



# STATE TRUNK HIGHWAY CONNECTION APPLICATION

Wisconsin Department of Transportation (WisDOT)

DT1504 1/2023 Wis. Stat. ss. 86.07(2)(a), 84.09, 84.25, 84.295 & Wis. Adm. Code Ch. Trans 231

<ul style="list-style-type: none"><li>Use this form to apply for a new connection to a state trunk highway (STH) or for altering, removing, or allowing an existing connection.</li><li>If the property has any legal restrictions that prohibit access to a STH, WisDOT cannot approve a STH connection for the property.</li><li>One DT1504 form is required per connection. <b>Please type or print neatly in ink.</b> Fill out the required information on <b>all pages</b> of this form per the instructions. For more information, visit: <a href="https://wisconsindot.gov/Pages/doing-bus/real-estate/permits/connections.aspx">https://wisconsindot.gov/Pages/doing-bus/real-estate/permits/connections.aspx</a></li><li>Provide a copy of the property deed, title work related to the property purchase, and any property surveys.</li></ul>				SHOPS Tracking #: <b>22-100333525-2024</b>	
<b>APPLICANT INFORMATION</b>		<b>WisDOT OFFICE INFORMATION</b>		Southwest Region - La Crosse 3550 Mormon Coulee La Crosse, WI 54601	
1. Applicant Name and Mailing Address (Street/PO Box, City, State, ZIP Code) Village of Muscoda 206 N Wisconsin Avenue Muscoda WI, 53573		2. Property Owner Name and Mailing Address (If not applicant)		3. If Not Property Owner, Reason for Request	
<b>CONNECTION LOCATION INFORMATION</b>		4. Highway Number(s) '80'/'133'		5. County Grant	
		6. <input type="checkbox"/> City <input checked="" type="checkbox"/> Village <input type="checkbox"/> Town of: Muscoda		7. Side of the Highway <input checked="" type="checkbox"/> North <input checked="" type="checkbox"/> South <input type="checkbox"/> East <input type="checkbox"/> West	
		8. Located within the: NE Quarter, of the SE Quarter, Section 12, Town 8 North, Range 1W		9. Fire or Street Number (If applicable)	
		10. Name of Nearest Side Road from Location Miller Road		Distance and Direction from the Side Road 690 ft E (Feet or Miles) (N, S, E, W, A)	
11. How far is the location from the nearest non-side road connection (driveway or trail crossing) on the same highway? 220 ft (Feet or Miles)		Latitude and Longitude (Filled in by WisDOT): 43.1827, -90.4316			
<b>CONNECTION TYPE INFORMATION</b>		12. Proposed Activity (Check one) <input type="checkbox"/> Construct New <input type="checkbox"/> Remove Existing <input type="checkbox"/> Allow Existing <input checked="" type="checkbox"/> Alter Existing Choose all applicable items from the lists ➔		13. Proposed Use (Check one – See instructions for category description) <input type="checkbox"/> Urban – Commercial/Industrial <input type="checkbox"/> Rural – Commercial/Industrial <input type="checkbox"/> Urban – Residential <input type="checkbox"/> Rural – Residential <input checked="" type="checkbox"/> Public Road <input type="checkbox"/> Rural – Agricultural <input type="checkbox"/> Trail or Trail Crossing	
		14. Proposed Width: 36'		16. Proposed Trips Per Day (Check one) <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> 51-100 <input type="checkbox"/> 1-25 <input type="checkbox"/> 101-1000 <input type="checkbox"/> 26-50 <input type="checkbox"/> Over 1000 ➔ Peak hour traffic count: _____	
		15. Proposed Surface: Asphalt		SEE PAGE 2 for QUESTIONS 17-27. SEE PAGE 3 FOR INDEMNIFICATION. SEE PAGES 4-6 FOR CONDITIONS AND PROVISIONS.	
x <i>Mark Doyle</i> 7/30/2023 608-348-5355 DoyleM@delta3eng.biz (Property Owner or Authorized Representative) (Date) (Area Code and Telephone #) (Email address)					
The applicant affirms that all information provided on and submitted with this form is correct and complete. Providing incorrect or incomplete information may result in permit denial or revocation as well as criminal prosecution under Wis. Stat. s. <a href="#">946.32</a> .					
↓ Completed by Wisconsin Department of Transportation – REVIEW AFTER PERMIT ISSUANCE ↓					
<input type="checkbox"/> <b>Application DISMISSED</b> ACCESS RIGHTS (1) NOT OWNED BY APPLICANT OR (2) CONTROLLED UNDER WIS. STAT. S. 84.25 or 84.295. <b>NO RIGHT TO APPLY EXISTS.</b>			<b>GENERAL CONDITIONS OF ISSUANCE #1-37 APPLY</b>		
<input type="checkbox"/> <b>Permit DENIED</b> MAY BY APPEALED UNDER WIS. STAT. S. 86.073.			Permit Provisions Also Apply: <input checked="" type="checkbox"/> Supplemental <input type="checkbox"/> Special <i>See Pg 7</i>		
<input checked="" type="checkbox"/> <b>WORK Permit APPROVED</b> ONLY FOR PERFORMING WORK ON STATE TRUNK HIGHWAY (STH) RIGHT-OF-WAY UNDER WIS. STAT. S. 86.07(2)(a). <b>THIS PERMIT IS REVOCABLE.</b>			<input checked="" type="checkbox"/> Lane Closure System notification required <input type="checkbox"/> Insurance or performance bond required <input type="checkbox"/> Permit voids/replaces permit # <input type="checkbox"/> Transportation project plat ID # <input type="checkbox"/> <b>Temporary access.</b> Expiration date below.		
<input type="checkbox"/> <b>DOCUMENTATION of Authorized Access Point</b> APPROVED BY WisDOT UNDER PREVIOUS WIS. STAT. S. 84.25 PROJECT. <b>THIS IS NOT A PERMIT</b> BUT SERVES TO DOCUMENT THE TYPE, USE, TRIPS PER DAY, CONFIGURATION, DRAINAGE, ETC. FOR THE STH CONNECTION.			<input type="checkbox"/> Shared Connection Co-user name(s): Related ID #(s):		
<input type="checkbox"/> <b>CONNECTION Permit APPROVED</b> DOES NOT CREATE A RIGHT OF ACCESS OR ACCESS EASEMENT FOR THE PROPERTY. <b>THIS PERMIT IS REVOCABLE.</b>			Misc. info:		
			Feb 29, 2024 March 11, 2024 Nov 1, 2024 Application Completion Date Approved Work Start Date Approved Work Finish Date		
X <i>Wendy Braun</i> March 11, 2024 (WisDOT Authorized Representative Signature – If Computer-filled, Brush Script Font)			22-100333525-2024 March 11, 2024 Permit Number Issuance Date		
			Work Extension Date Expiration Date		

17. ☒ Yes ☐ No Is the property zoned? Provide documentation from the jurisdictional zoning authority.

18. Explain how the land is currently being used:

Currently, this is being used as a public road to access the business/industrial park within the Village

19. ☐ Yes ☒ No Are you aware of any plan to change the zoning or land use for the property? If yes, explain.

20. ☐ Yes ☒ No Is this connection for property that was part of a land division or assemblage created on or after 2/1/99? If yes, explain.

21. ☐ Yes ☒ No Do you own other property abutting the highway that is next to the property that this connection will serve? If yes, explain.

Connection is currently a public road.

22. ☐ Yes ☒ No Does the property abut or border other public roads? If yes, provide all road names.

Connection is currently a public road.

23. ☐ Yes ☒ No Are there any existing connections to any road serving the property? If yes, how many?

Connection is currently a public road.

24. ☐ Yes ☒ No Are there any restrictions on the number, use, or location of connections to the property? If yes, explain.

Connection is currently a public road.

25. ☐ Yes ☒ No Are there any access easements across the property (recorded or unrecorded)? If yes, explain.

Connection is currently a public road.

➔ **Note:** If you answered "yes" to question (Q) 24 or 25, provide a copy of **all documents** relevant to the restrictions and/or easements

26. Provide the property tax identification number: Connection is currently a public road.

27. List the **proposed** work start and finish dates for construction of the connection.

Start: Upon  
Approval

Finish: 8/01/2024

☐ Not Applicable

FOR ANY NEW OR RELOCATED CONNECTION, APPLICANT SHALL PLACE A FLAG OR MARKER IN THE HIGHWAY DITCH OR FORESLOPE (VISIBLE FROM THE HIGHWAY) AT THE PROPOSED LOCATION.



*(Note: Once a permit is issued, the applicant become the permittee)*

## INDEMNIFICATION

The Permittee shall save and hold the State, its officers, employees, agents, and all private and governmental contractors and subcontractors with the State under Chapter 84 Wisconsin Statutes, harmless from actions of any nature whatsoever (including any by the Permittee himself/herself) which arise out of, or are connected with, or are claimed to arise out of or be connected with any of the following:

1. Any of the work done by the Permittee, or Permittee's contractors or agents (collectively "WORKERS").
2. The construction or maintenance of facilities by the Permittee or WORKERS, pursuant to this permit or any other permit issued by the State for construction of facilities within the highway.
3. As a result of action or inaction by Permittee or WORKERS resulting in damage to another that occurs:
  - a. While the Permittee or WORKERS are performing work, or
  - b. While any of the Permittee's or WORKER's property, equipment, or personnel, are in or about such place or the vicinity thereof, or
  - c. While any property constructed, placed, or operated by or on behalf of Permittee or WORKERS remains on the State's property or right-of-way pursuant to this permit or any other permit issued by the State.

This hold harmless provision applies, without limiting the generality of the foregoing, to all liability, damages, loss, expense, claims, demands and actions on account of personal injury, death or property loss to the State, its officers, employees, agents, contractors, subcontractors or frequenters, to the Permittee or WORKERS, their employees, agents, contractors, subcontractors or frequenters, or to any other persons, whether based upon, or claimed to be based upon, statutory (including, without limiting the generality of the foregoing, worker's compensation), contractual, tort, or whether or not caused or claimed to have been caused by active or inactive negligence or other breach of duty by the State, its officers, employees, agents, contractors, subcontractors or frequenters, Permittee, WORKERS, their employees, agents, contractors, subcontractors or frequenters; or any other person.

Without limiting the generality of the foregoing, the liability, damage, loss, expense, claims, demands and actions indemnified against shall include all liability, damage, loss, expense, claims, demands and actions for damage to any property, caused by Permittee or WORKERS pursuant to this permit or any other permit issued by the State for damage to property, lines or facilities on highway right-of-way resulting in any loss of power, telephone service, communications, data, information, or material; or involving property rights any other person of any kind whatsoever.

The Permittee shall at his/her own expense investigate all such claims and demands, attend to their settlement or other disposition, defend all actions based thereon and pay all charges of attorneys and all other costs and expenses of any kind arising from any such liability, damage, loss, claims, demands and actions.

All facilities constructed within the highway right-of-way by Permittee become the property of the State of Wisconsin, Department of Transportation, and may be altered or removed by the maintaining authority of the highway in accordance with state law.

Any transfer, whether voluntary or involuntary, of ownership or control of any property constructed, placed, or operated by or on behalf of the Permittee or WORKERS that remains on the State's property or right-of-way pursuant to this permit shall not release Permittee from any of the indemnification requirements of this permit. Any acceptance by any other person or entity, whether voluntary or involuntary, of ownership or control of any property constructed, placed, or operated by or on behalf of the Permittee or WORKERS that remains on the State's property or right-of-way pursuant to this permit, shall include acceptance of all indemnification requirements of this permit by the other person or entity receiving ownership or control.

(Note: Once a permit is issued, the applicant becomes the permittee)

## GENERAL CONDITIONS OF ISSUANCE

1. All connections have restrictions that are documented in the preprinted and filled-in information on this form along with any conditions, covenants, supplemental and special provisions, superimposed notes, and detail drawings added by WisDOT. In addition to WisDOT's approval, permittee shall also comply with relevant state statutes and administrative rules, plus any laws, codes, rules, regulations, ordinances, and permit requirements of other jurisdictional agencies. Alteration of this form by the permittee **is prohibited**.
  2. The permit authorizes the work for the applicant ("permittee") indicated on this permit. It does not grant authority for the work of any other, either by present or future installation.
  3. Comply with this permit in its entirety. Failure to comply with any part of this permit is the permittee's responsibility, which includes full restitution of any costs WisDOT incurs to remedy non-compliance acts and may include treble damages under Wis. Stat. s. [86.02](#). Further, if permittee fails to comply with any permit term, and WisDOT seeks to compel compliance by the permittee, enforce a permit term, revoke this permit, or recover costs associated with completing work required under this permit or redoing work not up to standards or specifications, permittee shall also be responsible for paying a sum that reimburses the State for time expended by its attorneys working on the matter and all court costs, and agrees that the venue for any court action related to enforcement of this permit shall be Dane County, Wisconsin.
  4. Immediately cure any violation of this permit, particularly any failure to maintain a safe work site and proper work zone traffic control. Failure to do so may result in WisDOT stopping further work, removing permittee from the highway ROW, revoking the permit or any combination of these actions.
  5. Except in cases where the permitted connection is constructed by forces acting on behalf of WisDOT as part of a highway improvement or maintenance project, the permittee shall do all of the following:
    - (a) Furnish all materials, do all work, and pay all costs for construction and maintenance of the connection and its appurtenances in the right-of-way (ROW). Use the appropriate materials and type and quality of the work for the connection type specified in this permit.
    - (b) Do all work without jeopardy to, or interference with, traffic using the highway
    - (c) Be responsible for all additional work WisDOT deems necessary due to plan error, omission, or unknown or changed field conditions
    - (d) Maintain the connection and its appurtenances within ROW limits, which includes keeping them in a proper state of repair, preventing the blockage or impairment of ROW drainage, and preventing aboveground obstacles to occur that may cause serious injury or death to a motorist
    - (e) Do not disturb or cause the disturbance of any survey marker without the **prior written approval** of WisDOT
  6. The permittee shall not make any changes to the connection, its appurtenances, or highway ROW, including, without limitation, changes to the location (Q4-11), use (Q13), width (Q14), surface (Q15), or increase the number of trips per day (Q16) indicated by this permit without obtaining **prior written approval** from WisDOT. WisDOT will evaluate all potential highway impacts that may arise from any proposed change(s) and therefore, does not guarantee approval.
  7. WisDOT does not assume any responsibility for removal or clearance of snow, ice, or sleet, or the opening of windrows of such material upon any portion of any connection along any state trunk highway even though snow, ice, or sleet is deposited or windrowed on said connection by its authorized representative while performing normal winter maintenance operations. No snow, ice, or sleet removed from the connection shall be deposited on any highway pavement or shoulder or in a manner that creates a safety hazard or obstruction to highway drainage.
  8. Rock, asphalt, concrete, timber, or other embankment retention or marking treatments for the connection **are prohibited**. A wooden, plastic or metal post with or without blue reflector(s) may be installed on each side connection. Wooden posts shall not have a cross-sectional area above the ground line of more than 14 square inches (4" x 4" square or 4" diameter posts are acceptable) or the affected cross-section area shall be reduced by drilling or a saw cut. Drill holes or saw scoring shall be approximately 4" above the ground. Metal or plastic posts shall not be stronger than the equivalent of a 1½" diameter standard metal pipe. The use of red or amber reflectors **are prohibited** under Wis. Stat. s. [346.41\(3\)](#).
  9. **WisDOT reserves the right to revoke any permit issued.** WisDOT also reserves the right to make such changes, additions, repairs, relocations, and removals within statutory limits to the connection or its appurtenances on the ROW as may at any time be considered necessary to facilitate highway relocation, reconstruction, widening, and maintenance, or to provide proper protection to life and property on or adjacent to the highway, or if alternative access to the property becomes available.
  10. **If the permitted work has not been started by the Approved Work Finish Date, this permit is null and void. If the work has been started but not completed by the Approved Work Finish Date, no additional work shall be done unless authorized through an approved Work Extension Date or a subsequent permit from WisDOT.** WisDOT does not guarantee approval of a time extension or subsequent permit since the conditions WisDOT based its permit approval upon may have changed between the permit issuance date and time extension request date. **Accomplishment of any part of the work shall verify agreement by the permittee to conform to this permit and to be bound by all of its requirements, restrictions, and obligations, all of which shall continue to be in full force and effect.**
  11. Any connection-related improvement constructed within the highway becomes part of the highway and is subject to the jurisdiction of the maintaining authority of the highway. Issuance of this permit does not guarantee in the future that the connection will remain in place or be allowed to function in the same manner as when it was installed. WisDOT or any other authority with jurisdiction over the highway may alter the highway in such a manner that changes the connection's function by installing medians, lanes, or traffic control devices, or may require that the connection be closed entirely. WisDOT attempts, in exercising its police powers, to avoid unreasonably restricting property access to a highway. Abutting landowners are generally not entitled to compensation for changes made to the highway by the maintaining authority for police power activities.
  12. The permittee agrees that any connection constructed by or for the permittee is for the purpose of obtaining access to the property listed in Q26. The connection shall not be used for parking or servicing vehicles, or for advertising, storing, or selling goods on the ROW.
- ### WORK ZONES
13. Install warning signs, devices, and processes **prior to the start of any permitted work** within the highway ROW and ensure all are fully functional and maintained to protect the public, workers, and the work site until all permitted work is complete. Comply with the [Wisconsin Manual of Uniform Traffic Control Devices](#) or [Work Zone Field Manual](#), current editions, for appropriate sizes, designs, and configurations of warning signs and devices. Provide and maintain the quantity of signs and devices therein described, and supplement those with additional signs, devices, and flaggers as necessary to functionally protect people and property from injury or damage always and under all conditions, including changed or changing conditions. Wear retro-reflective safety vests while working within the highway ROW.
  14. Secure the work site and associated traffic control zone against any hazard to the public, both when the site is attended and unattended during off-hours, holidays, and nighttime hours. This includes vehicles, equipment, and materials.
  15. Do not keep vehicles, equipment, or materials related to this permit within the highway ROW limits except those items that are actively being used in the work operation.
  16. Perform all permitted work without obstructing or closing any part of any travel lane or fully closing any road unless authorized by WisDOT.
  17. Derive no direct access to install, maintain, or repair the permitted connection from a freeway travel lane, shoulder, or from any interchange ramp unless authorized by WisDOT in this permit. If access is needed due to an emergency, immediately contact the Wisconsin State Patrol and WisDOT Region Office listed on this permit. **Use of freeway median crossovers to make U-turns or obtain highway access is prohibited and subject to law enforcement citation.**
  18. Any disturbance to, operation within, or use of a highway median **is prohibited** unless authorized by WisDOT in this permit.
  19. Coordinate the permitted work and in no case interfere with any ongoing highway improvement project.

(Note: Once a permit is issued, the applicant becomes the permittee)

## CONSTRUCTION

20. **Notify the WisDOT representative listed on this permit 3 days before starting any work and call Diggers' Hotline 811 or (800) 242-8511.**
21. Determine the locations of any existing facilities in the area affected by the permitted work and protect or take actions needed to protect them from any damage. All notifications to facility owners, including but not limited to utilities, are the permittee's responsibility.
22. Always keep a complete copy of the permit (which may be electronic) at the job site when the permitted work is ongoing. Also keep a copy with a project manager or supervisor familiar with the permit and all of its details and requirements.
23. Under Wis. Adm. Code Ch. Trans 401, always implement erosion control best management practices (BMPs) prior to and during work operations. Provide and maintain erosion control BMPs to protect all restored areas upon completion of the permitted work until replacement vegetation achieves sustained growth. Trans 401 designations for [minor](#) or major projects in this permit are the same as utility projects. A project is either minor or major but not both.
24. Construction methods shall meet the requirements of this permit and be performed in accordance with methods and procedures set forth in the current edition of WisDOT's [Standard Specifications for Highway and Structure Construction](#).
25. Install the connection in the specified permit location. Upon discovery of any error in placement or upon WisDOT order, move any part of the connection to the correct location. Any connection part located other than as specified in this permit exists at permittee's sole risk. Accordingly, if the same is undetected or is suffered to remain in variance to the permit, the permittee shall hold the State, its employees, agents, and officers harmless and free of any cost, claim or liability associated with any accidental damage to such facility that may result from a highway construction, maintenance, traffic control, or ROW management project or function.
26. The permittee may be required to excavate part of the ditch bottom or backslope to properly install a culvert endwall. Direct questions about this work to the WisDOT Region office that issued this permit.
27. Do not at any time open any greater length of trench than necessary to maintain essential work progress. Use temporary sheeting, shoring, or trench boxes as needed to prevent cave-ins.
28. Comply with applicable laws, rules, policies, and regulations when acting under this permit especially when within tribal or federal lands. Provide documentation as needed when on WisDOT ROW to prove compliance or coordination with the following agencies:
  - Wisconsin Historical Society to avoid or mitigate any potential cultural resource (archeological, historical, burial site, etc.) impacts per Wis. Stat. s. [44.40](#).
  - Department of Natural Resources to avoid or mitigate any potential stormwater runoff, site erosion, wetland, waterway, and endangered or threatened species impacts.
29. Comply with all applicable regulations and codes, including, but not limited to, the U.S. Department of Labor, Occupational Safety and Health Administration, [29 CFR Part 1926](#) for construction safety precautions and operations.

## AFTER CONSTRUCTION

30. Send electronic notice to the WisDOT representative who approved the permit **within 10 calendar days** of completing the work including all restoration. Notice may also be sent via telephone or regular mail.
31. Cure faults related to work or facilities under this permit that, in WisDOT's opinion, obstruct highway drainage or in any other manner adversely affect highway maintenance or operation, and restore the ROW as directed by and to WisDOT's satisfaction.
32. Alter the permitted connection as may be ordered by WisDOT to facilitate highway improvements, safety, operations, or maintenance. Accept all costs of constructing, maintaining, altering, temporarily moving, or relocating the permitted connection.

