

LEGEND

- W — PROPOSED WATER MAIN
- W_x — EXISTING WATER MAIN
- G_x — NATURAL GAS
- FO_x — EXISTING FIBER OPTIC
- OE — OVERHEAD ELECTRIC
- ES_x — BURIED ELECTRIC
- - - - - PROPERTY LINE
- SS_x — EXISTING SANITARY SEWER
- SS — SANITARY SEWER
- SD_x — EXISTING STORM SEWER
- SD — STORM SEWER
- - - - - PERIMETER EROSION BARRIER
- ⊗ VALVE
- ⊙ HYDRANT
- ⊗ CURB STOP AND BOX
- ▷ REDUCER
- ⊙ SANITARY MANHOLE
- ⊙ STORM MANHOLE
- ⊙ AREA LIGHT
- ⊙ STREET LIGHT
- ⊙ UTILITY POLE
- △ CONTROL POINTS
- PROPERTY CORNER
- ⊙ TREE

DOC MPCF IPI BUILDING STORMWATER MANAGEMENT MOUNT PLEASANT, IOWA DAS PROJECT NO. 9387.00

GENERAL NOTES

1. SPECIFICATIONS ARE BASED ON SUDAS 2024.
2. ALL BURIED UTILITY LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD LOCATED PRIOR TO EXCAVATION.
3. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, DRIVES, STREETS AND OTHER ITEMS TO REMAIN, INCLUDING ANY NOT SPECIFICALLY SHOWN IN THE DRAWINGS. DAMAGE TO EXISTING UTILITIES, DRIVES, STREETS AND OTHER ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
4. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY CONFLICTS BETWEEN THE DRAWINGS AND EXISTING FEATURES.
5. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF UNEXPECTED SUB-SURFACE CONDITIONS. DISCONTINUE WORK IN AREA UNTIL NOTIFIED BY OWNER TO RESUME WORK.
6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING CONSTRUCTION LAYOUT FOR ALL GRADES AND FEATURES.

DRAWING INDEX

SHEET NUMBER	TITLE	REVISION NUMBER
G-001	COVER SHEET	0
G-002	QUANTITIES AND ESTIMATE REFERENCE NOTES	0
C-010	OVERVIEW MAP, SHEET INDEX	0
C-090	REMOVALS	0
C-101	PLAN AND PROFILE	0
C-301	SECTIONS AND DETAILS	0
C-501	DETAILS	0

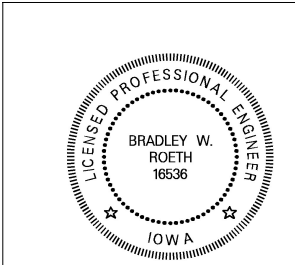
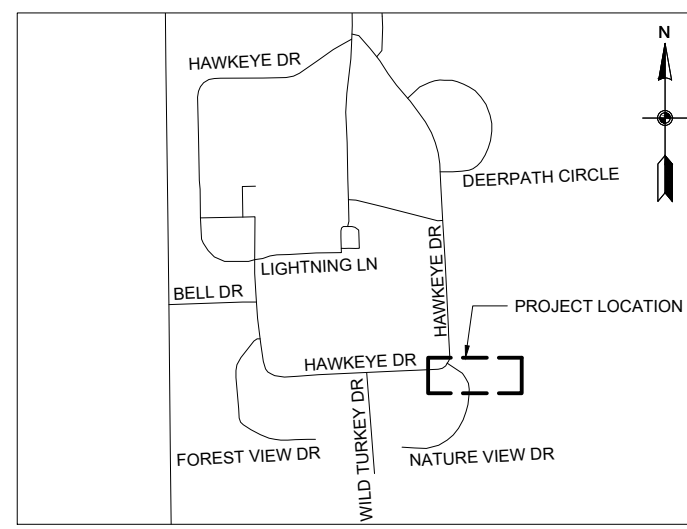
IOWA ONE CALL UTILITY CONTACTS

<p>ACCESS ENERGY COOPERATIVE COMPANY NAME : ACCESS ENERGY COOPERATIVE CONTACT NAME: Dan Philips PHONE: 3193851577 EMAIL: dphilips@accessenergycoop.com</p> <p>ALLIANT ENERGY CONTACT NAME: Alliant Energy Field Engineer PHONE: 8002554268 EMAIL: locate_IPL@alliantenergy.com</p> <p>MEDIACOM BROADBAND, L.L.C. CONTACT NAME: Mitch Hancock PHONE: 3097434735 EMAIL: mhancock@mediacomcc.com</p>	<p>MOUNT PLEASANT MUNICIPAL UTIL COMPANY NAME : MOUNT PLEASANT MUNICIPAL CONTACT NAME: Jack Hedgecock PHONE: 3193852121 EMAIL: mpugroup@mtputilities.com</p> <p>MOUNT PLEASANT, CITY OF COMPANY NAME : MOUNT PLEASANT, CITY OF CONTACT NAME: Rick Mullin PHONE: 3193851480 EMAIL: rmullin@iowatelecom.net</p>
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ABBREVIATIONS

