

**ADDENDUM 1**

**CITY OF AMES**

**PROJECT:** Freel Drive Paving

**ADDENDUM NUMBER:** 1

**DATE:** March 25th, 2026

Carefully read the following changes to the Plans and Specifications for this project. After reading the changes, sign below to acknowledge receipt of this document and return it to the City Clerk’s Office (515 Clark Avenue). This receipt form must be submitted prior to the bid opening or with the bid form.

*Dean Sayre*

Dean Sayre, P.E.  
City of Ames – Public Works

ADDENDUM:

- I. THE FOLLOWING ARE REVISIONS TO THE PLANS:  
**REVISED BASE BID, REVISED ALTERNATE A TO ALTERNATE 1, ADDED ALTERNATE 2, AND ALTERNATE 3.**

Bidders shall use the attached Revised Plan Set with the additions of sheets B.03 and B.04 and revisions to sheets A.01, C.01, C.02, D.01, D.02, D.04, K.03, M.01, and M.02.

Item **5.7 Pressure Reducing Valve, Installation, complete**, has additional sheets B.03, B.04 and information regarding this installation.

Sidewalk from STA 37+04 to STA 13+50 is now included in Alternate 2

Sidewalk from STA 13+50 to STA 19+42.07 is now included in Alternate 3

- II. THE FOLLOWING ARE REVISIONS TO THE SPECIFICATIONS:  
**REVISED, PROPOSAL**  
Bidders shall use the attached Revised PROPOSAL FORM for the Specification Book pages 13 through 21. All revisions in section I. are reflected in the revised proposal attached.

- III. Any revisions to any of the Contract Documents made by this Addendum shall be considered as the same revision to any and all related areas of the Contract Documents not specifically called out in the Addendum.

**I hereby acknowledge receipt of this Addendum and recognize that my bid will not be opened unless this signed document is filed in the City Clerk’s Office prior to the letting as specified in the notice of public hearing and to bidders, or other contract documents OR submitted with my bid.**

SIGNED \_\_\_\_\_

TITLE \_\_\_\_\_

FIRM \_\_\_\_\_

DATE \_\_\_\_\_

LETTING DATE: April 8th, 2026

FREEL DRIVE STREET RECONSTRUCTION

AMES, IOWA

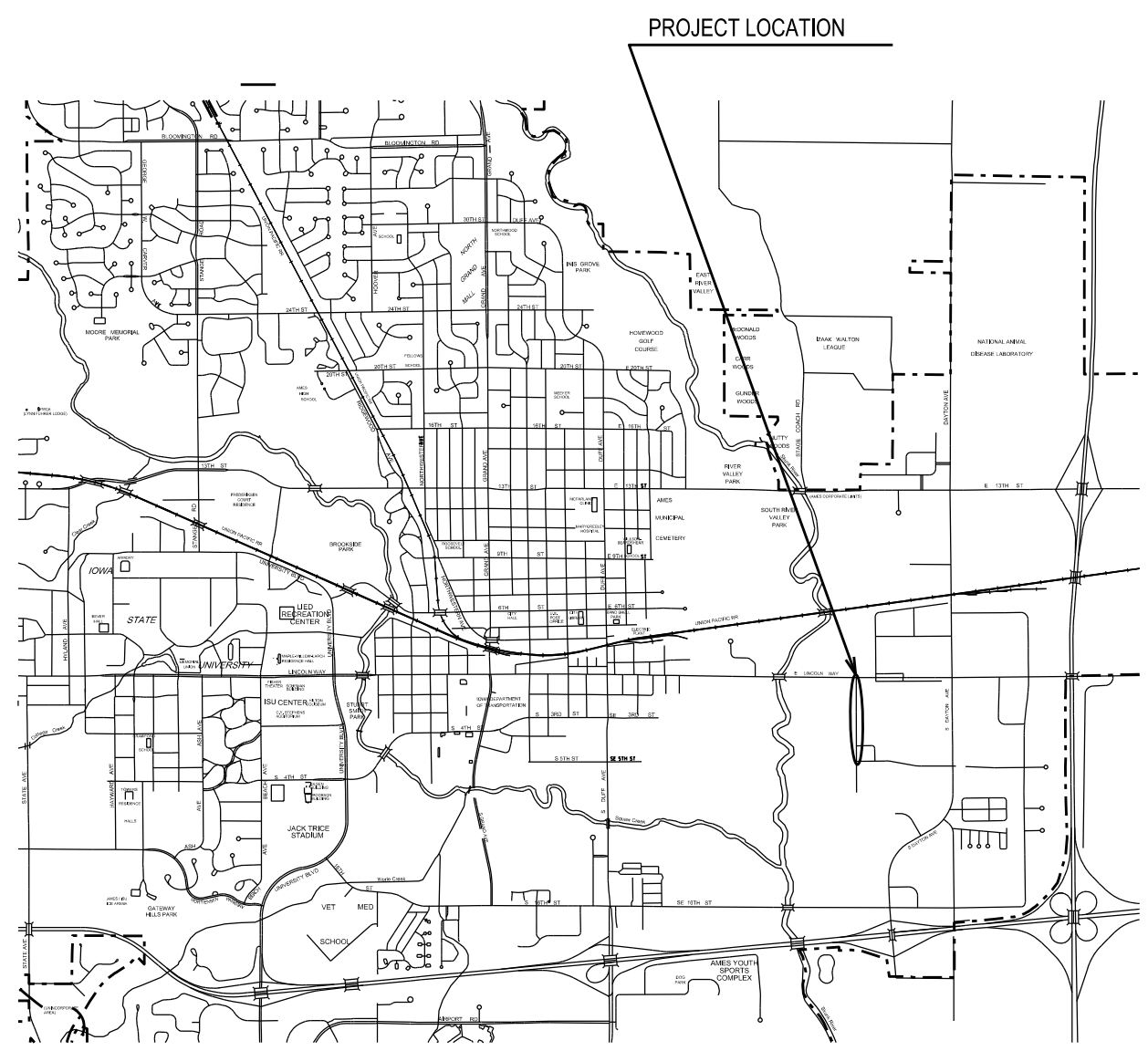
STORY COUNTY

# CITY OF AMES, IOWA

## FREEL DRIVE PAVING

### FREEL DRIVE (SE 5TH ST - E LINCOLN WAY)

All work and materials on this project shall conform to the current STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) and City of Ames Supplemental Specifications, unless otherwise noted on the plans or contract documents.



PROJECT NUMBER
387-8190-439
TOTAL SHEETS
31
Revised Sheets Addendum 1
A.01
B.03 - added
B.04 - added
C.01
C.02
D.01
D.02
D.04
K.03
M.01
M.02

#### INDEX OF SHEETS

NO.	DESCRIPTION
A.01 - A.02	TITLE SHEET, LEGEND
B.01 - B.02	TYPICAL DETAILS
C.01 - C.03	QUANTITIES, NOTES AND TABULATIONS
D.01 - D.04	PLAN & PROFILE
G.01 - G.03	REFERENCE TIES AND BENCH MARKS
J.01 - J.05	TRAFFIC CONTROL
K.01 - K.03	INTERSECTION DETAILS
M.01 - M.04	SANITARY, STORM PROFILE
N.01	TRAFFIC SIGNALIZATION
S.01 - S.02	SIDEWALK DETAILS



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

*Dean Sayre* 3/9/26  
 DEAN R. SAYRE DATE

Dean Sayre  
 PRINTED OR TYPED NAME

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2027

PAGES OR SHEETS COVERED BY THIS SEAL: All Sheets

FREEL DRIVE PAVING

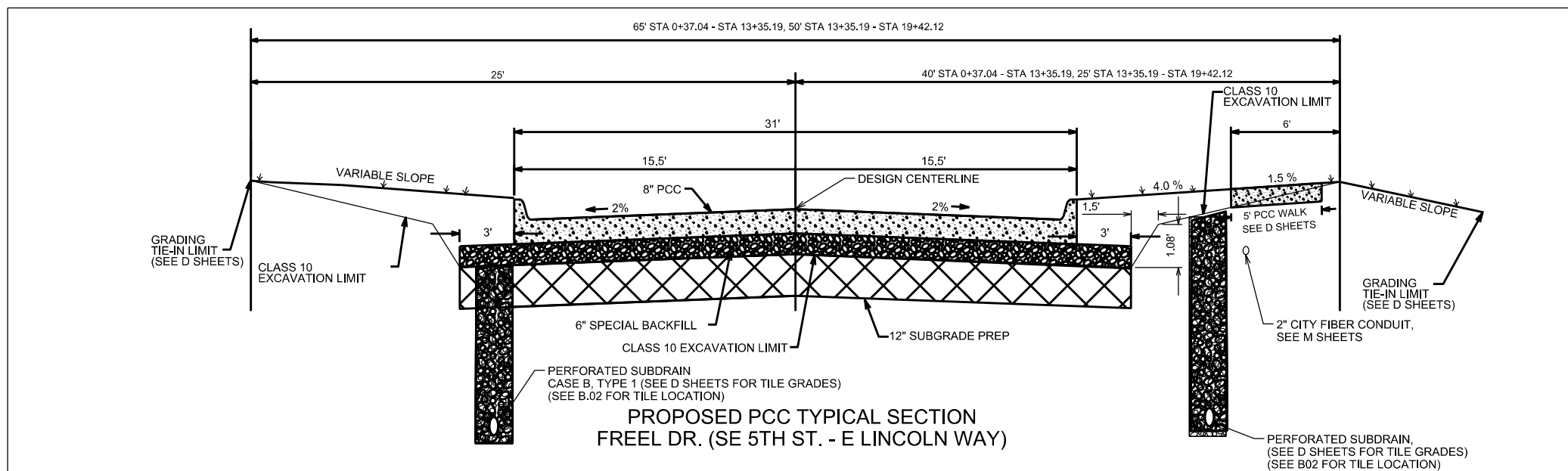
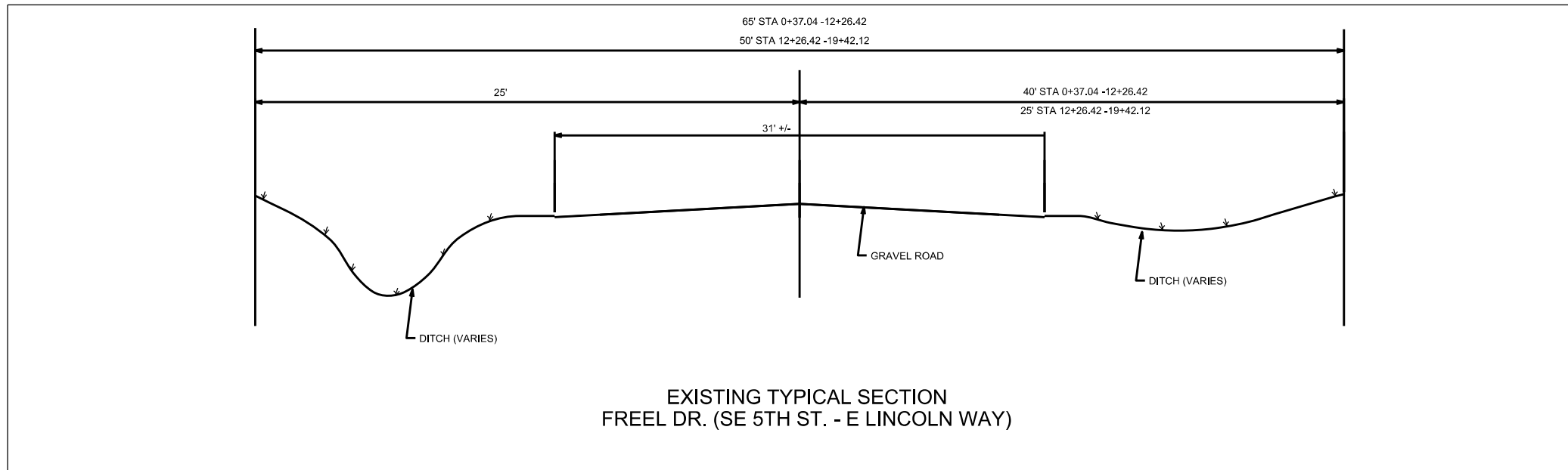
THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT (800) 292-8989 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT

THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES WITHIN THE PROJECT LIMITS:

SYMBOLGY AND LEGEND	
— SAN —	SANITARY SEWER LINE
— ST —	STORM SEWER LINE
	GRATE INTAKE
	OPEN THROAT INTAKE
	BEEHIVE INTAKE
— W —	WATER MAIN
	HYDRANT
	WATER VALVE
	REDUCER
---	UNDERGROUND ELECTRIC LINE
	STREET LIGHT
	POWER POLE
	ELECTRIC PEDESTAL
	ELECTRIC HANDHOLE
	TRAFFIC SIGNAL
	TEL/CATV PEDESTAL
---	ROW/PROPERTY LINE
	PROPERTY PIN
	SHRUB
	DECIDUOUS TREE
	CONIFER TREE

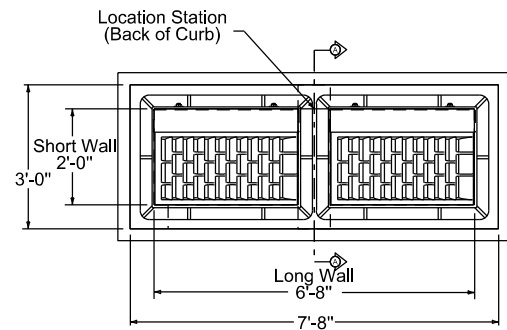
UTILITY CONTACT INFORMATION:	
CITY OF AMES - DEPARTMENT OF PUBLIC WORKS, ENGINEERING	
Contact Name:	Dean Sayre, PE
Contact Address:	515 Clark Avenue Ames, IA 50010
Contact Phone:	515-239-5277
CITY OF AMES - OPERATIONS: UTILITY MAINTENANCE (SANITARY, WATER)	
Contact Name:	Dale Weber
Contact Address:	2207 Edison Street Ames, IA 50010
Contact Phone:	515-239-5550 515-291-5705
CITY OF AMES - OPERATIONS: STREETS (STORM, STREETS)	
Contact Name:	Matt Elbert
Contact Address:	2207 Edison Street Ames, IA 50010
Contact Phone:	515-239-5543 515-329-0402
CITY OF AMES - TRAFFIC (SIGNALS, SIGNS)	
Contact Name:	Brad Becker
Contact Address:	2207 Edison Street Ames, IA 50010
Contact Phone:	515-239-5550 515-231-3042
CITY OF AMES - ELECTRIC DEPARTMENT, ENGINEERING	
Contact Name:	Mark Imhoff
Contact Address:	502 Carroll Avenue Ames, IA 50010
Contact Phone:	515-239-5175
CITY OF AMES - ELECTRIC DEPARTMENT, DISTRIBUTION	
Contact Name:	Curtis Zierke
Contact Address:	2220 Edison Street Ames, IA 50010
Contact Phone:	515-239-5501

ALLIANT ENERGY	
Contact Name:	Curt Boltey
Contact Address:	1284 XE Place Ames, IA 50014
Contact Phone:	515-268-3485
CENTURYLINK LUMEN INDUSTRIES	
Contact Name:	Kenneth Fullard
Contact Address:	2103 E University Avenue Des Moines, IA 50317
Contact Phone:	503-440-0309
MEDIACOM COMMUNICATION	
Contact Name:	Dan Zimmer
Contact Address:	225 S Dayton Avenue Ames, IA 50010
Contact Phone:	845-587-2495
IOWA COMMUNICATIONS NETWORK	
Contact Name:	Dave Augspurger
Contact Address:	400 E 14th Street Des Moines, IA 50319
Contact Phone:	515-725-4604 515-229-2013
IOWA STATE UNIVERSITY	
Contact Name:	
Contact Address:	220 Heating Plant Ames, IA 50011
Contact Phone:	515-294-2716 515-294-8795
AUREON	
Contact Name:	Matt Weiser
Contact Address:	7760 Office Plaza Dr South West Des Moines, IA 50266
Contact Phone:	515-830-0497
METRONET	
Contact Name:	Russ Hall
Contact Address:	<a href="mailto:OSP-Construction-Support@metronetinc.com">OSP-Construction-Support@metronetinc.com</a>
Contact Phone:	812-213-1679



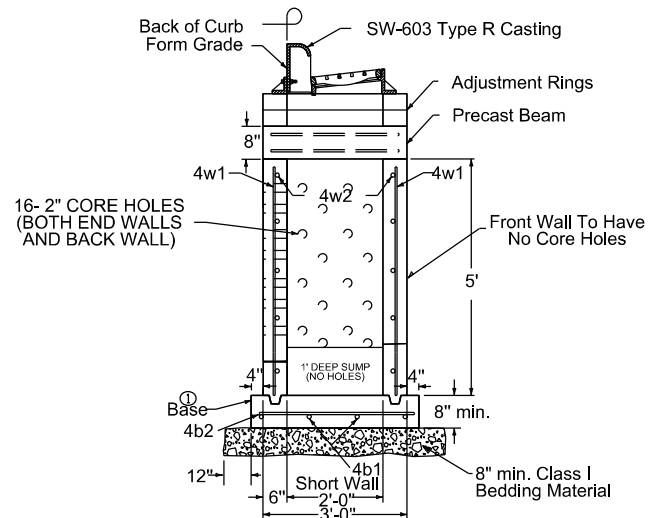
# FRENCH DRAIN INTAKE (MODIFIED SW-505 AND SW- 501)

- NOTES  
 1. SUBMIT SHOP DRAWINGS FOR ENGINEER'S APPROVAL  
 2. SW-501'S WILL BE MODIFIED AS THE SW-505'S.



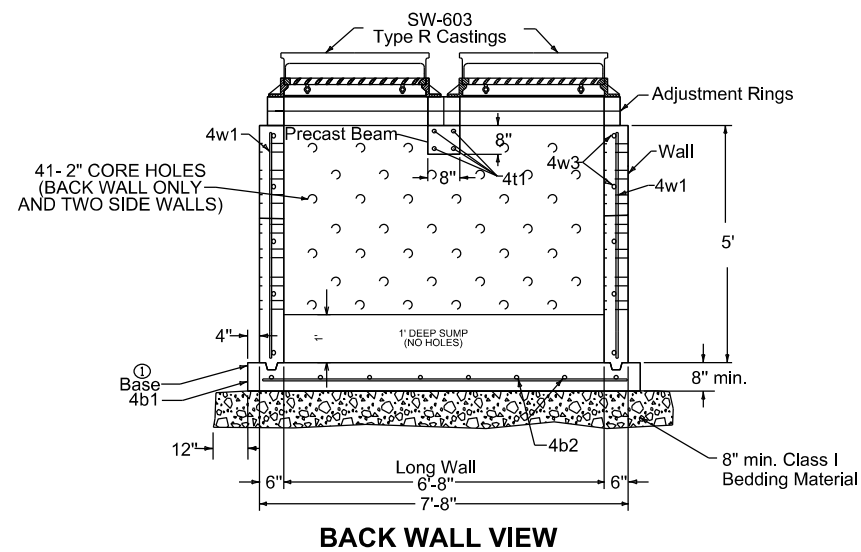
PLAN VIEW

Refer to SW-514 for boxout details.

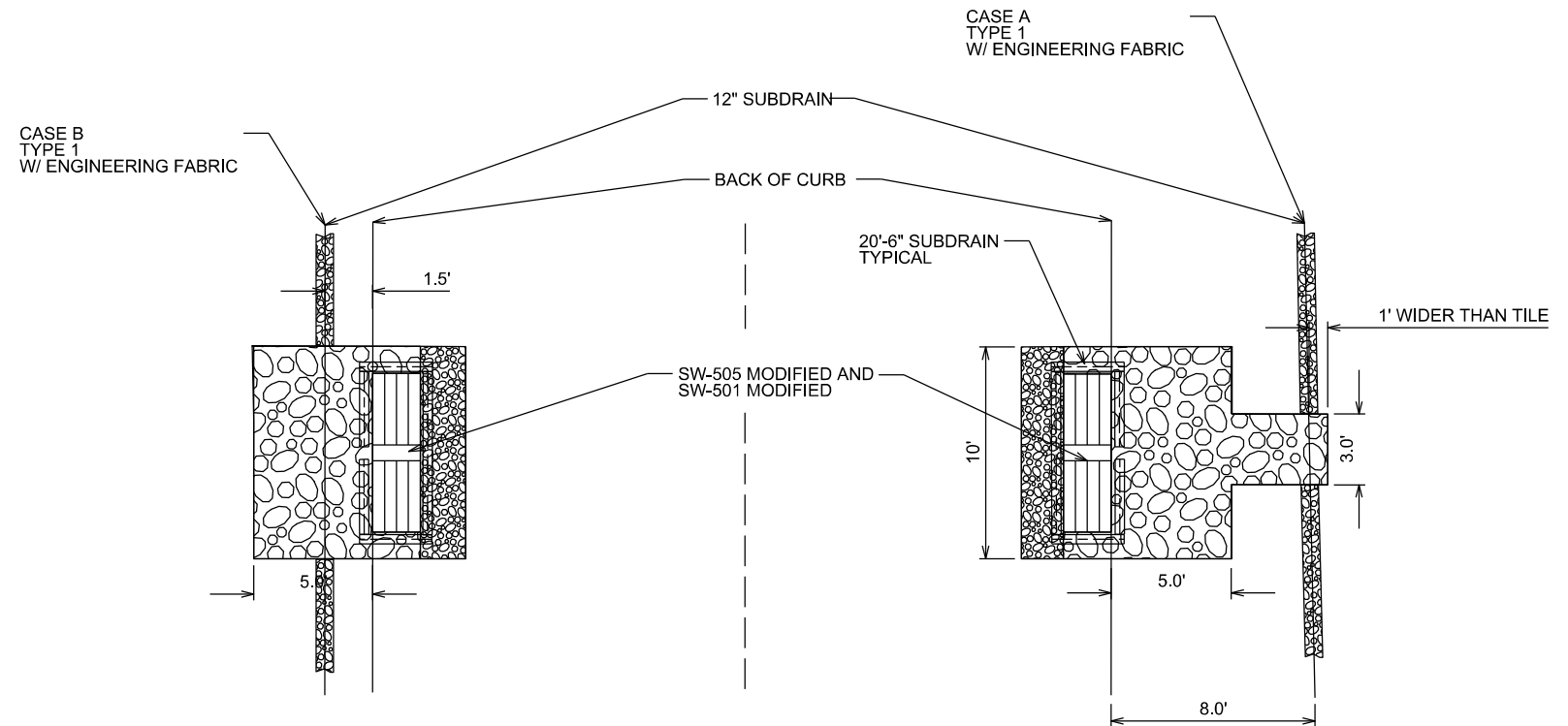


SECTION A-A

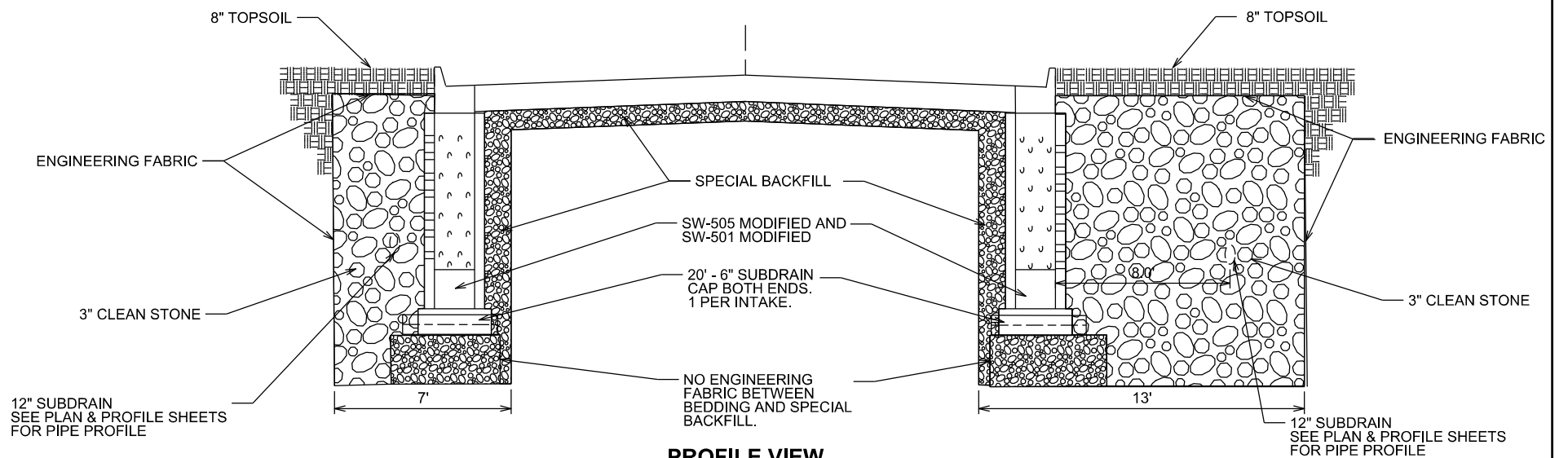
① Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.



