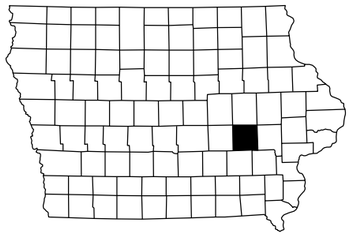
IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS FOR RANDOLPH ACCESS WMA ROAD MAINTENANCE

IOWA COUNTY, IOWA

DOT PROJECT #SP-00SP(3)--7C-00
DNR PROJECT #20-05-48-01



LICENSED PROFESSIONAL ENGINEER
BRUCE L. FLIPPIN
19513
IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED UNDER MY SUPERVISION AND THAT ENGINEERING DECISIONS WITH REGARD TO THE DESIGN WERE MADE BY ME UNDER THE LAWS OF THE STATE OF IOWA.

SIGNATURE _____ DATE _____

BRUCE L. FLIPPIN
PRINTED OR TYPED NAME

MY LICENCE RENEWAL DATE IS DECEMBER 31, 20 22
PAGES COVERED BY THIS SEAL: _____

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

DIRECTORY

PROJECT MANAGER		CONSTRUCTION INSPECTOR	
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES
ADDRESS	502 EAST 9TH STREET	ADDRESS	
CITY,STATE,ZIP	DES MOINES, IA, 50319	CITY,STATE,ZIP	
CONTACT	BRUCE L. FLIPPIN	CONTACT	MIKE DUFOE
TELEPHONE	515-689-8009	TELEPHONE	515-985-9196
FAX	515-281-8685	FAX	
EMAIL	bruce.flippin@dnr.iowa.gov	EMAIL	michael.dufoe@dnr.iowa.gov

PROJECT DESCRIPTION

This project consists of granular roadway maintenance - ditch cleaning, small tree/brush clearing/removal, roadway blading/shaping, rock placement/spreading/rolling, and culvert replacement. It also includes the grade preparation and forming/placement of approximately 100 SY (~25 CY) of 9-inch PCC.

AUTHORIZATION TO BID

AUTHORIZATION - PARKS | WILDLIFE | FISHERIES | LAW ENFORCEMENT | FORESTRY DATE

ENGINEERING BUREAU CHIEF DATE

SHEET INDEX

CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES
ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034

