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 AND PLACE 1.5' WIDTH SOD IN LAWN AREAS DISTURBED BY CONSTRUCTION UNLESS OTHERWISE INDICATED.
- PROJECT IS DESIGNED TO BE CONSTRUCTED WITH EQUAL PASSES WITH CROWNS AS INDICATED IN EACH PASS, REDUCING THROUGH THE INTERSECTION(S) AS SHOWN.
- IN AREAS OF GRINDING, GRIND TO ACHIEVE .12' MINIMUM COVER AT FLANGES AND .17' AT BUTT JOINTS AND 0.21' MINIMUM ELSEWHERE.
- INTERNAL MANHOLE SEALS ARE REQUIRED IN ALL MANHOLES MARKED 'SAN'(SANITARY).
- ANY TREES TO BE REMOVED AS A PART OF THE PROJECT, WILL BE NOTED IN SPECIAL PROVISIONS.
- PITCH FLANGE .08 UNLESS OTHERWISE SHOWN.
- REMOVE ALL ASPHALT PATCHES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO CRACK AND SEAT.

## 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. | | | | | | |
| | ROADWAY CUTTING | C.Y. | | | | | | |
| X | FILLING | C.Y. | | | | | | |
| | ROADWAY FILLING | C.Y. | | | | | | |
| | PAVEMENT REMOVAL | S.Y. | | | | | | |
| | 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 | CONCRETE CURB & GUTTER | L.F. | | | | | | |
| | 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. | | | | | | |
| | 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. | | | | | | |
| | CRUSHED STONE BASE | | | | | | | |
| | CRUSHED GRAVEL BASE | | | | | | | |
| X | GRAVEL FILLING | TON | | | | | | |
| X | SODDING | S.Y. | | | | | | |
| X | TOPSOIL | C.Y. | | | | | | |
| X | PAVEMENT GRINDING (ASPHALT) | S.Y. | | | | | | |
| | PAVEMENT GRINDING (CONCRETE) | S.Y. | | | | | | |
| | SEALING PAV'T JOINTS & CRACKS | S.Y. | | | | | | |
| | 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 | JT/CRACK REPAIR | L.F. | | | | | | 2000 |

THIS SHEET

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

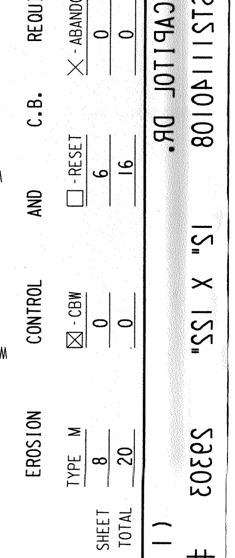
FILE NO. 434

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

PLAN OF: N. 77TH ST.
W. KEEFE AVE. TO W. CAPITOL DR.
THIS SECTION: W. KEEFE AVE. TO STA. 8 + 75

| | | | | |
|---|---|---|---|---|
| DRAWN BY | D. BEKELE | DATE: 11-5-13 | PROJECT NO. | SHEET 1 OF 3 |
| DESCRIPTIONS BY | D. BEKELE | DATE: 11-5-13 | ST211140108 | |
| LEVELS BY | M. BRESINA | DATE: 10-31-13 | SCALE | 1/4 SEC. / ALD.DIST. |
| LEVELS TRANSF. BY | | DATE: | 1" = 10' | 263 / 5 |
| DESIGNED BY | M. MANHARDT | DATE: 4-4-14 | OBSTRUCTIONS - SEE OBSTRUCTION LIST | |
| GRADES TRANSF. BY | A. GLATZEL | DATE: 5-30-14 | REVISED: | |
| CHECKED BY | D. Ulrich | DATE: 8/1/14 | REVISED: | |
| APPROVED BY | | DATE: 8/7/14 | REVISED: | |
| FILE: V:\PWELIB\PAVING\29303.FIN | | | | |
| PLOT DATE: 25-JUL-2014 | | | | |

