| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 94-P4031-00-BR | DUPAGE | 54 | 1 |

# STATE OF ILLINOIS
# DEPARTMENT OF TRANSPORTATION
# DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

## WHEATON PARK DISTRICT PEDESTRIAN/BIKE PATH OVER UNION PACIFIC RAILROAD

## SECTION 94-P4031-00-BR
## NEW BRIDGE CONSTRUCTION
## PROJECT: STPE - D001 (422)
## CITY OF WHEATON
## DUPAGE COUNTY
## C-91-455-94

### INDEX OF SHEETS


1. TITLE SHEET
2.-2A. GENERAL NOTES, ALIGNMENTS AND TIES
3. TYPICAL SECTIONS AND SUMMARY OF QUANTITIES
4-5. OVERALL SOIL EROSION, SEDIMENTATION CONTROL PLAN AND DETAILS
5A. RAILROAD R.O.W. FENCE AND ACCESS ROAD LOCATION
6-7. DRAINAGE AND GRADING PLANS
8-11. PLAN & PROFILE: BIKE PATH
12.-13. PLAN & PROFILE: PEDESTRIAN PATH
14.-42. STRUCTURAL PLANS
43.-49. CROSS-SECTIONS: BIKE PATH
50.-53. CROSS-SECTIONS: PEDESTRIAN PATH
53A. ELECTRICAL DETAILS
53B. LIGHTING LAYOUT PLAN
54-54A. CONSTRUCTION DETAILS

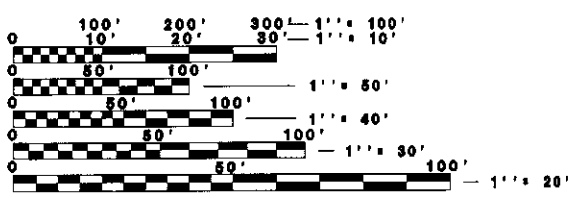

**THE IMPROVEMENT IS LOCATED IN THE CITY OF WHEATON**

### LEGEND

| EXISTING | PROPOSED | DESCRIPTION |
|---|---|---|
| | | MANHOLE |
| | | CATCH BASIN |
| | | INLET |
| | | CLEANOUT |
| | | SLOPE INLET BOX |
| | | HEADWALL |
| | | END SECTION |
| | | STORM SEWER |
| | | SANITARY SEWER |
| | | WATERMAIN |
| | | VALVE & BOX |
| | | WATER VALVE (UNLESS OTHERWISE NOTED) |
| | | WATER VALVE IN VAULT |
| | | FIRE HYDRANT |
| | | CONTOURS |
| (ELEV) | ELEV | ELEVATIONS |
| | | STREET LIGHT |
| | | WATERMAIN PROTECTION |
| | | SILT FENCE INLET PROTECTOR |
| | | TEMPORARY STRAW BALE DITCH CHECK |
| | | OVERFLOW ROUTE |

HIGHWAY STANDARDS

| ITEM | STANDARD NUMBER |
|---|---|
| TEMPORARY EROSION CONTROL SYSTEMS | 280001-02 |
| CURB RAMPS FOR SIDEWALKS | 424001-04 |
| PRECAST REINFORCED CONCRETE FLARED END SECTIONS | 542301 |
| GRATING FOR CONCRETE FLARED END SECTION (FOR 600mm (24") THRU 1350mm (54") PIPE | 542311 |
| METAL END SECTION FOR PIPE CULVERTS | 542401 |
| CATCH BASIN, TYPE A | 602001 |
| MANHOLE, TYPE A | 602401 |
| PRECAST REINFORCED CONCRETE FLAT SLAB TOP | 602601 |
| CAST IRON STEPS | 602701 |
| FRAME AND LIDS, TYPE 1 | 604001-02 |
| GRATE, TYPE 8 | 604036-01 |
| CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER | 606001-02 |
| CHAIN LINK FENCE | 664001-01 |
| ELECTRICAL SERVICE INSTALLATION DETAIL | 805001 |
| CONCRETE FOUNDATION DETAILS | 878001-02 |

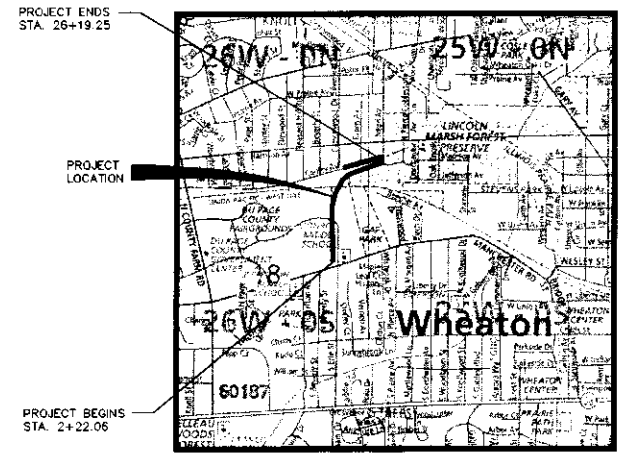



**FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.**

**J.U.L.I.E.**
**JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION**
**1-800-892-0123**

**UNION PACIFIC RAILROAD CROSSING**
**MILE POST - MP 26.20**
**ON GENEVA SUBDIVISION**

| | |
|---|---|
| BIKE PATH PROJECT BEGINS | 2+22.06 |
| BIKE PATH PROJECT ENDS | 26+19.25 |
| PEDESTRIAN PATH PROJECT BEGINS | 121+45.00 |
| PEDESTRIAN PATH PROJECT BEGINS | 129+54.81 |
| GROSS LENGTH OF PROJECT - BIKE PATH | 2397.19 FT. 0.454 MILES |
| GROSS LENGTH OF PROJECT - PEDESTRIAN PATH | 839.81 FT. 0.159 MILES |
| | 3237.00 FT. 0.613 MILES |




