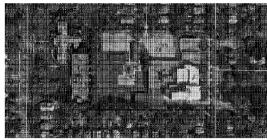


Regional Map



Site Map

# John Walton Spencer School 16

A/C, Crawlspace and Site Work Project

# **Bid Set**

May 6, 2020

321 Post Avenue Rochester, NY 14619

**SWBR Project #** 16158.00

Additions & Alterations SED Control #26-16-00-01-0-016-020

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E-424.1 CRAWL SPACE SUMP PUMP WORK - ELECTRICAL

# Owner:

Rochester Joint Schools Construction 70 Carlson Street, Suite 200 Rochester, NY 14610

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# Mechanical / Electrical Engineer:

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# Civil / Plumbing / Fire Protection Engineer:

Watts Architecture & Engineering 95 Perry St, Suite 300, Buffalo, NY 14203 (716) 206-5130 **SWBR** 

309 South Franklin Street Syracuse NY 13: 315 488 5635 | syracuse@swbr.com

Drawn By: SL

Checked By: AMS

Project Manager: AMS

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John Waiton Spencer School 1 321 Post Avenue Rochester, NY 14819

SWBR Project Number 16158.00

Rochester Joint Schools Construction Board 70 Carlson Street, Suite 200 Rochester, NY 14810

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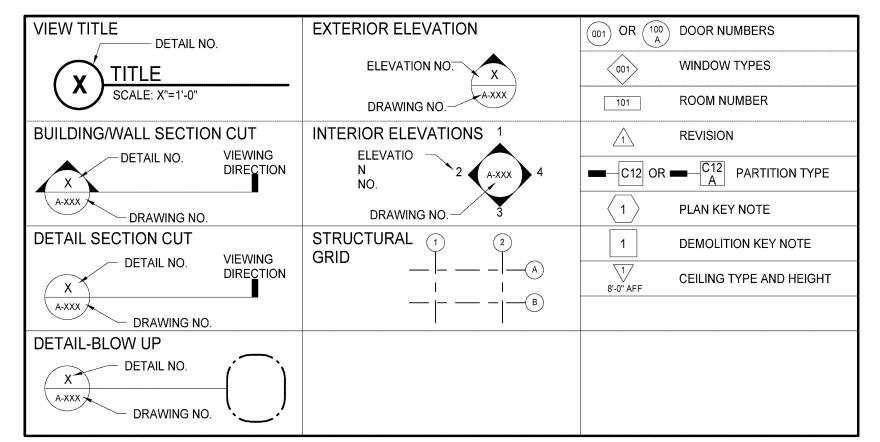
May 6, 2020

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# **GENERAL NOTES:**

- 1. ALL GENERAL NOTES PERTAIN TO ALL ARCHITECTURAL (A-SERIES) DRAWINGS IN THIS SET
- 2. IN NEW MASONRY WALL CONSTRUCTION THE GENERAL CONTRACTOR SHALL PROVIDE LINTELS FOR ALL OPENINGS EXCEEDING 16" WIDE, INCLUDING BUT NOT LIMITED TO DOORS, WINDOWS, CLEAR PASSAGES, FIRE EXTINGUSHER CABINETS, DUCTS, ETC.. LINTEL LOCATIONS FOR PLUMBING, ELECTRICAL AND MECHANICAL WORK ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 3. COORDINATION BETWEEN THE GENERAL CONTRACTOR AND THE OTHER CONTRACTORS MUST OCCUR BEFORE THE NEW WALLS ARE CONSTRUCTED. SHOULD A PRIME CONTRACTOR FAIL TO PROPERLY COORDINATE WITH THE GENERAL CONTRACTOR, OR SHOULD ADDITIONAL OPENINGS BE REQUIRED, THAT PRIME CONTRACTOR WILL BE REQUIRED TO MAKE THEIR OWN PENETRATION IN THE WALL AND INSTALL THEIR OWN LINTEL.
- 4. FOR NEW OPENINGS IN EXISTING MASONRY WALLS; UNLESS SPECIFICALLY INDICATED OTHERWISE, THE TRADE REQUIRING THE OPENING SHALL PROVIDE THE DEMOLITION, LINTEL INSTALLATION AND RECONSTRUCTION
- 5. SEE LINTEL SCHEDULE ON THE STRUCTURAL DRAWINGS FOR SIZE REQUIREMENTS AND LOADING CONDITIONS. VERIFY EXACT CONDITIONS IN THE FIELD.
- ALL EXISTING DIMENSIONS ARE APPROXIMATE AND FOR CONTRACTORS VERIFICATIONS. IF DISCREPANCIES ARISE, NOTIFY THE ARCHITECT (AND/OR CONSTRUCTION MANAGER) PRIOR TO PROCEEDING WITH THE WORK THAT MAY BE EFFECTED BY THE DIMENSION CHANGE
- 7. EVERY ATTEMPT HAS BEEN MADE TO INDICATE PERTINENT EXISTING UTILITIES AND CONDITIONS AS ACCURATELY AS POSSIBLE FROM EXISTING SURVEYS, DRAWINGS AND OTHER DATA. PRIOR TO THE BID OPENING, CONTRACTORS SHALL WALK THE JOB SITE AND SATISFY THEMSELVES TO EXISTING CONDITIONS. THE ARCHITECT SHALL BE CONSULTED WHEN ANY QUESTION ARISES RELATIVE TO MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED
- 8. ALL EXISTING WORK (CEILINGS, FLOORS, WALLS, PARTITIONS, FINISHES, ETC.) DISTURBED BY NEW CONSTRUCTION, INCLUDING MECHANICAL, PLUMBING, AND ELECTRICAL, SHALL BE PATCHED AND REPAIRED TO RESTORE SURFACES TO THE ORIGINAL CONDITION AFTER INSTALLATION OF OTHER WORK
- 9. PENETRATIONS THROUGH FIRE-RESISTANT CONSTRUCTION SHALL BE BUILT IN ACCORDANCE WITH U.L. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS. SEE CODE COMPLIANCE PLAN FOR PARTITION LOCATIONS. PENETRATIONS THROUGH NON FIRE-RESISTANT RATED HORIZONTAL ASSEMBLIES, NOT PROTECTED BY A SHAFT ENCLOSURE, SHALL HAVE ITS ANNULAR SPACE FILLED WITH NON-COMBUSTIBLE MATERIAL TO PREVENT THE PASSAGE OF FLAME, SMOKE FUMES, AND HOT GASES. NON-COMBUSTIBLE PENETRATING ITEMS SHALL NOT PENETRATE MORE THAN 3 FLOOR ASSEMBLIES. COMBUSTIBLE PENETRATING ITEMS SHALL NOT PENETRATE MORE THAN 1 FLOOR ASSEMBLY
- 10. GYPSUM BOARD JOINT TREATMENT IN CONCEALED SPACES SHALL BE FIRE TAPED. UNLESS OTHERWISE INDICATED IN A SPECIFIC UL DESIGN, JOINTS SHALL BE TAPED, AND JOINTS AND FASTENER HEADS COVERED WITH ONE COAT OF JOINT COMPOUND. BASE LAYERS IN MULTI-LAYER SYSTEMS ARE NOT REQUIRED TO HAVE JOINTS OR FASTENER HEADS TAPED OR COVERED WITH JOINT COMPOUND.

# DRAWING SYMBOLS



# MATERIAL SYMBOLS

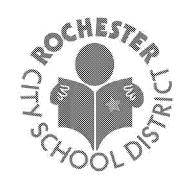
	UNDISTURBED EARTH	STEEL-LARGE-SCALE (Other metals as noted)		BATT INSULATION
	GRAVEL OR CRUSHED STONE	STEEL-SMALL-SCALE (Other metals as noted)		RIGID INSULATION
	STONE	WOOD FRAMING (CONTINUOUS	)	WOOD BLOCKING(INTERMITTEN
14 14	CONCRETE	FINISH WOOD		
	CONCRETE MASONRY UNIT	PLYWOOD	-	
	BRICK	GYPSUM, SAND, MORTAR		

# LIST OF ARCHITECTURAL/STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT	CLR	CLEAR, COLOR	ENCL	ENCLOSURE	HSS	HOLLOW STRUCTURAL SECTION	MO	MASONRY OPENING	PVG	PAVING	T&B	TOP AND BOTTOM
A/C	AIR CONDITION(ING) (ED)	CMT	CERAMIC MOSAIC TILE	ENGR	ENGINEER	HT	HEIGHT	MTD	MOUNTED	QT	QUARRY TILE	T&G	TONGUE AND GROOVE
ACC	ACCESSIBLE	CMU	CONCRETE MASONRY UNIT	EOS	EDGE OF SLAB	HTG	HEATING	MTL	METAL	QTR	QUARTER	ТВ	TACK BOARD
ACCU	AIR COOLED CONDENSING UNIT	CNTR	COUNTER	EP	ELECTRIC PANEL	HTR	HEATER	MULL	MULLION	QTY	QUANTITY	TEL	TELEPHONE
ACI	AMERICAN CONCRETE INSTITUTE	co	CLEANOUT, CASED OPENING.	EQ.	EQUAL	HVAC	HEATING, VENTILATING AND AIR	N	NORTH	R	RISER, RADIUS, THERMAL	THRES	THRESHOLD
ACT	ACOUSTICAL CEILING TILE	••	COMPANY	EQUIP	EQUIPMENT		CONDITIONING	NAT	NATURAL		RESISTANCE	TEMP	TEMPORARY
ACM	ASBESTOS CONTAINING MATERIAL	COL	COLUMN	ES	EMERGENCY SHOWER	HW	HOT WATER	NCOMBL	NONCOMBUSTIBLE	RB	RUBBER BASE, RESILIENT BASE	TER	TERRAZZO
ACOUS PN		CONC	CONCRETE	ETC	ET CETERA	HYD	HYDRANT	NIC	NOT IN CONTRACT	RCP	REINFORCED CONCRETE PIPE.	THK	THICK(NESS)
	ACCESS PANEL	CONF	CONFERENCE			ID		NO OR #		KCP	REFLECTED CEILING PLAN	TMPD	
				ETR	EXISTING TO REMAIN	IN	INSIDE DIAMETER		NUMBER	DD.			TEMPERED
ADDL	ADDITIONAL	CONN	CONNECT(ION)	EW	EACH WAY		INCHES	NOM	NOMINAL	RD	ROOF DRAIN, ROAD	TOC	TOP OF CONCRETE
ADJ	ADJUSTABLE, ADJACENT	CONSTR	CONSTRUCTION	EWC	ELECTRIC WATER COOLER	INCL	INCLUDED	NORM	NORMAL	REC	RECESSED	TOM	TOP OF MASONRY
ADH	ADHESIVE	CONT	CONTINUE(OUS)	EXIST	EXISTING	INCAND	INCANDESCENT	NRC	NOISE REDUCTION COEFFICIENT	REF	REFRIGERATOR	TOPO	TOPOGRAPHY, TOPOGRAPHIC
AFF	ABOVE FINISHED FLOOR	CONTR	CONTRACT(OR)	EXC	EXCAVATION, EXCAVATE	INFO	INFORMATION	NTS	NOT TO SCALE	REFL	REFLECT	TOS	TOP OF STEEL
AGGR	AGGREGATE	COORD	COORDINATE	EXP	EXPAND, EXPANSION	INSUL	INSULATION	NWC	NORMAL WEIGHT CONCRETE	REG	REGISTER, REGULATION	TOW	TOP OF WALL
AHU	AIR HANDLING UNIT	CPT	CARPET	EXT	EXTERIOR, EXTERNAL,	INTERM	INTERMEDIATE	0/0	OUT TO OUT	REINF	REINFORCED	TPD	TOILET PAPER DISPENSER
AISC	AMERICAN INSTITUTE OF STEEL	CSJ	CONSTRUCTION JOINT		EXTINGUISHER	INT	INTERIOR	OA	OVERALL, OUTSIDE AIR	REQD	REQUIRED	TSTAT	THERMOSTAT
1	CONSTRUCTION	CSK	COUNTER SUNK	F/F	FACE TO FACE	IWB	INTERACTIVE WHITE BOARD	oc	ON CENTER	RESIL	RESILIENT	TV	TELEVISION
AISI	AMERICAN IRON AND STEEL	CT	CERAMIC TILE, COUNT, CURRENT	FAAP	FIRE ALARM ANNUNCIATOR	JAN	JANITOR	OD	OUTSIDE DIAMETER	REV	REVISION	TYP	TYPICAL
7 (10)	INSTITUTE	•.	TRANSFORMER	1700	PANEL	JST	JOIST	OF/CI	OWNER FURNISHED. CONTACTOR	RF	RESILIENT FLOORING	ι υ΄΄	HEAT TRANSFER COEFFICIENT
ALT	ALTERNATE	CTR	CENTER	FACP	FIRE ALARM CONTROL PANEL	JT	JOINT	01701	INSTALLED	RFG	ROOFING	ÜC	UNDERCUT
ALUM	ALUMINUM	cw	COLD WATER PIPING, CASEMENT	FD	FLOOR DRAIN	KIP	1000 POUNDS	OF/OI	OWNER FURNISHED. OWNER	RH	RIGHT HAND, ROOF HATCH	UCL	UNDER CABINET LIGHTING
ANOD	ANODIZED	CVV	WINDOW			KIT	KITCHEN	OF/OI	INSTALLED	RM	ROOM		
APPROX		cu		FDTN	FOUNDATION			OFD		RO		UGND	UNDERGROUND
	APPROXIMATE		CUBIC	FE	FIRE EXTINGUISHER	KO	KNOCKOUT		OVERFLOW DRAIN		ROUGH OPENING	UH	UNIT HEATER
ARCH	ARCHITECT(URAL)	CUH	CABINET UNIT HEATER	FEC	FIRE EXTINGUISHER CABINET	KPL	KICK PLATE	OFF	OFFICE	ROW	RIGHT OF WAY	UL	UNDERWRITER'S
ARD	AUXILLARY ROOF DRAIN	CU YD	CUBIC YARD	FHC	FIRE HOSE CABINET	L	LITER, ANGLE	OH	OPPOSITE HAND	RTU	ROOF TOP UNIT		LABORATORIES
ASD	ALLOWABLE STRESS DESIGN	D	DEEP, DEPTH	FIN	FINISH(ED)	LAM	LAMINATE(D)	OH DR	OVERHEAD (COILING) DOOR	RV	ROOF VENT	UNEX	UNEXCAVATED
ASTM	AMERICAN SOCIETY FOR TESTING	D	PENNY (NAIL)	FIXT	FIXTURE	LAU	LAUNDRY	OPNG	OPENING	RWB	RUBBER WALL BASE	UNFIN	UNFINISHED
	AND MATERIALS	db	BAR DIAMETER	FLASH	FLASHING	LAV	LAVATORY	OPP	OPPOSITE	S	SOUTH	UON	UNLESS OTHERWISE NOTED
AWP	ACOUSTICAL WALL PANEL	DBL	DOUBLE	FLEX	FLEXIBLE	LB	POUND	OPT	OPTIONAL, OPTIMUM	SAB	SOUND ATTENUATION BATTS	UTIL	UTILITY
AWS	AMERICAN WELDING SOCIETY	DEFS	DIRECT-APPLIED EXTERIOR FINISH	FLOUR	FLUORESCENT	LBL	LABEL	OZ	OUNCE	SAN	SANITARY	UV	UNIT VENTILATOR
BAT	BATTEN		SYSTEM	FLG	FLOORING, FLANGE	LD	LOAD	PA	PUBLIC ADDRESS	SC	SOLID CORE, SHADING	VARN	VARNISH(ED)
B/B	BACK TO BACK	DEG	DEGREE	FO	FINISHED OPENING	LF	LINEAR FEET (FOOT)	PBD	PARTICLEBOARD		COEFFICIENT	VB	VINYL BASE
B BD	BASE BOARD	DEMO	DEMOLITION	FP	FIRE PROTECTION, FIREPROOF	LH	LEFT HAND, LATENT HEAT	PC	PLUMBING CONTRACTOR.	SCHED	SCHEDULE	VCT	VINYL COMPOSITION TILE
BCNYS	BUILDING CODE OF NEW YORK	DEPT	DEPARTMENT	FRTW	FIRE RETARDANT TREATED	LIN	LINEAR	' 0	PORTLAND CEMENT	SEAL	SEALER ON FLOOR (FINISH)	VENT	VENTILATION
BUNTS	STATE	DET	DETAIL	LIKTVV		LKR	LOCKER	PCC	PRECAST CONCRETE	SECT	SECTION		
вітим					WOOD	LKK		PCT		SECT	SQUARE FOOT, SAFETY FACTOR	VERT	VERTICAL
	BITUMINOUS	DF	DRINKING FOUNTAIN	FT	FOOT, FEET		LIVE LOAD		PORCELAIN CERAMIC TILE			VEST	VESTIBULE
BD	BOARD	DIA OR ø	DIAMETER	FTG	FOOTING	LLH	LONG LEG HORIZONTAL	PED	PEDESTAL	SFRM	SPRAYED FIRE-RESISTIVE	VIF	VERIFY IN FIELD
BLDG	BUILDING	DIAG	DIAGONAL, DIAGRAM	FTR	FINNED TUBE RADIATION	LLV	LONG LEG VERTICAL	PEND	PENDANT		MATERIAL	VIN	VINYL
BLKG	BLOCKING	DIM	DIMENSION	FURN	FURNACE, FURNITURE, FURNISH	LOC	LOCATION	PER	PERIOD	SGT	STRUCTURAL GLAZED TILE	VOL	VOLUME
BM	BEAM, BENCHMARK	DIFF	DIFFUSER	FUT	FUTURE	LRFD	LOAD & RESISTANCE FACTOR	PERF	PERFORATED	SHT	SHEET	VR	VAPOR RETARDER
BOT	BOTTOM	DIR	DIRECTION	FWC	FABRIC WALL COVERING		DESIGN	PGBD	PEG BOARD	SHR	SHOWER	VT	VINYL TILE
BR	BEDROOM	DISP	DISPENSER	GA	GAGE	LT	LIGHT	PL	PLATE, PROPERTY LINE	SIM	SIMILAR	V SHT	VINYL SHEET
BRG	BEARING	DIV	DIVISION	GAL	GALLON	LTG	LIGHTING	PLF	PONDS PER LINEAR FOOT	SOG	SLAB ON GRADE	vwc	VINYL WALL COVERING
BRZ	BRONZE	DMPF	DAMP PROOFING	GALV	GALVANIZED	LWC	LIGHT-WEIGHT CONCRETE	PLAM	PLASTIC LAMINATE	SP	STANDPIPE, SUMP PIT	w	WEST
BSMT	BASEMENT	DL	DEAD LOAD	GB	GRAB BAR	MACH	MACHINE	PLAS	PLASTER	SPA	SPACES	W/	WITH
BTWN	BETWEEN	DN	DOWN	GC	GENERAL CONTRACT(OR)	MAINT	MAINTENANCE	PLB	PLUMBING	SPKR	SPEAKER	wc	WATER CLOSET, WALL
BUR	BUILT UP ROOFING	DO	DITTO	GFRC	GLASS FIBER REINFORCED	MAS	MASONRY	PLYWD	PLYWOOD	SPEC	SPECIFICATION	, WO	COVERING
BW	BOTH WAYS	DR	DOOR, DRIVE	GITC	CONCRETE	MATL	MATERIAL	PNL	PANEL	SQ	SQUARE	W/O	WITHOUT
CCTV	CLOSED CIRCUIT TELEVISION	DS	DOWNSPOUT	GFRG	GLASS FIBER REINFORCED	MAX	MAXIMUM	POL	POLISHED	SRD	SECONDARY ROOF DRAIN	WD	WOOD
CAB	CABINET	DW	DISHWASHER	GFRG		MB	MARKER BOARD	PORC	PORCELAIN	SS	SERVICE SINK		
CB		DWV		01	GYPSUM	MC						WDW	WINDOW
	CATCH BASIN, CORNER BEAD		DRAINAGE WASTE & VENT	GL	GLASS, GROUND LEVEL	MCB	MECHANICAL CONTRACTOR	POS PPT	POSITIVE, POSITION	SSM	SOLID SURFACE MATERIAL	WF	WIDE FLANGE
CH BD	CHALKBOARD	DWG	DRAWING	GL BLK	GLASS BLOCK		METAL CORNER BEAD	PPI	PRESSURE-PRESERVATIVE	SSP	STAINLESS STEEL PIPE	WD GD	WOOD GUARD
CEM	CEMENT	DWL	DOWEL	GLU LAM		MDO	MEDIUM DENSITY OVERLAY		TREATED	SST	STAINLESS STEEL	WH	WATER HEATER
CF	CONTRACTOR FURNISHED	E	EAST	GR	GRADE, GROSS	MDF	MEDIUM DENSITY FIBERBOARD	PR	PAIR	STA	STATION	WI	WROUGHT IRON
CFMF	COLD-FORMED METAL FRAMING	EA	EACH	GWT	GLAZED WALL TILE	MECH	MECHANICAL	PREFAB	PREFABRICATE	STC	SOUND TRANSMISSION CLASS	WM	WIRE MESH
CF/CI	CONTRACTOR FURNISHED/	EBCNYS	EXISTING BUILDING CODE OF NEW	GYP	GYPSUM	MEP	MECHANICAL, ELECTRICAL,	PREFIN	PREFINISH	STD	STANDARD	WP	WATERPROOFING, WORKING
	CONTRACTOR INSTALLED		YORK STATE	GYP BD	GYPSUM BOARD		PLUMBING AND FIRE	PREP	PREPARATION	STIFF	STIFFENER		POINT
CF/OI	CONTRACTOR FURNISHED/	EC	ELECTRICAL CONTRACTOR	GYP PLAS	S GYPSUM PLASTER		PROTECTION	PROJ	PROJECT	STL	STEEL	WR	WATER REPELLENT, WEATHER
1	OWNER INSTALLED	EF	EACH FACE	HB	HOSE BIBB	MEZZ	MEZZANINE	PROJ SCR		STOR	STORAGE		RESISTANT
CG	CORNER GUARD	EIFS	EXTERIOR INSULATION AND FINISH		HOLLOW CORE, HOSE CABINET	MFR	MANUFACTURER	PSF	POUNDS PER SQUARE FOOT	STR	STRAIGHT, STRINGERS	W RECET	WASTE RECEPTACLE
CH	COAT HOOK	= 11 0	SYSTEM	HCP	HANDICAPPED	MH	MANHOLE	PSI	POUNDS PER SQUARE INCH	STRUCT	STRUCTURAL	WSCT	WAINSCOT
CI	CAST IRON	EJ	EXPANSION JOINT	HDW	HARDWARE	MM	MILLIMETER	PT	PAINT, POST TENSION	SUSP	SUSPENDED	WT	WEIGHT, WATERTIGHT, WATER
CIP	CAST INON CAST IN PLACE, CAST IRON PIPE	ELAS	ELASTOMERIC	HDWD		MIFRC	MASTIC/INTUMESCENT FIRE-	PTN	PARTITION	SV	SHEET VINYL	VV I	
CJ	CONTROL JOINT	ELAS	ELEVATION		HARDWOOD	MIFKO		PVC	POLYVINYL CHLORIDE (PLASTIC)	SV SY	SQUARE YARD	WWF	TABLE
				HM	HOLLOW METAL	BAINT	RESISTIVE COATING	500	FOLTVINTE CHLORIDE (PLASTIC)	or T			WELDED WIRE FABRIC
CL	CENTERLINE	ELEC	ELECTRIC(AL)	HO	HOLD OPEN	MIN	MINIMUM			I T	TREAD	X	BY
CLG	CEILING	ELEV	ELEVATOR	HORIZ	HORIZONTAL	MISC	MISCELLANEOUS			T/	TOP OF	YD	YARD
CLO	CLOSET	EM	ENTRY MAT, EXPANDED METAL	HP	HIGH POINT, HORSEPOWER	MLWK	MILLWORK						
		EMER	EMERGENCY	HR	HOUR			1					

SWBR

387 East Main Street Rochester NY 14604 585 232 8300 | rochester@swbr.com



Every child is a work of art. Create a masterpiece.

S.E.D. CONTROL NUMBERS 26-16-00-01-0-016-020

Drawn By: SL
Checked By: SL

Project Manager: AMS

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Revisions

John Walton Spencer School 16 321 Post Avenue Rochester, NY 14619 SWBR Project Number 16158.00

Rochester Joint Schools Construction Board 70 Carlson Street, Suite 200 Rochester, NY 14610

G-001.1
GENERAL NOTES &

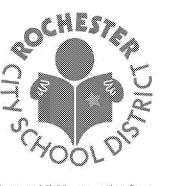
LEGENDS

Bid Set

May 6, 2020

BARRIER IN LIEU OF 2HR FIRE WALL

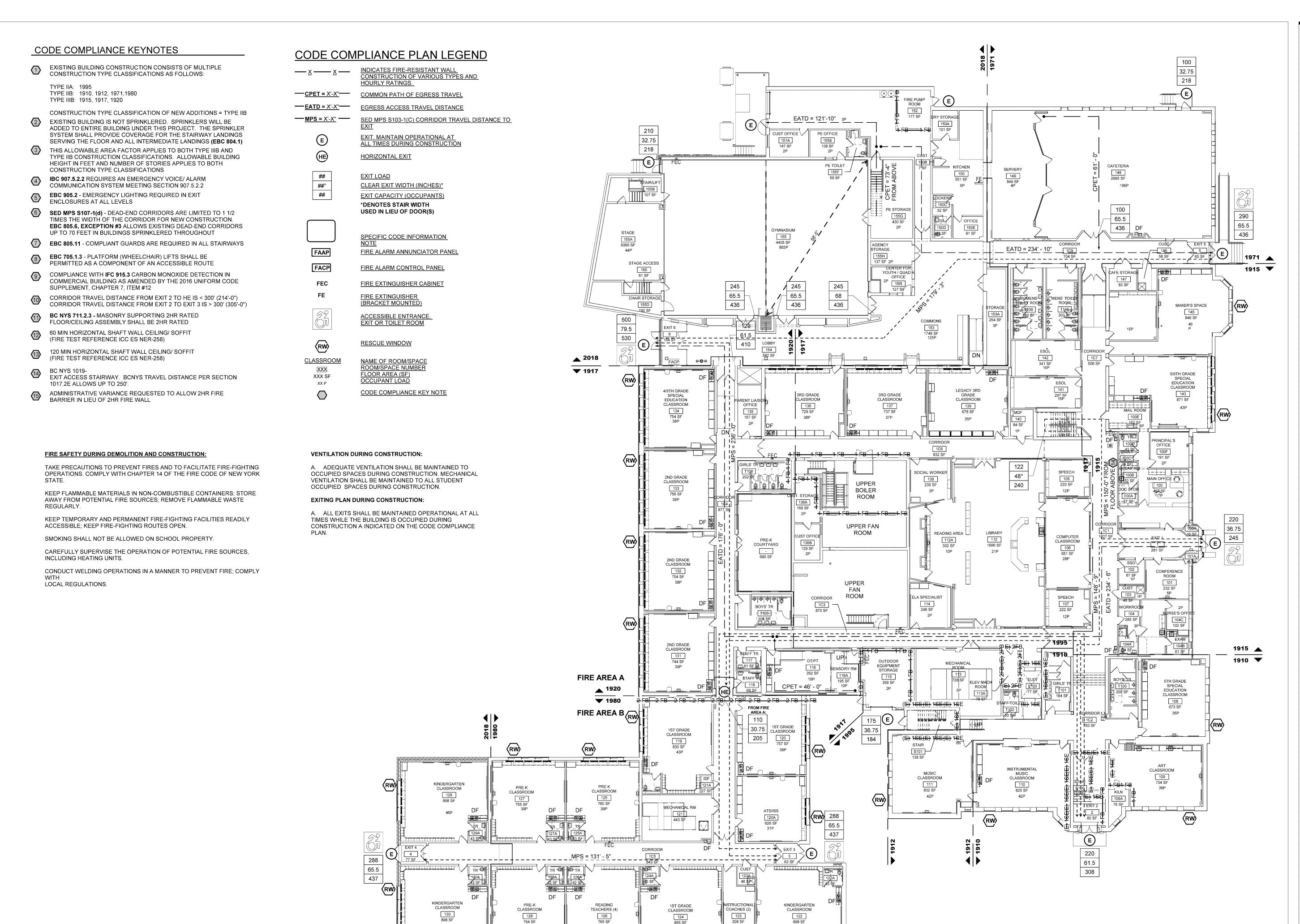
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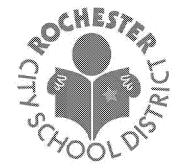
BASEMENT CODE COMPLIANCE PLAN



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Drawn By:SLChecked By:FOIProject Manager:AMS

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Revisions

John Walton Spencer

School 16
321 Post Avenue
Rochester, NY 14619
SWBR Project Number 16158.00

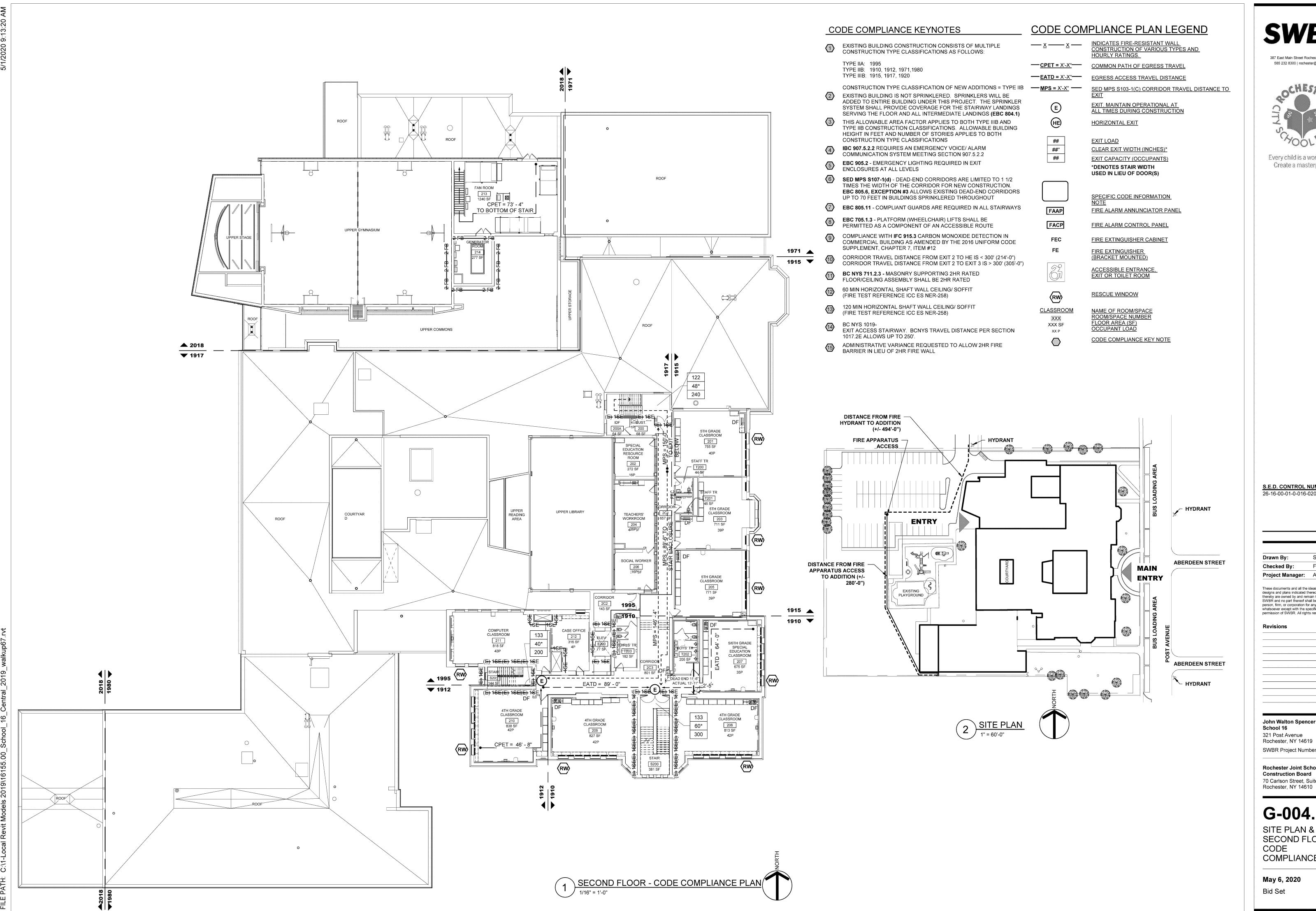
Rochester Joint Schools Construction Board 70 Carlson Street, Suite 200 Rochester, NY 14610

G-003.1

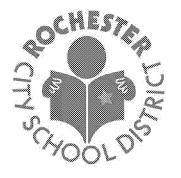
FIRST FLOOR CODE COMPLIANCE PLAN

**May 6, 2020**Bid Set

\ FIRST FLOOR - CODE COMPLIANCE PLAN



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Checked By: FOI Project Manager: AMS

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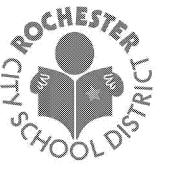
School 16 321 Post Avenue Rochester, NY 14619 SWBR Project Number 16158.00

