
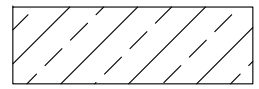
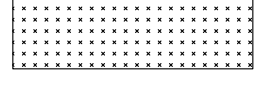

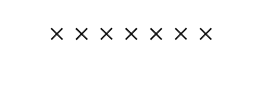
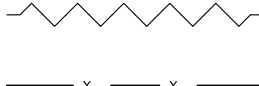
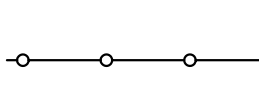





Mark	Description	Date
	ISSUED FOR BID	11.29.11
	ADDENDUM 1	12.29.11
	ADDENDUM 2	01.13.12

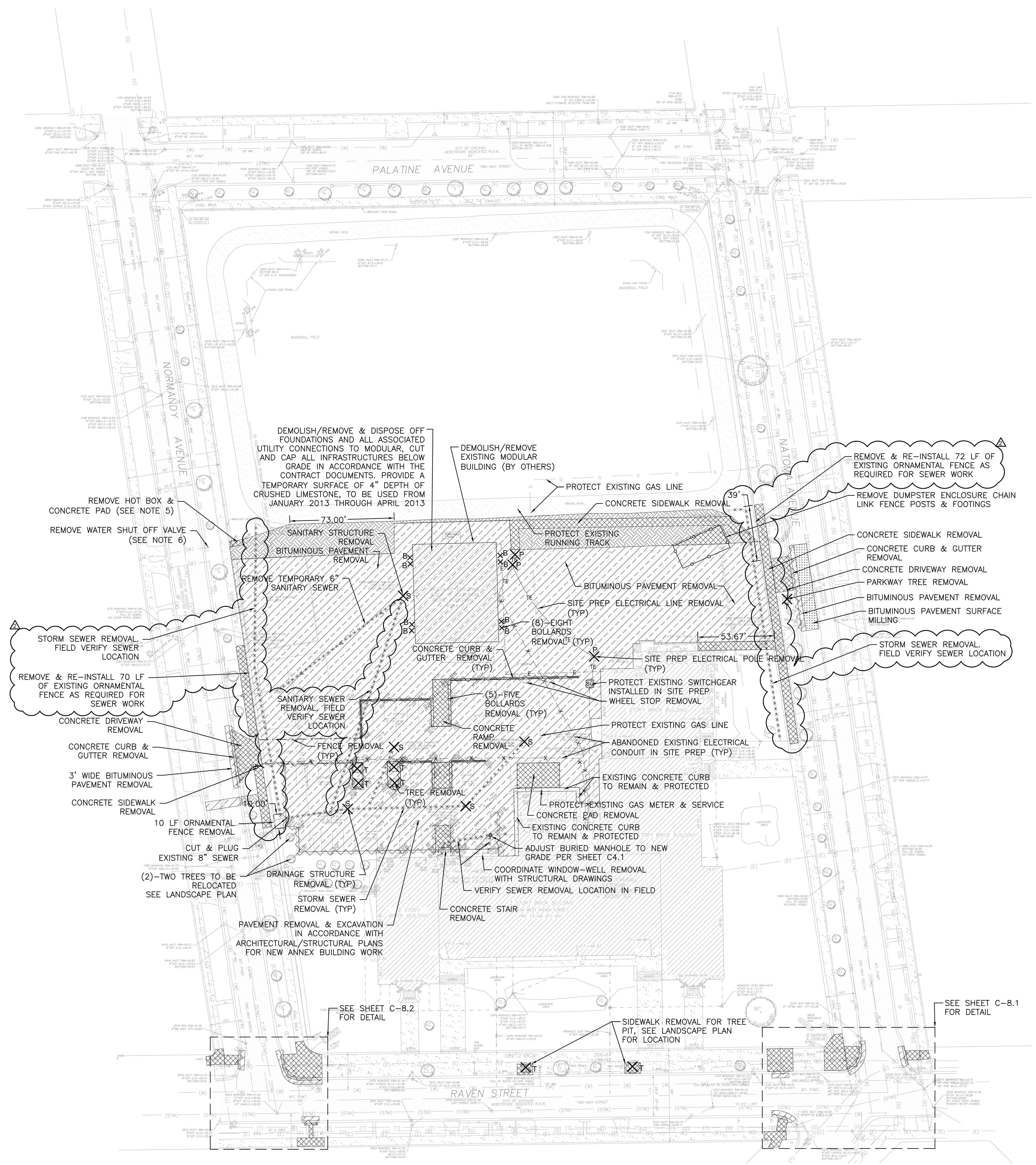
PBC Project Name: William J. Onahan Elementary Annex  
PBC Contract No. 05550  
Bauer Latoza Studio Project No.: 11-0720  
Title

