



North Dakota Department of Transportation

Grant Levi, P.E.
Director

Jack Dalrymple
Governor

May 5, 2016

ADDENDUM 1 – JOB 10

TO: All prospective bidders on project BRO-0041(012), Job No. 10 scheduled for the May 13, 2016 bid opening.

The following plan and request for proposal revisions shall be made:

Plan Revisions:

See attached summary from Mike Bassingthwaite, PE; Interstate Engineering, dated May 4, 2016 for an explanation.

Request for Proposal Revisions:

Remove and replace page 9 of 11 of the Proposal pages located at the beginning of the Request for Proposal, with the enclosed page revised 5/5/2016.

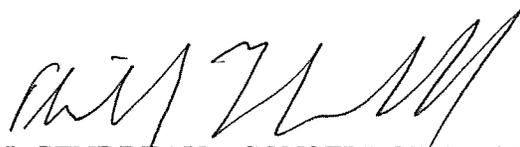
Page 9 of 11:

- Item 704 1000 TRAFFIC CONTROL SIGNS; quantity increased from 441 to 790 UNIT.
- Item 704 1052 TYPE III BARRICADE; quantity increased from 10 to 12 EA.

Add SP 5112(14) PERMITS AND ENVIRONMENTAL CONSIDERATIONS

This addendum is to be incorporated into the bidder's proposal for this project.

Expedite bid files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at <http://www.bidx.com/> or the Department's web page (<http://www.dot.nd.gov>) and load it into the Expedite program.


CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER
80:plm
Enclosure



May 4, 2016

ADDENDUM 1 JOB 10

TO: All prospective bidders on Project BRO-0041(012), Job #10, scheduled for the May 13, 2016 bid opening.

The following plan revision shall be made:

Plan Revisions:

1. **Remove and replace sheet 2-1 with the enclosed sheet revised 5/2/2016.** The number of section 170 sheets has been increased in the table of contents.
2. **Remove and replace sheet 8-1 with the enclosed sheet revised 5/2/2016.** The quantities of traffic control signs and type III barricades has been revised.
3. **Remove and replace sheet 20-1 with the enclosed sheet revised 5/2/2016.** Clarifying text has been added to the bridge closure detail.
4. **Remove and replace sheet 100-1 with the enclosed sheet revised 5/2/2016.** Three additional construction signs have been added to the project.
5. **Remove and replace sheet 100-2 with the enclosed sheet revised 5/2/2016.** The quantity of construction signs for the projects has been corrected and added to.
6. **Remove and replace sheet 170-1 with the enclosed sheet revised 5/2/2016.** Note 606-P01 has been revised. The contractor has been given the option of providing two lines of single cell box culvert in place of the previously specified double cell box culvert.
7. **Add sheet 170-6 (enclosed) dated 5/2/2016 to the plan set.** Requirements have been added for the two line of single cell box culvert option.

Proposal Revision:

Remove and replace the SP 5112(14) placeholder with the enclosed SP 5112(14) dated 5/4/2016.

The US Army Corp of Engineers 404 permit will be incorporated into the project by this SP.

This addendum is to be incorporated into the bidder's proposal for this project.

Mike Bassingthwaite
Mike Bassingthwaite, PE

MB:mb
Enclosure

Professionals you need, people you trust

BID ITEMS

Project: BRO-0041(012) (PCN-20039)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
033	606	1211	12FT X 11FT PRECAST RCB CULVERT	LF	56.				
034	606	3211	DBL 12FT X 11FT PRECAST RCB CULVERT	LF	56.				
035	606	5211	12FT X 11FT PRECAST RCB END SECTION	EA	2.				
036	606	7211	DBL 12FT X 11FT PRECAST RCB END SECTION	EA	2.				
037	702	0100	MOBILIZATION	L SUM	1.				
038	704	1000	TRAFFIC CONTROL SIGNS	UNIT	790.				
039	704	1052	TYPE III BARRICADE	EA	12.				
040	704	1060	DELINEATOR DRUMS	EA	10.				
041	709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	1,610.				
042	714	5035	PIPE CORR STEEL .064IN 24IN	LF	120.				
043	714	5820	END SECT CORR STEEL .064IN 24IN	EA	4.				
044	754	0805	OBJECT MARKERS - CULVERTS	EA	4.				
045	900	1000	TEMPORARY STREAM DIVERSION	EA	1.				
			TOTAL SUM BID						

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION (SP)
PERMITS AND ENVIRONMENTAL CONSIDERATIONS
BRO-0041(012) PCN: 20039

This Special Provision incorporates the US Department of Army Corps of Engineers (USACE) Nationwide Permit No. 23. The project as proposed consists of removing four structures, constructing two new box culvert crossings, placing riprap, roadway grading and incidentals.

The Contractor shall be responsible for complying with all the terms and conditions as contained in the permit attached hereto. Bidders shall become familiar with all standard conditions and special conditions of the permit and submit their bid for the construction of this project based on the following:

- **USACE Nationwide Permit No. 23**
USACE Permit NWO-2015-1482-BIS authorizes impacts with bridge construction, riprap placement, approach roadway grading and incidentals. Approximately 2.21 acres of temporary and 2.11 acres of permanent impacts to jurisdictional other waters will result from construction activities

The Contractor shall be responsible for obtaining permits for impacts not authorized by the attached permit obtained by Sargent County.



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
NORTH DAKOTA REGULATORY OFFICE
1513 SOUTH 12TH STREET
BISMARCK ND 58504-6640

May 2, 2016

North Dakota Regulatory Office

NWO-2015-01482-BIS

Attn: Mr. Mike Bassingthwaite
Interstate Engineering, Inc.
1999 4th Street N
Wahpeton, North Dakota 58075

Dear Mr. Bassingthwaite:

We are responding to your 04/07/2016 request for a Department of the Army permit for a bridge removal and replacement project on 149th Avenue SE (PCN 18714). The project is located in Sections 25 and 26, Township 132 North, Range 53 West, Latitude 46.209141°, Longitude -97.280044°, Sargent County, North Dakota.

Based on the information you provided to this office, Sargent County in cooperation with NDDOT and FHWA are proposing the removal and replacement of 6 structures on the Wild Rice River. The project will provide one viable north-south route over the Wild Rice River. Two of the bridges will be replaced with Concrete Box Culverts. In addition, the roadway will be raised over the 3600 foot river valley an average of 4 to 5 feet. The project will permanently impact 2.11 acres of wetland. Compensatory mitigation is required for permanent wetland impacts above 1/10th of an acre. We have determined activities in waters of the U.S. associated with the project are authorized by Nationwide Permit Number (NWP) NWP 23 Approved Categorical Exclusions.

You must comply with all terms and conditions of the NWP, applicable regional conditions, and project-specific special conditions. Information about the NWP and regional conditions are available on our website at <http://www.nwo.usace.army.mil/Missions/RegulatoryProgram/NorthDakota> In addition, your work must comply with the following special conditions:

1. Compensatory mitigation for 1.00 acres of the authorized impacts to waters of the United States must be carried out in accordance with the proposed mitigation as stated in the DA ENG Form 4345, which states that 1.00 acres of credit will be secured through the Ducks Unlimited, Inc. North Dakota Aquatic Resource In-lieu Fee Program. You must secure these credits prior to conducting any project activities in Waters of the United States. You must provide this office with a signed

and dated Credit Transaction Notification Form within 30 days of the transaction. This permit is not valid until the transaction is completed.

