

**WINNEBAGO COUNTY HIGHWAY DEPARTMENT**  
**PLANS FOR PROPOSED HSIP IMPROVEMENT**  
**FAU 5034 (BAUER PARKWAY)**



**INDEX OF SHEETS**

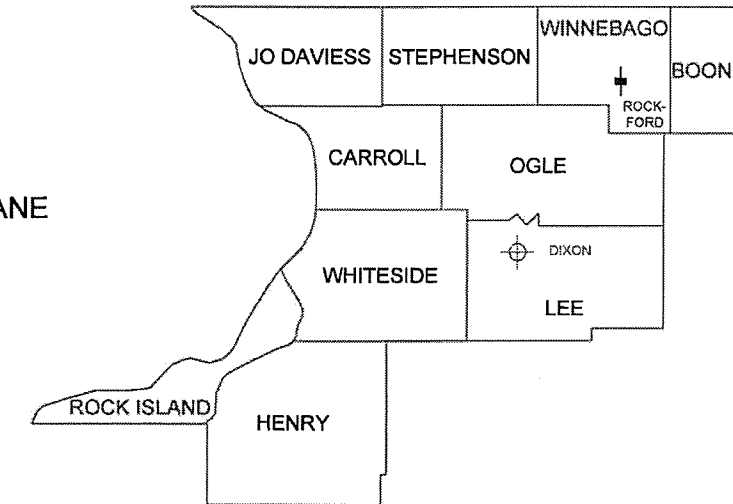
SHEET NO.	SHEET NAME
1	COVER SHEET
2	GENERAL NOTES & LEGEND
3	SUMMARY OF QUANTITIES & SCHEDULE OF QUANTITIES
4	ADA RAMP AND SIDEWALK DETAILS
5	TRAFFIC SIGNAL PLANS & STRIPING DETAILS
6	SIGNAL DETAILS & SIGNAL QUANTITIES
7	CABLE DIAGRAM AND PHASING DIAGRAM

**STANDARD DRAWINGS**

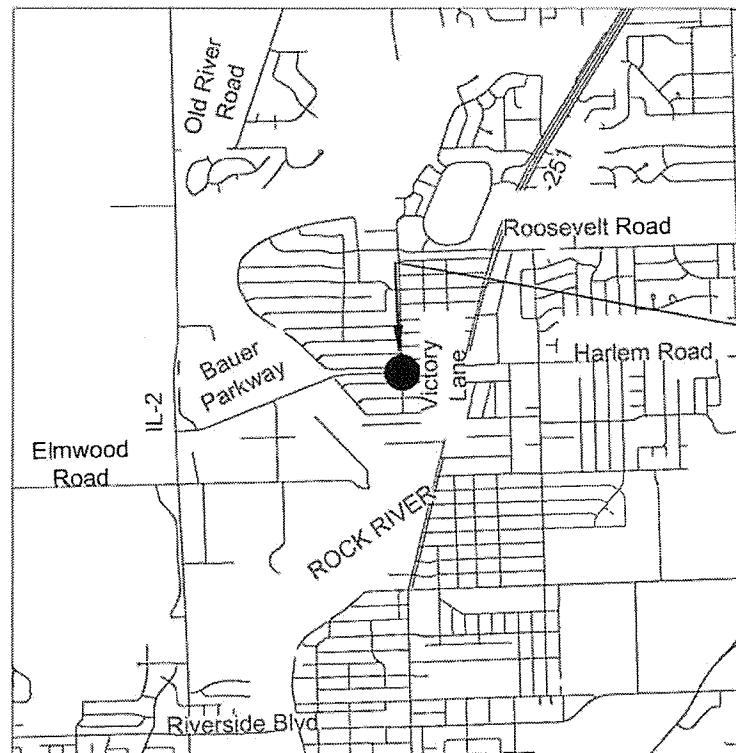
- 001001-02 AREAS OF REINFORCEMENT BARS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 406201-01 MAILBOX TURNOUT
- 424011-03 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
- 606001-07 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701006-05 OFF-RD OPERATIONS, 2 LANE, 2-WAY, 15' TO 24" FROM PAVEMENT EDGE
- 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701427-05 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS <= 40 MPH
- 701802-09 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
- 701806-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIA
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-07 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 720016-04 MAST ARM MOUNTED STREET NAME SIGNS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
- 731001-01 BASE FOR TELESCOPING STEEL SIGN SUPPORT
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001-03 HANDHOLES
- 814006-02 DOUBLE HANDHOLES
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 876001-04 PEDESTRIAN PUSH BUTTON POST
- 877001-07 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- 877002-04 STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
- 878001-10 CONCRETE FOUNDATION DETAILS
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

**SECTION: 17-00032-00-SP**  
**PROJECT NO.: IZNK(681)**

INTERSECTION IMPROVEMENTS AT BAUER PARKWAY (C.H. 25) AND VICTORY LANE  
 JOB NO.: C-92-027-17  
 CONTRACT NO.: 85662



⊕ DISTRICT HEADQUARTER    ⊕ PROJECT LOCATION



17-00032-00-SP PROJECT LIMIT STA 106+00 TO STA 113+50 OF BAUER PARKWAY (EAST -WEST)

17-00032-00-SP PROJECT LIMIT STA 208+75 TO STA 211+80 OF VICTORY LANE (NORTH-SOUTH)

SCALES:	
CROSS-SECTIONS	PLAN & PROFILE
<u>FULL SIZE</u>	<u>FULL SIZE</u>
HORIZONTAL: 1" = 20'	HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'	VERTICAL: 1" = 10'
<u>1/4 SIZE</u>	<u>1/4 SIZE</u>
HORIZONTAL: 1" = 40'	HORIZONTAL: 1" = 100'
VERTICAL: 1" = 20'	VERTICAL: 1" = 20'

BAUER PARKWAY IMPROVEMENT : 750.00 FT  
 VICTORY LANE IMPROVEMENTS: 305.00 FT  
 TOTAL LENGTH OF IMPROVEMENTS = 1,055.00 FT = 0.20 MILES

**CALL J.U.L.I.E.**  
 BEFORE YOU DIG  
 1-800-892-0123  
 HARLEM TWP (T45N- R1E)  
 SEC. - 25 & 36

ADT: 12,900 (2016) 2% TRUCKS  
 MINOR ARTERIAL  
 DESIGN SPEED: 45 MPH  
 3R POLICY



THESE PLANS PREPARED BY:  
 WINNEBAGO COUNTY HIGHWAY DEPARTMENT

APPROVED 11/16/17 2017  
*[Signature]*  
 WINNEBAGO COUNTY ENGINEER

APPROVED 11-15-17 2017  
*[Signature]*  
 PRESIDENT, VILLAGE OF MACHESNEY PARK

PASSED 11/17 2017  
*[Signature]*  
 DISTRICT 2 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
 BASED ON LIMITED  
 REVIEW 11/17 2017  
*[Signature]*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

# GENERAL NOTES

## GENERAL NOTES AND CONDITIONS

The scale shown on the drawings applies only to the full size plans and not reduced size plans.

