01-29-25

(No. 1)

STATE OF ILLINOIS

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", adopted January 1, 2022, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways" and the "Manual of Test Procedures for Materials" in effect on the date of invitation for bids, and the "Supplemental Specifications and Recurring Special Provisions" indicated on the Check Sheet included herein which apply to and govern the construction of           Route          , Project           , Section          , in           County, and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

LOCATION OF PROJECT

(INSERT FOR EACH JOB)

DESCRIPTION OF PROJECT

(INSERT FOR EACH JOB)

(No. 2)

# **TRAFFIC CONTROL PLAN**

Effective: January 14, 1999 Revised: January 13, 2017

**Insert Standard Numbers (Six-digit number only)**

Standards:

\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

**Insert any details in the plans or District Standards**

Details:

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

General:

Where construction activities involve sidewalks on both sides of the street, the work shall be staged so that both sidewalks are not out of service at the same time.

Signs:

“BUMP” (W8-1(O)48) signs shall be installed as directed by the Engineer.

“UNEVEN LANES” W8-11(O)48 signs shall be installed at 1 mile intervals or as directed by the Engineer.

“LOW SHOULDER” W8-9(O)48 signs shall be installed at 1 mile intervals or as directed by the Engineer.

“NO PASSING ZONES NOT STRIPED NEXT \_\_\_ MILES” (G20-I 100(O)) signs shall be 60” x 36”.

When covering existing Department signs, no tape shall be used on the reflective portion of the sign. Contact the District sign shop for covering techniques.

Install a "TO ACTIVATE SIGNAL" sign below the “STOP HERE ON RED” sign. The detail of this sign is included in the plans.

Any plates or direct applied sheeting used to alter signs shall have the same sheeting as the base sign.

No more than one kind of alteration shall be used to alter a sign.

Any post stubs without a sign in place and visible shall have a reflector placed on each post.

**Designer Note: Add this note on Cape Seal & Microsurfacing projects.**

The LOOSE GRAVEL (W8-7(O)48) signs with an advisory speed of 35 mph (W13-1(O)2424) shall be erected when the aggregate has been placed and the road is open to traffic. The signs shall remain in place until the excess aggregate is swept and the condition no longer exists. These signs shall be erected a minimum of 500 feet preceding the start of the condition and shall have an amber flashing light attached if up during hours of darkness.

Devices:

A minimum of 3 drums spaced at 4 feet shall be placed at each return when the sideroad is open.

Flaggers:

**Designer Note: (Include in contracts using Highway Standard 701201, 701306, 701336, or contracts with traffic control plans requiring flaggers at sideroads and commercial entrances remaining open to traffic.)**

Flaggers shall comply with all requirements and signaling methods contained in the Department’s “Traffic Control Field Manual” current at the time of letting. The flagger equipment listed for flaggers employed by the Illinois Department of Transportation shall apply to all flaggers

In addition to the flaggers shown on applicable standards, on major sideroads, flaggers shall be required on all legs of the intersection. Major sideroads for this project shall be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

In addition to the flaggers shown on applicable standards, a flagger shall be required on high volume commercial entrances listed below. High volume commercial entrances for this project shall be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Designers note: Discuss which and how many sideroads can be closed at a time.**

When the mainline flagger is within 200 feet of an intersection, the sideroad flagger shall be required.

When the road is closed to through traffic and it is necessary to provide access for local traffic, all flaggers as shown on the applicable standards will be required. No reduction in the number of flaggers shall be allowed.

Pavement Marking:

All temporary pavement markings that will be operational during the winter months (December through March) shall be paint.

Short term pavement markings on a milled surface shall be paint.

**To be used on all standards except standard 701401, 701411, 701422, and 701446.**

Highway Standards Application:

Treatment of “T” Crossing Near Standard 701316 or 701321: The signal indications and detection of the intersecting street or driveway near the standard 701316 or 701321 traffic control installation shall be as followed:

Two signal heads shall be provided for each mainline approach and for each sideroad within the designated work area. Each signal shall consist of one red section, one yellow section, one green left arrow section, and one green right arrow section with back plates.

Detection for sideroads shall consist of one microwave detector or 5 foot x 5 foot loop detector. The microwave detector shall be mounted 14 feet to 18 feet high on the near right post for the sideroad. The detector loop shall be installed at the stop bar. The side road shall be a phase separate from the cross traffic.

All signing and pavement marking on the sideroad shall be as shown on standard 701316 or 701321.

“NO TURN ON RED” (R10-11B24) signs shall be installed on sideroads in which a right turn would turn traffic into the one lane section.

All cost involved in conforming with this provision shall be considered a part of TRAFFIC CONTROL AND PROTECTION STANDARD \_\_\_\_\_\_\_\_\_\_\_\_\_, except the traffic signals will be paid for as one Each for TEMPORARY BRIDGE TRAFFIC SIGNALS, which shall include all signals within the designated work area.

**Note: Check with the District Work Zone Traffic Control Engineer if this should be included. The standard specifies roads with over 25k ADT; we may need it on other roads.**

Traffic Control and Protection Standard 701428: This work shall be done according to Section 701 of the Standard Specifications and the Typical Application of Traffic Control Devices for Highway Construction, Standard 701428, and as specified herein.

This work will not be measured for payment.

Traffic Control and Protection Standard 701701: This work shall be done according to Section 701 of the Standard Specifications and the Typical Application of Traffic Control Devices for Highway Construction, Standard 701701, and as specified herein.

The “left” leg of the intersection shown on this standard also applies when the right turn lane is closed. When the right turn lane is closed, “RIGHT TURN LANE CLOSED AHEAD” shall be substituted for the LEFT TURN LANE CLOSED AHEAD” and the set up would be a mirror image to what is shown.

This work shall be included in the contract unit price per Lump Sum for TRAFFIC CONTROL AND PROTECTION STANDARD 701701.

**DESIGNER NOTE: To be used on multi-lane roads. If you specify night work, include the appropriate highway standard(s) that will allow the Residents to lay out patches in the daytime.**

Traffic Control and Protection Standards for Patching Layout on Multi-Lane Roads: This work shall be done according to Standard \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and Section 701 of the Standard Specifications. The contractor shall be required to install \_\_\_\_\_\_\_\_\_\_\_\_\_\_ three calendar days in advance of the areas to be patched for the protection of the State personnel laying out the locations for pavement patching.

The barricades as shown in \_\_\_\_\_\_\_\_\_\_\_ shall not encroach on the lanes open to traffic at any time. The only exception to this will be in the immediate work area when workers are present, then the barricades may be moved out to permit the construction operation.

**DESIGNER NOTE: Add the following paragraph to projects longer than 5 miles. Check with Construction.**

For one week, prior to the start of construction, traffic control and protection shall be provided according to Standard 701426 or 701427, as required by the Engineer for the protection of the State personnel laying out the locations of the patches.

This work shall be included in the contract unit price per Lump Sum for TRAFFIC CONTROL AND PROTECTION STANDARD \_\_\_\_\_\_\_\_\_\_\_\_.

Traffic Control and Protection Standard 701411:

Method of Measurement. Each ramp will be measured as a separate location and will be considered as a separate location for payment, regardless of the number of installations at that ramp.

**NOTE: To be used on interstate contracts.**

Interstates and multi-lane divided highways where the existing speed is greater than 45 mph: The Contractor shall equip all machinery and vehicles with flashing amber lights, installed so the illumination is visible from all directions.

The median crossover will generally not be available for Contractor use. It may be used only when both lanes adjacent to the median are closed. Under no condition shall left turn lanes be made to cross the median from lanes open to traffic. Where interchanges are not available, the Contractor shall only be allowed to turn around where left turn lanes are present.

Parking of personal vehicles within the right-of-way will be strictly prohibited. Parking of construction equipment within the right-of-way will be permitted only at locations approved by the Engineer.

District Standards Application:

**(Designer Note: When using this special provision include District Standard 40.1. Delete all references to a detour when on an unmarked state route, but keep the 3 week notification in for wide load restrictions.) X7010216 LSum**

Traffic Control for Road Closure: This work shall be done according to the Road Closure Standard and Section 701 of the Standard Specifications.

“ROAD CLOSED AHEAD” (W20-3(O)-48) with “\_\_\_\_\_ MILES” (W16-3A(O)-3612) plate mounted below the sign shall be required at the following locations with the distance noted. The contractor shall erect these signs at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_ MILES), \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_ MILES), \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_ MILES), and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_ MILES).

“ROAD CLOSED AHEAD” (W20-3(O)-48) with flasher and the appropriate arrow plate (W1-6(O)-36x18 or W1-7(O)-36x18) shall be required on all side roads within the limits of the mainline “ROAD CLOSED AHEAD” signs.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ shall be considered Condition I Major sideroad closures for signing as shown on the District Standard Traffic Control for Road Closure Detail.

The Contractor shall notify the Department via email at [DOT.D2.TrafficNotice@illinois.gov](mailto:DOT.D2.TrafficNotice@illinois.gov). **This request shall be submitted a minimum of three weeks (21 days) and no earlier than four weeks (28 days) prior to the anticipated closure date to allow the State adequate time to re‑route oversized loads.**

Signing and devices required to close the road, according to the Traffic Control for Road Closure detail and contained herein, shall be the responsibility of the Contractor. Detour signing required to detour traffic to alternate routes shall be the responsibility of the Contractor. The day the detour signing begins, the detour will be in effect when the Contractor has notified the Resident Engineer or personnel on the project. No detour shall be erected on Friday, Saturday or Sunday. The road shall not be closed until the detour signing is completely installed, verified, and ready to accept traffic.

The “ROAD CLOSED” sign on the Type III barricades shall be unobstructed and visible to traffic at all times. No equipment, debris, or other materials shall be stored within 20 feet of the first set of Type III barricades, unless approved by the Engineer.

The Contractor shall not drive around the outside of the Type III barricades, but shall relocate the barricades temporarily for access. When it is necessary for the barricades to be moved for access, the Contractor shall move the devices into the left lane and/or left shoulder area behind barricades that are to remain in place. At no time shall the barricades be turned parallel to traffic flow for access purposes.

If a path becomes evident around the outside of the barricades, the Contractor shall be required to place additional Type III barricades to prevent driving around the existing barricades. Additional barricades shall be included in the cost of applicable Traffic Control Standards

This work shall be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

Road Closure – Closures within Closures: The road closure shall be completed using Type III barricades in compliance with Standards 701901, and signing according to Traffic Control for Road Closure detail. Two flashers shall be installed above each Type III barricade. The "ROAD CLOSED" (R11-2) or “ROAD CLOSED TO THRU TRAFFIC” (R11-4) signs shall be placed as shown in Standard 701901. Flashers shall be installed above all warning signs involving a night time road closure. If a portion of the road is completely closed between a sideroad and any entrances, the roadway will be kept open to local access in the other direction between that closure and the next road.

The Contractor shall be required to notify the Bureau of Project Implementation and affected residents prior to a complete closure.

All cost involved in conforming with this provision shall be considered a part of TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

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Other Devices:

Temporary Rumble Strips: When temporary rumble strips are specified and rumble strips such as self-adhesive rumble strips are used that do not meet the thickness requirement shown on standard 701901, multiple layers of the product shall be used to meet standard 701901.

This work shall be included in the contract unit price per each for TEMPORARY RUMBLE STRIPS.

**NOTE: Include on projects with temporary traffic signals.**

(Example Standard 701316 & 701321)

TEMPORARY SIGNALS: The Contractor will be required to have someone available at all times to receive phone calls during non-work hours and who is able to reach the job site within one hour of being called. This person will be able to repair the temporary signals or will be able to have flaggers on site within another hour to flag traffic until the signals are again in operation. Failure to have a person on site within an hour after the initial call out will result in the Contractor being charged a monetary deduction by the Department of One Thousand Dollars ($1,000). Failure to have traffic restored either with repaired signals or with flaggers within two hours after the initial call out will result in the Contractor being charged monetary deduction by the Department of One Thousand Dollars ($1,000) per hour until traffic is restored. The Contractor may use a traffic control subcontractor for the first call, however this does not relieve the prime Contractor from having a person on call.

Traffic Signal Work: No traffic signal work shall begin until all of the traffic signal hardware is on the job site. The existing traffic signal system shall remain in operation during the modernization work. The work shall be scheduled so that a minimum of two signal indications for each phase remains in operation. No signal indication shall be absent for more than seven calendar days.

The Contractor will be allowed to shut down the existing signal system not to exceed 8 hours to replace the existing controller and cabinet. During this shutdown, the intersection will operate as a 4-way "Stop".

\* \* \* \* \*

**NOTE: Use TRAFFIC CONTROL FOR NARROW TRAVEL LANES on 1‑lane stage construction job when lane is less than 17'-6". Operations will fill in the blanks. Designer must provide the narrowest width measured from toe of barrier wall to the guard rail or bridge wall. Consider for other types of projects where wide loads could be a problem i.e.:  resurfacing a roadway with narrow shoulders.**

Traffic Control for Narrow Travel Lanes: The Contractor shall provide informational warning signs regarding narrow travel lanes in construction areas. MAX WIDTH XX’-XX” X MILES AHEAD (W12-I103-48) signs with a width restriction of \_\_\_’-\_\_\_” shall be installed at the following locations and the distance from the crossroads as noted; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_ MILES AHEAD) and at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_ MILES AHEAD).