**Rochester Joint Schools** Construction Board 70 Carlson Street, Suite 200 Rochester, NY 14610

G-004.1

SITE PLAN & SECOND FLOOR CODE COMPLIANCE PLAN

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Drawn By: SL
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Revisions

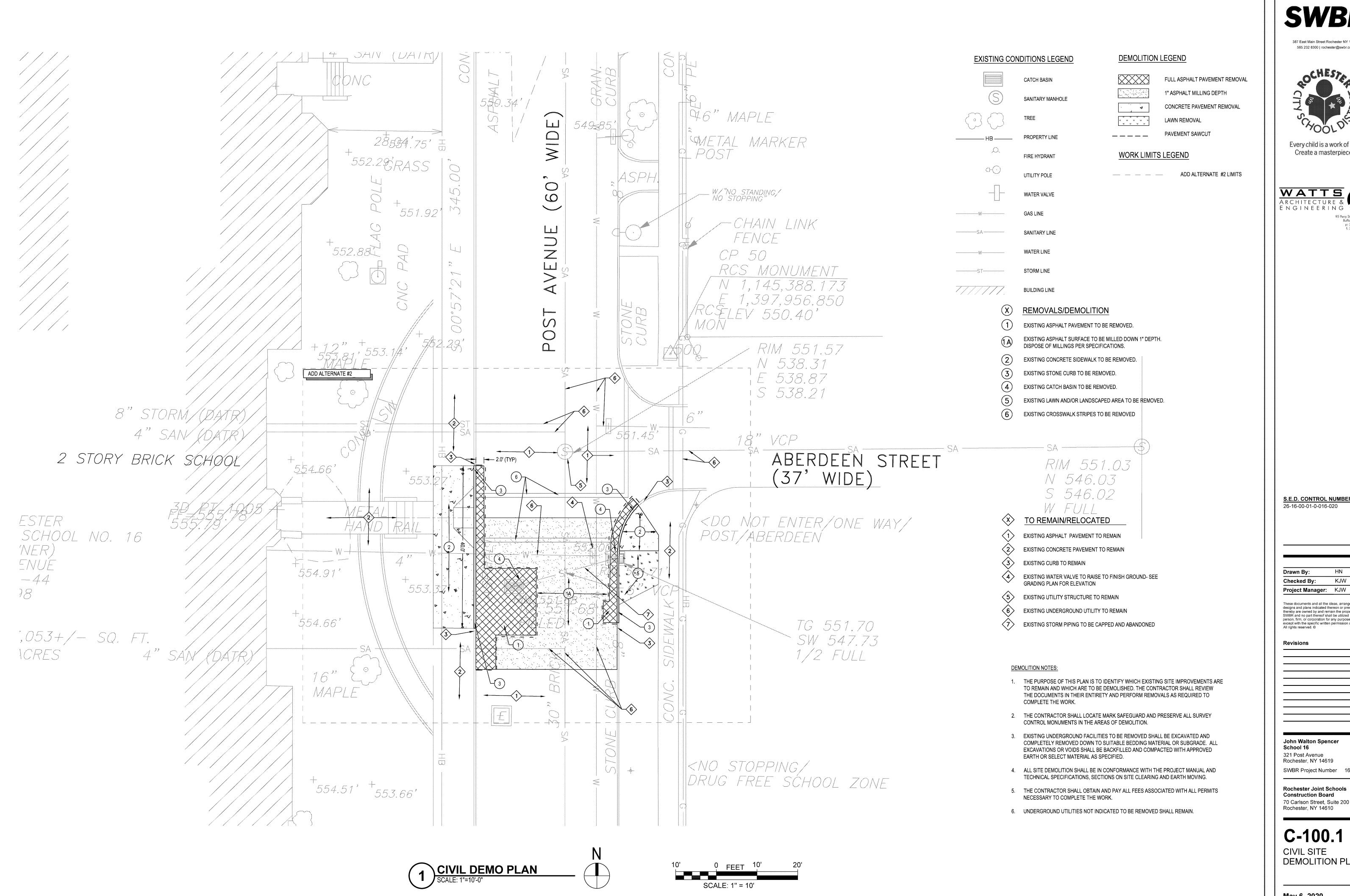
John Walton Spencer School 16

321 Post Avenue Rochester, NY 14619 SWBR Project Number 16158.00

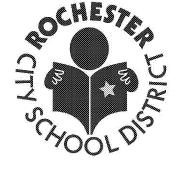
Rochester Joint Schools Construction Board 70 Carlson Street, Suite 200 Rochester, NY 14610

G-005.1

THIRD FLOOR CODE COMPLIANCE PLAN



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KJW

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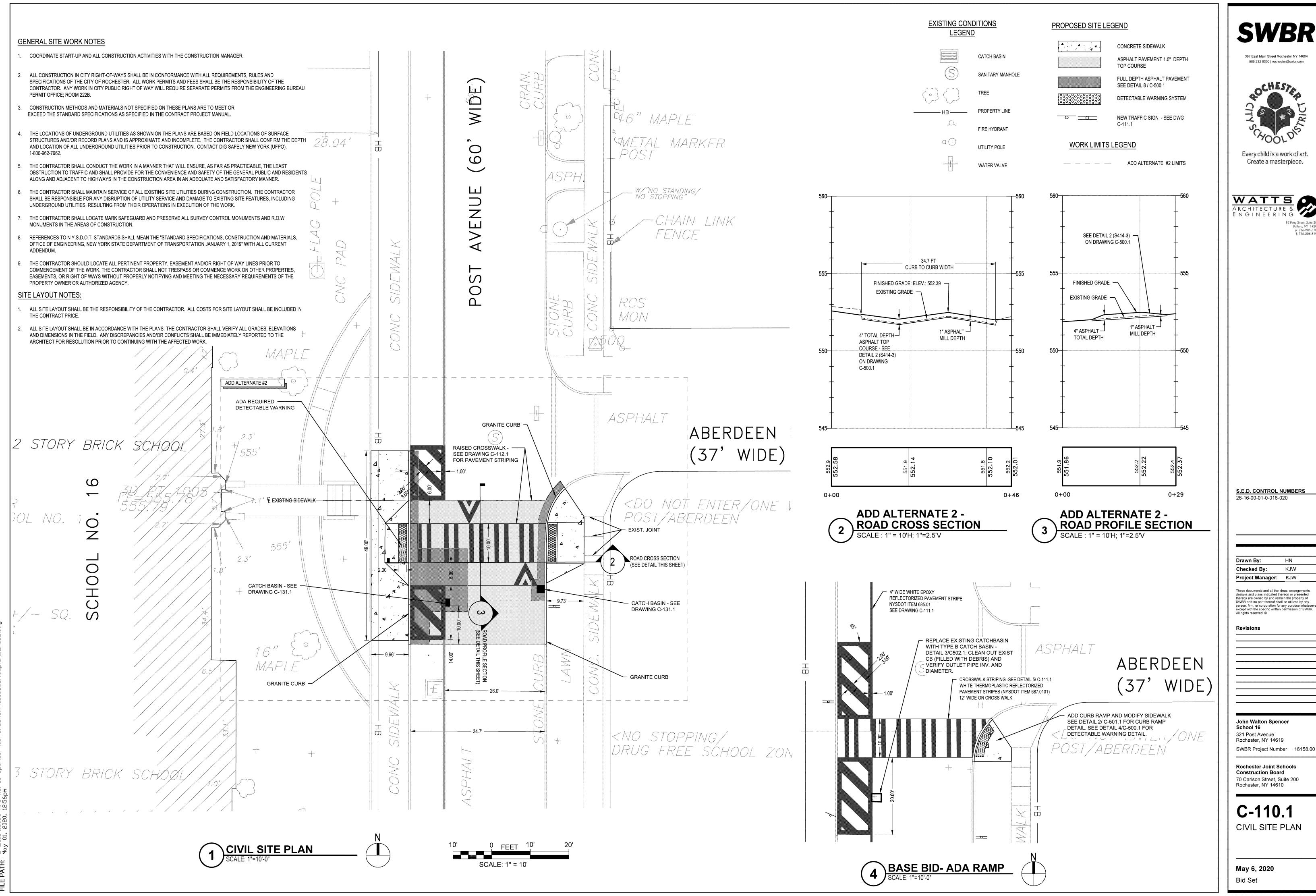
321 Post Avenue Rochester, NY 14619 SWBR Project Number 16158.00

Rochester Joint Schools Construction Board

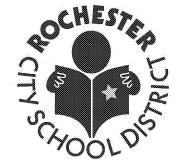
70 Carlson Street, Suite 200 Rochester, NY 14610

C-100.1 CIVIL SITE

**DEMOLITION PLAN** 



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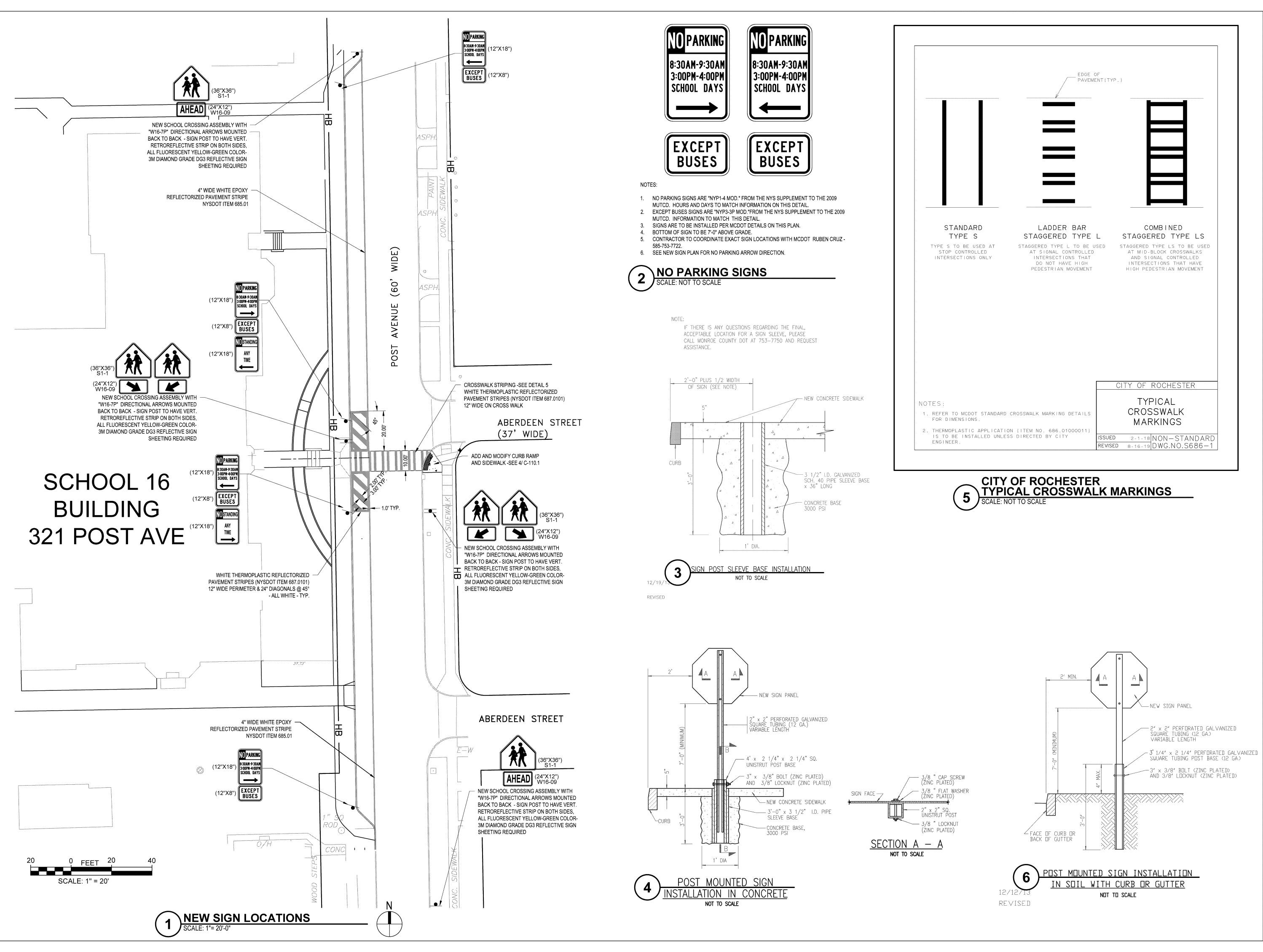
321 Post Avenue Rochester, NY 14619

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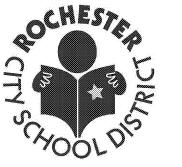
C-110.1

CIVIL SITE PLAN

May 6, 2020



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Drawn By: HN
Checked By: KJW
Project Manager: KJW

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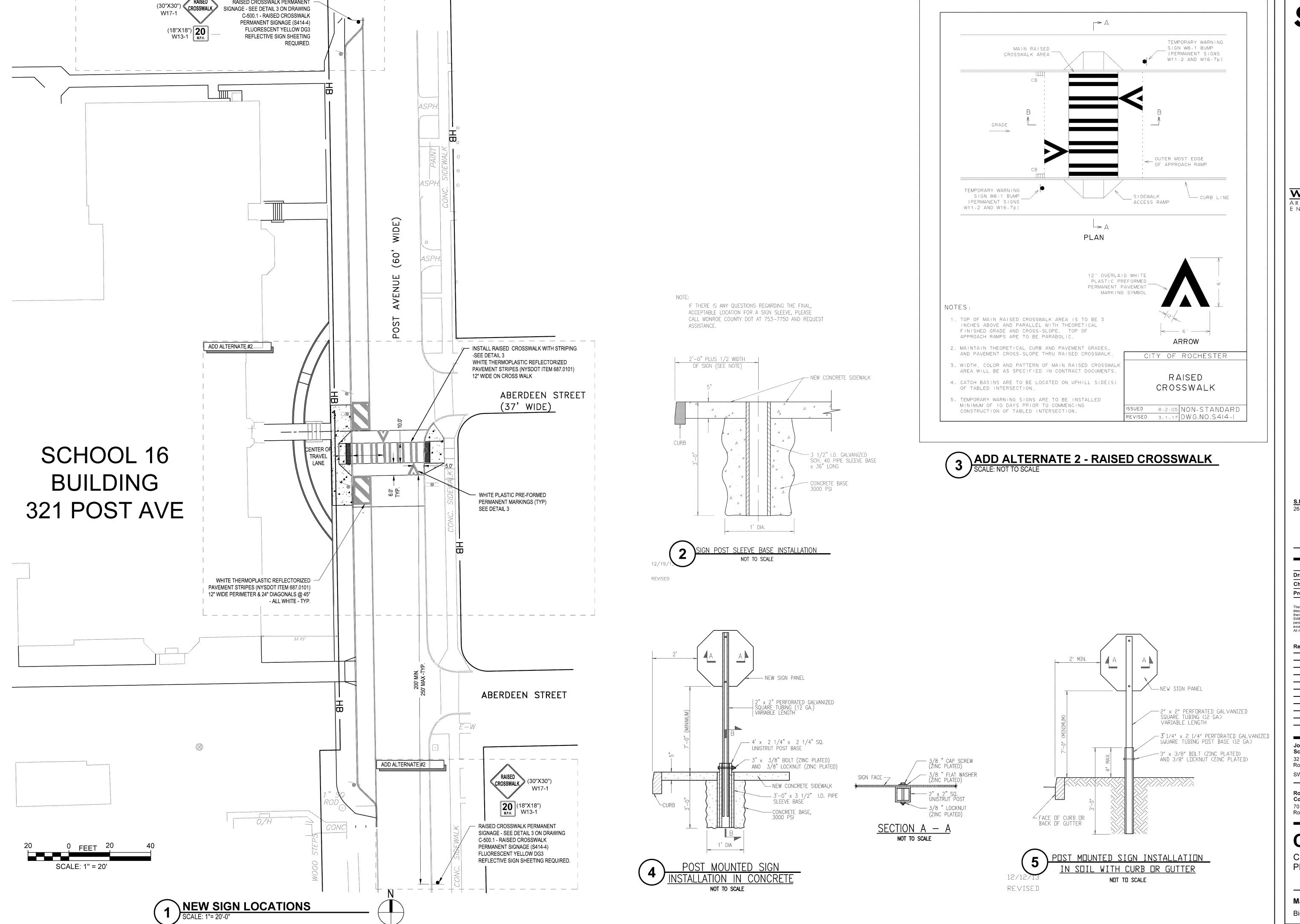
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C-111.1

CIVIL SITE SIGN PLAN

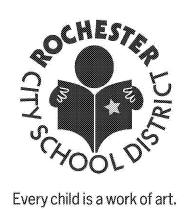


ADD ALTERNATE #2

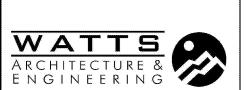
RAISED "

RAISED CROSSWALK PERMANENT

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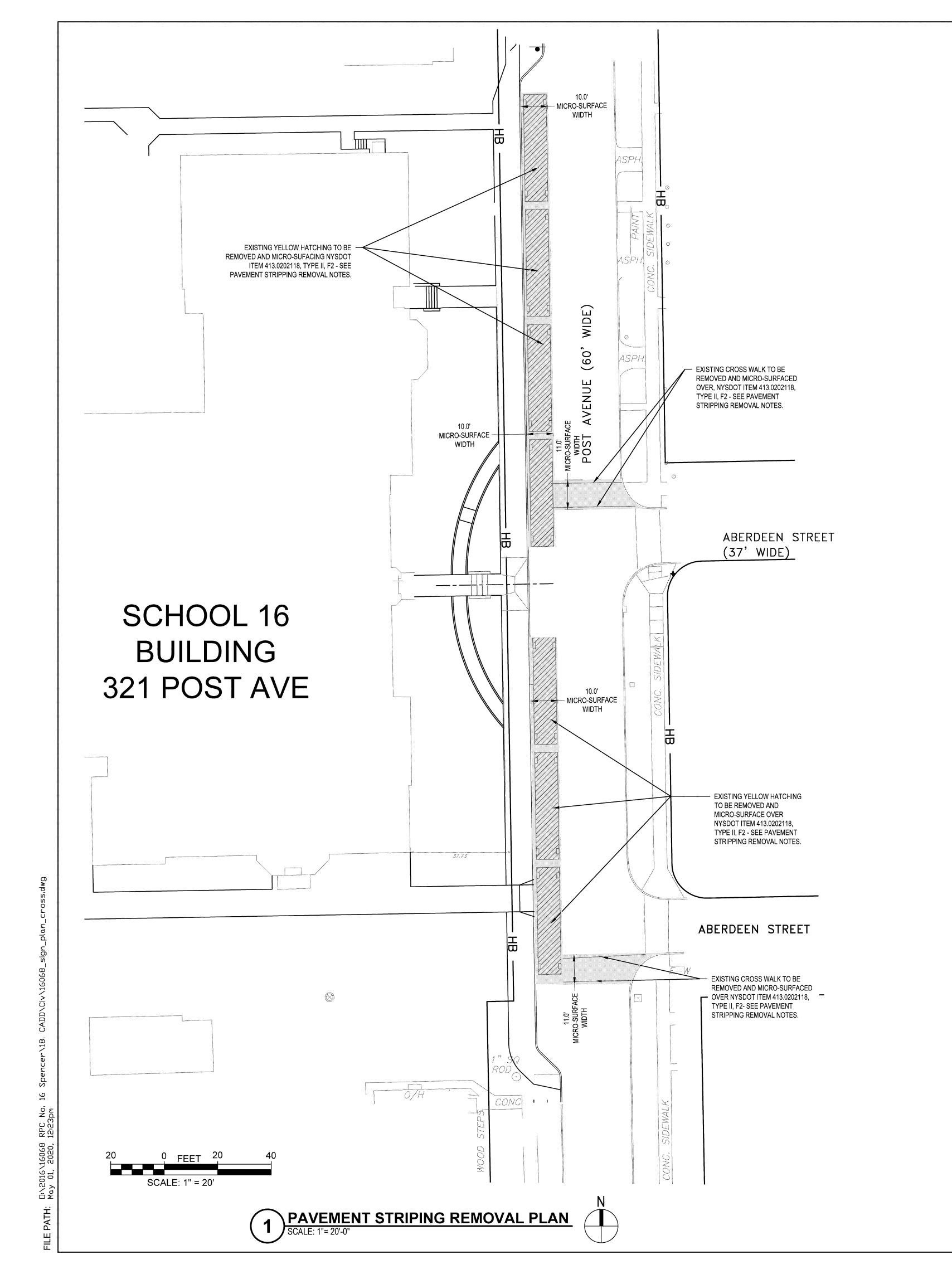
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C-112.1

CIVIL SITE SIGN PLAN



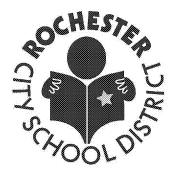
# PAVEMENT HATCHING REMOVAL LEGEND

10' WIDE PAVEMENT HATCH REMOVAL AND MICRO-SURFACING AREA

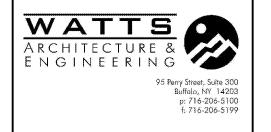
# PAVEMENT STRIPPING REMOVAL NOTES:

 PRIOR TO APPLYING MICRO-SURFACING, CONTRACTOR SHALL SCARIFY PAVEMENT WITH SCARIFIER OR ALTERNATIVE APPROVED METHOD. SWBR

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Revisions

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School 16
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Rochester, NY 14619

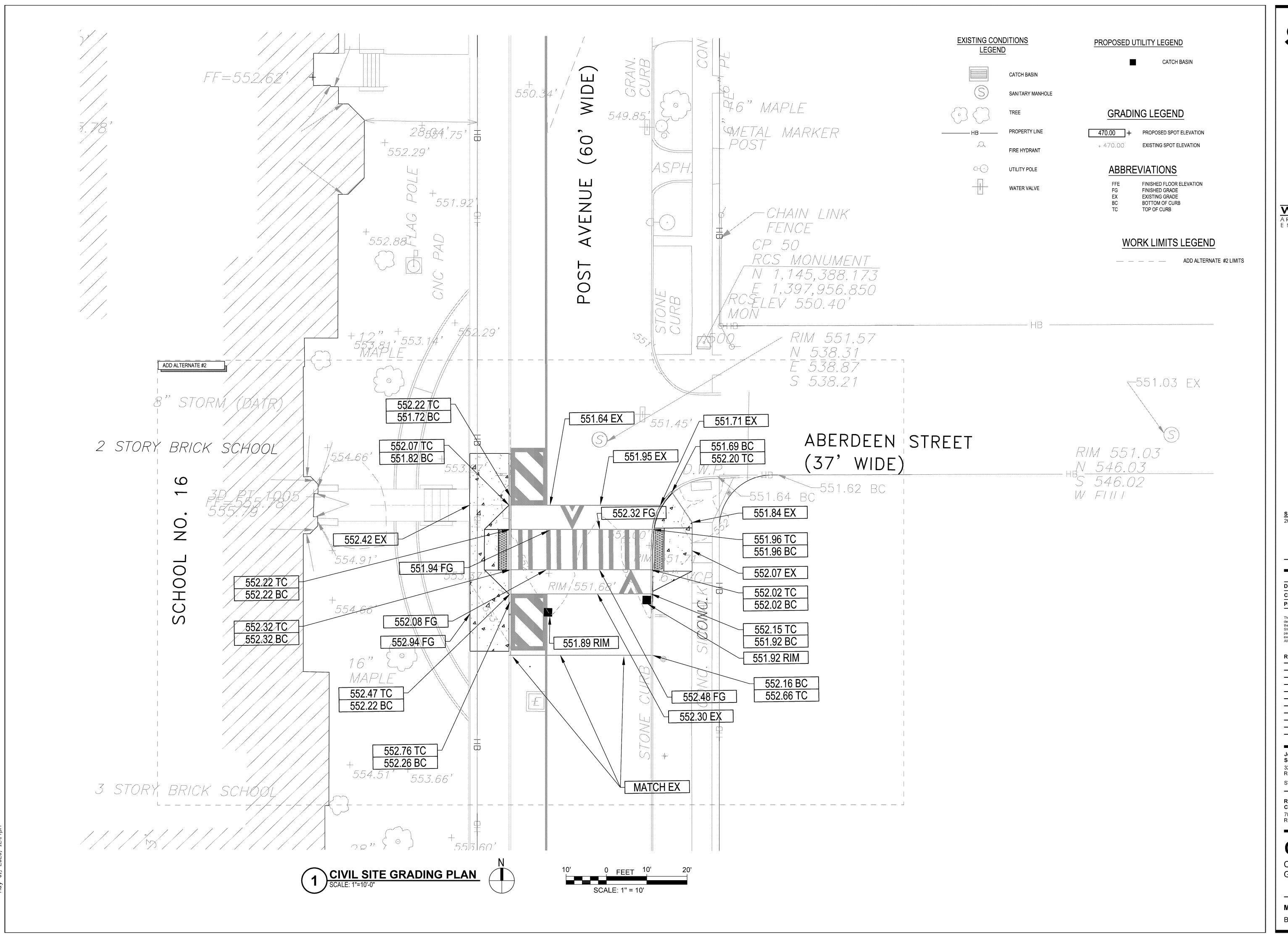
SWBR Project Number 16158.00

Rochester Joint Schools Construction Board 70 Carlson Street, Suite 200 Rochester, NY 14610

C-113.1

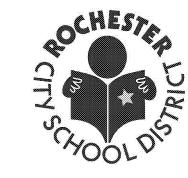
PAVEMENT STRIPING REMOVAL PLAN

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Project Manager: KJW

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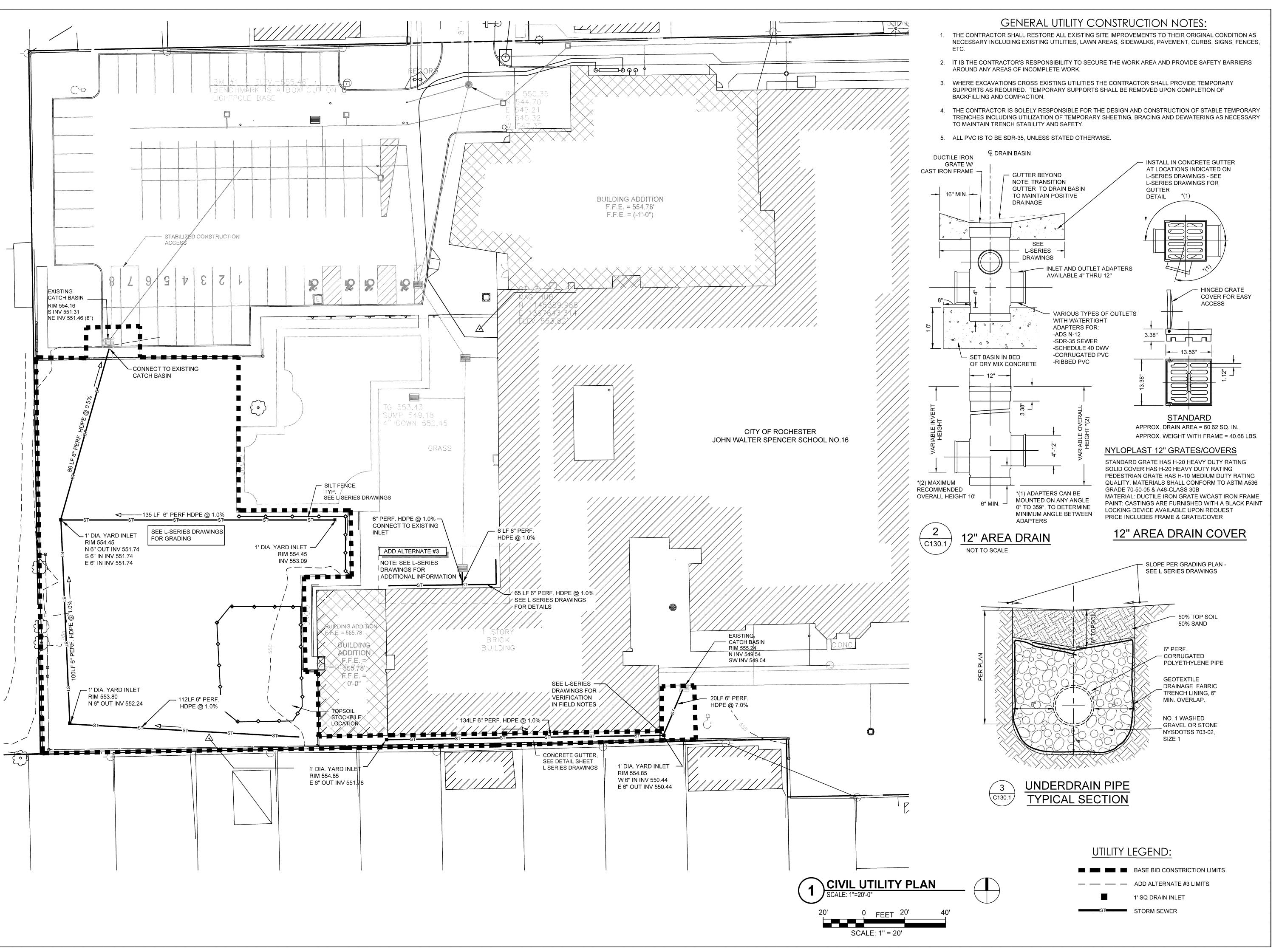
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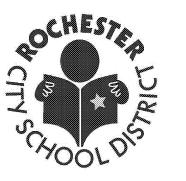
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C120.1

CIVIL SITE GRADING PLAN



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26-16-00-01-0-016-020

Drawn By: RJF
Checked By: KJW
Project Manager: KJW

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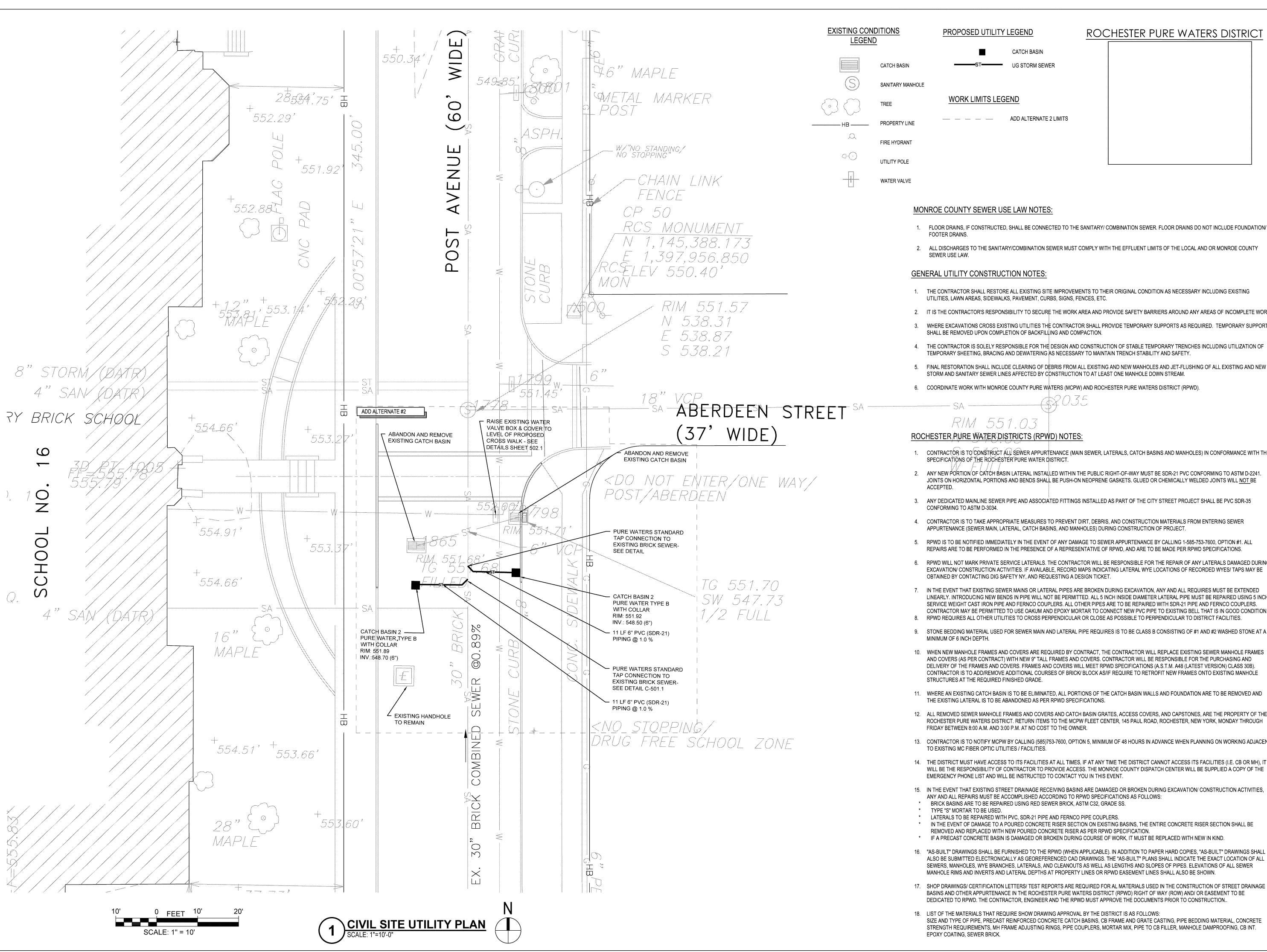
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Rochester Joint Schools
Construction Board

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C-130.1
CIVIL UTILITY PLAN



ROCHESTER PURE WATERS DISTRICT

CATCH BASIN UG STORM SEWER

**WORK LIMITS LEGEND** 

ADD ALTERNATE 2 LIMITS

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- 1. THE CONTRACTOR SHALL RESTORE ALL EXISTING SITE IMPROVEMENTS TO THEIR ORIGINAL CONDITION AS NECESSARY INCLUDING EXISTING UTILITIES, LAWN AREAS, SIDEWALKS, PAVEMENT, CURBS, SIGNS, FENCES, ETC.
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE WORK AREA AND PROVIDE SAFETY BARRIERS AROUND ANY AREAS OF INCOMPLETE WORK
- WHERE EXCAVATIONS CROSS EXISTING UTILITIES THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS AS REQUIRED. TEMPORARY SUPPORTS SHALL BE REMOVED UPON COMPLETION OF BACKFILLING AND COMPACTION.
- 4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF STABLE TEMPORARY TRENCHES INCLUDING UTILIZATION OF
- 5. FINAL RESTORATION SHALL INCLUDE CLEARING OF DEBRIS FROM ALL EXISTING AND NEW MANHOLES AND JET-FLUSHING OF ALL EXISTING AND NEW STORM AND SANITARY SEWER LINES AFFECTED BY CONSTRUCTION TO AT LEAST ONE MANHOLE DOWN STREAM.
- COORDINATE WORK WITH MONROE COUNTY PURE WATERS (MCPW) AND ROCHESTER PURE WATERS DISTRICT (RPWD).

