



BOONVILLE

City of Boonville

November 6, 2023

7:00 PM

City Council Chambers

525 E. Spring Street

Boonville MO 65233

Meeting Live streamed <https://www.youtube.com/user/cityofboonvillemo> & Channel 3 with Suddenlink Cable TV

I. Call to order – Pledge and Prayer

A. Steve Young

II. Roll Call

III. Hearing of Citizens' Comments

IV. Approval of Minutes

A. October 16 council minutes

V. Consent Items

A. Consider Pay Request No. 1- Final to Frech Paving in the amount of \$185,379.85 for Roadway Improvements 2023.

VI. Presentation of Accounts and Claims

A. Appropriations

VII. Unfinished Business

A. Second Reading of Bill No. 2023-029 Approving a Final Site Plan for 5 Star Truck Wash

VIII. New Business

A. First Reading of Bill No. 2023-30 Approving an Agreement with Missouri Highways and Transportation Commission for Highway 5 Sidewalk Project Phase 1

IX. Reports of Standing Committees

A. Street, Alley and Sanitation Board

B. Board of Public Works

C. Police Board

X. Reports of City Officials

A. City Administrator

B. Mayor

- Committee Appointment

C. City Clerk

XI. Miscellaneous

XII. Adjourn

NOTICE: The City of Boonville will comply with the Americans with Disabilities Act (ADA). Individuals who require an accommodation due to disability to attend this meeting should contact our office at (660) 882-2332 or Relay Missouri, 1-800-735-2966 TTY at least 48 hours in advance.



October 16, 2023

7:00 PM

**City Council Chambers
525 E. Spring Street
Boonville MO 65233**

I. Call to order – Pledge and Prayer

A. Brad Atkinson

Call to order – Pledge and Prayer The Boonville City Council met in Regular Session on October 16, 2023, at 7:00 p.m. in the Council Chambers located at 525 East Spring Street, Boonville, Missouri. The following officers were present; Ned Beach, Mayor Kate Fjell, City Administrator; Amber Davis, City Clerk; and Joe Pangburn, Sergeant at Arms. Interim City Counselor, Doug Abele was absent. The meeting was called to order. Brad Atkinson led the prayer, after the pledge of allegiance.

II. Roll Call

The following Council representatives were present: Brad Atkinson, Steve Young, Susan Meadows, Andrew Cowherd, Sy Harvell, Barry Elbert, Whitney Venable, and Drew Davis.

III. Hearing of Citizens' Comments

Robert Bohensteihl came before the council to express his concerns about the addition of Floride to the City's drinking water.

IV. Approval of Minutes

A. October 2 meeting minutes

The minutes stand as submitted

V. Consent Items

A. Consider Pay Request No. 3- Final from Smico Contracting in the amount of **\$24,232.36 for WWTP Repair Project.**

Mr. Venable moved and Mr. Davis seconded the motion to approve the consent items. Roll call was taken. Ayes: Atkinson, Young, Meadows, Cowherd, Harvell, Elbert, Venable, and Davis. Total (8) Opposed: None (0). Absent: None (0).

- B.** Consider Change Order No.1 from Smico Contracting Group in the amount of <
\$15,000> for WWTP Repair Project.

Mr. Venable moved and Mr. Davis seconded the motion to approve the consent items. Roll call was taken. Ayes: Atkinson, Young, Meadows, Cowherd, Harvell, Elbert, Venable, and Davis. Total (8) Opposed: None (0). Absent: None (0).

- C.** Consider Change Order No. 2 From Frech Paving Co. in the amount of **\$20,569.15** for roadway improvements 2023.

Mr. Venable moved and Mr. Davis seconded the motion to approve the consent items. Roll call was taken. Ayes: Atkinson, Young, Meadows, Cowherd, Harvell, Elbert, Venable, and Davis. Total (8) Opposed: None (0). Absent: None (0).

VI. Presentation of Accounts and Claims

A. Appropriations

Ms. Davis read the ordinance appropriating money, in its entirety, and a second time, by title only, since a copy of the ordinance had been made available prior to the meeting. Ms. Meadows moved and Mr. Cowherd seconded the motion to approve the ordinance appropriating money. Roll call was taken. Ayes: Atkinson, Young, Meadows, Cowherd, Harvell, Elbert, Venable, and Davis. Total (8) Opposed: None (0). Absent: None (0).

VII. Unfinished Business

- A.** Second Reading of Ordinance 2023-028 Authorizing and Approving Agreements and Easements with Climavision Properties, LLC for Radar Systems on Water Tower

Mr. Venable moved and Mr. Harvell seconded the motion to approve the bill. Roll call was taken. Ayes: Atkinson, Young, Meadows, Cowherd, Harvell, Elbert, Venable, and Davis. Total (8) Opposed: None (0). Absent: None (0).

VIII. New Business

- A.** First Reading of Bill No. 2023-029 Approving a Final Site Plan for 5 Star Truck Wash

Ms. Davis read, by title only, a copy of the bill

IX. Reports of Standing Committees

- A.** Police Board

Cancelled

- B.** Planning and Zoning Commission

Minutes are in the packet

X. Reports of City Officials

Ms. Fjell stated that with the end of the year coming up, if the council has any policy changes or capital projects they would like to discuss, now is the time to do so. Ms. Fjell mentioned

adding a 3% sales tax on marijuana to the April ballot and the council needed to start thinking about whether they wanted to do that.

XI. Miscellaneous

None

XII. Adjourn

With no further discussion, Mr. Young moved, and Mr. Cowherd seconded the motion to Adjourn at 7:20 p.m. and the voice vote was unanimous.

- Alliance Water

APPLICATION AND CERTIFICATE FOR PAYMENT (PAY ESTIMATE)

Original _____ of 6
Page _____ of

PROJECT NO: 454-297

PROJECT NAME: ROADWAY IMPROVEMENTS 2023

CONTRACTOR: FRECH PAVING CO

OWNER: CITY OF BOONVILLE MO

APPLICATION NO:

1 - Final

APPLICATION DATE:

November 6, 2023

PERIOD FROM:

ORIGINAL CONTRACT SUM: \$164,810.70
NET CHANGE BY CHANGE ORDERS: \$20,569.15
CONTRACT SUM TO DATE: \$185,379.85
TOTAL COMPLETED & STORED TO DATE: \$185,379.85
RETAINAGE 0%: \$0.00
TOTAL EARNED LESS RETAINAGE: \$185,379.85
LESS PREVIOUS CERTIFICATES OF PAYMENT: \$0.00
CURRENT PAYMENT DUE: \$185,379.85
CONTRACT TIME LIMIT DATE: October 24, 2023

ORDER NO.	DATE APPROVED	ADDITIONS	DEDUCTIONS
1	7/14/2023	\$0.00	
2	10/16/2023	\$20,569.15	
TOTALS		\$20,569.15	\$0.00

NET CHANGE BY CHANGE ORDERS: \$20,569.15

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

In accordance with the Contract Documents, based on site observations and the data comprising this application, the Engineer certifies to the Owner that to the best of the Engineer's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED OF \$ 185,379.85
(Attach explanation if amount certified differs from the amount applied for. Initial all figures on this Application and on the Continuation Sheet that are changed to conform to the amount certified.)

CONTRACTOR: Frech Paving

OWNER:

ENGINEER:

BY: [Signature]

BY:

BY: [Signature]

DATE: 10-13-2023



MECO ENGINEERING COMPANY, INC.
ENGINEERS * SURVEYORS

2701 INDUSTRIAL DRIVE
JEFFERSON CITY, MO 65109

(573)893-5558

Pay Estimate No.1 - Final ROADWAY IMPROVEMENTS 2023

Item	Nc Description	Contract Quantity	Unit	Unit Price	Total	In Place Prev. Pay App	Installed This Period	\$ Installed This Pay App	Total in Place	Left to Finish	Unit
1	Mobilization	1	LS	\$ 2,025.00	\$ 2,025.00	0	1	\$2,025.00	\$2,025.00	0	LS
2	Traffic Control	1	LS	\$ 2,530.00	\$ 2,530.00	0	1	\$2,530.00	\$2,530.00	0	LS
3	Remove Improvements	360	SY	\$ 25.30	\$ 9,108.00	0	360	\$9,108.00	\$9,108.00	0	SY
4	Remove Improvements (Concrete)	63	SY	\$ 127.00	\$ 8,001.00	0	63	\$8,001.00	\$8,001.00	0	SY
5	Remove Unsuitable Materials	0	CY	\$ 82.50	\$ -	0	0	\$0.00	\$0.00	0	CY
6	Rock Backfill in Unsuitable Material Areas	0	CY	\$ 82.50	\$ -	0	0	\$0.00	\$0.00	0	CY
7	Subgrade Compaction	378	SY	\$ 1.60	\$ 604.80	0	378	\$604.80	\$604.80	0	SY
8	Geotextile Separation Fabric	315	SY	\$ 2.95	\$ 929.25	0	315	\$929.25	\$929.25	0	SY
9	6" Type 5 Aggregate	315	SY	\$ 13.05	\$ 4,110.75	0	315	\$4,110.75	\$4,110.75	0	SY
10	Tack Coat	136	GAL	\$ 8.00	\$ 1,088.00	0	136	\$1,088.00	\$1,088.00	0	GAL
11	5" Plant Mix Bituminous Black Base	0	SY	\$ 33.75	\$ -	0	0	\$0.00	\$0.00	0	SY
12	2" BP-1 Overlay	2,195	SY	\$ 12.50	\$ 27,437.50	0	2,195	\$27,437.50	\$27,437.50	0	SY
13	2" Edge Mill with Butt Joint	750	SY	\$ 5.40	\$ 4,050.00	0	750	\$4,050.00	\$4,050.00	0	SY
14	2" Mill and Overlay Course	1,279	SY	\$ 24.85	\$ 31,783.15	0	1,279	\$31,783.15	\$31,783.15	0	SY
15	30" Rollback Curb	225	LF	\$ 62.45	\$ 14,051.25	0	225	\$14,051.25	\$14,051.25	0	LF
16	Contingency	0	LS	\$ -	\$ -	0	0	\$0.00	\$0.00	0	LS
17	Wedge and Overlay Pearre Lane	1	LS	\$ 58,369.50	\$ 58,369.50	0	1	\$58,369.50	\$58,369.50	0	LS
18	Tear out Approach	17	SY	\$ 105.20	\$ 1,788.40	0	17	\$1,788.40	\$1,788.40	0	SY
19	Pour New Approach	17	SY	\$ 250.50	\$ 4,258.50	0	17	\$4,258.50	\$4,258.50	0	SY
20	Additional Edge Milling / Sweeping	1	LS	\$ 1,000.00	\$ 1,000.00	0	1	\$1,000.00	\$1,000.00	0	LS
21	3" Base Asphalt	315	SY	\$ 26.57	\$ 8,369.55	0	315	\$8,369.55	\$8,369.55	0	SY
22	Main Street Water Line Break Patch Repair	48	SY	\$ 122.40	\$ 5,875.20	0	48	\$5,875.20	\$5,875.20	0	SY
Contract Total					\$ 185,379.85			\$185,379.85	\$185,379.85		

FINAL
WAIVER OF LIEN
(LABOR AND/OR MATERIALS)

STATE OF: MISSOURI

DATE: 10-13-2023

COUNTY OF: BOONE

To All Whom it May Concern:

WHEREAS, We the undersigned have been employed by CITY OF BOONVILLE
to furnish LABOR AND/OR MATERIALS for the project known as

ROADWAY IMPROVEMENTS 2023

NOW THEREFORE, We the undersigned for and in consideration of the sum of
\$ 185,379.⁸⁵ (ONE HUNDRED EIGHTY FIVE THOUSAND THREE HUNDRED SEVENTY NINE + ⁸⁵/100
dollars and _____ cents)
and other good and valuable consideration, the receipt whereof is hereby acknowledged, do hereby waive and
release any and all lien and claim or right to lien on said above described project and premises or the
improvements thereon under the Statutes of the State of MISSOURI relating to Mechanics and
Materialmen's Liens, on account of labor or materials or both, furnished by the undersigned to aforesaid
purchases for said project and premises or improvements thereon up to and including OCTOBER
13, 2023 only, but not for any furnished subsequent to said date. Provided further, this
release shall not become effective until all checks given as part of this consideration hereof, shall have been
honored and paid in full.

We also hereby acknowledge that all of our material suppliers and contractors have been paid in full by us and
cannot claim or right to lien on the above stated project.

Given under our hands and seals this 13th day of October, 2023.

Company: FRECH PAVING CO

By: JEN FRECH

Title: VICE PRESIDENT

Subscribed and sworn before me this 13th day of October, 2023.

Notary Public: [Signature]

My Commission Expires: 10-03-2025

Seal:

KEVIN RAWLINGS
Notary Public-Notary Seal
STATE OF MISSOURI
Commissioned for Boone County
My Commission Expires: October 3, 2025
ID. #17090827

ORDINANCE APPROPRIATING MONEY

Be it Ordained by the Council of the City of Boonville as follows:

Section 1: For the purpose of paying salaries and various accounts against the City of Boonville, which have been allowed by the Council, at the regular meeting thereof on **November 6, 2023** the sum of **\$772,410.38**

General Fund	\$186,279.18
Sanitation	\$41,300.56
CIP Tax	\$70,394.13
Water Works	\$156,017.93
Capital Projects	\$99,573.52
Waste Water	\$86,219.22
Tourism	\$19,088.30
Gaming	\$99,225.62
Parks/Water	\$14,311.92
Kemper Sales Tax	\$0.00
Economic Development Projects	\$0.00

Section 2: The Accountant is hereby authorized and instructed to draw checks on the respective City bank accounts, in favor of the persons whose salaries and accounts have been allowed as above, amounting to **\$772,410.38** being the total amount of money above appropriated.

Section 3: This ordinance shall take effect and be in force from and after its passage. First reading on **November 6, 2023** read for the second time this **November 6, 2023** since a copy was made available prior to the meeting.

Approved **November 6, 2023** _____

Mayor

Endorsed **November 6, 2023** : I hereby certify that a sufficient sum of money stands to the credit of the City, unappropriated, in the various funds to meet the requirements of this ordinance.

Accountant

BILL NO: 2023-029

ORDINANCE NO. _____

AN ORDINANCE OF THE CITY OF BOONVILLE, MISSOURI APPROVING THE FINAL SITE PLAN FOR 5 STAR TRUCK WASH AT 1610 MID AMERICA INDUSTRIAL COURT, BOONVILLE, COOPER COUNTY, MISSOURI; PROVIDING AN EFFECTIVE DATE THEREFORE AND REPEALING ALL ORDINANCES IN CONFLICT WITH THIS ORDINANCE.

WHEREAS, 5 Star Truck wash is proposing to improve the property at 1610 Mid America Industrial Court; and

WHEREAS, City staff met and communicated with property owner's engineer to work out the details of construction and site planning and to ensure the plans are in compliance with the City's zoning ordinances and planning standards; and

WHEREAS, final plans were presented to the Planning and Zoning Commission, which voted on October 10, 2023, to approve the final site plans. The plans include **Exhibit A**, herein incorporated, and attached hereto this ordinance. The Commission has recommended their approval by the Council.

WHEREAS, the City Council has evaluated the site plans for compatibility with the use of abutting sites, the safety and convenience of vehicle and pedestrian traffic and in view of the potential economic benefit to the City of Boonville and finds them to be appropriate to further economic development of the City.

NOW THEREFOR, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF BOONVILLE, MISSOURI AS FOLLOWS:

SECTION 1: That the final site plan as shown and indicated in **Exhibit A**, attached hereto and made a part hereof, at 1610 Mid American Industrial Court in the City of Boonville, Cooper County, Missouri should be and is hereby approved.

SECTION 2: This ordinance shall take effect and be in full force from and after its passage; and be approval granted herein shall be valid for a period not to exceed 12 months thereafter.

READ FOR THE FIRST TIME 16th DAY OF OCTOBER 2023

READ FOR THE SECOND TIME AND PASSED THIS 6TH DAY OF NOVEMBER 2023, AFTER A COPY OF THIS ORDINANCE AND REFERENCED PLANS HAVE BEEN MADE AVAILABLE FOR PUBLIC INSPECTION PRIOR TO ITS READING.

PRESIDENT OF THE COUNCIL

APPROVED THIS 6TH DAY OF NOVEMBER 2023

Ned Beach, Mayor

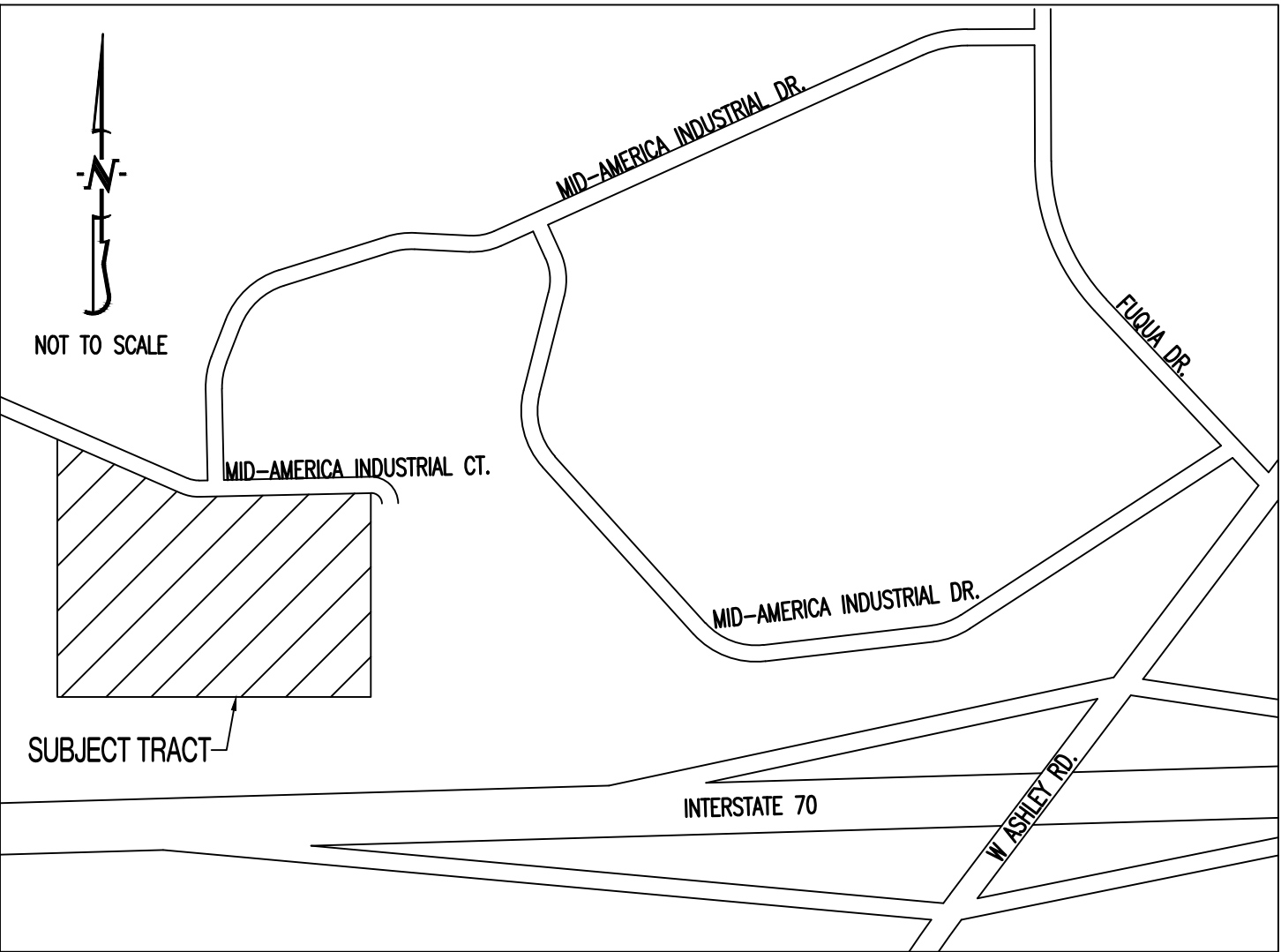
ATTEST:

Amber Davis, City Clerk

5 STAR TRUCK WASH

MID AMERICA INDUSTRIAL COURT, BOONVILLE MO

LOCATION MAP



FLOOD PLAIN STATEMENT:

THIS TRACT IS LOCATED IN ZONE X UNSHADED - AREAS DETERMINED TO BE OUTSIDE THE 1% ANNUAL CHANCE FLOOD AS SHOWN ON THE FEMA F.I.R.M. PANEL 29053C0150C & 29053C0135C, DATED MAY 3, 2011.

LEGAL DESCRIPTION:

LOT 14A OF MID-AMERICA INDUSTRIAL CENTRE, PLAT 3.