**LOCATION MAP**

### BENCH MARKS

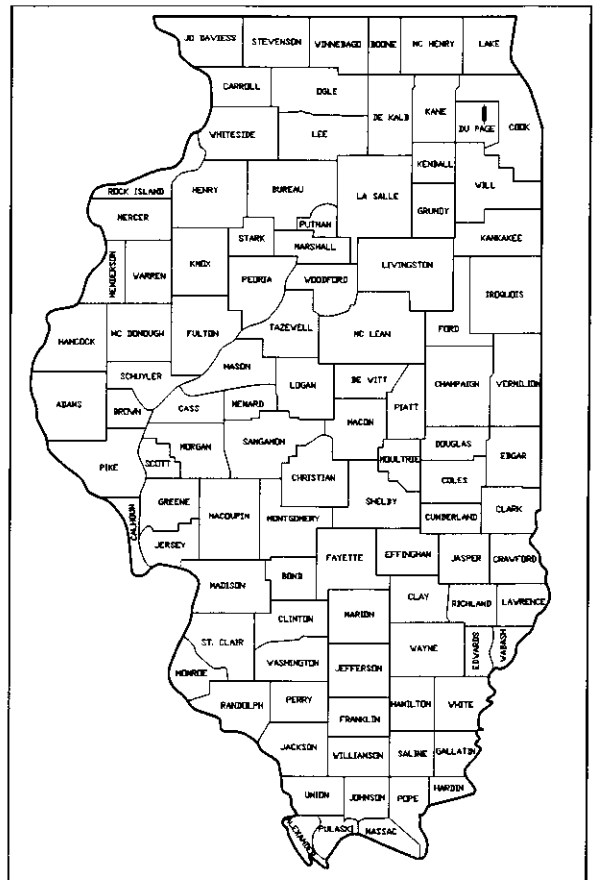
ELEVATION REFERENCE MARKS

DUPAGE COUNTY CONTROL, ALUMINUM DISC # 02943 0.3 MILES EAST OF THE INTERSECTION OF MANCHESTER ROAD AND COUNTY FARM ROAD, ±150' NORTH OF MANCHESTER ROAD.
ELEVATION = 735.26

PROJECT ELEVATION REFERENCE MARKS

RM1-BOLT BETWEEN "MUE" & "LLER" ON THE FIRST FIRE HYDRANT EAST OF ERIE AVENUE ON THE SOUTH SIDE OF MANCHESTER ROAD.
ELEVATION = 757.00

RM2-BOLT UNDER THE LAST "9" IN "1969" ON THE FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF MONROE SCHOOL.
ELEVATION = 755.82




LOCATION OF SECTION INDICATED THUS: -

**WHEATON PARK DISTRICT**

APPROVED _____
EXECUTIVE DIRECTOR
_____, 2005

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**
**DIVISION OF HIGHWAYS**

SUBMITTED _____ 20____

_____
BUREAU OF LOCAL ROADS

_____ 20____

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

**PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS**

**OFFICIAL FILE**
I.C.C. DOCKET NO. T05-0037
Exhibit No. 14
Witness _____
Date 10/5/05 Reporter _____

Case No.
T05-0037

EXHIBIT
14
Blumberg No. 5208

DISTRICT 1 DESIGN PLAN PREPARATION ENGINEER: MAZHAR KHAN (847) 705-4179

**CONTRACT NO. 83560**

COUNTY DUPAGE SECTION 94-P4031-00-BR FAU ROUTE

# CONSTRUCTION SPECIFICATIONS – GENERAL NOTES

## SANITARY SEWER, STORM SEWER, WATERMAIN

1. ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.

2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION TO VERIFY IN THE FIELD ALL EXISTING AND UNDERGROUND UTILITIES ADJACENT TO THE PROJECT, AND BE RESPONSIBLE FOR PROTECTION OF SAME. THE CONTRACTOR SHALL ALSO NOTIFY THE CONSTRUCTION DIVISION OF THE MUNICIPALITY AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

3. ALL STORM MANHOLE, VALVE VAULT, OR CATCH BASIN ADJUSTMENT OF FRAMES SHALL BE MADE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.

4. ALL DRAINAGE STRUCTURES TO HAVE POURED INVERTS CONFORMING TO THE SHAPE OF THE PIPE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.

5. THE CONTRACTOR SHALL BEWARE OF POTENTIAL CONFLICTS WITH EXISTING UTILITIES AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL EXCAVATE AROUND UTILITIES TO DETERMINE ELEVATIONS BEFORE BEGINNING CONSTRUCTION.

6. "BAND-SEAL" OR SIMILAR COUPLINGS SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR MATERIALS IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.

7. ALL EXISTING FIELD DRAINAGE TILE ENCOUNTERED OR DAMAGED DURING CONSTRUCTION ARE TO BE RESTORED TO THEIR ORIGINAL CONDITION, PROPERLY REROUTED AND/OR CONNECTED TO THE STORM SEWER SYSTEM. ALL LOCATIONS OF ENCOUNTERED FIELD DRAINAGE TILE SHALL BE PROPERLY INDICATED ON THE RECORD SET OF RECORD DRAWINGS.

8. AT THE COMPLETION OF THIS PROJECT ONE SET OF RECORD DRAWINGS IS TO BE SUBMITTED TO THE ENGINEER SHOWING THE LOCATION OF ALL OF THE SERVICES, PIPES AND STRUCTURES. THE CONTRACTOR SHALL FURNISH RECORD DRAWING INFORMATION TO THE OWNER DEFINING SANITARY SEWER WYE LOCATIONS FROM THE NEAREST DOWNSTREAM MANHOLE AND THE DISTANCE FROM THE SANITARY SEWER TERMINUS AND ALSO HORIZONTAL TIES BETWEEN WATER B-BOXES AND PROPERTY LINES. A STATEMENT SHALL BE ATTACHED TO THE RECORD MYLAR DRAWINGS THAT "ALL CONSTRUCTION WAS IN SUBSTANTIAL CONFORMANCE WITH THE ENGINEERING PLANS AND SPECIFICATIONS".

9. CONNECTIONS TO EXISTING STORM SYSTEM SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

10. GRANULAR TRENCH BACKFILL SHALL BE USED IN ALL LOCATIONS WHERE THE PROPOSED UNDERGROUND UTILITY IS TO BE CONSTRUCTED UNDER PERMANENT TYPE PAVEMENTS; IN ANY UTILITY TRENCH OVER WHICH ANOTHER UTILITY WILL PASS; OR AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.

