ADDENDUM

Public Building Commission of Chicago | Richard J. Daley Center | 50 West Washington Street, Room 200 | Chicago, Illinois 60602 | (312) 744-3090 | pbcchicago.com

ADDENDUM NO.: **03**

PROJECT NAME: **Skinner West Elementary School Annex**

PROJECT NO.: **05045**

CONTRACT NO.: **C1579**

DATE OF ISSUE: **August 1, 2017**

NOTICE OF CHANGES, MODIFICATIONS, OR CLARIFICATIONS TO CONTRACT DOCUMENTS

The following changes, modifications, or clarifications are hereby incorporated and made an integral part of the Contract Documents. Unless clearly expressed otherwise by this Addendum, all terms and conditions defined in the original Contract Documents shall continue in full force and effect and shall have the same meaning in this Addendum. Issued Addenda represent responses/clarifications to various inquiries. Contractors shall be responsible for including all associated labor/material costs in its bid. Drawings/specifications corresponding to inquiry responses will be issued with the Issue for Construction Documents, upon issuance of building permit.

ITEM NO. 1: **CHANGE TO KEY DATES**
None.

ITEM NO. 2: **REVISIONS TO BOOK 1 – PBC INSTRUCTIONS TO BIDDERS**
None.

ITEM NO. 3: **REVISIONS TO BOOK 2 – PBC STANDARD TERMS AND CONDITIONS**
None.

ITEM NO. 4: **REVISIONS TO BOOK 3 – TECHNICAL SPECIFICATIONS**
None.

ITEM NO. 5: **REVISIONS TO DRAWINGS**

Change 1 Sheet C2.0 **ADDED:** Removal of Existing 6-inch Storm Outlet Sewer
Change 2 Sheet C5.0 **ADDED:** MH-1 at 12-inch x 12-inch Connection
Change 3 Sheet C5.0 **ADDED:** MH-2 StormTrap Access Manhole with Open Lid
Change 4 Sheet C5.0 **ADDED:** Call-out for Bioinfiltration System
Change 5 Sheet C5.0 **ADDED:** Utility Note No. 4
Change 6 Sheet C5.0 **ADDED:** Storm Connection from Existing Roof Drain to Proposed Storm on East Side of Existing Building
Change 7 Sheet C5.0 **REVISED:** Outlet Sewer to 6-inch at 1.0% Slope
Change 8 Sheet C5.0 **REVISED:** Diameter Restrictor Plate
Change 9 Sheet C5.0 **REVISED:** Call-outs for Utility Trench Detail
Change 10 Sheet C7.1 **REVISED** Detail 2; **REMOVED** Detail 4 and Revised Detail Numbers / References Accordingly
Change 11 Sheet C7.2 **REVISED** Detail 1 to Eliminate Reference to Vortex Restrictor
Change 12 Sheet C8.0 **ADDED** MH-1 at 12-inch x 12-inch Connection
Change 13 Sheet C8.0 **ADDED** MH-2 StormTrap Access Manhole with Open Lid
Change 14 Sheet C8.0 **ADDED** Call-out for Bioinfiltration System
Change 15 Sheet C8.0 **ADDED** Utility Note No. 1
Change 16 Sheet C8.0 **ADDED** Storm Connection from Existing Roof Drain to Proposed Storm on East Side of Existing Building
Change 17 Sheet C8.0 **REVISED** Outlet Sewer to 6-inch at 1.0% Slope
Change 18 Sheet C8.0 **REVISED** CB-3 to 3.1” Diameter Restrictor Plate
Change 19 Sheet C8.0 **REVISED** Call-outs for Utility Trench Detail

Change 20 Sheet C8.1 **ADDED** Operation and Maintenance Notes for Bioinfiltration Systems

ITEM NO. 6: REQUESTS FOR INFORMATION
None.

List of Attachments and Drawings:
(Available at Cross Rhodes Online Planroom: http://www.x-rhodesplanroom.com/)

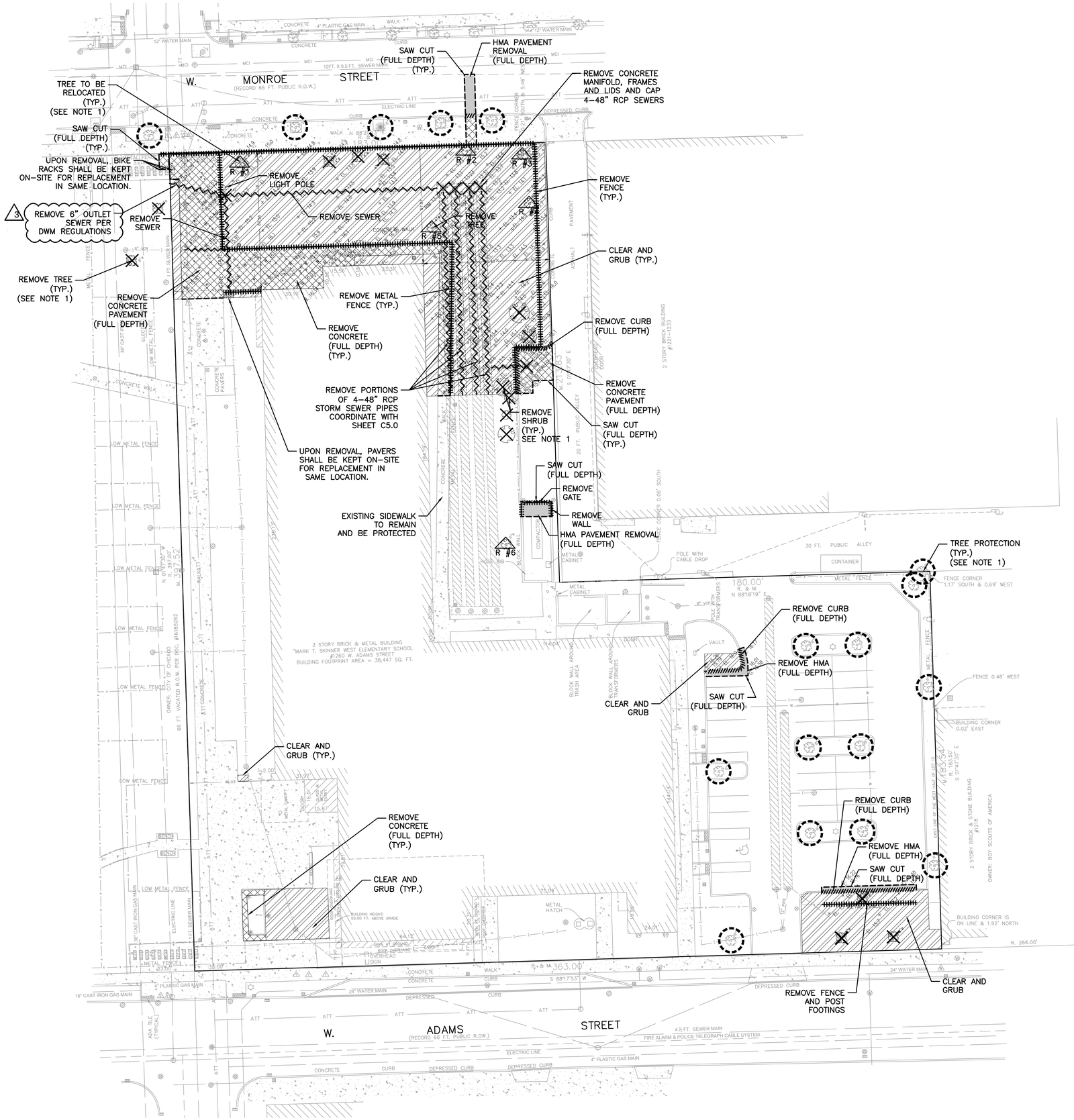
This Addendum includes the following attached Specifications and/or Documents:

1. None.

This Addendum includes the following attached Drawings:

1. Sheet C2.0, dated 07/31/17.
2. Sheet C5.0, dated 07/31/17.
3. Sheet C7.1, dated 07/31/17.
4. Sheet C7.2, dated 07/31/17.
5. Sheet C8.0, dated 07/31/17.
6. Sheet C8.1, dated 07/31/17.

