



**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 WITH THE UTILITY COMPANIES AND THE "VILLAGE OF MUSCOGA" PRIOR TO STARTING ANY EXCAVATION.

HEET TITLE:

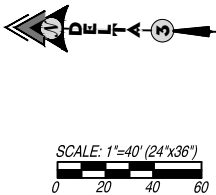
**G000**

HEET  
BER# 01 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

\*NOTE: IT IS ANTICIPATED THAT THE GROUNDWATER ELEVATION FOR THE PROJECT SITE IS 676.00'.

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

*\*NOTE: IT IS ANTICIPATED THAT THE GROUNDWATER ELEVATION FOR THE PROJECT SITE IS 676.00'.*

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**

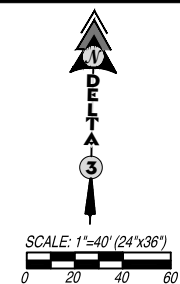












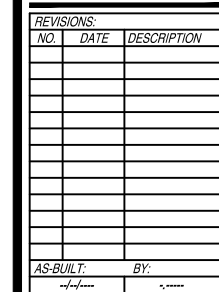
**FOR QUESTIONS  
REGARDING THIS PROJECT,  
PLEASE CONTACT:**

**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'  
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

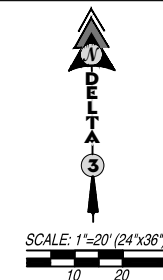
**SHEET TITLE:**

**C104**

**SHEET  
NUMBER # 06 of 41**



BENCH MARK TABLE			
BM NO.	DESCRIPTION	LOCATION	ELEVATION
BM #1	TOP NUT OF FIRE HYDRANT 89	WEST SIDE OF INDUSTRIAL DRIVE AND EIGHTH STREET INTERSECTION	692.04'
BM #2	TOP NUT OF FIRE HYDRANT 91	SOUTHEAST CORNER OF INDUSTRIAL DRIVE AND HOWARD STREET INTERSECTION	692.98'



**ENGINEER:**

 **DELTA 3**  
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PLATEVILLE, WISCONSIN 53181

898 JACKSON STREET      PHONE: (563) 542-9005  
DURAND, ILL. 60011

FOR QUESTIONS  
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**MUSCODO BUSINESS PARK EXPANSION**  
**EDA AWARD NUMBER: 06-79-06393**

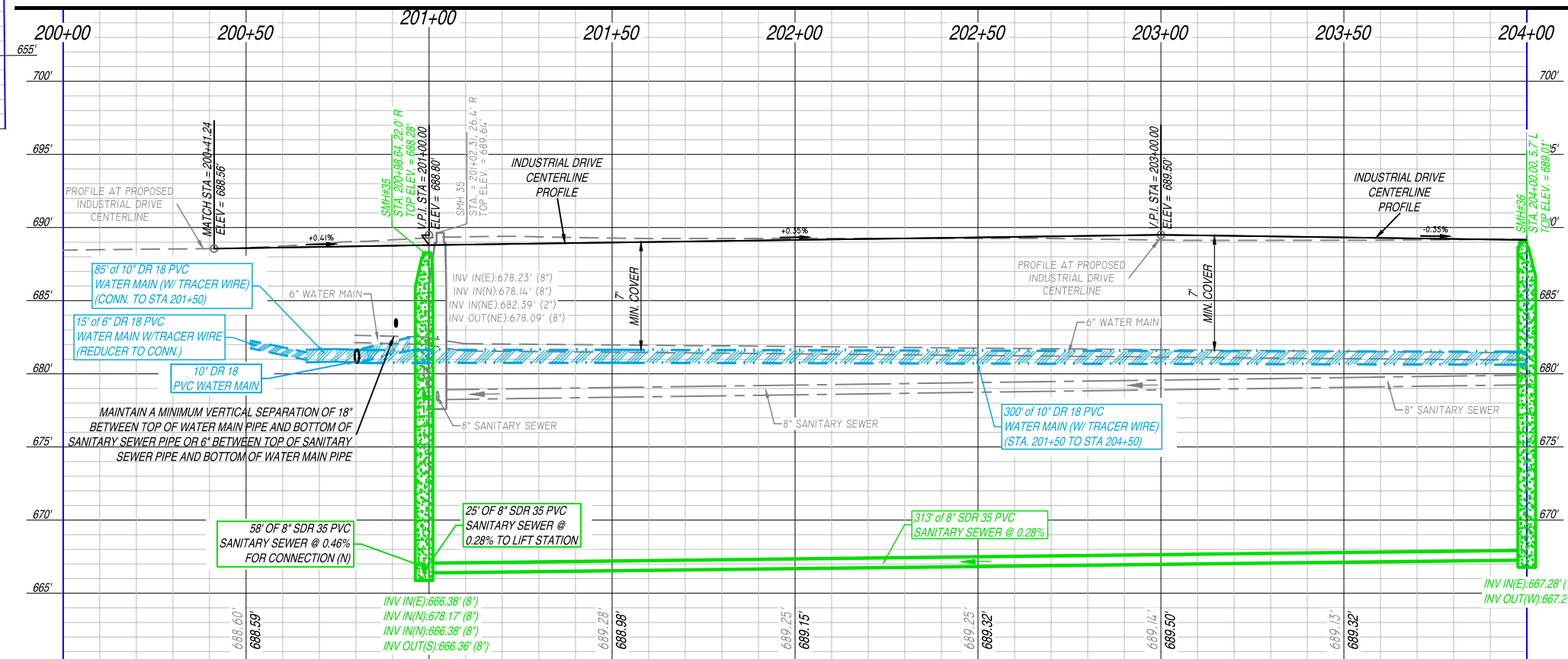
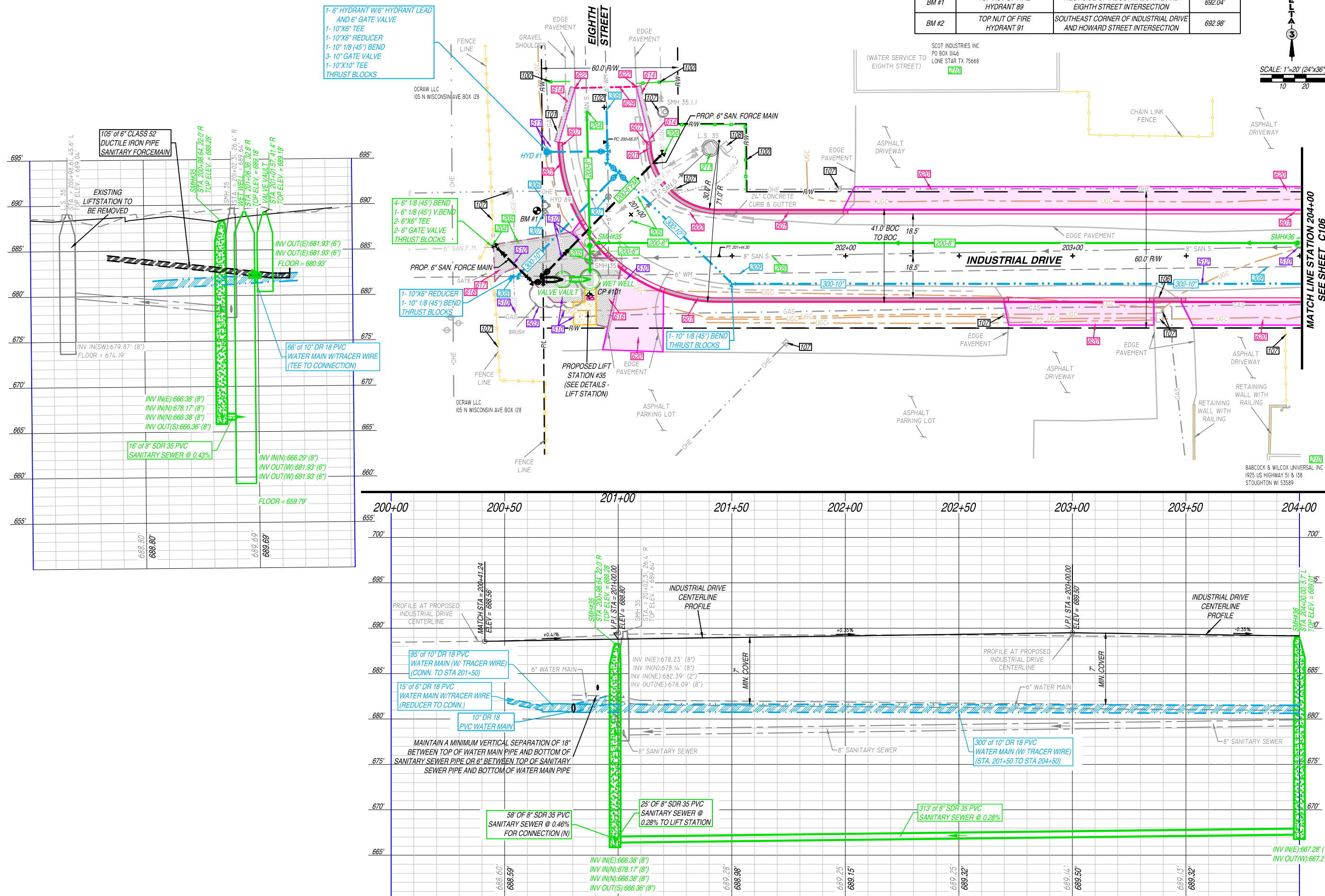
PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'

[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 - INDUSTRIAL DRIVE

**SHEET TITLE:**  
**C105**

**SHEET**  
**NUMBER # 07 of 41**





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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

