

PLANS FOR CONSTRUCTION OF
WATER MAIN LOOPING
3rd STREET WEST COURT
CITY OF WORTHINGTON, IOWA
APRIL 2020

MUNICIPAL OFFICIALS

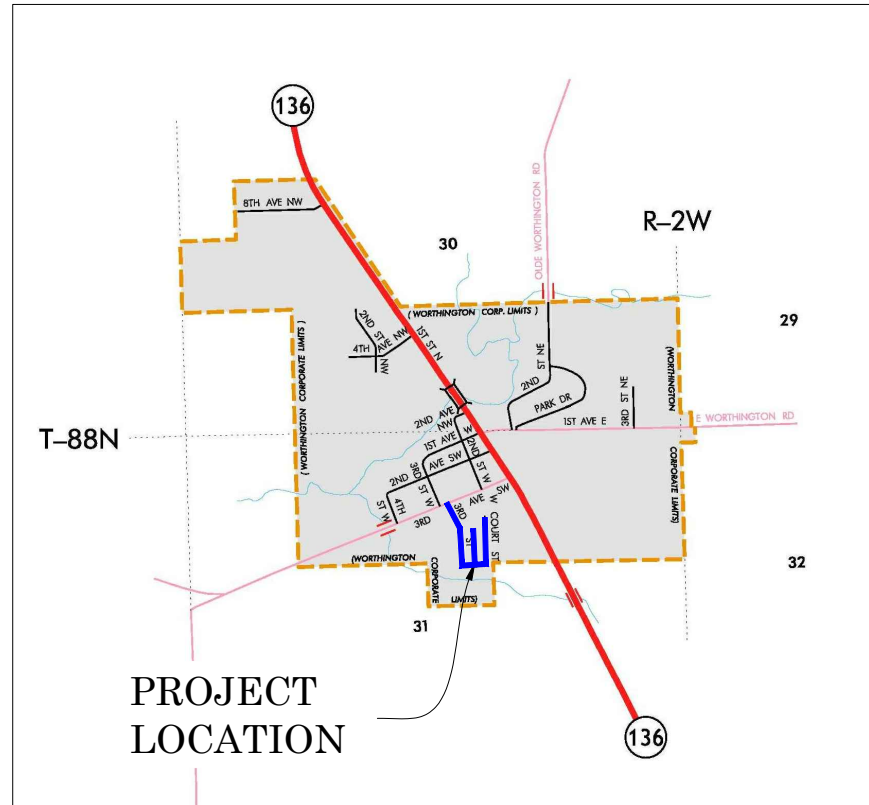
MAYOR
GARY LANGEL

COUNCIL
STEVE ENGLER
RON LEUCHS
TONY LUECK
MARTY MARUGG
CHRIS SMOCK

CITY CLERK
LAUREN MANTERNACH

PUBLIC WORKS
TODD HOSCH

WATER/WASTEWATER OPERATOR
MIKE LANSING



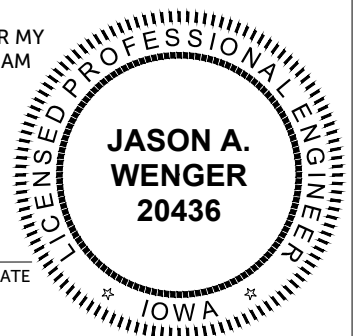
LOCATION MAP

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B.01	TYPICAL SECTIONS
C.01	ESTIMATED QUANTITIES & ITEM DESCRIPTIONS
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U.01	SPECIAL PROVISIONS

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE IOWA
STATEWIDE URBAN STANDARD SPECIFICATION, 2020 EDITION AND THE PROJECT
SPECIAL PROVISIONS. SUDAS SPECIFICATIONS CAN BE FOUND AT
WWW.IOWASUDAS.ORG

CONTRACTOR WILL BE PROVIDED A SALES TAX EXEMPTION CERTIFICATION TO PURCHASE, OR WITHDRAW FROM INVENTORY, MATERIALS FURNISHED UNDER THIS CONTRACT.

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



Jason A. Wenger, P.E. IOWA REG. NO. 20436 DATE _____
My License Renewal Date is December 31, 2020
PAGES OR SHEETS COVERED BY THIS SEAL: _____

PROPOSED UTILITIES & LINES

PROPOSED CENTERLINE	
PROPOSED CONTOUR	
PROPOSED INDEX CONTOUR	
PROPOSED CURB LINE	
PROPOSED STORM LINE	
PROPOSED WATER MAIN	
PROPOSED SANITARY MAIN	
PROPOSED WATER SERVICE LINE	
PROPOSED SEWER SERVICE LINE	
PROPOSED SUBDRAIN	
PROPOSED UNDERGROUND ELECTRICAL	
PROPOSED P.C. PAVEMENT	
PROPOSED STORM INTAKE	
PROPOSED APRON	
PROPOSED SANITARY MANHOLE	
PROPOSED STORM MANHOLE	
PROPOSED FIRE HYDRANT	
PROPOSED VALVE BOX	
PROPOSED CURB BOX	
PROPOSED POWER POLE	
PROPOSED SIGN	
SOIL BORING LOCATION	
PROPOSED TILE LINE	

PROPOSED EROSION & SEDIMENT CONTROL

PROPOSED SILT FENCING	
PROPOSED EROSION MAT	
PROPOSED RIP RAP/EROSION STONE	
PROPOSED DIVERSION DIKE	
PROPOSED SEDIMENT TRAP	