- | | |
|--------|--------------|
| APPROX | APPROXIMATE |
| AVE | AVENUE |
| DI | DUCTILE IRON |
| DR | DRIVE |
| EXST | EXISTING |
| INV | INVERT |
| LF | LINEAR FEET |
| MAX | MAXIMUM |
| MH | MANHOLE |
| MIN | MINIMUM |
| N | NORTH |
| PH | PHASE |
| S | SOUTH |
| SAN | SANITARY |
| ST | STREET |
| STA | STATION |
| TYP | TYPICAL |

LOCATION MAP



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.

Bradley W. Roeth 7/24/2024

Signature Date
 Bradley W. Roeth My license renewal date is
 License Number 16536 December 31, 2024

Sheets covered by this seal: ALL DRAWINGS



DATE	DESCRIPTION	MARK
7/23/24	BWR	APPR
0	FOR BIDS	MARK

DESIGNED BY:	DATE:
BWR	7/23/24
DWN BY:	SOLICITATION NO.:
XXX	127.02
SUBMITTED BY:	CONTRACT NO.:
BWR	127.02
PLOT SCALE:	FILE NUMBER:
AS IS	AS IS
FILE NAME:	FILE NAME:
AS IS	AS IS

DOC MPCF IPI BUILDING
 STORMWATER MANAGEMENT
 1200 E WASHINGTON ST
 MOUNT PLEASANT, IOWA
 COVER SHEET

SHEET
IDENTIFICATION
G-001

PROJECT QUANTITIES AND ESTIMATE REFERENCE NOTES

FOR USE AS REFERENCE ONLY. THESE QUANTITIES ARE ESTIMATES ONLY. PROJECT TO BE BID AS LUMP SUM. ITEMS REQUIRED BY SPECIFICATIONS OR DRAWINGS BUT NOT LISTED ARE CONSIDERED INCIDENTAL TO ITEMS LISTED. CONTRACTOR TO VERIFY QUANTITIES.

BID ITEM	SUDAS ITEM CODE	TITLE	UNIT	ESTIMATED QTY	ESTIMATE REFERENCE NOTES
1	2010-D	STRIPPING, STOCKPILING, AND REPLACING ROCK SURFACING MATERIAL	SY	124	Stripping and stockpiling rock surfacing; preparing the placement area; re-spreading the rock surfacing; and removal of bricks and other undesirable materials.
2	2010-I	SUBGRADE TREATMENT, PLASTIC SHEETING	SY	62	Furnishing, placing, and incorporating 10-mil plastic sheeting as an infiltration barrier below rock surfacing.
3	4020-A2	STORM SEWER, TRENCHLESS, PVC, 8"	LF	145	Furnishing and installing solid wall PVC pipe; trenchless installation materials and equipment; pit excavation; dewatering; placing and compacting backfill material; pipe connections; testing; and inspection.
4	4030-B	PIPE APRON, METAL, 8"	EA	1	Trench excavation; dewatering; furnishing and installing the apron; furnishing, placing, and compacting bedding and backfill material; shaping outlet channel to existing grades; connectors; and other appurtenances.
5	4040-A	SUBDRAIN, SLOTTED PVC, 8"	LF	140	Trench excavation, disposal of unsuitable trench material, furnishing and placing bedding and backfill material, engineering fabric, connectors, and elbows and tees.
6	4040-B	ROOF DRAIN COLLECTOR, SOLID PVC, 8"	LF	140	Trench excavation, disposal of unsuitable trench material, furnishing and placing solid wall PVC, engineering fabric, pipe, wyes, tap, fittings, and bedding and backfill material.
7	4040-C	TYPE B CLEANOUT, 36"	EA	2	Trench excavation, disposal of unsuitable trench material, furnishing and installing cleanout and casting; and furnishing, placing, and compacting bedding and backfill material.
8	4040-C	TYPE A-2 CLEANOUT, 8"	EA	2	Trench excavation, disposal of unsuitable trench material, furnishing cleanout and lid; and furnishing, placing, and compacting bedding and backfill material.
9	4040-E	ROOF DRAIN SERVICE STUB, PVC, 2" SUMP OUTLET	LF	6	Trench excavation, furnishing bedding material, placing bedding and backfill material, PVC pipe and fittings.
10	4040-E	ROOF DRAIN SERVICE STUB, PVC, 6" DOWNSPOUT	LF	40	Trench excavation, furnishing bedding material, placing bedding and backfill material, PVC pipe and fittings.
11	9010-A	CONVENTIONAL SEEDING, TYPE 1	SY	100	Removal of rock and other debris from the area; repairing rills and washes; preparing the seedbed; furnishing and placing seed, including any treatment required; furnishing and placing fertilizer and mulch; and furnishing water and other care during the care period. Furnishing, applying, and incorporating fertilizer to the area to be seeded. Furnishing, applying, and incorporating mulch to the area to be seeded.
12	9040-F-1	SWPPP MEASURES - WATTLES, 9"	LF	100	Includes installation, maintenance, and removal.
13	9060-D	REMOVAL AND REINSTALLATION OF EXISTING FENCE AND GATE INCLUDING CONCRETE POST FOUNDATIONS	LF	168	Work is related to the 12ft high inner security fence along north side of building to widen the area available for construction operations. Includes disassembly and reassembly of existing fence, personnel gate, chainlink mesh, 4 layers of razor wire, rails, supports, hardware and ties; new 4" galvanized steel posts; excavation, new concrete post foundations (2'-0" diameter x 4ft depth); new grounding rod at midpoint of reassembled fence. Electrical conduits may be removed and not replaced.
14	9060-D	SECURE FENCING AT END OF EACH WORK DAY	LS	1	Full height closure of any fence openings required for construction at end of each work day. Anticipated location is 10ft between northeast building corner and exterior fence.
15	11010-A	CONSTRUCTION SURVEY	LS	1	Autocad design files will be provided to contractor. Staking locations and elevations are the responsibility of the contractor.
16	11020-A	MOBILIZATION	LS	1	The movement of personnel, equipment, and supplies to the project site; the establishment of offices, buildings, and other facilities necessary for the project; and bonding, permits, and other expenses incurred prior to construction.
17	11050-A	CONCRETE WASHOUT	LS	1	Providing concrete washwater containment, collection, and disposal.



