

# WATER MAIN IMPROVEMENTS

WOLF RD AND 183RD ST  
ORLAND PARK, ILLINOIS

MAYOR - DANIEL J. McLAUGHLIN

## VILLAGE TRUSTEES

KATHLEEN M. FENTON  
BRAD S. O'HALLORAN  
JAMES V. DODGE

EDWARD G. SCHUSSLER III  
PATRICIA A. GIRA  
CAROLE GRIFFIN RUZICH



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16634 S. 107TH COURT  
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(708) 226-9281

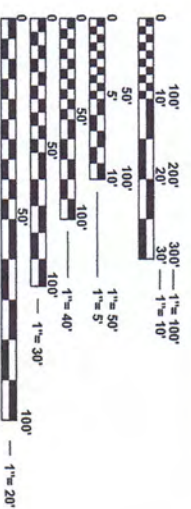
MAI #: 2010.0035  
DATE: 05/09/11



ENGINEER: MATTHEW D. BURGER  
EXP DATE: 11/30/11  
SHT NO: 1-11



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES.



SECTIONS 5 & 6, TOWNSHIP 35N, RANGE 12E  
SECTIONS 31 & 32, TOWNSHIP 36N, RANGE 12E



LOCATION MAP  
NOT TO SCALE

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- 1 COVER SHEET
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14700 S. RAVINNA AVENUE  
ORLAND PARK, IL 60462  
PHONE: (708) 403-6155

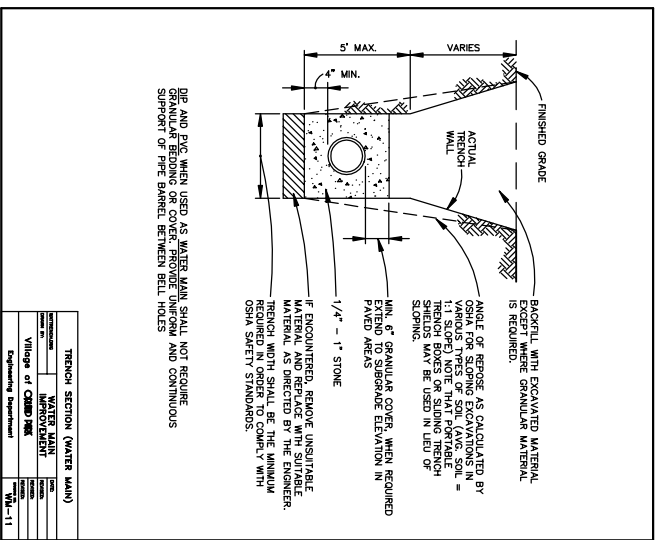
**GENERAL NOTES**

**REGULATIONS, STANDARDS AND SPECIAL PROVISIONS**

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST OR SPECIFIED EDITIONS OF THE FOLLOWING STATE OF ILLINOIS STANDARD SPECIFICATIONS: STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION; STANDARD SPECIFICATIONS FOR WATER MAINS AND WATER SUPPLY LINES; STANDARD SPECIFICATIONS FOR WATER MAINS AND SERVICES; STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; THE "STANDARD SPECIFICATIONS FOR GREATER CHICAGO SEWER PERMIT ORDINANCE", THE "VILLAGE OF ORLAND PARK LAND DEVELOPMENT CODE" AND THE DETAILS INCLUDED IN THE CONTRACT DOCUMENTS. IN THE EVENT OF CONFLICT BETWEEN THESE SPECIFICATIONS AND THE STANDARD SPECIFICATIONS DESIGNED BY THE ENGINEER, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
2. ALL DIMENSIONS AND/OR DIMENSIONS REFER TO EDGE OF PAVEMENT; CENTERLINE OF MANHOLE, PIPE OR STRUCTURE, OR AS SHOWN.
3. ALL CURB RADIUS REFER TO EDGE OF PAVEMENT.
4. ALL AREAS IMPACTED BY OPERATIONS OF THE CONTRACTOR SHALL BE RETURNED TO THE ORIGINAL CONDITION. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO KEEP THEIR OPERATIONS WITHIN THE PROJECT LIMIT LINES AS SHOWN ON THE PLANS.
5. ALL EXCESS OR WASTE MATERIAL RESULTING FROM THE WATER MAIN IMPROVEMENTS SHALL BE DISPOSED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

