NOTES :

- (I), (II), (III), DENOTES RAMP TYPE.
- CONSTRUCT ALL CARRIAGE WALKS AND DRIVEWAYS PER CITY OF MILWAUKEE SPECIFICATIONS.
- OFFSET MEASUREMENTS TO TREES, WOOD POLES AND LIGHT POLES ARE TAKEN TO EDGE NEAREST THE CENTERLINE.
- OFFSET MEASUREMENTS TO HYDRANTS ARE TAKEN TO THE OPERATING NUT.
- GRADE & PLACE 1.5' WIDTH OF SOD IN LAWN AREAS DISTURBED BY CONSTRUCTION, UNLESS OTHERWISE DIRECTED.
- ANY TREE TO BE REMOVED AS PART OF THIS PROJECT WILL BE INDICATED IN THE CONTRACT SPECIAL PROVISIONS.
- INTERNAL MANHOLE SEALS ARE REQUIRED IN ALL MANHOLES MARKED 'SAN' (SANITARY).
- IN AREAS OF GRINDING, GRIND TO ACHIEVE
  - .12' MINIMUM COVER AT FLANGES,
  - .17' AT BUTT JOINTS, AND
  - .21' MINIMUM ELSEWHERE.
- PROJECT IS DESIGNED TO BE CONSTRUCTED IN TWO EQUAL PASSES WITH A 0.10' CROWN IN EACH PASS, REDUCING THROUGH THE INTERSECTIONS AS SHOWN.
- REMOVE ALL ASPHALTIC PATCHES WITHIN THE LIMITS OF CONSTRUCTION.

CONDITION OF CONCRETE
BROKEN
BLUE LINED
BACK PITCHED
CRACKED
EXCESSIVE PITCH
HEAVED
JOINT FAILURE
MUD JACKED
PATCHED
POOR CONDITION
SETTLED
SPALLED
VERY GOOD
VERY POOR

ESTIMATE / CERTIFICATE QUANTITIES

	DESCRIPTION	UNIT	ASSESS.	X-ING			PLAN TOT.	PROJ.TOT.
X	MOBILIZATION	L.S.						
X	FINISHING ROADWAY	L.S.						
X	BARRICADING AND SIGNING	L.S.						
X	CUTTING	C.Y.						
X	ROADWAY CUTTING	C.Y.						
X	FILLING	C.Y.						
X	ROADWAY FILLING	C.Y.						
X	PAVEMENT REMOVAL	S.Y.						
X	BITUMINOUS SURFACE REMOVAL	S.Y.						
X	CURB &/OR CURB & GUTTER REMOVAL	L.F.						
X	CONC.WALK &/OR DRIVEWAY REMOVAL	S.F.						
X	SAWING (FULL DEPTH)	L.F.						
X	SAWING	L.F.						
	TREES CLEARING	I.D.						
	TREES GRUBBING	I.D.						
X	MOUNTABLE CONCRETE CURB & GUTTER	L.F.						
X	V.T. CONC.WALK &/OR DRIVEWAY	C.Y.						
X	5" CONCRETE WALK	S.F.						
X	7" CONCRETE DRIVEWAY	S.F.						
	CONCRETE PAVEMENT	S.Y.						
	7" CONCRETE ALLEY PAVEMENT	S.Y.						
X	V.T. CONCRETE BASE	C.Y.						
X	CONCRETE BASE	S.Y.						
X	TACK COAT	GAL.						
X	BASE PREP. FOR ASPHALT SURFACE	L.S.						
X	V.T.ASPH.CONC.PAV'T.(MAX.)	S.Y.						
X	CRUSHED STONE BASE							
	CRUSHED GRAVEL BASE							
X	GRAVEL FILLING	TON						
X	SODDING	S.Y.						
X	TOPSOIL	C.Y.						
X	PAVEMENT GRINDING (ASPHALT)	S.Y.						
X	PAVEMENT GRINDING (CONCRETE)	S.Y.						
	SEALING PAV'T JOINTS & CRACKS	S.Y.						
X	MANHOLE RINGS	EACH						
X	SEWER FRAME ADJUSTMENT	V.F.						
X	MANHOLE SEAL (CITY FURNISHED)	EACH						
X	EROSION CONTROL (TYPE M)	EACH						
X	CRACK & SEAT	S.Y.						
X	CRACK & JOINT REPAIR	L.F.					[illegible]	2200

