



Illinois Department of Transportation

Local Public Agency Material Proposal or Deliver & Install Proposal

PROPOSAL SUBMITTED BY		
Contractor's Name		
Street	P.O. Box	
City	State	Zip Code

STATE OF ILLINOIS

COUNTY OF LAKE

(Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE NO. Various County Highways - Patrol 1 Maintenance

SECTION NO. 17-00000-00-GM

TYPES OF FUNDS MFT

- MATERIAL PROPOSAL
- SPECIFICATIONS (required)

- DELIVER & INSTALL PROPOSAL
- PLANS (if applicable)

**For Municipal Projects**

Submitted/Approved/Passed  
**Not Applicable**

Mayor  President of Board of Trustees  Municipal Official

Date

**Department of Transportation**

Released for bid based on limited review

*Paula Trigg*  
Regional Engineer

County Engineer on behalf of IDOT pursuant to  
Agreement of Understanding dated January 18, 2013

*8/26/16*  
Date

**For County and Road District Projects**

Submitted/Approved  
**Not Applicable**

Highway Commissioner

Date

Submitted/Approved  
*Paula Trigg*  
County Engineer/Superintendent of Highways

*8/26/16*  
Date

Note: All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed.

RETURN WITH BID

NOTICE TO BIDDERS

County Lake
Local Public Agency LCDOT
Section Number 17-00000-00-GM
Route Various County Highways

Sealed proposals for the furnishing or delivering & installing materials required in the construction/maintenance of the above Section will be received and at that time publicly opened and read at the office of The County Engineer of Lake County

600 West Winchester Road, Libertyville, Illinois 60048 until 10:00 A.M. on September 27, 2016
Address Time Date

- 1. Plans and proposal forms will be available online at http://www.lakecountyiil.gov/648/Bids---Roadwork or at the office of the Lake County Division of Transportation, 600 West Winchester Road, Libertyville, IL 60048
2. Prequalification. If checked, each bidder shall include a completed "Affidavit of Availability" (Form BC 57), in their proposal, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work.
3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Material Proposals.
4. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Material Proposals, will be required. Bid Bonds will be allowed as a proposal guaranty.
5. The successful bidder at the time of execution of the contract will be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. Failure on the part of the contractor to deliver the material within the time specified or to do the work specified herein will be considered just cause to forfeit his surety as provided in Article 108.10 of the Standard Specifications.
6. Proposals shall be submitted on forms furnished by the Awarding Authority and shall be enclosed in an envelope endorsed "Material Proposal, Section17-00000-00-GM".

By Order of County Board of Lake County 8/26/2016 Paula J Trigg, County Engineer
(Awarding Authority) Date (County Engineer/Superintendent of Highways/Municipal Clerk)

Material Proposal or Deliver & Install Proposal

To County Board of Lake County
(Awarding Authority)

If this bid is accepted within 45 days from date of opening, the undersigned agrees to furnish or to deliver & install any or all of the materials, at the quoted unit prices, subject to the following:

- 1. It is understood and agreed that the "Standard Specifications for Road and Bridge Construction", adopted April 1, 2016, and the "Supplemental Specifications and Recurring Special Provisions", adopted April 1, 2016, prepared by the Department of Transportation, shall govern insofar as they may be applied and insofar as they do not conflict with the special provisions and supplemental specifications attached hereto.
2. It is understood that quantities listed are approximate only and that they may be increased or decreased as may be needed to properly complete the improvement within its present limits or extensions thereto, at the unit price stated and that bids will be compared on the basis of the total price bid for each group.
3. Delivery in total or partial shipments as ordered shall be made within the time specified in the special provisions or by the acceptance at the point and in the manner specified in the "Schedule of Prices". If delivery on the job site is specified, it shall mean any place or places on the road designated by the awarding authority or its authorized representative.
4. The contractor and/or local agency performing the actual material placement operations shall be responsible for providing work zone traffic control, unless otherwise specified in this proposal. Such devices shall meet the requirements of and be installed in accordance with applicable provisions of the "Illinois Manual on Uniform Traffic Control Devices" and any referenced Illinois Highway Standards.
5. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price. A bid will be declared unacceptable if neither a unit price nor a total price is shown.

Discounts will be allowed for payment as follows: % calendar days: % calendar days.

Discounts will not be considered in determining the low bidder.

Bidder

By (Signature)

Address

Title



Local Agency Proposal Bid Bond

Route Various County Highways
County LAKE
Local Agency LCDOT
Section 17-00000-00-GM

RETURN WITH BID

PAPER BID BOND

WE \_\_\_\_\_ as PRINCIPAL,
and \_\_\_\_\_ as SURETY,
are held jointly, severally and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of 5% of the total bid price, or for the amount specified in the proposal documents in effect on the date of invitation for bids whichever is the lesser sum. We bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly pay to the LA this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said PRINCIPAL is submitting a written proposal to the LA acting through its awarding authority for the construction of the work designated as the above section.

THEREFORE if the proposal is accepted and a contract awarded to the PRINCIPAL by the LA for the above designated section and the PRINCIPAL shall within fifteen (15) days after award enter into a formal contract, furnish surety guaranteeing the faithful performance of the work, and furnish evidence of the required insurance coverage, all as provided in the "Standard Specifications for Road and Bridge Construction" and applicable Supplemental Specifications, then this obligation shall become void; otherwise it shall remain in full force and effect.

IN THE EVENT the LA determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the LA acting through its awarding authority shall immediately be entitled to recover the full penal sum set out above, together with all court costs, all attorney fees, and any other expense of recovery.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this \_\_\_\_\_ day of \_\_\_\_\_

Principal

(Company Name) \_\_\_\_\_ (Company Name) \_\_\_\_\_
By: \_\_\_\_\_ By: \_\_\_\_\_
(Signature and Title) (Signature and Title)

(If PRINCIPLE is a joint venture of two or more contractors, the company names, and authorized signatures of each contractor must be affixed.)

Surety

(Name of Surety) \_\_\_\_\_ By: \_\_\_\_\_
(Signature of Attorney-in-Fact)

STATE OF ILLINOIS,
COUNTY OF \_\_\_\_\_
I, \_\_\_\_\_, a Notary Public in and for said county,
do hereby certify that \_\_\_\_\_

(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instruments as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this \_\_\_\_\_ day of \_\_\_\_\_

My commission expires \_\_\_\_\_ (Notary Public)

ELECTRONIC BID BOND

[ ] Electronic bid bond is allowed (box must be checked by LA if electronic bid bond is allowed)

The Principal may submit an electronic bid bond, in lieu of completing the above section of the Proposal Bid Bond Form. By providing an electronic bid bond ID code and signing below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the LA under the conditions of the bid bond as shown above. (If PRINCIPAL is a joint venture of two or more contractors, an electronic bid bond ID code, company/Bidder name title and date must be affixed for each contractor in the venture.)

Electronic Bid Bond ID Code grid

Electronic Bid Bond ID Code

\_\_\_\_\_  
(Company/Bidder Name)
\_\_\_\_\_  
(Signature and Title)
\_\_\_\_\_  
Date

**CONTRACTOR/  
SUPPLIER**

**PLEASE REPLACE  
THIS PAGE  
WITH YOUR  
COMPLETED  
LCDOT CBID  
PRINTOUT**

**SPECIAL PROVISION**

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## **NOTICE TO ALL BIDDERS**

**DO NOT** REMOVE ANY SHEETS\* SUPPLIED WITH THIS NOTICE:  
EACH SHEET IS A PART OF THE AGREEMENT BETWEEN THE  
BIDDER AND THE LAKE COUNTY DIVISION OF TRANSPORTATION.

PLEASE READ CAREFULLY **ALL** THE GENERAL SPECIAL  
PROVISIONS AND THE INDIVIDUAL GROUP SPECIAL PROVISIONS  
FOR ANY GROUP YOU SUBMIT A PROPOSAL ON.

\*Except replacing the CBID sheet with your printout.

## STATE OF ILLINOIS SPECIAL PROVISIONS

The following Special Provisions supplement the specifications listed in the table below, which apply to and govern the proposed improvement designated as Lake County Section **17-00000-00-GM**, and in case of conflict with any part or parts of said specifications, the said Special Provisions shall take precedence and govern.

SPECIFICATION	ADOPTED/DATED
Standard Specifications for Road and Bridge Construction	April 1, 2016
Manual on Uniform Traffic Control Devices for Streets and Highways Illinois Supplement	2009 Edition March 2010
Supplemental Specifications and Recurring Special Provisions (indicated on the Check Sheet included herein)	January 1, 2017
Standard Specifications for Water & Sewer Main Construction in Illinois	July 2009

**This Project Does Not Include a Separate Set of Plans.**

### LOCATION OF LCDOT FACILITY

The Lake County Facility is located at:

600 W. Winchester Road  
Libertyville, IL 60048  
Phone (847) 377-7498

### DESCRIPTION OF WORK

This work consists of supplying bituminous patching mixture (group II); hot-mix asphalt binder and surface materials; aggregate surface course material; limestone screenings; and trench backfill aggregate to be loaded into LCDOT trucks at the suppliers location. The work also includes supplying and delivering various sign materials – posts, reflective sheeting, and sign bases; preformed plastic pavement markings and pavement marking tape; calcium chloride and anti-icing/deicing fluid; plastic, reinforced concrete, and corrugated metal pipe; concrete structures; and cast iron frames, lids and grates, as described herein for the Lake County Division of Transportation, 2017 Patrol 1 Maintenance contract.

### LENGTH OF PROPOSAL

The unit prices bid on each group shall remain in effect from December 1, 2016 to November 30, 2017.

## DIVISION 100. GENERAL REQUIREMENTS AND COVENANTS

### SECTION 102 ADVERTISEMENT, BIDDING, AWARD AND CONTRACT EXECUTION (LCDOT)

In order to limit bid proposal math errors, all bids for this material submittal **shall** be submitted using the CBID spreadsheet. The Contractor/Supplier shall include in their bid proposal a hardcopy CBID printout. Proposals submitted without a hardcopy CBID printout will be rejected as nonresponsive and returned to the Contractor/Supplier unread. Proposals submitted with a handwritten schedule of items will be rejected as nonresponsive and returned to the Contractor unread. A maximum of five pay items may have legible pen and ink entries/revisions to the unit and extended prices on the CBID printout to accommodate last minute supplier and subcontractor quotes. A legible pen and ink entry/revision to the project total bid will also be allowed.

To decrease LCDOT bid processing time, Contractors/Suppliers bidding on Groups 9 and/or 10 shall include in their sealed bid envelope a CD with a copy of the completed CBID. The hardcopy CBID printout will serve as the bid submission, while the CD is only provided to aid in tabulating the bids. In the event that there is a difference between the hardcopy CBID printout and the electronic copy provided on the CD, the hardcopy CBID printout shall take precedence and be used to complete the bid tabulation.

**Shared Services:** Under the authority of 30 ILCS 525, the Governmental Joint Purchasing Act the unit prices included in the proposal may be offered to other governmental units according to the following:

*The purchase of goods and services pursuant to the terms of this Contract shall also be offered for purchases to be made by other governmental units, as authorized by the Governmental Joint Purchasing Act, 30 ILCS 525/0.01, et seq. (the "Act"). All purchases and payments made under the Act shall be made directly by and between each governmental unit and the successful bidder. The bidder agrees that Lake County shall not be responsible in any way for purchase orders or payments made by the other governmental units. The bidder further agrees that all terms and conditions of this Contract shall continue in full force and effect as to the other governmental units during extended terms. The credit or liability of each governmental unit shall remain separate and distinct. Disputes between bidders and governmental units shall be resolved between the immediate parties.*

*The bidder and the other governmental units may negotiate such other and further terms and conditions to this Contract ("Other Terms") as individual projects may require. To be effective, Other Terms shall be reduced to writing and signed by a duly authorized representative of both the successful bidder and the other governmental unit.*

*The bidder shall provide the other governmental units with all required documentation set forth in the solicitation including but not limited to: performance and payment bonds, Certificates of Insurance naming the respective governmental unit as an additional insured and certified payrolls to the other governmental unit as required.*

## **ARTICLE 107.27 INSURANCE**

The provisions of Article 107.27 of the “Standard Specifications” are not applicable to this proposal.

## **PREQUALIFICATION**

The provision of LRS7 requiring Bidder Prequalification is not applicable to this proposal. Bidders do not need to be prequalified with IDOT. Prospective bidders will need to submit a “Request for Authorization to Bid” form to the Lake County Division of Transportation and receive an “Authorization to Bid” response in order for their bid to be read at the bid opening.

## **PROPOSAL GUARANTY**

For the 2015 Patrol 1 Maintenance materials letting the proposal guaranty provision of LRS7 is not applicable for Bidders submitting unit prices for Groups 1 thru 6.

The proposal guaranty provision is applicable for Bidders submitting bids for Groups 7 thru 18. Bidders submitting bids for Groups 7 thru 18 will need to furnish a proposal guaranty – a bid bond, cashier’s check or properly certified check. Bidders submitting proposals on more than one group may combine the total amount bid and submit one bond or check covering the entire bid.

**MATERIAL GROUPS 1, 2, 3, 4, 5 & 6:**

**GENERAL**

Prospective bidders shall submit unit prices only, for groups 1, 2, 3, 4, 5 and 6, in their proposal. The prices quoted shall reflect the price for the material(s) loaded into LCDOT trucks at the bidder's pit or plant. No quantities are shown in the proposal. Prospective bidders shall also list the location of their bituminous/hot-mix asphalt plant(s) and/or aggregate pit(s) on the proposal. The County reserves the right to order only such quantities as they require from December 1, 2016 to November 30, 2017. Contract awards will be made to each bidder who submits a reasonable price.

When a material is required, an order will be placed with the previously awarded plant or pit whose bid price plus the estimated cost of hauling equals the lowest cost to the County based on the following formula.

$(\text{Bidders unit price} \times \text{tons ordered}) + (\text{haul distance} \times \$0.50 \times \text{tons ordered}) = \text{County Cost}$
---

The County's stand-by labor and rental cost at the destination point may also be considered. In unusual circumstances, for example if the plant with the lowest calculated cost is closed, the material will be ordered from plant/pit that is open with the next lowest calculated cost. A standard rate of \$0.50 per ton per mile will be used to calculate the lowest cost to the County.

**Certification and Inspection of Materials:**

1. All aggregates and mix formulas from groups 1, 2, 3, 4, 5 & 6 will be inspected and approved prior to their use.
2. The inspection and approval of the aggregates and mix formulas will be conducted by the Materials Department of the Lake County Division of Transportation.
3. All successful bidders shall give sufficient notice to the Materials Department to permit the tests to be conducted prior to the County placing a material(s) order.

## **GROUP 1: BITUMINOUS PATCHING MIXTURE (GROUP II)**

**Description:** This work shall consist of supplying Bituminous Patching Mixture (Group II).

**General:** The Bituminous Patching Mixture (Group II) shall meet the requirements of LR 442 Bituminous Patching Mixtures for Maintenance Use, issued by the Illinois Department of Transportation (revised June 1, 2007). *For LCDOT orders the allowable material shall be limited to Serial No. M-120-07: Bituminous Premix for Maintenance Use – Optimix, Sylcrete, UPM, QPR-2000, EZ Street, SMP – Proprietary Sources.*

**Method of Measurement:** Bituminous Patching Mixture (Group II) will be measured for payment in tons.

**Basis of Payment:** This work will be paid for at the contract unit price per ton for BITUMINOUS PATCHING MIXTURE (GROUP II).