DATE	SOLICITATION NO.	CONTRACT NO.	FILE NUMBER	DATE	APPR
				7/23/24	
				0	FOR BIDS
				MARK	

DESIGNED BY:	DATE:	SOLICITATION NO.:	FILE NUMBER:
BWR			
DNB BY:	ISSUE DATE:	CONTRACT NO.:	FILE NAME:
XXX	XX-XX-XX		
SUBMITTED BY:	PLOT SCALE:	ISSUE DATE:	FILE NUMBER:
BWR		XX-XX-XX	

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
HOOPER STATE OFFICE BUILDING,
FIRST FLOOR
1000 E WASHINGTON ST
DES MOINES, IA 50319-0105

WATERSMITH ENGINEERING
1029 HERSHEY AVE
MUSCATINE, IA 52761

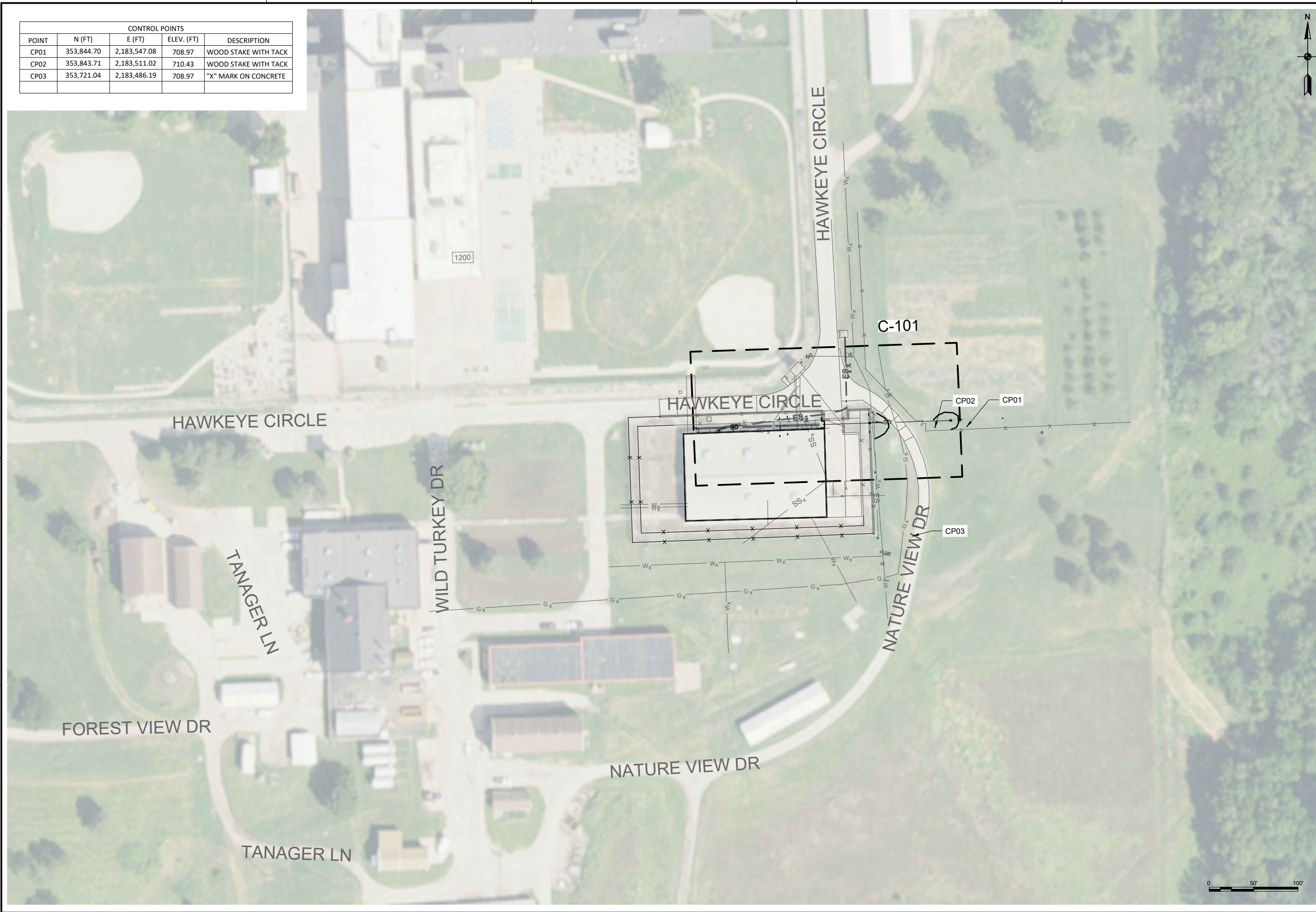
DOC MPOF PI BUILDING
STORMWATER MANAGEMENT
1200 E WASHINGTON ST
MOUNT PLEASANT, IOWA