## RESTORATION

33. **All restoration work** shall meet qualities, grades, compactions, and conditions of this permit and be performed in accordance with the methods and procedures set forth in the current edition of WisDOT's [Standard Specifications for Highway and Structure Construction](#).
34. Promptly restore to WisDOT's satisfaction and at least pre-existing conditions any highway facility, surface, shoulder, curb, gutter, sign, sidewalk, driveway, gravel base, ballast, ditch, vegetation, drainage appurtenance, guardrail, electric conduit/cable, or property of any type or other ROW element disturbed by any work under this permit.
35. Sawcut all pavement full-depth when open cutting. Restore concrete pavement in conjunction with WisDOT standard detail drawing [13C9](#). Remove and restore concrete pavement to the nearest joint for full lane width or provide a detailed joint plan for review and approval. The minimum patch dimension is 6 feet by the full lane or shoulder width. High early strength concrete may be specified if needed. For concrete pavement repair guidance, see [FDM 14-25-10, Exhibit 10.1](#). The minimum asphalt patch dimension is 6 feet by the distance to the nearest joint or seam. Only use hot mix asphalt.
36. Backfill all excavations permitted within highway pavement or shoulder areas with suitable granular material, placed in lifts or layers 12 inches or less each in depth, and mechanically compact to meet the appropriate density. Do not use water jetting to perform mechanical compaction. Repair to WisDOT's satisfaction any subsequent heaving, settling, or other defects or faults attributable to the permitted work.
37. Adjust manhole covers, shut-off and regulator valves, and like facilities to the level of the immediately adjacent grades.
38. Restore any turfed ROW area disturbed under this permit with fine-graded topsoil having a depth of not less than 4 inches and reseeded to perennial grass or sodded to WisDOT's satisfaction. Water the planted seed or sod until established.
39. Construct smooth and finished slopes at all locations where regraded portions of the highway ROW meet the lands of adjacent property owners. Do not trespass on adjacent property owner's lands.
40. Dispose of any brush, trash, or waste materials resulting from the permitted work off the ROW in accordance with applicable solid waste disposal regulations. Dumping or littering **is prohibited**.
41. WisDOT may notify permittee that restoration must be completed by a specific time if it is not done voluntarily without delay. If the permittee fails to satisfactorily complete the restoration by the specific time, WisDOT may arrange for the restoration to be completed and bill permittee accordingly. If this occurs, the permittee shall pay for all restoration costs, which may be tripled under Wis. Stat. s. [86.02](#).

## SUPPLEMENTAL PERMIT PROVISIONS (#42-62)

**The permittee shall abide by the following checked provisions:**

### STATE HIGHWAY DETOUR

- ☐ 42. Complete a permit application form to detour state highway traffic ([DT1479](#)). This permit shall only be in effect if WisDOT approves the matching DT1479 permit.

### WORK RESTRICTIONS

- ☒ 43. Daily, holiday, or seasonal work restrictions apply to the permitted work as detailed in the special permit provisions. Review these restrictions with the WisDOT Region Office identified in this permit.

### NOTIFICATIONS

- ☐ 44. Contact the WisDOT Region office identified on this permit to arrange for a WisDOT representative to inspect the work site. Perform no work under this permit prior to his/her arrival.
- ☒ 45. Contact the WisDOT Region office identified on this permit prior to completing the permitted work to arrange for an inspection by a WisDOT representative before the permittee's contractor or work crew leaves the site.
- ☐ 46. Call WisDOT's Traffic Management Center (TMC) / - on a weekly basis or as otherwise determined by the TMC before working on any freeway. The TMC may place restrictions on work times and lane/shoulder closures based upon various special events, oversize freight movements, or daily peak travel times.

(Note: Once a permit is issued, the applicant become the permittee)

**TREE & VEGETATION MANAGEMENT**

- ☐ 47. Plant trees or vegetation only in the locations and with the species as detailed on the plans included and approved with this permit, or as WisDOT specifies in the field.
- ☐ 48. Replace trees or vegetation removed with the species and in the manner required in any special provisions of this permit.
- ☐ 49. Maintain all plantings according to the attached special permit provisions.
- ☐ 50. Do not place any sign or marker identifying the plantings within the highway ROW.
- ☐ 51. WisDOT accepts no responsibility for loss occurring to plantings. Be fully aware that plantings are subject to:
- Thinning or mortality
  - Normal hazards from maintenance operations, snow control, and public utility installation, maintenance, or alteration
  - Trimming or removal when the plantings cause sight distance restrictions or hazardous snow/ice conditions on the highway
  - Destruction when highway reconstruction is done
  - Partial or complete abandonment or obliteration, or return to private ownership, if future highway relocations are made
  - Removal by government authorities, including WisDOT, under Wis. Stat. s. [86.03\(3\)\(a\)](#)
- ☐ 52. Do not cut, trim, or damage trees or vegetation to facilitate the permitted connection's construction or maintenance except as authorized by the owner of such tree or vegetation. (Wis. Stat. s. [86.03](#)) Cleanly cut the exposed ends of any tree roots discovered during excavation with suitable pruning tools immediately after exposure. Comply with all applicable laws, regulations, and local ordinances (even those stricter than WisDOT specifications) that govern the sale, transport, cutting, or pruning of trees and with [ANSI A300](#), which is the generally accepted industry standard for tree care practices.
- ☐ 53. Trim only the trees or vegetation necessary to provide safe clearances or by special provisions. Do not damage non-target trees or vegetation. Do not clear-cut trees or vegetation.
- ☐ 54. Survey the trees or vegetation to be removed and inspect jointly with a WisDOT representative prior to starting any work on the highway ROW.
- ☐ 55. Do not cut or trim oak trees between April 15 and October 15 to prevent Oak Wilt Disease from spreading unless a thick coat of asphalt base tree paint is applied immediately after **any** cut, trimming wound, or abrasion made between those dates.
- ☐ 56. Remove each stump in the area where cutting is permitted, including stumps created by windfalls or prior cutting, by cutting the stump flush with ground level or removing it with a stump grinding operation. The permittee shall be responsible for any damages to mowing equipment or any vehicle caused by any stump not being cut in accordance with this requirement.
- ☐ 57. Treat all deciduous tree stumps with an herbicide approved for use to prevent future sprouting. Do not treat evergreen tree stumps.
- ☐ 58. Dispose of all trees, logs, branches, stumps, and other vegetation resulting from cutting and trimming operations off the ROW in the following manner(s). If more than one box is checked, consult the special permit provisions for additional instructions.
- ☐ Cut trees, logs, or trimmed branches may be chipped and used for mulch on the ROW in a layer not exceeding 3 inches and in a way that does not interfere with highway drainage
  - ☐ Permittee may haul materials to a specified location upon receiving the landowner's permission
  - ☐ Permittee may keep the materials
  - ☐ Other adjacent landowners may keep the materials
  - ☐ Haul only the materials that have salvage value to the nearest county highway department or other designated site for public sale or distribution by WisDOT
- ☐ 59. Promptly restore all natural highway safety features, including but not limited to, living snow fence and headlamp screens.

**URBAN CONNECTIONS**

- ☐ 60. Completely remove existing curb and gutter for construction of the connection. Such removal shall be to the nearest construction joint and saw cut to a minimum length of three feet for remnant curb. Join all new concrete to existing concrete with No. 4 tie bars.
- ☐ 61. Construct the new concrete curb and gutter such that its gutter pan bottom matches the gutter pan bottom of the existing curb and gutter to allow for the drilling of tie bars into the existing concrete pavement and to allow for an asphaltic overlay if the adjacent curb has been previously overlaid with asphalt.
- ☐ 62. Saw cut the existing asphaltic pavement at a sufficient distance to allow for concrete curb and gutter removal and prevent damage of the remaining asphaltic pavement. After sufficient cure time of the new concrete curb and gutter and driveway apron, overlay the curb flange with asphaltic pavement to match existing.

**SPECIAL PERMIT PROVISIONS (#63-A)***The permittee shall also abide by the following provisions:*



## SUPPLEMENTAL PROVISIONS (68-A)

### STH 80/133 Industrial Park, Village of Muscoda, Grant Co.

Pursuant to Wisconsin Statutes and once approved by WisDOT, this permit allows performance of the specific work described over which WisDOT has permit authority. ***The permittee shall abide by these general provisions, and any supplemental and/or special provisions.*** (ROW = right-of-way)

- Please contact Jay Adams (WisDOT) 608.785.9027 10 days prior to work within the Right of Way.
- Provide a schedule prior to work on ROW.
- Provide the WDNR and/or Municipal/County Construction Permit. (complete 2-29-2024)
- Follow Plans submitted Jan. 17, 2024 and Feb. 29, 2024.
- **WORK RESTRICTIONS:** Daily, holiday and/or seasonal work restrictions apply to the permitted work as detailed:
  - From noon Friday May 24, 2024 to 6:00 AM Tuesday May 28, 2024 for Memorial Day;
  - From noon Wednesday, July 3, 2024 to 6:00 AM Monday, July 8, 2024, for Independence Day;
  - From noon Friday, August 30, 2024 to 6:00 AM Tuesday, September 3, 2024 for Labor Day;
  - From noon Wednesday, November 27, 2024 to 6:00 AM Monday, December 2, 2024 for Thanksgiving.
- **Traffic Management:**
  - Signage should follow Wisconsin Manual on Uniform Traffic Control Devices.
  - If closing a lane or shoulder, Provide the following advance notification to the engineer for incorporation into the Wisconsin Lane Closure System (LCS). ( <https://transportal.cee.wisc.edu/closures/> )
  - Any highway open to traffic that has an aggregate surface must be repaved with HMA within 72 hours or by the end of the week whichever occurs first.
  - Flaggers, if used, must be certified.
  - Do not store equipment or materials within 10' of traffic.
  - Any drop-off greater than 2" needs to be protected by a 3:1 slope or temporary concrete barrier is required. Follow WisDOT Standard Specification 104.6.1.2.3 and other related specifications.

#### Wisconsin Lane Closure System Advance Notification:

**TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION**

Closure type with height, weight, or width restrictions (available width, all lanes in one direction < 16')	MINIMUM NOTIFICATION
Lane and shoulder closures	7 calendar days
Full roadway closures	7 calendar days
Detours	7 calendar days
Closure type without height, weight, or width restrictions (available width, all lanes in one direction ≥ 16')	MINIMUM NOTIFICATION
Lane and shoulder closures	3 business days
Modifying all closure types	3 business days

- **Utilities:** Avoid or move utilities that may be in the way of the work in right of way.
- **Erosion Control (EC):**
  - Do not store any materials within the State ROW.
  - Implement EC best management practices (BMPs) prior to and at all times during work operations. Provide and maintain erosion control BMPs to protect all restored areas upon completion of the permitted work until the replacement vegetation achieves sustained growth.
  - Any sediment deposited from the site onto WisDOT facilities needs to be removed and the area stabilized within 24 hours of the release.
  - Any sediment or materials tracked onto state right of way needs to be cleaned within that workday.
  - The applicant will assure that the ditches/storm sewer (down-stream) are cleaned and positively flow, prior to finalizing the construction.
  - Temporary EC best management practices need to be removed and the area restored.
  - After temporary use is complete, the area will be restored to pre-construction conditions in accordance with applicable parts of [WisDOT's Standard Specifications for Highway and Structure Construction](#), current edition.
- **The final restoration work needs review prior to acceptance.**



# CERTIFICATE OF PERMIT COVERAGE

## UNDER THE WPDES CONSTRUCTION SITE STORM WATER RUNOFF PERMIT Permit No. WI-S067831-06

Under s. NR 216.455(2), Wis. Adm. Code, landowners of construction sites with storm water discharges regulated by the Wisconsin Department of Natural Resources (WDNR) Storm Water Permit Program are required to post this certificate in a conspicuous place at the construction site. This certifies that the site has been granted WDNR storm water permit coverage. The landowner must implement and maintain erosion control practices to limit sediment-contaminated runoff to waters of the state in accordance with the permit.

## EROSION CONTROL COMPLAINTS should be reported to the WDNR Tip Line at **1-800-TIP-WDNR (1-800-847-9367)**

Please provide the following information to the Tip Line:

WDNR Site No. (FIN): 91846

Site Name: Muscoda Business Park Expansion

Address/Location: E Nebraska Ave, S Howard Ave, Old County P Village of MUSCODA

Additional Information:

Landowner: Village of Muscoda Site

Landowner's Contact Person: Cinda Johnson

Contact Telephone Number: (608) 739-3182

Permit Start Date: February 13, 2024

By: \_\_\_\_\_

*E. D. Bekt*



FOR QUESTIONS  
REGARDING THIS PROJECT,  
PLEASE CONTACT:

**MARK DIGMAN, P.E.**  
ELTA 3 ENGINEERING, INC.  
TELEPHONE: (608) 348-5355

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**UTILITIES NOTE:**  
THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLAN HAVE BEEN OBTAINED BY FIELD CHECKS. A UTILITY LOCATE THROUGH DIGGERS HOTLINE, AND SEARCHES OF AVAILABLE RECORDS, IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE SURVEYOR DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR SHOULD VERIFY LOCATIONS W/ THE UTILITY COMPANIES AND THE "VILLAGE OF MUSCOGA" PRIOR TO STARTING ANY EXCAVATION.

**OWNER: VILLAGE OF MUSCODA**

**SHEET TITLE:**

G000  
G001  
C101 - C102  
C103  
C104  
C105 - C106  
C107 - C113  
C114 - C115  
C116 - C118  
C201  
C202 - C203  
C204  
C205 - C206  
C207 - C208  
C209  
C210  
C211  
C212  
C213 - C214  
C301 - C302  
C303 - C307

**TITLE SHEET & PROJECT LOCATION MAP**  
**LEGEND & GENERAL NOTES**  
**PLAN VIEW - MASS GRADING**  
**PLAN VIEW - STORMWATER FACILITY**  
**PROFILE & DETAILS - STORMWATER FACILITY**  
**PLAN & PROFILE - INDUSTRIAL DRIVE**  
**PLAN & PROFILE - HOWARD STREET**  
**PLAN & PROFILE - OLD COUNTY TRUNK HIGHWAY 'P'**  
**PLAN VIEW - INTERSECTION GRADING**  
**DETAILS - TRAFFIC CONTROL, MAP, & NOTES**  
**DETAILS - EROSION CONTROL & NOTES**  
**DETAILS - SANITARY SEWER SYSTEM**  
**DETAILS - WATER SYSTEM**  
**DETAILS - STORM SYSTEM**  
**DETAILS - STREET**  
**DETAILS - STRUCTURE TABLES**  
**DETAILS - LIFT STATION**  
**DETAILS - S.T.H. '80'/133' TYPICAL CROSS-SECTIONS**  
**DETAILS - PAVEMENT MARKINGS**  
**CROSS-SECTIONS - INDUSTRIAL DRIVE**  
**CROSS-SECTIONS - HOWARD STREET**

*SEPT. 25, 2023*



**PROJECT LOCATION MAP**  
SCALE: N.T.S.

**PROJECT INFORMATION:**

**OWNER:**  
**VILLAGE OF MUSCODA**  
MS. CINDA JOHNSON  
ADMINISTRATOR / CLERK  
206 N. WISCONSIN AVE.  
MUSCODA, WI 53573  
(608) 739-3182

**STREET AND STORM SEWER:**  
**VILLAGE OF MUSCODA**  
 MR. TROY WARDELL  
 DIRECTOR OF PUBLIC WORKS  
 206 N. WISCONSIN AVE.  
 MUSCODA, WI 53573  
 (608) 739-3390

**SANITARY SEWER AND WATER UTILITIES:**  
**VILLAGE OF MUSCODA**  
**MR. TROY WARDELL**  
**DIRECTOR OF PUBLIC WORKS**  
**208 N. WISCONSIN AVE**  
**MUSCODA, WI 53573**  
**(608) 739-3390**

**ELECTRIC UTILITY:**  
**VILLAGE OF MUSCODA**  
MR. TROY WARDELL  
DIRECTOR OF PUBLIC WORKS  
206 N. WISCONSIN AVE.  
MUSCODA, WI 53573  
(608) 739-3390

**CABLE TELEVISION UTILITY:**  
**MEDIACOM**  
MR. DAVE McMANUS  
115 S. MARQUETTE RD.  
P.O. BOX 58  
PRAIRIE DU CHIEN, WI 53821  
(608) 326-7180

**NATURAL GAS UTILITY:**

<b>WE ENERGIES</b> MR. ADAM MARING N3025 14TH AVE. MONROE, WI 53566 (902) 242-6862 (OFFICE) (608) 426-1715 (CELL)	<b>WE ENERGIES</b> PAVING COORDINATOR 500 S. 116TH STREET WEST ALLIS, WI 53214 (800) 242-9137
--	---

**TELEPHONE UTILITY:**  
**CENTURYLINK**  
MR. STEVE BISHOP  
130 4TH ST.  
BARABOO, WI 53913  
(608) 355-7501



9/25/2023

[illegible]

FOR BID

PROJECT NUMBER	D20-121
SHEET SCALE	NOT TO SCALE
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	TITLE SHEET & PROJECT LOCATION MAP

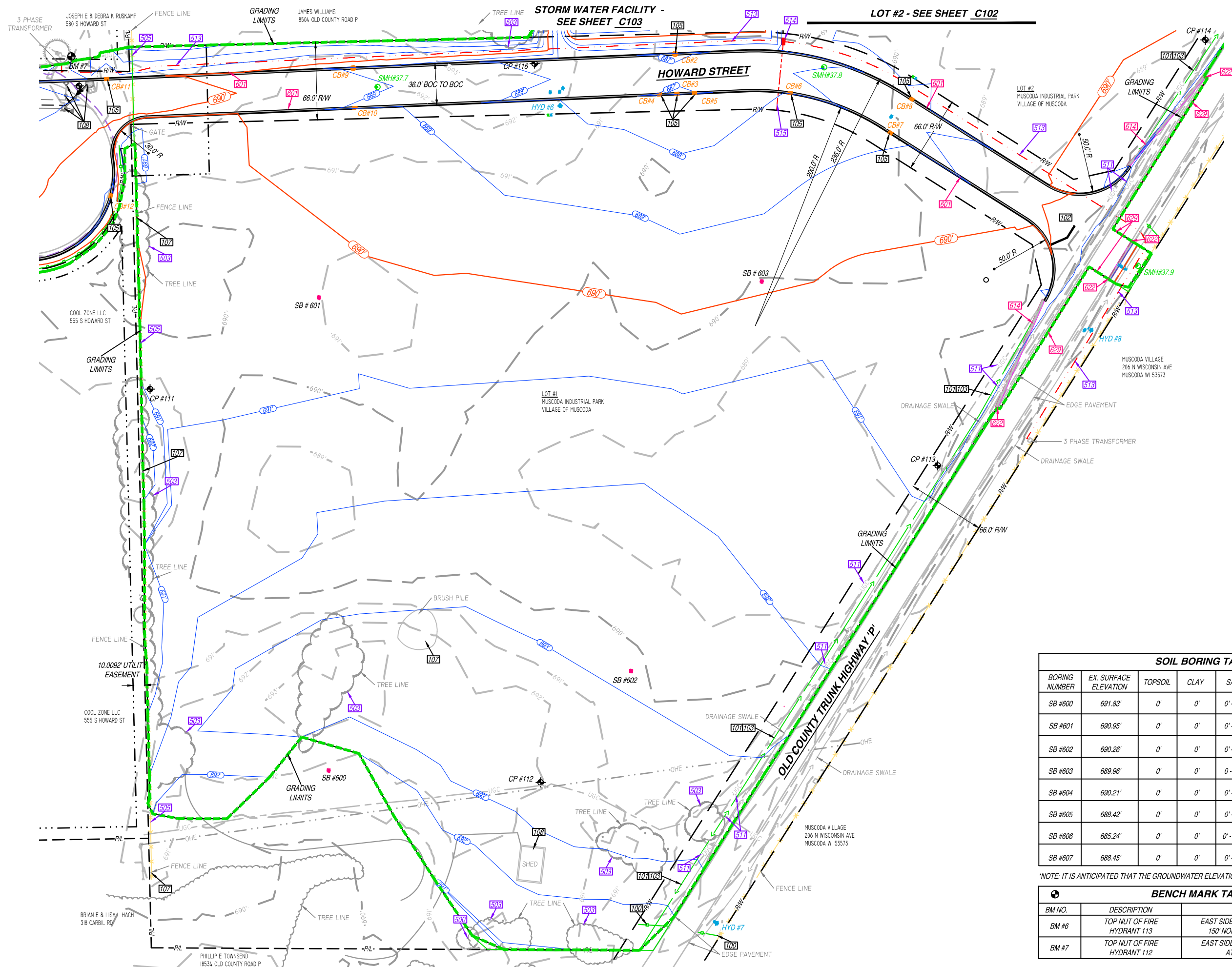
**SHEET TITLE:**

**G000**









**ENGINEER:**

 **DELTA 3**  
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PHONE: (608) 348-5355

888 JACKSON STREET  
DUBUQUE, IOWA 52001

PHONE: (563) 542-9005

FOR QUESTIONS  
REGARDING THIS PROJECT,  
PLEASE CONTACT:

**MARK DIGMAN, P.E.**  
DELTA 3 ENGINEERING, INC.  
TELEPHONE: (608) 348-5355

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**MUSCODA BUSINESS PARK EXPANSION**  
**EDA AWARD NUMBER: 06-79-06393**

**PROJECT LOCATION:** INDUSTRIAL DR, HOWARD ST., OLD COUNTRY 'P'  
**OWNER:** VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573

[illegible]

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	SEE BAR SCALE
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	PLAN VIEW - MASS GRADING

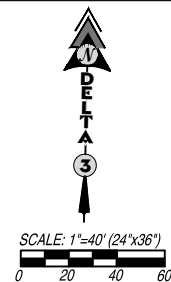
**SHEET TITLE:**

***C101***

**SHEET**  
**NUMBER # 03 of 41**







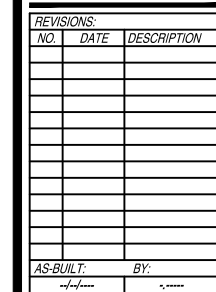
**FOR QUESTIONS  
REGARDING THIS PROJECT,  
PLEASE CONTACT:**

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DELTA 3 ENGINEERING, INC.  
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PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573



FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	SEE BAR SCALE
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	PLAN VIEW - STORM WATER FACILITY

**SHEET TITLE:**

**C104**

**SHEET  
NUMBER # 06 of 41**





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ELTA 3 ENGINEERING, INC.  
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**MUSCODA BUSINESS PARK EXPANSION**  
**EDA AWARD NUMBER: 06-79-06393**