RIM 551.03

# ROCHESTER PURE WATER DISTRICTS (RPWD) NOTES:

- CONTRACTOR IS TO CONSTRUCT ALL SEWER APPURTENANCE (MAIN SEWER, LATERALS, CATCH BASINS AND MANHOLES) IN CONFORMANCE WITH THE
- 2. ANY NEW PORTION OF CATCH BASIN LATERAL INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY MUST BE SDR-21 PVC CONFORMING TO ASTM D-2241
- 3. ANY DEDICATED MAINLINE SEWER PIPE AND ASSOCIATED FITTINGS INSTALLED AS PART OF THE CITY STREET PROJECT SHALL BE PVC SDR-35 CONFORMING TO ASTM D-3034.
- 4. CONTRACTOR IS TO TAKE APPROPRIATE MEASURES TO PREVENT DIRT, DEBRIS, AND CONSTRUCTION MATERIALS FROM ENTERING SEWER APPURTENANCE (SEWER MAIN, LATERAL, CATCH BASINS, AND MANHOLES) DURING CONSTRUCTION OF PROJECT.
- 6. RPWD WILL NOT MARK PRIVATE SERVICE LATERALS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR OF ANY LATERALS DAMAGED DURING EXCAVATION/ CONSTRUCTION ACTIVITIES. IF AVAILABLE, RECORD MAPS INDICATING LATERAL WYE LOCATIONS OF RECORDED WYES/ TAPS MAY BE
- 7. IN THE EVENT THAT EXISTING SEWER MAINS OR LATERAL PIPES ARE BROKEN DURING EXCAVATION, ANY AND ALL REQUIRES MUST BE EXTENDED LINEARLY. INTRODUCING NEW BENDS IN PIPE WILL NOT BE PERMITTED. ALL 5 INCH INSIDE DIAMETER LATERAL PIPE MUST BE REPAIRED USING 5 INCH SERVICE WEIGHT CAST IRON PIPE AND FERNCO COUPLERS. ALL OTHER PIPES ARE TO BE REPAIRED WITH SDR-21 PIPE AND FERNCO COUPLERS.
- CONTRACTOR MAY BE PERMITTED TO USE OAKUM AND EPOXY MORTAR TO CONNECT NEW PVC PIPE TO EXISTING BELL THAT IS IN GOOD CONDITION. 8. RPWD REQUIRES ALL OTHER UTILITIES TO CROSS PERPENDICULAR OR CLOSE AS POSSIBLE TO PERPENDICULAR TO DISTRICT FACILITIES.
- 9. STONE BEDDING MATERIAL USED FOR SEWER MAIN AND LATERAL PIPE REQUIRES IS TO BE CLASS B CONSISTING OF #1 AND #2 WASHED STONE AT A MINIMUM OF 6 INCH DEPTH.
- 10. WHEN NEW MANHOLE FRAMES AND COVERS ARE REQUIRED BY CONTRACT, THE CONTRACTOR WILL REPLACE EXISTING SEWER MANHOLE FRAMES AND COVERS (AS PER CONTRACT) WITH NEW 9" TALL FRAMES AND COVERS. CONTRACTOR WILL BE RESPONSIBLE FOR THE PURCHASING AND DELIVERY OF THE FRAMES AND COVERS, FRAMES AND COVERS WILL MEET RPWD SPECIFICATIONS (A.S.T.M. A48 (LATEST VERSION) CLASS 30B). CONTRACTOR IS TO ADD/REMOVE ADDITIONAL COURSES OF BRICK/ BLOCK AS/IF REQUIRE TO RETROFIT NEW FRAMES ONTO EXISTING MANHOLE STRUCTURES AT THE REQUIRED FINISHED GRADE.
- 11. WHERE AN EXISTING CATCH BASIN IS TO BE ELIMINATED, ALL PORTIONS OF THE CATCH BASIN WALLS AND FOUNDATION ARE TO BE REMOVED AND THE EXISTING LATERAL IS TO BE ABANDONED AS PER RPWD SPECIFICATIONS.
- 12. ALL REMOVED SEWER MANHOLE FRAMES AND COVERS AND CATCH BASIN GRATES, ACCESS COVERS, AND CAPSTONES, ARE THE PROPERTY OF THE ROCHESTER PURE WATERS DISTRICT. RETURN ITEMS TO THE MCPW FLEET CENTER, 145 PAUL ROAD, ROCHESTER, NEW YORK, MONDAY THROUGH FRIDAY BETWEEN 8:00 A.M. AND 3:00 P.M. AT NO COST TO THE OWNER.
- 13. CONTRACTOR IS TO NOTIFY MCPW BY CALLING (585)753-7600, OPTION 5, MINIMUM OF 48 HOURS IN ADVANCE WHEN PLANNING ON WORKING ADJACENT TO EXISTING MC FIBER OPTIC UTILITIES / FACILITIES.
- 14. THE DISTRICT MUST HAVE ACCESS TO ITS FACILITIES AT ALL TIMES, IF AT ANY TIME THE DISTRICT CANNOT ACCESS ITS FACILITIES (I.E. CB OR MH), IT WILL BE THE RESPONSIBILITY OF CONTRACTOR TO PROVIDE ACCESS. THE MONROE COUNTY DISPATCH CENTER WILL BE SUPPLIED A COPY OF THE EMERGENCY PHONE LIST AND WILL BE INSTRUCTED TO CONTACT YOU IN THIS EVENT.
- 15. IN THE EVENT THAT EXISTING STREET DRAINAGE RECEIVING BASINS ARE DAMAGED OR BROKEN DURING EXCAVATION/ CONSTRUCTION ACTIVITIES, ANY AND ALL REPAIRS MUST BE ACCOMPLISHED ACCORDING TO RPWD SPECIFICATIONS AS FOLLOWS:
- \* BRICK BASINS ARE TO BE REPAIRED USING RED SEWER BRICK, ASTM C32, GRADE SS.
- \* TYPE "S" MORTAR TO BE USED.
- \* LATERALS TO BE REPAIRED WITH PVC, SDR-21 PIPE AND FERNCO PIPE COUPLERS. \* IN THE EVENT OF DAMAGE TO A POURED CONCRETE RISER SECTION ON EXISTING BASINS, THE ENTIRE CONCRETE RISER SECTION SHALL BE
- REMOVED AND REPLACED WITH NEW POURED CONCRETE RISER AS PER RPWD SPECIFICATION.
- \* IF A PRECAST CONCRETE BASIN IS DAMAGED OR BROKEN DURING COURSE OF WORK, IT MUST BE REPLACED WITH NEW IN KIND.
- 16. "AS-BUILT" DRAWINGS SHALL BE FURNISHED TO THE RPWD (WHEN APPLICABLE). IN ADDITION TO PAPER HARD COPIES, "AS-BUILT" DRAWINGS SHALL ALSO BE SUBMITTED ELECTRONICALLY AS GEOREFERENCED CAD DRAWINGS. THE "AS-BUILT" PLANS SHALL INDICATE THE EXACT LOCATION OF ALL SEWERS, MANHOLES, WYE BRANCHES, LATERALS, AND CLEANOUTS AS WELL AS LENGTHS AND SLOPES OF PIPES. ELEVATIONS OF ALL SEWER MANHOLE RIMS AND INVERTS AND LATERAL DEPTHS AT PROPERTY LINES OR RPWD EASEMENT LINES SHALL ALSO BE SHOWN.
- 17. SHOP DRAWINGS/ CERTIFICATION LETTERS/ TEST REPORTS ARE REQUIRED FOR AL MATERIALS USED IN THE CONSTRUCTION OF STREET DRAINAGE BASINS AND OTHER APPURTENANCE IN THE ROCHESTER PURE WATERS DISTRICT (RPWD) RIGHT OF WAY (ROW) AND/ OR EASEMENT TO BE DEDICATED TO RPWD. THE CONTRACTOR, ENGINEER AND THE RPWD MUST APPROVE THE DOCUMENTS PRIOR TO CONSTRUCTION..
- 18. LIST OF THE MATERIALS THAT REQUIRE SHOW DRAWING APPROVAL BY THE DISTRICT IS AS FOLLOWS: SIZE AND TYPE OF PIPE, PRECAST REINFORCED CONCRETE CATCH BASINS, CB FRAME AND GRATE CASTING, PIPE BEDDING MATERIAL, CONCRETE STRENGTH REQUIREMENTS, MH FRAME ADJUSTING RINGS, PIPE COUPLERS, MORTAR MIX, PIPE TO CB FILLER, MANHOLE DAMPROOFING, CB INT.

S.E.D. CONTROL NUMBERS 26-16-00-01-0-016-020

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> > KJW

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Checked By:

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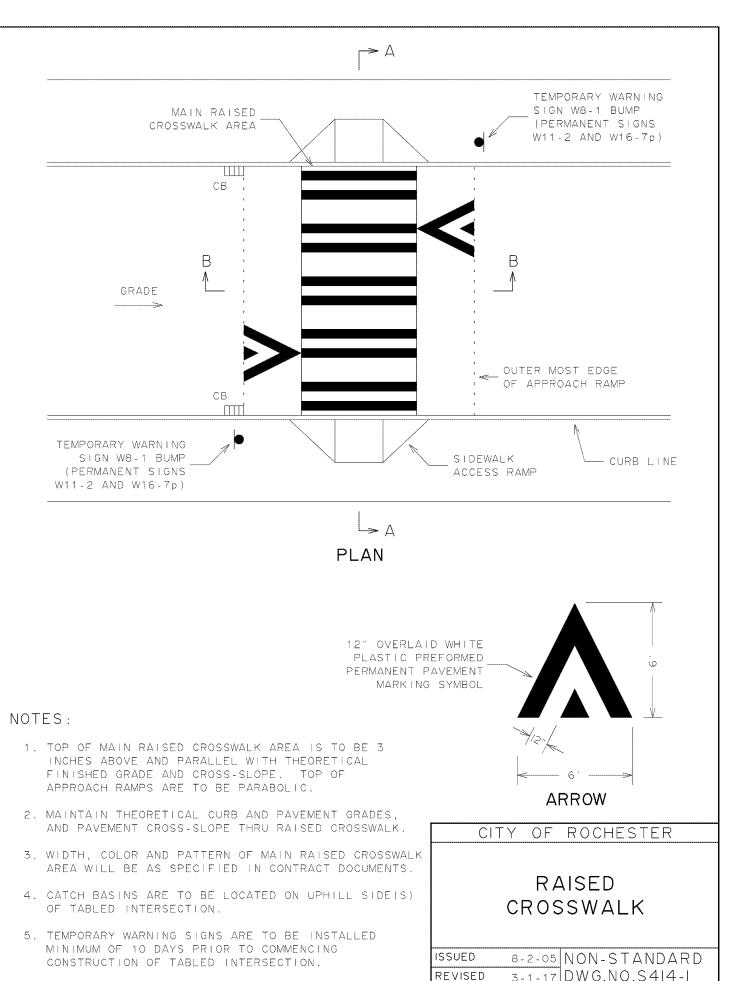
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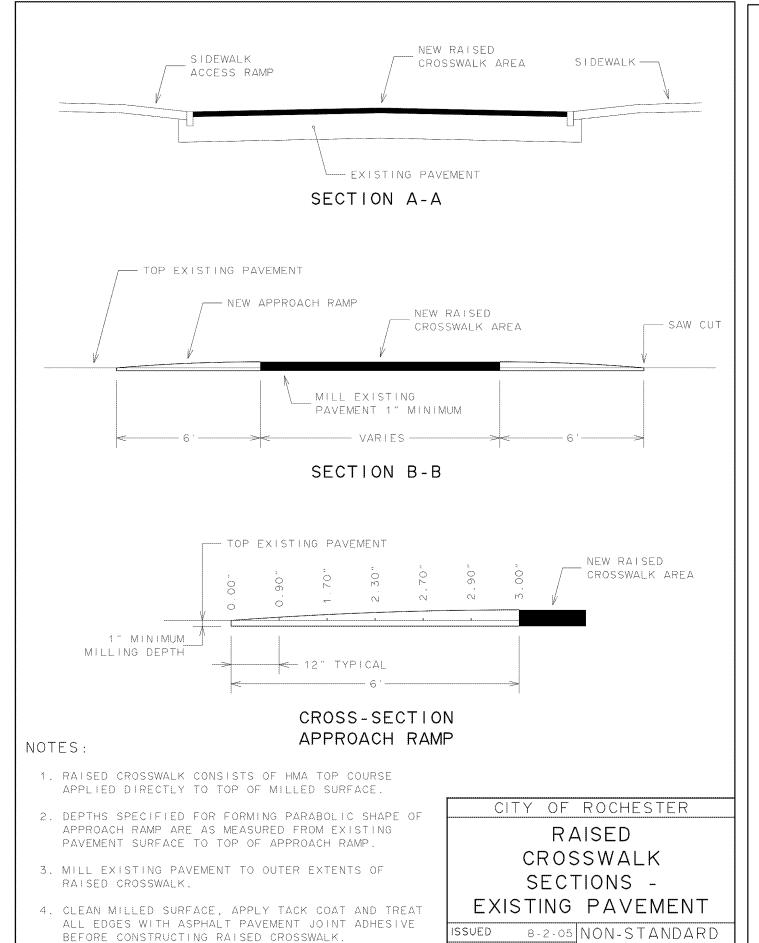
Rochester, NY 14610

C-131.1

CIVIL SITE UTILITY PLAN

May 6, 2020





ADD ALTERNATE 2 - CITY OF ROCHESTER RAISED CROSSWALK EXISTING PAVEMENT
SCALE: NTS

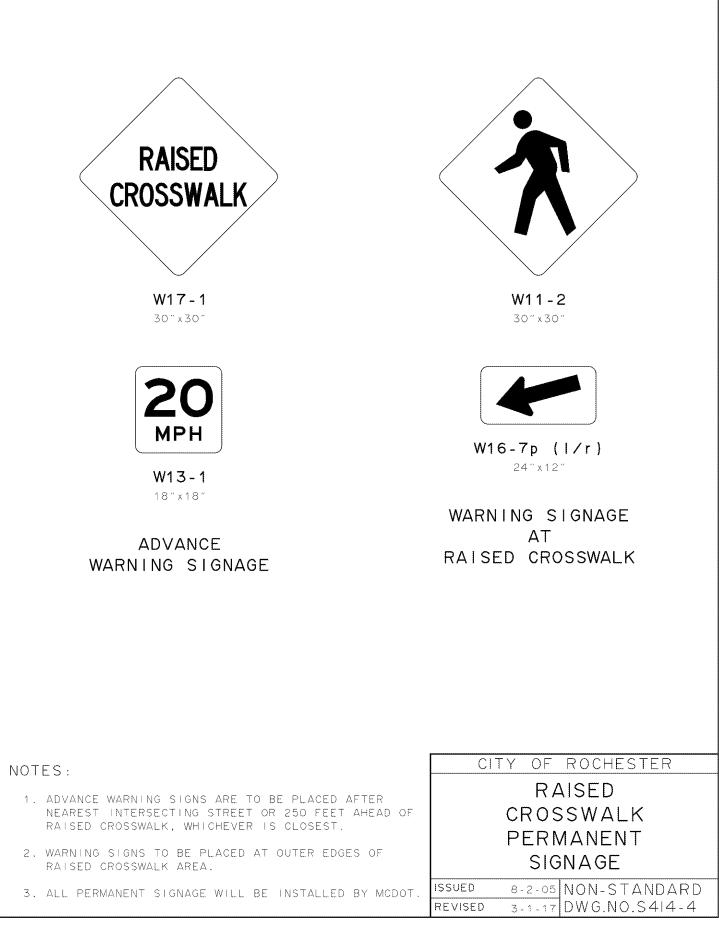
71/4" (0.60') OR PER PLANS

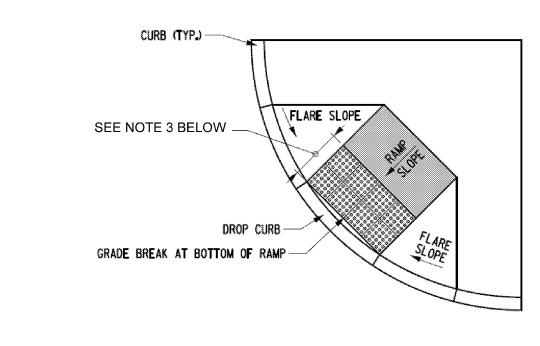
CURB

1/2" RADIUS -

REVISED 3-1-17 DWG.NO.S414-3

ARRIS LINE





#### DETECTABLE WARNING SURFACE PLACEMENT - OPTION :

1. DETECTABLE WARNING SURFACES (DWS) SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS ON PEDESTRIAN ACCESS ROUTES: (NYSDOT STD. SHEET 608-01 NOTE 30)

- A. CURB RAMPS AND BLENDED TRANSITION AT PEDESTRIAN STREET CROSSINGS. B. PEDESTRIAN REFUGE ISLAND (WHERE THE LENGTH OF THE PEDESTRIAN ACCESS ROUTE ACROSS THE REFUGE ISLAND IS GREATER THAN OR EQUAL TO 6'). C. PEDESTRIAN AT-GRADE RAIL CROSSINGS NOT LOCATED WITHIN A STREET OR HIGHWAY.
- 2. DETECTABLE WARNING SURFACES SHALL BE PROVIDED WHERE THE PEDESTRIAN ACCESS ROUTE CROSSES DRIVEWAY WITH SIGNAL, YIELD OR STOP CONTROL. DETECTABLE WARNING SURFACES SHALL NOT BE PROVIDED AT CROSSING OF UNCONTROLLED DRIVEWAYS.(NYSDOT STD. SHEET 608-01 NOTE 31)
- 3. DETECTABLE WARNING FIELDS SHALL EXTEND 24" MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, EXCLUDING ANY FLARED SIDES. (NYSDOT STD. SHEET 608-01 NOTE 33)
- 4. SOME DETECTABLE WARNING PRODUCTS REQUIRE A CONCRETE BORDER FOR PROPER INSTALLATION. IF REQUIRED, THE BORDER SHALL NOT EXCEED 2". WHERE THE BACK OF THE CURB EDGE IS TOOLED TO PROVIDE RADIUS, THE BORDER DIMENSION SHALL BE MEASURED FROM THE INSIDE EDGE OF THE CURB RADIUS. BORDERS CANNOT BE INCLUDED AS PART OF THE 24" MINIMUM DIMENSIONS DESCRIBE IN NOTE 3 ABOVE.(NYSDOT STD. SHEET 608-01 NOTE 34)
- 5. WHERE CURB IS NOT USED, THE EDGE OF PAVEMENT SHALL BE SUBSTITUTED FOR THE BACK OF CURB FOR PLACEMENT OF DETECTABLE WARNINGS. (NYSDOT STD. SHEET 608-01 NOTE 35)
- 6. ON SLOPES OF 5% OR GREATER, THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE LOWEST GRADE BREAK ON THE RAMP RUN. WHERE DOMES ARE ARRAYED RADIALLY, THEY MAY DIFFER IN DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON SHEET 2 OF 12 OF 608-1 NYSDOT STANDARD SHEETS. DOME ALIGNMENT THAT IS PERPENDICULAR OR RADIAL TO THE LOWER GRADE BREAK IS NOT REQUIRED ON SLOPES OF LESS THAN 5%. (NYSDOT STD. SHEET 608-01 NOTE 36)
- 7. THE DETECTABLE WARNING FIELD SHALL BE THE COLOR SPECIFIED IN THE CONTRACT DOCUMENTS OR MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT GUTTER, STREET OR HIGHWAY, OR PEDESTRIAN ROUTE SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. (NYSDOT STD. SHEET 608-01 NOTE 37)

11/2" 9.5 F2 TOP COURSE HMA,

80 SERIES COMPACTION

2" 19 F9 BINDER COURSE HMA,

80 SERIES COMPACTION

- 8. REFER TO NYSDOT STANDARD SHEET 608-01 FOR ADDITIONAL INFORMATION.
- \* THIS DETAIL APPLIES FOR BOTH ADD ALTERNATE 2 AND BASE BID.



# **BUMP** W8 - 1

30" x 30"

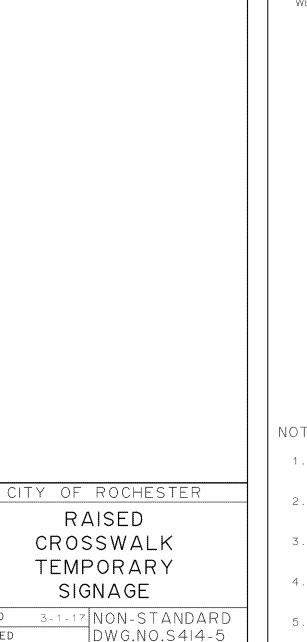
TEMPORARY SIGNAGE IS TO BE PROVIDED ON EACH SIDE

OF STREET AND MOUNTED ON TEMPORARY SIGN SUPPORT

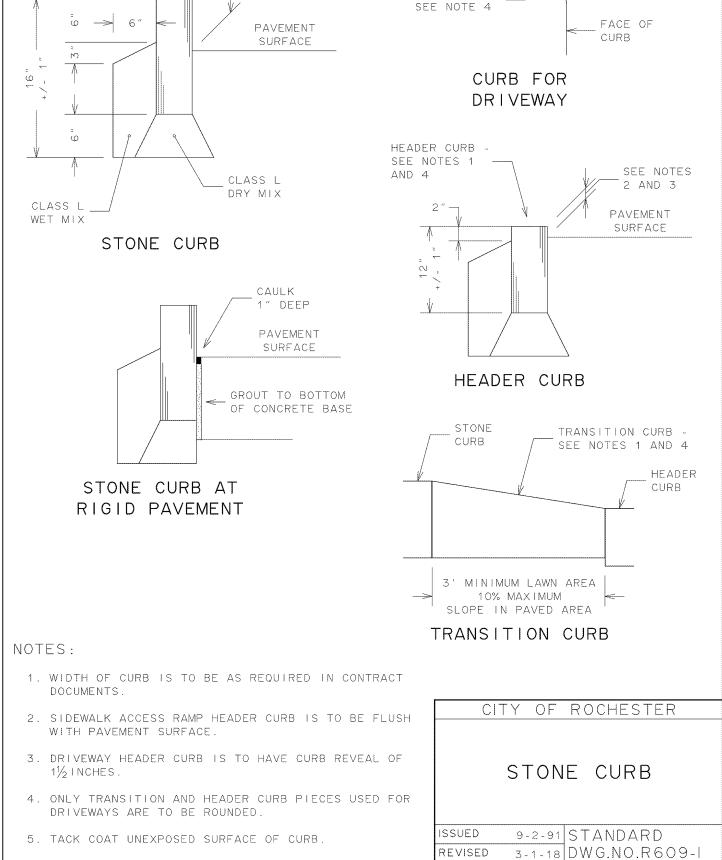
2. TEMPORARY SIGNAGE AND SUPPORT TO BE MAINTAINED

UNTIL PERMANENT SIGNAGE IS INSTALLED BY MCDOT.

ADD ALTERNATE 2 - CITY OF ROCHESTER RAISED CROSSWALK - PLAN

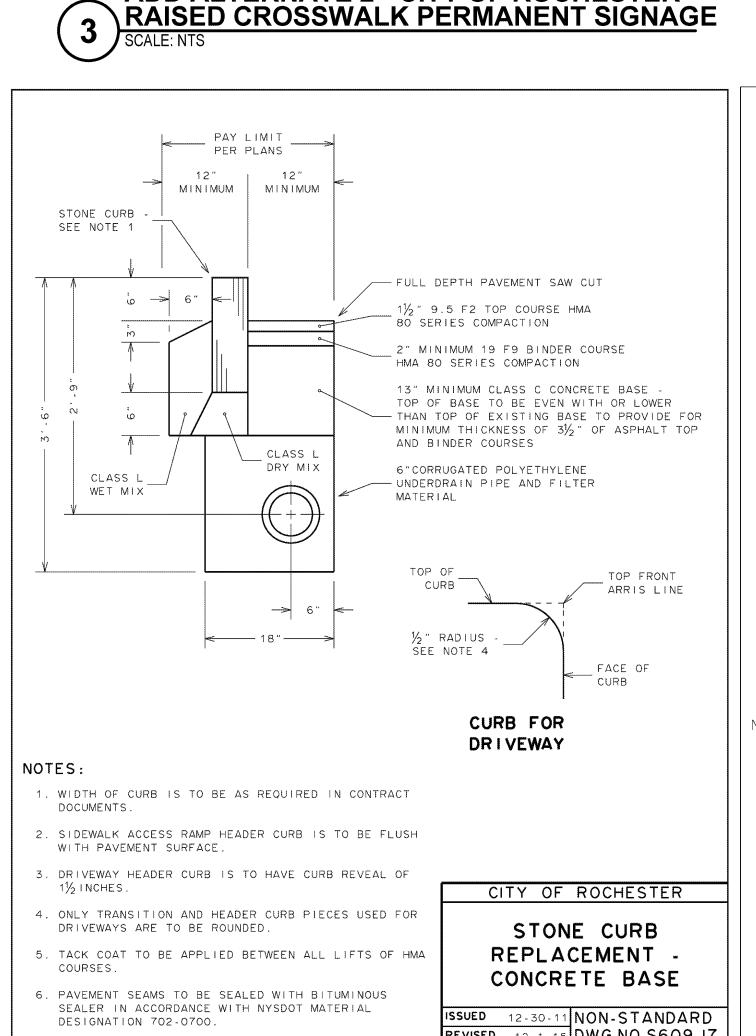


SEE NOTE 1

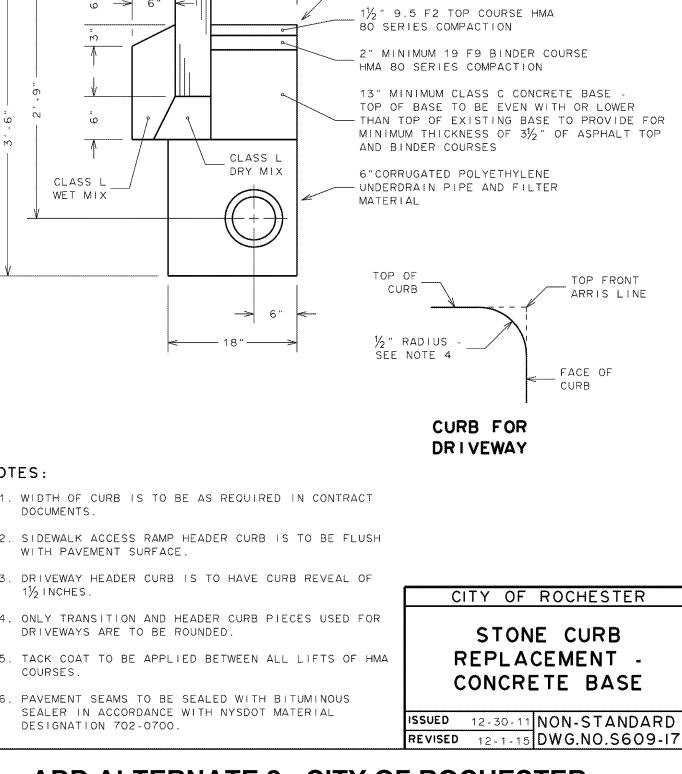


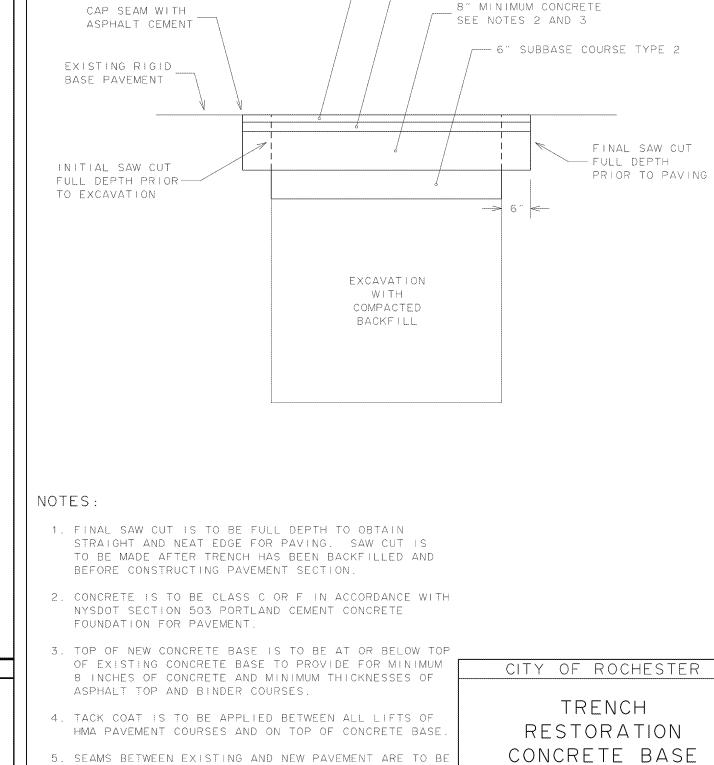
**CITY OF ROCHESTER** 

6 SCALE MITO



**ADD ALTERNATE 2 - CITY OF ROCHESTER** 





SEALED WITH AN ASPHALT CEMENT (FILLER) THAT IS IN ACCORDANCE WITH NYSDOT MATERIAL DESIGNATION

CITY OF ROCHESTER TRENCH RESTORATION CONCRETE BASE

SUED 9-2-91 STANDARD REVISED 2-8-13 DWG.NO.R206-2

**ADD ALTERNATE 2 - CITY OF ROCHESTER RAISED CROSSWALK TEMPORARY SIGNAGE** 

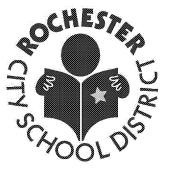
SUED

REVISED

**ADD ALTERNATE 2 - CITY OF ROCHESTER** STONE CURB REPLACEMENT CONCRETE BASE

**ADD ALTERNATE 2 - CITY OF ROCHESTER** TRENCH RESTORATION

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HN Checked By: KJW Project Manager: KJW

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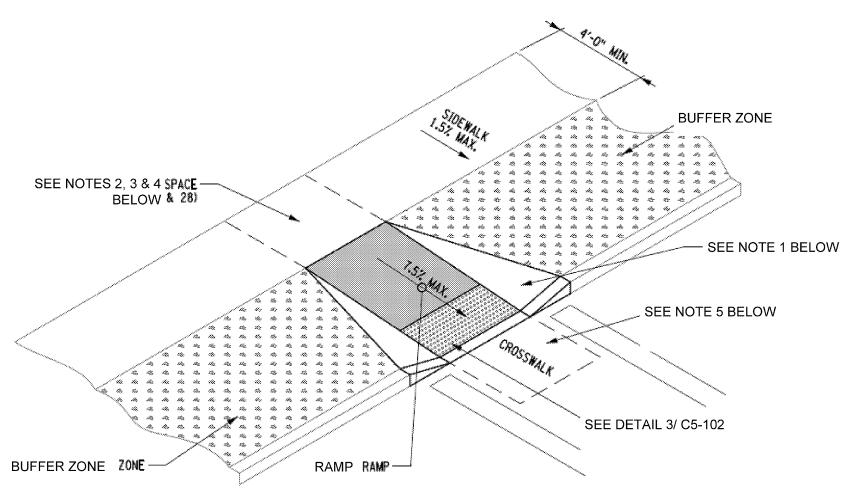
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C-500.1

