CITY OF STORM LAKE
REGULAR COUNCIL MEETING, CITY HALL COUNCIL CHAMBERS
MAY 16, 2022
5:00 PM

AGENDA

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

ACCESS TO THE OFFICIAL MEETING CAN ALSO BE DONE THROUGH THE FOLLOWING WAYS:

BY TELEPHONE:
Dial: 1-312-626-6799 or toll-free: 1-888-475-4499
Zoom Meeting ID: 933-2006-3301

BY COMPUTER:
https://zoom.us/j/93320063301

A. Pledge of Allegiance

1. Hear the Public
2. Consent Agenda
   - A. **Approve Consent Agenda**
   - B. **Buy Local Information**
   - C. **Alliant Energy Easement Discovery Center**
   - D. **Resolution No. 75-R-2021-2022 Amending the Fee Resolution for Chautauqua Shelter House Rental and Sunrise Pointe Golf Course**
   - E. **Motion Authorizing A Noise Variance For The Buddhist Temple**
   - F. **Motion Authorizing a Noise Variance for Summit Church**
   - G. **Approve Request For Road Closures For Parade of Flags**
   - H. **Motion Authorizing Requests For The 2022 Star Spangled Spectacular (July 3rd and 4th)**
   - I. **Star Spangled Spectacular Fireworks Permit**
   - J. **SLPD City Code Enforcement Summary**
3. King's Pointe Update
4. **A Public Hearing On A Proposed Text Amendment to the Storm Lake Zoning Ordinance To Permit Servicing of Non-Commercial Lawn and Garden Equipment as a Home Occupation.**

5. **Ordinance No. 13-O-2021-2022 Proposed Text Amendment to the Storm Lake Zoning Ordinance To Permit Servicing of Non-Commercial Lawn and Garden Equipment as a Home Occupation - First Reading**

6. **Ordinance No. 11-O-2021-2022 Providing for a New Water Rate Schedule - 2nd Reading**

7. **Ordinance No. 12-O-2021-2022 Providing for a New Sewer Rate Schedule - 2nd Reading**

8. **Motion to Amend the Warehouse Storage Facilities Operator Agreement with L & G Products, Inc.**
9. **Motion to Approve Resolution No. 76-R-2021-2022 Authorizing Local Match for FEMA HMA Grant Application**
10. **Public Hearing for the Richland Street, Phase 2 Improvements Plans, Specifications, and Form of Contract**
11. **Resolution No. 77-R-2021-2022 for the Richland Street, Phase 2 Improvements Plans, Specifications, Form of Contract and Bid Award**
12. **City Council Requested Items**
13. Adjourn

Meeting Protocol

If you wish to speak today, please:

1. To speak on an agenda item please approach the podium when that agenda item is called and upon recognition by the Mayor identify yourself by stating your name and address.
2. If your issue is not a topic on the agenda please approach the podium under the "Hear the Public" agenda item and upon recognition by the Mayor identify yourself by stating your name and address.
3. Please keep your remarks to three (3) minutes or less.
4. If you require accommodation for this meeting including but not limited to translation services, hearing assistance, or accessibility please contact the City Clerk at least four (4) hours prior to the start of the meeting.

**If you have concerns about any of the items on the consent agenda, they may be separated from the consent agenda and voted on individually.*

***Ordinances may be read at three consecutive meetings or readings may be waived and ordinances may be passed at only one or two meetings.*

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Staff Summary

5/16/2022
Agenda Item # A.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Mayra Martinez, City Clerk

SUBJECT: **Approve Consent Agenda**

BACKGROUND: The Consen t Agenda Includes:

- List of bills for approval
- King's Pointe and Sunrise Pointe disbursements for approval
- Approve the May 2, 2022 City Council Minutes
- Approve Renewal Liquor Licenses For Pizza Hut, Sofi's Bakery dba Delicias,
- Approve Alliant Energy - Easement Discovery Center
- Approve Resolution No. 75-R-2021-2022 Amending the Fee Resolution for Chautauqua Shelter House Rental and Sunrise Pointe Golf Course
- Motion Authorizing a Noise Variance at the Buddhist Temple
- Motion Authorizing a Noise Variance for Summit Church
- Approve Request for Road Closures for Parade of Flags
- Motion Authorizing Requests for the 2022 Star Spangled Spectacular (July 3rd and 4th)
- Approve July 4, 2022 Fireworks Permit
- Approve to Change the Regular City Council Meeting from Monday, July 4th, 2022 as it is the Observed Date for the 4th of July Holiday to Tuesday, July 5th, 2022.
- Approve the SLPD Code Enforcement Summary (see staff summary)

FISCAL IMPACT: The City will pay the following expenditures:

- List of Bills - - $329,615.09
- King's Pointe & Sunrise Pointe Golf Course Bills -- $233,805.85
-

The City will receive the following revenues:

- Liquor License Renewals: $1,145.00

RECOMMENDATION: Approve Consent Agenda

ATTACHMENTS:

	Description	Type
🗋	King's Pointe Claims	List of Bills
🗋	Minutes - May 2, 2022	Minutes
🗋	List of Bills	List of Bills
🗋	Pizza Hut Liquor Application 2022	Application
🗋	Pizza Hut Liquor Report 2022	Backup Material
🗋	Sofi's Bakery dba Delicias Liquor Application 2022	Application
🗋	SSS Events Request Letter	Letter
🗋	SSS Car Cruise Map 2022	Map

King's Pointe Resort

Claims Publication

From 4/29/2022 to 5/12/2022

Vendor	Description	Amount
360 Custom Designs, LLC	Services	$ 356.12
ACCO Unlimited Corporation	Supplies	$ 6,952.66
Alliant Energy	Utilities	$ 521.26
Amazon Capital Services, Inc	Services	$ 6,643.20
Andrew Eberhardt	Reimbursement	$ 1,958.18
Authnet Gateway	Services	$ 25.00
Bomar Soft Playgrounds Inc	Supplies	$ 4,590.00
Bomgaars Supply Inc.	Supplies	$ 104.76
Buena Vista University	Services	$ 1,574.33
Cintas Corporation	Supplies	$ 1,414.55
City of Storm Lake	Utilities	$ 4,585.99
Color-ize	Supplies	$ 1,740.14
COUNSEL	Services	$ 151.19
Doll Distribution	Beverages	$ 2,301.40
ECOLAB	Supplies	$ 284.47
Ed M. Feld Equipment	Supplies	$ 99.00
Fastenal Company	Supplies	$ 109.50
Fintech	Services	$ 58.35
Grainger	Supplies	$ 208.48
Gray Media Group DBA KTIV	Advertising	$ 1,963.00
GuestSupply	Supplies	$ 2,225.36
Hermel Wholesale	Food	$ 454.20
HyVee	Beverages	$ 2,054.17
Imagine The Possibilities Inc	Services	$ 150.00
Iowa Dept of Rev	Taxes	$ 32,212.03
Johnson Brothers	Beverages	$ 1,462.40
KAYL/KKIA	Advertising	$ 993.50
KCAU TV	Advertising	$ 250.00
Laurens House of Print, LTD	Services	$ 191.85
Loews Carpet One	Supplies	$ 124.67
Loffredo Fresh Foods Inc	Supplies	$ 435.08
Long Lines LLC	Utilities	$ 1,015.09
M3 Accounting Services Inc.	Services	$ 747.94
Marcus Lumber Co	Supplies	$ 84.27
Martin Brothers	Food	$ 9,741.19
Mediacom	Utilities	$ 472.90
MidAmerican Energy	Utilities	$ 8,739.44
National Utilities Refund LLC	Services	$ 93.52
North American Directory Services LLC	Services	$ 100.00
Northwind - Maestro PMS	Services	$ 1,000.00
Office Elements	Supplies	$ 233.37
Olsen Welding & Machine	Services	$ 15.00

Pepsi Beverages Company	Beverages	$	1,587.59
Pilot Tribune	Advertising	$	643.48
Pitney Bowes	Postage	$	100.00
Plumbing and Heating Wholesale, Inc.	Supplies	$	374.79
Power Solutions Inc.	Services	$	4,822.26
Precision Dynamics Corporation	Services	$	119.85
Precision Pours, Inc	Supplies	$	196.00
Rebnord Technologies, Inc.	Services	$	74.95
Rent-All Inc.	Supplies	$	103.38
Roto-Rooter	Services	$	474.00
Schumacher Elevator Company	Services	$	1,148.58
Shift 4	Services	$	9,228.14
Silverware POS Inc.	Services	$	1,037.00
Spencer Radio Group	Advertising	$	110.00
Steve's Window Service	Services	$	225.00
Storm Lake Ace Hardware	Supplies	$	521.78
Symmetry Energy Solutions LLC	Services	$	11,360.02
Sysco Iowa, Inc.	Food	$	7,682.50
The Messenger	Advertising	$	740.00
The Storm Lake School District Found	Services	$	500.00
Travel and Transport, Inc.	Services	$	104.97
Travel Leaders Corporate, LLC	Services	$	11.90
TY Inc.	Supplies	$	196.02
UPS	Services	$	15.57
Verizon Wireless	Utilities	$	146.20
Vista Paints	Supplies	$	205.70
Vizergy	Services	$	2,433.45
W-O Payroll 4/29	Payroll	$	82,015.79
W-O Management Fee- March 2022	Mgmt Fee	$	9,174.47
World Travel Service, Inc.	Services	$	11.90
		$	**233,802.85**

REGULAR COUNCIL MEETING, CITY HALL COUCIL CHAMBERS CITY OF STORM LAKE MAY 2, 2022, 5:00 PM

Present: Mayor Michael Porsch, Council Members Maggie Martinez, Tyson Rice, Matt Ricklefs, Kevin McKinney, and Maria Ramos. Absent: none

Staff present: City Manager Keri Navratil, Assistant City Manager David Derragon, City Attorney Phil Havens, Police Chief Chris Cole, Fire Chief Glenn Schlesser, Building and Code Compliance Director Scott Olesen, Library Director Elizabeth Huff, Public Services Supervisor Scott Bonebrake, Public Services Assistant Brandon Ripke, Water Quality Operations Supervisor Ron Covert, King's Pointe Manager Amy Von Bank, Development Services Specialist Lee Dutfield, Finance Director Brian Oakleaf, City Clerk Mayra Martinez and Staff Accountant Tyler Gibbins.

Media Present: Tom Cullen with The Storm Lake Times Pilot, Ryan Thompson with KAYL Radio.

Mayor Porsch called the meeting to order at 5:00 pm.

Pledge of Allegiance

Agenda - Moved by Council Member McKinney to request that agenda items number three and number four, involving Storm Lake United be moved to the end of the agenda before Adjourn. Seconded by Council Member Ricklefs. Vote: All ayes. Motion carried.

Disclosure by City Council Members – None

Hear the Public – No comments from the public.

Mayor Porsch read a Proclamation proclaiming May 15, 2022, through May 21, 2022, as Public Service Week. Mayor Porsch also read a Proclamation proclaiming May 15, 2022, through May 21, 2022, as Police Week. Mayor Porsch thanked the Public Service workers and the Police department for all of the work they do for the City.

The Mayor informed the Council members, staff and public that on Thursday, April 28, 2022, at the Regional ESGR Awards Banquet held in Spencer, IA., ESGR representatives presented the prestigious Department of Defense Pro Patria Award to the Storm Lake Police Department of Storm Lake, Iowa.

The Pro Patria Award is the highest honor a state ESGR Committee can bestow to those employers who have truly separated themselves with peerless efforts of support, strict adherence to the Uniformed Services Employment and Reemployment Rights Act (USERRA) which is the federal law that protects the employment rights of National Guard and Reserve Component service members against discrimination for serving their country, and demonstrate exceptional leadership through practices and policies for employees who serve in the Guard and Reserve.

Consent Agenda - Moved by Council Member Ricklefs to approve the Consent Agenda, list of bills Check #'s 78268 through 78335, EFT #'s 789, 2868 through 2923 , King's Pointe and Sunrise Pointe disbursements, approve the April 18, 2022, City Council minutes, approve renewal liquor licenses for Malarky's, Walgreens and Hy-Vee #1634, approve the Utility Billing uncollectible account write-

offs, and approve the SLPD Code Enforcement summary. Seconded by Council Member Martinez. Vote: All ayes. Motion carried.

Mayor Porsch mentioned that the representatives for Storm Lake United are now present at the Council meeting and that the agenda will remain in order as originally set up.

SLU 2022 Community Events **Amendment**- Moved by Council Member Rice to adopt Resolution No. 72-R-2021-2022 amending Storm Lake United requests for a series of the 2022 community events. Seconded by Council Member Ramos. Roll call vote: All ayes. Motion carried.

RESOLUTION NO. 72-R-2021-2022

RESOLUTION AMENDING STORM LAKE UNITED REQUESTS FOR A SERIES OF THE 2022 COMMUNITY EVENTS

WHEREAS**,** On March 21st, 2022, the City Council approved Resolution No. 67-R-2021-2022 for the Storm Lake United 2022 Community events

WHEREAS, Storm Lake United has requested changes to the 2022 community events

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF STORM LAKE, IOWA:

To approve the following changes to the 2022 Community Events:

John King Concert

- Request to use Awaysis Park for an outdoor concert on Friday June 17th, 2022.
- Request use of and assistance assembling the portable stage owned by the City.
- Request use and access to electrical power in Awaysis Park.

Wood Wine & Blues

- Request to allow the local Alchemist group of home brewers to serve tastings of beer, August 20th from the hours of 12:00 pm to 5:00 pm during the Wood, Wine and Blues event.
- Allow for an inflatable axe throwing mobile unit to set up in Sunset Park on Saturday August 20th and Sunday August 21st for children and young adults. The inflatable is for Velcro axe throwing only and will not be accessible for children to play on.

In each of the submitted event requests there was also a standing request for appropriate assistance from the Parks, Streets and Police Departments.

PASSED AND APPROVED this 2nd Day of May 2022

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Michael Porsch, Mayor

ATTEST:

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Mayra A. Martinez, City Clerk

Storm Lake United Update - Director Breanna Horsey, Marketing and Activities Director Dalton Walker, and Account Manger and Latino Community Outreach Gelder Pineda gave an update of their work at SLU for the months of January through April of 2022.

Junior Golf Program - Moved by Council Member Martinez to approve golf passes for the Junior Golf program. Seconded by Council Member Ramos. Vote: All ayes. Motion carried.

Text Amendment to the Zoning Ordinance GI Zoning District - Mayor Porsch opened the public hearing on a proposed text amendment to the Storm Lake Zoning Ordinance to permit kennels in the GI Zoning District stating this was the time and place for any comments. Robert Bruno introduced himself to the Council members and explained his request for the amendment to the Zoning ordinance and answered questions presented to him from the Council members. Receiving no other comments from City Council or the public, the Mayor then closed the public hearing.

Moved by Council Member Ramos to approve the first reading of Ordinance No. 10-O-2021-2022 for a proposed Text Amendment to the Storm Lake Zoning Ordinance to permit kennels in the GI Zoning District. Seconded by Council Member Ricklefs. Roll call vote: All ayes. Motion carried.

Text Amendment To The Zoning Ordinance Home Occupation – Moved by Council Member Ricklefs to approve setting May 16, 2022, at 5:00 at City Hall for a public hearing on a proposed text amendment to the Storm Lake Zoning Ordinance To Permit Servicing Of Non-Commercial Lawn And Garden Equipment As A Home Occupation. Seconded by Council Member McKinney. Roll call vote: All ayes. Motion carried.

FY 2021-2022 Budget Amendment - Mayor Porsch opened the public hearing for FY 2021-2022 Budget amendment stating this was the time and place for any comments. Hearing no comments from City Council or the public, the Mayor then closed the public hearing.

Moved by Council Member McKinney to adopt Resolution No. 73-R-221-2022 amending the current budget for the Fiscal Year ending June 30, 2022. Seconded by Council Member Martinez. Roll call vote: All ayes. Motion carried.

RESOLUTION NO. 73-R-2021-2022

A RESOLUTION AMENDING THE CURRENT BUDGET FOR THE FISCAL YEAR ENDING JUNE 30, 2022

Be it Resolved by the Council of the City of Storm Lake:

Section 1. Following notice published April 22, 2022, and the public hearing held, May 2nd, 2022, the current budget is amended as set out herein and in the detail by fund type and activity that supports this resolution which was considered at that hearing:

There will be no increase in taxes. Any residents or taxpayers will be heard for or against the proposed amendment at the time and place specified above. A detailed statement of: additional receipts, cash balances on hand at the close of the preceding fiscal year, and proposed disbursements, both past and anticipated, will be available at the hearing.

REVENUES & OTHER FINANCING SOURCES		Total Budget as Certified or Last Amended	Current Amendment	Total Budget After Current Amendment
Taxes Levied on Property	1	4,426,768	0	4,426,768
Less: Uncollected Delinquent Taxes - Levy Year	2	0	0	0
Net Current Property Tax	3	4,426,768	0	4,426,768
Delinquent Property Tax Revenue	4	0	0	0
TIF Revenues	5	910,956	0	910,956
Other City Taxes	6	2,655,195	0	2,655,195
Licenses & Permits	7	165,195	0	165,195
Use of Money & Property	8	226,202	19,770	245,972
Intergovernmental	9	2,973,359	-750,000	2,223,359
Charges for Service	10	15,256,002	1,713,021	16,969,023
Special Assessments	11	0	0	0
Miscellaneous	12	0	443,222	443,222
Other Financing Sources	13	1,350,000	0	1,350,000
Transfers In	14	9,446,035	2,356,917	11,802,952
Total Revenues & Other Sources	15	37,409,712	3,782,930	41,192,642
EXPENDITURES & OTHER FINANCING USES				
Public Safety	16	3,601,371	0	3,601,371
Public Works	17	1,812,203	223,568	2,035,771
Health and Social Services	18	116,000	0	116,000
Culture and Recreation	19	1,970,546	-83,431	1,887,115
Community and Economic Development	20	725,971	0	725,971
General Government	21	807,912	-37,000	770,912
Debt Service	22	2,108,213	116,337	2,224,550
Capital Projects	23	5,848,100	-860,300	4,987,800
Total Government Activities Expenditures	24	16,990,316	-640,826	16,349,490
Business Type/Enterprise	25	15,660,461	644,012	16,304,473
Total Gov Activities & Business Expenditures	26	32,650,777	3,186	32,653,963
Tranfers Out	27	9,446,035	2,356,917	11,802,952
Total Expenditures/Transfers Out	28	42,096,812	2,360,103	44,456,915
Excess Revenues & Other Sources Over (Under) Expenditures/Transfers Out	29	-4,687,100	1,422,827	-3,264,273
Beginning Fund Balance July 1, 2021	30	21,479,783	0	21,479,783
Ending Fund Balance June 30, 2022	31	16,792,683	1,422,827	18,215,510

Explanation of Changes: While Revenues and Expenditure Reductions are not required to be Amended, the City of Storm Lake includes these figures for increased transparency. Typically, Capital Projects and Improvements float between Fiscal Years, and this is reflected in Public Works, Enterprise and Capital Projects. As the Fiscal Year ends during the peak of construction season, this cannot be avoided. In addition, securing equipment and capital items now crosses Fiscal Years due to supply issues. We were able to reduce expected expenditures in the areas of Culture and Recreation as funds for the Marina were no longer needed. Legal expenses were greatly reduced . Transfers are simply a reflection of internal movement in Funds and do not result in actual increases or decreases to cash. A period of extensive Debt Refinancing and Consolidation leaves us with a minor adjustment to June's Debt Service. The total increase in Expenditures is expected to be $3,186, or 0.00976%

NOW THEREFORE be it resolved by the City Council of the City of Storm Lake, Iowa, to approve the above said budget amendment for the 2021-2022 Fiscal Year.

PASSED AND APPROVED this 2nd day of May 2022.

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Michael Porsch, Mayor

ATTEST:

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Mayra Martinez, City Clerk

Inter-fund Transfers and Adjustments - Moved by Council Member Ricklefs to adopt Resolution No. 74-R-2021-2022 authorizing inter-fund transfers and adjustments. Seconded by Council Member McKinney. Roll call vote: All ayes. Motion carried.

RESOLUTION NO. 74-R-2021-2022
A RESOLUTION AUTHORIZING INTERFUND TRANSFERS AND ADJUSTMENTS

Be it Resolved by the Council of the City of Storm Lake:
Section 1. Whereas, there is a need to transfer resources between funds provided as follows:
Fund Key:

001	**General Fund**	**172**	**Library Misc Memorial Trust**	**603**	**Water Plant Debt Service**
003	Outdoor Water Park Fund	177	Asset Forfeiture/Law Enforcement Fund	604	Utility Deposits
004	Cottages	178	Police Dept. Evidence Fund	610	Sewer Fund
005	Tort Insurance Fund	200	Debt Service Fund	611	Sewer Capital Improvements
006	Marina	201	Storm Water Debt Service Fund	612	Sewer Debt Reserve
010	Franchise Fees	220	Outdoor Pool/Storm Water GO	613	FEMA HMGP - Sanitary Sewer
030	Outdoor WP Replacement Res	222	Hotel Motel Tax Debt Reserve	620	Storm Water Fund
040	Cottage Reserve Fund	223	$2.5 Bond Sinking Fund	621	Storm Water Capital
110	Road Use Tax Fund	224	TIF Debt Reserve Fund	622	Storm Water Sinking Fund
112	Special Levy Fund	225	Awaysis Local Option Sinking	670	Landfill Fund
119	Emergency Levy	227	5.6M Series Sinking Fund	750	Lodge Operations Fund
121	Local Option Sales Tax Fund	228	2.94M Series Sinking Fund	753	Lodge Reserve Fund
123	Hotel Motel Tax	230	Hotel/Motel Tax Bonds Fund	754	Lodge Taxes & Insurance
124	Mitigation Fund	231	McKenna Water Sinking Fund	755	Hotel Revenue Bonds Fund
125	TIF Fund	232	McKenna Sewer Sinking Fund	756	Hotel Property Tax Fund
126	Bargloff TIF	233	Bargloff Reserve Fund	757	Lodge Replacement Reserve Fund
127	The Reserves - TIF	234	Bargloff Sinking Fund	822	Health Benefit Trust Fund
128	#4 LMI Housing URA	235	TIF Bonds Fund	824	125 Flexible Benefits Fund
129	Storm Lake Sub-Division #5	299	Bond Refinancing	825	Wellness Fund
130	South School Urban Renewal	301	Capital Improvement Projects	835	Employee Internal Fund
131	LMI #5 Housing URA	500	Erma Myers Trust Fund	910	Chapter 411 Pension Fund
132	LMI Revolving Fund	600	Water Fund	960	Lake Improvement Commission
167	Restricted Gifts	601	Water Capital Improvements	970	Drainage Districts
168	**Senior Center Trust Fund**	602	Water Bond Reserve		

Section 2. Whereas, there is a need to transfer resources between funds to provide for operations, fund balancing, and debt service in amounts not to exceed according to the certified budget for fiscal year 2021-2022 as follows:

Fund From:	Fund To:	Description (What):	Amount:
Fund 001	Fund 110	IDNR Boat Ramp Rehab Reimb	$20,515.00
Fund 001	Fund 757	FEMA COVID Funding	$20,648.41
Fund 004	Fund 001	Campground Storage Building Renovation	$40,000.00
Fund 004	Fund 001	Dock Replacement	$25,000.00
Fund 006	Fund 001	Reserve Housekeeping	$26,292.93
Fund 010	Fund 001	Downtown Master Plan	$113,000.00
Fund 010	Fund 001	Comprehensive Plan/ Zoning Update	$125,880.00
Fund 010	Fund 001	Printers/Scanners & Other IT Peripheral	$7,000.00
Fund 010	Fund 001	IT Solutions	$105,081.00
Fund 010	Fund 001	Trail Set-A-Side	$25,000.00
Fund 010	Fund 001	Sesquicentennial	$2,500.00
Fund 010	Fund 223	$1.85M Hotel Revenue Bond	$17,677.75
Fund 010	Fund 301	Fiber Line Installation	$200,000.00
Fund 010	Fund 301	Oneida to Milwaukee Reconstruction	$350,500.00
Fund 010	Fund 301	Richland Street Phase 2	$99,100.00
Fund 010	Fund 757	KP Recreation Equipment Agreement	$80,000.00
Fund 110	Fund 301	Richland Street Phase 2	$99,100.00
Fund 110	Fund 301	Infrastructure Management Plan	$6,000.00
Fund 110	Fund 601	4th Street Watermain Installation	$191,467.12
Fund 112	Fund 822	Insurance Allocations	$750,000.00
Fund 112	Fund 825	Wellness	$12,000.00
Fund 112	Fund 001	FICA Correction	$637.08
Fund 112	Fund 910	411 Pension	$360,000.00
Fund 119	Fund 001	Emergency Levy Supplement	$100,000.00
Fund 121	Fund 001	Detective Toughbook	$6,400.00
Fund 121	Fund 001	Airport Technology Upgrades	$16,500.00
Fund 121	Fund 001	City Hall Updates	$20,000.00
Fund 121	Fund 001	Computer Rotation	$14,700.00
Fund 121	Fund 001	Fire Dept Blinds	$3,000.00
Fund 121	Fund 001	Fire Dept Ladders	$2,400.00
Fund 121	Fund 001	Aerial 71 Pump Shaft	$12,000.00
Fund 121	Fund 001	Fire Dept SCBA Replacements	$16,000.00
Fund 121	Fund 001	Golf Clubhouse Renovation	$40,000.00
Fund 121	Fund 001	Golf Fairway Mower	$53,000.00
Fund 121	Fund 001	Golf Toro Mower	$53,000.00
Fund 121	Fund 001	Golf Weed Sprayer	$13,000.00
Fund 121	Fund 001	Library Lighting Replacement	$60,000.00
Fund 121	Fund 001	Parks Mower	$75,000.00
Fund 121	Fund 001	Kiwanis Park Equipment	$15,000.00
Fund 121	Fund 001	PD Body Armor	$2,500.00

Fund 121	Fund 001	PD K-9 Patrol Vehicle	$57,000.00
Fund 121	Fund 001	PD Patrol Vehicle	$57,000.00
Fund 121	Fund 110	Street Boom Truck	$112,500.00
Fund 121	Fund 110	Street Shop Parking Lot Renovation	$50,000.00
Fund 121	Fund 225	$8.171M GO Bond	$838,782.00
Fund 121	Fund 757	King's Pointe Remodel/Refresh	$186,250.00
Fund 123	Fund 001	Storm Lake United Add'l Funding	$6,600.00
Fund 123	Fund 001	Recreation Set-A-Side	$35,000.00
Fund 123	Fund 030	OWP Slide Painting	$50,000.00
Fund 123	Fund 030	OWP Circulation Pump	$5,000.00
Fund 123	Fund 228	$925k Tax GO Bond	$116,317.00
Fund 124	Fund 227	$5.74M GO Bond	$313,094.92
Fund 125	Fund 756	Property Tax Transfer	$217,858.00
Fund 125	Fund 227	$5.74M GO Bond	$230,250.40
Fund 126	Fund 234	$2.685M GO ($3.39M) Bond	$217,500.00
Fund 232	Fund 610	McKenna Sewer Bond Payoff	$17,575.00
Fund 600	Fund 301	Fiber Line Installation	$300,000.00
Fund 600	Fund 301	Infrastructure Management Plan	$6,000.00
Fund 600	Fund 601	4th Street Watermain Installation	$445,500.00
Fund 600	Fund 301	SL Elevated Water Storage - Tower #5	$350,000.00
Fund 600	Fund 603	$2.163M Water Revenue Bond	$69,947.00
Fund 600	Fund 603	$7.5M Water Revenue SRF	$489,520.00
Fund 602	Fund 600	Water Reserve	$500,632.88
Fund 610	Fund 227	$5.74M GO Bond	$32,409.00
Fund 610	Fund 301	Fiber Line Installation	$300,000.00
Fund 610	Fund 612	$4.538M Sewer Revenue Bond	$434,910.90
Fund 610	Fund 612	$660k Sewer Revenue Bond	$44,865.00
Fund 610	Fund 612	$1.608 Memorial LS SRF Bond	$99,678.96
Fund 612	Fund 611	Memorial LS Upgrades- SRF Funds	$1,182,687.90
Fund 612	Fund 611	Memorial LS Upgrades- SRF Funds	$425,312.10
Fund 620	Fund 227	$5.74M GO Bond	$124,999.59
Fund 620	Fund 601	4th Street Watermain Installation	11,900.00
Fund 620	Fund 621	NRDG Project Closeout	133,272.80
Fund 620	Fund 622	Reverse $729K NCSW SRF	$34,740.00
Fund 753	Fund 757	Reserve Set-A-Side	$1,568.38
Fund 755	Fund 223	$1.85M Hotel Revenue Bond	$161,126.00
			$10,839,697.12

NOW THEREFORE be it resolved by the City Council of the City of Storm Lake, Iowa, to approve the above said transfers of funds for the 2021-2022 Fiscal Year.

PASSED AND APPROVED this _____ day of _____, _____

Michael Porsch, Mayor

ATTEST:

Mayra Martinez, City Clerk

Water and Sewer Rates - Mayor Porsch opened the public hearing on ordinances changing the water and sewer rates stating this was the time and place for any comments. Hearing no comments from City Council or the public, the Mayor then closed the public hearing.

Water Rate Schedule – 1st Reading - Moved by Council Member Rice to approve the first reading of Ordinance No. 11-O-2021-2022 providing for a new water rate schedule. Seconded by Council Member Martinez. Roll call vote: All ayes. Motion carried.

Sewer Rate Schedule – 1st Reading - Moved by Council Member Ricklefs to approve the first reading of Ordinance No. 12-O-2021-2022 providing for a new sewer rate schedule. Seconded by Council Member Martinez. Roll call vote: All ayes. Motion carried.

Richland Street, Phase 2 Improvements - Moved by Council Member Ramos to set a Public Hearing for May 16, 2022, at 5:00 pm at City Hall Council Chambers for the Richland Street, Phase 2 Improvements, plans, specifications and form of contract. Seconded by Council Member McKinney. Vote: All ayes. Motion carried.

City Council Requested Items – No items at this time.

Adjourn - Moved by Council Member Ramos to adjourn at 6:42 pm. Seconded by Council Member Rice. Vote: All ayes. Motion carried.

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk

My Buy Local_v1

Storm Lake, IA

Payment Date Range: 05/05/2022 - 05/18/2022

Vendor Name	Buy Local Info	Payable Description	Total Payments
BVC			
Mike's Electronics Inc	BVC	Muffin Monster Services	1,470.68
Essential Ellison LLC	BVC	Annual Fire Extingisher Inspection	708.23
Mike's Electronics Inc	BVC	Lime Press Serivces	807.50
Buena Vista County Clerk of Court	BVC	5/6/22 Filing- SMSM0449993 & 4	195.00
Essential Ellison LLC	BVC	Annual Fire Extinguisher Inspection	130.15
Buena Vista County Solid Waste	BVC	Recycling	58.76
Buena Vista County Recorder	BVC	April 2022 Recordings	54.00
Buena Vista County Solid Waste	BVC	Recycling	80.85
		BVC Total:	**3,505.17**
Contract/Agreement			
Bolton & Menk, Inc	Contract/Agreement	Construction Admin	29,835.00
I & S Group, Inc	Contract/Agreement	Visioning & Goals	9,750.00
Bolton & Menk, Inc	Contract/Agreement	Construction Admin	7,017.00
Power Solutions, Inc	Contract/Agreement	Office Lighting	6,685.20
Bolton & Menk, Inc	Contract/Agreement	Comp Plan Services	6,050.00
I & S Group, Inc	Contract/Agreement	Construction Services	13,794.82
Bolton & Menk, Inc	Contract/Agreement	General Engineering Services	3,047.50
I & S Group, Inc	Contract/Agreement	Design Services	1,646.25
Power Solutions, Inc	Contract/Agreement	Bathroom Switch	105.68
	Contract/Agreement Total:		**77,931.45**
Local			
Growmark, Inc	Local	Fuel	12,619.15
Alliant Energy	Local	Gas Services	7,815.60
Jim Bartholomew	Local	May 2022 Airport Contract	5,783.97
Rebnord Technologies, Inc	Local	IT Service Agreement	3,583.13
Verizon Wireless Services LLC	Local	Cell Phone Service	3,509.20
Stille Pierce & Pertzborn	Local	EMOD Correction	3,287.00
L & G Products, Inc	Local	Mulch	2,956.50
Philip E Havens	Local	Legal Services	2,840.53
Iowa Office Supply Inc	Local	Supplies	2,080.00
Long Lines	Local	Fax Line & Emergency Line Service	1,517.95
A & A Automotive	Local	Bearing Replacement	1,141.04
Central Bank	Local	Services	1,089.12
Storm Lake Hydraulics Co, Inc	Local	Couplers	893.51
Larson Oil & Distributing Co, Inc	Local	Supplies	769.45
Graham Tire	Local	New Tire	747.39
Stanton Electric, Inc	Local	Exhaust Fan Repairs	684.94
Storm Lake Ace Hardware	Local	Supplies	565.64
Fastenal Company	Local	Hooks	410.61
Vanish LLC	Local	Towning Services	400.00
Rebnord Technologies, Inc	Local	MICR Toner	389.95
Plumbing & Heating Wholesale, Inc	Local	Faucet	367.63
Graffix Inc	Local	Pens	348.48
Fareway Stores, Inc	Local	Supplies	344.52
The Storm Lake Times	Local	April 2022 Publications	330.73
Graffix Inc	Local	SL Proud Tags with Rings	325.00
Dianne Johnson	Local	Bd & Disp Cats/Dogs	255.00
Fareway Stores, Inc	Local	Supplies	214.92
North Lake Truck Repair	Local	Injector Repairs	202.94
McCrea Eneterprises	Local	Paint	176.90
Plumbing & Heating Wholesale, Inc	Local	Adaptor	149.81
Fastenal Company	Local	Supplies	144.54
Reding's Gravel & Excavating Co., Inc	Local	Scale Fees	144.00

Vendor Name	Buy Local Info	Payable Description	Total Payments
McCrea Eneterprises	Local	Paint	141.75
Vetter Equipment	Local	Campground Supplies	141.02
Qwest Corporation	Local	Phone Service	135.09
Dennis R Julius	Local	Entrance Mat Services	115.30
Iowa Office Supply Inc	Local	Toner	111.18
A & A Automotive	Local	Serviced P-10	109.88
Comes Investments, Inc	Local	Services	95.57
King's Pointe Resort	Local	Services	93.00
Stanton Electric, Inc	Local	Water Heater Repairs	93.00
A & A Automotive	Local	Serviced P-8	90.84
Visual Edge Inc	Local	Copier Maintenance Agreement	90.56
A & A Automotive	Local	Serviced P-4	83.47
Plumbing & Heating Wholesale, Inc	Local	Plugs	78.50
Stanton Electric, Inc	Local	2 Fixtures	151.40
A & A Automotive	Local	Serviced P-15	69.61
Visual Edge Inc	Local	Copier Maintenance Agreement	66.36
Rent-All, Inc	Local	Lift Rental	60.00
Michael P. Reinert	Local	Tubing	59.00
A & A Automotive	Local	Serviced P-14	48.97
Stille Pierce & Pertzborn	Local	Add '15 Colorado	48.00
Dennis R Julius	Local	Laundry Services	46.50
Iowa Office Supply Inc	Local	Supplies	44.72
A & A Automotive	Local	Serviced P-5	44.18
Visual Edge Inc	Local	Copier Maintenance Agreement	41.11
Storm Lake Bakery	Local	5/3/2022 Coffee with a Cop	40.50
Plumbing & Heating Wholesale, Inc	Local	Valve	38.93
Visual Edge Inc	Local	Copier Maintenance Agreement	28.03
Michael P. Reinert	Local	Hinge	25.00
Culligan Water Storm Lake	Local	Water	24.75
Iowa Office Supply Inc	Local	Binder	20.40
Culligan Water Storm Lake	Local	Water Supplies	33.00
Plumbing & Heating Wholesale, Inc	Local	Covers	12.80
Paxtons Jewelry	Local	Engraving	12.25
L & G Products, Inc	Local	Supplies	9.15
		Local Total:	**58,392.97**
Non-Local			
MRA Custom Applications, LLC	Non-Local	Lime Sludge Hauling	12,313.51
Bachman's, Inc	Non-Local	Trees	9,316.00
Mississippi Lime Company	Non-Local	Lime	6,648.63
Lange Sign Group	Non-Local	Airport Sign Replacement	6,478.00
Bend Mailing Services, LLC	Non-Local	Bill Printing Services	2,798.50
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	2,721.50
Electric Pump Inc	Non-Local	Radio Park LS Pump	2,403.50
Tometich Engineering, Inc	Non-Local	Engineering Services	2,118.00
Builders Sharpening & Service LLC	Non-Local	Hyd Hose & Supplies	1,775.91
Pitney Bowes Inc	Non-Local	Postage	1,560.00
US Peroxide, LLC	Non-Local	Facility & Maintenance Agreement	1,500.00
Marcus Lumber Company Corp	Non-Local	Wood Supplies	1,326.60
Foundation Analytical Laboratory, Inc	Non-Local	Testing Services	1,686.75
Municipal Emergency Services, Inc	Non-Local	Helmets	831.50
Imagine the Possibilities, Inc	Non-Local	Janitorial Services	800.00
W. W. Grainger, Inc	Non-Local	HaxMat Suits	667.52
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	1,131.90
Iowa Law Enforcement Academy	Non-Local	Rifle Instructor School- McDonald	525.00
Breanna Nieland	Non-Local	Uniform	496.56
W. W. Grainger, Inc	Non-Local	Cartridge	476.88
Municipal Emergency Services, Inc	Non-Local	Helmets	453.25
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	313.00
Brodart Co.	Non-Local	Books	286.33
Pitney Bowes	Non-Local	Office Supplies	254.97

Vendor Name	Buy Local Info	Payable Description	Total Payments
W. W. Grainger, Inc	Non-Local	Light	481.38
Sioux Sales Company	Non-Local	Duty Weapon	227.85
ICMA	Non-Local	Job Center Services	225.00
Midwest Tape, LLC	Non-Local	DVDs	206.11
Siouxland Turf Products	Non-Local	Chemicals	185.17
Sioux City Mercy Medical Clinic	Non-Local	4/21/2022 Physical- Kapirie	525.00
Paul Ascheman	Non-Local	5/3/2022 Evaluation	150.00
Dale Vitito	Non-Local	Uniform	143.89
W. W. Grainger, Inc	Non-Local	Blower	138.93
Midwest Tape, LLC	Non-Local	DVDs	134.94
UnityPoint Clinic- Occupational Medicine	Non-Local	Testing Services	126.00
Dale Vitito	Non-Local	Uniforms	119.90
W. W. Grainger, Inc	Non-Local	Supplies	114.78
Midwest Tape, LLC	Non-Local	DVDs	113.20
Dale Vitito	Non-Local	Uniforms	110.90
Environmental Resource Associates	Non-Local	Testing Services	108.47
Marcus Lumber Company Corp	Non-Local	Brownwood	108.00
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	107.20
ABC Pest Control, Inc	Non-Local	Pest Control Services	105.00
Salus LLC	Non-Local	Memberships	100.00
Dale Vitito	Non-Local	Uniforms	84.94
Brodart Co.	Non-Local	Books	84.03
Barnes & Noble Booksellers, USA Inc	Non-Local	Books	75.95
Iowa Utility Association	Non-Local	DEV2022 Conference Registration- Dutfield	75.00
Dale Vitito	Non-Local	Uniforms	127.90
Davis Equipment Corporation	Non-Local	Supplies	60.50
Northwest Iowa League of Cities	Non-Local	4/21/2022 Meeting Registration	60.00
Ed M. Feld Equipment Company, Inc	Non-Local	Battery	59.62
Ingram Library Services, Inc	Non-Local	Books	57.32
Midwest Tape, LLC	Non-Local	DVDs	56.22
Hach Company	Non-Local	Testing Supplies	46.76
Sioux City Mercy Medical Clinic	Non-Local	4/26/2022 Urinalysis- Lundberg	41.61
Marcus Lumber Company Corp	Non-Local	Supplies	41.35
Baker & Taylor, Inc	Non-Local	Books	39.43
Ingram Library Services, Inc	Non-Local	Books	36.81
Midwest Tape, LLC	Non-Local	DVDs	33.73
Universal Credit Services, Inc	Non-Local	Background Checks	31.52
Secretary of State	Non-Local	2022 Notary Renewal- Cole	30.00
Brodart Co.	Non-Local	Books	21.29
Siouxland Turf Products	Non-Local	Chemicals Returned	-166.00
	Non-Local Total:	**63,313.51**	
Payroll/Refunds			
Mitch McDonald	Payroll/Refunds	Firearms Training Travel Reimb	208.23
Matthew Younie	Payroll/Refunds	Camp Dodge Training- Younie Travel Reimb	155.00
Viarnet Morel Marte	Payroll/Refunds	Curb Cutting Permit Refund	150.00
Beth Ann Dawson McPherren	Payroll/Refunds	April 2022 Homebound Deliveries	4.39
	Payroll/Refunds Total:	**517.62**	
	Grand Total:	**203,660.72**	

ALCOHOLIC BEVERAGES DIVISION State of Iowa

State of Iowa
Alcoholic Beverages Division

Applicant

NAME OF LEGAL ENTITY	NAME OF BUSINESS(DBA)	BUSINESS
Comes Investments, Inc.	Pizza Hut	(712) 732-4051

ADDRESS OF PREMISES	PREMISES SUITE/APT NUMBER	CITY	COUNTY	ZIP
115 E Milwaukee Ave		Storm Lake	Buena Vista	50588-0000

MAILING ADDRESS	CITY	STATE	ZIP
2045 GRAND AVE	WEST DES MOINES	Iowa	50265

Contact Person

NAME	PHONE	EMAIL
Joe Comes	(515) 330-1172	joecomes@mac.com

License Information

LICENSE NUMBER	LICENSE/PERMIT TYPE	TERM	STATUS
BB0025674	Class B Beer Permit	12 Month	Submitted to Local Authority

TENTATIVE EFFECTIVE DATE	TENTATIVE EXPIRATION DATE	LAST DAY OF BUSINESS
July 1, 2022	June 30, 2023	

SUB-PERMITS

Class B Beer Permit

State of Iowa
Alcoholic Beverages Division

PRIVILEGES

Sunday Service

Status of Business

BUSINESS TYPE

Privately Held Corporation

Ownership

- **Individual Owners**

NAME	CITY	STATE	ZIP	POSITION	% OF OWNERSHIP	U.S. CITIZEN
JOSEPH COMES	clive	Iowa	50325	owner	100.00	Yes
JOSEPH COMES	CLIVE	Iowa	50325	PRESIDENT/OWNER		Yes

Insurance Company Information

INSURANCE COMPANY	POLICY EFFECTIVE DATE	POLICY EXPIRATION DATE
Wadena Insurance Company	July 1, 2022	June 30, 2023

DRAM CANCEL DATE	OUTDOOR SERVICE EFFECTIVE DATE	OUTDOOR SERVICE EXPIRATION DATE

BOND EFFECTIVE DATE	TEMP TRANSFER EFFECTIVE DATE	TEMP TRANSFER EXPIRATION DATE

M E M O R A N D U M

TO: MAYRA MARTINEZ

FROM: CHRIS COLE

DATE: May 12, 2022

REFERENCE: LIQUOR LICENSE RENEWAL
PIZZA HUT
115 E MILWAUKEE AVE

Discussion: Per your request I have accessed the department computer for calls of interest to the aforementioned establishment. The calls are as follows:

	4-23-2019 to 4-19-2020	4-20-2020 to 5-9-2022
INCIDENTS		
911 Hang up call	0	2
Accident	0	2
Ambulance Call	0	1
Animal Call	0	2
Business Security	47	97
Citizen Assist	0	2
City Code Enforcement	0	1
Criminal Mischief	0	1
Drug Investigation	0	1
Hit and Run	1	0
Investigation	1	0
Juvenile Problem	1	0
Keys Locked In Car	3	2
Lost Property	0	1
Open Door or Window	1	5
PR/Talk/Presentation	1	3
Scam	0	1
Suspicious Vehicle	0	1
Theft	1	0
Vandalism	0	1
Vehicle Stop	12	18
Warrant Service	1	1
ARRESTS		

Possession of Drug Paraphernalia	1	0
Possession with intent to deliver	1	0

Recommendation: Approval of liquor license.

State of Iowa
Alcoholic Beverages Division

Applicant

NAME OF LEGAL ENTITY	NAME OF BUSINESS(DBA)	BUSINESS
SOFI'S BAKERY, LLC	Delicias	(712) 213-3716

ADDRESS OF PREMISES	PREMISES SUITE/APT NUMBER	CITY	COUNTY	ZIP
North Lake Avenue		Storm Lake	Buena Vista	50588

MAILING ADDRESS	CITY	STATE	ZIP
1114 630th Street	Storm Lake	Iowa	50588

Contact Person

NAME	PHONE	EMAIL
Alberto Tello	(641) 373-2171	alberto@tellollc.com

License Information

LICENSE NUMBER	LICENSE/PERMIT TYPE	TERM	STATUS
	Class C Liquor License	12 Month	Submitted to Local Authority

TENTATIVE EFFECTIVE DATE	TENTATIVE EXPIRATION DATE	LAST DAY OF BUSINESS
Jan 21, 2022	Jan 20, 2023	

SUB-PERMITS

Class C Liquor License

State of Iowa
Alcoholic Beverages Division

PRIVILEGES

Sunday Service

Status of Business

BUSINESS TYPE

Limited Liability Company

Ownership

- **Individual Owners**

NAME	CITY	STATE	ZIP	POSITION	% OF OWNERSHIP	U.S. CITIZEN
Alberto Tello	Storm Lake	Iowa	50588	Owner	100.00	No

Insurance Company Information

INSURANCE COMPANY	POLICY EFFECTIVE DATE	POLICY EXPIRATION DATE
Farm Bureau Financial Services	Jan 21, 2022	Jan 21, 2023

DRAM CANCEL DATE	OUTDOOR SERVICE EFFECTIVE DATE	OUTDOOR SERVICE EXPIRATION DATE

BOND EFFECTIVE DATE	TEMP TRANSFER EFFECTIVE DATE	TEMP TRANSFER EXPIRATION DATE

May 10, 2022

Chris Cole
Chief of Police, City of Storm Lake
401 East Milwaukee
Storm Lake, Iowa 50588

Dear Chief Cole,

On behalf of the Star Spangled Spectacular Committee, We request the proper permits and variances necessary for activities planned for July 3rd and 4th, 2022. As with prior years, we respectfully request from the City of Storm Lake the following:

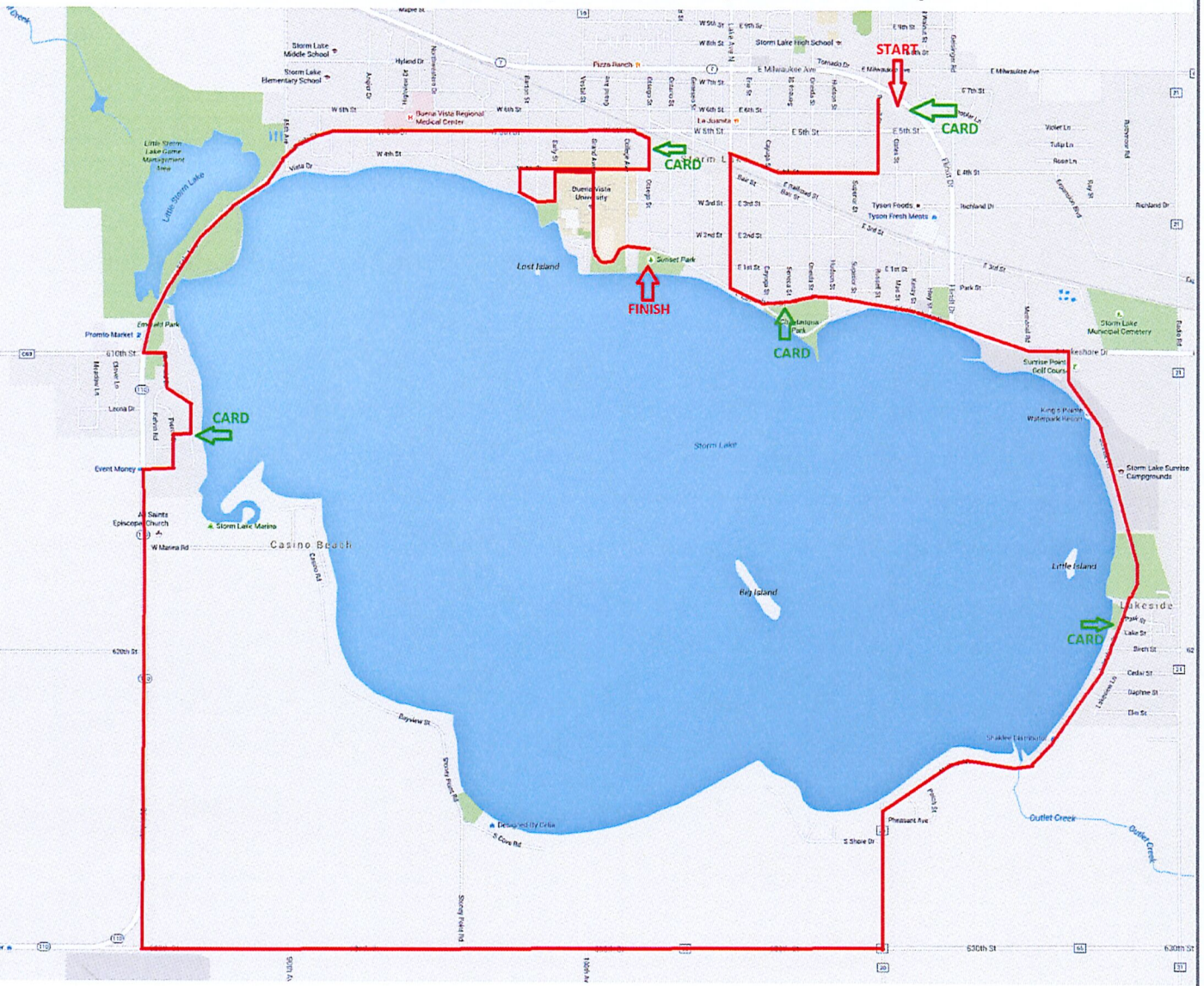
1. Noise variance on July 3rd from 7am-12am and on July 4th from 7:00am to 11:30pm for Sunset Park and Chautauqua Park.
2. Use of Chautauqua Park and Sunset Park all day on July 3rd and 4th.
3. Assistance for the classic car parade the evening of July 3rd for the route submitted to the Storm Lake Police Department.
4. Permit for the Ride/Run for 7:00am July 4th for the route submitted to the Storm Lake Police Department.
5. Parade Permit for 10:30am July 4th. The parade will start at the corner of Lakeshore Drive and College Avenue, ending at the intersection of Hudson and 3rd Streets.
6. Appropriate support from the City of Storm Lake Street Department, Parks Department and Department of Public Safety as required.
7. Fireworks permit issued by the City of Storm Lake Fire Chief. Fireworks are scheduled for dusk on July 4th with a rain date of July 9th. Fireworks will be shot off the jetty at Chautauqua Park.
8. Permission for inflatables to be used within the event venues (this is provisional at this point as we have not yet booked the vendor)
9. Permission to construct a temporary second stage in front of the band shell in Sunset Park.
10. Permission for food and arts/crafts with the event venues.
11. Permission to block access to streets and alleys listed on the attached sheets on July 4th from 6:00am until 5:00pm and on Chautauqua Park Road as needed post-fireworks.

Thank you for your kind assistance,

Brandon Frank & Jeff Bowles
2022 Commodores
Star Spangled Spectacular

2022 SSS Car Cruise – July 3rd

Begin assembling at 4:00pm and start parade at 4:45pm



1. Assemble at Prairie Lakes AEA Building, 824 Flindt Dr. (next to Dairy Queen)
    a. **Poker Run – Card A**
2. Left (South) onto Russell Street at 4:45pm
3. Right (West) onto 4th Street
4. Continue on 4th street as it turns to Railroad
5. Left (South) onto Lake Avenue
6. Left (East) onto Lakeshore
    a. **Poker Run – Card B (chautauqau park – parking)**
7. Continue east past King's Pointe Resort
8. Right (South) onto Sunrise Park Road
    a. **Poker Run – Card C (ABC Park – Lakeside)**
9. Continue through Lakeside on Lakeshore Drive
10. Continue on Lakeshore Drive to Mallard Drive
11. Left (South) onto 110th Ave at Bel-Air Beach
12. Right (West) onto C-65
13. Right (North) on 85th Avenue at the Airport
14. Continue North as 85th Avenue joins Highway 110
15. Right (East) onto Howard Road (South end of Emerald Park)
16. Left (North) onto Pierce Drive
17. Right (East) onto Parlina Lane
18. Left (North) onto Emerald Drive
    a. **Poker Run – Card D (Corner of Parlina and Emerald Dr.)**
19. Continue on Emerald Drive through Emerald Park to Highway 110
20. Right (North) onto Highway 110
21. Continue east onto West 5th Street
22. Right (South East) onto Otsego Street
23. Pull through Driveway at Otsego Place
    a. **Poker Run – Card E (Otsego Place)**
24. South on Otsego Street
25. Right (West) onto West 4th Street
26. Left (South) onto Barton Street
27. Follow Barton Street Past Lake Pointe Villa to Lighthouse Drive
28. Left (East) onto Lighthouse Drive
29. Left (North) onto Early Street
30. Right (East) onto West 4th Street
31. Right (South) onto Grand Avenue
32. Continue on Grand Avenue as it transitions to West Lakeshore Drive past Circle Park
33. Follow West Lakeshore Drive to the West End of Sunset Park

2022 SSS Car Cruise – July 3rd

Begin assembling at 4:00pm and start parade at 4:45pm

1. Assemble at Prairie Lakes AEA Building, 824 Flindt Dr. (next to Dairy Queen)
    a. **Poker Run – Card A**
2. Left (South) onto Russell Street at 4:45pm
3. Right (West) onto 4th Street
4. Continue on 4th street as it turns to Railroad
5. Left (South) onto Lake Avenue
6. Left (East) onto Lakeshore
    a. **Poker Run – Card B (chautauqau park – parking)**
7. Continue east past King's Pointe Resort
8. Right (South) onto Sunrise Park Road
    a. **Poker Run – Card C (ABC Park – Lakeside)**
9. Continue through Lakeside on Lakeshore Drive
10. Continue on Lakeshore Drive to Mallard Drive
11. Left (South) onto 110th Ave at Bel-Air Beach
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15. Right (East) onto Howard Road (South end of Emerald Park)
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17. Right (East) onto Parlina Lane
18. Left (North) onto Emerald Drive
    a. **Poker Run – Card D (Corner of Parlina and Emerald Dr.)**
19. Continue on Emerald Drive through Emerald Park to Highway 110
20. Right (North) onto Highway 110
21. Continue east onto West 5th Street
22. Right (South East) onto Otsego Street
23. Pull through Driveway at Otsego Place
    a. **Poker Run – Card E (Otsego Place)**
24. South on Otsego Street
25. Right (West) onto West 4th Street
26. Left (South) onto Barton Street
27. Follow Barton Street Past Lake Pointe Villa to Lighthouse Drive
28. Left (East) onto Lighthouse Drive
29. Left (North) onto Early Street
30. Right (East) onto West 4th Street
31. Right (South) onto Grand Avenue
32. Continue on Grand Avenue as it transitions to West Lakeshore Drive past Circle Park
33. Follow West Lakeshore Drive to the West End of Sunset Park

Follow Parking directions given by parking director upon entering Sunset Park.

Staff Summary

5/16/2022
Agenda Item # B.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Mayra Martinez, City Clerk

SUBJECT: **Buy Local Information**

BACKGROUND: Early in 2011 during a Study Session discussion Council asked staff to look at putting together some analysis information regarding the amount of purchases made locally. We have pulled that information together and a provided a summary of purchases identified in the current list of bills to be approved that are purchased locally (within the City of Storm Lake), within Buena Vista County, and outside of Buena Vista County are presented here for Council's review. This information is presented for for both the City and King's Pointe's bills.

As the reader reviews the information they should note the following key notes:

- Costs associated with any major capital project (those bid under the State of Iowa Bid Law) are excluded from the calculation
- Costs associated with travel is excluded from the calculation and %
- Costs associated with payroll is excluded from the calculation and %
- In some cases there is only one vendor or an item is only available from vendors outside of the City limits and/or Buena Vista County – we have not identified these
- Some departments have fairly minor budgets and a major purchase can skew the % and or amount for a given review period (For Example: the Airport may have normally $4,000 - $6,000 in expenses until they purchase Jet Fuel or Av Gas which can be $10,000 + and as a vendor who is not local this can skew the information for that review period)
- Local has been determined to be has an office front in the

area and based on where the office front is located for local vs. BV County (For Example: Wal-Mart is considered local since they have a store in Storm Lake even though their headquarters is not located here)

As with all analytical data it is possible to interpret the numbers in a variety of ways and as we move forward we would be happy to provide further detail and or revise the way in which we show the data.Likewise if you have any questions or concerns please don't hesitate to contact city staff.

FISCAL IMPACT:

Breakout	Calculated Expenses
Buena Vista County	$ 3,505.17
Contract/Agreement	$77,931.45
Local	$ 58,392.87
Non- Local	$ 63,313.51
Payroll/Refunds/Pyrl Tax & Ins	$126,472.09
Total Expenses	$329,615.09
Supporting Documents Attached	

RECOMMENDATION: Review Buy Local Information

ATTACHMENTS:

Description	Type
Project Activity Report	Backup Material

Summary

Project Summary

Project Number	Project Name	Total Budget	Date Range Budget	Beginning Balance	Total Activity	Ending Balance	Budget Remaining
01112-0019	WasteWater Treatment Facility Wetlan...	1,173,565.00	0.00	1,170,187.96	0.00	1,170,187.96	3,377.04
01112-0020	10th & Ontario StormWater Improvem...	1,753,734.33	0.00	1,752,412.45	0.00	1,752,412.45	1,321.88
01112-0021	4th & Oats StormWater Improvements	832,997.63	0.00	833,347.35	0.00	833,347.35	-349.72
0P1.122814	Richland Street, Phase 2 Improvements	165,500.00	165,500.00	174,095.25	0.00	174,095.25	-8,595.25
0P1.125106	BRIC	7,978,418.00	7,978,418.00	106,516.49	0.00	106,516.49	7,871,901.51
16-19284	4th & Bartion Storm Water Improvemen..	760,113.88	0.00	757,662.80	0.00	757,662.80	2,451.08
18-CF-004	United Community Health Service Center	600,000.00	0.00	561,683.60	0.00	561,683.60	38,316.40
19-22797	Memorial Lift Station Improvements	2,533,320.00	877.16	2,393,096.75	5,533.32	2,398,630.07	134,689.93
20-23848	Storm Lake WTP- Electrical MCC Replac...	268,494.81	0.00	273,065.01	270.00	273,335.01	-4,840.20
20-24387	Radio Park Lift Station Replacement	568,639.68	568,639.68	423,390.49	170.00	423,560.49	145,079.19
20-HSG-022	2021 Housing Sustainability Project	110,812.00	110,812.00	89,919.12	0.00	89,919.12	20,892.88
35665	1st & Mae Street	764,059.53	0.00	762,737.66	0.00	762,737.66	1,321.87
8406	7th & Geneseo St Sanitary Sewer Impro...	410,306.35	0.00	408,984.48	0.00	408,984.48	1,321.87
IA0091	SL Elevated Water Storage- Tower #5	541,762.00	541,762.00	8,025.00	1,206.25	9,231.25	532,530.75
New 2	FEMA Hazard Mitigation Assistance (W...	48,600.00	48,600.00	0.00	0.00	0.00	48,600.00
New 3	Storm Lake WTP- Well No. 21	131,000.00	131,000.00	0.00	0.00	0.00	131,000.00
New 4	W 6th Street Utilities Extension	75,500.00	75,500.00	0.00	4,370.00	4,370.00	71,130.00
OP1.125220	4th Street Watermain Improvement Pro...	391,937.00	391,937.00	58,554.00	0.00	58,554.00	333,383.00
P11.112742	North Central SW Phase II	1,854,441.25	0.00	1,853,147.38	0.00	1,853,147.38	1,293.87
P11.117908	Michigan Street Parking Lot Reconstruct...	408,199.80	0.00	453,347.70	0.00	453,347.70	-45,147.90
P11.118940	Oneida Street Reconstruction from RR t...	2,567,760.12	4,406.76	2,460,894.08	0.00	2,460,894.08	106,866.04
P11.119679	FEMA Lake Bank Restoration	117,831.01	0.00	123,185.51	0.00	123,185.51	-5,354.50
P11.120411	Highway 7/110 Traffic Lane/Signalization	4,598,729.85	114,968.25	400,226.37	29,835.00	430,061.37	4,168,668.48
P11.120478	Tulip Lane SW Improvements	443,607.50	8,369.96	440,789.42	0.00	440,789.42	2,818.08
P11.120650	2020 Expansion Blvd Improvements	1,125,878.60	0.00	1,161,566.01	0.00	1,161,566.01	-35,687.41
P11.122266	7th Street Sewer Lining/2021 CIPP	514,861.25	514,861.25	485,364.15	0.00	485,364.15	29,497.10
T51.119823	Runway 13/31 & Taxiway Lighting	459,190.70	0.00	459,190.70	0.00	459,190.70	0.00
Urban20WQI-004	SLHS Courtyard Conservation	119,097.86	119,097.86	115,439.86	0.00	115,439.86	3,658.00
	Report Total:	**31,318,358.15**	**10,774,749.92**	**17,726,829.59**	**41,384.57**	**17,768,214.16**	**13,550,143.99**

Group Summary

Group	Total Budget	Date Range Budget	Beginning Balance	Total Activity	Ending Balance	Budget Remaining
Airport Projects	459,190.70	0.00	459,190.70	0.00	459,190.70	0.00
ARPA Project	541,762.00	541,762.00	8,025.00	1,206.25	9,231.25	532,530.75
Building Resilient Infrastructure and Co...	7,978,418.00	7,978,418.00	106,516.49	0.00	106,516.49	7,871,901.51
Economic Development	1,023,240.87	305,409.86	890,228.09	4,370.00	894,598.09	128,642.78
National Resiliency Disaster Grant Proje...	8,507,686.72	523,231.21	8,464,633.65	0.00	8,464,633.65	43,053.07
Sanitary Sewer Projects	3,150,559.68	618,116.84	2,816,487.24	5,703.32	2,822,190.56	328,369.12
Street Construction	8,866,068.37	284,875.01	4,650,129.41	29,835.00	4,679,964.41	4,186,103.96

Staff Summary

5/16/2022
Agenda Item # C.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Keri Navratil, City Manager

SUBJECT: **Alliant Energy Easement Discovery Center**

BACKGROUND: Alliant Energy is planning to invest in significant upgrades to gas line infrastructure in Storm Lake. One major project will be to relocate and upsize a regulation station that serves the west side of Storm Lake. The most suitable and safe location for this station is at the Discovery Center. The station will not impede parking or recreation and will be fenced for security purposes.

FISCAL IMPACT: $1.00

RECOMMENDATION: Approve easement per the franchise agreement.

ATTACHMENTS:

	Description	Type
🗋	Gas Pipeline Easement	Contract

Prepared By: Interstate Power and Light Company – PO Box 351 - Cedar Rapids, IA 52406 (319) 786-
Return To: Interstate Power and Light Company – PO Box 351 - Cedar Rapids, IA 52406 (319) 786-

SAVE ABOVE THIS LINE FOR RECORDER

GAS PIPELINE EASEMENT

(IPL as Grantee)

For and in consideration of the sum of One Dollar ($1.00) and other valuable consideration, the receipt of which is hereby acknowledged, **City of Storm Lake** ("Grantor(s)"), **ADDRESS PO Box 1086 Storm Lake, Iowa 50588** do(es) hereby warrant and convey unto Interstate Power and Light Company, an Iowa Corporation, its successor and assigns, ("Grantee"), a perpetual easement with the right, privilege and authority to construct, reconstruct, maintain, operate, repair, patrol and remove a pipeline or lines for the transportation and distribution of gas, steam and other substances, consisting of necessary fixtures, equipment and for communication and electrical controls, including the necessary appurtenances under and on the surface of the ground used or useful for all Corporate purposes, together with the power to extend to any other party the right to use, jointly with the Grantee and pursuant to the provisions hereof, upon, under, over and across the following described lands located in the County of Buena Vista, and the State of Iowa:

See Attached Exhibit "A", page 3

together with all the rights and privileges for the full enjoyment or use thereof for the aforesaid purpose.

Grantor(s) agrees that it will not construct or place any buildings, structures, plants or other obstructions on the property described above.

Grantor(s) also conveys the right and privilege to trim, cut down or control the growth of any trees or other vegetation on said described land and such other trees and vegetation adjacent thereto as in the judgment of the Grantee may interfere with construction, reconstruction, maintenance, operation, repair or the use thereof.

Grantee, its contractor or agent, may enter said premises for the purpose of making surveys and preliminary estimates immediately upon the execution of this easement.

The Grantor(s) also grants to the Grantee the right of ingress and egress to said line or lines, over/under lands now owned by the Grantor(s), for the purpose of constructing, reconstructing, maintaining, operating, patrolling, repairing and removing said line or lines, and the Grantee agrees to pay to the Grantor(s) or its tenants all damages done to the lands (except the cutting and trimming of trees or other vegetation), including crops, field tiles, terraces, fences, equipment or livestock of the Grantor(s) or its tenants, by the Grantee or its employees while constructing, reconstructing, patrolling or repairing said line or lines.

Signed this _____ day of _____, 2022.

GRANTOR(S)
City of Storm Lake

By:_____
Signor:

By:_____
Signor:

ALL PURPOSE ACKNOWLEDGMENT

STATE OF_____)

COUNTY OF_____) ss:

On this _____ day of _____, AD. 2022, before me, the undersigned, a Notary Public in and for said State, personally appeared

_____

_____

_____

_____to me personally known

or _____provided to me on the basis of satisfactory evidence

to be the persons(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

NOTARY SEAL_____
(Sign in Ink)

_____
(Print/type name)

Notary Public in and for the State of _____

CAPACITY CLAIMED BY SIGNER

_____ INDIVIDUAL
_____ CORPORATE
Title(s) of Corporate Officers(s):

_____

_____

_____ N/A
_____ Corporate Seal is affixed
_____ No Corporate Seal procured

_____ PARTNER(s)
_____ Limited Partnership
_____ General Partnership

_____ ATTORNEY-IN-FACT
_____ EXECUTOR(s),
_____ ADMINISTRATOR(s),
_____ or TRUSTEE(s):
_____ GUARDIAN(s)
_____ or CONSERVATOR(s)
_____ OTHER

_____

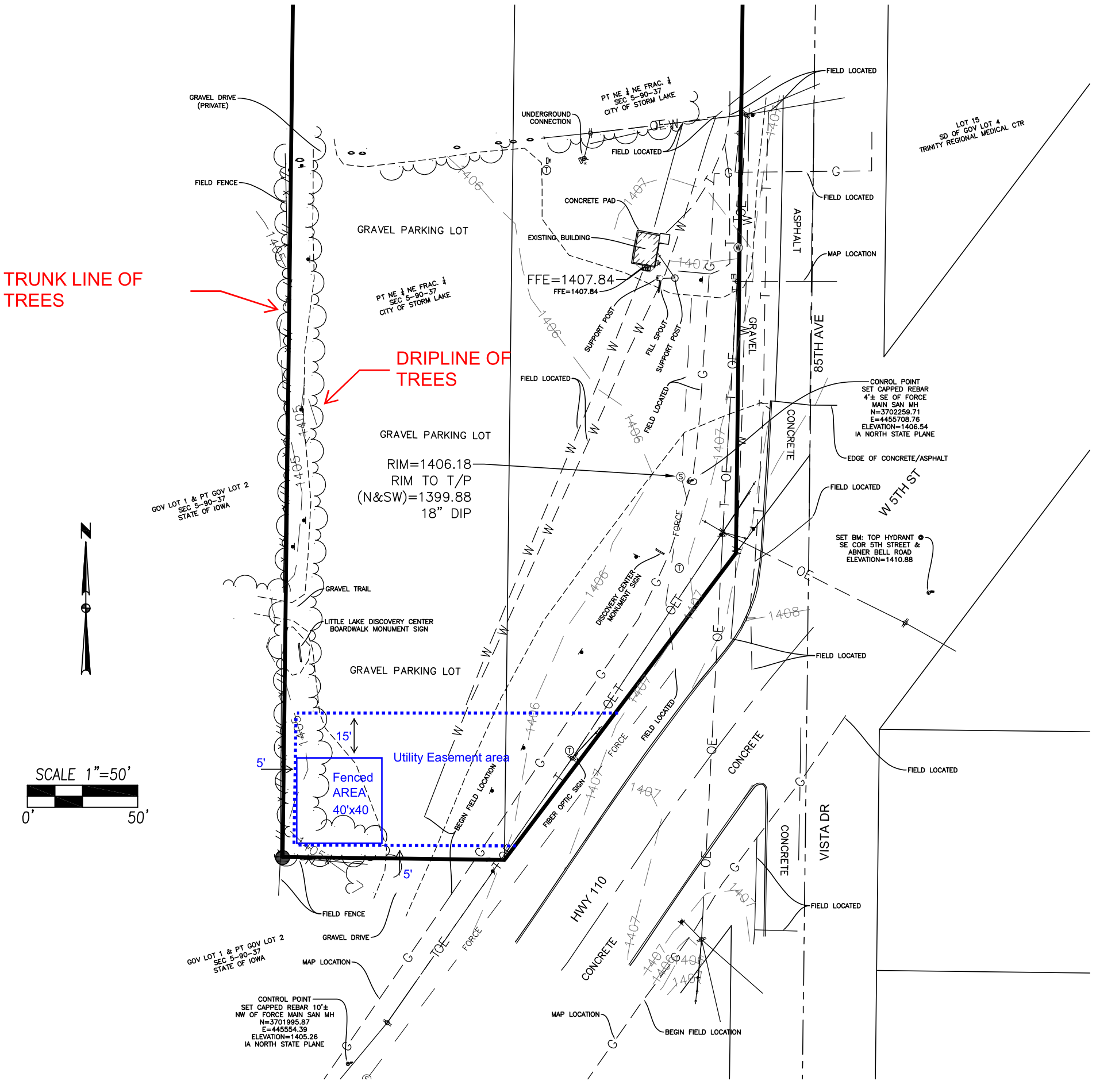
_____

SIGNER IS REPRESENTING:
List name(s) of persons(s) or entity(ies):

City of Storm Lake

_____

SURVEY EXHIBIT



LEGEND

	FOUND	SET
SECTION CORNER AS NOTED	▲	△
1/2" REBAR, YELLOW CAP #15980 (UNLESS OTHERWISE NOTED)	●	○
MEASURED BEARING & DISTANCE	M	
RECORDED BEARING & DISTANCE	R	
DEEDED BEARING & DISTANCE	D	
MINIMUM PROTECTION ELEVATION	MPE	
PUBLIC UTILITY EASEMENT	P.U.E.	
CENTERLINE		
SECTION LINE		
EASEMENT LINE		
TELEPHONE LINE	T	
CABLE TELEVISION LINE	TV	
FIBER OPTICS LINE	OF	
WATERMAIN	W	
STORM SEWER	ST	
SANITARY SEWER	S	
STREET LIGHT		
DECIDUOUS TREE		
WOOD FENCE		
GAS LINE	G	
ELECTRIC LINE	E	
OVERHEAD ELECTRIC LINE	OE	
GAS MANHOLE	G	
MONITORING WELLS	MW	
FLARED END SECTION		
TRAFFIC SIGNAL CONTROL	TR	
CLEANOUT	CO	
GAS APPARATUS	P-TANK	
AIR CONDITIONER	AC	
TELEPHONE PEDESTAL	T	
WATER VALVE	W	
FIRE HYDRANT		
ELECTRIC TRANSFORMER	E	
ELECTRIC METER BOARD	E	
MAIL BOX	M	
SIGN		
POWER POLE		
TELEVISION PEDESTAL	TV	
SANITARY SEWER MANHOLE	S	
STORM SEWER MANHOLE	ST	
ROUND STORM SEWER INTAKE		
STORM SEWER INTAKE		
FLAG POLE	FP	
SPRINKLER BOX	SB	
BUSH		
CONIFEROUS TREE		
OVERHEAD LIGHT		
HANDICAPPED PARKING		
ROOF DRAIN	RD	
TRAFFIC LIGHT		
SEPTIC TANK	S	
YARD LIGHT		

UTILITY WARNING

ANY UTILITIES SHOWN HAVE BEEN LOCATED FROM MAPS AND RECORDS OBTAINED BY THIS SURVEYOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION SHOWN.

DATE OF SURVEY

3-14-2022

FILE: N:\2022\2202084\DWG\2202084-BOUNDARY.DWG
REF XREF: 2202084-BOUNDARY.DWG
PLOTTED BY: MIKE BROOKER
DATE PLOTTED: 3/30/2022 8:17 AM
TECH:
COMMENT:
ENG:

4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
PHONE: (515) 369-4400 FAX: (515) 369-4410

DATE	REVISIONS	PREPARED
		3-20-22

ENGINEER: | TECH: | REVIEW:

ALLIANT ENERGY
WR 4267184110 DRS 41542
STORM LAKE, IOWA

CIVIL DESIGN ADVANTAGE

1/1

2202.084

Staff Summary

5/16/2022
Agenda Item # D.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Tyler Gibbins, Staff Accountant

SUBJECT: **Resolution No. 75-R-2021-2022 Amending the Fee Resolution for Chautauqua Shelter House Rental and Sunrise Pointe Golf Course**

BACKGROUND: The item will amend the fees for the rental of the Chautauqua Park Shelter House Rental and the Sunrise Pointe Golf Course. Changes include:

Golf Course Hall Rental Bar Setup Fee
This is a new fee which will only apply to the booking of events on the event center side of the facility. There will be a $100 fee to offset the costs associated with the additional service needs during events.

Group Golf Rates (Golf Outings)
This is a housekeeping change to make the tiered structure less ambiguous and allow the course to set their tournament rates for the season. This change includes language that the rates only include golf, cart rentals and trail fees are handled separately by fee resolution. This also removes the 0-25 category and expands the first category to 0-50 participants.

Chautaqua Shelter House Rental Fees
Due to increased costs to clean and maintain the shelter house after each rental, this fee change increases rental rates to $110 per side. This will remove the $55 reduced rate for Monday - Thursday.

Chautaqua Shelter House Damage Deposit
This fee is currently in place to help offset the costs associated with any damages done to the facility during a rental. These damage deposits are returned to the renter if damages are

unfound. It is recommended to increase the damage deposit from $100 to $200 per side.

FISCAL IMPACT: Both facility fee changes will increase revenue to help offset increasing costs associated with offering services to the public.

RECOMMENDATION: Approve Resolution No. 75-R-2021-2022.

ATTACHMENTS:

	Description	Type
🗋	Resolution No. 75-R-2021-2022	Resolution

RESOLUTION NO. 75-R-2021-2022

RESOLUTION SETTING FINES AND FEES

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF STORM LAKE, IOWA that the following schedule of fees are approved and effective as of the date of this resolution.

Administration	**Fee**	**Code Section**	
Administrative Fee	$30.00		
City Code Subscription (yearly)	$50.00		
Garbage Truck Permits (per business)	$100.00	3-1-5	
Insufficient Check Fee	$30.00		
New Friends List	$10.00		
Peddlers Transient Merchant Permit (1 Day)	$25.00	4-3-6	
Investigation Fee	$25.00	4-3-4	
Peddlers Transient Merchant Permit (1 Week)		$75.00	4-3-6
Investigation Fee	$25.00	4-3-4	
Transient Merchant Permit (28 days)	$150.00		
Investigation Fee	$25.00		
Solicitors Permit (per person)	$2.00	4-3-6	
Solicitors Permit (principal) (1 day)	$25.00	4-3-6	
Investigation Fee (per organization)	$25.00	4-3-4	
Investigation Fee (per Individual soliciting)		$5.00	
Solicitors Permit (principal) (1 week)	$75.00	4-3-6	
Investigation Fee	$25.00	4-3-4	
Investigation Fee (per Individual soliciting)		$5.00	
Solicitors Permit (principal) (28 days)	$150.00		
Investigation fee (per organization)	$25.00		
Investigation Fee (per Individual soliciting)		$5.00	
Taxi Permit (Business)	$100.00	4-5-3	
Taxi Permit (per vehicle)	$10.00	4-5-3	
Cancel Permit Fee	$25.00		
Freedom of Information Requests (FOIA Request)			
Single Sided Copy 8.5x11	$.30/page		
Duplex copy 8.5x11	$.40/page		
Single Sided Legal	$.35/page		
Duplex Legal copy	$.45/page		
Single Sided Ledger (11x17)	$.70/page		
Single Sided Ledger with Color Print	$.90/page		
Duplex Ledger (11x17)	$.80/page		
Duplex Ledger with Color Print	$1.00/page		
Large Format Prints (one side only and in color)	$8.00/page		
CD Cost (for requests that ask for the files digitally on a CD)	$10.00		
Research Hourly Rate – per hour/per person	$25.00		
Mailing Costs – 3 pages	$1.00		
Mailing Costs – 50 pages	$5.00		
Mailing Costs – 100 pages	$10.00		

Special City Council Meeting	$250.00	
Downtown Parking Space Rental Fees (specific lots)		
Per quarter (paid quarterly)	$75.00	
Per six months (paid bi-annually)	$112.50	
Annually (paid annually)	$150.00	

Airport Hangar Rent (monthly fees)

Hangar A	$75.00	
12 Month Lease Discount Rate	$65.00	
Hangar B	$75.00	
12 Month Lease Discount Rate	$65.00	
Hangar C (VT)	$400.00	
Hangar D	$92.00	
12 Month Lease Discount Rate	$80.00	
Hangar E	$110.00	
12 Month Lease Discount Rate	$95.00	
Hangar F	$156.00	
12 Month Lease Discount Rate	$135.00	
FBO Stall	$173.00	
12 Month Lease Discount Rate	$150.00	
Daily Inside Storage/per night	$30.00	

Building Official

Central Business District Bench & Flower Pot Permit	$25.00	
Driveway (Curb) Cut, Inspection & Marking Residential	$150.00	
Driveway (Curb) Cut, Inspection & Marking Commercial	$200.00	
ROW Temp Closure Permit	$25.00	
Building Moving Permit (Per Bldg)	$100.00	5-1-1
Demolition Permit	$50.00	
Pool Inspection	$20.00	8-8-11
Re-inspection Fee (after 1 per inspection)	$35.00	
No Show Fee (per event)	$50.00	
Rental Registration Fee – Yearly (July 1st – June 30th)		
Base Registration Fee (Structure and 1 unit)	$10.00	5-8-9
Additional unit in excess of 1 (per unit)	$5.00	5-8-9
Late Registration Fee - Per Landlord License		$50.00 5-8-9
Additional unit in excess of 1 (up to 6 units)	$50.00	
Property Maintenance Ordinance Appeal	$150.00	Zoning Ord.
Variance Request	$150.00	Zoning Ord.
Zoning Request	$200.00	Zoning Ord.
Conditional Use	$300.00	Zoning Ord.
Sub-Division Application Fee	$300.00	
Sidewalk Repair Permit Fee	$0	

New Construction Incentive		
Single Family Attached and Single Family Detached Dwelling (only valid from March 2, 2020 to December 31, 2020 with Council approval)	$1.00	

Building & Sign Permit Fees

Building & Sign Permit <$1,200	$22.02	5-2-2
Building & Sign Permit $1,200-2,000		5-2-2
$22.02 + $2.88 for each additional $100.00 over $1,200		
Building & Sign Permit $2,001-25,000		5-2-2
$45.06+ $9.16 for each additional $1,000.00 over $2,000		
Building & Sign Permit $25,001-50,000		5-2-2
$255.74 + $6.22 for each additional $1,000.00 over $25,000		
Building & Sign Permit $50,001-100,000		5-2-2
$411.24+ $4.15 for each additional $1,000.00 over $50,000		
Building & Sign Permit $100,001 or more		5-2-2
$618.74+ $3.61 for each additional $1,000.00 over $100,000		
Portable Sign Permit (14 days)	$30.00	Zoning Ord.

Electrical Fees

For New Residences		5-4-9
Single Dwelling	$38.00	
Duplex Dwelling	$56.75	
Triplex Dwelling	$75.50	
4-Plex Dwelling	$113.00	
Multi Units Between 5 and 12	$156.75	
Over 12 Units	$156.75 plus $38.00 each over 12	

For New Commercial or Industrial Buildings

First $5,000.00 at $8.00 per/$1,000.00 of cost
Second $5,000.00 at $6.75 per /$1,000.00 of cost
Third $5,000.00 at $5.50 per/$1,000.00 of cost
Fourth $5,000.00 at $4.25 per/$1,000.00 of cost
Fifth $5,000.00 at $3.00 per/$1,000.00 of cost
All over $25,000.00 at $1.50 per/$1,000.00 of cost

For Rewiring, Repairs or Alterations on Residence, Commercial and Industrial Buildings

$100.00 to $150.00 electric contract $6.75
$151.00 to $200.00 electric contract $8.00
$201.00 to $250.00 electric contract $9.25
$251.00 to $300.00 electric contract $10.50
$301.00 to $350.00 electric contract $11.75
$351.00 to $400.00 electric contract $13.00
$401.00 to $450.00 electric contract $14.25
$451.00 to $500.00 electric contract $15.50
$501.00 to $1,000.00 electric contract $23.00
$1,001.00 to $2,000.00 electric contract $28.00

All over $2,001.00 $28.00 plus $1.50 per $100.00

Plumbing Fees

For New Residences		5-3-10
Single Dwelling	$38.00	
Duplex Dwelling	$56.75	
Triplex Dwelling	$75.50	
4-Plex Dwelling	$113.00	
Multi Units Between 5 and 12	$156.75	
Over 12 Units	$156.75 plus $38.00 each over 12	

For New Commercial or Industrial Buildings

First $5,000.00 at $8.00 per/$1,000.00 of cost
Second $5,000.00 at $6.75 per /$1,000.00 of cost
Third $5,000.00 at $5.50 per/$1,000.00 of cost
Fourth $5,000.00 at $4.25 per/$1,000.00 of cost
Fifth $5,000.00 at $3.00 per/$1,000.00 of cost
All over $25,000.00 at $1.75 per/$1,000.00 of cost

For Repairs or Alterations on Residence, Commercial and Industrial Buildings

$100.00 to $150.00 plumbing contract $6.75
$151.00 to $200.00 plumbing contract $8.00
$201.00 to $250.00 plumbing contract $9.25
$251.00 to $300.00 plumbing contract $10.50
$301.00 to $350.00 plumbing contract $11.75
$351.00 to $400.00 plumbing contract $13.00
$401.00 to $450.00 plumbing contract $14.25
$451.00 to $500.00 plumbing contract $15.50
$501.00 to $1,000.00 plumbing contract $23.00
$1,001.00 to $2,000.00 plumbing contract $28.00
All over $2,001.00 $28.00 plus $1.50 per $100.00

Campground

Class A Site (Lake View, Patio, Water, Sewer, Electric, Cable TV, Fire Pit)	$30.00
Class C Site (Lake View, Patio, Water, Sewer, Electric, Fire Pit)	$28.00
Class E Site (Water, Sewer, Electric)	$25.00
Class F Site (Electric)	$20.00
Glass G Site (Tent)	$12.00

Long Term Stay Rate

Limited to Long Term Stay slots which include Water, Sewer, Electric
Minimum 30 day stay paid in advance – 10% off

Extra Vehicle Parking (if space available)	$5.00	
Non-Campers Dump Station (per event)	$5.00	
Non-Camper Shower (per shower)	$5.00	

Fire Department

False Alarm Fee (after 1)	$150.00	4-7-16
Liquor License Inspection Fee	$50.00	
Fireworks Display (Mortar sizes from 1-3 inches)	$150.00	
Fireworks Display (Mortar size larger than 3 inches)	$250.00	
Emergency Response and/or Cleanup of Material (per hour)		
Large Fire Apparatus	$150.00	
Fire Commander Vehicle	$75.00	

Golf Course

Single Season Pass	$325.00
Family Season Pass - Family: Two or more persons (one of whom is the householder) related by birth, marriage, or adoption, living together and sharing common living, sleeping, cooking, and eating facilities within and individual housing unit as defined by the Storm Lake Zoning Code.)	$600.00
Junior Season Pass (17 and Under)	$50.00
Electric Cart Storage	$300.00
Gas Cart Storage	$285.00
Locker Rent/yr	$20.00
Golf Club Rental	$10.00
Trail Fee (per day)	$10.00
Pull Cart Rental	$3.00
Pull Cart (year)	$65.00
Trail Fee (year)	$170.00
10 Round Punch Card	$125.00
Discount Tickets – per 9 holes	$10.00
(sold in advance with minimum quantity of 50)	
Weekday 9 Holes	$15.00
Weekday 18 Holes	$20.00
Weekend 9 Holes	$20.00
Weekend 18 Holes	$25.00
Cart Rental 9 Holes	$15.00
Cart Rental 18 Holes	$25.00
Yearly Cart Rental	$325.00
Hall Rental	$250.00
Hall Rental - Friday Setup Fee	$100.00

(Valid only after 5:00 pm Friday with following Sat. rental)

Hall Rental (weekday 4hrs or less) $100.00

Bar Setup Fee (Event Center Only) $100.00

Group Golf Rates Without Cart Rental As Set by the Following Table

# Rounds per Event	9 Holes	18 Holes
~~0-25~~	~~Regular Rate / Round~~	~~Regular Rate / Round~~
~~26~~ 0-50	$12.00 / Round	$15.00 / Round
51-99	$9.00 / Round	$10.00 / Round
100+	$8.00 / Round	$9.00 / Round

Police

Administrative Fee	$30.00		
Alarm Business Permit Application	$75.00	4-7-6	
Alarm Business Permit Renewal	$75.00	4-7-9	
False Alarm Equip Malfunction (after 3)	$75.00	4-7-16	
False Alarm	$75.00	4-7-16	
Building Escorts (per car)	$75.00	5-1-3	
Cat License – Not Neutered/Spayed (per year)		$20.00	8-4-2
Neutered/Spayed (per year)	$10.00		
Dog License – Not Neutered/Spayed (per year)		$20.00	8-3-2
Neutered/Spayed (per year)	$10.00		
Fingerprinting	$10.00		
Impound/Storage Fee (per day)	$30.00	8-6-5	
Impound Storage Fee – felony related (per day)		$50.00	
Parking Fine	$15.00	9-11-4	
Police Escort Fee – per hour, per unit	$75.00	5-1-3	
Emergency Response and/or Cleanup of Material (per hour)			
Police Vehicle (per vehicle)	$75.00		

King's Pointe Outdoor Aquatic Center

Family Season Pass $275.00
(up to 5 family members can be included on Pass, Children 4 and under need not be on pass, as they are free.)
Up to 4 additions of children 5-12 years old @$55 each

Single Season Pass (children and adults)	$150.00
Adult BV Resident Daily Pass (Age 12+)	$8.00
Child BV Resident Daily Pass (Age 5-11)	$5.00
Children (Age 5-11) Standard Pricing	$12.00
Adults (Age 12+) Standard Pricing	$15.00
4 and under	free
Twilight Pricing (after 3:00)	
Age 12+	$7.50
Age 5-11	$6.00
Age 0-4	free
Land Lovers	$5.00

Swim Lessons	$40.00	

Roadway Maintenance

Street Cuts & Replacement - Half Street	$800.00	
Street Cuts & Replacement Full Street	$1600.00	

Sewer

Sewer Svc Permit & Connection Fee	$150.00	3-2-4
Private Wastewater System Permit	$50.00	3-2-3

Shelter House

~~Rental Fee - Mon. – Thurs., per side~~	~~$55.00~~	
Rental Fee - ~~Fri., Sat., & Sun.~~, per side	~~$80.00~~	$110.00
Damage Deposit – per side	~~$100.00~~	$200.00
AWAYSIS Pavilions – per time slot (3 times available)	$25.00	
Frank Starr Park Open Shelter – per time slot (2 times available)	$50.00	
Campground Open Shelter – per time slot (2 time slots available)	$50.00	
AWAYSIS Great Lawn – per day	$200.00	
Band Shell – per day	$25.00	

Water

Door Tag Fee	$20.00	3-5-3
Meter Testing Fee (within 2%)	$50.00	3-4-20
Shut Off – 8 AM to 3 PM	$50.00	3-4-19 & 3-5-3
Shut Off – After 3 PM	$75.00	3-4-19 & 3-5-3
Water Svc Permit & Connect Fee	$150.00	3-4-5
Water Tapping Fee (per inch)	$65.00	3-4-5
Outside City Limits Hook-up Fee	$1,500.00	3-4-6
Combined Utility Deposit	$160.00	
Bulk Water Sales Access Card	$10.00	

PASSED AND APPROVED this 19th day of April, 2021.

_____

Michael Porsch, Mayor

ATTEST:

_____

Mayra A. Martinez, City Clerk

Staff Summary

5/16/2022
Agenda Item # E.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Chris Cole, Police Chief

SUBJECT: **Motion Authorizing A Noise Variance For The Buddhist Temple**

BACKGROUND: The Storm Lake Police Department received a request from Wes Bourammavong (712 301-5040) for a Noise Variance at the Buddhist Temple located at 6010 Rothmoor Road for outdoor, amplified entertainment at one of their annual events scheduled for Sunday, July 3rd, 2022 between the hours of 1:00pm and 1:00am.

This event has occurred for many years and runs well.

I will issue the Variance upon receipt of a consensus in the affirmative by the city council.

FISCAL IMPACT: None

RECOMMENDATION: Pass Motion

Staff Summary

5/16/2022
Agenda Item # F.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Chris Cole, Police Chief

SUBJECT: **Motion Authorizing a Noise Variance for Summit Church**

BACKGROUND: Attached is a Noise Variance request for an outdoor event in Frank Starr Park sponsored by Summit Church of Alta, IA for Sunday, 7-03-2022 from 8:00 am until 12:00 pm.

The event is consistent with previous requests.

I will issue the Variance upon receiving a consensus in the affirmative by the city council.

FISCAL IMPACT: None

RECOMMENDATION: Pass Motion

Staff Summary

5/16/2022
Agenda Item # G.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Chris Cole, Police Chief

SUBJECT: **Approve Request For Road Closures For Parade of Flags**

BACKGROUND: The Storm Lake Parade of Flags Foundation Requests The Following Street Closures From 8:30 am to 11:30 am For The Annual Parade of Flags Event To Be Held on Monday, May 30, 2022.

Road Closures are requested at the following locations:
Erie Street and East 5th Street
Erie Street and East 6th Street
Cayuga Street and East 5th Street

This request is the same as previous years and runs smoothly.

In The Event Of Rain, The Program Would Be Moved Indoors And The Closures Would Not Be Necessary.

FISCAL IMPACT: None

RECOMMENDATION: Approve road closures for the annual Parade of Flags event on Monday, May 30, 2022.

Staff Summary

5/16/2022
Agenda Item # H.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Chris Cole, Police Chief

SUBJECT: **Motion Authorizing Requests For The 2022 Star Spangled Spectacular (July 3rd and 4th)**

BACKGROUND: Attached to this summary is a written request from the Star Spangled Spectacular (SSS) Commodores (Brandon Frank and Jeff Bowles) submitting a series of requests related to the events scheduled for July 3rd and 4th 2022 in Chautauqua and Sunset Parks.

The requests are similar to those in previous years and are as follows:

1. Noise variance on July 3rd from 7am-12 am and on July 4th from 7:00 am to 11:30 pm for Sunset Park and Chautauqua Park.

2. Use of Chautauqua Park and Sunset Park all day on July 3rd and 4th.

3. Assistance for the classic car parade the evening of July 3rd for the route submitted
to the Storm Lake Police Department.

4. Permit for the Ride/Run for 7:00 am July 4th for the route submitted to the Storm Lake Police Department.

5. Parade Permit for 11:30 am July 4th. The parade will start at the corner of Lakeshore Drive and College Avenue, ending at the intersection of Hudson and 3rd Street.

6. Appropriate support from the City of Storm Lake Street Department, Parks Department and Department of Public Safety as required.

7. Fireworks permit issued by the City of Storm Lake Fire Chief. Fireworks are scheduled for dusk on July 4th with a rain date of July 10th. Fireworks will be shot off the jetty at Chautauqua Park.

8. Permission for inflatables to be used within the event venues pending insurance coverage (this is provisional at this point as we have not yet booked the vendor).

9. Permission to construct a temporary second stage in front of the band shell in Sunset Park.

10. Permission for food and arts/crafts with the event venues.

11. Permission to block access to streets and alleys listed below, on July 4th from 6:00 am until 5:00 pm and on Chautauqua Park Drive as needed post fireworks.

12. Permission for food vendors in Awaysis Park on July 4th from 4:00 pm to 12:00 am.

Requested Street Closings – July 4th, 2022

6 a.m. until Post-Parade

- 4th and Grand
- Hudson and Lakeshore
- Superior and Lakeshore
- Hudson and 1st Street
- Chautauqua Park Drive E. and Lakeshore Hudson Extension at Lakeshore Dr.
- Peterson and Grand
- College and 3rd Street
- All alleys within event perimeter

6 a.m. until 5:00 p.m.

- College and Lakeshore, Otsego and Lakeshore, Ontario and Lakeshore, Geneseo and Lakeshore, and Geneseo and 2nd Street
- Michigan at W 1st Street (for east-west traffic)
- W 1st Street at Lake Avenue (west side of intersection) Lake Avenue and 1st Street (South side of intersection) Lake Avenue and Lakeshore and Irving and Lakeshore
- Cayuga and Lakeshore
- Seneca and Lakeshore
- Oneida and Lakeshore
- Hudson Street Extension at Lakeshore (west side of intersection), Chautauqua Park Drive at Hudson Extension (west side), Chautauqua Park Drive at Lakeshore (west side)

- All alleys within the event perimeter

6 a.m. until post fireworks – July 4th, 2022

- Chautauqua Park Drive E. and Lakeshore Hudson Extension at Lakeshore Drive to create a safety zone for fireworks.

FISCAL IMPACT: The SLPD, SLFD, SL Parks Department and SL Street Department will incur staff time and overtime associated with this event. The expenses will be absorbed within the department's operational budgets.

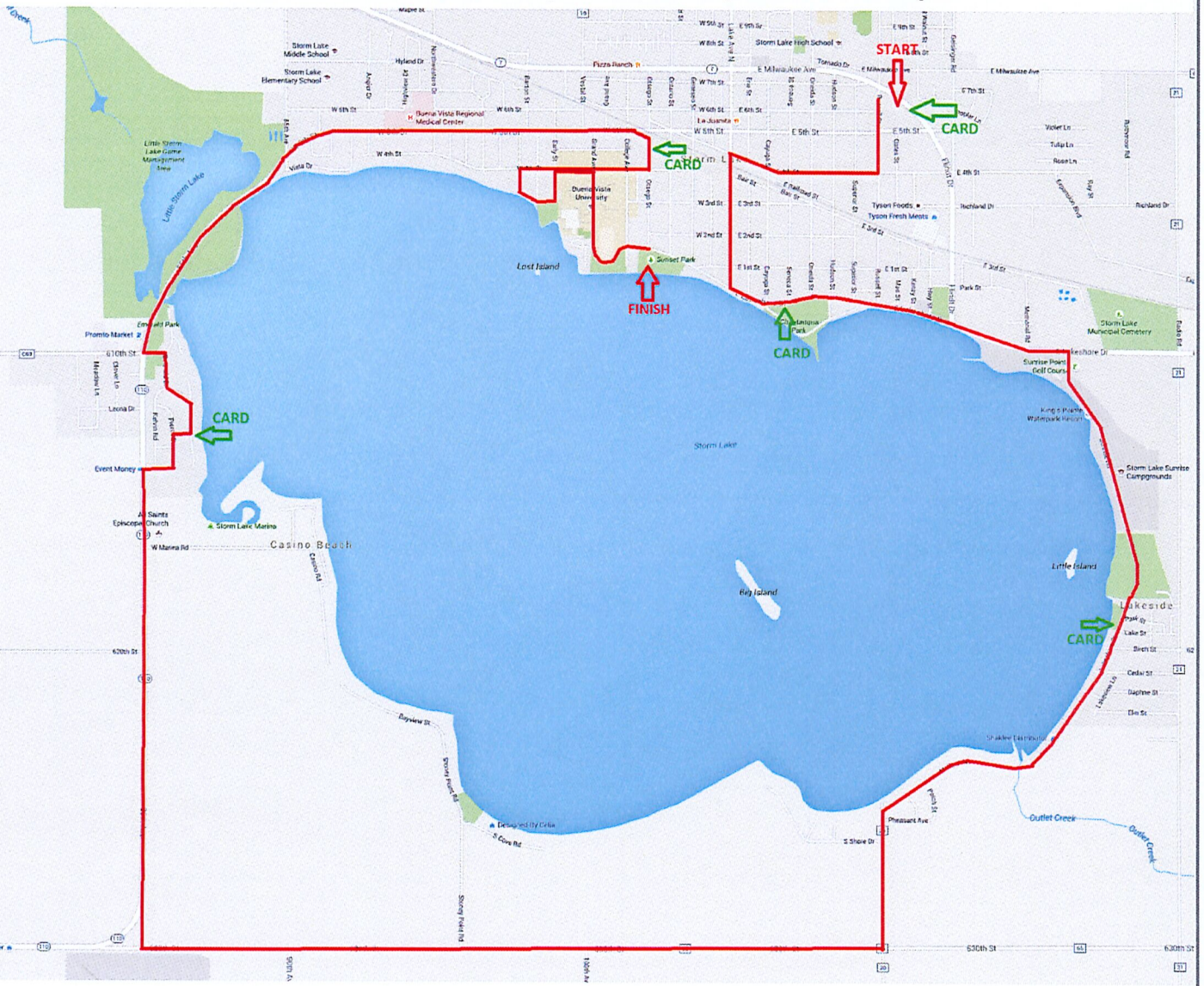
RECOMMENDATION: Approve motion contingent on receipt of appropriate insurance documents

ATTACHMENTS:

	Description	Type
🗋	Car Cruise Map 2022	Map
🗋	SSS Letter of Request	Letter

2022 SSS Car Cruise – July 3rd

Begin assembling at 4:00pm and start parade at 4:45pm



1. Assemble at Prairie Lakes AEA Building, 824 Flindt Dr. (next to Dairy Queen)
    a. **Poker Run – Card A**
2. Left (South) onto Russell Street at 4:45pm
3. Right (West) onto 4th Street
4. Continue on 4th street as it turns to Railroad
5. Left (South) onto Lake Avenue
6. Left (East) onto Lakeshore
    a. **Poker Run – Card B (chautauqau park – parking)**
7. Continue east past King's Pointe Resort
8. Right (South) onto Sunrise Park Road
    a. **Poker Run – Card C (ABC Park – Lakeside)**
9. Continue through Lakeside on Lakeshore Drive
10. Continue on Lakeshore Drive to Mallard Drive
11. Left (South) onto 110th Ave at Bel-Air Beach
12. Right (West) onto C-65
13. Right (North) on 85th Avenue at the Airport
14. Continue North as 85th Avenue joins Highway 110
15. Right (East) onto Howard Road (South end of Emerald Park)
16. Left (North) onto Pierce Drive
17. Right (East) onto Parlina Lane
18. Left (North) onto Emerald Drive
    a. **Poker Run – Card D (Corner of Parlina and Emerald Dr.)**
19. Continue on Emerald Drive through Emerald Park to Highway 110
20. Right (North) onto Highway 110
21. Continue east onto West 5th Street
22. Right (South East) onto Otsego Street
23. Pull through Driveway at Otsego Place
    a. **Poker Run – Card E (Otsego Place)**
24. South on Otsego Street
25. Right (West) onto West 4th Street
26. Left (South) onto Barton Street
27. Follow Barton Street Past Lake Pointe Villa to Lighthouse Drive
28. Left (East) onto Lighthouse Drive
29. Left (North) onto Early Street
30. Right (East) onto West 4th Street
31. Right (South) onto Grand Avenue
32. Continue on Grand Avenue as it transitions to West Lakeshore Drive past Circle Park
33. Follow West Lakeshore Drive to the West End of Sunset Park

2022 SSS Car Cruise – July 3rd

Begin assembling at 4:00pm and start parade at 4:45pm

1. Assemble at Prairie Lakes AEA Building, 824 Flindt Dr. (next to Dairy Queen)
    a. **Poker Run – Card A**
2. Left (South) onto Russell Street at 4:45pm
3. Right (West) onto 4th Street
4. Continue on 4th street as it turns to Railroad
5. Left (South) onto Lake Avenue
6. Left (East) onto Lakeshore
    a. **Poker Run – Card B (chautauqau park – parking)**
7. Continue east past King's Pointe Resort
8. Right (South) onto Sunrise Park Road
    a. **Poker Run – Card C (ABC Park – Lakeside)**
9. Continue through Lakeside on Lakeshore Drive
10. Continue on Lakeshore Drive to Mallard Drive
11. Left (South) onto 110th Ave at Bel-Air Beach
12. Right (West) onto C-65
13. Right (North) on 85th Avenue at the Airport
14. Continue North as 85th Avenue joins Highway 110
15. Right (East) onto Howard Road (South end of Emerald Park)
16. Left (North) onto Pierce Drive
17. Right (East) onto Parlina Lane
18. Left (North) onto Emerald Drive
    a. **Poker Run – Card D (Corner of Parlina and Emerald Dr.)**
19. Continue on Emerald Drive through Emerald Park to Highway 110
20. Right (North) onto Highway 110
21. Continue east onto West 5th Street
22. Right (South East) onto Otsego Street
23. Pull through Driveway at Otsego Place
    a. **Poker Run – Card E (Otsego Place)**
24. South on Otsego Street
25. Right (West) onto West 4th Street
26. Left (South) onto Barton Street
27. Follow Barton Street Past Lake Pointe Villa to Lighthouse Drive
28. Left (East) onto Lighthouse Drive
29. Left (North) onto Early Street
30. Right (East) onto West 4th Street
31. Right (South) onto Grand Avenue
32. Continue on Grand Avenue as it transitions to West Lakeshore Drive past Circle Park
33. Follow West Lakeshore Drive to the West End of Sunset Park

Follow Parking directions given by parking director upon entering Sunset Park.

May 10, 2022

Chris Cole
Chief of Police, City of Storm Lake
401 East Milwaukee
Storm Lake, Iowa 50588

Dear Chief Cole,

On behalf of the Star Spangled Spectacular Committee, We request the proper permits and variances necessary for activities planned for July 3rd and 4th, 2022. As with prior years, we respectfully request from the City of Storm Lake the following:

1. Noise variance on July 3rd from 7am-12am and on July 4th from 7:00am to 11:30pm for Sunset Park and Chautauqua Park.
2. Use of Chautauqua Park and Sunset Park all day on July 3rd and 4th.
3. Assistance for the classic car parade the evening of July 3rd for the route submitted to the Storm Lake Police Department.
4. Permit for the Ride/Run for 7:00am July 4th for the route submitted to the Storm Lake Police Department.
5. Parade Permit for 10:30am July 4th. The parade will start at the corner of Lakeshore Drive and College Avenue, ending at the intersection of Hudson and 3rd Streets.
6. Appropriate support from the City of Storm Lake Street Department, Parks Department and Department of Public Safety as required.
7. Fireworks permit issued by the City of Storm Lake Fire Chief. Fireworks are scheduled for dusk on July 4th with a rain date of July 9th. Fireworks will be shot off the jetty at Chautauqua Park.
8. Permission for inflatables to be used within the event venues (this is provisional at this point as we have not yet booked the vendor)
9. Permission to construct a temporary second stage in front of the band shell in Sunset Park.
10. Permission for food and arts/crafts with the event venues.
11. Permission to block access to streets and alleys listed on the attached sheets on July 4th from 6:00am until 5:00pm and on Chautauqua Park Road as needed post-fireworks.

Thank you for your kind assistance,

Brandon Frank & Jeff Bowles
2022 Commodores
Star Spangled Spectacular

Staff Summary

5/16/2022
Agenda Item # I.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Glenn Schlesser, Fire Chief

SUBJECT: **Star Spangled Spectacular Fireworks Permit**

BACKGROUND: The Star Spangled Spectacular Committee will sponsor fireworks launched from the south end of the Chautauqua Park jetty. Subject to approval by the Iowa DNR

FISCAL IMPACT: None

RECOMMENDATION: Approve Permit

ATTACHMENTS:

	Description	Type
🗋	July 4 2022 Fireworks Permit	Permit

Storm Lake Public Safety

Public Safety
Police & Fire
PERMIT

401 East Milwaukee Avenue
Storm Lake, Iowa
Phone: 712-732-8010
Email: publicsafety@stormlake.org

Event: July 4, 2022 Fireworks Display

Issued To:

Name: Brandon Frank

Organization: Star Spangled Spectacular Committee

Address: P.O Box 457 Storm Lake, IA 50588

Phone: 712-291-2500

Date(s) of Event: July 4th (rain date July 9th)

Time(s) of Event: Dusk

Expiration of Permit: 12:00 midnight

Location / Area of Use: south end of Chautauqua Park Jetty, subject to approval by Iowa DNR

Type of Permit

- ☐ Noise Variance (8-7-4)
- ☐ Ride/Run/Walk (9-13-4)
- ☐ Parade (9-13-4)
- ☐ Public Demonstration (8-7-4)
- ☐ Street Closing
- ☒ Fireworks (8-2-1(I2A))
- ☐ Authorized Burn (7-2-2-B)
- ☐ Other

Authorized by: Glenn M. Schlesser (Please Print) Date: 05/10/2022

Signature: Title: Fire Chief

Staff Summary

5/16/2022
Agenda Item # J.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Chris Cole, Police Chief

SUBJECT: **SLPD City Code Enforcement Summary**

BACKGROUND: 04/27/2022 to 5/9/2022
Total: 47

Accumulate Junk – 21
Junk Vehicles – 9
Accumulate used Tires – 3
Accumulate Trash – 6
White Summons - 8

0 Citations

FISCAL IMPACT: None

RECOMMENDATION: None

Staff Summary

5/16/2022
Agenda Item # 3.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Keri Navratil, City Manager

SUBJECT: King's Pointe Update

BACKGROUND: Amy Von Bank will provide an update regarding King's Pointe

FISCAL IMPACT: N/A

RECOMMENDATION: No action necessary

Staff Summary

5/16/2022
Agenda Item # 4.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Scott Olesen, Building & Code Compliance Director

SUBJECT: **A Public Hearing On A Proposed Text Amendment to the Storm Lake Zoning Ordinance To Permit Servicing of Non-Commercial Lawn and Garden Equipment as a Home Occupation.**

BACKGROUND: There has been interest in the potential for servicing of non-commercial lawn and garden equipment as a Home Occupation in the Residential Zoning Districts. Currently, this is not an allowable Home Occupation use.

This use type would provide for the servicing of non-commercial lawn and garden equipment such as lawnmowers, snow blowers, and garden tillers, and similar non-licensed equipment intended for use by homeowners. The extent of work would be limited to tune ups and oil changes. It would not include engine rebuilding, welding of any kind, or painting. The lawn and garden equipment is to be brought to the building by the occupant of the dwelling, no deliveries by the equipment owner would be permitted and work must be performed inside of a garage. No external storage is permitted.

The home occupation may only operate between the hours of 8:00 a.m. and 8:00 p.m.

I have attached the proposed text amendment for your review.

Before a text amendment may be approved by the City Council, a written recommendation must be provided by the Planning and Zoning Commission.

The Planning and Zoning Commission held a public meeting on May 12th, 2022 at 5:15 p.m. The Planning and Zoning

Commission recommended approval of the text amendment, the vote was 4-0.

At the May 2nd, 2022 City Council set the Public Hearing for May 16, 2022. Notification of public hearing was published on the Storm Lake Times Pilot May 4th, 2022. Property Owners were sent notification by regular and certified mail on May 3rd, 2022. Certified mailed delivery was confirmed as May 5th, 2022. Agendas for both City Council and Planning & Zoning were posted and faxed 24 hour in advance per requirements.

FISCAL IMPACT: Cost of public notices and legal fees estimated at $200.00.

RECOMMENDATION: Open the Public Hearing
Receive Public Input
Close The Public Hearing

ATTACHMENTS:

Description	Type
Application	Application
Map	Map
Ordinance	Ordinance
Public Notice	Backup Material
Letter From the Public	Letter

ZONING ORDINANCE AMENDMENT REQUEST

CITY OF STORM LAKE

PLANNING AND ZONING COMMISSION and CITY COUNCIL

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

PROPERTY ADDRESS:	105 Emerald Drive
PROPERTY OWNER:	Travis & Darci Brown
OWNER ADDRESS (if different than above):	
OWNER PHONE NUMBER:	712-730-8064
OWNER EMAIL:	darcibrown81@gmail.com

The City of Storm Lake Zoning Ordinance Article 12 Section 1204 establishes the amendment procedure for the Zoning Ordinance and requires the property owner to submit the following information, which must accompany this application before it can be considered by the Planning and Zoning Commission and the City Council.

The legal description and local address of the property.

The present zoning classification and the requested zoning classification.

The existing use of the property and the proposed use of the property.

A statement of the reasons why the applicant feels the present zoning classification is no longer valid.

Attach a plat showing the locations, dimensions and use of the applicant's property and all property within three hundred (300') feet including streets, alleys, railroads, and other physical features.

The request for a rezoning request will be heard by the Planning and Zoning Commission and the City Council at separate meetings.

The City of Storm Lake will notify all property owners within three hundred (300') feet of the applicant's property notifying them of the upcoming hearing.

The City of Storm Lake will notify the applicant of the hearing date.

The City of Storm Lake will publish a public hearing notice in a locally circulated newspaper not less than 7 and no more than 20 days prior to the meeting.

A non refundable application fee of **$200.00** is required at time of the application. The fee will not be refunded if the request is denied by the Planning and Zoning Commission or the City Council.

ZONING ORDINANCE AMENDMENT REQUEST

CITY OF STORM LAKE

PLANNING AND ZONING COMMISSION and CITY COUNCIL

☒ Text Amendment to the Zoning Ordinance

☐ Zoning Map Amendment to the Zoning Ordinance

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

CURRENT ZONING ORDINANCE :

TEXT AMENDEMENT REQUEST: Permit servicing of Non-Commercial lawn & garden equipment as a Home occupation use.

ADDRESS OF THE PROPERTY: 105 N. Emerald Drive

LEGAL DESCRIPTION OF THE PROPERTY: Lot 4, Block 3, Storm Lake Corp., Hayes Whitney Pierce Beach, & the South 10' of Lots 5 and 6 & Lot 7, Ex. the North 37.58'

PRESENT ZONING DISTRICT: R-2

REQUESTED ZONING DISTRICT: R-2

WHY PRESENT ZONING IS NO LONGER VALID: N/A

EXISTING USE OF PROPERTY: Single family dwelling

PROPOSED USE OF PROPERTY: Single family dwelling

Signature of Property Owner: Dana J Brown Date: 4-27-22

City of Storm Lake Use

Meeting Date:

Appeal No.:

Application Fee Paid:

Date Paid:

O 116
N EMERALD DR.
N EMERALD DR.
X 113
J1 - J14
N 112
W1 - W6
T 115
M 108
V
111 S
U
107
SPRING CT.
SPRING
109 R
L
K
104
100
Q 107
A 105
P 105
EMERALD DR.
EMERALD DR.
B 101
I 101
101
C
D
H 95
95
F
E
G 704
701
701
1:500

ORDINANCE NO.

ORDINANCE AMENDING THE ZONING ORDINANCE OF THE CITY OF STORM LAKE, A PART OF THE STORM LAKE MUNICIPAL CODE, TO ALLOW FOR SERVICING OF NON-COMMERCIAL LAWN AND GARDEN EQUIPMENT AS A HOME OCCUPATION BUSINESSES

WHEREAS, the City Staff has received a petition for changes in the text of the Storm Lake Zoning Ordinance and Subdivision Regulations to allow for servicing of non-commercial lawn and garden equipment as a home occupation

WHEREAS, the City's Planning and Zoning Commission has reviewed and recommended approval of the proposed changes in the text of the Zoning Ordinance that will allow for such additional use of real property in a Residential Zoning District; and

WHEREAS, the proposed changes in the text of such Zoning Ordinance are consistent and in accordance with the comprehensive plan adopted by the City in Resolution No. 94-R-2012-2013 on February 18, 2013;

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of Storm Lake, Iowa, as follows:

Section 1. AMENDMENTS. The Zoning Ordinance of the City of Storm Lake is amended as follows:

a. In "Article Three-Use Types", insert the following new subsection "c(6)." in Section 307 immediately after subsection "c(5)." of Section 307:

6. Non-Commercial Lawn and Garden Equipment Repair

A home based business that provides oil changes, engine tune ups, and general maintenance of non-commercial lawn & garden equipment such as lawnmowers, snow blowers, garden tilling, and similar unlicensed, non-recreational equipment, intended for use by urban homeowners. This use does not permit the rebuilding of small engines, painting, or welding of any kind. Uses are limited to dwelling garages and no work or storage outside of the garage is permitted. No customer drop offs are permitted and the business may only operate between the hours of 8:00 am and 8:00 pm.

b. In "Article Six-Supplemental Use Regulations", add the following to the end of Section 610, subsection (a)6(d) after "uses":

",except for Non-Commercial Lawn and Garden Equipment Repair, as defined in Article Three, Section 307, subsection c(6)."

Section 2. REPEALER. All ordinances or parts of ordinances in conflict with the provisions of this Ordinance are hereby repealed.

Section 3. EFFECTIVE DATE. This ordinance shall be in full force and effect from and after its passage and publication as provided by law.

PASSED AND APPROVED this _____ day of _____, 2022.

_____
Michael Porsch, Mayor

ATTEST:

_____
Mayra A. Martinez, City Clerk

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

PLANNING AND ZONING AND CITY COUNCIL
CITY OF STORM LAKE

File number: **2022-3**

Date: **May 3, 2022**

A petition for a Text Amendment to the Storm Lake Zoning Ordinance to allow servicing of non-commercial lawn and garden equipment as a permitted Home Occupation use in Residential Zoning Districts has been filed by Travis and Darci Brown.

The petition requests approval to allow for servicing of non-commercial lawn and garden equipment as a permitted Home Occupation use in the Residential Zoning Districts. As follows:

> A home-based business that provides oil changes, engine tune ups, and general maintenance of non-commercial lawn & garden equipment such as lawnmowers, snow blowers, garden tilling, and similar unlicensed, non-recreational equipment, intended for use by urban homeowners. This use does not permit the rebuilding of small engines, painting, or welding of any kind. Uses are limited to dwelling garages and no work or storage outside of the garage is permitted. No customer drop offs are permitted and the business may only operate between the hours of 8:00 am and 8:00 pm.

A public hearing will be held by the Planning and Zoning Commission on May 12, 2022, at 5:15 P.M. at which time you may appear if you so desire, either in person or by agent or attorney, in opposition to or support of the proposed ordinance to permit servicing of non-commercial lawn and garden equipment as a Home Occupation in the Residential Zoning Districts. You may attend in person at City Hall, by Telephone: Dial: 1-312-626-6799 or tollfree: 1-888-475-4499 – Zoom Meeting ID: 825 5453 3554, or by Computer: https://us06web.zoom.us/j/82554533554

Following the hearing the board will make a recommendation to the City Council relative to the application. **The City Council will meet Monday, May 16, 2022, at 5:00 P.M**. You may attend in person at City Hall, By Telephone Dial: 1-312-626-6799 or toll-free: 1-888-475-4499 Zoom Meeting ID: 933-2006-3301, or By Computer: https://zoom.us/j/93320063301

Respectfully submitted,

Scott Olesen
Zoning Administrator

May 12th, 2022

Planning and Zoning and City Council
City of Storm Lake
PO Box 1086
Storm Lake, IA 50588

RE: File Number 2022-3

"A petition for a Text Amendment to the Storm Lake Zoning Ordinance to allow servicing of non-commercial lawn and garden equipment as a permitted Home Occupation use in the Residential Zoning District as filed by Travis and Darci Brown"

To Whom it May Concern,

Please accept this petition in OPPOSITION of the proposed request on behalf of the individuals signed here forth for the reasons (i), but limited to:

1. Home Occupations are regulated by the existing zoning code under sections:
    a. 610(a)1(b)- "No noise, odors, bright lights, electronic interference, storage or other external effects attributable to the home occupation shall be noticeable from any adjacent property or public right of way."
        i. Regardless of intent, non-commercial lawn and garden equipment make noise and odors are produced during the simple oil change, tune ups, and general maintenance.
    b. 610(b)- "Employees: The home occupation shall employ no more than one full time or part time employee on site other than the residents of the dwelling unit, provided that one off-street parking space is made available and used by that non-resident employee."
        i. There is no relation to the City's Comprehensive plan as the Economic Goals to attract new businesses and supply jobs within Storm Lake. Due to the code cited above, there is a limit home occupation can employ. The compressive plan was to diversify the tax base, not incorporate any business in residential area. To accommodate the Economic Goals outlined in the Comp Plan, this business owner should find suitable commercial property to allow expansion as envisioned in the comp plan.
    c. 610(a)6(d)- "Repair shops or service establishments including major electrical appliance repair, motorized vehicle repair, and related uses."
        i. This clause was previously passed by the City, including planning and zoning, as whole and is established. Though notification has occurred in the requested area for P&Z consideration, there will be other locations within the City this will be permitted under the requested text change whom do not follow or know about the City Council's request for consideration. Additional open meetings for

public input should be considered before any consideration for the body as a whole, all residential dwelling owners within City limits.

2. "No customer drop offs are permitted.."
    i. First, this is ambiguous. If you are referencing customers dropping off or picking up their Non-Commercial Lawn and Garden Repair Equipment then there will be no enforcement of this clause. The equipment has to arrive and leave the premise at some point whether the property owner is doing the transportation or the customer. As a customer, if my equipment is in a body shop, I have the right to check on the status of any repairs. If this request is referencing supplier drop offs then you would be restricting the dwelling from receiving any USPS, FedEx, USPS deliveries as their would be no way to determine if the packages are for personal use or home occupation use.
3. Increased Traffic on the Lake Trail-
    i. This property is located on the existing City's Lake Trail increased traffic of will result in unsafe conditions for pedestrian walkers and bicycles. We should consider the already existing residential expansion at the entrance or Emerald Drive with an outlet to North Emerald (on to the Lake Trail) before considering any additional expiation of traffic.
4. Open Business in Storm Lake-
    i. There are store fronts around Storm Lake or areas to construct where this type of business is permitted. Other business in Storm Lake, also residential owners, own separate locations in Storm Lake to increase tax basis. There are programs out there to help start up companies such as this in permitted locations. Lets fill our open commercial and industrial locations and open lots before permitting anyone additional home occupations.
5. Not Currently Zoned Allowable-
    i. Not trying to be redundant with this one, but many restrictions are outlined within the existing zoning regulations for a reason. We select our living location based on our needs and value, this would be changing the scope of value in the area by allowing small businesses in residential areas. By signing this, we are stating we do not want this "Exception" Ordinance included in the City's Zoning Code.

In conclusion, please do not take absence of persons in the room at the P&Z meeting or Council Meeting as a showing support for this amendment. Provided a 3 day notice to attend a meeting is not feasible for many so this petition is all that could be collected in a short time's notice. Unfortunately concerns like these, silence is considered support vs a traditional vote where you have ayes, nays, and absent.

Please conder voting no for this request as you are the voice of all dwelling owners in Storm Lake at this time. Allow time for the body as a whole, the citizens all throughout Storm Lake be allowed voice their input on use of real property in the Residential Zoning District.

Sincerely,

Emerald Park Residents

Name	Address
John Bartholomew	113 N Emerald DR
Diane Bartholoma	113 N Emerald DR.
[illegible]	111 N Emerald Dr. Unit 4
[illegible]	111 N Emerald Unit 3
Chantal Pie	111 N Emerald Unit 3
Rob Danielson	102 N Emerald
Melissa Danielson	107 N. Emerald Dr.
Sharon Janning	108 N. Emerald Dr.
[illegible]	108 N. Emerald
[illegible]	112 N Emerald Dr.
Tyson Rio	115 Spring Ct.
[illegible]	115 Spring Ct.
[illegible]	908 Emerald DR.
Lyndon Mann	908 Emerald Dr.
[illegible]	111 N. Emerald Dr.
[illegible]	111 N Emerald DR
[illegible]	111 N Emerald Dr.
[illegible]	111 N Emerald Dr.
[illegible]	116 N Emerald Dr.

Parcel ID	Property Address	Map Key	Taxpayer Name	Taxpayer City	Taxpayer	Taxpayer Zip
1405453005	116 N EMERALD DR	O	TYLER GIBBINS	STORM LAKE	IA	50588
1405453006	112 N EMERALD DR	N	SANDY & JOSE SANABIA-MANRIQUEZ	STORM LAKE	IA	50588
1405453007	108 N EMERALD DR	M	DAVID J JANNING	STORM LAKE	IA	50588
1405453008	100 N EMERALD DR	K	DAN & BARBARA SOELLNER REV FAMILY TRUST	STORM LAKE	IA	50588
1405453009	104 N EMERALD DR	L	JEREMY R JENSEN	STORM LAKE	IA	50588
1405454003	113 N EMERALD DR	X	JOHN E BARTHOLOMEW	STORM LAKE	IA	50588
1405454005	115 SPRING CT	T	TYSON RICE	STORM LAKE	IA	50588
1405454006	111 SPRING CT	S	DENNIS & ANGELA BENNETT	NORWALK	IA	50211-9216
1405454007	109 SPRING CT	R	DENNIS M BENNET	NORWALK	IA	50211-9216
1405454008	107 SPRING CT	Q	MICHAEL V CARSTENS	OMAHA	NE	68132-2856
1405454009	105 SPRING CT	P	BRAD J BERNHARDT	SIOUX CITY	IA	51106
1405455001	111 N EMERALD DR VAC	V	ROBERT T DANIELSON	STORM LAKE	IA	50588
1405455002	107 N EMERALD DR	U	ROBERT T DANIELSON	STORM LAKE	IA	50588
1405455003	105 N EMERALD DR	A	TRAVIS & DARCI BROWN	STORM LAKE	IA	50588
1405456001	111 N EMERALD DR UNIT 1	W1	TIM BROWN	SIOUX FALLS	SD	57110-7010
1405456002	111 N EMERALD DR UNIT 2	W2	MICHAEL WILBUR	GILBERT	AZ	85233
1405456003	111 N EMERALD DR UNIT 3	W3	STEVE BRASHEARS	LAKESIDE	IA	50588
1405456004	111 N EMERALD DR UNIT 4	W4	ROBERT E BASCHKE	STORM LAKE	IA	50588
1405456005	111 N EMERALD DR UNIT 5	W5	TYLER DEAN MUNDEN	STORM LAKE	IA	50588
1405456006	111 N EMERALD DR UNIT 6	W6	ERIK MORROW	REMBRANDT	IA	50576
1405459001	94 N EMERALD DR UNIT 1	J1	JUDITH K PARKER	STORM LAKE	IA	50588
1405459002	94 N EMERALD DR UNIT 2	J2	KELSEY WEST	STORM LAKE	IA	50588
1405459003	94 N EMERALD DR UNIT 3	J3	TROY BRIGGS	STORM LAKE	IA	50588
1405459004	94 N EMERALD DR UNIT 4	J4	NORMAN L HENDRIKS	STORM LAKE	IA	50588
1405459005	94 N EMERALD DR UNIT 5	J5	CARL G HANSEN	STORM LAKE	IA	50588
1405459006	94 N EMERALD DR UNIT 6	J6	CHRISTOPHER L CARZOLI	STORM LAKE	IA	50588
1405459007	94 N EMERALD DR UNIT 7	J7	BRIAN M RICKARDS	MESA	AZ	85205
1405459008	94 N EMERALD DR UNIT 8	J8	PAUL K KNUTSON	STORM LAKE	IA	50588
1405459009	94 N EMERALD DR UNIT 9	J9	BRENDEN T KHOUNLO	STORM LAKE	IA	50588
1405459010	94 N EMERALD DR UNIT 10	J10	CRAIG R DAVIS	STORM LAKE	IA	50588
1405459011	94 N EMERALD DR UNIT 11	J11	KRAUTH ANESTHESIA SERVICES LLC	STORM LAKE	IA	50588
1405459012	94 N EMERALD DR UNIT 12	J12	CYNTHIA L GROSS	STORM LAKE	IA	50588
1405459013	94 N EMERALD DR UNIT 13	J13	BRASH LLC	LAKESIDE	IA	50588
1405459014	94 N EMERALD DR UNIT 14	J14	BRASH LLC	LAKESIDE	IA	50588
1408201002	704 EMERALD DR	G	PAUL SCHREIER	STORM LAKE	IA	50588
1408202002	101 N EMERALD DR GAR	B	THOMAS DEAN COLE COLE MARY ESTELLE IRREVOCABLE TRUST	ALTOONA	IA	50009
1408202003	95 N EMERALD DR	H	COLE E MARY LIFE ESTATE	SCHALLER	IA	51053
1408202004	701 EMERALD DR	F	GRIGSBY LAVERNE E REV TRUST	STORM LAKE	IA	50588
1408202012	101 N EMERALD DR	C	THOMAS DEAN COLE COLE MARY ESTELLE IRREVOCABLE TRUST	ALTOONA	IA	50009
1408202013	101 N EMERALD DR	I	COLE E MARY	SCHALLER	IA	51053
1408206018	701 WINTHROP	E	DONOVAN L CROUCH	STORM LAKE	IA	50588

NOTICE OF PUBLIC HEARING FOR
ADJOINING PROPERTY OWNERS
PLANNING AND ZONING AND CITY COUNCIL
CITY OF STORM LAKE

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

File number: 2022-3

Date: **May 3, 2022**

A petition for a Text Amendment to the Storm Lake Zoning Ordinance to allow servicing of non-commercial lawn and garden equipment as a permitted Home Occupation use in Residential Zoning Districts has been filed by Travis and Darci Brown.

The petition requests approval to allow for servicing of non-commercial lawn and garden equipment as a permitted Home Occupation use in the Residential Zoning Districts. As follows:

A home-based business that provides oil changes, engine tune ups, and general maintenance of non-commercial lawn & garden equipment such as lawnmowers, snow blowers, garden tilling, and similar unlicensed, non-recreational equipment, intended for use by urban homeowners. This use does not permit the rebuilding of small engines, painting, or welding of any kind. Uses are limited to dwelling garages and no work or storage outside of the garage is permitted. No customer drop offs are permitted and the business may only operate between the hours of 8:00 am and 8:00 pm.

A public hearing will be held by the Planning and Zoning Commission on May 12, 2022, at 5:15 P.M. at which time you may appear if you so desire, either in person or by agent or attorney, in opposition to or support of the proposed ordinance to permit servicing of non-commercial lawn and garden equipment as a Home Occupation in the Residential Zoning Districts. **You may attend in person at City Hall, by Telephone: Dial: 1-312-626-6799 or tollfree: 1-888-475-4499 – Zoom Meeting ID: 825 5453 3554, or by Computer: https://us06web.zoom.us/j/82554533554**

Following the hearing the board will make a recommendation to the City Council relative to the application. **The City Council will meet Monday, May 16, 2022, at 5:00 P.M.** You may attend in person at City Hall, By Telephone Dial: 1-312-626-6799 or toll-free: 1-888-475-4499 Zoom Meeting ID: 933-2006-3301, or By Computer: https://zoom.us/u/acQoNI9eat

You yourself, an agent or an attorney may attend the Planning & Zoning or the City Council meeting in opposition to or support of the proposed preliminary plat for a minor subdivision.

The hearing of this appeal is not limited to those receiving copies of this notice, and if you know of any neighbor or affected property owner who, for any reason, has not received a copy, it would be appreciated if you would inform them of this public hearing.

This notice is sent only as a courtesy. It is not a substitute for the official public hearing notice, which has been published in the newspaper.

Respectfully submitted,

Scott Olesen

Scott Olesen
Zoning Administrator

Colette Baker

From: Scott Olesen
Sent: 10 May, 2022 10:04 AM
To: Colette Baker; Mayra Martinez
Subject: FW: Zoning

Follow Up Flag: Follow up
Flag Status: Flagged

From: Rob Danielson <robdanielson112@gmail.com>
Sent: Tuesday, May 10, 2022 8:51 AM
To: Scott Olesen <Olesen@stormlake.org>
Subject: Zoning

I have received notice of the hearing about the petition for a zoning change filed by my neighbors. I am unable to attend the meeting as I will be on vacation and will have limited cell phone service. I am opposed to this change. I have been in or around the Storm Lake area since 1990 and have always thought that Emerald Park is a great area. When we moved from Alta to Storm Lake in 2009 we looked for a house in Emerald Park because it is a nice quiet area. I would have never thought that a commercial business would be in the neighborhood. The deck on the southeast side of our house is less than 25 feet away from the garage that would house the proposed small engine repair shop. I feel there are plenty of buildings in Storm Lake for a commercial business that would be more suitable than a residential building that would affect the neighborhood. North Emerald Drive is a quiet area on a dead end street and I would like it to remain that way.

Colette Baker

From: Brad Bernhardt <bbernski@gmail.com>
Sent: 9 May, 2022 10:45 AM
To: Colette Baker
Subject: Re: City of Storm Lake Planning & Zoning Meeting

Follow Up Flag: Follow up
Flag Status: Flagged

Thank you very much.

On Mon, May 9, 2022 at 10:43 AM Colette Baker <Baker@stormlake.org> wrote:

> Thank you. I will make sure the Commission receives the letter.
>
> *Cookie Baker*
>
> *Code Enforcement Officer*
>
> *712-732-8002*
>
> Storm Lake City Administration
>
> Get the latest City of Storm Lake News directly to your inbox!
>
> Sign up to News Flash - Press Release
>
> **From:** Brad Bernhardt <bbernski@gmail.com>
> **Sent:** 9 May, 2022 10:40 AM
> **To:** Colette Baker <Baker@stormlake.org>
> **Subject:** Re: City of Storm Lake Planning & Zoning Meeting
>
> I am writing in response to the petition for a text amendment to the Storm Lake Zoning Ordinance to allow servicing of non-commercial lawn and garden equipment as a permitted Home Occupation use in the Residential Zoning Districts.

After careful consideration, I strongly oppose this request for the following reasons :

In 2008 I purchased my property at 105 Spring Court in a quiet residential lakeside location. Since that time, I have made many improvements. I did not anticipate the presence of an engine repair business directly across the street from my property. While the Brown's outline restrictions on their planned business, I am unsure on how the scope of their operations would be enforced.

My property would be the most impacted by this change. My driveway is directly across from the Browns' and Spring Court is a very narrow, unpaved street with limited to no parking.

All home owners care about the value of their property. I feel that this change would negatively impact the neighborhood feel of Spring Court and negatively impact my property value in the future.

I wish the Browns no Ill will and would oppose any commercial foray into this residential section of Storm Lake. I fear this would open the door to other business ventures and forever change the landscape of this neighborhood.

Sincerely,

Brad Bernhardt

105 Spring Court

On Fri, May 6, 2022 at 2:43 PM Colette Baker <Baker@stormlake.org> wrote:

NOTICE OF PUBLIC HEARING FOR

ADJOINING PROPERTY OWNERS

PLANNING AND ZONING AND CITY COUNCIL

CITY OF STORM LAKE

File number: 2022-3

Date: **May 3, 2022**

A petition for a Text Amendment to the Storm Lake Zoning Ordinance to allow servicing of non-commercial lawn and garden equipment as a permitted Home Occupation use in Residential Zoning Districts has been filed by Travis and Darci Brown.

The petition requests approval to allow for servicing of non-commercial lawn and garden equipment as a permitted Home Occupation use in the Residential Zoning Districts. As follows:

A home-based business that provides oil changes, engine tune ups, and general maintenance of non-commercial lawn & garden equipment such as lawnmowers, snow blowers, garden tilling, and similar unlicensed, non-recreational equipment, intended for use by urban homeowners. This use does not permit the rebuilding of small engines, painting, or welding of any kind. Uses are limited to dwelling garages and no work or storage outside of the garage is permitted. No customer drop offs are permitted and the business may only operate between the hours of 8:00 am and 8:00 pm.

A public hearing will be held by the Planning and Zoning Commission on May 12, 2022, at 5:15 P.M. at which time you may appear if you so desire, either in person or by agent or attorney, in opposition to or support of the proposed ordinance to permit servicing of non-commercial lawn and garden equipment as a Home Occupation in the Residential Zoning Districts. **You may attend in person at City Hall, by Telephone: Dial: 1-312-626-6799 or tollfree: 1-888-475-4499 – Zoom Meeting ID: 825 5453 3554, or by Computer: https://us06web.zoom.us/j/82554533554**

Following the hearing the board will make a recommendation to the City Council relative to the application. **The City Council will meet Monday, May 16, 2022, at 5:00 P.M.** You may attend in person at City Hall, By Telephone Dial: 1-312-626-6799 or toll-free: 1-888-475-4499 Zoom Meeting ID: 933-2006-3301, or By Computer: https://zoom.us/u/acQoNI9eat

You yourself, an agent or an attorney may attend the Planning & Zoning or the City Council meeting in opposition to or support of the proposed preliminary plat for a minor subdivision.

The hearing of this appeal is not limited to those receiving copies of this notice, and if you know of any neighbor or affected property owner who, for any reason, has not received a copy, it would be appreciated if you would inform them of this public hearing.

This notice is sent only as a courtesy. It is not a substitute for the official public hearing notice, which has been published in the newspaper.