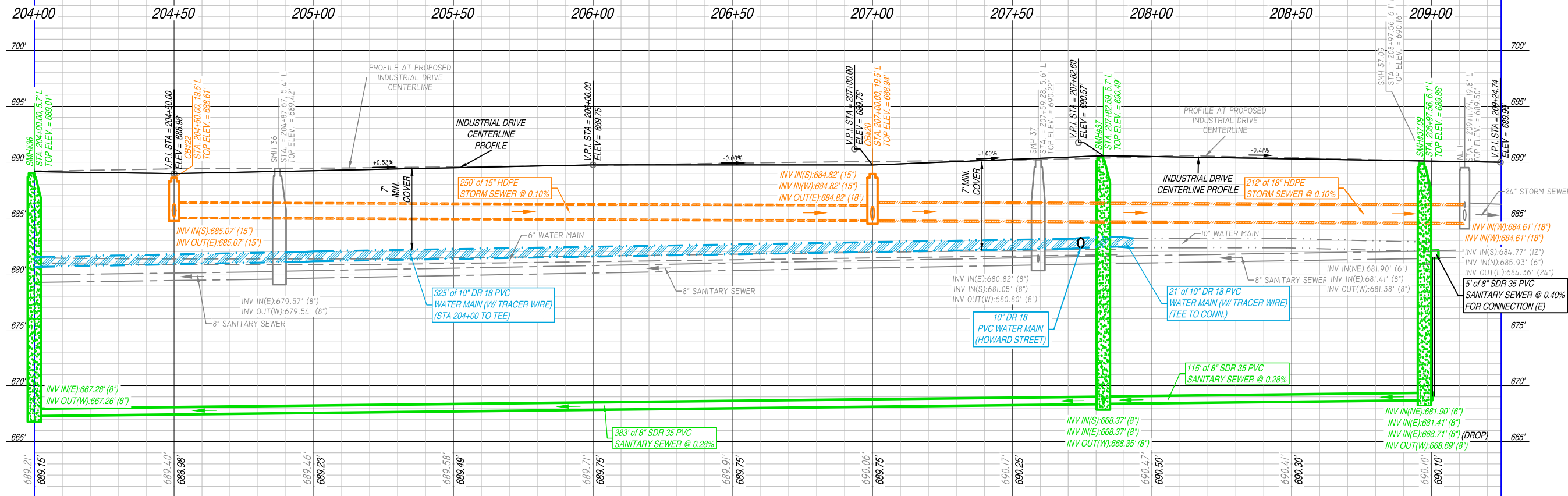
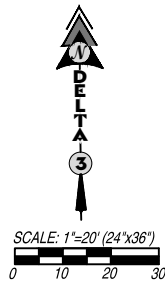
OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	SEE BAR SCALE
DRAWN BY	CHAD COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	PLAN & PROFILE - INDUSTRIAL DRIVE

**SHEET TITLE:**

**C106**

**SHEET**  
**NUMBER # 08 of 41**

















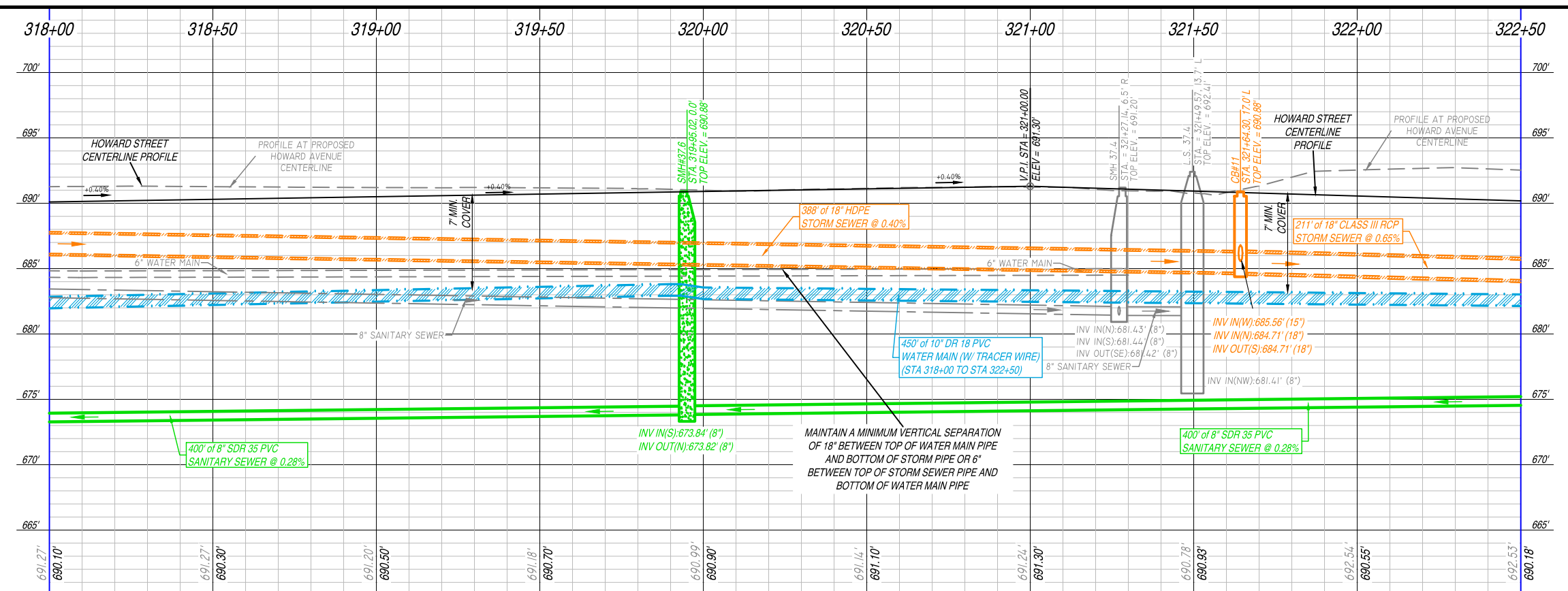
**MARK DIGMAN, P.E.**  
TA 3 ENGINEERING, INC.  
PHONE: (608) 348-5355

---

**OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573**

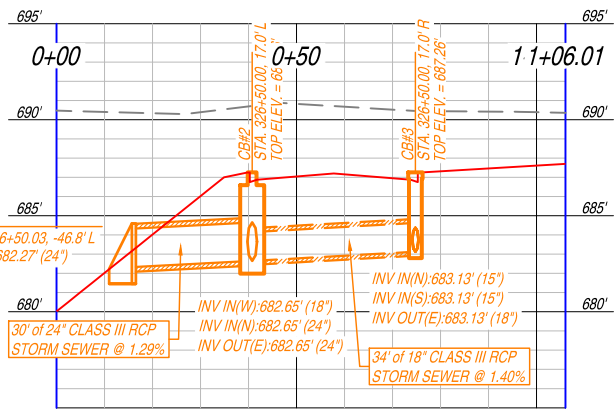
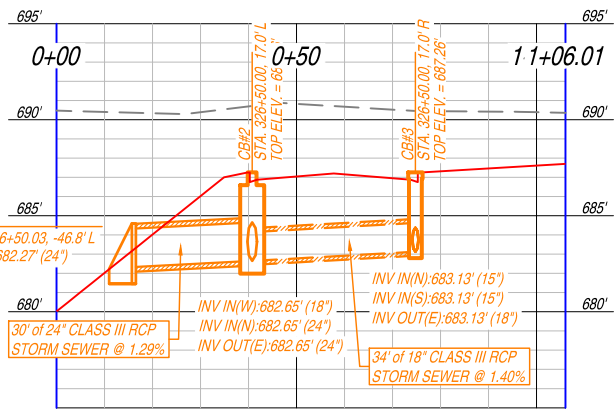
Profile view of a storm sewer installation. The diagram shows a 15' Class III RCP storm sewer with a 0.10% slope. Key data points include:

- Curb #11:** STA 321+64.30, 17.0' L, TOP ELEV = 690.88'
- Curb #12:** STA 321+63.38, 82.8' R, TOP ELEV = 689.29'
- Invert Elevations:**
  - INV IN(W): 685.56' (15')
  - INV IN(N): 684.71' (18')
  - INV OUT(S): 684.71' (18')
  - INV IN(N): 685.66' (15')
  - INV OUT(E): 685.66' (15')
- Pipe Label:** 100' of 15' CLASS III RCP STORM SEWER @ 0.10%
- Elevations:** 695', 690', 685', 680'
- Horizontal Distances:** 691.24', 691.08'



FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	SEE BAR SCALE
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	PLAN & PROFILE - HOWARD STREET

**C111**



**FOR QUESTIONS  
REGARDING THIS PROJECT,  
PLEASE CONTACT:**

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**TELEPHONE: (608) 348-5355**

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**MUSCODA BUSINESS PARK EXPANSION**  
**EDA AWARD NUMBER: 06-79-06393**

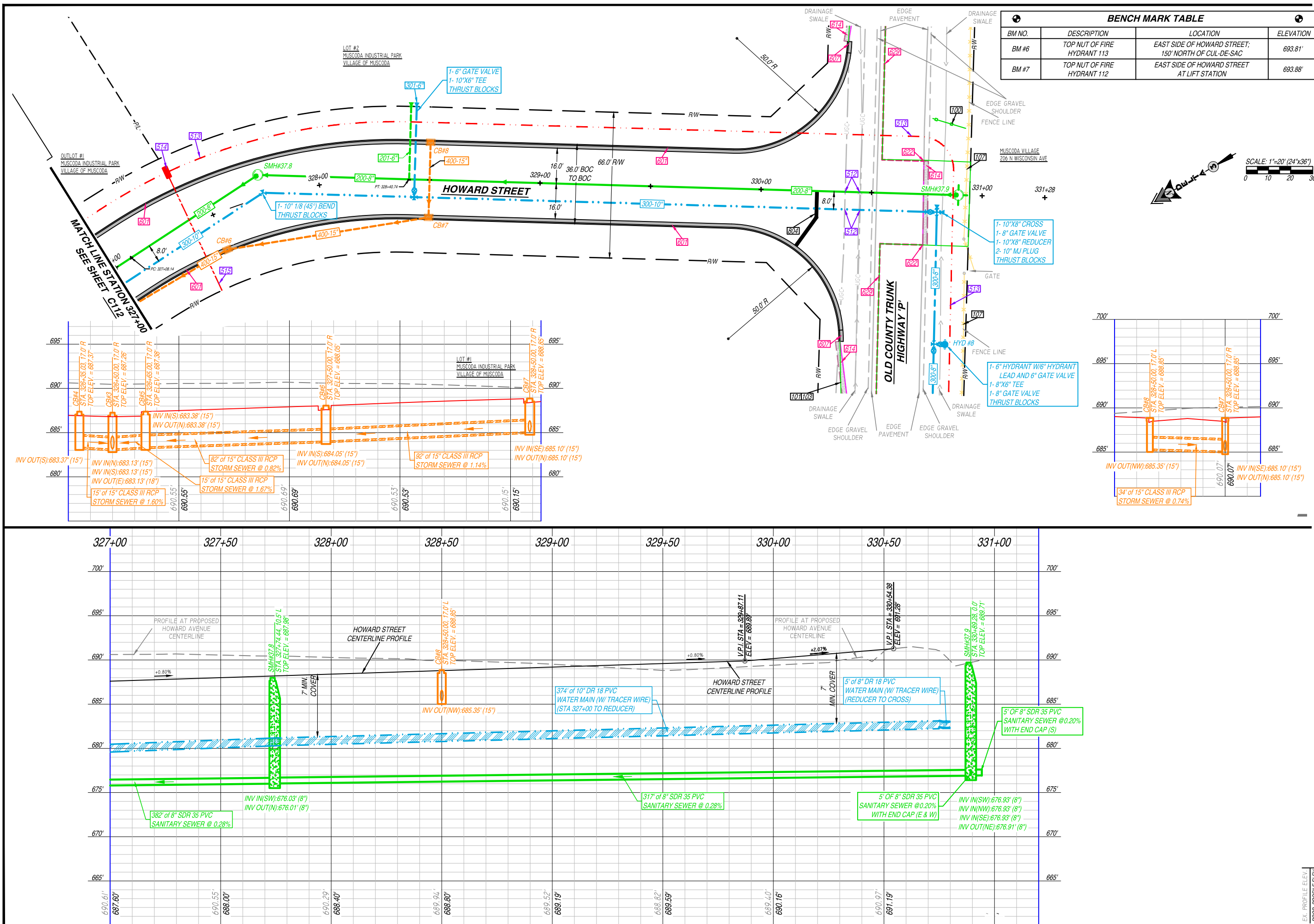
[illegible]

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	SEE BAR SCALE
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	PLAN & PROFILE - HOWARD STREET

**SHEET TITLE:**

**C112**

**SHEET**  
**NUMBER # 14 of 41**



BENCH MARK TABLE			
BM NO.	DESCRIPTION	LOCATION	ELEVATION
BM #6	TOP NUT OF FIRE HYDRANT 113	EAST SIDE OF HOWARD STREET; 150' NORTH OF CUL-DE-SAC	693.81'
BM #7	TOP NUT OF FIRE HYDRANT 112	EAST SIDE OF HOWARD STREET AT LIFT STATION	693.88'

**ENGINEER:**

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PLATTEVILLE, WISCONSIN 53181

808 JACKSON STREET      PHONE: (563) 542-9005  
QUINCY, ILLINOIS 62401

FOR QUESTIONS  
REGARDING THIS PROJECT,  
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DELTA 3 ENGINEERING, INC.  
TELEPHONE: (608) 348-5355

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**MUSCODA BUSINESS PARK EXPANSION**  
**EDA AWARD NUMBER: 06-79-06393**

**PROJECT LOCATION:** INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'

[illegible]

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	SEE BAR SCALE
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	PLAN & PROFILE - HOWARD STREET

**SHEET TITLE:**

**C113**

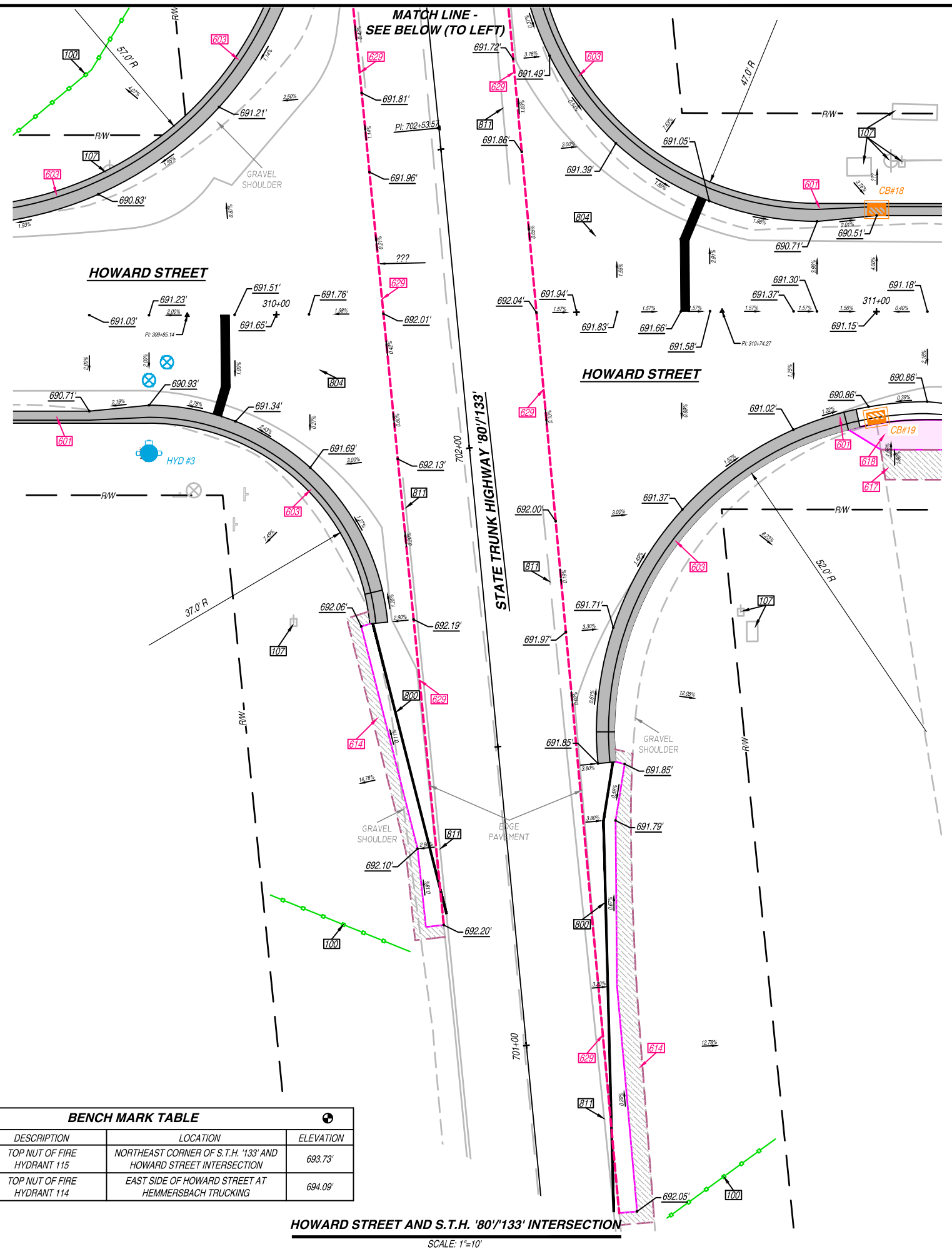
**SHEET**  
**NUMBER # 15 of 41**











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808 JACKSON STREET      PHONE: (563) 542-9005  
DUBUQUE, IOWA 52001

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**EDA AWARD NUMBER: 06-79-06393**

OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573

[illegible]

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	SEE BAR SCALE
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	PLAN VIEW - INTER. GRADING

**SHEET TITLE:**

**C117**

**SHEET**  
**NUMBER # 19 of 41**













TYPE OF EROSION CONTROL DEVICE	MINIMUM SLOPE LENGTH (ft)	DITCH GRADE						REMARKS			
		< 2%		2% - 4%		4% - 8%			8% - 12% *		
		Max. Length (ft)	Max. Slope (ft)	Max. Length (ft)	Max. Slope (ft)	Max. Length (ft)	Max. Slope (ft)		Max. Length (ft)	Max. Slope (ft)	
Seed with properly anchored mulch	0.5	300	600	1200	300	600	1200	300	600	1200	
Seed with properly anchored mulch	0.5										Anchor mulch over specifications.
Seed with check dams with seed and mulch	N/A				C						Install one ditch check for every 1 foot of drop. Seed slope as required.
Temporary ditch checks (Type I) or approved transverse alternatives listed in the WADOT T&E	N/A										Install one ditch check for every 2 feet of drop. Maximum 20' spacing. Not recommended for slopes less than 1%.
Ditch lock liner	1.0										Upstream end must be buried. Additional soil systems required.
Double nailed light duty (WADOT Class II Type I) erosion mat	1.5										Only mat type products allowed.
Grid reinforced with a double nailed (Type WADOT Class II Type I) erosion mat	1.5										Upstream end must be buried. Additional soil systems required. Two full forms needed.
Stone or rock ditch checks, or Rock-Pile Rip-Rap ditches	N/A										Use No. 2 concrete aggregate, railroad ballast, or breaker run. Install one ditch check for every 2 feet of drop. Use in conjunction with a channel lining.
Medium duty cobweb erosion mat (WADOT Class II Type II or C)	2.0										
Heavy duty cobweb (WADOT Class III Type I) erosion mat or turf reinforcement mat (WADOT Class II Type II)	2.0										Generation may be a problem with Class III Type A mats. An ECM is required for initial erosion protection for Class II Type B mats.
Heavy duty synthetic turf reinforcement (WADOT Class II Type C) mat	3.5										An ECM is required for initial erosion protection. Contact manufacturer if higher shears are needed.
Riprap ditch checks	N/A										Please top of downstream ditch check with wall of upstream ditch check. Use in conjunction with a channel lining.
Heavy duty synthetic turf reinforcement (Class III Type D) mat	5										An ECM is required for initial erosion protection. Contact manufacturer if higher shears are needed.
Light strip	5										Outfacing, overlapping and sizer need to be addressed. Use 2" minimum ditch depth.
Medium strip	5										
Heavy strip	5										

\* Riprap measures apply to all ditch types. Use of these measures requires engineering judgement and design.

**STONE DITCH CHECK**  
SCALE: N.T.S.

**DIVERSION BERM DETAIL**  
SCALE: N.T.S.

PROPOSED 1-1/2" DIA.  
WELL- COMPACTED CRUSHED  
AGGREGATE BASE COURSE  
(CABC)

4"

12"

PROPOSED WELL-COMPACTED  
SELECT MATERIAL

**STAGING AREA DETAIL**

SCALE: N.T.S.

A cross-sectional diagram of a ditch showing the re-profiled rip-rap. The ditch has a flat bottom and sloped sides. The bottom is labeled "5' MIN. BOTTOM" with a dimension line. The sides are labeled with slopes: "4:1 MAX." on the left, "3:1 MAX." on the left side of the bottom, "5:1 MAX." on the right side of the bottom, and "4:1 MAX." on the right. The rip-rap is labeled "HEAVY RIP-RAP (MIN. 2.5 THICK)". A layer of "GEOTEXTILE FABRIC" is shown beneath the rip-rap. The top edges are labeled "MATCH EXIST" with arrows pointing to the existing ground line. A north arrow is located in the upper left corner.

**TYPICAL RE-PROFILE RIP-RAP DITCH DETAIL**

SCALE: N.T.S.

A technical cross-section diagram of a roadside ditch. The diagram shows a ditch with a flat bottom and sloped sides. Labels include: "PROPOSED FINISH GRADE" pointing to the top left slope; "EXISTING GRADE" pointing to the ground surface above the ditch; "TOP OF DITCH SLOPE" pointing to the upper edge of the right-hand slope; "EDGE OF SHOULDER" pointing to the far right boundary; "MAX. 3:1 SLOPE" indicating the steepness of the left side; "5' MINIMUM" with a double-headed arrow indicating the width of the ditch bottom; "6\"

The diagram illustrates a cross-section of a grass swale. On the left, the 'TOE OF SLOPE' is marked with a hatched area representing 'KEY EROSION CONTROL REVEGETATIVE MAT (ECRM) 18" INTO GROUND (SEE NOTE 2)'. The 'DIRECTION OF FLOW' is indicated by an arrow pointing right. The 'SLOPE TOP' is the upper edge of the swale. On the right, the 'REBUILD BANK WITH CLAY OR NATIVE MATERIAL (SEE NOTE 1)' is shown as a hatched area. Above the bank, 'PROVIDE MINIMUM 6" OF BLACK TOPSOIL, SEED, FERTILIZER, AND MULCHING' is indicated. The top surface of the swale is labeled 'TOP SLOPE'. At the top right, 'KEY EROSION CONTROL REVEGETATIVE MAT (ECRM) 18" INTO GROUND (SEE NOTE 2)' is shown as a hatched area. On the far right, 'KEY TURN REINFORCING MAT (TRM) INTO SIDE SLOPE (SEE NOTE 1)' is indicated. A 'NOTE' section at the bottom right contains the following text:

**NOTE:**

1. CLAY NATIVE, AND TOP SOIL MATERIAL SHALL BE FROM A LOCAL SOURCE FREE OF CONTAMINATION.
2. KEY ECRM AND TRM 18" INTO GROUND UNDER PROPOSED RIP-RAP AT THE BEGINNING AND AT THE END WHEN INSTALLING FOR A GRASS SWALE APPLICATION.