DEPARTMENT OF PUBLIC WORKS
INFRASTRUCTURE SERVICES DIVISION
FIELD OPERATIONS
FIELD & DESIGN ENGINEERING
MILWAUKEE, WISCONSIN

225

PLAN OF: W. TOWER AVE. (10500W, 8100N)

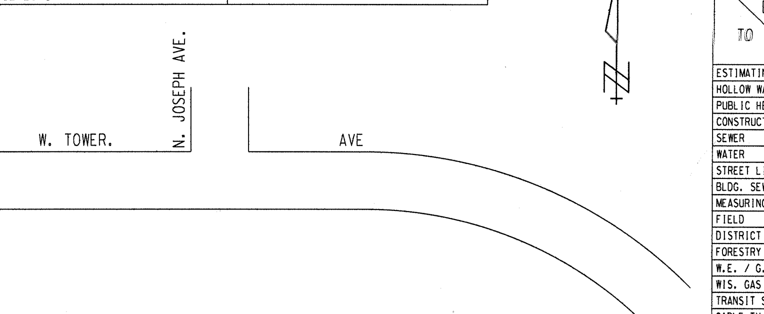
N. 105TH ST. TO W. TERRA AVE.(INCL. W. TERRA AVE.-TOWER TO N. 102ND)

THIS SECTION: N. 105TH ST. TO 325' EAST OF N. JOSEPH AVE.

DRAWN BY	JASON BARMAN	DATE: 1/29/13	PROJECT NO. ST211130108		SHEET 1 OF 3
DESCRIPTIONS BY	JASON BARMAN	DATE: 1/29/13			
LEVELS BY	ALVEY	DATE:	SCALE	1/4 SEC.	ALD.DIST.
LEVELS TRANSF. BY	ALVEY	DATE:	1"=10'	73	9
DESIGNED BY	D.GEHRING	DATE: 3/16/13	OBSTRUCTIONS - SEE OBSTRUCTION LIST		
GRADES TRANSF. BY	B.MATHENY	DATE: 4/30/13	REVISED: 11/6/13 Walk Deleted		
CHECKED BY	DVCHOW / CLATOWSKI	DATE: 8/7/13	REVISED:		
APPROVED BY	[signature]	DATE: 8/9/13	REVISED:		
FILE: V:\PWELIB\PAVING\29210_NOWALK.FIN					
PLOT DATE: 29-JUL-2013					

ENTIRE PROJECT

STORM DRAINAGE UNITS		
C.B.W.- 0	RESET- 10	ABANDON- 0
PROJECT IN SEPARATED AREA		



EROSION CONTROL AND C.B. REQUISITION PLAN

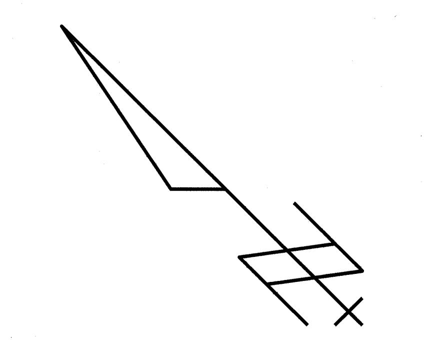
	TYPE M	☒ - CBW	☐ - RESET	X - ABANDON	☐
THIS SHEET	2	0	2	0	NO WORK
ENTIRE PROJECT	12	0	10	0	

TO \ DATE	11/8/13	1/8/14			
ESTIMATING	1				
HOLLOW WALKS	1				
PUBLIC HEARING	1				
CONSTRUCTION	1	6			
SEWER	1				
WATER	1				
STREET LIGHTING	1				
BLDG. SEWERS	1				
MEASURING		1			
FIELD		1			
DISTRICT FILE	2				
FORESTRY	1				
W.E. / G.O.					
WIS. GAS CO.	1				
TRANSIT SYSTEM					
CABLE TV					
UND. GRD. COND.	1				
WATER DIST.	1				
WEPCO N/S	1				
WEPCO S/S					
SEWER SERVICES					
UTILITY COOR.	1				
Traffic Eng RM 506	1	15			
PLAN SIZE					

N. 105TH TO W. TERRA AVE (& W TERRA AVE - TOWER TO N 102ND) (1 OF 3) # 29210 11"x17" ST211130108

NOTES :

- (I), (II), (III), DENOTES RAMP TYPE.
- CONSTRUCT ALL CARRIAGE WALKS AND DRIVEWAYS PER CITY OF MILWAUKEE SPECIFICATIONS.
- OFFSET MEASUREMENTS TO TREES, WOOD POLES AND LIGHT POLES ARE TAKEN TO EDGE NEAREST THE CENTERLINE.
- OFFSET MEASUREMENTS TO HYDRANTS ARE TAKEN TO THE OPERATING NUT.



