

CITY OF NORTHFIELD

CONSTRUCTION PLANS FOR

CENTRAL PARK SITE IMPROVEMENTS (421 4TH ST. EAST)

REMOVALS, SITE GRADING, CONCRETE SIDEWALKS, PLAYGROUND CONSTRUCTION, SITE AMENITIES, AND SITE RESTORATION

RESOURCE LIST

CITY OF NORTHFIELD

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Ben Martig

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Utility Superintendent:
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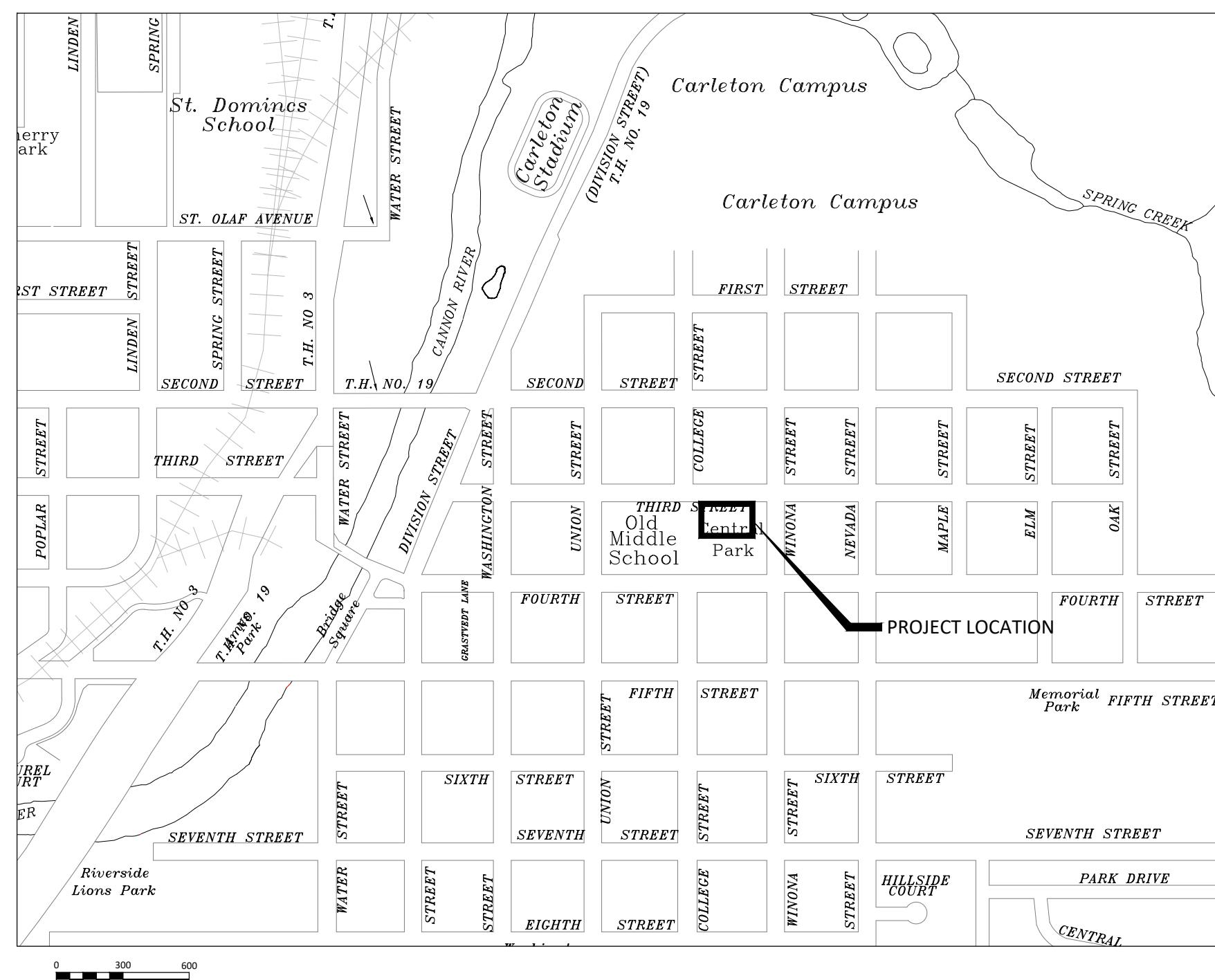
NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL, 1-800-252-1166 OR 651-454-0002.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."