2. A 12 Components Mitigation Plan for the permittee responsible mitigation (1.11 acres) must be submitted and approved by the U.S. Army Corps of Engineers before conducting any project activities in Waters of the United States.

Within 30 days after completion of the authorized work, you must sign the enclosed Compliance Certification and return it to this office.

This verification is valid until March 18, 2017, when the existing NWP's are scheduled to be modified, reissued, or revoked. Furthermore, if you commence or are under contract to commence this activity before the date the NWP is modified, reissued, or revoked, you will have 12 months from the date of the modification, reissuance or revocation to complete the activity under the present terms and conditions. Failure to comply with the general and regional conditions of this NWP, or the project-specific special conditions of this authorization, may result in the suspension or revocation of your authorization.

We would appreciate your feedback on this permit action including your interaction with our staff. At your earliest convenience, please tell us how we are doing by completing the Corps' Regulatory Program national customer service survey found on our website at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey.

Please refer to identification number NWO-2015-01482-BIS in any correspondence concerning this project. If you have any questions, please contact Swade Hammond at, by email at Swade.D.Hammond@usace.army.mil, or telephone at 701-255-0015.

Sincerely,

Patricia L. McQueary
North Dakota State Program Manager
Omaha District Regulatory Division

Enclosures

COMPLIANCE CERTIFICATION

Permit File Name: NDDOT; FedHwy; Interstate Engineering; BRO-0041(012); PCN 20039; Sargent County; Wild Rice River; Bridge Replacement

Action ID: NWO-2015-01482-BIS

Nationwide Permit Number: NWP 23 Approved Categorical Exclusions.

Permittee:

Attn: Mr. Mike Bassingthwaite
Interstate Engineering, Inc.
1999 4th Street N.
Wahpeton, North Dakota 58074

County: Sargent

Date of Verification: April 28, 2016

Within 30 days after completion of the activity authorized by this permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers, Omaha District
North Dakota Regulatory Office
1513 South 12th Street
Bismarck, North Dakota 58504
CENWO-OD-RND@usace.army.mil

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with the terms and conditions of the permit your authorization may be suspended, modified, or revoked. If you have any questions about this certification, please contact the U.S. Army Corps of Engineers.

* * * * *

I hereby certify that the work authorized by the above-referenced permit, including all the required mitigation, was completed in accordance with the terms and conditions of the permit verification.

Permittee Signature

Date

**FACT SHEET
NATIONWIDE PERMIT 23
(2012)**

APPROVED CATEGORICAL EXCLUSIONS.

Activities undertaken, assisted, authorized, regulated, funded, or financed, in whole or in part, by another Federal agency or department where:

(a) That agency or department has determined, pursuant to the Council on Environmental Quality's implementing regulations for the National Environmental Policy Act (40 CFR part 1500 et seq.), that the activity is categorically excluded from environmental documentation, because it is included within a category of actions which neither individually nor cumulatively have a significant effect on the human environment; and

(b) The Office of the Chief of Engineers (Attn: CECW-CO) has concurred with that agency's or department's determination that the activity is categorically excluded and approved the activity for authorization under NWP 23.

The Office of the Chief of Engineers may require additional conditions, including pre-construction notification, for authorization of an agency's categorical exclusions under this NWP. (Sections 10 and 404)

Notification: Certain categorical exclusions approved for authorization under this NWP require the permittee to submit a pre-construction notification to the district engineer prior to commencing the activity (see general condition 31). The activities that require pre-construction notification are listed in the appropriate Regulatory Guidance Letters.

Nationwide Permit General Conditions

Note: To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer.

1. Navigation. (a) No activity may cause more than a minimal adverse effect on navigation.

(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those

species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species.

3. Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWP 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.

13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. Wild and Scenic Rivers. No activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).

17. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

18. Endangered Species. (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed.

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address ESA compliance for the NWP activity, or whether additional ESA consultation is necessary.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed work or that utilize the designated critical habitat that might be affected by the proposed work. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the project, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification the proposed

activities will have "no effect" on listed species or critical habitat, or until Section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific regional endangered species conditions to the NWP's.

(e) Authorization of an activity by a NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the U.S. FWS or the NMFS, The Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the U.S. FWS and NMFS or their world wide web pages at <http://www.fws.gov/> or <http://www.fws.gov/ipac> and <http://www.noaa.gov/fisheries.html> respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for obtaining any "take" permits required under the U.S. Fish and Wildlife Service's regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act. The permittee should contact the appropriate local office of the U.S. Fish and Wildlife Service to determine if such "take" permits are required for a particular activity.

20. Historic Properties. (a) In cases where the district engineer determines that the activity may affect properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of Section 106 of the National Historic Preservation Act. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address section 106 compliance for the NWP activity, or whether additional section 106 consultation is necessary.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the authorized activity may have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties may be affected by the proposed work or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer or Tribal Historic Preservation Officer, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of Section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the district engineer

shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the non-Federal applicant has identified historic properties on which the activity may have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed.

(d) The district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA Section 106 consultation is required. Section 106 consultation is not required when the Corps determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR §800.3(a)). If NHPA section 106 consultation is required and will occur, the district engineer will notify the non-Federal applicant that he or she cannot begin work until Section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. Discovery of Previously Unknown Remains and Artifacts. If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. Designated Critical Resource Waters. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWP's 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWP's 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with general condition 31, for any activity proposed in the

designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWP's only after it is determined that the impacts to the critical resource waters will be no more than minimal.

23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that adverse effects on the aquatic environment are minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse effects of the proposed activity are minimal, and provides a project-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in minimal adverse effects on the aquatic environment.

(2) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, wetland restoration should be the first compensatory mitigation option considered.

(3) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) – (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)).

(4) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the impact site and the number of credits to be provided.

(5) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation, such as stream rehabilitation, enhancement, or preservation, to ensure that the activity results in minimal adverse effects on the aquatic environment.

(e) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWP's. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any project resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of

the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that a project already meeting the established acreage limits also satisfies the minimal impact requirement associated with the NWP.

(f) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the restoration or establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, riparian areas may be the only compensatory mitigation required. Riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to establish a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or establishing a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(g) Permittees may propose the use of mitigation banks, in-lieu fee programs, or separate permittee-responsible mitigation. For activities resulting in the loss of marine or estuarine resources, permittee-responsible compensatory mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(h) Where certain functions and services of waters of the United States are permanently adversely affected, such as the conversion of a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse effects of the project to the minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA Section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality. . *Specifically for North Dakota, the North Dakota Department of Health has denied water quality certification for all projects proposed to affect Class 1 and 1a rivers or classified lakes, individual certification must be obtained. For project proposed to affect any other waters, the North Dakota Department of Health has issued water quality certification provided the attached Construction and Environmental Disturbance Requirements are followed.*

26. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

29. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

"When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

(Transferee)

(Date)

30. Compliance Certification. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

(a) A statement that the authorized work was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;

(b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must

include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and

(c) The signature of the permittee certifying the completion of the work and mitigation.