CIVIL SITE DETAILS

May 6, 2020

\* THIS DETAIL APPLIES FOR BOTH ADD ALTERNATE 2 AND BASE BID. DOWEL DETAIL AT EXISTING WALK



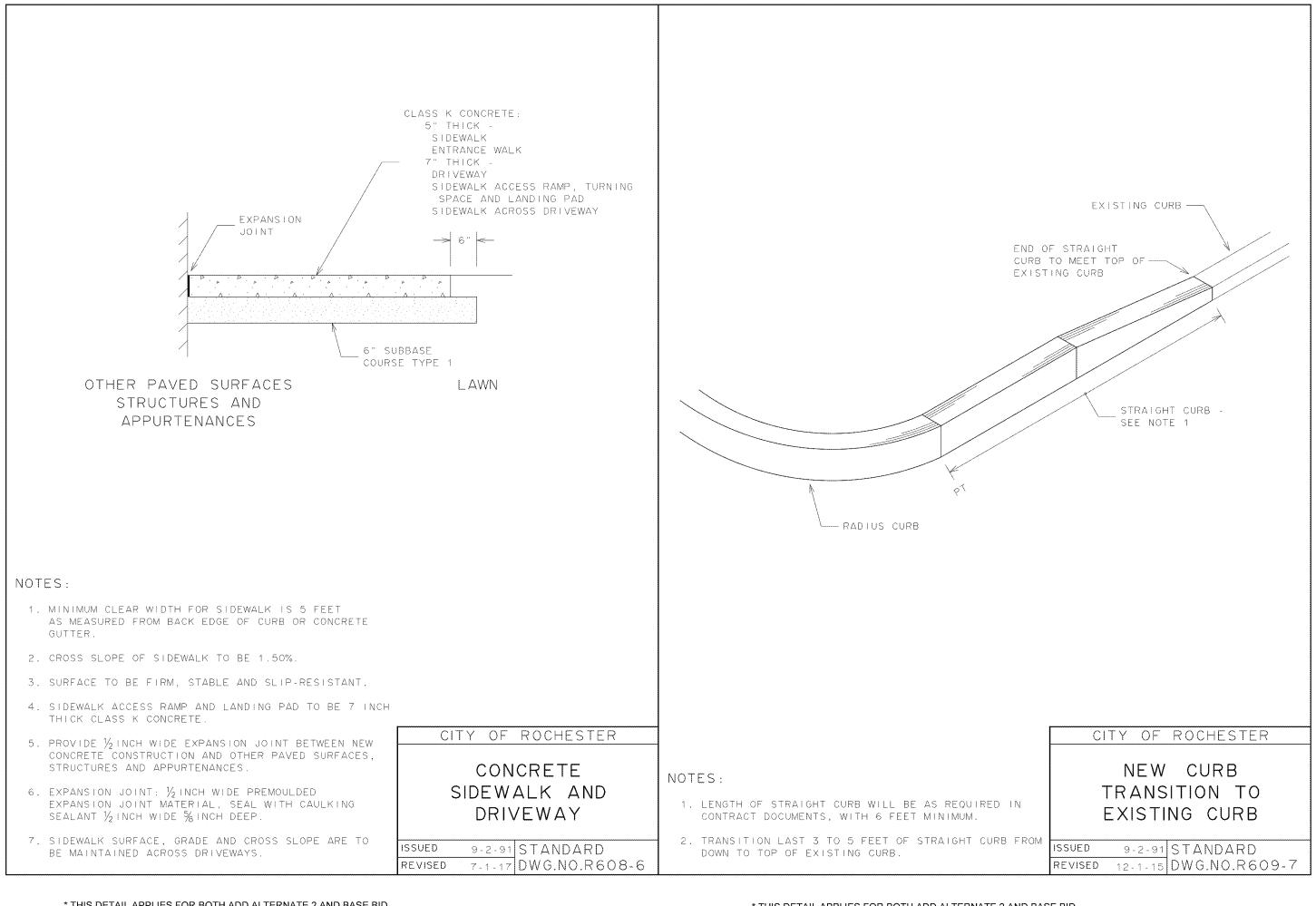
# CURB RAMP CONFIGURATION: TYPE 11 MID BLOCK CROSSING OR T INTERSECTION

#### NOTES:

- 1. RAMP SIDE OPTION A IS SELECTED BASED ON DETAILED ON SHEET 3 OF 12 IN NYSDOT STANDARD SHEETS 608-1. WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP, FLARED SIDES SHALL BE INSTALLED WITH A MAXIMUM SLOPE OF 9.5% FOR DESIGN AND LAYOUT, AND 10% MAXIMUM FOR WORK ACCEPTANCE. A PEDESTRIAN CIRCULATION PATH IS ASSUMED TO CROSS THE CURB RAMP WHEN AREA ADJACENT TO THE RAMP IS PAVED AND FREE OF VERTICAL OBSTRUCTIONS THAT WOULD PREVENT PEDESTRIAN PASSAGE. THERE IS NO MAXIMUM FLARE SLOPE FOR A RAMP THAT IS NOT CROSSED BY A PEDESTRIAN CIRCULATION PATH. (NOTE 23 ON NYSDOT STANDARD SHEET 608-01)
- 2. WHERE A CHANGE IN DIRECTION IS REQUIRED TO UTILIZE A CURB RAMP, A TURNING SPACE SHALL BE PROVIDED AT THE BASE OR THE TOP OF CURB RAMP, AS APPLICABLE. TURNING SPACES SHALL BE PERMITTED TO OVERLAP CLEAR SPACES. (NOTE 26 ON
- 3. WHERE THERE ARE NO VERTICAL CONSTRAINTS AT THE BACK OF SIDEWALKS, (E.G., VERTICAL CURBS, BUILDINGS, FENCE) THE TURNING SPACE DIMENSIONS SHALL BE 4'-0" X 4'-0" MINIMUM. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF SIDEWALK, THE TURNING SPACE SHALL BE 4'-0" X 5'-0" MINIMUM. THE 5'-0" DIMENSION SHALL BE IN THE DIRECTION OF THE RAMP RUN. (NOTE 27 ON NYSDOT STANDARD SHEET 608-01)
- 4. TURNING SPACES SHALL NOT BE DESIGNED WITH A SLOPE GREATER THAN 1.5% IN ANY DIRECTION, WHILE PROVIDING POSITIVE DRAINAGE. THE MAXIMUM SLOPE FOR WORK ACCEPTANCE IS 2.0%. (NOTE 28 ON NYSDOT STANDARD SHEET 608-01)
- 5. BELOW THE BOTTOM GRADE BREAK OF A CURB RAMP, A CLEAR SPACE OF 4'-0" X 4'-0" MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN CROSSWALK, AND OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE. THE CLEAR SPACE MAY OVERLAP TURNING SPACES, DETECTABLE WARNING SURFACES, AND DROP CURBS. (NOTE 29 ON NYSDOT STANDARD SHEET 608-01)
- 6. REFER TO NYSDOT STANDARD SHEET 608-01 FOR ADDITIONAL INFORMATION.
- \* THIS DETAIL APPLIES FOR BOTH ADD ALTERNATE 2 AND BASE BID.

NYSDOT SIDEWALK ACCESS RAMP TYPE 11

MID BLOCK CROSSING OR T INTERSECTION



\* THIS DETAIL APPLIES FOR BOTH ADD ALTERNATE 2 AND BASE BID.

CITY OF ROCHESTER CONCRETE SIDEWALK

\* THIS DETAIL APPLIES FOR BOTH ADD ALTERNATE 2 AND BASE BID.



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WATTS

ARCHITECTURE & ENGINEERING

Drawn By: KJW Checked By:

Project Manager: KJW

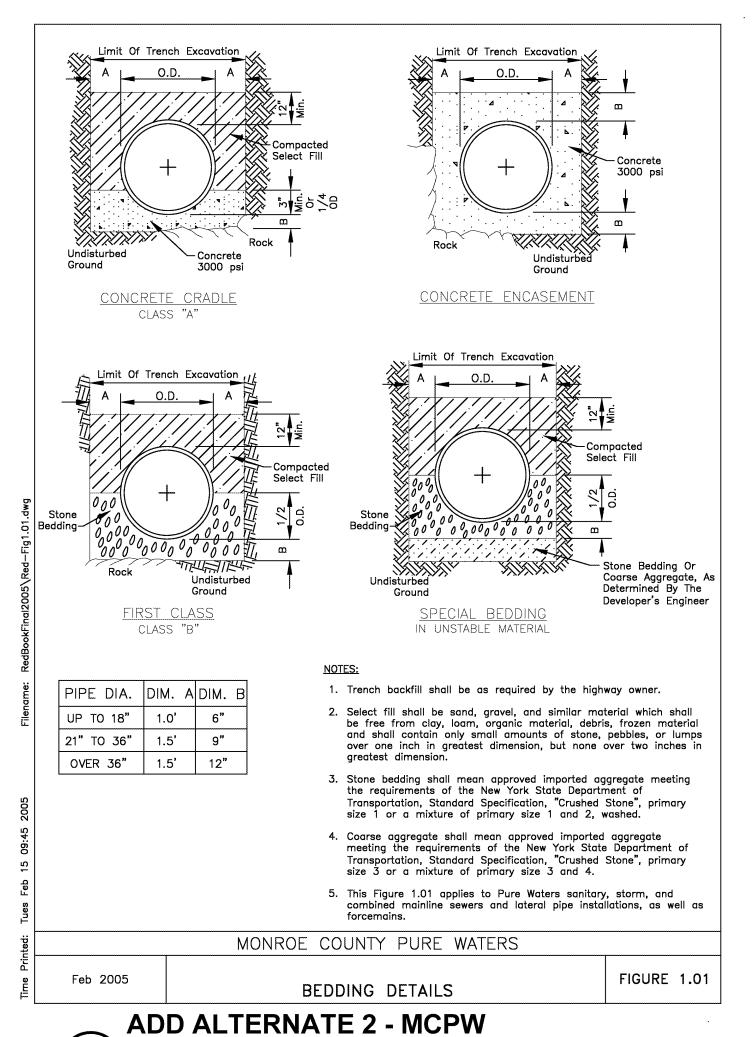
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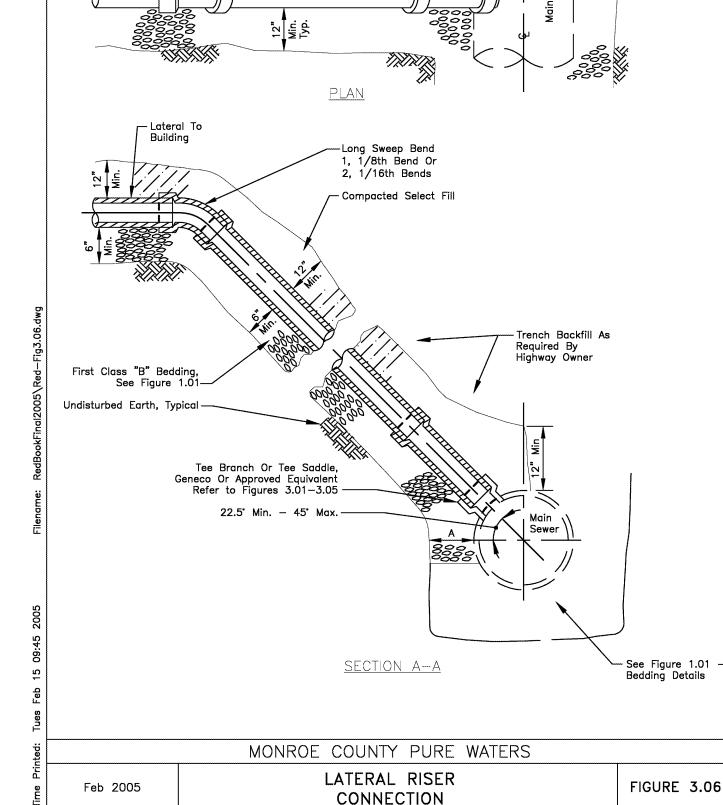
John Walton Spencer School 16

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**Rochester Joint Schools Construction Board** 70 Carlson Street, Suite 200 Rochester, NY 14610

CIVIL SITE DETAILS



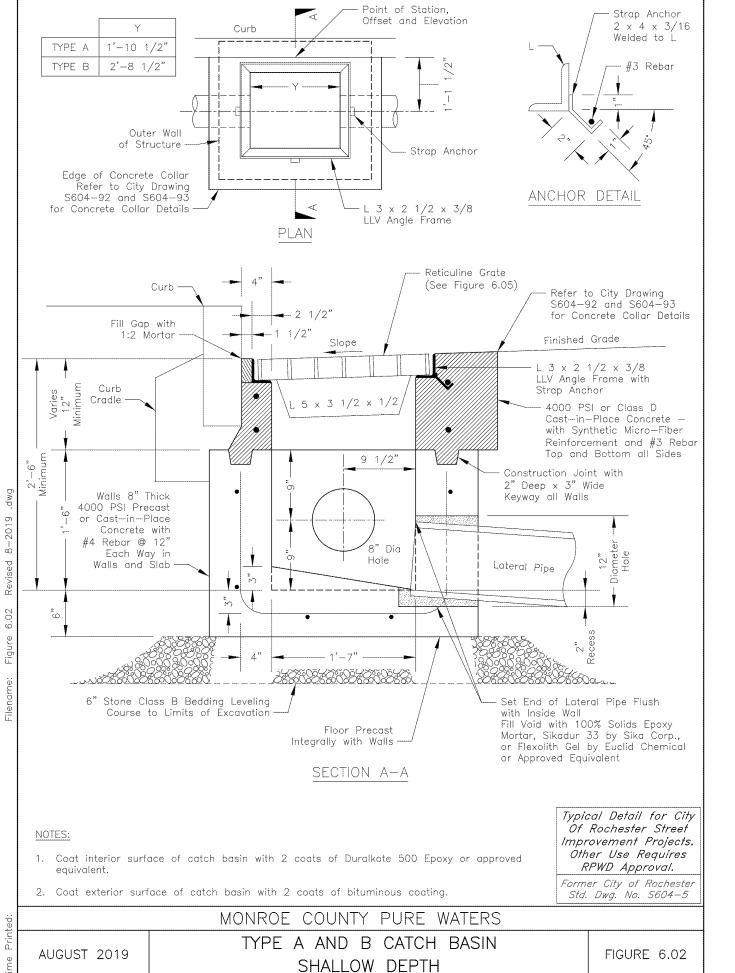


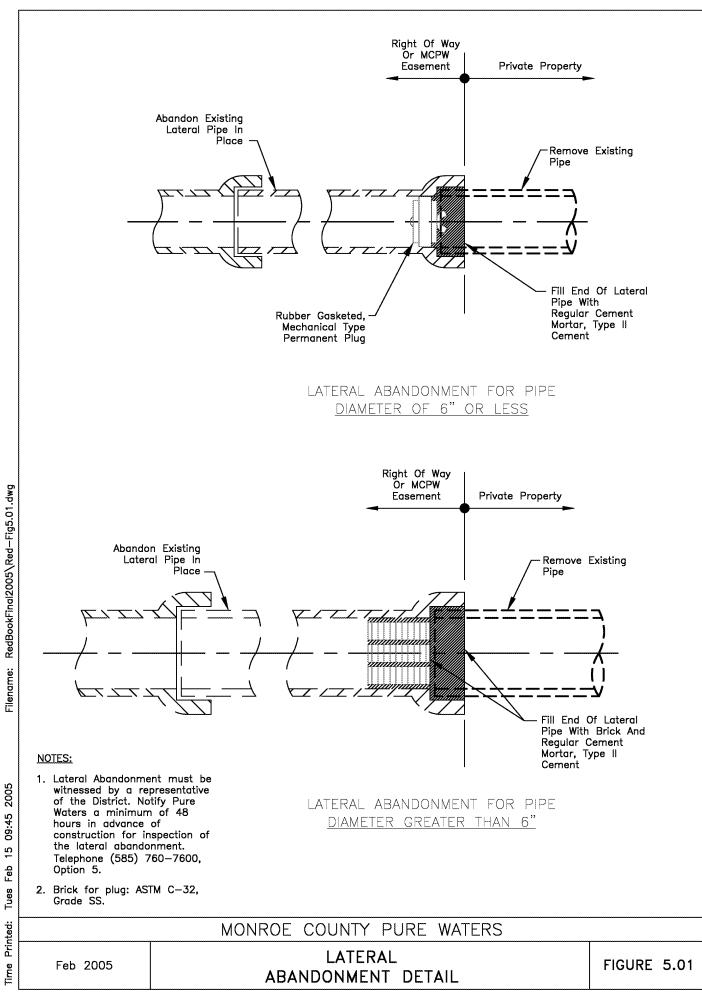
**ADD ALTERNATE 2 - MCPW** 

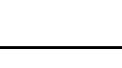
LATERAL RISER CONNECTION

- PVC SDR 21

Lateral Pipe -

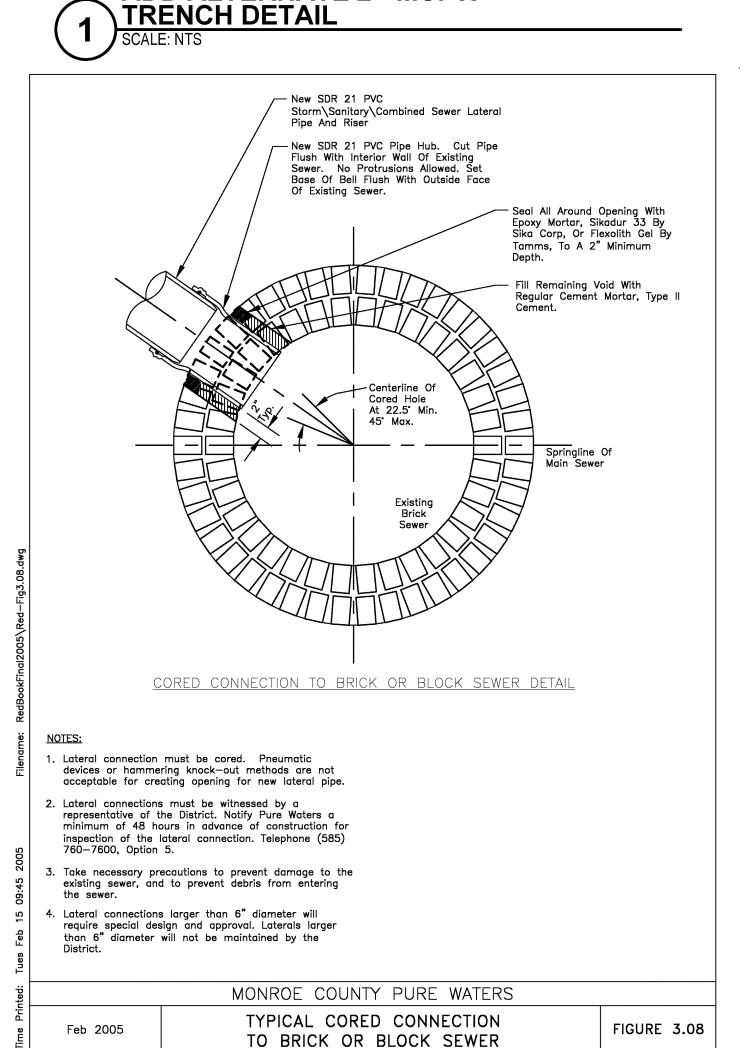






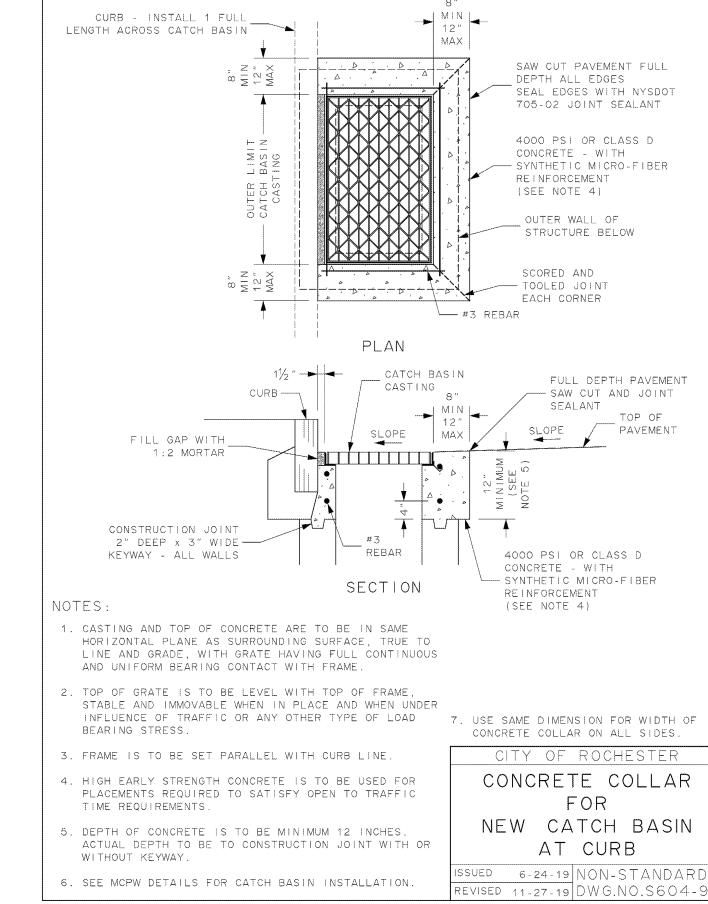
**ADD ALTERNATE 2 - MCPW** CATCH BASIN - TYPE "B"

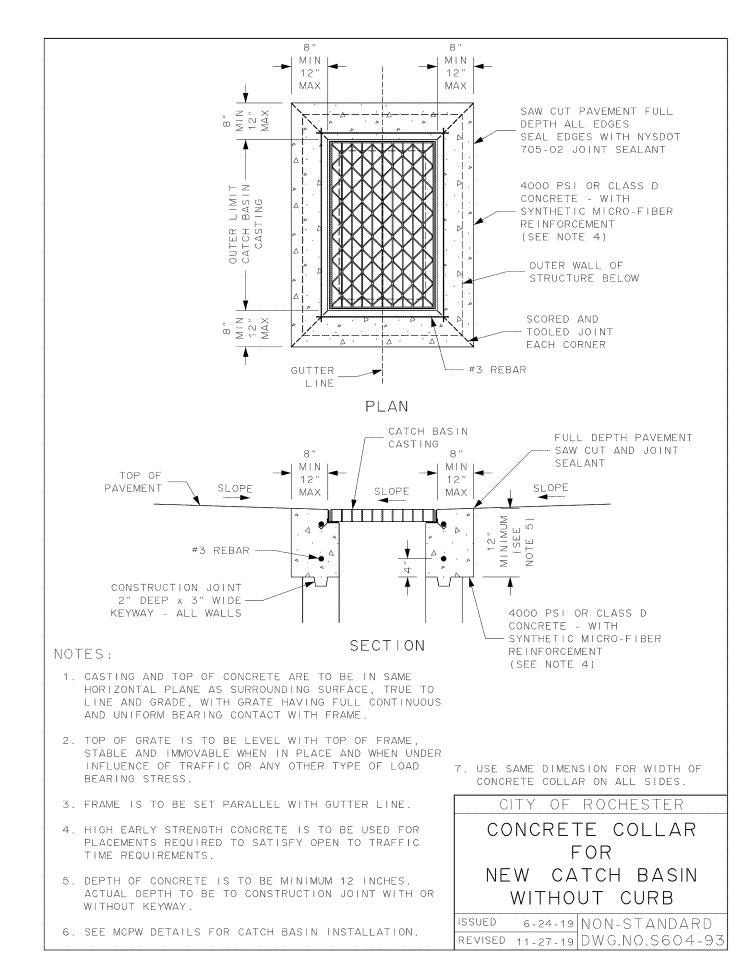
**ADD ALTERNATE 2 - MCPW** LATERAL ABANDONMENT DETAIL

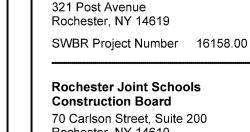


TYPICAL CORED CONNECTION TO BRICK SEWER

**ADD ALTERNATE 2 - MCPW** 







Rochester, NY 14610

C-502.1

May 6, 2020

ADD ALTERNATE 2 - CONCRETE COLLAR FOR NEW CATCH BASIN AT CURB

ADD ALTERNATE 2 - CONCRETE COLLAR FOR NEW CATCH BASIN WITHOUT CURB

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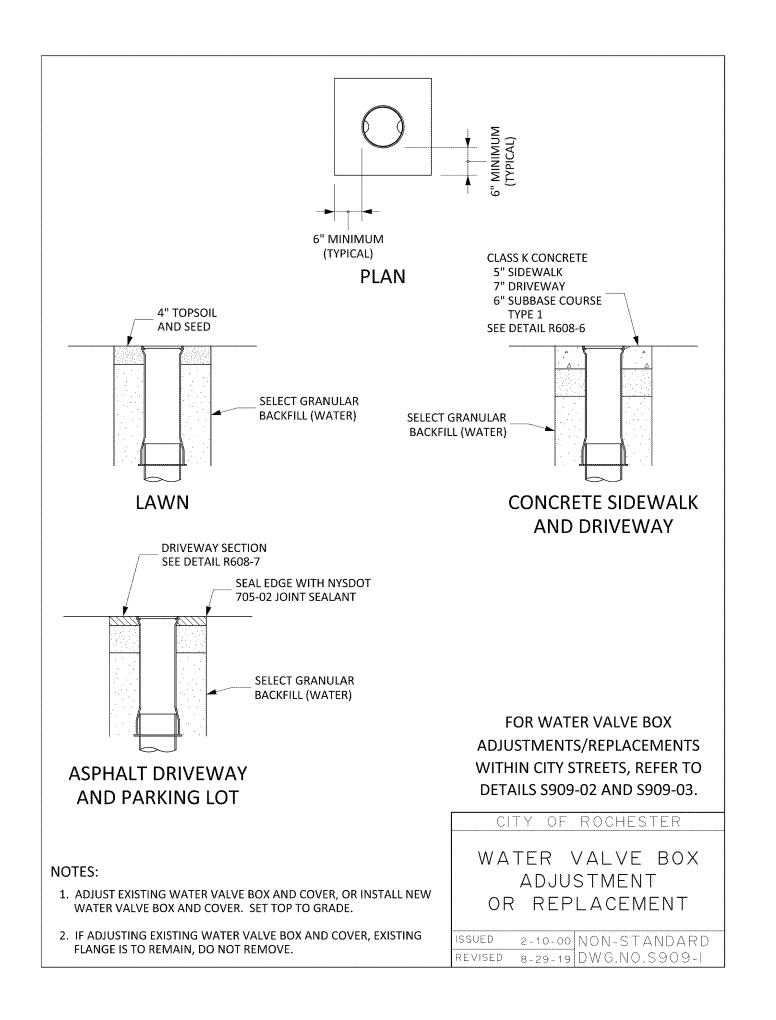
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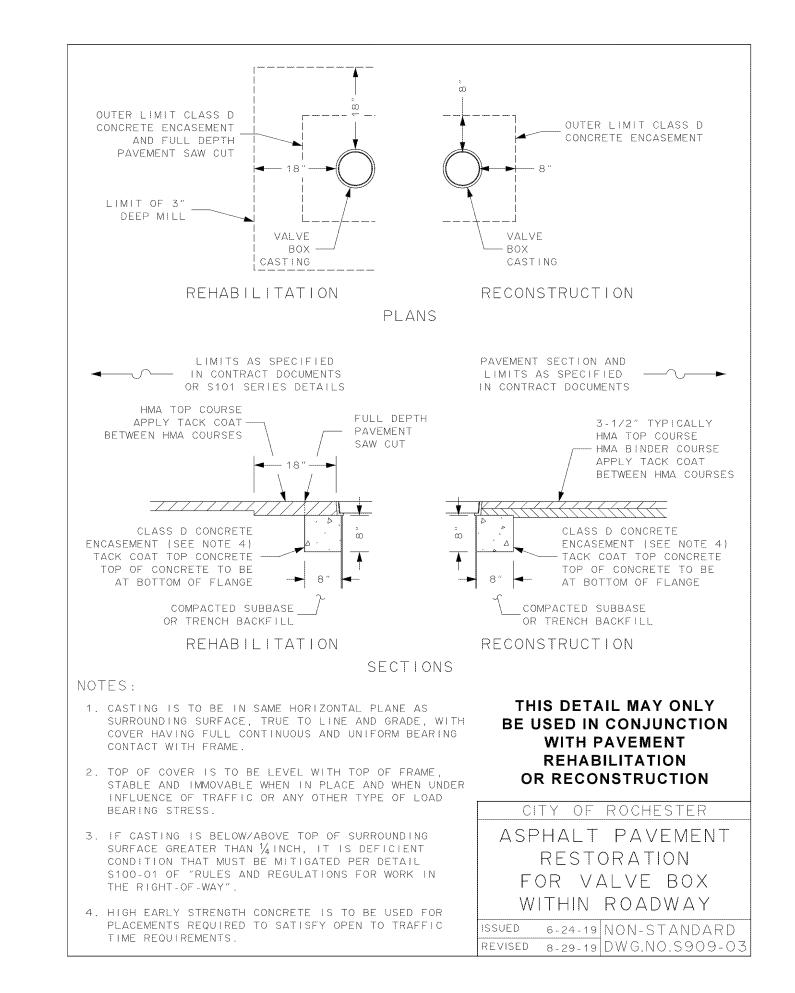
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CIVIL UTILITY DETAILS





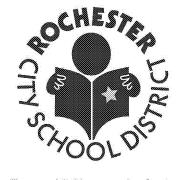
ADD ALTERNATE 2 - WATER VALVE BOX ADJUSTMENT OR REPLACEMENT

ADD ALTERNATE 2 - ASPHALT PAVEMENT RESTORATION AT WATER VALVE BOX WITHIN ROADWAY

SCALE: NTS

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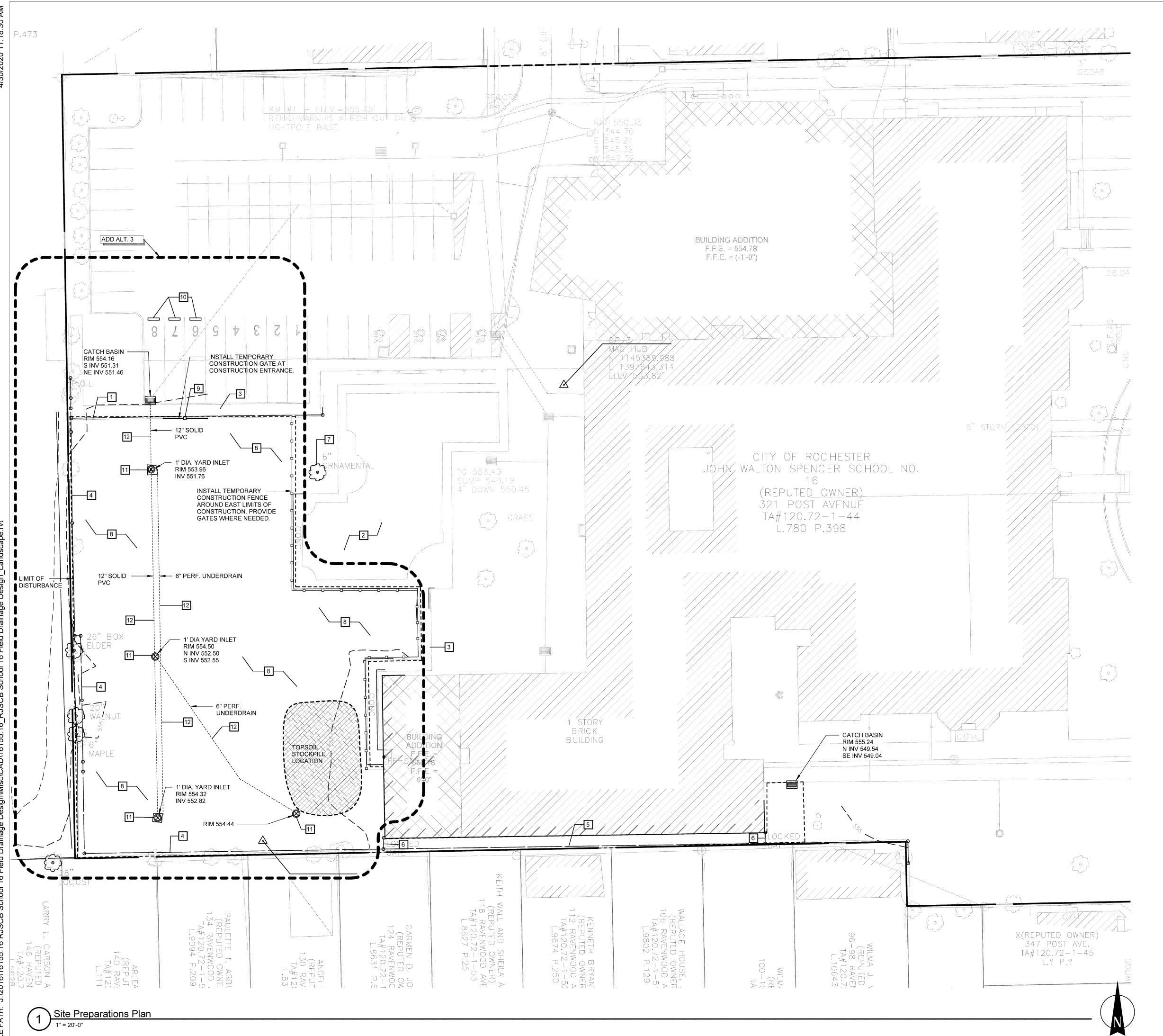
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C-503.1

May 6, 2020

CIVIL UTILITY DETAILS



# SITE PREPARATIONS NOTES

LANDSCAPE ARCHITECT.

