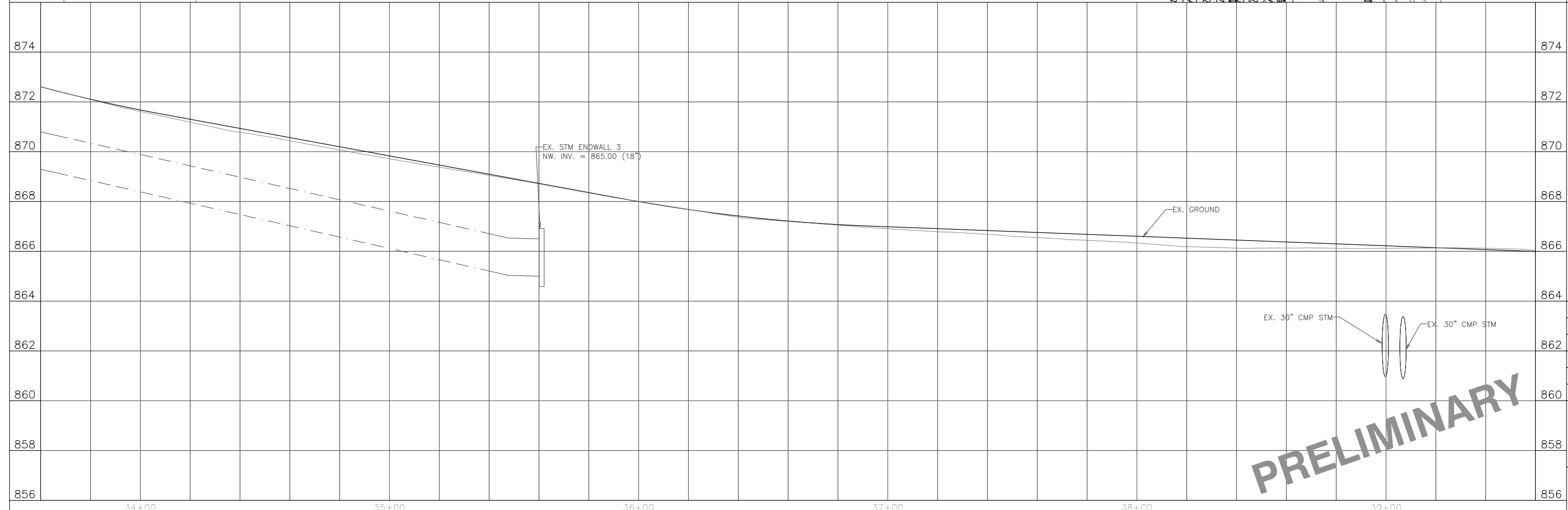
PRELIMINARY



PRELIMINARY



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tc TOWN & COUNTRY ENGINEERING, INC.

PLAN & PROFILE
CTH MN
Station 38+60 To Station 39+60

2021 STREET AND UTILITY IMPROVEMENTS
CTH MN
Village of McFarland, Wisconsin

PROJECT NO.: MC 174
DRAWING FILE: MC 174 SHEETS.DWG
DRAWN BY: J.R.K.
CHECKED BY: N.R.B.
DATE: 7-15-20
REVISIONS:

SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 5'
SHEET: A5

MATCH LINE
SHEETS A5 & A6

EX. STM ENDWALL 14
W. INV. = 862.09 (21")

EX. STM ENDWALL 15
W. INV. = 862.07 (21")

EX. 21" X 27" CMP
GRAVEL DRIVE

EX. PROPERTY
BOUNDARY (TYP.)

EX. PROPERTY
CORNER (TYP.)

EX. EDGE OF GRAVEL (TYP.)

EX. EDGE OF PAVEMENT (TYP.)

TBM 304

TEMPORARY BENCHMARK TABLE		
TBM	ELEV.	DESCRIPTION
304	865.18	CAP N. SIDE OF CTH MN



5905 SQ. FT.
WETLAND
DISTURBANCE

EX. POWER POLE (TYP.)

EX. MAILBOX (TYP.)

CTH MN

PRELIMINARY

PLAN & PROFILE
CTH MN

Station 39+20 To Station 45+20

2021 STREET AND UTILITY IMPROVEMENTS
CTH MN

Village of McFarland, Wisconsin

PROJECT NO.:
MC 174

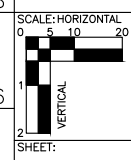
DRAWING TITLE:
SHEETS.DWG

DRAWN BY:
J.R.K.

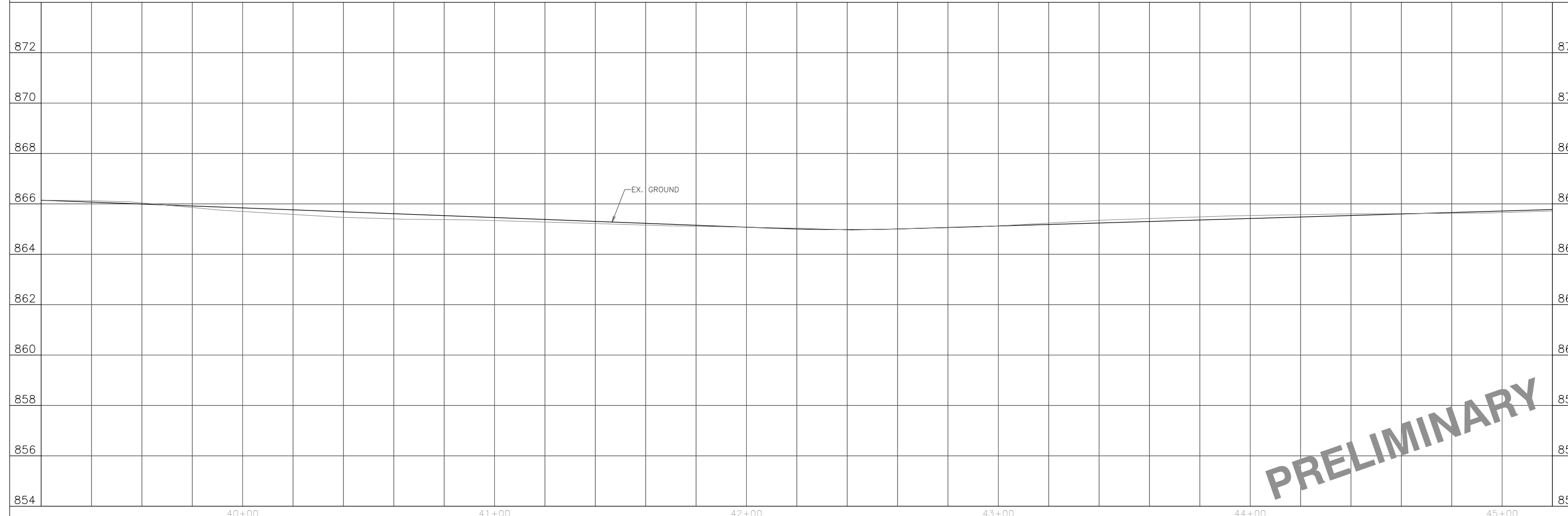
CHECKED BY:
N.R.B.

DATE:
7-15-20

REVISIONS:

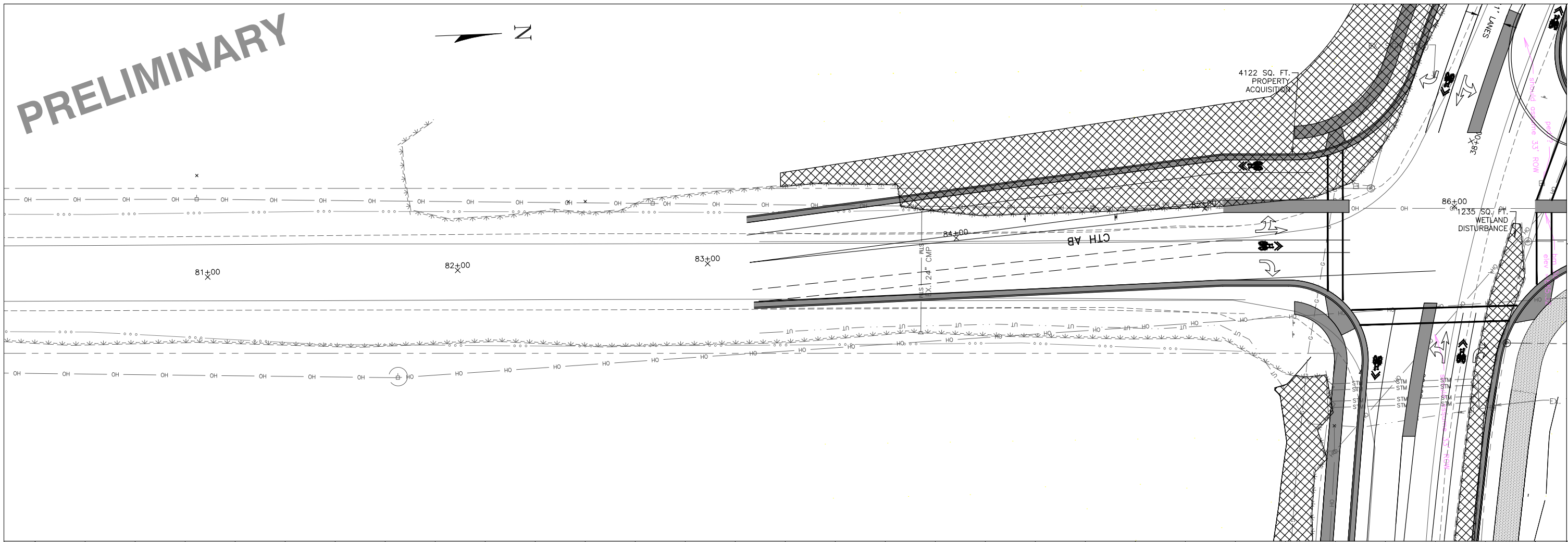


SHEET:
A6



PRELIMINARY

PRELIMINARY



PRELIMINARY

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PLAN & PROFILE
CTH AB
 Station 80+40 To Station 86+40

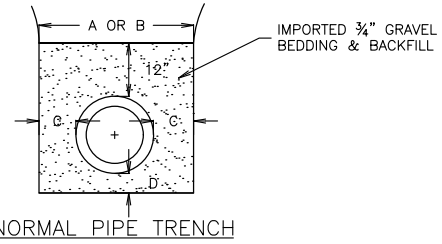
2021 STREET AND UTILITY IMPROVEMENTS
CTH MN
 Village of McFarland, Wisconsin

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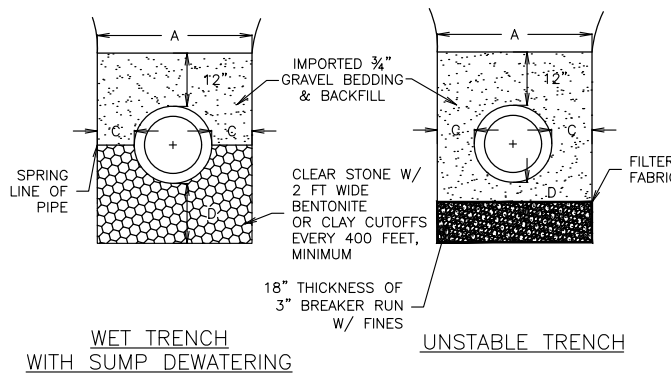
SCALE: HORIZONTAL
 0 5 10 20
 VERTICAL
 1 2
 SHEET:

A7

DIMENSIONS:
 A: OUTSIDE DIAMETER OF PIPE PLUS 24" MAXIMUM, EXCEPT NEED NOT BE LESS THAN 36". TRENCH SHIELDS NARROWER THAN 4 FEET INSIDE WIDTH WILL NOT BE REQUIRED UNLESS SPECIFICALLY REQUIRED IN THE PROJECT SPECIFICATIONS.
 B: FOR ROCK, OUTSIDE DIAMETER OF PIPE PLUS 18" MAXIMUM, EXCEPT NEED NOT BE LESS THAN 36".
 C: MINIMUM - 6"
 D: MINIMUM 4" BELOW BARREL AND 3" BELOW BELL.



