

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

VILLAGE - WIDE  
VARIOUS LOCAL STREETS  
BEACON STREET LIGHTING  
PROJECT NO.: HD-8003(535)

JOB NO.: C-91-043-06  
M.F.T. SECTION NO.: 05-00021-00-LT  
VILLAGE of LYNWOOD  
COOK COUNTY

F. A. I. D. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00021-00-LT	COOK	13	01
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT HD-8003(535)		

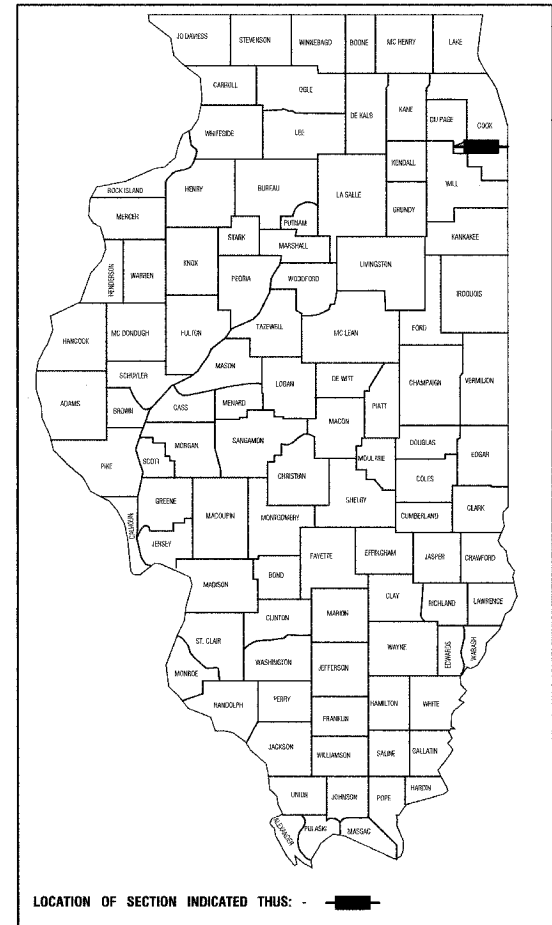
CONTRACT NO. 83946

**INDEX OF SHEETS**

1. COVER SHEET
2. SUMMARY OF QUANTITIES
3. LOCATION MAP
- 4.-12. PLAN SHEETS
13. DETAIL SHEET

**STATE STANDARDS**

701501-03 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED  
702001-06 TRAFFIC CONTROL DEVICES  
424001-04 CURB RAMPS FOR SIDEWALKS



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED: 05.04.2007  
*Eugene Williams*  
EUGENE WILLIAMS MAYOR, VILLAGE OF LYNWOOD

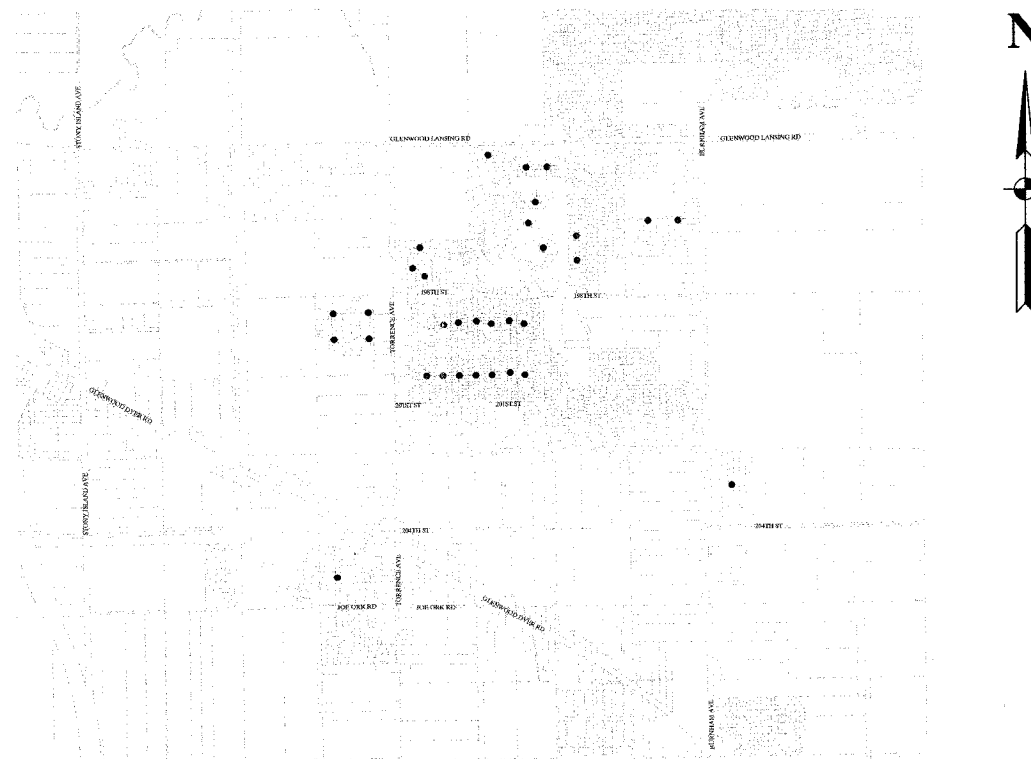
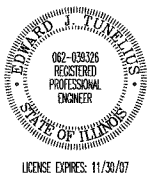
PASSED: 09.09.2007  
*Charles Holt*  
REGION ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW: May 8 2007  
*Brian O'Keefe*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

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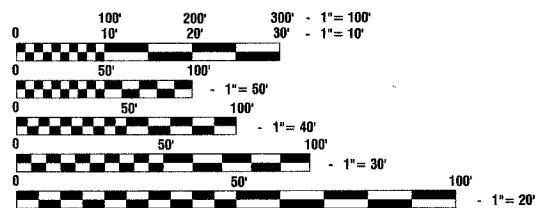
*Edward J. Tundelin*  
5.02.2007



**LOCATION MAP**

GROSS LENGTH=6650.00 FEET=1.259 MILES  
NET LENGTH=6650.00 FEET=1.259 MILES

SCALES  
PLAN - 1"=50'  
PROFILE HORIZ. - 1"=50'  
PROFILE VERT. - 1"=5'  
CROSS SECTIONS - 1"=10'



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

**CONTRACT NO. 83946**

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00021-00-LT	COOK	13	02
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	HD-8003(535)	

CONTRACT NO. 83946

CONSTRUCTION TYPE CODE: Y030-1E				
SUMMARY OF QUANTITIES				
S.I.	CODE NO.	PAY ITEM	UNIT	QUAN
	21101615	FURNISHING AND PLACING TOPSOIL, 4"	SQ YD	128
	25200110	SODDING, SALT TOLERANT	SQ YD	128
	44004610	SIDEWALK REMOVAL AND REPLACEMENT (SPECIAL)	SQ FT	50
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
	80400100	ELECTRIC SERVICE INSTALLATION	EACH	32
	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
	xx006937	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	32
	81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	120
	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	384
	81603040	UNIT DUCT, WITH 2-1/C NO. 6 AND 1/C NO. 8 GROUND, 600V (XLP-TYPE USE), 1" DIAMETER POLYETHYLENE	FOOT	5435
	82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	32
	83006300	LIGHT POLE, ALUMINUM, 30 FT. M.H., 8 FT. MAST ARM	EACH	32
	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	192
	67100100	MOBILIZATION	L SUM	1
	XX001399	UNIT DUCT, BORED AND PULLED	FOOT	5245

\* - INDICATES SPECIALTY ITEMS

**NOTES :**

1. ALL WORK TO CONFORM TO THE NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL CODES.
2. CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE TRENCHING OR AUGERING.
3. BEFORE INSTALLING STANDARDS NEAR OVERHEAD FACILITIES CALL C.E. Co. FOR APPROVAL OF LOCATION.
4. FOR LOCATION OF EXISTING UNDERGROUND ELECTRICAL CABLE CALL C.E. Co.

<b>ROBINSON ENGINEERING, LTD.</b> CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 331-8700 FAX (708) 331-3826		<b>REVISIONS</b> No. Date Remarks	
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BEACON STREET LIGHTING MFT SECTION NO. 05-00021-00-LT BID ITEMS			
<b>LYNWOOD, ILLINOIS</b>			
Drawn by: RG	Date: 03/27/07		
Checked by: EJT	Scale: NONE		
Sheet 02 of 13	Project No. 05-488		

F. A. U. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00021-00-LT	COOK	13	03
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT HD-8003(535)		

CONTRACT NO. 83946

N



SCALE: 1"=400'



**LEGEND**

- #●● PROPOSED LIGHT LOCATION
- PROPOSED UNDERGROUND CABLE
- EXISTING COMED PEDESTAL
- EXISTING COMED TRANSFORMER
- ◻ EXISTING COMED POWER POLE
- EXISTING UTILITY EASEMENT

Source: Cook County, Illinois 1:1200 - Scale  
 2002 Parcels, Version 1.0, June 2002  
 2003 Black & White Digital Orthomage, 2003

<p><b>ROBINSON ENGINEERING, LTD.</b>          CONSULTING REGISTERED PROFESSIONAL ENGINEERS          AND PROFESSIONAL LAND SURVEYORS          17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473          (708) 331-6700 FAX (708) 331-3858</p> <p>© COPYRIGHT 2007          ILLINOIS DESIGN FIRM REGISTRATION NO. 184021128</p>																																			
<p><b>BEACON STREET LIGHTING</b>  <b>MFT SECTION NO. 05-00021-00-LT</b>  <b>LOCATION MAP</b></p>																																			
<p><b>LYNWOOD, ILLINOIS</b></p>		<p><b>REVISIONS</b></p> <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Remarks</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	No.	Date	Remarks																														
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<p>Drawn by: <b>RG</b>          Checked by: <b>EJT</b>          Sheet <b>03</b> of <b>13</b></p>	<p>Date: <b>03/27/07</b>          Scale: <b>1"=400'</b>          Project No. <b>05-488</b></p>																																		



P. A. N. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00021-00-LT	COOK	13	04
FED. ROAD DIST. NO. 1	ALIGNED	FED. AID PROJECT MD-8003(535)		

CONTRACT NO. 83946



SCALE: 1"=20'



**LEGEND**

- #●● PROPOSED LIGHT LOCATION
- PROPOSED UNDERGROUND CABLE
- EXISTING COMED PEDESTAL
- EXISTING COMED TRANSFORMER
- ⊕ EXISTING COMED POWER POLE
- - - EXISTING UTILITY EASEMENT

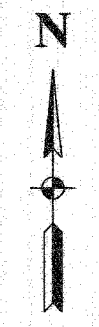
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 2003 Black & White Digital Orthomogery, 2003

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<b>BEACON STREET LIGHTING</b> <b>MFT SECTION NO. 05-00021-00-LT</b> <b>PLAN SHEET</b> <b>LOCATIONS 1, 2, 3, &amp; 4</b>			
<b>LYNWOOD, ILLINOIS</b>			
Drawn by: RG	Date: 03/27/07		
Checked by: EJT	Scale: 1"=20'		
Sheet 04 of 13	Project No. 05-468		