The material of these signs shall be 0.125 inch thick aluminum, Type AP White and fluorescent orange reflective sheeting, and 6 inch D Series font Black vinyl lettering meeting the requirements of Sections 1090 and 1091 of the Standard Specifications.

Additional Narrow Width (W12-I102(O)-48) signs with a width restriction of \_\_\_’-\_\_\_” and a “\_\_\_\_ MILES” (W16-3A(O)-3612) plate mounted below the signs shall be installed near the intersections of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_ MILES), \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_MILES), \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ (\_\_\_ MILES), and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_ MILES) and after the ROAD CONSTRUCTION AHEAD sign in the sign series.

The material of these signs shall be 0.125 inch thick aluminum, Type AA Fluorescent orange reflective sheeting, and 12 inch D Series font black vinyl lettering meeting the requirements of Sections 1090 and 1091 of the Standard Specifications.

Two signs at each location shall be required where the median is greater than 10 feet.

The Contractor shall notify the Department via email at [DOT.D2.TrafficNotice@illinois.gov](mailto:DOT.D2.TrafficNotice@illinois.gov). **This request shall be submitted a minimum of three weeks (21 days) and no earlier than four weeks (28 days) prior to the anticipated closure date to allow the State adequate time to set the detour route.**

\* \* \* \* \*

**NOTE: Use PILOT CAR on all resurfacing projects on rural 2-lane State marked and on unmarked routes. Use if ADT is greater than 1000 & project is over 2 miles long (Code Z0040315).**

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Pilot Car: During the bituminous priming operation, the Contractor shall be required to provide a pilot car to lead the traffic through the areas primed.

The pilot car shall be a pickup truck, carrying the Contractor's company insignia, equipped with “PILOT CAR - FOLLOW ME” (G-20-4(0)) signs. Two signs shall be mounted on the vehicle so as to be clearly visible from both directions. The bottom of the sign shall be mounted at least 1 foot above the top of the cab. The pilot car shall be equipped with a two-way radio so normal communication with the flagger at each end of the work area can be maintained.

The pilot car shall be paid for by the day. If the pilot car is used less than four hours, the operation will be counted as a half day.

This work will be paid for at the contract unit price per Day for PILOT CAR for each car required by the Engineer.

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**NOTE: This is an example.  Modify according to project requirements.**

Maintenance of Traffic: The traffic shall be maintained using run-arounds as shown on the plans using Traffic Control and Protection Standard \_\_\_\_\_\_\_\_\_.

When the roadway is not closed and/or Standard 701316 or 701321 are not in effect, the mainline shall be kept open to one-way traffic at all times during working hours and two-way traffic during non-working hours.

The mainline shall be kept open to one-way traffic at all times during working hours and two-way traffic during non-working hours.

The Contractor shall notify the \_\_\_\_\_\_\_\_\_\_\_\_ County Highway Department, the corresponding Township Commissioner, city municipality, emergency response agencies (i.e.: fire, ambulance, police), school bus companies and the Department of Transportation (Bureau of Project Implementation) regarding any changes in traffic control.

The Contractor shall notify the \_\_\_\_\_\_\_\_\_\_ County Highway Department, corresponding Township Commissioner and/or city municipality for any sideroad closure or opening.

The Contractor shall submit a maintenance of local traffic plan to the Engineer at the preconstruction meeting telling how local access will be maintained at each access location. It will show which locations will be completely closed, and which locations will be constructed utilizing Traffic Control Standard 701206 and/or barricades. This traffic plan will need to be approved by the Engineer before the roadway is closed to traffic.

The Contractor shall be responsible for providing a weekly article and map to the news media (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) describing work being performed and stages closed to traffic.

The Contractor shall have all lanes open from \_\_\_\_\_\_\_ Friday until \_\_\_\_\_\_\_ Monday, unless prior approval is obtained from the Resident Engineer.

The mainline shall be closed for reconstruction using the detour from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The township road shall be closed during construction using Traffic Control and Protection Standard BLR-21.

**Designer Note: To be used on urban jobs.**

Milled pavement shall be resurfaced before opening the road to traffic.

**Designer Note: To be used on rural milling sections when the core report requires milled pavement to be resurfaced within less than 10 days.**

Milled pavement shall be resurfaced within \_\_\_\_\_ calendar days.

Two (2) changeable message signs shall be placed on this project two (2) weeks prior to the start of work informing the public of lane closures. Location of the message signs will be determined by the Resident Engineer.

(No. 3) (Code #20101000)

# **TEMPORARY FENCE**

Effective: July 1, 1994 Revised: October 5, 2021

The Contractor shall perform this work according to Section 201 of the Standard Specifications with the type of fence and location as approved by the Engineer. The temporary fence shall replace any existing fence which is removed from an area containing livestock and shall be erected in such manner to contain the livestock and to permit the Contractor to proceed with his operations.

This work will be paid for at the contract unit price per Foot for TEMPORARY FENCE.

(No. 4) (Code # 28500200 or 28500400)

**Designer Note: Plans must show the alignment of the channel, cross-section of the channel, maximum depth of flow, channel slope and design velocity on the revetment mat. The intent is to inform the Contractor that they must submit a design for this pay item. Also include District Standard 19.4A.**

# **CONCRETE REVETMENT MATS**

Effective: January 1, 2015 Revised: October 5, 2021

This work shall consist of furnishing and placing Precast or Articulated Block Revetment Mat, as a permanent scour countermeasure in accordance with the grades, details and design dimensions as shown on the plans.

This work shall be completed according to Section 285 of the Standard Specifications and as specified herein:

The manufacturer shall use the alignment and cross-section of the channel, the design depth of flow, channel slope and design velocity provided in the plans to design the block size, block weight, block configuration, and mat configuration utilizing HEC 23 criteria.

The manufacturer shall be required to submit the design for the block mat, based on the existing field conditions and the hydraulic information for the various plan locations provided in the contract plans to the Resident Engineer, four weeks prior to delivery of the block to the jobsite.

Block used above normal pool elevation shall be open-cell to allow for vegetation growth. The block used below normal pool elevation shall be closed-cell block, unless otherwise noted in the plans.

The anchors (if required), cable and fittings shall be as specified by the manufacturer, and at the spacing specified by the manufacturer and shall not be paid for separately.

A 4 in. layer of clean aggregate, as specified by the manufacturer, is required for bedding, and is not paid for separately, but included in the price of the revetment mat.

Basis of Measurement: This work will be measured for payment in place and the area computed in square yards. The area for measurement will include the upper, sloped surface of the mat. The portion of the mat in trenches will not be measured for payment. No allowances will be made for overlaps.

Filter fabric will measured for payment according to Article 282.09.

Basis of Payment: This work will be paid for at the contract unit price per square yard for PRECAST BLOCK REVETMENT MAT or ARTICLUATED BLOCK REVETMENT MAT.

Filter Fabric will be paid for according to Article 282.09.

(No. 5) (Code # 20400800)

**NOTE: This provision is for small jobs with 500 cubic yards or less of furnished excavation.**

# **FURNISHED EXCAVATION**

Effective: July 1, 1994 Revised: October 28, 2010

The Furnished Excavation shall be measured by the truck load method. Prior to the start of work the Contractor and the Engineer shall agree to standard volume for the trucks utilized by the Contractor.

This work shall be paid for at the contract unit price per Cubic Yard for FURNISHED EXCAVATION.

(No. 6) (Code # Gen 542)

**NOTE: Use when working on dikes or flood control walls**

# **PIPE CULVERTS**

Effective: July 1, 1994

This work shall be done according to Section 542 of the Standard Specifications. The contractor shall do this work in such a manner that there will be no backwater passing thru the opening in the dike and flooding the adjacent properties. The contractor will also be required to backfill the outer 3 feet of the dike slopes with an impervious material. The contractor shall not start the culvert during unstable weather conditions or when unstable weather conditions are forecasted for the river basin.

This work will be paid for at the contract unit price per Foot for PIPE CULVERT of the type and size specified.

(No. 7) (Pay Item # 58600101)

**DESIGNER NOTE: Include if you have granular backfill behind structures. This used to be a Guide Bridge Special Provision. Now it’s a specification, which is automatically incorporated into the spec book for every contract. Consult with the District Geotechnical Engineer if you have any questions.**

# **GRANULAR BACKFILL FOR STRUCTURES**

Effective: April 19, 2012 Revised: July 16, 2024

Revise the third sentence of the first paragraph of Article 586.03 of the Specifications to read:

“The backfill volume shall be placed in Department acceptable lift thickness for the full width to be backfilled and shall be compacted to not less than 95 percent of the standard laboratory density.”

Delete the fourth sentence of the first paragraph of Article 586.03 of the Specifications.

(No. 8) (Code # Gen 202)

**NOTE: Use if rock cut is greater than 10' from ditch to top of rock and as specified in soils report.**

# **PRE-SPLITTING OF ROCK EXCAVATION**

Effective: July 1, 1994

This special provision covers the requirements of the drilling and blasting of any formation conducive to pre-splitting. Unless otherwise directed by the Engineer, all rock excavation which requires blasting operations shall be pre-split according to the provisions contained herein.

Pre-splitting is defined as the establishment of a free surface of shear plane by the controlled usage of explosives and blasting accessories in appropriately aligned and spaced drill holes. Drilling and blasting for pre-splitting shall be done well in advance of normal blasting operations.

Drill holes for pre-splitting shall be made along the slope stake lines established by the Engineer, and the Contractor shall exercise sufficient care to insure that the holes conform to the slope as established. The holes may be from 2½ inches to 4 inches in diameter and shall be drilled to the full depth of the cut or to the bench elevation, provided that the depth to the ditch or bench does not exceed a safe depth for accurate drilling. Unless otherwise permitted by the Engineer, the maximum depth of the drill holes shall be limited to 30 feet to 35 feet. If the depth of the cut to be pre-split is greater than the maximum permissible depth of the holes, the blasting shall be done in two or more lifts. When such conditions exist, the first line of drill holes shall be set at a sufficient distance outside the ditch line to allow a 1 foot offset for each succeeding line of drill holes.

Unless otherwise directed, the intervals between the drill holes shall be from 2 feet to 3 feet, depending on the character of the formation being pre-split. When it is deemed necessary by the Engineer to produce a relatively smooth face tolerably free of loose materials, the Contractor shall vary the spacing and size of the holes to suit the formation encountered. The Engineer may order short lines of test holes to determine the optimum size and spacing of drill holes and charges. No additional compensation will be allowed for test holes, drilling extra holes, or for using extra charges of dynamite.

The explosive shall be a 40% extra strength dynamite or other approved explosives that will produce equally satisfactory results. The charges shall be prepared by taping fractional portions of standard explosive cartridges to a length of detonating fuse equal to the depth of the drill holes. Unless otherwise directed, the charges shall be spaced at intervals of approximately 12 inches center-to-center of charges. The size and spacing of the individual charges may be varied, with the approval of the Engineer, to suit subsurface conditions encountered during construction.

After a charge is prepared, it shall be lowered into the hole and stemmed completely with lime dust, passing a 3/8 inch standard sieve. Stemming shall be worked around the taped charges by holding the end of the detonating fuse in the center of the hole and working it up and down. The Contractor, with the Engineer's approval, may place the charges with the aid of a measured loading pole by alternately placing the charges and the stemming material at the required intervals. All loaded holes shall be detonated simultaneously by the use of a trunk line.

The pre-split face shall not deviate more than 6 inches either side of the line of drill holes, except where the character of the formation being pre-split (badly broken rock, vertical seams, etc.) will unavoidably result in irregularities.

The Engineer may order the discontinuance of the pre-splitting operations when the formation is of such character that no apparent advantage is gained.

All primary blasting holes shall be drilled not less than three 3 feet from the pre-split face or at a wider interval, if necessary, to avoid overbreakage.

The cost of pre-splitting will be considered included in the contract unit price bid for ROCK EXCAVATION.

(No. 9) (Code #X7200105)

**NOTE: Use where the bridge is less than 2 feet wider than the roadway surface. See District Standard 32.2**

# **SIGN PANEL TYPE i (special)**

Effective: July 1, 1994 Revised: April 10, 2014

This work shall consist of installing chevron alignment signs (W1-8-1824), and posts as detailed in the plans.

The panel and post shall be mounted in a true vertical position and be flush with the post throughout the contact area.

The posts will be driven or set to the 3½ foot embedment. The top of the post will be protected by a suitable driving cap and, if required by the Engineer, the earth around the support will be compacted after driving.

This work will be paid for at the contract unit price per Square Foot for SIGN PANEL TYPE I (SPECIAL). The Contractor will receive the same payment for either the chevron sign with post or sign for narrow bridges with post.