UTILITY COMPANIES:

LOCATES:

MISSOURI ONE CALL INC.
1022 B NORTHEAST DRIVE
JEFFERSON CITY, MO 65109
1-800-344-7483



ELECTRIC:

AMEREN MISSOURI ELECTRIC
301 2ND ST. BOONVILLE, MO 65233
314-554-4930

CO-MO ELECTRIC COOP.
28668 HIGHWAY 5
TIPTON, MISSOURI
660-433-5521

NATURAL GAS:

AMEREN MISSOURI GAS
BOONVILLE, MO
314-554-4942

TELEPHONE:

AT&T DISTRIBUTION
220 E. 5TH ST.
SEDALIA, MO 65201
660-829-0990

MNA-BLUEBIRD
2005 W. BROADWAY BLDG. A, SUITE 215,
COLUMBIA, MO 65203
573-777-4200

SANITARY SEWER:

CITY OF BOONVILLE
1200 LOCUST STREET
BOONVILLE, MO 65233
(660) 882-5257

FIBER OPTIC:

CO-MO ELECTRIC COOP.
28668 HIGHWAY 5
TIPTON, MISSOURI
660-433-5521

SUDENLINK COMMUNICATIONS
102 N WOODBINE RD
SAINT JOSEPH, MO 64506
(844) 874-7558

TELEVISION:

SUDENLINK COMMUNICATIONS
102 N WOODBINE RD
SAINT JOSEPH, MO 64506
(844) 874-7558

WATER:

CITY OF BOONVILLE
1200 LOCUST STREET
BOONVILLE, MO 65233
(660) 882-5257

COOPER COUNTY CPWSD 1
223 MAIN ST.
BOONVILLE, MO 65233
(660) 882-6455

GENERAL NOTES:

ANY PUBLIC STREET, STORM DRAIN, AND SANITARY SEWER CONSTRUCTION TO BE IN ACCORDANCE WITH THE CITY OF BOONVILLE SPECIFICATIONS AND STANDARDS.

CONTRACTOR WILL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF TRAFFIC CONTROL DEVICES NECESSARY TO COMPLETE THEIR PORTION OF WORK. THE DEVICES AND METHODS EMPLOYED WILL COMPLY WITH THE CURRENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THIS LOT CONTAINS APPROXIMATELY 9.40 ACRES.

THIS LOT IS ZONED C-2 (CENTRAL COMMERCIAL DISTRICT).

THE STORM SEWER NETWORK DESIGN FOR THIS PROJECT IS BASED ON OPEN CHANNEL FLOW; THEREFORE THE HYDRAULIC GRADE LINE IS AT OR LESS THAN THE CROWN OF THE PIPE.

EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATES (HORIZONTAL AND VERTICAL) PRIOR TO ANY EXCAVATION.

ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.

A GEOTECHNICAL EVALUATION HAS BEEN PERFORMED BY TERRACON. REFER TO REPORT NUMBER 15205021 DATED MARCH 18, 2020.

REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR NARRATIVE REPORT AND BMP DESCRIPTIONS AND DETAILS.

ALL SLOPES ARE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

IT IS THE INTENT OF THESE PLANS TO COMPLY WITH THE REQUIREMENTS OF THE MOENR CLEAN WATER COMMISSION.

ALL DISTURBED AREAS WITHIN THE "LIMITS OF DISTURBANCE" SHALL BE FINE GRADED, SEEDED, AND MULCHED.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES AND REMOVING THEM ONCE THE SITE IS STABILIZED.

ALL SANITARY SEWER PIPE TO BE PVC SDR 35 UNLESS OTHERWISE NOTED.

ALL SEWERLINES SHALL BE CONSTRUCTED AT LEAST 10 FEET HORIZONTALLY, EDGE TO EDGE, FROM ANY WATERLINE AND AT LEAST 24 INCHES VERTICALLY BETWEEN THE OUTSIDE LIMITS OF THE SANITARY SEWER AND WATERLINE. FOR CONDITIONS OTHER THAN THOSE IDENTIFIED ABOVE, CONTACT THE ENGINEER FOR SPECIFIC INSTRUCTIONS.

ALL HDPE PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL FOR PIPE BEDDING REQUIREMENTS.

IN ORDER TO TERMINATE A STATE OPERATING PERMIT THE MISSOURI DEPARTMENT OF NATURAL RESOURCES (MDNR) REQUIRES THAT THE PERMITTEE SUBMIT A COMPLETED FORM H (INCLUDED WITH THE APPROVAL PERMIT) TO THE MDNR. A PERMIT IS ELIGIBLE FOR TERMINATION WHEN EITHER PERENNIAL VEGETATION, PAVEMENT, BUILDINGS, OR STRUCTURES USING PERMANENT MATERIALS COVER ALL AREAS THAT HAVE BEEN DISTURBED. VEGETATIVE COVER SHALL BE AT LEAST 70% OF FULLY ESTABLISHED PLANT DENSITY OVER 100% OF THE DISTURBED AREA.

LAND DISTURBANCE SITES SHOULD BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 48 HOURS AFTER ANY STORM EVENT EQUAL TO OR GREATER THAN A 2-YEAR, 24-HOUR STORM HAS CEASED DURING A NORMAL WORK DAY OR WITHIN 72 HOURS IF THE RAIN EVENT CEASES DURING A NON-WORK DAY SUCH AS A WEEKEND OR HOLIDAY. ANY DEFICIENCIES SHALL BE NOTED IN A WEEKLY REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE REPORT.

TOTAL DISTURBED AREA ON SITE ≈ 2.0 AC.

MISSOURI DNR LAND DISTURBANCE PERMIT NUMBER TO BE DETERMINED PRIOR TO CONSTRUCTION.

Sheet List Table

Sheet Number	Sheet Title	ORIGINAL 07/28/2023	REVISION 1 CITY COMMENTS 09/20/2023	REVISION 2	REVISION 3
CE 0	COVER SHEET	X	X		
CE 1	DEMOLITION PLAN	X	X		
CE 2	EROSION CONTROL PLAN	X			
CE 3	GRADING PLAN	X	X		
CE 4	UTILITY PLAN	X	X		
CE 5	SITE PLAN	X	X		
CE 6	STORM PROFILES AND DETAILS	X	X		
CE 7	SITE DETAILS	X	X		
CE 8	PRIVATE SPECIFICATIONS	X			

LEGEND OF SYMBOLS:

=====	EXISTING CURB	FF=XXXX	FINISHED FLOOR OF STRUCTURE
=====	PROPOSED CURB	XXX.XX TC	PROPOSED TOP OF CURB ELEVATION
=====	RIP RAP	XXX.XX TP	PROPOSED TOP OF PAVEMENT ELEVATION
=====	EXISTING STRUCTURE	XXX.XX FG	PROPOSED FINISHED GRADE ELEVATION
=====	EXISTING TREELINE	XXX.XX TW	PROPOSED TOP OF WALL
=====	PROPOSED TREELINE	XX	LOT NUMBER
=====	EDGE OF WATERWAY	X	STORM SEWER STRUCTURE LABEL
=====	EXISTING WATERLINE	X	SANITARY SEWER STRUCTURE LABEL
=====	PROPOSED WATERLINE	HP.	HIGH POINT
=====	EXISTING GAS LINE	LP.	LOW POINT
=====	PROPOSED GAS LINE	EXISTING SIGNS	EXISTING SIGNS
=====	EXISTING UNDERGROUND TELEPHONE	EXISTING POWER POLE	EXISTING POWER POLE
=====	EXISTING UNDERGROUND CABLE TELEVISION	EXISTING GAS VALVE	EXISTING GAS VALVE
=====	EXISTING HIGH VOLTAGE ELECTRIC	EXISTING WATER VALVE	EXISTING WATER VALVE
=====	EXISTING OVERHEAD ELECTRIC	EXISTING GAS METER	EXISTING GAS METER
=====	EXISTING UNDERGROUND ELECTRIC	EXISTING WATER METER	EXISTING WATER METER
=====	EXISTING OVERHEAD ELEC. & TV	EXISTING FIRE HYDRANT	EXISTING FIRE HYDRANT
=====	EXISTING OVERHEAD ELEC., TV & TELE.	MANHOLE	MANHOLE
=====	EXISTING SANITARY SEWER	EXISTING SANITARY SEWER LATERAL	EXISTING SANITARY SEWER LATERAL
=====	PROPOSED SANITARY SEWER	PROPOSED SANITARY SEWER LATERAL	PROPOSED SANITARY SEWER LATERAL
=====	EXISTING MINOR CONTOUR	PROPOSED TRACER WIRE TEST STATION BOX	PROPOSED TRACER WIRE TEST STATION BOX
=====	EXISTING MAJOR CONTOUR	EXISTING AIR CONDITIONER	EXISTING AIR CONDITIONER
=====	PROPOSED MINOR CONTOUR	EXISTING TELEPHONE PEDESTAL	EXISTING TELEPHONE PEDESTAL
=====	PROPOSED MAJOR CONTOUR	EXISTING ELECTRICAL TRANSFORMER	EXISTING ELECTRICAL TRANSFORMER
=====	100 YEAR FLOOD PLAIN	EXISTING ELECTRIC METER	EXISTING ELECTRIC METER
=====	FLOODWAY	EXISTING LIGHT POLE	EXISTING LIGHT POLE
=====	ORDINARY HIGH WATER MARK	EXISTING GUY WIRE	EXISTING GUY WIRE
=====	STREAM SIDE BUFFER		
=====	OUTER STREAM BUFFER		

REVISIONS:

NO.	DATE
ORIGINAL	07/28/2023
1	09/20/2023

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

ANDREW T. GREENE
MO LICENSE: 2020000043

PREPARED BY:
CROCKETT
ENGINEERS & ARCHITECTS
1009 W. WILSON BLVD., SUITE 100
COLUMBIA, MISSOURI 65203
(314) 487-0590
www.crockettingeering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#000000001

OWNER:
THOMSEN TRUCK PROPERTIES, LLC
3311 ROAD
PALMIRA, NEBRASKA 68448

5 STAR TRUCK WASH

MID AMERICA INDUSTRIAL COURT
BOONVILLE, COOPER COUNTY, MISSOURI

DRAWING INCLUDES:

COVER SHEET

DESIGNED: ATG

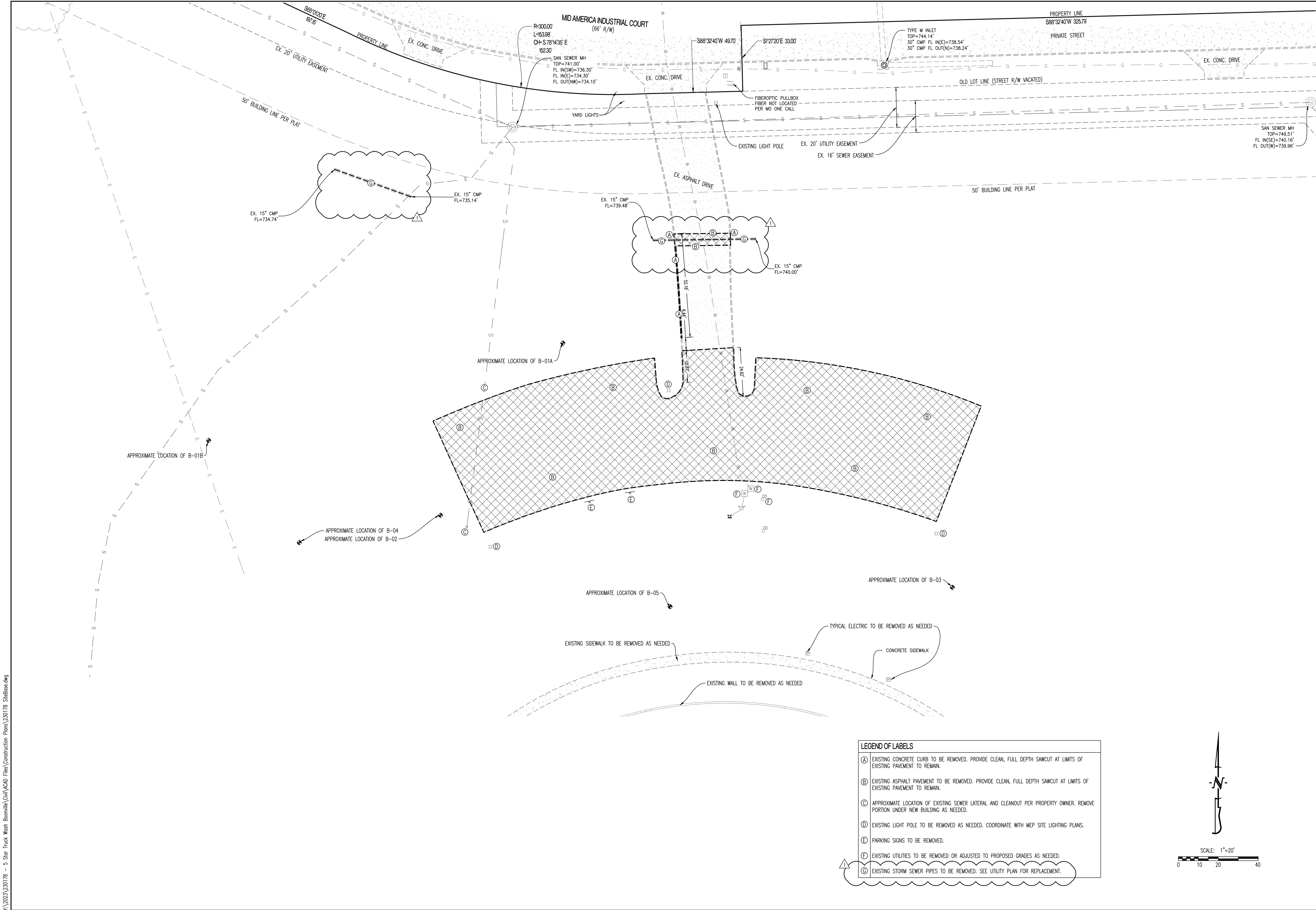
DRAWN: NMD

PROJECT NO: 230178

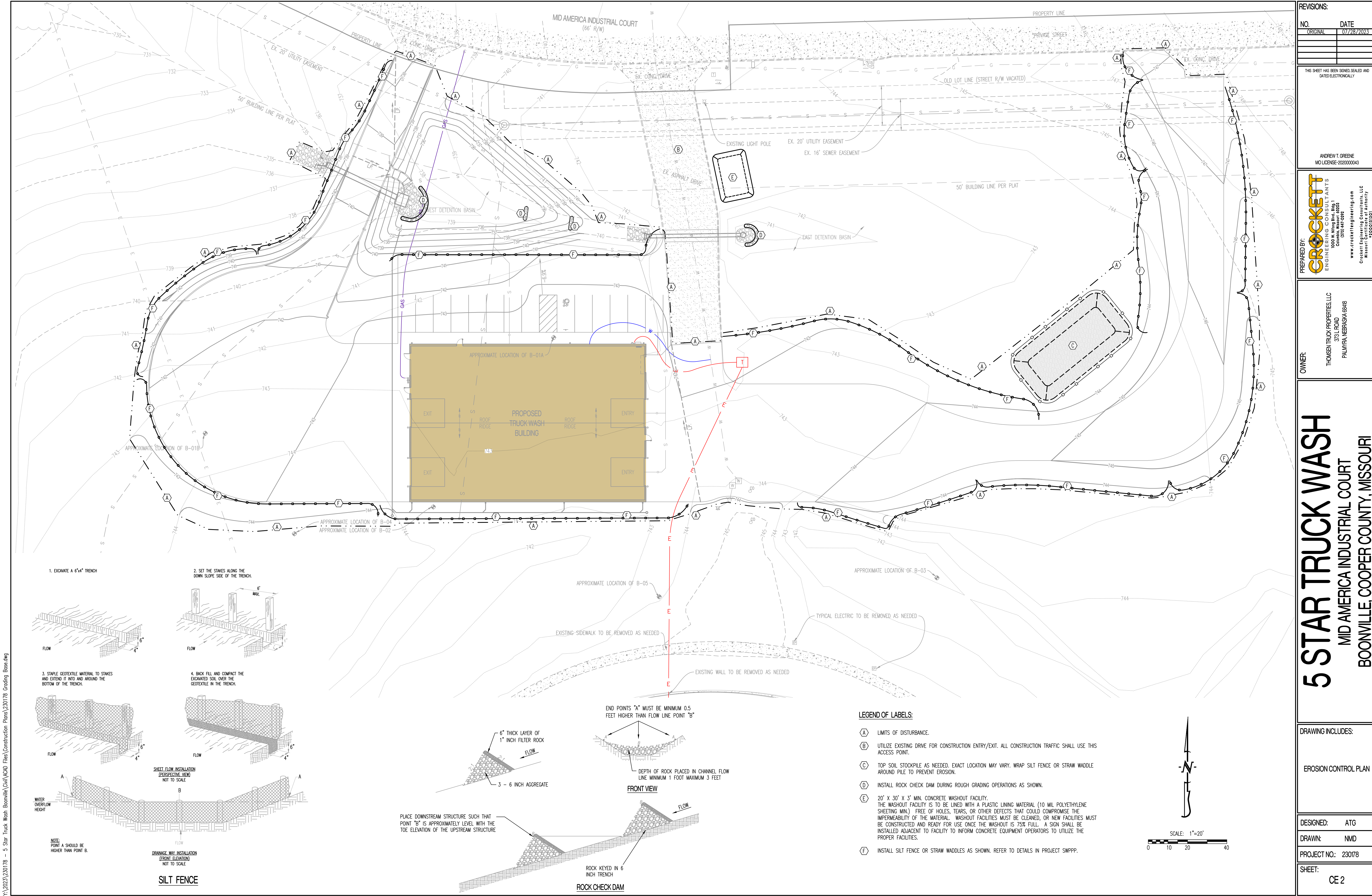
SHEET:

CE 0

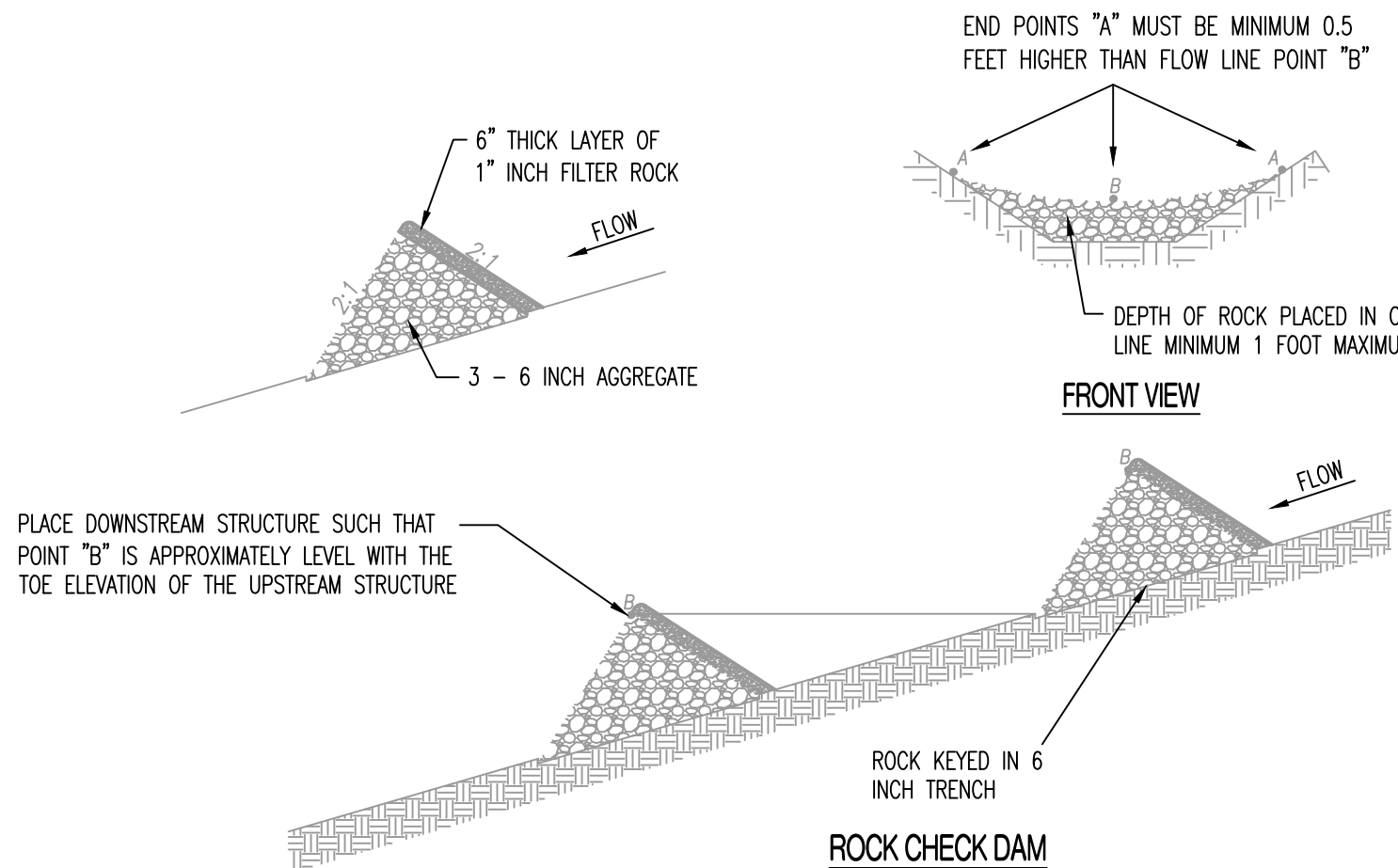
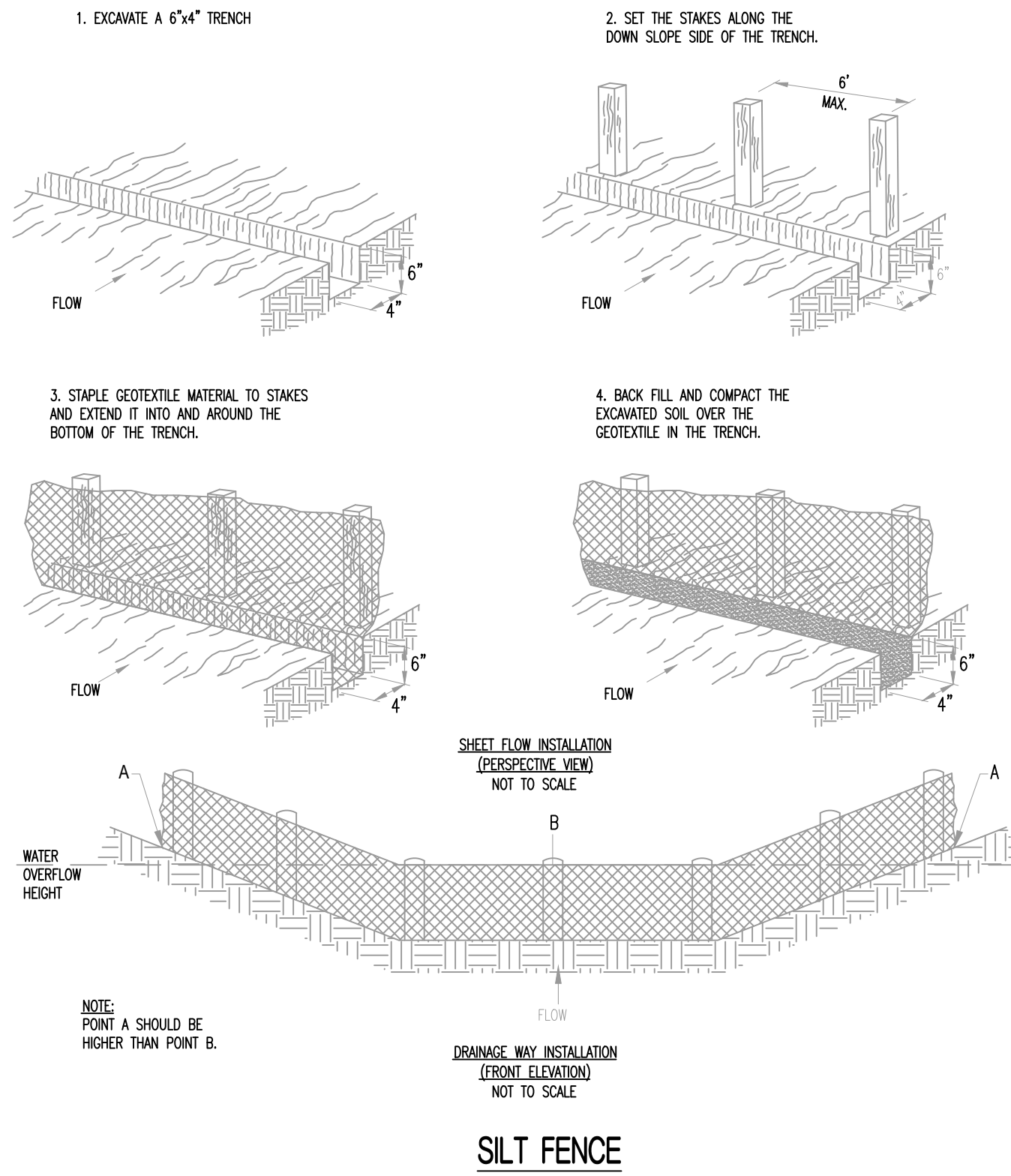
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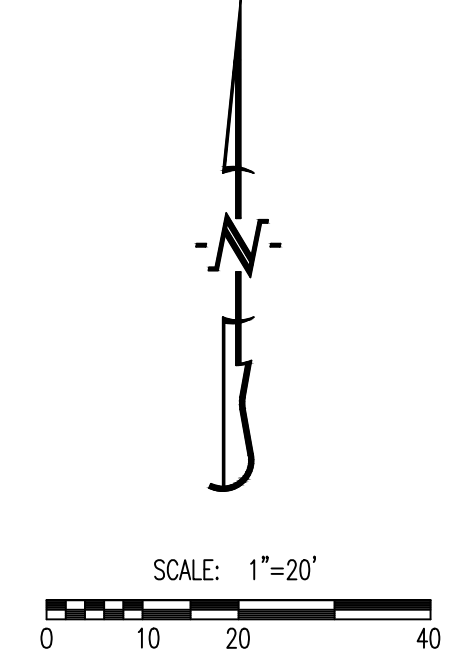
REVISIONS:	
NO.	DATE
ORIGINAL	07/28/2023
1	09/20/2023
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY	
ANDREW T. GREENE MO LICENSE 2020000043	
PREPARED BY: CROCKETT ENGINEERS & CONSULTANTS ENGINEERS & CONSULTANTS 1000 W. N. Road, Suite 100 Columbia, Missouri 65203 (314) 447-0592 www.crockettengineering.com Crockett Engineering Consultants, LLC Missouri Certificate of Authority #000000001	
OWNER: THOMSEN TRUCK PROPERTIES, LLC 331 L ROAD PALMYRA, NEBRASKA 68448	
5 STAR TRUCK WASH MID AMERICA INDUSTRIAL COURT BOONVILLE, COOPER COUNTY, MISSOURI	
DRAWING INCLUDES: DEMOLITION PLAN	
DESIGNED: ATG	
DRAWN: NMD	
PROJECT NO: 230178	
SHEET: CE1	