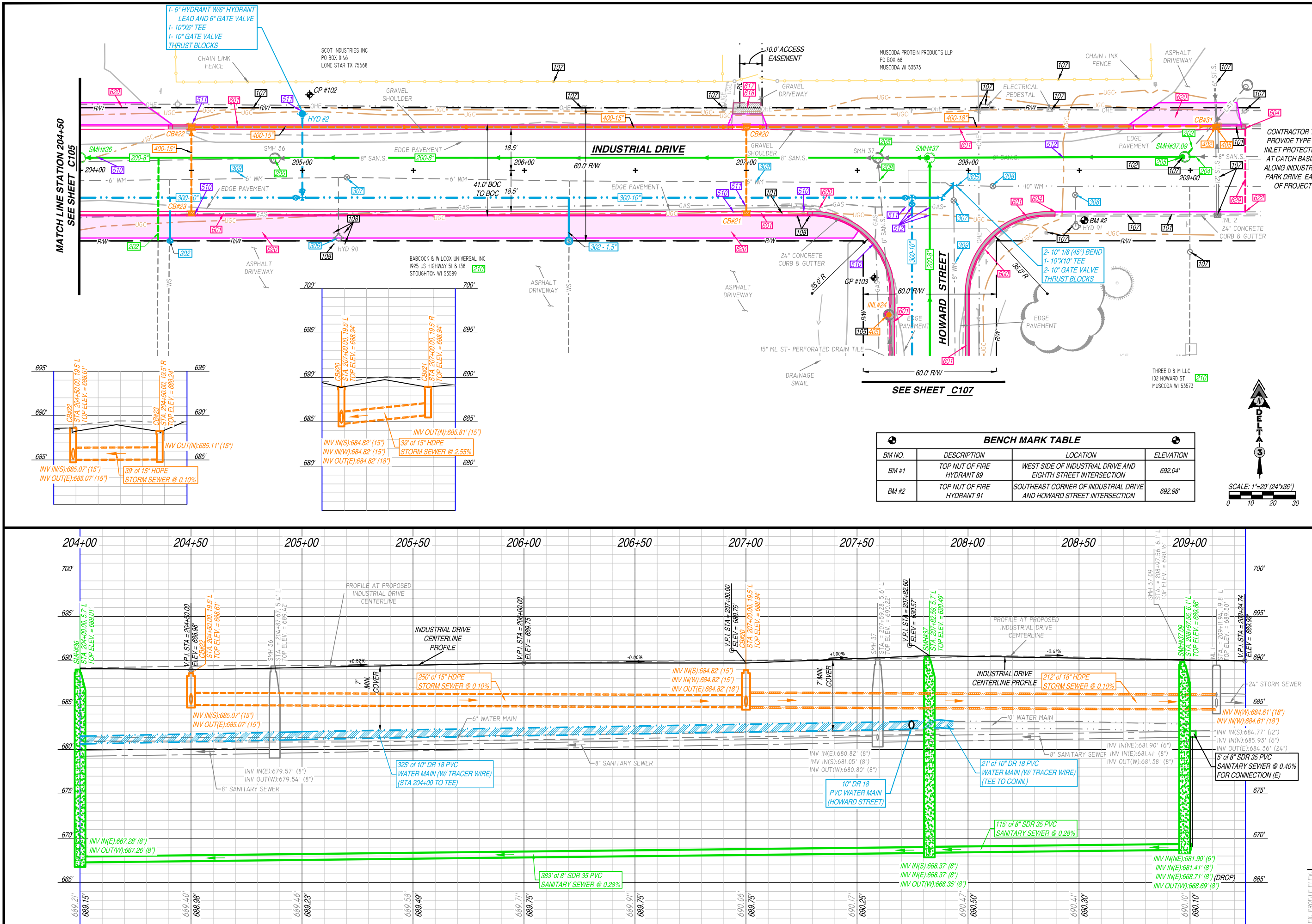
REVISIONS:		
NO.	DATE	DESCRIPTION

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

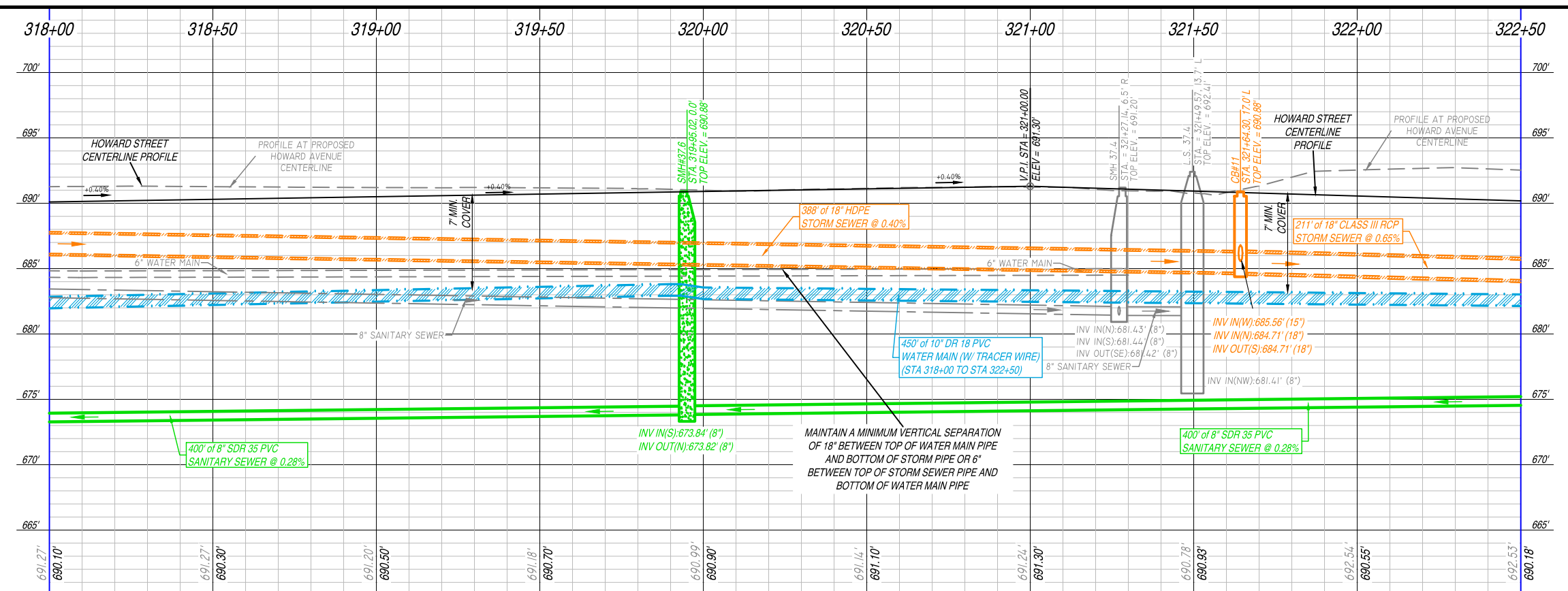
Profile view of a 15' CLASS III RCP STORM SEWER @ 0.10% slope.

Key data points:

- CB#11: STA. 321+64.30, 17.0' L, TOP ELEV. = 690.88', INV IN(W): 685.56' (15"), INV IN(N): 684.71' (18"), INV OUT(S): 684.71' (18")
- CB#12: STA. 321+63.38, 82.8' R, TOP ELEV. = 689.29', INV IN(N): 685.66' (15"), INV OUT(E): 685.66' (15")

Ground surface elevations: 695', 690', 685', 680'.

Horizontal axis labels: 691.24', 691.08'.

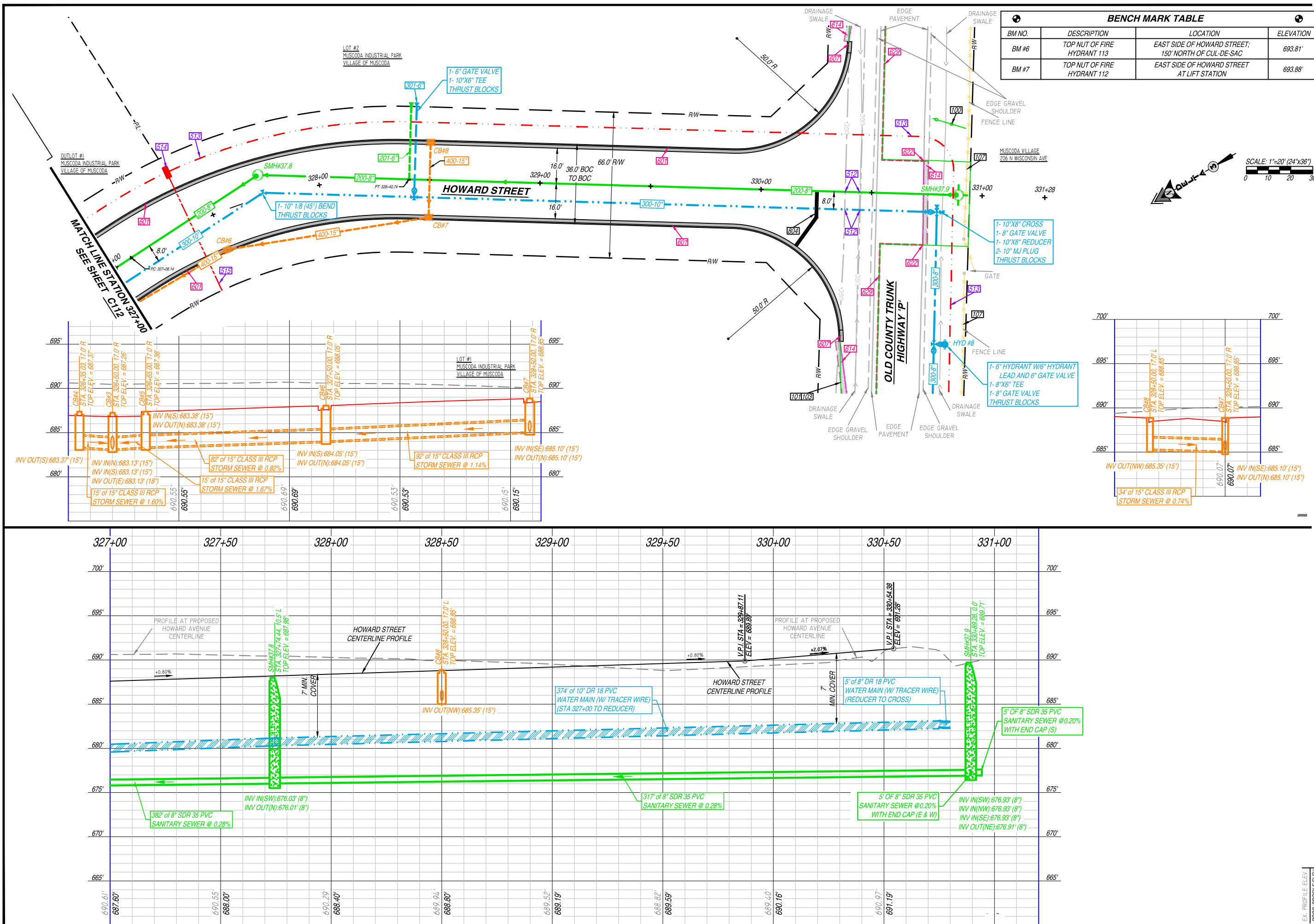


FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	SEE BAR SCALE
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	PLAN & PROFILE - HOWARD STREET

**SHEET**  
**NUMBER # 13 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,  
PLEASE CONTACT:

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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**

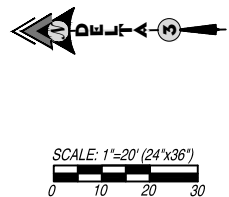








MUSCODA PROTEIN F  
PO BOX 68  
MUSCODA WI 53573



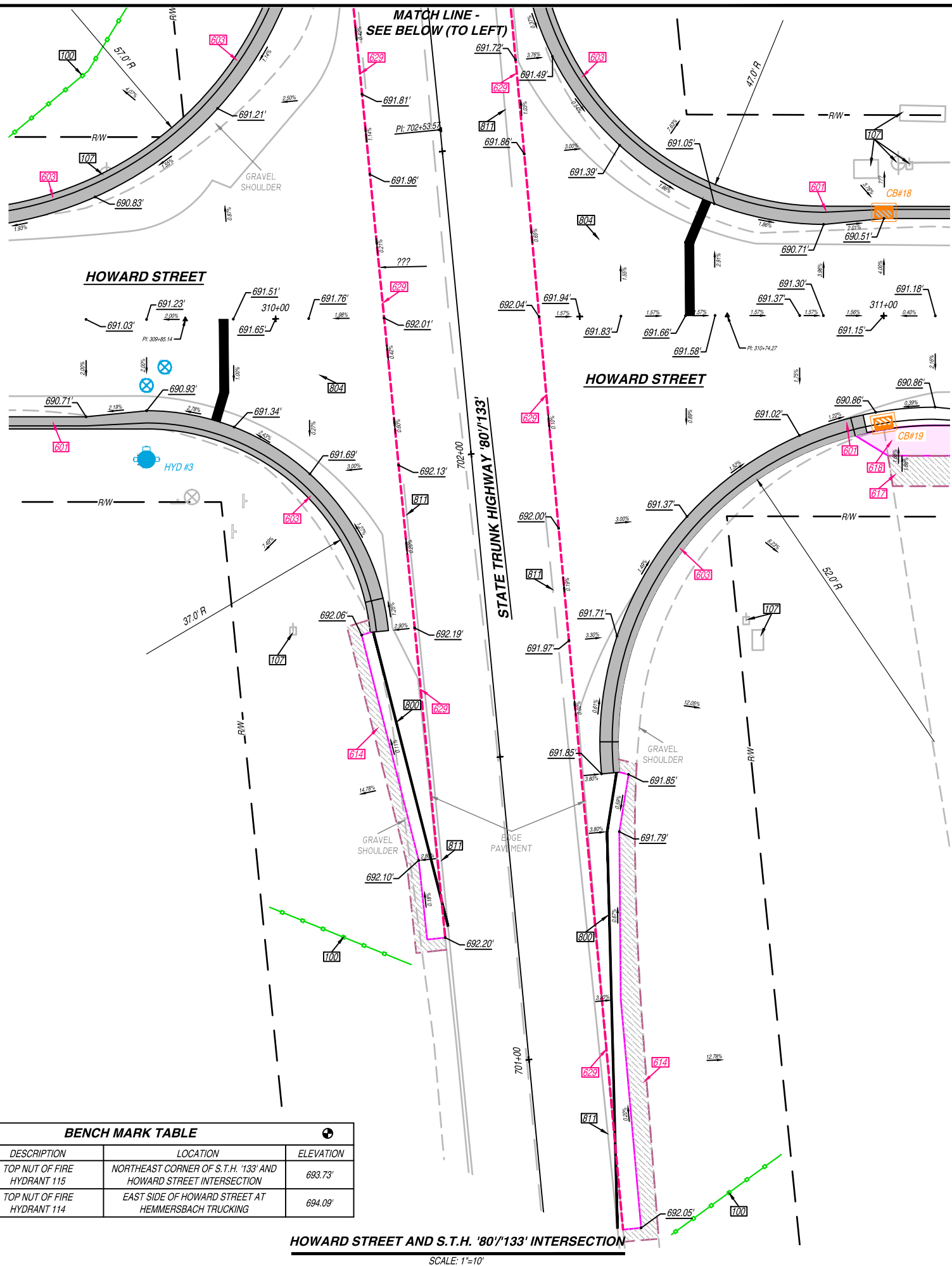
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PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573


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

**SHEET  
NUMBER # 18 of 41**





**ENGINEER:**

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**MUSCODA BUSINESS PARK EXPANSION**  
**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**









**SHEET  
NUMBER # 22 of 41**





**SHEET  
NUMBER # 24 of 41**



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\* NOTE: CASTING TO BE NEENAH, NON-ROCKING CASTING WITH A SELF SEALING, TYPE "B" LID WITH SEALED PICK HOLES



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

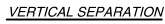
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FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	NOT TO SCALE
DRAWN BY	C.COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	DETAILS - SANITARY SEWER SYSTEM

**C205**



***HORIZONTAL SEPARATION***

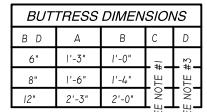
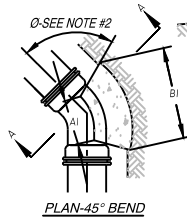


**WATER MAIN SEPARATION DETAIL**  
(PER NR 811.67) SCALE: N.T.S.



**BUTTRESS FOR BENDS**  
SCALE: N.T.S.

A cross-sectional diagram of a pipe joint. The pipe is shown with a 90° angle at the joint. The bedding material is indicated by a hatched pattern. Labels include: 'C1 C2 C3' for the top bedding layer, 'POURED UNDIS' for the material being poured, 'BEDDING MATERIAL' for the base layer, 'DI D2' for the pipe diameter, and '90°' for the joint angle. A note states: 'APPROXIMATE 1:1 SLOPE WHERE DEPTH BELOW PIPE EXCEEDS 6"'. Another note indicates 'CONCRETE IN CONTACT WITH SURFACE OF PIPE. (A)'.