QUANTITIES
AND ESTIMATE REFERENCE NOTES

SHEET
IDENTIFICATION
G-002

CONTROL POINTS				
POINT	N (FT)	E (FT)	ELEV. (FT)	DESCRIPTION
CP01	353,844.70	2,183,547.08	708.97	WOOD STAKE WITH TACK
CP02	353,843.71	2,183,511.02	710.43	WOOD STAKE WITH TACK
CP03	353,721.04	2,183,486.19	708.97	"X" MARK ON CONCRETE

D
C
B
A



MARK	DESCRIPTION	DATE	APPR
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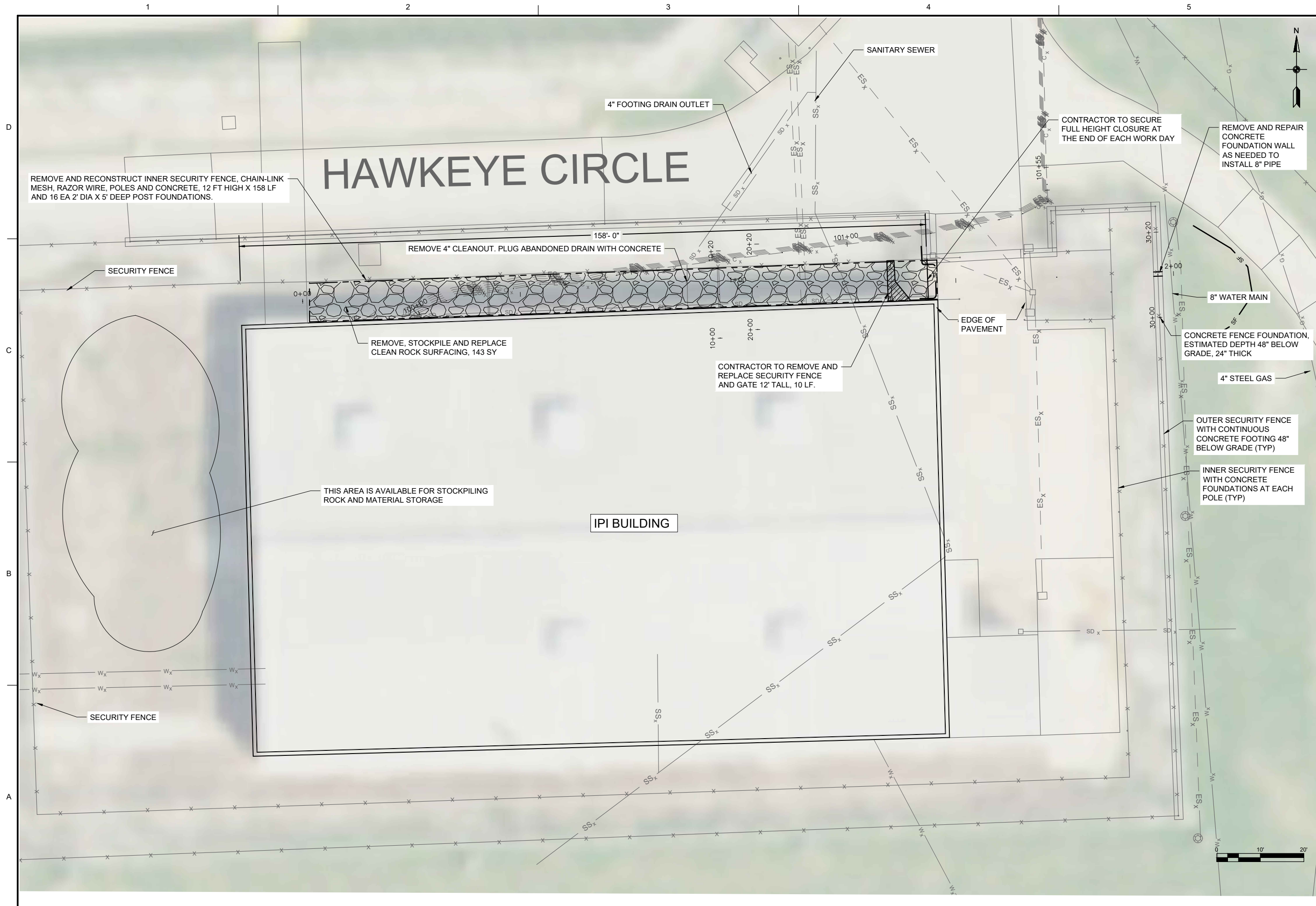
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PLOT SCALE:	ISSUE DATE:	FILE NAME:
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HOOPER STATE OFFICE BUILDING,
FIRST FLOOR
100 WEST WASHINGTON ST.
DES. MOBILE, IA 50319-0105