**EROSION MATTING ANCHORING DETAIL - SIDE SLOPE**  
SCALE: N.T.S.

**VIEW A-A OF SEDIMENT TRAP PRINCIPAL OUTLET**

SCALE: N.T.S.

ALL STONE TO BE USED AS PART OF AN EROSION OR SEDIMENT CONTROL MEASURE TO BE CLEAR AND CLEAN. ALL STONE THAT IS 3" DIA. OR LESS TO BE WASHED AND CLEAN.

EMERGENCY SPILLWAY  
FLOW REGION 0.5-FEET  
TYPICAL

TOP WIDTH OF EMBANKMENT 4-FEET  
MINIMUM

EMBANKMENT

MAXIMUM SIDE  
SLOPES (2H:1V)

2-FEET MAXIMUM  
HEIGHT FROM TOE TO TOP  
OF EMBANKMENT

HEIGHT FROM BOTTOM TO  
INVERT OF PRINCIPAL OUTLET  
3-FEET TYPICAL

SEDIMENT TRAP BOTTOM

GEOTEXTILE  
FABRIC

TOP WIDTH OF PRINCIPAL OUTLET  
2-FEET MINIMUM

STONE OUTLET-  
WELL-GRADED 3" - 6" DIA.  
CLEAR STONE

STABILIZED OUTLET WITH  
MEDIUM RIP-RAP OVER  
FABRIC

DIRECTION OF FLOW

**NOTES:**

- ① SIDE-SLOPES AND FACES OF EARTHEN EMBANKMENT AROUND OUTLET SHALL BE ARMORED WITH 6"-12" RIP-RAP TO THE DIMENSIONS PROVIDED IN THE SEDIMENT TRAP TABLE (SHEET #2).
- ② TEMPORARY SEED AND MULCH SHALL BE INSTALLED ON SEDIMENT TRAP BERM.

TOP OF EMBANKMENT

EMERGENCY SPILLWAY HEIGHT

6'

EMERGENCY SPILLWAY

STONE OUTLET- WELL-GRADED 3" - 6" DIA. CLEAR STONE

STABILIZED SIDE MAXIMUM SLOPE (2H:1V)

STABILIZED SIDE-SLOPES

①

HEIGHT FROM BOTTOM TO PRINCIPAL OUTLET INVERT (3-FEET TYPICAL)

GEOTEXTILE FABRIC

5'

WEIR WIDTH (SEE PLAN)

5'

SEDIMENT TRAP BOTTOM

KEYWAY TRENCH

PRIMARY OUTLET HEIGHT 1.5- FEET TYPICAL

**CROSS-SECTION VIEW OF SEDIMENT TRAP PRINCIPAL OUTLET**

SCALE: N.T.S.

\*SEE SEDIMENT TRAP TABLE FOR DIMENSIONS AND ELEVATIONS

DIRECTION OF FLOW

PROVIDE TOPSOIL 6" MINIMUM

4:1 TYP.

3"

PROPOSED FINISH GRADE

3"

3:1 TYP.

PROVIDE TOPSOIL 6" MINIMUM

DIRECTION OF FLOW

PROPOSED GROUND

PROVIDE EROSION CONTROL REVEGETATIVE MAT (ECRM) AS PER SECTION 02374.0 OF THE PROJECT SPECIFICATIONS

**TYPICAL GRASS SWALE DETAIL - LOW FLOW SWALES**

SCALE: N.T.S.

PROVIDE EROSION CONTROL REVEGETATIVE MAT (ECRM) AS PER SECTION 02374.0 OF THE PROJECT SPECIFICATIONS

KEY EROSION CONTROL REVEGETATIVE MAT (ECRM) 18" INTO GROUND (SEE NOTE 2)

DIRECTION OF FLOW

PROVIDE MINIMUM 6" OF BLACK TOPSOIL, SEED, FERTILIZER, AND MULCHING

PROVIDE MINIMUM 2" OF BLACK TOPSOIL, SEED, FERTILIZER, AND MULCHING

KEY TURF REINFORCEMENT MAT (TRM) 18" INTO SIDE SLOPE (SEE NOTE 2)

REBUILD BANK WITH CLAY OR NATIVE MATERIAL (SEE NOTE 1)

PROVIDE TURF REINFORCEMENT MAT (TRM) AS PER SECTION 02374.0 OF THE PROJECT SPECIFICATIONS

PROVIDE MINIMUM 4" OF BLACK TOPSOIL, SEED, FERTILIZER, AND MULCHING

3" TYP.

30'

TYPICAL GRASS SWALE DETAIL - HIGH FLOW SWALES

SCALE: N.T.S.

TYPICAL GRASS SWALE DETAIL - HIGH FLOW SWALES

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PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	NOT TO SCALE
DRAWN BY	C. COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	DETAILS - EROSION CONTROL & NOTES

**SHEET**  
**NUMBER # 23 of 41**

**SHEET**  
**NUMBER # 24 of 41**

**MARK DIGMAN, P.E.**  
DELTA 3 ENGINEERING, INC.  
TELEPHONE: (608) 348-5355

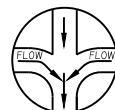
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TABLE A - SANITARY STRUCTURES								
STRUCTURE NUMBER:	STA./LOCATION:	TYPE/SIZE:	CASTING TYPE:	TOP ELEV.:	INV. OUT ELEV.:	DEPTH:	FRAME/CHIMNEY:	DROP MANHOLE:
SMH#35	200+98.64, 21.98' R	4.0' DIA. PRECAST	R-1550*	688.28'	(S) 666.36'	21.92'	INTERNAL/EXTERNAL	YES
SMH#36	204+00.00, 5.68' L	4.0' DIA. PRECAST	R-1550*	689.01'	(W) 667.26'	21.75'	INTERNAL/EXTERNAL	NO
SMH#37	207+82.59, 5.68' L	4.0' DIA. PRECAST	R-1550*	690.49'	(W) 668.35'	22.14'	INTERNAL/EXTERNAL	NO
SMH#37.09	208+97.56, 6.11' L	4.0' DIA. PRECAST	R-1550*	689.86'	(W) 668.69'	21.17'	INTERNAL/EXTERNAL	YES
SMH#37.2	303+95.00, 0.00'	4.0' DIA. PRECAST	R-1550*	689.30'	(N) 669.29'	20.01'	INTERNAL/EXTERNAL	NO
SMH#37.3	307+95.00, 0.00' R	4.0' DIA. PRECAST	R-1550*	690.12'	(N) 670.43'	19.69'	INTERNAL/EXTERNAL	NO
SMH#37.4	311+95.00, 0.00'	4.0' DIA. PRECAST	R-1550*	691.53'	(N) 671.57'	19.96'	INTERNAL/EXTERNAL	NO
SMH#37.5	315+95.00, 0.00'	4.0' DIA. PRECAST	R-1550*	690.72'	(N) 672.69'	18.03'	INTERNAL/EXTERNAL	NO
SMH#37.6	319+95.02, 0.00'	4.0' DIA. PRECAST	R-1550*	690.88'	(N) 673.82'	17.06'	INTERNAL/EXTERNAL	NO
SMH#37.7	323+95.03, 0.00'	4.0' DIA. PRECAST	R-1550*	689.10'	(N) 674.94'	14.16'	INTERNAL/EXTERNAL	NO
SMH#37.8	327+74.44, 10.49' L	4.0' DIA. PRECAST	R-1550*	687.98'	(N) 676.01'	11.97'	INTERNAL/EXTERNAL	NO
SMH#37.9	508+05.52, 26.59' R	4.0' DIA. PRECAST	R-1550*	689.71'	(NE) 676.91'	12.80'	INTERNAL/EXTERNAL	NO

**NOTE:**  
FLOWLINE OF DROP TO BE SET  
AT SAME ELEVATION, AS SPRING  
LINE OF MAIN. WHENEVER "X" IS  
GREATER THAN 2 FEET AN  
OUTSIDE DROP MUST BE  
CONSTRUCTED AS SHOWN.



**NOTE:**  
FLOWLINE OF DROP TO BE SET  
AT SAME ELEVATION, AS SPRING  
LINE OF MAIN. WHENEVER "X" IS  
GREATER THAN 2 FEET AN  
OUTSIDE DROP MUST BE  
CONSTRUCTED AS SHOWN.



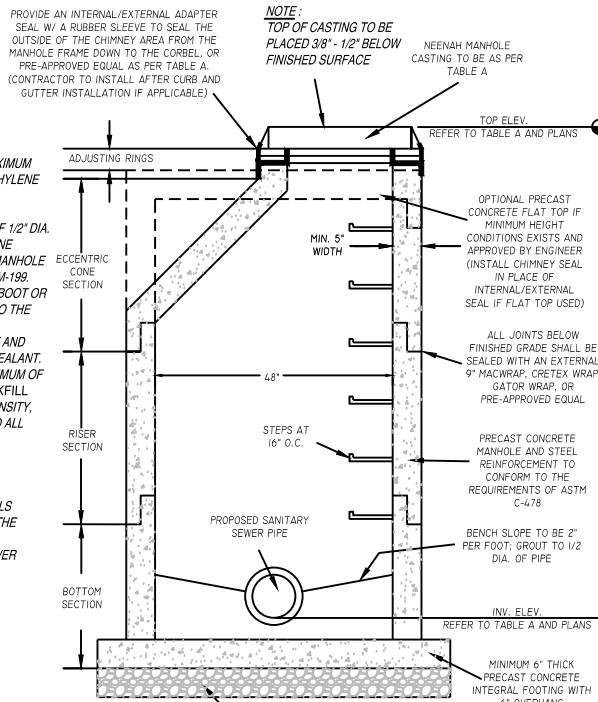
**MANHOLE FLOOR DETAIL**

NOTES: SCALE: N.T.S.

1. **ADJUSTING RINGS** - MINIMUM RING HEIGHT: 1"; MAXIMUM RING HEIGHT: 6"; RINGS TO BE HIGH-DENSITY POLYETHYLENE (H.D.P.E.) ADJUSTED RINGS BY LADTECH, INC. OR PRE-APPROVED EQUAL.
2. **MANHOLE STEPS** - STEPS SHALL BE FABRICATED OF 12" DIA. GRADE 60 STEEL REINFORCEMENT WITH POLYETHYLENE PLASTIC COVERING BY A.M. INDUSTRIES, OR EQUAL. MANHOLE STEPS SHALL CONFORM TO ASTM C-478 AND ASHRAE M-198.
3. **PIPE CONNECTIONS** - PROVIDE A PRESS-SEAL PSX BOOT OR PRE-APPROVED EQUAL FOR ALL PIPE CONNECTIONS TO THE MANHOLE.
4. **MANHOLE JOINTS** - JOINTS SHALL BE WATER TIGHT AND SHALL BE MADE USING RUBBER GASKETS OR BUTYL SEALANT.
5. **STRUCTURE BACKFILL MATERIAL** - PROVIDE A MINIMUM OF 12" OF CRUSHED ROAD GRAVEL OR GRANULAR BACKFILL MATERIAL. COMPACTED TO 95% OF MAXIMUM DRY DENSITY, BASED ON MODIFIED PROCTOR (ASTM D-1557) AROUND ALL SIDES OF MANHOLE.

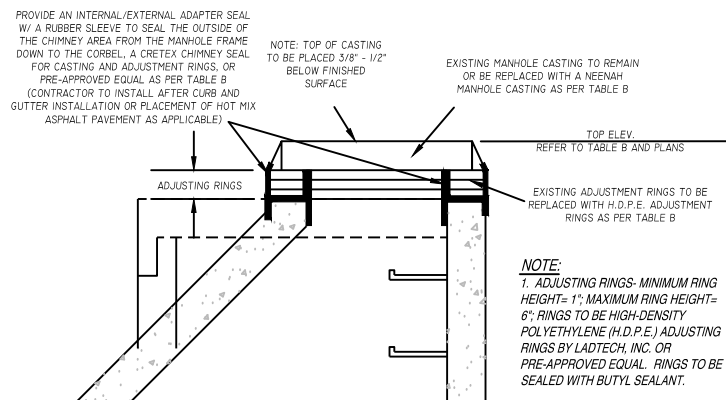
**SANITARY SEWER NOTE**

THE LOCATION OF EXISTING SANITARY SEWER LATERALS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND STATUS OF EACH SANITARY SEWER LATERAL ENCOUNTERED. ONLY ACTIVE SANITARY SEWER LATERALS SHALL BE RECONNECTED TO THE SANITARY SEWER MAIN.



**PRECAST CONCRETE MANHOLE DETAIL**

SCALE: N.T.S.



**MANHOLE CHIMNEY REHABILITATION DETAIL**

SCALE: N.T.S

[illegible]

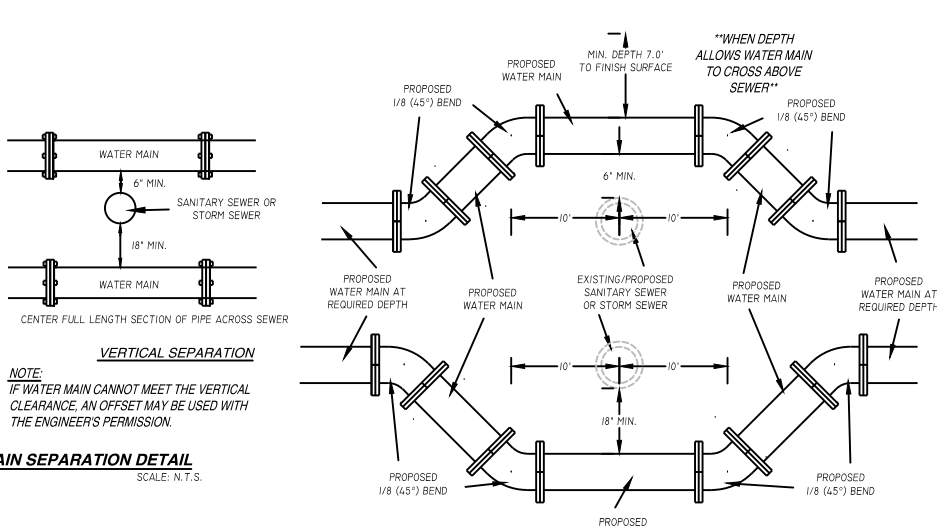
PROJECT NUMBER	D20-121
SHEET SCALE	NOT TO SCALE
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	DETAILS - SANITARY SEWER SYSTEM

**C205**

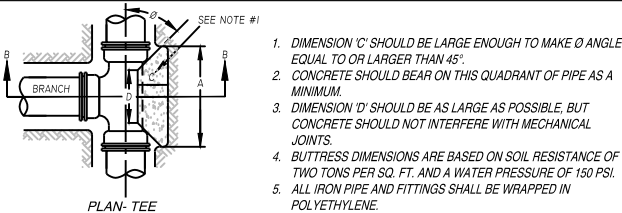
**MUSCODA BUSINESS PARK EXPANSION**  
**EDA AWARD NUMBER: 06-79-06393**

PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573





<b>BUTTRESS DIMENSIONS</b>						
<b>PIPE SIZE</b>	<b>22 1/2" BENDS</b>		<b>45° BENDS</b>		<b>90° BENDS</b>	
	B1	D1	B2	D2	B3	D3
6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"
8"	1'-0"	1'-0"	1'-4"	1'-4"	1'-10"	1'-6"
10"	1'-4"	1'-4"	1'-10"	1'-10"	2'-8"	2'-3"
12"	1'-4"	1'-4"	1'-10"	1'-10"	2'-8"	2'-3"



B D	A	B	C	D
6"	1'-3"	1'-0"	E NOTE #1	E NOTE #3
8"	1'-6"	1'-4"		
12"	2'-3"	2'-0"		

**ENGINEER:**

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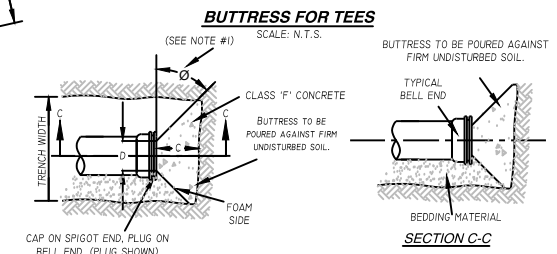
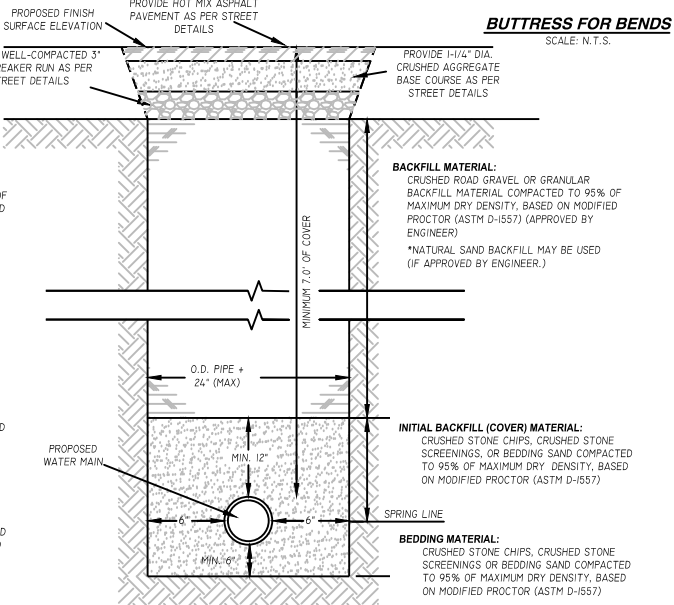
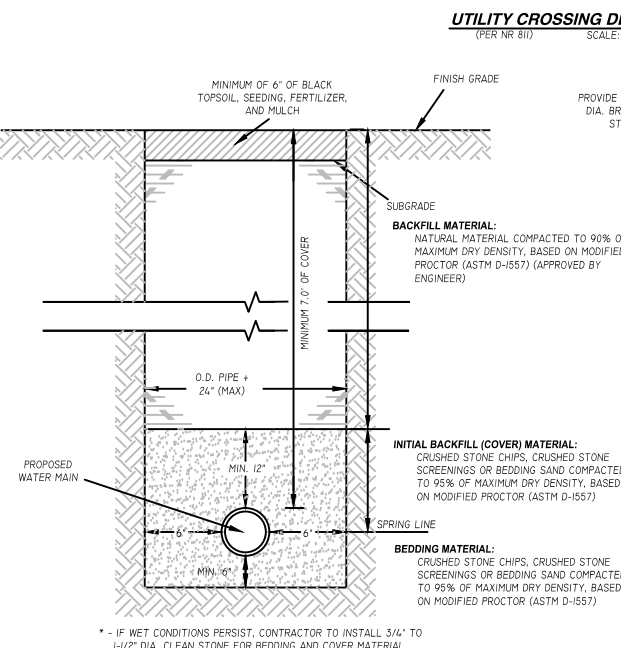
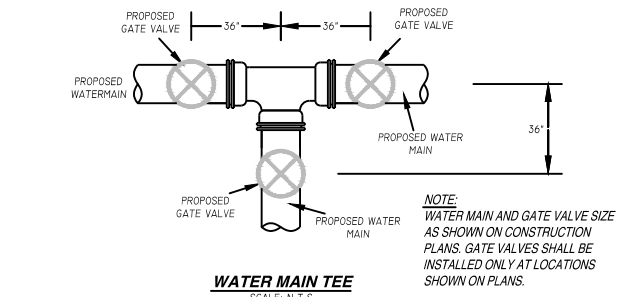
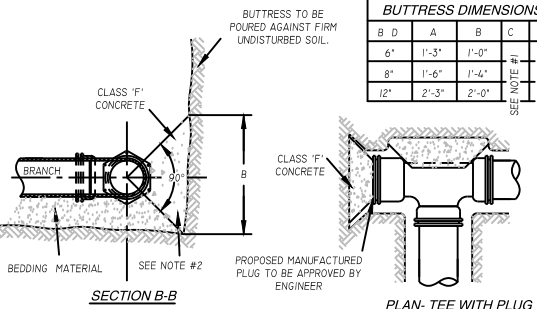
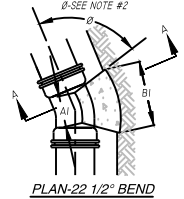
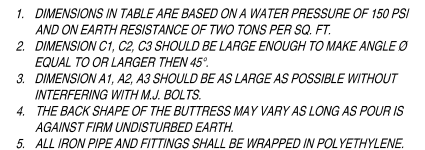
808 JACKSON STREET      PHONE: (562) 542-9005

**FOR QUESTIONS  
REGARDING THIS PROJECT,  
PLEASE CONTACT:**

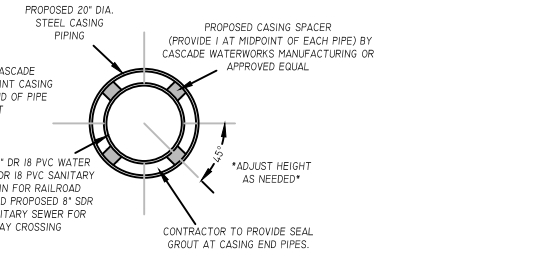
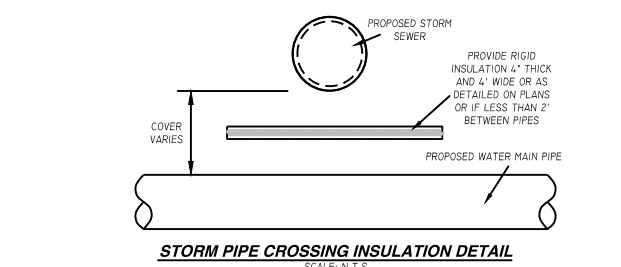
**MARK DIGMAN, P.E.**  
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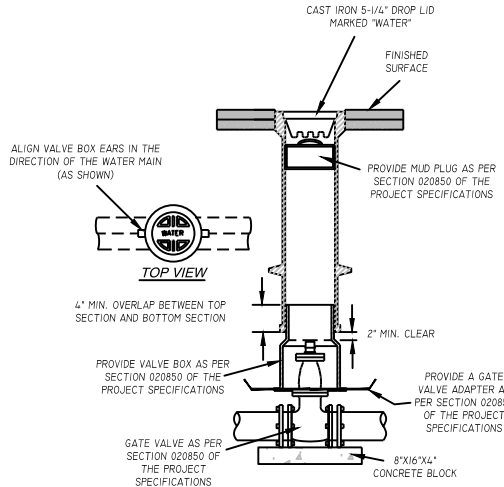
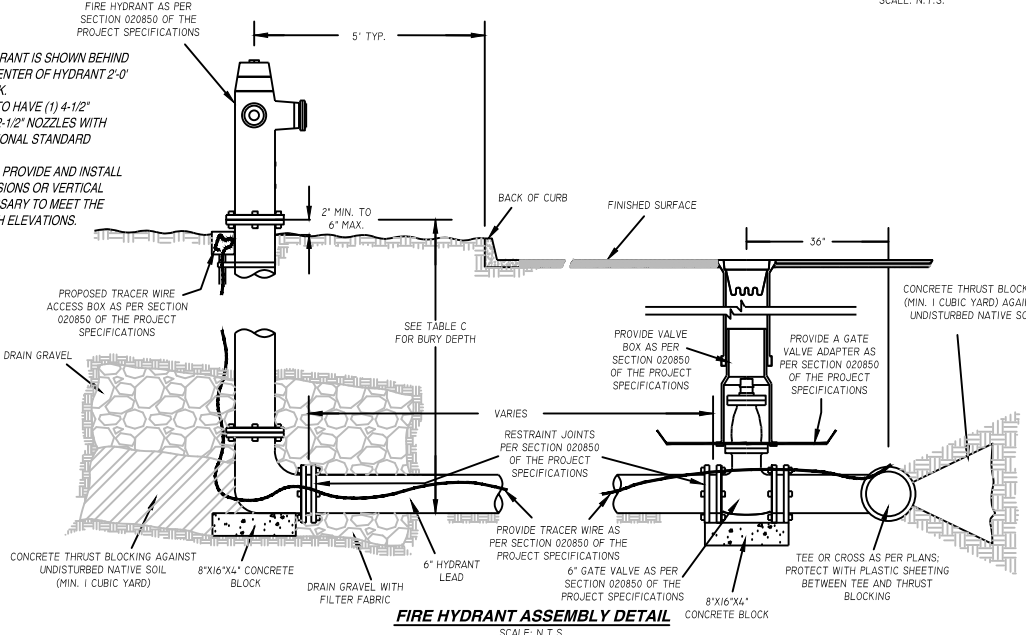
BUTTRESS DIMENSIONS				
B D	A	B	C	D
6"	1'-6"	1'-2"	SEE NOTE #1	SEE NOTE #2
8"	2'-0"	1'-4"		
10"/12"	2'-5"	1'-10"		



<u><b>REVISIONS:</b></u>		
<u><b>NO.</b></u>	<u><b>DATE</b></u>	<u><b>DESCRIPTION</b></u>
<u><b>AS-BUILT:</b></u>		<u><b>BY:</b></u>
_____-/-/_____		__, _____

**NOTES:**

1. WHERE FIRE HYDRANT IS SHOWN BEHIND SIDEWALK SET CENTER OF HYDRANT 2' BEHIND SIDEWALK.
2. FIRE HYDRANTS TO HAVE (1) 4-1/2" NOZZLE AND (2) 2-1/2" NOZZLES WITH CHAINS AND NATIONAL STANDARD THREADS (N.S.T.).
3. CONTRACTOR TO PROVIDE AND INSTALL HYDRANT EXTENSIONS OR VERTICAL BENDS AS NECESSARY TO MEET THE PROPOSED FINISH ELEVATIONS.



