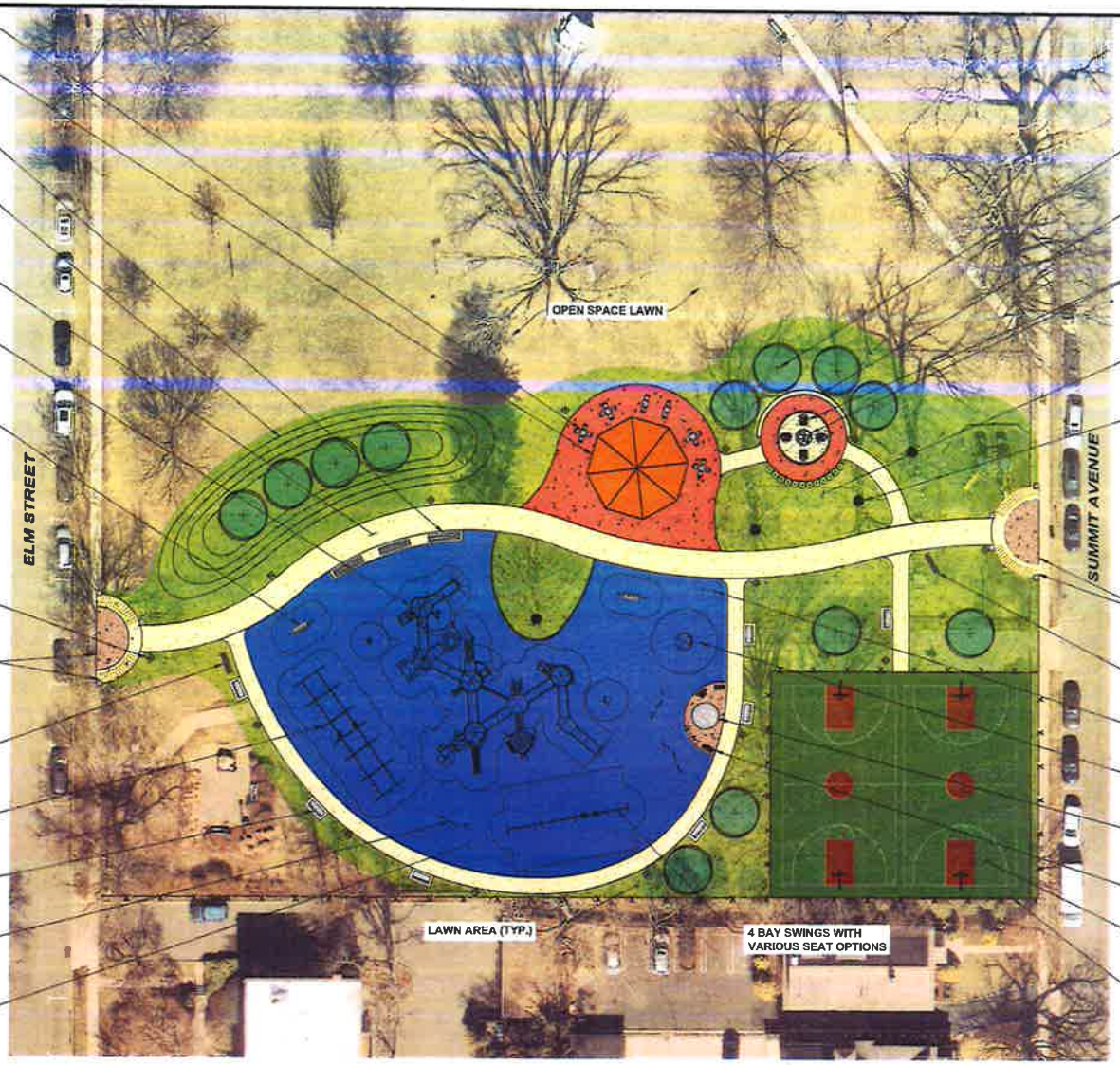
Appendix C

PLAYGROUND CONCEPT PLANS



SCALE: 1"=20'

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CHECKED BY:

JOSEPH D. PERIELLO, LLA
NJ LICENSED LANDSCAPE ARCHITECT
LICENSE NO. 21A50006600

DATE: 01/19/2023

SUBURBAN CONSULTING ENGINEERS, INC.
FOR NJ: PROFESSIONAL ENGINEERS
Civil Engineers • Surveyors & Engineers
Landscape Architects
Planners • Transportation • Traffic Engineers
EXCELLENCE • LEADERSHIP • ENGAGEMENT