31. Pre-Construction Notification—(a) *Timing.* Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either: (1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or (2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or in the vicinity of the project, or to notify the Corps pursuant to

general condition 20 that the activity may have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or Section 106 of the National Historic Preservation (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) *Contents of Pre-Construction Notification:* The PCN must be in writing and include the following information: (1) Name, address and telephone numbers of the prospective permittee; (2) Location of the proposed project; (3) A description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause, including the anticipated amount of loss of water of the United States expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. The description should be sufficiently detailed to allow the district engineer to determine that the adverse effects of the project will be minimal and to determine the need for compensatory mitigation. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the project and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but

do not need to be detailed engineering plans); (4) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many waters of the United States. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate; (5) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse effects are minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan. (6) If any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, for non-Federal applicants the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work. Federal applicants must provide documentation demonstrating compliance with the Endangered Species Act; and (7) For an activity that may affect a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, for non-Federal applicants the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property. Federal applicants must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act. (c) *Form of Pre-Construction Notification:* The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is a PCN and must include all of the information required in paragraphs (b)(1) through (7) of this general condition. A letter containing the required information may also be used. (d) *Agency Coordination:* (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWP's and the need for mitigation to reduce the project's adverse environmental effects to a minimal level. (2) For all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States, for NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of intermittent and ephemeral stream bed, and for all NWP 48 activities that require pre-construction notification, the district engineer will immediately provide (e.g., via email, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (U.S. FWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Office (THPO), and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to telephone or fax the district engineer notice that they intend to provide substantive, site specific comments. The comments must explain why the agency believes the adverse effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the preconstruction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWP's, including the need for mitigation to ensure the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37,

the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5. (3) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act. (4) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of preconstruction notifications to expedite agency coordination.

Further Information

1. District Engineers have authority to determine if an activity complies with the terms and conditions of an NWP.
2. NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law.
3. NWPs do not grant any property rights or exclusive privileges.
4. NWPs do not authorize any injury to the property or rights of others.
5. NWPs do not authorize interference with any existing or proposed Federal project.

**2012 Nationwide Permits
Regional Conditions
Omaha District
State of North Dakota**

The following Nationwide Permit regional conditions will be used in the State of North Dakota. Regional conditions are placed on Nationwide Permits to ensure projects result in less than minimal adverse impacts to the aquatic environment and to address local resources concerns.

Wetlands Classified as Peatlands – Revoked for Use

All Nationwide Permits, with the exception of 3, 5, 20, 32, 38 and 45, are revoked for use in peatlands in North Dakota.

Peatlands are saturated and inundated wetlands where conditions inhibit organic matter decomposition and allow for the accumulation of peat. Under cool, anaerobic, and acidic conditions, the rate of organic matter accumulation exceeds organic decay. Peatlands can be primarily classified into ombrotrophic bogs and minerotrophic fens; the latter subdivided into poor, moderate-rich, and extreme-rich fens, each with distinctive indicator species, community physiognomy, acidity, alkalinity, and base cation content.

Wetlands Classified as Peatlands – Pre-construction Notification Requirement

For Nationwide Permits 3, 5, 20, 32, 38, and 45 permittees must notify the Corps in accordance with General Condition 31 (Notification) prior to initiating any regulated activity impacting peatlands in North Dakota.

Waters Adjacent to Natural Springs – Pre-construction Notification Requirement

For all Nationwide Permits permittees must notify the Corps in accordance with General Condition No. 31 (Notification) for regulated activities located within 100 feet of the water source in natural spring areas in North Dakota. For purposes of this condition, a spring source is defined as any location where there is artesian flow emanating from a distinct point at any time during the growing season. Springs do not include seeps and other groundwater discharge areas where there is no distinct point source.

Missouri River, including Lake Sakakawea and Lake Oahe within the State of North Dakota – Pre-construction Notification Requirement

For all Nationwide Permits permittees must notify the Corps in accordance with General Condition No. 31 (Notification) prior to initiating any regulated activity in the Missouri River, including Lake Sakakawea and Lake Oahe, within the State of North Dakota.

Borrow Site Identification – All Nationwide Permits

The permittee is responsible for ensuring that the Corps is notified of the location of any borrow site that will be used in conjunction with the construction of the authorized activity so that the Corps may evaluate the site for potential impacts to aquatic resources, historic properties, and endangered species. For projects where there is another lead Federal agency, the permittee shall provide the Corps documentation indicating that the lead Federal agency has complied with the National Historic Preservation Act and Endangered Species Act for the borrow site. The permittee shall not initiate work at the borrow site in conjunction with the authorized activity until approval is received from the Corps.

Counter-sinking Culverts and Associated Riprap – All Nationwide Permits

That culverts and riprap proposed to be installed within waters of the United States listed as Class III or higher on the 1978 Stream Evaluation Map for the State of North Dakota shall be installed one foot below the natural streambed. The 1978 Stream Evaluation Map for the State of North Dakota can be accessed on the North Dakota Regulatory Office's website at: http://www.nwo.usace.army.mil/Portals/23/docs/regulatory/ND/gen/nd_streams_readable.pdf

REGIONAL CONDITIONS APPLICABLE TO SPECIFIC NATIONWIDE PERMITS

Nationwide Permit 7 – Outfall Structures and Associated Intake Structures and Nationwide Permit 12 – Utility Line Activities

Intake Structures - Intake screens with a maximum mesh opening of 1/4-inch must be provided, inspected annually, and maintained. Wire, Johnson-like, screens must have a maximum distance between wires of 1/8-inch. Water velocity at the intake screen shall not exceed 1/2-foot per second.

Pumping plant sound levels will not exceed 75 dB at 50 feet.

Intakes located in Lake Sakakawea, above river mile 1519, are subject to the following conditions:

- The intakes shall be floating.
- At the beginning of the pumping season, the intake shall be placed over water with a minimum depth of 20 feet.
- If the 20-foot depth is not attainable, then the intake shall be located over the deepest water available.
- If the water depth falls below six feet, the intake shall be moved to deeper water or the maximum intake velocity shall be limited to 1/4 foot per second.

Intakes located in Lake Sakakawea, below river mile 1519, and in the Missouri River below Garrison Dam are subject to the following conditions:

- The intakes shall be submerged.
- At the beginning of the pumping season, the intake will be placed at least 20 vertical feet below the existing water level.
- The intake shall be elevated 2 to 4 feet off the bottom of the river or reservoir bed.
- If the 20-foot depth is not attainable, then the intake velocity shall be limited to 1/4-foot per second with the intake placed at the maximum practicable attainable depth.

Nationwide Permit 11 – Temporary Recreational Structures - Boat Docks

- a. If future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
- b. No boat dock shall be located on a sandbar or barren sand feature located in or along the banks of the Missouri River.
- c. The farthest point riverward on the dock located on the Missouri River proper shall not exceed a total length of 30 feet from the ordinary high water line found along the high bank out into the River. Information Note: Issuance of this permit does not supersede authorization required by the North Dakota State Engineer's Office.
- d. Any boat dock located on the Missouri River shall be anchored to the top of the high bank.
- e. Any boat dock located within an excavated bay or marina off the main river channel may be anchored to the bay or marina bottom with spuds.