**DEMOLITION PLAN**

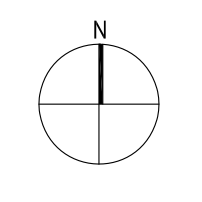
**LEGEND**

-  CONCRETE SIDEWALK/PAVEMENT REMOVAL-FULL DEPTH (6,810 SF)
-  BITUMINOUS PAVEMENT REMOVAL-FULL DEPTH (57,180 SF)
-  BITUMINOUS PAVEMENT SURFACE MILLING-3" (544 SF)
-  CLEAR & GRUB/ EXCAVATION
-  SEWER REMOVAL (890 LF)
-  CURB & GUTTER REMOVAL (940 LF)
-  ORNAMENTAL FENCE REMOVAL (370 LF)
-  CHAIN LINK FENCE REMOVAL (106 LF)
-  S, T, P STRUCTURE/TREE/POLE REMOVAL
-  BOLLARD REMOVAL

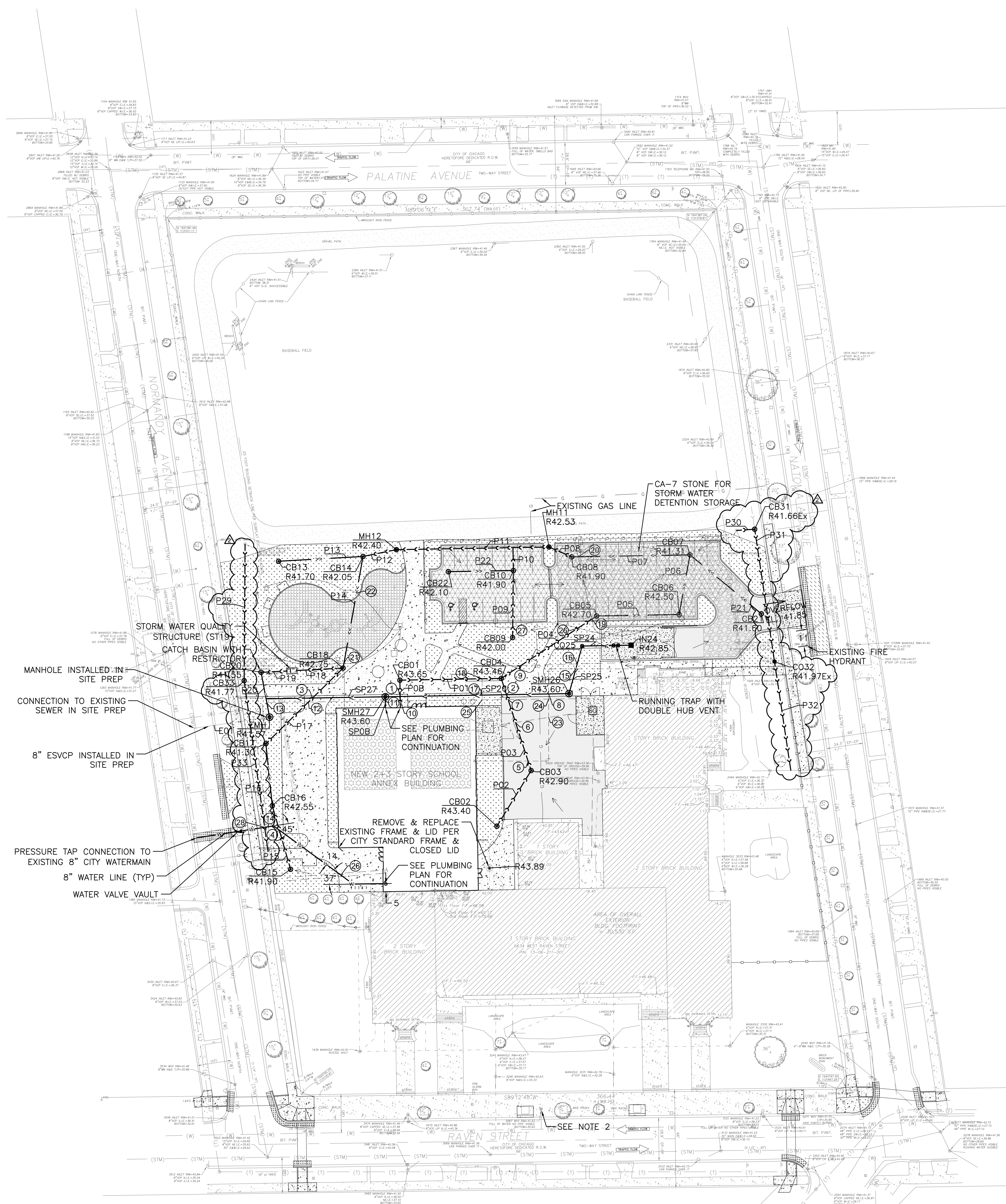
- NOTES**
- DEMOLITION FOR ALL WORK SHALL BE CARRIED OUT PER ARCHITECTURAL PHASING PLAN.
  - SEE LANDSCAPE SHEET L-1.0 FOR TREE PROTECTION PLAN & DETAIL.
  - SALVAGE & REUSE ADA PARKING SIGNS ON SITE.
  - DURING CONSTRUCTION COORDINATE WITH BUILDING ENGINEER FOR THE LOCATION OF EXISTING DUMPSTER STORAGE.
  - EXISTING WATER SERVICE TO HOT BOX SHOULD BE SHUT DOWN THROUGH EXISTING SHUTOFF VALVE LOCATED ON NORMANDY AVE BEFORE REMOVING MODULAR BUILDING AND HOT BOX.
  - AFTER TERMINATION OF EXISTING 4" SERVICE BY DEPARTMENT OF WATER MANAGEMENT, REMOVE WATER SHUT OFF VALVE ON NORMANDY AVE.