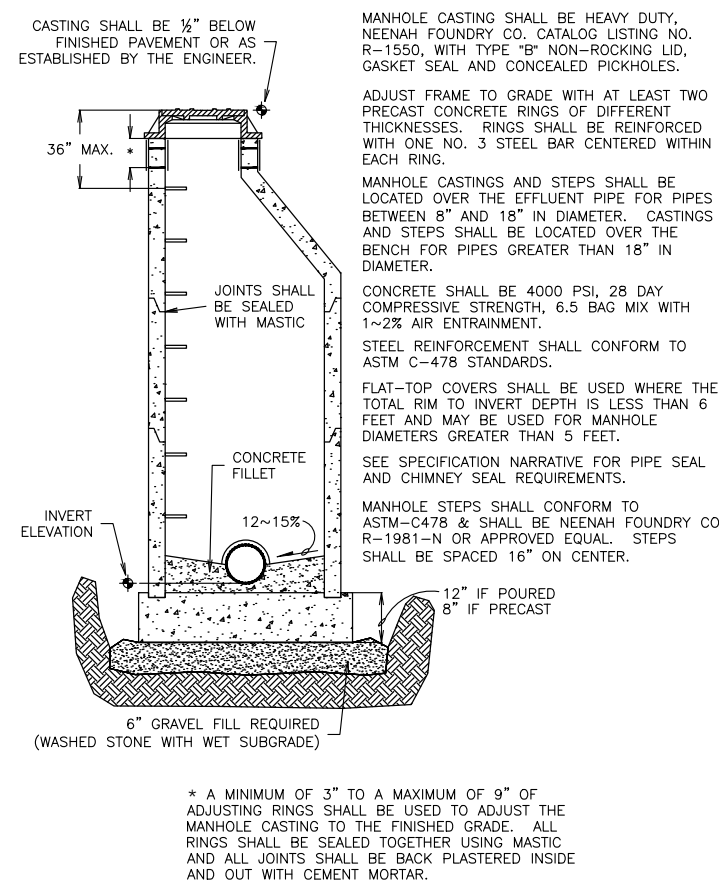
NORMAL PIPE TRENCH



WET TRENCH WITH SUMP DEWATERING

UNSTABLE TRENCH

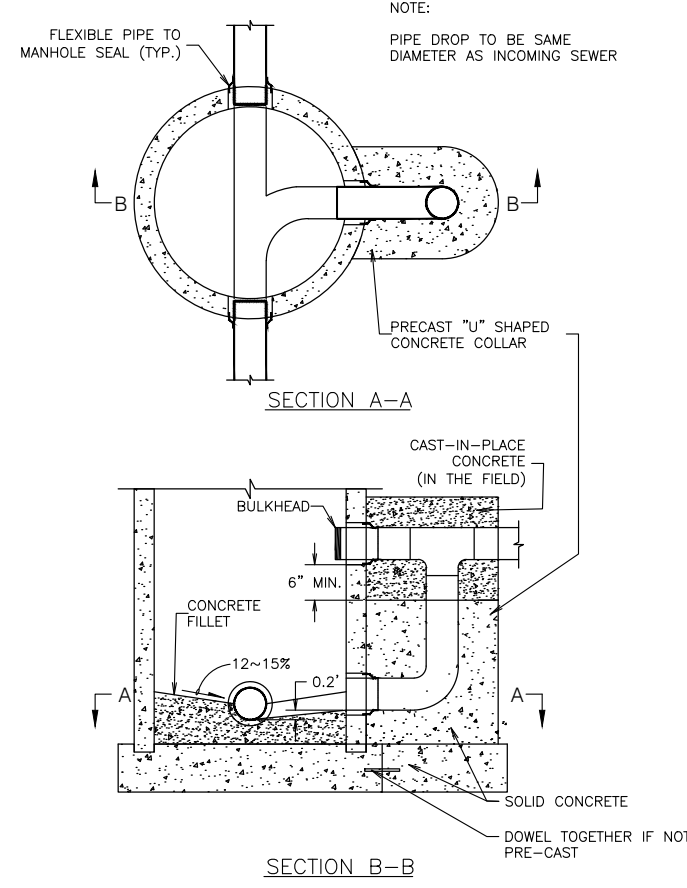
DETAIL TRENCH WIDTH AND BEDDING



NOTES:
 MANHOLE CASTING SHALL BE HEAVY DUTY, NEENAH FOUNDRY CO. CATALOG LISTING NO. R-1550, WITH TYPE "B" NON-ROCKING LID, GASKET SEAL AND CONCEALED PICKHOLES.
 ADJUST FRAME TO GRADE WITH AT LEAST TWO PRECAST CONCRETE RINGS OF DIFFERENT THICKNESSES. RINGS SHALL BE REINFORCED WITH ONE NO. 3 STEEL BAR CENTERED WITHIN EACH RING.
 MANHOLE CASTINGS AND STEPS SHALL BE LOCATED OVER THE EFFLUENT PIPE FOR PIPES BETWEEN 8" AND 18" IN DIAMETER. CASTINGS AND STEPS SHALL BE LOCATED OVER THE BENCH FOR PIPES GREATER THAN 18" IN DIAMETER.
 CONCRETE SHALL BE 4000 PSI, 28 DAY COMPRESSIVE STRENGTH, 6.5 BAG MIX WITH 1~2% AIR ENTRAINMENT.
 STEEL REINFORCEMENT SHALL CONFORM TO ASTM C-478 STANDARDS.
 FLAT-TOP COVERS SHALL BE USED WHERE THE TOTAL RIM TO INVERT DEPTH IS LESS THAN 6 FEET AND MAY BE USED FOR MANHOLE DIAMETERS GREATER THAN 5 FEET.
 SEE SPECIFICATION NARRATIVE FOR PIPE SEAL AND CHIMNEY SEAL REQUIREMENTS.
 MANHOLE STEPS SHALL CONFORM TO ASTM-C478 & SHALL BE NEENAH FOUNDRY CO. R-1981-N OR APPROVED EQUAL. STEPS SHALL BE SPACED 16" ON CENTER.

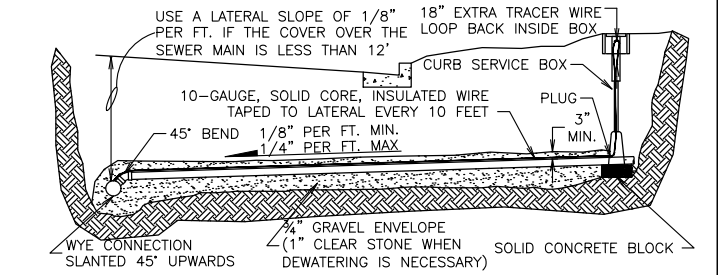
* A MINIMUM OF 3" TO A MAXIMUM OF 9" OF ADJUSTING RINGS SHALL BE USED TO ADJUST THE MANHOLE CASTING TO THE FINISHED GRADE. ALL RINGS SHALL BE SEALED TOGETHER USING MASTIC AND ALL JOINTS SHALL BE BACK PLASTERED INSIDE AND OUT WITH CEMENT MORTAR.

DETAIL MANHOLE



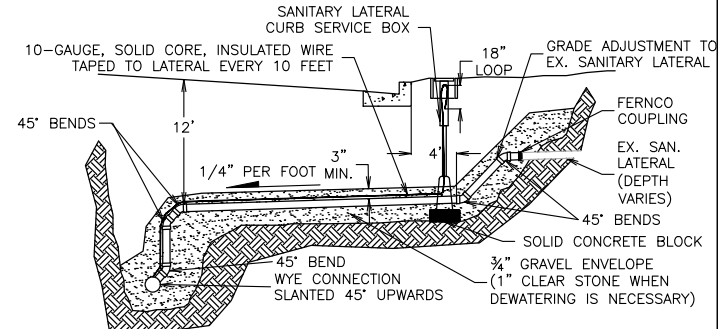
NOTE:
 PIPE DROP TO BE SAME DIAMETER AS INCOMING SEWER

DETAIL DROP MANHOLE ENTRANCE



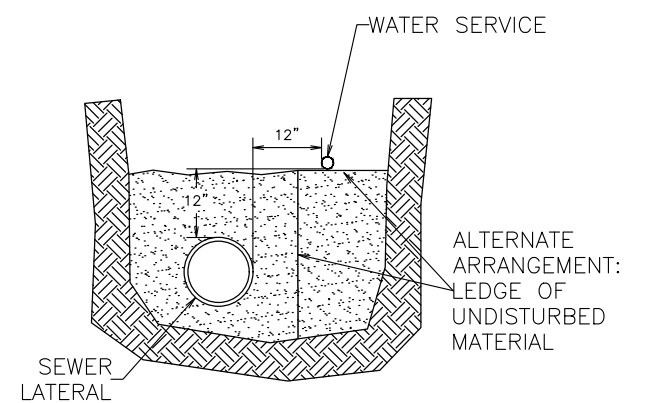
STANDARD INSTALLATION

- NOTES:
 1. CONSTRUCT LATERALS IN CONFORMANCE WITH CHAPTER SPS 382 OF THE WISCONSIN ADMINISTRATIVE CODE.
 2. LATERAL SLOPE SHALL BE 1/4" PER FOOT WHERE SUFFICIENT COVER EXISTS.
 3. CONTRACTOR SHALL VERIFY SIZE, DEPTH, AND LOCATION OF EXISTING LATERALS.
 4. WHERE LATERALS ARE NOT IMMEDIATELY CONNECTED TO BUILDING SEWERS THE ENDS OF THE LATERALS SHALL BE MARKED BY POSITIONING 4"x4" BOARDS VERTICALLY FROM THE ENDS OF THE LATERALS TO AT LEAST 2' ABOVE THE GROUND SURFACE.
 5. THE LOCATION OF ALL SEWER LATERALS CROSSING UNDER THE CURB & GUTTER SHALL BE MARKED BY STAMPING AN "S" IN THE TOP OF THE CURB OVER THE LOCATION OF THE SEWER LATERAL.



INSTALLATION WITH VERTICAL RISER

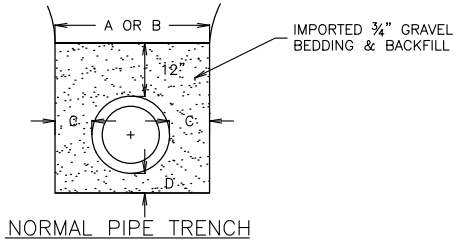
DETAIL SANITARY SEWER LATERAL



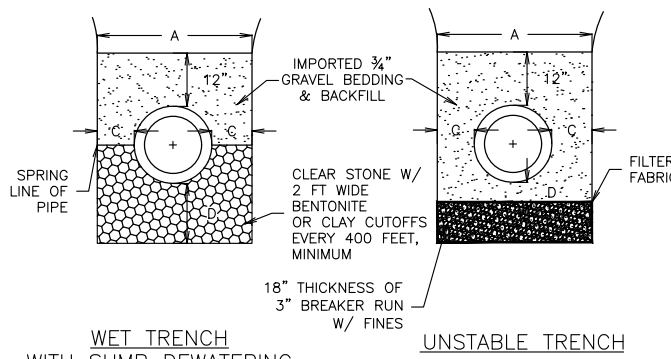
ALTERNATE ARRANGEMENT: LEDGE OF UNDISTURBED MATERIAL
 SEWER LATERAL
 WATER SERVICE
 PRELIMINARY
 DETAIL JOINT TRENCH INSTALLATION

PROJECT NO.:	MC 174
DRAWING FILE:	MC 174 DETAILS.DWG
DRAWN BY:	J.R.K.
CHECKED BY:	N.R.B.
DATE:	7-15-20
REVISIONS:	
SCALE:	N.T.S.
SHEET:	X

DIMENSIONS:
 A: OUTSIDE DIAMETER OF PIPE PLUS 24" MAXIMUM, EXCEPT NEED NOT BE LESS THAN 36". TRENCH SHIELDS NARROWER THAN 4 FEET INSIDE WIDTH WILL NOT BE REQUIRED UNLESS SPECIFICALLY REQUIRED IN THE PROJECT SPECIFICATIONS.
 B: FOR ROCK, OUTSIDE DIAMETER OF PIPE PLUS 18" MAXIMUM, EXCEPT NEED NOT BE LESS THAN 36".
 C: MINIMUM - 6"
 D: MINIMUM 4" BELOW BARREL AND 3" BELOW BELL.



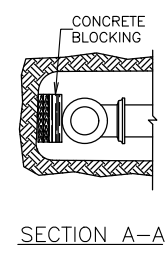
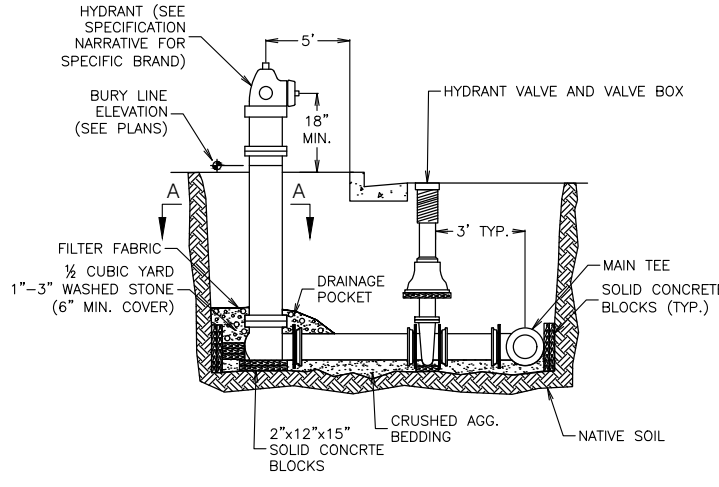
NORMAL PIPE TRENCH



WET TRENCH WITH SUMP DEWATERING

UNSTABLE TRENCH

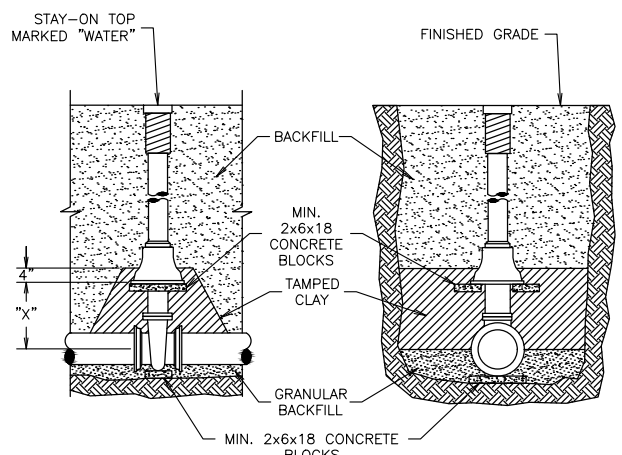
DETAIL TRENCH WIDTH AND BEDDING



SECTION A-A

NOTES:
 - THE HYDRANT AND HYDRANT VALVE SHALL BE CONNECTED TO THE MAIN TEE BY MEGALUGS.
 - FILTER FABRIC SHALL BE WRAPPED AROUND THE DRAIN POCKET.
 - WHERE THE HYDRANT IS INSTALLED AT THE HIGH POINT OF THE WATER MAIN ON MAINS 10 INCHES IN DIAMETER AND LARGER, THE CONTRACTOR SHALL TIP THE MAIN TEE UPWARDS 45 DEGREES AND USE A 45 DEGREE FITTING TO ALLOW AIR TO ESCAPE FROM THE MAIN.
 - WHERE THE LOCATION OF THE HYDRANT VALVE BOX WOULD BE IN ANY PORTION OF THE CURB AND GUTTER, THE CONTRACTOR SHALL PLACE THE VALVE IN THE TERRACE AREA.

DETAIL HYDRANT SETTING



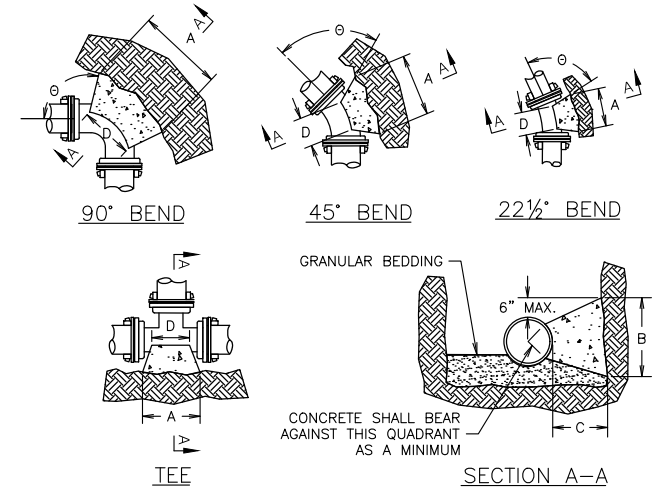
VIEW ALONG PIPELINE

SECTION VIEW

PIPE DIA., INCHES	6	8	10	12	14	16
"X" DIMENSION, INCHES	12	13	17	21	25	30

NOTES:
 - SOLID CONCRETE BLOCKS MUST BE USED.
 - VALVES SHALL BE SECURED WITH RODDING OR MEGALUGS TO THE NEAREST "TEE" FITTING OR TO THE FIRST JOINT CONNECTING A FULL SECTION OF WATER MAIN PIPE. SEE RODDING DETAIL "OFFSET AND RODDING".

