

BASEBALL CLAY REFERENCE MANUAL



Best in the field – your industry leader providing
the highest quality baseball field products.

1.800.950.2555 | marcoclay.com

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“MAR-CO IS AN INDUSTRY LEADER IN PROVIDING THE HIGHEST QUALITY PRODUCTS FOR BASEBALL FIELDS.”

INTRODUCTION

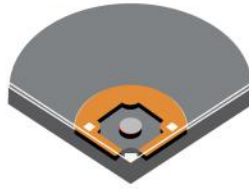
As an industry leader in baseball clay installation, Mar-Co is committed to providing baseball experts with the resources needed to build the field of their dreams. We pride ourselves on building and maintaining strong relationships. Whether you're an architect, dealer or contractor, this guide will be a valuable reference at all stages of your project. Everything you need to know is here - detailed information on clay product options, professional installation guides, proper maintenance practices, and what to expect from your partnership with Mar-Co.

The background of the entire page is a photograph of several large white bags of MAR-CO -CLAY- stacked on a baseball field. The bags are in the foreground and middle ground, with a blurred baseball field and trees in the background. The bags have a red and black logo that reads "MAR-CO" in a stylized font with "CLAY" underneath. The text "Ce sac est fait de matière recyclée" is visible on the bags.

SECTION ONE:

OUR PRODUCTS

INFIELD MIXES



Every Mar-Co infield mix is a controlled blend of a variety of clays, sands, and baked clay. We crush and screen our products with intense quality control, ensuring a uniform particle size for each infield mix - whether it's for occasional recreational play or heavy daily use.



There's no guesswork when it comes to repair and maintenance if you start with an original Mar-Co infield mix. Simply add mix to the infield as needed without worrying about layers or blending in conditioners. There are various mixes designed for your distinct requirements, all with firm footing, good water management and a professional look.



RESOURCES

ADVANTAGES OF MAR-CO INFIELD MIXES - PG. 30



INFIELD MIXES

	WASHINGTON BALL MIX	15 STANDARD	15 LIGHT	15 FIRM	20 STANDARD	20 LIGHT	20 FIRM	ERIE BALL MIX	SPORT SAND *
MAINTENANCE	LOW	MEDIUM	LOW	HIGH	MEDIUM	LOW	HIGH	LOW	LOW
PARTICLE SIZE	<3/16"	<1/8"	<1/8"	<1/8"	<3/16"	<3/16"	<3/16"	<1/8"	<3/16"
MIXTURE SAND - SILT - CLAY									N/A
POUNDS/ CUBIC YARD	2,650	2,300	2,300	2,300	2,300	2,300	2,300	2,650	2,600
KILOGRAM/ CUBIC METRE	1,572	1,364	1,364	1,364	1,364	1,364	1,364	1,572	1,542
DRAINAGE	HIGH	GOOD	HIGH	MODERATE	GOOD	HIGH	MODERATE	GOOD	HIGH
FOOTING	STABLE	FIRM	STABLE	VERY FIRM	FIRM	STABLE	VERY FIRM	STABLE	STABLE
MOISTURE RETENTION	GOOD	GOOD	GOOD	HIGH	GOOD	GOOD	HIGH	GOOD	GOOD
COLOUR	RED	RED	RED	RED	RED	RED	RED	RED	BROWN
APPLICATION	BASEBALL/ SOFTBALL	BASEBALL	BASEBALL/ SOFTBALL	BASEBALL -PRO	BASEBALL	BASEBALL/ SOFTBALL	BASEBALL -PRO	BASEBALL/ SOFTBALL	BASEBALL/ SOFTBALL

* Sport sand is a 3/16" blend designed for sub-surface requirements. It can be used as a base material for all applications, including infield skin, home plate area, pitcher's mound, and warning tracks.

SPEC SHEETS - INFIELD MIXES

WASHINGTON
BALL MIX - PG. 32

ERIE BALL MIX - PG. 33

15 LIGHT - PG. 34

20 LIGHT - PG. 35

15 STANDARD - PG. 36

20 STANDARD - PG. 37

15 FIRM - PG. 38

20 FIRM - PG. 39

SPEC SHEET - BASE

SPORT SAND - PG. 40

SPEC SHEET - CONDITIONER

DIAMOND CLAY
CONDITIONER - PG. 41

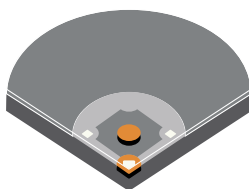


CLAY CONDITIONERS AND AMENDMENTS

If your goal is to improve an existing infield, our Material Assessment Program (M.A.P.) (pg. 10) can identify the target amendment needed. These target amendments offer a range of solutions from alleviating compaction to introducing binders to firm up the material. Whether your field is too hard, too soft, too wet, or too dry, we have a conditioner to get you the surface you want.

Our original Mar-Co infield mixes are uniquely pre-mixed with conditioners. No amendment or conditioning required!

PACKING CLAY



Our packing clays make it simple to both build and repair pitcher's mounds and batter's boxes. These ready-to-use products are moisturized and packaged in sealed bags, allowing for easy handling and application right out of the bag. Once installed the clay will become firm and durable for daily use. Several varieties of packing clay are available to meet the specific demands of your field, and they can be ordered in small bags or bulk depending on the project requirements.

	REDIMOUND	GUMBO GREY	REDIBRICK	REDIKIT	HOME BASE BLEND
PARTICLE SIZE	8 MESH	8 MESH	8 MESH	8 MESH	<1/8"
POUNDS/ CUBIC YARD	2,200	2,500	4,080	3,260	2,400
KILOGRAMS/ CUBIC METRE	1,305	1,483	2,420	1,930	1,423
COLOUR	TERRA COTTA RED	GREY/BLUE	TERRA COTTA RED	TERRA COTTA RED	TERRA COTTA RED
APPLICATION	BASEBALL / SOFTBALL	BASEBALL - PRO	BASEBALL / SOFTBALL	BASEBALL / SOFTBALL	BASEBALL - PRO
DESCRIPTION	MOISTURIZED RAW CLAY	MOISTURIZED RAW CLAY	MOISTURIZED COMPRESSED CLAY	KIT WITH REDIMOUND AND REDIBRICK BAGS	CLAY MIX FOR HOME PLATE AREA
SOLD IN	BAGS, 40LBS. SUPER SACKS, 2000LBS OR 3000LBS.	BAGS, 40LBS. SUPER SACKS, 2000LBS OR 3000LBS.	BAGS, 8 BRICKS/BAG. BULK, 320 BRICKS PER SKID.	26 BAGS OF REDIMOUND AND 24 BAGS OF REDIBRICK. 1 SKID.	BAGS, 40LBS. SUPER SACKS, 2000LBS OR 3000LBS.





SPEC SHEETS

REDIMOUND (MOUND CLAY) - PG. 42

REDIBRICK (FIELD BRICK) - PG. 43

HOME BASE BLEND (MOUND CLAY)
- PG. 44

GUMBO GREY (MOUND CLAY) - PG. 45

RESOURCES

REDIKIT BROCHURE - PG. 46

REDIKIT INSTRUCTION SHEET - PG. 48

INSTALLATION VIDEO



BATTER'S BOX
INSTALLATION VIDEO

marcoclay.com/batters-box

WARNING TRACK MATERIALS



Our granular warning track materials are low maintenance products that drain incredibly well. Containing no binding agents, these materials retain their texture through the sun and rain. They will not harden when dry or become muddy when wet. Their particle size and gritty texture give a slight crunch under foot. All these properties make them ideal for the warning track.

	CLAY TRACK SURFACER - STANDARD	RUNNING TRACK SURFACER	CLAY TRACK SURFACER - COURSE
MAINTENANCE	LOW	LOW	LOW
PARTICLE SIZE	<3/16"	<3/16"	<3/8"
MIXTURE SAND - SILT - CLAY			
POUNDS/ CUBIC YARD	2,200	2,300	2,200
KILOGRAM/ CUBIC METRE	1,305	1,364	1,305
DRAINAGE	HIGH	GOOD	HIGH
FOOTING	STABLE	FIRM	STABLE
MOISTURE RETENTION	GOOD	GOOD	GOOD
COLOUR	TERRA COTTA RED	TERRA COTTA RED	TERRA COTTA RED
APPLICATION	WARNING TRACK	WARNING TRACK	WARNING TRACK

SPEC SHEETS

**CLAY TRACK SURFACER
STANDARD - PG. 50**

**RUNNING TRACK SURFACER
- PG. 51**

**CLAY TRACK SURFACER
COURSE - PG. 52**



MATERIAL ASSESSMENT PROGRAM



TOO WET, TOO DRY, TOO HARD, TOO SOFT?

Keeping an infield in top shape is often hit or miss. Our free Material Assessment Program (M.A.P.) will determine the target amendment to add to an existing mix to achieve a desired surface.



STEP 1: SAMPLING

Retrieve a sample of existing field material and forward it to us for an evaluation.



STEP 2: ANALYSIS

We analyze the sample in one of our labs to determine the makeup of the field and identify its unique needs.



STEP 3: RECOMMENDATIONS

We contact you with a set of recommendations based on the lab results of the field sample. Recommendations for both product and application.



APPLYING OUR PRODUCTS

Providing high-quality products that have been proven on the field is only the first step in our commitment to Mar-Co partners. We also ensure easy installation and repair by providing step-by-step instructions and specifications for every product.

DRAWINGS

**HOME PLATE
SPECIFICATIONS** - PG. 53

**INFIELD SKIN
CROSS-SECTION** - PG. 58

**INFIELD GRADING
DETAILS** - PG. 54

**WARNING TRACK
CROSS-SECTION** - PG. 59

**PITCHERS MOUND
SPECIFICATIONS** - PG. 55

**LITTLE LEAGUE BASEBALL
SPECIFICATIONS** - PG. 61

**BASEBALL FIELD
SPECIFICATIONS** - PG. 56

**SOFTBALL FIELD
SPECIFICATIONS** - PG. 62

**BASEBALL INFIELD
SPECIFICATIONS** - PG. 57

**SOFTBALL
PITCHER'S PAD** - PG. 63

INSTALLATION INSTRUCTIONS

**REDIKIT INSTRUCTION
SHEET** - PG. 48

**INFIELD AND WARNING TRACK
INSTALLATION** - PG. 60

**PITCHER'S MOUND
INSTALLATION** - PG. 73

**HOME PLATE
INSTALLATION** - PG. 71



HELPFUL TIPS - INFIELD PRODUCT TONNAGE CALCULATIONS

TYPE OF FIELD	BASE LENGTH	PITCHING DISTANCE	PITCHING HEIGHT	INFIELD ARC	TONS/INCH	
					15 & 20 SERIES	WASHINGTON & ERIE
OFFICIAL BASEBALL WITH GRASS INFIELD	90'	60'6"	10"	95'	53.50	60.50
OFFICIAL BASEBALL WITHOUT GRASS INFIELD	90'	60'6"	10"	95'	84.50	95.50
PONY BASEBALL WITH GRASS INFIELD	80'	54'	8"	80'	39.00	44.00
PONY BASEBALL WITHOUT GRASS INFIELD	80'	54'	8"	80'	46.50	52.50
PEEWEE WITH GRASS INFIELD	75'	50'	6"	80'	39.00	44.00
PEEWEE WITHOUT GRASS INFIELD	75'	50'	6"	80'	46.50	52.50
SLO-PITCH	65'	46'	N/A	65'	43.00	48.50
LITTLE LEAGUE WITH GRASS INFIELD	60'	46'	6"	50'	18.00	20.00
LITTLE LEAGUE WITHOUT GRASS INFIELD	60'	46'	6"	50'	31.00	35.00
SOFTBALL	60'	46'	N/A	60'	38.50	43.50
SOFTBALL	60'	46'	N/A	75'	52.00	58.50

NOTE: Volumes include a 30% compaction rate.

Measurements used are standard regulation size for each respective league. For custom designs refer to the "Material Requirements Infield Skin" chart for help in calculating the square footage of an infield.

CALCULATIONS

METRIC CALCULATIONS - PG. 65

We also provide a Material Calculator at www.marcoclay.com
Please contact your local dealer to request access privileges.



HELPFUL TIPS - MATERIAL REQUIREMENTS

INFIELD SKIN AT 1 INCH DEPTH

SQUARE FEET OF INFIELD	15 & 20 SERIES INFIELD MIXES	WASHINGTON & ERIE BALL MIXES
1000	4.75 TONS	5.2 TONS
2000	9.25 TONS	10.4 TONS
3000	13.75 TONS	15.6 TONS
4000	18.5 TONS	20.8 TONS
5000	23.0 TONS	27.5 TONS
6000	27.75 TONS	31.2 TONS
7000	32.25 TONS	36.4 TONS
8000	37.0 TONS	41.6 TONS
9000	41.5 TONS	46.8 TONS
10,000	46.0 TONS	52.2 TONS

NOTE: Volumes include a 30% compaction rate.

PITCHER'S MOUND

MOUND RADIUS	REDIMOUND CLAY PER INCH OF HEIGHT
5'	0.25 TONS
8'	0.6 TONS
9'	0.75 TONS

HOME PLATE AREA

HOME BASE RADIUS	HOME BASE BLEND AT 1 INCH DEPTH
10'	1.75 TONS
13'	3.0 TONS

NOTE: Pitchers Mound and Home Plate Area volumes include a 50% compaction rate.



CALCULATIONS

METRIC CALCULATIONS - PG. 67

GENERAL FIELD MAINTENANCE



- ✓ Weekly maintenance will help keep a field in top form and ensure it has a long-lasting life.
- ✓ Keeping a consistent moisture level is the most important part of field maintenance. Check the infield clay regularly and spray with water if it is beginning to dry out. Overnight is the best time to moisturize the field as clay can soak up water without drying out. Examine the field after a rainfall to confirm it is draining properly.
- ✓ It is especially important to keep the pitcher's mound and batter's boxes at a good moisture level. An easy way to check if this material is at an appropriate moisture level is with a jackknife test. Simply insert a jackknife blade into the mound clay and remove. If the blade does not penetrate the surface it is too dry. If the clay sticks to the blade it is too wet. Tarping these areas will help retain correct moisture levels.
- ✓ Fill low spots on the infield clay with surrounding material or add material if extremely low.
- ✓ Examine grass edges for loose material and rake out to prevent a lip from forming.
- ✓ Repair holes in the pitcher's mound and batter's boxes with RediMound. Sweep out debris, scratch the surface with a rake, and spray with water. Allow the clay time to absorb the water, then add RediMound and compact with a tamp until desired elevation is achieved.
- ✓ Groom infield clay with a nail drag to break up and mix the material. Rake around the batter's boxes.

RESOURCES

BASEBALL INFIELD MAINTENANCE - PG. 68

See "Baseball Infield Maintenance" document for more information



A close-up photograph of a baseball player's legs and feet. The player is wearing white pants with a black stripe down the side and black cleats with white accents. They are standing on a dirt field, and a chain-link fence is visible in the background. The lighting is bright, suggesting a sunny day.

SECTION TWO:

WHAT MAKES OUR
PRODUCTS UNIQUE

PLAY MORE. FIX LESS.



At Mar-Co, we have one focus: designing and producing performance-based clay products for great baseball fields. More than 25 years of experience installing and repairing fields across North America has established us as an industry leader. Every product is designed with both the player and groundskeeper in mind to deliver the **MAR-CO ADVANTAGE**, which includes:



EASY INSTALLATION AND REPAIR

- User friendly products with simple setup
- Low maintenance. Our infield mixes require no conditioners, mixing or rolling
- Pre-conditioned infield mixes are easy to groom. They create firm surfaces but break up nicely when raked or groomed aggressively.
- Packing clays come pre-moisturized and ready to install right out of the bag



FASTEST RAIN RECOVERY

- Infield mixes absorb and percolate water
- Less repair time required to get field play ready after a rain
- Fewer missed games because products drain water well



HIGH DURABILITY AND SAFETY

- Products last a lifetime with simple maintenance practices
- Natural products that do not disintegrate
- Infield mixes have good traction even when wet
- Particle balance of infield mixes gives players a great slide



SOLID RETURN ON INVESTMENT

- Less money spent on conditioners and repairs
- Fewer rainouts means happy customers and more revenue
- Quality professional field keeps players safe avoiding injuries and/or lawsuits
- Complimentary Materials Assessment Program (M.A.P.) (pg. 10) avoids unnecessary product purchases and the need to replace entire field



RESOURCES

ADVANTAGES OF MAR-CO CLAY INFIELD MIXES - PG. 30



SECTION THREE:

COMPANY OVERVIEW

FROM FAMILY BUSINESS TO INDUSTRY LEADERS



WHO WE ARE

Mar-Co is an industry leader in providing the highest quality clay products for baseball fields. We develop, design, produce and distribute clay aggregates and clay blends that make it easy to build and maintain professional looking fields. Our passion is delivering solutions for every kind of baseball field challenge, whether your players are pros or little league. We're committed to maximizing an investment in our products by offering superior customer service and support throughout the lifetime of each baseball field.