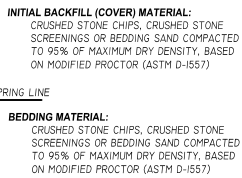


1. DIMENSION 'C' SHOULD BE LARGE ENOUGH TO MAKE ANGLE  $\theta$  EQUAL TO OR LARGER THAN  $45^\circ$ .
2. DIMENSION 'D' EQUALS APPROX. 1.D. OF PIPE LESS 2". AN EFFORT SHOULD BE MADE TO PREVENT THE CONCRETE FROM COVERING THE M.J. BOLTS.
3. WHERE BUTTRESSES ARE NOT POSSIBLE BECAUSE OF POOR SOIL CONDITIONS OR LACK OF ROOM, STRAPPING SHALL BE PERMITTED.
4. BUTTRESS DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 PSI.

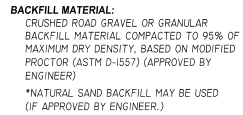
**BUTTRESS FOR DEAD ENDS**  
SCALE: N.T.S.



**STORM PIPE CROSSING INSULATION DETAIL**  
SCALE: N.T.S.



**TYPICAL TRENCH AND BEDDING DETAIL - WATER MAIN**  
(NOT LOCATED UNDER STREET, PARKING LOT, ETC.)  
SCALE: N.T.S.



**TYPICAL TRENCH AND BEDDING DETAIL - WATER MAIN**  
(LOCATED UNDER STREET, PARKING LOT, ETC.)  
SCALE: N.T.S.

**FIRE HYDRANT ASSEMBLY DETAIL**  
SCALE: N.T.S.

[illegible]

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

**SHEET TITLE:**

**C206**

**SHEET**  
**NUMBER # 26 of 41**

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

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

ENGINEER:

**DELTA 3**  
EVERY ANGLE COVERED

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DUBUQUE, IOWA 52001

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

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

### CONSENT STATEMENT

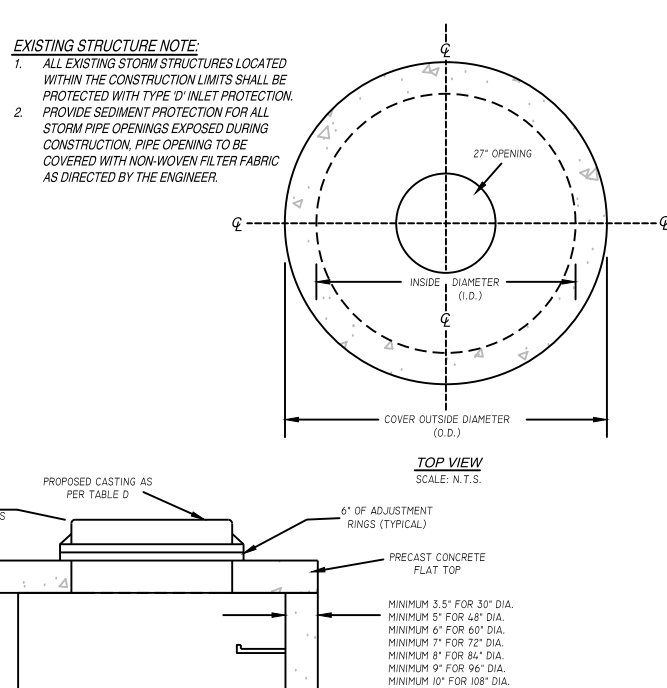
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1. ALL EXISTING STORM STRUCTURES LOCATED WITHIN THE CONSTRUCTION LIMITS SHALL BE PROTECTED WITH TYPE 'D' INLET PROTECTION.
2. PROVIDE SEDIMENT PROTECTION FOR ALL STORM PIPE OPENINGS EXPOSED DURING CONSTRUCTION, PIPE OPENING TO BE COVERED WITH NON-WOVEN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

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MATEWILLE, WISCONSIN 53818

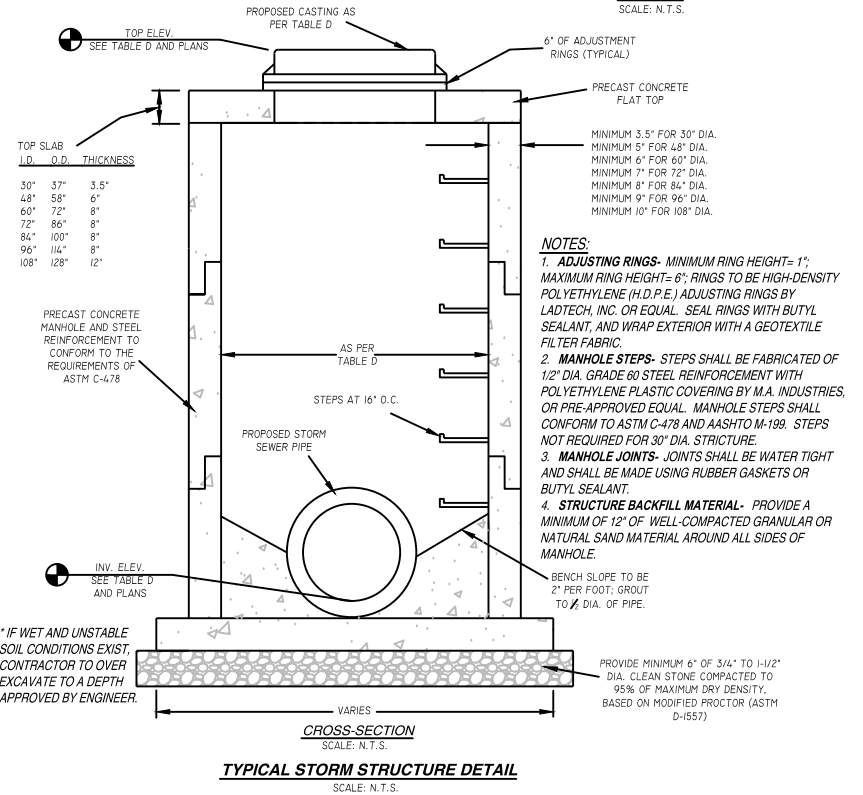
18 JACKSON STREET PHONE: (563) 542-9005  
BLOOMINGDALE, ILLINOIS 60011

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ALTA 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 53573



**1. ADJUSTING RINGS-** MINIMUM RING HEIGHT= 1"; MAXIMUM RING HEIGHT= 6"; RINGS TO BE HIGH-DENSITY POLYETHYLENE (H.D.P.E.) ADJUSTING RINGS BY LADTECH, INC. OR EQUAL. SEAL RINGS WITH BUTYL SEALANT, AND WRAP EXTERIOR WITH A GEOTEXTILE FILTER FABRIC.

2. **MANHOLE STEPS**- STEPS SHALL BE FABRICATED OF 1 1/2" DIA. GRADE 60 STEEL REINFORCEMENT WITH POLYETHYLENE PLASTIC COVERING BY M.A. INDUSTRIES, OR PRE-APPROVED EQUIV. 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.

Diagram illustrating the construction of a trench for a pipe. The trench is 2 feet wide and 1 foot deep. The bottom is compacted stone, 6 inches thick. The sides are 2 feet high and 2 feet wide. The top is 2 feet wide. The bottom is 2 feet wide. The diagram is labeled with dimensions and material specifications.

BENCH SLOPE TO BE 2" PER FOOT; GROUT TO 1/2" DIA. OF PIPE.

PROVIDE MINIMUM 6" OF 3/4" TO 1-1/2" DIA. CLEAN STONE COMPACTED TO 95% OF MAXIMUM DRY DENSITY, BASED ON MODIFIED PROCTOR (ASTM D-1557)

1. **ADJUSTING RINGS:** MINIMUM RING HEIGHT= 1" MAXIMUM RING HEIGHT= 6" RINGS TO BE HIGH-DENSITY POLYETHYLENE (H.D.P.E.) SEALING RINGS BY LADOTECH, INC. OR EQUIVALENT. SEAL RINGS WITH BUTYL SEALANT, AND WRAP EXTERIOR WITH A GEOTEXTILE FILTER FABRIC.

2. **MANHOLE STEPS:** STEPS SHALL BE FABRICATED OF 12" DIA. GRADE 60 STEEL REINFORCEMENT WITH POLYETHYLENE PLASTIC COVERING BY M.A. INDUSTRIES, OR PRE-APPROVED EQUIVALENT. 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]

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

209

**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'

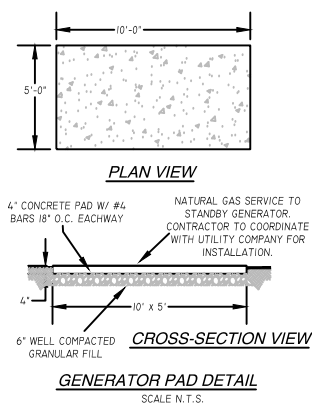
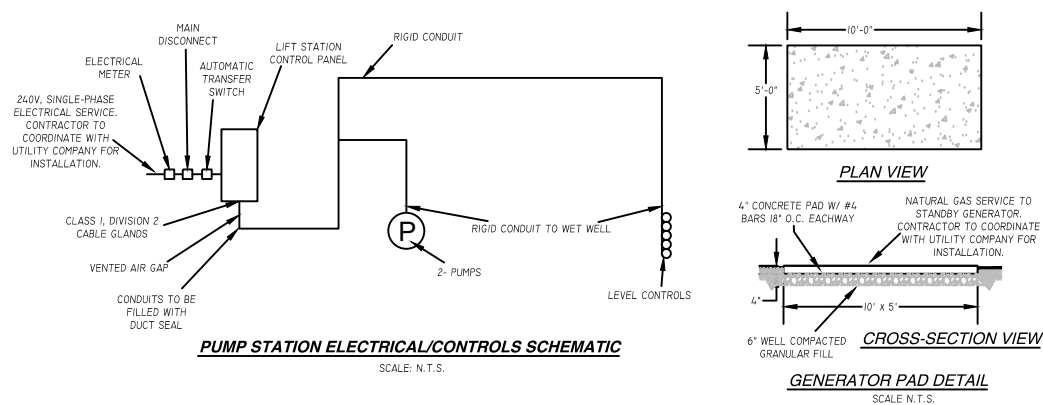


FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	NOT TO SCALE
DRAWN BY	C. COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	DETAILS - STREET