The Contractor shall field verify the elevations of the benchmarks prior to commencing work. The Contractor shall also field verify location, elevation and size of existing work. The contractor shall field verify horizontal control by referencing shown coordinates to known property lines. Notify the Engineer of discrepancies in either vertical or horizontal control prior to proceeding with work.

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as AutoDesk Civil 3D CADD files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the Winnebago County Highway Department at (815)-319-4000 to request these files.

Where section or subsection monuments are encountered, the Engineer shall be notified before such monuments are removed. The Contractor shall protect and carefully preserve all property markers, monuments and right-of-way pins until the owner, an authorized surveyor, or agent has been witnessed or otherwise referenced their location.

## UTILITIES

Exact horizontal and vertical locations of existing utilities shall be determined by the Contractor at no additional cost to the contract. Locations and depths shown on these plans are only schematic representation.

Abandoned underground utilities that conflict with construction or have the potential for creating future problems shall be disposed of outside the limits of the right-of-way according to Article 202.03 of the standard specifications and as directed by the Engineer. This work will not be paid for separately but shall be considered incidental no additional compensation will be allowed.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.39 of the Standard Specifications. The phone number for J.U.L.I.E. is 800-892-0123. The utilities located within the project limits or immediately adjacent to the project construction limits are members of J.U.L.I.E.

**AT&T**  
c/o Hector Garcia  
2408 8th Avenue  
Rockford, IL 61108  
(630) 573-5465

**Village of Machesney Park**  
c/o Chad Hunter  
300 Machesney Road  
Machesney Park, IL 61115  
(815) 877-5432

**Commonwealth Edison**  
c/o Adam Sadkowski  
123 Energy Avenue  
Rockford, IL 61109  
(815) 263-3123

**Nicor Gas**  
c/o Bruce Koppang  
1844 Ferry Road  
Naperville, IL 60563  
(630) 388-3046

**Comcast**  
c/o Robert Stoll  
4450 Kishwaukee Street  
Rockford, IL 61109  
(224) 229-5849

**North Park Public Water District**  
c/o Ed Rice  
1350 Turret Drive, Machesney Park  
IL 61115  
(779)-210-3079

**Illinois Fiber Resources Group**  
c/o Lance Sandy  
(815)-753-6075

**Rock River Water Reclamation**  
c/o Christopher T. Baer, P.E.  
3333 Kishwaukee Street  
P.O. Box 7480  
Rockford, IL 61109  
(815) 387-7660

## GRADING, & EARTH EXCAVATION NOTES

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The final top four inches of soil in any right-of-way area disturbed by the Contractor must be a cohesive soil capable of supporting vegetation.

## GRADING, EARTH EXCAVATION, & LANDSCAPING

The Contractor shall use care in grading or excavating near any and all existing items which are not indicated to be removed. Any damage done to existing items by the Contractor's operations shall be repaired at no additional expense to the owner.

Special attention is brought to article 202.03 of the standard specification. The contractor shall conduct the earth excavation operation in such a way as to minimize the mixing of clean soil with construction debris. If the contractor chooses to dispose of excess soil, construction and demolition debris, or waste at an IEPA regulated facility, the contractor shall be responsible to perform all necessary testing, documentation, and correspondence to comply with all IEPA requirements. The cost of complying with IEPA requirements shall not be paid for separately, but shall be considered incidental to excavation item.

## PAVING AND DRAINAGE NOTES

The Contractor is responsible for maintaining positive drainage at the conclusion of each working day.

The area to be primed shall be limited to that which can be covered with HMA the same day, unless otherwise permitted by the Engineer.

All sidewalk and public areas must be constructed in accordance with current ADA, Illinois Handicap Accessibility and any applicable local ordinances. All Type A Disabled Ramps must have barrier curbs on the sides of the ramps as shown on Highway Standard 424011. The barrier curbs shall be constructed according to the detail of side curb on Highway Standard 424011.

The Contractor shall place temporary hot-mix asphalt tapers along all sides of the utility structures protruding above the milled surface. The temporary tapers shall extend 2' outside of the castings, except for the approach side to traffic shall have a 4' taper length. Hot-mix asphalt meeting the approval of the Engineer shall be used, no cold millings will be allowed. The cost of the material, placement, maintenance, removal and disposal of said work will be included in the Pay Item for Hot-Mix Asphalt Surface Removal.

Where proposed construction abuts existing appurtenances, a saw cut shall be made to achieve a neat butt joint. Saw cutting shall be done in accordance with the applicable portions of Section 442 of the Standard Specifications and as directed by the Engineer. All saw cutting, including but not limited to, saw cuts for removals, patching, butt joints, and construction staging shall not be paid for separately, but shall be considered as included in the various items for removal.

All existing signs, light poles and utility poles/structures which interfere with construction operation and not noted for disposal shall be removed and reset by the contractor at his own expense as shown on the plans or as directed by the Engineer. Any damage to these items shall be repaired or replaced by the contractor at his own expense to the satisfaction of the owner. Any signs not to be reset shall be salvaged to Winnebago County.

The Contractor, at his own expense, shall relocate and replace to the satisfaction of the Engineer, all mailboxes in accordance with Article 107.20 of the Standard Specifications. Emergency access, garbage pick-up, and mail service shall be maintained at all times. It will be the contractor's responsibility to notify residents when access to their driveways will be temporarily closed due to curb and gutter and / or driveway replacement. The Contractor shall distribute notices provided by the County to residents. Every effort shall be made to accommodate access to these properties including knocking on doors when driveways are about to be closed.

## CONSTRUCTION LAYOUT, ELECTRICAL SERVICE & PRE-CONSTRUCTION CONFERENCE

The Contractor shall be responsible for collecting and maintaining an electronic log of all stakeout survey that is performed on the job, either by him / her or any sub-contractor performing the stakeout. Upon request, all logs shall be submitted to the County. No additional compensation will be allowed for this work, but shall be considered included in the cost for CONSTRUCTION LAYOUT.

The Contractor shall coordinate with ComEd all work associated service installation Type "A". All costs associated with energizing the new controller including ComEd fees for transformer upgrades/changes shall be considered incidental the Service Installation Type: "A"

The following items will be discussed in the pre-construction conference and related information will be distributed;

1. Organization arrangement of Contractors forces and personnel, and those of subcontractors, materials suppliers and Engineer.
2. Construction Schedules, including sequence of critical work.
3. Distribution of Contract Documents
4. Procedure for the submission of Shop Drawings and other data for review to the Engineer.
5. Rules and regulations governing performance of the Work; and
6. Procedure for safety and first aid, security, quality control, house keeping, and related matters.