BACK WALL VIEW



PLAN VIEW

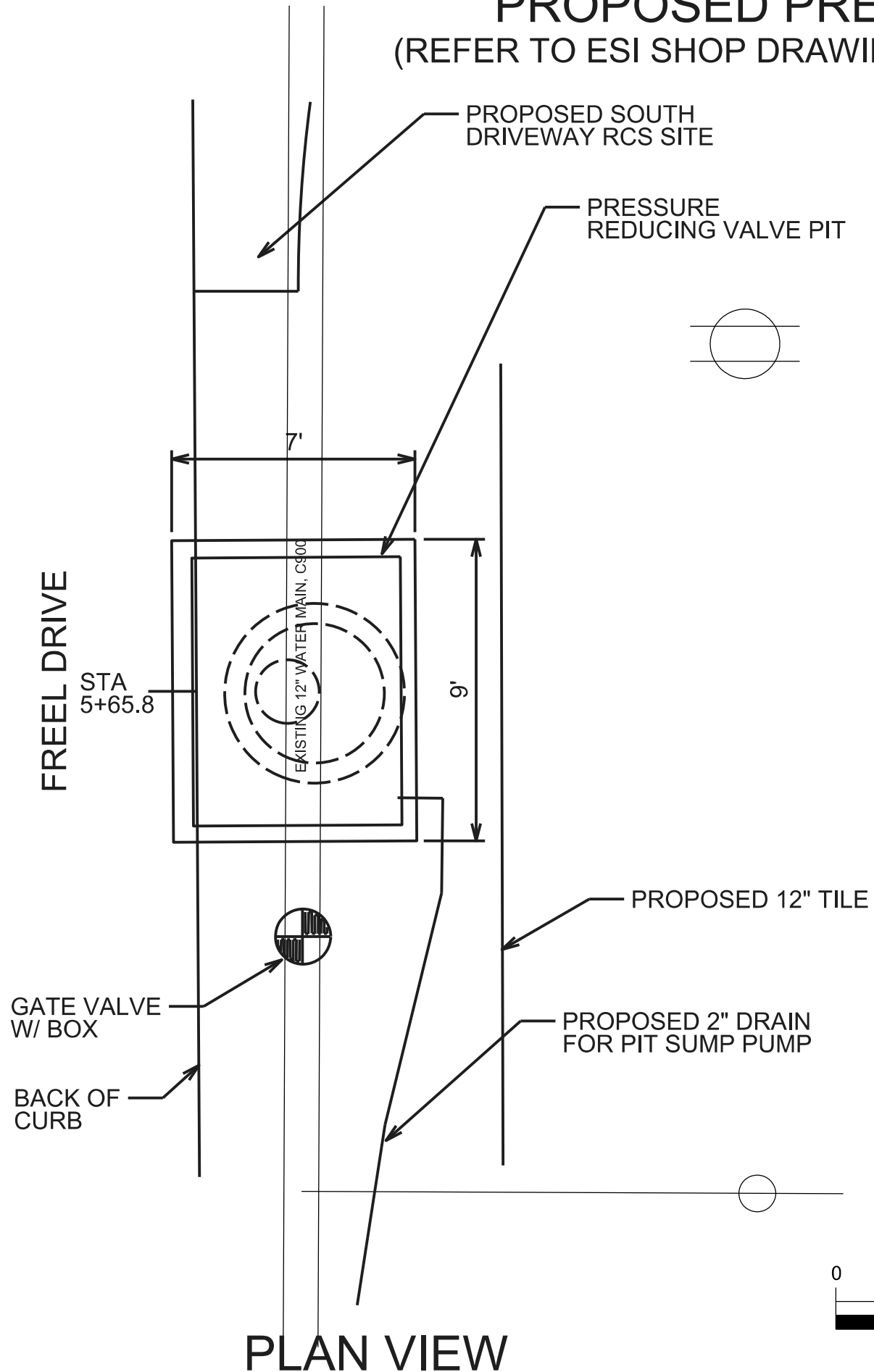


PROFILE VIEW

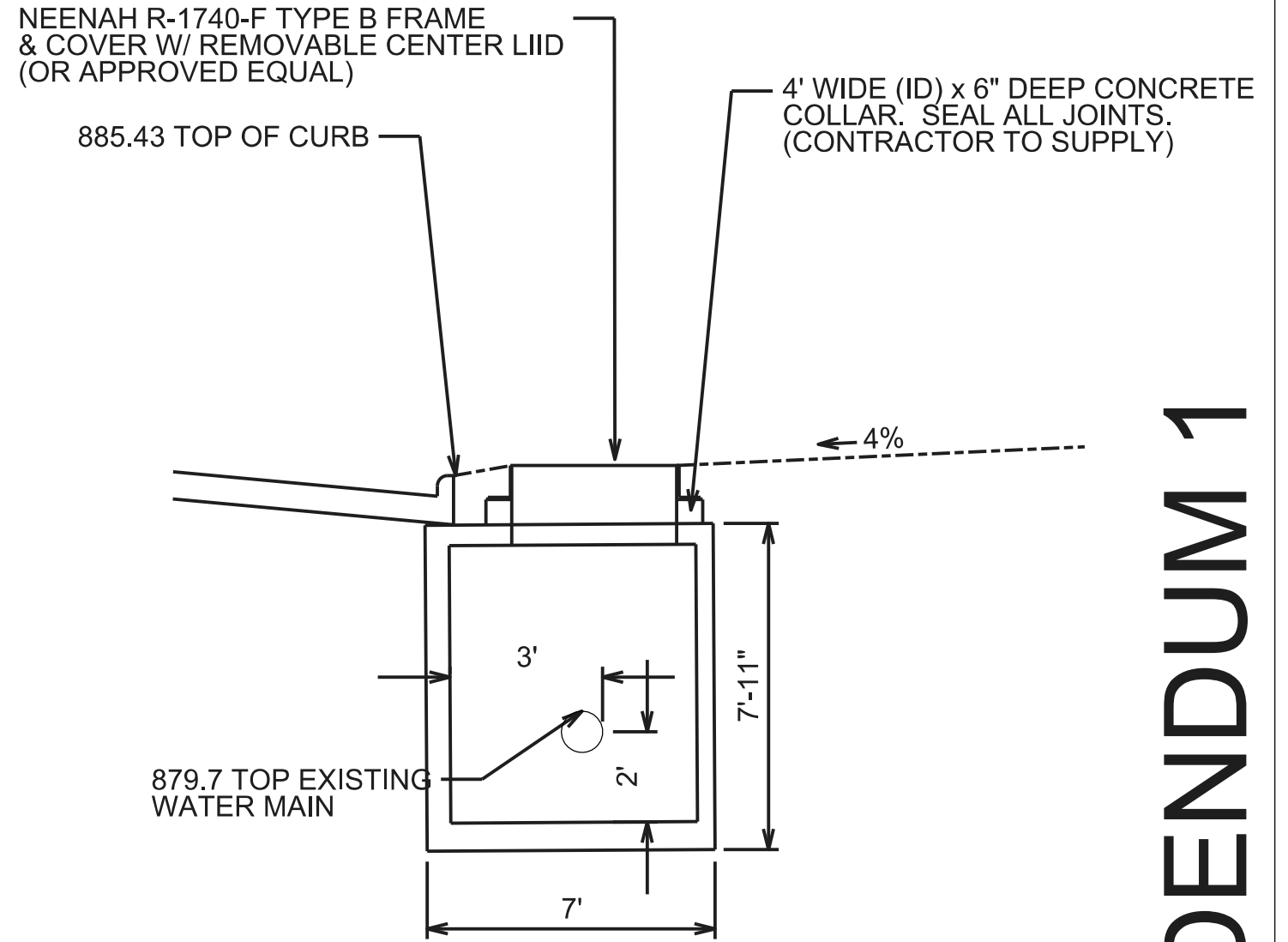
REINFORCING BAR LIST						
Mark	Size	Location	Shape	Count	Length	Spacing
4t1	4	Beam	—	4	2'-8"	4"
4b1	4	Base	—	4	7'-10"	10"
4b2	4	Base	—	8	3'-2"	12"
4w1	4	Walls	—	20	Wall Height minus 4"	12"
4w2	4	Long Walls	—	Varies	7'-4"	12"
4w3	4	Short Walls	—	Varies	2'-8"	12"

# PROPOSED PRESSURE REDUCING VALVE PIT

(REFER TO ESI SHOP DRAWING AND PROPOSAL FOR ADDITIONAL DETAILS)



**PLAN VIEW**



**PROFILE VIEW**

**ADDENDUM 1**

PROPOSAL NUMBER: EPS08779  
PROJECT LOC.: Ames, IA  
PROJECT TITLE: Freel Road PRV Vault

BID DATE: 3-22-2026

To: Dale Weber

ENGINEER: City of Ames, IA

**EQUIPMENT PROPOSAL**

**CONTROL VALVE VAULT**

Manufacture, deliver, and start-up one (1) engineered piping system, assembled and pressure tested within a concrete vault. The following major components will be provided:

- One (1) 12" Cla-Val Model 90-01BPSYKCKX Pressure Reducing Valve; 150# Flanged, Ductile Iron Pipe, Globe Pattern, Stainless Steel Trim, Complete Stainless Steel Pilot System, Pilot Isolation Valves, Inlet/Outlet Pressure Gauges, Opening Speed Control, X101 Position Indicator, Wye Strainer with Blowoff and Fusion Bonded Epoxy Coating,
- One (1) 12" EBAA Mega Flange,
- One (1) 12" Ductile Iron Inlet Pipe Connection,
- One (1) 12" Ductile Iron Outlet Pipe Connection,
- Three (3) Pipe Penetration Seals,
- One (1) Precast Concrete Vault per drawing EPS08779,
- One (1) 48" Clear Opening R-1740-F Type B Frame & Cover with Removable Center Lid,
- Two (2) Pipe Supports,
- One (1) 18" x 18" Sump hole with aluminum sump pan, sump pump and check valve,
- One (1) 1.5" PVC outlet pipe connection,

**Notes:**

- Delivery to job site included.
- Startup/Commissioning Included.
- Heaviest lift will be 14,000 lbs.
- Equipment will be delivered in multiple sections, consisting of:
  - Bottom vault section with valves, piping, and fittings installed,
  - Riser section (s),
  - Cover slab and hatch assembly.
- Joint sealant will be supplied for installation between sections.
- Delivery: submittals **2-3** weeks after receipt of order, **8-10** weeks for manufacturing after receipt of approval. All delivery dates are estimates and subject to material availability, production scheduling, transportation conditions, and force majeure events. Seller shall not be liable for delays beyond its reasonable control.
- Approval of submittals by Engineer or Owner does not relieve Purchaser of responsibility for field dimensions, elevations, invert compatibility, or site conditions.
- Delivery is based on safe accessibility to the site. Final determination by the driver.

**Start-up:**

- Start-up assistance includes one (1) site visit of up to eight (8) hours during normal business hours by one (1) Cla-Val Blue Seal Certified Factory Technician, unless otherwise quoted.

BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
1	1	12" CLA-VAL SERIES 90 PRESSURE REDUCING VALVE
2	1	12" EBAA MEGAFLANGE
3	1	12" DUCTILE IRON PIPE INLET CONNECTION
4	1	12" DUCTILE IRON PIPE OUTLET CONNECTION
5	3	PIPE PENETRATION SEAL
6	1	PRECAST CONCRETE VAULT
7	1	48" Ø CLEAR OPENING R-1740-F TYPE-B FRAME & COVER WITH REMOVABLE CENTER LID
8		VAULT STEPS
9	2	PIPE SUPPORTS
10	1	18" x 18" SUMP HOLE WITH ALUMINUM SUMP PAN, SUMP PUMP AND CHECK VALVE
11	1	1.5" PVC PIPE OUTLET CONNECTION

**NOTES:** FITTINGS ARE DUCTILE IRON IN ACCORDANCE WITH ANSI/AWWA C110/A21.10. FLANGES ARE ANSI CLASS 125, B16.1.

PIPE SPOOLS ARE CL53 DUCTILE IRON WITH FLANGES IN ACCORDANCE WITH ANSI/AWWA C115/A21.15. FLANGES ARE ANSI CLASS 125, B16.1.

INTERIOR COATING MEETS THE REQUIREMENT OF NSF-61 STANDARD.

EXTERIOR COATING TO BE A 2-PART EPOXY.

THE VAULT WILL BE DELIVERED IN TWO (2) SECTIONS. OFF-LOADING AND SETTING OF EACH SECTION BY INSTALLING CONTRACTOR. NOT ESI FAB SYSTEMS. THE HEAVIEST PICK WILL BE APPROXIMATELY 14,000 POUNDS.

JOINT SEALANT WILL BE SUPPLIED FOR INSTALLATION

PIPE AND FITTINGS ARE NON-DOMESTIC.

REV	DATE	REV DESCRIPTION
0	03/18/26	FOR REVIEW

**ESI FAB SYSTEMS**  
15410 S MAHAFFIE ST  
OLATHE, KS 66062  
PH: 816-468-9119 - www.esiwater.com

EPS08779  
PROJECT: AMES, IA  
DRAWN BY: BC

**ADDENDUM 1**

# ESTIMATE REFERENCE INFORMATION

## STA 00+00 to 13+50

BASE BID		ESTIMATE OF QUANTITIES			
ITEM #	ITEM CODE	DESCRIPTION	UNIT	QUANTITIES	
				ESTIMATE	AS-BUILT
Division 1 - General (Not Used)					
Division 2 - Earthwork					
2.1	2010-C	Clearing and Grubbing	ls	1	
2.2	2010-D-3	Topsoil, Off-site	cy	630	
2.3	2010-E	Excavation, Class 10	cy	3752	
2.4	2010-E	Excavate Unsuitable Subgrade, 12" Depth	sy	958	
2.5	2010-G	Subgrade Preparation, 12" Depth	sy	5652	
2.6	2010-I-1	Special Backfill, 6" Depth	sy	5652	
2.7	2010-I-2	Subgrade Treatment, Geogrid Type 1	sy	958	
Division 3 - Trench, Backfill and Tunnelling (Not Used)					
Division 4 - Sewers and Drains					
4.1	4020-A-1	Storm Sewer, Trenched, RCP, 12" dia.	lf	84	
4.2	4020-A-1	Storm Sewer, Trenched, RCP, 15" dia.	lf	106.7	
4.3	4020-D	Removal of Storm Sewer, any type or size	lf	337	
4.4	4040-B	Footing Drain Collector and Fittings, PVC, 6" dia.	lf	644	
4.5	4040-B	Footing Drain Collector and Fittings, PVC, 12" dia.	lf	2062	
4.6	4040-C-2	Footing Drain Cleanout, Type A-2, 6" dia.	ea	4	
4.7	4040-D-2	Footing Drain Outlets and Connections, PVC, 6"	ea	13	
Division 5 - Water Mains and Appurtenances					
5.1	5010-A-1	Water Main, Trenched, Poly SIDR 7 250 PSI, 2"	lf	195	
5.2	5010-F	Water Main Abandonment, Cap, 4"	ea	4	
5.3	5010-H	Water Main Removal, 4"	lf	16	
5.4	5020-A	Valve, Gate, 12"	ea	1	
5.5	5020-C	Fire Hydrant Assembly	ea	1	
5.6	5020-A	Pressure Reducing Valve, Removal	ea	1	
5.7	5020-A	Pressure Reducing Valve, Installation, complete	ea	1	
5.8	5020-J	Remove Fire Hydrant Assembly	ea	1	
5.9	5020-H	Valve Box Replacement	ea	4	
5.10	5020-I	Fire Hydrant Adjustment	ea	1	
Division 6 - Structures for Sanitary and Storm Sewer					
6.1	6010-A-1	Manhole Type SW-401, 48" dia.	ea	3	
6.2	6010-B-1	Intake Type SW-501	ea	1	
6.3	6010-B-1	Intake Type SW-505	ea	3	
6.4	6010-B-1	Intake Type SW-506	ea	1	
6.5	6010-B-1	Intake French Drain (Modified SW-505)	ea	6	
6.6	6010-B-1	Intake French Drain (Modified SW-501)	ea	2	
6.7	6010-B-1	Intake Type SW-512	ea	5	
6.8	6010-E-1	Manhole Adjustment, Major	ea	1	
6.9	6010-E-1	Manhole Adjustment, Minor	ea	4	
6.10	6010-H-1	Remove Manhole	ea	1	
Division 7 - Streets and Related Work					
7.1	7010-A	Pavement, PCC, 8", Type C	sy	4791	
7.2	7030-A-1	Removal of Sidewalk	sy	4.6	
7.3	7030-A-2	Removal of Driveway	sy	178.4	
7.4	7030-E	Sidewalk, PCC, 6" depth	sy	31.2	
7.5	7030-G	Detectable Warning	sf	20	
7.6	7030-H-1	Driveway, Paved, PCC, 8" depth	sy	523.2	
7.7	7030-H-2	Driveway, Granular, 6" depth	TON	30	
7.8	7040-H	Pavement Removal	sy	411	
Division 8 - Traffic Control					
8.1	8030-A	Temporary Traffic Control	ls	1	
8.2		Traffic Signalization	ls	1	
Division 9 - Sitework and Landscaping					
9.1	9040-F-1	Wattles	lf	1000	
9.2	9040-T-1	Inlet Protection Device,	ea	18	
9.3	9040-T-2	Inlet Protection Device, Maintenance	ea	36	
Division 10 - Demolition (Not Used)					
Division 11 - Miscellaneous					
11.1	11010-A-1	Construction Survey/Staking	ls	1	
11.2	11030-A	Maintenance of Postal Service	ls	1	
11.3	11999-A	Pedestrian Facility Construction Survey & Staking	ls	1	
11.4	11010-B	Monument Preservation or Replacement	ea	1	
11.5	11020-A	Mobilization	ls	1	
11.6	11060-A	Concrete Washout	ls	1	

ADA Ramp at  
Lincoln Way

## STA 13+50 to 19+42.07

ADD ALTERNATE 1		ESTIMATE OF QUANTITIES		
Division 1 - General (Not Used)				
Division 2 - Earthwork				
2.1	2010-C	Clearing and Grubbing	ls	1
2.2	2010-D-3	Topsoil, Off-site	cy	725
2.3	2010-E	Excavation, Class 10	cy	979.6
2.4	2010-E	Excavate Unsuitable Subgrade, 12" Depth	sy	413
2.5	2010-G	Subgrade Preparation, 12" Depth	sy	2518.9
2.6	2010-I-1	Special Backfill, 6" Depth	sy	2518.9
2.7	2010-I-2	Subgrade Treatment, Geogrid Type 1	sy	413
Division 3 - Trench, Backfill and Tunnelling (Not Used)				
Division 4 - Sewers and Drains				
4.3	4020-D	Removal of Storm Sewer, any type or size	lf	347
4.4	4040-B	Footing Drain Collector and Fittings, PVC, 12" dia.	lf	1160
4.5	4040-C-2	Footing Drain Cleanout, Type A-2, 6" dia.	ea	4
4.6	4040-D-2	Footing Drain Outlets and Connections, PVC, 6"	ea	2
Division 5 - Water Mains and Appurtenances				
5.8	5020-H	Valve Box Replacement	ea	2
5.9	5020-I	Fire Hydrant Adjustment	ea	1
Division 6 - Structures for Sanitary and Storm Sewer				
6.5	6010-B-1	Intake French Drain (Modified SW-505)	ea	4
6.6	6010-B-1	Intake French Drain (Modified SW-501)	ea	2
6.8	6010-E-1	Manhole Adjustment, Major	ea	1
6.9	6010-E-1	Manhole Adjustment, Minor	ea	1
6.10	6010-H-2	Remove Intake	ea	2
Division 7 - Streets and Related Work				
7.1	7010-A	Pavement, PCC, 8", Type C	sy	2064
7.2	7030-A-1	Removal of Sidewalk	sy	51.8
7.3	7030-A-2	Removal of Driveway	sy	220.5
7.5	7030-G	Detectable Warning	sf	50
7.6	7030-H-1	Driveway, Paved, PCC, 8" depth	sy	433.3
7.8	7040-H	Pavement Removal	sy	1671.2
Division 8 - Traffic Control				
8.1	8030-A	Temporary Traffic Control	ls	1
Division 9 - Sitework and Landscaping				
9.1	9040-F-1	Wattles	lf	1000
9.2	9040-T-1	Inlet Protection Device,	ea	6
9.3	9040-T-2	Inlet Protection Device, Maintenance	ea	12
Division 10 - Demolition (Not Used)				
Division 11 - Miscellaneous				
11.1	11010-A-1	Construction Survey/Staking	ls	1
11.2	11030-A	Maintenance of Postal Service	ls	1
11.3	11999-A	Pedestrian Facility Construction Survey & Staking	ls	1
11.4	11010-B	Monument Preservation or Replacement	ea	1
11.5	11020-A	Mobilization	ls	1
<b>ADD ALTERNATE 2 ESTIMATE OF QUANTITIES</b>				
<b>STA 0+37.04 to STA 13+50</b>				
7.4	7030-E	Sidewalk, PCC, 6" depth	sy	700.6
<b>ADD ALTERNATE 3 ESTIMATE OF QUANTITIES</b>				
<b>STA 13+50 to 19+42.07</b>				
7.4	7030-E	Sidewalk, PCC, 6" depth	sy	346.2