WATERSMITH ENGINEERING
1029 HERSHEY AVE
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DOC. MPCF IPI BUILDING
STORMWATER MANAGEMENT
1200 E WASHINGTON ST
MOUNT PLEASANT, IOWA

OVERVIEW MAP
SHEET IDENTIFICATION
C-010



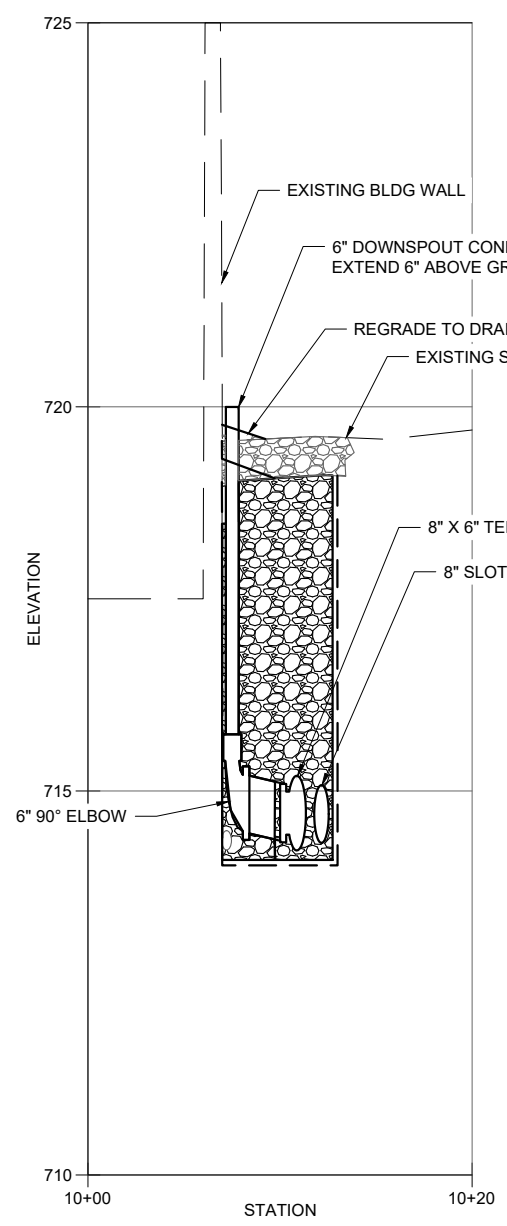
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BWR		
CD BY:	ISSUE DATE:	CONTRACT NO.:
XXX	XX-XX-XX	127.02
SUBMITTED BY:	FILE NUMBER:	
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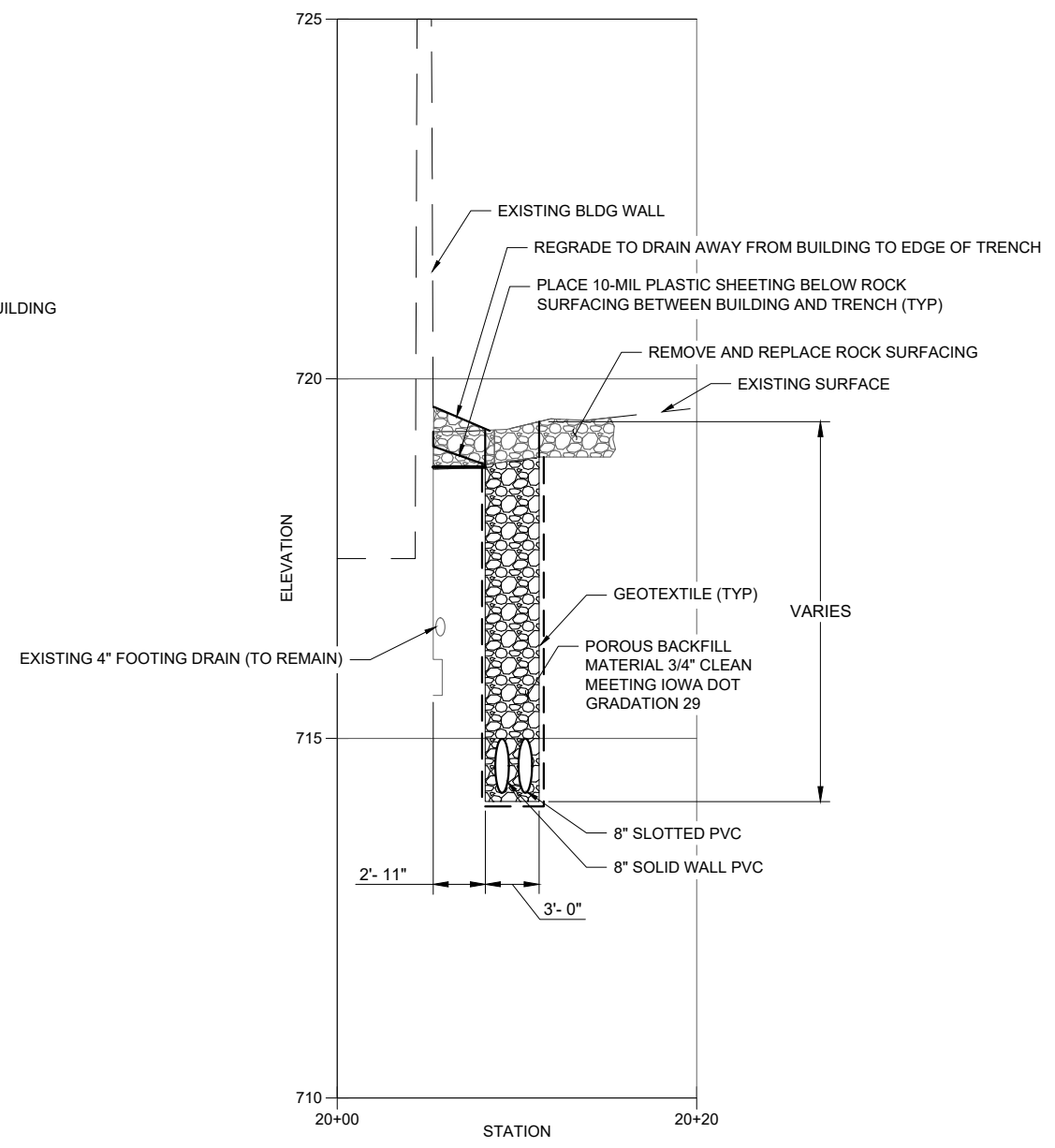
IOWA DEPARTMENT OF
 HOOPER STATE OFFICE BUILDING,
 ADMINISTRATIVE SERVICES
 FIRST FLOOR
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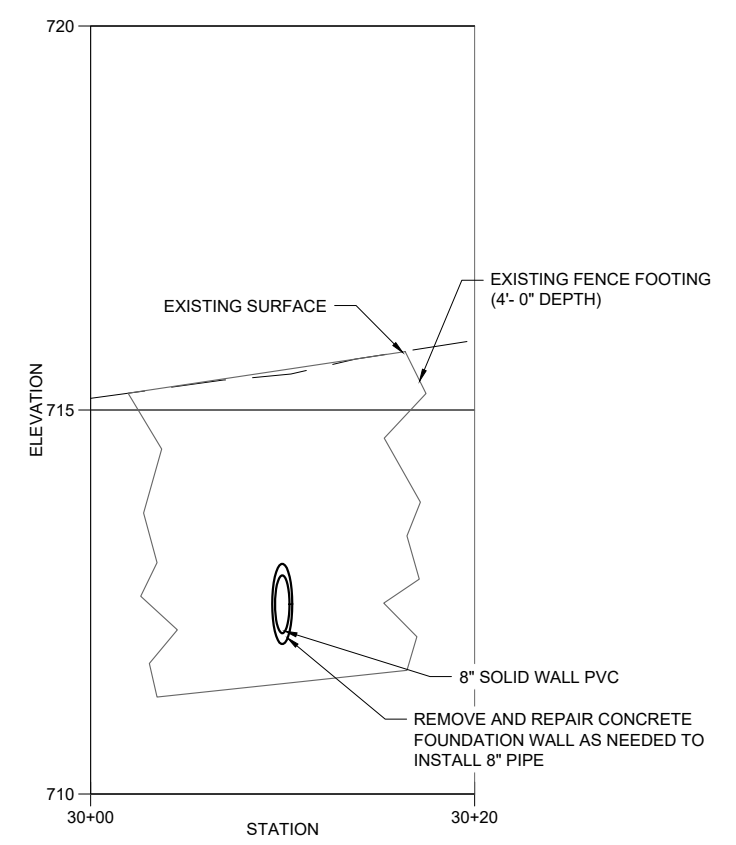
REMOVALS
 SHEET IDENTIFICATION
 C-090