**1 DEMOLITION PLAN**  
C-1.1 SCALE: 1" = 30'







**LEGEND**

- CATCH BASIN, W/PERFORATED LID  
SEE DETAIL 1 & 2, SHEET C-7.1
- 3' DIA. MANHOLE (MH/SMH)  
SEE DETAIL 4, SHEET C-7.1
- 2' DIA. INLET (IN) WITH RUNNING TRAP  
SEE DETAIL 8, SHEET C-7.1
- >--- STORM SEWER
- >--- PVC PERFORATED UNDERDRAIN, ASTM  
D3034, SDR 35
- >--- SANITARY SEWER
- ← FLOW DIRECTION
- ↔ HIGH POINT
- ▭ STORM WATER QUALITY STRUCTURE  
SEE DETAIL SHEET C-7.7
- ▨ CA-7 AGGREGATE DETENTION
- CB01 R42.50 CATCH BASIN NUMBER  
RIM ELEVATION
- MH02 R42.50 MANHOLE NUMBER  
RIM ELEVATION
- SMH03 R42.50 SANITARY MANHOLE NUMBER  
RIM ELEVATION
- P02 PIPE NUMBER
- SP02 SANITARY PIPE NUMBER
- EMH EXISTING MANHOLE
- ① UTILITY CROSSING NUMBER