## **GROUP 2: HOT-MIX ASPHALT BINDER COURSE**

**Description:** This work shall consist of supplying Hot-Mix Asphalt Binder Course, IL-19.0, N50 and Hot-Mix Asphalt Binder Course, IL-19.0, N70.

**General:** The Hot-Mix Asphalt Binder Course, IL-19.0, N50 and Hot-Mix Asphalt Binder Course, IL-19.0, N70, shall meet the requirements of Section 406 of the “Standard Specifications” and the IDOT BDE special provision for Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS) (revised April 1, 2014) included herein.

*The RAP percentage for the Hot-Mix Asphalt Binder Course, IL-19.0, N50 and Hot-Mix Asphalt Binder Course, IL-19.0, N70, shall be limited to 15%.*

**Method of Measurement:** Hot-Mix Asphalt Binder Course, IL-19.0, N50 and Hot-Mix Asphalt Binder Course, IL-19.0, N70 will be measured for payment in tons.

**Basis of Payment:** This work will be paid for at the contract unit price per ton for HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 or HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70.

### **GROUP 3: HOT-MIX ASPHALT SURFACE COURSE**

**Description:** This work shall consist of supplying Hot-Mix Asphalt Surface Course, Mix “D”, N50 and Hot-Mix Asphalt Surface Course, Mix “D”, N70.

**General:** The Hot-Mix Asphalt Surface Course, Mix “D”, N50 and Hot-Mix Asphalt Surface Course, Mix “D”, N70, shall meet the requirements of Section 406 of the “Standard Specifications” and the IDOT BDE special provision for Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS) (revised April 1, 2014) included herein.

*The RAP percentage for the Hot-Mix Asphalt Surface Course, Mix “D”, N50 and Hot-Mix Asphalt Surface Course, Mix “D”, N70, shall be limited to 10% regardless of the size RAP used.*

**Method of Measurement:** Hot-Mix Asphalt Surface Course, Mix “D”, N50 and Hot-Mix Asphalt Surface Course, Mix “D”, N70 will be measured for payment in tons.

**Basis of Payment:** This work will be paid for at the contract unit price per ton for HOT-MIX ASPHALT SURFACE COURSE, MIX “D”, N50 or HOT-MIX ASPHALT SURFACE COURSE, MIX “D”, N70.

### **GROUP 4: AGGREGATE SURFACE COURSE, TYPE A [CA6]**

**Description:** This work shall consist of supplying and loading into LCDOT trucks, Aggregate Surface Course, Type A.

**Materials:** The aggregate shall meet the requirements of Article 1004.04 of the “Standard Specifications” except that:

*The material shall be limited to crushed gravel or crushed stone. The plasticity index requirements and the requirements for adding water at the central mixing plant will be waived. The gradation shall be limited to CA 6.*

**Method of Measurement:** Aggregate Surface Course, Type A will be measured for payment in tons.

**Basis of Payment:** This work will be paid for at the contract unit price per ton for AGGREGATE SURFACE COURSE, TYPE A. [CA6]

**GROUP 5: LIMESTONE SCREENINGS**

**Description:** This work shall consist of supplying Limestone Screenings.

**General:** The Limestone Screenings shall meet the requirements of Section 1003 of the “Standard Specifications” and the following:

*The material shall be limestone screenings, gradation FA 5, meeting the requirements of Article 1003.04 of the” Standard Specifications”. Additionally, any material deemed incompatible according to Article 1003.01(d) of the “Standard Specifications” will be rejected.*

**Method of Measurement:** Limestone Screenings will be measured for payment in tons.

**Basis of Payment:** This work will be paid for at the contract unit price per ton for LIMESTONE SCREENINGS.

**GROUP 6: TRENCH BACKFILL**

**Description:** This work shall consist of supplying and loading into LCDOT trucks, aggregate for Trench Backfill.

**Materials:** The aggregate shall be uncrushed, washed coarse aggregate, commonly referred to as “Washed #6 Stone”, meeting the requirements of Article 1004.01 of the “Standard Specifications” and the following gradation:

Sieve Size	Percent Passing
3/4”	100
1/2”	45 +/- 15
#4	0

**Method of Measurement:** Trench Backfill will be measured for payment in tons.

**Basis of Payment:** This work will be paid for at the contract unit price per ton for TRENCH BACKFILL.

**MATERIAL GROUPS 7, 8, 9, 10, 11 & 12:**

**GENERAL**

Prospective bidders shall submit Unit Prices, Total Prices (Quantity x Unit Price = Total Price) and a Total Bid Group Price (the sum of all the Total Prices for the group) for each group that he/she wishes to submit a proposal for. All items within a group must be bid for the proposal to be acceptable.

The quantities shown in the proposal are estimated maximum seasonal requirements. The County reserves the right to reduce or increase the quantities ordered to meet our seasonal needs as they develop. Any reduction or increase shall not, however, be used in such a manner as to reduce specified minimum quantities for one delivery.

The price quoted shall reflect the price for the material(s) delivered to the Lake County Division of Transportation Facility (County Yard) at 600 W. Winchester Road, Libertyville, IL 60048.

All required reports shall be submitted to:

County Engineer  
Lake County Division of Transportation  
Attn: Director of Maintenance  
600 W. Winchester Road  
Libertyville, IL 60048

**GROUP 7: DELINEATOR POSTS**

**Description:** This work shall consist of supplying and delivering Delineator Posts to the LCDOT yard.

**Materials:** The delineator posts shall meet the requirements of Article 1006.29 of the “Standard Specifications” and the following:

*The delineator posts shall be limited to U-shaped Galvanized Steel Delineator Posts, seven feet in length. The posts shall weigh 1.12 pounds per foot. The posts shall have a maximum of 30, 3/8" diameter holes spaced at one-inch center to center.*

**General:** Upon contract award the successful bidder shall furnish a certified report showing the test results of the cast and/or heat analysis and the chemical analysis for the posts. The report shall also include the purchase order number, ASTM designation number and the cast or heat number representing the material. The report shall be sent to the attention of the LCDOT Director of Maintenance.

When the delineator posts are delivered to the County Yard, LCDOT personnel will check the post galvanization, hole diameter, hole spacing, weight and length.

**NOTE:** All the Delineator Posts shall be delivered to the Lake County Yard on a **FLAT BED TRUCK** capable of being offloaded from the side by a forklift.

**Method of Measurement:** Delineator Posts will be measured for payment as each.

**Basis of Payment:** This work will be paid for at the contract unit price per each for DELINEATOR POSTS.

**Group 7 Schedule of Quantities:**

Item Description	Quantity	Unit
7' U-Shaped Galvanized Steel	1000.0	Each

## **GROUP 8: SIGN SUPPORT POSTS**

**Description:** This work shall consist of supplying and delivering Sign Support Posts for highway signs to the LCDOT yard.

### **Materials:**

The Sign Support Posts shall be limited to telescoping steel posts meeting the requirements of Article 1093.01(c) of the "Standard Specifications" and the following:

*The post shall be a square tube formed of **12-gauge** steel.*

*The holes 7/16" ± 1/64" will be spaced at one inch centers on **all sides** for the entire length of the posts. The holes shall be on the center line of each side of the post in a true alignment. The holes shall be opposite each other to accept a 3/8" bolt through the post at any location.*

*The finish shall be limited to triple coated protection by an in-line application of hot-dip galvanized zinc per AASHTO M 111 followed by a chromate polyurethane acrylic exterior coating. The inside surface shall be given erosion protection by in-line application of a full zinc base organic coating after fabrication, tested in accordance with ASTM B 117. If a weld process is performed after galvanizing, the weld shall be zinc-coated after the scarfing operation.*

**General:** Upon contract award the successful bidder shall furnish a certified report showing the test results of the cast and/or heat analysis and the chemical analysis for the posts. The report shall also include the purchase order number, ASTM designation number and the cast or heat number representing the material. The report shall be sent to the attention of the LCDOT Director of Maintenance.

When the sign support posts are delivered to the County Yard, LCDOT personnel will check the post galvanization, chromate conversion coating, cross-linked polyurethane acrylic exterior coating, hole diameter, hole spacing, wall thickness tolerance, weight and length. Any posts formed from other than 12-gauge steel will be rejected.

**NOTE:**

All deliveries **shall** be made within **30 Calendar Days** of receipt of an order placed by LCDOT. All the Telescoping Steel Sign Support Posts **shall** be delivered to the Lake County Yard on a **FLAT BED TRUCK** capable of being offloaded from the side by a forklift. A delivery arriving at the Lake County Yard after 1:00 pm **may not** be unloaded until the next working day.

**Method of Measurement:** The Sign Support Posts will be measured for payment as each.

**Basis of Payment:** This work will be paid for at the contract unit price per each for SIGN SUPPORT POSTS.

**Group 8 Schedule of Quantities:**

Item Description	Quantity	Unit
Sign Support Posts (12 Gauge Steel):		
2" X 2" X 9 FT.	300.0	Each
2" X 2" X 10 FT.	400.0	Each
2" X 2" X 11 FT.	400.0	Each
2" X 2" X 12 FT.	300.0	Each
2" X 2" X 13 FT.	300.0	Each
2 ¼" X 2 ¼" X 41"	1000.0	Each

**GROUP 9: SIGN MATERIALS**

**Description:** This work shall consist of supplying various sign materials, for making highway signs, and delivering them to the LCDOT yard.

**Materials:** The specific quantities and types of retroreflective sign sheeting designated by the American Society for Testing and Materials (ASTM) as Types I, III, IV, VII, VIII, IX and Proposed Type XI are listed in the Schedule of Quantities following the Basis of Payment Paragraph. All the materials for this group, regardless of ASTM Types, shall be produced by the same manufacturer. All inks and clears for the above materials, as recommended by the sheeting manufacturer, shall be included and supplied by the vendor at no additional cost to the Lake County Division of Transportation.

***Coefficient of Retroreflection:** The coefficients of retroreflection shall be determined according to ASTM Standard E-810. The coefficients of retroreflection shall meet or exceed the minimum requirements for the type and color sheeting as stated in ASTM Standard D4956.*

***Field Performance Requirements:** The sheeting processed and applied to sign blank materials according to the sheeting manufacturer’s recommendations shall perform effectively for the number of years shown in the table below. The retroreflective sheeting shall be considered unsatisfactory if it has deteriorated, due to natural causes, to the extent that: the sign is ineffective for its intended purpose when viewed from a moving vehicle under normal day and night conditions; or the coefficient of retroreflection is less than the minimum specified for that sheeting during the period listed below.*

<b>Warranty Life*</b>		
ASTM Sign Type	Percent of Coefficient of Retroreflection Values listed in ASTM Standard D4956	Warranty Period
Type I	50%	7 years
Type III	85%	7 years
	80%	10 years
Type IV	80%	7 years
	70 %	10 years
Type VII	80%	7 years
	70%	10 years
Type VIII	70%	7 years
Type IX	80%	7 years
	70%	12 years
Type XI	80%	7 years
	70%	12 years

*\* The Warranty period for all ASTM Type I, III, IV, VII, VIII, IX and Proposed Type XI signs used in construction work zones will be reduced to three (3) years of field use.*

*The failure of the process colors or the overlay films provided and/or sold for use on recommended sheeting will be considered a failure of the entire sign. The materials shall be replaced under the manufacturer's replacement obligations at no additional cost to the Lake County Division of Transportation.*

*For screen printed transparent colored areas or transparent colored overlay films on white sheeting, the coefficients of retroreflection shall not be less than 70% of the values for the corresponding integral color.*

*All measurements shall be made after sign cleaning according to the sheeting manufacturer's recommendations.*

*The sheeting manufacturer shall submit with their proposal, a certification statement on company letterhead, that the retroreflective sign sheeting meets or exceeds the requirements listed in ASTM Standard D4956 for Types I, III, IV, VII, VIII, IX and Proposed Type XI signs, that the material has been evaluated by National Transportation Product Evaluation Program (NTPEP), and that the material will meet or exceed the field performance requirements of this contract. The sign sheeting manufacturer shall also certify that they shall comply with the Sheeting Manufacturer's Replacement Obligation requirements below.*

***Sheeting Manufacturer's Replacement Obligation:** When the retroreflective traffic signs, with sheeting supplied and used according to the sheeting manufacturer's recommendation, do not meet the field performance requirements listed in the table above, the sheeting manufacturer shall cover all replacement costs, which shall include the retroreflective sign sheeting, sign blank, and sign installation, at no additional cost to the Lake County Division of Transportation.*

**General:** Upon contract award the successful bidder shall submit verification that the sign sheeting to be supplied to the County has met the appropriate requirements of ASTM Standard D4956. This requirement shall apply to any and all sign sheeting types to be supplied in this contract. The report shall be sent to the attention of the LCDOT Director of Maintenance.

<p><b>NOTE:</b> All deliveries <b>shall</b> be made within <b>30 Calendar Days</b> of receipt of an order placed by LCDOT.</p>
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**Method of Measurement:** The various Sign Materials will be measured for payment as each roll of the size and length specified or as each sheet of the length and width specified.

**Basis of Payment:** This work will be paid for at the contract unit price per each roll of the size and length specified or each sheet of the length and width specified for VARIOUS SIGN MATERIALS.

**Group 9 Schedule of Quantities:**

Item Description	Quantity	Unit
<b>Sign Materials (No ASTM#) Transparent Films (1170 Series) (Various Colors) Perforated for use in Electronic Cutting Apparatus (Gerber Punched)</b>		
15" X 50 YDS. (3M 1170S)	30.0	Rolls
18" X 50 YDS. (3M 1170NP)	6.0	Rolls
24" X 50 YDS. (3M 1170NP)	10.0	Rolls
30" X 50 YDS. (3M 1170NP)	10.0	Rolls
36" X 50 YDS. (3M 1170NP)	10.0	Rolls
48" X 50 YDS. (3M 1170NP)	2.0	Rolls
<b>Clear Transfer Tape (No ASTM#)</b>		
6" X 100 YDS. (3M TPM-5)	3.0	Rolls
9" X 100 YDS. (3M TPM-5)	3.0	Rolls
12" X 100 YDS. (3M TPM-5)	10.0	Rolls
18" X 100 YDS. (3M TPM-5)	10.0	Rolls
<b>Protective Overlay Film (No ASTM#) 3M 1150 or Equivalent</b>		
12" X 50 YDS. (3M 1150)	12.0	Rolls
36" X 50 YDS. (3M 1150)	4.0	Rolls
<b>3M 680 CR or Equivalent Vehicle Markings Flexible/Removable</b>		
1" X 50 YDS. (YELLOW) (3M 680CR-71)	5.0	Rolls
3" X 50 YDS. (YELLOW) (3M 680CR-71)	5.0	Rolls
1" X 50 YDS. (WHITE) (3M 680CR-10)	5.0	Rolls
3" X 50 YDS. (WHITE) (3M 680CR-10)	5.0	Rolls

**Group 9 Schedule of Quantities Continued:**

Item Description	Quantity	Unit
<b>3M 7780 CR or Equivalent Vehicle Markings Flexible/Removable (Various Colors) Perforated for use in Electronic Cutting Apparatus (Gerber Punched)</b>		
15" X 50 YDS. (3M 7780CR Series)	15.0	Rolls
<b>Vehicle Markings 3M IJ680CR or Equivalent</b>		
24" X 50 YDS. (3M IJ680CR)	3.0	Rolls
36" X 50 YDS. (3M IJ680CR)	3.0	Rolls
48" X 50 YDS. (3M IJ680CR)	2.0	Rolls