DETAIL VALVE BOX SETTING



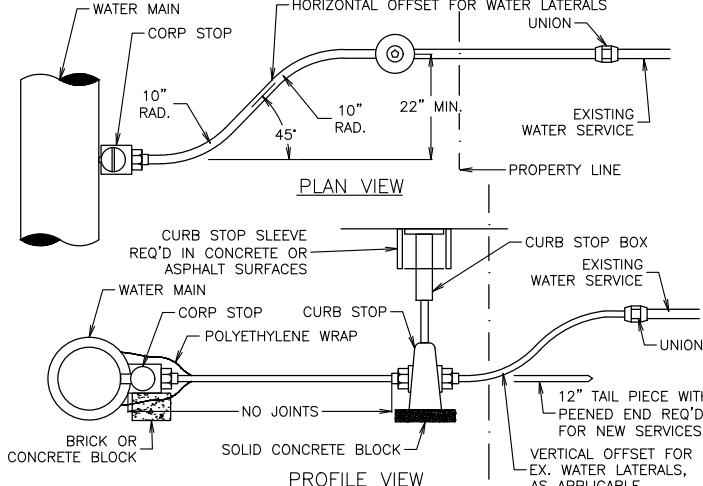
WOOD BLOCKING MAY NOT BE USED. ONLY SOLID CONCRETE BLOCKS ARE ALLOWED.
 DIMENSION "D" SHALL BE AS LARGE AS POSSIBLE, BUT THE CONCRETE SHALL NOT INTERFERE WITH THE MECHANICAL JOINTS.
 DIMENSION "C" SHALL BE AT LEAST 6 INCHES, AND LARGE ENOUGH TO MAKE THE "theta" ANGLE EQUAL TO OR GREATER THAN 45 DEGREES WITH THE DIMENSION "A" AS SHOWN ON THE TABLE, OR GREATER, AND WITH DIMENSION "D" AS LARGE AS POSSIBLE.

CONCRETE SHALL BE CLASS "CC". SEE SECTION 03301.

PIPE SIZE*	BUTTRUSS DIMENSIONS							
	TEES		22.5° BEND		45° BEND		90° BEND	
	A	B	A	B	A	B	A	B
6	1'-3"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"
8	1'-6"	1'-4"	1'-0"	1'-0"	1'-4"	1'-2"	1'-10"	1'-6"
10/12	2'-3"	2'-0"	1'-4"	1'-4"	1'-10"	1'-10"	2'-8"	2'-3"
14/16	3'-2"	2'-6"	1'-10"	1'-8"	2'-6"	2'-4"	3'-10"	2'-10"
18/20	4'-0"	3'-0"	2'-4"	2'-0"	3'-3"	2'-10"	5'-0"	3'-4"
22/24	5'-3"	3'-4"	2'-10"	2'-4"	4'-0"	3'-3"	6'-4"	3'-10"
30	6'-3"	4'-3"	3'-6"	3'-0"	5'-4"	3'-10"	8'-0"	4'-8"

DIMENSIONS IN THE TABLE ARE BASED ON A WATER PRESSURE OF 150 PSI AND SOIL RESISTANCE OF 2000 LBS./SQ.FT.

DETAIL BUTTRUSS



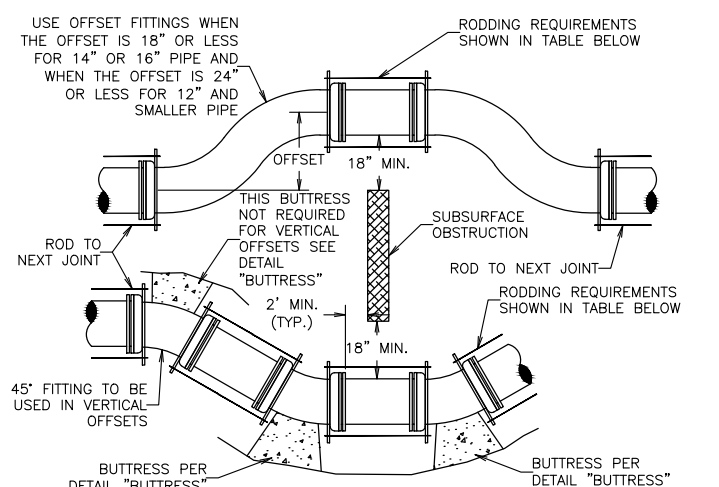
VIEW ALONG PIPELINE

SECTION VIEW

PIPE DIA., INCHES	6	8	10	12	14	16
"X" DIMENSION, INCHES	12	13	17	21	25	30

NOTES:
 - HORIZONTAL AND VERTICAL OFFSETS SHALL BE MADE WITH AN APPROVED PIPE BENDING TOOL. SHARP BENDS OR KINKS IN THE WATER SERVICE ARE NOT ALLOWED.
 - VERTICAL OFFSETS SHALL BE MADE ON THE PROPERTY LINE SIDE OF THE CURB STOP.
 - PLASTIC OR CAST IRON CURB BOX SLEEVES SHALL BE INSTALLED WHERE CURB BOXES ARE INSTALLED IN CONCRETE OR ASPHALT SURFACES.
 - THE SEWER LATERAL SHALL BE LOCATED ON THE DOWNSTREAM SIDE OF THE WATER SERVICE, BASED ON SEWER MAIN FLOW DIRECTION.
 - THE LOCATION OF ALL WATER SERVICES CROSSING UNDER THE CURB & GUTTER SHALL BE MARKED BY STAMPING A "W" IN THE TOP OF CURB OVER THE LOCATION OF THE WATER SERVICE LINE.

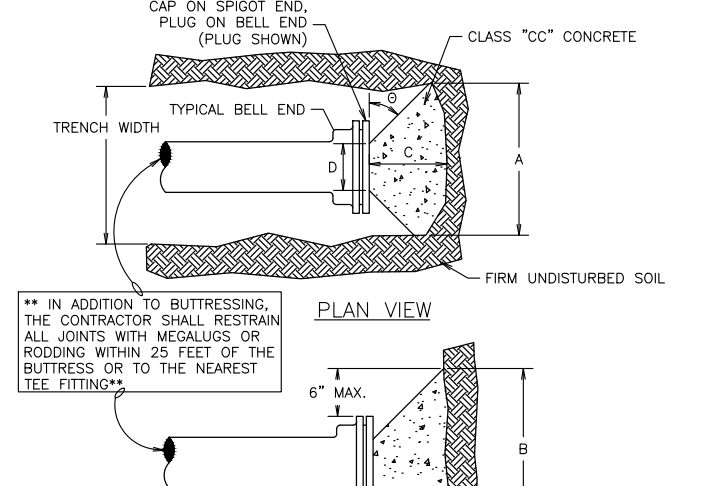
DETAIL WATER SERVICE INSTALLATION



NOMINAL PIPE SIZE	RODS NO.	RODS DIA.	STRAP SIZE	BOLT DIA.	WASHER SIZE
6	3	3/8"	1/2" x 2"	3/8"	1/2" x 3 x 5
8	4	3/8"	1/2" x 2"	3/8"	1/2" x 3 x 5
10	4	3/8"	1/2" x 2 1/2"	1"	1/2" x 3 x 5
12	4	3/8"	1/2" x 2 1/2"	1"	1/2" x 3 x 5
14	4	3/8"	1/2" x 2 1/2"	1"	1/2" x 3 x 5

ALL DIMENSIONS IN THIS TABLE ARE IN INCHES.
 NOTES:
 - RODS AND WASHERS TO BE ASTM A-575 MERCHANT QUALITY 0.17-0.24 CARBON. NUTS TO BE AMERICAN STANDARD HEAVY, NOT PRESSED.
 - TIE RODS, BOLTS, NUTS, BANDS AND WASHERS TO BE FURNISHED AND ASSEMBLED BY THE CONTRACTOR.
 - ALL STEEL MATERIAL TO BE GALVANIZED OR THOROUGHLY COATED WITH ENGINEER APPROVED COATING.
 - OFFSET FITTINGS REQUIRE CONTINUOUS RODDING IN ALL POSITIONS.
 - VERTICAL OFFSETS SHALL NOT CREATE A HIGH POINT IN THE WATER MAIN. VERTICAL OFFSETS REQUIRE THE SAME RODDING AND BUTTRUSSING AS SHOWN ABOVE.
 - MEGALUG RESTRAINTS MAY BE USED IN LIEU OF RODDING.

DETAIL OFFSET AND RODDING



VIEW ALONG PIPELINE

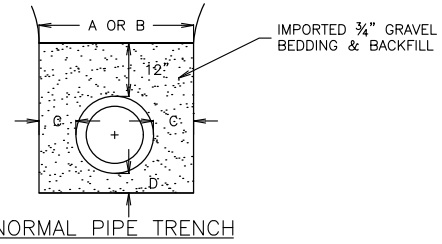
SECTION VIEW

PIPE DIA., INCHES	6	8	10	12	14	16
"X" DIMENSION, INCHES	12	13	17	21	25	30

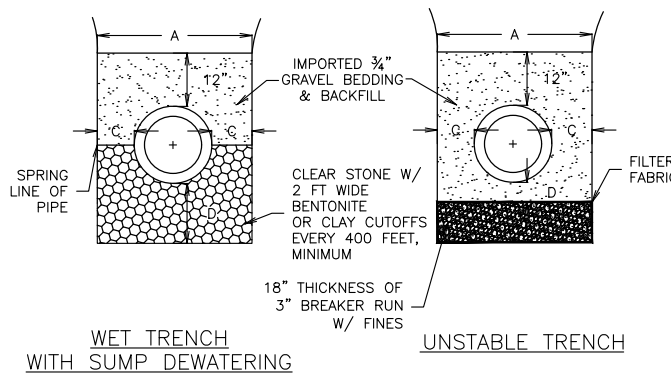
NOTES:
 - DIMENSION "C" SHALL BE LARGE ENOUGH TO MAKE ANGLE theta EQUAL TO OR GREATER THAN 45°.
 - DIMENSION "D" EQUALS APPROX. I.D. OF PIPE, LESS 2 INCHES. CONTRACTOR SHALL PROTECT THE MECH. JOINT BOLTS FROM THE CONCRETE BUTTRUSS.
 - BUTTRUSS DIMENSIONS ARE BASED UPON A SOIL RESISTANCE OF 2 TONS PER SQ. FT. AND A WATER PRESSURE OF 150 P.S.I.

DETAIL BUTTRUSS FOR DEAD ENDS

DIMENSIONS:
 A: OUTSIDE DIAMETER OF PIPE PLUS 24" MAXIMUM, EXCEPT NEED NOT BE LESS THAN 36". TRENCH SHIELDS NARROWER THAN 4 FEET INSIDE WIDTH WILL NOT BE REQUIRED UNLESS SPECIFICALLY REQUIRED IN THE PROJECT SPECIFICATIONS.
 B: FOR ROCK, OUTSIDE DIAMETER OF PIPE PLUS 18" MAXIMUM, EXCEPT NEED NOT BE LESS THAN 36".
 C: MINIMUM - 6"
 D: MINIMUM 4" BELOW BARREL AND 3" BELOW BELL.



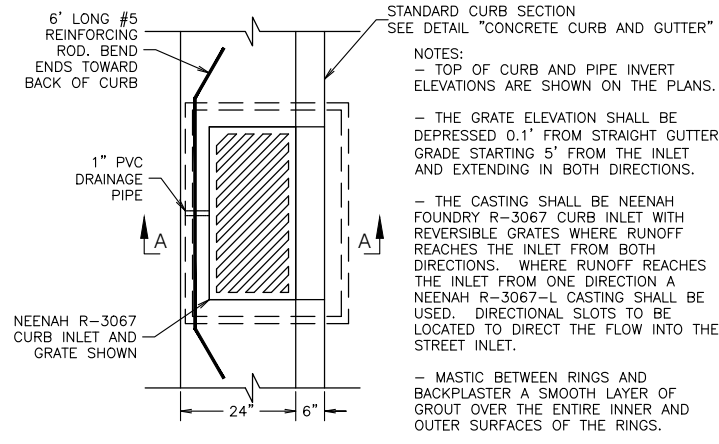
NORMAL PIPE TRENCH



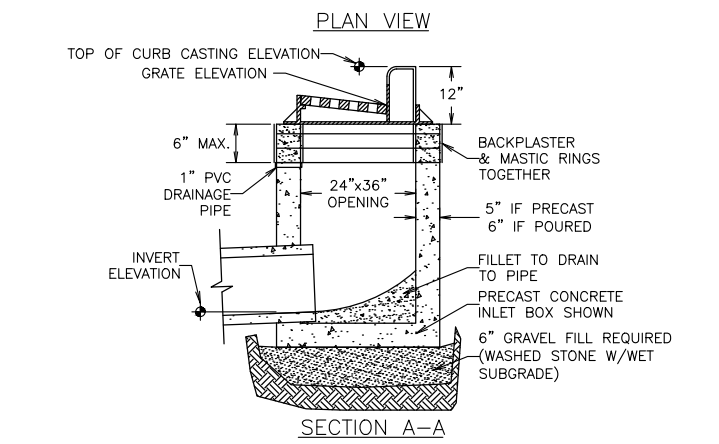
WET TRENCH WITH SUMP DEWATERING

UNSTABLE TRENCH

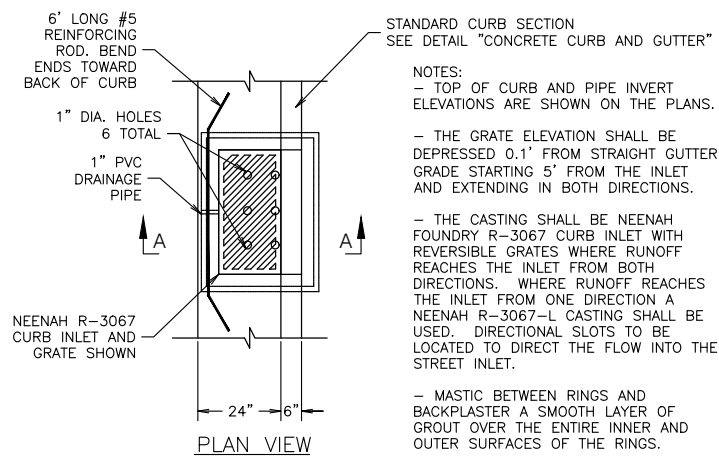
DETAIL
TRENCH WIDTH AND BEDDING



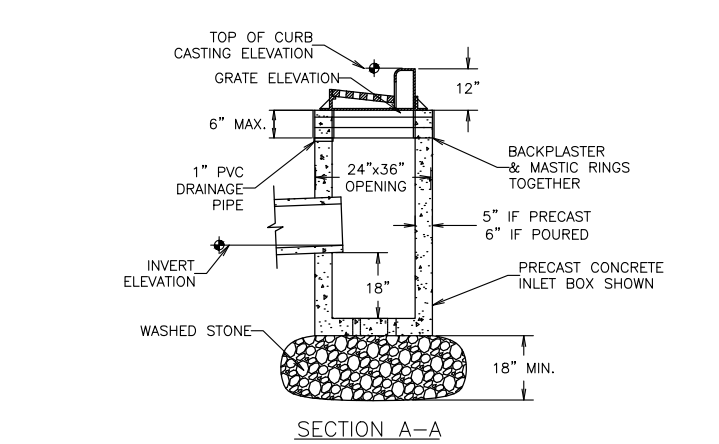
STANDARD CURB SECTION
 SEE DETAIL "CONCRETE CURB AND GUTTER"
 NOTES:
 - TOP OF CURB AND PIPE INVERT ELEVATIONS ARE SHOWN ON THE PLANS.
 - THE GRATE ELEVATION SHALL BE DEPRESSED 0.1' FROM STRAIGHT GUTTER GRADE STARTING 5' FROM THE INLET AND EXTENDING IN BOTH DIRECTIONS.
 - THE CASTING SHALL BE NEENAH FOUNDRY R-3067 CURB INLET WITH REVERSIBLE GRATES WHERE RUNOFF REACHES THE INLET FROM BOTH DIRECTIONS. WHERE RUNOFF REACHES THE INLET FROM ONE DIRECTION A NEENAH R-3067-L CASTING SHALL BE USED. DIRECTIONAL SLOTS TO BE LOCATED TO DIRECT THE FLOW INTO THE STREET INLET.
 - MASTIC BETWEEN RINGS AND BACKPLASTER A SMOOTH LAYER OF GROUT OVER THE ENTIRE INNER AND OUTER SURFACES OF THE RINGS.