EVALUATION OF VARIOUS CITY PLAYGROUNDS CONCEPTUAL DESIGN
CITY OF SUMMIT, COUNTY OF UNION, STATE OF NEW JERSEY

MABIE PLAYGROUND CONCEPT LAYOUT

PROJECT NUMBER: SCC-12075.021
SCALE: 1"=20'
SHEET 1 OF 3
REVISION _-_

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NJ LICENSED LANDSCAPE ARCHITECT
LICENSE NO. 21AS00006600

DATE:01/19/2023

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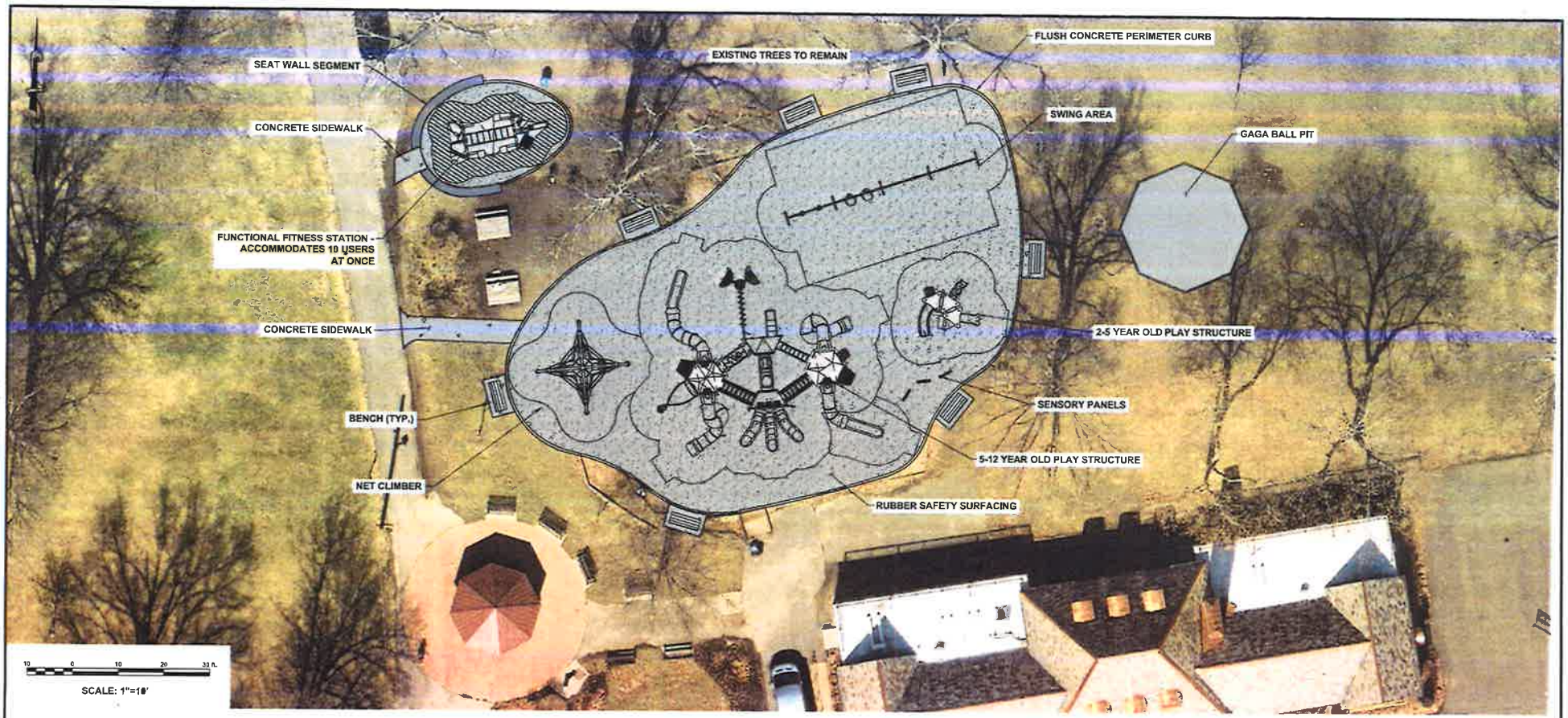
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • LAND SURVEYORS
2950 Highway 35, Suite 100, Toms River, NJ 08755 - 732.244.1179
1011 Route 22 West, Suite 310, Bridgewater, NJ 08807 - 908.526.1179

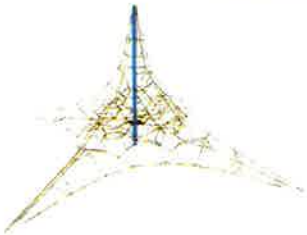
EVALUATION OF VARIOUS CITY PLAYGROUNDS
CONCEPTUAL DESIGN
CITY OF SUMMIT, COUNTY OF UNION, STATE OF NEW JERSEY

SUPPORT GRAPHICS

PROJECT NUMBER: SCE-12575.021
SCALE: N.T.S.
SHEET 2 OF 7
REVISION -

G:\Projects\SCE\Summit\12575 Summit\12575.021 Various Playgrounds\Plans\Sp\12575.021_01.dwg Thu, Jan 19, 2023 - 10:41am agonzalez SUBURBAN CONSULTING ENGINEERS, INC.





EXAMPLE PLAY STRUCTURES & CLIMBERS

EXAMPLE FITNESS STATIONS

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CHECKED BY:

JOSEPH D. PERELLO, LLA
NJ LICENSED LANDSCAPE ARCHITECT
LICENSE NO. 21AS00066600

DATE: 01/19/2023

SUBURBAN CONSULTING ENGINEERS, INC.

EVALUATION OF VARIOUS CITY PLAYGROUNDS CONCEPTUAL DESIGN
CITY OF SUMMIT, COUNTY OF UNION, STATE OF NEW JERSEY

MEMORIAL CONCEPTUAL LAYOUT

PROJECT NUMBER: SCE-12675.021
SCALE: 1"=10'
SHEET 3 OF 7
REVISION: -

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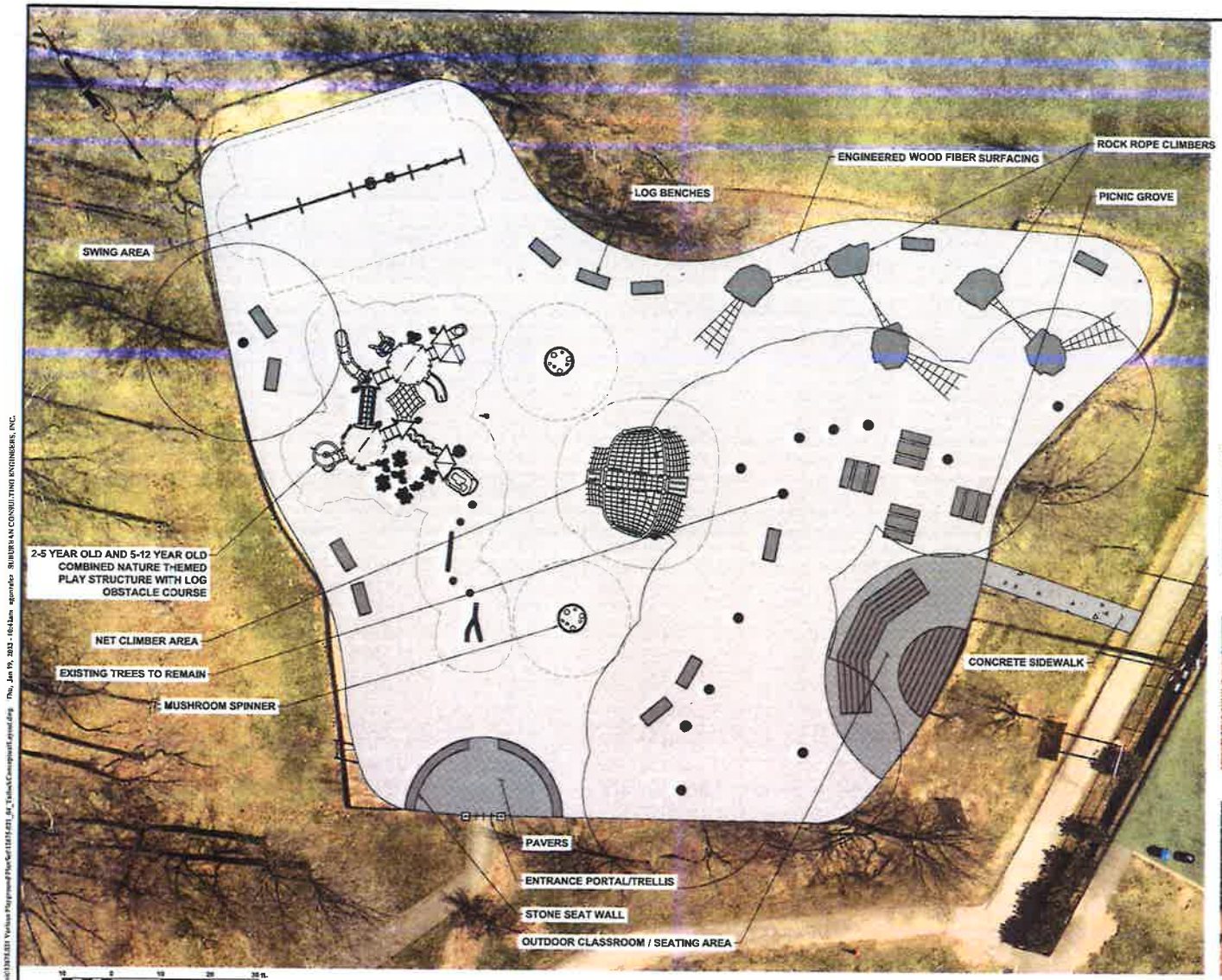