Y:\2023\230178 - 5 Star Truck Wash Boonville Civil\A00 Files\Construction Plans\230178 Grading Base.dwg



- LEGEND OF LABELS:
- (A) LIMITS OF DISTURBANCE.
 - (B) UTILIZE EXISTING DRIVE FOR CONSTRUCTION ENTRY/EXIT. ALL CONSTRUCTION TRAFFIC SHALL USE THIS ACCESS POINT.
 - (C) TOP SOIL STOCKPILE AS NEEDED. EXACT LOCATION MAY VARY. WRAP SILT FENCE OR STRAW WADDLE AROUND PILE TO PREVENT EROSION.
 - (D) INSTALL ROCK CHECK DAM DURING ROUGH GRADING OPERATIONS AS SHOWN.
 - (E) 20' X 30' X 3' MIN. CONCRETE WASHOUT FACILITY. THE WASHOUT FACILITY IS TO BE LINED WITH A PLASTIC LINING MATERIAL (10 MIL POLYETHYLENE SHEETING MIN.) FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COULD COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL. A SIGN SHALL BE INSTALLED ADJACENT TO FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
 - (F) INSTALL SILT FENCE OR STRAW WADDLES AS SHOWN. REFER TO DETAILS IN PROJECT SWPPP.



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Columbia, Missouri 65203
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www.crockettengineering.com
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5 STAR TRUCK WASH

MID AMERICA INDUSTRIAL COURT

BOONVILLE, COOPER COUNTY, MISSOURI

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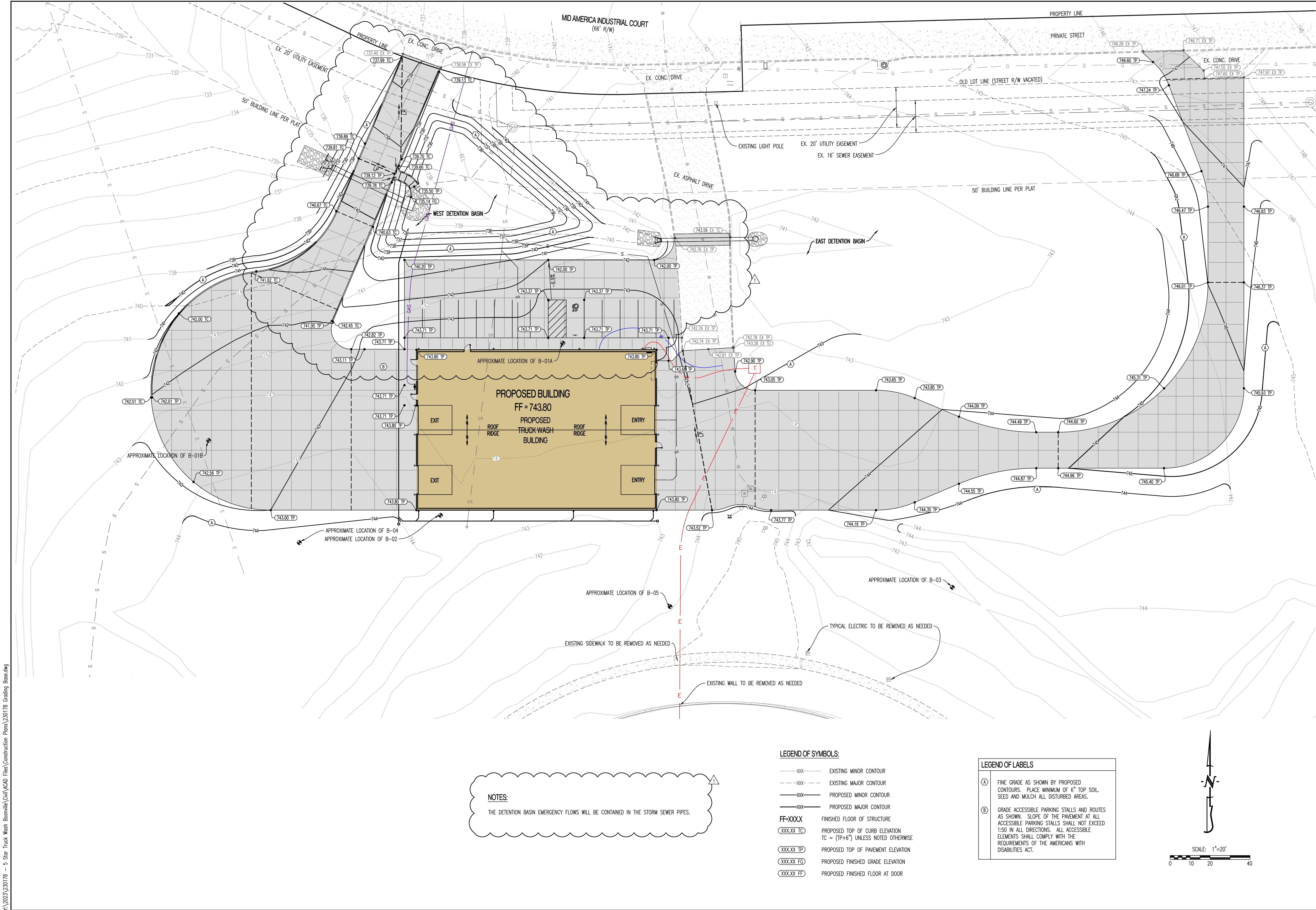
EROSION CONTROL PLAN

DESIGNED: ATG

DRAWN: NMD

PROJECT NO: 230178

SHEET: CE 2



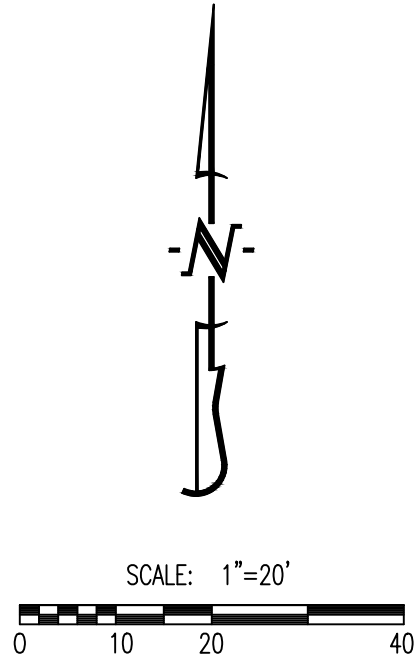
NOTES:
THE DETENTION BASIN EMERGENCY FLOWS WILL BE CONTAINED IN THE STORM SEWER PIPES.

LEGEND OF SYMBOLS:

- EXISTING MINOR CONTOUR
- - - - - EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- FF=XXXX FINISHED FLOOR OF STRUCTURE
- XXX.XX TC PROPOSED TOP OF CURB ELEVATION
TC = (TP+6") UNLESS NOTED OTHERWISE
- XXX.XX TP PROPOSED TOP OF PAVEMENT ELEVATION
- XXX.XX FG PROPOSED FINISHED GRADE ELEVATION
- XXX.XX FF PROPOSED FINISHED FLOOR AT DOOR

LEGEND OF LABELS

- (A) FINE GRADE AS SHOWN BY PROPOSED CONTOURS. PLACE MINIMUM OF 6" TOP SOIL SEED AND MULCH ALL DISTURBED AREAS.
- (B) GRADE ACCESSIBLE PARKING STALLS AND ROUTES AS SHOWN. SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 1:50 IN ALL DIRECTIONS. ALL ACCESSIBLE ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.



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www.crockettengineering.com
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PALMIRA, NEBRASKA 68468

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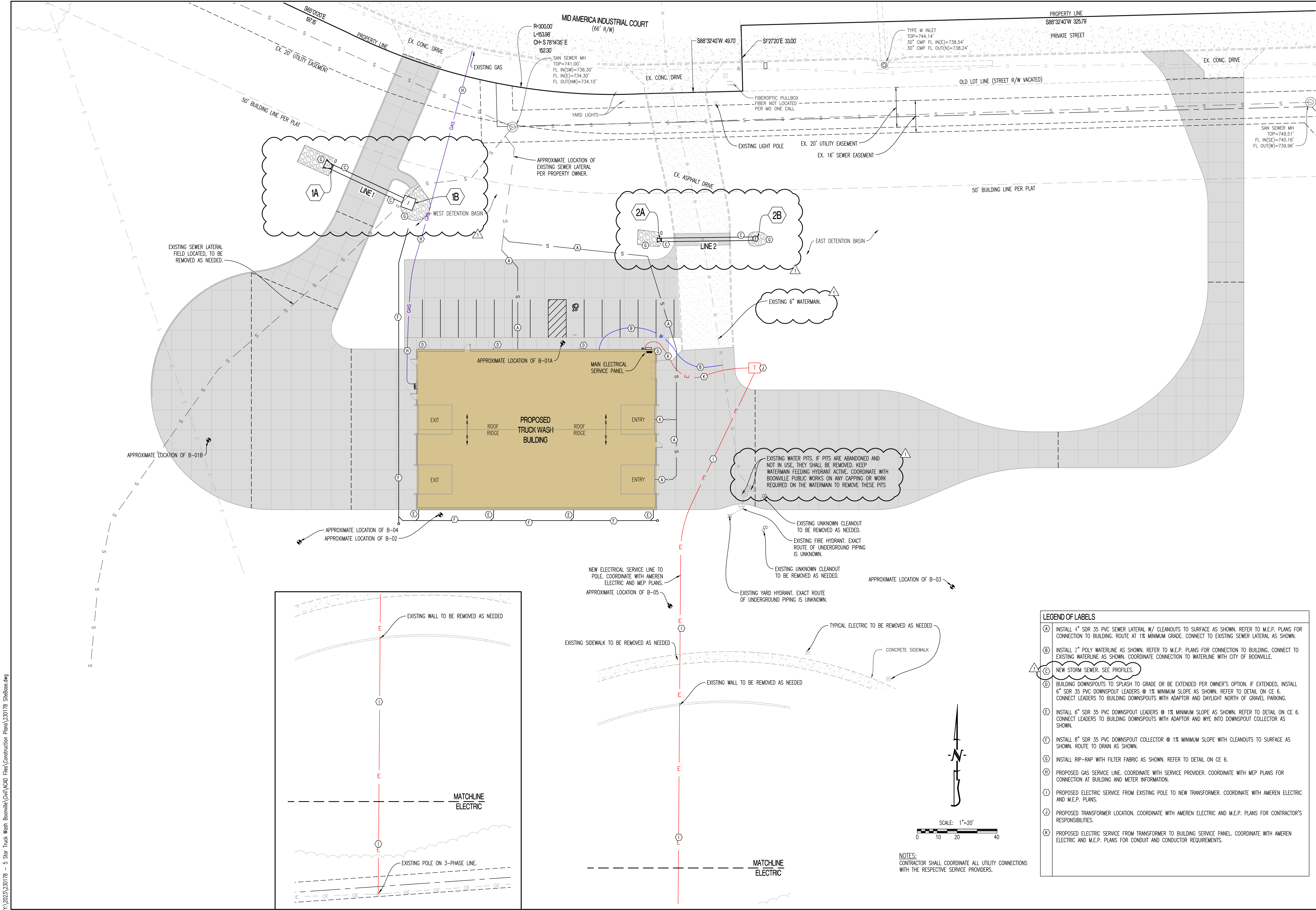
GRADING PLAN

DESIGNED: ATG

DRAWN: NMD

PROJECT NO: 230178

SHEET: CE 3



LEGEND OF LABELS

1

6

INSTALL 4" SDR 35 PVC SEWER LATERAL W/ CLEANOUTS TO SURFACE AS SHOWN. REFER TO M.E.P. PLANS FOR CONNECTION TO BUILDING. ROUTE AT 1% MINIMUM GRADE. CONNECT TO EXISTING SEWER LATERAL AS SHOWN.

2

6

INSTALL 2" POLY WATERLINE AS SHOWN. REFER TO M.E.P. PLANS FOR CONNECTION TO BUILDING. CONNECT TO EXISTING WATERLINE AS SHOWN. COORDINATE CONNECTION TO WATERLINE WITH CITY OF BOONVILLE.

3

6

NEW STORM SEWER. SEE PROFILES.

4

6

BUILDING DOWNSPOUTS TO SPLASH TO GRADE OR BE EXTENDED PER OWNER'S OPTION. IF EXTENDED, INSTALL 6" SDR 35 PVC DOWNSPOUT LEADERS @ 1% MINIMUM SLOPE AS SHOWN. REFER TO DETAIL ON CE 6. CONNECT LEADERS TO BUILDING DOWNSPOUTS WITH ADAPTOR AND DAYLIGHT NORTH OF GRAVEL PARKING.

5

6

INSTALL 6" SDR 35 PVC DOWNSPOUT LEADERS @ 1% MINIMUM SLOPE AS SHOWN. REFER TO DETAIL ON CE 6. CONNECT LEADERS TO BUILDING DOWNSPOUTS WITH ADAPTOR AND WYE INTO DOWNSPOUT COLLECTOR AS SHOWN.

6

6

INSTALL 8" SDR 35 PVC DOWNSPOUT COLLECTOR @ 1% MINIMUM SLOPE WITH CLEANOUTS TO SURFACE AS SHOWN. ROUTE TO DRAIN AS SHOWN.

7

6

INSTALL RIP-RAP WITH FILTER FABRIC AS SHOWN. REFER TO DETAIL ON CE 6.

8

6

PROPOSED GAS SERVICE LINE. COORDINATE WITH SERVICE PROVIDER. COORDINATE WITH MEP PLANS FOR CONNECTION AT BUILDING AND METER INFORMATION.

9

6

PROPOSED ELECTRIC SERVICE FROM EXISTING POLE TO NEW TRANSFORMER. COORDINATE WITH AMEREN ELECTRIC AND M.E.P. PLANS.

10

6

PROPOSED TRANSFORMER LOCATION. COORDINATE WITH AMEREN ELECTRIC AND M.E.P. PLANS FOR CONTRACTOR'S RESPONSIBILITIES.

11

6

PROPOSED ELECTRIC SERVICE FROM TRANSFORMER TO BUILDING SERVICE PANEL. COORDINATE WITH AMEREN ELECTRIC AND M.E.P. PLANS FOR CONDUIT AND CONDUCTOR REQUIREMENTS.

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BOONVILLE, COOPER COUNTY, MISSOURI

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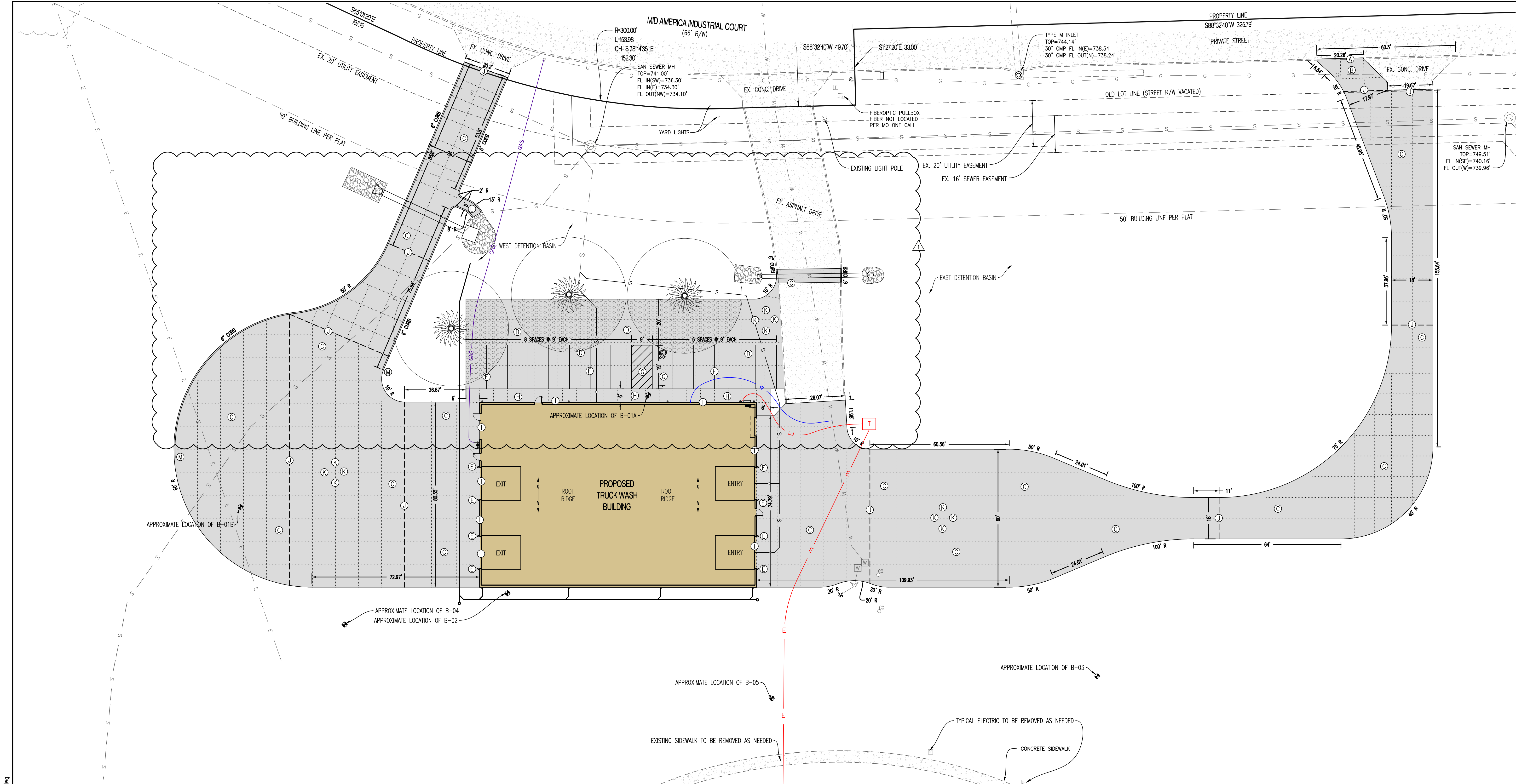
UTILITY PLAN

DESIGNED: ATG

DRAWN: NMD

PROJECT NO: 230178

SHEET: CE 4



LANDSCAPE COMPLIANCE:

SECTION 15.4 - SCREENING AND BUFFERING BETWEEN ZONING DISTRICTS:

WEST: NO REQUIREMENT
EAST: NO REQUIREMENT
SOUTH: NO REQUIREMENT

SECTION 15.5 - PARKING LOT LANDSCAPING:

STANDARD CANOPY TREES NEEDED TO SHADE AT LEAST 35% OF THE PARKING LOT AT MATURITY.
TOTAL PARKING LOT AREA = 5,380 SQ.FT.
35% = 1,883 SQ.FT.

