

Real Property

Version 1.6 released on 6/29/23

DO NOT USE FOR: Contracts, Deeds, Easements, Law Suits, or Leases



PW0120626

CITY COUNCIL USE ONLY

Date Received: _____
 Committee Date: _____
 1st Agenda Date: _____

Tracking #: _____
 Committee: _____
 Hearing Date: _____
 2nd Agenda Date: _____

CITY CLERK USE ONLY

☐ Scanned Date: 07.10.2024
☐ Posted Item #: 2407.01706

All department items requiring Council approval must be submitted through the Mayor's Office.

Primary Details

Board Approval

Other Board Name

City Council Approval

☒ Yes ☐ No

Department

Public Works

Contact Name

Tony Glynn

Email

TGLYNN@cityoftulsa.org

Phone

918-596-9245

Real Property Record Type

License Agreement or Revocation

Name

The Southern Pointe Homeowners Association

Owner-Grantor, Buyer, Seller, etc.

Subject (Description)

Install and maintain certain improvements.

Bid/Project Number

5-4-24-39

Project Title

Council District

8

Section

15

Township

18

Range

13

Parcel

Lot

Block

Addition

Southern Pointe

Address

E 87th Street and S Yale Avenue

Additional Information/Tracking Number

Physical property address or cross streets. Do not include punctuation marks.

Budget

Funding Source(s)

TOTAL:

Enter the funding source(s) using the appropriate Munis funding format: Org (Allocation Code)-Object-Amount (1001211-531401-\$10.00) or Project String-Amount (144104.AbstrTitle5413102.6001-4043122-541102-\$30,000.01)

Approvals

Department:

Legal:

Board:

Mayor:

Other:

Date:

Date:

Date:

Date:

Date:

A24-3092

Policy Statement

Background information

Submitted is a license agreement between the City of Tulsa and The Southern Pointe Homeowners Association, to install, use, and maintain specialized cobblestone pavement and eastern landscape island feature in and upon the street right of way. The location is shown in the attached Exhibit. The request for the license agreement was reviewed by City of Tulsa staff, representatives of various authorities, boards, commissions, and private utilities with no objections. The Public Works Department recommends approval of the attached license agreement.

Provide Background information on the requested action.

Summation of the Requested Action

Approval of this license agreement.

PDZ

MSL:

Summarize the pertinent details of the requested action.

Other Pertinent Details

Location: E 84th Street and S Yale Avenue, Tulsa, OK 74137; S15-T18-R13, 5-4-24-39

Provide any additional information that should be considered when considering approval of this contract document.

Processing Information for City Clerk's Office

Post Execution Processing

- ☐ Mail vendor copy (add'l signature copies attached)
- ☒ **Must be filed with other governmental entity**
- ☐ Add'l governmental entity approval(s) required

Additional Routing and Processing Details

Original to be picked up by Courtney Jones 596-9549

LICENSE AGREEMENT

THIS AGREEMENT, made and entered into by and between the **CITY OF TULSA, OKLAHOMA**, a municipal corporation, 175 East Second Street, Tulsa, OK 74103 (hereinafter referred to as "City") and **THE SOUTHERN POINTE HOMEOWNERS ASSOCIATION, an Oklahoma not for profit corporation** (hereinafter referred to as "Licensee"),

WITNESSETH:

WHEREAS, City owns certain street right-of-way, adjacent to:

RESERVE A of SOUTHERN POINTE, an addition in the City of Tulsa, Tulsa County, State of Oklahoma, according to the recorded Plat No. 4701 thereof;

WHEREAS, Licensee has applied for a license to install, use, and maintain certain improvements, to-wit: **specialized cobblestone pavement and eastern landscape island feature** in and upon the said street right-of-way, and

WHEREAS, City is agreeable to the issuance of said license, subject to the covenants and conditions set forth below;

NOW, THEREFORE, IT IS HEREBY AGREED BY AND BETWEEN CITY AND LICENSEE AS FOLLOWS:

1. City does hereby grant this license to Licensee to construct, install and maintain the said improvements, in substantial conformity with attached Exhibit "A", in and upon City's street right-of-way, provided that such use does not unreasonably interfere with public use of the said property.
 - The Engineering Staff of the City of Tulsa Public Works Department has reviewed the installer's (Architectural Paving Systems) concrete submittal and deemed it non-compliant with City standard design requirements for paving concrete, as specified in City of Tulsa General Construction Note #23 (prohibiting the use of fly ash in concrete) and the Oklahoma Standard Specifications for Highway Construction (ODOT 2019) (Ref: Section 701-Portland Cement Concrete), as adopted by City Ordinance.
2. This license is unconditionally revocable at any time at the will of City and is subject to and subordinate to City's right to maintain, use, alter or excavate any portion of City's said street right-of-way. This license is subject to and subordinate to any rights heretofore or hereafter granted by City to any public utility or franchise holder, to construct, install, operate, maintain, repair or replace any utility or appurtenance thereto, or to use any portion of City's said street right-of-way. Should removal, construction, and/or excavation become necessary

in City's opinion, Licensee releases City from any liability for any loss or damage to Licensee's improvement(s); City shall not be responsible to replace any of Licensee(s) improvement.