SCALE: 1"=10'

KEY MAP
SCALE: 1"=80'

EXAMPLE PLAYGROUND IMAGES

NOTICE

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CHECKED BY:

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NJ LICENSED LANDSCAPE ARCHITECT
LICENSE NO. 21AS00066600

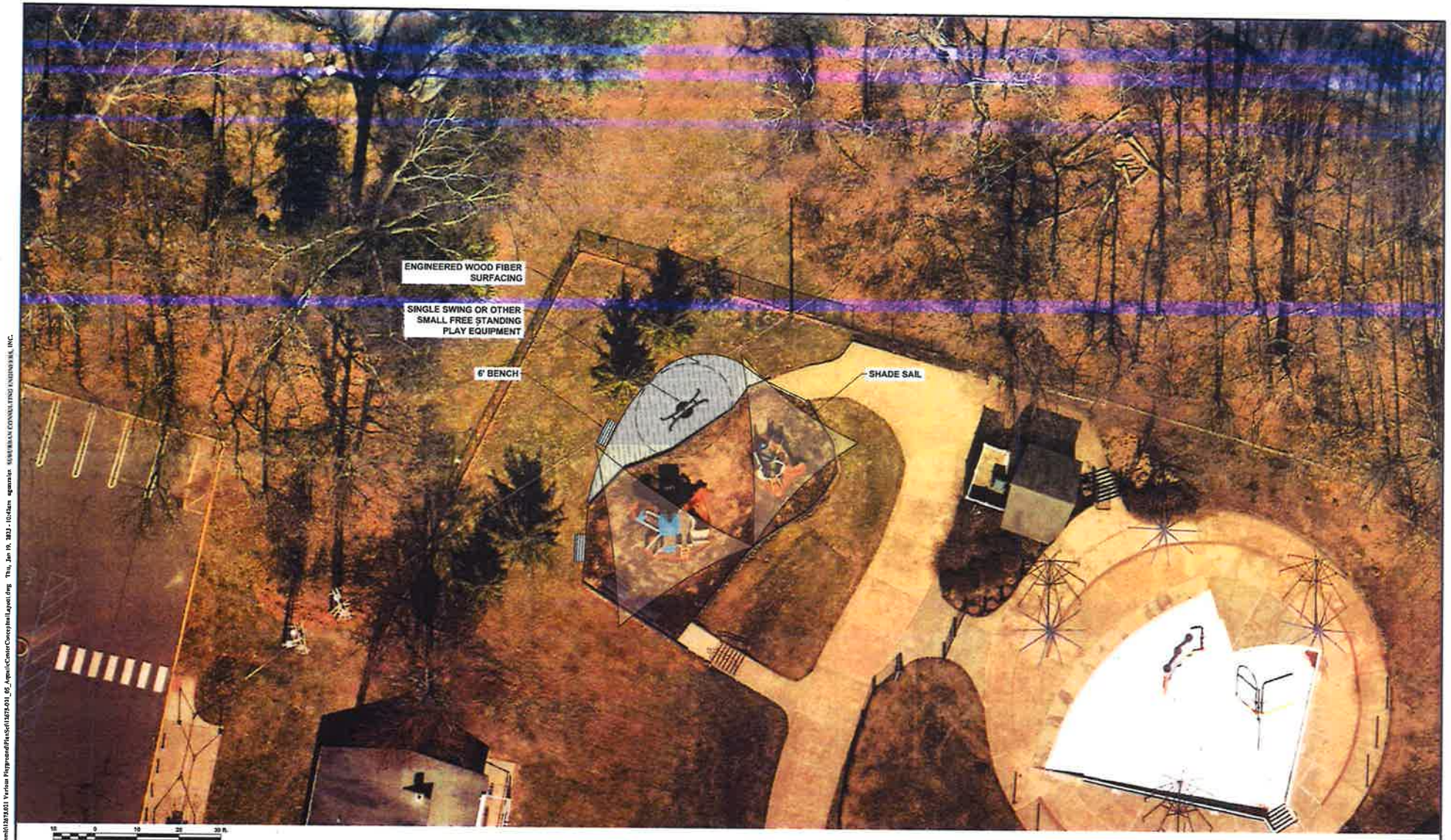
DATE: 01/18/2023

SUBURBAN CONSULTING ENGINEERS, INC.

EVALUATION OF VARIOUS CITY PLAYGROUNDS CONCEPTUAL DESIGN
CITY OF SUMMIT, COUNTY OF UNION, STATE OF NEW JERSEY

TATLOCK PLAYGROUND CONCEPTUAL LAYOUT PLAN

PROJECT NUMBER: SCE-12675.021
SCALE: 1"=10'
SHEET 4 OF 7
REVISION: --



10 0 10 20 30 ft.

