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**MEMORANDUM**

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TO: RANDY HILL, PUBLIC WORKS DIRECTOR

FROM: JON LUTZ, CITY ENGINEER

SUBJECT: HARBOR DREDGE PIPE PROJECT - AWARD

DATE: AUGUST 30TH, 2013

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**INTRODUCTION:**

Annual dredging is necessary at the Muscatine Harbor to maintain adequate water depth for boats when the river stage is low. In the past, pipe was assembled on the ground through Riverside Park to near the Riverview Center. The pipe is then extended into the water to the city's dredge. Considerable work is involved in assembling and dismantling the 1100 feet of pipe each fall for dredging operations. The public must step over the pipe to have access to rented docks in the marina. Construction plans were prepared by the city engineer to have pipe permanently installed in the ground. The City of Muscatine received bids on the Harbor Dredge Pipe Project on August 30<sup>th</sup>, 2013.

**BACKGROUND:**

The engineer's estimate was \$104,212.35. Bids were received as follows:

- |                           |              |
|---------------------------|--------------|
| 1. Hagerty Earthworks     | \$66,372.90  |
| 2. Sulzberger Excavating  | \$86,882.88  |
| 3. Muscatine Bridge Co.   | \$89,045.10  |
| 4. Cornerstone Excavating | \$101,883.20 |
| 5. Triple B Construction  | \$106,865.50 |
| 6. Langman Construction   | \$134,839.50 |

The low bids were attributed to a favorable bidding climate and competition among numerous bidders. Detailed bid tabulation is attached. Hagerty Earthworks has successfully performed similar work on Muscatine projects in recent history such as Maiden Lane Sanitary Sewer and Cook Street Storm Sewer and significant other work for City of Davenport and Muscatine County.

**RECOMMENDATION/RATIONALE:**

The city engineer recommends awarding the Harbor Dredge Pipe Project to Hagerty Earthworks at the September 5th, 2013 City Council meeting for \$66,372.90 which includes the alternate add on and that Council authorize the administrator and mayor to enter into contract.

**ADDITIONAL INFORMATION:**

1. Bid Tabulation
2. Construction plans

**RESOLUTION NO. \_\_\_\_\_**

**AWARD AND APPROVE CONTRACT FOR  
HARBOR DREDGE PIPE**

WHEREAS, competitive bids were received for the Harbor Dredge Pipe project as detailed in the project specifications prepared by the City Engineer.

WHEREAS, the following bid is determined to be the lowest responsible bid for the Harbor Dredge Pipe Project.

<u>NAME &amp; ADDRESS CONTRACTOR</u>	<u>AMOUNT OF BID</u>
Hagerty Earthworks, LLC 300 East 2 <sup>nd</sup> Street, Suite 304 Muscatine, Iowa 52761	\$66,372.90

NOW, THEREFORE, BE IT RESOLVED, that the bid be awarded to Hagerty Earthworks, LLC in the amount of \$66,372.90 and that the Mayor and City Administrator are authorized to enter into a contract in this amount for the Harbor Dredge Pipe project.

PASSED, APPROVED, AND ADOPTED THIS 5<sup>th</sup> DAY OF SEPTEMBER, 2013.

\_\_\_\_\_  
DeWayne Hopkins, Mayor

ATTEST:

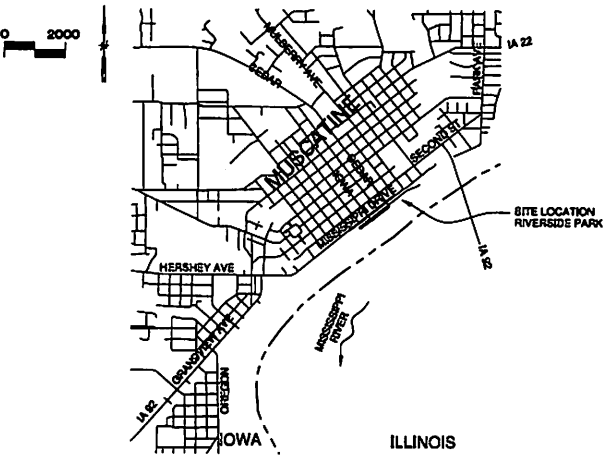
\_\_\_\_\_  
Gregg Mandsager, City Administrator