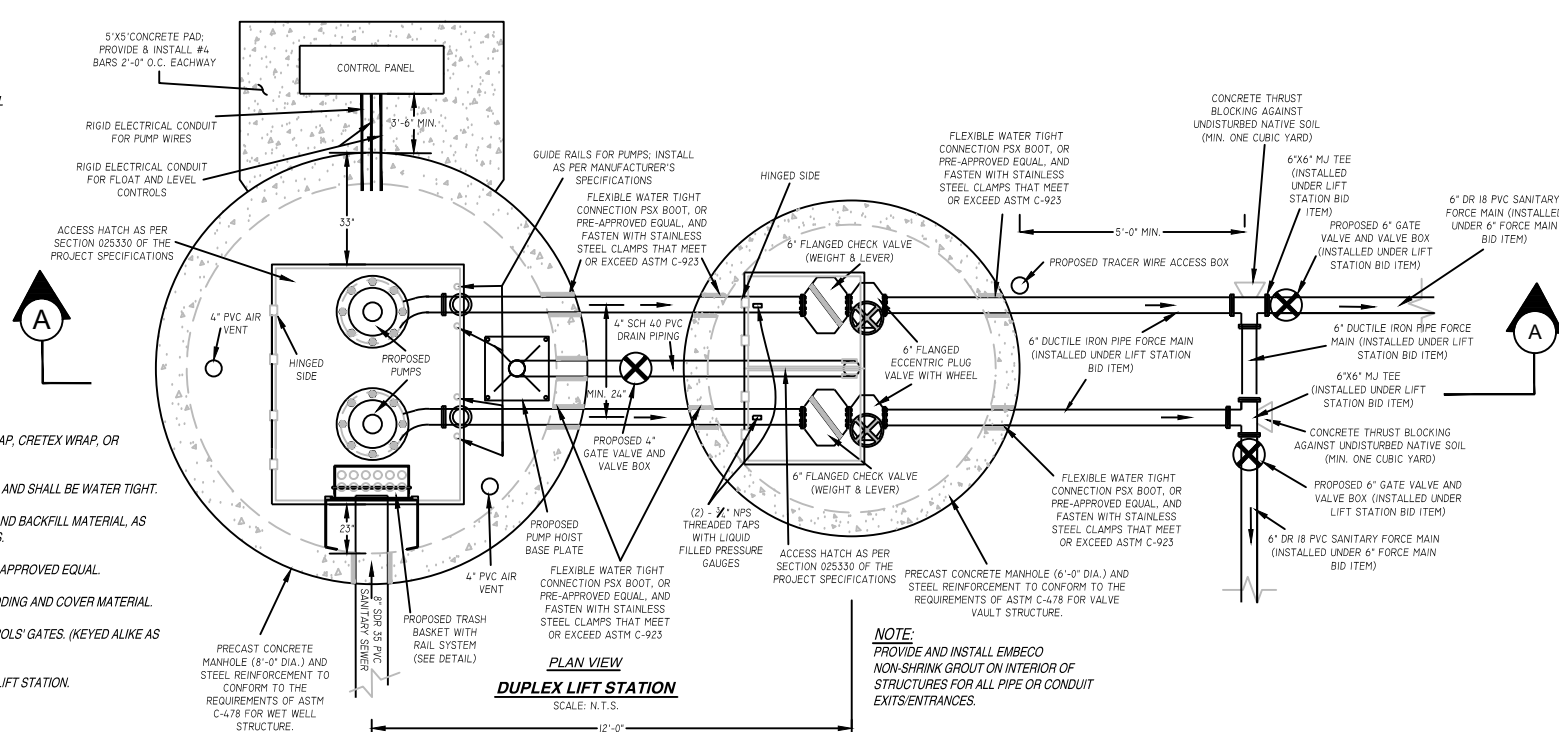
**C210**

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



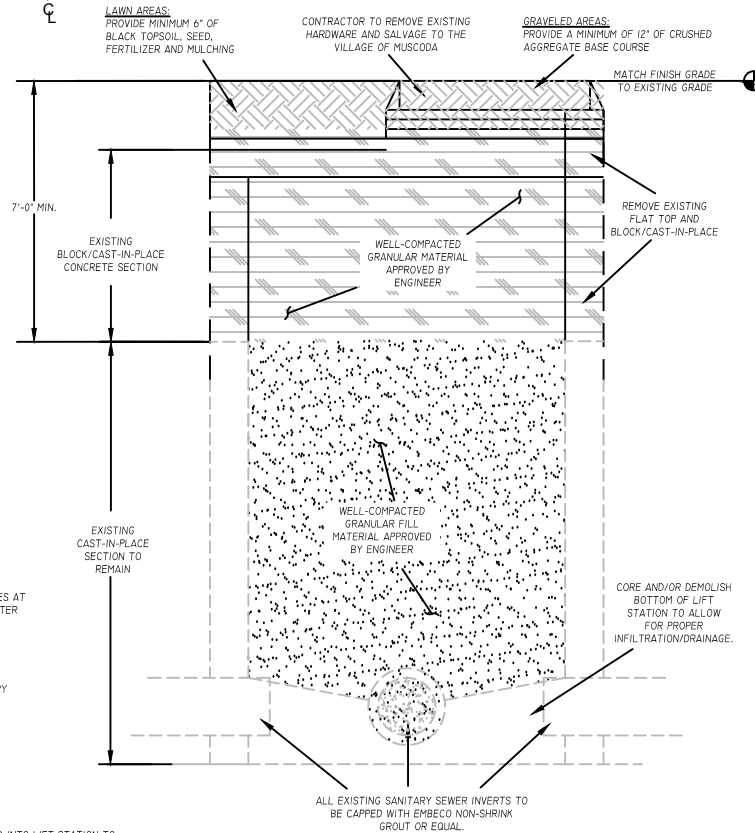
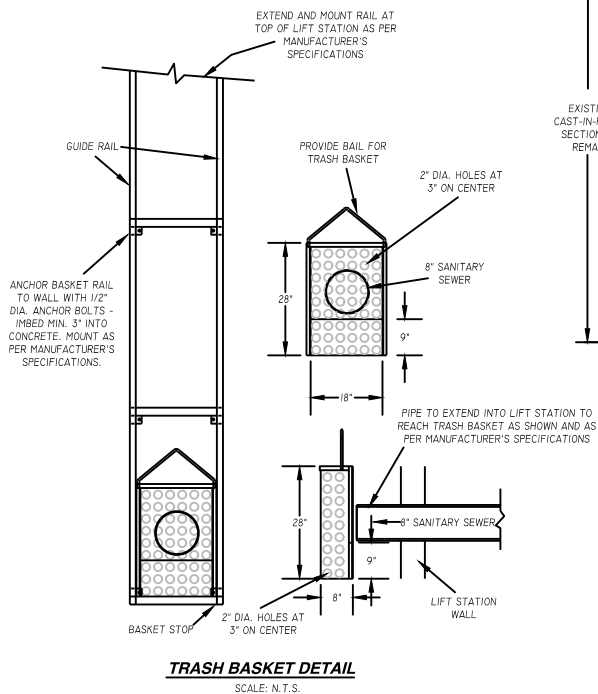
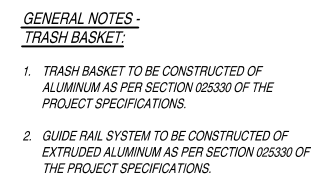
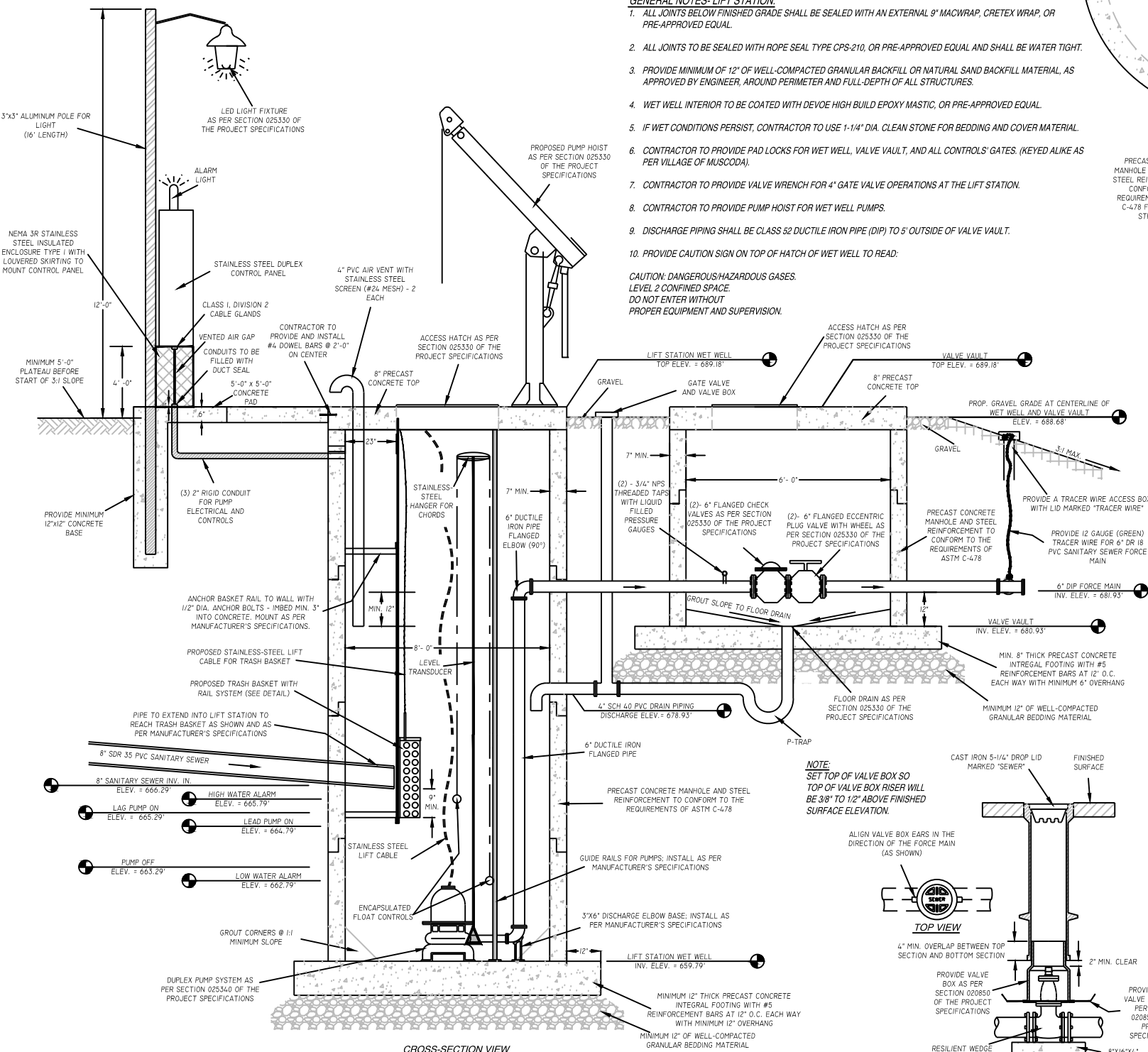


- GENERAL NOTES - CONTROL PANEL:**
1. PROVIDE 110V, 15 AMP, GROUND FAULT INTERRUPTED PROTECTED DUPLEX RECEPTACLE FOR MAINTENANCE PURPOSES.
  2. PROVIDE BREAKER SWITCH IN THE CONTROL PANEL FOR THE PROPOSED LIGHT FIXTURE.
  3. CONTRACTOR TO PROVIDE ANTENNA WITH WEATHERHEAD AND DRIP LOOP AT TOP OF LIGHT 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 MUSCODOA).
  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.**



- 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.

**ENGINEER:**

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

**MARK DIGMAN, P.E.**  
DELTA 3 ENGINEERING, INC.  
TELEPHONE: (608) 348-5353

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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 MILSCOTA, 206 N. WISCONSIN AVENUE, MILSCOTA, 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 - LIFT STATION