OUR VALUES

Mar-Co is built on integrity. Our clay products enhance communities across North America by helping people construct and maintain high-quality baseball fields for all types of players. We also take pride in creating strong partnerships across the Mar-Co community of clients, employees, suppliers and shareholders. Our clients come first, and we're dedicated to their success. Our employees are our strength, and we're committed to their safety and satisfaction. Our dealers and distributors represent us in the community, and we work hard to support their professionalism and profitability. Finally, our shareholders are essential to our continuing success, and we strive to provide a reasonable continuing return on their investment.

OUR HERITAGE

With third-generation roots in the clay industry, Mar-Co has a solid foundation of knowledge and experience. We began as a family business producing clay pipes and brick, then shifted to high-quality sports clay products in 1995. To keep pace with Mar-Co's growing customer base, we constructed a production plant at our Ontario location in 2009. As we developed and improved our product lines, we also expanded the business to include sports field contracting, where we advise on everything from field tune-ups to complete field constructions. Our market now extends across Canada as well as the United States, with a location in Fredericktown, Ohio. Mar-Co continues to innovate in the development of niche clay products while maintaining our position as a North American industry leader in the construction and renovation of baseball fields.

OUR TEAM

Mar-Co has grown over the years since we began as a family business, but every team member upholds our original dedication to superior products and customer service. The core Mar-Co team is located in Ontario, Canada, with a U.S. branch located in Fredericktown, Ohio. Our dealers and distributors can be found across North America. Whether you're working with an employee, sales rep or dealer, you can count on the same high level of knowledge and support.



SECTION FOUR:

HOW WE'LL WORK TOGETHER

BUILT ON STRONG PARTNERSHIPS

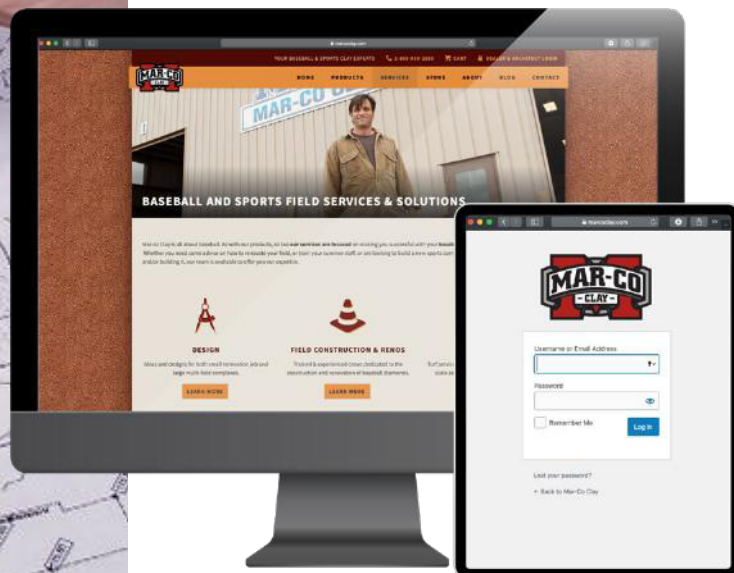
HOW WE WORK WITH ARCHITECTS

Architects and designers are integral to the decision making process. We have information and know-how to help answer any project questions.



WE PROVIDE:

- Easy access to information about our products
- Dealer portal (including a material calculator, design drawings, product data sheets and promotional content)
- Product support and a guarantee of our products' performance
- Direct line of communication with the manufacturer
- Access to Mar-Co product reps for questions and site visits
- Product samples direct from the manufacturer
- Collaboration on challenging projects that require creative solutions
- Specs, drawings and installation instructions





HOW WE WORK WITH **CONTRACTORS**

Contractors get the job done. We have the resources and experience to help at whatever stage of the project.

WE PROVIDE:

- In-person training on installation through local dealer
- Access to experienced Mar-Co product reps to help with troubleshooting
- Instructional content on installation and maintenance
- Material recommendations for specific applications



HOW WE WORK WITH DEALERS

Mar-Co dealers and distributors represent us in the wider community, and their success is our priority. No matter where they're located, Mar-Co dealers benefit from the more than 25 years of experience constructing and renovating baseball fields that has made us an industry leader.

WE PROVIDE:

- Access to dedicated Mar-Co product reps with extensive expertise, experience and knowledge of the products
- On-site training of sales reps and ongoing support
- Maintenance clinics to educate customers on proper usage and maintenance of Mar-Co products
- Dealer portal (including a material calculator, design drawings, product data sheets and promotional content)
- Leads generated from digital marketing and tradeshows
- Marketing and sales literature





SECTION FIVE:

FAQs

YOU HAVE QUESTIONS, WE HAVE ANSWERS.



\$ COST:

1. Q: What Mar-Co Clay products are the most economical?

A: Washington Ball Mix is our most popular product because it delivers the best play for the best price. It is the standard in baseball infield mixes, offering low maintenance and repair costs, optimal moisture control, and a professional look. Erie Ball Mix is another economical option.

2. Q: Why do your products cost more than others? What makes them different than cheaper alternatives?

A: Mar-Co's products perform better and have proven results. Our products are engineered with precise screening and blending procedures to deliver professional results.

3. Q: How much does Mar-Co cost per ton?

A: Since freight costs have a big influence on the cost of delivered products, call us at 1-800-950-2555 or e-mail sales@marcoclay.com to find a nearby dealer to provide a delivered price.

4. Q: What if I can only afford one truckload?

A: You can amend a field one truckload at a time for incremental improvement over several seasons. We recommend an initial MAP test to determine what amendment you need.



MAINTENANCE:

5. Q: What Mar-Co Clay products are easiest to maintain?

A: Erie Ball Mix and Washington Ball Mix are the easiest infield mix products to maintain.

6. Q: What maintenance does Mar-Co Clay require? Can you help show us the correct way to maintain our infield?

A: Our [Baseball Infield Maintenance](#) document (pg. 68) has grooming patterns for infield mixes and best common practices. We also have step-by-step maintenance guides for mound clays and batter's boxes. Contact your local dealer to arrange a baseball maintenance clinic for hands-on learning.

7. Q: How long will the clay in the newly built batter's boxes and mound last?

A: The durability depends on the amount of use and your dedication to a solid maintenance plan. The landing area of the mound and cleat marks in the batter's boxes will require on-going maintenance, but a solid base of clay makes the repair simple, effective, and can be completed with a handful of material. Controlling the moisture levels on these areas with the use of tarps & sprinklers can greatly improve the durability as well. We provide every customer with simple maintenance instructions.

8. Q: Will installing Mar-Co Clay mixes or amendments keep me from having to use drying agents?

A: Mar-Co clay mixes eliminate or greatly reduce the need for drying agents, provided you maintain your field with regular dragging/raking after practices and games. This fills in low spots and prevents puddles from forming.



PRODUCT:

9. Q: It's just brick dust, right?

A: Baked or vitrified clay (brick dust) is one of the ingredients in most of our mixes, but Mar-Co Clay's infield mixes are much more than that. They are a scientifically balanced mix of sand, silt, clay, and baked clay that improves drainage and provides a great, safe playing surface.

10. Q: Can I use other materials on top of 15 or 20 series?

A: Yes, Washington Ball Mix and Erie Ball Mix combine well with 15 and 20 series. Just be sure to blend thoroughly the first time you add them.

11. Q: Can I add Washington Ball Mix to my existing infield?

A: Yes, but it would be best to do a [MAP test \(pg. 10\)](#) first to make sure that the infield material is compatible.

12. Q: How do I know which mix to use?

A: Things to consider when choosing an infield mix are field usage and maintenance requirements. Mixes with higher clay content deliver the best performance for higher levels of play, but will require more maintenance. Refer to the comparison chart in our Infield Mixes (pg. 4) section to help determine the correct mix for your project.

13. Q: What is the difference between Washington Ball Mix and Diamond Clay Conditioner?

A: Washington Ball Mix is an infield mix - a blend of sand, clay silt and baked clay. It will set up and pack together. Diamond clay is not an infield mix. It is a custom amendment that drains well and will act as an absorbent and conditioner to your infield.

14. Q: Where is my material shipping from and how quickly can I get it?

A: Shipping times depend on your location. Please call us at 1-800-950-2555 or e-mail us at sales@marcoclay.com and we will direct you to your closest dealer. We carry large quantities of bulk inventory so generally we can deliver relatively quickly.

15. Q: Can I get quantities less than dump truck loads?

A: Yes, there are other packaging options available. We provide product in 2,000 and 3,000 lb Super Sacs, as well as 40 lb bags.

**16. Q: The clay percentage content doesn't match my architect specification.
Why is your clay content so low?**

A: Unlike some of our competitors, Mar-Co infield mixes do not rely solely on clay to create a stable, firm footing. The range of particle sizes and the blend of products work together to form a stable footing. We do have mixes such as 15 Standard or 15 Firm with high clay content, but only recommend these for professional fields with a maintenance crew and irrigation control.



BUILD & REPAIR:

17. Q: Do I really need loose mound clay when installing brick?

A: Yes, it is essential below and above the brick. Add RediMound to fill in any spaces between the bricks and to make adjustments to the final grade.

18. Q: What is the minimum thickness of Washington Ball Mix for a new infield?

A: A minimum of 3 inches of depth is required. We recommend a depth of 4 inches for infield mixes.

19. Q: How deep should infield and warning track be put down?

A: For infield mixes we recommend a depth of 4 inches. For warning tracks we recommend a depth of 3 inches.

20. Q: How many bricks does it take to build a pitcher's mound and batter's box?

A: Following our RediKit design, it takes 192 bricks to build a pitcher's mound and 192 bricks to build 2 batter's boxes (one on each side of the home plate). See our [RediKit Instruction Sheet \(pg. 46\)](#) for brick layout and additional information.



GENERAL QUESTIONS:

21. Q: How much material do I need to build a mound?

A: It generally takes 7-8 tons of mound clay to build a mound with a 9' radius and a 10" height. However, it will vary depending on the layout of the diamond and the difference in elevation between the pitching mound and home plate areas.

22. Q: How much material do I need to repair the landing area of my mound?

A: Approx 1-2 tons of mound clay & bricks. Depends on how much you need to build it up. If it is mainly the plateau and landing area that need to be reshaped, the [RediKit \(pg. 44\)](#) is a 1-skid solution designed for this repair.

23. Q: How should we apply Mar-Co mix to our field?

A: Always make sure the base or existing infield mix is properly graded for good surface drainage before adding infield mix. Apply the mix as evenly as possible, ideally with a top dresser. Extra care must be taken to ensure an even grade if dropping material in a pile and spreading with a blade.

24. Q: When is the best time to build/fix fields?

A: Our approach is always to minimize the disruption of play. We recommend working in the off-season. Major repairs & renovations are best done in the summer or fall.

25. Q: How do I know what's on my field now?

A: If you do not have any records on your field's material, we have the expertise and technology to test an existing mix and determine it's composition through our [Material Assessment Program \(MAP\) \(pg. 10\)](#).

26. Q: What is the difference between bricks and mound clay?

A: They are both made up of the same clay material. Bricks are tightly compacted together and are meant to be installed on the pitcher's mound and batter's boxes. This gives players a firm ground to pitch and swing from. Mound clay is needed to securely install the bricks and can be used to repair the wear areas on pitching mounds and batter's boxes.

DIDN'T ANSWER YOUR QUESTION?

CONTACT US AT:
1-800-950-2555
sales@marcoclay.com

OR VISIT US AT:
marcoclay.com





GET THE HOME FIELD ADVANTAGE.



THE MAR-CO ADVANTAGE

INFIELD MIXES

*Recovers from
rain quicker
than any other
clay product*

*Product is
premixed with
conditioner
throughout*

*Fast, easy
installation &
maintenance*

*Provides
constant water
management*

*Professional
looking field;
outstanding
color*

Features

Blended with Conditioner Throughout

Other competitive products need conditioner to perform well, whereas all Mar-Co infield products already have conditioner mixed throughout the clay, providing a blended product at the outset. No further mixing or spreading required.

And because our clay is conditioned throughout, you get:

■ ***Moisture Control***

All Mar-Co infield products include absorbing clays that provide constant water management, whereas most other supplier's products require added conditioners to achieve moisture control.

■ ***Percolation***

All Mar-Co infield mixes provide immediate percolation. Most competitors provide little or no percolation.

■ ***Smooth Playing Surface & Good Traction***

Most competitive clay mixes have a slippery surface when wet. Mar-Co's uniform blended mix is crushed fine enough to provide a smooth playing surface, while providing the traction you need if the surface becomes wet.

■ ***Easier Repairs***

Refilling low areas on most other materials with conditioner is complicated in maintaining the originals spec, as removal of the conditioner and adding new conditioner is required. With Mar-Co products you simply continue with the original pre-blended mix.

Lighter Material

Most competitive infield mixes average 3000 lbs/cu. yd. compared to 2300 to 2600 lbs/ cu. yd. for Mar-Co infield clays, requiring less material for your field.

Benefits

- **Save time and money.**
- **No additional conditioners or mixing required during construction or maintenance.**
- **Saves money.**
- **No additional moisture control products needed.**
- **Save time.**
- **Fields recover and prepare much quicker with Mar-Co products.**
- **Save money.**
- **No need to buy conditioners or aggregates to manage a slippery wet surface.**
- **Save time in filling divets with Mar-Co's pre-blended product.**
- **Save money.**
- **Uses less material.**



THE MAR-CO ADVANTAGE

INFIELD MIXES

*Play more;
fix less*

*Light material
means less
required for
your field*

*No additional
slider application
required*

*Pre-blended
makes easy low
area repairs*

*More forgiving
for easy grading*

*Good particle
balance for easy
grooming*

Features

In-House Grading

Most competitive products require perfect grading to shed unwanted water, whereas Mar-Co clay manages water efficiently on all fields with typical slope grading. Mar-Co clay is very forgiving with imperfect grading. Positive drainage, as well as materials that will manage water internally, are important.

Easy Grooming

Many other clay products have a hard texture which makes it difficult to groom. Mar-Co provides a particle balance for easy grooming.

No Rolling Required

Many other products require that their material is rolled hard daily in order to keep shedding water. Mar-Co does not require rolling; our product is designed to manage water.

“Slide-ability”

Many competitors require a slider application for acceptable playability, whereas Mar-Co products provide good slide in all their infield products.

Fastest Rain Recovery

Mar-Co recovers quicker than any other infield clay after the rain. It absorbs water, percolates great amounts of water and has the ability to breath.

Outstanding Color

Mar-Co infield clays enhance your field with a pleasing “terra cotta” color, unmatched by other products. The color is natural and inherent and will never disappear.

Benefits

- More forgiving.
- Accommodates irregularities allowing you to grade it without the use of professional services.
- Achieve acceptable positive drainage.
- Saves times and labour.
- Grooms easier. Floats out very smooth.
- Save time and money during construction and regular season maintenance.
- Save time and money.
- No extra slider material required.
- Get back to the game sooner!
- Saves your crew time, money, and aggravation is preparing a field after a recent rain.
- Save money.
- No need to buy material to enhance the color of your field.



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SPECIFICATION DATA SHEET

WASHINGTON BALL MIX

1. PRODUCT DESCRIPTION:

Washington Ball Mix is an engineered blend of sand, baked clay and virgin clay. The blend will meet the following sizing.

2. CHARACTERISTICS:

Washington Ball Mix has a uniform consistent medium, providing a safe playing surface, dependable bounce, and good playability. This surface drains well and is easily maintained. The reddish-brown color provides a professional looking finish.

3. APPLICATION:

Washington Ball Mix is to be used as a finishing layer on baseball and softball diamonds.

4. PARTICLE SIZE ANALYSIS:

Sand 75-85% **Silt** 10-15% **Clay** 5-8%

5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
4	4.76 mm or 3/16"	100
7	2.83 mm or 1/8"	85-95
20	0.84 mm	65-75
60	0.25 mm	50-60
140	0.105 mm	30-35
200	0.075 mm	25-30

6. **WEIGHT:** Washington Ball Mix weighs approximately 2650 pounds per cubic yard.