Respectfully submitted,

Scott Olesen

Zoning Administrator

Staff Summary

5/16/2022
Agenda Item # 5.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Scott Olesen, Building & Code Compliance Director

SUBJECT: **Ordinance No. 13-O-2021-2022 Proposed Text Amendment to the Storm Lake Zoning Ordinance To Permit Servicing of Non-Commercial Lawn and Garden Equipment as a Home Occupation - First Reading**

BACKGROUND: There has been interest in the potential for servicing of non-commercial lawn and garden equipment as a Home Occupation in the Residential Zoning Districts. Currently, this is not an allowable Home Occupation use.

This use type would provide for the servicing of non-commercial lawn and garden equipment such as lawnmowers, snow blowers, and garden tillers, and similar non-licensed equipment intended for use by homeowners. The extent of work would be limited to tune ups and oil changes. It would not include engine rebuilding, welding of any kind, or painting. The lawn and garden equipment is to be brought to the building by the occupant of the dwelling, no deliveries by the equipment owner would be permitted and work must be performed inside of a garage. No external storage is permitted.

The home occupation may only operate between the hours of 8:00 a.m. and 8:00 p.m.

I have attached the proposed text amendment for your review.

Before a text amendment may be approved by the City Council, a written recommendation must be provided by the Planning and Zoning Commission.

FISCAL IMPACT: Cost of public notices and legal fees estimated at $200.00.

RECOMMENDATION: Review and approve the proposed text amendment attached to this staff summary and provide the required written approval on the form provided to the Chairman of the Planning and Zoning Commission.

ATTACHMENTS:

Description	Type
Application	Application
Notice to the Public	Backup Material
Map	Map
Ordinance #13-O-2021-2022	Ordinance

ZONING ORDINANCE AMENDMENT REQUEST

CITY OF STORM LAKE

PLANNING AND ZONING COMMISSION and CITY COUNCIL

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

PROPERTY ADDRESS:	105 Emerald Drive
PROPERTY OWNER:	Travis & Darci Brown
OWNER ADDRESS (if different than above):	
OWNER PHONE NUMBER:	712-730-8064
OWNER EMAIL:	darcibrown81@gmail.com

The City of Storm Lake Zoning Ordinance Article 12 Section 1204 establishes the amendment procedure for the Zoning Ordinance and requires the property owner to submit the following information, which must accompany this application before it can be considered by the Planning and Zoning Commission and the City Council.

The legal description and local address of the property.

The present zoning classification and the requested zoning classification.

The existing use of the property and the proposed use of the property.

A statement of the reasons why the applicant feels the present zoning classification is no longer valid.

Attach a plat showing the locations, dimensions and use of the applicant's property and all property within three hundred (300') feet including streets, alleys, railroads, and other physical features.

The request for a rezoning request will be heard by the Planning and Zoning Commission and the City Council at separate meetings.

The City of Storm Lake will notify all property owners within three hundred (300') feet of the applicant's property notifying them of the upcoming hearing.

The City of Storm Lake will notify the applicant of the hearing date.

The City of Storm Lake will publish a public hearing notice in a locally circulated newspaper not less than 7 and no more than 20 days prior to the meeting.

A non refundable application fee of **$200.00** is required at time of the application. The fee will not be refunded if the request is denied by the Planning and Zoning Commission or the City Council.

ZONING ORDINANCE AMENDMENT REQUEST

CITY OF STORM LAKE

PLANNING AND ZONING COMMISSION and CITY COUNCIL

☒ Text Amendment to the Zoning Ordinance

☐ Zoning Map Amendment to the Zoning Ordinance

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

CURRENT ZONING ORDINANCE :

TEXT AMENDEMENT REQUEST: Permit servicing of Non-Commercial lawn & garden equipment as a Home occupation use.

ADDRESS OF THE PROPERTY: 105 N. Emerald Drive

LEGAL DESCRIPTION OF THE PROPERTY: Lot 4, Block 3, Storm Lake Corp., Hayes Whitney Pierce Beach, & the South 10' of Lots 5 and 6 & Lot 7, Ex. the North 37.58'

PRESENT ZONING DISTRICT: R-2

REQUESTED ZONING DISTRICT: R-2

WHY PRESENT ZONING IS NO LONGER VALID: N/A

EXISTING USE OF PROPERTY: Single family dwelling

PROPOSED USE OF PROPERTY: Single family dwelling

Signature of Property Owner: Dana J Brown Date: 4-27-22

City of Storm Lake Use

Meeting Date:

Appeal No.:

Application Fee Paid:

Date Paid:

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

PLANNING AND ZONING AND CITY COUNCIL
CITY OF STORM LAKE

File number: **2022-3**

Date: **May 3, 2022**

A petition for a Text Amendment to the Storm Lake Zoning Ordinance to allow servicing of non-commercial lawn and garden equipment as a permitted Home Occupation use in Residential Zoning Districts has been filed by Travis and Darci Brown.

The petition requests approval to allow for servicing of non-commercial lawn and garden equipment as a permitted Home Occupation use in the Residential Zoning Districts. As follows:

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A public hearing will be held by the Planning and Zoning Commission on May 12, 2022, at 5:15 P.M. at which time you may appear if you so desire, either in person or by agent or attorney, in opposition to or support of the proposed ordinance to permit servicing of non-commercial lawn and garden equipment as a Home Occupation in the Residential Zoning Districts. You may attend in person at City Hall, by Telephone: Dial: 1-312-626-6799 or tollfree: 1-888-475-4499 – Zoom Meeting ID: 825 5453 3554, or by Computer: https://us06web.zoom.us/j/82554533554

Following the hearing the board will make a recommendation to the City Council relative to the application. **The City Council will meet Monday, May 16, 2022, at 5:00 P.M**. You may attend in person at City Hall, By Telephone Dial: 1-312-626-6799 or toll-free: 1-888-475-4499 Zoom Meeting ID: 933-2006-3301, or By Computer: https://zoom.us/j/93320063301

Respectfully submitted,

Scott Olesen
Zoning Administrator

O 116
N EMERALD DR.
N EMERALD DR.
X 113
J1 - J14
N 112
W1 - W6
T 115
M 108
V
111 S
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SPRING CT.
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Q 107
A 105
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EMERALD DR.
EMERALD DR.
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701
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ORDINANCE NO. 13-O-2021-2022

ORDINANCE AMENDING THE ZONING ORDINANCE OF THE CITY OF STORM LAKE, A PART OF THE STORM LAKE MUNICIPAL CODE, TO ALLOW FOR SERVICING OF NON-COMMERCIAL LAWN AND GARDEN EQUIPMENT AS A HOME OCCUPATION BUSINESSES

WHEREAS, the City Staff has received a petition for changes in the text of the Storm Lake Zoning Ordinance and Subdivision Regulations to allow for servicing of non-commercial lawn and garden equipment as a home occupation

WHEREAS, the City's Planning and Zoning Commission has reviewed and recommended approval of the proposed changes in the text of the Zoning Ordinance that will allow for such additional use of real property in a Residential Zoning District; and

WHEREAS, the proposed changes in the text of such Zoning Ordinance are consistent and in accordance with the comprehensive plan adopted by the City in Resolution No. 94-R-2012-2013 on February 18, 2013;

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of Storm Lake, Iowa, as follows:

Section 1. AMENDMENTS. The Zoning Ordinance of the City of Storm Lake is amended as follows:

a. In "Article Three-Use Types", insert the following new subsection "c(6)." in Section 307 immediately after subsection "c(5)." of Section 307:

6. Non-Commercial Lawn and Garden Equipment Repair

A home based business that provides oil changes, engine tune ups, and general maintenance of non-commercial lawn & garden equipment such as lawnmowers, snow blowers, garden tilling, and similar unlicensed, non-recreational equipment, intended for use by urban homeowners. This use does not permit the rebuilding of small engines, painting, or welding of any kind. Uses are limited to dwelling garages and no work or storage outside of the garage is permitted. No customer drop offs are permitted and the business may only operate between the hours of 8:00 am and 8:00 pm.

b. In "Article Six-Supplemental Use Regulations", add the following to the end of Section 610, subsection (a)6(d) after "uses":

",except for Non-Commercial Lawn and Garden Equipment Repair, as defined in Article Three, Section 307, subsection c(6)."

Section 2. REPEALER. All ordinances or parts of ordinances in conflict with the provisions of this Ordinance are hereby repealed.

Section 3. EFFECTIVE DATE. This ordinance shall be in full force and effect from and after its passage and publication as provided by law.

PASSED AND APPROVED this _____ day of _____, 2022.

_____
Michael Porsch, Mayor

ATTEST:

_____
Mayra A. Martinez, City Clerk

Staff Summary

5/16/2022
Agenda Item # 6.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Brian Oakleaf, Finance Director

SUBJECT: **Ordinance No. 11-O-2021-2022 Providing for a New Water Rate Schedule - 2nd Reading**

BACKGROUND: Typically the City proposes rates for the Water Utility in 3 to 5 year increments. An independent Rate Study accompanies the suggested rate changes which factors in all aspects of the operations, but focuses on Capital Projects and possible debt.

While we did engage in a Rate Study, our BRIC application makes a five year plan impossible when there are variables in projects and debt in the neighborhood of tens of millions of dollars.

Our proposal is, instead, a simple one year increase to water rates of 5%, based not so much on debt and projects but as a response to soaring operation costs. Over the past several years a 3% annual increase was in place but given the economic environment, a 5% increase is more appropriate. Please also note that Iowa Code requires Municipal Enterprises to be self sufficient, which limits our ability to use other funds, revenue streams or outside sources to fund operations.

FISCAL IMPACT: For the City, an additional $212,850 in water revenue this year.

For Customers, the base Water rate for the first 1,500 gallons would go up $0.73, with an $0.22 increase per 1,000 additional gallons. For a 100 gallon a day residential account, that would equal $1.06 a month.

Around 24% of the revenue increase would come from Residential accounts, 76% from commercial and industrial. One of the reasons the Residential percentage may seem small is that

we have many Minimum Bill Residential accounts, meaning under 50 gallons of water a day.

RECOMMENDATION: Council pass on Second Reading: Ordinance No. 11-O-2021-2022 Setting Water Rates For The City Of Storm Lake.

Third Reading: June 6th, 2022

ATTACHMENTS:

	Description	Type
🗋	Ordinance 11-O-2021-2022	Ordinance

ORDINANCE NO. 11-O-2021-2022

ORDINANCE AMENDING CHAPTER 3-5 OF TITLE III OF THE CITY CODE OF THE CITY OF STORM LAKE, IOWA, TITLED AWATER RATES,@ TO PROVIDE FOR NEW RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL WATER RATES AND NEW MINIMUM RATES

WHEREAS, the City's water rates, set out in Section 3-5-1 in Chapter 3-5 of the City Code, for annual periods from 2016 through the present, need to be adjusted to reflect current costs and expenses; and

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF STORM LAKE, IOWA:

SECTION 1: AMENDMENTS TO SECTION 3-5-1: Chapter 3-5 of Title III of the City Code of the City of Storm Lake, Iowa, is hereby amended by striking Sections 3-5-1 of such Chapter and substituting in lieu thereof the following new Sections 3-5-1:

Section 3-5-1 Water Rates

a. Effective for billings made on or after July 1, 2021 and before July 1, 2022 water shall be furnished to consumers at the following monthly rates, per meter:

(A) Residential Rate:
A base rate of $14.53 for the first 1,500 gallons
$4.35 per 1,000 gallons for all water used in excess of 1,500 gallons

(B) Commercial and Industrial rates:
A base rate of $14.53 for the first 1,500 gallons
$4.35 per 1,000 gallons for the next 8,500 gallons.
$3.14 per 1,000 gallons for the next 150,000 gallons.
$3.00 per 1,000 gallons for the next 840,000 gallons.
$3.55 per 1,000 gallons for all water used in excess of 1,000,000 gallons.

Effective for billings made on or after July 1, 2022, water shall be furnished to consumers at the following monthly rates, per meter:

(A) Residential Rate:
A base rate of $15.26 for the first 1,500 gallons
$4.57 per 1,000 gallons for all water used in excess of 1,500 gallons

(B) Commercial and Industrial rates:
A base rate of $15.26 for the first 1,500 gallons
$4.57 per 1,000 gallons for the next 8,500 gallons.

$3.30 per 1,000 gallons for the next 150,000 gallons.
$3.15 per 1,000 gallons for the next 840,000 gallons.
$3.73 per 1,000 gallons for all water used in excess of 1,000,000 gallons.

b. The City Council may, by written contract, provide for commercial and industrial rates that are at variance with those set forth above if those same contracts provide long term guarantees that minimum payments will be made to the city to cover future bonded indebtedness during the term of the contract.

c. If a single meter serves a property or area containing one or more multiple dwellings, or an area or property with several residential dwellings, the residential rate shall apply.

d. If a single meter serves an area or property that is used for both residential purposes and for commercial and industrial purposes, the rate for the use that constitutes the majority of the consumption of water shall be used; or, the City Council may order that separate meters be installed to measure the water consumed by each such use.

e. Effective July 1, 2021, the minimum rate for each user of 1,500 gallons or less shall be $14.53 per month, per user; and effective July 1, 2022, the minimum rate for each user of 1,500 gallons or less shall be $15.26 per month, per user. If a single meter shall serve more than one dwelling unit, commercial user, or industrial user, the minimum rate shall be increased by a factor equal to the total number of such units or users being served. As used herein, a dwelling includes separate apartments, condominiums, mobile homes or distinct portions of a duplex or multi-family dwelling, but it does not include dormitory rooms, hotel rooms, motel rooms or boarding rooms without separate kitchen and bath facilities.

f. A Residential Consumer shall be charged the Residential Rates specified above. A Commercial Consumer and an Industrial Consumer shall each be charged the Commercial and Industrial Rates specified above. For purposed of this Section 3-5-1, the following definitions apply:

1. "RESIDENTIAL CONSUMER": A consumer purchasing water for single or multi-family dwelling units whether or not such units are used exclusively for family living purposes.

2. "COMMERCIAL CONSUMER": A consumer purchasing water who does not qualify as a residential consumer and whose average monthly consumption, computed on an annual basis, is less than one hundred sixty thousand (160,000) gallons per month.

3. "INDUSTRIAL CONSUMERS": A consumer purchasing water who does not qualify as a residential consumer and whose average monthly consumption, computed on an annual basis, is more than one hundred sixty thousand (160,000) gallons per month.

SECTION 2. REPEALER: All ordinances or parts of ordinances of the City of Storm

Lake, Iowa in conflict with the provisions of this Ordinance are hereby repealed.

SECTION 3. SAVINGS CLAUSE: If any section, provision, sentence, clause, phrase, or part of this Ordinance shall be adjudged invalid or unconstitutional, such adjudication shall not affect the validity of the Ordinance as a whole or any provision, section, subsection, sentence, clause, phrase, or part thereof not adjudged invalid or unconstitutional.

SECTION 4. EFFECTIVE DATE: This Ordinance shall be in full force and effect from and after its passage and publication as provided by law.

PASSED AND APPROVED this _____ day of _____, 2022.

_____
Michael Porsch, Mayor

ATTEST:

_____
Mayra A. Martinez, City Clerk

Staff Summary

5/16/2022
Agenda Item # 7.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Brian Oakleaf, Finance Director

SUBJECT: **Ordinance No. 12-O-2021-2022 Providing for a New Sewer Rate Schedule - 2nd Reading**

BACKGROUND: Typically the City proposes rates for the Sewer Utility in 3 to 5 year increments. An independent Rate Study accompanies the suggested rate changes which factors in all aspects of the operations, but focuses on Capital Projects and possible debt.

While we did engage in a Rate Study, our BRIC application makes a five year plan impossible when there are variables in projects and debt in the neighborhood of tens of millions of dollars.

Our proposal is, instead, a simple one year increase to sewer rates of 5%, based not so much on debt and projects but as a response to soaring operation costs. Over the past several years a 3% annual increase was in place but given the economic environment, a 5% increase is more appropriate. Please also note that Iowa Code requires Municipal Enterprises to be self sufficient, which limits our ability to use other funds, revenue streams or outside sources to fund operations.

FISCAL IMPACT: For the City, an additional $167,100 in sewer revenue this year.

For Customers, the Sewer base rate would increase $1.14 a month for all users, with a $0.22 increase per 1,000 gallons used. Using the same 100 gallon a day account as an example would result in an increase of $1.80. There is also a 5% increase for the per pound BOD, TSS and H6N2 charges.

Around 24% of the revenue increase would come from Residential accounts, 76% from commercial and industrial. One

of the reasons the Residential percentage may seem small is that we have many Minimum Bill Residential accounts, meaning under 50 gallons of water a day.

RECOMMENDATION: Council pass on Second Reading: Ordinance No. 12-O-2021-2022 Setting Sewer Rates For The City Of Storm Lake.

Third Reading: June 6th, 2022

ATTACHMENTS:

	Description	Type
🗋	Ordinance No. 12-O-2021-2022	Ordinance

ORDINANCE NO. 12-O-2021-2022

ORDINANCE AMENDING CHAPTER 3-3 OF TITLE III OF THE CITY CODE OF THE CITY OF STORM LAKE, IOWA, TITLED ASEWER RATES,@ TO PROVIDE FOR NEW RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL SEWER RATES AND NEW MINIMUM RATES

WHEREAS, the City's sewer rates, set out in Section 3-3-4 in Chapter 3-3 of the City Code, for annual periods from 2016 through the present, need to be adjusted to reflect current costs and expenses.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF STORM LAKE, IOWA:

SECTION 1: AMENDMENTS TO SECTION 3-3-4: Chapter 3-3 of Title III of the City Code of the City of Storm Lake, Iowa, is hereby amended by striking Sections 3-3-4 of such Chapter and substituting in lieu thereof the following new Sections 3-3-4:

Section 3-3-4 Rate Schedule

(A) Each user shall pay for the services provided by the City based on the user's use of the treatment works as determined by water meter(s) acceptable to the City.

(B) Each contributor shall pay a base user charge of twenty-two dollars and seventy-three cents ($22.73) per month per water meter utilized by such contributor and which charge shall be in addition to the charges set forth in subsections (D) and (E) which follow.

In addition, the base user charge shall automatically increase effective July 1, 2022 to twenty-three dollars and eighty-seven cents ($23.87) per month per water meter utilized by such contributor.

If a single meter shall serve more than one dwelling unit, commercial user, or industrial user, the base user charge shall be increased by a factor equal to the total number of such units or users being served. As used herein, a dwelling unit includes separate apartments, condominiums, mobile homes, or distinct portions of a duplex or multi-family dwelling, but it does not include dormitory rooms, hotel or motel rooms, or boarding rooms without separate kitchen and bath facilities.

(C) Amount of hydraulic loading subject to user charge:

1. In addition to the base rate, all residential contributors shall pay monthly user charges which shall be based on all water used by that contributor for that month at the rate set forth in subparagraph (D). If a residential contributor uses water for lawn watering which is not returned to the collection system, the user charge for that contributor may be based on a wastewater meter(s)

or separate water meter(s) installed and maintained at the contributor's expense, and in a manner acceptable to the City.

2. In addition to the base rate, all industrial and commercial contributors, which shall include all contributors who do not qualify as residential contributors, shall pay monthly user charges which shall be based on all water used by that contributor for that month at the rate set forth in subparagraph (D). If a commercial or industrial contributor has a consumptive use of water, or in some other manner uses water which is not returned to the wastewater collection system, the user charge for that contributor may be based on a wastewater meter(s) or separate water meter(s) installed and maintained at the contributor's expense, and in a manner acceptable to the City.

(D) Each contributor shall pay a user service charge for operation and maintenance including replacement and debt service of four dollars and thirty-seven cents ($4.37) per one thousand (1,000) gallons of water (or wastewater) used as determined in Subsection (A) of this Section 3-3-4. In addition, the user service charge for operation and maintenance including replacement and debt service shall increase effective July 1, 2022 to four dollars and fifty-nine cents ($4.59) per one thousand (1,000) gallons of water (or wastewater) used as determined in Subsection (A) of this Section 3-3-4.

(E) For those contributors who contribute wastewater the strength of which is greater than normal domestic sewage, a surcharge in addition to the normal user charge shall be paid. The surcharge for operation and maintenance including replacement is:

$.51 per pound BOD in excess of the BOD concentration in normal domestic wastewater;

Effective July 1, 2022, $.54 per pound BOD in excess of the BOD concentration in normal domestic wastewater;

$.41 per pound TSS in excess of the TSS concentration in normal domestic wastewater;

Effective July 1, 2022, $.43 per pound TSS in excess of the TSS concentration in normal domestic wastewater;

$1.94 per pound ammonia nitrogen in excess of the ammonia nitrogen concentration in normal domestic wastewater.

Effective July 1, 2022, $2.04 per pound ammonia nitrogen in excess of the ammonia nitrogen concentration in normal domestic wastewater.

(F) Any user which discharges any toxic pollutants which cause an increase in the cost of managing the effluent or the sludge from the City's treatment works, or any user which discharges any substance which singly or by interaction with other substances causes identifiable increases in the cost of operation, maintenance, or replacement of the treatment works, shall pay for such increased costs. The charge to each such user shall be as determined by the responsible plant operating personnel and approved by the City Council.

(G) The user charge rates established in this Section apply to all users of the domestic wastewater treatment facility located within the City limits. User charge rates for contributors outside of the

City limits whose rates are not established by contract shall be as determined by resolution of the Council, but they shall not be less than the user charge rates established for users located within the City limits. User charge rates for contributors located outside the City limits which are presently established by contract shall be honored for the duration of the contract but no renewal or modification of that contract shall be made which does not provide that the contributor shall pay user charge rates at least equal to those charged to users located within the City limits.

SECTION 2. REPEALER: All ordinances or parts of ordinances of the City of Storm Lake, Iowa in conflict with the provisions of this Ordinance are hereby repealed.

SECTION 3. SAVINGS CLAUSE: If any section, provision, sentence, clause, phrase, or part of this Ordinance shall be adjudged invalid or unconstitutional, such adjudication shall not affect the validity of the Ordinance as a whole or any provision, section, subsection, sentence, clause, phrase, or part thereof not adjudged invalid or unconstitutional.

SECTION 4. EFFECTIVE DATE: This Ordinance shall be in full force and effect from and after its passage and publication as provided by law.

PASSED AND APPROVED this _____ day of _____, 2022.

_____
Michael Porsch, Mayor

ATTEST:

_____
Mayra A. Martinez, City Clerk

Staff Summary

5/16/2022
Agenda Item # 8.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Brian Oakleaf, Finance Director

SUBJECT: **Motion to Amend the Warehouse Storage Facilities Operator Agreement with L & G Products, Inc.**

BACKGROUND: Following the City's departure from operations of the Storm Lake Marina, the DNR decided not to use the facility for offseason storage options. As an alternative, the City entered into a contract with L & G Products, Inc. to offer storage at the two city-owned buildings on Gold Wing Drive. That agreement would end on May 31st.

The DNR has now informed Marina customers that slips will not be available until at least June 24th, probably later. This amendment would simply extent the Agreement until July 31st, giving additional time to transition out of the buildings. There is no planned use of the facilities or negative impact of extending this use.

FISCAL IMPACT: This amendment would not change the fiscal impact of the signed agreement.

RECOMMENDATION: Pass Motion to Amend the Warehouse Storage Facilities Operator Agreement with L & G Products, Inc.

ATTACHMENTS:

Description	Type
Contract	Contract
Amended Contract	Contract

AGREEMENT FOR STORAGE SERVICES
WAREHOUSE STORAGE FACILITIES

This agreement for operation services is made this ___ day of ____, 2021, between the City of Storm Lake, Iowa (the "City") and _____ (the "Operator").

Recitals

The City is willing to permit a qualified manager to operate the Boat Storage Services at the Warehouse Storage Buildings.

The City selected Operator, as an independent private contractor, will operate the boat storage services at the Warehouse Facilities as a commercial operation during the term of, and under the provisions of, this Agreement, under the general management of the City.

The Operator will be responsible for providing the boat storage services and will manage the day-to-day operations of the boat storage services at the Warehouse Facilities.

In consideration of the mutual covenants, promises, and agreements herein contained, the City and Operator agree as follows:

ARTICLE 1
DUTIES OF OPERATOR

1.1 Duties and Responsibilities. The Operator agrees to maintain and manage the Warehouse Facilities for boat storage services.

Subject to the provisions of this Agreement, Operator shall have decision-making authority in the day-to-day operation, direction, management, and supervision of the Warehouse Facilities.

1.2. Services. The Operator shall provide services and customer service to the general public. The services to be provided by the Operator, at Operator's expense, shall include the following:

1. Boat Storage Services

1.3. Hours of Operation. Operator shall dictate the hours of operation for the Warehouse Facilities.

DRAFT

ARTICLE 2
TERM OF AGREEMENT

2.1 Term. Except as otherwise provided herein, this Agreement will commence October 4, 2021, and terminate May 1, 2022. The Operator will pay 25% of all rental income for the term of agreement payable at the midpoint of the term of the agreement.

ARTICLE 3
OPERATOR COMPENSATION

3.1 Revenues generated in the operation of the Warehouse Facilities shall be the Operator's, subject to the Operator's payment to the City of certain periodic concessionaire fees. The Operator will pay 25% of all rental income for the term of agreement payable at the midpoint of the term of the agreement.

ARTICLE 4
INSURANCE AND INDEMNIFICATION

4.1 General. Operator shall, at its own expense, purchase and maintain insurance to protect Operator and the City throughout the duration of this Agreement. All policies shall be written on a per occurrence basis, not a claims-made basis, and in form and amounts and with companies satisfactory to the City. All proofs of compliance with the insurance requirements under this Agreement are required as a condition of the Storm Lake City Council's approval of this Agreement. The City will be named as an additional insured.

ARTICLE 5
TERMINATION

5.1 Termination.

1. The City may at any time terminate this Agreement upon giving Operator thirty (30) days' notice in writing.

ARTICLE 6
GENERAL PROVISIONS

6.1 Rules, Regulations, and Policies. Operator shall observe and obey all rules, regulations, and policies that the City may adopt, from time to time, with respect to the use of the Warehouse Facilities.

6.2 Compliance with Law. Operator shall comply, at all times, at its own cost and expense, with all applicable ordinances and laws of city, county and state government and of the United States Government, and of any political division, subdivision, agency, authority or commission that has jurisdiction to pass laws or ordinances with respect to the

DRAFT

Warehouse Facilities or to the uses permitted in this Agreement. Operator shall not allow any illegal activity to be conducted or operated on Warehouse Facilities area.

6.3 Licenses and Permits. Operator shall obtain and/or maintain all applicable licenses and permits required by federal, state, or local law.

CITY OF STORM LAKE, IOWA

By: _____ **Date:** _____

Mayor

ATTEST:

_____

City Clerk

OPERATOR

By: _____ **Date:** _____

By: _____ **Date**: _____

DRAFT

AMENDMENT TO AGREEMENT FOR STORAGE SERVICES
WAREHOUSE STORAGE FACILITIES

This amendment to the agreement for operation services is made this 16th day of May, 2022, between the City of Storm Lake, Iowa (the "City") and L & G Products, Inc. (the "Operator").

Recitals

The City entered into an agreement with L & G Products commencing on October 4, 2021 to operate the Boat Storage Services at the Warehouse Storage Buildings.

The City and Operator desire to amend the Section 2.1 agreement and extend to July 1, 2022. All other provisions in the agreement remain in effect.

In consideration of the mutual covenants, promises, and agreements herein contained, the City and Operator agree as follows:

ARTICLE 2
TERM OF AGREEMENT

Previous

2.1 Term. Except as otherwise provided herein, this Agreement will commence October 4, 2021, and terminate May 1, 2022. The Operator will pay 25% of all rental income for the term of agreement payable at the midpoint of the term of the agreement.

Amended

Term. Except as otherwise provided herein, this Agreement will commence October 4, 2021, and terminate July 31, 2022. The Operator will pay 25% of all rental income for the term of agreement payable at the midpoint of the term of the agreement.

CITY OF STORM LAKE, IOWA

By: _____ **Date:** _____

Michael Porsch, Mayor

ATTEST:

_____
Mayra A. Martinez, City Clerk

OPERATOR

By: _____ **Date:** _____

Staff Summary

5/16/2022
Agenda Item # 9.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Keri Navratil, City Manager

SUBJECT: **Motion to Approve Resolution No. 76-R-2021-2022 Authorizing Local Match for FEMA HMA Grant Application**

BACKGROUND: The City is applying through the Iowa Homeland Security and Emergency Management Division to the Federal Emergency Management Agency (FEMA) for funding from the FEMA HMA grant program in the amount of $2,932,527 for improvements to the City's Water & Wastewater Infrastructure related to Flood Mitigation.
The grant is based on a cost share basis with the federal share not exceeding 75%, state share not exceeding 10% and the local share being a minimum of 15% of the total project cost.

FISCAL IMPACT: The cost of this project of this project for the City will be up to $461,873 to meet the minimum 15% match for the grant application.

RECOMMENDATION: Approve Resolution No. 76-R-2021-2022 authorizing the local match for the FEMA HMA grant application

ATTACHMENTS:

	Description	Type
🗋	Resolution No. 76-R-2021-2022	Resolution

LOCAL MATCH RESOLUTION # 76-R-2021-2022

FOR THE

HAZARD MITIGATION ASSISTANCE PROGRAM

WHEREAS, the City of Storm Lake (hereinafter called "the Subrecipient"), County of
(jurisdiction)
Buena Vista, has made application through the Iowa Department Homeland Security and Emergency Management (HSEMD) to the Federal Emergency Management Agency (FEMA) for funding from the Hazard Mitigation Assistance Program, in the amount of $2,932,527 for the total project cost,

and

WHEREAS, the Subrecipient recognizes the fact that this grant is based on a cost share basis with the federal share not exceeding 75%, the state share not exceeding 10%, and the local share being a ***minimum*** of 15% of the total project cost. The ***minimum*** 15% local share can be either cash or in-kind match.

and

THEREFORE, the Subrecipient agrees to provide and make available up to $ 461,873 (four hundred sixty-one thousand eight hundred seventy-three dollars) of local monies to be used to meet the ***minimum*** local match requirement for this mitigation grant application.

The resolution was passed and approved this 16 day of May , 2022

Signatures of Council or Board Members:

Council or Board Member	Council or Board Member
Council or Board Member	Council or Board Member
Council or Board Member	Council or Board Member
Council or Board Member	Council or Board Member
Council or Board Member	Council or Board Member

I submit this form for inclusion with the Hazard Mitigation Assistance Project Application.

Keri Navratil
Print Name of Authorized Representative

Authorized Representative's Signature and Date

Staff Summary

5/16/2022
Agenda Item # 10.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: David Derragon, Assistant City Manager

SUBJECT: **Public Hearing for the Richland Street, Phase 2 Improvements Plans, Specifications, and Form of Contract**

BACKGROUND: This project provides for the reconstruction of Richland Street from Industry Street to Radio Road (120th Avenue) in the City. The project includes the removal and replacement of a failing collector street in a 60 foot right of way with a new pavement section to carry the current and projected traffic loading. The pavement is beyond its useful life and would require substantial panel replacement to bring back to a useful level. The road is a main East West corridor connecting Highway 7 to Highway 71. Business located along the roadway include Tyson Foods and Tyson Poultry. The project will include a 31 foot wide, 8" thick PCC pavement on East Richland Street, from Industry Street .5 miles to Radio Road Pavement Rehab. In addition, several full panel patches will be included where individual panels have failed east of Expansion Boulevard.

The Engineer's Opinion of Probable Cost is $1,583,053.30. The city received 50% STP funding for covered project costs of $327,057 which is $163,528. All improvements are roadway related. This project is in the City's Capital Improvement Program. The $168,528 funding request was approved in 2018.

The balance of the construction cost will be local match and provided through Road Use, Franchise Fee, and Local Option Sales Tax Funds.

FISCAL IMPACT: The Engineer's Opinion of Probable Construction Cost is $1,583,053.80.

RECOMMENDATION: Open Public Hearing
Take Public Comments
Close Public Hearin

ATTACHMENTS:

	Description	Type
🗋	Notice of Public Hearing	Backup Material
🗋	Project Manual	Backup Material
🗋	Engineer's Estimate of Construction Cost	Backup Material

NOTICE OF PUBLIC HEARING

Richland Street, Phase 2 Improvements
City of Storm Lake

Public Hearing on Proposed Contract Documents and Estimated Costs for Repair or Improvement. A public hearing will be held by the City of Storm Lake on the proposed contract documents (plans, specifications and form of contract) and estimated cost for the improvement at its meeting at 5:00 P.M. on May 16, 2022, at 620 Erie Street, in Storm Lake, Iowa.

Project Description: Street, sanitary sewer, watermain, and storm sewer reconstruction of Richland Street from Industry Street to Expansion Boulevard and street patching with utility improvements from Expansion Boulevard to Radio Road, and related improvements as indicated within the construction documents.

This Notice is given by authority of the
City of Storm Lake

_____

Mayra Martinez
City Clerk

CONTRACTS AND SPECIFICATIONS BUREAU
Proposal

Proposal ID: 11-7422-620 **Letting Date:** April 19, 2022

Call Order No.: 102

Proposal Work Type: PCC PAVEMENT - REPLACE

DBE Goal: 0.0%

Contracting Authority: CITY OF STORM LAKE

Proposal Guaranty: $100,000.00

This proposal includes the following project(s):

Project Number: STBG-SWAP-7422(620)--SG-11 **County:** BUENA VISTA

Project Work Type: PCC PAVEMENT - REPLACE **Route:** RICHLAND ST.

Location: In the city of Storm Lake, On E Richland St., from Industry St east 600 Feet to Radio Road

Road System: URBAN

Federal Aid - Wages: Non-Federal Aid - Predetermined Wages are not in Effect

Contract Time

Proposal ID: 11-7422-620 **Call Order No.:** 102
Letting Date: April 19, 2022

Site ID	Site Details				Liquidated Damages
00	Late Start Date	06/06/2022	80	WORK DAYS	$1,000.00

.

(*) - Indicates Cost Plus Time Site. See Schedule of Items for Cost Per Unit

Proposal Notes

Proposal ID: 11-7422-620 **Call Order No.:** 102
Letting Date: April 19, 2022

Proposal Notes :

There are no notes for this proposal.

Proposal Specifications List

Proposal ID: 11-7422-620 **Call Order No.:** 102
Letting Date: April 19, 2022

Note	Description
001.2015	*** STANDARD SPECIFICATIONS -- SERIES 2015 *** The Iowa Department of Transportation STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2015, plus applicable General Supplemental Specifications, Developmental Specifications, Supplemental Specifications AND Special Provisions shall apply to construction work on this contract.
005.15014.01	*** REVISIONS TO GS-15014 *** 2601.03, C, 2, b, Seed Mixture. Add note to Table 2601.03-2: 3. For 2022 construction season only, a partial or full substitution of the required 25 pounds of Creeping Red Fescue is allowed with any of the following varieties: Chewing Fescue, Hard Fescue, Sheep's Fescue or Blue Fescue. 2601.03, C, 3, b, Seed Mixture. Add note to Table 2601.03-3: * For 2022 construction season only, ryegrass rate may be reduced to 30 pounds per acre as long as the fescue rate is increased to 150 pounds per acre. 2601.03, C, 4, b, Seed Mixture. Add note to Table 2601.03-4: 3. For 2022 construction season only, a partial or full substitution of the required 25 pounds of Creeping Red Fescue is allowed with any of the following varieties: Chewing Fescue, Hard Fescue, Sheep's Fescue or Blue Fescue.
500.01	*** WINTER WORK *** The free time allowed between November 15 and April 1 will not be permitted on this project. The Contractor shall work during the winter on all working days as defined in Article 1101.03 'Working Day'.
GS-15014	GENERAL SUPPLEMENTAL SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0010	2102-2713070 EXCAVATION, CLASS 13, ROADWAY AND BORROW	10,940.000 CY	_____	_____	_____	_____
0020	2105-8425015 TOPSOIL, STRIP, SALVAGE AND SPREAD	3,969.000 CY	_____	_____	_____	_____
0030	2107-0875000 COMPACTION WITH MOISTURE AND DENSITY CONTROL	4,697.000 CY	_____	_____	_____	_____
0040	2115-0100000 MODIFIED SUBBASE	846.000 CY	_____	_____	_____	_____
0050	2121-7425010 GRANULAR SHOULDERS, TYPE A	152.900 TON	_____	_____	_____	_____
0060	2123-7450000 SHOULDER CONSTRUCTION, EARTH	8.100 STA	_____	_____	_____	_____
0070	2128-0000120 FURNISH AND APPLY GRANULAR SHOULDER MATERIAL	305.000 TON	_____	_____	_____	_____
0080	2301-1033080 STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 8 IN.	4,354.200 SY	_____	_____	_____	_____
0090	2315-8275025 SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	160.000 TON	_____	_____	_____	_____
0100	2401-6745650 REMOVAL OF EXISTING STRUCTURES	 LUMP SUM	 LUMP SUM		_____	_____
0110	2402-2720100 EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	415.300 CY	_____	_____	_____	_____

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0120	2416-0100018 APRONS, CONCRETE, 18 IN. DIA.	7.000 EACH	_____._____		_____._____	
0130	2416-0100024 APRONS, CONCRETE, 24 IN. DIA.	11.000 EACH	_____._____		_____._____	
0140	2416-0100030 APRONS, CONCRETE, 30 IN. DIA.	3.000 EACH	_____._____		_____._____	
0150	2416-0100042 APRONS, CONCRETE, 42 IN. DIA.	1.000 EACH	_____._____		_____._____	
0160	2416-0102224 APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 24 IN.	4.000 EACH	_____._____		_____._____	
0170	2416-1170018 CULVERT, 3000D CONCRETE ENTRANCE PIPE, 18 IN. DIA.	200.000 LF	_____._____		_____._____	
0180	2416-1170024 CULVERT, 3000D CONCRETE ENTRANCE PIPE, 24 IN. DIA.	64.000 LF	_____._____		_____._____	
0190	2416-1170030 CULVERT, 3000D CONCRETE ENTRANCE PIPE, 30 IN. DIA.	64.000 LF	_____._____		_____._____	
0200	2416-1202224 CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 24 IN.	112.000 LF	_____._____		_____._____	
0210	2416-1240024 CULVERT, 3000D CONCRETE ROADWAY PIPE, 24 IN. DIA.	160.000 LF	_____._____		_____._____	
0220	2435-0130148 MANHOLE, SANITARY SEWER, SW-301, 48 IN.	1.000 EACH	_____._____		_____._____	

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0230	2435-0140160 MANHOLE, STORM SEWER, SW-401, 60 IN.	1.000 EACH	_____.____		_____.____	
0240	2435-0140184 MANHOLE, STORM SEWER, SW-401, 84 IN.	1.000 EACH	_____.____		_____.____	
0250	2435-0250500 INTAKE, SW-505	4.000 EACH	_____.____		_____.____	
0260	2435-0600010 MANHOLE ADJUSTMENT, MINOR	1.000 EACH	_____.____		_____.____	
0270	2435-0700010 CONNECTION TO EXISTING MANHOLE	3.000 EACH	_____.____		_____.____	
0280	2502-8212206 SUBDRAIN, PERFORATED PLASTIC PIPE, 6 IN. DIA.	1,982.000 LF	_____.____		_____.____	
0290	2502-8221006 SUBDRAIN RISER, 6 IN., AS PER PLAN	5.000 EACH	_____.____		_____.____	
0300	2502-8221303 SUBDRAIN OUTLET, DR-303	9.000 EACH	_____.____		_____.____	
0310	2503-0110018 STORM SEWER GRAVITY MAIN, TRENCHED, 18 IN.	83.000 LF	_____.____		_____.____	
0320	2503-0110024 STORM SEWER GRAVITY MAIN, TRENCHED, 24 IN.	413.000 LF	_____.____		_____.____	
0330	2503-0110030 STORM SEWER GRAVITY MAIN, TRENCHED, 30 IN.	99.000 LF	_____.____		_____.____	

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0340	2503-0110036 STORM SEWER GRAVITY MAIN, TRENCHED, 36 IN.	32.000 LF	_____.____		_____.____	
0350	2503-0110042 STORM SEWER GRAVITY MAIN, TRENCHED, 42 IN.	80.000 LF	_____.____		_____.____	
0360	2503-0200036 REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	100.000 LF	_____.____		_____.____	
0370	2504-0114008 SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 8 IN.	62.000 LF	_____.____		_____.____	
0380	2504-0114024 SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 24 IN.	175.000 LF	_____.____		_____.____	
0390	2504-0200406 SANITARY SEWER SERVICE STUB, POLYVINYL CHLORIDE PIPE (PVC), 6 IN.	50.000 LF	_____.____		_____.____	
0400	2504-0240036 REMOVE SANITARY SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	250.000 LF	_____.____		_____.____	
0410	2507-3250005 ENGINEERING FABRIC	70.000 SY	_____.____		_____.____	
0420	2507-6800061 REVETMENT, CLASS E	50.000 TON	_____.____		_____.____	
0430	2510-6745850 REMOVAL OF PAVEMENT	3,710.500 SY	_____.____		_____.____	
0440	2515-2475008 DRIVEWAY, P.C. CONCRETE, 8 IN.	243.000 SY	_____.____		_____.____	

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0450	2515-6745600 REMOVAL OF PAVED DRIVEWAY	532.400 SY	_____._____		_____._____	
0460	2524-6765010 REMOVE AND REINSTALL SIGN AS PER PLAN	22.000 EACH	_____._____		_____._____	
0470	2528-2518000 SAFETY CLOSURE	6.000 EACH	_____._____		_____._____	
0480	2528-8445110 TRAFFIC CONTROL	 LUMP SUM	LUMP SUM		_____._____	
0490	2528-8445113 FLAGGERS	30.000 EACH	540.00000		16,200.00	
0500	2529-5070110 PATCHES, FULL-DEPTH FINISH, BY AREA	471.000 SY	_____._____		_____._____	
0510	2529-5070111 PATCHES, FULL-DEPTH FINISH, BY AREA (50 FEET OR GREATER IN LENGTH)	668.000 SY	_____._____		_____._____	
0520	2529-5070120 PATCHES, FULL-DEPTH FINISH, BY COUNT	22.000 EACH	_____._____		_____._____	
0530	2529-8202000 RUMBLE STRIP PANEL (IN FULL DEPTH PATCH)	1.000 EACH	_____._____		_____._____	
0540	2530-5070210 PATCHES, PARTIAL-DEPTH P.C.C. FINISH	217.000 SF	_____._____		_____._____	
0550	2530-5070240 PARTIAL DEPTH PCC JOINT AND CRACK REPAIR PATCHES	21.000 LF	_____._____		_____._____	

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0560	2533-4980005 MOBILIZATION	LUMP SUM	LUMP SUM		_____	_____
0570	2537-8900000 REMEDIATION OF PETROLEUM CONTAMINATED SOIL	1,160.000 CY	_____	_____	_____	_____
0580	2537-8900100 SAMPLING AND TESTING FOR PETROLEUM CONTAMINATION (WATER AND SOIL SAMPLES FOR REMEDIATION OF PETROLEUM CONTAMINATED SOIL)	4.000 EACH	_____	_____	_____	_____
0590	2549-0041060 BYPASS PUMPING SEWAGE	1.000 LS	_____	_____	_____	_____
0600	2554-0112006 WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 6 IN.	119.000 LF	_____	_____	_____	_____
0610	2554-0112008 WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 8 IN.	90.000 LF	_____	_____	_____	_____
0620	2554-0112012 WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 12 IN.	732.000 LF	_____	_____	_____	_____
0630	2554-0203000 FITTINGS BY WEIGHT, DUCTILE IRON	2,026.000 LB	_____	_____	_____	_____
0640	2554-0204120 WATER SERVICE STUB, COPPER, 2 IN.	3.000 EACH	_____	_____	_____	_____
0650	2554-0205720 WATER SERVICE CURB STOP AND BOX, COPPER, 2 IN.	3.000 EACH	_____	_____	_____	_____
0660	2554-0207006 VALVE, GATE, DIP, 6 IN.	3.000 EACH	_____	_____	_____	_____

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0670	2554-0207012 VALVE, GATE, DIP, 12 IN.	2.000 EACH	_____._____		_____._____	
0680	2554-0208006 TAPPING VALVE ASSEMBLY, 6 IN.	4.000 EACH	_____._____		_____._____	
0690	2554-0208012 TAPPING VALVE ASSEMBLY, 12 IN.	1.000 EACH	_____._____		_____._____	
0700	2554-0210201 FIRE HYDRANT ASSEMBLY, WM-201	2.000 EACH	_____._____		_____._____	
0710	2554-0211006 FLUSHING DEVICE (BLOWOFF), 6 IN.	3.000 EACH	_____._____		_____._____	
0720	2554-0214000 FIRE HYDRANT ADJUSTMENT	5.000 EACH	_____._____		_____._____	
0730	2555-0000010 DELIVER AND STOCKPILE SALVAGED MATERIALS	LUMP SUM	LUMP SUM		_____._____	
0740	2599-9999005 ('EACH' ITEM) CONNECT TO EXISTING SANITARY SEWER	5.000 EACH	_____._____		_____._____	
0750	2599-9999005 ('EACH' ITEM) CONNECT TO EXISTING STORM SEWER	6.000 EACH	_____._____		_____._____	
0760	2599-9999005 ('EACH' ITEM) CONNECT TO EXISTING WATER MAIN	7.000 EACH	_____._____		_____._____	
0770	2599-9999005 ('EACH' ITEM) MANHOLE, WATER MAIN AIR RELEASE VALVE	1.000 EACH	_____._____		_____._____	
0780	2599-9999005 ('EACH' ITEM) SALVAGE FIRE HYDRANT	2.000 EACH	_____._____		_____._____	

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0790	2599-9999005 ('EACH' ITEM) TILE REPAIR 12 OR LESS	5.000 EACH	_____._____		_____._____	
0800	2599-9999005 ('EACH' ITEM) TILE REPAIR 12-24	5.000 EACH	_____._____		_____._____	
0810	2599-9999007 ('HOURS' ITEM) EXPLORATORY EXCAVATION, GENERAL	20.000 HOUR	_____._____		_____._____	
0820	2599-9999007 ('HOURS' ITEM) EXPLORATORY EXCAVATION, VAC TRUCK	20.000 HOUR	_____._____		_____._____	
0830	2599-9999009 ('LINEAR FEET' ITEM) WATER MAIN REMOVAL OR ABANDONMENT	917.000 LF	_____._____		_____._____	
0840	2599-9999010 ('LUMP SUM' ITEM) TEMPORARY WATER	LUMP SUM	LUMP SUM		_____._____	
0850	2599-9999018 ('SQUARE YARDS' ITEM) POLYSTYRENE INSULATION, 4	8.000 SY	_____._____		_____._____	
0860	2601-2636043 SEEDING AND FERTILIZING (RURAL)	1.720 ACRE	_____._____		_____._____	
0870	2601-2636044 SEEDING AND FERTILIZING (URBAN)	1.560 ACRE	_____._____		_____._____	
0880	2601-2638352 SLOPE PROTECTION, WOOD EXCELSIOR MAT	1,015.000 SQ	_____._____		_____._____	
0890	2601-2640350 SPECIAL DITCH CONTROL, WOOD EXCELSIOR MAT	384.000 SQ	_____._____		_____._____	

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0900	2602-0000020 SILT FENCE	1,842.000 LF	_____	_____	_____	_____
0910	2602-0000030 SILT FENCE FOR DITCH CHECKS	565.000 LF	_____	_____	_____	_____
0920	2602-0000071 REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	2,407.000 LF	_____	_____	_____	_____
0930	2602-0000101 MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	2,407.000 LF	_____	_____	_____	_____
0940	2602-0000150 STABILIZED CONSTRUCTION ENTRANCE, EC-303	190.000 LF	_____	_____	_____	_____
0950	2602-0000309 PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA.	500.000 LF	_____	_____	_____	_____
0960	2602-0000530 GRATE INTAKE SEDIMENT FILTER BAG	8.000 EACH	_____	_____	_____	_____
0970	2602-0000540 MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG	8.000 EACH	_____	_____	_____	_____
0980	2602-0000550 REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG	8.000 EACH	_____	_____	_____	_____
0990	2602-0010010 MOBILIZATIONS, EROSION CONTROL	8.000 EACH		500.00000		4,000.00

Section: 0001 **Total:** _____.____

Total Bid: _____.____

SHEET TOTAL 69 PAGES

PCC PAVEMENT - REPLACE

STBG-SWAP-7422(620)--SG-11

LETTING DATE

APRIL 19, 2022

CITY OF STORM LAKE

CITY OF STORM LAKE, IA

URBAN ROAD SYSTEM

EAST RICHLAND STREET, FROM INDUSTRY STREET EAST 600 FEET TO RADIO ROAD

PCC PAVEMENT - GRADE AND REPLACE

INDEX OF TABULATIONS

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DE 100 1D	PROJECT DESCRIPTION	C.01
DE 100 4A	ESTIMATE REFERENCE INFORMATION	C.02 - C.04
DE 100 22	ROLLED EROSION CONTROL	C.05
DE 100 17	TABULATION OF SILT FENCES	C.05
DE 100-18	SILT FENCES FOR DITCH CHECKS	C.05
DE 100-19	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	C.05
DE 100 24	PCC PAVEMENT	C.06
DE 100 37	GRATE INTAKE SEDIMENT FILTER BAG	C.06
DE 102 6C	FULL DEPTH PATCHES	C.07
DE 102 10	PARTIAL DEPTH PCC FINISH PATCHES	C.07
DE 104 3	DRAINAGE STRUCTURE BY ROAD CONTRACTOR	C.07
	STORM SEWER STRUCTURES AND PIPES	C.08
DE 104 5C	LIST OF SUBDRAIN WORK	C.09
DE 104 10	ADJUSTMENT OF FIXTURES	C.09
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DE 110 1	REMOVAL OF PAVEMENT	C.10
DE 110 8	REMOVAL OF CONCRETE DRIVES	C.10
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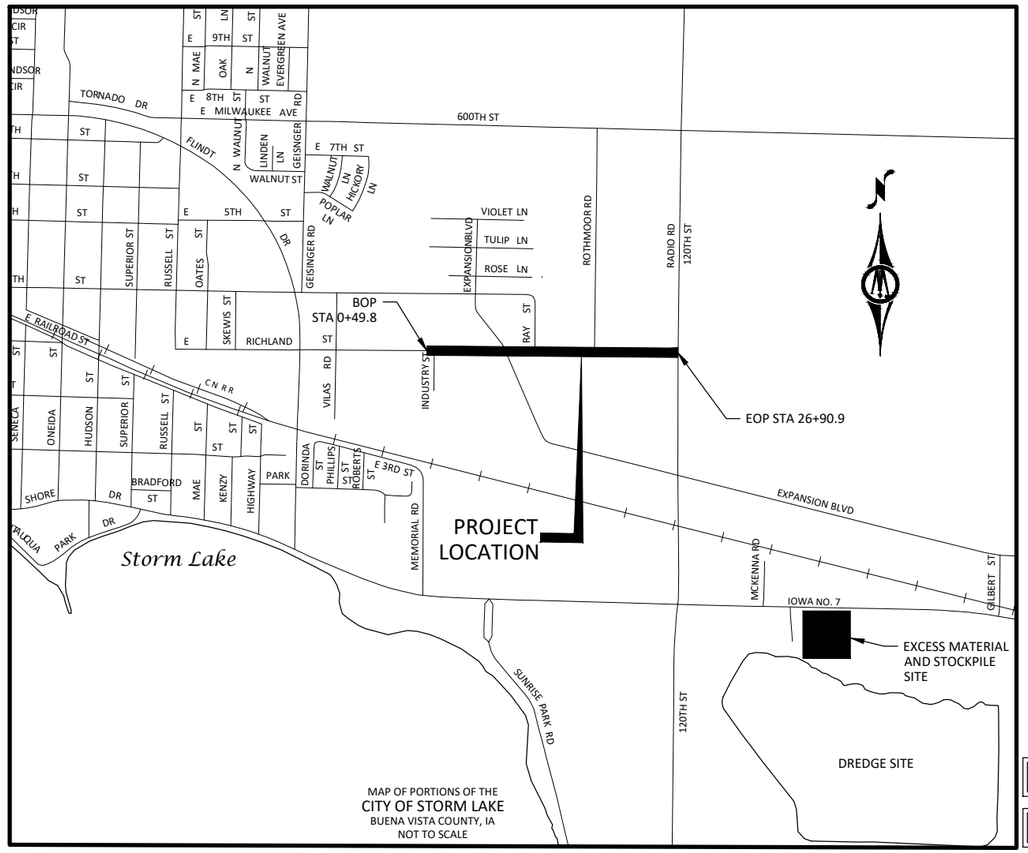

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B.01 - B.03	TYPICAL SECTION / DETAILS
C.01 - C.04	QUANTITIES AND ESTIMATE REFERENCE NOTES
C.05 - C.12	TABULATION TABLES
D.01 - D.04	RICHLAND STREET PLAN & PROFILE
ED.01 - ED.09	DRAINAGE CHANNEL & ROADWAY DITCHES
G.01 - G.04	EXISTING CONDITIONS
G.05 - G.08	SURVEY CONTROL POINTS
J.01 - J.03	DETOUR/TRAFFIC CONTROL/STAGING/SIGN TABULATION
L.01 - L.03	INTERSECTION DETAILS
M.01 - M.07	STORM SEWER PLAN & PROFILE
MSA.01	SANITARY SEWER PLAN & PROFILE
MWM.01 - MWM.03	WATER PLAN & PROFILE
R.01 - R.03	REMOVALS
RC.01 - RC.05	SWPPP/EROSION CONTROL PLAN
W.01 - W.06	CROSS SECTIONS

THIS PROJECT IS COVERED BY THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF GENERAL PERMIT NO. 2 AND THE STORM WATER POLLUTION PLAN WHICH IS A PART OF THESE CONTRACT DOCUMENTS. REFER TO SECTION 2602 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.15 of the Specifications.

IOWA ONE CALL
1-800-292-8989 | 811
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PLAN REVISIONS		
DATE	SHEET NUMBER	APPROVED BY

RESOURCE LIST

CITY OF STORM LAKE

City Hall
620 Erie Street
P.O. Box 1086
Storm Lake, IA 50588

City Manager:
Keri Navratil
Assistant City Manager:
David Derragon

Mayor: Mike Porsch

City Council Members:
Dan Smith
Jose Ibarra
Kevin Mckinney
Maria Ramos
Tyson Rice

Infrastructure Engineer:
Josh Pope P.E.
Bolton & Menk, Inc.
218 11th Street SW Plaza
712-580-5075

Public Services Supervisor:
Scott Bonebrake

UTILITIES

GAS
Alliant Energy
Storm Lake, IA 50588
1-800-822-4348

TELEPHONE/CABLE
Long Lines
118 E. 5th St.
Storm Lake, IA 50588
712-213-7425

Mediacom
720 Lake Ave.
Storm Lake, IA 50588
855-633-4226

Century Link
426 Lake Ave.
Storm Lake, IA 50588
1-800-261-1691

LOCAL
City of Storm Lake
433 Vilas Rd.
Storm Lake, IA 50588
712-732-8029

ELECTRIC
Mid American
1016 Vestal Street
Storm Lake, IA 50588
888-427-5632

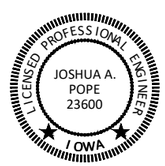
MILEAGE SUMMARY	105-1 09-27-94	
Div.	Location	Lin. Ft.	Miles
1	RICHLAND ST.: STA. 0+49.8 TO STA. 26+90.9	2641.1	0.50

04-30-02 101-7

DESIGN DATA
RICHLAND STREET

2019 AADT	2210	V.P.D.
2054 AADT	3950	V.P.D.
2054 D.H.V.		V.P.H.
TRUCKS	15	%
TOTAL DESIGN ESALS	880,000	

REVIEWED & APPROVED _____ DATE: 11/16/2021
Public Services Supervisor



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

JOSHUA A. POPE, P.E.

LIC. NO. 23600 DATE: 01/17/2022

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021

PAGES OR SHEETS COVERED BY THIS SEAL:

ALL SHEETS

BOLTON & MENK

218 11TH STREET SW PLAZA
SPENCER, IOWA 51301
Phone: (712) 580-5075
Email: Spencer@bolton-menk.com
www.bolton-menk.com

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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER A.01	REVISED

EXISTING TOPOGRAPHIC SYMBOLS

- ACCESS GRATE
- AIR CONDITION UNIT
- ANTENNA
- AUTO SPRINKLER CONNECTION
- BARRICADE PERMANENT
- BASKETBALL POST
- BENCH
- BIRD FEEDER
- BOLLARD
- BUSH
- CATCH BASIN RECTANGULAR CASTING
- CATCH BASIN CIRCULAR CASTING
- CURB STOP
- CLEAN OUT
- CULVERT END
- DRINKING FOUNTAIN
- DOWN SPOUT
- FILL PIPE
- FIRE HYDRANT
- FLAG POLE
- FLARED END / APRON
- FUEL PUMP
- GRILL
- GUY WIRE ANCHOR
- HANDHOLE
- HANDICAP SPACE
- IRRIGATION SPRINKLER HEAD
- IRRIGATION VALVE BOX
- LIFT STATION CONTROL PANEL
- LIFT STATION
- LIGHT ON POLE
- LIGHT-GROUND
- MAILBOX
- MANHOLE-COMMUNICATION
- MANHOLE-ELECTRIC
- MANHOLE-GAS
- MANHOLE-HEAT
- MANHOLE-SANITARY SEWER
- MANHOLE-STORM SEWER
- MANHOLE-UTILITY
- MANHOLE-WATER
- METER
- ORDER MICROPHONE
- PARKING METER
- PAVEMENT MARKING
- PEDESTAL-COMMUNICATION
- PEDESTAL-ELECTRIC
- PEDESTRIAN PUSH BUTTON
- PICNIC TABLE
- POLE-UTILITY
- POST
- RAILROAD SIGNAL POLE
- REGULATION STATION GAS
- SATELLITE DISH
- SIGN TRAFFIC
- SIGNAL CONTROL CABINET
- SOIL BORING
- SIREN
- TELEPHONE BOOTH
- TILE INLET
- TILE OUTLET
- TILE RISER
- TRANSFORMER-ELECTRIC
- TREE-CONIFEROUS
- TREE-DEAD
- TREE-DECIDUOUS
- TREE STUMP
- TRAFFIC ARM BARRIER
- TRAFFIC SIGNAL
- TRASH CAN
- UTILITY MARKER
- VALVE
- VALVE POST INDICATOR
- VALVE VAULT
- VENT PIPE
- WATER SPIGOT
- WELL
- WETLAND DELINEATED MARKER
- WETLAND
- WET WELL
- YARD HYDRANT

PROPOSED TOPOGRAPHIC SYMBOLS

- CLEANOUT
- MANHOLE
- LIFT STATION
- STORM SEWER CIRCULAR CASTING
- STORM SEWER RECTANGULAR CASTING
- STORM SEWER FLARED END / APRON
- STORM SEWER OUTLET STRUCTURE
- STORM SEWER OVERFLOW STRUCTURE
- CURB BOX
- FIRE HYDRANT
- WATER VALVE
- WATER REDUCER
- WATER BEND
- WATER TEE
- WATER CROSS
- WATER SLEEVE
- WATER CAP / PLUG
- RIP RAP
- DRAINAGE FLOW
- TRAFFIC SIGNS

SURVEY SYMBOLS

- BENCH MARK LOCATION
- CONTROL POINT
- MONUMENT IRON FOUND
- CAST IRON MONUMENT

EXISTING TOPOGRAPHIC LINES

- RETAINING WALL
- FENCE
- FENCE-DECORATIVE
- GUARD RAIL
- TREE LINE
- BUSH LINE

SURVEY LINES

- CONTROLLED ACCESS
- BOUNDARY
- CENTERLINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- EXISTING LOT LINE
- PROPOSED LOT LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY

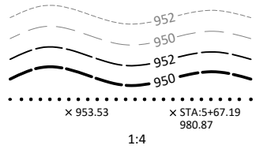
EXISTING UTILITY LINES

- FORCEMAIN
- SANITARY SEWER
- SANITARY SERVICE
- STORM SEWER
- STORM SEWER DRAIN TILE
- WATERMAIN
- WATER SERVICE

PROPOSED UTILITY LINES

- FORCEMAIN
- SANITARY SEWER
- SANITARY SERVICE
- STORM SEWER
- STORM SEWER DRAIN TILE
- WATERMAIN
- WATER SERVICE

GRADING INFORMATION



- EXISTING CONTOUR MINOR
- EXISTING CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED GRADING LIMITS / SLOPE LIMITS
- PROPOSED SPOT ELEVATION
- RISE:RUN (SLOPE)

HATCH PATTERNS

- ASPHALT
- CONCRETE
- GRAVEL
- LEAN CLAY WITH SAND
- LEAN CLAY
- FILL
- CLAYEY SAND

EXISTING PRIVATE UTILITY LINES

NOTE:
EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY IOWA ONE CALL, 1-800-292-8989.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"

- F F F F — UNDERGROUND FIBER OPTIC
- E E E E — UNDERGROUND ELECTRIC
- G G G G — UNDERGROUND GAS
- C C C C — UNDERGROUND COMMUNICATION
- OE OE OE — OVERHEAD ELECTRIC
- OC OC OC — OVERHEAD COMMUNICATION
- OU OU OU — OVERHEAD UTILITY

UTILITIES IDENTIFIED WITH A QUALITY LEVEL :

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL
EXAMPLE: G-A G-A — UNDERGROUND GAS, QUALITY LEVEL A
UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-02.

UTILITY QUALITY LEVELS:

QUALITY LEVEL D: PROVIDES THE MOST BASIC LEVEL OF INFORMATION. IT INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS. RECORDS MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICES MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASES, CONSTRUCTION PLANS, ETC.

QUALITY LEVEL C: INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. INCLUDES QUALITY LEVEL D ACTIVITIES.

QUALITY LEVEL B: INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND COLLECTING THE INFORMATION THROUGH A SURVEY METHOD. INCLUDES QUALITY LEVEL C AND D TASKS.

QUALITY LEVEL A: PROVIDES THE HIGHEST LEVEL OF ACCURACY. IT INVOLVES LOCATING OR POTHOLING UTILITIES AS WELL AS ACTIVITIES IN QUALITY LEVELS B, C, AND D. THE LOCATED FACILITY INFORMATION IS SURVEYED AND MAPPED AND THE DATA PROVIDES PRECISE PLAN AND PROFILE INFORMATION.

ABBREVIATIONS

A	ALGEBRAIC DIFFERENCE	GRAV	GRAVEL	RT	RIGHT
ADJ	ADJUST	GU	GUTTER	SAN	SANITARY SEWER
ALT	ALTERNATE	GV	GATE VALVE	SCH	SCHEDULE
B-B	BACK TO BACK	HDPE	HIGH DENSITY POLYETHYLENE	SERV	SERVICE
BIT	BITUMINOUS	HH	HANDHOLE	SHLD	SHOULDER
BLDG	BUILDING	HP	HIGH POINT	STA	STATION
BMP	BEST MANAGEMENT PRACTICE	HWL	HIGH WATER LEVEL	STD	STANDARD
BR	BEGIN RADIUS	HYD	HYDRANT	STM	STORM SEWER
BV	BUTTERFLY VALVE	I	INVERT	TC	TOP OF CURB
CB	CATCH BASIN	K	CURVE COEFFICIENT	TE	TEMPORARY EASEMENT
C&G	CURB AND GUTTER	L	LENGTH	TEMP	TEMPORARY
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TNH	TOP NUT HYDRANT
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TP	TOP OF PIPE
CL	CENTER LINE	LT	LEFT	TYP	TYPICAL
CL.	CLASS	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
CLVT	CULVERT	MIN	MINIMUM	VERT	VERTICAL
CMP	CORRUGATED METAL PIPE	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
C.O.	CHANGE ORDER	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
COMM	COMMUNICATION	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
CON	CONCRETE	NTS	NOT TO SCALE	WM	WATERMAIN
CSP	CORRUGATED STEEL PIPE	NWL	NORMAL WATER LEVEL		
DIA	DIAMETER	OHW	ORDINARY HIGH WATER LEVEL		
DIP	DUCTILE IRON PIPE	PC	POINT OF CURVE	AC	ACRES
DWY	DRIVEWAY	PCC	PORTLAND CEMENT CONCRETE	CF	CUBIC FEET
E	EXTERNAL CURVE DISTANCE	PE	PERMANENT EASEMENT	CV	COMPACTED VOLUME
ELEC	ELECTRIC	PED	PEDESTRIAN, PEDESTAL	CY	CUBIC YARD
ELEV	ELEVATION	PERF	PERFORATED PIPE	EA	EACH
EOF	EMERGENCY OVERFLOW	PERM	PERMANENT	EV	EXCAVATED VOLUME
ER	END RADIUS	PI	POINT OF INTERSECTION	LB	POUND
ESMT	EASEMENT	PL	PROPERTY LINE	LF	LINEAR FEET
EX	EXISTING	PRC	POINT OF REVERSE CURVE	LS	LUMP SUM
FES	FLARED END SECTION	PT	POINT OF TANGENT	LV	LOOSE VOLUME
F-F	FACE TO FACE	PVC	POLYVINYL CHLORIDE PIPE	SF	SQUARE FEET
FF	FINISHED FLOOR	PVMT	PAVEMENT	SV	STOCKPILE VOLUME
F&I	FURNISH AND INSTALL	R	RADIUS	SY	SQUARE YARD
FM	FORCEMAIN	R/W	RIGHT-OF-WAY		
FO	FIBER OPTIC	RCP	REINFORCED CONCRETE PIPE		
F.O.	FIELD ORDER	RET	RETAINING		
GRAN	GRANULAR	RSC	RIGID STEEL CONDUIT		

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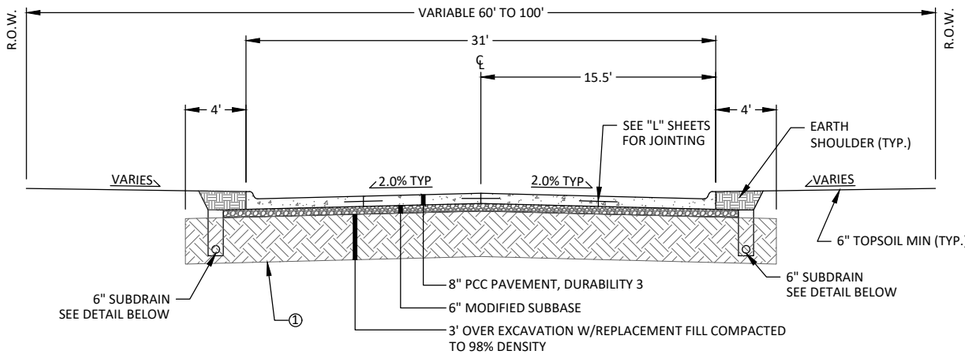
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER A.02	REVISED



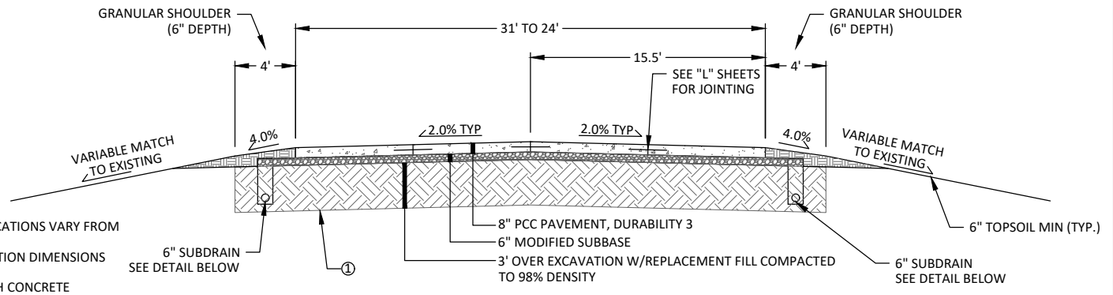
TYPICAL SECTION
STA. 0+50 - 5+75
NOT TO SCALE

GENERAL NOTES:

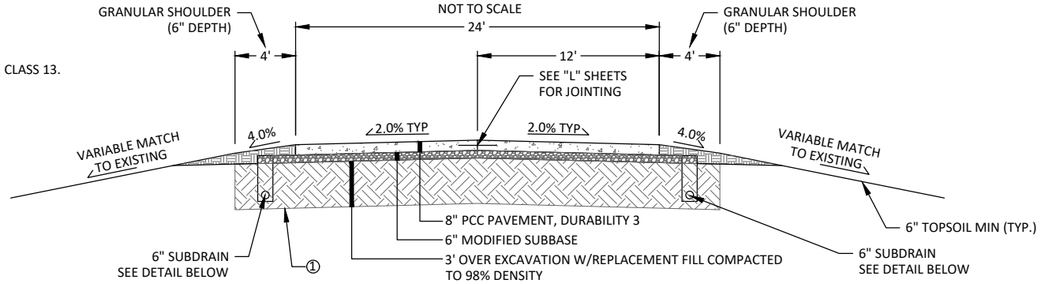
1. PAVEMENT SLOPES AT INTERSECTION LOCATIONS VARY FROM THOSE SHOWN ON THE TYPICAL SECTION
2. ANY VARIATIONS FROM THE TYPICAL SECTION DIMENSIONS ARE SHOWN ON THE PLAN DRAWINGS
3. GRADE ALL TOPSOIL MATERIAL TO MATCH CONCRETE SURFACES
4. SEE W SHEETS FOR VARIATIONS TO STANDARD CROSS SLOPE
5. 3' OVER EXCAVATION DEPTH SHALL EXTEND 4' OUTSIDE EDGE OF PAVING

TYPICAL SECTION CONSTRUCTION NOTES:

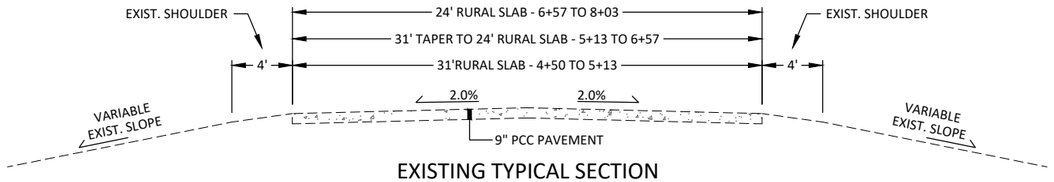
① GRADING ABOVE THIS LINE IS INCLUDED IN EXCAVATION, CLASS 13.



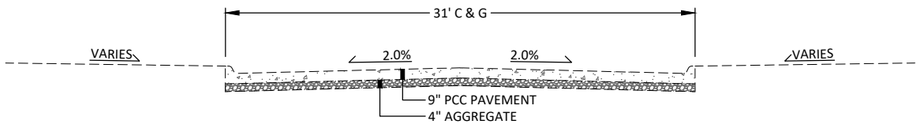
TYPICAL SECTION
STA. 5+75 - 6+62.5
NOT TO SCALE



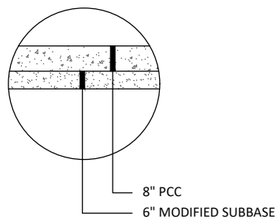
TYPICAL SECTION
STA. 6+62.5 - 7+66
NOT TO SCALE



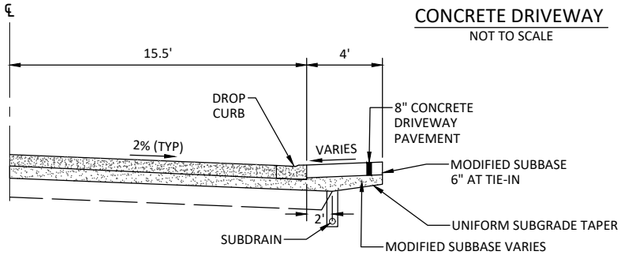
EXISTING TYPICAL SECTION
STA. 4+50 - 8+03
NOT TO SCALE



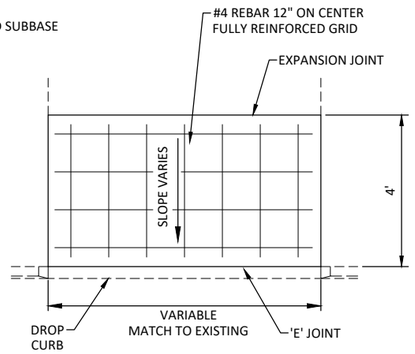
EXISTING TYPICAL SECTION
STA. 0+50 - 4+50
NOT TO SCALE



CONCRETE DRIVEWAY
NOT TO SCALE

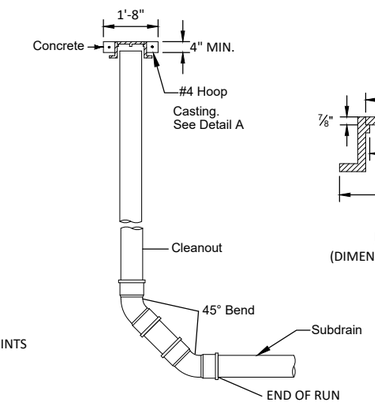


CONCRETE DRIVEWAY SECTION

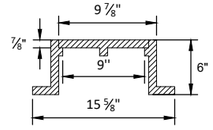


CONCRETE DRIVEWAY DETAIL
NOT TO SCALE

NOTE:
1. REBAR IS INCIDENTAL TO 8" CONCRETE PAVEMENT - DRIVEWAY BID ITEM.
2. ALL JOINTS SHALL BE SAW CUT. TOOL JOINTS WILL NOT BE ALLOWED.

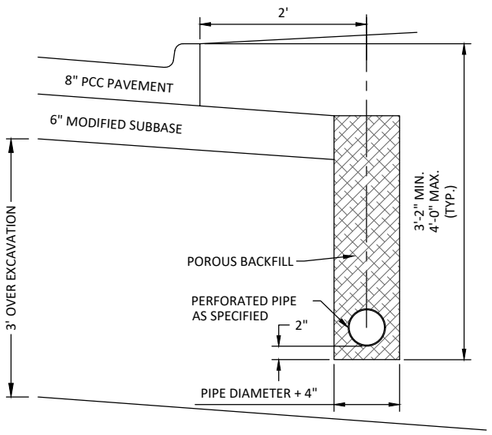


SUBDRAIN CLEANOUT
NOT TO SCALE



DETAIL A ① ②
(DIMENSIONS ARE NOMINAL)

SUBDRAIN NOTES:
1. LIGHT DUTY CASTING. LABEL LID WITH "STORM C.O.".
2. DESIGN IS INTENDED FOR USE IN CONJUNCTION WITH 8 INCH PVC RISER PIPE. OTHER SIZED CAPS MAY BE USED WITH SMALLER PIPE, AS APPROVED BY THE ENGINEER.



SUBSURFACE ROADWAY EDGE DRAIN
TYPE 7A INSTALLATION
NOT TO SCALE

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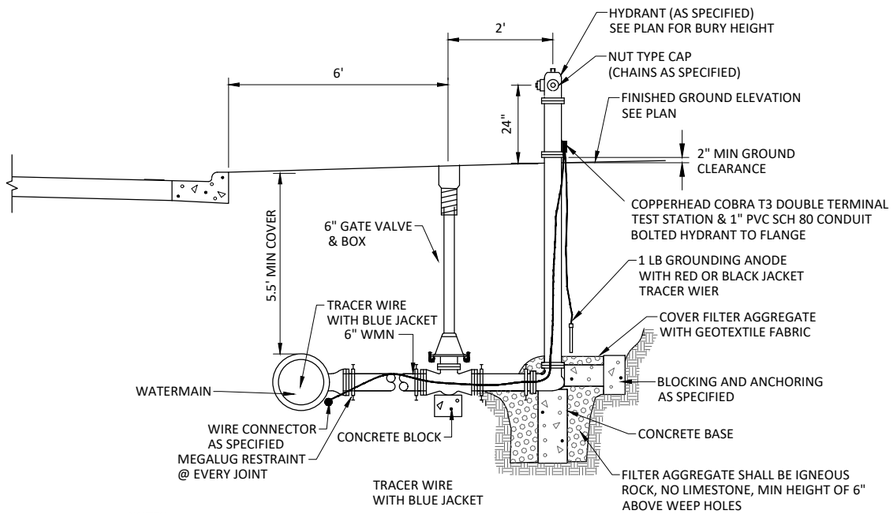
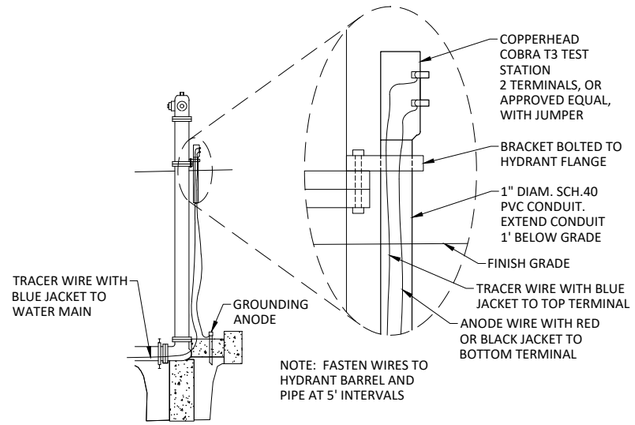
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER B.01	REVISED

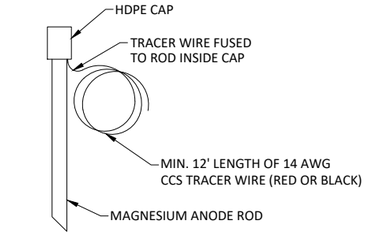


NOTES
1. HYDRANTS LOCATED WHERE THE GROUNDWATER TABLE IS ABOVE THE DRAIN OUTLET SHALL HAVE THE OUTLET DRAIN PLUGGED AND SHALL BE EQUIPPED WITH A TAG STATING "PUMP AFTER USE"
2. REFER TO TRACER WIRE DETAILS FOR ADDITIONAL INFORMATION.

HYDRANT INSTALLATION, MEGALUGS
NOT TO SCALE

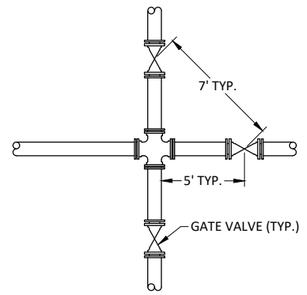


TRACER WIRE AT HYDRANT
NOT TO SCALE



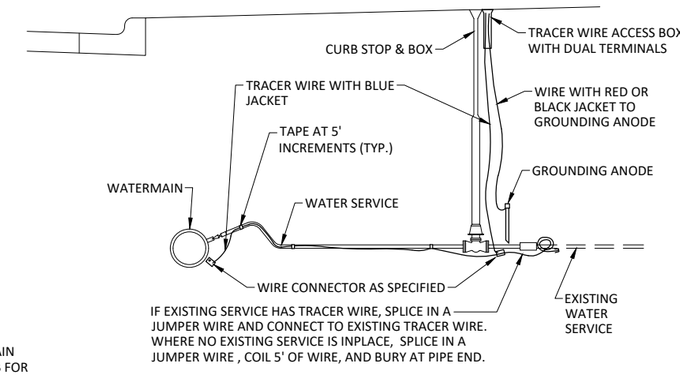
NOTE: MAGNESIUM ROD DIMENSIONS SHALL BE APPROX. 18" LONG BY 1.3" DIAM., AND APPROX. 1 LB IN WEIGHT

GROUNDING ANODE
NOT TO SCALE

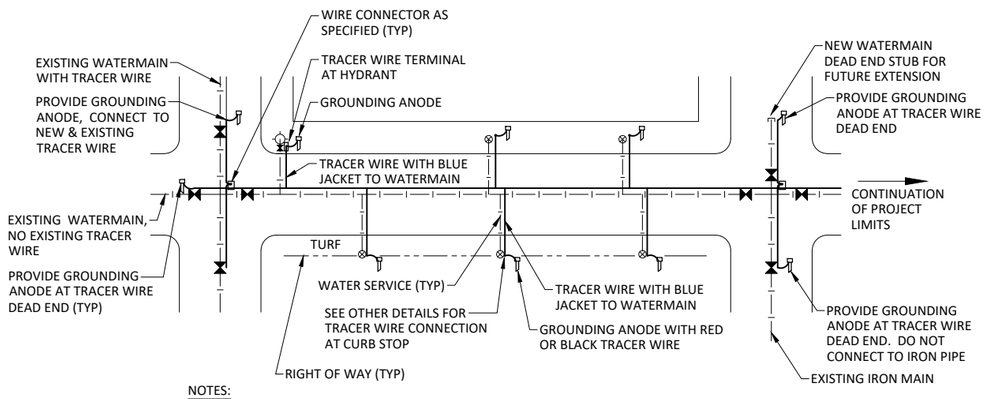


NOTES:
1. WHERE GATE VALVES ARE CLUSTERED TOGETHER, THEY SHALL BE SPACED ADEQUATELY TO ALLOW SELF PROPELLED COMPACTION EQUIPMENT TO PASS BETWEEN EACH VALVE BOX.
2. THE DIMENSIONS SHOWN HERE MAY BE ADJUSTED IN THE FIELD BASED ON THE SIZE OF THE CONTRACTOR'S COMPACTION EQUIPMENT.
3. THE USE OF HAND OPERATED MOTORIZED COMPACTION EQUIPMENT IS ALSO REQUIRED AROUND VALVE BOXES.

GATE VALVE SPACING
NOT TO SCALE

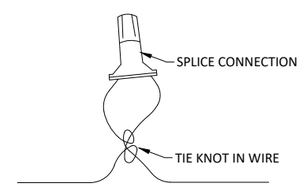


TRACER WIRE AT WATER SERVICE INSTALLATION RECONSTRUCTION
NOT TO SCALE



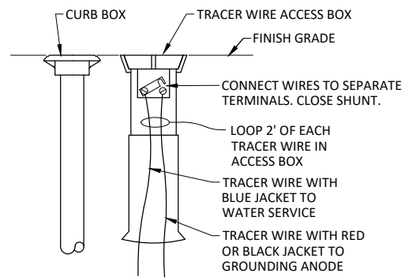
NOTES:
1. NUMBER OF SERVICES, CASTINGS AND TRACER WIRE ACCESS BOXES REQUIRED PER BLOCK VARIES. REFER TO MWM SHEETS.
2. CONNECTIONS TO EXISTING WATERMAINS AND TRACER WIRES VARY BY LOCATION.
3. DO NOT CAD WELD TRACER WIRE TO DUCTILE IRON PIPE.

TRACER WIRE SYSTEM SCHEMATIC - WATER DISTRIBUTION
NOT TO SCALE



WHERE IN-LINE SPLICES ARE REQUIRED ALONG PIPES, THE TRACER WIRE SHALL BE KNOTTED PRIOR TO INSERTION INTO THE SPLICE CONNECTION.

IN-LINE TRACER WIRE SPLICE
NOT TO SCALE



TRACER WIRE ACCESS BOX AT CURB BOX
NOT TO SCALE

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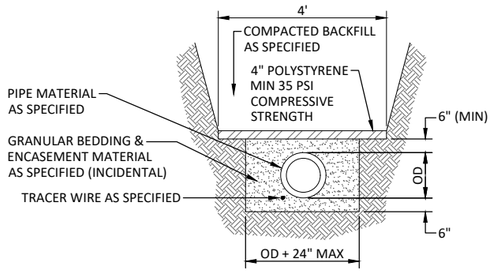
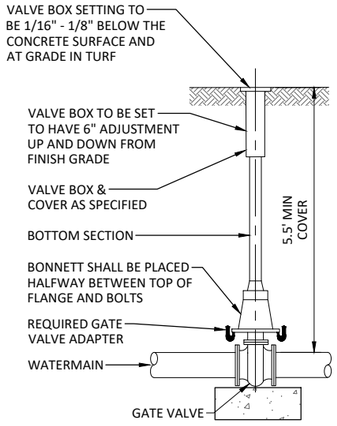
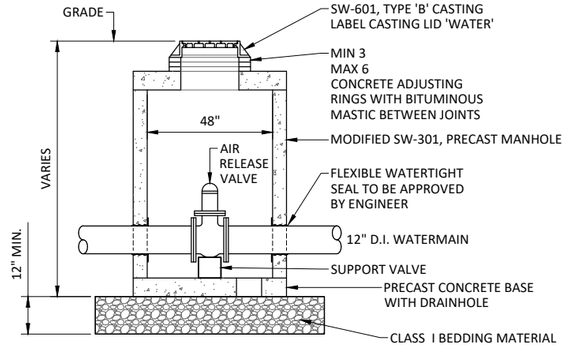


WATERMAIN INSULATION
NOT TO SCALE

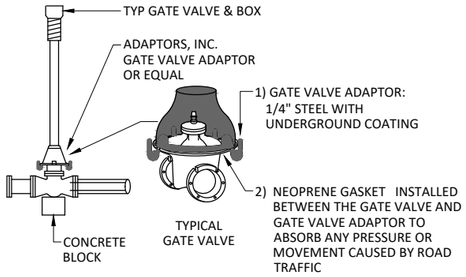
NOTES:
1. VALVE BOX SHALL BE CENTERED ON OPERATING NUTS, STRAIGHT, FREE FROM DEBRIS, AND ALL SECTIONS UNBROKEN
2. DEEP VALVES SHALL HAVE NUT EXTENSIONS INSTALLED TO ELEVATION TO ACCOMMODATE STANDARD 10' KEY; BOTTOM NUT SHALL BE BOLTED TO VALVE NUT AND ONLY ONE SECTION
3. COMPACTION WITH MECHANICAL TAMPER AROUND VALVE BOX SHALL BE PLACED AND COMPACTED WITH 1' MAXIMUM LIFTS TO ACHIEVE COMPACTION



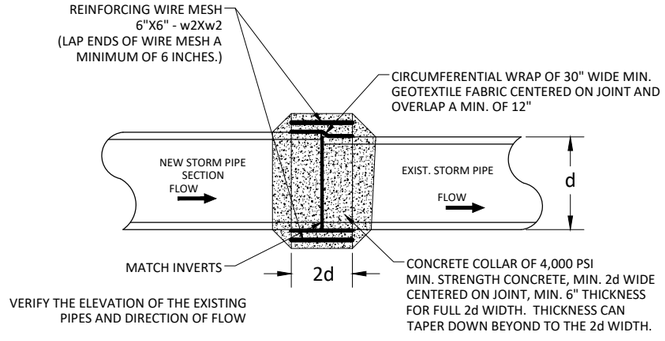
GATE VALVE BOX INSTALLATION
NOT TO SCALE



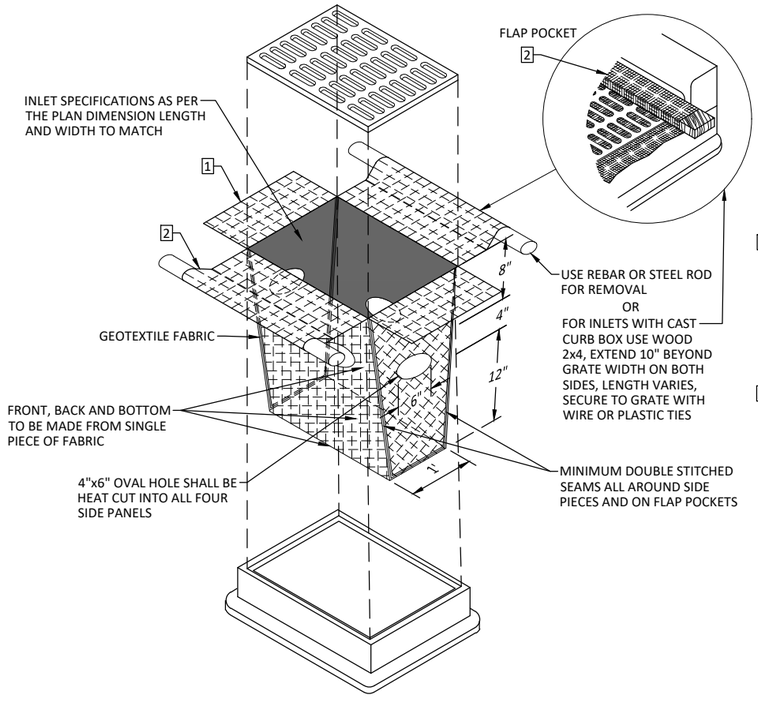
WATER MAIN MANHOLE W/AIR RELEASE VALVE
NOT TO SCALE



GATE VALVE ADAPTOR
NOT TO SCALE



STORM PIPE CONNECTION
NOT TO SCALE



NOTES:
1 INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL IN THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

FINISHED SIZE, INCLUDING POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

2 FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2x4.

INSTALLATION NOTES:
DO NOT INSTALL PROTECTION IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CLINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION DEVICE - DROP IN
NOT TO SCALE

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ESTIMATED PROJECT QUANTITIES

This Data Entry Sheet fills Tab 100-1A effective 07-15-97

Item No.	Item Code	Item	Unit	PARTICIPATE QTY	NON-PARTICIPATE QTY	Total	As Built Qty.
1	2102-2713070	EXCAVATION, CL 13, RDWY AND BORROW	CY	10940		10940	
2	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	3969		3969	
3	2107-0875000	COMPACTION W/MOISTURE AND DENSITY CONTROL	CY	4697		4697	
4	2115-0100000	MODIFIED SUBBASE	CY	846		846	
5	2121-7425010	GRANULAR SHOULDER, TYPE A	TON	152.9		152.9	
6	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	8.1		8.1	
7	2128-0000120	FURNISH AND APPLY GRANULAR SHOULDER MATERIAL	TON	305		305	
8	2301-1033080	STD/S-F PCC PAV'T, CL C, CL 3, 8"	SY	4354.2		4354.2	
9	2315-8275025	SURFACE, DRIVEWAY, CLASS 'A' CRUSHED STONE	TON	160		160	
10	2401-6745650	REMOVAL OF EXISTING STRUCTURE	LS	1		1	
11	2402-2720100	EXCAVATION, CL 20, ROADWAY PIPE CULVERT	CY	415.3		415.3	
12	2416-0100018	APRON, CONC, 18"	EACH	7		7	
13	2416-0100024	APRON, CONC, 24"	EACH	11		11	
14	2416-0100030	APRON, CONC, 30"	EACH	3		3	
15	2416-0100042	APRON, CONC, 42"	EACH	1		1	
16	2416-0102224	APRON, LOW CLEARANCE CONC, EQUIV DIA 24"	EACH	4		4	
17	2416-1170018	CULV, 3000D CONC ENT PIPE, 18"	LF	200		200	
18	2416-1170024	CULV, 3000D CONC ENT PIPE, 24"	LF	64		64	
19	2416-1170030	CULV, 3000D CONC ENT PIPE, 30"	LF	64		64	
20	2416-1202224	CULV,3000D LOW CLR ROADWAY PIPE, EQ DIA 24"	LF	112		112	
21	2416-1240024	CULV, 3000D CONC ROADWAY PIPE, 24"	LF	160		160	
22	2435-0130148	MANHOLE, SAN SEWER, SW-301, 48"	EACH	0	1	1	
23	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60"	EACH	1		1	
24	2435-0140184	MANHOLE, STORM SEWER, SW-401, 84"	EACH	1		1	
25	2435-0250500	INTAKE, SW-505	EACH	4		4	
26	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH	1		1	
27	2435-0700010	CONNECTION TO EXIST MANHOLE	EACH	3		3	
28	2502-8212206	SUBDRAIN, PERFORATED PLASTIC PIPE, 6"	LF	1982		1982	
29	2502-8221006	SUBDRAIN RISER, 6"	EACH	5		5	
30	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	9		9	
31	2503-0110018	STORM SEWER GRAVITY MAIN, TRENCHED, 18"	LF	83		83	
32	2503-0110024	STORM SEWER GRAVITY MAIN, TRENCHED, 24"	LF	413		413	
33	2503-0110030	STORM SEWER GRAVITY MAIN, TRENCHED, 30"	LF	99		99	
34	2503-0110036	STORM SEWER GRAVITY MAIN, TRENCHED, 36"	LF	32		32	
35	2503-0110042	STORM SEWER GRAVITY MAIN, TRENCHED, 42"	LF	80		80	
36	2503-0200036	REMOVE STORM SEWER PIPE LESS 36"	LF	100		100	
37	2504-0114008	SAN SEWER GRAVITY MAIN, TRENCHED, PVC, 8"	LF	0	62	62	
38	2504-0114024	SAN SEWER GRAVITY MAIN, TRENCHED, PVC, 24"	LF	0	175	175	
39	2504-0200406	SAN SEWER SERVICE STUB, PVC, 6"	LF	0	50	50	
40	2504-0240036	REMOVE SAN SEWER PIPE LESS 36"	LF	0	250	250	
41	2507-3250005	ENGINEERING FABRIC	SY	70		70	
42	2507-6800061	REVETMENT, CLASS E	TON	50		50	
43	2510-6745850	REMOVAL OF PAVEMENT	SY	3710.5		3710.5	
44	2515-2475008	DRIVEWAY, PCC, 8"	SY	243		243	
45	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	532.4		532.4	
46	2524-6765010	REMOVE AND REINSTALL SIGN	EACH	22		22	
47	2528-2518000	SAFETY CLOSURE	EACH	6		6	
48	2528-8445110	TRAFFIC CONTROL	LS	1		1	
49	2528-8445113	FLAGGER	EACH	30		30	
50	2529-5070110	PATCH, FULL-DEPTH FINISH, BY AREA	SY	471		471	
51	2529-5070111	PATCH,FULL-DEPTH FINISH,BY AREA(=>50 FT)	SY	668		668	
52	2529-5070120	PATCH, FULL-DEPTH FINISH, BY COUNT	EACH	22		22	
53	2529-8202000	RUMBLE STRIP PANEL (IN FULL DEPTH PATCH)	EACH	1		1	
54	2530-5070210	PATCH, PARTIAL-DEPTH PCC FINISH	SF	217		217	
55	2530-5070240	PARTIAL DEPTH PCC JNT AND CRACK REPAIR PATCH	LF	21		21	
56	2533-4980005	MOBILIZATION	LS	1		1	
57	2537-8900000	REMEDIATION OF PETRO CONTAMINATED SOIL	CY	0	1160	1160	
58	2537-8900100	SAMPLE AND TEST-PETRO CONTAMINATED (REMEDIATION)	EACH	0	4	4	
59	2549-0041060	BYPASS PUMPING, SEWAGE	LS	0	1	1	
60	2554-0112006	WATER MAIN, TRENCHED, DIP, 6"	LF	0	119	119	
61	2554-0112008	WATER MAIN, TRENCHED, DIP, 8"	LF	0	90	90	

ESTIMATED PROJECT QUANTITIES

This Data Entry Sheet fills Tab 100-1A effective 07-15-97

Item No.	Item Code	Item	Unit	PARTICIPATE QTY	NON-PARTICIPATE QTY	Total	As Built Qty.
62	2554-0112012	WATER MAIN, TRENCHED, DIP, 12"	LF	0	732	732	
63	2554-0203000	FITTINGS BY WEIGHT, DI	LB	0	2026	2026	
64	2554-0204120	WATER SERVICE STUB, COPPER, 2"	EACH	0	3	3	
65	2554-0205720	WATER SERVICE CURB STOP & BOX, COPPER, 2"	EACH	0	3	3	
66	2554-0207006	VALVE, GATE, DIP, 6"	EACH	0	3	3	
67	2554-0207012	VALVE, GATE, DIP, 12"	EACH	0	2	2	
68	2554-0208006	TAPPING VALVE ASSEMBLY, 6"	EACH	0	4	4	
69	2554-0208012	TAPPING VALVE ASSEMBLY, 12"	EACH	0	1	1	
70	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201	EACH	0	2	2	
71	2554-0211006	FLUSHING DEVICE, TEMPORARY, (BLOWOFF), 6"	EACH	0	3	3	
72	2554-0214000	FIRE HYDRANT ADJUSTMENT	EACH	0	5	5	
73	2555-0000010	DELIVER AND STOCKPILE SALVAGED MATERIAL	LS	0	1	1	
74	2599-9999005	CONNECT TO EXISTING SANITARY SEWER	EACH	0	5	5	
75	2599-9999005	CONNECT TO EXISTING STORM SEWER	EACH	6		6	
76	2599-9999005	CONNECT TO EXISTING WATER MAIN	EACH	0	7	7	
77	2599-9999005	MANHOLE, WATER MAIN AIR RELEASE	EACH	0	1	1	
78	2599-9999005	SALVAGE FIRE HYDRANT	EACH	0	2	2	
79	2599-9999005	TILE REPAIR <12"	EACH	5		5	
80	2599-9999005	TILE REPAIR 12"-24"	EACH	5		5	
81	2599-9999007	EXPLORATORY EXCAVATION, GENERAL	HOUR	16	4	20	
82	2599-9999007	EXPLORATORY EXCAVATION, VAC TRUCK	HOUR	16	4	20	
83	2599-9999009	WATER MAIN REMOVAL OR ABANDONMENT	LF	0	917	917	
84	2599-9999010	TEMPORARY WATER	LS	0	1	1	
85	2599-9999018	POLYSTYRENE INSULATION, 4"	SY	0	8	8	
86	2601-2636043	SEED AND FERTILIZE (RURAL)	ACRE	1.72		1.72	
87	2601-2636044	SEED AND FERTILIZE (URBAN)	ACRE	1.56		1.56	
88	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR	SQ	1015		1015	
89	2601-2640350	SPECIAL DITCH CONTROL,WOOD EXCELSIOR MAT	SQ	384		384	
90	2602-0000020	SILT FENCE	LF	1842		1842	
91	2602-0000030	SILT FENCE-DITCH CHECKS	LF	565		565	
92	2602-0000071	REMOVAL OF SILT FENCE/SILT FENCE-DITCH CHECK	LF	2407		2407	
93	2602-0000101	MAINT OF SILT FENCE/SILT FENCE-DITCH CHECK	LF	2407		2407	
94	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	LF	190		190	
95	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9"	LF	500		500	
96	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG	EACH	8		8	
97	2602-0000540	MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	8		8	
98	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	8		8	
99	2602-0010010	MOBILIZATION, EROSION CONTROL	EACH	8		8	

NOTE:
CONSTRUCTION SURVEY TO BE PERFORMED BY THE CONTRACTING AUTHORITY.

PROJECT DESCRIPTION

This Data Entry Sheet fills Tab 100-1D effective 10-18-05

THIS PROJECT INVOLVES THE RECONSTRUCTION OF E. RICHLAND STREET IN STORM LAKE, IOWA FROM INDUSTRY STREET EAST TO EXPANSION BOULEVARD. CONSTRUCTION PROPOSES TO REMOVE AND REPLACE EXISTING PCC PAVEMENT WITH NEW PCC PAVEMENT. UNDERGROUND IMPROVEMENTS TO FULLY REPLACE THE EXISTING WATER, SANITARY SEWER AND IMPROVE STORM SEWER WITH INTAKES AND MANHOLES FOR ADEQUATE DRAINAGE ALONG THIS CORRIDOR. IN ADDITION THIS PROJECT INCLUDES PCC PAVEMENT REPAIR OF E. RICHLAND STREET IN STORM LAKE, IOWA FROM EXPANSION BOULEVARD EAST TO RADIO ROAD. ROADWAY DITCHES WILL BE TRUED TO PROVIDE ADEQUATE DRAINAGE ALONG THIS CORRIDOR.

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ESTIMATE REFERENCE INFORMATION

This Data Entry Sheet fills Tab 100-4A effective 10-29-02

Item No.	Item Code	Description
1	2102-2713070	EXCAVATION, CL 13, RDWY AND BORROW
		ALL SUITABLE EXCESS EXCAVATED MATERIAL WILL REMAIN THE PROPERTY OF THE OWNER AND WILL BE LOADED, HAULED, AND PLACED TO THE EXCESS MATERIAL AND STOCKPILE SITE. CUT OF 10,940 CY AND A FILL OF 6,812 CY WITH A 1.35% FILL FACTOR, ASSUMED HAUL OFF OF 7,307 CY. APPROVED BORROW MATERIAL OF 6,341 CY WITH A 1.35% FILL FACTOR IS INCLUDED IN THIS QUANTITY AND IS THE REPLACEMENT MATERIAL FOR THE 3 FOOT OVER EXCAVATION UNDER E. RICHLAND STREET PAVING RE-CONSTRUCTION. SEE 'B' SHEETS FOR TYPICAL ROADWAY SECTIONS. THIS IS FULL COMPENSATION FOR THE EXCAVATION REQUIRED FOR THE RE-CONSTRUCTION OF E. RICHLAND STREET PAVING, BACKFILLING EARTH BEHIND EDGE OF PAVING, OPEN DITCH GRADING AND RE-SHAPING OF ROADWAY DITCHES AND SLOPES.
2	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD
		REMOVE AND SALVAGE A MINIMUM OF 9" TOPSOIL MATERIAL, HAUL TO DESIGNATED EXCESS MATERIAL AND STOCKPILE SITE. SPREAD TOPSOIL TO A MINIMUM OF 6" WHERE EVER SEEDING IS TO BE PLACED ACCORDING TO THE PLANS. ALL EXCESS TOPSOIL MATERIAL WILL REMAIN THE PROPERTY OF THE OWNER AND REMAIN AT THE EXCESS MATERIALS SITE.
3	2107-0875000	COMPACTION W/MOISTURE AND DENSITY CONTROL
		THIS QUANTITY IS THE APPROVED BORROW MATERIAL (NOT INCLUDING A FILL FACTOR), FOR THE 3 FOOT OVER EXCAVATION UNDER E. RICHLAND STREET PAVING RE-CONSTRUCTION. SEE 'B' SHEETS FOR TYPICAL ROADWAY SECTIONS.
4	2115-0100000	MODIFIED SUBBASE
		SEE TABULATIONS ON SHEETS C.06 (PCC PAVEMENT) AND C.12 (PAVED DRIVES).
5	2121-7425010	GRANULAR SHOULDER, TYPE A
		THIS IS MATERIAL TO BE USED ON E. RICHLAND STREET BETWEEN STATION 5+75 AND STATION 9+77.52. SURFACE PREPARATION SHALL BE SHOULDER CONSTRUCTION METHOD. SEE TABULATION ON SHEET C.11 (SHOULDERS).
6	2123-7450000	SHOULDER CONSTRUCTION, EARTH
		SEE TABULATION SHEET NO. C.11
7	2128-0000120	FURNISH AND APPLY GRANULAR SHOULDER MATERIAL
		THIS IS FOR SHOULDERS ON E. RICHLAND STREET BETWEEN EXPANSION BLVD. AND RADIO ROAD TO REPAIR EXISTING SHOULDERS.
8	2301-1033080	STD/S-F PCC PAV'T, CL C, CL 3, 8"
		CERTIFIED PLANT INSPECTION WILL BE REQUIRED DURING ALL PAVING OPERATIONS. GGBFS (SLAG) IS NOT PERMITTED FOR ANY WORK ON THIS PROJECT. CORING REQUIREMENTS FOR THICKNESS AND ASSOCIATED PAYMENT SCHEDULE, STANDARD SPECIFICATION SECTIONS 2301.01.A.2 - ITEMS A AND B AND SECTION 2301.05, A, 2 - TABLE 2301.05-1 SHALL NOT APPLY. ITEMS SHALL INCLUDE QUANTITIES FOR INTEGRAL CURB AND GUTTER SECTION. PCC COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 4,000 PSI AT 28 DAYS. SEE TABULATION ON SHEET C.06.
9	2315-8275025	SURFACE, DRIVEWAY, CLASS 'A' CRUSHED STONE
		ITEM SHALL BE USED TO BRING EXISTING GRAVEL DRIVEWAYS AND STREETS UP TO THE NEW PCC PAVEMENT.
10	2401-6745650	REMOVAL OF EXISTING STRUCTURE
		SEE TABULATION ON SHEET NO. C.10
11	2402-2720100	EXCAVATION, CL 20, ROADWAY PIPE CULVERT
		SEE TABULATION ON SHEET C.07
12	2416-0100018	APRON, CONC, 18"
		SEE TABULATIONS ON SHEET C.08 (STORM SEWER STRUCTURES).
13	2416-0100024	APRON, CONC, 24"
		SEE TABULATIONS ON SHEET C.08 (STORM SEWER STRUCTURES).
14	2416-0100030	APRON, CONC, 30"
		SEE TABULATIONS ON SHEET C.08 (STORM SEWER STRUCTURES).
15	2416-0100042	APRON, CONC, 42"
		SEE TABULATIONS ON SHEET C.08 (STORM SEWER STRUCTURES).
16	2416-0102224	APRON, LOW CLEARANCE CONC, EQUIV DIA 24"
		SEE TABULATIONS ON SHEET C.08 (STORM SEWER STRUCTURES).
17	2416-1170018	CULV, 3000D CONC ENT PIPE, 18"
		BID QUANTITY LENGTH DOES NOT INCLUDE APRON LENGTHS. SEE TABULATIONS ON SHEET C.08 (STORM SEWER PIPE).
18	2416-1170024	CULV, 3000D CONC ENT PIPE, 24"
		BID QUANTITY LENGTH DOES NOT INCLUDE APRON LENGTHS. SEE TABULATIONS ON SHEET C.08 (STORM SEWER PIPE).
19	2416-1170030	CULV, 3000D CONC ENT PIPE, 30"
		BID QUANTITY LENGTH DOES NOT INCLUDE APRON LENGTHS. SEE TABULATIONS ON SHEET C.08 (STORM SEWER PIPE).
20	2416-1202224	CULV,3000D LOW CLR ROADWAY PIPE, EQ DIA 24"
		BID QUANTITY LENGTH DOES NOT INCLUDE APRON LENGTHS. SEE TABULATIONS ON SHEET C.08 (STORM SEWER PIPE).
21	2416-1240024	CULV, 3000D CONC ROADWAY PIPE, 24"
		BID QUANTITY LENGTH DOES NOT INCLUDE APRON LENGTHS. SEE TABULATIONS ON SHEET C.08 (STORM SEWER PIPE).
22	2435-0130148	MANHOLE, SAN SEWER, SW-301, 48"
		REFER TO 'MSA' SHEET FOR SANITARY SEWER MANHOLE LOCATIONS AND ELEVATIONS. MANHOLE SHALL INCLUDE INTEGRAL BASE SECTION WITH CONCENTRIC PRECAST TOP. IN LIEU OF JOINT SEALANT, ALL JOINTS SHALL BE RUBBER GASKETED TONGUE AND GROOVE. ALL PIPE OPENINGS SHALL HAVE INTEGRAL CAST WATER TIGHT SEAL. MANHOLE CASTING SHALL BE SW-601, TYPE 'B' CASTING AND READ "SANITARY SEWER," FURNISHED AND INSTALLED AS PART OF THIS PAY ITEM. PROVIDE I&I BARRIER CHIMNEY SEAL BY STRIKE PRODUCTS OR APPROVED EQUAL, FURNISHED AND INSTALLED AS PART OF THIS PAY ITEM. ANY ADJUSTING RINGS SHALL BE CONCRETE. SEE TABULATION ON SHEET C0.12.
23	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60"
		REFER TO 'M' SHEETS FOR STORM SEWER MANHOLE LOCATIONS AND ELEVATIONS. MANHOLE CASTING SHALL BE SW-602, TYPE 'F' CASTING AND READ "STORM SEWER" FURNISH AND INSTALLED AS PART OF THIS PAY ITEM. ANY ADJUSTING RINGS SHALL BE CONCRETE. SEE TABULATION ON SHEET C.08.

ESTIMATE REFERENCE INFORMATION

This Data Entry Sheet fills Tab 100-4A effective 10-29-02

Item No.	Item Code	Description
24	2435-0140184	MANHOLE, STORM SEWER, SW-401, 84"
		REFER TO 'M' SHEETS FOR STORM SEWER MANHOLE LOCATIONS AND ELEVATIONS. MANHOLE CASTING SHALL BE SW-602, TYPE 'F' CASTING AND READ "STORM SEWER" FURNISH AND INSTALLED AS PART OF THIS PAY ITEM. ANY ADJUSTING RINGS SHALL BE CONCRETE. SEE TABULATION ON SHEET C.08.
25	2435-0250500	INTAKE, SW-505
		REFER TO 'M' SHEETS FOR STORM SEWER INTAKE LOCATIONS AND ELEVATIONS. MANHOLE CASTING SHALL BE SW-603, TYPE 'R' CASTINGS, FURNISH AND INSTALLED AS PART OF THIS PAY ITEM. ANY ADJUSTING RINGS SHALL BE CONCRETE. SEE TABULATION ON SHEET C.08.
26	2435-0600010	MANHOLE ADJUSTMENT, MINOR
		THIS IS FULL COMPENSATION FOR MATERIALS, LABOR AND EQUIPMENT TO ADJUST THE SANITARY MANHOLE CASTING AT THE INTERSECTION OF RAY STREET AND E. RICHLAND STREET. MANHOLE CASTING SHALL BE SW-601, TYPE 'B' CASTING AND READ "SANITARY SEWER" FURNISH AND INSTALLED AS PART OF THIS PAY ITEM. PROVIDE I&I BARRIER CHIMNEY SEAL BY STRIKE PRODUCTS OR APPROVED EQUAL, FURNISHED AND INSTALLED AS PART OF THIS PAY ITEM. SEE 'MSA' SHEET AND TABULATION ON SHEET C.09 ' ADJUSTMENT OF FIXTURES'.
27	2435-0700010	CONNECTION TO EXIST MANHOLE
		REFER TO SHEET M.04 FOR LOCATIONS AND ELEVATIONS OF EXISTING STORM MANHOLES 1 AND 2 SHOWING STORM SEWER PIPE CONNECTIONS. THIS ITEM IS FULL COMPENSATION FOR ALL THAT WORK NECESSARY FOR A WATER TIGHT CONNECTION OF THE NEW STORM SEWER PIPES TO EXISTING MANHOLE.
28	2502-8212206	SUBDRAIN, PERFORATED PLASTIC PIPE, 6"
		PIPE MATERIAL SHALL BE 6" PERFORATED HDPE, SDR 35 PVC, OR SCHEDULE 40 PVC. POROUS BACKFILL SHALL MEET IOWA DOT GRADATION NUMBER 5. ANY CAPS CALLED OUT SHALL BE GLUE ON TYPE AND BE CONSIDERED INCIDENTAL TO THIS ITEM. SEE TABULATION ON SHEET C.09.
29	2502-8221006	SUBDRAIN RISER, 6"
		METHOD OF MEASUREMENT SHALL BE EACH SUBDRAIN CLEANOUT COMPLETED AS PER DETAIL WILL BE COUNTED. THIS WILL BE FULL COMPENSATION FOR ALL EQUIPMENT, LABOR, PIPE, BENDS, CASTING WITH CONCRETE COLLAR AND POROUS BACKFILL FOR THE SUBDRAIN CLEANOUT FROM END OF RUN AS DETAILED ON SHEET B.01. POROUS BACKFILL SHALL MEET IOWA DOT GRADATION NUMBER 5. SEE TABULATION ON SHEET C.09.
30	2502-8221303	SUBDRAIN OUTLET, DR-303
		THIS ITEM IS FOR THE SUBDRAIN CONNECTIONS TO INTAKES 1, 2, 3, 4, AND EXISTING STORM MANHOLE, REFER TO SHEET M.06 AND M.07. THIS ITEM IS FULL COMPENSATION FOR ALL THAT WORK NECESSARY FOR A WATER TIGHT CONNECTION OF THE SUBDRAIN CONNECTIONS TO INTAKES. SEE DR-303, INTAKE OUTLET DETAIL. PIPE MATERIAL SHALL BE 6" SOLID WALL PVC. SEE TABULATION ON SHEET C.09.
31	2503-0110018	STORM SEWER GRAVITY MAIN, TRENCHED, 18"
		JOINTS SHALL MEET THE REQUIREMENTS OF ASTM C-443 GASKETS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT SW-102, CLASS R-2. BEDDING MATERIAL SHALL BE CLASS I. SEE TABULATION ON SHEET C.08.
32	2503-0110024	STORM SEWER GRAVITY MAIN, TRENCHED, 24"
		BID QUANTITY LENGTH DOES NOT INCLUDE APRON LENGTHS. JOINTS SHALL MEET THE REQUIREMENTS OF ASTM C-443 GASKETS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT SW-102, CLASS R-2. BEDDING MATERIAL SHALL BE CLASS I. SEE TABULATION ON SHEET C.08.
33	2503-0110030	STORM SEWER GRAVITY MAIN, TRENCHED, 30"
		JOINTS SHALL MEET THE REQUIREMENTS OF ASTM C-443 GASKETS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT SW-102, CLASS R-2. BEDDING MATERIAL SHALL BE CLASS I. SEE TABULATION ON SHEET C.08.
34	2503-0110036	STORM SEWER GRAVITY MAIN, TRENCHED, 36"
		JOINTS SHALL MEET THE REQUIREMENTS OF ASTM C-443 GASKETS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT SW-102, CLASS R-2. BEDDING MATERIAL SHALL BE CLASS I. SEE TABULATION ON SHEET C.08.
35	2503-0110042	STORM SEWER GRAVITY MAIN, TRENCHED, 42"
		BID QUANTITY LENGTH DOES NOT INCLUDE APRON LENGTHS. JOINTS SHALL MEET THE REQUIREMENTS OF ASTM C-443 GASKETS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT SW-102, CLASS R-2. BEDDING MATERIAL SHALL BE CLASS I. SEE TABULATION ON SHEET C.08.
36	2503-0200036	REMOVE STORM SEWER PIPE LESS 36"
		REFER TO 'R' SHEETS FOR LOCATIONS OF STORM SEWER REMOVAL LOCATIONS. ANY PIPES TO REMAIN IN PLACE AT THE EXTENTS OF THE PROJECT AND NOT CONNECTED TO THE STORM SEWER SYSTEM SHALL HAVE A CONCRETE PLUG. SEE TABULATION ON SHEET C.10.
37	2504-0114008	SAN SEWER GRAVITY MAIN, TRENCHED, PVC, 8"
		REFER TO 'MSA' SHEETS FOR LOCATIONS AND ELEVATIONS OF SANITARY SEWER. CONNECTIONS TO EXISTING SHALL BE MADE USING NO SHEAR RUBBER BOOT CONNECTORS WITH STAINLESS STEEL SHEAR BANDS AND STRAPS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT STANDARD PLATE SW-103, CLASS F-3. BEDDING MATERIAL TO BE CLASS I. SEE TABULATION ON SHEET C.12.
38	2504-0114024	SAN SEWER GRAVITY MAIN, TRENCHED, PVC, 24"
		REFER TO 'MSA' SHEETS FOR LOCATIONS AND ELEVATIONS OF SANITARY SEWER. CONNECTIONS TO EXISTING SHALL BE MADE USING NO SHEAR RUBBER BOOT CONNECTORS WITH STAINLESS STEEL SHEAR BANDS AND STRAPS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT STANDARD PLATE SW-103, CLASS F-3. BEDDING MATERIAL TO BE CLASS I. SEE TABULATION ON SHEET C.12.
39	2504-0200406	SAN SEWER SERVICE STUB, PVC, 6"
		REFER TO 'MSA' SHEETS FOR LOCATIONS AND ELEVATIONS OF SANITARY SEWER 6" SERVICES. CONNECTIONS TO EXISTING SHALL BE MADE USING NO SHEAR RUBBER BOOT CONNECTORS WITH STAINLESS STEEL SHEAR BANDS AND STRAPS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT STANDARD PLATE SW-103, CLASS F-3. BEDDING MATERIAL TO BE CLASS I. SEE TABULATION ON SHEET C.12.
40	2504-0240036	REMOVE SAN SEWER PIPE LESS 36"
		SEE TABULATION ON SHEET C.10.
41	2507-3250005	ENGINEERING FABRIC
		THIS IS FOR PLACEMENT UNDER THE CLASS 'E' REVETMENT
42	2507-6800061	REVETMENT, CLASS E
		REFER TO SHEET RC.05 FOR LOCATION OF THIS ITEM AT THE OUTLET OF 42" STORM SEWER. EXCAVATE FOR PLACEMENT 18" IN DEPTH AND WASTE MATERIAL, PLACE ENGINEERING FABRIC BEFORE REVEMENT AND THIS SHALL BE FULL COMPENSATION FOR PAYMENT UNDER THIS ITEM. PLACE CLASS 'E' REVETMENT MEETING THE REQUIREMENTS OF IOWA DOT SECTION 4130, REVETMENT GRADATION CLASS 'E'.

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ESTIMATE REFERENCE INFORMATION

This Data Entry Sheet fills Tab 100-4A effective 10-29-02

Item No.	Item Code	Description
43	2510-6745850	REMOVAL OF PAVEMENT
		EXISTING PAVEMENT THICKNESS VARIES BETWEEN 6 AND 9 INCHES OF PCC PAVEMENT. ALL REMOVALS TO BE MARKED AND MEASURED BY ENGINEER. FULL DEPTH SAWCUTS ALONG THE REMOVAL LIMITS ARE INCIDENTAL TO THIS ITEM. ADDITIONAL REMOVAL DUE TO DAMAGE FROM CONSTRUCTION TO BE DETERMINED BY ENGINEER. PAYMENT SHALL BE MADE FOR THE AREA OF PAVEMENT REMOVED REGARDLESS OF ACTUAL THICKNESS. CONTRACTOR HAS THE OPTION TO HAUL PAVEMENT MATERIAL TO EXCESS MATERIAL SITE AS A TEMPORARY CRUSHING LOCATION. IF NOT CRUSHING, THEN MATERIAL SHOULD BE HAULED TO A DISPOSAL SITE OBTAINED BY THE CONTRACTOR. REFER TO 'R' SHEETS FOR REMOVAL LOCATIONS AND TABULATION ON SHEET C.10.
44	2515-2475008	DRIVEWAY, PCC, 8"
		REFER TO 'D' SHEETS FOR DRIVEWAY LOCATIONS. CERTIFIED PLANT INSPECTION WILL BE REQUIRED DURING ALL PAVING OPERATIONS. GGBFS (SLAG) IS NOT PERMITTED FOR ANY WORK ON THIS PROJECT. PCC COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 4,000 PSI AT 28 DAYS. SEE TABULATION ON SHEET C.12.
45	2515-6745600	REMOVAL OF PAVED DRIVEWAY
		ALL REMOVALS TO MARKED AND MEASURED BY ENGINEER. ADDITIONAL REMOVAL TO BE DETERMINED BY ENGINEER. PAYMENT SHALL BE MADE FOR THE AREA OF PAVEMENT REMOVED. PAVEMENT THICKNESS ASSUMED TO BE 6 INCHES. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL MATERIALS AT AN OFFSITE WASTE AREA. REFER TO 'R' SHEETS FOR REMOVAL LOCATIONS AND TABULATION ON SHEET C.10.
46	2524-6765010	REMOVE AND REINSTALL SIGN
		CONTRACTOR SHALL REMOVE, SALVAGE, AND REINSTALL EXISTING SIGNS. SIGNS AND MATERIALS SHALL BE DELIVERED, STORED, AND RETRIEVED FROM THE CITY OF STORM LAKE STREET DEPARTMENT LOCATED AT 433 VILAS ROAD, STORM LAKE. MEASUREMENT WILL BE MADE FOR EACH SIGN SALVAGED AND REINSTALLED. PAYMENT WILL BE MADE UPON REINSTALLATION. SEE TABULATION ON SHEET C.11.
47	2528-2518000	SAFETY CLOSURE
		SEE "J" SHEETS FOR LOCATIONS. SEE TABULATION ON SHEET J.03.
48	2528-8445110	TRAFFIC CONTROL
		REFER TO 'J' SHEETS FOR DETOUR, TRAFFIC CONTROL AND STAGING. ALL TRAFFIC CONTROL DEVICES SHALL MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130. ANY TRAFFIC CONTROL SIGN TO REMAIN IN PLACE LONGER THAN 3 CALENDAR DAYS SHALL BE POST MOUNTED WITH AN IOWA DOT APPROVED SIGN POST. CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING, MAINTAINING, AND REMOVING THE DETOUR AS MARKED OUT IN THIS PLAN AND SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.
49	2528-8445113	FLAGGER
		REFER TO 'J' SHEETS FOR DETOUR, TRAFFIC CONTROL AND STAGING.
50	2529-5070110	PATCH, FULL-DEPTH FINISH, BY AREA
		EXISTING PAVEMENT IS PCC AND ESTIMATED THICKNESS IS BETWEEN 7 TO 9 INCHES. REFER TO 'D' SHEETS FOR LOCATIONS, 'J' SHEETS FOR TRAFFIC CONTROL AND TABULATION SHEET C.07.
51	2529-5070111	PATCH,FULL-DEPTH FINISH,BY AREA(=>50 FT)
		EXISTING PAVEMENT IS PCC AND ESTIMATED THICKNESS IS BETWEEN 7 TO 9 INCHES. REFER TO 'D' SHEETS FOR LOCATIONS, 'J' SHEETS FOR TRAFFIC CONTROL AND TABULATION SHEET C.07.
52	2529-5070120	PATCH, FULL-DEPTH FINISH, BY COUNT
		REFER TO 'D' SHEETS FOR LOCATIONS, 'J' SHEETS FOR TRAFFIC CONTROL AND TABULATION SHEET C.07.
53	2529-8202000	RUMBLE STRIP PANEL (IN FULL DEPTH PATCH)
		REFER TO SHEET D.03 FOR LOCATION.
54	2530-5070210	PATCH, PARTIAL-DEPTH PCC FINISH
		REFER TO 'D' SHEETS FOR LOCATIONS, 'J' SHEETS FOR TRAFFIC CONTROL AND TABULATION SHEET C.07.
55	2530-5070240	PARTIAL DEPTH PCC JNT AND CRACK REPAIR PATCH
		REFER TO 'D' SHEETS FOR LOCATIONS, 'J' SHEETS FOR TRAFFIC CONTROL AND TABULATION SHEET C.07.
56	2533-4980005	MOBILIZATION
		THIS ITEM SHALL ALSO INCLUDE THE COSTS FOR ANY STAGED CONSTRUCTION, AND EQUIPMENT SET UP AND STOCKPILE/DISPOSAL SITE PREPARATION AND CLEANUP TO COMPLETE WORK. NO CHANGE IN THE CONTRACT PRICE WILL BE MADE FOR ANY CHANGE IN STAGING OR COMBINATION THEREOF.
57	2537-8900000	REMEDIATION OF PETRO CONTAMINATED SOIL
		THE LOCATION IS ASSUMED TO BE ON E. RICHLAND STREET BETWEEN STA. 0+50 AND STA. 7+00. THIS SHALL BE FULL COMPENSATION FOR REMOVAL, TRANSPORT AND COVERING OF CONTAMINATED MATERIAL AT A TEMPORARY STOCKPILE SITE, REPRESENTATIVE TESTING OF THE MATERIAL, AND TRANSPORTING APPROVED MATERIAL TO A SOLID WASTE LANDFILL SITE (CARROLL COUNTY SOLID WASTE MANAGEMENT, CARROLL, IA) OR TO TRANSPORT, SPREAD, AND TURN CONTAMINATED SOIL AT REMEDIATION AREAS OBTAINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. REFER TO IOWA DOT SECTION 2537.
58	2537-8900100	SAMPLE AND TEST-PETRO CONTAMINATED (REMEDIATION)
		THE LOCATION IS ASSUMED TO BE ON E. RICHLAND STREET BETWEEN STA. 0+50 AND STA. 7+00. SAMPLING AND ENVIRONMENTAL SITE WORK SHALL BE SUPERVISED BY A GROUNDWATER PROFESSIONAL CERTIFIED BY THE IOWA DNR IN ACCORDANCE WITH 567 IAC, 134 AND ANAYLSIS OF SAMPLES IS PERFORMED BY A LABORATORY CERTIFIED BY IOWA DNR PURSANT TO 567 IAC, 83. TEST RESULTS SHALL BE PROVIDED TO THE SOLID WASTE MANAGEMENT FACILITY AND THE ENGINEER FOR APPROVAL OF THE MATERIAL PRIOR TO DELIVERY IF TAKEN TO A SOLID WASTE FACILITY.
59	2549-0041060	BYPASS PUMPING, SEWAGE
		THIS SHALL BE FULL COMPENSATION FOR MATERIALS, LABOR AND EQUIPMENT REQUIRED TO MAINTAIN SANITARY SEWER BYPASS FLOWS DURING THE REPLACEMENT OF THE EXISTING SANITARY SEWER MAIN AND SERVICES ON EXPANSION BLVD. COORDINATE WITH THE CITY OF STORM LAKE, WASTE WATER DEPARTMENT.

ESTIMATE REFERENCE INFORMATION

This Data Entry Sheet fills Tab 100-4A effective 10-29-02

Item No.	Item Code	Description
60	2554-0112006	WATER MAIN, TRENCHED, DIP, 6"
		PIPE BEDDING CLASS SHALL CONFORM WITH IOWA DOT STANDARD PLATE SW-104. CLASS P-1 SUITABLE BACKFILL MATERIAL WITH PIPE ENCASED WITH POLYETHLENE WRAP TUBES. OWNER WILL PROVIDE WATER FOR INITIAL FILL AND FLUSHING. TESTING AND DISINFECTION TO BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH AWWA C651. TRACER WIRE SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. TRACER WIRE SHALL BE #14 COPPER CLAD STEEL WIRE OR #12 AWG SOLID COPPER WITH 30-MIL HDPE INSULATING JACKET TAPED TO THE MAIN EVERY 20 FEET. TRACER WIRE GROUND RODS SHALL CONSIST OF A ONE (1) LB MAGNESIUM ALLOY ANODE ROD WITH MINIMUM DIMENSIONS OF 1.3" IN DIAMETER AND 18" IN LENGTH. THE ANODE ROD SHALL COME PREASSEMBLED WITH A PE CAP AND 10 FT OF TRACER WIRE ATTACHED. TRACER WIRE STATIONS SHALL BE TWO TERMINAL BOXES AS MFG. BY COPPERHEAD INDUSTRIES, VALVCO, OR APPROVED EQUAL. CONTRACTOR WILL BE CHARGED FOR WATER FLUSHING AFTER THE FIRST FAILED TEST. OWNER WILL TEST THE TRACER WIRE SYSTEM PRIOR TO FINAL ACCEPTANCE. . SEE TABULATION ON SHEET C.12.
61	2554-0112008	WATER MAIN, TRENCHED, DIP, 8"
		PIPE BEDDING CLASS SHALL CONFORM WITH IOWA DOT STANDARD PLATE SW-104. CLASS P-1 SUITABLE BACKFILL MATERIAL WITH PIPE ENCASED WITH POLYETHLENE WRAP TUBES. OWNER WILL PROVIDE WATER FOR INITIAL FILL AND FLUSHING. TESTING AND DISINFECTION TO BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH AWWA C651. TRACER WIRE SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. TRACER WIRE SHALL BE #14 COPPER CLAD STEEL WIRE OR #12 AWG SOLID COPPER WITH 30-MIL HDPE INSULATING JACKET TAPED TO THE MAIN EVERY 20 FEET. TRACER WIRE GROUND RODS SHALL CONSIST OF A ONE (1) LB MAGNESIUM ALLOY ANODE ROD WITH MINIMUM DIMENSIONS OF 1.3" IN DIAMETER AND 18" IN LENGTH. THE ANODE ROD SHALL COME PREASSEMBLED WITH A PE CAP AND 10 FT OF TRACER WIRE ATTACHED. TRACER WIRE STATIONS SHALL BE TWO TERMINAL BOXES AS MFG. BY COPPERHEAD INDUSTRIES, VALVCO, OR APPROVED EQUAL. CONTRACTOR WILL BE CHARGED FOR WATER FLUSHING AFTER THE FIRST FAILED TEST. OWNER WILL TEST THE TRACER WIRE SYSTEM PRIOR TO FINAL ACCEPTANCE. . SEE TABULATION ON SHEET C.12.
62	2554-0112012	WATER MAIN, TRENCHED, DIP, 12"
		PIPE BEDDING CLASS SHALL CONFORM WITH IOWA DOT STANDARD PLATE SW-104. CLASS P-1 SUITABLE BACKFILL MATERIAL WITH PIPE ENCASED WITH POLYETHLENE WRAP TUBES. OWNER WILL PROVIDE WATER FOR INITIAL FILL AND FLUSHING. TESTING AND DISINFECTION TO BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH AWWA C651. TRACER WIRE SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. TRACER WIRE SHALL BE #14 COPPER CLAD STEEL WIRE OR #12 AWG SOLID COPPER WITH 30-MIL HDPE INSULATING JACKET TAPED TO THE MAIN EVERY 20 FEET. TRACER WIRE GROUND RODS SHALL CONSIST OF A ONE (1) LB MAGNESIUM ALLOY ANODE ROD WITH MINIMUM DIMENSIONS OF 1.3" IN DIAMETER AND 18" IN LENGTH. THE ANODE ROD SHALL COME PREASSEMBLED WITH A PE CAP AND 10 FT OF TRACER WIRE ATTACHED. TRACER WIRE STATIONS SHALL BE TWO TERMINAL BOXES AS MFG. BY COPPERHEAD INDUSTRIES, VALVCO, OR APPROVED EQUAL. CONTRACTOR WILL BE CHARGED FOR WATER FLUSHING AFTER THE FIRST FAILED TEST. OWNER WILL TEST THE TRACER WIRE SYSTEM PRIOR TO FINAL ACCEPTANCE. . SEE TABULATION ON SHEET C.12.
63	2554-0203000	FITTINGS BY WEIGHT, DI
		ALL FITTINGS SHALL BE DUCTILE IRON, MECHANICAL JOINT, RESTRAINED JOINT WITH MEGALUG OR APPROVED EQUAL. NUTS AND BOLTS TO BE FLUOROCARBON COATED WITH 1-2.5 MIL THICKNESS. WEIGHTS ARE PER AWWA C-153. POLYETHYLENE WRAP AND BEDDING MATERIAL IS CONSIDERED INCIDENTAL TO THIS ITEM. ALL JOINTS TO HAVE A MINIMUM OF (2) 6 OZ. SACRIFICIAL ZINC ANODE CAPS PER GLAND INSTALLED. ANY NECESSARY THRUST BLOCKS SHALL BE INCIDENTAL TO THIS ITEM. SEE TABULATION ON SHEET C.12.
64	2554-0204120	WATER SERVICE STUB, COPPER, 2"
		REFER TO MWM SHEETS FOR LOCATIONS, ELEVATIONS AND CONSTRUCTION NOTES. PIPE MATERIAL SHALL BE TYPE 'K' COPPER. SEE TABULATION ON SHEET C.12. ALL WATER SERVICES SCHEDULED FOR REPLACEMENT SHALL BE PROVIDED WITH A WATER SERVICE PIPE FROM THE NEW CORPORATION STOP AT THE NEW MAIN TO THE NEW CURB STOP LOCATION AT THE PROPERTY LINE AND THEN TO THE EXISTING SERVICE PIPE. REMOVAL OF EXISTING SERVICE LINE AND CURB STOP SHALL BE INCIDENTAL TO THIS ITEM. CONTRACTOR TO VERIFY SERVICE LOCATIONS AND CONNECTIONS WITH THE CITY. FURNISHING AND PLACEMENT OF ELBOWS, BENDS, TEES, BEDDING AND BACKFILL MATERIALS SHALL BE DEEMED INCIDENTAL TO THIS ITEM. NO COUPLINGS WILL BE ALLOWED ON SERVICE PIPE BETWEEN MAIN AND CURB STOP. ALL FITTINGS FOR THE SERVICE SHALL BE COMPRESSION STYLE.
65	2554-0205720	WATER SERVICE CURB STOP & BOX, COPPER, 2"
		CORPORATION STOP SHALL BE INCLUDED WITH THIS ITEM. TAPPING SADDLE SHALL BE DUCTILE IRON BODY WITH 304L STAINLESS STEEL STRAPS AND 4 STAINLESS STEEL BOLTS. CURB STOP AND CORPORATION STOP SHALL BE BALL VALVE STYLE WITH CTS COMPRESSION FITTINGS, AS MFG. BY A.Y. MCDONALD, FORD METER COMPANY, OR APPROVED EQUAL. CURB BOX SHALL BE MINNEAPOLIS PATTERN WITH 1-1/4" UPPER SECTION AND LID WITH PENTAGON PLUG AS MFG. BY A.Y. MCDONALD, FORD METER COMPANY OR APPROVED EQUAL. SEE TABULATION ON SHEET C.12.
66	2554-0207006	VALVE, GATE, DIP, 6"
		VALVES SHALL BE RESILIENT WEDGE, NON-RISING STEM, IRON BODY, 2" SQUARE OPENING NUT, OPEN LEFT, MECHANICAL JOINTS AND 200 PSI WORKING PRESSURE. VALVE BOXES SHALL BE HEAVY DUTY (THICK CAST) MARKED "WATER" ON VALVE BOX COVER. VALVES SHALL BE MUELLER RESILIENT WEDGE GATE VALVES WITH STAINLESS STEEL BOLTS, OR APPROVED EQUAL. SEE TABULATION ON SHEET C.12.
67	2554-0207012	VALVE, GATE, DIP, 12"
		VALVES SHALL BE RESILIENT WEDGE, NON-RISING STEM, IRON BODY, 2" SQUARE OPENING NUT, OPEN LEFT, MECHANICAL JOINTS AND 200 PSI WORKING PRESSURE. VALVE BOXES SHALL BE HEAVY DUTY (THICK CAST) MARKED "WATER" ON VALVE BOX COVER. VALVES SHALL BE MUELLER RESILIENT WEDGE GATE VALVES WITH STAINLESS STEEL BOLTS, OR APPROVED EQUAL. SEE TABULATION ON SHEET C.12.
68	2554-0208006	TAPPING VALVE ASSEMBLY, 6"
		VALVES SHALL BE RESILIENT WEDGE, NON-RISING STEM, IRON BODY, 2" SQUARE OPENING NUT, OPEN LEFT, MECHANICAL JOINTS AND 200 PSI WORKING PRESSURE. VALVE BOXES SHALL BE HEAVY DUTY (THICK CAST) MARKED "WATER" ON VALVE BOX COVER. VALVES SHALL BE MUELLER RESILIENT WEDGE GATE VALVES WITH STAINLESS STEEL BOLTS, OR APPROVED EQUAL. SEE TABULATION ON SHEET C.12.
69	2554-0208012	TAPPING VALVE ASSEMBLY, 12"
		VALVES SHALL BE RESILIENT WEDGE, NON-RISING STEM, IRON BODY, 2" SQUARE OPENING NUT, OPEN LEFT, MECHANICAL JOINTS AND 200 PSI WORKING PRESSURE. VALVE BOXES SHALL BE HEAVY DUTY (THICK CAST) MARKED "WATER" ON VALVE BOX COVER. VALVES SHALL BE MUELLER RESILIENT WEDGE GATE VALVES WITH STAINLESS STEEL BOLTS, OR APPROVED EQUAL. SEE TABULATION ON SHEET C.12.
70	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201
		ALL FITTINGS, JOINTS, GATE VALVES, AND 6" DI PIPE NECESSARY TO INSTALL HYDRANT SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. HYDRANTS SHALL BE MUELLER SUPER CENTURION 250 3-WAY HYDRANTS MODEL A-423. VALVES SHALL BE MUELLER RESILIENT WEDGE GATE VALVES WITH STAINLESS STEEL BOLTS, OR APPROVED EQUAL. HYDRANTS SHALL BE PAINTED ALL YELLOW. SEE TABULATION ON SHEET C.12.