SCALE: 1"=10'

NOTICE

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NJ LICENSED LANDSCAPE ARCHITECT
LICENSE NO. 21AS00098600

DATE: 01/19/2023

SUBURBAN CONSULTING ENGINEERS, INC.

EVALUATION OF VARIOUS CITY PLAYGROUNDS CONCEPTUAL DESIGN
CITY OF SUMMIT, COUNTY OF UNION, STATE OF NEW JERSEY

SUMMIT AQUATIC CENTER CONCEPTUAL LAYOUT

PROJECT NUMBER: SCE-12073.021

SCALE: 1"=10'

SHEET 1 OF 2

REVISION

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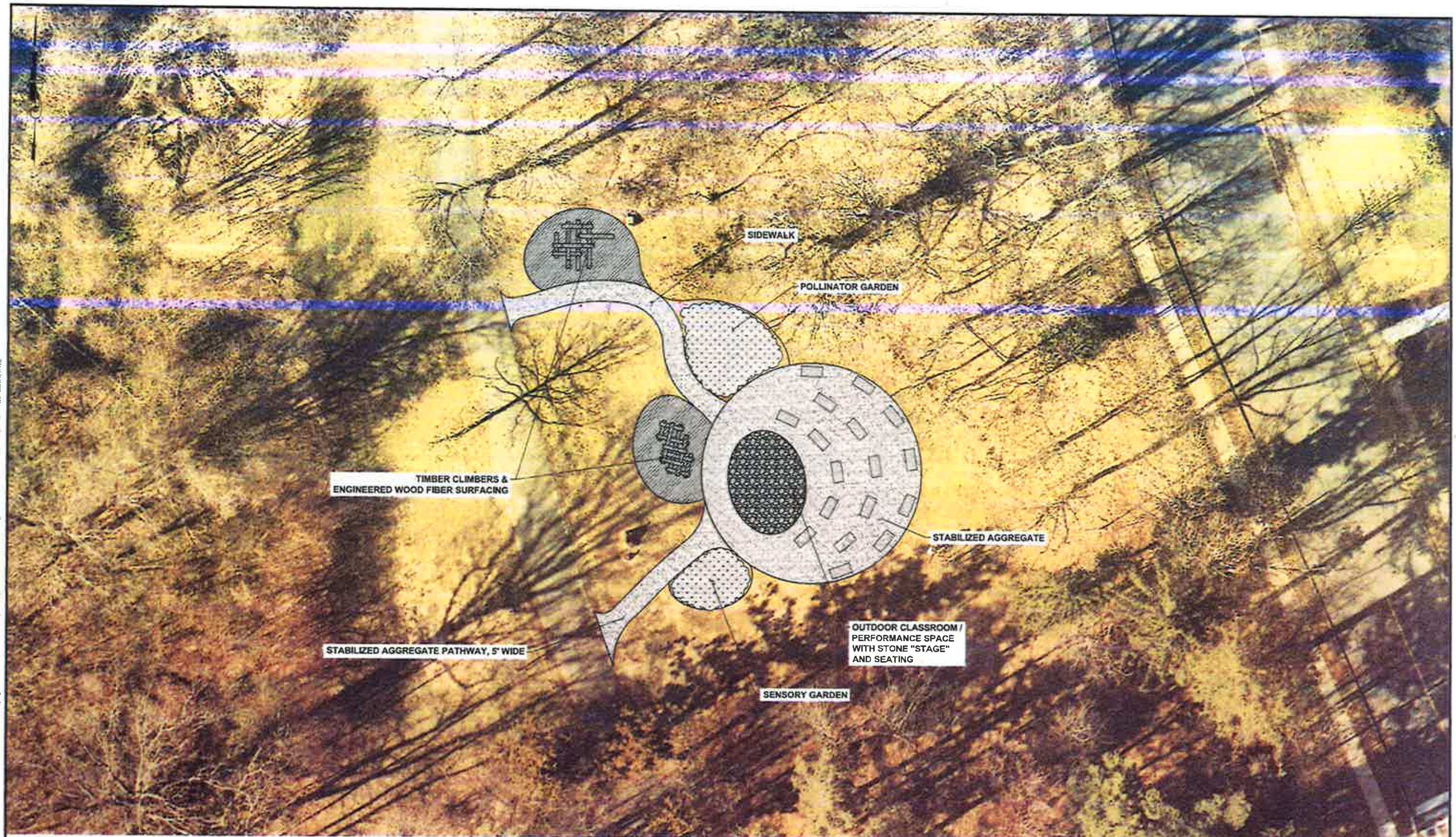

SCALE: 1"=10'