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SPECIFICATION DATA SHEET

ERIE BALL MIX

1. PRODUCT DESCRIPTION:

Erie Ball Mix is an engineered blend of sand, baked clay and virgin clay. The blend will meet the following sizing.

2. CHARACTERISTICS:

Erie Ball Mix has a uniform consistent medium, providing a safe playing surface, dependable bounce, and good playability. This surface drains well and is easily maintained. The reddish-brown color provides a professional looking finish.

3. APPLICATION:

Erie Ball Mix is to be used as a finishing layer on all ball diamonds.

4. PARTICLE SIZE ANALYSIS:

Sand 65-75% **Silt** 12-20% **Clay** 10-15%

5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
4	4.76 mm or 3/16"	100
7	2.83 mm or 1/8"	70-85
20	0.84 mm	55-75
60	0.25 mm	45-55
140	0.105 mm	35.45
200	0.075 mm	25-40

6. WEIGHT: Erie Ball Mix weighs approximately 2650 pounds per cubic yard.



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PRODUCT SPECIFICATION DATA SHEET

15 Light – Infield Mix

1. PRODUCT DESCRIPTION:

15 Light is an engineered blend of baked clay, sand and virgin clay. This blend will meet the following particle sizing.

2. CHARACTERISTICS:

This blended clay product is applied to a diamond as a complete medium, which will provide the following characteristics:

- rich orange-red colour
- high drainage
- softer bounce
- softer footing
- excellent visibility
- safe playing conditions
- good water absorption and retention

3. APPLICATION:

Used as part of the finishing profile on 'Average' baseball diamond infield skins and baselines.

4. PARTICLE SIZE ANALYSIS:

Sand 65 – 80% **Silt** 10 – 20% **Clay** 5 – 15%

5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
4	4.76 mm or 3/16"	100
7	2.83 mm or 1/8"	95-100
20	0.84 mm	65-75
60	0.25 mm	50-60
140	0.105 mm	40-50
200	0.075 mm	30-40

6. **WEIGHT:** 15 Light weighs approximately 2300 pounds per cubic yard.

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PRODUCT SPECIFICATION DATA SHEET

20 Light – Infield Mix

1. PRODUCT DESCRIPTION:

20 Light is an engineered blend of baked clay, sand and virgin clay. This blend will meet the following particle sizing.

2. CHARACTERISTICS:

This blended clay product is applied to a diamond as a complete medium, which will provide the following characteristics:

- rich orange-red colour
- high drainage
- fine texture
- softer footing
- soft bounce
- excellent visibility
- safe playing conditions
- good water absorption and retention

3. APPLICATION:

Infield Clay 20 Series Light is used as part of the finishing layer on 'Basic' baseball diamond infield skins and baselines.

4. PARTICLE SIZE ANALYSIS:

Sand	70-85%	Silt	12-20%	Clay	5-15%
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5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
4	4.76 mm or 3/16"	95-100
7	2.83 mm or 1/8"	65-75
20	0.84 mm	55-65
60	0.25 mm	45-55
140	0.105 mm	35-45
200	0.075 mm	30-40

6. WEIGHT: 20 Light weighs approximately 2300 pounds per cubic yard.



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PRODUCT SPECIFICATION DATA SHEET

15 Standard – Infield Mix

1. PRODUCT DESCRIPTION:

15 Standard is an engineered blend of baked clay, sand and virgin clay. This blend will meet the following particle sizing.

2. CHARACTERISTICS:

This blended clay product is applied to a diamond as a complete medium, which will provide the following characteristics:

- rich orange-red colour
- good drainage
- moderate footing
- standard bounce
- excellent visibility
- safe playability
- good water absorption and retention

3. APPLICATION:

Used as part of the finishing profile on baseball diamond baselines, home plate area and infield skins.

4. PARTICLE SIZE ANALYSIS:

Sand 65 - 75% **Silt** 10-20% **Clay** 15-22%

5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
4	4.76 mm or 3/16"	100
7	2.83 mm or 1/8"	95-100
20	0.84 mm	65-75
60	0.25 mm	55-65
100	0.15 mm	45-55
200	0.075 mm	40-50

WEIGHT: 15 Standard weighs approximately 2300 pounds per cubic yard.

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PRODUCT SPECIFICATION DATA SHEET

20 Standard – Infield Mix

1. PRODUCT DESCRIPTION:

20 Standard is an engineered blend of baked clay, sand and virgin clay. This blend will meet the following particle sizing.

2. CHARACTERISTICS:

This blended clay product is applied to a diamond as a complete medium, which will provide the following characteristics:

- rich orange-red colour
- good drainage
- moderate footing
- standard bounce
- excellent visibility
- safe playability
- good water absorption and retention

3. APPLICATION:

Infield Clay 20 Series Standard is used as part of the finishing layer on a 'Standard' baseball diamond infield.

4. PARTICLE SIZE ANALYSIS:

Sand 65 - 75% **Silt** 10-20% **Clay** 10-20%

5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
4	4.76 mm or 3/16"	95-100
7	2.83 mm or 1/8"	65-75
20	0.84 mm	55-65
60	0.25 mm	50-60
100	0.15 mm	40-50
200	0.075 mm	35-45

WEIGHT: 20 Standard weighs approximately 2300 pounds per cubic yard.



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PRODUCT SPECIFICATION DATA SHEET

15 Firm – Infield Mix

1. PRODUCT DESCRIPTION:

15 Firm is an engineered blend of baked clay, sand and virgin clay. This blend will meet the following particle sizing.

2. CHARACTERISTICS:

This blended clay product is applied to a diamond as a complete medium which will provide the following characteristics:

- rich orange-red colour
- true bounce
- excellent visibility
- good drainage
- good water absorption
- safe playability
- firm footing
- higher water retention

3. APPLICATION:

Used as part of the finishing profile on 'High Profile' baseball diamond infields and home plate areas.

4. PARTICLE SIZE ANALYSIS:

Sand 55-65% **Silt** 15-25% **Clay** 15-25%

5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
4	4.76 mm or 3/16"	100
7	2.83 mm or 1/8"	95-100
20	0.84 mm	65-75
60	0.25 mm	55-65
140	0.105 mm	45-55
200	0.075 mm	40-50

6. WEIGHT: 15 Firm weights approximately 2300 pounds per cubic yard.

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PRODUCT SPECIFICATION DATA SHEET

20 Firm – Infield Mix

1. PRODUCT DESCRIPTION:

15 Firm is an engineered blend of baked clay, sand and virgin clay. This blend will meet the following particle sizing.

2. CHARACTERISTICS:

This blended clay product is applied to a diamond as a complete medium which will provide the following characteristics:

- rich orange-red colour
- true bounce
- excellent visibility
- good drainage
- good water absorption
- safe playability
- firm footing
- higher water retention

3. APPLICATION:

Infield Clay 20 Series Firm is used as the finishing layer on 'High Profile' baseball diamond infields, baselines and home plate areas.

4. PARTICLE SIZE ANALYSIS:

Sand 65-75% **Silt** 15-20% **Clay** 15-25%

5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
4	4.76 mm or 3/16"	95-100
7	2.83 mm or 1/8"	65-75
20	0.84 mm	55-65
60	0.25 mm	45-55
140	0.105 mm	40-50
200	0.075 mm	35-45

6. WEIGHT: 15 Firm weights approximately 2300 pounds per cubic yard.



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SPECIFICATION DATA SHEET

SPORT SAND

1. PRODUCT DESCRIPTION:

Sport Sand is a blend of sands designed to provide a solid base as well as percolate water. It is compatible as a base for all of the Mar-Co Clay infield clay products.

2. CHARACTERISTICS:

Sport Sand is a brownish grey sand blended with a controlled amount of silt and clay. It's purpose is to provide a good drainage layer as well as a firm base to support a finishing layer of infield clay on a baseball infield.

3. APPLICATION:

It is engineered as a base layer to be applied at a preferred depth of 5"-6" on a new installation. It needs to be applied at a uniform depth and lightly rolled.

4. PARTICLE SIZE ANALYSIS:

Sand 75-85% **Silt** 10-20% **Clay** 5-8%

5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
4	4.76 mm or 3/16"	100
8	2.36 mm	93-96
16	1.18 mm	85-91
30	0.6 mm	70-80
50	0.3 mm	52-62
100	0.15 mm	46-56
200	0.075 mm	20-30

6. **WEIGHT:** Sport Sand weighs approximately 3000 pounds per cubic yard.

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SPECIFICATION DATA SHEET

DIAMOND CLAY CONDITIONER

1. PRODUCT DESCRIPTION:

Diamond Clay is baked clay crushed and screened into a uniform range of particle sizes below 1/8".

2. CHARACTERISTICS:

This red clay product is an amendment and therefore designed to enrich the colour, improve drainage, enhance the water absorption and retention, and develop the desired texture, density and playability.

3. APPLICATION:

Diamond Clay is used as a conditioner on baseball diamond infields and warning tracks.

4. PARTICLE SIZE ANALYSIS:

Sand 80 – 90% **Silt** 5 – 10% **Clay** 2 – 5%

5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
4	4.76 mm or 3/16"	100
7	2.83 mm or 1/8"	95
20	0.84 mm	50-60
60	0.25 mm	30-40
140	0.105 mm	15-25
200	0.075 mm	5-15

6. WEIGHT: Diamond Clay weighs approximately 2200 pounds per cubic yard.



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PRODUCT SPECIFICATION DATA SHEET

RediMound – Mound Clay

1. PRODUCT DESCRIPTION:

RediMound is virgin raw clay crushed and screened to less than 1/8" with the following typical particle analysis.

2. CHARACTERISTICS:

RediMound is a clay product that has a complete range of inherent qualities that provide the following characteristics:

- Rich brownish-red colour
- High water absorption and retention
- Pliability and formability
- Durability and toughness
- High elasticity
- Active binding ability
- Fine clay particle range

3. APPLICATION:

RediMound is used as packing clay to build, form and shape pitching mounds and batters boxes. The adhesives of this clay can easily be reactivated with an application of water for further building and/or daily repairs. This clay can be used as a binding agent in unstable materials to attain the desired texture and stability on the playing surface.

4. PARTICLE SIZE ANALYSIS:

Sand	25-35	Silt	35-45	Clay	35-45
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5. SIEVE ANALYSIS: (Typical)

SIEVE #	SIEVE SIZE	% PASSING
4	4.76 mm or 3/16"	100
7	2.83 mm or 1/8"	90 – 100
20	0.84 mm	80 – 90
60	0.25 mm	70 – 80
140	0.105 mm	65 – 75
200	0.075 mm	60 - 70

6. **WEIGHT:** RediMound weighs approximately 2500 pounds per cubic yard.

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PRODUCT SPECIFICATION DATA SHEET

REDIBRICK - FIELD BRICK

1. PRODUCT DESCRIPTION:

RediBrick is virgin raw clay, crushed, screened, moisturized and pressed into a block in shape of a field brick. It is made from the same ingredients as RediMound.

2. CHARACTERISTICS:

RediBrick is a virgin clay product which is formed and has the following characteristics:

- Rich brownish red colour
- Pliable and formable
- Durable
- High elasticity
- Highly bondable

3. APPLICATION:

RediBricks are field bricks used to build firm clay areas in batters' boxes, coach's boxes and the high wear areas on a pitching mound. For best results, apply a 1" base layer of RediMound under the bricks to bond the bottoms of the brick together.

4. SIZE:

4" (w) X 8" (l) X 2 ½" (h)

5. WEIGHT:

7 lbs. per block



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PRODUCT SPECIFICATION DATA SHEET

HOME BASE BLEND

1. PRODUCT DESCRIPTION:

Home Base Blend is an engineered blend of baked clay, sand and virgin clay, which will meet the specifications, listed below.

2. CHARACTERISTICS:

This blended clay product is a complete medium, which provides the following characteristics:

- rich reddish-brown colour
- firm footing
- moderate drainage
- moderate texture
- high water retention
- shape retaining ability
- positive traction feature
- good water absorption feature

3. APPLICATION:

Used to cover the home plate area, pitching mound circle and around 1st, 2nd and 3rd base on regulation fields. It is also used to build Little League pitching mounds.

4. PARTICLE SIZE ANALYSIS:

Sand	55-65%	Silt	18-25%	Clay	20-25%
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5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
4	4.76 mm or 3/16"	100
7	2.83 mm or 1/8"	95-100
20	0.84 mm	65-75
60	0.25 mm	60-65
140	0.105 mm	50-60
200	0.075 mm	40-50

WEIGHT: Home Base Blend weighs approximately 2400 pounds per cubic yard.



SPECIFICATION DATA SHEET

GREY GUMBO

1. PRODUCT DESCRIPTION:

Grey gumbo is virgin raw clay crushed and screened to 8 mesh with the following typical particle analysis.

2. CHARACTERISTICS:

Grey Gumbo is a clay product with the following characteristics:

- blue grey in color
- a high water absorption and retention
- high in plasticity
- a fine clay structure
- high bonding ability
- a tough leather-like texture.

3. APPLICATION:

Grey Gumbo is used on a baseball diamond as the base and maintenance product on the wear areas of a pitching mound and batters' boxes. It is also used to construct and maintain cricket pitches.

4. PARTICLE SIZE ANALYSIS:

Sand 22-27 **Silt** 30-40 **Clay** 35-45

5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
8	2.36 mm	100
16	1.18 mm	97-99
30	0.60 mm	85-89
50	0.30 mm	74-78
100	0.15 mm	40-46
200	0.075 mm	44-50

6. **WEIGHT:** Grey Gumbo weighs approximately 4000 pounds per cubic yard.



REDIKIT

FOR BATTER'S BOXES OR PITCHING MOUNDS

Building a batter's box **OR** repairing a pitching mound has never been easier with Mar-Co's **REDIKIT**



The **REDIKIT** includes enough product to build 2 batter's boxes **OR** repair a pitcher's mound, **ALL ON ONE CONVENIENT SKID!**

These products are moisturized to allow for easy shaping at the time of installation. The ready-to-use product comes in sealed 40lb (18kg) bags.

1.800.950.2555



MARCOCLAY.COM

A ONE SKID SOLUTION.

One skid = 2 batter's boxes **OR** 1 pitching mound.



- ▶ **26 BAGS**
OF REDIMOUND
- ▶ **24 BAGS**
OF REDIBRICKS

Each skid comes with a **STEP-BY-STEP INSTRUCTIONAL SHEET** for building a Batter's Box and Pitching Mound.

INSTRUCTIONS FOR USING THE REDIKIT TO REPAIR A PITCHING MOUND

1. LAYOUT & PREP

- Measure and mark out the plateau & landing area (see diagram A).
- Establish your finish grades (see diagram B).
- Dig out the marked area 3/12" below finished grade using a pick axe and shovel. Lightly rake it and apply water. No puddles.

2. INSTALLATION OF REDIBRICKS

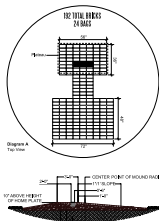
- Spread out a 1" layer (approx. 15 bags) of RediMound clay over the excavated area.
- Temp wet.
- Add RediMound as needed and tamp again to create a smooth level surface that is 2/12" lower than the finish elevation.
- Apply water to provide a bond to the brick you are about to install.

3. INSTALLING THE REDIBRICKS

- Begin at the center point and place a row of RediBricks 1/2" to 1" wide of the excavated area. (See diagram A.)
- Lay in the next row of RediBricks as snug and straight as possible. Then continue to lay the bricks one by one making sure the bricks are placed tightly one to the next.
- Complete the plateau area first, then the landing area. (See diagram A & B for pattern and depth.)
- When all the bricks have been placed, spread the edges of the excavated area with material that you had dug out to make the batter's box and tamp the edges very hard to bond to the outside brick.
- Spread a light layer of RediMound clay (approx. 15 bags) and tamp it into any cracks in the brick pattern.
- Temp the RediMound clay and brick together.
- If there are any irregularities or unevenness, spread RediMound clay and rake it even.
- Use the tamping frequency.

4. FINISHING TOUCHES

- Spread a light layer of conditioner (such as oil or sand) over the completed mound.
- Use a tamp to control the moisture level of the mound.
- Any RediMound or RediBricks left over from project can be used for comping maintenance.