## LEGEND

EXISTING	PROPOSED	DESCRIPTION
		TREE
		UTILITY POLE
		UNDERGROUND ELECTRIC LINE
		OVERHEAD UTILITY LINE
		ELECTRIC PEDESTAL
		GAS LINE
		GAS VALVE
		TELEPHONE LINE
		TELEPHONE PEDESTAL
		TELEPHONE VAULT
		WATER LINE
		WATER VALVE
		FIRE HYDRANT
		SANITARY MANHOLE
		SANITARY SEWER
		STORM SEWER INLET SPECIAL, 1
		STORM SEWER INLET SPECIAL, 2
		STORM SEWER MANHOLE
		GUARD RAIL
		CONCRETE END SECTION
		METAL END SECTION
		PROPERTY LINE
		RIGHT-OF-WAY
		DITCH FLOW
		INLET PROTECTION
		PERIMETER EROSION BARRIER
		TEMPORARY DITCH CHECK
		TEMPORARY ROCK DITCH CHECK
		SIGN
		LUMINAIRE
		SIGNAL POST
		MAST ARM
		HANDHOLE
		HEAVY DUTY HANDHOLE
		DOUBLE HANDHOLE
		SIGNAL CONTROLLER

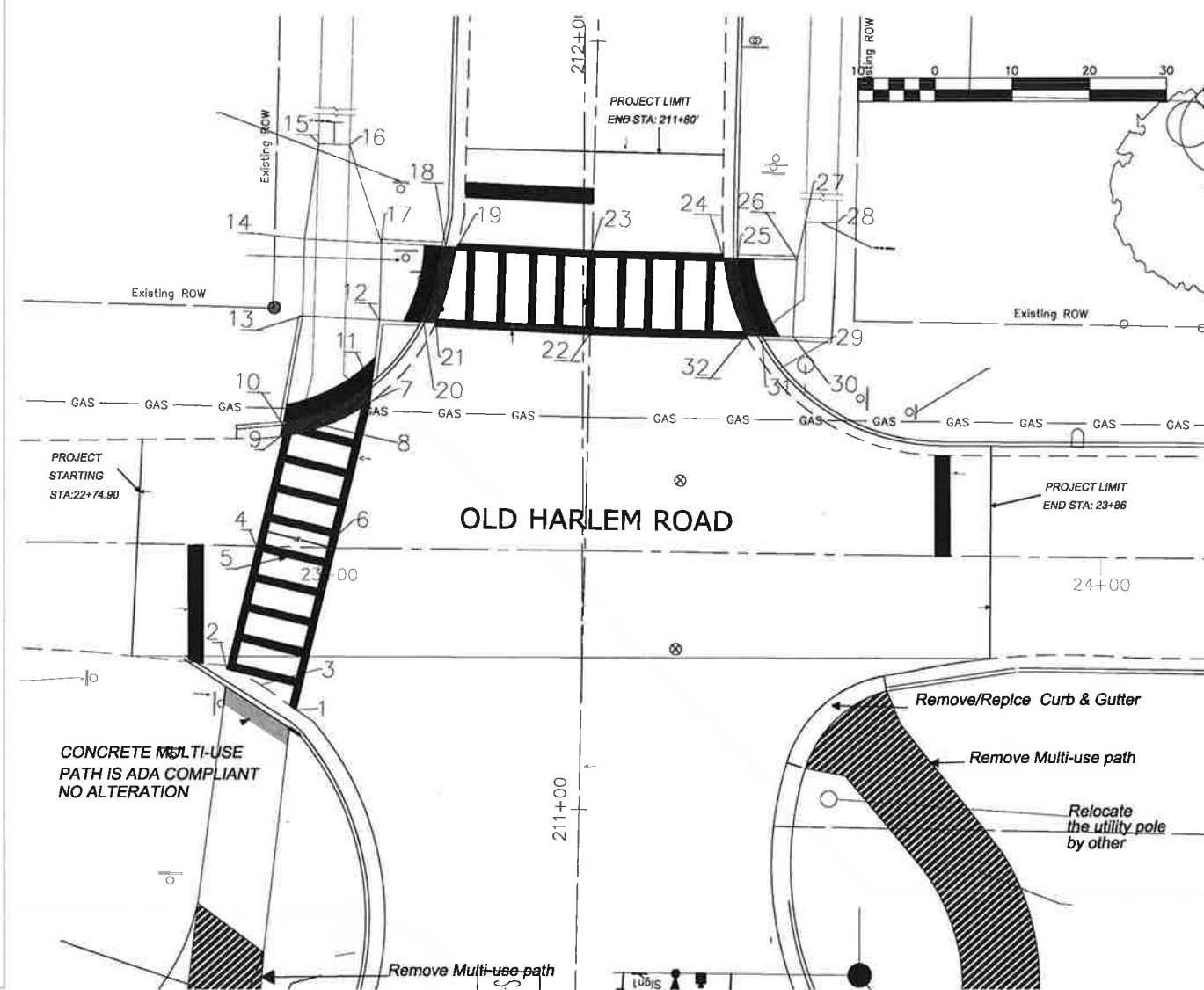
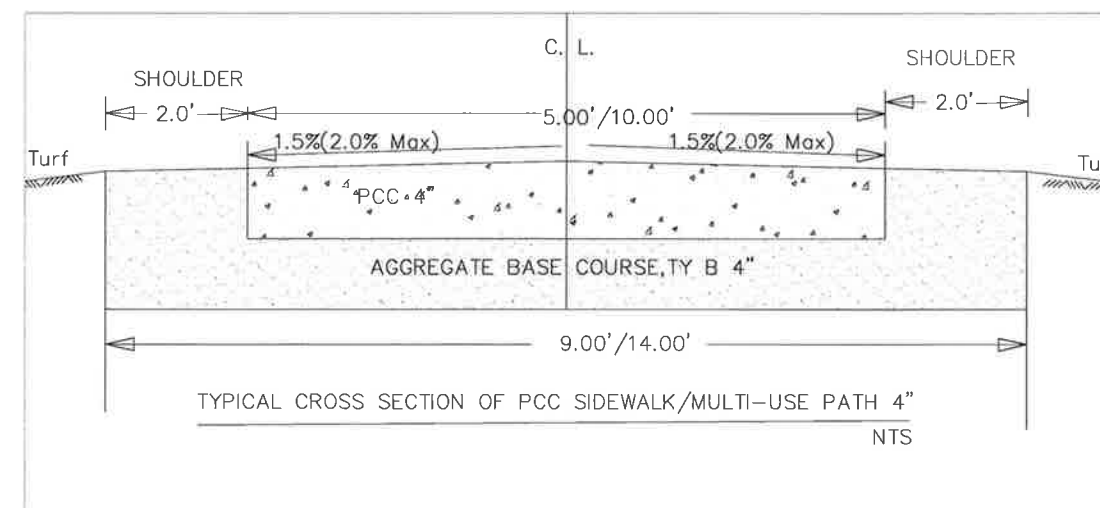


