

| | | | | |
|--------------------------------|---------|--------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | COOK | 11 | 1 |
| ILLINOIS PROJECT | | | | |
| VILLAGE SECTION 06-00133-00-BT | | | | |
| CONTRACT NO. 83933 | | | | |



LOCATION OF SECTION INDICATED THUS: [Symbol]

FOR INDEX OF SHEETS SEE SHEET NO. 2

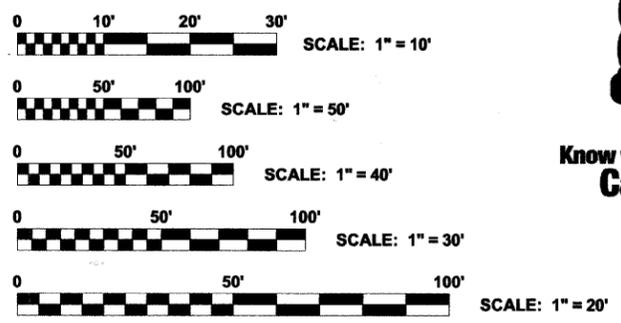
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY ILLINOIS PRAIRIE PATH IMPROVEMENTS AT IHB RAILROAD OVERPASS, SECURITY FENCING, LIGHTING, AND PAVEMENT MARKING SECTION 06-00133-00-BT PROJECT TE-00D1(756) C-91-143-07 VILLAGE OF BELLWOOD COOK COUNTY

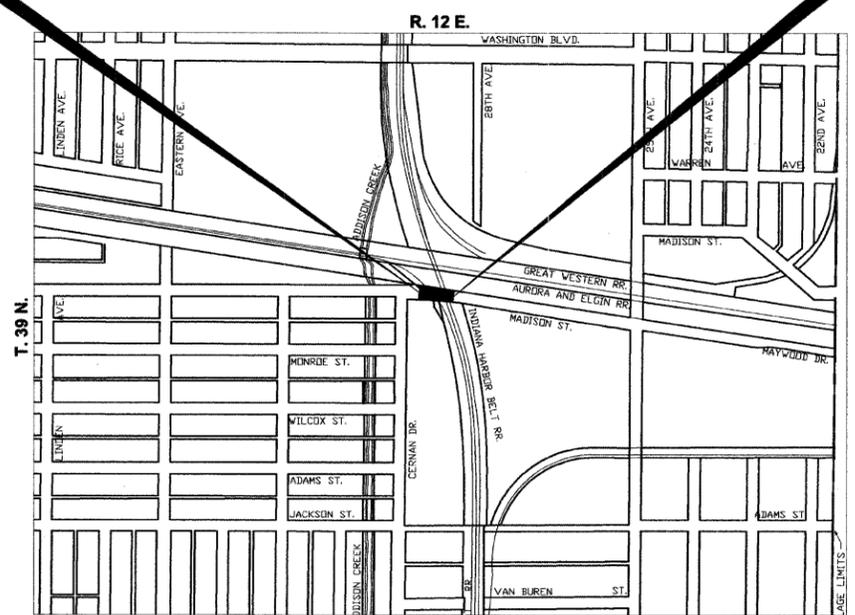
PROJECT LOCATED IN THE VILLAGE OF BELLWOOD

PROJECT BEGINS STATION 0+95

PROJECT ENDS STATION 5+17



LOCATION MAP



DATE SIGNED: *Edwin L. Stedinger 12/19/2007*
LICENSE EXPIRES: 11-30-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED: *Dec 19 2007*
Frank A. Pozorski
VILLAGE OF BELLWOOD, PRESIDENT

PASSED: *JANUARY 8 2008*
Christopher Holt
DISTRICT ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW: *Jan 8 2008*
Tom O'Connell
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

CONTRACT NO. 83933

PROVISO TOWNSHIP
NOT TO SCALE

■ - AREA OF IMPROVEMENT
GROSS LENGTH OF IMPROVEMENT = 422.0 FT. = 0.08 MI.

FEDERAL AID ENGINEER MARLIN D. SOLOMON, P.E. (847) 705-4407

HANCOCK ENGINEERING

- Civil Engineers
- Municipal Consultants
- Established 1911

9933 Roosevelt Road
Westchester, Illinois 60154-2780
Phone: 708/865-0300
Fax: 708/865-1212

(PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS)

INDEX OF SHEETS

| SHEET NO. | DESCRIPTION |
|-----------|--|
| 1 | TITLE SHEET, LOCATION MAP |
| 2 | INDEX OF SHEETS, LEGEND OF SYMBOLS, & I.D.O.T. STANDARD DRAWINGS |
| 3 | SUMMARY OF QUANTITIES |
| 4 | SITE PLAN |
| 5 | LIGHTING & P.C.C. SIDEWALK, 5" DETAILS |
| 6-8 | OVERPASS LIGHTING PLAN & LIGHTING DETAILS |
| 9-10 | CHAIN LINK FENCE DETAILS |
| 11 | PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS |

GENERAL NOTES

STANDARDS

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AS SHOWN ON THE INDEX OF SHEETS IN THE PLANS.

UNDERGROUND UTILITIES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 811 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).

THE LOCATIONS OF THE UNDERGROUND UTILITIES IF SHOWN ON THE PLANS HAVE BEEN OBTAINED BY FIELD SURVEYS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THE DATA IS ESSENTIALLY CORRECT, BUT THE VILLAGE OF BROOKFIELD, THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND/OR OTHER OFFICES AND AGENCIES ASSOCIATED WITH THE DEVELOPMENT OF THESE PLANS DO NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS OF THIS INFORMATION. THE CONTRACTOR WILL BE REQUIRED TO VERIFY THE EXACT LOCATION OF EACH FACILITY WITH THE RESPECTIVE UTILITY COMPANY, AND SHALL TAKE DUE CARE IN ALL PHASES OF THE CONSTRUCTION TO PROTECT ANY SUCH FACILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF BELLWOOD.

FIELD OFFICE

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE OR VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT OR THE VILLAGE.

BARRICADES

THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED, ONE (1) WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL

SAW CUTTING

THE CONTRACTOR SHALL SAW CUT SIDEWALK AS INDICATED ON THE PLANS TO SEPARATE THE EXISTING SIDEWALK TO BE REMOVED BY APPROVED MEANS OR AN APPROVED CONCRETE SAW TO A DEPTH AS DIRECTED BY THE ENGINEER. SUITABLE GUIDELINES OR DEVICES SHALL BE USED TO ASSURE CUTTING A NEAT, STRAIGHT LINE AS SHOWN ON THE PLANS. CARE SHALL BE TAKEN BY THE CONTRACTOR AS NOT TO DAMAGE THE REMAINING SIDEWALK DIRECTLY ADJACENT TO THE SIDEWALK TO BE REMOVED. ANY DAMAGE TO THE EXISTING SIDEWALK RESULTING FROM SIDEWALK REMOVAL OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE COST OF SAW CUTTING SHALL BE INCLUDED IN THE ITEM BEING REMOVED.

I.D.O.T. STANDARD DRAWINGS

| STANDARD NO. | TITLE OR DESCRIPTION |
|--------------|--|
| 000001-05 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 720001 | SIGN PANEL MOUNTING DETAILS |
| 720006-01 | SIGN PANEL ERECTION DETAILS |
| 814001-01 | HANDHOLES |
| 701501-04 | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED |
| 701901 | TRAFFIC CONTROL DEVICES |

LEGEND OF SYMBOLS

| EXISTING | PROPOSED | DESCRIPTION |
|----------|----------|--|
| | | COMBINATION SEWER |
| | | COMBINED RELIEF SEWER |
| | | STORM SEWER |
| | | WATER MAIN |
| | | MANHOLE, TYPE A, 4' DIAMETER |
| | | INLET, TYPE A |
| | | CATCH BASIN |
| | | FIRE HYDRANT |
| | | WATER MAIN VALVE BOX |
| | | WATER SERVICE BOX |
| | | ELECTRIC HANDHOLE |
| | | CURB & GUTTER TO BE REMOVED & REPLACED |
| | | LIGHT STANDARD |
| | | UNDERPASS BRIDGE LIMIT |
| | | FENCE POST |
| | | FENCE |
| | | CONDUIT ATTACHED TO STRUCTURE |
| | | CONDUIT IN TRENCH |
| | | UNDERPASS LUMINAIRE |
| | | JUNCTION BOX |
| | | UNIT DUCT |

Drawing file: W:\Projects\06003985 - Profile Path Impr\Notes.dwg Jan 04, 2008 11:21 am



♦ Civil Engineers
 ♦ Municipal Consultants
 ♦ Established 1911
 9933 Roosevelt Road
 Westchester, Illinois 60154-2780
 Phone: 708/865-0300
 Fax: 708/865-1212

