

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED FEDERAL AID URBAN PROJECT

F.A.U. RTE. 1447 (16TH STREET)
FROM HARLEM AVENUE (F.A.P. 348) TO
LOMBARD AVENUE (F.A.U. 3794)
FEDERAL PROJECT M-8003(581)
SECTION NO. 03-00159-00-RS
CITY OF BERWYN
COOK COUNTY
JOB NO. C-91-124-06

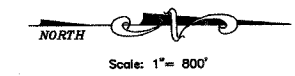


16TH STREET ADT = 14,000
POSTED SPEED LIMIT = 25 MPH
DESIGN SPEED LIMIT = 30 MPH

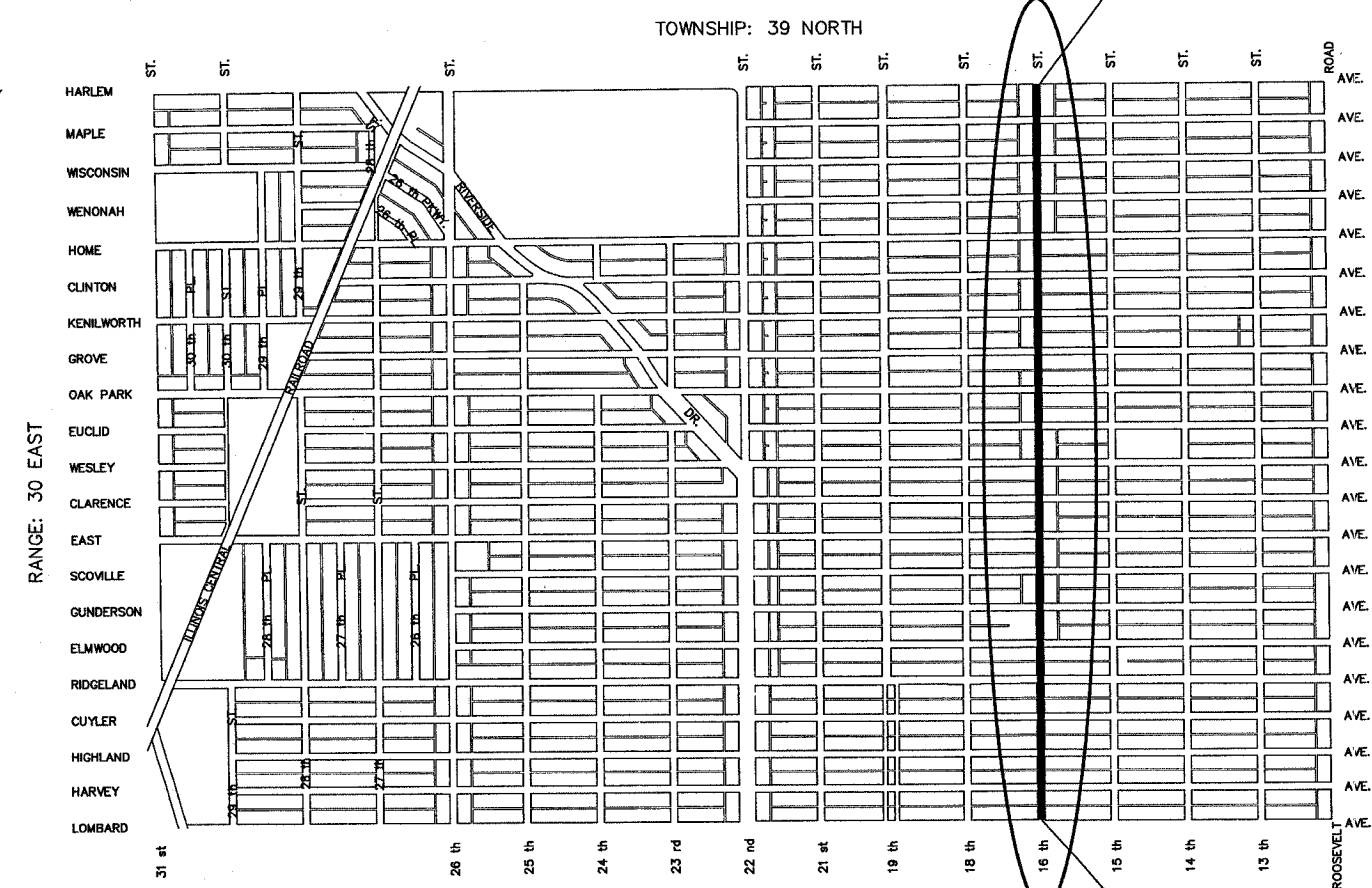
- INDEX TO SHEETS**
- 1) COVER SHEET, INDEX TO SHEETS, LOCATION MAP, INDEX OF STATE STANDARDS
 - 2) CONSTRUCTION NOTES, M.W.R.D. NOTES, PROJECT NOTES
 - 3) SUMMARY OF QUANTITIES
 - 4) TYPICAL CROSS SECTIONS, COMPOSITE PAVEMENT DESIGN, BITUMINOUS MIX REQUIREMENT
 - 5-9) PAVING PLAN (16th STREET)
 - 10-14) DRAINAGE PLAN (16th STREET)
 - 15) EMERGENCY VEHICLE DETECTION SYSTEM
 - 16) EMERGENCY VEHICLE TRAFFIC CONTROL SIGNALS
 - 17-18) STRIPING PLAN
 - 19) CONSTRUCTION STANDARDS
 - 20) DISTRICT 1-TYPICAL PAVEMENT MARKINGS
 - 21) DISTRICT 1-TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
 - 22) DISTRICT 1-TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS, AND DRIVEWAYS
 - 23) DISTRICT 1-FRAMES AND LIDS ADJUSTMENTS WITH MILLING
 - 24) DISTRICT 1-BUTT JOINT AND BITUMINOUS TAPER DETAILS

STATE STANDARDS

- | | |
|-----------|--|
| 00001-04 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 42401-04 | CURB RAMP FOR SIDEWALKS |
| 60601-02 | CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER |
| 701301-02 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701311-02 | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY |
| 701501-03 | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED |
| 701606-04 | URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN |
| 701701-04 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
| 701801-03 | LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE |
| 702001-05 | TRAFFIC CONTROL DEVICES |
| 780001-01 | TYPICAL PAVEMENT MARKINGS |
| 781001-02 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS |
| 886001 | DETECTOR LOOP INSTALLATIONS |
| 886006 | TYPICAL LAYOUTS FOR DETECTOR LOOPS |



PROJECT BEGINS
STA. 0+19



LOCATION MAP

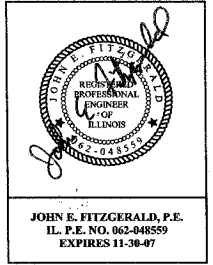
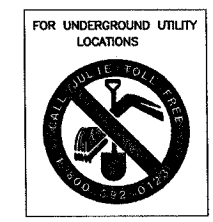
DENOTES PROJECT LOCATION

PROJECT ENDS
STA. 68+47

LENGTH OF PROJECT
GROSS LENGTH = 6,828 FT. (1.293 miles)
NET LENGTH = 6,828 FT. (1.293 miles)

PROJECT LOCATED IN THE
CITY OF BERWYN

CONTRACT NO. 83835

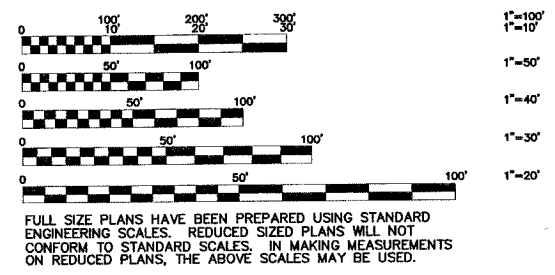


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FNA JOB # 02260

FEDERAL-AID DESIGN ENGINEER: ABIGAIL BRINKS (847)705-4233
CONSULTANT: FRANK NOVOTNY AND ASSOCIATES, INC. (630)887-8640

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS



GENERAL CONSTRUCTION NOTES PAVING AND STORM SEWERS

SPECIFICATIONS

THE LATEST EDITIONS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" SHALL GOVERN ALL WORK ASSOCIATED WITH THIS PROJECT. THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY GOVERN OTHER WORK ON THIS PROJECT AS INDICATED BY REFERENCE.

CARE IN EXCAVATION

CARE SHALL BE EXERCISED BY THE CONTRACTOR IN CARRYING OUT EARTH AND/OR TRENCHING OPERATIONS SO THAT LOCAL SERVICES, WATER VALVES, MANHOLES, CATCH BASINS, INLETS, BUFFALO BOXES, AND OTHER STRUCTURES ARE NOT DAMAGED OR REMOVED. ANY DAMAGE DONE BY THE CONTRACTOR, WHETHER THE STRUCTURE OR SERVICE IS VISIBLE AT THE GROUND SURFACE OR NOT, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AS REQUIRED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

NOTIFICATION OF PUBLIC UTILITIES

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OFFICIALS OF THE PUBLIC WORKS DEPARTMENT OF THE LOCAL MUNICIPALITY, J.U.L.I.E. AT 1-800-892-0123, AND OTHER PUBLIC AND PRIVATE UTILITIES SO THAT ARRANGEMENTS CAN BE MADE TO LOCATE THEIR VARIOUS FACILITIES WITHIN THE LIMITS OF CONSTRUCTION UNDER THIS CONTRACT, AS WELL AS TO PROVIDE ADEQUATE PROTECTION AND INSPECTION THERETO. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES IN THE FIELD.

TRAFFIC CONTROL DEVICES

BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 107.14 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". ADEQUATE LIGHTING SHALL BE MAINTAINED FROM DUSK TO DAWN AT ALL LOCATIONS WHERE CONSTRUCTION OPERATIONS WARRANT, OR AS DESIGNATED BY THE ENGINEER.

EXCAVATED MATERIALS

THE WASTE OBTAINED FROM EARTH OR TRENCH EXCAVATION INCLUDED UNDER THIS CONTRACT SHALL NOT BE DISPOSED OF BY THE CONTRACTOR UNTIL PERMISSION IS RECEIVED FROM THE OWNER SINCE THEY MAY REQUIRE THE CONTRACTOR TO DISPOSE OF THIS MATERIAL AT LOCATIONS AS DESIGNATED. THE CONTRACT UNIT PRICE BIDS FOR TRENCH BACKFILL AND SELECTED GRANULAR BACKFILL SHALL INCLUDE DISPOSAL OF WASTE MATERIALS AS MAY OR MAY NOT BE DESIGNATED ABOVE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THEREFORE, AS A PROVISION OF THIS CONTRACT, THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF ALL SURPLUS TRENCH SPOIL MATERIALS OFF THE SITE AS WORK PROGRESSES. THE TEMPORARY STOCKPILING OF THIS MATERIAL ON THE PROJECT SITE WILL NOT BE ALLOWED.

PROTECTION OF SIGNS AND PROPERTY

ALL TRAFFIC SIGNS, STREET SIGNS, ETC., THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AND PLACED AT NEW LOCATIONS AS DESIGNATED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. IN ADDITION, ALL MAIL BOXES THAT INTERFERE WITH CONSTRUCTION SHALL BE SIMILARLY RELOCATED AT NO ADDITIONAL COST IN ACCORDANCE WITH ARTICLES 107.20 AND 107.21 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

SUPERINTENDENCE

SPECIAL ATTENTION IS DRAWN TO ARTICLE 105.06 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WHICH REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES, IRRESPECTIVE OF THE AMOUNT OF WORK SUBLET. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT AND SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVING CONTROL OF ALL THE WORK AS THE AGENT OF THE GENERAL CONTRACTOR. FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 108.07.

SCHEDULE OF OPERATIONS

THE CONTRACTOR SHALL SUBMIT IN WRITING A "SCHEDULE OF OPERATIONS" SHOWING APPROXIMATE DATES FOR COMMENCING AND COMPLETING VARIOUS PHASES OF CONSTRUCTION INCLUDED IN THE CONTRACT. PRIOR TO COMMENCING ANY CONSTRUCTION UNDER THIS CONTRACT, THE SCHEDULE SHALL HAVE THE APPROVAL OF THE ENGINEER AND THE DATE FOR STARTING SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE ENGINEER.

SAWING EXISTING IMPROVEMENTS

ALL PERMANENT TYPE PAVEMENTS OR OTHER PERMANENT IMPROVEMENTS WHICH ABOUT THE PROPOSED IMPROVEMENT AND MUST BE SAWED AS DIRECTED PRIOR TO REMOVAL. ALL ITEMS SO REMOVED SHALL BE REPLACED WITH SIMILAR CONSTRUCTION MATERIALS TO THEIR ORIGINAL CONDITION OR BETTER. PAYMENT FOR SAWING SHALL BE INCLUDED IN THE COST FOR THE REMOVAL OF EACH ITEM, AND REPLACEMENT WILL BE PAID FOR UNDER THE RESPECTIVE ITEMS IN THE CONTRACT UNLESS OTHERWISE INDICATED.

TREES AND BRANCHES

WHERE OVERHANGING BRANCHES INTERFERE WITH OPERATIONS OF CONSTRUCTION, SAID BRANCHES SHALL BE TRIMMED AND SEALED IN ACCORDANCE WITH SECTION 253.09 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND THE COST OF SAME SHALL BE INCIDENTAL TO THE CONTRACT.

WATER VALVE BOXES AND DOMESTIC WATER SERVICE BOXES

WATER VALVE BOXES AND DOMESTIC WATER SERVICE BOXES THAT ARE LOCATED DURING CONSTRUCTION SHALL BE ADJUSTED TO THE FINISH GRADE SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

TRENCH BACKFILL, SELECTED GRANULAR BACKFILL, BEDDING AND CRADLE

WHENEVER "TRENCH BACKFILL" OR "SELECTED GRANULAR BACKFILL" ARE REQUIRED, THE MATERIAL USED SHALL BE CA-6, CRUSHED LIMESTONE. THE USE OF SAND OR SLAG WILL NOT BE ALLOWED. TRENCH BACKFILL SHALL BE MEASURED IN CUBIC YARDS IN PLACE, EXCEPT THAT THE QUANTITY FOR WHICH PAYMENT WILL BE MADE SHALL NOT EXCEED THE VOLUME OF THE TRENCH AS COMPUTED BY USING THE FINAL BACKFILL COLUMN OF STANDARD DRAWING NO. 2 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION" INCLUDED IN THE SPECIAL PROVISIONS. ANY TRENCH BACKFILL REQUIRED IN EXCESS OF THE MAXIMUM QUANTITY THEREIN SPECIFIED SHALL BE FURNISHED BY THE CONTRACTOR AT HIS EXPENSE. SELECTED GRANULAR BACKFILL SHALL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

THE CONTRACTOR WILL ALSO BE REQUIRED TO PLACE BEDDING MATERIALS AT LEAST SIX INCHES (6"), OR 1/4 THE PIPE DIAMETER, WHICHEVER IS GREATER, IN THICKNESS BELOW THE PIPE, AND SHALL FURNISH ADDITIONAL CRADLE MATERIALS SUCH THAT THE LOWER 1/2 OF THE PIPE WILL BE UNIFORMLY SUPPORTED OVER ITS ENTIRE LENGTH. THESE BEDDING AND CRADLE MATERIALS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID PER FOOT FOR THE RESPECTIVE PIPELINE BEING INSTALLED. MATERIALS USED SHALL BE SIMILAR TO THOSE USED FOR TRENCH BACKFILL.

WHENEVER TRENCHING OPERATIONS CROSS ANOTHER UTILITY LINE OR SERVICE LINE, THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO INSURE AGAINST THE FAILURE OF SAID UTILITY LINE. THE CONTRACTOR SHALL FURNISH SUFFICIENT BRACING UNDER THE LINES SUCH THAT THE UNSUPPORTED LENGTH WILL NOT DEFLECT WHILE THE TRENCH IS OPEN OR DURING THE BACKFILLING OR COMPACTING OPERATIONS. TRENCH BACKFILL MATERIALS SHALL BE USED TO AN ELEVATION OF THE BOTTOM OF THE HIGHER UTILITY AND PAID FOR ACCORDINGLY.

INCIDENTAL CONSTRUCTION

WHENEVER THE PERFORMANCE OF WORK IS INDICATED ON THE PLANS, AND NO ITEM IS INCLUDED IN THE CONTRACT FOR PAYMENT, THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CONSTRUCTION LAYOUT STAKES

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH CONSTRUCTION STAKES OR OTHER LAYOUT MATERIALS FOR LAYOUT OF THE LINES AND GRADES OF THE PROJECT, THIS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. FAILURE TO PROVIDE STAKES IN A TIMELY MANNER WILL RESULT IN A DELAY IN STAKEOUT WHICH WILL BE APPLICABLE AGAINST THE TIME LIMIT FOR COMPLETION SHOWN IN THE PROJECT SPECIFICATIONS. LINE AND GRADE WILL BE ESTABLISHED BY THE ENGINEER AT REGULAR INTERVALS ON PERMANENTLY PAVED SURFACES, SIDEWALKS OR STAKES AT THE ENGINEER'S OPTION, ALL WITHIN THE PUBLIC RIGHT-OF-WAY AND SHALL BE TRANSFERRED BY THE CONTRACTOR TO THE ACTUAL LINE OF CONSTRUCTION.

HALF TRAPS

THE LAST DRAINAGE STRUCTURE BEFORE THE CONNECTION TO A COMBINED SEWER SHALL BE INSTALLED WITH A HALF TRAP AS SHOWN ON THE CONSTRUCTION DETAILS SHEET. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE STRUCTURE.

MWRDGC GENERAL NOTES

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	2
F. HW. A. REG.	ILLINOIS	PROJECT STPM-8003(581)		

CONTRACT NO. 83835

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
LOCAL SEWER SYSTEMS SECTION

TYPICAL GENERAL NOTES

- The MWRD Local Sewer Systems Section Field Office must be notified at least two (2) working days prior to the commencement of any work (call 708/588-4055).
- Elevation datum is U.S.G.S.
Conversion equation is N/A
- All floor drains shall discharge to the sanitary sewer system.
- All downspouts and footing drains shall discharge to the storm sewer system.
- All sanitary sewer pipe materials and joints (and storm sewer pipe materials and joints in a combined sewer area) shall conform to:

Pipe Material Spec. Joint Spec.

<u>Vitrified Clay Pipe</u>	
VCP (C-700)	C-425
VCP (No-Bel)(C-700)	C-425
Joint	D-1784
Collar	
<u>Concrete Pipe (C-14)</u>	C-443
RCP (C-76)	C-443
ACP (C-428)	D-1869

<u>ABS Sewer Pipe</u>	
Solid Wall 6" dia. SDR 23.5	
ABS D-2751	D-2751

<u>ABS Composite/Truss Pipe</u>	
8" - 15" dia.	
ABS D-2680	D-2680

<u>PVC Gravity Sewer Pipe</u>	
6" - 15" dia. SDR 26	
D-3034	D-3212 or D-2855


<u>18" - 27" dia. F/dy=46</u>	
F-679	D-3212 or D-2855

<u>CISP A-74</u>	C-564
<u>DIP A-21.51</u>	A-21.11

(Note: The District has approved less common pipe materials on a qualified basis in addition to those above. Please contact the District if considering using pipe not listed above.)