NO.	DATE:	BY:	CHK:	DESCRIPTION

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LICENSE NO: 21AS00056600

DATE: 01/19/2023

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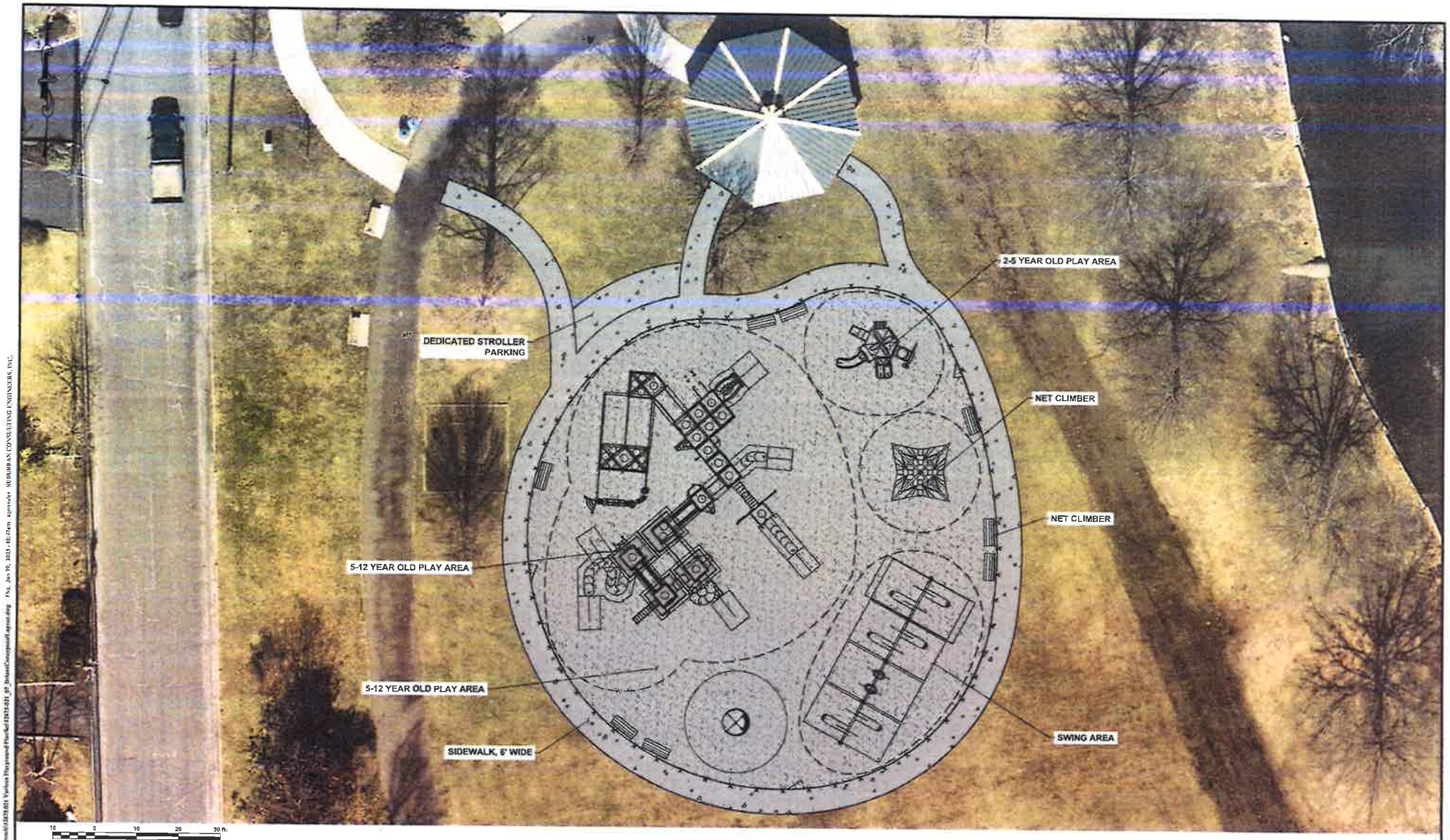
EVALUATION OF VARIOUS CITY PLAYGROUNDS
CONCEPTUAL DESIGN
CITY OF SUMMIT, COUNTY OF UNION, STATE OF NEW JERSEY

WILSON PARK CONCEPTUAL LAYOUT

PROJECT NUMBER: SCE-12675.021
SCALE: 1"=10'
SHEET 6 OF 7
REVISION -



10 0 10 20 30 ft.

SCALE: 1"=10'

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JOSEPH D. PERELLO, LLA
NJ LICENSED LANDSCAPE ARCHITECT
LICENSE NO. 21AS00006600

DATE: 01/19/2023

SUBURBAN CONSULTING ENGINEERS, INC.

EVALUATION OF VARIOUS CITY PLAYGROUNDS
CONCEPTUAL DESIGN
CITY OF SUMMIT, COUNTY OF UNION, STATE OF NEW JERSEY

BRIANT PARK CONCEPTUAL LAYOUT

PROJECT NUMBER: SCE-13213.021
SCALE: 1"=10'
SHEET 2 OF 2
REVISION: -

Appendix D

PLAYGROUND COST ESTIMATES

SCE-R12675.021

ENGINEER'S COST ESTIMATE

01/19/2023

CLIENT NAME: CITY OF SUMMIT

PROJECT NAME: VARIOUS PLAYGROUND IMPROVEMENTS

PROJECT LOCATION: CITY OF SUMMIT, COUNTY OF UNION, STATE OF NEW JERSEY

MABIE PLAYGROUND CONCEPT PLAN ESTIMATE

SECTION NO.	ITEM NO.	DESCRIPTION	BID QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
	1	SOIL EROSION AND SEDIMENT CONTROL	1	LS	$ 10,000.00	$ 10,000.00
	2	SITE CLEARING	1	LS	$ 55,000.00	$ 55,000.00
	3	GRADING AND EARTHWORK	1	LS	$ 75,000.00	$ 75,000.00
	4	DRAINAGE IMPROVEMENTS	1	LS	$ 75,000.00	$ 75,000.00
	5	CONCRETE SIDEWALK, 4" THICK	470	SY	$ 105.00	$ 49,350.00
	6	REINFORCED CONCRETE SIDEWALK, 6" THICK	840	SY	$ 115.00	$ 96,600.00
	7	6"X12" CONCRETE CURB	100	LF	$ 45.00	$ 4,500.00
	8	CONCRETE SEATWALL	1	LS	$ 26,000.00	$ 26,000.00
	9	PLAYGROUND SAFETY SURFACING	16,050	SF	$ 25.00	$ 401,250.00
	10	PLAYGROUND EQUIPMENT	1	LS	$ 1,200,000.00	$ 1,200,000.00
	11	BASKETBALL COURTS - INCLUDING EQUIPMENT AND COLOR COATING	1	LS	$ 200,000.00	$ 200,000.00
	12	CHAIN-LINK FENCE	625	LF	$ 95.00	$ 59,375.00
	13	SITE FURNISHINGS	1	LS	$ 75,000.00	$ 75,000.00
	14	SHADE STRUCTURES	1	LS	$ 175,000.00	$ 175,000.00
	15	SIGNAGE	1	LS	$ 18,000.00	$ 18,000.00
	16	SITE LIGHTING AND ELECTRIC SERVICE	1	LS	$ 65,000.00	$ 65,000.00
	17	LANDSCAPING	1	LS	$ 75,000.00	$ 75,000.00

