



City of Cambridge

King Open & Cambridge Street Upper Complex & Community Complex

Cambridge, MA 02141

PROJECT: WILLOW STREET PLAYGROUND, KINDERGARTEN PLAYGROUND, FRISOLI/CSUS PLAYGROUND, UPPER COMPLEX, COMMUNITY COMPLEX, CAMBRIDGE STREET UPPER COMPLEX

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

LANDSCAPE GRADING LEGEND

XXX +	SPOT GRADE	(XXX)	EXISTING OR CIVIL SPOT GRADE TO BE MET
TW	TOP OF WALL	BW	BOTTOM OF WALL
TS	TOP OF SLAB	BS	BOTTOM OF SLAB
TC	TOP OF CURB	BC	BOTTOM OF CURB
TR	TOP OF RAMP	BR	BOTTOM OF RAMP
		-	SLOPE DIRECTION

LANDSCAPE GRADING NOTES

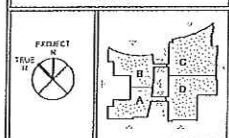
- EXISTING SITE LAYOUT BASE INFORMATION WAS BASED ON DEGRADES SUPPLIED BY THE OWNER. VERIFY VISIT PERSON CONSIDER IS NOT RESPONSIBLE FOR ACCURACY OR COMPLETENESS OF THIS INFORMATION.
- COORDINATE ALL DIMENSIONS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BETWEEN ALL TRADES BEFORE COMMENCING NEW CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY AND ALL CONFLICTS BETWEEN PROPOSED SITE WORK AND WORK OF ALL OTHER TRADES.
- CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK. ANY DISCREPANCIES TO THESE DIMENSIONS MADE IN THE FIELD SHALL BE PROMPTLY REPORTED BY THE CONTRACTOR TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL AND RECORDED IN RECORD DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE DONE AND OUTSIDE THE LIMIT OF WORK LINE DUE TO CONTRACT OPERATIONS.
- CONTRACTOR SHALL RESTORE DAMAGED AREAS BEYOND CONDUIT LIMITS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE INFORMATIONAL ONLY AND DO NOT REPRESENT ACCURATE LOCATIONS. THE CONTRACTOR SHALL CONDUCT CITY OF CAMBRIDGE AND DEWATS TO CONFIRM THE LOCATIONS OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO THE FAILURE OF THE CONTRACTOR TO CONFIRM UTILITIES SHALL BE BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY DAMAGE INCURRED TO EXISTING UTILITIES SCHEDULED TO REMAIN AT NO COST TO THE OWNER.
- FITCH EVERYWHERE BETWEEN SPOT GRADES. ALL FINISH AREAS MUST FIT TO GRASS AT A MINIMUM OF 1/4" PER FOOT UNLESS OTHERWISE NOTED. REPORT ANY DISCREPANCIES BETWEEN EXISTING AND PROPOSED SPOT GRADES THAT DO NOT FIT TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
- WHERE NEW FINISH MEETS EXISTING FINISH, MEET LINE AND GRADE OF EXISTING SMOOTHLY WITH NEW CONSTRUCTION.
- EXCAVATION ADJACENT TO EXISTING AND PROPOSED UTILITY LINES AND EXISTING TREES SHALL BE DONE BY HAND. CONTRACTOR SHALL PROTECT ALL EXPOSED UTILITIES.