1. ALL REQUIRED DEMOLITION PERMITS MUST BE OBTAINED FROM ALL REQUIRED AGENCIES PRIOR TO COMMENCEMENT OF WORK.

2. THE UNDERGROUND STRUCTURES AND UTILITIES SHOWN ON THIS MAP HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORD MAPS, AND AS BUILT DRAWING INFORMATION PROVIDED BY THE CONTRACTOR.

AS-BUILT DRAWING INFORMATION PROVIDED BY THE CONTRACTOR.
THEY ARE NOT CERTIFIED TO THE ACCURACY OF THEIR LOCATION
AND/OR COMPLETENESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO
VERIFY THE LOCATION AND EXTENT OF ALL UNDERGROUND
STRUCTURES AND UTILITIES PRIOR TO ANY DIGGING OR CONSTRUCTION
ACTIVITIES IN THEIR VICINITY.

3. THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK (1-800-962-7962) FOR A UTILITY STAKEOUT 48 HOURS IN ADVANCE OF COMMENCING WORK. STAKEOUT OF PRIVATE UTILITIES SHALL BE COORDINATED WITH THE OWNER.

4. PROPER FENCING OR PUBLIC PROTECTION DEVICES MUST BE CONSTRUCTED AND MAINTAINED AROUND THE PERIMETER OF THE SITE AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION PHASES.
5. CONTRACTOR TO CORDON OFF WORK LIMITS APPROPRIATELY AND KEEP

AREAS OUTSIDE OF WORK LIMITS CLEAR AND CLEAN OF CONSTRUCTION DEBRIS DURING DEMOLITION AND CONSTRUCTION PHASES.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTROL DUST, DIRT, AND DEBRIS DURING DEMOLITION AND CONSTRUCTION PHASES.

7. CONTRACTOR SHALL FOLLOW ALL LOCAL, STATE, AND FEDERAL REGULATIONS IN DISPOSING OF DEMOLISHED MATERIALS REMOVED FROM THIS SITE. ALL MATERIAL NOTED TO BE REMOVED SHALL BE DISPOSED OFF-SITE.

8. PROTECT EXISTING TREES AS NOTED ON THE DRAWINGS PER DETAILS AND AS DIRECTED BY THE OWNER.

9. TREE PROTECTION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CLEARING OR CONSTRUCTION.

10. REPAIR ANY MATERIAL DAMAGED DURING CONSTRUCTION WITH THE

SAME MATERIAL AS ADJACENT SURFACE AS DIRECTED BY THE

	SITE PREPARATIONS KEY
NO.	DESCRIPTION
1	PRESERVE AND PROTECT DECORATIVE ALUMINUM FENCE IN PLACE
2	PRESERVE AND PROTECT PLAYGROUND IN PLACE
3	PRESERVE AND PROTECT CONCRETE SIDEWALK IN PLACE.
4	PRESERVE AND PROTECT CHAIN LINK FENCE IN PLACE.
5	REMOVE AND SALVAGE CHAIN LINK FENCE TO INSTALL CONCRETE GUTTER SYSTEM. RE-SET IN EXISTING LOCATIONS AT COMPLETION OF PROJECT.
6	REMOVE AND SALVAGE CHAIN LINK FENCE GATE TO INSTALL CONCRETE GUTTER SYSTEM. RE-SET IN EXISTING LOCATIONS AT COMPLETION OF PROJECT.
7	TREE TO REMAIN, PROTECT IN PLACE
8	STRIP TOP SOIL TO DEPTH OF 6" (MIN.) AND STOCKPILE FOR REUSE ON SITE IN AN AREA AS SHOWN ON PLANS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. IMMEDIATELY SURROUND WITH SILT FENCE. EXCESS TOPSOIL NOT UTILIZED FOR RESTORATION SHALL BE HAULED OFF SITE.
9	REMOVE AND SALVAGE 2 FENCE PANELS & 1 POST TO CREATE TEMPORARY CONSTRUCTION ENTRANCE. RE-SET IN EXISTING LOCATIONS AT COMPLETION OF PROJECT.
10	INSTALL TEMPORARY 'NO PARKING - CONSTRUCTION ZONE' SIGNS FOR SPOTS '6', '7', & '8'.
11	REMOVE 1' DIA YARD INLET

# SITE PREPARATIONS LEGEND

12 REMOVE PIPE AND DISPOSE FROM SITE

EXISTING TOPSOIL TO BE STRIPPED & STOCKPILED ON SITE.

---- WOR

TEMPORARY CONSTRUCTION FENCE

-- WORK LIMIT LINE

ALTERNATE BOUNDARY

NOTE: ALL ITEMS OUTSIDE OF ALTERNATE BOUNDARY LINES ARE CONSIDERED PART OF BASE-BID.

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Drawn By: MMF
Checked By: DPN

Project Manager: AMS

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Revisions

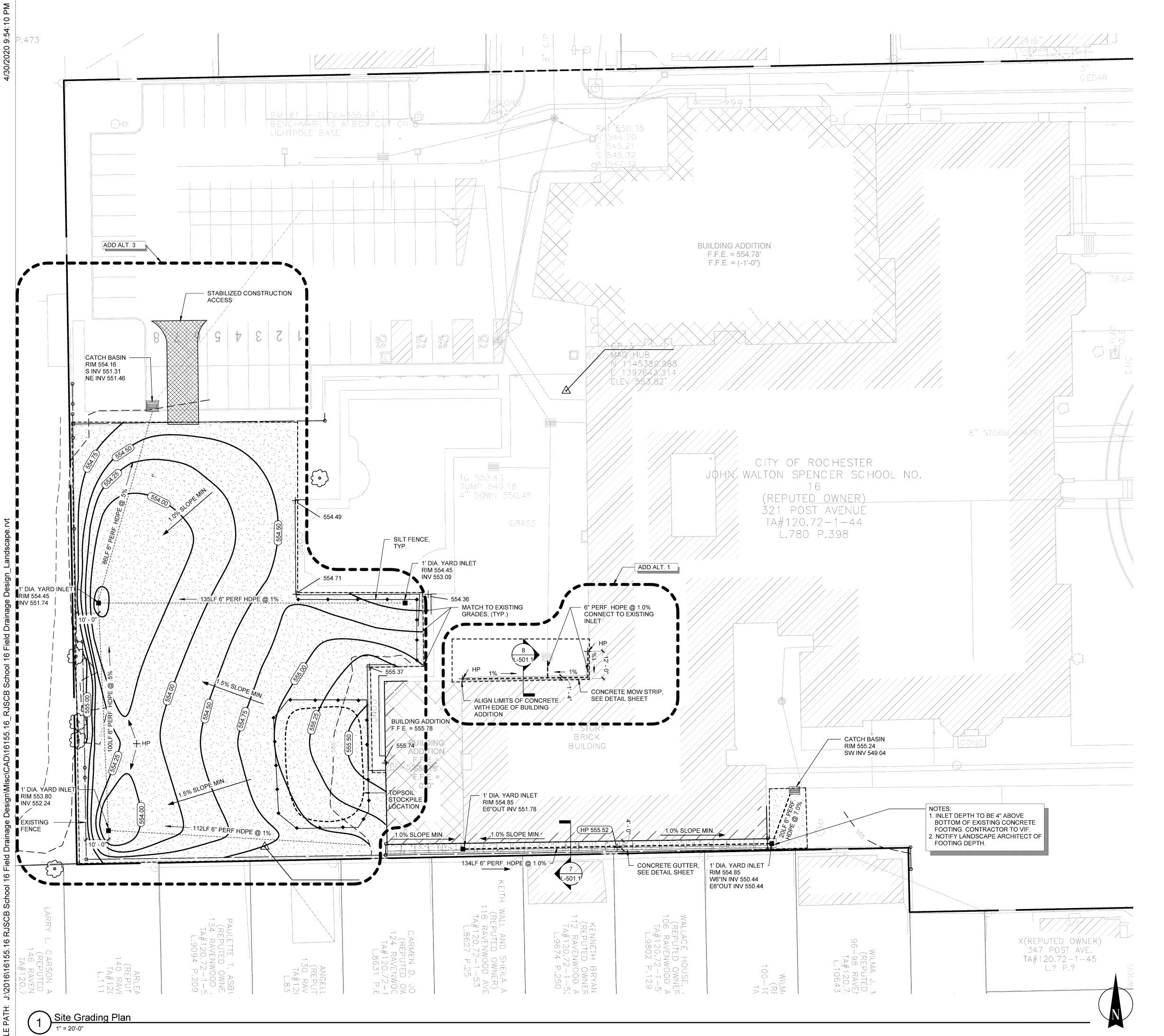
School 16
321 Post Avenue
Rochester, NY 14619
SWBR Project Number 16155.16

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Rochester Joint Schools
Construction Board

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L-100.1
Existing Conditions &
Site Preparation Plan



#### **GRADING NOTES**

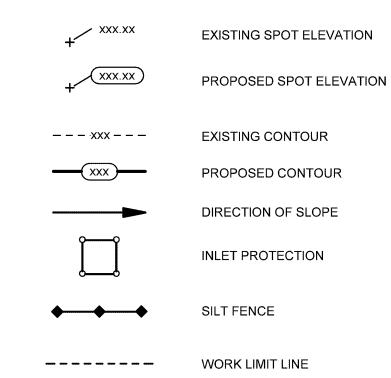
- 1. THE BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WITHIN THE LIMITS OF DISTURBANCE WAS PREPARED BY RAVI ENGINEERING AND DATED JANUARY 8, 2020. ADDITIONAL RECORD DRAWINGS WERE OBTAINED TO SHOW SITE CONTEXT & ADDITIONAL UNDERGROUND UTILITIES.
- 2. EXISTING UTILITIES (LOCATIONS, SIZES AND INVERT ELEVATIONS) SHOWN ON THE PLANS HAVE BEEN PLOTTED FROM FIELD SURVEYS AND RECORD MAPS AND SHALL BE INTERPRETED AS APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXISTING INFORMATION OF UTILITIES.
- 3. TRANSITIONS TO EXISTING CONDITIONS SHALL BE SMOOTH AND UNIFORM WITHOUT ABRUPT CHANGES IN GRADE.

# **EROSION CONTROL / CONSTRUCTION SEQUENCE**

SEQUENCE - THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES IN THE FOLLOWING SEQUENCE UNLESS AUTHORIZED OTHERWISE. REFER TO SPECIFICATIONS FOR EACH SEQUENCE STEP.

- 1. SCHEDULE PRE-CONSTRUCTION MEETING BETWEEN CONTRACTOR, OWNER, & LANDSCAPE ARCHITECT. 2. INSTALL TEMPORARY STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE,
- AND INLET PROTECTION.
- 3. INSTALL TEMPORARY CONSTRUCTION FENCING AND GATES. 4. STRIP TOPSOIL (6" MIN) AND CREATE STABILIZED STOCKPILE ON-SITE.
- 5. BEGIN CONSTRUCTION, INCLUDING UTILITY REMOVALS /INSTALLATIONS, ROUGH GRADING, & CONCRETE GUTTER INSTALLATION. 6. INSTALL INLET / OUTLET PROTECTION IMMEDIATELY UPON INSTALLATION OF
- EACH DRAINAGE INLET OR OUTLET. 7. LANDSCAPE ARCHITECT TO INSPECT SUBGRADE FOR APPROVAL PRIOR TO PLACING SAND.
- 8. PLACE 3" OF SAND AND SPREAD UNIFORM LAYER OVER EXPOSED SUBGRADE.
- 9. ROTOTILL SUBGRADE (12" MIN.) AND MIX SAND LAYER INTO SUBGRADE. LANDSCAPE ARCHITECT TO INSPECT SITE. 10. PERFOM PERC TEST PRIOR TO SPREADING TOPSOIL.
- 11. ADD TOPSOIL AMENDMENTS. MIX APPROXIMATELY HALF THE AMENDED SOIL OVER PREPARED, LOOSENED SUBGRADE ACCORDING TO
- SPECIFICATIONS SECTION 32-91-13 'SOIL PREPARATION'. 12. COMPLETE FINE GRADING. REMOVE AND DISPOSE OF EXCESS SOIL FROM
- SITE, IF ANY. 13. LANDSCAPE ARCHITECT TO INSPECT FINE GRADING FOR APPROVAL PRIOR TO SEEDING. APPLY PERMANENT SEED PER SPECIFICATIONS.
- 14. REMOVE EROSION CONTROL MEASURE'S UPON DIRECTION FROM LANDSCAPE ARCHITECT.

# **GRADING LEGEND**



ALTERNATE BOUNDARY

OF BASE-BID.

NOTE: ALL ITEMS OUTSIDE OF ALTERNATE

**BOUNDARY LINES ARE CONSIDERED PART** 

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Project Manager: AMS

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Revisions

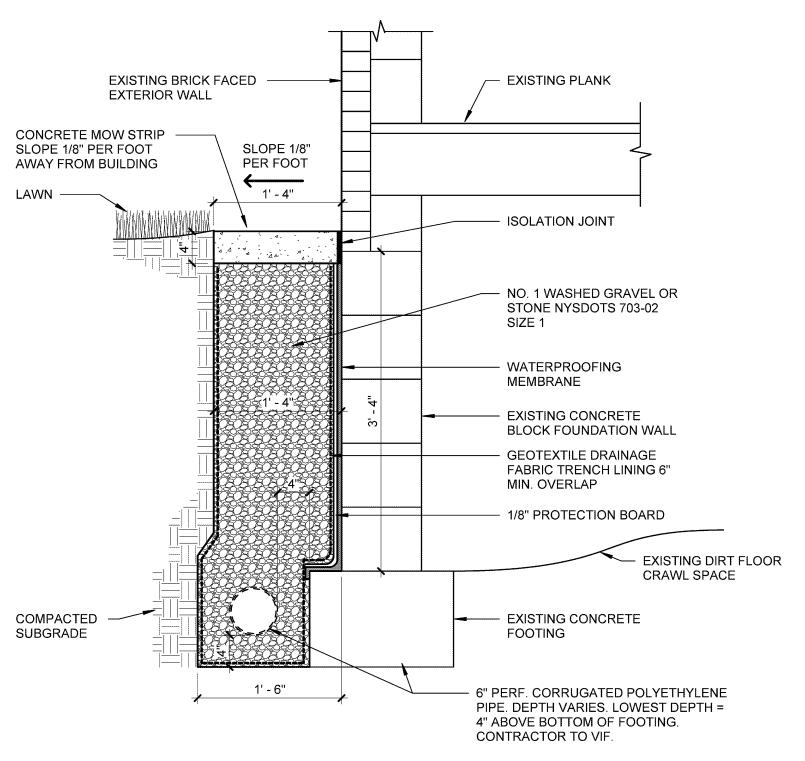
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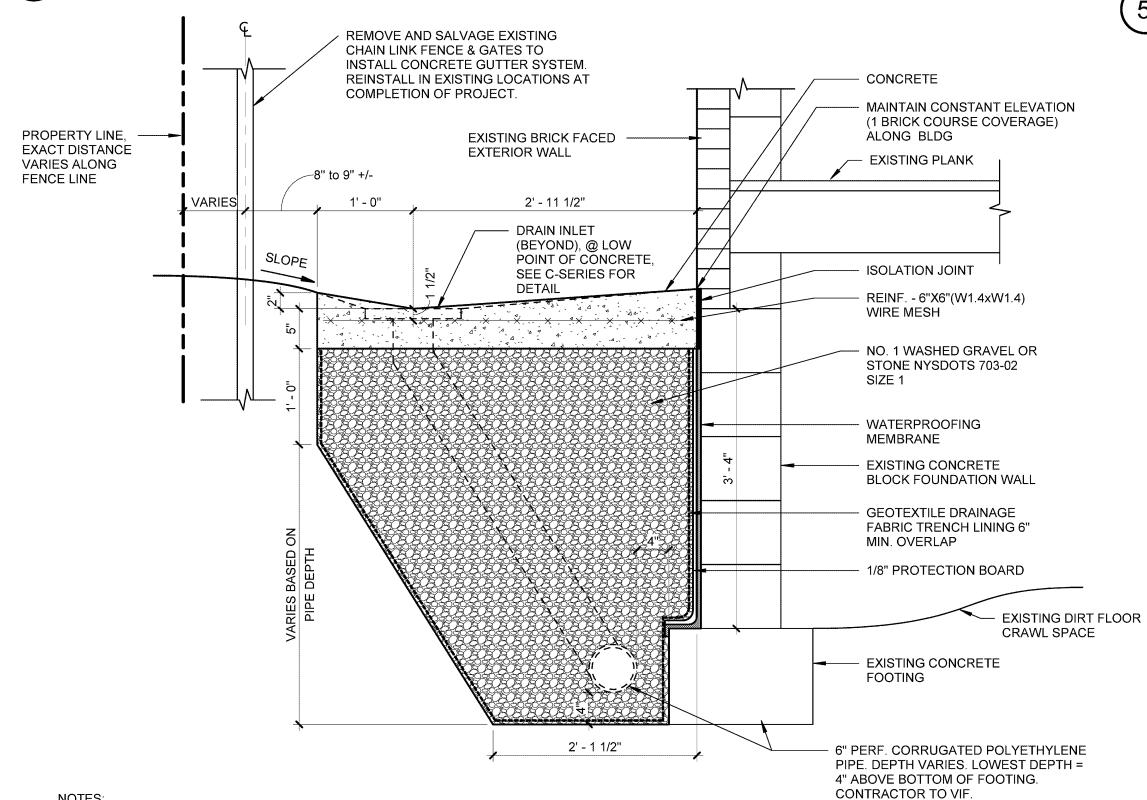
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L-101.1 Site Grading Plan

May 6, 2020

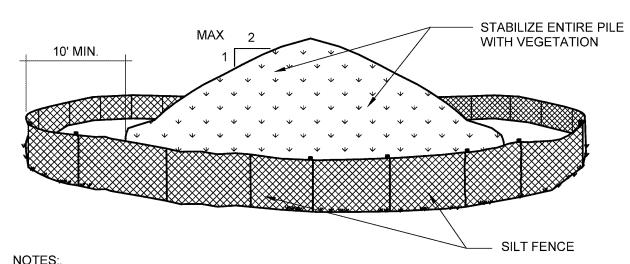


ADD ALTERNATE 1 - PARTIAL FOUNDATION DRAIN & WATERPROOFING



1. CONCRETE TOOLED CONTROL JOINTS - SPACE EQUALLY TO WIDTH OF CONCRETE, 6' MAX. O.C.
2. CONCRETE 1/2" EXPANSION JOINTS - SPACED AT A MAXIMUM OF 20 FEET, AT COLD JOINTS AND AT BEGINNING AND END OF RETURN.
3. CONTRACTOR SHALL STABILIZE EXCAVATION TO PREVENT UNDERMINING NEIGHBORS PROPERTY.

7 CONCRETE GUTTER, FOUNDATION DRAIN & WATERPROOFING

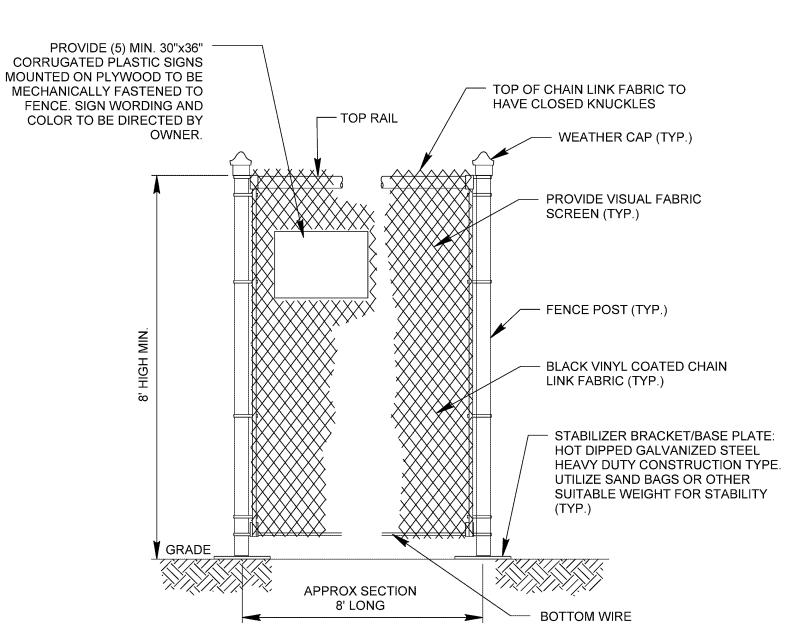


 AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 MAXIUMUM SLOPE OF STOCKPILE SHALL BE 2:1. MAXIMUM HEIGHT SHALL BE 12 FEET.
 EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, INSTALLED PER CORRESPONDING DETAIL, THEN STABILIZED WITH ANNUAL GRAIN (SEED & MULCH)

WITHIN 3 DAYS.

4. A PERIMETER DIKE/SWALE SHALL BE LOCATED UP-SLOPE OF THE TOPSOIL STOCKPILE TO DIVERT STORMWATER AROUND THE STOCKPILE.

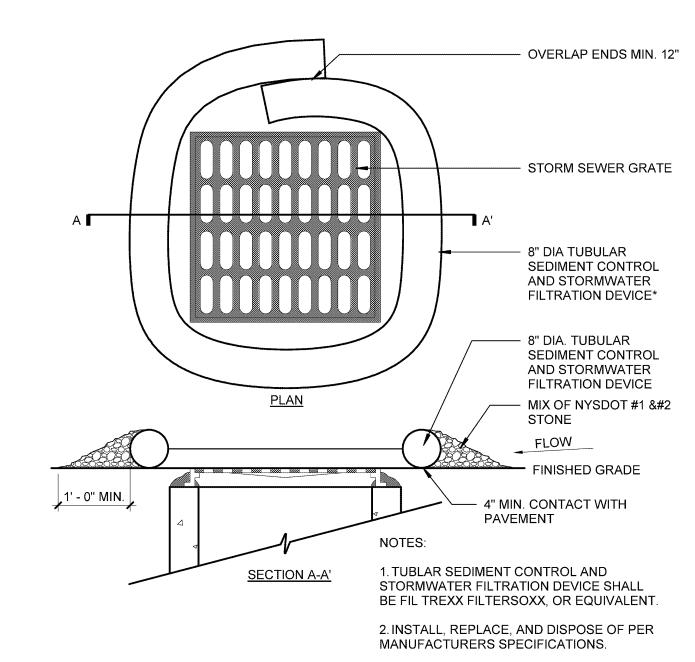
ADD ALTERNATE 3 - STABILIZED SOIL STOCKPILE



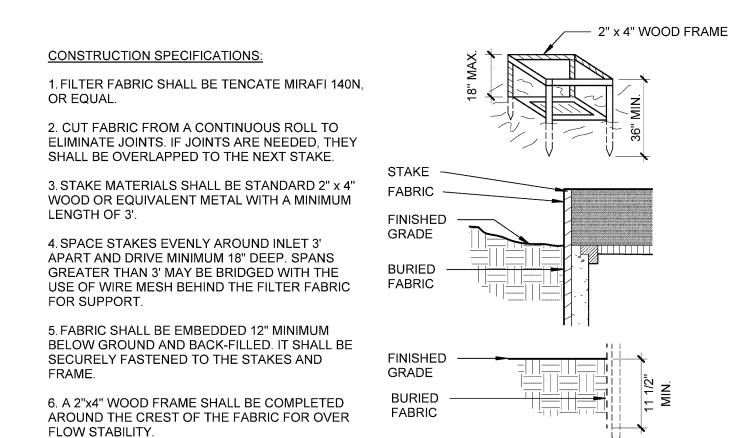
# TEMPORARY FENCE NOTES:

- 1. PROVIDE PORTABLE SELF-STANDING FENCE ALONG PERIMETER OF CONSTRUCTION WORK
- AREA SITES AND STAGING AREA AS SHOWN ON PLANS.
  2. TEMPORARY FENCE SHALL BE FREE STANDING CONSTRUCTION FENCE, PANELIZED OF
- ADD ALTERNATE 3 PORTABLE TEMPORARY FENCE DETAIL

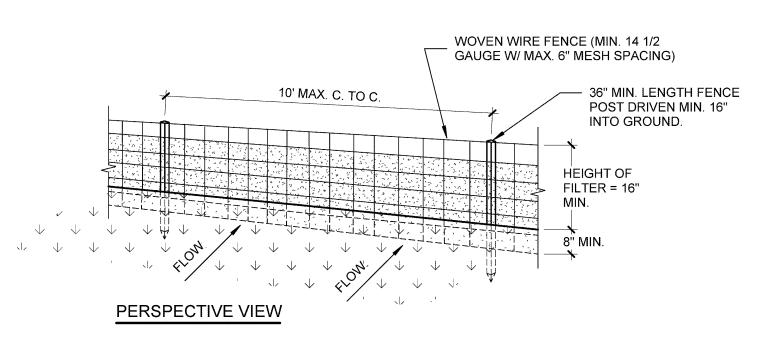
CHAINLINK FENCING AND COMPLETE WITH ALL BRACKETS AND SUPPORTS

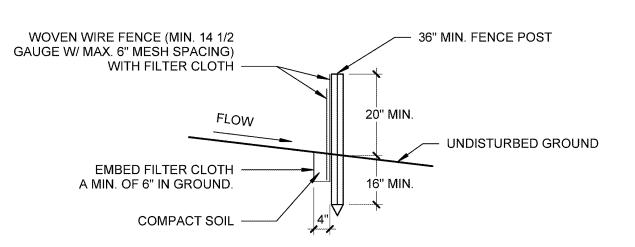


# ADD ALTERNATE 3 - INLET PROTECTION IN PAVEMENT Not To Scale



3 ADD ALTERNATE 3 - INLET PROTECTION IN LAWNS
Not To Scale

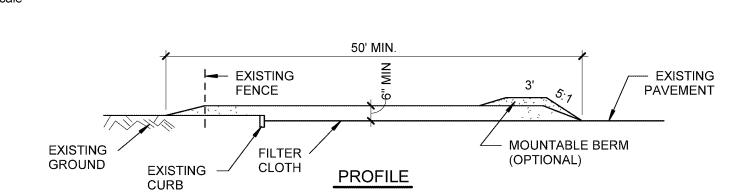


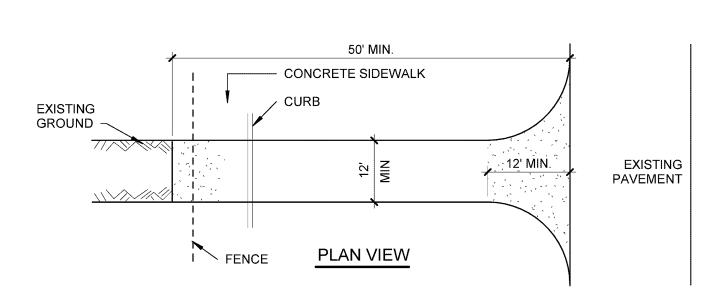


# SECTION VIEW

- CONSTRUCTION SPECIFICATIONS
- 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE HARDWARE.
- 2. FILTER CLOTH TO BE FASTENED SEUCRELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP
- AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.

  3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED
- EQUIVALENT.
  4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
  5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- ADD ALTERNATE 3 SILT FENCE





# CONSTRUCTION SPECIFICATIONS

- 1. STONE SIZE USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- 2. LENGTH NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MIN. LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 5. GEOTEXTILE WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- 6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPED WILL BE PREMITTED.
- 7. MAINTINANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, TRACKED, OR WASHED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATLY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABLIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

ADD ALTERNATE 3 - STABILIZED CONSTRUCTION ENTRANCE
Not To Scale

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Drawn By: MMF
Checked By: DPN

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**D** . .

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321 Post Avenue Rochester, NY 14619 SWBR Project Number 16155.16

Rochester Joint Schools Construction Board 70 Carlson Street, Suite 200 Rochester, NY 14610

L-501.1

L-301.

May 6, 2020

**GENERAL STRUCTURAL NOTES:** 

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS, ELEVATIONS, AND PLUMBNESS OF EXISTING CONSTRUCTION AS SHOWN AND IMMEDIATELY REPORT TO THE ARCHITECT ANY DISCREPANCIES OR OMISSIONS PRIOR TO CONSTRUCTION OR FABRICATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCURATELY DETERMINE THE ACTUAL DIMENSIONS, ELEVATIONS, AND PLUMBNESS OF EXISTING WORK.

2. ALL EXISTING CONSTRUCTION ADJACENT TO NEW WORK IS TO BE ADEQUATELY SUPPORTED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY NEW OR EXISTING WORK DAMAGED WHILE WORK IS IN PROGRESS TO THE SATISFACTION OF THE ARCHITECT.

3. THE SUPPLIERS OF PRECAST, GLASS AND OTHER ARCHITECTURAL ITEMS ARE RESPONSIBLE FOR THE

CONNECTIONS OF SAME TO THE STRUCTURAL FRAMING SYSTEM. 4. CONTRACTOR IS RESPONSIBLE TO COORDINATE REQUIRED SPECIAL INSPECTIONS AS LISTED ON THIS DRAWING WITH THE PROJECT SPECIAL INSPECTOR.

WIND LOAD DESIGN DATA (MECHANICAL UNIT SCREEN

BASIC WIND SPEED... 120 MPH BUILDING RISK CATEGORY... WIND EXPOSURE... INTERNAL PRESSURE COEFFICIENT.. . +/-0.18

	COMP	ONENTS AND	CLADDING	PER ASCE	7-10 (FLA	ΓROOF)	
			NE	T WIND DES	SIGN PRES	SURE (PS	F)
TYPE	ZONE	LOCATION		WIND A	REA		
			10 SF	20 SF	50 SF	100 SF	500 SF
	4	INTERIOR	12.5	11.8	10.7	9.9	-
	1	INTERIOR	-30.8	-30.0	-29.0	-28.2	-
D005	0	END	12.5	11.8	10.7	9.9	-
ROOF	2	LND	-51.8	-46.2	-38.9	-33.4	-
	•	CORNER	12.5	11.8	10.7	9.9	_
	3	CORNER	-77.8	-64.5	-46.8	-33.4	-
		INTERIOR	30.8	29.4	27.6	26.2	23.0
WALL	4	INTERIOR	-33.4	-32.0	-30.2	-28.8	-25.6
VVALL	1	END	30.8	29.4	27.6	26.2	23.0
	5	LIAD	-41.3	-38.6	-34.9	-32.0	-25.6

NOTE: WIND PRESSURES NOTED ON TABLE SHALL BE USED TOGETHER WITH LOAD COMBINATIONS AS REQUIRED PER ASCE 7-10 CODE.

# **FOUNDATION NOTES:**

- 1. PROVIDE TEMPORARY OR PERMANENT SUPPORTS, WEATHER SHORING, SHEETING, OR BRACING, SO THAT NO HORIZONTAL MOVEMENT AND/OR VERTICAL SETTLEMENT OCCUR TO EXISTING STRUCTURES, STREETS, SOIL, OR UTILITIES ADJACENT TO OR IN THE PROJECT SITE.
- 2. CARRY OUT A CONTINUOUS CONTROL OF SURFACE AND SUBSURFACE WATER DURING CONSTRUCTION SUCH THAT FOUNDATION WORK IS PERFORMED IN DRY AND ON UNDISTURBED SUBGRADE MATERIAL. THE CONTINUOUS WATER CONTROL SHALL BE CONDUCTED UNTIL THE PERMANENT DEWATERING SYSTEM PER THE
- DRAWINGS IS IN-PLACE. 3. PROTECT IN-PLACE FOUNDATIONS AND SLABS FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETED. 4. ACKFILL EVENLY UP BOTH SIDES OF FOUNDATION WALLS TO PREVENT UNBALANCED LOADING. WALLS NOTED AS RETAINING WALLS MAY BE BACKFILLED PRIOR TO ERECTION OF STRUCTURAL STEEL U.O.N. ON PLANS.

