

PROJECT TRAFFIC CONTROL PLAN

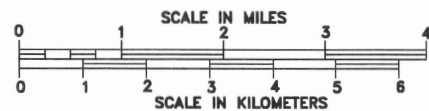
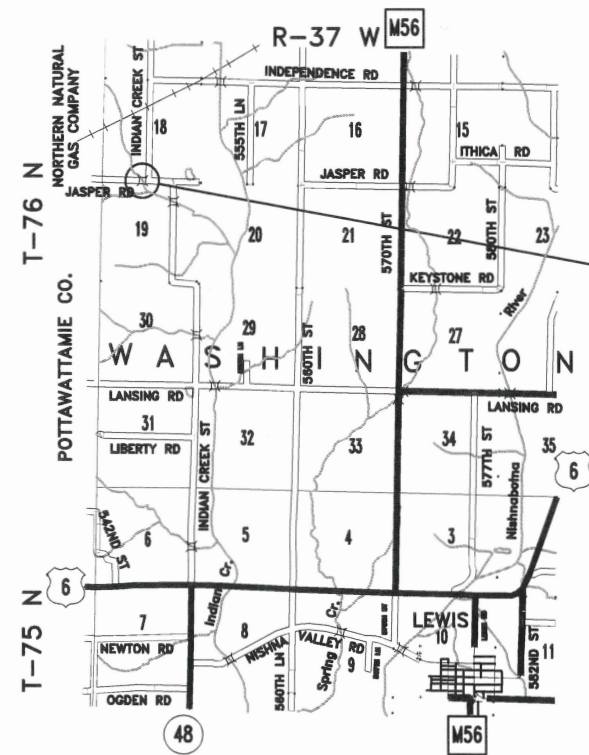
THIS ROAD WILL BE CLOSED TO THRU TRAFFIC DURING CONSTRUCTION. LOCAL TRAFFIC TO PROPERTY ADJACENT TO CONSTRUCTION WILL BE MAINTAINED AS PROVIDED FOR IN ARTICLE 1107.08, 2023 STANDARD SPECIFICATIONS. TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING AND PAVEMENT MARKINGS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE IAC CHAPTER 130. CASS COUNTY WILL FURNISH, INSTALL AND MAINTAIN SIGNS FOR A DETOUR ROUTE.

OFFICE OF COUNTY ENGINEER (712) 243-2442

UTILITY CONTACT INFORMATION CAN BE FOUND ON SHEET 3.



Scales: As Noted



IOWA
DEPARTMENT OF TRANSPORTATION

HIGHWAY DIVISION

PLANS FOR PROPOSED IMPROVEMENT
ON THE SECONDARY ROAD SYSTEM

CASS COUNTY

PROJECT NO. BROS-C015(90)--8J-15

RCB CULVERT NEW - TWIN BOX

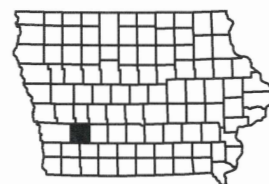
ON JASPER ROAD, OVER CREEK, S19 T76N R37W

Refer to the Proposal Form for list of applicable specifications.

Construct this project according to the requirements of U.S. Army Corps of Engineers Rock Island District, Nationwide Permit No. 14. Nationwide permit 14 conditions can be found at (<http://www.mvr.usace.army.mil/regulatory/permits/>). The U.S. Army Corps of Engineers reserves the right to visit the site without prior notice.

This project is covered by the Iowa Department of Natural Resources NPDES General Permit No. 2. The contractor shall carry out the terms and conditions of General Permit No. 2 and the storm water pollution prevention plan which is a part of these contract documents. Refer to Section 2602 of the Standard Specifications for additional information.