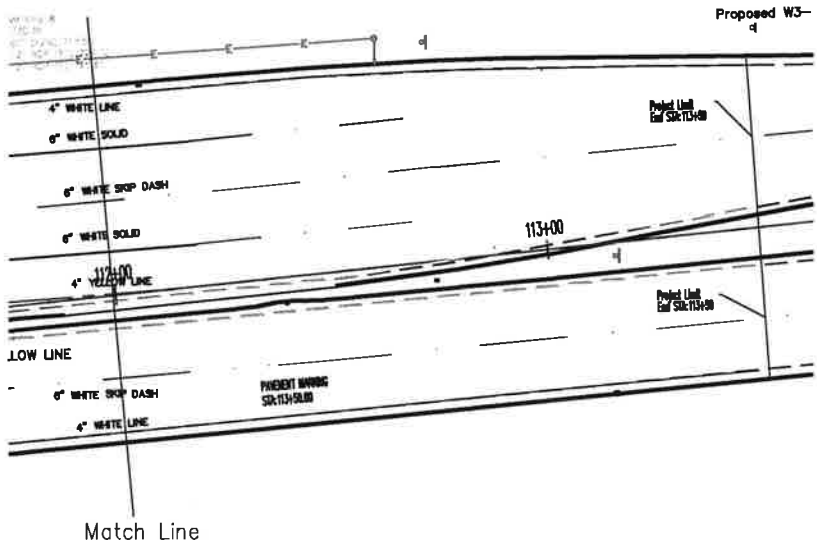
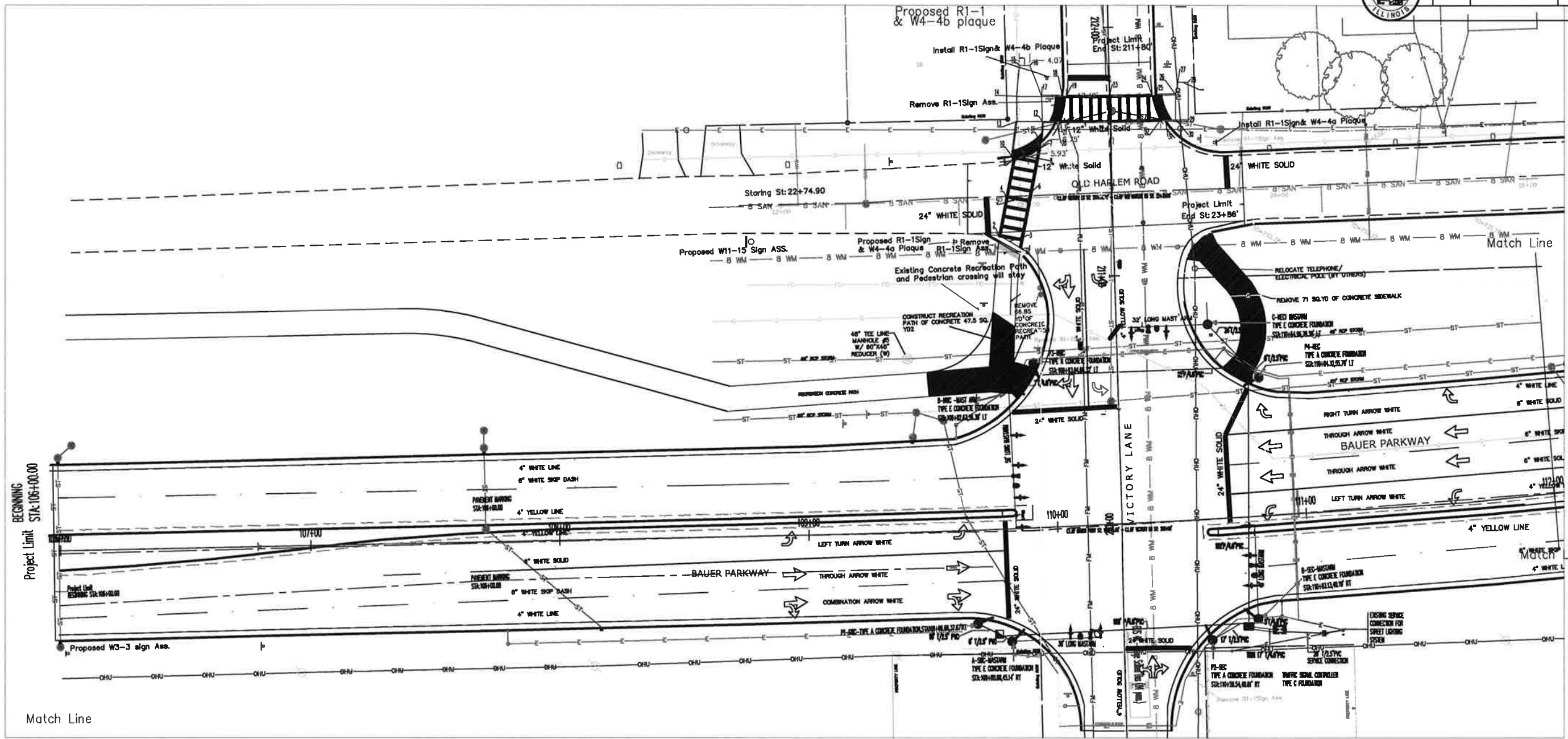