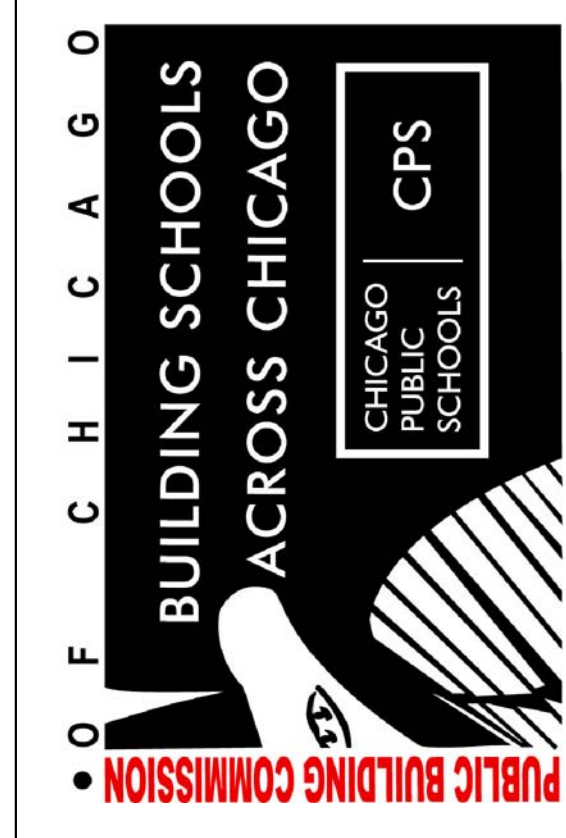
**NOTES:**

1. SEE SHEET C-4.2 FOR NOTES, STRUCTURE & PIPE SCHEDULE, STRUCTURE LOCATION & UTILITY CROSSING CLEARANCE INFORMATION.
2. AFTER CONSTRUCTING NEW 8" WATER SERVICE ON NORMANDY AVE, KEEP 4" EXISTING WATER SERVICES FROM RAVEN STREET TO EXISTING BUILDING UNTIL FURTHER NOTICE FROM DEPARTMENT OF WATER MANAGEMENT (DWM). AFTER EXISTING 4" WATER SERVICE CUT OFF ON RAVEN STREET BY DWM, REMOVE WATER VALVE VAULT FROM THE SIDEWALK & RESTORE SIDEWALK.
3. AFTER EXISTING 4" WATER SERVICE CUT OFF ON RAVEN STREET BY DWM RETURN EXISTING WATER METER TO DWM.
4. AS PER GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT GROUNDWATER WAS NOT ENCOUNTERED IN THE BORINGS.
5. PROPOSED WATER LINE SHALL BE INSTALLED AT A DEPTH OF MINIMUM 5'-6" TO TOP OF PIPE.

**STORMWATER DETENTION REQUIREMENTS**

TOTAL SITE AREA: 65,448 SF (1.50 AC)  
 TOTAL DETENTION REQUIRED: 12,061 CU. FT.  
 TOTAL DETENTION PROVIDED IN UNDERGROUND CA-7 STONE : 12,077 CU. FT.  
 TOTAL PROVIDED: 12,077 CU. FT. > 12,061 CU. FT.  
 100 YEAR HWL = 41.05 CCD  
 REFER TO STORMWATER SPREADSHEET COMPUTATIONS FOR DETAILED INFORMATION

**DRAINAGE & UTILITY PLAN**  
 SCALE: 1" = 30'



**WILLIAM J. ONAHAN ELEMENTARY  
 SCHOOL ANNEX**  
 6634 W. RAVEN STREET  
 CHICAGO, IL 60631  
 CHICAGO PUBLIC SCHOOLS  
 CITY OF CHICAGO, MAYOR RAHM EMANUEL

**SMNG-A**  
 Schroeder Murchie Niemiec Gazda-Auskalis  
 Architects Ltd.  
 Managing Architect  
 2241 South Wolcott Avenue  
 Chicago, Illinois 60605  
 Phone: 312.986.1000 / Fax: 312.986.5805  
**BauerLatoza**  
 STUDIO  
 Architect of Record

- Matrix Engineering corp.**  
Chicago, Illinois  
Structural Engineer
- Infrastructure Engineering**  
Chicago, Illinois  
Civil Engineer
- Henneman Engineering**  
Chicago, Illinois  
E/FA Engineer
- Dynacept**  
Des Plaines, Illinois  
M/P/FP Engineer
- Building Momentum Group**  
Chicago, Illinois  
Acoustic Consultant

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PBC Project Name: William J. Onahan Elementary Annex  
 PBC Contract No. 05550  
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**DRAINAGE & UTILITY PLAN**

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**NOTES**

- SEE SURVEY UTILITIES SHEETS FOR THE TYPE, SIZE AND INVERT ELEVATIONS OF EXISTING SEWERS/SEWER STRUCTURES. THE CONTRACTOR SHALL FIELD VERIFY AND ENSURE THAT CONNECTION ELEVATIONS OF ALL THE PROPOSED STORM AND SANITARY SEWERS TO THE EXISTING SEWERS ARE FEASIBLE BEFORE STARTING THE CONSTRUCTION OF PROPOSED SEWERS. IN CASE OF ANY PROBLEMS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY BEFORE STARTING THE CONSTRUCTION OF SEWERS. SEWER CONSTRUCTION IS RECOMMENDED AHEAD OF OTHER UTILITIES.
- ALL PIPE LENGTHS ARE CALCULATED FROM CENTER TO CENTER OF STRUCTURE OR PIPE AND ADJUSTED TO FULL FOOT.
- ALL CATCH BASINS AND INLETS SHALL HAVE PERFORATED LIDS, UNLESS OTHERWISE NOTED ON THE PLANS. THE CATCH BASINS SHALL BE PROVIDED WITH HALF TRAP IF CALLED OUT IN THE DRAINAGE SCHEDULE SHEET C-4.2
- ALL MANHOLES SHALL HAVE CLOSED LIDS UNLESS OTHERWISE NOTED ON THE PLANS.
- FOR CATCH BASIN WITH VORTEX RESTRICTOR DETAILS, SEE DETAIL 2 SHEET C-7.1
- COORDINATES FOR ALL DRAINAGE STRUCTURES REFER TO THE CENTER OF STRUCTURE.
- FOR UTILITY TRENCHING, PROVIDE PAVEMENT PATCHING AS PER DETAILS 5 & 6 ON SHEET C-7.3
- RECONSTRUCT SIDEWALK AND CURB & GUTTER OVER UTILITY TRENCHING, TO MATCH WITH EXISTING.
- THE CONTRACTOR SHALL ADJUST/RECONSTRUCT ALL THE EXISTING UTILITY STRUCTURES AS SHOWN TO REMAIN TO NEW GRADES. UTILITY STRUCTURES OWNED BY CITY/UTILITY AGENCIES SHALL ALSO BE ADJUSTED/RECONSTRUCTED TO NEW GRADES BY THE CONTRACTOR IN COORDINATION WITH THE CITY/UTILITY AGENCIES.
- THE CONTRACTOR SHALL PROVIDE UNDERDRAINS PER DETAIL SHEET C-7.2.
- FOR WATER QUALITY STRUCTURE DETAILS, SEE SHEETS C-7.7
- SEE ELECTRICAL PLANS FOR PROPOSED ELECTRICAL WORK.