3. The said improvements shall at all times be and remain the property of Licensee. It is specifically agreed that Licensee shall install and maintain said improvements at Licensee's own expense, and at Licensee's own risk. During the term of this agreement, Licensee shall maintain the said improvements in a functional, safe and attractive condition.
4. City, and its employees, officers, elected officials and agents, shall not be liable for any and all claims, suits, actions or judgments, including all expenses, attorney fees, witness fees and costs of defending any such claim, or appeals therefrom, which arise in any way out of Licensee's installation, use or maintenance of said improvements, including, but not limited to, any interference or damage to any third person or property.
5. Upon termination of this license as herein provided, Licensee shall, if City so desires, and after receiving prior written demand from City, remove said improvements and restore the said street right-of-way, as nearly as is practical, to the state and condition of its existence prior to the installation of said improvements, ordinary wear and tear excepted, to the reasonable satisfaction of City.
6. Nothing herein shall release Licensee or its contractors from their duty to obtain necessary permits and comply with all applicable ordinances, laws and regulations, including but not limited to mechanical, electrical and building codes, fire and safety regulations, ADA standards, street-closing and zoning ordinances
7. This license, when duly recorded in the office of the County Clerk, shall bind Licensee's successors in title, and shall run with the land.
8. This license is not assignable or transferable by Licensee without the prior written consent of City.
9. The effective date of this agreement shall be the date on which it is executed by the City of Tulsa

IN WITNESS WHEREOF, the parties hereto have executed this agreement on the dates set forth below.

**THE SOUTHERN POINTE
HOMEOWNERS ASSOCIATION, an
Oklahoma not for profit corporation**

By: 
Name: Floyd Schulte
Title: President

STATE OF OKLAHOMA)
)
COUNTY OF Tulsa) ss

Acknowledged before me this 6th day of June, 2024, by **Floyd Schulte**, as President of the **THE SOUTHERN POINTE HOMEOWNERS ASSOCIATION, an Oklahoma not for profit corporation.**


Notary Public

My Commission Expires:

3-20-27



APPROVED:

Assist
Caroline H. Wolf
Assistant City Attorney

APPROVED:

Jeannie Cue
Director

APPROVED BY CITY COUNCIL:

Date: _____

BY: _____
Jeannie Cue, Chair

STATE OF OKLAHOMA)
) ss.
COUNTY OF TULSA)

Before me, a Notary Public in and for said County and State, on the ____ day of _____, 2024, personally appeared Jeannie Cue, to me known to be the identical person who approved the within and foregoing instrument as Chair of the City Council of the City of Tulsa, Oklahoma, and acknowledged to me that she approved the within and foregoing instrument as her free and voluntary act and deed and as the free and voluntary act and deed of the City Council of the City of Tulsa, Oklahoma, for the uses and purposes therein set forth.

My commission expires:

Notary Public

APPROVED BY MAYOR:

CITY OF TULSA, OKLAHOMA,
a municipal corporation

Date: _____

G. T. Bynum, Mayor

ATTEST:

City Clerk

STATE OF OKLAHOMA)
) ss.
COUNTY OF TULSA)

Before me, a Notary Public in and for said County and State, on the ____ day of _____, 2024, personally appeared G. T. Bynum, to me known to be the identical person who approved the within and foregoing instrument as Mayor of the City of Tulsa, Oklahoma, and acknowledged to me that he approved the within and foregoing instrument as his free and voluntary act and deed and as the free and voluntary act and deed of the City of Tulsa, Oklahoma, for the uses and purposes therein set forth.

Notary Public

My commission expires:



APPLICATION FOR RIGHT-OF-WAY/EASEMENT CLOSURE OR ENCROACHMENT AGREEMENT

Application is hereby made to the City of Tulsa to consider the following:

Choose one: ☐ Closure ☒ Encroachment

Choose one: ☒ Right-of-Way ☐ Easement ☐ Air Space

County Assessor Parcel Number: 77073-83-15-52860 Zoning: RS-3

Property Location: E 87th Street and Yale Ave

Legal Description:

Subdivision: Southern Pointe (77073) Plat No.: _____

Lot: Reserve A Block: _____

Section: 15 Township: 18 Range: 13

If unplatted, attach legal description.