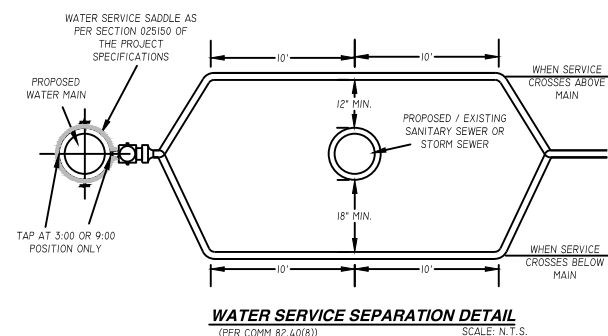
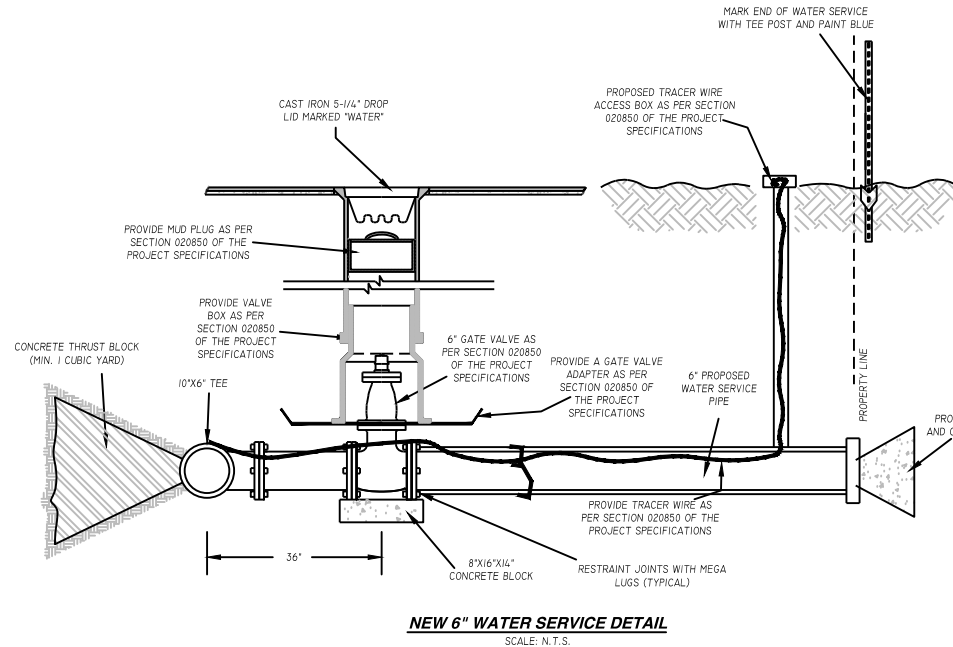
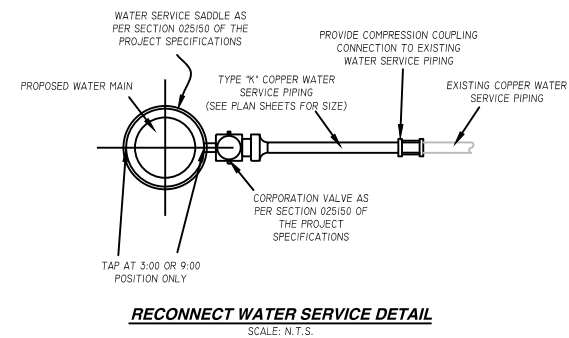
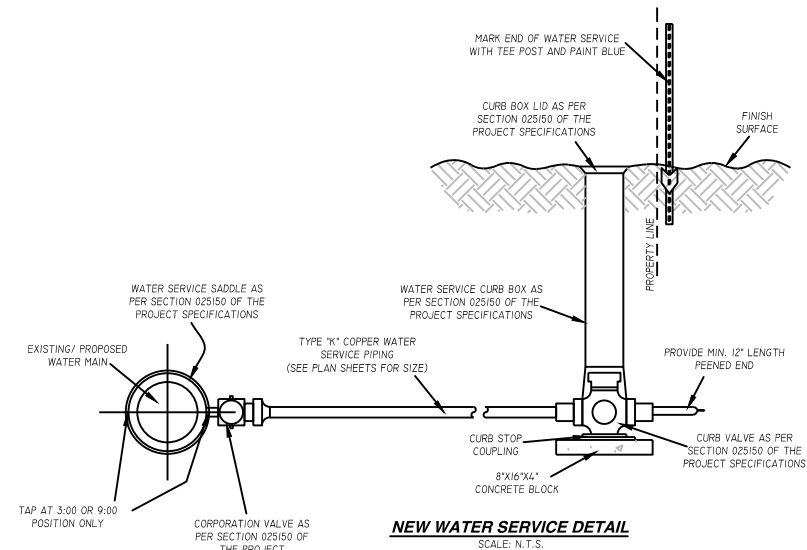
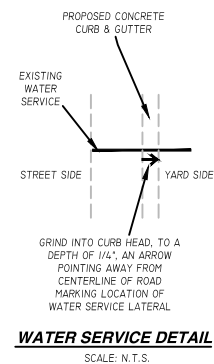
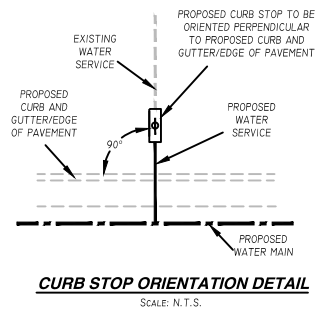
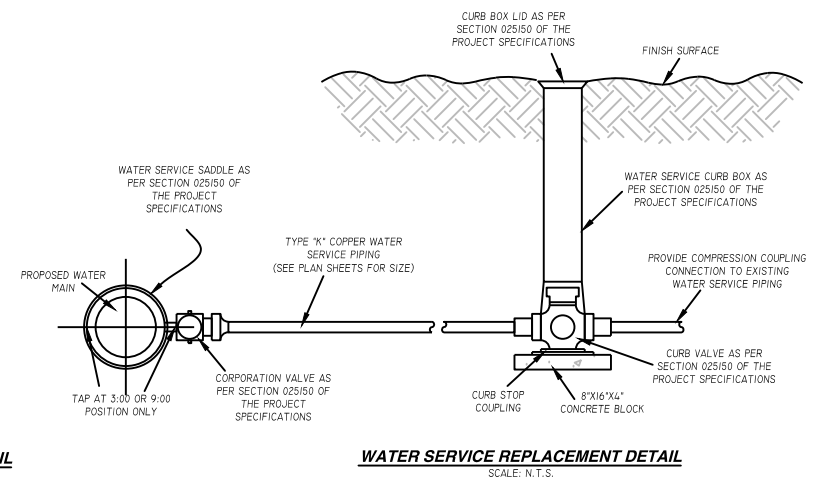
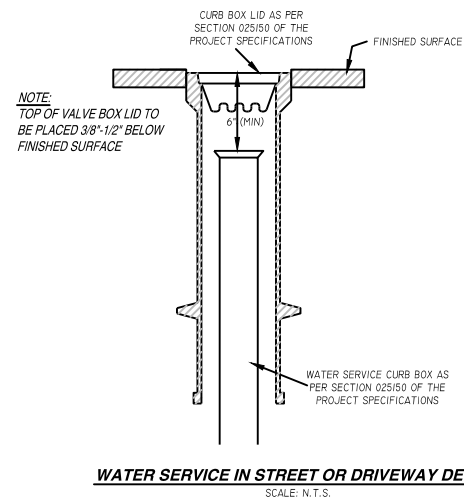
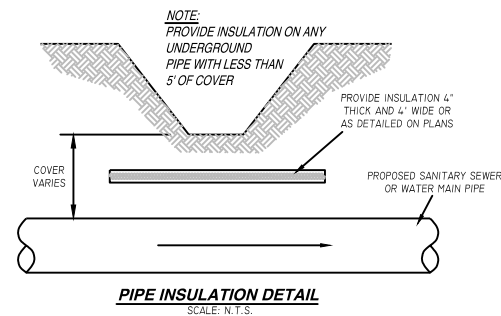
<b>STRUCTURE NUMBER:</b>	<b>STATION/LOCATION:</b>	<b>GROUND ELEV.:</b>	<b>FLANGE ELEV.:</b>	<b>BOT. HYD TEE ELEV.:</b>	<b>BURY DEPTH:</b>
HYD #1	200+68.09, 25.50' R	688.38'	688.71'	680.88'	7.50'
HYD #2	205+00.00, 25.50' L	688.93'	689.26'	681.43'	7.50'
HYD #3	309+78.78, 23.00' R	691.07'	691.40'	683.57'	7.50'
HYD #4	315+69.70, 23.00' R	690.73'	691.06'	682.73'	8.00'
HYD #5	319+90.13, 23.00' R	690.62'	690.95'	683.12'	7.50'
HYD #6	325+50.00, 23.00' R	688.04'	688.37'	680.04'	8.00'
HYD #7	501+39.01, 22.00' R	691.85'	692.18'	684.35'	7.50'
HYD #8	507+37.83, 22.00' R	689.87'	690.70'	682.37'	8.00'

FOR BID

PROJECT NUMBER	D20-121
SHEET SCALE	NOT TO SCALE
DRAWN BY	C. COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	DETAILS - WATER SYSTEM

**SHEET TITLE:**

***C206***



**ENGINEER:**

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808 JACKSON STREET PHONE: (563) 542-9005  
DEARBORN, IOWA 52001

**FOR QUESTIONS  
REGARDING THIS PROJECT,  
PLEASE CONTACT:**

**MARK DIGMAN, P.E.**  
DELTA 3 ENGINEERING, INC.  
TELEPHONE: (608) 348-5355

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**MUSCODA BUSINESS PARK EXPANSION**  
**EDA AWARD NUMBER: 06-79-06393**

PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573

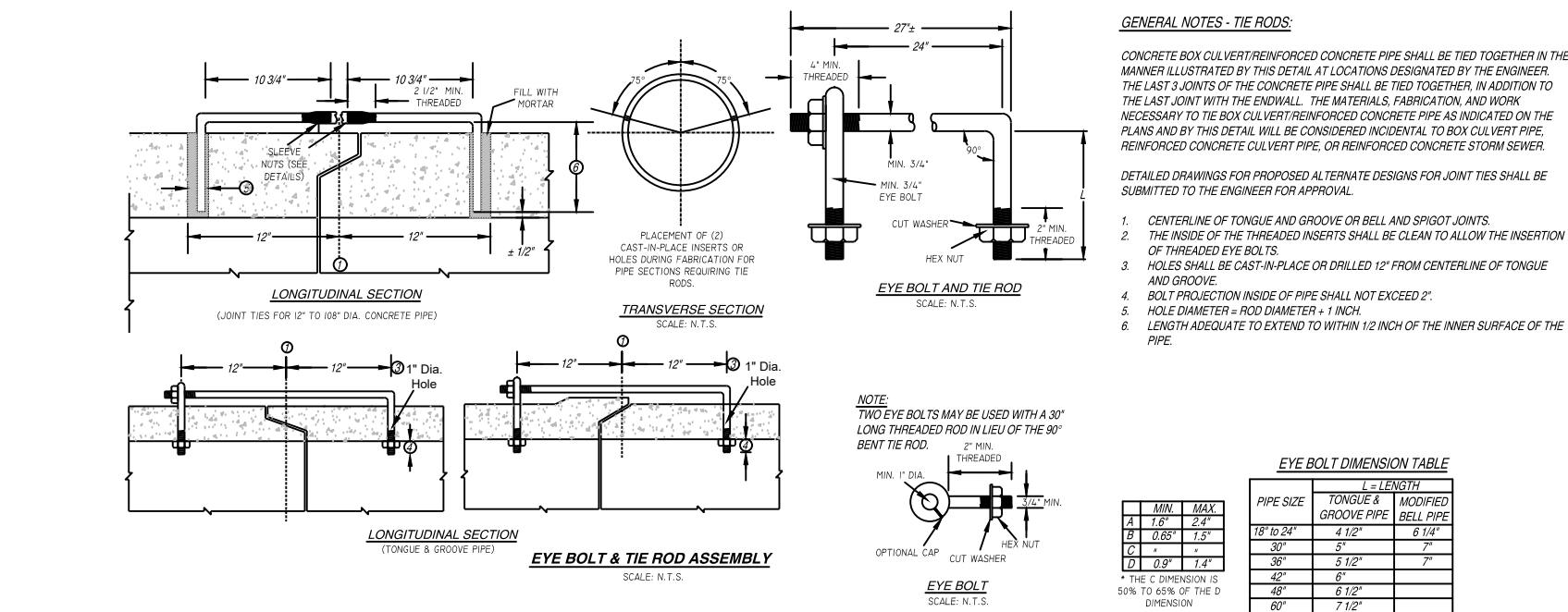
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FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	NOT TO SCALE
DRAWN BY	C. COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	DETAILS - WATER SYSTEM

**SHEET TITLE:**

**C207**

**SHEET  
NUMBER # 27 of 41**



**MINIMUM LENGTH OF APRON (FEET)**

**PIPE DIAMETER**

	12"	15"	18"	21"	24"	27"	30"	36"	42"	48"	54"	60"
3CFS	8											
5CFS	8											
8CFS	11	10										
10CFS	14	12	10									
15CFS	18	16	14	12								
20CFS		18	18	16	12							
30CFS			22	20	18	16						
40CFS			26	24	24	20	18					
50CFS				26	26	24	22	18				
70CFS					30	28	25					
100CFS						36	36	33	27			
150CFS						42	42	42	38	33	28	
200CFS								48	45	42	37	32

FROM USDA SOIL CONSERVATION SERVICE

**ADJUSTABLE TIE ROD TABLE**

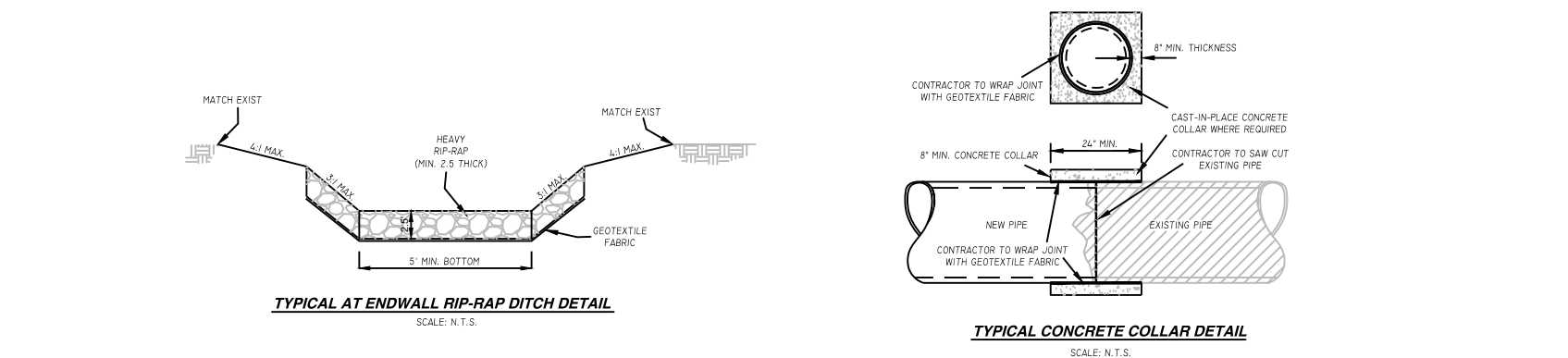
PIPE DIAMETER	TIE ROD DIAMETER	D		
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 7/16

DIMENSIONS SHOWN IN INCHES

**PLAN**  
SCALE: N.T.S.

**CROSS-SECTION**  
SCALE: N.T.S.

**APRON ENDWALL DETAIL**  
SCALE: N.T.S.



<b>STRUCTURE NUMBER:</b>	<b>STA./LOCATION:</b>	<b>TYPE/SIZE:</b>	<b>EX. TOP ELEV.:</b>	<b>PROP. TOP ELEV.:</b>	<b>CHANGE:</b>	<b>COMMENTS:</b>
CB#31	209+11.94, 19.84' L	PRECAST CONCRETE	689.50'	689.30'	-0.20"	REMOVE EXISTING CASTING AND ADJUSTMENT RINGS; PROVIDE AND INSTALL R-3092-A CASTING AND ADJUSTMENT RINGS
INL#24	301+32.80, 18.42' R	PRECAST CONCRETE 4' DIA.	689.28'	688.85'	-0.43"	REMOVE EX. CASTING AND ADJUSTMENT RINGS; PROVIDE AND INSTALL ADJUSTMENT RINGS AND REINSTALL EX. CASTING

TABLE D - STORM STRUCTURES							
STRUC. NUMBER:	STA./LOCATION:	TYPE/SIZE:	CASTING TYPE:	TOP ELEV.:	INV. OUT ELEV.:	DEPTH:	INLET PROTECTION:
CB#32	SECOND STREET	2'X3' PRECAST BOX	R-3067-L	690.00'	685.00'	5.00'	TYPE "D" OR SEDIMENT LOG
CB#22	204+50.00, 19.50' L	2'X3' PRECAST BOX	R-3067-L	688.61'	(E) 685.07'	3.54'	TYPE "D" OR SEDIMENT LOG
CB#23	204+50.00, 19.50' R	2'X3' PRECAST BOX	R-3092-A	688.24'	(N) 685.11'	3.13'	TYPE "D" OR SEDIMENT LOG
CB#20	207+00.00, 19.50' L	2'X3' PRECAST BOX	R-3092-A	688.94'	(E) 684.82'	4.13'	TYPE "D" OR SEDIMENT LOG
CB#21	207+00.00, 19.50' R	2'X3' PRECAST BOX	R-3092-A	688.94'	(N) 685.81'	3.13'	TYPE "D" OR SEDIMENT LOG
CB#25	302+75.00, 17.00' L	2'X3' PRECAST BOX	R-3092-A	688.43'	683.80'	4.63'	TYPE "D" OR SEDIMENT LOG
CB#26	302+75.00, 17.00' R	2'X3' PRECAST BOX	R-3092-A	688.43'	683.80'	4.63'	TYPE "D" OR SEDIMENT LOG
CB#27	305+75.00, 17.00' L	2'X3' PRECAST BOX	R-3092-A	689.61'	(W) 686.48'	3.13'	TYPE "D" OR SEDIMENT LOG
CB#28	305+75.00, 17.00' R	2'X3' PRECAST BOX	R-3067-L	689.94'	684.94'	5.00'	TYPE "D" OR SEDIMENT LOG
CB#29	308+25.00, 17.00' L	2'X3' PRECAST BOX	R-3067-L	689.90'	684.90'	5.00'	TYPE "D" OR SEDIMENT LOG
CB#30	308+25.00, 17.00' R	2'X3' PRECAST BOX	R-3067-L	689.74'	684.74'	5.00'	TYPE "D" OR SEDIMENT LOG
CB#18	311+00.00, 17.00' L	2'X3' PRECAST BOX	R-3067-L	690.89'	(S) 687.39'	3.50'	TYPE "D" OR SEDIMENT LOG
CB#19	311+00.00, 17.68' R	2'X3' PRECAST BOX	R-3092-A	690.82'	(E) 687.42'	3.39'	TYPE "D" OR SEDIMENT LOG
CB#16	313+25.00, 17.00' L	2'X3' PRECAST BOX	R-3092-A	690.42'	(S) 687.16'	3.26'	TYPE "D" OR SEDIMENT LOG
CB#17	313+25.00, 17.00' R	2'X3' PRECAST BOX	R-3092-A	690.42'	(E) 687.19'	3.22'	TYPE "D" OR SEDIMENT LOG
CB#14	317+75.00, 17.00' L	2'X3' PRECAST BOX	R-3067-L	690.06'	(S) 686.26'	3.80'	TYPE "D" OR SEDIMENT LOG
CB #15	317+75.00, 17.00' R	2'X3' PRECAST BOX	R-3067-L	689.74'	(E) 686.29'	3.44'	TYPE "D" OR SEDIMENT LOG
CB#13	320+24.82, 86.42' R	2'X3' PRECAST BOX	R-3067-L	689.30'	(S) 685.80'	3.50'	TYPE "D" OR SEDIMENT LOG
CB#12	321+63.38, 82.83' R	2'X3' PRECAST BOX	R-3067-L	689.29'	(E) 685.66'	3.63'	TYPE "D" OR SEDIMENT LOG
CB#11	321+64.30, 17.00' L	2'X3' PRECAST BOX	R-3067-L	690.88'	(S) 684.71'	6.17'	TYPE "B" OR SEDIMENT LOG
CB#9	323+75.00, 17.00' L	4' DIA. PRECAST	R-3067-L	689.31'	(S) 683.34'	5.97'	TYPE "B" OR SEDIMENT LOG
CB#10	323+75.00, 17.00' R	2'X3' PRECAST BOX	R-3067-L	689.31'	(E) 685.31'	4.00'	TYPE "B" OR SEDIMENT LOG
CB#4	326+35.03, 17.00' R	2'X3' PRECAST BOX	R-3067-L	687.37'	(S) 683.37'	4.00'	TYPE "D" OR SEDIMENT LOG
CB#2	326+50.00, 17.00' L	4' DIA. PRECAST	R-3067-L	687.26'	(E) 682.65'	4.61'	TYPE "D" OR SEDIMENT LOG
CB#3	326+50.00, 17.00' R	2'X3' PRECAST BOX	R-3067-L	687.26'	(E) 683.13'	4.13'	TYPE "D" OR SEDIMENT LOG
CB#5	326+65.00, 17.00' R	2'X3' PRECAST BOX	R-3067-L	687.38'	(N) 683.38'	4.00'	TYPE "D" OR SEDIMENT LOG
CB#6	327+50.00, 17.00' R	2'X3' PRECAST BOX	R-3067-L	688.05'	(N) 684.05'	4.00'	TYPE "B" OR SEDIMENT LOG
CB#8	328+50.00, 17.00' L	2'X3' PRECAST BOX	R-3067-L	688.85'	(NW) 685.35'	3.50'	TYPE "B" OR SEDIMENT LOG
CB#7	328+50.00, 17.00' R	2'X3' PRECAST BOX	R-3067-L	688.85'	(N) 685.10'	3.75'	TYPE "B" OR SEDIMENT LOG