**SIDEWALK COMPLIANCE**

POINT	STATION	OFFSET	ELEVATION	POINT	SIDEWALK DESCRIPTION	DISTANCE	ELEVATION	(%)	ACCEPTABLE	
1	211+12.17	36.82 L	731.52	1						
2	211+17.82	46.03 L	731.65	2	1	Sidewalk cross slope	10.00	0.13	1.30	0.0 % to 2.00%
3	211+15.28	41.69 L	731.55	3	5	Cross walk running slope	18.70	0.37	1.98	0.5 % to 5.00 %
				3	2	Sidewalk cross slope	5.25	0.10	1.90	0.0 % to 2.00%
4	211+33.26	43.03 L	731.92	4	2	Cross walk running slope	16.00	0.27	1.69	0.5 % to 5.00%
5	211+33.23	37.51 L	731.87	6	1	Cross walk running slope	20.10	0.37	1.84	0.5 % to 5.00 %
6	211+33.25	32.69 L	731.85	6	4	Sidewalk cross slope	10.50	0.08	0.76	0.0 % to 2.00%
7	211+52.42	28.22 L	731.79	7	8	Sidewalk cross slope	6.75	0.03	0.44	0.0 % to 2.00%
8	211+49.11	34.11 L	731.82	8	5	Cross walk running slope	16.23	0.05	0.31	0.5 % to 5.00 %
				8	9	Sidewalk cross slope	5.93	0.05	0.84	0.0 % to 2.00%
9	211+47.53	39.83 L	731.87	9	4	Cross walk running slope	14.65	0.05	0.34	0.5 % to 5.00 %
10	211+49.11	39.46 L	731.85	10	13	Ramp Running slope	14.34	0.18	1.26	0.5% to 8.30%
				10	9	Landing/Turning Space	1.55	0.02	1.29	0.1% to 2.00%
11	211+54.42	28.05 L	731.81	11	12	Ramp Running slope	8.70	0.18	2.07	0.5% to 8.30%
				11	7	Landing/Turning Space	2.03	0.02	0.99	0.1% to 2.00%
12	211+63.09	27.28 L	731.99	12	13	Landing/Turning Space	10.00	0.04	0.40	0.1% to 2.00%
13	211+63.36	37.29 L	732.03	13	14	Landing/Turning Space	10.00	0.02	0.20	0.1% to 2.00%
14	211+73.37	32.27 L	732.05	14	17	Landing/Turning Space	10.00	0.00	0.00	0.1% to 2.00%
15	211+85.83	35.75 L	732.14	15	14	Sidewalk cross slope	12.48	0.09	0.72	0.0 % to 2.00%
16	211+85.72	31.75 L	732.14	16	15	Sidewalk cross slope	4.00	0.00	0.00	0.0 % to 2.00%
17	211+73.09	27.28 L	732.05	16	17	Sidewalk cross slope	12.48	0.09	0.72	0.0 % to 2.00%
				12	17	Landing/Turning Space	10.00	0.06	0.60	0.1% to 2.00%
18	211+72.87	18.96 L	731.46	17	18	Ramp Running slope	8.32	0.59	7.09	0.5% to 8.30%
19	211+72.83	17.44 L	731.43	19	18	Landing/Turning Space	1.52	0.03	1.97	0.1% to 2.00%
20	211+62.93	21.55 L	731.66	20	12	Ramp Running slope	5.75	0.33	5.74	0.5% to 8.30%
				20	18	Sidewalk cross slope	10.28	0.20	1.95	0.0 % to 2.0%
21	211+62.89	19.94 L	731.63	21	20	Landing/Turning Space	1.61	0.03	1.86	0.1% to 2.00%
				21	19	Sidewalk cross slope	10.25	0.20	1.95	0.0 % to 2.00%
22	211+61.85	0.09 L	731.79	22	21	Cross walk running slope	19.87	0.16	0.81	0.5 % to 5.00 %
23	211+72.85	0.00	731.83	23	19	Cross walk running slope	17.42	0.40	2.30	0.5 % to 5.00 %
				23	22	Sidewalk cross slope	10.40	0.04	0.38	0.0 % to 2.0%
24	211+72.28	17.07 R	731.36	24	23	Cross walk running slope	17.10	0.47	2.75	0.5 % to 5.00 %
25	211+72.27	18.85 R	731.38	25	24	Landing/Turning Space	1.80	0.02	1.11	0.1% to 2.00%
26	211+72.72	25.33 R	731.77	26	25	Ramp Running slope	7.72	0.39	5.05	0.5% to 8.30%
				26	30	Landing/Turning Space	9.98	0.02	0.20	0.1% to 2.00%
27	211+77.23	27.58 R	731.86	27	26	Landing/Turning Space	5.12	0.09	1.76	0.1% to 2.00%
28	211+77.21	31.60 R	731.84	27	28	Sidewalk cross slope	4.00	0.02	0.50	0.0 % to 2.0%
29	211+62.21	31.30 R	731.85	29	28	Landing/Turning Space	15.00	0.01	0.07	0.1% to 2.00%
30	211+62.24	26.30 R	731.75	30	29	Landing/Turning Space	5.00	0.10	2.00	0.1% to 2.00%
31	211+62.25	22.23 R	731.55	31	30	Ramp Running slope	4.10	0.20	4.88	0.5% to 8.30%
				31	25	Sidewalk cross slope	10.53	0.17	1.61	0.0 % to 2.00%
32	211+62.26	20.22 R	731.56	32	31	Landing/Turning Space	2.00	0.01	0.50	0.1% to 2.00%
				32	24	Sidewalk cross slope	10.45	0.20	1.91	0.0 % to 2.00%
				32	22	Cross walk running slope	20.32	0.23	1.13	

NOTE: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL AS-BUILT SLOPES MEET THE LEGAL REQUIREMENT AND COMPLY WITH ADA LAW

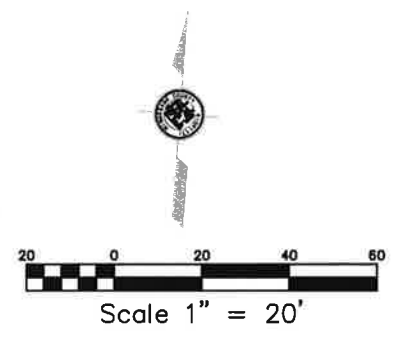




**NOTE:**  
 THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL CLEARANCES OF ALL OVERHEAD UTILITIES PRIOR TO THE PLACEMENT OF ANY SIGNAL FOUNDATIONS TO ENSURE THAT POLES, MAST ARMS AND SIGNAL HEADS WILL NOT CONFLICT. ANY COSTS ASSOCIATED WITH RESOLVING CONFLICTS AFTER THE PLACEMENT OF FOUNDATIONS DUE TO THE CONTRACTOR'S FAILURE TO VERIFY CLEARANCES SHALL BE BORN BY THE CONTRACTOR AND NO ADDITION TO THE CONTRACT WILL BE ALLOWED. IF DURING THE PROCESS OF VERIFYING CLEARANCES IT IS DETERMINED THAT THERE WILL BE A CONFLICT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE A RESOLUTION TO THE CONFLICT.  
 THE CONTRACTOR SHALL COORDINATE THE TURN ON OF THE PROPOSED SIGNALS WITH THE ENGINEER.

**TRAFFIC SIGNAL LEGEND PROPOSED**

- CONTROLLER
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE
- HANDHOLE
- DOUBLE HANDHOLE
- EMERGENCY VEHICLE SYSTEM DUAL DETECTOR
- SERVICE INSTALLATION
- CONFIRMATION BEACON
- WOOD POLE
- CONDUIT IN TRENCH OR PUSHED
- COMMON TRENCH
- LUMINAIRE W/MAST ARM
- VIDEO DETECTOR CAMERA