MAP LEGEND

■ PROJECT LIMITS



SHEET NUMBER	SHEET TITLE
G0.01 - G0.02	TITLE SHEET, LEGEND
C0.01	EXISTING CONDITIONS & REMOVALS PLAN
C1.01	SITE PLAN
C2.01	GRADING PLAN
C2.02	EROSION CONTROL & TURF ESTABLISHMENT PLAN
C3.01	DETAILS

THIS PLAN SET CONTAINS 7 SHEETS.

EXISTING TOPOGRAPHIC SYMBOLS

	ACCESS GRATE		REGULATION STATION GAS
	AIR CONDITION UNIT		SATELLITE DISH
	ANTENNA		SIGN NON TRAFFIC
	AUTO SPRINKLER CONNECTION		SIGN TRAFFIC
	BARRICADE PERMANENT		SIGNAL CONTROL CABINET
	BASKETBALL POST		SOIL BORING
	BENCH		SIREN
	BIRD FEEDER		TELEPHONE BOOTH
	BOLLARD		TILE INLET
	BUSH		TILE OUTLET
	CATCH BASIN RECTANGULAR CASTING		TILE RISER
	CATCH BASIN CIRCULAR CASTING		TRANSFORMER-ELECTRIC
	CURB STOP		TREE-CONIFEROUS
	CLEAN OUT		TREE-DEAD
	CULVERT END		TREE-DECIDUOUS
	DRINKING FOUNTAIN		TREE STUMP
	DOWN SPOUT		TRAFFIC ARM BARRIER
	FILL PIPE		TRAFFIC SIGNAL
	FIRE HYDRANT		TRASH CAN
	FLAG POLE		UTILITY MARKER
	FLARED END / APRON		VALVE
	FUEL PUMP		VALVE POST INDICATOR
	GRILL		VALVE VAULT
	GUY WIRE ANCHOR		VAULT
	HANDHOLE		VENT PIPE
	HANDICAP SPACE		WATER SPIGOT
	IRRIGATION SPRINKLER HEAD		WELL
	IRRIGATION VALVE BOX		WETLAND DELINEATED MARKER
	LIFT STATION CONTROL PANEL		WETLAND
	LIFT STATION		WET WELL
	LIGHT ON POLE		YARD HYDRANT
	LIGHT-GROUND		
	MAILBOX		
	MANHOLE-COMMUNICATION		CLEANOUT
	MANHOLE-ELECTRIC		MANHOLE
	MANHOLE-GAS		LIFT STATION
	MANHOLE-HEAT		STORM SEWER CIRCULAR CAST
	MANHOLE-SANITARY SEWER		STORM SEWER RECTANGULAR CAST
	MANHOLE-STORM SEWER		STORM SEWER FLARED END / APRON
	MANHOLE-UTILITY		STORM SEWER OUTLET STRUCTURE
	MANHOLE-WATER		STORM SEWER OVERFLOW STRUCTURE
	METER		CURB BOX
	ORDER MICROPHONE		FIRE HYDRANT
	PARKING METER		WATER VALVE
	PAVEMENT MARKING		WATER REDUCER
	PEDESTAL-COMMUNICATION		WATER BEND
	PEDESTAL-ELECTRIC		WATER TEE
	PEDESTRIAN PUSH BUTTON		WATER CROSS
	PICNIC TABLE		WATER SLEEVE
	POLE-UTILITY		WATER CAP / PLUG
	POLE-BRACE		RIP RAP
	POST		DRAINAGE FLOW
	RAILROAD SIGNAL POLE		TRAFFIC SIGNS