(No. 10) (Code X4401198)

**NOTE:  This is intended for cross slope correction. Use this only when instructed to by Materials staff.**

**hot-mix asphalt SURFACE REMOVAL (VARIABLE DEPTH)**

Effective:  February 10, 1995                                   Revised:  December 29, 2015

This work shall consist of removing, by a self-propelled milling machine with automatic grade control, according to Section 440 of the Standard Specifications, the necessary existing hot-mix asphalt material from the existing surface at locations indicated in the plans. The purpose of grinding is to remove the rutting in the existing hot-mix asphalt surface. The Contractor shall mill ½ inch at the centerline, except when the milling at the outer edge of the surface exceeds 1½ inches; then the Contractor shall reduce the cut at the centerline to provide a maximum cut at the outer edge of the pavement of 1½ inches. If the outer edge cut still exceeds 1½ inches, the 1.5% (3/16 inch per foot

crown) slope may be reduced 1% to (1/8 of an inch per foot) so as to maintain a maximum cut at the outer edge of 1½ inches. Care shall be exercised in the removal not to gouge or damage the underlying concrete pavement.

This work will be paid for at the contract unit price per Square Yard for HOT-MIX ASPHALT SURFACE REMOVAL (VARIABLE DEPTH).

(No. 11) (Z0065703)

**NOTE: Use when deck drains are located in the first or last spans of viaduct structure and where extensive seepage is anticipated or the existing slope wall is to be replaced.**

**AGGREGATE SLOPE WALL, 9 INCHES**

Effective: July 1, 1994 Revised: December 29, 2015

This work shall consist of paving embankment slopes with crushed aggregate for control and prevention of erosion of slopes.

Material: The aggregate used for slope wall paving shall be crushed stone meeting requirements of Article 1005.01 and the following: The quality shall be Class A according to Article 1005.01(b) and the gradation shall be RR 2 according to the requirements of Article 1005.01(c)

Construction Requirements: The surface upon which the slope wall is to be constructed shall conform to the elevation lines, grades, and cross section indicated on the plans and as directed by the Engineer. The subgrade shall be shaped to ±0.1' of plan grade.

The slope, prior to placing aggregate, shall be compacted to a uniform density as directed by the Engineer. Excess excavated material shall be disposed of by the Contractor as provided in Section 502 of the Standard Specifications.

The crushed aggregate shall be placed on the prepared slope, shaped and compacted to the satisfaction of the Engineer. The aggregate shall be at least 9 inches thick. Geotechnical fabric shall be placed on the earth prior to placement of stone 5 feet either side of the deck drain spillage area and extend from top to bottom of the slope wall. When deck drains are not proposed in either the first or last span, the geotechnical fabric need not be placed.

Basis of Payment: This work will be measured and paid for at the contract unit price per Square Yard for AGGREGATE SLOPE WALL, 9 INCHES.

(No. 12) (Code #X8860400)

**NOTE: Detector Loop, Special paid for by the foot shall be included on 3P or Smart projects that have milling and existing detector loops.**

# **DETECTOR LOOP, SPECIAL**

Effective: December 15, 2009 Revised: March 11, 2010

This item shall consist of replacing detector loops, furnishing, installing, and testing in accordance with Section 886 of the current “Standards Specifications for Road Bridge Construction”.

This item shall include replacing any conduit stubs damaged during the surface grinding process. This shall also include any wire in conduit required to connect the loops.

Any 6’x20’ Detector Loops shall have a minimum of three turns of wire, any 6’x6’ Detector Loops shall have a minimum of four turns of wire. Detector Loops will be measured for payment along the sawed slot in the pavement only. The cables, from the end of the saw cut to the splice in the handhole, shall not be measured for payment since it is considered to be included in the cost of the Detector Loop.

Seven (7) days prior to any work that may affect the operation of the Detector Loops, and for signal timing adjustments to be made for the construction period and appropriate layout of Detector Loops for reinstallation. Notice shall be given to Scott Kullerstrand at the Illinois Department of Transportation, District 2 (815/284-5468).

This work will be paid for at the contract unit price per Foot for DETECTOR LOOP, SPECIAL.

(No. 13)

# **COMPLETION DATE plus working days**

Effective: December 29, 2006 Revised: April 22, 2019

Revise Article 108.05(b) of the Standard Specifications to read:

“(b) Completion Date Plus Working Days. When a completion date plus working days is specified, the Contractor shall complete all contract items to safely open all roadways to traffic by 11:59 p.m. on or prior to (DATE) , except as specified herein.

The Contractor will be allowed \_\_\_\_\_ working days after the completion date for opening the roadway to traffic to complete clean-up work and punch list items. Miscellaneous items may be completed within the working days allowed for clean-up work and punch list items if approved by the Engineer. Temporary lane closures for this work may be allowed at the discretion of the Engineer.”

(No. 14)

**NOTE: Use this on all bridge projects let in September or November, specify a start date of mid‑March of the following year. This can also be used for other projects let in the fall and other projects, see the Project Engineer.**

# **START DATE**

No work shall be started on this project until \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(No. 15) (Code # 20200200)

# **ROCK EMBANKMENT**

Effective: October 1, 1997

This work shall be done according to Section 205 of the Standard Specifications and as follows. Rock excavation used to construct embankments shall be placed in layers that extend full width to the foreslopes. Layering rock and soil will be allowed; however, compaction of the rock and/or broken pavement fill will be required. When a soil layer has been placed on top of rock fill and/or broken pavement, the layer shall not exceed 8 inches and will conform to embankment placement where passing density and moisture content will be required prior to any further embankment lifts being placed. Mixing wet soil and rock will not be allowed.

The cohesive soil which is to be placed on the foreslope to support vegetation should be a minimum of 2 feet, but not to exceed 3 feet in thickness. If the cohesive soil layer exceeds 3 feet in thickness, French Drains constructed and installed as shown on the District Standard for Subbase Drains will be required at the locations designated by the Resident Engineer.

This work shall not be paid for separately, but shall be considered as included in the various items of excavation.

(No. 16) (Code #63200310)

**NOTE: When using this provision, check with Operations to see if they want any of the guardrail. Could be Contractor, State, or both. If both, modify accordingly.**

# **GUARDRAIL REMOVAL**

Effective: August 20, 1990 Revised: April 10, 2014

This work shall be done according to Section 632 of the Standard Specifications except that all removed guardrail will become the property of the Contractor.

This work will be paid for at the contract unit price per Foot for GUARDRAIL REMOVAL, measured from center-to-center of end posts.

(No. 17)

**NOTE: Check with the City Engineer if this is to be inserted over their old water main. This is used to eliminate the vibrations that can crack joints of water main & sanitary sewers. When patching on a contract with this provision, schedule concrete patches only (i.e. Class A, B, or C). Density will be difficult to achieve on HMA patches.**

# **hot-mix asphalt PATCHING AND hot-mix asphalt BINDER AND SURFACE COURSE**

Effective: August 18, 1993 Revised: July 21, 2015

Article 406.07 - Compaction. This is to modify the first paragraph of the subject Article. Immediately after the Binder or Surface Course Mixtures are placed, each shall be given an initial or breakdown rolling with a three wheeled or tandem roller. After the initial rolling, the Binder or Surface course shall be given an intermediate rolling with a pneumatic-tired roller. The final or finish rolling shall be done with a tandem roller or vibratory roller in the static mode only. If density cannot be obtained with one three wheeled or tandem roller additional static rollers shall be added until density can be achieved.

(No. 18) (Code 25000750)

**NOTE: Use this on all 3R Projects, rural HES projects, and other projects that will be seeded. This is not to be used in urban areas. The purpose is to clear debris and mow grass so Operations doesn’t have to do it. If Operations mow they damage mowers because the contract doesn’t remove the debris.**

# **MOWING**

Effective: January 1, 2002 Revised: April 12, 2016

This work consists of mowing all Seeding Class 1A and Class 2A at the completion of the project or before winter shut down. The vegetation must be at least 6” long before mowing. The vegetation shall be mowed to obtain a height of not more than 3 inches. All debris must be cleared from the right-of-way immediately after the mowing.

This work will be paid for at the contract unit price per Acre for MOWING.

(No. 19) (Code #X4400196)

# **hot-mix asphalt SURFACE REMOVAL (SPECIAL)**

Effective: July 1, 2004 Revised: March 6, 2023

This work shall consist of removing random bumps from the pavement surface in accordance with applicable portions of Section 440 of the Standard Specifications and the following.

The random bumps shall be removed from the pavement surface throughout the project limits, by rotomilling, prior to placing the slurry seal or resurfacing. Care shall be exercised in the bump removal to not gouge or damage the underlying pavement or cause a dip in the pavement.

The Contractor has the option of using the millings from the bump grinding operations to build up the existing shoulders, as shown in the typical sections or as directed by the Engineer. If millings are not used to build up the shoulders, they shall become the property of the Contractor. When bump grinding is required in a curb and gutter section, the grindings are to be removed from the curb and gutter section and may be used on a shoulder area of the project. The shoulders shall be compacted as directed by the Engineer. Excess grindings or any large chunks that are not suitable for use or used on the shoulders shall be properly disposed of by the Contractor outside of the right‑of‑way. No grindings will be allowed on the foreslopes.

This work will be paid for at the contract unit price per Square Yard for HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL).

(No. 20) (Code #X4060310)

**NOTE: Use this material at locations that consist of 4” or less of Hot-Mix Asphalt placed on an aggregate base. Examples are runarounds, frontage roads, reconstructed City Streets and County or Township Roads that are a few hundred feet long, City Streets and County or Township Roads used as a detour route, and Good Neighbor policy roads. If just the returns of City Streets and County or Township Roads are being resurfaced or if the roads are short, use Incidental Hot-Mix Asphalt Resurfacing like entrances.**

# **Hot-Mix Asphalt Surface Course, MIX C, N50, Special**

Effective: October 17, 2007 Revised December 29, 2015

Description: This work shall consist of designing, producing and constructing a HMA Surface Course on a prepared base, according to Sections 406, 1030 and 1102 of the Standard Specifications, except as follows.

Materials: Surface Mixture 9.5 Mix C, N50 shall be placed on frontage roads, detours, Good Neighbor Policy roads, city streets, and county or township roads. All others shall match the Mixture and N number of the adjacent mainline.

Required Field Tests: Density Acceptance at 95% - 102% of growth curve at the frequency indicated in Article 1030.05(d)(3).

This work will be paid for at the contract unit price per Ton for HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, SPECIAL.

(No. 21) (Z0062456) Temporary Pavement (X4400110) Temporary Pavement Removal

**NOTE: This can be used for runarounds or temporary widening. Remember to add the Hot-Mix Asphalt thickness to the 2nd paragraph, and the N number to the 4th paragraph. The N number must match the proposed N number of the adjacent mainline. Do not use this option if the widening is less than 3’ wide. If the temporary pavement is going to be in use over the winter, use Type A subbase material, not Type B.**

# **TEMPORARY PAVEMENT**

Effective: October 17, 2007 Revised: October 5, 2021

This work shall consist of placing a Hot-Mix Asphalt Surface Course or Portland Cement Concrete Base Course and aggregate base to serve as a temporary widening or a runaround at the locations shown on the plans. The choice of material to be used for this item is left to the Contractor to choose from the following options:

HOT-MIX ASPHALT OPTION

This work shall consist of placing and compacting 8 inches of Sub-base Granular Material, Type B and constructing       inches of Hot-Mix Asphalt Surface Course to serve as a temporary runaround at the location shown on the plans. If the thickness is 3 inches or more, it should be placed in 2 lifts.

Description: This work shall consist of designing, producing and constructing a HMA Surface Course on a prepared base, according to Sections 311, 406, 1030 and 1102 of the Standard Specifications, except as follows.

Materials: Surface Mixture 9.5 Mix C, N50 shall be used.

Required Field Tests: Density Acceptance at 95% - 102% of growth curve at the frequency indicated in Article 1030.05(d)(3).

All work including earth excavation and materials required to complete the work listed above shall be included in the contract unit cost per Square Yard for TEMPORARY PAVEMENT.

The hot-mix asphalt and subbase shall be removed after stage two is completed. Removal shall be paid for separately at the contract unit price per Square Yard for TEMPORARY PAVEMENT REMOVAL.

PORTLAND CEMENT CONCRETE OPTION

This work shall consist of placing and compacting 4 inches of Subbase Granular Material, Type B and constructing an 8 inch thick Portland Cement Concrete Base Course to serve as a temporary runaround at the location shown on the plans. The minimum width shall be 3 feet. This work shall be completed according to Sections 311 and 353 of the Standard Specifications.

Welded wire reinforcement shall not be utilized in the base course.

The Contractor shall saw longitudinal joints in base courses wider than 16 feet, according to Standard 420001, except that uncoated steel tie bars may be used instead of epoxy coated tie bars. These joints shall not be sealed.

The Contractor shall saw transverse joints in the base course at 20’ centers according to the detail for Sawed Construction Joints in Standard 420001, except that dowel bars are not required. These joints shall not be sealed.

All work as listed above, including earth excavation, tie bars, sawed joints, and all other required materials shall be included in the contract unit price per Square Yard for TEMPORARY PAVEMENT.

The base course and sub-base, shall be removed. Removal shall be paid for separately at the contract unit price per Square Yard for TEMPORARY PAVEMENT REMOVAL.

(No. 22) (Code #X8410102)

# **TEMPORARY LIGHTING SYSTEM**

Effective: July 30, 2001 Revised: December 29, 2015

Description: This work shall consist of providing, installing, maintaining, and removing temporary roadway lighting at the location shown on the plans. The system shall consist of all items necessary to illuminate the median cross-over utilized for maintenance of traffic during construction.