- CONTRACTOR SHALL PROTECT EXISTING UTILITIES, EXISTING STRUCTURES, IMPROVEMENTS, APPURTEANCES AND VEGETATION TO REMAIN. CONTRACTOR SHALL REPAIR ANY DAMAGE INCURRED AT NO COST TO OWNER.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF PERMITS AND LICENSES ISSUED BY THE FEDERAL, STATE AND LOCAL AGENCIES (SEE SPEC).
- CONTRACTOR SHALL COORDINATE ALL SITE UTILITY IMPROVEMENTS WITH THE PROPER AUTHORITIES.
- MAINTAIN A MINIMUM OF 1.5% CROSS SLOPE ON ALL PAVED PATHWAYS, UNLESS OTHERWISE NOTED.
- ALL MANHOLES, DRAINAGE STRUCTURES, STUMP MONUMENTS, ELECTRIC MANHOLE FRAMES AND COVERS WITHIN THE PROJECT WORK AREA SHALL BE ADAPTED TO FINISH GRADES UNLESS OTHERWISE NOTED.
- SEE CIVIL DRAWINGS FOR RAIL ELEVATIONS (COORDINATE AND REPORT DISCREPANCIES BETWEEN LA DRAWINGS) AND GRADING OUTSIDE OF CONDUIT LIMITS, I.E. ROADWAYS AND PARKING LOT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL LINES, GRADES, AND OTHER SURVEY CONTROL TO COMPLETE THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF THE SURVEY CONTROL, REFERENCE POINTS AND LOCATION STAKES. THE CONTRACTOR SHALL EMPLOY A MASSACHUSETTS LICENSED REGISTERED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER, FAMILIAR WITH RAILROAD CONSTRUCTION, WHO SHALL ESTABLISH LINES AND LEVELS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT LOCATION OF THE PROPOSED SITE FEATURES.
- CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDINGS AT THE TOP AND BOTTOM OF SLOPES.
- ALL GRADING SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE LOCAL AND FEDERAL LAWS AND ORDINANCES FOR UNIVERSAL ACCESSIBILITY INCLUDING ADA. IN CASE OF CONFLICT BETWEEN REGULATIONS, THE CODELINE PROVIDING GREATER ACCESS SHALL APPLY.
- MAINTAIN THE INTEGRITY OF THE EXISTING DRAINAGE SYSTEM AT ALL TIMES.
- THE CONTRACTOR SHALL MAINTAIN OR ADJUST TO NEW FINISHED GRADES AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POLES, MANHOLES, DRAINAGE STRUCTURES, HAND HOLES, WATER AND GAS GATES, INVERTS, ETC., FROM MANHOLED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED ON THE UTILITY DRAWINGS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- RUN ELEVATIONS OF ALL DRAINAGE STRUCTURES AND OTHER UTILITY STRUCTURES SHALL BE SET FLUSH WITH FINAL SURROUNDING GRADES SO AS NOT TO CAUSE A TRIP EDGE.
- FINAL SWAPS OF ALL EARTHWORK SHALL BE DIRECTED AND APPROVED IN THE FIELD BY THE OWNER'S REPRESENTATIVE, INCLUDING THE SURVEYOR IN THE PLANT BILLS FROM TO PLACE ANY LOAD.
- SEE SPECIFICATIONS FOR SCHEDULING EXCAVATION AND FILLING PROCEDURES.