SURVEY SYMBOLS

	BENCHMARK LOCATION		CAST IRON MONUMENT
	CONTROL POINT		STONE MONUMENT
	MONUMENT FOUND		
EXISTING TOPOGRAPHIC LINES			
	X		RETAINING WALL
			FENCE
			FENCE-DECORATIVE
			GUARD RAIL
			TREE LINE
			BUSH LINE
SURVEY LINES			
	0		CONTROLLED ACCESS
	-		BOUNDARY
			CENTERLINE
			EXISTING EASEMENT
			PROPOSED EASEMENT
			EXISTING LOT LINE
			PROPOSED LOT LINE
			EXISTING RIGHT-OF-W
			PROPOSED RIGHT-OF-W
			SETBACK LINE
			SECTION LINE
			QUARTER LINE
			SIXTEENTH LINE
			TEMPORARY EASEMENT
EXISTING UTILITY LINES			
			FORCEMAIN
	>		SANITARY SEWER
	>		SANITARY SERVICE
	>>		STORM SEWER
	>>		STORM SEWER DRAIN
			WATERMAIN
			WATER SERVICE
PROPOSED UTILITY LINES			
			FORCEMAIN
	>		SANITARY SEWER
	>		SANITARY SERVICE
	>>		STORM SEWER
	>>		STORM SEWER DRAIN
			WATERMAIN
			WATER SERVICE
			PIPE CASING
			TRENCHLESS PIPE (PLA
			TRENCHLESS PIPE (PRO
GRADING INFORMATION			
	952		EXISTING CONTOUR MINOR
	950		EXISTING CONTOUR MAJOR
	952		PROPOSED CONTOUR MINOR
	950		PROPOSED CONTOUR MAJOR
	953.53		PROPOSED GRADING LIMITS / SLOPE LIMIT
	980.87		PROJECT LIMITS
	STA:5+67.19		PROPOSED SPOT ELEVATION
	1:4		RISE:RUN (SLOPE)
HATCH PATTERNS			
	BITUMINOUS		GRAVEL
	CONCRETE		

EXISTING PRIVATE UTILITY LINES

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— F — F — F — F —	UNDERGROUND FIBER OPTIC
— E — E — E — E —	UNDERGROUND ELECTRIC
— G — G — G — G —	UNDERGROUND GAS
— C — C — C — C —	UNDERGROUND COMMUNICATION
— OE — OE — OE — OE —	OVERHEAD ELECTRIC
— OC — OC — OC — OC —	OVERHEAD COMMUNICATION
— OU — OU — OU — OU —	OVERHEAD UTILITY

UTILITIES IDENTIFIED WITH A QUALITY LEVEL

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL
EXAMPLE: G-R G-A UNDERGROUND GAS, QUALITY LEVEL A
UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-22.

UTILITY QUALITY LEVELS:

QUALITY LEVEL D: PROVIDES THE MOST BASIC LEVEL OF INFORMATION. IT INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS. RECORDS MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICES MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASES, CONSTRUCTION PLANS, ETC.