**SHEET TITLE:**

***C211***

**SHEET  
NUMBER # 31 of 41**

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

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

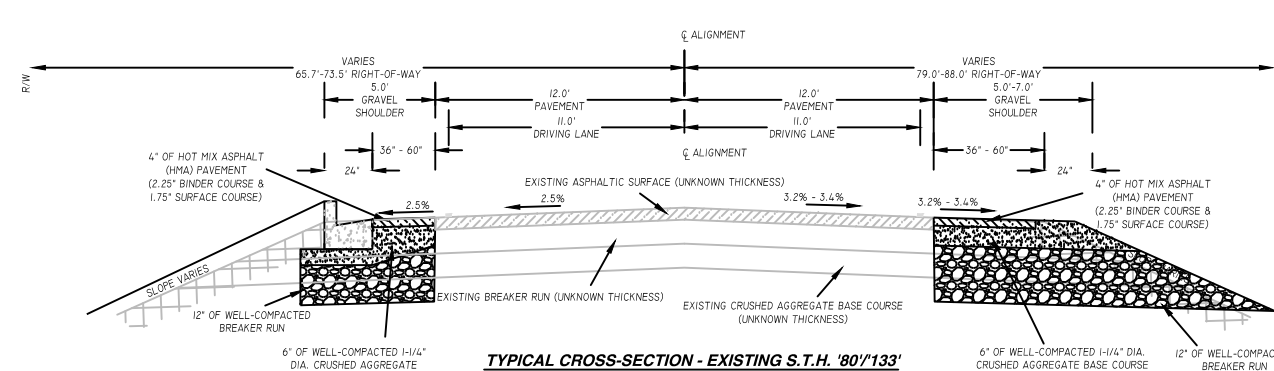
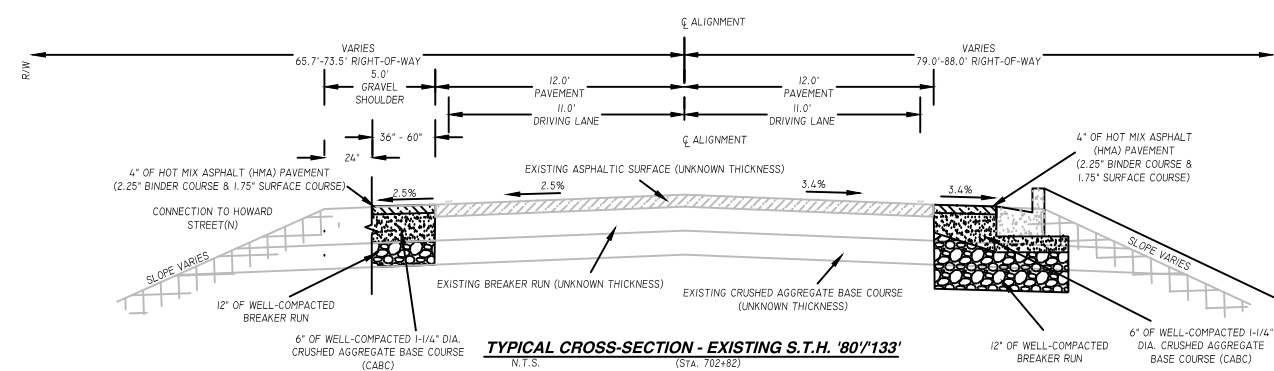
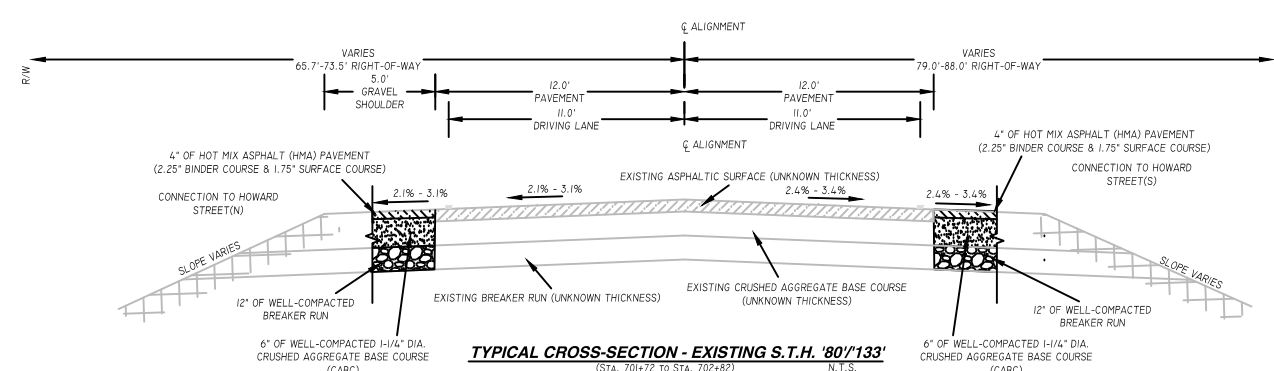
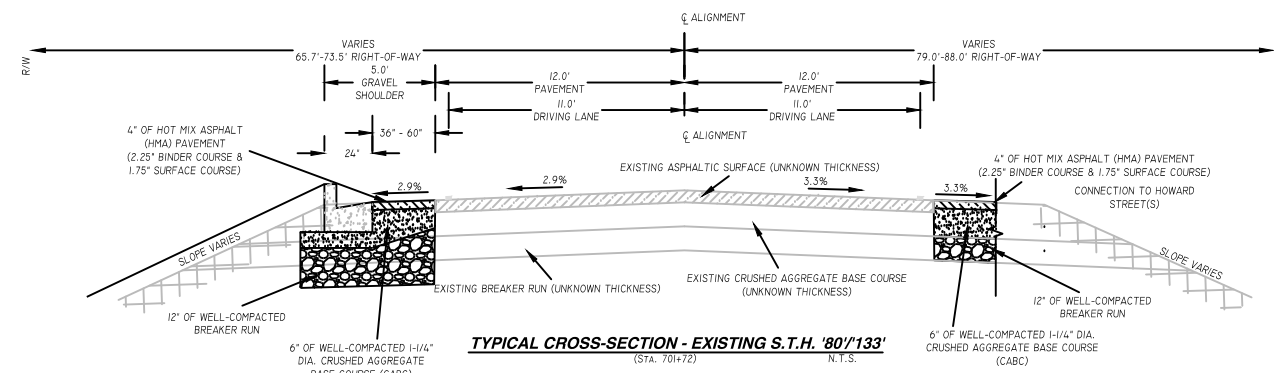
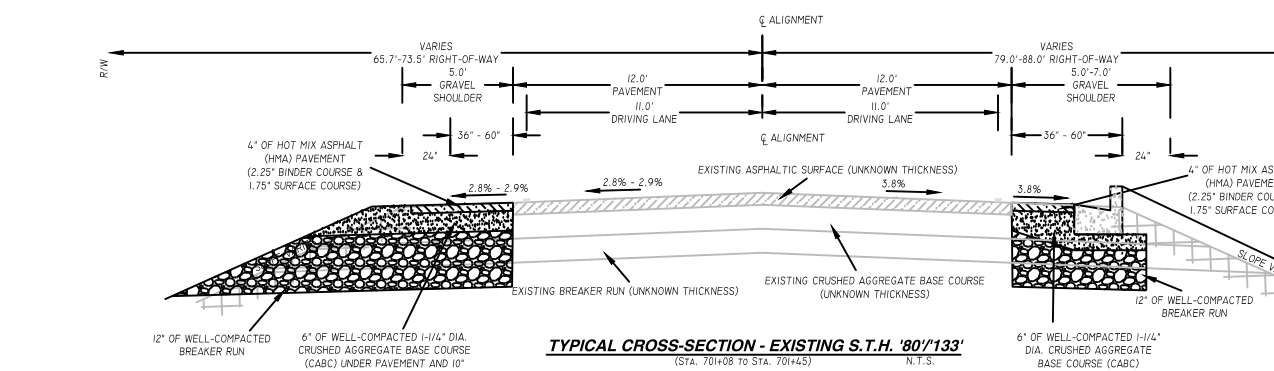
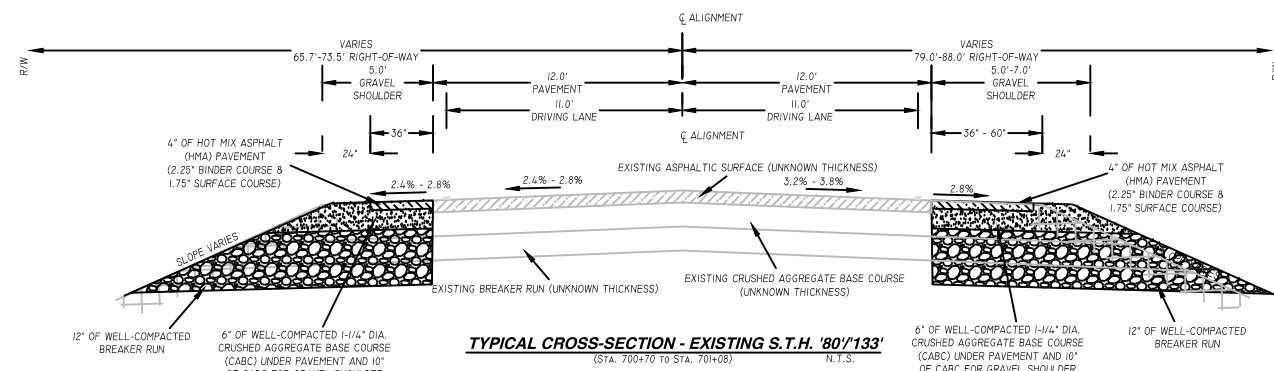
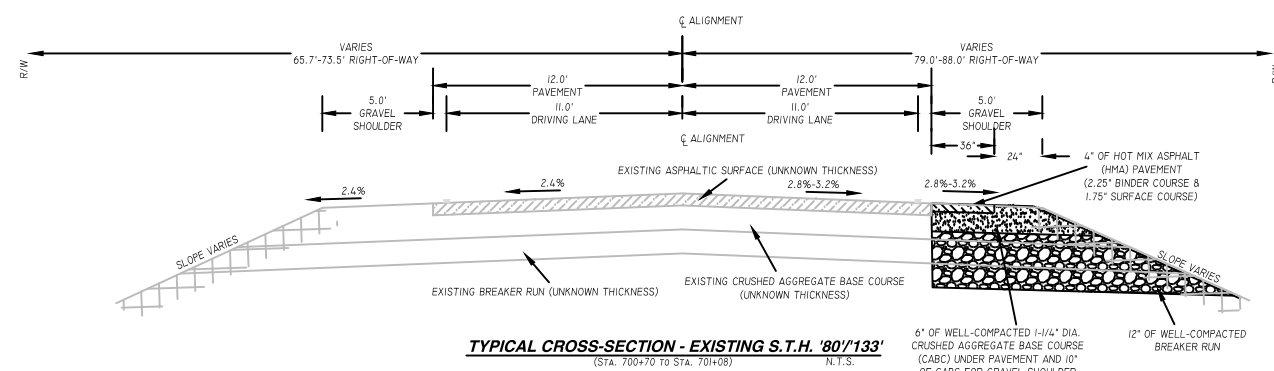
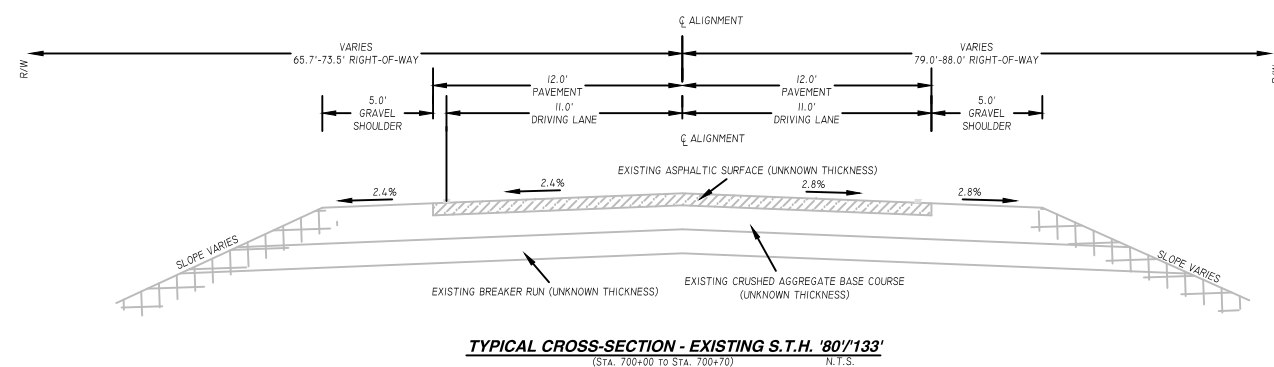
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FOR BID	
PROJECT NUMBER	D20-121
SHEET SCALE	NOT TO SCALE
DRAWN BY	C. COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	DETAILS - S.T.H. 80"/13" TYP. CROSS-SECTION

**SHEET TITLE:**

***C212***

**SHEET  
NUMBER # 32 of 41**





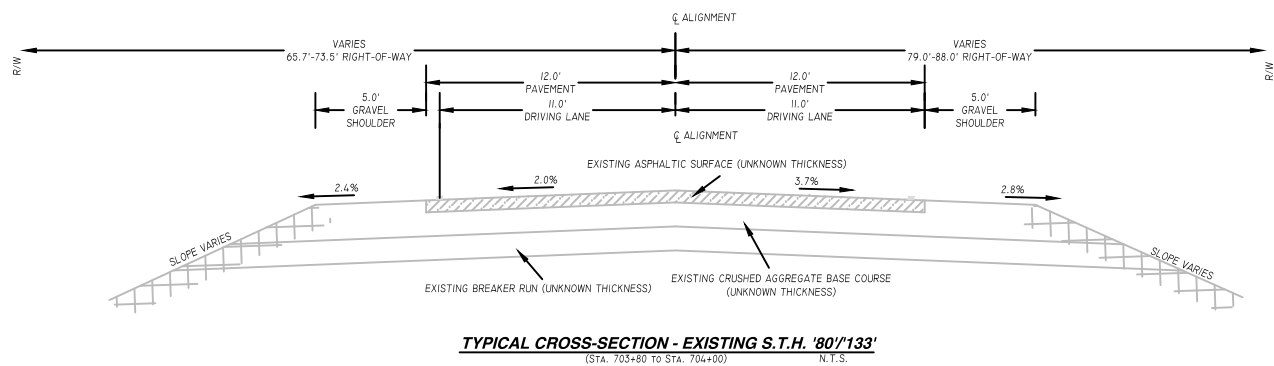
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DELTA 3 ENGINEERING, INC.  
TELEPHONE: (608) 348-5355

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STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

- 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 EDGE LINE.
- 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.