General: The Contractor shall provide, identify and secure electrical service, install power poles, and connect required services for operation of the lights as shown on the plans. The Contractor is responsible for any service connection fees and electrical usage costs. The system shall be operational prior to the diversion of traffic on to Stage I construction. After completion of work, the Contractor shall remove the system in accordance with Section 841 of the Standard Specifications, except the last sentence of the first paragraph of Article 841.02, shall be replaced with:

All equipment and materials, including luminaires, shall become the property of the Contractor and shall be removed from the site.

Paragraphs two and three of Article 841.02 shall not apply.

Equipment: All equipment and installation requirements shall comply with applicable sections of Division 800 of the Standard Specifications for electrical work. Luminaries shall have a minimum mounting height of 35 foot, be a multi-mount type, and utilize a 400 watt high pressure sodium vapor lamp.

Basis of Measurement: This work will be measured for payment as lump sum.

Basis of Payment: This work shall be paid for at the contract unit price per Lump Sum for TEMPORARY LIGHTING SYSTEM.

(No. 23)

**NOTE: Include this in projects with multi cell precast box culverts.**

# **SPACERS FOR MULTI CELL PRECAST BOX CULVERTS**

Effective: October 17, 2008

The Contractor shall install 3” spacers near each joint and at the ends of multi cell box culverts. The spacers shall be placed in the 3” space between the box culvert sections prior to filling the void with concrete. The spacers shall run the full height of the culvert and be a solid material, but shall not be wood. The purpose of the spacers is to maintain the space between the culverts during backfilling before the concrete is set.

This work shall be included in the contract unit price per Foot for PRECAST CONCRETE BOX CULVERT of the size specified.

(No. 24) (Z0004542)

**NOTE: Use when cold milling the pavement, but not the HMA shoulders, so there is the possibility to trap water on the pavement. Schedule these at low points and at approximately 500’ intervals.**

# **HOT-MIX ASPHALT REMOVAL (SPECIAL)**

Effective: August 24, 2009 Revised: April 10, 2014

This work shall consist of cold milling a drainage channel through the existing shoulder and replacing the mix after the mainline has been resurfaced. The work shall be done according to Section 408 & 440 of the specification book.

To prevent pooling of water in the milled traffic lane, a drainage channel shall be cut in the shoulder at low points and other locations where pooling of water may occur, as specified by the Engineer. The drainage channel shall be the same depth as the traffic lane and a width of 18” to 24”.

After the surface has been placed on the adjacent through lane, the drainage channel shall be primed and filled with incidental hot-mix asphalt surfacing and compacted to the satisfaction of the Engineer.

This work will be paid for at the contract unit price per Square Yard for HOT-MIX ASPHALT REMOVAL (SPECIAL).

(No. 25) (Z0028415)

**NOTE: Include when using District Standard 97.4 Subgrade Replacement or when recommended by Materials under granular subbase. CHECK WITH BUREAU OF MATERIALS for use**.

# **GEOTECHNICAL REINFORCEMENT**

Effective: June 17, 2022 Revised: April 10, 2014

This work consists of furnishing and installing an integrally-formed polypropylene geotechnical grid reinforcement material. The geogrid shall have an aperture, rib and junction cross section sufficient to permit significant mechanical interlock with the material being reinforced. There shall be a high continuity of tensile strength through all ribs and junctions of the grid material to reinforce the subbase or subgrade as shown on the plans and specifications.

|  |  |  |
| --- | --- | --- |
| MATERIAL CHARACTERISTICS | TEST METHOD | DATA |
| polymer type |  | polypropylene |
| ultra violet stability | ASTM D 4355 | 50% |

|  |  |  |  |
| --- | --- | --- | --- |
| DIMENSIONAL CHARACTERISTICS | TEST METHOD | UNIT | DATA |
| open area | CW 02215 | % | 75 (max.) |
| unit weight | ASTM D 5261 | oz/yd2 | 5.0 (min.) |
|  |  |  |  |
|  |  |  |  |
| TECHNICAL CHARACTERISTICS | TEST METHOD | UNIT | DATA |
| junction efficiency | GRI-GG2 | % | 90 (min.) |

The supplier should provide a certification that their product meets the above requirements.

The geotechnical reinforcement shall be placed as described herein or as shown on the cross sections.

Geogrid shall be delivered to the jobsite in such a manner as to facilitate handling and incorporation into the work without damage. Material shall be stored in such a manner as to prevent exposure to direct sunlight and damage by other construction activities.

Prior to the installation of the geogrid, the application surface shall be cleared of debris, sharp objects and trees. Tree stumps shall be cut to the level of the ground surface. If the stumps cannot be cut to the ground level, they shall be completely removed. In the case of subgrades, all wheel tracks or ruts in excess of 3 inches in depth shall be graded smooth or otherwise filled with soil to provide a reasonably smooth surface.

The geotechnical reinforcement shall be placed with the “roll length” parallel to the pavement. Fabric of insufficient width or length to fully cover the specified area shall be lapped a minimum of 24 inches. The geogrid should be secured in place.

Installation:

The granular blanket shall be constructed to the width and depth required on the plans. Unless otherwise specified, the material shall be back-dumped on the Geogrid in a sequence of operations beginning at the outer edges of the treatment area with subsequent placement towards the middle.

Placement of material on the Geogrid shall be accomplished by spreading dumped material off of previously placed material with a bulldozer blade or endloader, in such a manner as to prevent tearing or shoving of the Geogrid. Dumping of material directly on the Geogrid will only be permitted to establish an initial working platform. No construction equipment shall be allowed on the Geogrid prior to placement of the granular blanket. If the geogrid develops wrinkles or moves significantly, an alternative method of securing it shall be used.

Unless otherwise specified in the plans or Special Provisions, the granular material, shall be placed to the full required thickness and compacted to the satisfaction of the Engineer.

Geogrid which is damaged during installation or subsequent placement of granular material, due to failure of the Contractor to comply with these provisions, shall be repaired or replaced at his expense, including costs of removal and replacement of the granular material.

Torn Geogrid may be patched in-place by cutting and placing a piece of the same Geogrid over the tear. The dimensions of the patch shall be at least 2 feet larger than the largest dimension of the tear and it shall be weighted or otherwise secured to prevent the granular material from causing lap separation.

Method of Measurement: Geotechnical Reinforcement will be measured in square yards for the surface area placed. The excavation, replacement and compaction of the granular layer shall be paid for separately.

Basis of Payment: This work will be measured in place and the area computed in square yards. The work will be paid for at the contract unit price per Square Yard for GEOTECHNICAL REINFORCEMENT.

(No. 26) (Code #X2020410)

# **EARTH EXCAVATION (SPECIAL)**

Effective: January 29, 2001

This work shall be done according to applicable portions of Section 202 of the Standard Specifications.

This work shall include the careful removal of soil around GPS monuments. The removal work shall be done by hand at all locations as shown on the plans. No machinery will be allowed within 9 feet of the indicated monuments.

The Contractor will be required to backfill the area by hand to ensure no disturbance. The Contractor shall do all work in a manner that there will be no disturbance to any GPS monuments.

If the Contractor disturbs/damages the GPS monument, the Contractor shall be required to replace the monument at his/her expense.

This work shall be paid for at the contract unit price per Cubic Yards for EARTH EXCAVATION (SPECIAL). The cost of embankment in these areas will be included in the price of EARTH EXCAVATION (SPECIAL).

(No. 27) (Code #Z0004638)

**NOTE: Use when the existing pavement and the proposed subgrade is between 3" and 3'. See Article 205.03(b)(2). For questions, see the Geotechnical Engineer.**

# **PAVEMENT BREAKING**

Effective: June 1, 1994 Revised: October 5, 2021

This work shall consist of breaking the existing pavement according to Article 205.03(b)(2) of the Standard Specifications, except that all pavement that is not removed, but has greater than or equal to 3" fall from the bottom of the subbase to the existing pavement shall be broken.

All costs incurred in complying with the provisions shall be considered included in the contract unit price per Square Yard for PAVEMENT BREAKING.

(No. 28) (Code #X4421000)

# **partial depth PATCHING**

Effective: May 14, 2003 Revised: December 29, 2015

This work shall consist of placing material at the locations shown in the plans or as directed by the Engineer to temporarily patch the pavement where culverts or storm sewer were installed. This work shall also include removing and disposing of the Partial Depth Patching before the permanent pavement is installed. All work shall conform to Sections 351 and 442 of the Standard Specifications.

The patches shall consist of 12” of Aggregate Base Course Type A and 3” of Incidental Hot-Mix Asphalt Surfacing. If hot-mix asphalt (HMA) is not available due to winter plant shutdown, cold patch bituminous material shall be installed and maintained until such time that HMA becomes available. As soon as HMA is available, the cold patch material shall be removed and HMA shall be installed. This work shall not be paid separately but shall be considered included in the unit price per Ton for PARTIAL DEPTH PATCHING.

Patches shall be measured in place for payment in Tons.

This work shall be paid for at the contract unit price per Ton for PARTIAL DEPTH PATCHING.

(No. 29) (Code Z0007430)

**NOTE: Temporary sidewalks can be used up to a maximum of four weeks.**

# **TEMPORARY SIDEWALK**

Effective: March 14, 2012 Revised: October 5, 2021

This work shall consist of placing Temporary Sidewalk at the locations shown in the plans or as directed by the Engineer to temporarily patch the sidewalk where culverts or storm sewer were installed. This work shall also include removing, disposing, and maintaining the Temporary Sidewalk before the permanent sidewalk is installed. All work shall conform to Sections 351 of the Standard Specifications.

The Temporary Sidewalk shall consist of 5” of Aggregate Base Course Type B. This work shall not be paid separately but shall be considered included in the unit price per Square Foot for TEMPORARY SIDEWALK.

Temporary Sidewalk shall be measured in place for payment in Square Feet.

This work shall be paid for at the contract unit price per Square Foot for TEMPORARY SIDEWALK.

(No. 30) (Code #X2070302)

**NOTE: This material to be used to fill undercut under precast or cast-in-place box culverts. Check with the geotechnical engineer to see if this should be used.**

# **POROUS GRANULAR EMBANKMENT, SPECIAL**

Effective: June 8, 1994 Revised: April 12, 2016

This work shall consist of furnishing, transporting, and placing porous granular material according to Section 207 of the Standard Specifications, except as follows: The material shall be CA 7. The coarse aggregate shall be according to Section 1004 of the Standard Specifications.

The top 6” of porous granular material placed under precast concrete box culverts shall be done according to Article 540.06 of the Standard Specifications, except CA7 shall be used. The cost of the top 6” of porous granular material under precast concrete box culverts will be included in the cost of the box culvert.

The porous granular material placed under precast concrete box culverts below the top 6” will be paid for as POROUS GRANULAR EMBANKMENT, SPECIAL.

This work will be paid for at the contract unit price per Ton for POROUS GRANULAR EMBANKMENT, SPECIAL.

(No. 31)

**NOTE: This should be used on long 3R projects. Do not use on bridge projects with only a few hundred feet of roadway.**

# **MAINTENANCE OF ROADWAYS**

Effective: June 26, 2003 Revised: April 4, 2023

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work such as patching, intermittent resurfacing, sign maintenance, and shoulder work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

(No. 32)

**Designer Note: Include on all projects with cast-in-place concrete. See the Mixtures Control Engineer if you have any questions.**

# **PCC AUTOMATIC BATCHING EQUIPMENT**

Effective: January 1, 2015 Revised: January 31, 2023

Portland cement concrete provided shall be produced from batch plants that conform to the requirements of Article 1103.03 (a) and (b) of the Standard Specifications for Road and Bridge Construction. Semi-automatic batching will not be allowed.

Plants shall have computerized batching interfaced with a printer. IDOT Producer Number, IDOT Design Number, Concrete Material Code, batch weights, aggregate mixtures, water added, amount of each admixture or additive, and percent variance from design shall be printed for each batch. Tickets shall state the actual water-cement ratio as batched, and the amount of water that can be added to the batch without exceeding the maximum water-cement ratio. Truck delivery tickets are still required as per Article 1020.11(a)(7) of the Standard Specifications.

(No. 33)

**Designer Note: Include on all projects with cast-in-place concrete. See the Mixtures Control Engineer if you have any questions.**

# **PCC QC/QA ELECTRONIC REPORTS SUBMITTAL**

Effective: January 1, 2015 Revised: January 31, 2023

The Contractor’s QC personnel shall be responsible for electronically submitting the following reports to the Department: PRO and IND data for BMPR MI654 “Concrete Air, Slump, and Quantity,”; PRO data for BMPR MI655 “P.C. Concrete Strength,” and PRO data for BMPR MI504 “Aggregate Gradation” reports to the Department. The format for the electronic submittals shall be the QMP package reporting program, which will be provided by the Department. Microsoft Excel 2007 or newer and Microsoft Outlook is required for this program which shall be provided by the Contractor.

(No. 34)

**NOTE: Include this when using #33 Earth Excavation (Special)**

# **GPS MONUMENTS**

Effective: March 14, 2001

Work around GPS monuments will be done in conjunction with the Special Provision for Earth Excavation (Special).