11. THE COST OF PIPE BEDDING WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE CONTRACT UNIT PRICES OF THE VARIOUS SEWER ITEMS.

12. ALL STORM SEWER JOINTS SHALL BE CONSTRUCTED UTILIZING "O" RING GASKETS CONFORMING TO IDOT STANDARD SPECIFICATIONS.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL PIPE LINE CROSSINGS PRIOR TO COMMENCEMENT OF ANY UNDERGROUND IMPROVEMENT CONSTRUCTION. ENGINEER SHALL BE NOTIFIED OF VERTICAL CONFLICTS IMMEDIATELY.

**FOR UNDERGROUND UTILITY LOCATIONS, CALL**
**J.U.L.I.E.**
**TOLL FREE**
**TEL. 1-800-892-0123**

## GENERAL

1. WITHIN THE CONSTRUCTION SPECIFICATIONS SHOWN HEREON THE "OWNER" REFERS TO WHEATON PARK DISTRICT AND "CONTRACTOR" REFERS TO THE COMPANY PERFORMING THE WORK.

2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE JANUARY 1, 2002 EDITION OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", 1996 EDITION, THE NATIONAL ELECTRIC CODE AND THE SUBDIVISION AND DEVELOPMENT CODES AND STANDARDS AS PUBLISHED BY THE CITY OF WHEATON. ALL WORK, INCLUDING SOIL EROSION CONTROL, SHALL ALSO BE PERFORMED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL (I.U.M.). IN THE EVENT OF CONFLICTING SPECIFICATIONS, THE ENGINEER AND OWNER SHALL DECIDE WHICH SPECIFICATION SHALL PREVAIL.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND HEALTHFUL WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING EACH OF THE UTILITY COMPANIES BEFORE ANY WORK IS STARTED. ALL UTILITIES MUST BE STAKED PRIOR TO CONSTRUCTION.

5. THE CONTRACTOR SHALL INFORM THE VILLAGE ENGINEER AND THE MUNICIPALITY BEFORE WORK COMMENCES ON EACH CATEGORY OF CONSTRUCTION, I.E. WATERMAIN, SANITARY, STREET AND DRAINAGE IMPROVEMENT. A FORTY EIGHT (48) HOUR NOTICE SHALL BE GIVEN FOR ANY ITEM THAT REQUIRE FINAL TESTING AND INSPECTION SUCH AS WATERMAINS OR SANITARY SEWERS.

6. THE CONTRACTOR SHALL CALL THE ATTENTION OF THE OWNER'S REPRESENTATIVE TO ANY ERRORS OR DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES WHICH ARE ESTABLISHED BY THE CONTRACTOR, AND SHALL NOT PROCEED WITH THE WORK UNTIL ANY LINES AND GRADES WHICH ARE BELIEVED TO BE IN ERROR HAVE BEEN VERIFIED OR CORRECTED BY THE OWNER'S REPRESENTATIVE.

7. CONTRACTORS SHALL KEEP PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS AND WHEN NECESSARY, CLEAN PAVEMENTS ON A DAILY BASIS. THIS WORK AND THE STABILIZED CONSTRUCTION ENTRANCE WORK IS TO BE PERFORMED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.

8. ANY BRACING, SHEETING, OR SPECIAL CONSTRUCTION METHODS DEEMED NECESSARY BY THE CONTRACTOR IN ORDER TO INSTALL THE PROPOSED IMPROVEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT. ANY ADDITIONAL SOILS DATA NEEDED TO CONFIRM THE CONTRACTOR'S OPINIONS OF THE SUBSOIL CONDITIONS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL OBTAIN THE OWNER'S WRITTEN AUTHORIZATION TO ACCESS THE SITE TO CONDUCT A SUPPLEMENTAL SOILS INVESTIGATION.

9. NO NOTE

10. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND IDOT STANDARD SPECIFICATIONS.

11. THE CHAIN LINK FENCE AND CHAIN LINK GATES SHALL BE VINYL-COATED AS PER ARTICLE 1006.27.(a).(1).d. TYPE IV CLASS B (BLACK OR BROWN POLYVINYL CHLORIDE (PVC) - COATED STEEL)

## EARTHWORK AND GRADING

1. WORK UNDER THIS SECTION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS:

   A. CLEARING AND REMOVAL OF ALL UNDESIRABLE TREES AND OTHER VEGETATIVE GROWTH WITHIN THE CONSTRUCTION AREA. TREE REMOVAL SHALL BE DESIGNATED BY THE OWNER AND SHALL BE KEPT TO A MINIMUM.

   B. STRIPPING OF TOPSOIL FROM ALL STREET, DRIVEWAY, PARKING LOT, RIGHT-OF-WAY, BUILDING PAD AND OTHER DESIGNATED STRUCTURAL AREAS.

   C. REMOVAL OF UNSUITABLE MATERIALS AS SPECIFIED FROM BIKE PATH, PEDESTRIAN PATH AND OTHER DESIGNATED AREAS.

   D. CLAY CUT AND CLAY FILL WITH COMPACTION WITHIN BIKE PATH, PEDESTRIAN PATH AND OTHER DESIGNATED AREAS.

   E. EXCAVATION AND GRADING OF THE OPEN SPACE, CONSTRUCTION OF EMBANKMENT, ETC.

   F. PLACEMENT AND COMPACTION OF STRUCTURAL MATERIAL TO THE DESIGN SUBGRADE ELEVATIONS AS REQUIRED BY THE STANDARDS AND DETAILS ON THE CONSTRUCTION PLANS. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE ELEVATIONS AND THAT PAVEMENT AND/OR TOPSOIL REPLACEMENT THICKNESS MUST BE SUBTRACTED TO DETERMINE SUBGRADE ELEVATIONS.

   G. IF REQUIRED, BORROW PIT EXCAVATION OF STRUCTURAL MATERIAL AND REFILL OF PIT WITH NON-STRUCTURAL MATERIAL.

   H. PLACEMENT AND COMPACTION OF NON-STRUCTURAL FILLS.

   L. FINAL SHAPING AND TRIMMING TO THE LINES, GRADES, AND CROSS-SECTIONS SHOWN IN THESE PLANS; AND TOPSOIL PLACEMENT TO DESIGN FINISHED GRADE ELEVATIONS.