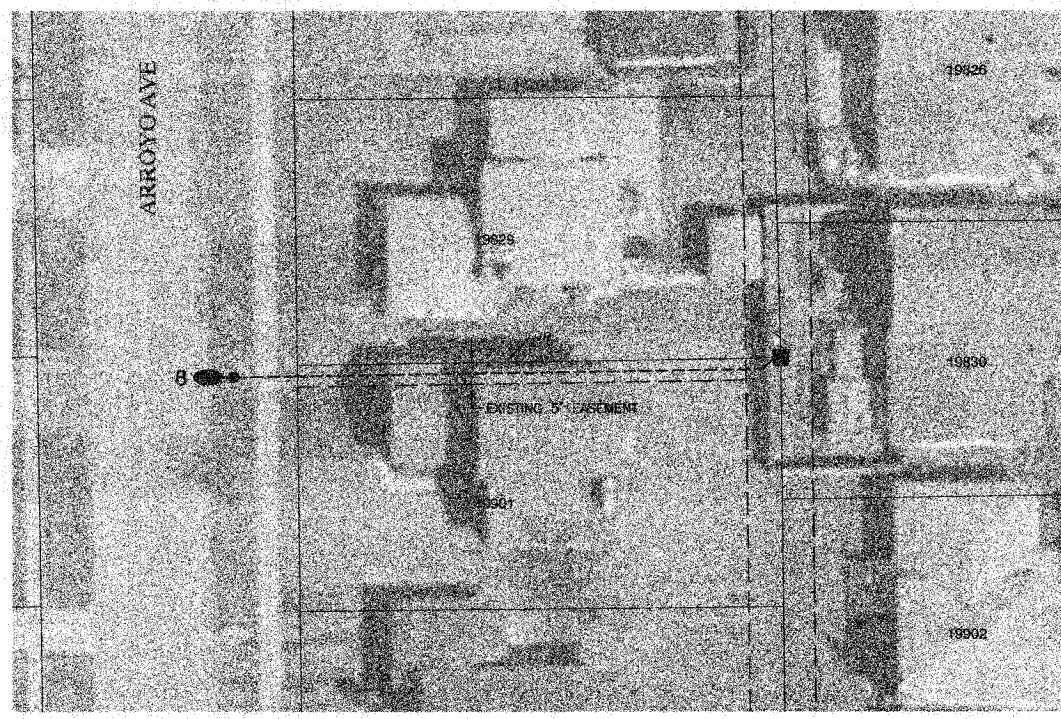
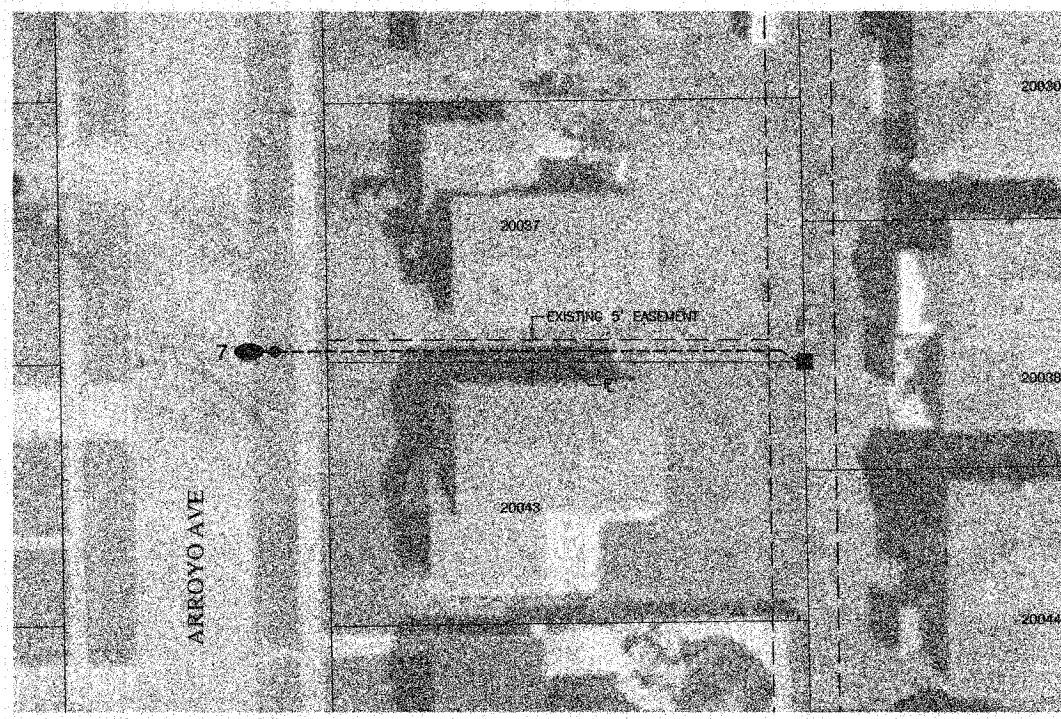
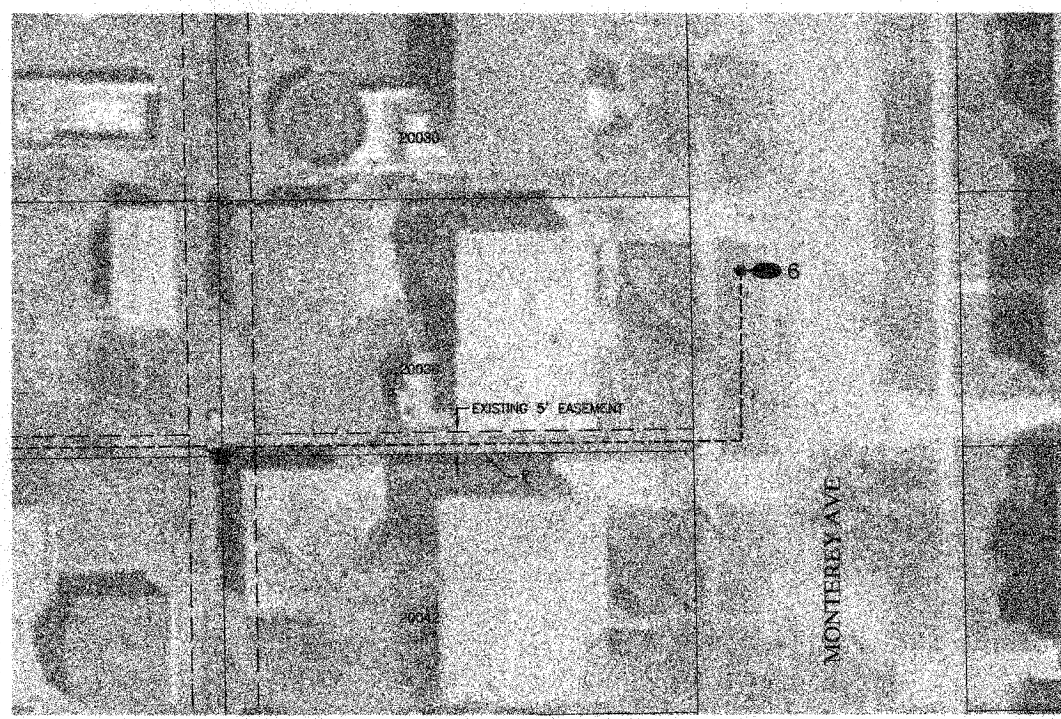
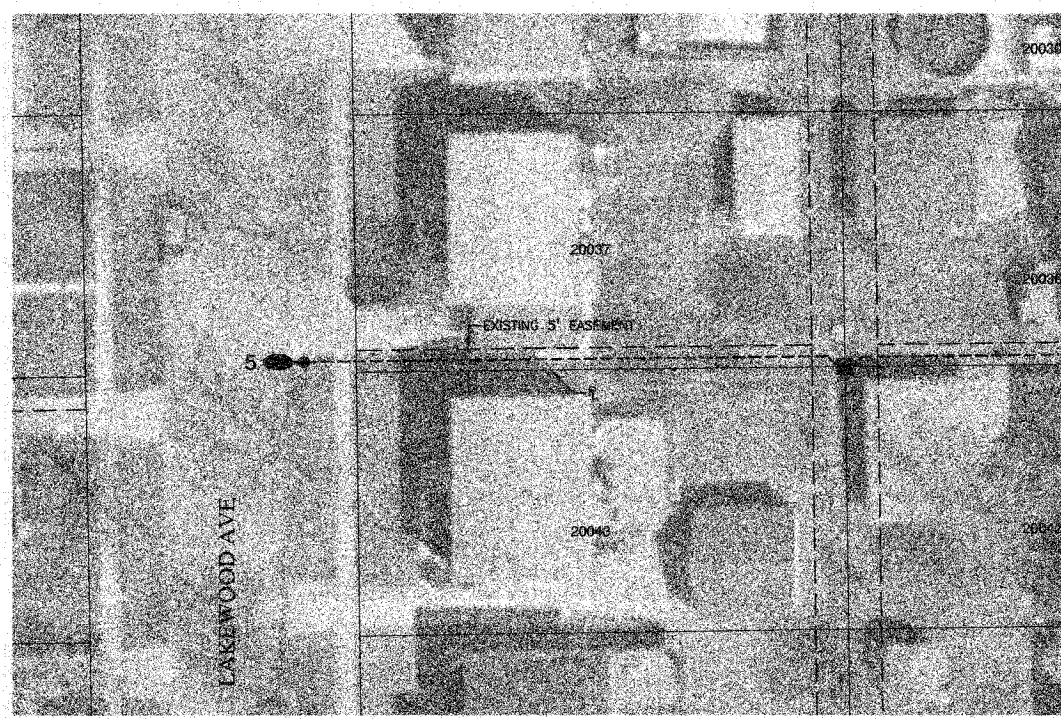


P. A. N. I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00021-00-LT	COOK	13	05
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	HD-8003(535)	

CONTRACT NO. 83946



SCALE: 1" = 20'



**LEGEND**

- #●● PROPOSED LIGHT LOCATION
- PROPOSED UNDERGROUND CABLE
- EXISTING COMED PEDESTAL
- EXISTING COMED TRANSFORMER
- ⊕ EXISTING COMED POWER POLE
- - - EXISTING UTILITY EASEMENT

Source: Cook County, Illinois 1:1200 - Scale  
 2002 Parcels, Version 1.0, June 2002  
 2003 Black & White Digital Orthimagery, 2003

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**BEACON STREET LIGHTING**  
 MFT SECTION NO. 05-00021-00-LT  
 PLAN SHEET  
 LOCATIONS 5, 6, 7, & 8