The Contractor shall be aware that the cost to replace a GPS or vertical monument will be very costly and time consuming. These monuments shall be protected at all costs.

At the end of the project, a detailed report shall be submitted to assure there has been no movement of the suspect monument. If a disturbance/damage is detected, the Contractor will coordinate with the State of Illinois Survey Department for proper recourse. If the Contractor disturbs/damages a GPS monument, the Contractor shall be required to replace the monument at no additional cost to the Department. Monument shall be replaced in or near the original location. If the Monument was a horizontal only monument, then it shall be replaced and submitted to NGS for inclusion into the NSRS at the same or better Order and Class. If the Monument was a vertical monument, it will have to be re-elevated according to NGS standards for vertical control, including the use of approved certified Invar Rods, Thermesters, Electronic Level and approved notes (the method and procedure shall be reviewed and approved before this work will proceed). Each of these monument types will require new NGS approved descriptions. Each monument reset shall be set as a Top Security Sleeve Rod Monument and set with installation instructions provided by the District Chief of Surveys.

(No. 35)

**NOTE: Use this on very large complicated projects or complicated projects with a completion date. Confirm with Construction Unit which of 3 type (A, B or C) Critical Path Schedule to include.**

**CRITICAL PATH SCHEDULE - TYPE A**

Description

This work shall consist of preparing, revising, and updating a detailed progress schedule based upon the Critical Path Method (CPM). This work shall also consist of performing time impact analysis of the progress schedule based upon the various revisions and update as they occur.

General

Revise the first and second paragraphs of Article 108.02 of the Standard Specifications to read:

“After the award of the contract and prior to starting of work, the Contractor shall submit to the Engineer a satisfactory progress schedule, which shall show the proposed sequence of work, including traffic control and staging, and how the Contractor proposes to complete the various items of work within the number of working days setup in the contract or on or before the completion date specified in the contract. Additionally, the Contractor shall submit an updated progress schedule on the first Monday of each month and as deemed necessary by the Engineer. The progress schedule shall be the intended work schedule and shall be used to plan, organize, and execute the work; record and report actual performance and progress, and forecast remaining work.

The progress schedule shall be used as a basis for establishing the controlling item of the construction operations and for checking the progress of all work under the contract. The controlling item shall be defined as the item which must be completed either partially or completely to permit continuation of progress. It shall be the responsibility of the Contractor to show the intended rate of production **for each controlling item** listed on the schedule during the period such item is controlling.”

Revise the fifth paragraph of Article 108.02 of the Standard Specifications to read:

“No payment under this contract will be made until a progress schedule has been submitted for approval. Payment may be withheld until a satisfactory schedule has been submitted and approved. If the Contractor deviates from the current approved progress schedule by not following the logical sequence of the critical path, payment will be withheld until a revised progress schedule is submitted and approved by the Engineer. Payment may be withheld if scheduled updated progress schedules are not submitted as required.”

Revise the first paragraph of Article 108.03 of the Standard Specifications to read:

“Time is of the essence in this contract. The Contractor shall begin the work to be performed under the contract not later than ten days after the execution of the contract by the Department, unless otherwise provided in the contract. The work shall be prosecuted in such a manner and with such a supply of materials, equipment and labor as is considered necessary to ensure its completion according to the time specified in the contract.

Requirements

The progress schedule shall be developed using a project management software approved by the Engineer. The progress schedule submitted shall be a Gantt chart with a tabular data report for each activity and accompanied by a narrative report.

1. Format

The electronic schedule format shall contain the following on each page printed:

* + Project Name
  + Project Title: Contract number
  + Company Name: Contractor’s name
  + Type and edition of software
  + Submittal date
  + Number/Version: Original or update number
  + Planning Unit: Calendar Days or Working Days
  + Start Date of contract work
  + Milestone Completion Date(s) as specified in contract documents
  + Page number

1. Target Schedule Development
   1. The Contractor shall take account in the schedule for any critical closure periods and limitations of operations specified in Article 107.09 of the Standard Specifications or the contract documents
2. Schedule Updates

1. All updates shall be plotted against the Target Schedule. The Contractor shall not make any changes to the original duration, activity relationships or constraints, and shall not add or delete activities, or alter the Target Schedule’s logic when updating the schedule.

2. The updated information will include the original schedule detail and the following

additional information:

* Actual start dates
* Actual finish dates
* Activity percent completion
* Remaining duration of activities in progress
* Identified or highlighted critical activities

3. The Engineer shall withhold progress payments if the Contractor does not submit scheduled updates as required.

4. Upon receipt of the updated CPM progress schedule, the Engineer will review the schedule for conformance with the Contract Documents and degree of detail. The Engineer, within 14 calendar days after receipt of the updated CPM progress schedule and supporting documents, will approve or reject it with written comments. If the updated CPM progress schedule is rejected, the Contractor must submit a revised updated CPM progress schedule within seven calendar days after the date of rejection.

5. The updated progress schedule must accurately represent the Project’s current status.

1. Schedule Revisions

Revisions to the Target Schedule may be initiated by a proposal by the Contractor or by direction from the Engineer.

1. Contractor Changes to the Target Schedule.

The Contractor shall comply with the following requirements regarding proposed changes to the Target Schedule:

* If the Contractor proposes to make any changes in the Target Schedule, the Contractor shall notify the Engineer in writing, stating the reasons for the change, identifying each changed activity (including duration and interrelationships between activities) and providing a submittal including compact discs and printed copies of the proposed revised schedule. Every effort must be made by the Contractor to retain the original Activity ID numbers.
* The Engineer has the authority to approve or reject the proposed change(s) in the Target Schedule and shall do so in writing within 14 calendar days after receipt of the Contractor’s submittal. If the Engineer approves the change in the Target Schedule, all future monthly updates will be plotted against the new Target Schedule.
* If the Engineer approves a portion of the change to the Target Schedule, the Contractor shall submit a revised schedule incorporating such change(s) within seven calendar days after the partial approval along with a written description of the change(s) to the schedule.

2. Engineer Changes to the Target Schedule

The Engineer may direct the Contractor to revise the approved baseline CPM progress schedule. Reasons for such direction may include, are limited to the following: (1) changes in the work, (2) re-phasing of the Project or any phase, (3) a change in the duration of the Project or phase, and (4) acceleration of the Project or phase.

* The Engineer will direct the Contractor to provide a revised CPM schedule in writing.
* The Contractor shall submit the revised CPM progress schedule within ten calendar days of receipt of the Engineer’s written direction.
* The Engineer has the authority, in its sole discretion, to approve or reject the revised CPM progress schedule and will do so in writing within fourteen calendar days after receipt of the Contractor’s submittal If the Engineer approves the revised CPM progress schedule, such schedule will be designated the new “Target Schedule”.
* If the Engineer approves a portion of the change to the Target Schedule, the Contractor shall submit a revised schedule incorporating such change(s) within seven calendar days after the partial approval along with a written description of the change(s) to the schedule.

1. Schedule Presentation (Gantt Chart)  
   1. The following shall be included for each activity in the graphic part of the schedule in the Gantt chart format:

* Activity identification numbers
* Description of the work activity
  + Maximum 45 characters
  + Usage of percentage numbers shall not be permitted in the description
  + Multiple activities with the same description shall include a location as part of the description
* Duration of the work activity in whole days
  + Must be contiguous and not interruptible
  + Include production rates
* Sequence and interdependence of work activities
  + Sequence shall not violate the schedule logic
* Critical path to milestone and contract completion
  + Only one (1) controlling item shall be designated at any point in time on the schedule
  1. Work activities shall be broken down such that each activity encompasses a single operation or tightly-integrated operations in a single, contiguous and continuous area of the project. Each activity shall have a duration of not more than 20 working days, except for non-work type activities (such as mobilization), unless otherwise approved by the Engineer.
  2. Include the following dates:  
     + Start/End for each stage of construction
     + Milestones identified in the contract
     + Document Submittals
       - Shop drawings, etc.
     + Work activities
     + Equipment, Access, Installation
  3. Calculate total float as finish float. Calculate the schedule using retained logic. Do not sequester float by calendar manipulations or extended duration. Float is not for the exclusive use or benefit of either the Department or the Contractor.
  4. Include a legend defining all abbreviations, terms, and symbols used

1. Schedule Presentation (Tabular Data Reports)  
   1. A tabular data report is required with each progress schedule submittal and may be printed on the same pages as the Gantt chart.
   2. The heading of each tabular data report, if not printed on the same ages as the Gantt chart, shall include, but not limited to:  
      * Project name
      * Contract number
      * Contractor Name
      * Submittal date
      * Data date
      * Report title
      * Page number
   3. Each of the tabular reports shall contain the following minimum information for each activity.  
      * Activity Identification Number
      * Activity description
      * Duration (Calendar Days or Working Days)
        + Original
        + At completion
      * Production rate
      * Start date
      * Finish date
      * Percentage complete
      * Total float
      * Subcontractor Name (if work activity is performed by a subcontractor)
2. Narrative Report

Prepare a written narrative report to be included in each progress schedule submittal.

1. Initial Project Schedule  
   The narrative report submitted for the initial project schedule prior to starting construction shall include the following information:  
   * Description of the critical path
   * Identification of potential problem areas
   * Proposed solutions to potential problems
   * Detailed description of the approach to weather days
     + Include estimated number of weather days for each month
     + Adverse weather days must be planned for.
2. Project Schedule Updates  
   When an updated project schedule is being submitted, after the initial project schedule has been approved, the narrative report shall include the following information:  
   * Summary of work accomplished since last submittal
   * Contract milestone comparison chart (if applicable)
   * Analysis of future critical path
   * Analysis of time lost/gained since last submittal
   * Summary of revisions in the progress schedule (if any)
   * If behind schedule, summary of how the revised progress schedule will bring the project back on schedule
   * Identification of problem areas
   * Recommended solutions to current problems
   * Actual number of weather days since last submittal
3. Revision Narrative.

The narrative report submitted with any Revised CPM progress schedule shall explain the reason(s) for the changes and how the submitted changes address the reason(s). This written report must include the following information:

* Summary reason(s) for the Revised CPM progress schedule.
* Contract milestone comparison chart, if applicable.
* Analysis of critical path.
* Summary of how the Revised CPM progress schedule resolves the

issues/reasons requiring the submittal.

Review and Approval Process

The Contractor shall electronically submit the progress schedule to the Engineer for review in both its original file format and in pdf format.

The Engineer will notify the Contractor in writing, within 14 calendar days after receiving any progress schedule submittal or resubmittal, if the schedule is approved or if any corrections or revisions are required. If corrections or revisions are required to the progress schedule, the Contractor shall submit the revised progress schedule to the Engineer within 7 calendar days after receiving the Engineer’s request for corrections or revisions.

Submittals that are required to be revised and resubmitted shall have the revisions clouded or annotated to designate revisions.

Acceptance or approval of any progress schedule by the Engineer shall not be construed to imply approval of any particular method of construction, sequence of construction, any implied or stated rate of production. Acceptance will not act as a waiver of the obligation of the Contractor to complete the work in accordance with the contract proposal, plans and specifications, modify any rights or obligations of the Department as set forth in the contract, nor imply any obligation of a third party. Acceptance shall not be construed to modify or amend the contract or the time limit(s) therein. Acceptance shall not relieve the Contractor of the responsibility for the accuracy of any of the information included on the schedule. Failure of the Contractor to include in the schedule any element of work required for the performance of the contract, any sequence of work required by the contract, or any known or anticipated condition affecting the work shall not excuse the Contractor from completing all work required within the time limit(s) specified in the contract notwithstanding acceptance of the schedule by the Engineer.

Basis of Payment

This work will not be paid for separately, but shall be included in the cost for MOBILIZATION.

**CRITICAL PATH SCHEDULE – TYPE B**

Description

This work shall consist of preparing, revising, and updating a detailed progress schedule based upon the Critical Path Method (CPM). This work shall also consist of performing time impact analysis of the progress schedule based upon the various revisions and update as they occur.

General

Revise the first and second paragraphs of Article 108.02 of the Standard Specifications to read:

“After the award of the contract and prior to starting of work, the Contractor shall submit to the Engineer a satisfactory progress schedule, which shall show the proposed sequence of work, including traffic control and staging, and how the Contractor proposes to complete the various items of work within the number of working days setup in the contract or on or before the completion date specified in the contract. Additionally, the Contractor shall submit an updated progress schedule on the first Monday of each month and as deemed necessary by the Engineer. The progress schedule shall be the intended work schedule and shall be used to plan, organize, and execute the work; record and report actual performance and progress, and forecast remaining work.

The progress schedule shall be used as a basis for establishing the controlling item of the construction operations and for checking the progress of all work under the contract. The controlling item shall be defined as the item which must be completed either partially or completely to permit continuation of progress. It shall be the responsibility of the Contractor to show the intended rate of production **for each controlling item** listed on the schedule during the period such item is controlling.”