<b>Sign Materials – ASTM Type III &amp; Type IV Prismatic-Reflective Sheeting (Various Colors)</b>		
9" X 50 YDS. (3M 3930 Series)	3.0	Rolls
12" X 50 YDS. (3M 3930 Series)	5.0	Rolls
24" X 50 YDS. (3M 3930 Series)	5.0	Rolls
30" X 50 YDS. (3M 3930 Series)	6.0	Rolls
36" X 50 YDS. (3M 3930 Series)	6.0	Rolls
48" X 50 YDS. (3M 3930 Series)	1.0	Rolls
6" X 50 YDS. (3M 3930 Series)	1.0	Rolls
15" X 50 YDS. (3M 3930 Series)	3.0	Rolls
18" X 50 YDS. (3M 3930 Series)	6.0	Rolls
<b>Prestriped Barricade (Various Colors)</b>		
6" X 50 YDS. (3M 3334/3336)	1.0	Rolls
8" X 50 YDS. (3M 3334/3336)	1.0	Rolls
12" X 50 YDS. (3M 3334/3336)	1.0	Rolls

**Group 9 Schedule of Quantities Continued:**

Item Description	Quantity	Unit
<b>Sign Materials – ASTM Proposed Type XI (Various Colors)</b>		
12" X 50 YDS. (3M 4090 Series)	5.0	Rolls
18" X 50 YDS. (3M 4090 Series)	5.0	Rolls
24" X 50 YDS. (3M 4090 Series)	2.0	Rolls
30" X 50 YDS. (3M 4090 Series)	2.0	Rolls
36" X 50 YDS. (3M 4090 Series)	2.0	Rolls
<b>(Fluorescent Yellow Green)</b>		
9" X 50 YDS. (3M 4083)	3.0	Rolls
10" X 50 YDS. (3M 4083)	3.0	Rolls
21 ¼" X 50 YDS. (3M 4083)	3.0	Rolls
30" X 50 YDS. (3M 4083)	3.0	Rolls
36" X 50 YDS. (3M 4083)	5.0	Rolls
<b>(Fluorescent Yellow)</b>		
24" X 50 YDS. (3M 4081)	2.0	Rolls
30" X 50 YDS. (3M 4081)	2.0	Rolls
36" X 50 YDS. (3M 4081)	3.0	Rolls
<b>(Fluorescent Orange)</b>		
3" X 50 YDS. (3M 4084)	2.0	Rolls
48" X 48" (3M 4084)	38.0	Sheets
24" X 50 YDS. (3M 4084)	2.0	Rolls
30" X 50 YDS. (3M 4084)	2.0	Rolls
36" X 50 YDS. (3M 4084)	2.0	Rolls

**Group 9 Schedule of Quantities Continued:**

Item Description	Quantity	Unit
<b>Retro-Reflective Conspicuity Sheeting 3M 983 or Equivalent (Various Colors)</b>		
2" X 50 YDS. (3M 983)	10.0	Rolls
3" X 50 YDS. (3M 983)	10.0	Rolls
<b>Non-Reflective 3M 7725 Series or Equivalent</b>		
30" X 50 YDS. (3M 7725 Series)	10.0	Rolls
24" X 50 YDS. (3M 7725 Series)	10.0	Rolls
36" X 50 YDS. (3M 7725 Series)	10.0	Rolls
<b>3M 7720 Series or Equivalent Gerber Punched</b>		
15" X 50 YDS. (3M 7720)	20.0	Rolls
<b>ASTM Type 1 Engineer Grade 3M 3290 or Equivalent</b>		
6" X 50 YDS. (3M 3290)	1.0	Rolls
9" X 50 YDS. (3M 3290)	1.0	Rolls
12" X 50 YDS. (3M 3290)	1.0	Rolls
18" X 50 YDS. (3M 3290)	1.0	Rolls
24" X 50 YDS. (3M 3290)	1.0	Rolls
30" X 50 YDS. (3M 3290)	1.0	Rolls
36" X 50 YDS. (3M 3290)	1.0	Rolls
48" X 50 YDS. (3M 3290)	1.0	Rolls

**GROUP 10: SIGN BASES**

**Description:** This work shall consist of supplying various size sign bases (blanks) for making highway signs and delivering them to the LCDOT yard.

**Materials:** The sign bases shall meet the requirements of Section 1090 of the “Standard Specifications” and the following:

<b>SIGN BASES (BLANKS)</b>		
<b>BASE TYPE</b>	<b>BASE SIZE</b>	<b>BASE THICKNESS</b>
Type 1	Less than 6 feet wide or less than 9 square feet in area	0.080 inches ± 0.004 inches*
Type 2	Greater than 6 feet wide or greater than 9 square feet in area	0.125 inches ± 0.007 inches

*\*LCDOT requires 0.125 inches ± 0.007 inches for some type 1 sign bases (blanks). The proposed Sign Base thickness is shown in the Schedule of Quantities which follows the Basis of Payment Paragraph.*

*Sign bases may have a maximum of six 5/16” mounting holes (except the 48” x 48” Diamond which has 9 holes). The hole locations and/or patterns are shown on the sign base (blanks) diagrams included herein. The bases shall have a 1½ inch radius on the corners.*

**The Sign Base (Blanks) diagrams have been changed effective 8/26/16. The corner radius has been changed to 1½”.**

**General:** Upon contract award the successful bidder shall furnish a one square foot sample of the metal together with a certificate that the signs are made from the same lot or heat number of metal represented by the sample. If more than one lot or heat number is involved, a one square foot sample shall be furnished for each lot or heat number. The report shall be sent to the attention of the LCDOT Director of Maintenance.

*All LCDOT orders will be for a minimum of 200 blanks of various sizes.*

**NOTE:** All deliveries **shall** be made within **30 Calendar Days** of receipt of an order placed by LCDOT. A delivery arriving at the Lake County Yard after 1:00 pm **may not** be unloaded until the next working day.

*LCDOT reserves the right to modify the mounting hole locations and/or patterns. When applicable, modified diagrams will be provided to the supplier when the order is placed.*

*LCDOT also reserves the right to order additional base (blank) sizes not originally reflected in the proposal. A unit price (per square foot) has been included in the Group 10 Schedule of Quantities for these Miscellaneous Sized Sign Blanks.*

*Orders for additional base (blank) sizes will be for a minimum quantity of 25.*

**Method of Measurement:** The Sign Bases (Blanks) will be measured for payment as each of the size and type specified or in square feet for the Miscellaneous Sized Sign Blanks.

**Basis of Payment:** This work will be paid for at the contract unit price per each SIGN BASE of the size and type specified or per square foot for MISCELLANEOUS SIZED SIGN BLANKS.

**Group 10 Schedule of Quantities:**

Item Description	Quantity	Unit
<b>Sign Blanks</b>		
06" x 12" .080	50.0	Each
06" x 18" .080	50.0	Each
06" x 24" .080	50.0	Each
06" x 30" .080	50.0	Each
06" x 36" .080	50.0	Each
09" x 24" .080	25.0	Each
09" x 30" .080	25.0	Each
09" x 36" .080	25.0	Each
09" x 42" .080	50.0	Each
12" x 12" .080	50.0	Each
12" x 18" .080	250.0	Each
12" x 24" .080	100.0	Each
12" x 30" .080	75.0	Each
12" x 36" .080	200.0	Each
12" x 42" .080	200.0	Each
12" x 48" .080	200.0	Each
12" x 54" .080	200.0	Each
12" x 96" .125	12.0	Each

**Group 10 Schedule of Quantities Continued:**

Item Description	Quantity	Unit
15" x 21" .080	300.0	Each
15" x 30" .080	10.0	Each
15" x 36" .080	10.0	Each
18" x 18" .080	200.0	Each
18" x 24" .080	200.0	Each
18" x 30" .080	100.0	Each
18" x 36" .080	100.0	Each
18" x 42" .080	10.0	Each
18" x 48" .080	10.0	Each
18" x 54" .080	25.0	Each
18" x 60" .080	25.0	Each
18" x 66" .080	25.0	Each
18" x 72" .080	25.0	Each
18" x 78" .080	25.0	Each
18" x 84" .080	50.0	Each
24" x 24" .080	75.0	Each
24" x 30" .080	150.0	Each
24" x 36" .080	100.0	Each
24" x 48" .080	25.0	Each
30" x 30" .080	100.0	Each
30" x 30" .080 DIAMOND (CLEAN UP CREW)	50.0	Each
30" x 36" .080	300.0	Each
30" x 42" .080	25.0	Each
36" x 36" .080	200.0	Each
36" x 42" .080	25.0	Each
36" x 48" .080	25.0	Each
18" x 18" x 18" TRIANGLE (YIELD) .080	10.0	Each

**Group 10 Schedule of Quantities Continued:**

Item Description	Quantity	Unit
24" x 24" x 24" TRIANGLE (YIELD) .080	10.0	Each
30" x 30" x 30" TRIANGLE (YIELD) .080	10.0	Each
36" x 36" x 36" TRIANGLE (YIELD) .080	10.0	Each
18" x 18" OCTAGON .080	50.0	Each
24" x 24" OCTAGON .080	25.0	Each
30" x 30" OCTAGON .080	200.0	Each
36" x 36" OCTAGON .080	125.0	Each
18" CIRCLE (RXR) .080	10.0	Each
30" CIRCLE (RXR) .080	10.0	Each
36" CIRCLE (RXR) .080	15.0	Each
24" x 24" COUNTY SHIELD .080	150.0	Each
30" x 30" PENTAGON .080	10.0	Each
36" x 36" PENTAGON .080	50.0	Each
36" x 48" x 48" TRIANGLE (NPP)	25.0	Each
9" x 24" .125	50.0	Each
9" x 30" .125	100.0	Each
9" x 36" .125	100.0	Each
9" x 42" .125	75.0	Each
9" x 48" .125	25.0	Each
18" x 60" .125	10.0	Each
18" x 66" .125	10.0	Each
18" x 72" .125	10.0	Each
18" x 78" .125	10.0	Each
18" x 84" .125	10.0	Each
18" x 96" .125	10.0	Each
24" x 60" .125	10.0	Each
24" x 96" .125	10.0	Each

**Group 10 Schedule of Quantities Continued:**

Item Description	Quantity	Unit
30" x 48" .125	10.0	Each
30" x 60" .125	10.0	Each
30" x 66" .125	10.0	Each
30" x 72" .125	10.0	Each
36" x 48" .125	10.0	Each
36" x 60" .125	25.0	Each
36" x 72" .125	10.0	Each
36" x 96" .125	10.0	Each
42" x 60" .125	10.0	Each
48" x 48" .125 DIAMOND	10.0	Each
48" x 60" .125	10.0	Each
48" x 72" .125	10.0	Each
Miscellaneous Sized Sign Blanks		
0.080	100.0	Square Feet
0.125	100.0	Square Feet

## **GROUP 11: PREFORMED PLASTIC PAVEMENT MARKINGS & PAVEMENT MARKING TAPE**

**Description:** This work shall consist of supplying Preformed Plastic Pavement Markings in various size rolls, various letters and symbols and related primer material for marking LCDOT highways. The work shall also consist of supplying Pavement Marking Tape in various sizes for temporary marking of LCDOT highways. All materials shall be delivered to the LCDOT yard.

### **Materials:**

The preformed plastic pavement markings shall meet the requirements of Article 1095.03 of the "Standard Specifications" and the following:

*The preformed plastic pavement markings shall be limited to Type B only.*

The pavement marking tape shall meet the requirements of Article 1095.06 of the "Standard Specifications" and the following:

*The pavement marking tape shall be limited to Type III only.*

**General:** The preformed plastic pavement markings shall meet the requirements of Article 1095.03 of the "Standard Specifications" and the following:

***Prospective Bidder Certification:** Prospective bidders shall submit with their proposal, a certification statement on company letterhead, that shall list a minimum of three Agencies in Illinois that have had a successful experience using the preformed pavement marking material to be supplied (a successful experience is defined as a minimum of one year on new concrete surfaces). Contact names and phone numbers for each agency shall be included.*

**Method of Measurement:** The Preformed Plastic Pavement Markings will be measured for payment as each for the material roll of the size and length specified or for the letters and symbols of the type specified. The primer material will be measured for payment as gallons.

**Basis of Payment:** This work will be paid for at the contract unit price per each for the PREFORMED PLASTIC PAVEMENT MARKINGS rolls of the size and length specified or per each for the PREFORMED PLASTIC PAVEMENT MARKINGS letters and symbols of the type specified or. The PRIMER MATERIAL will be paid for at the contract unit price per gallon.

**Group 11 Schedule of Quantities:**

Item Description	Quantity	Unit
<b>Preformed Plastic Materials White &amp; Yellow IDOT Type B</b>		
6" x 30 Yds. (3M A380IES)	5.0	Rolls
8" x 30 Yds. (3M A380IES)	5.0	Rolls
12" x 30 Yds. (3M A380IES)	5.0	Rolls
24" x 30 Yds. (3M A380IES)	10.0	Rolls
<b>Letters &amp; Symbols</b>		
Left Arrow (3M SMS-L380IES-LA) (4/Pkg)	1.0	Pkg of 4 Each
Right Arrow (3M SMS-L380IES-RA) (4/Pkg)	1.0	Pkg of 4 Each
Only (3M SMS-L380IES-ON) (2/Pkg)	2.0	Pkg of 2 Each
Railroad Crossing Kit (3M SMS-L380IES-RX) (1/Pkg)	10.0	Pkg of 1 Each
Primer Material (3M P50)	20.0	Gallons
<b>Pavement Marking Tape</b>		
4" X 30 Yds. (3M A380IES)	5.0	Rolls
5" X 30 Yds. (3M A380IES)	5.0	Rolls

**GROUP 12: CALCIUM CHLORIDE (CaCl)**

**Description:** This work shall consist of supplying Calcium Chloride (CaCl) to be used to deice LCDOT highways. The Calcium Chloride (CaCl) shall be delivered to the LCDOT yard.

**Materials:** The Calcium Chloride (CaCl) shall be according to AASHTO Standard M144-86 (1993). The Material shall be Type L (Liquid) with a concentration of 32%.

**General:** All Calcium Chloride (CaCl) orders will be for a minimum of 4,000 gallons.

**NOTE:** All deliveries **shall** be made within **48 hours** of LCDOT placing the order.

LCDOT reserves the right to perform any and all of the inspections set forth in AASHTO Standard M144-86 when it is deemed necessary to assure that the materials supplied conform to the prescribed requirements.

**Method of Measurement:** The Calcium Chloride (CaCl) will be measured for payment in gallons.

**Basis of Payment:** This work will be paid for at the contract unit price per gallon for CALCIUM CHLORIDE (CaCl).

**Group 12 Schedule of Quantities:**

Item Description	Quantity	Unit
Calcium Chloride (CaCl)	35,000.0	Gallons

State of Illinois  
Department of Transportation  
Bureau of Local Roads and Streets

SPECIAL PROVISION  
FOR  
EMPLOYMENT PRACTICES

Effective: January 1, 1999

In addition to all other labor requirements set forth in this proposal and in the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation, during the performance of this contract, the Contractor for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:

**Selection of Labor.** The Contractor shall comply with all Illinois statutes pertaining to the selection of labor.

**Equal Employment Opportunity.** During the performance of this contract, the Contractor agrees as follows:

- (a) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, ancestry, age, marital status, physical or mental handicap or unfavorable discharge from military service, and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- (b) That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- (c) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, national origin, ancestry, age, martial status, physical or mental handicap or unfavorable discharge from military service.