**UTILITIES**

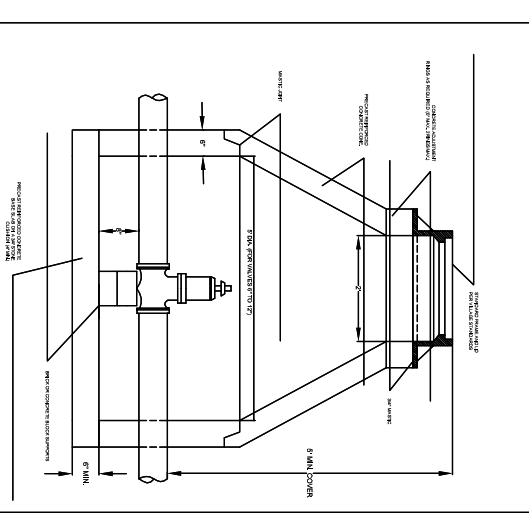
1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, SUCH AS WATER MAINS, SEWERS, GAS LINES, PIPELINES, ETC. SHOWN ON THE PLANS HAVE BEEN OBTAINED FROM THE RECORD DRAWINGS AND FIELD SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL NOT ASSUME RESPONSIBILITY IN THE EVENT THAT UNDISCOVERED UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED, AND THAT THE ACTUAL LOCATION OF THESE UTILITIES MAY BE DIFFERENT FROM THE RECORD DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL UTILITY COMPANIES AND LOCATE THEIR FACILITIES PRIOR TO ANY WORK.
2. "AS-BUILT" DRAWINGS FOR UNDERGROUND UTILITIES SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER. THE PROJECT SHALL BE COMPLETED. ANY CHANGE IN LENGTH OR ALIGNMENT SHALL BE INDICATED ON THE PLANS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AND OPERATOR OF THE DAMAGED UTILITY. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF ORLAND PARK. CALL UTILITY 811 OR (1-800-882-0123) OR GO ON-LINE TO: WWW.ILLINOISCALL.IL.GOV 48 HOURS PRIOR TO CONSTRUCTION.
5. AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK, WITHIN THE BR-CHICAP PIPE LINE COMPANY EASEMENT, CALL MR. MIKE DAVIS AT 708-217-0086.
6. AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK, WITHIN THE UNOVAL PIPE LINE COMPANY EASEMENT, CALL MR. MIKE MUSAL AT 312-697-7221 EXT.



TRENCH SECTION (WATER MAIN)	
DATE	REVISION
02/16/11	PER VILLAGE REVIEW

**WATER MAIN**

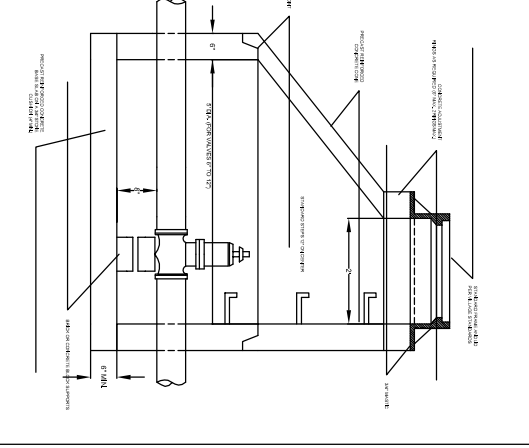
1. ALL DUCTILE IRON PIPE WATERMAIN SHALL BE ENCASED IN A POLYETHYLENE WRAP, INSTALLED IN ACCORDANCE WITH THE PROCEDURE RECOMMENDED BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION.
2. WATER MAIN AND SERVICES SHALL HAVE A MINIMUM BURY DEPTH OF FIVE (5) FEET AND SIX (6) INCHES BELOW FINISHED GROUND SURFACE.
3. ALL WATER MAINS SHALL BE Laid AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER. THE DISTANCE SHALL BE MEASURED FROM THE OUTSIDE OF PIPE TO OUTSIDE OF PIPE. ALL SEWERS CROSSING WATER MAINS SHALL BE Laid TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THE MINIMUM VERTICAL CLEARANCE SHALL BE MEASURED HORIZONTAL AND VERTICAL SEPARATION AS STIPULATED. THE SEWER SHALL BE DESIGNED AND CONSTRUCTED PER WATER MAIN SPECIFICATIONS.