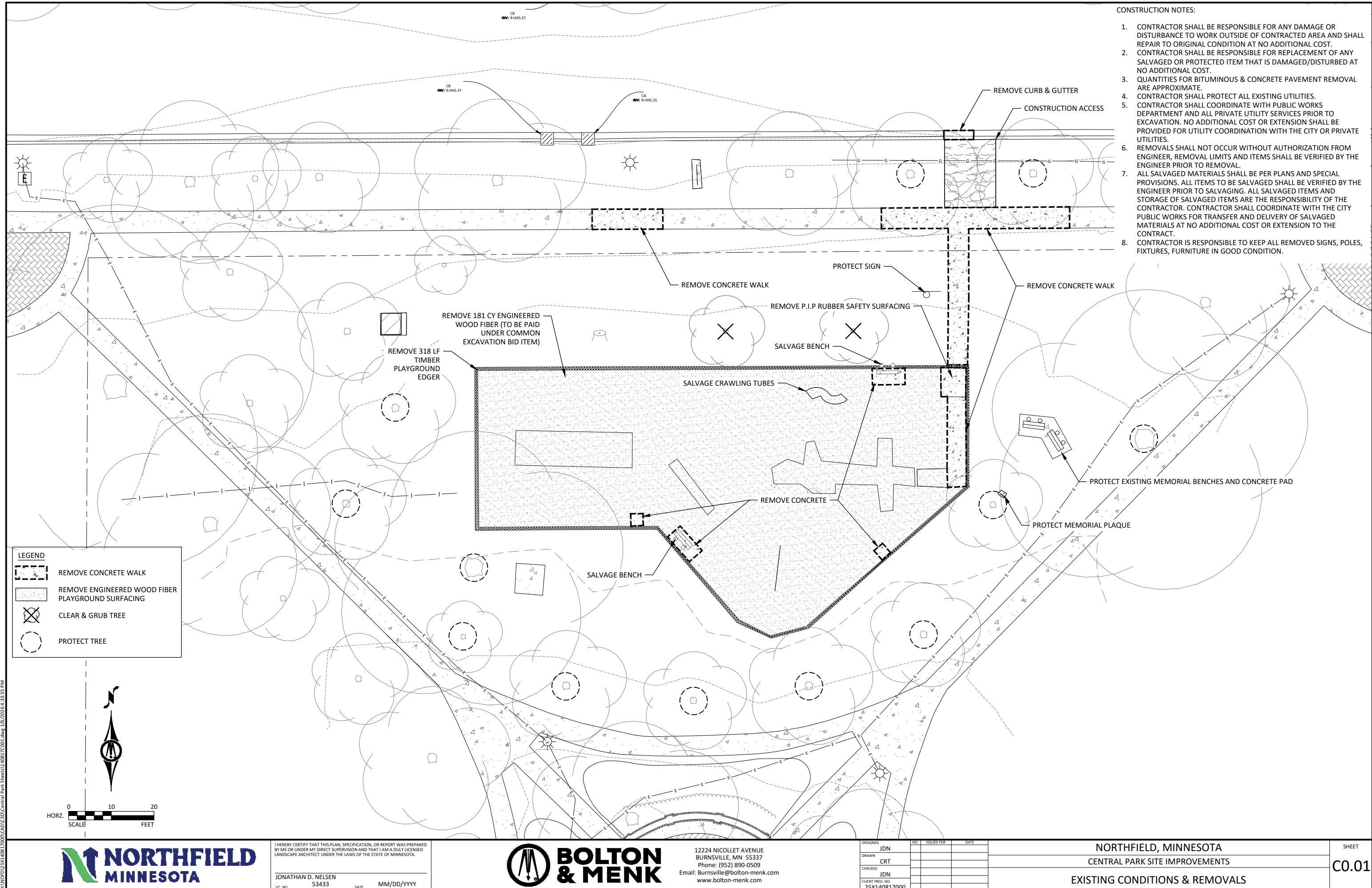
QUALITY LEVEL C: INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. INCLUDES QUALITY LEVEL D ACTIVITIES.