GENERAL NOTES:

ISSUANCES & REVISIONS

NO.	DATE	DESCRIPTION
1	01/20/17	ISSUED

BID SET



GRADING PLAN

DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

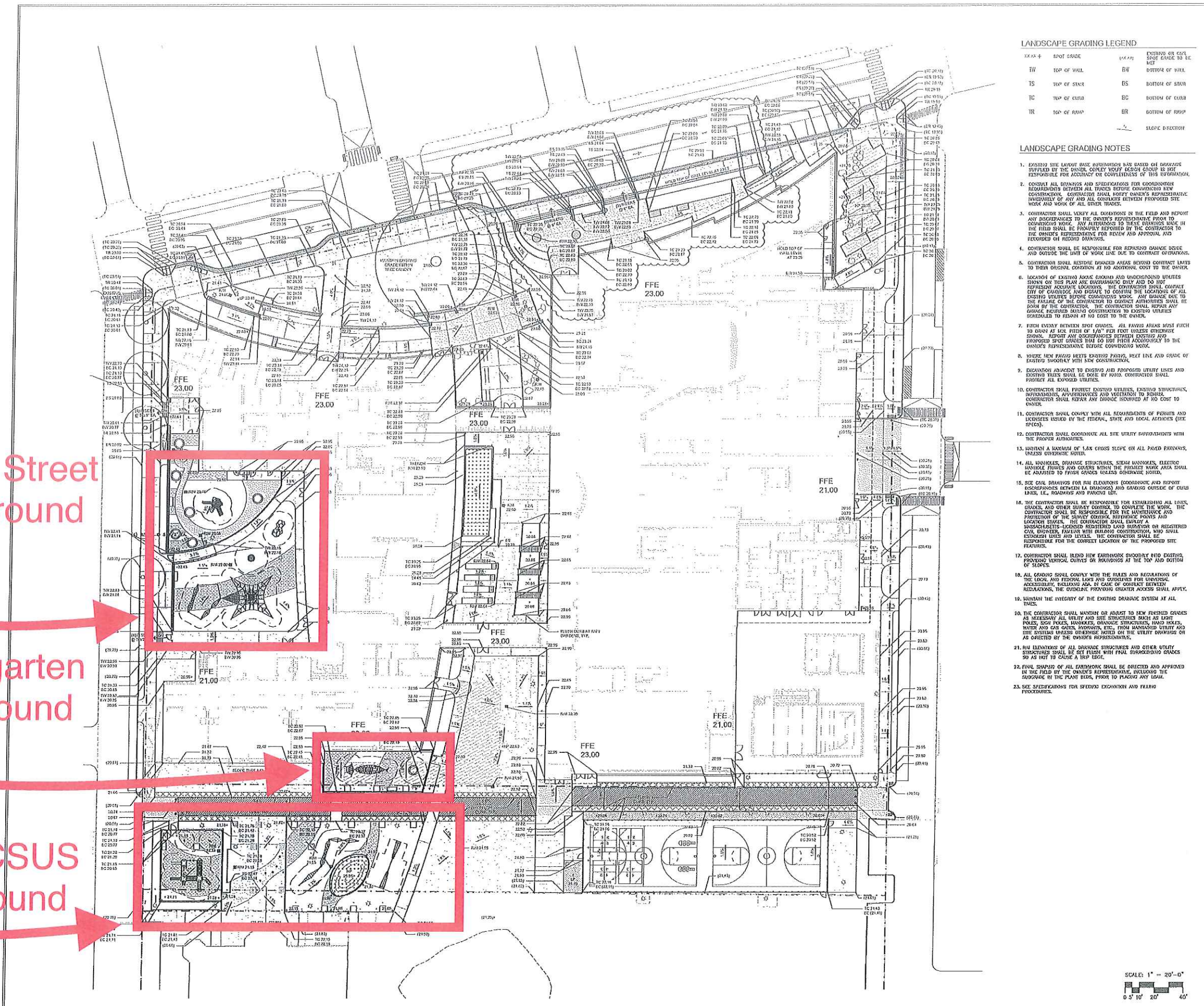
DATE: 01/20/17

SCALE: 1" = 20'-0"

DATE: 01/20/17

SCALE: 1" = 20'-0"