Applicant Name: Patty Parks

Applicant Company: City of Tulsa

Applicant D.B.A.: _____

Address: 175 E 2nd Street City: Tulsa State: OK Zip: 74103

Phone: 918-596-9244 Email: pparks@cityoftulsa.org

Secondary Point of Contact: Doug Helt

Phone: 918-596-9526 Email: dhelt@cityoftulsa.org

Property Owner(s) of Record: Southern Pointe HOA President: Floyd Schultze
C/O Beacon HOA Management

Address: PO Box 784 City: Bixby State: OK Zip: 74008-0744

Phone: 918-231-2619 Email: president@southernpointehoa.com -or- fschulte1@att.net

Signatures:

Applicant: *Patty Parks* Date: 5-2-2024

Property Owner(s): _____ Date: _____

_____ Date: _____

_____ Date: _____

EXHIBIT "A"

Page 1 of 14



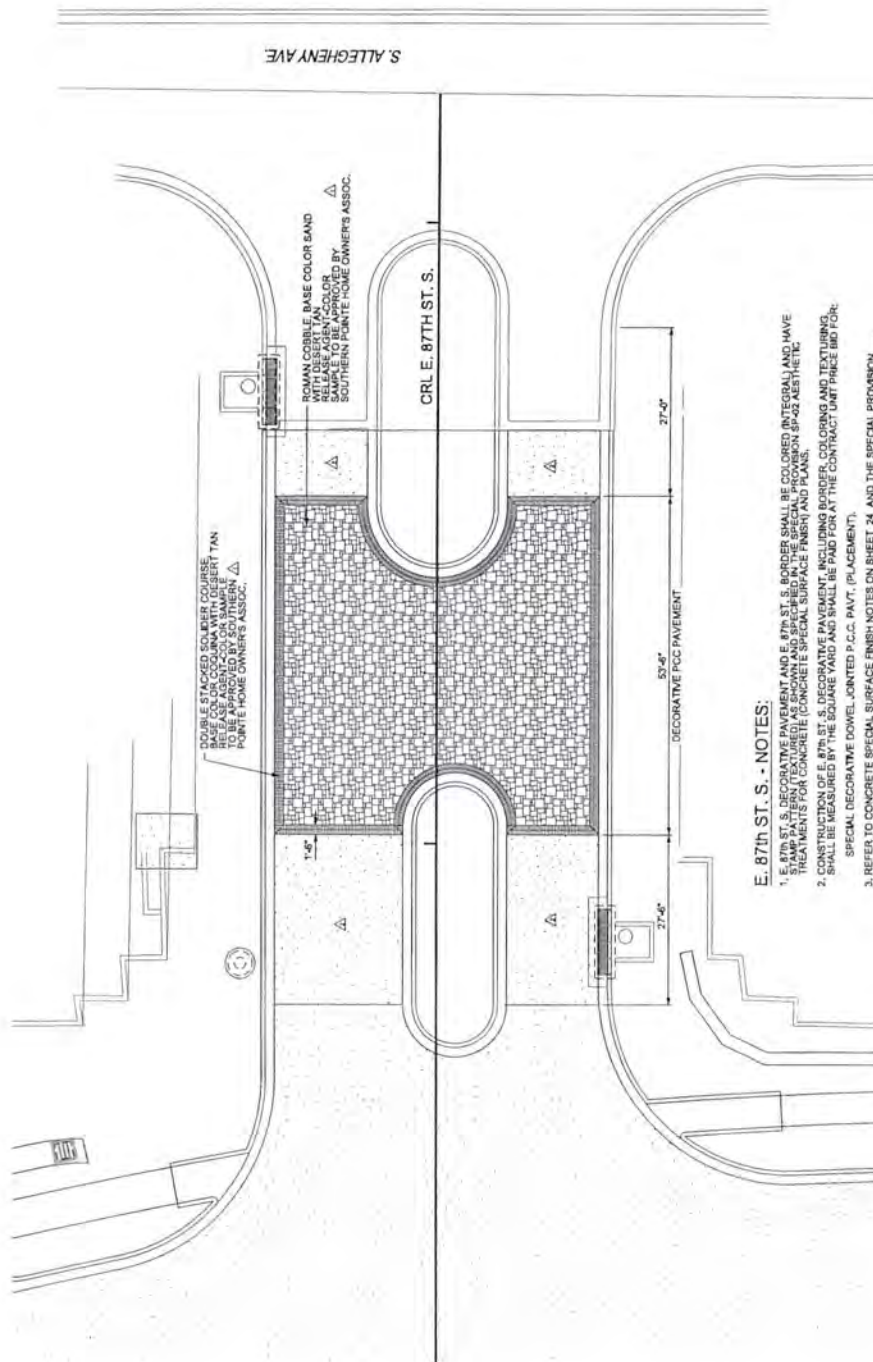
APPLICATION FOR RIGHT-OF-WAY/EASEMENT CLOSURE OR ENCROACHMENT AGREEMENT

Explanation of necessity for closing right-of-way or easement or for encroaching into the right-of-way or easement.

REQUIRED: Legal Description with a Plat of Survey for all closings. For Encroachments, a digital sketch delineating the described request, showing all data pertinent to the property (refer to application instructions).

Type required explanation here.