COVER SHEET

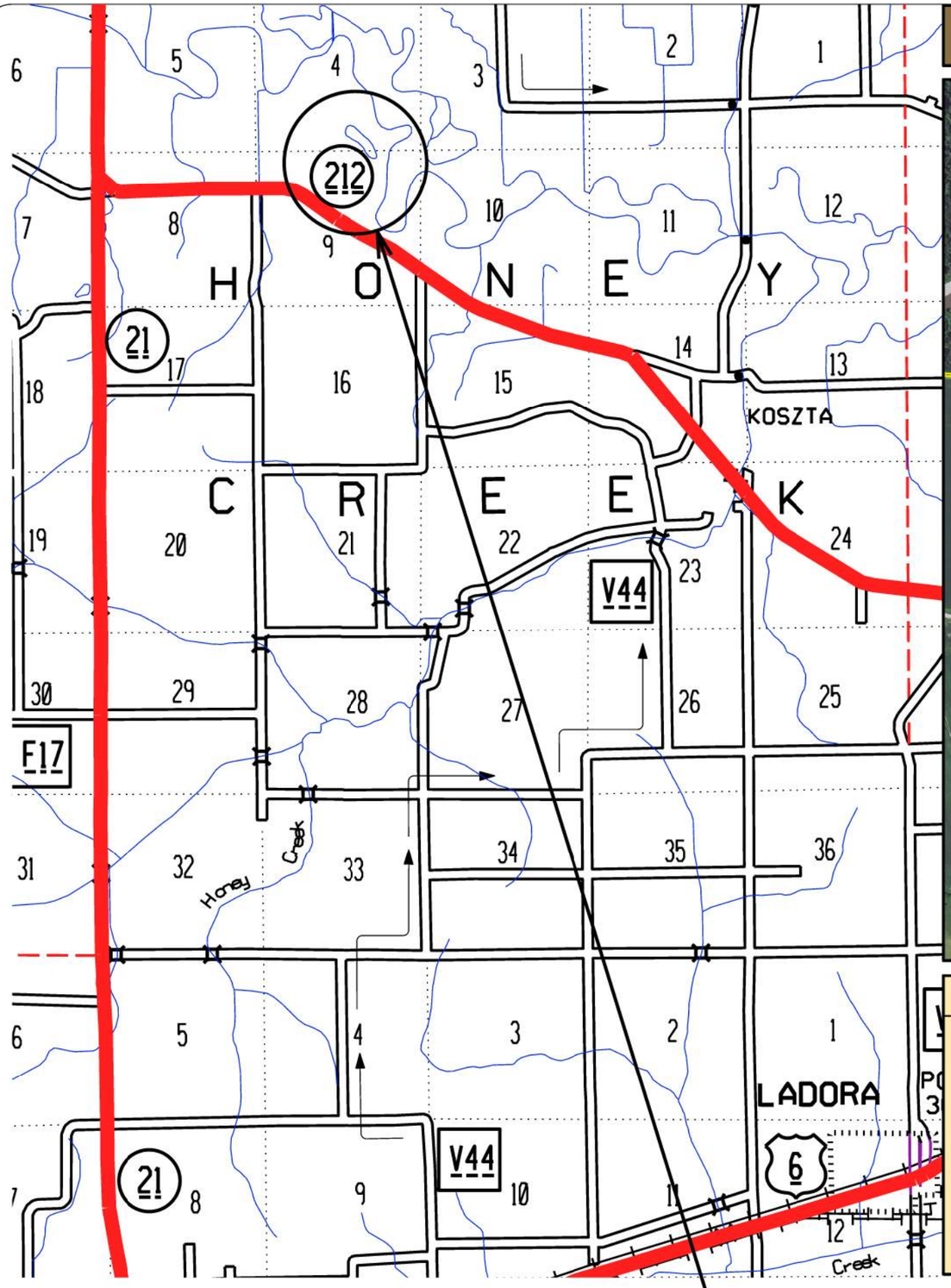
ROAD MAINTENANCE FOR:
RANDOLPH ACCESS WMA
IOWA COUNTY

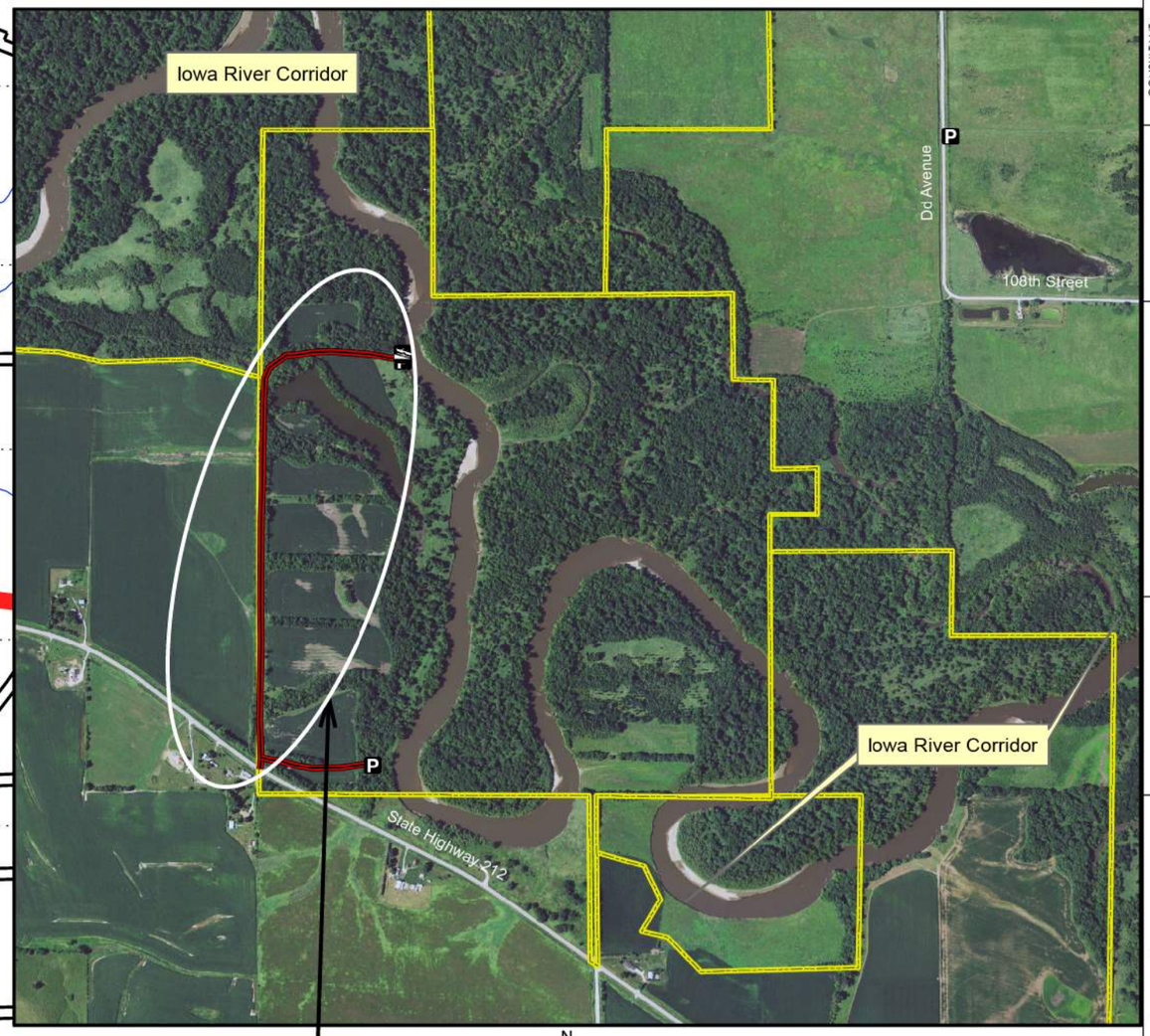
NO.	BY	DATE	REVISION

DRAWN BY: BLF
PROJECT NUMBER: 20-05-48-01
CHK'D BY:
DATE: MARCH 2022

SHEET No:
A.01

Randolph Access Wildlife Management Area





Legend

State Areas open to hunting
- WMA Boundary
- Parking Lot
- Access Road
- 2011 Aerial Photography

Map Creation Date: 4/2013

N
Miles
0 0.1 0.2

Acres: 405

Habitat: 3/4 Timber, 1/4 Upland

Species: Deer, Turkey, Pheasant, Squirrel

Contact: Tim Thompson
Iowa River Wildlife Unit
319-330-7013

Restrictions: Non-Toxic Shot

Iowa County, Iowa
T-81N, R-12W, Sections 3-4,9-10

Directions: *3 miles S of Belle Plaine on Hwy 21, 2 miles E on Hwy 22.*

CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILING
502 E. 9TH ST., DES MOINES, IA 50319-0034