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Item No.	Item Code	Description
71	2554-0211006	FLUSHING DEVICE, TEMPORARY, (BLOWOFF), 6"
		THIS SHALL BE FULL COMPENSATION FOR INSTALLATION AND REMOVAL OF THIS ITEM FOR WATER MAIN TESTING. REMOVAL SHALL BE ONLY WHEN WATER MAIN SEGMENT UNDER TESTING HAS PASSED ALL QUALITY ASSURANCE.
72	2554-0214000	FIRE HYDRANT ADJUSTMENT
		REFER TO 'MWM' SHEETS FOR LOCATIONS AND TABULATION ON SHEET C.09 AND C.12 FOR THE EXISTING FIRE HYDRANT ADJUSTMENTS. THIS SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO MAKE FINISH ELEVATION ADJUSTMENTS.
73	2555-0000010	DELIVER AND STOCKPILE SALVAGED MATERIAL
		ITEM INCLUDES DELIVERY AND STOCKPILE OF ALL SALVAGED SIGNS TO THE CITY OF STORM LAKE STREET DEPARTMENT AND STOCKPILE OF ALL SALVAGED HYDRANTS TO THE CITY OF STORM LAKE WATER DEPARTMENT. MEASUREMENT AND PAYMENT WILL BE LUMP SUM. PAYMENT WILL BE MADE AS A PERCENTAGE OF EACH SIGN OR HYDRANT STOCKPILED. SEE TABULATION ON SHEET C.11.
74	2599-9999005	CONNECT TO EXISTING SANITARY SEWER
		CONNECTIONS TO EXISTING PIPE TO BE ACCOMPLISHED WITH COUPLER COMPLYING TO CCSA B602, ASTM D5926, AND ASTM C1173. CONNECTIONS TO EXISTING SHALL BE MADE USING NO SHEAR RUBBER BOOT CONNECTORS WITH STAINLESS STEEL SHEAR BANDS AND STRAPS. ITEM SHALL BE FOR BOTH THE CONNECTION TO EXISTING SERVICE AND CONNECTION TO EXISTING MAIN COMBINED. ENGINEER SHALL COUNT EACH CONNECTION TO EXISTING SERVICE AND CONNECTION TO EXISTING MAIN PAIRS AND ITEM SHALL BE PAID AT THE CONTRACT UNIT PRICE PER EACH CONNECTION.
75	2599-9999005	CONNECT TO EXISTING STORM SEWER
		METHOD OF MEASUREMENT SHALL BE EACH CONNECTION AS COMPLETED AND PAID AT THE CONTRACT UNIT PRICE. ITEM SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY TO CONSTRUCT A CONCRETE COLLAR TO CONNECT NEW AND EXISTING STORM SEWER PIPES ACCORDING TO THE DETAIL ON SHEET NO. B.03, NEW STORM SEWER TO EXISTING STORM STRUCTURES OR NEW STORM SEWER STRUCTURES TO EXISTING STORM SEWER PIPES AND SUBDRAINS TO EXISTING STORM SEWER STRUCTURES. ANY EXISTING PIPE REMOVED AND REPLACED FOR THE INSTALLATION OF A STORM SEWER STRUCTURE SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. SEE SHEET NUMBERS M.02, M.04, M.06 AND M.07, LOCATIONS AS NOTED.
76	2599-9999005	CONNECT TO EXISTING WATER MAIN
		METHOD OF MEASUREMENT SHALL BE EACH CONNECTION AS COMPLETED AND PAID AT THE CONTRACT UNIT PRICE. ITEM SHALL INCLUDE ALL LABOR AND PARTS NECESSARY TO CONNECT PROPOSED WATERMAIN TO THE EXISTING WATERMAIN. MAXIMUM SHUT DOWN LENGTH FOR THE CONNECTION SHALL BE NO MORE THAN 2 HOURS AS DIRECTED BY THE IOWA DNR. NO RESIDENT MAY BE SHUT DOWN MORE THAN 1 TIME IN A 24 HOUR PERIOD. ENGINEER SHALL COUNT EACH CONNECTION AND ITEM SHALL BE PAID AT THE CONTRACT UNIT PRICE PER EACH CONNECTION. SEE TABULATION ON SHEET C.12.
77	2599-9999005	MANHOLE, WATER MAIN AIR RELEASE
		METHOD OF MEASUREMENT SHALL BE EACH WATER MAIN MANHOLE W/AIR RELEASE COMPLETED AS PER DETAIL WILL BE COUNTED. THIS WILL BE FULL COMPENSATION FOR ALL EQUIPMENT, LABOR, MANHOLE, PIPE, BENDS, AIR RELEASE VALVE, VALVE SUPPORT AND CONNECTIONS, CASTING, ADJUSTING RINGS, BEDDING MATERIAL AS DETAILED. SEE WATER MAIN MANHOLE W/AIR RELEASE VALVE DETAIL ON SHEET B.03.
78	2599-9999005	SALVAGE FIRE HYDRANT
		METHOD OF MEASUREMENT SHALL BE EACH SALVAGED EXISTING FIRE HYDRANT IN WORKING CONDITION RETURNED TO CITY OF STORM LAKE WATER DEPARTMENT. PAYMENT SHALL BE PER EACH HYDRANT DELIVERED TO THE CITY. SEE TABULATION ON SHEET C.10.
79	2599-9999005	TILE REPAIR <12"
		DRAIN TILE ENCOUNTERED ON THIS PROJECT, MARKED OR OTHERWISE, SHALL BE PROTECTED IN PLACE IF POSSIBLE OR REPAIRED. SIZE AND TYPE OF PIPE SHALL BE VERIFIED IN THE FIELD. PAYMENT SHALL BE MADE PER EACH PIPE REPAIR UP TO 12" IN NOMINAL DIAMETER. CONNECTIONS TO EXISTING SHALL BE MADE USING NO SHEAR RUBBER BOOT CONNECTORS WITH STAINLESS STEEL SHEAR BANDS AND STRAPS. ENGINEER SHALL MEASURE EACH REPAIR AND ITEM SHALL BE PAID AT THE CONTRACT UNIT PRICE PER EACH COMPLETED REPAIR.
80	2599-9999005	TILE REPAIR 12"-24"
		DRAIN TILE ENCOUNTERED ON THIS PROJECT, MARKED OR OTHERWISE, SHALL BE PROTECTED IN PLACE IF POSSIBLE OR REPAIRED. SIZE AND TYPE OF PIPE SHALL BE VERIFIED IN THE FIELD. PAYMENT SHALL BE MADE PER EACH PIPE REPAIR BETWEEN 12" AND UP TO 24" IN NOMINAL DIAMETER. CONNECTIONS TO EXISTING SHALL BE MADE USING NO SHEAR RUBBER BOOT CONNECTORS WITH STAINLESS STEEL SHEAR BANDS AND STRAPS. ENGINEER SHALL MEASURE EACH REPAIR AND ITEM SHALL BE PAID AT THE CONTRACT UNIT PRICE PER EACH COMPLETED REPAIR.
81	2599-9999007	EXPLORATORY EXCAVATION, GENERAL
		THIS ITEM IS FOR THE INVESTIGATION OF LOCATIONS AND ELEVATIONS OF AN EXISTING UTILITY TO VERIFY THE POTENTIAL FOR CONFLICTS. THE ENGINEER OR THEIR REPRESENTATIVE MUST VERIFY THE CONDITIONS FOUND. QUANTITY IS ESTIMATED TO ESTABLISH UNIT PRICE. NO PAYMENT WILL BE MADE FOR EXPLORATORY EXCAVATION UNLESS SPECIFICALLY DIRECTED AND AGREED TO BY THE ENGINEER. EXPLORATORY EXCAVATION WILL NOT BE PAID FOR EXCAVATION REQUIRED TO LOCATE AND CONNECT TO EXISTING PIPES UNLESS THE ENGINEER AGREES THAT EXCAVATION BEYOND WHAT COULD BE CONSIDERED REASONABLE IS REQUIRED. WHERE EXPLORATORY EXCAVATION IS PERFORMED IN A LOCATION THAT WILL NOT BE DISTURBED LATER, BACKFILL SHALL BE PLACED AND COMPACTED TO THE DENSITY SPECIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS FOR THE TYPE OF UTILITY LOCATED. ENGINEER SHALL COUNT EACH HOUR OF EXCAVATION ONLY AND ITEM SHALL BE PAID AT THE CONTRACT UNIT PRICE PER HOUR. TIME FOR EXCAVATION IS PAID, TIME FOR BACKFILL OPERATIONS IS INCIDENTAL TO ITEM.
82	2599-9999007	EXPLORATORY EXCAVATION, VAC TRUCK
		THIS ITEM IS FOR THE INVESTIGATION OF LOCATIONS AND ELEVATIONS OF AN EXISTING UTILITY TO VERIFY THE POTENTIAL FOR CONFLICTS. THE ENGINEER OR THEIR REPRESENTATIVE MUST VERIFY THE CONDITIONS FOUND. QUANTITY IS ESTIMATED TO ESTABLISH UNIT PRICE. NO PAYMENT WILL BE MADE FOR VACUUM TYPE EQUIPMENT TO PERFORM THE EXCAVATION UNLESS SPECIFICALLY DIRECTED AND AGREED TO BY THE ENGINEER. ENGINEER SHALL COUNT EACH HOUR OF VACUUM TYPE EQUIPMENT TO PERFORM THE EXCAVATION AND ITEM SHALL BE PAID AT THE CONTRACT UNIT PRICE PER HOUR. ALL LOCATIONS SHALL BE BACKFILLED WITH MATERIAL IF THEY WILL NOT BE DISTURBED BY OTHER OPERATIONS.
83	2599-9999009	WATER MAIN REMOVAL OR ABANDONMENT
		CONTRACTOR SHALL EITHER REMOVE OR ABANDON WATER MAIN IN PLACE AND IS INCIDENTAL TO THE EXCAVATION. IF ABANDONMENT IS CHOSEN CONTRACTOR SHALL INSTALL A MEGALUG CAP AT THE END OF THE EXISTING WATERMAIN PIPE TO PROTECT IT FROM SOIL AND SHALL BE INCLUDED IN THIS ITEM. EXISTING VALVES AND VALVE BOXES MARKED FOR REMOVAL SHALL BE INCIDENTAL TO THIS ITEM. ALL BACKFILL REQUIRED SHALL BE INCLUDED WITH THIS ITEM. ITEM SHALL BE PAID BY THE LINEAR FOOT ABANDONED OR REMOVED AS MEASURED BY THE ENGINEER AND BASIS OF PAYMENT WILL BE BY THE LINEAR FOOT. SEE TABULATION SHEET C.10.

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Item No.	Item Code	Description
84	2599-9999010	TEMPORARY WATER
		CONTRACTOR SHALL MAINTAIN WATER SERVICE TO ALL PROPERTIES IN THE PROJECT AREA. CONTRACTOR MAY TEMPORARILY INTERRUPT WATER SERVICE FOR A MAXIMUM OF 2 HOURS TO ANY PROPERTY WITHIN A 24 HOUR WINDOW. CONTRACTOR SHALL CAREFULLY PLAN SEQUENCE OF WATERMAIN CONSTRUCTION AND SHALL TAKE NECESSARY CONSTRUCTION MEASURES AS REQUIRED TO ADEQUATELY RESTORE AND MAINTAIN SERVICE TO ALL AREAS AFFECTED BY CONSTRUCTION. SUCH PROPOSED MEASURES AND PLAN OF ACTION SHALL BE REVIEWED AND APPROVED BY THE OWNER AND THE ENGINEER PRIOR TO SCHEDULED SERVICE INTERRUPTION. TEMPORARY PIPES, FITTINGS, AND VALVES, INCLUDING DISINFECTION IN ACCORDANCE WITH AWWA C-651 SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. ADEQUATE PRESSURE MUST BE MAINTANINED TO COMMERCIAL PROPERTIES WITH FIRE SUPPRESSION SYSTEMS. THIS IS A LUMP SUM ITEM AND NO MEASUREMENT WILL BE MADE PROPORTIONATE TO THE COMPLETION PERCENTAGE OF WATER RELATED CONSTRUCTION.
85	2599-9999018	POLYSTYRENE INSULATION, 4"
		INSULATION SHALL BE EXTRUDED RIGID BOARD MATERIAL WITH A THERMAL CONDUCTIVITY OF 0.23 BTU/HOUR/SQUARE FOOT/DEGREE FAHRENHEIT/INCH THICKNESS, MAXIMUM AT 40 F MEAN, MINIMUM COMPRESSIVE STRENGTH OF 35 PSI AND WATER ABSORPTION OF 0.25% BY VOLUME MEDIAN. BOARD DIMENSIONS SHALL BE 8' LONG, 2 OR 4' WIDE, AND EITHER 1.5", 2", OR 3" THICK. INSULATION SHALL BE PLACED ON A BED OF SAND AND SAND SHALL BE PLACED ABOVE THE INSULATION TO ISOLATE THE INSULATION FROM ROCKS AND OTHER SHARP OBJECTS. MEASUREMENT WILL BE BY THE SQUARE YARD OF INSULATION INSTALLED. PAYMENT WILL BE AT THE UNIT PRICE PER SQUARE YARD.
86	2601-2636043	SEED AND FERTILIZE (RURAL)
		CONTRACTOR SHALL SEED ALL AREAS THAT WILL NOT BE WORKED FOR MORE THAN 14 CALENDAR DAYS AS DIRECTED BY THE ENGINEER. SEED SHALL COMPLY WITH RURAL TYPE SEED MIX AND RATES.
87	2601-2636044	SEED AND FERTILIZE (URBAN)
		CONTRACTOR SHALL SEED ALL AREAS THAT WILL NOT BE WORKED FOR MORE THAN 14 CALENDAR DAYS AS DIRECTED BY THE ENGINEER. SEED SHALL COMPLY WITH URBAN TYPE SEED MIX AND RATES.
88	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR
		ITEM SHALL BE PLACED OVER ALL AREAS MARKED FOR SEED AND FERTILIZE (URBAN AND RURAL) AFTER SEEDING AND FERTILIZATION HAS BEEN COMPLETED. MECHANICALLY FASTEN PRODUCT ACCORDING TO MANUFACTURE RECOMENDATIONS. MEASUREMENT WILL BE BY THE SQUARE INSTALLED. PAYMENT WILL BE AT THE UNIT PRICE PER SQUARE. SEE TABULATION SHEET C.05.
89	2601-2640350	SPECIAL DITCH CONTROL,WOOD EXCELSIOR MAT
		ITEM SHALL BE PLACED OVER ALL AREAS MARKED FOR SEED AND FERTILIZE (URBAN AND RURAL) AFTER SEEDING AND FERTILIZATION HAS BEEN COMPLETED. MECHANICALLY FASTEN PRODUCT ACCORDING TO MANUFACTURE RECOMENDATIONS. MEASUREMENT WILL BE BY THE SQUARE INSTALLED. PAYMENT WILL BE AT THE UNIT PRICE PER SQUARE. SEE TABULATION SHEET C.05.
90	2602-0000020	SILT FENCE
		REFER TO 'RC' SHEETS FOR LOCATIONS OF SILT FENCE AND TABULATIONS ON SHEET C.05.
91	2602-0000030	SILT FENCE-DITCH CHECKS
		REFER TO 'RC' SHEETS FOR LOCATIONS OF SILT FENCE DITHC CHECKS AND TABULATIONS ON SHEET C.05.
92	2602-0000071	REMOVAL OF SILT FENCE/SILT FENCE-DITCH CHECK
93	2602-0000101	MAINT OF SILT FENCE/SILT FENCE-DITCH CHECK
94	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303
		REFER TO 'RC' SHEETS FOR LOCATIONS OF STABILIZED CONSTRUCTION ENTRANCES.
95	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9"
		REFER TO 'RC' SHEETS FOR LOCATIONS. THIS ITEM WILL BE FULL COMPENSATION FOR INLET PERIMETER PROTECTION ON APRONS AND AREA INTAKES OR OTHER AREAS AS REQUIRED BY ENGINEER. LEAVE IN PLACE AND ALLOW TO DEGRADE, REMOVAL NOT REQUIRED. SEE SHEET C.05 FOR TABULATION.
96	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG
		SW-505 INTAKES SHALL BE PAID PER INTAKE CASTING (2 EACH). SEE TABULATION ON SHEET C.06. MEASUREMENT SHALL BE EACH COUNT OF FILTER BAG INSTALLED AND PAYMENT AT THE CONTRACT UNIT PRICE PER EACH FILTER BAG.
97	2602-0000540	MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG
		SEE TABULATION ON SHEET C.06. MEASUREMENT SHALL BE EACH COUNT OF FILTER BAG FOR MAINTENANCE AND PAYMENT AT THE CONTRACT UNIT PRICE PER EACH FILTER BAG INSTALLED AND ACTIVELY MAINTAINED.
98	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG
		SEE TABULATION ON SHEET C.06. MEASUREMENT SHALL BE EACH COUNT OF FILTER BAG REMOVED AND PAYMENT AT THE CONTRACT UNIT PRICE PER EACH FILTER BAG REMOVED.
99	2602-0010010	MOBILIZATION, EROSION CONTROL

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ROLLED EROSION CONTROL

Refer to EC-101, EC-103, and EC-104.

This Data Entry Sheet fills Tab 100-22 effective 04-21-15

Location				L	W	Number of Squares	Turf Reinforcement Mat (TRM) (EC-104)				Slope Protection (EC-103)	Special Ditch Control (EC-101)	Remarks
Road Identification	Begin Station	End Station	Side	FT	FT		Type 1	Type 2	Type 3	Type 4	Squares	Squares	
							Squares	Squares	Squares	Squares			
OPEN DITCH	301+43.63	307+01.71	C	558.0	10.0	56						56.0	
OPEN DITCH	301+43.63	307+23.25	LT								139		
OPEN DITCH	301+43.63	307+23.25	RT								91		
E. RICHLAND STREET - STAGE 1 & 2	0+50	0+79	RT								3		
E. RICHLAND STREET - STAGE 1 & 2	1+53	3+62	RT								30		
E. RICHLAND STREET - STAGE 1 & 2	4+03	8+91	RT								116		
E. RICHLAND STREET - STAGE 1 & 2	5+45	8+14	RT									31	
E. RICHLAND STREET - STAGE 1 & 2	4+00	8+16	LT								95		
E. RICHLAND STREET - STAGE 1 & 2	4+82	7+98	LT									37	
E. RICHLAND STREET - STAGE 2 & 3	9+15	11+60	RT								50		
E. RICHLAND STREET - STAGE 2 & 3	9+58	11+45	RT									19	
E. RICHLAND STREET - STAGE 2 & 3	11+78	14+05	RT								53		
E. RICHLAND STREET - STAGE 2 & 3	13+00	13+82	RT									8	
E. RICHLAND STREET - STAGE 2 & 3	14+39	26+37	RT								165		
E. RICHLAND STREET - STAGE 2 & 3	14+58	26+32	RT									117	
E. RICHLAND STREET - STAGE 2 & 3	8+53	11+60	LT								59		
E. RICHLAND STREET - STAGE 2 & 3	8+53	11+41	LT									31	
E. RICHLAND STREET - STAGE 2 & 3	11+97	12+86	LT								22		
E. RICHLAND STREET - STAGE 2 & 3	12+27	12+71	LT									4	
E. RICHLAND STREET - STAGE 2 & 3	13+22	14+13	LT								23		
E. RICHLAND STREET - STAGE 2 & 3	13+47	13+95	LT									5	
E. RICHLAND STREET - STAGE 2 & 3	14+54	15+24	LT								15		
E. RICHLAND STREET - STAGE 2 & 3	14+71	14+956	LT									2	
E. RICHLAND STREET - STAGE 2 & 3	15+61	17+87	LT								42		
E. RICHLAND STREET - STAGE 2 & 3	15+83	17+62	LT									18	
E. RICHLAND STREET - STAGE 2 & 3	18+32	19+21	LT								17		
E. RICHLAND STREET - STAGE 2 & 3	18+55	18+97	LT									4	
E. RICHLAND STREET - STAGE 2 & 3	19+54	20+77	LT								25		
E. RICHLAND STREET - STAGE 2 & 3	19+73	20+55	LT									8	
E. RICHLAND STREET - STAGE 2 & 3	21+22	24+05	LT								44		
E. RICHLAND STREET - STAGE 2 & 3	21+39	23+85	LT									25	
E. RICHLAND STREET - STAGE 2 & 3	24+45	26+40	LT								26		
E. RICHLAND STREET - STAGE 2 & 3	24+60	26+40	LT									18	
										TOTALS	1015	384	

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201

* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: [0.5*Spacing*(0.5*H_2*FS+DW*H+0.5*H_2*BS)]

This Data Entry Sheet fills Tab 100-18 effective 10-16-18

Basin No.	Type	Location		Bid Items			Stormwater Storage Volume Summary							Subtotal	Remarks
		Station	Side	Installation LF	Maintenance LF	Removal LF	Foreslope FS:1	Backslope BS:1	Ditch Width FT	Avg.% Slope Ditch Grade	Spacing	Down Stream	Volume* CF		
	1	7+83.61	LT	25.0	25.0	25.0	4.9	3.0	4.0	1.5%	100.0	12.5			E. RICHLAND ST. ALIGNMENT
	1	6+81.36	LT	25.0	25.0	25.0	5.6	3.0	4.0	1.5%	100.0	13.1			E. RICHLAND ST. ALIGNMENT
	1	5+81.02	LT	25.0	25.0	25.0	3.4	3.0	4.0	1.5%	100.0	11.1			E. RICHLAND ST. ALIGNMENT
	1	4+90.41	LT	25.0	25.0	25.0	4.9	3.0	4.0	0.8%	155.0	12.5			E. RICHLAND ST. ALIGNMENT
	1	7+92.73	RT	25.0	25.0	25.0	6.6	3.0	4.0	3.3%	45.0	14.0			E. RICHLAND ST. ALIGNMENT
	1	7+47.70	RT	25.0	25.0	25.0	6.0	3.0	4.0	1.3%	100.0	13.5			E. RICHLAND ST. ALIGNMENT
	1	6+47.70	RT	25.0	25.0	25.0	6.0	3.0	4.0	1.4%	100.0	13.5			E. RICHLAND ST. ALIGNMENT
	1	306+80.98	CL	45.0	45.0	45.0	4.0	4.0	4.0	0.1%	315.0	12.6			OPEN DITCH
	1	303+79.12	CL	45.0	45.0	45.0	4.0	4.0	4.0	0.1%	315.0	12.6			OPEN DITCH
	1	9+28.68	LT	25.0	25.0	25.0	6.8	3.0	4.0	1.0%	155.0	14.2			E. RICHLAND ST. ALIGNMENT
	1	10+83.61	LT	25.0	25.0	25.0	4.5	3.0	4.0	1.0%	155.0	12.1			E. RICHLAND ST. ALIGNMENT
	3	16+12.63	LT	25.0	25.0	25.0	25.6	3.0	4.0	0.3%	315.0	31.2			E. RICHLAND ST. ALIGNMENT
	3	21+55.35	LT	25.0	25.0	25.0	18.4	3.0	4.0	0.7%	155.0	24.7			E. RICHLAND ST. ALIGNMENT
	3	26+27.70	LT	25.0	25.0	25.0	24.3	3.0	4.0	0.7%	155.0	29.9			E. RICHLAND ST. ALIGNMENT
	1	24+20.00	RT	25.0	25.0	25.0	3.7	3.0	4.0	0.4%	315.0	11.4			E. RICHLAND ST. ALIGNMENT
	1	21+05.00	RT	25.0	25.0	25.0	4.7	3.0	4.0	0.4%	315.0	12.3			E. RICHLAND ST. ALIGNMENT
	1	17+90.00	RT	25.0	25.0	25.0	4.4	3.0	4.0	0.4%	315.0	12.0			E. RICHLAND ST. ALIGNMENT
	3	14+75.00	RT	25.0	25.0	25.0	3.3	3.0	4.0	0.4%	315.0	11.1			E. RICHLAND ST. ALIGNMENT
	3	13+25.00	RT	25.0	25.0	25.0	3.0	3.0	4.0	0.4%	315.0	10.8			E. RICHLAND ST. ALIGNMENT
	3	11+25.00	RT	25.0	25.0	25.0	4.9	3.0	4.0	1.3%	100.0	12.5			E. RICHLAND ST. ALIGNMENT
	1	10+25.00	RT	25.0	25.0	25.0	6.0	3.0	4.0	1.3%	100.0	13.5			E. RICHLAND ST. ALIGNMENT

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Location			Length of Installation			Remarks
Begin Station	End Station	Side	9 inch Dia LF	12 inch Dia LF	20 inch Dia LF	
5+12.22		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRONS)
5+16.43		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRONS)
5+29		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR EXIST. APRON)
7+73.83		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
11+44.76		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
11+45.64		RT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
12+12.90		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR EXIST. INTAKE)
13+00.30		RT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
13+44.07		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
13+80.48		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR EXIST. APRON)
13+80.55		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR EXIST. INTAKE)
14+55.31		RT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
14+68.29		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
15+93.96		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
15+99.10		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
18+59.44		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
18+62.75		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
19+73.06		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
21+37.94		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
26+41.32		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR EXIST. APRON)

TABULATION OF SILT FENCES

Refer to EC-201

This Data Entry Sheet fills Tab 100-17 effective 04-20-10

Location			Length	Remarks
Begin Station	End Station	Side	LF	
4+63.05	5+84.67	RT	124.0	E. RICHLAND ST ALIGNMENT
9+23.91	9+36.53	RT	25.0	E. RICHLAND ST ALIGNMENT
9+36.53	26+29.76	RT	1693.0	E. RICHLAND ST ALIGNMENT

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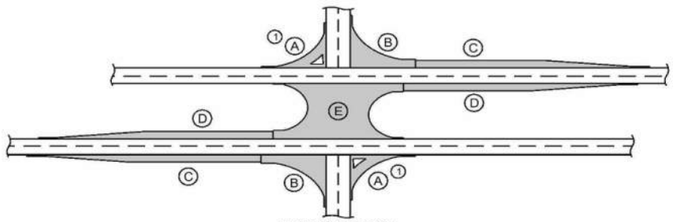
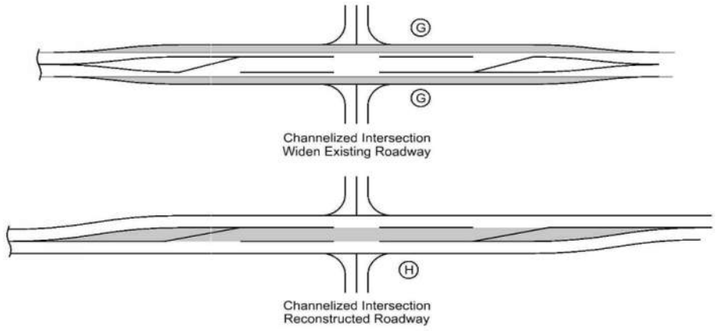
PCC PAVEMENT

This Data Entry Sheet fills Tab 100-24 effective 04-21-15





1. Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
2. Refer to PV-410, PV-411, PV-412, and PV-414.
3. Quantity includes Pavement Header.

Location				Mainline			Area (3)													
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	A (1)	B	C	D	E	F (2)	G	H	Total Area By Pavement Thickness		Special Backfill	Modified Subbase	Granular Subbase	Remarks
															SY					
				FT	FT	SY	SY	SY	SY	SY	SY	SY	SY	SY	8 IN	10½ IN	TONS	CY	SY	
E. RICHLAND STREET	W/E	+49.80	5+75.00	31.0	525.2	1809.0	28.5	28.5							1866.0			347.2		FULL CURB AND GUTTER
E. RICHLAND STREET	W/E	5+75.00	6+62.50	VARIES	87.5	267.4									267.4			51.0		NO CURB AND GUTTER
E. RICHLAND STREET	W/E	6+62.50	9+57.52	24.0	295.0	786.7	260.1	253.0							1299.8			243.8		NO CURB AND GUTTER
INDUSTRY STREET	N/S	+15.50	+23.65	31.0	8.2	28.1									28.1			4.7		NO CURB AND GUTTER
EXPANSION BLVD.	N/S	+65.20	1+43.16	24.0	78.0	207.9									207.9			34.7		NO CURB AND GUTTER
EXPANSION BLVD.	N/S	1+69.47	2+41.16	24.0	71.7	191.2									191.2			31.9		NO CURB AND GUTTER
RAY STREET	N/S	+45.44	+83.01	24.0	37.6	100.2	38.9	38.9							177.9			33.9		INTERSECTION
ROTHMOOR ROAD	N/S	+35.50	+88.00	24.0	52.5	140.0	88.0	88.0							315.9			58.7		INTERSECTION
														Totals	4354.2			806.0		

GRATE INTAKE SEDIMENT FILTER BAG

Possible Detail: 570-7

This Data Entry Sheet fills Tab 100-37 effective 04-18-17

Location Station	Side	Installation	Maintenance	Removal	Remarks
		EACH	EACH	EACH	
1+89.26	RT	2	2	2	
1+89.26	LT	2	2	2	
5+14.34	RT	2	2	2	
5+14.34	LT	2	2	2	

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FULL-DEPTH PATCHES

Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105 and PR-140.

This Data Entry Sheet fills Tab 102-6C effective 04-18-17

Location				Dimension			PCC Patches													
Count	Station	Reference Location Sign	Lane	Length	Width	Patch Thickness	With Dowels	Without Dowels	C R C	Ramp with Dowels	HMA Patches	Composite HMA	Subbase Patches	Subbase Patch w/ 'EF' Joint	Patch Subdrain	'CD' Joints	'CT' Joints	'EF' Joints	Anchor Lugs Removal	Remarks
							PR-103	PR-102	PR-104	PR-105			PR-140	PR-101	PR-101 or PR-140			PR-101		
			L, R, or B	FT	FT	IN	SY	SY	SY	SY	SY	TON	SY	SY	No.	No.	No.	No.	No.	
2	11+28.30		B	20.0	24.0	9.0	53									1				
2	11+89.80		B	28.5	24.0	9.0	76									1				
1	12+47.00		R	21.0	4.0	9.0	9									1				
2	12+98.00		B	90.4	24.0	9.0	241									4				
1	13+88.40		L	30.5	6.0	9.0	20									2				
1	14+38.50		L	20.5	7.0	9.0	16										1			
1	14+99.10		L	20.0	6.0	9.0	13										1			
2	15+39.80		B	160.0	24.0	9.0	427									9				
1	17+39.70		L	20.0	5.0	9.0	11										1			
1	18+30.00		L	37.5	12.0	9.0	50									2				
1	18+30.00		R	30.0	12.0	9.0	40									1				
1	21+20.50		L	20.0	8.0	9.0	18										1			
1	21+80.70		L	40.0	12.0	9.0	53									2				
1	21+80.70		R	43.0	12.0	9.0	57									2				
1	25+75.10		R	6.0	12.0	9.0	8													
1	26+01.60		R	6.0	12.0	9.0	8													
1	26+20.10		R	19.0	12.0	9.0	25										1			
1	26+30.10		L	9.0	12.0	9.0	12										1			
						Totals	1139													

PARTIAL DEPTH PCC FINISH PATCHES

Possible Standard: PR-107

This Data Entry Sheet fills Tab 102-10 effective 10-16-18

Location					Estimated Quantities				
Begin Station	End Station	Begin Reference Location Sign	End Reference Location Sign	Lane	Finish Patches		Joint and Crack Repair Patches		Remarks
					Number	SF	Number	LF	
10+52.50	10+61.60			R	1	55			
10+97.60	11+22.60			R	1	150			
21+40.70	21+42.70			R	1	4			
24+75.10	24+77.10			L	1	4			
26+51.90	26+53.90			L	1	4			
26+53.90	26+55.90			B			1	21	
					Total	217		21	

DRAINAGE STRUCTURE BY ROAD CONTRACTOR

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.

* Not a bid item

①Diameter or equivalent diameter

②UNCL = Unclassified Pipe CMP = Corrugated Metal Pipe RCP = Reinforced Concrete Pipe LCP = Arch or Elliptical Low Clearance Pipe SARC = Steel Arch Pipe

③Backfill according to DR-101

This Data Entry Sheet fills Tab 104-3 effective 10-17-17

Drainage Area	Location	Type	Size ①	Kind Of Pipe ②	Length New Const.	Bedding Class	Design Cover (H)	Camber* (DR-102)	Apron No.		Apron Guard* (DR-213)	Elbow* (DR-141)	Diaphragm* (DR-501)	Tee Section* (DR-142)	"D" Section* (DR-141)	Reducer*	Type 'C' Connections* (DR-122)		Connected Pipe Joint* (DR-121)	4" Perforated Subdrain*	Flow Line Elevations				Dimensions Lin. Ft.				Skew Ahead Degrees		Dike				Class 20	Flowable Mortar	Floodable* Backfill	Porous* Backfill	Flooded Backfill	Remarks
																									Total		Extensions				Rt.	Location Station	Top Elevation	Type						
ACRE			IN		LF		FT	FT	IN	OUT	No.	No.	No.	No.	No.	No.	Type	No.	Type	FT	Lt.	Rt.	Other	Other	Lt.	Rt.	Lt.	Rt.	Lt.	Rt.	Lt.				CY	CY	(A) CY	(B) CY	(A+B) CY	
	STA. 13+52.06		24	RCP	64	C	3.9	0.08	1	1									Type 2		1419.80	1419.12			37.6	38.4			31	31					179.2					
	STA.15+94.20		24	RCP	48	C	2.3	0.08	1	1									Type 2		1420.70	1420.19			29.2	30.8			0	0					57.6					
	STA.15+98.76		24	RCP	48	C	2.3	0.08	1	1									Type 2		1420.70	1420.19			29.2	30.8			0	0					57.6					
	STA. 18+46.66		29x18	RCP	56	C	2.2	0.08	1	1									Type 2		1421.67	1421.16			33.6	34.4			19	19					60.5					
	STA. 18+51.50		29x18	RCP	56	C	2.2	0.08	1	1									Type 2		1421.67	1421.16			33.6	34.4			19	19					60.5					
																																		415.3					

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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER C.07	REVISED

E. RICHLAND STREET BETWEEN INDUSTRY STREET & EXPANSION BLVD.

STORM SEWER STRUCTURES

STRUCTURE	ALIGNMENT	STATION	OFFSET	TYPE	RIM/FG ELEV	INLET ELEV	OUTLET ELEV	REMARKS
FES 1	Alignment - Prop Ditch	307+16.84	0.00'	FES (42IN)	1418.24	1414.28, 42" RCP N		(2)
FES 2	Alignment - Prop Ditch	308+58.28	0.00'	FES (24IN)	1421.83		1419.50, 24" RCP S	(2)
FES 3	Alignment - Prop Ditch	308+57.89	-4.43' L	FES (24IN)	1421.83		1419.50, 24" RCP S	(2)
INT 1	Alignment - Prop Ditch	308+04.39	0.00'	SW-505	1423.77	1415.01, 36" RCP N	1414.91, 42" RCP S	
INT 2	Alignment - Prop Ditch	308+35.39	0.00'	SW-505	1423.77	1418.65, 24" RCP N 1418.65, 24" RCP N	1417.65, 36" RCP S	
INT 3	Alignment - RICHLAND ST	1+89.26	15.50' R	SW-505	1419.78		1415.78, 18" RCP N	
INT 4	Alignment - RICHLAND ST	1+89.26	-15.50' L	SW-505	1419.79		1415.78, 18" RCP S	
MH - 1	Alignment - RICHLAND ST	5+14.34	0.00' L	SW-401 (84IN)	1424.07	1415.27, 24" RCP W 1417.49, 36" RCP N	1415.17, 36" RCP S	
MH - 2	Alignment - RICHLAND ST	1+89.26	0.00'	SW-401 (60IN)	1420.09	1415.70, 18" RCP S 1415.70, 18" RCP N	1415.60, 24" RCP E	

STORM SEWER PIPES

FROM STRUCTURE	TO STRUCTURE	PIPE DIA	Length	PIPE GRADE	START INV	END INV	REMARKS
FES 2	INT 2	24" RCP	23 LF	3.71%	1419.50	1418.65	(2, 4, 5) PAID AS STORM SEWER
FES 3	INT 2	24" RCP	23 LF	3.71%	1419.50	1418.65	(2, 4, 5) PAID AS STORM SEWER
INT 1	FES 1	42" RCP	88 LF	0.71%	1414.91	1414.28	(2, 4, 5) PAID AS STORM SEWER
INT 2	MH - 1	36" RCP	16 LF	1.00%	1417.65	1417.49	(5) PAID AS STORM SEWER
INT 3	MH - 2	18" RCP	16 LF	0.50%	1415.78	1415.70	(5) PAID AS STORM SEWER
INT 4	MH - 2	18" RCP	16 LF	0.50%	1415.78	1415.70	(5) PAID AS STORM SEWER
MH - 1	INT 1	36" RCP	16 LF	1.00%	1415.17	1415.01	(5) PAID AS STORM SEWER
MH - 2	MH - 1	24" RCP	325 LF	0.10%	1415.60	1415.27	(5) PAID AS STORM SEWER

(1) EXISTING REFERENCE INFORMATION ONLY
(2) SEE DR-121, TYPE 2 (SEALED JOINT), CONNECTED PIPE JOINTS
(3) SEE DR-102, PIPE CULVERT (COVER & CAMBER)
(4) LENGTH INCLUDES APRONS
(5) JOINTS SHALL BE GASKET.

E. RICHLAND STREET BETWEEN EXPANSION BLVD. & RADIO ROAD

STORM SEWER STRUCTURES

STRUCTURE	ALIGNMENT	STATION	OFFSET	TYPE	RIM/FG ELEV	INLET ELEV	OUTLET ELEV	REMARKS
EX MH - 1	Alignment - RICHLAND ST	11+97.52	60.55' R	Exist MH	1424.45	1415.30, 30" RCP N 1418.50, 30" RCP E 1420.30, 18" RCP NW	1415.25, 30" RCP W	(1)
EX MH - 2	Alignment - RICHLAND ST	11+99.21	-20.67' L	Exist. MH	1426.77	1421.91, 24" RCP W 1415.85, 30" RCP N 1417.60, 18" RCP NE	1416.00, 30" RCP S	(1)
FES 6	Alignment - RICHLAND ST	11+45.08	38.00' R	FES (18IN)	1425.34		1423.55, 18" RCP SE	(2)
FES 7	Alignment - RICHLAND ST	13+00.00	38.00' R	FES (30IN)	1421.88		1419.00, 30" RCP W	(2)
FES 8	Alignment - RICHLAND ST	11+41.40	-36.04' L	FES (24IN)	1425.76		1423.43, 24" RCP E	(2)
FES 9	Alignment - RICHLAND ST	13+32.21	32.83' R	FES (24IN)	1421.49	1419.15, 24" RCP NE		(2)
FES 10	Alignment - RICHLAND ST	13+71.53	-32.20' L	FES (24IN)	1422.12		1419.78, 24" RCP SW	(2)
FES 11	Alignment - RICHLAND ST	13+82.28	38.00' R	FES (30IN)	1422.21	1419.33, 30" RCP E		(2)
FES 12	Alignment - RICHLAND ST	14+58.28	38.00' R	FES (30IN)	1422.51		1419.64, 30" RCP W	(2)
FES 13	Alignment - RICHLAND ST	12+70.50	-36.00' L	FES (18IN)	1423.51		1421.72, 18" RCP E	(2)
FES 14	Alignment - RICHLAND ST	13+46.50	-36.00' L	FES (18IN)	1422.14	1420.35, 18" RCP W		(2)
FES 15	Alignment - RICHLAND ST	13+95.32	-36.00' L	FES (18IN)	1421.97	1420.18, 18" RCP E		(2)
FES 16	Alignment - RICHLAND ST	14+71.32	-36.00' L	FES (18IN)	1422.06		1420.27, 18" RCP W	(2)
FES 17	Alignment - RICHLAND ST	15+94.20	30.82' R	FES (24IN)	1422.56	1420.23, 24" RCP N		(2)
FES 18	Alignment - RICHLAND ST	15+94.20	-29.18' L	FES (24IN)	1423.00		1420.67, 24" RCP S	(2)
FES 19	Alignment - RICHLAND ST	15+98.76	30.82' R	FES (24IN)	1422.56	1420.23, 24" RCP N		(2)
FES 20	Alignment - RICHLAND ST	15+98.76	-29.18' L	FES (24IN)	1423.00		1420.67, 24" RCP S	(2)
FES 21	Alignment - RICHLAND ST	18+35.15	32.38' R	FES (24IN) Low Clearance	1423.06	1421.18, 28" N		(2)
FES 22	Alignment - RICHLAND ST	18+57.93	-31.69' L	FES (24IN) Low Clearance	1423.52		1421.64, 28" S	(2)
FES 23	Alignment - RICHLAND ST	18+39.92	32.58' R	FES (24IN) Low Clearance	1423.06	1421.19, 28" N		(2)
FES 24	Alignment - RICHLAND ST	18+62.70	-31.49' L	FES (24IN) Low Clearance	1423.53		1421.65, 28" S	(2)
FES 25	Alignment - RICHLAND ST	18+97.26	-36.00' L	FES (24IN)	1424.25	1421.91, 24" RCP E		(2)
FES 26	Alignment - RICHLAND ST	19+73.27	-36.00' L	FES (24IN)	1424.76		1422.42, 24" RCP W	(2)
FES 27	Alignment - RICHLAND ST	20+54.93	-36.00' L	FES (18IN)	1424.77	1422.97, 18" RCP E		(2)
FES 28	Alignment - RICHLAND ST	21+38.93	-36.00' L	FES (18IN)	1425.33		1423.54, 18" RCP W	(2)

STORM SEWER PIPES

FROM STRUCTURE	TO STRUCTURE	PIPE DIA	Length	PIPE GRADE	START INV	END INV	REMARKS
	EX MH - 2	18" RCP-E	18 LF	12.94%	1419.99	1417.60	(1)
	EX MH - 2	30" RCP-E	138 LF	0.85%	1417.03	1415.85	(1)
EX MH - 1		30" RCP-E	244 LF	0.13%	1415.25	1414.92	(1)
EX MH - 2	EX MH - 1	30" RCP-E	81 LF	0.86%	1416.00	1415.30	(1)
FES 6	EX MH - 1	18" RCP	57 LF	5.70%	1423.55	1420.30	(2, 4, 5) PAID AS STORM SEWER
FES 7	EX MH - 1	30" RCP	105 LF	0.48%	1419.00	1418.50	(2, 4, 5) PAID AS STORM SEWER
FES 8	EX MH - 2	24" RCP	60 LF	2.54%	1423.43	1421.91	(2, 4, 5) PAID AS STORM SEWER
FES 10	FES 9	24" RCP	76 LF	0.83%	1419.78	1419.15	(2, 3, 4) PAID AS ROADWAY PIPE
FES 12	FES 11	30" RCP	76 LF	0.40%	1419.64	1419.33	(2, 3, 4) PAID AS ENT PIPE
FES 13	FES 14	18" RCP	76 LF	1.80%	1421.72	1420.35	(2, 3, 4) PAID AS ENT PIPE
FES 16	FES 15	18" RCP	76 LF	0.12%	1420.27	1420.18	(2, 3, 4) PAID AS ENT PIPE
FES 18	FES 17	24" RCP	60 LF	0.73%	1420.67	1420.23	(2, 3, 4) PAID AS ROADWAY PIPE
FES 20	FES 19	24" RCP	60 LF	0.73%	1420.67	1420.23	(2, 3, 4) PAID AS ROADWAY PIPE
FES 22	FES 21	29"x18" RCP	68 LF	0.68%	1421.64	1421.18	(2, 3, 4) PAID AS ROADWAY PIPE
FES 24	FES 23	29"x18" RCP	68 LF	0.68%	1421.65	1421.19	(2, 3, 4) PAID AS ROADWAY PIPE
FES 26	FES 25	24" RCP	76 LF	0.67%	1422.42	1421.91	(2, 3, 4, 6) PAID AS ENT PIPE
FES 28	FES 27	18" RCP	84 LF	0.67%	1423.54	1422.97	(2, 3, 4, 6) PAID AS ENT PIPE

(1) EXISTING REFERENCE INFORMATION ONLY
(2) SEE DR-121, TYPE 2 (SEALED JOINT), CONNECTED PIPE JOINTS
(3) SEE DR-102, PIPE CULVERT (COVER & CAMBER)
(4) LENGTH INCLUDES APRONS
(5) JOINTS SHALL BE GASKET
(6) SALVAGE EXISTING CULVERTS AND APRONS TO PROPERTY OWNER.

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LIST OF SUBDRAIN WORK

Possible Standards: DR-121, DR-201, DR-203, DR-301, DR-302, DR-303, DR-305 and DR-306. Possible Detail: 500-10.

* Not a bid item ** DR-303 Shall be the connection to Intake

This Data Entry Sheet fills Tab 104-5C effective 10-17-17

Location					Pipe			Aprons		Outlets				Connected Pipe Joints*		Trench Drain	Granular Material	Porous Backfill*	Class "A" Crushed Stone*	SUBDRAIN CLEANOUT	Remarks
No.	Station to Station		Side	Type of Installation	Concrete, C.M.P., or Plastic	Dia.	Length	DR-201	DR-203	500-10	DR-305		DR-303 **	DR-121			Blanket				
			LT/RT	DR-301, DR-302, DR-303		IN	LF	No.	No.	No.	Type	No.	No.	Type	No.	LF	CY	CY	CY	No.	
1	0+59.38	1+91.26	LT	DR-303, Type 7A	Plastic	6.0	132						1					15.0			CONNECT OUTLET TO EXISTING SUBDRAIN CLEANOUT
2	1+91.26	5+14.53	LT	DR-303, Type 7A	Plastic	6.0	323						2					36.2			
3	5+14.53	8+15.42	LT	DR-303, Type 7A	Plastic	6.0	352						1					39.5		1	PORTION OF SUBDRAIN FOLLOWS CURVATURE OF INTERSECTION RETURN
4	8+41.62	9+53.52	LT	DR-303, Type 7A	Plastic	6.0	178											20.3		2	PORTION OF SUBDRAIN FOLLOWS CURVATURE OF INTERSECTION RETURN
5	+59.42	1+91.26	RT	DR-303, Type 7A	Plastic	6.0	132						1					15.0			CONNECT OUTLET TO EXISTING SUBDRAIN CLEANOUT
6	1+91.26	5+14.93	RT	DR-303, Type 7A	Plastic	6.0	324						2					36.9			
7	5+14.93	8+90.25	RT	DR-303, Type 7A	Plastic	6.0	406						1					46.1		1	PORTION OF SUBDRAIN FOLLOWS CURVATURE OF INTERSECTION RETURN
9	9+18.64	9+77.72	RT	DR-303, Type 7A	Plastic	6.0	100											11.4		1	PORTION OF SUBDRAIN FOLLOWS CURVATURE OF INTERSECTION RETURN
10	9+18.64	9+53.04	RT	DR-303, Type 7A	Plastic	6.0	35						1					4.0			OUTLET IS TO EXISTING STORM SEWER MANHOLE
						TOTAL	1982						9					224.5			

ADJUSTMENT OF FIXTURES

This Data Entry Sheet fills Tab 104-10 effective 08-01-08

No.	Location Station	Type of Fixture	Adjustment
1	9+90.27, 28.66 R	FIRE HYDRANT	SEE WATER MAIN CONSTRUCTION TABLE, HYDRANT FLANGE ELEV. COLUMN
2	13+84, 33.45 R	FIRE HYDRANT	SEE WATER MAIN CONSTRUCTION TABLE, HYDRANT FLANGE ELEV. COLUMN
3	17+59.02, 26.77 R	FIRE HYDRANT	SEE WATER MAIN CONSTRUCTION TABLE, HYDRANT FLANGE ELEV. COLUMN
4	21+50.32, 26.30 R	FIRE HYDRANT	SEE WATER MAIN CONSTRUCTION TABLE, HYDRANT FLANGE ELEV. COLUMN
5	24+98.50, 22.99 R	FIRE HYDRANT	SEE WATER MAIN CONSTRUCTION TABLE, HYDRANT FLANGE ELEV. COLUMN
6	11+75.69, 53.58 L	SAN MH CASTING	SEE 'MSA' SHEETS FOR LOCATION AND BID ITEM 'MANHOLE ADJUSTMENT, MINOR'

STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.

This Data Entry Sheet fills Tab 105-4 effective 10-18-11

Number	Date	Title
DR-102	04-21-15	PIPE CULVERT (COVER AND CAMBER)
DR-121	10-17-17	CONNECTED PIPE JOINTS
DR-201	04-21-20	CONCRETE APRONS
DR-202	04-21-20	LOW CLEARANCE CONCRETE PIPE APRONS
DR-303	10-17-17	SUBDRAINS (LONGITUDINAL)
EC-101	04-19-16	SPECIAL DITCH CONTROL, WOOD EXCELSIOR MAT
EC-103	04-21-15	WOOD EXCELSIOR MAT FOR SLOPE CONTROL
EC-201	04-20-21	SILT FENCE
EC-204	10-19-21	PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICE
EC-303	10-19-21	STABILIZED CONSTRUCTION ENTRANCE
PR-103	04-21-20	FULL DEPTH PCC PATCH WITH DOWELS
PR-107	10-16-18	PARTIAL DEPTH PCC FINISH PATCHES
PV-10	04-21-20	RUMBLE STRIP PANEL FOR INTERSECTION APPROACH
PV-101	04-19-22	JOINTS
PV-102	04-21-20	PCC CURB DETAILS
PV-103	04-19-22	MANHOLE BOXOUTS IN PCC PAVEMENT
SI-101	04-19-16	LOCATIONS - TYPE 'A' SIGNS
SW-101	04-17-18	TRENCH BEDDING AND BACKFILL ZONES
SW-102	04-20-21	RIGID GRAVITY PIPE TRENCH BEDDING
SW-103	04-20-21	FLEXIBLE GRAVITY PIPE TRENCH BEDDING
SW-104	04-20-21	PRESSURE PIPE TRENCH BEDDING
SW-201	04-21-20	SANITARY SEWER SERVICE STUB
SW-203	04-17-18	SANITARY SEWER CLEANOUT
SW-301	04-20-21	CIRCULAR SANITARY SEWER MANHOLE
SW-401	04-20-21	CIRCULAR STORM SEWER MANHOLE
SW-505	04-21-20	DOUBLE GRATE INTAKE
SW-601	04-21-20	CASTINGS FOR SANITARY SEWER MANHOLES
SW-602	04-21-20	CASTINGS FOR STORM SEWER MANHOLES
SW-603	10-16-18	CASTINGS FOR GRATE INTAKES
TC-1	10-15-19	WORK NOT AFFECTING TRAFFIC (TWO-LANE OR MULTI-LANE)
TC-212	04-21-20	SPOT LOCATION LANE CLOSURE WITH FLAGGERS
TC-252	04-21-20	ROUTES CLOSED TO TRAFFIC
WM-101	10-18-16	THRUST BLOCKS
WM-102	10-18-16	TRACER SYSTEM
WM-201	04-20-21	FIRE HYDRANT ASSEMBLY
570-7	10-19-21	GRATE INTAKE SEDIMENT FILTER BAG

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REMOVAL OF PAVEMENT

Refer to Tabulation 102-5

* Not a Bid Item

This Data Entry Sheet fills Tab 110-1 effective 04-16-13

Begin Station	End Station	Side	Pavement Type	Length	Width	Area	Area	Saw Cut*	Remarks
				FT	FT	FT	SY	LF	
+49.75	9+57.52	BOTH	P.C.C.	907.77	VARIABLE	33394.51	3710.5	107.7	INCLUDES INTERSECTION OF EXPANSION BLVD & E. RICHLAND ST.
				0		0			
				0		0			
				0		0			
				0		0			
				0		0			

REMOVAL OF CONCRETE DRIVES

* Not a Bid Item

This Data Entry Sheet fills Tab 110-08 effective 04-17-18

Location		Length	Width	Area	Area	Saw Cut*	Remarks
Station	Side	FT	FT	SF	SY	LF	
1+73.60	LT	247.8	4.0	991	110.1	255.8	SEE PLAN SHTS 'R'
3+81.77	RT			583	64.8	38.6	SEE PLAN SHTS 'R'
13+07.02	LT			241	26.8	13.7	SEE PLAN SHTS 'R'
14+33.92	LT			661	73.5	37.5	SEE PLAN SHTS 'R'
15+41.26	LT			382	42.5	32.2	SEE PLAN SHTS 'R'
16+74.80	LT			788	87.5	46.8	SEE PLAN SHTS 'R'
19+36.88	LT			320	35.6	61.9	SEE PLAN SHTS 'R'
20+97.65	LT			824	91.6	47.7	SEE PLAN SHTS 'R'
				0			
				0			

DELIVERY AND STOCKPILING

This Data Entry Sheet fills Tab 110-13 effective 04-20-10

Item Description	Quantity	Units	Delivery Location	Contact Name & Number	Remarks
REMOVE AND REINSTALL SIGNS	22	EACH	433 VILAS ROAD STORM LAKE, IA. 50588	KIM WOLTMAN, PH. (712)732-8029	
SALVAGE FIRE HYDRANT	2	EACH	6011 HWY 110 STORM LAKE, IA 50588	SHANE STEWART, PH. (712)732-8031	
SALVAGE AIR RELEASE VALVE	1	EACH	6011 HWY 110 STORM LAKE, IA 50588	SHANE STEWART, PH. (712)732-8031	

SANITARY, STORM SEWER AND WATER ABANDONMENT OR REMOVAL

* Not a bid item

This Data Entry Sheet fills Tab 110-14 effective 04-16-13

Location/Description	Sanitary, Storm Sewer, Water	Abandonment, Plug Only or Abandonment, Plug and Fill or Removal	Length of Pipe		Fill Material*	Remarks
			≤ 36 inch diameter	> 36 inch diameter	Flowable Mortar or CLSM	
			LF	LF	CY	
EXPANSION BLVD.	SANITARY	REMOVAL	250			
E. RICHLAND STREET	STORM SEWER	REMOVAL	100			
E. RICHLAND STREET	WATER	REMOVAL	917			
E. RICHLAND STREET, STA. 5+60.83	STORM SEWER	REMOVAL				REMOVE MANHOLE AND APRONS
E. RICHLAND STREET, STA. 8+48.3, 54' LT	SANITARY	REMOVAL				REMOVE MANHOLE
E. RICHLAND STREET, STA. 8+86.24, 34.74' RT	WATER	REMOVAL				REMOVE AIR RELEASE MANHOLE
E. RICHLAND STREET, STA. 12+13.02 32.93' LT	STORM SEWER	REMOVAL				REMOVE AREA INTAKE
E. RICHLAND STREET, STA. 13+80.93, 38.60' LT	STORM SEWER	REMOVAL				REMOVE AREA INTAKE

REMOVAL OF INTAKES AND UTILITY ACCESSES

This Data Entry Sheet fills Tab 110-15 effective 04-16-13

No.	Location/Description	Type	Remarks
1	2+14.27, 21.9' RT, E. RICHLAND STREET	WATER	FIRE HYDRANT, SALVAGE TO CITY
2	5+60.8, 27.0' RT, E. RICHLAND STREET	STORM	STORM MANHOLE
3	6+00.3, 30.0' RT, E. RICHLAND STREET	WATER	FIRE HYDRANT, SALVAGE TO CITY
4	7+84.4, 92.6' LT, E. RICHLAND STREET	CULVERT	DRIVEWAY CULVERT (40 LF)
5	8+86.2, 34.7' RT, E. RICHLAND STREET	WATER	WATER MAIN MANHOLE, W/AIR RELEASE VALVE (SALVAGE TO CITY)
6	11+77.1, 38.2' LT, E. RICHLAND STREET	CULVERT	DRIVEWAY CULVERT (45 LF)
7	12+13, 32.9' LT, E. RICHLAND STREET	INTAKES	AREA INTAKE
8	13+05.8, 34.3' LT, E. RICHLAND STREET	CULVERT	DRIVEWAY CULVERT (64 LF)
9	13+77.7, 27.4' RT TO 13+80.5, 27.0' LT, E. RICHLAND STREET	CULVERT	ROADWAY CULVERT (54.5 LF)
10	13+80.9, 38.6' LT, E. RICHLAND STREET	INTAKES	AREA INTAKE
11	14+21.8, 39.7' RT, E. RICHLAND STREET	CULVERT	FIELD ENTRANCE (49 LF)
12	14+35.1, 40', LT, E. RICHLAND STREET	CULVERT	DRIVEWAY CULVERTS (2), (103.3 LF TOTAL)
13	15+41.2, 40.2' LT, E. RICHLAND STREET	CULVERT	DRIVEWAY CULVERT (49 LF)
14	18+12.3, 45.7' LT, E. RICHLAND STREET	CULVERT	ROADWAY CULVERT (55 LF)
15	19+35.3, 40.9' LT, E. RICHLAND STREET	CULVERT	DRIVEWAY CULVERT (52 LF) SALVAGE TO PROPERTY OWNER
16	20+98.5, 44.9' LT, E. RICHLAND STREET	CULVERT	DRIVEWAY CULVERT (56 LF) SALVAGE TO PROPERTY OWNER

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SHOULDERS

Lane(s) to which the shoulder is adjacent.
Bid Item
Applies only for Paved Shoulders constructed on project with existing granular shoulders.
Does not include shrink.

Calculations assume a HMA unit weight (lbs/cf) of 0 , a Special Backfill unit weight (lbs/cf) of 140 , and a Granular Shoulder unit weight (lbs/cf) of 140 .

Location					Quantities																									
Road Identification	Direction Of Traffic	Station to Station		Side	Paved Start	Paved End	Paved Width	Granular Start	Granular End	Granular Width	Length	Class 13 Excavation	HMA Cross Section Area	Hot Mix Asphalt		Binder	Paved Shoulder	Reinforced Paved Shoulder	Special Backfill Cross Section Area (HMA)	Special Backfill Cross Section Area (PCC)	Special Backfill				Modified Subbase	Granular Shoulder Cross Section Area	Granular Shoulder		Earth Shoulder Construction Cross Section Area (HMA)	Earth Shoulder Construction Cross Section Area (PCC)	Earth Shoulder Construction Alternates			Remarks
																					HMA Alternate		PCC Alternate										
																														STA	HMA	PCC	
					FT	FT	FT	FT	FT	FT	FT	CY	SF	TON	TON/STA	TONS	SY	SY	SF	SF	TON	TON/STA	TON	TON/STA	CY	SF	TON	TON/STA	SF	SF		CY	CY	
E. RICHLAND ST.		5+75.00	7+78.57	RT				4.0	4.0	4.0	203.6																			2.0			
E. RICHLAND ST.		7+78.57	8+22.15	RT				4.0	4.0	4.0	43.6																			0.4			
E. RICHLAND ST.		9+38.61	9+77.52	RT				4.0	4.0	4.0	38.9																			0.4			
E. RICHLAND ST.		5+75.00	7+66.07	LT				4.0	4.0	4.0	191.1																			1.9			
E. RICHLAND ST.		7+66.07	8+00.48	LT				4.0	4.0	4.0	34.4																			0.3			
E. RICHLAND ST.		9+24.74	9+57.52	LT				4.0	4.0	4.0	32.8																			0.3			
EXPANSION BLVD.		+65.19	1+11.47	RT				4.0	4.0	4.0	46.3																			0.5			
EXPANSION BLVD.		1+53.97	2+42.80	RT				4.0	4.0	4.0	88.8																			0.9			
EXPANSION BLVD.		+65.20	1+06.32	LT				4.0	4.0	4.0	41.1																			0.4			
EXPANSION BLVD.		1+06.32	1+62.53	LT				4.0	4.0	4.0	56.2																			0.6			
EXPANSION BLVD.		2+01.22	2+39.50	LT				4.0	4.0	4.0	38.3																			0.4			

RUMBLE STRIP PANELS

Refer to Standard Road Plan PV-10.

This Data Entry Sheet fills Tab 112-7 effective 10-19-10

Location			Pavement		Remarks
Road Ident.	Station	Side	New	Existing	
E. RICHLAND ST.	16+72.81	RT	xlCenter		SEE SHT D.03

EXISTING SIGNS TO BE REMOVED

This Data Entry Sheet fills Tab 190-62 effective 10-15-13

SIGN NUMBER OR DESCRIPTION	LOCATION STATION	SIDE	TYPE 'A' SIGN ASSEMBLY	TYPE 'B' SIGN ASSEMBLY	REMOVE & REINSTALL EXISTING SIGNS	APPLICABLE SIGNING NOTES	REMARKS
			EACH	EACH	EACH		
STOP	1+46	34.95 RT			1		
NO PARKING	2+28	18.04 RT			1		
NO PARKING	4+19	18.29 LT			1		
NO PARKING	6+56	24.08 LT			1		
NO PARKING	6+64	23.97 RT			1		
STOP	8+20	42.91 LT			1		
STREET	8+86	47.21 LT			1		
STOP	9+21	34.89 RT			1		
NO PARKING	9+95	23.40 LT			1		
NO PARKING	10+77	23.60 RT			1		
NO PARKING	10+95	23.75 LT			1		
STOP	11+56	44.21 LT			1		
STREET	12+05	42.66 LT			1		
NO PARKING	13+34	24.72 LT			1		
NO PARKING	14+78	23.91 RT			1		
NO PARKING	14+82	24.86 LT			1		
STOP	17+83	39.49 LT			1		
STREET	18+32	43.54 LT			1		
NO PARKING	22+78	23.95 RT			1		
SPEED	23+34	23.72 LT			1		
NO PARKING	24+78	23.95 RT			1		
STOP	26+20	23.87 RT			1		
				TOTAL	22		

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WATERMAIN CONSTRUCTION

STATION	OFFSET	4" INSULATION (3.56 SY)	6" TEMPORARY BLOWOFF	6" GATE VALVE & BOX	12" GATE VALVE & BOX	6" INSERTION VALVE	12" INSERTION VALVE	HYDRANT ASSEMBLY	MANHOLE W/AIR RELEASE VALVE	HYDRANT FLANGE ELEVATION	6"x11.25° BEND (31 LB)	6"x45° BEND (38 LB)	6" SLEEVE (40 LB)	12"x6" TAPPING SLEEVE (160 LB)	12"x45° BEND (84 LB)	12"x22.30° BEND (94 LB)	12"x90° BEND (134 LB)	12" SLEEVE (94 LB)	8"x6" REDUCER (41 LB)	12"x6" REDUCER (65 LB)	12"X6" TEE (126 LB)	12"X8" TEE (145 LB)	12"X12" TEE (184 LB)	6" THREADED PLUG (16 LB)	6" WATERMAIN (1)	8" WATERMAIN (1)	12" WATERMAIN (1)	CONNECT TO EXIST WATERMAIN	NOTES
		(SY)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)		(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(LF)	(LF)	(LF)	(EACH)	
02+05.21	26.25 R					1																			4				
02+08.67	26.19 R												1							1								1	
02+14.61	26.50 R																						1				6		
02+09.11	18.68 R						1																						
02+14.61	18.54 R																1	1									6	1	
02+14.61	18.54 R																												
02+14.61	26.50 R																										8		
02+20.06	26.50 R				1																						5		
02+24.73	26.50 R							1		1421.0											1						5		
04+86.84	26.49 R															1											262		
05+06.33	34.62 R															1											19		
05+20.02	34.66 R	7.11																											
06+00.78	34.87 R							1		1423.3											1						94		
08+18.28	35.45 R																					1					218		
08+52.64	35.54 R																				1						34		
08+86.23	35.62 R								1																		34		(1, 3)
9+18.13	35.69 R				1																						32		
09+22.53	35.70 R														1												4		
09+25.27	32.97 R		1																								3		
09+27.50	30.74 R														1			1									2	1	
08+18.28	35.45 R																												
08+18.51	54.52 L																		1							90			
08+18.52	56.59 L			1																					2				
08+18.53	59.35 L		1																						3				
08+18.54	62.37 L											1	1												3			1	
08+06.33	78.22 L					1																							
08+52.64	35.54 R																												
08+52.63	40.54 R											1													5				
08+67.54	55.53 R										1														15				
08+69.61	59.70 R			1									1												4			1	
08+76.66	73.40 R					1																							
08+65.21	50.82 R																							1					
11+37.91	33.07 R													1														1	
11+37.91	28.07 R			1																					5				
11+39.05	35.30 L											1													63				
11+54.30	50.49 L											1	1												15			1	
11+52.73	48.52 L		1																										
11+54.02	56.71 L					1																							
11+54.20	43.82 L																							1					
09+90.27	28.66 R									1427.20																			(2)
13+84.00	33.45 R									1421.80																			(2)
17+59.02	26.77 R									1423.50																			(2)
21+50.32	26.30 R									1425.20																			(2)
24+98.50	22.99 R									1427.60																			(2)
	TOTALS	7	3	3	2	4	1	2			1	4	4	1	2	2	1	2	1	1	3	1	1	2	119	90	732	7	
	TOTAL WEIGHTS:										31	152	160	160	168	188	134	188	41	65	378	145	184	32			FITTINGS WEIGHT= 2026LB		

(1) TRENCH FOUNDATION TO BE USED AS NEEDED. (2) ADJUST EXISTING FIRE HYDRANT TO FINISH SURFACE ELEVATION. (3) USE MODIFIED SW-301, 48" DIA MANHOLE FOR AIR RELEASE VALVE. SEE SHEET B.03 FOR DETAIL.

WATER SERVICES

STATION OFFSET (FROM CENTERLINE)	ADDRESS	2" COPPER SERVICE LF	2" CORP STOP, CURB STOP, AND BOX EA	NOTES
2+34.85, 26.50' R	E. RICHLAND STREET	4	1	
3+33.46, 26.49' R	E. RICHLAND STREET	4	1	
4+21.34, 26.49' R	E. RICHLAND STREET	4	1	
	TOTALS	12	3	

SANITARY SEWER STRUCTURES

STRUCTURE	ALIGNMENT	STATION	OFFSET	TYPE	RIM ELEV	INLET ELEV	OUTLET ELEV	REMARKS
CONN 1	Alignment - Expansion Blvd	0+65.20	-0.18' L	Fernco	1410.95	1408.77, 24" NW	1408.77, 24" PVC SE	
CONN 2	Alignment - Expansion Blvd	2+40.40	-5.45' L	Fernco	1410.75	1408.57, 24" PVC NW	1408.57, 24" SE	
CONN 3	Alignment - Expansion Blvd	0+75.61	30.21' R	Fernco 8"x4"	1410.05		1409.31, 8" PVC E	
CONN 4	Alignment - Expansion Blvd	0+91.42	-26.42' L	Fernco 6"x4"	1422.15		1421.58, 6" PVC SW	
CONN 5	Alignment - Expansion Blvd	1+08.35	-25.15' L	Fernco	1410.57		1409.82, 8" PVC W	
MH - 1	Alignment - Expansion Blvd	0+98.12	-2.34' L	SW-301-CC 48	1427.92	1408.75, 24" PVC NW 1409.72, 8" PVC E 1409.16, 8" PVC W	1408.71, 24" PVC SE	
WYE 24x6	Alignment - Expansion Blvd	0+92.98	-1.25' L	Wye W/Riser	1422.24	1408.75, 24" PVC NW 1421.06, 6" PVC NE	1408.75, 24" PVC SE	

SANITARY SEWER PIPES

FROM STRUCTURE	TO STRUCTURE	PIPE DIA	Length	PIPE GRADE	START INV	END INV	REMARKS
[redacted]							
CONN 1	WYE 24x6	24" PVC	28 LF	0.05%	1408.77	1408.75	
[redacted]							
CONN 3	MH - 1	8" PVC	37 LF	0.40%	1409.31	1409.16	(1)
CONN 4	WYE 24x6	6" PVC	25 LF	2.06%	1421.58	1421.06	(1)
CONN 5	MH - 1	8" PVC	25 LF	0.40%	1409.82	1409.72	(1)
MH - 1	CONN 2	24" PVC	142 LF	0.10%	1408.71	1408.57	
WYE 24x6	MH - 1	24" PVC	5 LF	0.08%	1408.75	1408.75	

(1) FIELD VERIFY EXISTING SANITARY PIPE GRADE AND ELEVATION

Paved Drives

Location		Address	Back of Curb Length	Length at tie in	Width	Area	Special Compaction	Modified Subbase	PCC Area	Remarks
Station	Side		FT	FT	FT	SF	SY	CY	SY	
2+25	LT	E. RICHLAND ST.	350.3	350.3	4.0	1401	156	26	155.7	
2+66	RT	E. RICHLAND ST.	50.0	45.9	4.0	192	21	4	21.3	
3+83	RT	E. RICHLAND ST.	41.0	38.6	14.8	590	66	11	65.6	
						TOTALS:	243	40	243	

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BEG. DRIVE
STA:0+49.73
15.50' L

CL INDUSTRY STREET
STA:1+16.26
0.00'

CL DRIVE
STA:2+24.86
15.50' L

350.3'

END DRIVE
STA:4+00.00
15.50' L

E. RICHLAND ST.
(CONCRETE)

BEGIN PAVING
STA. 0+49.8

BEG. RADIUS
STA:0+50.76
15.50' R
STA:0+78.80
24.29' R, END RADIUS
MATCH TO EXISTING

INDUSTRY ST.
(GRAVEL)

STA:1+53.63
24.17' R, BEG. RADIUS
MATCH TO EXISTING

BEG. DRIVE
STA:2+41.02
15.50' R

END RADIUS
STA:1+81.76
15.50' R

CL DRIVE
STA:2+65.76
19.50' R

END DRIVE
STA:2+91.02
15.50' R

BEG. DRIVE
STA:3+62.30
15.50' R

CL DRIVE
STA:3+82.80
15.50' R

END DRIVE
STA:4+03.30
15.50' R

END FULL C&G,
BEG. 5' CURB TAPER
TO NO CURB
STA:5+70.00
15.50' L

END C&G
BEG. 1:25 TAPER
STA:5+75.00
15.50' L

END TAPER
STA:6+62.50
12.00' L

MATCH TO EXIST. CONC.
STA:0+65.19
12.10' R

STA:0+69.38
12.06' R

BEG. RADIUS
STA:8+00.48
17.94' L

STA:7+66.07
14.50' L

STA:1+11.47
56.07' R
END RADIUS

STA:7+66.07
12.00' L

END FULL C&G,
BEG. 5' CURB TAPER
TO NO CURB
STA:5+70.00
15.50' R

END C&G
BEG. 1:25 TAPER
STA:5+75.00
15.50' R

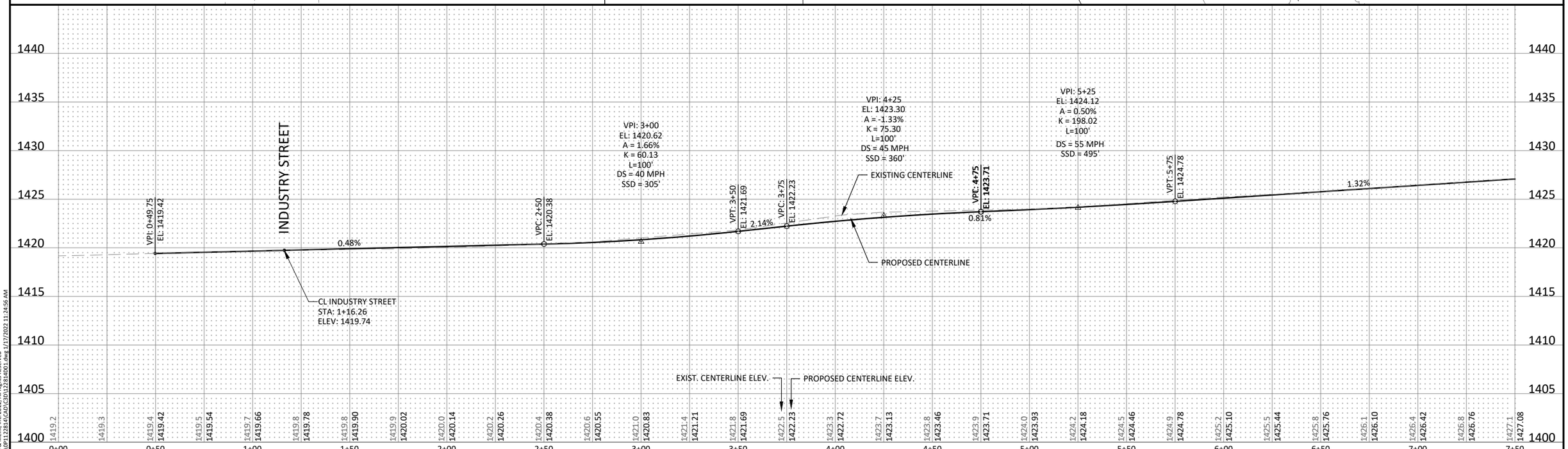
END TAPER
STA:6+62.50
12.00' R

STA:7+78.57
12.00' R

STA:7+78.57
14.50' R

HORZ. SCALE 0 25 50 FEET

VERT. SCALE 0 5 10 FEET



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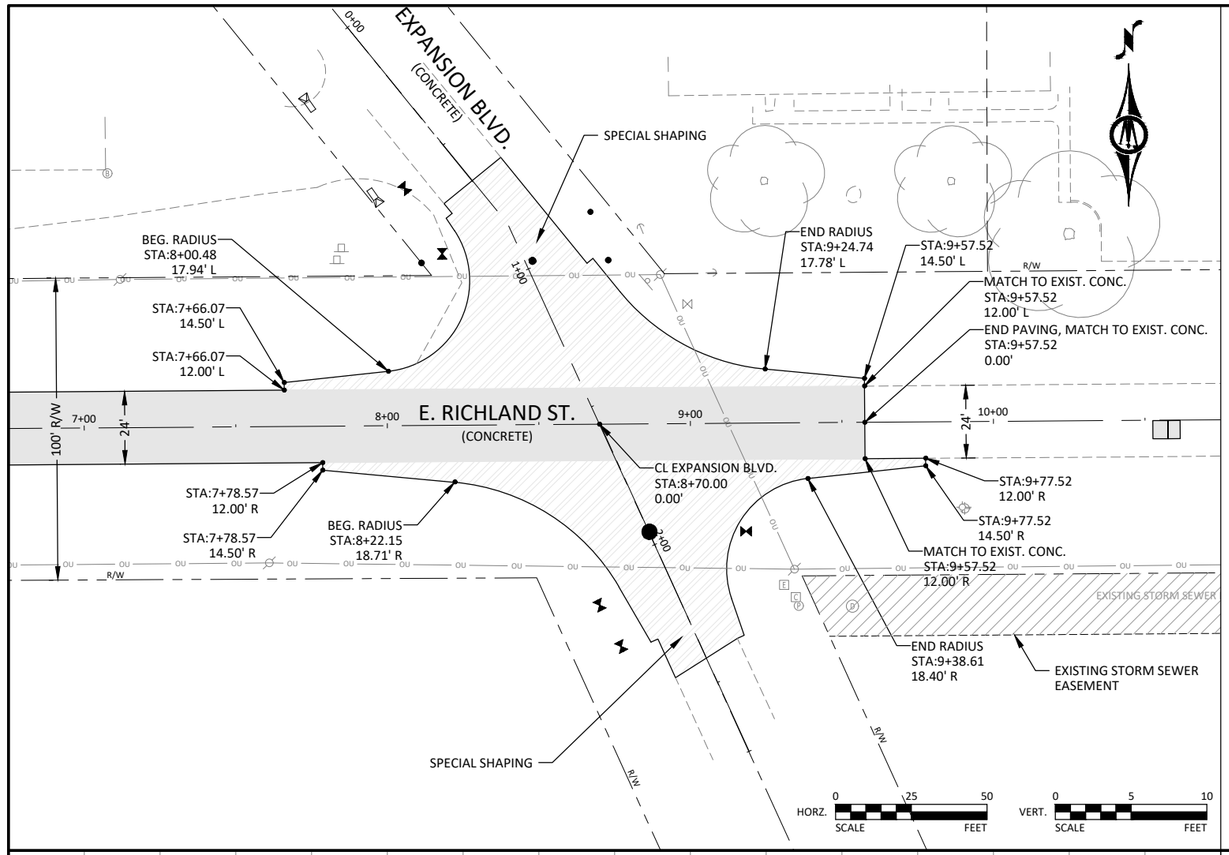
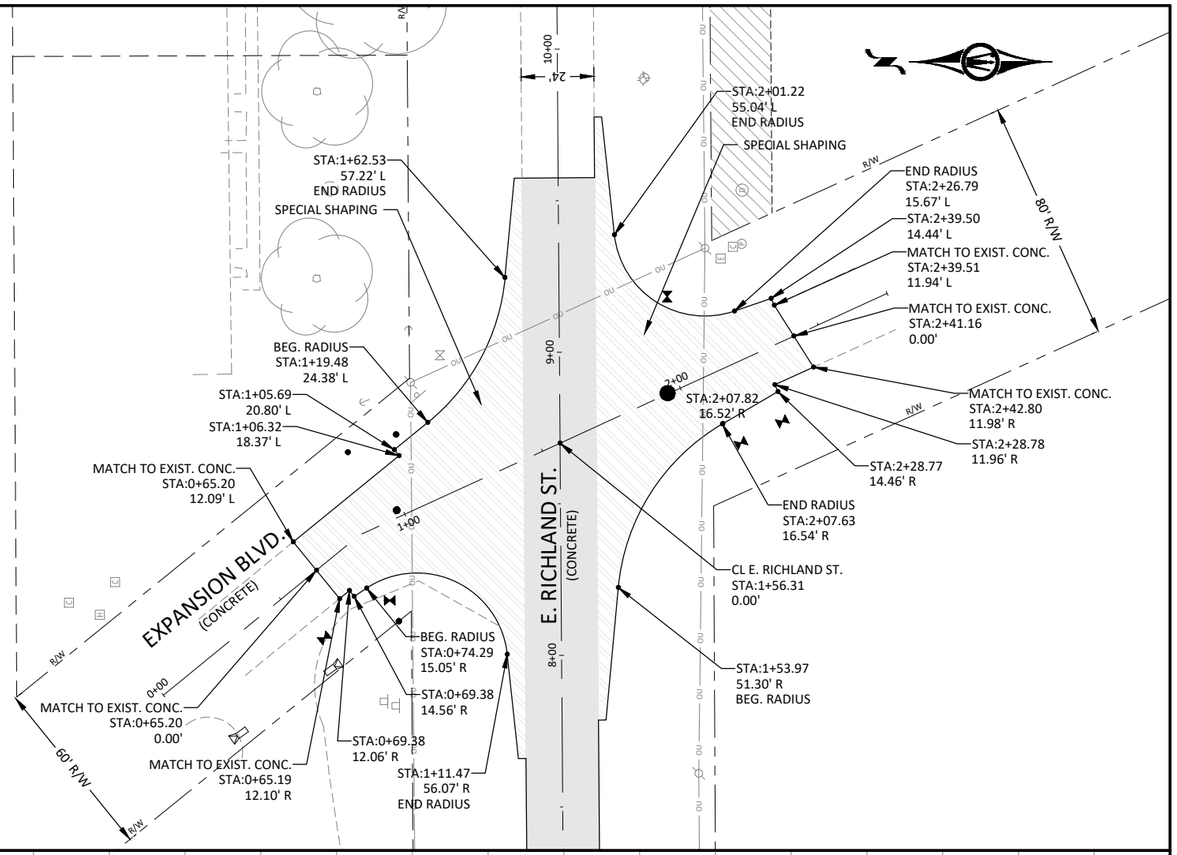
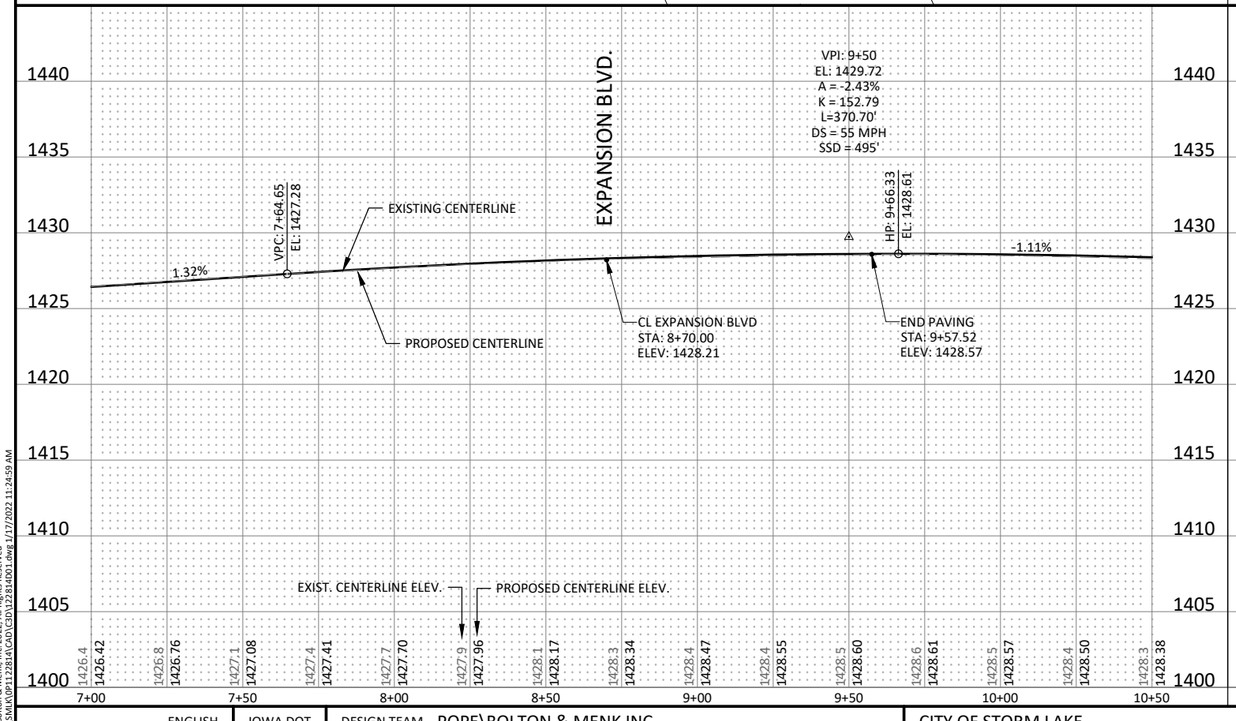
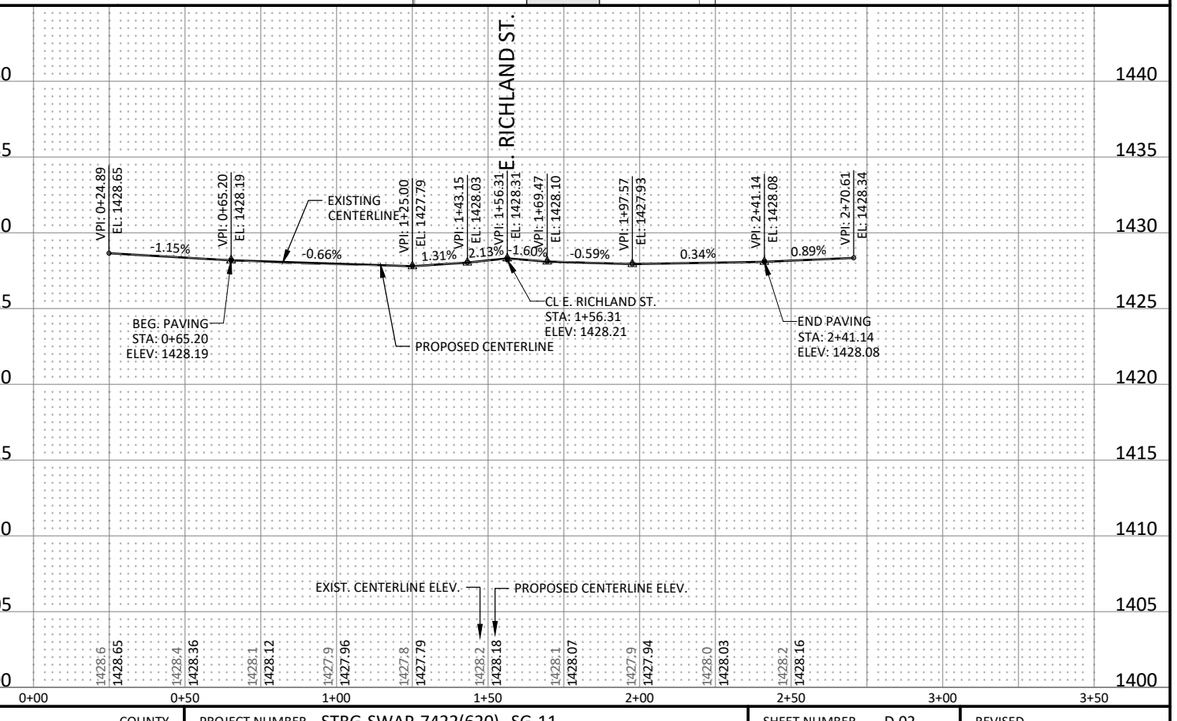
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER D.01	REVISED









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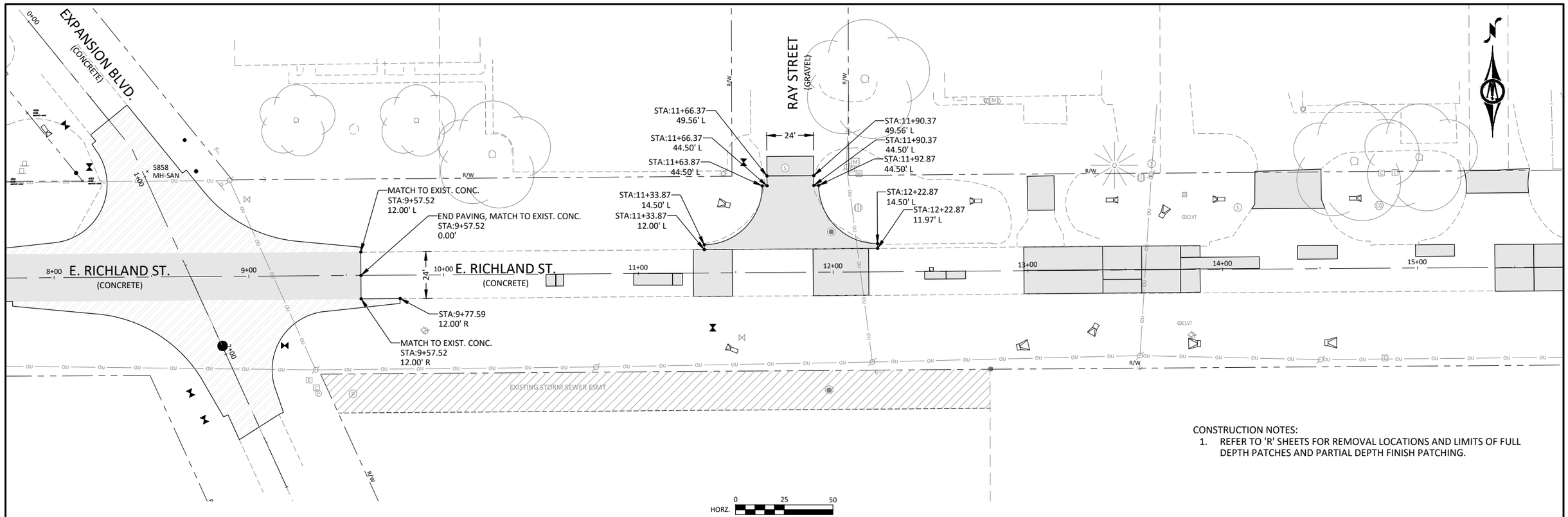
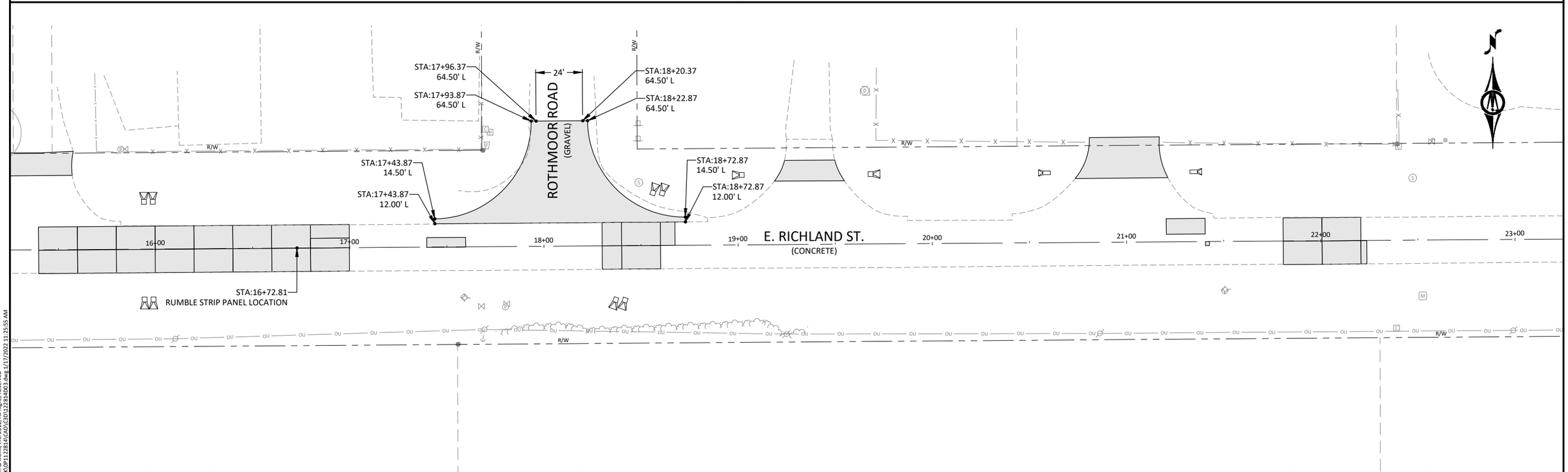
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER D.02	REVISED



CONSTRUCTION NOTES:

1. REFER TO 'R' SHEETS FOR REMOVAL LOCATIONS AND LIMITS OF FULL DEPTH PATCHES AND PARTIAL DEPTH FINISH PATCHING.



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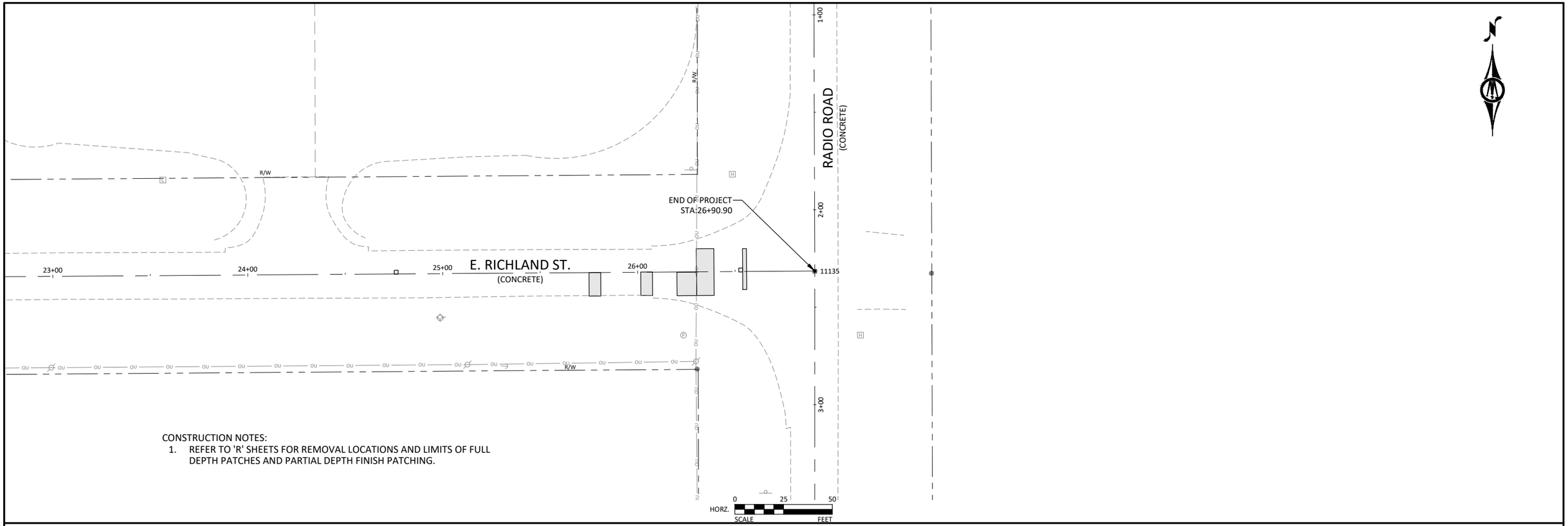
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER D.03	REVISED



CONSTRUCTION NOTES:

1. REFER TO 'R' SHEETS FOR REMOVAL LOCATIONS AND LIMITS OF FULL DEPTH PATCHES AND PARTIAL DEPTH FINISH PATCHING.

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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER D.04	REVISED

STA:301+43.63
BEGING OPEN DITCH GRADING

STA:307+16.84
END OPEN DITCH GRADING

CLASS 'E' RIP RAP
(SEE SHT RR.05)

EXIST. 30" APRON,
OUTLET FL = 1413.17

PROTECT UTILITY POLE

PROTECT UTILITY POLE

PROTECT UTILITY POLE

100' ABANDONED RR R/W

Bil Mar Foods Of Iowa Inc
315 VILAS
PIN: 1402401004

Howie Paul E, Howie Eileen E
1520 RICHLAND
PIN: 1402401003

Howie Paul E, Howie Eileen E
1520 RICHLAND
PIN: 1402401003

Wireless Network Mgmt Inc
308 EXPANSION
PIN: 1402401017

Miller Construction Properties LLC
316 EXPANSION
PIN: 1402403003

Storm Lake City Of
RICHLAND
PIN: 1402254002

Miller Construction & Company
320 EXPANSION
PIN: 1402403005

E. RICHLAND ST.

HORZ. SCALE 0 25 50 FEET

VERT. SCALE 0 5 10 FEET

EXISTING SURFACE PROFILE

PROPOSED OPEN DITCH PROFILE

VPI: 300+43.63
EL: 1413.54

BEGIN OPEN DITCH GRADING

0.11%

VPI: 307+22.94
EL: 1418.82

6.42%

VPI: 307+49.10
EL: 1420.51

2.42%

END OPEN DITCH GRADING

VPI: 307+16.84
EL: 1414.28

42" STORM SEWER OUTLET
(SEE 'M' SHEETS)

EXIST. SURFACE ELEV.

PROPOSED OPEN DITCH ELEV.

300+00	300+50	301+00	301+50	302+00	302+50	303+00	303+50	304+00	304+50	305+00	305+50	306+00	306+50	307+00	307+50
1413.5	1413.6	1413.9	1413.5	1414.1	1414.3	1414.5	1414.8	1414.7	1414.9	1415.0	1415.2	1415.7	1415.9	1416.0	1416.2	1416.6	1416.8	1417.0	1417.1	1417.3	1417.6	1417.9	1418.1	1418.4	1418.6	1418.9	1420.6
1413.4	1413.54	1413.57	1413.60	1413.63	1413.66	1413.68	1413.71	1413.74	1413.77	1413.79	1413.82	1413.85	1413.88	1413.91	1413.93	1413.96	1413.99	1414.02	1414.04	1414.07	1414.10	1414.13	1414.16	1414.18	1414.21	1414.24	1414.27	1418.96

ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER ED.01	REVISED

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Storm Lake City Of
RICHLAND
PIN: 1402254002

STA. 0+00 BEGIN ROADWAY DITCH GRADING (SEE PROFILE BELOW)

G F Land Partnership
412 EXPANSION
PIN: 1402254008

NORTH ROADWAY DITCH PROPOSED GRADING SEE PROFILE BELOW

STA:3+69.63
END ROADWAY DITCH GRADING
(SEE PROFILE BELOW)

EXPANSION BLVD.

Buena Vista County
1709 & 1711 RICHLAND
PIN: 1402257006

5858
MH-SAN

E. RICHLAND STREET

EXISTING STORM SEWER ESMT

Howie Paul E, Howie Eileen E
1516 RICHLAND
PIN: 1402401015

Howie Paul E, Howie Eileen E
1520 RICHLAND
PIN: 1402401003

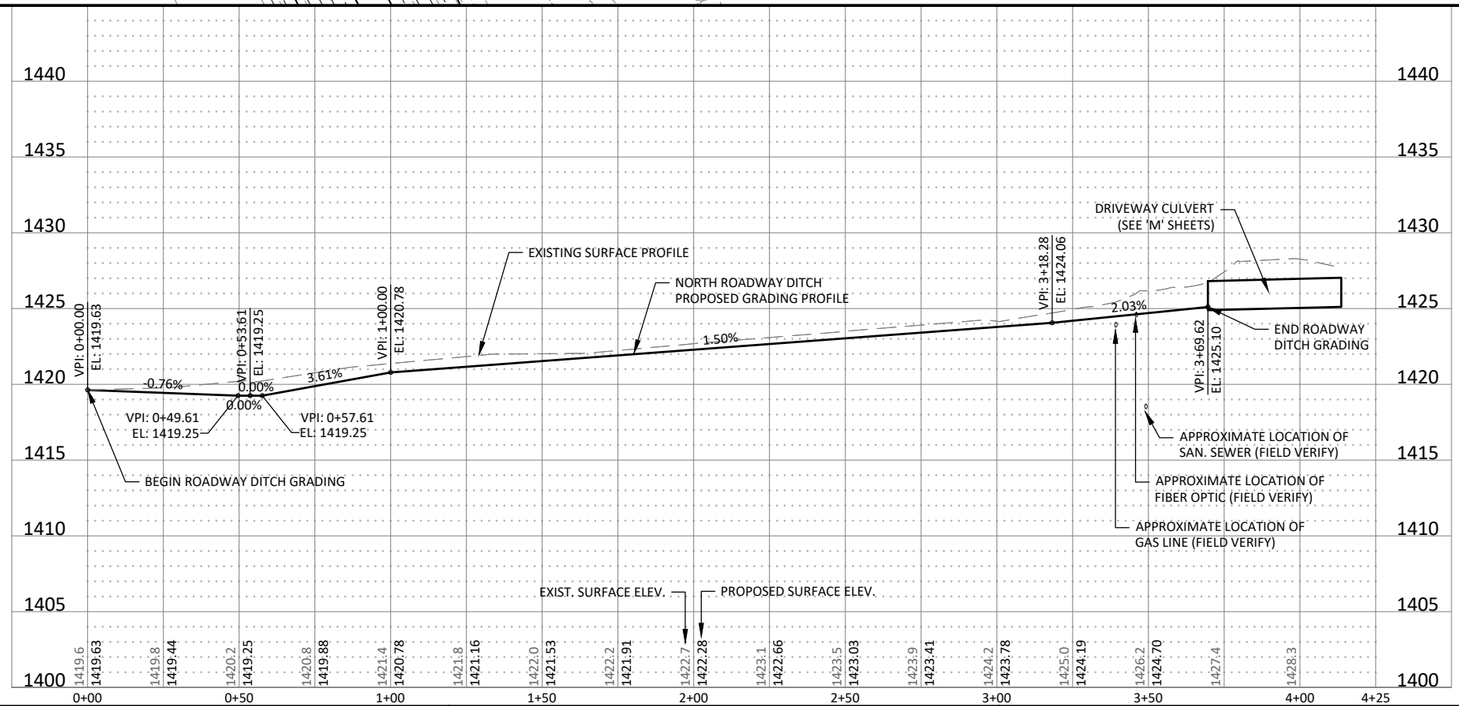
Storm Lake City Of
RICHLAND
PIN: 1402254002

Miller Brian E
324 EXPANSION
PIN: 1402403004

Bodholdt Steven D
1806 E Richland
PIN: 1402402001

HORZ. SCALE 0 25 50 FEET

VERT. SCALE 0 5 10 FEET



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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER ED.02	REVISED

STA:8+28.07
BEGIN NORTH ROADWAY DITCH GRADING
(SEE PROFILE BELOW)

Buena Vista County
1709 & 711 RICHLAND
PIN: 1402257006

Liberty Food Service Inc
1800 RICHLAND
PIN: 1402258015

Bodholdt Steven D
1806 RICHLAND
PIN: 1402276010

NORTH ROADWAY DITCH
PROPOSED GRADING SEE
PROFILE BELOW

RAY STREET

E. RICHLAND STREET

EXPANSION BLVD.

EXISTING STORM SEWER ESMT

Bodholdt Steven D
1806 E Richland
PIN: 1402402001

Bodholdt Steven D
1806 E Richland
PIN: 1402402001

Bodholdt Steven D
1806 E Richland
PIN: 1402426001

HORZ. SCALE 0 25 50 FEET
VERT. SCALE 0 5 10 FEET

NORTH ROADWAY DITCH PROFILE

RAY STREET

EXISTING SURFACE PROFILE
NORTH ROADWAY DITCH
PROPOSED GRADING PROFILE
BEGIN ROADWAY DITCH GRADING
PROPOSED WATER MAIN
STORM SEWER, TYP.
(SEE 'M' SHEETS)
DRIVEWAY CULVERT, TYP.
(SEE 'M' SHEETS)

VPI: 9+15.00 EL: 1426.65
VPI: 11+25.00 EL: 1423.70
VPI: 11+41.40 EL: 1423.43
VPI: 11+78.37 EL: 1427.15
VPI: 11+94.18 EL: 1426.82
VPI: 11+99.05 EL: 1426.60
VPI: 12+26.92 EL: 1421.96
VPI: 12+70.50 EL: 1421.72
VPI: 13+46.50 EL: 1420.35
VPI: 13+75.00 EL: 1419.75
VPI: 13+95.32 EL: 1420.18
VPI: 14+71.32 EL: 1420.27
VPI: 14+94.32 EL: 1420.35
VPI: 15+21.31 EL: 1424.85
VPI: 15+61.24 EL: 1424.55

-1.41% -1.66% -2.07% -4.53% -16.67% -0.55% -2.11% 2.12% 0.35% 16.67% -16.67%

EXIST. SURFACE ELEV. PROPOSED SURFACE ELEV.

8+25	8+50	9+00	9+50	10+00	10+50	11+00	11+50
1426.7	1426.8	1426.7	1426.7 / 1426.51	1426.7 / 1426.16	1426.8 / 1425.81	1426.7 / 1425.46	1426.5 / 1425.11
12+00	12+50	13+00	13+50	14+00	14+50	15+00	15+50	15+75
1426.2 / 1424.76	1425.8 / 1424.41	1425.5 / 1424.05	1425.0 / 1423.70	1425.6	1427.1	1425.3 / 1426.45	1422.7 / 1422.28	1422.5 / 1421.83	1424.1	1426.1	1425.2	1422.1 / 1420.28	1421.6 / 1419.75	1421.2	1424.7	1424.7	1421.4 / 1420.28	1421.7 / 1421.30	1424.8	1424.7	1422.0 / 1422.26

ENGLISH	IOWA DOT	DESIGN TEAM	POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER	STBG-SWAP-7422(620)--SG-11	SHEET NUMBER	ED.03	REVISED
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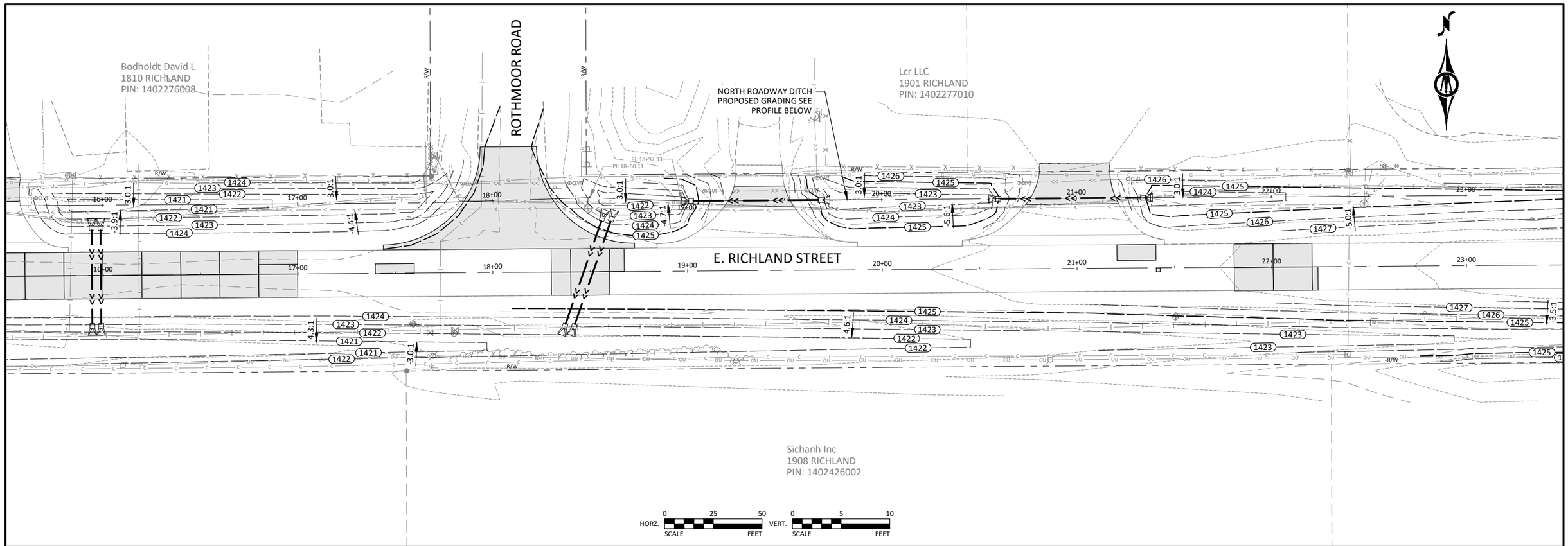

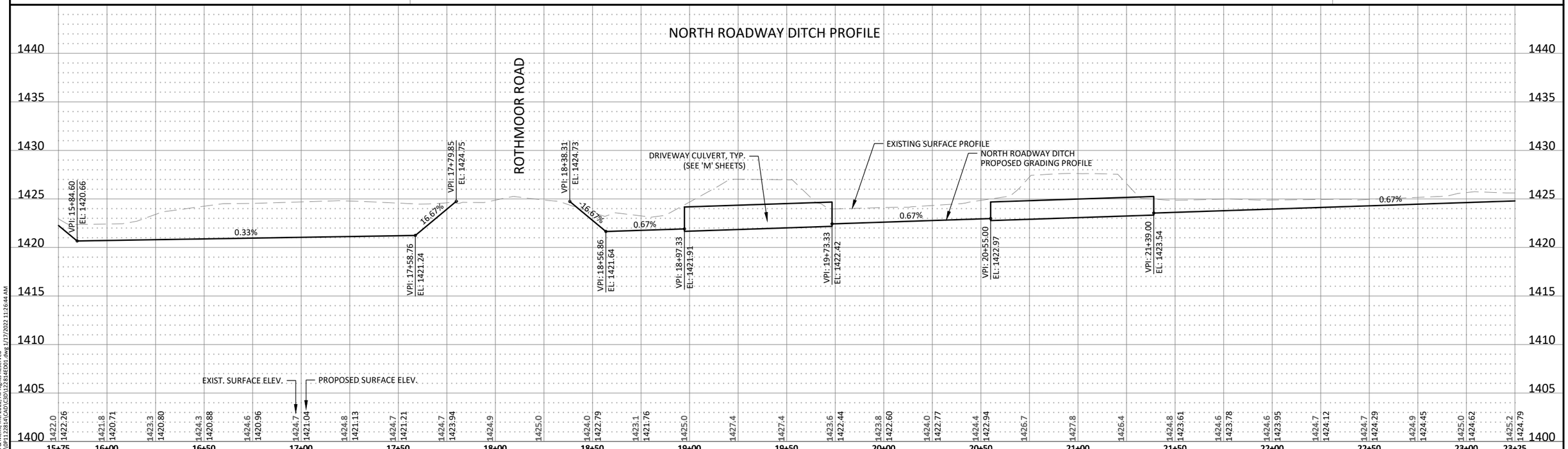

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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER ED.04	REVISED

Buena Vista County
1913 RICHLAND
PIN: 1402277008

STA:26+41.82
END NORTH ROADWAY DITCH GRADING
(SEE PROFILE BELOW)

NORTH ROADWAY DITCH
PROPOSED GRADING SEE
PROFILE BELOW

RADIO ROAD

E. RICHLAND STREET

Sichanh Inc
PIN: 1402426006

HORZ. SCALE 0 25 50 FEET
VERT. SCALE 0 5 10 FEET

NORTH ROADWAY DITCH PROFILE

VPI: 23+99.19
EL: 1427.86
VPI: 24+48.95
EL: 1427.85
VPI: 23+83.16
EL: 1425.18
VPI: 24+62.34
EL: 1425.62
VPI: 26+41.82
EL: 1424.29
-16.67%
-16.67%
-0.74%
EXISTING SURFACE PROFILE
NORTH ROADWAY DITCH
PROPOSED GRADING PROFILE
END ROADWAY DITCH GRADING
EXIST. SURFACE ELEV.
PROPOSED SURFACE ELEV.

23+25	23+50	24+00	24+50	25+00	25+50	26+00	26+50	27+00	27+50	28+00	28+50	29+00	29+50	30+00	30+50	30+75
1425.2	1425.4	1425.7	1427.9	1428.1	1427.8	1426.2	1425.8	1425.4	1425.0	1425.1	1425.2	1425.2				
1424.79	1424.96	1425.13			1427.68	1425.53	1425.34	1425.16	1424.97	1424.78	1424.60	1424.41				

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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER ED.05	REVISED

Storm Lake City Of
RICHLAND
PIN: 1402254002

G F Land Partnership
412 EXPANSION
PIN: 1402254008

Buena Vista County
1709 & 1711 RICHLAND
PIN: 1402257006

EXPANSION BLVD.

E. RICHLAND STREET

5858
MH-SAN

EXISTING STORM SEWER ESMT

Howie Paul E, Howie Eileen E
1516 RICHLAND
PIN: 1402401015

Howie Paul E, Howie Eileen E
1520 RICHLAND
PIN: 1402401003

Storm Lake City Of
RICHLAND
PIN: 1402254002

Miller Brian E
324 EXPANSION
PIN: 1402403004

Bodholdt Steven D
1806 E Richland
PIN: 1402402001

STA:0+07.87
BEGIN SOUTH DITCH GRADING
(SEE PROFILE BELOW)

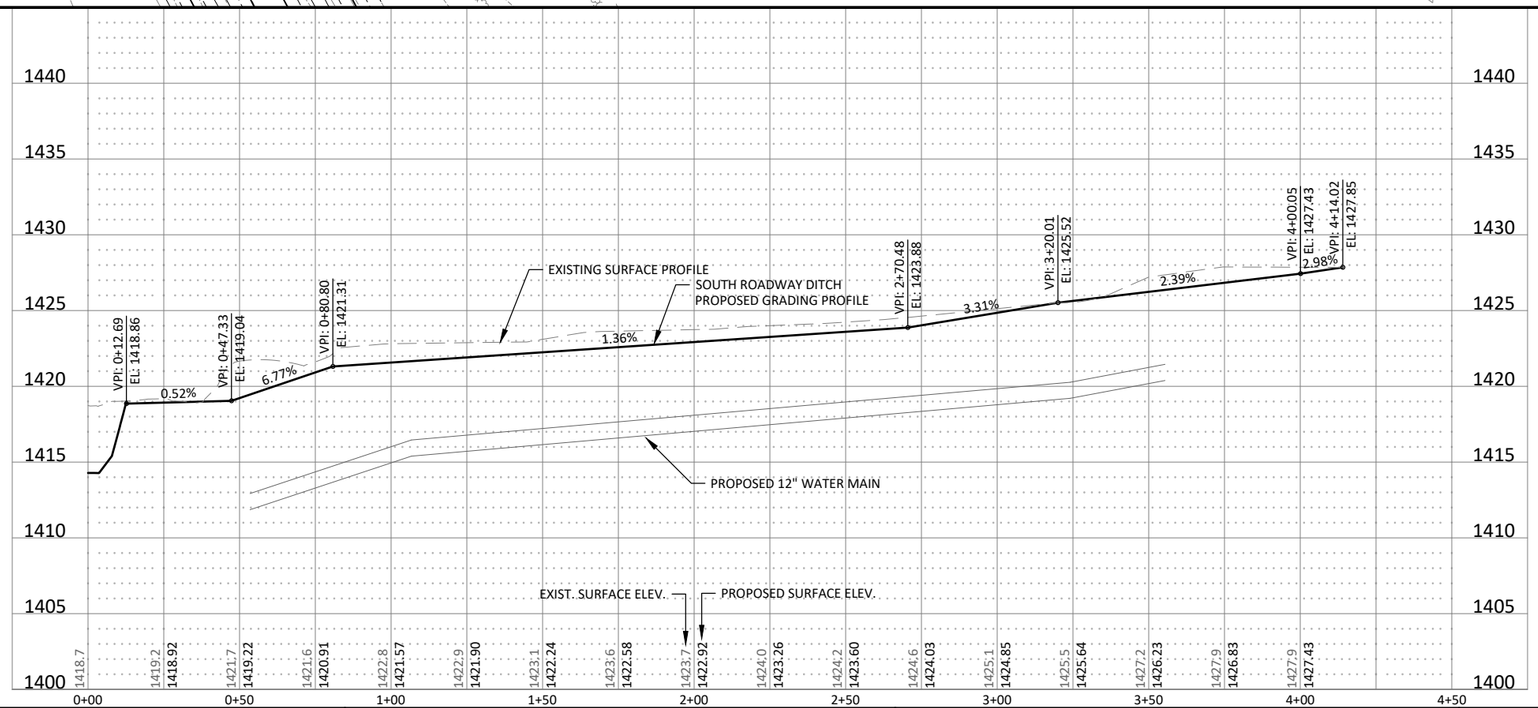
PROPOSED OPEN DITCH (SEE SHEET ED.01)

SOUTH ROADWAY DITCH
PROPOSED GRADING SEE
PROFILE BELOW

STA:4+14.02
END SOUTH DITCH GRADING
(SEE PROFILE BELOW)

HORZ. SCALE 0 25 50 FEET

VERT. SCALE 0 5 10 FEET



ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER ED.06	REVISED

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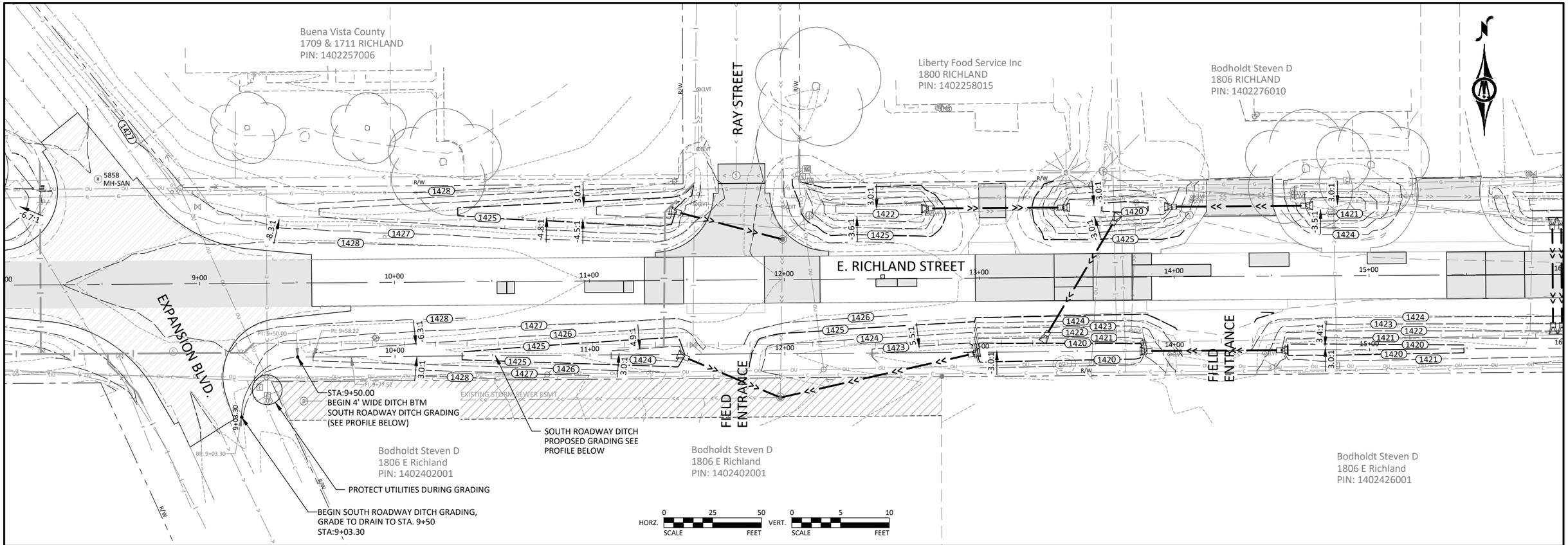

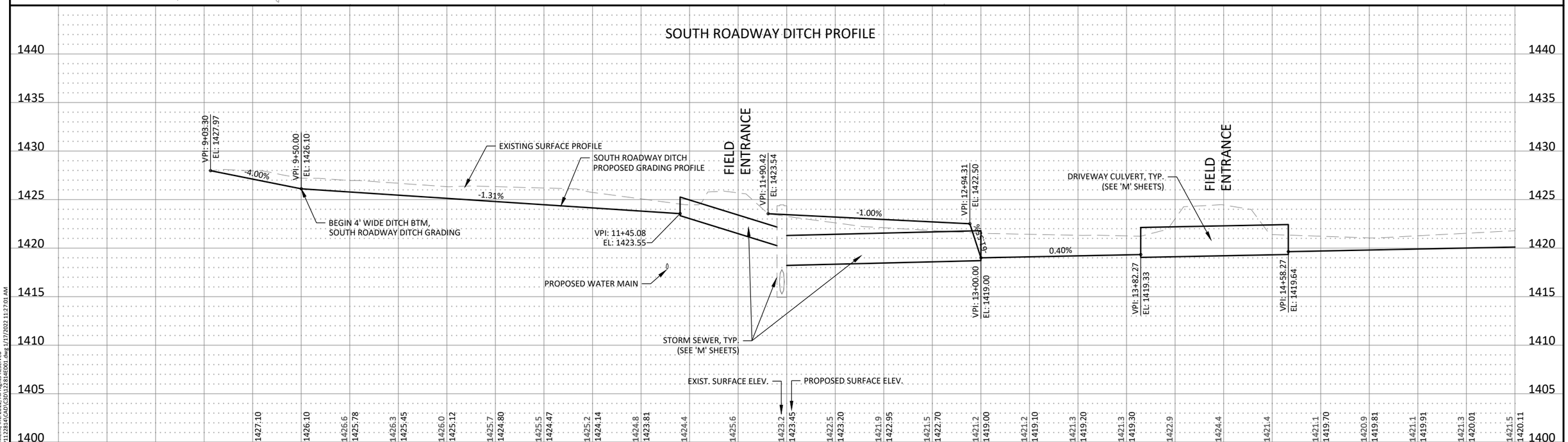

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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER ED.07	REVISED

Bodholdt David L
1810 RICHLAND
PIN: 1402276008

ROTHMOOR ROAD

Lcr LLC
1901 RICHLAND
PIN: 1402277010

E. RICHLAND STREET

SOUTH ROADWAY DITCH
PROPOSED GRADING SEE
PROFILE BELOW

Sichanh Inc
1908 RICHLAND
PIN: 1402426002

HORZ. SCALE 0 25 50 FEET
VERT. SCALE 0 5 10 FEET

SOUTH ROADWAY DITCH PROFILE

EXISTING SURFACE PROFILE
SOUTH ROADWAY DITCH
PROPOSED GRADING PROFILE
0.40%
EXIST. SURFACE ELEV.
PROPOSED SURFACE ELEV.