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INSTRUCTIONS FOR USING THE REDIKIT TO BUILD 2 BATTER'S BOXES

1. LAYOUT & PREP

- String a line from 2nd base through the home plate line.
- Survey and establish finish grade of the box (1/2" below home plate).
- Establish the center line of the boxes (see diagram).
- Mark out the boxes (see diagram).
- Dig out the batter's boxes using a pick axe and shovel to 4" depth below the height of home plate. The only 4" to be dug out is depth in the center. The only 4" to be dug out is depth in the center. The only 4" to be dug out is depth in the center.
- Lightly rake it and apply water. No puddles.

2. INSTALLATION OF REDIBRICKS

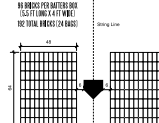
- Spread out a 1" layer of RediMound clay (approx. 15 bags) over the excavated area.
- Temp wet.
- Add RediMound as needed and tamp again to create a smooth level surface that is 2/12" lower than the finish elevation.
- Apply water to provide a bond to the brick you are about to install.

3. INSTALLING THE REDIBRICKS

- Begin at the center point and place a row of RediBricks 1/2" to 1" wide of the excavated area. (See diagram A.)
- Lay in the next row of RediBricks as snug and straight as possible. Then continue to lay the bricks one by one making sure the bricks are placed tightly one to the next.
- When all the bricks have been placed, spread the edges of the excavated area with material that you had dug out to make the batter's box and tamp the edges very hard to bond to the outside brick.
- Spread a light layer of RediMound clay (approx. 15 bags) and tamp it into any cracks in the brick pattern.
- Temp the RediMound clay and brick together.
- If there are any irregularities or unevenness, spread RediMound clay and rake it even.
- Use the tamping frequency.

4. FINISHING TOUCHES

- Spread a light layer of conditioner (such as oil or sand) over the completed batter's boxes and rake it to the desired grade and appearance.
- Use a tamp to control the moisture level of the mound.
- Any RediMound or RediBricks left over from project can be used for comping maintenance.



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INSTRUCTIONS FOR USING THE REDIKIT TO REPAIR A PITCHING MOUND

1. LAYOUT & SITE PREP

- Measure and mark out the plateau & landing area. (see diagram A)
- Establish your finish grades. (see diagram B)
- Using a pick axe and shovel, dig out the marked area 3 1/2" below finished grade. Lightly rake it and apply water. No puddles.

2. INSTALLATION OF THE MATERIALS

A. Prepare base of excavation area for the RediBricks

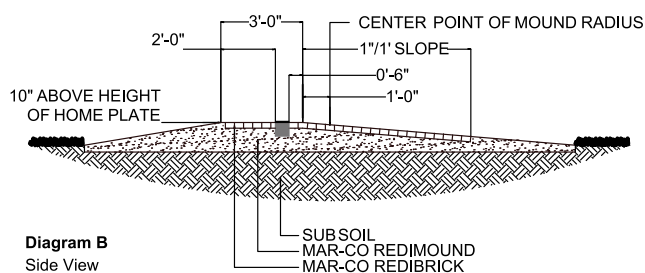
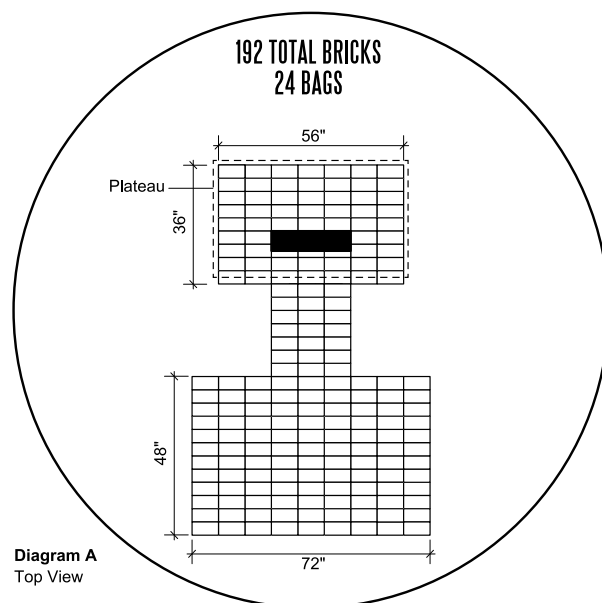
- Spread out a 1" layer (approx. 15 bags) of moisturized RediMound clay over the excavated area.
- Tamp well.
- Add RediMound as needed and tamp again to create a smooth level surface that is 2 1/2" lower than the finish elevation.
- Apply water to provide a bond to the brick you are about to install.

B. Installing the RediBricks

- Begin at the pitching rubber and place a row of RediBricks the full width of the excavated area. (see diagram A)
- Lay in the next lines of RediBricks as snug and straight as possible, then continue to lay the bricks row by row making sure the bricks are placed tightly one to the next.
- Complete the plateau area first, then the landing area. (see diagram A & B for pattern and slope)
- When all the bricks have been placed, backfill the edges of the excavated areas with material that you had dug earlier and tamp the edges very hard to hold in the outside brick.
- Spread a light layer of RediMound clay (approx. 5 bags) and brush it into any cracks in the brick pattern.
- Tamp the RediMound clay and brick together.
- If there are any irregularities in the finish, spread RediMound clay and rake it level.
- Then tamp it thoroughly.

3. FINISHING TOUCHES

- Spread a light layer of conditioner (such as calcined clay) over the completed mound.
- Use a tarp to control the moisture level of the mound.
- Any RediMound or RediBrick left over from project can be used for on-going maintenance.



TIPS

- Use an old t-shirt or empty plastic bag on end of the tamp to keep the moisturized clay from sticking to your tamp.
- Applying moisture between the applications of RediMound and RediBrick is essential to creating the bond between materials.
- Applying water to clay must be done carefully. A fine mist or a watering can is best. Apply slowly and allow the clay to absorb the moisture before applying more. Avoid puddling.
- Use tarps as a way to control the moisture level of these clay areas; both to protect the areas from excessive rain or sun.





INSTRUCTIONS FOR USING THE REDIKIT TO BUILD 2 BATTER'S BOXES

1. LAYOUT & SITE PREP

- String a line from 2nd base through the center of home plate.
- Survey and establish finish grade of the box.
- Establish the centre line of the boxes. (see diagram)
- Mark out the boxes. (see diagram)
- Using a pick axe and shovel, dig out the batter's boxes 4" below the height of home plate. (Be careful not to exceed 4" depth in your digging or you will need more RediMound than is provided in the RediKit)
- Lightly rake it and apply water. No puddles.

2. INSTALLATION OF THE MATERIALS

A. Prepare base of the excavated area for the RediBricks

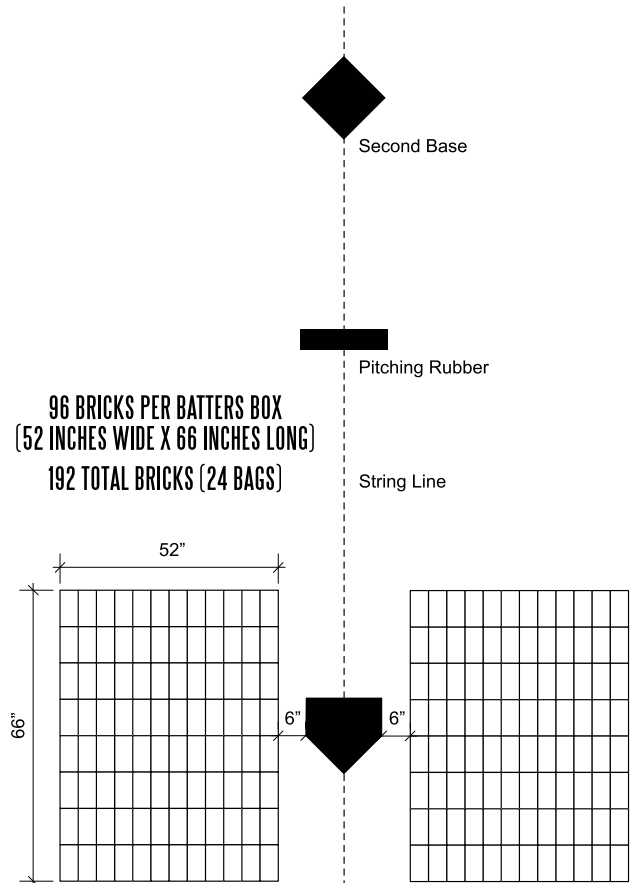
- Spread out a 1" layer of moisturized RediMound clay (approx 4 bags per batter's box) over the complete box area.
- Tamp firmly.
- Add RediMound as needed and tamp again to create a smooth level surface that is 3" lower than the finish grade.
- Apply water to provide a bond to the brick you are about to install.

B. Installing the RediBricks

- Begin at one end of a batter's box and place a line of RediBricks the full width of the box. (see diagram)
- Lay in the next lines of RediBrick as snug and straight as possible, then continue to lay the bricks row by row making sure the bricks are placed tightly one to the next.
- When all the bricks have been placed, backfill the edges of the excavated areas with material that you had dug earlier and tamp the edges very hard to hold in the outside brick.
- Spread a light layer of RediMound clay (approx 3 bags per batter's box) and brush it into any cracks in the brick pattern.
- Tamp the RediMound clay and brick together.
- If there are any irregularities in the finish, spread RediMound clay and rake level the surface of the whole box area.
- Then tamp it thoroughly.

3. FINISHING TOUCHES

- Spread sliding material over the completed batter's boxes and rake to the desired grade and appearance.
- Sliding material (approx 1/4" depth) will typically be the same as the material covering home plate area.
- The elevation of the finished surface should be the same height as home plate or slightly lower (1/8").



TIPS

- Use an old t-shirt or empty plastic bag on end of the tamp to keep the moisturized clay from sticking to your tamp.
- Applying moisture between the applications of RediMound and RediBrick is essential to creating the bond between materials.
- Applying water to clay must be done carefully. A fine mist or a watering can is best. Apply slowly and allow the clay to absorb the moisture before applying more. Avoid puddling.
- Use tarps as a way to control the moisture level of these clay areas; both to protect the areas from excessive rain or sun.





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PRODUCT SPECIFICATION DATA SHEET

CLAY TRACK SURFACER - STANDARD

1. PRODUCT DESCRIPTION:

Clay Track Surfer - Standard is baked clay crushed and screened into a uniform range of particle sizes below 3/16".

2. CHARACTERISTICS:

This red clay product is designed to provide the following characteristics:

- orange-red color
- soft texture
- high drainage
- good water retention
- safety enhancing texture

3. APPLICATION:

Clay Track Surfer - Standard has a variety of applications:

- Warning tracks around the inside of baseball fields to alert the players of the proximity of the fence.
- Track and field running tracks as the finish layer
- Pathways in parks
- Golf cart paths as a top dress and beautifier

4. PARTICLE SIZE ANALYSIS:

Sand	90-95%	Silt	1 – 3%	Clay	2 – 5%
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5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
4	4.76 mm or 3/16"	90-95
7	2.83 mm or 1/8"	30-40
20	0.84 mm	25-35
60	0.25 mm	10-20
140	0.105 mm	5-15
200	0.075 mm	0-10

6. Weight:

Clay Track Surfer - Standard weighs approximately 2200 pounds per cubic yard.

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SPECIFICATION DATA SHEET

RUNNING TRACK SURFACER

1. PRODUCT DESCRIPTION:

Running Track Surfacers is an engineered blend of sand and baked clay, crushed and screened into a uniform range of particle sizes below 3/16".

2. CHARACTERISTICS:

Running Track Surfacers is designed for increased stability which is achieved by blending higher levels of sand and clay.

- high drainage –soft texture - good water retention - increased stability

3. APPLICATION:

Running Track is ideal as the finish layer for walking or running tracks. It can also be used for the following applications:

- Pathways in parks
- Golf cart paths as a top dress and beautifier
- Warning tracks around the inside of baseball fields to alert the players of the proximity of the fence.

4. PARTICLE SIZE ANALYSIS:

Sand 78 - 85% **Silt** 10 - 14 % **Clay** 5 - 8 %

5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
4	4.76 mm or 3/16"	100
7	2.83 mm or 1/8"	90-95
20	0.84 mm	75-80
60	0.25 mm	55-65
140	0.105 mm	25-35
200	0.075 mm	15-25

6. WEIGHT: Running Track Surfacers weighs approximately 2300 pounds a cubic yard.



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SPECIFICATION DATA SHEET

CLAY TRACK SURFACER - COARSE

1. PRODUCT DESCRIPTION:

Clay Track Surfer - Coarse is baked clay that is crushed and screened into a uniform range of particle sizes below 3/8".

2. CHARACTERISTICS:

This red clay product is designed to provide the following characteristics:

- terracotta-red color
- high drainage
- good water retention
- safety enhancing texture

3. APPLICATION:

Clay Track Surfer - Coarse has a variety of applications:

- Warning tracks around the inside of baseball fields to alert the players of their proximity to the fence.
- Pathways in parks
- Golf cart paths as a top dress

4. PARTICLE SIZE ANALYSIS:

Sand 95- 98 % **Silt** 1-3% **Clay** 1-2%

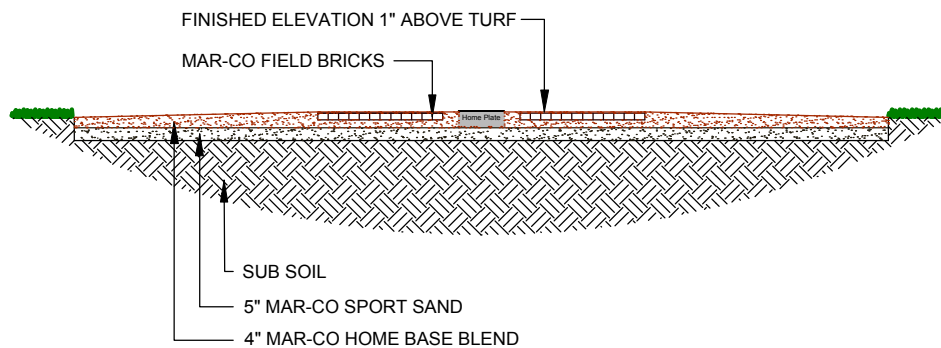
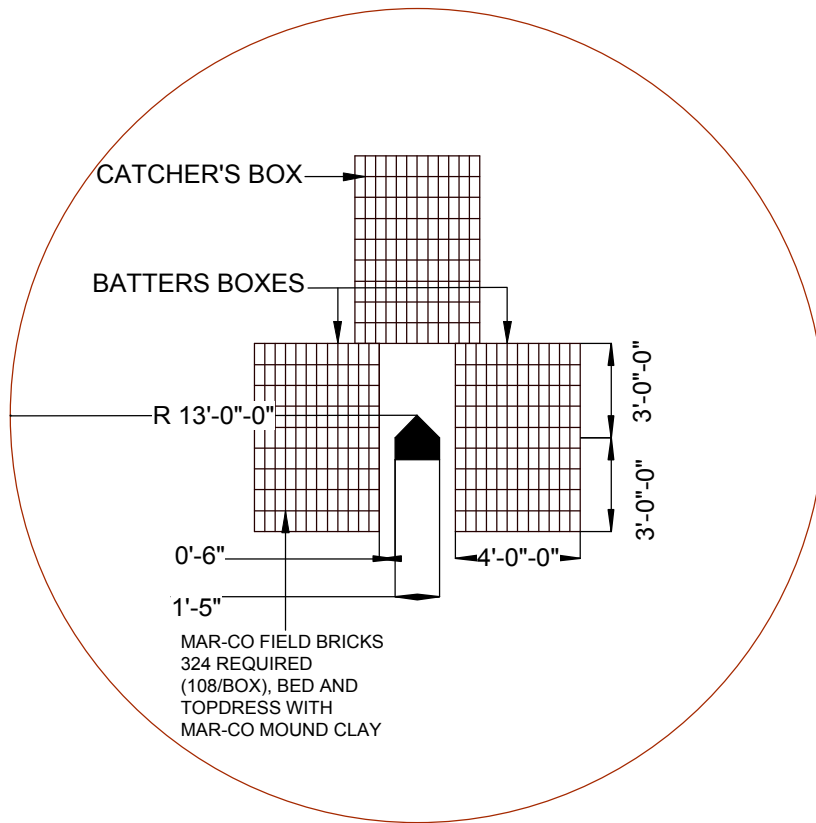
5. SIEVE ANALYSIS:

SIEVE #	SIEVE SIZE	% PASSING
	3/8"	100%
	1/4"	91-96%
	1/8"	71-76%
	1/16"	47-52%
100	0.105 mm	5-9%
200	0.075 mm	3-5%

6. WEIGHT:

Clay Track Surfer – Coarse weighs approximately 2200 pounds per cubic yard.