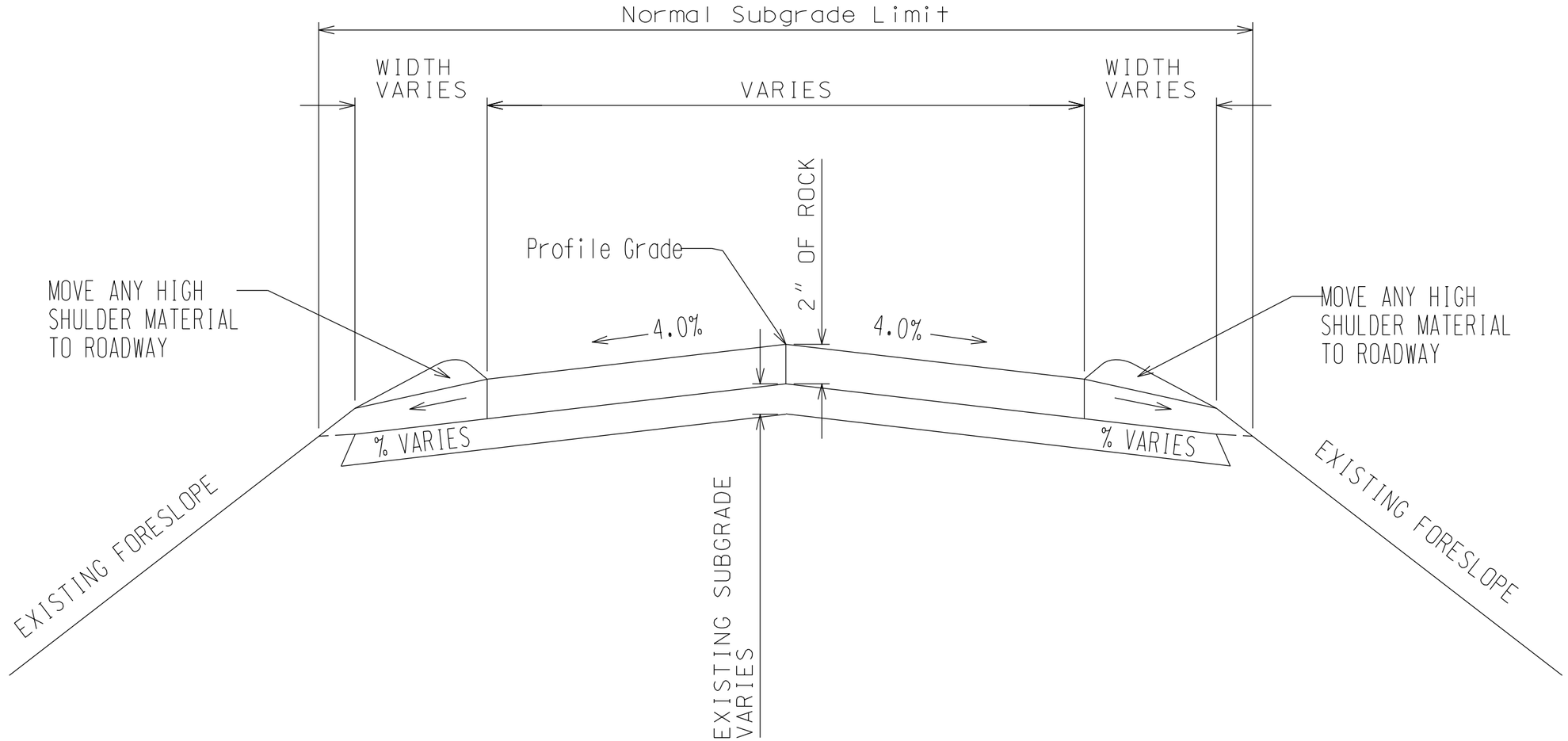
PROJECT LOCATION MAP

ROAD MAINTENANCE FOR:
RANDOLPH ACCESS WMA

IOWA COUNTY

NO	BY	DATE	REVISION

DRAWN BY: BLF
PROJECT NUMBER: 20-05-48-01
CHKD BY:
DATE: MARCH 2022
SHEET No:
A.02



Typical Roadway Section - Center Crown

Note:

Normal sections shown may be appropriately modified for areas specifically designated by the Engineer.

STATION	TO STATION	LOCATION	WIDTH
0+00	43+20	HEADING NORTH	12'

CONSULTANT:

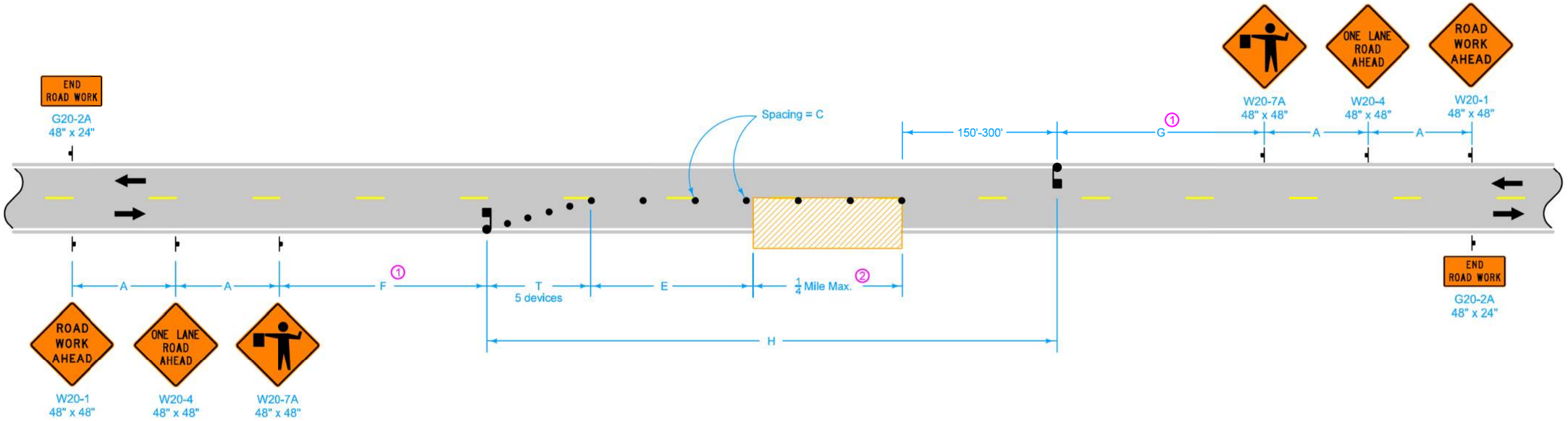
IOWA DEPARTMENT OF NATURAL RESOURCES
ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034

TYPICAL CROSS SECTIONS AND DETAILS

ROAD MAINTENANCE FOR:
RANDOLPH ACCESS WMA
IOWA COUNTY

NO.	BY DATE	REVISION

DRAWN BY: BLF
PROJECT NUMBER: 20-05-48-01
CHK'D BY:
DATE: MARCH 2022
SHEET No: B.01



LEGEND

- Traffic Sign
- Flagger
- 42" Channelizer
- Work Area
- Direction of Traffic

SPEED LIMIT (mph)	A	C	E	F and G Range ①	F + G Max.	H Max.	T
35 or less	250'	40'	0'-200'	500'-3000'	3500'	2000'	50'
40 - 45	350'	80'	0'-200'	700'-3000'	3700'	2000'	100'
50 or greater	500'	100'	200'-300'	1000'-3000'	4000'	2000'	100'

① Keep F and G distances as near to minimum values as work permits. However, to allow advancement of the work area without moving signs, F and G distances may be varied within the limits of the table. Maximum movement can be achieved by setting one F or G value at the minimum and the other value at its maximum.

② If length of work area exceeds 1/4 mile, use TC-214.

Possible Contract Items:
Flaggers
Traffic Control

IOWA DOT

STANDARD ROAD PLAN

REVISION 4 10-15-19

TC-213

SHEET 1 of 1

REVISIONS: New logo.