ILLINOIS PRAIRIE PATH IMPROVEMENTS
VILLAGE OF BELLWOOD, ILLINOIS

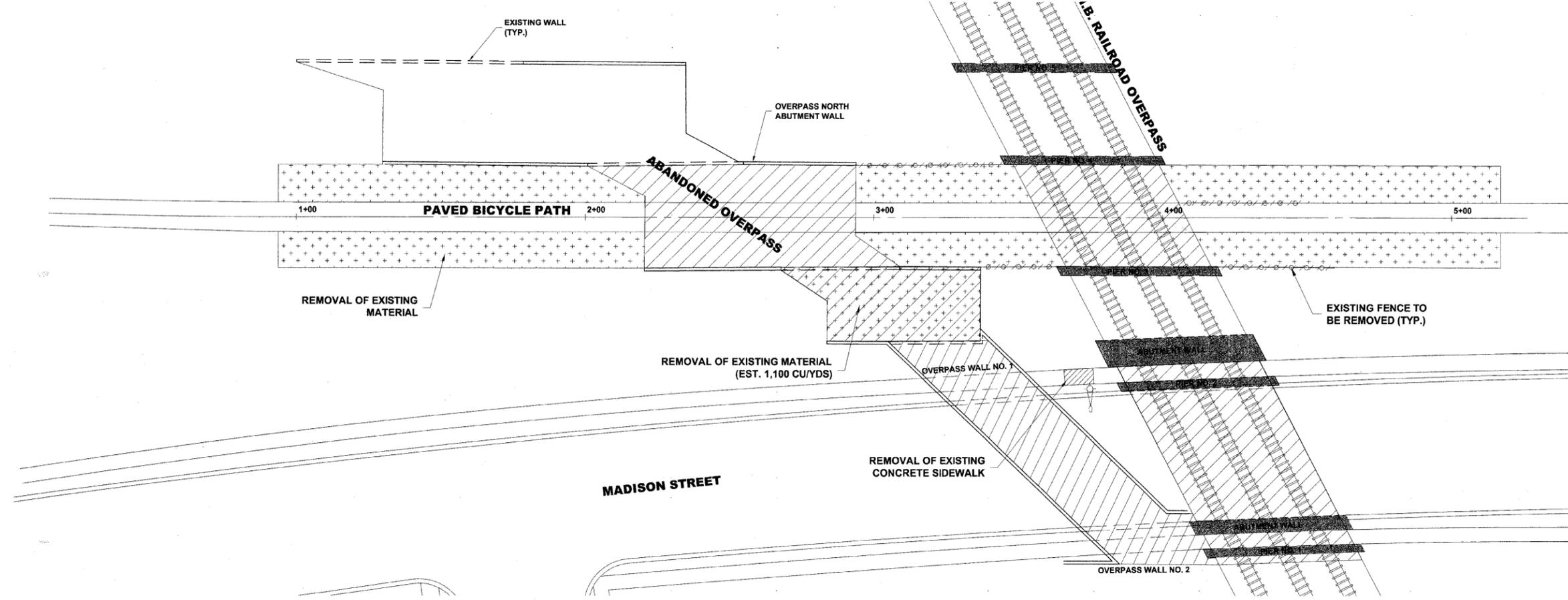
INDEX OF SHEETS, LEGEND OF
SYMBOLS, & I.D.O.T. STANDARD DRAWINGS

| | | |
|----------------------------|--------------------------|-------|
| ATB 12-19-07 | SCALE: NOT TO SCALE | SHEET |
| LEV 11-26-07 | DRAWN BY: MKLEV | 2 |
| LEV 11-14-07 | BOOK NO.: AERIAL | 11 |
| PER IDOT REVIEW MK 5-22-07 | DATE: 2-9-07 | |
| REVISION: | E.H.E. NO.: 080-03-08580 | OF |

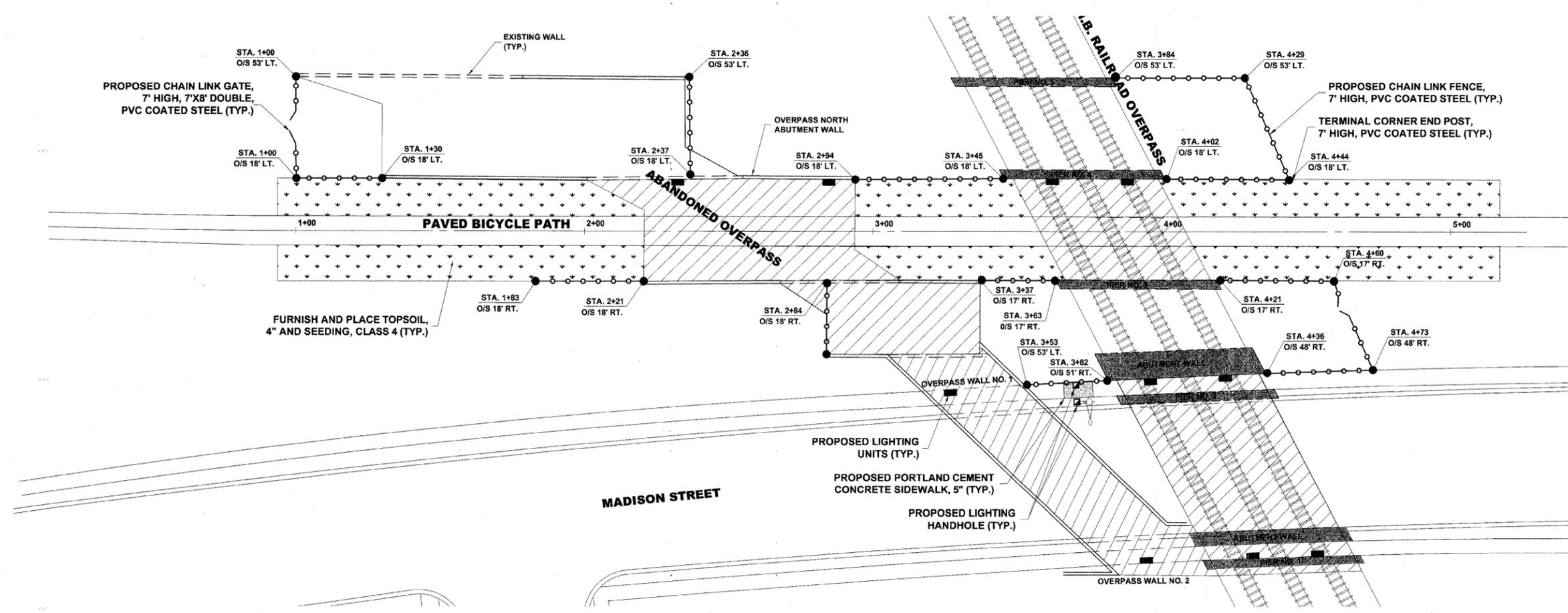
SUMMARY OF QUANTITIES

| Code No. | Item | Unit | Total Quantity | SFTY-1B | SFTY-1D | SFTY-1E |
|----------|---|--------|----------------|---------|---------|---------|
| 20200100 | EARTH EXCAVATION | Cu Yd | 100 | 100 | | |
| 21101615 | TOPSOIL, FURNISH AND PLACE, 4" | Sq Yd | 650 | 650 | | |
| 25000310 | SEEDING, CLASS 4 | Acre | 0.2 | 0.2 | | |
| 25100105 | MULCH METHOD 1 | Acre | 0.2 | 0.2 | | |
| 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK, 5" | Sq Ft | 200 | 200 | | |
| 44000600 | SIDEWALK REMOVAL | Sq Ft | 200 | 200 | | |
| 66400405 | CHAIN LINK FENCE, 7' | Lin Ft | 700 | 700 | | |
| 66408300 | CHAIN LINK GATE, 7'X8' DOUBLE | Each | 2 | 2 | | |
| 66410300 | CHAIN LINK FENCE REMOVAL | Lin Ft | 350 | 350 | | |
| 67100100 | MOBILIZATION | LSum | 1 | 1 | | |
| 70102620 | TRAFFIC CONTROL AND PROTECTION STANDARD 701501 | LSum | 1 | 1 | | |
| 72000100 | SIGN PANEL, TYPE I | Sq Ft | 18 | 18 | | |
| 78000100 | THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS | Sq Ft | 32 | | 32 | |
| 78000200 | THERMOPLASTIC PAVEMENT MARKING LINE, 4 | Lin Ft | 200 | | 200 | |
| 80400200 | ELECTRIC UTILITY SERVICE CONNECTION | LSum | 1 | | | 1 |
| 81000600 | CONDUIT IN TRENCH, 2" DIAMETER GALV STEEL | Lin Ft | 10 | | | 10 |
| 81100600 | CONDUIT ATTACHED TO STRUCTURE, 2" DIAMETER GALVANIZED STEEL | Lin Ft | 510 | | | 510 |
| 81300210 | JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6X4X4 | Each | 6 | | | 6 |
| 81400100 | HANDHOLE | Each | 2 | | | 2 |
| 81603050 | UNIT DUCT, 600V, 3 1/C No.6 & 1/C No.8 GROUND, (XLP-TYPE USE) 1" DIAMETER, POLYETHYLENE | Lin Ft | 100 | | | 100 |
| 81702415 | ELECTRICAL CABLE IN CONDUIT, 600 V, (XLP TYPE USE), 3 1/C No. 6, No. 8 Ground | Lin Ft | 500 | | | 500 |
| 81900200 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | Lin Ft | 700 | | | 700 |
| 82107505 | UNDERPASS LUMINAIRE, 250 WATT, HIGH PRESSURE SODIUM, ALUMINUM HOUSING | Each | 10 | | | 10 |
| X0350800 | BOLLARDS | Each | 4 | 4 | | |
| Z0048665 | RAILROAD PROTECTIVE LIABILITY INSURANCE | LSum | 1 | 1 | | |