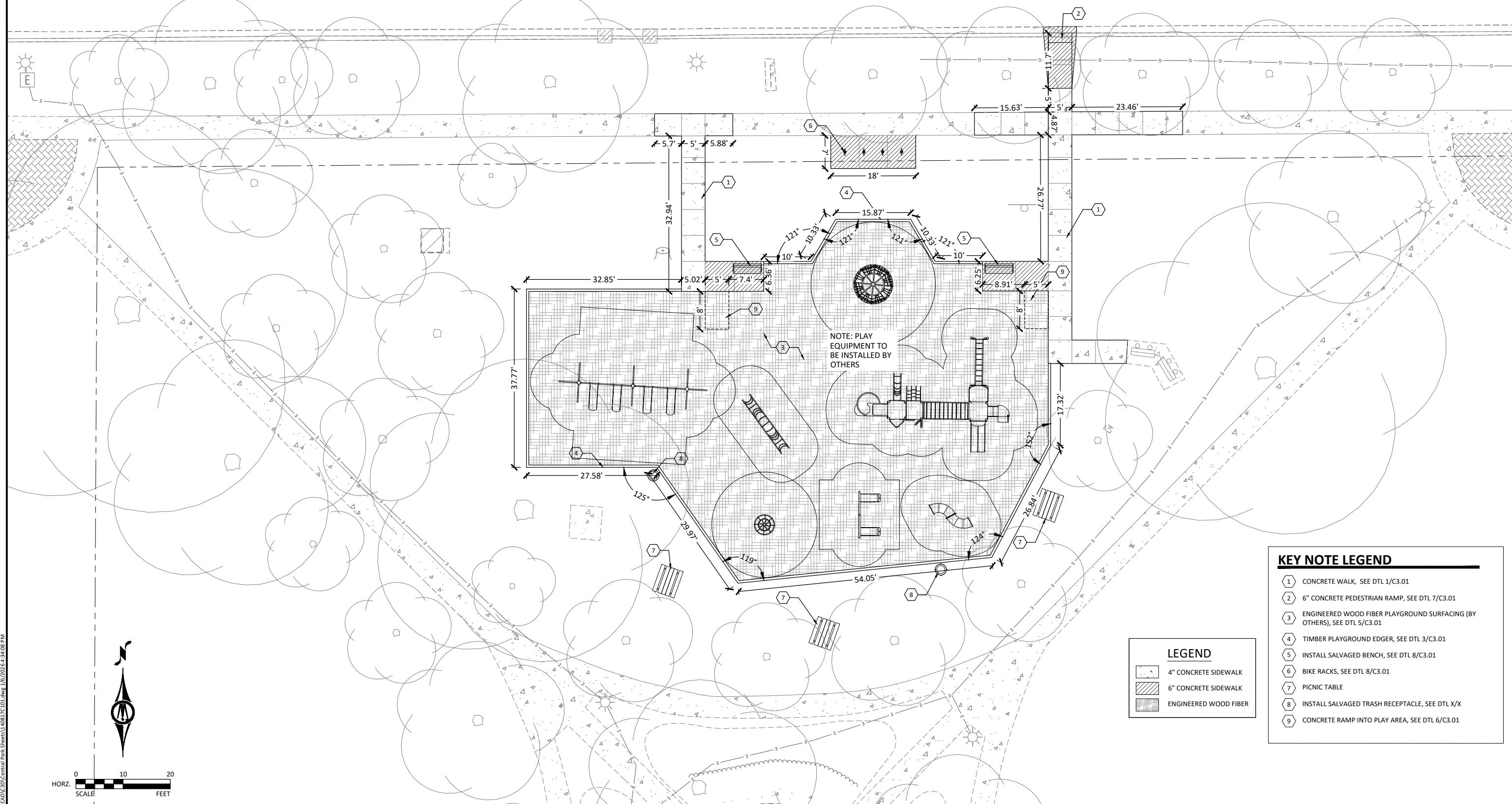
QUALITY LEVEL B: INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND COLLECTING THE INFORMATION THROUGH A SURVEY METHOD. INCLUDES QUALITY LEVEL C AND D TASKS.