APPROVED BY DESIGN METHODS ENGINEER

LANE CLOSURE WITH FLAGGERS

CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES
ENGINEERING SERVICES - WALLACE BUILING
502 E. 9TH ST., DES MOINES, IA 50319-0034

DNR

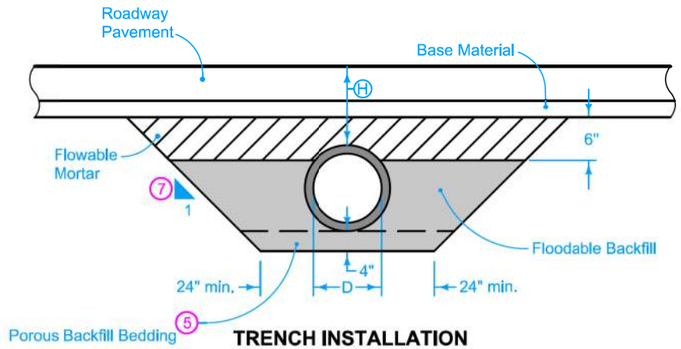
TYPICAL CROSS SECTIONS AND DETAILS

ROAD MAINTENANCE FOR:
RANDOLPH ACCESS WMA
IOWA COUNTY

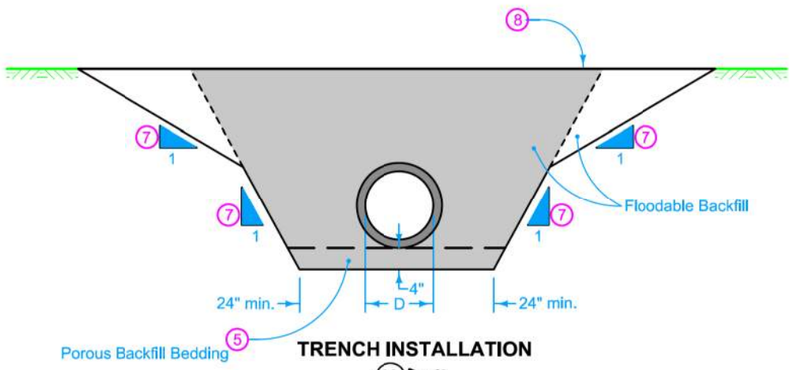
NO.	BY DATE	REVISION

DRAWN BY: BLF
PROJECT NUMBER: 20-05-48-01
CHKD BY:
DATE: MARCH 2022

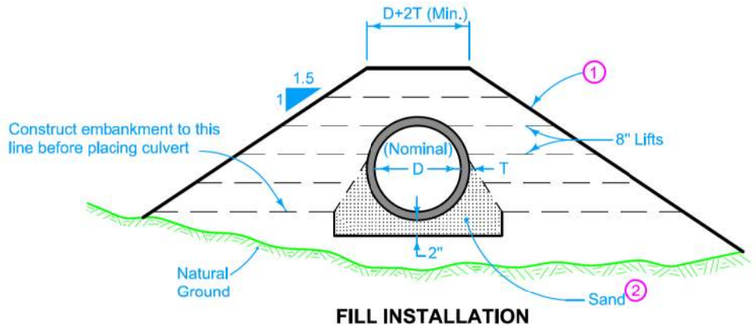
SHEET No:
B.02



TRENCH INSTALLATION
(H) ≤ 4'



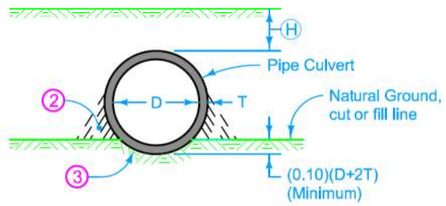
TRENCH INSTALLATION
(H) > 4'



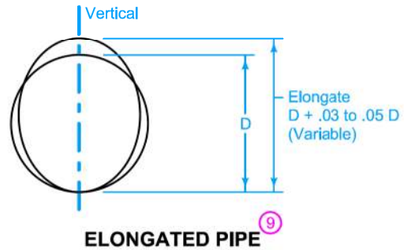
FILL INSTALLATION
(FOR RIGID PIPES ONLY)

CLASS 'B' BEDDING & BACKFILL (4)

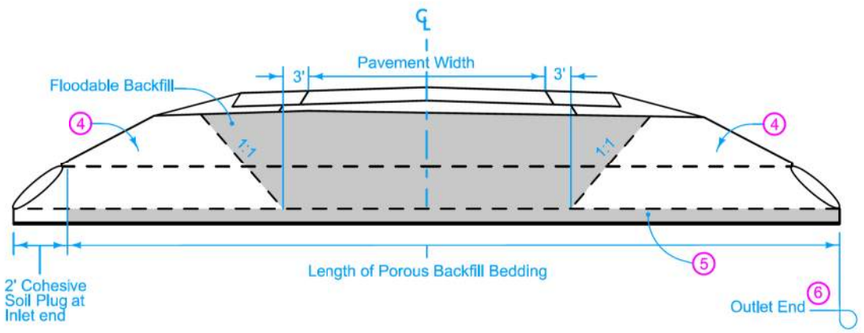
Denotes pay limits for flooded backfill



CLASS 'C' BEDDING & BACKFILL



ELONGATED PIPE (9)



TYPICAL SECTION - SOIL PLUG

Refer to DR-104 for minimum and maximum allowable cover (H) for the particular kind of pipe culvert.

1. The backfill adjacent to and above the pipe culvert may be placed in conjunction with normal embankment construction. Thoroughly tamp the embankment within the limits shown.
2. Take extra care to ensure complete and satisfactory tamping of backfill material in the area immediately adjacent to the lower portion of pipe.
3. Carefully shape excavation below groundline either using a template conforming to actual dimension and shape of the pipe or using other means. If using other means, check with a template conforming to the actual dimension and shape of the pipe.
4. For culverts backfilled by flooding, place a cohesive soil plug at the inlet, outlet, and, when necessary, sides, prior to flooding.
5. 4-inch Porous Backfill bedding. 2-inch Floodable Backfill bedding may be used under unsealed rigid pipe.
6. Extend Porous Backfill through the outlet end soil plug when used for bedding.
7. Quantity calculations are based upon a 1:1 slope and minimum trench dimension. Actual slope of trench may vary based upon Contractor's operations.
8. Ground Line at time of pipe installation. When existing ground exceeds 5 feet depth over pipe, backfill and compaction by flooding is not required more than 5 feet above the pipe.
9. Where a corrugated metal pipe culvert requiring elongation is to be installed (to counteract deformation caused by backfill), complete elongation using a means approved by the Engineer. Elongation may be developed either as part of shop fabrication or field installation. Install with elongated axis vertical.

Possible Contract Items:
Flowable Mortar
Flooded Backfill
Excavation, Class 20

Possible Tabulations:
104-3
104-4

IOWADOT

STANDARD ROAD PLAN

REVISION 2 04-18-17

DR-101

SHEET 1 of 1

REVISIONS: Changed "Porous Backfill" to "Porous Backfill Bedding" for clarity. Modified trench installation detail for H>4' to clarify pay limits.