BENCHMARKS

- | | |
|--|---|
| 1. N.E. CORNER OF HARLEM AVE. AND 16TH STREET
S.E. BOLT OF HYDRANT
BM = 621.58 | 6. N.W. CORNER OF EAST AVE. AND 16TH STREET
ARROW ON HYDRANT
BM = 619.91 |
| 2. N.W. CORNER OF WISCONSIN AVE. AND 16TH STREET
N.W. BOLT OF HYDRANT
BM = 620.18 | 7. N.W. CORNER OF GUNDERSON AVE. AND 16TH STREET
N.W. BOLT OF HYDRANT
BM = 618.94 |
| 3. N.W. CORNER OF WENONAH AVE. AND 16TH STREET
ARROW ON HYDRANT
BM = 620.04 | 8. N.W. CORNER OF RIDGELAND AVE. AND 16TH STREET
N.W. BOLT OF HYDRANT
BM = 619.18 |
| 4. N.W. CORNER OF KENILWORTH AVE. AND 16TH STREET
N.W. BOLT OF HYDRANT
BM = 620.57 | 9. N.W. CORNER OF HIGHLAND AVE. AND 16TH STREET
N.E. BOLT OF HYDRANT
BM = 617.67 |
| 5. N.W. CORNER OF OAK PARK AVE. AND 16TH STREET
N.W. BOLT OF HYDRANT
BM = 619.41 | 10. N.E. CORNER OF HARVEY AVE. AND 16TH STREET
N.W. BOLT OF HYDRANT
BM = 619.36 |

 **Frank Novotny & Associates, Inc.**
Civil Engineers/ Municipal Consultants 825 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 887-8640 • Fax: (630) 887-0132
Illinois Professional Design Firm No. 184-000928

PROJECT CITY OF BERWYN, ILLINOIS
16TH STREET RESURFACING
SECTION NO. 03-000159-00-RS

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

CONSTRUCTION NOTES
M.W.R.D. GENERAL NOTES
PROJECT NOTES

PROJECT NO. 02260	SCALE NONE	SHEET 2
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005	OF 24
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE	SHEETS

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SUMMARY OF QUANTITIES

CODE NO	DESCRIPTION	UNIT	PLAN QUANTITY	Fund Type 1000	Fund Type Y031 1F	100% Local Y060 Non-Participating
20800150	TRENCH BACKFILL	CU YD	83	83		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3778	3778		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	47	47		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	47	47		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	47	47		
25200100	SODDING	SQ YD	3778	3778		
25200200	SUPPLEMENTAL WATERING	UNIT	100	100		
28000510	INLET FILTERS	EACH	97	97		
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B, 4"	SQ YD	283	283		
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	15	15		
40600300	AGGREGATE (PRIME COAT)	TON	70	70		
40600400	MIXTURE FOR CRACKS, JOINTS, & FLANGEWAYS	TON	4	4		
40600895	CONSTRUCTING TEST STRIP	EACH	1	1		
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	625	625		
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7"	SQ YD	931	931		
42300400	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	SQ YD	283	283		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5"	SQ FT	31029	31029		
42400800	DETECTABLE WARNINGS	SQ FT	2900	2900		
44000100	PAVEMENT REMOVAL	SQ YD	922	922		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	931	931		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	13324	13324		
44000600	SIDEWALK REMOVAL	SQ FT	33929	33929		
44200948	CLASS B PATCHES, TYPE I, 9 INCH	SQ YD	105	105		
44200956	CLASS B PATCHES, TYPE II, 9 INCH	SQ YD	210	210		
44200962	CLASS B PATCHES, TYPE III, 9 INCH	SQ YD	526	526		
44200964	CLASS B PATCHES, TYPE IV, 9 INCH	SQ YD	1262	1262		
56103100	DUCTILE IRON WATER MAIN, 8"	FOOT	9			9
60218400	MANHOLES, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3		
60240200	INLET, TYPE A, (SPECIAL)	EACH	7	7		
60248700	VALVE VAULTS, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	6			6
60250200	CATCH BASINS TO BE ADJUSTED	EACH	43	43		
60250300	CATCH BASINS TO BE ADJUSTED, (SPECIAL)	EACH	5	5		
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	8	8		
60255500	MANHOLES TO BE ADJUSTED	EACH	5	5		
60255600	MANHOLES TO BE ADJUSTED, (SPECIAL)	EACH	34	34		
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	12	12		
60260100	INLETS TO BE ADJUSTED	EACH	17	17		
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	3	3		
60265800	VALVE VAULTS TO BE ADJUSTED, (SPECIAL)	EACH	29	29		
60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	22	22		
60266600	VALVE BOXES TO BE ADJUSTED	EACH	10	10		
60405700	FRAMES AND GRATES, (SPECIAL)	EACH	4	4		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	13324	13324		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL. MO.	6	6		
67100100	MOBILIZATION	L SUM	1	1		

* - SPECIALTY ITEMS

CODE NO	DESCRIPTION	UNIT	PLAN QUANTITY	Fund Type 1000	Fund Type Y031 1F	100% Local Y060 Non-Participating
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
70102680	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
* 70300210	TEMPORARY PAVEMENT MARKING-LETTERS & SYMBOLS	SQ FT	156	156		
* 70300220	TEMPORARY PAVEMENT MARKING-LINE 4"	FOOT	5109	5109		
* 78000100	THERMOPLASTIC PAVEMENT MARKING-LETTERS & SYMBOLS	SQ FT	575	575		
* 78000200	THERMOPLASTIC PAVEMENT MARKING-LINE 4"	FOOT	6497	6497		
* 78000400	THERMOPLASTIC PAVEMENT MARKING-LINE 6"	FOOT	3906	3906		
* 78000500	THERMOPLASTIC PAVEMENT MARKING-LINE 8"	FOOT	348	348		
* 78000600	THERMOPLASTIC PAVEMENT MARKING-LINE 12"	FOOT	2212	2212		
* 78000650	THERMOPLASTIC PAVEMENT MARKING-LINE 24"	FOOT	920	920		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	166	166		
* 78300100	PAVEMENT MARKING REMOVAL	SQ FT	5109	5109		
* 81400115	HANDHOLES TO BE ADJUSTED	EACH	28	28		
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1744	1744		
* 88700200	LIGHT DETECTOR	EACH	2			2
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1
* X0323095	TYPE 1 FRAME, CLOSED LID	EACH	2	2		
* X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	97	97		
X4021000	TEMPORARY ACCESS FOR DRIVEWAYS (PRIVATE ENTRANCE)	EACH	25	25		
X4022000	TEMPORARY ACCESS FOR DRIVEWAYS (COMMERCIAL ENTRANCE)	EACH	43	43		
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50	TON	111	111		
X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70	TON	4573	4573		
X4067100	POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50	TON	1577	1577		
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	1000	1000		
X4409410	BITUMINOUS SURFACE REMOVAL, 2 1/4"	SQ YD	35044	35044		
X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED SHIELD	FOOT	260			260
* X0001490	GATE VALVES, 8"	EACH	3			3
* X0002984	PIPE FITTINGS, (MECHANICAL JOINTS)	POUND	600			600
* X0003321	SANITARY SEWER FOR RISERS	FOOT	3	3		
* X0003678	JUNCTION BOXES TO BE ADJUSTED	EACH	28	28		
* X0005535	SEWER SPOT REPAIRS, 12"	FOOT	35	35		
* X0005536	SEWER SPOT REPAIRS, 15"	FOOT	5	5		
* X0005541	CURED-IN-PLACE PIPE (CIPP), 12"	FOOT	320	320		
* X0005556	SERVICE RESTORATION, COMPLETE	EACH	16	16		
* X0005559	SANITARY SEWER FOR SERVICES	FOOT	5	5		
* X0005565	REMOVE AND RESET BRICK PAVERS	SQ FT	300	300		
* X0005751	MANHOLE REHABILITATION	FOOT	71	71		
* Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	4	4		
Z0075310	TIE BARS, 3/4"	EACH	5330	5330		
Z0076600	TRAINEES	HOUR	500	500		
* 56105600	Inserting Valves 8"	EACH	3			3
* XX006464	DOMESTIC WATER SERVICE BOX TO BE ADJUSTED (SPECIAL)	EACH	35	35		
* XX006465	DOMESTIC WATER METER VAULT TO BE ADJUSTED, (SPECIAL)	EACH	14	14		
* XX006466	STORM SEWER LATERAL CLEANING, 8"	FOOT	400	400		
* XX006467	WYE BRANCHES, 12" X 8"	EACH	1	1		
* X0324102	EMERGENCY VEHICLE SIGNAL CONTROL SYSTEM	EACH	1	1		
* XX006468	CATCH BASINS, TYPE A, 4' DIA., (SPECIAL)	EACH	3	3		

* - SPECIALTY ITEMS

△ - Y080

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 Illinois Professional Design Firm No. 184-000928

PROJECT
CITY OF BERWYN, ILLINOIS
16TH STREET RESURFACING
SECTION NO. 03-000159-00-RS

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

SUMMARY OF QUANTITIES

PROJECT NO. 02260	SCALE NONE	SHEET 3
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005	OF 24
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE	SHEETS

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COMPOSITE PAVEMENT DESIGN

Current ADT = 14000 T = 7.5% CL II Roadway
 Proposed ADT = 14000 T = 7.5% Design Year = : 2006
 $ADT = \frac{14000+14000}{2} = 14000; P = 0.5, S = 0.5, M = 0.5$

FROM FIGURE 37-5B:

$TF = DP \frac{(0.073PV + 53290SU + 237000)}{1,000,000}$

WHERE:

DP = 20; SU = (14000 x 0.07) = 980; MU = 0 (5 ton weight restriction)
 PV = 5420-108-0 = 5312

$TF = 20 \frac{(0.073+13020) + (53290 \times 980) + (237070 \times 0)}{1,000,000}$

$TF = 20 \frac{950.46 + 52224.20 + 0}{1,000,000} = 10.63$

FROM FIGURE 37-5D:

BASIC SLAB THICKNESS	8.250 IN.
ADJUSTMENT FOR POOR SUBGRADE	-0.250 IN.
SLAB THICKNESS ADJUSTED FOR SUPPORT CONDITIONS	8.00 IN.
ADJUSTMENT FOR TIED CURB AND GUTTER	-0.375 IN.
ADJUSTMENT FOR OVERLOADS	0.000 IN.
FINAL SLAB THICKNESS	7.625 IN.

EXISTING PAVEMENT
 EXISTING ASPHALT = 3.5"
 EXISTING CONCRETE BASE 9.0"

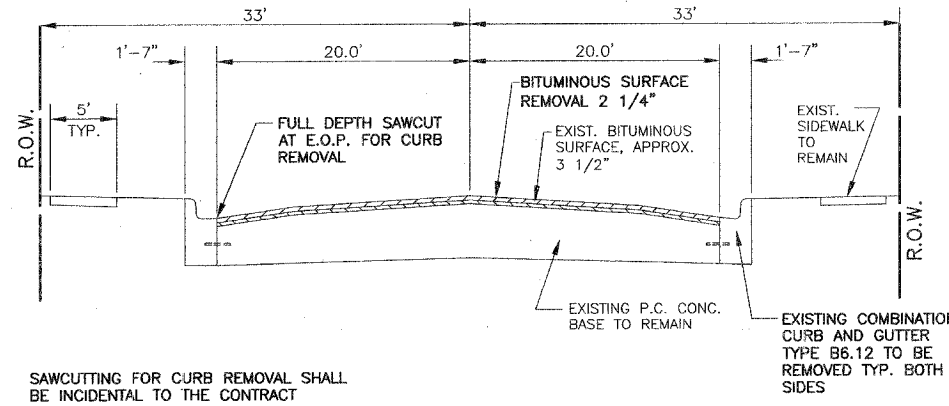
RECOMMEND 2 1/4" BIT SURFACE REMOVAL AND 3/4" LEVELING BINDER & 1 1/2" SURFACE REPLACEMENT

BITUMINOUS MIXTURE REQUIREMENT

ITEM	AC TYPE	VOIDS	RAP %
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE "D", N70	PG 64-22	4% @ 70 GYR	10
POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50	SBS/SBR PG 76-28	2.5% @ 50 GYR	0
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50	PG 64-22	4% @ 50 GYR	15

THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURES IS 112 LBS/SQ YD/IN

TYPICAL CROSS SECTION (16th STREET) EXISTING



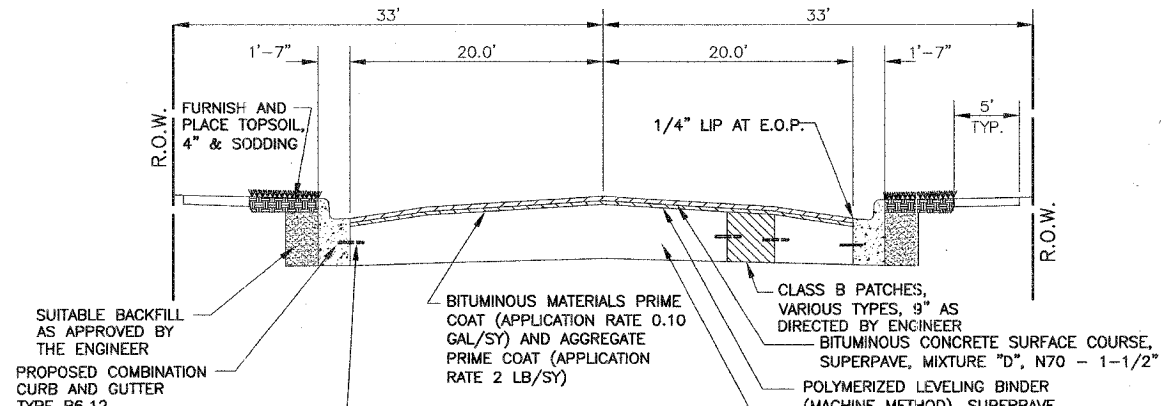
SAWCUTTING FOR CURB REMOVAL SHALL BE INCIDENTAL TO THE CONTRACT

STA. 0+19 TO STA. 28+80
 STA. 30+80 TO STA. 52+59
 STA. 54+59 TO STA. 68+47

TYPICAL CROSS SECTION (16th STREET) PROPOSED

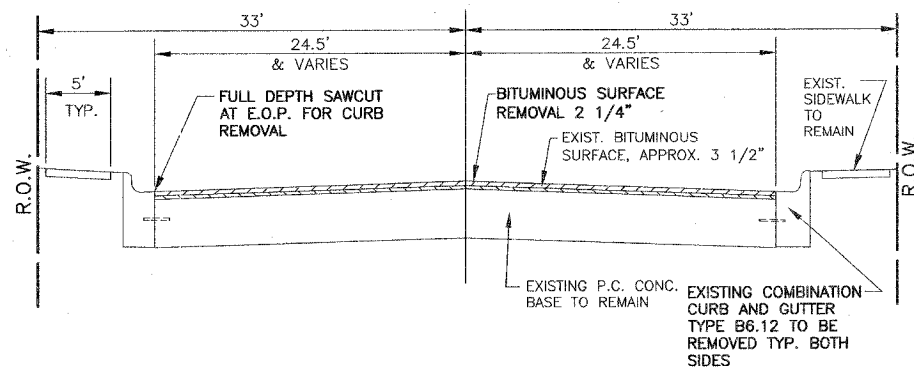
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	4
F. H. A. REG.	ILLINOIS	PROJECT STPM-8003(581)		

CONTRACT NO. 83835



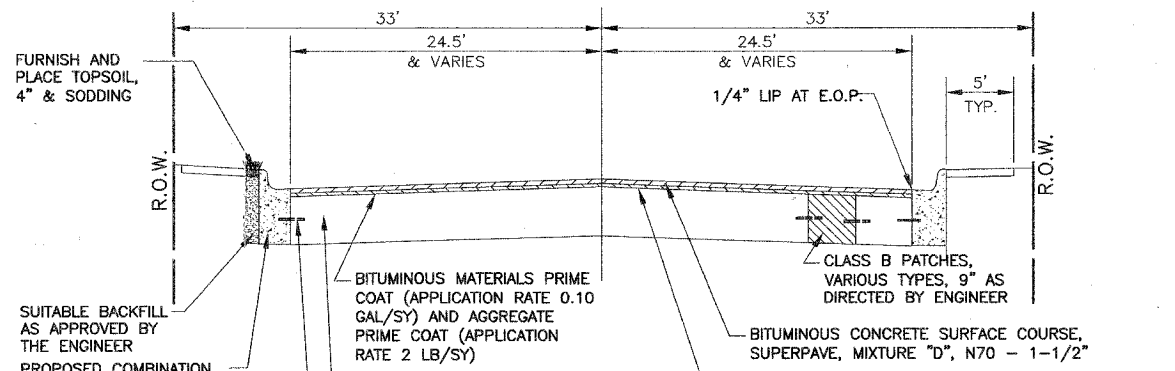
SUITABLE BACKFILL AS APPROVED BY THE ENGINEER
 PROPOSED COMBINATION CURB AND GUTTER TYPE B6.12
 PROPOSED 3/4" EPOXY COATED TIE BARS 18" LONG INSTALLED ON 30" CENTERS GROUTED IN PLACE (TYPICAL)

STA. 0+19 TO STA. 28+80
 STA. 30+80 TO STA. 52+59
 STA. 54+59 TO STA. 68+47



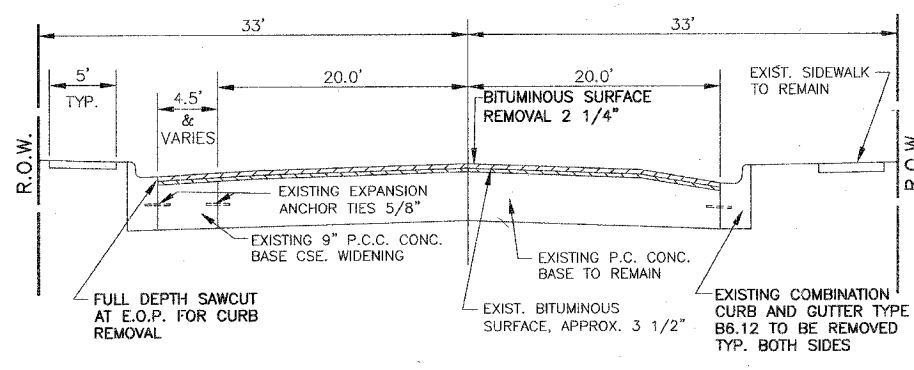
SAWCUTTING FOR CURB REMOVAL SHALL BE INCIDENTAL TO THE CONTRACT

STA. 28+80 TO STA. 30+80



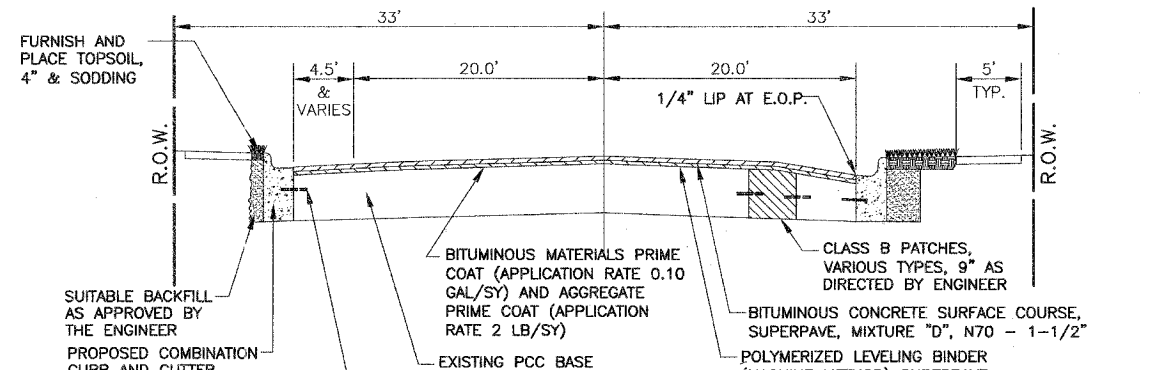
SUITABLE BACKFILL AS APPROVED BY THE ENGINEER
 PROPOSED COMBINATION CURB AND GUTTER TYPE B6.12
 PROPOSED 3/4" EPOXY COATED TIE BARS 18" LONG INSTALLED ON 30" CENTERS GROUTED IN PLACE (TYPICAL)

STA. 28+80 TO STA. 30+80



SAWCUTTING FOR CURB REMOVAL SHALL BE INCIDENTAL TO THE CONTRACT

STA. 52+59 TO STA. 54+59



SUITABLE BACKFILL AS APPROVED BY THE ENGINEER
 PROPOSED COMBINATION CURB AND GUTTER TYPE B6.12
 PROPOSED 3/4" EPOXY COATED TIE BARS 18" LONG INSTALLED ON 30" CENTERS GROUTED IN PLACE (TYPICAL)

STA. 52+59 TO STA. 54+59

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PROJECT
CITY OF BERWYN, ILLINOIS
16TH STREET RESURFACING
SECTION NO. 03-000159-00-RS

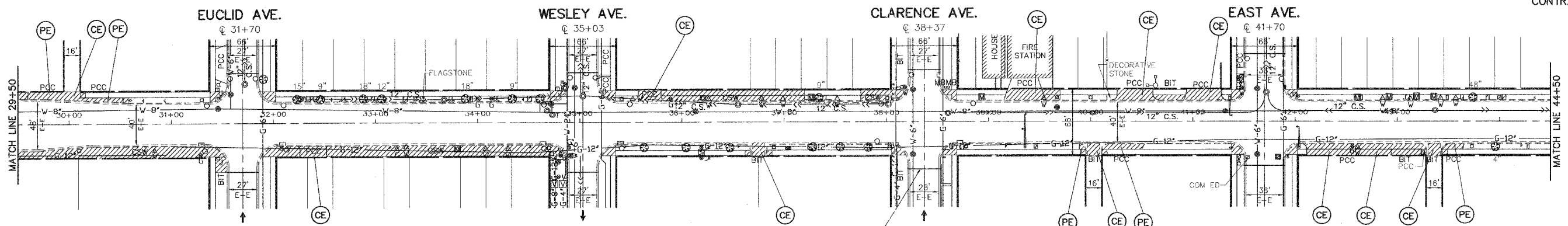
REVISIONS

NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

COMPOSITE PAV'T DESIGN
BIT. MIXTURE REQUIREMENT
TYPICAL CROSS SECTION

PROJECT NO. 02260	SCALE NONE	SHEET 4
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005	OF 24
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE	SHEETS

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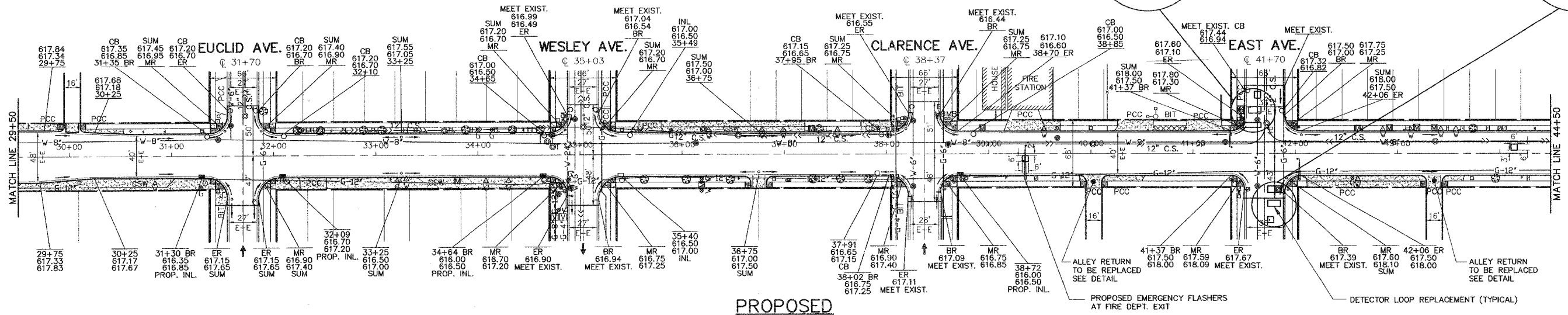
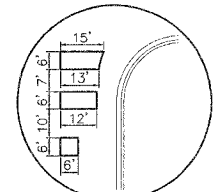
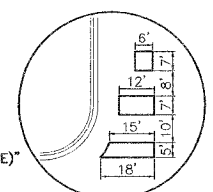


IMPORTANT!
 FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

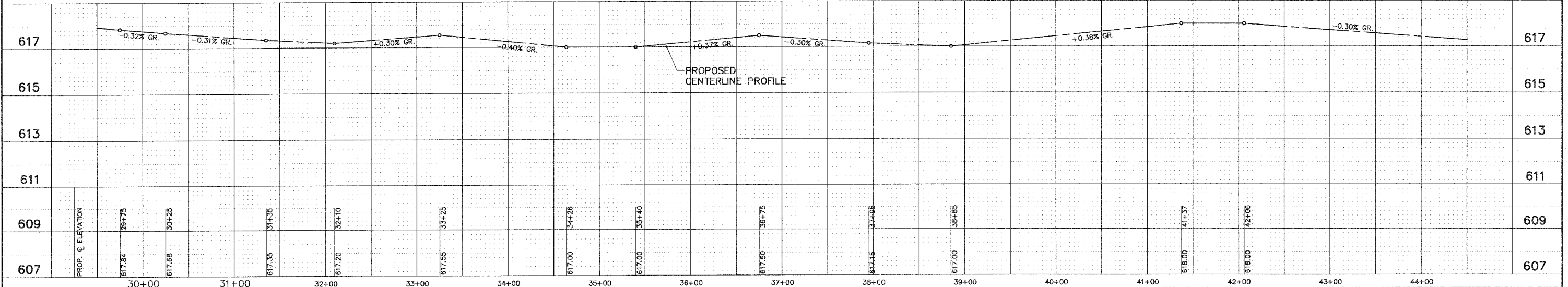
- DENOTES "DRIVEWAY REMOVAL", "SIDEWALK REMOVAL", AND "PAVEMENT REMOVAL" (AS DIRECTED BY THE ENGINEER)
- DENOTES "P.C. CONCRETE DRIVEWAY PAVEMENT, 7 INCH" AND "P.C. CONCRETE SIDEWALK, 5 INCH"
- DENOTES INCIDENTAL BITUMINOUS SURFACE, SUPERPAVE, MIX C, N50 (FOR DRIVEWAYS)
- DENOTES P.C. CONCRETE SIDEWALK, 5", WITH DETECTABLE WARNINGS PER I.D.O.T. STANDARD 424001-03
- DENOTES "COMBINATION CURB AND GUTTER REMOVAL"

AT THE DIRECTION OF THE FEDERAL POSTAL AUTHORITY, MAILBOXES ARE TO BE REMOVED, RELOCATED AND RESET BY THE CONTRACTOR.