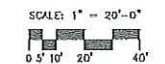
DATE: 01/20/17



Willow Street Playground

Kindergarten Playground

Frisoli/CSUS Playground

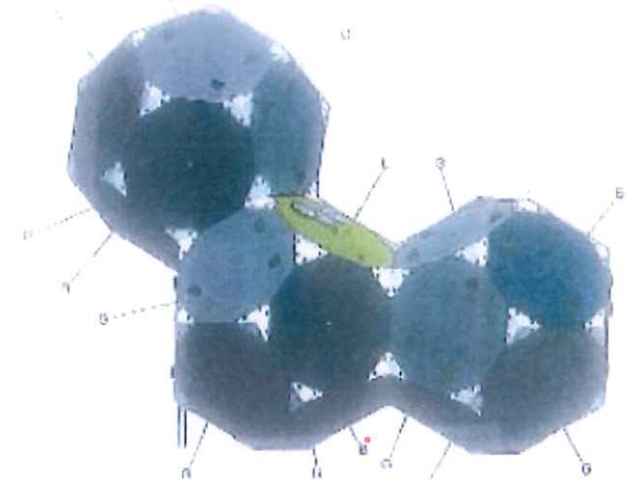
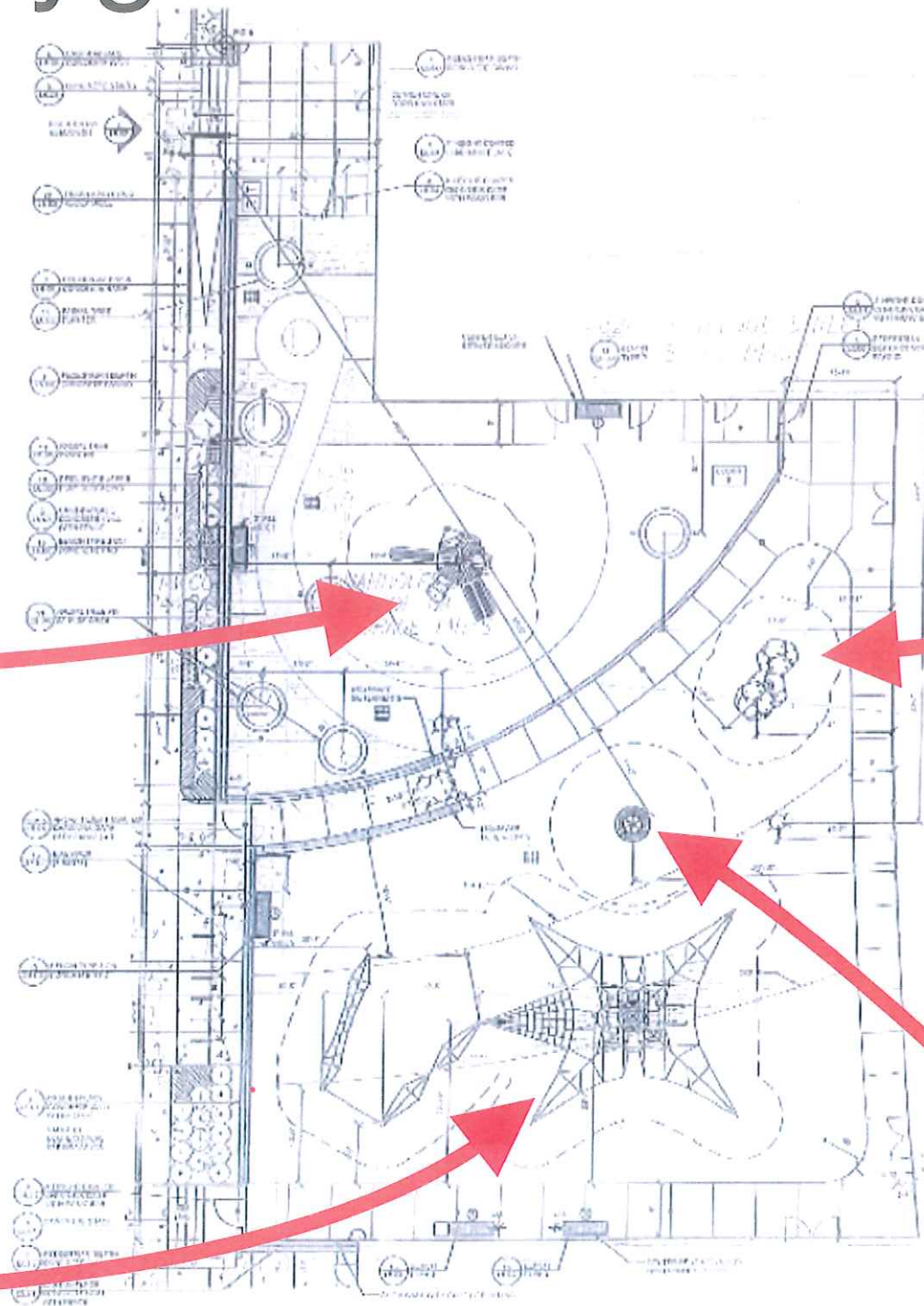