# SUMMARY OF SIGNAL QUANTITIES

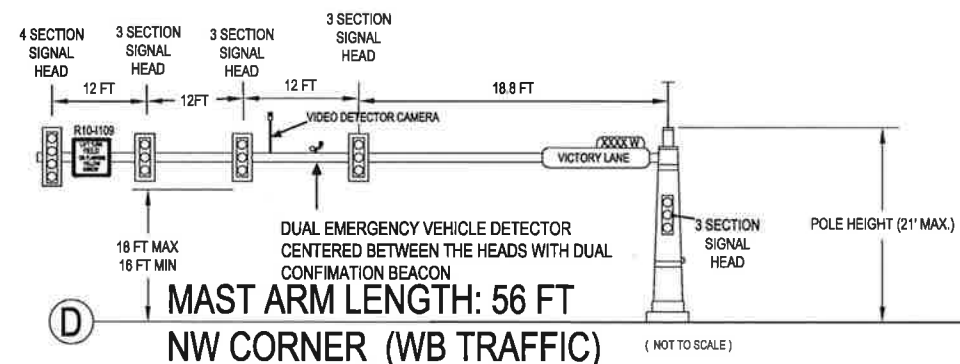
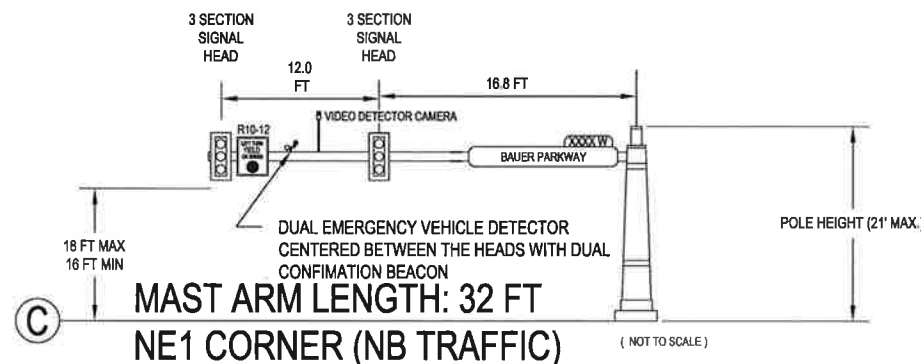
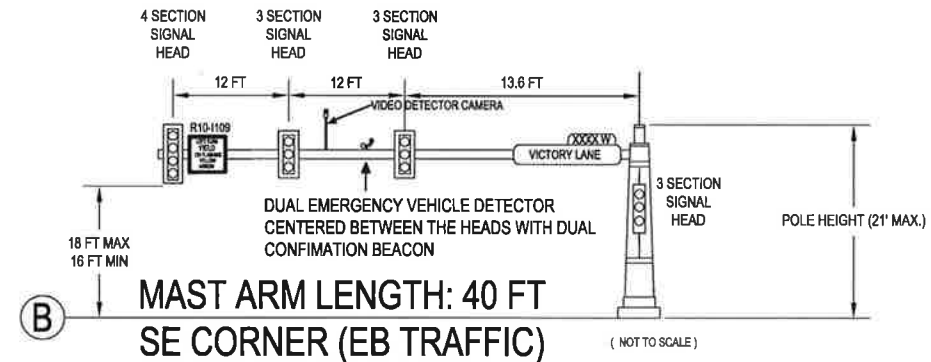
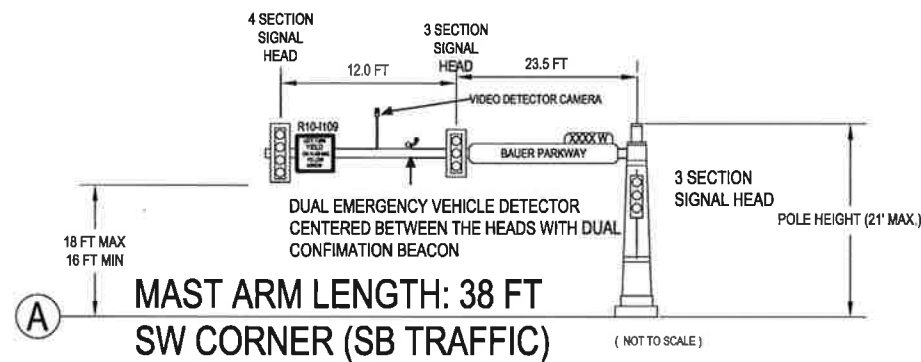
ITEM NO	ITEM CODE NO	ITEM-PARTICULARS	UNITS	QUANTITY (0021)
1	42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	428.00
2	44000500	COMBINATION OF CURB AND GUTTER REMOVAL	FOOT	50.00
3	44000600	SIDEWALK REMOVAL	SQ FT	246.00
4	60605000	COMBINATION OF CURB AND GUTTER, TYPE B 6.24	FOOT	30.00
5	67100100	MOBILIZATION	LSUM	0.80
6	72000100	SIGN PANEL - TYPE 1	SF	26.23
7	72000200	SIGN PANEL - TYPE 2	SF	42.00
8	78001100	PAINT PAVEMENT MARKING-LETTERS AND SYMBOL	SQ FT	282.50
9	78001110	PAINT PAVEMENT MARKING, LINE 4"	FOOT	3375.00
10	78001130	PAINT PAVEMENT MARKING, LINE 6"	FOOT	1050.00
11	78001180	PAINT PAVEMENT MARKING, LINE 24"	FOOT	165.00
12	80500200	SERVICE INSTALLATION, TYPE A	EA	1.00
13	81028360	UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FT	100.00
14	81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FT	51.00
15	81028240	UNDERGROUND CONDUIT, GALVANISED STEEL, 4" DIA.	FT	294.00
16	81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EA	3.00
17	81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EA	1.00
18	85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EA	1.00
19	86200200	UNINTERRUPTABLE POWER SUPPLY, STANDARD	EA	1.00
20	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FT	2,953.00
21	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FT	690.00
22	87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3 C	FT	28.00
23	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FT	440.00
24	87800100	CONCRETE FOUNDATION, TYPE A	FT	12.00
25	87800150	CONCRETE FOUNDATION, TYPE C	FT	3.00
26	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FT	35.00
27	87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FT	21.00
28	88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3 SECTION, BRACKET MOUNTED	EA	4.00
29	88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3 SECTION, MAST ARM MOUNTED	EA	8.00
30	88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4 SECTION, BRACKET MOUNTED	EA	3.00
31	88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4 SECTION, MAST ARM MOUNTED	EA	3.00
32	88200510	TRAFFIC SIGNAL BACKPLATE REFL.	EA	11.00
33	X0327980	PAVEMENT MARKING REMOVAL-WATER BLASTING	SQ FT	672.00
34	X7010216	TRAFFIC CONTROL AND PROTECTION (SPEC AIL)	LSUM	0.50
35	X7240205	REMOVE SIGN COMPL.	EACH	2.00
36	X7330064	SIGN SUPPORT SPL.	EACH	2.00
37	X8750005	TRAFFIC SIGNAL POST, 14 FT, (SPECIAL)	EACH	4.00
38	X8771200	STEEL MAST ARM ASSEMBLY AND POLE 32 FT, (SPECIAL)	EACH	1.00
39	X8771230	STEEL MAST ARM ASSEMBLY AND POLE 38 FT, (SPECIAL)	EACH	1.00
40	X8771240	STEEL MAST ARM ASSEMBLY AND POLE 40 FT, (SPECIAL)	EACH	1.00
41	X8771330	STEEL MAST ARM ASSEMBLY AND POLE 56 FT, (SPECIAL)	EACH	1.00
42	X8870300	EMERGENCY VEHICLE PRIORITY SYSTEM	EA	1.00
43	Z0013798	CONSTRUCTION LAYOUT	LSUM	0.50
44	Z0033070	VIDEO VEHICLE DETECTION SYSTEM, 4 CAMERAS	EA	1.00