PROJECT LOCATION: STA. 20+95.00, ON JASPER ROAD
BRIDGE NO. 330 OVER A TRIBUTARY OF INDIAN CREEK
FHWA NO. 099960, SECT 18&19 T-76N, R-37W
PROPOSED: TWIN 10' SPAN X 10' HEIGHT X 70' LONG
REINFORCED CONCRETE BOX CULVERT WITH 0' SKEW FLARED
INLET HEADWALL AND 0' SKEW PARALLEL OUTLET HEADWALL
BOP: STA. 19+00.00, EOP: STA. 23+00.00



2024 AADT 30 V.P.D.

FHWA #099960

PROJECT NUMBER: BROS-C015(90)--8J-15

INDEX OF SHEETS

No.	Description
1	TITLE SHEET
2	ESTIMATED QUANTITIES
3	GENERAL NOTES
4&5	POLLUTION PREVENTION PLAN
6	CULVERT SECTIONS
7	TYPICAL ROADWAY SECTION & TABULATIONS
8	SITUATION PLAN

MILEAGE SUMMARY

Div.	Location	Lin.Ft.	Miles
	BOP STA. 19+00 TO EOP STA. 23+00	400.00	0.076
	INCLUDES CULVERT #330 AT STA. 20+95	23.00	0.004
	TOTAL LENGTH =	400.00	0.076

IOWA D.O.T. TWIN RCB CULVERT STANDARDS

The following Standard Plans shall be considered applicable to construction work on this project.

Standard	Date Issued	Revision Date
TWFWH G1-21	Feb 2021	---
TWFWH O-1-21	Feb 2021	---
TWFWH O-2-21	Feb 2021	---
TWFWH O-3-21	Feb 2021	---
TWFWH O-5-21	Feb 2021	---
TWRCB G1-20	July 2020	---
TWRCB G2-20	July 2020	---
TWRCB G3-20	July 2020	---
TWRCB 10-10-20	July 2020	---
TWPWH O-1-20	July 2020	---
TWPWH O-2-20	July 2020	August 2022
TWPWH O-3-20	July 2020	---
TWPWH O-4-20	July 2020	---
TWPWH O-5-20	July 2020	---
TWPWH O-7-20	July 2020	---

SEE IOWA DOT STANDARD ROAD PLANS ON SHEET NO. 2

	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.
	Trent Wolken Date May 5, 2024
	My license renewal date is December 31, 2026
	Pages or sheets covered by this seal: 1-8

Steve Bain
Bernard Pittenger
Mark O'Brien
W. J. [Signature]
Cass County Board of Supervisors
Date: May 5, 2024

ESTIMATED QUANTITIES				
NO.	ITEM CODE	DESCRIPTION	UNIT	QUANTITY
1	2102–2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CU. YDS.	1600.00
2	2105–8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CU. YDS.	200.00
3	2312–8260081	GRANULAR SURFACING ON ROAD, CLASS D CR STONE	TONS	200.00
4	2401–6745625	REMOVAL OF EXISTING BRIDGE	L. S.	1.00
5	2402–2720000	EXCAVATION, CLASS 20	CU. YDS.	1000.00
6	2402–2725005	FOUNDATION TREATMENT MATERIAL	TONS	100.00
7	2403–0100020	STRUCTURAL CONCRETE (RCB CULVERT)	CU. YDS.	285.50
8	2404–7775000	REINFORCING STEEL	LBS	42389.00
9	2418–0000010	TEMPORARY STREAM DIVERSION	EACH	1.00
10	2528–2518000	SAFETY CLOSURE	EACH	2.00
11	2528–8445110	TRAFFIC CONTROL	L. S.	1.00
12	2533–4980005	MOBILIZATION	L. S.	1.00
13	2555–0000010	DELIVER AND STOCKPILE MATERIALS	L. S.	1.00
14	2601–2634100	MULCH	ACRES	1.00
15	2601–2636043	SEEDING AND FERTILIZING (RURAL)	ACRES	1.00
16	2602–0000312	SLOPE SEDIMENT CONTROL DEVICE, 12" DIA.	LIN. FT.	960.00
17	2602–0010010	MOBILIZATION, EROSION CONTROL	EACH	1.00