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**



 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.

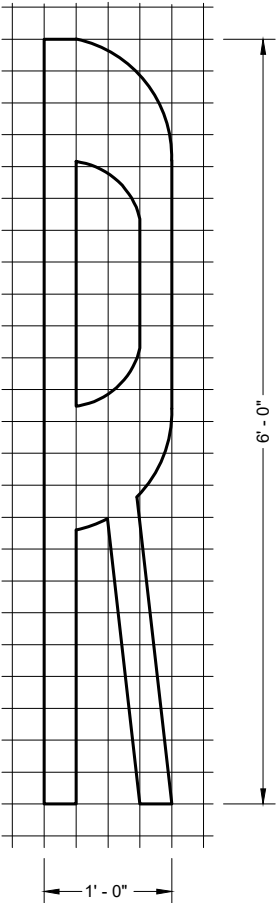
TRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

- 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.



**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

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***



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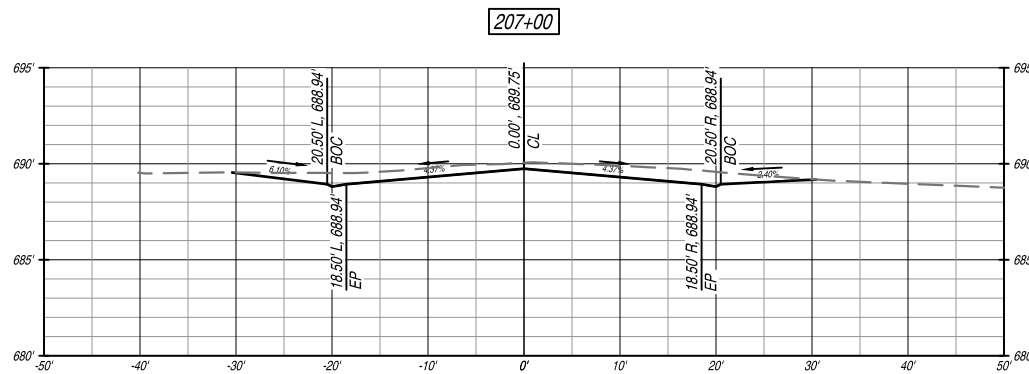
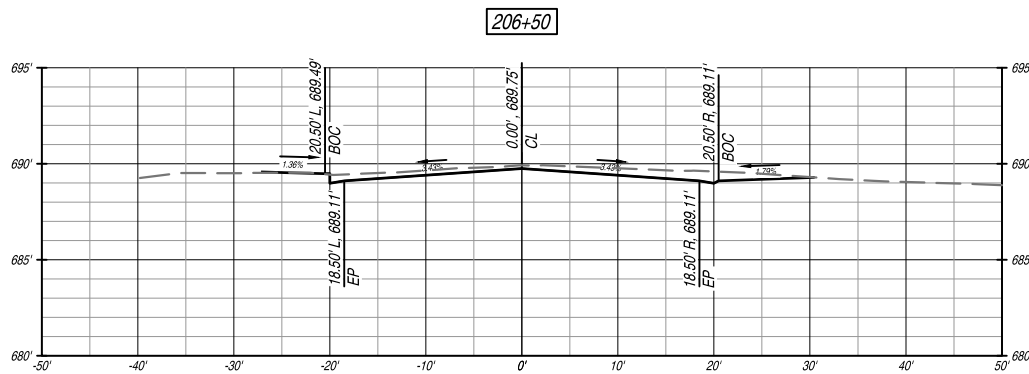
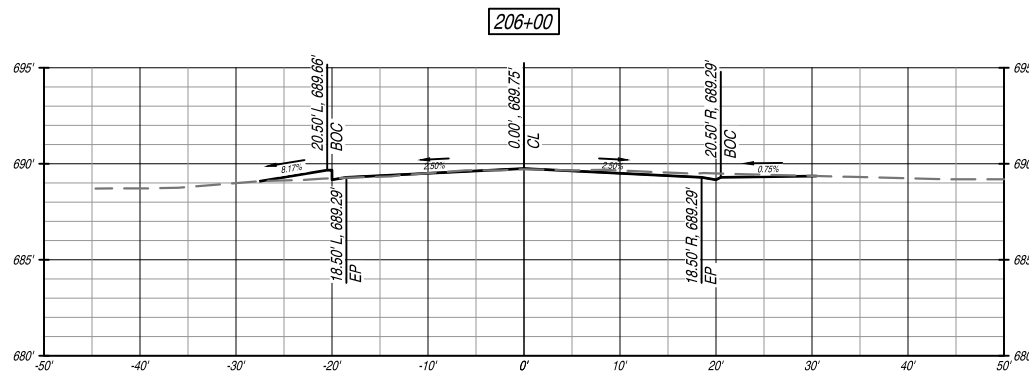
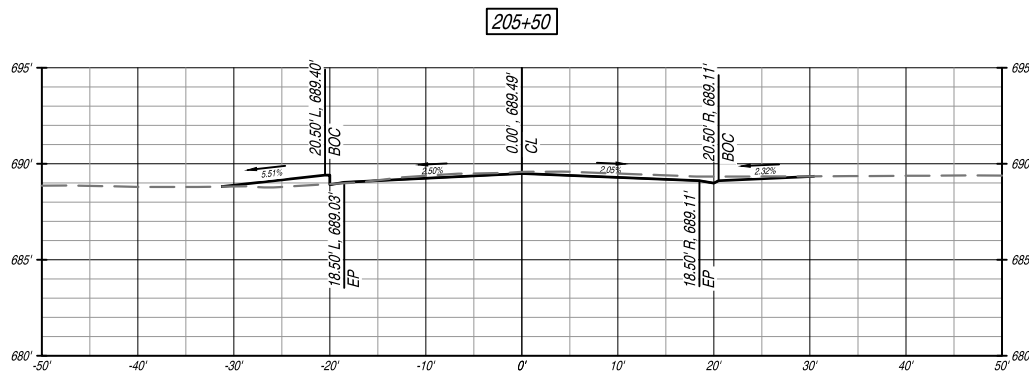
PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573

[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.

**C302**

**SHEET**  
**NUMBER # 36 of 41**



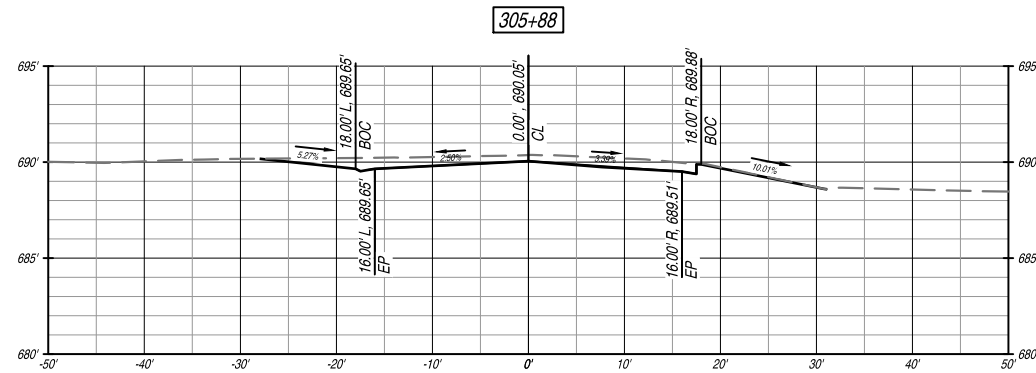
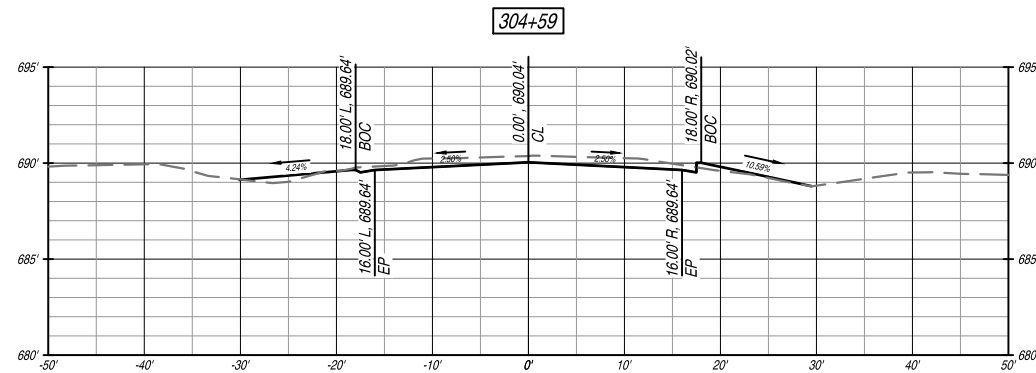
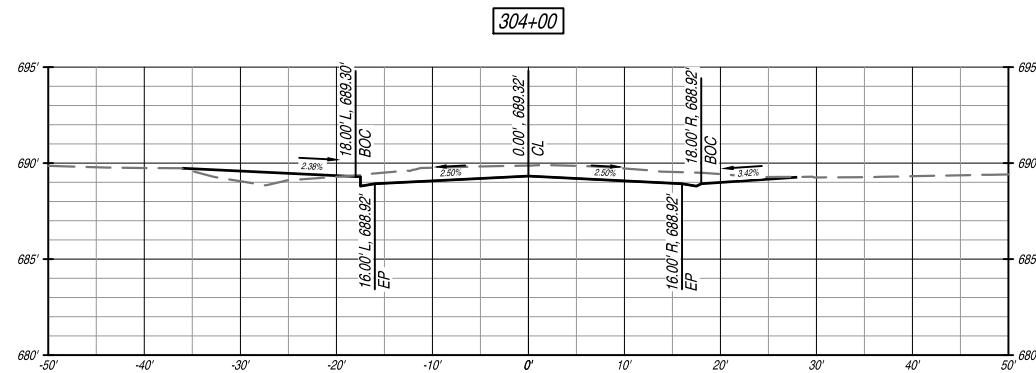
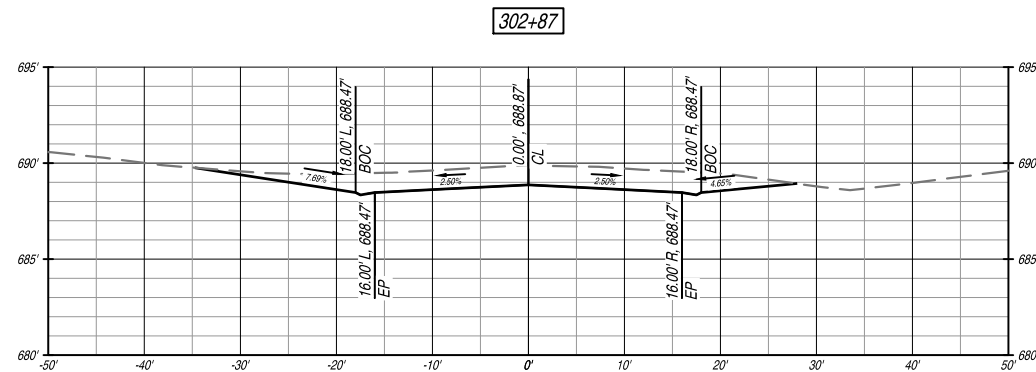
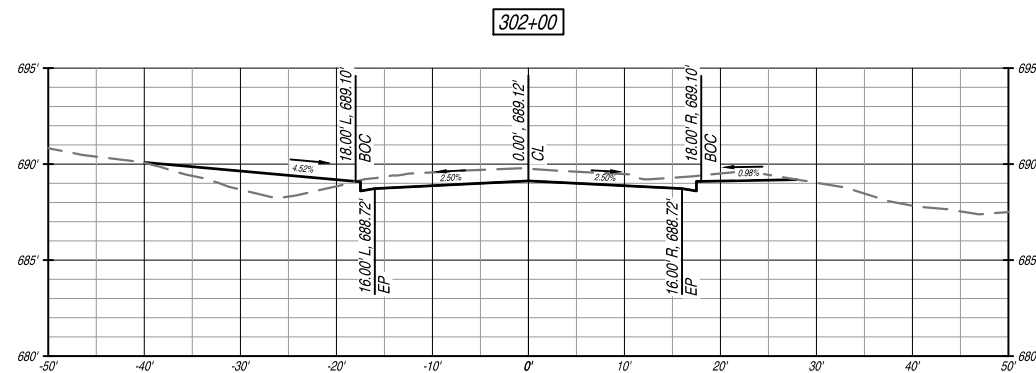
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DELTA 3 ENGINEERING, INC.  
TELEPHONE: (608) 348-5355