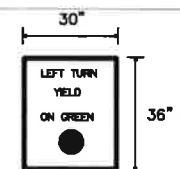
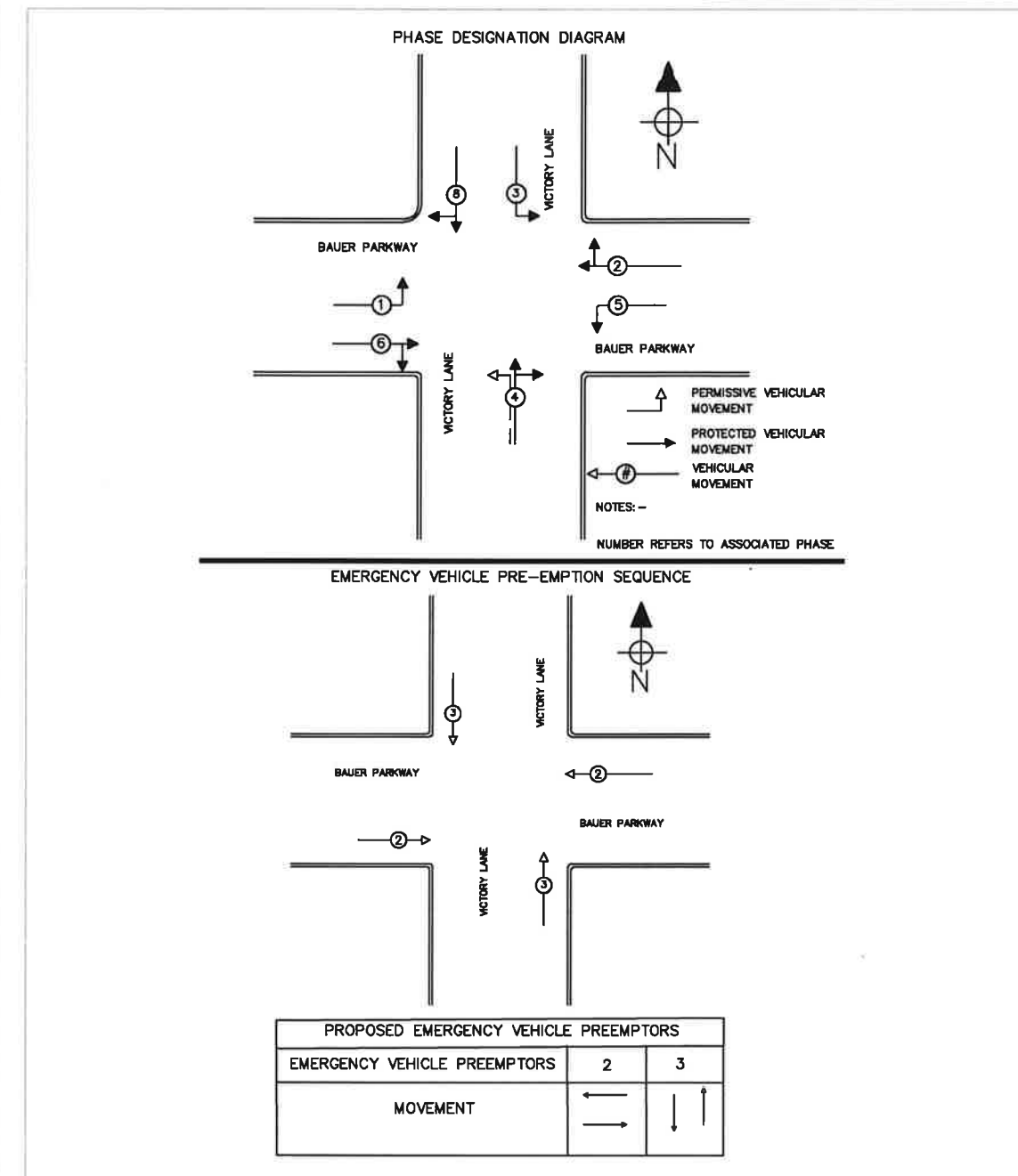
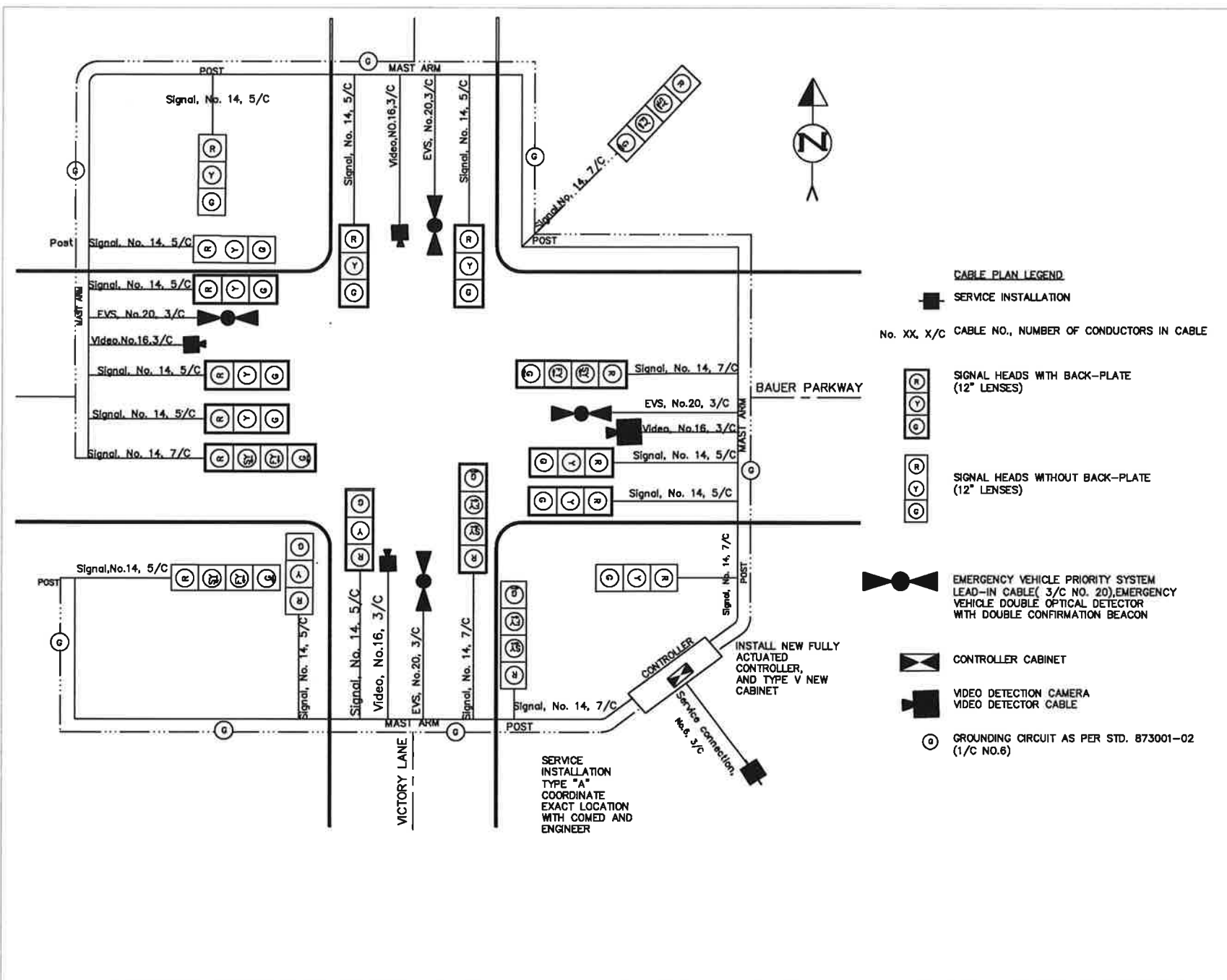
## GENERAL NOTES