**LYNWOOD, ILLINOIS**

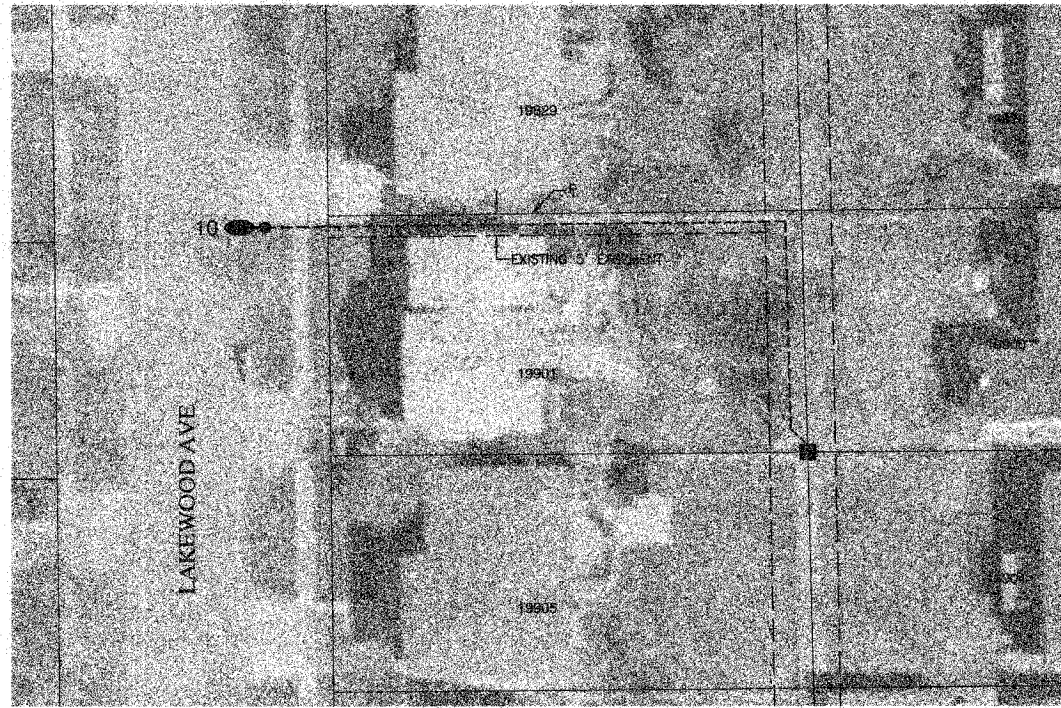
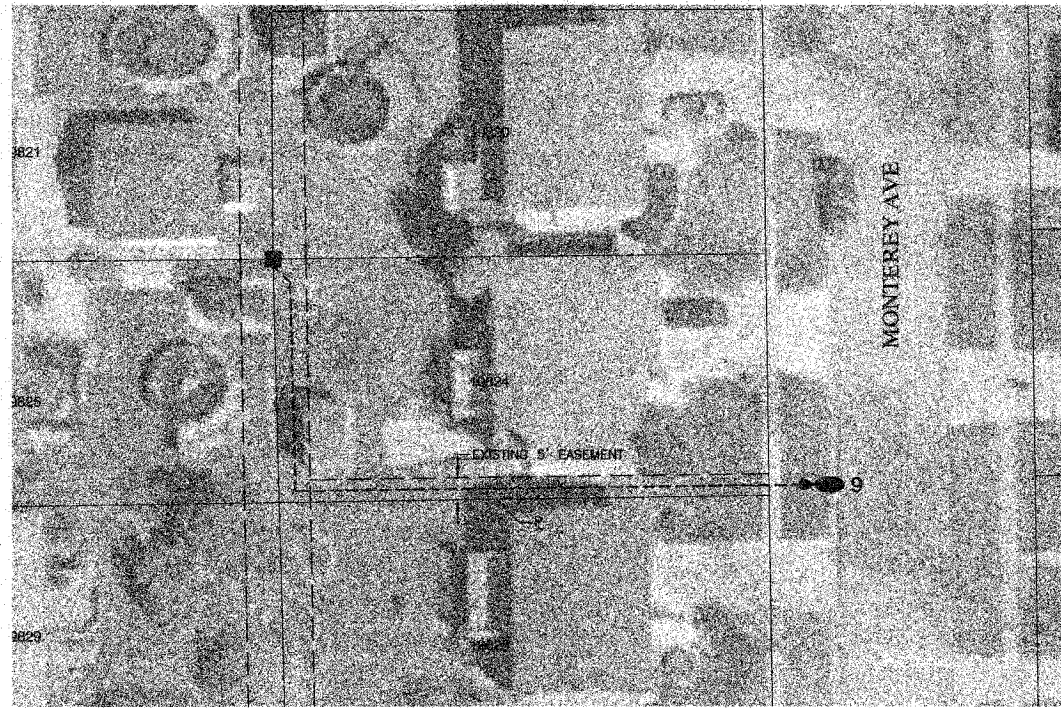
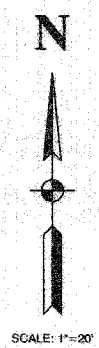
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 Sheet: 05 of 13 Project No.: 05-488

REVISIONS		
No.	Date	Remarks



F. A. S. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
05-00021-00-LT	COOK	13	08	
FED. ROAD DIST. NO. 1	LEAVES	FED. AID PROJECT	HD-8003(935)	

CONTRACT NO. 83946



- LEGEND**
- #●● PROPOSED LIGHT LOCATION
  - - - PROPOSED UNDERGROUND CABLE
  - EXISTING COMED PEDESTAL
  - EXISTING COMED TRANSFORMER
  - ⊕ EXISTING COMED POWER POLE
  - - - EXISTING UTILITY EASEMENT

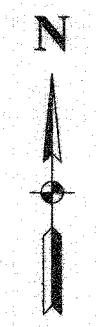
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Sheet 06 of 13	Project No. 05-488		

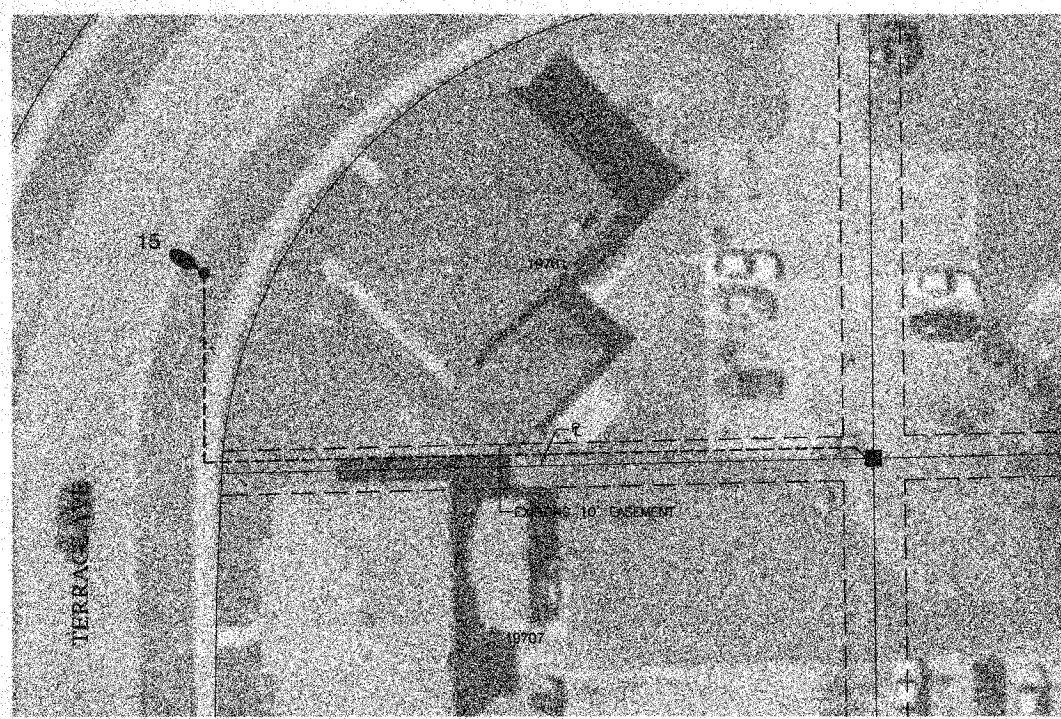
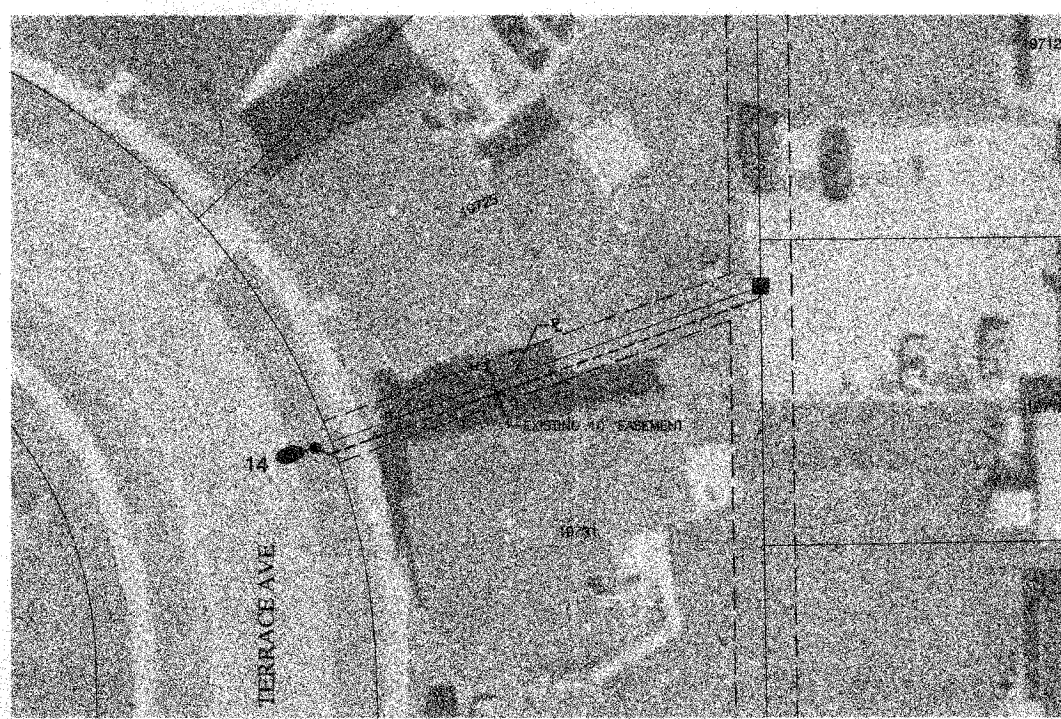
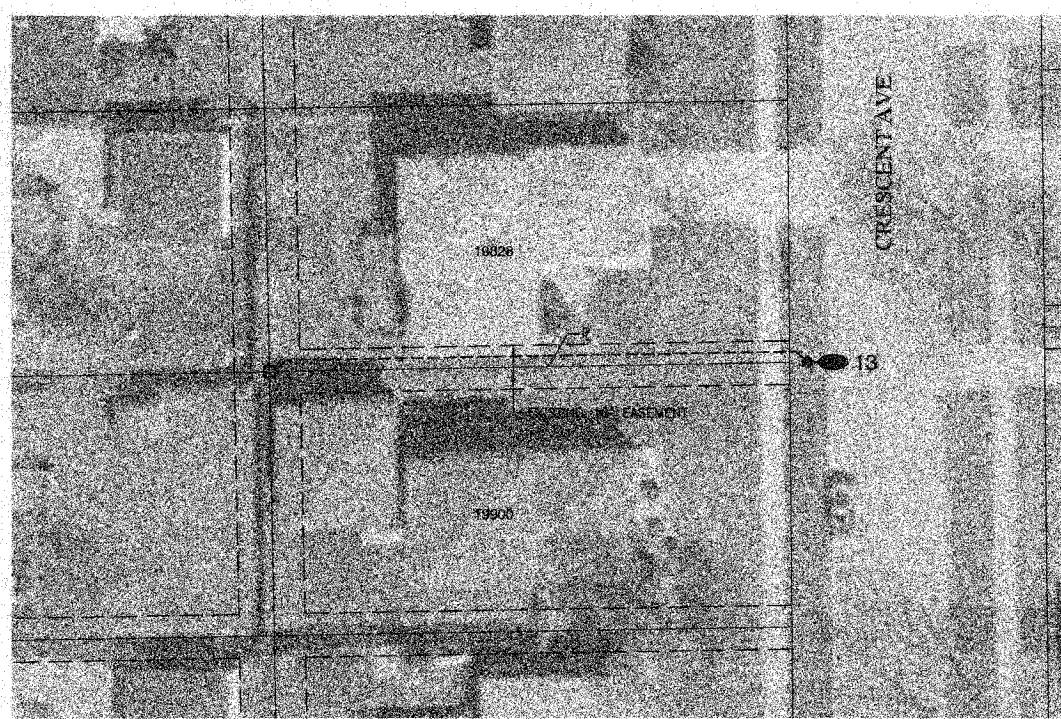