Brian Smith
APPROVED BY DESIGN METHODS ENGINEER

PIPE CULVERT
(BEDDING AND BACKFILL)

CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES
ENGINEERING SERVICES - WALLACE BUILING
502 E. 9TH ST., DES MOINES, IA 50319-0034

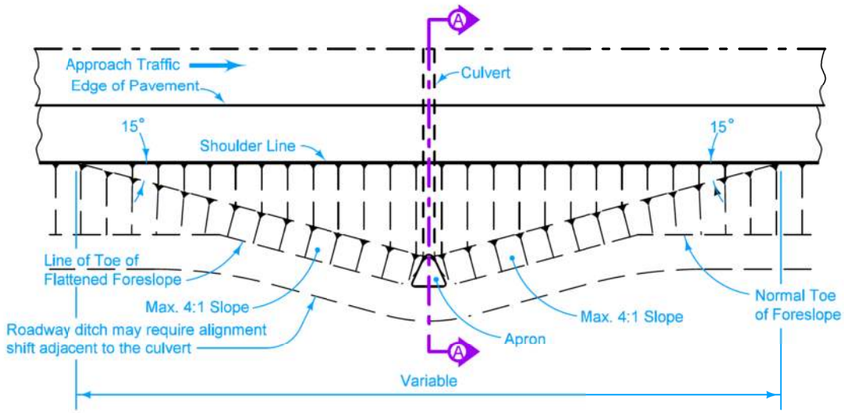
TYPICAL CROSS SECTIONS AND DETAILS

ROAD MAINTENANCE FOR:
RANDOLPH ACCESS WMA
IOWA COUNTY

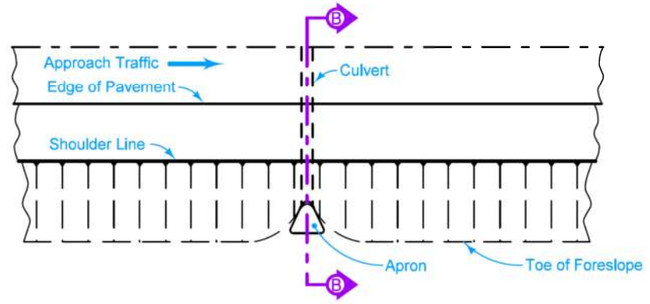
NO	BY / DATE	REVISION

DRAWN BY: BLF
PROJECT NUMBER: 20-05-48-01
CHKD BY:
DATE: MARCH 2022
SHEET No:

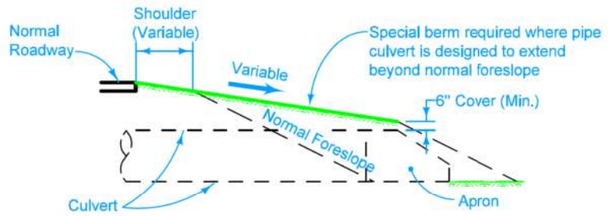
B.03



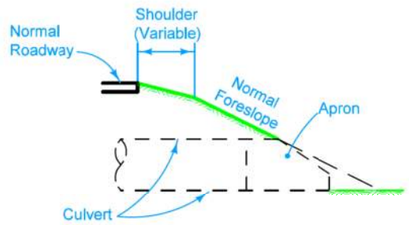
TYPICAL INSTALLATION PLAN
WHERE SPECIAL BERM IS REQUIRED



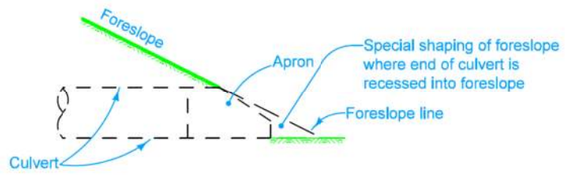
TYPICAL INSTALLATION PLAN
WHERE CULVERT MATCHES NORMAL FORESLOPE



SECTION A-A



SECTION B-B



DETAIL OF SHAPING EARTH FORESLOPE
AT CULVERT END

IOWA DOT
STANDARD ROAD PLAN

REVISION
New 04-21-15

DR-103
SHEET 1 of 1

REVISIONS: New. Replaces RF-30C.

Brian Smith
APPROVED BY DESIGN METHODS ENGINEER

PIPE CULVERT
(INSTALLATION DETAILS)

CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES
ENGINEERING SERVICES - WALLACE BUILING
502 E. 9TH ST., DES MOINES, IA 50319-0034

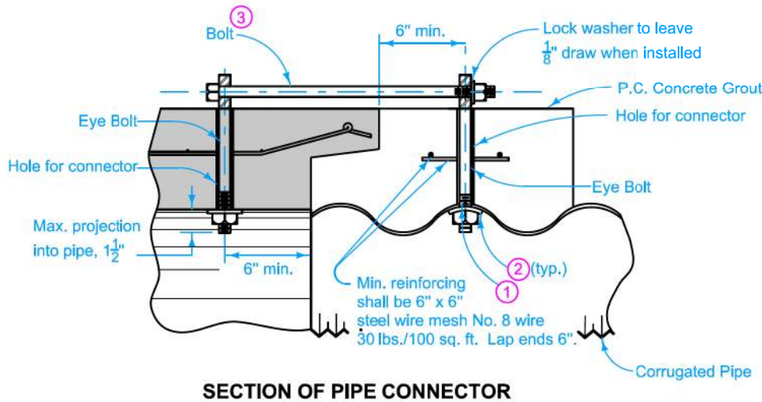
TYPICAL CROSS SECTIONS AND DETAILS

ROAD MAINTENANCE FOR:
RANDOLPH ACCESS WMA
IOWA COUNTY

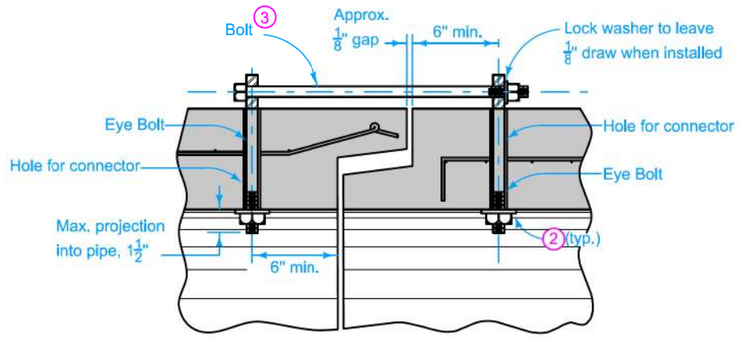
NO.	BY / DATE	REVISION

DRAWN BY: BLF
PROJECT NUMBER: 20-05-48-01
CHKD BY:
DATE: MARCH 2022

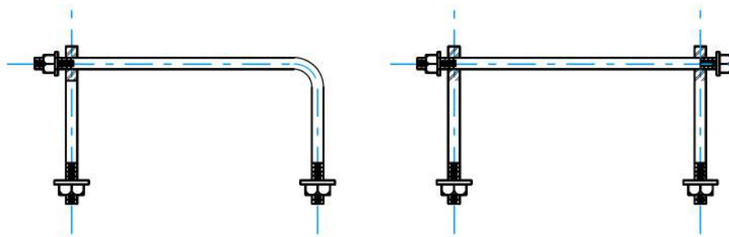
SHEET No:
B.04



SECTION OF PIPE CONNECTOR
(Concrete Pipe to Corrugated Pipe)