That it will send to each labor organization or representative of workers with which it has or is bound by collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any such labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with so such Act and Rules and Regulations, the Contractor will promptly so notify the Illinois Department of Human Rights and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.

## CHECK SHEET #LRS11

- (e) That it will submit reports as required by the Department of Human Rights Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.
- (f) That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.
- (g) That it will include verbatim or by reference the provisions of this clause in every subcontract so that such provisions will be binding upon every such subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by all its subcontractors; and further it will promptly notify the contracting agency and the Illinois Department of Human Rights in the event any subcontractor fails or refuses to comply therewith. In addition, the Contractor will not utilize any subcontractor declared by the subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

CHECK SHEET  
FOR  
RECURRING SPECIAL PROVISIONS

Adopted April 1, 2016

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

<u>CHECK SHEET #</u>	<u>RECURRING SPECIAL PROVISIONS</u>	<u>PAGE NO.</u>
1	<input type="checkbox"/> Additional State Requirements for Federal-Aid Construction Contracts	1
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	4
3	<input type="checkbox"/> EEO	5
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	15
5	<input type="checkbox"/> Required Provisions - State Contracts	20
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	26
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos Hot-Mix Asphalt Surface Removal	27
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	28
9	<input type="checkbox"/> Construction Layout Stakes Except for Bridges	29
10	<input type="checkbox"/> Construction Layout Stakes	32
11	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	35
12	<input type="checkbox"/> Subsealing of Concrete Pavements	37
13	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	41
14	<input type="checkbox"/> Pavement and Shoulder Resurfacing	43
15	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	44
16	<input type="checkbox"/> Polymer Concrete	45
17	<input type="checkbox"/> PVC Pipeliner	47
18	<input type="checkbox"/> Bicycle Racks	48
19	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	50
20	<input type="checkbox"/> Work Zone Public Information Signs	52
21	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	53
22	<input type="checkbox"/> English Substitution of Metric Bolts	54
23	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	55
24	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	56
25	<input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	64
26	<input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations	80
27	<input type="checkbox"/> Pavement Marking Removal	82
28	<input type="checkbox"/> Preventive Maintenance – Bituminous Surface Treatment	83
29	<input type="checkbox"/> Preventive Maintenance – Cape Seal	89
30	<input type="checkbox"/> Preventive Maintenance – Micro-Surfacing	104
31	<input type="checkbox"/> Preventive Maintenance – Slurry Seal	115
32	<input type="checkbox"/> Temporary Raised Pavement Markers	125
33	<input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam	126

Revised 10/14/14

CHECK SHEET  
FOR  
LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

Adopted April 1, 2016

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

<u>LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS</u>		<u>PAGE NO.</u>
<u>CHECK SHEET #</u>		
1	<b>Reserved</b>	130
2	<input type="checkbox"/> Furnished Excavation	131
3	<input type="checkbox"/> Work Zone Traffic Control Surveillance	132
4	<input type="checkbox"/> Flaggers in Work Zones	133
5	<input checked="" type="checkbox"/> Contract Claims	134
6	<input type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals	135
7	<input checked="" type="checkbox"/> Bidding Requirements and Conditions for Material Proposals	141
8	<b>Reserved</b>	147
9	<input type="checkbox"/> Bituminous Surface Treatments	148
10	<b>Reserved</b>	149
11	<input checked="" type="checkbox"/> Employment Practices	150
12	<input type="checkbox"/> Wages of Employees on Public Works	152
13	<input checked="" type="checkbox"/> Selection of Labor	154
14	<input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks	155
15	<input checked="" type="checkbox"/> Partial Payments	158
16	<input checked="" type="checkbox"/> Protests on Local Lettings	159
17	<input type="checkbox"/> Substance Abuse Prevention Program	160
18	<input type="checkbox"/> Multigrade Cold Mix Asphalt	161

## RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (D-1)

Effective: November 1, 2012

Revise: April 2, 2016

Revise Section 1031 of the Standard Specifications to read:

### **“SECTION 1031. RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES**

**1031.01 Description.** Reclaimed asphalt pavement and reclaimed asphalt shingles shall be according to the following.

- (a) Reclaimed Asphalt Pavement (RAP). RAP is the material resulting from cold milling or crushing an existing hot-mix asphalt (HMA) pavement. RAP will be considered processed FRAP after completion of both crushing and screening to size. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.
- (b) Reclaimed Asphalt Shingles (RAS). Reclaimed asphalt shingles (RAS). RAS is from the processing and grinding of preconsumer or post-consumer shingles. RAS shall be a clean and uniform material with a maximum of 0.5 percent unacceptable material, as defined in Bureau of Materials and Physical Research Policy Memorandum, “Reclaimed Asphalt Shingle (RAS) Sources”, by weight of RAS. All RAS used shall come from a Bureau of Materials and Physical Research approved processing facility where it shall be ground and processed to 100 percent passing the 3/8 in. (9.5 mm) sieve and 90 percent passing the #4 (4.75 mm) sieve. RAS shall meet the testing requirements specified herein. In addition, RAS shall meet the following Type 1 or Type 2 requirements.
  - (1) Type 1. Type 1 RAS shall be processed, preconsumer asphalt shingles salvaged from the manufacture of residential asphalt roofing shingles.
  - (2) Type 2. Type 2 RAS shall be processed post-consumer shingles only, salvaged from residential, or four unit or less dwellings not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP).

**1031.02 Stockpiles.** RAP and RAS stockpiles shall be according to the following.

- (a) RAP Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. Additional processed RAP (FRAP) shall be stockpiled in a separate working pile, as designated in the QC Plan, and only added to the sealed stockpile when test results for the working pile are complete and are found to meet tolerances specified herein for the original sealed FRAP stockpile. Stockpiles shall be sufficiently separated to prevent intermingling at the base. All stockpiles (including

unprocessed RAP and FRAP) shall be identified by signs indicating the type as listed below (i.e. "Non- Quality, FRAP -#4 or Type 2 RAS", etc...).

- (1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, Superpave HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in FRAP shall be crushed aggregate and may represent more than one aggregate type and/or quality, but shall be at least C quality. All FRAP shall be processed prior to testing and sized into fractions with the separation occurring on or between the #4 (4.75 mm) and 1/2 in. (12.5 mm) sieves. Agglomerations shall be minimized such that 100 percent of the RAP in the coarse fraction shall pass the maximum sieve size specified for the mix the FRAP will be used in.
- (2) Restricted FRAP (B quality) stockpiles shall consist of RAP from Class I, Superpave (High ESAL), or HMA (High ESAL). If approved by the Engineer, the aggregate from a maximum 3.0 in. (75 mm) single combined pass of surface/binder milling will be classified as B quality. All millings from this application will be processed into FRAP as described previously.
- (3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, Superpave HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality, but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate RAP shall be processed (FRAP) prior to testing. Conglomerate RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (4) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from HMA shoulders, bituminous stabilized subbases or Superpave (Low ESAL)/HMA (Low ESAL) IL-19.0L binder mixture. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (5) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP or FRAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, joint sealants, plant cleanout etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.

- (b) RAS Stockpiles. Type 1 and Type 2 RAS shall be stockpiled separately and shall be sufficiently separated to prevent intermingling at the base. Each stockpile shall be signed indicating what type of RAS is present.

However, a RAS source may submit a written request to the Department for approval to blend mechanically a specified ratio of Type 1 RAS with Type 2 RAS. The source will not be permitted to change the ratio of the blend without the Department prior written approval. The Engineer's written approval will be required, to mechanically blend RAS with any fine aggregate produced under the AGCS, up to an equal weight of RAS, to improve workability. The fine aggregate shall be "B Quality" or better from an approved Aggregate Gradation Control System source. The fine aggregate shall be one that is approved for use in the HMA mixture and accounted for in the mix design and during HMA production.

Records identifying the shingle processing facility supplying the RAS, RAS type, and lot number shall be maintained by project contract number and kept for a minimum of three years.

**1031.03 Testing.** FRAP and RAS testing shall be according to the following.

(a) FRAP Testing. When used in HMA, the FRAP shall be sampled and tested either during processing or after stockpiling. It shall also be sampled during HMA production.

(1) During Stockpiling. For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).

(2) Incoming Material. For testing as incoming material, washed extraction samples shall be run at a minimum frequency of one sample per 2000 tons (1800 metric tons) or once per week, whichever comes first.

(3) After Stockpiling. For testing after stockpiling, the Contractor shall submit a plan for approval to the District proposing a satisfactory method of sampling and testing the RAP/FRAP pile either in-situ or by restockpiling. The sampling plan shall meet the minimum frequency required above and detail the procedure used to obtain representative samples throughout the pile for testing.

Before extraction, each field sample of FRAP, shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedure. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

(b) RAS Testing. RAS shall be sampled and tested during stockpiling according to Bureau of Materials and Physical Research Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Sources". The Contractor shall also sample as incoming material at the HMA plant.

- (1) During Stockpiling. Washed extraction and testing for unacceptable materials shall be run at the minimum frequency of one sample per 200 tons (180 metric tons) for the first 1000 tons (900 metric tons) and one sample per 1000 tons (900 metric tons) thereafter. A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). Once a  $\leq 1000$  ton (900 metric ton), five-sample/test stockpile has been established it shall be sealed. Additional incoming RAS shall be in a separate working pile as designated in the Quality Control plan and only added to the sealed stockpile when the test results of the working pile are complete and are found to meet the tolerances specified herein for the original sealed RAS stockpile.
- (2) Incoming Material. For testing as incoming material at the HMA plant, washed extraction shall be run at the minimum frequency of one sample per 250 tons (227 metric tons). A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). The incoming material test results shall meet the tolerances specified herein.

The Contractor shall obtain and make available all test results from start of the initial stockpile sampled and tested at the shingle processing facility in accordance with the facility's QC Plan.

Before extraction, each field sample shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedures. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

**1031.04 Evaluation of Tests.** Evaluation of test results shall be according to the following.

- (a) Evaluation of FRAP Test Results. All test results shall be compiled to include asphalt binder content, gradation and, when applicable (for slag),  $G_{mm}$ . A five test average of results from the original pile will be used in the mix designs. Individual extraction test results run thereafter, shall be compared to the average used for the mix design, and will be accepted if within the tolerances listed below.

Parameter	FRAP
No. 4 (4.75 mm)	$\pm 6 \%$
No. 8 (2.36 mm)	$\pm 5 \%$
No. 30 (600 $\mu\text{m}$ )	$\pm 5 \%$
No. 200 (75 $\mu\text{m}$ )	$\pm 2.0 \%$
Asphalt Binder	$\pm 0.3 \%$
$G_{mm}$	$\pm 0.03$ <sup>1/</sup>

- 1/ For stockpile with slag or steel slag present as determined in the current Manual of Test Procedures Appendix B 21, "Determination of Reclaimed Asphalt Pavement Aggregate Bulk Specific Gravity".

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the FRAP stockpile shall not be used in Hot-Mix Asphalt unless the FRAP representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

The Contractor shall maintain a representative moving average of five tests to be used for Hot-Mix Asphalt production.

With the approval of the Engineer, the ignition oven may be substituted for extractions according to the ITP, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)" or Illinois Modified AASHTO T-164-11, Test Method A.

- (b) Evaluation of RAS Test Results. All of the test results, with the exception of percent unacceptable materials, shall be compiled and averaged for asphalt binder content and gradation. A five test average of results from the original pile will be used in the mix designs. Individual test results run thereafter, when compared to the average used for the mix design, will be accepted if within the tolerances listed below.

Parameter	RAS
No. 8 (2.36 mm)	± 5 %
No. 16 (1.18 mm)	± 5 %
No. 30 (600 µm)	± 4 %
No. 200 (75 µm)	± 2.5 %
Asphalt Binder Content	± 2.0 %

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the RAS shall not be used in Hot-Mix Asphalt unless the RAS representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

- (c) Quality Assurance by the Engineer. The Engineer may witness the sampling and splitting conduct assurance tests on split samples taken by the Contractor for quality control testing a minimum of once a month.

The overall testing frequency will be performed over the entire range of Contractor samples for asphalt binder content and gradation. The Engineer may select any or all split samples for assurance testing. The test results will be made available to the Contractor as soon as they become available.

The Engineer will notify the Contractor of observed deficiencies.

Differences between the Contractor's and the Engineer's split sample test results will be considered acceptable if within the following limits.

Test Parameter	Acceptable Limits of Precision	
	FRAP	RAS
% Passing: <sup>1/</sup>		
1/2 in.	5.0%	
No. 4	5.0%	
No. 8	3.0%	4.0%
No. 30	2.0%	3.0%
No. 200	2.2%	2.5%
Asphalt Binder Content	0.3%	1.0%
G <sub>mm</sub>	0.030	

1/ Based on washed extraction.

In the event comparisons are outside the above acceptable limits of precision, the Engineer will immediately investigate.

- (d) Acceptance by the Engineer. Acceptable of the material will be based on the validation of the Contractor's quality control by the assurance process.

**1031.05 Quality Designation of Aggregate in RAP and FRAP.**

- (a) RAP. The aggregate quality of the RAP for homogeneous, conglomerate, and conglomerate "D" quality stockpiles shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.

- (1) RAP from Class I, Superpave/HMA (High ESAL), or (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.
- (2) RAP from Superpave/HMA (Low ESAL) IL-19.0L binder mixture is designated as Class D quality coarse aggregate.
- (3) RAP from Class I, Superpave/HMA (High ESAL) binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate.
- (4) RAP from bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate.

- (b) FRAP. If the Engineer has documentation of the quality of the FRAP aggregate, the Contractor shall use the assigned quality provided by the Engineer.

If the quality is not known, the quality shall be determined as follows. Fractionated RAP stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5,000 tons (4,500 metric tons). The Contractor shall obtain a representative sample witnessed by the Engineer. The sample shall be a minimum of 50 lb (25 kg). The sample shall be extracted according to Illinois Modified AASHTO T 164 by a consultant laboratory prequalified by the Department for the specified testing. The consultant laboratory shall submit the test results along with the recovered aggregate to the District Office. The cost for this testing shall be paid by the Contractor. The District will forward the sample to the Bureau of Materials and Physical Research Aggregate Lab for MicroDeval Testing, according to ITP 327. A maximum loss of 15.0 percent will be applied for all HMA applications. The fine aggregate portion of the fractionated RAP shall not be used in any HMA mixtures that require a minimum of "B" quality aggregate or better, until the coarse aggregate fraction has been determined to be acceptable thru a MicroDeval Testing.

**1031.06 Use of FRAP and/or RAS in HMA.** The use of FRAP and/or RAS shall be the Contractor's option when constructing HMA in all contracts.

(a) FRAP. The use of FRAP in HMA shall be as follows.

- (1) Coarse Aggregate Size (after extraction). The coarse aggregate in all FRAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
- (2) Steel Slag Stockpiles. FRAP stockpiles containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in HMA (High ESAL and Low ESAL) mixtures regardless of lift or mix type.
- (3) Use in HMA Surface Mixtures (High and Low ESAL). FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall have coarse aggregate that is Class B quality or better. FRAP shall be considered equivalent to limestone for frictional considerations unless produced/screened to minus 3/8 inch.
- (4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP in which the coarse aggregate is Class C quality or better.
- (5) Use in Shoulders and Subbase. FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, Restricted FRAP, conglomerate, or conglomerate DQ.

(b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.

- (c) FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with FRAP in HMA mixtures up to a maximum of 5.0 percent by weight of the total mix.