Drawing file: W:\Projects\08003985 - Prairie Path Impr\index.dwg Jan 08, 2008 - 9:41am



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS

Drawing file: W:\Projects\09003085 - Profile Path\mpva\Site Plan.dwg Jan 04, 2008 - 11:23am

| | | |
|--|-------------------------|----------------------------------|
| | ◆ Civil Engineers | 9933 Roosevelt Road |
| | ◆ Municipal Consultants | Westchester, Illinois 60154-2780 |
| | ◆ Established 1911 | Phone: 708/865-0300 |
| | | Fax: 708/865-1212 |

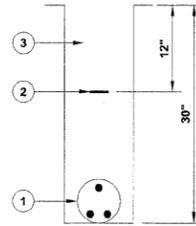
**ILLINOIS PRAIRIE PATH IMPROVEMENTS
VILLAGE OF BELLWOOD, ILLINOIS**

SITE PLAN

| | | |
|----------------------------|--------------------------|------------------------|
| ATB 12-19-07 | SCALE: 1" = 20' | SHEET 4 / 11 |
| LEV 11-26-07 | DRAWN BY: MK/LEV | |
| LEV 11-14-07 | BOOK NO.: AERIAL | |
| PER IDOT REVIEW MK 5-22-07 | DATE: 2-9-07 | |
| REVISION: | E.H.E. NO.: 090-03-08580 | OF |

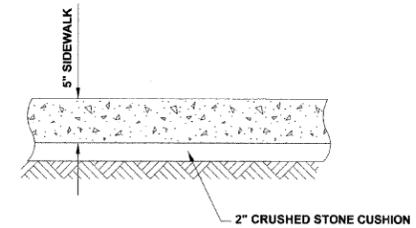
ILLUMINATION GENERAL NOTES

1. THE LATEST EDITIONS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE SUPPLEMENTAL "SPECIAL PROVISIONS" SHALL GOVERN ALL WORK ASSOCIATED WITH THIS PROJECT.
2. THE LOCATIONS OF THE UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY EACH RESPECTIVE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE PUBLIC UTILITY COMPANIES (GAS, ELECTRIC, TELEPHONE, ETC.) PRIOR TO THE COMMENCEMENT OF CONSTRUCTION FOR EXACT FIELD LOCATION OF ALL UTILITIES.
3. SERVICE POLE LOCATIONS AND CONTROL CENTER LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
4. ALL ITEMS INCLUDED IN THE PLANS OR SPECIAL PROVISIONS NOT APPEARING IN THE SUMMARY OF QUANTITIES SHALL BE CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTION.
5. GALVANIZED STEEL CONDUIT SHALL BE PLACED UNDER ALL PAVEMENT CROSSINGS OF THE SIZE AND LOCATION INDICATED ON THE PLANS. PAYMENT SHALL BE LIMITED TO THE ACTUAL WIDTH OF PAVEMENT TO BE PUSHED PLUS TWO FEET (2') ON EACH SIDE OF PAVEMENT.
6. ALL CABLE OR CONDUIT SHALL BE AS SHOWN ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER AND SHALL BE AT A BURIAL DEPTH OF THIRTY INCHES (30") BELOW EXISTING GRADES.
7. ANY PERMANENT TYPE PAVEMENT, DRIVEWAY, OR SIDEWALK WHICH MUST BE REMOVED SHALL BE SAW CUT PRIOR TO REPLACEMENT.
8. ALL TRENCHES SHALL BE THOROUGHLY COMPACTED.
9. THE CONTRACTOR SHALL BE REQUIRED TO DISPOSE OF, OFF-SITE, ALL EXCAVATED OR EXCESS MATERIALS DUE TO CONSTRUCTION OPERATIONS, AT HIS EXPENSE. NO PAYMENT SHALL BE MADE FOR THE CONTRACTOR'S EXPENSE TO HAUL OR TRUCK THE MATERIAL TO DISTANT DUMPING SITES.



- 1 UNIT DUCT AS PER SPECIFICATIONS
- 2 WARNING TAPE INSTALLED ONLY WHEN UNIT DUCT IS INSTALLED BY TRENCHING
- 3 COMPACTED GRANULAR BACKFILL (CA-6) IN AREAS UNDER PAVEMENT. COMPACTED SELECTED BACKFILL IN TURF AREAS.

TYPICAL TRENCH DETAIL



P.C.C. SIDEWALK, 5"

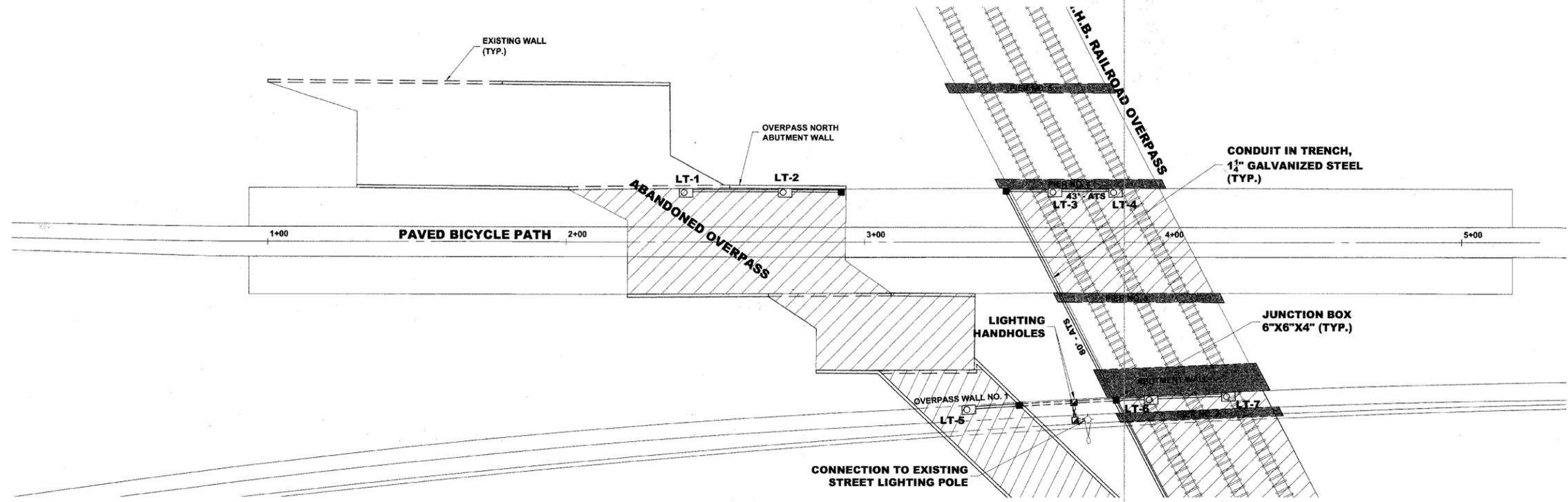
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| | | |
|--|-------------------------|----------------------------------|
| | ◆ Civil Engineers | 9933 Roosevelt Road |
| | ◆ Municipal Consultants | Westchester, Illinois 60154-2780 |
| | ◆ Established 1911 | Phone: 708/865-0300 |
| | | Fax: 708/865-1212 |