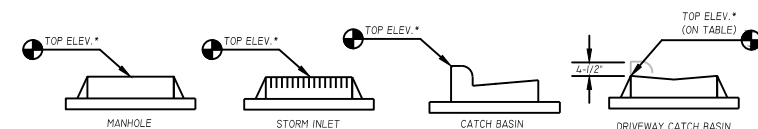
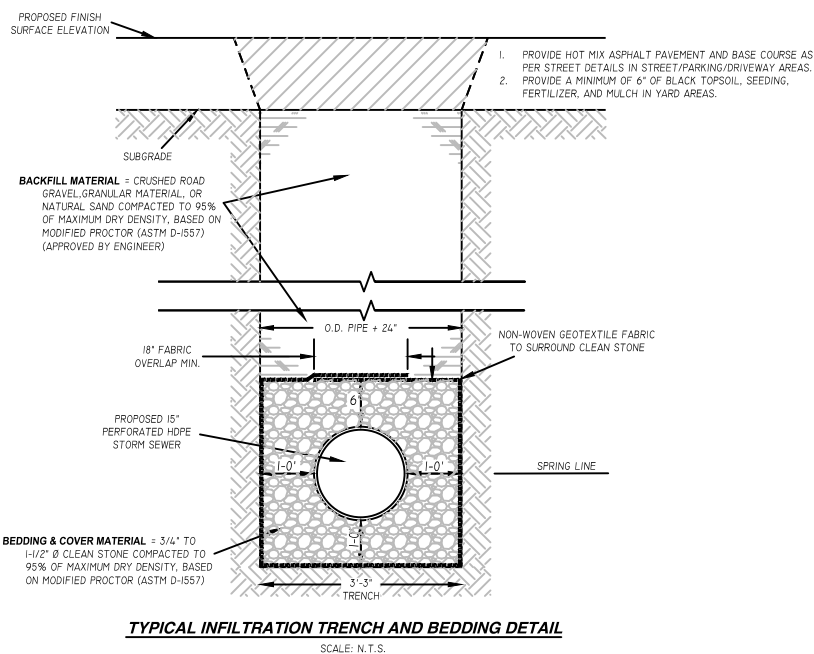
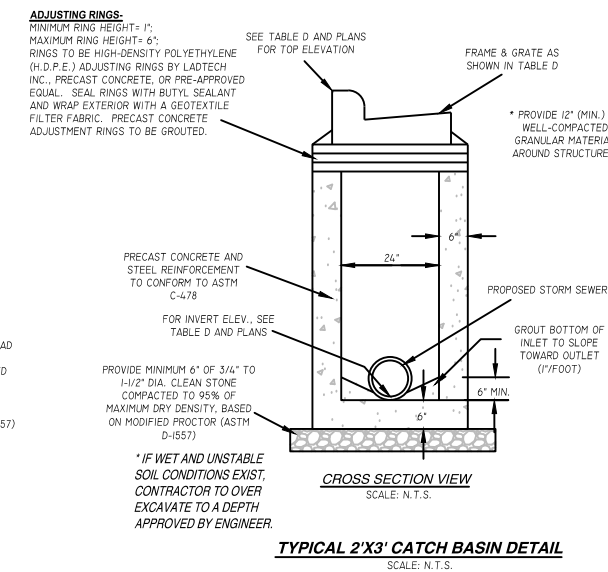
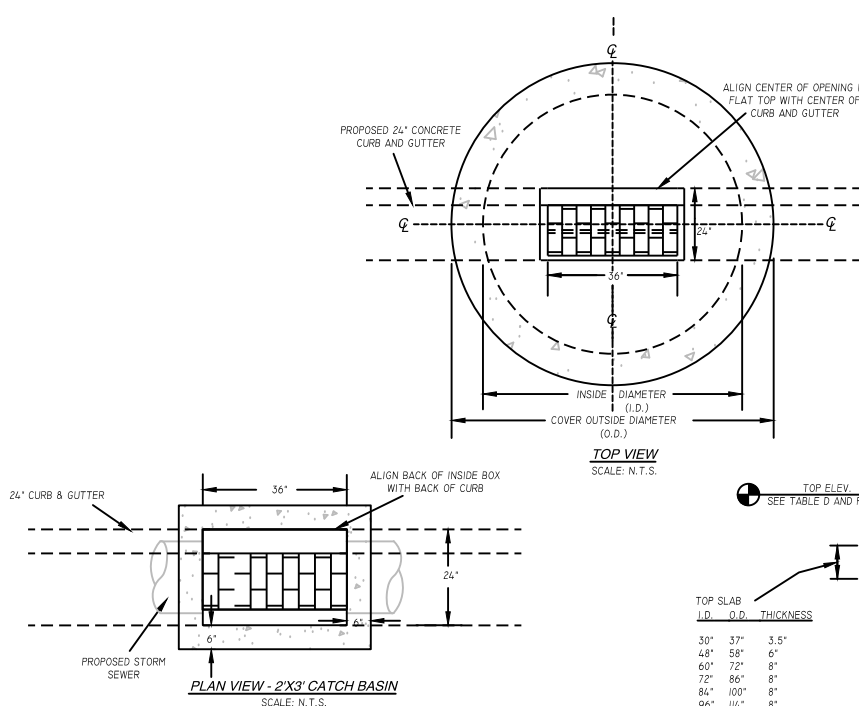
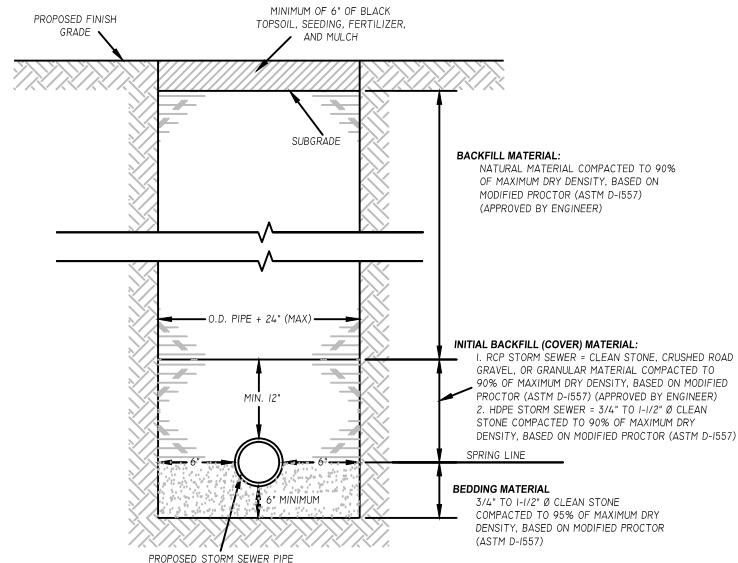
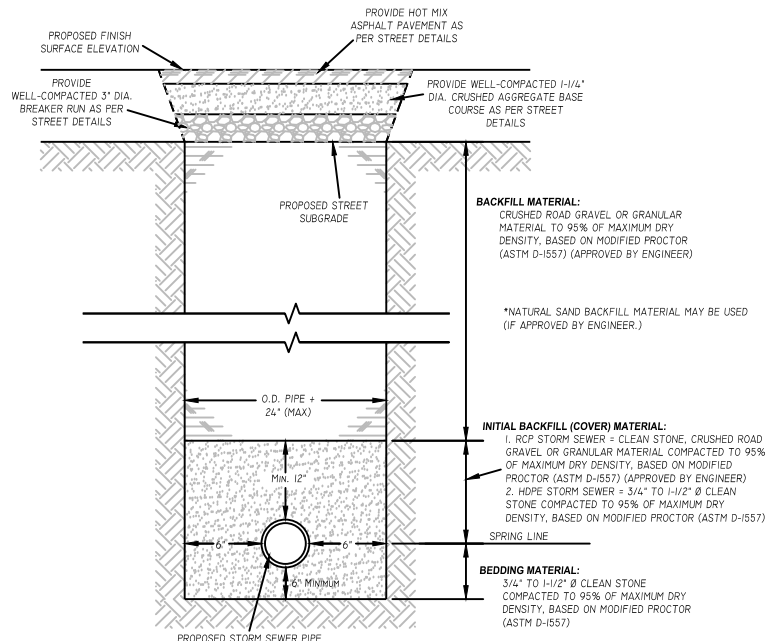
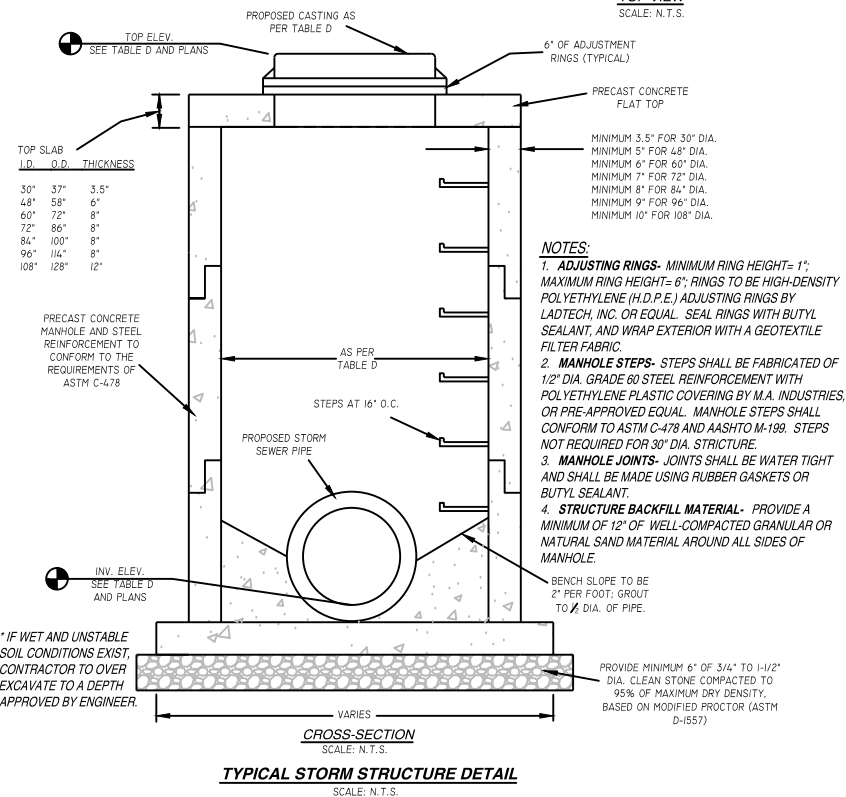
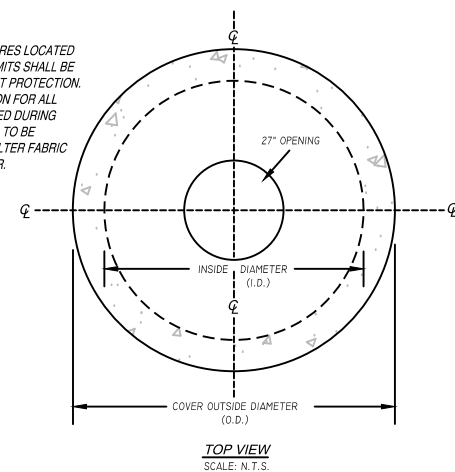


TABLE D - STORM STRUCTURES (ENDWALLS)					
STRUC. NUMBER:	STA./LOCATION:	TYPE/SIZE:	CASTING TYPE:	INV. IN/OUT ELEV.:	REMARKS
EW#1	326+50.03, 46.78' L	24" CONCRETE ENDWALL	--	(W) 682.27'	--





1. ALL EXISTING STORM STRUCTURES LOCATED WITHIN THE CONSTRUCTION LIMITS SHALL BE PROTECTED WITH TYPE 'D' INLET PROTECTION.
2. PROVIDE SEDIMENT PROTECTION FOR ALL STORM PIPE OPENINGS EXPOSED DURING CONSTRUCTION, PIPE OPENING TO BE COVERED WITH NON-WOVEN FILTER FABRIC AS DIRECTED BY THE ENGINEER.



- NOTES

- 1. ADJUSTING RINGS- MINIMUM RING HEIGHT= 1"; MAXIMUM RING HEIGHT= 6"; RINGS TO BE HIGH-DENSITY POLYETHYLENE (H.D.P.E.) ADJUSTING RINGS BY LATEX, INC. OR EQUIVALENT. SEAL RINGS WITH BUTYL SEALANT, AND WRAP EXTERIOR WITH A GEOTEXTILE FILTER FABRIC.**
- 2. MANHOLE STEPS- STEPS SHALL BE FABRICATED OF 1/2" DIA. GRADE 60 STEEL REINFORCEMENT WITH POLYETHYLENE PLASTIC COVERING BY M.A. INDUSTRIES, OR PRE-APPROVED EQUAL. MANHOLE STEPS SHALL CONFORM TO ASTM C-478 AND AASHTO M-199. STEPS NOT REQUIRED FOR 30" DIA. STRUCTURE.**
- 3. MANHOLE JOINTS- JOINTS SHALL BE WATER TIGHT AND SHALL BE MADE USING RUBBER GASKETS OR BUTYL SEALANT.**
- 4. STRUCTURE BACKFILL MATERIAL- PROVIDE A MINIMUM OF 12" OF WELL-COMPACTED GRANULAR OR NATURAL SAND MATERIAL AROUND ALL SIDES OF MANHOLE.**

[illegible]

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	NOT TO SCALE
DRAWN BY	C. COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	DETAILS - STORM SYSTEM

**SHEET TITLE:**

**C209**

**SHEET  
NUMBER # 29 of 41**

**MARK DIGMAN, P.E.**  
DELTA 3 ENGINEERING, INC.  
TELEPHONE: (608) 348-5355

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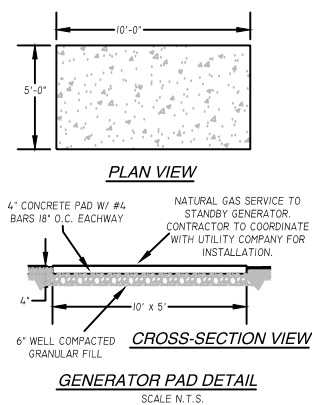
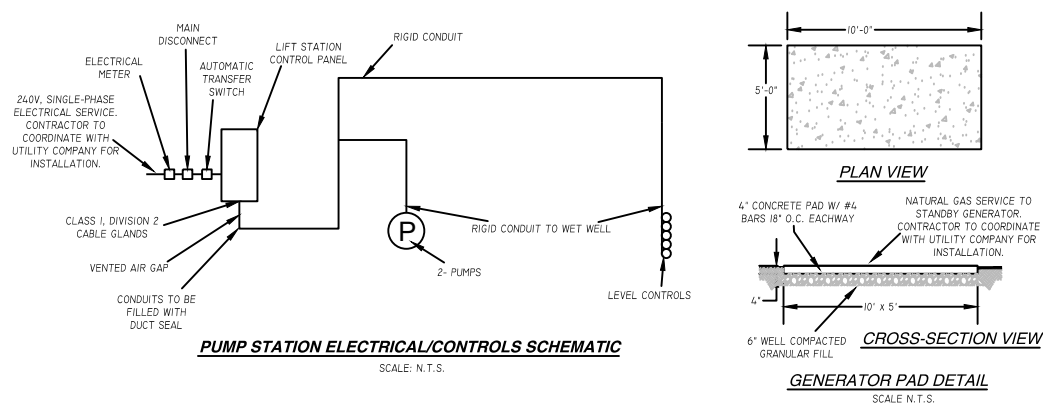
PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'



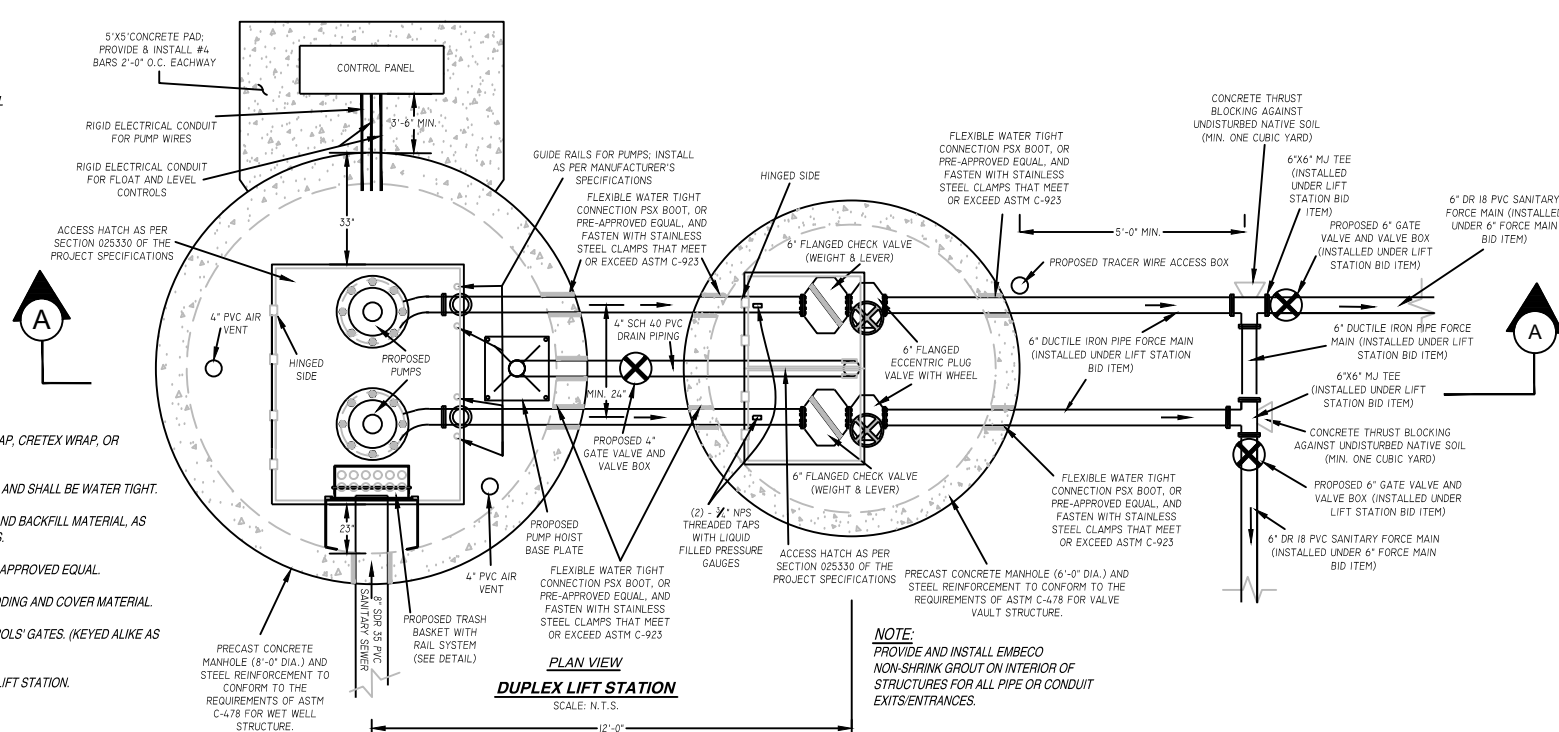
FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	NOT TO SCALE
DRAWN BY	C. COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	DETAILS - STREET