Nationwide Permit 13 - Bank Stabilization

Permittees must notify the Corps in accordance with General Condition No. 31 (Notification) prior to initiating any regulated activity within the State of North Dakota.

Nationwide Permit 23 - Approved Categorical Exclusions

Permittees must notify the Corps in accordance with General Condition No. 31 (Notification) prior to initiating any regulated activity within the State of North Dakota. In addition to information required by General Condition 31, permittees must identify the approved categorical exclusion that applies and provide documentation that the project fits the categorical exclusion.

Nationwide Permit 27 - Aquatic Habitat Restoration, Establishment and Enhancement Activities

Permittees must notify the Corps in accordance with General Condition No. 31 (Notification) prior to initiating any regulated activity within the State of North Dakota.

GENERAL CONDITIONS (REGIONAL ADDITIONS)

General Condition 3- Spawning Areas

No regulated activity within waters of the United States listed as Class III or higher on the 1978 Stream Evaluation Map for the State of North Dakota or on the North Dakota Game and Fish Department's website as a North Dakota Public Fishing Water shall occur between 15 April and 1 June. No regulated activity within the Red River of the North shall occur between 15 April and 1 July. North Dakota Public Fishing Waters can be accessed at: <http://gf.nd.gov/fishing/where-to-fish>. The 1978 Stream Evaluation Map for the State of North Dakota can be accessed on the North Dakota Regulatory Office's website at: http://www.nwo.usace.army.mil/Portals/23/docs/regulatory/ND/gen/nd_streams_readable.pdf.

General Condition 6 – Suitable Material

Permittees are reminded that General Condition No. 6 prohibits the use of unsuitable material. In addition, organic debris, some building waste, and materials excessive in fines are not suitable material. Specific verbiage on prohibited materials can be accessed on the North Dakota Regulatory Office's website at: <http://www.nwo.usace.army.mil/Portals/23/docs/regulatory/ND/gen/prohibitionpnJuly2011.pdf>.

General Condition 9 - Management of Water Flows

Permittees are reminded that water flow management addressed in General Condition 9 is applicable to all aspects of a permitted project, including temporary features.

General Condition 31 – Pre-construction Notification

Prospective permittees should be aware that a **field delineation** may be required for applications where notification is required in accordance with General Condition 31 and/or mitigation may be required. The Corps 1987 Wetland Delineation Manual and applicable Regional Supplements to the Manual can be accessed on the North Dakota Regulatory Office's website at: <http://www.nwo.usace.army.mil/Missions/RegulatoryProgram/NorthDakota.aspx>.



Construction and Environmental Disturbance Requirements

These represent the minimum requirements of the North Dakota Department of Health. They ensure that minimal environmental degradation occurs as a result of construction or related work which has the potential to affect the waters of the State of North Dakota. All projects will be designed and implemented to restrict the losses or disturbances of soil, vegetative cover, and pollutants (chemical or biological) from a site.

Soils

Prevent the erosion of exposed soil surfaces and trapping sediments being transported. Examples include, but are not restricted to, sediment dams or berms, diversion dikes, hay bales as erosion checks, riprap, mesh or burlap blankets to hold soil during construction, and immediately establishing vegetative cover on disturbed areas after construction is completed. Fragile and sensitive areas such as wetlands, riparian zones, delicate flora, or land resources will be protected against compaction, vegetation loss, and unnecessary damage.

Surface Waters

All construction which directly or indirectly impacts aquatic systems will be managed to minimize impacts. All attempts will be made to prevent the contamination of water at construction sites from fuel spillage, lubricants, and chemicals, by following safe storage and handling procedures. Stream bank and stream bed disturbances will be controlled to minimize and/or prevent silt movement, nutrient upsurges, plant dislocation, and any physical, chemical, or biological disruption. The use of pesticides or herbicides in or near these systems is forbidden without approval from this Department.

Fill Material

Any fill material placed below the high water mark must be free of top soils, decomposable materials, and persistent synthetic organic compounds (in toxic concentrations). This includes, but is not limited to, asphalt, tires, treated lumber, and construction debris. The Department may require testing of fill materials. All temporary fills must be removed. Debris and solid wastes will be removed from the site and the impacted areas restored as nearly as possible to the original condition.

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75	1-2	Wetland Impacts and Mitigation
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D-255-2	Erosion and Siltation Control- Erosion Control Blanket Installation
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D-704-7	Breakaway Systems for Construction Zone Signs – Perforated Tube
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D-704-22	Construction Truck and Temporary Detour Layouts
D-714-4	Round Corrugated Steel Pipe Culverts and End Sections
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LIST OF SPECIAL PROVISIONS (SP)

<u>SP #</u>	<u>Description</u>
SP 0003(14)	Temporary Erosion & Sediment Best Management Practices
SP 0004(14)	Federal Migratory Bird Treaty Act
SP 0310(14)	Temporary Stream Diversion
SP 5112(14)	Permits & Environmental Considerations

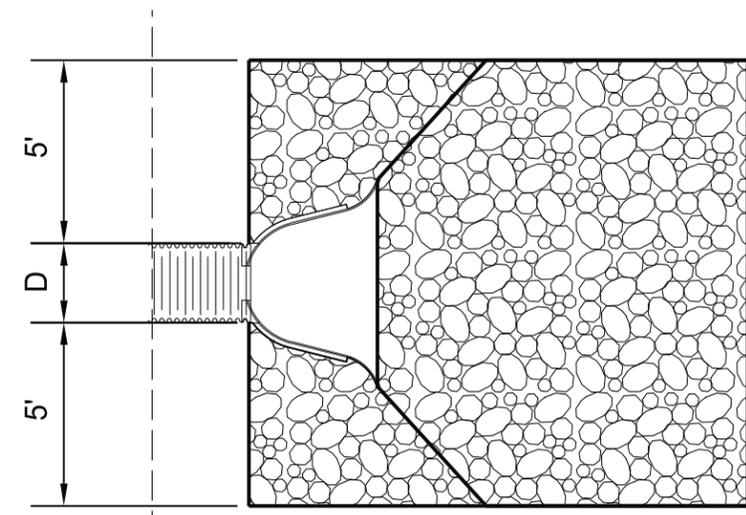
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ND	BRO-0041(012)	8	1