   M. SOIL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS.

2. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL NOTIFY THE ENGINEER AT ONCE OF ANY DISCREPANCIES. THE CONTRACTOR SHALL EXAMINE THE DRAINAGE PATTERNS SHOWN ON THE PLANS AND MAKE CERTAIN THAT ALL PAVEMENTS ARE PITCHED PROPERLY TO ACHIEVE THIS DRAINAGE PATTERN.

3. NO NOTE

4. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER ACCEPTABLE METHOD IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIAL CREATED AS A RESULT THEREOF.

5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.

6. THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS, BY THE SOILS ENGINEER OR HIS REPRESENTATIVE. ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, UNSUITABLE REMOVAL AND ITS REPLACEMENT AND OTHER SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE SOILS ENGINEER. NO UNDERCUT SHALL BE PERFORMED WITHOUT AUTHORIZATION FROM OWNER.

7. THE GRADING AND CONSTRUCTION OF THE SITE IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORM WATER. ALL AREAS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.

8. THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISH GRADE. TOPSOIL IS TO BE PLACED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.

9. THE SELECTED STRUCTURAL FILL MATERIAL SHALL BE PLACED IN LEVEL UNIFORM LAYERS IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.

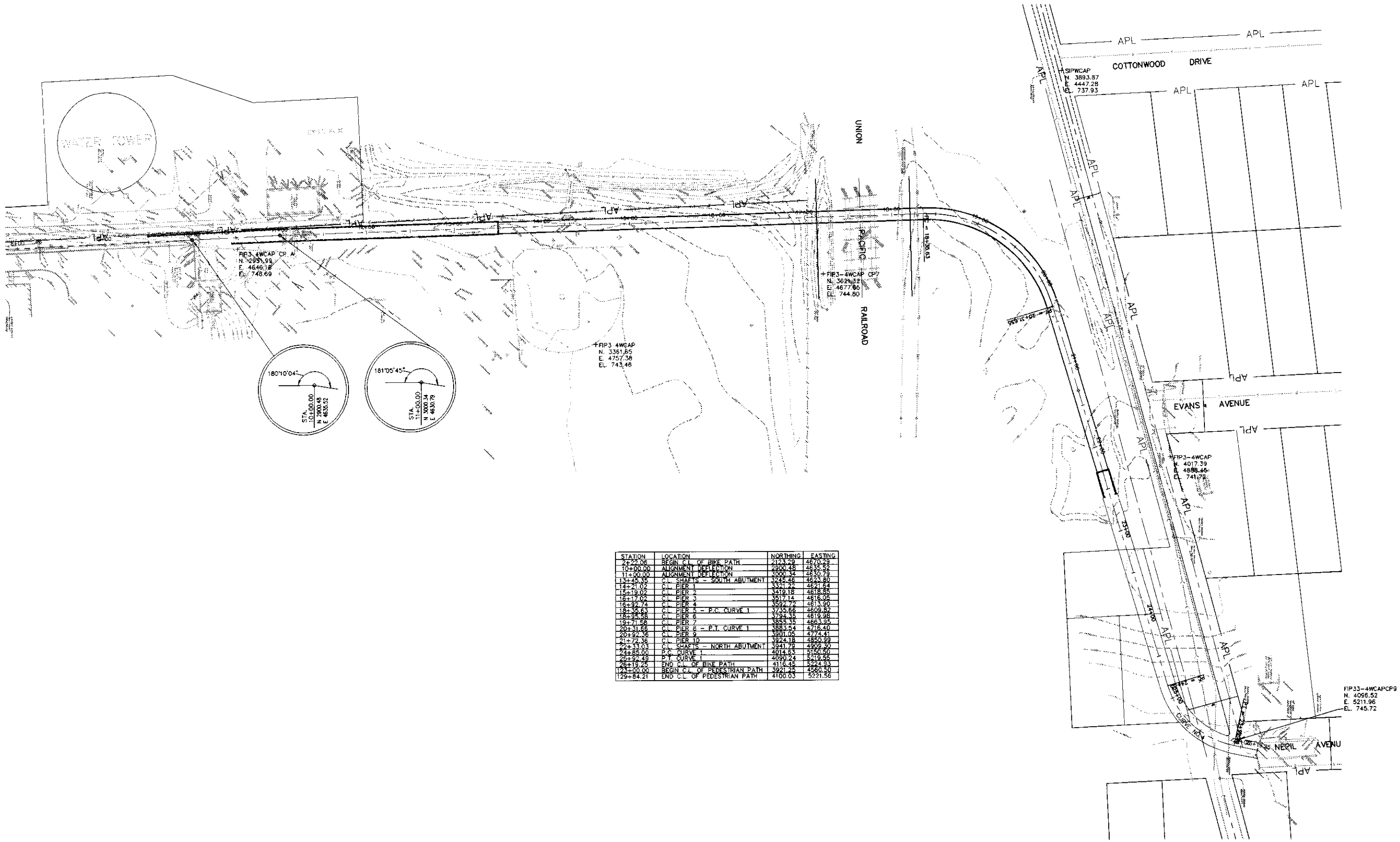
10. EMBANKMENT MATERIAL WITHIN BIKE PATH/PEDESTRIAN PATH AND OTHER STRUCTURAL CLAY FILL AREAS SHALL BE COMPACTED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.

11. THE SURFACE VEGETATION, TOPSOIL AND ANY OBVIOUSLY SOFT UNDERLYING SOIL SHOULD BE STRIPPED FROM ALL AREAS TO RECEIVE STRUCTURAL FILL. IF THE UNDERLYING SUBGRADE SOILS RUT DEEPER THAN ONE INCH UNDER THE CONSTRUCTION EQUIPMENT OR IF THE MOISTURE CONTENT EXCEEDS THAT NEEDED FOR PROPER COMPACTION, THE SOIL SHALL BE SCARIFIED, DRIED AND RECOMPACTED TO THE REQUIRED SPECIFICATIONS (SEE SECTION 301.03 OF THE IDOT SPECIFICATIONS).

12. COMPLETED GRADING (FINISHED FINE GRADE) FOR PROPOSED PAVEMENT SUBGRADE AREAS, SHALL BE WITHIN A TOLERANCE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.