- CALL J. U. I. L. E. AT (800) 892-0123 AT LEAST 48 HRS PRIOR TO BEGINNING CONSTRUCTION. ALL UTILITIES SHALL BE LOCATED IN THE FIELD AND THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
- ALL SIGNING, STRIPING, TRAFFIC SIGNALS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) CURRENT EDITION AND TO THE STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION. ALL BACKPLATES SHALL HAVE A 3" YELLOW RETROREFLECTIVE STRIP PLACED ALONG THE PERIMETER OF THE FACE OF THE SIGNAL BACKPLATE.
- MAST ARM ASSEMBLIES AND TRAFFIC SIGNAL POSTS SHALL BE OF MILLERBERND BRAND. SIGNAL HEADS SHALL BE POLYCARBONATE WITH 12" LENSES. THE EXACT LOCATION OF TRAFFIC SIGNAL MAST ARM ASSEMBLY POSTS/SIGNAL POSTS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE PROPOSED CONTROLLER CABINET WILL BE LOCATED IN THE SOUTHEAST QUADRANT OF THE INTERSECTION. THE CONTRACTOR SHALL COORDINATE WITH COMED ALL WORK ASSOCIATED WITH SERVICE INSTALLATION, TYPE A. ALL COSTS ASSOCIATED WITH ENERGIZING THE NEW CONTROLLER, INCLUDING ANY COMED FEES FOR TRANSFORMER UPGRADES / CHANGES SHALL BE CONSIDERED INCIDENTAL TO THE SERVICE INSTALLATION, TYPE A.
- THE EMERGENCY VEHICLE PRIORITY SYSTEM (EVPS) SHALL BE THE "TOMAR/OPTRONX OPTICAL PRE-EMPTION SYSTEM". THIS TRAFFIC SIGNAL INSTALLATION SHALL INCLUDE DUAL EMERGENCY VEHICLE DETECTORS WITH DUAL CONFIRMATION BEACONS FOR EACH ROADWAY. CONTACT BROWN TRAFFIC PRODUCTS AT 1-800-888-7078 FOR FURTHER INFORMATION IN REGARDS TO THE MANUFACTURER'S INSTALLATION REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE WRITTEN CONFIRMATION FROM THE JURISDICTIONAL EMERGENCY AGENCY (NORTH PARK FIRE PROTECTION DISTRICT (815) 636-3051) THAT THE SYSTEM IS COMPATIBLE WITH EXISTING FIRE DISTRICT EMERGENCY EQUIPMENT PRIOR TO INSTALLATION. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS FOR EVPS.
- THE FOLLOWING VIDEO DETECTION SYSTEMS ARE APPROVED FOR USE IN DISTRICT 2: 1) ITERIS VANTAGE EDGE 2 (4 CAMERA SYSTEM), AND 2) AUTOSCOPE SOLO PRO (4 CAMERA SYSTEM). SEE SPECIAL PROVISIONS FOR ADDITIONAL VIDEO DETECTION SYSTEM REQUIREMENTS. CONTACT BROWN TRAFFIC PRODUCTS AT 1-800-888-7078 FOR FURTHER INFORMATION REGARDING THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
- PROVIDE TWO CONDUITS FROM THE CONTROLLER TO THE ADJACENT SERVICE POLE. ONE 2" CONDUIT SHALL BE USED FOR POWER AND ONE 1" CONDUIT SHALL BE RESERVED FOR THE TELEPHONE SERVICE.
- SIGN PANELS FOR STREET NAMES SHALL BE MOUNTED AS SHOWN ON STANDARD 877011 AND 720016.
- FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD 878001.
- ALL SIGNAL CABLE SHALL BE MARKED WITH ELECTRIC TAPE FOR IDENTIFICATION PURPOSES. THIS IDENTIFICATION SHALL BE DONE AT THE CONTROLLER AND IN THE SIGNAL HEAD.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR TRAFFIC SIGNAL POSTS CONSISTENT WITH I.D.O.T. PRE-APPROVED DESIGNS FOR LOADINGS REPRESENTED ON PLANS.

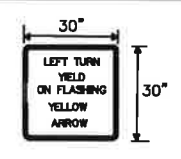
## MAST ARM EQUIPMENT MOUNTING DETAIL

NO SCALE

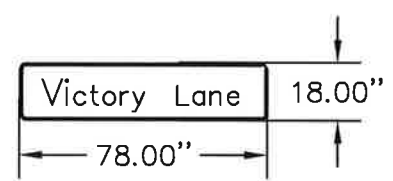




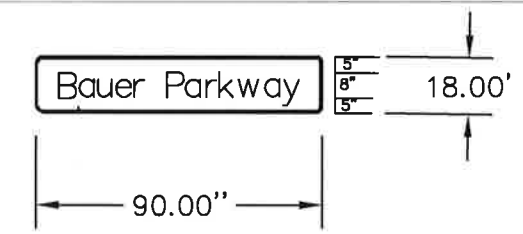
R10-12 36"X30" SIGN  
SIGN PANEL(AREA: 7.50 SQ.FT.)TYPE 1  
Furnish and Install One(1) Each Sign  
Install On Mast-arm for NB Traffic



R10-1109 30"X30" SIGN  
SIGN PANEL(AREA: 6.25 SQ.FT.)TYPE 1  
Furnish and Install Three(3) Each Sign  
Install On Mast-arm for EB, WB & SB Traffic



SIGN PANEL-TYPE 2  
Furnish and Install Two(2) Each Sign



SIGN PANEL-TYPE 2  
Furnish and Install Two(2) Each Sign