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Client

Project Title

HOME PLATE SPECIFICATIONS

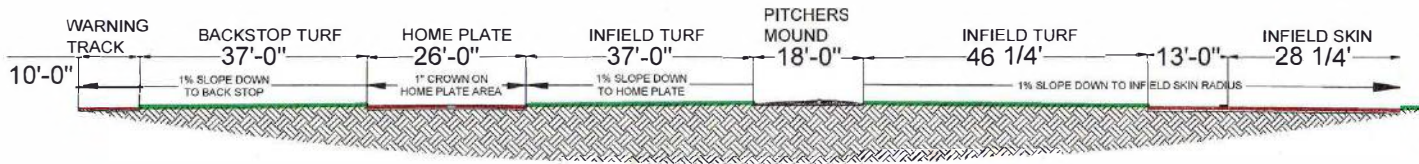
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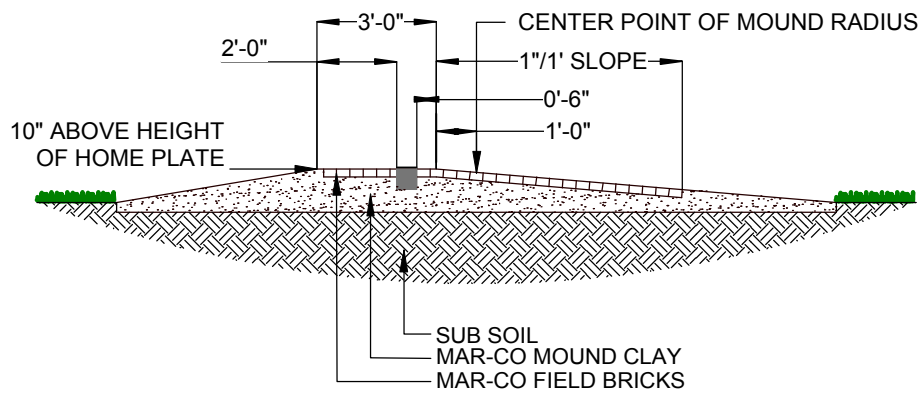
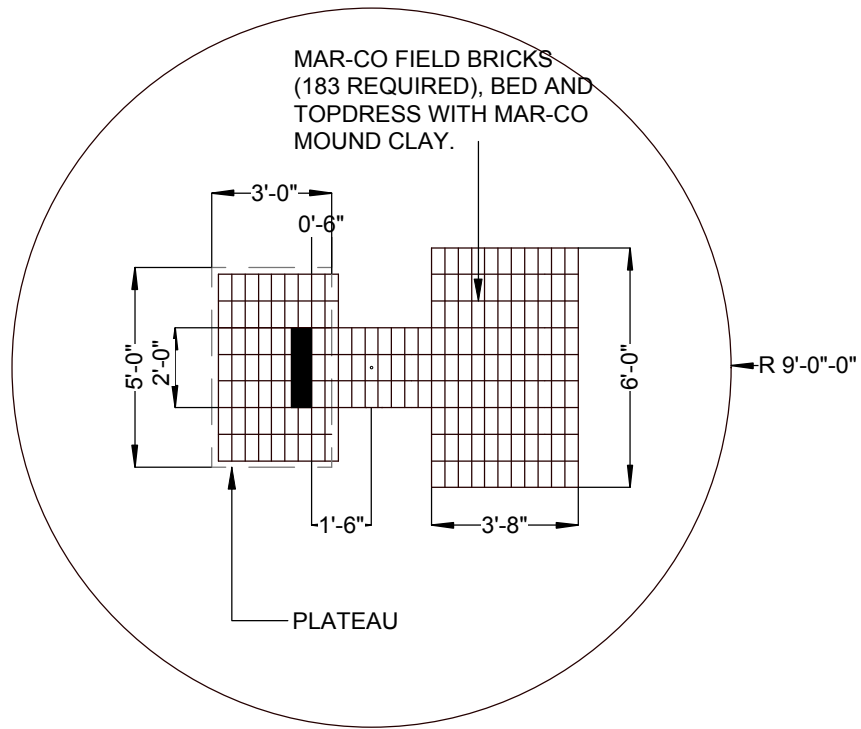
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BBH1



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	MAR-CO CLAY USA INC. <i>Wampum, PA USA ph. 866-344-9362</i>	Scale
	Client	Drawn By
	Project Title INFIELD GRADING DETAIL	Sheet # BB2B



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PITCHERS MOUND SPECIFICATIONS

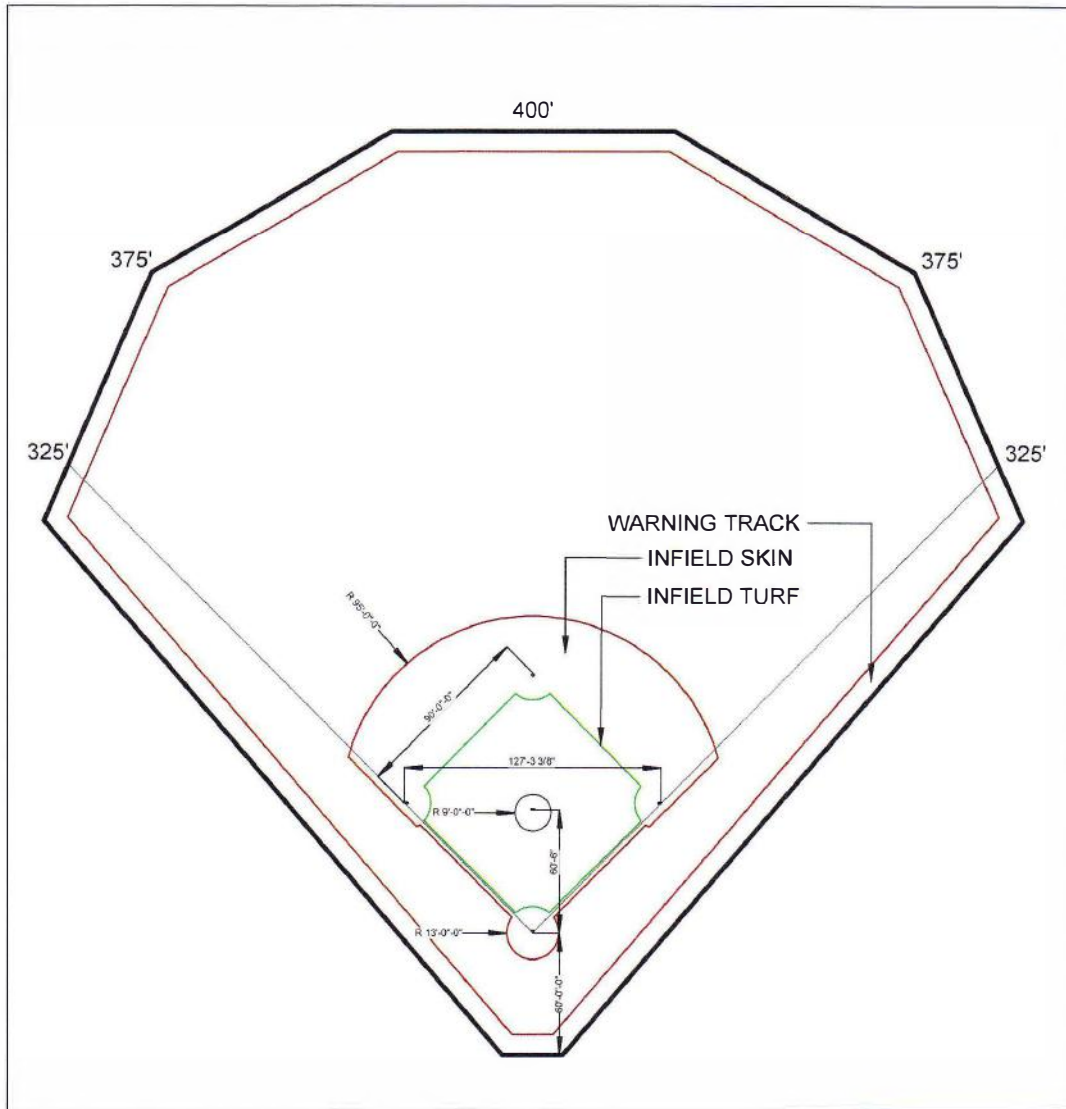
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BASEBALL FIELD SPECIFICATIONS

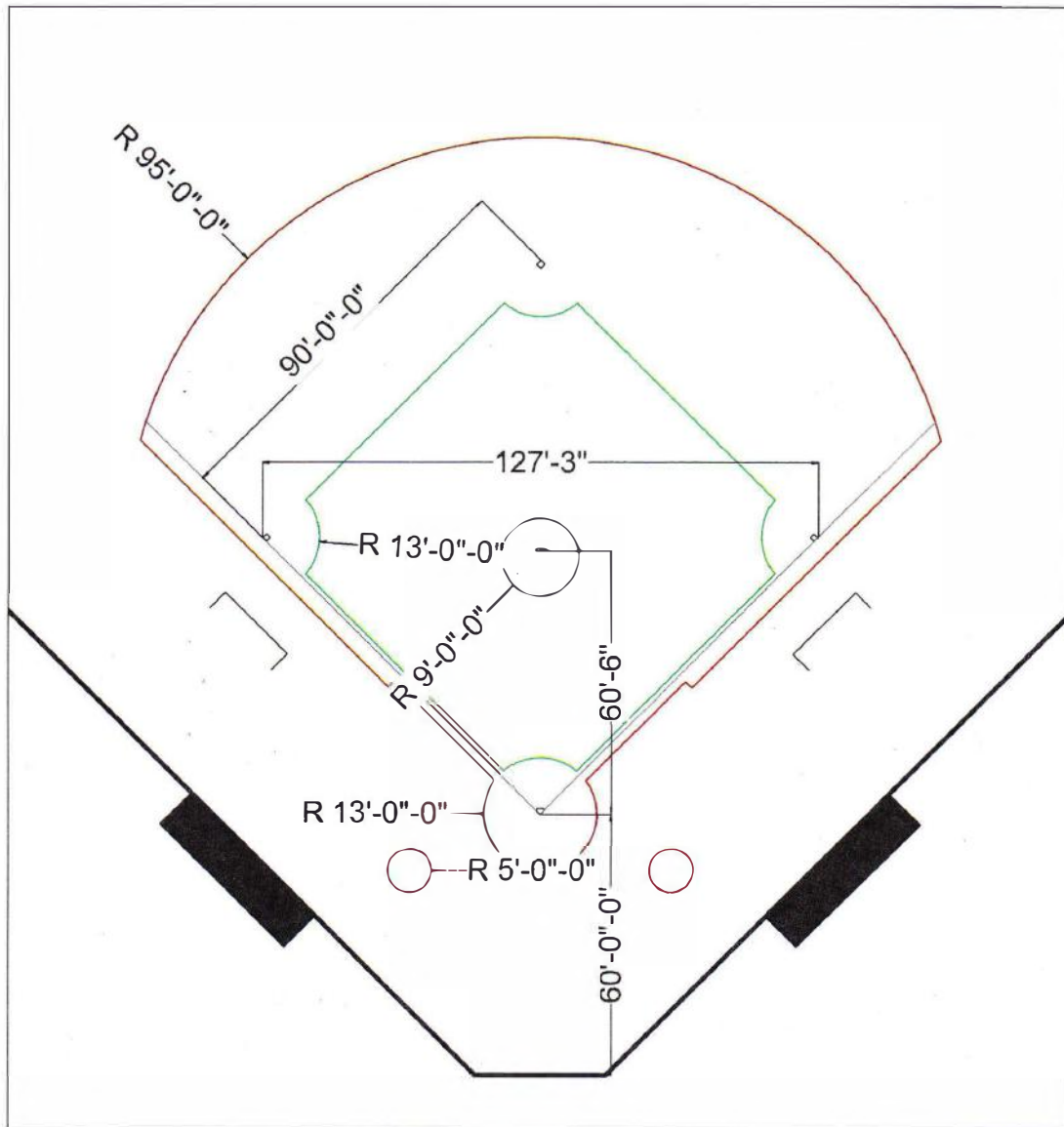
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Project Title

BASEBALL FIELD SPECIFICATIONS

Date

Scale

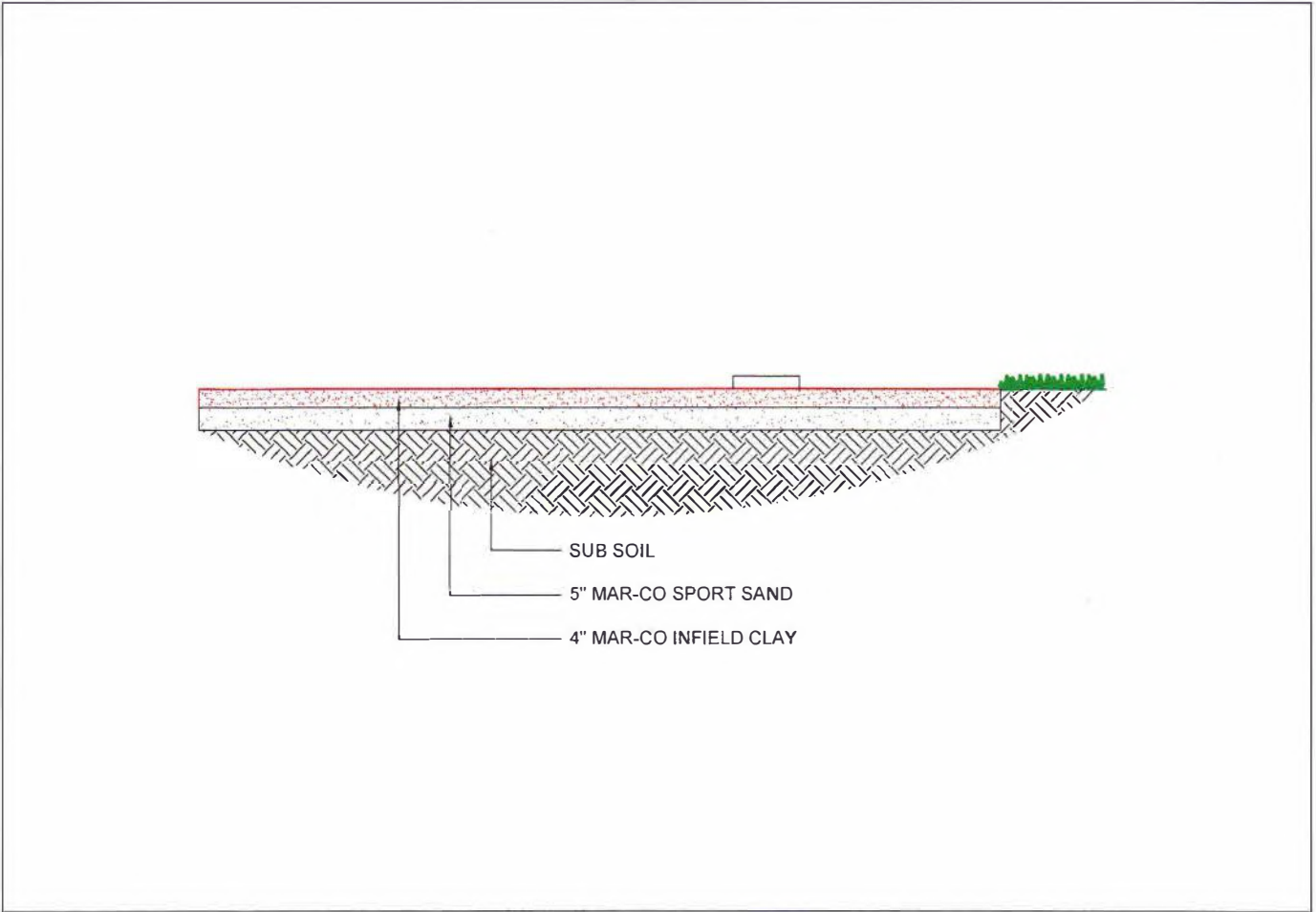
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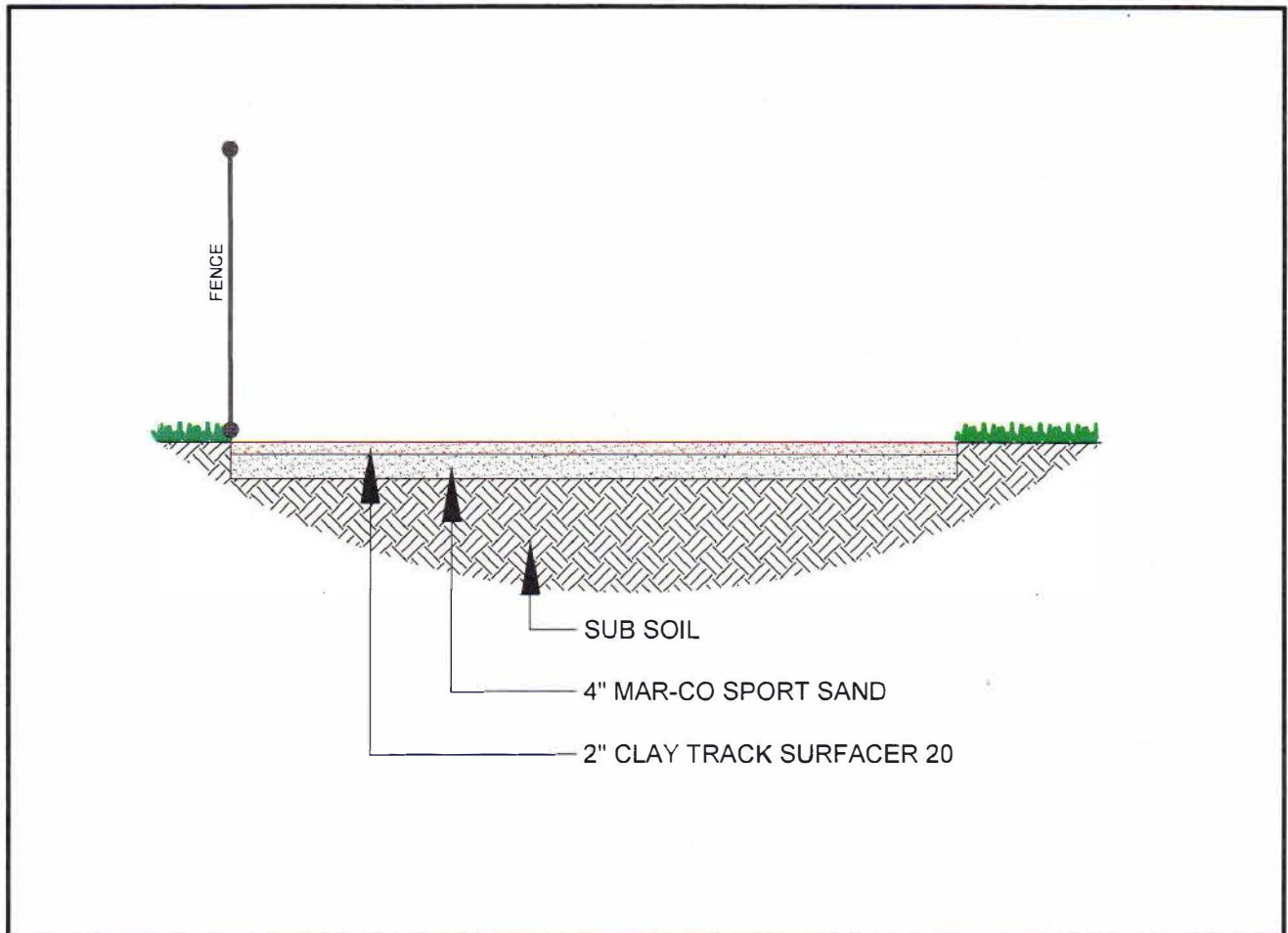
Project Title **INFIELD SKIN CROSS-SECTION**