15+75	16+00	16+50	17+00	17+50	18+00	18+50	19+00	19+50	20+00	20+50	21+00	21+50	22+00	22+50	23+00	23+25
1421.5	1421.6	1421.6	1421.7	1421.8	1421.8	1421.9	1422.0	1422.1	1422.4	1422.5	1422.6	1422.7	1422.7	1422.7	1422.6	1422.6	1422.5	1422.5	1422.4	1422.5	1422.7	1422.8	1422.9	1423.1	1423.2	1423.4	1423.6	1423.9	1424.0
1420.11	1420.21	1420.31	1420.41	1420.51	1420.61	1420.71	1420.81	1420.91	1421.01	1421.11	1421.21	1421.32	1421.42	1421.52	1421.62	1421.72	1421.82	1421.92	1422.02	1422.12	1422.22	1422.32	1422.42	1422.52	1422.62	1422.72	1422.83	1422.93	1423.03	1423.13

ENGLISH	IOWA DOT	DESIGN TEAM	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER	SHEET NUMBER	REVISED
		POPE\BOLTON & MENK INC			STBG-SWAP-7422(620)--SG-11	ED.08	

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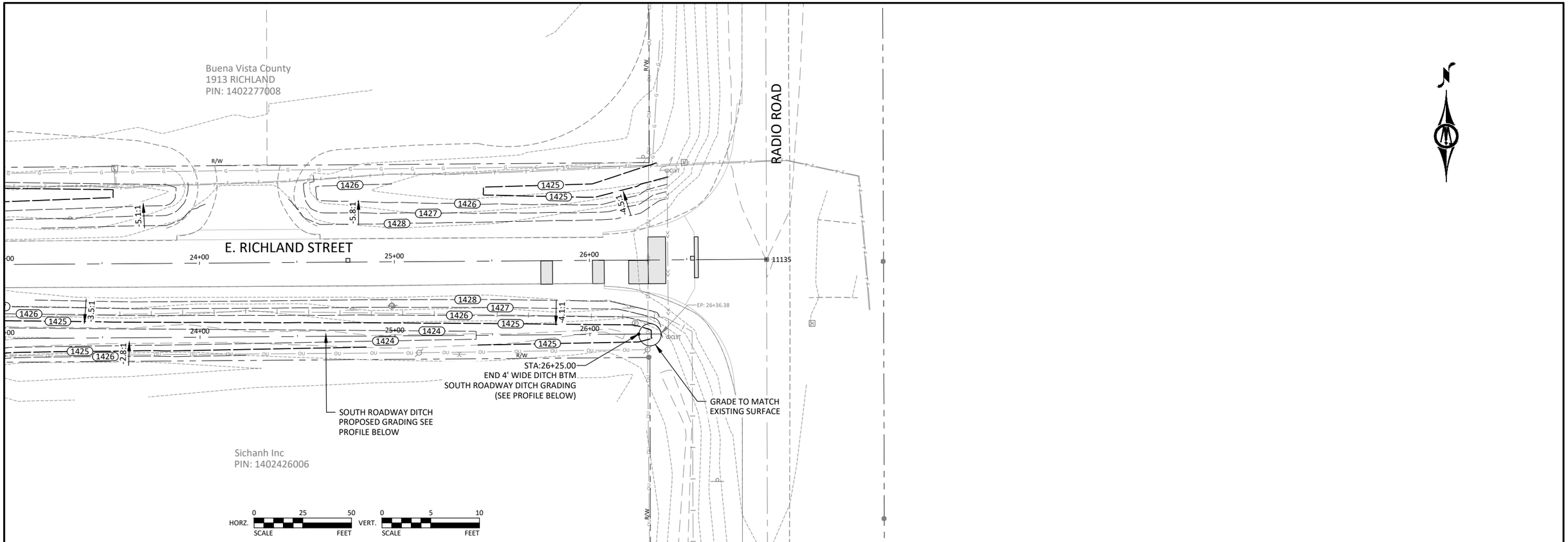

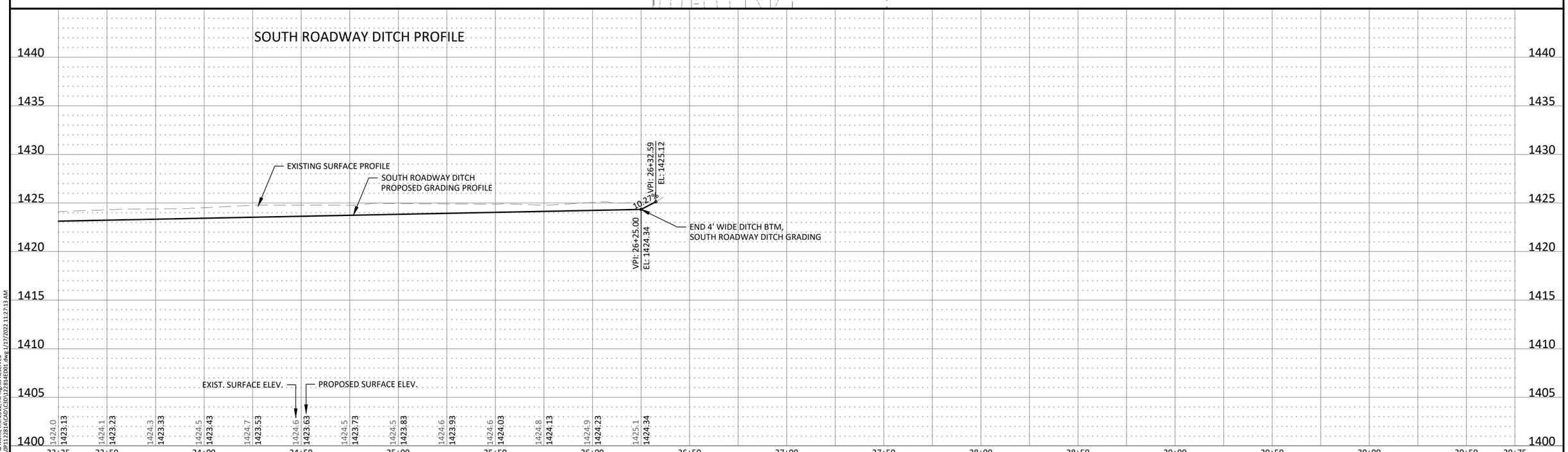

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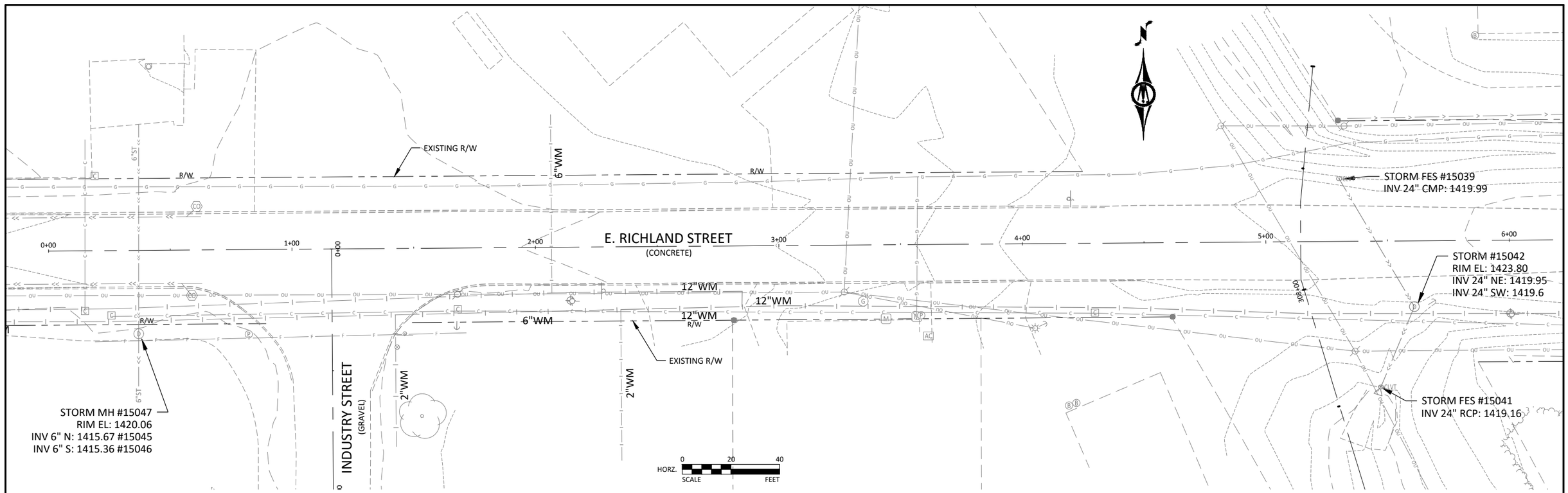
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER ED.09	REVISED



ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER G.01	REVISED

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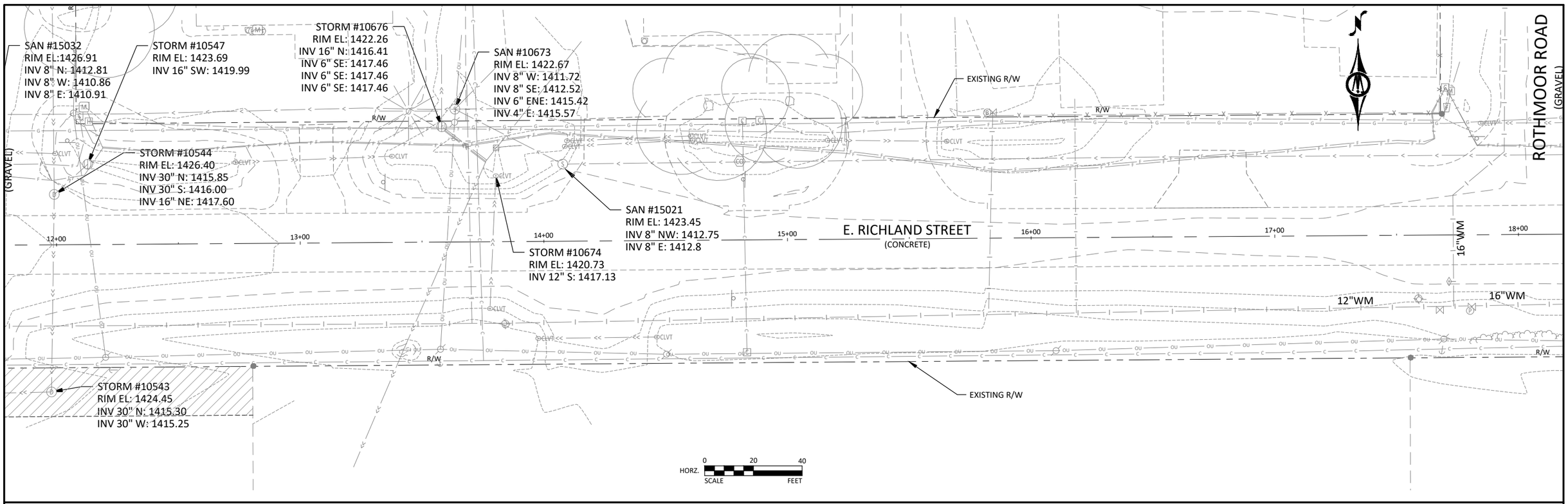

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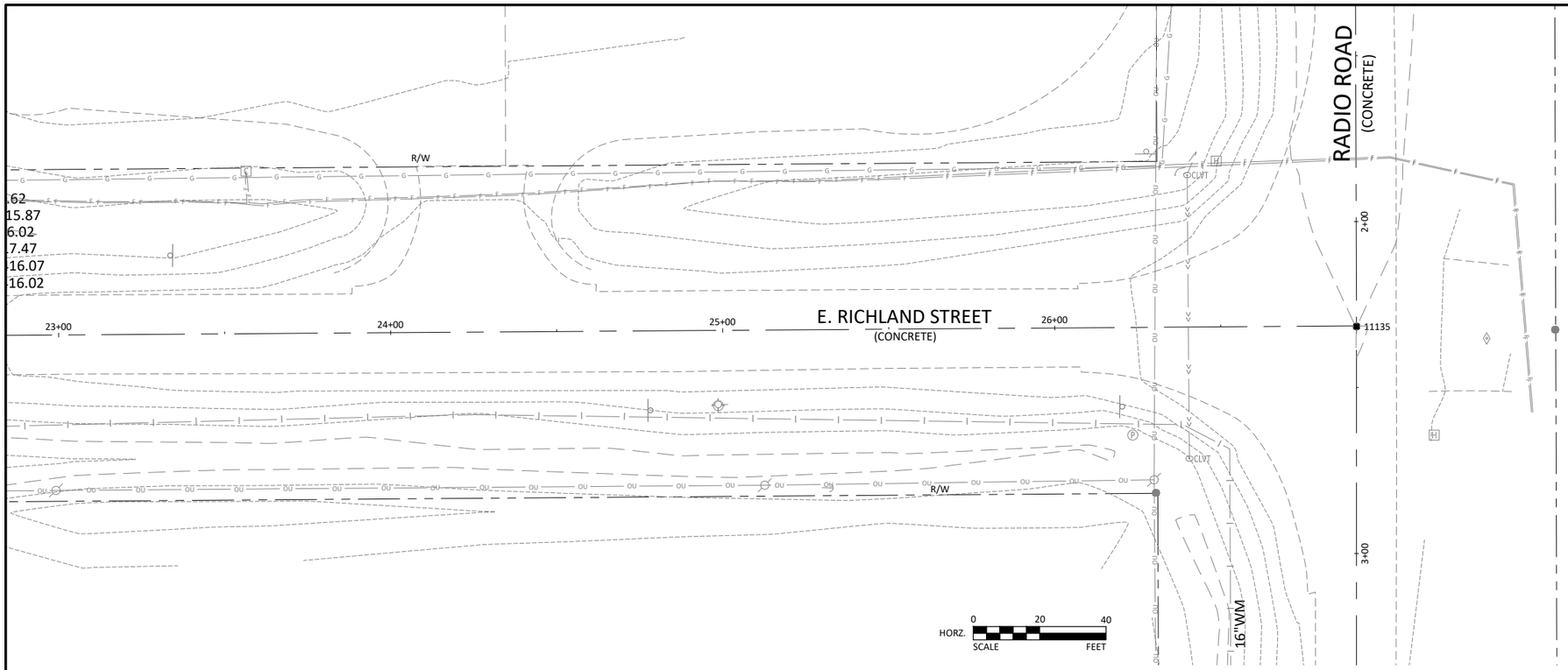
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER G.02	REVISED



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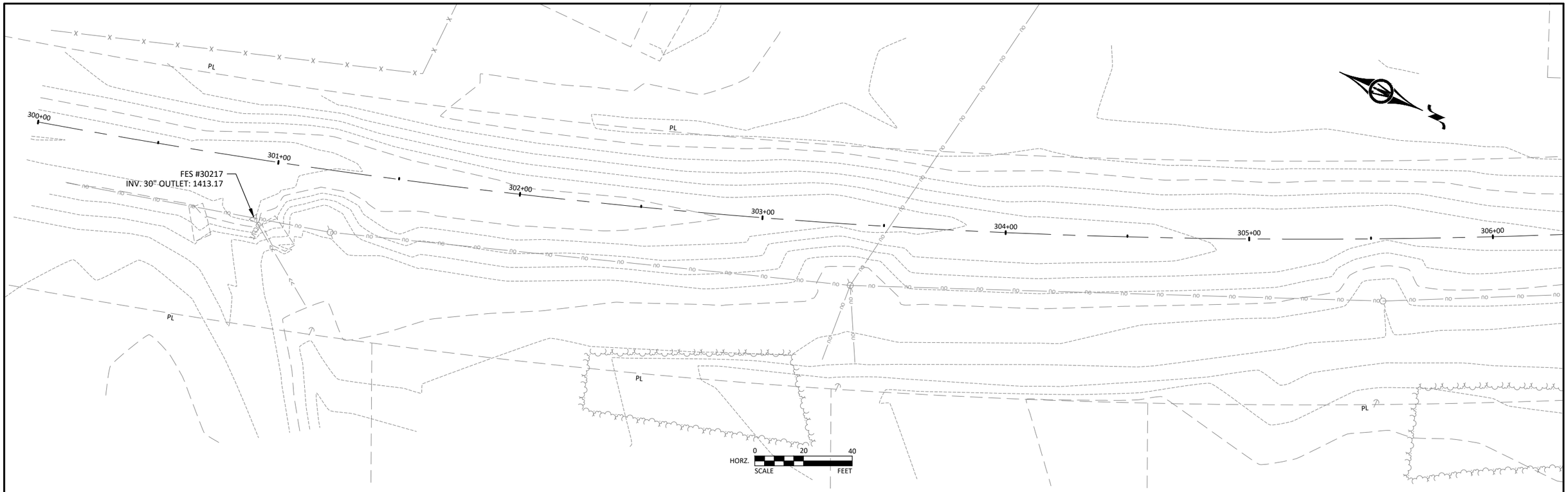

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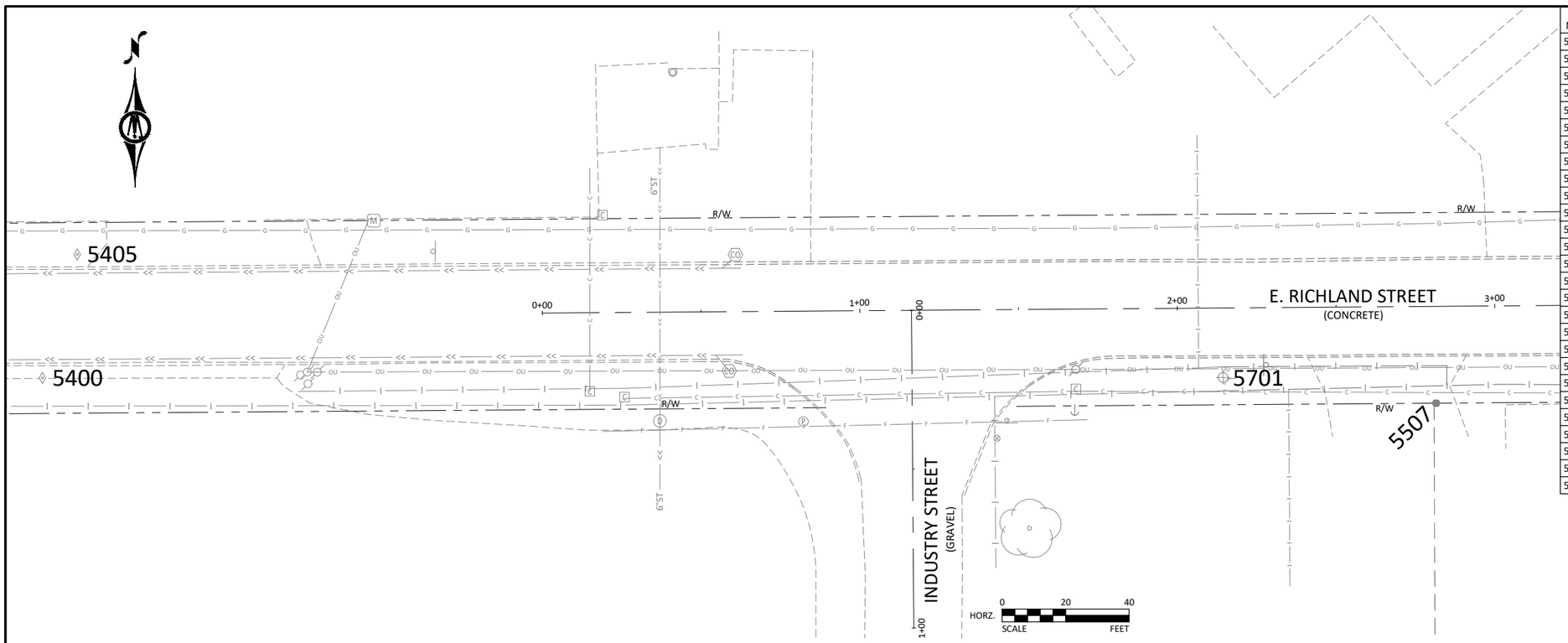
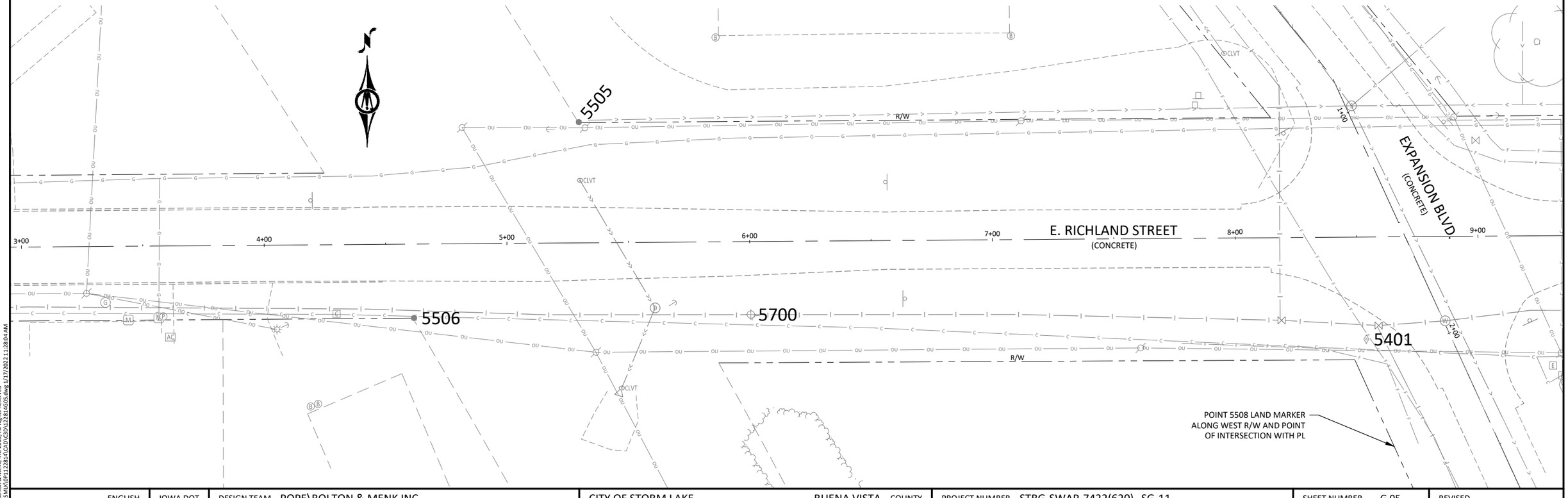
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER G.04	REVISED



POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
5000	8639399.347	14409048.61	1430.069	LEAD PLUG EAST 1/4, SEC. 2-90-73
5400	8639359.742	14406200.32	1418.464	MAG NAIL
5401	8639344.449	14407211.79	1427.87	CONTROL POINT, IRON PIN W/PINK CAP
5402	8639367.731	14407522.3	1427.149	CONTROL POINT, IRON PIN W/PINK CAP
5403	8639373.964	14408129.27	1425.084	CONTROL POINT, IRON PIN W/PINK CAP
5404	8639395.757	14409087.79	1428.263	CONTROL POINT, IRON PIN W/PINK CAP
5405	8639398.637	14406211.29	1418.857	CONTROL POINT, IRON PIN
5500	8639398.391	14409108.45	1428.876	LAND MARKER, REBAR
5501	8639266.428	14409108.9	1427.249	LAND MARKER, REBAR
5502	8639349.207	14408988.23	1425.833	LAND MARKER, REBAR
5503	8639445.936	14408597.2	1426.425	LAND MARKER, REBAR
5504	8639442.684	14408126.3	1424.265	LAND MARKER, REBAR
5505	8639433.815	14406887.38	1424.672	LAND MARKER, REBAR
5506	8639353.177	14406819.52	1423.781	LAND MARKER, REBAR
5507	8639351.792	14406639.3	1421.021	LAND MARKER, REBAR
5508	8639175.437	14407280.22	1426.654	LAND MARKER, REBAR
5509	8639339.286	14407638.57	1422.396	LAND MARKER, REBAR
5510	8638621.036	14407229.96	1418.578	LAND MARKER, W/PINK CAP
5599	8639342.745	14408113.54	1423.484	LAND MARKER, REBAR
5700	8639354.592	14406958.24	1424.88	BENCH MARK, FIRE HYDRANT
5701	8639359.861	14406572.21	1423.587	BENCH MARK, FIRE HYDRANT
5702	8639358.846	14407348.23	1428.794	BENCH MARK, FIRE HYDRANT
5703	8639356.478	14407741.98	1423.17	BENCH MARK, FIRE HYDRANT
5704	8639366.965	14408116.66	1424.763	BENCH MARK, FIRE HYDRANT
5705	8639370.44	14408508.22	1426.328	BENCH MARK, FIRE HYDRANT
5706	8639375.489	14408856.38	1428.285	BENCH MARK, FIRE HYDRANT
5707	8639178.168	14409011.62	1426.319	BENCH MARK, FIRE HYDRANT



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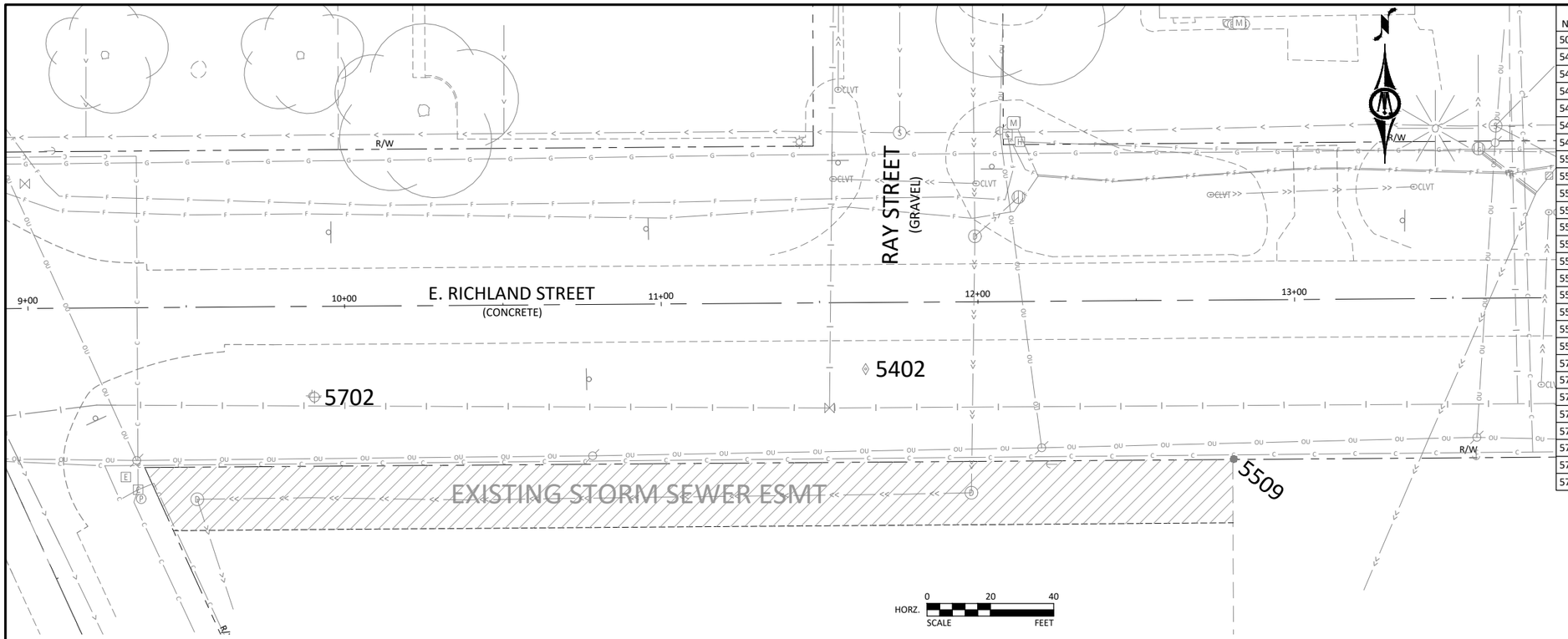
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER G.05	REVISED



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5403	8639373.964	14408129.27	1425.084	CONTROL POINT, IRON PIN W/PINK CAP
5404	8639395.757	14409087.79	1428.263	CONTROL POINT, IRON PIN W/PINK CAP
5405	8639398.637	14406211.29	1418.857	CONTROL POINT, IRON PIN
5500	8639398.391	14409108.45	1428.876	LAND MARKER, REBAR
5501	8639266.428	14409108.9	1427.249	LAND MARKER, REBAR
5502	8639349.207	14408988.23	1425.833	LAND MARKER, REBAR
5503	8639445.936	14408597.2	1426.425	LAND MARKER, REBAR
5504	8639442.684	14408126.3	1424.265	LAND MARKER, REBAR
5505	8639433.815	14406887.38	1424.672	LAND MARKER, REBAR
5506	8639353.177	14406819.52	1423.781	LAND MARKER, REBAR
5507	8639351.792	14406639.3	1421.021	LAND MARKER, REBAR
5508	8639175.437	14407280.22	1426.654	LAND MARKER, REBAR
5509	8639339.286	14407638.57	1422.396	LAND MARKER, REBAR
5510	8638621.036	14407229.96	1418.578	LAND MARKER, W/PINK CAP
5599	8639342.745	14408113.54	1423.484	LAND MARKER, REBAR
5700	8639354.592	14406958.24	1424.88	BENCH MARK, FIRE HYDRANT
5701	8639359.861	14406572.21	1423.587	BENCH MARK, FIRE HYDRANT
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5703	8639356.478	14407741.98	1423.17	BENCH MARK, FIRE HYDRANT
5704	8639366.965	14408116.66	1424.763	BENCH MARK, FIRE HYDRANT
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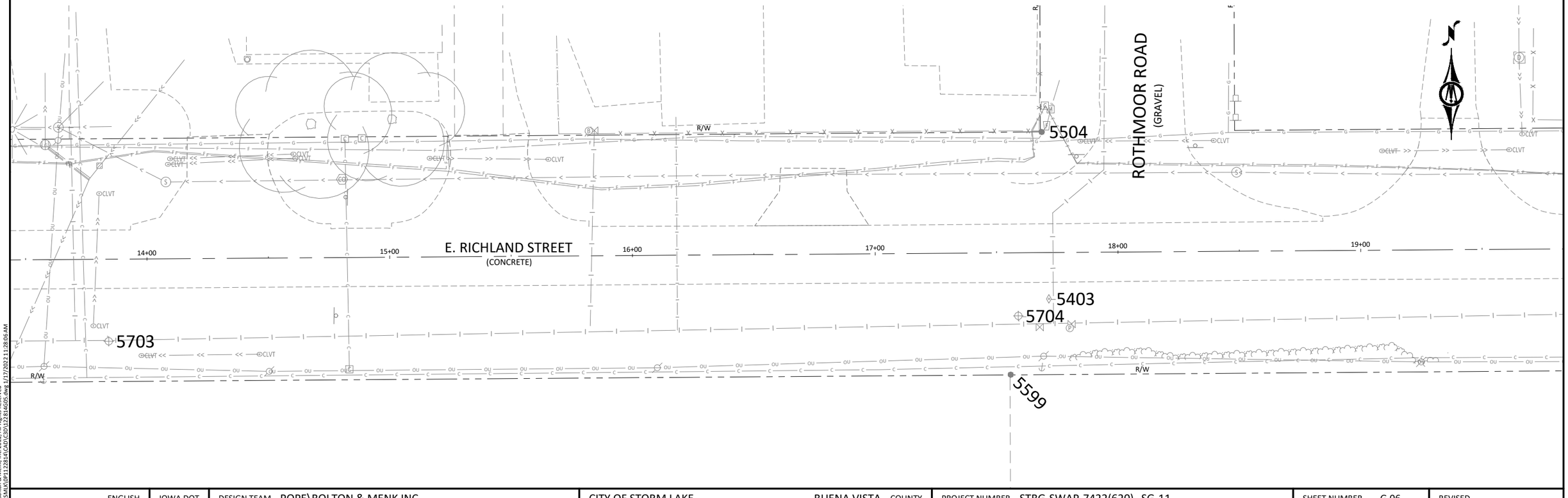

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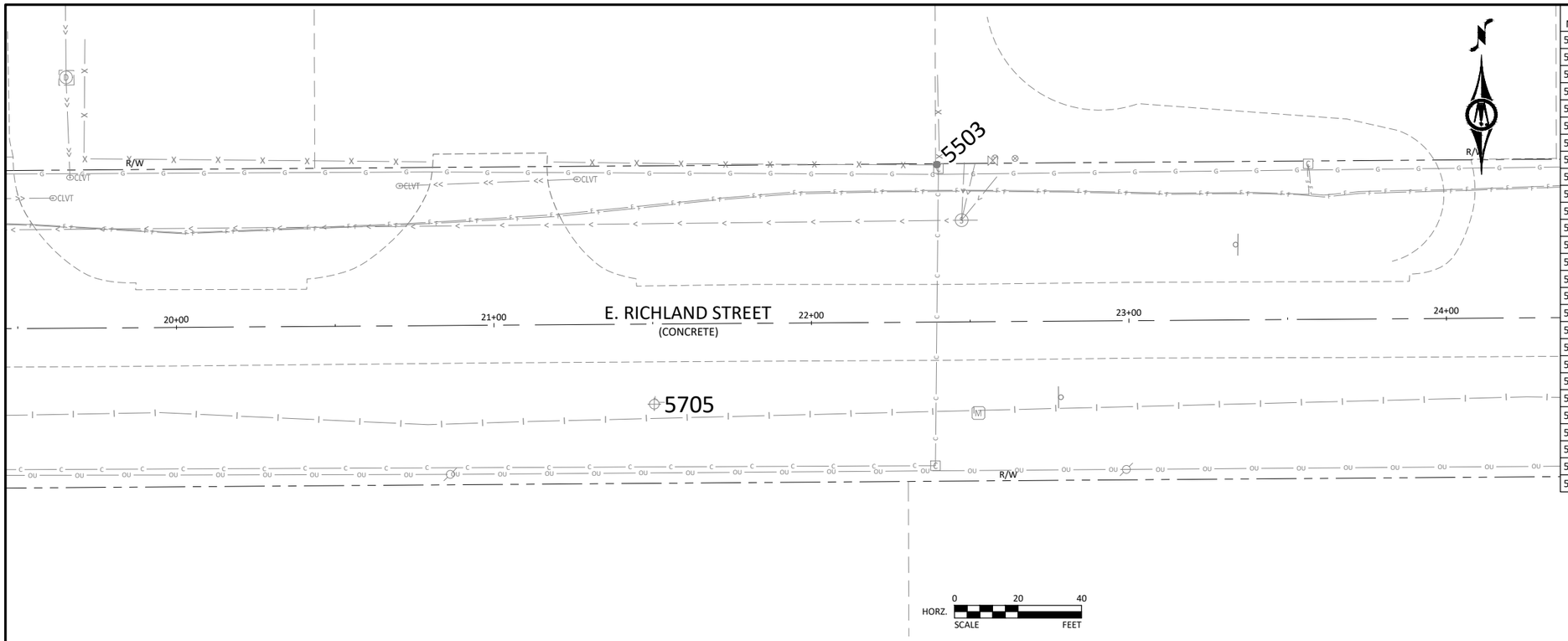
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER G.06	REVISED



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5703	8639356.478	14407741.98	1423.17	BENCH MARK, FIRE HYDRANT
5704	8639366.965	14408116.66	1424.763	BENCH MARK, FIRE HYDRANT
5705	8639370.44	14408508.22	1426.328	BENCH MARK, FIRE HYDRANT
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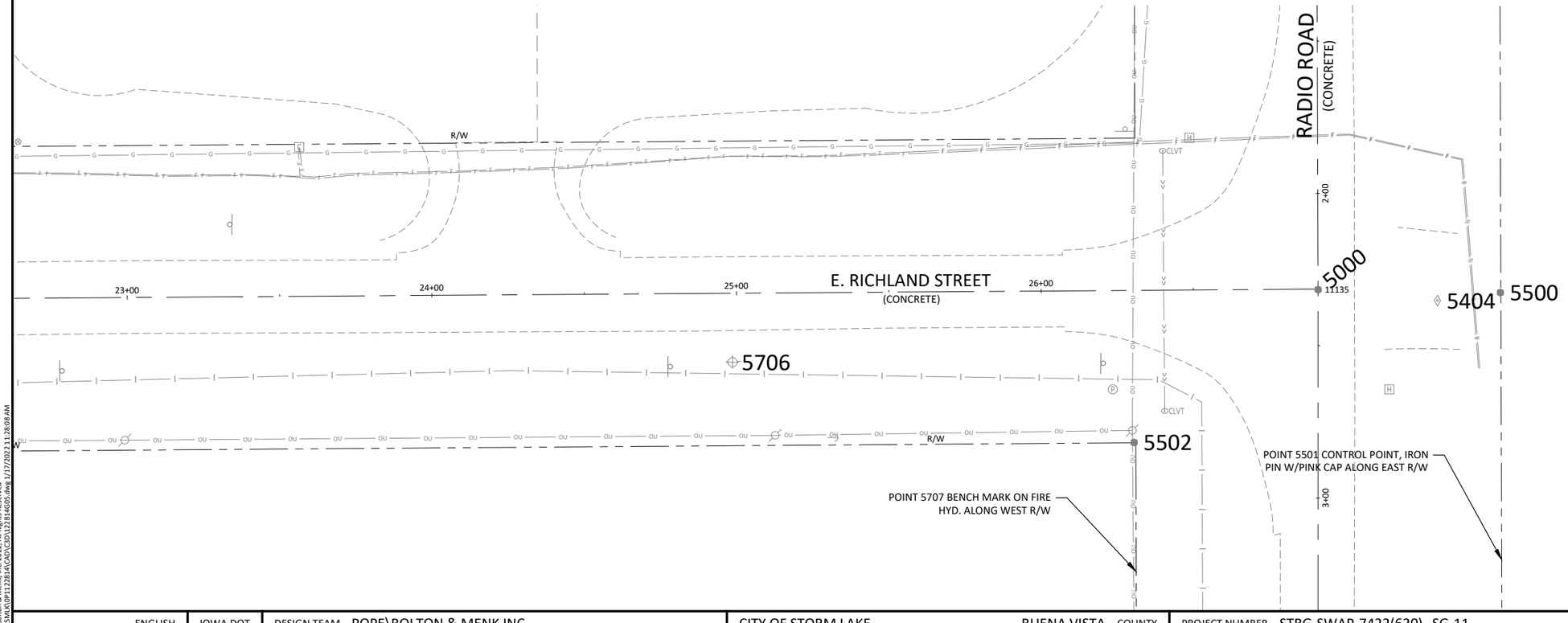

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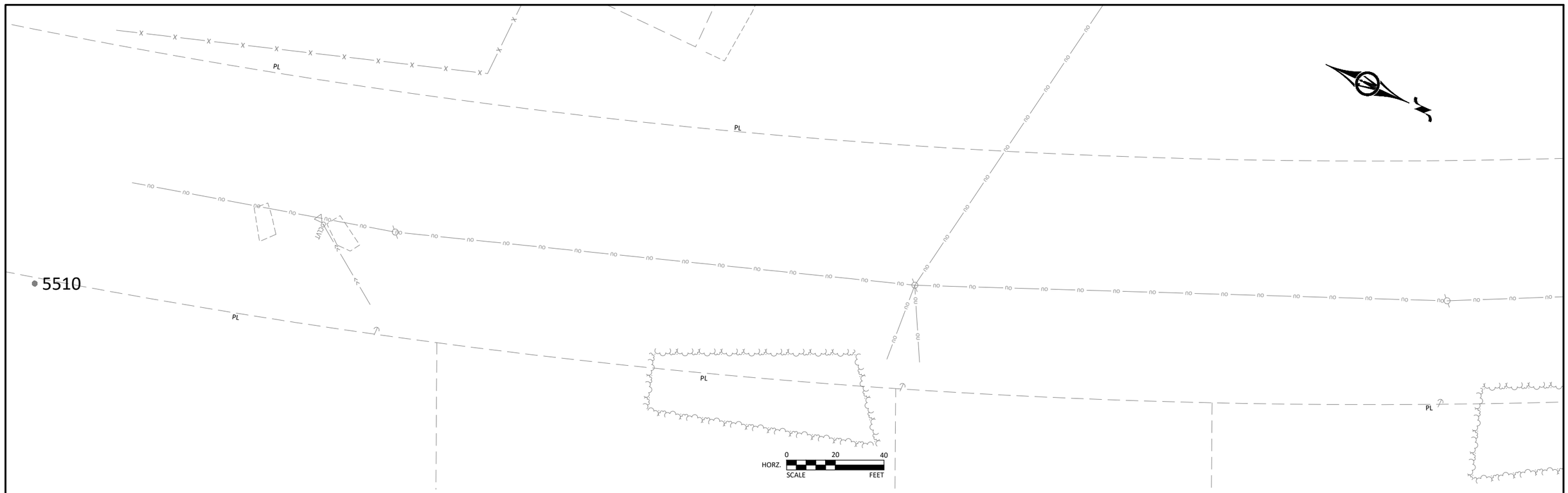
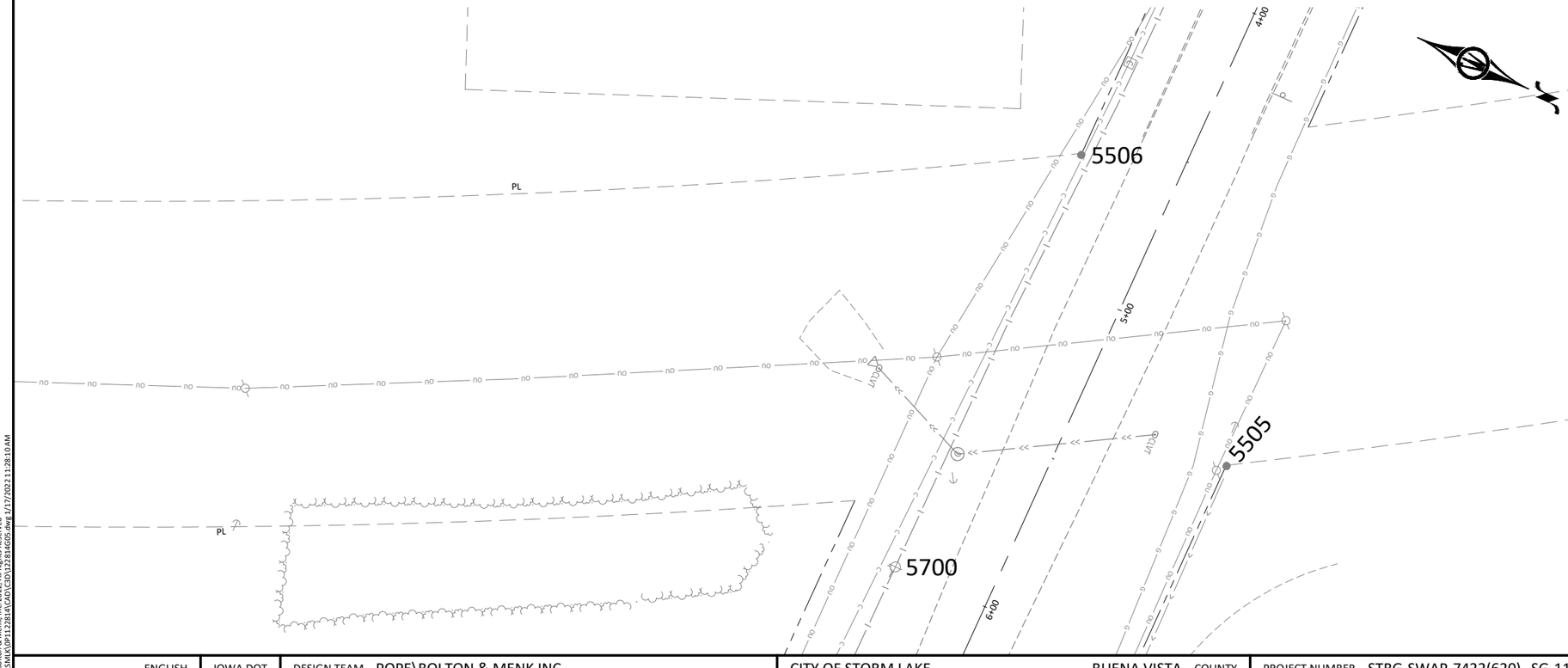
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER G.07	REVISED





POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
5000	8639399.347	14409048.61	1430.069	LEAD PLUG EAST 1/4, SEC. 2-90-73
5400	8639359.742	14406200.32	1418.464	MAG NAIL
5401	8639344.449	14407211.79	1427.87	CONTROL POINT, IRON PIN W/PINK CAP
5402	8639367.731	14407522.3	1427.149	CONTROL POINT, IRON PIN W/PINK CAP
5403	8639373.964	14408129.27	1425.084	CONTROL POINT, IRON PIN W/PINK CAP
5404	8639395.757	14409087.79	1428.263	CONTROL POINT, IRON PIN W/PINK CAP
5405	8639398.637	14406211.29	1418.857	CONTROL POINT, IRON PIN
5500	8639398.391	14409108.45	1428.876	LAND MARKER, REBAR
5501	8639266.428	14409108.9	1427.249	LAND MARKER, REBAR
5502	8639349.207	14408988.23	1425.833	LAND MARKER, REBAR
5503	8639445.936	14408597.2	1426.425	LAND MARKER, REBAR
5504	8639442.684	14408126.3	1424.265	LAND MARKER, REBAR
5505	8639433.815	14406887.38	1424.672	LAND MARKER, REBAR
5506	8639353.177	14406819.52	1423.781	LAND MARKER, REBAR
5507	8639351.792	14406639.3	1421.021	LAND MARKER, REBAR
5508	8639175.437	14407280.22	1426.654	LAND MARKER, REBAR
5509	8639339.286	14407638.57	1422.396	LAND MARKER, REBAR
5510	8638621.036	14407229.96	1418.578	LAND MARKER, W/PINK CAP
5599	8639342.745	14408113.54	1423.484	LAND MARKER, REBAR
5700	8639354.592	14406958.24	1424.88	BENCH MARK, FIRE HYDRANT
5701	8639359.861	14406572.21	1423.587	BENCH MARK, FIRE HYDRANT
5702	8639358.846	14407348.23	1428.794	BENCH MARK, FIRE HYDRANT
5703	8639356.478	14407741.98	1423.17	BENCH MARK, FIRE HYDRANT
5704	8639366.965	14408116.66	1424.763	BENCH MARK, FIRE HYDRANT
5705	8639370.44	14408508.22	1426.328	BENCH MARK, FIRE HYDRANT
5706	8639375.489	14408856.38	1428.285	BENCH MARK, FIRE HYDRANT
5707	8639178.168	14409011.62	1426.319	BENCH MARK, FIRE HYDRANT

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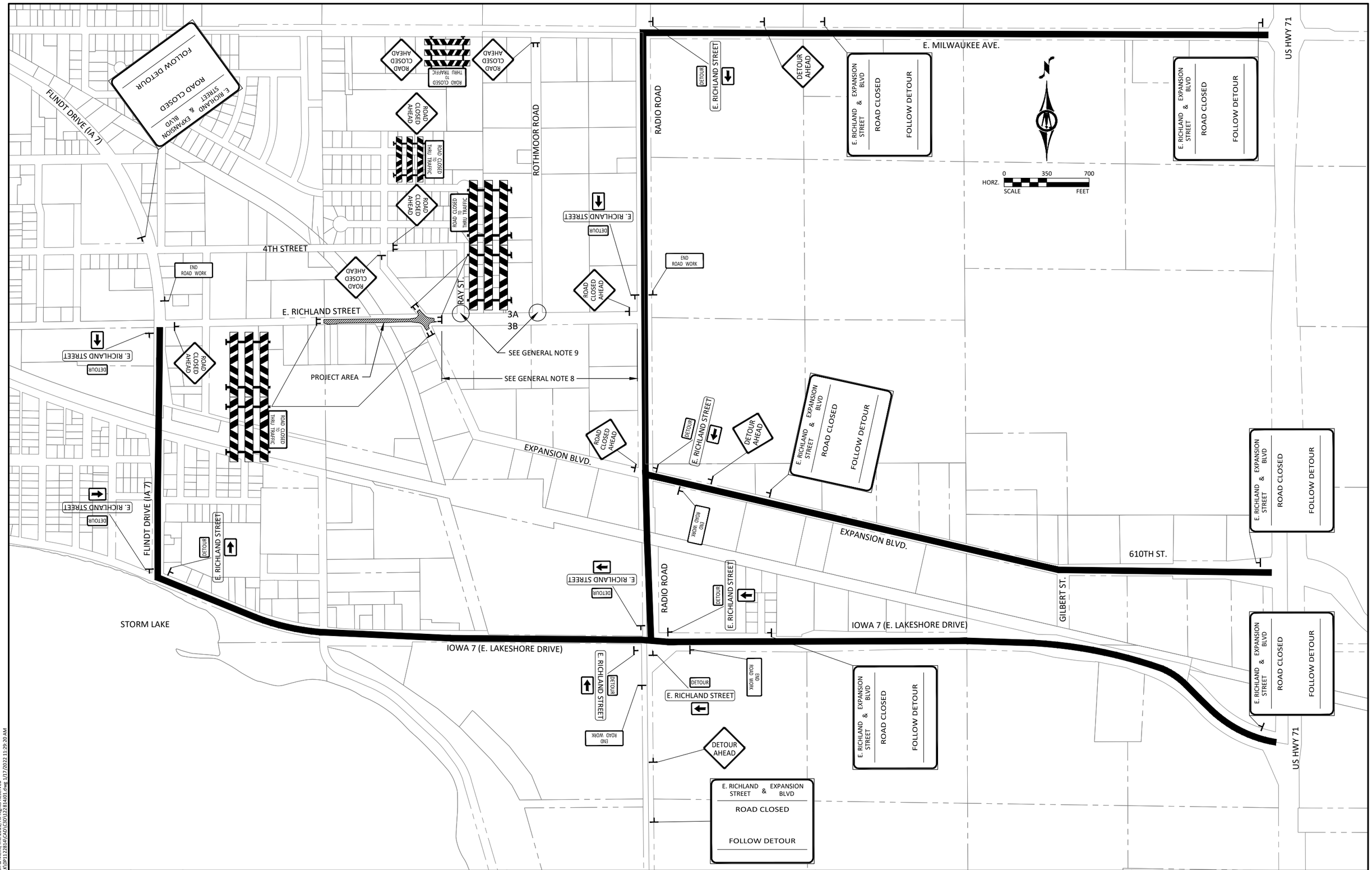

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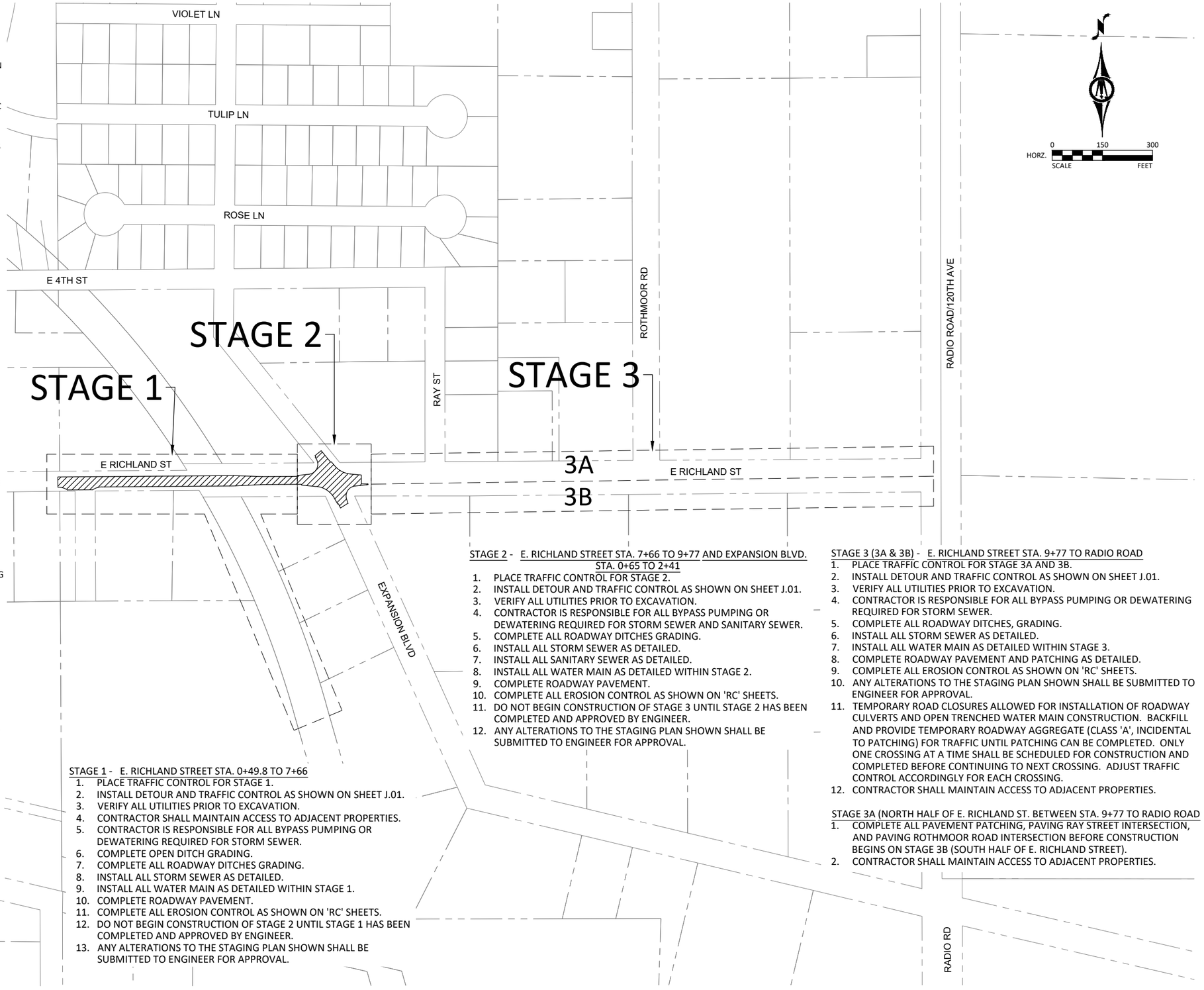
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER J.01	REVISED

TRAFFIC CONTROL NOTES:

1. COORDINATE DETOUR SIGNING WITH IA 110 AND IA 7 CLOSURE / DETOUR.
2. THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL WITH OTHER PROJECTS IN THE AREA IF NECESSARY. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CLOSURES SHOWN ON THE J SHEETS. FOR ADDITIONAL INFORMATION, REFER TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130.
3. THE LUMP SUM BID ITEM FOR "TRAFFIC CONTROL" SHALL INCLUDE ALL COSTS FOR TRAFFIC CONTROL MEASURES DURING CONSTRUCTION FOR THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
4. TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING, AND PAVEMENT MARKINGS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130.
5. ALL TRAFFIC CONTROL SIGNS SHALL BE PLACED A MINIMUM OF TWO (2) FEET CLEAR OF THE BACK OF CURB OR OUTSIDE EDGE OF SHOULDER WHERE POSSIBLE.
6. ALL SIGNS SHALL BE POST MOUNTED UNLESS NOTED OR OTHERWISE APPROVED BY THE CITY.
7. PROPOSED SIGN SPACING MAY BE MODIFIED, AS APPROVED BY THE ENGINEER, TO MEET EXISTING FIELD RESTRICTIONS, OR TO PREVENT OBSTRUCTION OF THE MOTORIST'S VIEW OF PERMANENT SIGNING.
8. PROPOSED CHANGES IN THE TRAFFIC CONTROL PLAN SHALL BE REVIEWED WITH THE CITY BEFORE CHANGES ARE MADE.
9. THIS LAYOUT DOES NOT INCLUDE ALL BARRICADES AS MAY BE REQUIRED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
10. ANY TEMPORARY REGULATORY SIGNS ARE TO BE PROVIDED, LOCATED, AND MAINTAINED BY THE CONTRACTOR.
11. ALL CONTRACTOR FURNISHED TRAFFIC CONTROL AND FIXED, POST MOUNTED, TRAFFIC CONTROL SIGNS USED ON THIS PROJECT SHALL BE SHEETED WITH HIGH-VISIBILITY PRISMATIC REFLECTIVE SHEETING (TYPE III OR HIGHER).
12. THE CONTRACTOR SHALL FURNISH THE CITY WITH NAMES AND TELEPHONE NUMBERS OF INDIVIDUALS RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES AND SIGNING. THE INDIVIDUAL(S) SHALL BE AVAILABLE FOR CORRECTIVE ACTION 24 HOURS A DAY, 7 DAYS A WEEK.
13. THE CONTRACTOR SHALL NOTIFY THE CITY OF STREET OR LANE CLOSURE TWO (2) WEEKS PRIOR TO THE CLOSURE. STREET OR LANE CLOSURE NOTIFICATION TO BE ISSUED BY THE CITY FIVE (5) DAYS PRIOR TO CLOSURE. THE CONTRACTOR SHALL COORDINATE CLOSURE WITH THE CITY TO ENSURE THE ABOVE DEADLINES ARE ACHIEVED. CONTRACTOR SHALL COORDINATE DETOUR INFORMATION WITH CITY OF STORM LAKE, POST OFFICE, AND GARBAGE/RECYCLING SERVICES.
14. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, MOVE, AND REMOVE ALL TRAFFIC CONTROL DEVICES ON THE PROJECT. ALL SIGNS SHALL BE REFLECTORIZED AND CONFORM AS TO DESIGN, COLOR, SIZE, AND LEGEND TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130.
15. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS, WITH BOTH WRITTEN NOTICE AND PERSONAL CONTACT, WHEN ACCESS TO A PROPERTY WILL EITHER BE RESTRICTED OR NOT BE AVAILABLE DUE TO CONSTRUCTION ACTIVITIES.
16. NO FIELD MEASUREMENT SHALL BE MADE FOR THE TRAFFIC CONTROL BID ITEM. THE CONTRACTOR SHALL BE PAID THE LUMP SUM BID AMOUNT FOR TRAFFIC CONTROL.
17. SIGNAGE MAINTENANCE SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND REQUIRED AS DIRECTED BY THE ENGINEER.
18. THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NONWORKING HOURS SHALL BE AS APPROVED BY THE ENGINEER, AND THE CONTRACTOR SHALL PROVIDE A WRITTEN AGREEMENT WITH THE PROPERTY OWNER.
19. MULTIPLE MOBILIZATIONS ARE ANTICIPATED FOR TRAFFIC CONTROL TO ADJUST THE TRAFFIC CONTROL DEVICES FOR THE DIFFERENT STAGES OF CONSTRUCTION. THESE MOBILIZATIONS SHALL BE INCIDENTAL TO TRAFFIC CONTROL BID ITEM.
20. ACCESS TO RESIDENCES SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE CONTRACT.
21. FOLLOW STANDARD ROAD PLAN TC-212 DURING THIS PHASE OF PAVEMENT REPAIR (FULL DEPTH PATCHING).
22. FOLLOW STANDARD ROAD PLAN TC-252, SITUATION 3 DURING THIS PHASE OF PAVEMENT REPAIR (FULL DEPTH PATCHING).

STAGING NOTES

1. ANY ADJUSTMENT TO THE STAGING/TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF STORM LAKE AND ENGINEER A MINIMUM OF TWO WEEKS IN ADVANCE.



STAGE 1 - E. RICHLAND STREET STA. 0+49.8 TO 7+66

1. PLACE TRAFFIC CONTROL FOR STAGE 1.
2. INSTALL DETOUR AND TRAFFIC CONTROL AS SHOWN ON SHEET J.01.
3. VERIFY ALL UTILITIES PRIOR TO EXCAVATION.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES.
5. CONTRACTOR IS RESPONSIBLE FOR ALL BYPASS PUMPING OR DEWATERING REQUIRED FOR STORM SEWER.
6. COMPLETE OPEN DITCH GRADING.
7. COMPLETE ALL ROADWAY DITCHES GRADING.
8. INSTALL ALL STORM SEWER AS DETAILED.
9. INSTALL ALL WATER MAIN AS DETAILED WITHIN STAGE 1.
10. COMPLETE ROADWAY PAVEMENT.
11. COMPLETE ALL EROSION CONTROL AS SHOWN ON 'RC' SHEETS.
12. DO NOT BEGIN CONSTRUCTION OF STAGE 2 UNTIL STAGE 1 HAS BEEN COMPLETED AND APPROVED BY ENGINEER.
13. ANY ALTERATIONS TO THE STAGING PLAN SHOWN SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.

STAGE 2 - E. RICHLAND STREET STA. 7+66 TO 9+77 AND EXPANSION BLVD. STA. 0+65 TO 2+41

1. PLACE TRAFFIC CONTROL FOR STAGE 2.
2. INSTALL DETOUR AND TRAFFIC CONTROL AS SHOWN ON SHEET J.01.
3. VERIFY ALL UTILITIES PRIOR TO EXCAVATION.
4. CONTRACTOR IS RESPONSIBLE FOR ALL BYPASS PUMPING OR DEWATERING REQUIRED FOR STORM SEWER AND SANITARY SEWER.
5. COMPLETE ALL ROADWAY DITCHES GRADING.
6. INSTALL ALL STORM SEWER AS DETAILED.
7. INSTALL ALL SANITARY SEWER AS DETAILED.
8. INSTALL ALL WATER MAIN AS DETAILED WITHIN STAGE 2.
9. COMPLETE ROADWAY PAVEMENT.
10. COMPLETE ALL EROSION CONTROL AS SHOWN ON 'RC' SHEETS.
11. DO NOT BEGIN CONSTRUCTION OF STAGE 3 UNTIL STAGE 2 HAS BEEN COMPLETED AND APPROVED BY ENGINEER.
12. ANY ALTERATIONS TO THE STAGING PLAN SHOWN SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.

STAGE 3 (3A & 3B) - E. RICHLAND STREET STA. 9+77 TO RADIO ROAD

1. PLACE TRAFFIC CONTROL FOR STAGE 3A AND 3B.
2. INSTALL DETOUR AND TRAFFIC CONTROL AS SHOWN ON SHEET J.01.
3. VERIFY ALL UTILITIES PRIOR TO EXCAVATION.
4. CONTRACTOR IS RESPONSIBLE FOR ALL BYPASS PUMPING OR DEWATERING REQUIRED FOR STORM SEWER.
5. COMPLETE ALL ROADWAY DITCHES, GRADING.
6. INSTALL ALL STORM SEWER AS DETAILED.
7. INSTALL ALL WATER MAIN AS DETAILED WITHIN STAGE 3.
8. COMPLETE ROADWAY PAVEMENT AND PATCHING AS DETAILED.
9. COMPLETE ALL EROSION CONTROL AS SHOWN ON 'RC' SHEETS.
10. ANY ALTERATIONS TO THE STAGING PLAN SHOWN SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.
11. TEMPORARY ROAD CLOSURES ALLOWED FOR INSTALLATION OF ROADWAY CULVERTS AND OPEN TRENCHED WATER MAIN CONSTRUCTION. BACKFILL AND PROVIDE TEMPORARY ROADWAY AGGREGATE (CLASS 'A', INCIDENTAL TO PATCHING) FOR TRAFFIC UNTIL PATCHING CAN BE COMPLETED. ONLY ONE CROSSING AT A TIME SHALL BE SCHEDULED FOR CONSTRUCTION AND COMPLETED BEFORE CONTINUING TO NEXT CROSSING. ADJUST TRAFFIC CONTROL ACCORDINGLY FOR EACH CROSSING.
12. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES.

STAGE 3A (NORTH HALF OF E. RICHLAND ST. BETWEEN STA. 9+77 TO RADIO ROAD

1. COMPLETE ALL PAVEMENT PATCHING, PAVING RAY STREET INTERSECTION, AND PAVING ROTHMOOR ROAD INTERSECTION BEFORE CONSTRUCTION BEGINS ON STAGE 3B (SOUTH HALF OF E. RICHLAND STREET).
2. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES.

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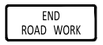
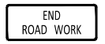
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER J.02	REVISED

TRAFFIC CONTROL SIGN TABULATIONS (DETOUR & TRAFFIC CONTROL)

SIGN	SIGN NO.	COLOR	SIZE	QUANITY
	G20-X1	BLACK ON ORANGE	66" X 60"	8
	G20-2A	BLACK ON ORANGE	48" X 24"	5
	R11-4	BLACK ON WHITE	48" X 30"	4
	M4-8	BLACK ON ORANGE	24" X 12"	10
	M6-1_L	BLACK ON ORANGE	21" X 15"	5
	M6-1_R	BLACK ON ORANGE	21" X 15"	2
	M6-3	BLACK ON ORANGE	21" X 15"	3
	T3-3	WHITE ON ORANGE	72" X 6"	6
	W20-2	BLACK ON ORANGE	48" X 48"	5
	W20-3	BLACK ON ORANGE	48" X 48"	8
	CUSTOM	BLACK ON ORANGE	24" X 6"	10

TRAFFIC CONTROL SIGN TABULATIONS (STD RD PLAN TC-212)

SIGN	SIGN NO.	COLOR	SIZE	QUANITY
	G20-2A	BLACK ON ORANGE	48" X 24"	2
	W20-1	BLACK ON ORANGE	48" X 48"	2
	W20-4	BLACK ON ORANGE	48" X 48"	2
	W20-7A	BLACK ON ORANGE	48" X 48"	2

TRAFFIC CONTROL SIGN TABULATIONS (STD RD PLAN TC-252)

SIGN	SIGN NO.	COLOR	SIZE	QUANITY
	W20-3	BLACK ON ORANGE	48" X 48"	1
	W20-3	BLACK ON ORANGE	48" X 48"	1

GENERAL NOTES:

1. SIGNS MAYBE RELOCATED AS NEEDED FOR TRAFFIC CONTROL AS CONSTRUCTION IS COMPLETED IN EACH STAGE OF CONSTRUCTION.

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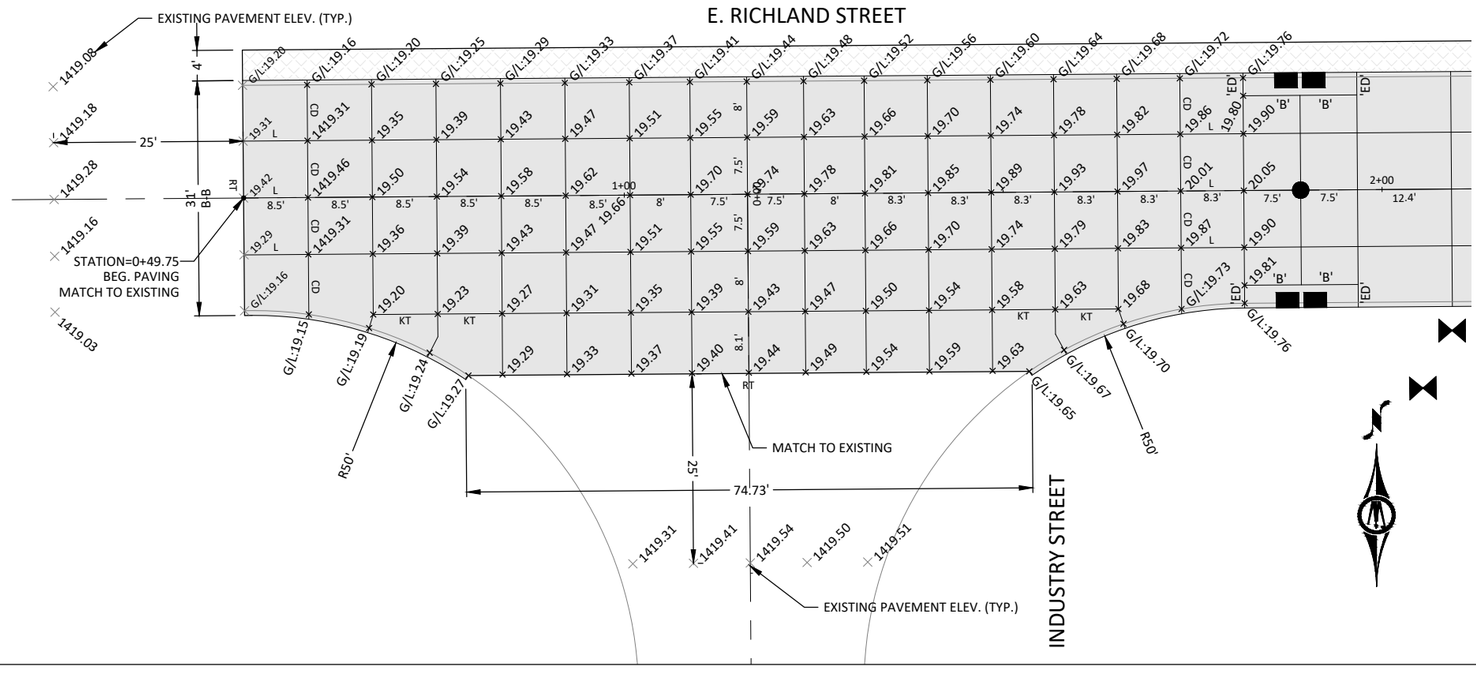

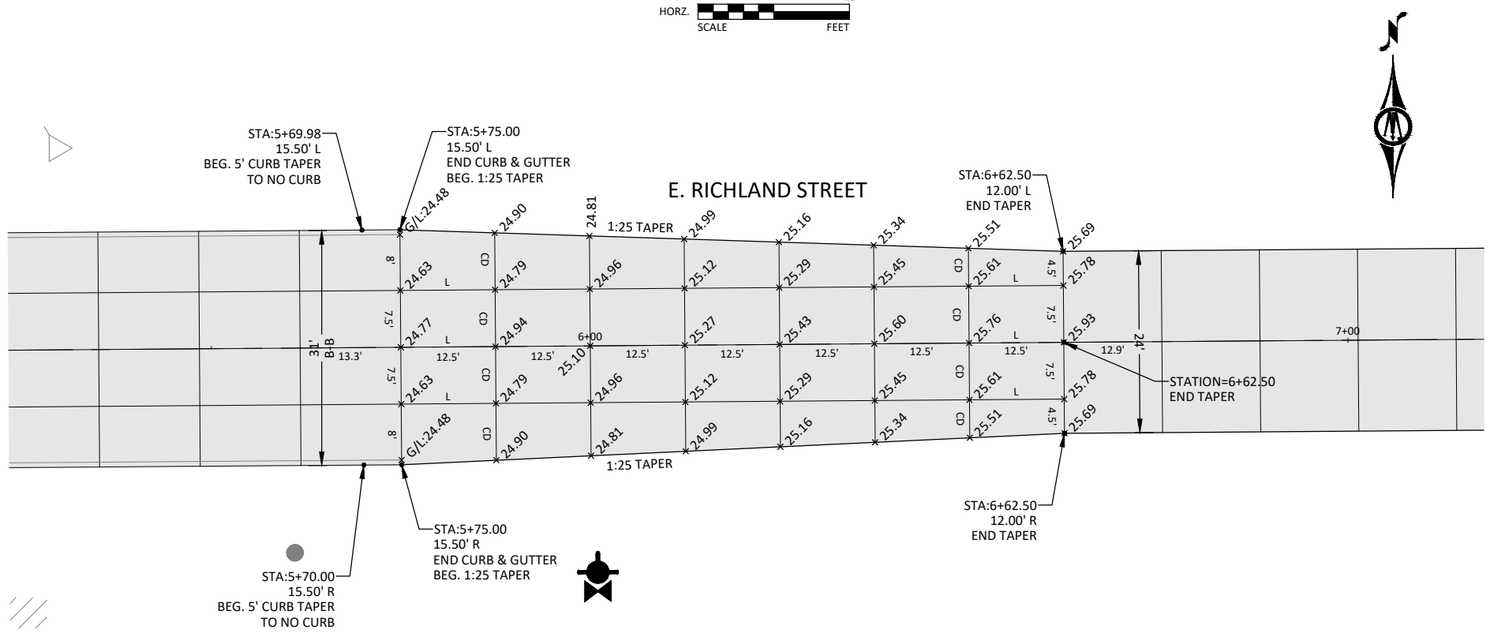

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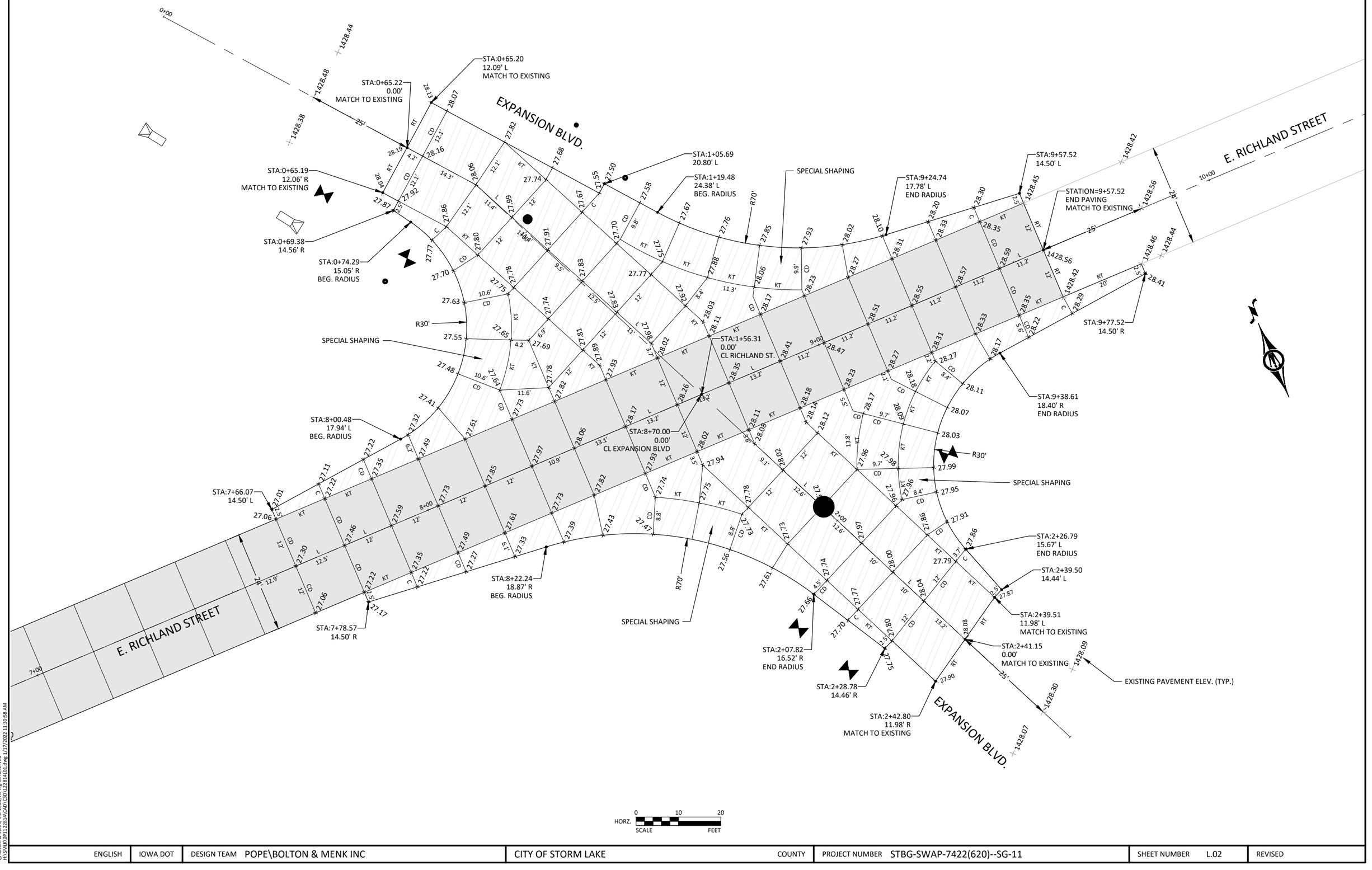
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER L.01	REVISED



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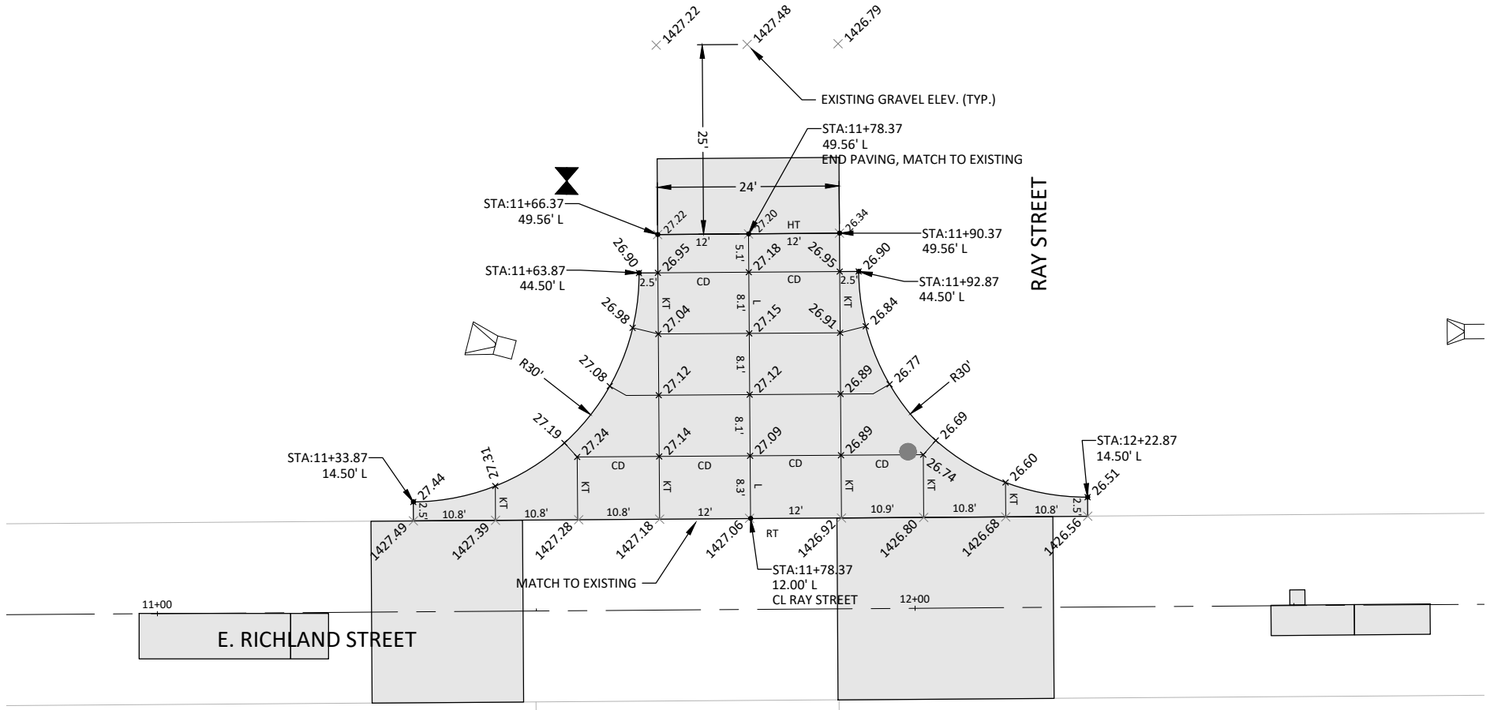
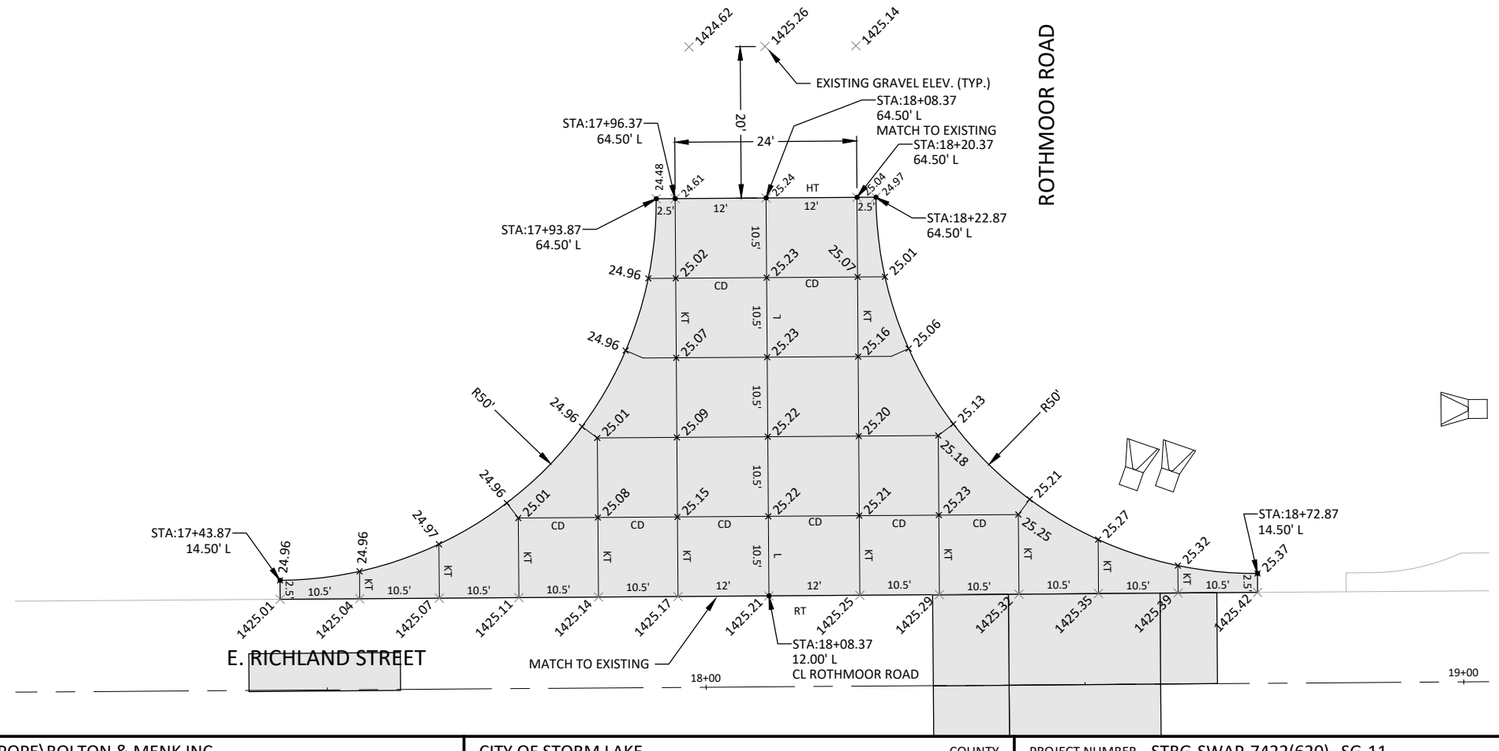
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER L.02	REVISED





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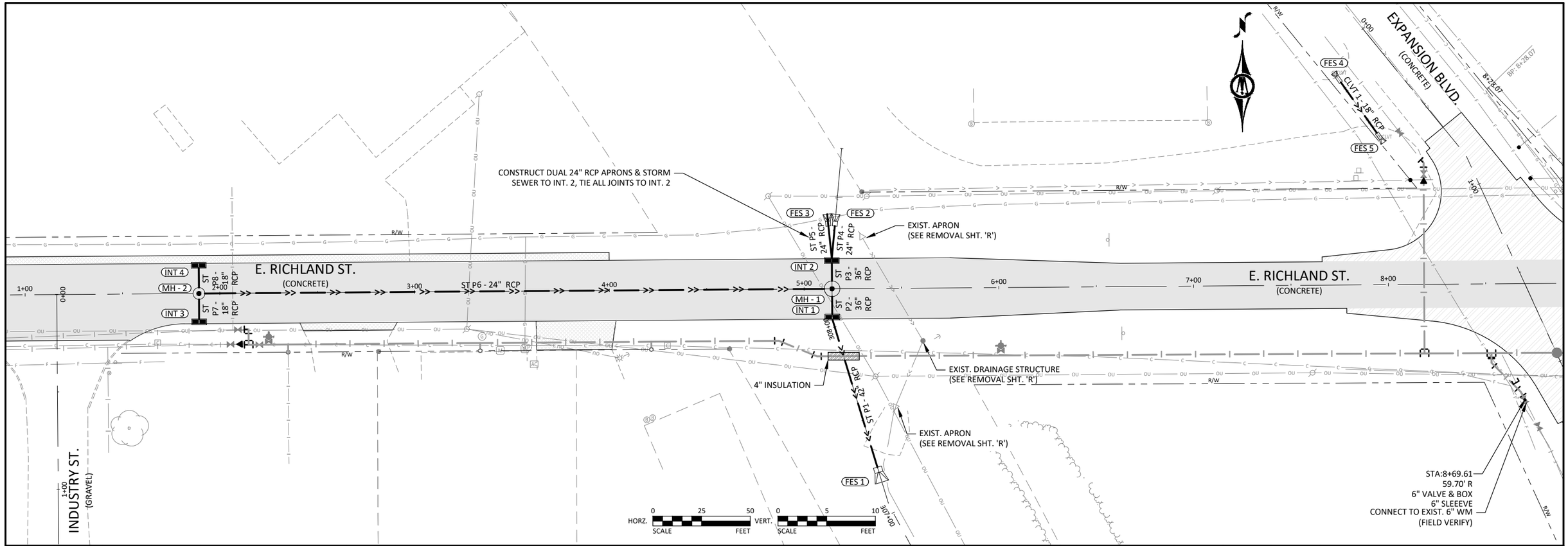
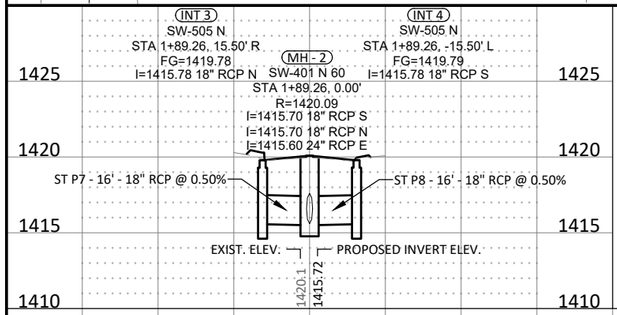
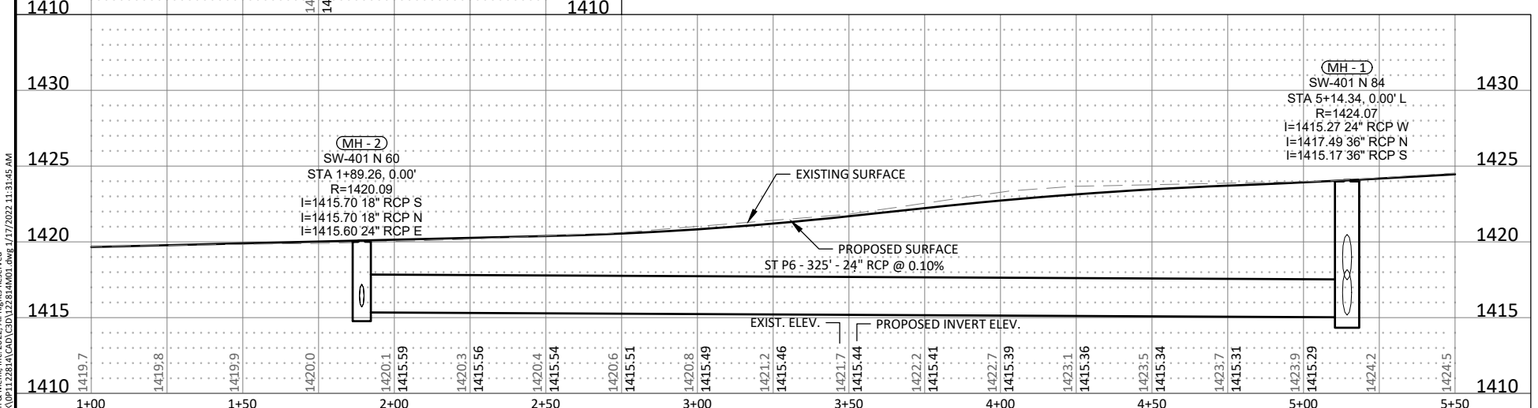
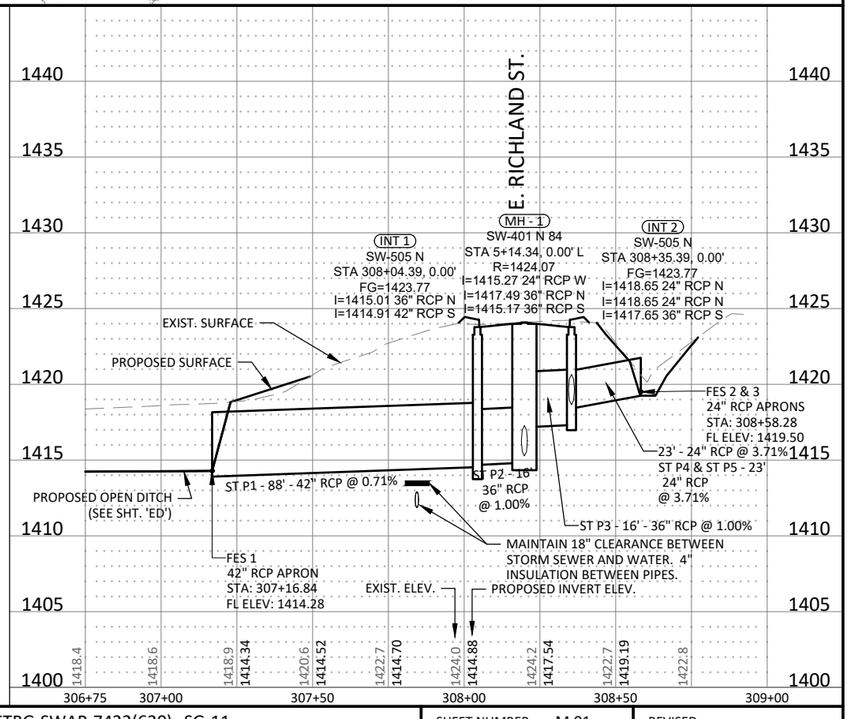
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER L.03	REVISED



NOTES:
1. PROVIDE MINIMUM 18 INCH VERTICAL SEPARATION BETWEEN ALL STORM, SANITARY, AND WATER MAIN CROSSINGS, INCIDENTAL TO WATER MAIN.







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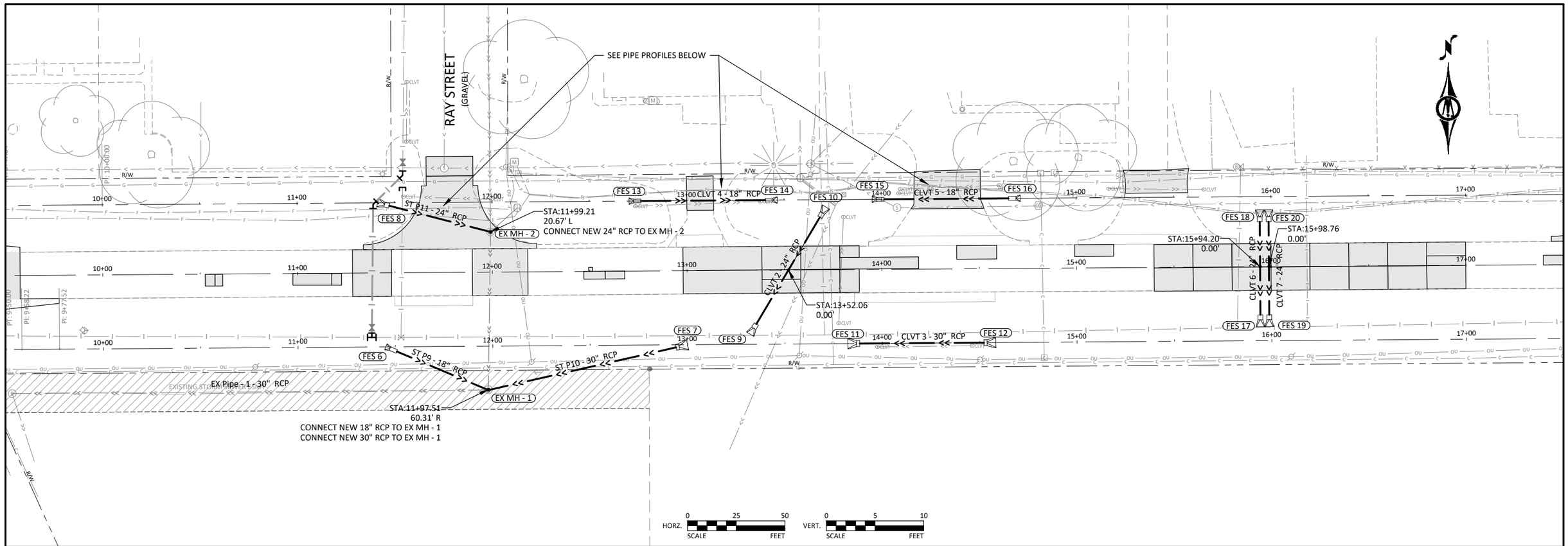
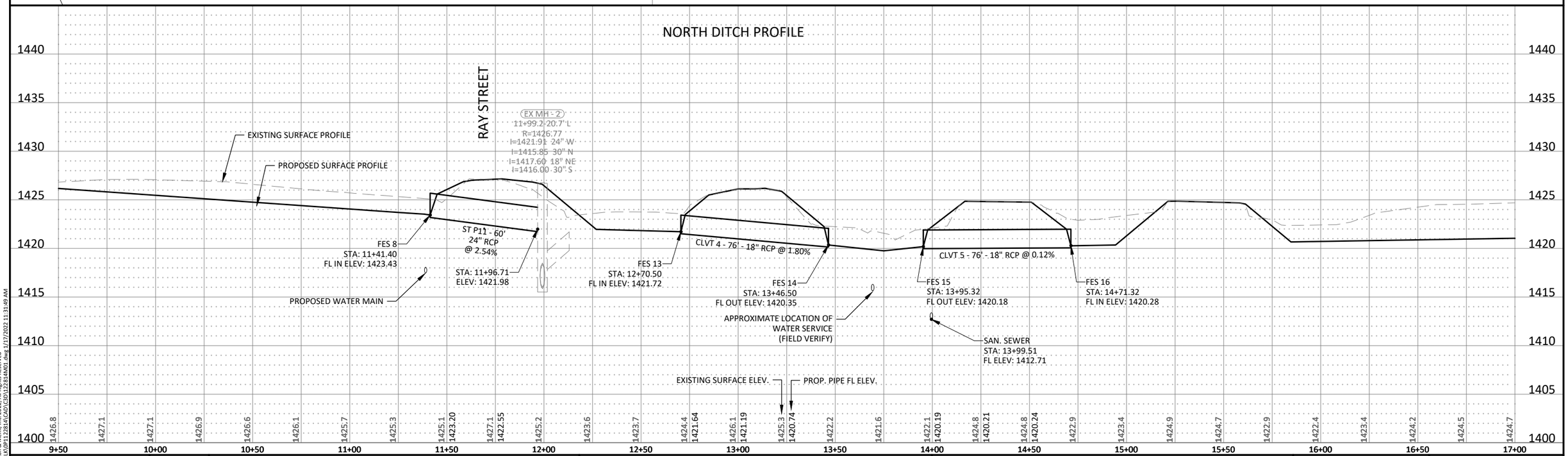
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER M.01	REVISED





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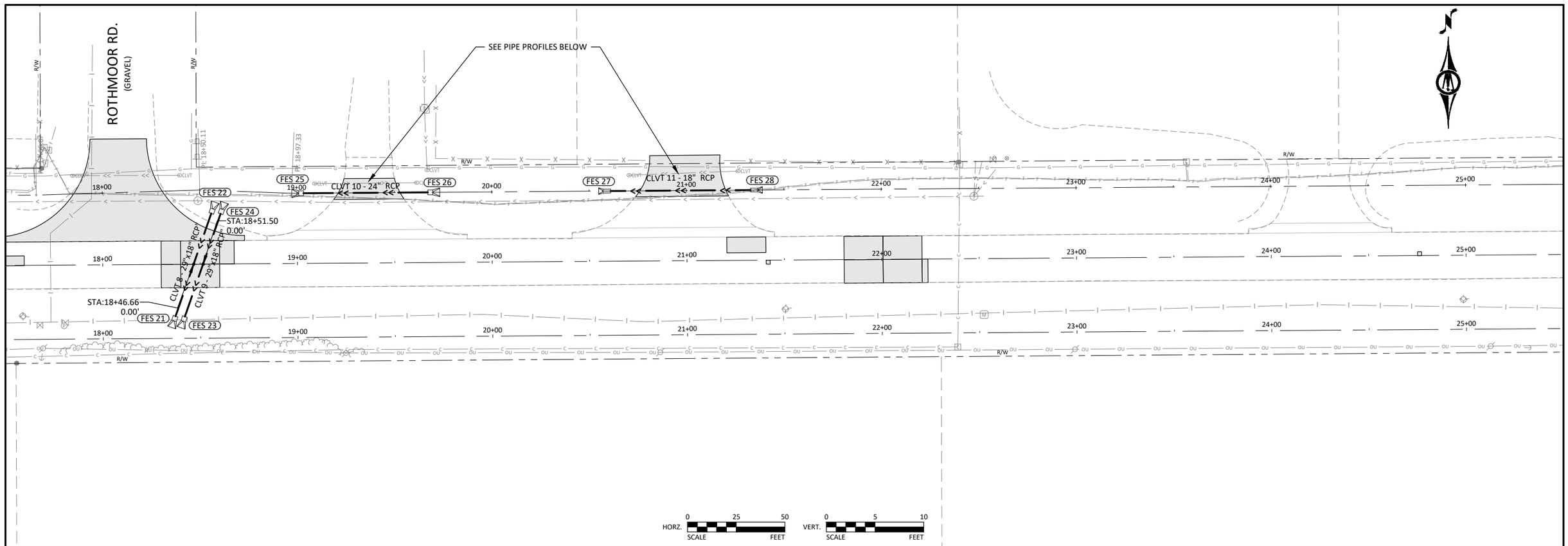
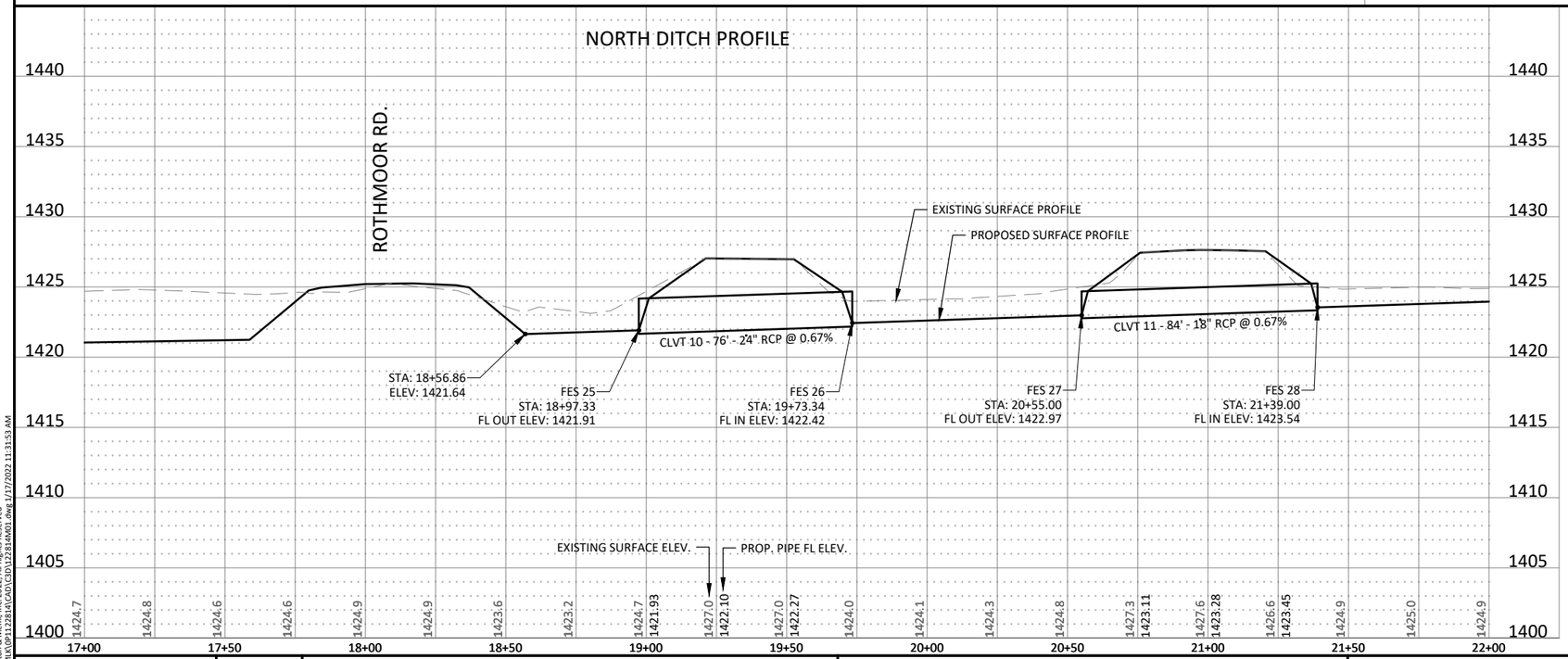
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER M.02	REVISED





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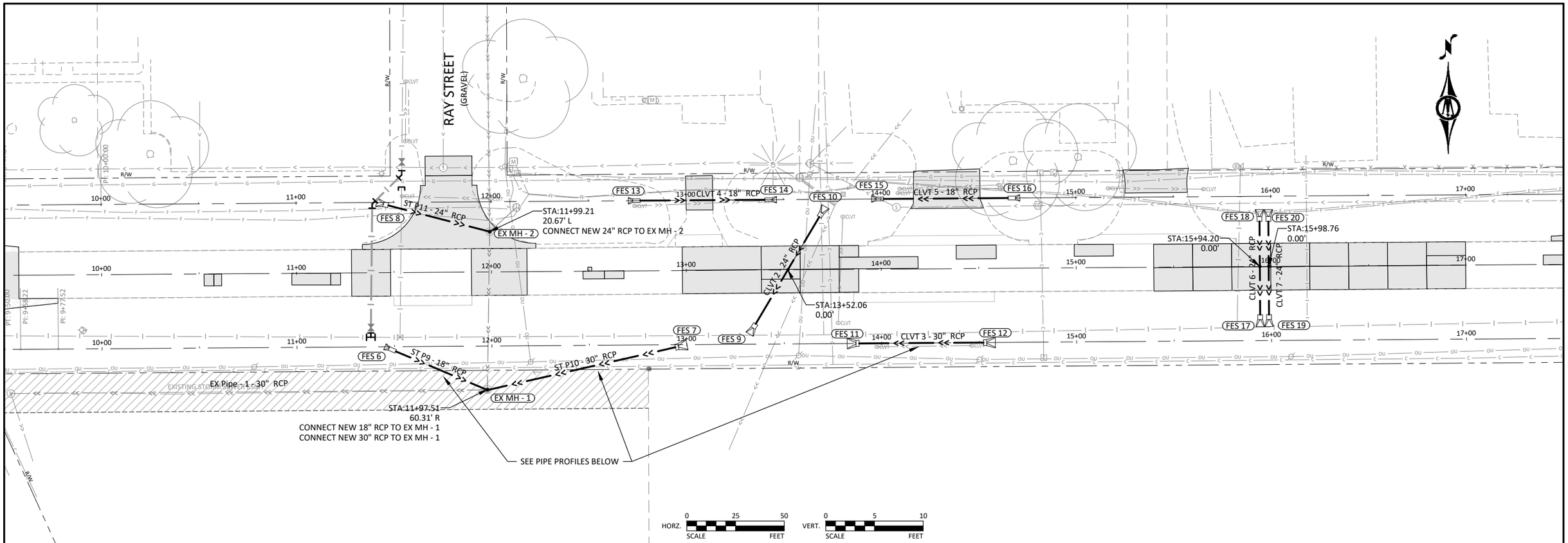
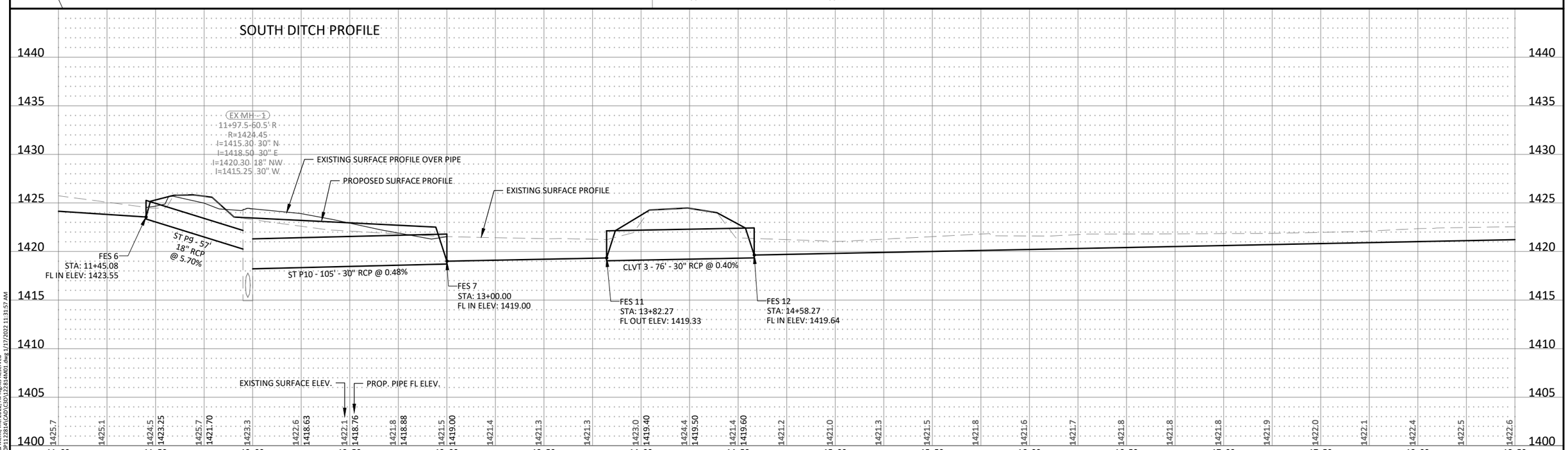
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER M.03	REVISED





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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER M.04	REVISED

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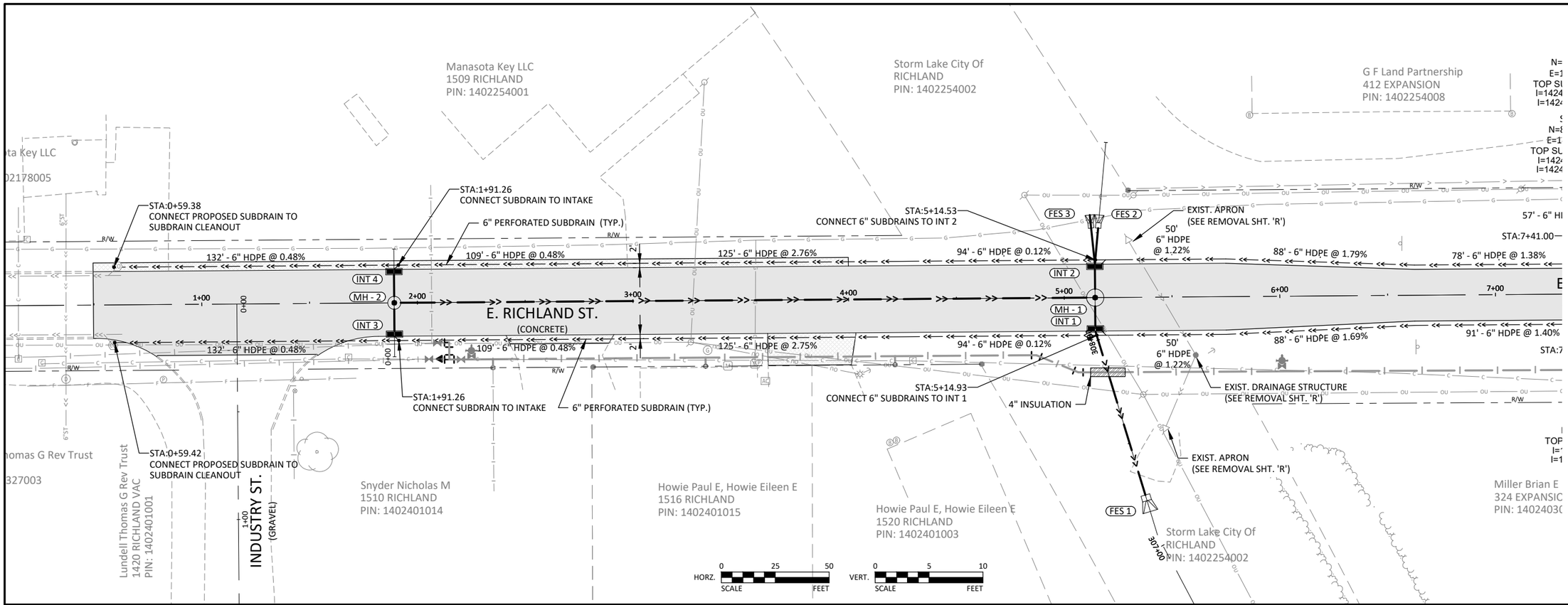
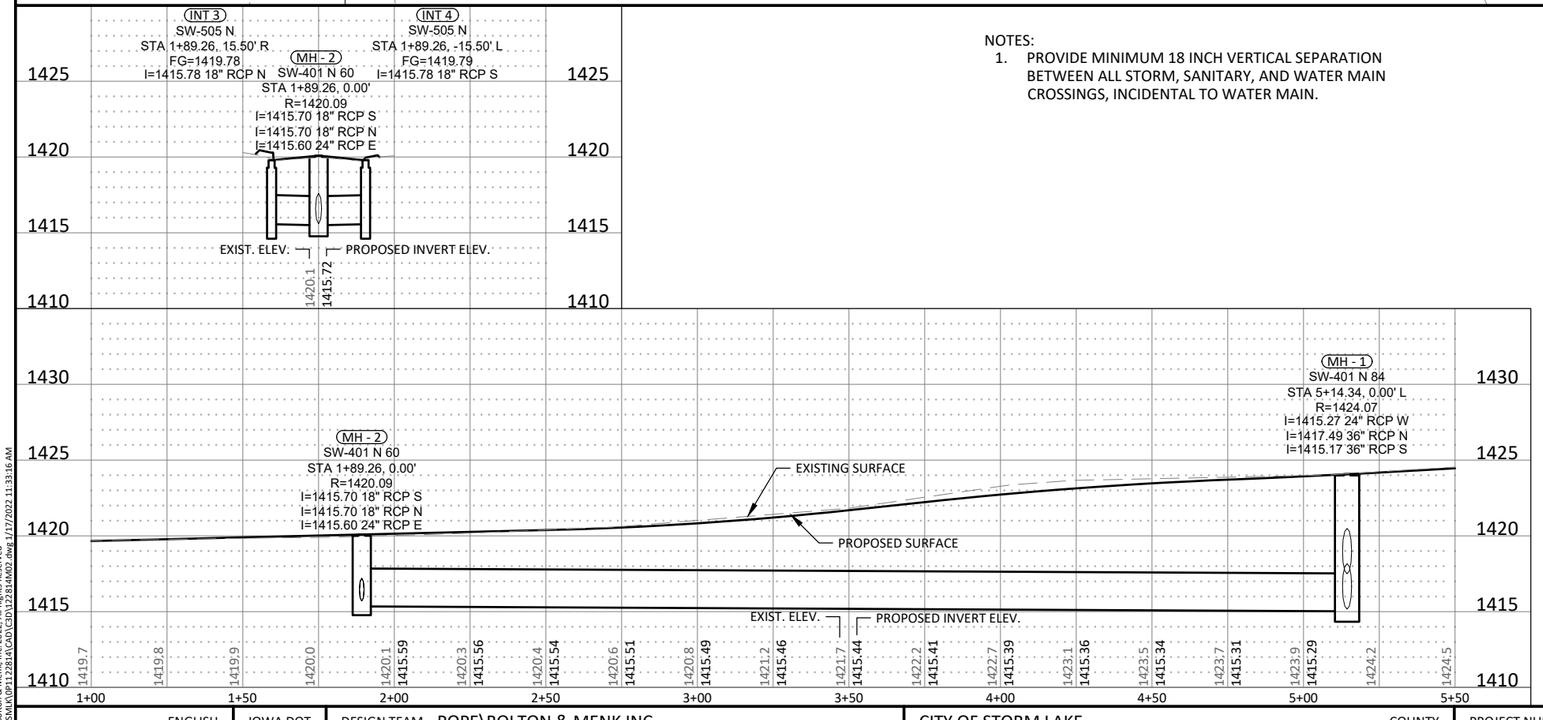
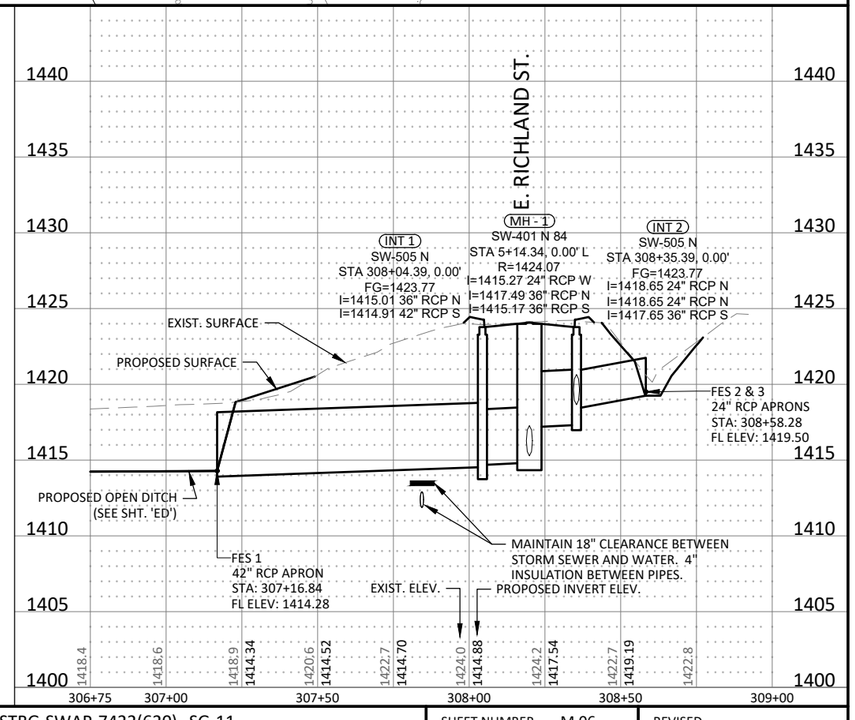
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER M.05	REVISED



NOTES:

1. PROVIDE MINIMUM 18 INCH VERTICAL SEPARATION BETWEEN ALL STORM, SANITARY, AND WATER MAIN CROSSINGS, INCIDENTAL TO WATER MAIN.





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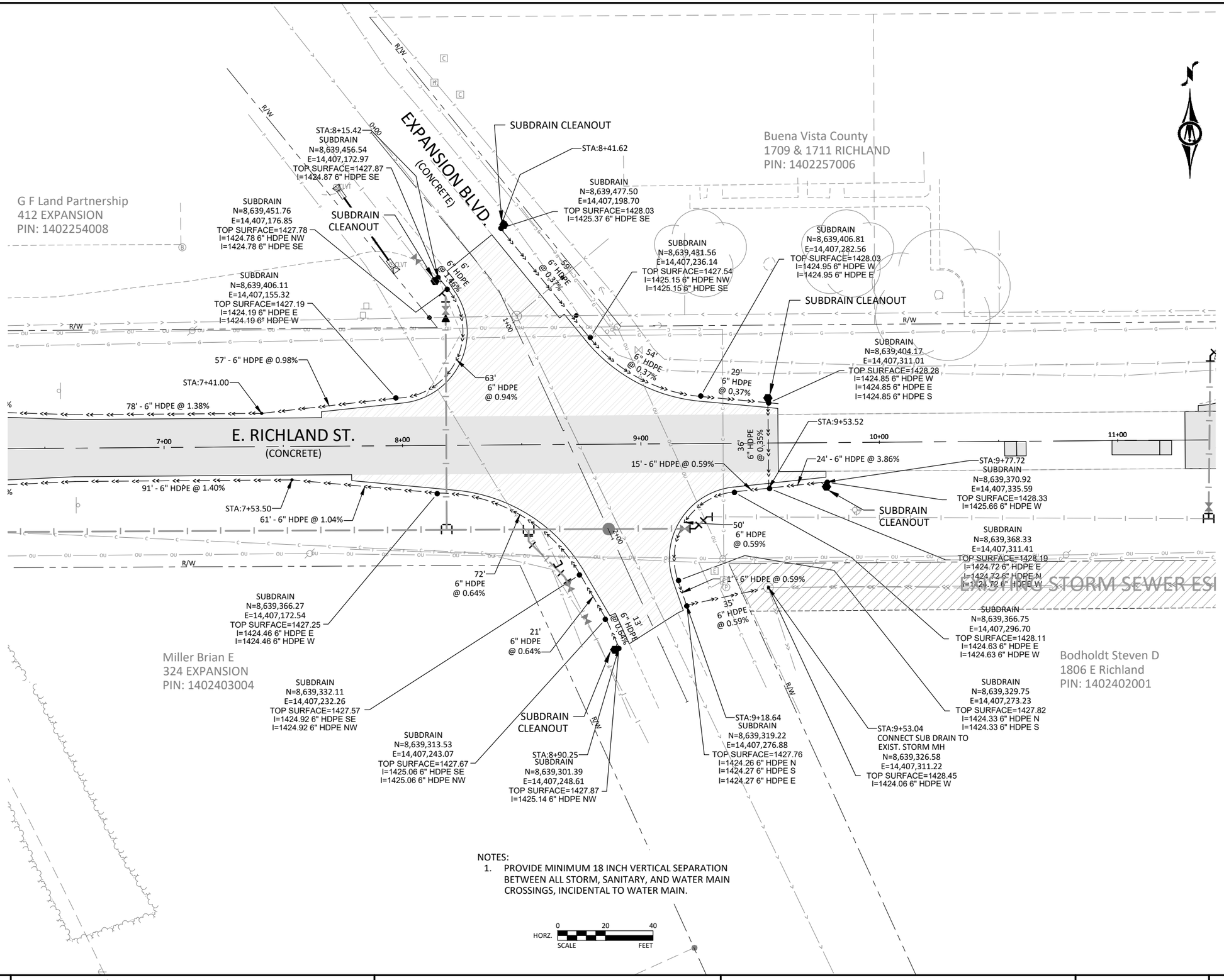
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER M.06	REVISED



NOTES:

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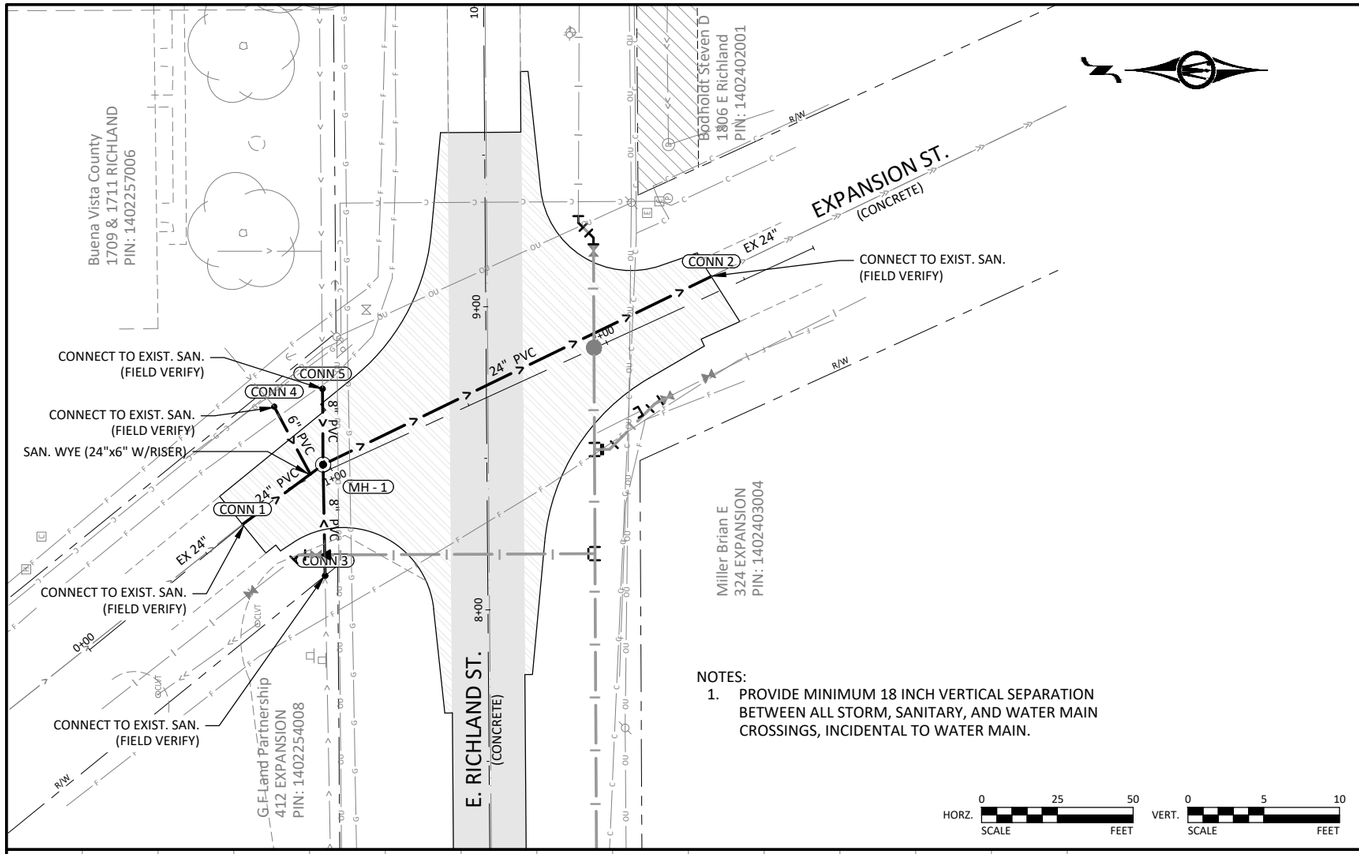
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER M.07	REVISED

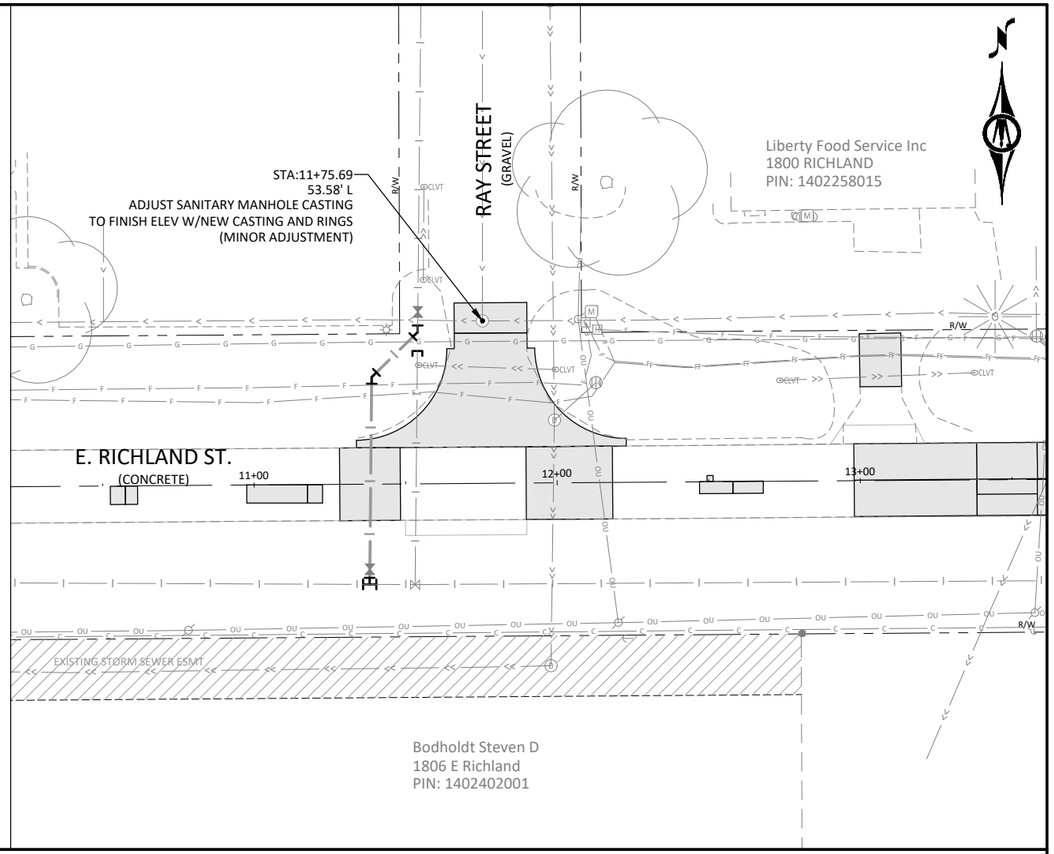


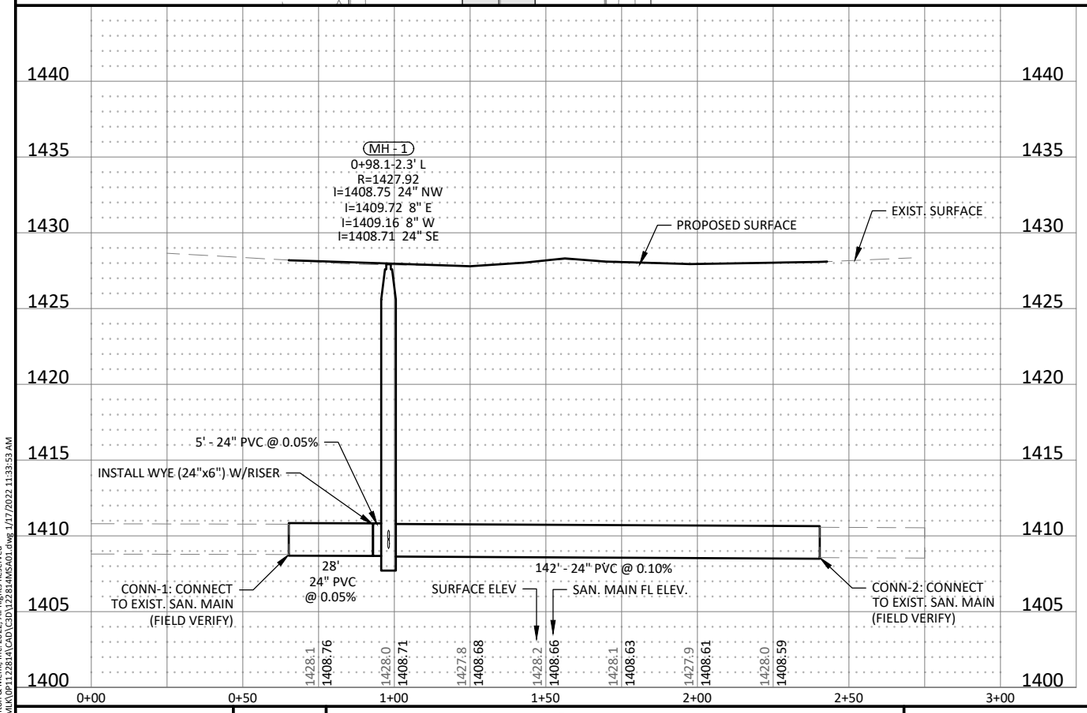
NOTES:

1. PROVIDE MINIMUM 18 INCH VERTICAL SEPARATION BETWEEN ALL STORM, SANITARY, AND WATER MAIN CROSSINGS, INCIDENTAL TO WATER MAIN.

HORZ. SCALE 0 25 50 FEET

VERT. SCALE 0 5 10 FEET





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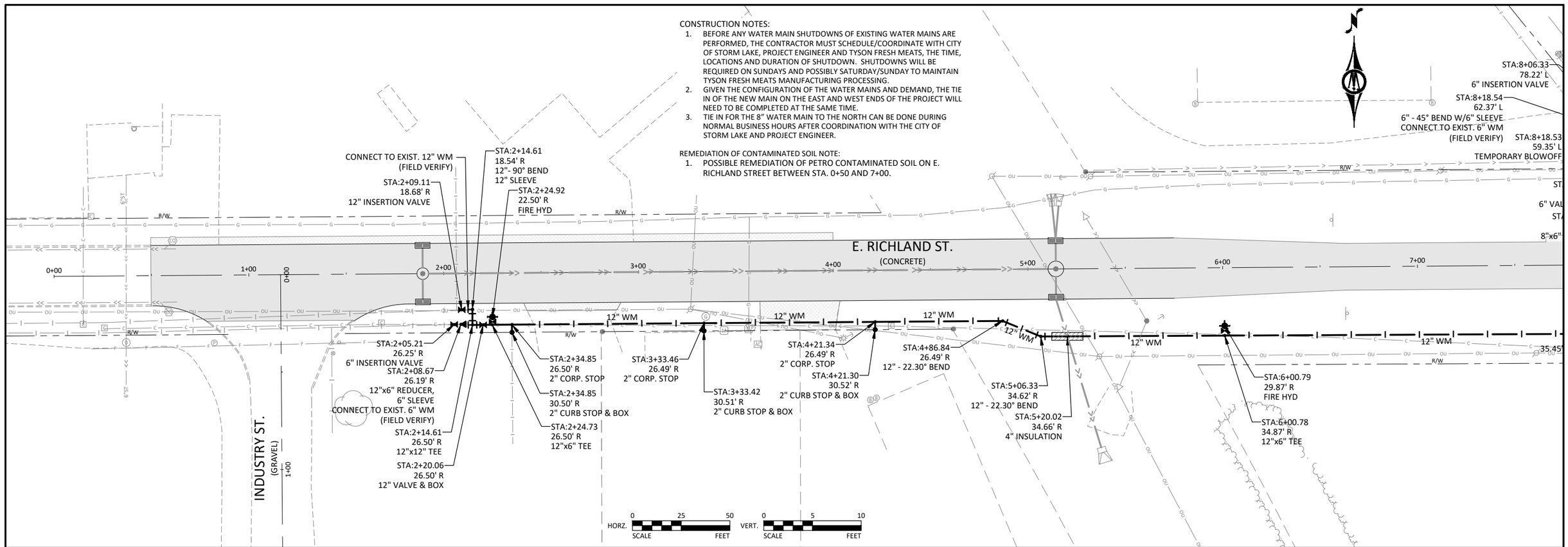
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER MSA.01	REVISED

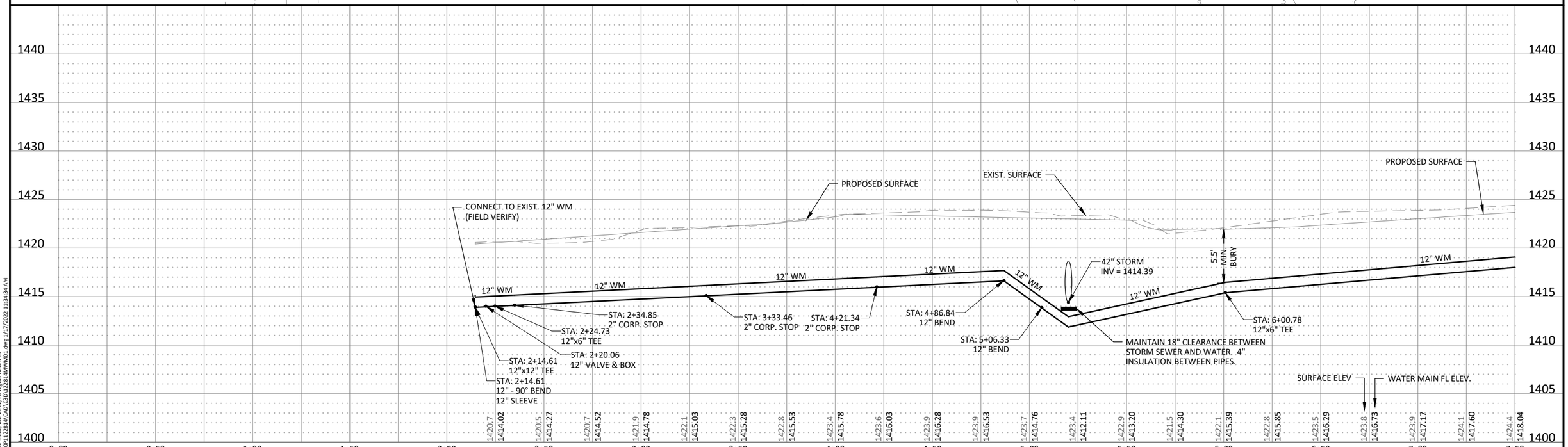
CONSTRUCTION NOTES:

1. BEFORE ANY WATER MAIN SHUTDOWNS OF EXISTING WATER MAINS ARE PERFORMED, THE CONTRACTOR MUST SCHEDULE/COORDINATE WITH CITY OF STORM LAKE, PROJECT ENGINEER AND TYSON FRESH MEATS, THE TIME, LOCATIONS AND DURATION OF SHUTDOWN. SHUTDOWNS WILL BE REQUIRED ON SUNDAYS AND POSSIBLY SATURDAY/SUNDAY TO MAINTAIN TYSON FRESH MEATS MANUFACTURING PROCESSING.
2. GIVEN THE CONFIGURATION OF THE WATER MAINS AND DEMAND, THE TIE IN OF THE NEW MAIN ON THE EAST AND WEST ENDS OF THE PROJECT WILL NEED TO BE COMPLETED AT THE SAME TIME.
3. TIE IN FOR THE 8" WATER MAIN TO THE NORTH CAN BE DONE DURING NORMAL BUSINESS HOURS AFTER COORDINATION WITH THE CITY OF STORM LAKE AND PROJECT ENGINEER.

REMEDIATION OF CONTAMINATED SOIL NOTE:

1. POSSIBLE REMEDIATION OF PETRO CONTAMINATED SOIL ON E. RICHLAND STREET BETWEEN STA. 0+50 AND 7+00.





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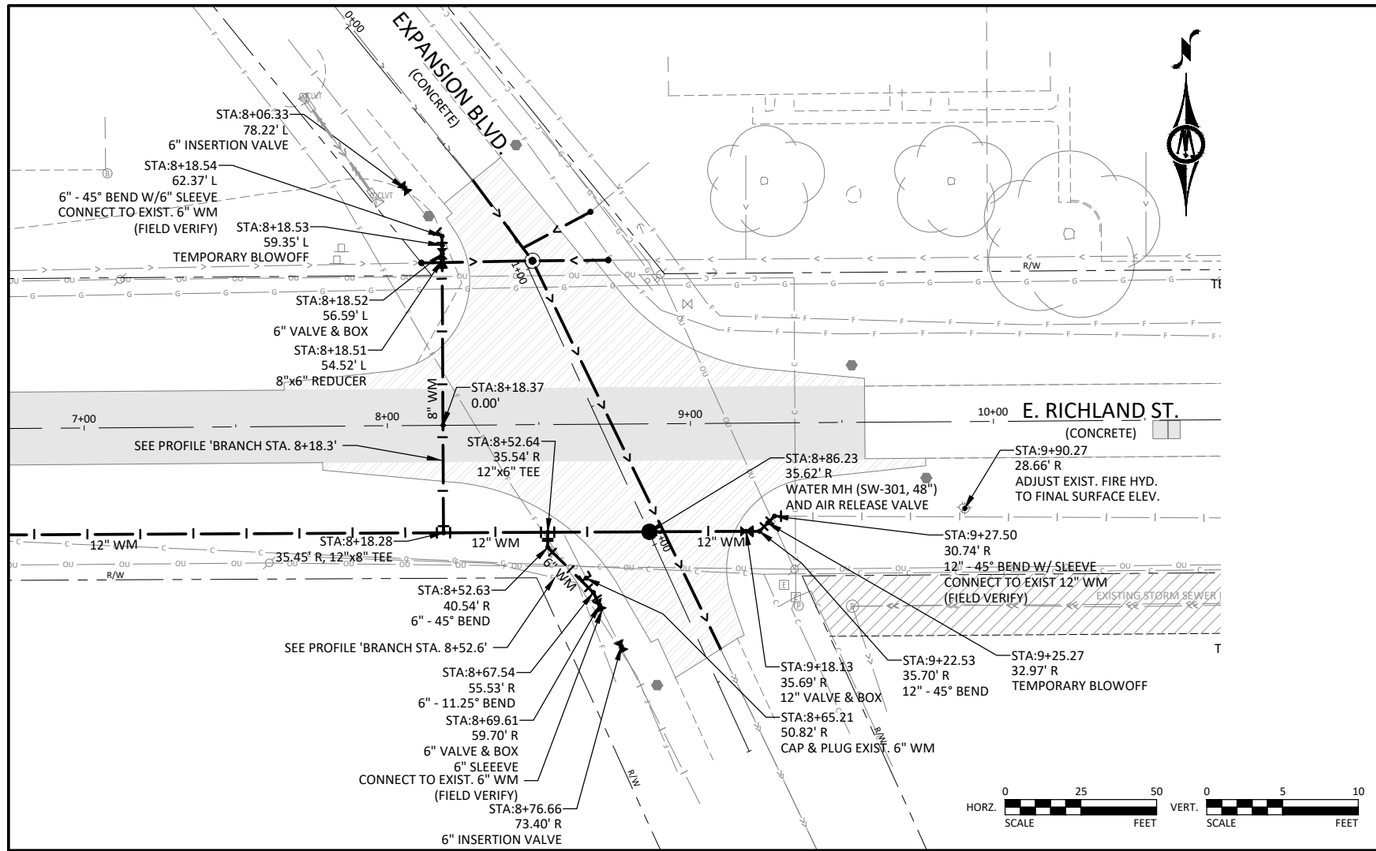
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER MWM.01	REVISED



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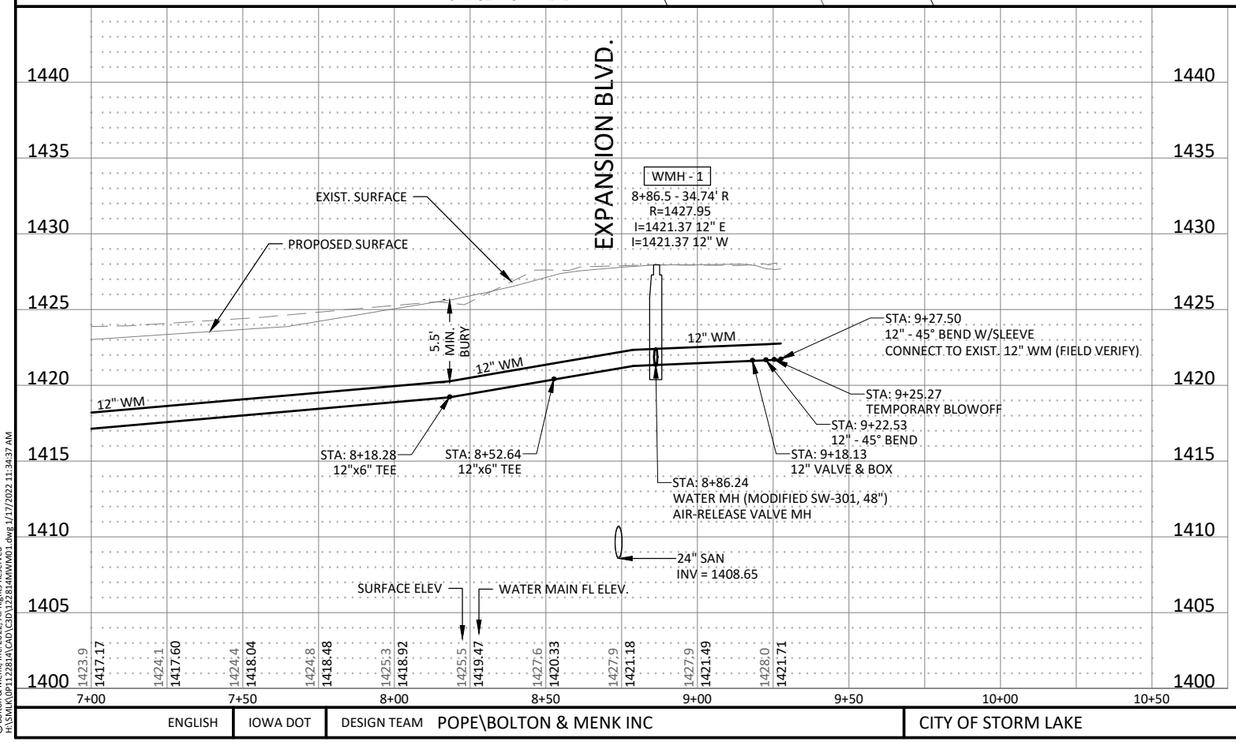
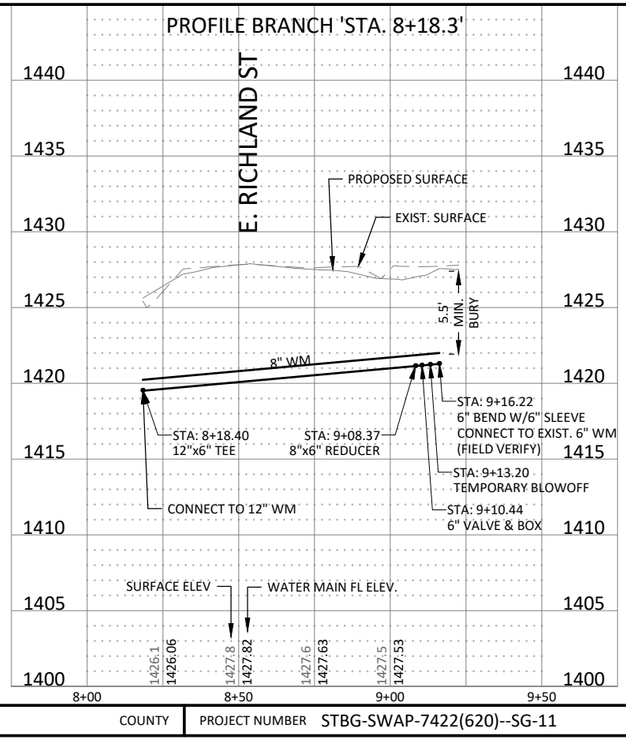
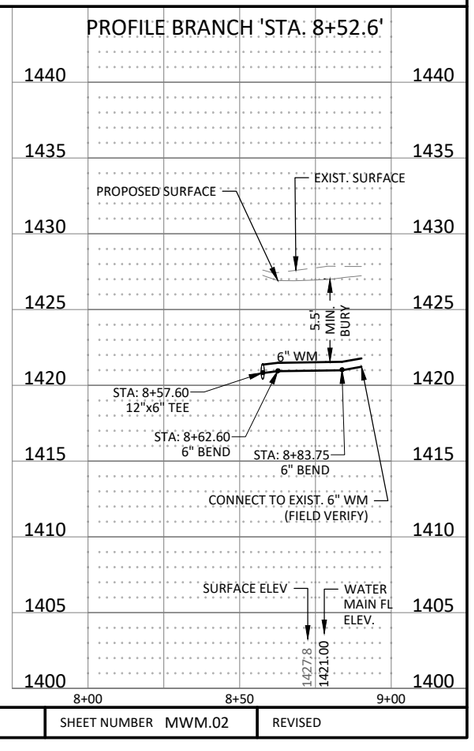
AIR RELEASE MANHOLE NOTE:

1. SEE SHEET B.03 FOR WATER MAIN MANHOLE, FOR HOUSING AIR RELEASE VALVE.







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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER MWM.02	REVISED

RAY STREET
(GRAVEL)

ROTHMOOR ROAD
(GRAVEL)

E. RICHLAND ST.
(CONCRETE)

STA:11+54.42
56.71' L
6" INSERTION VALVE

STA:11+54.30
50.49' L
6" - 45° BEND
6" - SLEEVE

STA:11+52.73
48.52' L
TEMPORARY BLOWOFF

STA:11+54.20
43.82' L
CAP & PLUG EXIST. 6" WM

STA:11+39.05
35.30' L
6" - 45° BEND

STA:11+38.46
0.00'

SEE PROFILE 'BRANCH STA. 11+38.5'

STA:11+37.91
33.07' R
12"x6" TAPPING SLEEVE

STA:11+37.99
28.07' R
6" VALVE & BOX

FIELD VERIFY EXIST. VALVE SIZE.
~~IF VALVE IS ON 6" MAIN, CLOSE~~
TO ABANDON AND REMOVE BOX.
(INCIDENTAL TO WATER MAIN)

STA:13+84.00
33.45' R
ADJUST EXIST. FIRE HYD.
TO FINAL SURFACE ELEV.

STA:17+59.02
26.77' R
ADJUST EXIST. FIRE HYD.
TO FINAL SURFACE ELEV.

HORZ. SCALE 0 25 50 FEET
VERT. SCALE 0 5 10 FEET

CONSTRUCTION NOTES:
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PROFILE BRANCH 'STA. 11+38.5'

E. RICHLAND ST

PROPOSED SURFACE

EXIST. SURFACE

5.5' MIN. BURY

6" WM

6" WM

STA: 11+38.50
12"x6" TAPPING SLEEVE
CONNECT TO EXIST. 12"WM
(FIELD VERIFY)

STA: 12+06.87
6" BEND

STA: 12+28.08
6" BEND
CONNECT TO EXIST. 6" WM
(FIELD VERIFY)

SURFACE ELEV

WATER MAIN FL ELEV.

	11+00	11+50	12+00	12+50
SURFACE ELEV	1426.8	1427.6	1425.6	1425.2
WATER MAIN FL ELEV.	1418.13	1417.86	1417.59	1418.80

1440 1435 1430 1425 1420 1415 1410 1405 1400

E. RICHLAND ST.
(CONCRETE)

STA:21+50.32
26.30' R
ADJUST EXIST. FIRE HYD.
TO FINAL SURFACE ELEV.