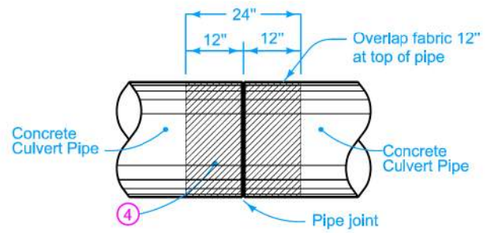


SECTION OF PIPE CONNECTOR
(Concrete Pipe to Concrete Pipe)



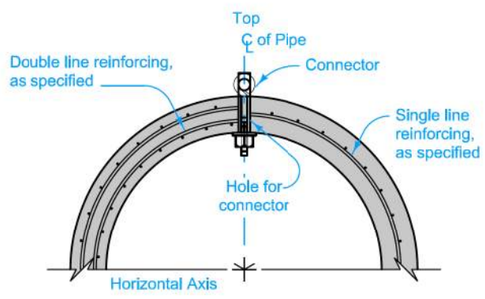
ONE BEND END **THREADED AT BOTH ENDS**

OPTIONAL BOLTS/CONNECTORS

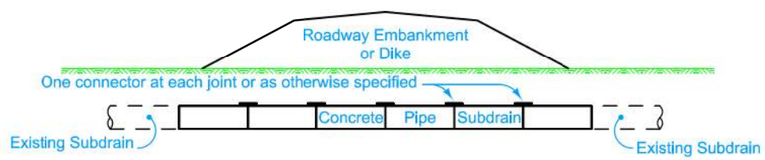


PIPE JOINT WRAPPING

PIPE SIZE (in)	CONNECTOR AND BOLT SIZE (in.)	HOLE FOR CONNECTOR (in.)
12 to 27	5/8	7/8
30 to 60	3/4	1.0
66 to 132	1.0	1 1/4



TYPICAL SECTION
(Non-Sealed Joint)



TYPICAL INSTALLATION

TYPE 1 CONNECTION

Wrap all joints on concrete roadway pipe culverts.

Use Type 3 Connections on all culvert pipes, unless specified otherwise. Refer to Materials I.M. 445.01 for Connector requirements.

Minimum 2 threads showing at all threaded ends.

Connections not required on pipe sections installed by trenchless methods.

For belled concrete pipe joints, connectors may be installed on the inside of the pipe.

TYPE 1

One connector at the top of the pipe section.

TYPE 2 (Sealed Joint)

Two connectors near the top of the pipe section. For details of reinforcement, refer to AASHTO M 170 for the class of pipe required. Refer to Materials I.M. 491.09 for seal requirements.

TYPE 3 (Non - Sealed Joint)

Two connectors near the top of the pipe section. For details of reinforcement, refer to AASHTO M 170 for the class of pipe required.

1. If holes are field drilled, place a ribbon of butyl sealant around bolts before placing 3 in. x 3 in. x 1/4 in. plate on bolts through corrugated metal pipe and tightening nuts.
2. 1 3/4 inch round x 9/64 inch thick washer or 3 in. x 3 in. x 1/4 in. square plate (shaped to pipe radius).
3. Connectors with One Bend End and Bell End spacers allowed per Materials I.M. 451. Refer to Optional Bolts detail.
4. Engineering fabric for embankment erosion control.

Possible Tabulations:
104-3
104-5B

IOWA DOT

STANDARD ROAD PLAN

REVISION 3 10-17-17

DR-121

SHEET 1 of 2

REVISIONS: Added 104-5B to Possible Tabulations. Added Type 3 connection to storm sewer outlet.

Brian Smith
APPROVED BY DESIGN METHODS ENGINEER

CONNECTED PIPE JOINTS

CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES
ENGINEERING SERVICES - WALLACE BUILING
502 E. 9TH ST., DES MOINES, IA 50319-0034

DNR

TYPICAL CROSS SECTIONS AND DETAILS

ROAD MAINTENANCE FOR:
RANDOLPH ACCESS WMA
IOWA COUNTY

NO.	BY DATE	REVISION

DRAWN BY: BLF
PROJECT NUMBER: 20-05-48-01
CHKD BY:
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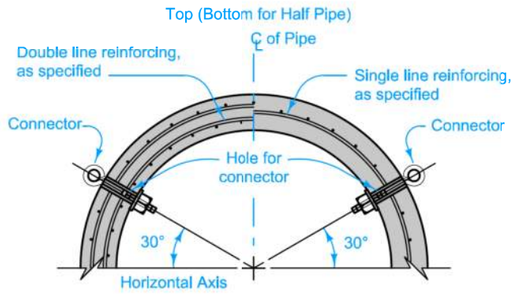
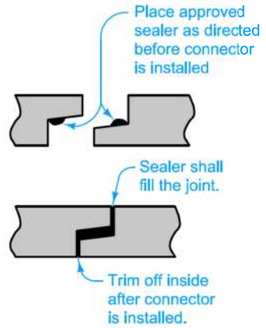
SHEET No: B.05

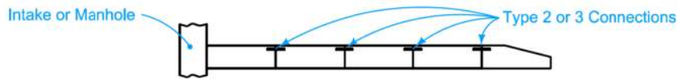


TYPICAL SECTION
TYPE 2 CONNECTION
TYPE 3 CONNECTION

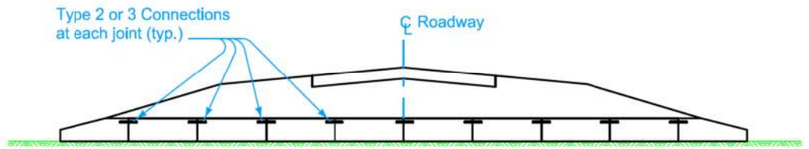


SEALED JOINT
TYPE 2 CONNECTION

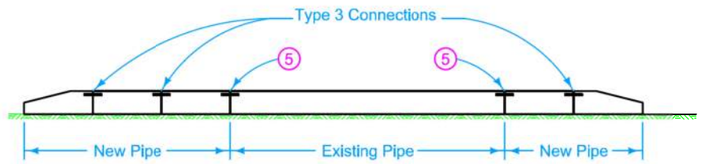
(5) On culvert extensions, connect all new joints including the joint between the old and new culvert pipe. Holes may need to be drilled into existing pipes.