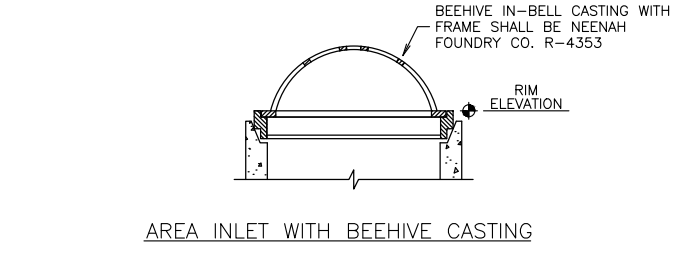
DETAIL
RECTANGULAR CURB INLET



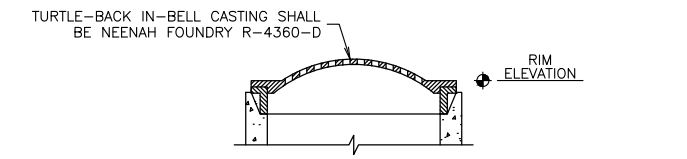
STANDARD CURB SECTION
 SEE DETAIL "CONCRETE CURB AND GUTTER"
 NOTES:
 - TOP OF CURB AND PIPE INVERT ELEVATIONS ARE SHOWN ON THE PLANS.
 - THE GRATE ELEVATION SHALL BE DEPRESSED 0.1' FROM STRAIGHT GUTTER GRADE STARTING 5' FROM THE INLET AND EXTENDING IN BOTH DIRECTIONS.
 - THE CASTING SHALL BE NEENAH FOUNDRY R-3067 CURB INLET WITH REVERSIBLE GRATES WHERE RUNOFF REACHES THE INLET FROM BOTH DIRECTIONS. WHERE RUNOFF REACHES THE INLET FROM ONE DIRECTION A NEENAH R-3067-L CASTING SHALL BE USED. DIRECTIONAL SLOTS TO BE LOCATED TO DIRECT THE FLOW INTO THE STREET INLET.
 - MASTIC BETWEEN RINGS AND BACKPLASTER A SMOOTH LAYER OF GROUT OVER THE ENTIRE INNER AND OUTER SURFACES OF THE RINGS.



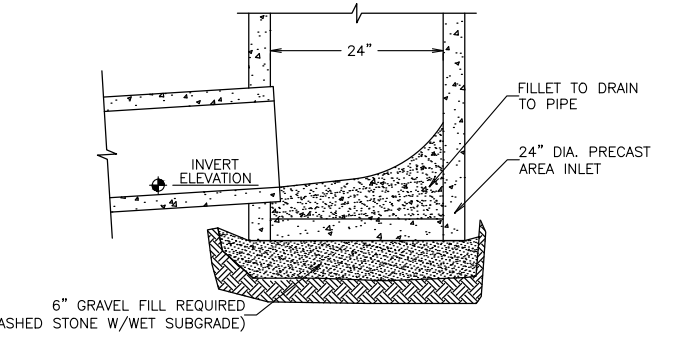
DETAIL
RECTANGULAR CATCH BASIN



AREA INLET WITH BEEHIVE CASTING

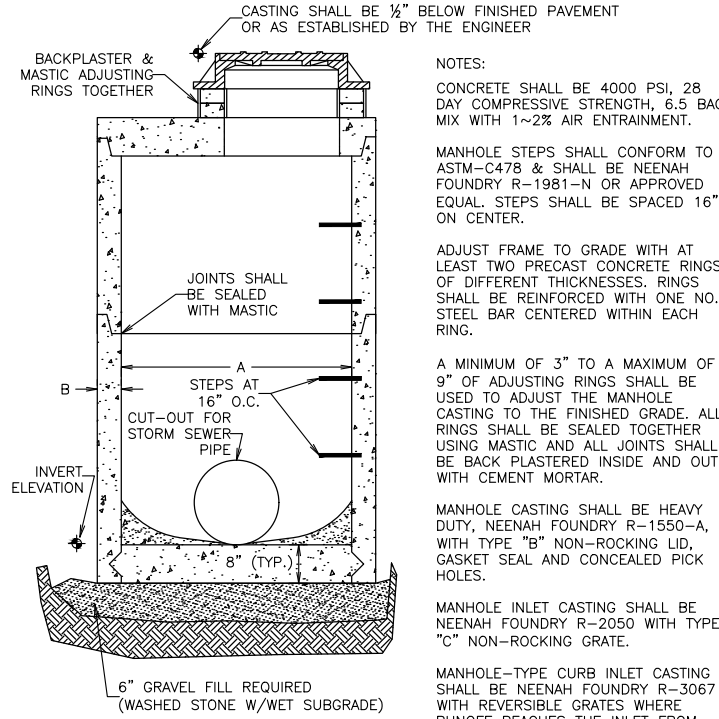


AREA INLET WITH TURTLE-BACK CASTING



AREA INLET BOTTOM SECTION

DETAIL
AREA INLET

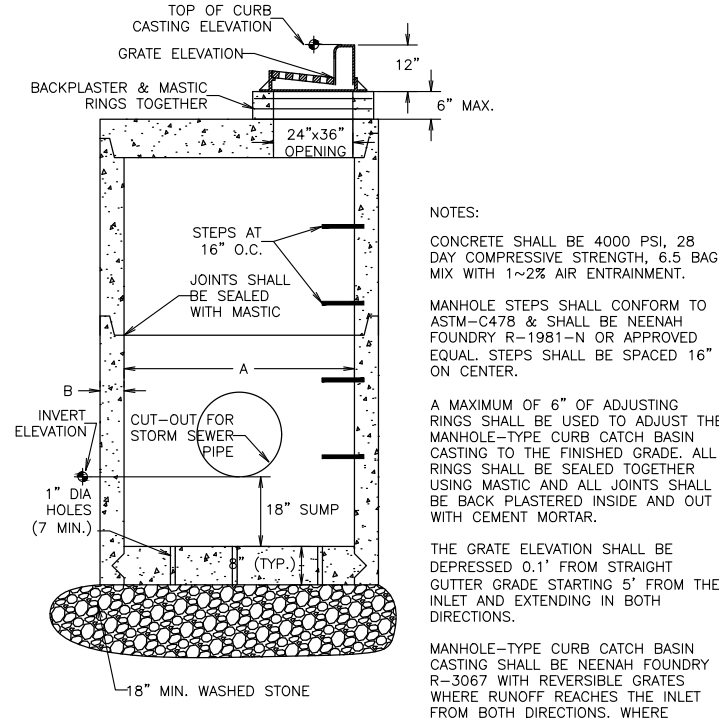


NOTES:
 CONCRETE SHALL BE 4000 PSI, 28 DAY COMPRESSIVE STRENGTH, 6.5 BAG MIX WITH 1-2% AIR ENTRAINMENT.
 MANHOLE STEPS SHALL CONFORM TO ASTM-C478 & SHALL BE NEENAH FOUNDRY R-1981-N OR APPROVED EQUAL. STEPS SHALL BE SPACED 16" ON CENTER.
 ADJUST FRAME TO GRADE WITH AT LEAST TWO PRECAST CONCRETE RINGS OF DIFFERENT THICKNESSES. RINGS SHALL BE REINFORCED WITH ONE NO.3 STEEL BAR CENTERED WITHIN EACH RING.
 A MINIMUM OF 3" TO A MAXIMUM OF 9" OF ADJUSTING RINGS SHALL BE USED TO ADJUST THE MANHOLE CASTING TO THE FINISHED GRADE. ALL RINGS SHALL BE SEALED TOGETHER USING MASTIC AND ALL JOINTS SHALL BE BACK PLASTERED INSIDE AND OUT WITH CEMENT MORTAR.
 MANHOLE CASTING SHALL BE HEAVY DUTY, NEENAH FOUNDRY R-1550-A, WITH TYPE "B" NON-ROCKING LID, GASKET SEAL AND CONCEALED PICK HOLES.
 MANHOLE INLET CASTING SHALL BE NEENAH FOUNDRY R-2050 WITH TYPE "C" NON-ROCKING GRADE.

STORM MANHOLE DIMENSIONS

MANHOLE SIZE	DIMENSION	
	A	B (MIN.)
48"	48"	5"
60"	60"	6"
72"	72"	7"
84"	84"	7"
96"	96"	9"

DETAIL
STORM SEWER MANHOLE AND INLET

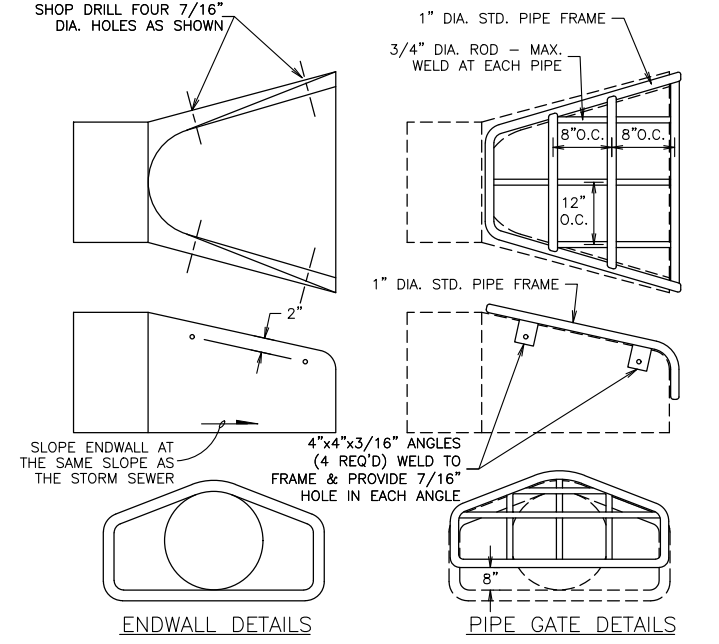


NOTES:
 CONCRETE SHALL BE 4000 PSI, 28 DAY COMPRESSIVE STRENGTH, 6.5 BAG MIX WITH 1-2% AIR ENTRAINMENT.
 MANHOLE STEPS SHALL CONFORM TO ASTM-C478 & SHALL BE NEENAH FOUNDRY R-1981-N OR APPROVED EQUAL. STEPS SHALL BE SPACED 16" ON CENTER.
 A MAXIMUM OF 6" OF ADJUSTING RINGS SHALL BE USED TO ADJUST THE MANHOLE-TYPE CURB CATCH BASIN CASTING TO THE FINISHED GRADE. ALL RINGS SHALL BE SEALED TOGETHER USING MASTIC AND ALL JOINTS SHALL BE BACK PLASTERED INSIDE AND OUT WITH CEMENT MORTAR.
 THE GRATE ELEVATION SHALL BE DEPRESSED 0.1' FROM STRAIGHT GUTTER GRADE STARTING 5' FROM THE INLET AND EXTENDING IN BOTH DIRECTIONS.
 MANHOLE-TYPE CURB CATCH BASIN CASTING SHALL BE NEENAH FOUNDRY R-3067 WITH REVERSIBLE GRATES WHERE RUNOFF REACHES THE INLET FROM BOTH DIRECTIONS. WHERE RUNOFF REACHES THE INLET FROM ONE DIRECTION A NEENAH R-3067-L CASTING SHALL BE USED. DIRECTIONAL SLOTS TO BE LOCATED TO DIRECT THE FLOW INTO THE STREET INLET.
 A 2x3 LID OPENING IS REQUIRED FOR MANHOLE-TYPE CURB CATCH BASINS.

STORM MANHOLE DIMENSIONS

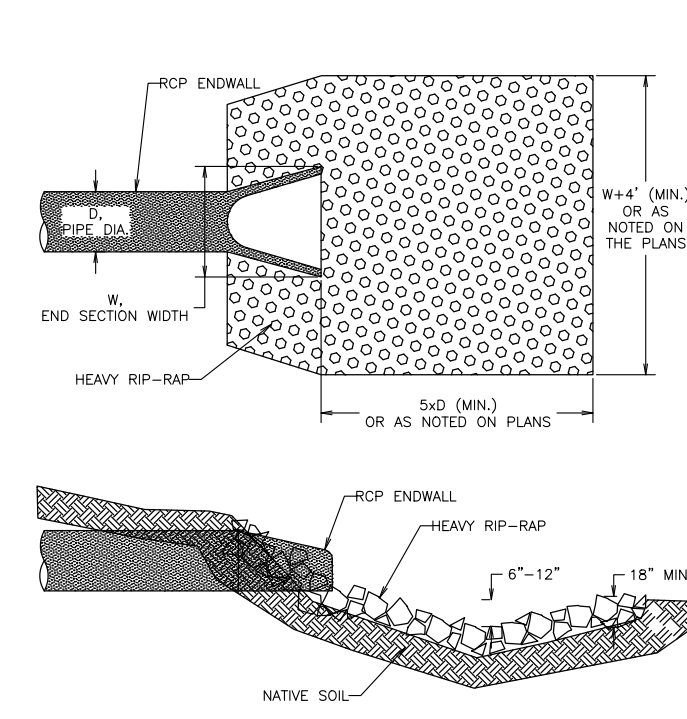
MANHOLE SIZE	DIMENSION	
	A	B (MIN.)
48"	48"	5"
60"	60"	6"
72"	72"	7"
84"	84"	7"
96"	96"	9"

DETAIL
STORM SEWER MANHOLE CATCH BASIN



NOTES:
 - THE CONTRACTOR SHALL BOLT THE PIPE GATE TO THE CONCRETE ENDWALL WITH FOUR 3/8"x6" MACHINE BOLTS WITH NUTS ON INSIDE WALL.
 PAINTING SPECIFICATIONS:
 - THE PIPE GATE SHALL RECEIVE THE FOLLOWING PREPARATION & PAINTING. THE FIRST COAT SHALL BE RUS-OLEUM X-60 RED BARE METAL PRIMER OR APPROVED EQUAL. THE SECOND COAT SHALL BE RUS-OLEUM 960 ZINC CHROMATE PRIMER OR APPROVED EQUAL. THE THIRD COAT SHALL BE RUS-OLEUM 1282 HIGH GLOSS METAL FINISH OR APPROVED EQUAL.
 PREPARATION STEPS:
 1. BARE METAL SURFACES - TREAT WITH THE THREE-COAT PAINTING SYSTEM LISTED AFTER A THOROUGH SCRAPING, WIRE BRUSHING & CLEANING.
 2. EACH COAT OF PAINT SHALL BE APPLIED OVER THE ENTIRE GATE SURFACE.
 3. ALLOW 24-48 HOURS DRYING TIME AT 60° OR ABOVE BETWEEN COATS.