END OF ADDENDUM NO. 03



LEGEND: DEMOLITION

- HMA PAVEMENT REMOVAL (FULL DEPTH)
- CONCRETE PAVEMENT REMOVAL (FULL DEPTH)
- PAVER REMOVAL (FULL DEPTH)
- CLEAR AND GRUB
- SAW CUT PAVEMENT/CURB (FULL DEPTH)
- REMOVE EXISTING FENCING
- REMOVE EXISTING CURB AND GUTTER
- REMOVE EXISTING UTILITIES
- REMOVE EXISTING DRAINAGE STRUCTURE, TREES AND SHRUBS
- TREE PROTECTION
- R #X — TREE TO BE RELOCATED

NOTES:

1. CONTRACTOR SHALL REFERENCE LANDSCAPE PLANS FOR ALL TREE/SHRUB PROTECTION, REMOVAL AND RELOCATION.

NORTH

GRAPHIC SCALE
20' 0 20' 40'
(IN FEET)
1 inch = 20 ft.
ALL DRAWINGS SHALL BE CHECKED FOR PROPER SCALE

SKINNER WEST ELEMENTARY SCHOOL ANNEX
1260 W. ADAMS STREET
CHICAGO, ILLINOIS 60607

SWWB LTD., Architects
4640 N Francisco Ave.
Chicago, IL 60625
Tel: (312) 236-0528
ARCHITECT OF RECORD

BOEMAN DESIGN, LLC
2607 West Leland Avenue
Chicago, Illinois 60625
Tel: (773) 942-6437
ASSOCIATE ARCHITECT

Stearn - Joglekar, Ltd.
Chicago, Illinois
Structural Engineer

David Mason & Associates
Chicago, Illinois
Civil Engineer

Melvin Cohen & Assoc.
Chicago, Illinois
Mechanical, Electrical, Plumbing and FP Engineer

Altamanu, Inc.
Chicago, Illinois
Landscape Architect

Shiner + Assoc., Inc.
Chicago, Illinois
Acoustics Consultant

Issuance

Mark	Description	Date
	SCHEMATIC DESIGN	10.21.16
	DESIGN DEVELOPMENT	12.13.16
	60% CD REVIEW	02.06.17
	90% CD REVIEW	05.19.17
	100% CD REVIEW	06.02.17
	ISSUED FOR PERMIT	05.31.17
3	ADDENDUM NO. 3	07.31.17

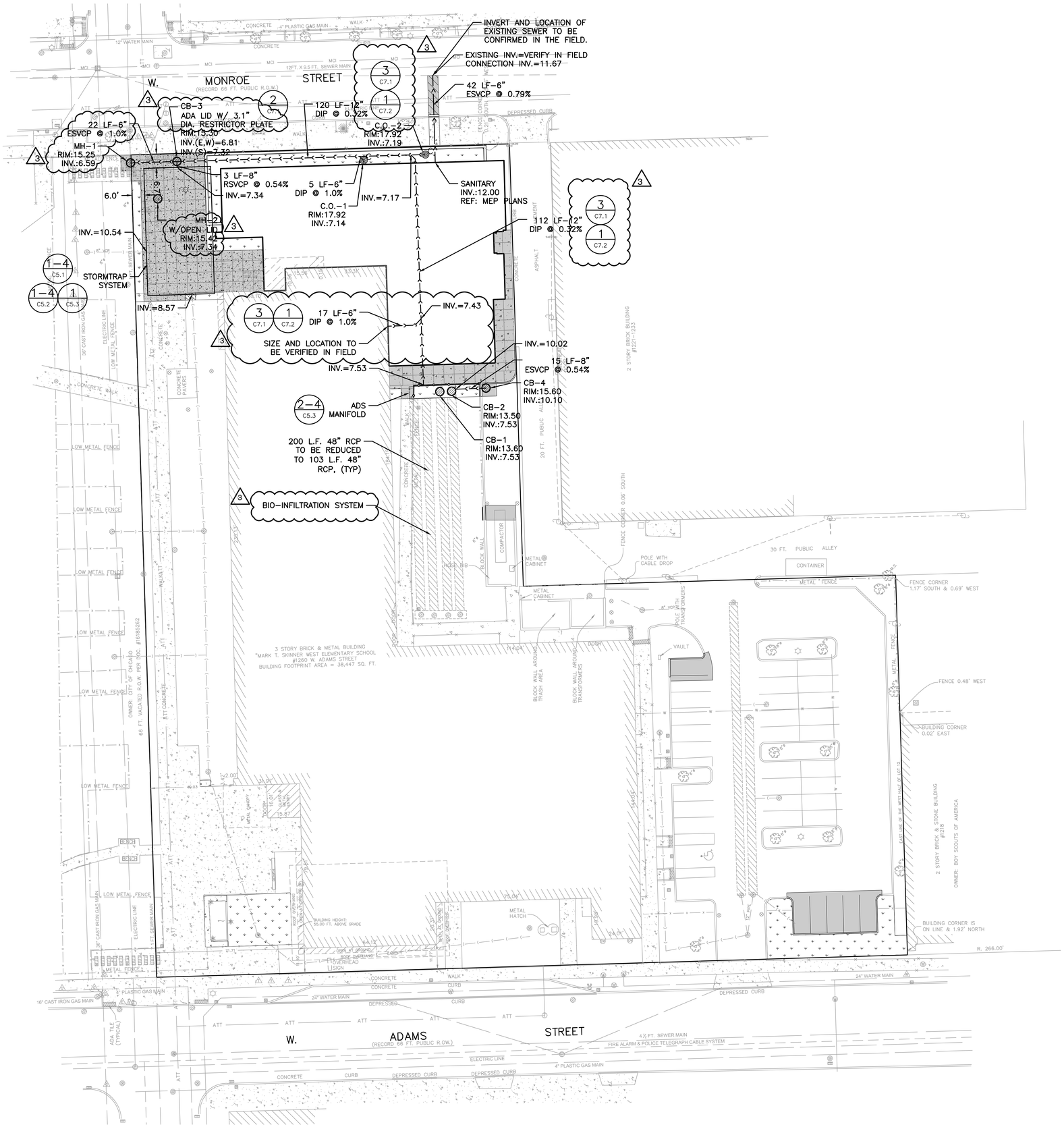
PBCC Contract No.: C1579
PBCC Project No.: 05045
CPS Project No.: 2017-29281-ANX
SWWB Project No.: 16-288

Title

DEMOLITION PLAN

Sheet

C2.0



LEGEND: UTILITY

- CATCH BASIN / MANHOLE
- STORM SEWER
- SANITARY SEWER
- WATER LINE
- ELECTRIC LINE
- 24" RISER
- CLEANOUT

UTILITY NOTES:

1. THE PROPOSED MANIFOLD AND STORM SEWER PIPES TO BE BACKFILLED WITH CA-7 PER THE RESPECTIVE DETAILS.
2. ALL EXISTING INVERTS TO BE VERIFIED BY THE CONTRACTOR.
3. EXCAVATION FOR STORMTRAP TO BE CONDUCTED BY ADHERING TO THE STORMTRAP PLANS.
4. ALL EXISTING STORM SEWER AND EXISTING DETENTION SYSTEM TO REMAIN MUST BE CHECKED AND CLEANED OUT AS NEEDED INCLUDING STRUCTURE SUMPS BEFORE MAKING NEW CONNECTION TO CITY SEWER.

NORTH

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20' 0 20' 40'
(IN FEET)
1 inch = 20 ft.
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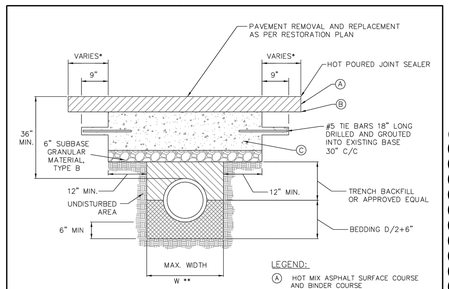
SWWB Project No.: 16-288

Title

UTILITY PLAN

Sheet

C5.0

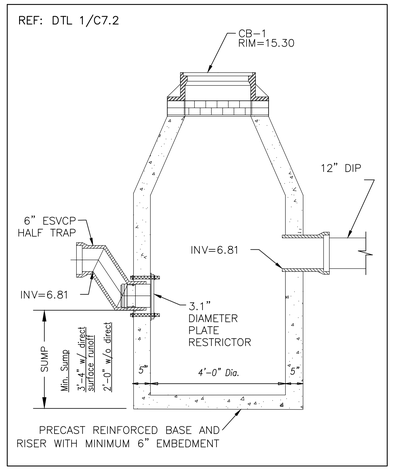


NOTES:

1. THE PORTLAND CEMENT CONCRETE BASE SHALL BE 8" OR MORE (SEE SECTION 4.2b FOR REQUIRED THICKNESS). FOR CONCRETE STREETS THE CONCRETE SHALL BE BROUGHT TO GRADE (INCLUDING 1'-0" OVERLAP) AND FINISHED AS REQUIRED IN THE IDOT SSRBC.
2. ALL EXISTING PAVEMENTS SHALL BE SAW CUT 1'-0" ON BOTH SIDES OF THE TRENCH OR PAVEMENT OPENING. UNDER NO CIRCUMSTANCES SHOULD EXISTING PAVEMENT, WHICH HAS BEEN UNDERMINED OR OTHERWISE DISTURBED, BE LEFT IN PLACE AND NOT RESTORED.
3. ALL STREET PAVEMENT WILL REQUIRE PLACEMENT OF #5 TIE BARS, 18 INCHES LONG DRILLED AND GROUTED (NON SHRINK) AT 30" CENTERS ON ALL SIDES. A MINIMUM OF TWO TIE BARS WILL BE REQUIRED ON EACH SIDE OF SAW CUT BOUNDARIES.
4. ALL TIE BARS AND DOWEL BARS ARE TO BE EPOXY COATED (INCIDENTAL).