On E. 87th Street at the entrance to Southern Pointe subdivision, the City of Tulsa as part of the widening project for Yale Avenue from E. 81st Street to E. 91st Street installed a specialized cobblestone pavement treatment to the entrance within the City of Tulsa right-of-way and Southern Pointe Reserve A. (See attached exhibits from construction plan set of the City of Tulsa ROW and Southern Pointe Reserve A.) Once construction of the cobblestone area is complete and accepted by the HOA, the responsibility for maintenance of this cobblestone area within the City of Tulsa right-of-way will be the responsibility of the Southern Point HOA. In addition, the eastern landscape island feature on E. 87th Street is also partially constructed outside the Southern Pointe Reserve A and will be included in this license agreement application for encroachment in the City of Tulsa ROW.



E. 87th ST. S. - NOTES:

1. E. 87th ST. S. DECORATIVE PAVEMENT AND E. 87th ST. S. BORDER SHALL BE COLORED INTEGRAL AND HAVE STAMP PATTERNS (TEXTURED) AS SHOWN AND SPECIFIED IN THE SPECIAL PROVISIONS AND ADVERTISEMENTS FOR CONCRETE (CONCRETE SPECIAL SURFACE FINISH) AND PLANS.
2. CONSTRUCTION OF E. 87th ST. S. DECORATIVE PAVEMENT, INCLUDING BORDER, COLORING AND TEXTURING, SHALL BE MEASURED BY THE SQUARE YARD AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR: SPECIAL DECORATIVE DOWEL JOINTED P.C.C. PAVT. (PLACEMENT).
3. REFER TO CONCRETE SPECIAL SURFACE FINISH NOTES ON SHEET 24 AND THE SPECIAL PROVISIONS, INCLUDING SPECIAL ADVERTISEMENTS, FOR ADDITIONAL INFORMATION REGARDING THE SURFACE TREATMENT FOR E. 87th ST. S.



REVISION	DATE	BY	CHKD	APP'D	DESCRIPTION
1	10/01/2018	JPM	NKL	NKL	CONFORMED CHANGE - JPM
2	10/01/2018	JPM	NKL	NKL	REMOVED PATTERNS CONC. - JPM
3	10/01/2018	JPM	NKL	NKL	PROJECT NAME
4	10/01/2018	JPM	NKL	NKL	PROJECT NO.
5	10/01/2018	JPM	NKL	NKL	PROJECT LOCATION
6	10/01/2018	JPM	NKL	NKL	PROJECT DRAWN BY
7	10/01/2018	JPM	NKL	NKL	PROJECT CHECKED BY
8	10/01/2018	JPM	NKL	NKL	PROJECT APPROVED BY
9	10/01/2018	JPM	NKL	NKL	PROJECT DATE
10	10/01/2018	JPM	NKL	NKL	PROJECT SCALE
11	10/01/2018	JPM	NKL	NKL	PROJECT SHEET NO.
12	10/01/2018	JPM	NKL	NKL	PROJECT TOTAL SHEETS
13	10/01/2018	JPM	NKL	NKL	PROJECT CLIENT
14	10/01/2018	JPM	NKL	NKL	PROJECT ADDRESS
15	10/01/2018	JPM	NKL	NKL	PROJECT PHONE NO.
16	10/01/2018	JPM	NKL	NKL	PROJECT FAX NO.
17	10/01/2018	JPM	NKL	NKL	PROJECT E-MAIL
18	10/01/2018	JPM	NKL	NKL	PROJECT WEBSITE
19	10/01/2018	JPM	NKL	NKL	PROJECT SOCIAL MEDIA
20	10/01/2018	JPM	NKL	NKL	PROJECT OTHER

LICENSING AGREEMENT EXHIBIT
 ARTERIAL STREET WIDENING
 SOUTH YALE AVENUE
 81st STREET SOUTH TO 91st STREET SOUTH
 PROJECT NO. 144101
 CITY OF TULSA, OKLAHOMA
 ENGINEERING SERVICES DEPARTMENT

BENHAM
 Benham Design, LLC
 1000 N. W. 10th St., Suite 100
 Tulsa, OK 74103
 (918) 581-1000
 DATE: OCTOBER 2018
 SHEET 25 OF 34 SHEETS

TWIN CITIES READY MIX, INC.

Batch Design Submittal

Architectural Paving

5/17/24

PROJECT: Southern Point Entrance
87th and Yale
Tulsa, Oklahoma

PRODUCTION PLANT:

Metro

GENTLEMEN:

TWIN CITIES READY MIX, INC. IS PLEASED TO SUBMIT THE FOLLOWING READY MIX CONCRETE BATCH DESIGNS FOR APPROVAL ON YOUR ABOVE REFERENCED PROJECT.

MATERIALS INCORPORATED IN THE DESIGNS MEET THE REQUIREMENTS OF THE FOLLOWING ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS) DESIGNATIONS: C-150, C-618, C-33, C-260, AND C-494. MIX DESIGN WEIGHTS ARE BASED ON (S.S.D.) SATURATED, SURFACE DRY CONDITION OF THE AGGREGATES.