# STRUCTURAL MASONRY NOTES:

- 1. STRUCTURAL CONCRETE UNIT MASONRY SHALL HAVE A COMPRESSIVE STRENGTH OF fm = 2,000 PSI
- 2. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO THE ASTM C90, TYPE I, EXCEPT THAT THE MINIMUM COMPRESSIVE STRENGTH OF THE UNITS SHALL BE 2,800 PSI ON THE NET CROSS-SECTIONAL AREA OF THE
- BLOCK. ALL UNITS SHALL BE 2 CORE, NORMAL WEIGHT BLOCK. 3. ALL MORTAR FOR EXTERIOR OR LOAD BEARING CONCRETE MASONRY SHALL CONFORM TO ASTM C270. TYPE S, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI AT 28 DAYS. ALL MORTAR FOR BELOW GRADE CONSTRUCTION SHALL CONFORM TO ASTM C270, TYPE M. ALL OTHER MORTAR SHALL CONFORM TO ASTM C270, TYPE N, WITH A MINIMUM COMPRESSIVE STRENGTH OF 750 PSI AT 28 DAYS.
- 4. GROUT FOR FILLING BLOCK CORES SHALL CONFORM TO ASTM C476, COARSE GROUT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. GROUT SHALL BE PLACED IN LIFTS NOT EXCEEDING 4 FEET IN HEIGHT. TEST GROUT COMPRESSIVE STRENGTH BY ASTM C1019.
- 5. ALL MASONRY WALLS SHALL BE ADEQUATELY BRACED PRIOR TO BACKFILLING. 6. ALL MASONRY WALLS SHALL BE REINFORCED WITH 9-GAUGE HORIZONTAL JOINT REINFORCING, PLACED IN
- EVERY SECOND BED JOINT, UNLESS OTHERWISE NOTED. 7. ALL WALLS SHALL BE LAID IN RUNNING BOND.

# **STRUCTURAL STEEL NOTES:**

- 1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN STRICT ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS.
- 2. ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A992, GRADE 50. STEEL PLATES SHALL CONFORM TO ASTM A36. STEEL TUBE SECTIONS SHALL CONFORM TO ASTM A500, GRADE B. STEEL PIPE SECTIONS SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPES E OR S, GRADE B.
- 3. ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER ASTM A325 TYPE N HIGH STRENGTH BOLTS UNLESS OTHERWISE NOTED. ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO WITHIN 70% OF THEIR SPECIFIED MINIMUM TENSILE STRENGTH. THE CONTRACTOR SHALL USE INDICATOR WASHERS, LOAD INDICATOR BOLTS, OR STANDARD BOLTING WITH FIELD TESTING TO VERIFY PROPER INSTALLATION. TURN OF THE NUT METHOD IS ACCEPTABLE. NO FIELD BURNING OF HOLES WILL BE
- PERMITTED. LOAD INDICATOR BOLTS SHALL BE TIGHTENED UNTIL THE SPLINED END SNAPS OFF. 4. ALL WELDS SHALL BE MADE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE AWS, USING E70 ELECTRODES. PROVIDE FIELD TOUCH-UP PAINT TO MATCH SHOP-APPLIED PRIMER WHERE PAINT HAS BEEN BURNED OFF.
- 5. LINTELS IN EXTERIOR WALL AND ALL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED. SEE SPECIFICATIONS.

# **REQUIRED SPECIAL INSPECTIONS:**

THE FOLLOWING DENOTES THE SPECIAL INSPECTION PROGRAM AS REQUIRED UNDER CHAPTER 17 OF THE BUILDING CODE OF NEW YORK STATE FOR THIS PROJECT.

# LIST OF WORK REQUIRING SPECIAL INSPECTION:

- 1. STEEL CONSTRUCTION PER NYS CODE TABLE 1704.3
- 2. MASONRY CONSTRUCTION LEVEL 1 INSPECTION PER NYS CODE TABLE 1704.5.1 3. SOILS - VERIFICATION OF FILL PLACEMENT AND EVALUATION OF IN-PLACE DENSITY PER THE APPROVED SOILS REPORT (NYS CODE TABLE 1704.7, TASKS 3 & 4).

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Drawn By:	GG
Checked By:	MEK
Project Manager:	AMS

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Revisions

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> Rochester Joint Schools Construction Board 70 Carlson Street, Suite 200

SWBR Project Number 16158.00

S-001.1

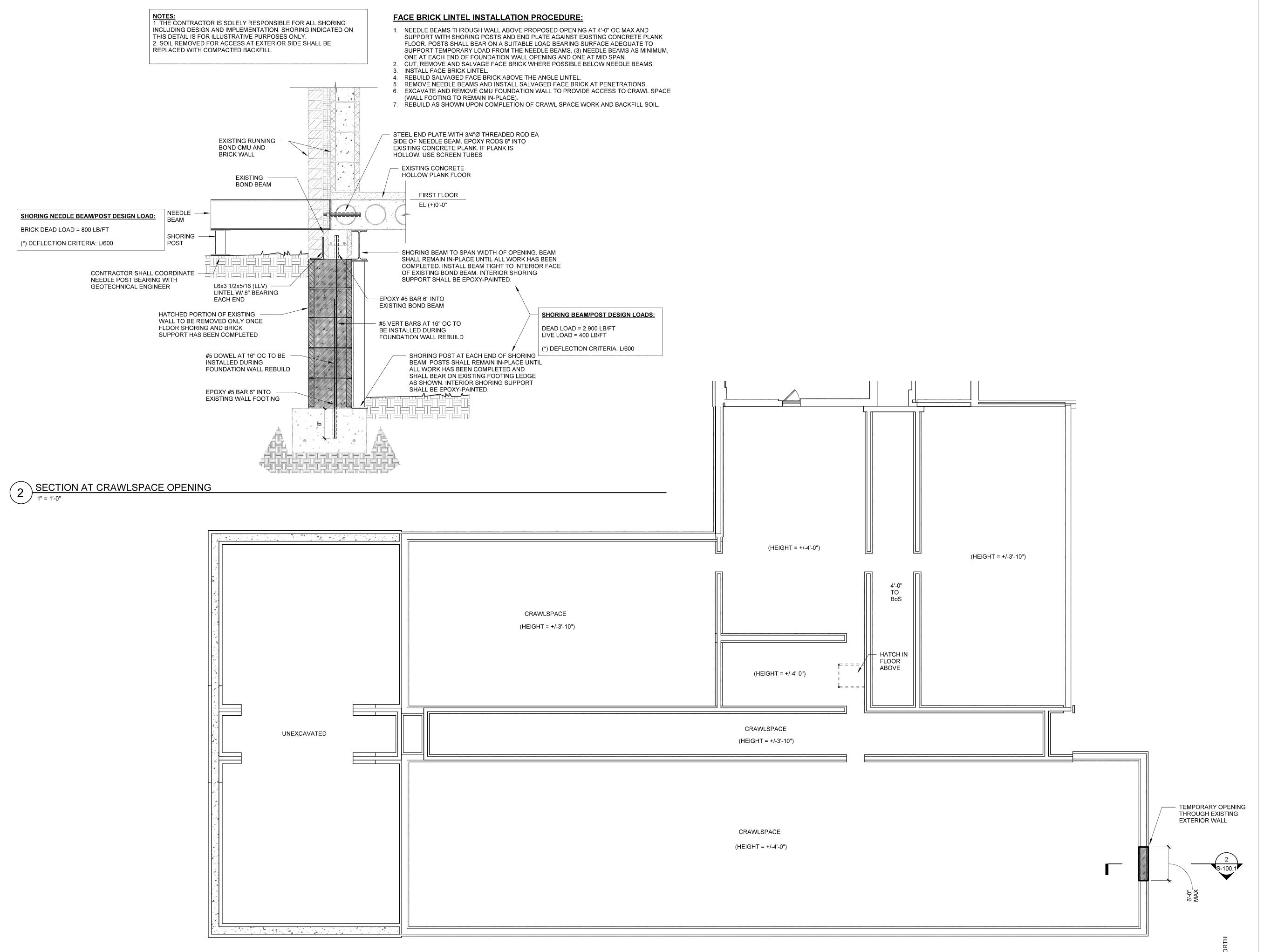
Rochester, NY 14610

**GENERAL** STRUCTURAL

NOTES & DESIGN

May 6, 2020

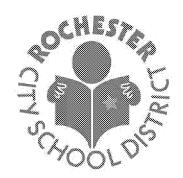
CRITERIA



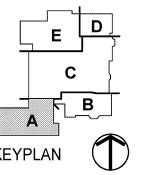
ENLARGED FLOOR PLAN - CRAWLSPACE

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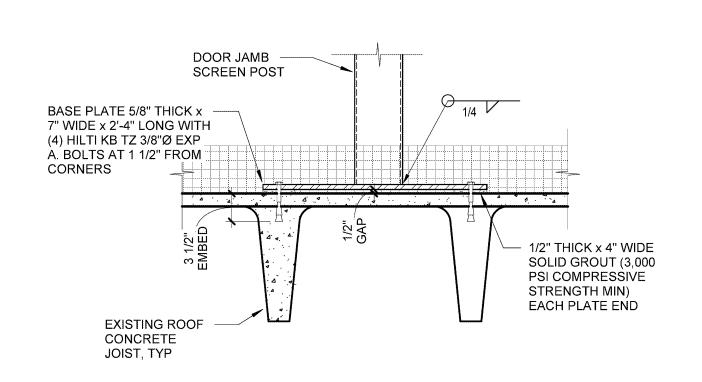
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S-100.1

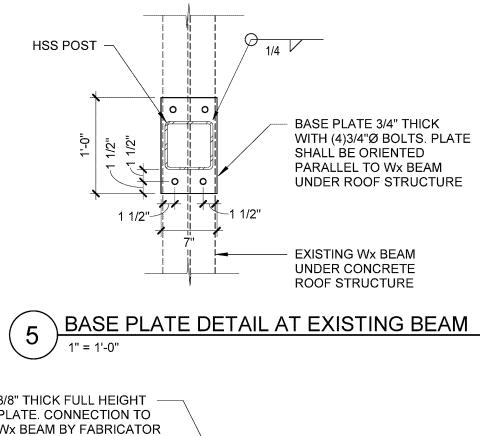
CRAWLSPACE FLOOR PLAN & OPENING DETAIL

— CAP PLATE TO MATCH Wx BEAM FLANGE THICKNESS TOP AND \ C5x6.7 TOP AND BOTTOM FLANGE / BOTTOM OF SCREEN, TYP, UON ON PLAN HSS BEAM -- HSS POST AT CORNER Wx BEAM BEYOND SCREEN PANEL CONTINUITY PLATE TÖ MATCH HSS BEAM FLANGE THICKNESS CONTINUITY PLATE TO HSS POST MATCH Wx BEAM FLANGE THICKNESS ANGLE, SEE ARCH DWGS, TYP SCREEN PANEL

SECTION AT TOP CORNER OF SCREEN WALI

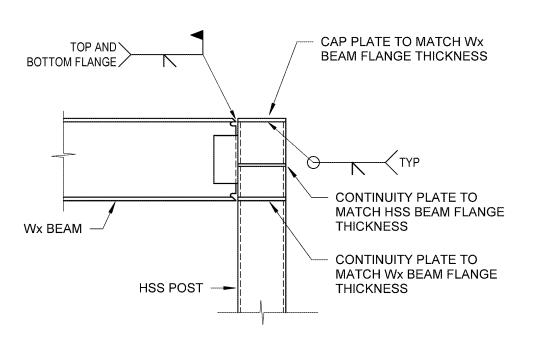


SECTION AT SCREEN DOOR JAMB POST BASE CONNECTION

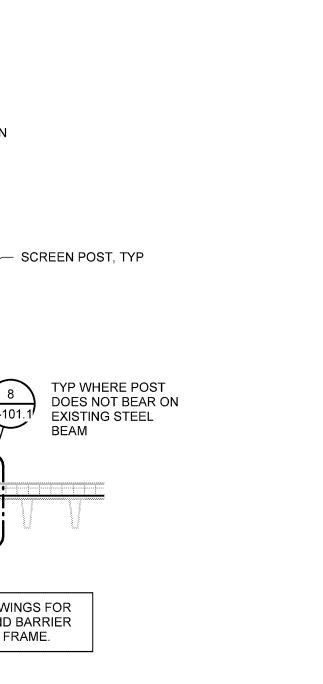


3/8" THICK FULL HEIGHT PLATE. CONNECTION TO Wx BEAM BY FABRICATOR Wx BEAM - Wx MOMENT FRAME BEAM

Wx BEAM TO Wx MOMENT FRAME BEAM CONNECTION



\ Wx BEAM TO HSS COL MOMENT CONNECTION



ROOFTOP UNIT SHALL BE LOCATED ON

S-101.1

NOTE: SEE ARCHITECTURAL DRAWINGS FOR

TOP OF STEEL HEIGHT AND SOUND BARRIER PANEL ATTACHMENT TO SCREEN FRAME.

EXISTING W21 BEAMS. SEE PLAN FOR CURB REQUIREMENTS UNDER UNIT.

4'-5 1/2" UNIT BASE CURB SUPPORT TO SPAN OVER (3) EXISTING Wx BEAMS HSS6x6x1/4 SCREEN ∷WALL POST, TYP.⊗.... W8x31 STEEL BEAM UNDER SCREEN WALL POST, TYP, UON AT EAST ∷(12) POSTS TOTAL SCREEN WALL. SEE DETAIL 8/S-101.1 UNIT S-101.1 EXISTING KITCHEN :-WALL MAKE-UP AIR UNIT EXISTING PRECAST DOUBLE TEES, TYP EXISTING ROOF STEEL BEAM

# STRUCTURAL KEYNOTES

- (1) HSS6x6x1/4 BEAM AT TOP OF SCREEN WALL. SEE DETAIL 7/S-101.1 FOR BEAM/POST CONNECTION.
- (2) W10x26 BEAM AT TOP OF SCREEN. PROVIDE MOMENT CONNECTION AT EACH END PER DETAIL 3/S-101.1.
- DIMENSION SHALL BE COORDINATED WITH PURCHASED ROOFTOP MECHANICAL UNIT PRIOR TO STEEL FABRICATION. MOMENT FRAMES SHALL CLEAR MECHANICAL UNIT FOR FUTURE REPLACEMENT OVERHEAD.
- THE HATCHED AREA INDICATES A 3,200 Ib OPERATING WEIGHT DAIKIN CHILLER MODEL AGZ050E USED AS BASIS OF DESIGN. THE UNIT OVERALL DIMENSIONS ARE 7'-4" x 7'-10" x 8'-4" (WIDTH x LENGTH x HEIGHT). THE SCREEN FRAME AND EXISTING ROOF STRENGTHENING WERE DESIGNED TO ACCOMMODATE FOR THIS UNIT, WHICH MAY OR MAY NOT BE THE ACTUAL UNIT USED FOR THE PROJECT. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IF THE UNIT PURCHASED DOES NOT CORRESPOND TO THIS UNIT. POSSIBLE REDESIGN MAY BE REQUIRED.
- SEE DETAIL 4/S-101.1 FOR TYPICAL CONNECTION OF WX BEAM TO WX MOMENT FRAME BEAM.
- 6 C4x4.5 HORIZONTAL BRACE FROM TOP OF HSS POST TO Wx BEAM.
- (7) W10x12 HORIZONTAL BRACE BETWEEN WX MOMENT FRAME BEAMS.
- 8 SEE DETAIL 6/S-101.1 FOR DOOR JAMB POST BASE CONNECTION.
- PROVIDE HORIZONTAL HSS5x2x3/16 AT BOTTOM OF SCREEN ONLY AT 12'-0" SPAN PORTION.
- SEE DETAIL 5/S-101.1 FOR SCREEN POST CONNECTION TO EXISTING Wx BEAM UNDER ROOF STRUCTURE.



PARTIAL ROOF FRAMING PLAN AT CHILLER AT CAFETERIA/SERVERY

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KEYPLAN

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S-101.1

ACOUSTICAL SOUND BARRIER **DETAILS** 

May 6, 2020 Bid Set

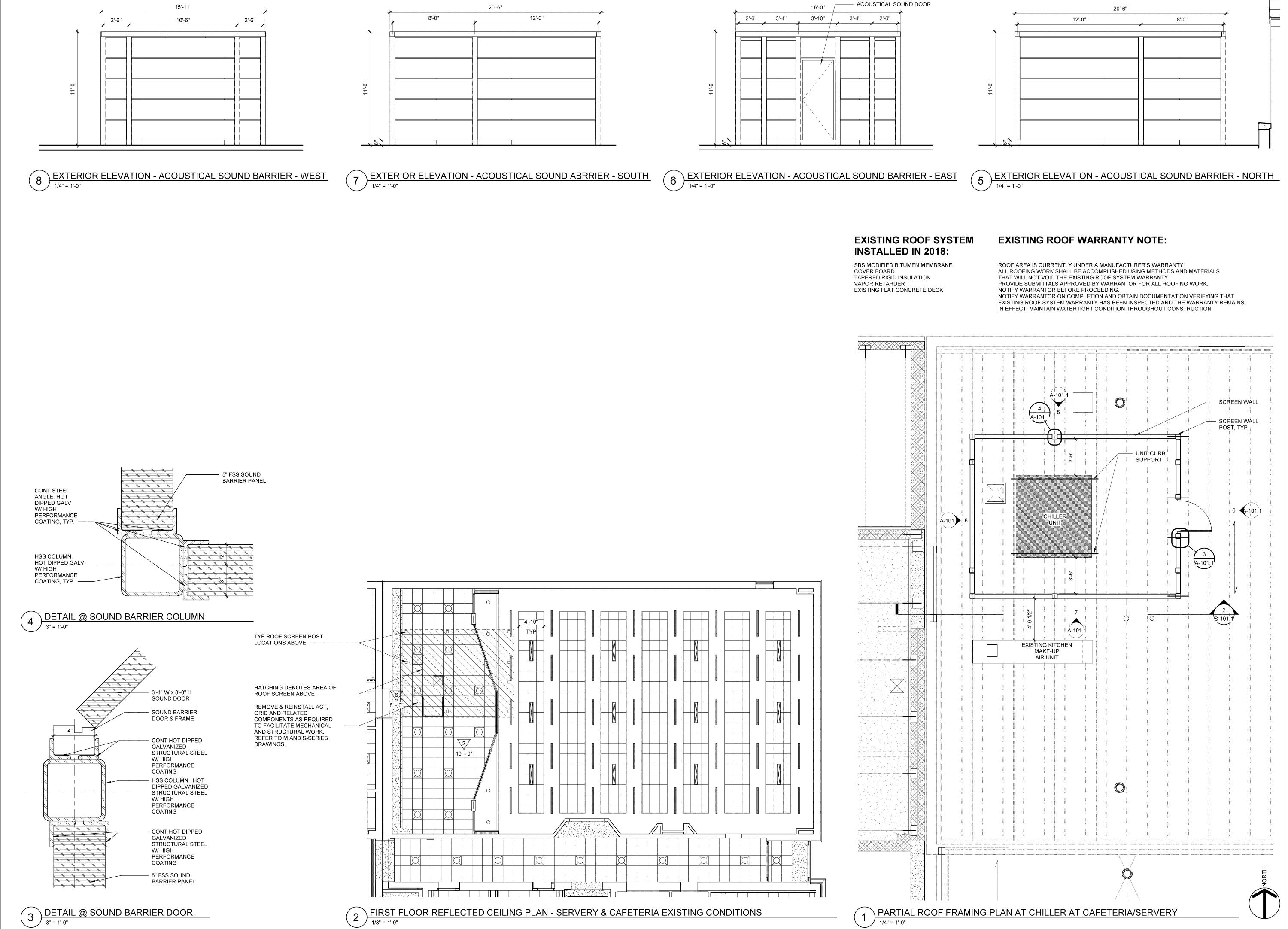
SECTION AT ACOUSTICAL SCREEN/CHILLER

Wx BEAM,

TYP

- EXISTING

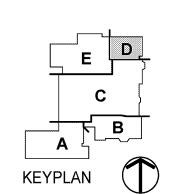
CAFETERIA



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A-101.1

**ENLARGED PLANS** & DETAILS - ROOF & CAFETERIA RCP

TYP FLASHING DETAIL AT BASE OF POST

STEEL POST — LIQUID FLASHING FINISH COAT ----LIQUID FLASHING BASE COAT 3RD LAYER -ROUNDED REINFORCEMENT W/ UNDERSIZED HOLE, TURNING UP VERT 1/2". EMBED INTO BASE COAT 2ND LAYER WITHOUT WRINKLES OR FOLDS. LIQUID FLASHING BASE COAT 2ND LAYER — LIQUID FLASHING REINFORCED VERT WRAP W/ 1" FINGERS EMBEDDED INTO BASE COAT WITHOUT WRINKLES OR FOLDS -LIQUID FLASHING BASE COAT — LIQUID FLASHING LAYERS ARE EXAGGERATED FOR CLARITY

LIQUID BASE FLASHING DETAIL

GAS LINE PIPING SBS MODIFIED MEMBRANE CAP SHEET BASE PLATE NOTES: 1. INSTALL PIPE SUPPORT AT A MAX OF 8'-0" ON CENTER AND WITHIN 2'-0" OF EACH DIRECTION CHANGE. PIPE SUPPORTS SHOULD BE AT A HEIGHT

THAT MAINTAINS ROOF WARRANTY AND COMPLIES WITH MEP REQUIREMENTS.

- ROOF BALLASTED PIPE

SUPPORT WITH ADJUSTABLE HEIGHT

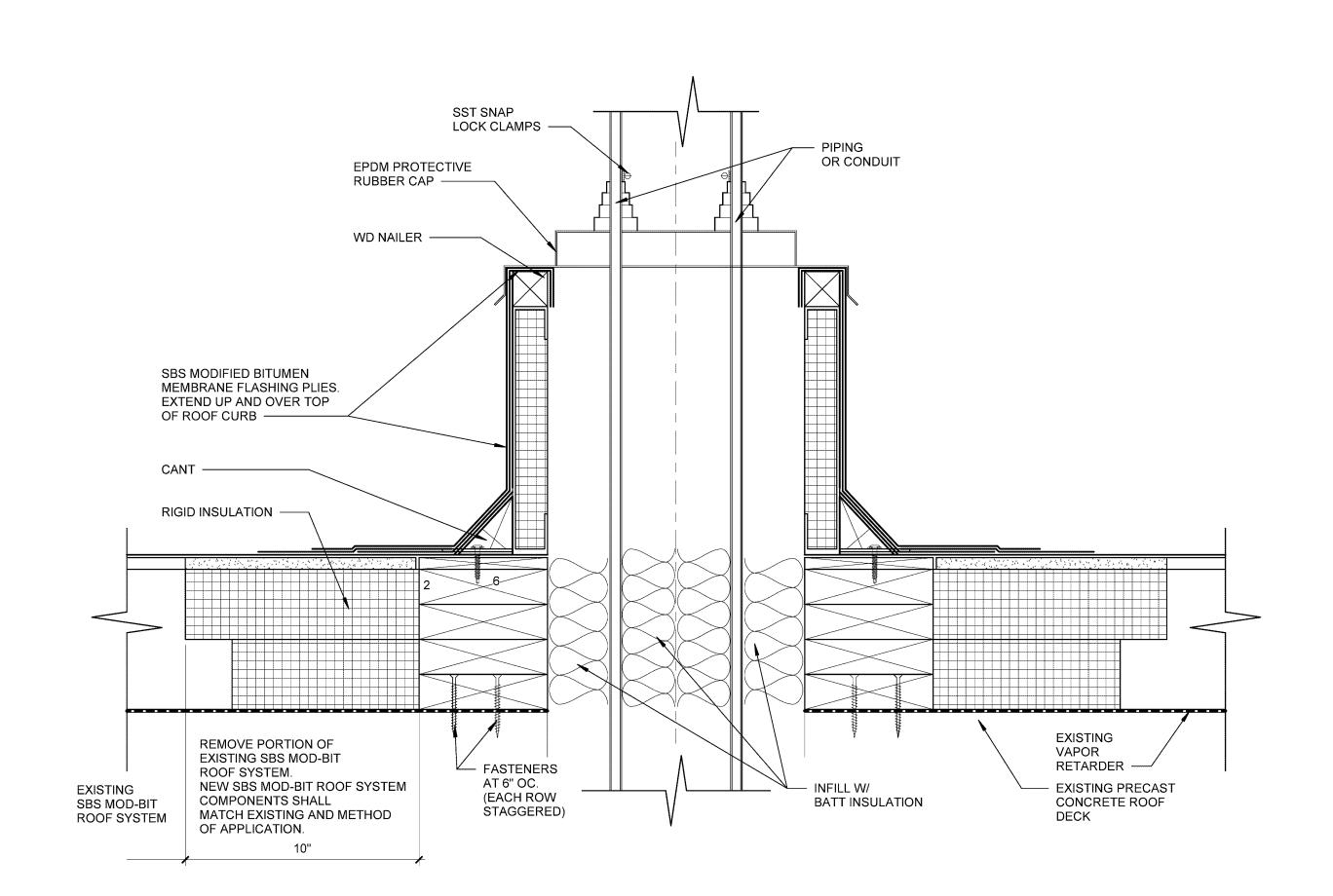
2. INSTALL EACH SUPPORT OVER PIECE OF SBS MODIFIED MEMBRANE CAP SHEET.

3. NO WOOD BLOCKING SHALL BE USED FOR PIPE SUPPORTS.

GAS LINE PIPING SUPPORT DETAIL

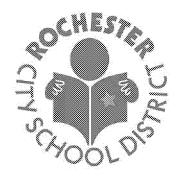
- SBS BASE MEMBRANE FLASHING PLY 4" MIN ON FIELD - SBS MEMBRANE FLASHING PLY 6" MIN ON FIELD — SBS FIELD BASE MEMBRANE PLY - SBS FIELD CAP MEMBRANE PLY

PREMANUFACTURED SHEET METAL ENCLOSURE - FLASHING
3" = 1'-0"



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A-120.1 **ROOF DETAILS** 

May 6, 2020 Bid Set

PIPE PORTAL DETAIL

# PLUMBING GENERAL NOTES LIST

- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER FIELD FITTING AND QUANTITY OF WORK CONTRACTOR SHALL OBTAIN FIELD MEASUREMENTS AS REQUIRED AND BE RESPONSIBLE FOR FITTING NEW CONSTRUCTION TO EXISTING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY EXISTING CONDITIONS DISTURBED OR DAMAGED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PERFORM A SITE INVESTIGATION OF EXISTING CONDITIONS PRIOR TO PREPARING BID AND COMMENCEMENT OF WORK
- THE PLUMBING CONTRACTOR SHALL REVIEW THE CONTRACT DRAWINGS AND SPECIFICATIONS TO COORDINATE WORK WITH ALL OTHER TRADES.
- PROMDE FOR ALL CUTTING, PATCHING AND FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH AND SEAL OPENINGS TO MATCH ADJACENT EXISTING WALLS, FLOORS, CEILINGS, ETC. CONCEAL ALL WORK IN FINISHED AREAS UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ARCHITECT. PIPES PENETRATING FIRE-RESISTANT-RATED WALLS AND FLOORS SHALL BE FIRESTOPPED USING APPROVED, U.L. LISTED FIRESTOPPING MATERIAL. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE-RESISTANT-RATED WALL
- CONSTRUCTION. ALL FLOORING/CEILING ASSEVIBLIES ARE FIRE-RATED ASSEVIBLIES. THE PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND EXISTING CONDITIONS (PIPING, DUCTWORK, EQUIPMENT, STRUCTURAL ELEMENTS, ETC.) PRIOR TO COMMENCING WITH WORK CONTRACTOR SHALL COORDINATE INSTALLATION OF EQUIPMENT AND PIPING WITH EXISTING CONDITIONS AND OTHER TRADES. PROVIDE FITTINGS, TRANSITIONS, OFFSETS, ELEVATION CHANGES, ETC. TO MINIMIZE CONFLICTS WITH EXISTING CONDITIONS.
- THE DRAWINGS ARE SCHEWATIC IN INTENT AND SERVE TO INDICATE THE TYPE AND LOCATION OF MAJOR PIECES OF EQUIPMENT. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY FOR A COMPLETE INSTALLATION. ADJUST THE LOCATION OF ALL PIPING, WIRING, EQUIPMENT AND CONNECTIONS TO ACCOMODATE ACTUAL CONSTRUCTION CONDITIONS ENCOUNTERED; OBTAIN APPROVAL FROM THE ENGINEER FOR
- ALL BUT MINOR CHANGES. EQUIPMENT AND DEVICES SHALL BE FULLY ACCESSIBLE. PROMDE AND INSTALL ALL SUBMITTED EQUIPMENT AND SYSTEMS IN COMPLIANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATIONS.
- ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY THE USE OF ITEMS SUBMITTED BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS.
- PROMDE ALL NECESSARY TEMPORARY UTILITY SERVICES FOR THE BUILDING DURING ALL PHASES OF CONSTRUCTION. SCHEDULE SYSTEM SHUTDOWNS WITH OWNER. SYSTEM
- SHUTDOWNS SHALL NOT INTERFERE WITH BUILDING OPERATIONS. THE EXISTING BUILDING MATERIALS MAY CONTAIN ASBESTOS MATERIALS. ALL WORK IN THESE AREAS SHALL BE PERFORMED IN COMPLIANCE WITH INDUSTRIAL CODE RULE 56, NEW YORK STATE, AND FEDERAL OSHA REQUIREMENTS. COORDINATE WORK IN THESE AREAS WITH ABATEMENT CONTRACTOR
- PROVIDE FOR THE PROPER OFF-SITE DISPOSAL OF ALL CONSTRUCTION DEBRIS AND/OR EXCAVATED MATERIALS ASSOCIATED WITH WORK IN THIS TRADE IN COMPLIANCE WITH LOCAL, NEW YORK STATE AND FEDERAL LAWS AND REQUIREMENTS.
- PERFORM ALL WORK IN COMPLIANCE WITH ALL LOCAL, NEW YORK STATE AND FEDERAL CODES AND ORDINACES, AS WELL AS ALL APPLICABLE NFPA STANDARDS, AND OTHER REFERENCED STANDARDS. PROVIDE FOR ALL REQUIRED INSPECTIONS BY AUTHORITIES
- HAVING JURISDICTION; PAY ALL ASSOCIATED FEES. OBTAIN ALL NECESSARY INSPECTIONS OF ROUGHED IN PIPING BY AUTHORITIES HAVING JURISDICTION PRIOR TO COMPLETION OF WALLS AND CEILINGS.
- THE DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATION, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES IN THE PIPING AND LOCATION OF EQUIPMENT, ETC., TO ACCOMODATE WORK, OBSTACLES AND THE WORK OF OTHER
- WHERE THE DRAWINGS OR SPECIFICATIONS DO NOT NAVIE A MANUFACTURER OR MODEL NUMBER OF A PRODUCT, THE CONTRACTOR SHALL PROVIDE A SUBMITTAL OF A PRODUCT
- FOR THE INTENDED APPLICATION TO THE ENGINEER FOR REVIEW AND APPROVAL. PROVIDE RECORD DRAWINGS DEPICTING THE LOCATIONS OF PIPING, EQUIPMENT, VALVES, CLEANOUTS AS-BUILT ON A CLEAN SET OF PLANS. PROMDE FULL SIZE COPIES FOR THE OWNER, ARCHITECT AND ENGINEER. PROVIDE (3) COPIES OF THE OPERATION AND MAINTENANCE MANUALS TO OWNER INCLUDING ALL PRODUCTS AND MECHANICAL EQUIPMENT.
- TEST ALL EQUIPMENT AND SYSTEMS FOR PROPER OPERATION.
- PROVIDE COPIES OF ALL WRITTEN WARRANTY INFORMATION TO THE OWNER IN THE O&M
- PROVIDE ALL ACCESSORIES, INCLUDING HANGERS, SUPPORTS, CONTROLS, INSULATION, VALVES, SHUT-OFFS AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL INSTALLATION.

ACTURER		FLOWRATE	HEAD	EL	ECTRICAL DA	ATA					
DEL NO.	LOCATION	(GPM)	(FT.)	H.P.	RPM	VOLTS/PH	NOTES				
ELLER		65	30	1/2 (2)	3450	115/1	122				

PLAN		MANUFACTURER		FLOWRATE	HEAD	EL	ECTRICAL DA	ATA	
DESIGNATION	TYPE	MODEL NO.	LOCATION	(GPM)	(FT.)	H.P.	RPM	VOLTS/PH	NOTES
SP-1	DUPLEX SUMP PUMP	ZOELLER MODEL N4161	CRAWL SPACE	62	30	1/2-(2)	3450	115/1	1,2,3
SP-2	DUPLEX SUMP PUMP	ZOELLER MODEL N4161	CRAWL SPACE	62	30	1/2-(2)	3450	115/1	1,2,3
SP-3	DUPLEX SUMP PUMP	ZOELLER MODEL N4161	CRAWL SPACE	62	30	1/2-(2)	3450	115/1	1,2,3

PUMP SCHEDULE

# NOTES:

- PROVIDE CONNECTION TO BMS FOR ENABLE/DISABLE AND STATUS/ALARM. PROVIDE ALL PROGRAMMING AND GRAPHICS.
- PROMDE DUPLEX/LEAD-LAG CONTROLS WITH HIGH LEVEL ALARM FOR EACH PUMP. PROMDE PERFORATED SUMP, 3 FT. DIAMETER, 4 FT. DEEP FOR EACH LOCATION.