- (PE) DENOTES "TEMPORARY ACCESS FOR DRIVEWAYS (PRIVATE ENTRANCE)"
- (CE) DENOTES "TEMPORARY ACCESS FOR DRIVEWAYS (COMMERCIAL ENTRANCE)"



PROPOSED



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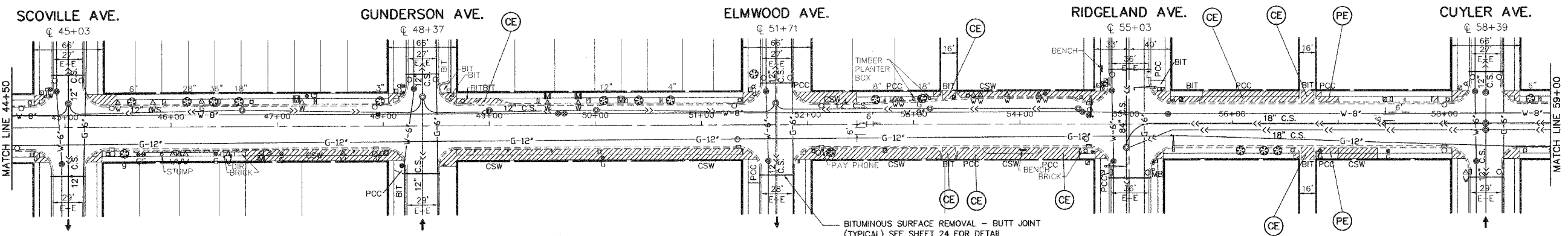
PROJECT
CITY OF BERWYN, ILLINOIS
16TH STREET RESURFACING
SECTION NO. 03-000159-00-RS

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

PAVING PLAN
 16TH STREET
 STA. 29+50 TO STA. 44+50

PROJECT NO. 02260	SCALE H:1"=50'; V:1"=1'	SHEET 7
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005	OF 24
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE	SHEETS

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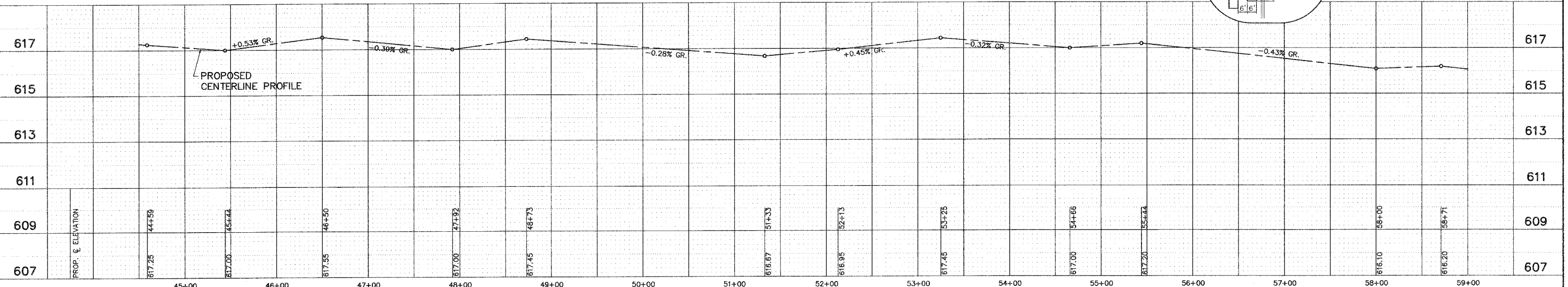
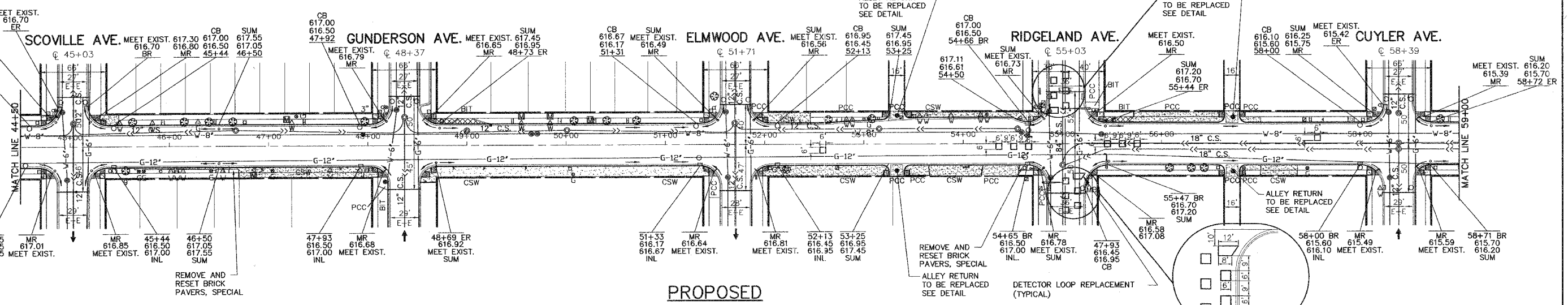
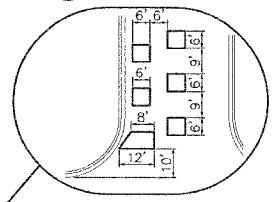


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- DENOTES "DRIVEWAY REMOVAL", "SIDEWALK REMOVAL", AND "PAVEMENT REMOVAL" (AS DIRECTED BY THE ENGINEER)
- DENOTES "P.C. CONCRETE DRIVEWAY PAVEMENT, 7 INCH AND "P.C. CONCRETE SIDEWALK, 5 INCH"
- DENOTES INCIDENTAL BITUMINOUS SURFACE, SUPERPAVE, MIX C, N50 (FOR DRIVEWAYS)
- DENOTES P.C. CONCRETE SIDEWALK, 5", WITH DETECTABLE WARNINGS PER I.D.O.T. STANDARD 424001-03
- DENOTES "COMBINATION CURB AND GUTTER REMOVAL"

AT THE DIRECTION OF THE FEDERAL POSTAL AUTHORITY, MAILBOXES ARE TO BE REMOVED, RELOCATED AND RESET BY THE CONTRACTOR.

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- DENOTES "TEMPORARY ACCESS FOR DRIVEWAYS (COMMERCIAL ENTRANCE)"



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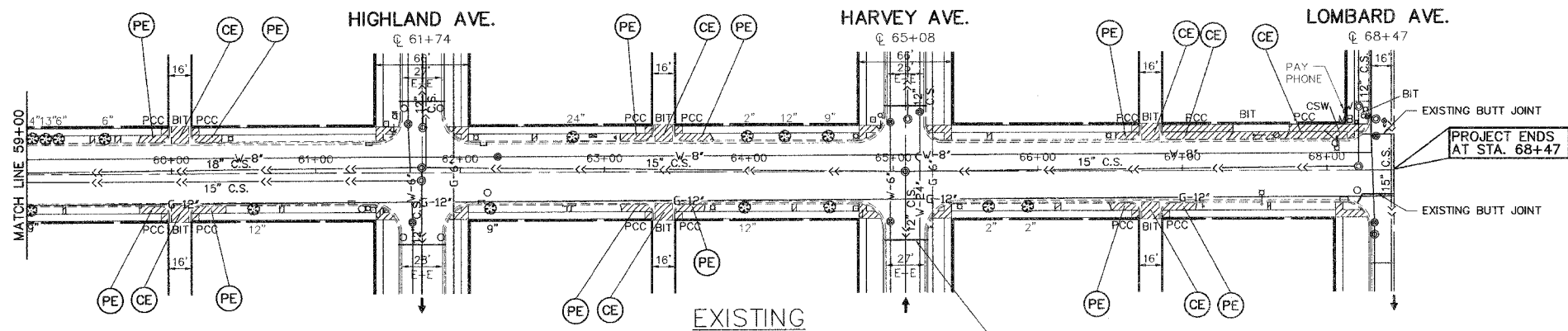
PROJECT
CITY OF BERWYN, ILLINOIS
16TH STREET RESURFACING
SECTION NO. 03-00159-00-RS

REVISIONS		
NO.	BY	DATE
1	THK	11/30/05
2	THK	12/14/05
3	THK	12/16/05

PAVING PLAN
 16TH STREET
 STA. 44+50 TO STA. 59+00

PROJECT NO. 02260	SCALE H:1"=50'; V:1"=1'	SHEET 8
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005	OF 24
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE	SHEETS

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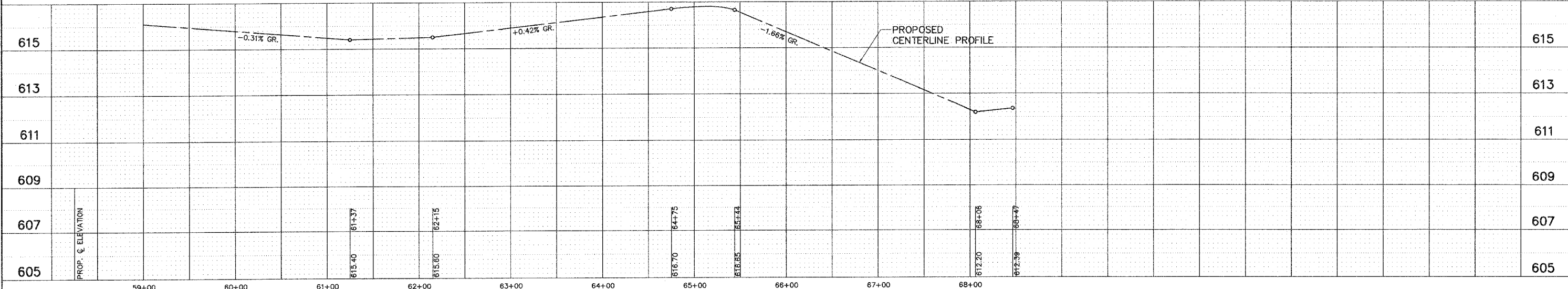
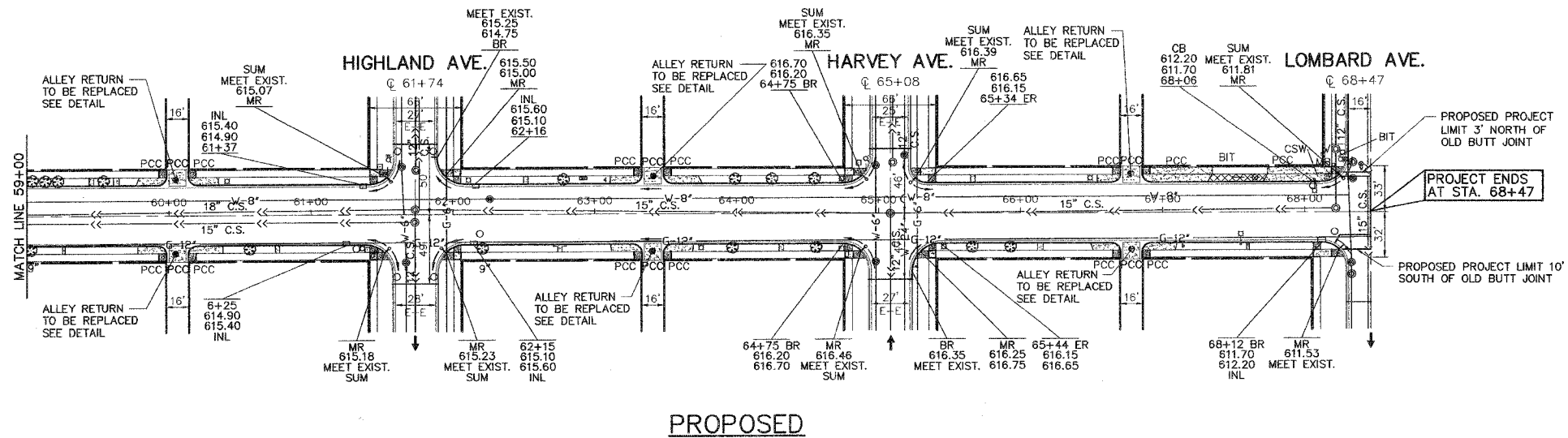


- DENOTES "DRIVEWAY REMOVAL", "SIDEWALK REMOVAL", AND "PAVEMENT REMOVAL" (AS DIRECTED BY THE ENGINEER)
- DENOTES "P.C. CONCRETE DRIVEWAY PAVEMENT, 7 INCH" AND "P.C. CONCRETE SIDEWALK, 5 INCH"
- DENOTES INCIDENTAL BITUMINOUS SURFACE, SUPERPAVE, MIX C, N50 (FOR DRIVEWAYS)
- DENOTES P.C. CONCRETE SIDEWALK, 5", WITH DETECTABLE WARNINGS PER I.D.O.T. STANDARD 424001-03
- DENOTES "COMBINATION CURB AND GUTTER REMOVAL"

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- DENOTES "TEMPORARY ACCESS FOR DRIVEWAYS (COMMERCIAL ENTRANCE)"

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Illinois Professional Design Firm No. 184-000928

PROJECT
CITY OF BERWYN, ILLINOIS
16TH STREET RESURFACING
SECTION NO. 03-00159-00-RS

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

PAVING PLAN
16TH STREET
STA. 59+00 TO STA. 68+47
(LOMBARD AVE.)

PROJECT NO. 02260	SCALE H:1"=50'; V:1"=1'	SHEET 9
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005	OF 24
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE	SHEETS

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SCHEDULE OF STRUCTURES

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	10
F. HW. A. REG.	ILLINOIS	PROJECT STPM-8003(581)	CONTRACT NO. 83835	



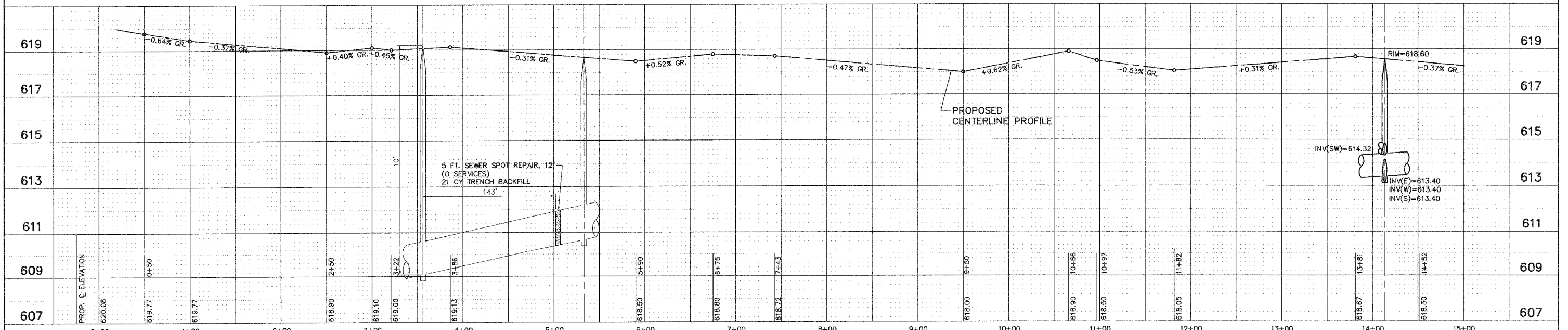
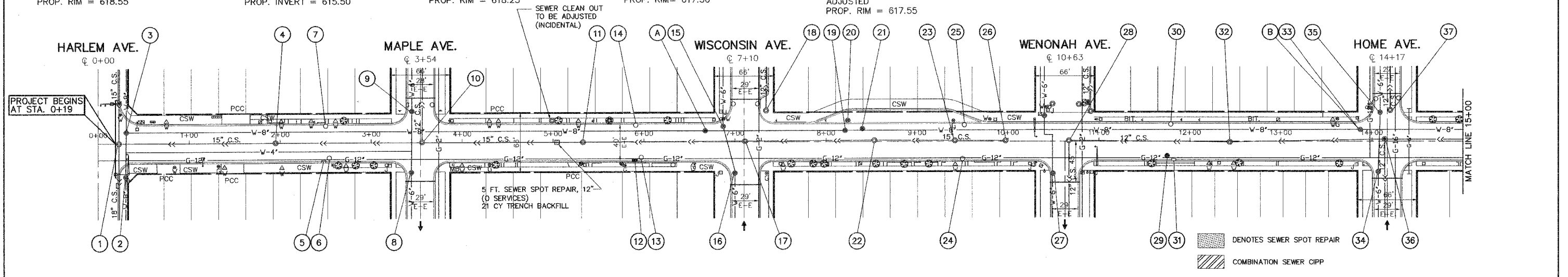
1. STA. 0+22, 0' R MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 620.08
2. STA. 0+31, 37' R VALVE VAULT TO BE ADJUSTED PROP. RIM = 620.10
3. STA. 0+30, 13' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 619.70
4. STA. 1+95, 0' R MANHOLE REHABILITATION AND ADJUSTMENT, SPECIAL PROP. RIM = 619.10 INVERT = 608.90
5. STA. 2+48, 18' R INLET TO BE ADJUSTED PROP. RIM = 618.40
6. STA. 2+54, 16' R CATCH BASIN TO BE ADJUSTED, SPECIAL PROP. RIM = 618.55
7. STA. 2+50, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 618.40
8. STA. 3+44, 33' R VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 618.70
9. STA. 3+44, 35' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 618.60
10. STA. 3+56, 0' R MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 619.07
11. STA. 5+33, 0' R MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 618.67
12. STA. 5+90, 18.5' R INLET, TYPE A (SPECIAL) PROP. RIM = 618.00 PROP. INVERT = 615.50
13. STA. 5+97, 16.5' R CATCH BASIN TO BE ADJUSTED, SPECIAL PROP. RIM = 618.60
14. STA. 5+91, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 618.00
15. STA. 6+87, 17' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 618.20
16. STA. 7+00, 35' R VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 618.40
17. STA. 7+11, 0' R MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 618.78
18. STA. 7+34, 34.5' L MANHOLE TO BE ADJUSTED PROP. RIM = 618.25
19. STA. 8+21, 12.5' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 618.20
20. STA. 8+24, 24' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 618.10
21. STA. 8+40, 14.5' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 618.20
22. STA. 8+53, 0' R MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 618.37
23. STA. 9+41, 0' R MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 618.02
24. STA. 9+50, 18.5' R CATCH BASIN TO BE RECONSTRUCTED PROP. RIM = 617.50
25. STA. 9+50, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 617.50
26. STA. 9+97, 0' R MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 618.38
27. STA. 10+39, 35' R VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 618.00
28. STA. 10+67, 0' R MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 618.90
29. STA. 11+75, 16' R CATCH BASIN, TYPE A, 4' DIA. (SPECIAL) PROP. RIM = 617.60 PROP. INVERT = 614.38
30. STA. 11+79, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 617.55
31. STA. 11+82, 18.5' R INLET TO BE ADJUSTED PROP. RIM = 617.55
32. STA. 12+43, 0' R MANHOLE REHABILITATION AND ADJUSTMENT, SPECIAL INVERT = 613.12 PROP. RIM = 618.22
33. STA. 13+87, 13' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM =
34. STA. 14+07, 35' R VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 618.30
35. STA. 14+09, 32' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 617.60
36. STA. 14+14, 2' L MANHOLE, TYPE A, 4' DIA., TYPE 1 FRAME AND CLOSED LID PROP. INVERT = 614.32 (SW) PROP. INVERT = 613.40 (E-W) PROP. INVERT = 613.40 (S) PROP. RIM = 618.60
37. STA. 14+20, 35' L MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 617.60

WATER MAIN SCHEDULE

- (A) 1-8" INSERTION VALVE
1-VALVE VAULT, 4' DIA.
1-TYPE 1 FRAME WITH "WATER" STAMPED ON CLOSED LID
- (B) 1-8" GATE VALVE
1-8" SLEEVE
3"-8" D.I.P.
1-VALVE VAULT, 4' DIA.

ALL BUFFALO BOXES ON THIS PROJECT LOCATED BETWEEN THE CURB AND THE SIDEWALK ARE TO BE ADJUSTED TO GRADE. BROKEN OR OTHERWISE UNUSABLE BUFFALO BOXES SHALL BE REPAIRED AND BE PAID FOR AS DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED, SPECIAL.

IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.



 Frank Novotny & Associates, Inc. Civil Engineers/Municipal Consultants 825 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 887-8640 • Fax: (630) 887-0132 Illinois Professional Design Firm No. 184-000928	PROJECT CITY OF BERWYN, ILLINOIS 16TH STREET RESURFACING SECTION NO. 03-000159-00-RS	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>THK</td> <td>11/30/05</td> <td>PER IDOT DIST. 1 B.L.R. COMMENTS</td> </tr> <tr> <td>2</td> <td>THK</td> <td>12/14/05</td> <td>PER IDOT DIST. 1 B.L.R. COMMENTS</td> </tr> <tr> <td>3</td> <td>THK</td> <td>12/16/05</td> <td>PER IDOT DIST. 1 B.L.R. COMMENTS</td> </tr> </tbody> </table>	NO.	BY	DATE	DESCRIPTION	1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS	2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS	3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS	DRAINAGE PLAN 16TH STREET STA. 0+19 TO STA. 15+00 (HARLEM AVE.)	PROJECT NO. 02260 DRAWN/DESIGNED JEP-RAW/THK CHECKED/APPROVED JEP	SCALE H:1"=50'; V:1"=1' DATE OCT., 2005 FIELD BOOK NO. FILE	SHEET 10 OF 24 SHEETS
	NO.	BY	DATE	DESCRIPTION																		
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS																			
2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS																			
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS																			
PROJECT BEGINS AT STA. 0+19																						

M:\Berwyn\02260\02260_SHT_03-00159-00-RS\Drawings\15-DrainPlan-16-14-DrainPlan-15-DrainPlan-15-DrainPlan-15-DrainPlan-15-DrainPlan.dwg, 12/20/2005 11:18:57 AM

SCHEDULE OF STRUCTURES

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	11
F. HW. A. REG.	ILLINOIS	PROJECT STPM-8003(581)		

CONTRACT NO. 83835

- | | | | | | |
|--|--|--|--|---|---|
| 38. STA. 15+93, 2' L MANHOLE TO BE RECONSTRUCTED
PROP. RIM = 617.95 | 46. STA. 18+10, 0' L MANHOLE TO BE ADJUSTED, SPECIAL
PROP. RIM = 617.42 | 54. STA. 21+29, 37.5' L MANHOLE REHABILITATION AND ADJUSTMENT, SPECIAL
PROP. RIM = 617.85 | 62. STA. 25+21, 25' R CATCH BASIN TO BE ADJUSTED
PROP. RIM = 618.15 | 70. STA. 28+12, 16' L CATCH BASIN, TYPE A, 4' DIA. (SPECIAL)
PROP. INVERT = 612.75
PROP. RIM = 618.10 | 76. STA. 28+20, 4.3' R INLET TO BE ADJUSTED
PROP. RIM = 617.65 |
| 39. STA. 17+19, 25' R CATCH BASIN TO BE ADJUSTED
PROP. RIM = 617.00 | 47. STA. 18+20, 18.5' R INLET, TYPE A (SPECIAL)
PROP. INVERT = 614.15
PROP. RIM = 616.95 | 55. STA. 21+66, 25' R CATCH BASIN TO BE RECONSTRUCTED
PROP. RIM = 617.89 | 63. STA. 25+25, 18.5' R INLET TO BE ADJUSTED
PROP. RIM = 617.65 | 71. STA. 28+20, 45.5' L INLET TO BE ADJUSTED
PROP. RIM = 617.69 | 77. STA. 28+55, 45' L INLET TO BE ADJUSTED
PROP. RIM = 617.65 |
| 40. STA. 17+23, 18.5' R INLET, TYPE A (SPECIAL)
PROP. INVERT = 615.30
PROP. RIM = 617.00 | 48. STA. 18+24, 25' R CATCH BASIN TO BE ADJUSTED
PROP. RIM = 617.45 | 56. STA. 21+70, 18.5' R INLET TO BE ADJUSTED
PROP. RIM = 617.39 | 64. STA. 25+25, 18.5' L CATCH BASIN TO BE ADJUSTED
PROP. RIM = 617.65 | 72. STA. 28+19, 12.5' L VALVE VAULT TO BE RECONSTRUCTED
PROP. RIM = 617.80 | 78. STA. 28+61, 10' L CATCH BASIN TO BE RECONSTRUCTED
PROP. RIM = 617.90 |
| 41. STA. 17+27, 18.5' L CATCH BASIN TO BE ADJUSTED
PROP. RIM = 617.50 | 49. STA. 18+21, 18.5' L CATCH BASIN TO BE ADJUSTED
PROP. RIM = 616.95 | 57. STA. 21+70, 18.5' L CATCH BASIN TO BE ADJUSTED
PROP. RIM = 617.45 | 65. STA. 26+85, 25' R MANHOLE TO BE ADJUSTED
PROP. RIM = 617.95 | 73. STA. 28+25, 34' L VALVE VAULT TO BE RECONSTRUCTED
PROP. RIM = 617.80 | 79. STA. 28+62, 24' R CATCH BASIN, TYPE A, 4' DIA. (SPECIAL)
PROP. INVERT = 612.00
PROP. RIM = 617.55 |
| 42. STA. 17+64, 35.5' R VALVE VAULT TO BE ADJUSTED, SPECIAL
PROP. RIM = 617.40 | 50. STA. 19+24, 1' L MANHOLE TO BE ADJUSTED, SPECIAL
PROP. RIM = 617.73 | 58. STA. 24+62, 35' R VALVE VAULT TO BE RECONSTRUCTED
PROP. RIM = 618.80 | 66. STA. 27+74, 25' R MANHOLE TO BE ADJUSTED
PROP. RIM = 618.25 | 74. STA. 28+24, 39' R VALVE VAULT TO BE RECONSTRUCTED
PROP. RIM = 618.20 | 80. STA. 28+55, 39.5' R INLET TO BE ADJUSTED
PROP. RIM = 617.61 |
| 43. STA. 17+64, 33' L VALVE VAULT TO BE ADJUSTED, SPECIAL
PROP. RIM = 617.48 | 51. STA. 21+17, 32' R VALVE VAULT TO BE ADJUSTED, SPECIAL
PROP. RIM = | 59. STA. 24+81, 39' R MANHOLE TO BE ADJUSTED, SPECIAL
PROP. RIM = 618.20 | 67. STA. 27+98, 12.5' L VALVE VAULT, TYPE A, 4' DIA.
PROP. RIM = 617.80 | 75. STA. 28+34, 20' R MANHOLE TO BE RECONSTRUCTED
PROP. RIM = 617.90 | |
| 44. STA. 17+71, 0' L MANHOLE TO BE ADJUSTED, SPECIAL
PROP. RIM = 617.50 | 52. STA. 21+24, 0' R MANHOLE TO BE ADJUSTED, SPECIAL
PROP. RIM = 618.10 | 60. STA. 24+72, 32' L VALVE VAULT TO BE ADJUSTED, SPECIAL
PROP. RIM = 618.25 | 68. STA. 28+00, 18.5' L CATCH BASIN TO BE ADJUSTED
PROP. RIM = 617.65 | | |
| 45. STA. 17+73, 37' L MANHOLE TO BE ADJUSTED, SPECIAL
PROP. RIM = 617.20 | 53. STA. 21+16, 34' L VALVE VAULT TO BE ADJUSTED, SPECIAL
PROP. RIM = 617.75 | 61. STA. 24+83, 37.5' L MANHOLE TO BE ADJUSTED, SPECIAL
PROP. RIM = 618.30 | 69. STA. 28+00, 18.5' R CATCH BASIN TO BE ADJUSTED
PROP. RIM = 617.65 | | |



WATER MAIN SCHEDULE

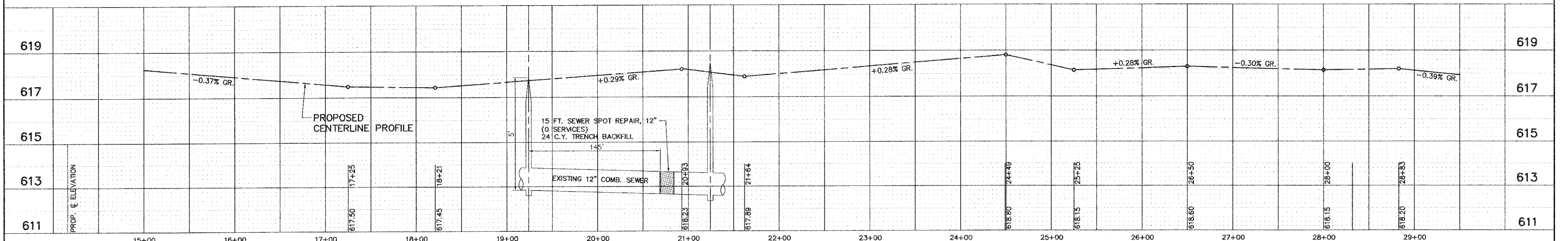
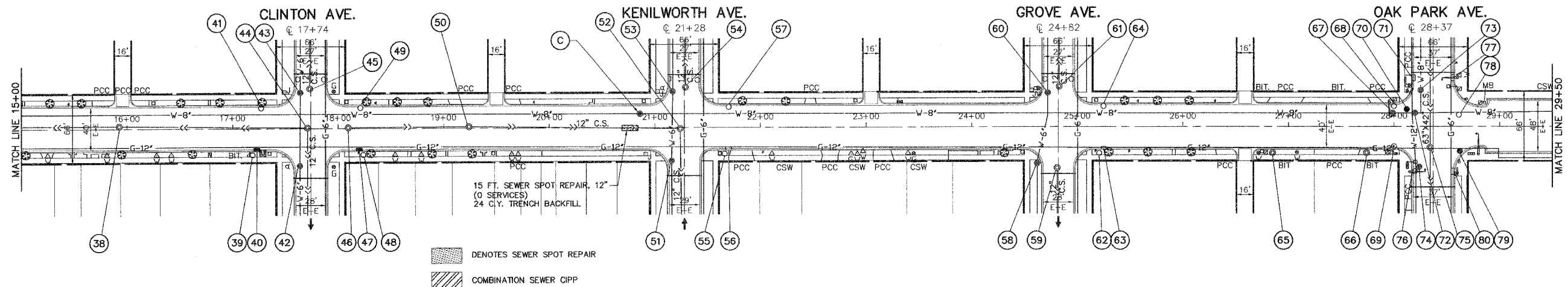
- Ⓢ 1-8" INSERTION VALVE
- 1-VALVE VAULT, 4' DIA.
- 1-TYPE 1 FRAME WITH "WATER" STAMPED ON CLOSED LID

IMPORTANT!

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ALL BUFFALO BOXES ON THIS PROJECT LOCATED BETWEEN THE CURB AND THE SIDEWALK ARE TO BE ADJUSTED TO GRADE. BROKEN OR OTHERWISE UNUSABLE BUFFALO BOXES SHALL BE REPAIRED AND BE PAID FOR AS DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED, SPECIAL.

ALL SEWER LATERALS TO BE CLEANED IN OAK PARK AVE.



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PROJECT
CITY OF BERWYN, ILLINOIS
16TH STREET RESURFACING
SECTION NO. 03-000159-00-RS

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

DRAINAGE PLAN
 16TH STREET
 STA. 15+00 TO STA. 29+50

PROJECT NO. 02260	SCALE H: 1"=50'; V: 1"=1'	SHEET 11 OF 24 SHEETS
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005	
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE	

M:\Berwyn\2002\02260 - 16th St - C.A.P.\02260_SHT_05-03_PavePlan-10-14_DrainPlan-5-01-05.dwg, 12/20/2005 11:20:09 AM

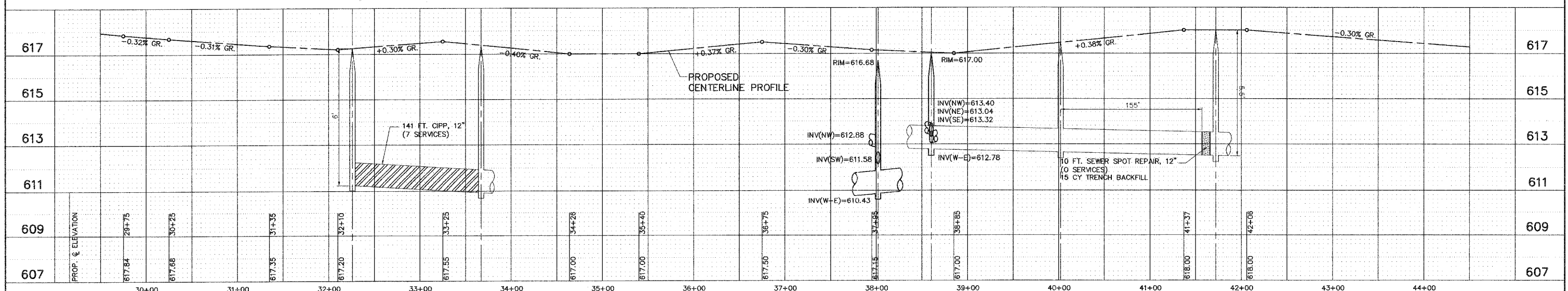
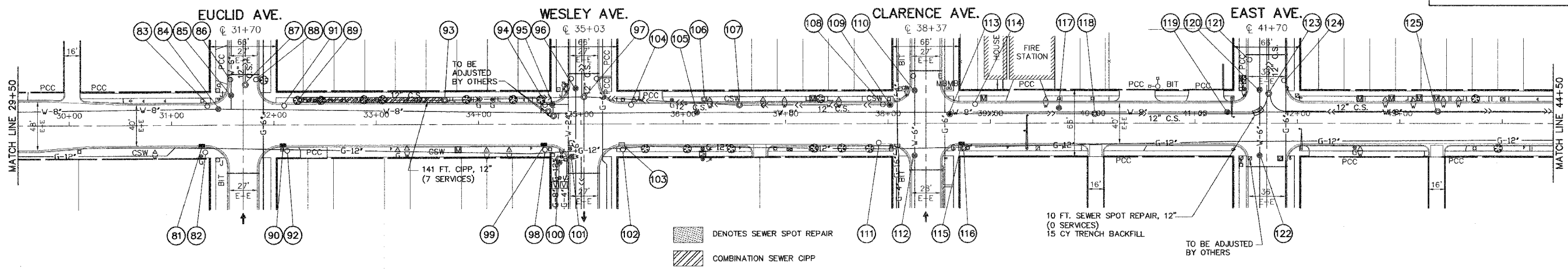
SCHEDULE OF STRUCTURES

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	12
F. HW. A. REG.	ILLINOIS	PROJECT STPM-8003(581)	CONTRACT NO. 83835	

- | | | | | | | |
|---|---|--|--|---|---|--|
| <p>81. STA. 31+29, 18.5' R INLET, TYPE A (SPECIAL) PROP. INVERT = 614.59 PROP. RIM = 616.85</p> <p>82. STA. 31+33, 26' R CATCH BASIN TO BE RECONSTRUCTED PROP. RIM = 617.40</p> <p>83. STA. 31+35, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.85</p> <p>84. STA. 31+45, 16' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 617.00</p> <p>85. STA. 31+58, 29' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 616.95</p> <p>86. STA. 31+57, 44.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.70</p> <p>87. STA. 31+72, 39' L MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 616.90</p> | <p>88. STA. 31+82, 44.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.70</p> <p>89. STA. 32+26, 24.5' L MANHOLE TO BE ADJUSTED PROP. RIM = 617.35</p> <p>90. STA. 32+09, 18.5' R INLET, TYPE A (SPECIAL) PROP. INVERT = 614.59 PROP. RIM = 616.85</p> <p>91. STA. 32+10, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.70</p> <p>92. STA. 32+13, 25' R CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.80</p> <p>93. STA. 33+67, 24' L MANHOLE TO BE ADJUSTED PROP. RIM = 617.35</p> <p>94. STA. 34+65, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.50</p> <p>95. STA. 34+73, 18.5' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 616.20</p> | <p>96. STA. 34+95, 35' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM =</p> <p>97. STA. 35+03, 27' L MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 616.90</p> <p>98. STA. 34+65, 25' R CATCH BASIN TO BE ADJUSTED PROP. RIM = 617.10</p> <p>99. STA. 34+64, 18.5' R INLET, TYPE A (SPECIAL) PROP. INVERT = 614.90 PROP. RIM = 616.50</p> <p>100. STA. 34+79, 38' R VALVE VAULT TO BE ADJUSTED PROP. RIM = 617.50</p> <p>101. STA. 34+91, 32' R VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 617.00</p> <p>102. STA. 35+41, 25' R CATCH BASIN TO BE ADJUSTED PROP. RIM = 617.10</p> <p>103. STA. 35+40, 20' R INLET TO BE ADJUSTED PROP. RIM = 616.50</p> | <p>104. STA. 35+49, 19' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.50</p> <p>105. STA. 36+13, 11' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 616.90</p> <p>106. STA. 36+21, 24' L MANHOLE TO BE ADJUSTED PROP. RIM = 617.35</p> <p>107. STA. 36+55, 18' L MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 617.20</p> <p>108. STA. 37+95, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. FRAME AND GRATE (SPECIAL) PROP. RIM = 616.65</p> <p>109. STA. 38+02, 18' L MANHOLE, TYPE A, 4' DIA., TYPE 1 FRAME AND CLOSED LID PROP. INVERT (W-E) = 610.43 PROP. INVERT (SW) = 611.58 PROP. INVERT (NW) = 612.88 PROP. RIM = 616.68</p> | <p>110. STA. 38+26, 32.5' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 616.80</p> <p>111. STA. 37+91, 18.5' R CATCH BASIN TO BE RECONSTRUCTED PROP. FRAME AND GRATE (SPECIAL) PROP. RIM = 616.65</p> <p>112. STA. 38+26, 31.5' R VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 617.10</p> <p>113. STA. 38+60, 9' L MANHOLE, TYPE A, 4' DIA., TYPE 1 FRAME AND CLOSED LID PROP. INVERT (SE) = 613.32 PROP. INVERT (NE) = 613.04 PROP. INVERT (NW) = 613.40 PROP. INVERT (W-E) = 612.78 PROP. RIM = 617.00</p> <p>114. STA. 38+85, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.50</p> | <p>115. STA. 38+72, 18.5' R INLET, TYPE A (SPECIAL) PROP. INVERT = 614.50 PROP. RIM = 616.50</p> <p>116. STA. 38+74, 24.5' R CATCH BASIN TO BE ADJUSTED PROP. RIM = 617.10</p> <p>117. STA. 39+67, 15' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 617.10</p> <p>118. STA. 40+02, 9' L MANHOLE TO BE RECONSTRUCTED PROP. RIM = 617.35</p> <p>119. STA. 41+31, 11' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 617.60</p> <p>120. STA. 41+63, 33' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 617.30</p> <p>121. STA. 41+53, 62' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.94</p> | <p>122. STA. 41+63, 32' R VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 617.75</p> <p>123. STA. 41+72, 29' L MANHOLE TO BE RECONSTRUCTED PROP. RIM = 617.30</p> <p>124. STA. 41+87, 42' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.82</p> <p>125. STA. 43+37, 12' L MANHOLE TO BE RECONSTRUCTED PROP. RIM = 617.35</p> |
|---|---|--|--|---|---|--|

ALL BUFFALO BOXES ON THIS PROJECT LOCATED BETWEEN THE CURB AND THE SIDEWALK ARE TO BE ADJUSTED TO GRADE. BROKEN OR OTHERWISE UNUSABLE BUFFALO BOXES SHALL BE REPAIRED AND BE PAID FOR AS DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED, SPECIAL.