ILLINOIS PRAIRIE PATH IMPROVEMENTS
VILLAGE OF BELLWOOD, ILLINOIS

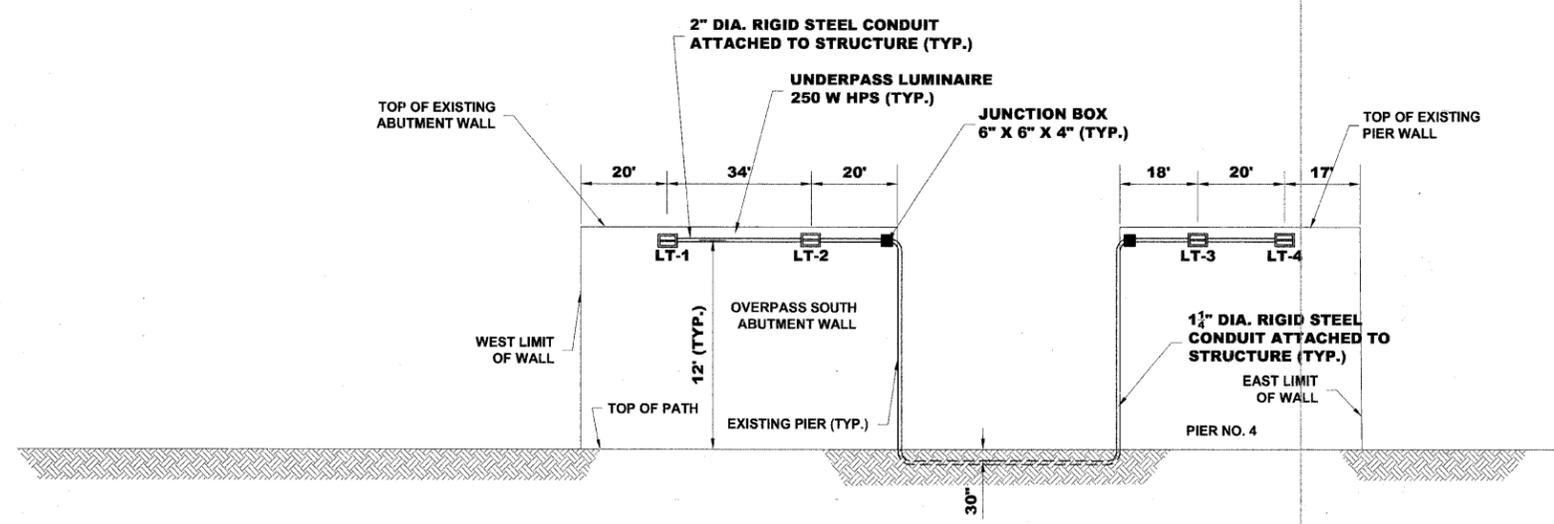
LIGHTING & PCC SIDEWALK, 5" DETAILS

| | | |
|----------------------------|--------------------------|--------------------------------------|
| ATB 12-19-07 | SCALE: NOT TO SCALE | SHEET 5 OF 11 |
| LEV 11-26-07 | DRAWN BY: MK/LEV | |
| LEV 11-14-07 | BOOK NO.: AERIAL | |
| PER IDOT REVIEW MK 5-22-07 | DATE: 2-9-07 | |
| REVISION: | E.H.E. NO.: 080-03-08580 | |



PLAN

AT OVERPASS NORTH ABUTMENT WALL AND NORTH SIDE OF PIER NO. 4



UNDERPASS LIGHTING DETAILS

AT OVERPASS SOUTH ABUTMENT WALL AND NORTH SIDE OF PIER NO. 4

Drawing file: W:\Projects\06033065 - Prairie Path Imp\Site Plan.dwg Jun 04, 2008 - 11:23am

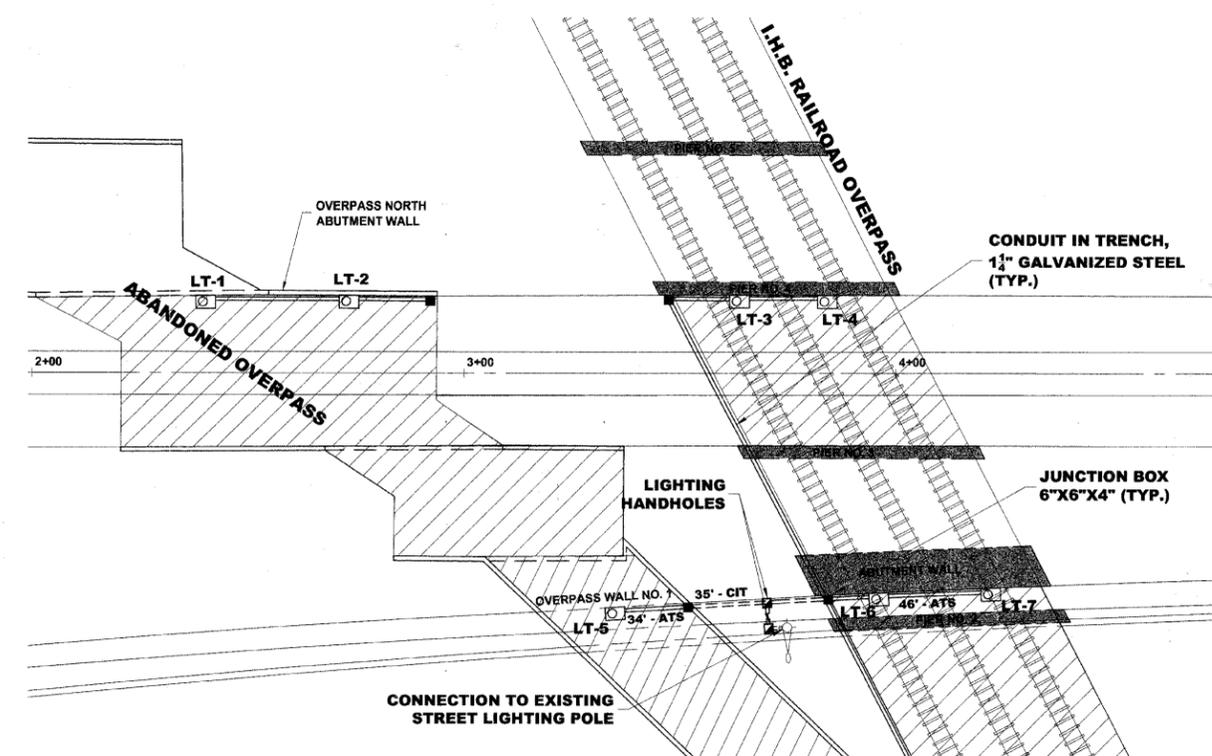


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 ♦ Established 1911
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 Westchester, Illinois 60154-2780
 Phone: 708/865-0300
 Fax: 708/865-1212

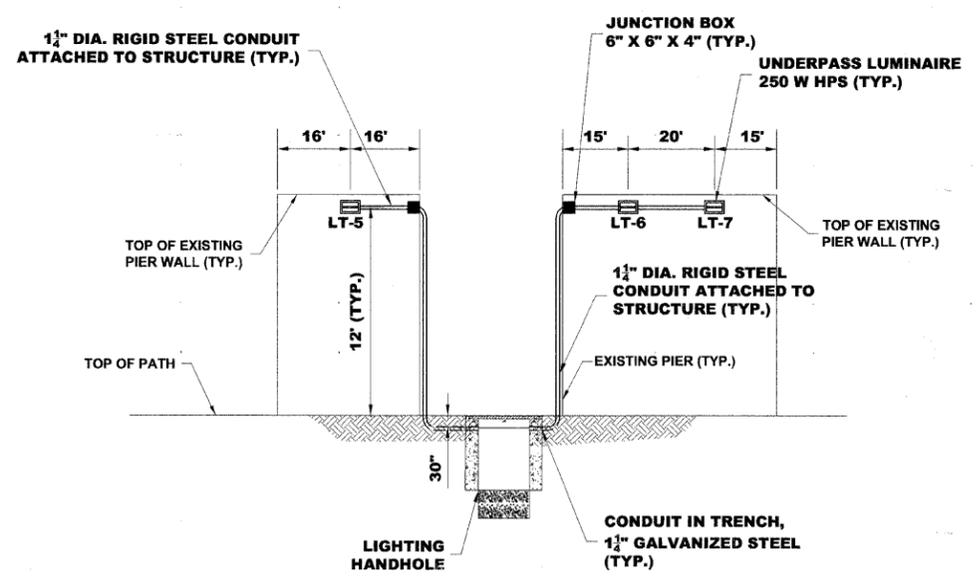
**ILLINOIS PRAIRIE PATH IMPROVEMENTS
VILLAGE OF BELLWOOD, ILLINOIS**

**OVERPASS LIGHTING PLAN
& LIGHTING DETAILS**

| | | |
|----------------------------|--------------------------|--------------------------------------|
| ATB 12-19-07 | SCALE: 1" = 20' | SHEET 6 OF 11 |
| LEV 11-26-07 | DRAWN BY: MK/LEV | |
| LEV 11-14-07 | BOOK NO.: AERIAL | |
| PER IDOT REVIEW MK 5-22-07 | DATE: 2-9-07 | |
| REVISION: | E.H.E. NO.: 080-03-08580 | |