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	05-00021-00-LT	COOK	13	07
FED. ROAD DIST. NO.	1	ALIMITE	FED. AID PROJECT	HD-8003(535)

CONTRACT NO. 83946



SCALE: 1"=20'



- LEGEND**
- #●● PROPOSED LIGHT LOCATION
  - PROPOSED UNDERGROUND CABLE
  - EXISTING COMED PEDESTAL
  - EXISTING COMED TRANSFORMER
  - ⊙ EXISTING COMED POWER POLE
  - - - EXISTING UTILITY EASEMENT

Source: Cook County, Illinois 1:1200 - Scale  
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**BEACON STREET LIGHTING**  
MFT SECTION NO. 05-00021-00-LT  
PLAN SHEET  
LOCATIONS 13, 14, 15, & 16  
**LYNWOOD, ILLINOIS**

Drawn by: RG Date: 03/27/07  
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Sheet 07 of 13 Project No. 05-488

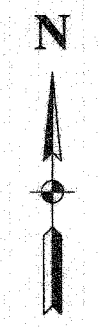
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No.	Date	Remarks



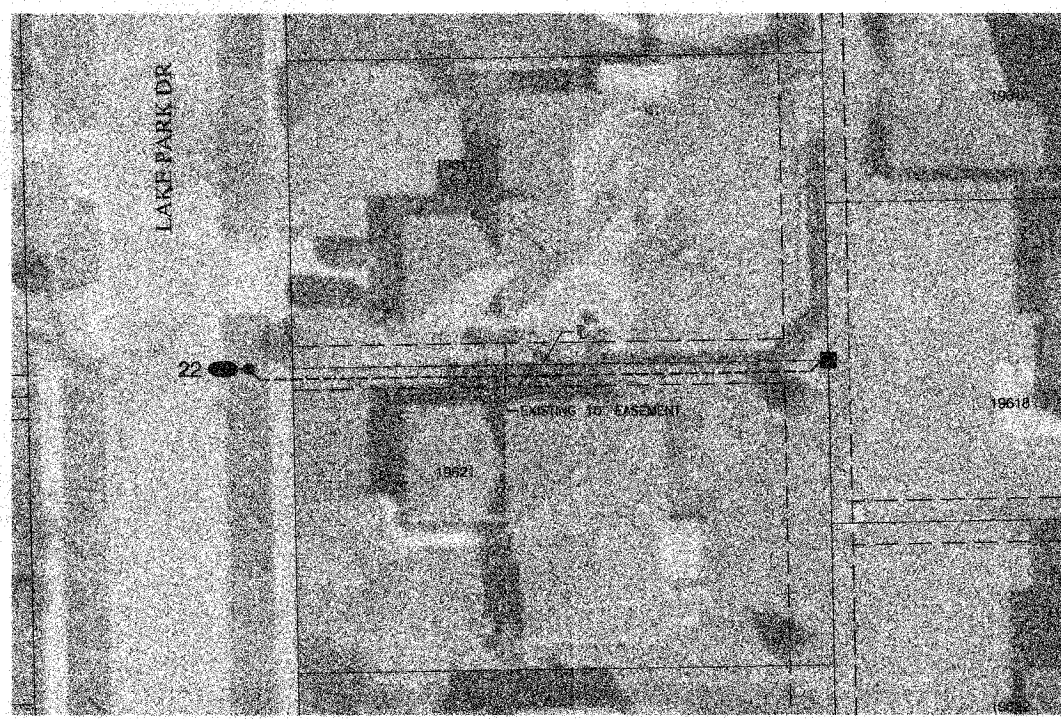
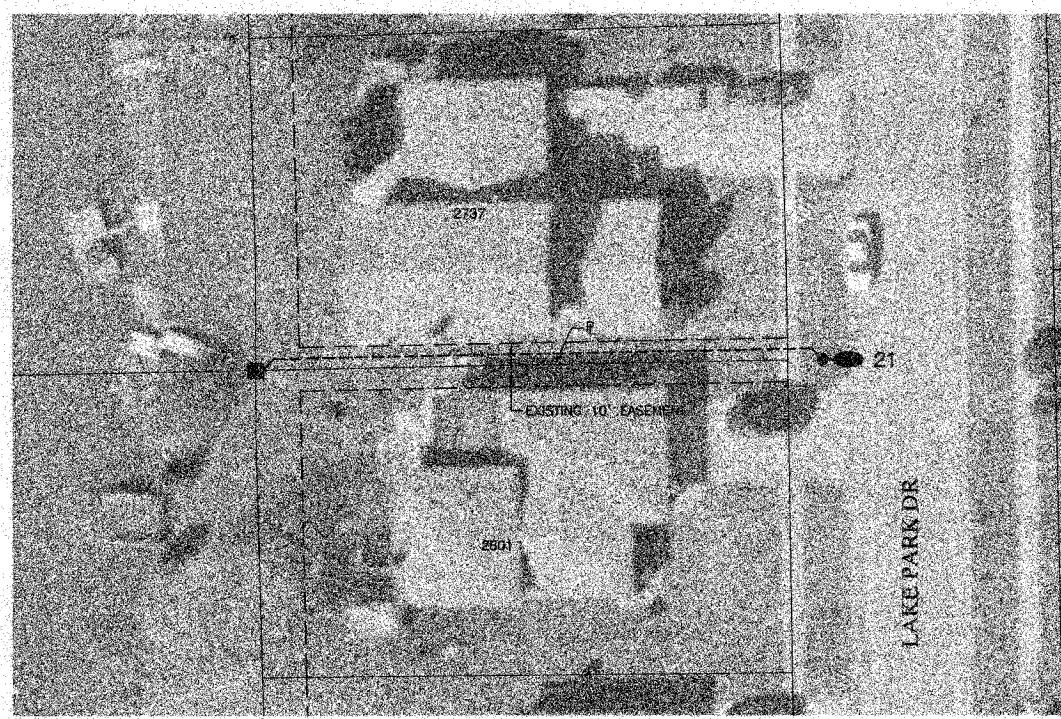
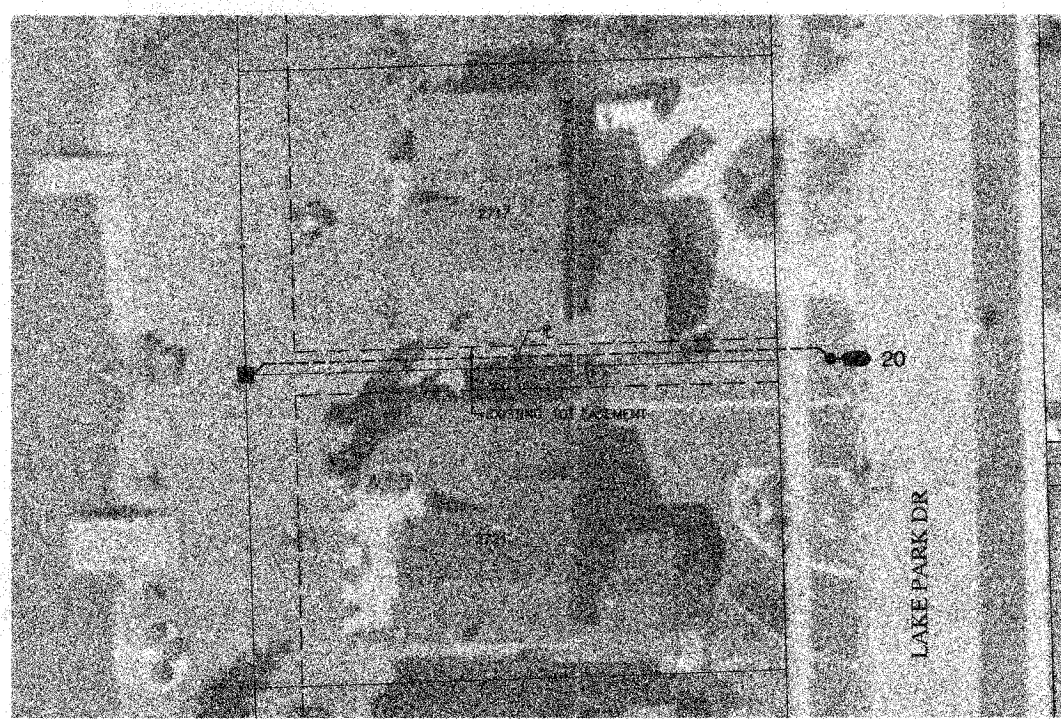
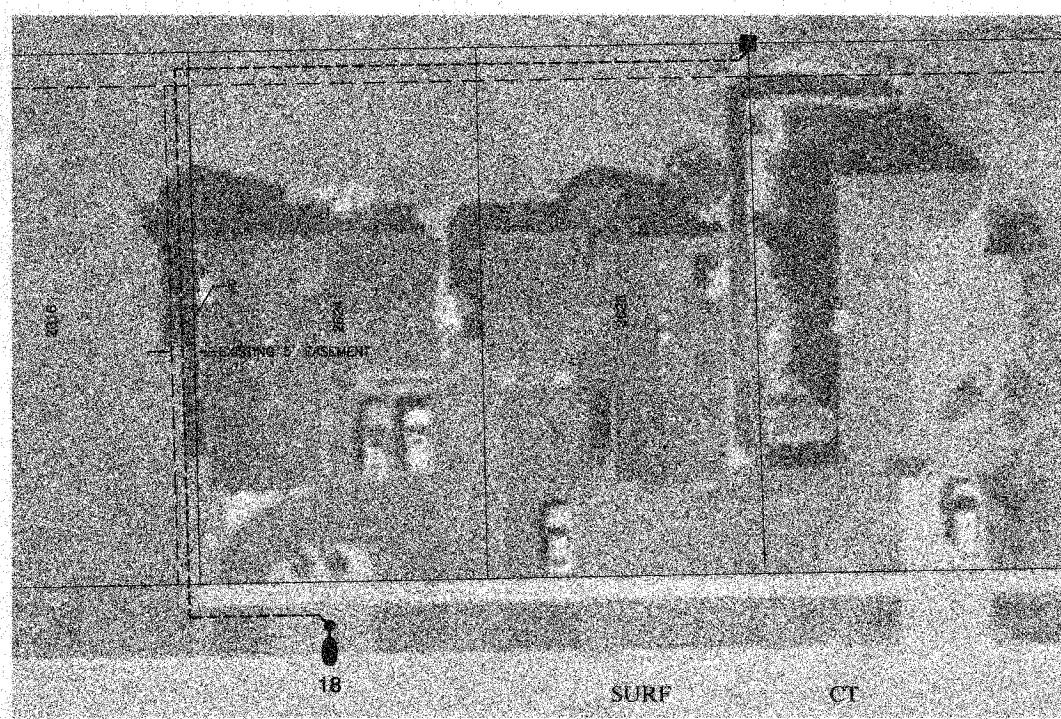


F. A. D. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00021-00-LT	COOK	13	08
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	HD-8003(535)	

CONTRACT NO. 83946



SCALE: 1"=20'