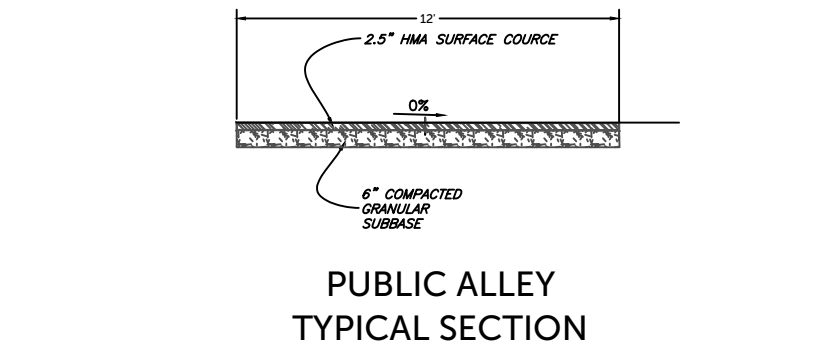
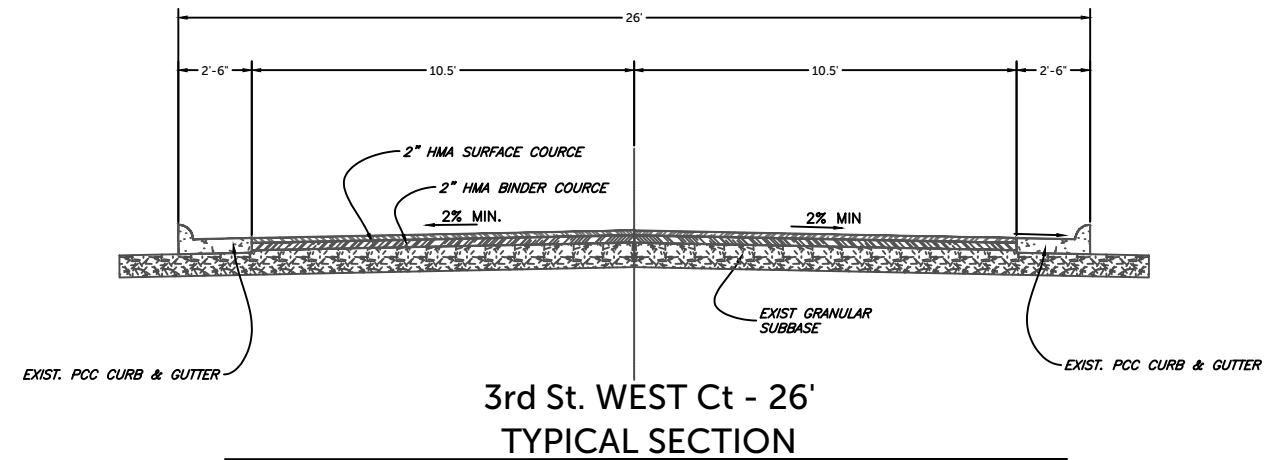
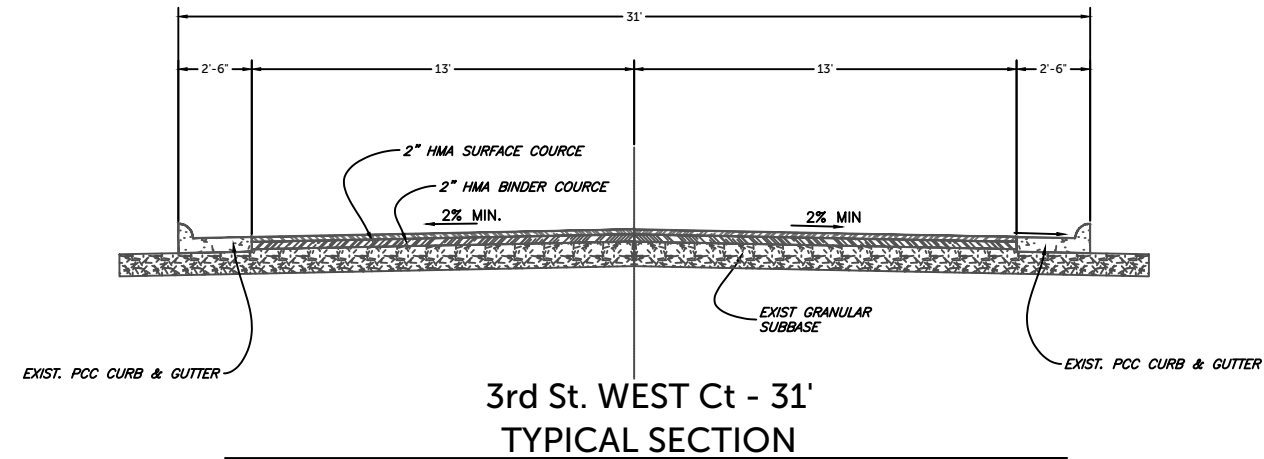
EXISTING LINES & UTILITIES

TOP BANK LINE	
DITCH LINE	
EXISTING FARM LANE LINE	
EXISTING CONTOUR LINE	
EXISTING INDEX CONTOUR LINE	
EDGE OF PAVEMENT LINE	
OVERHEAD ELECTRIC LINE	
EXSITING UNDERGROUND ELEC. LINE	
EXISTING STORM LINE	
EXISTING TELEPHONE LINE	
EXISTING TILE LINE	
EXISTING WATER MAIN LINE	
EXSTING SEWER LINE	
EXISTING SEWER SERVICE	
EXISTING SIDEWALK	
EXISTING ASPHALT SURFACE	
EXISTING CONCRETE SURFACE	
EXISTING GRANULAR SURFACE	
EXISTING RIP RAP/BOULDERS	
EXISTING BUILDING	
EXISTING UTILITY POLE & GUY WIRE	
EXISTING TREE	
EXISTING RETAINING WALL/FOUNDATION	
EXISTING MANHOLE	
EXISTING PIPE APRON	
EXISTING INTAKE	
EXISTING FIRE HYDRANT	
EXISTING VALVE BOX	
EXISTING ELECTRICAL OUTLET	
EXISTING MOUNTED LIGHT EXISTING	
MOUNTED GAS METER	
EXISTING WATER METER	
TILE/DOWN SPOUT	

SURVEYING LINES

LOT LINE	
EASEMENT LINE	
SECTION LINE	
QUARTER LINE	
QUARTER-QUARTER LINE	
SUBDIVISION BOUNDARY	
CENTER LINE	
FENCE LINE	
FOUND MONUMENT	
SET MONUMENT	
FOUND P.K. NAIL	
CORNER POST	
SET MAG NAIL	
CALCULATED POSISITON	
ORANGE PLASTIC CAP	OPC
RED PLASTIC CAP	RPC
YELLOW PLASTIC CAP	YPC
ALUMINUM CAP	AC

NOTES:



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DRAWN BY: JAW APPROVED BY: JAW
 DATE: 3/15/2020 PROJECT NO: 19-053

PROJECT
**WATER MAIN LOOPING
 3RD STREET WEST COURT
 WORTHINGTON, IOWA**

SHEET NAME
TYPICAL SECTIONS


SHEET NO.
B.01

OF
11

TABLE 1 - ESTIMATED PROJECT QUANTITIES						TABLE 2 - ITEM DESCRIPTIONS		
ITEM NO.	DESCRIPTION	DIVISION 1	DIVISION 2	TOTAL QUANTITY	UNITS	ITEM NO.	ITEM	DESCRIPTION
1	Bituminous Pavement Removal	1200	3780	4980	S.Y.	1	Bituminous Pavement Removal	Includes removal and disposal or recycle by Contractor at site approved for such. Removal methods are up to the Contractor discretion (milling or chunking)
2	PCC Curb & Gutter Removal	350	0	350	L.F.	2	PCC Curb & Gutter Removal	Includes sawcut, removal and disposal by Contractor at site approved for such.
3	PCC Driveway Removal	48.5	0	48.5	S.Y.	3	PCC Driveway Removal	Includes sawcut, removal and disposal by Contractor at site approved for such. Limits of removal to be marked by City.
4	PCC Sidewalk Removal	2.2	0	2.2	S.Y.	4	PCC Sidewalk Removal	Includes sawcut, removal and disposal by Contractor at site approved for such. Limits of removal to be marked by City.
5	Granular Subbase (Special Backfill)	550	50	600	Ton	5	Granular Subbase (Special Backfill)	Includes granular subbase under pavement, driveway and sidewalk areas. Also includes temporary surfacing necessary to provide access to residents during construction. Minimum thickness 6" under driveways, 4" under sidewalks, 6" under disturbed curbs, pavement and alley subgrade as a result of water main installation
6	PCC Curb Replacement	350	0	350	L.F.	6	PCC Curb Replacement	Nominal 2.5 wide curb & gutter to match existing. IDOT C-3 or C-4 concrete mix required.
7	PCC Driveway, 6"	48.5	0	48.5	S.Y.	7	PCC Driveway, 6"	IDOT C-3 or C-4 mix required. Install expansion at back of curb. Tie bars required at connection to existing driveway.
8	PCC Apron, 8"	0	29.0	29.0	S.Y.	8	PCC Apron, 8"	IDOT C-3 or C-4 mix required. Install expansion at back of curb.
9	Bituminous Surface Course (2.0")	140	450	590	Ton	10	Bituminous Intermediate Course (2.0")	Subgrade preparation incidental. Stone required to establish cross slopes to be paid uner item 5, granular subbase.
10	Bituminous Intermediate Course (2.0")	140	450	590	Ton	11	HMA Alley Paving (2.5")	Subgrade preparation incidental. Single lift permitted.
11	HMA Alley Paving (2.5")	100	0	100	Ton	12	4" PCC Sidewalk	IDOT C-3 or C-4 mix required.
12	4" PCC Sidewalk	2.2	0	2.2	S.Y.	13	Granular Backfill	Natural Sand or fill lime used for backfill where unsuitable excavated material is identified in areas, if any, as determined by Jurisdictional Engineer. Granular backfill to only be utilized to the proposed subgrade elevation for new pavement section.
13	Granular Backfill	300	0	300	Ton	15	Connect to Existing Main	Includes shutting down main and connecting to existing tees. Contractor to coordinate main shutdown with City of Worthington a minimum of 48 hours in advance.
14	6" PVC DR-18 (C900) Water Main	895	0	895	L.F.	17	6" Valve & Box	USA Made Required
15	Connect to Existing Main	2	0	2	Each	18	6"x6" Tee	USA Made Required
16	Fire Hydrant Assemby	1	0	1	Each	19	6"-45 deg bend	USA Made Required
17	6" Valve & Box	3	0	3	Each	20	6" Plug	USA Made Required
18	6"x6" Tee	2	0	2	Each	21	Corporation Stop	Stainless steel saddle required. Corp and saddle to be USA Made.
19	6"-45 deg bend	2	0	2	Each	22	Curb Stop & Box	USA Made required. All curb stops to be placed minimum of 2' outside of proposed alley or curb. Fittings required to connect existing service lines to the proposed curb stop are incidental.
20	6" Plug	1	0	1	Each	23	3/4" Type 'K' Copper Water Service	Install new service from proposed 6" main to each curb box. If existing service lines are copper they can be reused if they are shortened to tie-in to new main. Under no circumstances shall existing services be extended by splicing. All non-copper services to be replaced from main to curb stop.
21	Corporation Stop	16	0	16	Each	25	Seeding & Mulching	Reseed all areas disturbed by construction activities according to SUDAS requirements.
22	Curb Stop & Box	16	0	16	Each	26	Traffic Control	Includes temporary traffic control signage and fencing as required by contractor to protect project site and workers during construction.
23	3/4" Type 'K' Copper Water Service	260	0	260	L.F.			
24	Topsoil Import	30	0	30	C.Y.			
25	Seeding & Mulching	1	0	1	L.S.			
26	Traffic Control	1	0	1	L.S.			
27	Mobilization	1	0	1	L.S.			