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 Illinois Professional Design Firm No. 184-000928

PROJECT: CITY OF BERWYN, ILLINOIS
 16TH STREET RESURFACING
 SECTION NO. 03-000159-00-RS

REVISIONS		
NO.	BY	DATE
1	THK	11/30/05
2	THK	12/14/05
3	THK	12/16/05

DRAINAGE PLAN
 16TH STREET
 STA. 29+50 TO STA. 44+50

PROJECT NO. 02260	SCALE H:1"=50'; V:1"=1'	SHEET 12
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005	OF 24
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE	SHEETS

M:\Berwyn\2002\02260 - 16th St - L.A.P\02260_SHT_05-09_PavePlan-10-14_DrainPlan-17-18_18_Strip.dwg, 12/30/2005 11:03:37 PM

SCHEDULE OF STRUCTURES

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	13
F. HW. A. REC.	ILLINOIS	PROJECT STPM-8003(S81)	CONTRACT NO. 83835	

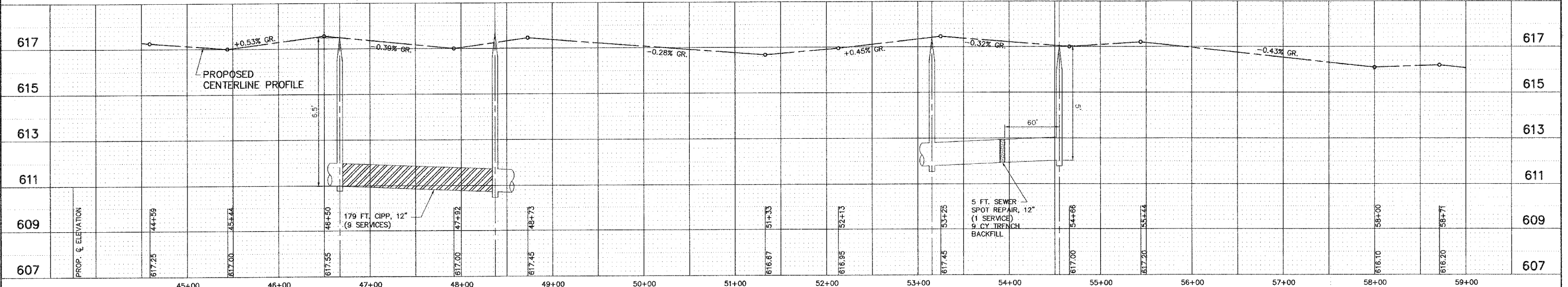
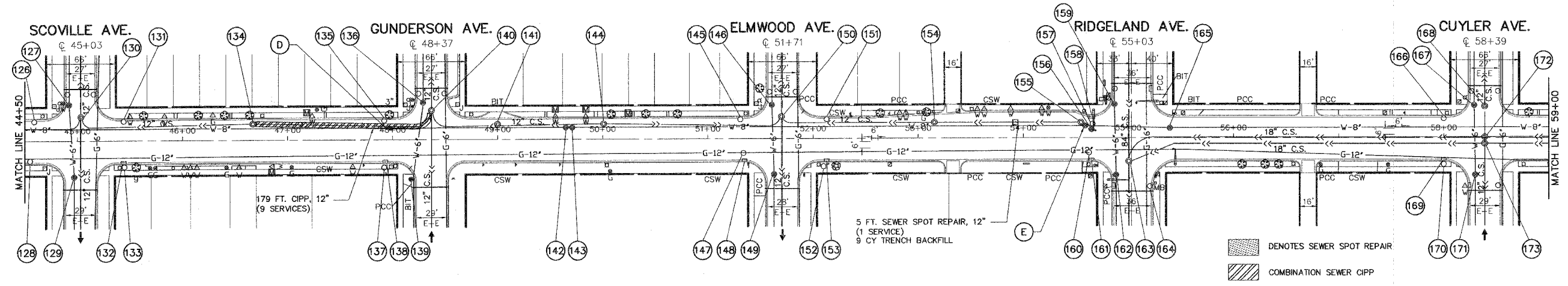


- 126. STA. 44+59, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.75
- 127. STA. 44+92, 33' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 616.80
- 128. STA. 44+55, 18.5 R CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.75
- 129. STA. 44+97, 34' R VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 617.00
- 130. STA. 45+03, 23.5' L MANHOLE TO BE RECONSTRUCTED PROP. RIM = 617.10
- 131. STA. 45+44, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.50
- 132. STA. 45+44, 18.5' R INLET TO BE ADJUSTED PROP. RIM = 616.50
- 133. STA. 45+44, 24.5' R CATCH BASIN TO BE ADJUSTED PROP. RIM = 617.10
- 134. STA. 46+67, 16' L MANHOLE TO BE RECONSTRUCTED PROP. RIM = 617.10
- 135. STA. 47+92, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.50
- 136. STA. 48+29, 36' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 616.80
- 137. STA. 47+92, 25.5' R CATCH BASIN TO BE ADJUSTED PROP. RIM = 617.10
- 138. STA. 47+93, 18.5' R INLET TO BE ADJUSTED PROP. RIM = 616.50
- 139. STA. 48+17, 37' R VALVE VAULT TO BE ADJUSTED PROP. RIM = 617.40
- 140. STA. 48+37, 28.5' L MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 617.00
- 141. STA. 48+94, 11.5' L MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 617.00
- 142. STA. 49+68, 11.5' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 616.70
- 143. STA. 49+74, 11.5' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 616.70
- 144. STA. 50+00, 15' L MANHOLE TO BE RECONSTRUCTED PROP. RIM = 616.65
- 145. STA. 51+31, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.17
- 146. STA. 51+61, 32.5' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 616.50
- 147. STA. 51+34, 13.5' CATCH BASIN TO BE ADJUSTED, SPECIAL PROP. RIM = 616.30
- 148. STA. 51+35, 18.5' R INLET TO BE ADJUSTED PROP. RIM = 616.17
- 149. STA. 51+63, 33' R VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 616.90
- 150. STA. 51+70, 21.5' L MANHOLE TO BE RECONSTRUCTED PROP. RIM = 616.80
- 151. STA. 52+13, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.45
- 152. STA. 52+10, 26' R CATCH BASIN TO BE ADJUSTED PROP. RIM = 617.05
- 153. STA. 52+13, 18.5' R INLET TO BE ADJUSTED PROP. RIM = 616.45
- 154. STA. 53+15, 15.5' L MANHOLE TO BE RECONSTRUCTED PROP. RIM = 617.10
- 155. STA. 54+55, 15' L MANHOLE TO BE RECONSTRUCTED PROP. RIM = 616.65
- 156. STA. 54+65, 8.5' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 616.70
- 157. STA. 54+66, 14' L CATCH BASIN TO BE RECONSTRUCTED PROP. TYPE 1 FRAME, CLOSED LID PROP. RIM = 616.60
- 158. STA. 54+66, 18.5' L INLET TO BE ADJUSTED PROP. RIM = 616.50
- 159. STA. 54+87, 32.5' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 616.90
- 160. STA. 54+62, 13.5' R CATCH BASIN TO BE RECONSTRUCTED PROP. RIM = 616.75
- 161. STA. 54+65, 18.5' R INLET TO BE ADJUSTED PROP. RIM = 616.50
- 162. STA. 54+88, 34.5' R VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 616.85
- 163. STA. 55+00, 22' R MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 616.95
- 164. STA. 55+20, 45' R CATCH BASIN TO BE RECONSTRUCTED PROP. RIM = 616.45
- 165. STA. 55+39, 10' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 616.90
- 166. STA. 58+00, 18.5' L CATCH BASIN TO BE ADJUSTED PROP. RIM = 615.60
- 167. STA. 58+29, 31.5' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 615.50
- 168. STA. 58+39, 30.5' L MANHOLE REHABILITATION AND ADJUSTMENT, SPECIAL INVERT = 608.40 PROP. RIM = 615.60
- 169. STA. 58+00, 18.5' R INLET TO BE ADJUSTED PROP. RIM = 615.60
- 170. STA. 58+00, 25' R CATCH BASIN TO BE ADJUSTED PROP. RIM = 616.20
- 171. STA. 58+30, 34.5' R VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 615.70
- 172. STA. 58+39, 0' R MANHOLE TO BE LINED AND ADJUSTED, SPECIAL PROP. TYPE 1 FRAME, CLOSED LID INVERT = 603.35 PROP. RIM = 616.15
- 173. STA. 58+39, 6' R MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 616.15

- WATER MAIN SCHEDULE**
- (D) 1-8" INSERTION VALVE
1-VALVE VAULT, 4' DIA.
1-TYPE 1 FRAME WITH "WATER" STAMPED ON CLOSED LID
 - (E) 1-8" GATE VALVE
1-VALVE VAULT, 4' DIA.
1-8" SLEEVE
3'-8" D.I.P.
1-TYPE 1 FRAME WITH "WATER" STAMPED ON CLOSED LID

ALL BUFFALO BOXES ON THIS PROJECT LOCATED BETWEEN THE CURB AND THE SIDEWALK ARE TO BE ADJUSTED TO GRADE. BROKEN OR OTHERWISE UNUSABLE BUFFALO BOXES SHALL BE REPAIRED AND BE PAID FOR AS DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED, SPECIAL.

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Illinois Professional Design Firm No. 194-000928

PROJECT
CITY OF BERWYN, ILLINOIS
16TH STREET RESURFACING
SECTION NO. 03-00159-00-RS

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

DRAINAGE PLAN
16TH STREET
STA. 44+50 TO STA. 59+00

PROJECT NO. 02260	SCALE H:1"=50'; V:1"=1'	SHEET 13
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005	OF 24
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE	SHEETS

I:\Projects\2002\02260_SIT_03-00159-00-RS\Drawings\16_18_Strip.dwg, 12/20/2005 11:44:44 PM

SCHEDULE OF STRUCTURES

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	14
F. HW. A. REG.	ILLINOIS	PROJECT STPM-8003(581)	CONTRACT NO. 83835	

- 175. STA. 61+37, 18.5' L INLET TO BE ADJUSTED PROP. RIM = 614.90
- 176. STA. 61+74, 2' L MANHOLE REHABILITATION AND ADJUSTMENT, SPECIAL INVERT = 603.23 PROP. RIM = 615.43
- 177. STA. 61+64, 34' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 615.20
- 178. STA. 61+25, 18.5' R INLET TO BE ADJUSTED PROP. RIM = 614.90
- 179. STA. 61+32, 24' R CATCH BASIN TO BE ADJUSTED PROP. RIM = 615.50
- 180. STA. 61+74, 5' R MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 615.43
- 181. STA. 61+67, 34' R VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 615.30
- 182. STA. 61+74, 31.5' L MANHOLE REHABILITATION AND ADJUSTMENT, SPECIAL INVERT = 608.50 PROP. RIM = 615.30
- 183. STA. 62+17, 18.5' L INLET TO BE ADJUSTED PROP. RIM = 615.10
- 184. STA. 62+14, 18.5' R INLET TO BE ADJUSTED PROP. RIM = 615.10
- 185. STA. 62+19, 14' R CATCH BASIN TO BE RECONSTRUCTED PROP. RIM = 615.20
- 186. STA. 64+98, 34' L VALVE VAULT TO BE RECONSTRUCTED PROP. RIM = 616.40
- 187. STA. 65+10, 36' L MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 616.55
- 188. STA. 65+08, 0' R MANHOLE TO BE ADJUSTED, SPECIAL PROP. RIM = 616.67
- 189. STA. 64+98, 34' R VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 616.60
- 190. STA. 65+18, 41' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 616.40
- 191. STA. 68+06, 18.5' L CATCH BASIN TO BE RECONSTRUCTED PROP. RIM = 611.70
- 192. STA. 68+34, 23.5' L VALVE VAULT TO BE ADJUSTED, SPECIAL PROP. RIM = 611.90
- 193. STA. 68+12, 18.5' R INLET TO BE ADJUSTED PROP. RIM = 611.70
- 194. STA. 68+20, 14' R CATCH BASIN TO BE ADJUSTED, SPECIAL PROP. RIM = 611.85
- 195. STA. 68+22, 2.5' L MANHOLE REHABILITATION AND ADJUSTMENT, SPECIAL INVERT = 604.40 PROP. RIM = 612.20

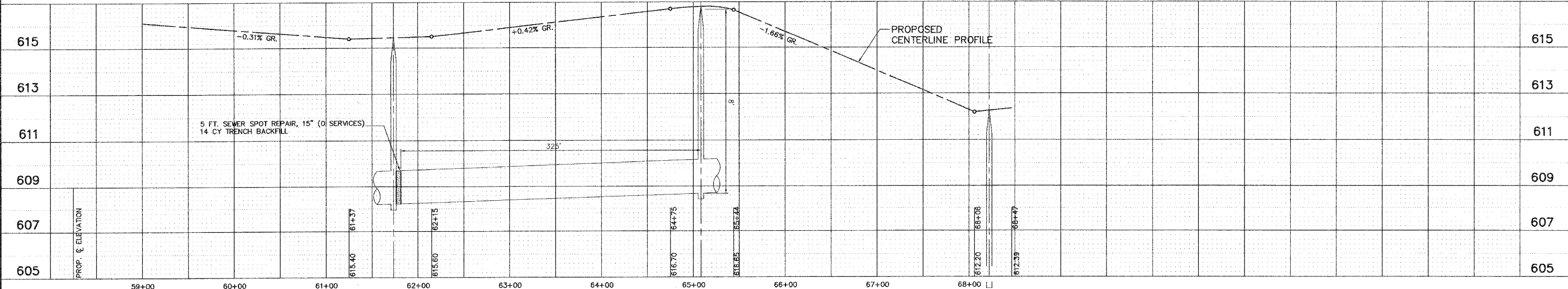
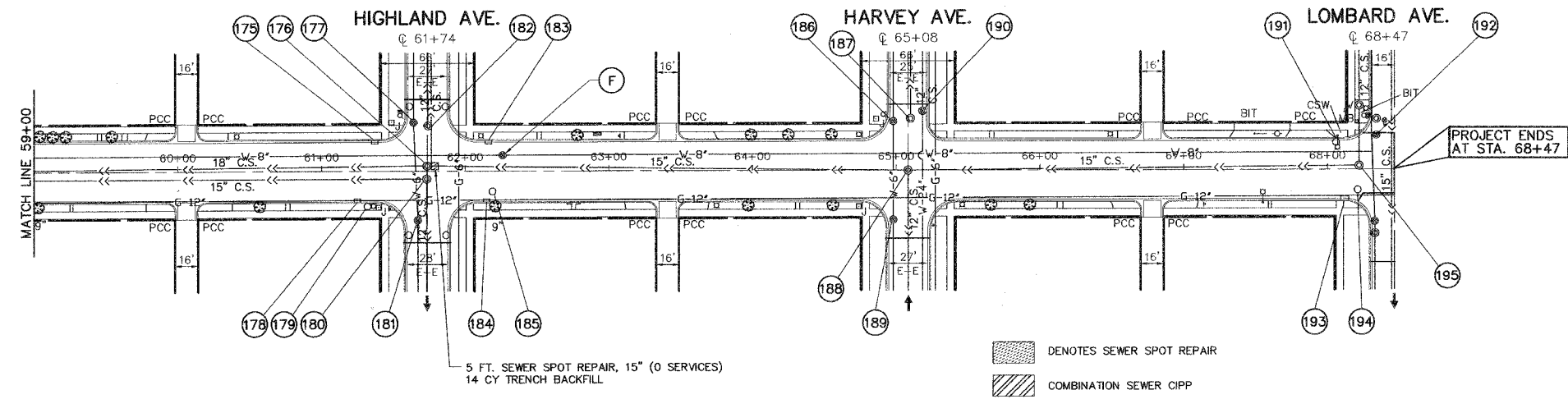


WATER MAIN SCHEDULE

- (F) 1-8" GATE VALVE
- 1-VALVE VAULT, 4' DIA.
- 1-8" SLEEVE
- 3'-8" D.I.P.
- 1-TYPE 1 FRAME WITH "WATER" STAMPED ON CLOSED LID

ALL BUFFALO BOXES ON THIS PROJECT LOCATED BETWEEN THE CURB AND THE SIDEWALK ARE TO BE ADJUSTED TO GRADE. BROKEN OR OTHERWISE UNUSABLE BUFFALO BOXES SHALL BE REPAIRED AND BE PAID FOR AS DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED, SPECIAL.

IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.



Frank Novotny & Associates, Inc.
 825 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 887-8640 • Fax: (630) 887-0132
 Illinois Professional Design Firm No. 184-000928

PROJECT CITY OF BERWYN, ILLINOIS
 16TH STREET RESURFACING
 SECTION NO. 03-000159-00-RS

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

DRAINAGE PLAN
 16TH STREET
 STA. 59+00 TO STA. 68+47
 (LOMBARD AVE.)

PROJECT NO. 02260	SCALE H:1"=50'; V:1"=1'	SHEET 14 OF 24 SHEETS
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005	
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE	

M:\Berwyn\2005\02260 - 16th St - L.A.P\02260_SIT_05-09_PavePlan-10-14_DrainPlan-15_Opaticom-16_PaveSta-17-18_Striping.dwg, 12/20/2005 11:19:39 PM

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	15
F. HW. A. REG.	ILLINOIS	PROJECT STPM-8003(581)		

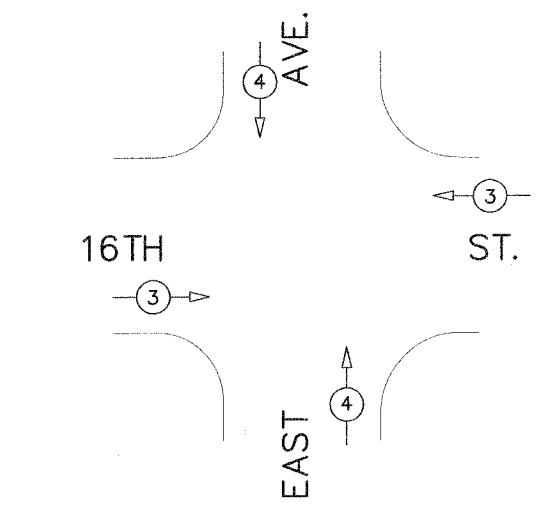
CONTRACT NO. 83835

SCHEDULE OF QUANTITIES

Description	Unit	QUANTITY
Light Detector	EACH	2
Light Detector Amplifier	EACH	1
Electric Cable in Conduit, No. 20, 3/C, Twisted, Shielded	FOOT	260

CABLE SLACK	(FT.)	VERTICAL	(FT.)
HANDHOLE	6.5	ALL FOUNDATIONS	3.5
DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'+L-2
SIGNAL POST	2	BRACKET MOUNTED	2
CONTROLLER CABINET	1	PED. PUSH BUTTON	1
FIBER OPTIC	13	ELECTRIC SERVICE	13
ELECTRIC SERVICE	1	SERVICE TO GROUND	1
GROUND CABLE	1	POST MOUNTED	1

ALL EVDS EQUIPMENT SHALL BE MANUFACTURED BY OPTICOM



NOT TO SCALE

PROPOSED PREEMPTOR LANES

PREEMPTOR LANE INTERVAL	3	4
MOVEMENT	← →	↑ ↓

PREEMPTOR PHASING DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE NOTES FOR DUAL ENTRY OPERATION - ALL LEGS

CABLE PLAN LEGEND

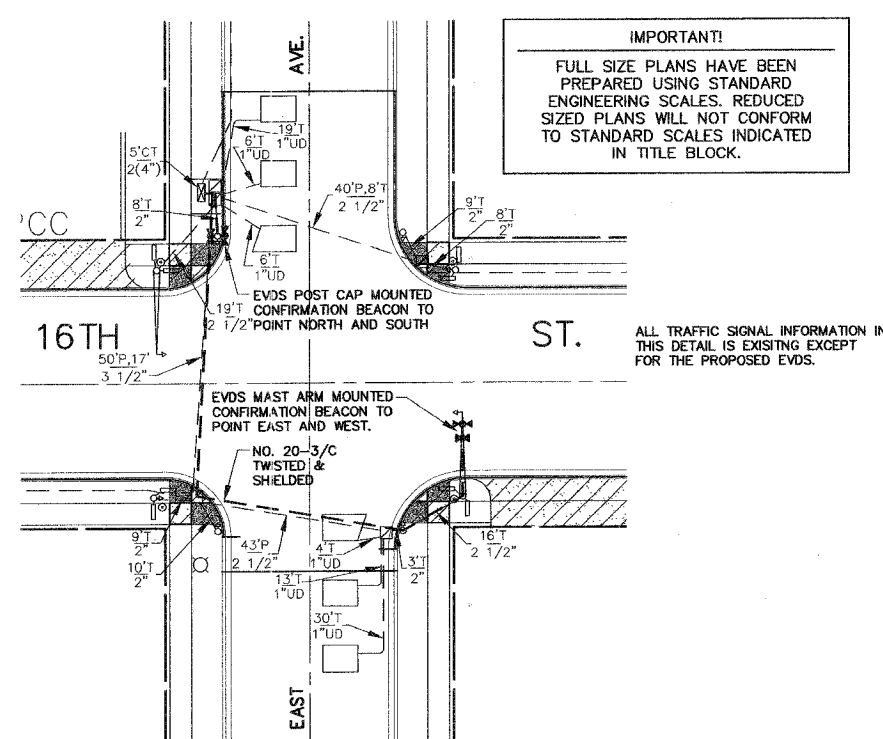
	EXISTING	PROPOSED
8" TRAFFIC SIGNAL SECTION		
12" TRAFFIC SIGNAL SECTION		
12" PEDESTRIAN SIGNAL SECTION		
CONTROLLER CABINET		
SERVICE INSTALLATION		
TELEPHONE INSTALLATION		
VEHICLE DETECTOR, INDUCTION LOOP		
MAGNETIC DETECTOR		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
PEDESTRIAN PUSH-BUTTON DETECTOR		
DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.		
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		
FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F		
SIGNAL FACE WITH BACKPLATE		
"P" INDICATES PROGRAMMED HEAD		

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
POWER POLE SERVICE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNALHEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
COMMON TRENCH		
UNIT DUCT		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
SIGNAL POST		
RACEWAY FOR MAGNETIC DETECTOR, TYPE 2		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
FIBER OPTIC SIGN (NO LEFT TURN)		
FIBER OPTIC SIGN (NO RIGHT TURN)		
SIDEWALK REMOVAL AND REPLACEMENT		
UNINTERRUPTIBLE POWER SUPPLY		
DETECTOR LOOP, LARGER		
DETECTOR LOOP LINE		
DETECTOR LOOP QUADRAPOLE		
GULFBOX JUNCTION		
TEMP. SIGNAL HEAD		
UNDERGROUND CABLE		