# PLUMBING ABBREVIATIONS

AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE

BLDG BUILDING

CO CLEANOUT DN DOWN

NTS NOT TO SCALE

PH PHASE

RG&E ROCHESTER GAS & ELECTRIC

SAN SANITARY PIPING ST STORM PIPING

TYP TYPICAL

	PLUMBING SYMBOL LIST
SAN	SANITARY SEWER (SAN)
<u> </u>	VENT (V)
}PD	PUMP DISCHARGE (PD)
ST—	STORM SEWER (ST)
2	EXISTING PIPING TO REWAIN
<b>├</b> — — →	REMOVE EXISTING
5-16-5	BALL VALVE
<b>₹</b>	CHECK VALVE
<b>≥—  —</b> >	UNION OR FLANGE
—ю	PIPE RISER - ELBOWUP
<del>-1</del> 5	PIPE RISER - ELBOWDOWN
<del>-101 - 101 -</del>	DROP CONNECTION, RISE CONNECTION
	CAP OR PLUG
X	POINT OF DEMOLITION/REMOVALS
lacktriangle	POINT OF CONNECTION TO NEW
∥∞	CLEANOUT (CO)
(#) <sub>,</sub> [#]	KEYED PLUMBING NOTE - NEW, REMOVAL

# DIG SAFELY:

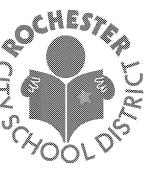
CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UNDERGROUND UTILITY LOCATIONS AND PROVIDE ALL PROTECTIVE MEASURES FOR EXCAVATION AND UNDERGROUND UTILITY WORK.

EXCAVATION.

DIG SAFELY: 1-800-962-7962

A MINIMUM OF TWO (2) DAYS PRIOR TO COMMENCING WITH

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P-001.1 ABBREVIATIONS, GENERAL NOTES,

**May 6, 2020** 

Bid Set

SYMBOLGY & SCHEDULES

CRAWLSPACE PLAN - AREA A - PLUMBING

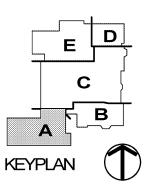


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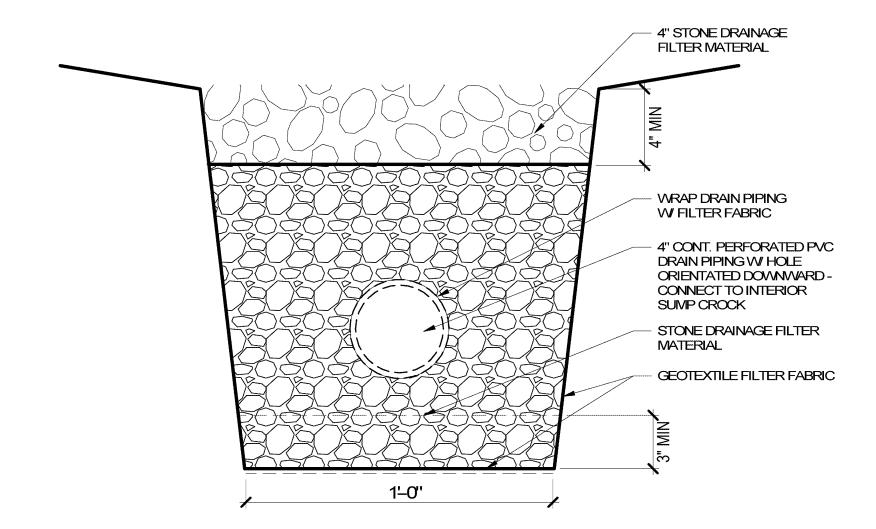
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P-100.1 CRAWLSPACE PLAN-AREA A

**May 6, 2020** 

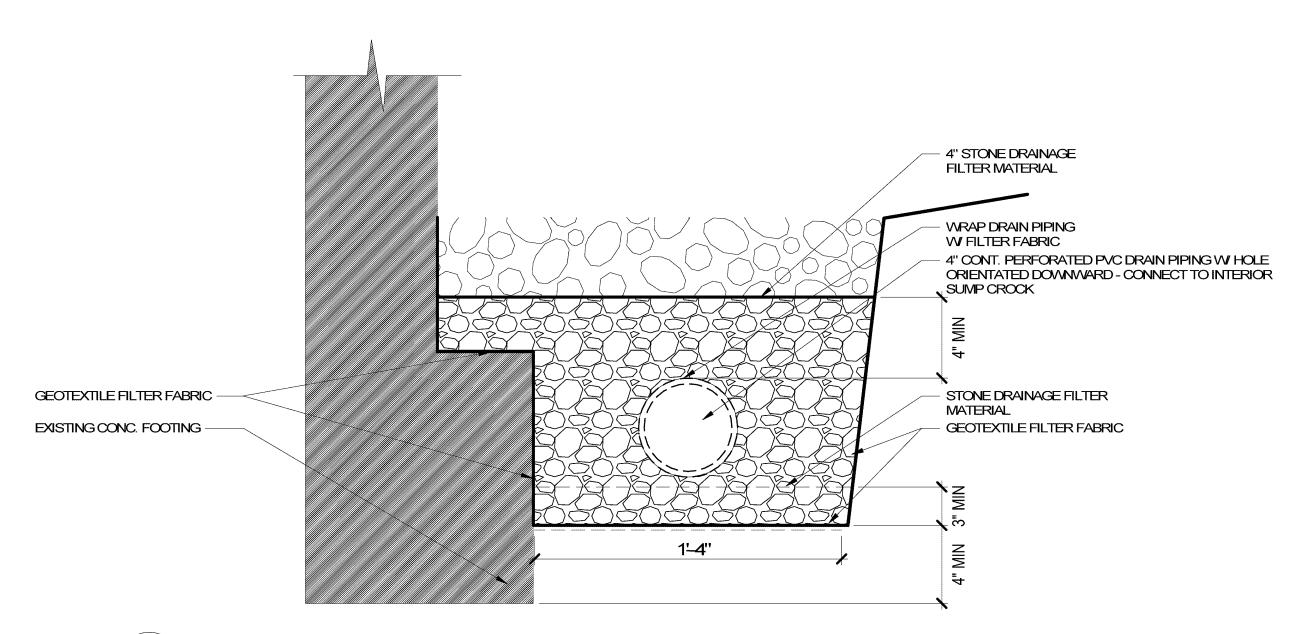


UNDERDRAINAGE PIPING TRENCH

2 NOTTO SCALE

2" PUMP DISCHARGE PIPED TO STORM SEWER IN CRAWLSPACE. ALARM LIGHT ALTERNATOR CONTROL PANEL. LOCATE ADJACENT TO SUMP. PROMDE STRUCTURAL SUPPORTS PUMP POWER SUPPLY AS NECESSARY, ATTACHED TO SLAB/STRUCTURE PROVIDE PRIME DISCONNECT-AND 2 FINISHED COATS OF PAINT. CONTROL & ALARM - INDICATOR LAMPS (INSIDE ENCLOSURE) POWER SUPPLY (SINGLE PHASE - TOGGLE SWITCHES (INSIDE ENCLOSURE) ONLY) - CHECK VALVE 2" NOTE: ALARM - CONTROL CIRCUIT - BASIN COVER. SHOULD BE SEPARATE FROM PUMP POWER (SINGLE PHASE ONLY) - TOP OF GRADE --- SP-1 & SP-2, 4" PERFORATED DRAINAGE PIPE. SP-3 PROVIDE A CAP TOP OF GRADE -TO THE 4" HUB FOR FUTURE DRAINAGE PIPE CONNECTION. - 4 FLOAT SYSTEM ALARM BELL "ON" BOTH PUMPS ALREADY ACTIVATED SET ABOVE 2" DISCHARGE PIPE OVERRIDE AND BELOWINLET "ALARM-OVERRIDE LEVEL SET ABOVE "ON" FLOAT AND BELOW INLET BOTH PUMPS "ON" ALARM BELL "ON" 3 FLOAT SYSTEM - "ON" LEVEL PUMPS ALTERNATE OPERATION EACH CYCLE MAXIMIZE BASED ON DEPTH AND VOLUME OF FLOAT SWITCH MINIMUM "OFF" LEVEL SEWAGE PUMP PERFORATED BASIN IN CRAWLSPACE. REMOVE EXISTING PUMP AND PIPING. GEOTEXTILE FABRIC 36"x48" PERFORATED BASIN -

DUPLEX SUMP PUMP - SP-1,SP-2 & SP-3 - AREA A - CRAWLSPACE



3 UNDERDRAINAGE PIPING TRENCH AT FOUNDATION NOT TO SCALE

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\_\_\_\_\_

S.E.D. CONTROL NUMBERS 26-16-00-01-0-016-020

Drawn By: NAK
Checked By: AAW/GMM

Project Manager: AMS

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Revisions

John Walton Spencer

School 16
321 Post Avenue
Rochester, NY 14619
SWBR Project Number 16158.00

Rochester Joint Schools Construction Board 70 Carlson Street, Suite 200 Rochester, NY 14610

P-500.1
PLUMBING DETAILS

**M**ay 6, 2020

Bid Set

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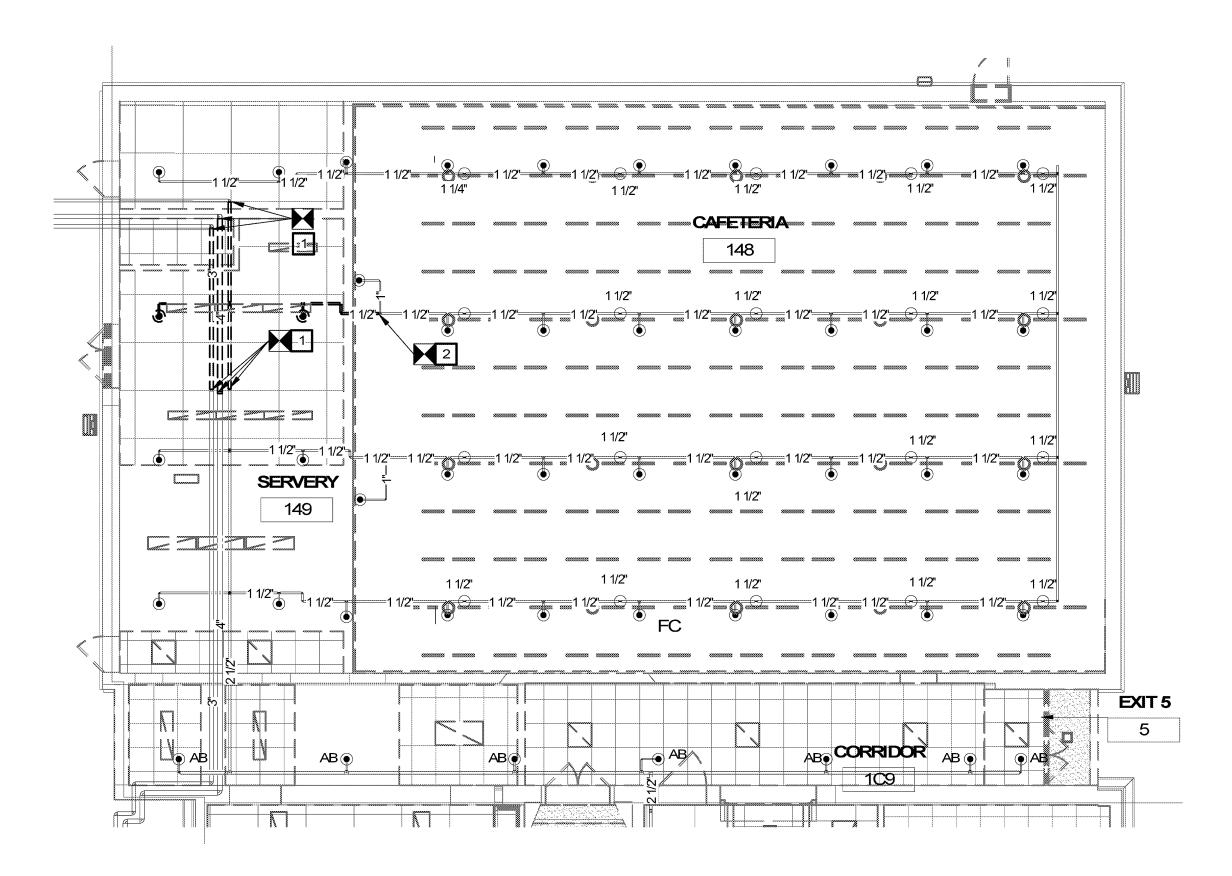
FP-141.1

**M**ay 6, 2020

**Bid Set** 

# REMOVAL NOTES:

- DRAIN SYSTEMS AND CAP OFF MAINS AT LOCATIONS INDICATED.
  DISCONNECT MAINS AT THESE LOCATIONS TO FACILITATE
  THE INSTALLATION OF ACOUSTICAL SOUND BARRIER POST.
- 2. DISCONNECT BRANCHLINE AT LOCATION INDICATED. PLUG OFF OUTLET.



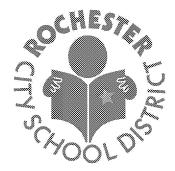




1 PARTIAL 1ST FLOOR AREA D- Replacement



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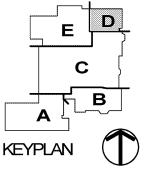
REPLACEMENT NOTES:

REMOVE CAPS, REINSTALL MAIN PIPING AS INDICATED. COORDINATE WITH THE OTHER TRADES TO INSURE THAT THERE ARE NO CONFLICTS.

UNPLUG 1-1/2" OUTLET AND REINSTALL BRANCHLINE TO FEED THE ORIGINAL SPRINKLER LOCATIONS. OFFSETS MAY BE REQUIRED TO

OFFSETS MAY BE REQUIRED TO AVOID OTHER TRADES.

AVOID CONFLICTS WITH OTHER TRADES.



S.E.D. CONTROL NUMBERS 26-16-00-01-0-016-020

Drawn By: ROF
Checked By: AW
Project Manager: AMS

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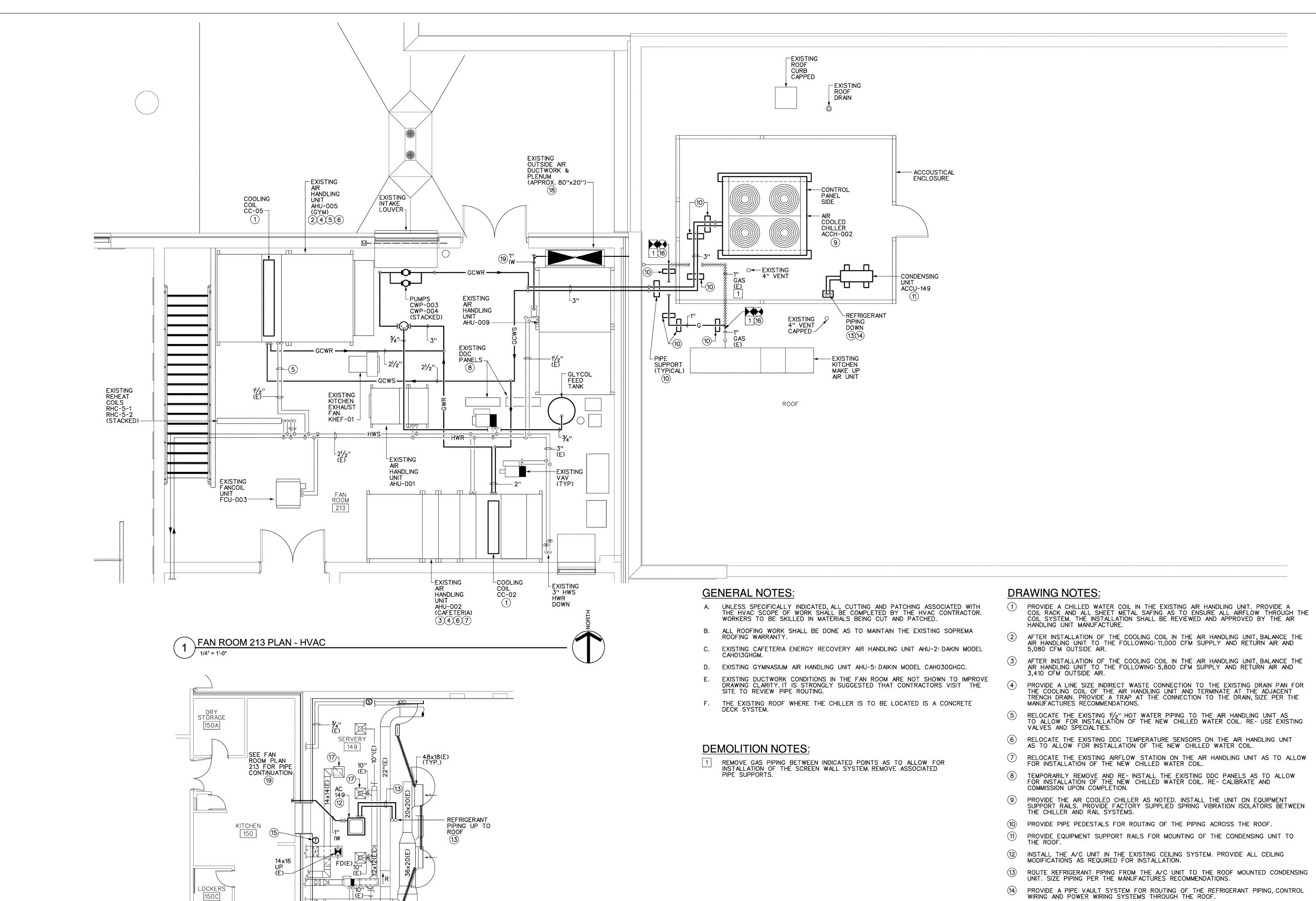
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FP-142.1
FP REPLACEMENT PLAN

**M**ay 6, 2020

Bid Set

HILE PATH: C:\Users\mconti\Documents\16068\_FP\_2019\_mcontiJ5GV6.rvt

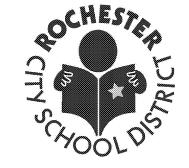


44x16

30x22(E)

SERVERY 149 PLAN

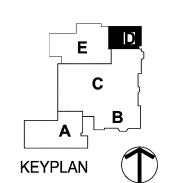
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Mechanical/Electrical Engineering Consultants M/E Project #: 160013.70 Rochester | Buffalo | Syracuse | Capital District



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> AJM Drawn By:

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15) PROVIDE A WALL MOUNTED MICROPROCESSOR CONTROLLER FOR THE A/C UNIT.

TO MAKE TIE IN.

AND ASSOCIATED DUCTWORK.

TIE GAS PIPING INTO EXISTING. PROVIDE ALL PIPING MODIFICATIONS AS REQUIRED

DISCONNECT GRILLES/DIFFUSER AND ASSOCIATED DUCTWORK FOR THE REMOVAL OF THE CEILING SYSTEM. ONCE CEILING SYSTEM IS REPLACED REINSTALL THE GRILLES/DIFFUSER

REMOVE AND RE- INSTALL THE EXISTING OUTSIDE AIR DUCTWORK SYSTEMS AS REQUIRED TO ALLOW ACCESS TO ROUTE THE NEW DRAIN PIPING SYSTEMS.

ROUTE DRAIN PIPING FROM THE A/C UNIT AND TERMINATE WITH A TURNED DOWN ELBOW INTO THE EXISTING FLOOR DRAIN.

John Walton Spencer School 16

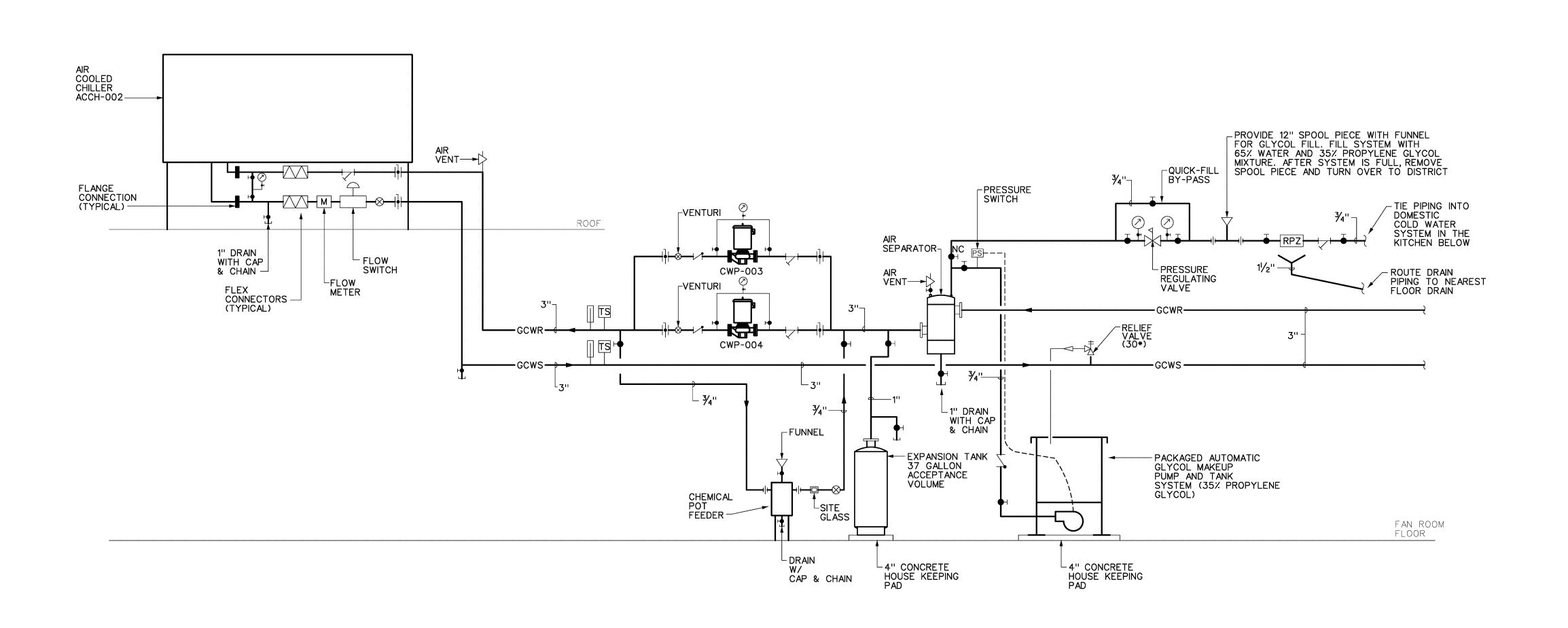
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M-421.1 MECHANICAL ROOM

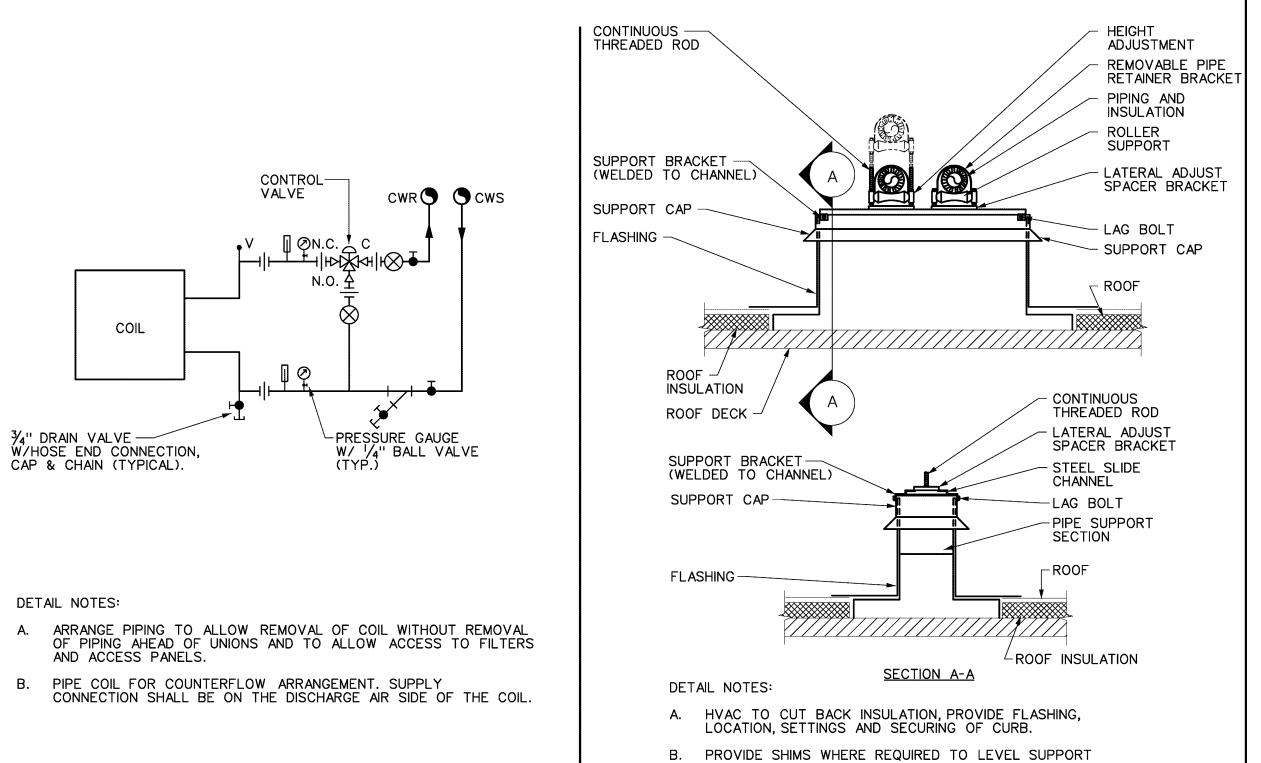
PLANS - HVAC

May 6, 2020



(4) CHILLED WATER SYSTEM FLOW SCHEMATIC

M501 SCALE: NONE



LENGTH AS CALLED FOR BY CHILLER MANUFACTURER SUPPORT CAP-EQUIPMENT-SUPPORT FLASHING -ROOF-INSULATION ROOF DECK-EQUIPMENT SUPPORT (PIPE SUPPORT SECTION SUPPORT CAP-SIMILAR) FLASHING -ROOF INSULATION SECTION A-A

1 THE VAULT

**DETAIL NOTES:** 

10

- MATCHING PREFAB ALUMINUM CAP
- MATCHING ALUMINUM CURB 14" HIGH MIN. TO COMPLY WITH WIND RATING, CURB MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION
- ALUM FLANGE, FASTEN TO ROOF DECK

SECTION

N.T.S.

- SBS FLASHING MEMBRANE
- CONTINUOUS CAULK WITH RUBBERIZED ASPHALT SEALANT
- 7 ROOFING SYSTEM
- 8 RECOVERY BOARD

- 9 RIGID INSULATION
- 10 CONCRETE ROOF DECK
- 11 CONDUIT, PIPE, REFRIGERANT LINE, ETC.

ELEVATION

N.T.S.

- 12 EXIT SEAL
- CONDUIT, PIPE, REFRIGERANT LINE, ETC.
- VANDAL RESISTANT STAINLESS SCREWS
- 16 FASTEN CURB FLANGE TO ROOF DECK

14 EXIT SEAL

**SCHEMATICS & DETAILS - HVAC** 

May 6, 2020

Bid Set

**EQUIPMENT SUPPORT DETAIL** 

C. LENGTH OF SUPPORTS AS REQUIRED.

A. HVAC TO CUT BACK INSULATION, PROVIDE FLASHING,

B. PROVIDE SHIMS WHERE REQUIRED TO LEVEL SUPPORT

D. PROVIDE WIND RESTRAINT PER SPECIFICATION SECTION 230550-WIND RESTRAINT FOR HVAC SYSTEMS.

LOCATION, SETTINGS AND SECURING OF CURB.

SIDE ENTRY PIPE PENETRATION VAULT DETAIL

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> Project Manager: WBK These documents and all the ideas, arrangements, designs and plans indicated thereon or presented thereby are owned by and remain the property of SWBR and no part thereof shall be utilized by any person, firm, or corporation for any purpose whatsoever except with the specific written permission of SWBR. All rights reserved. ©

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M/E Project #: 160013.70

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M-501.1

AHU COOLING COIL PIPING DETAIL M501 SCALE: NONE

PIPE SUPPORT DETAIL M501 SCALE: NONE

C. LENGTH OF SUPPORTS AS REQUIRED.

D. PROVIDE WIND RESTRAINT PER SPECIFICATION SECTION 230550-WIND RESTRAINT FOR HVAC SYSTEMS.

M501

SCALE: NONE

DETAIL NOTES:

M501 SCALE: NONE

POINT LIST	Γ																																																		
			START/STOP	LOW SPEE	HIGH SPEED FAN OUTSIDE AIR DAMPER	SMOKE DAMPER	LIGHTING ZONES				STATIS	F AN	VARIABLE SPEED DRIVE ALARN	FIRE ALARM	BOILER ALARM	VIBRATION SWITCH	CHILLER ALARM	CONDENSER WATE	CHILLED WATER FLO	REFRIG MONIT	REFR	GAS PRESSURE SENSOR	A ARM	ζ		DAMPER (R.A./O.A.	HEATING COIL VAL		VARIABLE SPEED DRIVE	CHILER RESET	TOWER BYPASS VALVE	VAV DAMPER		CDACE TEMP	RETURN	MIXED AIR TEMP	OUTSIDE AIR TEMP		WATER FLOW	COND WATER SUPPLY TE	COND WATER RETURN TE	CHILLED	AIRFI OW		HOT WATER SUPPLY TEMP	HOT WATER RETURN	HOT WAT	VSD SPEED	ξ 5		
EQUIPMENT	QUANTITY	DESCRIPTION	1	2	3 4			7		9 1	0   1	_   2	3	4	5			8			11   1	2   13	3   14	4   15	16	1	2			5   6			9   1	0   1	2	3	4	5	6	7	8 !					14	15	16   17	7   18	19	20
E GOII MEITT	QO/WIII	DESCRIPTION			DIG	ITAL	OUT	PUTS	3								DIGI	TAL	INPU	TS								AN	IALO(	G OL	TPUT	`S									Α	NALC	OG IN	IPUT:	3						
CWP-003,4	2	CHILLED WATER PUMPS	1								1		1										1	1					1															1				1			
CC-02,05	2	CHILLED WATER COILS																										1										1													
ACCH-002	1	CHILLER	1								1						1		1				1																1			1 1	l								
			1	2	3 4	5	6	7	8	9 1	0 1	2	3	4	5	6	7	8	9	10	11 1	2 13	3 14	4 15	16	1	2	3 4	4 5	5 6	7	8	9 1	0 1	2	3	4	5	6	7	8 !	9 10	) 11	12	13	14	15	16 17	7 18	19	20
NOTEC:			•					-																																					·	-					

NOTES:

1. FAN SYSTEM ALARM CONSISTS OF THREE DISCRETE INPUTS ON AIR HANDLER (LOW LIMIT, HIGH LIMIT AND SMOKE DETECTION).

2. THE FAN SYSTEM SAFETY ALARM ON RETURN FANS CONSISTS OF SMOKE DETECTION ONLY.

COOLING	COIL SCHED	ULE - CHILLI	ED WATER	3																	
			CAPACITY		AIR SIDE							WATER SI	DE (35% PR(	OP. GLYCOL)				COIL DIMEN	FACE		
UNIT NO.	LOCATION	SERVICE	SENSIBLE	TOTAL	AIR FLOW	AIR P.D. (In	EAT (DE	G. F)	LAT (DE	G. F)	MAX. FACE	WATER	WATER P.D.	ENT. WATER	LVG. WATER	ROWS DEEP	FINS PER	DIMEN	SIONS	MANUFACTURER & MODEL No.	REMARKS
	200///10/4	JERVIOL	(MBH)	(MBH)	(CFM)	W.C.)	DB	WB	DB	WB	VELOCITY (FPM)	FLOW (GPM)	(Ft. HD)	TEMP. (DEG. F)	TEMP. (DEG. F)	DEEP	INCH	LENGTH	HEIGHT	MANUEL NO.	, , , , , , , , , , , , , , , , , , ,
CC-02	AHU-002	CAFETERIA	161	245	5,800	0.98	79.7	67.7	54.4	54.2	472	42.9	13.9	45	57	10	8	59	30	DAIKIN 5WS0810B	1
CCOF	ALI L. OOF	CVM	266.1	7570	11 000	0.55	76.6	640	515	5/1	700	67.1	17.7	A E	E 7	0	0	0.5	40	DAIIZINI EMCOGOGO	1

 CC-05
 AHU-005
 GYM
 266.1
 357.8
 11,000
 0.55
 76.6
 64.9
 54.5
 54.1
 388
 63.1
 13.3
 45
 57
 8
 8
 85
 48
 DAIKIN 5WS0808B

 REMARKS:

 1. PROVIDE WITH FACTORY COIL RACK AND BLANK OFF PANELS FOR INSTALLATION IN EXISTING AIR HANDLING UNIT.

DUCTLES	SS SPLIT SY	STEM AIR CO	NDITIONING	G UNIT SCH	<b>IEDUL</b>	E														
UNIT NO.	L	_OCATION		INDOOR UNIT			,	,			OUTDOOR UNIT					EFFICIENC	Υ	MANUFACTURER & MODEL No.		
INDOOR	OUTDOOR	INDOOR	OUTDOOR	UNIT TYPE	СҒМ	COOLING CAPACITY (MBH)	VOLTS	PHASE	мса	MOP	REFRIGERANT	VOLTS	PHASE	MCA	МОР	MINMUM (SEER)	TEST PROCEDURE	INDOOR UNIT	OUTDOOR UNIT	REMARKS
AC-149	ACCU-149	SERVERY 149	ROOF	CASSETTE	1,218	42	208	1	1.8	15	R-410A	208	1	29.1	35	17		DAIKIN FCQ42TAVJU	DAIKIN RZR42TAVJU	1, 2, 3

REMARKS:

PROVIDE UNIT WITH WALL MOUNTED MICROPROCESSOR CONTROLLER.
PROVIDE UNIT WITH INTEGRAL CONDENSATE PUMP.
PROVIDE UNIT WITH FACTORY RELAY FOR INTEGRATION INTO THE BUILDING DDC SYSTEM.