ALL MIX DESIGNS ARE FIGURED BY THE ABSOLUTE VOLUME METHOD AND AGGREGATE PROPORTIONING IS BASED ON THE FIELD EXPERIENCE METHOD

STRENGTH GUARANTEES ARE BASED UPON THE CONCRETE'S BEING PRODUCED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C-94, DELIVERED WITHIN PROJECT SPECIFICATIONS, TO INCLUDE SLUMP, TEMPERATURE, AND TIME. EVALUATION OF CONCRETE MUST BE DONE IN ACCORDANCE WITH CURRENT ASTM STANDARDS. ALL TEST SAMPLES MUST BE TAKEN AT THE MIXER DISCHARGE CHUTE.

WHEN ORDERING CONCRETE FOR YOUR PROJECT PLEASE REFER TO THE SPECIFIC PROJECT AND TO ONE OF THE FOLLOWING DESIGNATED MIX DESIGN #'S.

ONE CUBIC YARD WEIGHTS

		MIX DESIGN	MIX DESIGN	MIX DESIGN	MIX DESIGN	MIX DESIGN	MIX DESIGN
DESIGN #		35-1A-3/4					
STRENGTH	psi	3500 PSI AE					
CRS. AGG.	Size	#67					
CEMENT	lbs	423					
FLYASH	lbs	47					
CRS. AGG.	lbs	1730					
SAND	lbs	1435					
WATER	gals	29					
P150	ozs	19					
740	ozs						
HRWR	ozs						
Air Content	%	6 +/- 1.5					
Slump Range	inch	5 +/- 1					
W/C RATIO		0.51					
Usage		Stamp Mix					

TWIN CITIES READY MIX, INC.

Tim Grzelak

** PLEASE CALL IF THERE ARE ANY QUESTIONS

EXHIBIT "A"

Page 5 of 14

TWIN CITIES READY MIX, INC.

Quality Control Department
" Standard Deviation (ACI 301) "

Contractor : Architectural Paving
Project : Southern Point Entrance

Mix Code : 35-1A-3/4

Date: 5/17/2024

Design Strength ($f'c$) : 3500 psi

Max W/C Ratio : 0.51

Notes : Stamp Mix
28 days Break Results

Test #	Cyl # 1 psi	Cyl # 2 psi	1 & 2 avg
1	4550	4620	4585
2	4170	4480	4325
3	4770	4120	4445
4	4180	4130	4155
5	5010	5230	5120
6	4760	5130	4945
7	4270	4630	4450
8	4960	4880	4920
9	4920	4800	4860
10	4980	4820	4900
11	4470	4430	4450
12	4200	4290	4245
13	5420	4680	5050
14	5600	5670	5635
15	4520	4740	4630

Test #	Cyl # 1 psi	Cyl # 2 psi	1 & 2 avg
16	4830	4700	4765
17	5170	5300	5235
18	5200	5250	5225
19	4700	4700	4700
20	5350	5100	5225
21	5300	5410	5355
22	5250	5200	5225
23	5200	5400	5300
24	5350	5400	5375
25	4700	4780	4740
26	4950	5200	5075
27	5390	5500	5445
28	5400	5400	5400
29	5120	5230	5175
30	5050	5350	5200

RESULTS & CALCULATIONS BASED ON 30 TEST REPORTS

Minimum Test Report -----> 4120 psi
Maximum Test Report -----> 5670 psi
Average Strength -----> 4939 psi
Standard Deviation -----> 395 psi
ACI modifier (k - factor) -----> 1.00
ACI modifier (k - factor) of 1.00 X 395 = Modified Standard Deviation -----> 395 psi
Specified design strength ($f'c$) -----> 3500 psi
ACI equation # 1 = $f'cr = f'c + (1.34 \times 395)$ -----> 4029 psi
ACI equation # 2 = $f'cr = f'c + (2.33 \times 395 - 500)$ -----> 3920 psi

$f'cr$ (required) = Larger of ACI equations # 1 or # 2 -----> 4029 psi
Coefficient of Variation (C_v) -----> 0.080
Coefficient of Variation (% C_v) Expressed as a percentage -----> 7.99%

$f'c$ = specified design strength of concrete

$f'cr$ = Required minimum average compressive strength of concrete using ACI 301 method

EXHIBIT "A"

Page 6 of 14

Buzzi Cement Plant
2430 S 437 Rd

Pryor Oklahoma
Phone: 918-825-1937

Mill Test Report

Cement Type: Type IL (10)
Manufacture Date: N/A
Silo Number: 15,16

From: September 1, 2023
To: September 30, 2023

Chemical

SiO ₂ (%)		<u>18.6</u>
Al ₂ O ₃ (%)		<u>4.5</u>
Fe ₂ O ₃ (%)		<u>2.9</u>
CaO (%)		<u>62.2</u>
MgO (%)		<u>1.7</u>
SO ₃ (%)		<u>4.1</u>
Total Alkali (Na ₂ O + 0.658K ₂ O)	Avg	<u>0.48</u>
	Max	<u>0.55</u>
	Min	<u>0.43</u>
Ignition Loss		<u>5.11</u>
Specific Gravity		<u>3.05</u>
Limestone (%)		<u>10.39</u>
C ₃ A (%)**		<u>7.1</u>