L3.00

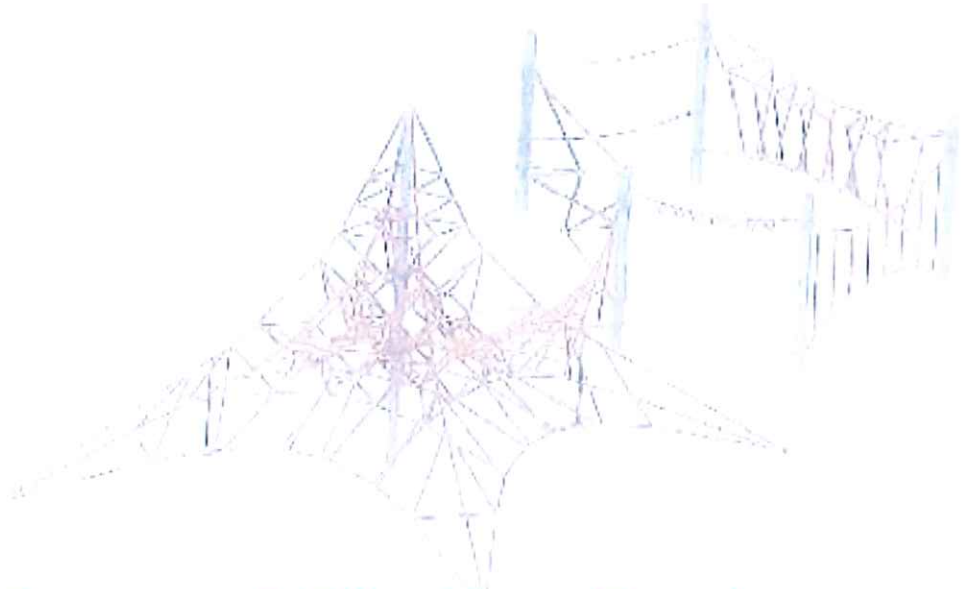
Willow Street Playground



Mega Tower



BLOQX 3 90cm

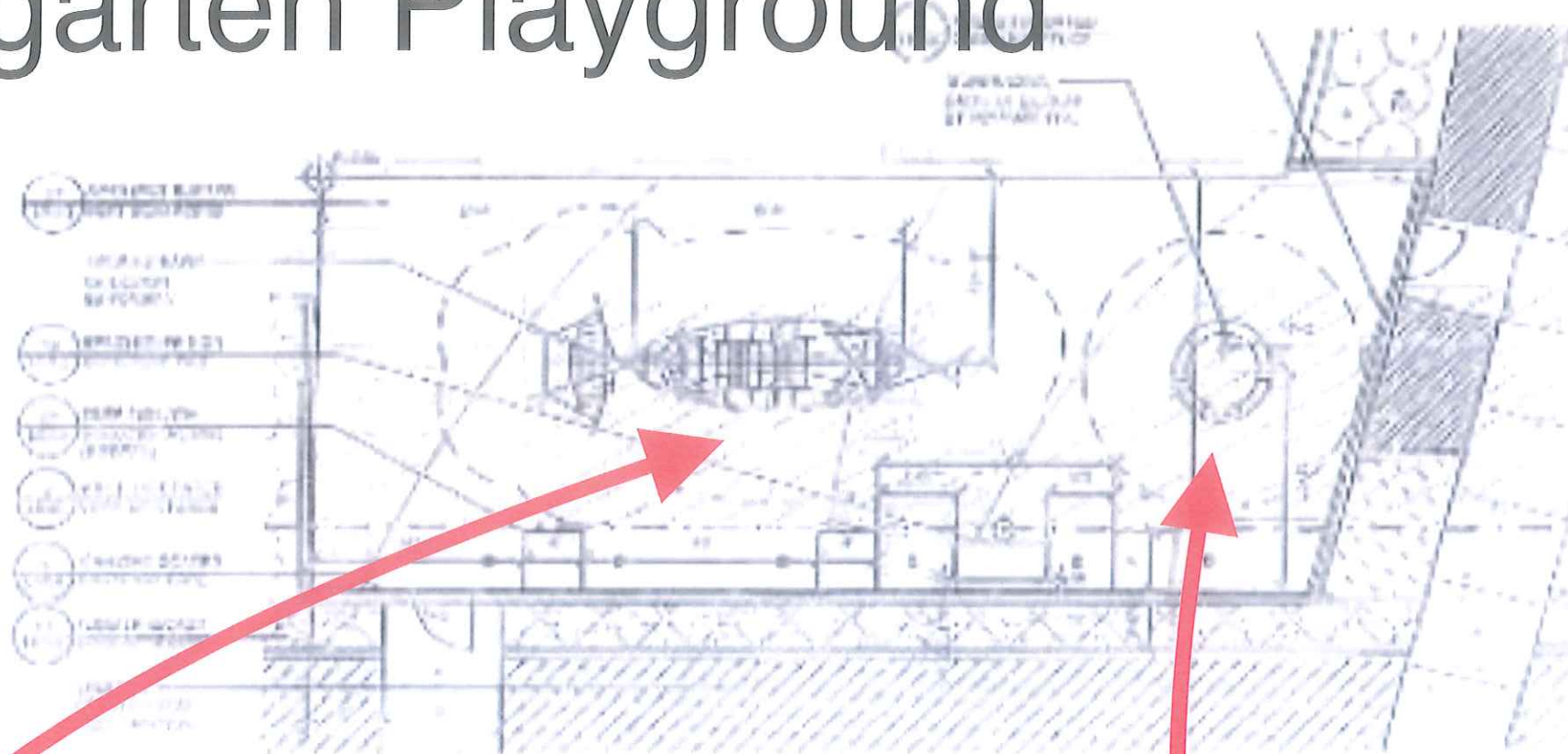


Corocord Climbing Combo



Tipi Carousel

Kindergarten Playground



Adara II