STA:24+98.50
22.99' R
ADJUST EXIST. FIRE HYD.
TO FINAL SURFACE ELEV.

RADIO ROAD
(CONCRETE)

1113

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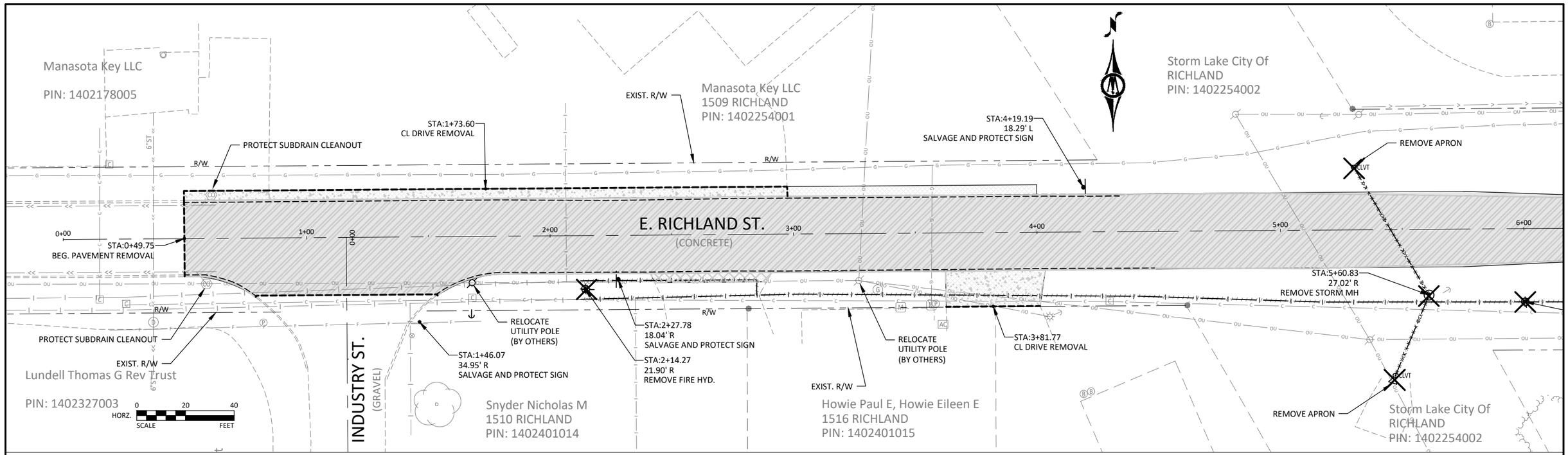
ENGLISH	IOWA DOT	DESIGN TEAM	POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER	STBG-SWAP-7422(620)--SG-11	SHEET NUMBER	MWM.03	REVISED



REMOVE STRUCTURE

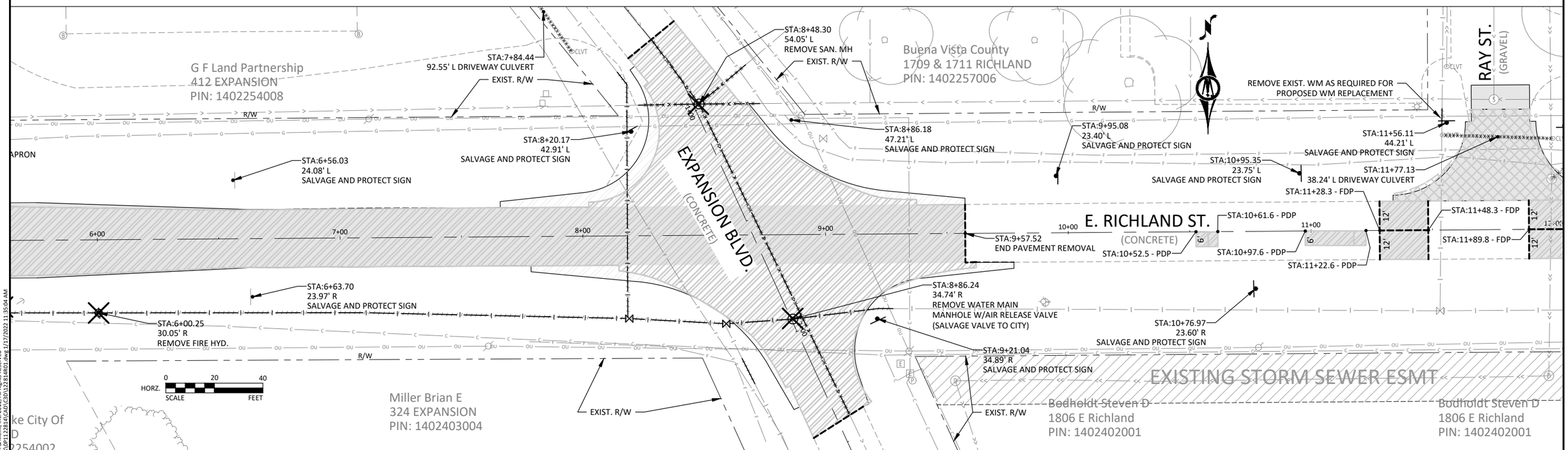
REMOVE CONC. PAVEMENT

REMOVE CONC. DRIVEWAY

REMOVE GRAVEL DRIVEWAY

REMOVE OR ABANDON WATER MAIN
REMOVE SANITARY SEWER
REMOVE STORM SEWER
FULL DEPTH SAWCUT
FDP FULL DEPTH PATCH REMOVAL
PDP PARTIAL DEPTH PATCH REMOVAL

CONSTRUCTION NOTE:
1. ABANDON AND PLUG ALL LENGTHS OF WATER MAIN PIPE NOT MARKED FOR REMOVAL.



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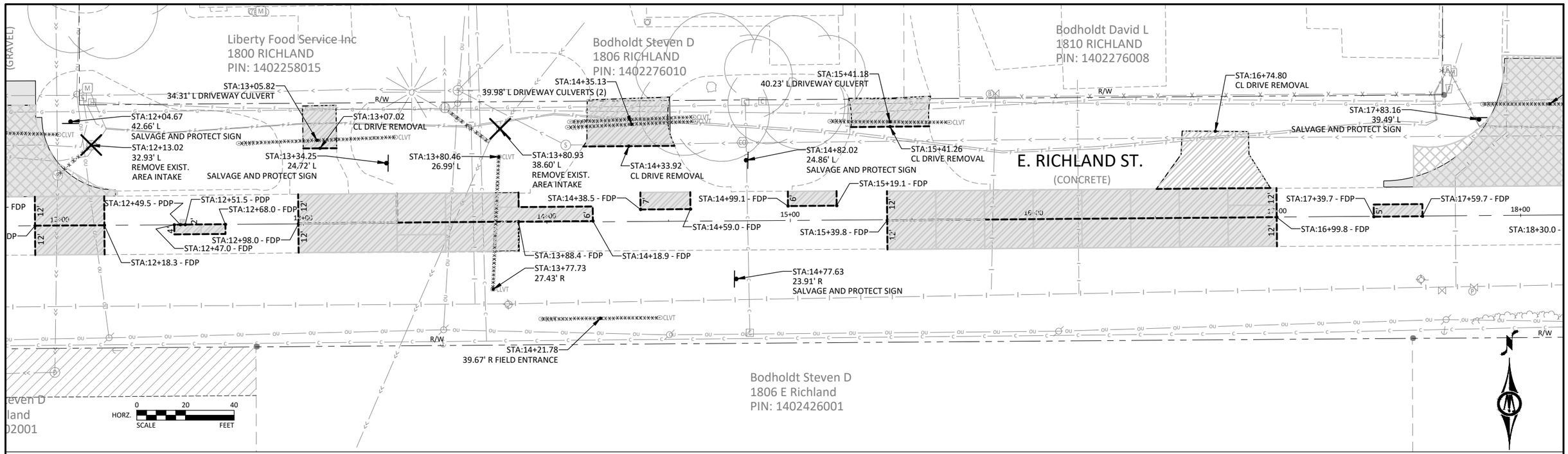

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REMOVE CONC. PAVEMENT

REMOVE CONC. DRIVEWAY

REMOVE GRAVEL DRIVEWAY

REMOVE OR ABANDON WATER MAIN
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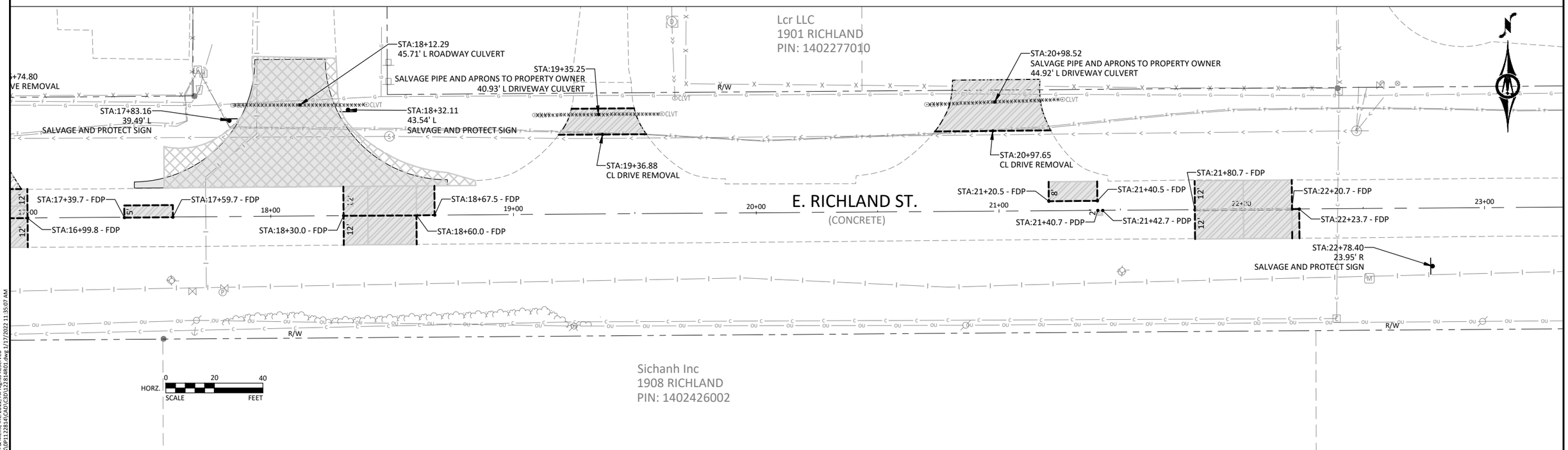

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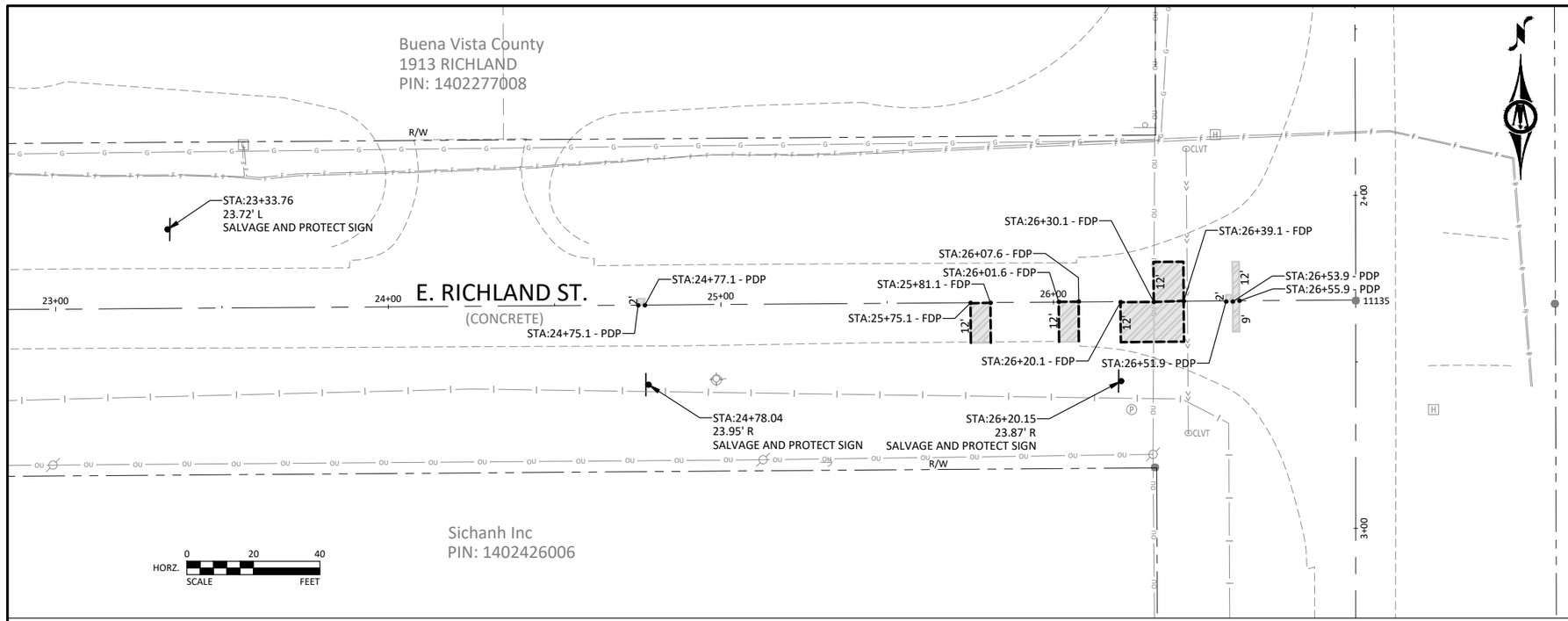

REMOVE STRUCTURE

REMOVE CONC. PAVEMENT

REMOVE CONC. DRIVEWAY

REMOVE GRAVEL DRIVEWAY

REMOVE OR ABANDON WATER MAIN
REMOVE SANITARY SEWER
REMOVE STORM SEWER
FULL DEPTH SAWCUT

FDP FULL DEPTH PATCH REMOVAL
PDP PARTIAL DEPTH PATCH REMOVAL

CONSTRUCTION NOTE:
1. ABANDON AND PLUG ALL LENGTHS OF WATER MAIN PIPE NOT MARKED FOR REMOVAL.

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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER R.03	REVISED

POLLUTION PREVENTION PLAN

This Data Entry Sheet fills Tab 110-12L effective 10-20-20

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITIES

A. Designer:
1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required.

B. Contractor:
1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).
5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2.
6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.

C. Subcontractors:
1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or performing work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Implement good housekeeping practices according to Paragraph III, C, 2.

D. RCE/Project Engineer:
1. Is Project Storm Water Manager.
2. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
3. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
4. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
5. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
6. Is familiar with the Project PPP and storm water site map.
7. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
8. Is signature authority on Notice of Discontinuation.
9. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).
10. Makes information to determine permit compliance available to the DNR upon their request.

E. Inspector:
1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
2. Makes information to determine permit compliance available to the DNR upon their request.
3. Conducts joint required inspections of the site with the contractor/subcontractor.
4. Completes an inspection report after each inspection.
5. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

A. This Pollution Prevention Plan (PPP) is for the construction of a street and utilities.
B. This PPP covers approximately 7.0 acres with an estimated 3.5 acres being disturbed. The portion of the PPP covered by this contract has 3.5 acres disturbed.
C. The PPP is located in an area of Galva - Primghar soil association. The estimated weighted average runoff coefficient number for this PPP after completion will be 0.65.
D. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including:
1. Drainage Patterns – Plan and Profile sheets and Situation plans.
2. Proposed Slopes – Cross Sections.
3. Areas of Soil Disturbance – Construction limits shown on Plan and Profile sheets.
4. Location of Structural Controls – Tabulations in C sheets.
5. Locations of Non-structural Controls – Tabulations in C sheets.
6. Locations of Stabilization Practices – Generally within construction limits shown on Plan and Profile sheets.
7. Surface Waters (including wetlands) – Project Location Map and Plan and Profile sheets.
8. Locations where Storm Water is Discharged – Plan and Profile sheets.

E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries.
F. Runoff from this work will flow into Strom Lake.

III. CONTROLS

A. The Contractor's ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.
B. Preserve vegetation in areas not needed for construction.
C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water monitoring inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.

1. EROSION AND SEDIMENT CONTROLS

a. Stabilization Practices
1. Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
2. Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
   a. Permanently ceased on any portion of the site, or
   b. Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
3. Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
4. Permanent and Temporary Stabilization practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets.
5. Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
6. Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Additional information may be found in Tabulations in the C or T sheets or is referenced in Section 2105 of Standard Specifications.

b. Structural Practices
1. Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.
2. Structural practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found in the B sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C sheets.

c. Storm Water Management
1. Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets. The installation of these devices may be subject to Section 404 of the Clean Water Act.

2. OTHER CONTROLS

a. Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive applicable laws, rules or regulations shall apply.
1. Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
2. Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
3. Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
4. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
5. Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean-up spills and prevent material discharges to the storm drain system and waters of the state.
6. Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
7. Concrete Grooving/Grinding Slurry - Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
8. Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
9. Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
10. Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.

3. APPROVED STATE OR LOCAL PLANS

During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES

The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS

A. Inspections shall be made jointly by the Contractor and the Contracting Authority at least once every seven calendar days. Storm water monitoring inspections will include:
1. Date of inspection.
2. Summary of the scope of the inspection.
3. Name and qualifications of the personnel making the inspection.
4. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
5. Major observations related to the implementation of the PPP.
6. Identification of corrective actions required to maintain or modify erosion and sediment control measures.

B. Include storm water site inspection reports in the amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

A. Base PPP - Initial Pollution Prevention Plan.
B. Amended PPP - Base PPP amended during construcion. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.
C. Fieldbook Entries – This contains the inspector's daily diary and bid item postings.
D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature
Josh Pope, P.E.
Infrastructure Engineer

Signature
Scott Olesen
Water Quality and Code Compliance Director

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NOTES:

1. ALL CATCH BASINS AND INLETS, BOTH EXISTING AND PROPOSED, SHALL HAVE INLET PROTECTION INSTALLED PRIOR TO DISTURBANCE AND REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AS NECESSARY THROUGHOUT THE PROJECT.
3. QUANTITY FOR INLET PROTECTION IS BASED ON INLET PROTECTION NEEDED FOR EACH STRUCTURE DURING THE COURSE OF THE PROJECT.
4. ALL DISTURBED AREAS THAT WILL NOT BE WORKED FOR MORE THAN 14 CALENDAR DAYS SHALL BE STABILIZED.

INLET PROTECTION

SILT FENCE/SILT FENCE DITCH CHECK

PROPOSED DRAINAGE

EXISTING DRAINAGE

STABILIZED CONSTRUCTION ENTRANCE

WOOD EXCELSIOR MAT (DITCH & SLOPE CONTROL) SEED & FERTILIZE, URBAN

WOOD EXCELSIOR MAT (DITCH & SLOPE CONTROL) SEED & FERTILIZE, RURAL

E. RICHLAND ST. (CONCRETE)

INDUSTRY ST. (CONCRETE)

EXPANSION BLVD. (CONCRETE)

STA:3+99.90 15.54' L

STA:5+16.43 36.08' L

STA:5+29.00 28.11' L

STA:5+12.22 37.04' L

STA:7+73.83 107.17' L

END CLASS 'E' RIP RAP STA:307+23.25 0.00'

STA:307+19.80 18.32' R

STA:5+45.20 91.92' R

STA:307+20.58 17.53' L

0 20 40 HORZ. SCALE FEET

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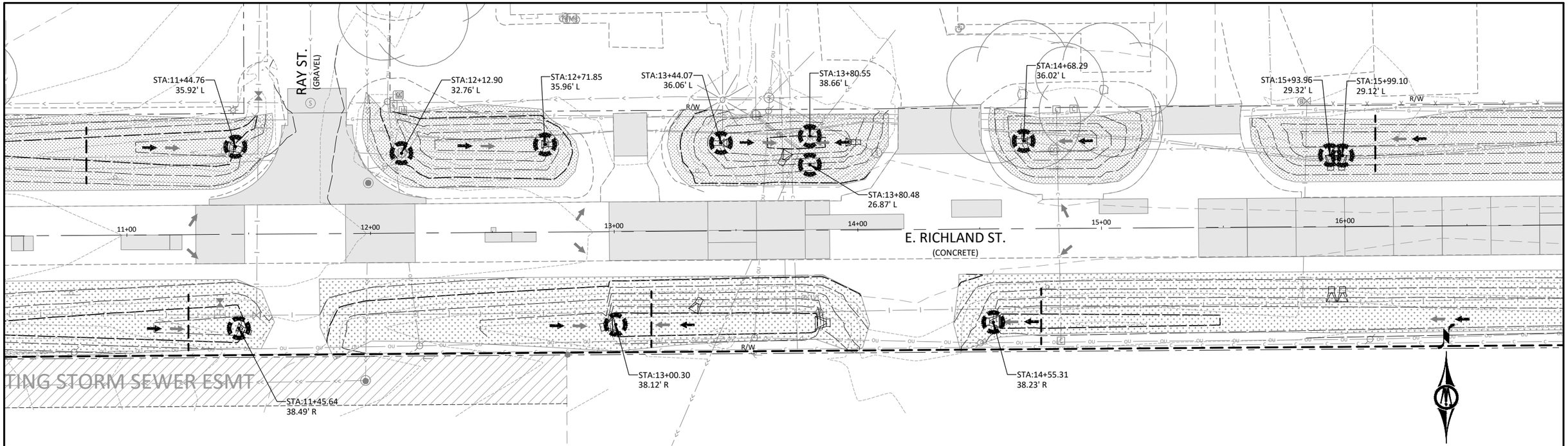
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER RC.02	REVISED



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SILT FENCE/SILT FENCE DITCH CHECK

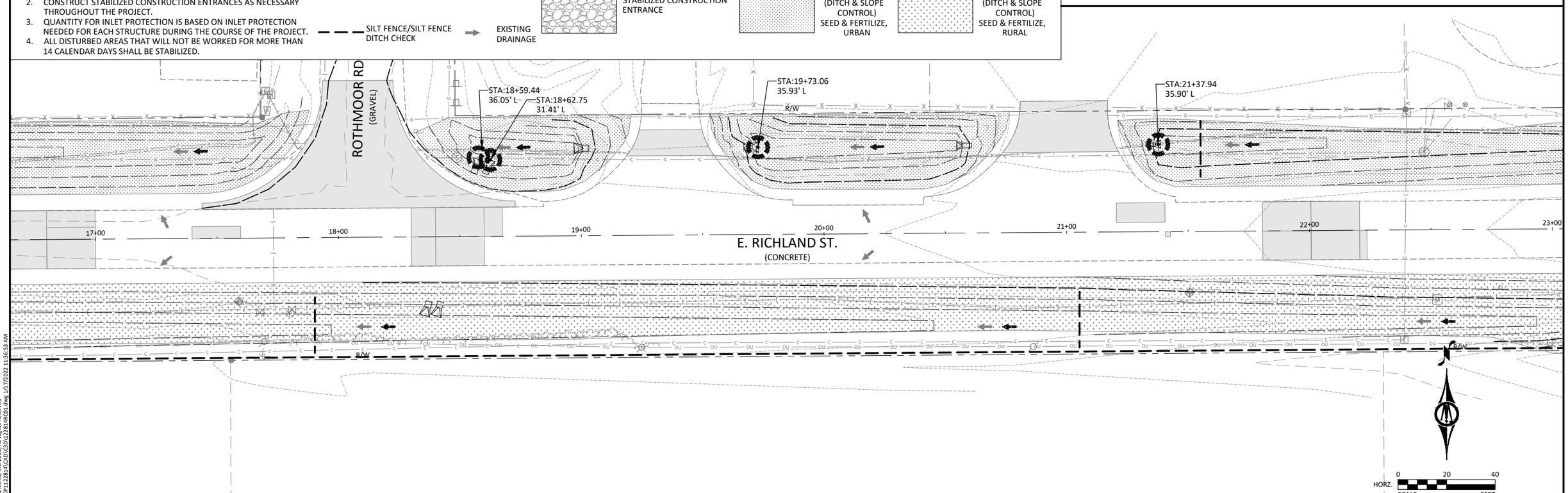
PROPOSED DRAINAGE

EXISTING DRAINAGE

STABILIZED CONSTRUCTION ENTRANCE

WOOD EXCELSIOR MAT (DITCH & SLOPE CONTROL) SEED & FERTILIZE, URBAN

WOOD EXCELSIOR MAT (DITCH & SLOPE CONTROL) SEED & FERTILIZE, RURAL



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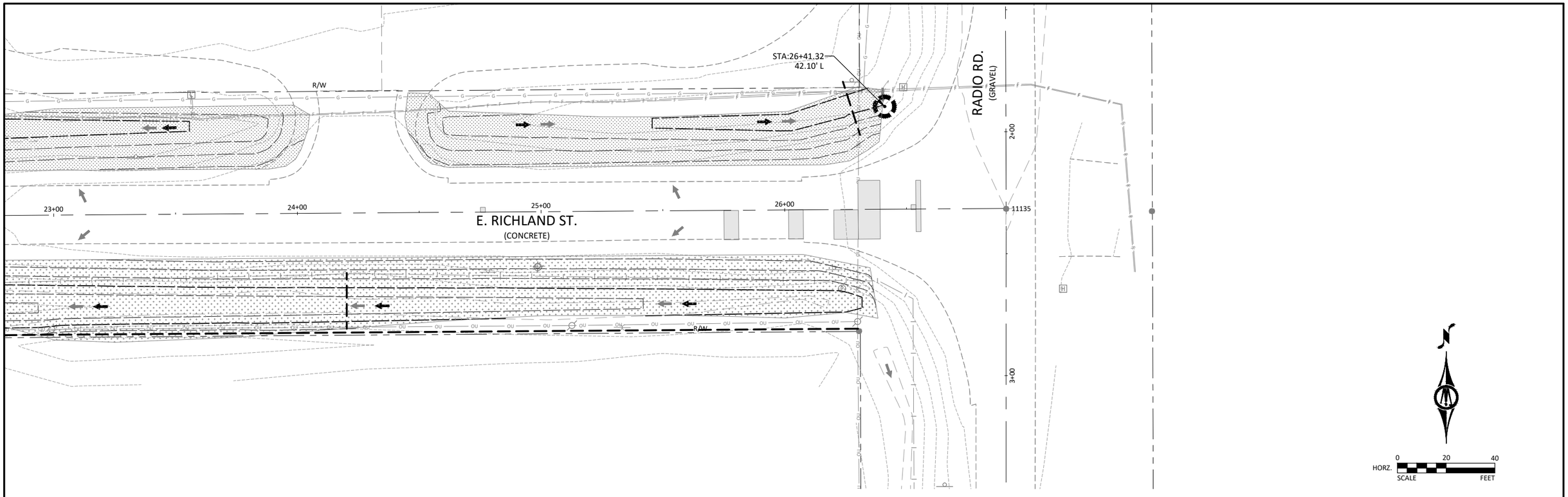
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER RC.03	REVISED



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INLET PROTECTION

SILT FENCE/SILT FENCE DITCH CHECK

PROPOSED DRAINAGE

EXISTING DRAINAGE

STABILIZED CONSTRUCTION ENTRANCE

WOOD EXCELSIOR MAT (DITCH & SLOPE CONTROL) SEED & FERTILIZE, URBAN

WOOD EXCELSIOR MAT (DITCH & SLOPE CONTROL) SEED & FERTILIZE, RURAL

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NOTES:
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INLET PROTECTION

SILT FENCE/SILT FENCE DITCH CHECK

PROPOSED DRAINAGE

EXISTING DRAINAGE

STABILIZED CONSTRUCTION ENTRANCE

WOOD EXCELSIOR MAT (DITCH & SLOPE CONTROL) SEED & FERTILIZE, URBAN

WOOD EXCELSIOR MAT (DITCH & SLOPE CONTROL) SEED & FERTILIZE, RURAL

HORZ. SCALE 0 20 40 FEET

300+00 301+00 302+00 303+00 304+00 305+00 306+00 307+00 308+00 5+00 6+00

PL

CLASS 'E' REVETMENT PLACEMENT

STA:307+07.85
16.87' L

STA:307+20.58
17.53' L

BEG. CLASS 'E' RIP RAP
STA:307+01.71
0.00'

STA:307+08.38
16.53' R

STA:307+19.80
18.32' R

END CLASS 'E' RIP RAP
STA:307+23.25
0.00'

E. RICHLAND ST. (CONCRETE)

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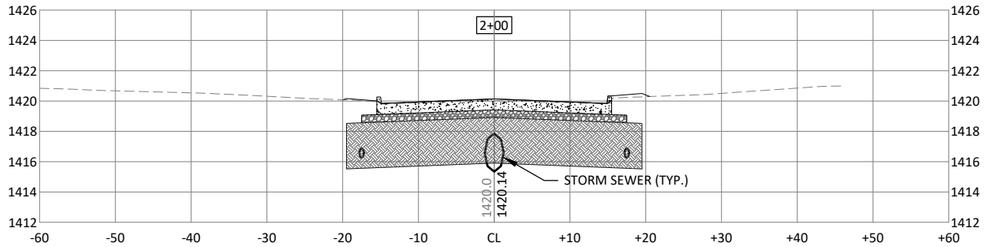
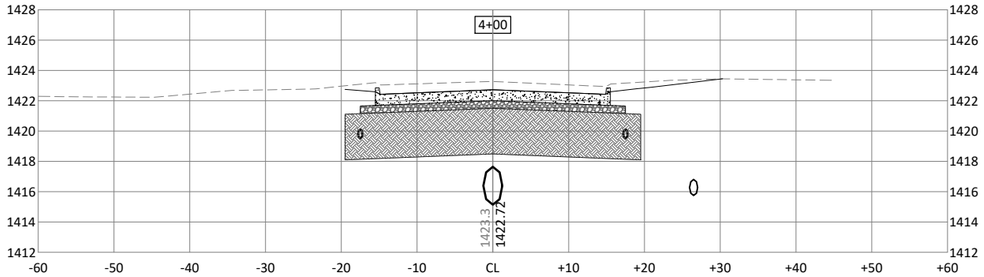
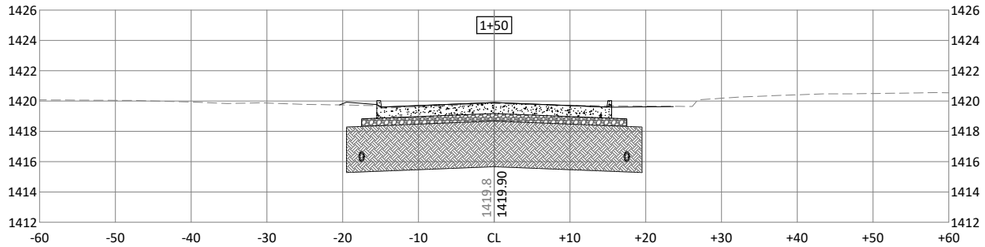
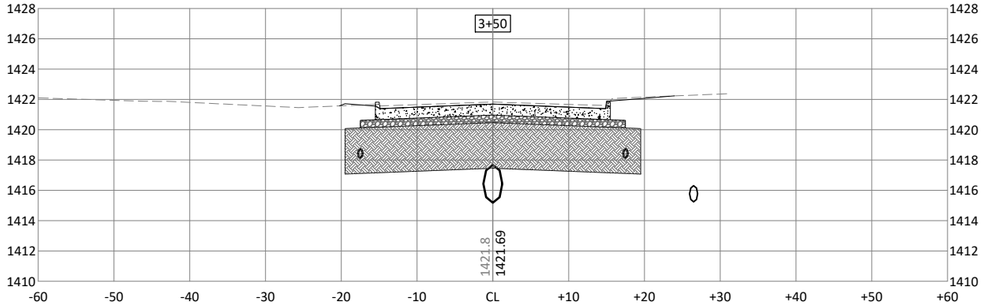
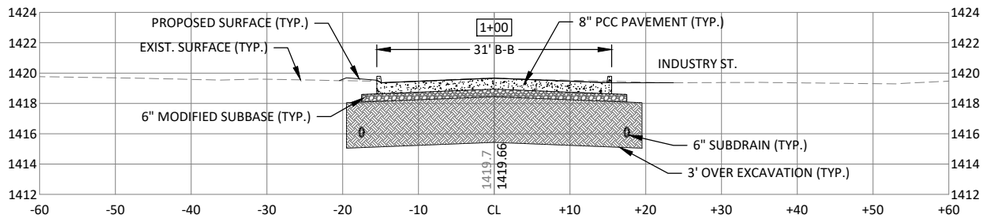
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER RC.05	REVISED

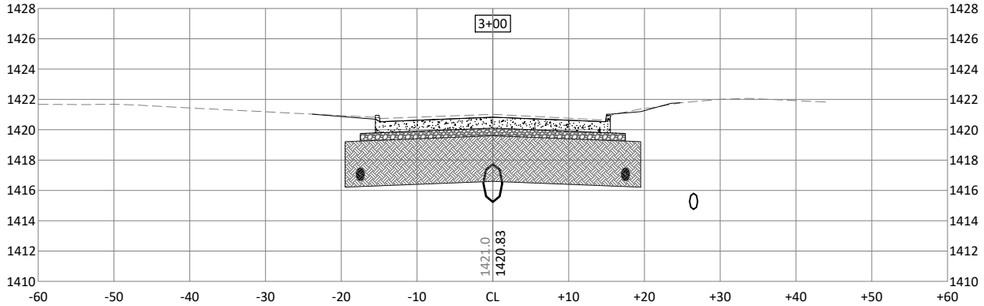


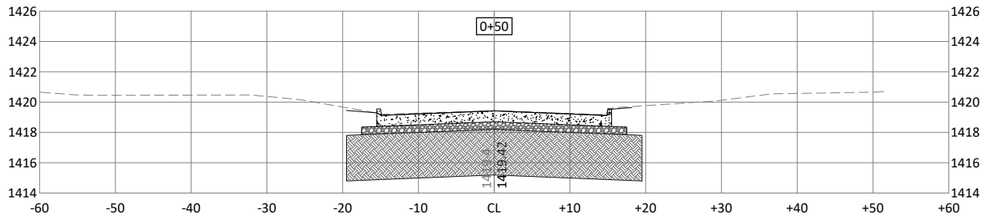


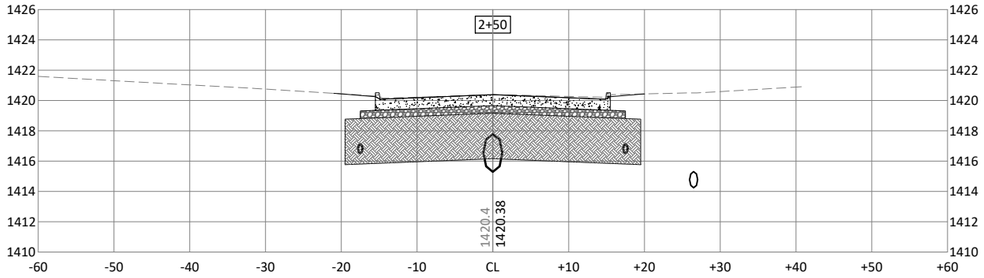












NOTES:
1. SEE SHEET B.01 FOR TYPICAL PAVEMENT SECTIONS.

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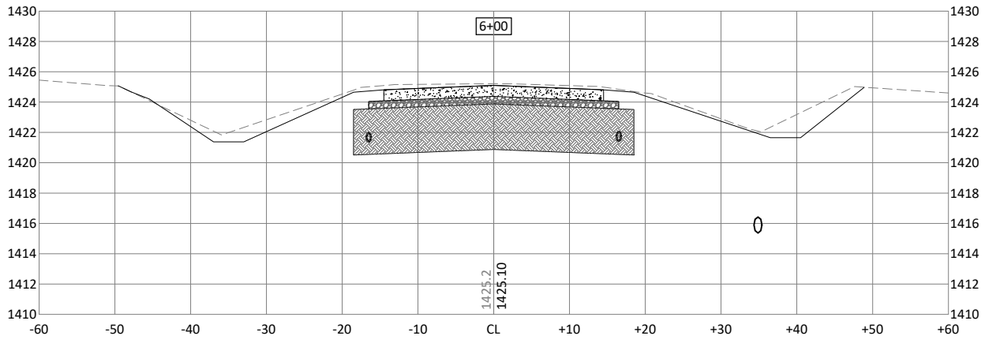
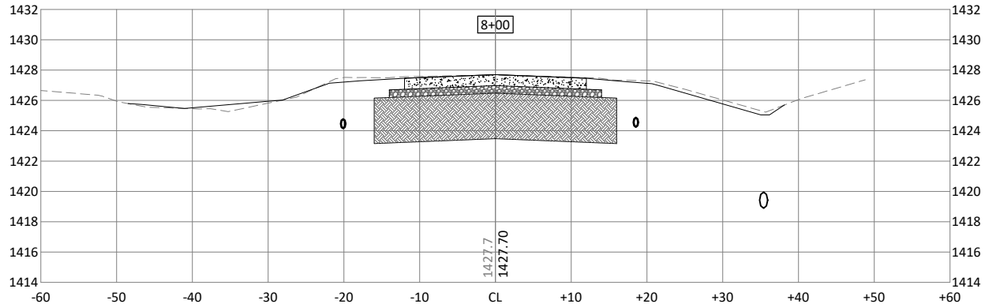
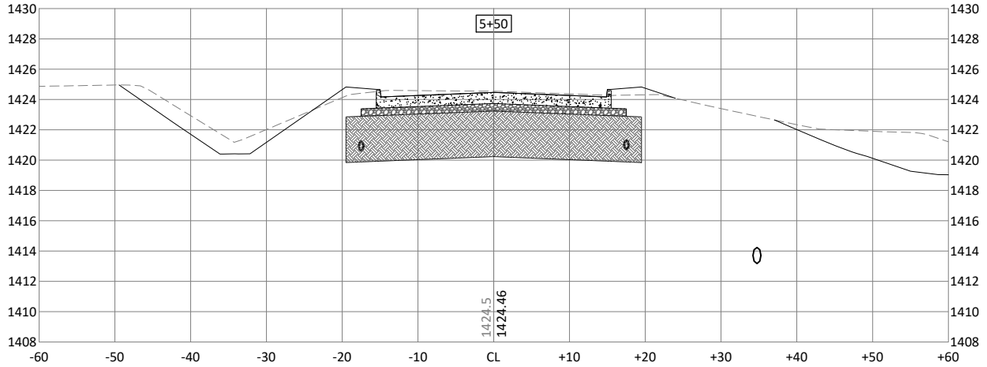
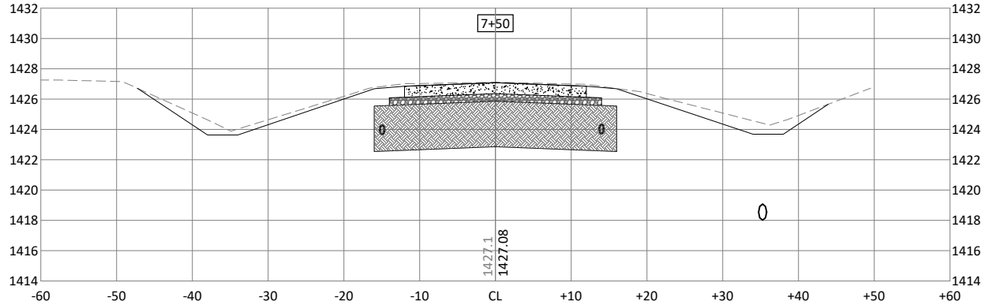
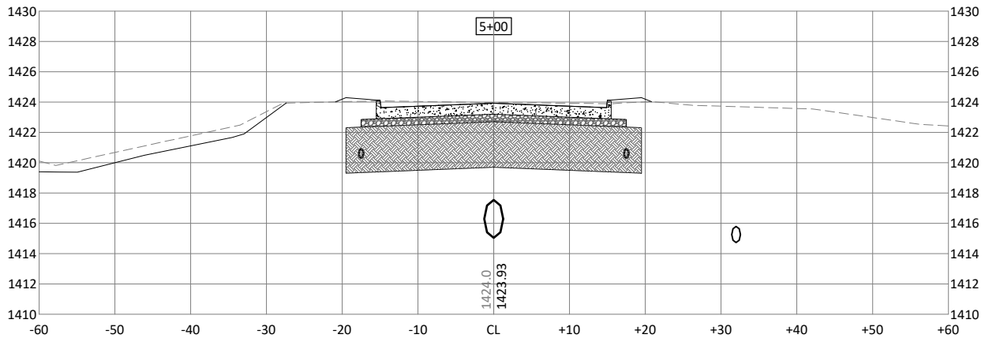
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER W.01	REVISED

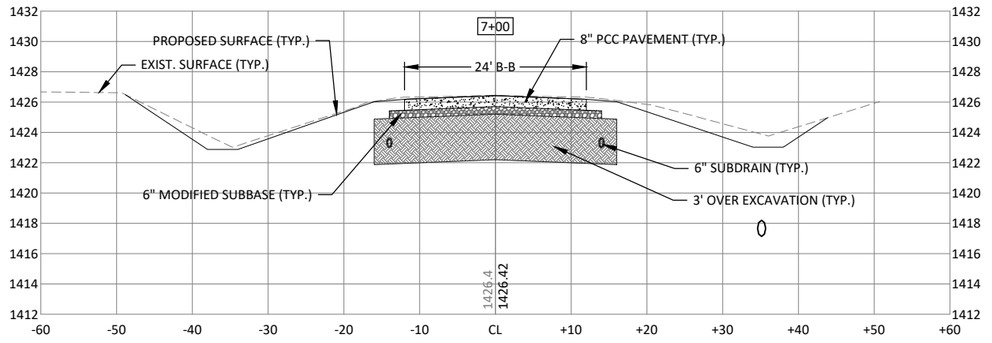


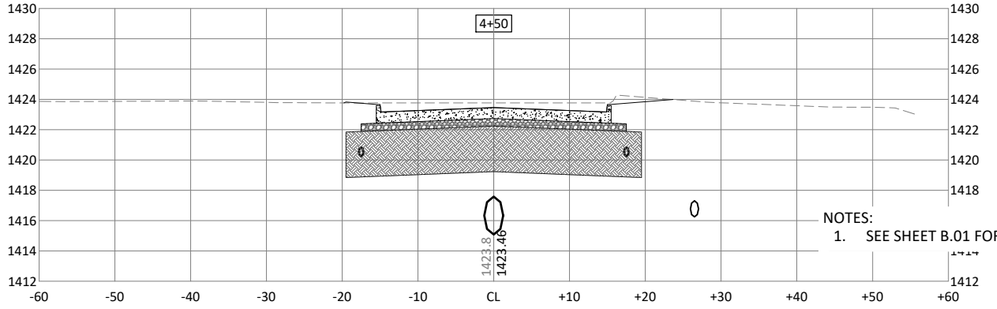


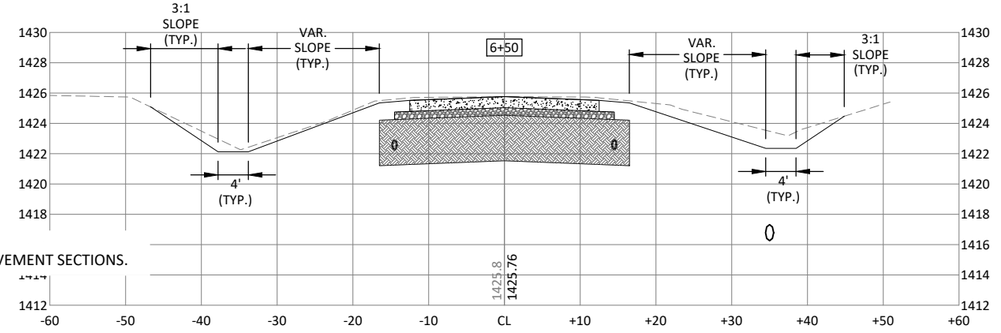












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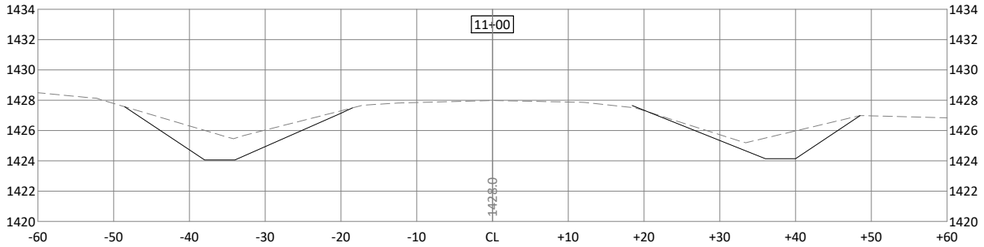

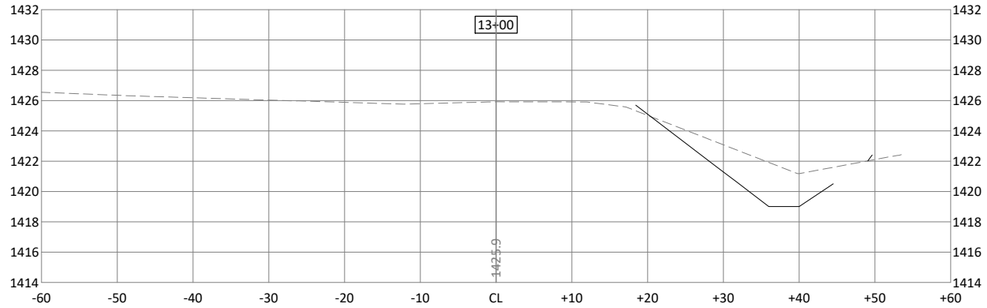

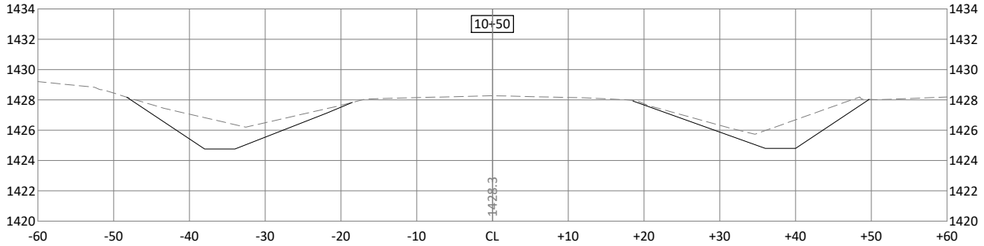

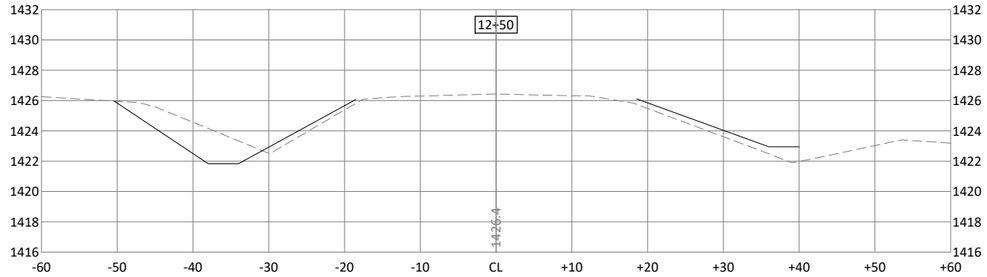

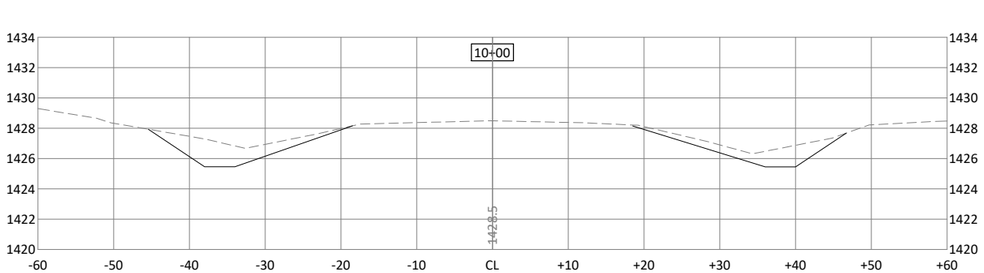

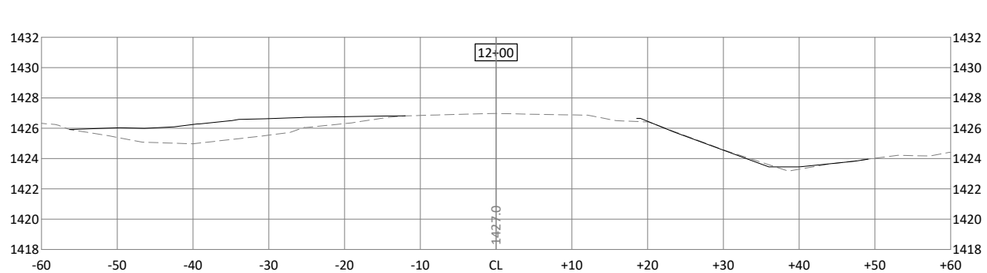

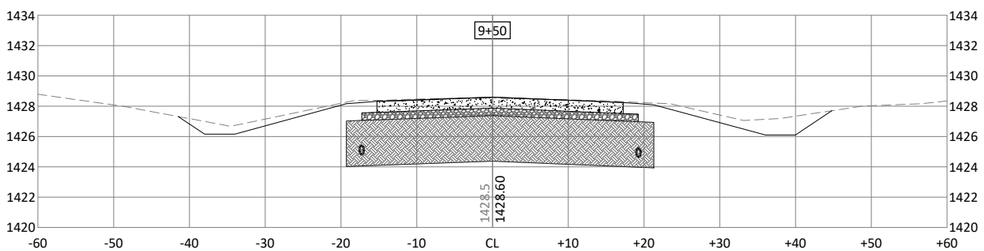

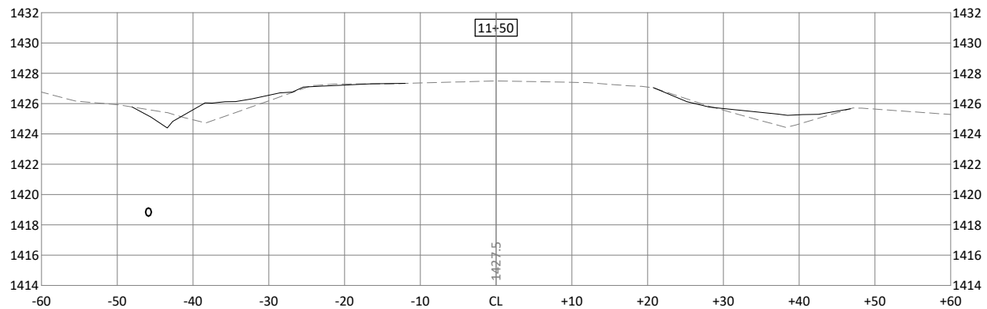

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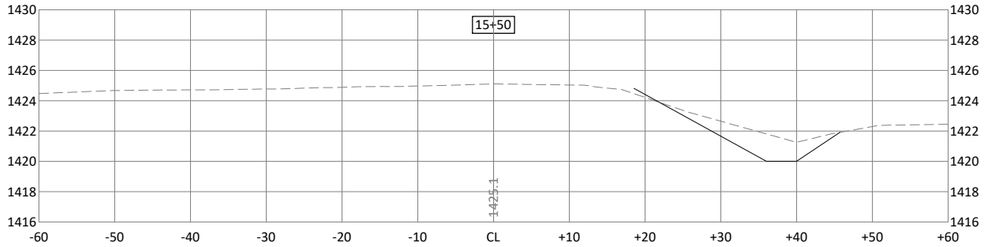
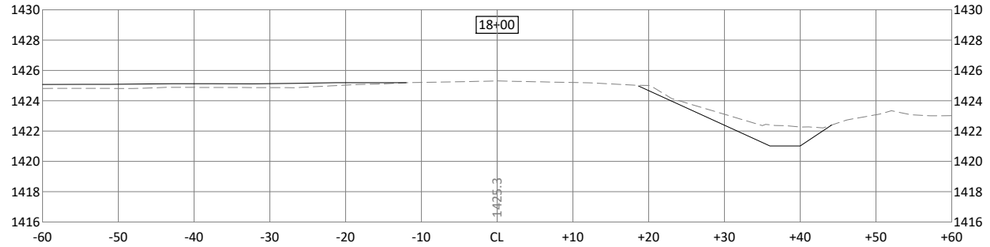
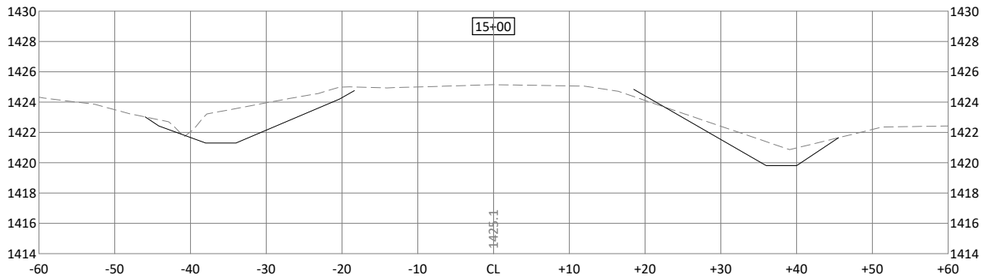
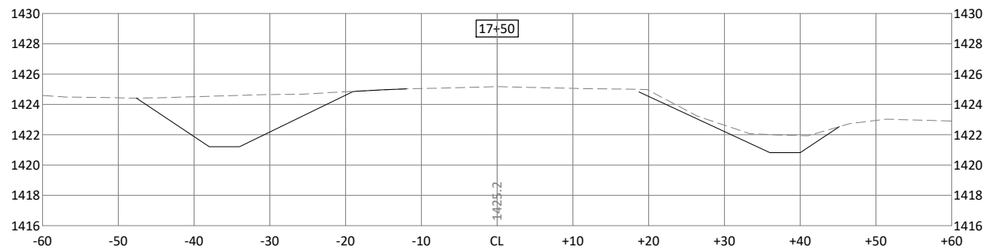
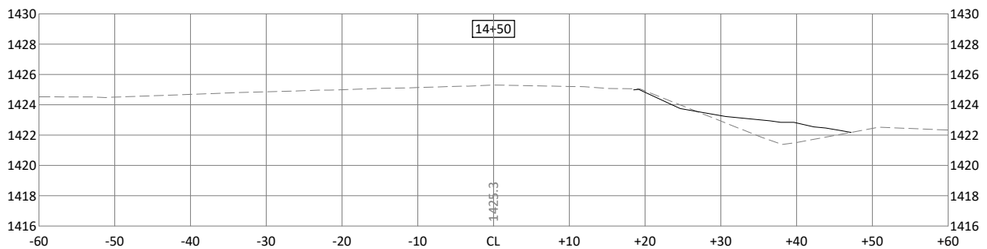
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER W.03	REVISED

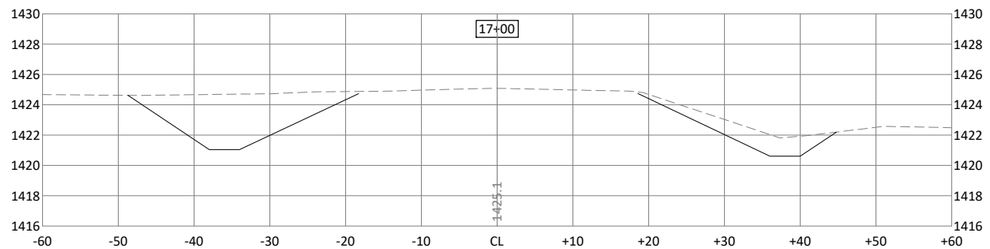


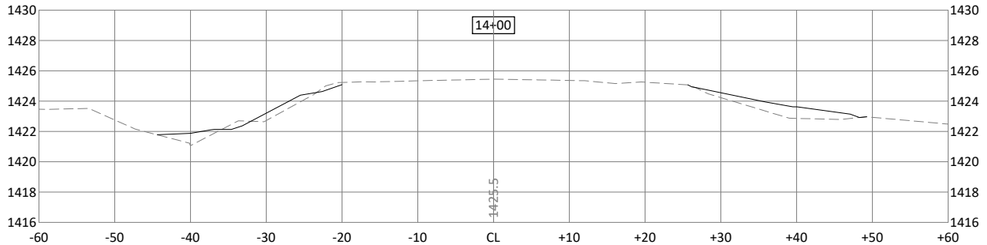


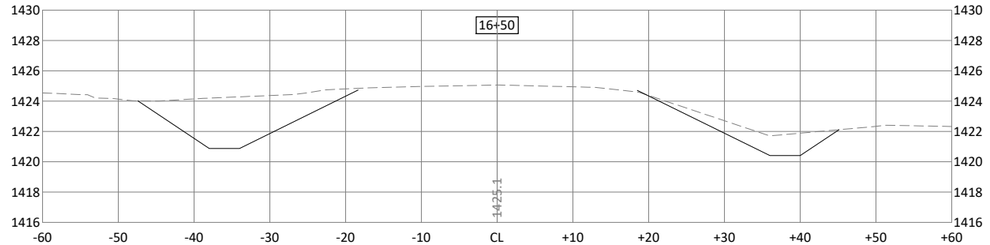


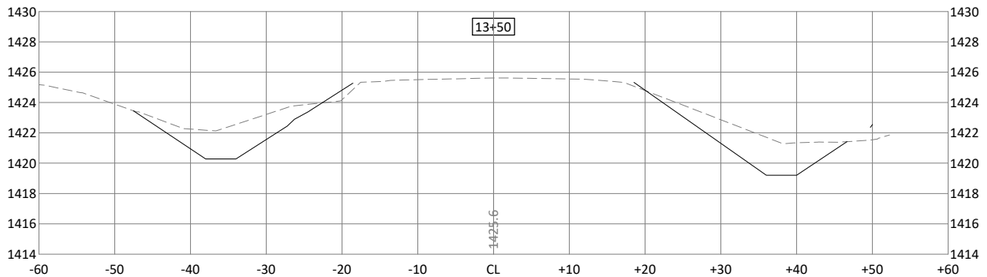


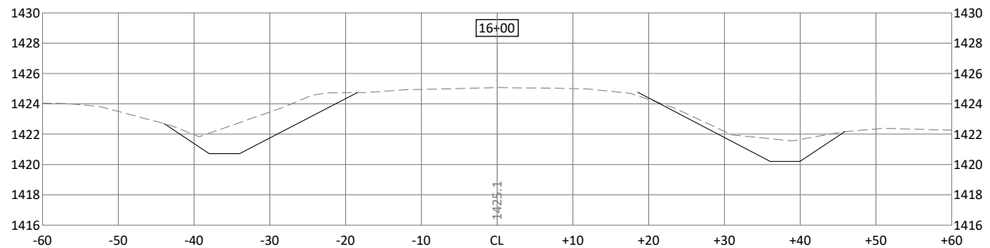












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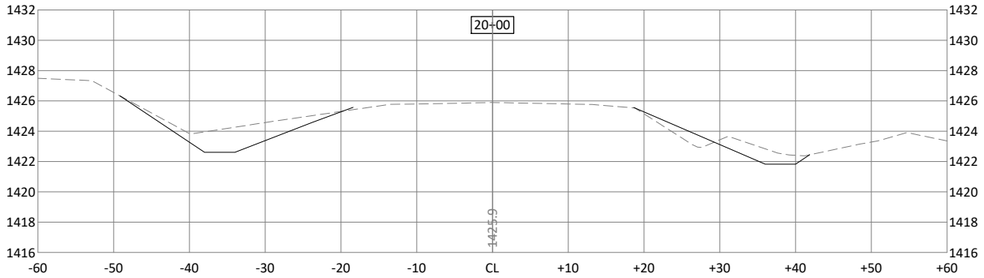
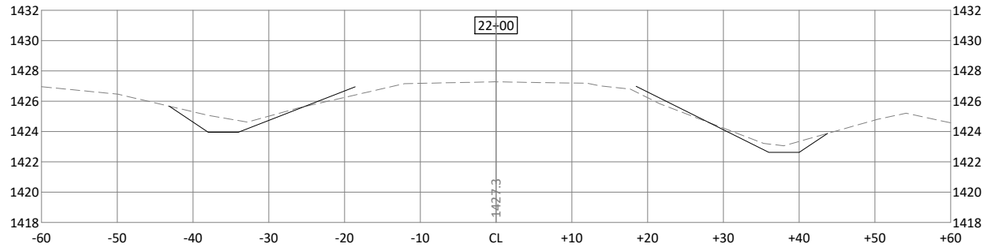
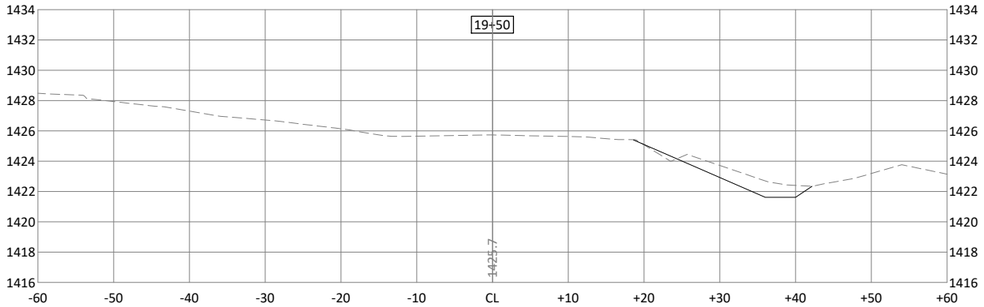
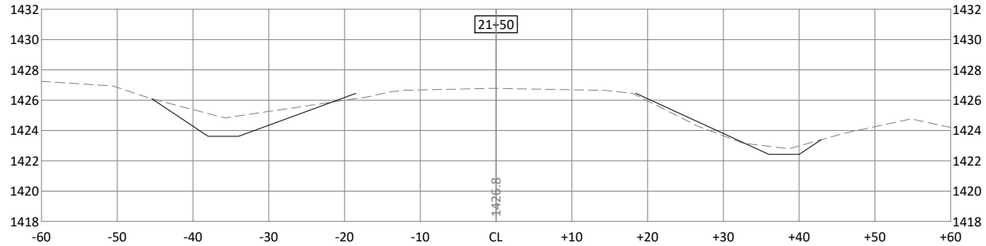
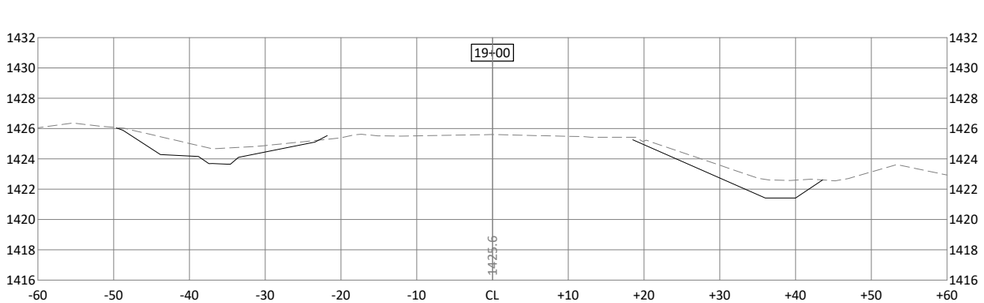
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER W.04	REVISED

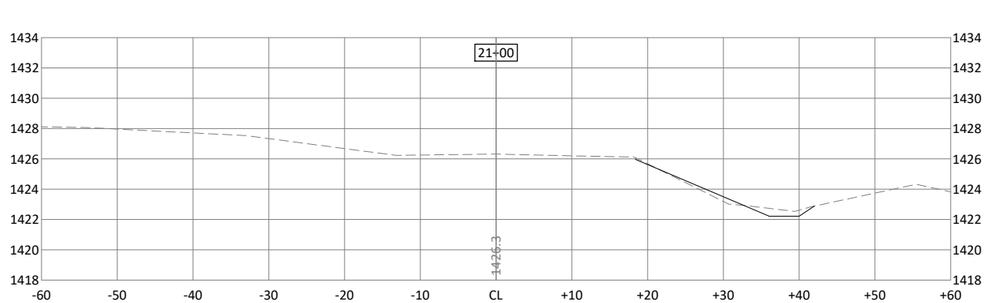


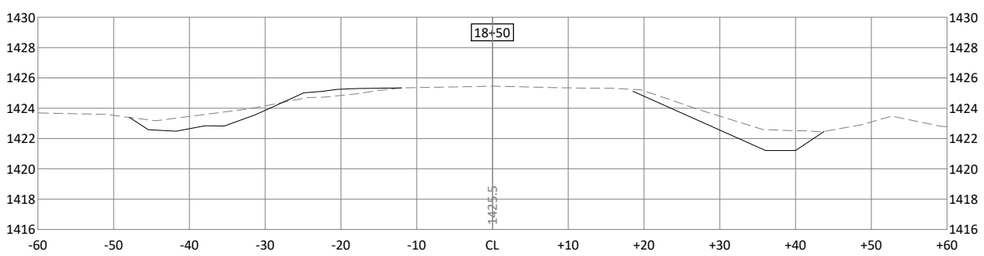


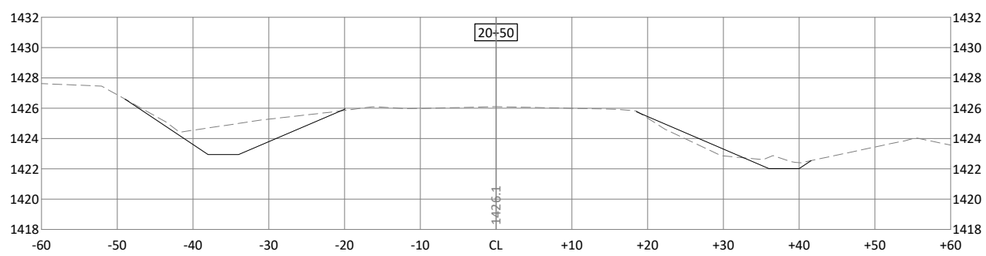












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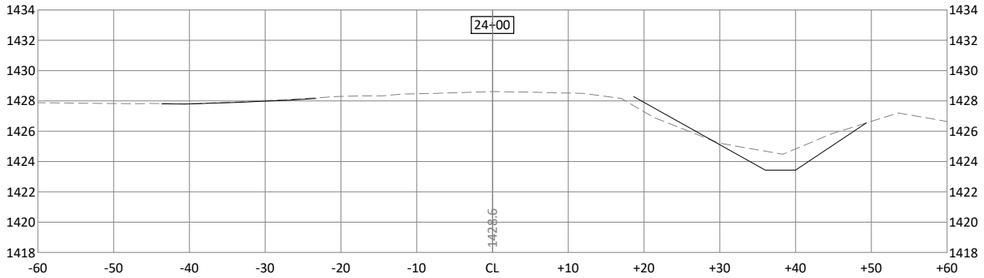
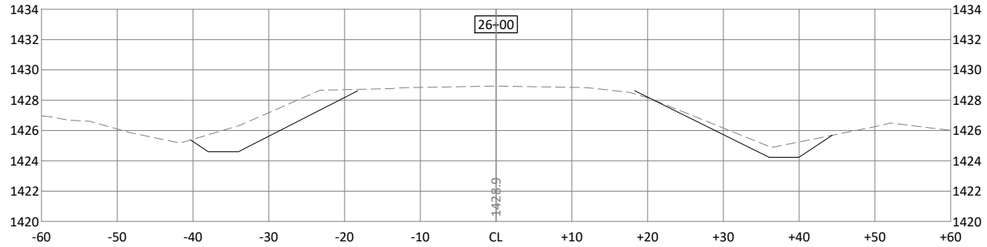
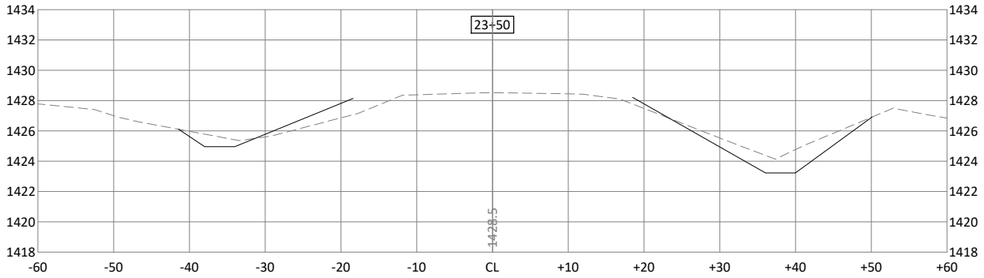
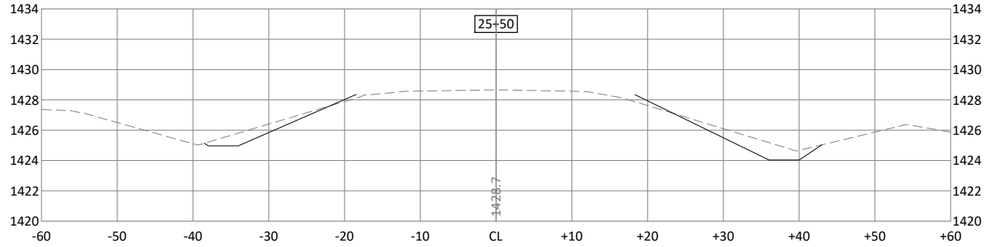
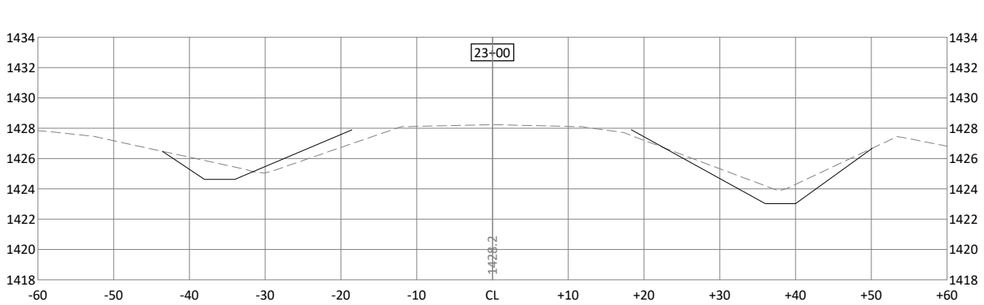
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER W.05	REVISED

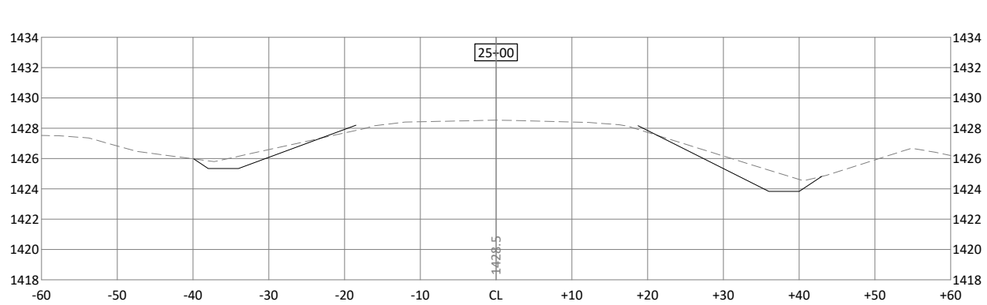


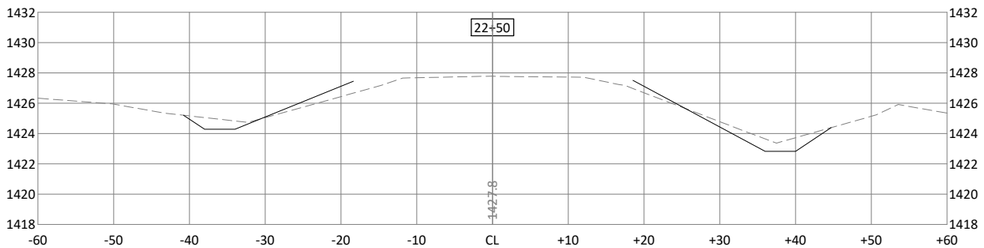


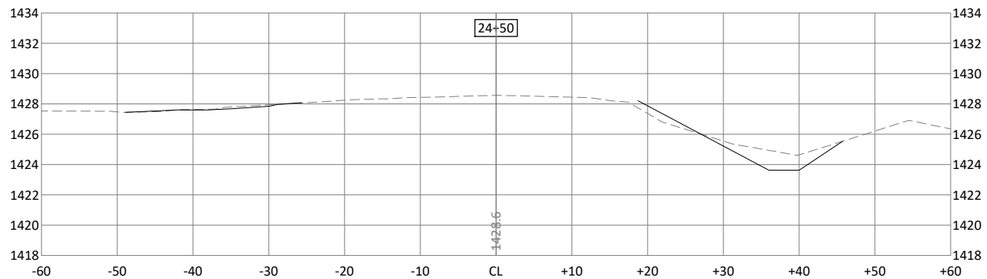












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ENGINEER'S ESTIMATE

E. RICHLAND STREET IMPROVEMENTS, PHASE 2
STBG-SWAP-7422(620)--SG-11

CITY OF STORM LAKE, IA
BMI PROJECT NO. 0P1.122814

Date: 4/19/2022

Item No.	SUDAS Spec No.	Item	Notes	Estimated Quantity	Unit	Unit Price	Total Amount
BASE BID							
1		EXCAVATION, CL 13, RDWY+BORROW		10940	CU YD	$15.00	$164,100.00
2		TOPSOIL, STRIP, SALVAGE+SPREAD		3969	CU YD	$17.00	$67,473.00
3		COMPACTION W/MOISTURE+DENSITY CONTROL		4697	CU YD	$1.00	$4,697.00
4		MODIFIED SUBBASE		846	CU YD	$65.00	$54,990.00
5		GRANULAR SHLD, TYPE A		152.9	TON	$25.00	$3,822.50
6		SHLD CONSTRUCTION, EARTH		8.1	STA	$60.00	$486.00
7		FURN+APPLY GRANULAR SHLD MAT'L		305	TON	$10.00	$3,050.00
8		STD/S-F PCC PAV'T, CL C CL 3, 8"		4354.2	SQ YD	$60.00	$261,252.00
9		SURF, DRIVEWAY, CL A CR STONE		160	TON	$35.00	$5,600.00
10		RMVL OF EXIST STRUCT		1	LUMP SUM	$3,000.00	$3,000.00
11		EXCAVATION, CL 20, RDWY PIPE CULV		415.3	CU YD	$5.00	$2,076.50
12		APRON, CONC, 18"		7	EACH	$1,200.00	$8,400.00
13		APRON, CONC, 24"		11	EACH	$1,400.00	$15,400.00
14		APRON, CONC, 30"		3	EACH	$1,500.00	$4,500.00
15		APRON, CONC, 42"		1	EACH	$2,000.00	$2,000.00
16		APRON, LOW CLEARANCE CONC, EQUIV DIA 24"		4	EACH	$1,200.00	$4,800.00
17		CULV, 3000D CONC ENT PIPE, 18"		200	LIN FT	$70.00	$14,000.00
18		CULV, 3000D CONC ENT PIPE, 24"		64	LIN FT	$100.00	$6,400.00
19		CULV, 3000D CONC ENT PIPE, 30"		64	LIN FT	$135.00	$8,640.00
20		CULV,3000D LOW CLR RDWY PIPE, EQ DIA 24"		112	LIN FT	$82.00	$9,184.00
21		CULV, 3000D CONC RDWY PIPE, 24"		160	LIN FT	$110.00	$17,600.00
22		MANHOLE, SAN SWR, SW-301, 48"		1	EACH	$7,000.00	$7,000.00
23		MANHOLE, STORM SWR, SW-401, 60"		1	EACH	$6,000.00	$6,000.00
24		MANHOLE, STORM SWR, SW-401, 84"		1	EACH	$9,500.00	$9,500.00
25		INTAKE, SW-505		4	EACH	$4,500.00	$18,000.00
26		MANHOLE ADJUSTMENT, MINOR		1	EACH	$900.00	$900.00
27		CONNECTION TO EXIST MANHOLE		3	EACH	$2,100.00	$6,300.00
28		SUBDRAIN, PERFORATED PLASTIC PIPE, 6"		1982	LIN FT	$14.00	$27,748.00
29		SUBDRAIN RISER, 6"		5	EACH	$600.00	$3,000.00
30		SUBDRAIN OUTLET, DR-303		9	EACH	$500.00	$4,500.00
31		STORM SWR GRAVITY MAIN, TRENCHED, 18"		83	LIN FT	$63.00	$5,229.00
32		STORM SWR GRAVITY MAIN, TRENCHED, 24"		413	LIN FT	$70.00	$28,910.00
33		STORM SWR GRAVITY MAIN, TRENCHED, 30"		99	LIN FT	$78.00	$7,722.00
34		STORM SWR GRAVITY MAIN, TRENCHED, 36"		32	LIN FT	$120.00	$3,840.00
35		STORM SWR GRAVITY MAIN, TRENCHED, 42"		80	LIN FT	$165.00	$13,200.00
36		RMV STORM SWR PIPE LE 36"		100	LIN FT	$17.00	$1,700.00
37		SAN SWR G-MAIN, TRENCHED, PVC, 8"		62	LIN FT	$70.00	$4,340.00
38		SAN SWR G-MAIN, TRENCHED, PVC, 24"		175	LIN FT	$80.00	$14,000.00
39		SAN SWR SERVICE STUB, PVC, 6"		50	LIN FT	$90.00	$4,500.00
40		RMV SAN SWR PIPE LE 36"		250	LIN FT	$60.00	$15,000.00
41		ENGINEER FABRIC		70	SQ YD	$5.00	$350.00
42		REVETMENT, CLASS E		50	TON	$50.00	$2,500.00
43		RMVL OF PAV'T		3710.5	SQ YD	$4.00	$14,842.00
44		DRIVEWAY, PCC, 8"		243	SQ YD	$60.00	$14,580.00
45		RMVL OF PAVED DRIVEWAY		532.4	SQ YD	$7.00	$3,726.80
46		SAFETY CLOSURE		6	EACH	$150.00	$900.00
47		RMV+REINSTALL SIGN		22	EACH	$215.00	$4,730.00
48		TRAFFIC CONTROL		1	LUMP SUM	$30,000.00	$30,000.00

ENGINEER'S ESTIMATE

E. RICHLAND STREET IMPROVEMENTS, PHASE 2
STBG-SWAP-7422(620)--SG-11

BOLTON & MENK
Real People. Real Solutions.

CITY OF STORM LAKE, IA
BMI PROJECT NO. 0P1.122814

Date: 4/19/2022

Item No.	SUDAS Spec No.	Item	Notes	Estimated Quantity	Unit	Unit Price	Total Amount
49		FLAGGER		30	EACH	$500.00	$15,000.00
50		PATCH, FULL-DEPTH FINISH, BY AREA		471	SQ YD	$136.00	$64,056.00
51		PATCH,FULL-DEPTH FINISH,BY AREA(=>50 FT)		668	SQ YD	$100.00	$66,800.00
52		PATCH, FULL-DEPTH FINISH, BY COUNT		22	EACH	$160.00	$3,520.00
53		RUMBLE STRIP PANEL (IN FULL DEPTH PATCH)		1	EACH	$460.00	$460.00
54		PATCH, PARTIAL-DEPTH PCC FINISH		217	SQ FT	$40.00	$8,680.00
55		PARTIAL DEPTH PCC JNT+CRACK REPAIR PATCH		21	LIN FT	$16.00	$336.00
56		MOBILIZATION		1	LUMP SUM	$95,000.00	$95,000.00
57		REMEDIATION OF PETRO CONTAMINATED SOIL		1160	CU YD	$50.00	$58,000.00
58		SAMPLE+TEST-PETRO CONTAM (REMEDIATION)		4	EACH	$2,000.00	$8,000.00
59		BYPASS PUMPING, SE		1	LUMP SUM	$25,000.00	$25,000.00
60		WATER MAIN, TRENCHED, DIP, 6"		119	LIN FT	$55.00	$6,545.00
61		WATER MAIN, TRENCHED, DIP, 8"		90	LIN FT	$65.00	$5,850.00
62		WATER MAIN, TRENCHED, DIP, 12"		732	LIN FT	$70.00	$51,240.00
63		FITTINGS BY WEIGHT, DI		2026	POUND	$10.00	$20,260.00
64		WATER SERVICE STUB, COPPER, 2"		3	EACH	$500.00	$1,500.00
65		WATER SERV CURB STOP & BOX, COPPER, 2"		3	EACH	$1,000.00	$3,000.00
66		VALVE, GATE, DIP, 6"		3	EACH	$1,600.00	$4,800.00
67		VALVE, GATE, DIP, 12"		2	EACH	$2,800.00	$5,600.00
68		TAPPING VALVE ASSEMBLY, 6"		4	EACH	$3,700.00	$14,800.00
69		TAPPING VALVE ASSEMBLY, 12"		1	EACH	$7,000.00	$7,000.00
70		FIRE HYDRANT ASSEMBLY, WM-201		2	EACH	$5,900.00	$11,800.00
71		FLUSHING DEVICE (BLOWOFF), 6"		3	EACH	$5,000.00	$15,000.00
72		FIRE HYDRANT ADJUSTMENT		5	EACH	$5,500.00	$27,500.00
73		DELIVER + STOCKPILE SALVAGED MATERIAL		1	LUMP SUM	$1,200.00	$1,200.00
74		CONNECT TO EXISTING SANITARY		5	EACH	$500.00	$2,500.00
75		CONNECT TO EXISTING STORM		6	EACH	$250.00	$1,500.00
76		CONNECT TO EXISTING WATE		7	EACH	$2,000.00	$14,000.00
77		MANHOLE, WATER MAIN AIR R		1	EACH	$10,000.00	$10,000.00
78		SALVAGE FIRE H		2	EACH	$850.00	$1,700.00
79		TILE REPAI		5	EACH	$950.00	$4,750.00
80		TILE REPAIR 12"		5	EACH	$950.00	$4,750.00
81		EXPLORATORY EXCAVATION, G		20	HOUR	$400.00	$8,000.00
82		EXPLORATORY EXCAVATION, VAC		20	HOUR	$400.00	$8,000.00
83		WATER MAIN REMOVAL OR ABANDON		917	LIN FT	$15.00	$13,755.00
84		TEMPORARY W		1	LUMP SUM	$15,000.00	$15,000.00
85		POLYSTYRENE INSULATION		8	SQ YD	$100.00	$800.00
86		SEED+FERTILIZE (RURAL)		1.72	ACRE	$3,500.00	$6,020.00
87		SEED+FERTILIZE (URBAN)		1.56	ACRE	$4,000.00	$6,240.00
88		SLOPE PROTECTION, WOOD EXCELSIOR		1015	SQUARE	$15.00	$15,225.00
89		SPECIAL DITCH CONTROL,WOOD EXCELSIOR MAT		384	SQUARE	$25.00	$9,600.00
90		SILT FENCE		1842	LIN FT	$1.75	$3,223.50
91		SILT FENCE-DITCH CHECKS		565	LIN FT	$1.75	$988.75
92		RMVL OF SILT FENCE/SILT FENC-DITCH CHECK		2407	LIN FT	$0.25	$601.75
93		MAINT OF SILT FENC/SILT FENC-DITCH CHECK		2407	LIN FT	$0.50	$1,203.50
94		STAB CONSTR ENTRANCE, EC-303		190	LIN FT	$58.00	$11,020.00
95		PERIMETER+SLOPE SEDIMENT CNTL DEVICE, 9"		500	LIN FT	$5.00	$2,500.00
96		GRATE INTAKE SEDIMENT FILTER BAG		8	EACH	$200.00	$1,600.00
97		MAINT OF GRATE INTAKE SEDIMENT FLTR BAG		8	EACH	$40.00	$320.00

ENGINEER'S ESTIMATE

E. RICHLAND STREET IMPROVEMENTS, PHASE 2
STBG-SWAP-7422(620)--SG-11

CITY OF STORM LAKE, IA
BMI PROJECT NO. 0P1.122814

Date: 4/19/2022

Item No.	SUDAS Spec No.	Item	Notes	Estimated Quantity	Unit	Unit Price	Total Amount
98		RMVL OF GRATE INTAKE SEDIMENT FILTER BAG		8	EACH	$40.00	$320.00
99		MOBILIZATION, EROSION CONTROL		8	EACH	$500.00	$4,000.00
						ESTIMATED BASE BID TOTAL:	**$1,583,053.30**

Staff Summary

5/16/2022
Agenda Item # 11.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: David Derragon, Assistant City Manager

SUBJECT: **Resolution No. 77-R-2021-2022 for the Richland Street, Phase 2 Improvements Plans, Specifications, Form of Contract and Bid Award**

BACKGROUND: This project provides for the reconstruction of Richland Street from Industry Street to Radio Road (120th Avenue) in the City. The project includes the removal and replacement of a failing collector street in a 60 foot right of way with a new pavement section to carry the current and projected traffic loading. The pavement is beyond its useful life and would require substantial panel replacement to bring back to a useful level. The road is a main East West corridor connecting Highway 7 to Highway 71. Business located along the roadway include Tyson Foods and Tyson Poultry. The project will include a 31 foot wide, 8" thick PCC pavement on East Richland Street, from Industry Street .5 miles to Radio Road Pavement Rehab. In addition, several full panel patches will be included where individual panels have failed east of Expansion Boulevard.

The Engineer's Opinion of Probable Cost is $1,583,053.30. The city received 50% STP funding for covered project costs of $327,057 which is $163,528. All improvements are roadway related. This project is in the City's Capital Improvement Program. The $168,528 funding request was approved in 2018.

The balance of the construction cost will be local match and provided through Road Use, Franchise Fee, and Local Option Sales Tax Funds.

Bids were received and opened by the Iowa Department of Transportation on April 19, 2022. Two bids were received as follows:

RP Constructors, LLC $1,994,771.76
Hulstein Excavating, Inc. $2,436,879.55

The bidder's prices are more than 20% above the Engineer's Estimate. Bolton and Menk is of the opinion that the received bids were competitive and representative of the project's scope and timeframe requirements.

In accordance with Iowa DOT policy, local agencies are unable to directly correspond with bidders until the construction contract is awarded. Accordingly, the specific reason(s) for the higher bid amounts are unknown. However, it is suspected that the primary causes for the increase are attributed to supply chain disruptions and an increasingly limited labor market within the construction industry, particularly in northwest Iowa.

The apparent low bid is nearly 25% over the Engineer's Estimate. The additional cost of this construction is prohibitive, particularly with upcoming capital improvements being pursued with FEMA BRIC and other initiatives. It is therefore recommended that all bids be rejected and the project's requirements be further evaluated.

FISCAL IMPACT: The Engineer's Opinion of Probable Construction Cost is $1,583,053.80. To accept the bid would be at a cost of $1,994,771.76.

RECOMMENDATION: Move to approve Resolution No. 77-R-2021-2022 approve plans, specs and form of contract and rejecting the bid for the Richland Street, Phase 2 Project.

ATTACHMENTS:

Description	Type
Project Manual	Backup Material
Engineer's Recommendation	Backup Material
Resolution No. 77-R-2021-2022	Resolution

CONTRACTS AND SPECIFICATIONS BUREAU
Proposal

Proposal ID: 11-7422-620 **Letting Date:** April 19, 2022

Call Order No.: 102

Proposal Work Type: PCC PAVEMENT - REPLACE

DBE Goal: 0.0%

Contracting Authority: CITY OF STORM LAKE

Proposal Guaranty: $100,000.00

This proposal includes the following project(s):

Project Number: STBG-SWAP-7422(620)--SG-11 **County:** BUENA VISTA

Project Work Type: PCC PAVEMENT - REPLACE **Route:** RICHLAND ST.

Location: In the city of Storm Lake, On E Richland St., from Industry St east 600 Feet to Radio Road

Road System: URBAN

Federal Aid - Wages: Non-Federal Aid - Predetermined Wages are not in Effect

Contract Time

Proposal ID: 11-7422-620 **Call Order No.:** 102
Letting Date: April 19, 2022

Site ID	Site Details				Liquidated Damages
00	Late Start Date	06/06/2022	80	WORK DAYS	$1,000.00

.

(*) - Indicates Cost Plus Time Site. See Schedule of Items for Cost Per Unit

Proposal Notes

Proposal ID: 11-7422-620 **Call Order No.:** 102
Letting Date: April 19, 2022

Proposal Notes :

There are no notes for this proposal.

Proposal Specifications List

Proposal ID: 11-7422-620 **Call Order No.:** 102
Letting Date: April 19, 2022

Note	Description
001.2015	*** STANDARD SPECIFICATIONS -- SERIES 2015 *** The Iowa Department of Transportation STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2015, plus applicable General Supplemental Specifications, Developmental Specifications, Supplemental Specifications AND Special Provisions shall apply to construction work on this contract.
005.15014.01	*** REVISIONS TO GS-15014 *** 2601.03, C, 2, b, Seed Mixture. Add note to Table 2601.03-2: 3. For 2022 construction season only, a partial or full substitution of the required 25 pounds of Creeping Red Fescue is allowed with any of the following varieties: Chewing Fescue, Hard Fescue, Sheep's Fescue or Blue Fescue. 2601.03, C, 3, b, Seed Mixture. Add note to Table 2601.03-3: * For 2022 construction season only, ryegrass rate may be reduced to 30 pounds per acre as long as the fescue rate is increased to 150 pounds per acre. 2601.03, C, 4, b, Seed Mixture. Add note to Table 2601.03-4: 3. For 2022 construction season only, a partial or full substitution of the required 25 pounds of Creeping Red Fescue is allowed with any of the following varieties: Chewing Fescue, Hard Fescue, Sheep's Fescue or Blue Fescue.
500.01	*** WINTER WORK *** The free time allowed between November 15 and April 1 will not be permitted on this project. The Contractor shall work during the winter on all working days as defined in Article 1101.03 'Working Day'.
GS-15014	GENERAL SUPPLEMENTAL SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0010	2102-2713070 EXCAVATION, CLASS 13, ROADWAY AND BORROW	10,940.000 CY	_____	_____	_____	_____
0020	2105-8425015 TOPSOIL, STRIP, SALVAGE AND SPREAD	3,969.000 CY	_____	_____	_____	_____
0030	2107-0875000 COMPACTION WITH MOISTURE AND DENSITY CONTROL	4,697.000 CY	_____	_____	_____	_____
0040	2115-0100000 MODIFIED SUBBASE	846.000 CY	_____	_____	_____	_____
0050	2121-7425010 GRANULAR SHOULDERS, TYPE A	152.900 TON	_____	_____	_____	_____
0060	2123-7450000 SHOULDER CONSTRUCTION, EARTH	8.100 STA	_____	_____	_____	_____
0070	2128-0000120 FURNISH AND APPLY GRANULAR SHOULDER MATERIAL	305.000 TON	_____	_____	_____	_____
0080	2301-1033080 STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 8 IN.	4,354.200 SY	_____	_____	_____	_____
0090	2315-8275025 SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	160.000 TON	_____	_____	_____	_____
0100	2401-6745650 REMOVAL OF EXISTING STRUCTURES	 LUMP SUM	 LUMP SUM		_____	_____
0110	2402-2720100 EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	415.300 CY	_____	_____	_____	_____

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0120	2416-0100018 APRONS, CONCRETE, 18 IN. DIA.	7.000 EACH	_____._____		_____._____	
0130	2416-0100024 APRONS, CONCRETE, 24 IN. DIA.	11.000 EACH	_____._____		_____._____	
0140	2416-0100030 APRONS, CONCRETE, 30 IN. DIA.	3.000 EACH	_____._____		_____._____	
0150	2416-0100042 APRONS, CONCRETE, 42 IN. DIA.	1.000 EACH	_____._____		_____._____	
0160	2416-0102224 APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 24 IN.	4.000 EACH	_____._____		_____._____	
0170	2416-1170018 CULVERT, 3000D CONCRETE ENTRANCE PIPE, 18 IN. DIA.	200.000 LF	_____._____		_____._____	
0180	2416-1170024 CULVERT, 3000D CONCRETE ENTRANCE PIPE, 24 IN. DIA.	64.000 LF	_____._____		_____._____	
0190	2416-1170030 CULVERT, 3000D CONCRETE ENTRANCE PIPE, 30 IN. DIA.	64.000 LF	_____._____		_____._____	
0200	2416-1202224 CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 24 IN.	112.000 LF	_____._____		_____._____	
0210	2416-1240024 CULVERT, 3000D CONCRETE ROADWAY PIPE, 24 IN. DIA.	160.000 LF	_____._____		_____._____	
0220	2435-0130148 MANHOLE, SANITARY SEWER, SW-301, 48 IN.	1.000 EACH	_____._____		_____._____	

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0230	2435-0140160 MANHOLE, STORM SEWER, SW-401, 60 IN.	1.000 EACH	_____.____		_____.____	
0240	2435-0140184 MANHOLE, STORM SEWER, SW-401, 84 IN.	1.000 EACH	_____.____		_____.____	
0250	2435-0250500 INTAKE, SW-505	4.000 EACH	_____.____		_____.____	
0260	2435-0600010 MANHOLE ADJUSTMENT, MINOR	1.000 EACH	_____.____		_____.____	
0270	2435-0700010 CONNECTION TO EXISTING MANHOLE	3.000 EACH	_____.____		_____.____	
0280	2502-8212206 SUBDRAIN, PERFORATED PLASTIC PIPE, 6 IN. DIA.	1,982.000 LF	_____.____		_____.____	
0290	2502-8221006 SUBDRAIN RISER, 6 IN., AS PER PLAN	5.000 EACH	_____.____		_____.____	
0300	2502-8221303 SUBDRAIN OUTLET, DR-303	9.000 EACH	_____.____		_____.____	
0310	2503-0110018 STORM SEWER GRAVITY MAIN, TRENCHED, 18 IN.	83.000 LF	_____.____		_____.____	
0320	2503-0110024 STORM SEWER GRAVITY MAIN, TRENCHED, 24 IN.	413.000 LF	_____.____		_____.____	
0330	2503-0110030 STORM SEWER GRAVITY MAIN, TRENCHED, 30 IN.	99.000 LF	_____.____		_____.____	

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0340	2503-0110036 STORM SEWER GRAVITY MAIN, TRENCHED, 36 IN.	32.000 LF	_____.____		_____.____	
0350	2503-0110042 STORM SEWER GRAVITY MAIN, TRENCHED, 42 IN.	80.000 LF	_____.____		_____.____	
0360	2503-0200036 REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	100.000 LF	_____.____		_____.____	
0370	2504-0114008 SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 8 IN.	62.000 LF	_____.____		_____.____	
0380	2504-0114024 SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 24 IN.	175.000 LF	_____.____		_____.____	
0390	2504-0200406 SANITARY SEWER SERVICE STUB, POLYVINYL CHLORIDE PIPE (PVC), 6 IN.	50.000 LF	_____.____		_____.____	
0400	2504-0240036 REMOVE SANITARY SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	250.000 LF	_____.____		_____.____	
0410	2507-3250005 ENGINEERING FABRIC	70.000 SY	_____.____		_____.____	
0420	2507-6800061 REVETMENT, CLASS E	50.000 TON	_____.____		_____.____	
0430	2510-6745850 REMOVAL OF PAVEMENT	3,710.500 SY	_____.____		_____.____	
0440	2515-2475008 DRIVEWAY, P.C. CONCRETE, 8 IN.	243.000 SY	_____.____		_____.____	

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0450	2515-6745600 REMOVAL OF PAVED DRIVEWAY	532.400 SY	_____._____		_____._____	
0460	2524-6765010 REMOVE AND REINSTALL SIGN AS PER PLAN	22.000 EACH	_____._____		_____._____	
0470	2528-2518000 SAFETY CLOSURE	6.000 EACH	_____._____		_____._____	
0480	2528-8445110 TRAFFIC CONTROL	 LUMP SUM	LUMP SUM		_____._____	
0490	2528-8445113 FLAGGERS	30.000 EACH	540.00000		16,200.00	
0500	2529-5070110 PATCHES, FULL-DEPTH FINISH, BY AREA	471.000 SY	_____._____		_____._____	
0510	2529-5070111 PATCHES, FULL-DEPTH FINISH, BY AREA (50 FEET OR GREATER IN LENGTH)	668.000 SY	_____._____		_____._____	
0520	2529-5070120 PATCHES, FULL-DEPTH FINISH, BY COUNT	22.000 EACH	_____._____		_____._____	
0530	2529-8202000 RUMBLE STRIP PANEL (IN FULL DEPTH PATCH)	1.000 EACH	_____._____		_____._____	
0540	2530-5070210 PATCHES, PARTIAL-DEPTH P.C.C. FINISH	217.000 SF	_____._____		_____._____	
0550	2530-5070240 PARTIAL DEPTH PCC JOINT AND CRACK REPAIR PATCHES	21.000 LF	_____._____		_____._____	

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0560	2533-4980005 MOBILIZATION	LUMP SUM	LUMP SUM		_____	_____
0570	2537-8900000 REMEDIATION OF PETROLEUM CONTAMINATED SOIL	1,160.000 CY	_____	_____	_____	_____
0580	2537-8900100 SAMPLING AND TESTING FOR PETROLEUM CONTAMINATION (WATER AND SOIL SAMPLES FOR REMEDIATION OF PETROLEUM CONTAMINATED SOIL)	4.000 EACH	_____	_____	_____	_____
0590	2549-0041060 BYPASS PUMPING SEWAGE	1.000 LS	_____	_____	_____	_____
0600	2554-0112006 WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 6 IN.	119.000 LF	_____	_____	_____	_____
0610	2554-0112008 WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 8 IN.	90.000 LF	_____	_____	_____	_____
0620	2554-0112012 WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 12 IN.	732.000 LF	_____	_____	_____	_____
0630	2554-0203000 FITTINGS BY WEIGHT, DUCTILE IRON	2,026.000 LB	_____	_____	_____	_____
0640	2554-0204120 WATER SERVICE STUB, COPPER, 2 IN.	3.000 EACH	_____	_____	_____	_____
0650	2554-0205720 WATER SERVICE CURB STOP AND BOX, COPPER, 2 IN.	3.000 EACH	_____	_____	_____	_____
0660	2554-0207006 VALVE, GATE, DIP, 6 IN.	3.000 EACH	_____	_____	_____	_____

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0670	2554-0207012 VALVE, GATE, DIP, 12 IN.	2.000 EACH	_____._____		_____._____	
0680	2554-0208006 TAPPING VALVE ASSEMBLY, 6 IN.	4.000 EACH	_____._____		_____._____	
0690	2554-0208012 TAPPING VALVE ASSEMBLY, 12 IN.	1.000 EACH	_____._____		_____._____	
0700	2554-0210201 FIRE HYDRANT ASSEMBLY, WM-201	2.000 EACH	_____._____		_____._____	
0710	2554-0211006 FLUSHING DEVICE (BLOWOFF), 6 IN.	3.000 EACH	_____._____		_____._____	
0720	2554-0214000 FIRE HYDRANT ADJUSTMENT	5.000 EACH	_____._____		_____._____	
0730	2555-0000010 DELIVER AND STOCKPILE SALVAGED MATERIALS	LUMP SUM	LUMP SUM		_____._____	
0740	2599-9999005 ('EACH' ITEM) CONNECT TO EXISTING SANITARY SEWER	5.000 EACH	_____._____		_____._____	
0750	2599-9999005 ('EACH' ITEM) CONNECT TO EXISTING STORM SEWER	6.000 EACH	_____._____		_____._____	
0760	2599-9999005 ('EACH' ITEM) CONNECT TO EXISTING WATER MAIN	7.000 EACH	_____._____		_____._____	
0770	2599-9999005 ('EACH' ITEM) MANHOLE, WATER MAIN AIR RELEASE VALVE	1.000 EACH	_____._____		_____._____	
0780	2599-9999005 ('EACH' ITEM) SALVAGE FIRE HYDRANT	2.000 EACH	_____._____		_____._____	

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0790	2599-9999005 ('EACH' ITEM) TILE REPAIR 12 OR LESS	5.000 EACH	_____._____		_____._____	
0800	2599-9999005 ('EACH' ITEM) TILE REPAIR 12-24	5.000 EACH	_____._____		_____._____	
0810	2599-9999007 ('HOURS' ITEM) EXPLORATORY EXCAVATION, GENERAL	20.000 HOUR	_____._____		_____._____	
0820	2599-9999007 ('HOURS' ITEM) EXPLORATORY EXCAVATION, VAC TRUCK	20.000 HOUR	_____._____		_____._____	
0830	2599-9999009 ('LINEAR FEET' ITEM) WATER MAIN REMOVAL OR ABANDONMENT	917.000 LF	_____._____		_____._____	
0840	2599-9999010 ('LUMP SUM' ITEM) TEMPORARY WATER	LUMP SUM	LUMP SUM		_____._____	
0850	2599-9999018 ('SQUARE YARDS' ITEM) POLYSTYRENE INSULATION, 4	8.000 SY	_____._____		_____._____	
0860	2601-2636043 SEEDING AND FERTILIZING (RURAL)	1.720 ACRE	_____._____		_____._____	
0870	2601-2636044 SEEDING AND FERTILIZING (URBAN)	1.560 ACRE	_____._____		_____._____	
0880	2601-2638352 SLOPE PROTECTION, WOOD EXCELSIOR MAT	1,015.000 SQ	_____._____		_____._____	
0890	2601-2640350 SPECIAL DITCH CONTROL, WOOD EXCELSIOR MAT	384.000 SQ	_____._____		_____._____	

Proposal Schedule of Items

Proposal ID: 11-7422-620

SECTION: 0001 ROADWAY ITEMS

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item Number Item Description	Item Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0900	2602-0000020 SILT FENCE	1,842.000 LF	_____	_____	_____	_____
0910	2602-0000030 SILT FENCE FOR DITCH CHECKS	565.000 LF	_____	_____	_____	_____
0920	2602-0000071 REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	2,407.000 LF	_____	_____	_____	_____
0930	2602-0000101 MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	2,407.000 LF	_____	_____	_____	_____
0940	2602-0000150 STABILIZED CONSTRUCTION ENTRANCE, EC-303	190.000 LF	_____	_____	_____	_____
0950	2602-0000309 PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA.	500.000 LF	_____	_____	_____	_____
0960	2602-0000530 GRATE INTAKE SEDIMENT FILTER BAG	8.000 EACH	_____	_____	_____	_____
0970	2602-0000540 MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG	8.000 EACH	_____	_____	_____	_____
0980	2602-0000550 REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG	8.000 EACH	_____	_____	_____	_____
0990	2602-0010010 MOBILIZATIONS, EROSION CONTROL	8.000 EACH		500.00000		4,000.00

Section: 0001 **Total:** _____.____

Total Bid: _____.____

SHEET TOTAL 69 PAGES

PCC PAVEMENT - REPLACE

STBG-SWAP-7422(620)--SG-11

LETTING DATE

APRIL 19, 2022

CITY OF STORM LAKE

CITY OF STORM LAKE, IA

URBAN ROAD SYSTEM

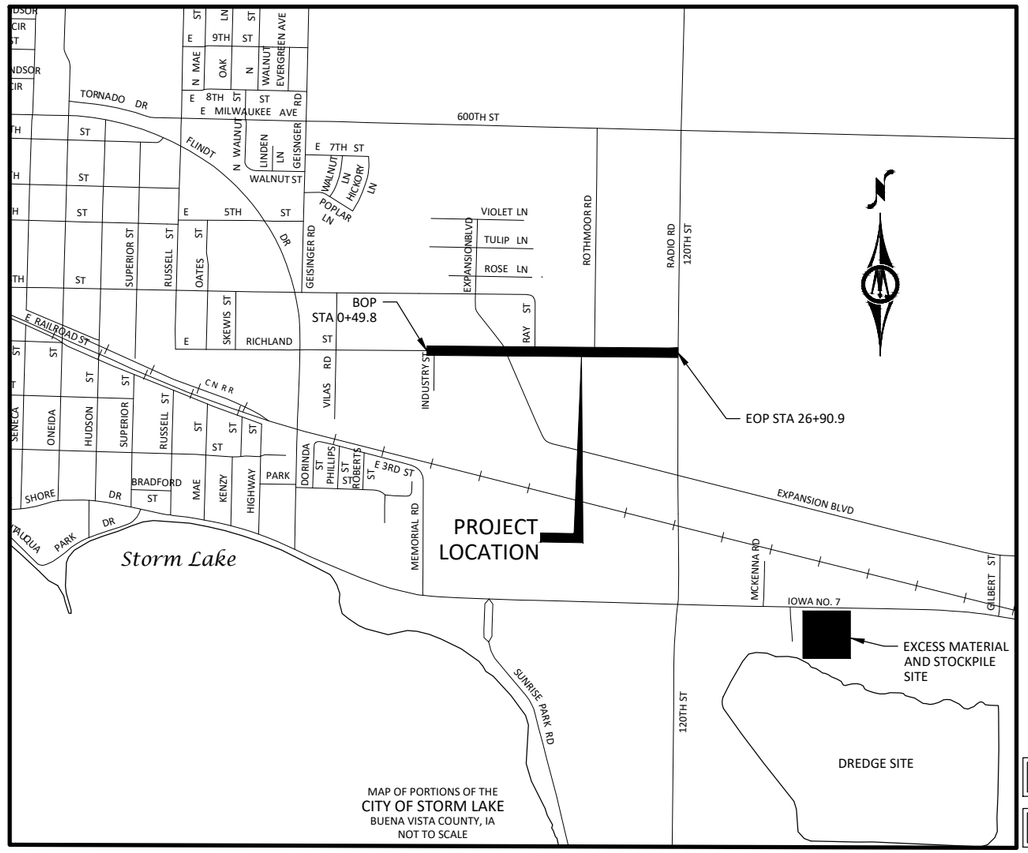
EAST RICHLAND STREET, FROM INDUSTRY STREET EAST 600 FEET TO RADIO ROAD

PCC PAVEMENT - GRADE AND REPLACE

INDEX OF TABULATIONS

This Data Entry Sheet fills Tab 111-25 effective 10-18-11

Tabulation	Tabulation Title	Sheet No.
DE 100 1A	ESTIMATED PROJECT QUANTITIES	C.01
DE 100 1D	PROJECT DESCRIPTION	C.01
DE 100 4A	ESTIMATE REFERENCE INFORMATION	C.02 - C.04
DE 100 22	ROLLED EROSION CONTROL	C.05
DE 100 17	TABULATION OF SILT FENCES	C.05
DE 100-18	SILT FENCES FOR DITCH CHECKS	C.05
DE 100-19	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	C.05
DE 100 24	PCC PAVEMENT	C.06
DE 100 37	GRATE INTAKE SEDIMENT FILTER BAG	C.06
DE 102 6C	FULL DEPTH PATCHES	C.07
DE 102 10	PARTIAL DEPTH PCC FINISH PATCHES	C.07
DE 104 3	DRAINAGE STRUCTURE BY ROAD CONTRACTOR	C.07
	STORM SEWER STRUCTURES AND PIPES	C.08
DE 104 5C	LIST OF SUBDRAIN WORK	C.09
DE 104 10	ADJUSTMENT OF FIXTURES	C.09
DE 105 1	MILEAGE SUMMARY	A.01
DE 105 3	INDEX OF SHEETS	A.01
DE 105 4	STANDARD ROAD PLANS	C.09
DE 110 1	REMOVAL OF PAVEMENT	C.10
DE 110 8	REMOVAL OF CONCRETE DRIVES	C.10
DE 110 12	POLLUTION PREVENTION PLAN	RC.01
DE 110 13	DELIVERY AND STOCKPILING	C.10
DE 110 14	SANITARY, STORM SEWER AND WATERMAIN ABANDONMENT OR REMOVAL	C.10
DE 110 15	REMOVAL OF INTAKES AND UTILITY ACCESSES	C.10
DE 111 25	INDEX OF TABULATIONS	A.01
DE 112 9	SHOULDERS	C.11
DE 112 7	RUMBLE STRIP PANEL	C.11
DE 190 62	EXISTING SIGNS TO BE REMOVED	C.11
	WATERMAIN CONSTRUCTION	C.12
	WATER SERVICES	C.12
	SANITARY SEWER STRUCTURES AND PIPES	C.12
	PAVED DRIVES	C.12



INDEX OF SHEETS	105-3 10-18-05
SHEET NUMBER	SHEET TITLE
A.01 - A.02	TITLE SHEET & LEGEND
B.01 - B.03	TYPICAL SECTION / DETAILS
C.01 - C.04	QUANTITIES AND ESTIMATE REFERENCE NOTES
C.05 - C.12	TABULATION TABLES
D.01 - D.04	RICHLAND STREET PLAN & PROFILE
ED.01 - ED.09	DRAINAGE CHANNEL & ROADWAY DITCHES
G.01 - G.04	EXISTING CONDITIONS
G.05 - G.08	SURVEY CONTROL POINTS
J.01 - J.03	DETOUR/TRAFFIC CONTROL/STAGING/SIGN TABULATION
L.01 - L.03	INTERSECTION DETAILS
M.01 - M.07	STORM SEWER PLAN & PROFILE
MSA.01	SANITARY SEWER PLAN & PROFILE
MWM.01 - MWM.03	WATER PLAN & PROFILE
R.01 - R.03	REMOVALS
RC.01 - RC.05	SWPPP/EROSION CONTROL PLAN
W.01 - W.06	CROSS SECTIONS

THIS PROJECT IS COVERED BY THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF GENERAL PERMIT NO. 2 AND THE STORM WATER POLLUTION PLAN WHICH IS A PART OF THESE CONTRACT DOCUMENTS. REFER TO SECTION 2602 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.15 of the Specifications.

IOWA ONE CALL
1-800-292-8989 | 811
www.iowaonecall.com

PLAN REVISIONS		
DATE	SHEET NUMBER	APPROVED BY

RESOURCE LIST

CITY OF STORM LAKE

City Hall
620 Erie Street
P.O. Box 1086
Storm Lake, IA 50588

City Manager:
Keri Navratil
Assistant City Manager:
David Derragon

Mayor: Mike Porsch

City Council Members:
Dan Smith
Jose Ibarra
Kevin Mckinney
Maria Ramos
Tyson Rice

Infrastructure Engineer:
Josh Pope P.E.
Bolton & Menk, Inc.
218 11th Street SW Plaza
712-580-5075

Public Services Supervisor:
Scott Bonebrake

UTILITIES

GAS
Alliant Energy
Storm Lake, IA 50588
1-800-822-4348

TELEPHONE/CABLE
Long Lines
118 E. 5th St.
Storm Lake, IA 50588
712-213-7425

Mediacom
720 Lake Ave.
Storm Lake, IA 50588
855-633-4226

Century Link
426 Lake Ave.
Storm Lake, IA 50588
1-800-261-1691

LOCAL
City of Storm Lake
433 Vilas Rd.
Storm Lake, IA 50588
712-732-8029

ELECTRIC
Mid American
1016 Vestal Street
Storm Lake, IA 50588
888-427-5632

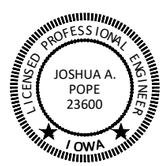
MILEAGE SUMMARY	105-1 09-27-94	
Div.	Location	Lin. Ft.	Miles
1	RICHLAND ST.: STA. 0+49.8 TO STA. 26+90.9	2641.1	0.50

04-30-02 101-7

DESIGN DATA
RICHLAND STREET

2019 AADT	2210	V.P.D.
2054 AADT	3950	V.P.D.
2054 D.H.V.		V.P.H.
TRUCKS	15	%
TOTAL DESIGN ESALS	880,000	

REVIEWED & APPROVED _____ DATE: 11/16/2021
Public Services Supervisor



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

JOSHUA A. POPE, P.E.

LIC. NO. 23600 DATE: 01/17/2022

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021

PAGES OR SHEETS COVERED BY THIS SEAL:

ALL SHEETS

BOLTON & MENK

218 11TH STREET SW PLAZA
SPENCER, IOWA 51301
Phone: (712) 580-5075
Email: Spencer@bolton-menk.com
www.bolton-menk.com

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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER A.01	REVISED

EXISTING TOPOGRAPHIC SYMBOLS

- ACCESS GRATE
- AIR CONDITION UNIT
- ANTENNA
- AUTO SPRINKLER CONNECTION
- BARRICADE PERMANENT
- BASKETBALL POST
- BENCH
- BIRD FEEDER
- BOLLARD
- BUSH
- CATCH BASIN RECTANGULAR CASTING
- CATCH BASIN CIRCULAR CASTING
- CURB STOP
- CLEAN OUT
- CULVERT END
- DRINKING FOUNTAIN
- DOWN SPOUT
- FILL PIPE
- FIRE HYDRANT
- FLAG POLE
- FLARED END / APRON
- FUEL PUMP
- GRILL
- GUY WIRE ANCHOR
- HANDHOLE
- HANDICAP SPACE
- IRRIGATION SPRINKLER HEAD
- IRRIGATION VALVE BOX
- LIFT STATION CONTROL PANEL
- LIFT STATION
- LIGHT ON POLE
- LIGHT-GROUND
- MAILBOX
- MANHOLE-COMMUNICATION
- MANHOLE-ELECTRIC
- MANHOLE-GAS
- MANHOLE-HEAT
- MANHOLE-SANITARY SEWER
- MANHOLE-STORM SEWER
- MANHOLE-UTILITY
- MANHOLE-WATER
- METER
- ORDER MICROPHONE
- PARKING METER
- PAVEMENT MARKING
- PEDESTAL-COMMUNICATION
- PEDESTAL-ELECTRIC
- PEDESTRIAN PUSH BUTTON
- PICNIC TABLE
- POLE-UTILITY
- POST
- RAILROAD SIGNAL POLE
- REGULATION STATION GAS
- SATELLITE DISH
- SIGN TRAFFIC
- SIGNAL CONTROL CABINET
- SOIL BORING
- SIREN
- TELEPHONE BOOTH
- TILE INLET
- TILE OUTLET
- TILE RISER
- TRANSFORMER-ELECTRIC
- TREE-CONIFEROUS
- TREE-DEAD
- TREE-DECIDUOUS
- TREE STUMP
- TRAFFIC ARM BARRIER
- TRAFFIC SIGNAL
- TRASH CAN
- UTILITY MARKER
- VALVE
- VALVE POST INDICATOR
- VALVE VAULT
- VENT PIPE
- WATER SPIGOT
- WELL
- WETLAND DELINEATED MARKER
- WETLAND
- WET WELL
- YARD HYDRANT

PROPOSED TOPOGRAPHIC SYMBOLS

- CLEANOUT
- MANHOLE
- LIFT STATION
- STORM SEWER CIRCULAR CASTING
- STORM SEWER RECTANGULAR CASTING
- STORM SEWER FLARED END / APRON
- STORM SEWER OUTLET STRUCTURE
- STORM SEWER OVERFLOW STRUCTURE
- CURB BOX
- FIRE HYDRANT
- WATER VALVE
- WATER REDUCER
- WATER BEND
- WATER TEE
- WATER CROSS
- WATER SLEEVE
- WATER CAP / PLUG
- RIP RAP
- DRAINAGE FLOW
- TRAFFIC SIGNS

SURVEY SYMBOLS

- BENCH MARK LOCATION
- CONTROL POINT
- MONUMENT IRON FOUND
- CAST IRON MONUMENT

EXISTING TOPOGRAPHIC LINES

- RETAINING WALL
- FENCE
- FENCE-DECORATIVE
- GUARD RAIL
- TREE LINE
- BUSH LINE

SURVEY LINES

- CONTROLLED ACCESS
- BOUNDARY
- CENTERLINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- EXISTING LOT LINE
- PROPOSED LOT LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY

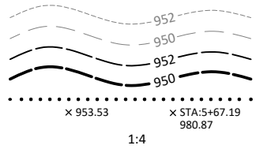
EXISTING UTILITY LINES

- FORCEMAIN
- SANITARY SEWER
- SANITARY SERVICE
- STORM SEWER
- STORM SEWER DRAIN TILE
- WATERMAIN
- WATER SERVICE

PROPOSED UTILITY LINES

- FORCEMAIN
- SANITARY SEWER
- SANITARY SERVICE
- STORM SEWER
- STORM SEWER DRAIN TILE
- WATERMAIN
- WATER SERVICE

GRADING INFORMATION



- EXISTING CONTOUR MINOR
- EXISTING CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED GRADING LIMITS / SLOPE LIMITS
- PROPOSED SPOT ELEVATION
- RISE:RUN (SLOPE)

HATCH PATTERNS

- ASPHALT
- CONCRETE
- GRAVEL
- LEAN CLAY WITH SAND
- LEAN CLAY
- FILL
- CLAYEY SAND

EXISTING PRIVATE UTILITY LINES

NOTE:
EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY IOWA ONE CALL, 1-800-292-8989.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"

- F F F F — UNDERGROUND FIBER OPTIC
- E E E E — UNDERGROUND ELECTRIC
- G G G G — UNDERGROUND GAS
- C C C C — UNDERGROUND COMMUNICATION
- OE OE OE — OVERHEAD ELECTRIC
- OC OC OC — OVERHEAD COMMUNICATION
- OU OU OU — OVERHEAD UTILITY

UTILITIES IDENTIFIED WITH A QUALITY LEVEL :

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL
EXAMPLE: G-A G-A — UNDERGROUND GAS, QUALITY LEVEL A
UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-02.

UTILITY QUALITY LEVELS:

QUALITY LEVEL D: PROVIDES THE MOST BASIC LEVEL OF INFORMATION. IT INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS. RECORDS MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICES MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASES, CONSTRUCTION PLANS, ETC.

QUALITY LEVEL C: INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. INCLUDES QUALITY LEVEL D ACTIVITIES.

QUALITY LEVEL B: INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND COLLECTING THE INFORMATION THROUGH A SURVEY METHOD. INCLUDES QUALITY LEVEL C AND D TASKS.

QUALITY LEVEL A: PROVIDES THE HIGHEST LEVEL OF ACCURACY. IT INVOLVES LOCATING OR POTHOLING UTILITIES AS WELL AS ACTIVITIES IN QUALITY LEVELS B, C, AND D. THE LOCATED FACILITY INFORMATION IS SURVEYED AND MAPPED AND THE DATA PROVIDES PRECISE PLAN AND PROFILE INFORMATION.

ABBREVIATIONS

A	ALGEBRAIC DIFFERENCE	GRAV	GRAVEL	RT	RIGHT
ADJ	ADJUST	GU	GUTTER	SAN	SANITARY SEWER
ALT	ALTERNATE	GV	GATE VALVE	SCH	SCHEDULE
B-B	BACK TO BACK	HDPE	HIGH DENSITY POLYETHYLENE	SERV	SERVICE
BIT	BITUMINOUS	HH	HANDHOLE	SHLD	SHOULDER
BLDG	BUILDING	HP	HIGH POINT	STA	STATION
BMP	BEST MANAGEMENT PRACTICE	HWL	HIGH WATER LEVEL	STD	STANDARD
BR	BEGIN RADIUS	HYD	HYDRANT	STM	STORM SEWER
BV	BUTTERFLY VALVE	I	INVERT	TC	TOP OF CURB
CB	CATCH BASIN	K	CURVE COEFFICIENT	TE	TEMPORARY EASEMENT
C&G	CURB AND GUTTER	L	LENGTH	TEMP	TEMPORARY
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TNH	TOP NUT HYDRANT
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TP	TOP OF PIPE
CL	CENTER LINE	LT	LEFT	TYP	TYPICAL
CL.	CLASS	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
CLVT	CULVERT	MIN	MINIMUM	VERT	VERTICAL
CMP	CORRUGATED METAL PIPE	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
C.O.	CHANGE ORDER	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
COMM	COMMUNICATION	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
CON	CONCRETE	NTS	NOT TO SCALE	WM	WATERMAIN
CSP	CORRUGATED STEEL PIPE	NWL	NORMAL WATER LEVEL		
DIA	DIAMETER	OHW	ORDINARY HIGH WATER LEVEL		
DIP	DUCTILE IRON PIPE	PC	POINT OF CURVE	AC	ACRES
DWY	DRIVEWAY	PCC	PORTLAND CEMENT CONCRETE	CF	CUBIC FEET
E	EXTERNAL CURVE DISTANCE	PE	PERMANENT EASEMENT	CV	COMPACTED VOLUME
ELEC	ELECTRIC	PED	PEDESTRIAN, PEDESTAL	CY	CUBIC YARD
ELEV	ELEVATION	PERF	PERFORATED PIPE	EA	EACH
EOF	EMERGENCY OVERFLOW	PERM	PERMANENT	EV	EXCAVATED VOLUME
ER	END RADIUS	PI	POINT OF INTERSECTION	LB	POUND
ESMT	EASEMENT	PL	PROPERTY LINE	LF	LINEAR FEET
EX	EXISTING	PRC	POINT OF REVERSE CURVE	LS	LUMP SUM
FES	FLARED END SECTION	PT	POINT OF TANGENT	LV	LOOSE VOLUME
F-F	FACE TO FACE	PVC	POLYVINYL CHLORIDE PIPE	SF	SQUARE FEET
FF	FINISHED FLOOR	PVMT	PAVEMENT	SV	STOCKPILE VOLUME
F&I	FURNISH AND INSTALL	R	RADIUS	SY	SQUARE YARD
FM	FORCEMAIN	R/W	RIGHT-OF-WAY		
FO	FIBER OPTIC	RCP	REINFORCED CONCRETE PIPE		
F.O.	FIELD ORDER	RET	RETAINING		
GRAN	GRANULAR	RSC	RIGID STEEL CONDUIT		

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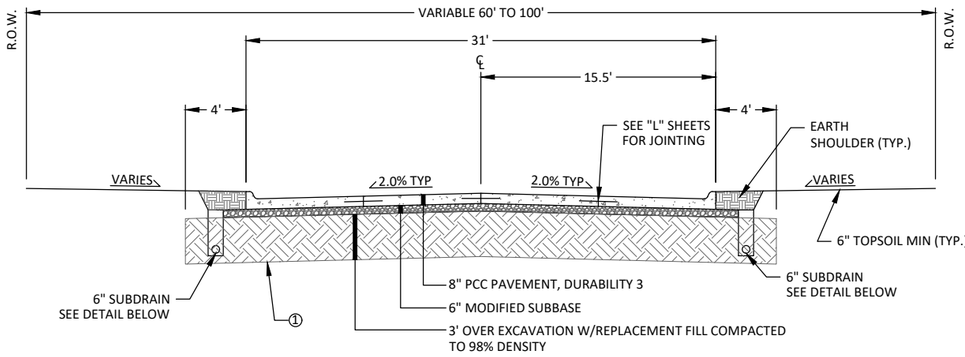
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER A.02	REVISED



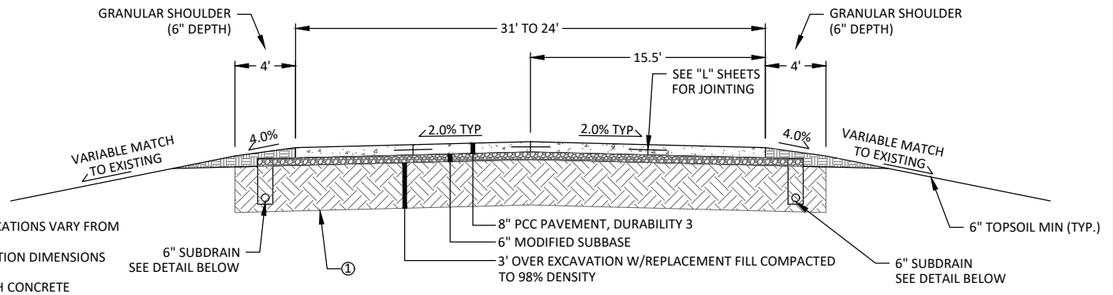
TYPICAL SECTION
STA. 0+50 - 5+75
NOT TO SCALE

GENERAL NOTES:

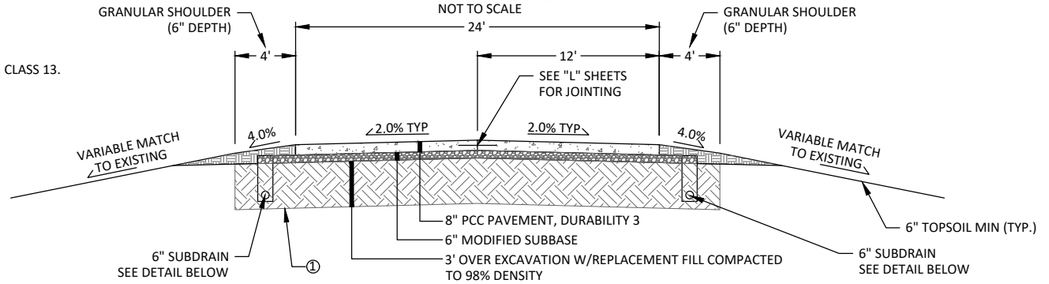
1. PAVEMENT SLOPES AT INTERSECTION LOCATIONS VARY FROM THOSE SHOWN ON THE TYPICAL SECTION
2. ANY VARIATIONS FROM THE TYPICAL SECTION DIMENSIONS ARE SHOWN ON THE PLAN DRAWINGS
3. GRADE ALL TOPSOIL MATERIAL TO MATCH CONCRETE SURFACES
4. SEE W SHEETS FOR VARIATIONS TO STANDARD CROSS SLOPE
5. 3' OVER EXCAVATION DEPTH SHALL EXTEND 4' OUTSIDE EDGE OF PAVING

TYPICAL SECTION CONSTRUCTION NOTES:

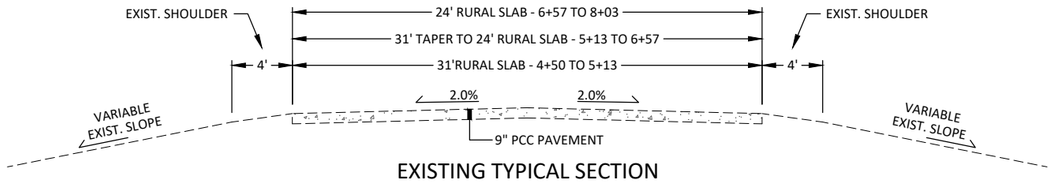
① GRADING ABOVE THIS LINE IS INCLUDED IN EXCAVATION, CLASS 13.



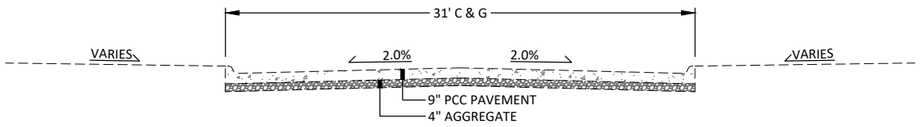
TYPICAL SECTION
STA. 5+75 - 6+62.5
NOT TO SCALE



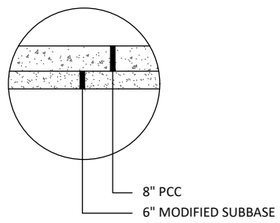
TYPICAL SECTION
STA. 6+62.5 - 7+66
NOT TO SCALE



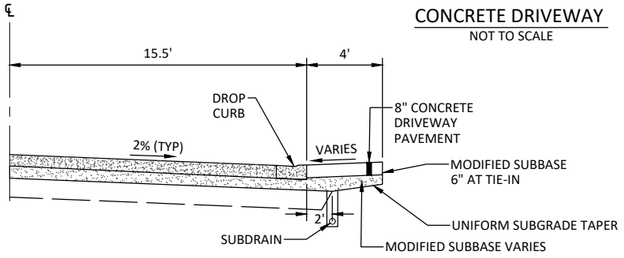
EXISTING TYPICAL SECTION
STA. 4+50 - 8+03
NOT TO SCALE



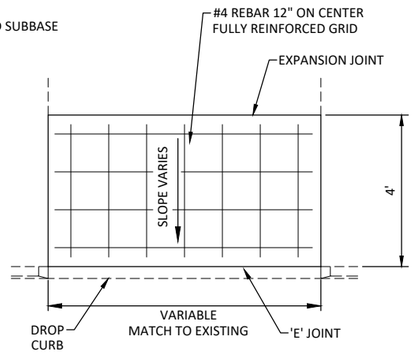
EXISTING TYPICAL SECTION
STA. 0+50 - 4+50
NOT TO SCALE



CONCRETE DRIVEWAY
NOT TO SCALE

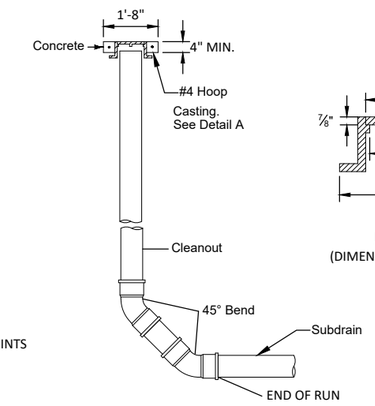


CONCRETE DRIVEWAY SECTION

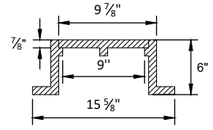


CONCRETE DRIVEWAY DETAIL
NOT TO SCALE

NOTE:
1. REBAR IS INCIDENTAL TO 8" CONCRETE PAVEMENT - DRIVEWAY BID ITEM.
2. ALL JOINTS SHALL BE SAW CUT. TOOL JOINTS WILL NOT BE ALLOWED.

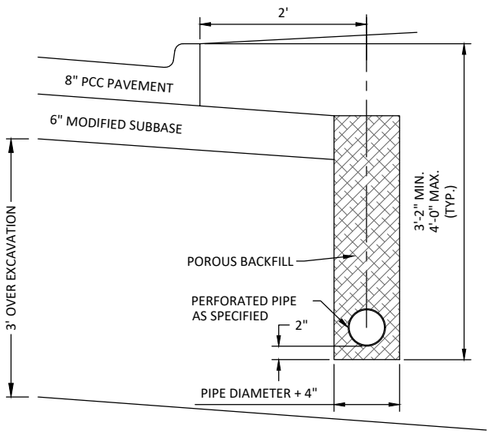


SUBDRAIN CLEANOUT
NOT TO SCALE



DETAIL A ① ②
(DIMENSIONS ARE NOMINAL)

SUBDRAIN NOTES:
1. LIGHT DUTY CASTING. LABEL LID WITH "STORM C.O.".
2. DESIGN IS INTENDED FOR USE IN CONJUNCTION WITH 8 INCH PVC RISER PIPE. OTHER SIZED CAPS MAY BE USED WITH SMALLER PIPE, AS APPROVED BY THE ENGINEER.



SUBSURFACE ROADWAY EDGE DRAIN
TYPE 7A INSTALLATION
NOT TO SCALE

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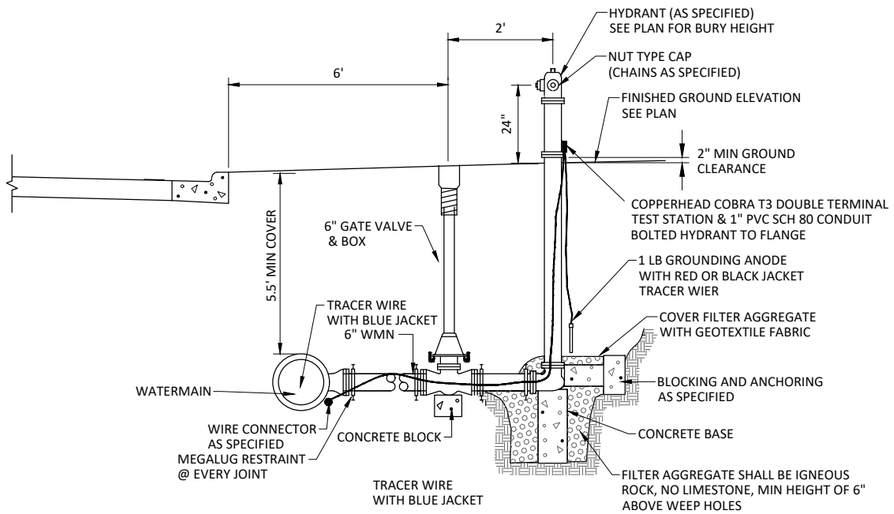
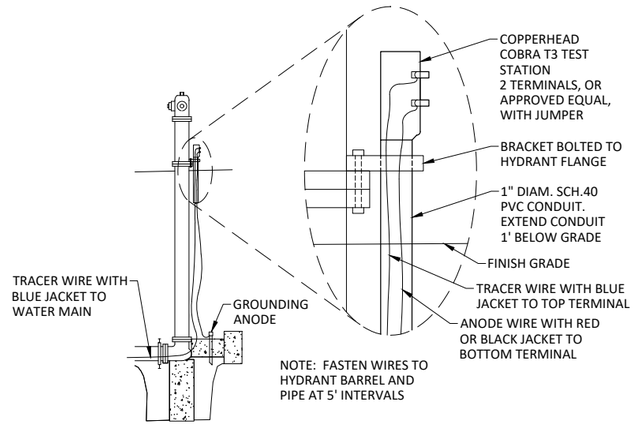
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER B.01	REVISED

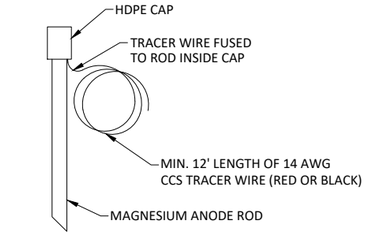


NOTES
1. HYDRANTS LOCATED WHERE THE GROUNDWATER TABLE IS ABOVE THE DRAIN OUTLET SHALL HAVE THE OUTLET DRAIN PLUGGED AND SHALL BE EQUIPPED WITH A TAG STATING "PUMP AFTER USE"
2. REFER TO TRACER WIRE DETAILS FOR ADDITIONAL INFORMATION.