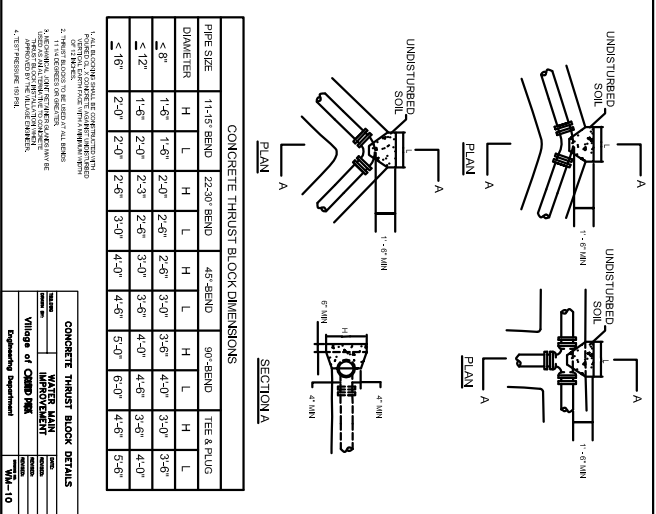
WATER MAIN ENCASEMENT	
DATE	REVISION
02/16/11	PER VILLAGE REVIEW

**MISCELLANEOUS**

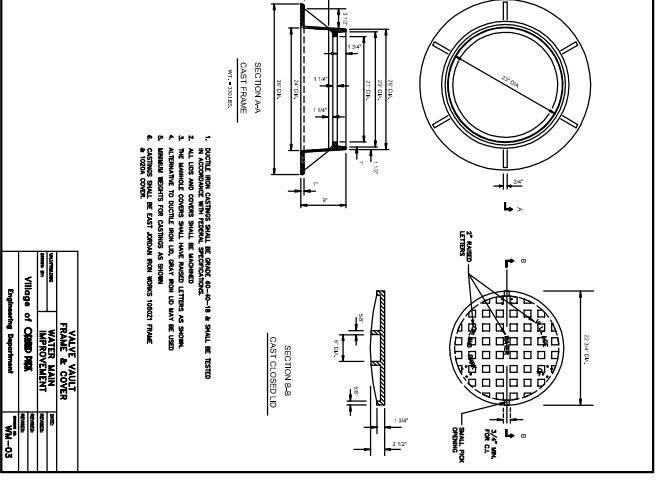
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE COMMENCEMENT OF WORK BEGINS.
2. WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION.
3. THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION.
4. CONTRACTOR IS RESPONSIBLE FOR ALL ASPECT LAYOUT AND SURVEY DURING CONSTRUCTION. THE COST OF LAYOUT AND SURVEY SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE OF THE CONTRACT.
5. ALL WATER MAINS, SANITARY SEWERS AND STORM SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR UNDERGROUND CONSTRUCTION, 9TH EDITION, AND APPLICABLE VILLAGE OF ORLAND PARK REQUIREMENTS.



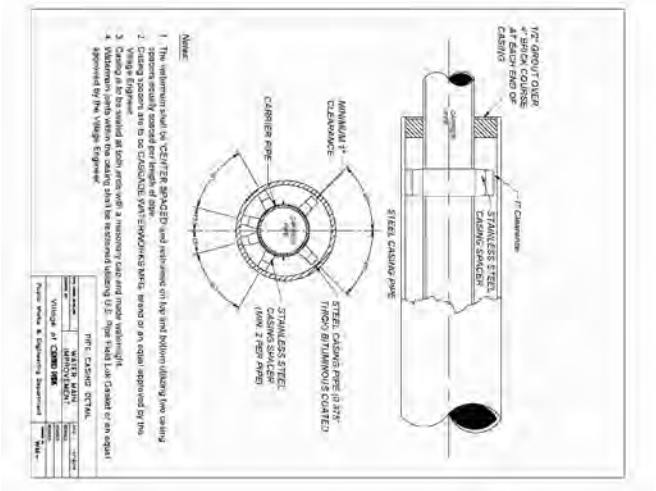
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DATE	REVISION
02/16/11	PER VILLAGE REVIEW