- NO.
- ITEM REFERENCE NOTES
- 1

Construction of roadway embankment requires 1,600 cubic yards of fill material including 30% for shrinkage. 100 cubic yards is available from Roadway ditch cuts and 1,000 cubic yards is available from suitable Class 20 excavation. The remaining 500 cubic yards of roadway fill material will be excavated from other road right of way and hauled to the site by Cass County as needed There will be no cost to the contractor for material hauled to the site. Type "A" compaction will be required. The plan quantity will be the quantity for payment.
- 2

Topsoil shall be spread uniformly to a minimum depth of 4 inches.
- 3

Material shall be class "D" crushed stone.
- 4

The existing structure at Station 20+95 is a precast beam bridge 20' X 51' long with concrete caps and wood piles. The precast channel bridge deck beams (including metal handrail and wedge washers) shall remain the property of Cass County. The contractor shall drill 12 neat circular holes (two each channel) in each precast channel suitable for lifting channels during removal and reuse. The contractor shall take care to not damage the salvaged channels. See general notes on sheet No. 3 for asbestos containing materials.
- 5

Includes excavation for foundation treatment. Includes bank shaping inside of the TCE limits for a smooth transition to the RCBC headwalls. The plan quantity will be the quantity for payment.
- 6

Material shall be class "D" crushed stone.
- 7

All structural concrete mix shall be class "C". PCC plant inspection to be done by Cass County.
- 13

The Contractor shall load salvaged materials on Cass County trucks, on site, as directed by the Engineer.
- 16

See tab on sheet 7.

STANDARD ROAD PLANS		
The following Standard Plans shall be considered applicable to construction work on this project.		
Number	Date	Title
EC–201	4–20–21	Silt Fence
EC–204	10–19–21	Perimeter, Slope and Ditch Check Sediment Control Devices
EW–101	10–17–17	Embankment and Rebuilding Embankments
EW–102	10–20–15	Allowable Placement of Unsuitable Soil in Embankments
EW–401	10–20–15	Temporary Stream Crossing, Causeway, or equipment Pad
EW–402	4–18–17	Temporary Stream Diversion
TC–1	10–15–19	Work Not Affecting Traffic (Two–Lane or Multi–Lane)
TC–252	10–21–25	Routes Closed to Traffic

DESIGN FOR

TWIN 10' X 10' X 70'–0 REINFORCED

CONCRETE BOX CULVERT

ESTIMATED QUANTITIES

STA. 20+95 5' RT FWD SKEW

GENERAL NOTES

This design is for a twin 10' x 10' x 70' reinforced concrete box culvert with a twin 0° skew flared wing headwall on the inlet and a twin 0° skew parallel wing headwall on the outlet. The RCB culvert sections are designed for HL-93 live load and earth fill of eight to ten feet.

Road design data meets the Design Aids guidelines (I.M. 3.210) for rural local roads with under 50 to 250 vehicles per day in rolling terrain.

Access shall be maintained to individual properties during construction. This work shall be incidental to the project.

The contractor shall visit the construction site to ensure that he is familiar with the existing site conditions.

An inspection for the presents of asbestos containing materials was completed by Iowa Environmental Services Inc. (Scott Brown #23-114431) and expansion joint/channel bearing material was identified as asbestos containing (3%) material. Cass County or its agent will remove the asbestos containing material when practical. If other materials, suspected of containing asbestos, are found during demolition of the bridge, then work shall be stopped and the engineer notified.

The contractor is to use due caution in working over and around all tile lines. Breaks in the tile line due to the contractor's carelessness are to be replaced at his expense without cost to Cass County. Any tile lines broken or disturbed by our cut lines will be replaced as directed by the engineer at the County's expense.

Construction staking will be provided by Cass County. The contractor is responsible for conducting an independent check of all construction stakes placed for the project.

The contractor is encouraged to conduct construction activities during a period of low flow. Any temporary stream crossings shall include enough culverts to accommodate low flows and must be removed after completion of work on this project. The cost of installation, maintenance and removal of temporary crossings, including culverts, which is optional work, shall be incidental to the cost of structural concrete (RCB Culvert) (2403-0100020). Equipment for handling and conveying materials during construction shall be operated to prevent dumping or spilling the material into waterbodies, streams or wetlands. Construction equipment, activities and materials shall be kept out of the streams and wetlands to the maximum extent possible. Care shall be taken to prevent any petroleum products, chemicals or other deleterious materials from entering waterbodies, streams or wetlands.