**LEGEND**

- #●● PROPOSED LIGHT LOCATION
- PROPOSED UNDERGROUND CABLE
- EXISTING COMED PEDESTAL
- EXISTING COMED TRANSFORMER
- ⊕ EXISTING COMED POWER POLE
- - - EXISTING UTILITY EASEMENT

Source: Cook County, Illinois 1:1200 - Scale  
2002 Parcels, Version 1.0, June 2002  
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**BEACON STREET LIGHTING**  
MFT SECTION NO. 05-00021-00-LT  
PLAN SHEET  
LOCATIONS 18, 20, 21, & 22  
**LYNWOOD, ILLINOIS**

Drawn by: RG Date: 03/27/07  
Checked by: EJT Scale: 1"=20'  
Sheet 08 of 13 Project No.: 05-468

REVISIONS		
No.	Date	Remarks

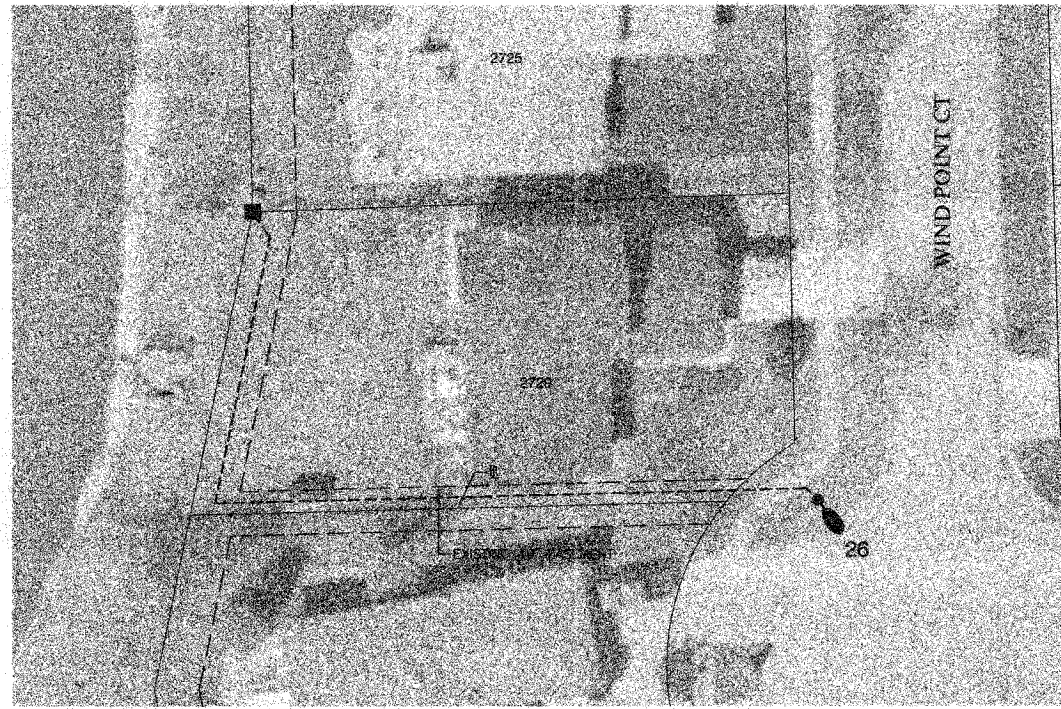
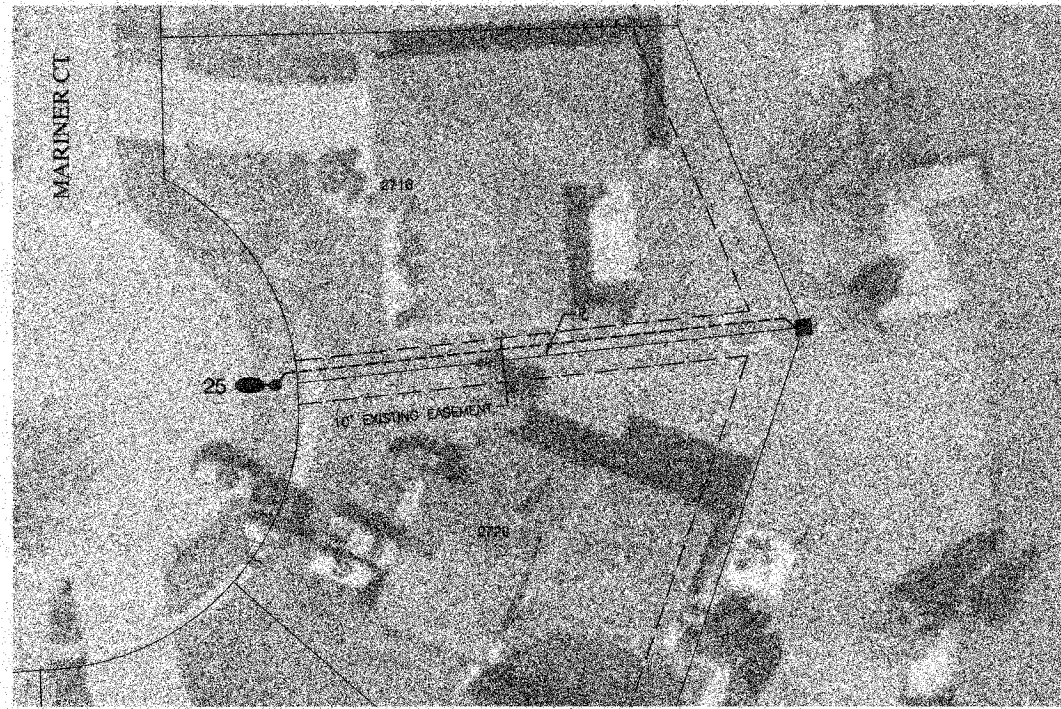
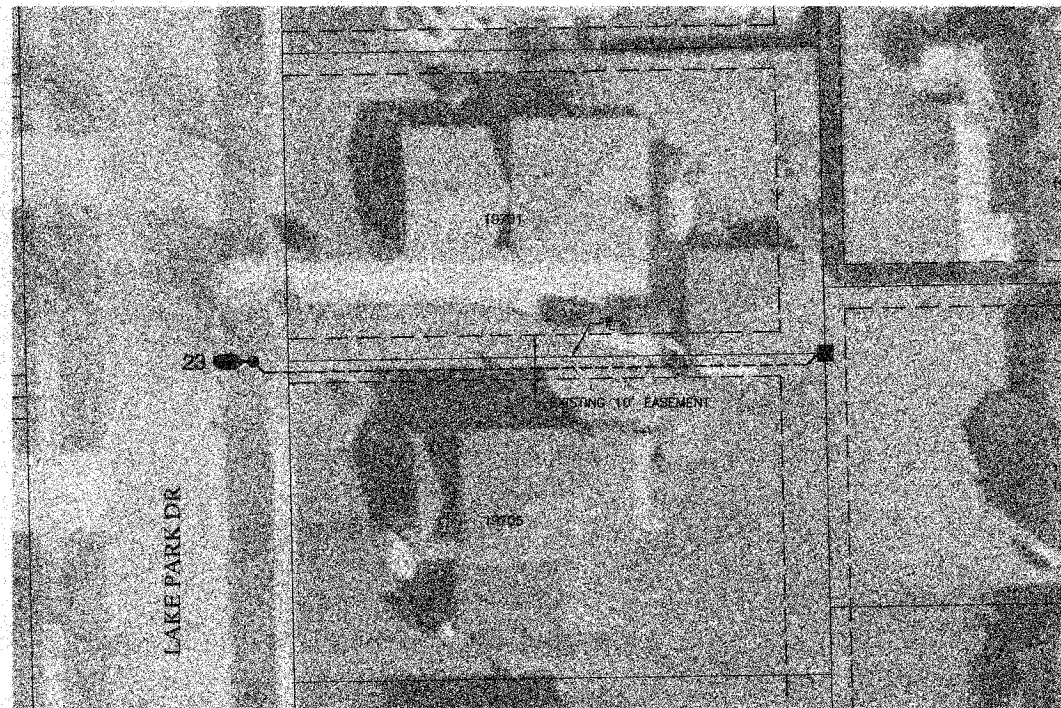


F. & S. FILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00021-00-LT	COOK	13	09
FED. ROAD DIST. NO. 1	ALSDIST	FED. AID PROJECT	HD-8003(535)	

CONTRACT NO. 83946



SCALE: 1"=20'



**LEGEND**

- #●● PROPOSED LIGHT LOCATION
- PROPOSED UNDERGROUND CABLE
- EXISTING COMED PEDESTAL
- EXISTING COMED TRANSFORMER
- ⊠ EXISTING COMED POWER POLE
- - - EXISTING UTILITY EASEMENT

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2002 Parcels, Version 1.0, June 2002  
2003 Black & White Digital Orthomagnery, 2003

<b>ROBINSON ENGINEERING, LTD.</b> CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HIGHLAND, ILLINOIS 60478 (708) 331-8700 FAX (708) 331-3526		<b>REVISIONS</b> No. Date Remarks	
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<b>BEACON STREET LIGHTING</b> MFT SECTION NO. 05-00021-00-LT PLAN SHEET LOCATIONS 23, 24, 25, & 26			
<b>LYNWOOD, ILLINOIS</b>			
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Checked by: EJT	Scale: 1"=20'		
Sheet 09 of 13	Project No. 05-486		