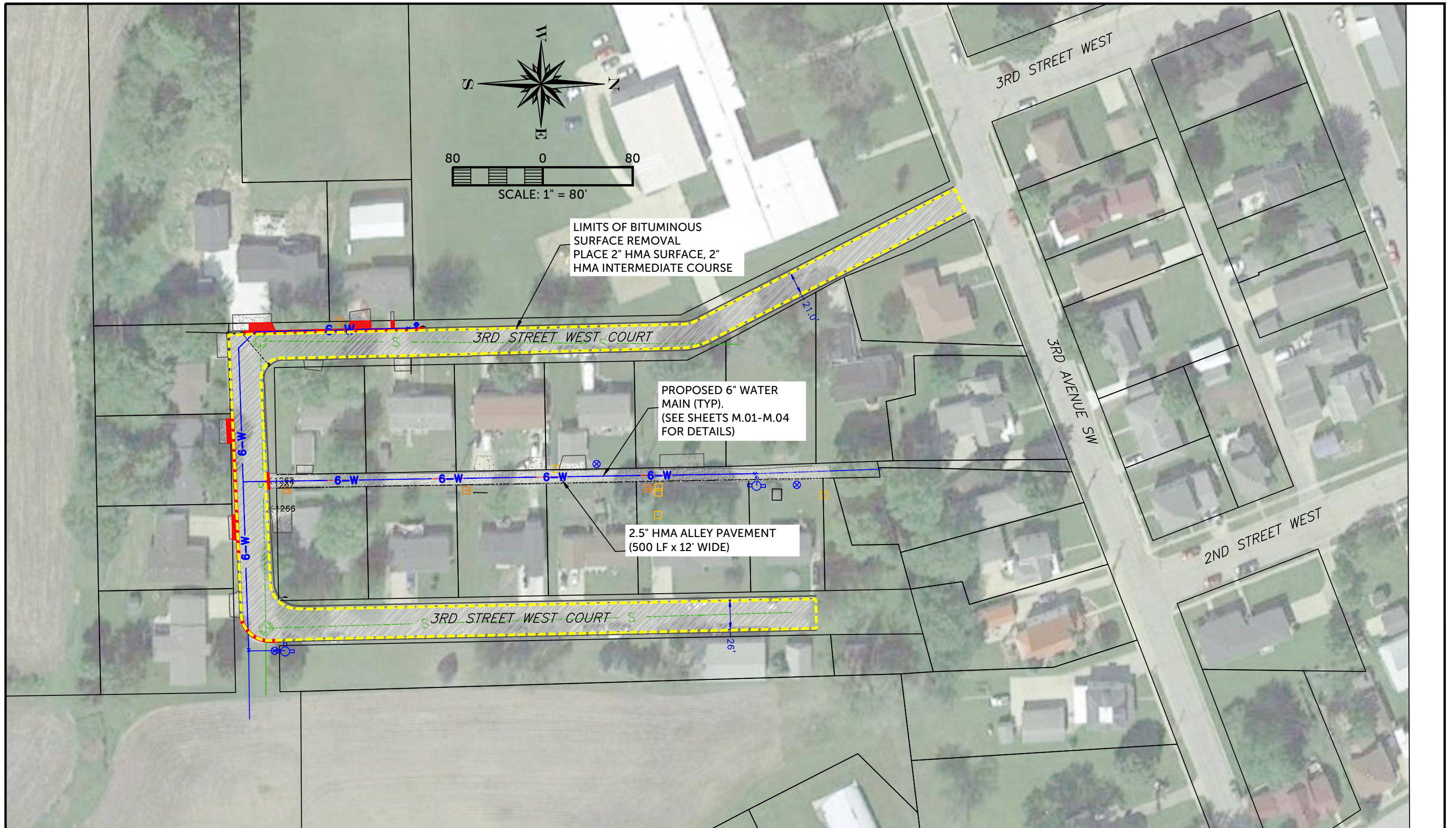
DIVISION 1 - SRF ELIGIBLE

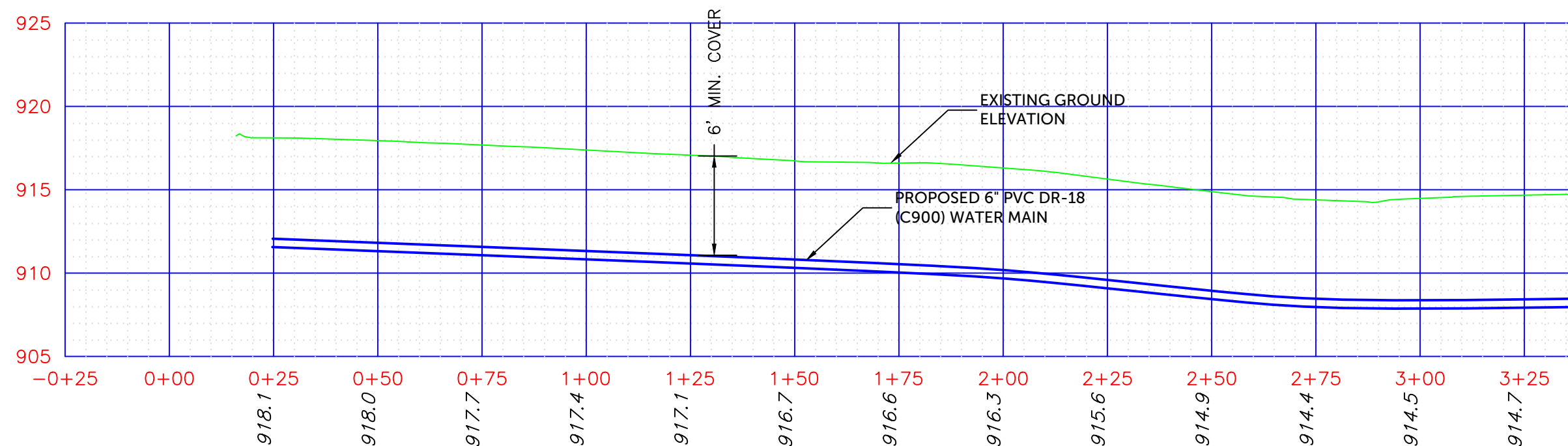
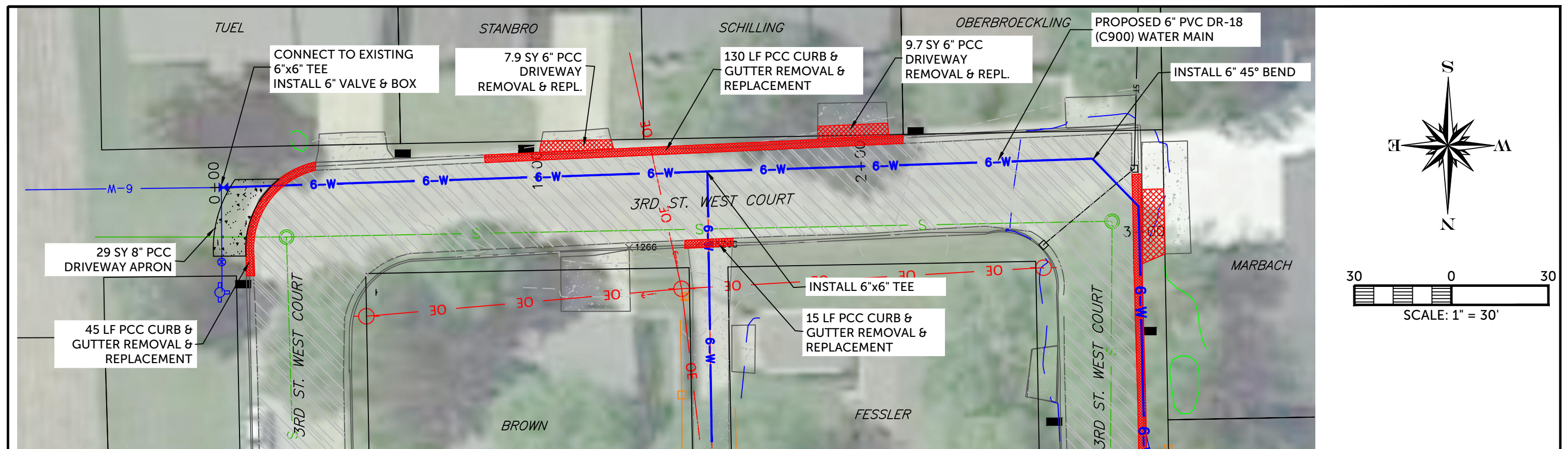
DIVISION 2 - CITY ROAD USE

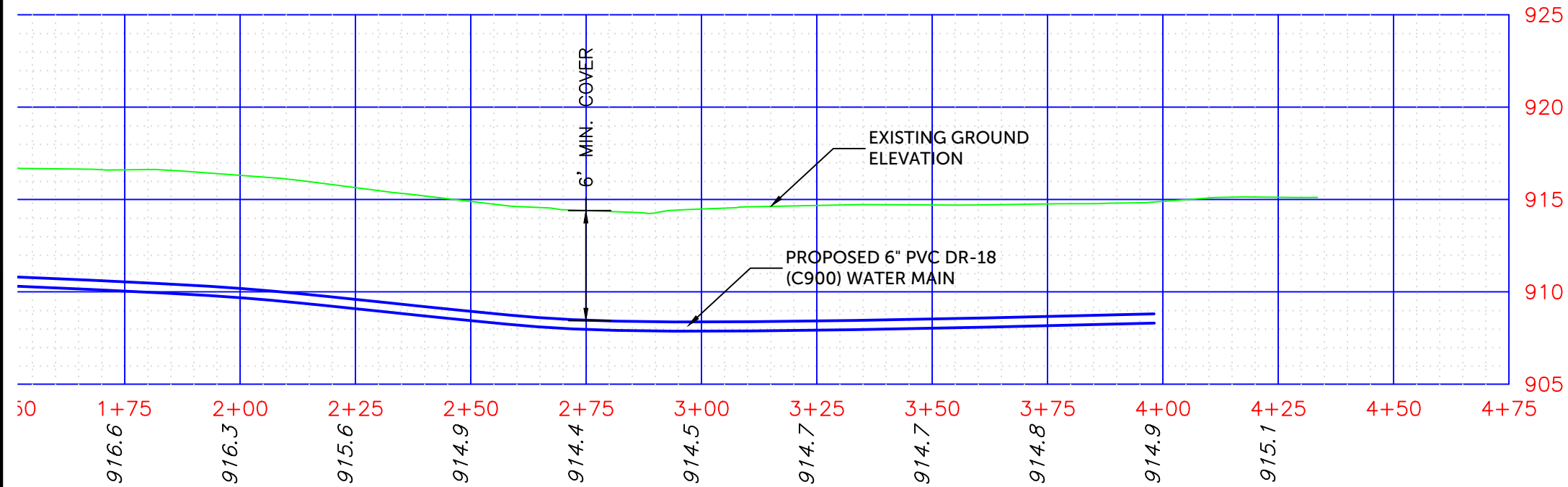
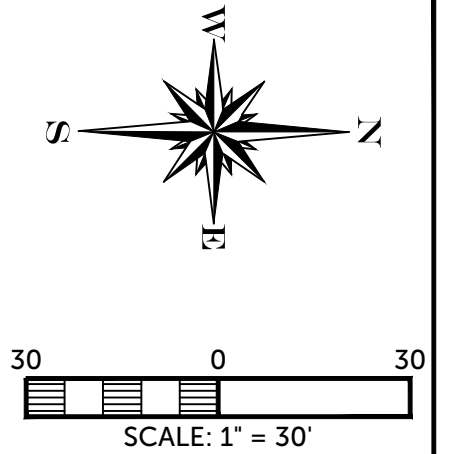
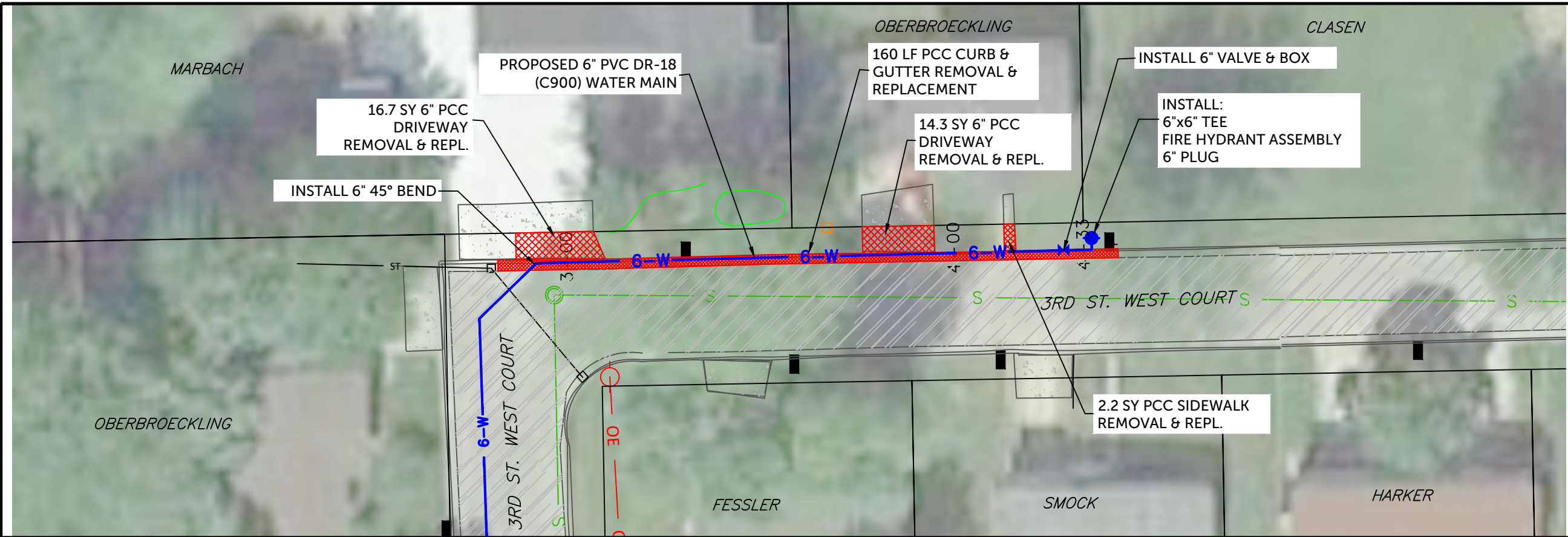
 <div>BURRINGTON GROUP, INC. Civil Engineering Land Surveying 105 W. Main Street Manchester, Iowa 52057 Phone 563-927-2434 burringtongroup.com</div>	DRAWN BY: JAW	APPROVED BY: JAW	PROJECT WATER MAIN LOOPING 3RD STREET WEST COURT WORTHINGTON, IOWA	SHEET NAME ESTIMATED QUANTITIES & ITEM DESCRIPTIONS	SHEET NO. C.01	OF 11
	DATE: 3/20/2020	PROJECT NO: 19-053				