Areas outside the easement area damaged by the contractor shall be repaired to their original condition with no additional payment for this work.

This project is covered under nationwide permit No. 14 as published in the Federal Register Notices (Vol 77 #34 Pg 10269) on February 21, 2012 provided nationwide permit conditions have been met.

Scrape samples of this bridge were taken to get an indication of the existence of and level of total chromium and total lead. The analysis of total chromium in the sample was 700 mg/kg. The analysis of the total lead in the sample was 192,000 mg/kg. The analysis shows the existence of these two toxic constituents. The levels indicated by these tests could create conditions above regulatory limits for health and safety requirements. No other substances, except asbestos, were analyzed. The bidder should not rely on the County's testing and analysis for any purpose other than as an indication of the existence of these constituents. A report of materials tested is on file in the county engineer's office.

UTILITY CONTACTS:

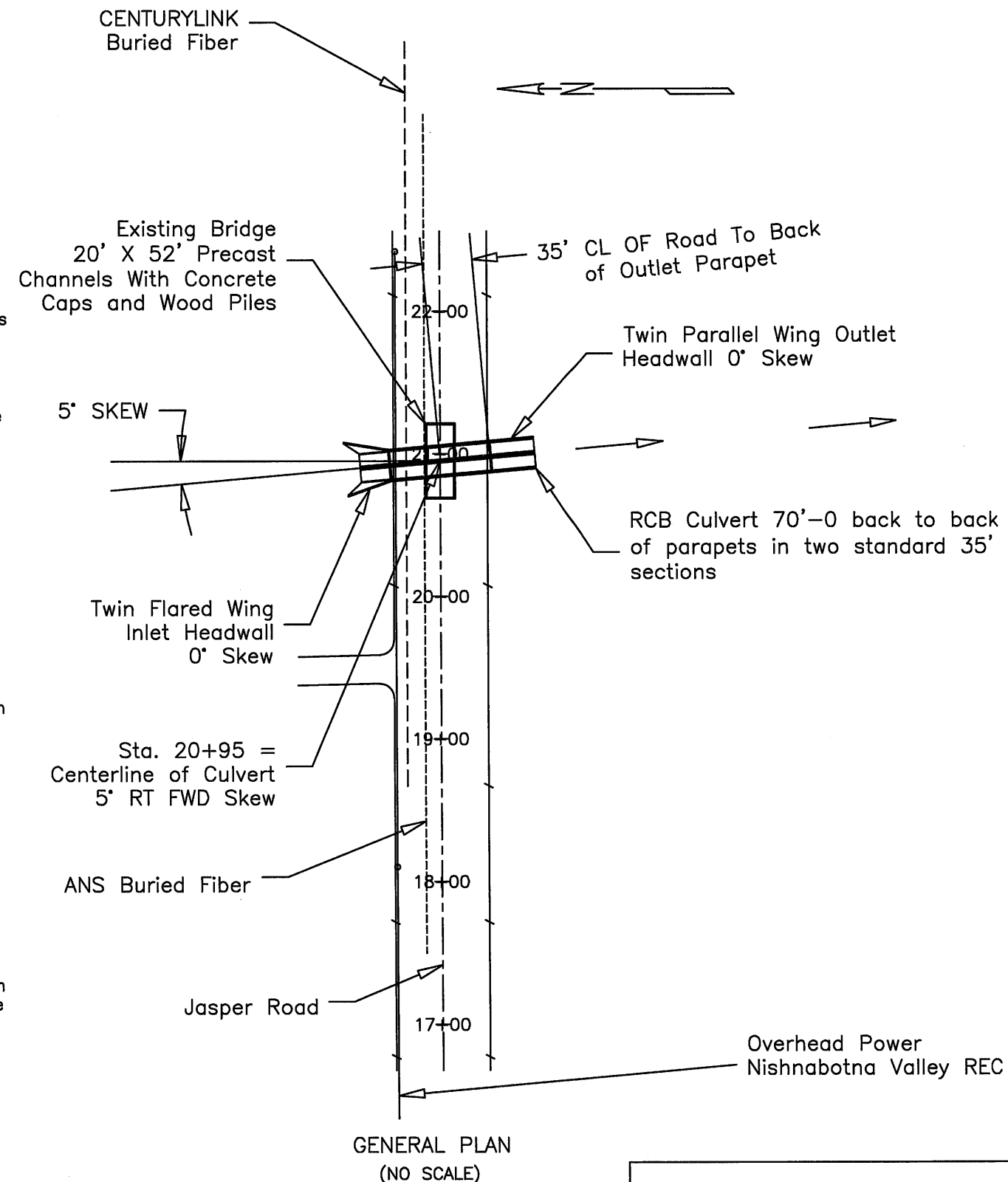
OVERHEAD POWER: Nishnabotna Valley REC, Dave Curren, 1-800-234-5122 or 712-755-2166, dcurren@nvrec.com