TAB: GENNOTE1

Copyright © 2004 Cemcon, Ltd. All rights reserved




| STATION | LOCATION | NORTHING | EASTING |
|---|---|---|---|
| 2+22.06 | BEGIN C.L. OF BIKE PATH | 2123.29 | 4670.29 |
| 10+00.00 | ALIGNMENT DEFLECTION | 2900.45 | 4635.52 |
| 11+00.00 | ALIGNMENT DEFLECTION | 3000.34 | 4630.79 |
| 13+49.39 | C.L. SHAFTS - SOUTH ABUTMENT | 3245.46 | 4623.80 |
| 14+21.02 | C.L. PIER 1 | 3321.22 | 4621.64 |
| 15+19.02 | C.L. PIER 2 | 3419.18 | 4618.85 |
| 16+17.02 | C.L. PIER 3 | 3517.14 | 4616.05 |
| 16+92.74 | C.L. PIER 4 | 3592.72 | 4613.90 |
| 18+39.63 | C.L. PIER 5 - P.C. CURVE 1 | 3735.66 | 4609.82 |
| 18+95.58 | C.L. PIER 6 | 3794.35 | 4619.28 |
| 19+71.58 | C.L. PIER 7 | 3855.35 | 4663.95 |
| 20+31.66 | C.L. PIER 8 - P.T. CURVE 1 | 3883.54 | 4716.40 |
| 20+92.36 | C.L. PIER 9 | 3901.05 | 4774.41 |
| 21+72.36 | C.L. PIER 10 | 3924.18 | 4850.99 |
| 22+33.03 | C.L. SHAFTS - NORTH ABUTMENT | 3941.79 | 4909.30 |
| 24+85.00 | P.C. CURVE 1 | 4014.53 | 5150.50 |
| 26+92.49 | P.T. CURVE 1 | 4090.24 | 5219.55 |
| 26+19.25 | END C.L. OF BIKE PATH | 4116.45 | 5224.93 |
| 123+00.00 | BEGIN C.L. OF PEDESTRIAN PATH | 3921.25 | 4580.50 |
| 129+84.21 | END C.L. OF PEDESTRIAN PATH | 4100.03 | 5221.56 |

XREF: TOPO/OVERALL
TAB: CONTROL POINTS

Copyright © 2004 Cemcon, Ltd. All rights reserved.

PREPARED FOR:
WHEATON PARK DISTRICT
666 S. MAIN STREET
WHEATON, IL 60187

PREPARED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60504-9675
Ph: 630.862.2100 Fax: 630.862.2199
E-Mail: cadd@cemcon.com Website: www.cemcon.com

REVISIONS

| NO. | DATE | DESCRIPTION | NO. | DATE | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

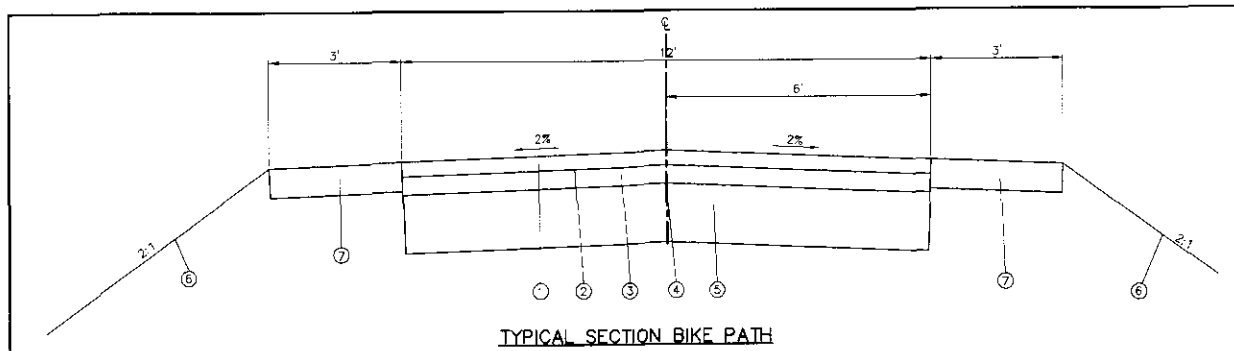
# COORDINATES AND TIES

## PEDESTRIAN/BICYCLE BRIDGE OVER UNION PACIFIC RAILROAD

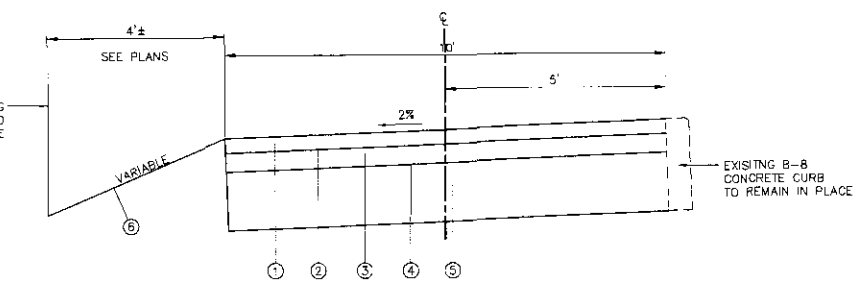
| | | | | |
|---|---|---|---|---|
| FILE NAME: GENNOTES | DSGN. BY: CA/MMH | JOB NO.: 551007 | FLD. BK./PG.: 21-30 | SHEET NO. 2A of 54 |
| DIR: R\551007 | DRN. BY: DRA | DATE: 12-21-04 | SCALE: 1" = 50 | |

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 94-P4031-00-BR | DUPAGE | 54 | 3 |