**GENERAL REQUIREMENTS FOR SEWER CONSTRUCTION**

- PRIOR TO START OF CONSTRUCTION, A PERMIT IS REQUIRED FROM THE SEWER SECTION OF CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT (DWM) FOR ANY UNDERGROUND SEWER WORK, INCLUDING ADJUSTMENT OF SEWER STRUCTURES AND REMOVAL/REPLACEMENT OF FRAMES AND LIDS. PERMIT MUST BE OBTAINED BY DRAINLAYER CURRENTLY LICENSED FROM CDOWM.
- THE CONTRACTOR IS RESPONSIBLE FOR THE ADEQUATE PROTECTION OF THE EXISTING SEWERS, DRAIN CONNECTIONS, SEWER STRUCTURES, AND BENCH MONUMENTS DURING CONSTRUCTION OPERATIONS AND USE OF HEAVY EQUIPMENT IN THE LIMITS OF THE PROJECT.
- UPON WORK COMPLETION, THE CONTRACTOR SHALL PROVIDE TO DWM(SEWER SECTION), FOR REVIEW AND ACCEPTANCE, A DVD OF THE TELEVISED PROPOSED SEWER CONNECTION TO THE CITY SEWER MAINS.
- IN LOCATIONS WHERE THE MAIN SEWER IS NOT BEING REPLACED AND THE EXISTING DRAINAGE FACILITIES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RESTORE AND REPLACE THE DAMAGED FACILITIES AT HIS/HER EXPENSE TO THE SATISFACTION OF DWM(SEWER SECTION). THE SEWER FLOW SHOULD BE MAINTAINED AT ALL TIMES.
- IN CASE OF ANY DAMAGE TO THE CITY'S SEWER SYSTEM, PRIVATE AND PUBLIC DRAIN CONNECTIONS, AND/OR BENCH MONUMENTS, THE CONTRACTOR SHALL CONTACT DWM(SEWER SECTION) IMMEDIATELY AT PHONE NUMBER 312/747-8117 OR 312/747-7893. THE CONTRACTOR SHALL, AT HIS/HER COST, REPLACE THE AFFECTED SEWERS, DRAIN CONNECTIONS, SEWER STRUCTURES AND/OR BENCH MONUMENTS AS NECESSARY. THE SEWER FLOW MUST BE MAINTAINED AT ALL TIMES.
- A COPY OF AS-BUILT PLANS MUST BE SUBMITTED FOR APPROVAL TO DWM SEWER INSPECTOR WITHIN 14 DAYS AFTER COMPLETION OF CONSTRUCTION. AS-BUILT DRAWINGS MUST BE SEALED BY THE ENGINEER OR AOR WHO PREPARED THE DESIGN PLANS. ANY DEVIATION FROM THE APPROVED PLANS MUST BE BROUGHT TO THE ATTENTION OF THE DWM SEWER INSPECTOR. ONCE APPROVED, THE AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE DOB AT THE FOLLOWING ADDRESS WITHIN 30 DAYS.