Revise the fifth paragraph of Article 108.02 of the Standard Specifications to read:

“No payment under this contract will be made until a progress schedule has been submitted for approval. Payment may be withheld until a satisfactory schedule has been submitted and approved. If the Contractor deviates from the current approved progress schedule by not following the logical sequence of the critical path, payment will be withheld until a revised progress schedule is submitted and approved by the Engineer. Payment may be withheld if scheduled updated progress schedules are not submitted as required.”

Revise the first paragraph of Article 108.03 of the Standard Specifications to read:

“Time is of the essence in this contract. The Contractor shall begin the work to be performed under the contract not later than ten days after the execution of the contract by the Department, unless otherwise provided in the contract. The work shall be prosecuted in such a manner and with such a supply of materials, equipment and labor as is considered necessary to ensure its completion according to the time specified in the contract.

Requirements

The progress schedule shall be developed using a project management software approved by the Engineer. The progress schedule submitted shall be a Gantt chart with a tabular data report for each activity and accompanied by a narrative report.

1. Format

The electronic schedule format shall contain the following on each page printed:

* + Project Name
  + Project Title: Contract number
  + Company Name: Contractor’s name
  + Type and edition of software
  + Submittal date
  + Number/Version: Original or update number
  + Planning Unit: Calendar Days or Working Days
  + Start Date of contract work
  + Milestone Completion Date(s) as specified in contract documents
  + Page number

1. Target Schedule Development
   1. The Contractor shall take account in the schedule for any critical closure periods and limitations of operations specified in Article 107.09 of the Standard Specifications or the contract documents
2. Schedule Updates

1. All updates shall be plotted against the Target Schedule. The Contractor shall not make any changes to the original duration, activity relationships or constraints, and shall not add or delete activities, or alter the Target Schedule’s logic when updating the schedule.

2. The updated information will include the original schedule detail and the following

additional information:

* Actual start dates
* Actual finish dates
* Activity percent completion
* Remaining duration of activities in progress
* Identified or highlighted critical activities

3. The Engineer shall withhold progress payments if the Contractor does not submit scheduled updates as required.

4. Upon receipt of the updated CPM progress schedule, the Engineer will review the schedule for conformance with the Contract Documents and degree of detail. The Engineer, within 14 calendar days after receipt of the updated CPM progress schedule and supporting documents, will approve or reject it with written comments. If the updated CPM progress schedule is rejected, the Contractor must submit a revised updated CPM progress schedule within seven calendar days after the date of rejection.

5. The updated progress schedule must accurately represent the Project’s current status.

1. Schedule Revisions

Revisions to the Target Schedule may be initiated by a proposal by the Contractor or by direction from the Engineer.

1. Contractor Changes to the Target Schedule.

The Contractor shall comply with the following requirements regarding proposed changes to the Target Schedule:

* If the Contractor proposes to make any changes in the Target Schedule, the Contractor shall notify the Engineer in writing, stating the reasons for the change, identifying each changed activity (including duration and interrelationships between activities) and providing a submittal including compact discs and printed copies of the proposed revised schedule. Every effort must be made by the Contractor to retain the original Activity ID numbers.
* The Engineer has the authority to approve or reject the proposed change(s) in the Target Schedule and shall do so in writing within 14 calendar days after receipt of the Contractor’s submittal. If the Engineer approves the change in the Target Schedule, all future monthly updates will be plotted against the new Target Schedule.
* If the Engineer approves a portion of the change to the Target Schedule, the Contractor shall submit a revised schedule incorporating such change(s) within seven calendar days after the partial approval along with a written description of the change(s) to the schedule.

2. Engineer Changes to the Target Schedule

The Engineer may direct the Contractor to revise the approved baseline CPM progress schedule. Reasons for such direction may include, are limited to the following: (1) changes in the work, (2) re-phasing of the Project or any phase, (3) a change in the duration of the Project or phase, and (4) acceleration of the Project or phase.

* The Engineer will direct the Contractor to provide a revised CPM schedule in writing.
* The Contractor shall submit the revised CPM progress schedule within ten calendar days of receipt of the Engineer’s written direction.
* The Engineer has the authority, in its sole discretion, to approve or reject the revised CPM progress schedule and will do so in writing within fourteen calendar days after receipt of the Contractor’s submittal If the Engineer approves the revised CPM progress schedule, such schedule will be designated the new “Target Schedule”.
* If the Engineer approves a portion of the change to the Target Schedule, the Contractor shall submit a revised schedule incorporating such change(s) within seven calendar days after the partial approval along with a written description of the change(s) to the schedule.

1. Schedule Presentation (Gantt Chart)  
   1. The following shall be included for each activity in the graphic part of the schedule in the Gantt chart format:

* Activity identification numbers
* Description of the work activity
  + Maximum 45 characters
  + Usage of percentage numbers shall not be permitted in the description
  + Multiple activities with the same description shall include a location as part of the description
* Duration of the work activity in whole days
  + Must be contiguous and not interruptible
  + Include production rates
* Sequence and interdependence of work activities
  + Sequence shall not violate the schedule logic
* Critical path to milestone and contract completion
  + Only one (1) controlling item shall be designated at any point in time on the schedule
  1. Work activities shall be broken down such that each activity encompasses a single operation or tightly-integrated operations in a single, contiguous and continuous area of the project. Each activity shall have a duration of not more than 20 working days, except for non-work type activities (such as mobilization), unless otherwise approved by the Engineer.
  2. Include the following dates:  
     + Start/End for each stage of construction
     + Milestones identified in the contract
     + Document Submittals
       - Shop drawings, etc.
     + Work activities
     + Equipment, Access, Installation
  3. Calculate total float as finish float. Calculate the schedule using retained logic. Do not sequester float by calendar manipulations or extended duration. Float is not for the exclusive use or benefit of either the Department or the Contractor.
  4. Include a legend defining all abbreviations, terms, and symbols used

Review and Approval Process

The Contractor shall electronically submit the progress schedule to the Engineer for review in both its original file format and in pdf format.

The Engineer will notify the Contractor in writing, within 14 calendar days after receiving any progress schedule submittal or resubmittal, if the schedule is approved or if any corrections or revisions are required. If corrections or revisions are required to the progress schedule, the Contractor shall submit the revised progress schedule to the Engineer within 7 calendar days after receiving the Engineer’s request for corrections or revisions.

Submittals that are required to be revised and resubmitted shall have the revisions clouded or annotated to designate revisions.

Acceptance or approval of any progress schedule by the Engineer shall not be construed to imply approval of any particular method of construction, sequence of construction, any implied or stated rate of production. Acceptance will not act as a waiver of the obligation of the Contractor to complete the work in accordance with the contract proposal, plans and specifications, modify any rights or obligations of the Department as set forth in the contract, nor imply any obligation of a third party. Acceptance shall not be construed to modify or amend the contract or the time limit(s) therein. Acceptance shall not relieve the Contractor of the responsibility for the accuracy of any of the information included on the schedule. Failure of the Contractor to include in the schedule any element of work required for the performance of the contract, any sequence of work required by the contract, or any known or anticipated condition affecting the work shall not excuse the Contractor from completing all work required within the time limit(s) specified in the contract notwithstanding acceptance of the schedule by the Engineer.

Basis of Payment

This work will not be paid for separately, but shall be included in the cost for MOBILIZATION.

**CRITICAL PATH SCHEDULE – TYPE C**

Effective: February 10, 1995 Revised: September 27, 2024

The construction of this project will be planned and recorded with a conventional Critical Path Method (CPM) as specified in Article 108.02 of the Standard Specifications and the following:

The Contractor is responsible for preparing the initial schedule in the form of an activity on arrow diagram which shall include activity description and duration, two copies shall be submitted to the Engineer at the preconstruction meeting. The construction time, as determined by the schedule shall not exceed the specified contract time. The schedule shall be updated the first of each month, when there is a delay in completion of any critical activity, or when the contract is modified causing additions, deletion or revision of activities required.

(No. 36) – (Code No. Z0054500)

**NOTE: Use under box culvert or pipe culvert when specified by Springfield or Materials.**

# **ROCK FILL**

Effective: May 1, 1995 Revised: August 29, 2013

This work shall consist of placing CS02 at locations shown in the plans, except for the bedding material provided (in Article 540.06) for box culverts or (in Article 542.04(c)) pipe culverts. The granular bedding layer is included in the unit price for Precast Concrete Box Culverts and Pipe Culverts. The 6 inch bedding layer under Cast-in-Place Culverts shall be gradation CA07, and shall be paid for as ROCK FILL.

The CS02 shall consist of crushed gravel, crushed stone, or crushed concrete of sound durable particles, reasonably free of deleterious materials meeting the following gradation:

|  |  |  |  |
| --- | --- | --- | --- |
| Grad No. | Sieve Size and Percent Passing | | |
| 6” | 4” | 2” |
| CS02 | 100 | 80±10 | 25±15 |

This work shall be paid for at the contract unit price per Ton for ROCK FILL.

(No. 37)

**NOTE: Include when using District Standard 10.1, Box Culvert End Sections.**

# **box culvert end sections**

Effective: June 1, 2014 Revised: April 12, 2016

Description. This work shall consist of constructing cast-in-place concrete and precast concrete end sections for box culverts. These end sections are shown on the details in the plans. This work shall be according to Section 540 of the Standard Specifications except as modified herein.

Materials. Materials shall be according to the following Articles of Division 1000 – Materials of the Standard Specifications.

Item Article/Section

(a) Portland Cement Concrete (Note 1) 1020

(b) Precast Concrete End Sections (Note 2)

(c) Coarse Aggregate (Note 3) 1004.05

(d) Structural Steel (Note 4) 1006.04

(e) Anchor Bolts and Rods (Note 5) 1006.09

(f) Reinforcement Bars 1006.10(a)

(g) Nonshrink Grout 1024.02

(h) Chemical Adhesive Resin System 1027

(i) Mastic Joint Sealer for Pipe 1055

(j) Handling Hole Plugs 1042.16

Note 1. Cast-in-place concrete end sections shall be Class SI, except the 14 day mix design shall have a compressive strength of 5000 psi (34,500 kPa) or a flexural strength of (800 psi) 5500 kPa and a minimum cement factor of 6.65 cwt/cu yd (395 kg/cu m).

Note 2. Precast concrete end sections shall be according to Articles 1042.02 and 1042.03(b)(c)(d)(e) of the Standard Specifications. The concrete shall be Class PC according to Section 1020, and shall have a minimum compressive strength of 5000 psi (34,000 kPa) at 28 days.

Joints between precast sections shall be produced with reinforced tongue and groove ends according to the requirements of ASTM C 1577.

Note 3. The granular bedding placed below a precast concrete end section shall be gradation CA 7, CA 11 or CA 18.

Note 4. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.

Note 5. The anchor rods for the culvert ties shall be according to the requirements of ASTM F 1554, Grade 105 (Grade 725).

**CONSTRUCTION REQUIREMENTS**

The concrete end sections may be precast or cast-in-place construction. Toe walls shall be either precast or cast-in-place, and shall be in proper position and backfilled according to the applicable paragraphs of Article 502.10 of the Standard Specifications prior to the installation of the concrete end sections. If soil conditions permit, cast-in-place toe walls may be poured directly against the soil. When poured directly against the soil, the clear cover of the sides and bottom of the toe wall shall be increased to 3 in. (75 mm) by increasing the thickness of the toe wall.

(a) Cast-In-Place Concrete End Sections. Cast-in-place concrete end sections shall be constructed according to the requirements of Section 503 of the Standard Specifications and as shown on the plans.

(b) Precast Concrete End Sections. When the concrete end sections will be precast, shop drawings detailing the slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval.

The excavation and backfilling for precast concrete end sections shall be according to the requirements of Section 502 of the Standard Specifications, except a layer of granular bedding at least 6 in. (150 mm) in thickness shall be placed below the elevation of the bottom of the end section. The granular bedding shall extend a minimum of 2 ft (600 mm) beyond each side of the end section.

Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 2/3 turn on one of the nuts. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut.

When individual, precast end sections are placed side-by-side for a multi-cell culvert installation, a 3 in. (75 mm) space shall be left between adjacent end section walls and the space(s) filled with Class SI concrete.

Method of Measurement. This work will be measured for payment as each, with each end of each culvert being one each.

Basis of Payment. This work will be paid for at the contract unit price per each for BOX CULVERT END SECTIONS of the culvert number specified.

(No. 38) (Code #Z00566\_\_\_)

**NOTE: See District Std. 32.1 for usage**

# **STORM SEWER WATER MAIN REQUIREMENT**

Effective: June 12, 1997

Description: This work shall consist of furnishing and installing water main quality pipe at the locations shown on the plans.

Materials:

a) Ductile iron water main Class 52

Joints for Ductile Iron pipe shall be:

1. Mechanical Joints - AWWA C111 and C600

2. Push‑On‑Joints - AWWA C111 and C600

b) Polyvinyl Chloride (PVC) Class 12454B (PVC 1120) or

Class 12454C (PVC 1220).

Schedule 40 is required for 8" diameter and schedule 80 for larger sizes.

CONSTRUCTION REQUIREMENTS

The storm sewer water main shall be installed according to the applicable portions of Section 550 and 561 of the Standard Specifications and the Standard Specifications for Water and Sewer Main Construction. In case of conflict between the Standard Specifications, the Standard Specifications for Water and Sewer Main Construction in Illinois shall take precedence and shall govern.