ESTIMATE / CERTIFICATE QUANTITIES

DESCRIPTION	UNIT	ASSESS.	X-ING			PLAN TOT.	PROJ.TOT.
MOBILIZATION	L.S.						
FINISHING ROADWAY	L.S.						
BARRICADING AND SIGNING	L.S.						
CUTTING	C.Y.						
ROADWAY CUTTING	C.Y.						
FILLING	C.Y.						
ROADWAY FILLING	C.Y.						
PAVEMENT REMOVAL	S.Y.						
BITUMINOUS SURFACE REMOVAL	S.Y.						
CURB &/OR CURB & GUTTER REMOVAL	L.F.						
CONC.WALK &/OR DRIVEWAY REMOVAL	S.F.						
SAWING (FULL DEPTH)	L.F.						
SAWING	L.F.						
TREES CLEARING	I.D.						
TREES GRUBBING	I.D.						
CONCRETE CURB & GUTTER	L.F.						
V.T. CONC.WALK &/OR DRIVEWAY	C.Y.						
5" CONCRETE WALK	S.F.						
7" CONCRETE DRIVEWAY	S.F.						
CONCRETE PAVEMENT	S.Y.						
7" CONCRETE ALLEY PAVEMENT	S.Y.						
V.T. CONCRETE BASE	C.Y.						
CONCRETE BASE	S.Y.						
TACK COAT	GAL.						
BASE PREP. FOR ASPHALT SURFACE	L.S.						
V.T.ASPH.CONC.PAV'T.(MAX.)	S.Y.						
CRUSHED STONE BASE							
CRUSHED GRAVEL BASE							
GRAVEL FILLING	TON						
SODDING	S.Y.						
TOPSOIL	C.Y.						
PAVEMENT GRINDING (ASPHALT)	S.Y.						
PAVEMENT GRINDING (CONCRETE)	S.Y.						
SEALING PAV'T JOINTS & CRACKS	S.Y.						
MANHOLE RINGS	EACH						
SEWER FRAME ADJUSTMENT	V.F.						
MANHOLE SEAL (CITY FURNISHED)	EACH						
EROSION CONTROL (TYPE M)	EACH						

CONDITION OF CONCRETE	
B	BROKEN
BL	BLUE LINED
BP	BACK PITCHED
C	CRACKED
EP	EXCESSIVE PITCH
H	HEAVED
JF	JOINT FAILURE
MJ	MUD JACKED
P	PATCHED
PC	POOR CONDITION
S	SETTLED
SP	SPALLED
VGC	VERY GOOD
VPC	VERY POOR

DEPARTMENT OF PUBLIC WORKS
INFRASTRUCTURE SERVICES DIVISION
FIELD OPERATIONS
FIELD & DESIGN ENGINEERING
MILWAUKEE, WISCONSIN

FILE NO. 226

PLAN OF: W. TOWER AVE. (10500W, 8100N)

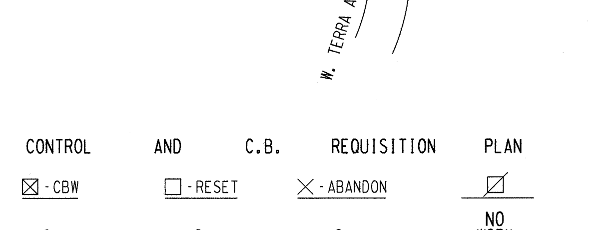
N. 105TH ST. TO W. TERRA AVE.(INCL. W. TERRA AVE.-TOWER TO N. 102ND)

THIS SECTION: 325' EAST OF N. JOSEPH AVE. TO W. TERRA AVE.