ADDENDUM 1

# ESTIMATE REFERENCE INFORMATION

ADDENDUM 1

- 2.2 **2010-D-1 TOPSOIL, OFF-SITE (CY).** This item shall include all labor, material, and equipment necessary to place 8" of topsoil in all disturbed areas. Onsite or suitable off site topsoil meeting SUDAS 2010.2.01 and City of Ames Supplemental Specifications may be used. Topsoil shall be rough graded in anticipation of seed bed preparation by others. Payment shall be per cubic yard.
- 2.3 **2010-E EXCAVATION, CLASS 10 (CY)** This item will include all areas shown in Typical Section B.01 called out as Class 10 Excavation Limit. Calculated quantities, Cut -3418 CY, Fill + 344 CY without shrink.
- 2.4 **2010-E EXCAVATION, UNSUITABLE SOIL (SY).** This item shall be used for the removal and replacement of soft areas encountered on seal coat reconstruction streets deemed unstable by the engineer's representative. Bid quantity is based on 20% of the proposed pavement quantity. Payment shall be per square yard.
- 2.5 **2010 -G SUBGRADE PREPARATION 12" DEPTH (SY)** This item includes subgrade compaction testing.
- 2.7 **2010-I-2 SUBGRADE TREATMENT, GEOGRID (SY).** This item shall include furnishing and placement of Geogrid in areas determined by the Engineer's representative. Bid quantity is based on 20% of the proposed pavement quantity.
- 4.1,4.2 **4020-A-1 STORM SEWER PIPE, 12, 15" RCP, CLASS III (LF).** This bid item shall be in accordance with Section 3010 & 4010 of the SUDAS Standard Specifications and shall include all equipment, labor and materials to place pipe as noted on the plans. Pipe connections to storm structures shall be included in this bid item, including but not limited to coring or cutting into the existing manhole or intake, pipe connections, grout, and waterstop (when required). Backfill shall be per Class R-2, with Class I granular bedding material up to springline of pipe unless otherwise noted in the plans. Payment shall be per lineal foot.
- 4.3 **4020-D REMOVAL OF STORM SEWER, (ANY TYPE AND SIZE) (LF).** This bid item include all equipment, labor, materials, hauling and proper disposal of removed pipe as shown on the plans. Any pipe damaged beyond the removal limits during construction shall be repaired and/or replaced at no cost to the City. The removed pipe shall become property of the Contractor to be disposed of at an off-site location. Payment shall be per linear feet of pipe removed.
- 4.4, 4.5 **4040-B FOOTING DRAIN COLLECTOR, TYPE 2, 6", 12" PVC (LF).** This bid item shall be in accordance with Section 4040 of the SUDAS Standard Specifications and shall include all equipment, labor and materials to place subdrain as noted on the plans. All fittings, including cleanout assemblies, and tying into existing structures shall be considered incidental unless noted otherwise in the plans, subdrain shall be installed per Case D, Type 2 of SUDAS Figure 4040.231. Engineering fabric will be required for this project. Payment shall be per lineal foot.
- 5.5 **5020-C HYDRANT ASSEMBLY (EA).** The relocated fire hydrant will be paid with this bid item. No more than one hydrant extension is allowed per hydrant. Reconnect tracer wire and pedestal that bolts to the hydrant.
- 5.6 **5020-A PRESSURE REDUCING VALVE, REMOVAL (EA).** Unit price includes, but is not limited to, all components attached to the valve or required for its complete removal, including, underground or above ground operator, square valve operating nut, valve box and cover, valve box extension, valve stem extension and manhole. This bid item includes all the pipe and accessories necessary to reconnect the existing water main.

5.7 **5020-A PRESSURE REDUCING VALVE, INSTALLATION (EA).** Unit price includes, but is not limited to, all components attached to the valve or required for its complete installation and operation as per the manufacturer installation and start up instructions. See sheet B.03 and B.04 for additional details. This bid item includes all the pipe and accessories necessary to connect to existing water main. The City will purchase the PRV package and have it stored at a City facility. The contractor will be responsible for transport and delivery to the construction site. Contractor will set structure shown on sheet B.03 and B.04.

- 5.8 **5020-J REMOVE HYDRANT ASSEMBLY (EA).** This item shall include removing existing fire hydrant, hydrant valve and box. Concrete pipe plug shall be considered incidental to this item. Payment shall be per each hydrant assembly removed.

- 5.9 **5020-H VALVE BOX REPLACEMENT (EA).** This bid item shall include all equipment, labor and materials to replace existing water valves. **Valve box lids shall be protected from concrete during concrete placement or asphalt during asphalt placement. Each water valve box lid shall be opened and the riser box cleaned to the valve by the contractor prior to final walk-through. Final acceptance will not be granted until all valve boxes have been opened and verified by the Engineer.** Payment shall be per each.
- 6.1 **6010-A-2 STORM MANHOLE, SW-401, 48" DIAMETER (EA).** This bid item shall be in accordance with Section 6010 of the SUDAS Standard Specifications. Tying existing pipe and/or services into new manhole shall be considered incidental. **Manhole Boxouts shall have a concrete depth of 12 inches and be 6 feet by 6 feet.** The item shall include the installation of a Type E, two-piece frame and lid per SUDAS Standard Detail SW-602, and adjustment to final grade. Payment shall be per each.
- 6.2,6.3,6.4 **6010-B-1 STORM INTAKE, SW-501, SW-505, SW-506 (EA).** This item shall be in accordance with Section 6010 of the SUDAS Standard Specifications. Tying existing pipe and/or services into new intake shall be considered incidental. Payment shall be per each.
- 6.5,6.6 **6010-B-1 FRENCH DRAIN STORM INTAKE,(MODIFIED SW-501, SW-505, (EA).** This item shall be in accordance with Section 6010 of the SUDAS Standard Specifications. See sheet B.02 for intake details. Rock backfill and engineering fabric is considered incidental to this bid item. Payment shall be per each
- 6.8 **6010-F ADJUST MANHOLE, MAJOR (EA).** This bid item shall be in accordance with Section 6010 of the SUDAS Standard Specifications and shall include all equipment, labor and materials to adjust manhole to final grade. This item includes removing cone section, installing additional barrel section (as per plan sheets), and reinstalling cone section. **Contractor shall verify manhole diameter and height of additional barrel sections prior to ordering materials.** Prior to removal of the existing casting, a temporary debris shield shall be placed. This shield shall remain in place until manhole has been adjusted to final grade and concrete poured. **Manhole Boxouts shall have a concrete depth of 12 inches and be 6 feet by 6 feet in within pavement.** The existing casting shall become the property of the City, unless otherwise indicated on the plans.  
  
This item shall include the installation of SW-601 Type A casting, pro-ring, and adjustment to final grade with a rectangular shaped concrete boxout per SUDAS 7020. Castings shall be two-piece unless otherwise called out in the plans or as determined necessary by the Engineer. **Manhole castings shall be protected from concrete during concrete placement. The manhole shall be opened and cleaned by the contractor prior to final walk-through. Final acceptance will not be granted until all manholes have been opened and verified by the Engineer.** Payment shall be per each.
- 6.9 **6010-E MANHOLE ADJUSTMENT, MINOR (EA).** This bid item shall be in accordance with Section 6010 of the SUDAS Standard Specifications and shall include all equipment, labor and materials to adjust manhole to final grade. **Manhole Boxouts shall have a concrete depth of 12 inches and be 6 feet by 6 feet in within the pavement.** Grouting of existing lift holes in the manholes shall be considered incidental. Prior to removal of the existing casting, a temporary debris shield shall be placed. This shield shall remain in place until manhole has been adjusted to final grade and concrete poured. The existing casting shall become the property of the City, unless otherwise indicated on the plans. This item shall include the installation of a Type A (sanitary) or Type E (storm sewer), two-piece frame and lid, pro ring, and adjustment to final grade with a rectangular shaped concrete boxout per SUDAS 7020. **Manhole castings shall be protected from concrete during concrete placement. The manhole shall be opened and cleaned by the contractor prior to final walk-through. Final acceptance will not be granted until all manholes have been opened and verified by the Engineer.** Payment shall be per each.
- 6.10 **6010-H-1 REMOVE MANHOLE (EA).** This bid item shall include all equipment, labor, materials, hauling and proper disposal of removed manhole as shown on the plans. Any pipe damaged during the removal of the structure shall be repaired and/or replaced at no cost to the City. The removed casting shall become the property of the City. The removed structure shall become the property of the Contractor to be disposed of at an off-site location. Payment shall be per each.
- 7.1 **7010-A PAVEMENT, PCC, 8" DEPTH.** This bid item shall be in accordance with Section 7010 of the SUDAS Standard Specifications. Contractor shall utilize a C mix and provide Certified Plant Inspection. Any dowel bars, joint sawing, expansion material, or other appurtenances necessary to complete this work shall be considered incidental. **Sawing and sealing of BT joints is required. KT Joints shall not be used. Air Screeds shall not be used for paving.** Payment shall be per square yard. **This item excludes cold weather protection payment according to City of Ames Supplemental Specifications.**

# ESTIMATE REFERENCE INFORMATION

**7.2, 7.3 7030-A REMOVAL OF SIDEWALK & DRIVEWAY (SY).** This bid price shall include all equipment, labor, materials, sawing, hauling, and proper disposal of removed sidewalks, pedestrian ramps, and driveways, as shown on the plans. Any damage beyond the removal limits shall be removed and replaced at the Contractor's expense. Payment shall be per square yard.

**7.4 7030-E SIDEWALK, PCC, 6" DEPTH (SY).** This bid item shall be in accordance with section 7030 of the SUDAS Standard Specifications and shall include all equipment, material and labor to place 6" sidewalk for pedestrian ramps, common landing squares and sidewalk through driveways, or as noted on the plans. Thickened edges, joints and steel in pedestrian ramps where they meet the pavement edge shall be considered incidental. Buildings, hydrants, light poles, sign posts and other fixtures/features shall be protected from concrete during concrete placement. Minor water valve, gas valve, and cleanout adjustments shall also be considered incidental, unless otherwise accounted for in a separate bid item. No payment will be made until ADA and plan compliance is verified by the Engineer. Payment shall be per square yard. **This item excludes cold weather protection payment according City of Ames Supplemental Specifications**

**7.5 7030-G DETECTABLE WARNING (SF).** This bid item shall be in accordance with section 7030 of the SUDAS Standard Specifications and shall include all material, equipment and labor to cast in place according to pedestrian ramp sidewalk details in the most current SUDAS Standard Specifications. **Detectable warning panels shall be one of the following natural finished CAST IRON products: Duralast Detectable Warning Surface or Detectable Warning Plate.** No payment will be made until ADA and plan compliance is verified by the Engineer. Payment shall be per square foot.

**7.6 7030-H-1 DRIVEWAY, PCC, 8" DEPTH (SY).** This bid item shall be in accordance with section 7030 of the SUDAS Standard Specifications unless otherwise indicated in the plans and specifications, and shall include all equipment, material, and labor to place driveways as noted on plans or directed by the Engineer. The Contractor shall make every effort to reuse existing aggregate base material where present. A C-mix shall be used for the placement of the Type "A" Flared Wing driveway per the current SUDAS Figure 7030.101. Driveways shall be opened to traffic within 48 hours after placement. Payment shall be per square yard. **This item excludes cold weather protection payment according to City of Ames Supplemental Specifications.**

**7.8 7040-H PAVEMENT REMOVAL (SY).** This item includes all removal and disposal of all pavement material, as per plan. Saw cutting shall be considered incidental to this item. Any pavement broken or damaged beyond the removal limits shall be saw cut and removed to a new line and replaced by the Contractor at no additional cost to the City. The Contractor shall dispose of all removed materials at an off-site disposal area. Payment shall be per square yard.

**8.1 8030-A TEMPORARY TRAFFIC CONTROL (LS).** The Contractor shall submit a traffic control plan to the Engineer for approval prior to beginning construction. The Contractor shall furnish and maintain all traffic control devices required for the duration of construction at each project location. Traffic control shall meet the General Traffic Control Notes in the contract documents and comply with the current edition of both the Manual on Uniform Traffic Control Devices (MUTCD) and the City of Ames "Traffic Control for Construction and Maintenance Work Within the City's Right-of-Way". All traffic control devices shall be properly located, maintained, and kept clean and legible by the Contractor to provide for safe pedestrian and traffic flow at all times. The Contractor shall have specific persons designated to monitor traffic control devices and correct problems. The Contractor shall furnish the City with names and phone numbers of these persons plus a phone number for after hours problems. Partial payments will be made based upon the amount of work completed as a percentage of the original contract lump sum.

**8.2 TRAFFIC SIGNALIZATION (LS).** Refer to the M sheets for locations and sheet N.01 for details. Measurement for this item will be lump sum. This item will be paid for at the contract lump sum price bid, which price shall be full compensation for furnishing all materials, and all other work necessary or incidental to the construction of the traffic conduit system.

**11.1 11010-A CONSTRUCTION SURVEY AND STAKING (LS).** This bid item shall be in accordance with Section 2526 of the IDOT Standard Specifications. It shall include all detailed survey and staking necessary for completion of the attached plans and specifications, with the exception of items described in **Item 11.3** noted below. This item includes, but is not limited to staking and re-staking of easements, ROW, utility improvements, grading and paving. The Contractor is responsible for maintaining control points and benchmarks during construction and shall employ the services of a professional licensed land surveyor registered in the State of Iowa for this bid item. Any interpolation or additional calculations necessary shall be considered incidental. GeoPAK data will **not** be provided for this project. Partial payments will be made based upon the amount of work completed as a percentage of the original contract lump sum.

**11.3 11999-A PEDESTRIAN FACILITY CONSTRUCTION SURVEY AND STAKING (LS).** This bid item is to furnish all survey and staking necessary for construction and verification of new pedestrian facilities. Pedestrian facilities include sidewalk, shared use paths, pedestrian ramps and crosswalks. This bid item shall also include as-built drawings with the measured slope reported in the As-Built Slope column of the Sidewalk Compliance Spreadsheet located within the plan set. Extra slope precision effort is required; however a licensed land surveyor is not required for this bid item. All new pedestrian facilities shall be compliant with current Americans with Disabilities Act (ADA) Regulations, SUDAS Specifications, City of Ames Supplemental Specifications, and the attached plans and specifications. Any pedestrian facilities determined, after construction, to be outside the ADA tolerances provided within the project plans and specifications shall be removed and replaced at the Contractors' expense. Further description of the compliance and acceptance process is included in the General Notes for Construction. Final acceptance of the project will not be granted until all Pedestrian Facility as-builts are submitted, reviewed and verified by the Engineer.

**11.4 11010-B MONUMENT PRESERVATION OR REPLACEMENT (LS).** This bid item shall be in accordance with Section 11010 of the SUDAS Standard Specifications. Contractor is responsible for locating, protecting, and tying down all monuments, including but not limited to property pins and section corners, and shall employ the services of a professional licensed land surveyor registered in the State of Iowa for this bid item. Any monuments damaged or removed during construction shall be replaced at no additional cost to the City of Ames, incidental to this item. Payment shall be per lump sum.

**11.5 11020-A MOBILIZATION (LS).** This bid item shall be defined by SUDAS Section 1010. It shall include, but not be limited to mobilization of personnel, equipment and supplies for all items under the contract. Partial payments will be made as per SUDAS Section 1090.

**11.6 11060-A CONCRETE WASHOUT, PORTABLE (LS).** This item is for the Contractor to furnish, maintain, and remove a portable concrete washout bin during concrete pavement operations. If a proper washout is not documented, payment of this item may be withheld or made partial payment. Payment shall be per each.

**NOTE:** All bid items shall include all labor, material, and equipment necessary to complete the work in accordance with the Plans and the Urban Standard Specifications for Public Improvements Manual, current edition, and City of Ames Supplemental Specifications unless otherwise noted.

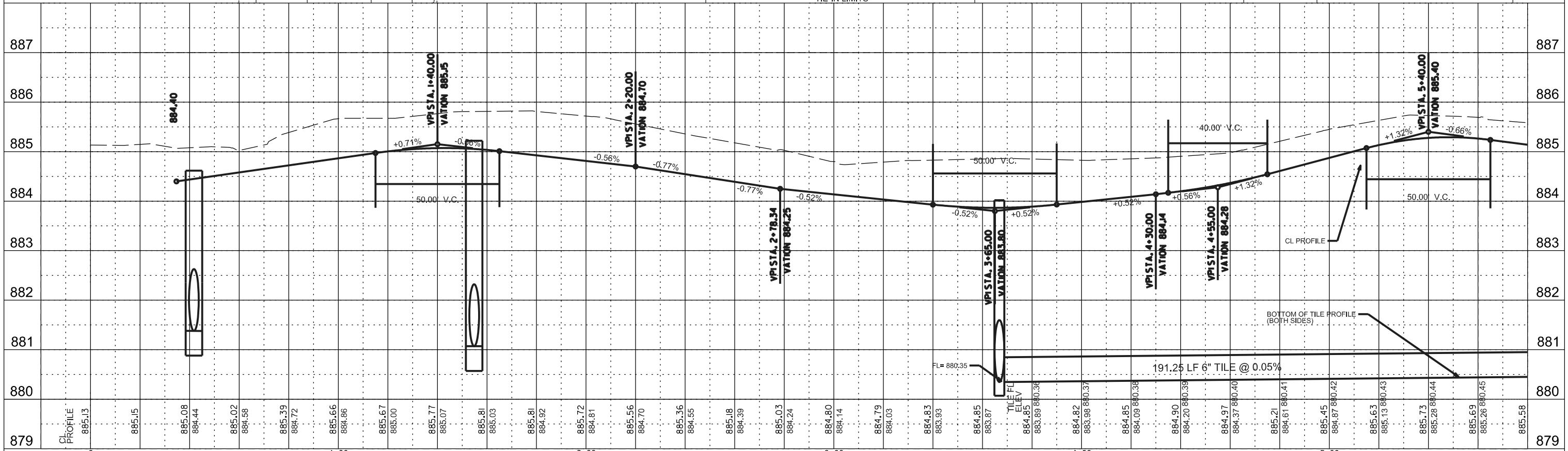
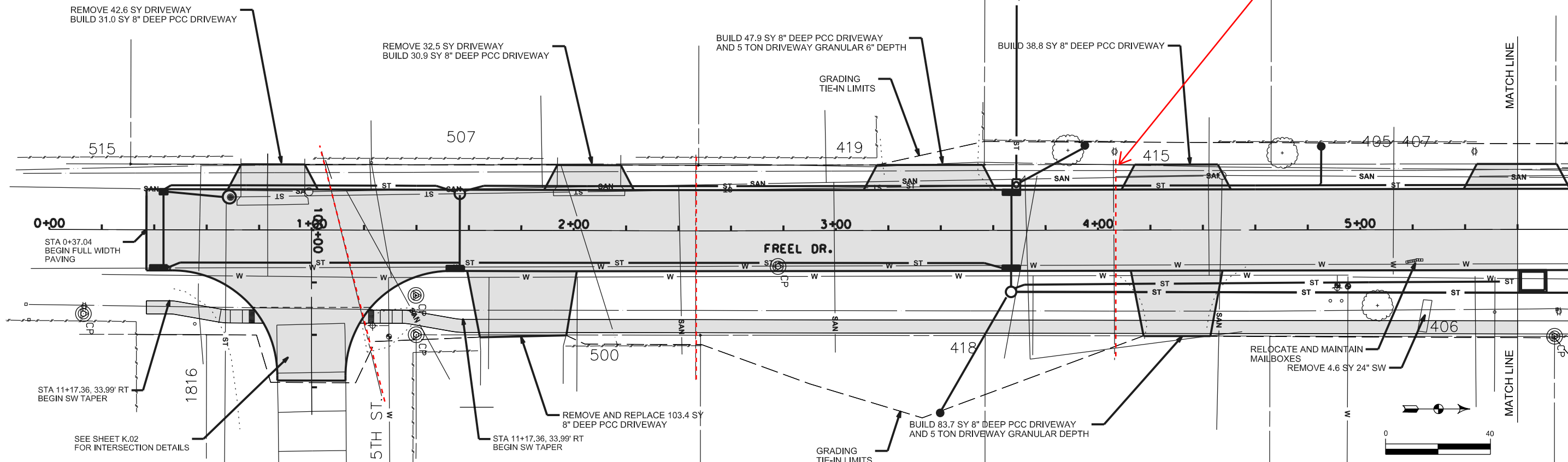
**GENERAL NOTES:**

- Underground facilities, structures, and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. It is possible there may be others, the existence of which presently is not known or shown. It is the Contractor's responsibility to determine their existence and exact location and to avoid damage thereto. No claims for additional compensation will be allowed to the Contractor for any interference or delay caused by such work. The Contractor is required to utilize the utility One-Call service at (800) 292-8989 at least 48 hours prior to construction anywhere on the project.
- All fire hydrants, intakes, casting, and manhole castings removed as part of the project shall remain the property of the City of Ames. It is the Contractor's responsibility to contact the City of Ames Public Works Operations Division once item is removed. The Contractor will make arrangements with the Operations Division for delivery of removed items to the City's storage yard.