DEPARTMENT OF BUILDINGS  
CITY HALL, ROOM 906  
121 N. LASALLE STREET  
CHICAGO, ILLINOIS 60602

**GENERAL REQUIREMENTS FOR WATER MAIN CONSTRUCTION**

- ALL BACKFILL MATERIAL SHALL BE CA-16 STONE OR APPROVED EQUAL AND SHALL BE TAMPED IN ACCORDANCE WITH THE SPECIFICATIONS. SEE SHEET C-7.3 FOR TRENCH DETAILS.
- A MINIMUM OF 6-INCH THICK BEDDING MATERIAL (CA-16 STONE UP TO 16" DIA. PIPE AND CA-11 STONE FOR LARGER THAN 16-INCH DIA. PIPES) SHALL BE PROVIDED FOR THE WATER MAINS.
- ALL THE WORK PERFORMED SHOULD BE UNDER THE INSPECTION OF DWM (WATER SECTION).
- ALL THE WORK PERFORMED ON JOINTING WATER PIPE AND FITTINGS MUST BE DONE BY A LICENSED PLUMBER, LICENSED IN THE STATE OF ILLINOIS OR THE CITY OF CHICAGO.
- THE CONTRACTOR SHOULD OBTAIN PLUMBING PERMIT BEFORE STARTING THE WORK FROM DWM, PLUMBING PERMIT AND PLAN SECTION, CITY HALL, ROOM 906, 121 N. LASALLE STREET, CHICAGO, ILLINOIS 60602.
- DWM PERSONNEL WILL OPERATE THE EXISTING VALVES IN THE WATER DISTRIBUTION SYSTEM. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE PERMITTED TO OPERATE THE EXISTING VALVES.
- DWM PERSONNEL WILL MAKE ALL NECESSARY CONNECTIONS OF THE NEW 8" SERVICE PIPE TO THE EXISTING WATER DISTRIBUTION SYSTEM. THE CONTRACTOR SHALL PERFORM ALL THE NECESSARY EXCAVATION, PUMP OUT THE WATER, BACKFILLING, PAVEMENT RESTORATION AND PROVIDE ALL THE DUCTILE IRON WATER PIPE AND FITTINGS NECESSARY FOR THE CONNECTIONS.

**PIPE SCHEDULE**

PIPE NO	FROM	TO	SIZE (IN)	SLOPE (%)	LENGTH (FEET)	TYPE	INVERT EL		REMARKS
							UPSTREAM	DOWNSTREAM	
P0B	BLD	CB01	8	4.00	19	DIP	39.08	38.32	CB01 - ADA ACCESSIBLE LID
P01	CB01	CB04	10	1.00	68	DIP	38.32	37.64	
P02	CB02	CB03	6	0.80	44	ESVCP	39.80	39.45	
P03	CB03	CB04	8	0.54	65	DIP	39.45	39.10	
P04	CB04	CB05	12	0.50	77	ESVCP	37.64	37.26	
P05	CB05	CB06	12	0.32	56	PVC	37.26	37.08	PERFORATED PIPE
P06	CB06	CB07	12	0.32	41	PVC	34.34	34.21	PERFORATED PIPE
P07	CB07	CB08	12	0.32	80	PVC	34.21	33.95	PERFORATED PIPE
P08	CB08	MH11	12	0.32	17	ESVCP	33.95	33.90	
P09	CB09	P10	6	2.00	45	ESVCP	37.23	36.33	
P10	CB10	P11	6	4.00	15	ESVCP	36.33	35.73	
P11	MH11	MH12	12	0.32	103	ESVCP	33.90	33.57	
P12	MH12	CB14	12	0.32	23	ESVCP	33.57	33.49	
P13	CB13	CB14	6	0.80	57	PVC	37.95	37.49	PERFORATED PIPE
P14	CB14	CB18	12	0.32	76	PVC	33.49	33.25	PERFORATED PIPE
P15	CB15	CB16	6	0.80	45	DIP	34.35	33.99	
P16	CB16	CB17	8	0.54	42	PVC	33.99	33.76	PERFORATED PIPE
P17	CB17	CB18	8	0.70	73	ESVCP	33.76	33.25	
P18	CB18	ST19	12	0.32	31	ESVCP	33.25	33.15	
P19	ST19	CB20	12	0.32	17	ESVCP	33.15	33.10	
P20	CB20	EMH	12	0.32	31	ESVCP	33.10	33.00	
P21	CB21	CB07	12	0.32	62	PVC	34.40	34.21	PERFORATED PIPE
P22	CB22	CB30	8	0.54	41	PVC	38.50	37.33	PERFORATED PIPE
P29	EX CB	CB33	6	0.79	92	DIP	39.75	39.03	
P30	EX CB	CB31	6	5.00	12	DIP	39.77	39.17	
P31	CB31	CO32	6	1.00	90	DIP	38.39	37.49	
P32	CO32	EX-SWR	6	1.00	74	DIP	37.49	36.75	
P33	CB33	EX-SWR	8	0.54	116	DIP	39.03	38.40	
SP0B	BLD	SMH27	6	6.25	8	ESVCP	37.46	36.96	
SP24	IN24	CO25	6	0.80	33	ESVCP	38.48	38.22	
SP25	CO25	SMH26	6	0.80	33	DIP	38.22	37.95	
SP26	SMH26	SMH27	6	0.80	124	DIP	37.95	36.96	
SP27	SMH27	P17	8	2.00	80	ESVCP	36.96	35.36	
E01	EMH	EX CITY SWER	8	1.00	51	ESVCP	32.50	31.99	COMBINED SEWER INSTALLED IN SITE PREP