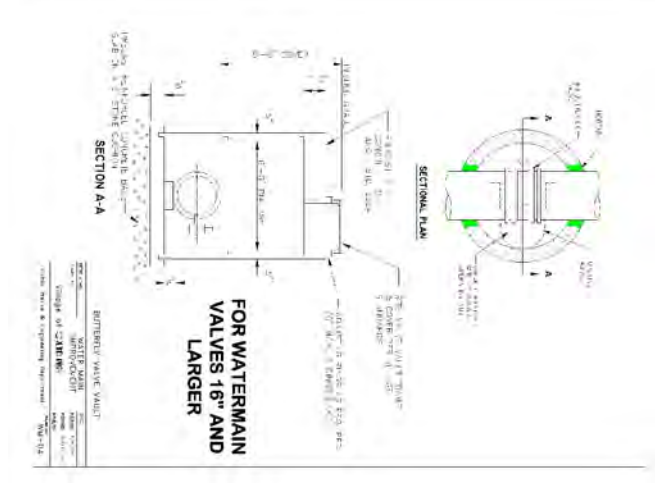
CONCRETE THRUST BLOCK DIMENSIONS					
PIPE SIZE	114° BEND	22.5° BEND	45° BEND	90° BEND	TEE & ELBOW
DIAMETER	H	L	L	H	L
≤ 8"	1'-6"	2'-0"	2'-6"	3'-0"	4'-0"
≤ 12"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"
≤ 16"	2'-0"	2'-0"	3'-0"	4'-0"	4'-0"