ADDENDUM 1

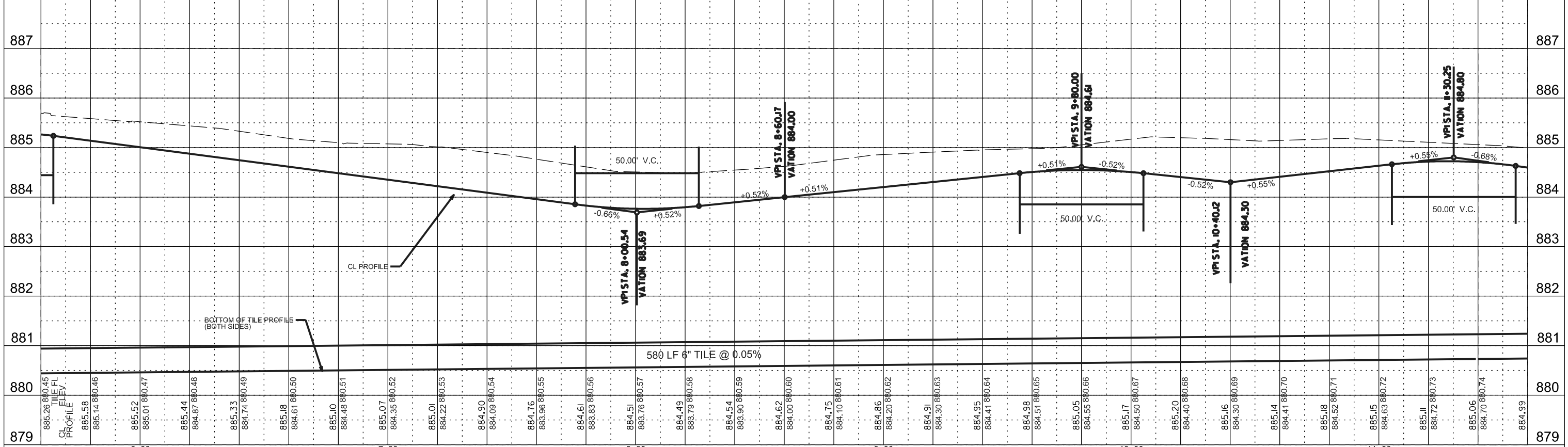
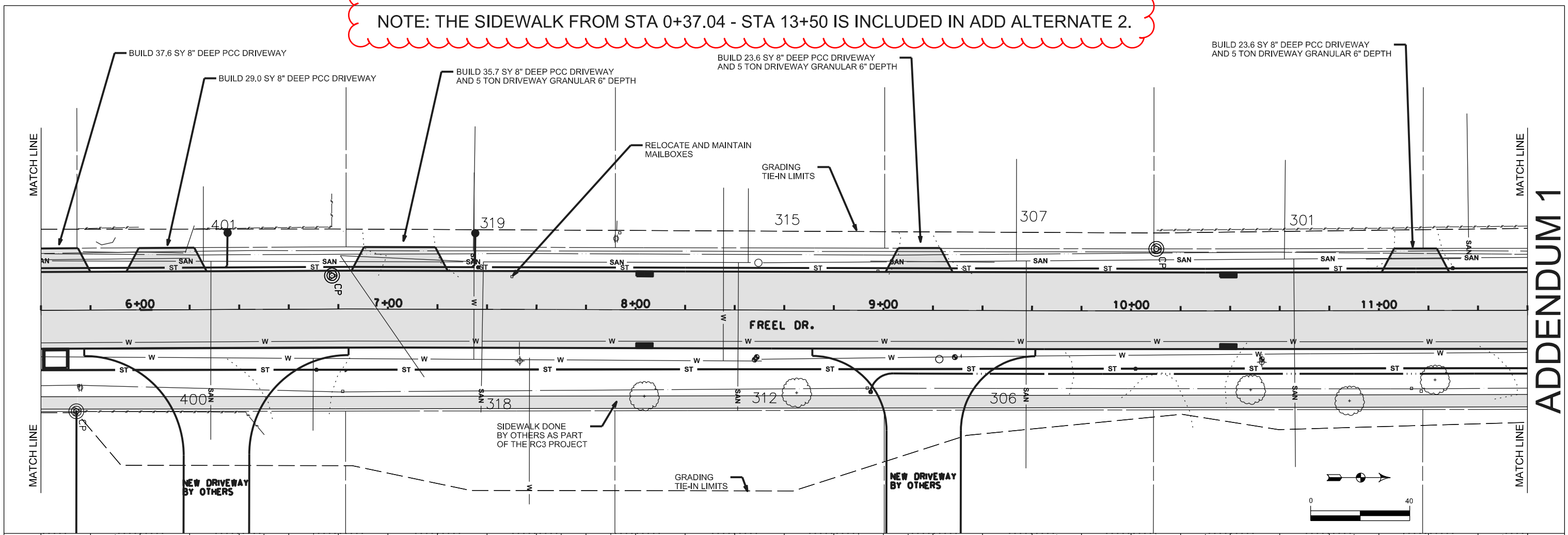
NOTE: THE SIDEWALK FROM STA 0+37.04 - STA 13+50 IS INCLUDED IN ADD ALTERNATE 2.

Underground Electric



ADDENDUM 1

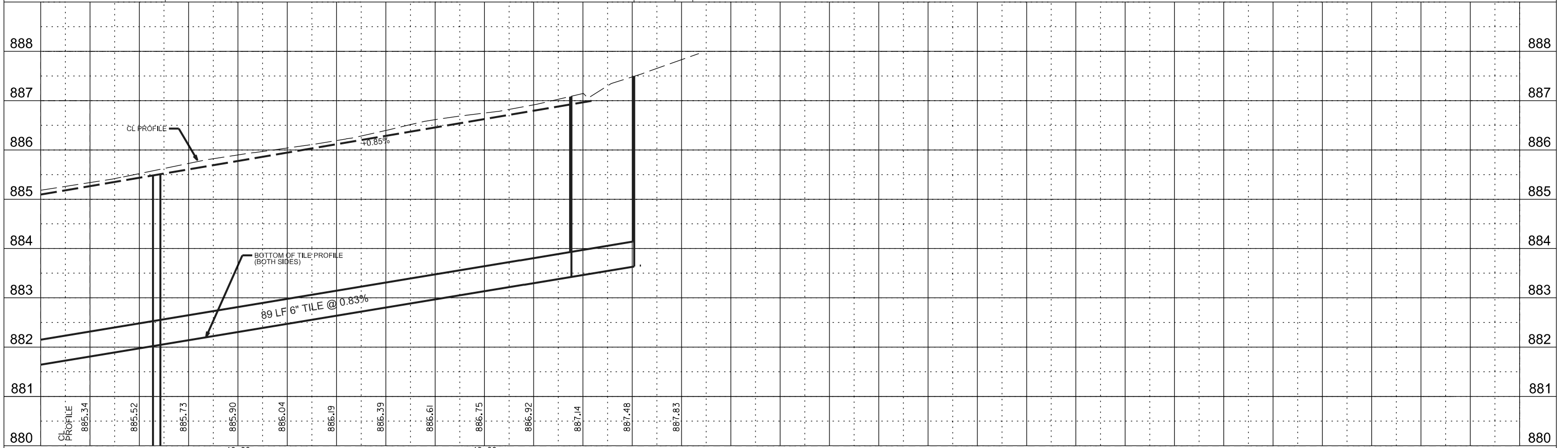
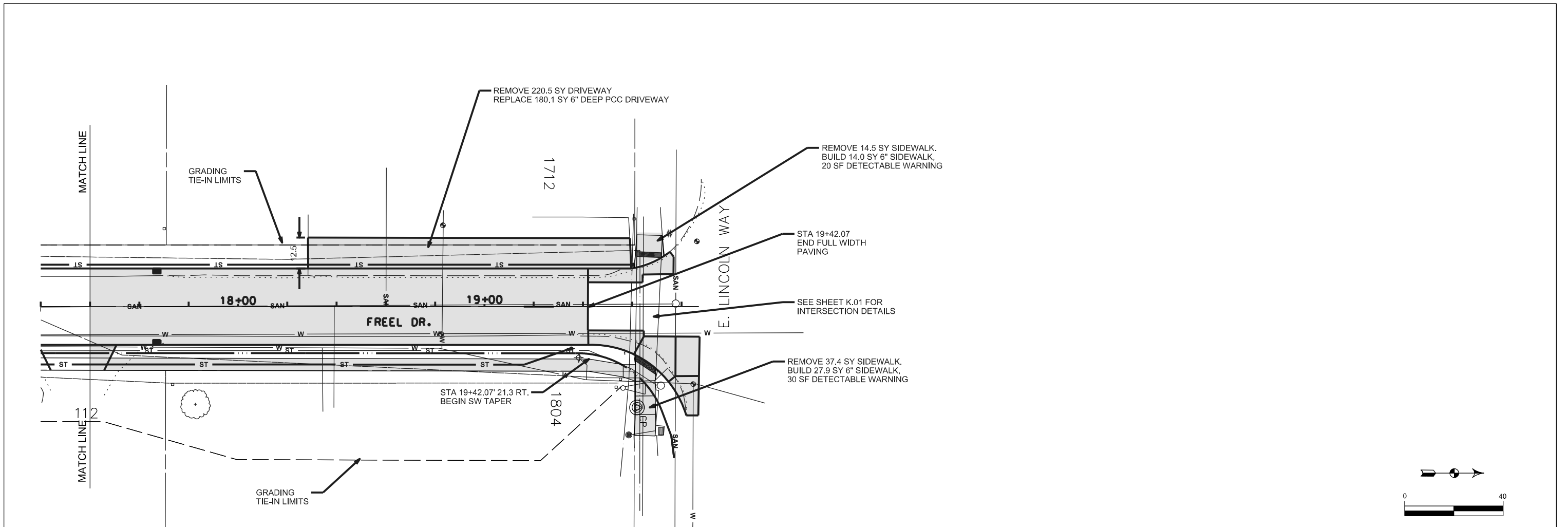
NOTE: THE SIDEWALK FROM STA 0+37.04 - STA 13+50 IS INCLUDED IN ADD ALTERNATE 2.



CADD * PRODUCED HAND/TOTAL STATION SURVEYED	CITY OF AMES	ENGINEERING DIVISION	DATE 12/25	DESIGNED BY: DS	DRAFTED BY: MGD	PROJECT NUMBER: 060-8190-439	FIELD BOOK NO.	2026/27 FREEL DRIVE PAVEMENT IMP	SHEET NUMBER D.02
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ADDENDUM 1





FREEL DRIVE CONTROL POINTS				
NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
214	PK NAIL IN SW	3471280.431	4896991.637	886.382
213	ROD IN GROUND	3470983.37	4896924.781	884.913
926	REBAR	3470677.479	4896925.523	884.21
104A	REBAR	3470498.193	4896936.175	884.573
103	REBAR	3470328.535	4896928.721	883.88
102A	REBAR	3469995.844	4896940.044	884.612
205A	REBAR	3469892.713	4896994.979	885.542
600A	REBAR	3469596.392	4896969.642	884.969
211	REBAR	3469458.301	4896981.276	885.317
601	REBAR	3469331.495	4896988.847	885.557

Horizontal Alignment:	FreelCL		
Horizontal Description:			
Horizontal Style:			
	Station	Northing	Easting
Element: Linear			
POB	( ) 0+00.0000	3469318.359	4896956.708
PI	( ) 2+47.7061	3469566.065	4896956.135
Tangential Direction:	N 0.1326 W		
Tangential Length:	247.7061		
Element: Linear			
PI	( ) 2+47.7061	3469566.065	4896956.135
PI	( ) 6+82.9680	3470001.318	4896953.456
Tangential Direction:	N 0.3526 W		
Tangential Length:	435.2618		
Element: Linear			
PI	( ) 6+82.9680	3470001.318	4896953.456
PI	( ) 10+10.2646	3470328.615	4896953.721
Tangential Direction:	N 0.0464 E		
Tangential Length:	327.2966		
Element: Linear			
PI	( ) 10+10.2646	3470328.615	4896953.721
POE	( ) 19+86.9578	3471305.303	4896950.598
Tangential Direction:	N 0.1832 W		
Tangential Length:	976.6932		

FREEL DRIVE BENCH MARKS		
NUMBER	DESCRIPTION	ELEVATION
743	TOP OPERATING NUT FH @ FREEL AND E. LINCOLN WAY	888.98
909	TOP OPERATING NUT FH @ STA 15+98 RT.	886.93
1062	TOP OPERATING NUT FH @ STA 13+20 RT.	886.90
1289	TOP OPERATING NUT FH @ STA 10+50 RT.	887.03
1461	TOP OPERATING NUT FH @ STA 7+50 RT.	886.05
1704	TOP OPERATING NUT FH @ STA 4+90 RT.	886.95
1905	TOP OPERATING NUT FH @ FREEL AND SE 5TH ST.	888.35

Vertical Alignment:		FreelRevCL	
Vertical Description:			
Vertical Style:			
		Station	Elevation
Element: Linear			
POB		0+34.6455	884.3985
PVC		1+15.0000	884.9717
Tangent Grade:		0.71%	
Tangent Length:		80.3545	
Element: Symmetrical Parabola			
PVC		1+15.0000	884.9717
PM		1+40.0000	885.15
PVT		1+65.0000	885.0094
VHIGH		1+42.9551	885.0714
Length:		50	
Entrance Grade:		0.71%	
Exit Grade:		-0.56%	
$r = (g_2 - g_1) / L$ :		-2.5516	
$K = I / (g_2 - g_1)$ :		39.1909	
Middle Ordinate:		-0.0797	
Element: Linear			
PVT		1+65.0000	885.0094
PM		2+20.0000	884.7
Tangent Grade:		-0.56%	
Tangent Length:		55	
Element: Linear			
PM		2+20.0000	884.7
PM		2+78.3364	884.25
Tangent Grade:		-0.77%	
Tangent Length:		58.3364	
Element: Linear			
PM		2+78.3364	884.25
PVC		3+40.0000	883.9298
Tangent Grade:		-0.52%	
Tangent Length:		61.6636	
Element: Symmetrical Parabola			
PVC		3+40.0000	883.9298
PM		3+65.0000	883.8
PVT		3+90.0000	883.9308

PM		4+30.0000	884.14
Tangent Grade:		0.52%	
Tangent Length:		40	
Element: Linear			
PM		4+30.0000	884.14
PVC		4+35.0000	884.168
Tangent Grade:		0.56%	
Tangent Length:		5	
Element: Symmetrical Parabola			
PVC		4+35.0000	884.168
PM		4+55.0000	884.28
PVT		4+75.0000	884.5435
Length:		40	
Entrance Grade:		0.56%	
Exit Grade:		1.32%	
$r = (g_2 - g_1) / L$ :		1.8941	
$K = I / (g_2 - g_1)$ :		52.795	
Middle Ordinate:		0.0379	
Element: Linear			
PVT		4+75.0000	884.5435
PVC		5+15.0000	885.0706
Tangent Grade:		1.32%	
Tangent Length:		40	
Element: Symmetrical Parabola			
PVC		5+15.0000	885.0706
PM		5+40.0000	885.4
PVT		5+65.0000	885.2359
VHIGH		5+48.3755	885.2905
Length:		50	
Entrance Grade:		1.32%	
Exit Grade:		-0.66%	
$r = (g_2 - g_1) / L$ :		-3.948	
$K = I / (g_2 - g_1)$ :		25.3296	
Middle Ordinate:		-0.1234	
Element: Linear			
PVT		5+65.0000	885.2359
PVC		7+75.5400	883.8541
Tangent Grade:		-0.66%	
Tangent Length:		210.54	
Element: Symmetrical Parabola			
PVC		7+75.5400	883.8541

PM		8+00.5400	883.69
PVT		8+25.5400	883.82
VLOW		8+03.4404	883.7625
Length:		50	
Entrance Grade:		-0.66%	
Exit Grade:		0.52%	
$r = (g_2 - g_1) / L$ :		2.3524	
$K = I / (g_2 - g_1)$ :		42.5097	
Middle Ordinate:		0.0735	
Element: Linear			
PVT		8+25.5400	883.82
PM		8+60.1700	884
Tangent Grade:		0.52%	
Tangent Length:		34.63	
Element: Linear			
PM		8+60.1700	884
PVC		9+55.0000	884.4827
Tangent Grade:		0.51%	
Tangent Length:		94.83	
Element: Symmetrical Parabola			
PVC		9+55.0000	884.4827
PM		9+80.0000	884.61
PVT		10+05.0000	884.4811
VHIGH		9+79.8394	884.546
Length:		50	
Entrance Grade:		0.51%	
Exit Grade:		-0.52%	
$r = (g_2 - g_1) / L$ :		-2.0494	
$K = I / (g_2 - g_1)$ :		48.7953	
Middle Ordinate:		-0.064	
Element: Linear			
PVT		10+05.0000	884.4811
PM		10+40.1200	884.3
Tangent Grade:		-0.52%	
Tangent Length:		35.12	
Element: Linear			
PM		10+40.1200	884.3
PVC		11+05.2500	884.6613
Tangent Grade:		0.55%	
Tangent Length:		65.13	
Element: Symmetrical Parabola			
PVC		11+05.2500	884.6613
PM		11+30.2500	884.8
PVT		11+55.2500	884.629
VHIGH		11+27.6400	884.7234
Length:		50	

Entrance Grade:	0.55%		Vertical Alignment:	Free/AltA		Horizontal Alignment:	SE5THCL		
Exit Grade:	-0.68%		Vertical Description:			Horizontal Description:			
$r = (g_2 - g_1) / L$ :	-2.4777		Vertical Style:			Horizontal Style:			
$K = I / (g_2 - g_1)$ :	40.3602			Station	Elevation				
Middle Ordinate:	-0.0774		Element: Linear			Element: Linear	Station	Northing	Easting
Element: Linear			POB	13+35.0070	884.435	POB	( ) 100+00.0000	3469418.359	4896956.476
PVT	11+55.2500	884.629	PVC	13+74.7216	884.0597	POE	( ) 100+71.2617	3469418.732	4897027.737
PVC	12+05.5582	884.2848	Tangent Grade:	-0.95%		Tangential Direction:	N 89.7006 E		
Tangent Grade:	-0.68%		Tangent Length:	39.7146		Tangential Length:	71.2617		
Tangent Length:	50.3082		Element: Symmetrical Parabola			Vertical Alignment:	ProSE5thCL		
Element: Symmetrical Parabola			PVC	13+74.7216	884.0597	Vertical Description:			
PVC	12+05.5582	884.2848	PM	13+99.7216	883.8234	Vertical Style:			
PM	12+30.5582	884.1138	PVT	14+24.7216	883.955	Element: Linear	Station	Elevation	
PVT	12+55.5582	884.2639	VLOW	14+06.8335	883.9079	POB	100+00.0000	884.87	
VLOW	12+32.1853	884.1937	Length:	50		PM	100+15.5000	885.25	
Length:	50		Entrance Grade:	-0.95%		Tangent Grade:	2.45%		
Entrance Grade:	-0.68%		Exit Grade:	0.53%		Tangent Length:	15.5		
Exit Grade:	0.60%		$r = (g_2 - g_1) / L$ :	2.9431		Element: Linear			
$r = (g_2 - g_1) / L$ :	2.5692		$K = I / (g_2 - g_1)$ :	33.9783		PM	100+15.5000	885.25	
$K = I / (g_2 - g_1)$ :	38.9233		Middle Ordinate:	0.092		PM	100+29.5016	885.593	
Middle Ordinate:	0.0803		Element: Linear			Tangent Grade:	2.45%		
Element: Linear			PVT	14+24.7216	883.955	Tangent Length:	14.0016		
PVT	12+55.5582	884.2639	PVC	15+34.3929	884.5324	Element: Linear			
PVC	12+94.6950	884.4989	Tangent Grade:	0.53%		PM	100+29.5016	885.593	
Tangent Grade:	0.60%		Tangent Length:	109.6713		PVC	100+34.5016	885.6825	
Tangent Length:	39.1368		Element: Symmetrical Parabola			Tangent Grade:	1.79%		
Element: Symmetrical Parabola			PVC	15+34.3929	884.5324	Tangent Length:	5		
PVC	12+94.6950	884.4989	PM	15+59.3929	884.664	Element: Symmetrical Parabola			
PM	13+14.6950	884.619	PVT	15+84.3929	884.5333	PVC	100+34.5016	885.6825	
PVT	13+34.6950	884.4378	VHIGH	15+59.4789	884.5984	PM	100+44.5016	885.8614	
VHIGH	13+10.6388	884.5468	Length:	50		PVT	100+54.5016	886.1598	
Length:	40		Entrance Grade:	0.53%		Length:	20		
Entrance Grade:	0.60%		Exit Grade:	-0.52%		Entrance Grade:	1.79%		
Exit Grade:	-0.91%		$r = (g_2 - g_1) / L$ :	-2.0986		Exit Grade:	2.98%		
$r = (g_2 - g_1) / L$ :	-3.7663		$K = I / (g_2 - g_1)$ :	47.6507		$r = (g_2 - g_1) / L$ :	5.9781		
$K = I / (g_2 - g_1)$ :	26.5515		Middle Ordinate:	-0.0656		$K = I / (g_2 - g_1)$ :	16.7276		
Middle Ordinate:	-0.0753		Element: Linear			Middle Ordinate:	0.0299		
Element: Linear			PVT	15+84.3929	884.5333	Element: Linear			
PVT	13+34.6950	884.4378	PVC	16+02.4434	884.4389	PVT	100+54.5016	886.1598	
POE	13+35.0070	884.435	Tangent Grade:	-0.52%		POE	100+71.2617	886.66	
Tangent Grade:	-0.91%		Tangent Length:	18.0505		Tangent Grade:	2.98%		
Tangent Length:	0.312		Element: Symmetrical Parabola			Tangent Length:	16.7601		
			PVC	16+02.4434	884.4389				
			PM	16+27.4434	884.3082				
			PVT	16+52.4434	884.5208				
			VLOW	16+21.4812	884.3891				
			Length:	50					
			Entrance Grade:	-0.52%					
			Exit Grade:	0.85%					
			$r = (g_2 - g_1) / L$ :	2.7464					
			$K = I / (g_2 - g_1)$ :	36.4118					
			Middle Ordinate:	0.0858					
			Element: Linear						
			PVT	16+52.4434	884.5208				
			POE	19+44.0011	887				
			Tangent Grade:	0.85%					
			Tangent Length:	291.5577					