When FRAP is used alone or FRAP is used in conjunction with RAS, the percent of virgin asphalt binder replacement (ABR) shall not exceed the amounts indicated in the table below for a given N Design.

Max Asphalt Binder Replacement for FRAP with RAS Combination

HMA Mixtures <sup>1/2/4/</sup>	Maximum % ABR		
	Binder/Leveling Binder	Surface	Polymer Modified <sup>3/</sup>
Ndesign			
30L	50	40	30
50	40	35	30
70	40	30	30
90	40	30	30
4.75 mm N-50			40
SMA N-80			30

- 1/ For Low ESAL HMA shoulder and stabilized subbase, the percent asphalt binder replacement shall not exceed 50 % of the total asphalt binder in the mixture.
- 2/ When the binder replacement exceeds 15 % for all mixes, except for SMA and IL-4.75, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 % binder replacement using a virgin asphalt binder grade of PG64-22 will be reduced to a PG58-28). When constructing full depth HMA and the ABR is less than 15 %, the required virgin asphalt binder grade shall be PG64-28.
- 3/ When the ABR for SMA or IL-4.75 is 15 % or less, the required virgin asphalt binder shall be SBS PG76-22 and the elastic recovery shall be a minimum of 80. When the ABR for SMA or IL-4.75 exceeds 15%, the virgin asphalt binder grade shall be SBS PG70-28 and the elastic recovery shall be a minimum of 80.
- 4/ When FRAP or RAS is used alone, the maximum percent asphalt binder replacement designated on the table shall be reduced by 10 %.

**1031.07 HMA Mix Designs.** At the Contractor's option, HMA mixtures may be constructed utilizing RAP/FRAP and/or RAS material meeting the detailed requirements specified herein.

- (a) FRAP and/or RAS. FRAP and /or RAS mix designs shall be submitted for verification. If additional FRAP or RAS stockpiles are tested and found to be within tolerance, as defined under "Evaluation of Tests" herein, and meet all requirements herein, the

additional FRAP or RAS stockpiles may be used in the original design at the percent previously verified.

- (b) RAS. Type 1 and Type 2 RAS are not interchangeable in a mix design. A RAS stone bulk specific gravity (Gsb) of 2.300 shall be used for mix design purposes.

**1031.08 HMA Production.** HMA production utilizing FRAP and/or RAS shall be as follows.

To remove or reduce agglomerated material, a scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAS and FRAP feed system to remove or reduce oversized material. If material passing the sizing device adversely affects the mix production or quality of the mix, the sizing device shall be set at a size specified by the Engineer.

If during mix production, corrective actions fail to maintain FRAP, RAS or QC/QA test results within control tolerances or the requirements listed herein the Contractor shall cease production of the mixture containing FRAP or RAS and conduct an investigation that may require a new mix design.

- (a) RAS. RAS shall be incorporated into the HMA mixture either by a separate weight depletion system or by using the RAP weigh belt. Either feed system shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes. The portion of RAS shall be controlled accurately to within  $\pm 0.5$  percent of the amount of RAS utilized. When using the weight depletion system, flow indicators or sensing devices shall be provided and interlocked with the plant controls such that the mixture production is halted when RAS flow is interrupted.
- (b) HMA Plant Requirements. HMA plants utilizing FRAP and/or RAS shall be capable of automatically recording and printing the following information.

(1) Dryer Drum Plants.

- a. Date, month, year, and time to the nearest minute for each print.
- b. HMA mix number assigned by the Department.
- c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- d. Accumulated dry weight of RAS and FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.

- f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
  - g. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.
  - h. Aggregate RAS and FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAS and FRAP are printed in wet condition.)
  - i. When producing mixtures with FRAP and/or RAS, a positive dust control system shall be utilized.
  - j. Accumulated mixture tonnage.
  - k. Dust Removed (accumulated to the nearest 0.1 ton (0.1 metric ton))
- (2) Batch Plants.
- a. Date, month, year, and time to the nearest minute for each print.
  - b. HMA mix number assigned by the Department.
  - c. Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
  - d. Mineral filler weight to the nearest pound (kilogram).
  - f. RAS and FRAP weight to the nearest pound (kilogram).
  - g. Virgin asphalt binder weight to the nearest pound (kilogram).
  - h. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.

The printouts shall be maintained in a file at the plant for a minimum of one year or as directed by the Engineer and shall be made available upon request. The printing system will be inspected by the Engineer prior to production and verified at the beginning of each construction season thereafter.

**1031.09 RAP in Aggregate Surface Course and Aggregate Wedge Shoulders, Type B.**

The use of RAP or FRAP in aggregate surface course and aggregate shoulders shall be as follows.

- (a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except "Non-Quality" and "FRAP". The testing requirements of Article 1031.03 shall not apply. RAP used shall be according to the current Bureau of Materials and Physical

Research Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications".

- (b) Gradation. The RAP material shall meet the gradation requirements for CA 6 according to Article 1004.01(c), except the requirements for the minus No. 200 (75  $\mu$ m) sieve shall not apply. The sample for the RAP material shall be air dried to constant weight prior to being tested for gradation."

**STATE OF ILLINOIS  
DEPARTEMENT OF TRANSPORTION  
DIVISION OF HIGHWAYS  
LOCAL ROADS AND STREETS**

**BITUMINOUS PATCHING MIXTURES  
FOR MAINTENANCE USE**

Effective: January 1, 2004  
Revised: June 1, 2007

This special provision covers course graded and fine graded bituminous mixtures for use in maintaining small areas on flexible and rigid type pavement.

**Materials.** The materials, control, quality, sampling, testing, inspection and storage of material shall conform to the specific requirements of the Standard Specifications for Road and Bridge Construction adopted by the Department of Transportation.

**Bituminous Patching Mixtures.** The material supplier or contractor may furnish any of the following Bituminous Patching Mixtures listed in the individual Group for which the award was made.

Group I – Bituminous Patching Mixtures

Serial No. M-17-07: Bituminous Mixture for Maintenance Use, Emulsified Asphalt Type

Serial No. M-19-07: Bituminous Mixture for Maintenance Use, Liquid Asphalt Type

Serial No. M-20-07: Bituminous-Sand Mixture for Maintenance Use

Serial No. M-48-02: Bituminous Premix for Maintenance Use, Inverted Emulsified Asphalt CBAE-2

Serial No. M-126-07: Bituminous Mixes for Maintenance Use, Reinforced Fiber Mixture

Bituminous Patching Mixture (HMA): This mixture shall conform to the material requirements of Section 1030. The mixture shall be a High ESAL IL-12.5 N50, High ESAL IL-9.5 N50, or Low ESAL IL-9.5 N30 mix. The bituminous material shall be limited to asphalt PG 58-28 or PG 52-28.

Group II – Bituminous Patching Mixture (Proprietary)

Serial No. M-120-07: Bituminous Premix for Maintenance Use - Optimix, Sylcrete, UPM, QPR-2000, EZ Street, SMP - Proprietary Sources

Serial No. M-133-96: Bituminous Premix for Maintenance Use, Instant Road Repair - Proprietary

**Placing of Bituminous Patching Mixture.** All holes and depressions in the existing surface which exceed  $\frac{3}{4}$ " in depth shall be repaired by removal of all loose and defective material and replaced with the specified Bituminous Patching Mixture. The material shall be compacted to produce a tight surface conforming to the adjacent area.

**Method of Measurement.** Bituminous patching mixture will be measured for payment in metric tons (tons).

**Basis of Payment.** This work will be paid for at the contract unit price per metric ton (ton) for BITUMINOUS PATCHING MIXTURE (GROUP I); BITUMINOUS PATCHING MIXTURE (GROUP II);

| When bids are taken F.O.B. trucks at the mixing plant a hauling differential of \$\_\_\_\_\_ per ton-mile haul from mixing plant to location designated in the proposal will be used to determine the low bid. Round trip distance shall be used to calculate the hauling differential to be used to compare bids. Bidders are required to fill in the location of the plant from where they propose to supply the patching mixture, on the material proposal form.

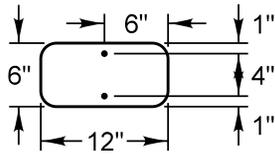
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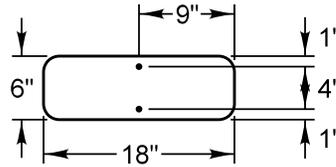


## Lake County Division of Transportation Sign Bases (Blanks)

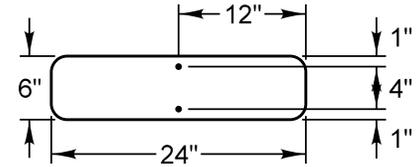
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2	9" (Width) Rectangular Bases (Blanks)
3	12" (Width) Rectangular Bases (Blanks)
4	15" (Width) Rectangular Bases (Blanks)
5	18" Rectangular Bases (Blanks)
6-8	18" (Width) Rectangular Bases (Blanks)
9	24" (Width) Rectangular Bases (Blanks)
10-11	30" (Width) Rectangular Bases (Blanks)
12	36" (Width) Rectangular Bases (Blanks)
13	42" & 48" (Width) Rectangular Bases (Blanks)
14	Triangular Bases (Blanks)
15	Octagonal Bases (Blanks)
16	Circular & Pentagonal Bases (Blanks)
17	Square / Diamond Bases (Blanks)
18-19	Miscellaneous Bases (Blanks)



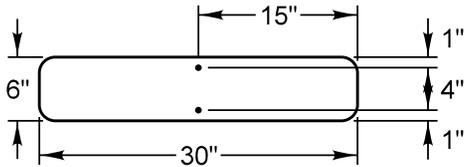
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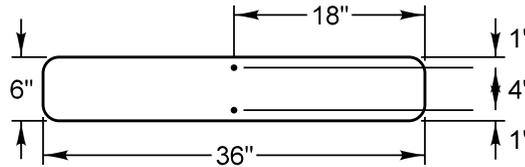
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6" x 24"



6" x 30"

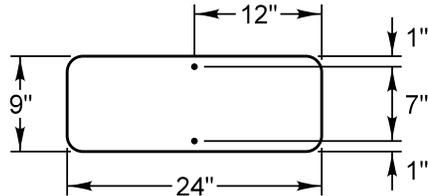


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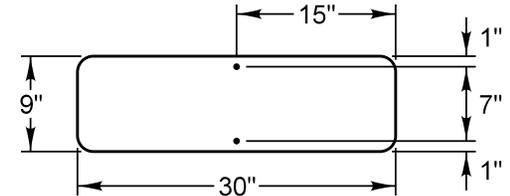
Drill All  $\frac{5}{16}$ " Holes

All Corners Cut with  
 $1\frac{1}{2}$ " Radius

## 6" (WIDTH) RECTANGULAR BASES (BLANKS)



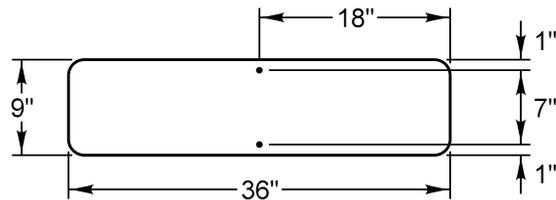
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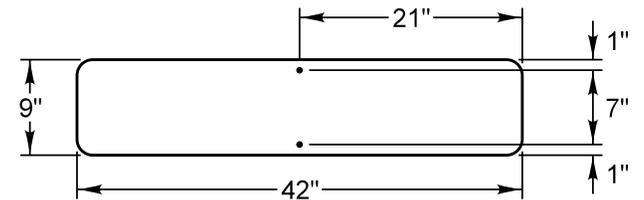
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Drill All  $\frac{5}{16}$ " Holes

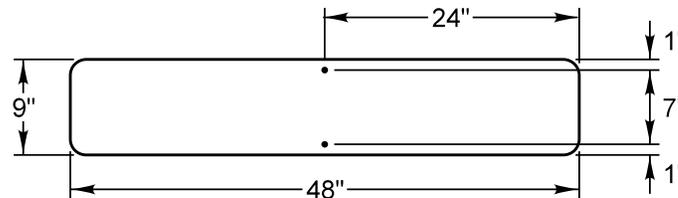
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 $1\frac{1}{2}$ " Radius



9" x 36"

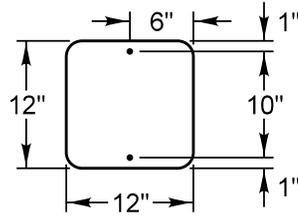


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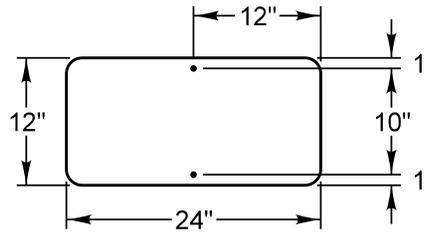


9" x 48"

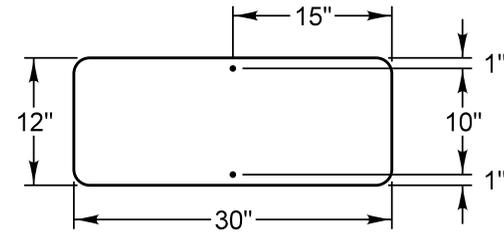
**9" (WIDTH) RECTANGULAR BASES (BLANKS)**



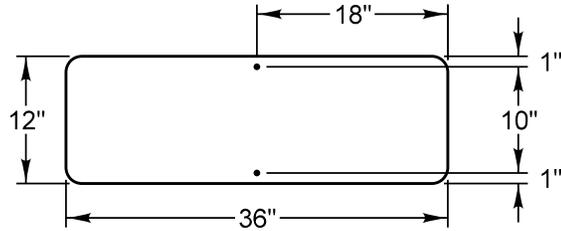
12" x 12"



12" x 24"



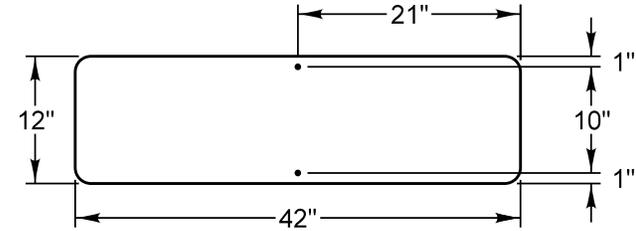
12" x 30"



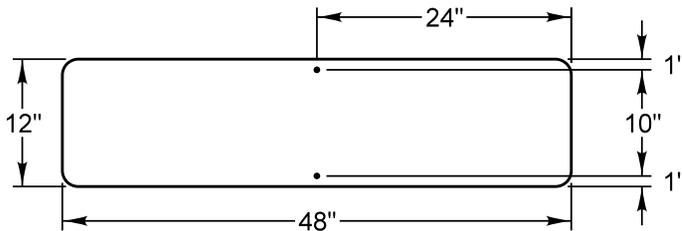
12" x 36"

Drill All  $\frac{5}{16}$ " Holes

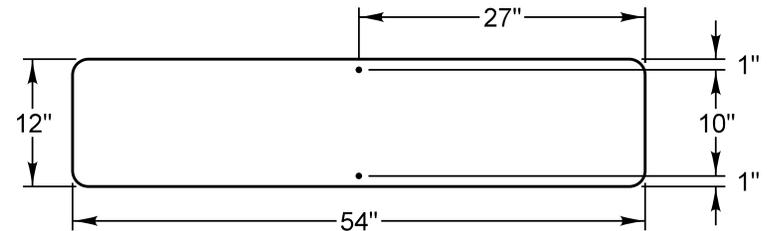
All Corners Cut with  
 $1\frac{1}{2}$ " Radius