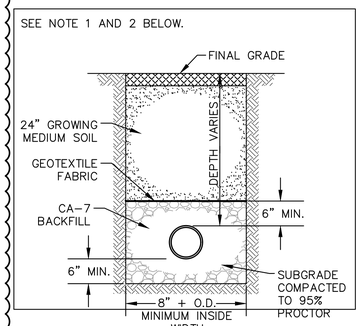
CDOT CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO
	1/1/2014	REVISION 1	STREET PAVEMENT RESTORATION DETAIL WITH TRENCH BACKFILL
	1/27/2016	REVISION 2	
			DATE: 12/12/06 — SHEET: A-2-2A — DRAWN BY: CDOT

1 C7.1 STREET RESTORATION DETAIL
SCALE: NOT TO SCALE

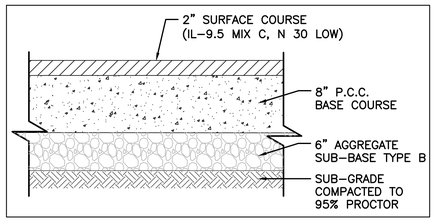


3

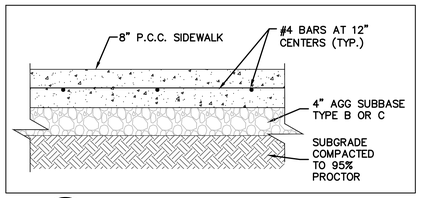
2 C7.1 CB-1 W/RESTRICTOR
SCALE: NOT TO SCALE



3 C7.1 UTILITY TRENCH DETAIL UNDER LANDSCAPE
SCALE: NOT TO SCALE



4 C7.1 HMA PAVEMENT-TYPE I (ROW)
SCALE: NOT TO SCALE



5 C7.1 CONCRETE PAVEMENT
SCALE: NOT TO SCALE

NOTES:

1. TRENCHES IN EXCESS OF 5' DEEP REQUIRE A PROTECTIVE SYSTEM PER STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.
2. UNDERDRAIN ENCASEMENT SHALL BE A MINIMUM OF 12" X 12" FOR 4" PIPE AND 16" X 16" FOR 8" PIPE.

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SWWB Project No.: 16-288

Title
DETAILS

Sheet
C7.1

1 DRAINAGE STRUCTURE DETAILS

STANDARD DRAINAGE STRUCTURES FOR PRIVATE DEVELOPMENT

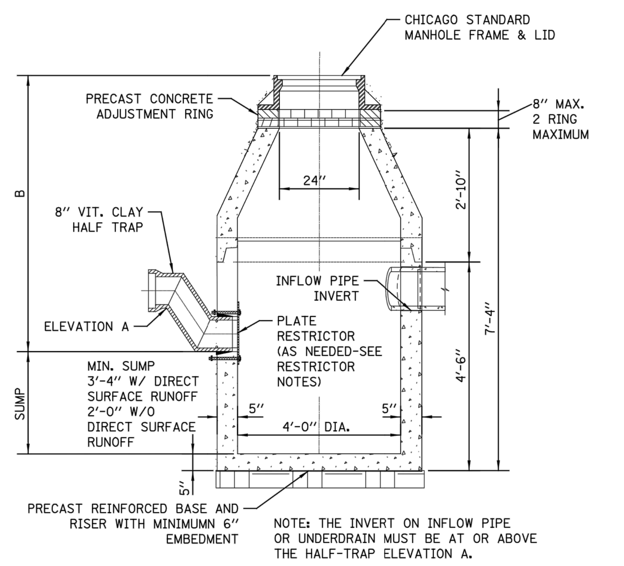
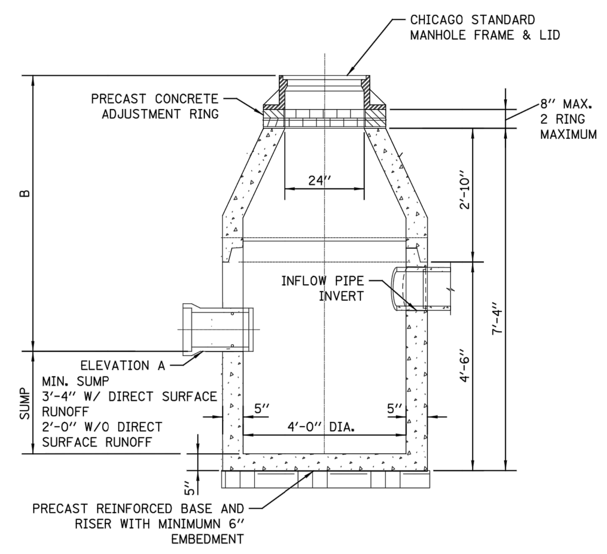
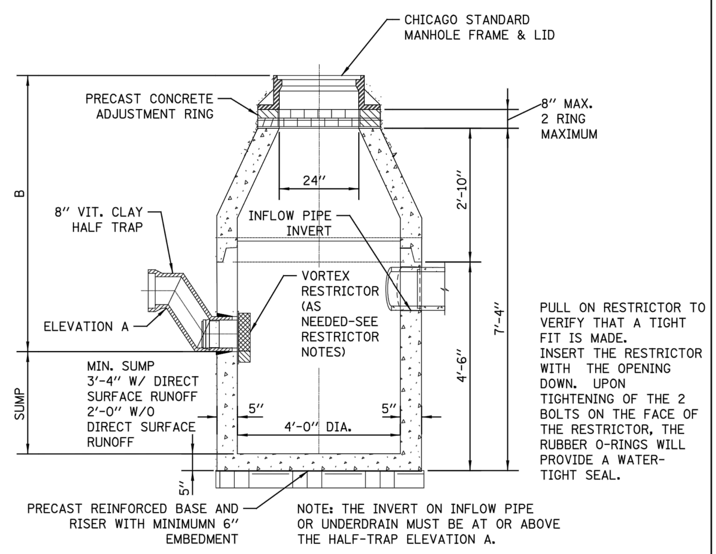


PLATE RESTRICTOR CATCH BASIN
CONICAL SECTION
N.T.S.

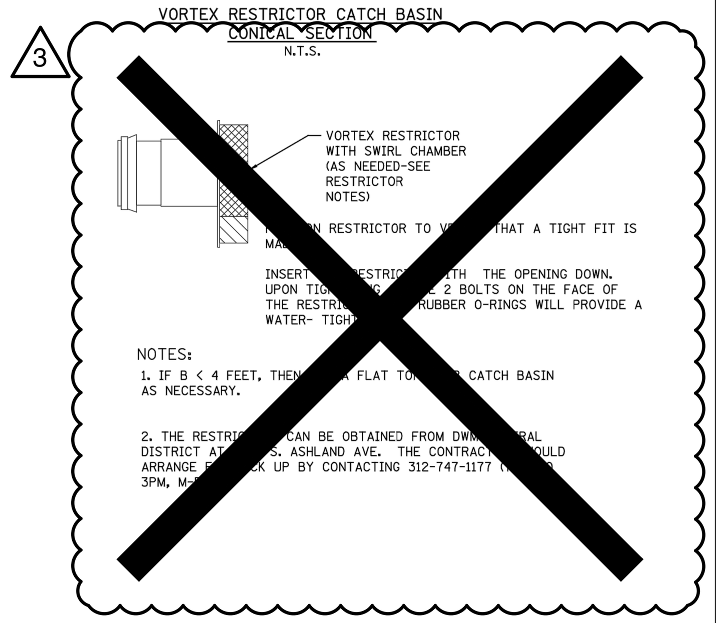


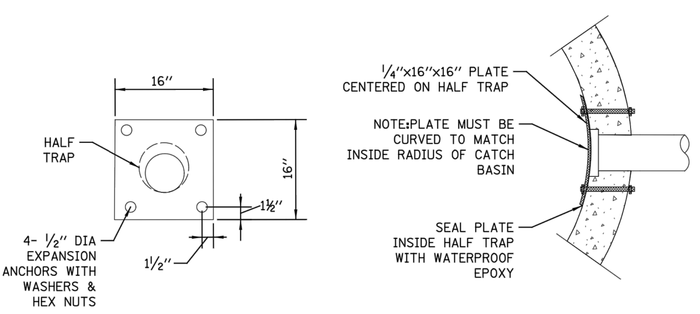
STANDARD CATCH BASIN
CONICAL SECTION
N.T.S.



VORTEX RESTRICTOR CATCH BASIN
CONICAL SECTION
N.T.S.

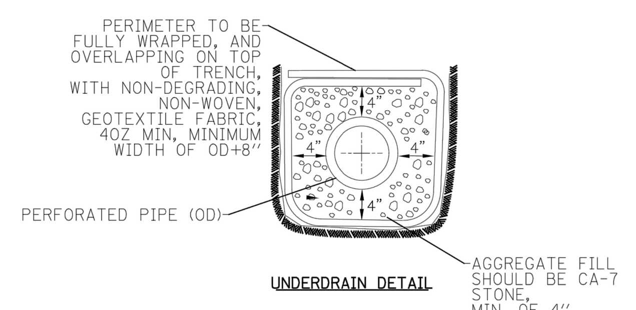
3





NOTES:

1. THE RESTRICTOR MUST BE INSTALLED IN CATCH BASINS OR MANHOLES WITH 2' MIN. SUMPS.
2. PLATE AND FASTENERS MUST BE FABRICATED IN STAINLESS STEEL, DUCTILE IRON, OR EQUIVALENT WATERPROOF/WEATHER PROOF MATERIALS.
3. MIN. ORIFICE SIZE= 2.5" DIA.
4. IF B< 4 FEET, THEN USE A FLAT TOP SLAB CATCH BASIN AS NECESSARY.



UNDERDRAIN DETAIL

GENERAL NOTES:

1. CATCH BASIN TO CATCH BASIN CONNECTIONS ARE ALLOWED IN PRIVATE SITES & ALLEYS. ONLY THE DOWNSTREAM CATCH BASIN IS REQUIRED TO HAVE A HALF-TRAP.
2. IF B < 4 FEET, THEN USE A FLAT TOP SLAB CATCH BASIN AS NECESSARY.
3. FOR TRENCH BACKFILL, USE FA-6 SAND, CRUSHED CONCRETE SAND, OR STONE SAND.
4. FOR GRANULAR EMBEDMENT, USE CA-11, CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.
5. INLETS AND 3' DIAMETER CATCH BASINS ARE TO BE USED ONLY WITH PRIOR APPROVAL OF THE DEPT OF WATER MANAGEMENT- ENGINEERING SERVICES, SEWER SECTION, AND THE DEPT. OF BUILDINGS STORMWATER REVIEWER.