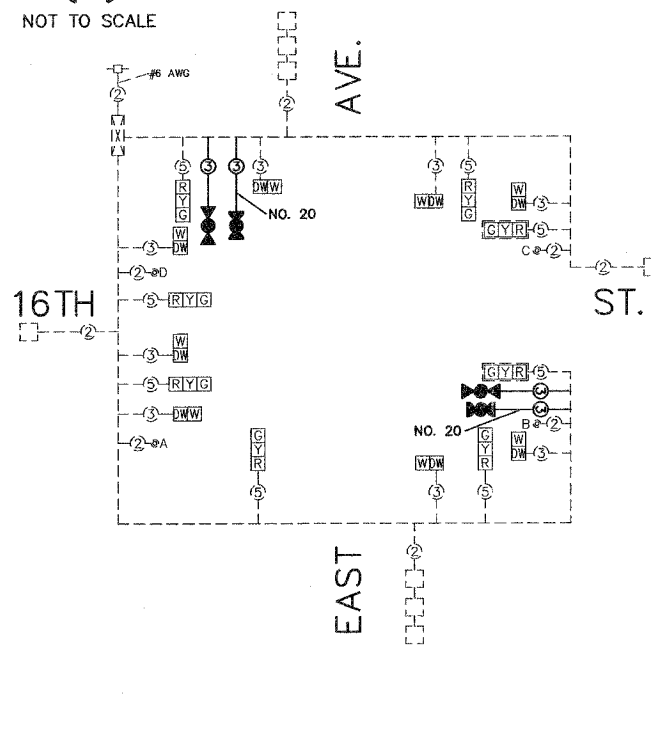
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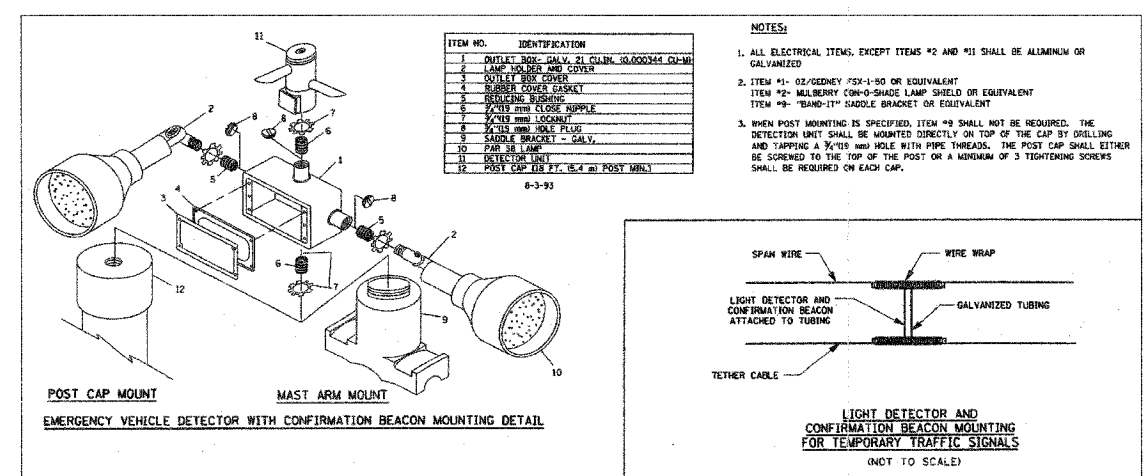
EXISTING TRAFFIC SIGNAL PLAN AND PROPOSED EVDS PLACEMENT



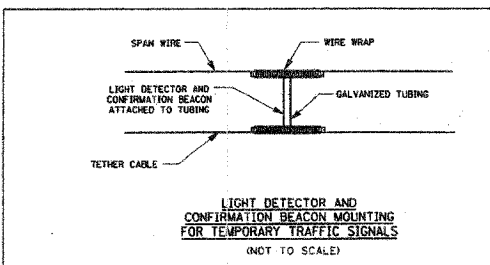
NOT TO SCALE



CABLE PLAN



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS (NOT TO SCALE)

REVISIONS

NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

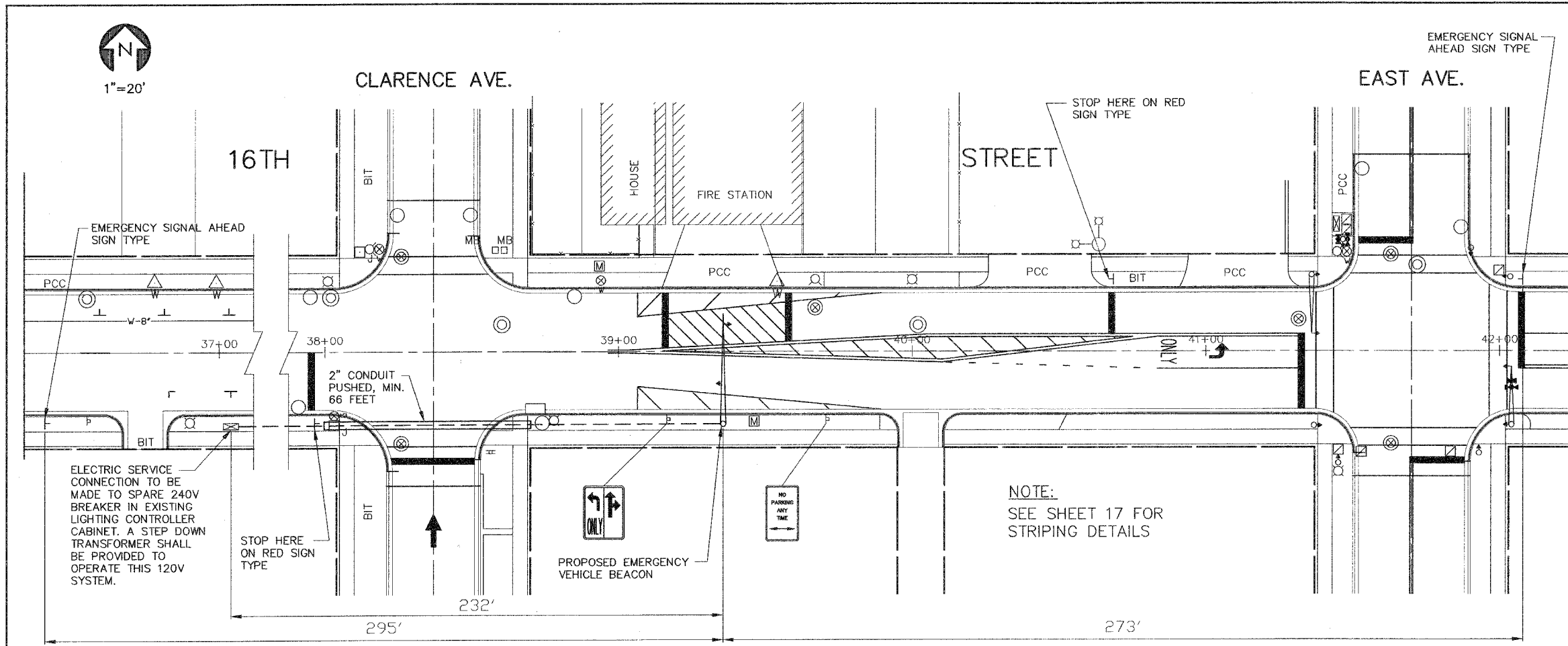
EMERGENCY VEHICLE DETECTION SYSTEM

PROJECT NO.	SCALE	SHEET
02260	VARIABLE	15
DRAWN/DESIGNED	DATE	OF
JEP-RAW/THK	OCT., 2005	24
CHECKED/APPROVED	FIELD BOOK NO.	SHEETS
JEF	FILE	

M:\Berwyn\2005\02260 - 16th St - LA\2005\02260-SHT-03-09_Portal-14_Drawing-15_Opticom-16_Pres-17-18_Suppling.dwg, 12/20/2005 11:20:38 PM

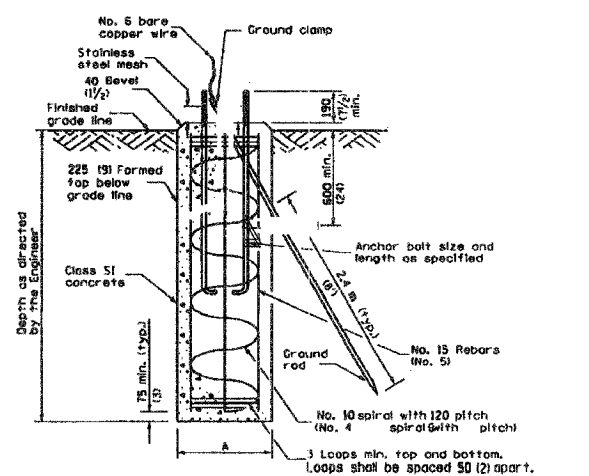
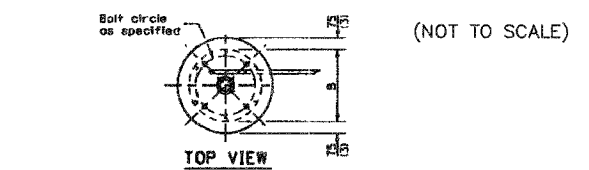
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	16
F. HW. A. REG.	ILLINOIS	PROJECT STPM-8003(581)	CONTRACT NO. 83835	

IMPORTANT!
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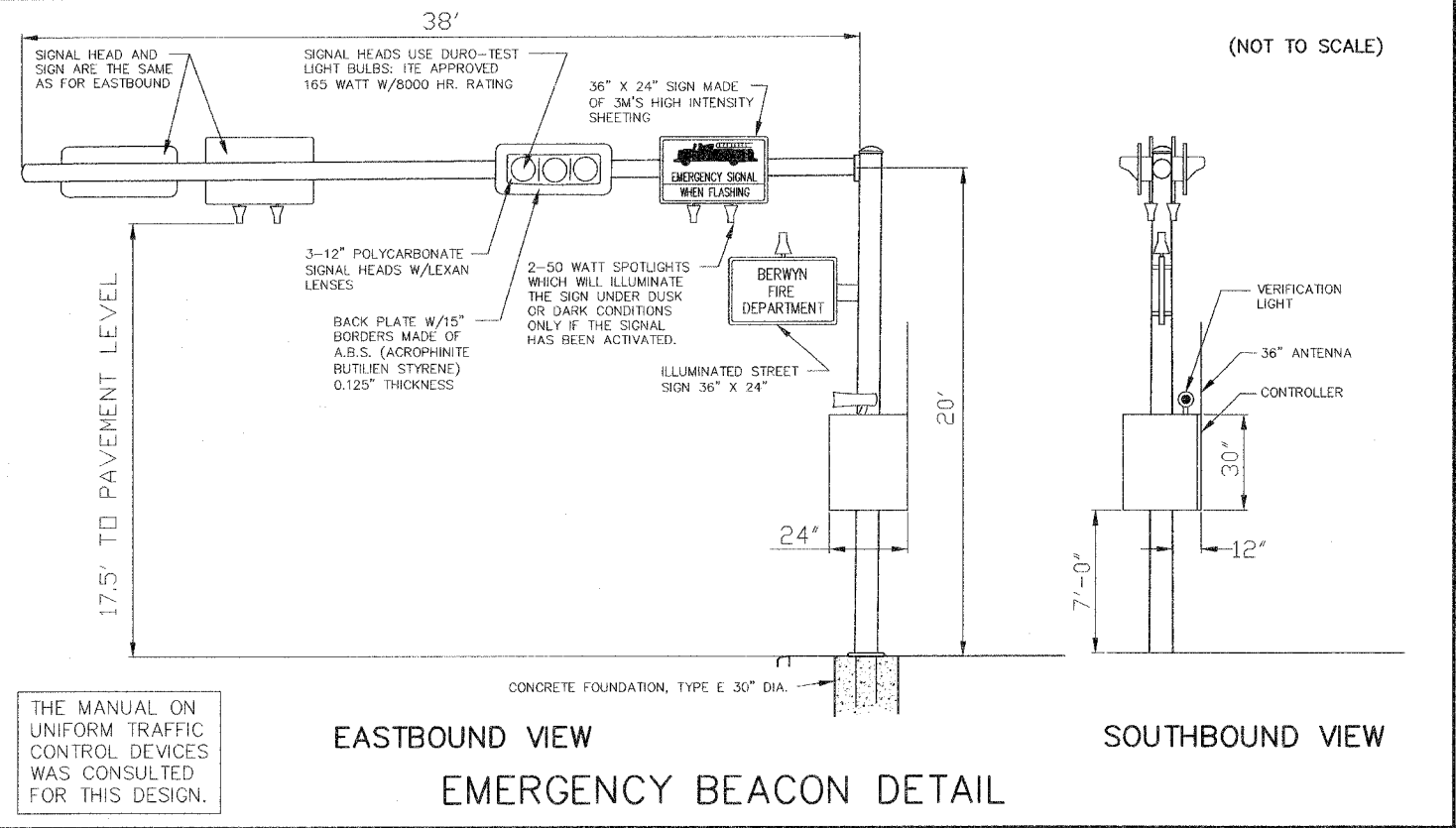
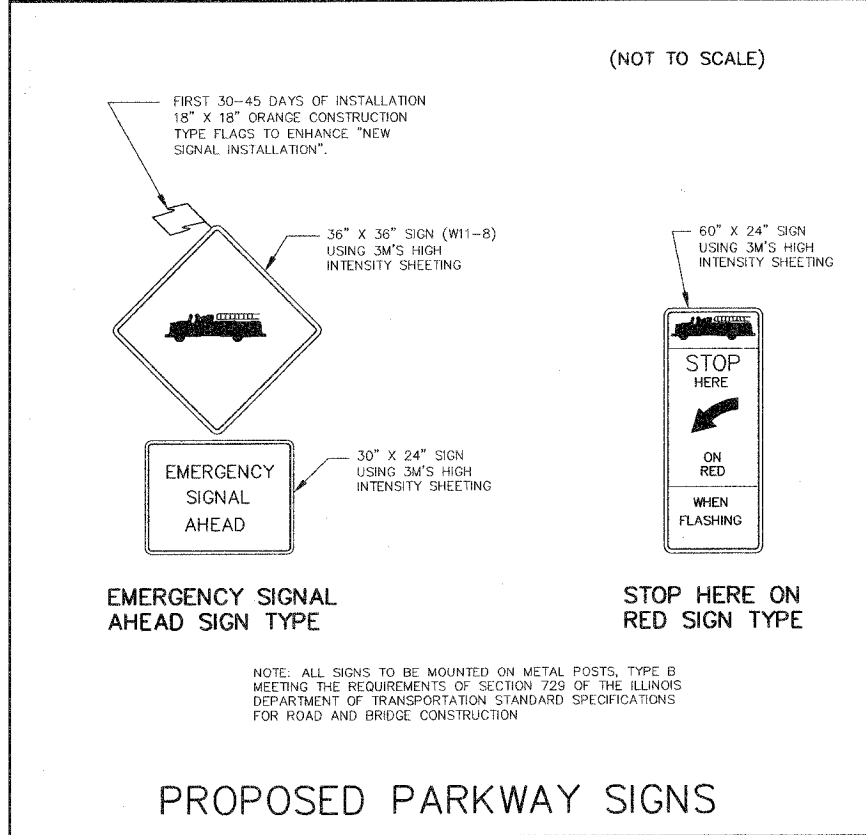


PHASE	A			
INTERVAL	1	2	3	4
16TH STREET EAST & WEST BOUND	FLASHING YELLOW (3sec) (RADIO SIGNAL ACTIVATED)	STEADY BURN YELLOW (5sec)	FLASHING RED (30sec)	OFF (RESET)

EMERGENCY SIGNAL SEQUENCE OF OPERATIONS



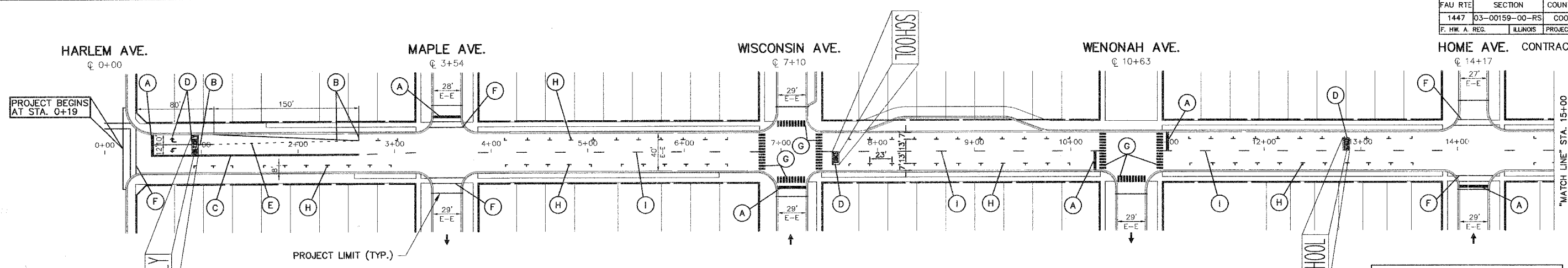
Most arm length	A	B	Number of No. 15 Foundation	Foundation depth
Less than 9.1 m (30')	750 (30)	600 (24)	8	2.7 m # (9'-0")
Greater than or equal to 9.1 m (30') and less than 12.2 m (40')	750 (30)	600 (24)	8	3.7 m # (12'-0")
Greater than or equal to 12.2 m (40') and less than 15.2 m (50')	750 (30)	600 (24)	8	4.6 m # (15'-0")
Greater than or equal to 15.2 m (50') and up to 16.8 m (55')	750 (30)	600 (24)	8	5.2 m # (17'-0")



REVISIONS				
NO.	BY	DATE	DESCRIPTION	
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS	
2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS	
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS	

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	17
F. HW. A. REG.	ILLINOIS	PROJECT STPM-8003(581)		

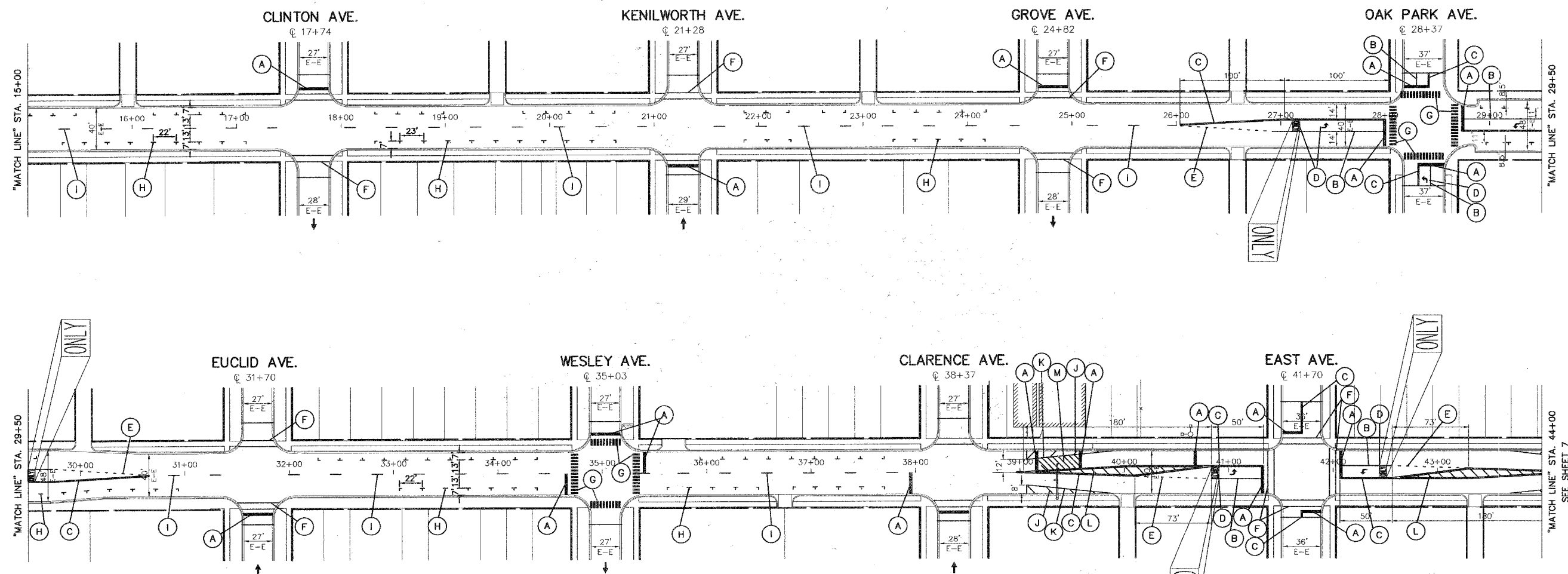
CONTRACT NO. 83835



STRIPING LEGEND

- (A) SOLID WHITE THERMOPLASTIC STOP LINE, 24" WIDTH
- (B) SOLID WHITE THERMOPLASTIC LINE, 6" WIDTH
- (C) DOUBLE SOLID YELLOW THERMOPLASTIC CENTER, 4" WIDTH AT 11" CENTER TO CENTER
- (D) SOLID WHITE THERMOPLASTIC LETTERS AND SYMBOLS
- (E) SOLID WHITE THERMOPLASTIC SKIP DASH 6" WIDTH, 2' DASH 6' SKIP
- (F) SOLID WHITE THERMOPLASTIC CROSSWALK LINE, 6" WIDTH, 6 FEET APART
- (G) SOLID WHITE THERMOPLASTIC CROSSWALK BARS, 12" WIDTH, 2 FEET APART
- (H) SOLID WHITE THERMOPLASTIC PARKING STALL MARKING, 4" WIDTH, 12" x 6" "T"
- (I) SOLID YELLOW THERMOPLASTIC SKIP DASH CENTER 4" WIDTH 10' LONG AT 30 FOOT INTERVALS
- (J) SOLID WHITE THERMOPLASTIC LINE, 45° DIAGONAL, 12" WIDTH, 14' APART
- (K) SOLID WHITE THERMOPLASTIC LINE, 8" WIDTH
- (L) SOLID YELLOW THERMOPLASTIC LINE, 45° DIAGONAL, 12" WIDTH, 8' APART
- (M) SOLID WHITE THERMOPLASTIC LINE, 45° DIAGONAL, 12" WIDTH, 4' APART

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PROJECT
CITY OF BERWYN, ILLINOIS
16TH STREET RESURFACING
 SECTION NO. 03-000159-00-RS

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

STRIPING & DETECTOR LOOP REPLACEMENT
 16TH STREET
 HARLEM AVE. TO STA. 44+00

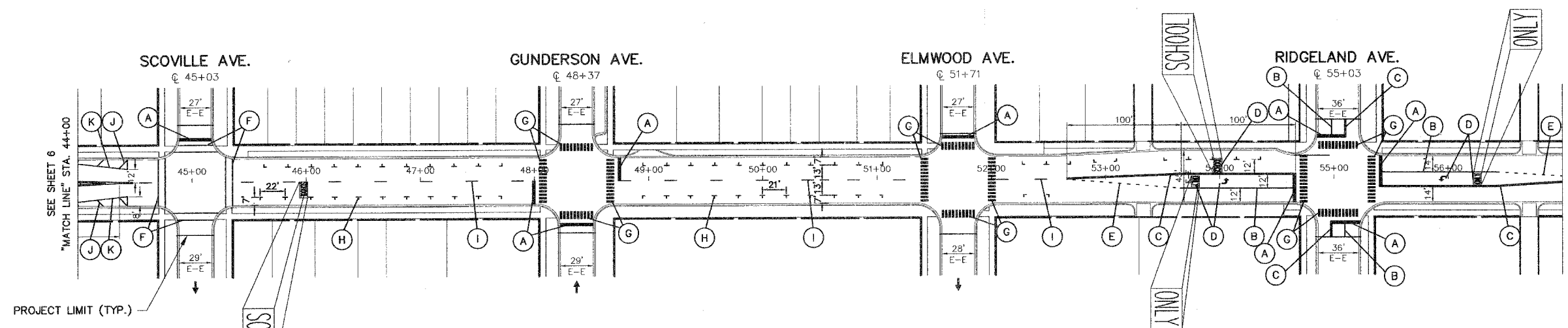
PROJECT NO. 02260	SCALE 1"=50'
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE