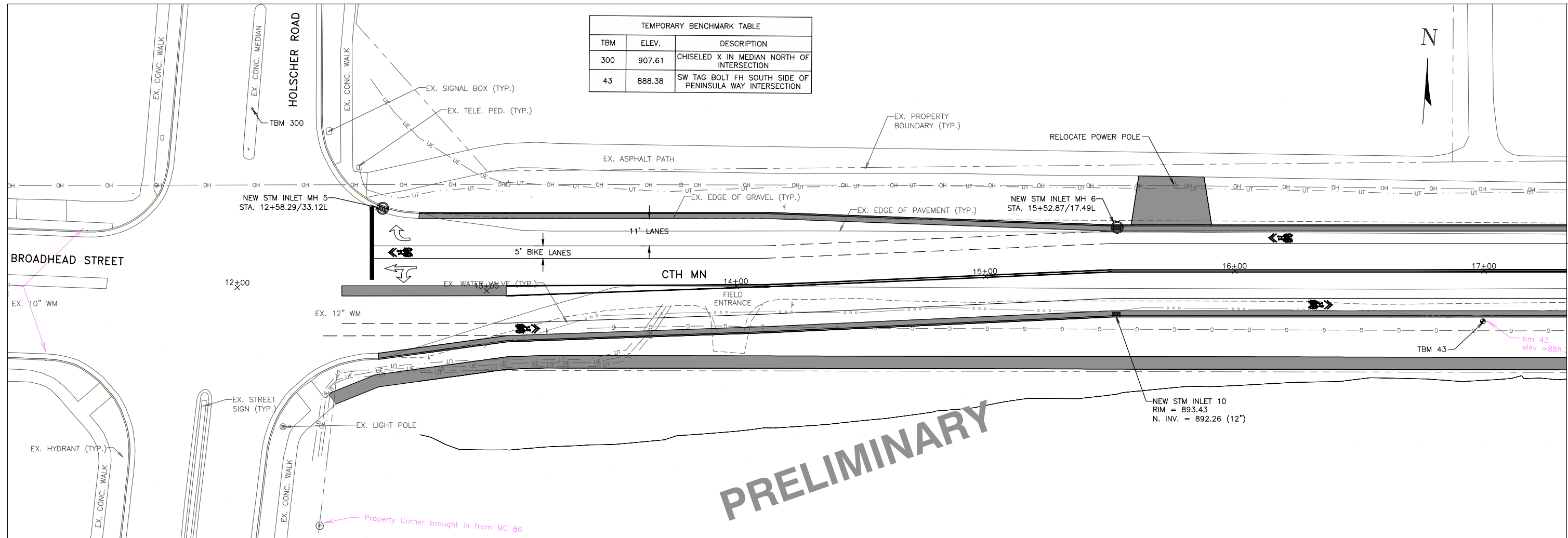
DETAIL
ENDWALLS



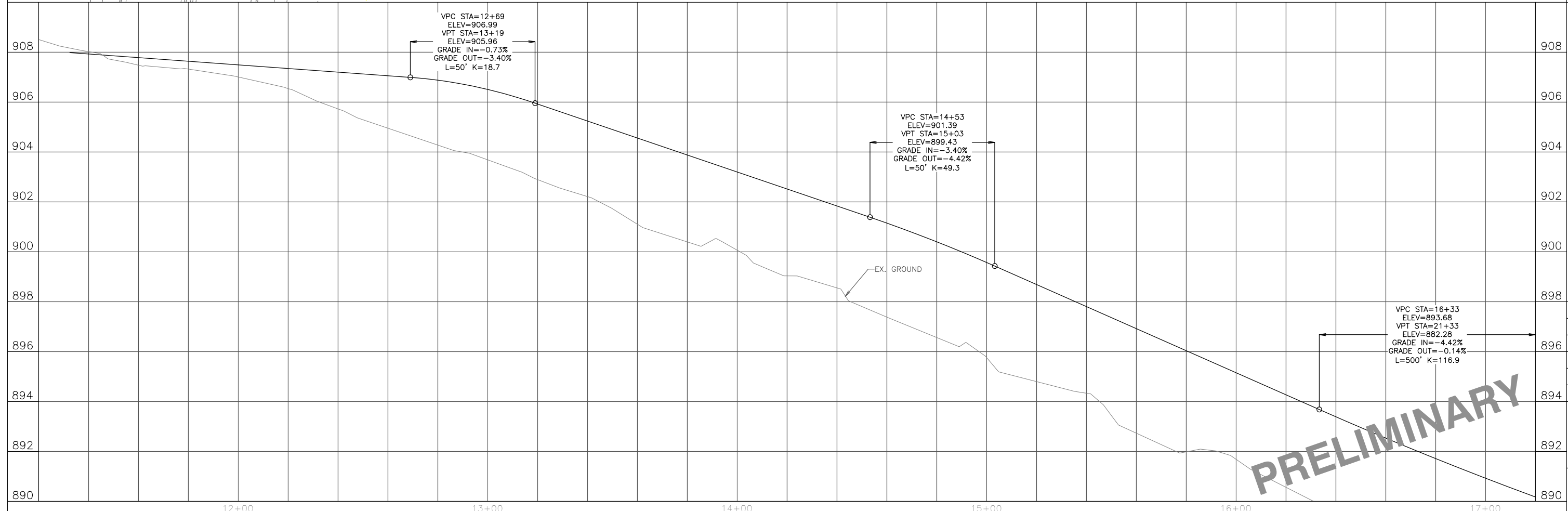
NOTE:
 RIP-RAP SHALL BE A MINIMUM OF 2 C.Y. PER ENDWALL.

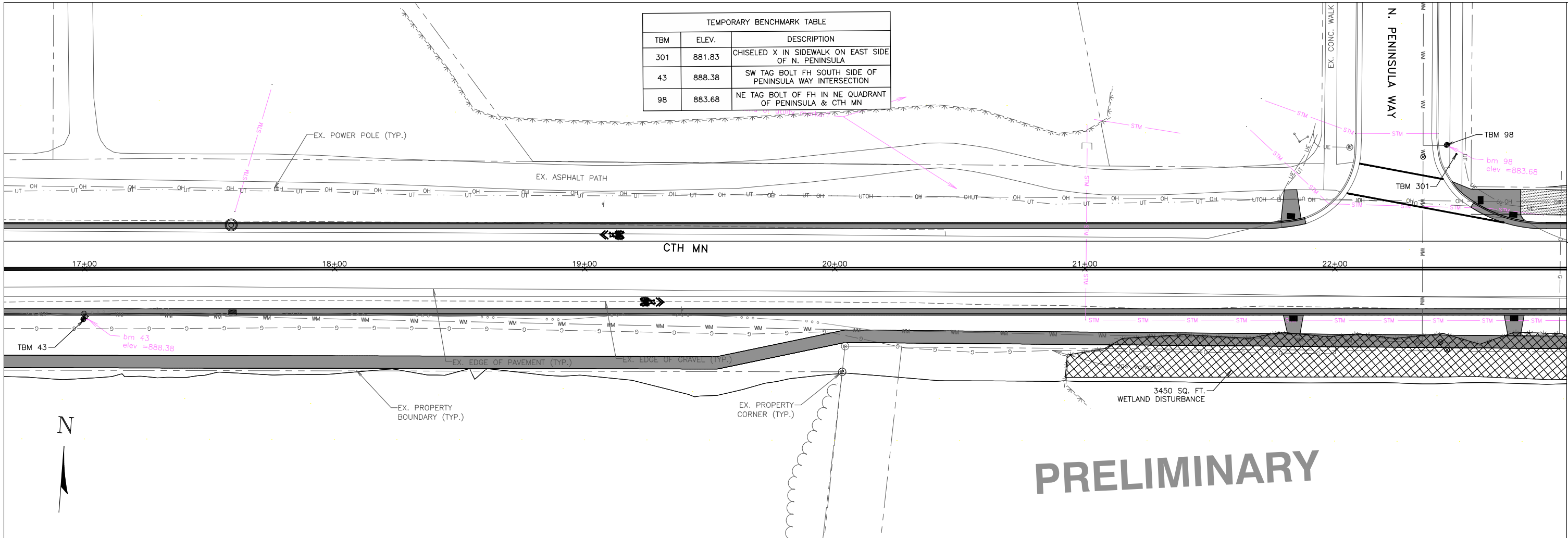
DETAIL
ENDWALL RIP-RAP

PRELIMINARY



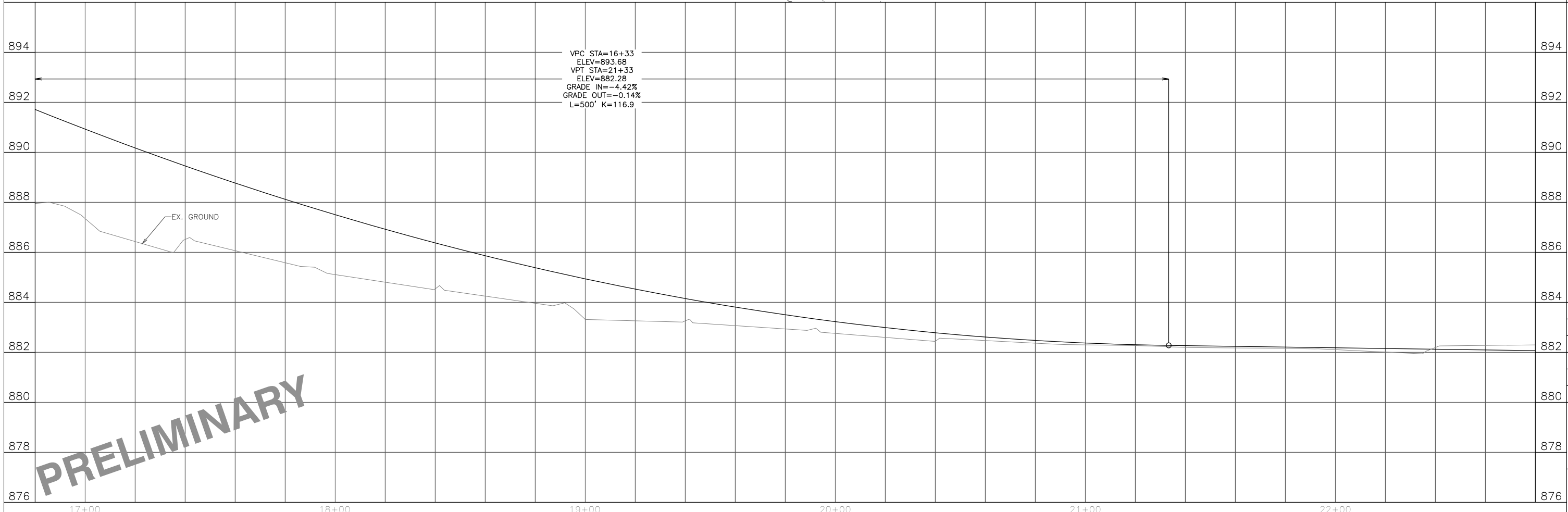
TEMPORARY BENCHMARK TABLE		
TBM	ELEV.	DESCRIPTION
300	907.61	CHISELED X IN MEDIAN NORTH OF INTERSECTION
43	888.38	SW TAG BOLT FH SOUTH SIDE OF PENINSULA WAY INTERSECTION





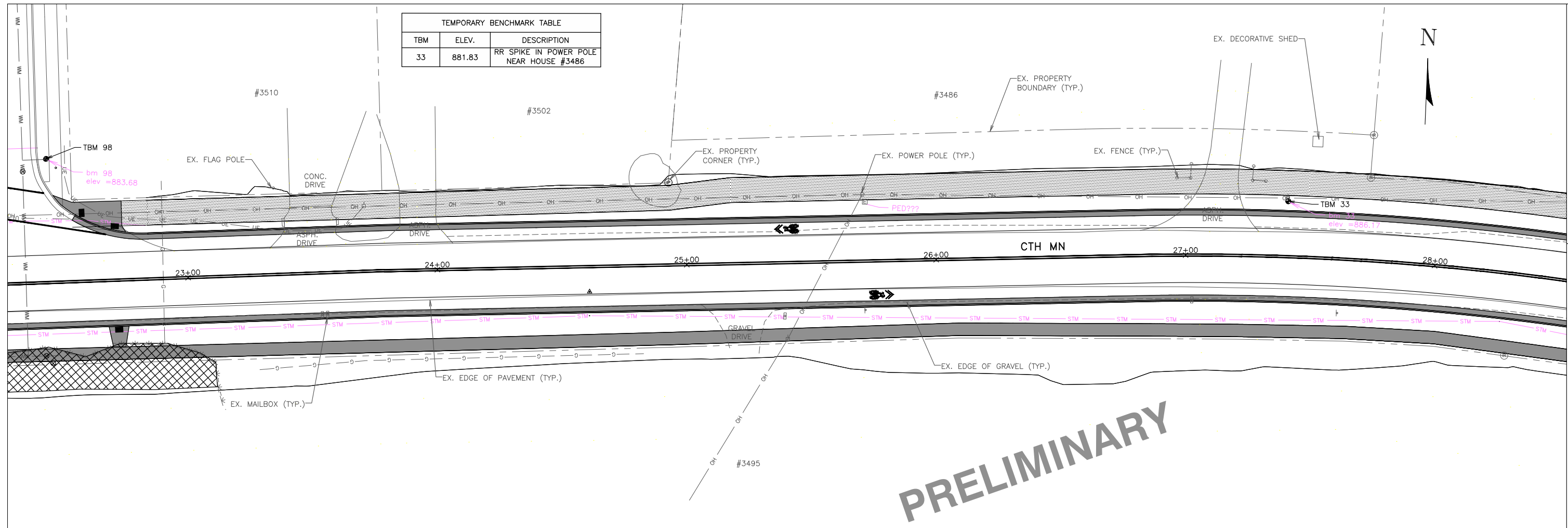
TEMPORARY BENCHMARK TABLE		
TBM	ELEV.	DESCRIPTION
301	881.83	CHISELED X IN SIDEWALK ON EAST SIDE OF N. PENINSULA
43	888.38	SW TAG BOLT FH SOUTH SIDE OF PENINSULA WAY INTERSECTION
98	883.68	NE TAG BOLT OF FH IN NE QUADRANT OF PENINSULA & CTH MN

PRELIMINARY

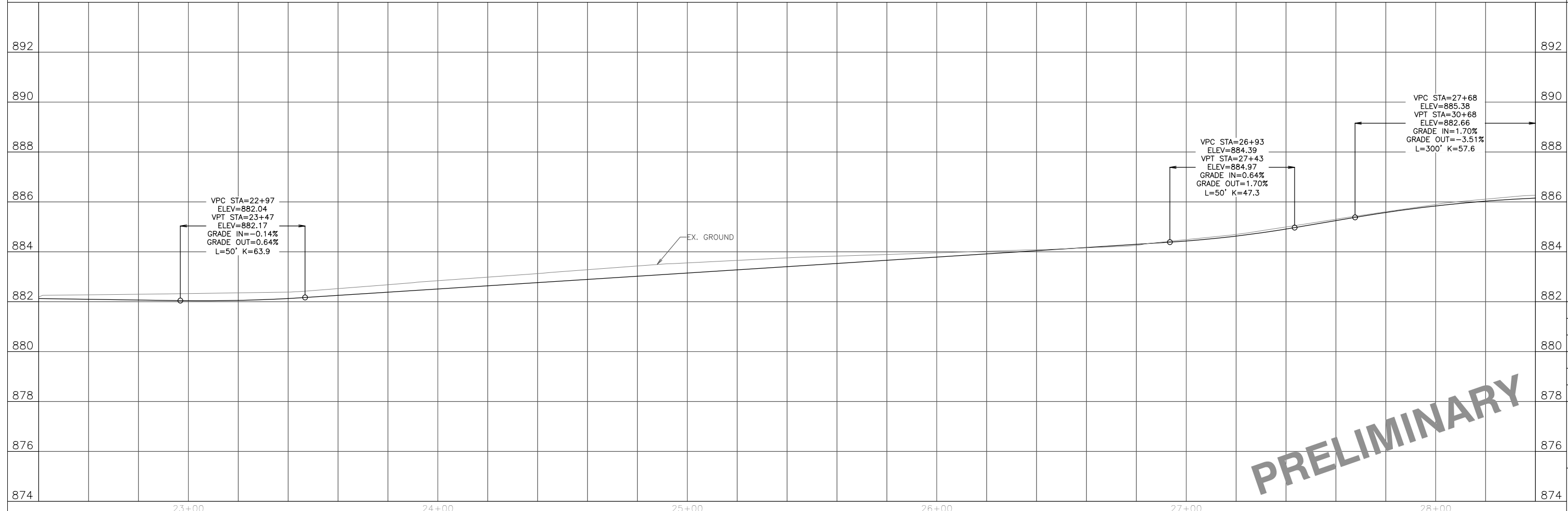


PRELIMINARY

TEMPORARY BENCHMARK TABLE		
TBM	ELEV.	DESCRIPTION
33	881.83	RR SPIKE IN POWER POLE NEAR HOUSE #3486



PRELIMINARY



PRELIMINARY

2912 Marketplace Drive
Suite 103
Madison, WI 53719
(608) 273-3350
www.tcengineers.net

tc TOWN & COUNTRY ENGINEERING, INC.