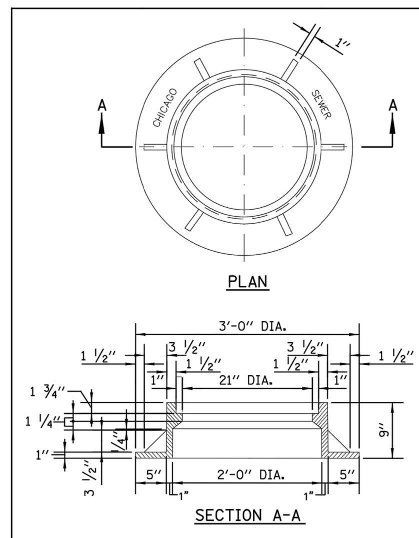
STANDARD REVISIONS	
DATE	DESCRIPTION
2/24/15	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

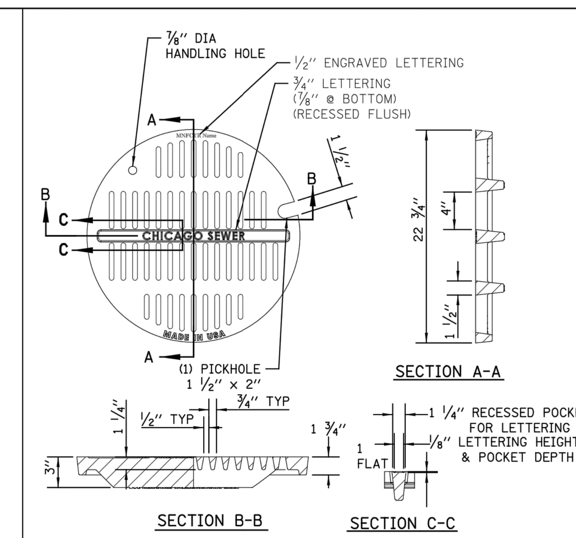
CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES
DRAINAGE STRUCTURE DETAILS PRIVATE DEVELOPMENT
DRAWN: SBW DESIGNED: CHECKED: REVIEWED:
A.19
___ OF ___
PN ____

1 DRAINAGE STRUCTURE DETAILS
C7.2
SCALE: NOT TO SCALE

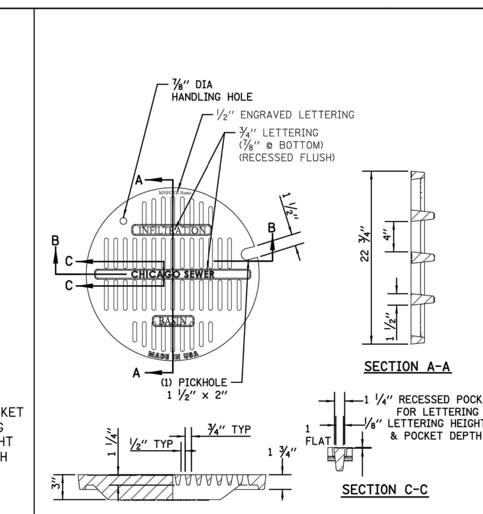
2 MANHOLE LIDS AND FRAMES



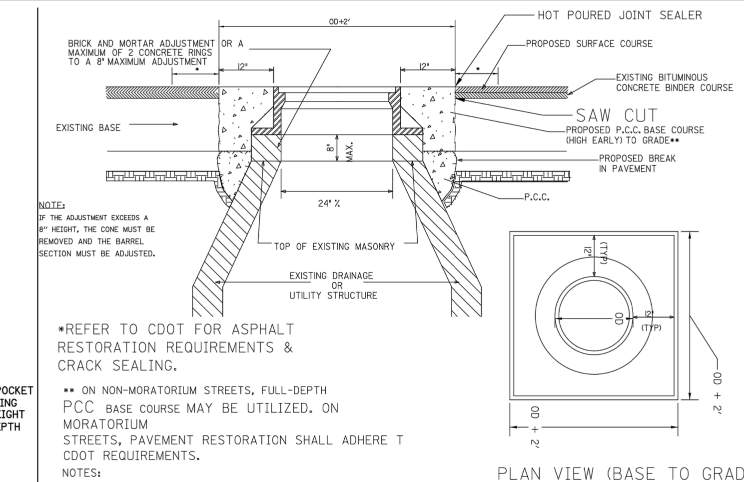
HEAVYWEIGHT MANHOLE FRAME
MATERIAL: CAST IRON



STANDARD CB/MH LID



STANDARD LID FOR INFILTRATION SYSTEMS



*REFER TO CDOT FOR ASPHALT RESTORATION REQUIREMENTS & CRACK SEALING.

** ON NON-MORATORIUM STREETS, FULL-DEPTH PCC BASE COURSE MAY BE UTILIZED. ON MORATORIUM STREETS, PAVEMENT RESTORATION SHALL ADHERE T CDOT REQUIREMENTS.

NOTES:

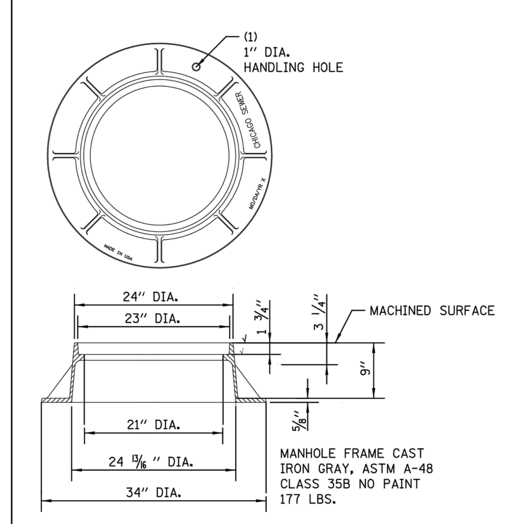
IF THE ADJUSTMENT EXCEEDS AN 8" HEIGHT, THE CONE MUST BE REMOVED AND THE BARREL SECTION MUST BE ADJUSTED.

THE CONTRACTOR IS REQUIRED TO REPLACE ANY BROKEN FRAMES AND LIDS OF SEWER STRUCTURES WITH STANDARD FRAMES AND LIDS OF THE DWM. IN ADJUSTMENT OR RECONSTRUCTION OF SEWER STRUCTURES, ANY NON-STANDARD FRAMES AND LIDS MUST BE REPLACED WITH STANDARD FRAMES AND LIDS. IN ADJUSTMENT OR RECONSTRUCTION OF INLETS, ANY NON-STANDARD INLETS (GUTTER BOXES) MUST BE REPLACED WITH DWM STANDARD INLETS.

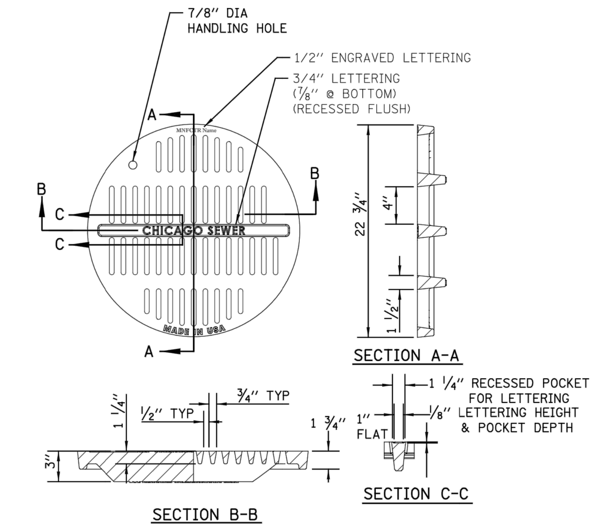
THE FRAMES AND LIDS OF SEWER STRUCTURES TO BE ABANDONED, REMOVED, OR FILLED MUST BE SALVAGED AND THE DWM NOTIFIED FOR PICK UP.

MANHOLES, CATCH BASINS AND INLETS MUST BE PROTECTED FROM THE ENTRY OF ASPHALT/DEBRIS INTO THE SEWER SYSTEM DURING CONSTRUCTION. THE CONTRACTOR MUST MARK LOCATIONS OF ALL SEWER STRUCTURES ON THE SIDEWALK BEFORE STARTING PAVEMENT REMOVAL/REPLACEMENT. ADJUSTMENT OF FRAMES AND LIDS OF SEWER STRUCTURES MUST BE COMPLETED PRIOR TO STREET RESURFACING.

DETAIL OF FRAME ADJUSTMENT

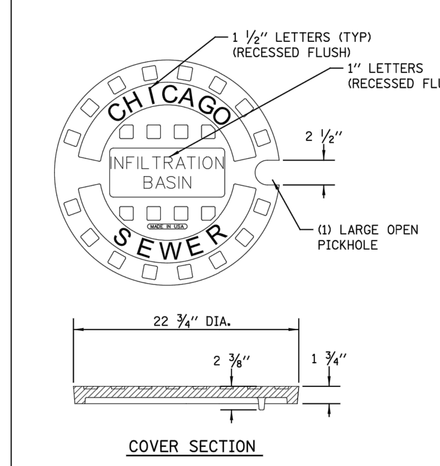


LIGHTWEIGHT MANHOLE FRAME

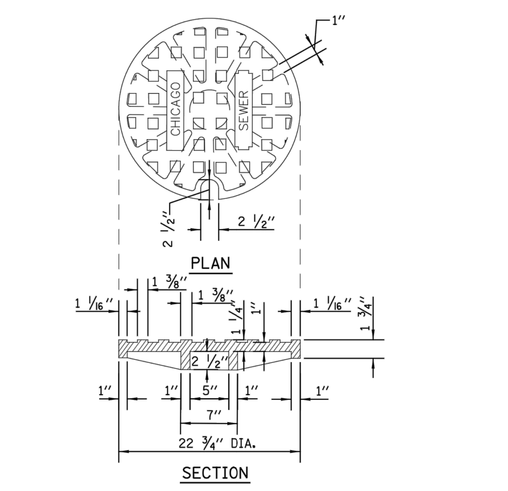


ADA MANHOLE LID
NOTE:
NOT TO BE USED WITHOUT PRIOR APPROVAL OF CDWM

MATERIALS GRATE-GRAY IRON ASTM A48 CL35B
DESIGN LOAD HEAVY DUTY
COATING UNDIPPED
OPEN AREA 85.6 SQ. IN.