** Informative

Physical

Time of Set (Vicat)		
Initial Set (min.)		<u>124</u>
Final Set (min.)		<u>222</u>
Compressive Strength	PSI	MPa
1 Day	<u>2090</u>	<u>14.4</u>
3 Day	<u>4071</u>	<u>28.1</u>
7 Day	<u>4951</u>	<u>34.1</u>
28 Day*	<u>6017</u>	<u>41.5</u>
*Previous month average		
Cube Flow		
Fineness, Blaine (cm ² /g)	<u>5110</u>	
325 Mesh (%)	<u>93.4</u>	
Air Content (%)	<u>4.9</u>	
Normal Consistency (%)	<u>26.4</u>	
False Set (%)	<u>87</u>	
Autoclave Expansion (%)	<u>0.019</u>	
Wet Expansion (C1038)	<u>0.01</u>	

We certify that the above described cement, at the time of shipment, meets the chemical and physical requirements of ASTM C-595.

By John Foley
John Foley - Quality Manager



KCPC

Kansas City Performance Center
15100 E. Courtney Atherton Rd. Sugar Creek, MO 64056
Phone: (816)257-4093 Fax: (816)257-5930

REPORT DATE
FLY ASH SOURCE
COMPOSITE START DATE
COMPOSITE END DATE
SAMPLE IDENTIFICATION

09/25/2023
Northeastern Plant Oolagah
8/1/2023 2:00:00 PM
8/31/2023 2:00:00 PM
NE230801-0831

CHEMICAL ANALYSES

Analysis	Value	ASTM C 618 CLASS C	AASHTO M295 CLASS C
SiO ₂ (silicon dioxide), %	37.14		
Al ₂ O ₃ (aluminum oxide), %	18.48		
Fe ₂ O ₃ (iron oxide), %	5.78		
SiO ₂ +Al ₂ O ₃ +Fe ₂ O ₃ , %	61.40	50 min	50 min
CaO (calcium oxide), %	24.83	>18.0	
MgO (magnesium oxide), %	6.23		
SO ₃ (sulfur trioxide), %	1.33	5.0 max	5.0 max
Moisture content, %	0.11	3.0 max	3.0 max
Loss On Ignition, %	0.22	6.0 max	5.0 max
Na ₂ O (sodium oxide), %	2.16		
K ₂ O (potassium oxide), %	0.51		

PHYSICAL ANALYSES

Fineness, amount retained on #325 sieve, %	12.3	34 max	34 max
variation, points from average	1.6	5 max	5 max
Density, g/cm ³	2.76		
variation from average, %	-1.9	5 max	5 max
Strength Activity Index with Portland Cement at 7 days, % of cement control	99		
Water Requirement, % of cement control	93	105 max	105 max
Soundness, autoclave expansion or contraction, %	0.04	0.8 max	0.8 max

We hereby certify that the fly ash represented by the above chemical and physical analysis meets the requirements of ASTM C 618 and AASHTO M 295.

09/25/2023

Tina M. Tucholski
KCPC Laboratory Manager

ASTM C 618 Note 1 - Finely divided materials may tend to reduce the entrained air content of concrete. Hence, if a mineral admixture is added to any concrete for which entrainment of air is specified, provision should be made to ensure that the specified air content is maintained by air content tests and by use of additional air-entraining admixture or use of an air-entraining admixture in combination with air-entraining hydraulic cement.



East Quarry
3605 N 129th E Ave
Tulsa, OK 74116
918-270-8029

APAC Central

RE: Gradation for the Washed #67

The information below is the average of the test results for the Washed #67 produced at APAC-Central, Inc.
East Quarry, 46th St pit.

021550 - Washed #67

Sieve Test	Result	Unit	ASTM AASHTO 67
25mm	100	%	100-100
#4 4.75mm	100	%	80-100
#10 1.75mm	87	%	
#20 840µm	80	%	20-55
#40 4.75mm	7	%	0-12
#60 2.5mm	2	%	0-5
#80 1.75mm	0	%	
#100 1.5mm	1	%	
#200 750µm	0	%	
#400 375µm	0	%	
#600 250µm	0	%	
#800 190µm	0	%	
#1000 150µm	0	%	
#2000 75µm	0	%	