***C210***

**SHEET**  
**NUMBER # 30 of 41**

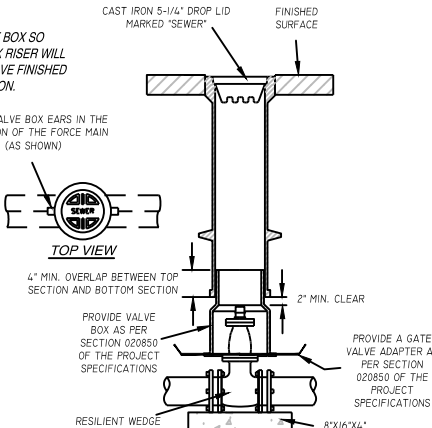
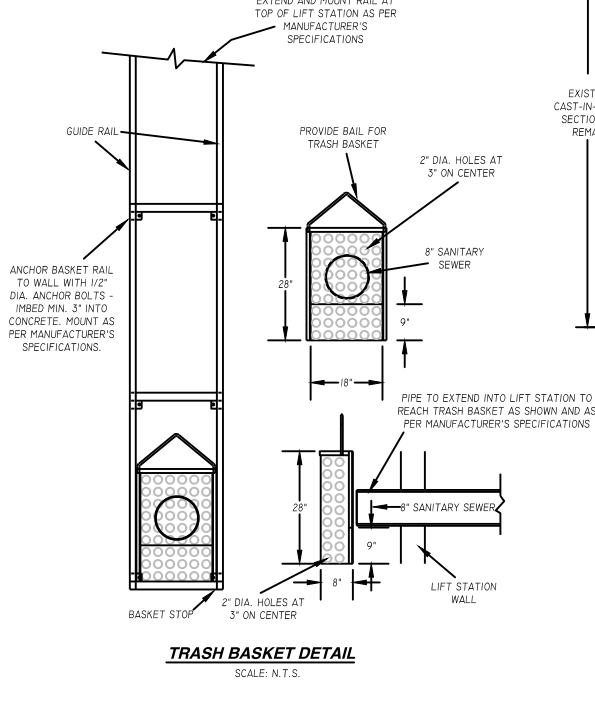
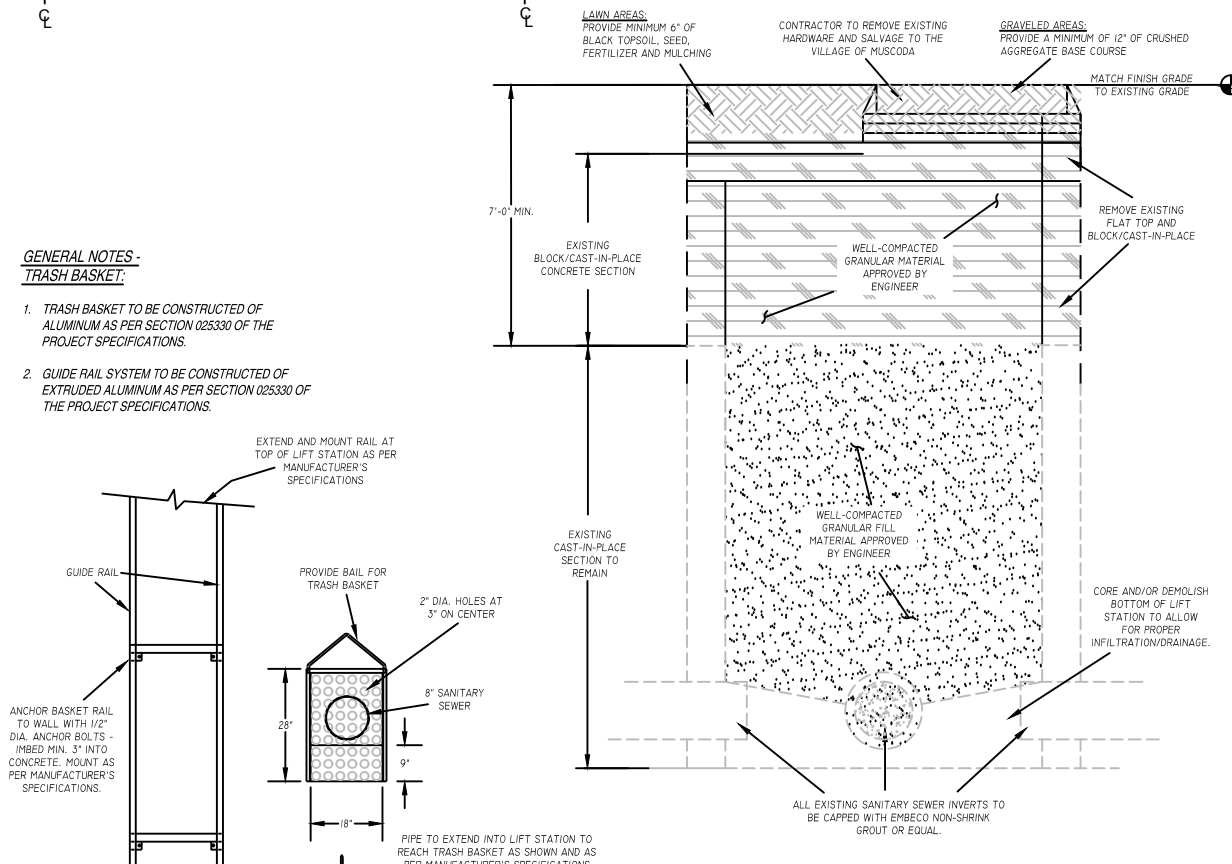
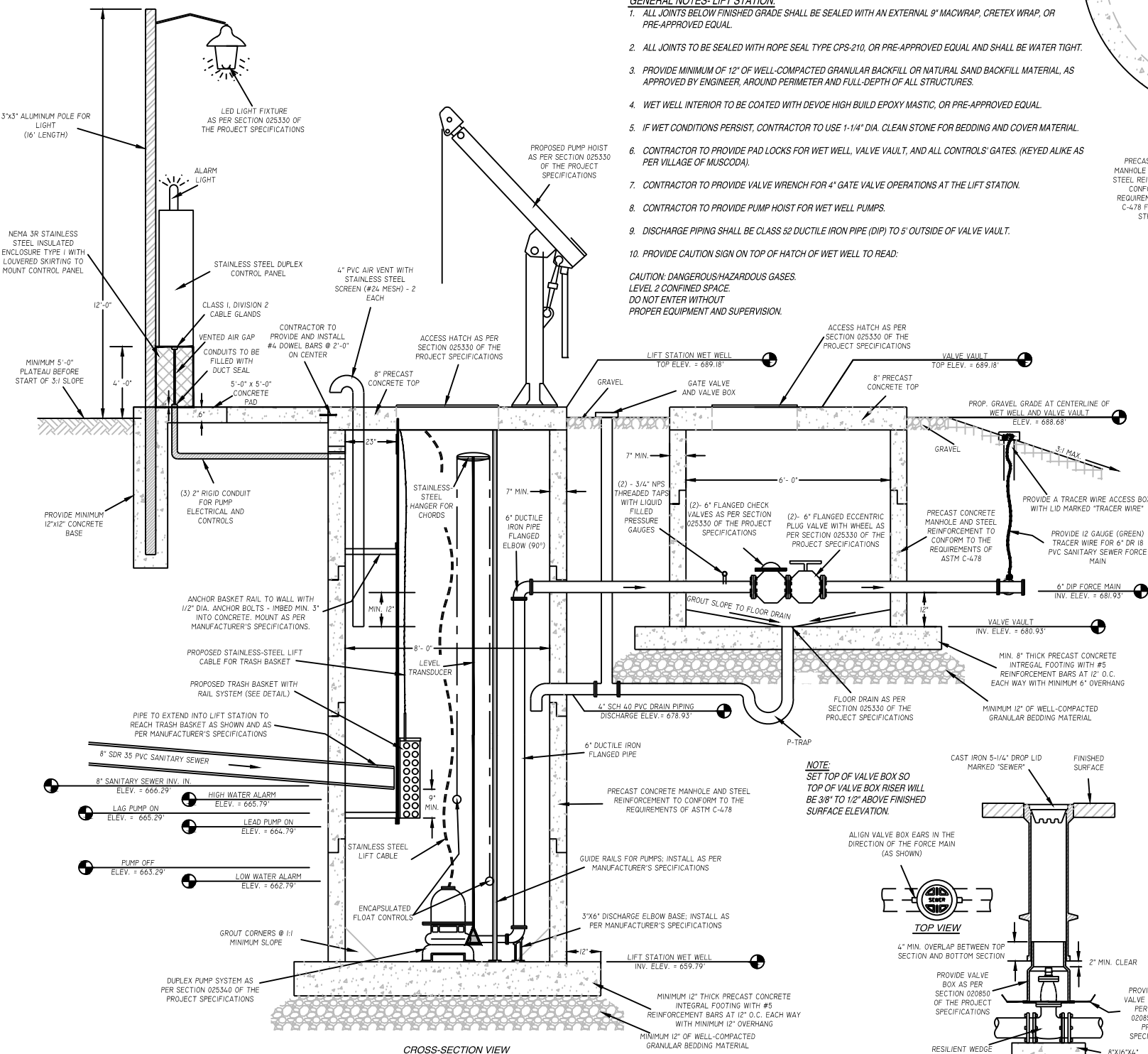


- GENERAL NOTES - CONTROL PANEL:**
1. PROVIDE 110V, 15 AMP, GROUND FAULT INTERRUPTED PROTECTED DUPLEX RECEPTACLE FOR MAINTENANCE PURPOSES.
  2. PROVIDE BREAKER SWITCH IN THE CONTROL PANEL FOR THE PROPOSED LIGHT FIXTURE.
  3. CONTRACTOR TO PROVIDE ANTENNA WITH WEATHERHEAD AND DRIP LOOP AT TOP OF LIGHT POLE.
  4. CONTRACTOR TO PROVIDE ADEQUATE PUMP AND CONTROL CABLE LENGTHS FOR TERMINATION AT LOCATION WITHIN CONTROL PANEL.
  5. ALL ELECTRICAL WORK MUST CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC). CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER ELECTRICAL SEALS AS PER NEC REGULATIONS.
  6. CONTRACTOR TO PROVIDE AUTOMATIC TRANSFER SWITCH FOR ON-SITE GENERATOR.



- GENERAL NOTES- LIFT STATION:**
1. ALL JOINTS BELOW FINISHED GRADE SHALL BE SEALED WITH AN EXTERNAL 9" MACWRAP, CRETEX WRAP, OR PRE-APPROVED EQUAL.
  2. ALL JOINTS TO BE SEALED WITH ROPE SEAL TYPE CPS-210, OR PRE-APPROVED EQUAL AND SHALL BE WATER TIGHT.
  3. PROVIDE MINIMUM OF 12" OF WELL-COMPACTED GRANULAR BACKFILL OR NATURAL SAND BACKFILL MATERIAL, AS APPROVED BY ENGINEER, AROUND PERIMETER AND FULL-DEPTH OF ALL STRUCTURES.
  4. WET WELL INTERIOR TO BE COATED WITH DEVCOE HIGH BUILD EPOXY MASTIC, OR PRE-APPROVED EQUAL.
  5. IF WET CONDITIONS PERSIST, CONTRACTOR TO USE 1-1/4" DIA. CLEAN STONE FOR BEDDING AND COVER MATERIAL.
  6. CONTRACTOR TO PROVIDE PAD LOCKS FOR WET WELL, VALVE VAULT, AND ALL CONTROLS' GATES. (KEYED ALIKE AS PER VILLAGE OF MUSCODA).
  7. CONTRACTOR TO PROVIDE VALVE WRENCH FOR 4" GATE VALVE OPERATIONS AT THE LIFT STATION.
  8. CONTRACTOR TO PROVIDE PUMP HOIST FOR WET WELL PUMPS.
  9. DISCHARGE PIPING SHALL BE CLASS 52 DUCTILE IRON PIPE (DIP) TO 5' OUTSIDE OF VALVE VAULT.
  10. PROVIDE CAUTION SIGN ON TOP OF HATCH OF WET WELL TO READ:

CAUTION: DANGEROUS/HAZARDOUS GASES  
LEVEL 2 CONFINED SPACE.  
DO NOT ENTER WITHOUT  
PROPER EQUIPMENT AND SUPERVISION.



**ENGINEER:**

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**FOR QUESTIONS  
REGARDING THIS PROJECT,  
PLEASE CONTACT:**

**MARK DIGMAN, P.E.**  
DELTA 3 ENGINEERING, INC.  
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**MUSCODA BUSINESS PARK EXPANSION**  
**EDA AWARD NUMBER: 06-79-06393**

PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'

[illegible]

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	NOT TO SCALE
DRAWN BY	C. COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	DETAILS - LIFT STATION

**SHEET TITLE:**

**C211**

**SHEET**  
**NUMBER # 31 of 41**

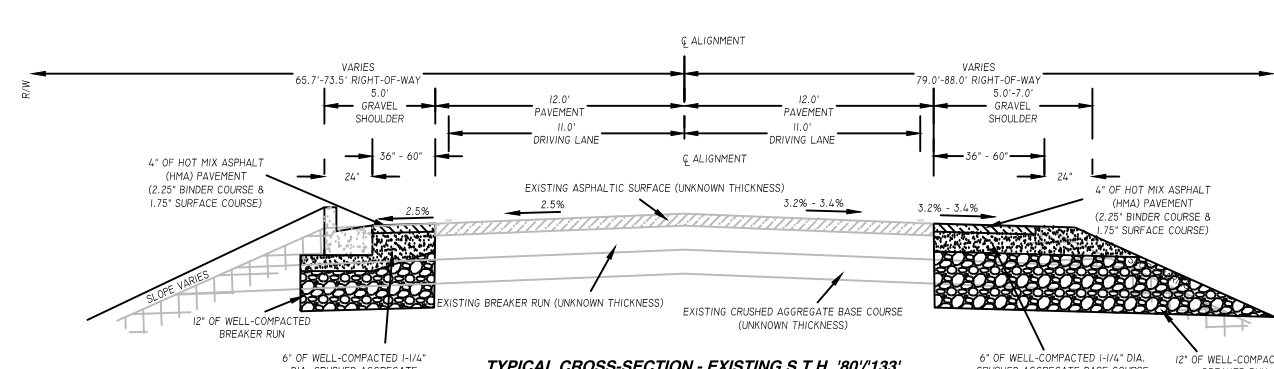
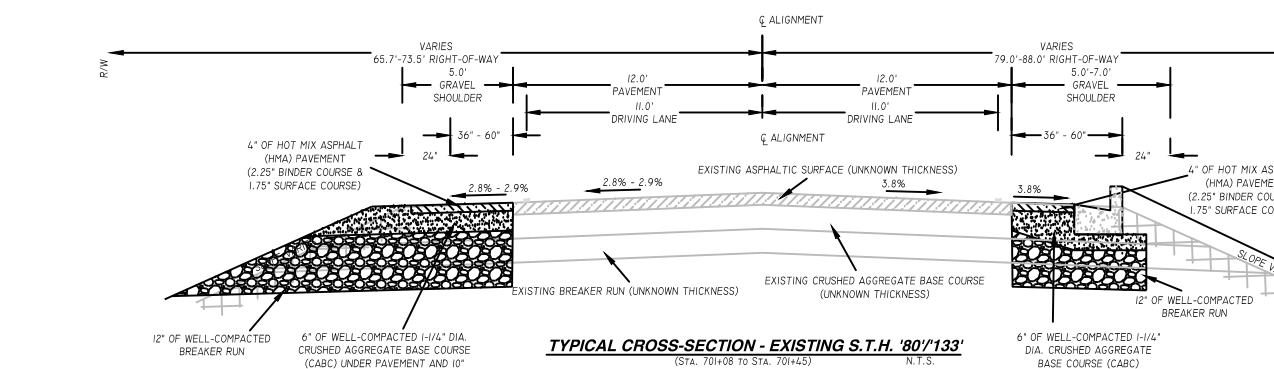
- GENERAL NOTES -**  
**EXISTING LIFT STATION ABANDONMENT:**
1. REMOVE EXISTING LIFT STATION CONTROL PANEL, PIPING, AND HARDWARE.
  2. CORE AND/OR DEMOLISH BOTTOM OF LIFT STATION TO ALLOW FOR PROPER INFILTRATION/DRAINAGE.
  3. REMOVE EXISTING LIFT STATION FLAT TOP AND BLOCK/CAST-IN-PLACE SECTION TO MIN. 7' BELOW FINISH GRADE.
  4. FILL STRUCTURE WITH CLEAN STONE.
  5. FILL AND RE-GRADE TO MATCH EXISTING SLOPES.
  6. PROVIDE LANDSCAPING AND SEEDING.



PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	NOT TO SCALE
DRAWN BY	C. COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	DETAILS - S.T.H. 80/13 TYP. CROSS-SECTION

**SHEET  
NUMBER # 32 of 41**



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PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MILSCODA · 206 N WISCONSIN AVENUE · MILSCODA WI 53573

[illegible]

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	NOT TO SCALE
DRAWN BY	C. COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	DETAILS - PAVEMENT MARKINGS

***C213***

**SHEET  
NUMBER # 33 of 41**



- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
- ③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
- ④ MOVE CLOSER TO THE EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
- ⑤ LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



 SIGN ON PERMANENT SUPPORT

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

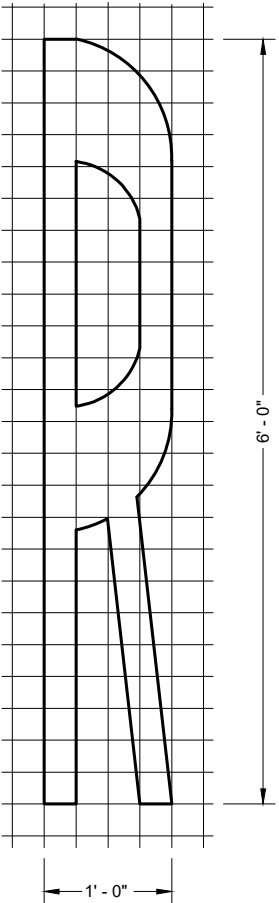
TRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

- ① PLACE STOP BAR APPROXIMATELY 8 FEET IN ADVANCE OF THE GATE (IF PRESENT), BUT NO CLOSER THAN 15 FEET IN ADVANCE OF THE NEAREST RAIL. FIELD-FIT STOP BAR TO MAXIMIZE VIEW OF APPROACHING TRAIN.
- ② 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.
- ③ FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT  
OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

POSTED SPEED (M.P.H.)	DIMENSION RANGE (FEET)
25	150 <sup>*</sup> - 250'
30	200 <sup>*</sup> - 300'
35	250 <sup>*</sup> - 450'
40	300 <sup>*</sup> - 500'
45	400 <sup>*</sup> - 650'
50	550 <sup>*</sup> - 800'
55	750 <sup>*</sup> - 1000'
60	1000 <sup>*</sup> - 1250'
65	1000 <sup>*</sup> - 1250'

\* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSED PROXIMITY OF DRIVEWAYS, BRIDGES, SIDE ROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.



PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	NOT TO SCALE
DRAWN BY	C. COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	DETAILS - PAVEMENT MARKINGS