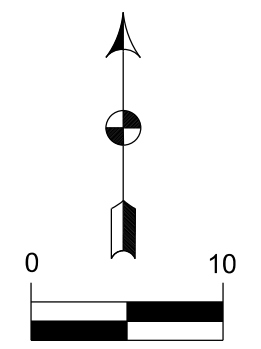
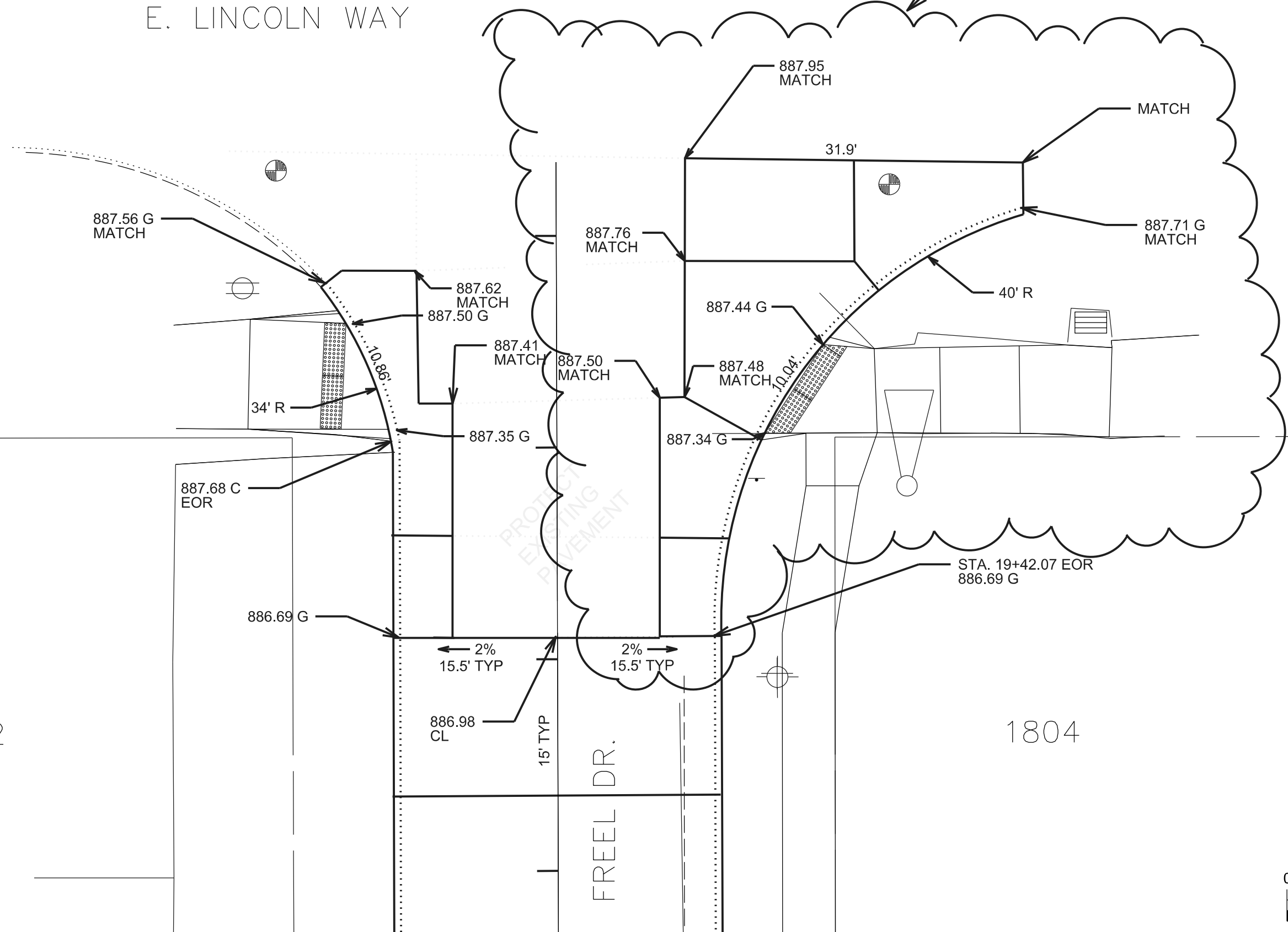
E. LINCOLN WAY

INCLUDE IN BASE BID

1712

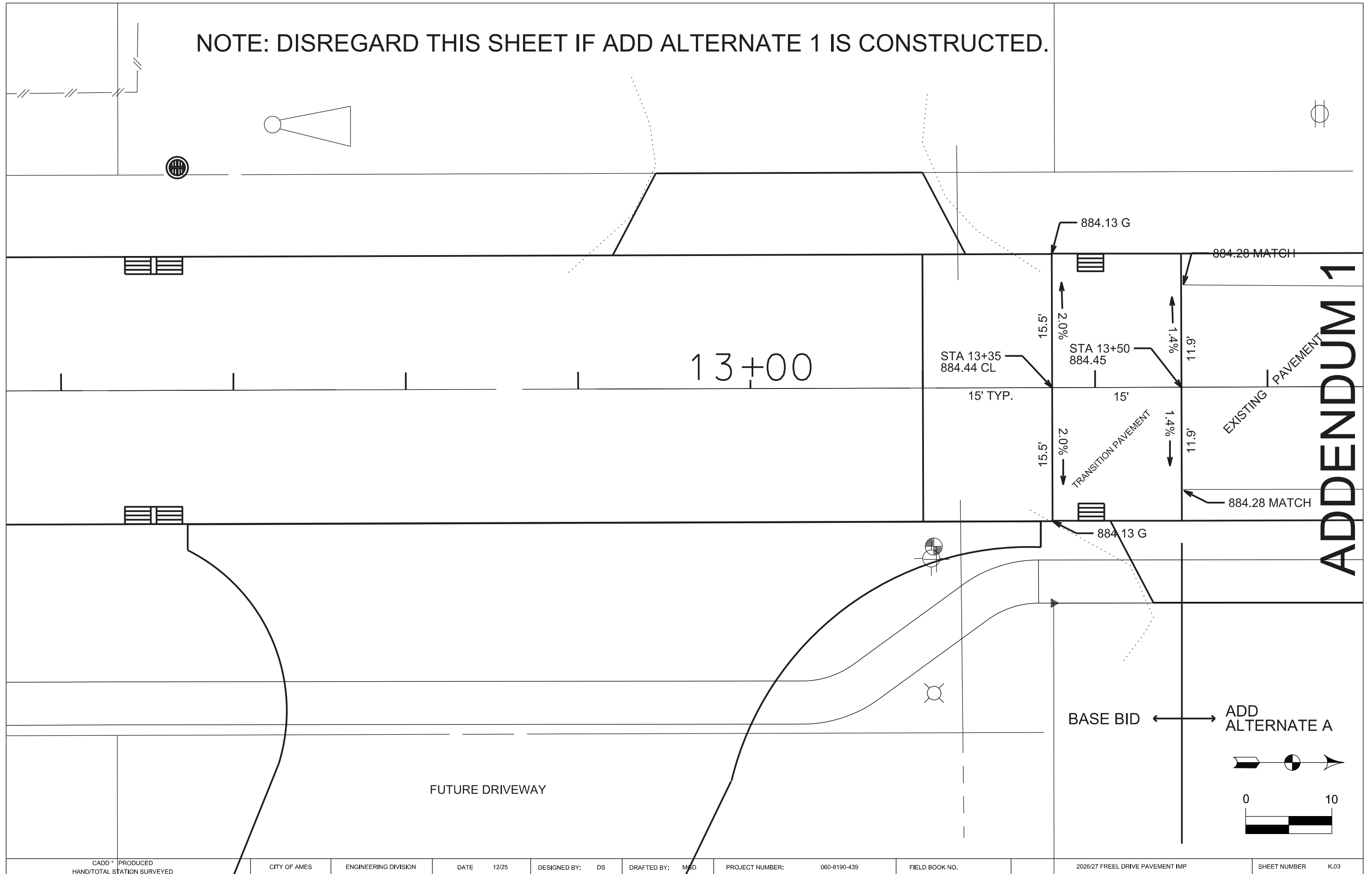
1804

FREEL DR.





NOTE: DISREGARD THIS SHEET IF ADD ALTERNATE 1 IS CONSTRUCTED.



ADDENDUM 1

FUTURE DRIVEWAY

13+00

STA 13+35  
884.44 CL

STA 13+50  
884.45

884.13 G

884.28 MATCH

15' TYP.

15'

2.0%

1.4%

2.0%

1.4%

TRANSITION PAVEMENT

EXISTING PAVEMENT

884.28 MATCH

884.13 G

BASE BID

ADD ALTERNATE A



TRAFFIC CONTROL NOTES:

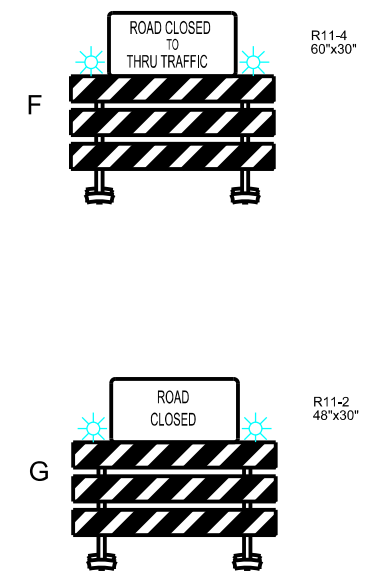
1. THE CONSTRUCTION ZONE SHALL BE LIMITED TO THE RIGHT-OF-WAY. NO EQUIPMENT, MATERIAL, OR PERSONNEL WILL BE ALLOWED ON PRIVATE PROPERTY.
2. CONTRACTOR SHALL PROVIDE A CONTACT PERSON AVAILABLE 24 HOURS, 7 DAYS PER WEEK TO MAINTAIN PROPER TRAFFIC CONTROL.
3. CONTRACTOR SHALL GIVE NOTICE TO THE CITY 48 HOURS IN ADVANCE OF LANE CLOSURES.
4. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE IDOT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130, AND APPLICABLE IDOT STANDARDS.
5. ALL SIGN WORDING SHALL COMPLY WITH CHAPTER 6 OF THE CURRENT EDITION OF THE MUTCD.
6. CONTRACTOR SHALL COORDINATE WITH OTHER PROJECTS THAT MAY BE SCHEDULED FOR THE SURROUNDING AREA.
7. FLAGGER OPERATIONS ARE INCIDENTAL TO THE TRAFFIC CONTROL BID ITEM.
8. GRADING, DRIVEWAYS AND PAVING MUST BE COMPLETED IN ONE PHASE BEFORE WORK IS STARTED ON THE REMAINING PHASE(S).
9. CONTRACTOR SHALL GAIN PERMISSION FROM THE ENGINEER PRIOR TO CLOSING ANY TWO PHASES CONCURRENTLY.
10. WORK IN THE E.LINCOLN WAY RIGHT-OF-WAY MUST OBTAIN A RIGHT-OF-WAY PERMIT FROM THE IDOT.
11. TRAFFIC CONTROL FOR CLOSURE OF PEDESTRIAN FACILITIES SHALL COMPLY WITH THE CURRENT EDITION OF THE MUTCD, CHAPTER 6D, AND THE CITY OF AMES STANDARD TRAFFIC CONTROL PLANS E-G. PHASING SHALL ALLOW SIDEWALK TO REMAIN FULLY OPEN TO PEDESTRIANS ON AT LEAST ONE SIDE OF EACH STREET AT ALL TIMES. FOR ALTERNATE PEDESTRIAN PHASING, CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN SHOWING PROPOSED PHASING AND THE PROPOSED PEDESTRIAN DETOUR ROUTE INCLUDING SIGNS AND PLACEMENT, TO BE APPROVED BY THE ENGINEER PRIOR TO ANY REMOVALS.
12. CONTRACTOR MAY SUBMIT AN ALTERNATE TRAFFIC CONTROL PLAN FOR THE ENGINEER'S APPROVAL.



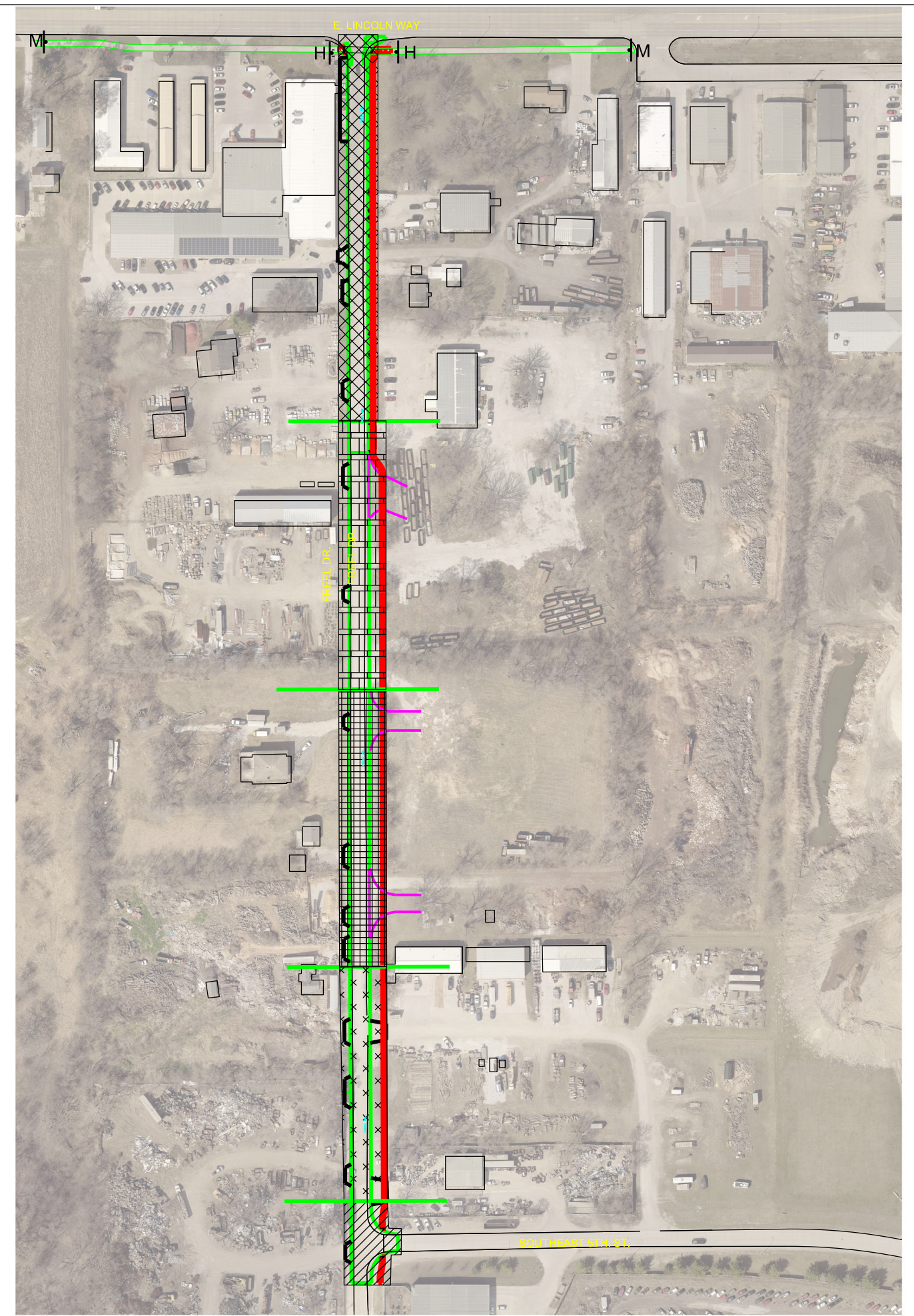
- H SIDEWALK CLOSED R9-9 36"x18"
- I END OF ROAD AHEAD R9-10 24"x12"
- J ROAD CLOSED AHEAD R9-11 24"x18"
- K ROAD CLOSED AHEAD R9-11A 24"x12"
- L SPECIAL R9-11A 24"x12"
- M SIDEWALK CLOSED AHEAD R9-9 36"x18"

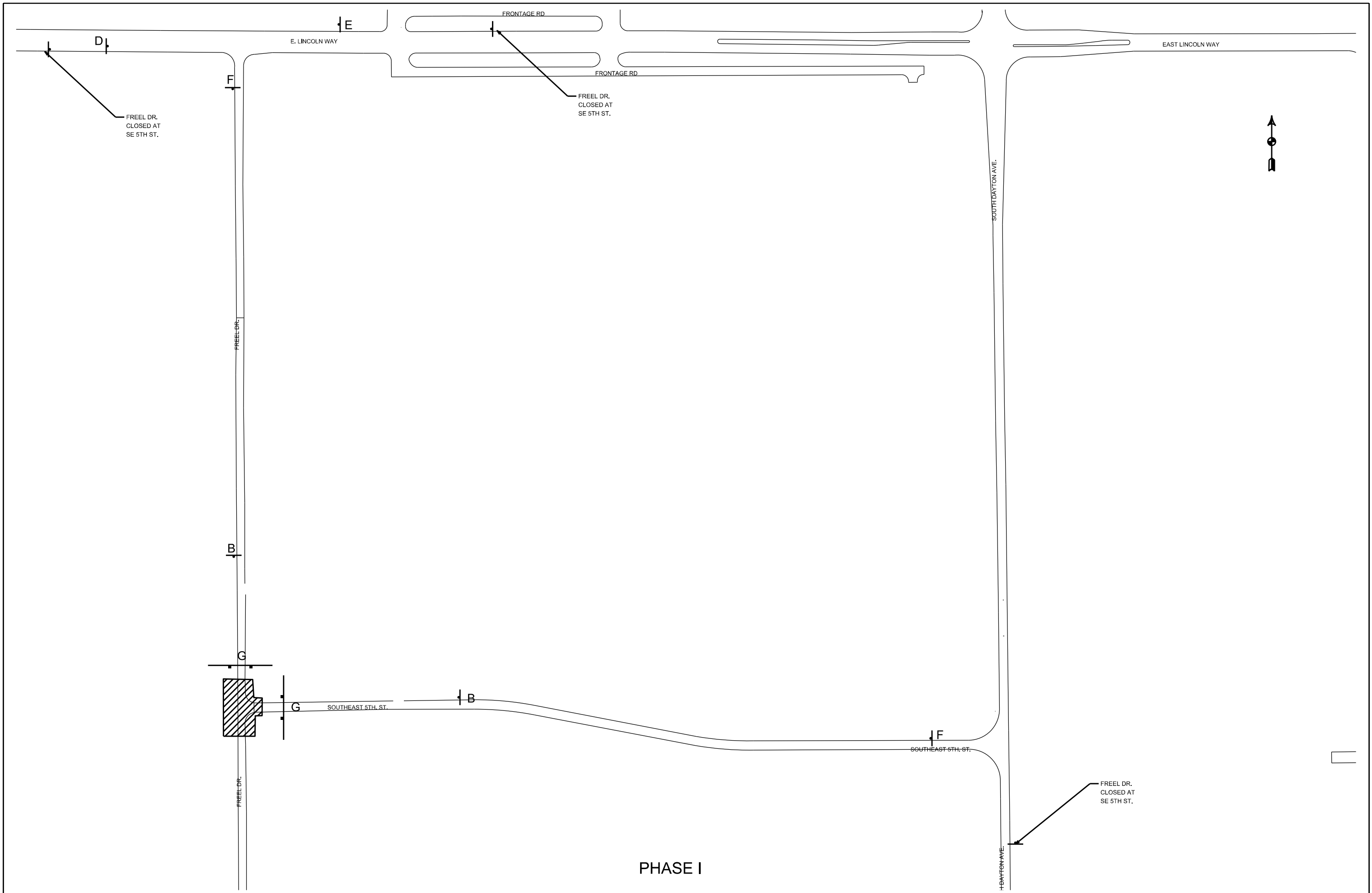
- PHASE I
- PHASE II
- PHASE III
- (ADD ALTERNATE A)
- PHASE V

- A W20-1 36"x26"
- B W20-3 36"x26"
- C G20-2 36"x18"
- D R3-1 24"x24"
- E R3-2 24"x24"