DRAWN BY	JASON BARMAN	DATE: 1/29/13	PROJECT NO.		
DESCRIPTIONS BY	JASON BARMAN	DATE: 1/29/13	ST211130108	SHEET 2 OF 3	
LEVELS BY	ALVEY	DATE:	SCALE	1/4 SEC.	ALD.DIST.
LEVELS TRANSF. BY	ALVEY	DATE:	1" = 10'	73	9
DESIGNED BY	D.GEHRING	DATE: 3/16/13	OBSTRUCTIONS - SEE OBSTRUCTION LIST		
GRADES TRANSF. BY	B.MATHENY	DATE: 4/30/13	REVISED: 11/6/13 Walk Deleted		
CHECKED BY	DUCHOW/ULATOWSKI	DATE: 8/8/13	REVISED:		
APPROVED BY	[signature]	DATE: 8/9/13	REVISED:		
FILE: V:\PWELIB\PAVING\29210_NOWALK.FIN					
PLOT DATE: 29-JUL-2013					

THIS SHEET

STORM DRAINAGE UNITS		
C.B.W.- 0	RESET- 6	ABANDON- 0
PROJECT IN SEPARATED AREA		



EROSION CONTROL AND C.B. REQUISITION PLAN

	TYPE M	☒ - CBW	☐ - RESET	✕ - ABANDON	NO WORK
THIS SHEET	6	0	6	0	

TO \ DATE	11/8/13	11/8/13			
ESTIMATING	1				
HOLLOW WALKS	1				
PUBLIC HEARING	1				
CONSTRUCTION	1	6			
SEWER	1				
WATER	1				
STREET LIGHTING	1				
BLDG. SEWERS	1				
MEASURING		1			
FIELD		1			
DISTRICT FILE	2				
FORESTRY	1				
W.E. / G.O.					
WIS. GAS CO.	1				
TRANSIT SYSTEM					
CABLE TV					
UND. GRD. COND.	1				
WATER DIST.	1				
WEPCO N/S	1				
WEPCO S/S					
SEWER SERVICES					
UTILITY COOR.	1				
Traffic Eng RM 506	1	15			
PLAN SIZE					

NOTES :

- Ⓘ, Ⓘ Ⓘ, Ⓘ Ⓘ Ⓘ, DENOTES RAMP TYPE.
- CONSTRUCT ALL CARRIAGE WALKS AND DRIVEWAYS PER CITY OF MILWAUKEE SPECIFICATIONS.
- OFFSET MEASUREMENTS TO TREES, WOOD POLES AND LIGHT POLES ARE TAKEN TO EDGE NEAREST THE CENTERLINE.
- OFFSET MEASUREMENTS TO HYDRANTS ARE TAKEN TO THE OPERATING NUT.

CONDITION OF CONCRETE
B BROKEN
BL BLUE LINED
BP BACK PITCHED
C CRACKED
EP EXCESSIVE PITCH
H HEAVED
JF JOINT FAILURE
MJ MUD JACKED
P PATCHED
PC POOR CONDITION
S SETTLED
SP SPALLED
VG VERY GOOD
VP VERY POOR

ESTIMATE / CERTIFICATE QUANTITIES

DESCRIPTION	UNIT	ASSESS.	X-ING			PLAN TOT.	PROJ.TOT.
MOBILIZATION	L.S.						
FINISHING ROADWAY	L.S.						
BARRICADING AND SIGNING	L.S.						
CUTTING	C.Y.						
ROADWAY CUTTING	C.Y.						
FILLING	C.Y.						
ROADWAY FILLING	C.Y.						
PAVEMENT REMOVAL	S.Y.						
BITUMINOUS SURFACE REMOVAL	S.Y.						
CURB &/OR CURB & GUTTER REMOVAL	L.F.						
CONC.WALK &/OR DRIVEWAY REMOVAL	S.F.						
SAWING (FULL DEPTH)	L.F.						
SAWING	L.F.						
TREES CLEARING	I.D.						
TREES GRUBBING	I.D.						
CONCRETE CURB & GUTTER	L.F.						
V.T. CONC.WALK &/OR DRIVEWAY	C.Y.						
5' CONCRETE WALK	S.F.						
7' CONCRETE DRIVEWAY	S.F.						
CONCRETE PAVEMENT	S.Y.						
7' CONCRETE ALLEY PAVEMENT	S.Y.						
V.T. CONCRETE BASE	C.Y.						
CONCRETE BASE	S.Y.						
TACK COAT	GAL.						
BASE PREP. FOR ASPHALT SURFACE	L.S.						
V.T.ASPH.CONC.PAV'T.(MAX.)	S.Y.						
CRUSHED STONE BASE							
CRUSHED GRAVEL BASE							
GRAVEL FILLING	TON						
SODDING	S.Y.						
TOPSOIL	C.Y.						
PAVEMENT GRINDING (ASPHALT)	S.Y.						
PAVEMENT GRINDING (CONCRETE)	S.Y.						
SEALING PAV'T JOINTS & CRACKS	S.Y.						
MANHOLE RINGS	EACH						
SEWER FRAME ADJUSTMENT	V.F.						
MANHOLE SEAL (CITY FURNISHED)	EACH						
EROSION CONTROL (TYPE M)	EACH						