CONSTRUCTION SUBTOTAL:	$ 2,660,075.00
15% CONTINGENCY:	$ 399,011.25
CONSTRUCTION TOTAL:	**$ 3,059,086.25**

SCE-R12675.021

ENGINEER'S COST ESTIMATE

01/19/2023

CLIENT NAME: CITY OF SUMMIT

PROJECT NAME: VARIOUS PLAYGROUND IMPROVEMENTS

PROJECT LOCATION: CITY OF SUMMIT, COUNTY OF UNION, STATE OF NEW JERSEY

MEMORIAL PLAYGROUND CONCEPT PLAN ESTIMATE

SECTION NO.	ITEM NO.	DESCRIPTION	BID QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
	1	SOIL EROSION AND SEDIMENT CONTROL	1	LS	$ 7,500.00	$ 7,500.00
	2	SITE CLEARING	1	LS	$ 45,000.00	$ 45,000.00
	3	GRADING AND EARTHWORK	1	LS	$ 55,000.00	$ 55,000.00
	4	CONCRETE SIDEWALK, 4" THICK	250	SY	$ 105.00	$ 26,250.00
	5	6"X12" CONCRETE CURB	325	LF	$ 45.00	$ 14,625.00
	6	CONCRETE SEAT WALL	1	LS	$ 20,000.00	$ 20,000.00
	7	PLAYGROUND SAFETY SURFACING	7,600	SF	$ 25.00	$ 190,000.00
	8	PLAYGROUND EQUIPMENT	1	LS	$ 600,000.00	$ 600,000.00
	9	EXERCISE EQUIPMENT	1	LS	$ 65,000.00	$ 65,000.00
	10	GAGA BALL PIT	1	LS	$ 13,000.00	$ 13,000.00
	11	SITE FURNISHINGS	1	LS	$ 25,000.00	$ 25,000.00
	12	LANDSCAPING/LAWN RESTORATION	1	LS	$ 12,000.00	$ 12,000.00

CONSTRUCTION SUBTOTAL:	$ 1,073,375.00
15% CONTINGENCY:	$ 161,006.25
CONSTRUCTION TOTAL:	**$ 1,234,381.25**

SCE-R12675.021

ENGINEER'S COST ESTIMATE

01/19/2023

CLIENT NAME: CITY OF SUMMIT

PROJECT NAME: VARIOUS PLAYGROUND IMPROVEMENTS

PROJECT LOCATION: CITY OF SUMMIT, COUNTY OF UNION, STATE OF NEW JERSEY

TATLOCK PARK PLAYGROUND CONCEPT PLAN ESTIMATE

SECTION NO.	ITEM NO.	DESCRIPTION	BID QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
	1	SOIL EROSION AND SEDIMENT CONTROL	1	LS	$ 7,500.00	$ 7,500.00
	2	SITE CLEARING	1	LS	$ 60,000.00	$ 60,000.00
	3	GRADING AND EARTHWORK	1	LS	$ 55,000.00	$ 55,000.00
	4	CONCRETE SIDEWALK, 4" THICK	75	SY	$ 105.00	$ 7,875.00
	5	6"X12" CONCRETE CURB	600	LF	$ 45.00	$ 27,000.00
	6	CONCRETE SEATWALL	1	LS	$ 26,000.00	$ 26,000.00
	7	PAVERS	1,260	SF	$ 18.00	$ 22,680.00
	8	ENGINEERED WOOD FIBER SAFETY SURFACING	17,760	SF	$ 9.00	$ 159,840.00
	9	PLAYGROUND EQUIPMENT	1	LS	$ 675,000.00	$ 675,000.00
	10	SITE FURNISHINGS	1	LS	$ 48,000.00	$ 48,000.00
	11	OUTDOOR CLASSROOM AREA	1	LS	$ 20,000.00	$ 20,000.00
	12	PLAYGROUND ENTRANCE PORTAL/SIGN	1	LS	$ 20,000.00	$ 20,000.00
	13	LANDSCAPING/LAWN RESTORATION	1	LS	$ 15,000.00	$ 15,000.00

CONSTRUCTION SUBTOTAL:	$	1,143,895.00
15% CONTINGENCY:	$	171,584.25
CONSTRUCTION TOTAL:	$	**1,315,479.25**

SCE-R12675.021

ENGINEER'S COST ESTIMATE

01/19/2023

CLIENT NAME: CITY OF SUMMIT

PROJECT NAME: VARIOUS PLAYGROUND IMPROVEMENTS

PROJECT LOCATION: CITY OF SUMMIT, COUNTY OF UNION, STATE OF NEW JERSEY

SUMMIT AQUATIC CENTER PLAYGROUND RECOMMENDATION:

SECTION NO.	ITEM NO.	DESCRIPTION	BID QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
	1	SITE CLEARING	1	LS	$ 5,000.00	$ 5,000.00
	2	ADDITIONAL PLASTIC CURBING	75	LF	$ 15.00	$ 1,125.00
	3	ADDITIONAL ENGINEERED WOOD FIBER SAFETY SURFACING	560	SF	$ 9.00	$ 5,040.00
	4	PLAYGROUND EQUIPMENT (SWING)	1	UNIT	$ 16,000.00	$ 16,000.00
	5	SHADE SAILS	1	LS	$ 30,000.00	$ 30,000.00
	6	BENCHES	2	UNIT	$ 3,500.00	$ 7,000.00
	7	LAWN RESTORATION	1	LS	$ 2,500.00	$ 2,500.00

CONSTRUCTION SUBTOTAL:	$ 66,665.00
15% CONTINGENCY:	$ 9,999.75
CONSTRUCTION TOTAL:	$ 76,664.75

SCE-R12675.021

ENGINEER'S COST ESTIMATE

01/19/2023

CLIENT NAME: CITY OF SUMMIT

PROJECT NAME: VARIOUS PLAYGROUND IMPROVEMENTS

PROJECT LOCATION: CITY OF SUMMIT, COUNTY OF UNION, STATE OF NEW JERSEY

POTENTIAL WILSON PARK PLAYGROUND ESTIMATE

SECTION NO.	ITEM NO.	DESCRIPTION	BID QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
	1	SOIL EROSION AND SEDIMENT CONTROL	1	LS	$ 2,500.00	$ 2,500.00
	2	GRADING AND EARTHWORK	1	LS	$ 25,000.00	$ 25,000.00
	3	STONE PAVERS	200	SF	$ 30.00	$ 6,000.00
	4	ENGINEERED WOOD FIBER SAFETY SURFACING	780	SF	$ 9.00	$ 7,020.00
	5	STABILIZED AGGREGATE	325	SY	$ 36.00	$ 11,700.00
	6	TIMBER CLIMBERS	1	LS	$ 40,000.00	$ 40,000.00
	7	TIMBER BENCHES	19	UNIT	$ 4,000.00	$ 76,000.00
	9	SENSORY GARDEN	1		$ 15,000.00	$ 20,000.00
	10	POLLINATOR GARDEN	1	LS	$ 15,000.00	$ 15,000.00
	11	LAWN RESTORATION	1	LS	$ 4,000.00	$ 4,000.00