ESTIMATE OF QUANTITIES

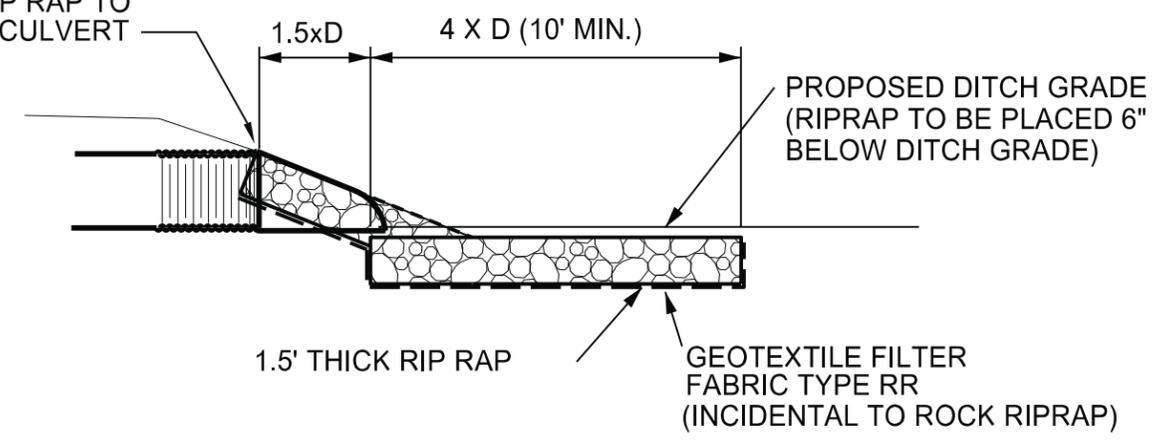
SPEC	CODE	ITEM DESCRIPTION	UNIT	PARTICIPATING (BRO) QUANTITIES	NON-PARTICIPATING QUANTITIES
103	0100	CONTRACT BOND	L SUM	0.75	0.25
202	0108	REMOVAL OF STRUCTURE-SITE 1	L SUM	1	
202	0109	REMOVAL OF STRUCTURE-SITE 2	L SUM	1	
202	0110	REMOVAL OF STRUCTURE-SITE 3	L SUM	1	
202	0170	REMOVAL OF CULVERTS-ALL TYPES AND SIZES	LF	180	30
203	0102	COMMON EXCAVATION-TYPE B	CY	3043	600
203	0109	TOPSOIL	CY	2591	1728
203	0116	TOPSOIL MANDATORY BORROW AREA	CY	815	
203	0117	MANDATORY BORROW	CY	3570	
203	0140	BORROW-EXCAVATION	CY	22500	21400
210	0051	BOX CULVERT EXCAVATION SITE 1	L SUM	1	
210	0052	BOX CULVERT EXCAVATION SITE 2	L SUM	1	
210	0128	CHANNEL EXCAVATION-SITE 1	L SUM	1	
210	0129	CHANNEL EXCAVATION-SITE 2	L SUM	1	
210	0209	FOUNDATION FILL	TON	2650	
210	0202	FOUNDATION PREPARATION-SITE 1	L SUM	1	
210	0203	FOUNDATION PREPARATION-SITE 2	L SUM	1	
210	0225	FOUNDATION FILL - TYPE 1	CY	1240	
216	0100	WATER	MGAL	200	200
251	200	SEEDING CLASS II	ACRE	5.1	2.4
251	1000	WETLAND SEED	ACRE	1.04	1
251	2000	TEMPORARY COVER CROP	ACRE	6.14	3.4
253	0101	STRAW MULCH	ACRE	6.14	3.4
255	0102	ECB TYPE 2	SY	320	
256	0201	RIPRAP GRADE II	TON	446	
260	0100	SILT FENCE UNSUPPORTED	LF	2905	2400
260	0101	REMOVE SILT FENCE UNSUPPORTED	LF	2905	2400
261	0112	FIBER ROLLS 12IN	LF	465	15
261	0113	REMOVE FIBER ROLLS 12IN	LF	200	
262	0100	FLOATATION SILT CURTAIN	LF	130	
262	0101	REMOVE FLOATATION SILT CURTAIN	LF	130	
302	0356	AGGREGATE SURFACE COURSE CL 13	TON	1360	950
606	1211	12FT X 11FT PRECAST RCB CULVERT	LF	56	
606	3211	DBL 12FT X 11FT PRECAST RCB CULVERT	LF	56	
606	5211	12FT X 11FT PRECAST RCB END SECTION	EA	2	
606	7211	DBL 12FT X 11FT PRECAST RCB END SECTION	EA	2	
702	0100	MOBILIZATION	L SUM	0.75	0.25
704	1000	TRAFFIC CONTROL SIGNS	UNIT	790	
704	1052	TYPE III BARRICADES	EA	12	
704	1060	DELINEATOR DRUMS	EA	10	
709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	1610	
714	5035	PIPE CORR STEEL .064IN 24IN	LF	120	
714	5820	END SECT CORR STEEL .064IN 24IN	EA	4	
754	0805	OBJECT MARKERS - CULVERTS	EA	4	
900	1000	TEMPORARY STREAM DIVERSION	EA	1	

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Estimated Quantities
Sargent County, North Dakota