# Bid Tabulation

August 30, 2013

City of Muscatine  
Public Works  
Harbor Dredge Pipe

				Engineer		Hagerty Earthworks		Sulzberger		Musc. Bridge Co.		Cornerstone		Triple B		Langman	
#	ITEM	QUANTITY	UNITS	COST/UNIT	COST	COST/UNIT	COST	COST/UNIT	COST	COST/UNIT	COST	COST/UNIT	COST	COST/UNIT	COST	COST/UNIT	COST
<b>Base Bid</b>																	
1	Mobilization	1	LS	\$3,000.00	\$3,000.00	\$2,000.00	\$2,000.00	\$5,000.00	\$5,000.00	\$1,000.00	\$1,000.00	\$11,500.00	\$11,500.00	\$5,000.00	\$5,000.00	\$12,000.00	\$12,000.00
2	Remove sidewalk	44	SY	\$6.50	\$286.00	\$7.00	\$308.00	\$6.25	\$275.00	\$8.00	\$352.00	\$10.00	\$440.00	\$10.00	\$440.00	\$15.00	\$660.00
3	Special backfill, place only	16.3	CY	\$20.00	\$326.00	\$10.00	\$163.00	\$20.50	\$334.15	\$34.00	\$554.20	\$15.00	\$244.50	\$25.00	\$407.50	\$10.00	\$163.00
4	6" PCC sidewalk	74	SY	\$50.00	\$3,700.00	\$50.00	\$3,700.00	\$69.30	\$5,128.20	\$55.00	\$4,070.00	\$50.00	\$3,700.00	\$45.00	\$3,330.00	\$60.00	\$4,440.00
5	10" Ductile Iron pipe	10	LF	\$85.00	\$850.00	\$60.00	\$600.00	\$195.00	\$1,950.00	\$130.00	\$1,300.00	\$260.00	\$2,600.00	\$120.00	\$1,200.00	\$500.00	\$5,000.00
6	10" HDPE pipe	1116	LF	\$63.00	\$70,308.00	\$35.50	\$39,618.00	\$35.25	\$39,339.00	\$45.00	\$50,220.00	\$42.00	\$46,872.00	\$65.00	\$72,540.00	\$65.00	\$72,540.00
7	10" Gate valve	1	EA	\$2,600.00	\$2,600.00	\$1,200.00	\$1,200.00	\$1,875.00	\$1,875.00	\$1,850.00	\$1,850.00	\$1,750.00	\$1,750.00	\$2,000.00	\$2,000.00	\$1,500.00	\$1,500.00
8	Structural concrete	6.5	CY	\$475.00	\$3,087.50	\$300.00	\$1,950.00	\$1,210.00	\$7,865.00	\$1,000.00	\$6,500.00	\$600.00	\$3,900.00	\$300.00	\$1,950.00	\$1,000.00	\$6,500.00
9	Structural steel	330	LB	\$1.25	\$412.50	\$2.70	\$891.00	\$1.10	\$363.00	\$1.00	\$330.00	\$2.50	\$825.00	\$1.50	\$495.00	\$2.00	\$660.00
10	Class E revetment stone	26	TON	\$60.00	\$1,560.00	\$45.00	\$1,170.00	\$32.00	\$832.00	\$45.00	\$1,170.00	\$46.50	\$1,209.00	\$45.00	\$1,170.00	\$50.00	\$1,300.00
11	2" Ballast stone	13.6	TON	\$22.00	\$299.20	\$25.00	\$340.00	\$21.50	\$292.40	\$37.00	\$503.20	\$33.00	\$448.80	\$30.00	\$408.00	\$35.00	\$476.00
12	5' Diameter manhole	1	EA	\$3,500.00	\$3,500.00	\$2,500.00	\$2,500.00	\$3,950.00	\$3,950.00	\$3,000.00	\$3,000.00	\$8,500.00	\$8,500.00	\$3,500.00	\$3,500.00	\$10,000.00	\$10,000.00