Sincerely,

Jay Liu
Quality Control Manager

APAC-Central, Inc.
A CRH COMPANY

C (620) 727 4864
E jian.liu@apac.com



Material: ASTM-C33

Date: September 12, 2023

Plant: 17

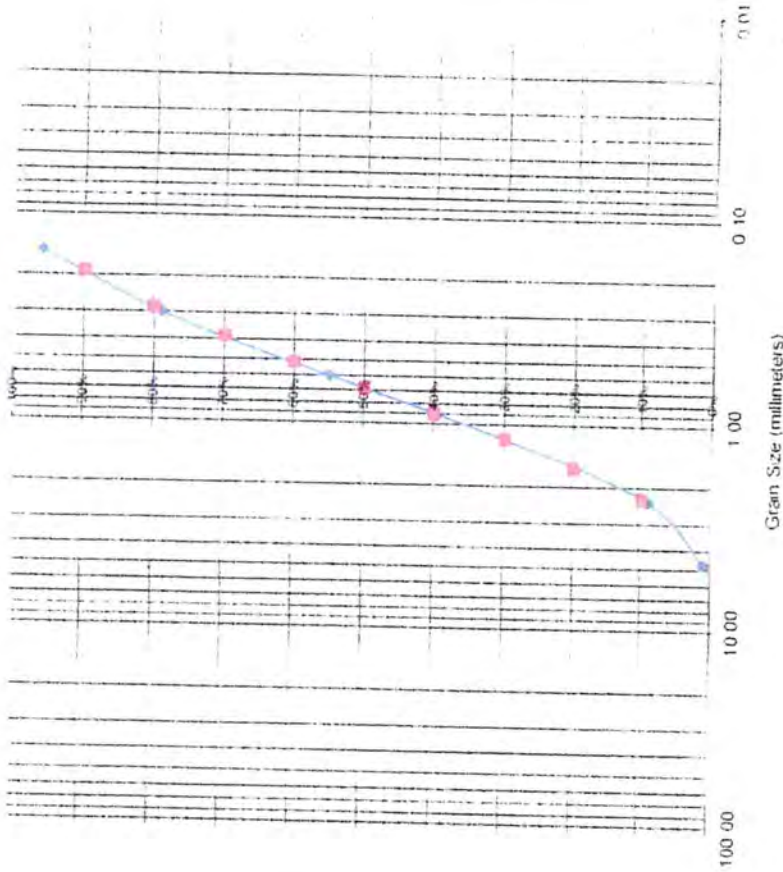
ATTN:

H. Holliday
SAND and GRAVEL
C O M P A N Y

Nominal	Openings mm	Tyler Mesh	U S No	Passing (mm)	Retained (mm)	Min Retained	Max Retained
2"	50.0						
1-3/4"	45.0						
1-1/2"	37.5						
1-1/4"	31.5						
1"	25.0						
7/8"	22.4						
3/4"	19.0						
5/8"	16.0						
1/2"	12.5						
3/8"	9.5			0.0%			
	6.7	3					
	6.3						
	4.75	4	4	99.0%			
	4.00	6	6				
	2.36	8	8	91.0%	9.0%		
	2.00	9	10				
	1.70	10	12				
	1.18	14	16	70.0%	30.0%		
	0.850	20	20				
	0.600	28	30	45.0%	55.0%		
	0.425	35	40				
	0.300	48	50	21.0%	79.0%		
	0.212	65	70				
	0.180	80	80				
	0.150	100	100	4.0%	96.0%		
	0.106	150	140				
	0.075	200	200				

Computed Values

Coeff of Uniformity	D60/D10 =	4.70
Effective Grain Size (mm)	D10 =	0.192
Standard Deviation		2.69
Passing (mm)	Retained (mm)	
10%	0.192	2.283
20%	0.288	1.641
30%	0.389	1.180
40%	0.519	0.900
50%	0.687	0.687
60%	0.900	0.519
70%	1.180	0.389
80%	1.641	0.288
90%	2.283	0.192



Phone 918-369-8850

Fax 918-369-8842

sandsv 0.5 Standard Test Sieve Graph Analysis
Copyright (C) 1998 C R Clark rclark@hollidaysand.com



May 17, 2024

MANUFACTURER'S CERTIFICATION

This is to certify that Chryso® Air 260, manufactured by CHRYSO, Inc. is compatible for use in Portland cement concrete and concrete containing fly ash, Portland-pozzolan cements and GGBF.

This is to certify that Chryso® Air 260 is manufactured under strict quality control conditions and conforms to the mandatory requirements of the following specifications:

American Society For Testing and Materials.....ASTM C-260

United States Corps of Engineers.....CRD C-87

American Association of State Highway and
Transportation Officials.....AASHTO M-154

We further certify that Chryso® Air 260 remains the same in uniformity and equivalence as originally submitted for testing and no chlorides are added during the manufacture of Chryso® Air 260.

Admixtures from the Chryso product lines may not be compatible with other manufacturer's product lines.