Date

Scale

Drawn By

Sheet # **IFS1**



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Project Title

WARNING TRACK CROSS-SECTION

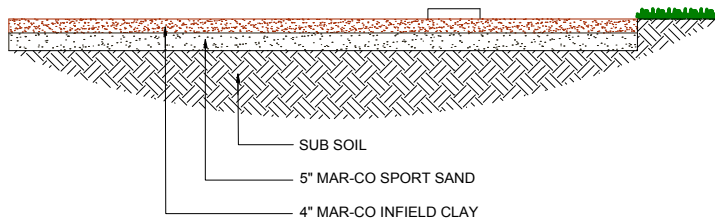
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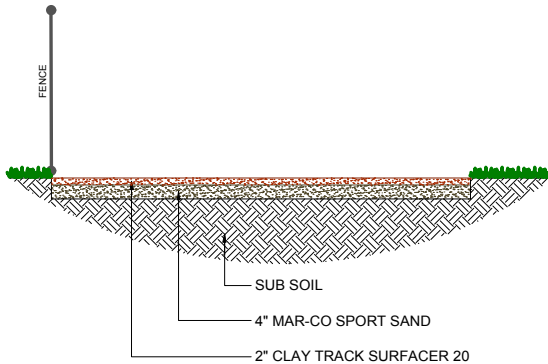


Infield Skin

Spread MAR-CO SPORT SAND evenly over sub grade to a Firm depth of 5".

Spread MAR-CO INFIELD CLAY evenly over the sport sand base to a compacted depth of 4".

Allow materials to settle naturally through several rainfalls or heavy watering.



Warning Track

Spread MAR-CO SPORT SAND evenly over sub grade to a compacted depth of 4".

Spread MAR-CO CLAY TRACK SURFACER over sport sand to a compacted depth of 2".

Compact the materials with light roller.



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INFIELD AND WARNING TRACK INSTALLATION

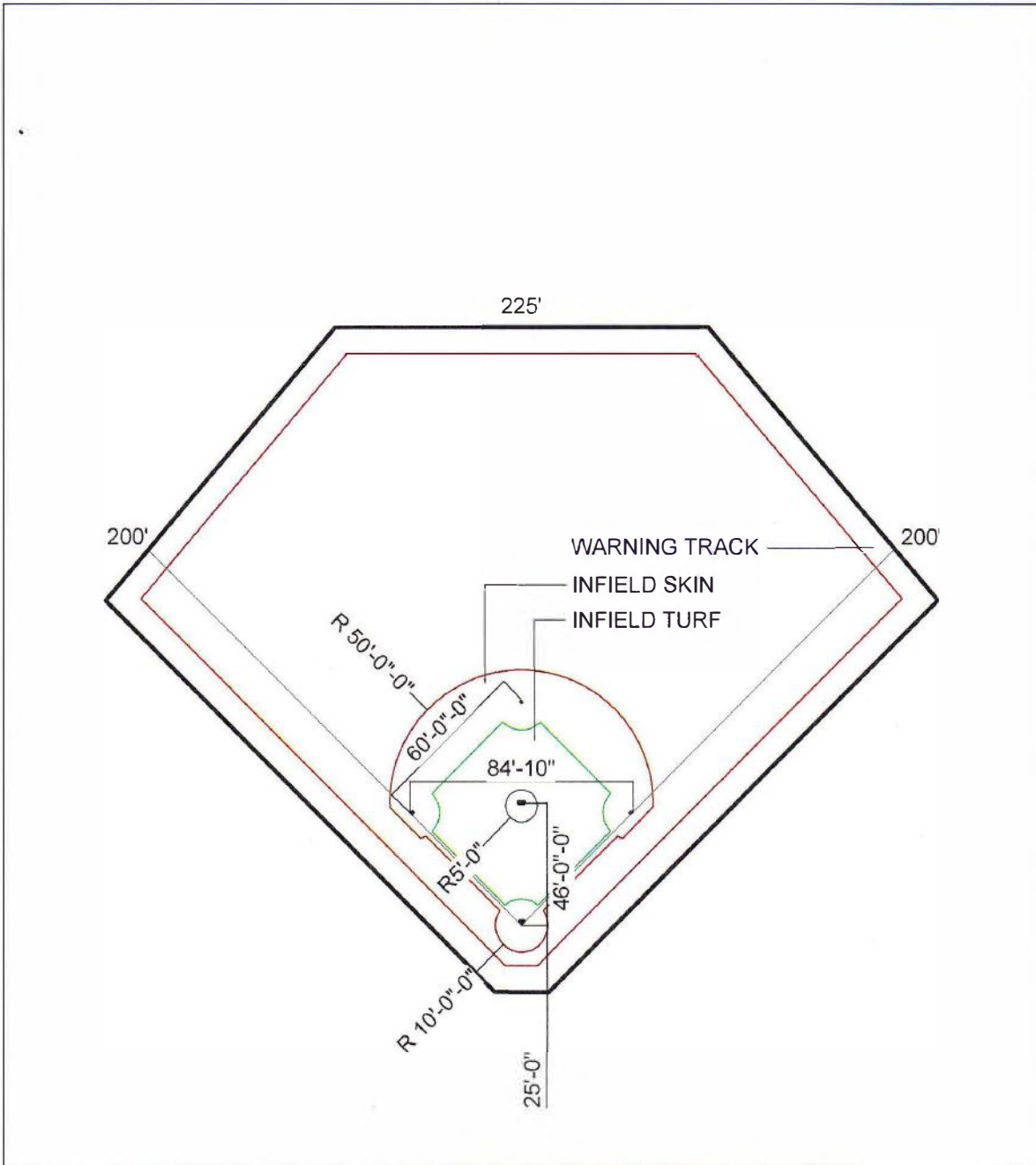
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IFS2



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LITTLE LEAGUE FIELD SPECIFICATIONS

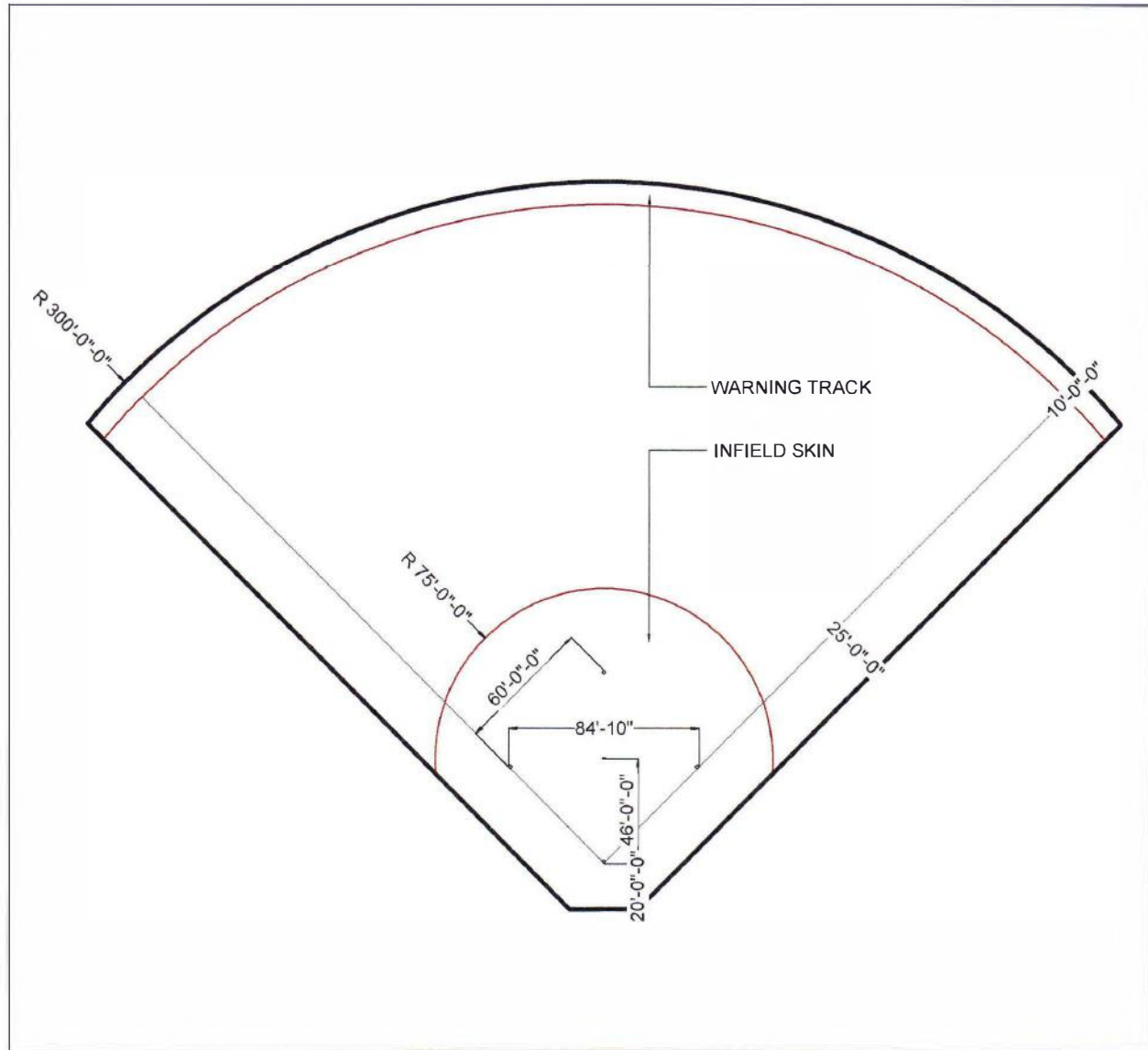
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SOFTBALL FIELD SPECIFICATIONS

Date

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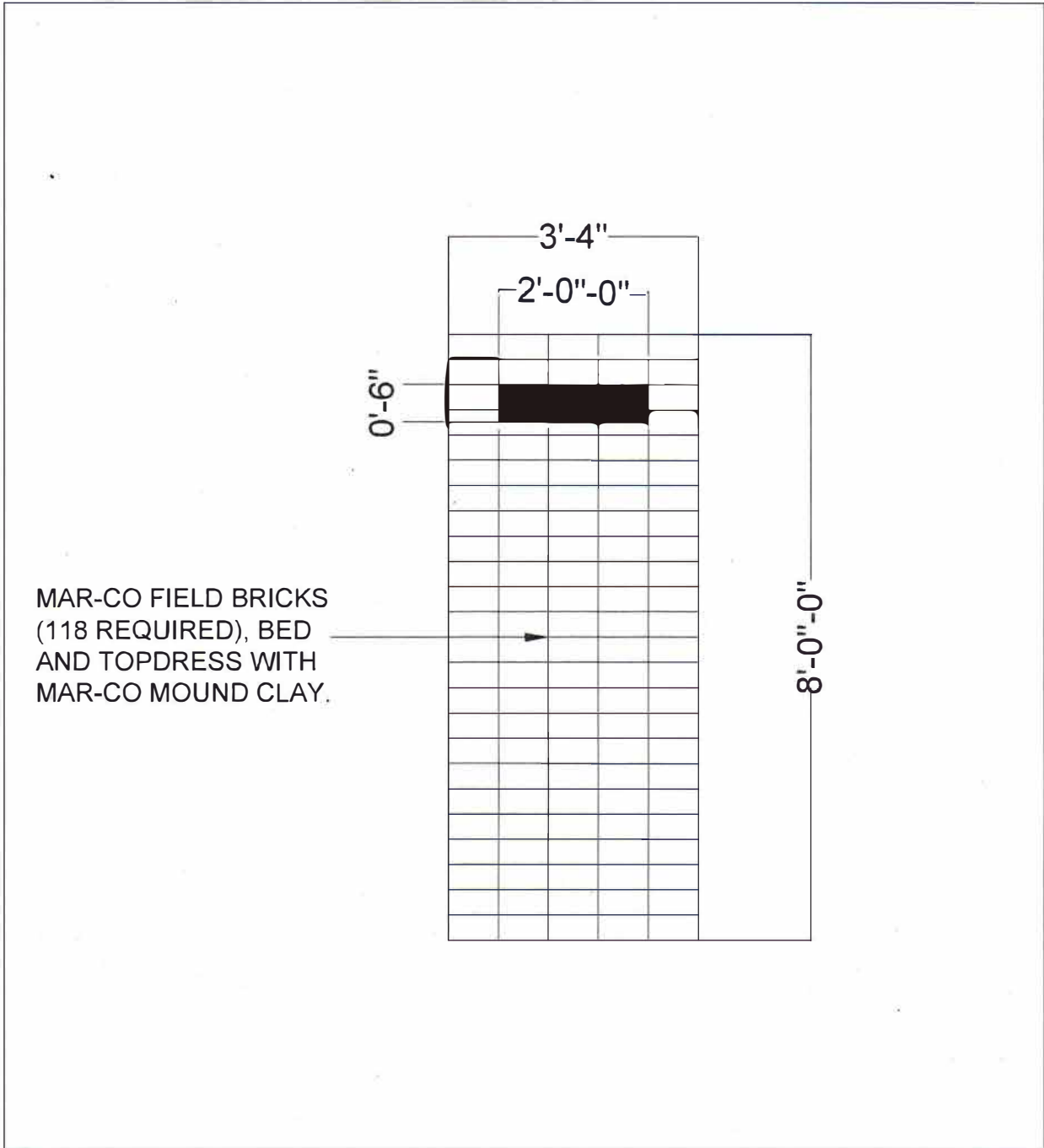
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Project Title

SOFTBALL PITCHERS PAD

Date

Scale

Drawn By

Sheet #

SBP1

Infield Product Tonnage Calculations (Imperial)

Type of Field	Base Length	Pitching Distance	Pitching Height	Infield Arc Radius	Infield Skin (Sq Ft)	Tons/Inch
Official Baseball w/ Grass Infield	90'	60'6"	10"	95'	11,550	53.50
Official Baseball w/o Grass Infield	90'	60'6"	10"	95'	18,300	84.50
Pony Baseball w/ Grass Infield	80'	54'	8"	80'	8,400	39.00
Pony Baseball w/o Grass Infield	80'	54'	8"	80'	10,050	46.50
PeeWee w/ Grass Infield	75'	50'	6"	80'	8,400	39.00
PeeWee w/o Grass Infield	75'	50'	6"	80'	10,050	46.50
Slo-Pitch	65'	46'	n/a	65'	9,300	43.00
Little League w/ Grass Infield	60'	46'	6"	50'	3,850	18.00
Little League w/o Grass Infield	60'	46'	6"	50'	6,700	31.00
Softball	60'	46'	n/a	60'	8,350	38.50
Softball	60'	46'	n/a	75'	11,256	52.00

Note: Volumes include a 30% compaction rate.