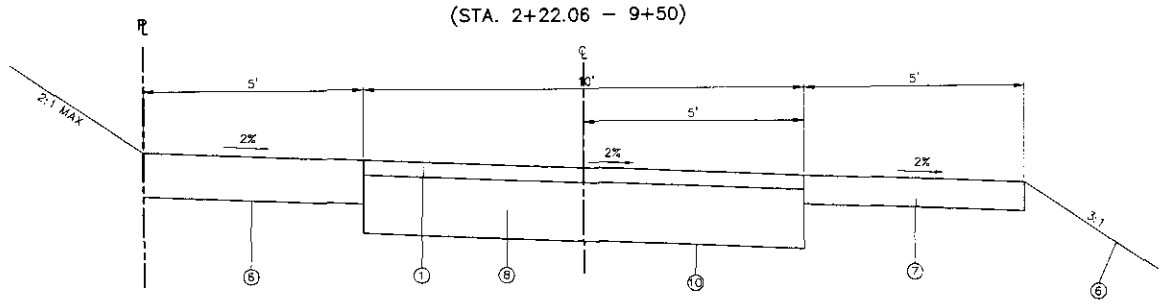
CONTRACT NO. 83560



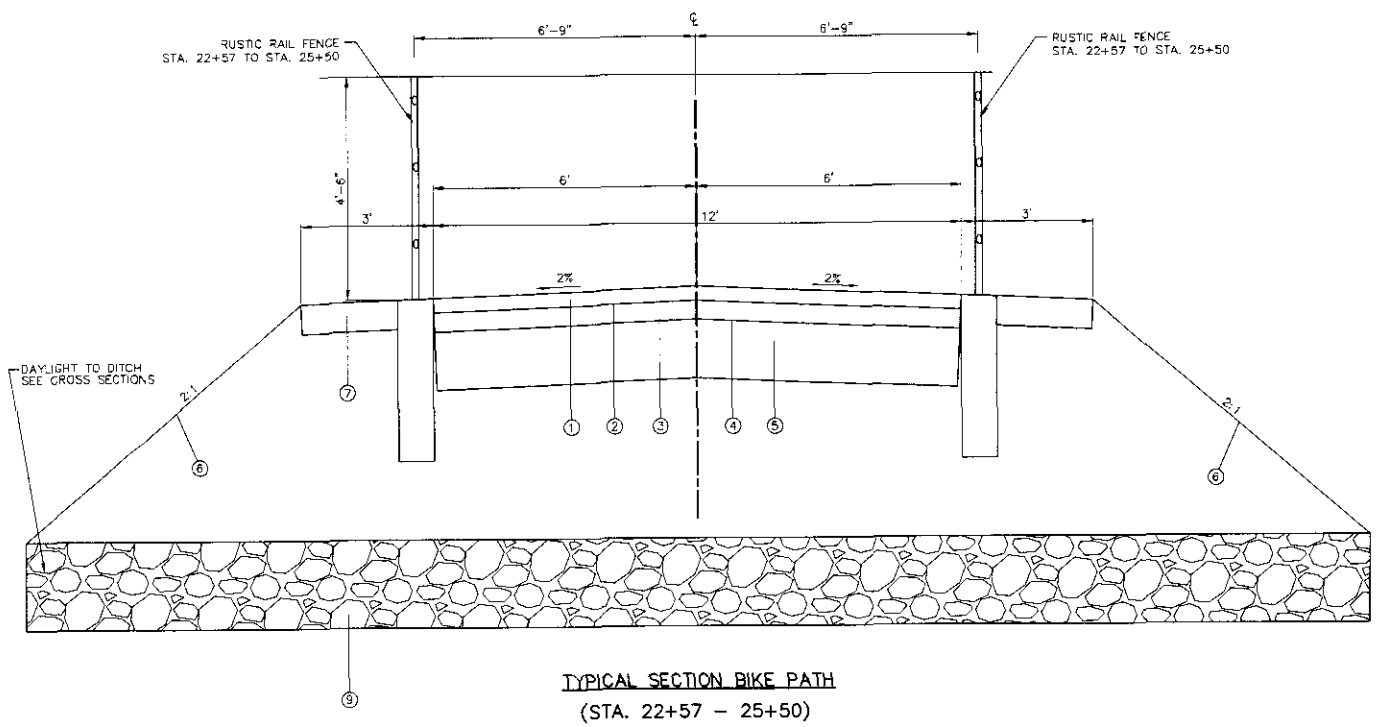

TYPICAL SECTION BIKE PATH
(STA. 25+50 – 26+19.25)




TYPICAL SECTION BIKE PATH
(STA. 2+22.06 – 9+50)




TYPICAL SECTION PEDESTRIAN PATH
STA. 121+45 TO STA. 129+84.81 △1




TYPICAL SECTION BIKE PATH
(STA. 22+57 – 25+50)