					CHILLED WA	TER					MINIMUM	EFFICIE	ENCY (EER)	EER (B	TU/W)		ELECTRICAL				1
UNIT NO.	LOCATION	CAPACITY (TONS)	NO. OF COMPRESSORS	REFRIGERATION TYPE	FLOW RATE DESIGN	(GPM) MINIMUM	NO. OF INDEPENDENT CIRCUITS	P.D. (Ft. HD)	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)	FULL LOAD	IPLV	TEST PROCEDURE		0.8 0.50		VOLTS PH	ASE M	CA MOP	MANUFACTURER & MODEL No.	REMARKS
CH-002	ROOF	51.6	4	R410A	114	84	2	22	57	45	11.42	17.5	AHRI 550/590	11.4	15.2 18.9	9 20.6	460	3 10	9.5 125	DAIKIN AGZO50E	1, 2, 3

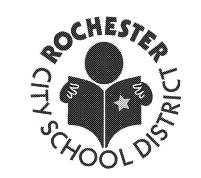
REMARKS:
1. PROVIDE WITH SOUND PACKAGE.
2. PROVIDE WITH INLET GRILLES
3. PROVIDE UNIT WITH FACTORY MOUNTED & WIRED WEATHERPROOF DISCONNECT SWITCH.

PUMP SC	HEDULE															
				PUMP C	APACITY		мото	R CHARAC	TERISTIC	S			MIN.			
PUMP NO.	LOCATION	SERVICE	UNIT TYPE & DESCRIPTION	FLOW (GPM)	TOTAL HEAD IN FEET	MAX WWP	RPM	HP VOLTS	PHASE	STARTER	IMPELLER SIZE (DIA. In.)	FLUID TEMP. (DEG. F)	PUMP EFF. (%)	MAX. BHP	MANUFACTURER & MODEL No.	REMARKS
CWP-003,4	FAN ROOM 213	CHILLED WATER	INLINE	114	85	175	1725	7.5 460	3	VFD	9	45	69	3.7	TACO KV2009D	1

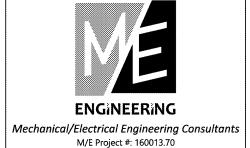
REMARKS:
1. DRIVE PROVIDED BY THE E.C.

	/AC SYMBOL LIST
SYMBOL	DESCRIPTION
41111111111111111111111111111111111111	EXISTING WORK TO BE REMOVED
	POINT OF CONNECTION
	POINT OF DISCONNECTION
MBH	THOUSAND BTU/HOUR
NTS	NOT TO SCALE
(E)	EXISTING
FPM	FEET PER MINUTE
CFM	CUBIC FEET PER MINUTE
AFF	ABOVE FINISHED FLOOR
E.C.	ELECTRICAL CONTRACTOR
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
	SUPPLY DIFFUSER, REGISTER OR GRIL
$\square$	RETURN OR EXHAUST REGISTER OR GRILLE
——GCWS—	GLYCOL CHILLED WATER SUPPLY
——GCWS——	GLYCOL CHILLED WATER SETURN
IW	INDIRECT WASTE
G	NATURAL GAS
——HWS-—	HOT WATER SUPPLY
HWR	HOT WATER SETURN
TIWIN	BALL VALVE
——————————————————————————————————————	THREE WAY CONTROL VALVE
T	0115014 1441 145
$\overline{}$	CHECK VALVE
<u></u>	BALANCING VALVE
<del></del>	BUTTERFLY VALVE
<b>₹</b>	RELIEF VALVE
PRV_	PRESSURE REDUCING VALVE
[	PRESSURE/TEMPERATURE TEST PLUG
	SINGLE LINE PIPE OR DUCT CONTINUE
7	STRAINER
<u> </u>	PRESSURE GAUGE
<u> </u>	THERMOMETER
	UNION
† V	AIR VENT
	DIRECTION OF FLOW
<del></del>	REDUCER
<del></del>	CAP OR PLUG
<del></del>	ELBOW DOWN
	ELBOW UP
<del></del>	BOTTOM TAP
<del>•</del> ∃	DRAIN VALVE WITH HOSE CONNECTION CAP AND CHAIN
FS	WATER FLOW SENSOR
ŢŚ	WATER TEMPERATURE SENSOR
	STATIC PRESSURE SENSOR
SP-	STATIC PRESSURE SENSOR
\$P-• <b>(S</b> )	TEMPERATURE SENSOR

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S.E.D. CONTROL NUMBERS 26-16-00-01-0-016-020

Drawn By: NMJ AJM Project Manager: WBK

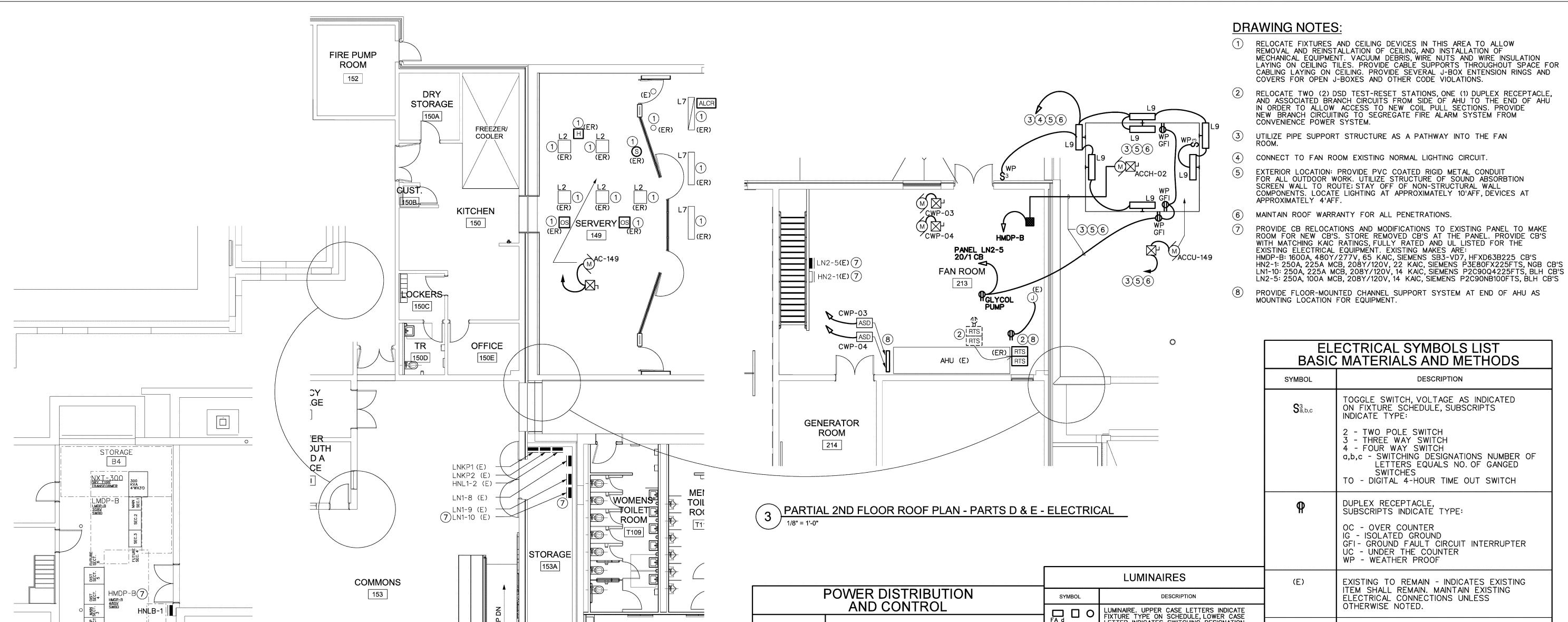
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M-601.1 SCHEDULES &

LEGENDS - HVAC



**ESOL** 142

			LUMINAIRES	(E)	EXISTING TO REMAIN - INDICATES EXISTING
	POWER DISTRIBUTION	SYMBOL	DESCRIPTION		ITEM SHALL REMAIN. MAINTAIN EXISTING ELECTRICAL CONNECTIONS UNLESS
	AND CONTROL		LUMINAIRE. UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE, LOWER CASE		OTHERWISE NOTED.
SYMBOL	DESCRIPTION		LETTER INDICATES SWITCHING DESIGNATION.	(ER)	EXISTING TO BE RELOCATED - INDICATES
_	208/120 VOLT PANELBOARD	品 日 5	WALL MOUNTED LUMINAIRE. UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE, LOWER CASE LETTER INDICATES SWITCHING DESIGNATION.		EXISTING ITEM SHALL BE RELOCATED. DISCONNECT AND REMOVE, REINSTALL AT NEW LOCATION AND RECONNECT ITEM AS REQUIRED.
_	480/277 VOLT PANELBOARD	EM	LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT	(R)	EXISTING TO BE REPLACED - INDICATES EXISTING ITEM SHALL BE REPLACED.
	MOTOR STARTER. REFER TO ELECTRIC	ALCR	AUTOMATIC LOAD CONTROL RELAY		RECONNECT TO EXISTING ELECTRICAL CONNECTIONS UNLESS OTHERWISE NOTED.
	EQUIPMENT AND CONTROL SCHEDULE FOR SIZE AND TYPE.	22	WALL MOUNTED EMERGENCY LUMINAIRE WITH BATTERY PACK	(3)	REFERENCE TO DRAWING NOTE
	ELECTRICAL CONNECTION. REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE FOR	⊗ ⊗	CEILING MOUNTED EXIT LUMINAIRE	9	REFERENCE TO DRAWING NOTE
	DESCRIPTION. LETTERS AND NUMBERS REFER TO "ITEM DESIGNATION" ON THE SCHEDULE.	<u></u>	WALL MOUNTED EXIT LUMINAIRE	3	REFERENCE TO DEMOLITION NOTE

PARTIAL 1ST FLOOR PLAN - PARTS D & E - ELECTRICAL

**GENERAL NOTES:** 1. ALL DEVICES PROVIDED BY THE DIVISION [16][26] CONTRACTOR.

2. ITEM NUMBER INDICATES EQUIPMENT NUMBER

3. ALL DEVICES SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED. 4. PROVIDE OVERLOADS, SIZE AS REQUIRED, BY THE DIVISION [15][22/23] CONTRACTOR.

5. "AU" INDICATES CONTROL DEVICES IS LOCATED AT THE UNIT.

6. "NF" INDICATES NON-FUSED.

7. "IU" INDICATES INTEGRAL WITH UNIT.

														7. "IU" INDICA	MESIN	TEGRAL WITH UNIT.											
		EQUIPMENT						POWER	R SOURCE, PROTECTION	ON & WIRING							NEMA DE	/ICE,TYP	E AND CONTR	OLS							
ITEM ID	NAME	ROOM LOCATION	HP	kVA	PHASE SYSTEM VOLTS	MCA or SYSTEM AMPS	r PANEL or M CONTROL CENTER	FUSE	POWER WIRING FROM PANEL TO CONTROL UNIT		NEMA SIZE S	NEMA TYPE MANUAL MOTOR STARTER MANUAL MOTOR STARTER WITH RELAY	MAGNETIC STARTER	COMBINATION MAGNETIC STARTER COMBINATION REDUCED VOLTAGE STARTER COMBINATION STARTER MP/FUSE (F) SIZE	ADJUSTABLE SPEED DRIVE	ADJUSTABLE SPEED DRIVE WITH BYPASS ADJUSTABLE SPEED DRIVE WITH REDUNDANT ASD PACKAGED CONTROL UNIT FURNISHED BY OTHERS CONTEX PUMP	OI HEKS FIRE ALARM FAN SHUTDOWN REQUIRED SUPPLY DUCT SMOKE DETECTOR W/ REMOTE TEST STATION	RETURN DUCT SMOKE DETECTOR W/ REMOTE TEST STATION CONNECTION; CONNECT TO CONNECT	AQUASTAT CONNECTION	MOTORIZED DAMPER CONNECTION START/STOP PUSHBUTTONS	HAND/OFF/AUTO SELECTOR SWITCH CONTROL DEVICE	LOCATION	SAFE VITCH FUSE MPS SIZE	ETY SWITCH	WEATHER PROOF	REF. NOTES	ITEM ID
ACCU-149		ROOF		5	1 208	29.1	LN2-5	35/2	3#8 1#10EG 3/4"C	3#8 1#10EG 3/4"C						Х					AU R	OOF	60 35	AU	Υ	2,3,4,7 A	CCU-149
AC-149	DUCTLESS SPLIT INDOOR A/C UNIT	SERVERY 149		0.5	1 208 1 208	1.8	LN1-10	15/2	3#12 1#12EG 3/4"C	3#12 1#12EG 3/4"C		X				X					X AI	U		AU	N	1,2,5,7	AC-149 .CCH-02 CWP-03
ACCH-02	52 TON AIR COOLED CHILLER	ROOF		73	3 480	109.5	HMDP-B	175/3	3#2/0 1#4EG 2"C	3#2/0 1#4EG 2"C						X					AU R		200 125	IU	Y	3,4,7 A	CCH-02
CWP-03	CHILLED WATER PUMP	FAN ROOM 213	7 1/2 7 1/2		3 480	11.0	HN2-1	30/3	3#10 1#10EG 3/4"C 3#10 1#10EG 3/4"C	3#10 1#10EG 3/4"C 3#10 1#10EG 3/4"C					X						X FAN R	M 213	30 20	ASD	N	7 (	CWP-03
CWP-04	CHILLED WATER PUMP	FAN ROOM 213	7 1/2		3 480	11.0	HN2-1	30/3	3#10   1#10EG   3/4"C	3#10 1#10EG 3/4"C					X						X FAN R	M 213	30 20	ASD	N	7 (	CWP-04
			1 1					1							1 1											<i>i</i>	

REFERENCE NOTES: 1. PROVIDE POWER OUTLET AS MEANS OF DISCONNECT FOR INTEGRAL CONDENSATE PUMP.

2. PROVIDE 3/4"C WITH PULL LINE FOR USE BY HVAC DIVISION FOR CONTROLS.

3. PROVIDE BRANCH CIRCUITS AND FOLLOW ROUTE OF HVAC PIPING. COORDINATE PENETRATIONS THROUGH WALL AND ROOF. 4. COORDINATE PENETRATIONS THROUGH WALL AND ROOF. MAINTAIN WATERTIGHT WARRANTIES FOR ALL BUILDING ENVELOPE SYSTEMS.

5. MANUAL STARTER IS MEANS OF DISCONNECT

LE-EQ1

HE+EQ1

PARTIAL BASEMENT PLAN - PART C - ELECTRICAL

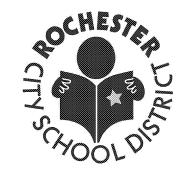
**ELECTRIC EQUIPMENT AND CONTROL SCHEDULE** 

6. FEED INDOOR UNIT WITH OUTDOOR UNIT CIRCUIT. 7. PROVIDE CB WITH MATCHING KAIC RATING, AND UL LISTED TO BE FULLY RATED WITH EXISTING PANELBOARD.

			LUMINAIR	RE SCHEDULE				
TYPE	DESCRIPTION	MFR. & CATALOG No.	LAMP	VOLTAGE/BALLAST	MOUNTING	UNIT WATTS	EFFICIENCY	REFERENCE NOTES
L9	4' SURFACE LED VAPORTIGHT FIXTURE	METALUX MODEL: 4VT2-LD4-4-DR-W-UNV-L 840-CD1-WL	LED 4000 LUMENS 47W	ELECTRONIC UNIVERSAL	SURFACE	56	104.7	COLD WEATHER RATED WHERE INSTALLED OUTSIDE

# **SWBR**

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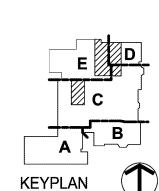


Every child is a work of art. Create a masterpiece.



Mechanical/Electrical Engineering Consultants M/E Project #: 160013.70 Rochester | Buffalo | Syracuse | Capital District ROCHESTER, NY 14604

DESCRIPTION



S.E.D. CONTROL NUMBERS

26-16-00-01-0-016-020

Drawn By:

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School 16 321 Post Avenue Rochester, NY 14619

SWBR Project Number 16158.00

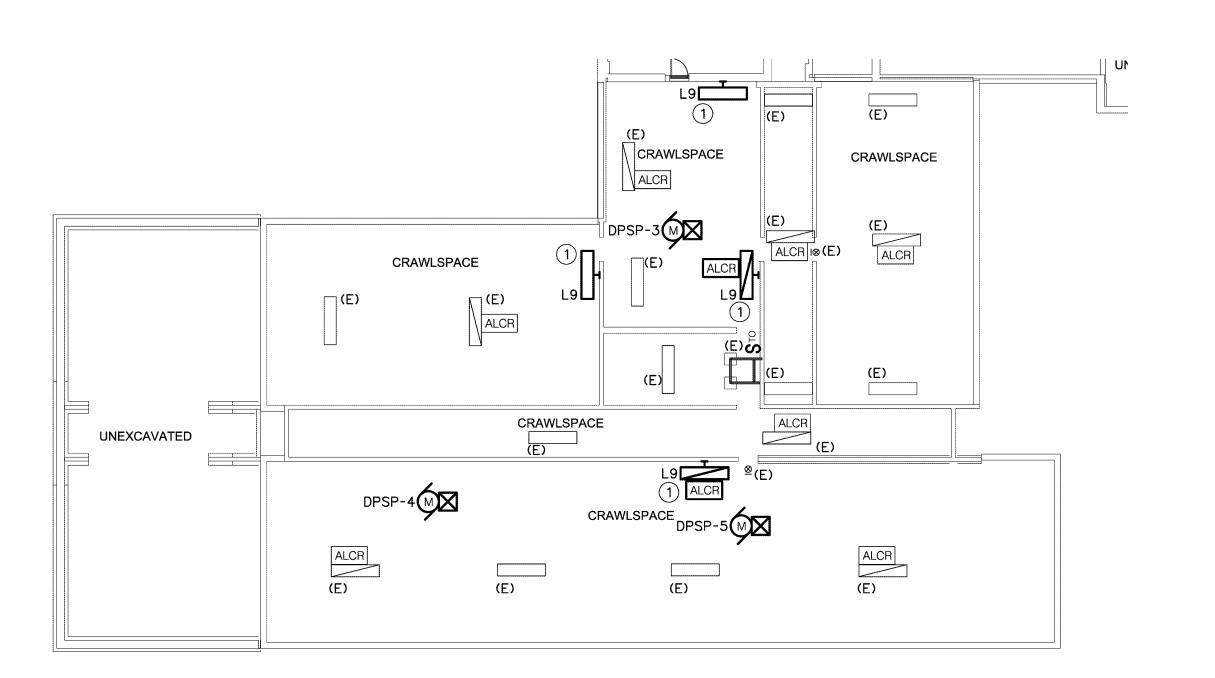
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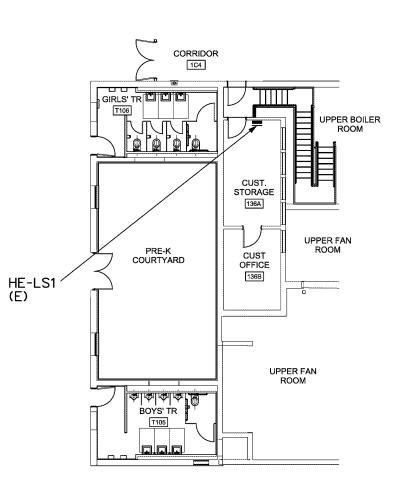
Rochester, NY 14610

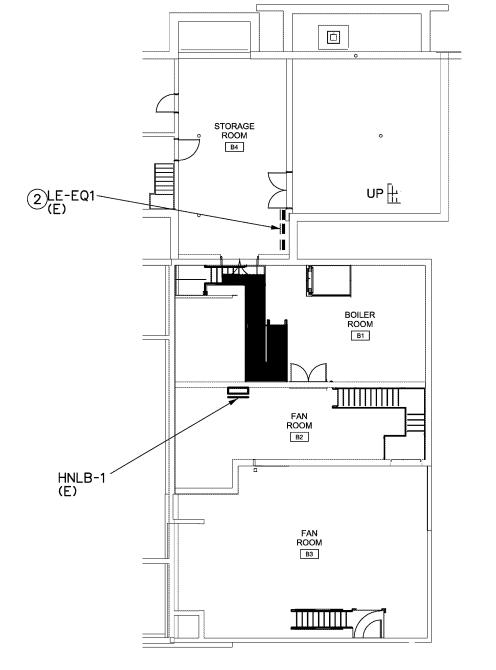
E-421.1 KITCHEN & GYM AIR CONDITIONING

**WORK - ELECTRICAL** 

May 6, 2020







# **GENERAL NOTES:**

- A. 277V NORMAL LIGHTING CIRCUITS AND HOME RUN FOR LIGHT FIXTURES IN THE CRAWL SPACE ARE FED FROM FROM PANEL HNLB-1 LOCATED IN FAN ROOM B2, UNLESS OTHERWISE NOTED. PROVIDE BRANCH CIRCUITING USING 2\*10, 1\*10EG, 3/4"C. RELABEL PANEL CIRCUIT DIRECTORY.
- 277V EMEGENCY LIGHTING CIRCUITS FOR LIGHT FIXTURES DESIGNATED AS EMERGENCY AND CIRCUITED VIA AN AUTOMATIC LIGHTING CONTROL
  RELAY (ALCR) ARE FED FROM PANEL HE-LS1 LOCATED IN CUST.
  STORAGE 136A, UNLESS OTHERWISE NOTED. PROVIDE BRANCH CIRCUIT
  USING 2\*10, 1\*10EG, 3/4"C. RELABEL PANEL CIRCUIT DIRECTORY. PROVIDE
  AN ALCR FOR FIXTURES CALLED FOR PROVIDE UNDERSTORMENT. SENSING CIRCUIT TO ALCR. TYPICAL OF ALL EMERGENCY LIGHT
- 277V UNSWITCHED EGRESS (NIGHT LIGHT) LIGHTING CIRCUITS AND HOME RUN FOR LIGHT FIXTURES DENOTED AS "NL" ARE FED FROM PANEL HE-LS1 LOCATED IN CUST. STORAGE 136A, UNLESS OTHERWISE NOTED. PROVIDE BRANCH CIRCUIT USING 2#10, 1#10EG, 3/4"C. RELABEL PANEL CIRCUIT DIRECTORY.
- PROVIDE POWER BRANCH CIRCUIT TO ALL LABELED EQUIPMENT; REFER TO ELECTRICAL EQUIPMENT AND CONTROL SCHEDULE FOR CIRCUITING INFORMATION PERTAINING TO PANEL DESIGNATION, CIRCUIT BREAKER SIZE, FEEDER SIZE AND SAFETY DEVICE TYPE AND LOCATION.

# **DRAWING NOTES:**

- PROVIDE 2\*10, 1\*10EG, 3/4"C BRANCH CIRCUITING TO CONNECT TO CIRCUITS CALLED FOR REUSE AND RECONNECT TO THE EXISTING DIGITAL 4- HOUR TIMER SWITCH.
- PROVIDE CB RELOCATIONS AND MODIFICATIONS TO EXISTING PANEL TO MAKE ROOM FOR NEW CB'S. STORE REMOVED CB'S AT THE PANEL. PROVIDE CB'S WITH MATCHING KAIC RATINGS, FULLY RATED AND UL LISTED FOR THE EXISTING ELECTRICAL EQUIPMENT. EXISTING MAKES ARE: PANEL LE-EQ1: 250A, 60A MCB, 208Y/120V, 14 KAIC, SIEMENS MODEL \*P2C90NB060FTS PANEL WITH TYPE BLH SERIES BRANCH CB'S.

CRAWL SPACE PLAN AREA A - ELECTRICAL



BASEMENT FLOOR PLAN AREA C - ELECTRICAL 1/16" = 1'-0"

	ECTRICAL SYMBOLS LIST MATERIALS AND METHODS		LUMINAIRES		POWER DISTRIBUTION AND CONTROL
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<b>S</b> <sup>3</sup> a,b,c	TOGGLE SWITCH, VOLTAGE AS INDICATED ON FIXTURE SCHEDULE, SUBSCRIPTS INDICATE TYPE:	□ □ O	LUMINAIRE. UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE, LOWER CASE LETTER INDICATES SWITCHING DESIGNATION.		208/120 VOLT PANELBOARD
	2 - TWO POLE SWITCH 3 - THREE WAY SWITCH		WALL MOUNTED LUMINAIRE. UPPER CASE	=	480/277 VOLT PANELBOARD
	4 - FOUR WAY SWITCH a,b,c - SWITCHING DESIGNATIONS NUMBER OF LETTERS EQUALS NO. OF GANGED		LETTERS INDICATE FIXTURE TYPE ON SCHEDULE, LOWER CASE LETTER INDICATES SWITCHING DESIGNATION.	×	MOTOR STARTER. REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE FOR SIZE AND TYPE.
	SWITCHES TO - DIGITAL 4-HOUR TIME OUT SWITCH		LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT		ELECTRICAL CONNECTION. REFER TO ELECTRIC
φ	DUPLEX RECEPTACLE, SUBSCRIPTS INDICATE TYPE:	ALCR	AUTOMATIC LOAD CONTROL RELAY	M	EQUIPMENT AND CONTROL SCHEDULE FOR DESCRIPTION. LETTERS AND NUMBERS REFER TO "ITEM DESIGNATION" ON THE SCHEDULE.
	OC - OVER COUNTER IG - ISOLATED GROUND GFI - GROUND FAULT CIRCUIT INTERRUPTER	图	WALL MOUNTED EMERGENCY LUMINAIRE WITH BATTERY PACK		
	UC - UNDER THE COUNTER WP - WEATHER PROOF	≅⊗	CEILING MOUNTED EXIT LUMINAIRE		
(E)	EXISTING TO REMAIN - INDICATES EXISTING ITEM SHALL REMAIN. MAINTAIN EXISTING ELECTRICAL CONNECTIONS UNLESS	₩ 🔯	WALL MOUNTED EXIT LUMINAIRE		
	OTHERWISE NOTED.				
(ER)	EXISTING TO BE RELOCATED - INDICATES EXISTING ITEM SHALL BE RELOCATED. DISCONNECT AND REMOVE, REINSTALL AT NEW LOCATION AND RECONNECT ITEM AS REQUIRED.				

			LUMINAIR	E SCHEDULE				
TYPE	DESCRIPTION	MFR. & CATALOG No.	LAMP	VOLTAGE/BALLAST	MOUNTING	UNIT WATTS	EFFICIENCY	REFERENCE NOTES
L9	4' SURFACE LED VAPORTIGHT FIXTURE	METALUX MODEL: 4VT2-LD4-4-DR-W-UNV-L 840-CD1-WL	LED 4000 LUMENS 47W	ELECTRONIC UNIVERSAL	SURFACE	56	104.7	COLD WEATHER RATED WHERE INSTALLED OUTSIDE

# **GENERAL NOTES:**

EXISTING TO BE REPLACED - INDICATES EXISTING ITEM SHALL BE REPLACED. RECONNECT TO EXISTING ELECTRICAL CONNECTIONS UNLESS OTHERWISE NOTED.

REFERENCE TO DRAWING NOTE

REFERENCE TO DEMOLITION NOTE

- 1. ALL DEVICES PROVIDED BY THE DIVISION [16][26] CONTRACTOR.
- 2. ITEM NUMBER INDICATES EQUIPMENT NUMBER
- 3. ALL DEVICES SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED. 4. PROVIDE OVERLOADS, SIZE AS REQUIRED, BY THE DIVISION [15][22/23] CONTRACTOR.
- 5. "AU" INDICATES CONTROL DEVICES IS LOCATED AT THE UNIT.
- 6. "NF" INDICATES NON-FUSED.
- 7. "IU" INDICATES INTEGRAL WITH UNIT.

	EQ	UIPMENT				POWER SOUP	RCE, PROTECTIO	ON & WIRING						NEMA	DEVICE,TY	PE AND CONTR	ROLS				
ITEM ID	NAME	ROOM LOCATION	HP	kVA PHASE	SYSTEM VOLTS AMPS PANEL OF CONTROL CENTER	CIRCUIT BREAK ER or "FU" FOR FUSE	ER WIRING FROM TO CONTROL UNIT	POWER WIRING FR CONTROL UNIT T EQUIPMENT	OJ SO SIZE STARTER	NEMA TYPE ANUAL MOTOR STARTER ANUAL MOTOR ANUAL MOTOR	NETIC STARTER NATION MAGNETIC STARTER	INATION REDUCED TAGE STARTER SINATION STARTER P/FUSE (F) SIZE USTABLE SPEED	USTABLE SPEED DRIVE WITH BYPASS USTABLE SPEED DRIVE REDUNDANT ASD	CAGED CONTROL I FURNISHED BY OTHERS OUPLEX PUMP OTHERS OTHERS OTHERS RE ALARM FAN DOWN REQUIRED	LY DUCT SMOKE CTOR W/ REMOTE EST STATION JRN DUCT SMOKE CTOR W/ REMOTE EST, STATION	ECTION; CONNECT ONTROL XFMR BY OTHERS HERMOSTAT CONNECTION	ORIZED DAMPER CONNECTION START/STOP USHBUTTONS	AND/OFF/AUTO ECTOR SWITCH NTROL DEVICE LOCATION	SAFE	TY SWITCH	ITEM ID
						PHASE	GROUNDCONDUIT	T PHASE GROUND CO	NDUIT E	STAF.	MAG	COMB COMB MF ADJ	ADJ ADJ WITH	PAGE ON THE SHUT SHUT SHUT SHUT SHUT SHUT SHUT SHUT	SUPF DETEI T NETU	CONN TO CO	TOM	-  ¥∃   OO	SWITCH FUSE AMPS SIZE	LOC. WEATHER REI	ES
DPSP-3 CF	RAWL SPACE DUPLEX SUMP PUMP	CRAWL SPACE	1/2	1	120 LE-EQ1	25/1 2#10				X X X X X X X X X X X X X X X X X X X	MAG	COMB COMB MI	ADJ ADJ WITH	A PAGE OF SHARE SH	SUPF DETER T RETU	CONN TO CONN AQUAS	TOM	- \ \(\frac{1}{2}\) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	SWITCH FUSE SIZE	LOC. WEATHER REI	
DPSP-4 CF	RAWL SPACE DUPLEX SUMP PUMP RAWL SPACE DUPLEX SUMP PUMP RAWL SPACE DUPLEX SUMP PUMP	CRAWL SPACE CRAWL SPACE CRAWL SPACE	1/2 1/2	1 1	120 LE-EQ1 120 LE-EQ1 120 LE-EQ1	25/1 2#10 25/1 2#10 25/1 2#10 25/1 2#10	1#12 3/4"C 1#12 3/4"C 1#12 3/4"C	2#10 1#12 3		X X X X X X X X X X X X X X X X X X X	MAG	COMB COMB MF	ADJ ADJ WITH	X X N N N N N N N N N N N N N N N N N N	SUPF DETEI DETEI T	CONN TO CO	TOM	- Fig 8	SWITCH FUSE AMPS SIZE		ES DPSF DPSF DPSF DPSF

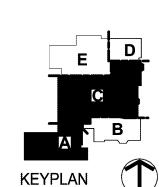
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REFERENCE NOTES:

1. PROVIDE DAY AUTOMATION DDC MONITORING POINT TO CONNECT TO AUXILIARY CONTACTS ON EACH CONTROLLER AND REPORT ALARM TO MAINTENACE.

2. MANUAL MOTOR STARTER PERFORMS MEANS OF DISCONNECT AND OVERCURRENT PROTECTION.

**ELECTRIC EQUIPMENT AND CONTROL SCHEDULE** 



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-OCHESTE

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Create a masterpiece.

**ENGINEERING** 

Mechanical/Electrical Engineering Consultants M/E Project #: 160013.70

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ROCHESTER, NY 14604

S.E.D. CONTROL NUMBERS

26-16-00-01-0-016-020

RTV, JWP Drawn By:

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**Rochester Joint Schools** Construction Board 70 Carlson Street, Suite 200

Rochester, NY 14610

CRAWL SPACE SUMP PUMP WORK -**ELECTRICAL** 

May 6, 2020