PLAN & PROFILE
CTH MN
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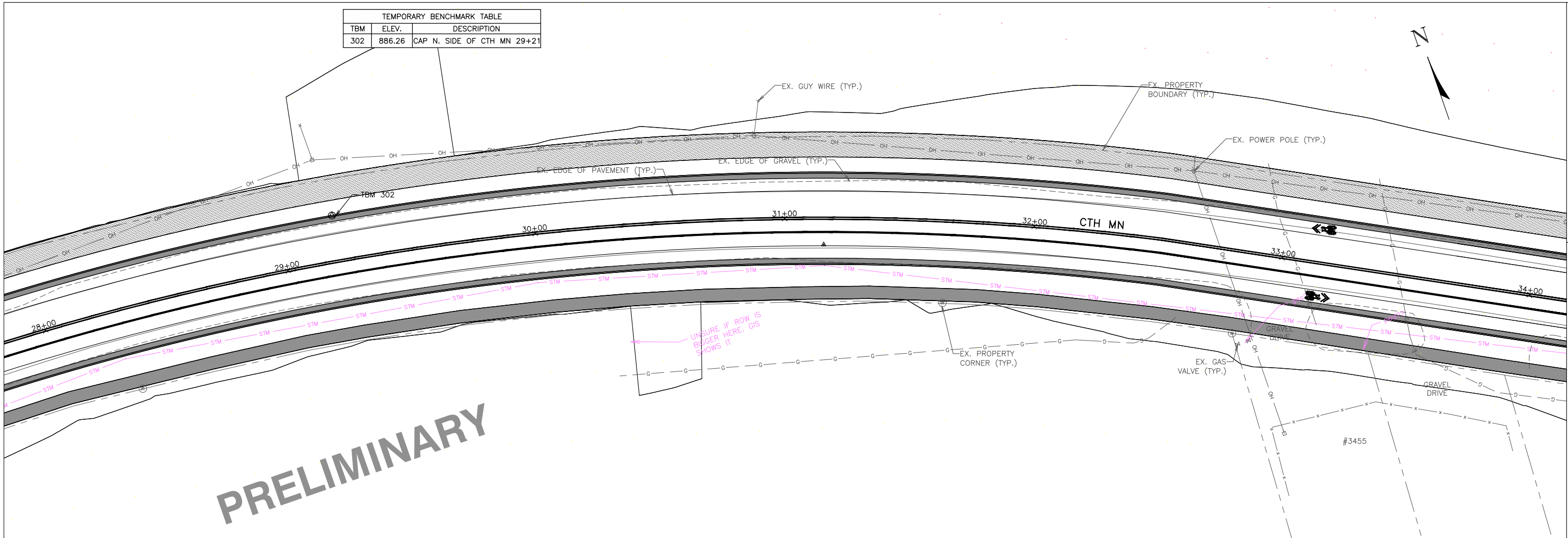
2021 STREET AND UTILITY IMPROVEMENTS
CTH MN
Village of McFarland, Wisconsin

PROJECT NO.: MC 174
DRAWING TITLE: SHEETS.DWG
DRAWN BY: J.R.K.
CHECKED BY: N.R.B.
DATE: 7-15-20
REVISIONS:

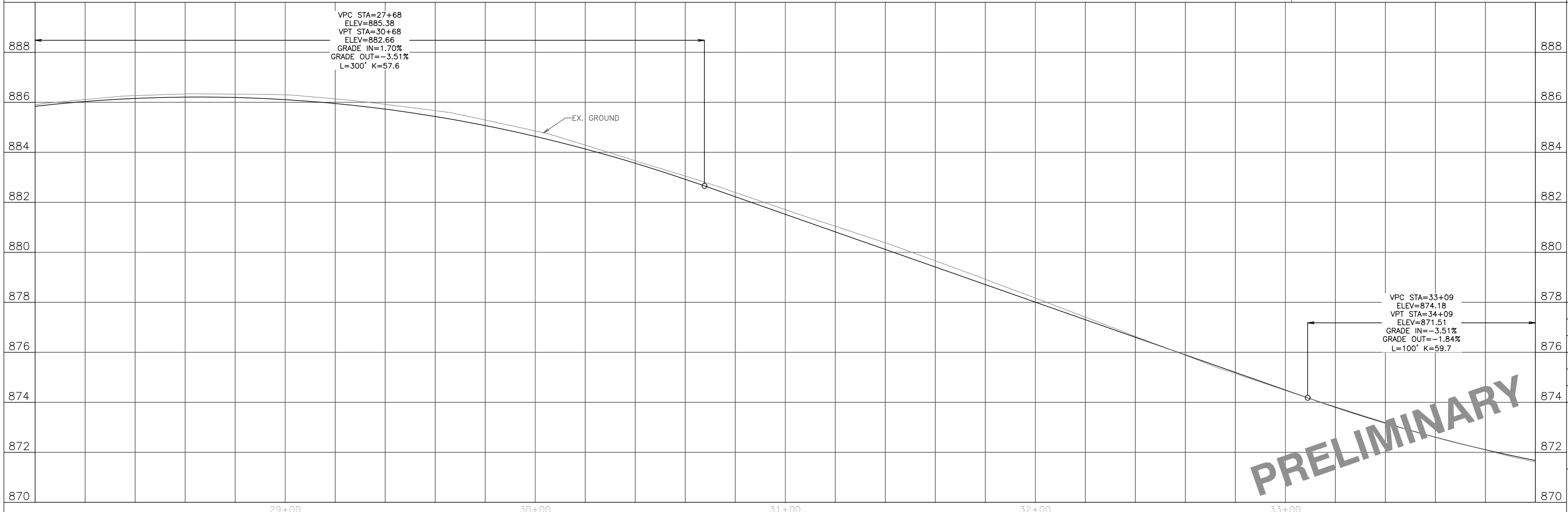
SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 10'

SHEET: B3

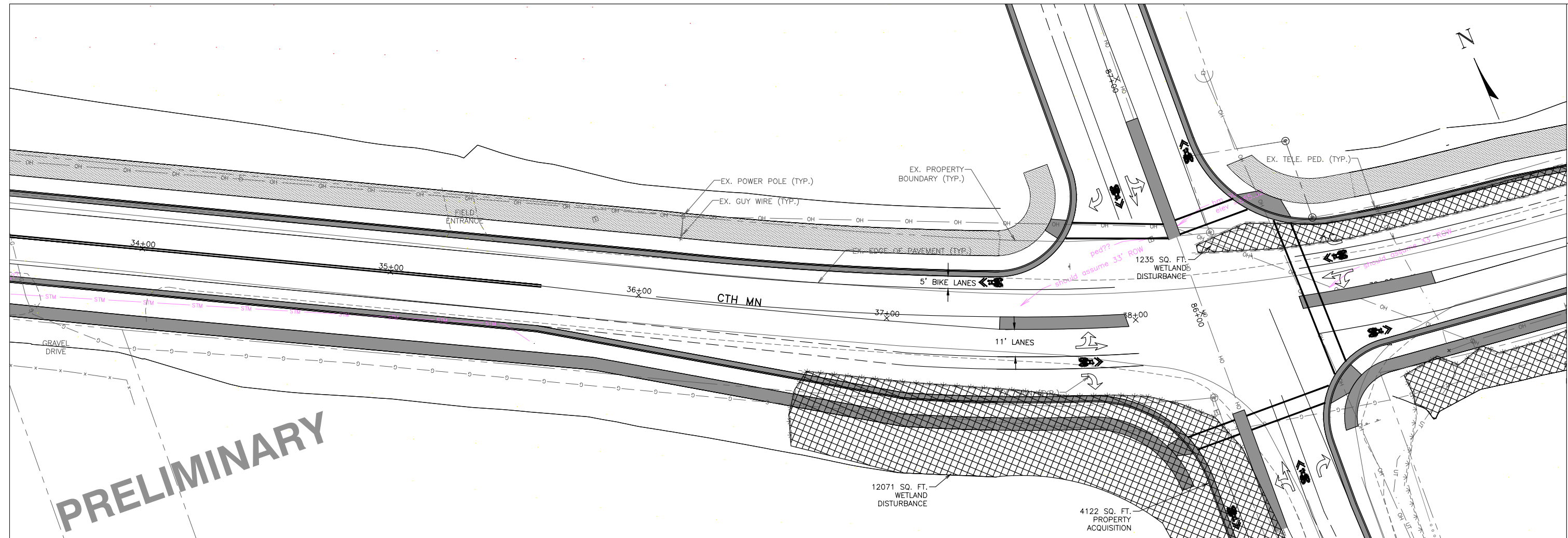
TEMPORARY BENCHMARK TABLE		
TBM	ELEV.	DESCRIPTION
302	886.26	CAP N. SIDE OF CTH MN 29+21



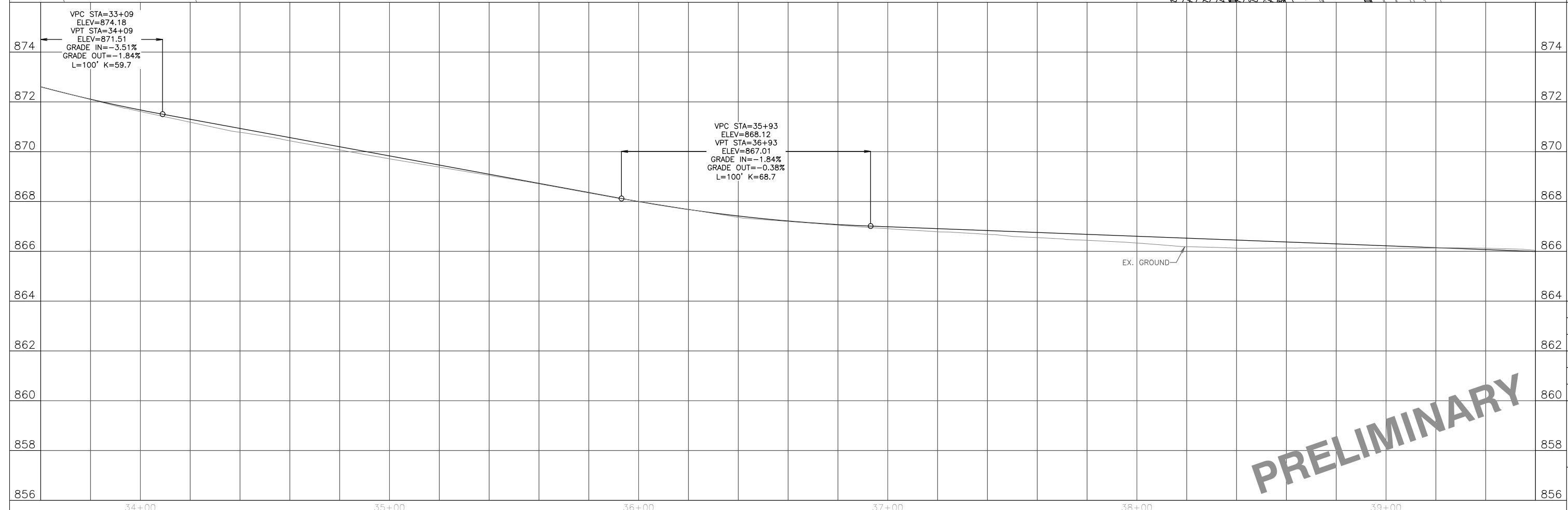
PRELIMINARY



PRELIMINARY



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2912 Marketplace Drive
Suite 103
Madison, WI 53719
(608) 273-3350
www.tcengineers.net

tc TOWN & COUNTRY ENGINEERING, INC.