**STRUCTURE SCHEDULE**

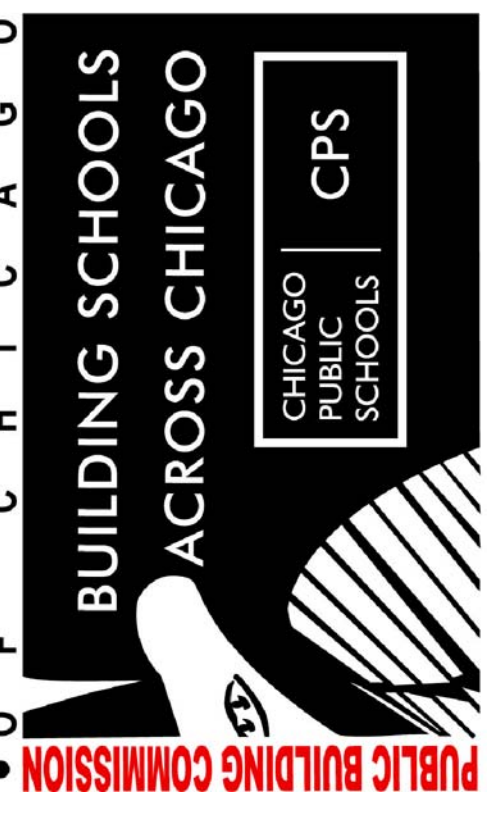
STRUCTURE NUMBER	TYPE	DIA. (FEET)	RIM EL.	INVERT EL.				REMARKS
				E	W	N	S	
CB01	CB	4	43.65	38.32			38.32	ADA ACCESSIBLE OPEN LID
CB02	CB	4	43.40			39.80		
CB03	CB	4	42.90			39.44	39.44	
CB04	CB	4	43.46	37.64	37.64		39.10	
CB05	CB	4	42.70	37.26	37.26			CATCHBASIN WITH CLOSED LID
CB06	CB	4	42.50		37.08	34.34		CATCHBASIN WITH CLOSED LID
CB07	CB	4	41.31	34.21	34.21		34.21	
CB08	CB	4	41.90	33.95	33.95			
CB09	CB	4	42.00			37.23		
CB10	CB	4	41.90		37.33	36.33	36.33	
MH11	MH	3	42.53	33.90	33.90			
MH12	MH	3	42.40	33.57	33.57			
CB13	CB	4	41.70	37.95				
CB14	CB	4	42.05	33.49	37.49		33.49	
CB15	CB	4	41.90			34.35		
CB16	CB	4	42.55			33.99	33.99	
CB17	CB	4	41.30			33.76	33.76	
CB18	CB	5	42.75		33.25	33.25	33.25	5' DIA. CATCHBASIN
ST19	STORM TRAP	7'-4" X 4'-4"	42.05	33.15	33.15			
CB20	CB	4	41.55	33.10			33.10	CB WITH HALF TRAP AND 4" VORTEX RESTRICTOR, SEE DETAIL SHEET C-7.1 (NOTE: INVERT ELEVATION SHOWN IN THE TABLE IS THE UPPER INVERT OF HALF-TRAP. ELEVATION AT OUTLET OF CB IS 1.00' LOWER THAN ELEVATION SHOWN IN THE TABLE)
CB21	CB	3	41.60		34.40			
CB22	CB	4	42.10	37.57				
CB31	CB	3	41.66		39.17	EX	38.39	CATCHBASIN WITH CLOSED LID, HALF-TRAP, FLAT SLAB TOP
CO32	CLEANOUT		41.97			37.49	37.49	CAST IRON CLEANOUT WITH COUNTER SUNK LID
CB33	CB	3	41.77			39.03	39.03	CATCHBASIN WITH CLOSED LID, HALF-TRAP, FLAT SLAB TOP
IN24	IN	3	42.85		38.48			OPEN LID
CO25	CLEANOUT		42.97	38.22			38.22	CAST IRON CLEANOUT WITH COUNTER SUNK LID
SMH26	MH	3	43.60		37.95	37.95		
SMH27	MH	3	43.60	36.96			36.96	
EMH	MH	3	41.57		32.50	33.00		MAHOLE INSTALLED IN SITE PREP