ASSUME 1 STANDARD CANOPY TREE REACHES 50' WIDTH AT MATURITY

TOTAL SHADED AREA OF PARKING LOT FOR 3 TREES AT MATURITY = 2,340 SQ.FT.

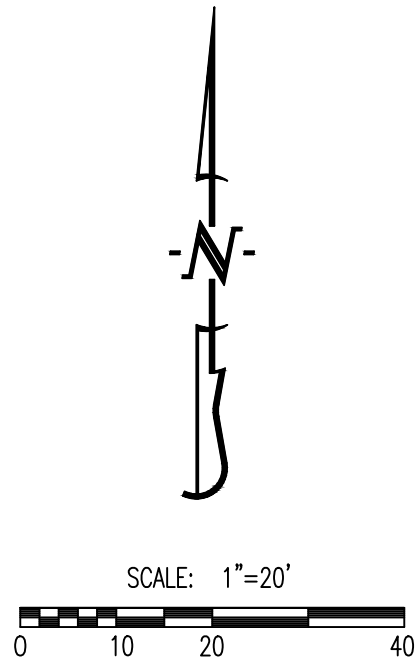
PARKING LOT LANDSCAPING PLANTING TABLE:				
SYMBOL	QUANTITY	TYPE	ALLOWABLE SPECIES	SIZE
	3	STANDARD CANOPY TREE	SYCAMORE, OAK, HICKORY, MAPLE, ETC.	2.0" CALIPER

CALCULATIONS:	
TOTAL LAND AREA:	9.40 AC
PARKING SUMMARY:	
SPACES REQUIRED:	
USE C-2 - 9,650 SQFT FLOOR SPACE	
(1 SPACE PER 1,000 SQFT):	
SPACES PROVIDED:	10 SPACES
ADA ACCESSIBLE SPACES PROVIDED:	14 SPACES 1 SPACES

GENERAL NOTES:

1) THE PAVEMENT JOINTS SHOWN ARE A GRAPHICAL REPRESENTATION OF A POSSIBLE JOINT LAYOUT. CONTRACTOR TO PROVIDE SHOP DRAWINGS WITH JOINT LAYOUT FOR APPROVAL BY ENGINEER PRIOR TO POURING OF PAVEMENT.

- LEGEND OF LABELS**
- Ⓐ PERFORM HORIZONTAL SAWING OF CURB AS REQUIRED FOR NEW DRIVEWAY APPROACH.
 - Ⓑ WIDEN EXISTING DRIVEWAY ONTO PRIVATE STREET WITH HEAVY DUTY CONCRETE AS SHOWN. REFER TO PAVEMENT CROSS SECTION ON CE 7.
 - Ⓒ CONSTRUCT HEAVY DUTY CONCRETE W/ INTEGRAL CURB WHERE SHOWN. REFER TO PAVEMENT CROSS SECTION ON CE 7.
 - Ⓓ CONSTRUCT LIGHT DUTY CONCRETE AS SHOWN. REFER TO PAVEMENT CROSS SECTION ON CE 7.
 - Ⓔ INSTALL BOLLARDS. REFER TO DETAIL ON CE 7.
 - Ⓕ PAINT 4" PARKING STALL STRIPES AS SHOWN, COLOR WHITE. TYPICAL ALL STALLS EXCEPT ADA ACCESSIBLE STALLS. REFER TO PLAN FOR WIDTH AND DEPTH OF STALLS.
 - Ⓖ CONSTRUCT ADA ACCESSIBLE PARKING AREA WITH SIGNAGE AS SHOWN. PAINT 4" STRIPE AND ACCESSIBLE SYMBOL, COLOR BLUE. PAINT HATCH AREA AS SHOWN, COLOR BLUE. CONTRACTOR TO VERIFY SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE STALLS SHALL NOT EXCEED 1:50. REFER TO DETAILS ON CE 7.
 - Ⓗ CONSTRUCT 4" THICK CONCRETE SIDEWALK AGAINST BUILDING AS SHOWN (MAXIMUM CROSS SLOPE AT 1:50). REFER TO CROSS-SECTIONS ON CE 7.
 - Ⓛ INSTALL 3/4" EXPANSION JOINT BETWEEN BUILDING AND PAVEMENT.
 - Ⓜ INSTALL 1" EXPANSION JOINT OR TYPE A ALTERNATE EXPANSION JOINT IN PAVING. REFER TO DETAIL ON CE 7.
 - Ⓚ INSTALL TYPE C SAW JOINT IN PAVEMENT (TYPICAL).
 - Ⓛ CONSTRUCT CONCRETE FLUME AS SHOWN. REFER TO DETAIL ON CE 7.
 - Ⓜ TRANSITION FROM 6" CURB TO 0" CURB. REFER TO GRADING PLAN.



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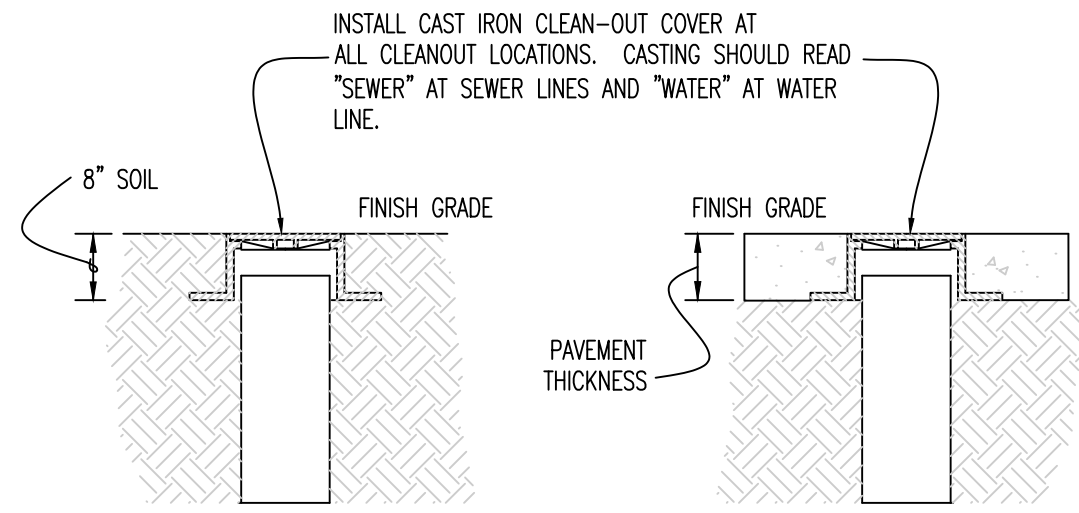
SITE PLAN

DESIGNED: ATG

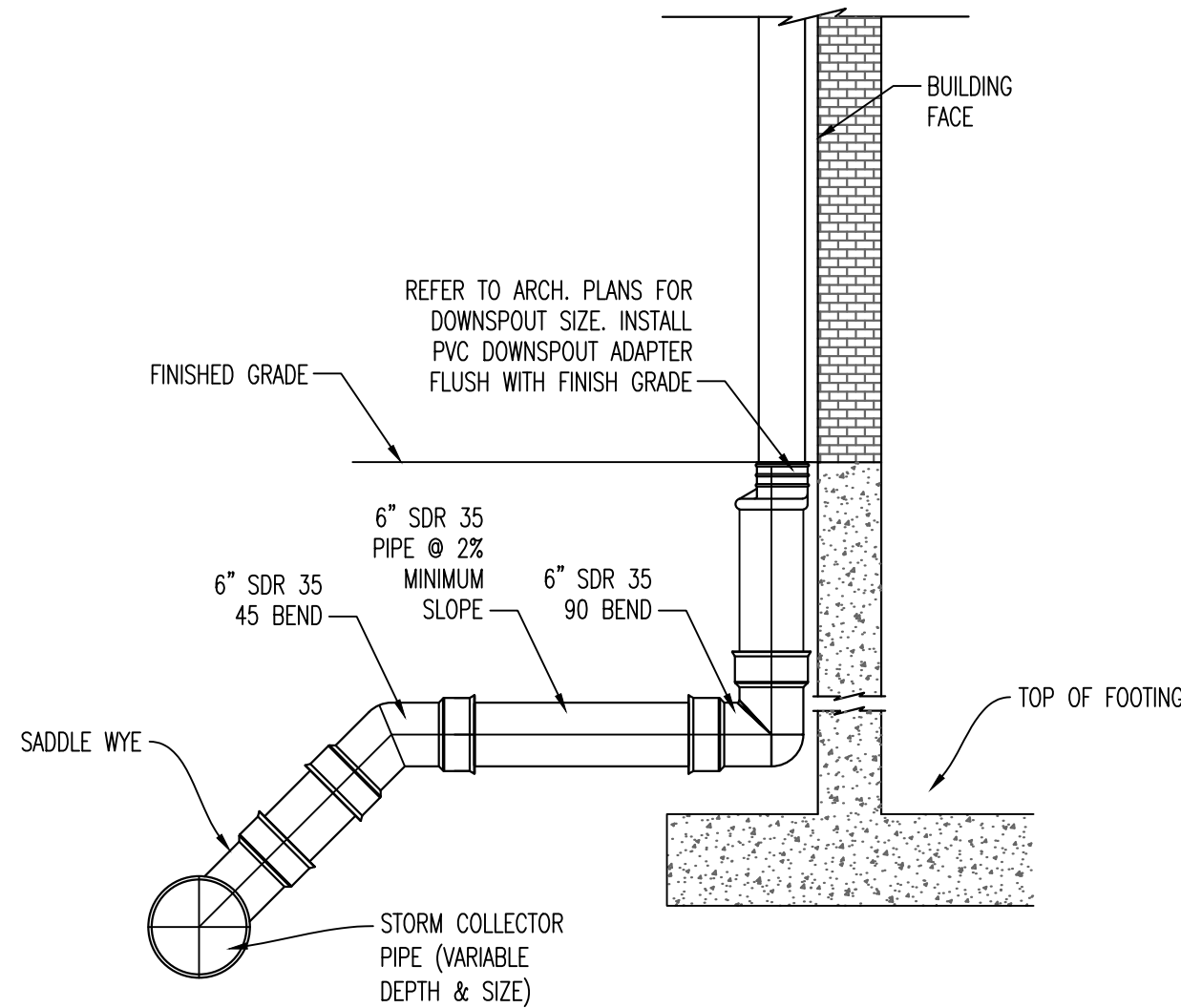
DRAWN: NMD

PROJECT NO.: 230178

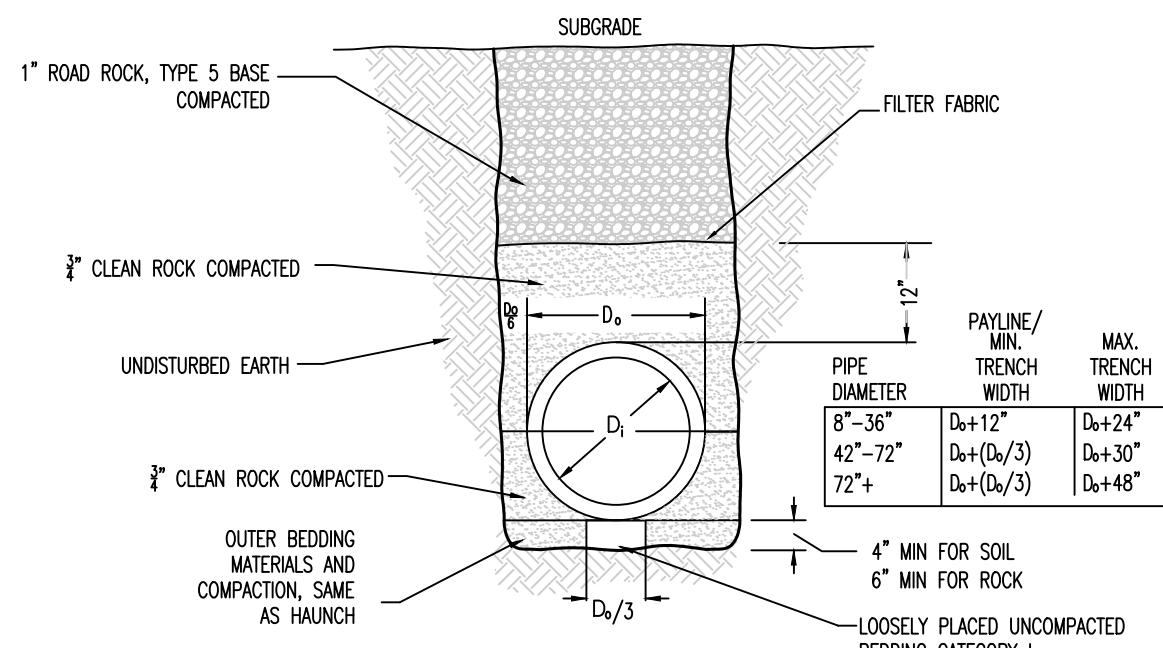
SHEET: CE 5



CLEANOUT COVERS

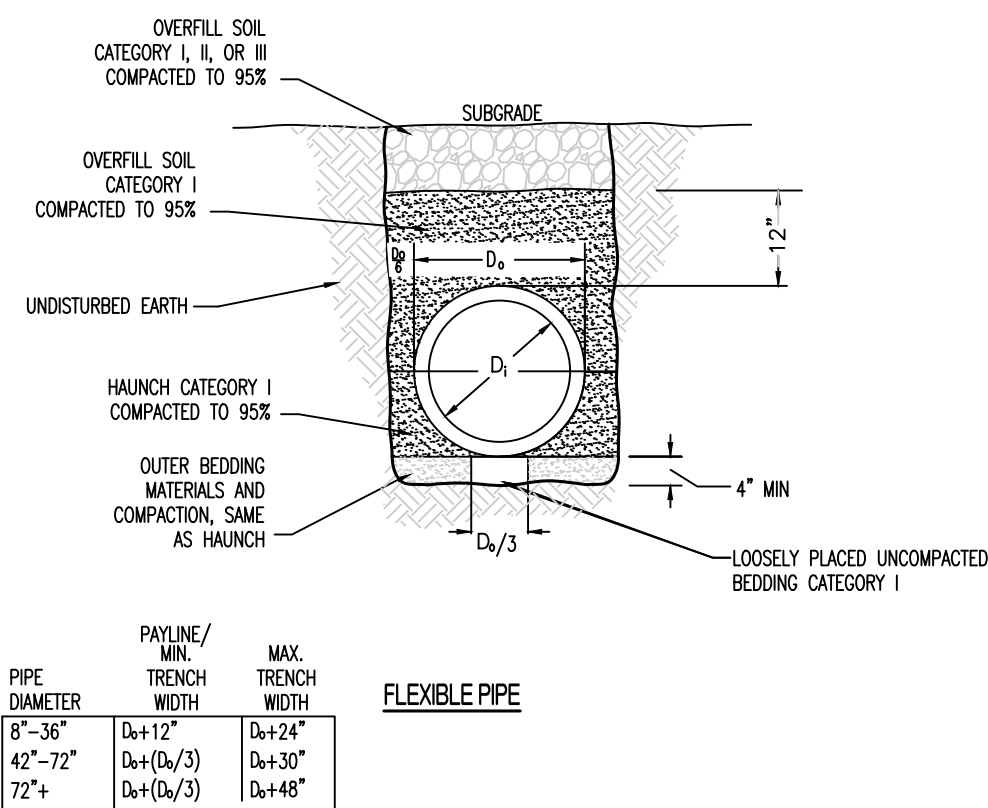


ROOF DRAIN DETAIL



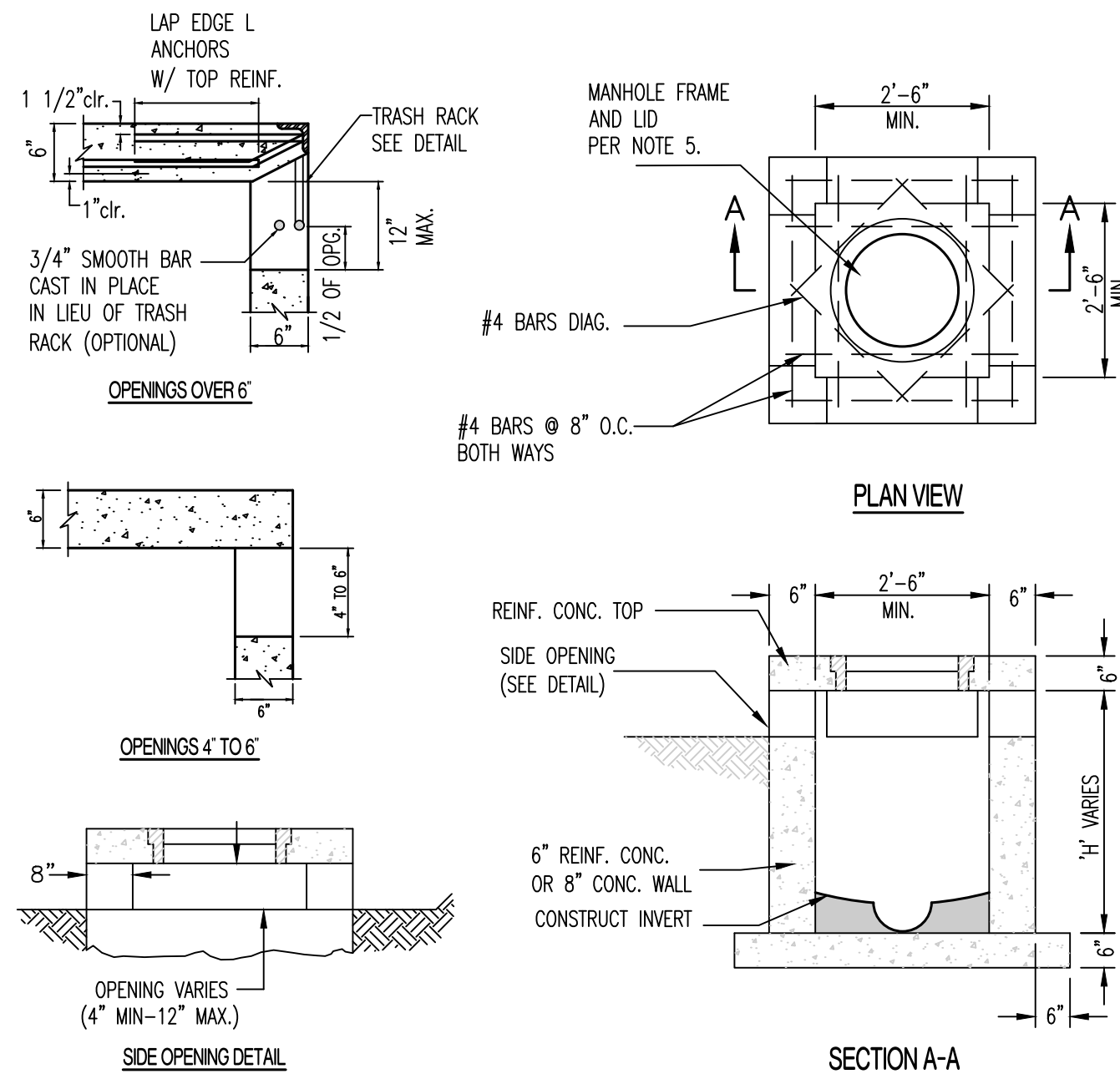
FLEXIBLE PIPE

PRIVATE PIPE EMBEDMENT (UNDER PAVEMENT)