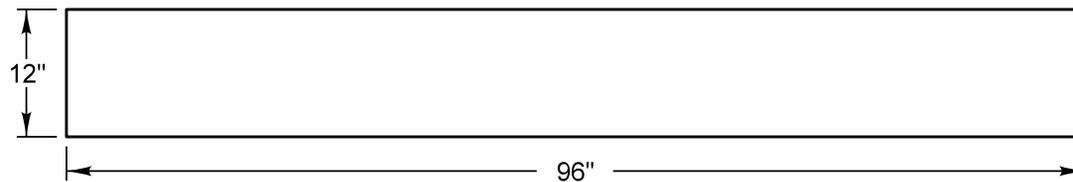
12" x 42"



12" x 48"

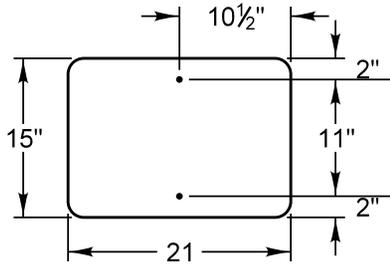


12" x 54"

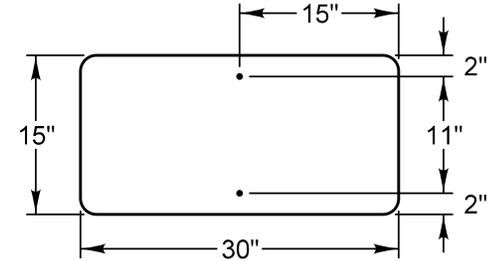


12" x 96" (NO HOLES & NO CORNERS)

**12" (WIDTH) RECTANGULAR BASES (BLANKS)**



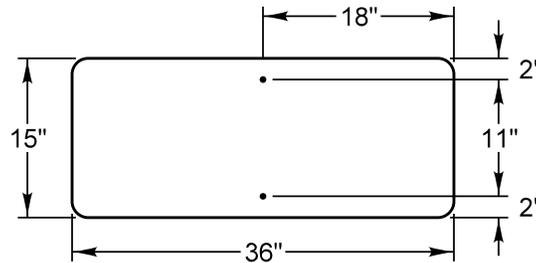
15" x 21"



15" x 30"

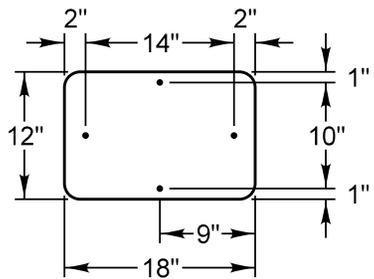
Drill All  $\frac{5}{16}$ " Holes

All Corners Cut with  
 $1\frac{1}{2}$ " Radius



15" x 36"

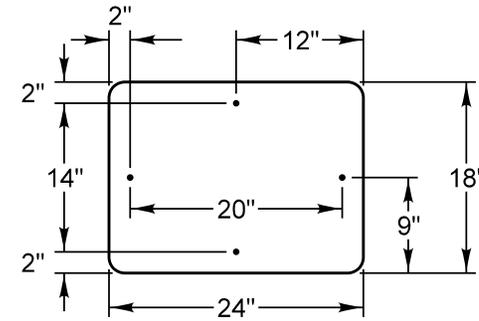
# 15" (WIDTH) RECTANGULAR BASES (BLANKS)



18" x 12"

Drill All  $\frac{5}{16}$ " Holes

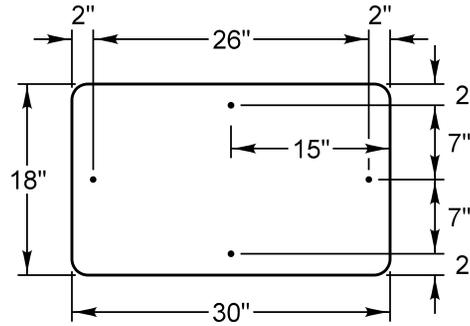
All Corners Cut with  
 $1\frac{1}{2}$ " Radius



18" x 24"

Note: These Rectangular  
Blanks may be used  
Horizontally or Vertically

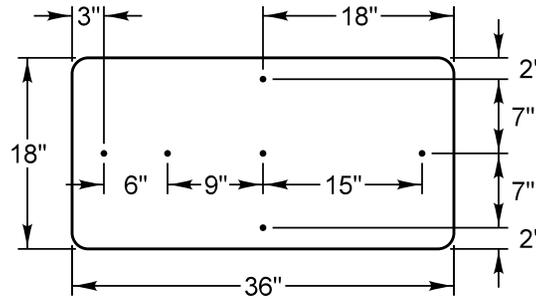
## 18" RECTANGULAR BASES (BLANKS)



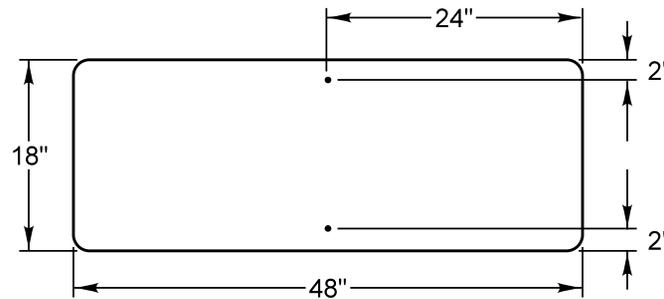
18" x 30"

Drill All  $\frac{5}{16}$ " Holes

All Corners Cut with  
 $1\frac{1}{2}$ " Radius

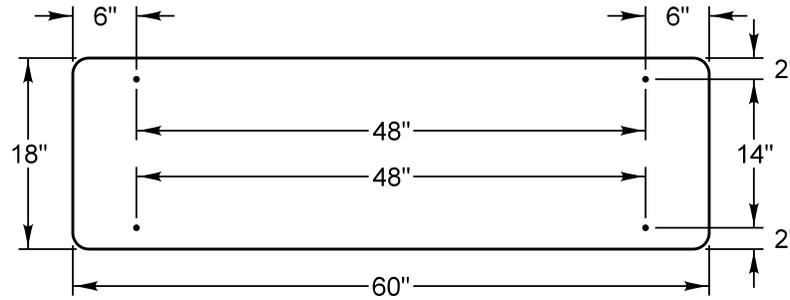


18" x 36"



18" x 48"

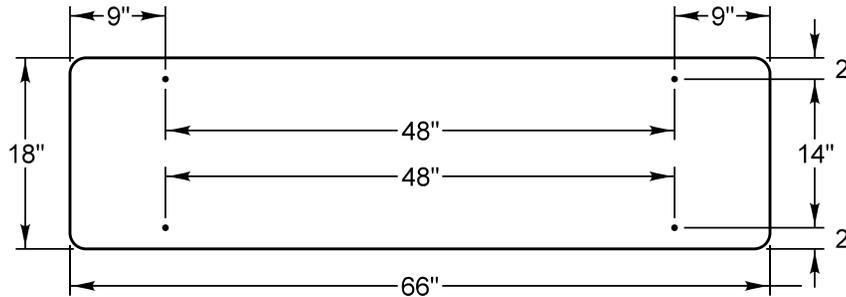
## 18" (WIDTH) RECTANGULAR BASES (BLANKS)



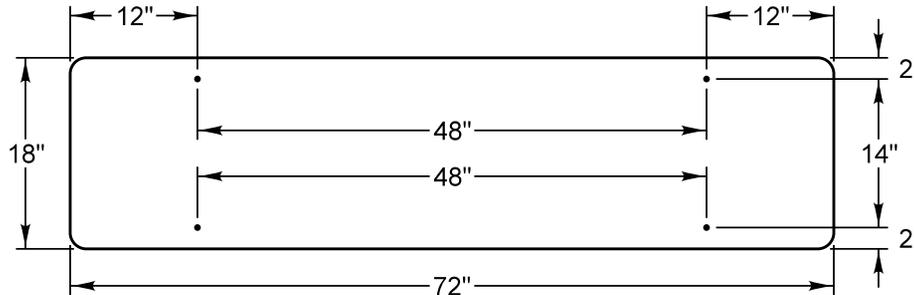
18" x 60"

Drill All  $\frac{5}{16}$ " Holes

All Corners Cut with  
 $1\frac{1}{2}$ " Radius

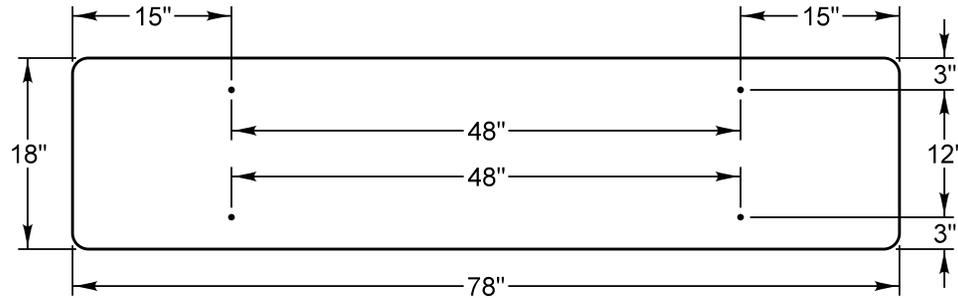


18" x 66"



18" x 72"

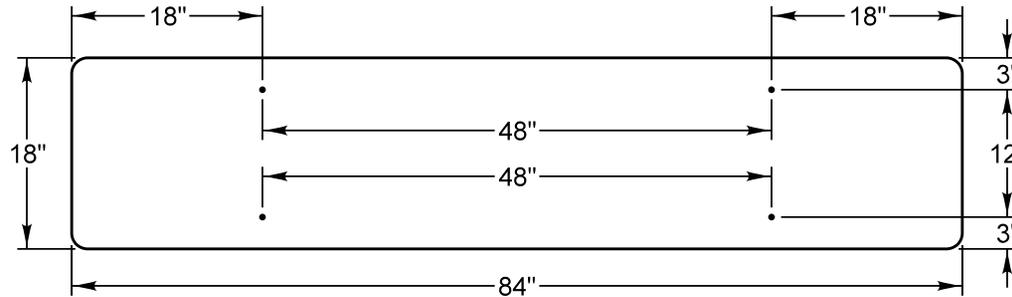
## 18" (WIDTH) RECTANGULAR BASES (BLANKS)



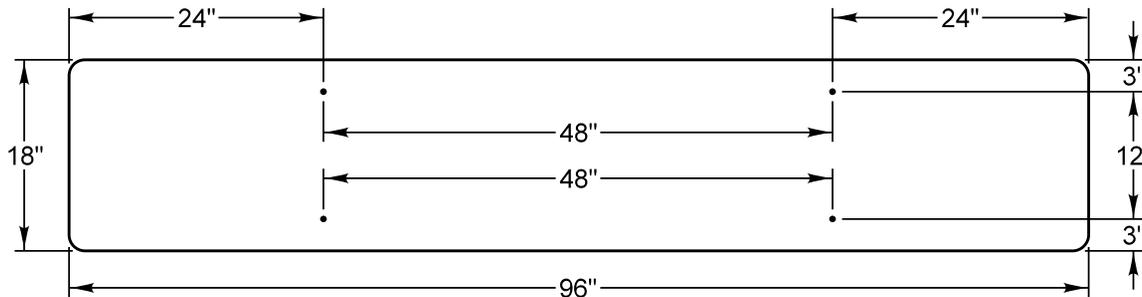
18" x 78"

Drill All  $\frac{5}{16}$ " Holes

All Corners Cut with  
 $1\frac{1}{2}$ " Radius

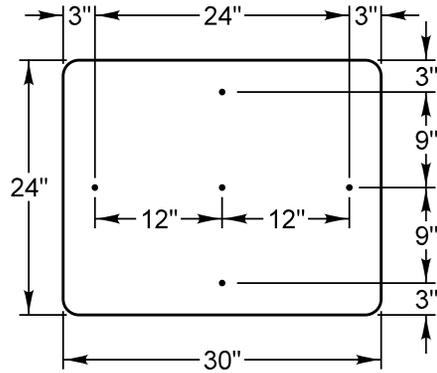


18" x 84"

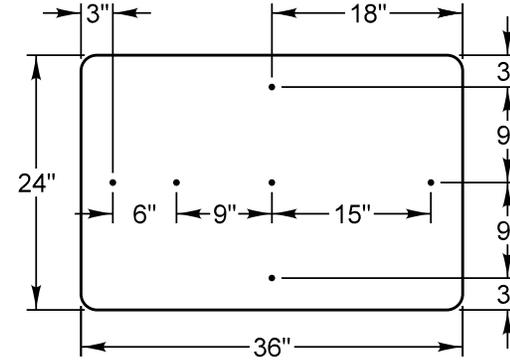


18" x 96"

## 18" (WIDTH) RECTANGULAR BASES (BLANKS)

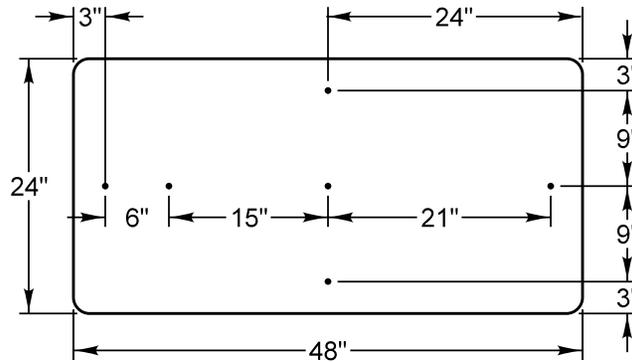


24" x 30"



24" x 36"

Note: These Rectangular Blanks may be used Horizontally or Vertically

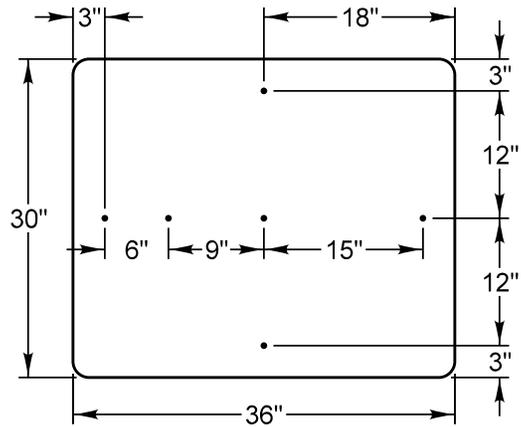


24" x 48"

Drill All  $\frac{5}{16}$ " Holes

All Corners Cut with  $1\frac{1}{2}$ " Radius

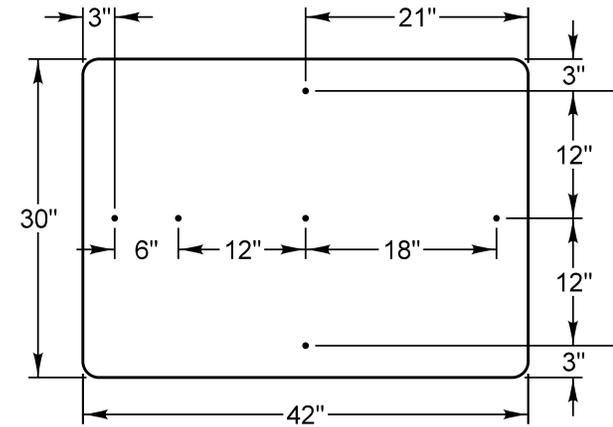
## 24" (WIDTH) RECTANGULAR BASES (BLANKS)