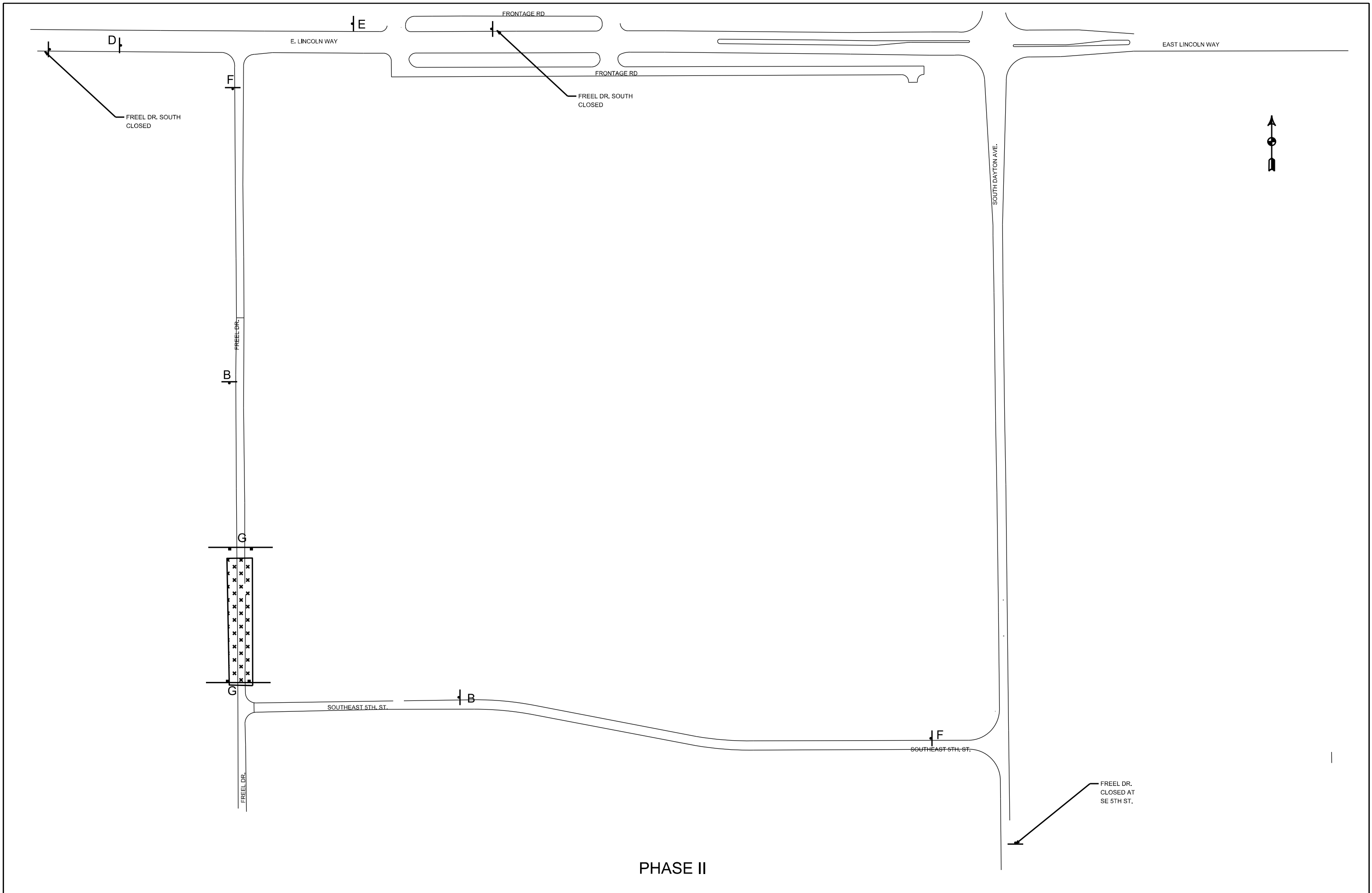


- SIGN
- TYPE III
- ORANGE SAFETY FENCE



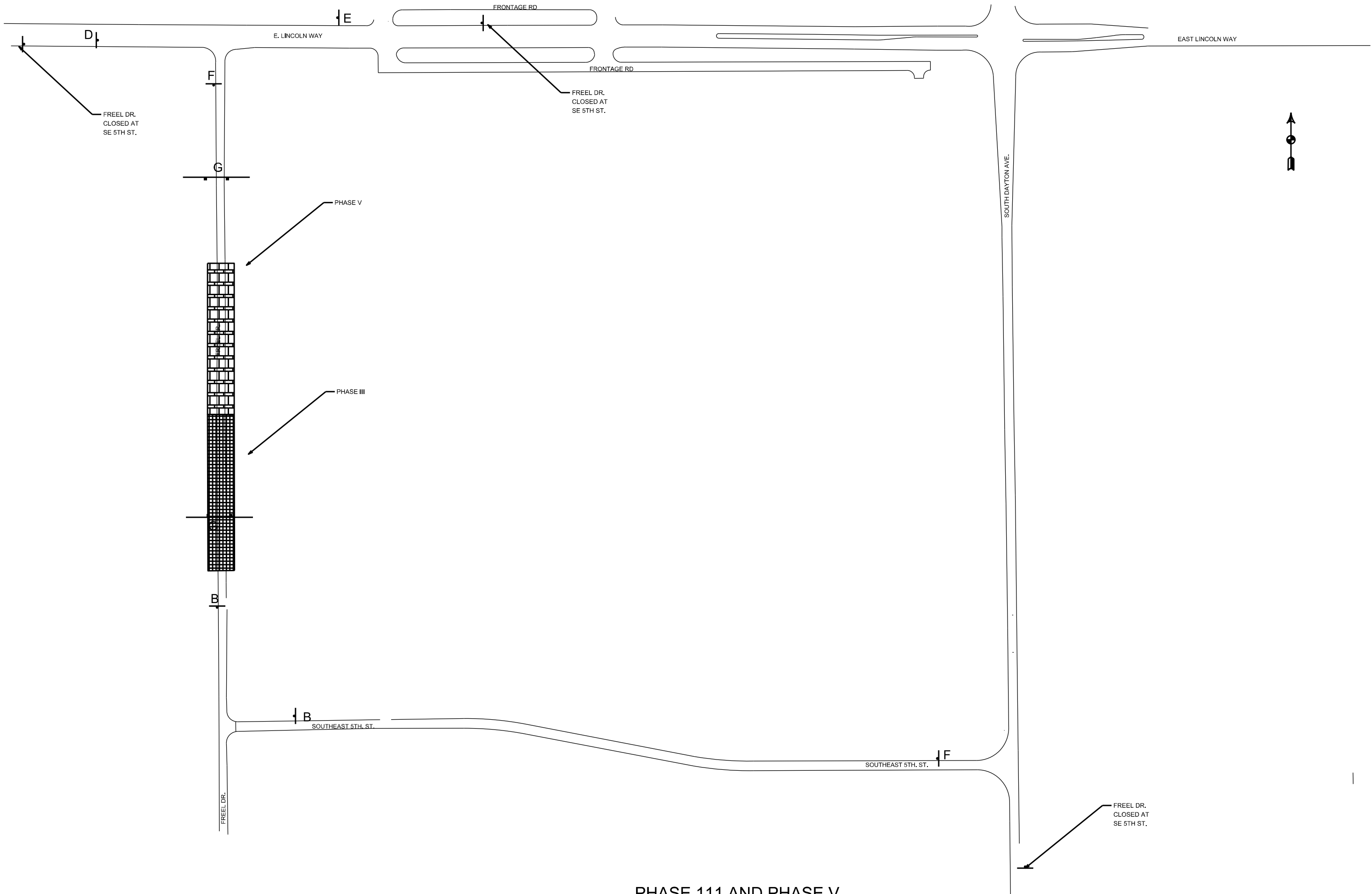


PHASE I

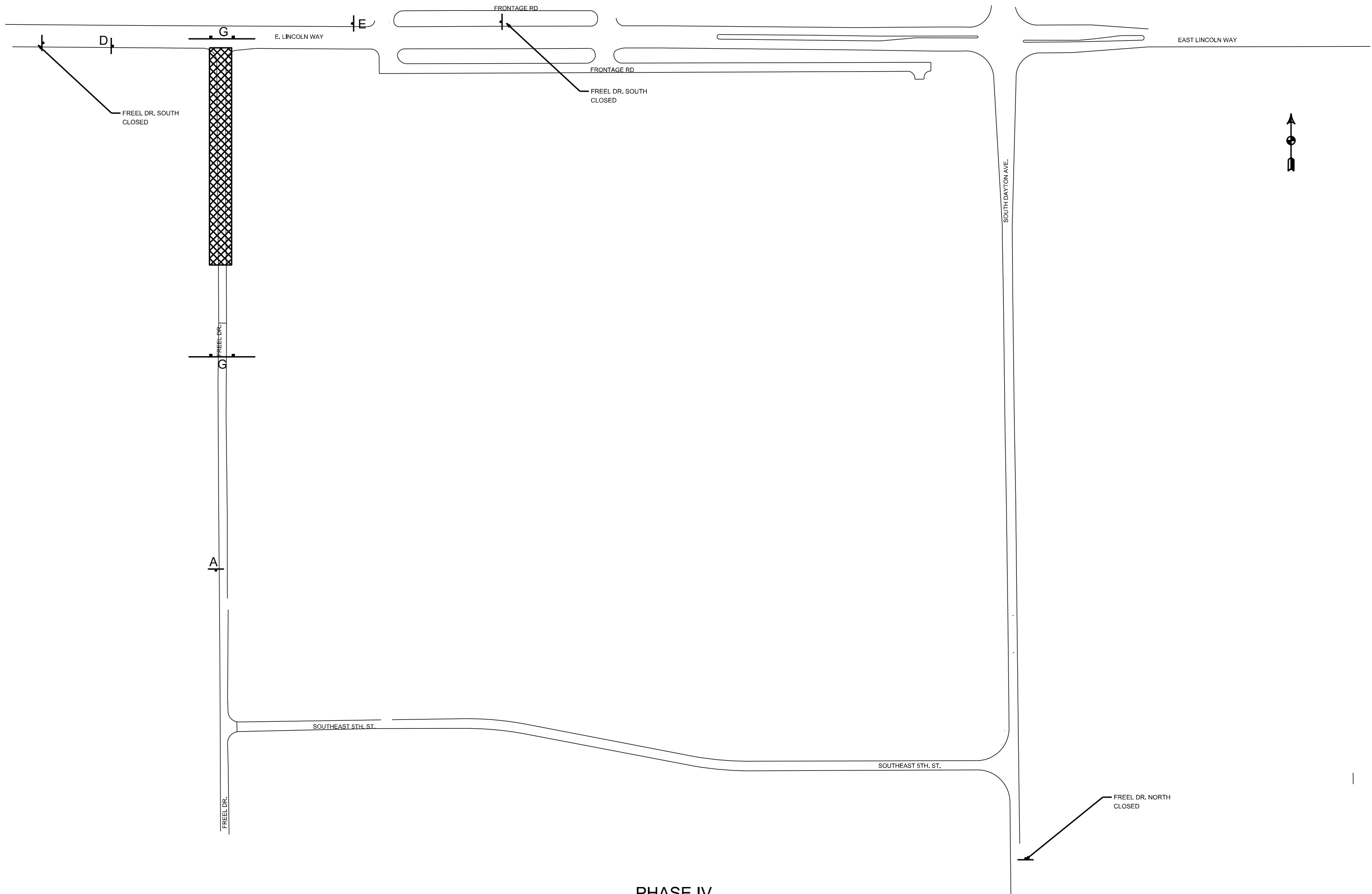


PHASE II

CADD * PRODUCED HAND/TOTAL STATION SURVEYED	CITY OF AMES	ENGINEERING DIVISION	DATE 12/25	DESIGNED BY: DS	DRAWN BY: MGD	PROJECT NUMBER: 060-8190-439	FIELD BOOK NO.	2026/27 FREEL DRIVE PAVEMENT IMP TRAFFIC CONTROL	SHEET NUMBER J.03
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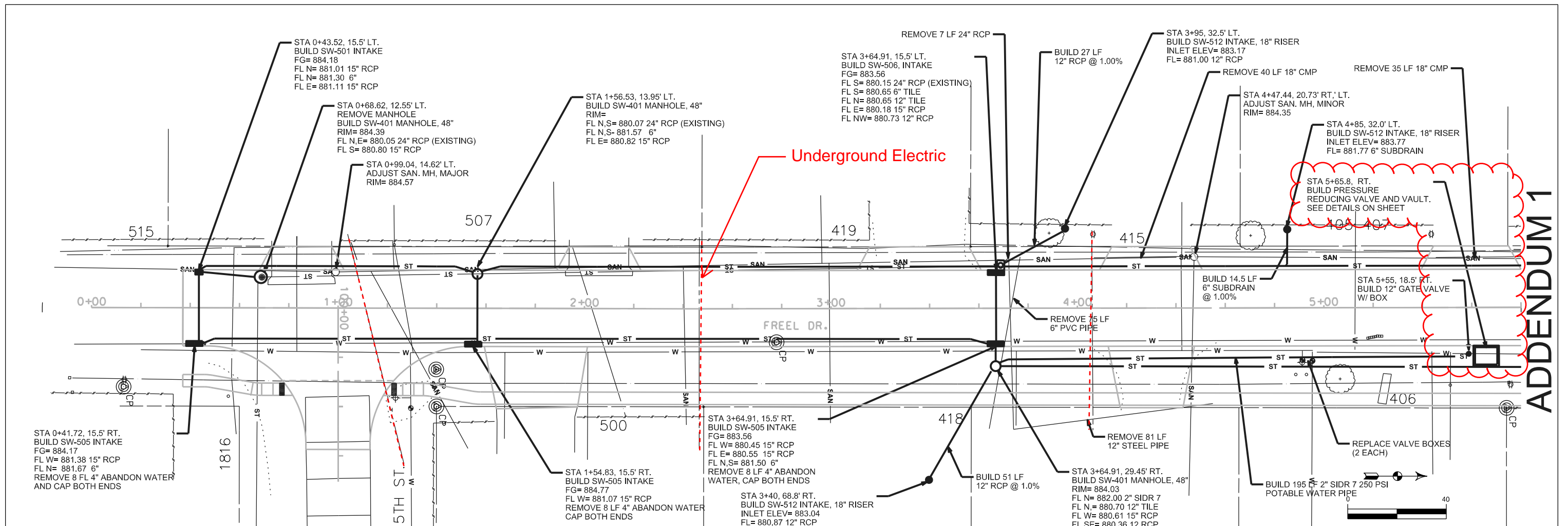


PHASE 111 AND PHASE V

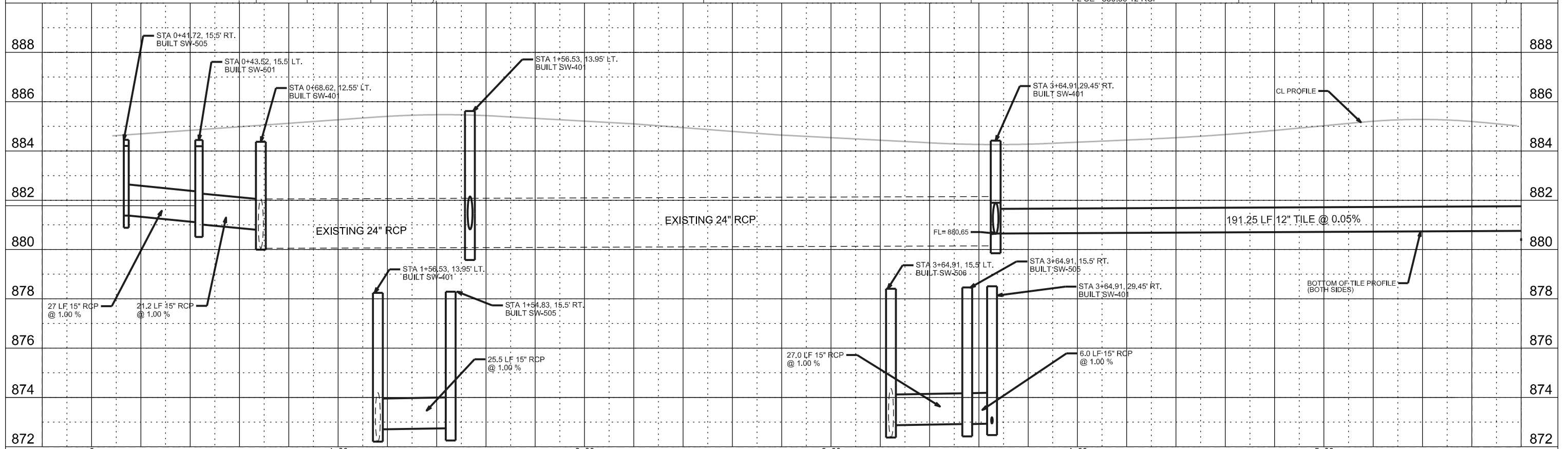


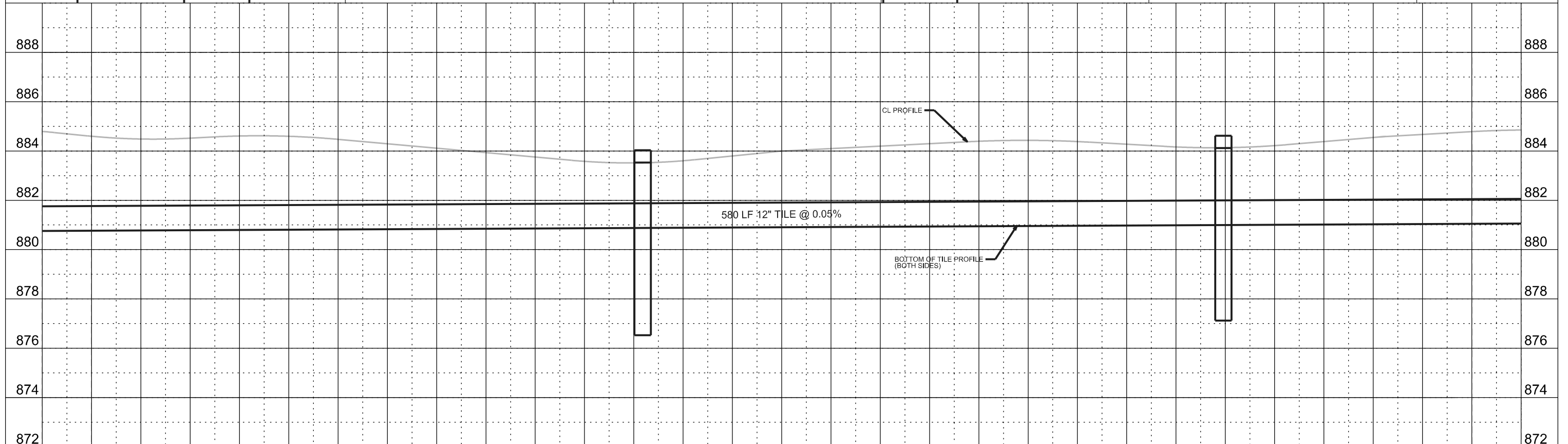
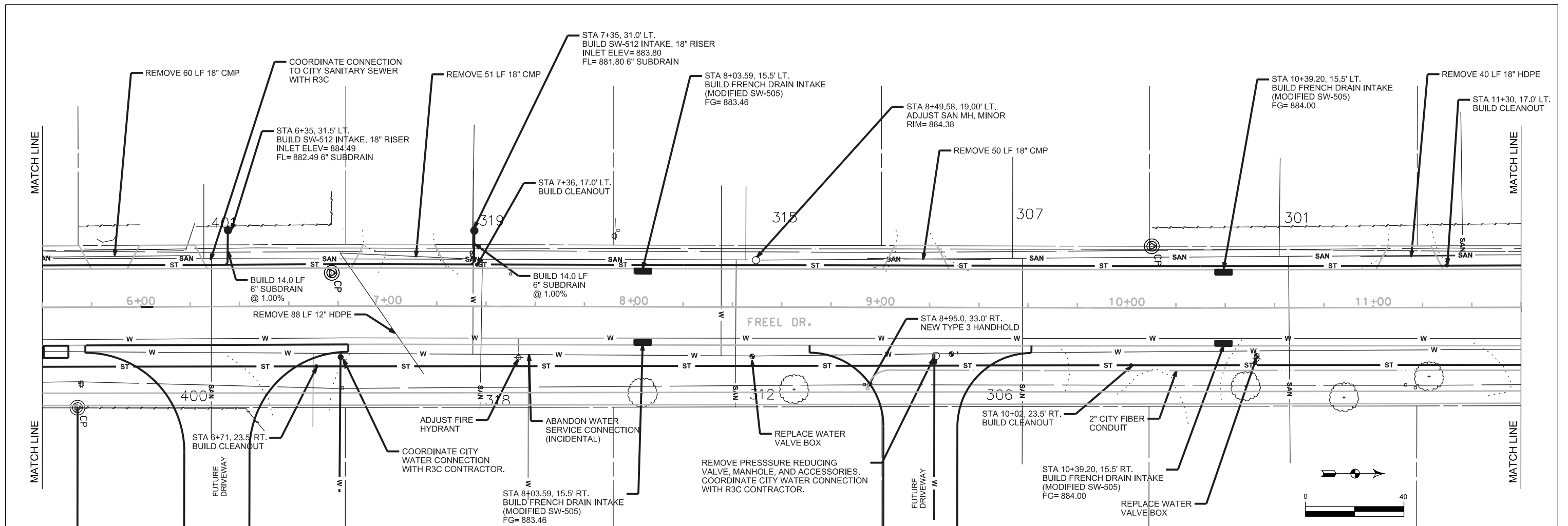
**PHASE IV**  
(ADD ALTERNATE A)

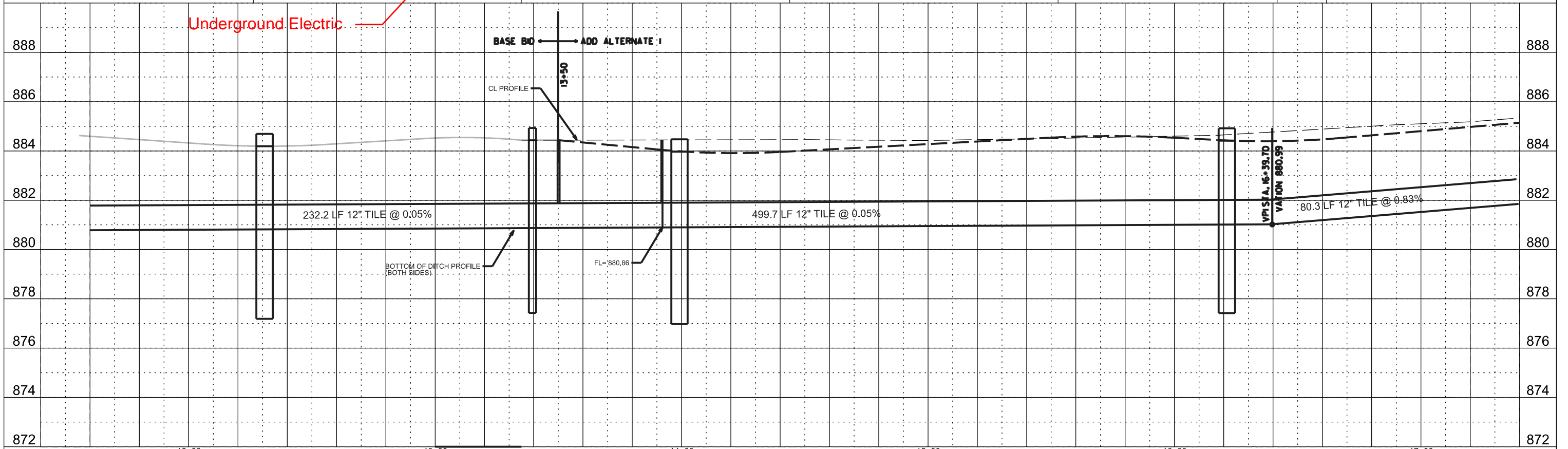
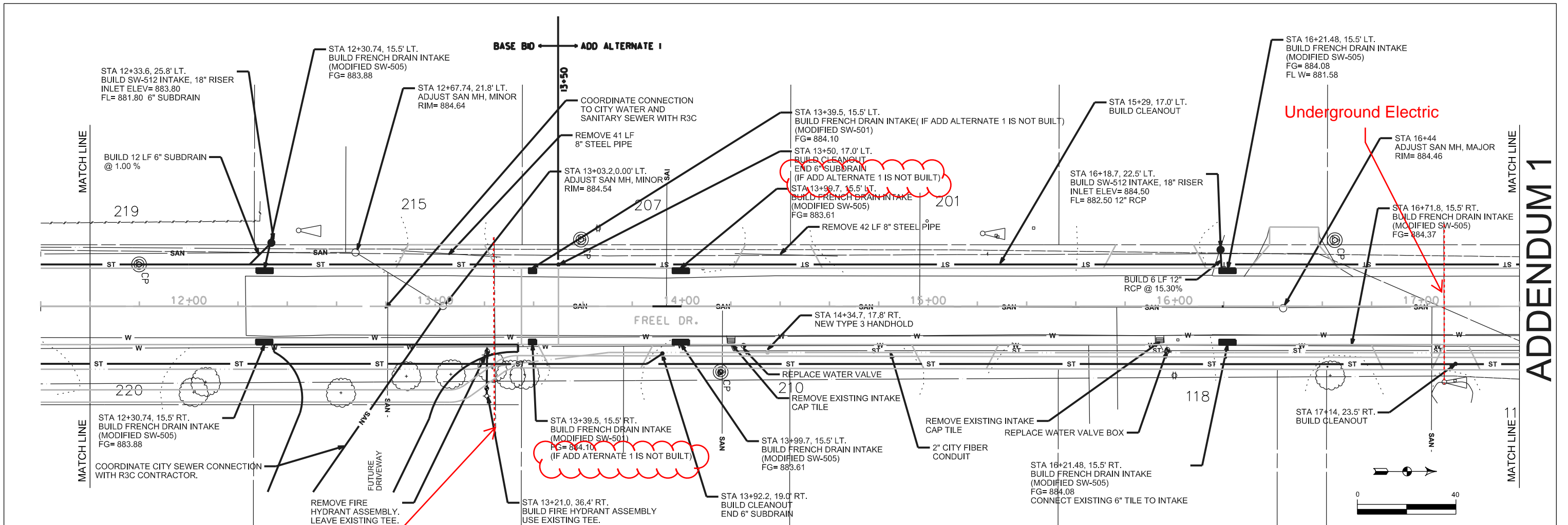
CADD * PRODUCED HAND/TOTAL STATION SURVEYED	CITY OF AMES	ENGINEERING DIVISION	DATE 12/25	DESIGNED BY: DS	DRAWN BY: MGD	PROJECT NUMBER: 060-8190-439	FIELD BOOK NO.	2026/27 FREEL DRIVE PAVEMENT IMP TRAFFIC CONTROL	SHEET NUMBER J.05
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ADDENDUM 1