Brian D. Breitzman
R & D and Quality Manager - North America

EXHIBIT "A"
Page 11 of 14



WR-1

May 17, 2024

MANUFACTURER'S CERTIFICATION

This is to certify that Chryso® Plast P150, manufactured by CHRYSO, Inc. is compatible for use in Portland cement concrete and concrete containing fly ash, Portland-pozzolan cements and GGBF.

This is to certify that Chryso® Plast P150 is manufactured under strict quality control conditions and conforms to the mandatory requirements of the following specifications:

American Society For Testing and Materials.....ASTM C-494, Type A

United States Corps of Engineers.....CRD C-87

American Association of State Highway and
Transportation Officials.....AASHTO M-194, Type A

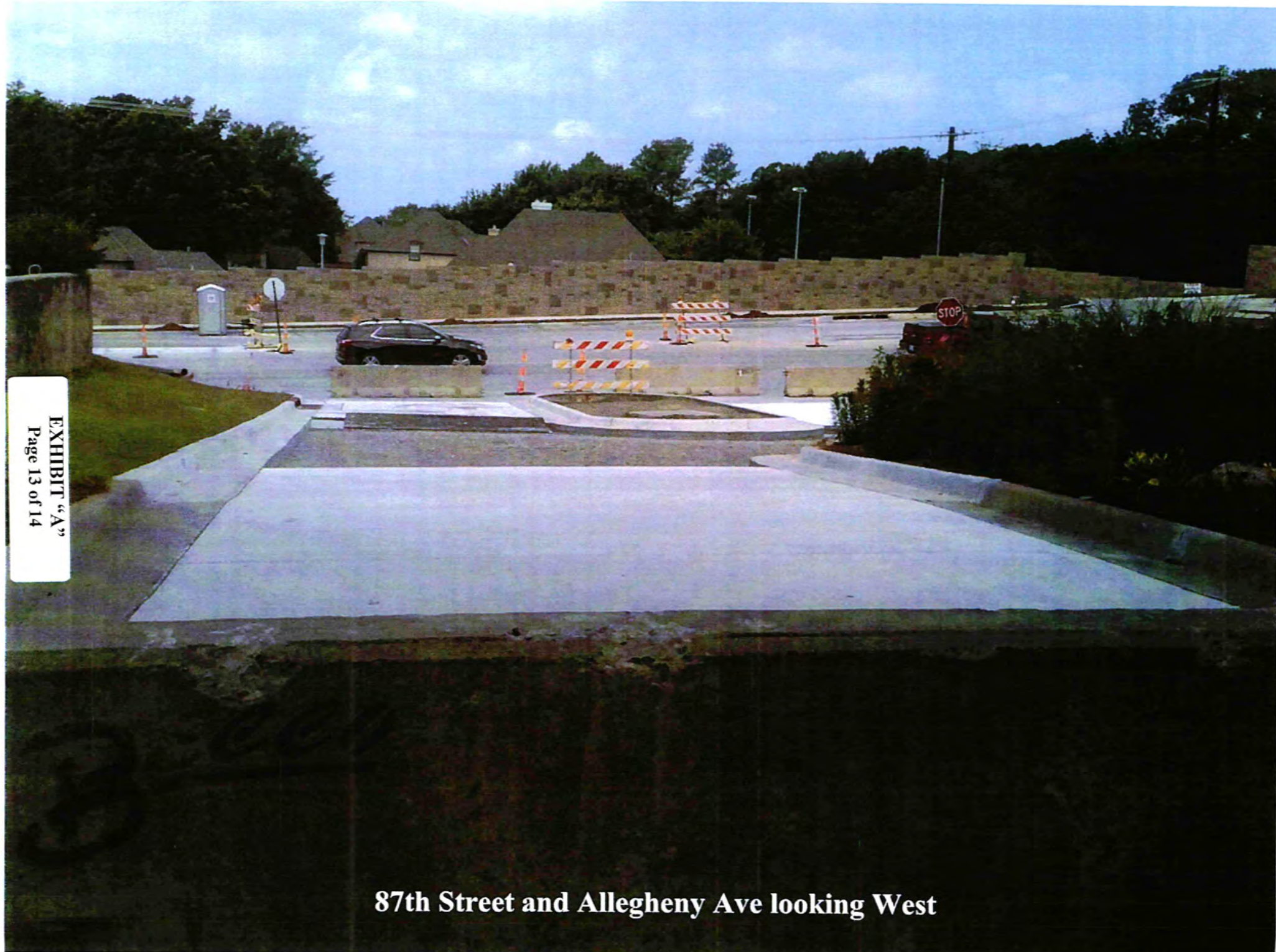
We further certify that Chryso® Plast P150 remains the same in uniformity and equivalence as originally submitted for testing and no chlorides are added during the manufacture of Chryso® Plast P150.

Admixtures from the Chryso product lines may not be compatible with other manufacturer's product lines.

Brian D. Breitzman
R & D and Quality Manager - North America

EXHIBIT "A"
Page 12 of 14

87th Street and Allegheny Ave looking West



87th Street and Yale Ave looking East