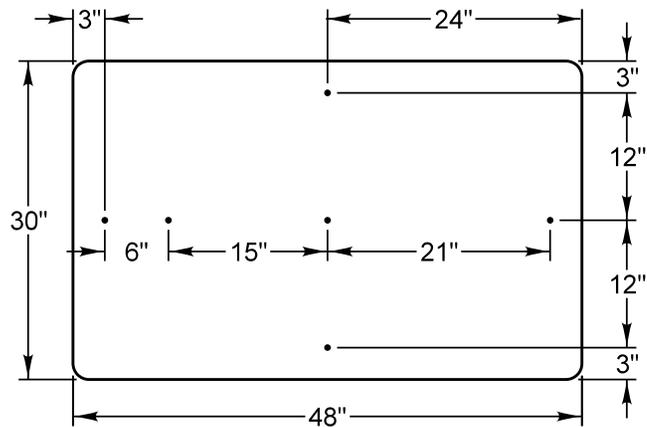
**30" x 36"**

Drill All  $\frac{5}{16}$ " Holes

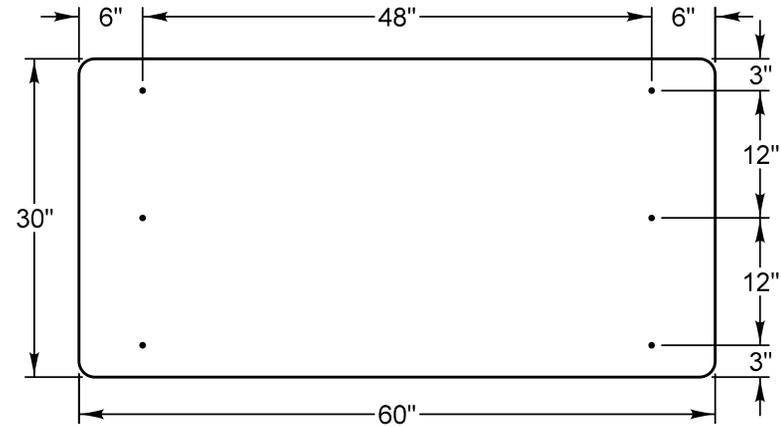
All Corners Cut with  
 $1\frac{1}{2}$ " Radius



**30" x 42"**

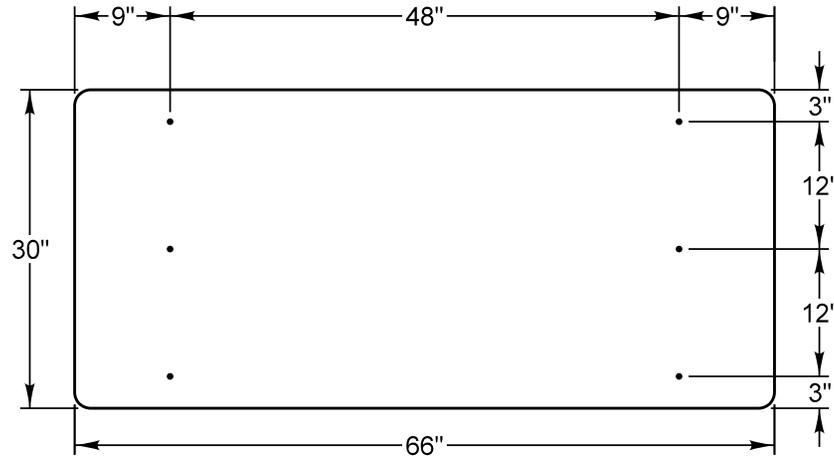


**30" x 48"**



**30" x 60"**

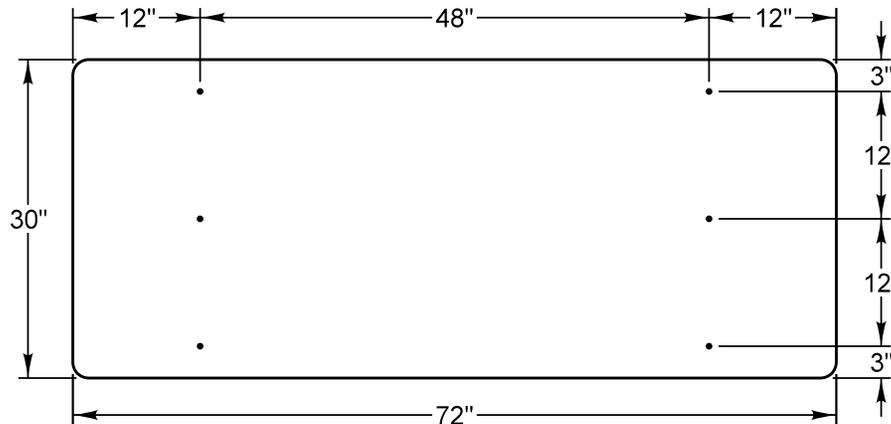
**30" (WIDTH) RECTANGULAR BASES (BLANKS)**



30" x 66"

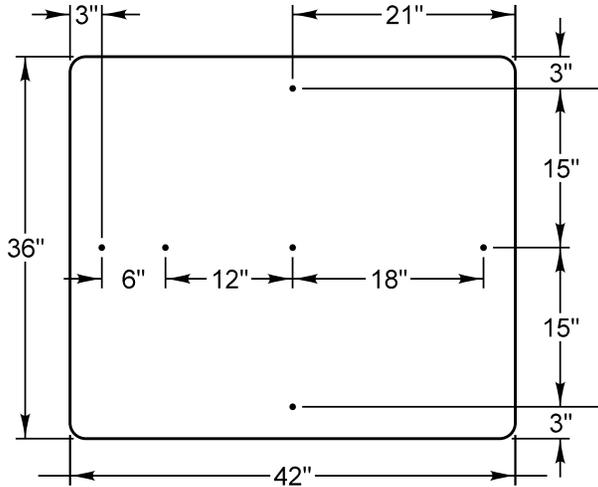
Drill All  $\frac{5}{16}$ " Holes

All Corners Cut with  
 $1\frac{1}{2}$ " Radius

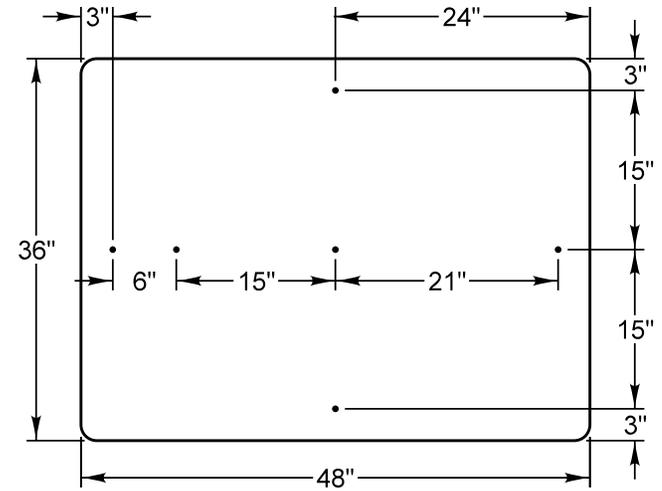


30" x 72"

## 30" (WIDTH) RECTANGULAR BASES (BLANKS)



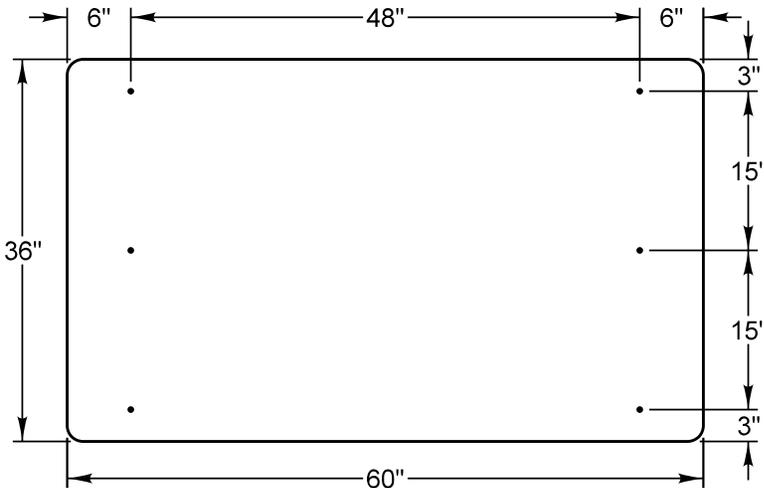
**36" x 42"**



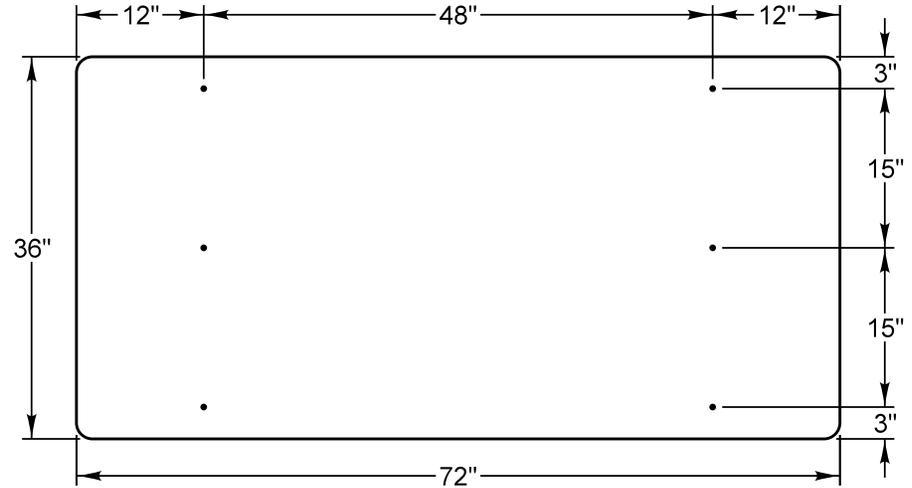
**36" x 48"**

Drill All  $\frac{5}{16}$ " Holes

All Corners Cut with  
 $1\frac{1}{2}$ " Radius



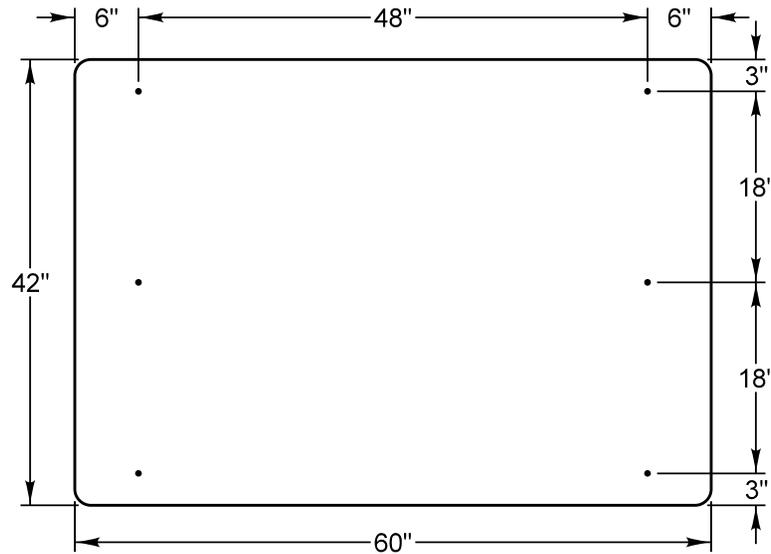
**36" x 60"**



**36" x 72"**

**36" (WIDTH) RECTANGULAR BASES (BLANKS)**

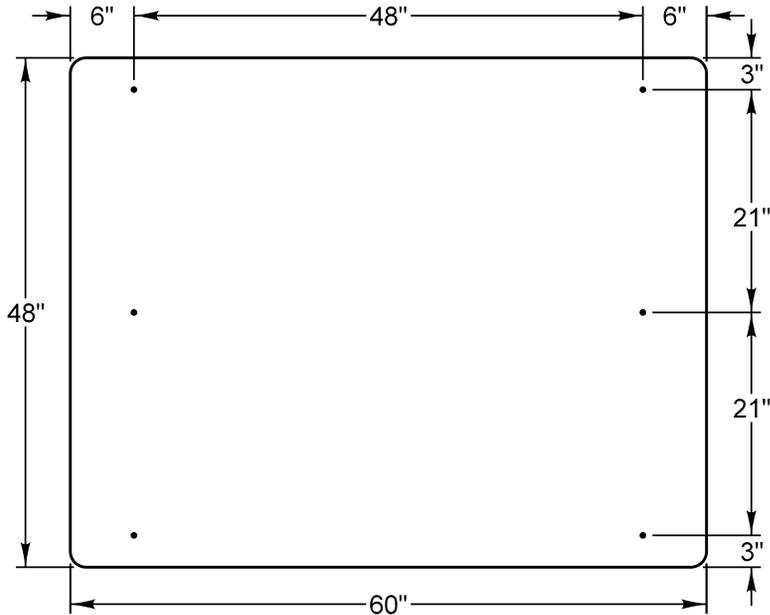
42" x 60"



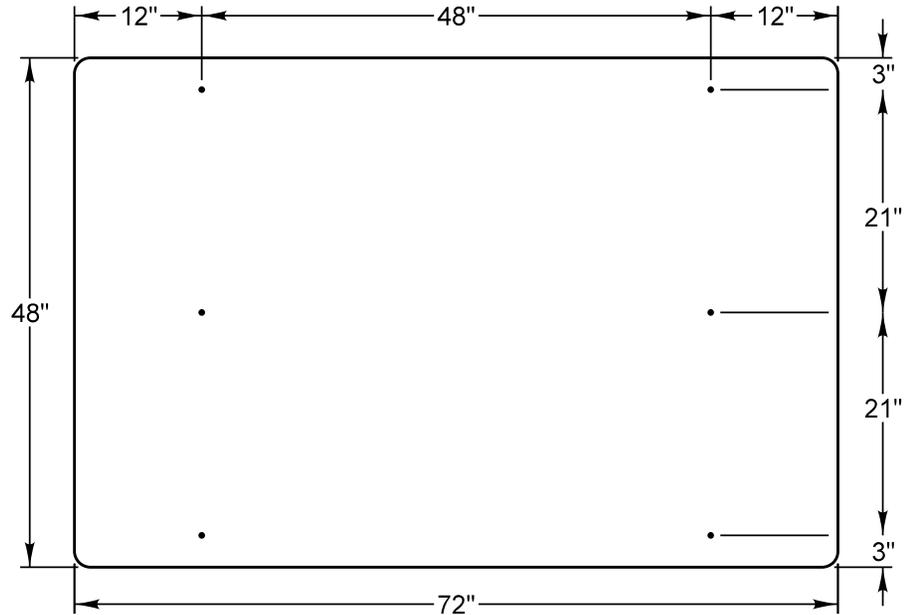
Drill All  $\frac{5}{16}$ " Holes

All Corners Cut with  
 $1\frac{1}{2}$ " Radius

48" x 60"

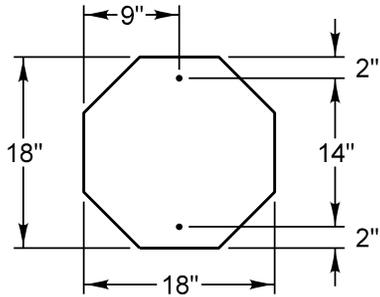


48" x 72"