HYDRANT INSTALLATION, MEGALUGS
NOT TO SCALE

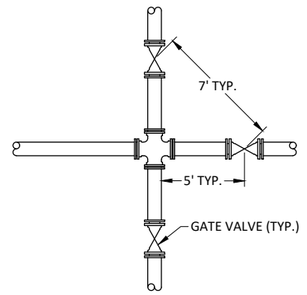


TRACER WIRE AT HYDRANT
NOT TO SCALE



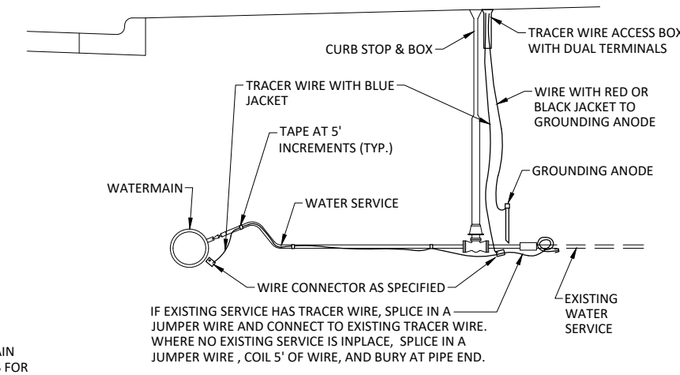
NOTE: MAGNESIUM ROD DIMENSIONS SHALL BE APPROX. 18" LONG BY 1.3" DIAM., AND APPROX. 1 LB IN WEIGHT

GROUNDING ANODE
NOT TO SCALE

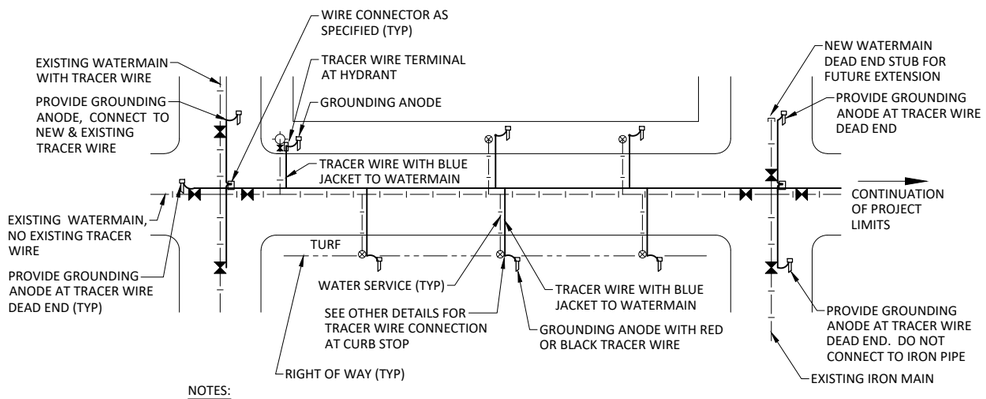


NOTES:
1. WHERE GATE VALVES ARE CLUSTERED TOGETHER, THEY SHALL BE SPACED ADEQUATELY TO ALLOW SELF PROPELLED COMPACTION EQUIPMENT TO PASS BETWEEN EACH VALVE BOX.
2. THE DIMENSIONS SHOWN HERE MAY BE ADJUSTED IN THE FIELD BASED ON THE SIZE OF THE CONTRACTOR'S COMPACTION EQUIPMENT.
3. THE USE OF HAND OPERATED MOTORIZED COMPACTION EQUIPMENT IS ALSO REQUIRED AROUND VALVE BOXES.

GATE VALVE SPACING
NOT TO SCALE

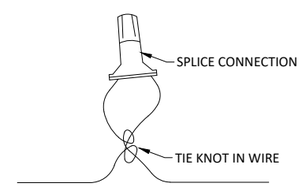


TRACER WIRE AT WATER SERVICE INSTALLATION RECONSTRUCTION
NOT TO SCALE



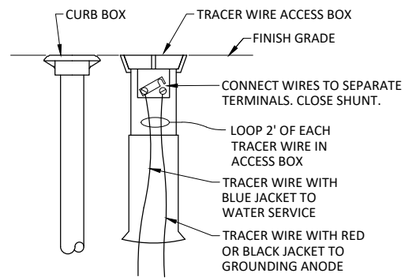
NOTES:
1. NUMBER OF SERVICES, CASTINGS AND TRACER WIRE ACCESS BOXES REQUIRED PER BLOCK VARIES. REFER TO MWM SHEETS.
2. CONNECTIONS TO EXISTING WATERMAINS AND TRACER WIRES VARY BY LOCATION.
3. DO NOT CAD WELD TRACER WIRE TO DUCTILE IRON PIPE.

TRACER WIRE SYSTEM SCHEMATIC - WATER DISTRIBUTION
NOT TO SCALE



WHERE IN-LINE SPLICES ARE REQUIRED ALONG PIPES, THE TRACER WIRE SHALL BE KNOTTED PRIOR TO INSERTION INTO THE SPLICE CONNECTION.

IN-LINE TRACER WIRE SPLICE
NOT TO SCALE



TRACER WIRE ACCESS BOX AT CURB BOX
NOT TO SCALE

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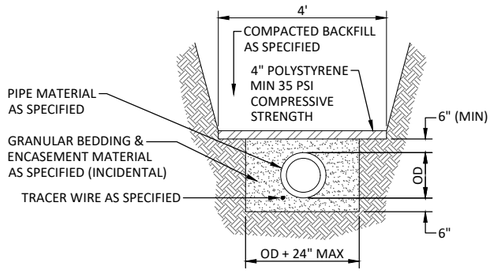
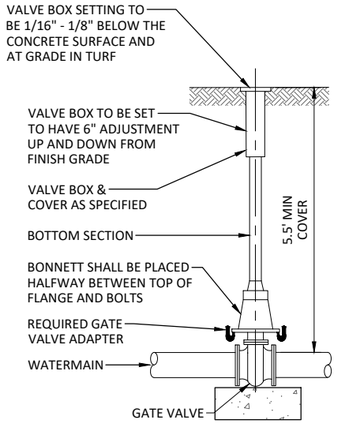
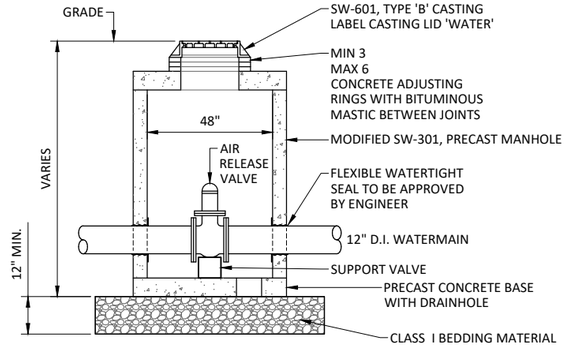


WATERMAIN INSULATION
NOT TO SCALE

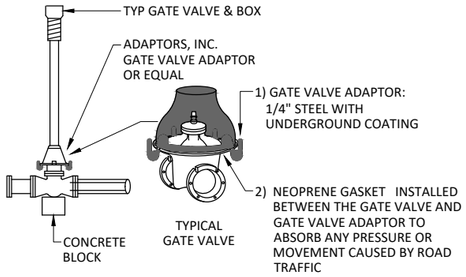
NOTES:
1. VALVE BOX SHALL BE CENTERED ON OPERATING NUTS, STRAIGHT, FREE FROM DEBRIS, AND ALL SECTIONS UNBROKEN
2. DEEP VALVES SHALL HAVE NUT EXTENSIONS INSTALLED TO ELEVATION TO ACCOMMODATE STANDARD 10' KEY; BOTTOM NUT SHALL BE BOLTED TO VALVE NUT AND ONLY ONE SECTION
3. COMPACTION WITH MECHANICAL TAMPER AROUND VALVE BOX SHALL BE PLACED AND COMPACTED WITH 1' MAXIMUM LIFTS TO ACHIEVE COMPACTION



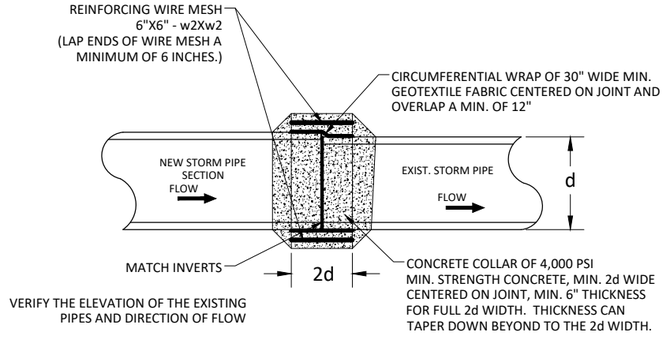
GATE VALVE BOX INSTALLATION
NOT TO SCALE



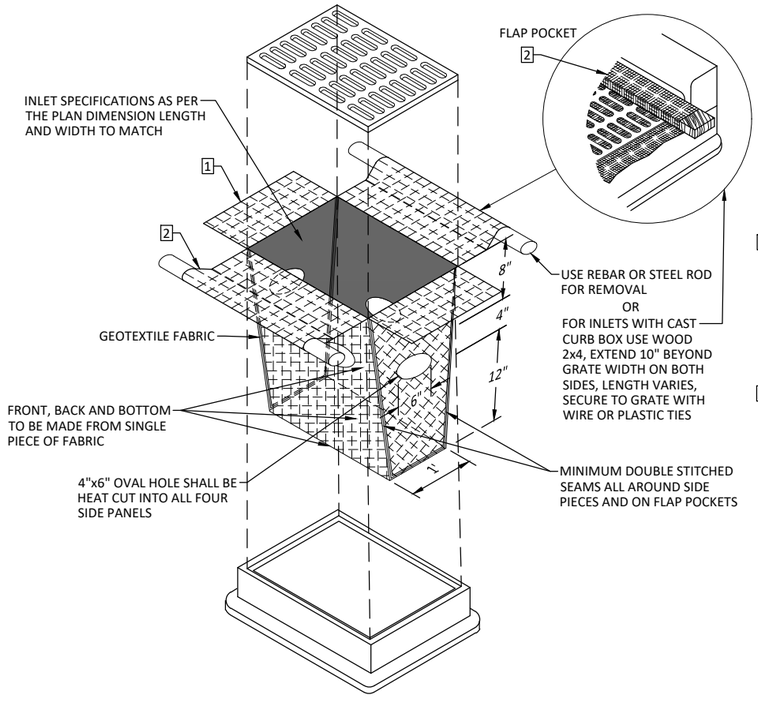
WATER MAIN MANHOLE W/AIR RELEASE VALVE
NOT TO SCALE



GATE VALVE ADAPTOR
NOT TO SCALE



STORM PIPE CONNECTION
NOT TO SCALE



NOTES:
1 INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL IN THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

FINISHED SIZE, INCLUDING POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

2 FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2x4.

INSTALLATION NOTES:
DO NOT INSTALL PROTECTION IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CLINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION DEVICE - DROP IN
NOT TO SCALE

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ESTIMATED PROJECT QUANTITIES

This Data Entry Sheet fills Tab 100-1A effective 07-15-97

Item No.	Item Code	Item	Unit	PARTICIPATE QTY	NON-PARTICIPATE QTY	Total	As Built Qty.
1	2102-2713070	EXCAVATION, CL 13, RDWY AND BORROW	CY	10940		10940	
2	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	3969		3969	
3	2107-0875000	COMPACTION W/MOISTURE AND DENSITY CONTROL	CY	4697		4697	
4	2115-0100000	MODIFIED SUBBASE	CY	846		846	
5	2121-7425010	GRANULAR SHOULDER, TYPE A	TON	152.9		152.9	
6	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	8.1		8.1	
7	2128-0000120	FURNISH AND APPLY GRANULAR SHOULDER MATERIAL	TON	305		305	
8	2301-1033080	STD/S-F PCC PAV'T, CL C, CL 3, 8"	SY	4354.2		4354.2	
9	2315-8275025	SURFACE, DRIVEWAY, CLASS 'A' CRUSHED STONE	TON	160		160	
10	2401-6745650	REMOVAL OF EXISTING STRUCTURE	LS	1		1	
11	2402-2720100	EXCAVATION, CL 20, ROADWAY PIPE CULVERT	CY	415.3		415.3	
12	2416-0100018	APRON, CONC, 18"	EACH	7		7	
13	2416-0100024	APRON, CONC, 24"	EACH	11		11	
14	2416-0100030	APRON, CONC, 30"	EACH	3		3	
15	2416-0100042	APRON, CONC, 42"	EACH	1		1	
16	2416-0102224	APRON, LOW CLEARANCE CONC, EQUIV DIA 24"	EACH	4		4	
17	2416-1170018	CULV, 3000D CONC ENT PIPE, 18"	LF	200		200	
18	2416-1170024	CULV, 3000D CONC ENT PIPE, 24"	LF	64		64	
19	2416-1170030	CULV, 3000D CONC ENT PIPE, 30"	LF	64		64	
20	2416-1202224	CULV,3000D LOW CLR ROADWAY PIPE, EQ DIA 24"	LF	112		112	
21	2416-1240024	CULV, 3000D CONC ROADWAY PIPE, 24"	LF	160		160	
22	2435-0130148	MANHOLE, SAN SEWER, SW-301, 48"	EACH	0	1	1	
23	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60"	EACH	1		1	
24	2435-0140184	MANHOLE, STORM SEWER, SW-401, 84"	EACH	1		1	
25	2435-0250500	INTAKE, SW-505	EACH	4		4	
26	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH	1		1	
27	2435-0700010	CONNECTION TO EXIST MANHOLE	EACH	3		3	
28	2502-8212206	SUBDRAIN, PERFORATED PLASTIC PIPE, 6"	LF	1982		1982	
29	2502-8221006	SUBDRAIN RISER, 6"	EACH	5		5	
30	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	9		9	
31	2503-0110018	STORM SEWER GRAVITY MAIN, TRENCHED, 18"	LF	83		83	
32	2503-0110024	STORM SEWER GRAVITY MAIN, TRENCHED, 24"	LF	413		413	
33	2503-0110030	STORM SEWER GRAVITY MAIN, TRENCHED, 30"	LF	99		99	
34	2503-0110036	STORM SEWER GRAVITY MAIN, TRENCHED, 36"	LF	32		32	
35	2503-0110042	STORM SEWER GRAVITY MAIN, TRENCHED, 42"	LF	80		80	
36	2503-0200036	REMOVE STORM SEWER PIPE LESS 36"	LF	100		100	
37	2504-0114008	SAN SEWER GRAVITY MAIN, TRENCHED, PVC, 8"	LF	0	62	62	
38	2504-0114024	SAN SEWER GRAVITY MAIN, TRENCHED, PVC, 24"	LF	0	175	175	
39	2504-0200406	SAN SEWER SERVICE STUB, PVC, 6"	LF	0	50	50	
40	2504-0240036	REMOVE SAN SEWER PIPE LESS 36"	LF	0	250	250	
41	2507-3250005	ENGINEERING FABRIC	SY	70		70	
42	2507-6800061	REVETMENT, CLASS E	TON	50		50	
43	2510-6745850	REMOVAL OF PAVEMENT	SY	3710.5		3710.5	
44	2515-2475008	DRIVEWAY, PCC, 8"	SY	243		243	
45	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	532.4		532.4	
46	2524-6765010	REMOVE AND REINSTALL SIGN	EACH	22		22	
47	2528-2518000	SAFETY CLOSURE	EACH	6		6	
48	2528-8445110	TRAFFIC CONTROL	LS	1		1	
49	2528-8445113	FLAGGER	EACH	30		30	
50	2529-5070110	PATCH, FULL-DEPTH FINISH, BY AREA	SY	471		471	
51	2529-5070111	PATCH,FULL-DEPTH FINISH,BY AREA(=>50 FT)	SY	668		668	
52	2529-5070120	PATCH, FULL-DEPTH FINISH, BY COUNT	EACH	22		22	
53	2529-8202000	RUMBLE STRIP PANEL (IN FULL DEPTH PATCH)	EACH	1		1	
54	2530-5070210	PATCH, PARTIAL-DEPTH PCC FINISH	SF	217		217	
55	2530-5070240	PARTIAL DEPTH PCC JNT AND CRACK REPAIR PATCH	LF	21		21	
56	2533-4980005	MOBILIZATION	LS	1		1	
57	2537-8900000	REMEDIATION OF PETRO CONTAMINATED SOIL	CY	0	1160	1160	
58	2537-8900100	SAMPLE AND TEST-PETRO CONTAMINATED (REMEDIATION)	EACH	0	4	4	
59	2549-0041060	BYPASS PUMPING, SEWAGE	LS	0	1	1	
60	2554-0112006	WATER MAIN, TRENCHED, DIP, 6"	LF	0	119	119	
61	2554-0112008	WATER MAIN, TRENCHED, DIP, 8"	LF	0	90	90	

ESTIMATED PROJECT QUANTITIES

This Data Entry Sheet fills Tab 100-1A effective 07-15-97

Item No.	Item Code	Item	Unit	PARTICIPATE QTY	NON-PARTICIPATE QTY	Total	As Built Qty.
62	2554-0112012	WATER MAIN, TRENCHED, DIP, 12"	LF	0	732	732	
63	2554-0203000	FITTINGS BY WEIGHT, DI	LB	0	2026	2026	
64	2554-0204120	WATER SERVICE STUB, COPPER, 2"	EACH	0	3	3	
65	2554-0205720	WATER SERVICE CURB STOP & BOX, COPPER, 2"	EACH	0	3	3	
66	2554-0207006	VALVE, GATE, DIP, 6"	EACH	0	3	3	
67	2554-0207012	VALVE, GATE, DIP, 12"	EACH	0	2	2	
68	2554-0208006	TAPPING VALVE ASSEMBLY, 6"	EACH	0	4	4	
69	2554-0208012	TAPPING VALVE ASSEMBLY, 12"	EACH	0	1	1	
70	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201	EACH	0	2	2	
71	2554-0211006	FLUSHING DEVICE, TEMPORARY, (BLOWOFF), 6"	EACH	0	3	3	
72	2554-0214000	FIRE HYDRANT ADJUSTMENT	EACH	0	5	5	
73	2555-0000010	DELIVER AND STOCKPILE SALVAGED MATERIAL	LS	0	1	1	
74	2599-9999005	CONNECT TO EXISTING SANITARY SEWER	EACH	0	5	5	
75	2599-9999005	CONNECT TO EXISTING STORM SEWER	EACH	6		6	
76	2599-9999005	CONNECT TO EXISTING WATER MAIN	EACH	0	7	7	
77	2599-9999005	MANHOLE, WATER MAIN AIR RELEASE	EACH	0	1	1	
78	2599-9999005	SALVAGE FIRE HYDRANT	EACH	0	2	2	
79	2599-9999005	TILE REPAIR <12"	EACH	5		5	
80	2599-9999005	TILE REPAIR 12"-24"	EACH	5		5	
81	2599-9999007	EXPLORATORY EXCAVATION, GENERAL	HOUR	16	4	20	
82	2599-9999007	EXPLORATORY EXCAVATION, VAC TRUCK	HOUR	16	4	20	
83	2599-9999009	WATER MAIN REMOVAL OR ABANDONMENT	LF	0	917	917	
84	2599-9999010	TEMPORARY WATER	LS	0	1	1	
85	2599-9999018	POLYSTYRENE INSULATION, 4"	SY	0	8	8	
86	2601-2636043	SEED AND FERTILIZE (RURAL)	ACRE	1.72		1.72	
87	2601-2636044	SEED AND FERTILIZE (URBAN)	ACRE	1.56		1.56	
88	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR	SQ	1015		1015	
89	2601-2640350	SPECIAL DITCH CONTROL,WOOD EXCELSIOR MAT	SQ	384		384	
90	2602-0000020	SILT FENCE	LF	1842		1842	
91	2602-0000030	SILT FENCE-DITCH CHECKS	LF	565		565	
92	2602-0000071	REMOVAL OF SILT FENCE/SILT FENCE-DITCH CHECK	LF	2407		2407	
93	2602-0000101	MAINT OF SILT FENCE/SILT FENCE-DITCH CHECK	LF	2407		2407	
94	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	LF	190		190	
95	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9"	LF	500		500	
96	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG	EACH	8		8	
97	2602-0000540	MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	8		8	
98	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	8		8	
99	2602-0010010	MOBILIZATION, EROSION CONTROL	EACH	8		8	

NOTE:
CONSTRUCTION SURVEY TO BE PERFORMED BY THE CONTRACTING AUTHORITY.

PROJECT DESCRIPTION

This Data Entry Sheet fills Tab 100-1D effective 10-18-05

THIS PROJECT INVOLVES THE RECONSTRUCTION OF E. RICHLAND STREET IN STORM LAKE, IOWA FROM INDUSTRY STREET EAST TO EXPANSION BOULEVARD. CONSTRUCTION PROPOSES TO REMOVE AND REPLACE EXISTING PCC PAVEMENT WITH NEW PCC PAVEMENT. UNDERGROUND IMPROVEMENTS TO FULLY REPLACE THE EXISTING WATER, SANITARY SEWER AND IMPROVE STORM SEWER WITH INTAKES AND MANHOLES FOR ADEQUATE DRAINAGE ALONG THIS CORRIDOR. IN ADDITION THIS PROJECT INCLUDES PCC PAVEMENT REPAIR OF E. RICHLAND STREET IN STORM LAKE, IOWA FROM EXPANSION BOULEVARD EAST TO RADIO ROAD. ROADWAY DITCHES WILL BE TRUED TO PROVIDE ADEQUATE DRAINAGE ALONG THIS CORRIDOR.

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ESTIMATE REFERENCE INFORMATION

This Data Entry Sheet fills Tab 100-4A effective 10-29-02

Item No.	Item Code	Description
1	2102-2713070	EXCAVATION, CL 13, RDWY AND BORROW
		ALL SUITABLE EXCESS EXCAVATED MATERIAL WILL REMAIN THE PROPERTY OF THE OWNER AND WILL BE LOADED, HAULED, AND PLACED TO THE EXCESS MATERIAL AND STOCKPILE SITE. CUT OF 10,940 CY AND A FILL OF 6,812 CY WITH A 1.35% FILL FACTOR, ASSUMED HAUL OFF OF 7,307 CY. APPROVED BORROW MATERIAL OF 6,341 CY WITH A 1.35% FILL FACTOR IS INCLUDED IN THIS QUANTITY AND IS THE REPLACEMENT MATERIAL FOR THE 3 FOOT OVER EXCAVATION UNDER E. RICHLAND STREET PAVING RE-CONSTRUCTION. SEE 'B' SHEETS FOR TYPICAL ROADWAY SECTIONS. THIS IS FULL COMPENSATION FOR THE EXCAVATION REQUIRED FOR THE RE-CONSTRUCTION OF E. RICHLAND STREET PAVING, BACKFILLING EARTH BEHIND EDGE OF PAVING, OPEN DITCH GRADING AND RE-SHAPING OF ROADWAY DITCHES AND SLOPES.
2	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD
		REMOVE AND SALVAGE A MINIMUM OF 9" TOPSOIL MATERIAL, HAUL TO DESIGNATED EXCESS MATERIAL AND STOCKPILE SITE. SPREAD TOPSOIL TO A MINIMUM OF 6" WHERE EVER SEEDING IS TO BE PLACED ACCORDING TO THE PLANS. ALL EXCESS TOPSOIL MATERIAL WILL REMAIN THE PROPERTY OF THE OWNER AND REMAIN AT THE EXCESS MATERIALS SITE.
3	2107-0875000	COMPACTION W/MOISTURE AND DENSITY CONTROL
		THIS QUANTITY IS THE APPROVED BORROW MATERIAL (NOT INCLUDING A FILL FACTOR), FOR THE 3 FOOT OVER EXCAVATION UNDER E. RICHLAND STREET PAVING RE-CONSTRUCTION. SEE 'B' SHEETS FOR TYPICAL ROADWAY SECTIONS.
4	2115-0100000	MODIFIED SUBBASE
		SEE TABULATIONS ON SHEETS C.06 (PCC PAVEMENT) AND C.12 (PAVED DRIVES).
5	2121-7425010	GRANULAR SHOULDER, TYPE A
		THIS IS MATERIAL TO BE USED ON E. RICHLAND STREET BETWEEN STATION 5+75 AND STATION 9+77.52. SURFACE PREPARATION SHALL BE SHOULDER CONSTRUCTION METHOD. SEE TABULATION ON SHEET C.11 (SHOULDERS).
6	2123-7450000	SHOULDER CONSTRUCTION, EARTH
		SEE TABULATION SHEET NO. C.11
7	2128-0000120	FURNISH AND APPLY GRANULAR SHOULDER MATERIAL
		THIS IS FOR SHOULDERS ON E. RICHLAND STREET BETWEEN EXPANSION BLVD. AND RADIO ROAD TO REPAIR EXISTING SHOULDERS.
8	2301-1033080	STD/S-F PCC PAV'T, CL C, CL 3, 8"
		CERTIFIED PLANT INSPECTION WILL BE REQUIRED DURING ALL PAVING OPERATIONS. GGBFS (SLAG) IS NOT PERMITTED FOR ANY WORK ON THIS PROJECT. CORING REQUIREMENTS FOR THICKNESS AND ASSOCIATED PAYMENT SCHEDULE, STANDARD SPECIFICATION SECTIONS 2301.01.A.2 - ITEMS A AND B AND SECTION 2301.05, A, 2 - TABLE 2301.05-1 SHALL NOT APPLY. ITEMS SHALL INCLUDE QUANTITIES FOR INTEGRAL CURB AND GUTTER SECTION. PCC COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 4,000 PSI AT 28 DAYS. SEE TABULATION ON SHEET C.06.
9	2315-8275025	SURFACE, DRIVEWAY, CLASS 'A' CRUSHED STONE
		ITEM SHALL BE USED TO BRING EXISTING GRAVEL DRIVEWAYS AND STREETS UP TO THE NEW PCC PAVEMENT.
10	2401-6745650	REMOVAL OF EXISTING STRUCTURE
		SEE TABULATION ON SHEET NO. C.10
11	2402-2720100	EXCAVATION, CL 20, ROADWAY PIPE CULVERT
		SEE TABULATION ON SHEET C.07
12	2416-0100018	APRON, CONC, 18"
		SEE TABULATIONS ON SHEET C.08 (STORM SEWER STRUCTURES).
13	2416-0100024	APRON, CONC, 24"
		SEE TABULATIONS ON SHEET C.08 (STORM SEWER STRUCTURES).
14	2416-0100030	APRON, CONC, 30"
		SEE TABULATIONS ON SHEET C.08 (STORM SEWER STRUCTURES).
15	2416-0100042	APRON, CONC, 42"
		SEE TABULATIONS ON SHEET C.08 (STORM SEWER STRUCTURES).
16	2416-0102224	APRON, LOW CLEARANCE CONC, EQUIV DIA 24"
		SEE TABULATIONS ON SHEET C.08 (STORM SEWER STRUCTURES).
17	2416-1170018	CULV, 3000D CONC ENT PIPE, 18"
		BID QUANTITY LENGTH DOES NOT INCLUDE APRON LENGTHS. SEE TABULATIONS ON SHEET C.08 (STORM SEWER PIPE).
18	2416-1170024	CULV, 3000D CONC ENT PIPE, 24"
		BID QUANTITY LENGTH DOES NOT INCLUDE APRON LENGTHS. SEE TABULATIONS ON SHEET C.08 (STORM SEWER PIPE).
19	2416-1170030	CULV, 3000D CONC ENT PIPE, 30"
		BID QUANTITY LENGTH DOES NOT INCLUDE APRON LENGTHS. SEE TABULATIONS ON SHEET C.08 (STORM SEWER PIPE).
20	2416-1202224	CULV,3000D LOW CLR ROADWAY PIPE, EQ DIA 24"
		BID QUANTITY LENGTH DOES NOT INCLUDE APRON LENGTHS. SEE TABULATIONS ON SHEET C.08 (STORM SEWER PIPE).
21	2416-1240024	CULV, 3000D CONC ROADWAY PIPE, 24"
		BID QUANTITY LENGTH DOES NOT INCLUDE APRON LENGTHS. SEE TABULATIONS ON SHEET C.08 (STORM SEWER PIPE).
22	2435-0130148	MANHOLE, SAN SEWER, SW-301, 48"
		REFER TO 'MSA' SHEET FOR SANITARY SEWER MANHOLE LOCATIONS AND ELEVATIONS. MANHOLE SHALL INCLUDE INTEGRAL BASE SECTION WITH CONCENTRIC PRECAST TOP. IN LIEU OF JOINT SEALANT, ALL JOINTS SHALL BE RUBBER GASKETED TONGUE AND GROOVE. ALL PIPE OPENINGS SHALL HAVE INTEGRAL CAST WATER TIGHT SEAL. MANHOLE CASTING SHALL BE SW-601, TYPE 'B' CASTING AND READ "SANITARY SEWER," FURNISHED AND INSTALLED AS PART OF THIS PAY ITEM. PROVIDE I&I BARRIER CHIMNEY SEAL BY STRIKE PRODUCTS OR APPROVED EQUAL, FURNISHED AND INSTALLED AS PART OF THIS PAY ITEM. ANY ADJUSTING RINGS SHALL BE CONCRETE. SEE TABULATION ON SHEET C0.12.
23	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60"
		REFER TO 'M' SHEETS FOR STORM SEWER MANHOLE LOCATIONS AND ELEVATIONS. MANHOLE CASTING SHALL BE SW-602, TYPE 'F' CASTING AND READ "STORM SEWER" FURNISH AND INSTALLED AS PART OF THIS PAY ITEM. ANY ADJUSTING RINGS SHALL BE CONCRETE. SEE TABULATION ON SHEET C.08.

ESTIMATE REFERENCE INFORMATION

This Data Entry Sheet fills Tab 100-4A effective 10-29-02

Item No.	Item Code	Description
24	2435-0140184	MANHOLE, STORM SEWER, SW-401, 84"
		REFER TO 'M' SHEETS FOR STORM SEWER MANHOLE LOCATIONS AND ELEVATIONS. MANHOLE CASTING SHALL BE SW-602, TYPE 'F' CASTING AND READ "STORM SEWER" FURNISH AND INSTALLED AS PART OF THIS PAY ITEM. ANY ADJUSTING RINGS SHALL BE CONCRETE. SEE TABULATION ON SHEET C.08.
25	2435-0250500	INTAKE, SW-505
		REFER TO 'M' SHEETS FOR STORM SEWER INTAKE LOCATIONS AND ELEVATIONS. MANHOLE CASTING SHALL BE SW-603, TYPE 'R' CASTINGS, FURNISH AND INSTALLED AS PART OF THIS PAY ITEM. ANY ADJUSTING RINGS SHALL BE CONCRETE. SEE TABULATION ON SHEET C.08.
26	2435-0600010	MANHOLE ADJUSTMENT, MINOR
		THIS IS FULL COMPENSATION FOR MATERIALS, LABOR AND EQUIPMENT TO ADJUST THE SANITARY MANHOLE CASTING AT THE INTERSECTION OF RAY STREET AND E. RICHLAND STREET. MANHOLE CASTING SHALL BE SW-601, TYPE 'B' CASTING AND READ "SANITARY SEWER" FURNISH AND INSTALLED AS PART OF THIS PAY ITEM. PROVIDE I&I BARRIER CHIMNEY SEAL BY STRIKE PRODUCTS OR APPROVED EQUAL, FURNISHED AND INSTALLED AS PART OF THIS PAY ITEM. SEE 'MSA' SHEET AND TABULATION ON SHEET C.09 ' ADJUSTMENT OF FIXTURES'.
27	2435-0700010	CONNECTION TO EXIST MANHOLE
		REFER TO SHEET M.04 FOR LOCATIONS AND ELEVATIONS OF EXISTING STORM MANHOLES 1 AND 2 SHOWING STORM SEWER PIPE CONNECTIONS. THIS ITEM IS FULL COMPENSATION FOR ALL THAT WORK NECESSARY FOR A WATER TIGHT CONNECTION OF THE NEW STORM SEWER PIPES TO EXISTING MANHOLE.
28	2502-8212206	SUBDRAIN, PERFORATED PLASTIC PIPE, 6"
		PIPE MATERIAL SHALL BE 6" PERFORATED HDPE, SDR 35 PVC, OR SCHEDULE 40 PVC. POROUS BACKFILL SHALL MEET IOWA DOT GRADATION NUMBER 5. ANY CAPS CALLED OUT SHALL BE GLUE ON TYPE AND BE CONSIDERED INCIDENTAL TO THIS ITEM. SEE TABULATION ON SHEET C.09.
29	2502-8221006	SUBDRAIN RISER, 6"
		METHOD OF MEASUREMENT SHALL BE EACH SUBDRAIN CLEANOUT COMPLETED AS PER DETAIL WILL BE COUNTED. THIS WILL BE FULL COMPENSATION FOR ALL EQUIPMENT, LABOR, PIPE, BENDS, CASTING WITH CONCRETE COLLAR AND POROUS BACKFILL FOR THE SUBDRAIN CLEANOUT FROM END OF RUN AS DETAILED ON SHEET B.01. POROUS BACKFILL SHALL MEET IOWA DOT GRADATION NUMBER 5. SEE TABULATION ON SHEET C.09.
30	2502-8221303	SUBDRAIN OUTLET, DR-303
		THIS ITEM IS FOR THE SUBDRAIN CONNECTIONS TO INTAKES 1, 2, 3, 4, AND EXISTING STORM MANHOLE, REFER TO SHEET M.06 AND M.07. THIS ITEM IS FULL COMPENSATION FOR ALL THAT WORK NECESSARY FOR A WATER TIGHT CONNECTION OF THE SUBDRAIN CONNECTIONS TO INTAKES. SEE DR-303, INTAKE OUTLET DETAIL. PIPE MATERIAL SHALL BE 6" SOLID WALL PVC. SEE TABULATION ON SHEET C.09.
31	2503-0110018	STORM SEWER GRAVITY MAIN, TRENCHED, 18"
		JOINTS SHALL MEET THE REQUIREMENTS OF ASTM C-443 GASKETS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT SW-102, CLASS R-2. BEDDING MATERIAL SHALL BE CLASS I. SEE TABULATION ON SHEET C.08.
32	2503-0110024	STORM SEWER GRAVITY MAIN, TRENCHED, 24"
		BID QUANTITY LENGTH DOES NOT INCLUDE APRON LENGTHS. JOINTS SHALL MEET THE REQUIREMENTS OF ASTM C-443 GASKETS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT SW-102, CLASS R-2. BEDDING MATERIAL SHALL BE CLASS I. SEE TABULATION ON SHEET C.08.
33	2503-0110030	STORM SEWER GRAVITY MAIN, TRENCHED, 30"
		JOINTS SHALL MEET THE REQUIREMENTS OF ASTM C-443 GASKETS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT SW-102, CLASS R-2. BEDDING MATERIAL SHALL BE CLASS I. SEE TABULATION ON SHEET C.08.
34	2503-0110036	STORM SEWER GRAVITY MAIN, TRENCHED, 36"
		JOINTS SHALL MEET THE REQUIREMENTS OF ASTM C-443 GASKETS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT SW-102, CLASS R-2. BEDDING MATERIAL SHALL BE CLASS I. SEE TABULATION ON SHEET C.08.
35	2503-0110042	STORM SEWER GRAVITY MAIN, TRENCHED, 42"
		BID QUANTITY LENGTH DOES NOT INCLUDE APRON LENGTHS. JOINTS SHALL MEET THE REQUIREMENTS OF ASTM C-443 GASKETS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT SW-102, CLASS R-2. BEDDING MATERIAL SHALL BE CLASS I. SEE TABULATION ON SHEET C.08.
36	2503-0200036	REMOVE STORM SEWER PIPE LESS 36"
		REFER TO 'R' SHEETS FOR LOCATIONS OF STORM SEWER REMOVAL LOCATIONS. ANY PIPES TO REMAIN IN PLACE AT THE EXTENTS OF THE PROJECT AND NOT CONNECTED TO THE STORM SEWER SYSTEM SHALL HAVE A CONCRETE PLUG. SEE TABULATION ON SHEET C.10.
37	2504-0114008	SAN SEWER GRAVITY MAIN, TRENCHED, PVC, 8"
		REFER TO 'MSA' SHEETS FOR LOCATIONS AND ELEVATIONS OF SANITARY SEWER. CONNECTIONS TO EXISTING SHALL BE MADE USING NO SHEAR RUBBER BOOT CONNECTORS WITH STAINLESS STEEL SHEAR BANDS AND STRAPS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT STANDARD PLATE SW-103, CLASS F-3. BEDDING MATERIAL TO BE CLASS I. SEE TABULATION ON SHEET C.12.
38	2504-0114024	SAN SEWER GRAVITY MAIN, TRENCHED, PVC, 24"
		REFER TO 'MSA' SHEETS FOR LOCATIONS AND ELEVATIONS OF SANITARY SEWER. CONNECTIONS TO EXISTING SHALL BE MADE USING NO SHEAR RUBBER BOOT CONNECTORS WITH STAINLESS STEEL SHEAR BANDS AND STRAPS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT STANDARD PLATE SW-103, CLASS F-3. BEDDING MATERIAL TO BE CLASS I. SEE TABULATION ON SHEET C.12.
39	2504-0200406	SAN SEWER SERVICE STUB, PVC, 6"
		REFER TO 'MSA' SHEETS FOR LOCATIONS AND ELEVATIONS OF SANITARY SEWER 6" SERVICES. CONNECTIONS TO EXISTING SHALL BE MADE USING NO SHEAR RUBBER BOOT CONNECTORS WITH STAINLESS STEEL SHEAR BANDS AND STRAPS. PIPE BEDDING SHALL CONFORM WITH IOWA DOT STANDARD PLATE SW-103, CLASS F-3. BEDDING MATERIAL TO BE CLASS I. SEE TABULATION ON SHEET C.12.
40	2504-0240036	REMOVE SAN SEWER PIPE LESS 36"
		SEE TABULATION ON SHEET C.10.
41	2507-3250005	ENGINEERING FABRIC
		THIS IS FOR PLACEMENT UNDER THE CLASS 'E' REVETMENT
42	2507-6800061	REVETMENT, CLASS E
		REFER TO SHEET RC.05 FOR LOCATION OF THIS ITEM AT THE OUTLET OF 42" STORM SEWER. EXCAVATE FOR PLACEMENT 18" IN DEPTH AND WASTE MATERIAL, PLACE ENGINEERING FABRIC BEFORE REVEMENT AND THIS SHALL BE FULL COMPENSATION FOR PAYMENT UNDER THIS ITEM. PLACE CLASS 'E' REVETMENT MEETING THE REQUIREMENTS OF IOWA DOT SECTION 4130, REVETMENT GRADATION CLASS 'E'.

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ESTIMATE REFERENCE INFORMATION

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Item No.	Item Code	Description
43	2510-6745850	REMOVAL OF PAVEMENT
		EXISTING PAVEMENT THICKNESS VARIES BETWEEN 6 AND 9 INCHES OF PCC PAVEMENT. ALL REMOVALS TO BE MARKED AND MEASURED BY ENGINEER. FULL DEPTH SAWCUTS ALONG THE REMOVAL LIMITS ARE INCIDENTAL TO THIS ITEM. ADDITIONAL REMOVAL DUE TO DAMAGE FROM CONSTRUCTION TO BE DETERMINED BY ENGINEER. PAYMENT SHALL BE MADE FOR THE AREA OF PAVEMENT REMOVED REGARDLESS OF ACTUAL THICKNESS. CONTRACTOR HAS THE OPTION TO HAUL PAVEMENT MATERIAL TO EXCESS MATERIAL SITE AS A TEMPORARY CRUSHING LOCATION. IF NOT CRUSHING, THEN MATERIAL SHOULD BE HAULED TO A DISPOSAL SITE OBTAINED BY THE CONTRACTOR. REFER TO 'R' SHEETS FOR REMOVAL LOCATIONS AND TABULATION ON SHEET C.10.
44	2515-2475008	DRIVEWAY, PCC, 8"
		REFER TO 'D' SHEETS FOR DRIVEWAY LOCATIONS. CERTIFIED PLANT INSPECTION WILL BE REQUIRED DURING ALL PAVING OPERATIONS. GGBFS (SLAG) IS NOT PERMITTED FOR ANY WORK ON THIS PROJECT. PCC COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 4,000 PSI AT 28 DAYS. SEE TABULATION ON SHEET C.12.
45	2515-6745600	REMOVAL OF PAVED DRIVEWAY
		ALL REMOVALS TO MARKED AND MEASURED BY ENGINEER. ADDITIONAL REMOVAL TO BE DETERMINED BY ENGINEER. PAYMENT SHALL BE MADE FOR THE AREA OF PAVEMENT REMOVED. PAVEMENT THICKNESS ASSUMED TO BE 6 INCHES. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL MATERIALS AT AN OFFSITE WASTE AREA. REFER TO 'R' SHEETS FOR REMOVAL LOCATIONS AND TABULATION ON SHEET C.10.
46	2524-6765010	REMOVE AND REINSTALL SIGN
		CONTRACTOR SHALL REMOVE, SALVAGE, AND REINSTALL EXISTING SIGNS. SIGNS AND MATERIALS SHALL BE DELIVERED, STORED, AND RETRIEVED FROM THE CITY OF STORM LAKE STREET DEPARTMENT LOCATED AT 433 VILAS ROAD, STORM LAKE. MEASUREMENT WILL BE MADE FOR EACH SIGN SALVAGED AND REINSTALLED. PAYMENT WILL BE MADE UPON REINSTALLATION. SEE TABULATION ON SHEET C.11.
47	2528-2518000	SAFETY CLOSURE
		SEE "J" SHEETS FOR LOCATIONS. SEE TABULATION ON SHEET J.03.
48	2528-8445110	TRAFFIC CONTROL
		REFER TO 'J' SHEETS FOR DETOUR, TRAFFIC CONTROL AND STAGING. ALL TRAFFIC CONTROL DEVICES SHALL MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130. ANY TRAFFIC CONTROL SIGN TO REMAIN IN PLACE LONGER THAN 3 CALENDAR DAYS SHALL BE POST MOUNTED WITH AN IOWA DOT APPROVED SIGN POST. CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING, MAINTAINING, AND REMOVING THE DETOUR AS MARKED OUT IN THIS PLAN AND SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.
49	2528-8445113	FLAGGER
		REFER TO 'J' SHEETS FOR DETOUR, TRAFFIC CONTROL AND STAGING.
50	2529-5070110	PATCH, FULL-DEPTH FINISH, BY AREA
		EXISTING PAVEMENT IS PCC AND ESTIMATED THICKNESS IS BETWEEN 7 TO 9 INCHES. REFER TO 'D' SHEETS FOR LOCATIONS, 'J' SHEETS FOR TRAFFIC CONTROL AND TABULATION SHEET C.07.
51	2529-5070111	PATCH,FULL-DEPTH FINISH,BY AREA(=>50 FT)
		EXISTING PAVEMENT IS PCC AND ESTIMATED THICKNESS IS BETWEEN 7 TO 9 INCHES. REFER TO 'D' SHEETS FOR LOCATIONS, 'J' SHEETS FOR TRAFFIC CONTROL AND TABULATION SHEET C.07.
52	2529-5070120	PATCH, FULL-DEPTH FINISH, BY COUNT
		REFER TO 'D' SHEETS FOR LOCATIONS, 'J' SHEETS FOR TRAFFIC CONTROL AND TABULATION SHEET C.07.
53	2529-8202000	RUMBLE STRIP PANEL (IN FULL DEPTH PATCH)
		REFER TO SHEET D.03 FOR LOCATION.
54	2530-5070210	PATCH, PARTIAL-DEPTH PCC FINISH
		REFER TO 'D' SHEETS FOR LOCATIONS, 'J' SHEETS FOR TRAFFIC CONTROL AND TABULATION SHEET C.07.
55	2530-5070240	PARTIAL DEPTH PCC JNT AND CRACK REPAIR PATCH
		REFER TO 'D' SHEETS FOR LOCATIONS, 'J' SHEETS FOR TRAFFIC CONTROL AND TABULATION SHEET C.07.
56	2533-4980005	MOBILIZATION
		THIS ITEM SHALL ALSO INCLUDE THE COSTS FOR ANY STAGED CONSTRUCTION, AND EQUIPMENT SET UP AND STOCKPILE/DISPOSAL SITE PREPARATION AND CLEANUP TO COMPLETE WORK. NO CHANGE IN THE CONTRACT PRICE WILL BE MADE FOR ANY CHANGE IN STAGING OR COMBINATION THEREOF.
57	2537-8900000	REMEDIATION OF PETRO CONTAMINATED SOIL
		THE LOCATION IS ASSUMED TO BE ON E. RICHLAND STREET BETWEEN STA. 0+50 AND STA. 7+00. THIS SHALL BE FULL COMPENSATION FOR REMOVAL, TRANSPORT AND COVERING OF CONTAMINATED MATERIAL AT A TEMPORARY STOCKPILE SITE, REPRESENTATIVE TESTING OF THE MATERIAL, AND TRANSPORTING APPROVED MATERIAL TO A SOLID WASTE LANDFILL SITE (CARROLL COUNTY SOLID WASTE MANAGEMENT, CARROLL, IA) OR TO TRANSPORT, SPREAD, AND TURN CONTAMINATED SOIL AT REMEDIATION AREAS OBTAINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. REFER TO IOWA DOT SECTION 2537.
58	2537-8900100	SAMPLE AND TEST-PETRO CONTAMINATED (REMEDIATION)
		THE LOCATION IS ASSUMED TO BE ON E. RICHLAND STREET BETWEEN STA. 0+50 AND STA. 7+00. SAMPLING AND ENVIRONMENTAL SITE WORK SHALL BE SUPERVISED BY A GROUNDWATER PROFESSIONAL CERTIFIED BY THE IOWA DNR IN ACCORDANCE WITH 567 IAC, 134 AND ANAYLSIS OF SAMPLES IS PERFORMED BY A LABORATORY CERTIFIED BY IOWA DNR PURSANT TO 567 IAC, 83. TEST RESULTS SHALL BE PROVIDED TO THE SOLID WASTE MANAGEMENT FACILITY AND THE ENGINEER FOR APPROVAL OF THE MATERIAL PRIOR TO DELIVERY IF TAKEN TO A SOLID WASTE FACILITY.
59	2549-0041060	BYPASS PUMPING, SEWAGE
		THIS SHALL BE FULL COMPENSATION FOR MATERIALS, LABOR AND EQUIPMENT REQUIRED TO MAINTAIN SANITARY SEWER BYPASS FLOWS DURING THE REPLACEMENT OF THE EXISTING SANITARY SEWER MAIN AND SERVICES ON EXPANSION BLVD. COORDINATE WITH THE CITY OF STORM LAKE, WASTE WATER DEPARTMENT.

ESTIMATE REFERENCE INFORMATION

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Item No.	Item Code	Description
60	2554-0112006	WATER MAIN, TRENCHED, DIP, 6"
		PIPE BEDDING CLASS SHALL CONFORM WITH IOWA DOT STANDARD PLATE SW-104. CLASS P-1 SUITABLE BACKFILL MATERIAL WITH PIPE ENCASED WITH POLYETHLENE WRAP TUBES. OWNER WILL PROVIDE WATER FOR INITIAL FILL AND FLUSHING. TESTING AND DISINFECTION TO BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH AWWA C651. TRACER WIRE SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. TRACER WIRE SHALL BE #14 COPPER CLAD STEEL WIRE OR #12 AWG SOLID COPPER WITH 30-MIL HDPE INSULATING JACKET TAPED TO THE MAIN EVERY 20 FEET. TRACER WIRE GROUND RODS SHALL CONSIST OF A ONE (1) LB MAGNESIUM ALLOY ANODE ROD WITH MINIMUM DIMENSIONS OF 1.3" IN DIAMETER AND 18" IN LENGTH. THE ANODE ROD SHALL COME PREASSEMBLED WITH A PE CAP AND 10 FT OF TRACER WIRE ATTACHED. TRACER WIRE STATIONS SHALL BE TWO TERMINAL BOXES AS MFG. BY COPPERHEAD INDUSTRIES, VALVCO, OR APPROVED EQUAL. CONTRACTOR WILL BE CHARGED FOR WATER FLUSHING AFTER THE FIRST FAILED TEST. OWNER WILL TEST THE TRACER WIRE SYSTEM PRIOR TO FINAL ACCEPTANCE. . SEE TABULATION ON SHEET C.12.
61	2554-0112008	WATER MAIN, TRENCHED, DIP, 8"
		PIPE BEDDING CLASS SHALL CONFORM WITH IOWA DOT STANDARD PLATE SW-104. CLASS P-1 SUITABLE BACKFILL MATERIAL WITH PIPE ENCASED WITH POLYETHLENE WRAP TUBES. OWNER WILL PROVIDE WATER FOR INITIAL FILL AND FLUSHING. TESTING AND DISINFECTION TO BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH AWWA C651. TRACER WIRE SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. TRACER WIRE SHALL BE #14 COPPER CLAD STEEL WIRE OR #12 AWG SOLID COPPER WITH 30-MIL HDPE INSULATING JACKET TAPED TO THE MAIN EVERY 20 FEET. TRACER WIRE GROUND RODS SHALL CONSIST OF A ONE (1) LB MAGNESIUM ALLOY ANODE ROD WITH MINIMUM DIMENSIONS OF 1.3" IN DIAMETER AND 18" IN LENGTH. THE ANODE ROD SHALL COME PREASSEMBLED WITH A PE CAP AND 10 FT OF TRACER WIRE ATTACHED. TRACER WIRE STATIONS SHALL BE TWO TERMINAL BOXES AS MFG. BY COPPERHEAD INDUSTRIES, VALVCO, OR APPROVED EQUAL. CONTRACTOR WILL BE CHARGED FOR WATER FLUSHING AFTER THE FIRST FAILED TEST. OWNER WILL TEST THE TRACER WIRE SYSTEM PRIOR TO FINAL ACCEPTANCE. . SEE TABULATION ON SHEET C.12.
62	2554-0112012	WATER MAIN, TRENCHED, DIP, 12"
		PIPE BEDDING CLASS SHALL CONFORM WITH IOWA DOT STANDARD PLATE SW-104. CLASS P-1 SUITABLE BACKFILL MATERIAL WITH PIPE ENCASED WITH POLYETHLENE WRAP TUBES. OWNER WILL PROVIDE WATER FOR INITIAL FILL AND FLUSHING. TESTING AND DISINFECTION TO BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH AWWA C651. TRACER WIRE SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. TRACER WIRE SHALL BE #14 COPPER CLAD STEEL WIRE OR #12 AWG SOLID COPPER WITH 30-MIL HDPE INSULATING JACKET TAPED TO THE MAIN EVERY 20 FEET. TRACER WIRE GROUND RODS SHALL CONSIST OF A ONE (1) LB MAGNESIUM ALLOY ANODE ROD WITH MINIMUM DIMENSIONS OF 1.3" IN DIAMETER AND 18" IN LENGTH. THE ANODE ROD SHALL COME PREASSEMBLED WITH A PE CAP AND 10 FT OF TRACER WIRE ATTACHED. TRACER WIRE STATIONS SHALL BE TWO TERMINAL BOXES AS MFG. BY COPPERHEAD INDUSTRIES, VALVCO, OR APPROVED EQUAL. CONTRACTOR WILL BE CHARGED FOR WATER FLUSHING AFTER THE FIRST FAILED TEST. OWNER WILL TEST THE TRACER WIRE SYSTEM PRIOR TO FINAL ACCEPTANCE. . SEE TABULATION ON SHEET C.12.
63	2554-0203000	FITTINGS BY WEIGHT, DI
		ALL FITTINGS SHALL BE DUCTILE IRON, MECHANICAL JOINT, RESTRAINED JOINT WITH MEGALUG OR APPROVED EQUAL. NUTS AND BOLTS TO BE FLUOROCARBON COATED WITH 1-2.5 MIL THICKNESS. WEIGHTS ARE PER AWWA C-153. POLYETHYLENE WRAP AND BEDDING MATERIAL IS CONSIDERED INCIDENTAL TO THIS ITEM. ALL JOINTS TO HAVE A MINIMUM OF (2) 6 OZ. SACRIFICIAL ZINC ANODE CAPS PER GLAND INSTALLED. ANY NECESSARY THRUST BLOCKS SHALL BE INCIDENTAL TO THIS ITEM. SEE TABULATION ON SHEET C.12.
64	2554-0204120	WATER SERVICE STUB, COPPER, 2"
		REFER TO MWM SHEETS FOR LOCATIONS, ELEVATIONS AND CONSTRUCTION NOTES. PIPE MATERIAL SHALL BE TYPE 'K' COPPER. SEE TABULATION ON SHEET C.12. ALL WATER SERVICES SCHEDULED FOR REPLACEMENT SHALL BE PROVIDED WITH A WATER SERVICE PIPE FROM THE NEW CORPORATION STOP AT THE NEW MAIN TO THE NEW CURB STOP LOCATION AT THE PROPERTY LINE AND THEN TO THE EXISTING SERVICE PIPE. REMOVAL OF EXISTING SERVICE LINE AND CURB STOP SHALL BE INCIDENTAL TO THIS ITEM. CONTRACTOR TO VERIFY SERVICE LOCATIONS AND CONNECTIONS WITH THE CITY. FURNISHING AND PLACEMENT OF ELBOWS, BENDS, TEES, BEDDING AND BACKFILL MATERIALS SHALL BE DEEMED INCIDENTAL TO THIS ITEM. NO COUPLINGS WILL BE ALLOWED ON SERVICE PIPE BETWEEN MAIN AND CURB STOP. ALL FITTINGS FOR THE SERVICE SHALL BE COMPRESSION STYLE.
65	2554-0205720	WATER SERVICE CURB STOP & BOX, COPPER, 2"
		CORPORATION STOP SHALL BE INCLUDED WITH THIS ITEM. TAPPING SADDLE SHALL BE DUCTILE IRON BODY WITH 304L STAINLESS STEEL STRAPS AND 4 STAINLESS STEEL BOLTS. CURB STOP AND CORPORATION STOP SHALL BE BALL VALVE STYLE WITH CTS COMPRESSION FITTINGS, AS MFG. BY A.Y. MCDONALD, FORD METER COMPANY, OR APPROVED EQUAL. CURB BOX SHALL BE MINNEAPOLIS PATTERN WITH 1-1/4" UPPER SECTION AND LID WITH PENTAGON PLUG AS MFG. BY A.Y. MCDONALD, FORD METER COMPANY OR APPROVED EQUAL. SEE TABULATION ON SHEET C.12.
66	2554-0207006	VALVE, GATE, DIP, 6"
		VALVES SHALL BE RESILIENT WEDGE, NON-RISING STEM, IRON BODY, 2" SQUARE OPENING NUT, OPEN LEFT, MECHANICAL JOINTS AND 200 PSI WORKING PRESSURE. VALVE BOXES SHALL BE HEAVY DUTY (THICK CAST) MARKED "WATER" ON VALVE BOX COVER. VALVES SHALL BE MUELLER RESILIENT WEDGE GATE VALVES WITH STAINLESS STEEL BOLTS, OR APPROVED EQUAL. SEE TABULATION ON SHEET C.12.
67	2554-0207012	VALVE, GATE, DIP, 12"
		VALVES SHALL BE RESILIENT WEDGE, NON-RISING STEM, IRON BODY, 2" SQUARE OPENING NUT, OPEN LEFT, MECHANICAL JOINTS AND 200 PSI WORKING PRESSURE. VALVE BOXES SHALL BE HEAVY DUTY (THICK CAST) MARKED "WATER" ON VALVE BOX COVER. VALVES SHALL BE MUELLER RESILIENT WEDGE GATE VALVES WITH STAINLESS STEEL BOLTS, OR APPROVED EQUAL. SEE TABULATION ON SHEET C.12.
68	2554-0208006	TAPPING VALVE ASSEMBLY, 6"
		VALVES SHALL BE RESILIENT WEDGE, NON-RISING STEM, IRON BODY, 2" SQUARE OPENING NUT, OPEN LEFT, MECHANICAL JOINTS AND 200 PSI WORKING PRESSURE. VALVE BOXES SHALL BE HEAVY DUTY (THICK CAST) MARKED "WATER" ON VALVE BOX COVER. VALVES SHALL BE MUELLER RESILIENT WEDGE GATE VALVES WITH STAINLESS STEEL BOLTS, OR APPROVED EQUAL. SEE TABULATION ON SHEET C.12.
69	2554-0208012	TAPPING VALVE ASSEMBLY, 12"
		VALVES SHALL BE RESILIENT WEDGE, NON-RISING STEM, IRON BODY, 2" SQUARE OPENING NUT, OPEN LEFT, MECHANICAL JOINTS AND 200 PSI WORKING PRESSURE. VALVE BOXES SHALL BE HEAVY DUTY (THICK CAST) MARKED "WATER" ON VALVE BOX COVER. VALVES SHALL BE MUELLER RESILIENT WEDGE GATE VALVES WITH STAINLESS STEEL BOLTS, OR APPROVED EQUAL. SEE TABULATION ON SHEET C.12.
70	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201
		ALL FITTINGS, JOINTS, GATE VALVES, AND 6" DI PIPE NECESSARY TO INSTALL HYDRANT SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. HYDRANTS SHALL BE MUELLER SUPER CENTURION 250 3-WAY HYDRANTS MODEL A-423. VALVES SHALL BE MUELLER RESILIENT WEDGE GATE VALVES WITH STAINLESS STEEL BOLTS, OR APPROVED EQUAL. HYDRANTS SHALL BE PAINTED ALL YELLOW. SEE TABULATION ON SHEET C.12.

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Item No.	Item Code	Description
71	2554-0211006	FLUSHING DEVICE, TEMPORARY, (BLOWOFF), 6"
		THIS SHALL BE FULL COMPENSATION FOR INSTALLATION AND REMOVAL OF THIS ITEM FOR WATER MAIN TESTING. REMOVAL SHALL BE ONLY WHEN WATER MAIN SEGMENT UNDER TESTING HAS PASSED ALL QUALITY ASSURANCE.
72	2554-0214000	FIRE HYDRANT ADJUSTMENT
		REFER TO 'MWM' SHEETS FOR LOCATIONS AND TABULATION ON SHEET C.09 AND C.12 FOR THE EXISTING FIRE HYDRANT ADJUSTMENTS. THIS SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO MAKE FINISH ELEVATION ADJUSTMENTS.
73	2555-0000010	DELIVER AND STOCKPILE SALVAGED MATERIAL
		ITEM INCLUDES DELIVERY AND STOCKPILE OF ALL SALVAGED SIGNS TO THE CITY OF STORM LAKE STREET DEPARTMENT AND STOCKPILE OF ALL SALVAGED HYDRANTS TO THE CITY OF STORM LAKE WATER DEPARTMENT. MEASUREMENT AND PAYMENT WILL BE LUMP SUM. PAYMENT WILL BE MADE AS A PERCENTAGE OF EACH SIGN OR HYDRANT STOCKPILED. SEE TABULATION ON SHEET C.11.
74	2599-9999005	CONNECT TO EXISTING SANITARY SEWER
		CONNECTIONS TO EXISTING PIPE TO BE ACCOMPLISHED WITH COUPLER COMPLYING TO CCSA B602, ASTM D5926, AND ASTM C1173. CONNECTIONS TO EXISTING SHALL BE MADE USING NO SHEAR RUBBER BOOT CONNECTORS WITH STAINLESS STEEL SHEAR BANDS AND STRAPS. ITEM SHALL BE FOR BOTH THE CONNECTION TO EXISTING SERVICE AND CONNECTION TO EXISTING MAIN COMBINED. ENGINEER SHALL COUNT EACH CONNECTION TO EXISTING SERVICE AND CONNECTION TO EXISTING MAIN PAIRS AND ITEM SHALL BE PAID AT THE CONTRACT UNIT PRICE PER EACH CONNECTION.
75	2599-9999005	CONNECT TO EXISTING STORM SEWER
		METHOD OF MEASUREMENT SHALL BE EACH CONNECTION AS COMPLETED AND PAID AT THE CONTRACT UNIT PRICE. ITEM SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY TO CONSTRUCT A CONCRETE COLLAR TO CONNECT NEW AND EXISTING STORM SEWER PIPES ACCORDING TO THE DETAIL ON SHEET NO. B.03, NEW STORM SEWER TO EXISTING STORM STRUCTURES OR NEW STORM SEWER STRUCTURES TO EXISTING STORM SEWER PIPES AND SUBDRAINS TO EXISTING STORM SEWER STRUCTURES. ANY EXISTING PIPE REMOVED AND REPLACED FOR THE INSTALLATION OF A STORM SEWER STRUCTURE SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. SEE SHEET NUMBERS M.02, M.04, M.06 AND M.07, LOCATIONS AS NOTED.
76	2599-9999005	CONNECT TO EXISTING WATER MAIN
		METHOD OF MEASUREMENT SHALL BE EACH CONNECTION AS COMPLETED AND PAID AT THE CONTRACT UNIT PRICE. ITEM SHALL INCLUDE ALL LABOR AND PARTS NECESSARY TO CONNECT PROPOSED WATERMAIN TO THE EXISTING WATERMAIN. MAXIMUM SHUT DOWN LENGTH FOR THE CONNECTION SHALL BE NO MORE THAN 2 HOURS AS DIRECTED BY THE IOWA DNR. NO RESIDENT MAY BE SHUT DOWN MORE THAN 1 TIME IN A 24 HOUR PERIOD. ENGINEER SHALL COUNT EACH CONNECTION AND ITEM SHALL BE PAID AT THE CONTRACT UNIT PRICE PER EACH CONNECTION. SEE TABULATION ON SHEET C.12.
77	2599-9999005	MANHOLE, WATER MAIN AIR RELEASE
		METHOD OF MEASUREMENT SHALL BE EACH WATER MAIN MANHOLE W/AIR RELEASE COMPLETED AS PER DETAIL WILL BE COUNTED. THIS WILL BE FULL COMPENSATION FOR ALL EQUIPMENT, LABOR, MANHOLE, PIPE, BENDS, AIR RELEASE VALVE, VALVE SUPPORT AND CONNECTIONS, CASTING, ADJUSTING RINGS, BEDDING MATERIAL AS DETAILED. SEE WATER MAIN MANHOLE W/AIR RELEASE VALVE DETAIL ON SHEET B.03.
78	2599-9999005	SALVAGE FIRE HYDRANT
		METHOD OF MEASUREMENT SHALL BE EACH SALVAGED EXISTING FIRE HYDRANT IN WORKING CONDITION RETURNED TO CITY OF STORM LAKE WATER DEPARTMENT. PAYMENT SHALL BE PER EACH HYDRANT DELIVERED TO THE CITY. SEE TABULATION ON SHEET C.10.
79	2599-9999005	TILE REPAIR <12"
		DRAIN TILE ENCOUNTERED ON THIS PROJECT, MARKED OR OTHERWISE, SHALL BE PROTECTED IN PLACE IF POSSIBLE OR REPAIRED. SIZE AND TYPE OF PIPE SHALL BE VERIFIED IN THE FIELD. PAYMENT SHALL BE MADE PER EACH PIPE REPAIR UP TO 12" IN NOMINAL DIAMETER. CONNECTIONS TO EXISTING SHALL BE MADE USING NO SHEAR RUBBER BOOT CONNECTORS WITH STAINLESS STEEL SHEAR BANDS AND STRAPS. ENGINEER SHALL MEASURE EACH REPAIR AND ITEM SHALL BE PAID AT THE CONTRACT UNIT PRICE PER EACH COMPLETED REPAIR.
80	2599-9999005	TILE REPAIR 12"-24"
		DRAIN TILE ENCOUNTERED ON THIS PROJECT, MARKED OR OTHERWISE, SHALL BE PROTECTED IN PLACE IF POSSIBLE OR REPAIRED. SIZE AND TYPE OF PIPE SHALL BE VERIFIED IN THE FIELD. PAYMENT SHALL BE MADE PER EACH PIPE REPAIR BETWEEN 12" AND UP TO 24" IN NOMINAL DIAMETER. CONNECTIONS TO EXISTING SHALL BE MADE USING NO SHEAR RUBBER BOOT CONNECTORS WITH STAINLESS STEEL SHEAR BANDS AND STRAPS. ENGINEER SHALL MEASURE EACH REPAIR AND ITEM SHALL BE PAID AT THE CONTRACT UNIT PRICE PER EACH COMPLETED REPAIR.
81	2599-9999007	EXPLORATORY EXCAVATION, GENERAL
		THIS ITEM IS FOR THE INVESTIGATION OF LOCATIONS AND ELEVATIONS OF AN EXISTING UTILITY TO VERIFY THE POTENTIAL FOR CONFLICTS. THE ENGINEER OR THEIR REPRESENTATIVE MUST VERIFY THE CONDITIONS FOUND. QUANTITY IS ESTIMATED TO ESTABLISH UNIT PRICE. NO PAYMENT WILL BE MADE FOR EXPLORATORY EXCAVATION UNLESS SPECIFICALLY DIRECTED AND AGREED TO BY THE ENGINEER. EXPLORATORY EXCAVATION WILL NOT BE PAID FOR EXCAVATION REQUIRED TO LOCATE AND CONNECT TO EXISTING PIPES UNLESS THE ENGINEER AGREES THAT EXCAVATION BEYOND WHAT COULD BE CONSIDERED REASONABLE IS REQUIRED. WHERE EXPLORATORY EXCAVATION IS PERFORMED IN A LOCATION THAT WILL NOT BE DISTURBED LATER, BACKFILL SHALL BE PLACED AND COMPACTED TO THE DENSITY SPECIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS FOR THE TYPE OF UTILITY LOCATED. ENGINEER SHALL COUNT EACH HOUR OF EXCAVATION ONLY AND ITEM SHALL BE PAID AT THE CONTRACT UNIT PRICE PER HOUR. TIME FOR EXCAVATION IS PAID, TIME FOR BACKFILL OPERATIONS IS INCIDENTAL TO ITEM.
82	2599-9999007	EXPLORATORY EXCAVATION, VAC TRUCK
		THIS ITEM IS FOR THE INVESTIGATION OF LOCATIONS AND ELEVATIONS OF AN EXISTING UTILITY TO VERIFY THE POTENTIAL FOR CONFLICTS. THE ENGINEER OR THEIR REPRESENTATIVE MUST VERIFY THE CONDITIONS FOUND. QUANTITY IS ESTIMATED TO ESTABLISH UNIT PRICE. NO PAYMENT WILL BE MADE FOR VACUUM TYPE EQUIPMENT TO PERFORM THE EXCAVATION UNLESS SPECIFICALLY DIRECTED AND AGREED TO BY THE ENGINEER. ENGINEER SHALL COUNT EACH HOUR OF VACUUM TYPE EQUIPMENT TO PERFORM THE EXCAVATION AND ITEM SHALL BE PAID AT THE CONTRACT UNIT PRICE PER HOUR. ALL LOCATIONS SHALL BE BACKFILLED WITH MATERIAL IF THEY WILL NOT BE DISTURBED BY OTHER OPERATIONS.
83	2599-9999009	WATER MAIN REMOVAL OR ABANDONMENT
		CONTRACTOR SHALL EITHER REMOVE OR ABANDON WATER MAIN IN PLACE AND IS INCIDENTAL TO THE EXCAVATION. IF ABANDONMENT IS CHOSEN CONTRACTOR SHALL INSTALL A MEGALUG CAP AT THE END OF THE EXISTING WATERMAIN PIPE TO PROTECT IT FROM SOIL AND SHALL BE INCLUDED IN THIS ITEM. EXISTING VALVES AND VALVE BOXES MARKED FOR REMOVAL SHALL BE INCIDENTAL TO THIS ITEM. ALL BACKFILL REQUIRED SHALL BE INCLUDED WITH THIS ITEM. ITEM SHALL BE PAID BY THE LINEAR FOOT ABANDONED OR REMOVED AS MEASURED BY THE ENGINEER AND BASIS OF PAYMENT WILL BE BY THE LINEAR FOOT. SEE TABULATION SHEET C.10.

ESTIMATE REFERENCE INFORMATION

This Data Entry Sheet fills Tab 100-4A effective 10-29-02

Item No.	Item Code	Description
84	2599-9999010	TEMPORARY WATER
		CONTRACTOR SHALL MAINTAIN WATER SERVICE TO ALL PROPERTIES IN THE PROJECT AREA. CONTRACTOR MAY TEMPORARILY INTERRUPT WATER SERVICE FOR A MAXIMUM OF 2 HOURS TO ANY PROPERTY WITHIN A 24 HOUR WINDOW. CONTRACTOR SHALL CAREFULLY PLAN SEQUENCE OF WATERMAIN CONSTRUCTION AND SHALL TAKE NECESSARY CONSTRUCTION MEASURES AS REQUIRED TO ADEQUATELY RESTORE AND MAINTAIN SERVICE TO ALL AREAS AFFECTED BY CONSTRUCTION. SUCH PROPOSED MEASURES AND PLAN OF ACTION SHALL BE REVIEWED AND APPROVED BY THE OWNER AND THE ENGINEER PRIOR TO SCHEDULED SERVICE INTERRUPTION. TEMPORARY PIPES, FITTINGS, AND VALVES, INCLUDING DISINFECTION IN ACCORDANCE WITH AWWA C-651 SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. ADEQUATE PRESSURE MUST BE MAINTANINED TO COMMERCIAL PROPERTIES WITH FIRE SUPPRESSION SYSTEMS. THIS IS A LUMP SUM ITEM AND NO MEASUREMENT WILL BE MADE PROPORTIONATE TO THE COMPLETION PERCENTAGE OF WATER RELATED CONSTRUCTION.
85	2599-9999018	POLYSTYRENE INSULATION, 4"
		INSULATION SHALL BE EXTRUDED RIGID BOARD MATERIAL WITH A THERMAL CONDUCTIVITY OF 0.23 BTU/HOUR/SQUARE FOOT/DEGREE FAHRENHEIT/INCH THICKNESS, MAXIMUM AT 40 F MEAN, MINIMUM COMPRESSIVE STRENGTH OF 35 PSI AND WATER ABSORPTION OF 0.25% BY VOLUME MEDIAN. BOARD DIMENSIONS SHALL BE 8' LONG, 2 OR 4' WIDE, AND EITHER 1.5", 2", OR 3" THICK. INSULATION SHALL BE PLACED ON A BED OF SAND AND SAND SHALL BE PLACED ABOVE THE INSULATION TO ISOLATE THE INSULATION FROM ROCKS AND OTHER SHARP OBJECTS. MEASUREMENT WILL BE BY THE SQUARE YARD OF INSULATION INSTALLED. PAYMENT WILL BE AT THE UNIT PRICE PER SQUARE YARD.
86	2601-2636043	SEED AND FERTILIZE (RURAL)
		CONTRACTOR SHALL SEED ALL AREAS THAT WILL NOT BE WORKED FOR MORE THAN 14 CALENDAR DAYS AS DIRECTED BY THE ENGINEER. SEED SHALL COMPLY WITH RURAL TYPE SEED MIX AND RATES.
87	2601-2636044	SEED AND FERTILIZE (URBAN)
		CONTRACTOR SHALL SEED ALL AREAS THAT WILL NOT BE WORKED FOR MORE THAN 14 CALENDAR DAYS AS DIRECTED BY THE ENGINEER. SEED SHALL COMPLY WITH URBAN TYPE SEED MIX AND RATES.
88	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR
		ITEM SHALL BE PLACED OVER ALL AREAS MARKED FOR SEED AND FERTILIZE (URBAN AND RURAL) AFTER SEEDING AND FERTILIZATION HAS BEEN COMPLETED. MECHANICALLY FASTEN PRODUCT ACCORDING TO MANUFACTURE RECOMENDATIONS. MEASUREMENT WILL BE BY THE SQUARE INSTALLED. PAYMENT WILL BE AT THE UNIT PRICE PER SQUARE. SEE TABULATION SHEET C.05.
89	2601-2640350	SPECIAL DITCH CONTROL,WOOD EXCELSIOR MAT
		ITEM SHALL BE PLACED OVER ALL AREAS MARKED FOR SEED AND FERTILIZE (URBAN AND RURAL) AFTER SEEDING AND FERTILIZATION HAS BEEN COMPLETED. MECHANICALLY FASTEN PRODUCT ACCORDING TO MANUFACTURE RECOMENDATIONS. MEASUREMENT WILL BE BY THE SQUARE INSTALLED. PAYMENT WILL BE AT THE UNIT PRICE PER SQUARE. SEE TABULATION SHEET C.05.
90	2602-0000020	SILT FENCE
		REFER TO 'RC' SHEETS FOR LOCATIONS OF SILT FENCE AND TABULATIONS ON SHEET C.05.
91	2602-0000030	SILT FENCE-DITCH CHECKS
		REFER TO 'RC' SHEETS FOR LOCATIONS OF SILT FENCE DITHC CHECKS AND TABULATIONS ON SHEET C.05.
92	2602-0000071	REMOVAL OF SILT FENCE/SILT FENCE-DITCH CHECK
93	2602-0000101	MAINT OF SILT FENCE/SILT FENCE-DITCH CHECK
94	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303
		REFER TO 'RC' SHEETS FOR LOCATIONS OF STABILIZED CONSTRUCTION ENTRANCES.
95	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9"
		REFER TO 'RC' SHEETS FOR LOCATIONS. THIS ITEM WILL BE FULL COMPENSATION FOR INLET PERIMETER PROTECTION ON APRONS AND AREA INTAKES OR OTHER AREAS AS REQUIRED BY ENGINEER. LEAVE IN PLACE AND ALLOW TO DEGRADE, REMOVAL NOT REQUIRED. SEE SHEET C.05 FOR TABULATION.
96	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG
		SW-505 INTAKES SHALL BE PAID PER INTAKE CASTING (2 EACH). SEE TABULATION ON SHEET C.06. MEASUREMENT SHALL BE EACH COUNT OF FILTER BAG INSTALLED AND PAYMENT AT THE CONTRACT UNIT PRICE PER EACH FILTER BAG.
97	2602-0000540	MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG
		SEE TABULATION ON SHEET C.06. MEASUREMENT SHALL BE EACH COUNT OF FILTER BAG FOR MAINTENANCE AND PAYMENT AT THE CONTRACT UNIT PRICE PER EACH FILTER BAG INSTALLED AND ACTIVELY MAINTAINED.
98	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG
		SEE TABULATION ON SHEET C.06. MEASUREMENT SHALL BE EACH COUNT OF FILTER BAG REMOVED AND PAYMENT AT THE CONTRACT UNIT PRICE PER EACH FILTER BAG REMOVED.
99	2602-0010010	MOBILIZATION, EROSION CONTROL

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ROLLED EROSION CONTROL

Refer to EC-101, EC-103, and EC-104.

This Data Entry Sheet fills Tab 100-22 effective 04-21-15

Location				L	W	Number of Squares	Turf Reinforcement Mat (TRM) (EC-104)				Slope Protection (EC-103)	Special Ditch Control (EC-101)	Remarks
Road Identification	Begin Station	End Station	Side	FT	FT		Type 1	Type 2	Type 3	Type 4	Squares	Squares	
							Squares	Squares	Squares	Squares			
OPEN DITCH	301+43.63	307+01.71	C	558.0	10.0	56						56.0	
OPEN DITCH	301+43.63	307+23.25	LT								139		
OPEN DITCH	301+43.63	307+23.25	RT								91		
E. RICHLAND STREET - STAGE 1 & 2	0+50	0+79	RT								3		
E. RICHLAND STREET - STAGE 1 & 2	1+53	3+62	RT								30		
E. RICHLAND STREET - STAGE 1 & 2	4+03	8+91	RT								116		
E. RICHLAND STREET - STAGE 1 & 2	5+45	8+14	RT									31	
E. RICHLAND STREET - STAGE 1 & 2	4+00	8+16	LT								95		
E. RICHLAND STREET - STAGE 1 & 2	4+82	7+98	LT									37	
E. RICHLAND STREET - STAGE 2 & 3	9+15	11+60	RT								50		
E. RICHLAND STREET - STAGE 2 & 3	9+58	11+45	RT									19	
E. RICHLAND STREET - STAGE 2 & 3	11+78	14+05	RT								53		
E. RICHLAND STREET - STAGE 2 & 3	13+00	13+82	RT									8	
E. RICHLAND STREET - STAGE 2 & 3	14+39	26+37	RT								165		
E. RICHLAND STREET - STAGE 2 & 3	14+58	26+32	RT									117	
E. RICHLAND STREET - STAGE 2 & 3	8+53	11+60	LT								59		
E. RICHLAND STREET - STAGE 2 & 3	8+53	11+41	LT									31	
E. RICHLAND STREET - STAGE 2 & 3	11+97	12+86	LT								22		
E. RICHLAND STREET - STAGE 2 & 3	12+27	12+71	LT									4	
E. RICHLAND STREET - STAGE 2 & 3	13+22	14+13	LT								23		
E. RICHLAND STREET - STAGE 2 & 3	13+47	13+95	LT									5	
E. RICHLAND STREET - STAGE 2 & 3	14+54	15+24	LT								15		
E. RICHLAND STREET - STAGE 2 & 3	14+71	14+956	LT									2	
E. RICHLAND STREET - STAGE 2 & 3	15+61	17+87	LT								42		
E. RICHLAND STREET - STAGE 2 & 3	15+83	17+62	LT									18	
E. RICHLAND STREET - STAGE 2 & 3	18+32	19+21	LT								17		
E. RICHLAND STREET - STAGE 2 & 3	18+55	18+97	LT									4	
E. RICHLAND STREET - STAGE 2 & 3	19+54	20+77	LT								25		
E. RICHLAND STREET - STAGE 2 & 3	19+73	20+55	LT									8	
E. RICHLAND STREET - STAGE 2 & 3	21+22	24+05	LT								44		
E. RICHLAND STREET - STAGE 2 & 3	21+39	23+85	LT									25	
E. RICHLAND STREET - STAGE 2 & 3	24+45	26+40	LT								26		
E. RICHLAND STREET - STAGE 2 & 3	24+60	26+40	LT									18	
										TOTALS	1015	384	

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201

Cross Section View

Longitudinal Profile View

* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: [0.5*Spacing*(0.5*H^2*FS+DW*H+0.5*H^2*BS)]

This Data Entry Sheet fills Tab 100-18 effective 10-16-18

Basin No.	Type	Location		Bid Items			Stormwater Storage Volume Summary							Subtotal	Remarks
		Station	Side	Installation	Maintenance	Removal	Foreslope	Backslope	Ditch Width	Avg.% Slope	Spacing	Down Stream	Volume*		
				LF	LF	LF	FS:1	BS:1	FT	Ditch Grade			CF		
	1	7+83.61	LT	25.0	25.0	25.0	4.9	3.0	4.0	1.5%	100.0	12.5			E. RICHLAND ST. ALIGNMENT
	1	6+81.36	LT	25.0	25.0	25.0	5.6	3.0	4.0	1.5%	100.0	13.1			E. RICHLAND ST. ALIGNMENT
	1	5+81.02	LT	25.0	25.0	25.0	3.4	3.0	4.0	1.5%	100.0	11.1			E. RICHLAND ST. ALIGNMENT
	1	4+90.41	LT	25.0	25.0	25.0	4.9	3.0	4.0	0.8%	155.0	12.5			E. RICHLAND ST. ALIGNMENT
	1	7+92.73	RT	25.0	25.0	25.0	6.6	3.0	4.0	3.3%	45.0	14.0			E. RICHLAND ST. ALIGNMENT
	1	7+47.70	RT	25.0	25.0	25.0	6.0	3.0	4.0	1.3%	100.0	13.5			E. RICHLAND ST. ALIGNMENT
	1	6+47.70	RT	25.0	25.0	25.0	6.0	3.0	4.0	1.4%	100.0	13.5			E. RICHLAND ST. ALIGNMENT
	1	306+80.98	CL	45.0	45.0	45.0	4.0	4.0	4.0	0.1%	315.0	12.6			OPEN DITCH
	1	303+79.12	CL	45.0	45.0	45.0	4.0	4.0	4.0	0.1%	315.0	12.6			OPEN DITCH
	1	9+28.68	LT	25.0	25.0	25.0	6.8	3.0	4.0	1.0%	155.0	14.2			E. RICHLAND ST. ALIGNMENT
	1	10+83.61	LT	25.0	25.0	25.0	4.5	3.0	4.0	1.0%	155.0	12.1			E. RICHLAND ST. ALIGNMENT
	3	16+12.63	LT	25.0	25.0	25.0	25.6	3.0	4.0	0.3%	315.0	31.2			E. RICHLAND ST. ALIGNMENT
	3	21+55.35	LT	25.0	25.0	25.0	18.4	3.0	4.0	0.7%	155.0	24.7			E. RICHLAND ST. ALIGNMENT
	3	26+27.70	LT	25.0	25.0	25.0	24.3	3.0	4.0	0.7%	155.0	29.9			E. RICHLAND ST. ALIGNMENT
	1	24+20.00	RT	25.0	25.0	25.0	3.7	3.0	4.0	0.4%	315.0	11.4			E. RICHLAND ST. ALIGNMENT
	1	21+05.00	RT	25.0	25.0	25.0	4.7	3.0	4.0	0.4%	315.0	12.3			E. RICHLAND ST. ALIGNMENT
	1	17+90.00	RT	25.0	25.0	25.0	4.4	3.0	4.0	0.4%	315.0	12.0			E. RICHLAND ST. ALIGNMENT
	3	14+75.00	RT	25.0	25.0	25.0	3.3	3.0	4.0	0.4%	315.0	11.1			E. RICHLAND ST. ALIGNMENT
	3	13+25.00	RT	25.0	25.0	25.0	3.0	3.0	4.0	0.4%	315.0	10.8			E. RICHLAND ST. ALIGNMENT
	3	11+25.00	RT	25.0	25.0	25.0	4.9	3.0	4.0	1.3%	100.0	12.5			E. RICHLAND ST. ALIGNMENT
	1	10+25.00	RT	25.0	25.0	25.0	6.0	3.0	4.0	1.3%	100.0	13.5			E. RICHLAND ST. ALIGNMENT

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Location			Length of Installation			Remarks
Begin Station	End Station	Side	9 inch Dia	12 inch Dia	20 inch Dia	
			LF	LF	LF	
5+12.22		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRONS)
5+16.43		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRONS)
5+29		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR EXIST. APRON)
7+73.83		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
11+44.76		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
11+45.64		RT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
12+12.90		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR EXIST. INTAKE)
13+00.30		RT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
13+44.07		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
13+80.48		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR EXIST. APRON)
13+80.55		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR EXIST. INTAKE)
14+55.31		RT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
14+68.29		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
15+93.96		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
15+99.10		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
18+59.44		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
18+62.75		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
19+73.06		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
21+37.94		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR NEW APRON)
26+41.32		LT	25.0			SEE 'RC' SHEETS FOR LOCATIONS (PERIMETER FOR EXIST. APRON)

TABULATION OF SILT FENCES

Refer to EC-201

This Data Entry Sheet fills Tab 100-17 effective 04-20-10

Location			Length	Remarks
Begin Station	End Station	Side	LF	
4+63.05	5+84.67	RT	124.0	E. RICHLAND ST ALIGNMENT
9+23.91	9+36.53	RT	25.0	E. RICHLAND ST ALIGNMENT
9+36.53	26+29.76	RT	1693.0	E. RICHLAND ST ALIGNMENT

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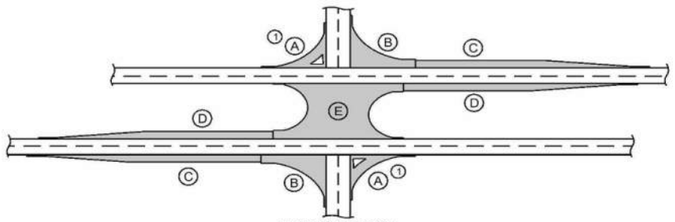
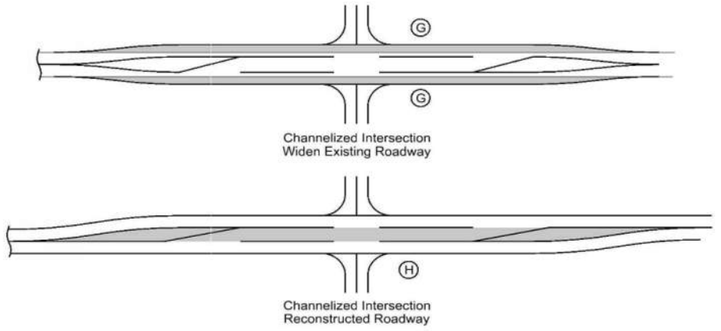
PCC PAVEMENT

This Data Entry Sheet fills Tab 100-24 effective 04-21-15





1. Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
2. Refer to PV-410, PV-411, PV-412, and PV-414.
3. Quantity includes Pavement Header.

Location				Mainline			Area (3)													
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	A (1)	B	C	D	E	F (2)	G	H	Total Area By Pavement Thickness		Special Backfill	Modified Subbase	Granular Subbase	Remarks
															SY					
				FT	FT	SY	SY	SY	SY	SY	SY	SY	SY	SY	8 IN	10½ IN	TONS	CY	SY	
E. RICHLAND STREET	W/E	+49.80	5+75.00	31.0	525.2	1809.0	28.5	28.5							1866.0			347.2		FULL CURB AND GUTTER
E. RICHLAND STREET	W/E	5+75.00	6+62.50	VARIES	87.5	267.4									267.4			51.0		NO CURB AND GUTTER
E. RICHLAND STREET	W/E	6+62.50	9+57.52	24.0	295.0	786.7	260.1	253.0							1299.8			243.8		NO CURB AND GUTTER
INDUSTRY STREET	N/S	+15.50	+23.65	31.0	8.2	28.1									28.1			4.7		NO CURB AND GUTTER
EXPANSION BLVD.	N/S	+65.20	1+43.16	24.0	78.0	207.9									207.9			34.7		NO CURB AND GUTTER
EXPANSION BLVD.	N/S	1+69.47	2+41.16	24.0	71.7	191.2									191.2			31.9		NO CURB AND GUTTER
RAY STREET	N/S	+45.44	+83.01	24.0	37.6	100.2	38.9	38.9							177.9			33.9		INTERSECTION
ROTHMOOR ROAD	N/S	+35.50	+88.00	24.0	52.5	140.0	88.0	88.0							315.9			58.7		INTERSECTION
														Totals	4354.2			806.0		

GRATE INTAKE SEDIMENT FILTER BAG

Possible Detail: 570-7

This Data Entry Sheet fills Tab 100-37 effective 04-18-17

Location Station	Side	Installation	Maintenance	Removal	Remarks
		EACH	EACH	EACH	
1+89.26	RT	2	2	2	
1+89.26	LT	2	2	2	
5+14.34	RT	2	2	2	
5+14.34	LT	2	2	2	

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FULL-DEPTH PATCHES

Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105 and PR-140.

This Data Entry Sheet fills Tab 102-6C effective 04-18-17

Location				Dimension			PCC Patches													
Count	Station	Reference Location Sign	Lane	Length	Width	Patch Thickness	With Dowels	Without Dowels	C R C	Ramp with Dowels	HMA Patches	Composite HMA	Subbase Patches	Subbase Patch w/ 'EF' Joint	Patch Subdrain	'CD' Joints	'CT' Joints	'EF' Joints	Anchor Lugs Removal	Remarks
							PR-103	PR-102	PR-104	PR-105			PR-140	PR-101	PR-101 or PR-140			PR-101		
			L, R, or B	FT	FT	IN	SY	SY	SY	SY	SY	TON	SY	SY	No.	No.	No.	No.	No.	
2	11+28.30		B	20.0	24.0	9.0	53									1				
2	11+89.80		B	28.5	24.0	9.0	76									1				
1	12+47.00		R	21.0	4.0	9.0	9									1				
2	12+98.00		B	90.4	24.0	9.0	241									4				
1	13+88.40		L	30.5	6.0	9.0	20									2				
1	14+38.50		L	20.5	7.0	9.0	16										1			
1	14+99.10		L	20.0	6.0	9.0	13										1			
2	15+39.80		B	160.0	24.0	9.0	427									9				
1	17+39.70		L	20.0	5.0	9.0	11										1			
1	18+30.00		L	37.5	12.0	9.0	50									2				
1	18+30.00		R	30.0	12.0	9.0	40									1				
1	21+20.50		L	20.0	8.0	9.0	18										1			
1	21+80.70		L	40.0	12.0	9.0	53									2				
1	21+80.70		R	43.0	12.0	9.0	57									2				
1	25+75.10		R	6.0	12.0	9.0	8													
1	26+01.60		R	6.0	12.0	9.0	8													
1	26+20.10		R	19.0	12.0	9.0	25										1			
1	26+30.10		L	9.0	12.0	9.0	12										1			
						Totals	1139													

PARTIAL DEPTH PCC FINISH PATCHES

Possible Standard: PR-107

This Data Entry Sheet fills Tab 102-10 effective 10-16-18

Location					Estimated Quantities				
Begin Station	End Station	Begin Reference Location Sign	End Reference Location Sign	Lane	Finish Patches		Joint and Crack Repair Patches		Remarks
					Number	SF	Number	LF	
10+52.50	10+61.60			R	1	55			
10+97.60	11+22.60			R	1	150			
21+40.70	21+42.70			R	1	4			
24+75.10	24+77.10			L	1	4			
26+51.90	26+53.90			L	1	4			
26+53.90	26+55.90			B			1	21	
					Total	217		21	

DRAINAGE STRUCTURE BY ROAD CONTRACTOR

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.

* Not a bid item

①Diameter or equivalent diameter

②UNCL = Unclassified Pipe CMP = Corrugated Metal Pipe RCP = Reinforced Concrete Pipe LCP = Arch or Elliptical Low Clearance Pipe SARC = Steel Arch Pipe

③Backfill according to DR-101

This Data Entry Sheet fills Tab 104-3 effective 10-17-17

Drainage Area	Location	Type	Size ①	Kind Of Pipe ②	Length New Const.	Bedding Class	Design Cover (H)	Camber* (DR-102)	Apron No.		Apron Guard* (DR-213)	Elbow* (DR-141)	Diaphragm* (DR-501)	Tee Section* (DR-142)	"D" Section* (DR-141)	Reducer*	Type 'C' Connections* (DR-122)		Connected Pipe Joint* (DR-121)	4" Perforated Subdrain*	Flow Line Elevations				Dimensions Lin. Ft.				Skew Ahead Degrees		Dike				Class 20	Flowable Mortar	Floodable* Backfill	Porous* Backfill	Flooded Backfill	Remarks
																									Total		Extensions				Rt.	Location Station	Top Elevation	Type						
ACRE			IN		LF		FT	FT	IN	OUT	No.	No.	No.	No.	No.	No.	Type	No.	Type	FT	Lt.	Rt.	Other	Other	Lt.	Rt.	Lt.	Rt.	Lt.	Rt.	Lt.				CY	CY	(A) CY	(B) CY	(A+B) CY	
	STA. 13+52.06		24	RCP	64	C	3.9	0.08	1	1									Type 2		1419.80	1419.12			37.6	38.4			31	31					179.2					
	STA.15+94.20		24	RCP	48	C	2.3	0.08	1	1									Type 2		1420.70	1420.19			29.2	30.8			0	0					57.6					
	STA.15+98.76		24	RCP	48	C	2.3	0.08	1	1									Type 2		1420.70	1420.19			29.2	30.8			0	0					57.6					
	STA. 18+46.66		29x18	RCP	56	C	2.2	0.08	1	1									Type 2		1421.67	1421.16			33.6	34.4			19	19					60.5					
	STA. 18+51.50		29x18	RCP	56	C	2.2	0.08	1	1									Type 2		1421.67	1421.16			33.6	34.4			19	19					60.5					
																																		415.3					

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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER C.07	REVISED

E. RICHLAND STREET BETWEEN INDUSTRY STREET & EXPANSION BLVD.

STORM SEWER STRUCTURES

STRUCTURE	ALIGNMENT	STATION	OFFSET	TYPE	RIM/FG ELEV	INLET ELEV	OUTLET ELEV	REMARKS
FES 1	Alignment - Prop Ditch	307+16.84	0.00'	FES (42IN)	1418.24	1414.28, 42" RCP N		(2)
FES 2	Alignment - Prop Ditch	308+58.28	0.00'	FES (24IN)	1421.83		1419.50, 24" RCP S	(2)
FES 3	Alignment - Prop Ditch	308+57.89	-4.43' L	FES (24IN)	1421.83		1419.50, 24" RCP S	(2)
INT 1	Alignment - Prop Ditch	308+04.39	0.00'	SW-505	1423.77	1415.01, 36" RCP N	1414.91, 42" RCP S	
INT 2	Alignment - Prop Ditch	308+35.39	0.00'	SW-505	1423.77	1418.65, 24" RCP N 1418.65, 24" RCP N	1417.65, 36" RCP S	
INT 3	Alignment - RICHLAND ST	1+89.26	15.50' R	SW-505	1419.78		1415.78, 18" RCP N	
INT 4	Alignment - RICHLAND ST	1+89.26	-15.50' L	SW-505	1419.79		1415.78, 18" RCP S	
MH - 1	Alignment - RICHLAND ST	5+14.34	0.00' L	SW-401 (84IN)	1424.07	1415.27, 24" RCP W 1417.49, 36" RCP N	1415.17, 36" RCP S	
MH - 2	Alignment - RICHLAND ST	1+89.26	0.00'	SW-401 (60IN)	1420.09	1415.70, 18" RCP S 1415.70, 18" RCP N	1415.60, 24" RCP E	

STORM SEWER PIPES

FROM STRUCTURE	TO STRUCTURE	PIPE DIA	Length	PIPE GRADE	START INV	END INV	REMARKS
FES 2	INT 2	24" RCP	23 LF	3.71%	1419.50	1418.65	(2, 4, 5) PAID AS STORM SEWER
FES 3	INT 2	24" RCP	23 LF	3.71%	1419.50	1418.65	(2, 4, 5) PAID AS STORM SEWER
INT 1	FES 1	42" RCP	88 LF	0.71%	1414.91	1414.28	(2, 4, 5) PAID AS STORM SEWER
INT 2	MH - 1	36" RCP	16 LF	1.00%	1417.65	1417.49	(5) PAID AS STORM SEWER
INT 3	MH - 2	18" RCP	16 LF	0.50%	1415.78	1415.70	(5) PAID AS STORM SEWER
INT 4	MH - 2	18" RCP	16 LF	0.50%	1415.78	1415.70	(5) PAID AS STORM SEWER
MH - 1	INT 1	36" RCP	16 LF	1.00%	1415.17	1415.01	(5) PAID AS STORM SEWER
MH - 2	MH - 1	24" RCP	325 LF	0.10%	1415.60	1415.27	(5) PAID AS STORM SEWER

(1) EXISTING REFERENCE INFORMATION ONLY
(2) SEE DR-121, TYPE 2 (SEALED JOINT), CONNECTED PIPE JOINTS
(3) SEE DR-102, PIPE CULVERT (COVER & CAMBER)
(4) LENGTH INCLUDES APRONS
(5) JOINTS SHALL BE GASKET.

E. RICHLAND STREET BETWEEN EXPANSION BLVD. & RADIO ROAD

STORM SEWER STRUCTURES

STRUCTURE	ALIGNMENT	STATION	OFFSET	TYPE	RIM/FG ELEV	INLET ELEV	OUTLET ELEV	REMARKS
EX MH - 1	Alignment - RICHLAND ST	11+97.52	60.55' R	Exist MH	1424.45	1415.30, 30" RCP N 1418.50, 30" RCP E 1420.30, 18" RCP NW	1415.25, 30" RCP W	(1)
EX MH - 2	Alignment - RICHLAND ST	11+99.21	-20.67' L	Exist. MH	1426.77	1421.91, 24" RCP W 1415.85, 30" RCP N 1417.60, 18" RCP NE	1416.00, 30" RCP S	(1)
FES 6	Alignment - RICHLAND ST	11+45.08	38.00' R	FES (18IN)	1425.34		1423.55, 18" RCP SE	(2)
FES 7	Alignment - RICHLAND ST	13+00.00	38.00' R	FES (30IN)	1421.88		1419.00, 30" RCP W	(2)
FES 8	Alignment - RICHLAND ST	11+41.40	-36.04' L	FES (24IN)	1425.76		1423.43, 24" RCP E	(2)
FES 9	Alignment - RICHLAND ST	13+32.21	32.83' R	FES (24IN)	1421.49	1419.15, 24" RCP NE		(2)
FES 10	Alignment - RICHLAND ST	13+71.53	-32.20' L	FES (24IN)	1422.12		1419.78, 24" RCP SW	(2)
FES 11	Alignment - RICHLAND ST	13+82.28	38.00' R	FES (30IN)	1422.21	1419.33, 30" RCP E		(2)
FES 12	Alignment - RICHLAND ST	14+58.28	38.00' R	FES (30IN)	1422.51		1419.64, 30" RCP W	(2)
FES 13	Alignment - RICHLAND ST	12+70.50	-36.00' L	FES (18IN)	1423.51		1421.72, 18" RCP E	(2)
FES 14	Alignment - RICHLAND ST	13+46.50	-36.00' L	FES (18IN)	1422.14	1420.35, 18" RCP W		(2)
FES 15	Alignment - RICHLAND ST	13+95.32	-36.00' L	FES (18IN)	1421.97	1420.18, 18" RCP E		(2)
FES 16	Alignment - RICHLAND ST	14+71.32	-36.00' L	FES (18IN)	1422.06		1420.27, 18" RCP W	(2)
FES 17	Alignment - RICHLAND ST	15+94.20	30.82' R	FES (24IN)	1422.56	1420.23, 24" RCP N		(2)
FES 18	Alignment - RICHLAND ST	15+94.20	-29.18' L	FES (24IN)	1423.00		1420.67, 24" RCP S	(2)
FES 19	Alignment - RICHLAND ST	15+98.76	30.82' R	FES (24IN)	1422.56	1420.23, 24" RCP N		(2)
FES 20	Alignment - RICHLAND ST	15+98.76	-29.18' L	FES (24IN)	1423.00		1420.67, 24" RCP S	(2)
FES 21	Alignment - RICHLAND ST	18+35.15	32.38' R	FES (24IN) Low Clearance	1423.06	1421.18, 28" N		(2)
FES 22	Alignment - RICHLAND ST	18+57.93	-31.69' L	FES (24IN) Low Clearance	1423.52		1421.64, 28" S	(2)
FES 23	Alignment - RICHLAND ST	18+39.92	32.58' R	FES (24IN) Low Clearance	1423.06	1421.19, 28" N		(2)
FES 24	Alignment - RICHLAND ST	18+62.70	-31.49' L	FES (24IN) Low Clearance	1423.53		1421.65, 28" S	(2)
FES 25	Alignment - RICHLAND ST	18+97.26	-36.00' L	FES (24IN)	1424.25	1421.91, 24" RCP E		(2)
FES 26	Alignment - RICHLAND ST	19+73.27	-36.00' L	FES (24IN)	1424.76		1422.42, 24" RCP W	(2)
FES 27	Alignment - RICHLAND ST	20+54.93	-36.00' L	FES (18IN)	1424.77	1422.97, 18" RCP E		(2)
FES 28	Alignment - RICHLAND ST	21+38.93	-36.00' L	FES (18IN)	1425.33		1423.54, 18" RCP W	(2)

STORM SEWER PIPES

FROM STRUCTURE	TO STRUCTURE	PIPE DIA	Length	PIPE GRADE	START INV	END INV	REMARKS
	EX MH - 2	18" RCP-E	18 LF	12.94%	1419.99	1417.60	(1)
	EX MH - 2	30" RCP-E	138 LF	0.85%	1417.03	1415.85	(1)
EX MH - 1		30" RCP-E	244 LF	0.13%	1415.25	1414.92	(1)
EX MH - 2	EX MH - 1	30" RCP-E	81 LF	0.86%	1416.00	1415.30	(1)
FES 6	EX MH - 1	18" RCP	57 LF	5.70%	1423.55	1420.30	(2, 4, 5) PAID AS STORM SEWER
FES 7	EX MH - 1	30" RCP	105 LF	0.48%	1419.00	1418.50	(2, 4, 5) PAID AS STORM SEWER
FES 8	EX MH - 2	24" RCP	60 LF	2.54%	1423.43	1421.91	(2, 4, 5) PAID AS STORM SEWER
FES 10	FES 9	24" RCP	76 LF	0.83%	1419.78	1419.15	(2, 3, 4) PAID AS ROADWAY PIPE
FES 12	FES 11	30" RCP	76 LF	0.40%	1419.64	1419.33	(2, 3, 4) PAID AS ENT PIPE
FES 13	FES 14	18" RCP	76 LF	1.80%	1421.72	1420.35	(2, 3, 4) PAID AS ENT PIPE
FES 16	FES 15	18" RCP	76 LF	0.12%	1420.27	1420.18	(2, 3, 4) PAID AS ENT PIPE
FES 18	FES 17	24" RCP	60 LF	0.73%	1420.67	1420.23	(2, 3, 4) PAID AS ROADWAY PIPE
FES 20	FES 19	24" RCP	60 LF	0.73%	1420.67	1420.23	(2, 3, 4) PAID AS ROADWAY PIPE
FES 22	FES 21	29"x18" RCP	68 LF	0.68%	1421.64	1421.18	(2, 3, 4) PAID AS ROADWAY PIPE
FES 24	FES 23	29"x18" RCP	68 LF	0.68%	1421.65	1421.19	(2, 3, 4) PAID AS ROADWAY PIPE
FES 26	FES 25	24" RCP	76 LF	0.67%	1422.42	1421.91	(2, 3, 4, 6) PAID AS ENT PIPE
FES 28	FES 27	18" RCP	84 LF	0.67%	1423.54	1422.97	(2, 3, 4, 6) PAID AS ENT PIPE

(1) EXISTING REFERENCE INFORMATION ONLY
(2) SEE DR-121, TYPE 2 (SEALED JOINT), CONNECTED PIPE JOINTS
(3) SEE DR-102, PIPE CULVERT (COVER & CAMBER)
(4) LENGTH INCLUDES APRONS
(5) JOINTS SHALL BE GASKET
(6) SALVAGE EXISTING CULVERTS AND APRONS TO PROPERTY OWNER.

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LIST OF SUBDRAIN WORK

Possible Standards: DR-121, DR-201, DR-203, DR-301, DR-302, DR-303, DR-305 and DR-306. Possible Detail: 500-10.

* Not a bid item ** DR-303 Shall be the connection to Intake

This Data Entry Sheet fills Tab 104-5C effective 10-17-17

Location					Pipe			Aprons		Outlets				Connected Pipe Joints*		Trench Drain	Granular Material	Porous Backfill*	Class "A" Crushed Stone*	SUBDRAIN CLEANOUT	Remarks
No.	Station to Station		Side	Type of Installation	Concrete, C.M.P., or Plastic	Dia.	Length	DR-201	DR-203	500-10	DR-305		DR-303 **	DR-121			Blanket				
			LT/RT	DR-301, DR-302, DR-303		IN	LF	No.	No.	No.	Type	No.	No.	Type	No.	LF	CY	CY	CY	No.	
1	0+59.38	1+91.26	LT	DR-303, Type 7A	Plastic	6.0	132						1					15.0			CONNECT OUTLET TO EXISTING SUBDRAIN CLEANOUT
2	1+91.26	5+14.53	LT	DR-303, Type 7A	Plastic	6.0	323						2					36.2			
3	5+14.53	8+15.42	LT	DR-303, Type 7A	Plastic	6.0	352						1					39.5		1	PORTION OF SUBDRAIN FOLLOWS CURVATURE OF INTERSECTION RETURN
4	8+41.62	9+53.52	LT	DR-303, Type 7A	Plastic	6.0	178											20.3		2	PORTION OF SUBDRAIN FOLLOWS CURVATURE OF INTERSECTION RETURN
5	+59.42	1+91.26	RT	DR-303, Type 7A	Plastic	6.0	132						1					15.0			CONNECT OUTLET TO EXISTING SUBDRAIN CLEANOUT
6	1+91.26	5+14.93	RT	DR-303, Type 7A	Plastic	6.0	324						2					36.9			
7	5+14.93	8+90.25	RT	DR-303, Type 7A	Plastic	6.0	406						1					46.1		1	PORTION OF SUBDRAIN FOLLOWS CURVATURE OF INTERSECTION RETURN
9	9+18.64	9+77.72	RT	DR-303, Type 7A	Plastic	6.0	100											11.4		1	PORTION OF SUBDRAIN FOLLOWS CURVATURE OF INTERSECTION RETURN
10	9+18.64	9+53.04	RT	DR-303, Type 7A	Plastic	6.0	35						1					4.0			OUTLET IS TO EXISTING STORM SEWER MANHOLE
						TOTAL	1982						9					224.5			

ADJUSTMENT OF FIXTURES

This Data Entry Sheet fills Tab 104-10 effective 08-01-08

No.	Location Station	Type of Fixture	Adjustment
1	9+90.27, 28.66 R	FIRE HYDRANT	SEE WATER MAIN CONSTRUCTION TABLE, HYDRANT FLANGE ELEV. COLUMN
2	13+84, 33.45 R	FIRE HYDRANT	SEE WATER MAIN CONSTRUCTION TABLE, HYDRANT FLANGE ELEV. COLUMN
3	17+59.02, 26.77 R	FIRE HYDRANT	SEE WATER MAIN CONSTRUCTION TABLE, HYDRANT FLANGE ELEV. COLUMN
4	21+50.32, 26.30 R	FIRE HYDRANT	SEE WATER MAIN CONSTRUCTION TABLE, HYDRANT FLANGE ELEV. COLUMN
5	24+98.50, 22.99 R	FIRE HYDRANT	SEE WATER MAIN CONSTRUCTION TABLE, HYDRANT FLANGE ELEV. COLUMN
6	11+75.69, 53.58 L	SAN MH CASTING	SEE 'MSA' SHEETS FOR LOCATION AND BID ITEM 'MANHOLE ADJUSTMENT, MINOR'

STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.

This Data Entry Sheet fills Tab 105-4 effective 10-18-11

Number	Date	Title
DR-102	04-21-15	PIPE CULVERT (COVER AND CAMBER)
DR-121	10-17-17	CONNECTED PIPE JOINTS
DR-201	04-21-20	CONCRETE APRONS
DR-202	04-21-20	LOW CLEARANCE CONCRETE PIPE APRONS
DR-303	10-17-17	SUBDRAINS (LONGITUDINAL)
EC-101	04-19-16	SPECIAL DITCH CONTROL, WOOD EXCELSIOR MAT
EC-103	04-21-15	WOOD EXCELSIOR MAT FOR SLOPE CONTROL
EC-201	04-20-21	SILT FENCE
EC-204	10-19-21	PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICE
EC-303	10-19-21	STABILIZED CONSTRUCTION ENTRANCE
PR-103	04-21-20	FULL DEPTH PCC PATCH WITH DOWELS
PR-107	10-16-18	PARTIAL DEPTH PCC FINISH PATCHES
PV-10	04-21-20	RUMBLE STRIP PANEL FOR INTERSECTION APPROACH
PV-101	04-19-22	JOINTS
PV-102	04-21-20	PCC CURB DETAILS
PV-103	04-19-22	MANHOLE BOXOUTS IN PCC PAVEMENT
SI-101	04-19-16	LOCATIONS - TYPE 'A' SIGNS
SW-101	04-17-18	TRENCH BEDDING AND BACKFILL ZONES
SW-102	04-20-21	RIGID GRAVITY PIPE TRENCH BEDDING
SW-103	04-20-21	FLEXIBLE GRAVITY PIPE TRENCH BEDDING
SW-104	04-20-21	PRESSURE PIPE TRENCH BEDDING
SW-201	04-21-20	SANITARY SEWER SERVICE STUB
SW-203	04-17-18	SANITARY SEWER CLEANOUT
SW-301	04-20-21	CIRCULAR SANITARY SEWER MANHOLE
SW-401	04-20-21	CIRCULAR STORM SEWER MANHOLE
SW-505	04-21-20	DOUBLE GRATE INTAKE
SW-601	04-21-20	CASTINGS FOR SANITARY SEWER MANHOLES
SW-602	04-21-20	CASTINGS FOR STORM SEWER MANHOLES
SW-603	10-16-18	CASTINGS FOR GRATE INTAKES
TC-1	10-15-19	WORK NOT AFFECTING TRAFFIC (TWO-LANE OR MULTI-LANE)
TC-212	04-21-20	SPOT LOCATION LANE CLOSURE WITH FLAGGERS
TC-252	04-21-20	ROUTES CLOSED TO TRAFFIC
WM-101	10-18-16	THRUST BLOCKS
WM-102	10-18-16	TRACER SYSTEM
WM-201	04-20-21	FIRE HYDRANT ASSEMBLY
570-7	10-19-21	GRATE INTAKE SEDIMENT FILTER BAG

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REMOVAL OF PAVEMENT

Refer to Tabulation 102-5

* Not a Bid Item

This Data Entry Sheet fills Tab 110-1 effective 04-16-13

Begin Station	End Station	Side	Pavement Type	Length	Width	Area	Area	Saw Cut*	Remarks
				FT	FT	FT	SY	LF	
+49.75	9+57.52	BOTH	P.C.C.	907.77	VARIABLE	33394.51	3710.5	107.7	INCLUDES INTERSECTION OF EXPANSION BLVD & E. RICHLAND ST.
				0		0			
				0		0			
				0		0			
				0		0			
				0		0			

REMOVAL OF CONCRETE DRIVES

* Not a Bid Item

This Data Entry Sheet fills Tab 110-08 effective 04-17-18

Location		Length	Width	Area	Area	Saw Cut*	Remarks
Station	Side	FT	FT	SF	SY	LF	
1+73.60	LT	247.8	4.0	991	110.1	255.8	SEE PLAN SHTS 'R'
3+81.77	RT			583	64.8	38.6	SEE PLAN SHTS 'R'
13+07.02	LT			241	26.8	13.7	SEE PLAN SHTS 'R'
14+33.92	LT			661	73.5	37.5	SEE PLAN SHTS 'R'
15+41.26	LT			382	42.5	32.2	SEE PLAN SHTS 'R'
16+74.80	LT			788	87.5	46.8	SEE PLAN SHTS 'R'
19+36.88	LT			320	35.6	61.9	SEE PLAN SHTS 'R'
20+97.65	LT			824	91.6	47.7	SEE PLAN SHTS 'R'
				0			
				0			

DELIVERY AND STOCKPILING

This Data Entry Sheet fills Tab 110-13 effective 04-20-10

Item Description	Quantity	Units	Delivery Location	Contact Name & Number	Remarks
REMOVE AND REINSTALL SIGNS	22	EACH	433 VILAS ROAD STORM LAKE, IA. 50588	KIM WOLTMAN, PH. (712)732-8029	
SALVAGE FIRE HYDRANT	2	EACH	6011 HWY 110 STORM LAKE, IA 50588	SHANE STEWART, PH. (712)732-8031	
SALVAGE AIR RELEASE VALVE	1	EACH	6011 HWY 110 STORM LAKE, IA 50588	SHANE STEWART, PH. (712)732-8031	

SANITARY, STORM SEWER AND WATER ABANDONMENT OR REMOVAL

* Not a bid item

This Data Entry Sheet fills Tab 110-14 effective 04-16-13

Location/Description	Sanitary, Storm Sewer, Water	Abandonment, Plug Only or Abandonment, Plug and Fill or Removal	Length of Pipe		Fill Material*	Remarks
			≤ 36 inch diameter	> 36 inch diameter	Flowable Mortar or CLSM	
			LF	LF	CY	
EXPANSION BLVD.	SANITARY	REMOVAL	250			
E. RICHLAND STREET	STORM SEWER	REMOVAL	100			
E. RICHLAND STREET	WATER	REMOVAL	917			
E. RICHLAND STREET, STA. 5+60.83	STORM SEWER	REMOVAL				REMOVE MANHOLE AND APRONS
E. RICHLAND STREET, STA. 8+48.3, 54' LT	SANITARY	REMOVAL				REMOVE MANHOLE
E. RICHLAND STREET, STA. 8+86.24, 34.74' RT	WATER	REMOVAL				REMOVE AIR RELEASE MANHOLE
E. RICHLAND STREET, STA. 12+13.02 32.93' LT	STORM SEWER	REMOVAL				REMOVE AREA INTAKE
E. RICHLAND STREET, STA. 13+80.93, 38.60' LT	STORM SEWER	REMOVAL				REMOVE AREA INTAKE

REMOVAL OF INTAKES AND UTILITY ACCESSES

This Data Entry Sheet fills Tab 110-15 effective 04-16-13

No.	Location/Description	Type	Remarks
1	2+14.27, 21.9' RT, E. RICHLAND STREET	WATER	FIRE HYDRANT, SALVAGE TO CITY
2	5+60.8, 27.0' RT, E. RICHLAND STREET	STORM	STORM MANHOLE
3	6+00.3, 30.0' RT, E. RICHLAND STREET	WATER	FIRE HYDRANT, SALVAGE TO CITY
4	7+84.4, 92.6' LT, E. RICHLAND STREET	CULVERT	DRIVEWAY CULVERT (40 LF)
5	8+86.2, 34.7' RT, E. RICHLAND STREET	WATER	WATER MAIN MANHOLE, W/AIR RELEASE VALVE (SALVAGE TO CITY)
6	11+77.1, 38.2' LT, E. RICHLAND STREET	CULVERT	DRIVEWAY CULVERT (45 LF)
7	12+13, 32.9' LT, E. RICHLAND STREET	INTAKES	AREA INTAKE
8	13+05.8, 34.3' LT, E. RICHLAND STREET	CULVERT	DRIVEWAY CULVERT (64 LF)
9	13+77.7, 27.4' RT TO 13+80.5, 27.0' LT, E. RICHLAND STREET	CULVERT	ROADWAY CULVERT (54.5 LF)
10	13+80.9, 38.6' LT, E. RICHLAND STREET	INTAKES	AREA INTAKE
11	14+21.8, 39.7' RT, E. RICHLAND STREET	CULVERT	FIELD ENTRANCE (49 LF)
12	14+35.1, 40', LT, E. RICHLAND STREET	CULVERT	DRIVEWAY CULVERTS (2), (103.3 LF TOTAL)
13	15+41.2, 40.2' LT, E. RICHLAND STREET	CULVERT	DRIVEWAY CULVERT (49 LF)
14	18+12.3, 45.7' LT, E. RICHLAND STREET	CULVERT	ROADWAY CULVERT (55 LF)
15	19+35.3, 40.9' LT, E. RICHLAND STREET	CULVERT	DRIVEWAY CULVERT (52 LF) SALVAGE TO PROPERTY OWNER
16	20+98.5, 44.9' LT, E. RICHLAND STREET	CULVERT	DRIVEWAY CULVERT (56 LF) SALVAGE TO PROPERTY OWNER

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SHOULDERS

Lane(s) to which the shoulder is adjacent.
Bid Item
Applies only for Paved Shoulders constructed on project with existing granular shoulders.
Does not include shrink.

Calculations assume a HMA unit weight (lbs/cf) of 0 , a Special Backfill unit weight (lbs/cf) of 140 , and a Granular Shoulder unit weight (lbs/cf) of 140 .

Location					Quantities																									
Road Identification	Direction Of Traffic	Station to Station		Side	Paved Start	Paved End	Paved Width	Granular Start	Granular End	Granular Width	Length	Class 13 Excavation	HMA Cross Section Area	Hot Mix Asphalt		Binder	Paved Shoulder	Reinforced Paved Shoulder	Special Backfill Cross Section Area (HMA)	Special Backfill Cross Section Area (PCC)	Special Backfill				Modified Subbase	Granular Shoulder Cross Section Area	Granular Shoulder		Earth Shoulder Construction Cross Section Area (HMA)	Earth Shoulder Construction Cross Section Area (PCC)	Earth Shoulder Construction Alternates			Remarks
																					HMA Alternate		PCC Alternate										
																														STA	HMA	PCC	
					FT	FT	FT	FT	FT	FT	FT	CY	SF	TON	TON/STA	TONS	SY	SY	SF	SF	TON	TON/STA	TON	TON/STA	CY	SF	TON	TON/STA	SF	SF		CY	CY	
E. RICHLAND ST.		5+75.00	7+78.57	RT				4.0	4.0	4.0	203.6																			2.0			
E. RICHLAND ST.		7+78.57	8+22.15	RT				4.0	4.0	4.0	43.6																			0.4			
E. RICHLAND ST.		9+38.61	9+77.52	RT				4.0	4.0	4.0	38.9																			0.4			
E. RICHLAND ST.		5+75.00	7+66.07	LT				4.0	4.0	4.0	191.1																			1.9			
E. RICHLAND ST.		7+66.07	8+00.48	LT				4.0	4.0	4.0	34.4																			0.3			
E. RICHLAND ST.		9+24.74	9+57.52	LT				4.0	4.0	4.0	32.8																			0.3			
EXPANSION BLVD.		+65.19	1+11.47	RT				4.0	4.0	4.0	46.3																			0.5			
EXPANSION BLVD.		1+53.97	2+42.80	RT				4.0	4.0	4.0	88.8																			0.9			
EXPANSION BLVD.		+65.20	1+06.32	LT				4.0	4.0	4.0	41.1																			0.4			
EXPANSION BLVD.		1+06.32	1+62.53	LT				4.0	4.0	4.0	56.2																			0.6			
EXPANSION BLVD.		2+01.22	2+39.50	LT				4.0	4.0	4.0	38.3																			0.4			

RUMBLE STRIP PANELS

Refer to Standard Road Plan PV-10.

This Data Entry Sheet fills Tab 112-7 effective 10-19-10

Location			Pavement		Remarks
Road Ident.	Station	Side	New	Existing	
E. RICHLAND ST.	16+72.81	RT	xlCenter		SEE SHT D.03

EXISTING SIGNS TO BE REMOVED

This Data Entry Sheet fills Tab 190-62 effective 10-15-13

SIGN NUMBER OR DESCRIPTION	LOCATION STATION	SIDE	TYPE 'A' SIGN ASSEMBLY	TYPE 'B' SIGN ASSEMBLY	REMOVE & REINSTALL EXISTING SIGNS	APPLICABLE SIGNING NOTES	REMARKS
			EACH	EACH	EACH		
STOP	1+46	34.95 RT			1		
NO PARKING	2+28	18.04 RT			1		
NO PARKING	4+19	18.29 LT			1		
NO PARKING	6+56	24.08 LT			1		
NO PARKING	6+64	23.97 RT			1		
STOP	8+20	42.91 LT			1		
STREET	8+86	47.21 LT			1		
STOP	9+21	34.89 RT			1		
NO PARKING	9+95	23.40 LT			1		
NO PARKING	10+77	23.60 RT			1		
NO PARKING	10+95	23.75 LT			1		
STOP	11+56	44.21 LT			1		
STREET	12+05	42.66 LT			1		
NO PARKING	13+34	24.72 LT			1		
NO PARKING	14+78	23.91 RT			1		
NO PARKING	14+82	24.86 LT			1		
STOP	17+83	39.49 LT			1		
STREET	18+32	43.54 LT			1		
NO PARKING	22+78	23.95 RT			1		
SPEED	23+34	23.72 LT			1		
NO PARKING	24+78	23.95 RT			1		
STOP	26+20	23.87 RT			1		
				TOTAL	22		

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WATERMAIN CONSTRUCTION

STATION	OFFSET	4" INSULATION (3.56 SY)	6" TEMPORARY BLOWOFF	6" GATE VALVE & BOX	12" GATE VALVE & BOX	6" INSERTION VALVE	12" INSERTION VALVE	HYDRANT ASSEMBLY	MANHOLE W/AIR RELEASE VALVE	HYDRANT FLANGE ELEVATION	6"x11.25° BEND (31 LB)	6"x45° BEND (38 LB)	6" SLEEVE (40 LB)	12"x6" TAPPING SLEEVE (160 LB)	12"x45° BEND (84 LB)	12"x22.30° BEND (94 LB)	12"x90° BEND (134 LB)	12" SLEEVE (94 LB)	8"x6" REDUCER (41 LB)	12"x6" REDUCER (65 LB)	12"X6" TEE (126 LB)	12"X8" TEE (145 LB)	12"X12" TEE (184 LB)	6" THREADED PLUG (16 LB)	6" WATERMAIN (1)	8" WATERMAIN (1)	12" WATERMAIN (1)	CONNECT TO EXIST WATERMAIN	NOTES
		(SY)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)		(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(LF)	(LF)	(LF)	(EACH)	
02+05.21	26.25 R					1																			4				
02+08.67	26.19 R												1							1								1	
02+14.61	26.50 R																						1				6		
02+09.11	18.68 R						1																						
02+14.61	18.54 R																1	1									6	1	
02+14.61	18.54 R																												
02+14.61	26.50 R																										8		
02+20.06	26.50 R				1																						5		
02+24.73	26.50 R							1		1421.0											1						5		
04+86.84	26.49 R															1											262		
05+06.33	34.62 R															1											19		
05+20.02	34.66 R	7.11																											
06+00.78	34.87 R							1		1423.3											1						94		
08+18.28	35.45 R																					1					218		
08+52.64	35.54 R																				1						34		
08+86.23	35.62 R								1																		34		(1, 3)
9+18.13	35.69 R				1																						32		
09+22.53	35.70 R														1												4		
09+25.27	32.97 R		1																								3		
09+27.50	30.74 R														1			1									2	1	
08+18.28	35.45 R																												
08+18.51	54.52 L																		1							90			
08+18.52	56.59 L			1																					2				
08+18.53	59.35 L		1																						3				
08+18.54	62.37 L											1	1												3			1	
08+06.33	78.22 L					1																							
08+52.64	35.54 R																												
08+52.63	40.54 R											1													5				
08+67.54	55.53 R										1														15				
08+69.61	59.70 R			1									1												4			1	
08+76.66	73.40 R					1																							
08+65.21	50.82 R																							1					
11+37.91	33.07 R													1														1	
11+37.91	28.07 R			1																					5				
11+39.05	35.30 L											1													63				
11+54.30	50.49 L											1	1												15			1	
11+52.73	48.52 L		1																										
11+54.02	56.71 L					1																							
11+54.20	43.82 L																							1					
09+90.27	28.66 R									1427.20																			(2)
13+84.00	33.45 R									1421.80																			(2)
17+59.02	26.77 R									1423.50																			(2)
21+50.32	26.30 R									1425.20																			(2)
24+98.50	22.99 R									1427.60																			(2)
	TOTALS	7	3	3	2	4	1	2			1	4	4	1	2	2	1	2	1	1	3	1	1	2	119	90	732	7	
	TOTAL WEIGHTS:										31	152	160	160	168	188	134	188	41	65	378	145	184	32			FITTINGS WEIGHT= 2026LB		

(1) TRENCH FOUNDATION TO BE USED AS NEEDED. (2) ADJUST EXISTING FIRE HYDRANT TO FINISH SURFACE ELEVATION. (3) USE MODIFIED SW-301, 48" DIA MANHOLE FOR AIR RELEASE VALVE. SEE SHEET B.03 FOR DETAIL.