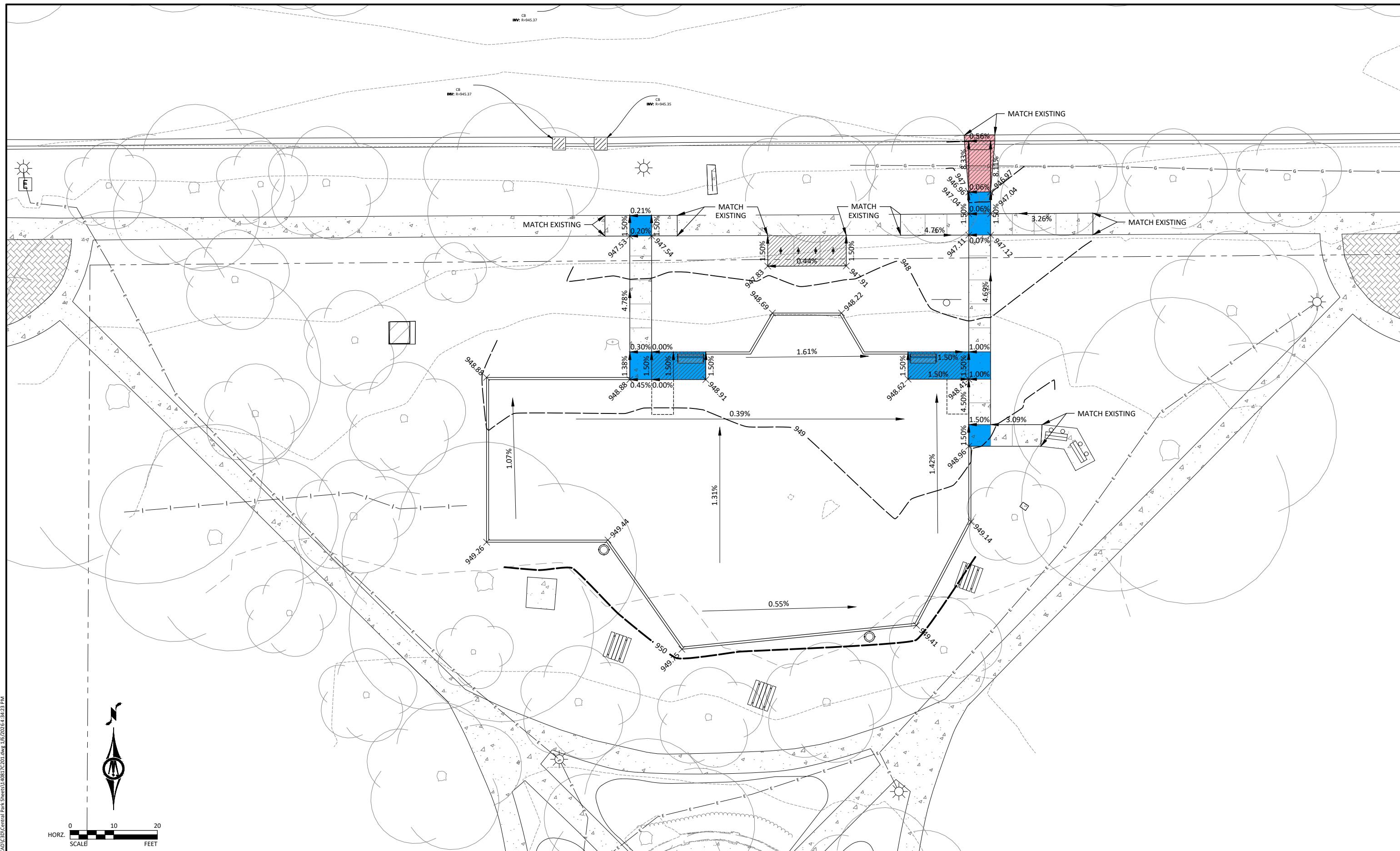
QUALITY LEVEL A: PROVIDES THE HIGHEST LEVEL OF ACCURACY. IT INVOLVES LOCATING OR POTHOLING UTILITIES AS WELL AS ACTIVITIES IN QUALITY LEVELS B, C, AND D. THE LOCATED FACILITY INFORMATION IS SURVEYED AND MAPPED AND THE DATA PROVIDES PRECISE PLAN AND PROFILE INFORMATION.