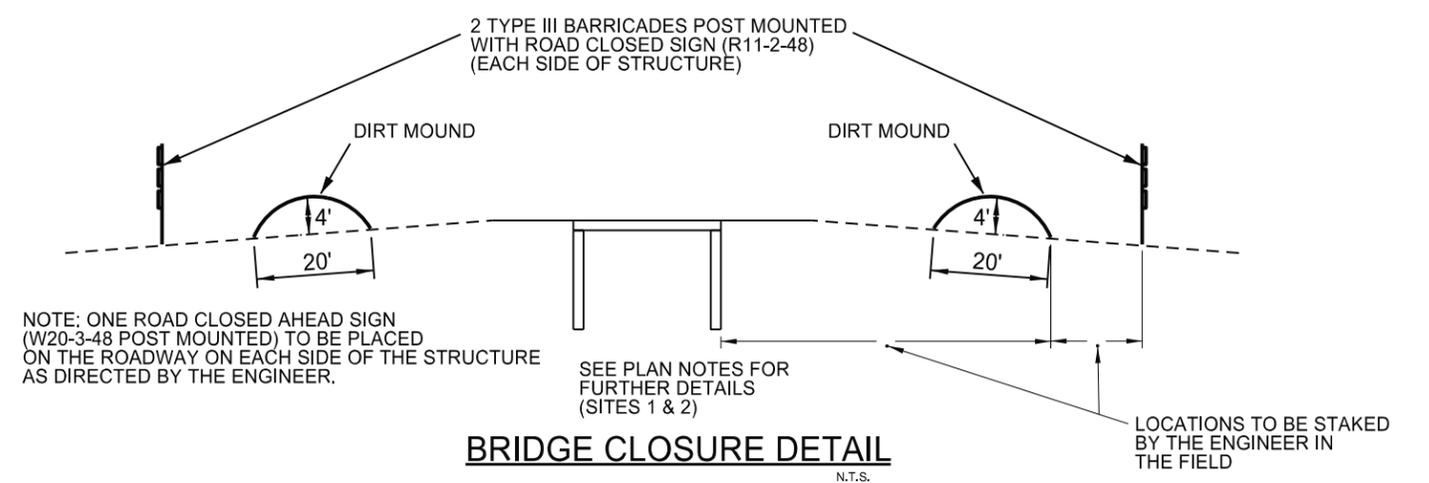
PLACE RIP RAP TO TOP OF CULVERT



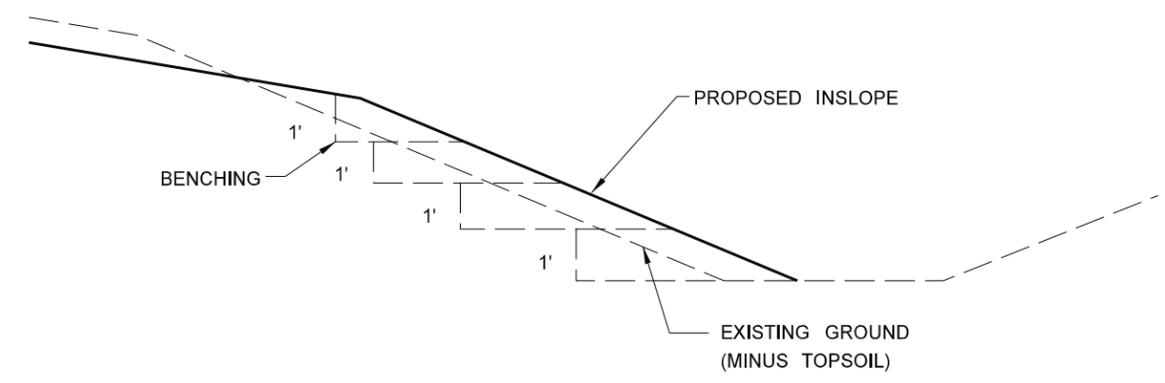
SECTION A-A
N.T.S.

RIPRAP AT CULVERT ENDS		
SIZE OF CULVERT	QUANTITY OF RIPRAP	QUANTITY OF FILTER FABRIC
(in.)	(CY)	(SY)
12	7.0	14.1
15	7.4	14.8
18	7.8	15.7
24	8.7	17.3
30	9.5	19.1
36	11.9	23.8
48	17.1	34.2

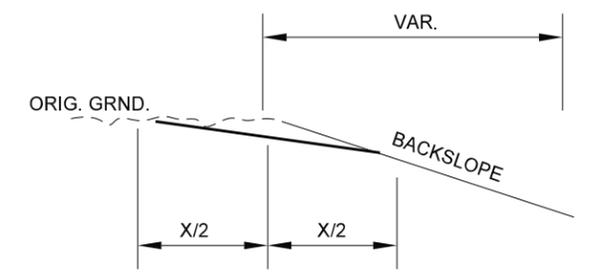
RIP RAP AT CULVERT ENDS
N.T.S.



BRIDGE CLOSURE DETAIL
N.T.S.



BENCHING TYPICAL SECTION
N.T.S.

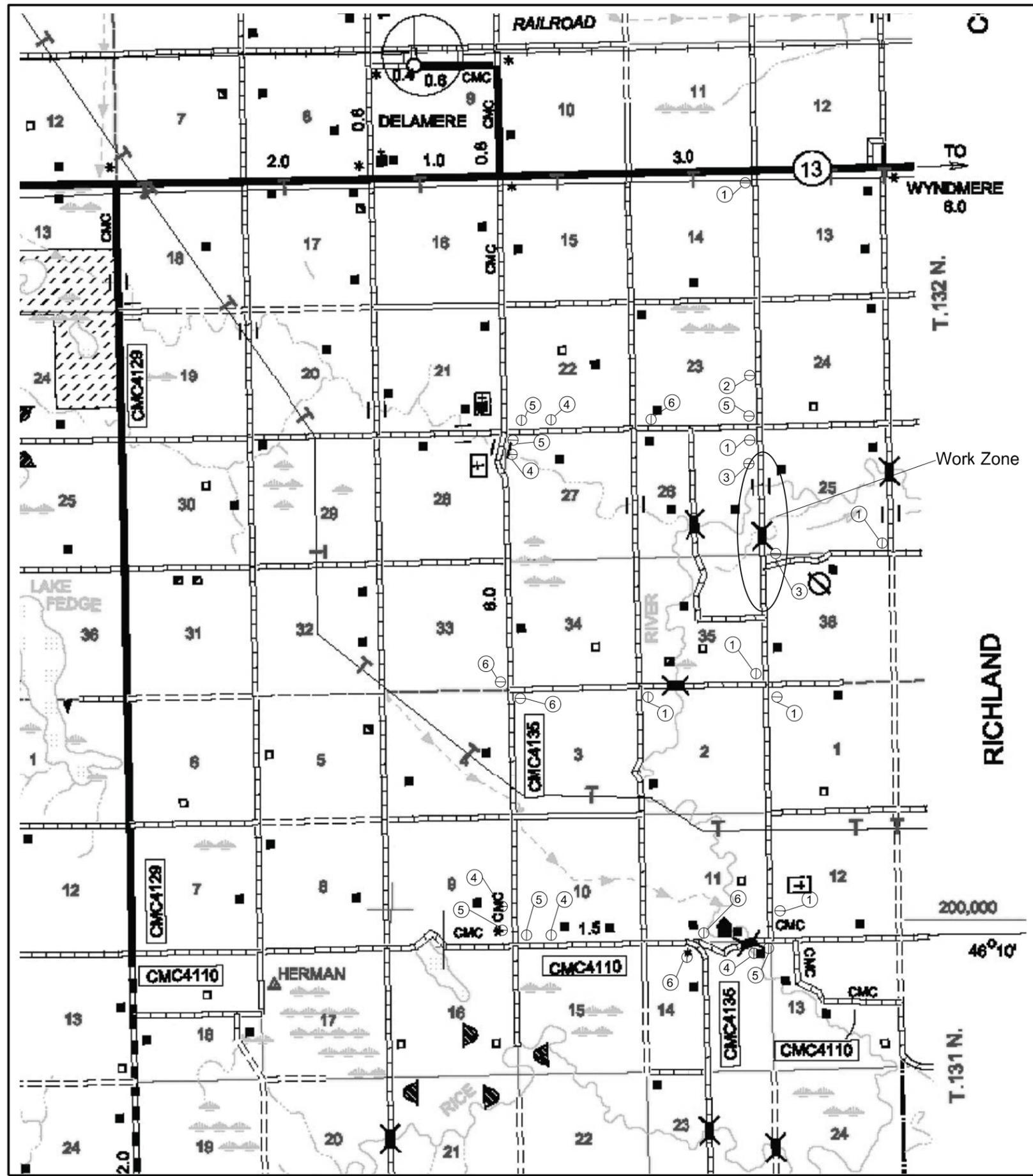


BACKSLOPE ROUNDING WHERE X = 10'
UNLESS RESTRICTED BY HEIGHT OF BACKSLOPE
BACKSLOPE ROUNDING
N.T.S.

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Details
Sargent County North Dakota

REVISED 5-2-16	STATE ND	PROJECT NO. BRO-0041(012)	SECTION NO. 100	SHEET NO. 1
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- ① W20-3-48 "Road Closed Ahead" with Type III Barricade Mounted (1 Barricade Post Mounted)
- ② W20-2-48 "Detour 2000 Feet" Post Mounted
- ③ R11-2-48 "Road Closed" with Type III Barricade Mounted (3 Barricades)
- ④ M4-8-24 "Detour" M5-1-21 "↖" or "↗" Post Mounted
- ⑤ M4-8-24 "Detour" M6-1-21 "←" or "→"
- ⑥ M4-8-24 "Detour" M6-3-21 "↑"

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Construction Signing Layout
Sargent County North Dakota

STRUCTURE NOTES

REVISED 5-2-16

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0041(012)	170	1

100-P01 SCOPE OF WORK: This project shall consist of the removal of 3 bridges and 1 large culvert crossing and the installation of RCB at 2 of the removal locations.