WATER SERVICES

STATION OFFSET (FROM CENTERLINE)	ADDRESS	2" COPPER SERVICE LF	2" CORP STOP, CURB STOP, AND BOX EA	NOTES
2+34.85, 26.50' R	E. RICHLAND STREET	4	1	
3+33.46, 26.49' R	E. RICHLAND STREET	4	1	
4+21.34, 26.49' R	E. RICHLAND STREET	4	1	
	TOTALS	12	3	

SANITARY SEWER STRUCTURES

STRUCTURE	ALIGNMENT	STATION	OFFSET	TYPE	RIM ELEV	INLET ELEV	OUTLET ELEV	REMARKS
CONN 1	Alignment - Expansion Blvd	0+65.20	-0.18' L	Fernco	1410.95	1408.77, 24" NW	1408.77, 24" PVC SE	
CONN 2	Alignment - Expansion Blvd	2+40.40	-5.45' L	Fernco	1410.75	1408.57, 24" PVC NW	1408.57, 24" SE	
CONN 3	Alignment - Expansion Blvd	0+75.61	30.21' R	Fernco 8"x4"	1410.05		1409.31, 8" PVC E	
CONN 4	Alignment - Expansion Blvd	0+91.42	-26.42' L	Fernco 6"x4"	1422.15		1421.58, 6" PVC SW	
CONN 5	Alignment - Expansion Blvd	1+08.35	-25.15' L	Fernco	1410.57		1409.82, 8" PVC W	
MH - 1	Alignment - Expansion Blvd	0+98.12	-2.34' L	SW-301-CC 48	1427.92	1408.75, 24" PVC NW 1409.72, 8" PVC E 1409.16, 8" PVC W	1408.71, 24" PVC SE	
WYE 24x6	Alignment - Expansion Blvd	0+92.98	-1.25' L	Wye W/Riser	1422.24	1408.75, 24" PVC NW 1421.06, 6" PVC NE	1408.75, 24" PVC SE	

SANITARY SEWER PIPES

FROM STRUCTURE	TO STRUCTURE	PIPE DIA	Length	PIPE GRADE	START INV	END INV	REMARKS
[redacted]							
CONN 1	WYE 24x6	24" PVC	28 LF	0.05%	1408.77	1408.75	
[redacted]							
CONN 3	MH - 1	8" PVC	37 LF	0.40%	1409.31	1409.16	(1)
CONN 4	WYE 24x6	6" PVC	25 LF	2.06%	1421.58	1421.06	(1)
CONN 5	MH - 1	8" PVC	25 LF	0.40%	1409.82	1409.72	(1)
MH - 1	CONN 2	24" PVC	142 LF	0.10%	1408.71	1408.57	
WYE 24x6	MH - 1	24" PVC	5 LF	0.08%	1408.75	1408.75	

(1) FIELD VERIFY EXISTING SANITARY PIPE GRADE AND ELEVATION

Paved Drives

Location		Address	Back of Curb Length	Length at tie in	Width	Area	Special Compaction	Modified Subbase	PCC Area	Remarks
Station	Side		FT	FT	FT	SF	SY	CY	SY	
2+25	LT	E. RICHLAND ST.	350.3	350.3	4.0	1401	156	26	155.7	
2+66	RT	E. RICHLAND ST.	50.0	45.9	4.0	192	21	4	21.3	
3+83	RT	E. RICHLAND ST.	41.0	38.6	14.8	590	66	11	65.6	
						TOTALS:	243	40	243	

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BEG. DRIVE
STA:0+49.73
15.50' L

CL INDUSTRY STREET
STA:1+16.26
0.00'

CL DRIVE
STA:2+24.86
15.50' L

350.3'

END DRIVE
STA:4+00.00
15.50' L

E. RICHLAND ST.
(CONCRETE)

BEGIN PAVING
STA. 0+49.8

BEG. RADIUS
STA:0+50.76
15.50' R
STA:0+78.80
24.29' R, END RADIUS
MATCH TO EXISTING

INDUSTRY ST.
(GRAVEL)

STA:1+53.63
24.17' R, BEG. RADIUS
MATCH TO EXISTING

BEG. DRIVE
STA:2+41.02
15.50' R

END RADIUS
STA:1+81.76
15.50' R

CL DRIVE
STA:2+65.76
19.50' R

END DRIVE
STA:2+91.02
15.50' R

BEG. DRIVE
STA:3+62.30
15.50' R

CL DRIVE
STA:3+82.80
15.50' R

END DRIVE
STA:4+03.30
15.50' R

END FULL C&G,
BEG. 5' CURB TAPER
TO NO CURB
STA:5+70.00
15.50' L

END C&G
BEG. 1:25 TAPER
STA:5+75.00
15.50' L

END TAPER
STA:6+62.50
12.00' L

MATCH TO EXIST. CONC.
STA:0+65.19
12.10' R

STA:0+69.38
12.06' R

BEG. RADIUS
STA:8+00.48
17.94' L

STA:7+66.07
14.50' L

STA:1+11.47
56.07' R
END RADIUS

STA:7+66.07
12.00' L

END FULL C&G,
BEG. 5' CURB TAPER
TO NO CURB
STA:5+70.00
15.50' R

END C&G
BEG. 1:25 TAPER
STA:5+75.00
15.50' R

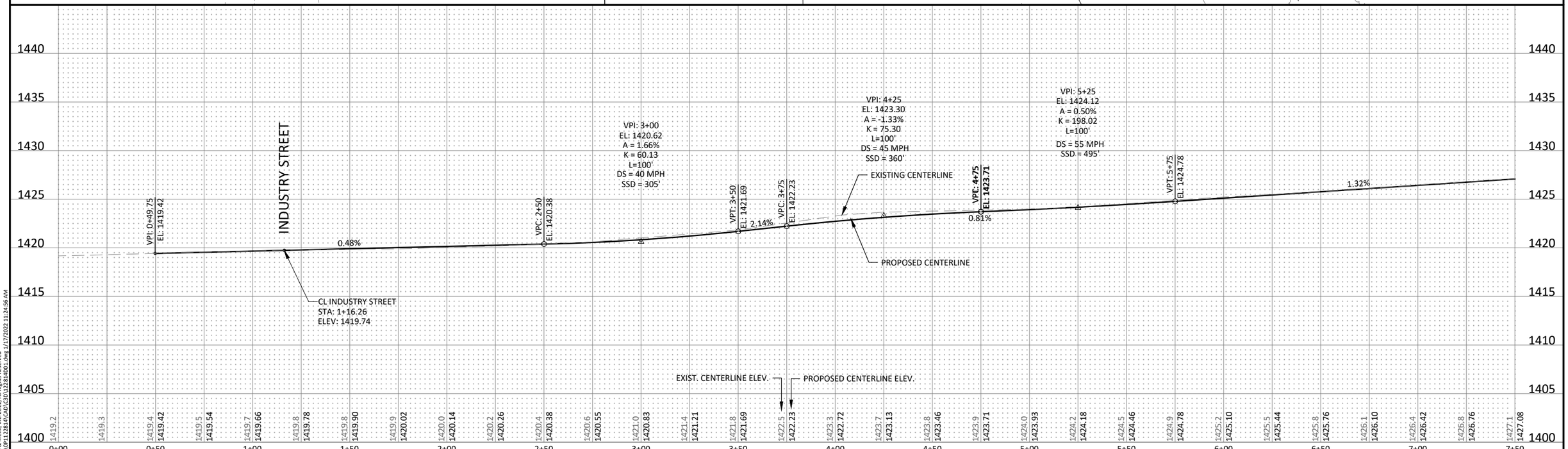
END TAPER
STA:6+62.50
12.00' R

STA:7+78.57
12.00' R

STA:7+78.57
14.50' R

HORZ. SCALE 0 25 50 FEET

VERT. SCALE 0 5 10 FEET



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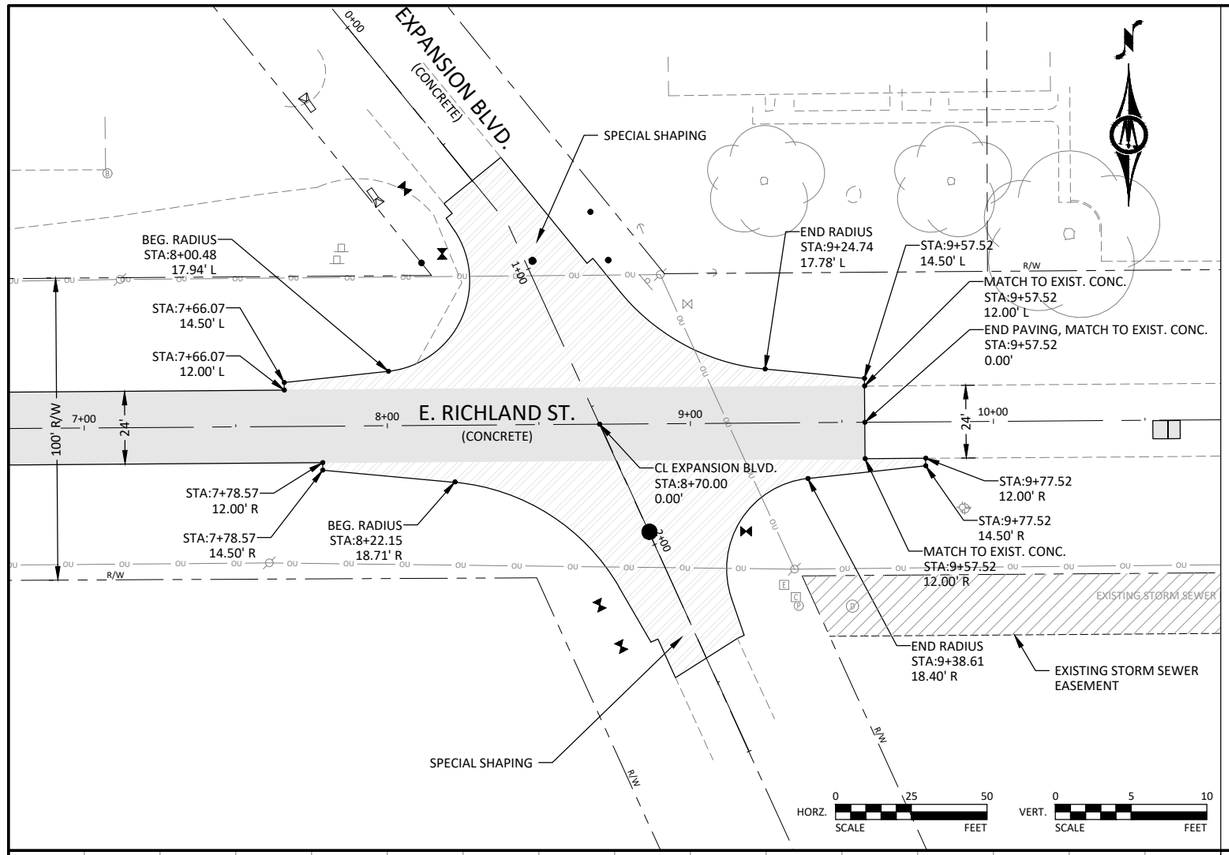
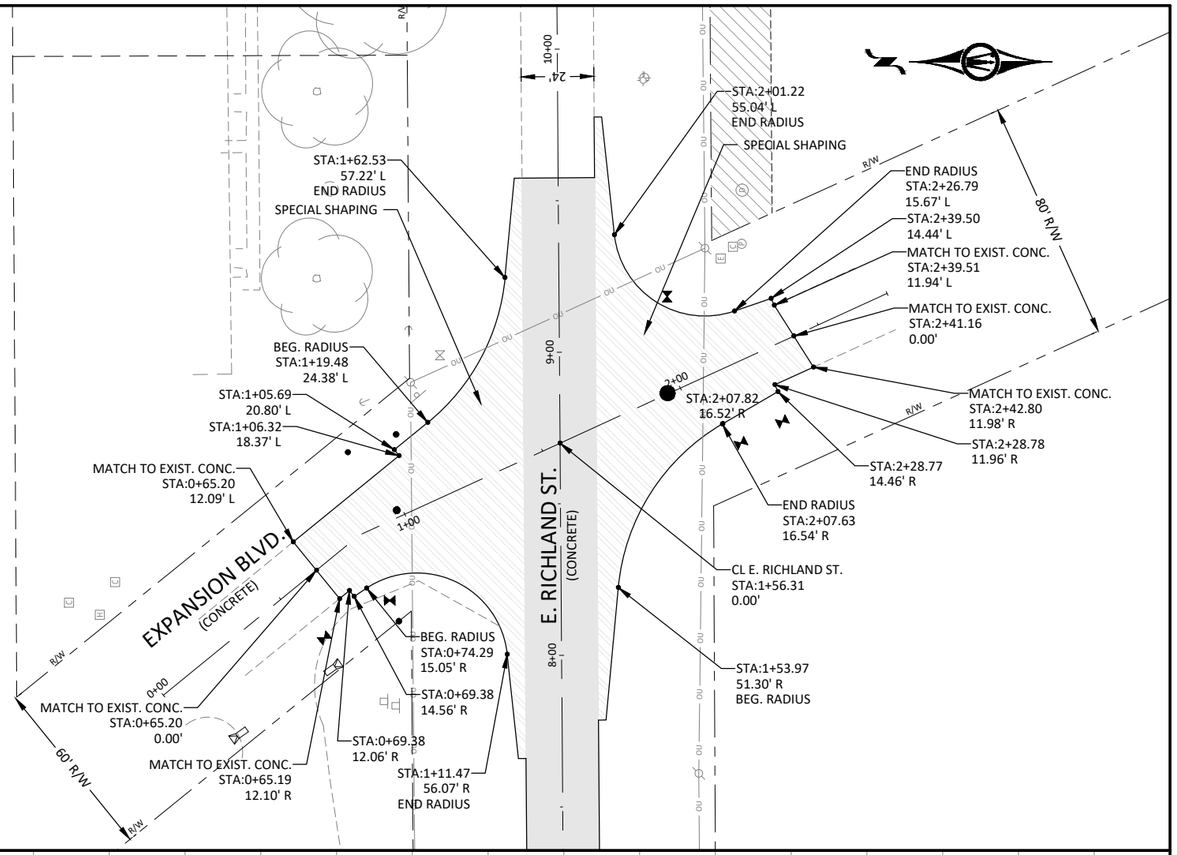
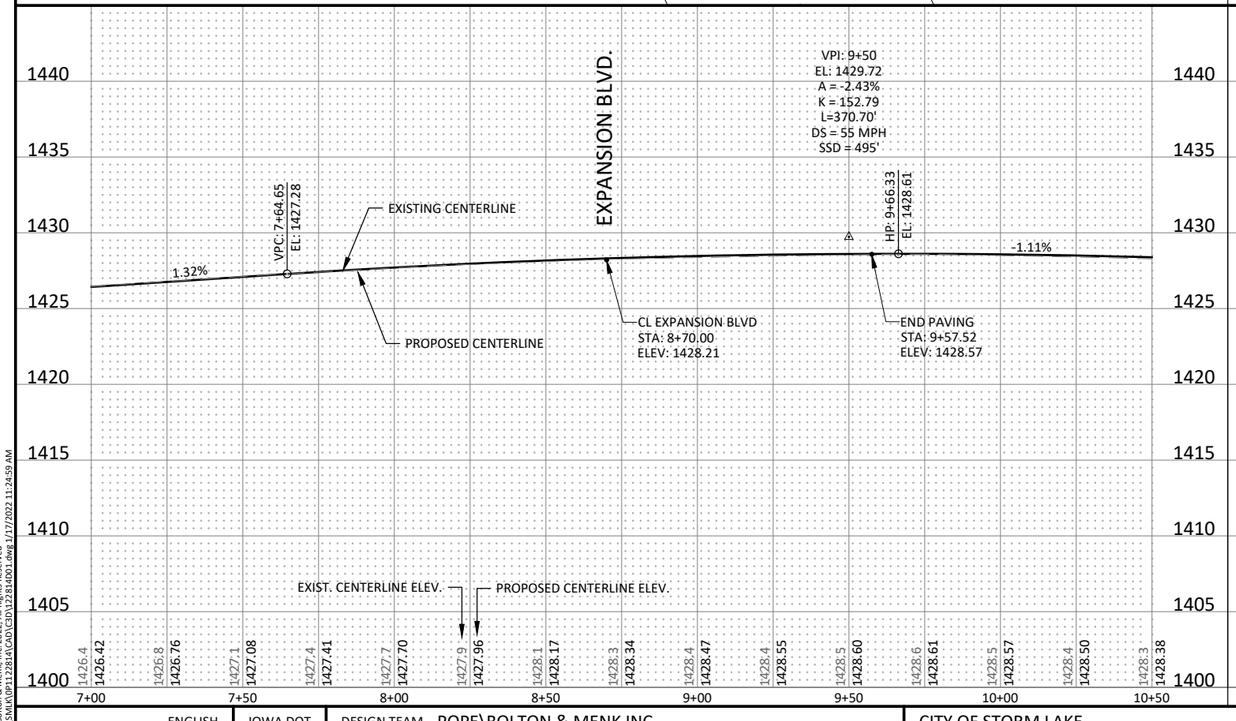
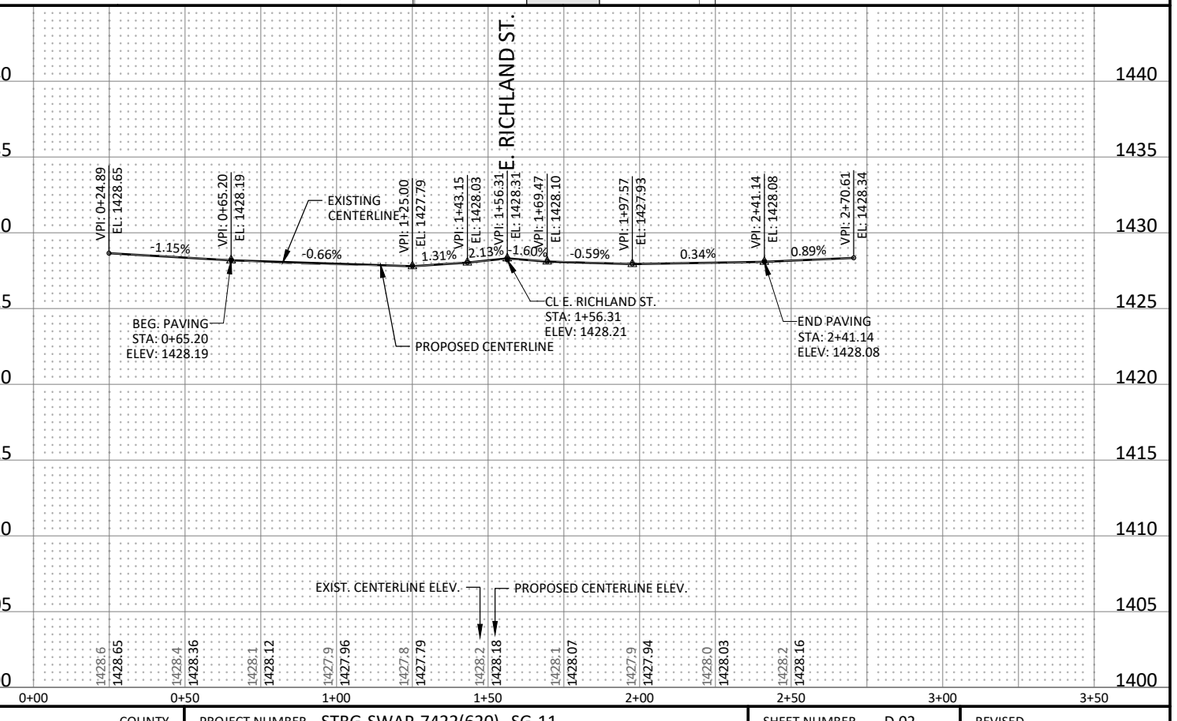
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER D.01	REVISED









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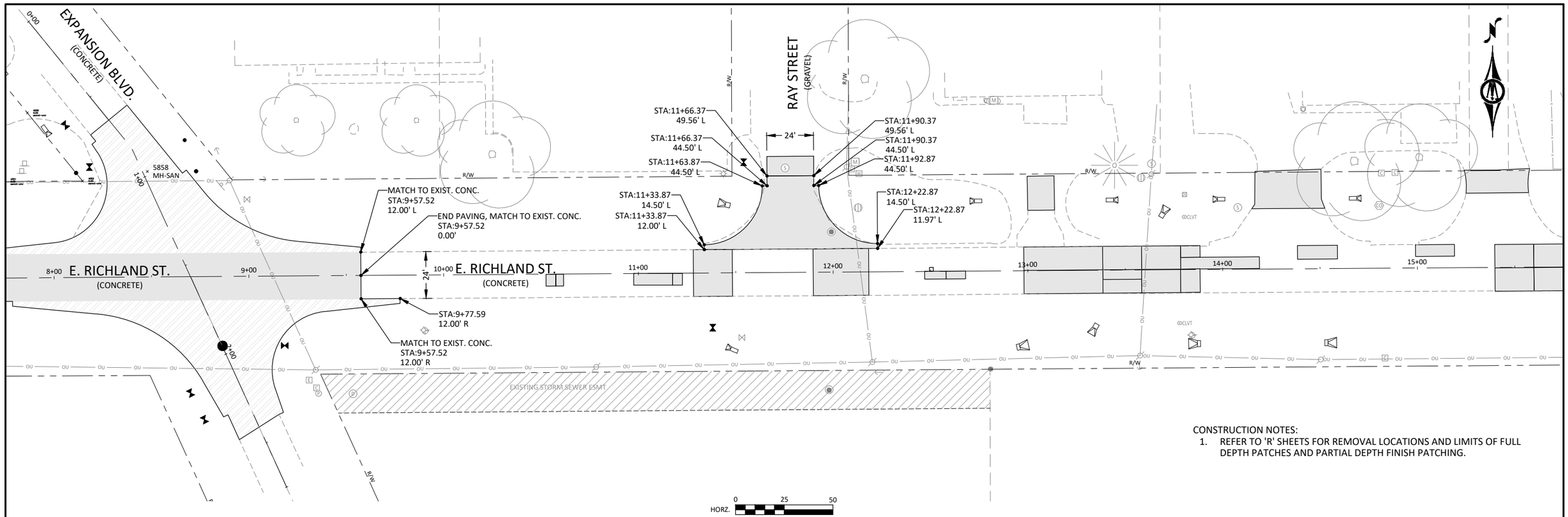
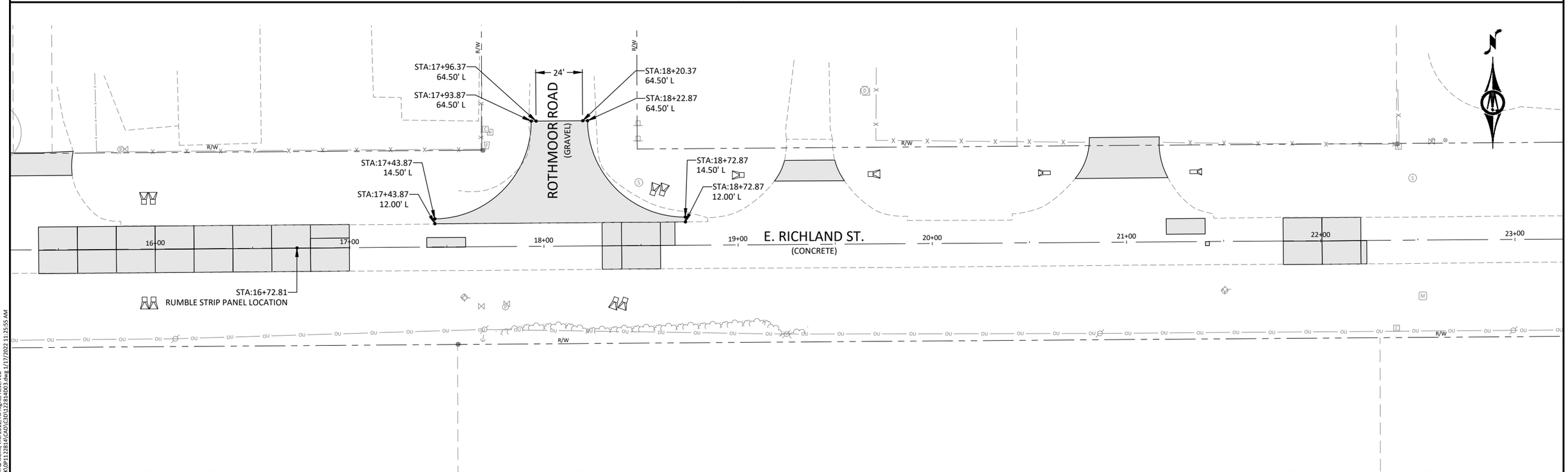
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER D.02	REVISED



CONSTRUCTION NOTES:

1. REFER TO 'R' SHEETS FOR REMOVAL LOCATIONS AND LIMITS OF FULL DEPTH PATCHES AND PARTIAL DEPTH FINISH PATCHING.



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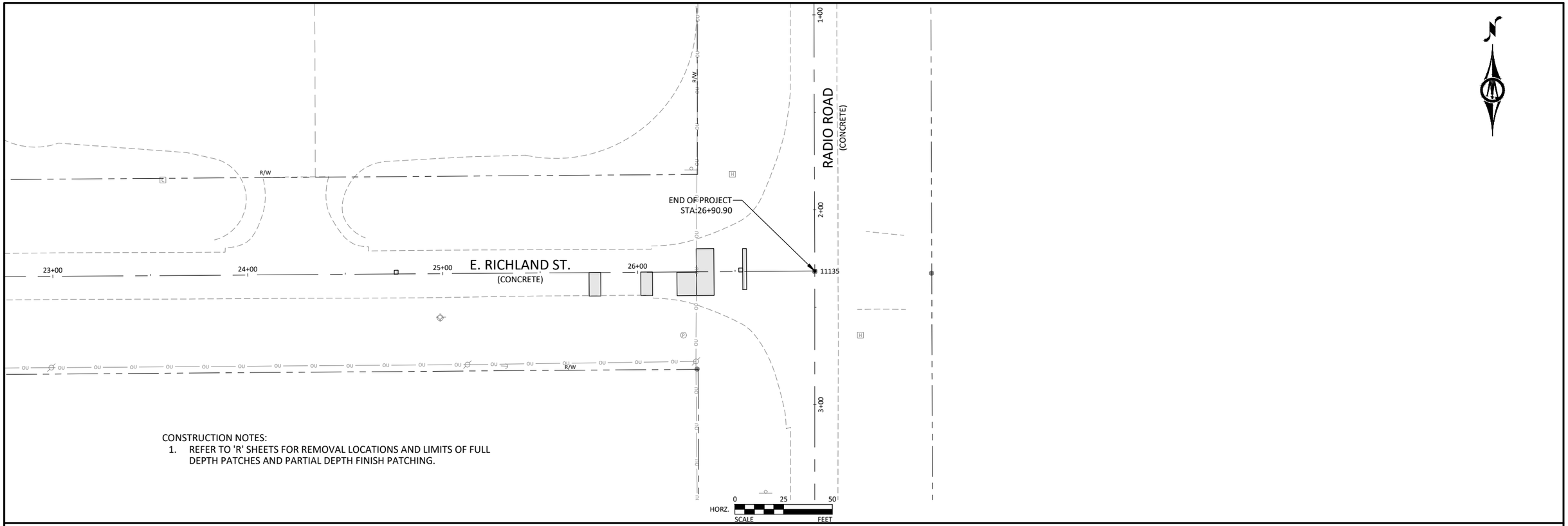
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER D.03	REVISED



CONSTRUCTION NOTES:

1. REFER TO 'R' SHEETS FOR REMOVAL LOCATIONS AND LIMITS OF FULL DEPTH PATCHES AND PARTIAL DEPTH FINISH PATCHING.

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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER D.04	REVISED

STA:301+43.63
BEGING OPEN DITCH GRADING

STA:307+16.84
END OPEN DITCH GRADING

CLASS 'E' RIP RAP
(SEE SHT RR.05)

EXIST. 30" APRON,
OUTLET FL = 1413.17

PROTECT UTILITY POLE

PROTECT UTILITY POLE

PROTECT UTILITY POLE

100' ABANDONED RR R/W

Bil Mar Foods Of Iowa Inc
315 VILAS
PIN: 1402401004

Howie Paul E, Howie Eileen E
1520 RICHLAND
PIN: 1402401003

Howie Paul E, Howie Eileen E
1520 RICHLAND
PIN: 1402401003

Wireless Network Mgmt Inc
308 EXPANSION
PIN: 1402401017

Miller Construction Properties LLC
316 EXPANSION
PIN: 1402403003

Storm Lake City Of
RICHLAND
PIN: 1402254002

Miller Construction & Company
320 EXPANSION
PIN: 1402403005

E. RICHLAND ST.

HORZ. SCALE 0 25 50 FEET

VERT. SCALE 0 5 10 FEET

EXISTING SURFACE PROFILE

PROPOSED OPEN DITCH PROFILE

VPI: 300+43.63
EL: 1413.54

BEGIN OPEN DITCH GRADING

0.11%

VPI: 307+22.94
EL: 1418.82

6.42%

VPI: 307+49.10
EL: 1420.51

2.42%

END OPEN DITCH GRADING

VPI: 307+16.84
EL: 1414.28

42" STORM SEWER OUTLET
(SEE 'M' SHEETS)

EXIST. SURFACE ELEV.

PROPOSED OPEN DITCH ELEV.

300+00	300+50	301+00	301+50	302+00	302+50	303+00	303+50	304+00	304+50	305+00	305+50	306+00	306+50	307+00	307+50
1413.5	1413.6	1413.9	1413.5	1414.1	1414.3	1414.5	1414.8	1414.7	1414.9	1415.0	1415.2	1415.7	1415.9	1416.0	1416.2	1416.6	1416.8	1417.0	1417.1	1417.3	1417.6	1417.9	1418.1	1418.4	1418.6	1418.9	1420.6
1413.4	1413.54	1413.57	1413.60	1413.63	1413.66	1413.68	1413.71	1413.74	1413.77	1413.79	1413.82	1413.85	1413.88	1413.91	1413.93	1413.96	1413.99	1414.02	1414.04	1414.07	1414.10	1414.13	1414.16	1414.18	1414.21	1414.24	1414.27	1418.96

ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER ED.01	REVISED

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Storm Lake City Of
RICHLAND
PIN: 1402254002

STA. 0+00 BEGIN ROADWAY DITCH GRADING (SEE PROFILE BELOW)

G F Land Partnership
412 EXPANSION
PIN: 1402254008

NORTH ROADWAY DITCH PROPOSED GRADING SEE PROFILE BELOW

STA:3+69.63
END ROADWAY DITCH GRADING
(SEE PROFILE BELOW)

EXPANSION BLVD.

Buena Vista County
1709 & 1711 RICHLAND
PIN: 1402257006

5858
MH-SAN

E. RICHLAND STREET

EXISTING STORM SEWER ESMT

Howie Paul E, Howie Eileen E
1516 RICHLAND
PIN: 1402401015

Howie Paul E, Howie Eileen E
1520 RICHLAND
PIN: 1402401003

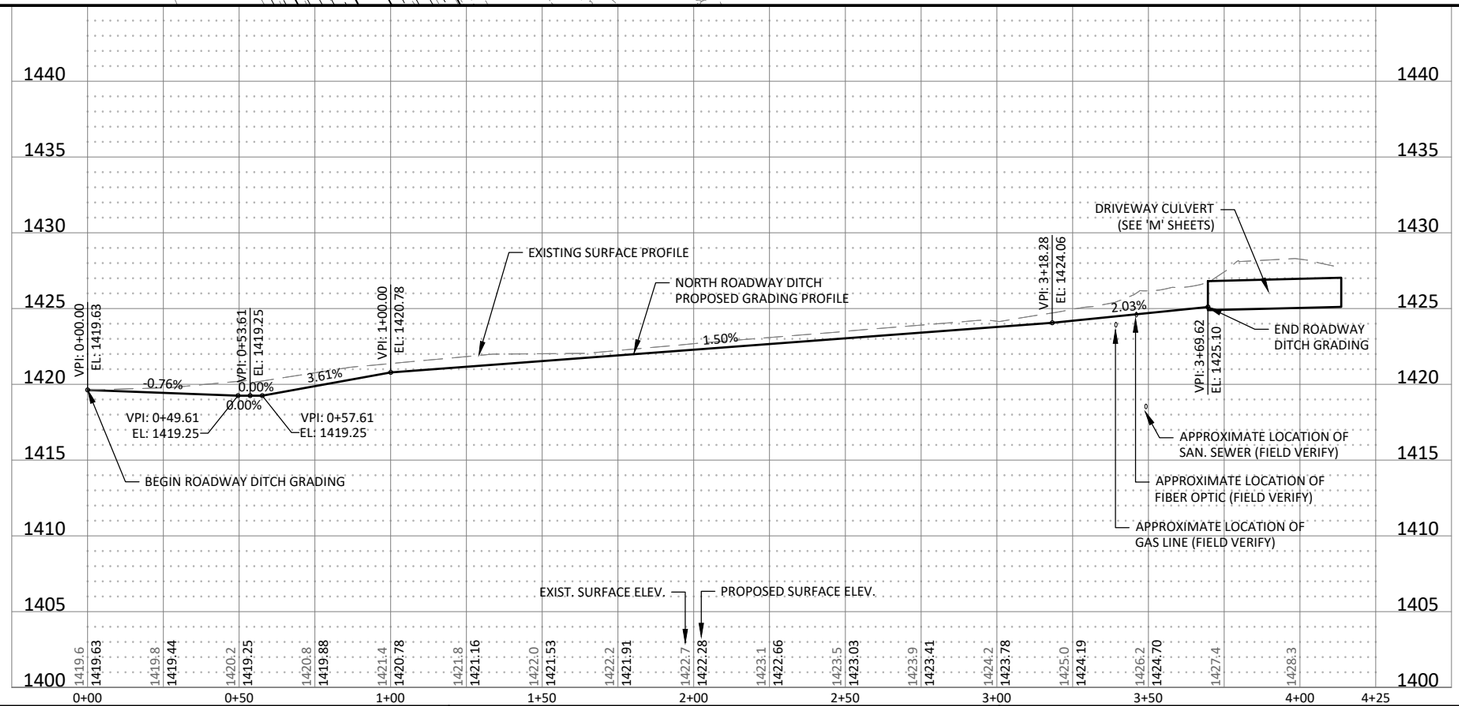
Storm Lake City Of
RICHLAND
PIN: 1402254002

Miller Brian E
324 EXPANSION
PIN: 1402403004

Bodholdt Steven D
1806 E Richland
PIN: 1402402001

HORZ. SCALE 0 25 50 FEET

VERT. SCALE 0 5 10 FEET



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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER ED.02	REVISED

STA:8+28.07
BEGIN NORTH ROADWAY DITCH GRADING
(SEE PROFILE BELOW)

Buena Vista County
1709 & 711 RICHLAND
PIN: 1402257006

Liberty Food Service Inc
1800 RICHLAND
PIN: 1402258015

Bodholdt Steven D
1806 RICHLAND
PIN: 1402276010

NORTH ROADWAY DITCH
PROPOSED GRADING SEE
PROFILE BELOW

RAY STREET

E. RICHLAND STREET

EXPANSION BLVD.

EXISTING STORM SEWER ESMT

Bodholdt Steven D
1806 E Richland
PIN: 1402402001

Bodholdt Steven D
1806 E Richland
PIN: 1402402001

Bodholdt Steven D
1806 E Richland
PIN: 1402426001

HORZ. SCALE 0 25 50 FEET
VERT. SCALE 0 5 10 FEET

NORTH ROADWAY DITCH PROFILE

RAY STREET

EXISTING SURFACE PROFILE
NORTH ROADWAY DITCH
PROPOSED GRADING PROFILE
BEGIN ROADWAY DITCH GRADING
PROPOSED WATER MAIN
STORM SEWER, TYP.
(SEE 'M' SHEETS)
DRIVEWAY CULVERT, TYP.
(SEE 'M' SHEETS)

VPI: 9+15.00 EL: 1426.65
VPI: 11+25.00 EL: 1423.70
VPI: 11+41.40 EL: 1423.43
VPI: 11+78.37 EL: 1427.15
VPI: 11+94.18 EL: 1426.82
VPI: 11+99.05 EL: 1426.60
VPI: 12+26.92 EL: 1421.96
VPI: 12+70.50 EL: 1421.72
VPI: 13+46.50 EL: 1420.35
VPI: 13+75.00 EL: 1419.75
VPI: 13+95.32 EL: 1420.18
VPI: 14+71.32 EL: 1420.27
VPI: 14+94.32 EL: 1420.35
VPI: 15+21.31 EL: 1424.85
VPI: 15+61.24 EL: 1424.55

-1.41% -1.66% -2.07% -4.53% -16.67% -0.55% -2.11% 2.12% 0.35% 16.67% -16.67%

EXIST. SURFACE ELEV. PROPOSED SURFACE ELEV.

8+25	8+50	9+00	9+50	10+00	10+50	11+00	11+50
1426.7	1426.8	1426.7	1426.7 / 1426.51	1426.7 / 1426.16	1426.8 / 1425.81	1426.7 / 1425.46	1426.5 / 1425.11
12+00	12+50	13+00	13+50	14+00	14+50	15+00	15+50	15+75
1426.2 / 1424.76	1425.8 / 1424.41	1425.5 / 1424.05	1425.0 / 1423.70	1425.6	1427.1	1425.3 / 1426.45	1422.7 / 1422.28	1422.5 / 1421.83	1424.1	1426.1	1425.2	1422.1 / 1420.28	1421.6 / 1419.75	1421.2	1424.7	1424.7	1421.4 / 1420.28	1421.7 / 1421.30	1424.8	1424.7	1422.0 / 1422.26

ENGLISH	IOWA DOT	DESIGN TEAM	POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER	STBG-SWAP-7422(620)--SG-11	SHEET NUMBER	ED.03	REVISED
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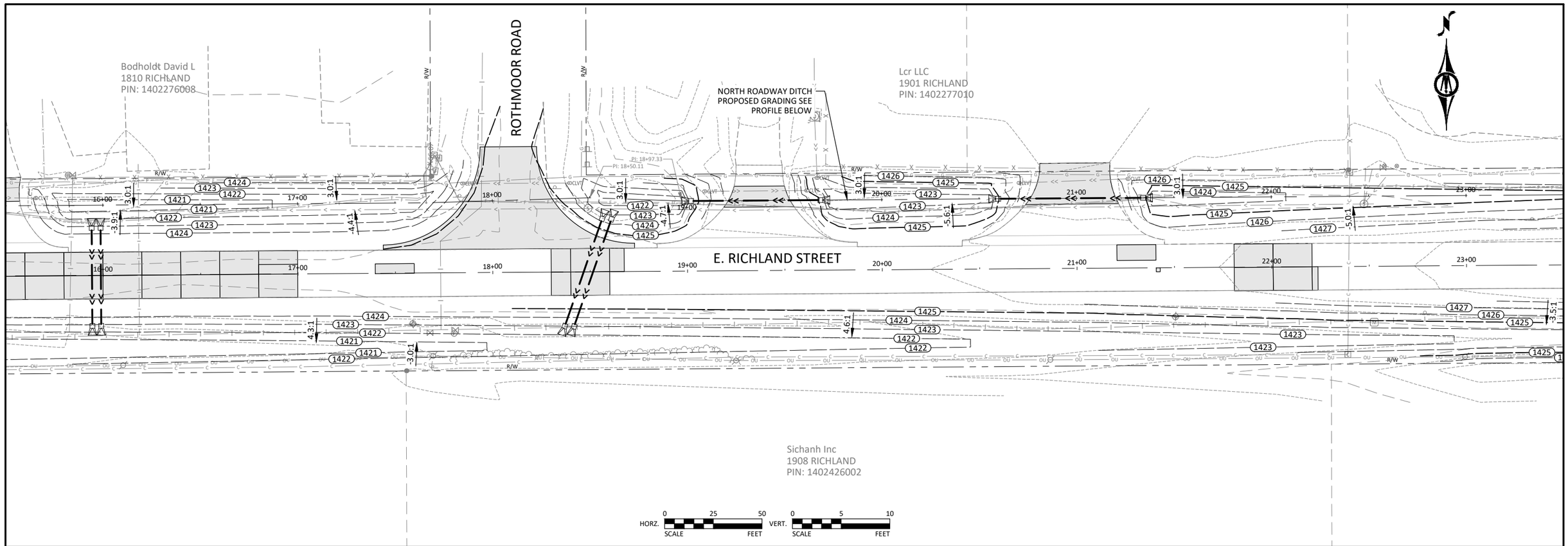

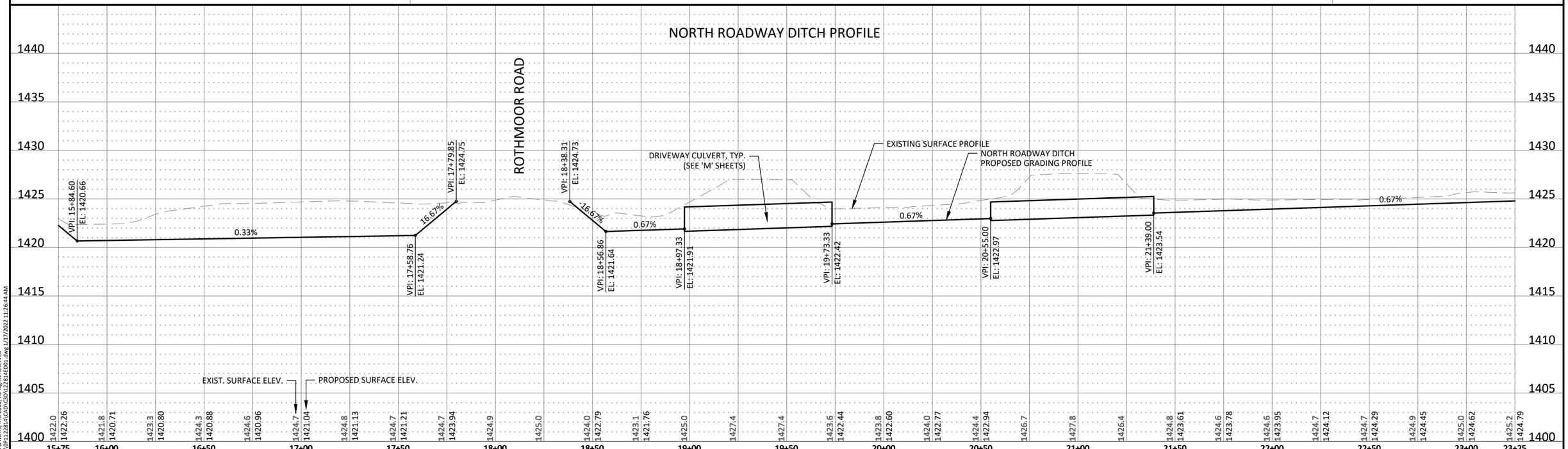

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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER ED.04	REVISED

Buena Vista County
1913 RICHLAND
PIN: 1402277008

STA:26+41.82
END NORTH ROADWAY DITCH GRADING
(SEE PROFILE BELOW)

NORTH ROADWAY DITCH
PROPOSED GRADING SEE
PROFILE BELOW

RADIO ROAD

E. RICHLAND STREET

Sichanh Inc
PIN: 1402426006

HORZ. SCALE 0 25 50 FEET
VERT. SCALE 0 5 10 FEET

NORTH ROADWAY DITCH PROFILE

VPI: 23+99.19
EL: 1427.86
VPI: 24+48.95
EL: 1427.85
VPI: 23+83.16
EL: 1425.18
VPI: 24+62.34
EL: 1425.62
VPI: 26+41.82
EL: 1424.29
-16.67%
-16.67%
-0.74%
EXISTING SURFACE PROFILE
NORTH ROADWAY DITCH
PROPOSED GRADING PROFILE
END ROADWAY DITCH GRADING
EXIST. SURFACE ELEV.
PROPOSED SURFACE ELEV.

23+25	23+50	24+00	24+50	25+00	25+50	26+00	26+50	27+00	27+50	28+00	28+50	29+00	29+50	30+00	30+50	30+75
1425.2	1425.4	1425.7	1427.9	1428.1	1427.8	1426.2	1425.8	1425.4	1425.0	1425.1	1425.2	1425.2				
1424.79	1424.96	1425.13			1427.68	1425.53	1425.34	1425.16	1424.97	1424.78	1424.60	1424.41				

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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER ED.05	REVISED

Storm Lake City Of
RICHLAND
PIN: 1402254002

G F Land Partnership
412 EXPANSION
PIN: 1402254008

Buena Vista County
1709 & 1711 RICHLAND
PIN: 1402257006

EXPANSION BLVD.

E. RICHLAND STREET

5858
MH-SAN

EXISTING STORM SEWER ESMT

Howie Paul E, Howie Eileen E
1516 RICHLAND
PIN: 1402401015

Howie Paul E, Howie Eileen E
1520 RICHLAND
PIN: 1402401003

Storm Lake City Of
RICHLAND
PIN: 1402254002

Miller Brian E
324 EXPANSION
PIN: 1402403004

Bodholdt Steven D
1806 E Richland
PIN: 1402402001

STA:0+07.87
BEGIN SOUTH DITCH GRADING
(SEE PROFILE BELOW)

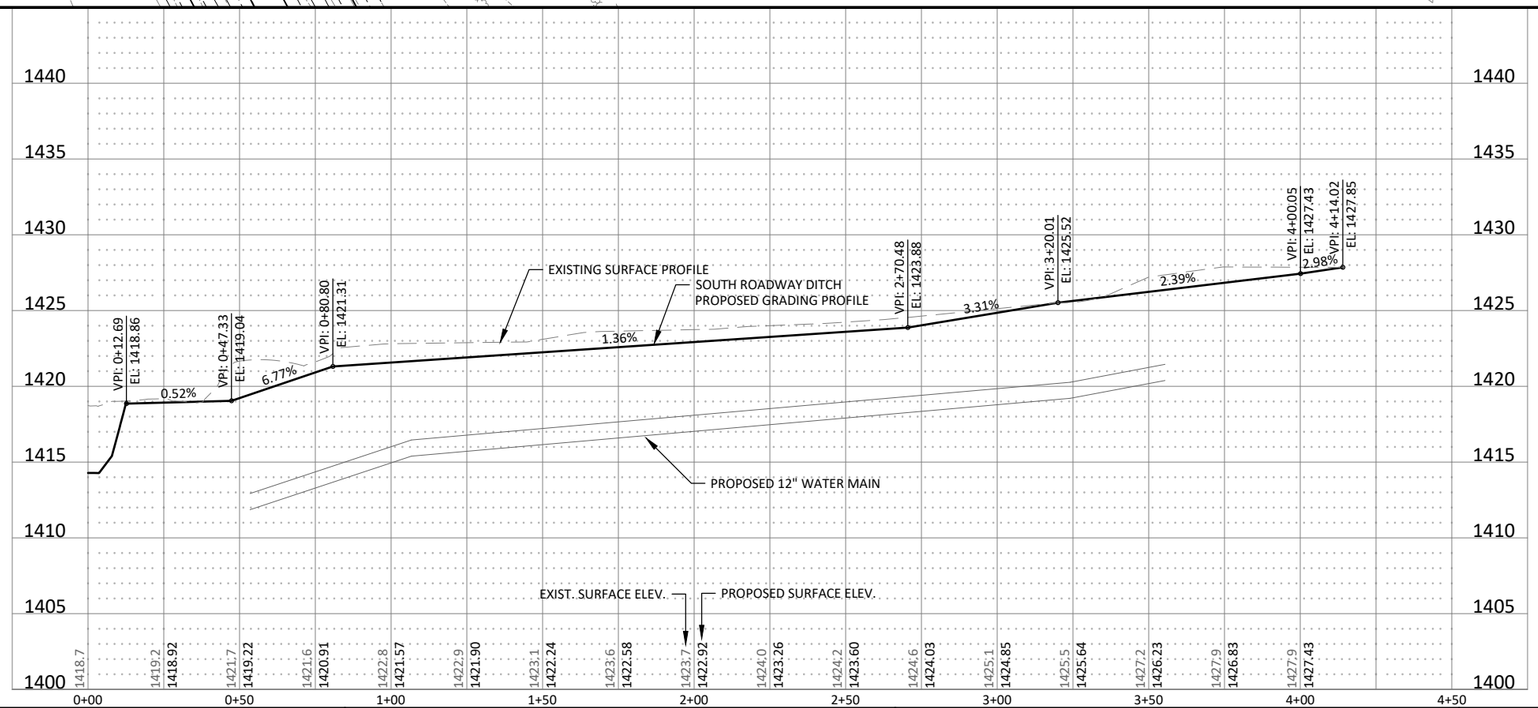
PROPOSED OPEN DITCH (SEE SHEET ED.01)

SOUTH ROADWAY DITCH
PROPOSED GRADING SEE
PROFILE BELOW

STA:4+14.02
END SOUTH DITCH GRADING
(SEE PROFILE BELOW)

HORZ. SCALE 0 25 50 FEET

VERT. SCALE 0 5 10 FEET



ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER ED.06	REVISED

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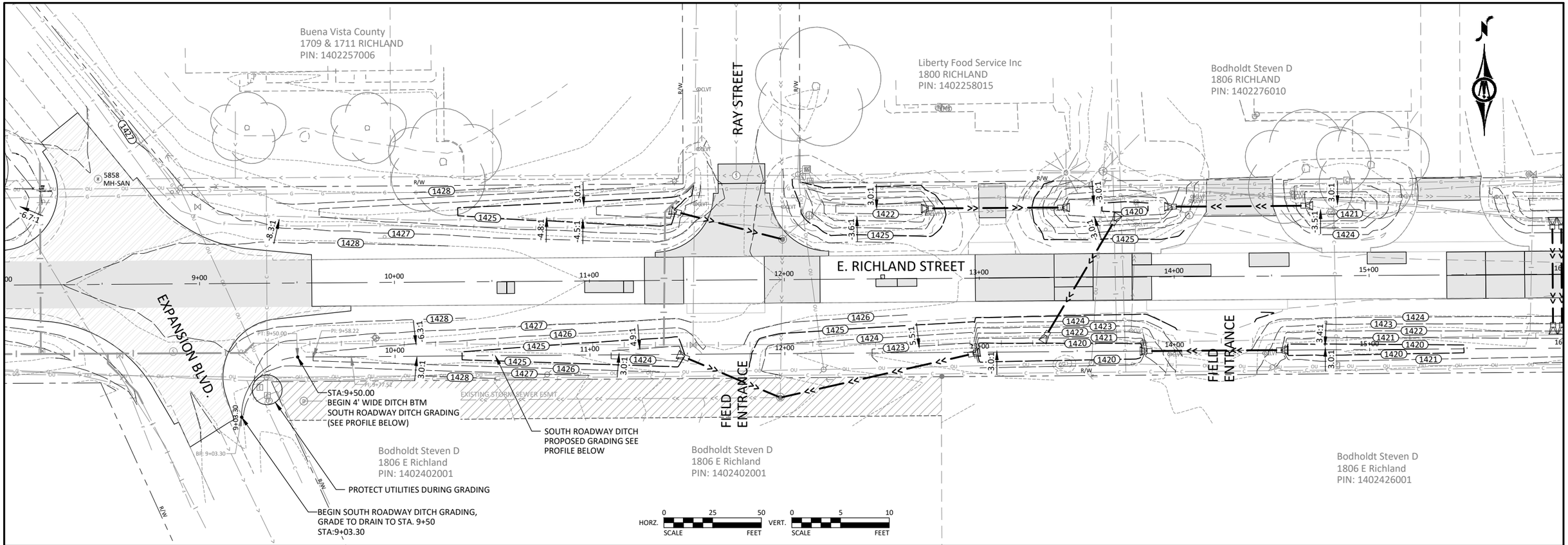

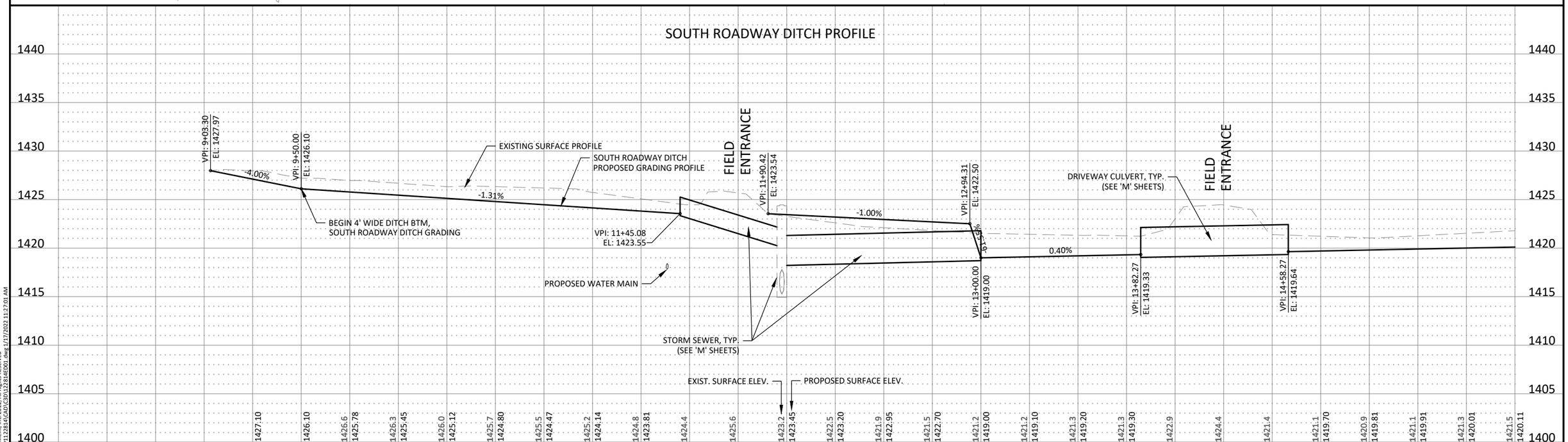

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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER ED.07	REVISED

Bodholdt David L
1810 RICHLAND
PIN: 1402276008

ROTHMOOR ROAD

Lcr LLC
1901 RICHLAND
PIN: 1402277010

E. RICHLAND STREET

SOUTH ROADWAY DITCH
PROPOSED GRADING SEE
PROFILE BELOW

Sichanh Inc
1908 RICHLAND
PIN: 1402426002

HORZ. SCALE 0 25 50 FEET
VERT. SCALE 0 5 10 FEET

SOUTH ROADWAY DITCH PROFILE

EXISTING SURFACE PROFILE
SOUTH ROADWAY DITCH
PROPOSED GRADING PROFILE
0.40%
EXIST. SURFACE ELEV.
PROPOSED SURFACE ELEV.

15+75	16+00	16+50	17+00	17+50	18+00	18+50	19+00	19+50	20+00	20+50	21+00	21+50	22+00	22+50	23+00	23+25
1421.5	1421.6	1421.6	1421.7	1421.8	1421.8	1421.9	1422.0	1422.1	1422.4	1422.5	1422.6	1422.7	1422.7	1422.7	1422.6	1422.6	1422.5	1422.5	1422.4	1422.5	1422.7	1422.8	1422.9	1423.1	1423.2	1423.4	1423.6	1423.9	1424.0
1420.11	1420.21	1420.31	1420.41	1420.51	1420.61	1420.71	1420.81	1420.91	1421.01	1421.11	1421.21	1421.32	1421.42	1421.52	1421.62	1421.72	1421.82	1421.92	1422.02	1422.12	1422.22	1422.32	1422.42	1422.52	1422.62	1422.72	1422.83	1422.93	1423.03	1423.13

ENGLISH	IOWA DOT	DESIGN TEAM	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER	SHEET NUMBER	REVISED
		POPE\BOLTON & MENK INC			STBG-SWAP-7422(620)--SG-11	ED.08	

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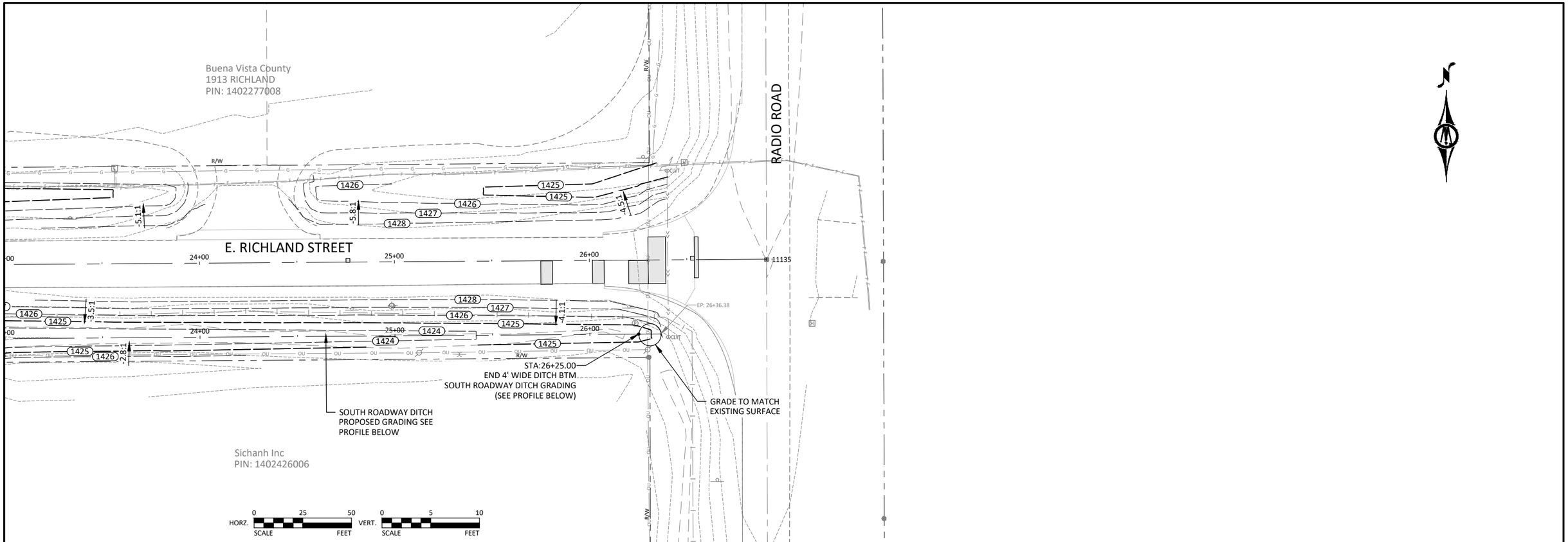

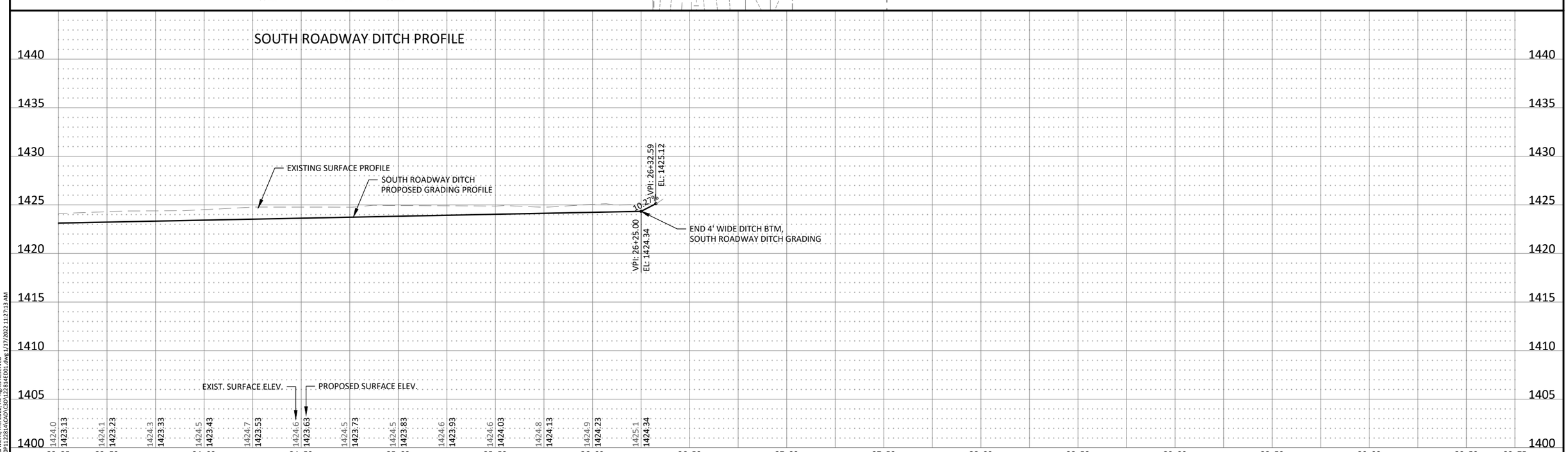

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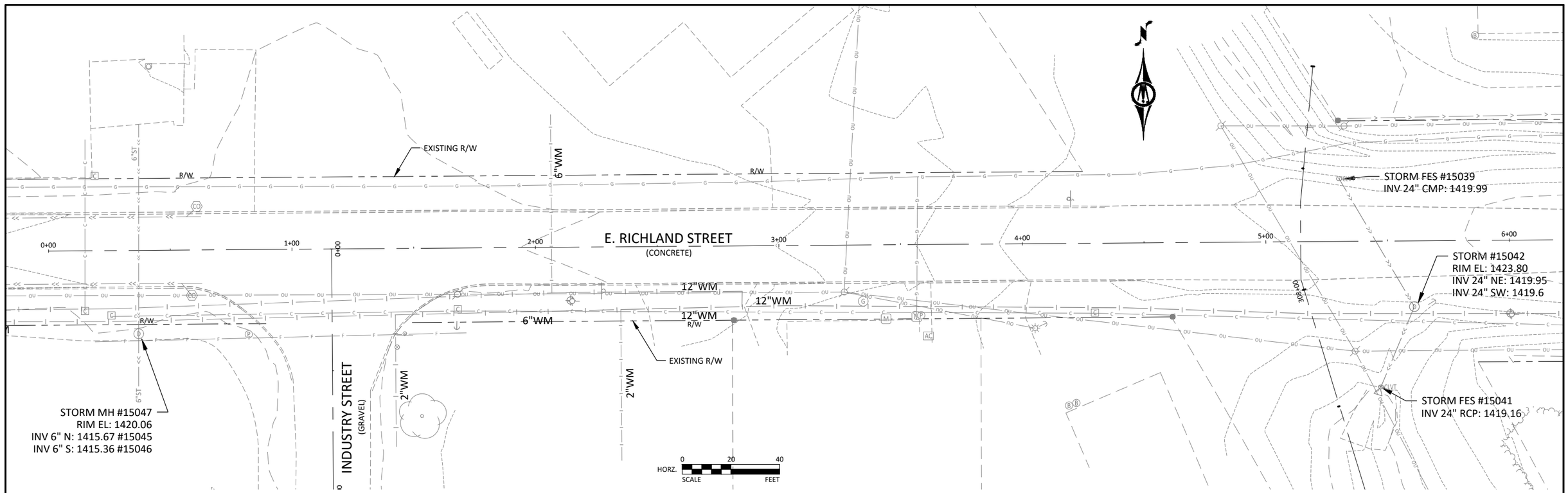
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER ED.09	REVISED



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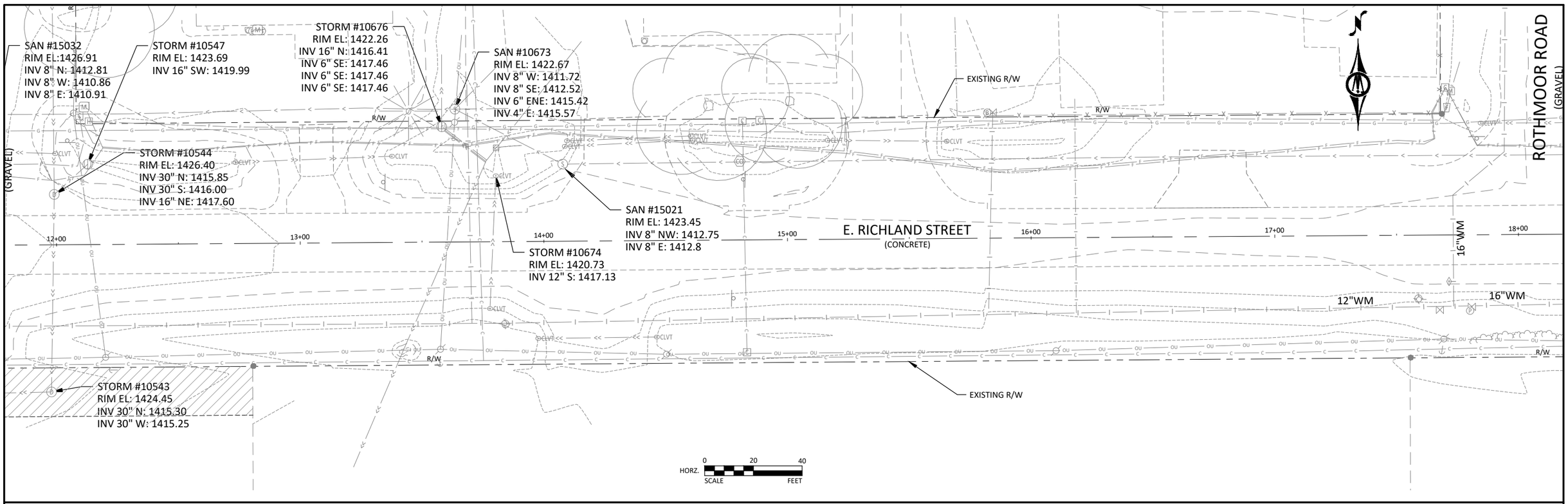
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER G.01	REVISED



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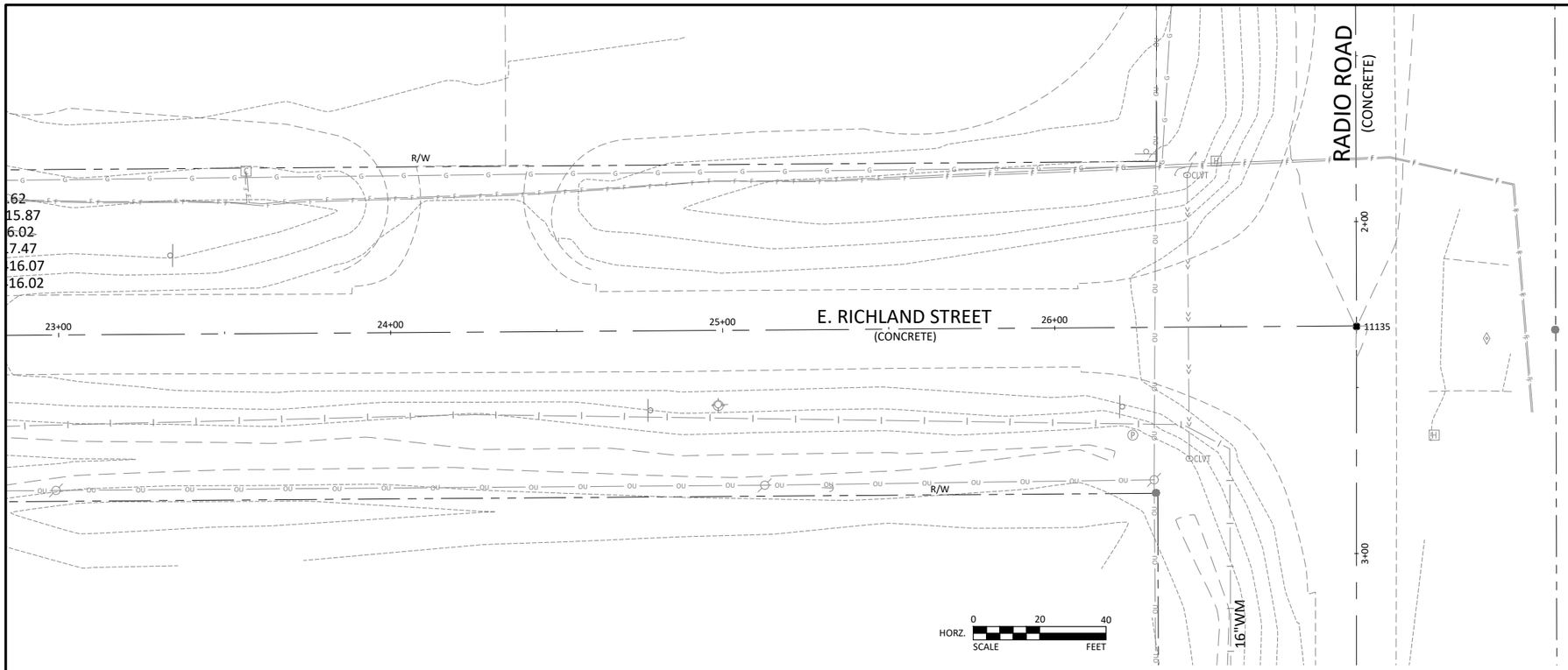
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER G.02	REVISED



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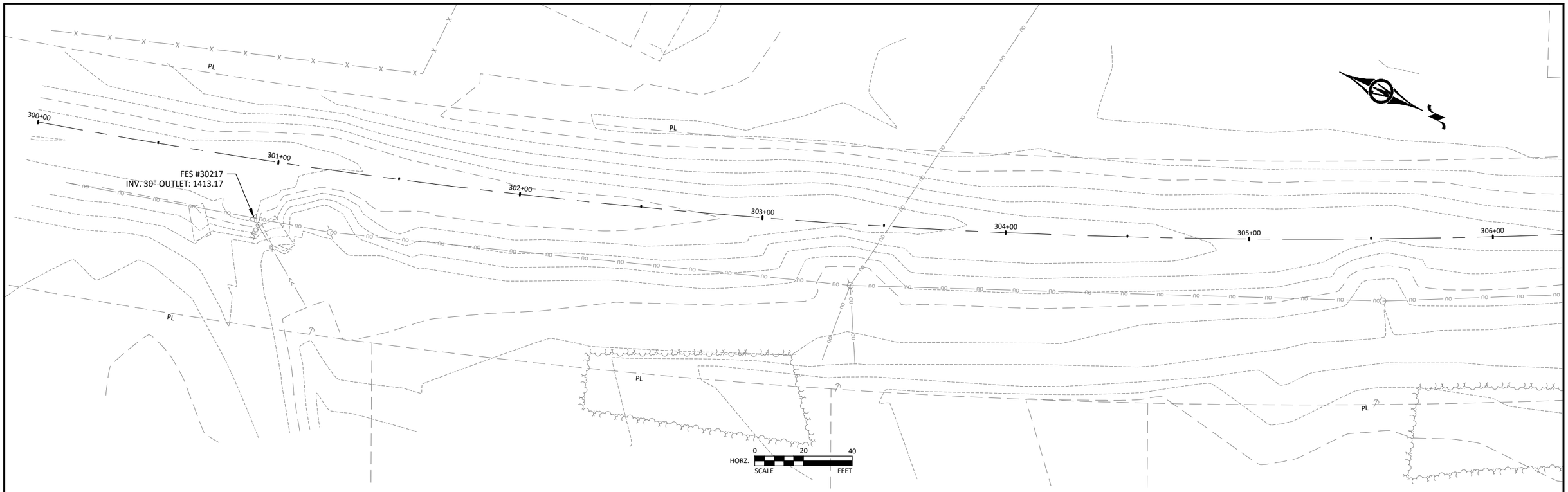

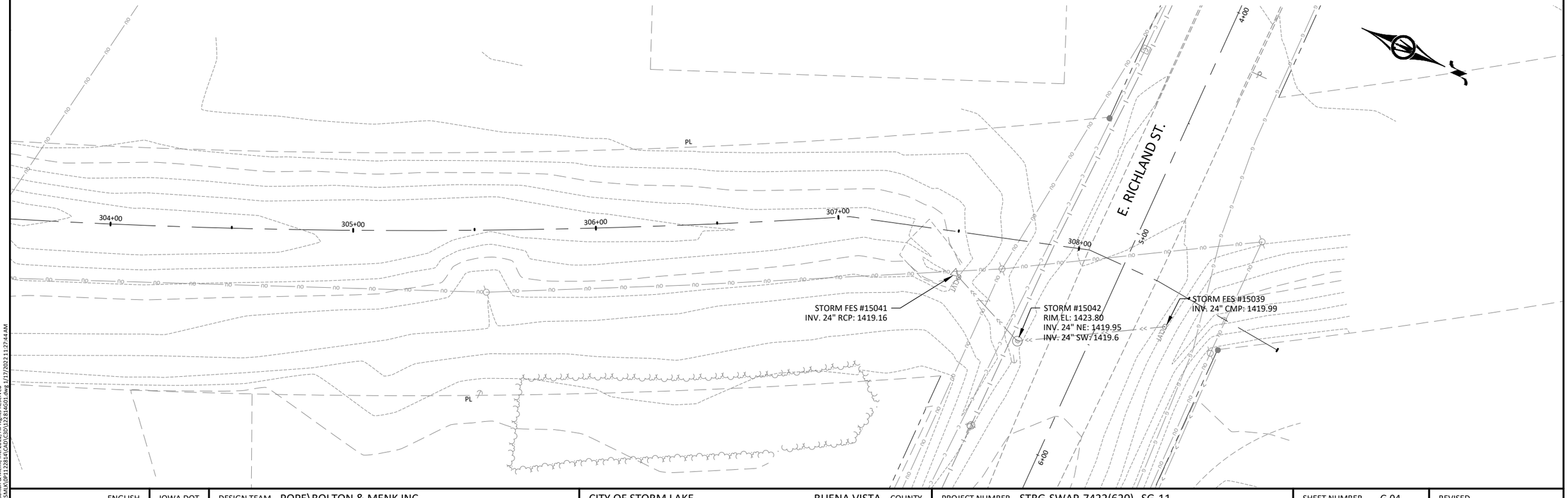

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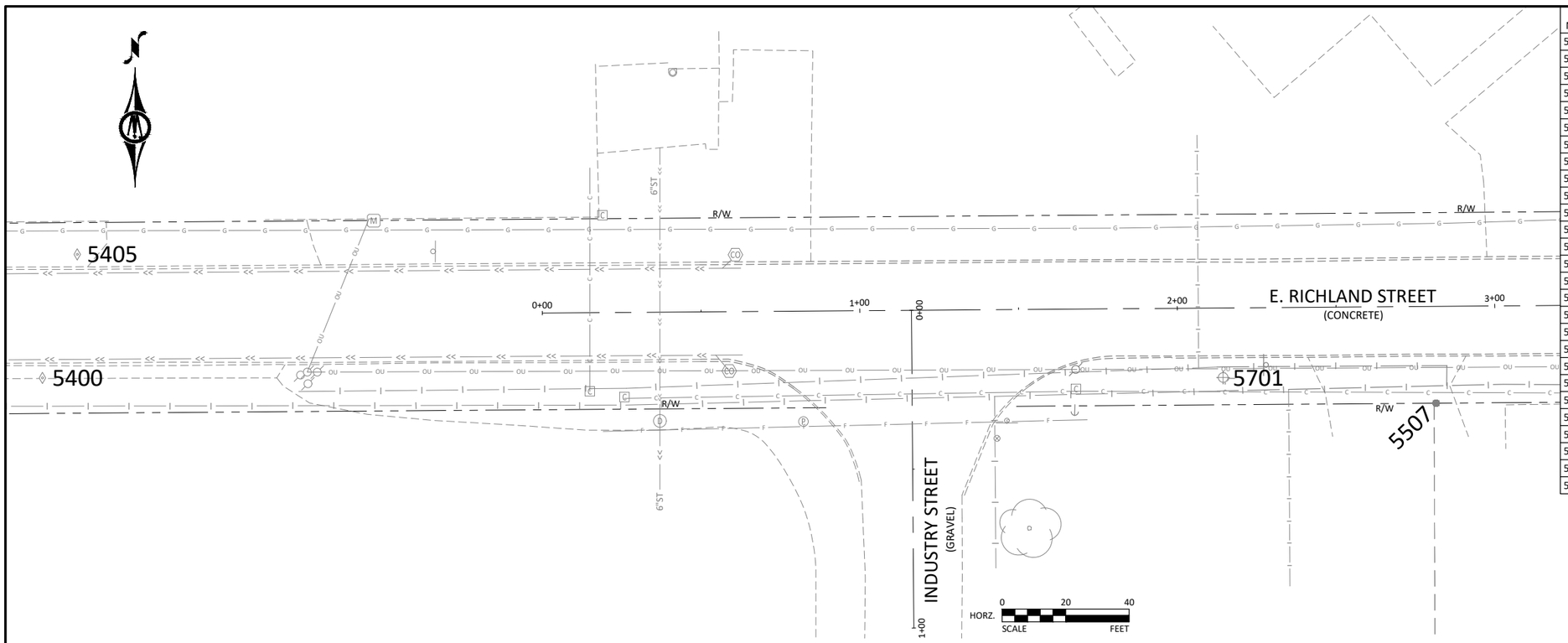
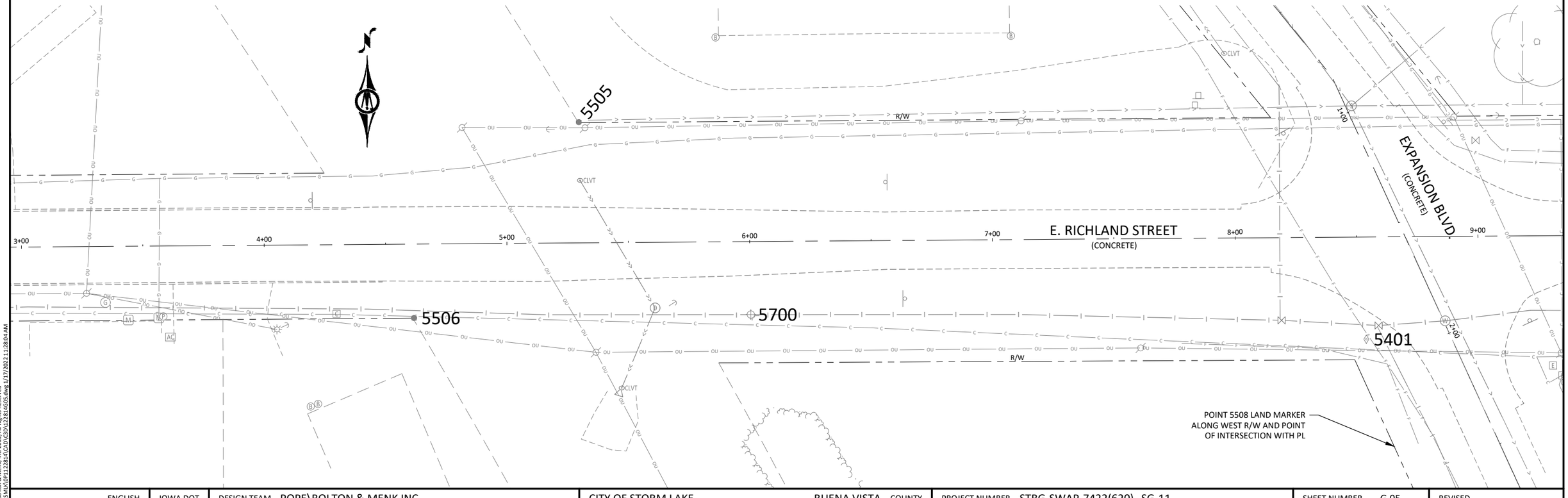
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER G.04	REVISED



POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
5000	8639399.347	14409048.61	1430.069	LEAD PLUG EAST 1/4, SEC. 2-90-73
5400	8639359.742	14406200.32	1418.464	MAG NAIL
5401	8639344.449	14407211.79	1427.87	CONTROL POINT, IRON PIN W/PINK CAP
5402	8639367.731	14407522.3	1427.149	CONTROL POINT, IRON PIN W/PINK CAP
5403	8639373.964	14408129.27	1425.084	CONTROL POINT, IRON PIN W/PINK CAP
5404	8639395.757	14409087.79	1428.263	CONTROL POINT, IRON PIN W/PINK CAP
5405	8639398.637	14406211.29	1418.857	CONTROL POINT, IRON PIN
5500	8639398.391	14409108.45	1428.876	LAND MARKER, REBAR
5501	8639266.428	14409108.9	1427.249	LAND MARKER, REBAR
5502	8639349.207	14408988.23	1425.833	LAND MARKER, REBAR
5503	8639445.936	14408597.2	1426.425	LAND MARKER, REBAR
5504	8639442.684	14408126.3	1424.265	LAND MARKER, REBAR
5505	8639433.815	14406887.38	1424.672	LAND MARKER, REBAR
5506	8639353.177	14406819.52	1423.781	LAND MARKER, REBAR
5507	8639351.792	14406639.3	1421.021	LAND MARKER, REBAR
5508	8639175.437	14407280.22	1426.654	LAND MARKER, REBAR
5509	8639339.286	14407638.57	1422.396	LAND MARKER, REBAR
5510	8638621.036	14407229.96	1418.578	LAND MARKER, W/PINK CAP
5599	8639342.745	14408113.54	1423.484	LAND MARKER, REBAR
5700	8639354.592	14406958.24	1424.88	BENCH MARK, FIRE HYDRANT
5701	8639359.861	14406572.21	1423.587	BENCH MARK, FIRE HYDRANT
5702	8639358.846	14407348.23	1428.794	BENCH MARK, FIRE HYDRANT
5703	8639356.478	14407741.98	1423.17	BENCH MARK, FIRE HYDRANT
5704	8639366.965	14408116.66	1424.763	BENCH MARK, FIRE HYDRANT
5705	8639370.44	14408508.22	1426.328	BENCH MARK, FIRE HYDRANT
5706	8639375.489	14408856.38	1428.285	BENCH MARK, FIRE HYDRANT
5707	8639178.168	14409011.62	1426.319	BENCH MARK, FIRE HYDRANT



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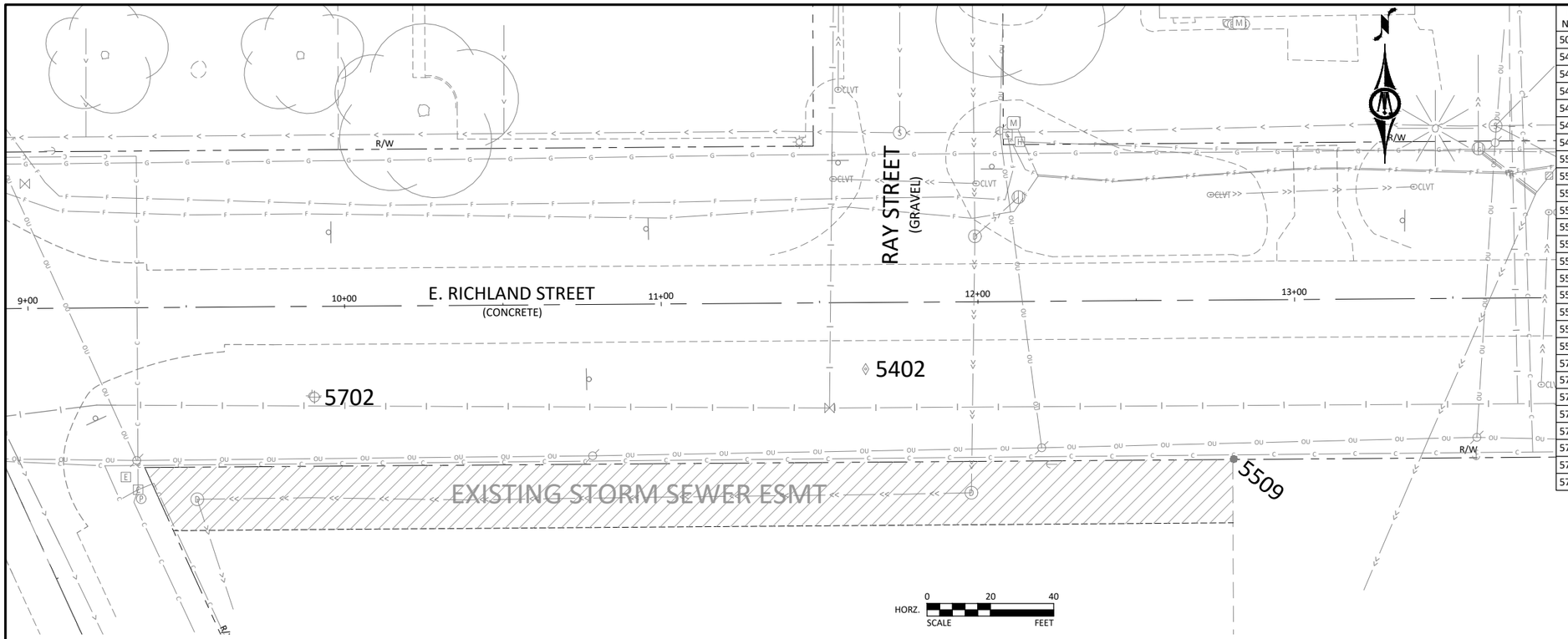
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER G.05	REVISED



POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
5000	8639399.347	14409048.61	1430.069	LEAD PLUG EAST 1/4, SEC. 2-90-73
5400	8639359.742	14406200.32	1418.464	MAG NAIL
5401	8639344.449	14407211.79	1427.87	CONTROL POINT, IRON PIN W/PINK CAP
5402	8639367.731	14407522.3	1427.149	CONTROL POINT, IRON PIN W/PINK CAP
5403	8639373.964	14408129.27	1425.084	CONTROL POINT, IRON PIN W/PINK CAP
5404	8639395.757	14409087.79	1428.263	CONTROL POINT, IRON PIN W/PINK CAP
5405	8639398.637	14406211.29	1418.857	CONTROL POINT, IRON PIN
5500	8639398.391	14409108.45	1428.876	LAND MARKER, REBAR
5501	8639266.428	14409108.9	1427.249	LAND MARKER, REBAR
5502	8639349.207	14408988.23	1425.833	LAND MARKER, REBAR
5503	8639445.936	14408597.2	1426.425	LAND MARKER, REBAR
5504	8639442.684	14408126.3	1424.265	LAND MARKER, REBAR
5505	8639433.815	14406887.38	1424.672	LAND MARKER, REBAR
5506	8639353.177	14406819.52	1423.781	LAND MARKER, REBAR
5507	8639351.792	14406639.3	1421.021	LAND MARKER, REBAR
5508	8639175.437	14407280.22	1426.654	LAND MARKER, REBAR
5509	8639339.286	14407638.57	1422.396	LAND MARKER, REBAR
5510	8638621.036	14407229.96	1418.578	LAND MARKER, W/PINK CAP
5599	8639342.745	14408113.54	1423.484	LAND MARKER, REBAR
5700	8639354.592	14406958.24	1424.88	BENCH MARK, FIRE HYDRANT
5701	8639359.861	14406572.21	1423.587	BENCH MARK, FIRE HYDRANT
5702	8639358.846	14407348.23	1428.794	BENCH MARK, FIRE HYDRANT
5703	8639356.478	14407741.98	1423.17	BENCH MARK, FIRE HYDRANT
5704	8639366.965	14408116.66	1424.763	BENCH MARK, FIRE HYDRANT
5705	8639370.44	14408508.22	1426.328	BENCH MARK, FIRE HYDRANT
5706	8639375.489	14408856.38	1428.285	BENCH MARK, FIRE HYDRANT
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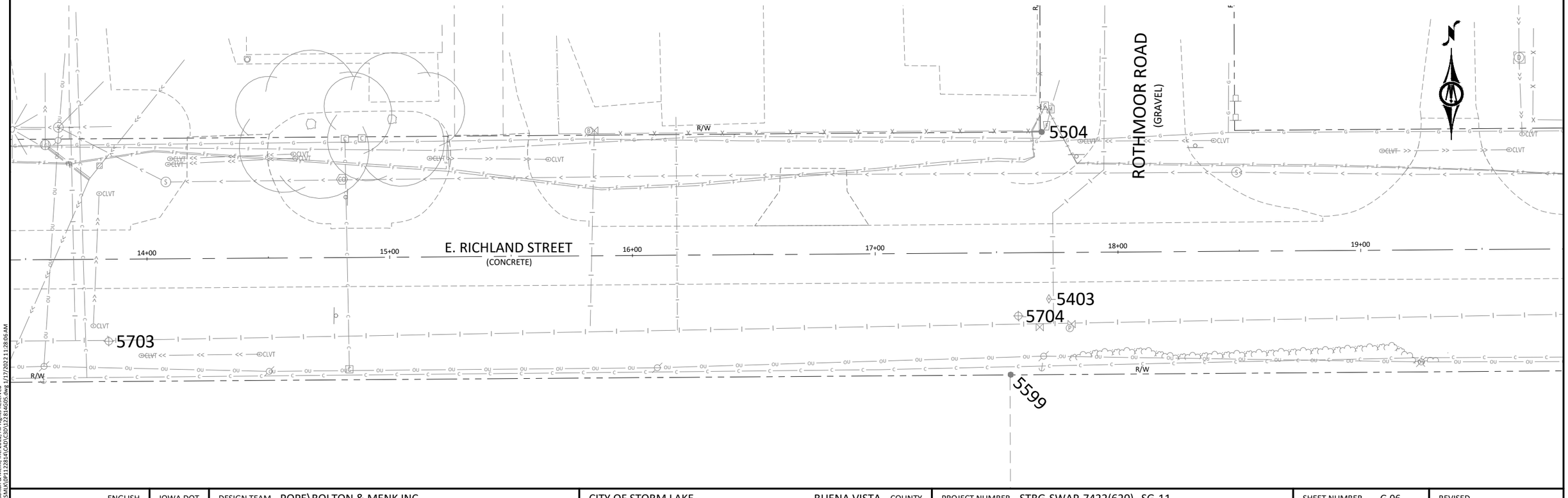

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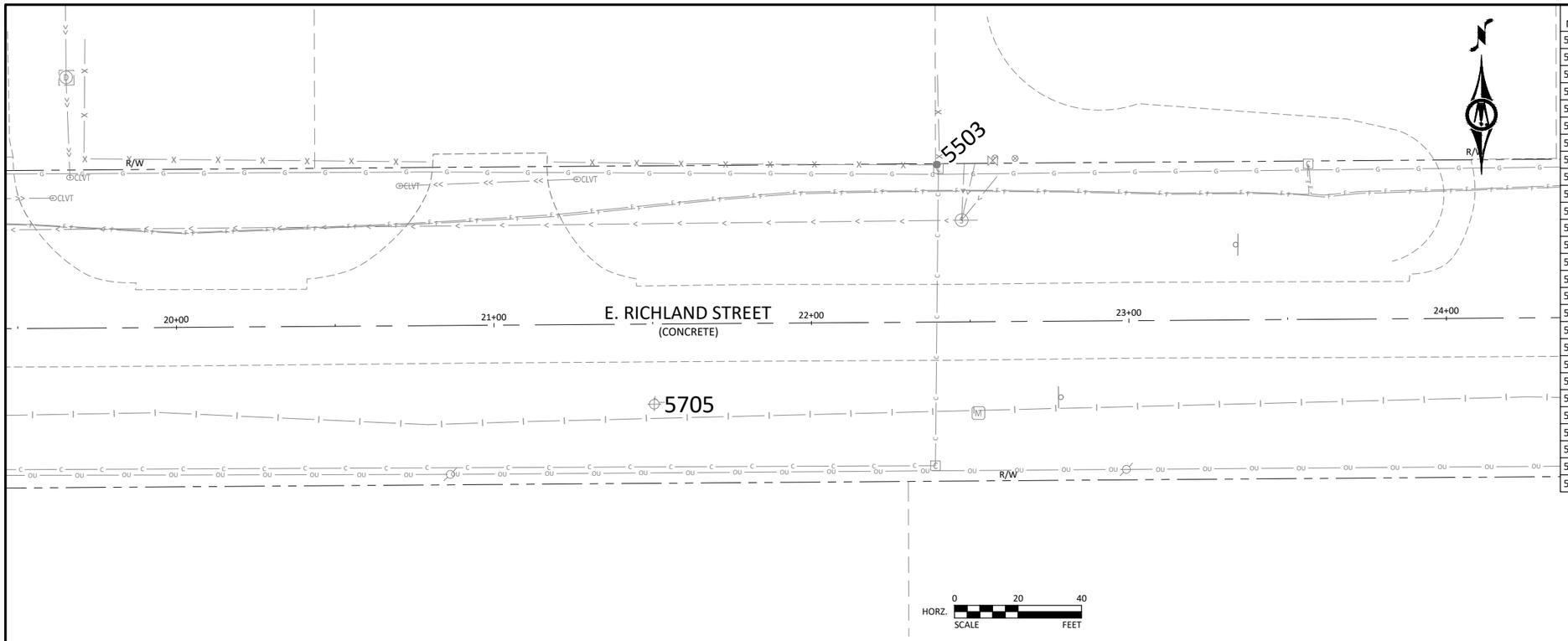
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER G.06	REVISED



POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
5000	8639399.347	14409048.61	1430.069	LEAD PLUG EAST 1/4, SEC. 2-90-73
5400	8639359.742	14406200.32	1418.464	MAG NAIL
5401	8639344.449	14407211.79	1427.87	CONTROL POINT, IRON PIN W/PINK CAP
5402	8639367.731	14407522.3	1427.149	CONTROL POINT, IRON PIN W/PINK CAP
5403	8639373.964	14408129.27	1425.084	CONTROL POINT, IRON PIN W/PINK CAP
5404	8639395.757	14409087.79	1428.263	CONTROL POINT, IRON PIN W/PINK CAP
5405	8639398.637	14406211.29	1418.857	CONTROL POINT, IRON PIN
5500	8639398.391	14409108.45	1428.876	LAND MARKER, REBAR
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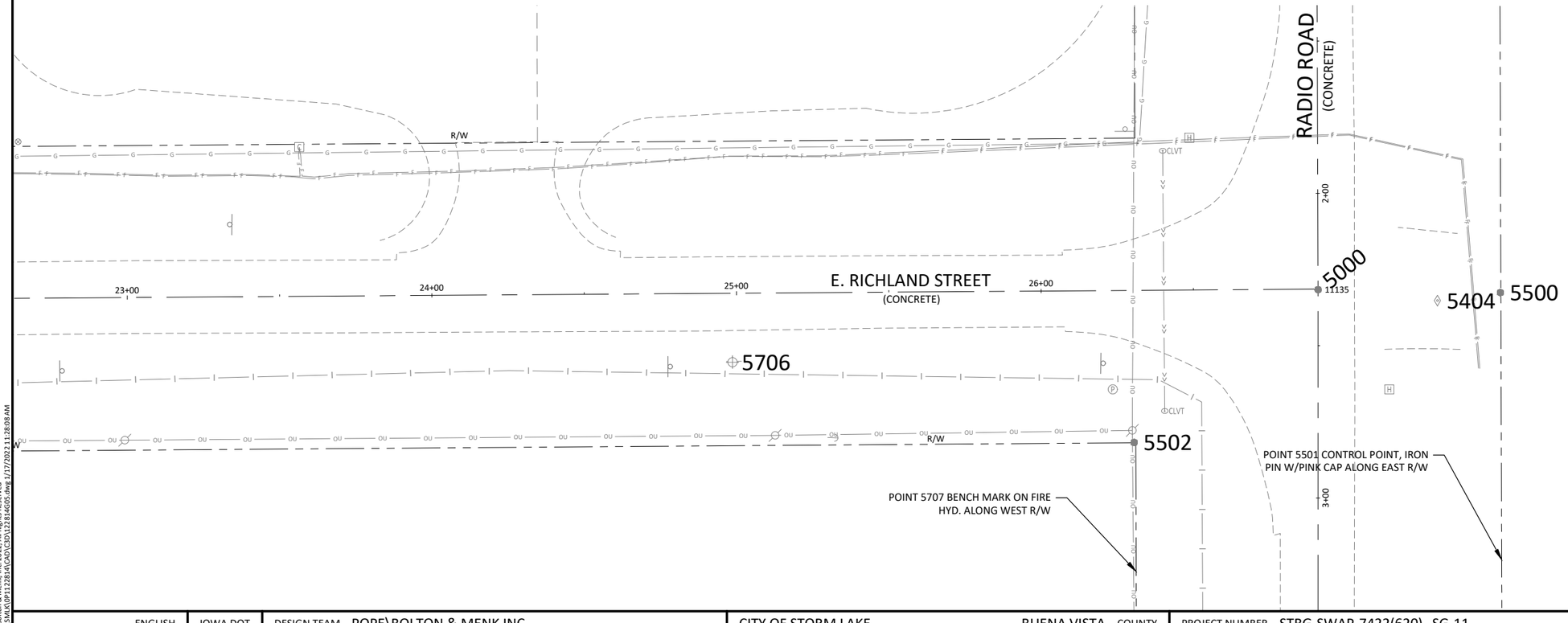

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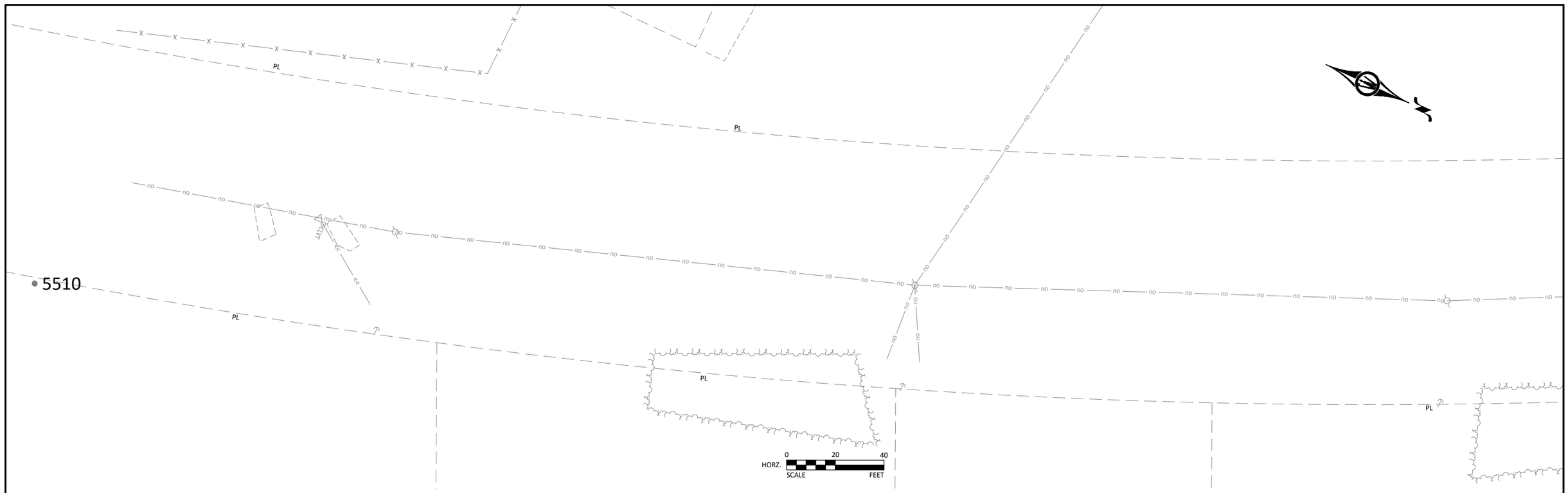
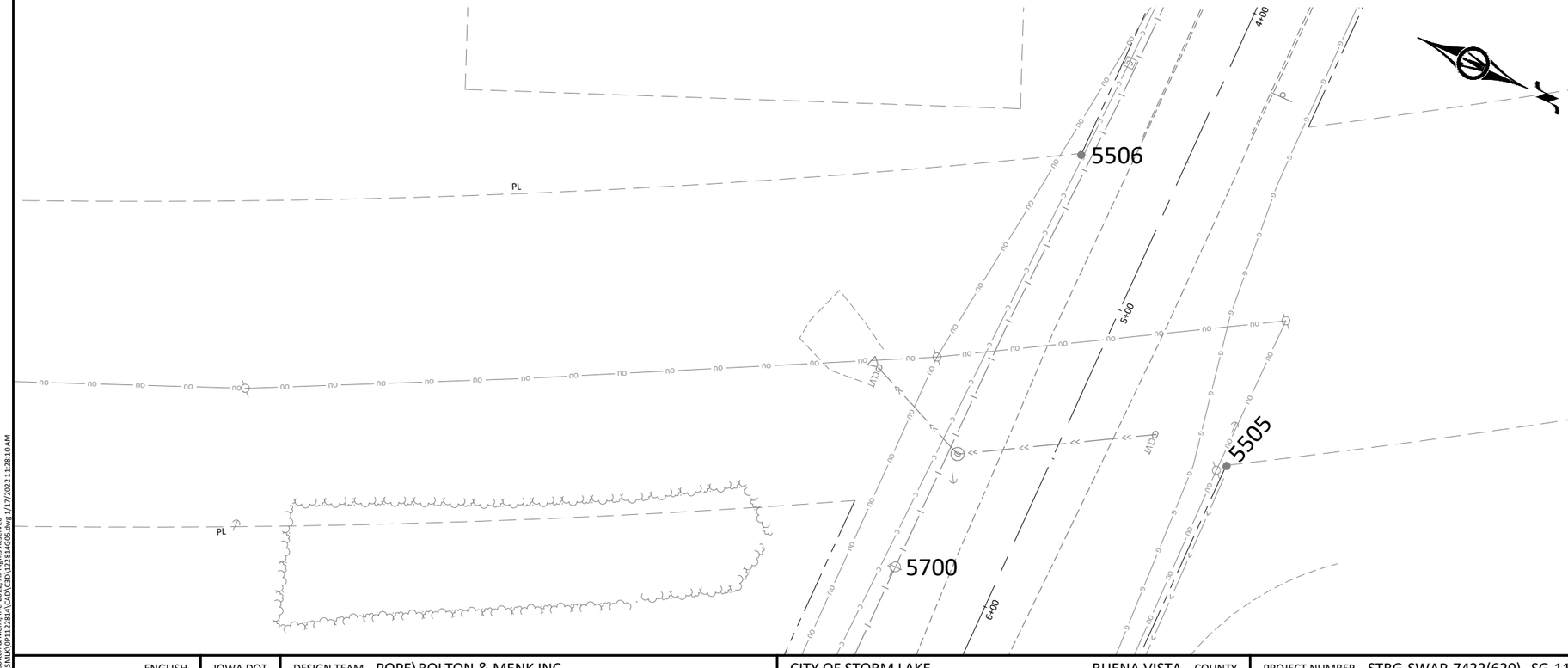
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER G.07	REVISED





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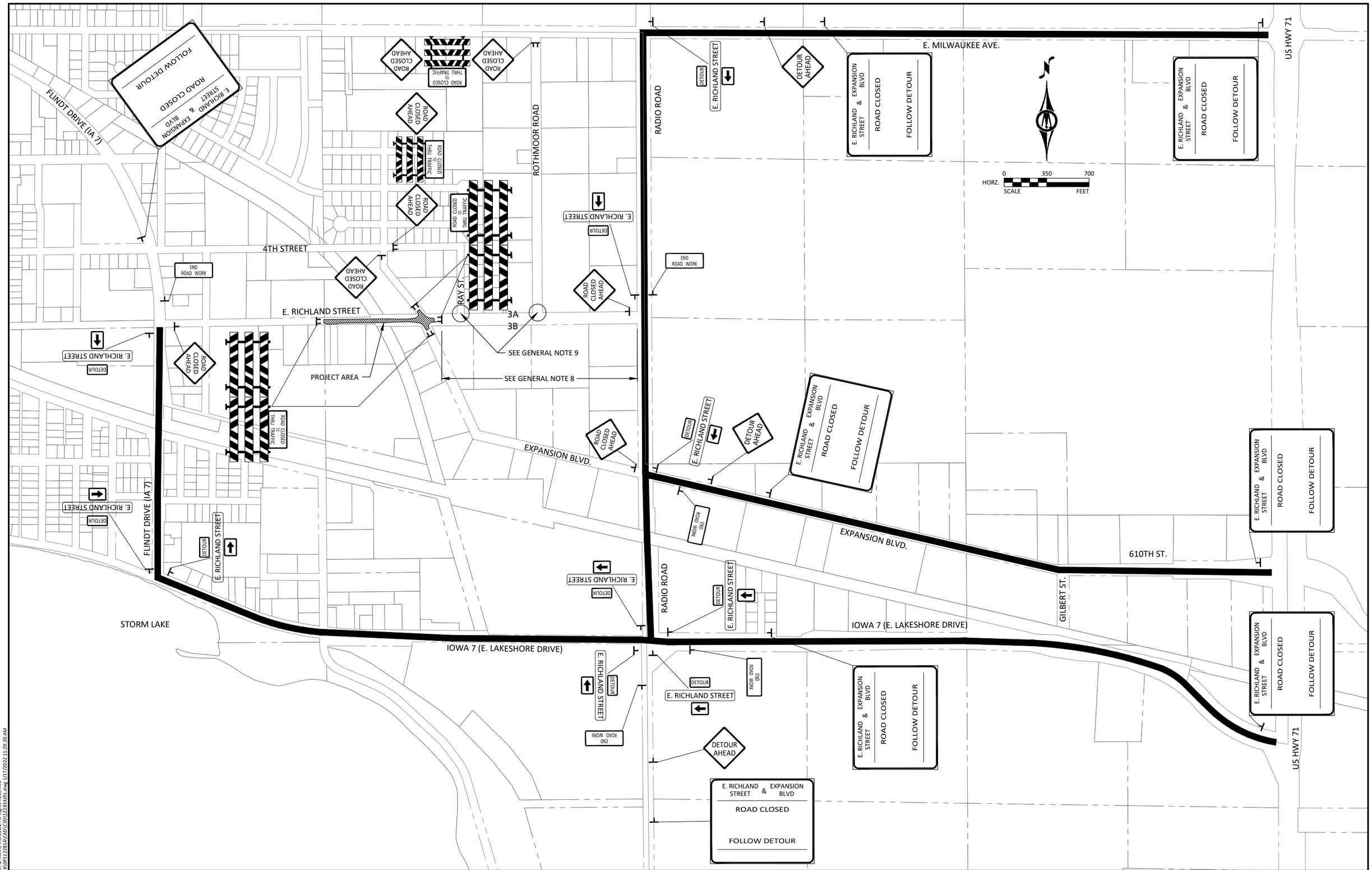

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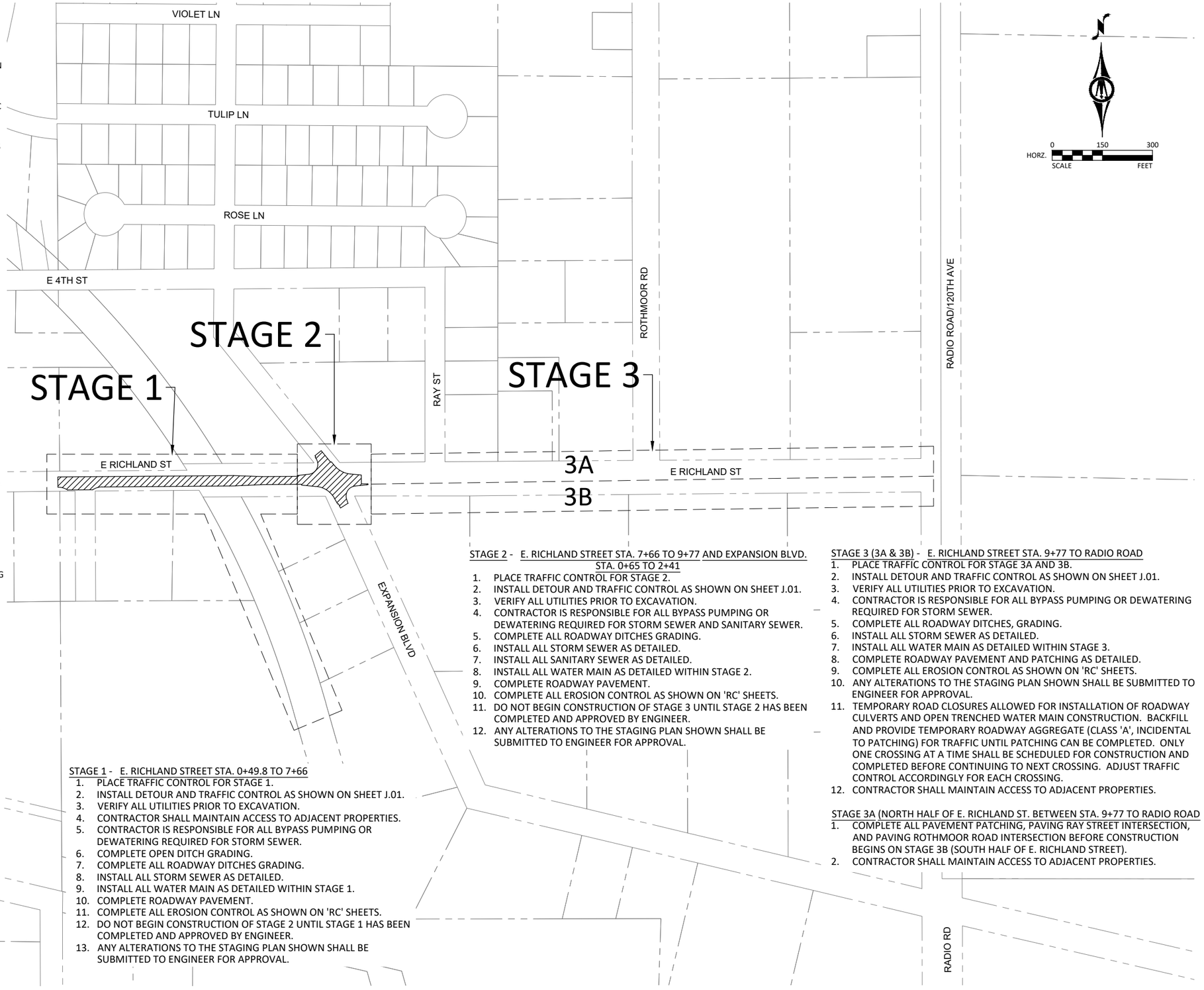
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER J.01	REVISED

TRAFFIC CONTROL NOTES:

1. COORDINATE DETOUR SIGNING WITH IA 110 AND IA 7 CLOSURE / DETOUR.
2. THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL WITH OTHER PROJECTS IN THE AREA IF NECESSARY. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CLOSURES SHOWN ON THE J SHEETS. FOR ADDITIONAL INFORMATION, REFER TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130.
3. THE LUMP SUM BID ITEM FOR "TRAFFIC CONTROL" SHALL INCLUDE ALL COSTS FOR TRAFFIC CONTROL MEASURES DURING CONSTRUCTION FOR THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
4. TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING, AND PAVEMENT MARKINGS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130.
5. ALL TRAFFIC CONTROL SIGNS SHALL BE PLACED A MINIMUM OF TWO (2) FEET CLEAR OF THE BACK OF CURB OR OUTSIDE EDGE OF SHOULDER WHERE POSSIBLE.
6. ALL SIGNS SHALL BE POST MOUNTED UNLESS NOTED OR OTHERWISE APPROVED BY THE CITY.
7. PROPOSED SIGN SPACING MAY BE MODIFIED, AS APPROVED BY THE ENGINEER, TO MEET EXISTING FIELD RESTRICTIONS, OR TO PREVENT OBSTRUCTION OF THE MOTORIST'S VIEW OF PERMANENT SIGNING.
8. PROPOSED CHANGES IN THE TRAFFIC CONTROL PLAN SHALL BE REVIEWED WITH THE CITY BEFORE CHANGES ARE MADE.
9. THIS LAYOUT DOES NOT INCLUDE ALL BARRICADES AS MAY BE REQUIRED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
10. ANY TEMPORARY REGULATORY SIGNS ARE TO BE PROVIDED, LOCATED, AND MAINTAINED BY THE CONTRACTOR.
11. ALL CONTRACTOR FURNISHED TRAFFIC CONTROL AND FIXED, POST MOUNTED, TRAFFIC CONTROL SIGNS USED ON THIS PROJECT SHALL BE SHEETED WITH HIGH-VISIBILITY PRISMATIC REFLECTIVE SHEETING (TYPE III OR HIGHER).
12. THE CONTRACTOR SHALL FURNISH THE CITY WITH NAMES AND TELEPHONE NUMBERS OF INDIVIDUALS RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES AND SIGNING. THE INDIVIDUAL(S) SHALL BE AVAILABLE FOR CORRECTIVE ACTION 24 HOURS A DAY, 7 DAYS A WEEK.
13. THE CONTRACTOR SHALL NOTIFY THE CITY OF STREET OR LANE CLOSURE TWO (2) WEEKS PRIOR TO THE CLOSURE. STREET OR LANE CLOSURE NOTIFICATION TO BE ISSUED BY THE CITY FIVE (5) DAYS PRIOR TO CLOSURE. THE CONTRACTOR SHALL COORDINATE CLOSURE WITH THE CITY TO ENSURE THE ABOVE DEADLINES ARE ACHIEVED. CONTRACTOR SHALL COORDINATE DETOUR INFORMATION WITH CITY OF STORM LAKE, POST OFFICE, AND GARBAGE/RECYCLING SERVICES.
14. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, MOVE, AND REMOVE ALL TRAFFIC CONTROL DEVICES ON THE PROJECT. ALL SIGNS SHALL BE REFLECTORIZED AND CONFORM AS TO DESIGN, COLOR, SIZE, AND LEGEND TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130.
15. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS, WITH BOTH WRITTEN NOTICE AND PERSONAL CONTACT, WHEN ACCESS TO A PROPERTY WILL EITHER BE RESTRICTED OR NOT BE AVAILABLE DUE TO CONSTRUCTION ACTIVITIES.
16. NO FIELD MEASUREMENT SHALL BE MADE FOR THE TRAFFIC CONTROL BID ITEM. THE CONTRACTOR SHALL BE PAID THE LUMP SUM BID AMOUNT FOR TRAFFIC CONTROL.
17. SIGNAGE MAINTENANCE SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND REQUIRED AS DIRECTED BY THE ENGINEER.
18. THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NONWORKING HOURS SHALL BE AS APPROVED BY THE ENGINEER, AND THE CONTRACTOR SHALL PROVIDE A WRITTEN AGREEMENT WITH THE PROPERTY OWNER.
19. MULTIPLE MOBILIZATIONS ARE ANTICIPATED FOR TRAFFIC CONTROL TO ADJUST THE TRAFFIC CONTROL DEVICES FOR THE DIFFERENT STAGES OF CONSTRUCTION. THESE MOBILIZATIONS SHALL BE INCIDENTAL TO TRAFFIC CONTROL BID ITEM.
20. ACCESS TO RESIDENCES SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE CONTRACT.
21. FOLLOW STANDARD ROAD PLAN TC-212 DURING THIS PHASE OF PAVEMENT REPAIR (FULL DEPTH PATCHING).
22. FOLLOW STANDARD ROAD PLAN TC-252, SITUATION 3 DURING THIS PHASE OF PAVEMENT REPAIR (FULL DEPTH PATCHING).

STAGING NOTES

1. ANY ADJUSTMENT TO THE STAGING/TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF STORM LAKE AND ENGINEER A MINIMUM OF TWO WEEKS IN ADVANCE.



STAGE 1 - E. RICHLAND STREET STA. 0+49.8 TO 7+66

1. PLACE TRAFFIC CONTROL FOR STAGE 1.
2. INSTALL DETOUR AND TRAFFIC CONTROL AS SHOWN ON SHEET J.01.
3. VERIFY ALL UTILITIES PRIOR TO EXCAVATION.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES.
5. CONTRACTOR IS RESPONSIBLE FOR ALL BYPASS PUMPING OR DEWATERING REQUIRED FOR STORM SEWER.
6. COMPLETE OPEN DITCH GRADING.
7. COMPLETE ALL ROADWAY DITCHES GRADING.
8. INSTALL ALL STORM SEWER AS DETAILED.
9. INSTALL ALL WATER MAIN AS DETAILED WITHIN STAGE 1.
10. COMPLETE ROADWAY PAVEMENT.
11. COMPLETE ALL EROSION CONTROL AS SHOWN ON 'RC' SHEETS.
12. DO NOT BEGIN CONSTRUCTION OF STAGE 2 UNTIL STAGE 1 HAS BEEN COMPLETED AND APPROVED BY ENGINEER.
13. ANY ALTERATIONS TO THE STAGING PLAN SHOWN SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.

STAGE 2 - E. RICHLAND STREET STA. 7+66 TO 9+77 AND EXPANSION BLVD. STA. 0+65 TO 2+41

1. PLACE TRAFFIC CONTROL FOR STAGE 2.
2. INSTALL DETOUR AND TRAFFIC CONTROL AS SHOWN ON SHEET J.01.
3. VERIFY ALL UTILITIES PRIOR TO EXCAVATION.
4. CONTRACTOR IS RESPONSIBLE FOR ALL BYPASS PUMPING OR DEWATERING REQUIRED FOR STORM SEWER AND SANITARY SEWER.
5. COMPLETE ALL ROADWAY DITCHES GRADING.
6. INSTALL ALL STORM SEWER AS DETAILED.
7. INSTALL ALL SANITARY SEWER AS DETAILED.
8. INSTALL ALL WATER MAIN AS DETAILED WITHIN STAGE 2.
9. COMPLETE ROADWAY PAVEMENT.
10. COMPLETE ALL EROSION CONTROL AS SHOWN ON 'RC' SHEETS.
11. DO NOT BEGIN CONSTRUCTION OF STAGE 3 UNTIL STAGE 2 HAS BEEN COMPLETED AND APPROVED BY ENGINEER.
12. ANY ALTERATIONS TO THE STAGING PLAN SHOWN SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.

STAGE 3 (3A & 3B) - E. RICHLAND STREET STA. 9+77 TO RADIO ROAD

1. PLACE TRAFFIC CONTROL FOR STAGE 3A AND 3B.
2. INSTALL DETOUR AND TRAFFIC CONTROL AS SHOWN ON SHEET J.01.
3. VERIFY ALL UTILITIES PRIOR TO EXCAVATION.
4. CONTRACTOR IS RESPONSIBLE FOR ALL BYPASS PUMPING OR DEWATERING REQUIRED FOR STORM SEWER.
5. COMPLETE ALL ROADWAY DITCHES, GRADING.
6. INSTALL ALL STORM SEWER AS DETAILED.
7. INSTALL ALL WATER MAIN AS DETAILED WITHIN STAGE 3.
8. COMPLETE ROADWAY PAVEMENT AND PATCHING AS DETAILED.
9. COMPLETE ALL EROSION CONTROL AS SHOWN ON 'RC' SHEETS.
10. ANY ALTERATIONS TO THE STAGING PLAN SHOWN SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.
11. TEMPORARY ROAD CLOSURES ALLOWED FOR INSTALLATION OF ROADWAY CULVERTS AND OPEN TRENCHED WATER MAIN CONSTRUCTION. BACKFILL AND PROVIDE TEMPORARY ROADWAY AGGREGATE (CLASS 'A', INCIDENTAL TO PATCHING) FOR TRAFFIC UNTIL PATCHING CAN BE COMPLETED. ONLY ONE CROSSING AT A TIME SHALL BE SCHEDULED FOR CONSTRUCTION AND COMPLETED BEFORE CONTINUING TO NEXT CROSSING. ADJUST TRAFFIC CONTROL ACCORDINGLY FOR EACH CROSSING.
12. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES.

STAGE 3A (NORTH HALF OF E. RICHLAND ST. BETWEEN STA. 9+77 TO RADIO ROAD

1. COMPLETE ALL PAVEMENT PATCHING, PAVING RAY STREET INTERSECTION, AND PAVING ROTHMOOR ROAD INTERSECTION BEFORE CONSTRUCTION BEGINS ON STAGE 3B (SOUTH HALF OF E. RICHLAND STREET).
2. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES.

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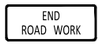
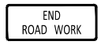
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER J.02	REVISED

TRAFFIC CONTROL SIGN TABULATIONS (DETOUR & TRAFFIC CONTROL)

SIGN	SIGN NO.	COLOR	SIZE	QUANITY
	G20-X1	BLACK ON ORANGE	66" X 60"	8
	G20-2A	BLACK ON ORANGE	48" X 24"	5
	R11-4	BLACK ON WHITE	48" X 30"	4
	M4-8	BLACK ON ORANGE	24" X 12"	10
	M6-1_L	BLACK ON ORANGE	21" X 15"	5
	M6-1_R	BLACK ON ORANGE	21" X 15"	2
	M6-3	BLACK ON ORANGE	21" X 15"	3
	T3-3	WHITE ON ORANGE	72" X 6"	6
	W20-2	BLACK ON ORANGE	48" X 48"	5
	W20-3	BLACK ON ORANGE	48" X 48"	8
	CUSTOM	BLACK ON ORANGE	24" X 6"	10

TRAFFIC CONTROL SIGN TABULATIONS (STD RD PLAN TC-212)

SIGN	SIGN NO.	COLOR	SIZE	QUANITY
	G20-2A	BLACK ON ORANGE	48" X 24"	2
	W20-1	BLACK ON ORANGE	48" X 48"	2
	W20-4	BLACK ON ORANGE	48" X 48"	2
	W20-7A	BLACK ON ORANGE	48" X 48"	2

TRAFFIC CONTROL SIGN TABULATIONS (STD RD PLAN TC-252)

SIGN	SIGN NO.	COLOR	SIZE	QUANITY
	W20-3	BLACK ON ORANGE	48" X 48"	1
	W20-3	BLACK ON ORANGE	48" X 48"	1

GENERAL NOTES:

1. SIGNS MAYBE RELOCATED AS NEEDED FOR TRAFFIC CONTROL AS CONSTRUCTION IS COMPLETED IN EACH STAGE OF CONSTRUCTION.

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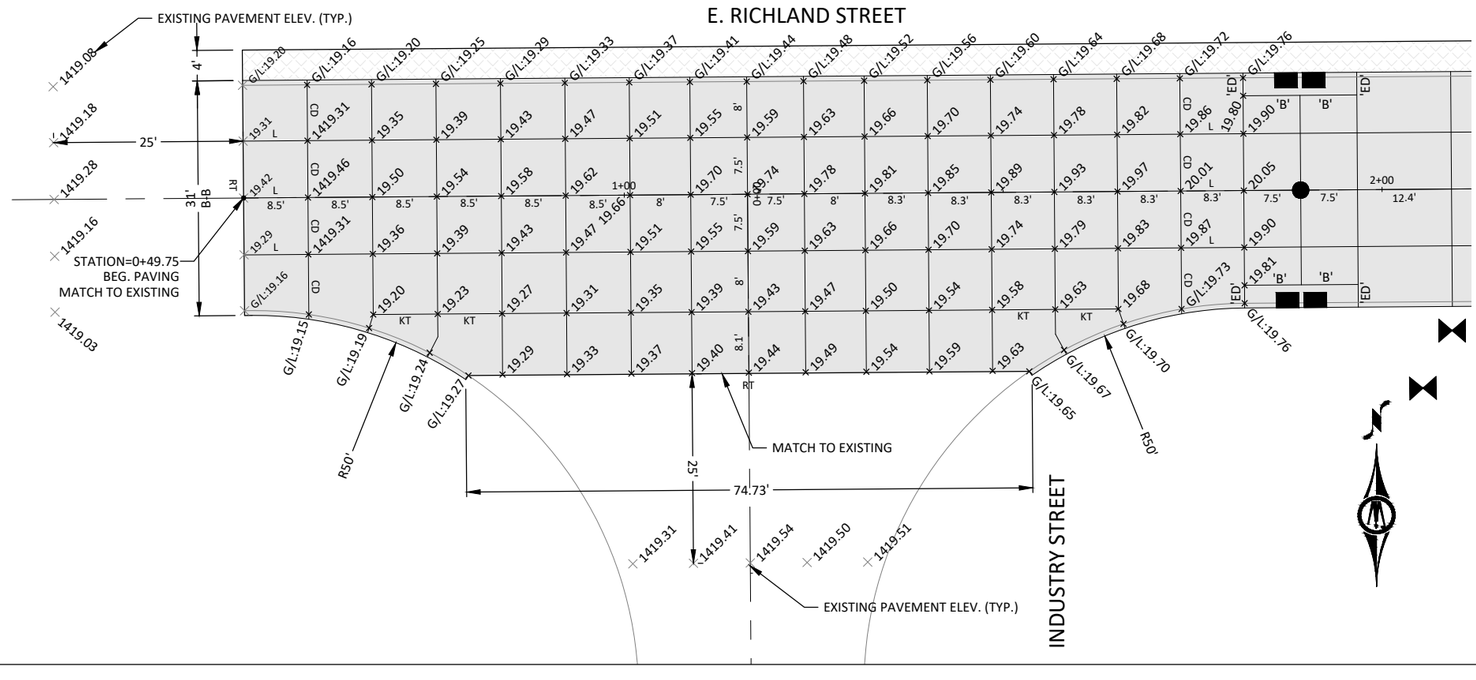

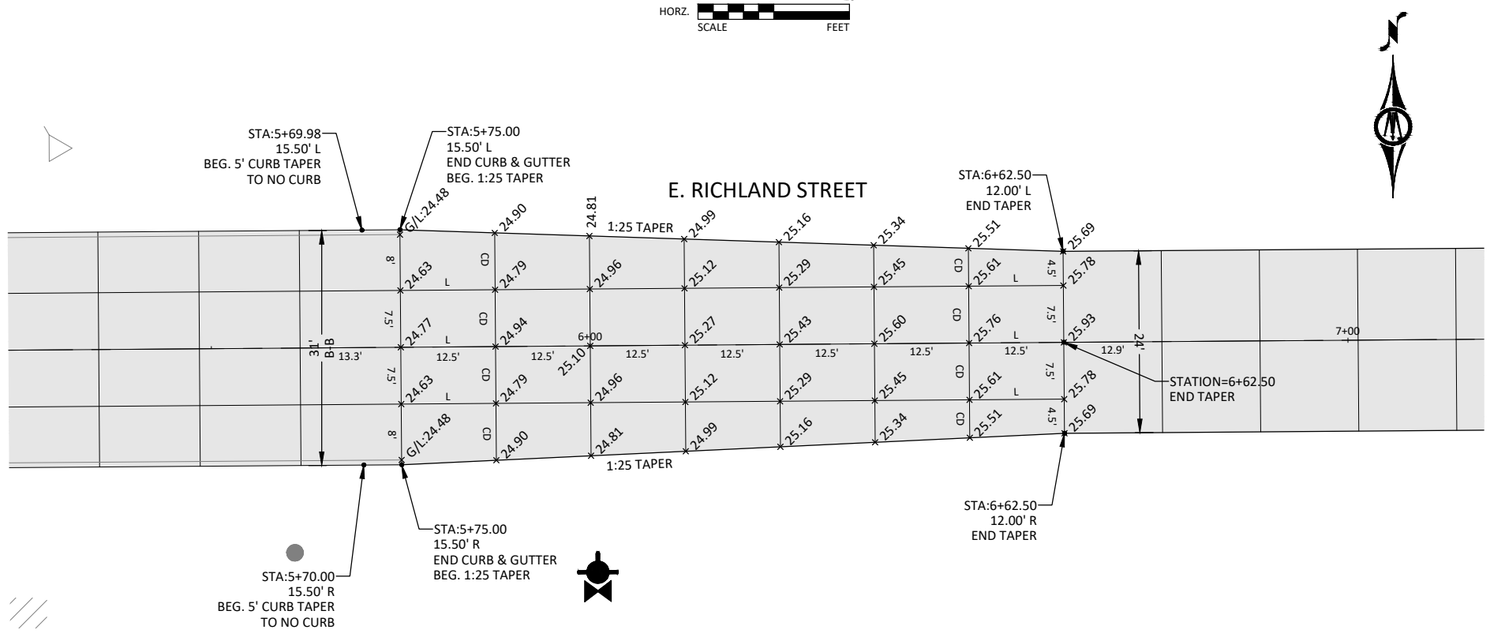

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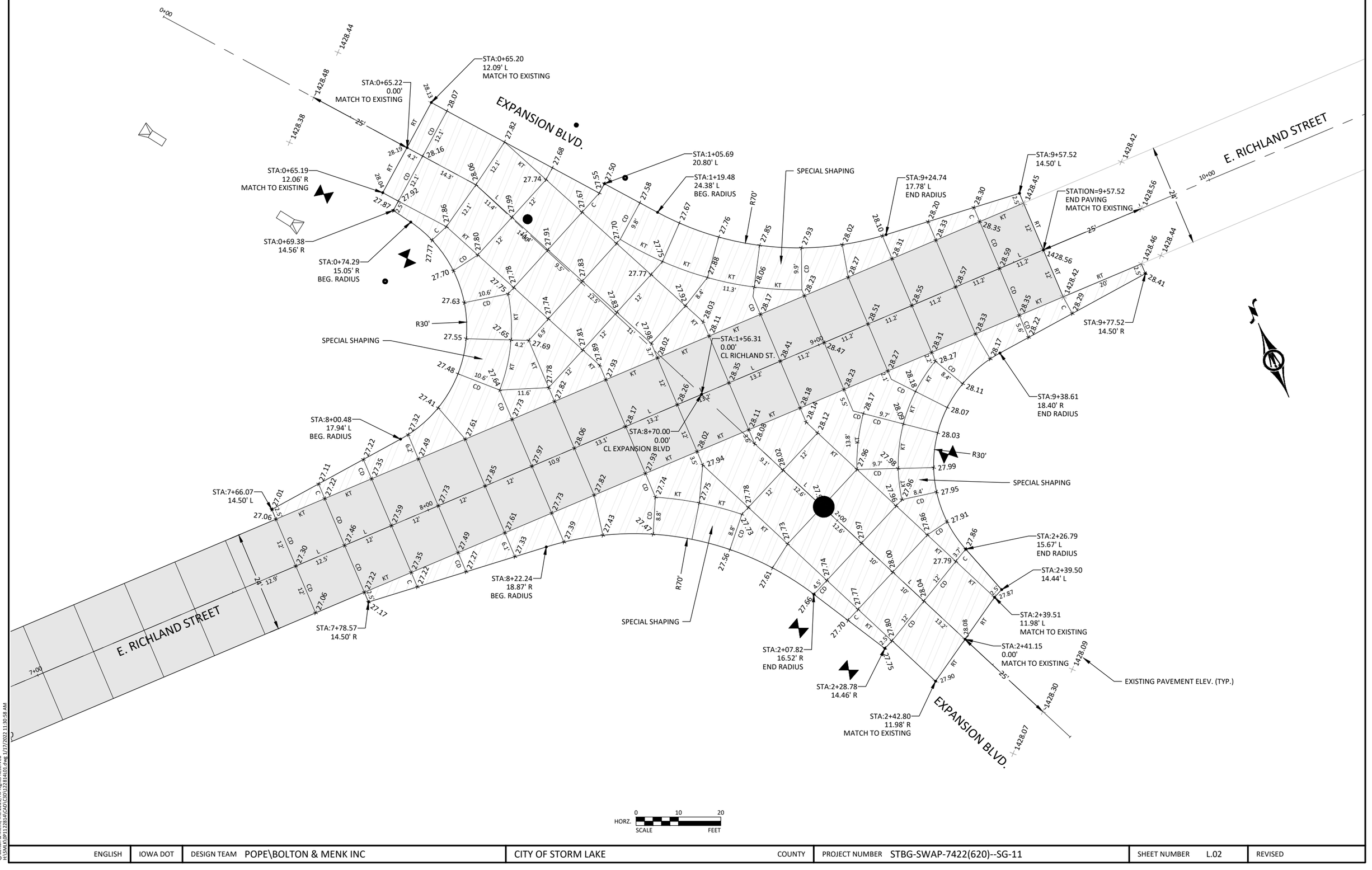
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER L.01	REVISED



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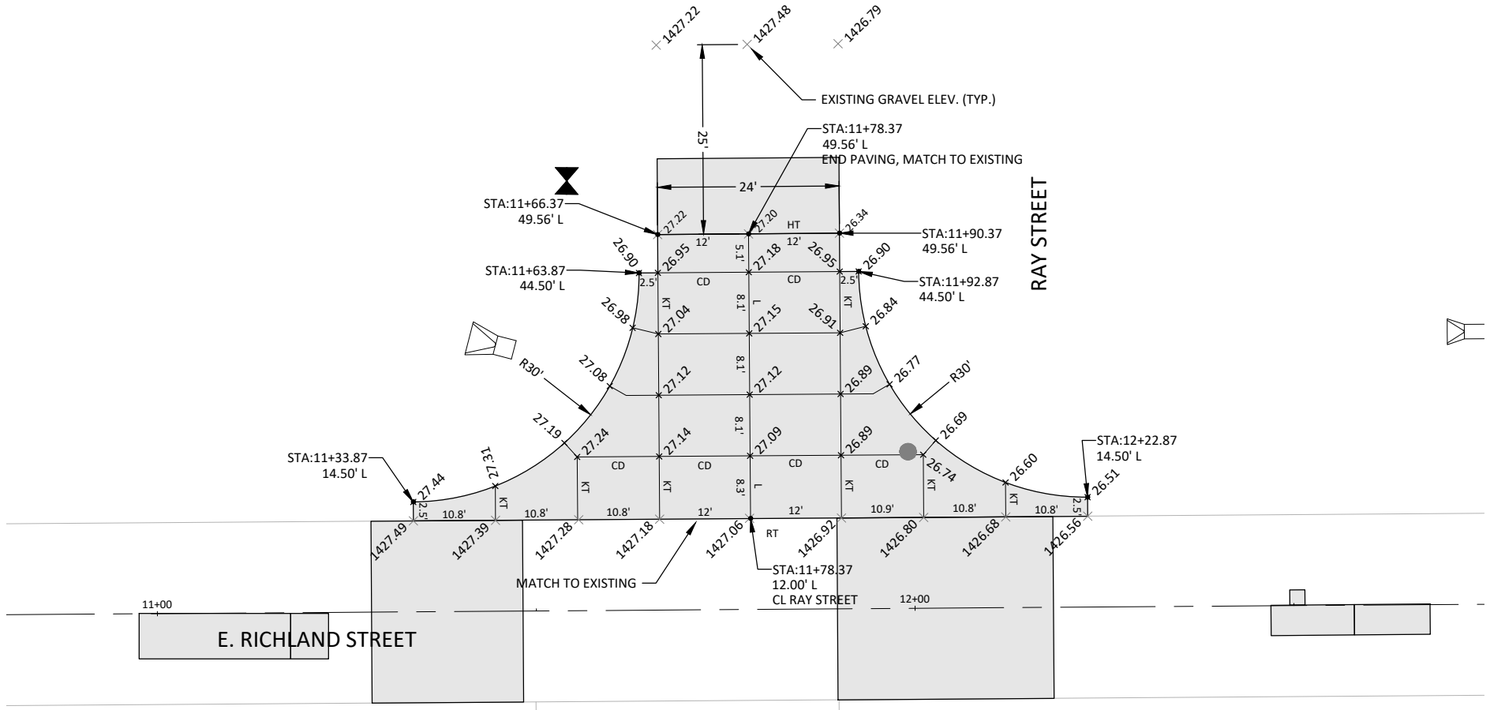
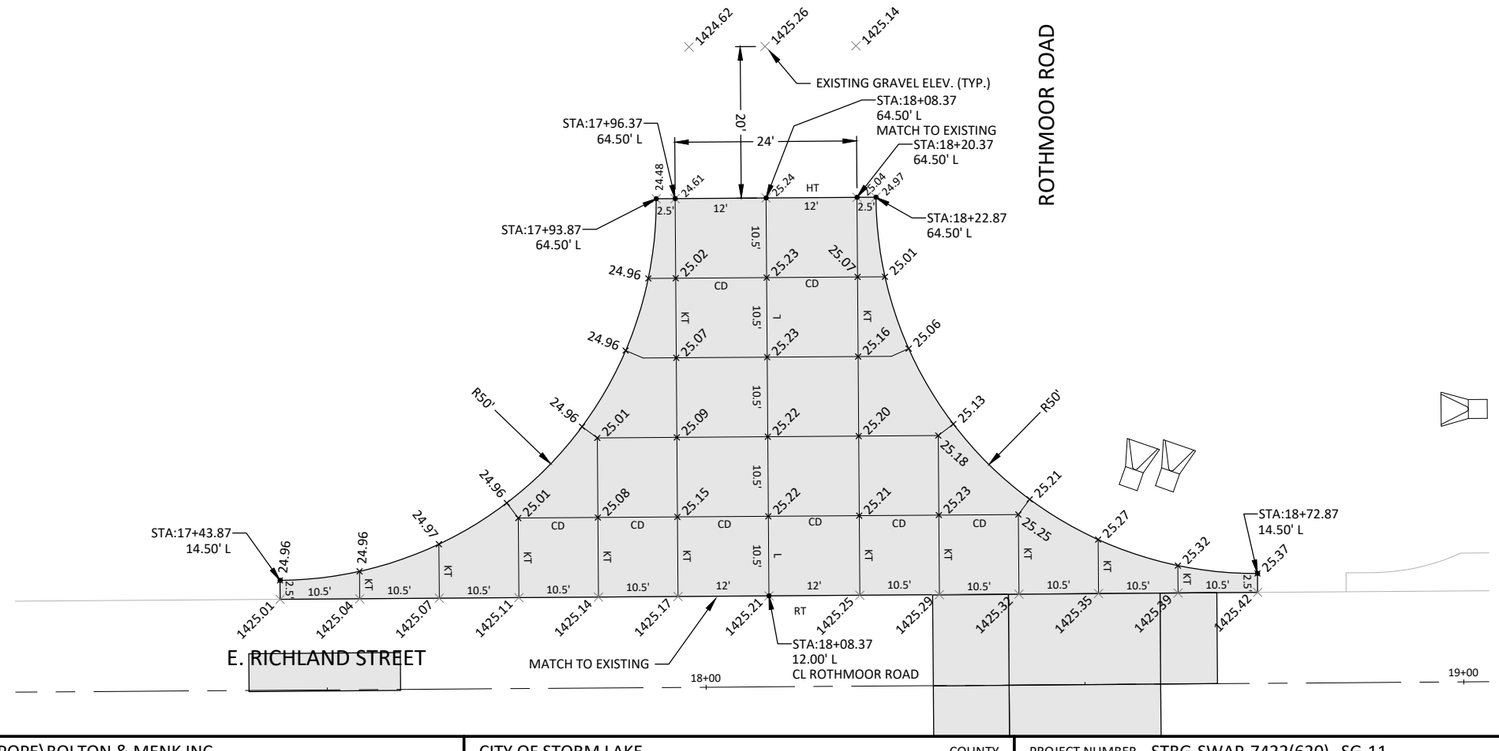
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER L.02	REVISED





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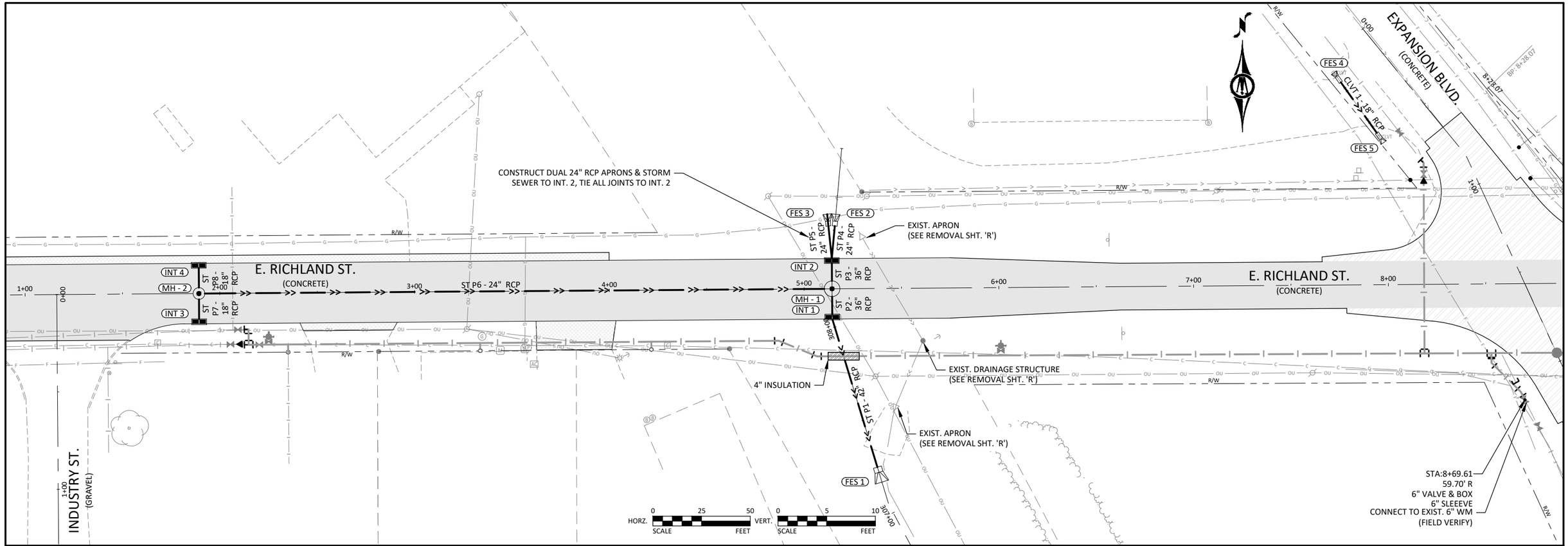
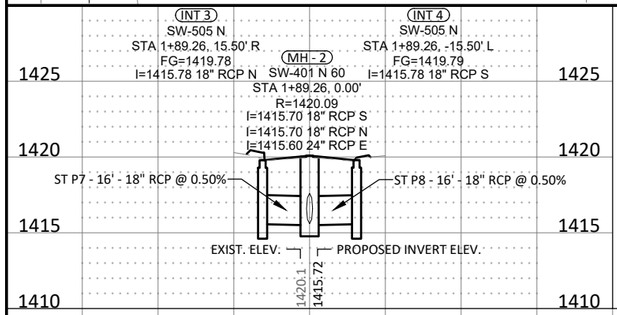
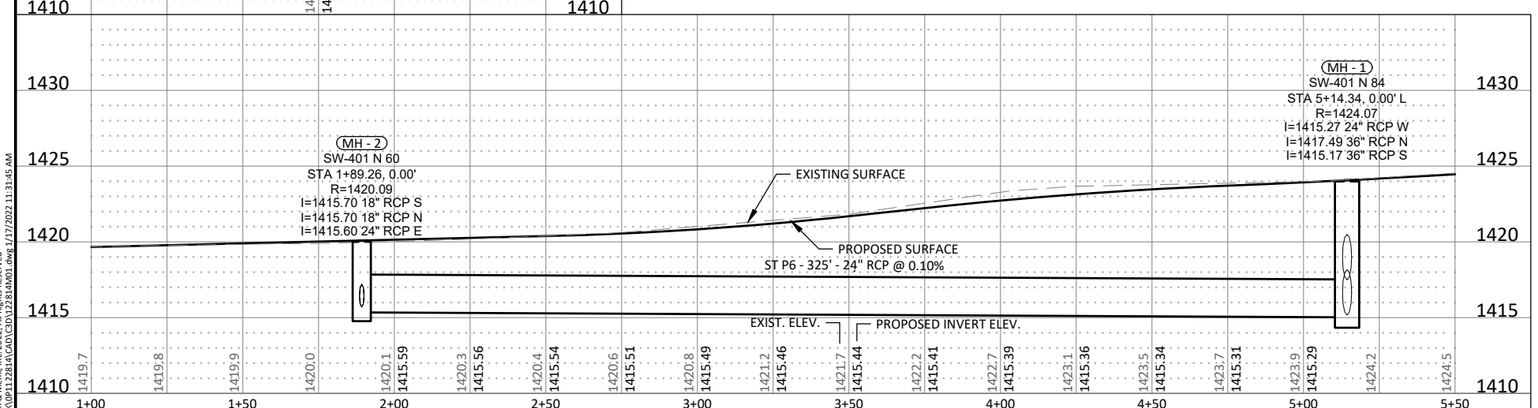
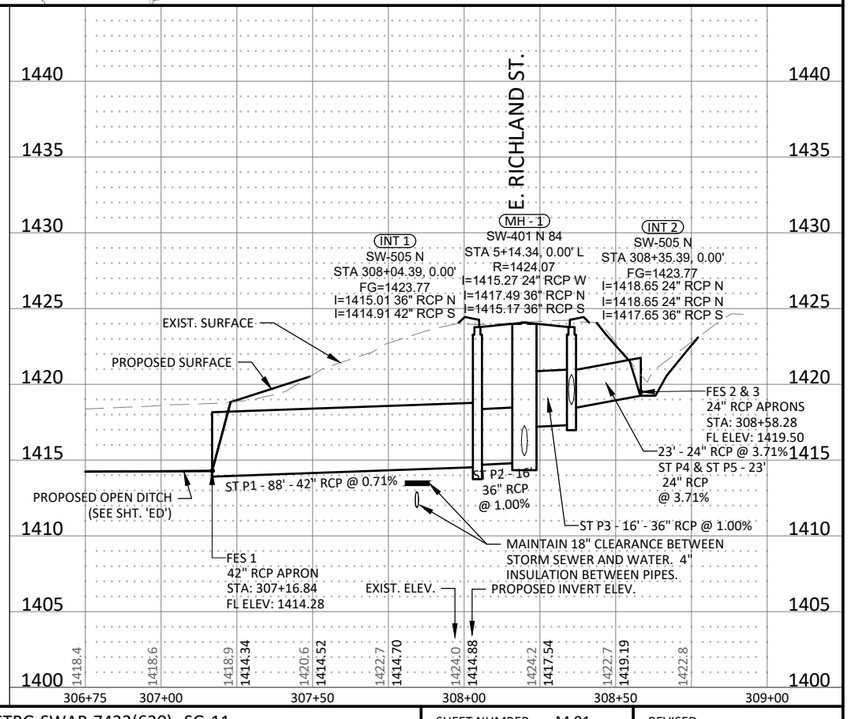
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER L.03	REVISED



NOTES:
1. PROVIDE MINIMUM 18 INCH VERTICAL SEPARATION BETWEEN ALL STORM, SANITARY, AND WATER MAIN CROSSINGS, INCIDENTAL TO WATER MAIN.