ABBREVIATIONS

A	ALGEBRAIC DIFFERENCE	GRAV	GRAVEL	RSC	RIGID STEEL CONDUIT
ADJ	ADJUST	GU	GUTTER	RT	RIGHT
ALT	ALTERNATE	GV	GATE VALVE	SAN	SANITARY SEWER
B-B	BACK TO BACK	HDPE	HIGH DENSITY POLYETHYLENE	SCH	SCHEDULE
BIT	BITUMINOUS	HH	HANDHOLE	SERV	SERVICE
BLDG	BUILDING	HP	HIGH POINT	SHLD	SHOULDER
BMP	BEST MANAGEMENT PRACTICE	HWL	HIGH WATER LEVEL	STA	STATION
BR	BEGIN RADIUS	HYD	HYDRANT	STD	STANDARD
BV	BUTTERFLY VALVE	I	INVERT	STM	STORM SEWER
CB	CATCH BASIN	K	CURVE COEFFICIENT	TC	TOP OF CURB
C&G	CURB AND GUTTER	L	LENGTH	TE	TEMPORARY EASEMENT
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TEMP	TEMPORARY
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TNH	TOP NUT HYDRANT
CL	CENTER LINE	LT	LEFT	TP	TOP OF PIPE
CL.	CLASS	MAX	MAXIMUM	TYP	TYPICAL
CLVT	CULVERT	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	VERT	VERTICAL
C.O.	CHANGE ORDER	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
COMM	COMMUNICATION	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
CON	CONCRETE	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
CSP	CORRUGATED STEEL PIPE	NTS	NOT TO SCALE	WM	WATERMAIN
DIA	DIAMETER	NWL	NORMAL WATER LEVEL		
DIP	DUCTILE IRON PIPE	OHW	ORDINARY HIGH WATER LEVEL		
DWY	DRIVEWAY	PC	POINT OF CURVE	AC	ACRES
E	EXTERNAL CURVE DISTANCE	PCC	POINT OF COMPOUND CURVE	CF	CUBIC FEET
ELEC	ELECTRIC	PE	PERMANENT EASEMENT	CV	COMPACTED VOLUME
ELEV	ELEVATION	PED	PEDESTRIAN, PEDESTAL	CY	CUBIC YARD
EOF	EMERGENCY OVERFLOW	PERF	PERFORATED PIPE	EA	EACH
ER	END RADIUS	PERM	PERMANENT	EV	EXCAVATED VOLUME
ESMT	EASEMENT	PI	POINT OF INTERSECTION	LB	POUND
EX	EXISTING	PL	PROPERTY LINE	LF	LINEAR FEET
FES	FLARED END SECTION	PRC	POINT OF REVERSE CURVE	LS	LUMP SUM
F-F	FACE TO FACE	PT	POINT OF TANGENT	LV	LOOSE VOLUME
FF	FINISHED FLOOR	PVC	POLYVINYL CHLORIDE PIPE	SF	SQUARE FEET
F&I	FURNISH AND INSTALL	PVMT	PAVEMENT	SV	STOCKPILE VOLUME
FM	FORCEMAIN	R	RADIUS	SY	SQUARE YARD
FO	FIBER OPTIC	R/W	RIGHT-OF-WAY		
F.O.	FIELD ORDER	RCP	REINFORCED CONCRETE PIPE		
GRAN	GRANULAR	RET	RETAINING		