202-P01 REMOVAL OF STRUCTURE-SITE 1: The existing structure to be removed at this location consists of a single span concrete/steel girder bridge 29 feet in length. The existing roadway embankments have been washed away at this location. The contractor shall be responsible for access for the removal as part of this bid item.

REMOVAL OF STRUCTURE-SITE 2: The existing structure to be removed at this location consists of a single span timber bridge 28 feet in length.

REMOVAL OF STRUCTURE-SITE 3: The existing structure to be removed at this location consists of a single span timber bridge with steel piling 41 feet in length.

All salvaged materials will become property of the Contractor for all 3 removals. The Contractor shall arrange for and secure a suitable disposal site off of the right-of-way for the remainder of the structure. Any existing substructures shall be removed in accordance with Section 202.04B of the Standard Specifications.

Embankment is required for the barrier mound (see section 20 detail) and shall be obtained from the roadway fill excavation behind the existing abutments as directed by the Engineer. All natural grass and disturbed areas shall be seeded per section 251 of the standard specifications and plan notes. Road closure signing shall be as detailed in section 20. All signs, posts, and barricades shall be installed per section 704 of the standard specifications and relevant standard drawings.

All costs associated with removal and disposal of the structure shall be included in the price bid for "Removal of Structure-Site x". These costs shall include removal, signing, barricades, posts, labor seeding, earthwork, etc.

202-P02 REMOVAL OF PIPES ALL TYPES AND SIZES: The existing pipes to be removed at Station 70+75 consist of three (3) 11ftx10in x7ftx7in SPPA's 60 feet in length each. All salvaged materials will become property of the Contractor.

210-P01 BOX CULVERT EXCAVATION: Shall be to the limits shown on the plan typical box culvert layout drawings. All material not considered suitable for the roadbed shall be used to fill the road in-slopes unless the material is deemed waste excavation by the engineer. It is assumed that this material will be suitable for use in embankment areas. Payment for all Box Culvert Excavation to the limits shown on the plans will be Lump Sum. The price bid for Box Culvert Excavation shall include the costs for placement of this material in embankment areas. The embankment shall meet the requirements of Section 203.02H Compaction Control Type B.

210-P02 FOUNDATION FILL – TYPE 1: Foundation Fill – Type 1 shall consist of Concrete Course Aggregate Size 4 and shall be installed in the bottom 3 feet of the excavated area below the box culvert as shown in plans. This aggregate must be wrapped completely with Geosynthetic Material Type S1. The Geosynthetic Material Type S1 shall be included in the price bid for Foundation Fill – Type 1.

606-P01 PRECAST REINFORCED CONCRETE BOX CULVERTS: Tie all barrel sections together with galvanized tie-bolts. Each joint will require four tie bolts at the third points of the wall

height. Provide fence anchors for each end section. Anchors required on all four corners and shall be suitable for four strand barbed wire fence.

Double and single box culvert end sections shall include a reinforced concrete parapet on the top of the roof and a reinforced concrete cutoff wall below the floor. The parapet shall be one (1) foot by one (1) foot and as long as the barrel sections outside width. The cutoff wall shall be placed below the end of the end sections and shall be a minimum of one (1) foot thick, and three (3) feet, two (2) inches deep, and shall extend three (3) feet beyond both of the end section's outside walls. These items shall be included in the bid price of each end section.

The contractor may substitute two (2) lines of single cell 12'X11' RCBC for the specified double cell RCBC. Any additional costs for this substitution such as additional excavation or backfill material's shall be included in the price of the RCBC. The bid price for double cell RCBC and end sections shall be paid regardless of which option is utilized.

The design loading of the box culverts shall be HL-93 with the minimum fill heights shown in the plans. The design of single and double box culvert barrels shall be based on a 10" thick roof, 10" floor, and 8" walls and the following total factored moments and shears that would result from the application of the required loads:

FACTORED DESIGN MOMENTS (SINGLE)		FACTORED DESIGN MOMENTS (DBL)	
Wall Moment		Wall Moment	
Top Corner	-13.2 ft-lbs	Top Corner	-8.6 ft-lbs
Mid Height, +VE	6.52 ft-lbs	Mid Height, + VE	6.51 ft-lbs
Mid Height, -VE	-6.15 ft-lbs	Mid Height, - VE	-1.19 ft-lbs
Bottom Corner	-13.06 ft-lbs	Bottom Corner	-10.38 ft-lbs
Roof Moments		Roof Moments	
Corner	-11.31 ft-lbs	Ext. Corner	-10.67 ft-lbs
Midspan	29.02 ft-lbs	Midspan	28.08 ft-lbs
		Interior Corner	-24.97 ft-lbs
Floor Moments		Floor Moments	
Corner	-12.45 ft-lbs	Ext. Corner	-11.22 ft-lbs
Midspan	25.42 ft-lbs	Midspan	13.35 ft-lbs
		Int. Corner	-19.99 ft-lbs

NOTES

1. Moments are due to strength I limit state.
2. Negative (-VE) moments at corners are computed at the intersection of the haunch and the uniform depth member per AASHTO 27.7.4.5
3. Positive (+VE) moments cause tension at the inside face of the component. Negative (-VE) moments cause tension on the outside face of the component.