Measurements used are standard regulation size for each specific league. For custom designs please refer to "Material Requirements Infield Skin" square footage of infield or contact your local dealer for assistance. Mar-Co Clay also provides an estimation program on www.marcoclay.com please contact your local dealer to request privileges.



Infield Product Tonnage Calculations (Metric)

Type of Field	Base Length	Pitching Distance	Pitching Height	Infield Arc Radius	Infield Skin (Sq M)	Tonnes/CM
Official Baseball w/ Grass Infield	27.43 m	18.39 m	0.25 m	28.96 m	1,075	19.10
Official Baseball w/o Grass Infield	27.43 m	18.39 m	0.25 m	28.96 m	1,700	30.18
Pony Baseball w/ Grass Infield	24.38 m	16.46 m	0.20 m	24.38 m	780	13.93
Pony Baseball w/o Grass Infield	24.38 m	16.46 m	0.20 m	24.38 m	935	16.61
PeeWee w/ Grass Infield	22.86 m	15.24 m	0.15 m	24.38 m	780	13.93
PeeWee w/o Grass Infield	22.86 m	15.24 m	0.15 m	24.38 m	935	16.61
Slo-Pitch	19.81 m	14.02	n/a	19.81 m	865	15.36
Little League w/ Grass Infield	18.29	14.02	0.15 m	15.24 m	360	6.43
Little League w/o Grass Infield	18.29	14.02	0.15 m	15.24 m	620	11.07
Softball	18.29	14.02	n/a	18.29 m	775	13.75
Softball	18.29	14.02	n/a	22.86 m	1,045	18.57

Note: Volumes include a 30% compaction rate.

Measurements used are standard regulation size for each specific league. For custom designs please refer to “Material Requirements Infield Skin” square footage of infield or contact your local dealer for assistance. Mar-Co Clay also provides an estimation program on www.marcoclay.com please contact your local dealer to request privileges.

Material Requirements (Imperial)

Infield Skin

Sq. Ft of Infield	Infield Clay @ 1" Inch Depth
1,000	4.75 tons
2,000	9.25 tons
3,000	13.75 tons
4,000	18.5 tons
5,000	23.0 tons
6,000	27.75 tons
7,000	32.25 tons
8,000	37.0 tons
9,000	41.5 tons
10,000	46.0 tons

Note: Volumes include a 30% compaction rate.

Pitcher's Mound

Mound Radius	Mar-Co Mound Clay per Inch of Height
5'	0.25 tons
8'	0.60 tons
9'	0.75 tons

Home Plate Area

Home Base Radius	Home Base Blend @ 1" Inch Depth
10'	1.75 tons
13'	3.0 tons

Note: Pitchers Mound and Home Plate Area volumes include a 50% compaction rate.



Material Requirements (Metric)

Infield Skin

Sq. M of Infield	Infield Clay @ 1" CM Depth
100	1.75 tonnes
200	3.50 tonnes
300	5.25 tonnes
400	7.00 tonnes
500	9.00 tonnes
600	10.75 tonnes
700	12.50 tonnes
800	14.25 tonnes
900	16.00 tonnes
1,000	17.75 tonnes

Note: Volumes include a 30% compaction rate.

Pitcher's Mound

Mound Radius	Mar-Co Mound Clay per CM of Height
1.5 M	0.10 tonnes
2.5 M	0.25 tonnes
2.75 M	0.30 tonnes

Home Plate Area

Home Base Radius	Home Base Blend @ 1 CM Depth
3 M	0.75 tonnes
4 M	1.00 tonne

Note: Pitchers Mound and Home Plate Area volumes include a 50% compaction rate.



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Baseball

Infield

Maintenance



Fundamentals of General Field Maintenance

1. Field classification sets the standard
2. Appropriate machinery is essential
3. Day to day maintenance is NOT a Major Restoration
4. Proper materials are required
5. Types of maintenance
 - Spring tune up
 - Day to day
 - Fall shut down
6. Safety issues
 - Uneven surfaces
 - Batters boxes unlevelled and unstable
 - Low and/or high areas
 - Lips at grass edges are
 - ❖ A trip hazard
 - ❖ Potential bad hop hazard
 - ❖ Bad playability results
 - Texture of skin surface can cause injury
 - Poor playability
 - Improperly set bases
7. Adequate training



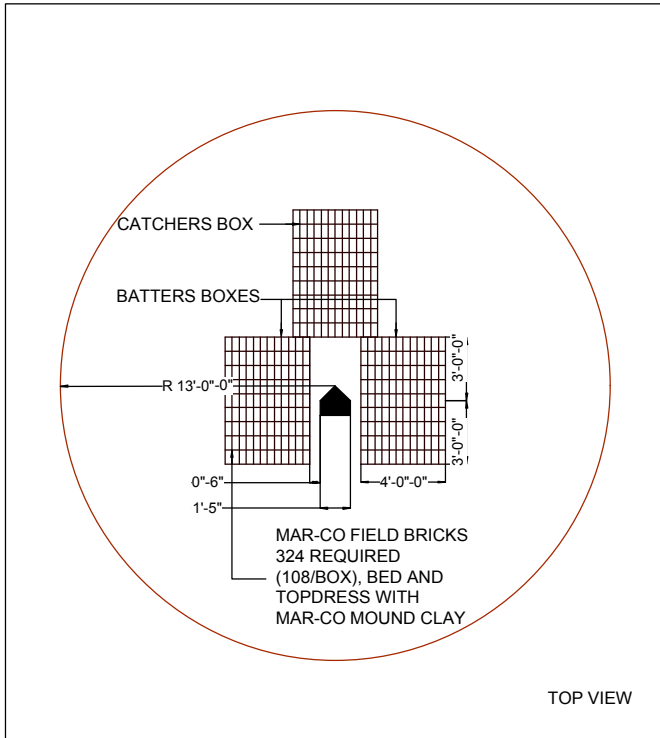
Home Plate Maintenance

Equipment Required

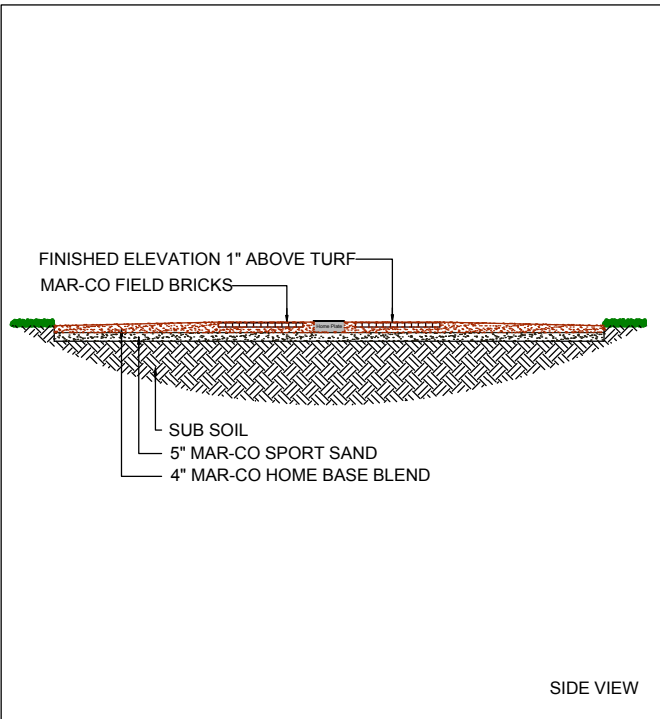
- Water (Garden Can)
- Stiff broom
- Hand tamp
- Wide field rake (screening)
- Proper materials

Procedures

- ✓ Check for position (see layout drawings)
- ✓ Check for proper height
- ✓ Batters boxes restoration procedures:
 - Sweep out divots and holes
 - Apply moisture lightly to prepare a bond
 - Fill the holes with good moist packing clay
 - Tamp down firmly – repeat if necessary
 - Spread around any loose materials
 - Dampen lightly with hose if available
- ✓ Proper grading in home plate area
- ✓ Lip maintenance at grass
- ✓ Water lightly with hose if available
- ✓ Tarp if available



TOP VIEW



SIDE VIEW

Home Plate Installation Procedures

Spread MAR-CO SPORT SAND evenly over sub grade to a compacted depth of 5", within 4" of the finished grade.

Install the MAR-CO HOME PLATE using compacted MAR-CO MOUND CLAY over the sport sand to level and elevate the home plate 1" above the home plate radius edge.

Spread MAR-CO MOUND CLAY in the batters and catchers boxes evenly over the sport sand to a compacted depth of 1". Dampen the area with water to assist the bonding of the MOUND CLAY and MAR-CO FIELD BRICKS.

Install MAR-CO FIELD BRICKS in a tightly laid pattern as shown on Top View. Spread a thin layer of MAR-CO MOUND CLAY over the bricks to fill any cracks and tamp firmly.

Spread MAR-CO HOME BASE BLEND inside the home plate radius, grade from edge of batters boxes to the grass edge.

Compact the home plate area and continue to spread and grade HOME BASE BLEND until the required elevations are achieved.



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HOME PLATE INSTALLATION

Date

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Mound Maintenance

Equipment Required

- Water (Garden Can)
- Stiff broom
- Hand tamp
- Field rake
- Mound gauge
- Packing Clay

Procedures

- ✓ Check for height and condition of the rubber (see layout drawings)
- ✓ Set up the mound gauge to check mound slope (see drawings)
- ✓ Sweep out any loose materials from divots
- ✓ Apply water lightly to create a bond
- ✓ Install moist packing clay
- ✓ Tamp down hard with hand tamp
- ✓ Sweep any loose materials out of grass surrounding the mound
- ✓ Rake any loose materials around the mound surface
- ✓ Water lightly with hose if available

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Edges and Lip Maintenance

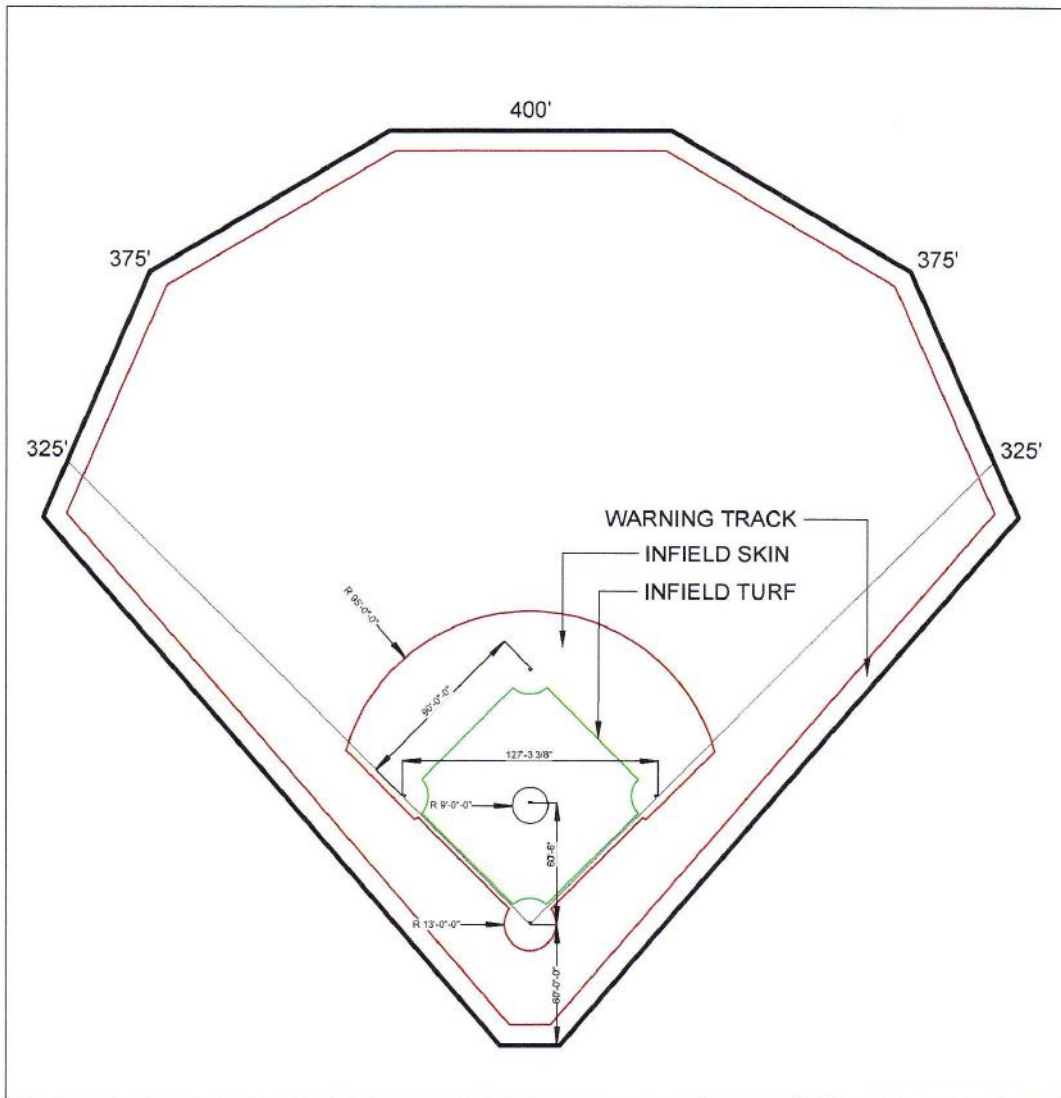
Equipment Required

- Marking paint
- Sod cutter
- Gas powered edger
- Stiff broom or power broom
- Field rake (screening)
- String line
- Tape measure
- 12" nails

Procedures

- ✓ Mark and cut sharp edges in the spring (see drawings for measurements)
- ✓ Cut along the mark with edger
- ✓ Cut out the sod with a sod cutter
- ✓ Fill in cavity with matching infield materials
- ✓ Sweep edges on a regular basis
- ✓ Keep from pulling material into grass edges. Some material always remains which will build a lip, little by little.