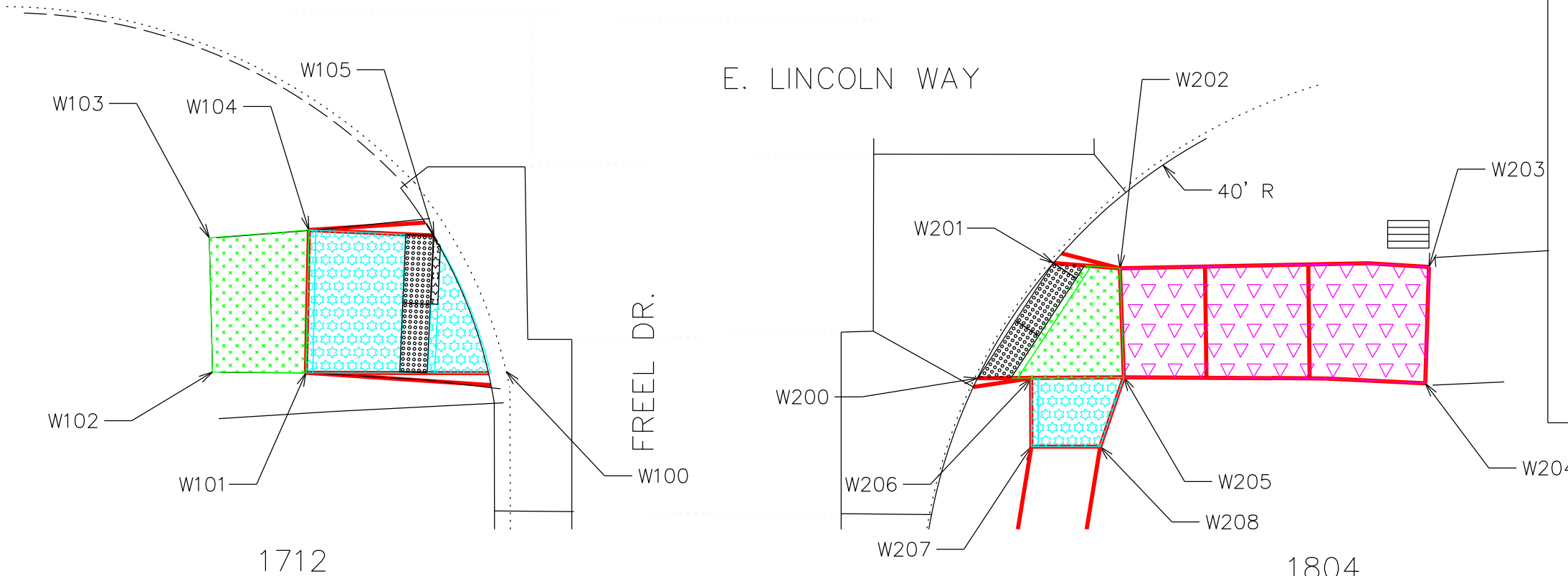




E. LINCOLN WAY

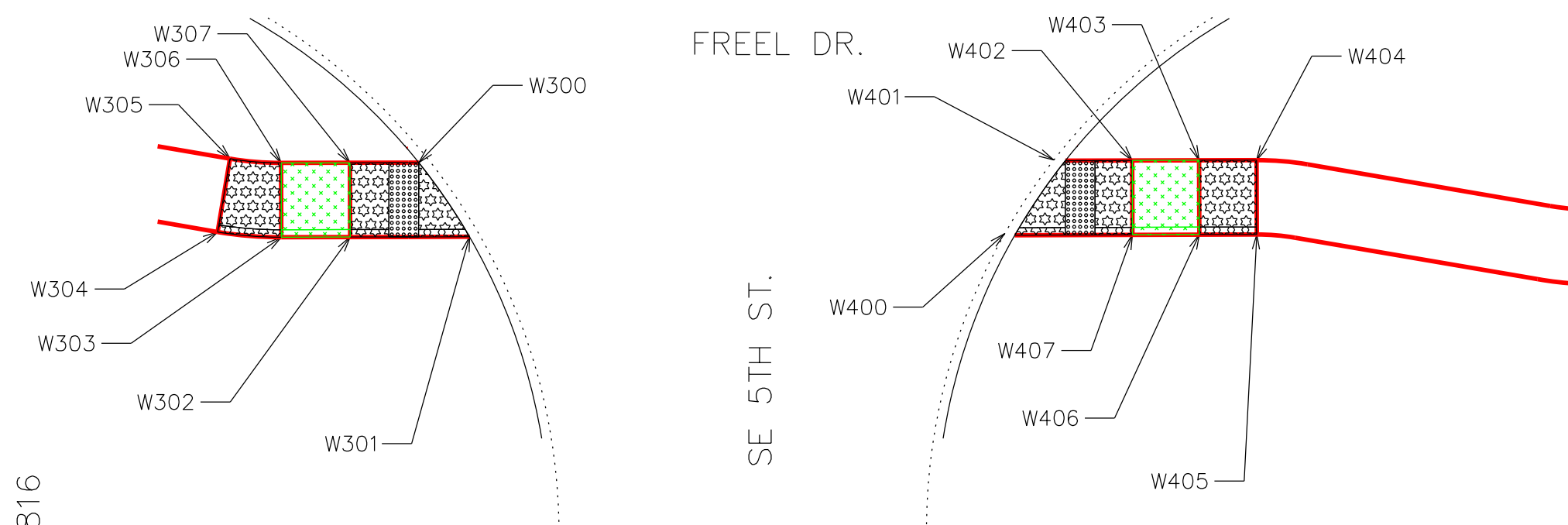
PEDESTRIAN FACILITY LEGEND

-  PROPOSED SIDEWALK LANDING  
RS: 0.1% - 2.0% CS: 0.1% - 2.0%
-  PROPOSED SIDEWALK RAMP  
RS: 5.0% - 8.3% CS: 0.1% - 2.0% OR 5.0%\*
-  PROPOSED SIDEWALK RAMP FLARE
-  PROPOSED SIDEWALK TRANSITION
-  PROPOSED SIDEWALK  
RS: 0.1% - 5.0% CS: 0.1% - 2.0%
-  SPECIAL SHAPING  
RS: 0.1% - 8.3% CS: 0.1% - 2.0% OR 5.0%\*



\* FIELD ADJUSTMENTS TO DESIGN SLOPES MAY BE ALLOWED AS LONG AS ACCEPTABLE RANGE FOR EACH SIDEWALK DESIGNATION IS MET.

Point	Elevation	Point to Point	Sidewalk Designation	Distance*	Δ Elevation	Slope	Legally Acceptable Range	Difference between Designed Slope and Maximum Legally Acceptable Range	Acceptable Constructed Range	Does Designer need to obtain design approval from Method's Engineer?	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks
W100	887.39	W100 W101	Sidewalk Running Slope	13.42	0.44	3.3%	0.5% to 5.0%	1.7%	0.5% to 5.0%					
W101	887.83	W101 W102	Landing/Turning Space	3.79	0.06	1.6%	0.1% to 2.0%	0.4%	0.1% to 2.0%	Yes	Yes			
W102	887.89	W102 W103	Landing/Turning Space	9.77	-0.12	-1.2%	0.1% to 2.0%	0.8%	0.1% to 2.0%					
W103	887.77	W103 W104	Landing/Turning Space	7.27	-0.01	-0.1%	0.1% to 2.0%	1.9%	0.1% to 2.0%					
W104	887.76	W104 W105	Sidewalk Running Slope	9.09	-0.21	-2.3%	0.5% to 5.0%	2.7%	0.5% to 5.0%					
W105	887.55	W105 W100	Crosswalk Cross Slope - Yield Condition	10.86	-0.16	-1.4%	0.0% to 2.0%	0.6%	0.0% to 2.0%					
		W101 W104	Landing/Turning Space	5.00	-0.07	-1.4%	0.1% to 2.0%	0.6%	0.1% to 2.0%					
W200	887.38	W200 W201	Crosswalk Cross Slope - Yield Condition	10.05	0.10	1.0%	0.0% to 2.0%	1.0%	0.0% to 2.0%					
W201	887.48	W201 W202	Landing/Turning Space	4.85	-0.02	-0.4%	0.1% to 2.0%	1.6%	0.1% to 2.0%					
W202	887.46	W202 W203	Ramp Running Slope	22.48	-1.64	-7.3%	0.5% to 8.3%	1.0%	0.5% to 8.3%					
W203	885.82	W203 W204	Match Existing Cross Slope	8.46	-0.05	-0.6%	Match Existing	FALSE	Match Existing					
W204	885.77	W204 W205	Ramp Running Slope	21.92	1.57	7.2%	0.5% to 8.3%	1.1%	0.5% to 8.3%					
W205	887.34	W205 W206	Landing/Turning Space	6.73	0.09	1.3%	0.1% to 2.0%	0.7%	0.1% to 2.0%					
W206	887.43	W206 W207	Sidewalk Running Slope	4.96	0.07	1.4%	0.5% to 5.0%	3.6%	0.5% to 5.0%					
W207	887.50	W207 W208	Sidewalk Cross Slope	5.00	0.03	0.6%	0.5% to 2.0%	1.4%	0.5% to 2.0%					
W208	887.53	W208 W205	Sidewalk Running Slope	5.31	-0.19	-3.6%	0.5% to 5.0%	1.4%	0.5% to 5.0%					
		W202 W205	Landing/Turning Space	7.93	-0.12	-1.5%	0.1% to 2.0%	0.5%	0.1% to 2.0%					



**PEDESTRIAN FACILITY LEGEND**

- PROPOSED SIDEWALK LANDING  
RS: 0.1% - 2.0% CS: 0.1% - 2.0%
- PROPOSED SIDEWALK RAMP  
RS: 5.0% - 8.3% CS: 0.1% - 2.0% OR 5.0%\*
- PROPOSED SIDEWALK RAMP FLARE
- PROPOSED SIDEWALK TRANSITION
- PROPOSED SIDEWALK  
RS: 0.1% - 5.0% CS: 0.1% - 2.0%
- SPECIAL SHAPING  
RS: 0.1% - 8.3% CS: 0.1% - 2.0% OR 5.0%\*

\* FIELD ADJUSTMENTS TO DESIGN SLOPES MAY BE ALLOWED AS LONG AS ACCEPTABLE RANGE FOR EACH SIDEWALK DESIGNATION IS MET.

Point	Elevation	Point to Point		Sidewalk Designation	Distance*		Slope	Legally Acceptable Range	Difference between Designed Slope and Maximum Legally Acceptable Range	Acceptable Constructed Range	Does Designer need to obtain design approval from Method's Engineer?	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	
		FT	FT		FT	%										Pos. or Neg.
W300	885.31	W300	W301	Crosswalk Cross Slope - Yield Condition	6.06	0.09	1.5%	0.0% to 2.0%	0.5%	0.0% to 2.0%						
W301	885.40	W301	W302	Sidewalk Running Slope	8.03	0.03	0.4%	0.5% to 5.0%	4.6%	0.5% to 5.0%						
W302	885.43	W302	W303	Landing/Turning Space	4.63	-0.07	-1.5%	0.1% to 2.0%	0.5%	0.1% to 2.0%						
W303	885.36	W303	W304	Sidewalk Running Slope	4.31	-0.05	-1.2%	0.5% to 5.0%	3.8%	0.5% to 5.0%						
W304	885.31	W304	W305	Sidewalk Cross Slope	5.00	-0.07	-1.4%	0.5% to 2.0%	0.6%	0.5% to 2.0%						
W305	885.24	W305	W306	Sidewalk Running Slope	3.45	0.05	1.4%	0.5% to 5.0%	3.6%	0.5% to 5.0%						
W306	885.29	W306	W307	Landing/Turning Space	4.63	0.07	1.5%	0.1% to 2.0%	0.5%	0.1% to 2.0%						
W307	885.36	W307	W302	Landing/Turning Space	5.00	-0.07	-1.4%	0.1% to 2.0%	0.6%	0.1% to 2.0%						
			W303	Sidewalk Cross Slope	5.00	-0.07	-1.4%	0.5% to 2.0%	0.6%	0.5% to 2.0%						
			W304	Sidewalk Cross Slope	5.00	-0.07	-1.4%	0.5% to 2.0%	0.6%	0.5% to 2.0%						
			W305	Sidewalk Cross Slope	5.00	-0.07	-1.4%	0.5% to 2.0%	0.6%	0.5% to 2.0%						
			W307	Sidewalk Running Slope	4.63	-0.05	-1.1%	0.5% to 5.0%	3.9%	0.5% to 5.0%						
W400	885.56	W400	W401	Crosswalk Cross Slope - Yield Condition	6.06	-0.11	-1.8%	0.0% to 2.0%	0.2%	0.0% to 2.0%						
W401	885.45	W401	W402	Sidewalk Running Slope	4.50	0.18	4.0%	0.5% to 5.0%	1.0%	0.5% to 5.0%						
W402	885.63	W402	W403	Landing/Turning Space	4.50	0.06	1.3%	0.1% to 2.0%	0.7%	0.1% to 2.0%						
W403	885.69	W403	W404	Sidewalk Running Slope	3.86	0.05	1.3%	0.5% to 5.0%	3.7%	0.5% to 5.0%						
W404	885.74	W404	W405	Sidewalk Running Slope	3.86	-0.06	-1.6%	0.5% to 5.0%	3.4%	0.5% to 5.0%						
W405	885.82	W405	W406	Landing/Turning Space	4.50	-0.06	-1.3%	0.1% to 2.0%	0.7%	0.1% to 2.0%						
W406	885.76	W406	W407	Sidewalk Running Slope	7.92	-0.14	-1.8%	0.5% to 5.0%	3.2%	0.5% to 5.0%						
W407	885.70	W407	W402	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%	0.6%	0.1% to 2.0%						
			W403	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%	0.6%	0.1% to 2.0%						
			W404	Sidewalk Cross Slope	5.00	0.08	1.6%	0.5% to 2.0%	0.4%	0.5% to 2.0%	Yes	Yes				



Quantities Included in the Traffic Signalization Bid Item:

1. Handhole, Type 3, EA: 2
2. Conduit, 2" HDPE Trenched, LF: 1110
3. Cable, Tracer 1c#10, LF: 1110
4. Pull Rope, LF: 1110
5. Connection to Existing Handhole, EA: 1

Notes:

1. Type 3 Handholes shall be Quazite 24 inch by 36 inch "PG" Style (stackable) Assembly or approved equal. The handhole shall have a one-piece cover rated for heavy-duty loading. The legend "Traffic Signal" shall be on the lid and be secured by two stainless steel bolts. A minimum of four cable hooks shall be installed in each handhole to support the signal cables.
2. All Handholes shall be installed in a neat and workmanlike manner. All conduits shall enter the hand hole at a depth of 12 inches from the top of the hand hole. The ends of all conduit leading into the hand hole shall fit approximately 2 inches beyond the inside wall. A coarse aggregate drain of 1 inch clean stone or gravel shall be provided.
3. Conduit shall meet the requirements of Section 2525 and Article 4185.10 of the Iowa DOT Standard Specifications. Conduit shall be 2" HDPE, green in color, with an SDR of 13.5. When approved, conduit sweeps and connections at handholes can be polyvinyl chloride (PVC) conduit and shall meet the requirements of NEMA TC-2, Type 2, and applicable UL Standards, and shall be coupled with either a Duraline E-Loc coupler, or a Duraline Shur-Lock II coupler, or approved equal.
4. Conduit shall be placed as shown on the plans. Change in direction of conduit shall be accomplished by bending such that the conduit will not be injured or its internal diameter changed. Bends shall be of uniform curvature and the inside radius of curvature of any bend shall not be less than six times the internal diameter of the conduit.
5. Conduit shall be placed a minimum of 24 inches deep unless otherwise directed by the Engineer.
6. All conduit openings in hand holes shall be sealed with an approved sealing compound. This compound shall be readily workable soft plastic. It shall be workable at temperatures as low as 30-DEG Fahrenheit, and shall not melt or run at temperatures as high as 300-DEG Fahrenheit.
7. Tracer Wire and pull rope shall be installed in all conduits. The tracer wire shall be a No. 10 AWG, single conductor, stranded copper, Type THHN, with UL approved and an orange colored jacket. The tracer wire shall be spliced in the hand holes to form a continuous network. The splice shall be a soldered connection and then covered with a wire nut.

**PROPOSAL FORM**

For the Construction  
of  
**Freel Drive Paving**

To provide all labor, equipment, materials, transportation, and other components as specified herein to the City of Ames, Iowa.

Name of Bidder \_\_\_\_\_  
Address of Bidder \_\_\_\_\_  
\_\_\_\_\_

To the City of Ames, Iowa:

The undersigned bidder submits herewith bid security in the amount of 5% of the bid in accordance with the terms set forth in the "Instructions to Bidders".

The undersigned as bidder, having examined and determined the scope of the contract documents, hereby proposes to provide the required labor, services, materials, and equipment, and to perform the work as described in the contract documents, F.O.B. Ames, Iowa, including addenda \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ as follows.