INFILTRATION SOLID LID FOR CATCH BASIN



SOLID LID FOR MANHOLES

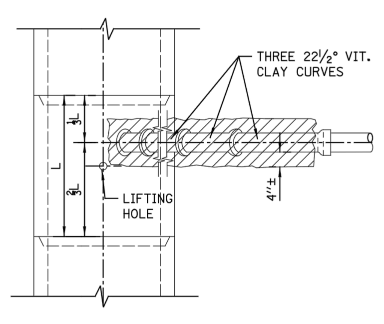
STANDARD REVISIONS	
DATE	DESCRIPTION
1/5/15	Approved

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

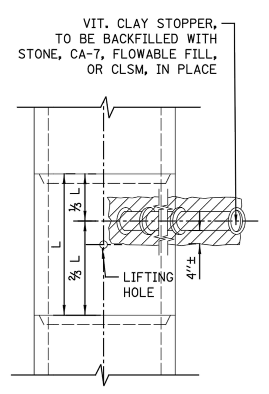
CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES
MANHOLE LIDS AND FRAMES
DRAWN: SBW DESIGNED: CHECKED: REVIEWED:
A.3
___ OF ___
PN ____

2 MANHOLE LIDS AND FRAMES
C7.2
SCALE: NOT TO SCALE

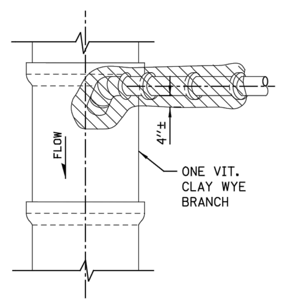
3 VITRIFIED CLAY PIPE DRAIN CONNECTIONS



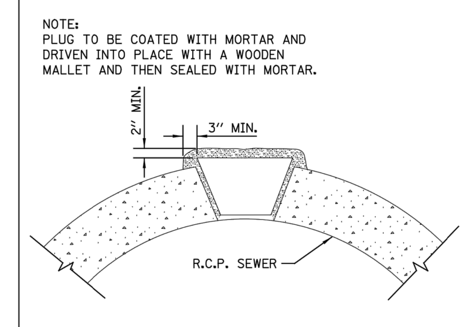
PLAN



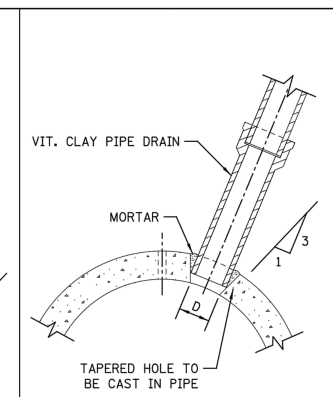
PLAN



PLAN

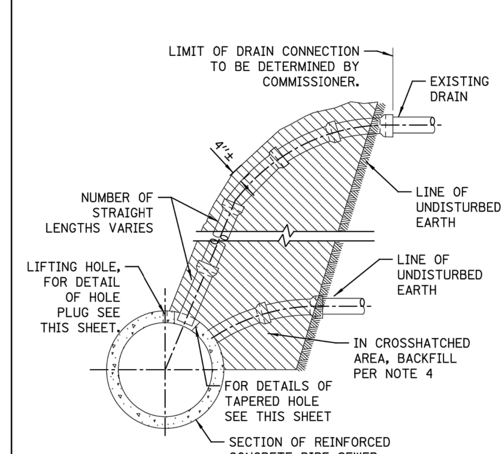


LIFTING HOLE PLUG DETAIL FOR CONCRETE PIPE

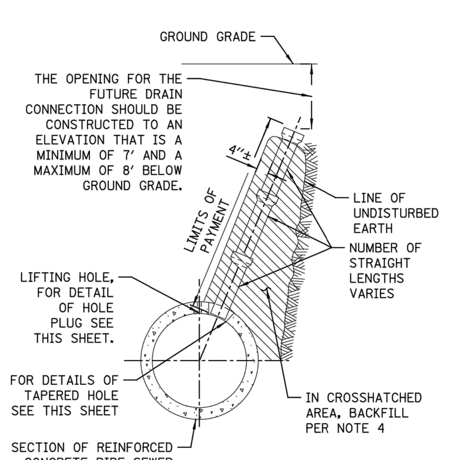


SIZE OF DRAIN	"D"
6"	6⅞"
8"	9⅛"
10"	11⅛"
12"	13½"
15"	17"
18"	20¼"
21"	23⅞"

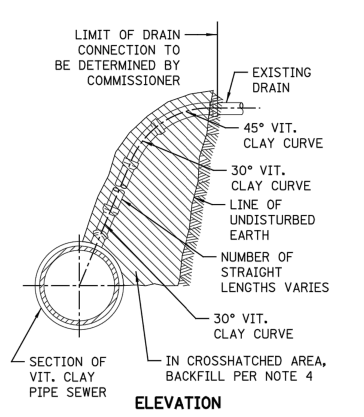
DETAIL OF TAPERED HOLE



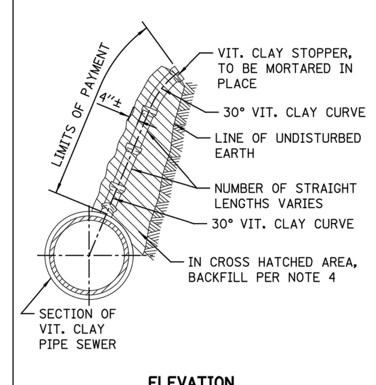
TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS



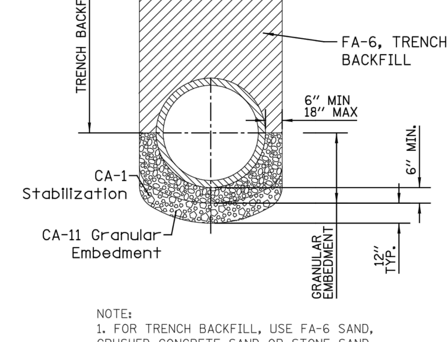
TYPICAL DRAIN STACKS FOR FUTURE USE



TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS



TYPICAL DRAIN STACKS FOR FUTURE USE



NOTE:
1. FOR TRENCH BACKFILL, USE FA-6 SAND, CRUSHED CONCRETE SAND OR STONE SAND.
2. FOR GRANULAR EMBEDMENT, USE CA-11, CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.
3. 12" OF CA-1 STONE IS ONLY REQUIRED WHEN UNSTABLE MATERIAL IS ENCOUNTERED AT TRENCH BOTTOM.

SEWER TRENCH DETAIL

NOTES:

1. ALL DRAIN CONNECTION JOINTS MUST BE MADE AS SPECIFIED IN SPECIFICATIONS..
2. FOR DUCTILE IRON PIPE DRAIN CONNECTIONS SEE SHEET NO. A.2.
3. FOR ALL GRANULAR EMBANKMENT, USE CA-7 OR CA-11
4. FOR BACKFILL OF HATCHED SUPPORT AREAS, USE CONCRETE. CA-11, FLOWABLE FILL, OR CLSM.