DEPARTMENT OF PUBLIC WORKS
INFRASTRUCTURE SERVICES DIVISION
FIELD OPERATIONS
FIELD & DESIGN ENGINEERING
MILWAUKEE, WISCONSIN

PLAN OF: W. TOWER AVE. (10500W, 8100N)
N. 105TH ST. TO W. TERRA AVE.(INCL. W. TERRA AVE.-TOWER TO N 102ND)
THIS SECTION: W. TERRA AVE. TO N. 102ND ST.

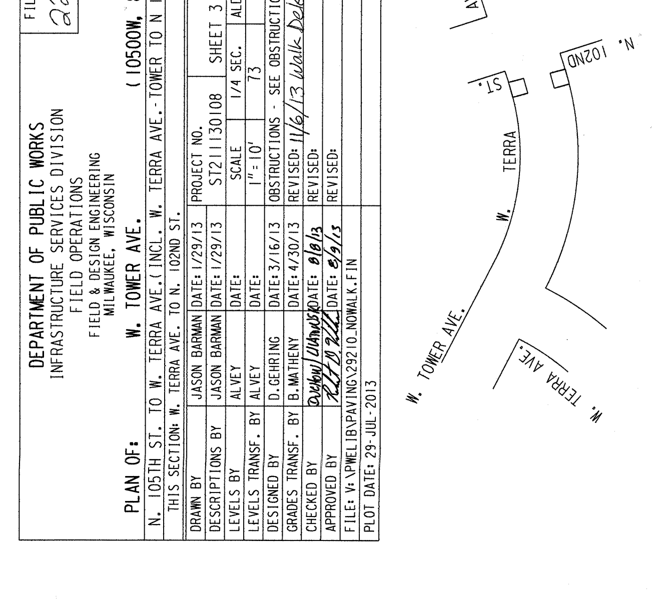
DRAWN BY	JASON BARMAN	DATE: 1/29/13
DESCRIPTIONS BY	JASON BARMAN	DATE: 1/29/13
LEVELS BY	ALVEY	DATE:
LEVELS TRANSF. BY	ALVEY	DATE:
DESIGNED BY	D.GEHRING	DATE: 3/16/13
GRADES TRANSF. BY	B.MATHENY	DATE: 4/30/13
CHECKED BY	[signature]	DATE: 8/8/13
APPROVED BY	[signature]	DATE: 8/9/13
FILE: V:\PWELIB\PAVING\29210_NOWALK.FIN		
PLOT DATE: 29-JUL-2013		

PROJECT NO. ST211130108	SHEET 3 OF 3
SCALE 1"=10'	1/4 SEC. 73 / ALD.DIST. 9
OBSTRUCTIONS - SEE OBSTRUCTION LIST	
REVISED: 11/6/13 Walk Deleted	
REVISED:	
REVISED:	

FILE NO. 227

THIS SHEET
STORM DRAINAGE UNITS
C.B.W.- 0 RESET- 2 ABANDON- 0
PROJECT IN SEPARATED AREA

TO	DATE
ESTIMATING	1
HOLLOW WALKS	1
PUBLIC HEARING	1
CONSTRUCTION	6
SEWER	1
WATER	1
STREET LIGHTING	1
BLDG. SEWERS	1
MEASURING	
FIELD	1
DISTRICT FILE	2
FORESTRY	1
W.E. / G.O.	
WIS. GAS CO.	
TRANSIT SYSTEM	1
CABLE TV	
UND. GRD. COND.	
WATER DIST.	1
WEPCO N/S	1
WEPCO S/S	
SEWER SERVICES	
UTILITY COOR.	1
Traffic Eng	1
RM 506	
PLAN SIZE	15



THIS SHEET: EROSION CONTROL TYPE M 4

AND C.B. REQUISITION: ☒ -CBW 0 ☐ -RESET 2 X -ABANDON 0

PLAN: NO WORK

29210 # ST211130108 12" X 90' W. TOWER AVE. - N. 105TH TO W. TERRA AVE (& W TERRA - TOWER TO N 102ND) (3 OF 3)