TYPICAL INSTALLATION
STORM SEWER OUTLET - TYPE 2 OR TYPE 3 CONNECTION



TYPICAL INSTALLATION
NEW CONSTRUCTION - TYPE 2 or 3 CONNECTION



TYPICAL INSTALLATION
PIPE EXTENSION - TYPE 3 CONNECTION

TYPE 2 AND TYPE 3 CONNECTIONS

IOWA DOT
STANDARD ROAD PLAN

REVISION	
3	10-17-17

DR-121
SHEET 2 of 2

REVISIONS: Added 104-5B to Possible Tabulations. Added Type 3 connection to storm sewer outlet.

Brian Smith
APPROVED BY DESIGN METHODS ENGINEER

CONNECTED PIPE JOINTS

CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES
ENGINEERING SERVICES - WALLACE BUILING
502 E. 9TH ST., DES MOINES, IA 50319-0034

TYPICAL CROSS SECTIONS AND DETAILS

ROAD MAINTENANCE FOR:
RANDOLPH ACCESS WMA
IOWA COUNTY

NO	BY / DATE	REVISION

DRAWN BY: BLF
PROJECT NUMBER: 20-05-48-01
CHKD BY:
DATE: MARCH 2022

SHEET No:
B.06

ESTIMATED PROJECT QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
1	2101 - CLEARING	ACRE	4
2	2102 - SPECIAL BACKFILL	TON	28
3	2102 - EXCAVATION, CL 10, RDWY+BORROW	CY	42
4	2125 - RESHAPING DITCHES	STA	4
5	2127 - RECONSTRUCTION OF ROADBED - BLADING/SHAPING	STA	42.4
6	2312 - GRANULAR SURFACING ON ROAD, CLASS A CRUSHED STONE	TON	908
7	2301 - STD/S-F PCC PAV'T, CL C CL 3I, 9"	SY	100
8	2416 - APRON, CONC, 36"	EACH	4
9	2416 - CULV, CONC RDWY PIPE, 36"	LF	80
10	2507 - EROSION STONE	TON	20
11	2507 - MACADAM STONE	TON	40
12	2528 - SAFETY CLOSURE	EACH	1
13	2528 - LANE CLOSURE TC-213	EACH	1
14	2528 - TRAFFIC CONTROL	LS	1
15	2528 - FLAGGER	EACH	4
16	2533 - MOBILIZATION	LS	1
17	2599 - SAW JOINT	LF	60
18	2601 - SEED+FERTILIZE (RURAL)	ACRE	1

ESTIMATE REFERENCE INFORMATION

ITEM NO.	DESCRIPTION
1	A. Clear ALL trees and brush, 6-inches in diameter and smaller, within 20 feet of both edges of roadway. B. Trees/brush may be cleared in any manner allowed - cutting, grinding, chipping, fecon, etc. C. Trees/brush chipped and/or grinded may be left where they land. Cut trees/brush must be removed from project site.
2	A. Place and compact 6-inches of special backfill under new PCC.
3	A. A. Remove 15-inches of existing gravel/soil in area of new PCC. B. The top 6-inches may be placed on the existing roadway at the direction of the DNR Field Engineer. All remaining spoil to be removed from project site.
4	A. Clean ditches for 1 station either side of new culvert inlet for positive flow to inlet. B. Remove any excess spoil from project site.
5	A. Repair all potholes by scarifying surrounding area to depth of pothole and recompacting. B. Re-establish roadway crown; 4% positive drainage each way from centerline and 4% across the width of banked sections. C. Remove any high shoulders before spreading new rock. D. See sheet B.01 for typical radway cross section.
6	A. A final leveling of the aggregate after spreading is required. B. Roll aggregate after spreading. C. DOT approved source.
7	A. DNR Field Enginner will mark limits of PCC. B. Match existing roadway grade as much as possible. C. See saw joint detail sheet B.0X D. Crown new PCC 2% away from centerline saw joint. E. Class C mix - submit mix design for approval before beginning. F. Dot approved source - plant. G. Minimum 48 hour notice to DNR Field Engineer before pour(s).
8/9	A. DNR Field Engineer will set Inlet/Outlet flowline elevations. B. Wrap and pin all connections - use Type 3 connections, see detail sheet B.0X. C. Dispose of existing culvert off project site.
10	A. Place 5 ton at each Inlet and outlet of new culverts. B. Dot approved source.

ESTIMATE REFERENCE INFORMATION

ITEM NO.	DESCRIPTION
11	A. Place as shown on plans, and/or at the direction of the DNR Field Engineer. B. Dot approved source.
12	A. Follow Iowa DOT Specification 2528 for set-up details.
13	A. 10 - day notice minimum for lane closure. B. Follow TC - 213 for set-up. Sheet B.02
17	A. Saw cut 2-inches off existing shoulder pavement for good jointing with new PCC. B. Remove from project site.
18	A. Seed and fertilize all distrubed areas. B. DOT approved source.

GENERAL NOTES ON SHEET C.02

CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES
ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034

QUANTITIES AND GENERAL INFORMATION

ROAD MAINTENANCE FOR:
RANDOLPH ACCESS WMA
IOWA COUNTY

NO.	BY / DATE	REVISION

DRAWN BY: BLF
PROJECT NUMBER: 20-05-48-01
CHK'D BY:
DATE: MARCH 2022

SHEET No: C.01

GENERAL NOTES

Verify actual locations and elevations with DNR Engineer.

All work shall conform to and be performed in accordance with all applicable codes and ordinances.

The contractor shall visit the site and inspect the project area and thoroughly familiarize themselves with the actual job conditions prior to bidding and the start of work. Failure to visit the project site shall not relieve the contractor from performing the work in accordance to the plans, specification, special provisions and contract.

The contractor shall verify, at the site, all dimensions and conditions shown on the plans and shall notify the DNR Engineer of any discrepancies, omissions, and/or conflicts prior to proceeding with the work.

It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. No payment for overhaul will be allowed for material hauled to these sites. No material shall be placed within the right-of-way, unless specifically stated in the plans or approved by the DNR Engineer.

The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of the DNR Engineer.

Where utilities and fixtures are shown as Existing on the plans or encountered within the construction area, it shall be the responsibility of the contractor to notify the DNR Engineer of those utilities prior to the beginning of any construction. The contractor shall be afforded access to these facilities for necessary modification of services. Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. It is possible there may be others, the existence of which is presently not known or shown. It is the contractor's responsibility to determine their existence and exact location and to avoid damage thereto. No claims for additional compensation will be allowed to the contractor for any interference or delay caused by such work.