STANDARD REVISIONS	
DATE	DESCRIPTION
2/24/15	APPROVED PLAN

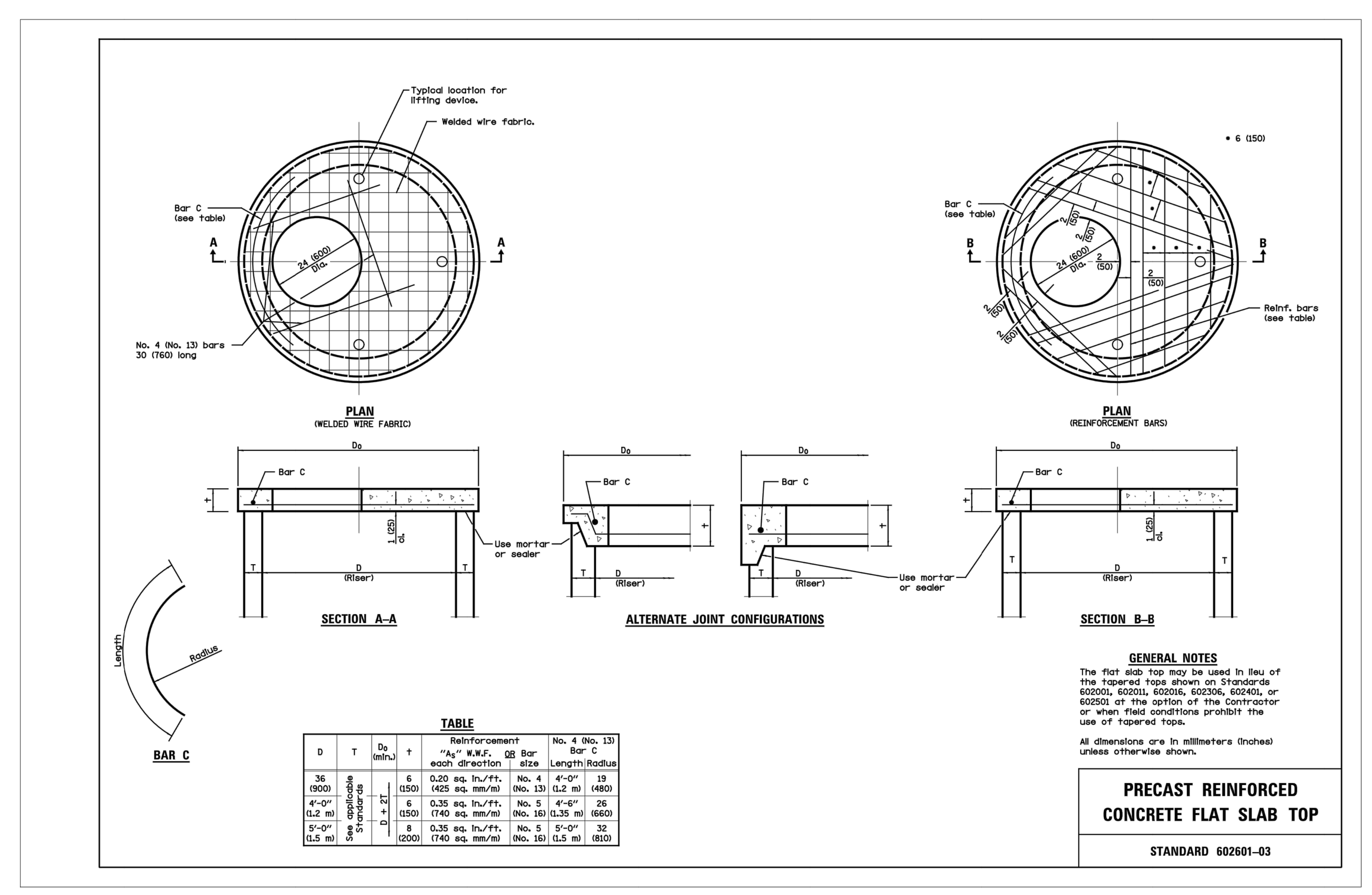
PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES
VITRIFIED CLAY PIPE DRAIN CONNECTIONS
DRAWN: SBW DESIGNED: CHECKED: GD, GC, SO REVIEWED:
A.1
___ OF ___
PN ____

3 VITRIFIED CLAY PIPE DRAIN CONNECTIONS
C7.2
SCALE: NOT TO SCALE

4 FLAT TOP SLAB DETAILS

SPECIAL DRAINAGE STRUCTURES
FOR PUBLIC STREETS AND ALLEYS



TABLE

D	T	Do (min.)	t	Reinforcement "As" W.W.F. each direction	OR Bar size	No. 4 (No. 13) Bar C Length	Radius
36 (900)	See applicable Standards	D + 2T	6 (150)	0.20 sq. in./ft. (425 sq. mm/m)	No. 4 (No. 13)	4'-0" (1.2 m)	19 (480)
4'-0" (1.2 m)			6 (150)	0.35 sq. in./ft. (740 sq. mm/m)	No. 5 (No. 16)	4'-6" (1.35 m)	26 (660)
5'-0" (1.5 m)			8 (200)	0.35 sq. in./ft. (740 sq. mm/m)	No. 5 (No. 16)	5'-0" (1.5 m)	32 (810)

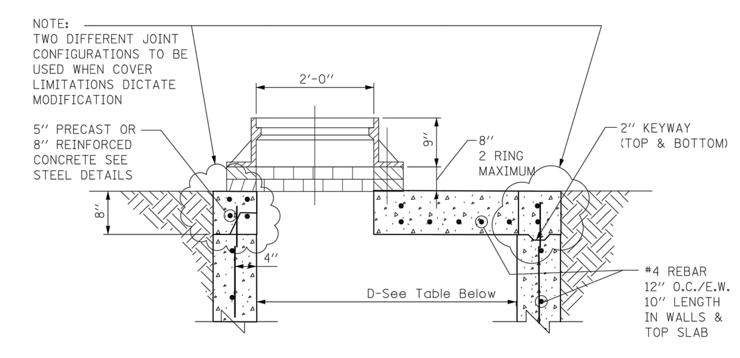
GENERAL NOTES

The flat slab top may be used in lieu of the tapered tops shown on Standards 602001, 602011, 602016, 602306, 602401, or 602501 at the option of the Contractor or when field conditions prohibit the use of tapered tops.

All dimensions are in millimeters (inches) unless otherwise shown.

PRECAST REINFORCED CONCRETE FLAT SLAB TOP

STANDARD 602601-03



STANDARD FLAT TOP SLAB
FOR CATCH BASINS

NOTES:
FLAT TOP SLAB AAPLICATION CAN ONLY BE USED WITH WRITTEN PERMISSION FROM CDWM.
USE LATEST IDOT DETAIL, #602601

STANDARD REVISIONS	
DATE	DESCRIPTION
1/5/15	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES
FLAT TOP SLAB DETAILS
DRAWN: SBW DESIGNED: CHECKED: REVIEWED:
A.4
___ OF ___
PN ____

4 FLAT TOP SLAB DETAILS
C7.2
SCALE: NOT TO SCALE

SKINNER WEST ELEMENTARY SCHOOL ANNEX
1260 W. ADAMS STREET
CHICAGO, ILLINOIS 60607

SWWB LTD., Architects
4640 N Francisco Ave.
Chicago, IL 60625
Tel: (312) 236-0528
ARCHITECT OF RECORD

BOEMAN DESIGN, LLC
2607 West Leland Avenue
Chicago, Illinois 60625
Tel: (773) 942-6437

ASSOCIATE ARCHITECT

Stearn - Joglekar, Ltd.
Chicago, Illinois
Structural Engineer

David Mason & Associates
Chicago, Illinois
Civil Engineer

Melvin Cohen & Assoc.
Chicago, Illinois
Mechanical, Electrical, Plumbing and FP Engineer

Altamanu, Inc.
Chicago, Illinois
Landscape Architect

Shiner + Assoc., Inc.
Chicago, Illinois
Acoustics Consultant

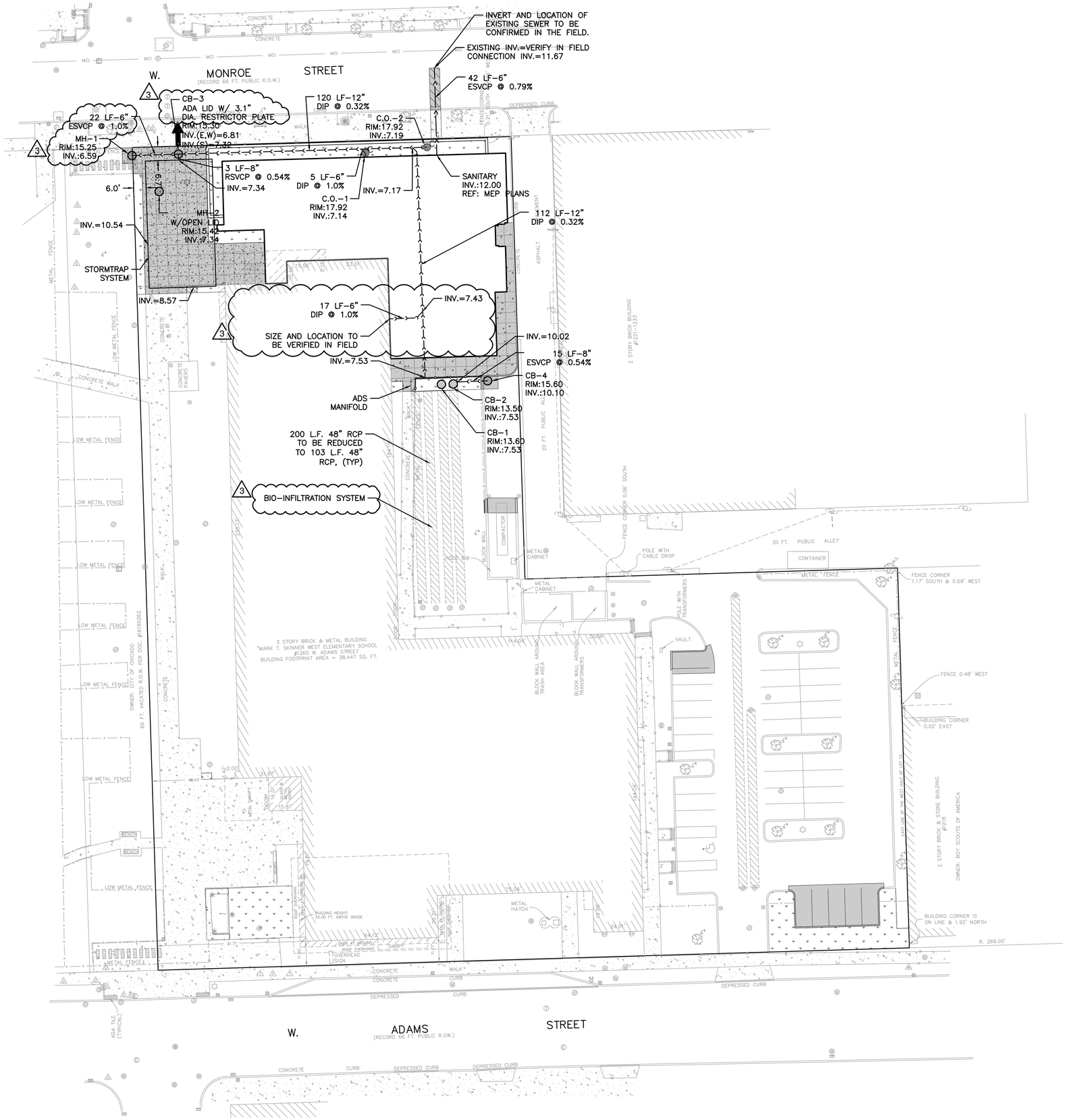
Issuance

Mark	Description	Date
	SCHEMATIC DESIGN	10.21.16
	DESIGN DEVELOPMENT	12.13.16
	60% CD REVIEW	02.06.17
	90% CD REVIEW	05.19.17
	100% CD REVIEW	06.02.17
	ISSUED FOR PERMIT	05.31.17
3	ADDENDUM NO. 3	07.31.17