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BASEBALL FIELD SPECIFICATIONS

Date

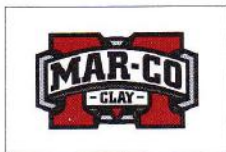
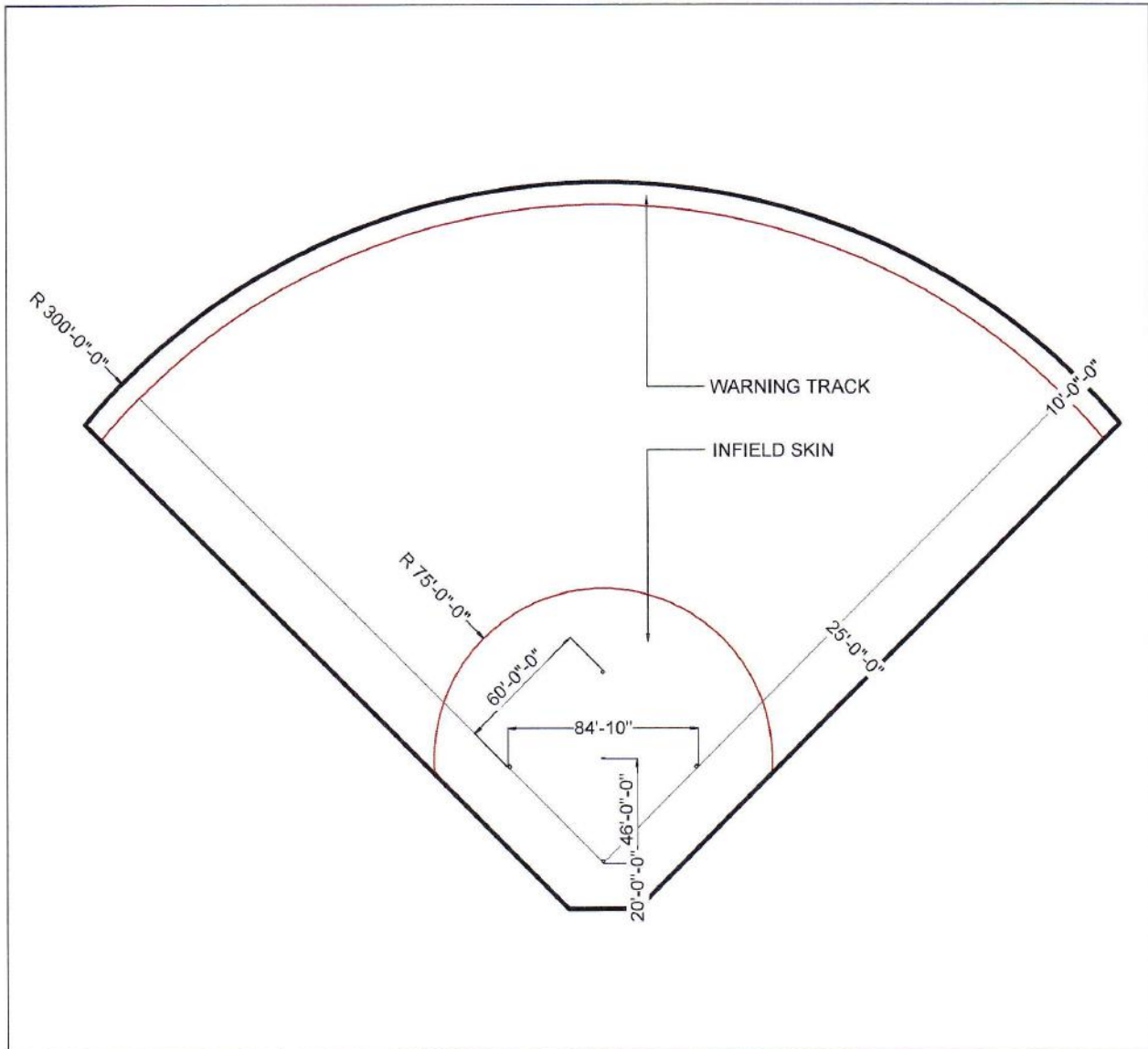
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SOFTBALL FIELD SPECIFICATIONS

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SB1



Infield Grooming

General Grooming Principles

1. Remove the bases and put in the hair plugs
2. Operate at a moderate speed (fast walk)
3. NEVER drag onto the grass
4. Grooming is only working the top ¼" of the surface
5. Grooming is not reshaping the surface – that's restoration
6. Grooming is conditioning the top for play
7. Always start and stop at a different spot
8. Use different patterns each day (see patterns)
9. Always keep away 1 foot from any grass edge
10. Rake the last 1 foot with a 3 foot screening rake
11. Grooming can open surface to manage the moisture
12. Depth needs to be controlled by the operator

Grooming Machine Set Up

- Manufacturers' set up standards apply (see set up fact sheets)
- Hydraulic top links are a big benefit

Mar-Co Clay Products Inc
Canada: 800-950-2555
Email: sales@marcoclay.com

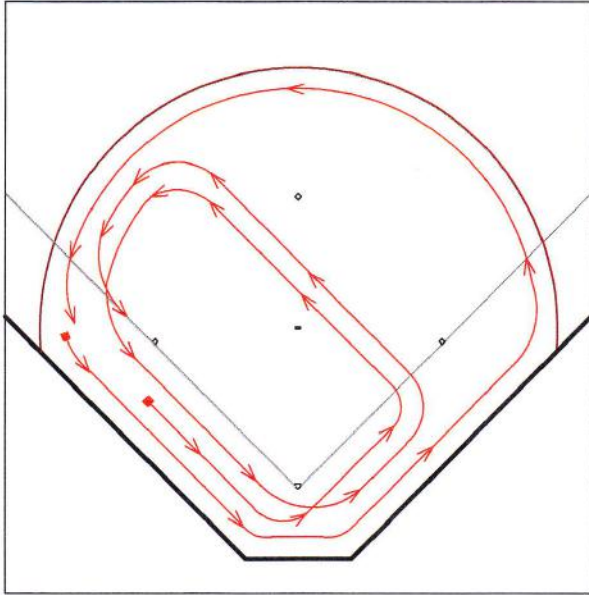


Mar-Co Clay USA Inc
USA: 866-344-9362
Email: salesusa@marcoclay.com

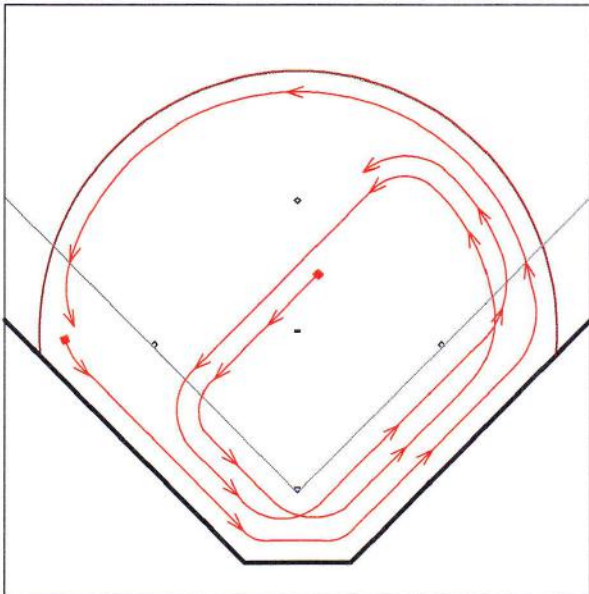
Grooming Patterns

1. Third to home
2. First to home/home to first
3. Second to home/home to second
4. First to third/third to first
5. Inside out
6. Outside in
7. Figure 8 pattern
8. Straight pattern
9. Circle pattern

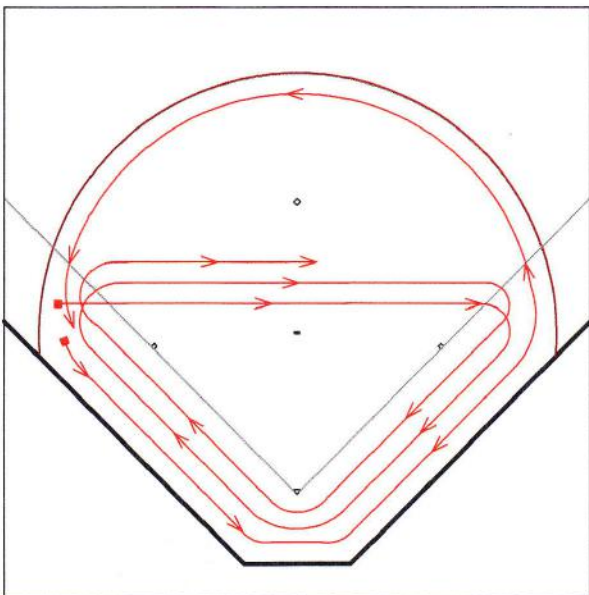
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1. THIRD TO HOME



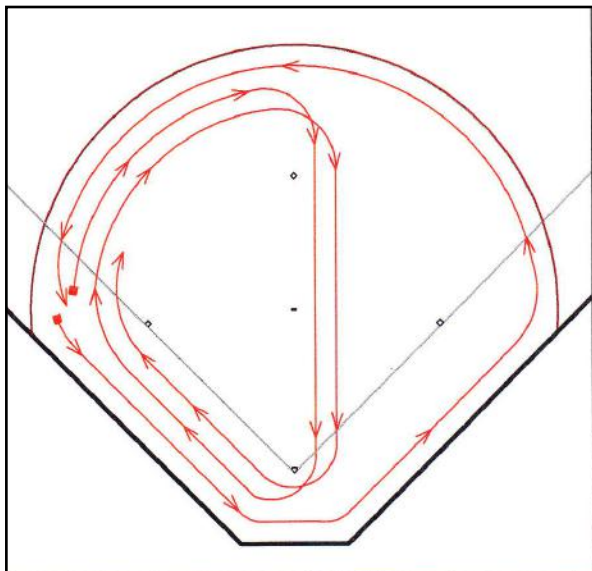
2. FIRST TO HOME



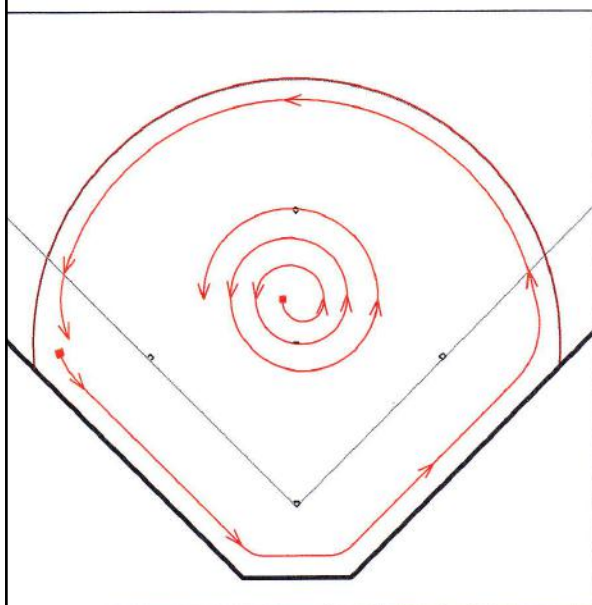
3. FIRST TO THIRD

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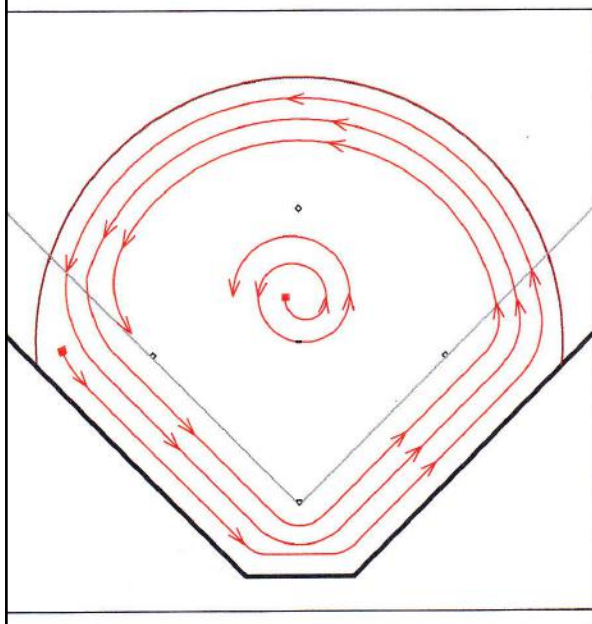




4. SECOND TO HOME



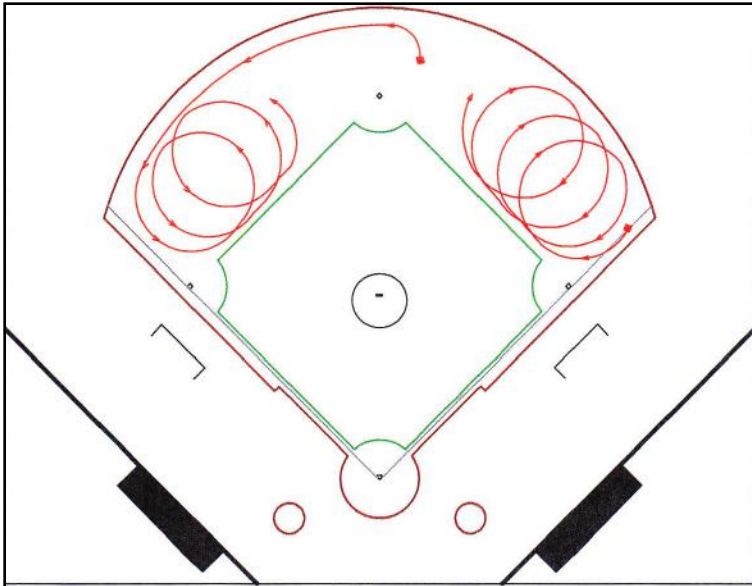
5. INSIDE OUT



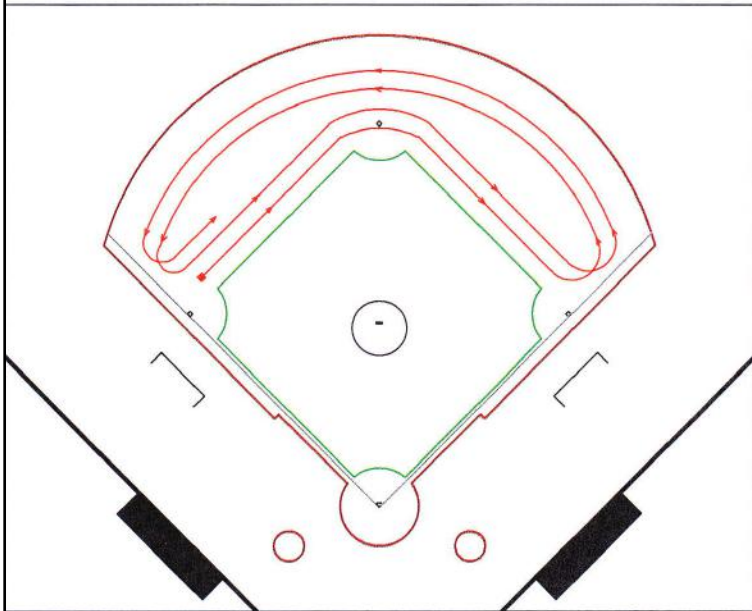
6. OUTSIDE IN

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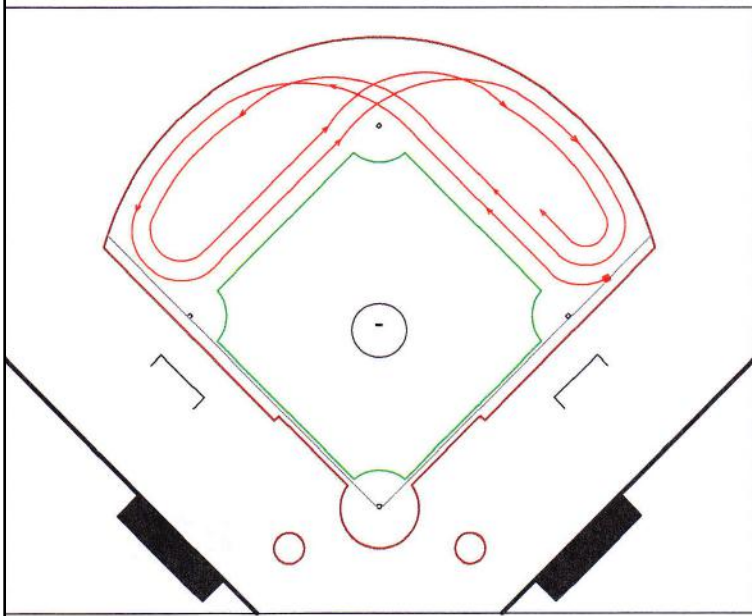




7. CIRCLE PATTERN



8. STRAIGHT PATTERN



9. FIGURE 8

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