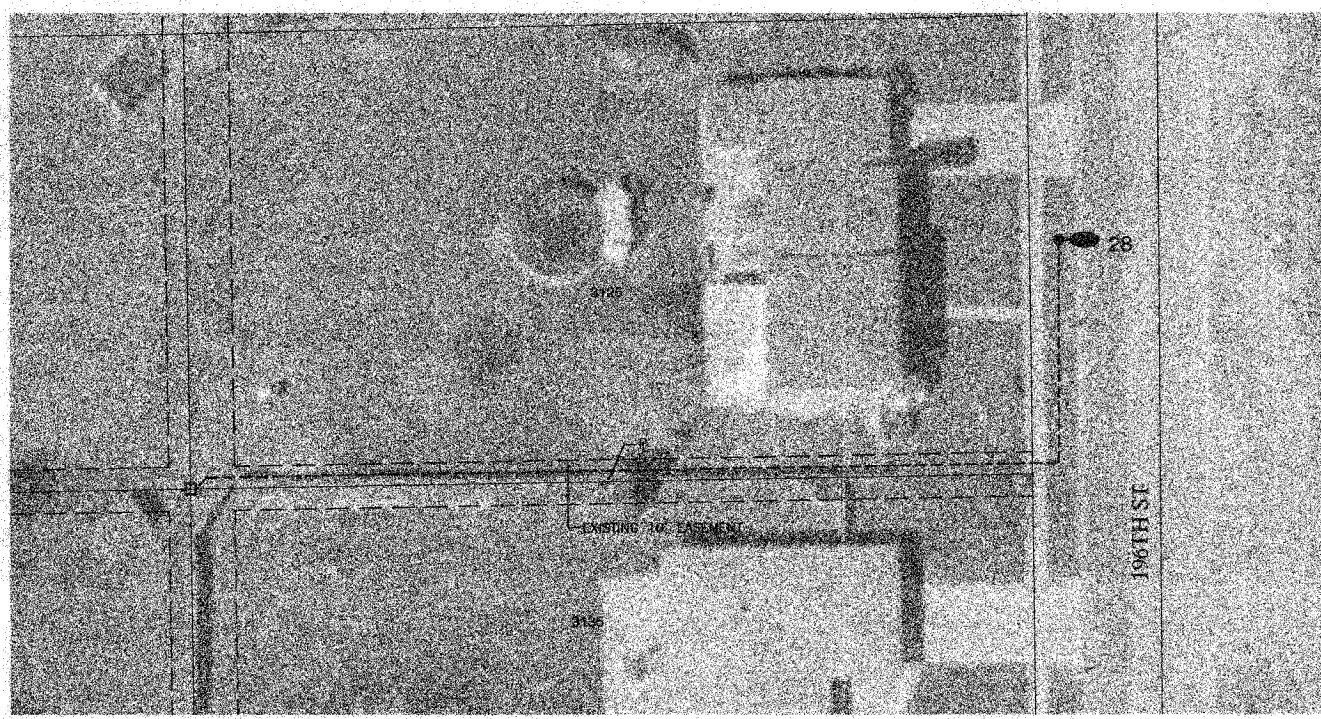
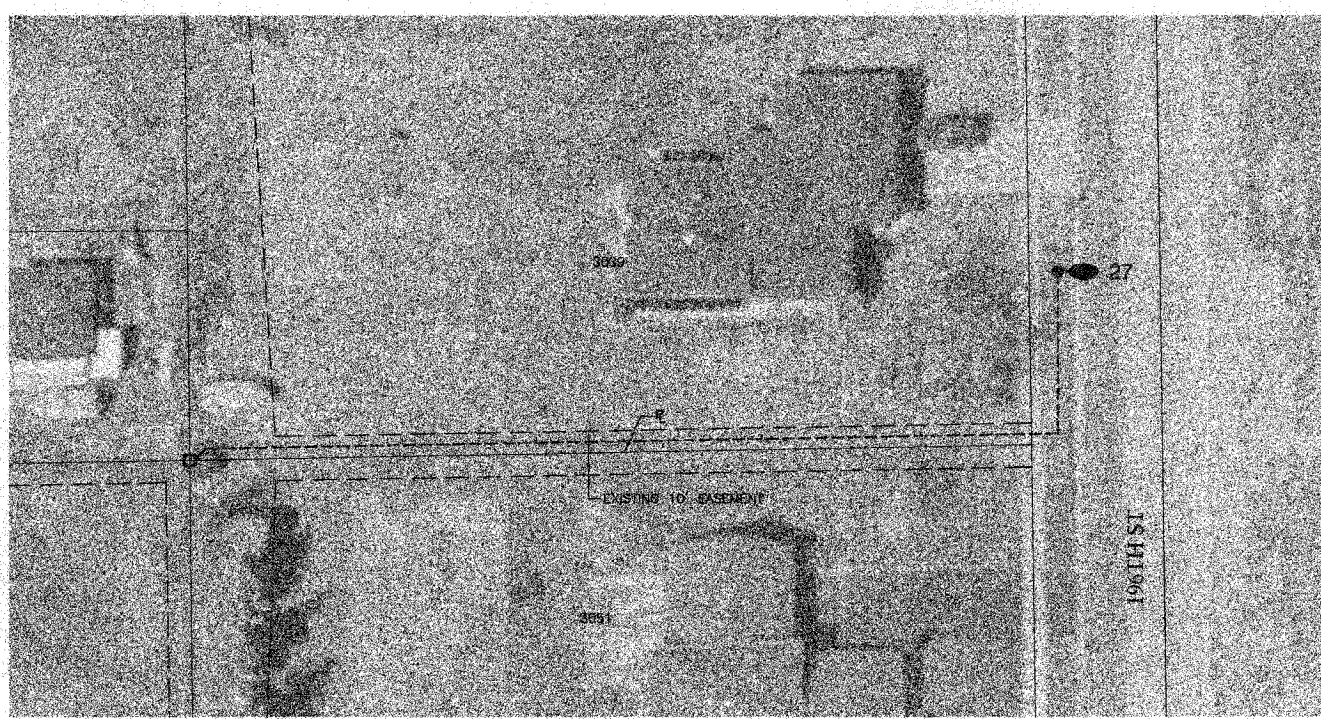


F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00021-00-LT	COOK	13	10
FED. ROAD DIST. NO. 1	ALINE	FED. AID PROJECT	HD-8003(535)	

CONTRACT NO. 83946



SCALE: 1"=20'



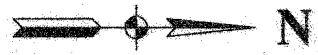
**LEGEND**

- #●● PROPOSED LIGHT LOCATION
- PROPOSED UNDERGROUND CABLE
- EXISTING COMED PEDESTAL
- EXISTING COMED TRANSFORMER
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<b>ROBINSON ENGINEERING, LTD.</b> CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 301-6100 FAX (708) 331-0826		<b>REVISIONS</b> No. Date Remarks	
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<b>BEACON STREET LIGHTING</b> MPT SECTION NO. 05-00021-00-LT PLAN SHEET LOCATIONS 27 & 28			
<b>LYNWOOD, ILLINOIS</b>			
Drawn by: RG	Date: 03/27/07		
Checked by: EJT	Scale: 1"=20'		
Sheet 10 of 13	Project No. 05-488		



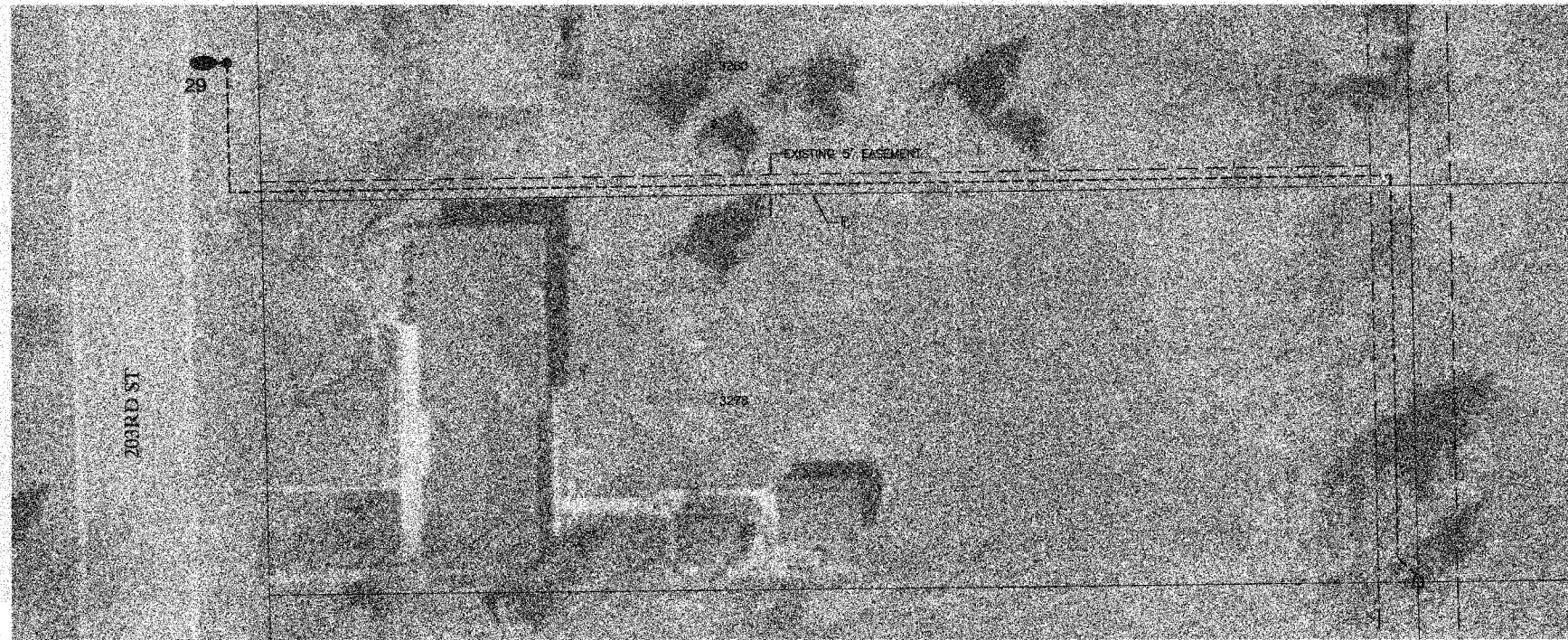


P. A. U. REL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00021-00-LT	COOK	13	11
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AC. PROJECT	HD-8002(535)	

CONTRACT NO. 83946



SCALE: 1"=20'



**LEGEND**

- #●● PROPOSED LIGHT LOCATION
- PROPOSED UNDERGROUND CABLE
- EXISTING COMED PEDESTAL
- EXISTING COMED TRANSFORMER
- ⊕ EXISTING COMED POWER POLE
- - - EXISTING UTILITY EASEMENT