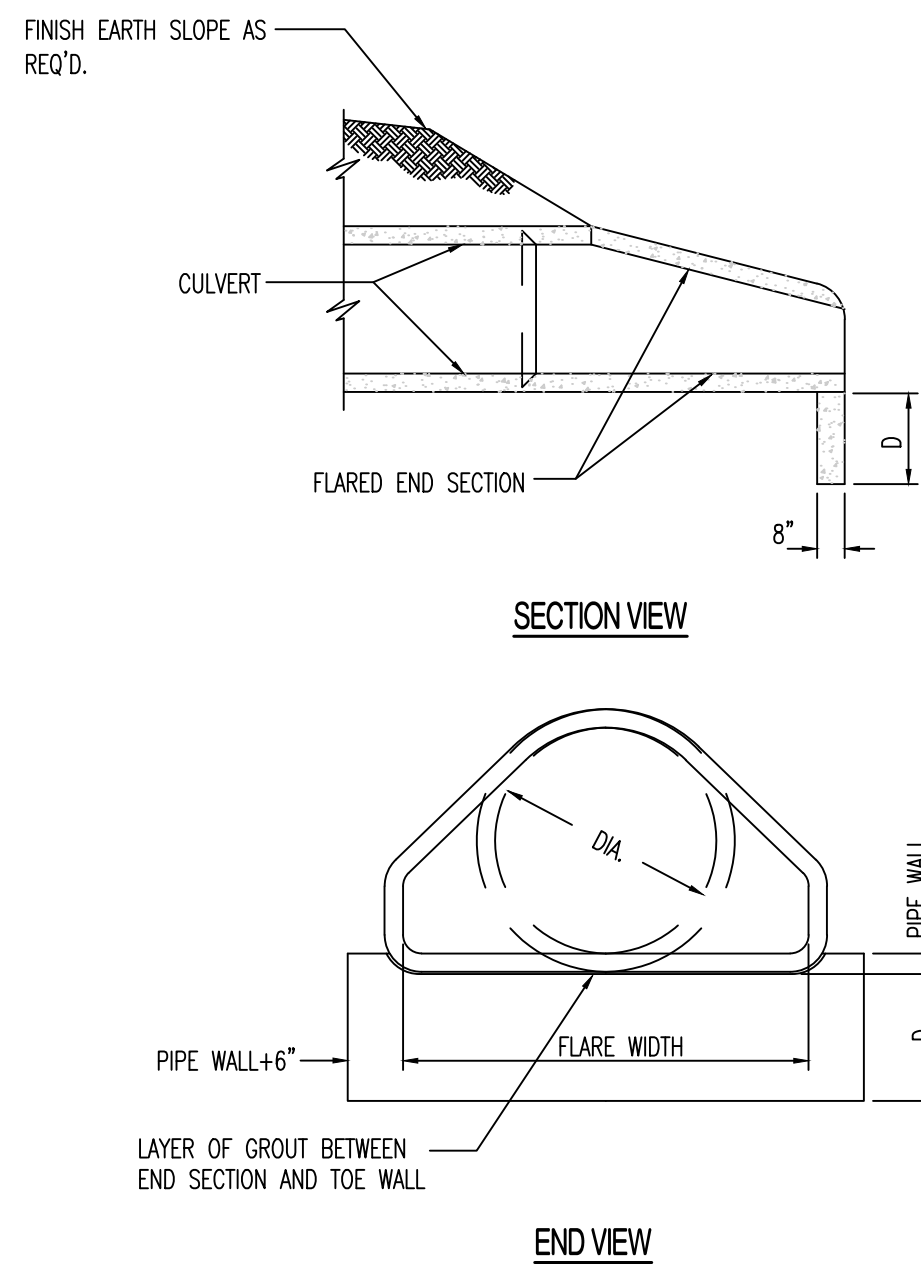
FLEXIBLE PIPE

PRIVATE PIPE EMBEDMENT (NOT UNDER PAVEMENT)



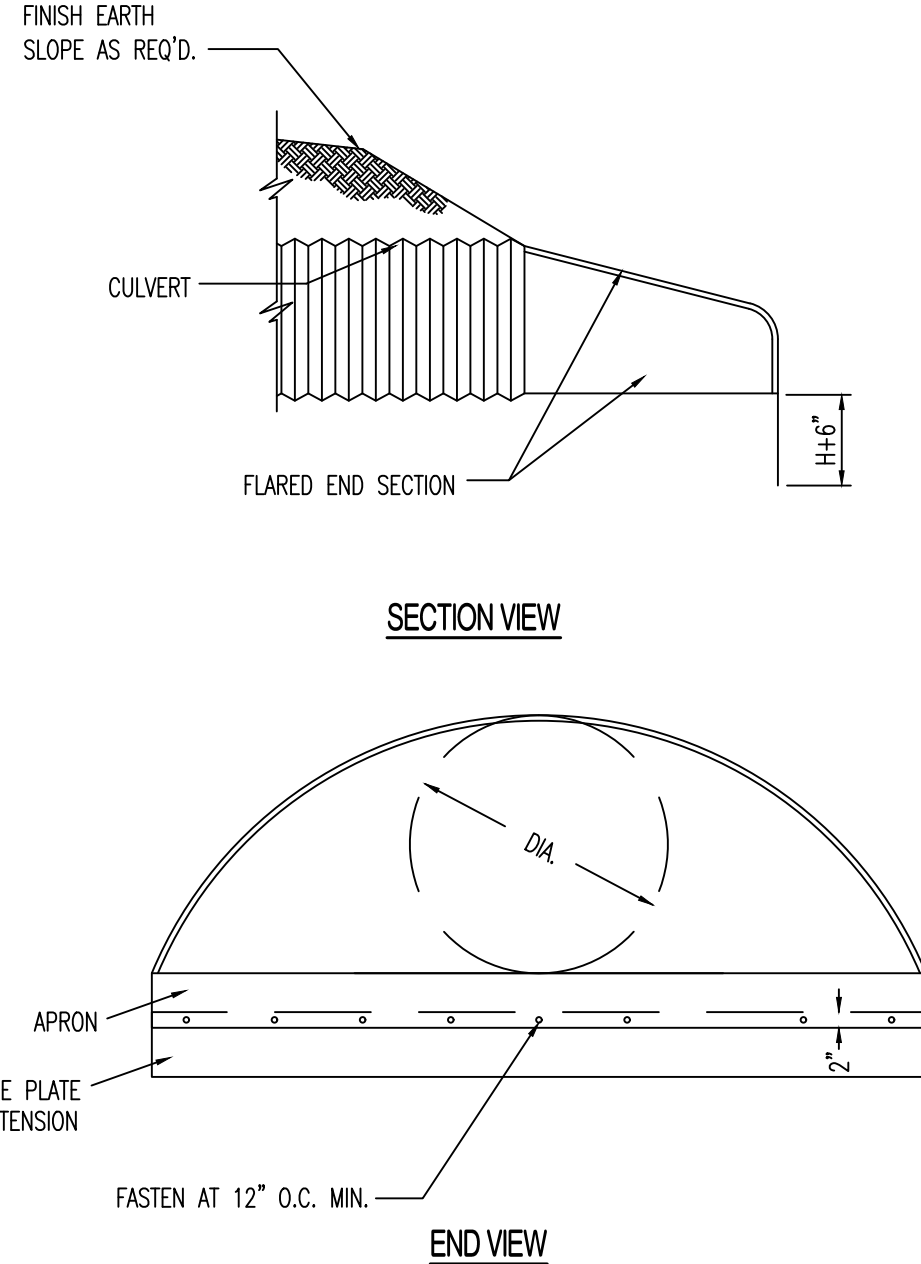
- NOTES:
1. CONCRETE SHALL BE CLASS F FOR BASES AND D FOR WALLS AND TOP.
 2. REINFORCING STEEL SHALL BE GRADE 60
 3. STRUCTURES WHERE H>8" SHALL BE REINFORCED CONCRETE (#4 BARS AT 12" CTRS, BOTH WAYS AND #4 BARS DIAGONAL AT PIPE OPENINGS)
 4. FRAME AND LID SHALL BE NEENAH R-1960-A (TYPE C LID), DEETER 1180, OR APPROVED EQUAL.
 5. SIDE OPENINGS TO BE ON ALL FOUR SIDES UNLESS NOTED OTHERWISE
 6. INSTALL TRASH RACK ON OPENINGS OVER 6"

SIDE OPENING INLET



- NOTE:
1. CONCRETE FOR TOE WALL SHALL BE CLASS E
 2. D=18" FOR PIPES WITH INSIDE DIAMETER 27" OR MORE.
 3. D=24" FOR PIPES WITH INSIDE DIAMETER FROM 24" TO 48".
 4. D=36" FOR PIPES WITH INSIDE DIAMETER 54" OR MORE.

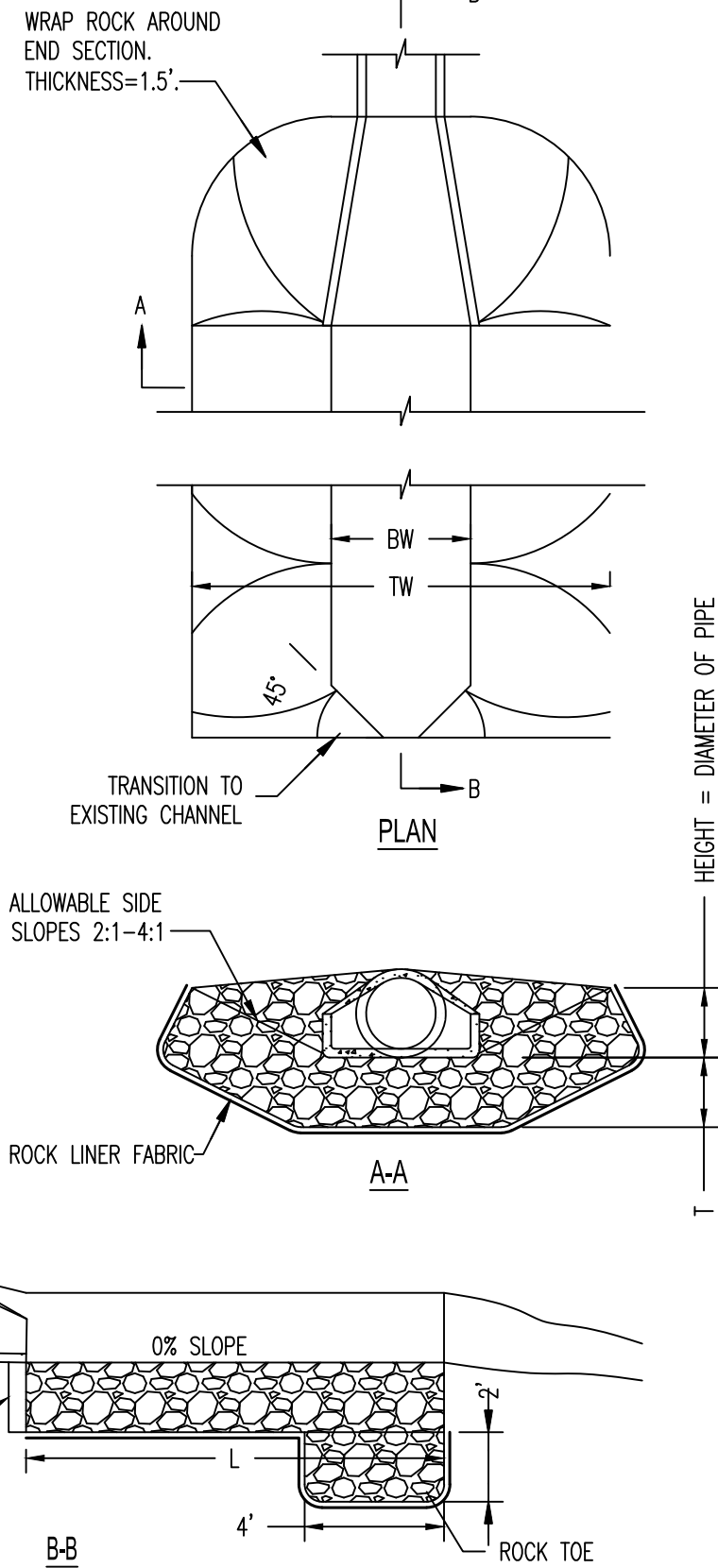
TOEWALL & END SECTION FOR RCP



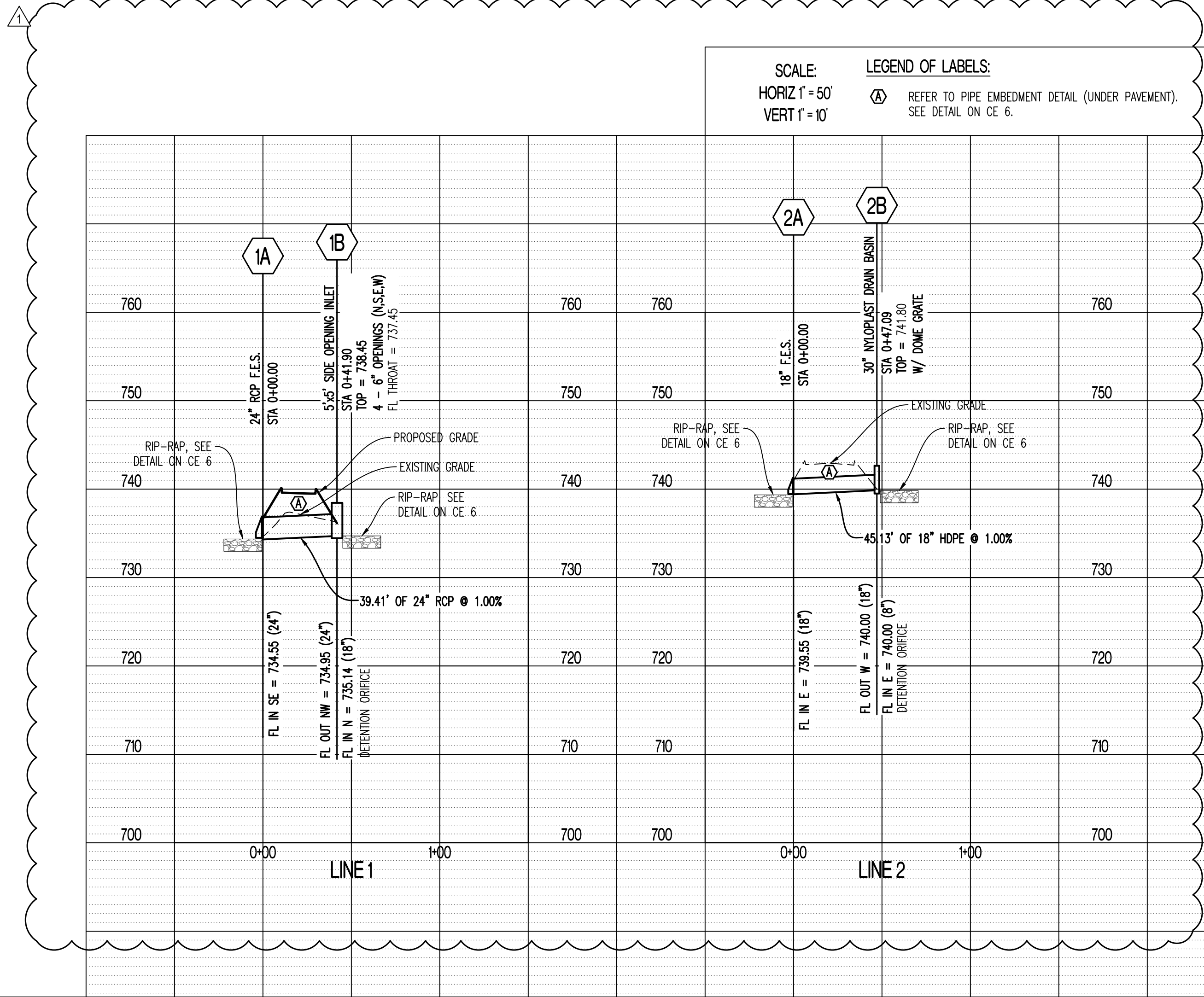
- NOTE:
1. H=6" FOR PIPES WITH INSIDE DIAMETER 24" OR LESS.
 2. H=12" FOR PIPES WITH INSIDE DIAMETER 27" OR MORE.
 3. EXTENSION PLATE SHALL BE SAME MATERIAL AS PIPE. THICKNESS SHALL BE EQUAL TO EQUIVALENT DIAMETER CMP GAUGE.
 4. APRON AND TOE PLATE SHALL BE SECURELY FASTENED WITH SPOT WELDS, BOLTS, OR RIVETS.

END SECTION FOR HDPE AND CMP

Pipe Size (in)	Maximum Pipe Slope (%)	Length L (ft)	Bottom Width BW Minimum (ft)	Top Width TW Minimum (ft)	Thickness T Minimum (ft)
12	3.50	12	4	8	2
15	2.60	15	4	9	2
18	2.00	16	4	10	2
24	1.70	20	4	12	2
30	1.40	24	6	16	2
36	1.00	28	6	18	2
42	0.80	32	6	20	3
48	0.65	36	6	22	3
54	0.55	40	8	26	3
60	0.45	44	8	28	3
72	0.40	48	8	32	3



RIP RAP WITH FILTER FABRIC



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5 STAR TRUCK WASH
MID AMERICA INDUSTRIAL COURT
BOONVILLE, COOPER COUNTY, MISSOURI

DRAWING INCLUDES:
STORM PROFILES AND DETAILS

DESIGNED: ATG
DRAWN: NMD
PROJECT NO.: 230178
SHEET:
CE 6



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DRAWING INCLUDES:	
SITE DETAILS	
DESIGNED:	ATG
DRAWN:	NMD
PROJECT NO.:	230178
SHEET:	CE 7

PAVEMENT MARKING:

PAINT FOR PARKING LOT STRIPING SHALL BE CHLORINATED RUBBER CONFORMING TO TT-11P15F EPOXY PAVEMENT MARKING MATERIAL WITHOUT GLASS BEADS. PAINT TYPE MUST BE COMPATIBLE WITH THE SURFACES TO BE PAINTED.

PAINT SHALL BE APPLIED PER THE FOLLOWING COLOR CODE: WHITE FOR STANDARD PARKING SPACE LINES AND SIDEWALK CROSSINGS. BLUE FOR ACCESSIBLE PARKING STALL AND SYMBOLS AND ASSOCIATED CROSS-HATCHED AREAS.

MATERIALS SHALL INCLUDE STANDARD COMMERCIAL GRADE MASKING MATERIALS, SCRAPERS, CLEANING SOLVENTS, AND OTHER MATERIALS REQUIRED FOR THE WORK. USE MATERIALS SPECIFIED BY MANUFACTURER'S DIRECTION LABEL ON CONTAINER.

DELIVER MATERIALS TO THE SITE IN ORIGINAL CONTAINERS WITH SEALS UNBROKEN AND LABELS INTACT. PROTECT ALL PAINT FROM FREEZING. DO NOT ALLOW PAINT TO SETTLE, CURE, OR THICKEN IN THE CONTAINER. READILY STIR WITH A PADDLE TO A SMOOTH CONSISTENCY. PAINT SHALL ARRIVE ON THE JOB CURD-MIXED EXCEPT FOR TINTING OF UNDERCOATS AND POSSIBLE TINTING.

PRIOR TO BEGINNING CLEANING OR PAINTING OPERATIONS, CONTRACTOR SHALL PROTECT ALL ITEMS OR SURFACES NOT INCLUDED IN AREA TO BE PAINTED. PROTECT VEHICLES, EQUIPMENT, STRUCTURES, OR OTHER ITEMS FROM PAINT SPATTERS, OVER SPRAY, OR DAMAGE.

CONTRACTOR SHALL PROVIDE BARRICADES AND ANY SIGNAGE NEEDED TO PROTECT ALL PAINTED AREAS FROM PEDESTRIAN AND VEHICULAR TRAFFIC UNTIL ACHIEVING SUFFICIENT DRYING TIME.

PERFORM PAINTING AS SOON AS FEASIBLE AND PRACTICAL AFTER THE FINISHING OF THE PAVEMENT OR AS DIRECTED BY THE OWNERS REPRESENTATIVE. ADEQUATE LIGHTING SHALL BE AVAILABLE AT THE TIME OF PAINTING. EXAMINE ALL SURFACES TO RECEIVE PAINT TO MAKE SURE THERE ARE NO DEFECTS IN THE SURFACE TO BE STRIPED. DO NOT PAINT OVER RUST, SCALE, GREASE, OIL, FUEL, DUST, WET PAVEMENT, OR OTHER CONDITIONS DETRIMENTAL TO PAINT ADHESION. REMOVE GREASE, OIL, OR FUEL ON ANY SURFACE BEFORE PAINTING. CORRECT ALL SURFACE DEFECTS BEFORE PAINTING. CONTRACTOR SHALL EXAMINE AREAS TO BE PAINTED. NOTIFY THE OWNERS REPRESENTATIVE IN WRITING OF CONDITIONS THAT MIGHT DELAY TIMELY COMPLETION OF THE WORK.

PAINTING SHALL NOT BE PERFORMED WHEN THE AMBIENT TEMPERATURE IS LESS THAN 55 DEGREES FAHRENHEIT, OR WHILE THE SURFACE IS DAMP. THE SURFACE MUST BE FIVE DEGREES OR MORE ABOVE THE DEW POINT TEMPERATURE DURING PAINTING OPERATIONS AND WHILE PAINT IS DRYING.

AREAS TO BE PAINTED SHALL RECEIVE ONE COAT OF PAINT NOT LESS THAN 25 MILS THICKNESS WET PER MDOOT 620.9 THROUGH 620.9.3.4.2. IN LOCATIONS REQUIRING MULTIPLE COATS, PRIOR COAT SHALL BE DRY TO MANUFACTURER'S RECOMMENDATIONS BEFORE APPLYING THE NEXT COAT.

FINISHED WORK SHALL BE UNIFORM, OF APPROVED COLOR, FREE OF RUNS, Drips, DEFECTIVE BRUSHING, SPRAYING, AND CLOGGING. PARKING LINES AND SYMBOLS SHALL BE NEAT AND WELL DEFINED. ONLY SKILLED APPLICATORS SHALL APPLY PAINT. OWNERS REPRESENTATIVE SHALL APPROVE APPLICATION TECHNIQUES.