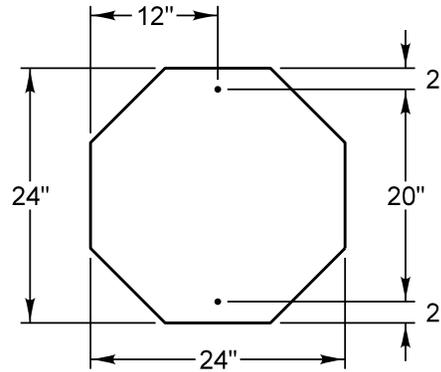
**42" & 48" (WIDTH) RECTANGULAR BASES (BLANKS)**





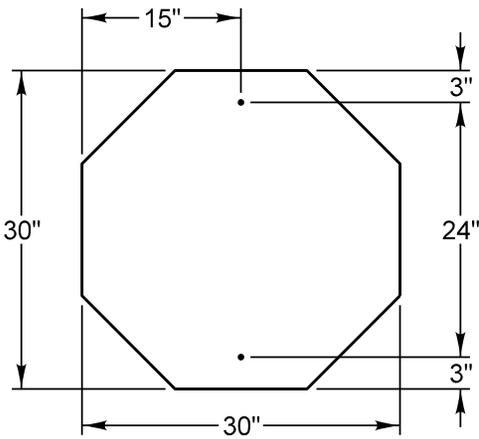
18" x 18"

Drill All  $\frac{5}{16}$ " Holes

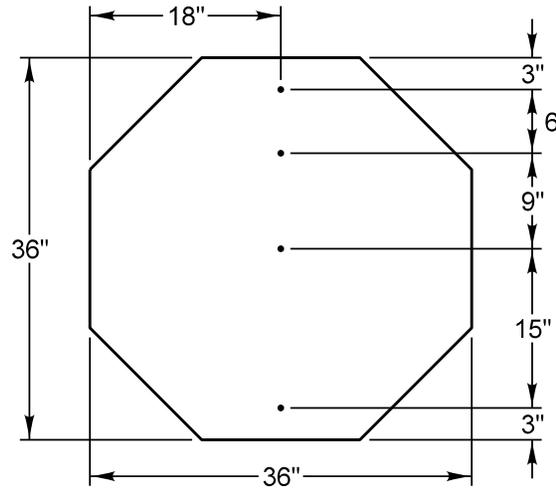


24" x 24"

All Corners Cut with  
 $1\frac{1}{4}$ " Radius

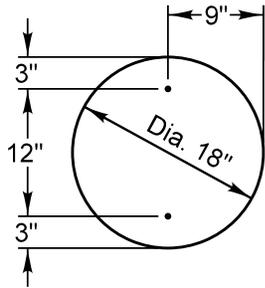


30" x 30"

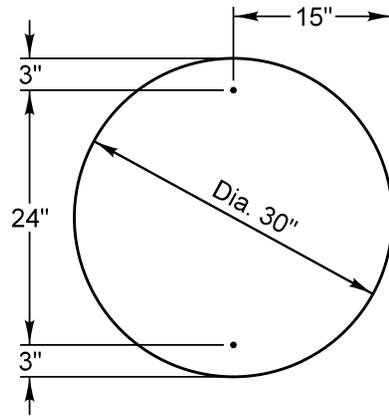


36" x 36"

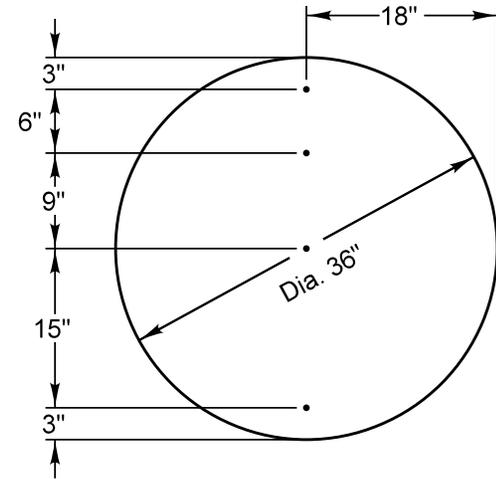
## OCTAGONAL BASES (BLANKS)



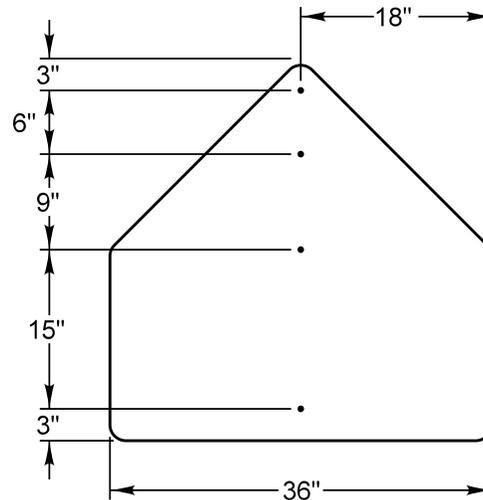
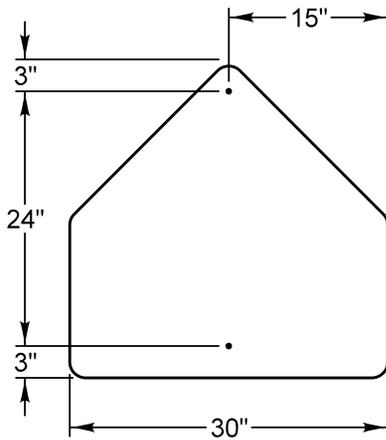
18" Diameter



30" Diameter



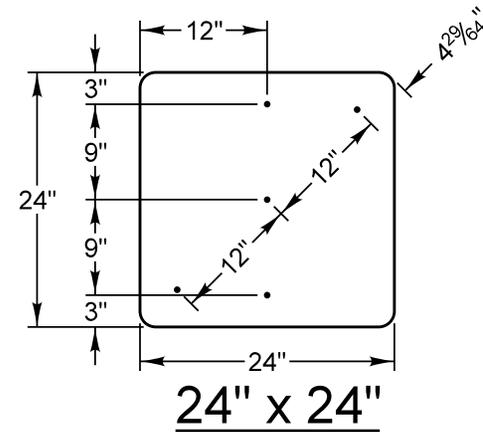
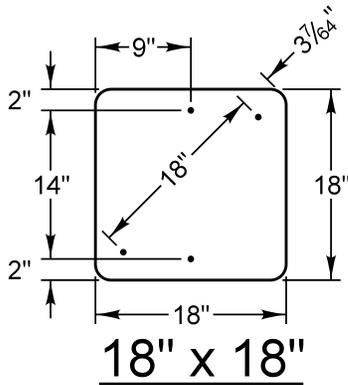
36" Diameter



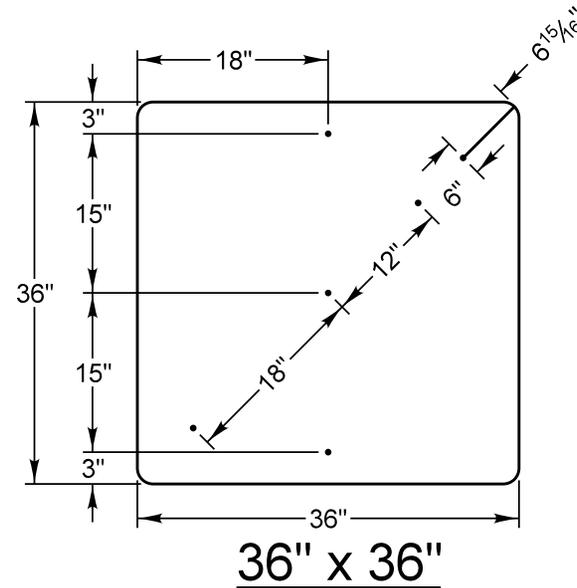
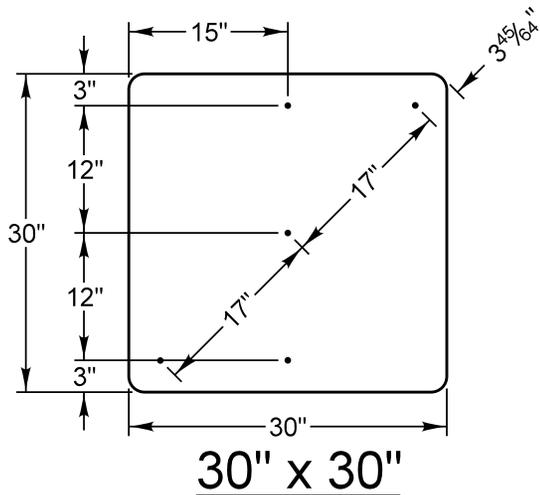
Drill All  $\frac{5}{16}$ " Holes

All Corners Cut with  
 $1\frac{1}{2}$ " Radius

# CIRCULAR & PENTAGONAL BASES (BLANKS)



Note: These Blanks may be used in a Square or Diamond Configuration



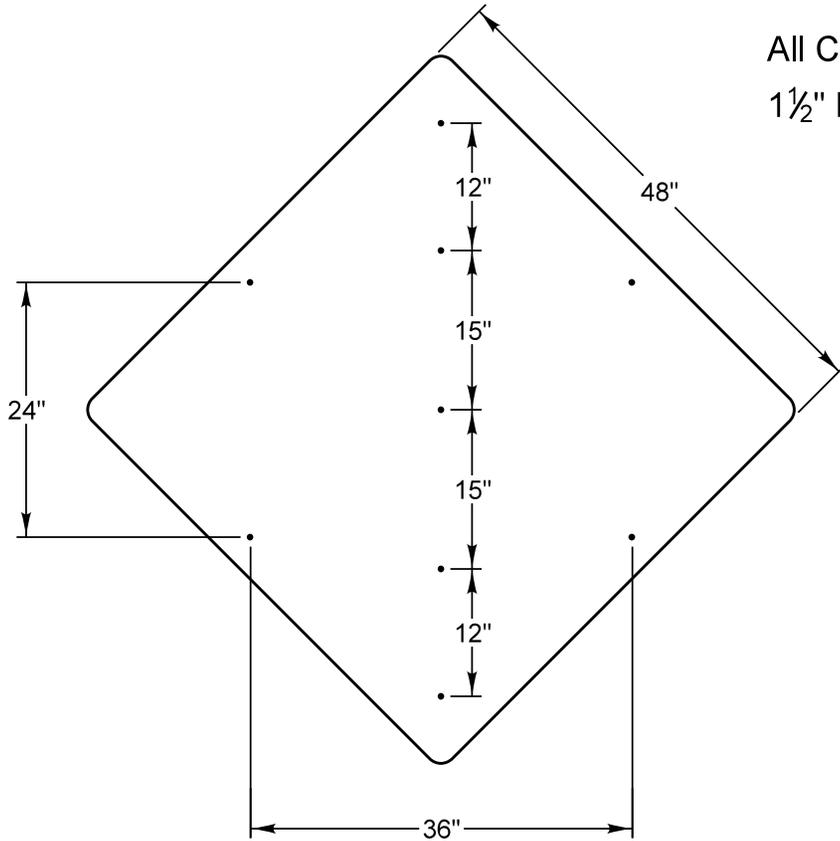
Drill All  $\frac{5}{16}$ " Holes

All Corners Cut with  $1\frac{1}{2}$ " Radius

## SQUARE / DIAMOND BASES (BLANKS)

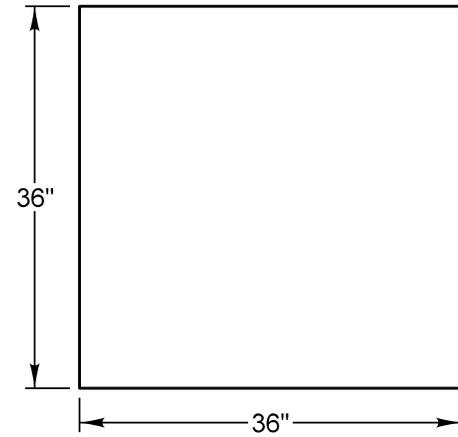
Drill All  $\frac{5}{16}$ " Holes

All Corners Cut with  
 $1\frac{1}{2}$ " Radius



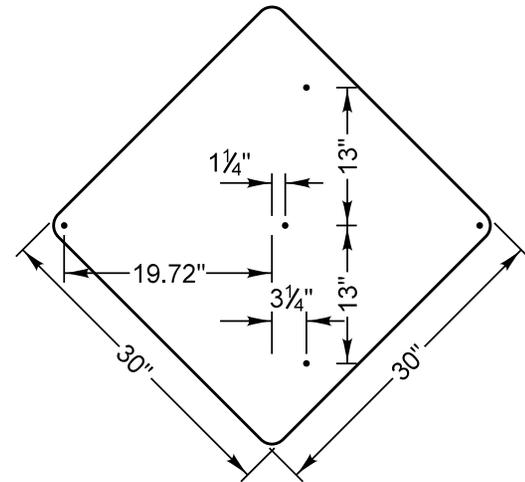
48" x 48" DIAMOND

(9 Holes)



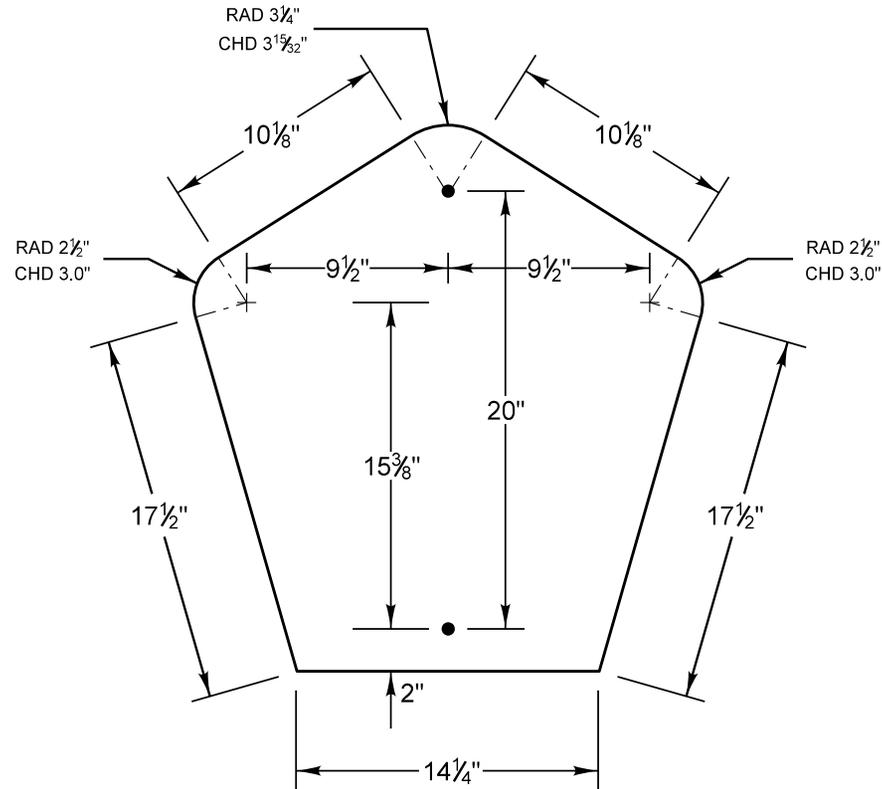
36" x 36"

NO CORNERS / NO HOLES



30" x 30"

**MISCELLANEOUS BASES (BLANKS)**



Drill All  $\frac{5}{16}"$  Holes

Note: There are only 2 holes in this blank - down the center at a 20" spacing.

24" COUNTY  
SHIELD DETAIL

**MISCELLANEOUS BASES (BLANKS)**