No testing or disinfections of the newly laid storm sewer water main will be required. A water‑tight connection is required between the storm sewer water main and the storm sewer.

Method of Measurement: Storm sewer water main of the various diameters will be measured for payment in feet, measured in place.

Basis of Payment: This work will be paid for at the contract unit price per Foot for STORM SEWER WATER MAIN REQUIREMENT, of the diameter specified.

(No. 39) (Code #550A\_\_\_\_\_\_ or 550B\_\_\_\_\_\_ of the type and size needed)

**NOTE: This is to be used where storm sewer and water main cross. When water main and storm sewer are parallel and within 10’ of each other use Storm Sewer Water Main Requirement.**

# **STORM SEWER, RUBBER GASKET**

Effective: April 5, 2005

This item is included to satisfy the EPA requirements for horizontal and vertical separation of storm sewer and water mains or water service lines outlined in Section 41 of the Standard Specifications for Water and Sewer Main Construction in Illinois.

Storm Sewer, Rubber Gasket is to be used at locations where the water main or water service line crosses below the storm sewer, regardless of vertical separation, or where the bottom of the water main or water service line is less than 18” above the top of the storm sewer.

This work shall consist of constructing storm sewers of the required inside diameter with the necessary fittings in accordance with Section 550 of the Standard Specifications and the following additions or exceptions.

At locations shown on the plans, the contractor shall furnish and install a reinforced concrete pipe of the size, class and type indicated with rubber gasket joints which conforms to ASTM Specification C-361.

The joint shall be approved by the Illinois Environmental Protection Agency for storm sewer lines crossing above water mains.

This work will be measured and paid for at the contract unit price per Foot for STORM SEWER, RUBBER GASKET of the type and size indicated.

(No. 40) (Code #67201 \_ \_ \_ )

# **sealing abandoned WELlS**

Effective: October 23, 2000 Revised: December 29, 2015

Revise the second sentence of the second paragraph in Article 672.02 to read:

“Unless otherwise noted, monitoring wells are assumed to be 2-4 inch in diameter and a maximum of 25 feet deep.”

(No. 41) (Code Z0023600)

**NOTE: Give a station, description, and size of culvert length. If a portion of the structure needs to be removed for ditching, add provision and pay item for Removal of Existing Structures.**

# **FILLING EXISTING CULVERTS**

Effective: April 7, 1999

This work shall be done in accordance with the applicable portions of Section 605 of the Standard Specifications and as shown in the plans and shall include all labor, materials, and equipment required to completely fill the culvert.

|  |  |
| --- | --- |
| Station | Description |
|  |  |
|  |  |
|  |  |

The cavity should be filled with as much sand as practical with the remaining voids to be filled with a grout capable of being pumped under pressure.

The grout shall consist of a minimum of one part of cement to eight parts of sand with a slump suitable for pumping. The cement factor may be increased to improve pumping characteristics.

The Contractor will not be allowed to cut through the pavement to provide an opening for filling operations.

This work will be paid for at the contract unit price per Each for FILLING EXISTING CULVERTS.

# (No. 42) (Code #X4402805)

# **ISLAND REMOVAL**

Effective: October 10, 2006

This work shall consist of the removal and disposal of the islands as shown on the plans. This work shall be done in accordance with applicable portions of Section 440 of the Standard Specifications and shall include the removal of the concrete island surface, concrete curb & gutter, and excavation below the concrete to a depth of the bottom of the adjacent concrete pavement.

This work will be paid for at the contract unit price per Square Foot for ISLAND REMOVAL.

(No. 43)

**NOTE: Use this with highway standards 701316, 701321, 701331, 701402, 701416, 701423, 701431, 701502, 701601, 701602, 701606 & 701701. Use pay items 70300220 Temporary Pavement Marking Line 4” & 70300280 Temporary Pavement Marking Line 24”. We will still use tape for short term pavement marking unless it is on a milled surface, then it has to be paint. The tape does not have to be removed by a water blaster.**

# **WORK ZONE PAVEMENT MARKING AND REMOVAL**

Effective: December 29, 2008 Revised: October 5, 2021

This work shall consist of installing and removing temporary pavement marking according to Section 703 and 783 of the Standard Specifications and the following:

All temporary paint on the final wearing surface shall be removed according to Article 1101.12 Water Blaster with Vacuum Recovery and the applicable portions of Section 783 of the Standard Specifications and as described herein.

Add the following paragraph to Article 1101.12 of the Standard Specifications.

“For the high pressure water spray, the pressure at the nozzle shall be approximately 25,000 psi with maximum flow rate of 15 gal/min. The nozzle shall be in close proximity to the pavement surface.”

(No. 44) (Code X5510100)

**NOTE: This is intended for very small quantities of small sewer pipe. Most jobs will use the pay items in Section 551 of the Standard Specifications.**

# **STORM SEWER REMOVAL**

Effective: September 6, 2002 Revised: December 29, 2015

Description. The existing storm sewer marked for removal shall be removed according to Section 551 of the Standard Specifications. All storm sewer marked for removal is 24” in diameter or less.

Method of Measurement. Storm sewer removal of the various diameter will be measured for payment in feet, measured as removed.

Basis of Payment. Storm sewer removal will be paid for at the contract unit price per Foot for STORM SEWER REMOVAL, which includes the trench backfill.

(No. 45) (Code #X7010805)

**NOTE: This provision should be used for removing or setting bridge beams on bridges over Interstates or 4-lane highways. Add the Interstate or 4-lane highway route in the provision. The nighttime hours specified can be changed for your exact location and ADT. Also, add the name and phone number of the Maintenance Field Engineer if it applies.**

# **TRAFFIC CONTROL AND PROTECTION, STANDARD 701401 (SPECIAL)**

Effective: December 18, 2007 Revised: March 13, 2012

This work consists of setting up traffic control in accordance with Section 701 of the Standard Specification for the purpose of removing or setting bridge beams.

Two lanes in each direction of travel on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ may be closed up to twenty (20) minutes to remove or set bridge beams. This shall be done by closing one lane in each direction according to Standards 701400 and 701401. The second lane shall be closed by flaggers for up to a twenty (20) minute period. At the end of the twenty minute period, the second lane shall be opened to traffic and all queued traffic shall be cleared prior to closing the second lane again.

This work shall be completed during nighttime hours, 9:00 PM Monday to 6:00 AM Friday (9:00 PM to 6:00 AM daily). Traffic control set up shall not begin prior to 9 p.m. on any day and shall be completely removed by 6:00 AM the following morning. No lane closures shall be allowed on Friday, Saturday, and Sunday evenings. During legal holidays, section 107 of the Standard Specifications shall apply.

Traffic control devices shall be removed from the traffic lane and all lanes shall be opened to traffic thirty (30) minutes after bridge beam removal and/or setting operations cease, or defined by work restriction hours, which ever comes first.

The Contractor shall contact the Maintenance Field Engineer, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at Ph. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ one week before any closure on \_\_\_\_\_\_\_\_\_\_\_\_\_ so that messages can be put on the permanent message overhead message boards.

One additional portable changeable message board will be required for each direction of travel affected during all nightly closures.

The barricades shown in Standard 701401 shall not encroach on the lane open to live traffic at any time.

The Contractor shall be liable if they fail to completely open and keep open all traffic lanes on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in accordance with the limitations specified. The Contractor shall be liable to the Department in the amount of $500 for each lane blocked as a monetary deduction damages for each and every fifteen (15) minute interval, or portion thereof, that a lane is blocked outside the allowable time limitations. Such deduction may be deducted by the Department from any monies due to the Contractor. These deductions shall apply during the contract time and during any extensions of the contract time.

This work shall be paid for at the contract unit price per Lump Sum for TRAFFIC CONTROL AND PROTECTION, STANDARD 701401 (SPECIAL).

(No. 46) (Code X0324380)

**NOTE: Use this for replacement of Winnebago lids where the front edge is deteriorated and the reinforcement is exposed. Also note this provision specifies an Inlet Special No. 5. You could have an Inlet Special No. 3, 4, or 6 on your project.**

# **REMOVE AND REPLACE LID**

Effective: January 22, 2009

This work will consist of removing the existing concrete inlet lid and replacing it with a new one at the locations shown on the plans. The lids shall conform to the details for Inlet Special No. 5, Nose Type for Inlet Top Slab, and Inlet Special Reinforcement Detail. It will be the Contractor’s responsibility to verify the dimensions before constructing the lid. This work shall also include replacement of any disturbed sod, hot-mix asphalt, or concrete adjacent to the lid.

This work shall be paid for at the contract unit price per Each for REMOVE AND REPLACE LID.

(No. 47) (Code #X0327064 for 24” diameter & X0325537 for 30” diameter)

**NOTE: This is another option for an automatic flap gate instead of using Dist. Std. 73.2**

# **ELASTOMERIC CHECK VALVE**

Effective: October 26, 2010

Description: This work shall consist of selecting, furnishing and installing elastomeric “duck-bill” check valves for connection to the outlet ends of the storm sewer pipes or pipe culverts.

General: The selection and coordination of the connection of the elastomeric check valve to the reinforced concrete pipe shall include the allowance for proper clearance in the end section. The elastomer for the check valve shall provide effective service within a temperature range of ‑40 degrees F to +130 degrees F. The elastomer material shall resist stretching and tearing. The preferred connection is a slip-on connection directly to the pipe. Flanged connections to the end section will be allowed, provided a means to prevent leakage between the pipe and the end section is incorporated into the assembly. The materials to connect the check valve to the pipe assembly, including any of the aforementioned materials to prevent leakage between the end section and the pipe, shall be considered included in the cost of this pay item. The elastomeric check valve shall open with a minimum hydraulic head of 2 inches. The check valve shall seal tight around debris that may become trapped in the valve opening. The check valve shall resist permanent deformation of the valve due to back pressures up to 10 pounds per square inch.

Acceptable manufacturers are General Rubber Corporation and Red Valve Company (i.e. Tideflex). Other manufacturers will be accepted upon condition the selected valve conforms to these specifications. Manufacturer’s data for the proposed check valve shall be submitted to the Department for review and approval prior to installation.

Method of Measurement: Elastomeric check valves will be measured in place per each of the size specified.

Basis of Payment: This work shall be paid for at the contract unit price per Each for ELASTOMERIC CHECK VALVE of the diameter specified.

(No. 48)

**NOTE: Fill in provision and modify if needed for your job.**

# **removal of existing structures**

Effective: July 28, 2014

This work shall be done in accordance with Section 501 of the Standard Specifications. The work shall consist of removing and disposing of existing box culverts or portions of existing box culverts and other items as specified. Removal of existing drop boxes shall be included in the cost of Removal of Existing Structure for that location.

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This work shall be paid for at the contract unit price per Each for REMOVAL OF EXISTING STRUCTURES of the number specified.

(No. 49)

**JOINT TRIMMING**

**Effective: March 6, 2023**

The following is the sequence for milling and paving:

1. If specified in the contract, mill both lanes and shoulders for the entire project.
2. Place the HMA binder on both driving lanes and shoulders for the entire project.
3. On the first lane to be paved, place the tack coat and new HMA surface course 6 in. wider than the joint to be trimmed.
4. After surfacing the first driving lane and prior to cleaning and start of surfacing on the following lane or shoulder, mill off the extra 6 in. of new HMA surface to the joint location, per the typical sections. The milling equipment must be capable of producing a straight line. The depth of the milling must be controlled so as not to gouge the underlying binder lift. The intent is to create a vertical face at the joint and provide lateral confinement for the following surface course material. Skid steer mounted mills will not be allowed.
5. Clean and prepare the surface of the remaining shoulder or lane for HMA placement as per Article 406.05 of the Standard Specifications. The tack coat shall be sprayed the full width of the HMA shoulder or lane and also lapped onto the newly trimmed joint a distance not to exceed 4 in. This additional width is to ensure the vertical face of the adjacent mat is adequately covered with tack coat.
6. Placement of surface course at the trimmed joint shall require the compacted height of HMA to be exactly flush, or not more than 1/32 in. higher, than the adjacent lane to ensure the joint has sufficient material for adequate compaction and proper drainage. During placement, the side plate of the screed shall not exceed 1/2 in. overlap onto the adjacent lane.

The milling of new HMA 6 in. extra width at the joint to be trimmed will be paid for at the contract unit price per square yard for HOT-MIX ASPHALT SURFACE REMOVAL – LONGITUDINAL JOINT.

The additional tack coat will be paid for at the contract unit price per pound of residual asphalt for BITUMINOUS MATERIAL (TACK COAT) or POLYMERIZED BITUMINOUS MATERIAL (TACK COAT).

The additional HMA surface course will be paid for at the contract unit price per ton for HOT-MIX ASPHALT SURFACE COURSE, of the friction aggregate mixture and Ndesign specified or POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, of the friction aggregate mixture and Ndesign specified. All other extra work will not be paid for separately but shall be included in the unit bid price of the various pay items and no other compensation will be allowed.

(No. 50)

**Designer note:  Use this provision for any type of PCC foundations.**

**CONCRETE FOUNDATIONS**

Effective:  April 1, 2019

All drilled foundations listed under Class SI concrete in Table 1 of Article 1020.04 shall use Drilled Shaft (DS) concrete mix in lieu of Class SI concrete meeting the requirements of Section 1020 of the Standard Specifications.