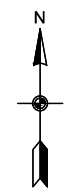
A SECTION AT STA 0+95



B SECTION AT STA 1+04



C SECTION AT STA 1+96



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PLOT SCALE:	SIZE: ANSI B	

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STORMWATER MANAGEMENT
1200 E WASHINGTON ST
MOUNT PLEASANT, IOWA

DESIGNED BY:
BWR

1

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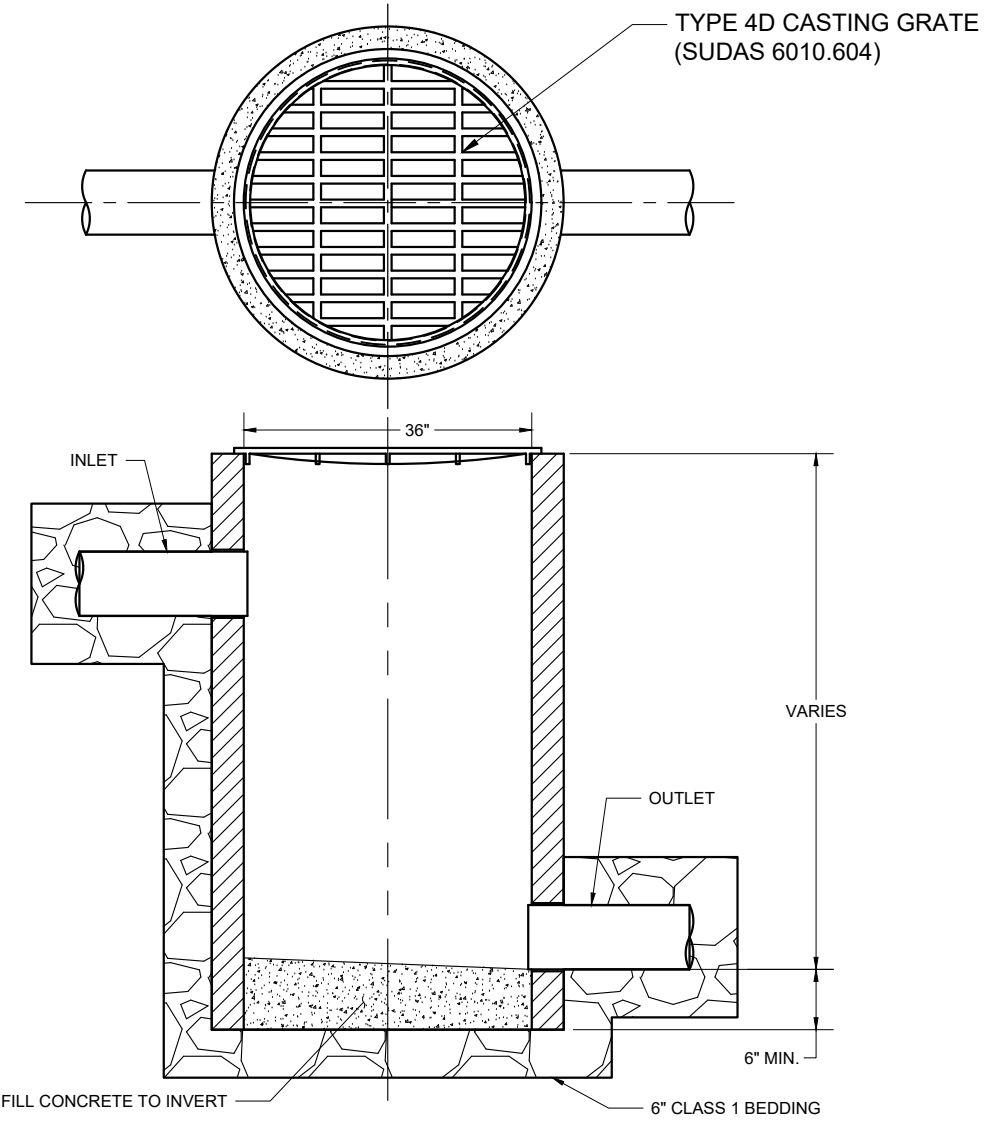
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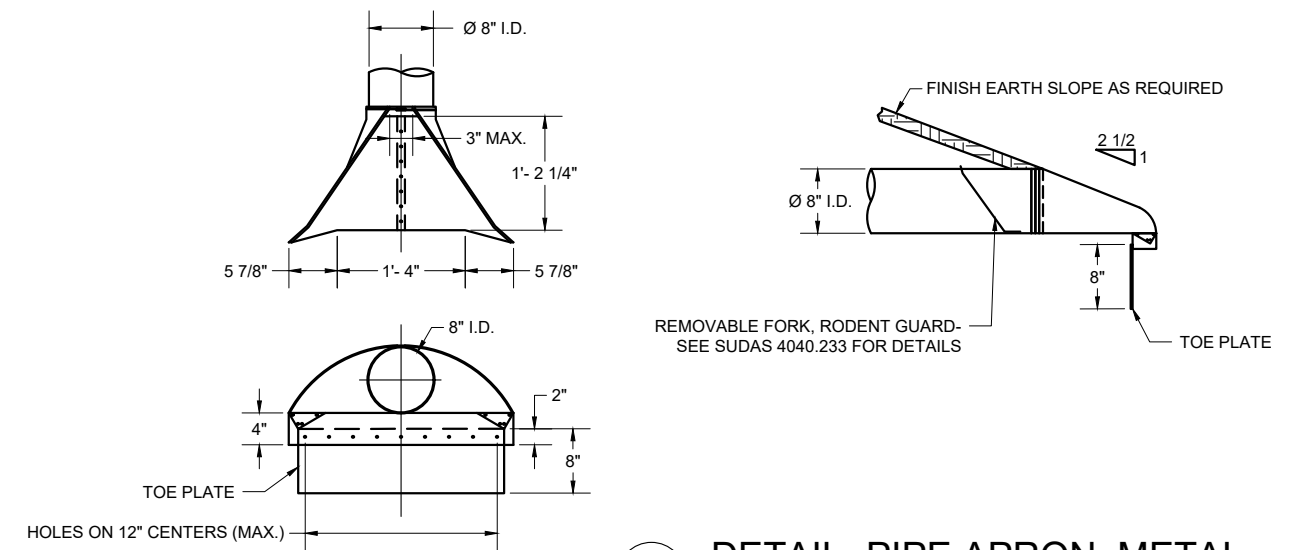
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COLLECTOR PIPE TABLE							
DOWNSTREAM STRUCTURE	UPSTREAM STRUCTURE	PIPE DIA. (IN)	LENGTH (FT)	SLOPE (%)	DOWNSTREAM INVERT EL.	UPSTREAM INVERT EL.	COMMENT
PIPE APRON	TYPE B CLEANOUT	8"	143.0	3.20	709.20	713.82	SOLID WALL PVC
TYPE B CLEANOUT	TYPE B CLEANOUT	8"	49.0	1.00	713.93	714.43	SOLID WALL PVC
TYPE B CLEANOUT	TYPE B CLEANOUT	8"	49.0	1.00	713.93	714.43	SLOTTED WALL PVC
TYPE B CLEANOUT	TYPE A CLEANOUT	8"	84.0	1.00	716.97	717.80	SOLID WALL PVC
TYPE B CLEANOUT	TYPE A CLEANOUT	8"	84.0	1.00	716.97	717.80	SLOTTED WALL PVC