13	Surface restoration	1	LS	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$2,400.00	\$2,400.00	\$2,750.00	\$2,750.00	\$5,000.00	\$5,000.00	\$3,500.00	\$3,500.00	\$1,500.00	\$1,500.00
				Subtotal	\$91,429.20	Subtotal	\$55,940.00	Subtotal	\$69,603.75	Subtotal	\$73,599.40	Subtotal	\$88,989.30	Subtotal	\$85,940.50	Subtotal	\$116,739.00
<b>Alternate Add On</b>																	
1A	Remove sidewalk	6.7	SY	\$6.50	\$43.55	\$7.00	\$46.90	\$5.25	\$35.18	\$8.00	\$53.60	\$25.00	\$167.50	\$10.00	\$67.00	\$15.00	\$100.50
2A	Special backfill, place only	1.5	CY	\$20.00	\$30.00	\$10.00	\$15.00	\$20.50	\$30.75	\$34.00	\$51.00	\$100.00	\$150.00	\$25.00	\$37.50	\$10.00	\$15.00
3A	6" PCC sidewalk	6.7	SY	\$50.00	\$335.00	\$50.00	\$335.00	\$275.00	\$1,842.50	\$55.00	\$368.50	\$50.00	\$335.00	\$45.00	\$301.50	\$60.00	\$402.00
4A	10" Ductile Iron pipe	7	LF	\$85.00	\$595.00	\$60.00	\$420.00	\$163.00	\$1,141.00	\$140.00	\$980.00	\$260.00	\$1,820.00	\$120.00	\$840.00	\$500.00	\$3,500.00
5A	10" HDPE pipe	54	LF	\$65.00	\$3,510.00	\$65.00	\$3,510.00	\$41.50	\$2,241.00	\$64.00	\$3,456.00	\$62.00	\$3,348.00	\$65.00	\$3,510.00	\$65.00	\$3,510.00
6A	10" Gate valve	1	EA	\$2,600.00	\$2,600.00	\$1,200.00	\$1,200.00	\$1,875.00	\$1,875.00	\$1,850.00	\$1,850.00	\$1,750.00	\$1,750.00	\$2,000.00	\$2,000.00	\$1,500.00	\$1,500.00
7A	Structural concrete	6.5	CY	\$475.00	\$3,087.50	\$300.00	\$1,950.00	\$1,210.00	\$7,865.00	\$1,000.00	\$6,500.00	\$600.00	\$3,900.00	\$300.00	\$1,950.00	\$1,000.00	\$6,500.00
8A	Structural steel	330	LB	\$1.25	\$412.50	\$2.70	\$891.00	\$1.10	\$363.00	\$1.00	\$330.00	\$2.50	\$825.00	\$1.50	\$495.00	\$2.00	\$660.00
9A	Class E revetment stone	26	TON	\$60.00	\$1,560.00	\$45.00	\$1,170.00	\$32.00	\$832.00	\$45.00	\$1,170.00	\$46.50	\$1,209.00	\$45.00	\$1,170.00	\$50.00	\$1,300.00
10A	2" Ballast stone	11.8	TON	\$22.00	\$259.60	\$25.00	\$295.00	\$21.50	\$253.70	\$37.00	\$436.60	\$33.00	\$389.40	\$30.00	\$354.00	\$35.00	\$413.00
11A	Surface restoration	1	LS	\$350.00	\$350.00	\$600.00	\$600.00	\$800.00	\$800.00	\$250.00	\$250.00	\$1,000.00	\$1,000.00	\$200.00	\$200.00	\$200.00	\$200.00
				Subtotal	\$12,783.15		\$10,432.90		\$17,279.13		\$15,445.70		\$14,893.90		\$10,925.00		\$18,100.50
<b>Total Base &amp; Alternate</b>					\$104,212.35		\$66,372.90		\$86,882.88		\$89,045.10		\$101,883.20		\$106,865.50		\$134,839.50