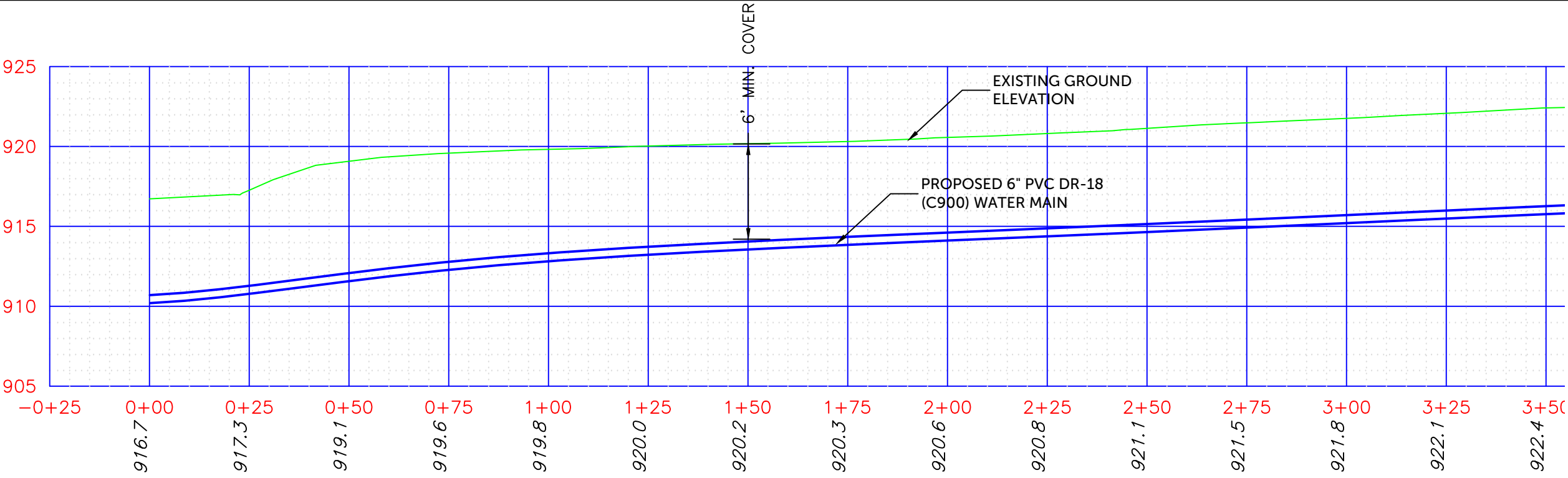
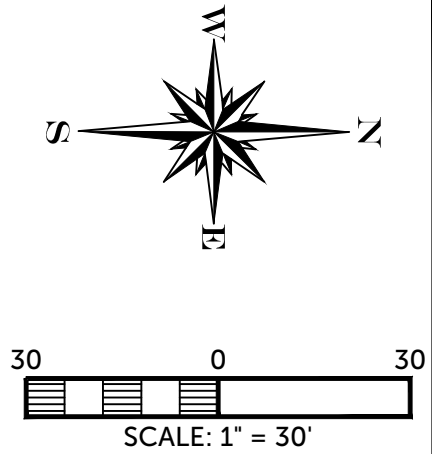
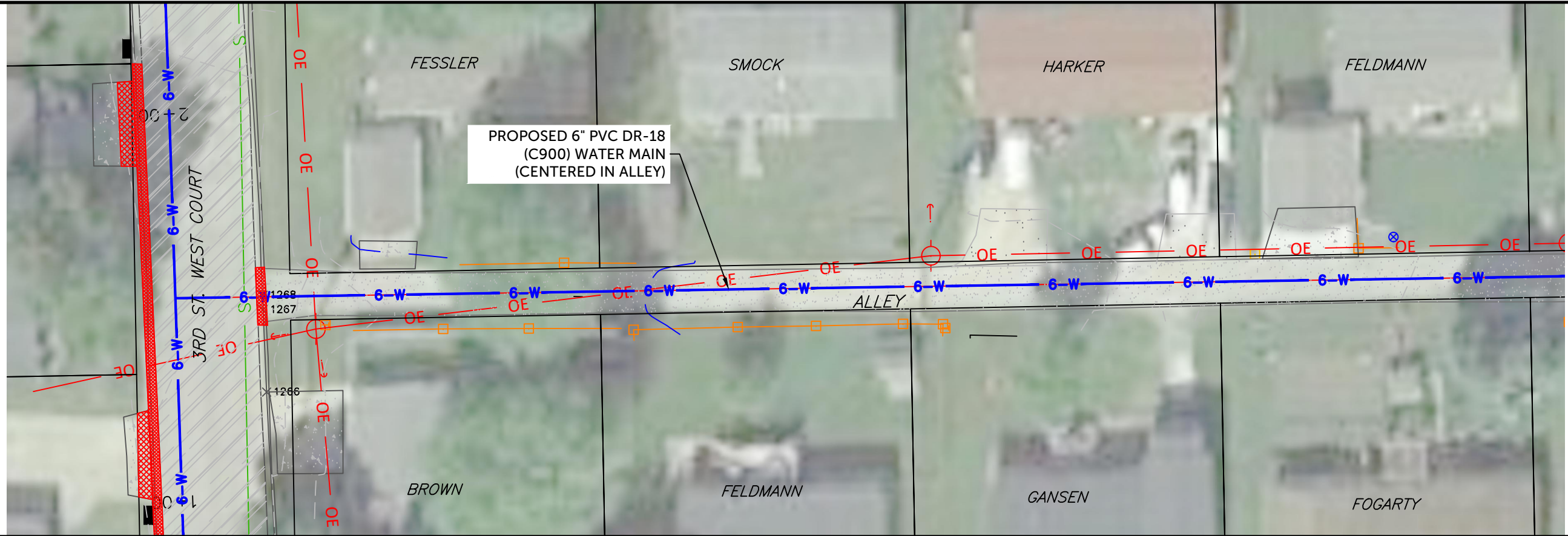
DWG:


TABLE OF FIGURES			
THE FOLLOWING STANDARD PLANS SHALL BE CONSIDERED APPLICABLE TO THE CONSTRUCTION WORK ON THIS PROJECT			
IOWA SUDAS			
FIGURE		TITLE	DATE
2010.101		DETAILS OF EMBANKMENT AND REBUILDING EMBANKMENTS	10/21/2014
2010.102		DESIGNATION OF ROADWAY EARTHWORK ITEMS	10/21/2014
3010.101	SW-101	TRENCH BEDDING AND BACKFILL ZONES	4/17/2018
3010.102	SW-102	RIGID GRAVITY PIPE TRENCH BEDDING	4/16/2019
3010.103	SW-103	FLEXIBLE GRAVITY PIPE TRENCH BEDDING	4/16/2019
3010.104	SW-104	PRESSURE PIPE TRENCH BEDDING	4/17/2018
3010.105	SW-105	MISCELLANEOUS PIPE BEDDING	4/17/2018
4010.201	SW-201	SANITARY SERVICE STUB	4/17/2018
5010.101	WM-101	THRUST BLOCKS	10/18/2016
5010.102	WM-102	TRACER SYSTEM	10/18/2016
5010.901		MINIMUM CLEARANCE BETWEEN WATER SERVICE AND STRUCTURE	10/21/2014
5010.201	WM-201	FIRE HYDRANT ASSEMBLY	4/18/2017
7010.101	PV-101	JOINTS	4/16/2019
7010.102	PV-102	PCC CURB DETAILS	10/18/2016
7010.103	PV-103	MANHOLE BOXOUTS IN PCC PAVEMENTS	4/19/2011
7010.901		PCC PAVEMENT JOINTING	10/16/2012
7010.904		TYPICAL JOINTING LAYOUT	10/19/2010
7020.201	PV-201	MANHOLE BOXOUTS IN HMA PAVEMENT AND HMA OVERLAYS	4/19/2011
7020.901		HMA PAVEMENT	10/19/2010
7030.101		CONCRETE DRIVEWAY, TYPE A	10/20/2015
7030.103		DRIVEWAY GRADING	10/20/2015
8030.101		TEMPORARY TRAFFIC CONTROL GENERAL INFORMATION	10/17/2017
8020.102		WORK OFF OF PAVEMENT WITH MINOR ENCROACHMENT ONTO TRAVELED WAY	10/17/2017
8030.104		LANE CLOSURE ON LOW VOLUME STREET (SELF-REGULATING)	10/17/2017
8030.116		STREET OR ROAD CLOSURE	10/17/2017