| DATE / TO | 8/8/14 | 1/28/15 |
|---|---|---|
| ESTIMATING | 1 | |
| HOLLOW WALKS | 1 | |
| PUBLIC HEARING | 1 | |
| CONSTRUCTION | 1 | 6 |
| SEWER | 1 | |
| WATER | 1 | |
| STREET LIGHTING | 1 | |
| BLDG. SEWERS | | |
| MEASURING | | 1 |
| FIELD | | |
| DISTRICT FILE | 2 | |
| FORESTRY | 1 | |
| W.E. / G.O. | | |
| WIS. GAS CO. | | |
| TRANSIT SYSTEM | | |
| CABLE TV | | |
| UND. GRD. COND. | 1 | |
| WATER DIST. | 1 | |
| WEPCO N/S | | |
| WEPCO S/S | | |
| SEWER SERVICES | | |
| UTILITY COOR. | 1 | |
| Traffic Eng / RM 506 | 1 | 6 |
| PLAN SIZE | 12" X 122" | |




| | EROSION CONTROL | AND C.B. | REQUISITION | | PLAN |
|---|---|---|---|---|---|
| | TYPE M | CBW | RESET | ABANDON | NO WORK |
| THIS SHEET | 8 | 0 | 6 | 0 | |
| PROJECT TOTAL | 20 | 0 | 16 | 0 | |

W. KEEFE AVE. TO STA. 8+75

N. 77TH ST. - W. KEEFE AVE. TO W. CAPITOL DR.

(1 OF 3) # 29303 12" X 122" ST211140108

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 | | | | | | |

FILE NO. 435

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

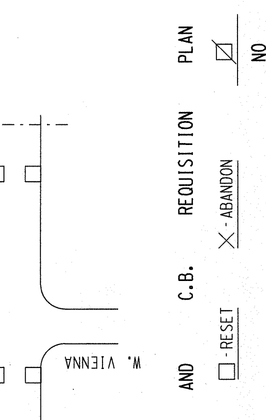
PLAN OF: N. 77TH ST.
W. KEEFE AVE. TO W. CAPITOL DR.
THIS SECTION: STA. 8+75 TO STA. 17+75

| | | | | |
|---|---|---|---|---|
| DRAWN BY | D. BEKELE | DATE: 11-5-13 | PROJECT NO. ST211140108 | SHEET 2 OF 3 |
| DESCRIPTIONS BY | D. BEKELE | DATE: 11-5-13 | | |
| LEVELS BY | M. BRESWA | DATE: 10-31-13 | SCALE 1" = 10' | 1/4 SEC. 263 / ALD. DIST. 5 |
| LEVELS TRANSF. BY | | DATE: | | |
| DESIGNED BY | MANHARDT | DATE: 4-4-14 | OBSTRUCTIONS - SEE OBSTRUCTION LIST | |
| GRADES TRANSF. BY | A. GLATZEL | DATE: 5-30-14 | REVISED: | |
| CHECKED BY | D. Ulatowski | DATE: 8/1/14 | REVISED: | |
| APPROVED BY | [signature] | DATE: 8/7/14 | REVISED: | |
| FILE: V:\PWELIB\PAVING\29303.FIN | | | | |
| PLOT DATE: 25-JUL-2014 | | | | |

THIS SHEET

| STORM DRAINAGE UNITS | | |
|---|---|---|
| C.B.W. - 0 | RESET - 4 | ABANDON - 0 |
| PROJECT IN SEPARATED AREA | | |

| TO / DATE | 8/8/14 | 1/23/15 |
|---|---|---|
| ESTIMATING | 1 | |
| HOLLOW WALKS | 1 | |
| PUBLIC HEARING | 1 | |
| CONSTRUCTION | 1 | 6 |
| SEWER | 1 | |
| WATER | 1 | |
| STREET LIGHTING | 1 | |
| BLDG. SEWERS | | |
| MEASURING | | 1 |
| FIELD | | |
| DISTRICT FILE | 2 | |
| FORESTRY | 1 | |
| W.E. / G.O. | | |
| WIS. GAS CO. | | |
| TRANSIT SYSTEM | | |
| CABLE TV | | |
| UND. GRD. COND. | 1 | |
| WATER DIST. | 1 | |
| WEPCO N/S | | |
| WEPCO S/S | | |
| SEWER SERVICES | | |
| UTILITY COOR. | 1 | |
| Traffic Eng. BM 506 | 1 | 6 |
| PLAN SIZE | 12" X 122" | |




| THIS SHEET | EROSION CONTROL | AND | C.B. | REQUISITION | PLAN |
|---|---|---|---|---|---|
| | TYPE M | ☒ - CBW | ☐ - RESET | ✕ - ABANDON | ☒ NO WORK |
| | 4 | 0 | 4 | 0 | |