**SHEET TITLE:**

**C214**

**SHEET**  
**NUMBER # 34 of 41**



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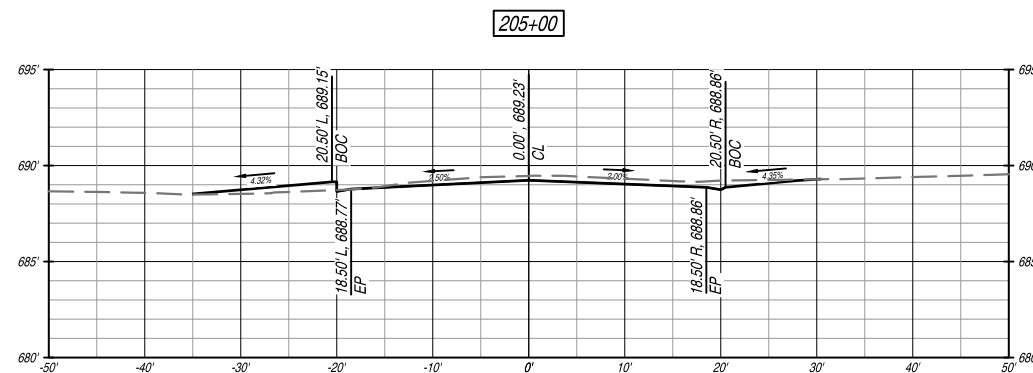
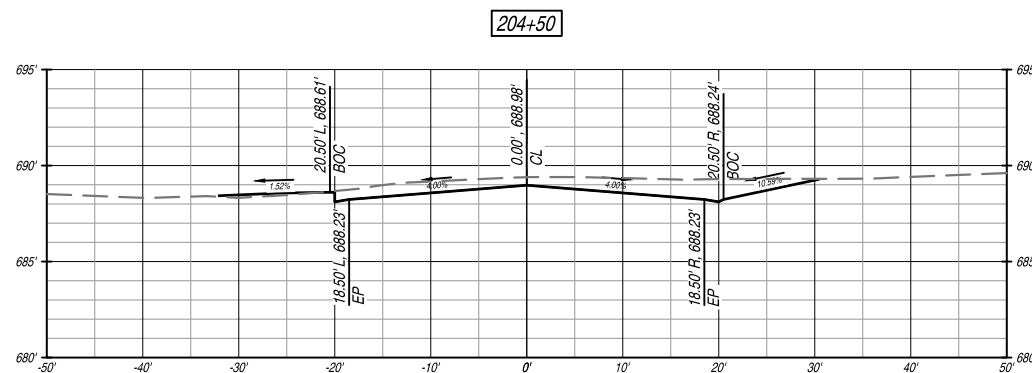
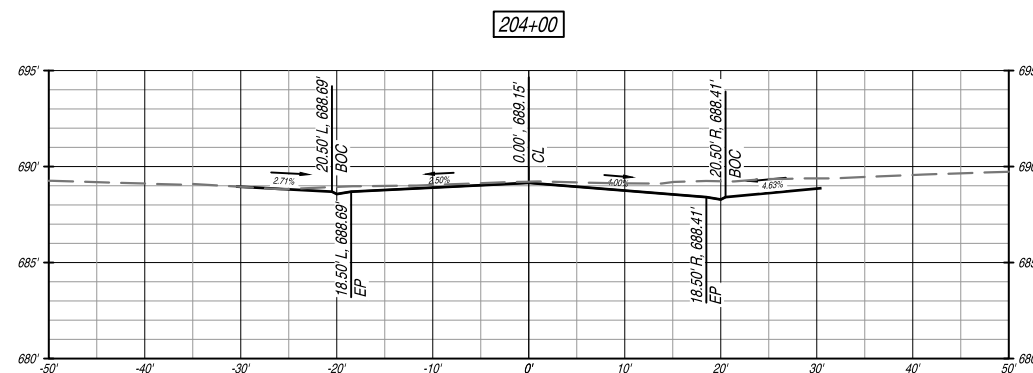
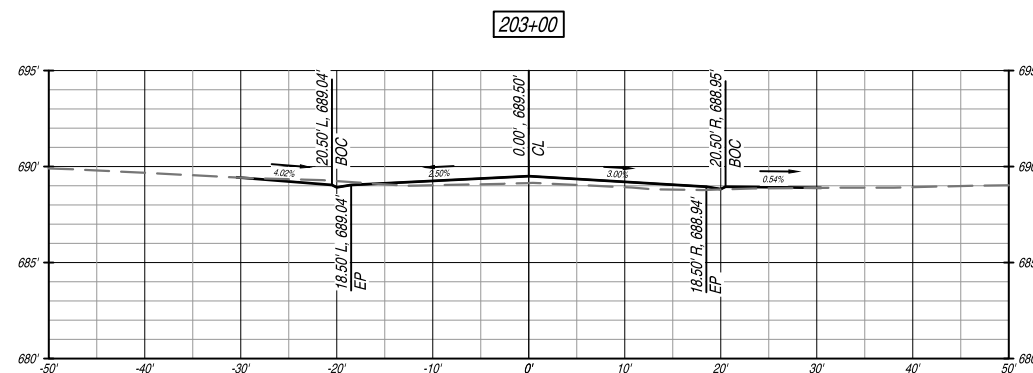
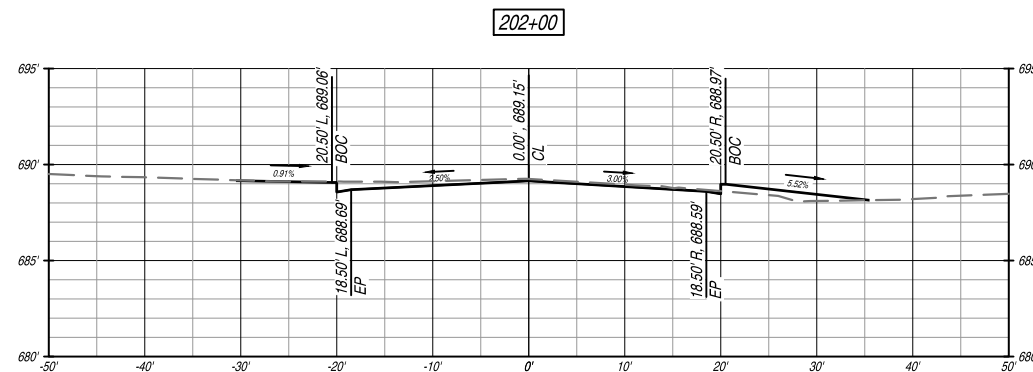
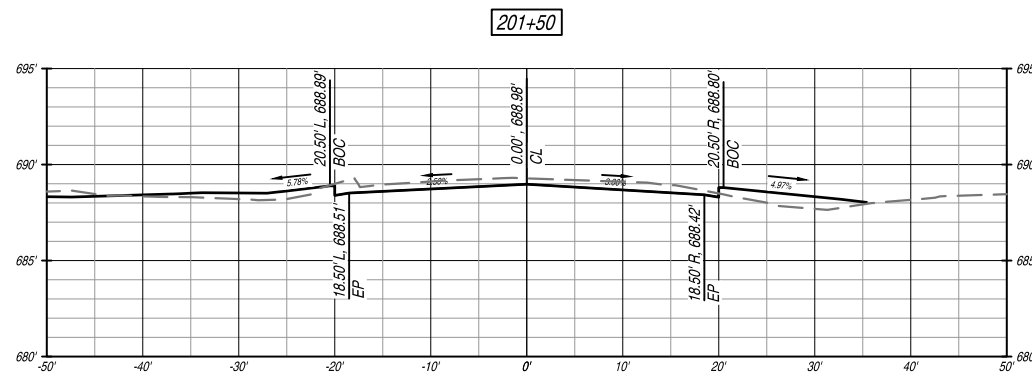
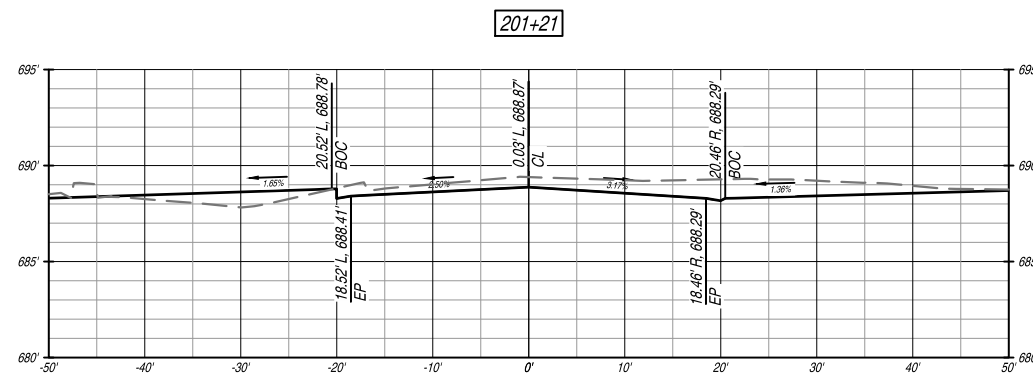
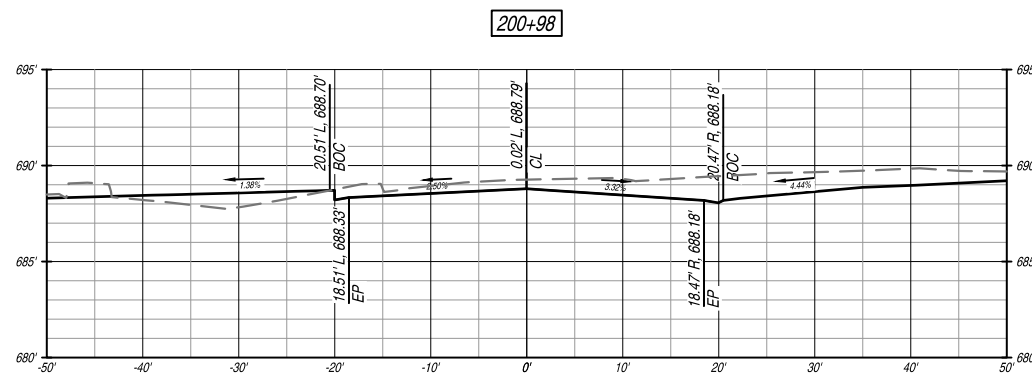
PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573

[illegible]

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	HORZ.-1"=10' VERT.-1"=5'
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	CROSS-SECTIONS - INDUSTRIAL PARK DR.

***C301***

**SHEET  
NUMBER # 35 of 41**



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DUBUQUE, IOWA 52001

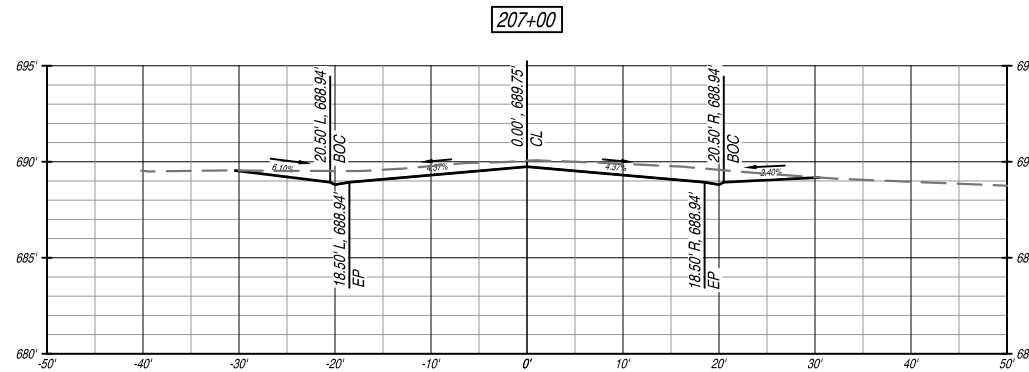
**MARK DIGMAN, P.E.**  
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TELEPHONE: (608) 348-5355

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PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	HORIZ. 1" = 10' VERT. 1" = 5'
DRAWN BY	C. COVIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	CROSS-SECTIONS - INDUSTRIAL PARK DR

**SHEET  
NUMBER # 36 of 41**



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PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	HORZ.-1"=10' VERT.-1"=5'
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	CROSS-SECTIONS - HOWARD STREET

**C303**



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DUBUQUE, IOWA 52001

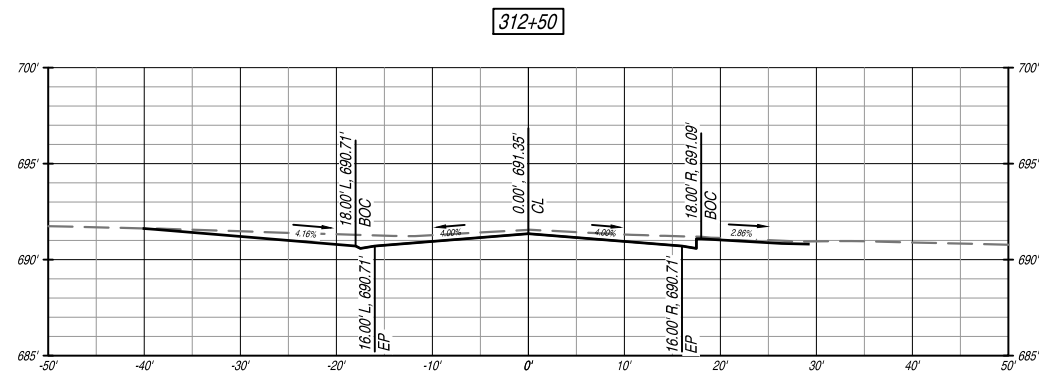
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PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	HORZ.-1"=10' VERT.-1"=5'
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	CROSS-SECTIONS - HOWARD STREET

**SHEET  
NUMBER # 38 of 41**



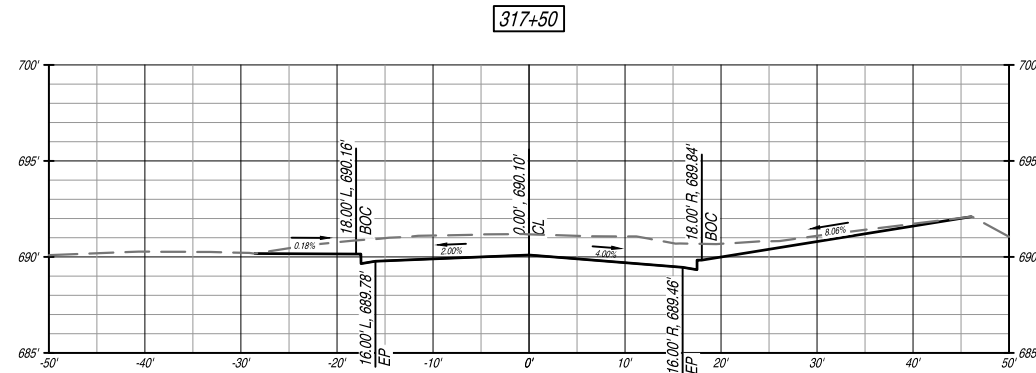
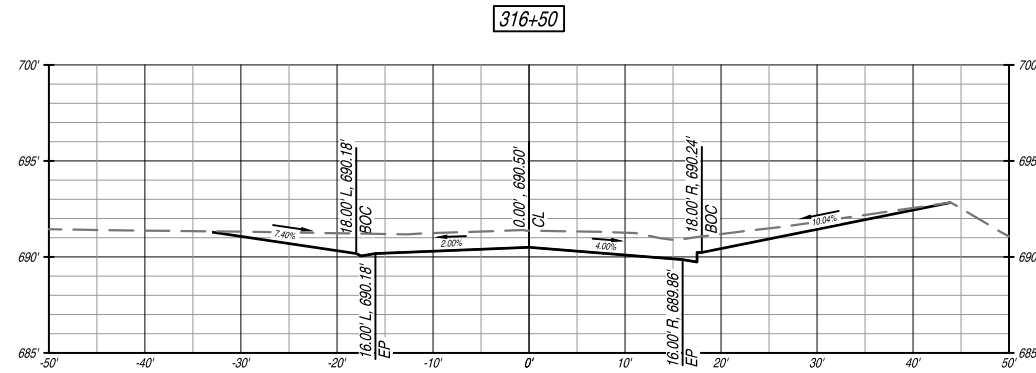
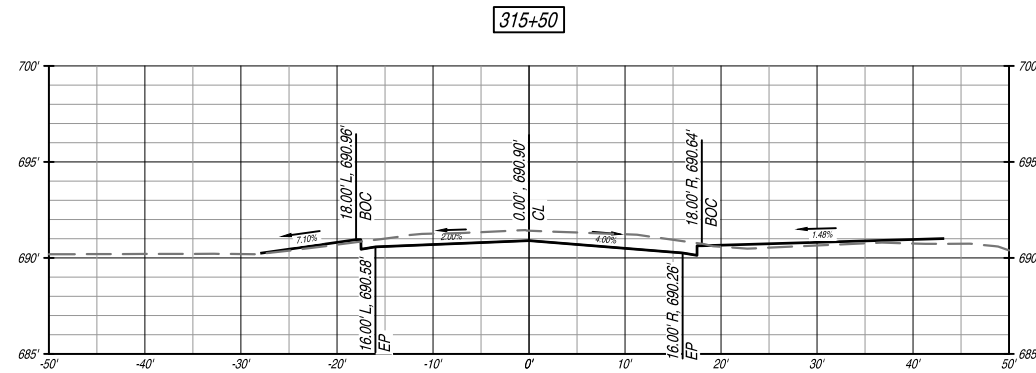
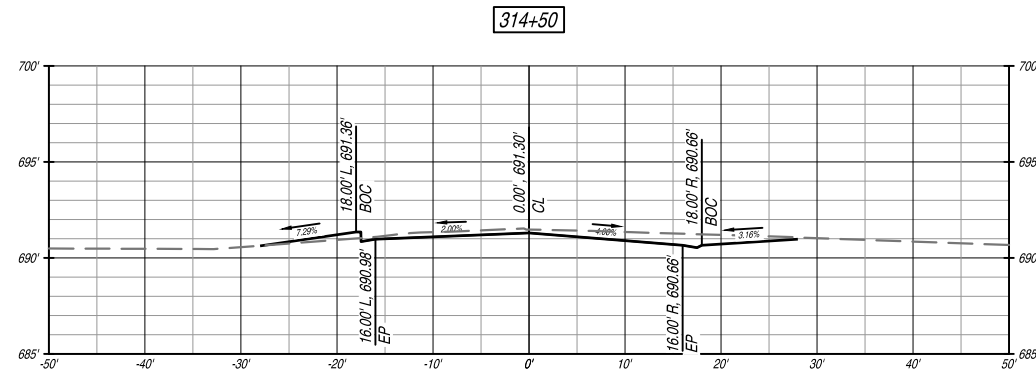
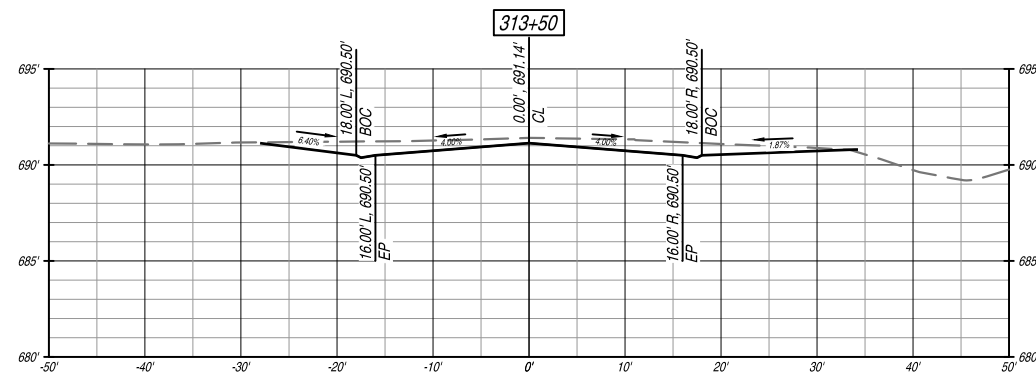
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PROJECT LOCATION: INDUSTRIAL DR., HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	HORIZ.-1"=10' VERT.-1"=5'
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	CROSS-SECTIONS - HOWARD STREET

**SHEET  
NUMBER # 39 of 41**



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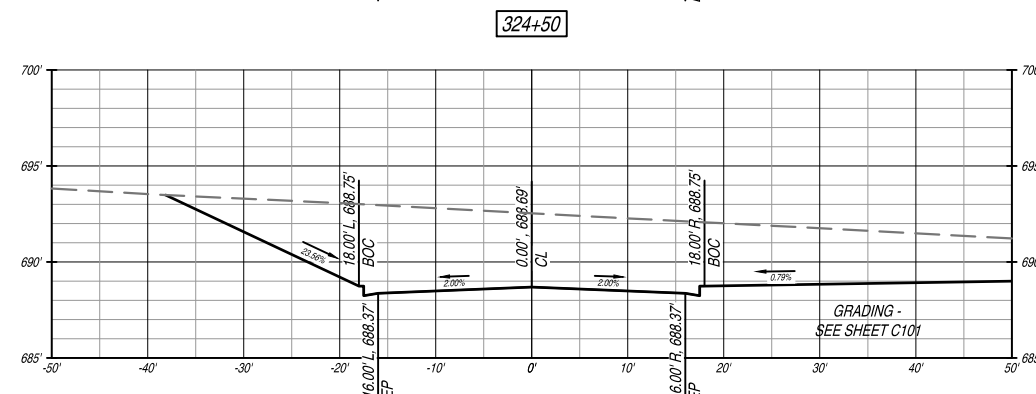
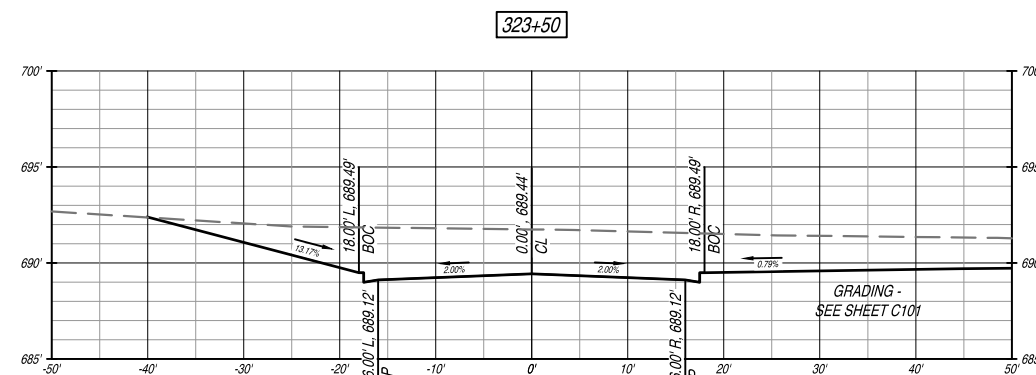
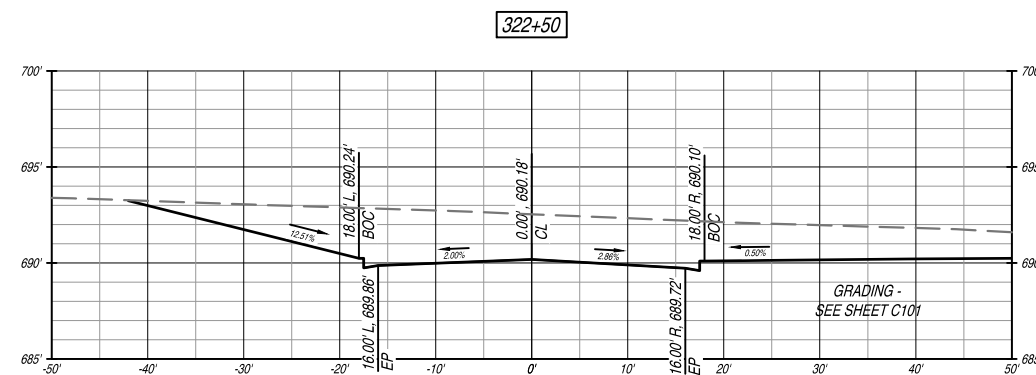
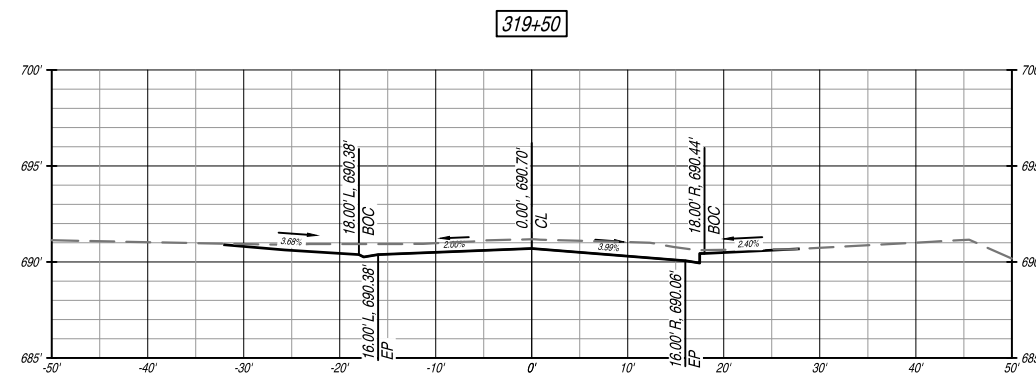
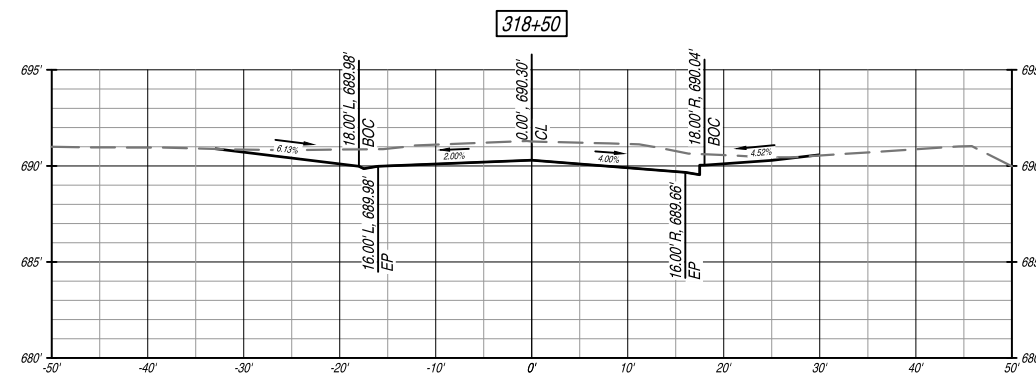
PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573

[illegible]

FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	HORZ.-1"=10' VERT.-1"=5'
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	CROSS-SECTIONS - HOWARD STREET

**C306**

**SHEET  
NUMBER # 40 of 41**





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FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	HORZ.-1"=10' VERT.-1"=5'
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	CROSS-SECTIONS - HOWARD STREET

**SHEET  
NUMBER # 41 of 41**