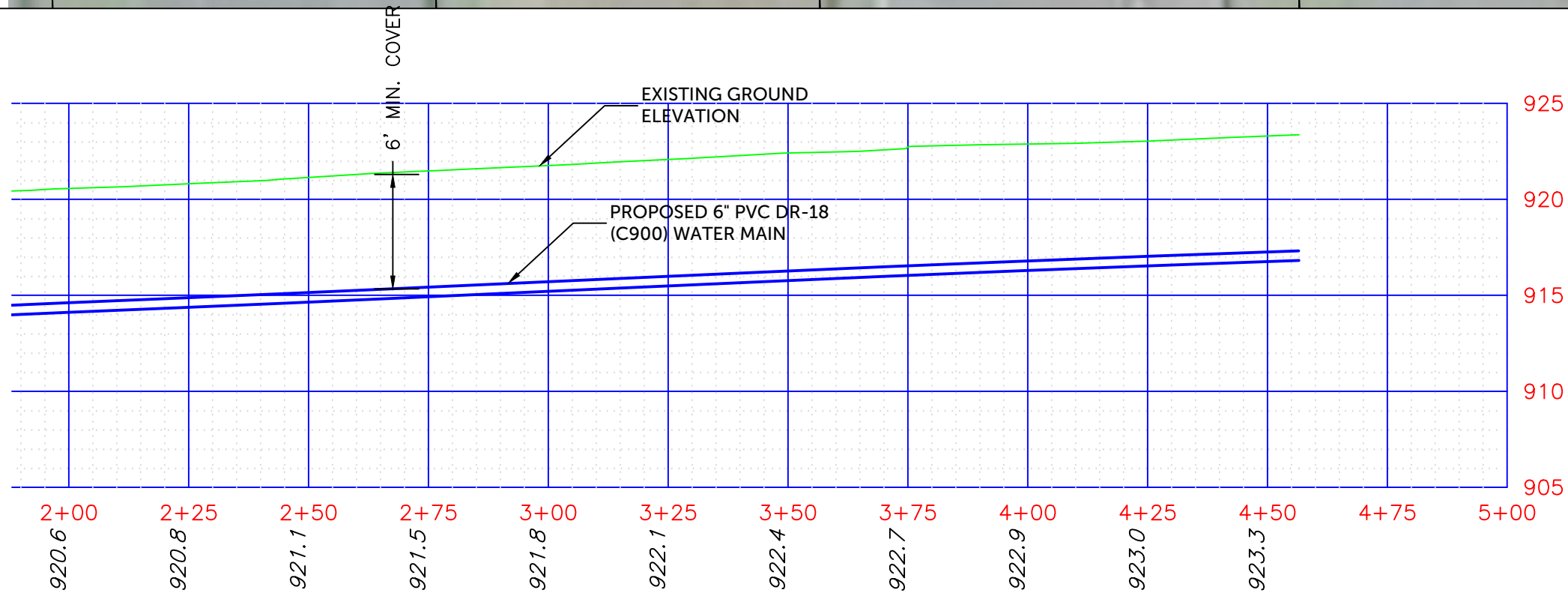
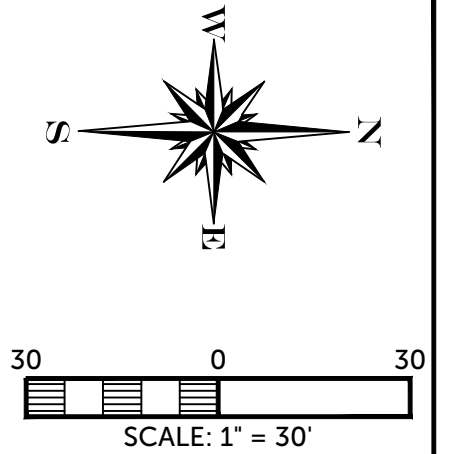
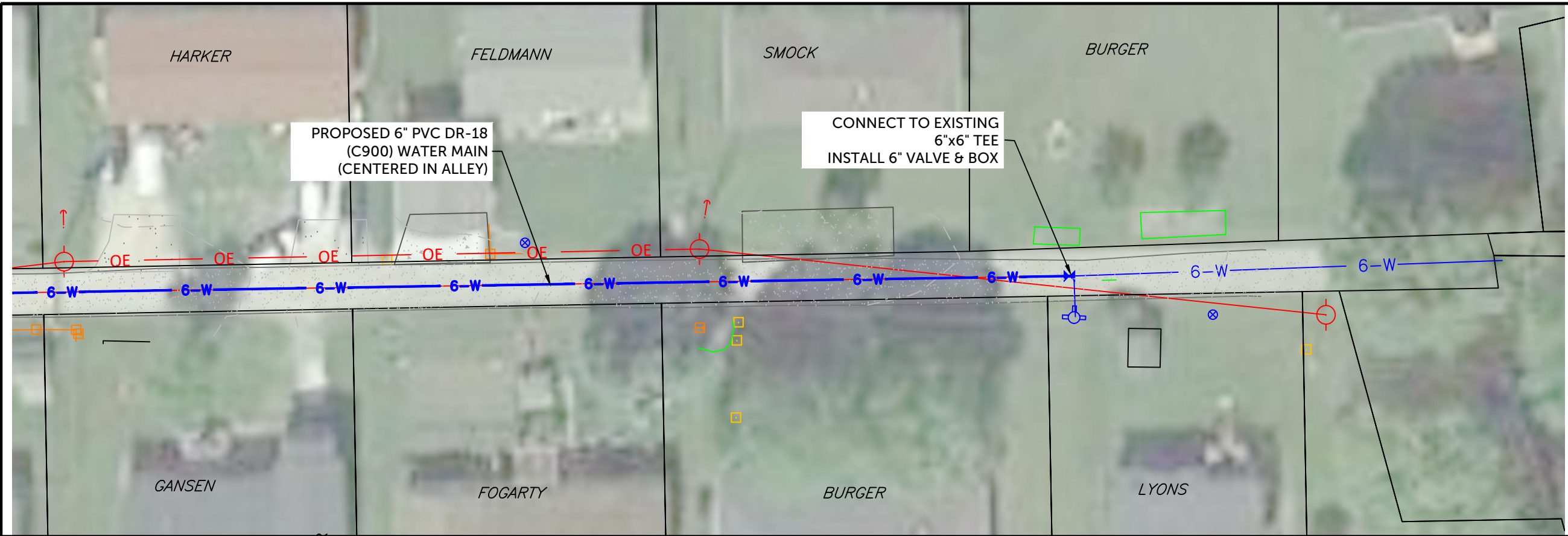








 BURRINGTON GROUP, INC. Civil Engineering Land Surveying 105 W. Main Street Manchester, Iowa 52057 Phone 563-927-2434 burringtongroup.com	DRAWN BY: DDM APPROVED BY: JAW		PROJECT WATER MAIN LOOPING 3RD STREET WEST COURT WORTHINGTON, IOWA	SHEET NAME WATER MAIN PLAN PUBLIC ALLEY STA 0+00 TO 2+25	SHEET NO. M.03	OF 11
	DATE: 3/15/2020 PROJECT NO: 19-053					



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PROJECT
**WATER MAIN LOOPING
3RD STREET WEST COURT
WORTHINGTON, IOWA**

SHEET NAME
**WATER MAIN PLAN
PUBLIC ALLEY
STA 2+00 TO 4+75**

SHEET NO.	OF
M.04	11

The "Iowa Statewide Urban Standard Specifications for Public Improvements, 2020 Edition", shall be modified by the following Special Conditions.

DIVISION 1-GENERAL PROVISIONS AND COVENANTS

SECTION 1010

1.03 - DEFINITIONS AND TERMS

35. The Jurisdiction is the City of Worthington. Any reference to either shall be considered one in the same.

SECTION 1020

1.08 - TAXES

C. Alternate Sales and Use Tax exemption certificate will be used by the Jurisdiction for this project. All Contractors and approved Subcontractors will be provided a Sales Tax Exemption Certification to purchase, or withdraw from inventory, materials furnished under this contract. No allowance will be made over the contract sum for any tax claims.

SECTION 1040

1.06 - INCREASE OR DECREASE OF WORK

B. Quantity change, regardless of the percentage increase or decrease of the total bid shall not affect the unit bid price of that item.

SECTION 1050

1.10 - PROTECTION OF LINES AND GRADES

The Jurisdiction will provide staking locating new manholes, pipe ends, tees, intakes, and changes in grade, rough grade stakes at 50 to 100 feet for roadway and site grading, along with cut stakes along 25 feet intervals for finish grading and paving. All other construction staking shall be provided for by the Contractor as incidental to bid items.

SECTION 1070

1.01 MUNICIPAL REGULATIONS, STATE, AND FEDERAL LAWS AND REGULATIONS

C. The successful contractor shall comply with the substance abuse requirements of the Jurisdiction.

2.06 - TRAFFIC CONTROL

A. 3. Traffic Control shall be paid for by lump sum and shall include any and all traffic control used on the Project, including flaggers, pilot cars, signs, barricades, safety closures, etc., if necessary. The Contractor shall take full responsibility for Traffic Control and hold both the Jurisdiction and the Jurisdictional Engineer harmless.

2.13 - BORROW AND WASTE SITES

A. Contractor shall secure and operate, at its own expense, sites for disposal of concrete, asphalt, excess excavation, pipe removed, structures, rubbish and Debris.

3.02 INSURANCE REQUIREMENTS

C.2. Commercial General Liability

k. Additional Insured Endorsements Include the Jurisdictions Consulting Engineer as an additionally insured.

SECTION 1080

1.02 - CONTRACT TIME

A. Contractor shall fully complete the project in 45 calendar days with substantial completion no later than November 30, 2020.

DIVISION 2 - EARTHWORK

SECTION 2010

1.03 - SUBMITTALS

D. The Jurisdictional Engineer hereby requests that all materials to be incorporated into the work have certifications furnished which show that the materials comply with Specifications prior to any construction.

1.08 - MEASUREMENT FOR PAYMENT

A. Clearing and Grubbing shall be lump sum.

D. & E. Class 10 excavation and topsoil shall be paid for based on the Plan quantities without final field measurement.

I. Granular Subbase: Subbase shall include furnishing and placement measured by the tons of material placed according to the plans.

M. No additional payment will be made for hauling and disposal of removed pavement, as it shall be incidental to the bid item.