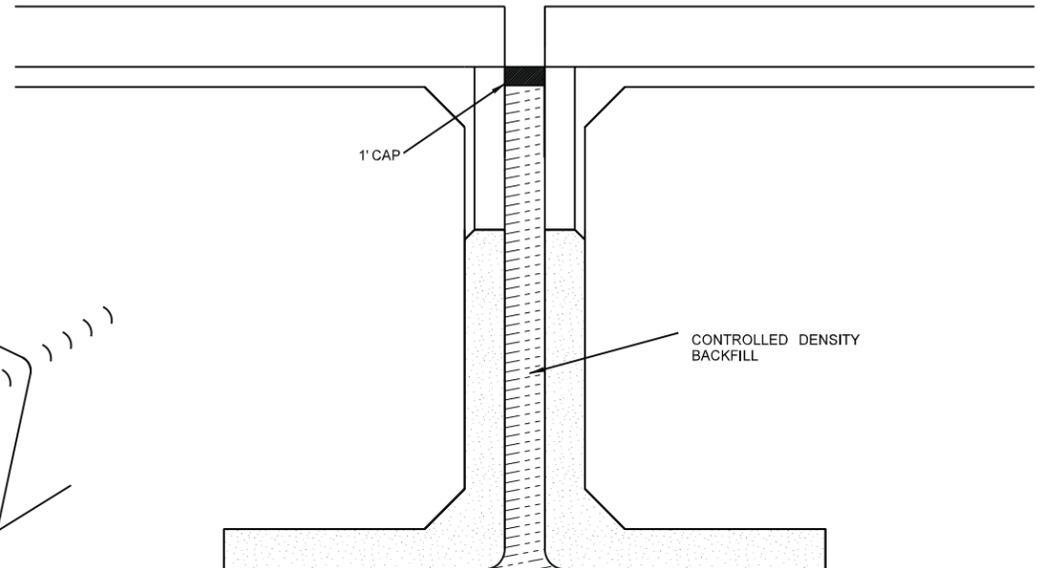
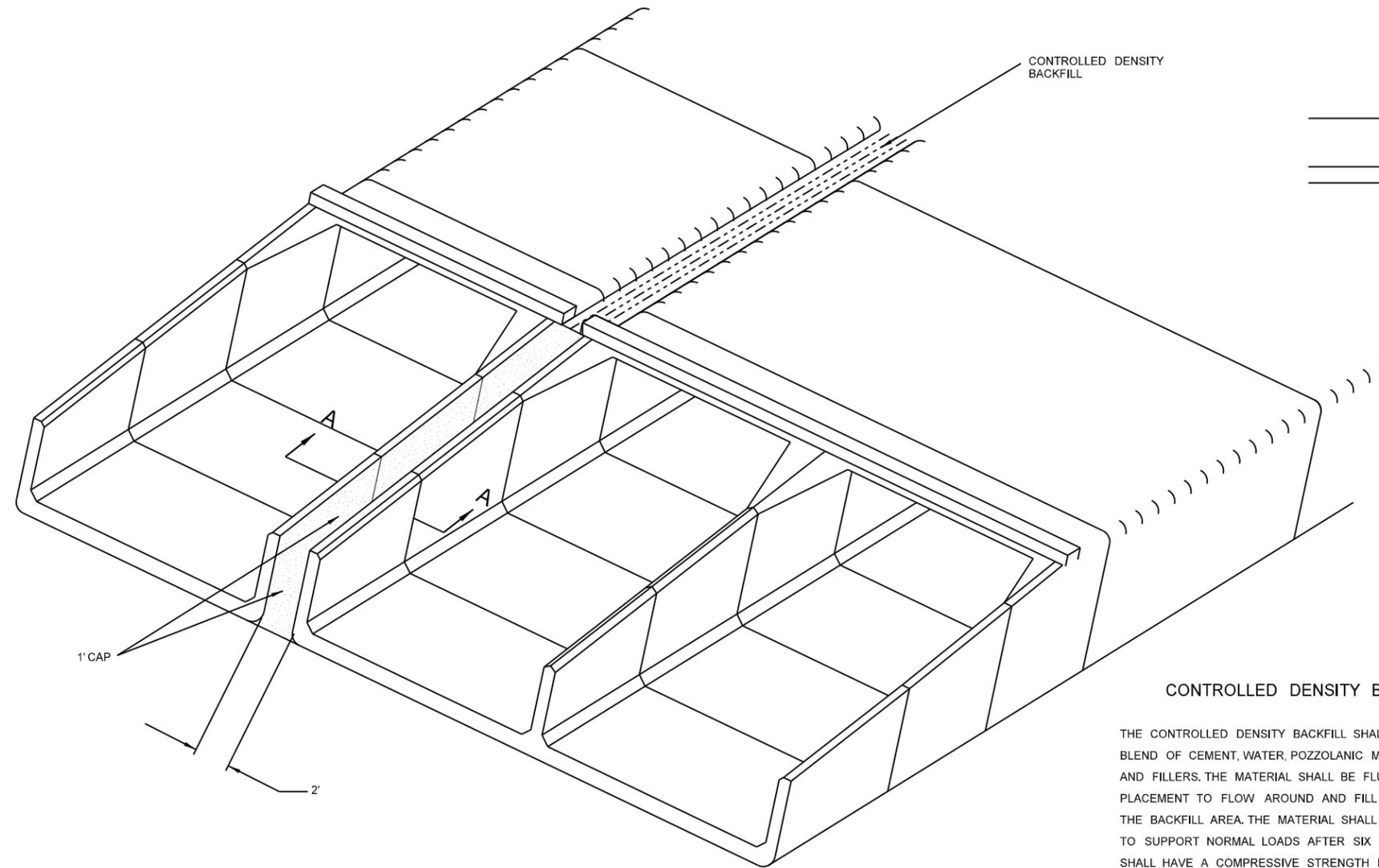
709-P01 GEOSYNTHETIC MATERIAL TYPE R1: The contractor shall install one continuous piece of fabric to meet the required longitudinal length indicated in the plans. Transverse seaming may be done by overlap per the standard specification.

WORKING DRAWINGS: The contractor shall submit the following working drawings to the Engineer of Record: Precast RCB Culvert and End Sections

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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SECTION A-A

1' CAP

2'

CONTROLLED DENSITY BACKFILL

1' CAP

CONTROLLED DENSITY BACKFILL

CONTROLLED DENSITY BACKFILL:

THE CONTROLLED DENSITY BACKFILL SHALL BE A BLEND OF CEMENT, WATER, POZZOLANIC MATERIALS AND FILLERS. THE MATERIAL SHALL BE FLUID ON PLACEMENT TO FLOW AROUND AND FILL VOIDS IN THE BACKFILL AREA. THE MATERIAL SHALL BE ABLE TO SUPPORT NORMAL LOADS AFTER SIX HOURS AND SHALL HAVE A COMPRESSIVE STRENGTH IN THE RANGE OF 75 psi TO 125 psi AT 28 DAYS. THE CONTRACTOR SHALL PROVIDE MIX DESIGNS AND COMPRESSION-STRENGTH TEST RESULTS OF THE MATERIAL TO THE ENGINEER FOR APPROVAL FIVE

DAYS PRIOR TO PLACEMENT, A TYPICAL MIX DESIGN IS SHOWN BELOW. THIS MIX DESIGN YIELDS APPROX. ONE (1) CUBIC YARD OF CONTROLLED DENSITY BACKFILL.

SAND	3000 LBS
WATER	450 LBS
FLYASH	250 LBS
CEMENT	30 LBS

THE ONE FOOT CAP SHALL CONSIST OF A WEATHERPROOF FREEZE/THAW RESISTANT MATERIAL SUCH AS SIKA GROUT 212, EVA-POX EPOXY PASTE No. 22, SPEED CRETE RED LINE, OR AN APPROVED EQUAL.

CLASS AE-3 CONCRETE MAY BE SUBSTITUTED FOR THE 1' CAP WITH THE APPROVAL OF THE ENGINEER. THE THICKNESS SHALL BE 2 FEET IN THIS AREA.

MULTIPLE CELL INSTALLATION

THE INTENT OF THIS DRAWING IS TO SHOW ONLY THE PLACEMENT OF THE SPECIAL BACKFILL BETWEEN ADJACENT BARRELS IF, AND ONLY IF, THE MULTIPLE CELL CONDITION IS BUILT. THE REPRESENTATION OF THE NUMBER OF BARRELS AND THE WING GEOMETRY SHOWN IS ARBITRARY.

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Multiple Cell Installation
Sargent County, North Dakota