UTILITY CONTACTS:

FIBER: AUREON NETWORK SERVICES, JEFF KLOCKO, 515-830-0445, jeff.klocko@aureon.com

UTILITY CONTACTS:

TELEPHONE CO. FIBER: CENTURYLINK, SADIE HULL, 918-547-0147, sadie.hull@lumen.com



DESIGN FOR
TWIN 10' X 10' X 70'-0 REINFORCED
CONCRETE BOX CULVERT

GENERAL NOTES

STA. 20+95 5° RT FWD SKEW

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The Contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITIES

- A. Designer:

1. Prepares Base PPP included in the project plan.

2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.

3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required.
- B. Contractor:

1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.

2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.

3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.

4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).

5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2.

6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.

7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.

8. Submits amended PPP site map according to Section 2602 of the Standard Specifications.
- C. Subcontractors:

1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or performing work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.

2. Implement good housekeeping practices according to Paragraph III, C, 2.
- D. RCE/Project Engineer:

1. Is Project Storm Water Manager.

2. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.

3. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.

4. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.

5. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.

6. Is familiar with the Project PPP and storm water site map.

7. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.

8. Is signature authority on Notice of Discontinuation.

9. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).

10. Makes information to determine permit compliance available to the DNR upon their request.
- E. Inspector:

1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.

2. Makes information to determine permit compliance available to the DNR upon their request.

3. Conducts joint required inspections of the site with the contractor/subcontractor.

4. Completes an inspection report after each inspection.

5. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

- A. This Pollution Prevention Plan (PPP) is for the construction of a reinforced concrete box culvert.
- B. This PPP covers approximately 2.0 acres with an estimated 1.1 acres being disturbed. The portion of the PPP covered by this contract has 1.1 acres disturbed.
- C. The PPP is located in an area of one type of soil association, marshall-shelby. The estimated weighted average runoff coefficient number for this PPP after completion will be 0.23.

- D. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including:

1. Drainage Patterns - Plan and Profile sheets and Situation plans.

2. Proposed Slopes - Cross Sections.

3. Areas of Soil Disturbance - Construction limits shown on Plan and Profile sheets.

4. Location of Structural Controls - Tabulations.

5. Locations of Non-structural Controls - Tabulations.

6. Locations of Stabilization Practices - Generally within construction limits shown on the Situation Plan sheet.

7. Surface Waters (including wetlands) - Project Location Map and Situation Plan sheet.

8. Locations where Storm Water is Discharged - Situation Plan sheet.

- E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map.
- F. Runoff from this work will flow into a tributary of Indian Creek.

III. CONTROLS

- A. The Contractor's ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.
- B. Preserve vegetation in areas not needed for construction.
- C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.
1. EROSION AND SEDIMENT CONTROLS

a. Stabilization Practices

1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.

2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:

a) Permanently ceased on any portion of the site, or

b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.