SHEET
17
OF
24
SHEETS

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FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	18
F. HW. A. REG.	ILLINOIS	PROJECT STPM-8003(581)		

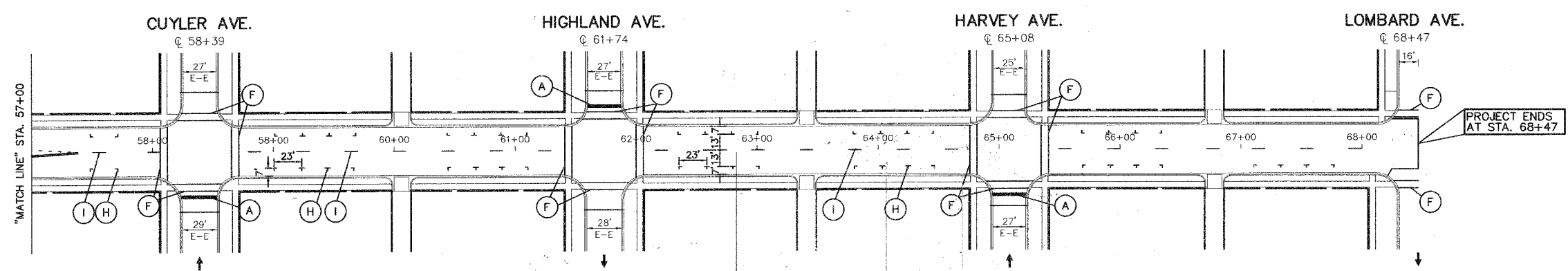
CONTRACT NO. 83835



STRIPING LEGEND

- (A) SOLID WHITE THERMOPLASTIC STOP LINE, 24" WIDTH
- (B) SOLID WHITE THERMOPLASTIC LINE, 6" WIDTH
- (C) DOUBLE SOLID YELLOW THERMOPLASTIC CENTER, 4" WIDTH AT 11" CENTER TO CENTER
- (D) SOLID WHITE THERMOPLASTIC LETTERS AND SYMBOLS
- (E) SOLID WHITE THERMOPLASTIC SKIP DASH 6" WIDTH, 2' DASH 6" SKIP
- (F) SOLID WHITE THERMOPLASTIC CROSSWALK LINE, 6" WIDTH, 6 FEET APART
- (G) SOLID WHITE THERMOPLASTIC CROSSWALK BARS, 12" WIDTH, 2 FEET APART
- (H) SOLID WHITE THERMOPLASTIC PARKING STALL MARKING, 4" WIDTH, 12" x 6" "T"
- (I) SOLID YELLOW THERMOPLASTIC SKIP DASH CENTER 4" WIDTH 10' LONG AT 30 FOOT INTERVALS
- (J) SOLID WHITE THERMOPLASTIC LINE, 45° DIAGONAL, 12" WIDTH, 14' APART
- (K) SOLID WHITE THERMOPLASTIC LINE, 8" WIDTH
- (L) SOLID YELLOW THERMOPLASTIC LINE, 45° DIAGONAL, 12" WIDTH, 8' APART
- (M) SOLID WHITE THERMOPLASTIC LINE, 45° DIAGONAL, 6" WIDTH

IMPORTANT!
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 Illinois Professional Design Firm No. 184-000928

PROJECT
CITY OF BERWYN, ILLINOIS
16TH STREET RESURFACING
SECTION NO. 03-000159-00-RS

R E V I S I O N S			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/14/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

STRIPING & DETECTOR LOOP REPLACEMENT
 16TH STREET
 STA. 44+00 TO LOMBARD AVE.

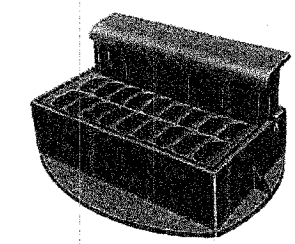
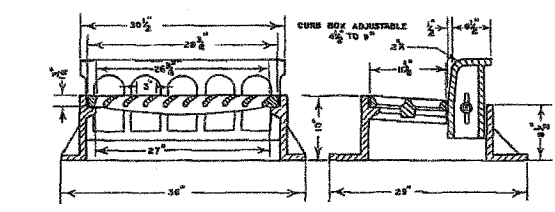
PROJECT NO. 02260	SCALE 1"=50'	SHEET 18
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005	OF 24
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE	SHEETS

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FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	19
F. HW. A. REG.		ILLINOIS PROJECT STPM-8003(581)		CONTRACT NO. 83835

R-3281-AL
Curb Inlet Frame, Grate and Curb Box

Heavy Duty
Also available with open curb box (no bars), or with flat curb plate instead of curb box. (See R-3246-1)

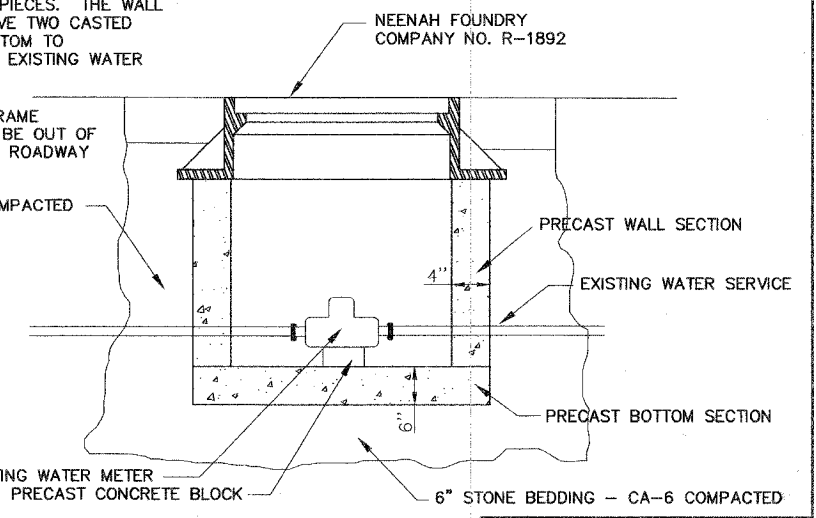


CURB INLET FRAME, GRATE AND CURB BOX

PRECAST PCC STRUCTURE TO BE DELIVERED IN TWO PIECES. THE WALL SECTION SHALL HAVE TWO CASTED HOLES AT THE BOTTOM TO ACCOMMODATE THE EXISTING WATER SERVICE PIPE.

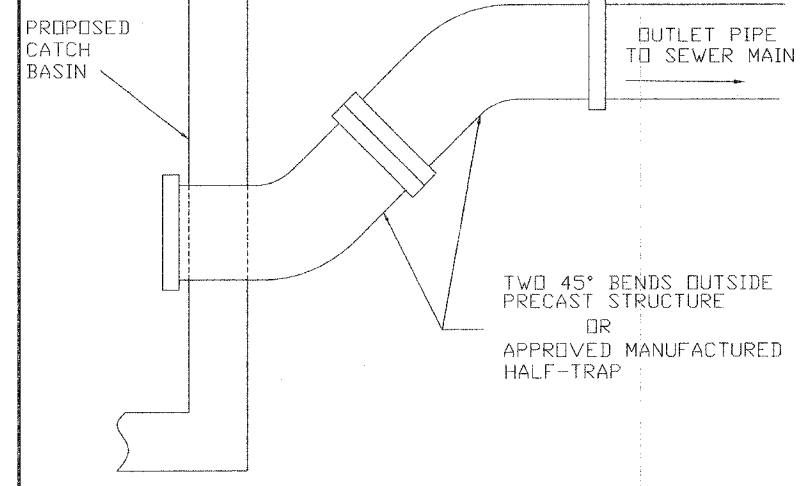
STRUCTURE AND FRAME PLACEMENT SHALL BE OUT OF THE CURBLINE AND ROADWAY WHEN POSSIBLE

CA-6 BACKFILL COMPACTED IN PLACE



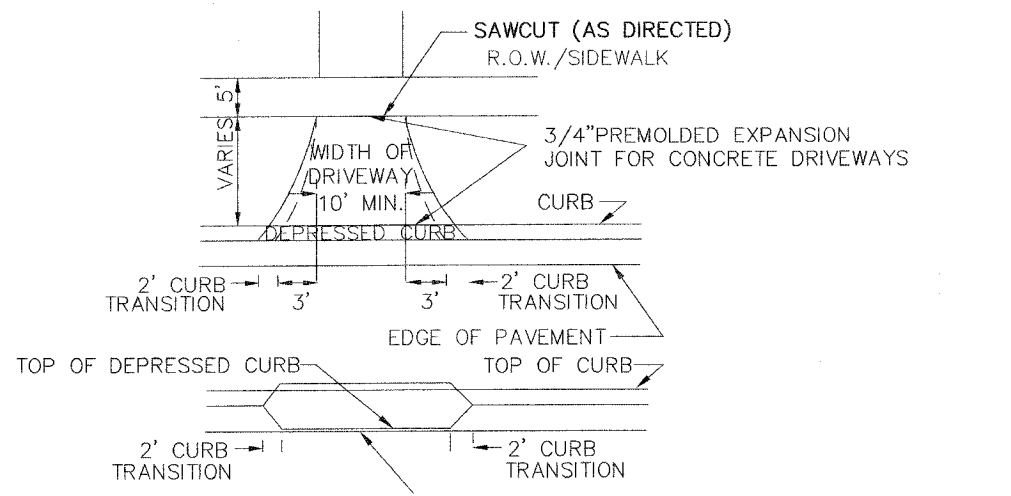
NEENAH FOUNDRY COMPANY NO. R-1892

DOMESTIC WATER METER VAULT ADJUSTMENT, SPECIAL



TWO 45° BENDS OUTSIDE PRECAST STRUCTURE OR APPROVED MANUFACTURED HALF-TRAP

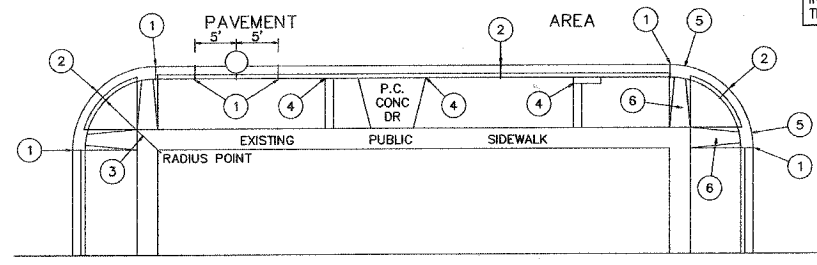
HALF-TRAP DETAIL



THICKNESS OF CURB AND GUTTER FLAG SHALL BE 9 INCHES, MIN.
SAWCUTTING AND THE 3/4" PREMOLDED EXPANSION JOINT WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO PCC DRIVEWAY PAVEMENT, 7"

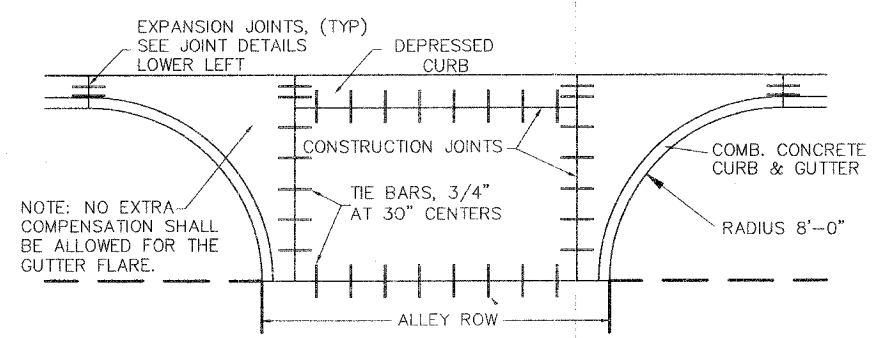
TYPICAL DRIVEWAY DETAIL

JOINT DETAILS



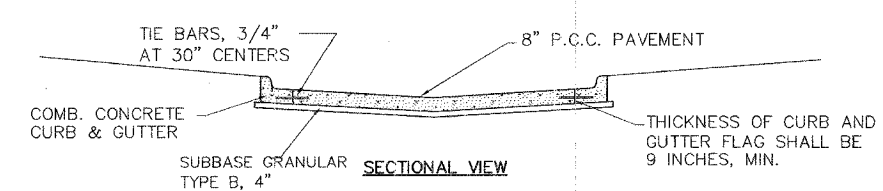
ALL MATERIALS AND LABOR NEEDED TO FULFILL THE REQUIREMENTS OF THESE JOINT DETAILS SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS THEY PERTAIN TO

1. EXPANSION JOINTS AT TANGENT POINTS AND 150 FOOT INTERVALS, CONSISTING OF ONE INCH PREMOLDED JOINT FILLER MATERIAL WITH #8 DOWEL BARS, 18" IN LENGTH, GREASED, PROVIDE EXPANSION CAP ON ONE END. ALSO CONSTRUCT THIS JOINT FIVE FEET EACH SIDE OF PROPOSED UNDERGROUND STRUCTURE.
2. CONTRACTION JOINTS AT TWENTY-FIVE FOOT INTERVALS AND AT THE CENTER OF RETURNS.
3. ALL RADI SHALL MATCH EXISTING UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. LONGITUDINAL EXPANSION JOINT CONSISTING OF ONE INCH PREMOLDED JOINT FILLER.
5. DEPRESS CURB AT LOCATIONS WHERE PUBLIC WALKS INTERSECT CURB LINE AT STREET INTERSECTIONS, ALLEYS, AND OTHER LOCATIONS AS DIRECTED.
6. INSTALL HANDICAP RAMP AT LOCATIONS WHERE PUBLIC WALKS INTERSECT CURB LINE AT STREET INTERSECTIONS AND ALLEYS AS DIRECTED.



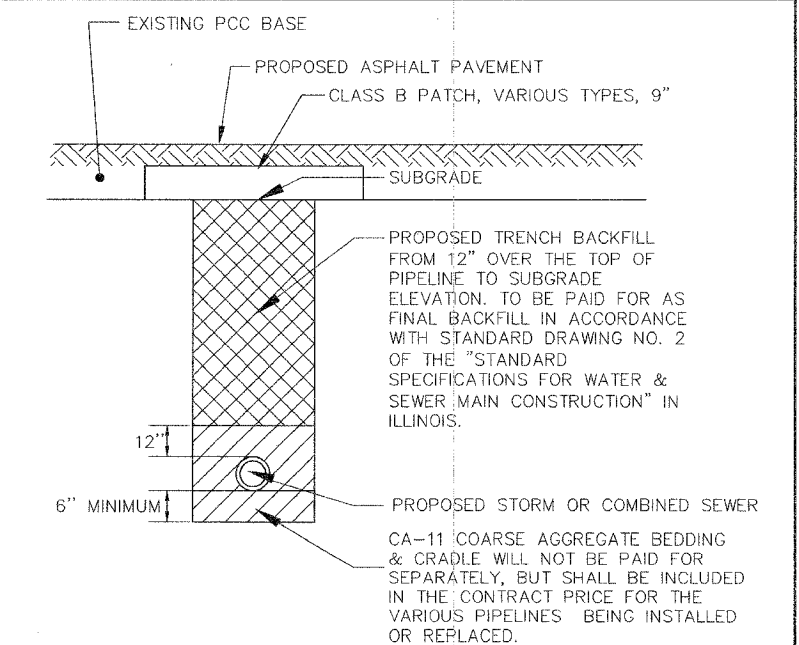
NOTE: NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE GUTTER FLARE.

PLAN VIEW



SECTIONAL VIEW

TYPICAL ALLEY RETURN DETAIL



CA-11 COARSE AGGREGATE BEDDING & CRADLE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE VARIOUS PIPELINES BEING INSTALLED OR REPLACED.

TYPICAL TRENCH DETAIL

Frank Novotny & Associates, Inc.
Civil Engineers/Municipal Consultants
825 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 887-8640 • Fax: (630) 887-0132
Illinois Professional Design Firm No. 184-000928

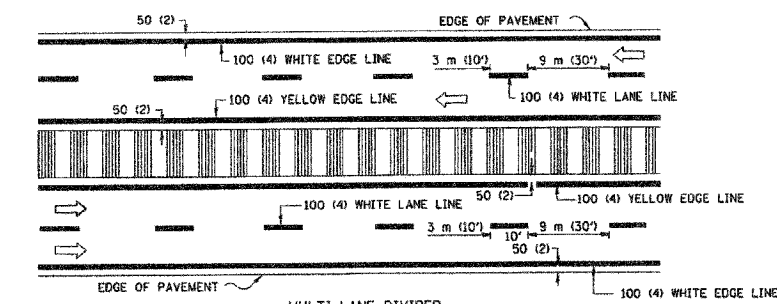
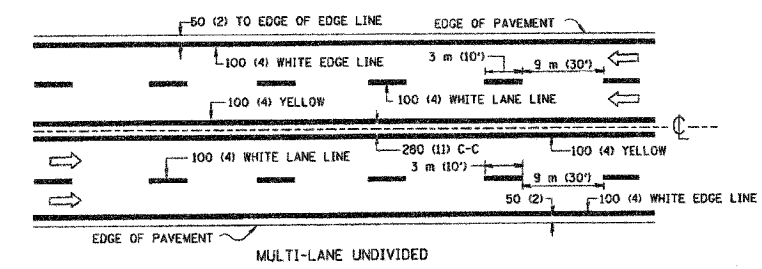
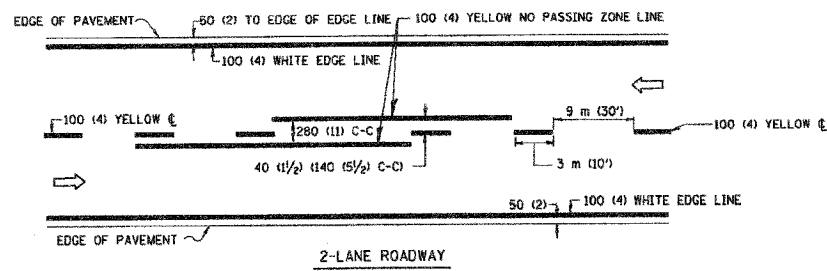
PROJECT CITY OF BERWYN, ILLINOIS
16TH STREET RESURFACING
SECTION NO. 03-000159-00-RS

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/12/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

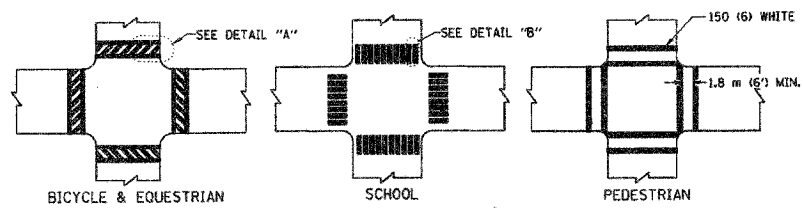
CONSTRUCTION STANDARDS

PROJECT NO. 02260	SCALE NONE	SHEET 19
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005	OF 24
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE	SHEETS

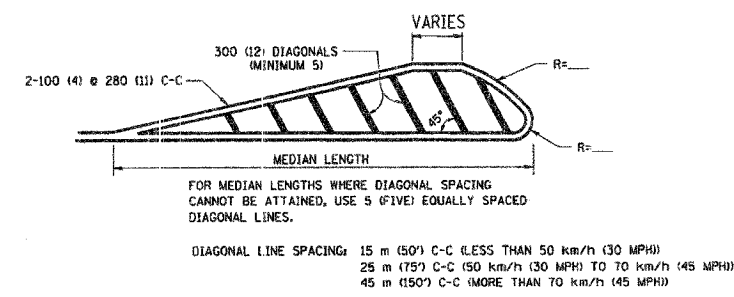
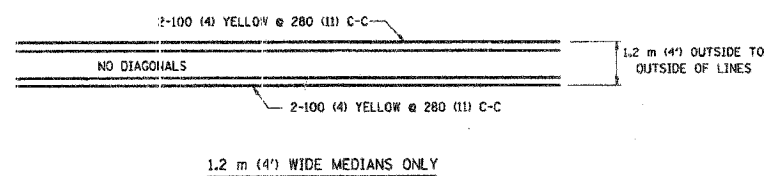
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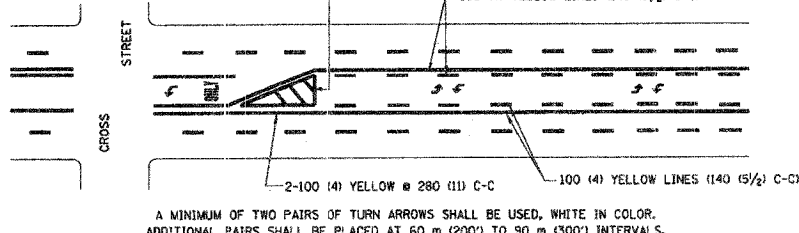
TYPICAL LANE AND EDGE LINE MARKING



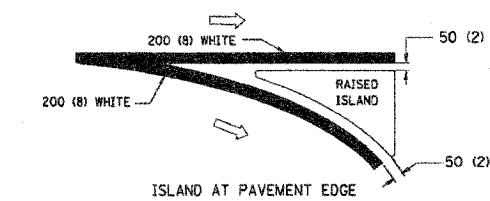
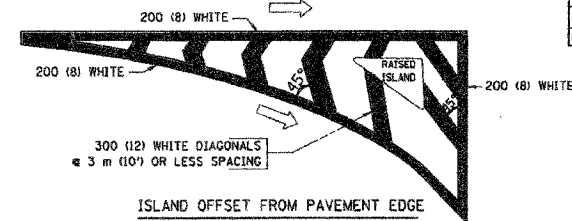
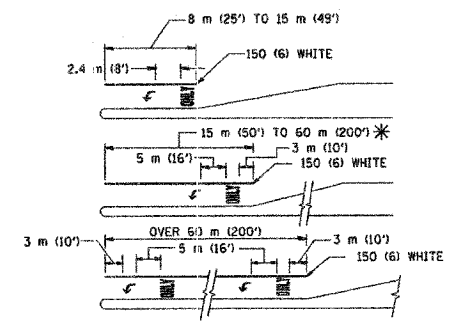
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.33m ² (3.6 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 1997 AND STATE STANDARD 780001.