The contractor shall shape graded area to maintain surface drainage. All elevations are to finish grade.

The contractor is expected to have materials, equipment, and labor available on a daily basis to install and maintain erosion control features on the project. This may involve seeding, silt fence, rock ditch checks, silt basins or silt dikes.

NO WORK FROM 12 NOON FRIDAYS, UNTIL THE FOLLOWING MONDAY.

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QUANTITIES AND GENERAL INFORMATION

ROAD MAINTENANCE FOR:
RANDOLPH ACCESS WMA
IOWA COUNTY

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DATE: MARCH 2022

SHEET No:
C.02

Clearing		Apron, Conc, 36"
0+00	43+20	5+00
6' - 26' Left and Right		25+00
1 LS		2 EACH
Special Backfill		Culv, Conc Rdwy Pipe, 36"
0+00	0+30	5+00
28 TON		25+00
Class 10 Excavation		60 LF
0+00	0+30	Erosion Stone
42 CY		5+00; Inlet/Outlet
Reshaping Ditches		25+00; Inlet/Outlet
4+00	6+00	20 TON
24+00	26+00	Macadam Stone
Inlet Side Only		32+50
4 STA		40 TON
Blading/Shaping		Safety Closure
0+00	43+20	0+00
42.4 STA		1 EACH
Crushed Stone		Seed & Fertilize (Rural)
0+00	43+20	0+00 43+20
756 TON		As Needed
2301 - STD/S-F PCC PAV'T, CL C CL 3I, 9"		1 ACRE
0+00	30+00	
100 SY		

CONSULTANT:

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ENGINEERING SERVICES - WALLACE BUILING
502 E. 9TH ST., DES MOINES, IA 50319-0034

SITE PLAN

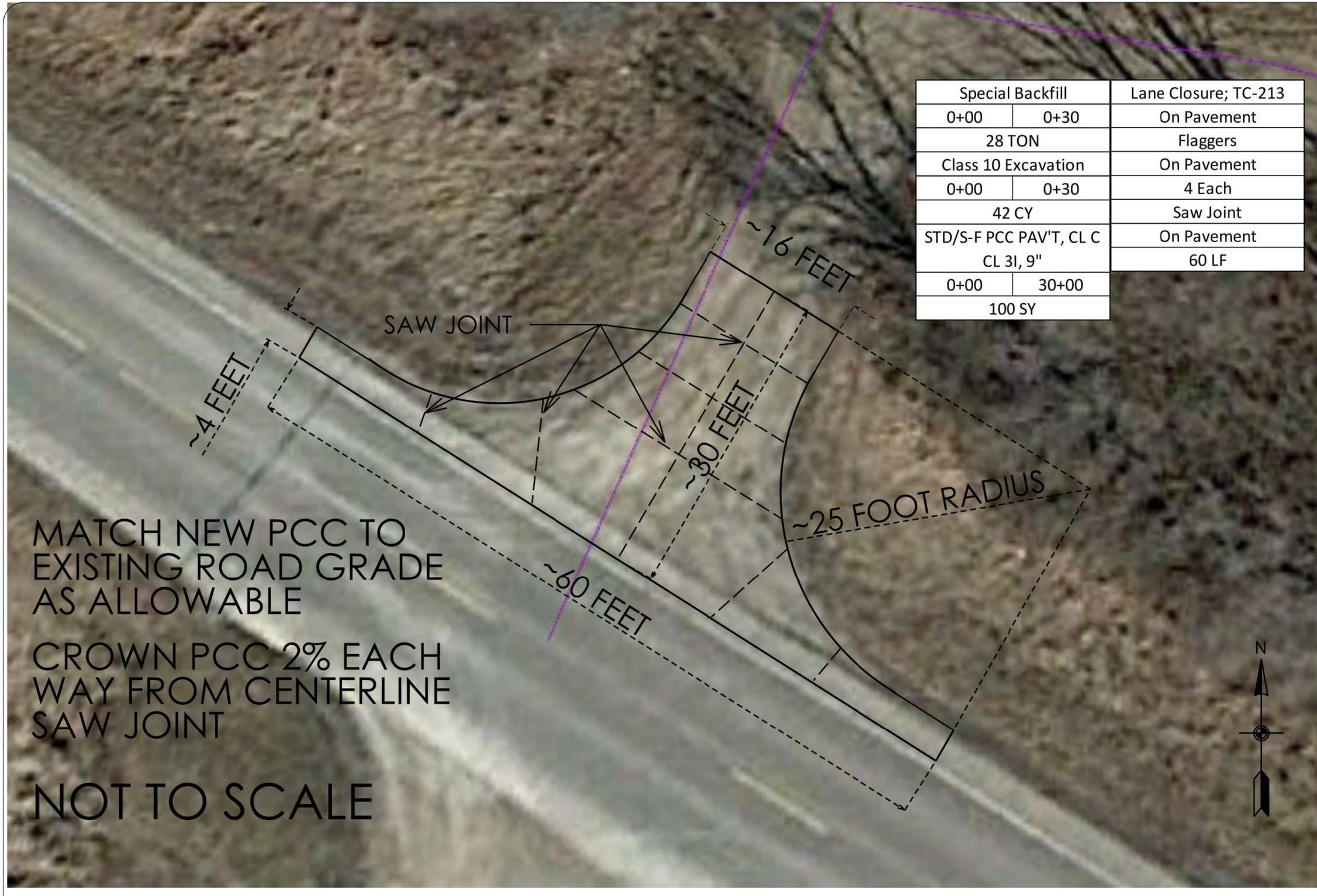
ROAD MAINTENANCE FOR:
RANDOLPH ACCESS WMA

IOWA COUNTY

NO.	BY DATE	REVISION

DRAWN BY: BLF
PROJECT NUMBER: 20-05-48-01
CHKD BY:
DATE: MARCH 2022

SHEET No:
D.01



Special Backfill	
0+00	0+30
28 TON	
Class 10 Excavation	
0+00	0+30
42 CY	
STD/S-F PCC PAV'T, CL C CL 3I, 9"	
0+00	30+00
100 SY	

Lane Closure; TC-213
On Pavement
Flaggers
On Pavement
4 Each
Saw Joint
On Pavement
60 LF

CONSULTANT:

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ENGINEERING SERVICES - WALLACE BUILING
502 E. 9TH ST., DES MOINES, IA 50319-0034

SITE PLAN

ROAD MAINTENANCE FOR:
RANDOLPH ACCESS WMA

IOWA COUNTY

NO.	BY DATE	REVISION

DRAWN BY: BLF
PROJECT NUMBER: 20-05-48-01
CHKD BY:
DATE: MARCH 2022

SHEET No:
D.02