(No. 53) (Code No: X0320050)

**DESIGNER NOTE: Ask the Construction Engineer if this should be included—it should go on large projects only. This is to be used in addition to Recurring Special Provision #9, Construction Layout Stakes.**

**CONSTRUCTION LAYOUT SPECIAL UTILIZING GPS EQUIPMENT**

Effective: April 1, 2017

If the Contractor opts to utilize GPS equipment for Construction Layout, the Contractor shall be required to complete the following in addition to the requirements of the Recurring Special Provision Check Sheet #9 of the Standard Specifications and as directed by the Engineer.

1. Submit 3D drawings or show the Engineer the digital terrain model (or proof of some type) that the Contractor has generated all proposed information correctly for all parts of the job (mainline, ramps, side roads, entrances, etc.) before starting any grading, structures or paving work. This does not relieve the Contractor of responsibility of any possible errors made in the modeling.
2. The Contractor shall also submit a written QC/QA plan that they must follow to provide quality control on the actual layout and quality assurance checks of the layout during and after construction. This shall be submitted prior to the start of construction and shall meet the approval of the Engineer.
3. The Engineer may perform spot checks of the machine control grading results, surveying calculations, records, field procedures, and actual staking. If the Engineer determines the work is not being performed in a manner that will provide accurate results, the Engineer may order such work to be redone, to the requirements of the contract documents, at no additional cost to the Department.
4. The Contractor shall check and recalibrate their GPS rover system as needed.
5. The Contractor shall establish secondary control points at appropriate intervals and at locations along the length of the project and outside the project limits and/or where work is performed beyond the project limits as required at intervals not to exceed 1000 feet (300 m). Determine the horizontal position of these points using static GPS sessions or by traverse connection from the original baseline control points. Establish the elevation of these control points using differential leveling from the project benchmarks, forming closed loops. Provide a copy of all new control point information to the Engineer prior to construction activities. The Contractor is responsible for all errors resulting from their efforts. Correct all deficiencies to the satisfaction of the Engineer at no additional cost to the Department.
6. The Contractor shall preserve all reference points and monuments that are established by the Engineer within the project limits. Any reference points that have not been preserved shall be reestablished at no additional cost to the Department.

Construction Layout Equipment

General. The Contractor shall furnish articles of survey equipment to be used by the Department for independent monitoring and verification of construction layout stakes, reference points, and any other horizontal and vertical control set by the Contractor. All equipment will be for the exclusive use of the Department throughout the duration of the contract and will be returned to the Contractor at the end of the contract.

Equipment. The equipment to be furnished by the Contractor shall consist of one precision GNSS rover and a secondary GPS handheld controller. The precision GNSS rover must meet or exceed the capabilities of, and be compatible with the Contractor’s equipment and meet the approval of the Engineer. The secondary GPS handheld controller shall also meet or exceed the capabilities of, and be compatible with the Contractor’s equipment and meet the approval of the Engineer. The equipment provided shall include all software, data and any additional equipment (base station, repeaters, etc.) necessary to find any point on the project in station, offset and elevation with precision. The Contractor will be required to supply the Department Windows-based software capable of downloading project data from the GPS handheld controller. The project data included in the equipment will be consistent with the data used by the Contractor for layout and grading. Any data revisions or software updates to the Contractor’s equipment will also be applied to the Department’s equipment by the Contractor.

The Contractor will be responsible for providing training for three members of the Department’s staff on use of the equipment and software. The Contractor shall provide one person to the Engineer who will be able to answer any questions and offer any necessary technical support at any point of the project.

Basis of Payment. This work will be paid for at the contract lump sum price for CONSTRUCTION LAYOUT (SPECIAL). If the Contractor elects not to utilize GPS equipment for the use of construction layout, this will not be paid for.

(No. 52)

**Designer Notes: Culvert & Bridge Projects will either need a physical 404 Permit or this Special Provision. Consult with the District Hydraulics unit 90 days prior to submittal for a determination.**

**SECTION 404 – NATIONWIDE PERMIT #14 (Non-reporting)**

Effective: February 25, 2022 Revised: April 21, 2023

An United States Army Corps of Engineers (USACOE) Section 404 - Nationwide Permit #14 has not been procured for this project because it’s considered as “Non-Reporting” because the following conditions are being met:

1. The loss of Waters of the United States does not exceed 1/10th acre; and
2. There are no discharges into a special aquatic site, including wetlands.

The requirements/ conditions of the Nationwide Permit #14 must still be adhered to and can be found at the following link: [2021 Nationwide Permit 14 - Final Decision Document (oclc.org)](https://usace.contentdm.oclc.org/utils/getfile/collection/p16021coll7/id/19778)

In the event that these conditions are not being met, it will be necessary to submit a pre-construction notification to the USACOE.

No additional payment shall be made for this work.

This Special Provision (Nationwide Permit) expires on March 14, 2026 per [Federal Register :: Reissuance and Modification of Nationwide Permits](https://www.federalregister.gov/documents/2021/12/27/2021-27441/reissuance-and-modification-of-nationwide-permits)

(No. 53)

**Designer Note:**

**Include in all plans which have electronic files.**

**AVAILABILITY OF ELECTRONIC FILES**

Effective 10/16 Revised 1/29/25

Electronic files of this project will be made available to the Contractor after the contract has been awarded. This information will be provided upon request in a Bentley CONNECT Platform software format ONLY. If data is required in other formats, it will be your responsibility to make these conversions. The Contractor shall coordinate obtaining electronic files through the Project Engineer. If there is a conflict between the electronic files and the printed contract plans and documents, the printed contract plans and documents shall take precedence over the electronic files. The Contractor shall accept all riskassociated with using the electronic files and shall hold the Department harmless for any errors or omissions in the electronic files and the data contained therein. Errors or delays resulting from the use of the electronic files by the Contractor shall not result in an extension of time for any interim or final completion date or shall not be considered cause for additional compensation. The Contractor shall not use, share, or distribute these electronic files except for the purpose of constructing this contract. Any claims by third parties due to use or errors shall be the sole responsibility of the Contractor. The Contractor shall include this disclaimer with the transfer of these electronic files to any other parties and shall include appropriate language binding them to similar responsibilities.

(No. 54)

**NOTE: Include in all projects that require grooving for LETTERS AND SYMBOLS.  If you have a project that requires grooving ONLY for pavement marking “lines”, then this SP is not required.**

**GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS**

This work shall be completed per Article 780.05, except that the grooving for letters and symbols shall be as close to the shape of the letter or symbol as possible, being a minimum of ½ inch wider on all sides. Excessive boxing out for the letter or symbol shall not be allowed.

This work shall be paid for at the contract unit price per SQ FT from the table below for GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS.

Grooving Area Chart (Symbols)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SYMBOLS** | | | | |
|
| Symbol | Pavement Marking Large Size (SF) | Grooving (SF) | Pavement Marking Small Size (SF) | Grooving (SF) |
|
| Through Arrow | 11.5 | 12.6 | 6.5 | 7.3 |
| Left or Right Arrow | 15.6 | 16.8 | 8.8 | 9.8 |
| 2 Arrow Combination Left (or Right) and Through | 26.0 | 28.2 | 14.7 | 16.2 |
| 3 Arrow Combination Left, Right, and Through | 38.4 | 41.3 | 20.9 | 23.0 |
| Lane Drop Arrow | 41.5 | 43.5 | -- | -- |
| Wrong Way Arrow | 24.3 | 27.3 | -- | -- |
| Railroad "R" 6ft (1.8m) | 3.6 | 5.3 | -- | -- |
| Railroad "X" 20ft (6.1m) | 54.0 | 57.5 | -- | -- |
| International Symbol of Accessibility | 3.1 | 4.0 | -- | -- |
| Bike Symbol | 4.7 | 12.3 | -- | -- |
| Shared Lane Symbol | 8.0 | 16.7 | -- | -- |

(No. 55)

**Designer Note: Include in all resurfacing contracts with a milling thickness greater than 1 ½” and/or resurfacing thickness greater than 2”.**

**MAXIMUM DROP-OFFS BETWEEN ADJACENT LANES**

(Effective April 21, 2023)

When the Contractor’s operations cause a difference in elevation greater than 1.5 in. (38 mm) for a vertical milled face or 2 in. (50 mm) for a lift of HMA resurfacing between adjacent lanes, the lane shall remain closed. The Contractor shall adjust his milling and paving operations so that all traffic lanes are open at the end of each work day.

To meet the above requirement, the Contractor shall:

Place the binder lift immediately following the milling operation before opening the lane to traffic or

Place a temporary wedge after the milling operations (minimum 1V:3H slope) or

Mill a sloped wedge between lanes (minimum 1V:3H slope).

When the difference in elevation between adjacent open traffic lanes is greater than 1 in. (25 mm) and less than or equal to 1.5 in. (38 mm) for a vertical milled face or 2 in. (50 mm) for an HMA lift, “UNEVEN LANES” signs (W8-11(FO)) shall be erected at 1-mile (1.6 km) intervals.

The above requirements were developed based on IDOT Safety Engineering Policy Memorandum 4-21. Any changes to the proposed lift thicknesses, milling depths, or sequence of operations that change drop-offs at the centerline or edge of pavement must follow this policy and be approved by the Engineer.

This work will not be paid for separately but shall be included in the cost of the applicable HMA surface removal pay items.

(No. 56)

**DESIGNER NOTE: Include in tree removal contracts.**

**COMPLETION DATE PLUS WORKING DAYS (TREE REMOVAL)**

Revise Article 108.05(b) of the Standard Specifications to read:

“(b) Completion Date Plus Working Days.  When a completion date plus working days is specified, the Contractor shall complete all contract items to safely open all roadways to traffic by 11:59 p.m. on or prior to ( **), March 31, ( )**, except as specified herein.

The Contractor will be allowed   working days after the completion date to complete clean-up work and punch list items, which includes removing felled trees and stump grinding.  Miscellaneous items may be completed within the working days allowed for clean-up work and punch list items if approved by the Engineer.

All trees or saplings must be felled between the dates of October 1,**( )** and March 31,**( )** , and no exceptions will be allowed.

(No. 57)

**DESIGNER NOTE: Include in tree removal contracts when proposed row and temporary or permanent easement has not all been acquired prior to plan submittal. Please check with landaq on status of every parcel in question and provide information in table as shown below.**

**AVAILABILITY OF RIGHT-OF-WAY / TEMPORARY EASEMENT**

The Contractor shall be aware that there are property parcels for which Proposed ROW/TE have not yet been acquired at the time of this contract Letting

* Contractor shall NOT perform any type of TREE REMOVAL or CLEARING (SPECIAL) on any parcels for which Right of Way/Temporary Easement has NOT yet been acquired.
* Contractor shall be aware that IF additional parcels are acquired after the Letting, then the TREE REMOVAL and/or CLEARING (SPECIAL) shall be included for these parcels.

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| --- | --- | --- | --- | --- | --- |
| **Parcel Number** | **ROW/TE Status** | **Offset** | **Station** | **to** | **Station** |
|  |  |  |  |  |  |

(No. 58) (Pay Item # X2010505)

**DESIGNER NOTE: Include when there is NO earth excavation pay item in the plans. This provision will typically be used on a tree removal only contract.**

**CLEARING (SPECIAL)**

This work shall be performed in accordance with Sections 201 and 202 of the Standard Specifications, and as specified in the Plans and Specifications.

This work shall include all labor, material, and equipment necessary to remove and dispose of all Shrubs, Bushes and Saplings ranging in diameter from 3” to Less Than 6”, within the construction limits and that will be impacted by the project.

Construction Requirements:

Locations for CLEARING (SPECIAL) shall be designated and clearly marked by the Contractor for Engineer review and approval, at least 2 weeks prior to start of any removal activities.  Contractor shall not begin removals until the Engineer approves of the CLEARING (SPECIAL) locations identified by the Contractor.

The CLEARING (SPECIAL) removals shall adhere strictly to the tree removal restriction/ commitment, and can only be cleared from October 1 thru March 31.

Any earth displaced by the tree removal shall be used to fill in the resulting hole, and such displaced earth shall not be taken off the project site.

Method of Measurement:

Removal of individual Shrubs, Bushes and Saplings ranging in diameter from 3” to Less Than 6”, will not be measured for payment individually, but shall be included in the LUMP SUM measurement for CLEARING (SPECIAL).

Any additional brush clearing activities required to access the CLEARING (SPECIAL) locations shall not be measured for payment separately but shall be considered included in the cost of CLEARING (SPECIAL).

Basis of Payment:

This work shall be paid for at the contract unit price per LUMP SUM for CLEARING (SPECIAL).

(No. 59)

**Designer Note:**

**Include in all projects that have sufficient earthwork or work items that a contractor would obtain a 3D model (including bridge projects)**

# **3D MODEL – CONTRACTOR SUPPLIED**

Effective 1/29/25

If the Contractor develops a 3D model of the project site, then it shall be provided to the Resident Engineer. 3D models developed by the Contractor shall be provided to the Resident Engineer at no additional cost to the Department.