REMOVE PAINT SPATTER FROM ADJACENT AREAS OR AREAS NOT DESIGNATED TO RECEIVE PAINT. CONTRACTOR SHALL REPAIR OR TOUCH UP ANY SURFACES IF EXPOSED TO VEHICULAR AND PEDESTRIAN TRAFFIC, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, AT NO ADDITIONAL COST TO THE OWNER. WHEN COLOR, DIRT, STAINS, EXISTING PAINT, ETC., SHOW THROUGH THE FINAL COAT, REPAINT THE SURFACE UNTIL THE FILM IS UNIFORM IN FINISH, COVERAGE, COLOR, AND APPEARANCE.

CONCRETE PAVING JOINT SEALANTS:

DELIVER MATERIALS TO PROJECT SITE IN ORIGINAL UNOPENED CONTAINERS OR BUNDLES WITH LABELS INDICATING MANUFACTURER, PRODUCT NAME AND DESIGNATION, COLOR, EXPIRATION DATE, POT LIFE, CURING TIME, AND MIXING INSTRUCTIONS FOR MULTICOMPONENT MATERIALS.

STORE AND HANDLE MATERIALS TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS TO PREVENT THEIR DETERIORATION OR DAMAGE DUE TO MOISTURE, HIGH OR LOW TEMPERATURES, CONTAMINANTS, OR OTHER CAUSES.

- DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS UNDER THE FOLLOWING CONDITIONS:
- 1. WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE LIMITS PERMITTED BY JOINT SEALANT MANUFACTURER OR ARE BELOW 40 DEG F.
 - 2. WHEN JOINT SUBSTRATES ARE WET OR COVERED WITH FROST.
 - 3. WHERE JOINT NOTIS ARE LESS THAN THOSE ALLOWED BY JOINT-SEALANT MANUFACTURER FOR APPLICATIONS INDICATED.
 - 4. WHERE CONTAMINANTS CAPABLE OF INTERFERING WITH ADHESION HAVE NOT YET BEEN REMOVED FROM JOINT SUBSTRATES.

PROVIDE JOINT SEALANTS, BACKING MATERIALS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY JOINT-SEALANT MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.

COLD-APPLIED JOINT SEALANTS ARE TO BE TYPE NS SILICONE SEALANT FOR CONCRETE: SINGLE-COMPONENT, LOW-MODULUS, NEUTRAL-CURING, NONSAG SILICONE SEALANT COMPLYING WITH ASTM D 5893 FOR TYPE NS. PRODUCTS ALLOWED ARE: CRAFTCO INC.: ROADSAVER SILICONE , DOW CORNING CORPORATION: 888, PECORA NS 301, OR APPROVED EQUAL.

CONTRACTOR TO PROVIDE JOINT-SEALANT BACKER MATERIALS THAT ARE NONSTAINING, ARE COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMER, AND OTHER JOINT FILLERS, AND ARE APPROVED FOR APPLICATIONS INDICATED BY JOINT-SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LABORATORY TESTING. ROUND BACKER RODS FOR COLD-APPLIED SEALANTS: ASTM D 5249, TYPE 3, OF DIAMETER AND DENSITY REQUIRED TO CONTROL SEALANT DEPTHAND PREVENT BOTTOM-SIDE ADHESION OF SEALANT.

PRIOR TO JOINT INSTALLATION, CONTRACTOR IS TO EXAMINE JOINTS INDICATED TO RECEIVE JOINT SEALANTS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR JOINT CONFIGURATION, INSTALLATION TOLERANCES, AND OTHER CONDITIONS AFFECTING JOINT- SEALANT PERFORMANCE. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

CLEAN OUT JOINTS IMMEDIATELY BEFORE INSTALLING JOINT SEALANTS TO COMPLY WITH JOINT-SEALANT MANUFACTURER'S WRITTEN INSTRUCTIONS.

COMPLY WITH JOINT-SEALANT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR PRODUCTS AND APPLICATIONS INDICATED, UNLESS MORE STRINGENT REQUIREMENTS APPLY.

COMPLY WITH RECOMMENDATIONS IN ASTM C 1193 FOR USE OF JOINT SEALANTS AS APPLICABLE TO MATERIALS, APPLICATIONS, AND CONDITIONS INDICATED.

INSTALL BACKER MATERIALS OF TYPE INDICATED TO SUPPORT SEALANTS DURING APPLICATION AND AT POSITION REQUIRED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS OF INSTALLED SEALANTS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY. DO NOT LEAVE GAPS BETWEEN ENDS OF BACKER MATERIALS. DO NOT STRETCH, TWIST, PUNCTURE, OR TEAR BACKER MATERIALS. REMOVE ABSORBENT BACKER MATERIALS THAT HAVE BECOME WET BEFORE SEALANT APPLICATION AND REPLACE THEM WITH DRY MATERIALS.

- INSTALL SEALANTS USING PROVEN TECHNIQUES THAT COMPLY WITH THE FOLLOWING AND AT THE SAME TIME BACKING ARE INSTALLED:
- 1. PLACE SEALANTS SO THEY DIRECTLY CONTACT AND FULLY WET JOINT SUBSTRATES.
 - 2. COMPLETELY FILL RECESSES PROVIDED FOR EACH JOINT CONFIGURATION.
 - 3. PRODUCE UNIFORM, CROSS-SECTIONAL SHAPES AND DEPTHS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY.

IMMEDIATELY AFTER SEALANT APPLICATION AND BEFORE SKINNING OR CURING BEGINS, TOOL SEALANTS ACCORDING TO REQUIREMENTS SPOCIFIED BELOW TO FORM SMOOTH, UNIFORM BEADS OF CONSTRUCTION INDICATED; TO ELIMINATE AIR POCKETS; AND TO ENSURE CONTACT AND ADHESION OF SEALANT WITH SIDES OF JOINT. REMOVE EXCESS SEALANTS FROM SURFACES ADJACENT TO JOINT.USE TOOLING AGENTS THAT ARE APPROVED IN WRITING BY JOINT-SEALANT MANUFACTURER AND THAT DO NOT DISCOLOR SEALANTS OR ADJACENT SURFACES.

PROVIDE JOINT CONFIGURATION TO COMPLY WITH JOINT-SEALANT MANUFACTURER'S WRITTEN INSTRUCTIONS, UNLESS OTHERWISE INDICATED.

PROVIDE RECESSED JOINT CONFIGURATION FOR SILICONE SEALANTS OF RECESS DEPTH AND AT LOCATIONS INDICATED.

CLEAN OFF EXCESS SEALANTS OR SEALANT SHEARS ADJACENT TO JOINTS AS THE WORK PROGRESSES BY METHODS AND WITH CLEANING MATERIALS APPROVED BY MANUFACTURERS OF JOINT SEALANTS AND OF PRODUCTS IN WHICH JOINTS OCCUR.

PROTECT JOINT SEALANTS DURING AND AFTER CURING PERIOD FROM CONTACT WITH CONTAMINATING SUBSTANCES AND FROM DAMAGE RESULTING FROM CONSTRUCTION OPERATIONS OR OTHER CAUSES SO SEALANTS ARE WITHOUT DETERIORATION OR DAMAGE AT TIME OF SUBSTANTIAL COMPLETION. IF, DESPITE SUCH PROTECTION, DAMAGE OR DETERIORATION OCCURS, CUT OUT AND REMOVE DAMAGED OR DETERIORATED JOINT SEALANTS IMMEDIATELY AND REPLACE WITH JOINT SEALANT SO INSTALLATIONS WITH REPAIRED AREAS ARE INDISTINGUISHABLE FROM THE ORIGINAL WORK.

EARTHMOVING:

CONTRACTOR TO SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.

COMPACTION REQUIREMENTS ARE AS FOLLOWS:

- 1. UNDER STEPS, PAVEMENTS, AND WALKWAYS, 95 PERCENT STANDARD PROCTOR MINIMUM DENSITY, ASTM D 698.
- 2. UNDER LAWNS OR UNPAVED AREAS, 85 PERCENT, ASTM D 698.

GRADING TOLERANCES OUTSIDE BUILDING LINES ARE AS FOLLOWS:

- 1. LAWNS, UNPAVED AREAS, AND WALKS, PLUS OR MINUS 1 INCH.
- 2. PAVEMENTS, PLUS OR MINUS 1/2 INCH.
- 3. ALL ADA ROUTES AND PARKING ARE TO MEET ADA REQUIREMENTS AT ALL TIMES.

ALL ACTIVITIES WILL BE CONTAINED WITHIN CONSTRUCTION BOUNDARIES INDICATED ON SITE PLAN. SPECIFIED EXCAVATION REQUIREMENTS, PRECAUTIONS, AND PROTECTIVE SYSTEMS WILL BE OBSERVED AT ALL TIMES.

MOVEMENT OF TRUCKS AND EQUIPMENT ON OWNER'S PROPERTY WILL BE IN ACCORDANCE WITH OWNER'S INSTRUCTIONS.

TOPSOIL WILL BE STRIPPED FROM THE CONSTRUCTION SITE, STOCKPILED, AND RESPREAD AT AND OF PROJECT. EXCESS SHALL BE DISPOSED OF LEGALLY OFF SITE.

TRENCHES SHALL NOT BE BACKFILLED UNTIL ALL REQUIRED TESTS ARE COMPLETED AND THE UTILITY SYSTEMS, AS INSTALLED, ARE IN OPERATING CONDITION.

EXCAVATION IS UNCLASSIFIED AND INCLUDES EXCAVATION TO SUBGRADE REGARDLESS OF MATERIALS ENCOUNTERED. REPAIR EXCAVATIONS BEYOND ELEVATIONS AND DIMENSIONS INDICATED AS FOLLOWS:

- 1. AT STRUCTURE: CONCRETE OR COMPACTED STRUCTURAL FILL.
- 2. ELSEWHERE: BACKFILL AND COMPACT AS DIRECTED.

MAINTAIN STABILITY OF EXCAVATIONS; CONTRACTOR TO BE RESPONSIBLE FOR DESIGN AND COORDINATION OF SHORING AND BRACING AS REQUIRED. PREVENT SURFACE AND SUBSURFACE WATER FROM ACCUMULATING IN EXCAVATIONS. STOCKPILE SATISFACTORY MATERIALS FOR REUSE, ALLOW FOR PROPER DRAINAGE AND DO NOT STOCKPILE MATERIALS WITHIN DRIP LINE OF TREES TO REMAIN.

COMPACT MATERIALS AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 698 BY AERATION OR WETTING TO THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY:

- 1. STRUCTURE, PAVEMENT, WALKWAYS: SUBGRADE AND EACH FILL LAYER TO 95% (-2%+4%) OF STANDARD PROCTOR MAXIMUM DRY DENSITY TO SUITABLE DEPTH. COMPACTION TESTING SHALL BE PERFORMED IMMEDIATELY PRIOR TO THE PLACEMENT OF REINFORCING STEEL AND NEW PAVING MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING TESTING WITH OWNERS DESIGNATED TESTING AGENCY.
- 2. UNPAVED AREAS: TOP 6" OF SUBGRADE AND EACH FILL LAYER TO 90% MAXIMUM DRY DENSITY.
- 3. A PROOF-ROLL SHALL BE REQUIRED OF THE SUBGRADE PRIOR TO PLACEMENT OF THE BASE COURSE. PROOF ROLLING SHALL CONSIST OF PASSING A LOADED, 20-TON, TANDUM DUMP TRUCK OVER THE PREPARED SUBGRADE SOIL WITH A MAXIMUM ALLOWABLE DISPLACEMENT OF 1". ANY AREAS THAT DISPLACE MORE THAN 1" SHALL BE COMPACTED UNTIL THIS CRITERION IS MET, OR THOSE AREAS MAY BE EXCAVATED AND BACKFILLED WITH COMPACTED TYPE 1 AGGREGATE USED FOR BASE MATERIAL. ALL PROOF ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.
- 4. CUT AREAS UNDER PROPOSED ASPHALT OR CONCRETE PAVEMENTS SHALL BE CUT AND COMPACTED. AFTER GRADING TO SUBGRADE ELEVATION, SCARIFY THE TOP SIX INCHES OF THE SUB-BASE AND COMPACT AS OUTLINED ABOVE.

PLACE ACCEPTABLE MATERIALS IN LAYERS NOT MORE THAN 8" LOOSE DEPTH FOR MATERIALS COMPACTED BY HEAVY EQUIPMENT AND NOT MORE THAN 4" LOOSE DEPTH FOR MATERIALS COMPACTED BY HAND EQUIPMENT TO SUBGRADES INDICATED AS FOLLOWS:

- 1. STRUCTURAL FILL: USE UNDER FOUNDATIONS, SLABS OR GRADE IN LAYERS AS INDICATED.
- 2. DRAINAGE FILL: USE UNDER DESIGNATED BUILDING SLABS, AT FOUNDATION DRAINAGE AND ELSEWHERE AS INDICATED.
- 3. LANDSCAPE AREA FILL:
 - 3.1. ALL SUB-GRADE AREAS SHALL BE "RIPPED" TO A MINIMUM 6" DEEP AND A MAXIMUM OF 12" APART IN OPPOSITE DIRECTIONS WITH MINIMAL TRAFFIC TO FOLLOW.
 - 3.2. ANY FILL SOIL WITHIN 36" OF FINISHED GRADE IN LAWN AND PLANTER AREAS SHALL BE COHESIVE SOILS IN SOIL CLASSIFICATIONS GROUPS ML, CL, CH OR A COMBINATION THEREOF; FREE OF ROCK OR GRAVEL LARGER THAN 1" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIAL, VEGETATION AND OTHER DELETERIOUS MATTER.
- 4. SUB-BASE MATERIAL: USE UNDER PAVEMENT, WALKS, STEPS, PIPING AND CONDUIT.

GRADE TO WITHIN 1/2" ABOVE OR BELOW REQUIRED SUBGRADE AND WITHIN A TOLERANCE OF 1/2" IN 10'.

PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION. RECOMPACT AND REGRADE SETTLED, DISTURBED AND DAMAGED AREAS AS NECESSARY TO RESTORE QUALITY, APPEARANCE, AND CONDITION OF WORK.

CONTROL EROSION TO PREVENT RUNOFF INTO SEWERS OR DAMAGE TO SLOPED OR FLAT AREAS.

CONTROL DUST TO PREVENT HAZARDS TO ADJACENT PROPERTIES AND VEHICLES. IMMEDIATELY REPAIR OR REMEDY DAMAGE CAUSED BY DUST INCLUDING AIR FILTERS IN EQUIPMENT AND VEHICLES. CLEAN SOLID SURFACES.

DISPOSAL OF EXCAVATION WASTE AND UNSUITABLE MATERIALS SHALL BE THE RESPONSIBILITY OF THE SITE WORK CONTRACTOR. NO SPECIFIC OR PRE-APPROVED LOCATION IS BEING PROVIDED BY THE OWNER.

SITE CLEARING & DEMOLITION:

IT IS THE INTENT THAT THE DEMOLITION BE COMPLETE AND ADEQUATE FOR THE INTENDED PURPOSE. THIS WORK SHALL INCLUDE THE REMOVAL OF ALL ITEMS, WHETHER IN VIEW OR HIDDEN UNDERNEATH THE SURFACE OF THE GROUND, REGARDLESS OF WHETHER SHOWN ON THE DRAWINGS OR ENCOUNTERED DURING CONSTRUCTION.

CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING MATERIALS, METHODS OF WORK, AND DISPOSAL OF EXCESS WASTE MATERIALS.

ERECT BARRIERS TO PROTECT PERSONNEL, STRUCTURES AND UTILITIES REMAINING INTACT.

PROTECT ALL EXISTING OBJECTS INTENDED TO REMAIN. IN CASE OF DAMAGE, MAKE REPAIRS OR REPLACEMENTS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.

MINIMIZE INTERFERENCE WITH ROADS, STREETS, DRIVEWAYS, SIDEWALKS, AND ADJACENT FACILITIES.

DO NOT CLOSE OR OBSTRUCT STREETS, SIDEWALKS, ALLEYS OR PASSAGeways WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION.

IF CLOSURE IS PERMITTED, PROVIDE SIGNAGE INDICATING CLOSURE AND SIGNAGE TO DIRECT TRAFFIC TO ALTERNATE ROUTE.

MOISTEN SURFACES AS REQUIRED TO PREVENT DUST FROM BEING A NUISANCE TO THE PUBLIC, NEIGHBORS, AND CONCURRENT PERFORMANCE OF OTHER WORK ON THE SITE.

THE CONTRACTOR SHALL LOCATE EXISTING UTILITY LINES AND SERVICES TRAVERSING THE SITE AND DETERMINE THE REQUIREMENTS FOR THEIR PROTECTION. THE CONTRACTOR SHALL PRESERVE ACTIVE UTILITIES ON THE SITE THAT ARE DESIGNATED TO REMAIN.

BEFORE STARTING SITE OPERATIONS, THE CONTRACTOR SHALL DISCONNECT OR ARRANGE FOR THE DISCONNECTION OF ALL UTILITY SERVICES DESIGNATED TO BE REMOVED. THE CONTRACTOR SHALL PERFORM ALL SUCH WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY OR AGENCY INVOLVED.

IN REMOVING PAVEMENT, CURB AND GUTTER, SIDEWALKS, ETC., WHERE A PORTION IS LEFT IN PLACE, REMOVAL SHALL BE TO AN EXISTING JOINT OR TO A JOINT SAWED TO A MINIMUM DEPTH OF 2" WITH A TRUE SAW LINE AND A VERTICAL FACE. REMOVE SUFFICIENT PAVEMENT TO PROVIDE FOR PROPER GRADE AND CONNECTIONS IN THE NEW WORK REGARDLESS OF ANY LIMITS INDICATED ON THE DRAWING.

EXISTING CASTINGS AND CULVERTS, IF SALVAGEABLE AND REMOVED INTACT, REMAIN THE PROPERTY OF THE CONTRACTOR.

ALL SEWERS AND DRAINAGE PIPES, WHICH HAVE BEEN OR ARE TO BE ABANDONED, SHALL BE PERMANENTLY SEALED AT THE ENDS WITH BULKHEADS CONSISTED OF CONCRETE, HAVING A MINIMUM THICKNESS OF 8".

ABANDON STORM OR SANITARY SEWER STRUCTURES BY BREAKING THE CONCRETE BOTTOM OF THE STRUCTURE INTO PIECES NO LARGER THAN 12" IN ANY DIRECTION AND REMOVING THE TOP OF THE STRUCTURE TO 3" BELOW FINISHED GRADE. PLUG ALL PIPES WITH CONCRETE AND FILL STRUCTURE WITH 1" CLEAN GRAVEL.

ALL DEBRIS INCLUDING PAVEMENTS SHALL BE DISPOSED OF OFF-SITE.

DO NOT STORE OR BURN MATERIALS ON-SITE UNLESS PERMITTED BY THE GOVERNING JURISDICTION.

MATERIAL ACQUIRED THROUGH DEMOLITION, OTHER THAN THOSE REQUIRED TO COMPLETE THE CONSTRUCTION PROJECT AND DESIGNATED FOR RETURN TO OWNER, WILL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REMOVED FROM THE SITE. THE MATERIAL WILL BE DISPOSED OF IN A LEGAL MANNER.

THE CONTRACTOR'S OPERATIONS SHALL BE RESTRICTED TO THOSE AREAS INSIDE THE CONSTRUCTION LIMITS INDICATED ON THE DRAWINGS. IF LIMITS ARE NOT INDICATED, RESTRICT WORK TO THE OWNER'S PROPERTY, EASEMENT, OR PUBLIC RIGHTS-OF-WAY.

COMPLETE WORK WITHIN PUBLIC RIGHTS-OF-WAY UNDER THE PERMISSION OF THE GOVERNING AGENCY.

THE CONTRACTOR IS RESPONSIBLE FOR THE ADJUSTMENT OF ALL MANHOLES, CASTINGS, WATER VALVES IRRIGATION BOXES, CLEAN OUTS AND ETC. WITHIN THE GRADING LIMITS TO MATCH THE FINISHED SURFACE. ADJUSTMENTS SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND THE COST FOR ALL ADJUSTMENTS SHALL BE INCIDENTAL TO CONSTRUCTION UNLESS NOTED AS A BID ITEM. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO UTILITY STRUCTURES AND APPURTENANCES THAT OCCURS DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

WATER SERVICE PIPING:

ALL CONSTRUCTION SHALL COMPLY WITH STANDARDS OF MISSOURI DEPARTMENT OF NATURAL RESOURCES FOR POTABLE-WATER-SERVICE PIPING, INCLUDING MATERIALS, INSTALLATION, TESTING, AND DISINFECTION. THEY SHALL ALSO COMPLY WITH ASTM F 645 FOR SELECTION, DESIGN, AND INSTALLATION OF THERMOPLASTIC WATER PIPING. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY.

PREPARATION FOR TRANSPORT, PREPARE VALVES, INCLUDING YARD HYDRANTS, ACCORDING TO THE FOLLOWING:

- 1. ENSURE THAT VALVES ARE DRY AND INTERNALLY PROTECTED AGAINST RUST AND CORROSION.
- 2. PROTECT VALVES AGAINST DAMAGE TO THREADED ENDS AND FLANGE FACES.
- 3. SET VALVES IN BEST POSITION FOR HANDLING. SET VALVES CLOSED TO PREVENT RATTLING.

DURING STORAGE: USE PRECAUTIONS FOR VALVES, INCLUDING FIRE HYDRANTS, ACCORDING TO THE FOLLOWING:

- 1. DO NOT REMOVE END PROTECTORS UNLESS NECESSARY FOR INSPECTION, THEN REINSTALL FOR STORAGE.
- 2. PROTECT FROM WEATHER. STORE INDOORS AND MAINTAIN TEMPERATURE HIGHER THAN AMBIENT DEW-POINT TEMPERATURE. SUPPORT OFF THE GROUND OR PAVEMENT IN WATERIGHT ENCLOSURES WHEN OUTDOOR STORAGE IS NECESSARY.