PLAN
AT SOUTH SIDE OF OVERPASS WALL NO. 1 AND SOUTH SIDE OF SOUTH ABUTMENT WALL



UNDERPASS LIGHTING DETAILS
AT SOUTH SIDE OF OVERPASS WALL NO. 1 AND SOUTH SIDE OF SOUTH ABUTMENT WALL

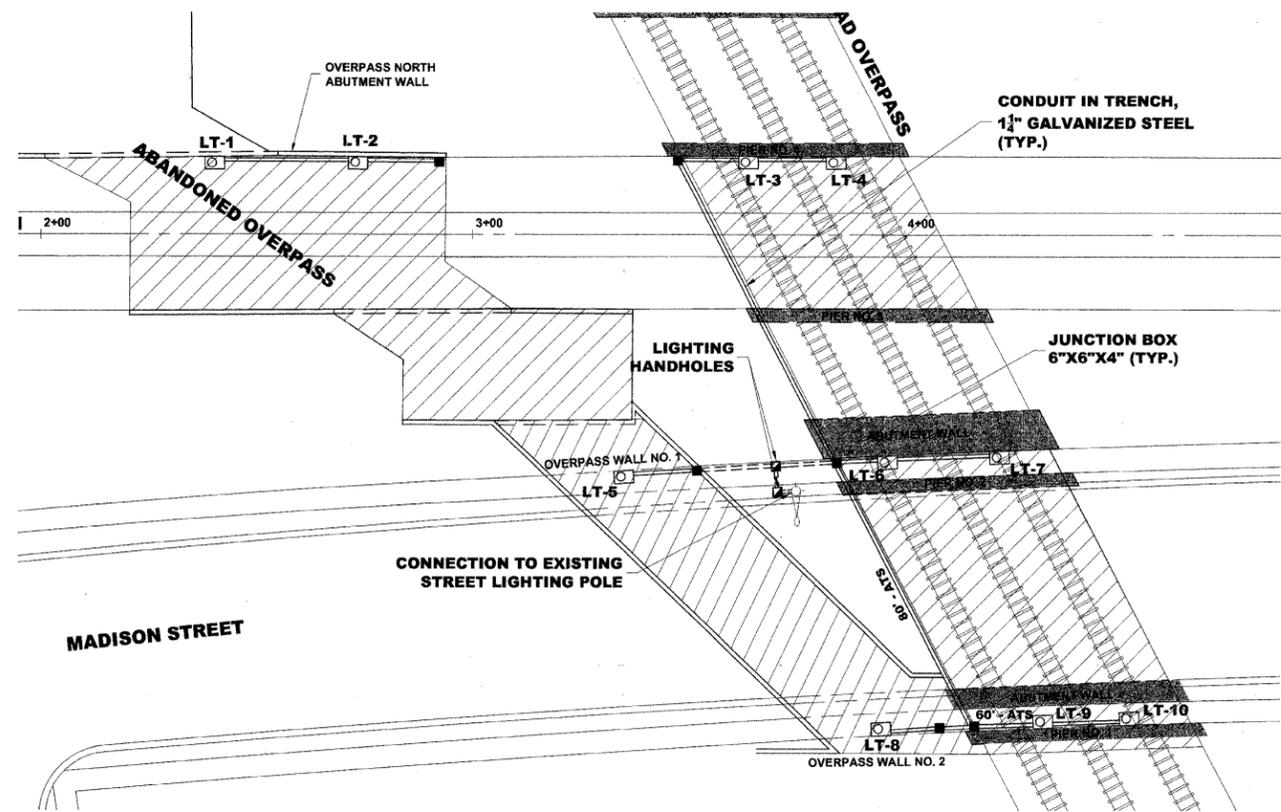
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| | | |
|--|-------------------------|----------------------------------|
| | ◆ Civil Engineers | 9933 Roosevelt Road |
| | ◆ Municipal Consultants | Westchester, Illinois 60154-2780 |
| | ◆ Established 1911 | Phone: 708/865-0300 |
| | | Fax: 708/865-1212 |

**ILLINOIS PRAIRIE PATH IMPROVEMENTS
VILLAGE OF BELLWOOD, ILLINOIS**

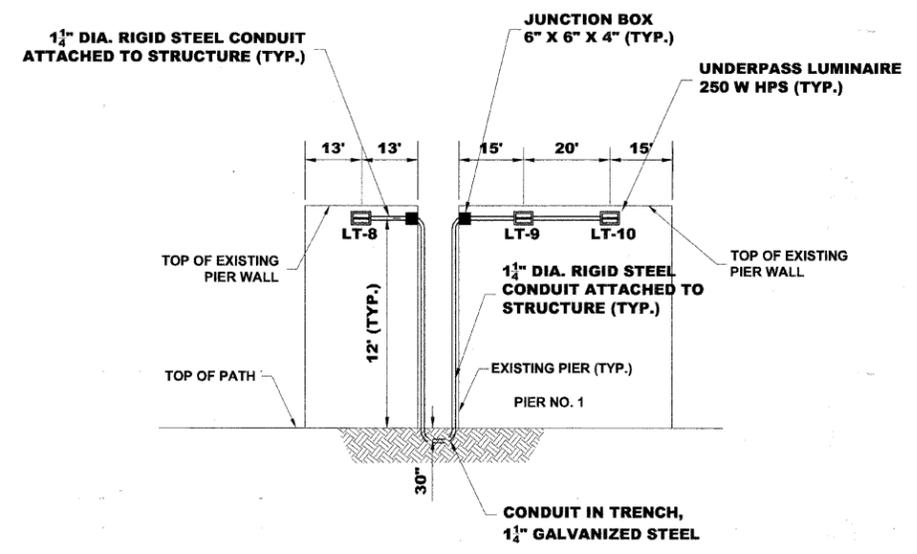
**OVERPASS LIGHTING PLAN
& LIGHTING DETAILS**

| | | |
|----------------------------|--------------------------|------------------------------|
| ATB 12-19-07 | SCALE: 1" = 20' | SHEET 7 / 11 OF |
| LEV 11-26-07 | DRAWN BY: MK/LEV | |
| LEV 11-14-07 | BOOK NO.: AERIAL | |
| PER IDOT REVIEW MK 5-22-07 | DATE: 2-9-07 | |
| REVISION: | E.H.E. NO.: 080-03-08580 | |



PLAN

AT NORTH SIDE OF OVERPASS WALL NO. 2 AND NORTH SIDE OF PIER NO. 1



UNDERPASS LIGHTING DETAILS

AT NORTH SIDE OF OVERPASS WALL NO. 2 AND NORTH SIDE OF PIER NO. 1

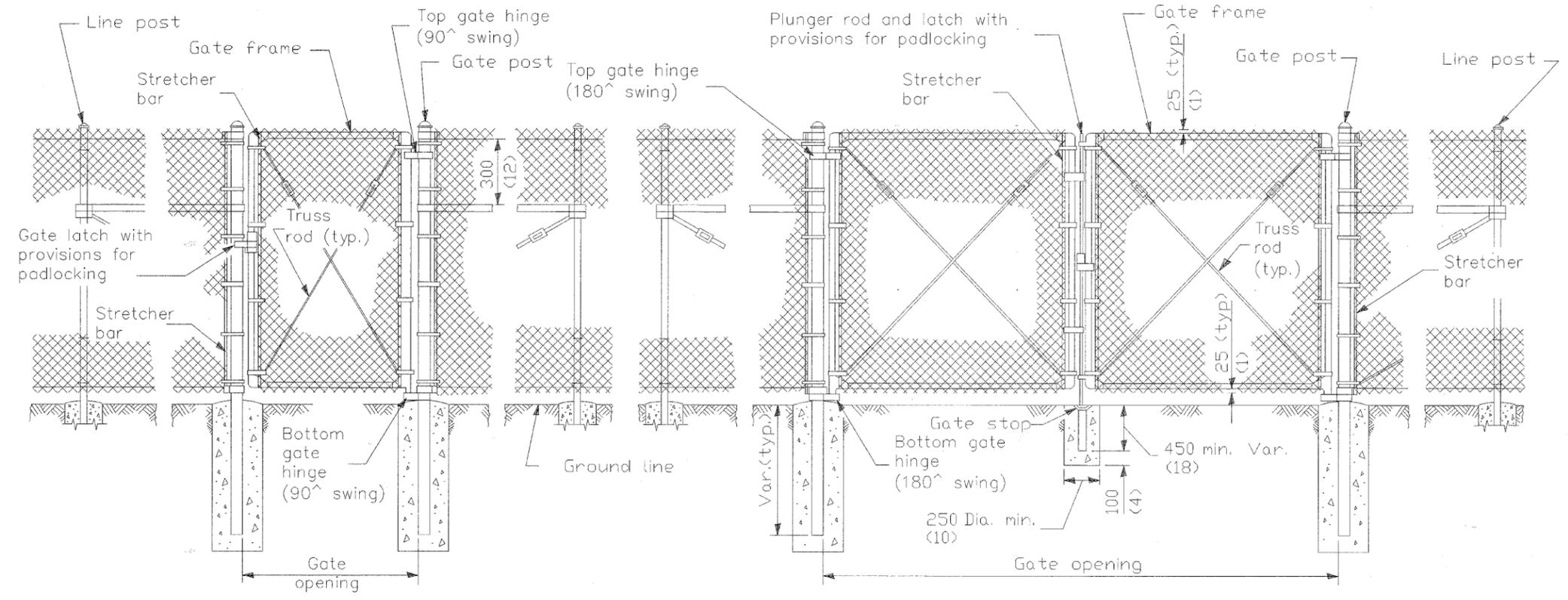
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| | | |
|--|-------------------------|--|
| | ◆ Civil Engineers | SCALE: 1"=50' |
| | ◆ Municipal Consultants | 9933 Roosevelt Road |
| | ◆ Established 1911 | Westchester, Illinois 60154-2780 |
| | | Phone: 708/865-0300 Fax: 708/865-1212 |