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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	HORZ.-1" = 10' VERT.-1" = 5'
DRAWN BY	C. COYIER
DATE ISSUED	SEPT. 25, 2023
SHEET DESC.	CROSS-SECTIONS - HOWARD STREET

**SHEET  
NUMBER # 37 of 41**





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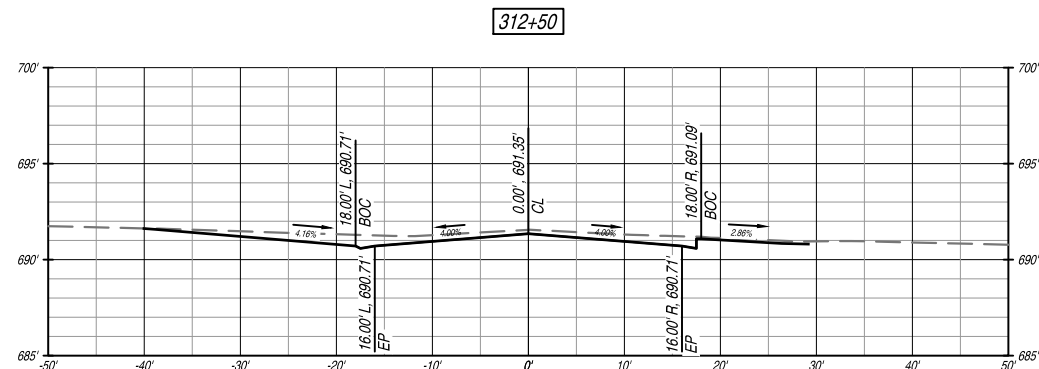
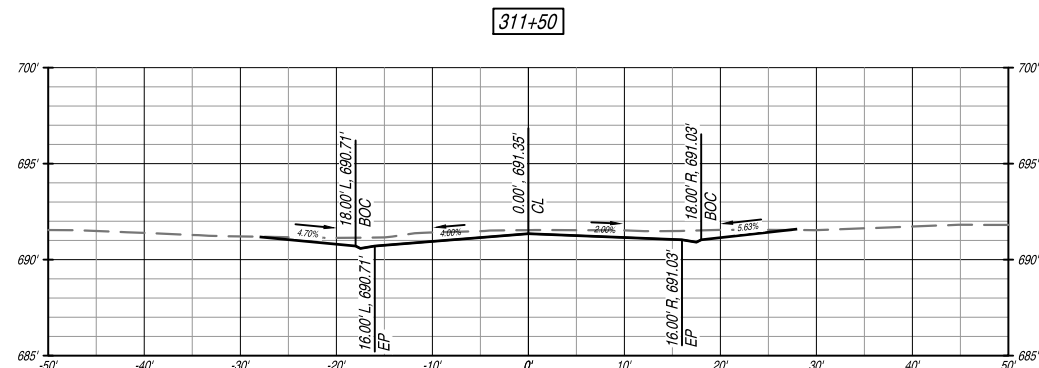
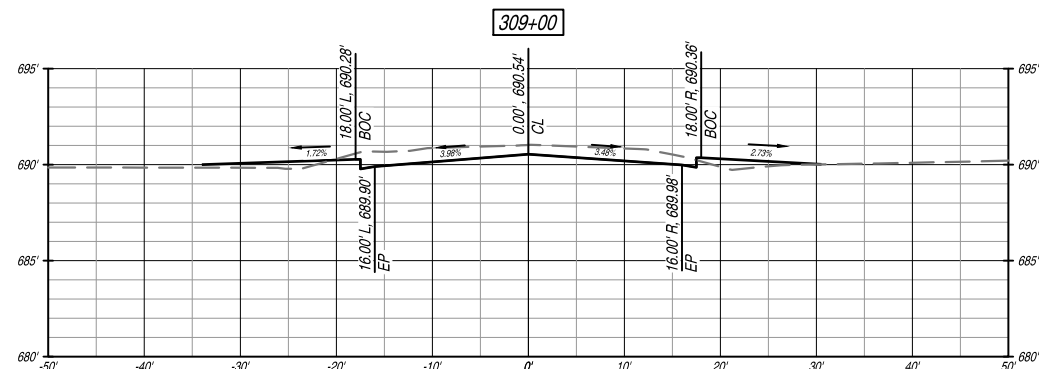
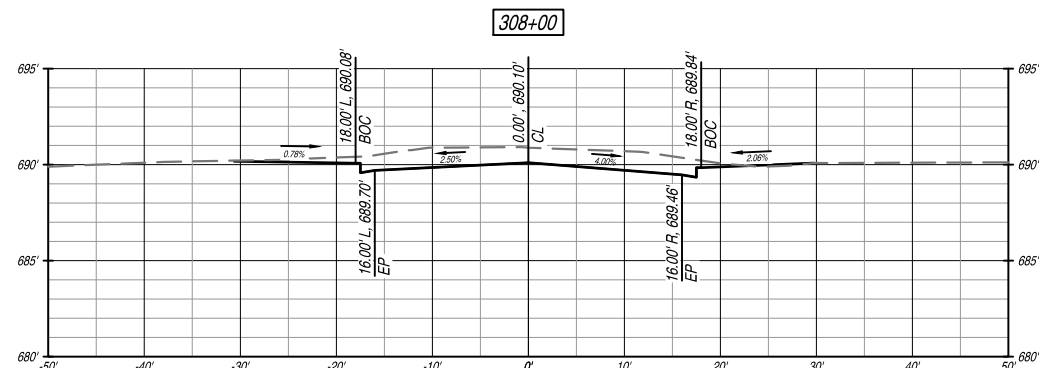
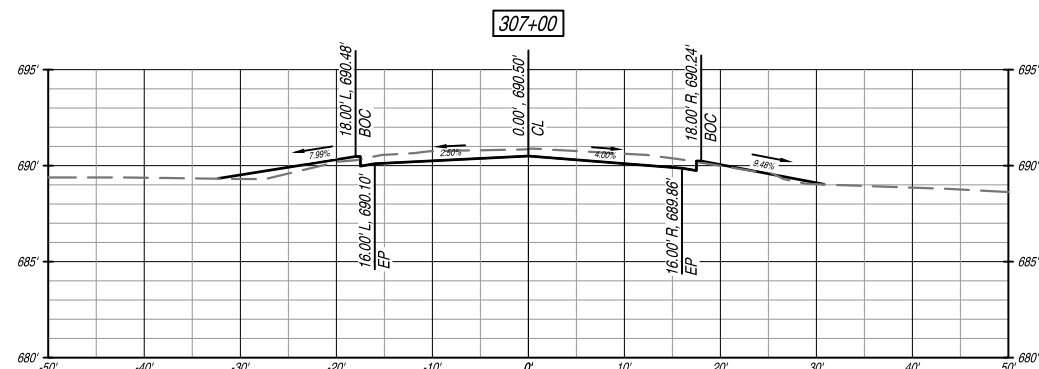
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PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MUSCODA; 206 N. WISCONSIN AVENUE; MUSCODA, WI 53573