**UTILITY CROSSING CLEARANCE TABLE**

CROSSING NUMBER	TYPE	BOTTOM ELEVATION	TYPE	TOP ELEVATION	CLEARANCE
1	SEWER	38.76	SEWER	37.54	1.22
2	SEWER	39.16	SEWER	38.18	0.98
3	SEWER	36.00	SEWER	34.12	1.88
4	WATER	35.63	SEWER	34.63	1.00
5	SEWER	39.40	WATER	37.45	1.95
6	SEWER	39.25	ELECTRIC	38.25	1.00
7	SEWER	39.18	ELECTRIC	38.18	1.00
8	SEWER	37.84	WATER	36.34	1.50
9	ELECTRIC	39.32	SEWER	38.56	0.76
10	ELECTRIC	39.94	SEWER	39.59	0.35
11	ELECTRIC	39.84	SEWER	37.71	2.13
12	ELECTRIC	38.64	SEWER	34.15	4.49
13	ELECTRIC	37.71	SEWER	34.37	3.34
14	ELECTRIC	37.54	WATER	36.00	1.54
15	SEWER	38.10	WATER	36.50	1.60
16	ELECTRIC	39.54	SEWER	38.60	0.94
17	ELECTRIC	39.74	SEWER	37.98	1.76
18	ELECTRIC	39.54	SEWER	38.59	0.95
19	ELECTRIC	39.07	SEWER	38.26	0.81
20	ELECTRIC	37.82	SEWER	35.95	1.87
21	ELECTRIC	39.22	SEWER	34.25	4.97
22	ELECTRIC	38.97	SEWER	34.41	4.56
23	ELECTRIC	39.44	WATER	37.90	1.54
24	ELECTRIC	39.59	WATER	38.05	1.54
25	ELECTRIC	39.74	ELECTRIC	39.24	0.50
26	ELECTRIC	39.40	SEWER	38.33	1.07
27	ELECTRIC	39.25	SEWER	37.69	1.56
28	SEWER	38.48	WATER	36.00	2.48

**COORDINATES OF STRUCTURES**

STRUCTURE	COORDINATE (Easting, Northing)
CB01	E 1131167.2 N 1941071.3
CB02	E 1131232.5 N 1940973.1
CB03	E 1131255.5 N 1941010.5
CB04	E 1131235.4 N 1941072.5
CB05	E 1131299.6 N 1941114.6
CB06	E 1131355.1 N 1941115.5
CB07	E 1131362.4 N 1941155.7
CB08	E 1131282.9 N 1941154.3
CB09	E 1131243.1 N 1941100.0
CB10	E 1131243.6 N 1941145.1
MH11	E 1131267.6 N 1941160.9
MH12	E 1131164.9 N 1941159.2
CB13	E 1131085.6 N 1941151.4
CB14	E 1131142.4 N 1941154.6
CB15	E 1131093.7 N 1940944.1
CB16	E 1131081.4 N 1940986.8
CB17	E 1131077.1 N 1941028.6
CB18	E 1131129.0 N 1941079.5
CB20	E 1131073.8 N 1941026.6
CB21	E 1131410.4 N 1941116.0
CB22	E 1131243.6 N 1941145.1
CB31	VERIFY IN FIELD
CO32	E 1131419.3 N 1941083.9
CB33	E 1131062.4 N 1941071.0
IN24	E 1131322.8 N 1941094.9
CO25	E 1131289.8 N 1941094.3
SMH26	E 1131281.0 N 1941062.3
SMH27	E 1131157.4 N 1941060.2



**WILLIAM J. ONAHAN ELEMENTARY SCHOOL ANNEX**  
6634 W. RAVEN STREET  
CHICAGO, IL 60631  
CHICAGO PUBLIC SCHOOLS  
CITY OF CHICAGO, MAYOR RAHM EMANUEL

**SMNG-A**  
Schroeder Murchie Niemiec Gazzda-Auskaitis Architects Ltd.  
Managing Architect

2241 South Wolcott Avenue  
Chicago, Illinois 60605  
Phone: 312.986.1000 Fax: 312.986.5085  
**BauerLatoza** STUDIO  
Architect of Record

**Matrix Engineering corp.**  
Chicago, Illinois  
Structural Engineer

**Infrastructure Engineering**  
Chicago, Illinois  
Civil Engineer

**Henneman Engineering**  
Chicago, Illinois  
E/FA Engineer

**Dynacept**  
Des Plaines, Illinois  
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Title  
**DRAINAGE & UTILITY NOTES AND SCHEDULE**

Sheet