ILLINOIS PRAIRIE PATH IMPROVEMENTS
VILLAGE OF BELLWOOD, ILLINOIS

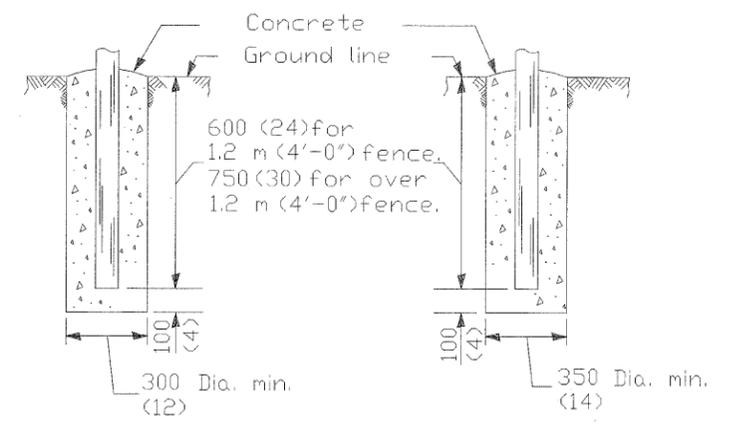
OVERPASS LIGHTING PLAN & LIGHTING DETAILS

| | | |
|----------------------------|--------------------------|------------------|
| ATB 12-19-07 | SCALE: 1" = 20' | 8 / 11 |
| LEV 11-26-07 | DRAWN BY: MK/LEV | |
| LEV 11-14-07 | BOOK NO.: AERIAL | |
| PER IDOT REVIEW MK 5-22-07 | DATE: 2-9-07 | |
| REVISION: | E.H.E. NO.: 090-03-08580 | OF |



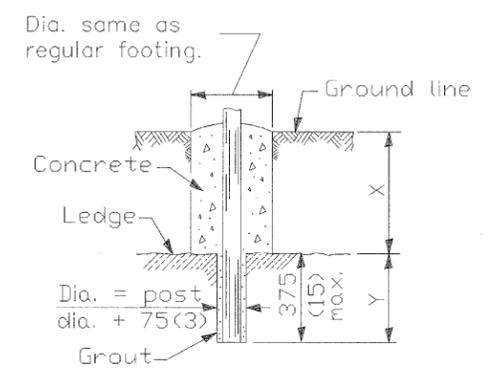
PEDESTRIAN GATE ARRANGEMENT

VEHICLE GATE ARRANGEMENT



FOOTING FOR LINE POST

FOOTING FOR GATE & TERMINAL POST

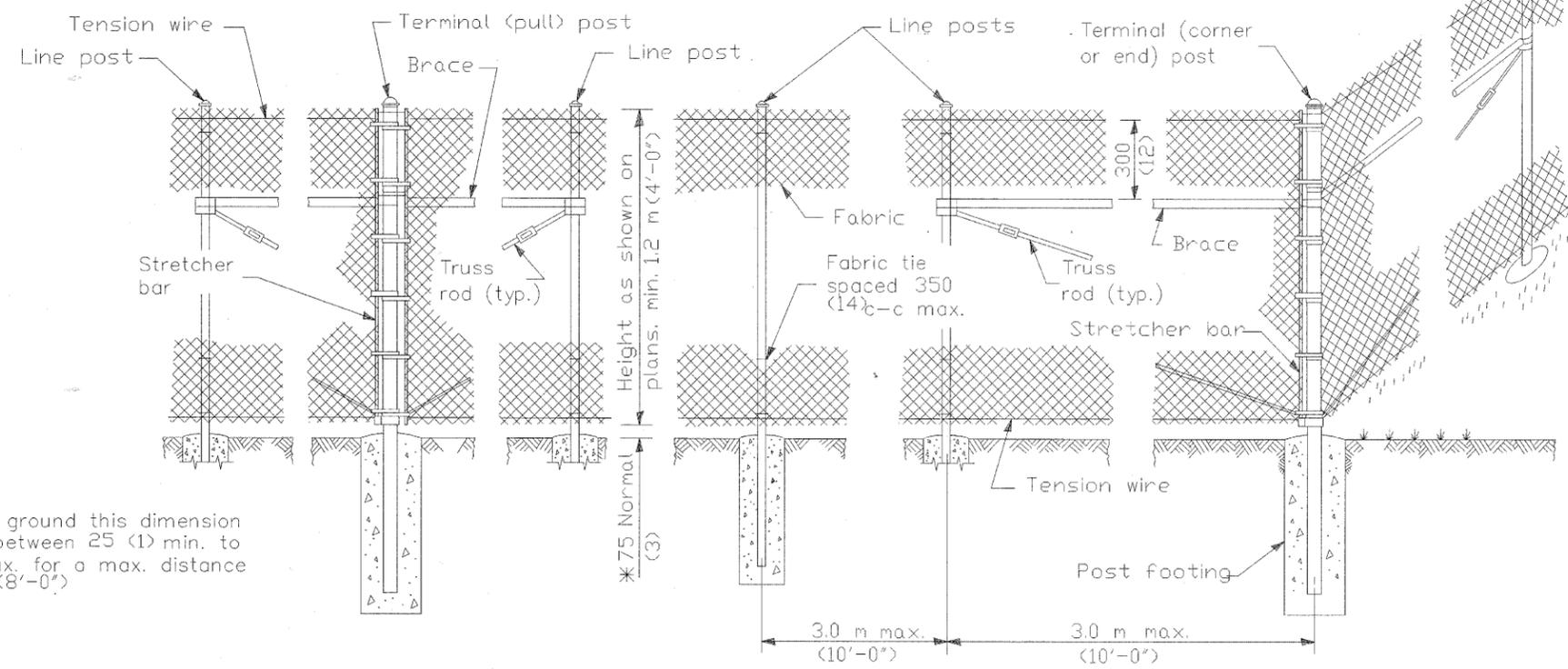


FOOTING FOR POST IN ROCK LEDGE

GENERAL NOTES

Pull posts shall be placed at locations determined by the Engineer. They shall be placed at 200 m (660') intervals between posts to which the ends of the fabric are clamped or midway between such posts when the distance is less than 400 m (1320') and greater than 200 m (660').

X + Y shall not exceed 600 mm (24"), 750 mm (30") or 900 mm (36"), as applicable. When X is 0 (0) to 225 mm (9"), 380 mm (15"), or 525 mm (21"), Y = 375 mm (15"), and the post shall be shortened as required. When X exceeds 225 mm (9"), 380 mm (15"), or 525 mm (21"), Y shall be decreased correspondingly.



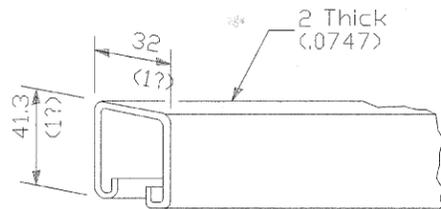
PULL POST ARRANGEMENT

LINE POST ARRANGEMENT

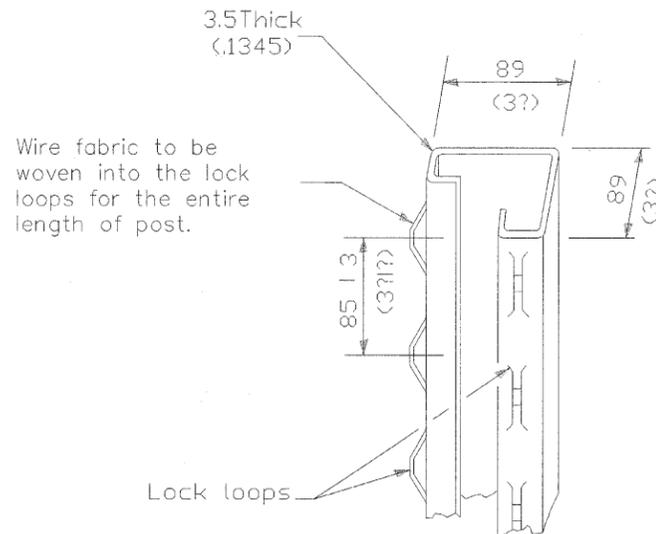
CORNER OR END POST ARRANGEMENT

* On uneven ground this dimension may vary between 25 (1) min. to 125 (5) max. for a max. distance of 2.4 m (8'-0").