STORM STRUCTURE TABLE				
STRUCTURE NAME	STATION	TYPE	GRADE EL.	INVERT EL.
APRON	2+87.00	PIPE APRON, 8", METAL	709.96	709.2
TYPE B CLEANOUT	1+41.59	TYPE B CLEANOUT- 36" RCP	718.00	713.20
TYPE B CLEANOUT	0+88.28	TYPE B CLEANOUT- 36" RCP	719.00	713.80
TYPE A CLEANOUT	0+01.75	TYPE A CLEANOUT, 8", PVC	719.03	717.75
TYPE A CLEANOUT	0+01.75	TYPE A CLEANOUT, 8", PVC	719.03	717.75



A DETAIL- TYPE B CLEANOUT, PVC



B DETAIL- PIPE APRON, METAL



DATE	7/23/24	BWRE	JAPPR
MARK	0	FOR BIDS	DESCRIPTION

DESIGNED BY:	BWR	CAD BY:	BWR
DRAWN BY:	XXX	SUBMITTED BY:	BWR
DATE:		SOLICITATION NO.:	
		CONTRACT NO.:	127.02
		ISSUE DATE:	XX-XX-XX
		FILE NUMBER:	XX-XX-XX
		FILE NAME:	
		SIZE:	A3/11 B

DESIGN BY: WATERSMITH ENGINEERING
 1029 HERSHEY AVE
 MUSCATINE, IA 52761

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 STORMWATER MANAGEMENT
 1200 E WASHINGTON ST
 MOUNT PLEASANT, IOWA

DETAILS

SHEET IDENTIFICATION
C-501