CONSTRUCTION SUBTOTAL:	$	207,220.00
15% CONTINGENCY:	$	31,083.00
CONSTRUCTION TOTAL:	**$**	**238,303.00**

SCE-R12675.021

ENGINEER'S COST ESTIMATE

01/19/2023

CLIENT NAME: CITY OF SUMMIT

PROJECT NAME: VARIOUS PLAYGROUND IMPROVEMENTS

PROJECT LOCATION: CITY OF SUMMIT, COUNTY OF UNION, STATE OF NEW JERSEY

POTENTIAL BRIANT PARK PLAYGROUND ESTIMATE

SECTION NO.	ITEM NO.	DESCRIPTION	BID QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
	1	SOIL EROSION AND SEDIMENT CONTROL	1	LS	$ 10,000.00	$ 10,000.00
	2	GRADING AND EARTHWORK	1	LS	$ 60,000.00	$ 60,000.00
	3	CONCRETE SIDEWALK, 4" THICK	375	SY	$ 105.00	$ 39,375.00
	4	PLAYGROUND SAFETY SURFACING	10,790	SF	$ 25.00	$ 269,750.00
	5	PLAYGROUND EQUIPMENT	1	LS	$ 760,000.00	$ 760,000.00
	6	CHAIN-LINK FENCE, 4' HIGH	380	LF	$ 95.00	$ 36,100.00
	7	CHAIN-LINK GATE, 4' HIGH	3	UNIT	$ 3,500.00	$ 10,500.00
	8	SITE FURNISHINGS	1	LS	$ 35,000.00	$ 35,000.00
	9	LANDSCAPING	1	LS	$ 25,000.00	$ 25,000.00

CONSTRUCTION SUBTOTAL:	$ 1,245,725.00
15% CONTINGENCY:	$ 186,858.75
CONSTRUCTION TOTAL:	**$ 1,432,583.75**

ENGINEER'S COST ESTIMATE

SUBURBAN CONSULTING ENGINEERS, INC.

ESTIMATE OF PROBABLE COSTS
PROJECT NAME: SUMMIT COMMUNITY CENTER - OUTDOOR FAMILY RECREATION AREA
LOCATION: CITY OF SUMMIT, COUNTY OF UNION, STATE OF NEW JERSEY

BASE BID ITEMS - PHASE 1

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	SOIL EROSION & SEDIMENT CONTROL	1	LS	$5,000.00	$7,000.00
2	CLEARING SITE	1	LS	$10,000.00	$10,000.00
3	GRADING & EARTHWORK	1	LS	$15,000.00	$15,000.00
4	CONCRETE SIDEWALK, 4" THICK, COLOR CONDITIONED	640	SY	$90.00	$57,600.00
5	GUARD RAIL	120	LF	$90.00	$10,800.00
6	6' BENCH	10	UNIT	$1,800.00	$18,000.00
7	BOCCE COURT	1	LS	$29,000.00	$29,000.00
8	SHUFFLEBOARD COURT	1	LS	$11,000.00	$11,000.00
9	CORNHOLE EQUIPMENT	1	LS	$1,500.00	$1,500.00
10	GAME TABLES	4	UNIT	$3,000.00	$12,000.00
11	PICNIC TABLES	2	UNIT	$2,500.00	$5,000.00
12	PING-PONG TABLE	1	UNIT	$3,500.00	$3,500.00
13	DIGITAL MESSAGE BOARD	1	LS	$15,000.00	$15,000.00
14	OPTIONAL HALF CIRCLE SHADE STRUCTURE	2	UNIT	$11,000.00	$22,000.00
15	OPTIONAL HALF CIRCLE SHADE STRUCTURE W/ SWINGING BENCH	1	UNIT	$14,000.00	$14,000.00
16	OPTIONAL RECTANGULAR SHADE STRUCTURE @ BOCCE COURT	1	UNIT	$40,000.00	$40,000.00
17	SHED WITH ACCESS SERVICE WINDOW	1	UNIT	$6,000.00	$6,000.00
18	LANDSCAPE IMPROVEMENTS	1	LS	$5,000.00	$5,000.00
19	TOPSOIL, FERTILIZER, SEED AND MULCH (TYP.)	500	SY	$7.00	$3,500.00
				BASE BID ITEM TOTAL	$282,400.00
				5% CONTINGENCY	$14,120.00
				CONSTRUCTION TOTAL	$296,520.00

BASE BID ITEMS - PHASE 2

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	CLEARING SITE & SCD MEASURES	1	LS	$15,000.00	$15,000.00
2	GRADING & EARTHWORK	1	LS	$15,000.00	$15,000.00
3	CONCRETE SIDEWALK, 4" THICK, COLOR CONDITIONED	145	SY	$90.00	$13,050.00
4	COLOR CONDITIONED CONCRETE @ EXERCISE AREAS	2,145	SF	$14.00	$30,030.00
5	6' BENCH	6	UNIT	$1,800.00	$10,800.00
6	EXERCISE GROUP AREA QUOTE PLUS INSTALLATION	1	LS	$70,000.00	$70,000.00
7	GAME TABLES	6	UNIT	$3,000.00	$18,000.00
8	SHADE STRUCTURE W/ ELECTRIC AND SOUND	1	UNIT	$70,000.00	$70,000.00
9	RAIN GARDENS	1	LS	$18,000.00	$18,000.00
10	TOPSOIL, FERTILIZER, SEED AND MULCH (TYP.)	500	SY	$7.00	$3,500.00
				BASE BID ITEM TOTAL	$263,380.00
				10% CONTINGENCY	$26,338.00
				CONSTRUCTION TOTAL	$289,718.00