PBCC Contract No.: C1579
PBCC Project No.: 05045
CPS Project No.: 2017-29281-ANX
SWWB Project No.: 16-288

Title
DETAILS

Sheet
C7.2



LEGEND: OPERATIONS AND MAINTENANCE

- HMA PAVEMENT
- R.O.W. PAVEMENT
- 5" CONCRETE SIDEWALK
- 5" CONCRETE SIDEWALK (ROW)
- 8" CONCRETE PAVEMENT
- PLANTING AREA
- 6"x12" PCC CURB TYPE 4 BARRIER CURB
- CATCH BASIN / MANHOLE
- 24" RISER
- CLEANOUT
- OVERFLOW
- STORM SEWER
- SANITARY SEWER

3 NOTES:

1. ALL EXISTING STORM SEWER AND EXISTING DETENTION SYSTEM TO REMAIN MUST BE CHECKED AND CLEANED OUT AS NEEDED INCLUDING STRUCTURE SUMPS BEFORE MAKING NEW CONNECTION TO CITY SEWER.

NORTH

GRAPHIC SCALE
20' 0 20' 40'
(IN FEET)
1 inch = 20 ft.
ALL DRAWINGS SHALL BE CHECKED FOR PROPER SCALE

SKINNER WEST ELEMENTARY SCHOOL ANNEX
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	ISSUED FOR PERMIT	05,31,17
3	ADDENDUM NO. 3	07,31,17

PBCC Contract No.: C1579
PBCC Project No.: 05045
CPS Project No.: 2017-29281-ANX
SWWB Project No.: 16-288

Title

OPERATION AND MAINTENANCE PLAN

Sheet

C8.0

OPERATION AND MAINTENANCE NOTES

GENERAL INFORMATION PER CITY OF CHICAGO

1. PROPER TRAINING AND WRITTEN GUIDANCE SHOULD BE PROVIDED TO ALL PERSONNEL WHO WILL BE INVOLVED IN OPERATIONS & MAINTENANCE (O&M).
2. O&M PLAN PROCEDURES AND PRACTICES MUST BE REVIEWED AND ASSESSED ANNUALLY.
3. ACCESS ROUTES INCLUDING ROADWAYS AND SIDEWALKS SHALL BE INSPECTED ANNUALLY AND MAINTAINED AS NEEDED.
4. DRAINAGE STRUCTURES AND FLOW RESTRICTORS MUST BE INSPECTED AND CLEANED SEMI–ANNUALLY.
5. VOLUME CONTROL BMP'S SHALL BE INSPECTED SEMI–ANNUALLY AND AFTER SIGNIFICANT RAINFALL EVENTS EXCEEDING 1.5 INCHES.
6. THE OWNER SHALL KEEP AN UPDATED LOG BOOK DOCUMENTING THE PERFORMANCE OF THE REQUIRED O&M ACTIVITIES FOR PERPETUITY. LOG BOOKS MUST BE PRODUCED UPON THE REQUEST OF A CITY INSPECTOR.
7. VEGETATION SHALL BE MAINTAINED ON A REGULAR BASIS.
8. PEST CONTROL MEASURES SHALL BE IMPLEMENTED TO ADDRESS INSECTS AND RODENTS.
9. SIGNAGE AND FENCING SHALL BE INSTALLED AND MAINTAINED WHERE NECESSARY TO PROTECT PROPERTY AND THE PUBLIC.
10. UNDERGROUND VAULTS MUST INCLUDE DESIGN MEASURES TO FACILITATE CLEANING AND MAINTENANCE. CONFINED SPACE SAFETY PROCEDURES MUST BE FOLLOWED.
11. PROPOSED MODIFICATIONS TO THE O&M PLAN MUST BE SUBMITTED TO THE DEPARTMENT OF BUILDINGS (DOB) FOR REVIEW AND APPROVAL. THE EXISTING AND PROPOSED O&M PLANS AND A COPY OF THE ORIGINAL DOB APPROVAL FORM ARE REQUIRED FOR THE MODIFICATION AND MUST BE SUBMITTED SIMULTANEOUSLY WITH THE PROPOSED AMENDMENTS.

GENERAL INFORMATION PER CHICAGO PUBLIC SCHOOLS

OWNER INFORMATION & EMPLOYEE TRAINING:

THE PEOPLE REPRESENTED BELOW ARE INVOLVED WITH AND RESPONSIBLE FOR THE OPERATIONS AND MAINTENANCE (O&M) OF THE STORMWATER DETENTION AND IRRIGATION FACILITIES AS OUTLINED HEREIN.

1. PROPERTY OWNER LISTED BELOW SHALL BE RESPONSIBLE FOR OVERSEEING AND ENSURING PROPERTY O&M IS CARRIED OUT AND PERFORMED AS DOCUMENTED HEREIN.

   CHICAGO PUBLIC SCHOOLS
   LESLIE NORGREN
   DIRECTOR OF ASSET MANAGEMENT
   42 W. MADISON ST. CHICAGO, IL. 60602
   773–553–5727

O&M PRACTICES AND IMPLEMENTATION SCHEDULE:

INFORMATION IN THIS SECTION OUTLINES THE SPECIFIC INSPECTION AND MAINTENANCE REGIMEN FOR EACH BMP (BEST MANAGEMENT PRACTICE) AND IRRIGATION FACILITY AND MUST COMPLY WITH THE FOLLOWING PER CHICAGO PUBLIC SCHOOLS. IF THERE IS A CONFILCT BETWEEN CHICAGO PUBLIC SCHOOLS PRACTICES AND CITY OF CHICAGO PRACTICES, THE MORE STRINGENT SHALL TAKE PRECEDENCE.

1. O&M PLAN PROCEDURES AND PRACTICES MUST BE REVIEWED AND ASSESSED ANNUALLY.
2. THE CITY REQUIRES THAT PROPERTY OWNERS KEEP AN O&M INSPECTION AND MAINTENANCE LOGBOOK. IN GENERAL, THE LOGBOOK SHOULD NOTE ALL INSPECTION DATES, FACILITY COMPONENTS INSPECTED, AND ANY MAINTENANCE PERFORMED AND REPAIRS MADE. ALL INSPECTIONS AND MAINTENANCE, BOTH ROUTINE AND EMERGENCY, SHOULD BE RECORDED IN THE LOGBOOK. EACH BMP–SPECIFIC O&M SHEET SHOULD SERVE AS A CHECKLIST FOR DESIGN ELEMENTS THAT REQUIRE INSPECTION, THE FREQUENCY OF INSPECTIONS, AND CONDITIONS THAT INDICATE MAINTENANCE IS NEEDED. LOG BOOKS MUST BE PRODUCED UPON THE REQUEST OF A CITY INSPECTOR.

DRAINAGE STRUCTURES AND RESTRICTORS

1. AS NEEDED/ONGOING
   1.1. KEEP ADJACENT LANDSCAPED AREAS WELL–MAINTAINED TO PREVENT SOIL FROM BEING TRANSPORTED AND DEPOSITED INTO THE DRAINAGE STRUCTURE.
   1.2. MONITOR REGULARLY TO ENSURE THAT THE SURFACE DRAINS PROPERLY. RE–GRADE AREAS WHERE PONDING OCCURS IN ORDER TO PROVIDE POSITIVE PITCH TOWARDS THE STRUCTURE.
2. TWICE PER YEAR
   2.1. CLEAN OUT CATCH BASINS OF DEBRIS THAT PROHIBIT WATER FROM PASSING THROUGH THE PIPING AND STORM WATER RESTRICTORS.
   2.2. INSPECT INLET AND OUTLET PIPES AT ALL STRUCTURES FOR CLOGGING. REMOVE DEBRIS AND SEDIMENT AS ENCOUNTERED.
   2.3. INSPECT STRUCTURES FOR DAMAGE AND SETTLEMENT.

DETENTION SYSTEM NOTES

MAINTENANCE GUIDELINES:

MAINTENANCE IS REQUIRED FOR THE PROPER OPERATION OF DETENTION SYSTEMS. PLANS FOR DETENTION SYSTEMS SHOULD IDENTIFY OWNERS, PARTIES RESPONSIBLE FOR MAINTENANCE, AND AN INSPECTION AND MAINTENANCE SCHEDULE FOR DETENTION SYSTEMS.

STANDARD 2' WIDE LADDERS SHALL BE USED TO ACCESS STORMTRAP SYSTEM FOR MAINTENANCE PURPOSES.