## SUMMARY OF QUANTITIES

| | CODE NUMBER | ITEM | UNIT | TOTAL QUANTITY | CONSTR. TYPE CODE SFTY-2A | CONSTR. TYPE CODE Y077 |
|---|---|---|---|---|---|---|
| | 20100500 | TREE REMOVAL, ACRES | ACRE | 2.8 | 2.8 | |
| | 20200100 | EARTH EXCAVATION | CU YD | 3,304 | 3,304 | |
| | 20400800 | FURNISHED EXCAVATION | CU YD | 5,142 | 5,142 | |
| | 20700220 | POROUS GRANULAR EMBANKMENT | CU YD | 1,300 | 1,300 | |
| | 20800150 | TRENCH BACKFILL | CU YD | 19 | 19 | |
| | 21001000 | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | SQ YD | 2,012 | 2,012 | |
| | 21101625 | TOPSOIL FURNISH AND PLACE, 6" | SQ YD | 15,036 | 15,036 | |
| * | 25000100 | SEEDING, CLASS 1 | ACRE | 2.83 | 2.83 | |
| * | 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 282 | 282 | |
| * | 25000500 | PHOSPHOROUS FERTILIZER NUTRIENT | POUND | 282 | 282 | |
| * | 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 282 | 282 | |
| | 25100630 | EROSION CONTROL BLANKET | SQ YD | 15,036 | 15,036 | |
| | 28000300 | TEMPORARY DITCH CHECKS | EACH | 4 | 4 | |
| | 28000400 | PERIMETER EROSION BARRIER | FOOT | 4,300 | 4,300 | |
| | 28000500 | INLET AND PIPE PROTECTION | EACH | 11 | 11 | |
| | 28100747 | STONE DUMPED RIPRAP, CLASS C4 | SQ YD | 11.8 | 11.8 | |
| | 35101800 | AGGREGATE BASE COURSE, TYPE B 6" | SQ YD | 2,012 | 2,012 | |
| | 35102000 | AGGREGATE BASE COURSE, TYPE B 8" | SQ YD | 1,859 | 1,859 | |
| | 40300100 | BITUMINOUS MATERIALS (PRIME COAT) | GAL | 1,805 | 1,805 | |
| | 40600100 | BITUMINOUS MATERIALS (PRIME COAT) | GAL | 186 | 186 | |
| | 40600300 | AGGREGATE (PRIME COAT) | TON | 4 | 4 | |
| | 42001300 | PROTECTIVE COAT | SQ YD | 1,440 | 1,440 | |
| | 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH | SQ FT | 250 | 250 | |
| | 44000300 | CURB REMOVAL | FOOT | 95 | 95 | |
| | 44002300 | CURB REMOVAL (PARTIAL) | FOOT | 20 | 20 | |
| | 48101498 | AGGREGATE SHOULDERS, TYPE B 4" | SQ YD | 746 | 746 | |
| | 50200100 | STRUCTURE EXCAVATION | CU YD | 992 | 992 | |
| | 50300120 | PREFORMED JOINT SEAL, 2 1/2" | FOOT | 15 | 15 | |
| | 50300150 | NEOPRENE EXPANSION JOINT, 2" | FOOT | 13 | 13 | |
| | 50300155 | NEOPRENE EXPANSION JOINT, 2-1/2" | FOOT | 39 | 39 | |
| | 50300160 | NEOPRENE EXPANSION JOINT, 4" | FOOT | 13 | 13 | |
| | 50300225 | CONCRETE STRUCTURES | CU YD | 322 | 322 | |
| | 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 259 | 259 | |
| | 50300310 | ELASTOMERIC BEARING ASSEMBLY, TYPE I | EACH | 12 | 12 | |
| | 50300320 | ELASTOMERIC BEARING ASSEMBLY, TYPE II | EACH | 4 | 4 | |
| | 50300330 | ELASTOMERIC BEARING ASSEMBLY, TYPE III | EACH | 4 | 4 | |
| | 50500405 | FURNISHING AND ERECTING STRUCTURAL STEEL | POUND | 294,100 | 294,100 | |
| | 50500505 | STUD SHEAR CONNECTORS | EACH | 3,632 | 3,632 | |
| | 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 174,080 | 174,080 | |
| | 51000105 | PIPE HANDRAIL | FOOT | 168 | 168 | |
| | 54213657 | PRECAST REINFORCED CONCRETE FLARED END SECTION 12" | EACH | 2 | 2 | |
| | 54213669 | PRECAST REINFORCED CONCRETE FLARED END SECTION 24" | EACH | 1 | 1 | |
| | 54213867 | STEEL END SECTIONS 12" | EACH | 4 | 4 | |
| | 54213870 | STEEL END SECTIONS 15" | EACH | 3 | 3 | |
| | 54213882 | STEEL END SECTIONS 27" | EACH | 4 | 4 | |
| | 54247130 | GRATING FOR CONCRETE FLARED END SECTION 24" | EACH | 1 | 1 | |
| | 54200217 | PIPE CULVERTS, CLASS D, TYPE 1 12" | FOOT | 40 | 40 | |
| | 54200220 | PIPE CULVERTS, CLASS D, TYPE 1 15" | FOOT | 85 | 85 | |
| | 54200232 | PIPE CULVERTS, CLASS D, TYPE 1 27" | FOOT | 44 | 44 | |
| | 550A0050 | STORM SEWERS, CLASS A, TYPE 1 12" | FOOT | 10 | 10 | |
| | 550A0120 | STORM SEWERS, CLASS A, TYPE 1 24" | FOOT | 24 | 24 | |