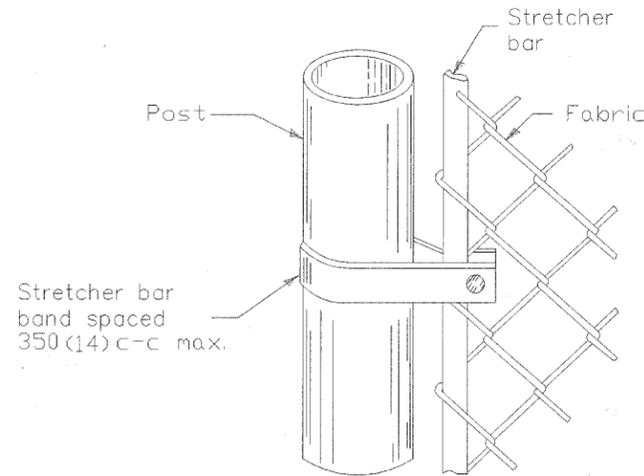
| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION | |
|-------------|----------|---------------------------------------|----------------|
| NAME | DATE | CHAIN LINK FENCE | |
| M. DE YOUNG | 06/13/90 | SCALE: NONE | DRAWN BY: CADD |
| M. DE YOUNG | 07/03/90 | DATE: 03/25/02 | CHECKED BY: |
| M. DE YOUNG | 3/27/92 | | |
| R. SHAH | 09/09/94 | | |
| R. SHAH | 10/25/94 | | |
| A. ABBAS | 03/21/97 | | |
| M. GOMEZ | 04/06/01 | | |



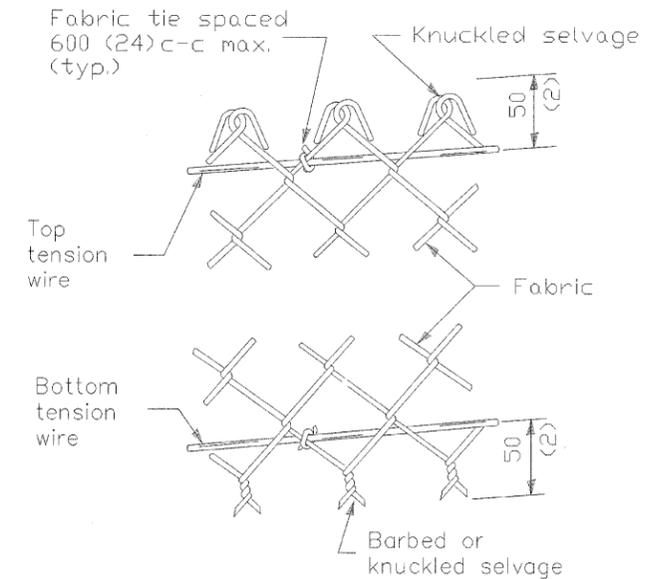
ROLL FORMED SECTION OF BRACE



ROLL FORMED SECTION OF TERMINAL & GATE POST



METHOD OF FASTENING STRETCHER BAR TO POST



METHOD OF TYING FABRIC TO TENSION WIRES

| LINE POST | | |
|-------------|---------------------------|-----------------|
| Section | | kg/m (lbs./ft.) |
| Pipe Type A | 48.3 \square .D. (1.90) | 4.05 (2.72) |
| Pipe Type B | 48.3 \square .D. (1.90) | 3.39 (2.28) |
| Pipe Type C | 48.3 \square .D. (1.90) | 3.36 (2.26) |
| H | 47.6x41.3 (1.875x1.625) | 4.05 (2.72) |
| \square | | 2.38 (1.60) |
| I | | 3.42 (2.30) |

| TERMINAL POST | | |
|---------------|----------------------------|-----------------|
| Section | | kg/m (lbs./ft.) |
| Pipe Type A | 60.3 \square .D. (2.375) | 5.43 (3.65) |
| Pipe Type B | 60.3 \square .D. (2.375) | 4.63 (3.11) |
| Pipe Type C | 60.3 \square .D. (2.375) | 4.60 (3.09) |
| Roll Formed | 89.0x89.0 (3?x3?) | See detail |
| Sq. Tubing | 63.5x63.5 (2?x2?) | 6.43 (4.32) |

| HORIZONTAL BRACES | | |
|-------------------|---------------------------|-----------------|
| Section | | kg/m (lbs./ft.) |
| Pipe Type A | 42.2 \square .D. (1.66) | 3.38 (2.27) |
| Pipe Type B | 42.2 \square .D. (1.66) | 2.72 (1.83) |
| Pipe Type C | 42.2 \square .D. (1.66) | 2.71 (1.82) |
| H | 33.3x38.1 (1.31x1.5) | 3.35 (2.25) |
| Roll Formed | 41.3x31.8 (1?x1?) | See detail |