ACTIVITY SCHEDULE (UNDERGROUND DETENTION SYSTEMS):

UNDERGROUND VAULTS MUST BE DESIGNED SO THAT THE VAULT CAN HAVE EASY ACCESS FOR INSPECTION AND MAINTENANCE. VAULT MAINTENANCE PROCEDURES MUST MEET OSHA CONFINED SPACE ENTRY REQUIREMENTS, WHICH INCLUDE CLEARLY MARKING ENTRANCES TO CONFINED SPACE AREAS. THIS MAY BE ACCOMPLISHED BY HANGING A REMOVABLE SIGN IN THE ACCESS RISER(S), JUST UNDER THE ACCESS LID.

AS NEEDED:
- REMOVAL OF SEDIMENT AND DEBRIS FROM SUBSURFACE VAULT SEDIMENTATION CHAMBER WHEN THE SEDIMENT ZONE IS FULL AS WELL AS FROM INLET AND OUTLET PIPES. SEDIMENTS SHOULD BE TESTED FOR TOXICANTS IN COMPLIANCE WITH APPLICABLE DISPOSAL REQUIREMENTS IF LAND USES IN THE CATCHMENT INCLUDE COMMERCIAL OR INDUSTRIAL ZONES, OR IF INDICATIONS OF POLLUTION ARE NOTICED.

QUARTERLY:
- FLOATING DEBRIS SHOULD BE REMOVED.

ONCE PER YEAR:
- INSPECTION OF SUBSURFACE VAULT AND CONTROL STRUCTURES.

3

BIOINFILTRATION SYSTEMS

MAINTENANCE GUIDELINES:

PROPERLY DESIGNED AND INSTALLED BIOINFILTRATION SYSTEMS REQUIRE LITTLE MAINTENANCE. DURING PERIODS OF
EXTENDED DROUGHT, BIOINFILTRATION SYSTEMS MAY REQUIRE WATERING APPROXIMATELY EVERY 10 DAYS.

ACTIVITY SCHEDULE

AS NEEDED:
- WATER PLANTS DURING FIRST GROWING SEASON
- WATER PLANTS DURING DRY PERIODS AFTER FIRST GROWING SEASON
- REMULCH VOID AREAS
- TREAT DISEASED TREES AND SHRUBS
- KEEP OVERFLOW FREE AND CLEAR OF LEAVES

MONTHLY:
- INSPECT SOIL AND REPAIR ERODED AREAS
- REMOVE LITTER AND DEBRIS
- CLEAR LEAVES AND DEBRIS FROM OVERFLOW

TWICE PER YEAR:
- INSPECT TREES AND SHRUBS TO EVALUATE HEALTH

ONCE PER YEAR:
- ADD ADDITIONAL MULCH
- INSPECT FACILITY AND PRETREATMENT AREAS FOR SEDIMENT BUILDUP, EROSION, VEGETATIVE CONDITIONS, ETC.

STORMTRAP MAINTENANCE PROCEDURE

1. DO NOT ENTER THE STORMTRAP SYSTEM UNLESS PROPERLY TRAINED, EQUIPPED, AND QUALIFIED TO ENTER A CONFINED SPACE AS IDENTIFIED BY LOCAL OCCUPATIONAL SAFETY AND HEALTH REGULATIONS.
2. STORMTRAP RECOMMENDS AN ANNUAL INSPECTION. FREQUENCY OF CLEANING WILL VARY DUE TO SITE CONDITIONS AND STORAGE CAPACITY. STORMTRAP RECOMMENDS MAINTENANCE WHEN THE SEDIMENT OCCUPIES MORE THAN ONE–TENTH OF THE SYSTEM'S VOLUME. ALSO REFER TO LOCAL MUNICIPALITY REGULATIONS FOR THEIR MAINTENANCE REQUIREMENTS AND SCHEDULES. INSPECTIONS SHOULD BE A PART OF THE UNIVERSITY'S STANDARD OPERATING PROCEDURE.
3. MAINTENANCE IS TYPICALLY PERFORMED USING A VACUUM TRUCK, REMOVE MANHOLE COVER AT GRADE AND LOWER VAC HOSE INTO STORMTRAP SYSTEM (OR SUMP PIT WITHIN SYSTEM IF APPLICABLE). SEDIMENT SHOULD BE FLUSHED TOWARDS VAC HOSE TO PROVIDE FOR THOROUGH REMOVAL. WHEN FINISHED, REPLACE ALL COVERS THAT WERE REMOVED.

STORMTRAP OPERATION AND MAINTENANCE RECOMMENDATIONS

STORMTRAP RECOMMENDS MAINTENANCE OF THE WATER QUALITY STRUCTURE WHEN SEDIMENT ACCUMULATES AND AFFECTS THE FUNCTIONALITY OF THE SYSTEM. THE FREQUENCY OF MAINTENANCE WILL BE DICTATED BY SPECIFIC SITE CHARACTERISTICS, POLLUTANT LOADS, AND UPSTREAM WATERSHED CONDITIONS. THEREFORE, STORMTRAP RECOMMENDS INSPECTING THE WATER QUALITY STRUCTURE ON A QUARTERLY BASIS FOR THE FIRST YEAR OF OPERATION TO ESTABLISH THE REQUIRED MAINTENANCE INTERVALS. AT A MINIMUM, THE STRUCTURE SHOULD BE INSPECTED EVERY SIX MONTHS AND CLEANED OUT AT LEAST EVERY TWELVE MONTHS.

THE DISTANCE BETWEEN THE FINISHED GRADE AND THE INVERT OF THE STRUCTURE SHOULD BE MEASURED AND RECORDED WHEN THE STRUCTURE IS FIRST INSTALLED. WHEN INSPECTING THE SYSTEM, MEASURE THE DISTANCE FROM FINISHED GRADE TO THE TOP OF THE SEDIMENT INSIDE THE SYSTEM. COMPARE THIS TO THE MEASUREMENT RECORDED WHEN THE STRUCTURE WAS FIRST INSTALLED TO DETERMINE WHETHER CLEAN–OUT IS NEEDED. STORMTRAP RECOMMENDS CLEAN–OUT WHEN THE SEDIMENT DEPTH REACHES 1'–0".

MAINTENANCE CAN BE PERFORMED WITH A VACUUM TRUCK AND PRESSURIZED WATER HOSE THROUGH MANHOLE OPENINGS LOCATED ABOVE THE STRUCTURE. AT A MINIMUM, STORMTRAP RECOMMENDS HAVING ONE ACCESS POINT LOCATED WITHIN THE TOP SLAB OF THE STRUCTURE. ENTRY INTO THE WATER QUALITY STRUCTURE IS NOT REQUIRED FOR ROUTINE MAINTENANCE PROCEDURES; HOWEVER, IF ENTRY INTO THE STRUCTURE IS NEEDED IT SHOULD BE CONSIDERED AN OSHA CONFINED SPACE AND ALL APPLICABLE OSHA GUIDELINES SHOULD BE FOLLOWED.

DURING MAINTENANCE OPERATIONS, OILS AND FLOATABLES SHOULD BE REMOVED FIRST BY SKIMMING OFF THE TOP LAYER OF WATER WITH A VACUUM TRUCK. NEXT, THE SEDIMENT AT THE BOTTOM OF THE STRUCTURE CAN BE REMOVED. FINALLY, SEDIMENT STILL REMAINING IN THE SYSTEM SHOULD BE REMOVED BY USING A PRESSURIZED WATER HOSE AT ONE END OF THE SYSTEM TO FORCE THE SEDIMENT TO THE OPPOSITE END OF THE SYSTEM WHERE THE VACUUM TRUCK CAN BE USED TO REMOVE THE SEDIMENT. THIS FINAL PROCESS SHOULD BE REPEATED IF NECESSARY.

WATER, SEDIMENT AND OIL FROM CLEANING PROCEDURES SHOULD NOT BE DISPOSED OF INTO A SANITARY SEWER. ALL DISPOSAL SHOULD FOLLOW FEDERAL, STATE AND LOCAL REQUIREMENTS.

Operation and Maintenance Plan Owner's Certification Statement

Property Name: Skinner West Elementary School

Property Address: 1216 W. Adams Street
Chicago, IL 60607

As the owner(s) of the subject property, by signing this document, I/we acknowledge that I/we have received and reviewed the Operation and Maintenance Plan, dated _____, and understand its contents. (as required by the Stormwater Management Ordinance, Section 11-18-030).

In the even that I//we were to sell the property, I/we agree to give a copy of the Plan to the new owner(s) and the Owner's Certification Statement for signature. The signed Certification Statement must be submitted to the City's Department of Buildings upon transfer of ownership.

I/we further agree to adhere to the maintenance schedule of the best management practices stipulated in the Plan. I/we also acknowledge that if I/we don't maintain the measures as shown in the Plan, upon City inspection, I/we could be liable for a violation of the City's Municipal Code (according to Stormwater Management Ordinance Section 11-18-130).

_____
Initial Owner(s) Printed Name

_____ _____ _____
Initial Owner(s) Signature Date Notary Public

_____
2nd Owner(s) Printed Name

_____ _____ _____
2nd Owner(s) Signature Date Notary Public

_____
3rd Owner(s) Printed Name

_____ _____ _____
3rd Owner(s) Signature Date Notary Public

NORTH

GRAPHIC SCALE
20' 0 20' 40'
(IN FEET)
1 inch = 20 ft.
ALL DRAWINGS SHALL BE CHECKED FOR PROPER SCALE

SKINNER WEST ELEMENTARY SCHOOL ANNEX
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Title
OPERATION AND MAINTENANCE NOTES

Sheet
C8.1