N. 77TH ST. - W. KEEFE AVE. TO W. CAPITOL DR.
STA. 8+75 TO STA. 17+75

(2 OF 3) # 29303 12" X 126" ST211140108

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 | | | | | | |

THIS SHEET

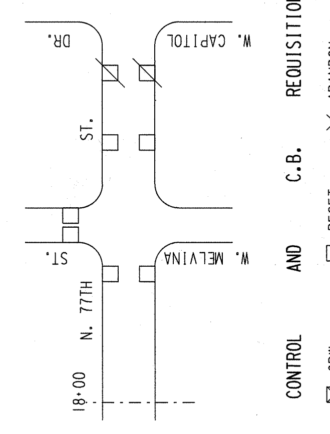
| STORM DRAINAGE UNITS | |
|---|---|
| C.B.W. - 0 | RESET- 6 / ABANDON- 0 |
| PROJECT IN (SEPARATED) AREA | |

FILE NO. 436

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

PLAN OF: N. 77TH ST.
W. KEEFE AVE. TO W. CAPITOL DR.
THIS SECTION: STA. 17+75 TO W. CAPITOL DR.

| | | | | |
|---|---|---|---|---|
| DRAWN BY | D. BEKELE | DATE: 11-5-13 | PROJECT NO. ST211140108 | SHEET 3 OF 3 |
| DESCRIPTIONS BY | D. BEKELE | DATE: 11-5-13 | | |
| LEVELS BY | M. BRESINA | DATE: 10-31-13 | SCALE 1" = 10' | 1/4 SEC. 263 / ALD. DIST. 5 |
| LEVELS TRANSF. BY | | DATE: | | |
| DESIGNED BY | M. MANHARDT | DATE: 4-3-14 | OBSTRUCTIONS - SEE OBSTRUCTION LIST | |
| GRADES TRANSF. BY | A. GLATZEL | DATE: 5-30-14 | REVISED: | |
| CHECKED BY | D. Ulatowski | DATE: 8/1/14 | REVISED: | |
| APPROVED BY | [signature] | DATE: 8/1/14 | REVISED: | |
| FILE: V:\PWELIB\PAVING\29303.FIN | | | | |
| PLOT DATE: 25-JUL-2014 | | | | |




THIS SHEET: EROSION TYPE M 8 — CONTROL ☒-CBW 0 — AND ☐-RESET 6 — C.B. REQUISITION ╳-ABANDON 0 — PLAN ☒ NO WORK

| DATE / TO | 8/8/14 | 1/22/15 | | | | | |
|---|---|---|---|---|---|---|---|
| ESTIMATING | 1 | | | | | | |
| HOLLOW WALKS | | | | | | | |
| PUBLIC HEARING | 1 | | | | | | |
| CONSTRUCTION | 1 | 6 | | | | | |
| SEWER | 1 | | | | | | |
| WATER | 1 | | | | | | |
| STREET LIGHTING | 1 | | | | | | |
| BLDG. SEWERS | | | | | | | |
| MEASURING | | 1 | | | | | |
| FIELD | | | | | | | |
| DISTRICT FILE | 2 | | | | | | |
| FORESTRY | 1 | | | | | | |
| W.E. / G.O. | | | | | | | |
| WIS. GAS CO. | | | | | | | |
| TRANSIT SYSTEM | | | | | | | |
| CABLE TV | | | | | | | |
| UND. GRD. COND. | 1 | | | | | | |
| WATER DIST. | | | | | | | |
| WEPCO N/S | | | | | | | |
| WEPCO S/S | | | | | | | |
| SEWER SERVICES | | | | | | | |
| UTILITY COOR. | 1 | | | | | | |
| Traffic Eng RM 506 | 1 | 6 | | | | | |
| PLAN SIZE | 12" X 122" | | | | | | |

N. 77TH ST. - W. KEEFE AVE. TO W. CAPITOL DR.
STA. 17+75 TO W. CAPITOL DR.
(3 OF 3) # 29303 12" X 126" ST211140108