[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

**C304**



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TELEPHONE: (608) 348-5355

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

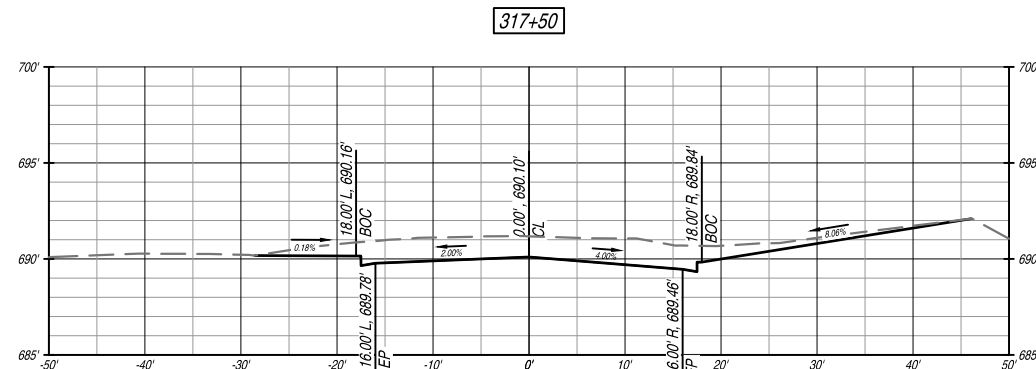
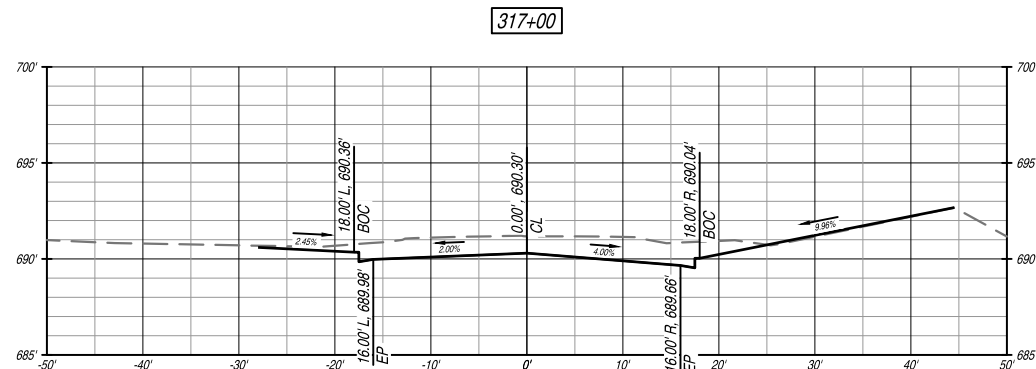
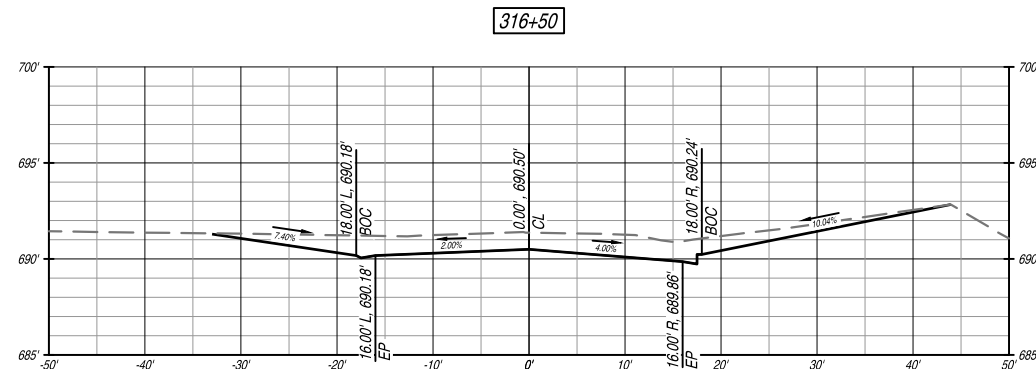
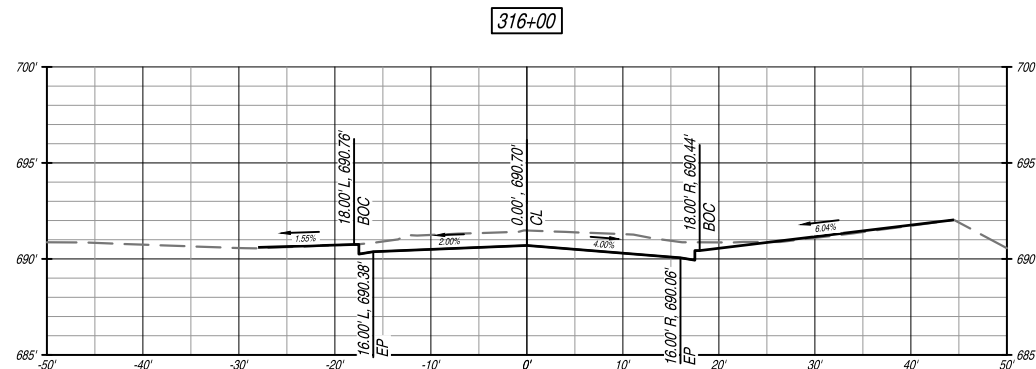
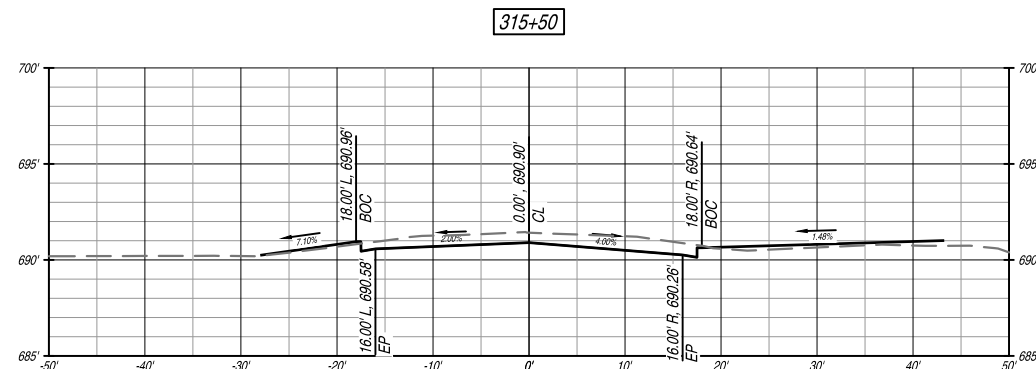
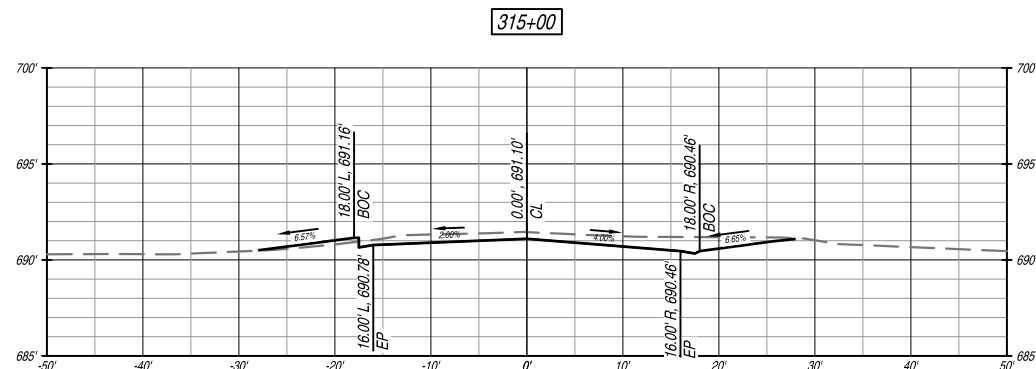
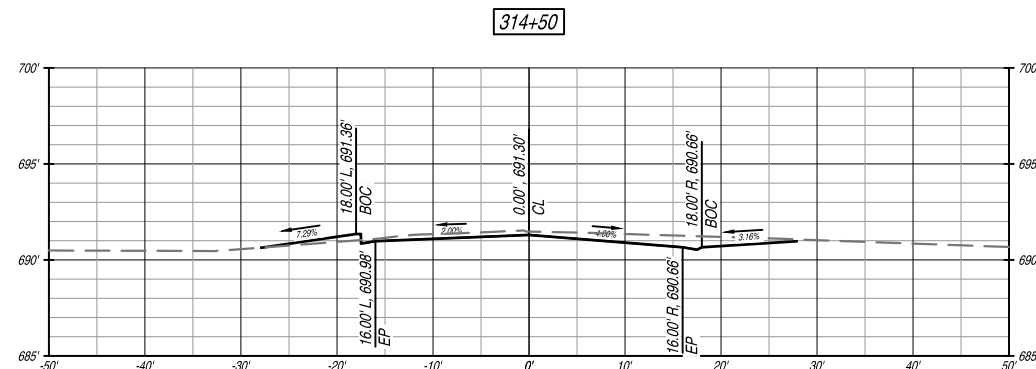
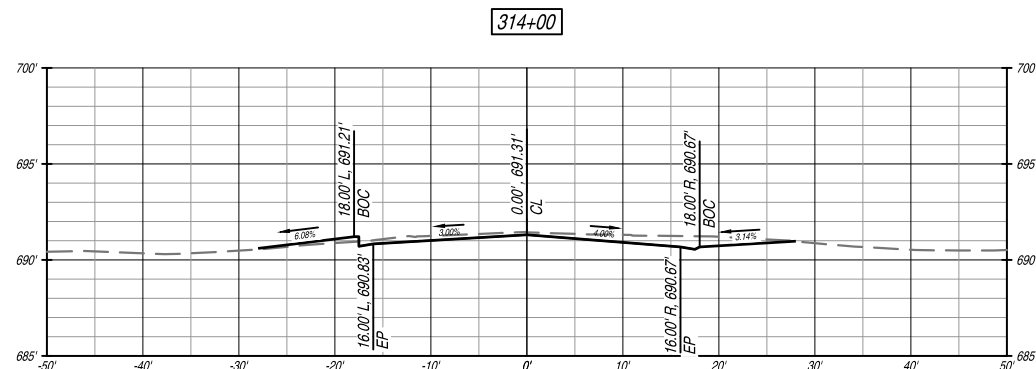
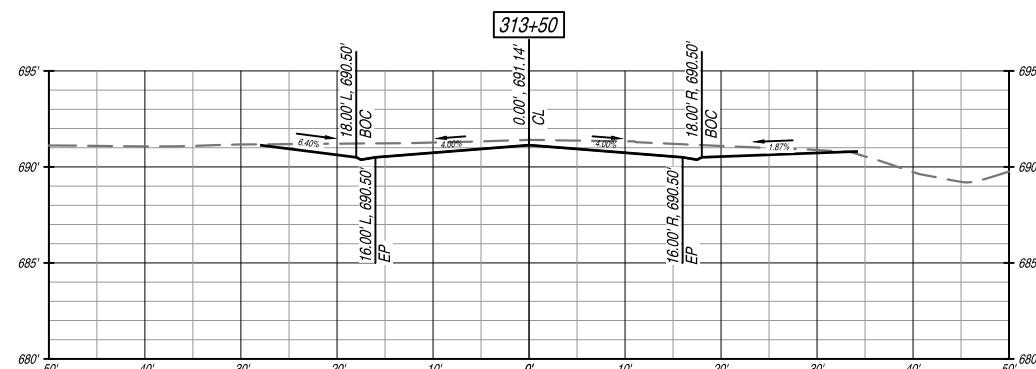
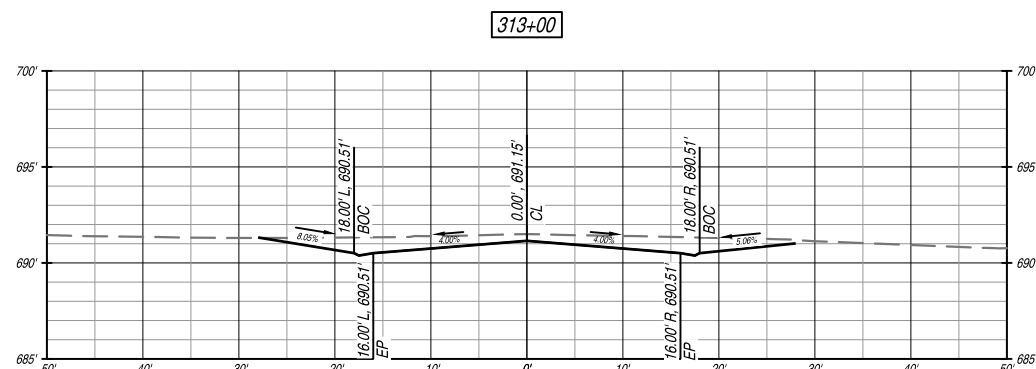
PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
OWNER: VILLAGE OF MILSCODA, 206 N. WISCONSIN AVENUE, MILSCODA, WI 53573

[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

***C305***

**SHEET**  
**NUMBER # 39 of 41**



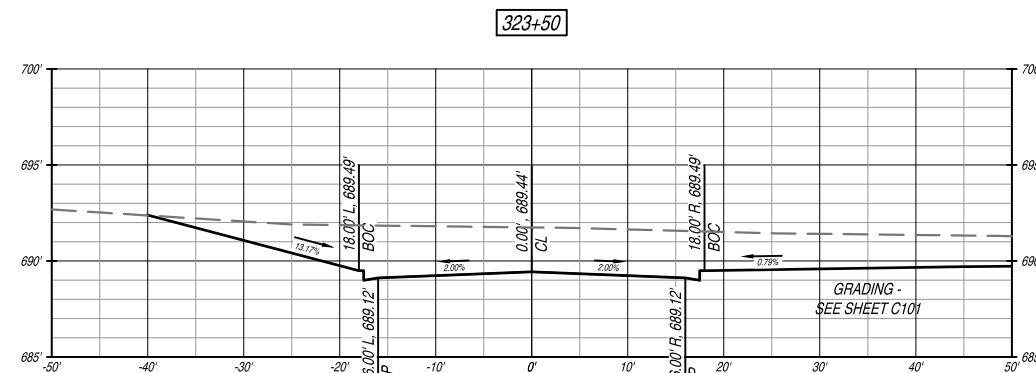
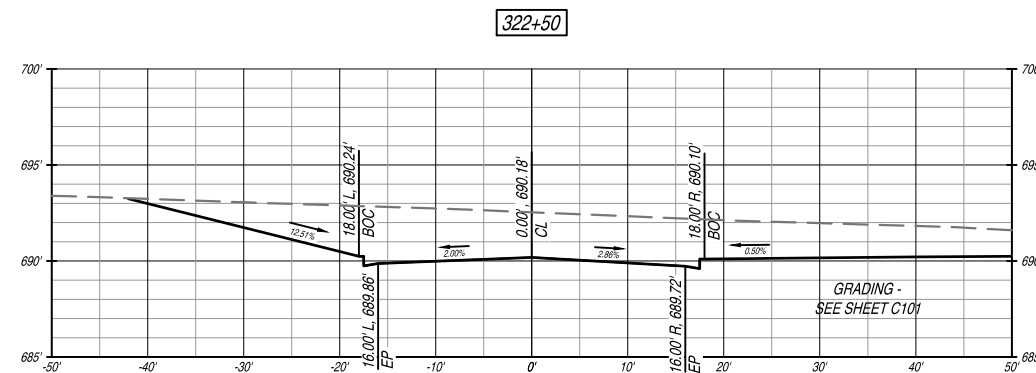
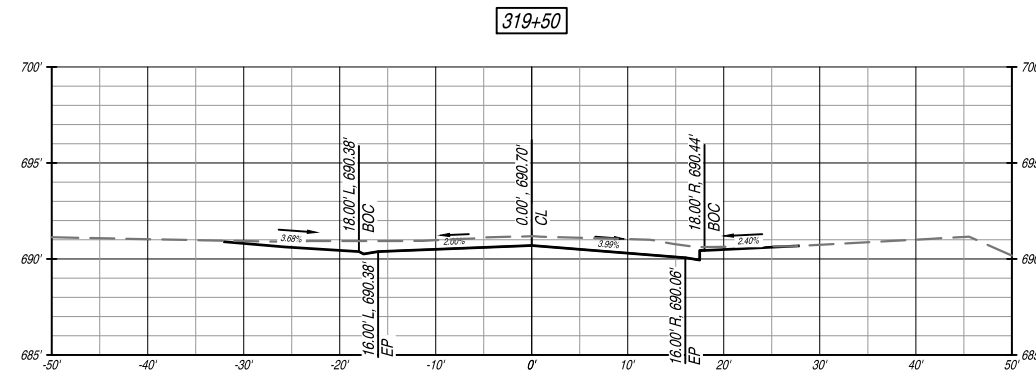
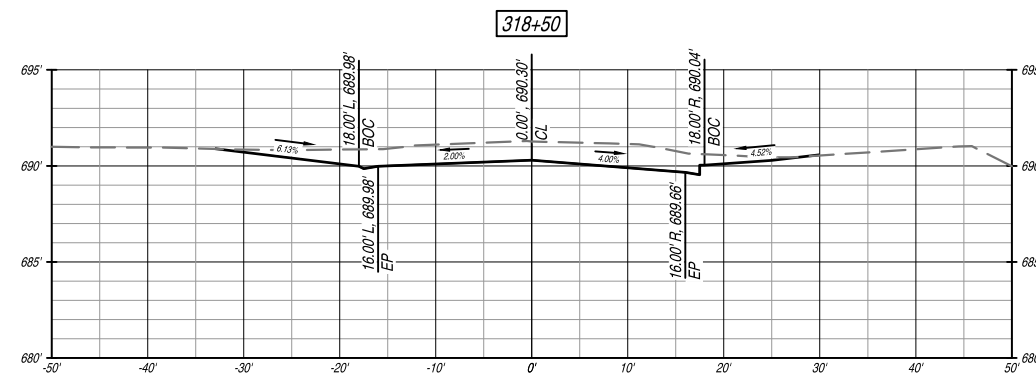
**MARK DIGMAN, P.E.**  
DELTA 3 ENGINEERING, INC.  
TELEPHONE: (608) 348-5355

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PROJECT LOCATION: INDUSTRIAL DR, HOWARD ST., OLD COUNTY 'P'  
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 # 40 of 41**





**MARK DIGMAN, P.E.**  
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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

**C307**

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