USE SLING TO HANDLE VALVES AND FIRE HYDRANT IF SIZE REQUIRES HANDLING BY CRANE OR LIFT. RIG VALVES TO AVOID DAMAGE TO EXPOSED PARTS. DO NOT USE HANDWHEELS OR STEMS AS LIFTING OR RIGGING POINTS.

DELIVER PIPING WITH FACTORY-APPLIED END CAPS. MAINTAIN END CAPS THROUGH SHIPPING, STORAGE, AND HANDLING TO PREVENT PIPE-END DAMAGE AND TO PREVENT ENTRANCE DIRT, DEBRIS, AND MOISTURE.

PROTECT STORED PIPING FROM MOISTURE AND DIRT. ELEVATE ABOVE GRADE. DO NOT EXCEED STRUCTURAL CAPACITY OF PIPE WHEN STORING INSIDE. PROTECT FLANGES, FITTINGS, AND SPECIALTIES FROM MOISTURE AND DIRT. STORE PLASTIC PIPING PROTECTED FROM DIRECT SUNLIGHT. SUPPORT TO PREVENT SAGGING AND BENDING.

PIPING UP TO 2" IN SIZE SHALL BE HIGH-DENSITY POLYETHYLENE (HDPE). SD89 C3S PREMIUM GRADE PIPE, AWWA C301, ASTM D3035, NSF 14 AND 61, 200 PSI PRESSURE RATING.

PLASTIC PIPE-FLANGE GASKET, BOLTS, AND NUTS: TYPE AND MATERIAL RECOMMENDED BY PIPING SYSTEM MANUFACTURER, UNLESS OTHERWISE INDICATED.

REFER TO "EARTH MOVING" FOR EXCAVATING, TRENCHING, AND BACKFILLING.

USE PIPE, FITTINGS, AND JOINING METHODS FOR PIPING SYSTEMS ACCORDING TO THE FOLLOWING APPLICATIONS.

- 1. TRANSITION COUPLINGS AND SPECIAL FITTINGS WITH PRESSURE RATINGS AT LEAST EQUAL TO PIPING PRESSURE RATING MAY BE USED, UNLESS OTHERWISE INDICATED.
- 2. DO NOT USE FLANGES OR UNIONS FOR UNDERGROUND PIPING.
- 3. FLANGES, UNIONS, GROOVED-END-PIPE COUPLINGS, AND SPECIAL FITTING MAY BE USED, INSTEAD OF JOINTS INDICATED, ON ABOVEGROUND PIPING AND PIPING IN VAULTS.

TRENCH BOTTOM SHALL BE GRADED TO PROVIDE A SMOOTH, FIRM, STABLE, AND ROCK-FREE FOUNDATION THROUGHOUT THE LENGTH OF THE PIPING. ALL ROCK GREATER THAN ONE INCH IN DIAMETER FOUND IN THE TRENCH SHALL BE REMOVED FOR A DEPTH OF SIX INCHES BELOW THE BOTTOM OF THE PIPE AND REPAIRED WITH SUIABLE BEDDING MATERIAL. UNSUITABLE, SOFT, AND UNSUITABLE MATERIALS SHALL BE REMOVED AT THE SURFACE UPON WHICH PIPES ARE TO BE LAID AND BACKFILL WITH CRUSHED STONE AS INDICATED ON THE DRAWINGS. LAYERS OF CRUSHED STONE SHALL BE INSTALLED IN THE BOTTOM OF TRENCH AS INDICATED ON THE DRAWINGS. SHAPE STONE LAYER TO FIT BOTTOM OF PIPING. DIG BELL HOLES AT EACH PIPE JOINT TO RELIEVE THE BELLS OF ALL LOADS AND TO ENSURE CONTINUOUS BEARING OF THE PIPE BARREL ON THE FOUNDATION.

PIPE SEPARATION SHALL BE AS FOLLOWS:

- 1. MAINTAIN AT LEAST A TEN FOOT (10') HORIZONTAL SEPARATION OF WATER MAINS FROM ANY EXISTING OR PROPOSED SANITARY SEWER. THE DISTANCE MUST BE MEASURED EDGE TO EDGE. INSTALLATION OF THE WATER MAIN CLOSER TO A SANITARY SEWER IS ACCEPTABLE WHERE THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE (1) SIDE OF THE SANITARY SEWER AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST EIGHTEEN INCHES (18") ABOVE THE TOP OF THE SANITARY SEWER.
- 2. PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN INCHES (18") BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SANITARY SEWER WHERE WATER MAINS CROSS THE SANITARY SEWER MAINS. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SANITARY SEWER. AT CROSSLINGS, ONE (1) FULL LENGTH OF WATER PIPE MUST BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SANITARY SEWER LINE AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SANITARY SEWER PIPES MAY BE REQUIRED.
- 3. PROVIDE AT LEAST A TEN-FOOT (10') HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER FORCE MAINS. THERE SHALL BE AN EIGHTEEN-INCH (18") VERTICAL SEPARATION AT CROSSLINGS.
- 4. LOCATE WATER MAINS SO THAT THEY DO NOT PASS THROUGH OR COME IN CONTACT WITH ANY SANITARY SEWER MANHOLE.

INSTALLATION OF PIPE AND PIPE FITTINGS:

- 1. PVC (POLYVINYL CHLORIDE) PIPE: INSTALL IN ACCORDANCE WITH AWWA C905.
- 2. ALL DUCTILE IRON PIPE, FITTINGS, VALVES, BELL END RESTRAINTS, ETC. SHALL BE WRAPPED WITH A POLYETHYLENE COVER CONFORMING TO AWWA C105, AND INSTALLED PER AWWA C600.
- 3. PIPE SHALL BE INSTALLED IN CLEAN CONDITION, AND SHALL NEVER BE LAID IN TRENCHES WITH STANDING WATER. THE TRENCH SHALL BE DewaterED DURING INSTALLATION OF THE WATER LINE. OPEN PIPE ENDS SHALL BE PROTECTED WITH A HARD CAP OR INFLATABLE PLUG AT THE END OF THE WORK DAY. NO PLYWOOD OR DUTTAPE COVERINGS WILL BE ALLOWED.

BACKFILL:

- 1. UNDER PIPE: ALL BACKFILL UNDER THE BARREL OF THE PIPE SHALL BE FREE FROM DEBRIS, ORGANIC MATTER, AND STONES LARGER THAN ONE INCH, AND SHALL BE TAMPED INTO PLACE. SAND OR CRUSHED STONE AGGREGATE (95% PASSING A 1/2" SCREEN BUT NOT MORE THAN 10% PASSING A #200 SIEVE) ARE ACCEPTABLE SUBSTITUTES FOR SOIL.
- 2. ADJACENT TO AND TOP OF PIPE: THE FIRST ONE FOOT OF BACKFILL OVER THE TOP OF PIPE SHALL BE 3/4-INCH MINUS WASTE ROCK WITH FINES" UNCLEANED CRUSHED STONE AGGREGATE OR SUITABLE SOIL. BACKFILL SHALL BE FREE OF DEBRIS, BRUSH, ROOTS AND STONES OR RUBBLE MORE THAN ONE INCH.
- 3. ROUGH FINAL GRADING OF SUBGRADE AND THE PLACEMENT OF FINAL TOPSOIL SHALL BE DETAILED ON THE DRAWINGS.
- 4. ALL SIDEWALKS, PAVING, ETC. WHICH ARE REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND SHALL MATCH EXISTING.

IDENTIFICATION

- 1. INSTALL CONTINUOUS PLASTIC UNDERGROUND WARNING TAPE DURING BACK-FILLING OF TRENCH FOR UNDERGROUND WATER PIPING. TAPE SHALL BE LOCATED TWENTY-FOUR (24) INCHES ABOVE PIPE, DIRECTLY OVER EACH WATER LINE.

BURY PIPING WITH DEPTH OF COVER OVER TOP AT LEAST 42 INCHES (750 MM), WITH TOP AT LEAST 12 INCHES (300 MM) BELOW LEVEL OF MAXIMUM FROST PENETRATION, AND ACCORDING TO THE FOLLOWING:

- 1. UNDER DRIVEWAYS: WITH AT LEAST 42 INCHES (910 MM) COVER OVER TOP
- 2. IN LOOSE GRAVELLY SOIL AND ROCK: WITH AT LEAST 12 INCHES (300 MM) ADDITIONAL COVER.

CONCRETE:

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 308 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- 1. CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:
 - FOUNDATIONS.....3,000 PSI
 - CAST-IN-PLACE WALLS.....3,500 PSI
 - FLOOR SLAB.....4,000 PSI
 - EXTERIOR SLABS, WALLS AND CURBS.....4,000 PSI
- 2. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
- 3. CHLORIDE- BASED ADMIXTURES ARE PROHIBITED IN ALL CONCRETE.
- 4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
- 5. ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION.
- 6. CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- 7. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4 +/- 1" (ASTM C- 143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.
- 8. CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR BIDDING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWEL FINISHED FLOORS TO EXCEED 3%.
- 9. SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.
- 10. READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
- 11. CONCRETE WORK EXECUTION
 - A. CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
 - B. POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
 - CAST AGAINST AND EXPOSED TO EARTH.....3 INCHES
 - EXPOSED TO EARTH OR WEATHER.....2 INCHES
 - NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH.....1 1/2 INCHES
 - C. PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODGING AGGREGATE.
 - D. STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
 - E. CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.
- 12. FLUNT AND CHERT WILL BE LIMITED TO 1% MAXIMUM, BY WEIGHT OF THE COARSE AGGREGATE, IN ALL EXPOSED CONCRETE. (CAST-IN-PLACE OR PRECAST). LIGNITE WILL BE LIMITED TO 0.5% BY WEIGHT OF THE FINE AGGREGATE IN ALL EXPOSED CONCRETE.

SANITARY SEWER LATERAL AND CONNECTION TO MAIN:

SUBMITTALS: PIPE AND FITTINGS, NON-PRESSURE AND PRESSURE COUPLINGS

DELIVERY, STORAGE, AND HANDLING: DO NOT STORE PLASTIC MANHOLES, PIPE, AND FITTINGS IN DIRECT SUNLIGHT. PROTECT PIPE, PIPE FITTINGS, AND SEALS FROM DIRT AND DAMAGE. HANDLE MANHOLES ACCORDING TO MANUFACTURER'S WRITTEN RIGGING INSTRUCTIONS.

DO NOT INTERRUPT SEWER SERVICE TO OTHER CONNECTED FACILITIES.

SEWER LATERAL PIPING SHALL BE A MINIMUM OF 4" DIA.

PIPE AND FITTINGS FOR PRIVATE SERVICE LATERALS THAT CONNECT TO THE PUBLIC SEWER MAIN AT A DEPTH OF 15 FEET OR LESS SHALL AT A MINIMUM BE SD26 35 SOLID WALL PVC SEWER PIPE AND SHALL CONFORM TO ASTM D-3034. PIPE AND FITTINGS FOR PRIVATE SERVICE LATERALS THAT CONNECT TO THE PUBLIC SEWER MAIN AT A DEPTH DEEPER THAN 15 FEET BUT LESS THAN 20 FEET SHALL AT A MINIMUM BE SD26 26 HEAVY WALL PVC GRAVITY SEWER PIPE AND CONFORM TO ASTM D-3034.

SERVICE CONNECTIONS SHALL NOT BE WITHIN FIVE (5) FEET OF A MANHOLE OR CLEANOUT OR DIRECTLY INTO A CLEANOUT.

CLEANOUTS: CLEANOUTS ARE REQUIRED ON SERVICE LINES OUTSIDE A BUILDING FOOTPRINT AND AT HORIZONTAL OR VERTICAL BENDS IN A SERVICE LINE. THE DEFLECTION SHOULD UTILIZE A WYE WITH THE CLEANOUT AS AN UPSTREAM EXTENSION OF THE DOWNSTREAM LINE'S ALIGNMENT. CLEANOUT CAP MATERIAL SHALL BE CAST IRON. FRAME AND CASTING SHALL BE NEENAH R-1976, DEETER 1830, OR EQUAL. PVC SHALL NOT EXTEND ABOVE GRADE.

TRACE WIRE & TEST STATIONS: TRACER WIRE SHALL BE #14 AWG SOLID, STEEL CORE SOFT DRAWN HIGH STRENGTH TRACER WIRE, 250# AVERAGE TENSILE BREAK LOAD, 30 MIL HIGH MOLECULAR WEIGHT (HMWPE) OR HIGH DENSITY (HDPE) POLYETHYLENE JACKET COMPLYING WITH ASTM-D-1248, 30 VOLT RATING. JACKET COLOR SHALL BE GREEN. NO THIN INSULATED WIRE SHALL BE ALLOWED. TRACER WIRE SHALL BE COPPERHEAD INDUSTRIES HS-OCS OR APPROVED EQUAL. THE TRACER WIRE SHALL BE SHALL BE TAPED TO THE PIPE AT THE THREE O'CLOCK POSITION EVERY 5 FEET. THE TRACER WIRE ENDS WILL TERMINATE AT A TRACER WIRE TEST STATION. TRACER WIRE SHALL HAVE MOISTURE RESISTANT SPLICES FOR DIRECT BURY APPLICATIONS. SPLICES SHALL BE COPPERHEAD INDUSTRIES SNAKEBIT OR 3M DBR OR APPROVED EQUAL. TRACER WIRE TEST STATIONS SHALL BE INSTALLED 2 FEET OF THE MANHOLE OR STRUCTURE IN THE FLOW LINE OF THE PIPE. THESE STATIONS SHALL BE DESIGNED TO BE EASILY DETECTED BY MAGNETIC AND ELECTRONIC LOCATORS. A MAGNET SHALL BE SECURELY ATTACHED AT THE TOP OF THE UPPER TUBE OF THE BOX FOR LOCATING PURPOSES. LID SHALL BE GREEN AND HAVE A BRASS TERMINAL FOR ATTACHING LOCATING EQUIPMENT AND A BRASS

Date: November 6, 2023

To: Mayor and Council

From: Kate Fjell, City Administrator

Re: First Reading of Bill No. 2023-30 Approving an Agreement with Missouri Highways and Transportation Commission for Highway 5 Sidewalk Project Phase 1

The City has been awarded the Transportation Alternative Project federal funds for 2023. Several months ago, the Council approved a Resolution supporting our application for these funds. The project will be for the first phase of a sidewalk along Ashley Road; the project is starting at the proposed QuikTrip location and will run down to the high school. Sidewalks will also be on the other side of the street (past Pilot, Mid America, etc) and there will be a push button lighted crosswalk installed across Ashley Road.

TAP is an 80/20 match, City was awarded \$285,074, our match is \$71,269. The total project cost is \$385,343. The project will be done in FY 24-25.

**AN ORDINANCE OF THE CITY OF BOONVILLE, MISSOURI AUTHORIZING
EXECUTION OF A TRANSPORTATION ALTERNATIVES PROGRAM
AGREEMENT BY AND BETWEEN THE CITY OF BOONVILLE, MISSOURI
AND THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION;
PROVIDING AN EFFECTIVE DATE THEREFORE AND REPEALING ALL
ORDINANCES IN CONFLICT WITH THIS ORDINANCE**

WHEREAS, the City of Boonville was selected to receive funding for Phase 1 of the Highway 5 (Ashley Road) Sidewalk Project

WHEREAS, the City desires to provide safe routes for pedestrians near the high school, convenience stores and hotels in this project areas; and

WHEREAS, the City approved Resolution R2023-12 on August 7, 2023 authorizing the application of Phase 1 of the Hwy 5 (Ashley Road) Sidewalk Project to the Missouri Highways Transportation Commission for consideration; and

WHEREAS, the City of Boonville desires to initiate a project utilizing these TAP funds by entering into a program agreement.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE
CITY OF BOONVILLE, MISSOURI, AS FOLLOWS:**

SECTION 1: That the City of Boonville, Missouri shall accept and execute the Transportation Alternatives Program Agreement, a copy of which is marked “**Exhibit A**” and is attached hereto and made a part hereof, with the Missouri Highways and Transportation Commission for certain sidewalk improvements.

SECTION 3: That the City Administrator is hereby authorized to execute said Agreement on behalf of the City of Boonville, Missouri, and the City Clerk is hereby authorized and directed to impress thereon the official seal of the City, and to attest said execution.

SECTION 4: This ordinance shall take effect and be in force following approval by the City Council.

SECTION 5: All ordinances or parts of ordinances in conflict with this ordinance are hereby repealed.

FIRST READING: November 5, 2023

**READ FOR THE SECOND TIME AND PASSED ON THIS 19th DAY OF
NOVEMBER 2023, AFTER A COPY OF THIS ORDINANCE HAS BEEN MADE
AVAILABLE FOR PUBLIC INSPECTION PRIOR TO ITS FIRST READING.**

Ned Beach, Mayor

APPROVED THIS 19th DAY OF NOVEMBER 2022

ATTEST:

Amber Davis, City Clerk

CCO Form: FS25
Approved: 04/95 (MGB)
Revised: 10/22 (MWH)
Modified:

CFDA Number: 20.205
CFDA Title: Highway Planning and Construction
Award name/number: TAP – 9901(5)
Award Year: FY 2024
Federal Agency: Federal Highway Administration, Department of Transportation

**MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
TRANSPORTATION ENHANCEMENTS FUNDS
PROGRAM AGREEMENT**

THIS AGREEMENT is entered into by the Missouri Highways and Transportation Commission (hereinafter, "Commission") and the City of Boonville (hereinafter, City).

WITNESSETH:

NOW, THEREFORE, in consideration of the mutual covenants, promises and representations in this Agreement, the parties agree as follows:

(1) PURPOSE: The United States Congress has authorized, in Infrastructure Investment and Jobs Act (IIJA); 23 U.S.C. §101, §106 §133; and §208 funds to be used for transportation enhancements activities. The purpose of this Agreement is to grant the use of such transportation enhancement funds to the City.

(2) LOCATION: The transportation enhancements funds which are the subject of this Agreement are for the project at the following location:

Sidewalk improvements on Ashley Road from Fuqua Drive to Northern H School Entrance

The general location of the project is shown on attachment marked "Exhibit A" and incorporated herein by reference.

(3) REASONABLE PROGRESS POLICY: The project as described in this agreement is subject to the reasonable progress policy set forth in the Local Public Agency (LPA) Manual. If the project is within a Transportation Management Area that has a reasonable progress policy in place, the project is subject to that policy. If the project is withdrawn for not meeting reasonable progress, the City agrees to repay the Commission for any progress payments made to the City for the project and agrees that the Commission may deduct progress payments made to the City from future payments to the City. The City may not be eligible for future Transportation Enhancements Funds

if the City does not meet the reasonable progress policy.

(4) INDEMNIFICATION:

(A) To the extent allowed or imposed by law, the City shall defend, indemnify and hold harmless the Commission, including its members and the Missouri Department of Transportation (MoDOT or Department) employees, from any claim or liability whether based on a claim for damages to real or personal property or to a person for any matter relating to or arising out of the City's wrongful or negligent performance of its obligations under this Agreement.

(B) The City will require any contractor procured by the City to work under this Agreement:

1. To obtain a no cost permit from the Commission's district engineer prior to working on the Commission's right-of-way, which shall be signed by an authorized contractor representative (a permit from the Commission's district engineer will not be required for work outside of the Commission's right-of-way); and

2. To carry commercial general liability insurance and commercial automobile liability insurance from a company authorized to issue insurance in Missouri, and to name the Commission, and MoDOT and its employees, as additional named insureds in amounts sufficient to cover the sovereign immunity limits for Missouri public entities as calculated by the Missouri Department of Insurance, Financial Institutions and Professional Registration, and published annually in the Missouri Register pursuant to Section 537.610, RSMo. The City shall cause insurer to increase the insurance amounts in accordance with those published annually in the Missouri Register pursuant to Section 537.610, RSMo.

(C) In no event shall the language of this Agreement constitute or be construed as a waiver or limitation for either party's rights or defenses with regard to each party's applicable sovereign, governmental, or official immunities and protections as provided by federal and state constitution or law.

(5) AMENDMENTS: Any change in this Agreement, whether by modification or supplementation, must be accomplished by a formal contract amendment signed and approved by the duly authorized representatives of the City and the Commission.

(6) COMMISSION REPRESENTATIVE: The Commission's District Engineer is designated as the Commission's representative for the purpose of administering the provisions of this Agreement. The Commission's representative may designate by written notice other persons having the authority to act on behalf of the Commission in furtherance of the performance of this Agreement.

(7) NONDISCRIMINATION ASSURANCE: With regard to work under this Agreement, the City agrees as follows:

(A) Civil Rights Statutes: The City shall comply with all state and federal statutes relating to nondiscrimination, including but not limited to Title VI and Title VII of the Civil Rights Act of 1964, as amended (42 U.S.C. §2000d and §2000e, *et seq.*), as well as any applicable titles of the "Americans with Disabilities Act" (42 U.S.C. §12101, *et seq.*). In addition, if the City is providing services or operating programs on behalf of the Department or the Commission, it shall comply with all applicable provisions of Title II of the "Americans with Disabilities Act".

(B) Administrative Rules: The City shall comply with the administrative rules of the United States Department of Transportation relative to nondiscrimination in federally-assisted programs of the United States Department of Transportation (49 C.F.R. Part 21) which are herein incorporated by reference and made part of this Agreement.