**LOCATION MAP**



# CITY OF MUSCATINE, IOWA HARBOR DREDGE PIPE RIVERSIDE PARK 2013

Referenced specifications for this project shall be Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, latest series. Exceptions to the referenced specifications are: "Instructions to Bidders", "Special Conditions", and "Estimate Reference Information" listed in the contract document which shall take precedence over the referenced specifications.

INDEX OF SHEETS	
NO.	DESCRIPTION
A.01	COVER
C.01	QUANTITIES & ESTIMATE REFERENCE INFORMATION
D.01	SITE PLAN
D.02	SITE PLAN

## UTILITY CONTACTS

MUSCATINE POWER & WATER  
3205 CEDAR STREET  
MUSCATINE, IOWA 52761  
WATER - KRIS HATFIELD (563)282-3380  
ELECTRIC - ANDY KURRIGER (563)282-3391  
COMMUNICATIONS - TOM LEWIS (563)282-3208

ALLIANT ENERGY  
215 OAK STREET  
MUSCATINE, IOWA 52761  
GAS - ANN KRIESS (563)288-3322

CENTURYLINK  
420 SYCAMORE STREET  
MUSCATINE, IOWA 52761  
TELEPHONE - MATTHEW KEARNEY (319)399-7600

IOWA COMMUNICATIONS NETWORK (ICN)  
400 E 14TH ST.  
DES MOINES, IA 50319  
FIBER - KENT FROESE (515)725-4725 OFC  
(515)229-2046 CELL

## UTILITY NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL UNDERGROUND UTILITIES.

IOWA 1-CALL# 1-800-292-8989



CITY OF MUSCATINE  
MUSCATINE COUNTY  
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Jonathan H. Lutz  
Date \_\_\_\_\_ Reg. No. 13184  
My license renewal date is December 31, 2014  
Pages or sheets covered by this seal: ALL



DRAWN BY: JL  
DATE: 08/21/13

CITY OF MUSCATINE

2013 HARBOR DREDGE PIPE

COVER

100B-2012-01

A.01

ESTIMATED PROJECT QUANTITIES					100-1A 07-15-97
ITEM NO.	ITEM	UNIT	TOTAL	AS BUILT QUAN.	
BASE BID					
1	MOBILIZATION	LB	1		
2	REMOVE SIDEWALK	SV	44		
3	SPECIAL BACKFILL PLACE ONLY	CV	16.3		
4	8" PCC SIDEWALK	SV	74		
5	10" DUCTILE IRON PIPE	LF	10		
6	10" HOPE PIPE	LF	1118		
7	10" GATE VALVE	EA	1		
8	STRUCTURAL CONCRETE	CV	6.5		
9	STRUCTURAL STEEL	LO	330		
10	CLASS E REVELMENT	TON	28		
11	2" BALLAST STONE	TON	13.8		
12	5" DIAMETER MANHOLE	EA	1		
13	SURFACE RESTORATION	LB	1		
ALTERNATE ADD ON					
1A	REMOVE SIDEWALK	SV	6.7		
2A	SPECIAL BACKFILL PLACE ONLY	CV	1.5		
3A	8" PCC SIDEWALK	SV	6.7		
4A	10" DUCTILE IRON PIPE	LF	7		
5A	10" HOPE PIPE	LF	44		
6A	10" GATE VALVE	EA	1		
7A	STRUCTURAL CONCRETE	CV	6.5		
8A	STRUCTURAL STEEL	LO	330		
9A	CLASS E REVELMENT	TON	28		
10A	2" BALLAST STONE	TON	13.8		
11A	SURFACE RESTORATION	LB	1		