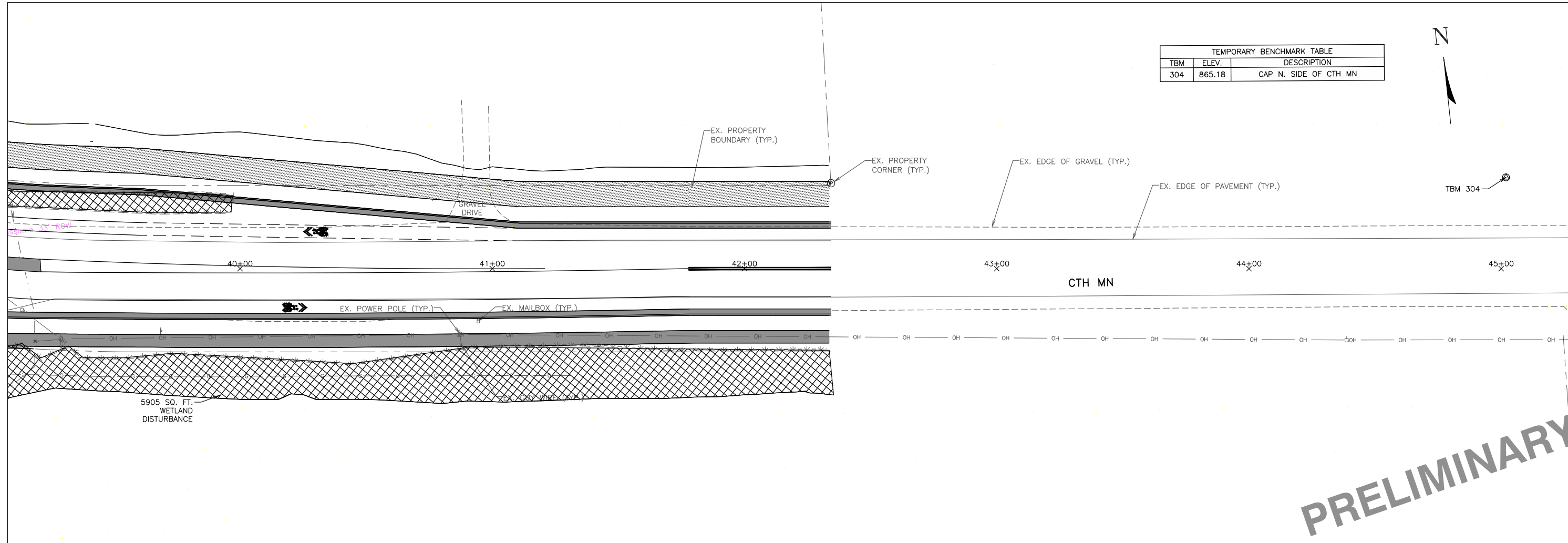
PLAN & PROFILE
CTH MN
Station 38+60 To Station 39+60

2021 STREET AND UTILITY IMPROVEMENTS
CTH MN
Village of McFarland, Wisconsin

PROJECT NO.: MC 174
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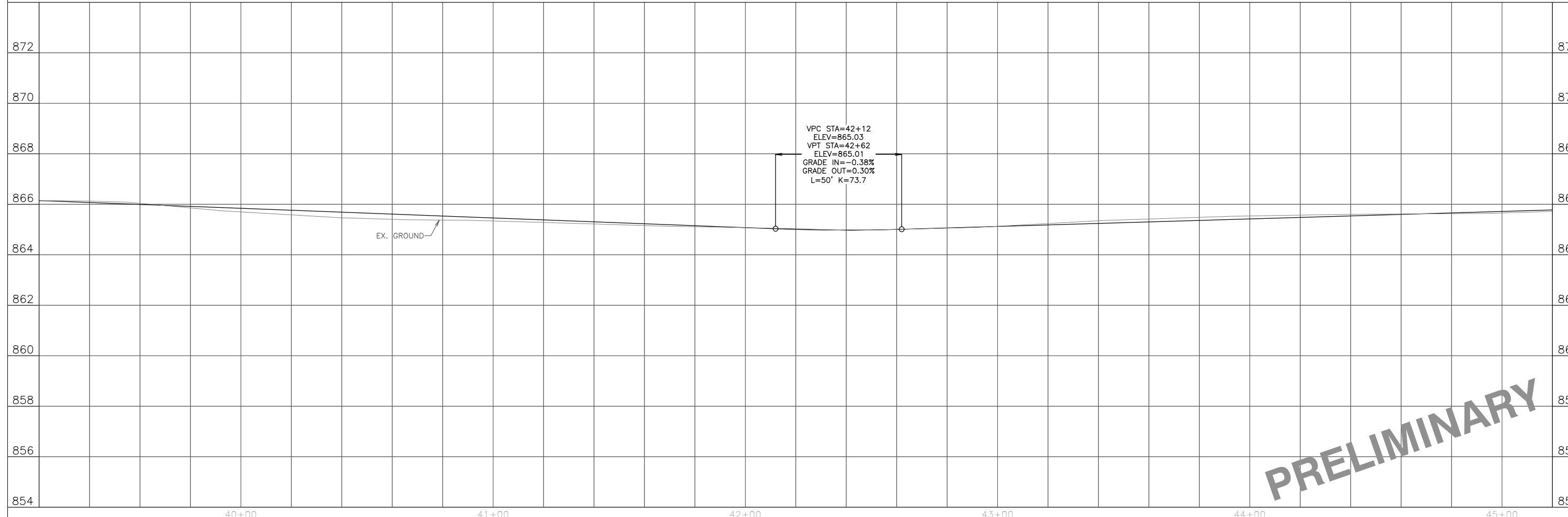
SHEET: B5



TEMPORARY BENCHMARK TABLE		
TBM	ELEV.	DESCRIPTION
304	865.18	CAP N. SIDE OF CTH MN

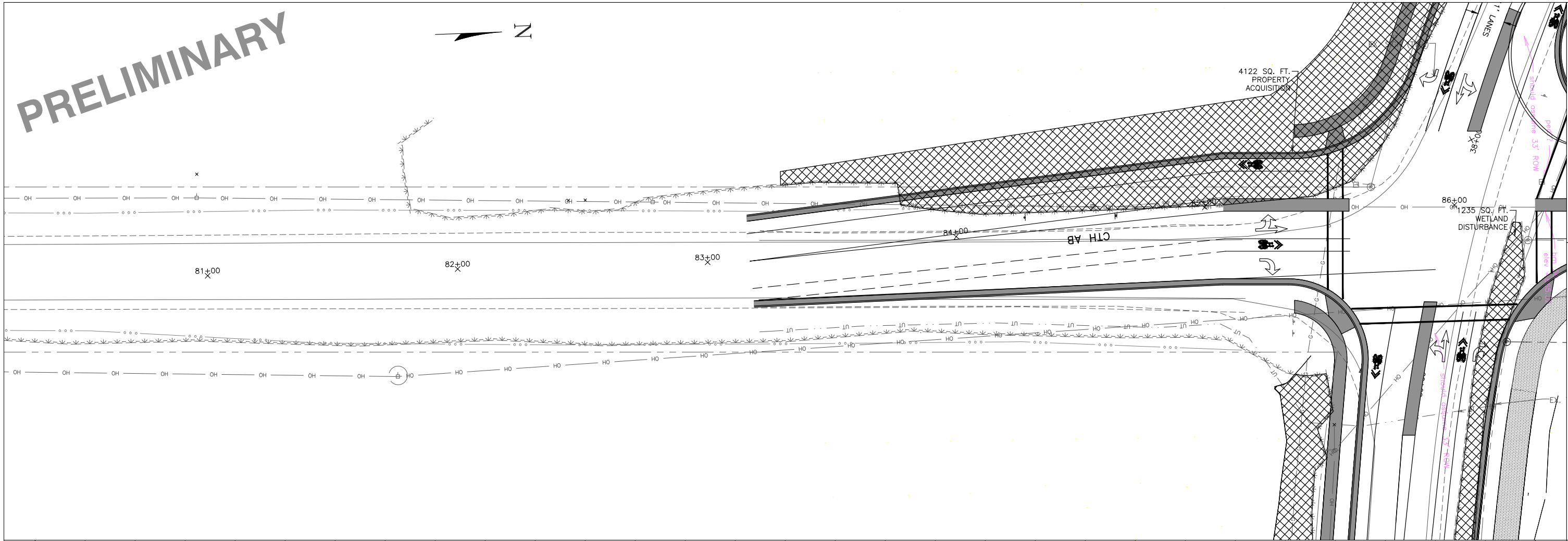


PRELIMINARY



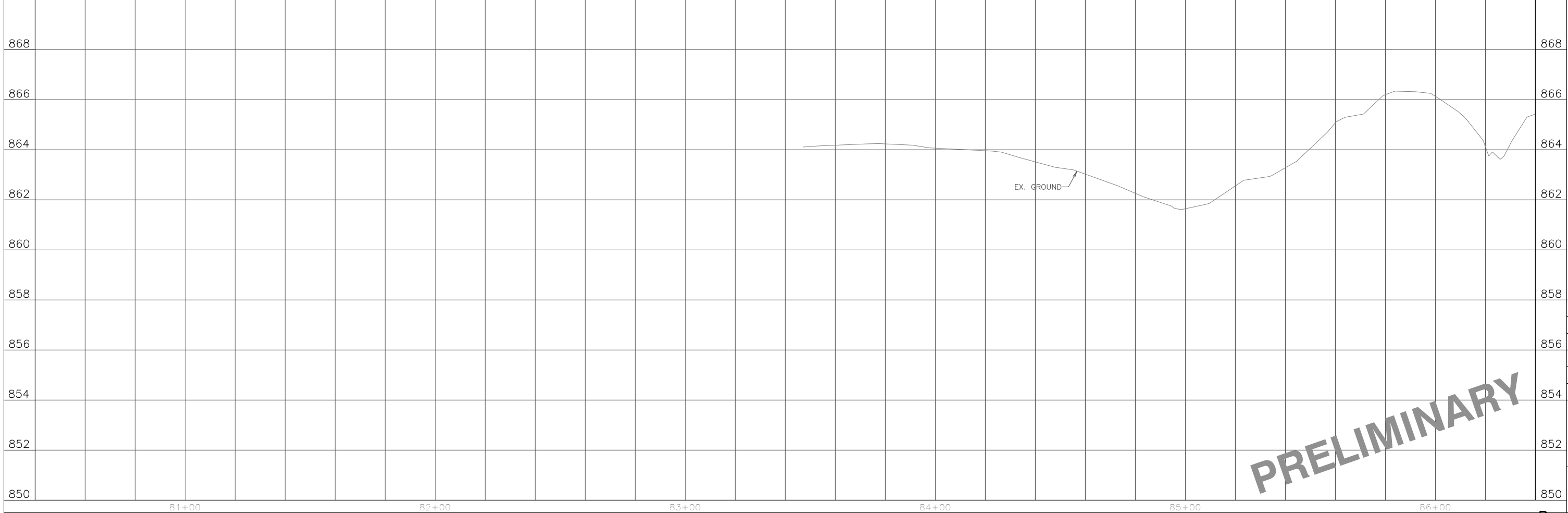
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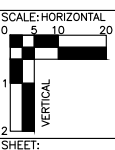
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(608) 273-3350
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PLAN & PROFILE
CTH AB
Station 80+40 To Station 86+40



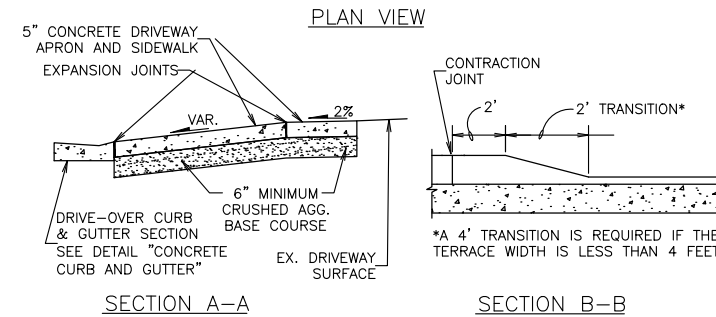
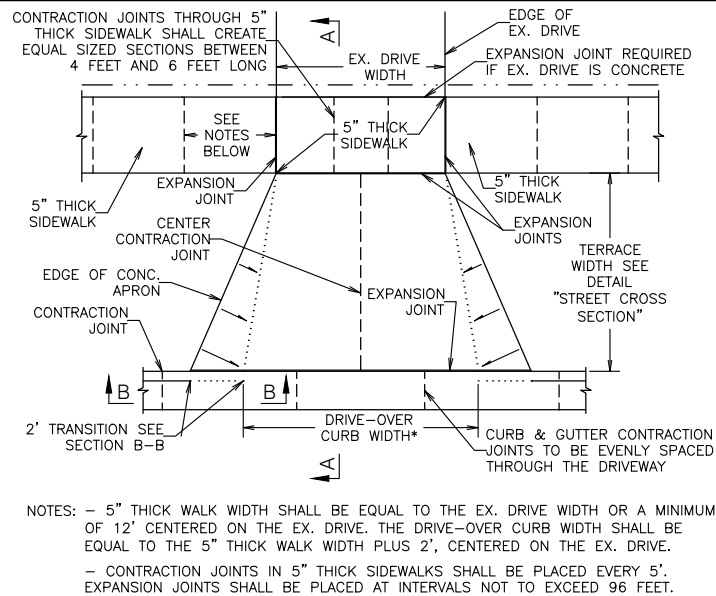
2021 STREET AND UTILITY IMPROVEMENTS
CTH MN
Village of McFarland, Wisconsin

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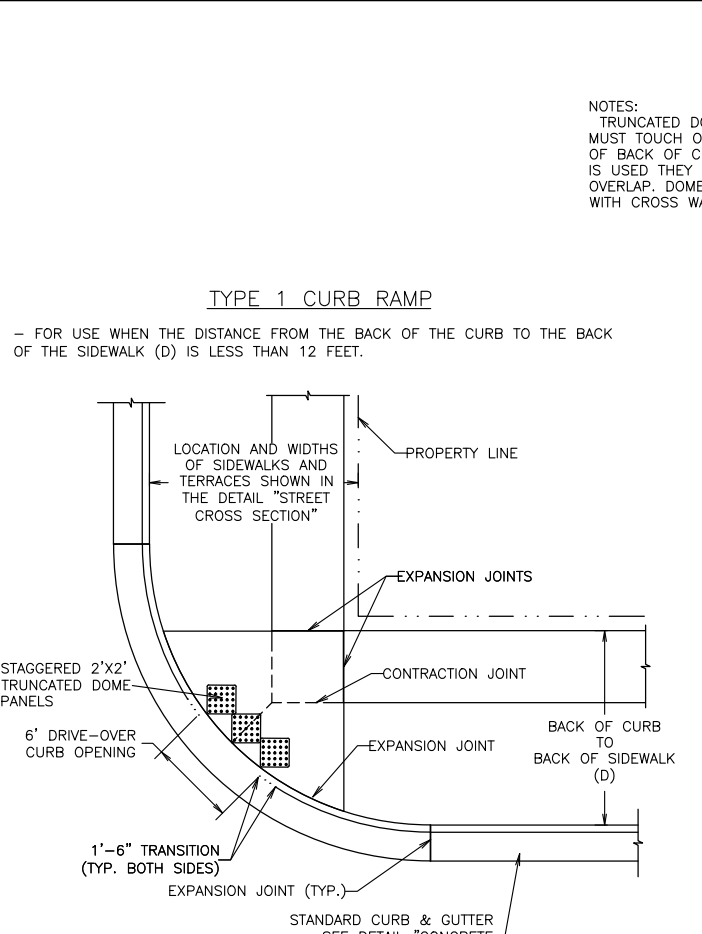