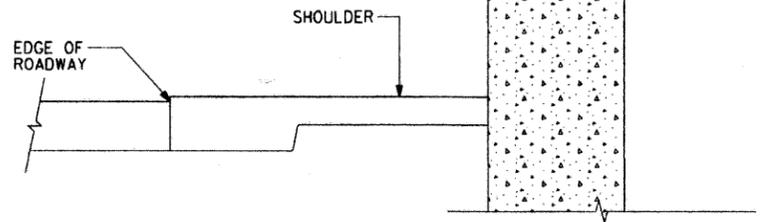
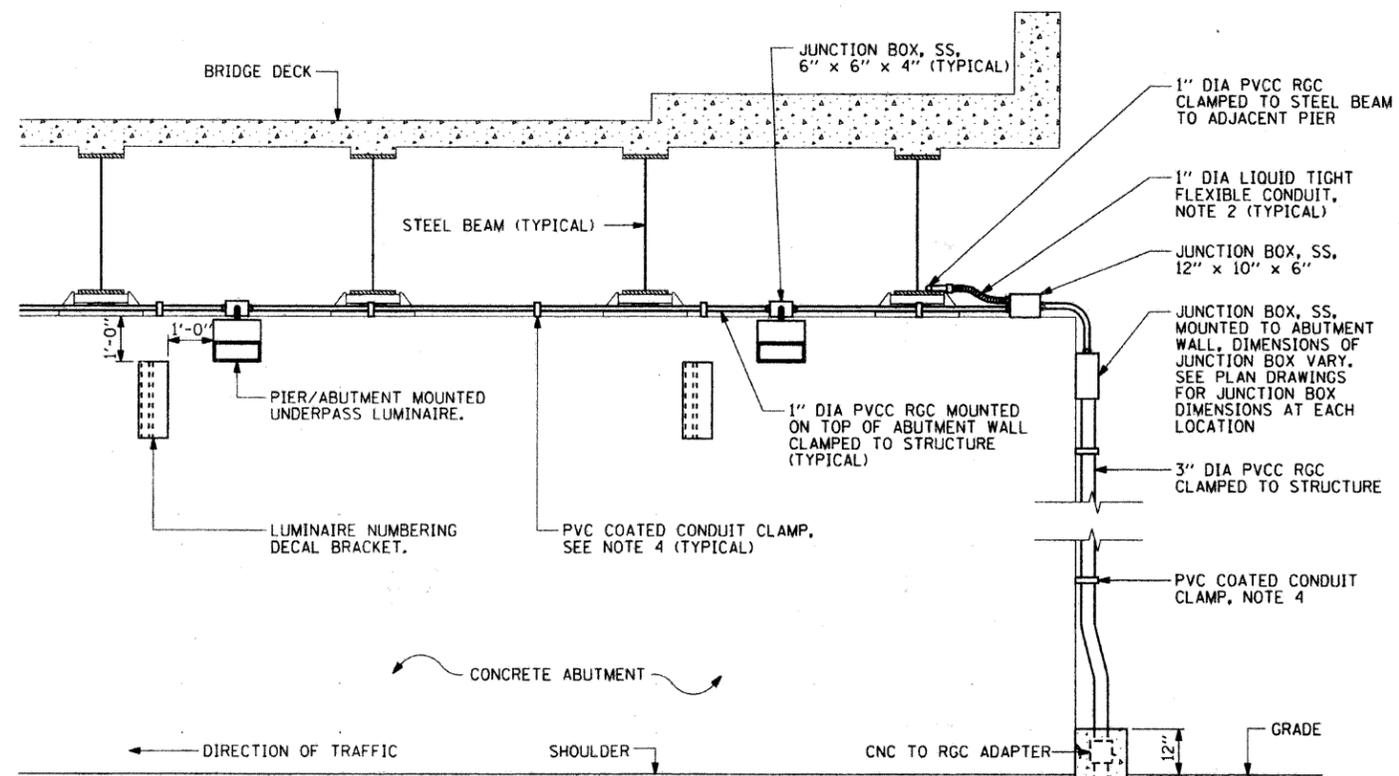
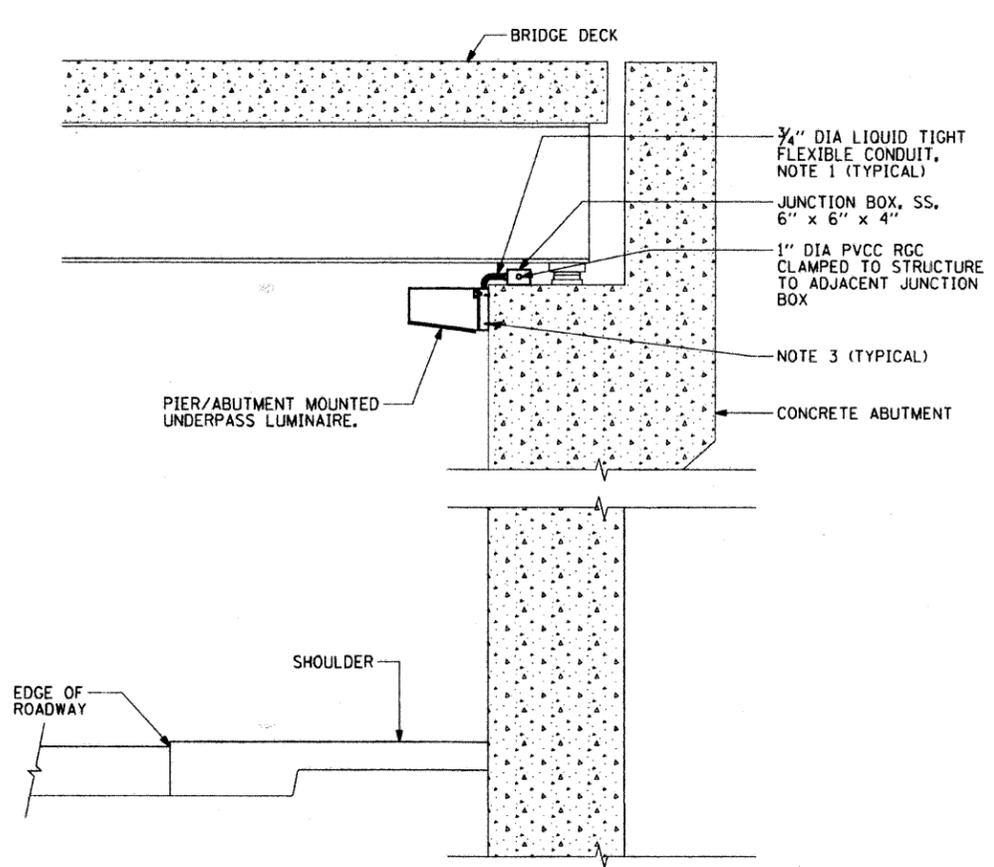
| GATE FRAMES | | |
|-------------|---------------------------|-----------------|
| Section | | kg/m (lbs./ft.) |
| Pipe Type A | 42.2 \square .D. (1.66) | 3.38 (2.27) |
| Pipe Type B | 42.2 \square .D. (1.66) | 2.72 (1.83) |
| Pipe Type C | 42.2 \square .D. (1.66) | 2.71 (1.82) |

| GATE POSTS * | | | | | | | |
|---------------------------|---------------------------|-----------------------|-----------------|------------|-----------------|-----------------------|-----------------|
| Gate Opening * m (ft.) | | Pipe Type A | | Sq. Tubing | | Pipe Type B | |
| Single | Double | Size (\square .D.) | kg/m (lbs./ft.) | Size | kg/m (lbs./ft.) | Size (\square .D.) | kg/m (lbs./ft.) |
| Up to 1.2 (4) | Up to 2.5 (8) | 60.3 (2.375) | 5.43 (3.65) | 63.5 (2) | 6.43 (4.32) | 60.3 (2.375) | 4.63 (3.11) |
| Over 1.2 to 2.5 (4) (8) | Over 2.5 to 5.0 (8) (16) | 73.0 (2.875) | 8.62 (5.79) | 76.2 (3) | 8.60 (5.78) | 73.0 (2.875) | 6.91 (4.64) |
| Over 2.5 to 3.6 (8) (12) | Over 5.0 to 7.4 (16) (24) | 89.0 (3.5) | 11.28 (7.58) | 76.2 (3) | 13.10 (8.80) | 89.0 (3.5) | 8.49 (5.707) |

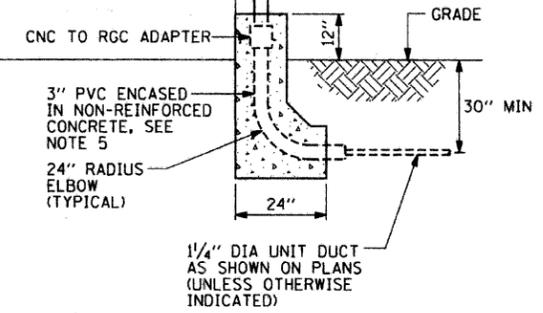
* The 89.0 x 89.0 (3? x 3?) roll formed section as detailed may be used as gate posts for single gate up to 1.8 m (6') and double gate up to 3.6 m (12').

| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION | |
|-------------|----------|---------------------------------------|----------------|
| NAME | DATE | CHAIN LINK FENCE | |
| M. DE YOUNG | 06/13/90 | SCALE: NONE | DRAWN BY: CADD |
| M. DE YOUNG | 07/03/90 | DATE: 03/25/02 | CHECKED BY: |
| M. DE YOUNG | 3/27/92 | | |
| R. SHAH | 09/09/94 | | |
| R. SHAH | 10/25/94 | | |
| A. ABBAS | 03/21/97 | | |
| M. GOMEZ | 04/06/01 | | |

Drawing file: W:\Projects\08003085 - Prairie Path Imp\VD01 STANDA02.dwg Jan 03, 2008 - 3:29pm

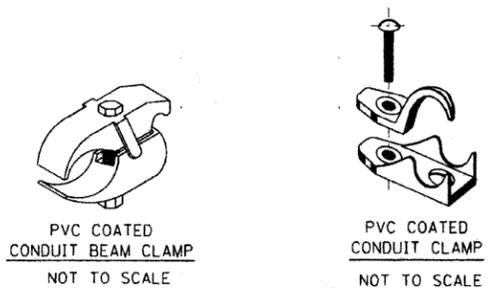
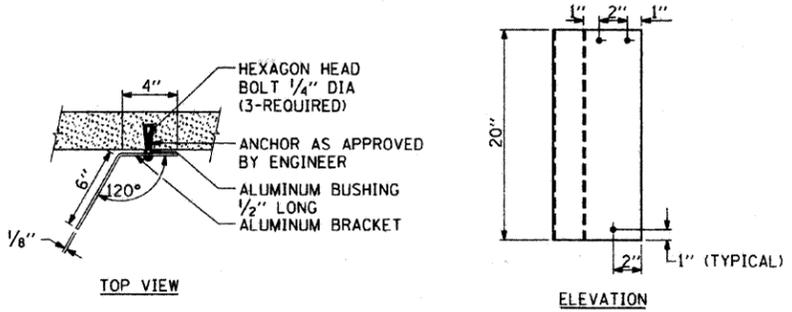


TYPICAL PIER / ABUTMENT MOUNTED UNDERPASS LIGHTING INSTALLATION DETAILS



NOTES:

- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT THE COST OF THE 3/4" DIA. RIGID STEEL CONDUIT AND 3/4" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE LUMINAIRE INSTALLATION.
- UNDERPASS LUMINAIRE MOUNTED TO FACE OF PIER OR ABUTMENT WALL. MOUNTING HEIGHT OF 1" BELOW THE TOP OF PIER OR ABUTMENT WALL TYPICAL FOR ALL PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRES UNLESS OTHERWISE NOTED.
- EXPANSION ANCHOR, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
- ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



LUMINAIRE NUMBERING DECAL BRACKET NOT TO SCALE

PVC COATED CONDUIT BEAM CLAMP NOT TO SCALE

PVC COATED CONDUIT CLAMP NOT TO SCALE

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
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| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS

| | |
|-----------------|----------------|
| SCALE: NONE | DRAWN BY: CADD |
| DATE: 2/27/2007 | CHECKED BY: |

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