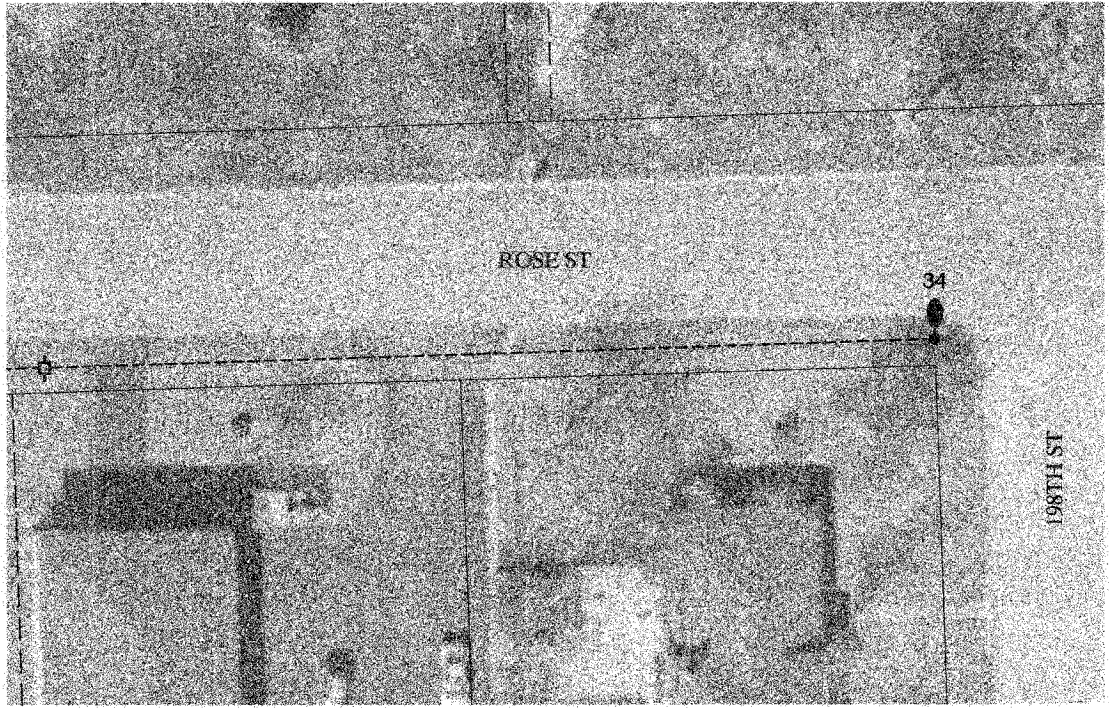
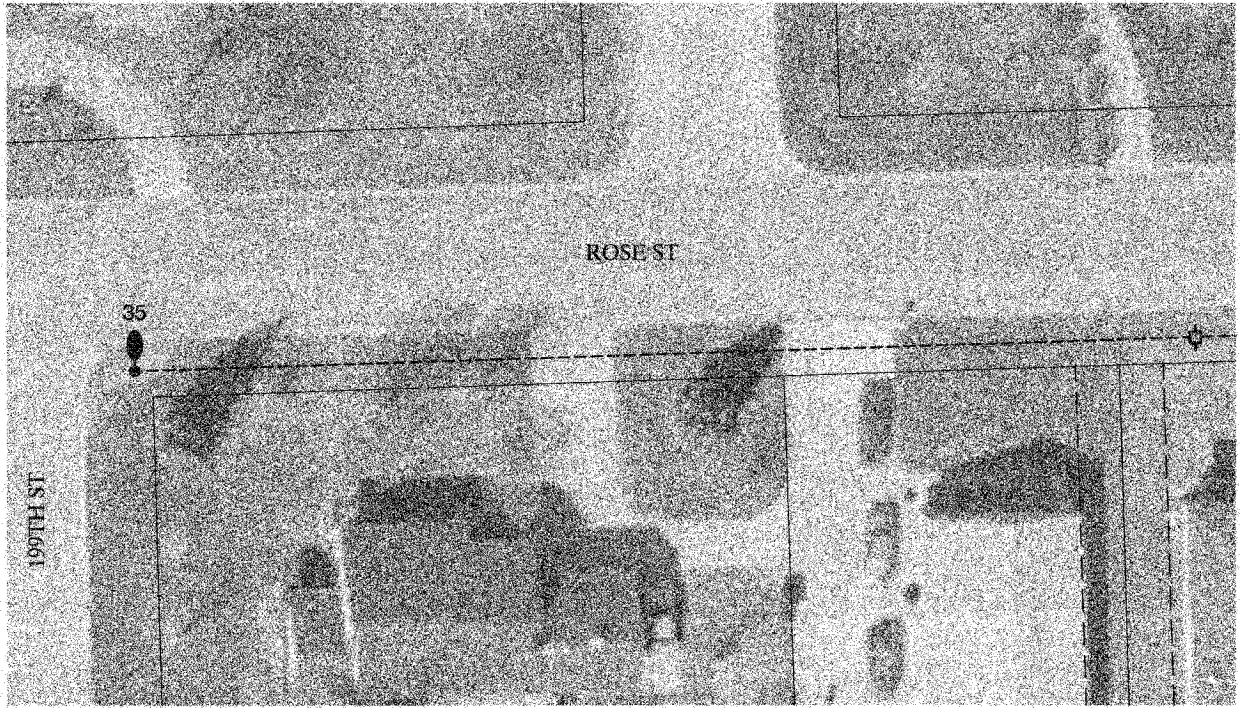
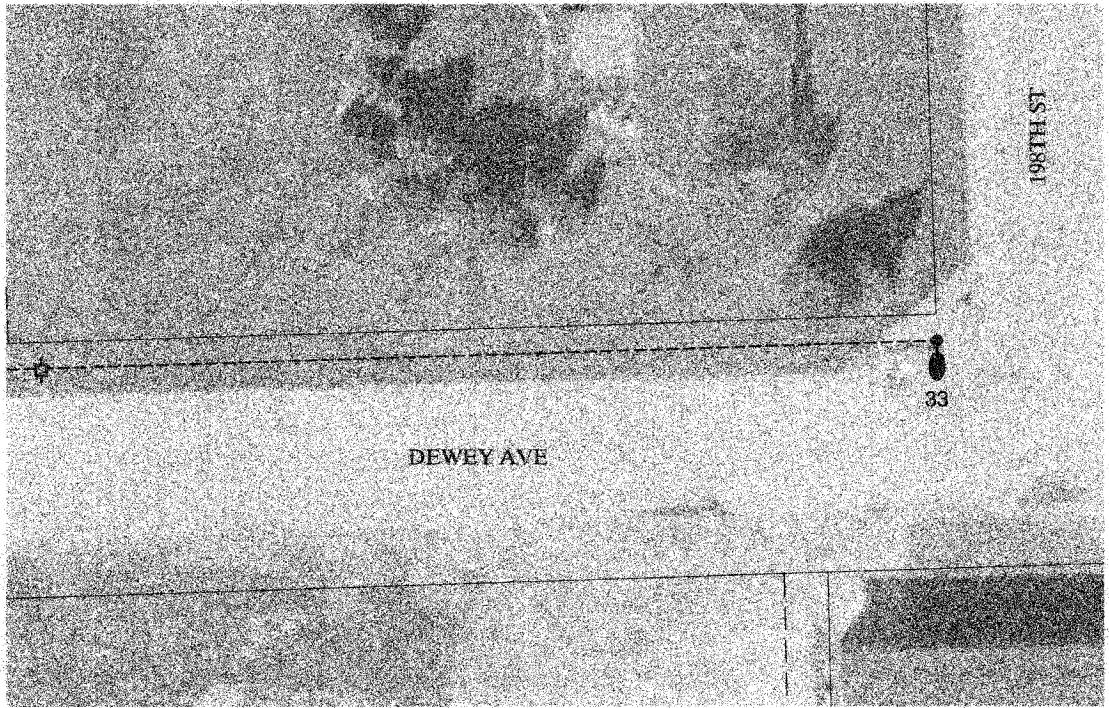
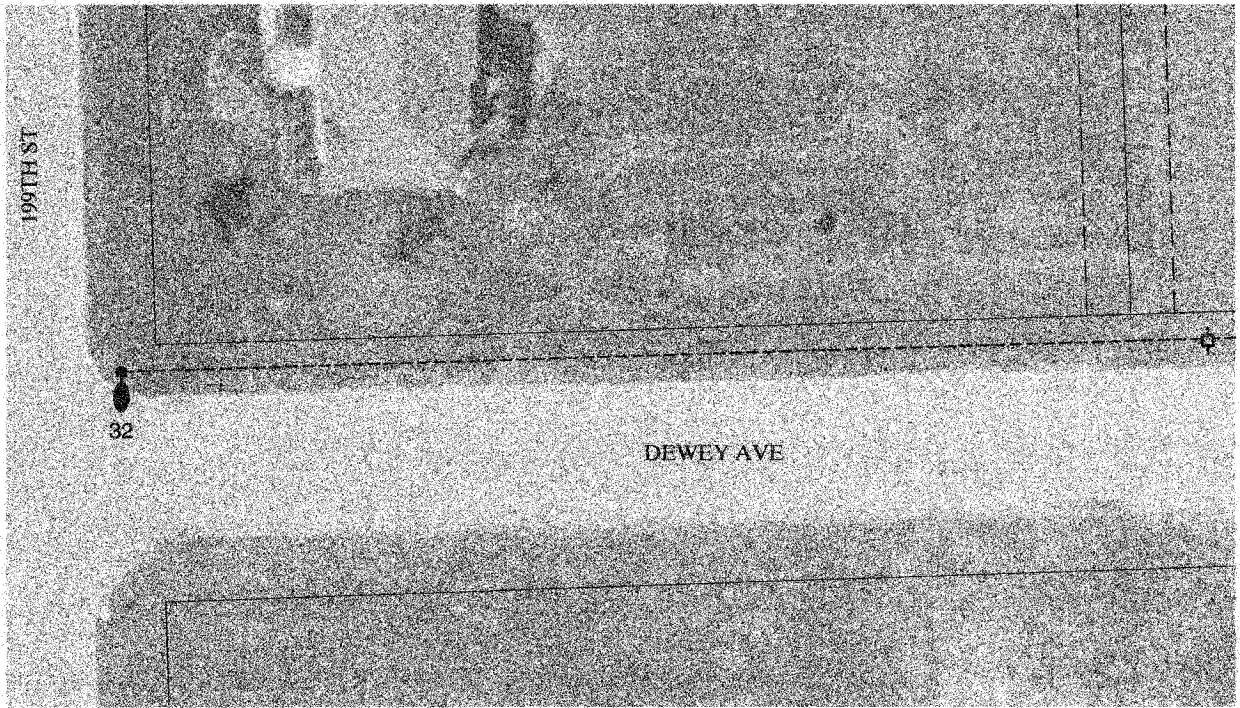
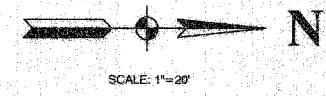
Source: Cook County, Illinois 1:1200 - Scale  
 2002 Parcels, Version 1.0, June 2002  
 2003 Black & White Digital Orthomage, 2003

<b>ROBINSON ENGINEERING, LTD.</b> CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17050 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473 (708) 331-6700 FAX (708) 331-3028		<b>REVISIONS</b> No. Date Remarks	
© COPYRIGHT 2007 ILLINOIS DESIGN FIRM REGISTRATION NO. 194001128			
<b>BEACON STREET LIGHTING</b> <b>MFT SECTION NO. 05-00021-00-LT</b> <b>PLAN SHEET</b> <b>LOCATIONS 29 &amp; 30</b>			
<b>LYNWOOD, ILLINOIS</b>			
Drawn by: RG	Date: 03/27/07		
Checked by: EJT	Scale: 1"=20'		
Sheet 11 of 13	Project No. 05-488		



P. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00021-00-LT	COOK	13	12
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	HD-8003(535)	

CONTRACT NO. 83946

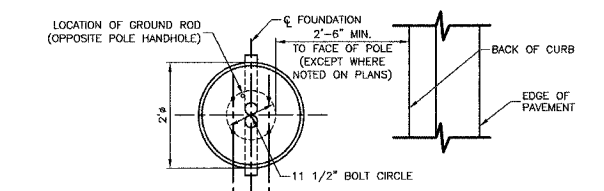


- LEGEND**
- #●● PROPOSED LIGHT LOCATION
  - PROPOSED UNDERGROUND CABLE
  - EXISTING COMED PEDESTAL
  - EXISTING COMED TRANSFORMER
  - ⊠ EXISTING COMED POWER POLE
  - - - EXISTING UTILITY EASEMENT

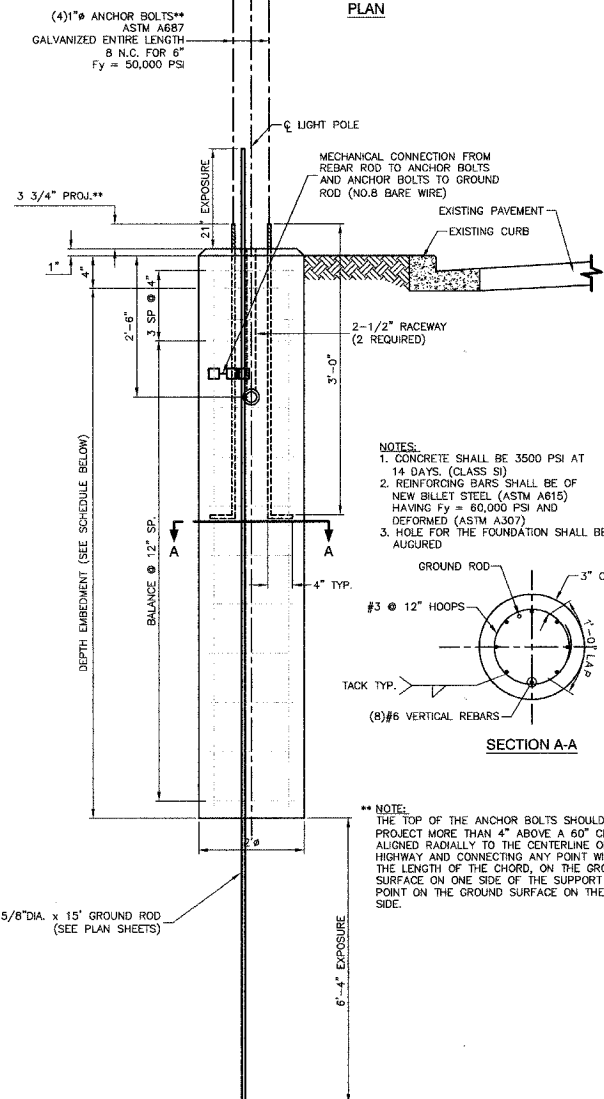
Source: Cook County, Illinois 1:1200 - Scale  
 2002 Parcels, Version 1.0, June 2002  
 2003 Black & White Digital Orthoimagery, 2003