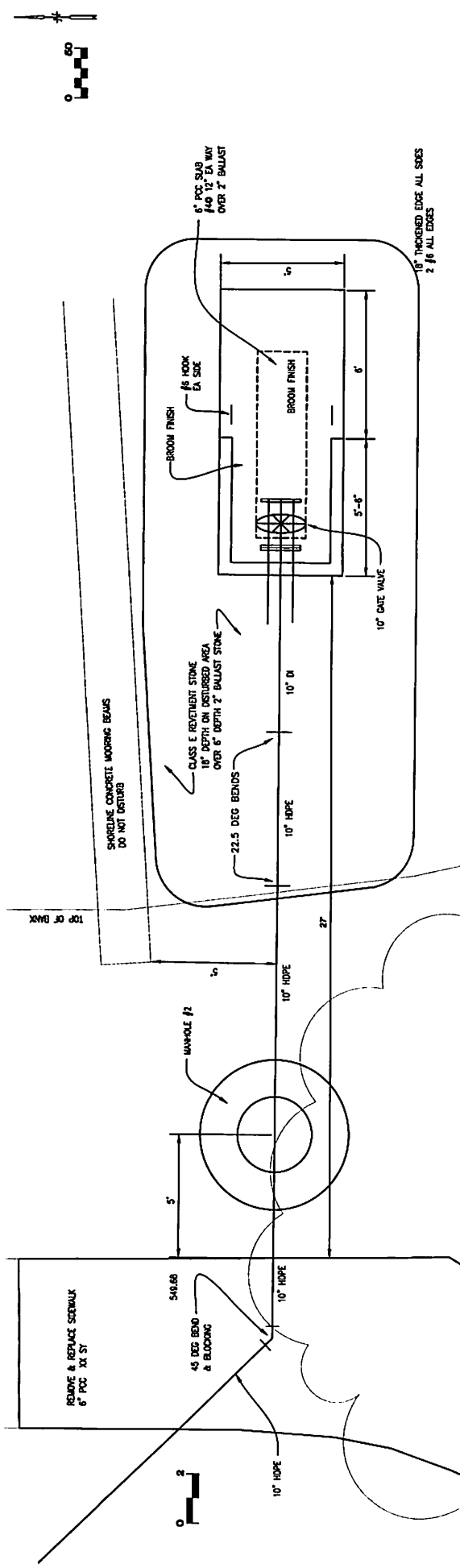
ESTIMATE REFERENCE INFORMATION		100-1A 10-29-2002
Item No.	Description	
1	MOBILIZATION Refer to requirements of Section 2533 Mobilization in the Standard Specifications.	
2	REMOVE SIDEWALK Remove and haul to Public Works Yard. The material becomes property of the City.	
3	SPECIAL BACKFILL PLACE ONLY City shall lead contractor trucks at Public Works Yard with special bedfill. Contractor shall haul and place material to thickness and grade under sidewalks.	
4	8" PCC SIDEWALK Construct 8" PCC concrete sidewalks using IDOT class C4 with 7% air entrainment and surface cure with broom finish.	
5	10" DUCTILE IRON PIPE Furnish and install 10" ductile iron pipe & fittings. Includes #10 insulated 10 strand copper localia wire.	
6	10" HOPE PIPE Furnish and install 10" DR9 HDPE pipe & fittings. Includes #10 insulated 10 strand copper localia wire. Bury shall be 4' to top of pipe. Compact bedfill to 90% standard proctor in grass areas and 85% standard proctor within 5' of sidewalk or pavement. No density testing is required unless required by engineer and in such case will be paid for as extra if tests pass and at no additional fee if tests fail. Failed areas will be re-excavated and replaced to meet compaction.	
7	10" GATE VALVE Furnish & install 10" resilient wedge flow non rising stem gate valve with circular hand crank & ballast flange connections.	
8	STRUCTURAL CONCRETE Construct poured in place pipe connection aprons with IDOT class C4 concrete with 7% air entrainment. Use low slump mix on 2:1 slope. Inside forms not required on base. Dose clouts on sheet D.02. Quantity will be from certified delivery tickets minus estimated wasted volume.	
9	STRUCTURAL STEEL Furnish and place grade 60 structural rebar. Quantity will be from supplier delivery tickets with field verification.	
10	CLASS E REVELMENT Furnish and place IDOT class E revetment stone on disturbed bank areas around structural concrete. Quantity will be from certified scale tickets.	
11	2" BALLAST STONE Furnish and place 2" limestone ballast under revetment and structural concrete. Quantity will be from certified scale tickets..	
12	5" DIAMETER MANHOLE Furnish & place 5" inside diameter standard precast manhole with concentric 36" hole flat top. Use East Jordan 36" frame & open pick hole cover. Place on 2" ballast with no bottom. Grout with concrete around pipe both sides. Grout incidental to manhole.	
13	SURFACE RESTORATION Site stockpile and replace topsoil over trench excavation. Prepare bed, fertilizer, seed and mulch according to IDOT urban seeding. Contractor shall repair settled areas for up to 2 years following construction.	