	LARGE SIZE	SMALL SIZE
THROUGH ARROW	1.07 (11.5)	0.60 (6.5)
LEFT OF RIGHT ARROW	1.47 (15.6)	0.60 (6.5)
COMBINATION LEFT (RIGHT) AND THROUGH ARROW	2.42 (28.0)	1.37 (14.7)
RAILROAD "R" 1.8m (6ft.)	0.33 (3.6)	---
RAILROAD "X" 6.1m (20ft.)	5.02(54.0)	---
HANDICAPPED SYMBOL	0.43 (4.6)	---

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE
DATE: 2/2/01

DRAWN BY: CADD
CHECKED BY:

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\\d:\cadd\projects\dist1\to13.dgn LV=35
VI=TC13

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Civil Engineers/Municipal Consultants
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Illinois Professional Design Firm No. 184-000928

PROJECT
CITY OF BERWYN, ILLINOIS
16TH STREET RESURFACING
SECTION NO. 03-000159-00-RS

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/12/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

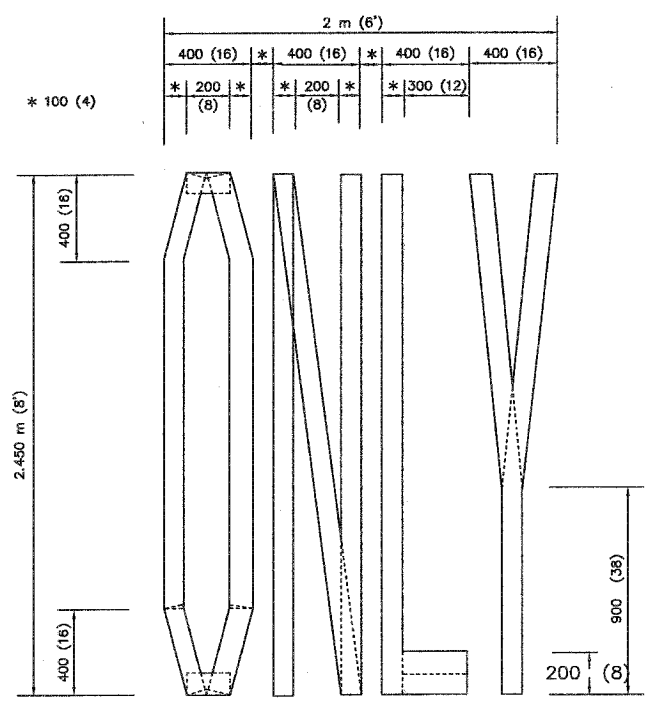
PAVEMENT MARKING STANDARDS

PROJECT NO. 02260
SCALE NONE
DRAWN/DESIGNED: JEP-RAW/THK
CHECKED/APPROVED: JEF
DATE: OCT., 2005
FIELD BOOK NO. FILE

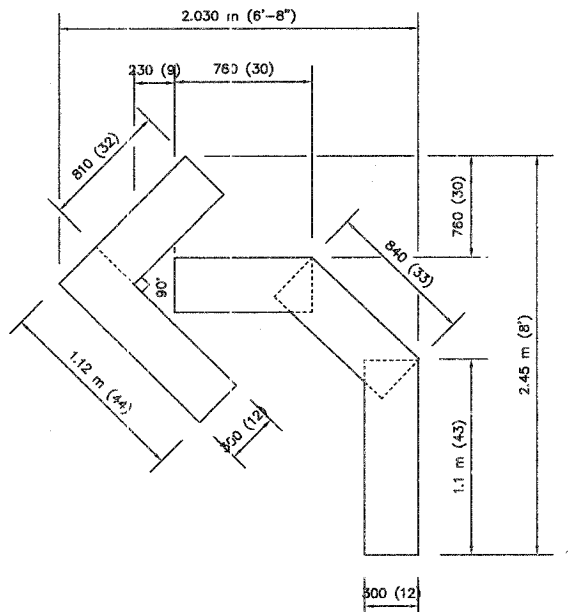
SHEET 20 OF 24 SHEETS

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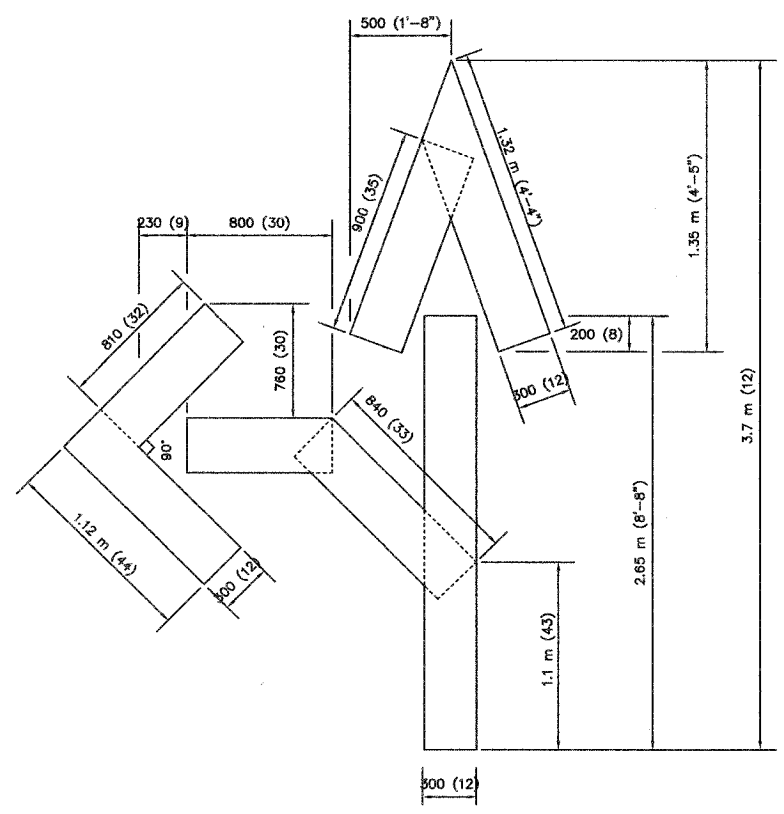
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	21
F. HW. A. REG.	ILLINOIS	PROJECT STPM-8003(581)	CONTRACT NO. 83835	



QUANTITY
 100 (4) LINE = 19.7 m (641.1 ft.)
 1.97 sq. m (21.1 sq. ft.)



QUANTITY
 100 (4) LINE = 13.9 m (45.5 ft.)
 1.39 sq. m (15.2 sq. ft.)



QUANTITY
 100 (4) LINE = 25.3 m (82.5 ft.)
 2.53 sq. m (27.5 sq. ft.)

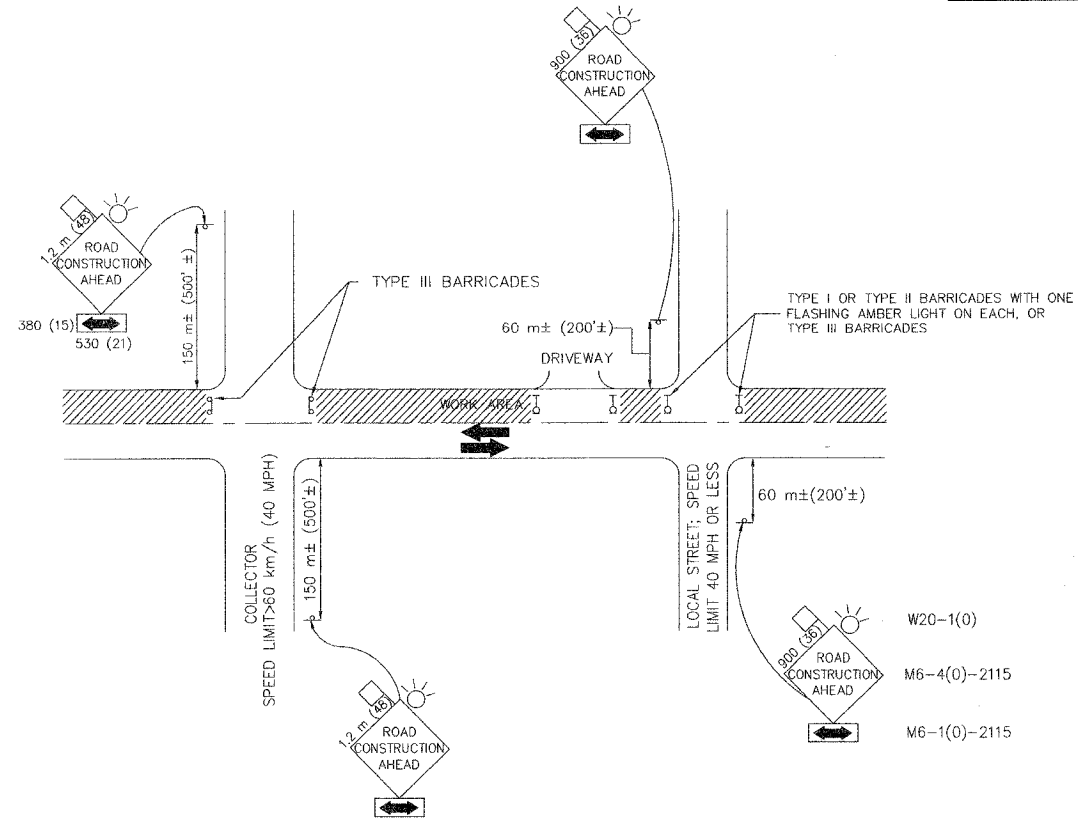
All dimensions are in millimeters (inches)
 unless otherwise shown

REVISIONS	
NO.	DATE
1	09/18/94
2	06/01/96
3	03/02/98

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMPORARY PAVEMENT MARKING
 LETTERS AND SYMBOLS
 SCALE: NONE
 DATE 08/19/99
 DRAWN BY CADD
 CHECKED BY

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/12/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	22
F. HW. A. REG.	ILLINOIS	PROJECT STPM-8003(581)	CONTRACT NO. 83835	



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - A) ONE ROAD CONSTRUCTION AHEAD SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') IN ADVANCE OF THE MAIN ROUTE.
 - B) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - A) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.
 - B) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

 - C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
 - D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTIONS, & DRIVEWAYS

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96

SCALE: NONE
DATE 08/19/99
DRAWN BY CADD
CHECKED BY

Frank Novotny & Associates, Inc.
Civil Engineers/Municipal Consultants
825 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 887-8640 • Fax: (630) 887-0132
Illinois Professional Design Firm No. 184-000928

PROJECT
CITY OF BERWYN, ILLINOIS
16TH STREET RESURFACING
SECTION NO. 03-000159-00-RS

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/12/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

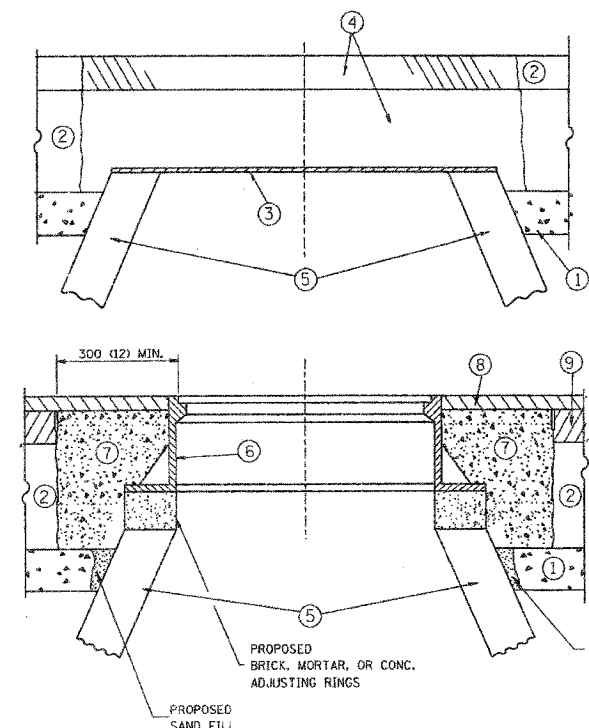
TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTIONS, & DRIVEWAYS

PROJECT NO. 02260	SCALE NONE	SHEET 22
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005	OF 24
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE	SHEETS

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FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	23
F. HW. A. REG.	ILLINOIS	PROJECT STPM-8003(581)		

CONTRACT NO. 83835



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 300 (12) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 900 (36) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 40 (1 1/2) THICK BITUMINOUS MATERIAL APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE BITUMINOUS MATERIAL AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 900 (36) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND BITUMINOUS MATERIAL
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS SI CONCRETE, BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL
- ⑧ PROPOSED BITUMINOUS CONCRETE SURFACE COURSE
- ⑨ PROPOSED BITUMINOUS CONCRETE BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT: FRAMES AND LIDS TO BE ADJUSTED, SPECIAL EACH
NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE RECONSTRUCTION PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97

SCALE: NONE
DATE: 2/2/01
DRAWN BY: [blank]
CHECKED BY: [blank]

BD600-03 (BD-8)

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VT=808

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Municipal Consultants
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Illinois Professional Design Firm No. 184-000928

PROJECT
CITY OF BERWYN, ILLINOIS
16TH STREET RESURFACING
SECTION NO. 03-000159-00-RS

REVISIONS				
NO.	BY	DATE	DESCRIPTION	
1	THK	11/30/05	PER IDOT DIST. 1	B.L.R. COMMENTS
2	THK	12/12/05	PER IDOT DIST. 1	B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1	B.L.R. COMMENTS

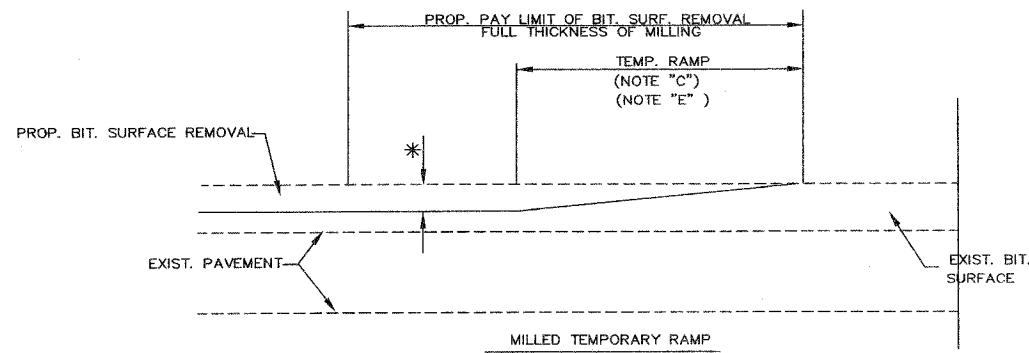
DISTRICT ONE

PROJECT NO. 02260	SCALE NONE
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE

SHEET
23
OF
24
SHEETS

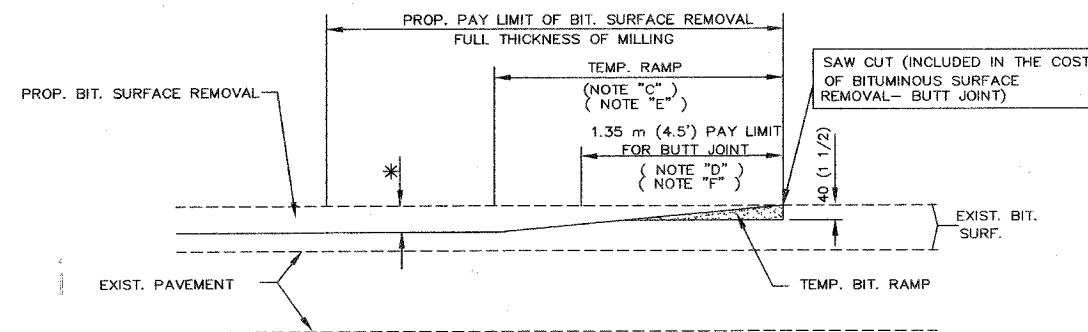
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FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1447	03-00159-00-RS	COOK	24	24
F. HW. A. REG.	ILLINOIS	PROJECT STPM-8003(581)	CONTRACT NO. 83835	



(FOR BUTT JOINT AND BIT. TAPER- SEE DETAIL BELOW)

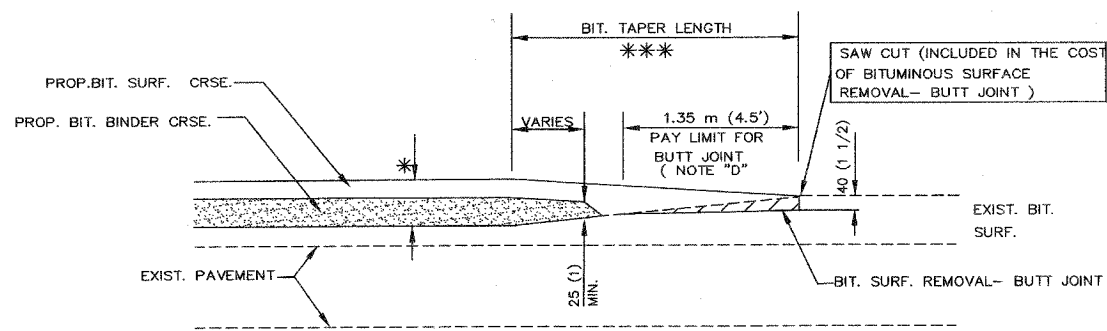
OPTION 1



(FOR BUTT JOINT AND BIT. TAPER- SEE DETAIL BELOW)

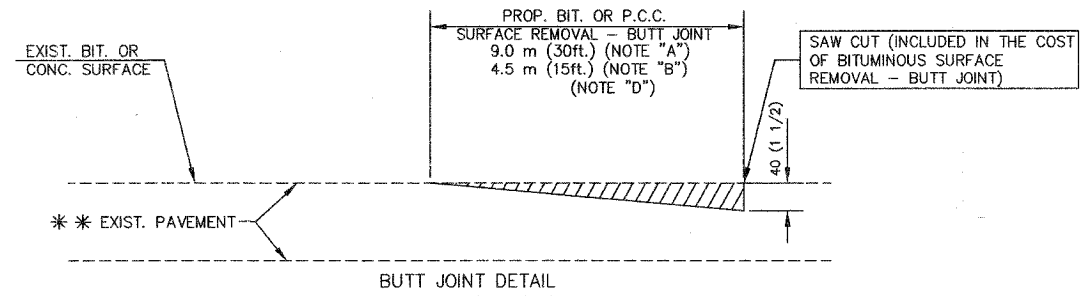
OPTION 2

TYPICAL TEMPORARY RAMP

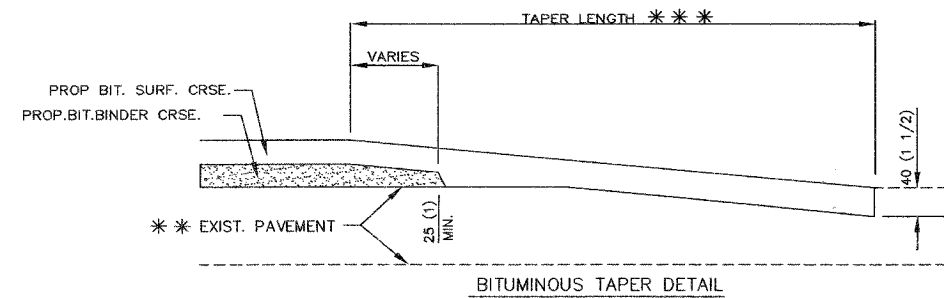


BUTT JOINT AND BITUMINOUS TAPER

TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



BITUMINOUS TAPER DETAIL

TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR RESURFACING ONLY

*** PC CONCRETE, BITUMINOUS OR BITUMINOUS RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAY AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING BITUMINOUS SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED BITUMINOUS SURFACES.
 - E: TAPER THE TEMP. RAMP AT THE RATE OF 900 (3 ft.) PER INCH OF MILLING THICKNESS
 - F: INSTALLATION AND REMOVAL OF THE 1.35m (4.5') TEMP. BIT. RAMP WILL BE PAID AS " BITUMINOUS SURFACE REMOVAL - BUTT JOINT".
 - G: SEE ARTICLE 406.18 AND 406.24 OF THE STANDARD SPECIFICATIONS FOR "BITUMINOUS AND PCC SURFACE REMOVAL - BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 6.1 m (20') PER 25 (1) RESURFACING (NOTE "A")
3.0 m (10') PER 25 (1) RESURFACING (NOTE "B")

All dimensions are in millimeters (Inches) unless otherwise shown

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR PER SQUARE METER (SQUARE YARD.) AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT" OR AS " PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS		
NO.	BY	DATE
1	THK	11/30/05
2	THK	12/12/05
3	THK	12/16/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND BITUMINOUS TAPER DETAILS

SCALE: NONE
DATE 08/19/99
DRAWN BY CADD
CHECKED BY

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	THK	11/30/05	PER IDOT DIST. 1 B.L.R. COMMENTS
2	THK	12/12/05	PER IDOT DIST. 1 B.L.R. COMMENTS
3	THK	12/16/05	PER IDOT DIST. 1 B.L.R. COMMENTS

BUTT JOINT AND BITUMINOUS TAPER DETAILS

PROJECT NO. 02260	SCALE NONE	SHEET 24
DRAWN/DESIGNED JEP-RAW/THK	DATE OCT., 2005	OF 24
CHECKED/APPROVED JEF	FIELD BOOK NO. FILE	SHEETS