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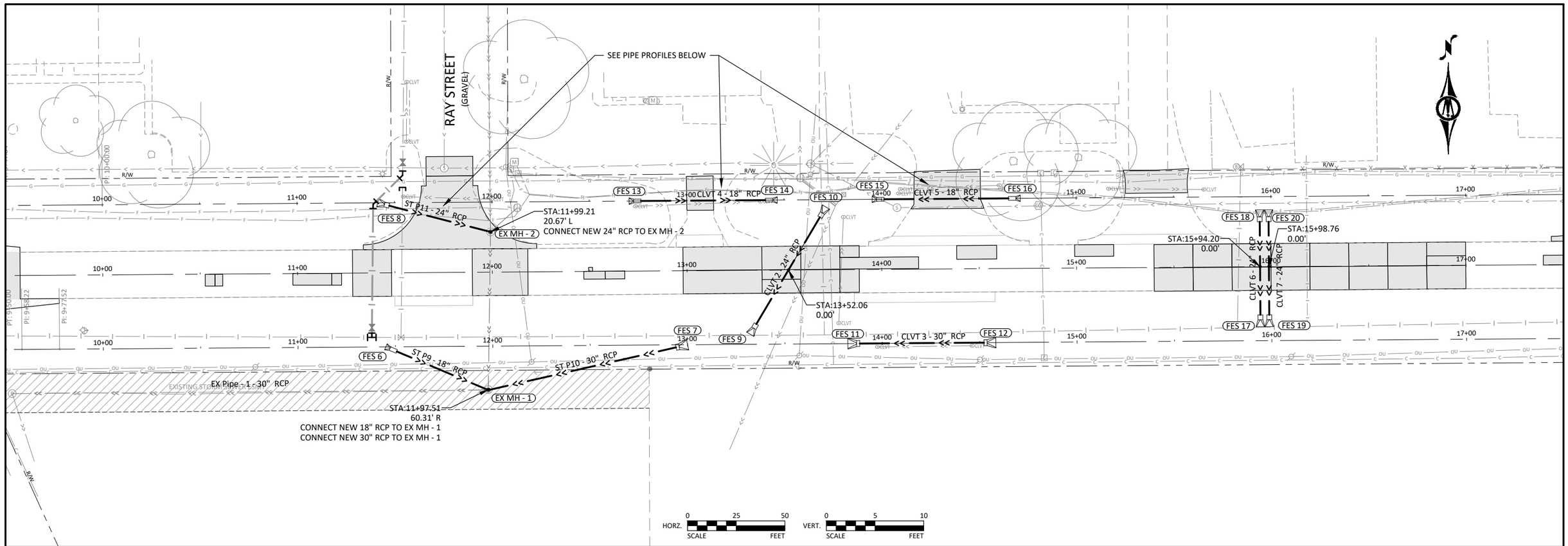
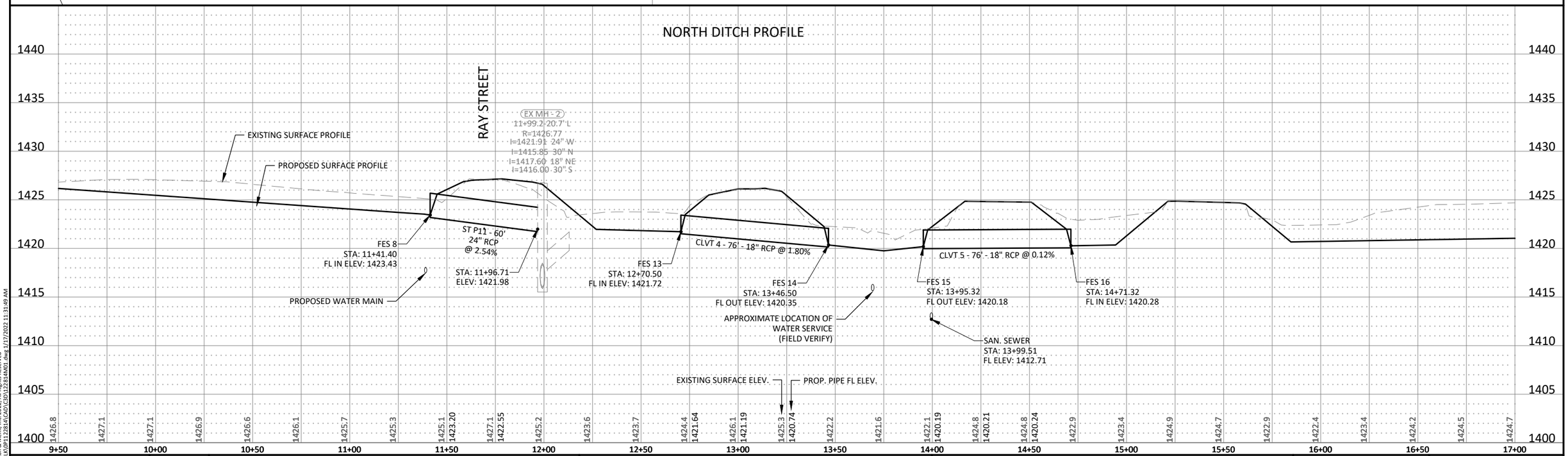
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER M.01	REVISED





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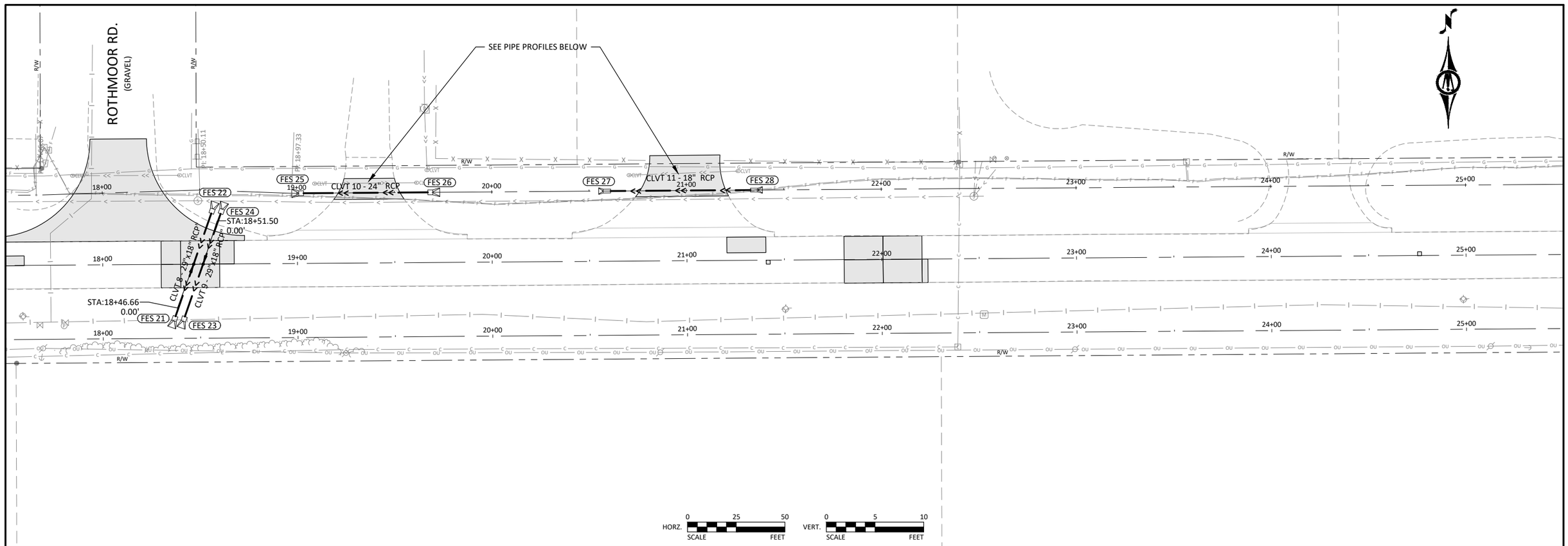
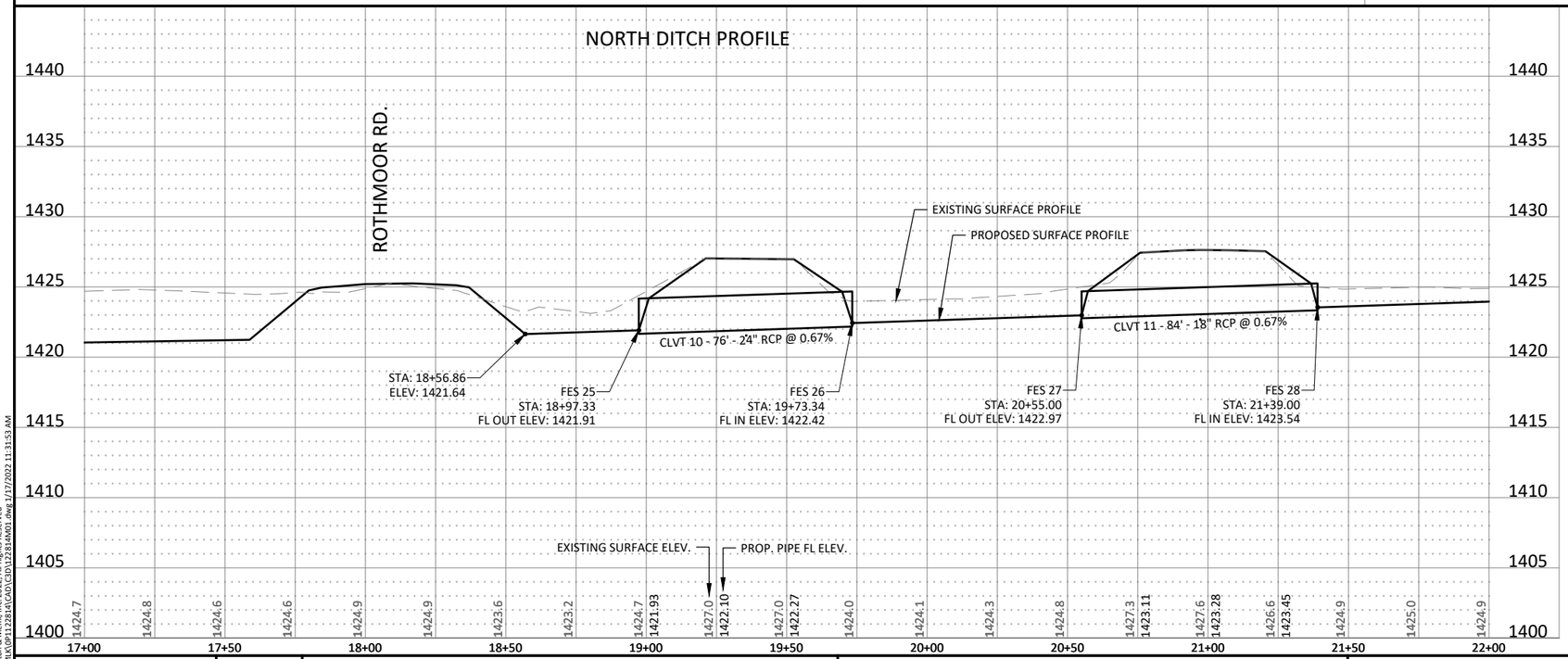
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER M.02	REVISED





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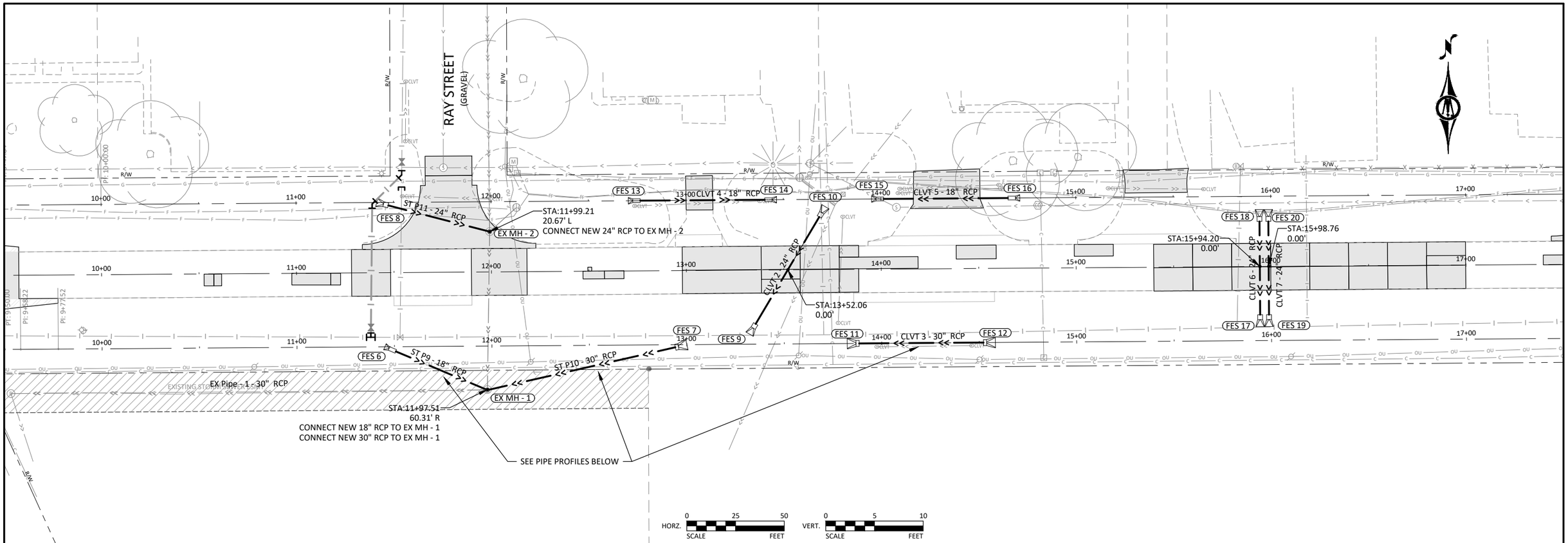
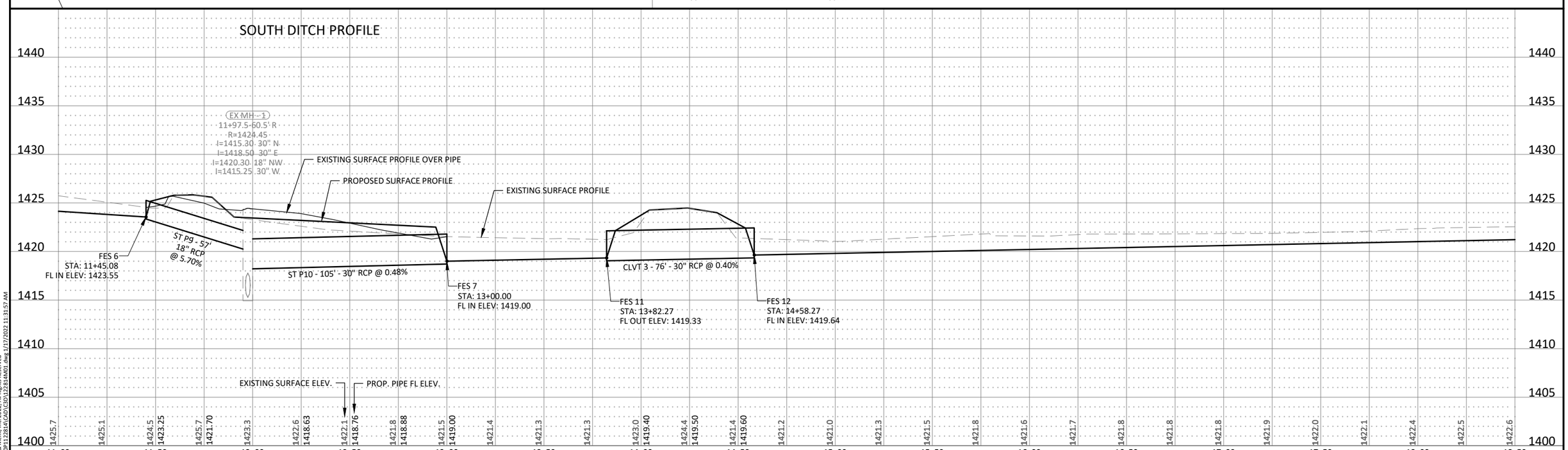
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER M.03	REVISED





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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER M.04	REVISED

ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER M.05	REVISED

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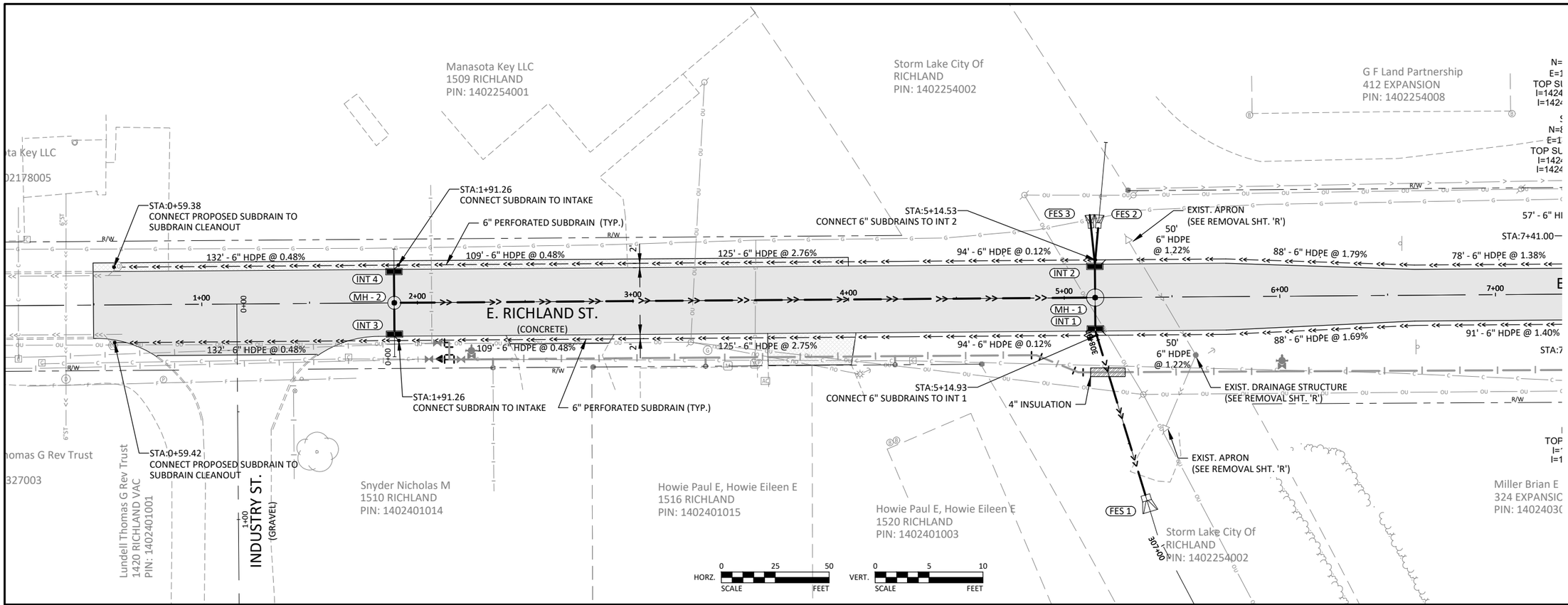
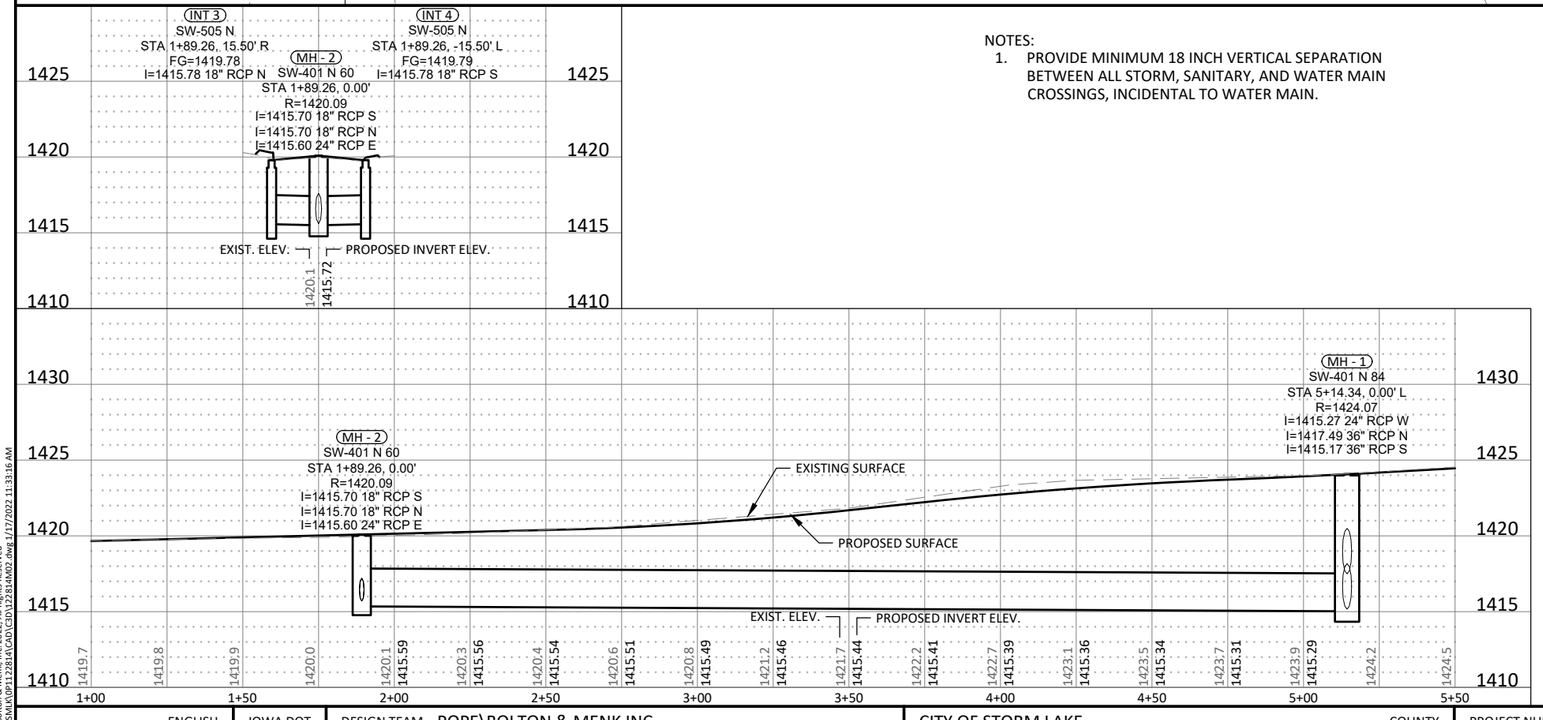
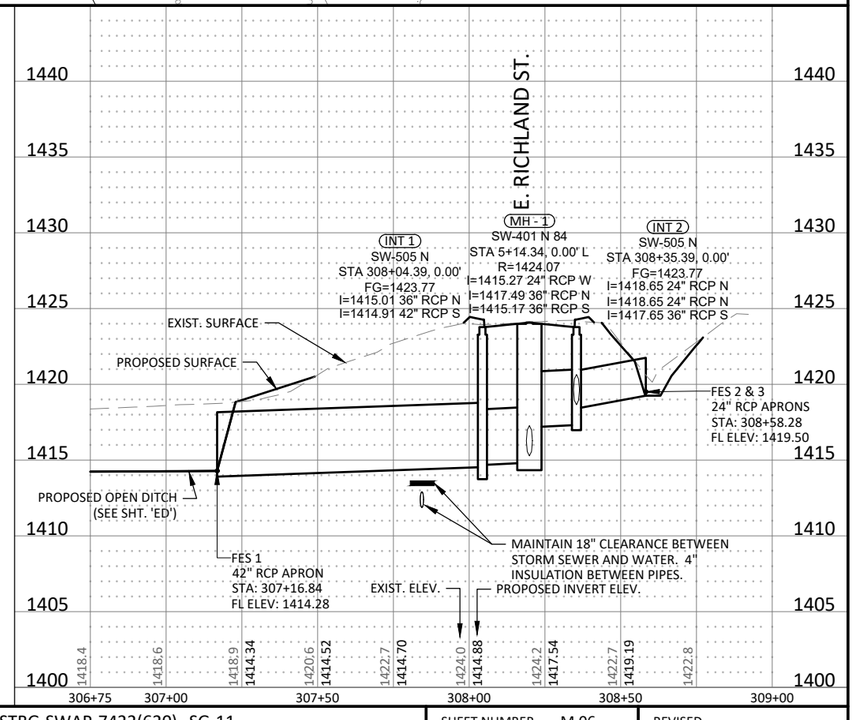


NOTES:

1. PROVIDE MINIMUM 18 INCH VERTICAL SEPARATION BETWEEN ALL STORM, SANITARY, AND WATER MAIN CROSSINGS, INCIDENTAL TO WATER MAIN.





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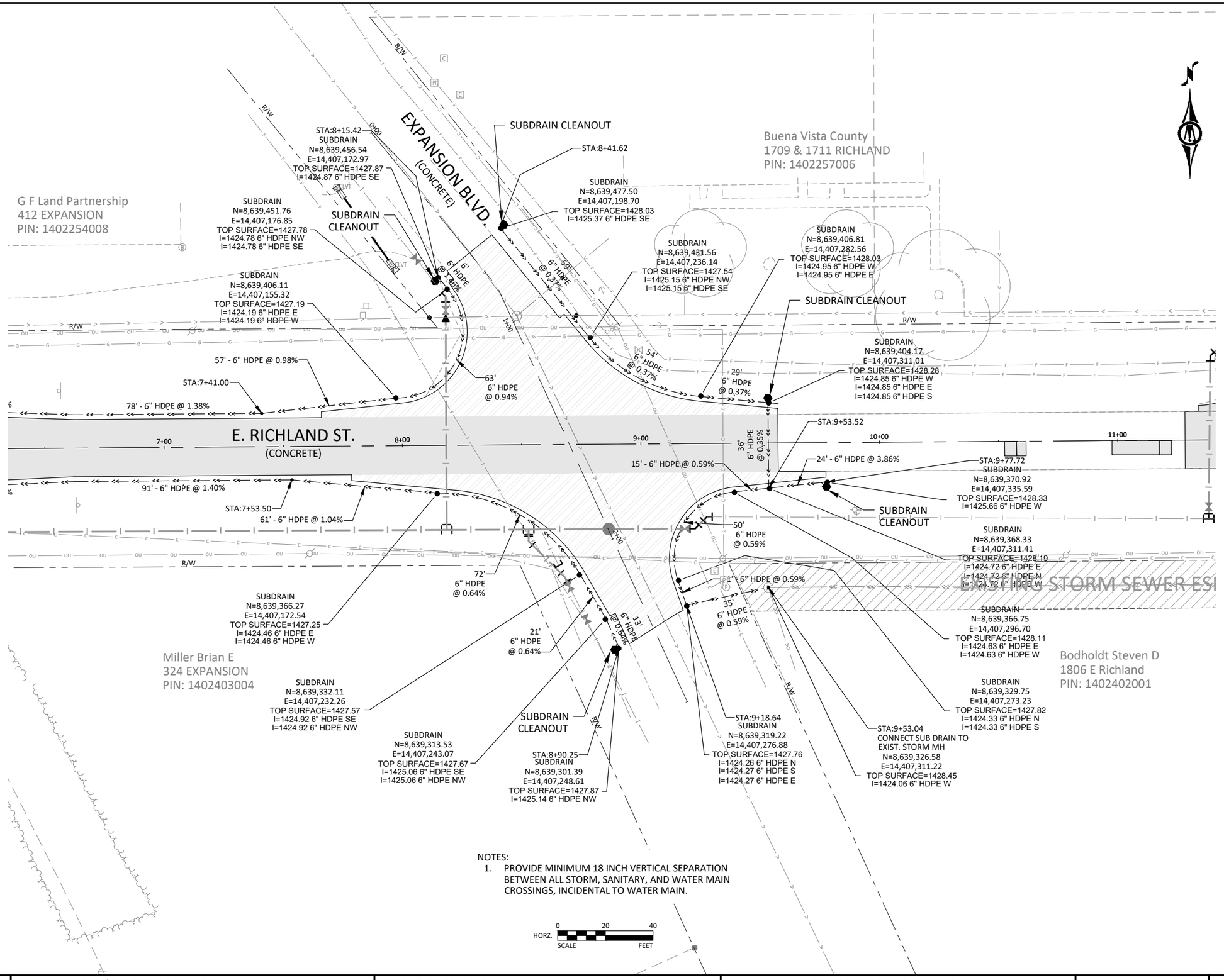
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER M.06	REVISED



NOTES:

1. PROVIDE MINIMUM 18 INCH VERTICAL SEPARATION BETWEEN ALL STORM, SANITARY, AND WATER MAIN CROSSINGS, INCIDENTAL TO WATER MAIN.

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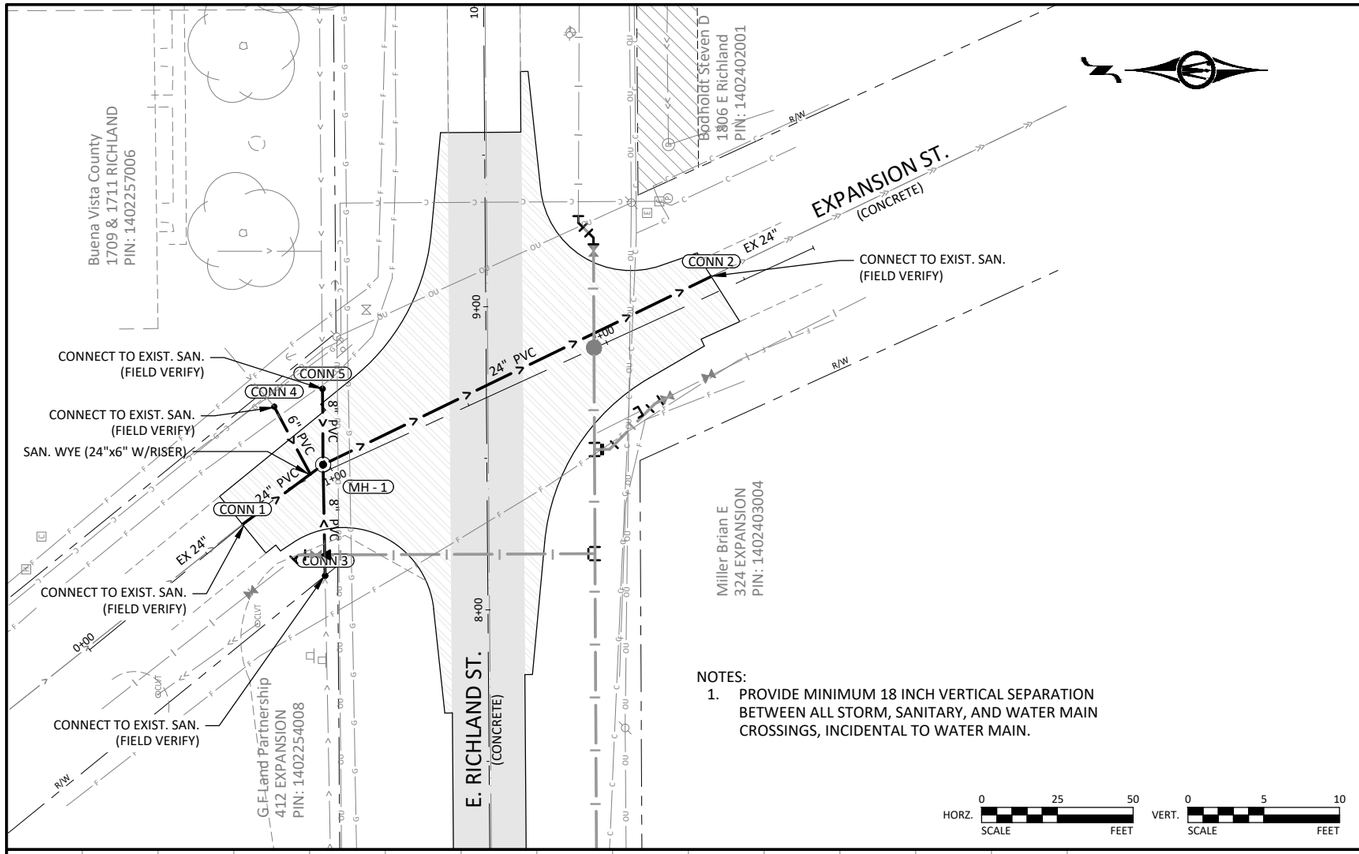
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER M.07	REVISED

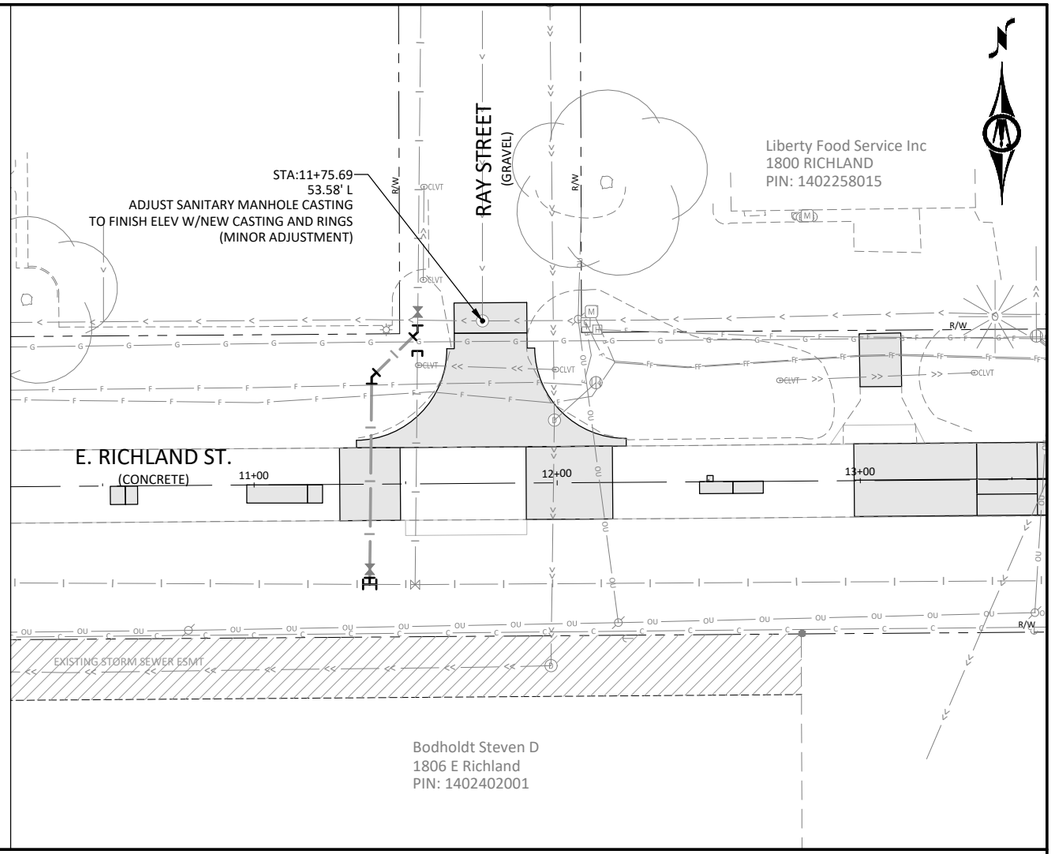


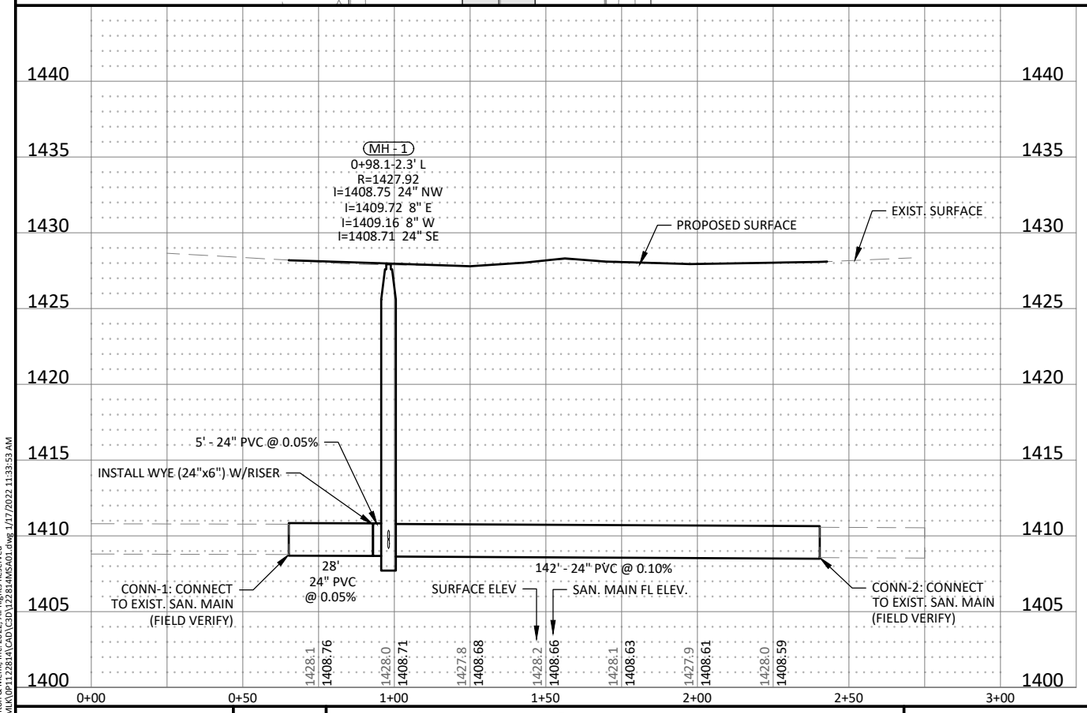
NOTES:

1. PROVIDE MINIMUM 18 INCH VERTICAL SEPARATION BETWEEN ALL STORM, SANITARY, AND WATER MAIN CROSSINGS, INCIDENTAL TO WATER MAIN.

HORZ. SCALE 0 25 50 FEET

VERT. SCALE 0 5 10 FEET





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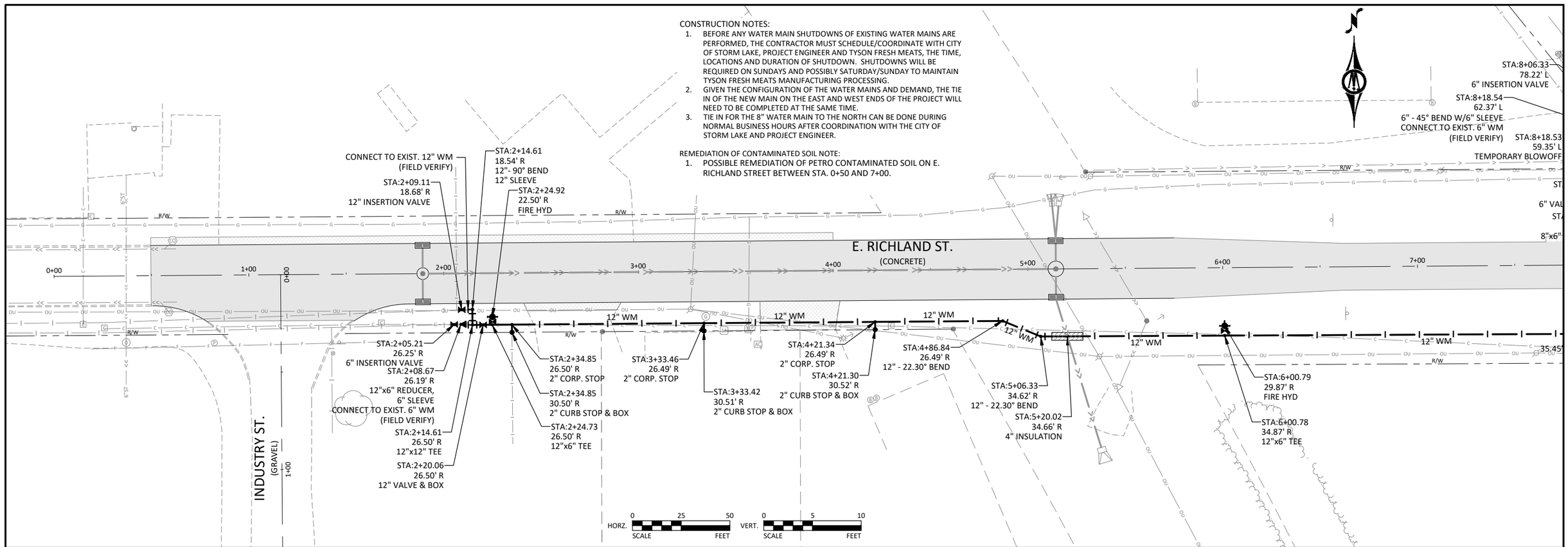
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER MSA.01	REVISED

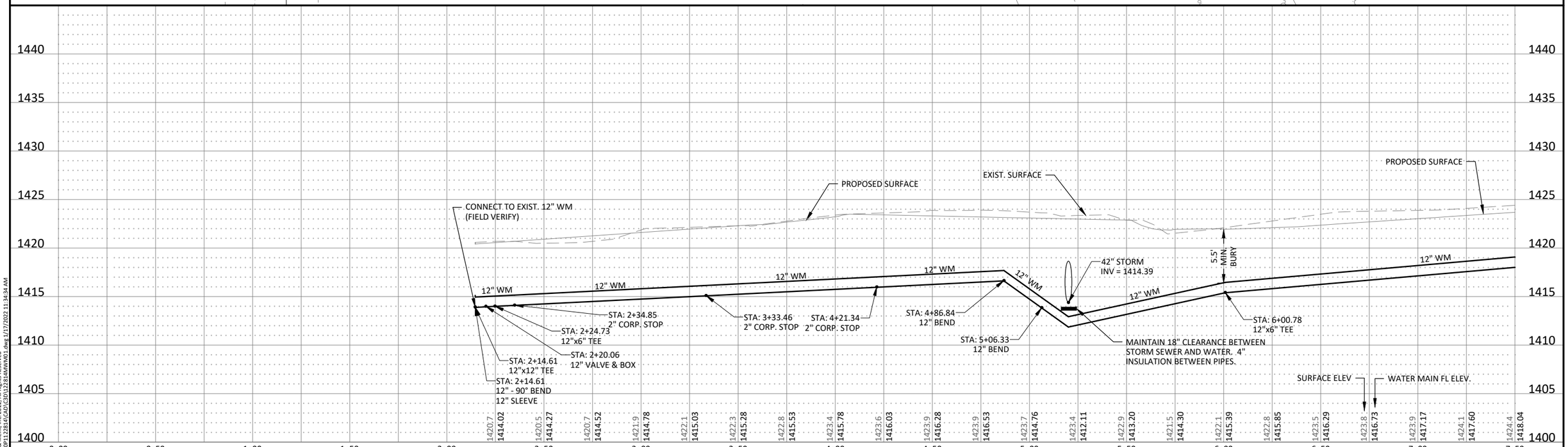
CONSTRUCTION NOTES:

1. BEFORE ANY WATER MAIN SHUTDOWNS OF EXISTING WATER MAINS ARE PERFORMED, THE CONTRACTOR MUST SCHEDULE/COORDINATE WITH CITY OF STORM LAKE, PROJECT ENGINEER AND TYSON FRESH MEATS, THE TIME, LOCATIONS AND DURATION OF SHUTDOWN. SHUTDOWNS WILL BE REQUIRED ON SUNDAYS AND POSSIBLY SATURDAY/SUNDAY TO MAINTAIN TYSON FRESH MEATS MANUFACTURING PROCESSING.
2. GIVEN THE CONFIGURATION OF THE WATER MAINS AND DEMAND, THE TIE IN OF THE NEW MAIN ON THE EAST AND WEST ENDS OF THE PROJECT WILL NEED TO BE COMPLETED AT THE SAME TIME.
3. TIE IN FOR THE 8" WATER MAIN TO THE NORTH CAN BE DONE DURING NORMAL BUSINESS HOURS AFTER COORDINATION WITH THE CITY OF STORM LAKE AND PROJECT ENGINEER.

REMEDIATION OF CONTAMINATED SOIL NOTE:

1. POSSIBLE REMEDIATION OF PETRO CONTAMINATED SOIL ON E. RICHLAND STREET BETWEEN STA. 0+50 AND 7+00.





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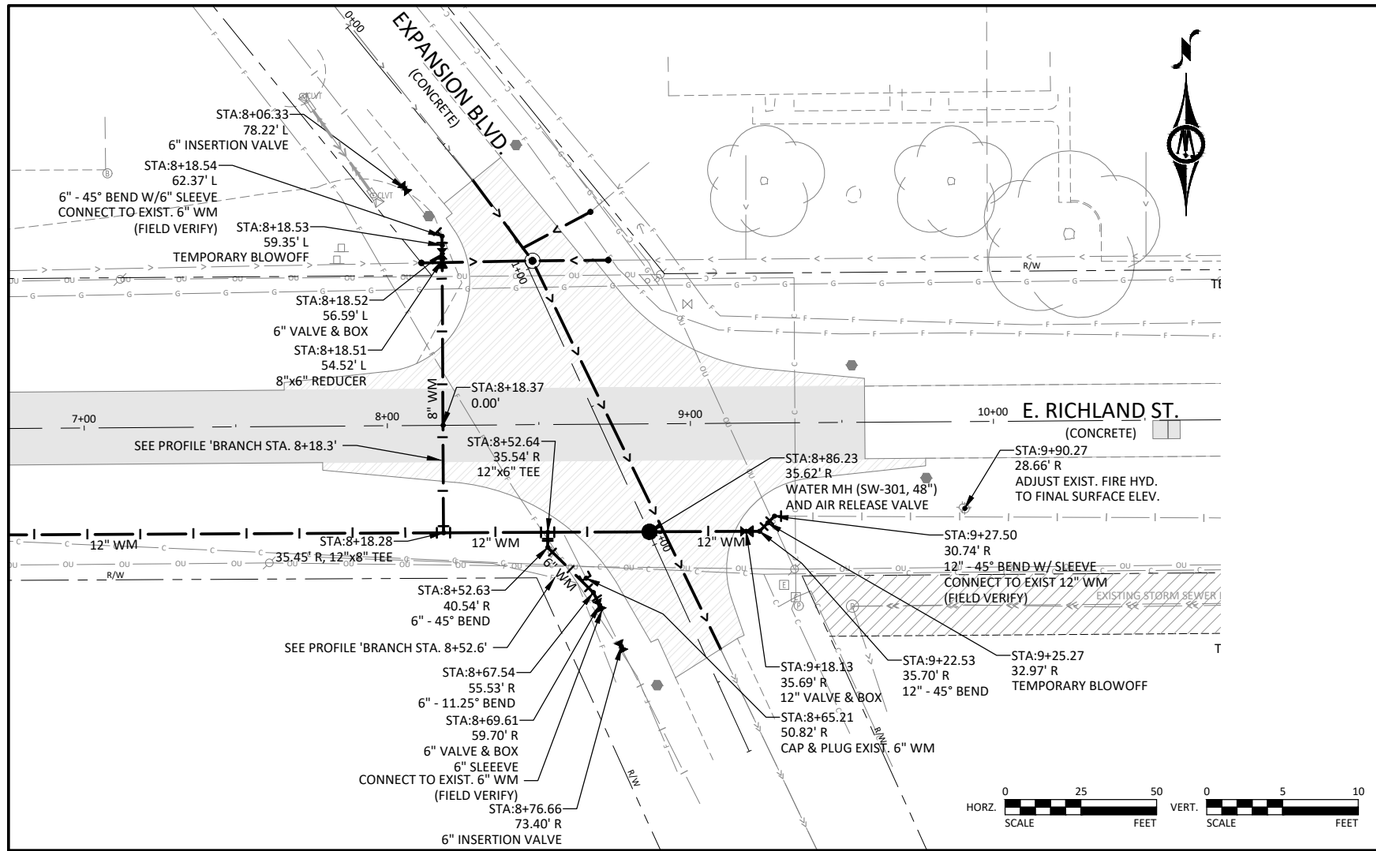
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER MWM.01	REVISED



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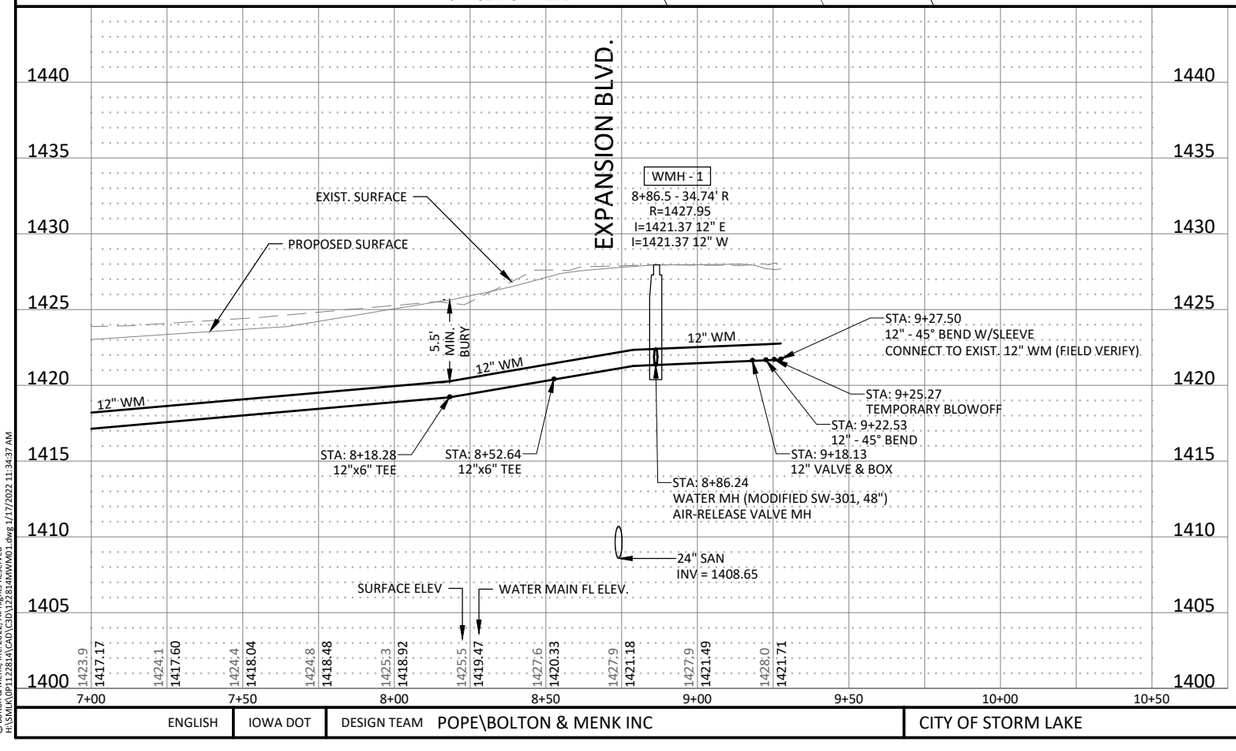
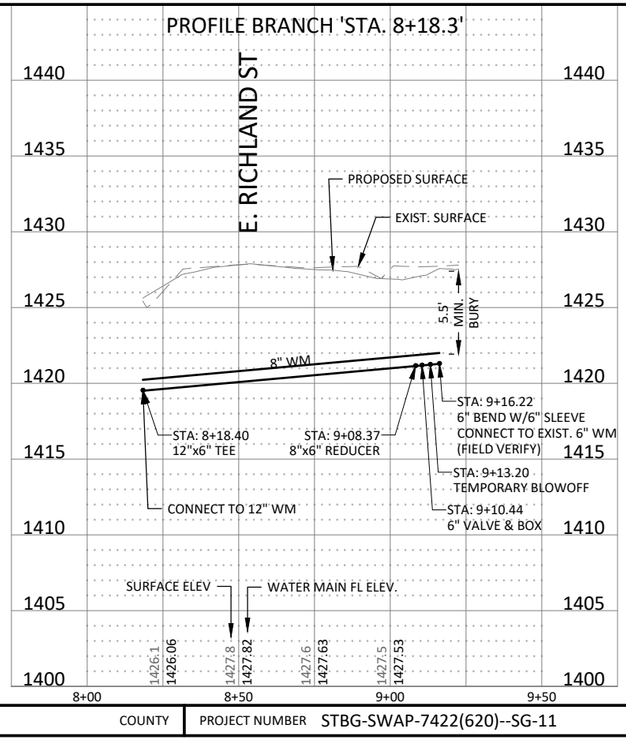
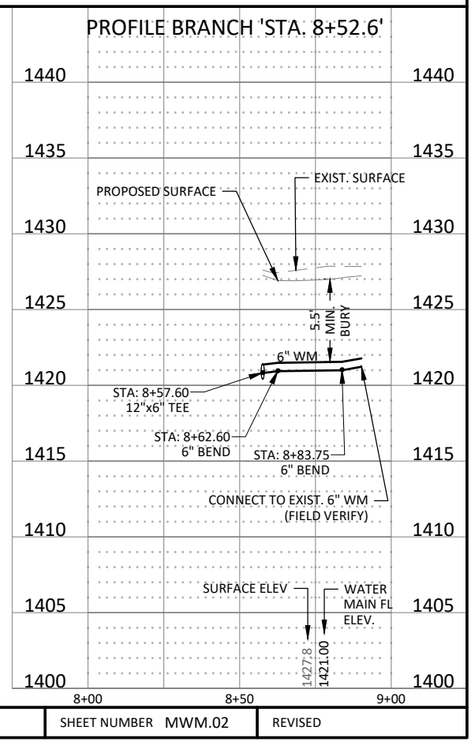
AIR RELEASE MANHOLE NOTE:

1. SEE SHEET B.03 FOR WATER MAIN MANHOLE, FOR HOUSING AIR RELEASE VALVE.







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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER MWM.02	REVISED

RAY STREET
(GRAVEL)

ROTHMOOR ROAD
(GRAVEL)

E. RICHLAND ST.
(CONCRETE)

STA:11+54.42
56.71' L
6" INSERTION VALVE

STA:11+54.30
50.49' L
6" - 45° BEND
6" - SLEEVE

STA:11+52.73
48.52' L
TEMPORARY BLOWOFF

STA:11+54.20
43.82' L
CAP & PLUG EXIST. 6" WM

STA:11+39.05
35.30' L
6" - 45° BEND

STA:11+38.46
0.00'

SEE PROFILE 'BRANCH STA. 11+38.5'

STA:11+37.91
33.07' R
12"x6" TAPPING SLEEVE

STA:11+37.99
28.07' R
6" VALVE & BOX

FIELD VERIFY EXIST. VALVE SIZE.
~~IF VALVE IS ON 6" MAIN, CLOSE~~
TO ABANDON AND REMOVE BOX.
(INCIDENTAL TO WATER MAIN)

STA:13+84.00
33.45' R
ADJUST EXIST. FIRE HYD.
TO FINAL SURFACE ELEV.

STA:17+59.02
26.77' R
ADJUST EXIST. FIRE HYD.
TO FINAL SURFACE ELEV.

HORZ. SCALE 0 25 50 FEET
VERT. SCALE 0 5 10 FEET

CONSTRUCTION NOTES:
1. BEFORE ANY WATER MAIN SHUTDOWNS OF EXISTING WATER MAINS ARE PERFORMED, THE CONTRACTOR MUST SCHEDULE/COORDINATE WITH CITY OF STORM LAKE, PROJECT ENGINEER AND TYSON FRESH MEATS, THE TIME, LOCATIONS AND DURATION OF SHUTDOWN. SHUTDOWNS WILL BE REQUIRED ON SUNDAYS AND POSSIBLY SATURDAY/SUNDAY TO MAINTAIN TYSON FRESH MEATS MANUFACTURING PROCESSING.
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PROFILE BRANCH 'STA. 11+38.5'

E. RICHLAND ST

PROPOSED SURFACE

EXIST. SURFACE

5.5' MIN. BURY

6" WM

6" WM

STA: 11+38.50
12"x6" TAPPING SLEEVE
CONNECT TO EXIST. 12"WM
(FIELD VERIFY)

STA: 12+06.87
6" BEND

STA: 12+28.08
6" BEND
CONNECT TO EXIST. 6" WM
(FIELD VERIFY)

SURFACE ELEV

WATER MAIN FL ELEV.

	11+00	11+50	12+00	12+50
SURFACE ELEV	1426.8	1427.6	1425.6	1425.2
WATER MAIN FL ELEV.	1418.13	1417.86	1417.59	1418.80

1440 1435 1430 1425 1420 1415 1410 1405 1400

E. RICHLAND ST.
(CONCRETE)

STA:21+50.32
26.30' R
ADJUST EXIST. FIRE HYD.
TO FINAL SURFACE ELEV.

STA:24+98.50
22.99' R
ADJUST EXIST. FIRE HYD.
TO FINAL SURFACE ELEV.

RADIO ROAD
(CONCRETE)

1113

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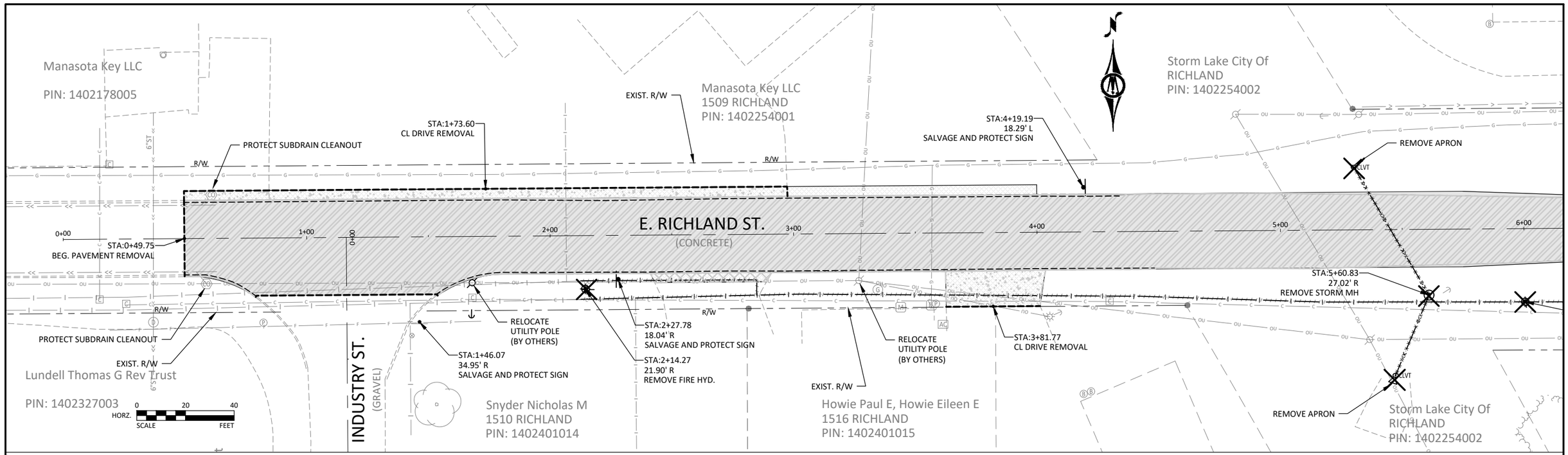
ENGLISH	IOWA DOT	DESIGN TEAM	POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER	STBG-SWAP-7422(620)--SG-11	SHEET NUMBER	MWM.03	REVISED



REMOVE STRUCTURE

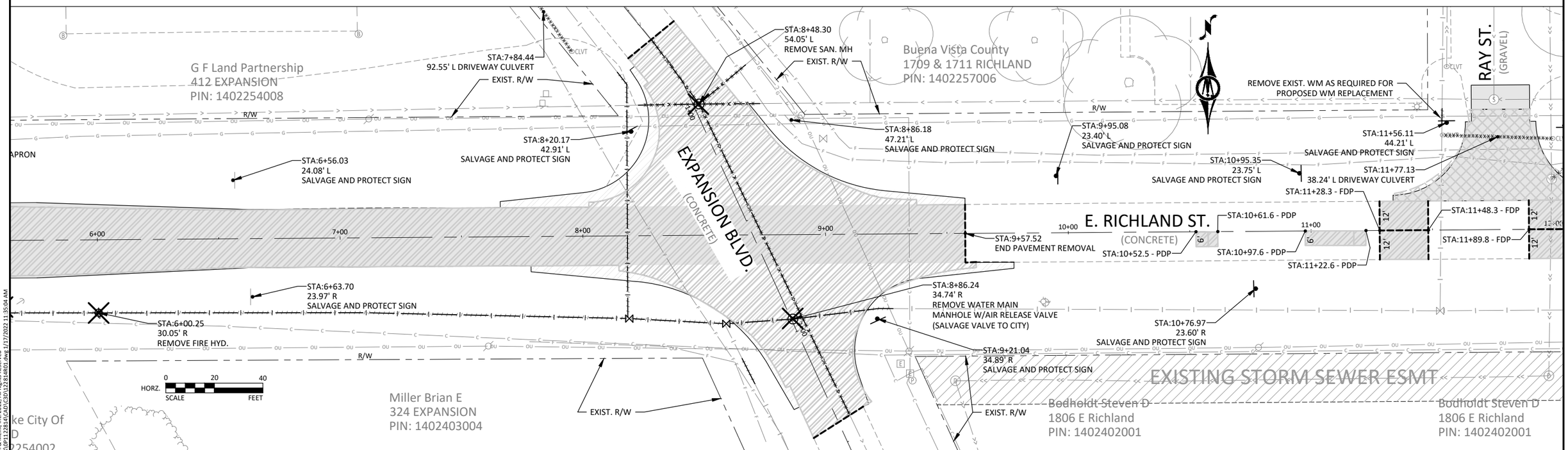
REMOVE CONC. PAVEMENT

REMOVE CONC. DRIVEWAY

REMOVE GRAVEL DRIVEWAY

REMOVE OR ABANDON WATER MAIN
REMOVE SANITARY SEWER
REMOVE STORM SEWER
FULL DEPTH SAWCUT
FDP FULL DEPTH PATCH REMOVAL
PDP PARTIAL DEPTH PATCH REMOVAL

CONSTRUCTION NOTE:
1. ABANDON AND PLUG ALL LENGTHS OF WATER MAIN PIPE NOT MARKED FOR REMOVAL.



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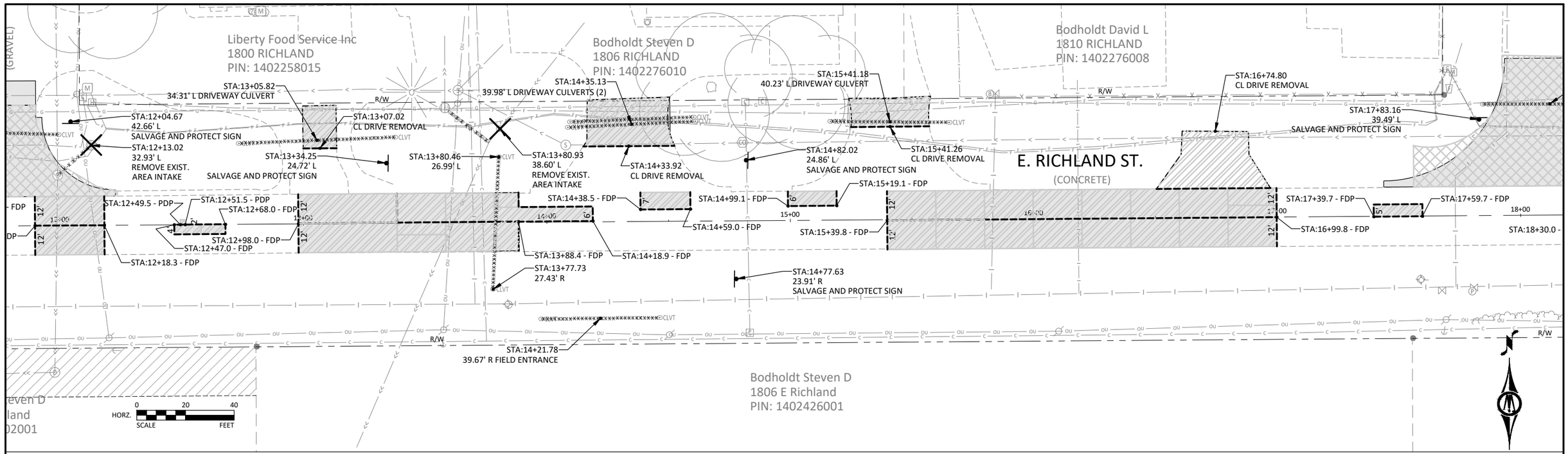
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER R.01	REVISED



REMOVE STRUCTURE

REMOVE CONC. PAVEMENT

REMOVE CONC. DRIVEWAY

REMOVE GRAVEL DRIVEWAY

REMOVE OR ABANDON WATER MAIN
REMOVE SANITARY SEWER
REMOVE STORM SEWER
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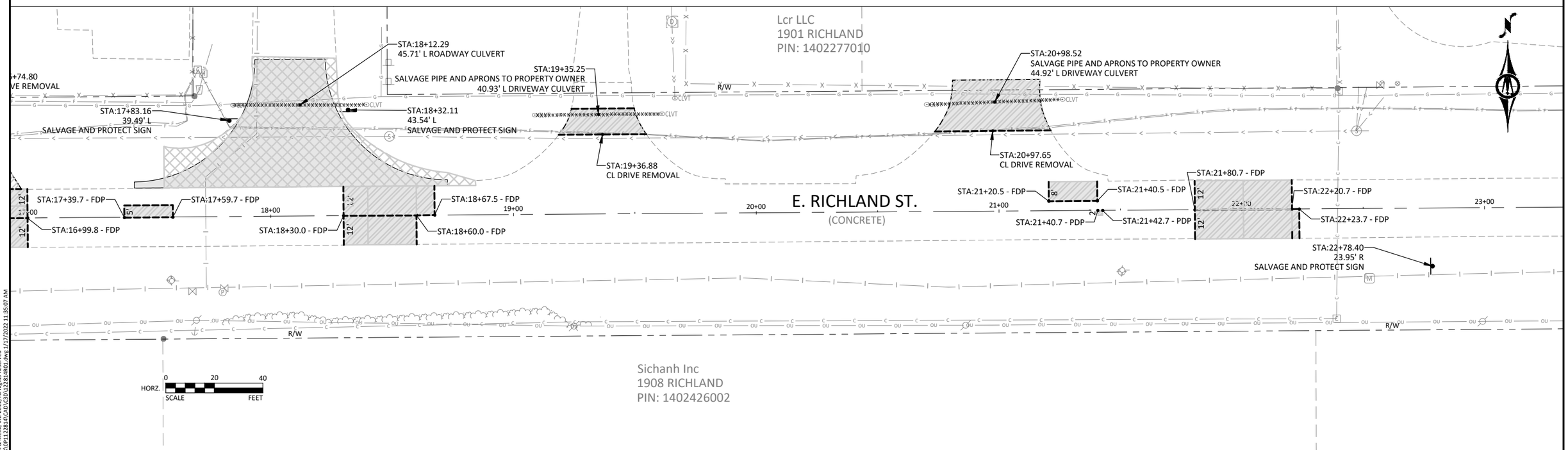

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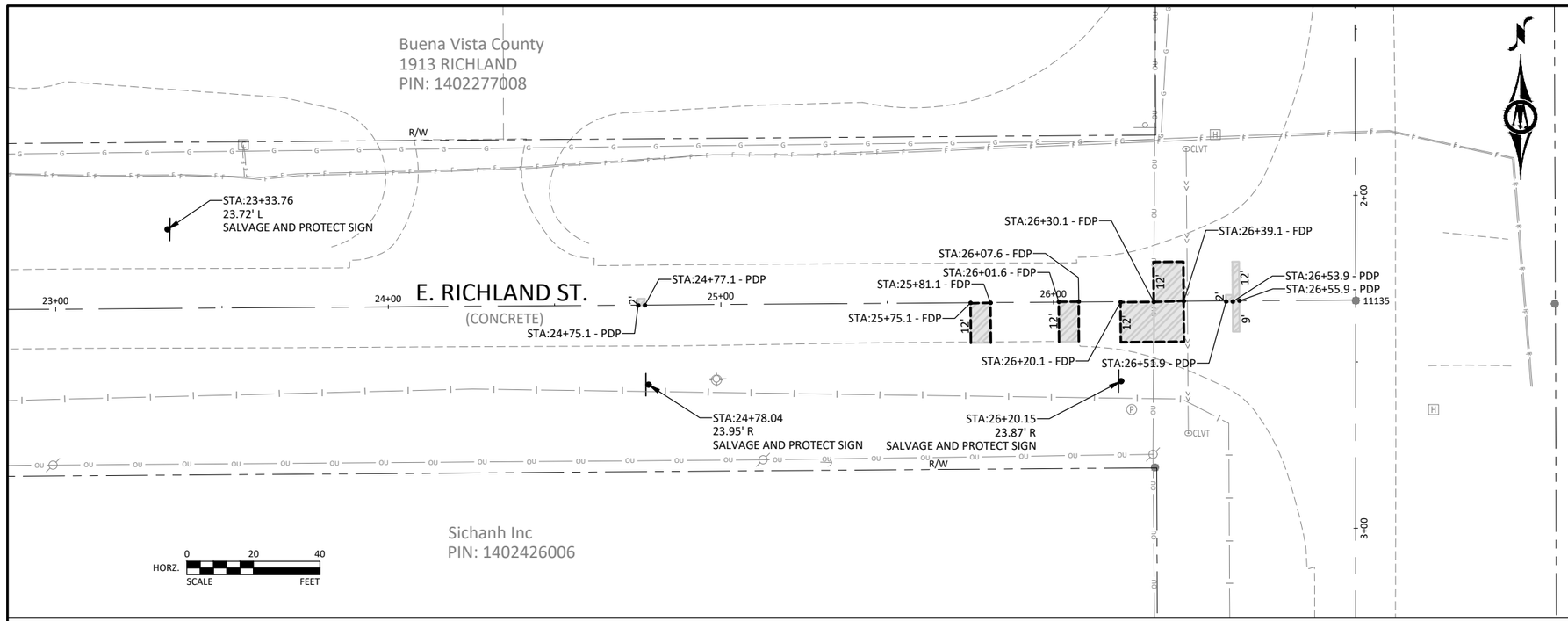
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER R.02	REVISED



REMOVE STRUCTURE

REMOVE CONC. PAVEMENT

REMOVE CONC. DRIVEWAY

REMOVE GRAVEL DRIVEWAY

REMOVE OR ABANDON WATER MAIN
REMOVE SANITARY SEWER
REMOVE STORM SEWER
FULL DEPTH SAWCUT

FDP FULL DEPTH PATCH REMOVAL
PDP PARTIAL DEPTH PATCH REMOVAL

CONSTRUCTION NOTE:
1. ABANDON AND PLUG ALL LENGTHS OF WATER MAIN PIPE NOT MARKED FOR REMOVAL.

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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	BUENA VISTA COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER R.03	REVISED

POLLUTION PREVENTION PLAN

This Data Entry Sheet fills Tab 110-12L effective 10-20-20

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITIES
- A. Designer:
  1. Prepares Base PPP included in the project plan.
  2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
  3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required.
- B. Contractor:
  1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
  2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
  3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
  4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).
  5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2.
  6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
  7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.
- C. Subcontractors:
  1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or performing work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
  2. Implement good housekeeping practices according to Paragraph III, C, 2.
- D. RCE/Project Engineer:
  1. Is Project Storm Water Manager.
  2. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
  3. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
  4. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
  5. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
  6. Is familiar with the Project PPP and storm water site map.
  7. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
  8. Is signature authority on Notice of Discontinuation.
  9. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).
  10. Makes information to determine permit compliance available to the DNR upon their request.
- E. Inspector:
  1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
  2. Makes information to determine permit compliance available to the DNR upon their request.
  3. Conducts joint required inspections of the site with the contractor/subcontractor.
  4. Completes an inspection report after each inspection.
  5. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION
- A. This Pollution Prevention Plan (PPP) is for the construction of a street and utilities.
- B. This PPP covers approximately 7.0 acres with an estimated 3.5 acres being disturbed. The portion of the PPP covered by this contract has 3.5 acres disturbed.
- C. The PPP is located in an area of Galva - Primghar soil association. The estimated weighted average runoff coefficient number for this PPP after completion will be 0.65.
- D. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including:
  1. Drainage Patterns – Plan and Profile sheets and Situation plans.
  2. Proposed Slopes – Cross Sections.
  3. Areas of Soil Disturbance – Construction limits shown on Plan and Profile sheets.
  4. Location of Structural Controls – Tabulations in C sheets.
  5. Locations of Non-structural Controls – Tabulations in C sheets.
  6. Locations of Stabilization Practices – Generally within construction limits shown on Plan and Profile sheets.
  7. Surface Waters (including wetlands) – Project Location Map and Plan and Profile sheets.
  8. Locations where Storm Water is Discharged – Plan and Profile sheets.
- E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries.
- F. Runoff from this work will flow into Strom Lake.

III. CONTROLS
- A. The Contractor's ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.
- B. Preserve vegetation in areas not needed for construction.
- C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water monitoring inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.
  1. EROSION AND SEDIMENT CONTROLS
     - a. Stabilization Practices
       1. Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
       2. Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
          - a. Permanently ceased on any portion of the site, or
          - b. Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
       3. Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
       4. Permanent and Temporary Stabilization practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets.
       5. Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
       6. Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Additional information may be found in Tabulations in the C or T sheets or is referenced in Section 2105 of Standard Specifications.
     - b. Structural Practices
       1. Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.
       2. Structural practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found in the B sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C sheets.
     - c. Storm Water Management
       1. Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets. The installation of these devices may be subject to Section 404 of the Clean Water Act.
  2. OTHER CONTROLS
     - a. Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive applicable laws, rules or regulations shall apply.
       1. Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
       2. Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
       3. Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
       4. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
       5. Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean-up spills and prevent material discharges to the storm drain system and waters of the state.
       6. Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
       7. Concrete Grooving/Grinding Slurry - Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
       8. Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
       9. Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
       10. Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.
  3. APPROVED STATE OR LOCAL PLANS

     During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES

The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS
- A. Inspections shall be made jointly by the Contractor and the Contracting Authority at least once every seven calendar days. Storm water monitoring inspections will include:
  1. Date of inspection.
  2. Summary of the scope of the inspection.
  3. Name and qualifications of the personnel making the inspection.
  4. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
  5. Major observations related to the implementation of the PPP.
  6. Identification of corrective actions required to maintain or modify erosion and sediment control measures.
- B. Include storm water site inspection reports in the amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS
- A. Base PPP - Initial Pollution Prevention Plan.
- B. Amended PPP - Base PPP amended during construcion. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.
- C. Fieldbook Entries – This contains the inspector's daily diary and bid item postings.
- D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
- E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature
Josh Pope, P.E.
Infrastructure Engineer

Signature
Scott Olesen
Water Quality and Code Compliance Director

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NOTES:

1. ALL CATCH BASINS AND INLETS, BOTH EXISTING AND PROPOSED, SHALL HAVE INLET PROTECTION INSTALLED PRIOR TO DISTURBANCE AND REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AS NECESSARY THROUGHOUT THE PROJECT.
3. QUANTITY FOR INLET PROTECTION IS BASED ON INLET PROTECTION NEEDED FOR EACH STRUCTURE DURING THE COURSE OF THE PROJECT.
4. ALL DISTURBED AREAS THAT WILL NOT BE WORKED FOR MORE THAN 14 CALENDAR DAYS SHALL BE STABILIZED.

INLET PROTECTION

SILT FENCE/SILT FENCE DITCH CHECK

PROPOSED DRAINAGE

EXISTING DRAINAGE

STABILIZED CONSTRUCTION ENTRANCE

WOOD EXCELSIOR MAT (DITCH & SLOPE CONTROL) SEED & FERTILIZE, URBAN

WOOD EXCELSIOR MAT (DITCH & SLOPE CONTROL) SEED & FERTILIZE, RURAL

E. RICHLAND ST. (CONCRETE)

INDUSTRY ST. (CONCRETE)

EXPANSION BLVD. (CONCRETE)

STA:3+99.90 15.54' L

STA:5+16.43 36.08' L

STA:5+29.00 28.11' L

STA:5+12.22 37.04' L

STA:7+73.83 107.17' L

END CLASS 'E' RIP RAP STA:307+23.25 0.00'

STA:307+19.80 18.32' R

STA:5+45.20 91.92' R

STA:307+20.58 17.53' L

0 20 40 HORZ. SCALE FEET

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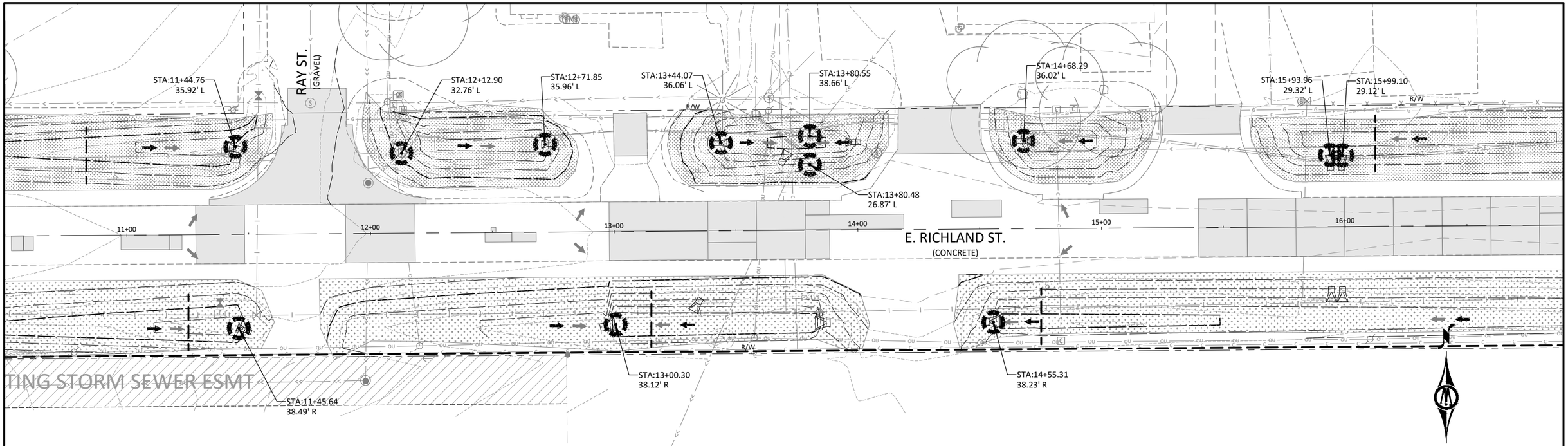

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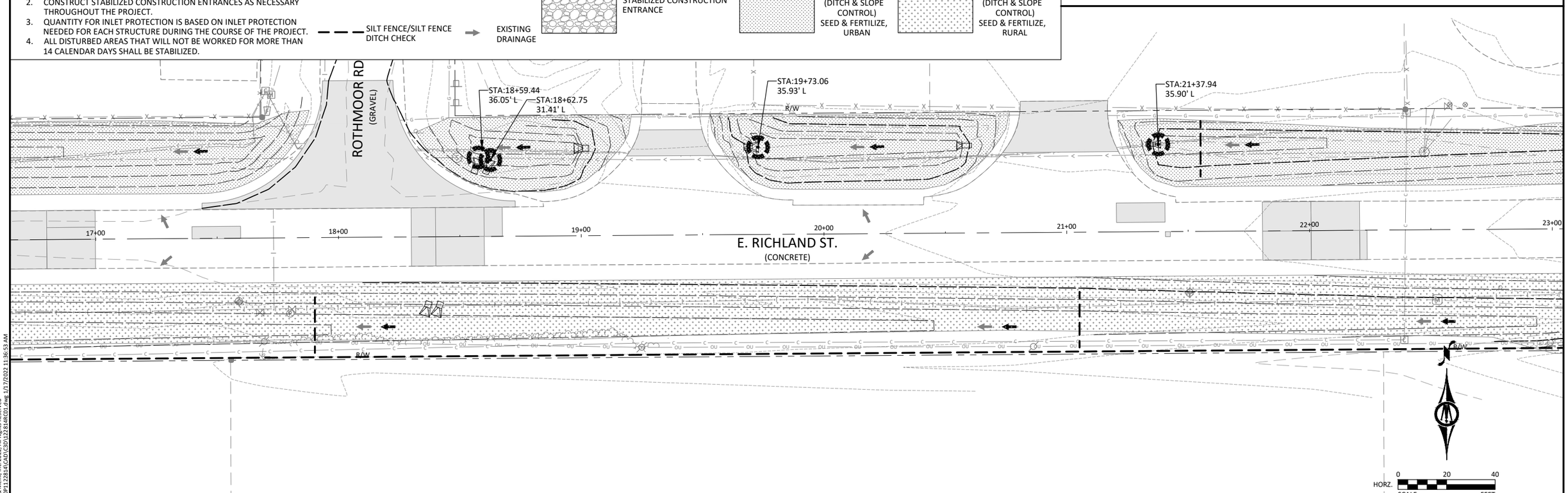
WOOD EXCELSIOR MAT (DITCH & SLOPE CONTROL) SEED & FERTILIZE, RURAL



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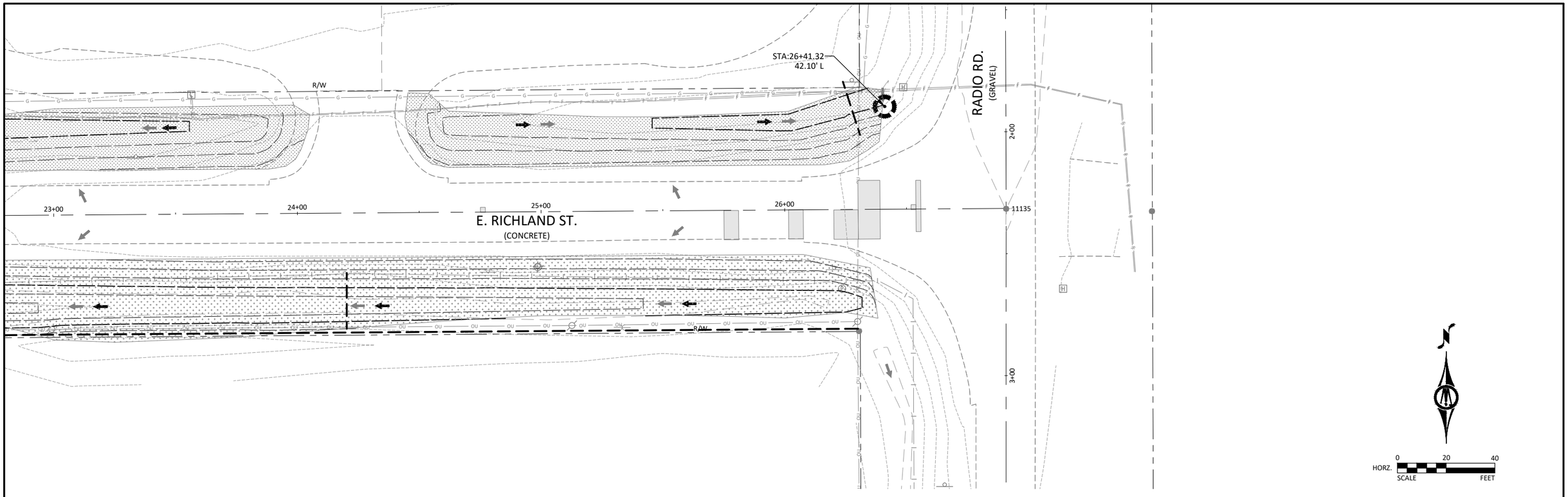

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EXISTING DRAINAGE

STABILIZED CONSTRUCTION ENTRANCE

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WOOD EXCELSIOR MAT (DITCH & SLOPE CONTROL) SEED & FERTILIZE, RURAL

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WOOD EXCELSIOR MAT (DITCH & SLOPE CONTROL) SEED & FERTILIZE, RURAL

HORZ. SCALE 0 20 40 FEET

300+00 301+00 302+00 303+00 304+00 305+00 306+00 307+00 308+00 5+00 6+00

PL

CLASS 'E' REVETMENT PLACEMENT

STA:307+07.85
16.87' L

STA:307+20.58
17.53' L

BEG. CLASS 'E' RIP RAP
STA:307+01.71
0.00'

STA:307+08.38
16.53' R

STA:307+19.80
18.32' R

END CLASS 'E' RIP RAP
STA:307+23.25
0.00'

E. RICHLAND ST. (CONCRETE)

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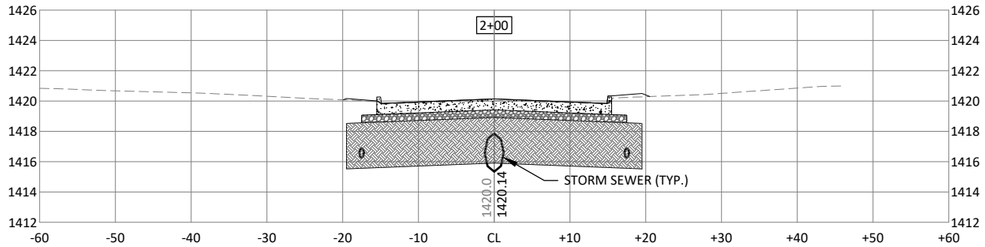

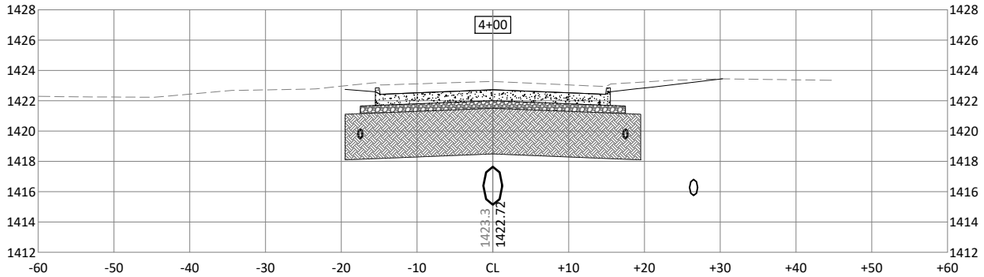

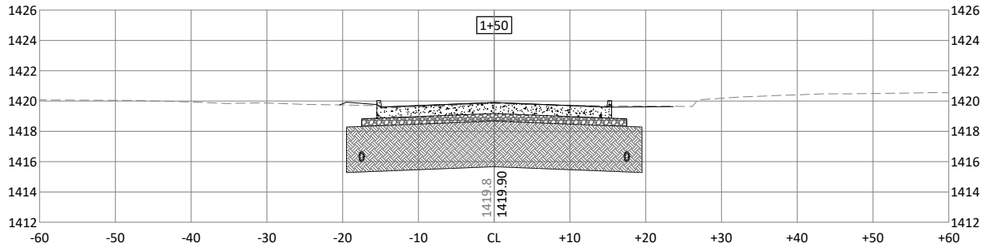

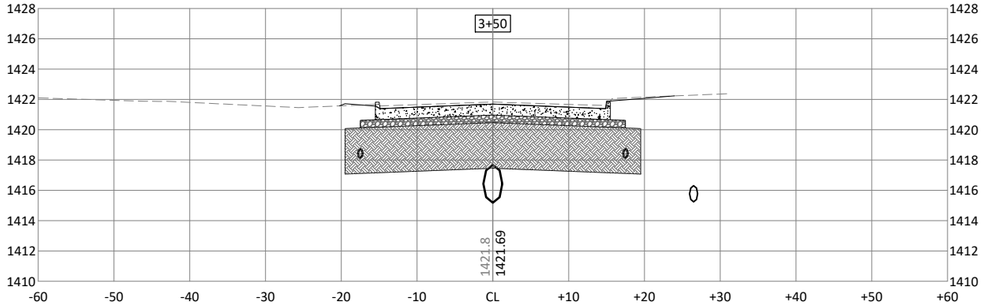

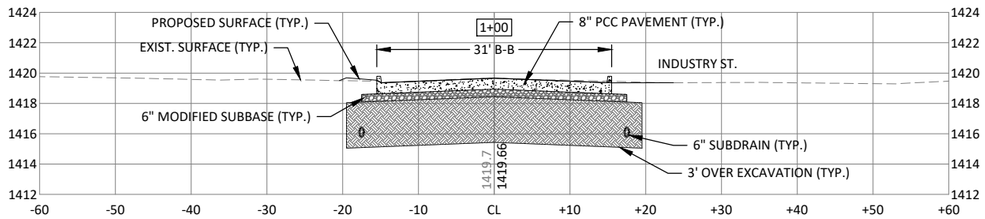

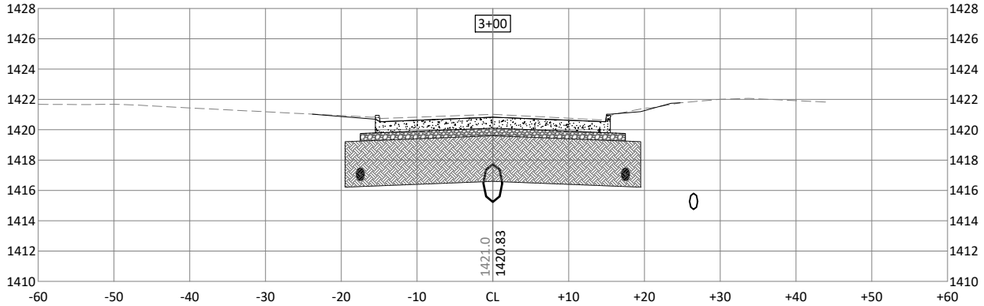

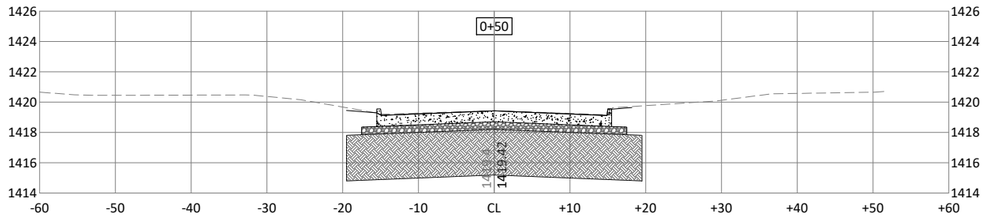

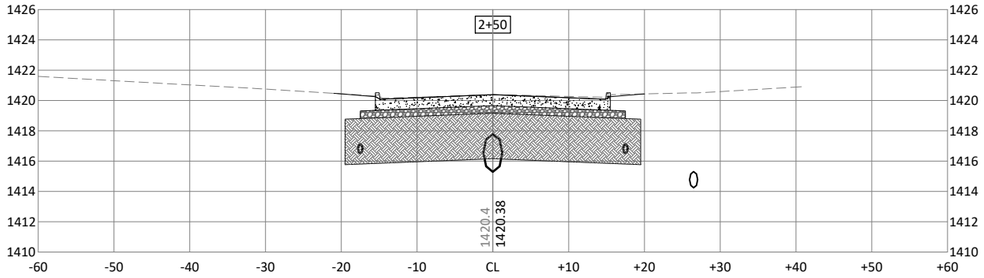

NOTES:
1. SEE SHEET B.01 FOR TYPICAL PAVEMENT SECTIONS.

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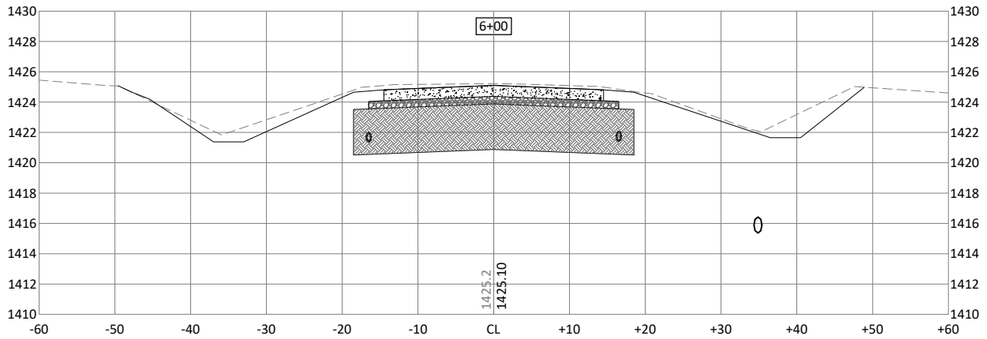
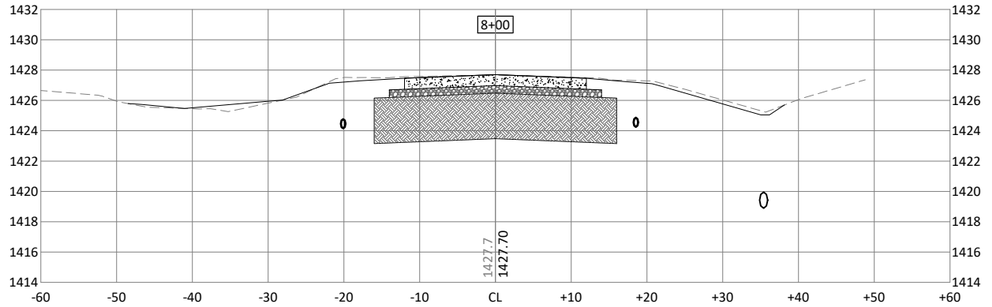
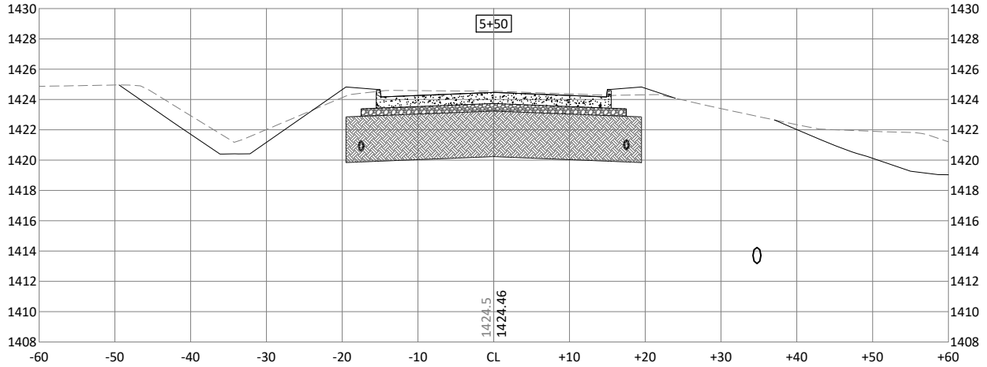
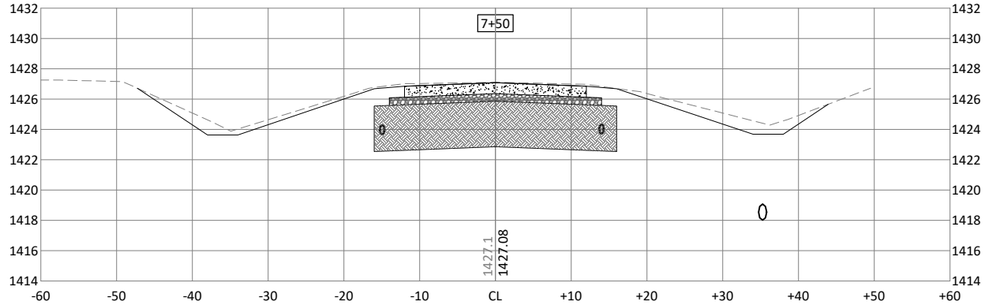
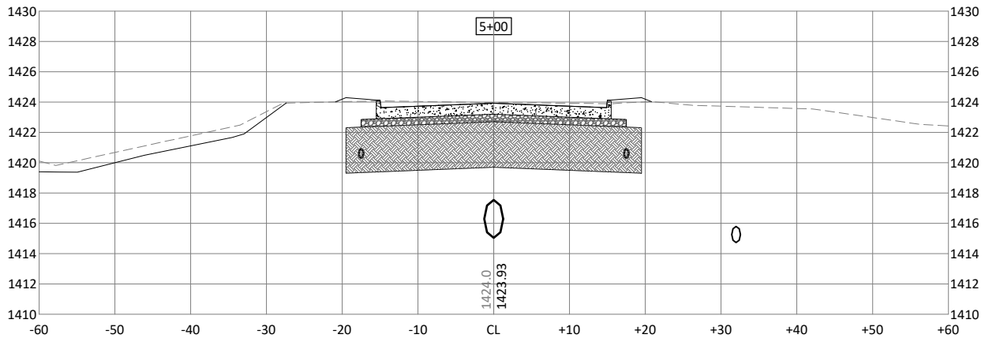
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER W.01	REVISED

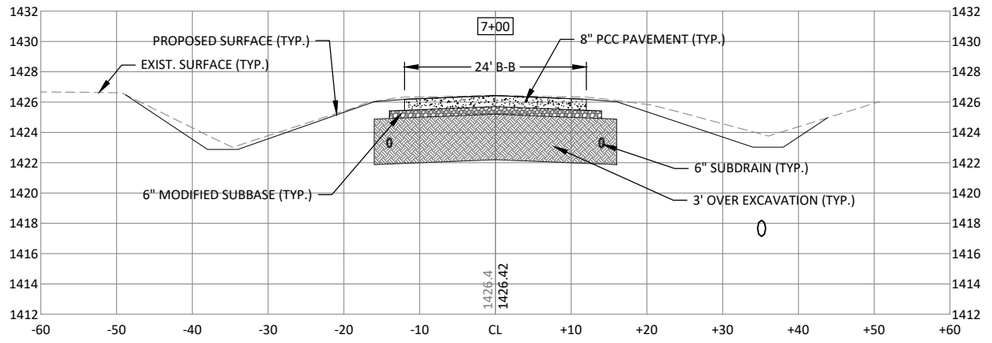


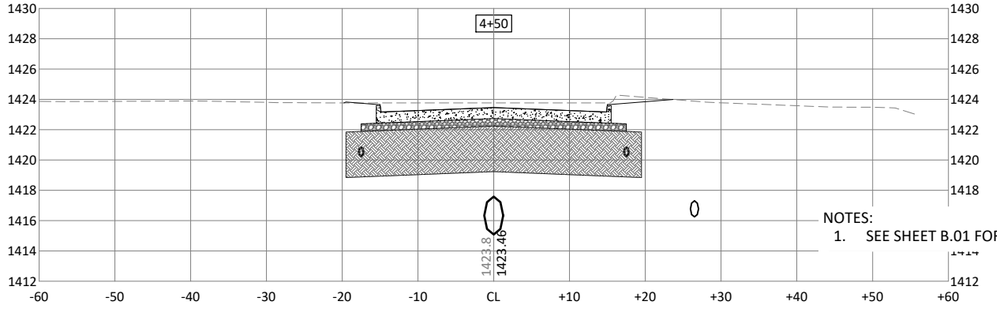


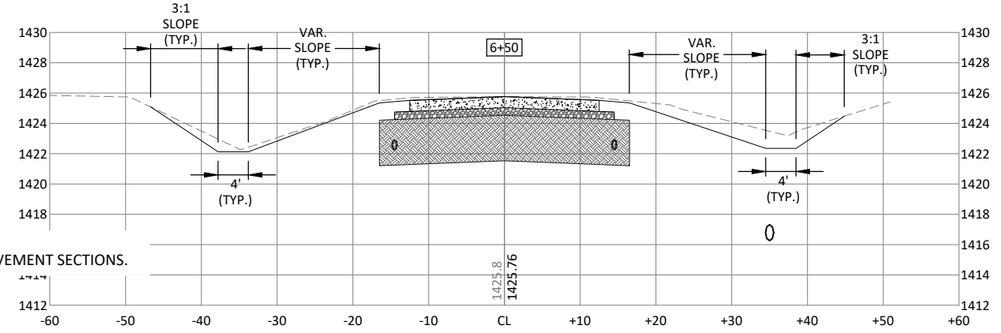












NOTES:
1. SEE SHEET B.01 FOR TYPICAL PAVEMENT SECTIONS.

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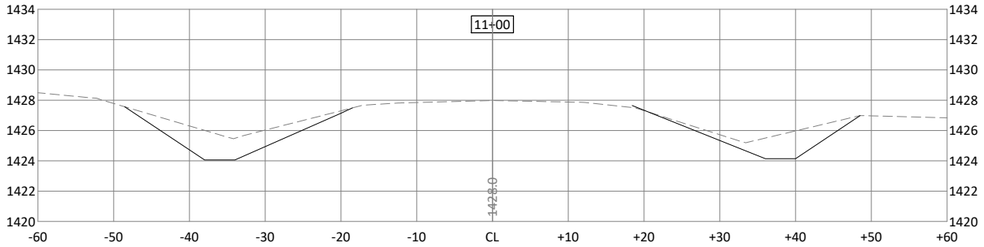

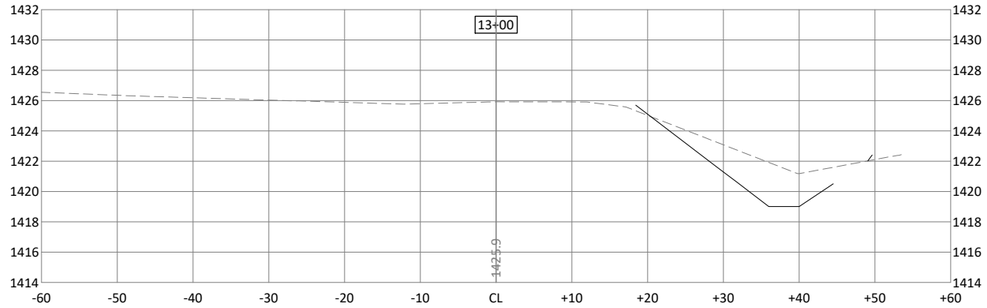

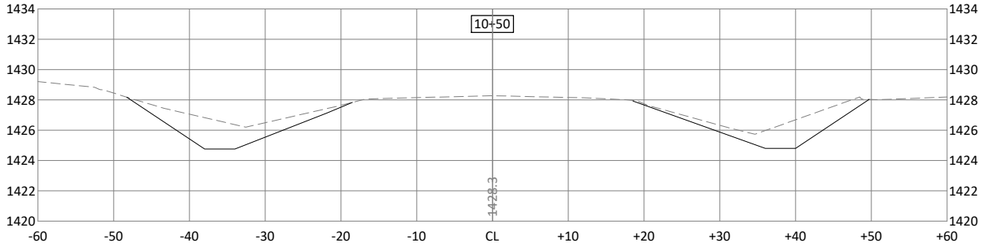

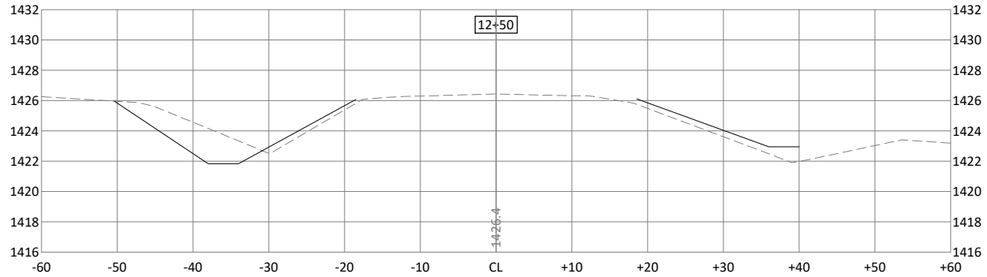

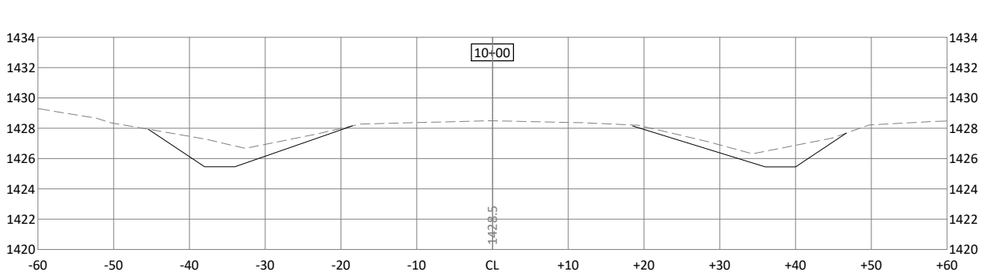

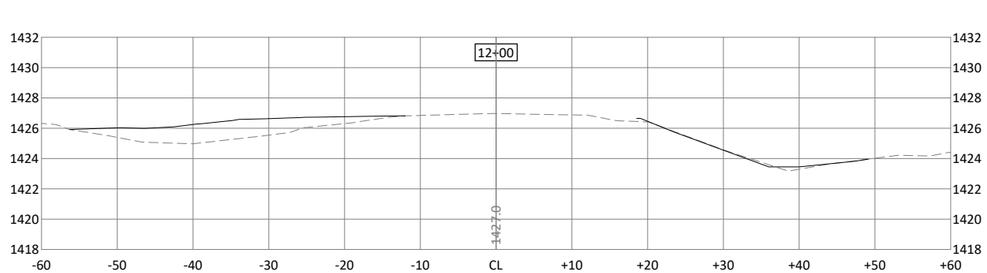

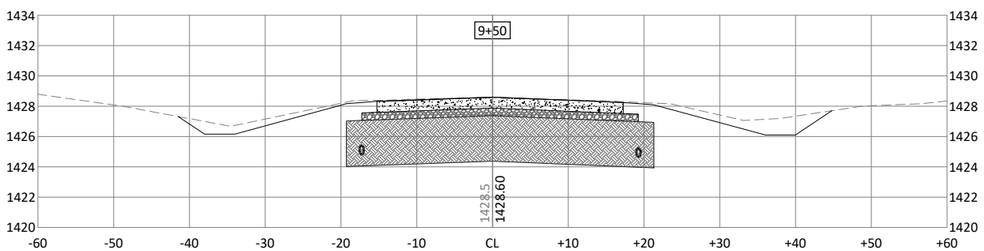

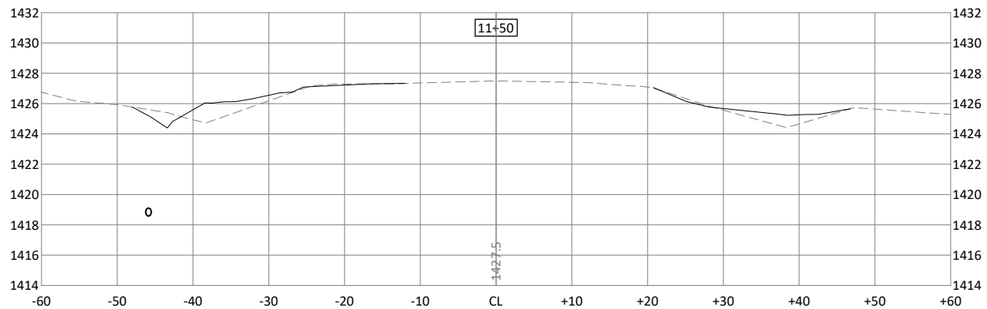

NOTES:
1. SEE SHEET B.01 FOR TYPICAL PAVEMENT SECTIONS.

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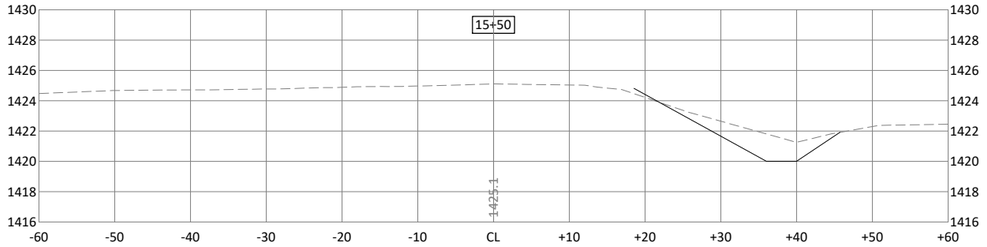
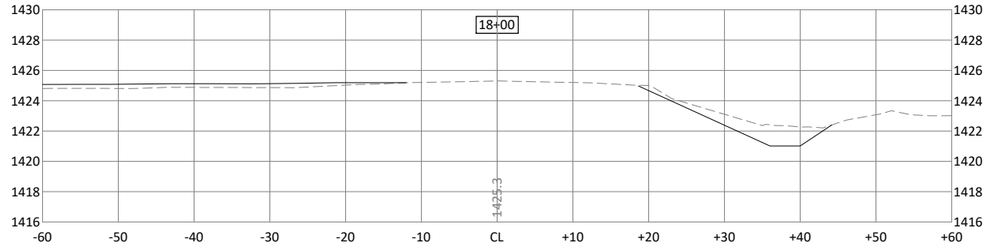
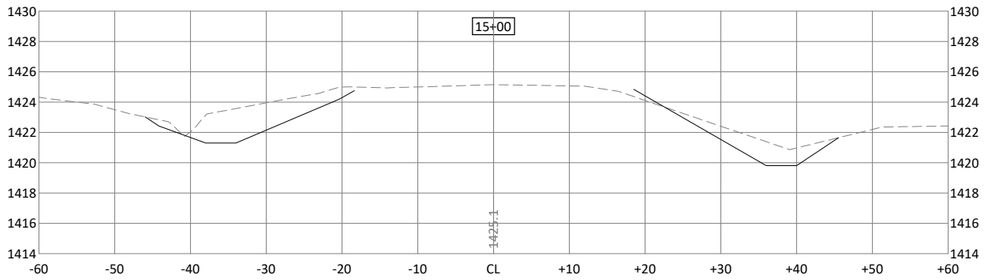
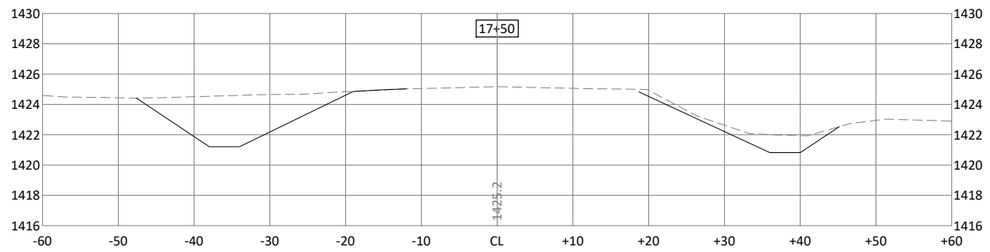
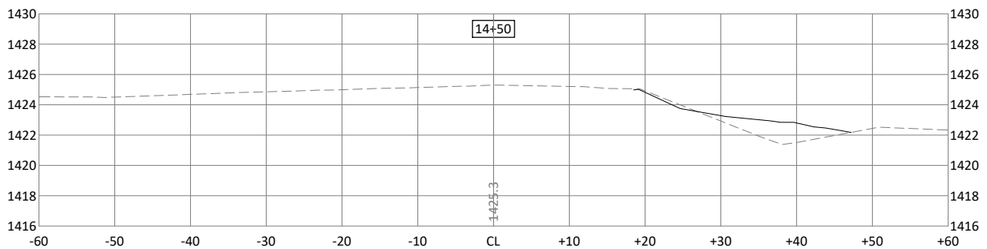
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER W.03	REVISED

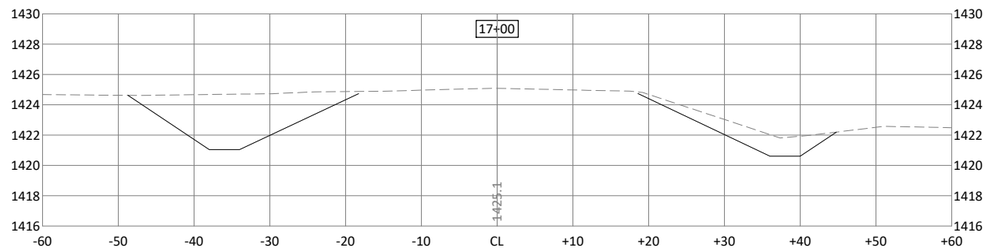


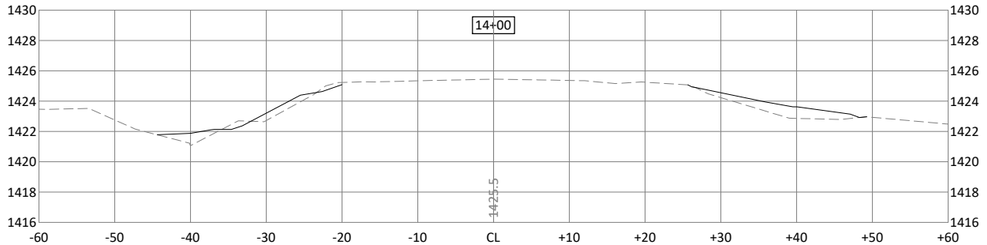


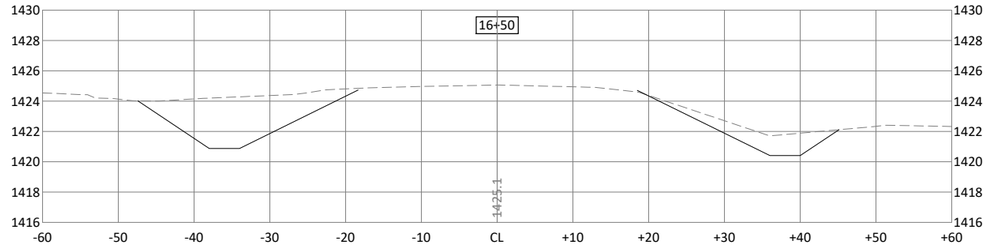


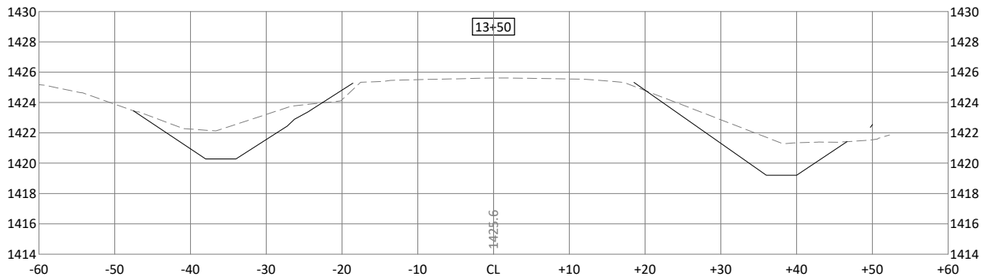


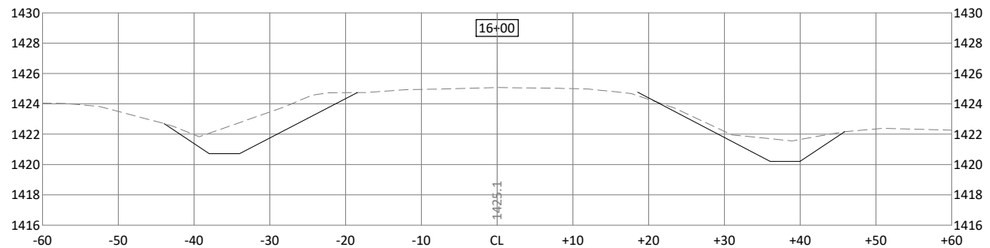












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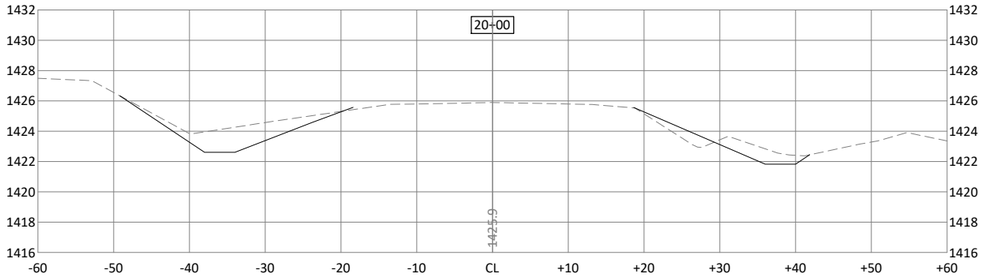
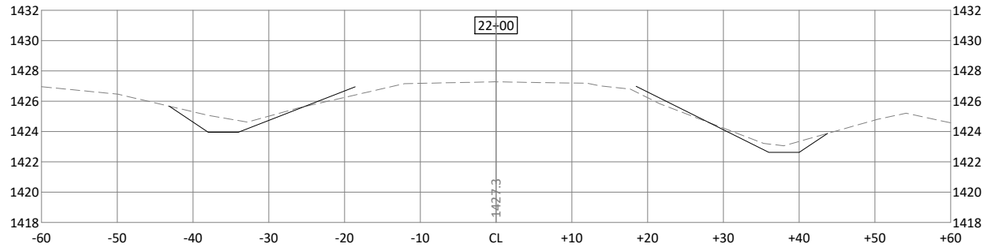
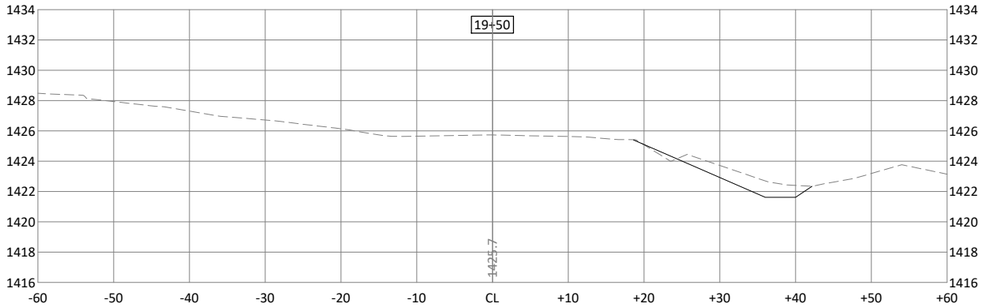
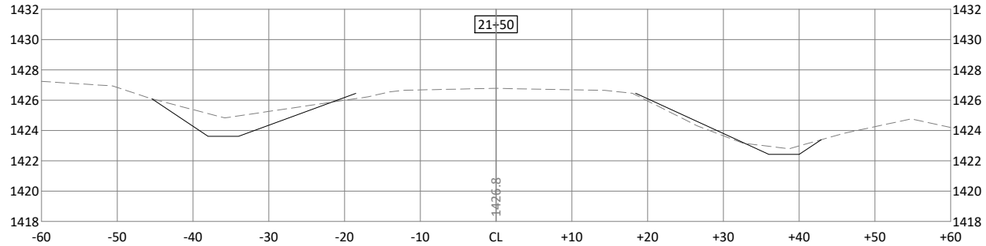
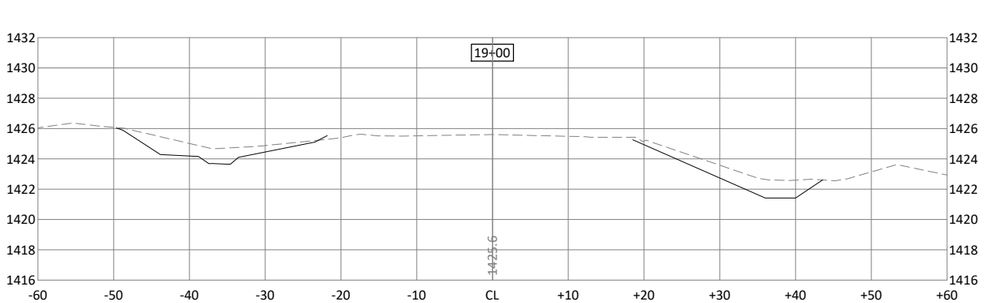
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER W.04	REVISED

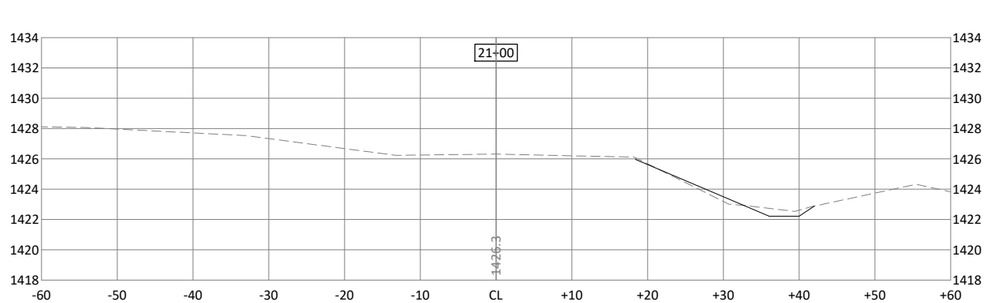


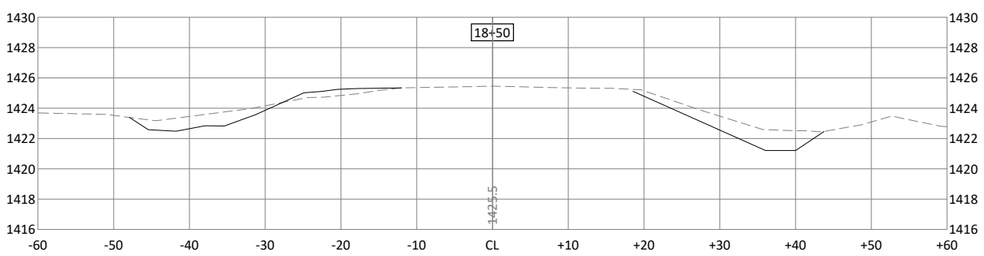


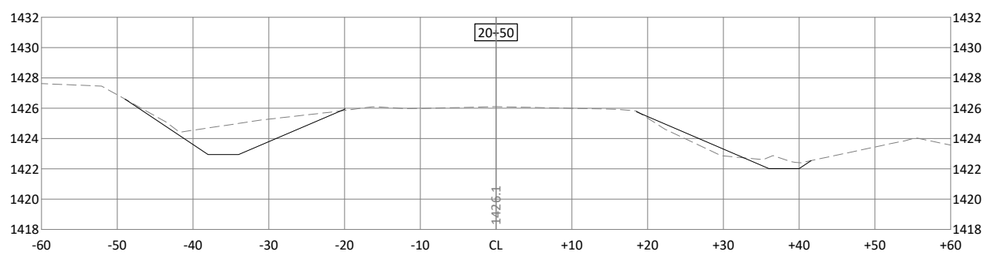












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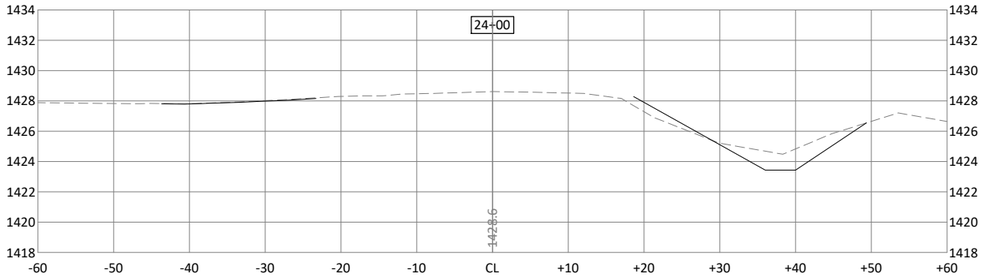
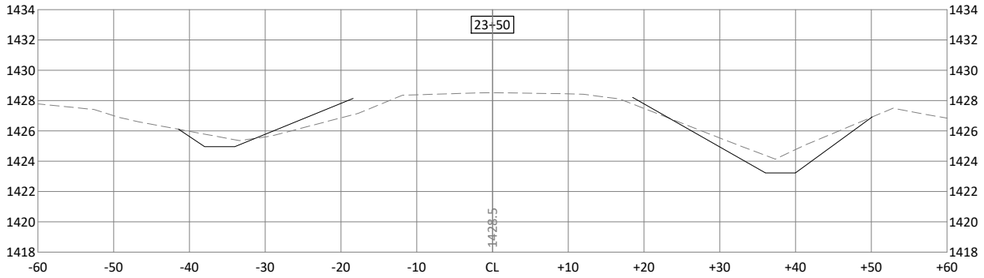
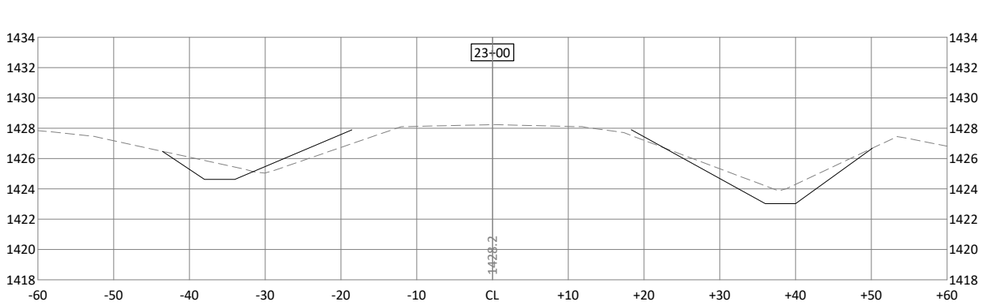
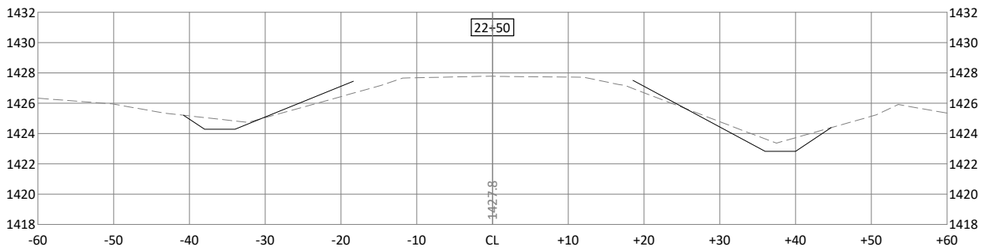
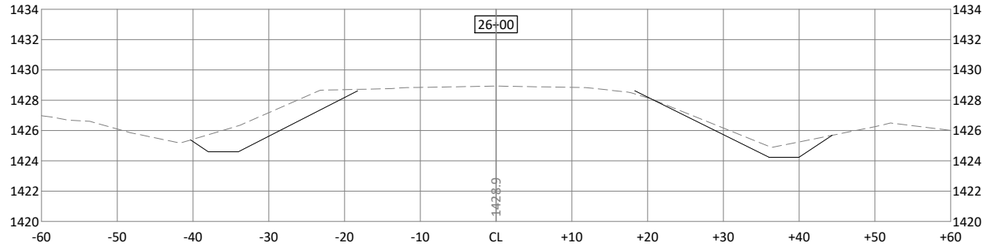
ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER W.05	REVISED

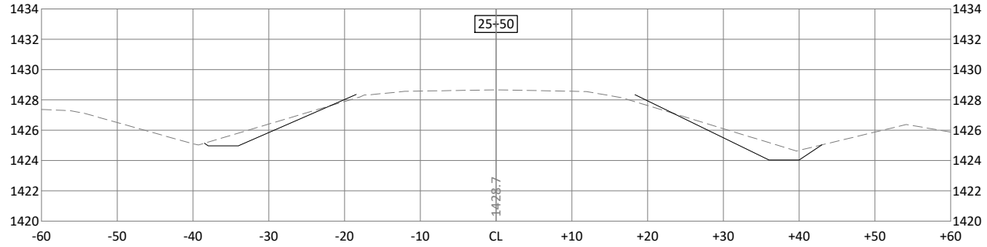


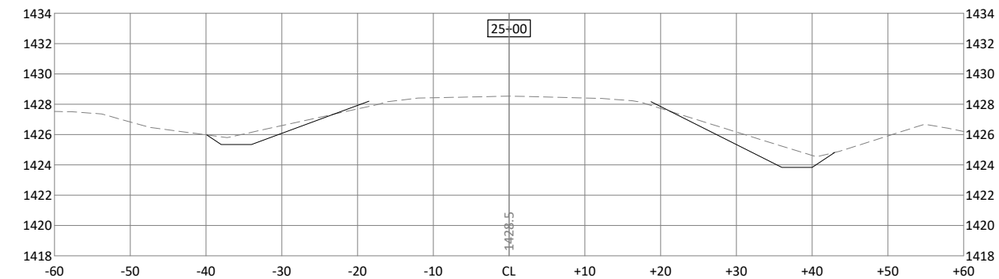


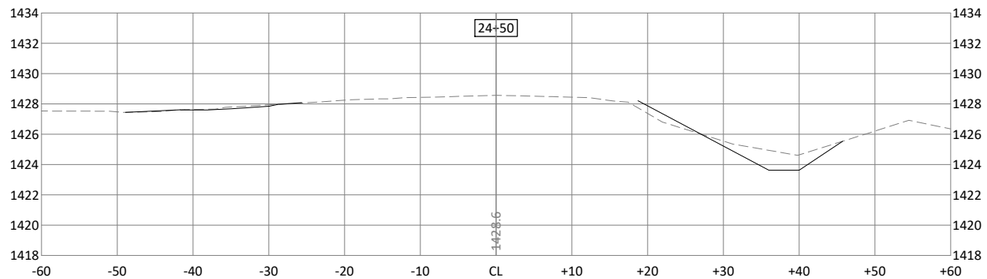












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ENGLISH	IOWA DOT	DESIGN TEAM POPE\BOLTON & MENK INC	CITY OF STORM LAKE	COUNTY	PROJECT NUMBER STBG-SWAP-7422(620)--SG-11	SHEET NUMBER W.06	REVISED

BOLTON & MENK
Real People. Real Solutions.

218 11th Street SW Plaza
Spencer, IA 51301

Ph: (712) 580-5075
Bolton-Menk.com

May 6, 2022

City of Storm Lake
Attn: Dave Derragon
620 Erie Street
Storm Lake, Iowa 50588

Re: Recommendation of Award
East Richland Street Improvements, Phase 2
Iowa DOT Project No.: STBG-SWAP-7422(620)--SG-11
City of Storm Lake, Iowa
Bolton & Menk Project No. 0P1.122814

Dear Mr. Derragon:

Bids were received and opened by the Iowa Department of Transportation (IDOT) on Tuesday, April 19th, 2022 at 10:00 A.M. for the project referenced above. Two (2) bids were received, and the results are tabulated below:

	Total Bid
RP Constructors, LLC:	$1,994,771.76
Hulstein Excavating, Inc.	$2,436,879.55
Engineer's Estimate:	$1,583,053.30

The bidder's prices are more than 20% above the Engineer's Estimate. It is our opinion that the received bids were competitive and representative of the project's scope and timeframe requirements.

In accordance with the IDOT bidding policy, we are unable to communicate with prospective contractors regarding the bid results. Therefore, we cannot provide feedback on specifically why the received bids were higher than the estimate. It is our belief that the intended completion date, coupled with the relatively late construction start date, and the fact that construction material prices are very volatile at this time, may have all contributed to the higher bids.

As the bids were more than 20% over the Engineer's Estimate, it is believed that the as-bid project is not financially feasible. Therefore, it is recommended that the construction contract not be awarded at this time

Sincerely,

Bolton & Menk, Inc.

Josh Pope, PE, ENV SP, LEED AP BD+C
City Infrastructure Engineer

0P1.122814:JAP:csh

RESOLUTION NO. 77-R-2021-2022

RESOLUTION REJECTING BID FOR THE RICHLAND STREET PHASE 2 PROJECT

WHEREAS, the plans, specifications, form of contract, estimate of cost, and award bid were filed with the CITY for the construction of certain public improvements described in general as the Richland Street Phase 2 Project; and

WHEREAS, notice of hearing on plans, specifications, form of contract and estimate of cost for said public improvements was published as required by law.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF STORM LAKE, IOWA;

Section 1. That the bids received for the Richland Street Phase 2 Project are rejected.

PASSED AND APPROVED this 16th day of May, 2022.

_____

Michael Porsch, Mayor

ATTEST:

_____

Mayra A. Martinez, City Clerk

Staff Summary

5/16/2022
Agenda Item # 12.

City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM:

SUBJECT: **City Council Requested Items**

BACKGROUND: Future City Council Work Sessions:

1.

FISCAL IMPACT: No Fiscal Impact at this time.

RECOMMENDATION: Concurrence for each item to be considered for a specified City Council Meeting work session or deny work session consideration for the following items:

1. None at this time