I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

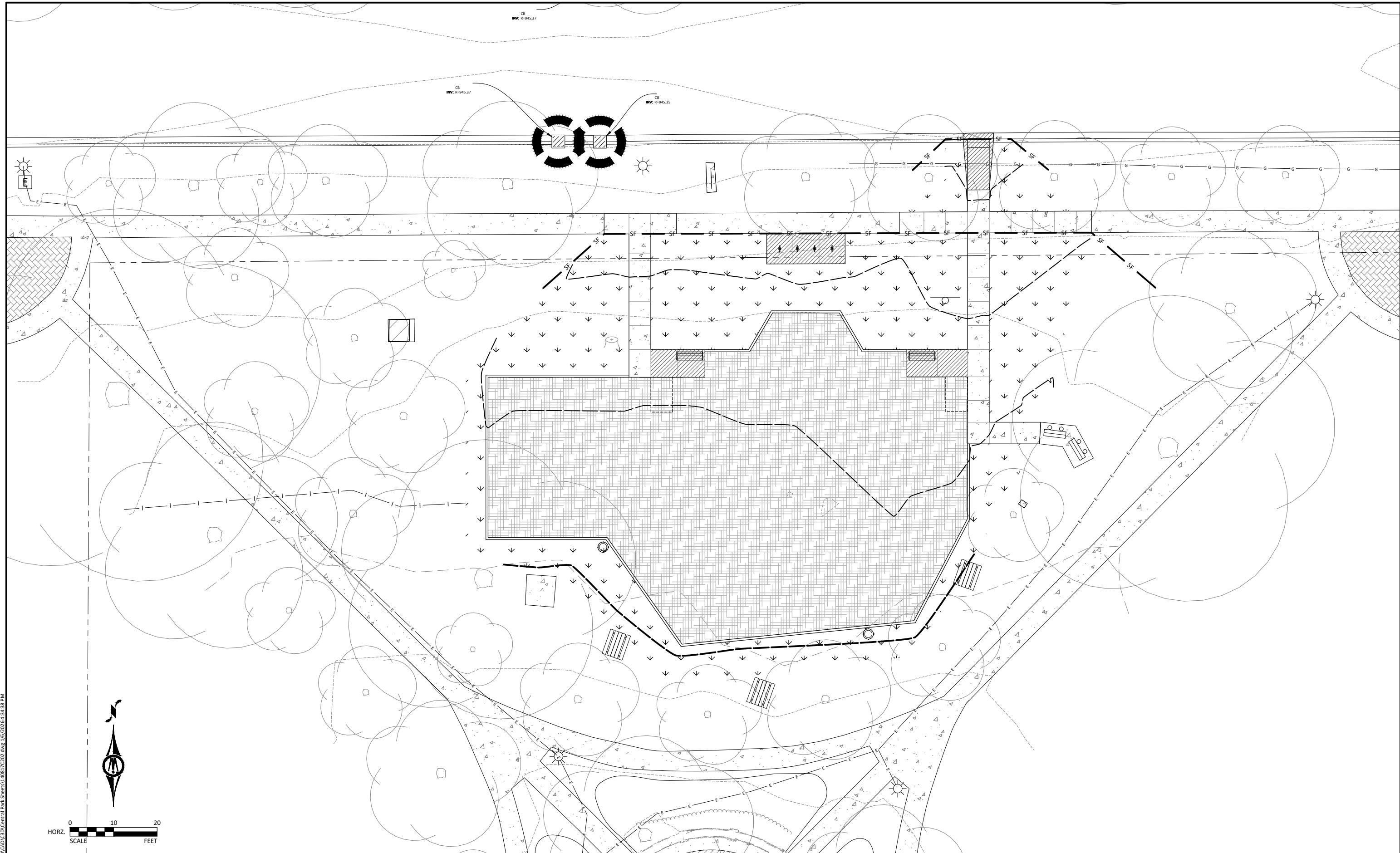
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NORTHFIELD, MINNESOTA
CENTRAL PARK SITE IMPROVEMENTS
GRADING PLAN



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NORTHFIELD, MINNESOTA
CENTRAL PARK SITE IMPROVEMENTS
EROSION CONTROL & TURF ESTABLISHMENT PLAN

SHEET
C2.02