(C) Nondiscrimination: The City shall not discriminate on grounds of the race, color, religion, creed, sex, disability, national origin, age or ancestry of any individual in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The City shall not participate either directly or indirectly in the discrimination prohibited by 49 C.F.R. §21.5, including employment practices.

(D) Solicitations for Subcontracts, Including Procurements of Material and Equipment: These assurances concerning nondiscrimination also apply to subcontractors and suppliers of the City. These apply to all solicitations either by competitive bidding or negotiation made by the City for work to be performed under a subcontract including procurement of materials or equipment. Each potential subcontractor or supplier shall be notified by the City of the requirements of this Agreement relative to nondiscrimination on grounds of the race, color, religion, creed, sex, disability or national origin, age or ancestry of any individual.

(E) Information and Reports: The City shall provide all information and reports required by this Agreement, or orders and instructions issued pursuant thereto, and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Commission or the United States Department of Transportation to be necessary to ascertain compliance with other contracts, orders and instructions. Where any information required of the City is in the exclusive possession of another who fails or refuses to furnish this information, the City shall so certify to the Commission or the United States Department of Transportation as appropriate and shall set forth what efforts it has made to obtain the information.

(F) Sanctions for Noncompliance: In the event the City fails to comply with the nondiscrimination provisions of this Agreement, the Commission shall impose such contract sanctions as it or the United States Department of Transportation may determine to be appropriate, including but not limited to:

1. Withholding of payments under this Agreement until the City complies; and/or

2. Cancellation, termination or suspension of this Agreement, in whole or in part, or both.

(G) Incorporation of Provisions: The City shall include the provisions of paragraph (7) of this Agreement in every subcontract, including procurements of materials and leases of equipment, unless exempted by the statutes, executive order, administrative rules or instructions issued by the Commission or the United States Department of Transportation. The City will take such action with respect to any subcontract or procurement as the Commission or the United States Department of Transportation may direct as a means of enforcing such provisions, including sanctions for noncompliance; provided that in the event the City becomes involved or is threatened with litigation with a subcontractor or supplier as a result of such direction, the City may request the United States to enter into such litigation to protect the interests of the United States.

(8) ASSIGNMENT: The City shall not assign, transfer or delegate any interest in this Agreement without the prior written consent of the Commission.

(9) LAW OF MISSOURI TO GOVERN: This Agreement shall be construed according to the laws of the State of Missouri. The City shall comply with all local, state and federal laws and regulations relating to the performance of this Agreement.

(10) CANCELLATION: The Commission may cancel this Agreement at any time for a material breach of contractual obligations by providing the City with written notice of cancellation. Should the Commission exercise its right to cancel this Agreement for such reasons, cancellation will become effective upon the date specified in the notice of cancellation sent to the City.

(11) ACCESS TO RECORDS: The City and its contractors must maintain all records relating to this Agreement, including but not limited to invoices, payrolls, etc. These records must be available at no charge to the Federal Highway Administration (FHWA) and the Commission and/or their designees or representatives during the period of this Agreement and any extension, and for a period of three (3) years after the date on which the City receives reimbursement of their final invoice from the Commission.

(12) FEDERAL-AID PROVISIONS: Because responsibility for the performance of all functions or work contemplated as part of this project is assumed by the City, and the City may elect to construct part of the improvement contemplated by this Agreement with its own forces, a copy of Section II and Section III, as contained in the United States Department of Transportation Form Federal Highway Administration (FHWA) 1273 "Required Contract Provisions, Federal-Aid Construction Contracts," is attached and made a part of this Agreement as Exhibit C. Wherever the term "the contractor" or words of similar import appear in these sections, the term "the City" is to be substituted. The City agrees to abide by and carry out the condition and obligations of "the contractor" as stated in Section II, Equal Opportunity, and Section III, Nonsegregated Facilities, as set

out in Form FHWA 1273.

(13) ACQUISITION OF RIGHT OF WAY: With respect to the acquisition of right of way necessary for the completion of the project, City shall acquire any additional necessary right of way required for this project and in doing so agrees that it will comply with all applicable federal laws, rules and regulations, including 42 U.S.C. 4601-4655, the Uniform Relocation Assistance and Real Property Acquisition Act, as amended and any regulations promulgated in connection with the Act.

(14) MAINTENANCE OF DEVELOPMENT: The City shall maintain the herein contemplated improvements without any cost or expense to the Commission. All maintenance by the City shall be done for the safety of the general public and the esthetics of the area. In addition, if any sidewalk or bike trails are constructed on the Commission's right-of-way pursuant to this Agreement, the City shall inspect and maintain the sidewalk or bike trails constructed by this project in a condition reasonably safe to the public and, to the extent allowed by law, shall indemnify and hold the Commission harmless from any claims arising from the construction and maintenance of said sidewalk or bike trails. If the City fails to maintain the herein contemplated improvements, the Commission or its representatives, at the Commission's sole discretion shall notify the City in writing of the City's failure to maintain the improvement. If the City continues to fail in maintaining the improvement, the Commission may remove the herein contemplated improvement whether or not the improvement is located on the Commission's right of way. Any removal by the Commission shall be at the sole cost and expense of the City. Maintenance includes but is not limited to mowing and trimming between shrubs and other plantings that are part of the improvement.

(15) PLANS: The City shall prepare preliminary and final plans and specifications for the herein improvements. The plans and specifications shall be submitted to the Commission for the Commission's review and approval. The Commission has the discretion to require changes to any plans and specifications prior to any approval by the Commission.

(16) REIMBURSEMENT: The cost of the contemplated improvements will be borne by the United States Government and by the City as follows:

(A) Any federal funds for project activities shall only be available for reimbursement of eligible costs which have been incurred by the City. Any costs incurred by the City prior to authorization from FHWA and notification to proceed from the Commission are **not** reimbursable costs. The federal share for this project will be 80 percent not to exceed two hundred eighty-five thousand seventy-four dollars (\$285,074.00). The calculated federal share for seeking federal reimbursement of participating costs for the herein improvements will be determined by dividing the total federal funds applied to the project by the total participating costs. Any costs for the herein improvements which exceed any federal reimbursement or are not eligible for federal reimbursement shall be the sole responsibility of the City. The Commission shall not be responsible for any costs associated with the herein improvement unless

specifically identified in this Agreement or subsequent written amendments.

(17) PROGRESS PAYMENTS: The City may request progress payments be made for the herein improvements as work progresses but not more than once every two weeks. Progress payments must be submitted monthly. The City shall repay any progress payments which involve ineligible costs.

(18) PROMPT PAYMENTS: Progress invoices submitted to MoDOT for reimbursement more than thirty (30) calendar days after the date of the vendor invoice shall also include documentation that the vendor was paid in full for the work identified in the progress invoice. Examples of proof of payment may include a letter or e-mail from the vendor, lien waiver or copies of cancelled checks. Reimbursement will not be made on these submittals until proof of payment is provided. Progress invoices submitted to MoDOT for reimbursement within thirty (30) calendar days of the date on the vendor invoice will be processed for reimbursement without proof of payment to the vendor. If the City has not paid the vendor prior to receiving reimbursement, the City must pay the vendor within two (2) business days of receipt of funds from MoDOT.

(19) PERMITS: The City shall secure any necessary approvals or permits from any federal or state agency as required for the completion of the herein improvements. If this improvement is on the right of way of the Commission, the City must secure a permit from the Commission prior to the start of any work on the right of way. The permits which may be required include, but are not limited to, environmental, architectural, historical or cultural requirements of federal or state law or regulation.

(20) INSPECTION OF IMPROVEMENTS AND RECORDS: The City shall assure that representatives of the Commission and FHWA shall have the privilege of inspecting and reviewing the work being done by the City's contractor and subcontractor on the herein project. The City shall also assure that its contractor, and all subcontractors, if any, maintain all books, documents, papers and other evidence pertaining to costs incurred in connection with the Transportation Enhancement Program Agreement, and make such materials available at such contractor's office at all reasonable times at no charge during this Agreement period, and for three (3) years from the date of final payment under this Agreement, for inspection by the Commission, FHWA or any authorized representatives of the Federal Government and the State of Missouri, and copies shall be furnished, upon request, to authorized representatives of the Commission, State, FHWA, or other Federal agencies.

(21) CREDIT FOR DONATIONS OF FUNDS, MATERIALS, OR SERVICES: A person may offer to donate funds, materials or services in connection with this project. Any donated funds, or the fair market value of any donated materials or services that are accepted and incorporated into this project shall be credited according to 23 U.S.C. §323.

(22) DISADVANTAGED BUSINESS ENTERPRISES (DBE): The Commission will advise the City of any required goals for participation by disadvantaged business enterprises (DBEs) to be included in the City's proposal for the work to be performed.

The City shall submit for Commission approval a DBE goal or plan. The City shall comply with the plan or goal that is approved by the Commission and all requirements of 49 C.F.R. Part 26, as amended.

(23) VENUE: It is agreed by the parties that any action at law, suit in equity, or other judicial proceeding to enforce or construe this Agreement, or regarding its alleged breach, shall be instituted only in the Circuit Court of Cole County, Missouri.

(24) NOTICE TO BIDDERS: The City shall notify the prospective bidders that disadvantaged business enterprises shall be afforded full and affirmative opportunity to submit bids in response to the invitation and will not be discriminated against on grounds of race, color, sex, or national origin in consideration for an award.

(25) FINAL AUDIT: The Commission may, in its sole discretion, perform a final audit of project costs. The United States Government shall reimburse the City, through the Commission, any monies due. The City shall refund any overpayments as determined by the final audit.

(26) AUDIT REQUIREMENTS: If the City expend(s) seven hundred fifty thousand dollars (\$750,000) or more in a year in federal financial assistance it is required to have an independent annual audit conducted in accordance with 2 CFR Part 200. A copy of the audit report shall be submitted to MoDOT within the earlier of thirty (30) days after receipt of the auditor's report(s), or nine (9) months after the end of the audit period. Subject to the requirements of 2 CFR Part 200, if the City expend(s) less than seven hundred fifty thousand dollars (\$750,000) a year, the City may be exempt from auditing requirements for that year but records must be available for review or audit by applicable state and federal authorities.

(27) FEDERAL FUNDING ACCOUNTABILITY AND TRANSPARENCY ACT OF 2006: The City shall comply with all reporting requirements of the Federal Funding Accountability and Transparency Act (FFATA) of 2006, as amended. This Agreement is subject to the award terms within 2 C.F.R. Part 170.

[Remainder of Page Intentionally Left Blank]

IN WITNESS WHEREOF, the parties have entered into this Agreement on the date last written below.

Executed by the City this _____.

Executed by the Commission this _____.

MISSOURI HIGHWAYS AND
TRANSPORTATION COMMISSION

City of Boonville

By _____

Title _____

Title _____

ATTEST:

Secretary to the Commission

ATTEST:

Approved as to Form:

By _____

Title _____

Approved as to Form:

Commission Counsel

Title: _____

Ordinance No: _____

Exhibit A - Location of Project

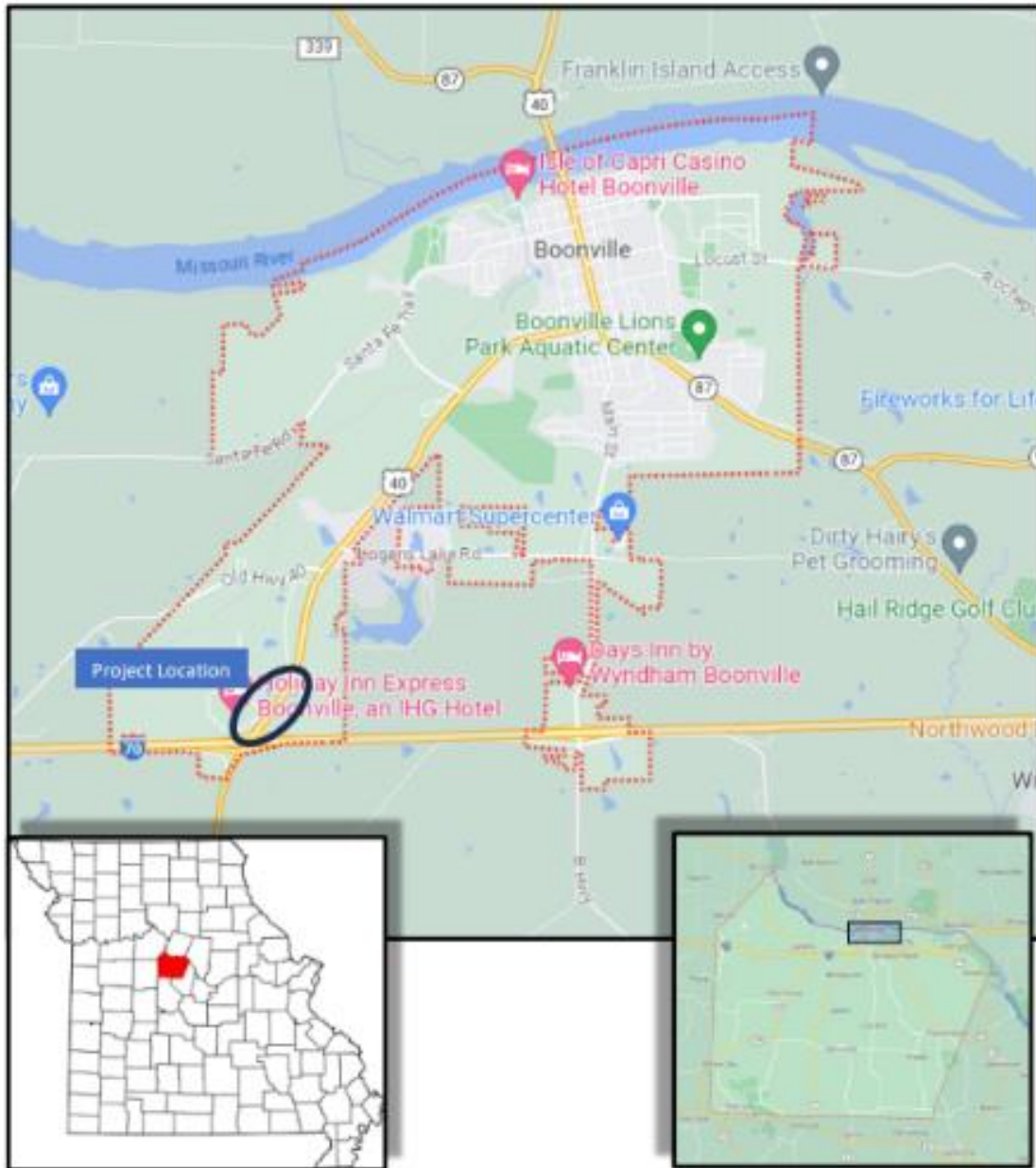


Exhibit B – Project Schedule

Project Description: **TAP 9901(5)**
Sidewalk improvements on Ashley Road from Fuqua Drive to Northern H School Entrance

Task	Date
Date funding is made available or allocated to the recipient	11/1/2023
Solicitation for Professional Engineering Services (advertised)	1/1/2024
Engineering Services Contract Approved	2/1/2024
Preliminary and Right-of-Way Plans Submittal (if Applicable)	11/1/2024
Plans, Specifications & Estimate (PS&E) Submittal	5/1/2025
Plans, Specifications & Estimate (PS&E) Approval	7/1/2025
Advertisement for Letting	8/1/2025
Bid Opening	9/1/2025
Construction Contract Award (REQUIRED)	10/1/2025

Schedule dates are approximate as the project schedule will be actively managed and issues mitigated through the project delivery process. The Award Date deliverable is **not approximate and a Supplemental Agreement is required to modify this date.

Exhibit C - Required Contract Provisions
Federal-Aid Construction Contracts

STREET, ALLEY, and SANITATION BOARD
City of Boonville
Street, Alley, and Sanitation Meeting Minutes
September 20, 2023

The Street, Alley and Sanitation Board met at the City Services Building, 1200 Locust Street. at 5:00pm on September 20, 2023. The following voting members were present: Lewis Miller, Wayne Jones, and David Smith. Jeff Ditto, Director of Public Works and Susan Meadows/Council Representative were also present.

ABSENT OR EXCUSED: Rex Myers

MINUTES: David Smith moved that the minutes of the August 16, 2023, meeting be approved as presented. That motion was second by Wayne Jones and the vote was unanimous.

PUBLIC COMMENTS: None

OLD BUSINESS:

1. Parking at Village Garden
 - a. After discussion it was determined that the City would establish 2 parking spots in front of the property on the curb, utilizing street paint referred to as Parking-T's. It was also discussed that the tenants were to no longer pull in and park across the sidewalk. The motion was made by David Smith and seconded to approve the discussed changes; the vote was unanimous.

NEW BUSINESS: None

MISCELLANEOUS: None

ADJOURN: With no further business, David Smith moved the meeting to be adjourned at 5:25p.m., seconded by Wayne Jones. The vote was unanimous.

Respectfully Submitted,

Jeff Ditto, Director of Public Works

**BOARD OF PUBLIC WORKS
MEETING
September 28, 2023**

The Board of Public Works met at the City Services Building at 1200 Locust, 5:30 p.m. September 28, 2023. The following voting members were present: Ed Scrivner, James Quint, Glenn Bishop, and Dale Monteer. Other members present: Barry Elbert, Council Representative; Russel Gerling, Alliance Water; and Jeff Ditto, Director of Public Works.

ABSENT or EXCUSED: None

MINUTES:

Minutes were read and a motion to approve the minutes was made by James Quint and seconded by Dale Monteer.

PUBLIC COMMENTS: None.

ACCOUNTS:

Bills were presented. A motion to approve bills was made by Ed Scrivner and seconded by James Quint.

OLD BUSINESS: None

NEW BUSINESS:

- A. Boonville Ready Mix requested a bill adjustment due to their bills being estimated due to a broken meter. After reviewing the data presented to the Board regarding cubic foot of concrete poured and costs accrued it was determined that there was no loss to the customer due to the estimation. A motion to deny the request was made by Glenn Bishop and seconded by Ed Scrivner.
- B. A high-water bill caused by a leaking water heater was presented for Eunice Wright. After reviewing the facts, a motion to adjust the bill to her normal average cost bill was made by Ed Scrivner and seconded by Glenn Bishop.

MISCELLANEOUS: None

ADJOURN:

With no further business the meeting was adjourned at 5:55 p.m. with the motion from Glenn Bishop, seconded by Dale Monteer. Vote was unanimous.

Respectfully submitted,

Jeff Ditto

Approved by:

Ed Scrivner, Chairman

**CITY OF BOONVILLE
BOARD OF PUBLIC WORKS
CANCELLATION
OCTOBER 26, 2023**

5:30 p.m.

**City Service Building
1200 Locust Street
Boonville, Missouri**

The Thursday, October 26, 2023, meeting of the Board of Public Works has been cancelled due to lack of quorum or lack of agenda items. The next regularly scheduled meeting is November 30, 2023.

VACANT COMMITTEE POSITIONS & COMMITTEE APPOINTMENTS

Architectural Review Committee – 5 seats

Vacant – 1

Needs Renewed if they Choose – 0

Heather Overstreet

Board of Adjustments – 5 Seats

Vacant – 0

Needs Renewed if they Choose – 0

Board of Public Works – 4 Seats

Vacant – 0

BOCA Board of Appeals—7 Seats – TOTAL NEEDED 7

Vacant – 1

Needs Renewed if they Choose – 6

Boonville Housing Authority Board – 6 Seats –

Vacant – 0

Needs Renewed if they Choose – 1

Marilyn Adkins

Fire Board – 5 Seats

Vacant – 0

Needs Renewed if they Choose – 1

Chris Howard

Historic Preservation Commission – 7 Seats – TOTAL NEEDED-2

Vacant –2

Robert Murray

Needs Renewed if they Choose – 3

Nicole Strong, Ed Scrivner, Kate Johnson,

Industrial Development Authority – 8 Seats

Vacant – 0

Needs Renewed if they Choose – 0

Local Agency Funding – 5 Seats

Vacant – 0

Parks and Recreation Board – 5 Seats – TOTAL NEEDED 2

Vacant – 2

Needs Renewed if they Choose – 0

Planning and Zoning Commission – 5 Seats

Vacant – 0

Needs Renewed if they Choose – 0

Police Board – 5 Seats

Vacant – 0

Needs Renewed if the Choose – 0

Street, Alley, and Sanitation Board – 5 Seats – TOTAL NEEDED 1

Vacant – 0

Needs Renewed if the Choose – 1

Tourism Committee – 5 Seats – TOTAL NEEDED 3

Vacant – 0

Needs Renewed if the Choose – 3

Transportation Development District Committee – 5 Seats – TOTAL NEEDED 1

Vacant – 0

Needs Renewed if they Choose – 0

Date: November 6, 2023
To: Mayor and Council
From:
Re: Committee Appointment

Public Works Monthly Report
September 2023

WWTP:

Total flow processed – 18,920,000 gallons

Average daily flow – 630,000 gallons

Sludge disposed – 94.78

WTP:

Gallons pumped from river – 36,691,000 gallons

Gallons pumped to customer – 35,288,000 gallons

Remarks:

Water Distribution / Sewer Collection:

Installed inserta valve at Poplar and Sixth Streets

Fixed 12 water main breaks

Fixed leaking valves

Installed 51 new meters

Street Department:

Filled Potholes

Swept streets with street sweeper

Finished Cart Paths at Golf Course

Repaired Water Department Street Cuts

Helped with water leak repairs

Picked up yard waste

Central Garage:

Vehicles serviced and inspected – 6

Vehicle and equipment repairs – 12

Weather:

Average Temperature –73°

High Temperature – 97° September 5th, 2023

Low Temperature –55° September 19th, 2023

Total Rain –0.57”

Maximum Rain –0.22” September 12th, 2023