3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.

4) Permanent and Temporary Stabilization practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets.

5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.

6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Additional information may be found in Tabulations in the C or T sheets or is referenced in Section 2105 of Standard Specifications.

b. Structural Practices

1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.

2) Structural practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found in the B sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C sheets.

c. Storm Water Management

Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets. The installation of these devices may be subject to Section 404 of the Clean Water Act.
- DESIGN FOR TWIN 10' X 10' X 70'-0 REINFORCED CONCRETE BOX CULVERT – POLLUTION PREVENTION PLAN
- Cass County
- PROJECT NUMBER: BROS-C015(90)--8J-15
- Sheet No. 4

2. OTHER CONTROLS

- Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive applicable laws, rules or regulations shall apply.
- Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
 - Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
 - Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
 - Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
 - Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up spills and prevent material discharges to the storm drain system and waters of the state.
 - Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
 - Concrete Grooving/Grinding Slurry - Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
 - Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
 - Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
 - Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.
3. APPROVED STATE OR LOCAL PLANS
- During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES

The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS

- Inspections shall be made jointly by the Contractor and the Contracting Authority's inspector at least once every seven calendar days. Storm water site inspections will include:
 - Date of the inspection.
 - Summary of the scope of the inspection.
 - Name and qualifications of the personnel making the inspection.
 - Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
 - Major observations related to the implementation of the PPP.
 - Identification of corrective actions required to maintain or modify erosion and sediment control measures.
- Include storm water site inspection reports in the amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

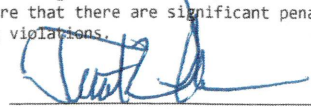
- Base PPP - Initial Pollution Prevention Plan.
- Amended PPP - Base PPP amended during construction. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.
- Fieldbook Entries - This contains the inspector's daily diary and bid item postings.
- Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
- Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature

Printed or Typed Name

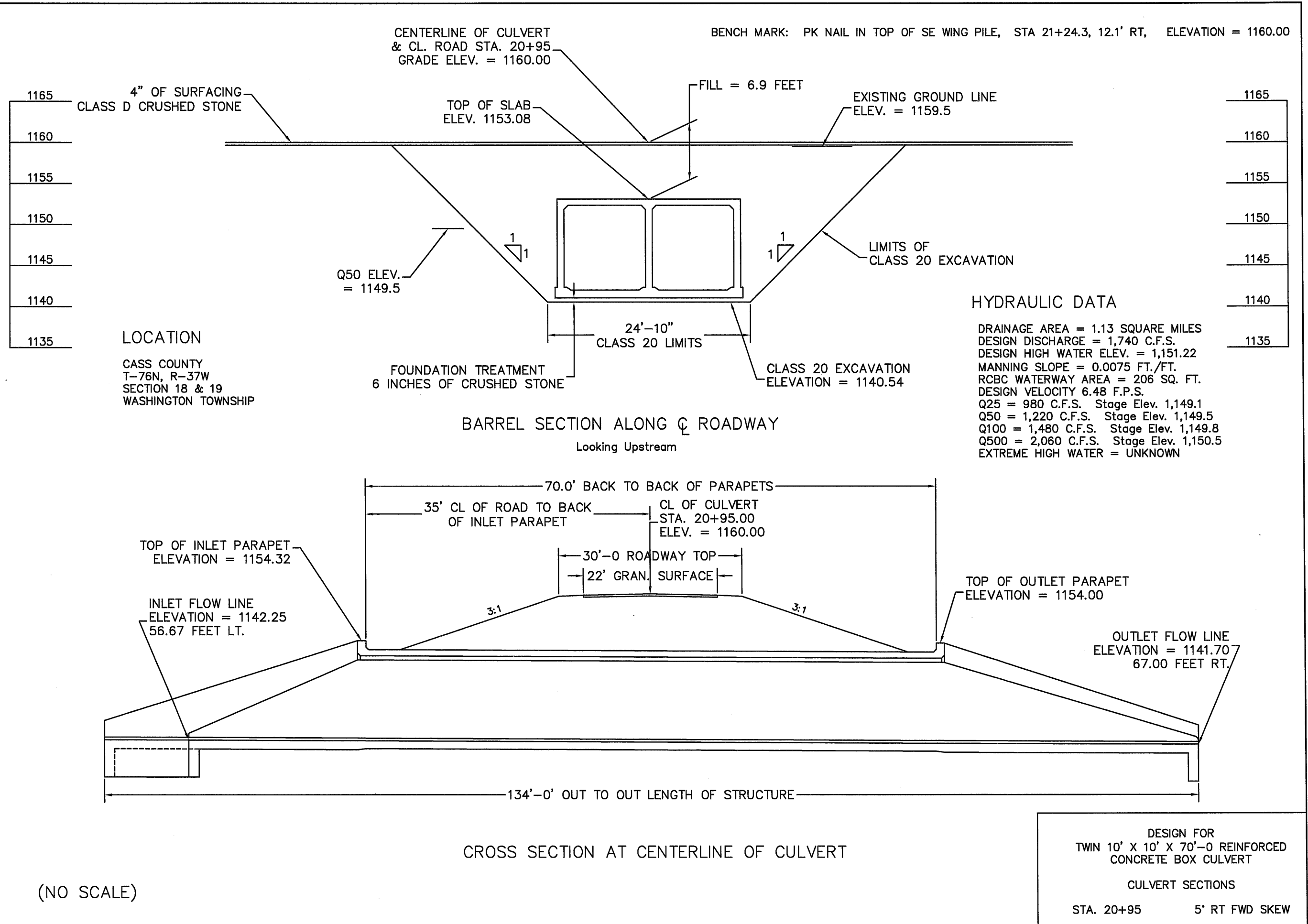

TRENT W. DOLEN

DESIGN FOR
TWIN 10' X 10' X 70'-0 REINFORCED
CONCRETE BOX CULVERT

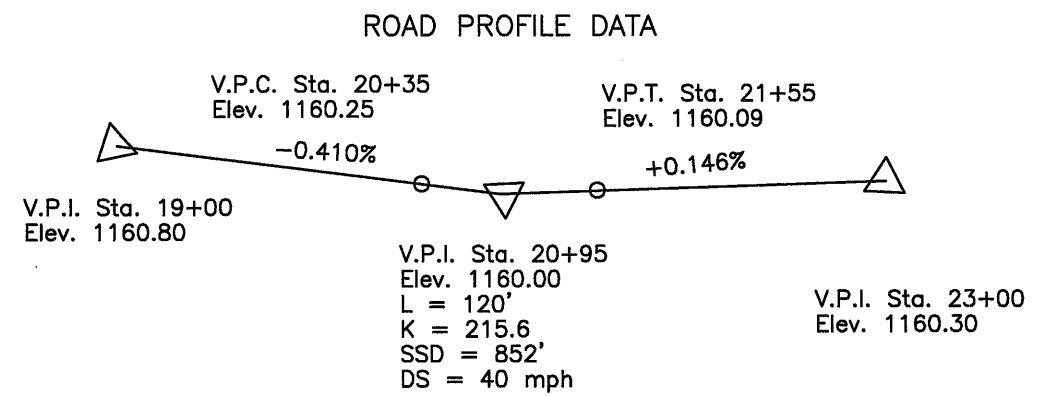
POLLUTION PREVENTION PLAN

STA. 20+95.00

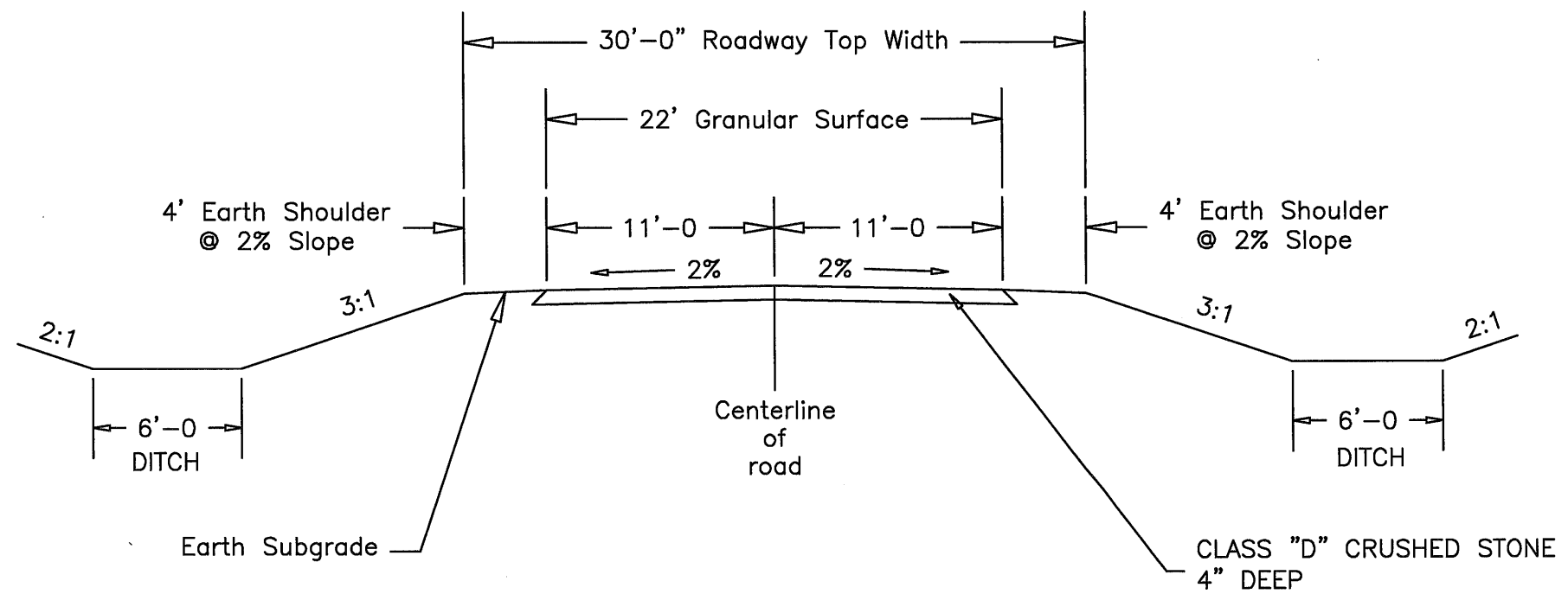
5' RT FWD SKEW



ROAD PROFILE GRADE ELEV.	
Station	Elevation
19+00	1160.80
19+25	1160.70
19+50	1160.59
19+75	1160.49
20+00	1160.39
20+25	1160.29
20+50	1160.18
20+75	1160.08
21+00	1160.00
21+25	1160.04
21+50	1160.07
21+75	1160.11
22+00	1160.15
22+25	1160.18
22+50	1160.22
22+75	1160.26
23+00	1160.30



TABULATION OF SAFETY CLOSURES			
Location	Closure Type		Remarks
Station	Road Quantity	Hazard Quantity	
19+00	1	0	West End
23+00	1	0	East End
Totals	2	0	



TYPICAL ROADWAY SECTION
(USE FROM STA. 19+00 TO STA. 23+00)

TABULATION OF EROSION CONTROL FEATURES			
Location	Side	Type of Work	
Station	LT or RT	Silt Fence (Lin. Ft.)	Slope Sediment Control Device (Lin. Ft.)
19+45	LT		160
19+45	RT		160
20+95	LT		160
20+95	RT		160
22+35	LT		160
22+35	RT		160
Totals		0	960

DESIGN FOR
TWIN 10' X 10' X 70'-0 REINFORCED
CONCRETE BOX CULVERT

TYPICAL SECTIONS
STA. 20+95 5' RT FWD SKEW

RCB CULVERT NEW - TWIN BOX
PROJECT NO: BROS-C015(90)--8J-15

CASS COUNTY