Supernova

Frisoli/CSUS Playgrounds



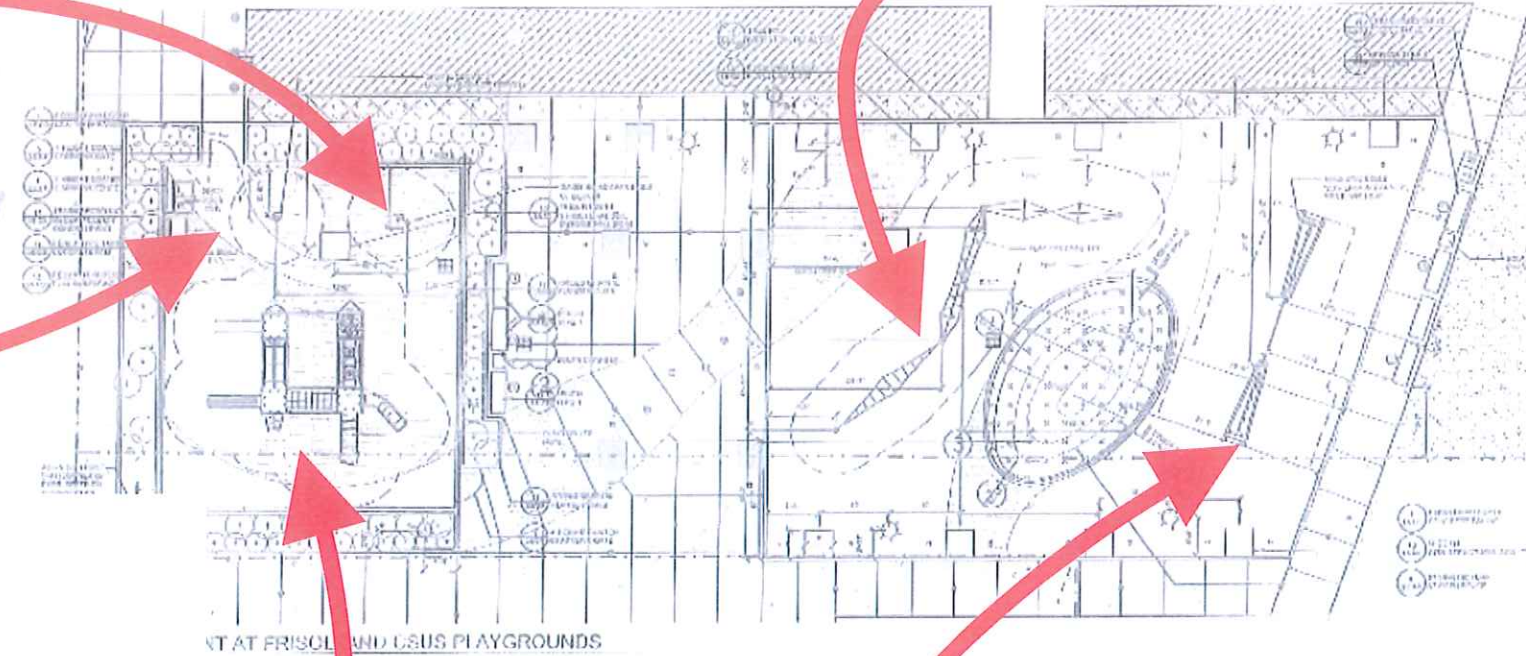
Daisy



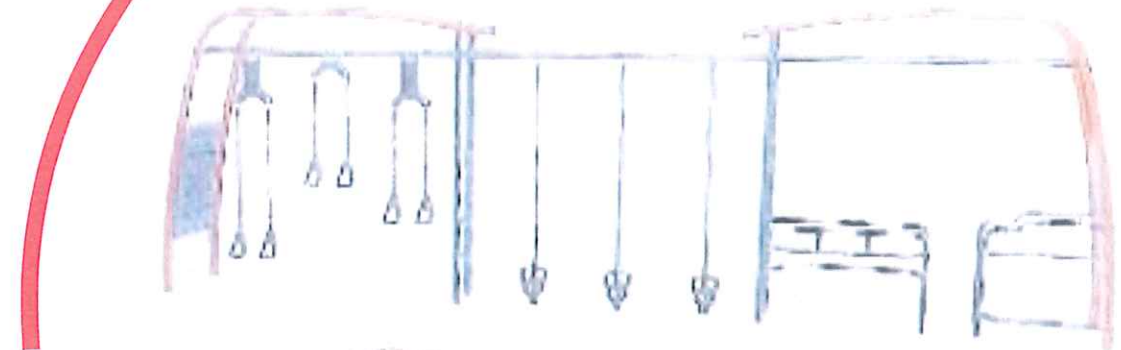
Rope Climbing Parkour



Spinner Bowl



Quad Tower



Suspension Trainer, Parallel Bars
& Magnetic Bells