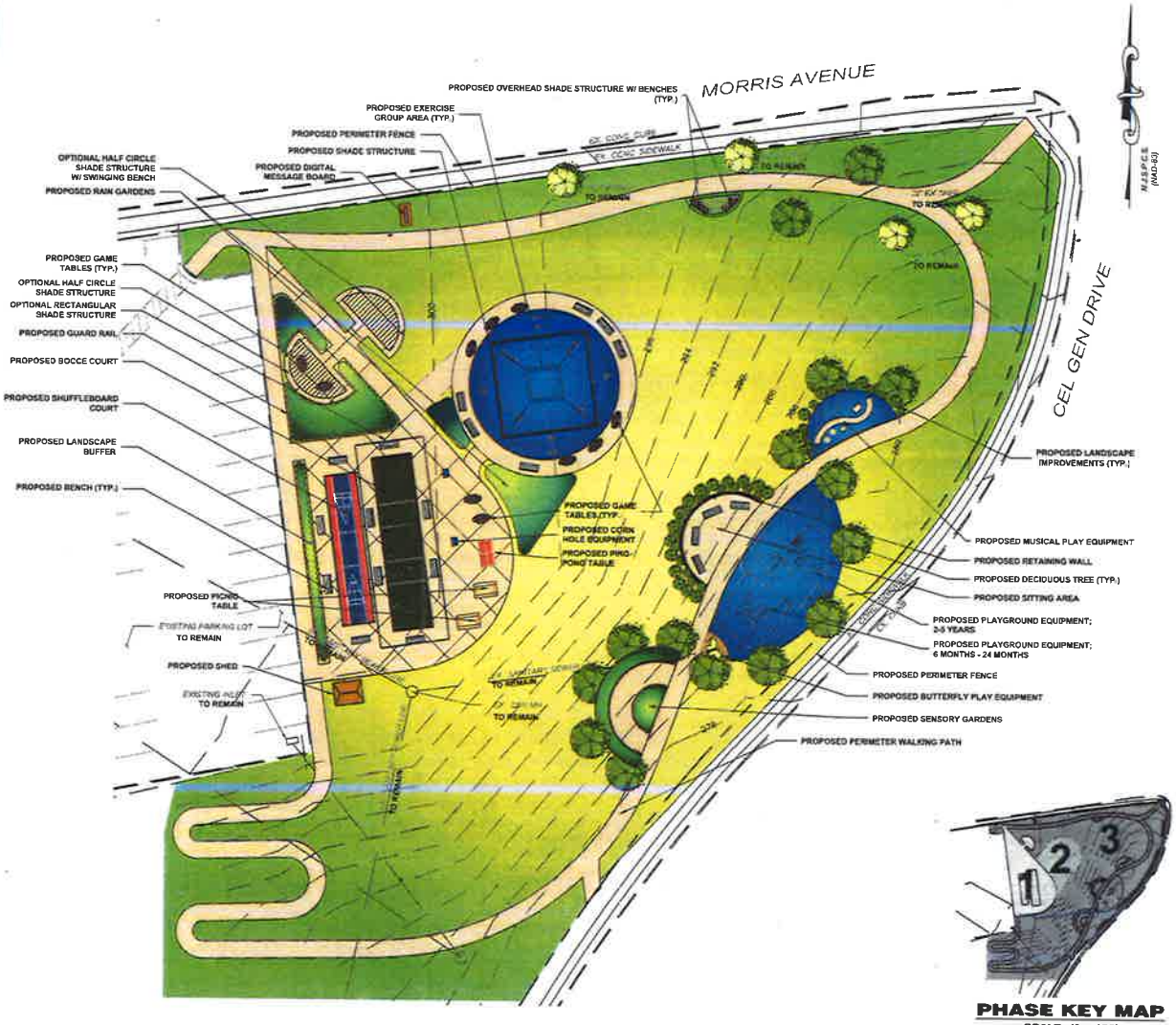
BASE BID ITEMS - PHASE 3

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	CLEARING SITE & SCD MEASURES	1	LS	$18,000.00	$18,000.00
2	GRADING & EARTHWORK	1	LS	$20,000.00	$20,000.00
3	CONCRETE SIDEWALK, 4" THICK	750	SY	$80.00	$60,000.00
4	RUBBERIZED SAFETY SURFACING	2,255	SF	$18.00	$40,590.00
5	CHAIN-LINK FENCE, 6' HIGH	620	LF	$55.00	$34,100.00
6	6' BENCH	6	UNIT	$1,800.00	$10,800.00
7	MUSICAL PLAY EQUIPMENT & MUSIC PLAZA	1	LS	$22,000.00	$22,000.00
8	PLAYGROUND EQUIPMENT - 6-24 MONTHS	1	LS	$42,000.00	$42,000.00
9	PLAYGROUND EQUIPMENT - 2-5 YEARS	1	LS	$43,500.00	$43,500.00
10	OVERHEAD SHADE STRUCTURE	1	UNIT	$11,000.00	$11,000.00
11	LANDSCAPE IMPROVEMENTS, SENSORY GARDEN & WALLS	1	LS	$50,000.00	$50,000.00
12	TOPSOIL, FERTILIZER, SEED AND MULCH (TYP.)	2,000	SY	$7.00	$14,000.00
				BASE BID ITEM TOTAL	$365,990.00
				10% CONTINGENCY	$36,599.00
				CONSTRUCTION TOTAL	$402,589.00

CONSTRUCTION TOTAL	$988,827.00

Joseph D. Perello, LLA, PP
Principal Landscape Architect
License No. 21AS00066600

Date



PHASE KEY MAP

SCALE: 1" = 100'

20 0 20 40 60

SCALE: 1" = 20'

NOTICE

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DESCRIPTION	NO.	DATE:	BY:	CHK:

REVISIONS

DRAWN BY:

CHECKED BY:

CHECKED BY:

JOSEPH D. PERELLO, L.L.A.
N.J. LICENSED LANDSCAPE ARCHITECT
LICENSE NO. AS00666

DATE:

SUBURBAN CONSULTING ENGINEERS, INC.
EXCELLENCE • ECONOMY • ENVIRONMENT

SUMMIT COMMUNITY CENTER IMPROVEMENTS
100 MORRIS AVENUE
BLOCK 4101 - LOT 27
CITY OF SUMMIT, UNION COUNTY, NEW JERSEY

CONCEPT PLAN 'A-2'

PROJECT NUMBER: SCE-8281.021

SCALE: 1"=20'

SHEET 1 OF 2

REVISION ___