Information above shall apply to alternate add on items.

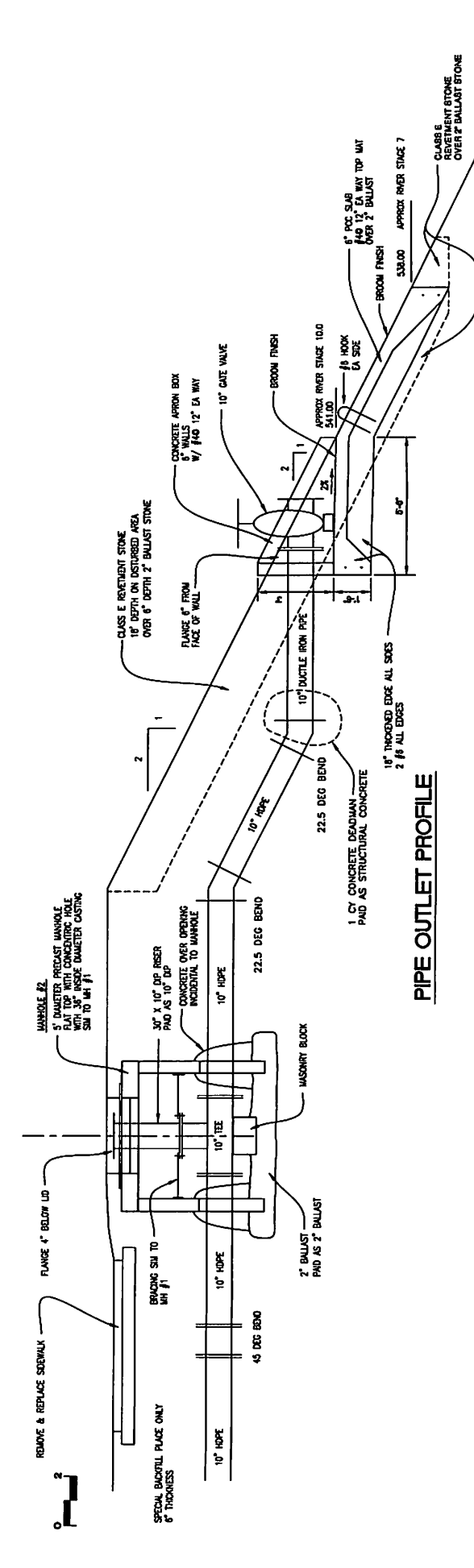
GENERAL NOTES

- City to provide construction staking.
- Contractor shall limit activities to work area and minimize damage to seeded areas and sidewalk. Construction equipment and trucks are not allowed on sidewalk. Unnecessary damage to grassed areas and sidewalks or other features shall be restored at no additional payment.





PIPE OUTLET PLAN



PIPE OUTLET PROFILE