SHEET:
B7

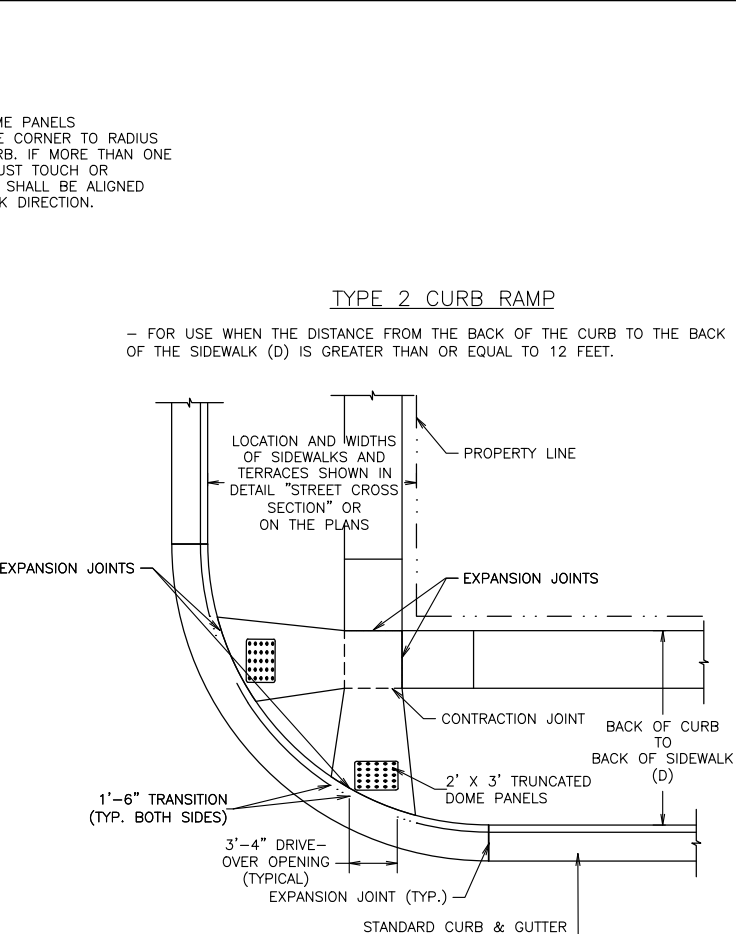
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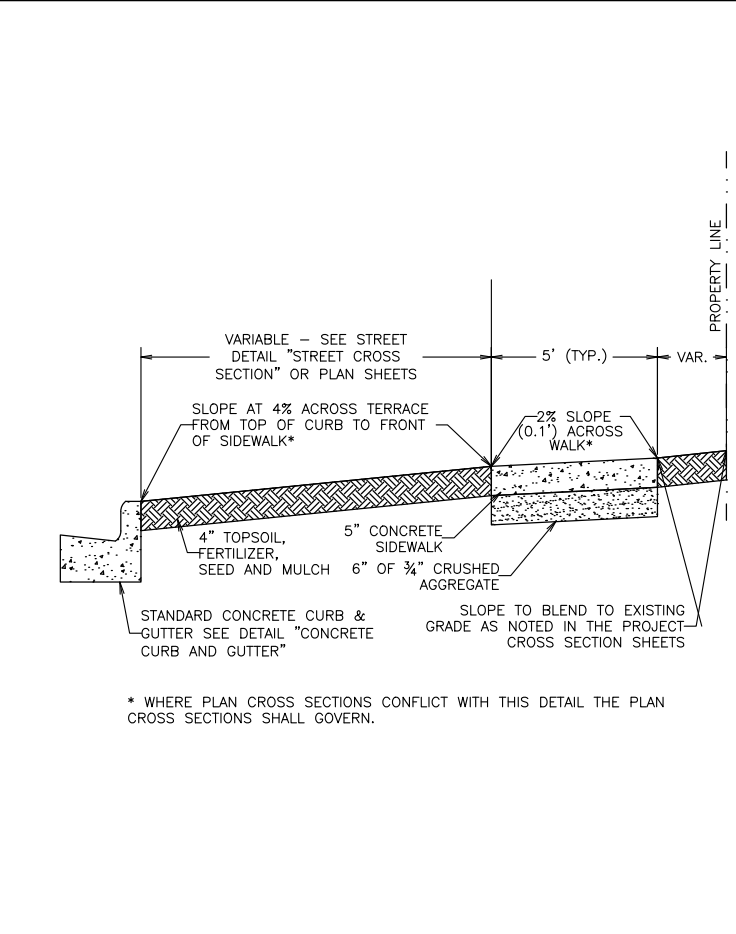
DETAIL DRIVEWAY



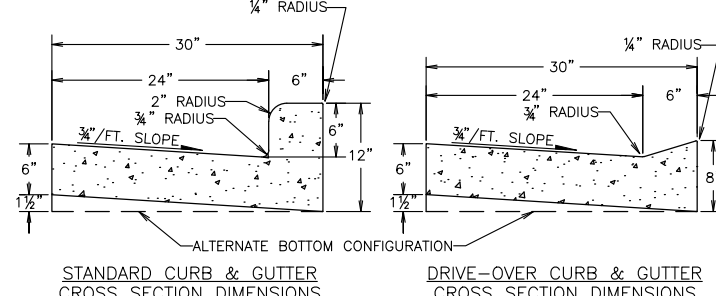
DETAIL CURB RAMP



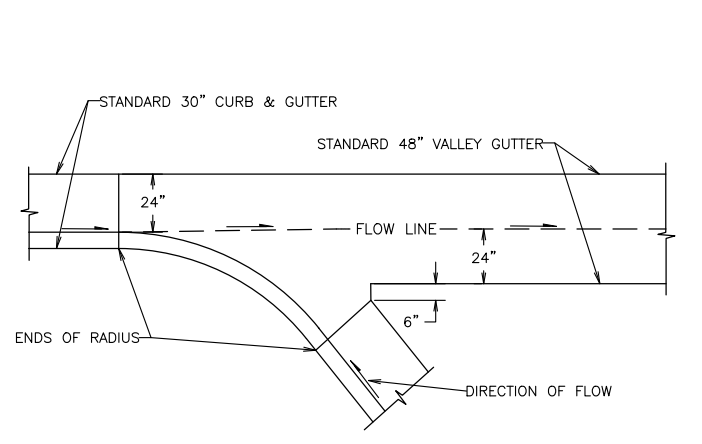
DETAIL CURB RAMP



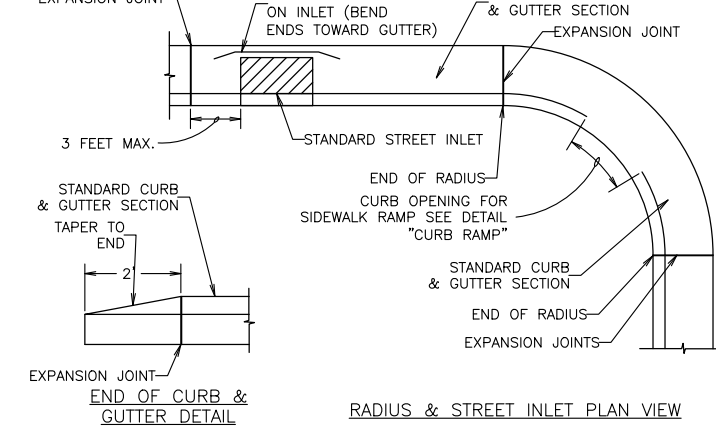
DETAIL SIDEWALK - TERRACE SECTION



STANDARD CURB & GUTTER CROSS SECTION DIMENSIONS

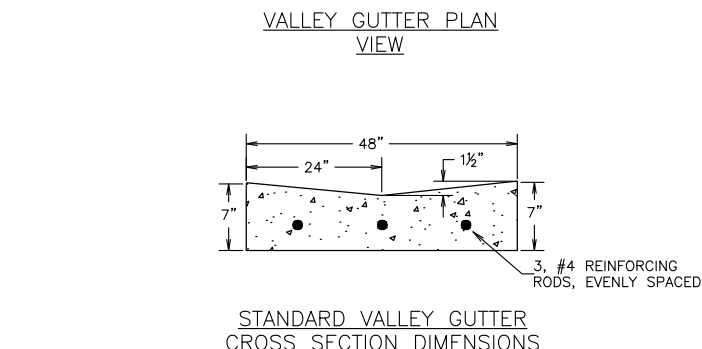


VALLEY GUTTER PLAN VIEW



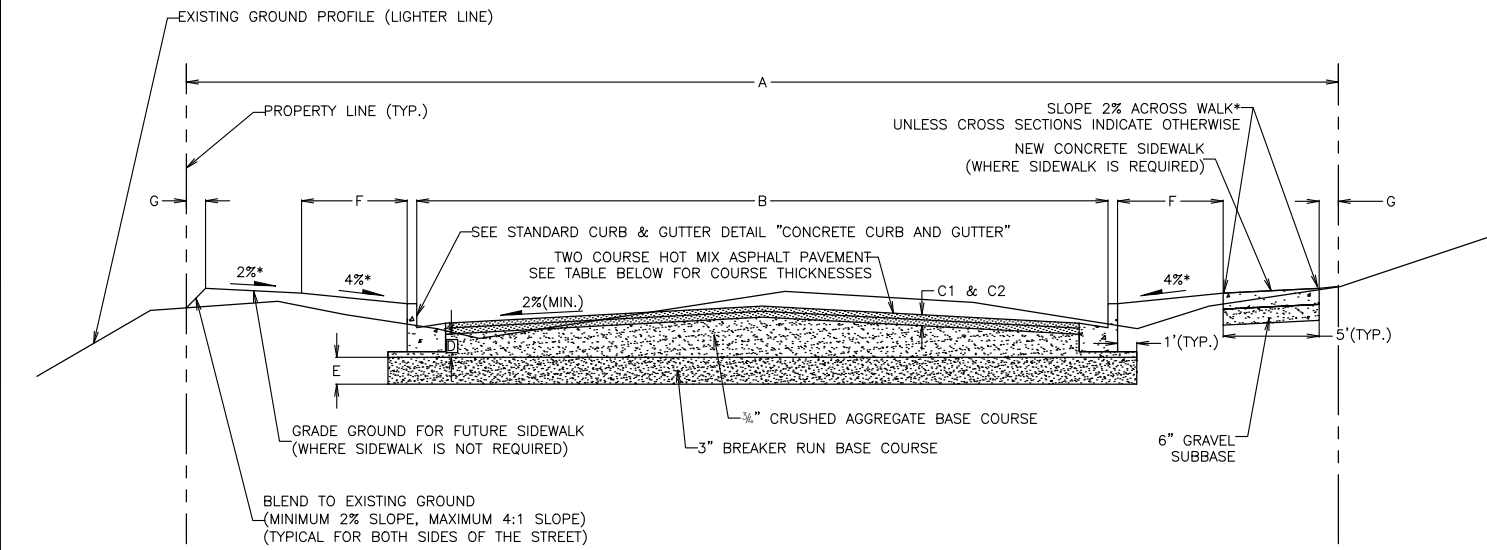
NOTES:
 1.) CONTRACTION JOINTS SHALL BE PLACED EVERY 6 TO 12 FEET AND AT LOCATIONS SHOWN IN THE CURB RAMP AND DRIVEWAY DETAILS.
 2.) EXPANSION JOINTS SHALL BE PLACED AT EVERY END OF RADIUS, 3 FEET ON ONE SIDE OF EACH STREET INLET AND AT INTERVALS NOT TO EXCEED 300 FEET.

DETAIL CONCRETE CURB AND GUTTER



NOTES:
 1.) CONTRACTION JOINTS SHALL BE PLACED EVERY 6 TO 12 FEET AND AT LOCATIONS SHOWN IN THE CURB RAMP AND DRIVEWAY DETAILS.
 2.) EXPANSION JOINTS SHALL BE PLACED AT EVERY END OF RADIUS, 3 FEET ON ONE SIDE OF EACH STREET INLET AND AT INTERVALS NOT TO EXCEED 300 FEET.

DETAIL VALLEY GUTTER



STANDARD STREET DETAIL DIMENSIONS

STREET NAME	A RIGHT OF WAY WIDTH	B CURB FACE TO CURB FACE WIDTH	C1 LOWER COURSE THICKNESS	C2 SURFACE COURSE THICKNESS	D C.A.B.C. THICKNESS*	E 3" BREAKER RUN B.C. THICKNESS	F TERRACE WIDTH	G BACK OF WALK TO PROP. LINE
			1 1/2"	1 1/2"	6"	6" MIN.		1'

NOTES:
 1.) THE CROWN OF THE ROAD SHALL BE CREATED USING THE 3/4" CRUSHED AGGREGATE BASE COURSE. THE THICKNESS, HC, IS THE MINIMUM THICKNESS REQUIRED AS MEASURED AT THE CONCRETE CURB & GUTTER SECTION.
 2.) THE 3" BREAKER RUN BASE COURSE THICKNESS MAY NEED TO BE INCREASED DEPENDING UPON THE BASE CONDITIONS.

DETAIL STREET CROSS SECTION

NOTES:
 TRUNCATED DOME PANELS MUST TOUCH ONE CORNER TO RADIUS OF BACK OF CURB. IF MORE THAN ONE IS USED THEY MUST TOUCH OR OVERLAP. DOMES SHALL BE ALIGNED WITH CROSS WALK DIRECTION.

PRELIMINARY



VILLAGE BOARD SUMMARY SHEET

MEETING DATE: Thursday, August 13, 2020

SECTION: Business

DEPARTMENT: Public Works

CONTACT:

AGENDA ITEM: Discuss and schedule a public input session regarding Hwy MN Phase 4 road project

PREVIOUS ACTION:

ISSUE SUMMARY:

As part of the Hwy MN Phase 4 road project, we would like to involve the public to receive and share information, giving them the opportunity to express their opinions and perspectives for this project. It is our goal that this input session will benefit all involved.

We would like to have this Public Input Meeting on August 31, 2020. The event would be conducted via a Zoom Webinar.

As part of the webinar we will have an introduction, presentation of the project and then finish up with a question and answer session.

After comments on the plan are received the item will come back to the committee for discussion and recommendation to the village board.

FINANCIAL/BUDGET IMPACT:

VILLAGE PLAN REFERENCE:

ORDINANCE REFERENCE:

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

ATTACHMENTS:

None





VILLAGE BOARD SUMMARY SHEET

MEETING DATE: Thursday, August 13, 2020

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Jim Hessling, Public Works Director

AGENDA ITEM: Presentation of the monthly Public Works Director's report

PREVIOUS ACTION:

ISSUE SUMMARY:

FINANCIAL/BUDGET IMPACT:

VILLAGE PLAN REFERENCE:

ORDINANCE REFERENCE:

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

ATTACHMENTS:

1. July 2020 Public Works Directors report

PUBLIC WORKS COMMITTEE

August 11, 2020

PUBLIC UTILITIES COMMITTEE

August 18, 2020

Public Works Directors Report

for

July 2020

The following is information concerning events and activities of the Public Works Department along with the Water and Sewer Utilities for the previous month. This information is provided in brief to provide an overview of the highlights.

PW Complex

Construction activities at the public works building are currently on going. A void under the concrete has been discovered. A soils engineer is looking into a proposed fix.

Watermain Break

The department experienced a couple of watermain breaks on North Autumn Lane.

Mowing of Ditches and Other Open Areas

Mowing of various ditches and open spaces is ongoing throughout the village.

Road Construction Projects

The street project from 2018, Eighmy, Tina and Scott area has had some activity performed recently.

Burma Road, Autumn and North Autumn Lanes are progressing well.

Juniper Ridge Phase 9 (Veridian Homes)

A preconstruction meeting was held on the last phase of this plat. Primary work on this phase will be completed this fall.

Painting

Painting of various cross walks and curb lines has started.

Meetings/Training/Seminars

All meetings were held by electronic means this month.

- Aimee Irwin participated in a PSC water utility industry meeting and the Young Professionals committee meeting for APWA.
- Lee Igl & Jim Hessling participated in:
APWA monthly board meeting
- Lee Igl participated in a webinar on COVID -19