## SUMMARY OF QUANTITIES (CONT'D)

| | CODE NUMBER | ITEM | UNIT | TOTAL QUANTITY | CONSTR. TYPE CODE SFTY-2A | CONSTR. TYPE CODE Y077 |
|---|---|---|---|---|---|---|
| | 55100700 | STORM SEWER REMOVAL 15" | FOOT | 4 | 4 | |
| | 55101200 | STORM SEWER REMOVAL 24" | FOOT | 18 | 18 | |
| | 56103000 | DUCTILE IRON WATER MAIN 6" | FOOT | 9 | 9 | |
| | 56400100 | FIRE HYDRANTS TO BE MOVED | EACH | 1 | 1 | |
| | 58700200 | BRIDGE SEAT SEALER | SQ FT | 194 | 194 | |
| | 60203905 | CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME CLOSED LID | EACH | 1 | 1 | |
| | 60219000 | MANHOLES, TYPE A,4'-DIAMETER, TYPE 8 GRATE | EACH | 2 | 2 | |
| | 60265600 | VALVE BOXES TO BE ADJUSTED | EACH | 4 | 4 | |
| | 60600605 | CONCRETE CURB, TYPE B | FOOT | 95 | 95 | |
| | 66400305 | CHAIN LINK FENCE, 6' | FOOT | 5,705 | 5,705 | |
| | 66407600 | CHAIN LINK GATES, 6' X 12' DOUBLE | EACH | 2 | 2 | |
| | 66410300 | CHAIN LINK FENCE REMOVAL | FOOT | 46 | 46 | |
| | 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 6 | 6 | |
| | 67100100 | MOBILIZATION | L SUM | 1 | 1 | |
| | 72400500 | RELOCATE SIGN PANEL ASSEMBLY – TYPE A | EACH | 20 | 20 | |
| * | 80400100 | ELECTRIC SERVICE INSTALLATION | EACH | 2 | 2 | |
| * | 81000400 | CONDUIT IN TRENCH, 1 1/4" DIA., GALVANIZED STEEL | FOOT | 325 | 325 | |
| * | 81100500 | CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL | FOOT | 1,025 | 1,025 | |
| * | 81300220 | JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4" | EACH | 24 | 24 | |
| * | 81300420 | JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 10" X 8" X 4" | EACH | 6 | 6 | |
| * | 81500200 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 325 | 325 | |
| * | 81702110 | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10 | FOOT | 300 | 300 | |
| * | 81702130 | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 | FOOT | 4,500 | 4,500 | |
| * | 81702140 | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4 | FOOT | 975 | 975 | |
| | X0320139 | TEMPORARY CONSTRUCTION FENCE | FOOT | 1,331 | 1,331 | |
| | X0321072 | BRIDGE FENCE RAILING | FOOT | 1,540 | 1,540 | |
| | X0322568 | PEDESTRIAN TRUSS SUPERSTRUCTURE | SQ FT | 1,910 | 1,910 | |
| | X0322671 | STABILIZED CONSTRUCTION ENTRANCE | SQ YD | 235 | 235 | |
| | X0322870 | MAINTENANCE OF EROSION CONTROL SYSTEM | L SUM | 1 | 1 | |
| * | X0323868 | DRAINAGE RESTRICTOR | EACH | 1 | 1 | |
| | X0330200 | SANITARY MANHOLES TO BE ADJUSTED | EACH | 1 | 1 | |
| | X4066414 | BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 | TON | 434 | 434 | |
| | X4066614 | BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50 | TON | 268 | 268 | |
| * | X8250905 | CONTROLLER, STREET LIGHTING | EACH | 2 | 2 | |
| | X0000372 | TEMPORARY AGGREGATE | TON | 25 | 25 | |
| | X0003817 | GRATING FOR CONCRETE FLARED END SECTION 12" | EACH | 2 | 2 | |
| | X0004056 | MECHANICALLY STABILIZED EARTH RETAINING WALL | SQ FT | 9,900 | 9,900 | |
| | X0004927 | BITUMINOUS PATH REMOVAL | SQ FT | 8,650 | 8,650 | |
| | Z0003900 | BICYCLE RAILING | FOOT | 700 | 700 | |
| | Z0008230 | DRILLED SHAFT IN SOIL 30" | FOOT | 216 | 216 | |
| | Z0008236 | DRILLED SHAFT IN SOIL 36" | FOOT | 36 | 36 | |
| | Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1 | 1 | |
| | Z0048665 | RAILROAD PROTECTIVE LIABILITY INSURANCE | L SUM | 1 | 1 | |
| | Z0055800 | RUSTIC RAIL FENCE | FOOT | 590 | 590 | |
| * | | SUPPLY AND INSTALL COLD CATHODE LIGHTING SYSTEM | L SUM | 1 | 1 | |
| * | | SEEDING, MESIC PRAIRIE | ACRE | 0.15 | | 0.15 |
| * | | SEEDING, WET PRAIRIE | ACRE | 0.20 | | 0.20 |
| * | | PHOTO CELL | EACH | 2 | 2 | |
| * | | DRAINAGE SCUPPER | EACH | 4 | 4 | |
| | | DETECTABLE WARNINGS | SQ FT | 94 | 94 | |
| * | | DRAINAGE SYSTEM | L SUM | 1 | 1 | |

## BITUMINOUS MIXTURE REQUIREMENTS

| MIXTURE USES | BIT. CONC. BINDER SUPERPAVE | BIT. CONCRETE SURFACE CSE. SUPERPAVE |
|---|---|---|
| AC / PG: | PG 58-22 | PG 64-22 |
| RAP % MAX | 25 | 15 |
| DESIGN AIR VOIDS | 4% at 50 | 4% at 50 △1 |

① BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C N50 – 2"
② BITUMINOUS MATERIAL (PRIME COAT)
③ BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0 MM, N50 – 2 1/2"
④ BITUMINOUS MATERIAL (PRIME COAT) (MC-30)
⑤ AGGREGATE BASE COURSE, TYPE B, 8"
⑥ TOPSOIL FURNISH AND PLACE 6", SEEDING, CLASS 1
⑦ AGGREGATE SHOULDER TYPE B 4"
⑧ AGGREGATE BASE COURSE TYPE B 6"
⑨ POROUS GRANULAR EMBANKMENT, 2"
⑩ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

Y077 – WETLAND MITIGATION AND ENHANCEMENT

* DENOTES SPECIALTY ITEM

NOTE:

RAILROAD FLAGGER TO BE PAID FOR AS EXTRA WORK UNDER ARTICLE 109.04

EARTHWORK SCHEDULE

| LOCATION | EARTHWORK EXCAVATION | EXCAVATION TO BE USED IN EMBANKMENT ADJUST FOR SHRINKAGE | FURNISH & EXCAVATION | EARTHWORK BALANCE (+) OR SHRINKAGE (–) | TOPSOIL FURNISH AND PLACE |
|---|---|---|---|---|---|
| | CUBIC YARD | CUBIC YARD | CUBIC YARD | CUBIC YARD | SQUARE YARD |
| BIKE PATH | | | | | |
| STA. 2+22.06 TO STA. 9+50 | 227.6 | 193.5 | 6.0 | 187.5 | 79.8 |
| STA. 22+00 TO STA. 26+19.25 | 1171.3 | 995.6 | 4989.4 | -3993.8 | 3604.8 |
| PEDESTRIAN PATH | | | | | |
| STA. 121+45 TO STA. 129+50 | 1905.1 | 1619.4 | 146.9 | 1472.5 | 3186.1 |
| TOTAL | 3304.0 | 2808.4 | 5142.4 | -2333.8 | 6870.5 |

SHRINKAGE FACTOR: EARTH EXCAVATION:15%

DWG: PAVDETS

Copyright © 2003 Cemcon, Ltd. All rights reserved.

PREPARED FOR:
WHEATON PARK DISTRICT
666 S. MAIN STREET
WHEATON, ILLINOIS 60187

PREPARED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60504-9675
Ph: 630.862.2100 Fax: 630.862.2199
E-Mail: cadd@cemcon.com Website: www.cemcon.com

REVISIONS

| NO. | DATE | DESCRIPTION | NO. | DATE | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 07/12/05 | PEDESTRIAN PATH EXTENDED | | | |

# TYPICAL SECTIONS & SUMMARY OF QUANTITIES

## PEDESTRIAN/BICYCLE PATH BRIDGE OVER UNION PACIFIC RAILROAD

| | | | | |
|---|---|---|---|---|
| FILE NAME: DETAILS | DSGN. BY: MMH | JOB NO.: 551.007 | FLD. BK./PG.: ----- | SHEET NO. 3 of 54 |
| DISC. NUMBER: 551007 | DRN. BY: RDS | DATE: 07-12-05 | SCALE: 1" = ----- | |