**Complete entries for ALL bid items for the Base Bid and Alternate 1, Alternate 2, and Alternate 3 on the Proposal Form. Failure to complete all items may deem the Bid as non-responsive.**

**BASE BID**

Item #	Item Code	Qty.	Unit	Description	Unit Price	Total Amount
				<b>Division 1 - General</b>		
				(Not Used)		
				<b>Division 2 - Earthwork</b>		
2.1	2010-C	1	ls	Clearing and Grubbing		
2.2	2010-D-3	630	cy	Topsoil, Off-site		
2.3	2010-E	3752	cy	Excavation, Class 10		
2.4	2010-E	958	sy	Excavate Unsuitable Subgrade, 12" Depth		
2.5	2010-G	5652	sy	Subgrade Preparation, 12" Depth		
2.6	2010-I-1	5652	sy	Special Backfill, 6" Depth		
2.7	2010-I-2	958	sy	Subgrade Treatment, Geogrid Type 1		
				<b>Division 3 - Trench, Backfill and Tunnelling</b>		
				(Not Used)		
				<b>Division 4 - Sewers and Drains</b>		
4.1	4020-A-1	84	lf	Storm Sewer, Trenched, RCP, 12" dia.		
4.2	4020-A-1	106.7	lf	Storm Sewer, Trenched, RCP, 15" dia.		
4.3	4020-D	337	lf	Removal of Storm Sewer, any type or size		
4.4	4040-B	644	lf	Footing Drain Collector and Fittings, PVC, 6" dia.		
4.5	4040-B	2062	lf	Footing Drain Collector and Fittings, PVC, 12" dia.		
4.6	4040-C-2	4	ea	Footing Drain Cleanout, Type A-2, 6" dia.		
4.7	4040-D-2	13	ea	Footing Drain Outlets and Connections, PVC, 6"		
				<b>Division 5 - Water Mains and Appurtenances</b>		
5.1	5010-A-1	195	lf	Water Main, Trenched, Poly SIDR 7 250 PSI, 2"		
5.2	5010-F	4	ea	Water Main Abandonment, Cap, 4"		
5.3	5010-H	16	lf	Water Main Removal, 4"		
5.4	5020-A	2	ea	Valve, Gate, 12"		
5.5	5020-C	1	ea	Fire Hydrant Assembly		
5.6	5020-A	1	ea	Pressure Reducing Valve, Removal		
5.7	5020-A	1	ea	Pressure Reducing Valve, Installation, complete		
5.8	5020-J	1	ea	Remove Fire Hydrant Assembly		
5.9	5020-H	4	ea	Valve Box Replacement		
5.10	5020-I	1	ea	Fire Hydrant Adjustment		
				<b>Division 6 - Structures for Sanitary and Storm Sewer</b>		
6.1	6010-A-1	3	ea	Manhole Type SW-401, 48" dia.		
6.2	6010-B-1	1	ea	Intake Type SW-501		
6.3	6010-B-1	3	ea	Intake Type SW-505		
6.4	6010-B-1	1	ea	Intake Type SW-506		
6.5	6010-B-1	6	ea	Intake French Drain (Modified SW-505)		
6.6	6010-B-1	2	ea	Intake French Drain (Modified SW-501)		
6.7	6010-B-1	5	ea	Intake Type SW-512		
6.8	6010-E-1	1	ea	Manhole Adjustment, Major		
6.9	6010-E-1	4	ea	Manhole Adjustment, Minor		
6.10	6010-H-1	1	ea	Remove Manhole		

**BASE BID**

Item #	Item Code	Qty.	Unit	Description	Unit Price	Total Amount
				<b>Division 7 - Streets and Related Work</b>		
7.1	7010-A	4791	sy	Pavement, PCC, 8", Type C		
7.2	7030-A-1	4.6	sy	Removal of Sidewalk		
7.3	7030-A-2	178.4	sy	Removal of Driveway		
7.4	7030-E	31.2	sy	Sidewalk, PCC, 6" depth		
7.5	7030-G	20	sf	Detectable Warning		
7.6	7030-H-1	523.2	sy	Driveway, Paved, PCC, 8" depth		
7.7	7030-H-2	30	TON	Driveway, Granular, 6" depth		
7.8	7040-H	411	sy	Pavement Removal		
				<b>Division 8 - Traffic Control</b>		
8.1	8030-A	1	ls	Temporary Traffic Control		
8.2		1	ls	Traffic Signalization		
				<b>Division 9 - Sitework and Landscaping</b>		
9.1	9040-F-1	1000	lf	Wattles		
9.2	9040-T-1	18	ea	Inlet Protection Device,		
9.3	9040-T-2	36	ea	Inlet Protection Device, Maintenance		
				<b>Division 10 - Demolition</b>		
				(Not Used)		
				<b>Division 11 - Miscellaneous</b>		
11.1	11010-A-1	1	ls	Construction Survey/Staking		
11.2	11030-A	1	ls	Maintenance of Postal Service		
11.3	11999-A	1	ls	Pedestrian Facility Construction Survey & Staking		
11.4	11010-B	1	ea	Monument Preservation or Replacement		
11.5	11020-A	1	ls	Mobilization		
11.6	11060-A	1	ls	Concrete Washout		
					<b>TOTAL BASE BID</b>	

**ALTERNATE 1**

Item #	Item Code	Qty.	Unit	Description	Unit Price	Total Amount
				<b>Division 1 - General</b>		
				(Not Used)		
				<b>Division 2 - Earthwork</b>		
2.1	2010-C	1	ls	Clearing and Grubbing		
2.2	2010-D-3	725	cy	Topsoil, Off-site		
2.3	2010-E	979.6	cy	Excavation, Class 10		
2.4	2010-E	413	sy	Excavate Unsuitable Subgrade, 12" Depth		
2.5	2010-G	2518.9	sy	Subgrade Preparation, 12" Depth		
2.6	2010-I-1	2518.9	sy	Special Backfill, 6" Depth		
2.7	2010-I-2	413	sy	Subgrade Treatment, Geogrid Type 1		
				<b>Division 3 - Trench, Backfill and Tunnelling</b>		
				(Not Used)		
				<b>Division 4 - Sewers and Drains</b>		
4.3	4020-D	347	lf	Removal of Storm Sewer, any type or size		
4.4	4040-B	1160	lf	Footing Drain Collector and Fittings, PVC, 12" dia.		
4.5	4040-C-2	4	ea	Footing Drain Cleanout, Type A-2, 6" dia.		
4.6	4040-D-2	2	ea	Footing Drain Outlets and Connections, PVC, 6"		

**ALTERNATE 1**

Item #	Item Code	Qty.	Unit	Description	Unit Price	Total Amount
<b>Division 5 - Water Mains and Appurtenances</b>						
5.8	5020-H	2	ea	Valve Box Replacement		
5.9	5020-I	1	ea	Fire Hydrant Adjustment		
<b>Division 6 - Structures for Sanitary and Storm Sewer</b>						
6.5	6010-B-1	4	ea	Intake French Drain (Modified SW-505)		
6.6	6010-B-1	2	ea	Intake French Drain (Modified SW-501)		
6.8	6010-E-1	1	ea	Manhole Adjustment, Major		
6.9	6010-E-1	1	ea	Manhole Adjustment, Minor		
6.1	6010-H-2	2	ea	Remove Intake		
<b>Division 7 - Streets and Related Work</b>						
7.1	7010-A	2064	sy	Pavement, PCC, 8", Type C		
7.2	7030-A-1	51.8	sy	Removal of Sidewalk		
7.3	7030-A-2	220.5	sy	Removal of Driveway		
7.5	7030-G	50	sf	Detectable Warning		
7.6	7030-H-1	433.3	sy	Driveway, Paved, PCC, 8" depth		
7.8	7040-H	1671.2	sy	Pavement Removal		
<b>Division 8 - Traffic Control</b>						
8.1	8030-A	1	ls	Temporary Traffic Control		
<b>Division 9 - Sitework and Landscaping</b>						
9.1	9040-F-1	1000	lf	Wattles		
9.2	9040-T-1	6	ea	Inlet Protection Device,		
9.3	9040-T-2	12	ea	Inlet Protection Device, Maintenance		
<b>Division 10 - Demolition</b>						
(Not Used)						
<b>Division 11 - Miscellaneous</b>						
11.1	11010-A-1	1	ls	Construction Survey/Staking		
11.2	11030-A	1	ls	Maintenance of Postal Service		
11.3	11999-A	1	ls	Pedestrian Facility Construction Survey & Staking		
11.4	11010-B	1	ea	Monument Preservation or Replacement		
11.5	11020-A	1	ls	Mobilization		
<b>TOTAL ALTERNATE 1</b>						

**ALTERNATE 2**

7.4	7030-E	700.6	sy	Sidewalk, PCC, 6" depth		
<b>TOTAL ALTERNATE 2</b>						

**ALTERNATE 3**

7.4	7030-E	346.2	sy	Sidewalk, PCC, 6" depth		
<b>TOTAL ALTERNATE 3</b>						

<b>TOTAL, BASE BID + ALTERNATE 1, 2, 3</b>						
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The undersigned bidder certifies that this proposal is made in good faith without collusion or connection with any other person or persons bidding on the work.

The undersigned bidder states that this proposal is made in conformity with the contract documents and agrees that, in the event of any discrepancies or differences between any conditions of this proposal and the contract documents prepared by the City of Ames, Iowa, the provisions of the latter shall prevail.

**The contractor shall not include sales or use taxes in the bid. Pursuant to Iowa Code and Iowa Administrative Code, the contractor will be authorized to purchase building materials that will be incorporated into real property on this project tax-free.**

Submitted this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

Company Name of Bidder \_\_\_\_\_

Address of Bidder \_\_\_\_\_

Signature of Authorized Agent \_\_\_\_\_

Printed Name and Title \_\_\_\_\_

Telephone Number \_\_\_\_\_

Fax Number \_\_\_\_\_

E-mail \_\_\_\_\_

Check appropriate box:

- Individual/Sole Proprietor
- Corporation
- Partnership
- Other

Taxpayer Identification Number (TIN): Please provide TIN Employer identification number

\_\_\_\_\_ - \_\_\_\_\_

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## **ESTIMATE REFERENCE**

- 2.2 2010-D-1 TOPSOIL, OFF-SITE (CY).** This item shall include all labor, material, and equipment necessary to place 8" of topsoil in all disturbed areas. Onsite or suitable off site topsoil meeting SUDAS 2010.2.01 and City of Ames Supplemental Specifications may be used. Topsoil shall be rough graded in anticipation of seed bed preparation by others. Payment shall be per cubic yard.
- 2.3 2010-E EXCAVATION, CLASS 10 (CY)** This item will include all areas shown in Typical Section B.01 called out as Class 10 Excavation Limit. Calculated quantities, Cut -3418 CY, Fill + 344 CY without shrink.
- 2.4 2010-E EXCAVATION, UNSUITABLE SOIL (SY).** This item shall be used for the removal and replacement of soft areas encountered on seal coat reconstruction streets deemed unstable by the engineer's representative. Bid quantity is based on 20% of the proposed pavement quantity. Payment shall be per square yard.
- 2.5 2010 -G SUBGRADE PREPARATION 12" DEPTH (SY)** This item includes subgrade compaction testing.
- 2.7 2010-I-2 SUBGRADE TREATMENT, GEOGRID (SY).** This item shall include furnishing and placement of Geogrid in areas determined by the Engineer's representative. Bid quantity is based on 20% of the proposed pavement quantity.
- 4.1,4.2 4020-A-1 STORM SEWER PIPE, 12, 15" RCP, CLASS III (LF).** This bid item shall be in accordance with Section 3010 & 4010 of the SUDAS Standard Specifications and shall include all equipment, labor and materials to place pipe as noted on the plans. Pipe connections to storm structures shall be included in this bid item, including but not limited to coring or cutting into the existing manhole or intake, pipe connections, grout, and waterstop (when required). Backfill shall be per Class R-2, with Class I granular bedding material up to springline of pipe unless otherwise noted in the plans. Payment shall be per lineal foot.
- 4.3 4020-D REMOVAL OF STORM SEWER, (ANY TYPE AND SIZE) (LF).** This bid item include all equipment, labor, materials, hauling and proper disposal of removed pipe as shown on the plans. Any pipe damaged beyond the removal limits during construction shall be repaired and/or replaced at no cost to the City. The removed pipe shall become property of the Contractor to be disposed of at an off-site location. Payment shall be per linear feet of pipe removed.
- 4.4, 4.5 4040-B FOOTING DRAIN COLLECTOR, TYPE 2, 6", 12" PVC (LF).** This bid item shall be in accordance with Section 4040 of the SUDAS Standard Specifications and shall include all equipment, labor and materials to place subdrain as noted on the plans. All fittings, including cleanout assemblies, and tying into existing structures shall be considered incidental unless noted otherwise in the plans, subdrain shall be installed per Case D, Type 2 of SUDAS Figure 4040.231. Engineering fabric will be required for this project. Payment shall be per lineal foot.
- 5.5 5020-C HYDRANT ASSEMBLY (EA).** The relocated fire hydrant will be paid with this bid item. No more than one hydrant extension is allowed per hydrant. Reconnect tracer wire and pedestal that bolts to the hydrant.
- 5.6 5020-A PRESSURE REDUCING VALVE, REMOVAL (EA).** Unit price includes, but is not limited to, all components attached to the valve or required for its complete removal, including, underground or above ground operator, square valve operating nut, valve box and cover, valve box extension, valve stem extension and manhole. This bid item includes all the pipe and accessories necessary to reconnect the existing water main.
- 5.7 5020-A PRESSURE REDUCING VALVE, INSTALLATION (EA).** Unit price includes, but is not limited to, all components attached to the valve or required for its complete installation and operation as per the manufacturer installation and start up instructions. See sheet B.03 and B.04 for additional details. This bid item includes all the pipe and accessories necessary to connect to existing water main. The City will purchase the PRV package and have it stored at a City facility. The contractor will be responsible for transport and delivery to the construction site. Contractor will set structure shown on sheet B.03 and B.04.
- 5.8 5020-J REMOVE HYDRANT ASSEMBLY (EA).** This item shall include removing existing fire hydrant, hydrant valve and box. Concrete pipe plug shall be considered incidental to this item. Payment shall be per each hydrant assembly removed.

- 5.9 5020-H VALVE BOX REPLACEMENT (EA).** This bid item shall include all equipment, labor and materials to replace existing water valves. **Valve box lids shall be protected from concrete during concrete placement or asphalt during asphalt placement. Each water valve box lid shall be opened and the riser box cleaned to the valve by the contractor prior to final walk-through. Final acceptance will not be granted until all valve boxes have been opened and verified by the Engineer.** Payment shall be per each.
- 6.1 6010-A-2 STORM MANHOLE, SW-401, 48" DIAMETER (EA).** This bid item shall be in accordance with Section 6010 of the SUDAS Standard Specifications. Tying existing pipe and/or services into new manhole shall be considered incidental. **Manhole Boxouts shall have a concrete depth of 12 inches and be 6 feet by 6 feet.** The item shall include the installation of a Type E, two-piece frame and lid per SUDAS Standard Detail SW-602, and adjustment to final grade. Payment shall be per each.
- 6.2,6.3,6.4 6010-B-1 STORM INTAKE, SW-501, SW-505, SW-506 (EA).** This item shall be in accordance with Section 6010 of the SUDAS Standard Specifications. Tying existing pipe and/or services into new intake shall be considered incidental. Payment shall be per each.
- 6.5,6.6 6010-B-1 FRENCH DRAIN STORM INTAKE,(MODIFIED SW-501, SW-505, (EA).** This item shall be in accordance with Section 6010 of the SUDAS Standard Specifications. See sheet B.02 for intake details. Rock backfill and engineering fabric is considered incidental to this bid item. Payment shall be per each
- 6.8 6010-F ADJUST MANHOLE, MAJOR (EA).** This bid item shall be in accordance with Section 6010 of the SUDAS Standard Specifications and shall include all equipment, labor and materials to adjust manhole to final grade. This item includes removing cone section, installing additional barrel section (as per plan sheets), and reinstalling cone section. **Contractor shall verify manhole diameter and height of additional barrel sections prior to ordering materials.** Prior to removal of the existing casting, a temporary debris shield shall be placed. This shield shall remain in place until manhole has been adjusted to final grade and concrete poured. **Manhole Boxouts shall have a concrete depth of 12 inches and be 6 feet by 6 feet in within pavement.** The existing casting shall become the property of the City, unless otherwise indicated on the plans.
- This item shall include the installation of SW-601 Type A casting, pro-ring, and adjustment to final grade with a rectangular shaped concrete boxout per SUDAS 7020. Castings shall be two-piece unless otherwise called out in the plans or as determined necessary by the Engineer. **Manhole castings shall be protected from concrete during concrete placement. The manhole shall be opened and cleaned by the contractor prior to final walk-through. Final acceptance will not be granted until all manholes have been opened and verified by the Engineer.** Payment shall be per each.
- 6.9 6010-E MANHOLE ADJUSTMENT, MINOR (EA).** This bid item shall be in accordance with Section 6010 of the SUDAS Standard Specifications and shall include all equipment, labor and materials to adjust manhole to final grade. **Manhole Boxouts shall have a concrete depth of 12 inches and be 6 feet by 6 feet in within the pavement.** Grouting of existing lift holes in the manholes shall be considered incidental. Prior to removal of the existing casting, a temporary debris shield shall be placed. This shield shall remain in place until manhole has been adjusted to final grade and concrete poured. The existing casting shall become the property of the City, unless otherwise indicated on the plans. This item shall include the installation of a Type A (sanitary) or Type E (storm sewer), two-piece frame and lid, pro ring, and adjustment to final grade with a rectangular shaped concrete boxout per SUDAS 7020. **Manhole castings shall be protected from concrete during concrete placement. The manhole shall be opened and cleaned by the contractor prior to final walk-through. Final acceptance will not be granted until all manholes have been opened and verified by the Engineer.** Payment shall be per each.
- 6.10 6010-H-1 REMOVE MANHOLE (EA).** This bid item shall include all equipment, labor, materials, hauling and proper disposal of removed manhole as shown on the plans. Any pipe damaged during the removal of the structure shall be repaired and/or replaced at no cost to the City. The removed casting shall become the property of the City. The removed structure shall become the property of the Contractor to be disposed of at an off-site location. Payment shall be per each.
- 7.1 7010-A PAVEMENT, PCC, 8" DEPTH.** This bid item shall be in accordance with Section 7010 of the SUDAS Standard Specifications. Contractor shall utilize a C mix and provide Certified Plant Inspection. Any dowel bars, joint sawing, expansion material, or other appurtenances necessary to complete this work shall be considered incidental. **Sawing and sealing of BT joints is required. KT Joints shall not be used. Air Screeds shall not be used for paving.** Payment shall be per square yard. **This item excludes cold weather protection payment according to City of Ames Supplemental Specifications.**

- 7.2, 7.3 7030-A REMOVAL OF SIDEWALK & DRIVEWAY (SY).** This bid price shall include all equipment, labor, materials, sawing, hauling, and proper disposal of removed sidewalks, pedestrian ramps, and driveways, as shown on the plans. Any damage beyond the removal limits shall be removed and replaced at the Contractor's expense. Payment shall be per square yard.
- 7.4 7030-E SIDEWALK, PCC, 6" DEPTH (SY).** This bid item shall be in accordance with section 7030 of the SUDAS Standard Specifications and shall include all equipment, material and labor to place 6" sidewalk for pedestrian ramps, common landing squares and sidewalk through driveways, or as noted on the plans. Thickened edges, joints and steel in pedestrian ramps where they meet the pavement edge shall be considered incidental. Buildings, hydrants, light poles, sign posts and other fixtures/features shall be protected from concrete during concrete placement. Minor water valve, gas valve, and cleanout adjustments shall also be considered incidental, unless otherwise accounted for in a separate bid item. No payment will be made until ADA and plan compliance is verified by the Engineer. Payment shall be per square yard. **This item excludes cold weather protection payment according City of Ames Supplemental Specifications**
- 7.5 7030-G DETECTABLE WARNING (SF).** This bid item shall be in accordance with section 7030 of the SUDAS Standard Specifications and shall include all material, equipment and labor to cast in place according to pedestrian ramp sidewalk details in the most current SUDAS Standard Specifications. **Detectable warning panels shall be one of the following natural finished CAST IRON products: Duralast Detectable Warning Surface or Detectable Warning Plate.** No payment will be made until ADA and plan compliance is verified by the Engineer. Payment shall be per square foot.
- 7.6 7030-H-1 DRIVEWAY, PCC, 8" DEPTH (SY).** This bid item shall be in accordance with section 7030 of the SUDAS Standard Specifications unless otherwise indicated in the plans and specifications, and shall include all equipment, material, and labor to place driveways as noted on plans or directed by the Engineer. The Contractor shall make every effort to reuse existing aggregate base material where present. A C-mix shall be used for the placement of the Type "A" Flared Wing driveway per the current SUDAS Figure 7030.101. Driveways shall be opened to traffic within 48 hours after placement. Payment shall be per square yard. **This item excludes cold weather protection payment according to City of Ames Supplemental Specifications.**
- 7.8 7040-H PAVEMENT REMOVAL (SY).** This item includes all removal and disposal of all pavement material, as per plan. Saw cutting shall be considered incidental to this item. Any pavement broken or damaged beyond the removal limits shall be saw cut and removed to a new line and replaced by the Contractor at no additional cost to the City. The Contractor shall dispose of all removed materials at an off-site disposal area. Payment shall be per square yard.
- 8.1 8030-A TEMPORARY TRAFFIC CONTROL (LS).** The Contractor shall submit a traffic control plan to the Engineer for approval prior to beginning construction. The Contractor shall furnish and maintain all traffic control devices required for the duration of construction at each project location. Traffic control shall meet the General Traffic Control Notes in the contract documents and comply with the current edition of both the Manual on Uniform Traffic Control Devices (MUTCD) and the City of Ames "Traffic Control for Construction and Maintenance Work Within the City's Right-of-Way". All traffic control devices shall be properly located, maintained, and kept clean and legible by the Contractor to provide for safe pedestrian and traffic flow at all times. The Contractor shall have specific persons designated to monitor traffic control devices and correct problems. The Contractor shall furnish the City with names and phone numbers of these persons plus a phone number for after hours problems. Partial payments will be made based upon the amount of work completed as a percentage of the original contract lump sum.
- 8.2 TRAFFIC SIGNALIZATION (LS).** Refer to the M sheets for locations and sheet N.01 for details. Measurement for this item will be lump sum. This item will be paid for at the contract lump sum price bid, which price shall be full compensation for furnishing all materials, and all other work necessary or incidental to the construction of the traffic conduit system.
- 11.1 11010-A CONSTRUCTION SURVEY AND STAKING (LS).** This bid item shall be in accordance with Section 2526 of the IDOT Standard Specifications. It shall include all detailed survey and staking necessary for completion of the attached plans and specifications, with the exception of items described in **Item 11.3** noted below. This item includes, but is not limited to staking and re-staking of easements, ROW, utility improvements, grading and paving. The Contractor is responsible for maintaining control points and benchmarks during construction and shall employ the services of a professional licensed land surveyor registered in the State of Iowa for this bid item. Any interpolation or additional calculations necessary shall be considered incidental. GeoPAK data will **not** be

provided for this project. Partial payments will be made based upon the amount of work completed as a percentage of the original contract lump sum.

- 11.3 11999-A PEDESTRIAN FACILITY CONSTRUCTION SURVEY AND STAKING (LS).** This bid item is to furnish all survey and staking necessary for construction and verification of new pedestrian facilities. Pedestrian facilities include sidewalk, shared use paths, pedestrian ramps and crosswalks. This bid item shall also include as-built drawings with the measured slope reported in the As-Built Slope column of the Sidewalk Compliance Spreadsheet located within the plan set. Extra slope precision effort is required; however a licensed land surveyor is not required for this bid item. All new pedestrian facilities shall be compliant with current Americans with Disabilities Act (ADA) Regulations, SUDAS Specifications, City of Ames Supplemental Specifications, and the attached plans and specifications. Any pedestrian facilities determined, after construction, to be outside the ADA tolerances provided within the project plans and specifications shall be removed and replaced at the Contractors' expense. Further description of the compliance and acceptance process is included in the General Notes for Construction. Final acceptance of the project will not be granted until all Pedestrian Facility as-builts are submitted, reviewed and verified by the Engineer.
- 11.4 11010-B MONUMENT PRESERVATION OR REPLACEMENT (LS).** This bid item shall be in accordance with Section 11010 of the SUDAS Standard Specifications. Contractor is responsible for locating, protecting, and tying down all monuments, including but not limited to property pins and section corners, and shall employ the services of a professional licensed land surveyor registered in the State of Iowa for this bid item. Any monuments damaged or removed during construction shall be replaced at no additional cost to the City of Ames, incidental to this item. Payment shall be per lump sum.
- 11.5 11020-A MOBILIZATION (LS).** This bid item shall be defined by SUDAS Section 1010. It shall include, but not be limited to mobilization of personnel, equipment and supplies for all items under the contract. Partial payments will be made as per SUDAS Section 1090.
- 11.6 11060-A CONCRETE WASHOUT, PORTABLE (LS).** This item is for the Contractor to furnish, maintain, and remove a portable concrete washout bin during concrete pavement operations. If a proper washout is not documented, payment of this item may be withheld or made partial payment. Payment shall be per each.

**NOTE:** All bid items shall include all labor, material, and equipment necessary to complete the operation in accordance with the Plans, Contract Documents, Iowa Statewide Urban Design and Specifications (SUDAS), and the City of Ames Supplemental Specifications to SUDAS unless otherwise noted.

End of Section