N. Contractor to complete proof rolling as required in Part 3.06. No additional payment will be made for proof rolling, as it shall be incidental to the Earth Work bid item. Initial compaction testing shall be provided for by the Jurisdiction. Contractor shall pay the cost of any retesting.

2.04 - EMBANKMENT MATERIALS

D. Granular Subbase to meet requirements of Granular Subbase (IDOT 4132 Special Backfill, Gradation No. 30.)

3.01 CLEARING AND GRUBBING

Areas to be cleared and grubbed are between catch lines on all earthwork/street areas and as identified in the Plans.

3.03 - EXCAVATION

E. 5. Surface removal shall include hauling and disposal of materials.

3.12 TEMPORARY EROSION CONTROL DURING CONSTRUCTION

See plans for details.

DIVISION 3 - TRENCH AND BACKFILL

SECTION 3010

1.03 - SUBMITTALS

A. Contractor shall submit a 10-pound sample of each/any type of granular bedding material(s).

D. Contractor shall submit a 10-pound sample of each/any type of granular backfill material(s).

E. Contractor shall submit a gradation report to the Engineer for granular materials.

F. Results of Standard Proctor and In-Place Density tests to be provided by Jurisdiction.

G. Initial compaction testing will be provided by the Jurisdiction. Retesting shall be paid for by the Contractor.

2.02 CLASS I-GRANULAR BEDDING AND BACKFILL

MATERIAL, as specified shall be used in wet trench conditions and Granular Surfacing, Class B crushed stone, shall be used in dry trench conditions as determined by the Jurisdiction Representative.

3.05 - PIPE INSTALLATION

Pipe bedding shall be R-2, F-2, or P-2 associated with each pipe application. Class R-5 for RCP Arch or Arch Equivalent. Reference Figure 3010.101 through 3010.104.

Final trench backfill shall be in accordance with Section 3010, 3.05D. Material shall be minimum Class IVA compacted to 95% of maximum Standard Proctor within street right of ways. The backfill shall have moisture content suitable to attain compaction. Contractor shall be responsible for moisture adjustment to obtain required density.

DIVISION 5 - WATER MAINS AND APPURTENANCES

SECTION 5010

The Jurisdictional Engineer hereby requests that all materials to be incorporated into the work have certifications furnished which show that the materials comply with Specifications prior to any construction.

2.01 - WATER MAIN PIPE

B. Water main shall be AWWA C-900 Polyvinyl Chloride (PVC) pipe unless noted otherwise on the Plans.

2.03 FITTINGS

Shall be compact ductile iron, mechanical joint with "Mega Lug" restrained fitting. All fittings shall be 'Made in USA'.

2.04 - CONCRETE THRUST BLOCKS

D. Concrete thrust blocks shall be installed on all water main bends 22 1/2" and greater, tees, and plugged crosses.

2.05 - PIPELINE ACCESSORIES

B. Tracer System is not required except on PVC pressure pipe for water mains or force main. Tracer system accessories shall be supplied by the Contractor when required.

2.07 WATER SERVICE PIPE AND APPURTENANCES

For ¾" to 1 ½" shall be copper, ASTM B88, Type K. All couplers for service lines shall be brass.

SECTION 5020

2.01 VALVES

Gate valves shall be USA Made, resilient seat wedge valves, Kennedy or approved equal, with mechanical joints.

2.02 FIRE HYDRANTS

Hydrants shall be USA Made Kennedy conforming to City Standards for 6' depth of bury, 6.5' trench depth. Hydrants shall conform to AWWA C502 and C600.

2.03 VALVE BOXES

Valve boxes shall be Tyler or Jordan.

Curb boxes shall be Minneapolis pattern with center rod extending to top of box and comply with City standard. Boxes shall have 52" rod. Curb stop per City standard for compression fittings.

SECTION 5030

3.03 - DISINFECTION

A. AWWA C651 requires two consecutive sets of acceptable samples, taken at least 24 hours apart from new main. Contractor to schedule to obtain samples with Jurisdictional Engineer or Jurisdiction.

3.05 Pressure and Leak Test Testing shall be the responsibility of the Contractor. No additional payment will be made for this testing, as it shall be incidental to the water main in place.

DIVISION 7 - STREETS & RELATED WORK

SECTION 7010

1.02 - DESCRIPTION OF WORK

5th Avenue SW is a Collector Street. Amanda Drive is a Local Road.

Certified plant inspection by the Contractor is required on this project. Standard Iowa DOT report forms to be completed and submitted to the Jurisdictional Engineer.

1.06 SCHEDULING AND CONFLICTS

Contractor shall maintain access to residences during construction as much as reasonably possible. Temporary drive surfaces shall be provided by end of work day.

2.02 - MIXES, IOWA DOT IM 529

Minimum compressive strength shall be 4,500 psi at 28 days. Contractor may use Class M mix, but no additional payment will be made for this mix.

3.06 - RESTRICTIONS ON OPERATIONS

Maturity Method for determination of opening time will be required for this project. Payment included in unit price for pavement.

3.08 QUALITY CONTROL

A. Contractor will not be required to perform Plastic Concrete testing. Air, Slump, Cylinders, and/or Beams to be completed by the Jurisdictional Engineer. Contractor shall provide materials for these tests by Jurisdiction.

D. Jurisdictional Engineer reserves the right to require thickness cores if paving operations or edge thickness indicate a thickness deficiency. Pay factor to be used only when Jurisdictional Engineer requires cores.

Contractor shall incur any cost required for thickness cores to be taken upon the discretion of the Jurisdictional Engineer.

SECTION 7020

2.01 - MATERIALS

Mix designation HMA 300K S shall be used.

Aggregate: Surface Course, ½ in. mix, Type A aggregate, 60% crushed.

DIVISION 9 - SITE WORK & LANDSCAPING

SECTION 9010

1.02 - DESCRIPTION OF WORK

C. Completed installation shall include preparation of the seedbed, furnishing and installing seed, fertilizer and mulch, maintenance, and guarantee for completed seeded areas.

D. Areas to be seeded with stabilization crop are all areas disturbed by construction. All disturbed areas are to be seeded with permanent or temporary seeding as described in the Plans.

1.07 - WARRANTY

A. Warranty period is two full years for permanent seeding.

1.08 - MEASUREMENT FOR PAYMENT

A. Seeding for a completed installation of permanent seed shall not be measured, payment will be lump sum. For temporary seed, areas seeded shall be measured by the Jurisdictional Engineer and payed for on the basis of acres.

2.02 - SEED MIXTURES


Seed Mixtures are to be as specified in Plans.

3.06 - WATERING

Watering will not be required as part of this project.

3.07 - RESEEDING

A. When all work related to seeding on an area has been completed but is washed out or damaged prior to final acceptance of the seeding area and that area involves seeding in combination with mulching or fertilizing or both, the area shall be reseeded, refertilized, and remulched without additional compensation.

 BURRINGTON GROUP, INC. Civil Engineering Land Surveying 105 W. Main Street Manchester, Iowa 52057 Phone 563-927-2434 burringtongroup.com	DRAWN BY: JAW APPROVED BY: JAW		PROJECT WATER MAIN LOOPING 3RD STREET WEST COURT WORTHINGTON, IOWA	SHEET NAME SPECIAL PROVISIONS	SHEET NO. U.01	OF 11
	DATE: 3/15/2020 PROJECT NO: 19-053					