<b>ROBINSON ENGINEERING, LTD.</b> CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17008 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60478 (708) 301-6700 FAX (708) 331-3855		<b>REVISIONS</b> No. Date Remarks	
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<b>BEACON STREET LIGHTING</b> MFT SECTION NO. 05-00021-00-LT PLAN SHEET LOCATIONS 32, 33, 34, & 35			
<b>LYNWOOD, ILLINOIS</b>			
Drawn by: RG	Date: 03/27/07		
Checked by: EJT	Scale: 1"=20'		
Sheet 12 of 13	Project No. 05-488		

CONTRACT NO. 83946



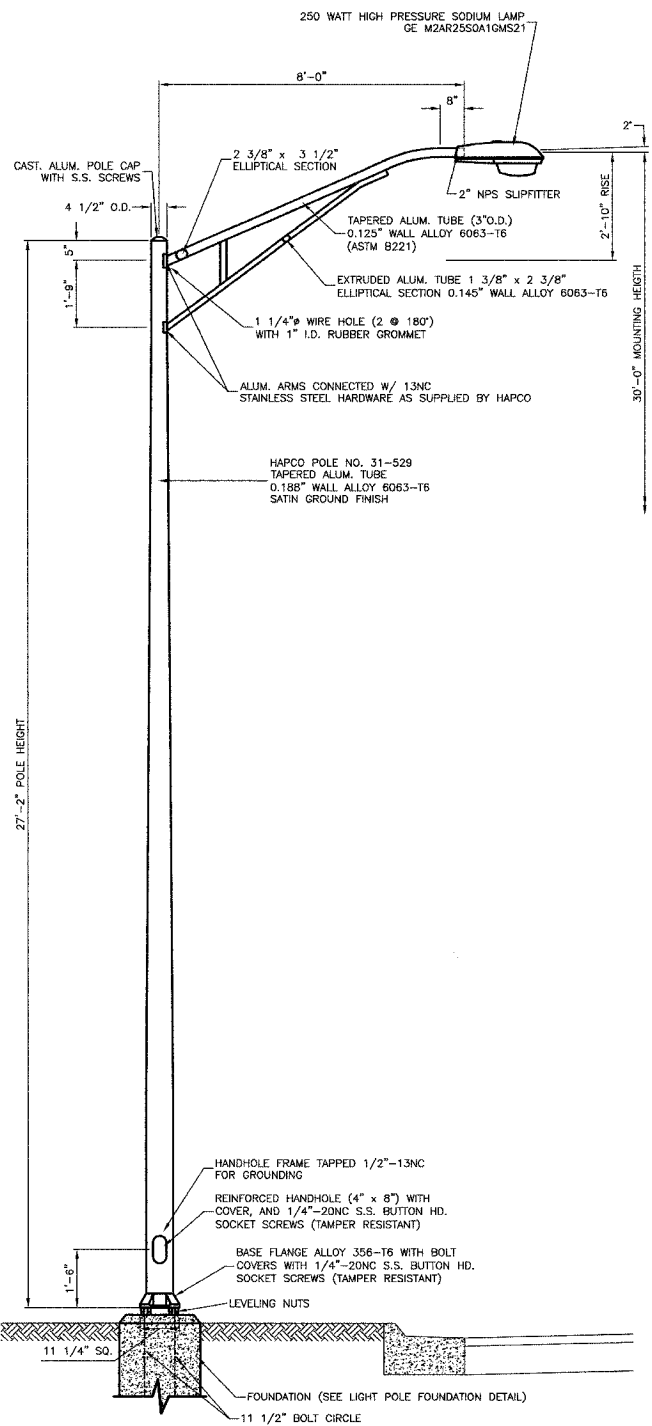
PLAN



ELEVATION

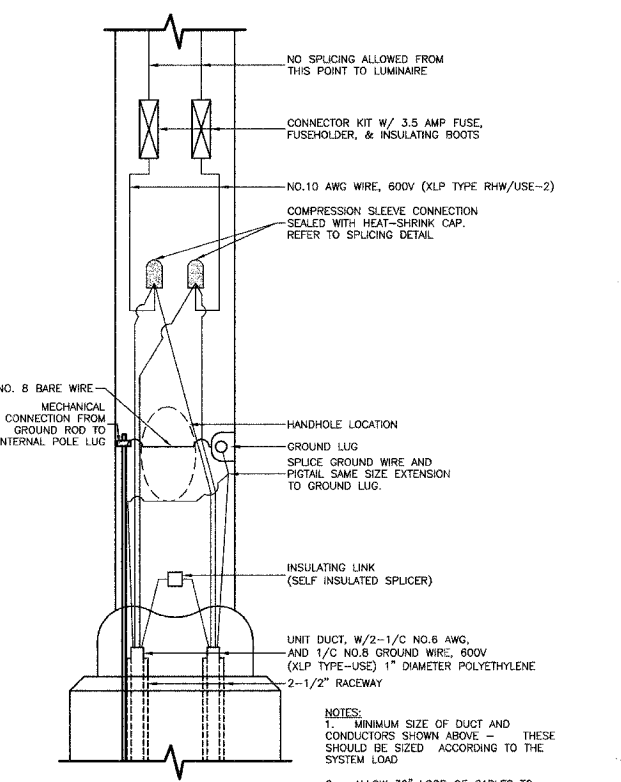
FOUNDATION SCHEDULE

TYPE OF SOILS		EMBEDMENT
DESCRIPTION	STANDARDS	MOUNTING HEIGHT
SOFT CLAY	$Q_u = .25-50 T/FT^2$	9'-0"
MEDIUM CLAY	$Q_u = .50-1.0 T/FT^2$	6'-6"
DENSE CLAY	$Q_u = 1.0-2.0 T/FT^2$	5'-6"
LOOSE SAND	$N = 4-10$	7'-0"
MEDIUM SAND	$N = 10-30$	6'-6"
DENSE SAND	$N = 30-50$	5'-6"

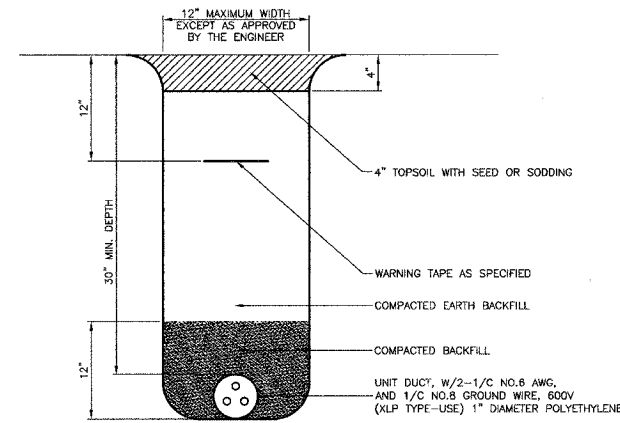


TYPICAL POLE INSTALLATION

NOTE: THE LIGHTING UNITS SHALL MEET AASHTO DESIGN CRITERIA DESIGN FOR 99 M.P.H. WIND WITH 30% GUST AND 75 POUND LUMINAIRE HAVING AN E.P.A. OF 1.6 SQ. FT. AND PROPER ICE LOADING.

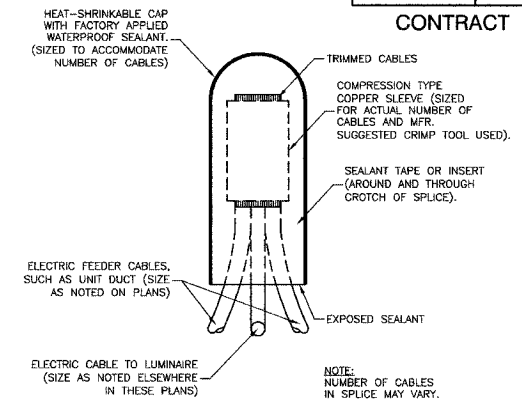


POLE HANDHOLE WIRING DIAGRAM



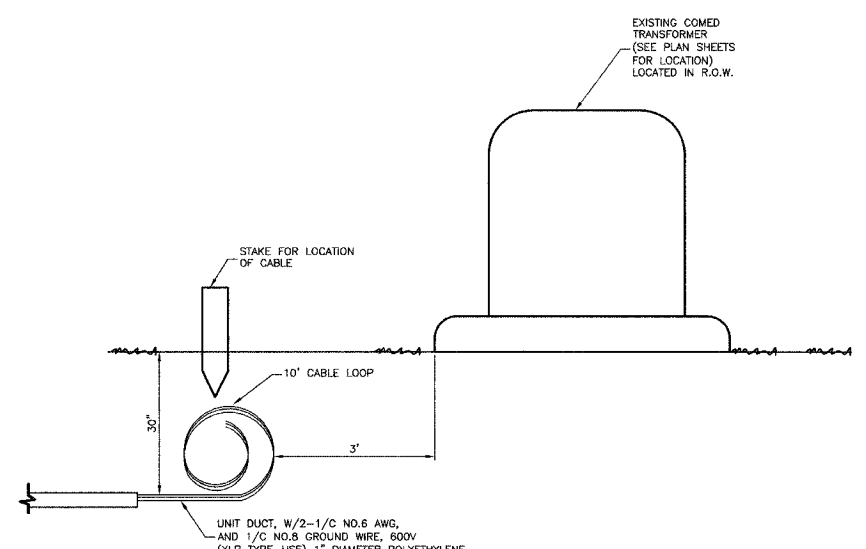
TYPICAL TRENCH DETAIL FOR ELECTRIC CABLE

NOTE: MINIMUM SIZE OF DUCT AND CONDUCTORS SHOWN ABOVE - THESE SHOULD BE SIZED ACCORDING TO THE SYSTEM LOAD.



SPlicing DETAIL

NOTE: NUMBER OF CABLES IN SPlice MAY VARY.



ELECTRIC UTILITY SERVICE CONNECTION

NOTES :

- ALL WORK TO CONFORM TO THE NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL CODES.
- CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE TRENCHING OR AUGERING.
- BEFORE INSTALLING STANDARDS NEAR OVERHEAD FACILITIES CALL C.E. Co. FOR APPROVAL OF LOCATION.
- FOR LOCATION OF EXISTING UNDERGROUND ELECTRICAL CABLE CALL C.E. Co.

ROBINSON ENGINEERING, LTD.  
CONSULTING REGISTERED PROFESSIONAL ENGINEERS  
AND PROFESSIONAL LAND SURVEYORS  
17000 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473  
(708) 331-8700 FAX (708) 331-3826

BEACON STREET LIGHTING  
MFT SECTION NO. 05-00021-00-LT  
LIGHTING DETAILS

LYNWOOD, ILLINOIS

Drawn by: RG Date: 03/27/07  
Checked by: EJT Scale: NONE  
Sheet 13 of 13 Project No. 05-488

REVISIONS		
No.	Date	Remarks