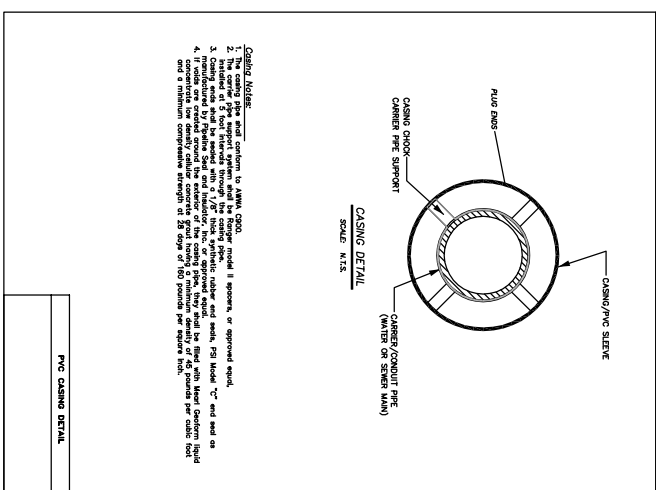
WATER MAIN ENCASEMENT	
DATE	REVISION
02/16/11	PER VILLAGE REVIEW



FOR WATERMAIN VALVES 16\"/>	
DATE	REVISION
02/16/11	PER VILLAGE REVIEW



HYDRANT INSTALLATION	
DATE	REVISION
02/16/11	PER VILLAGE REVIEW



PVC CASING DETAIL	
DATE	REVISION
02/16/11	PER VILLAGE REVIEW

DESIGN BY:	NO.	DATE	REVISIONS	DES. DRW. CHK.	NO.	DATE	REVISIONS	DES. DRW. CHK.
DJL	2	02/16/11	PER VILLAGE REVIEW					

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 ENGINEERS ARCHITECTS  
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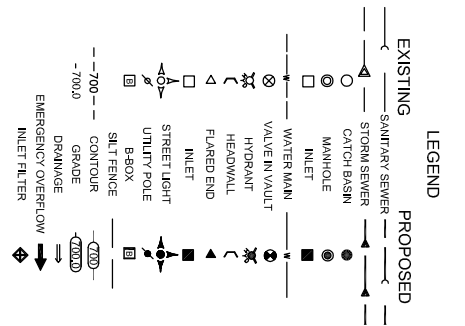
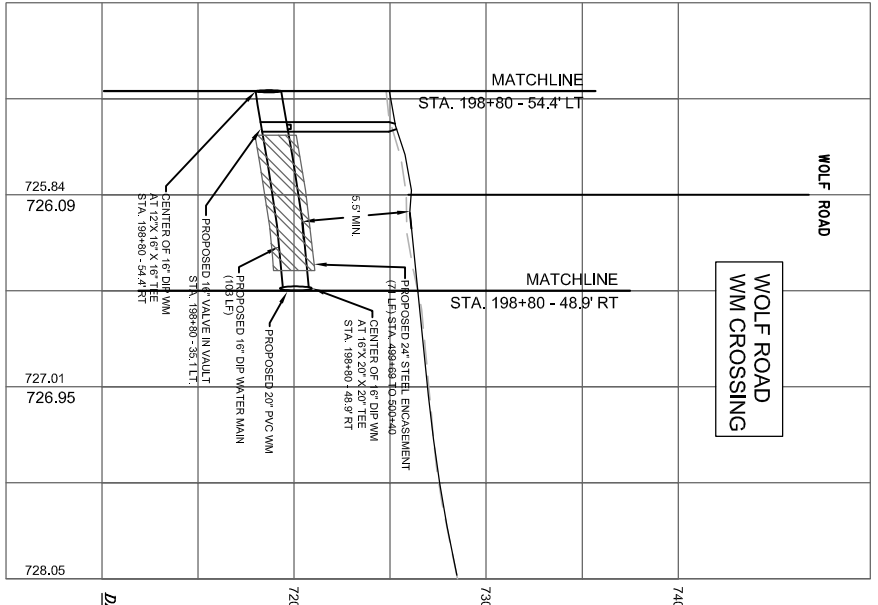
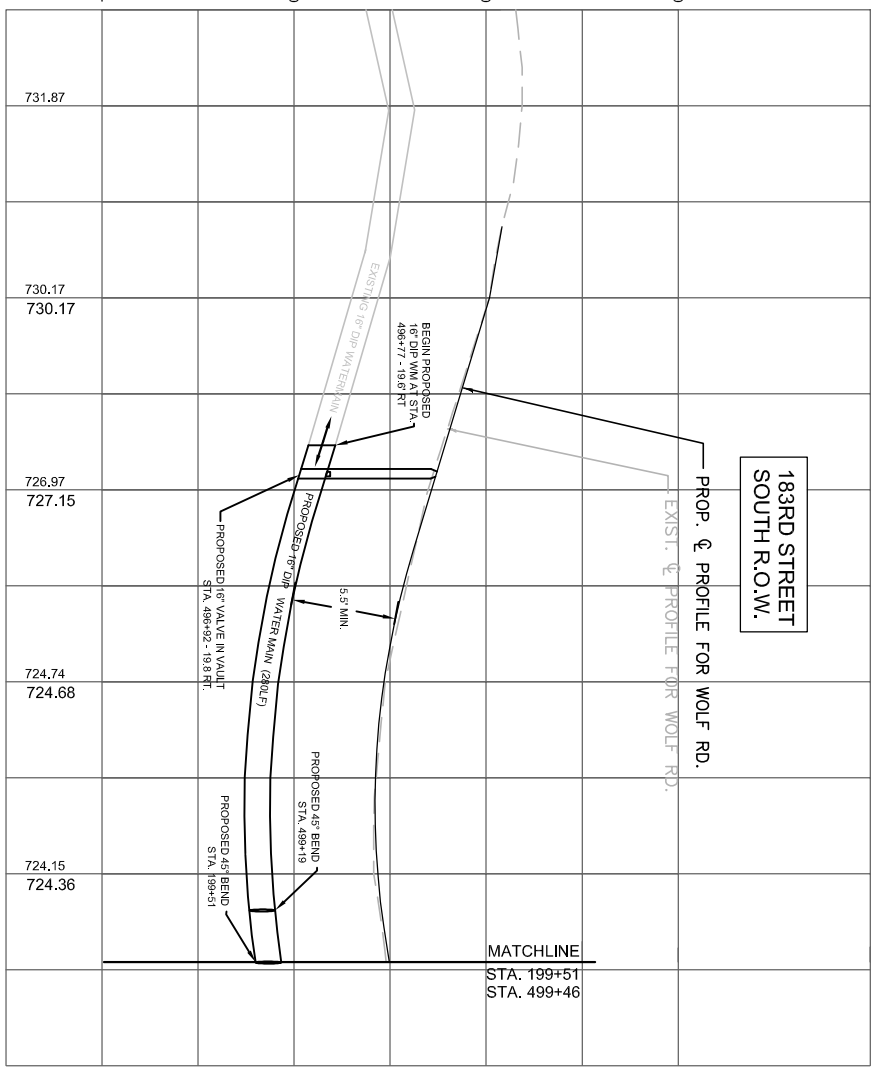
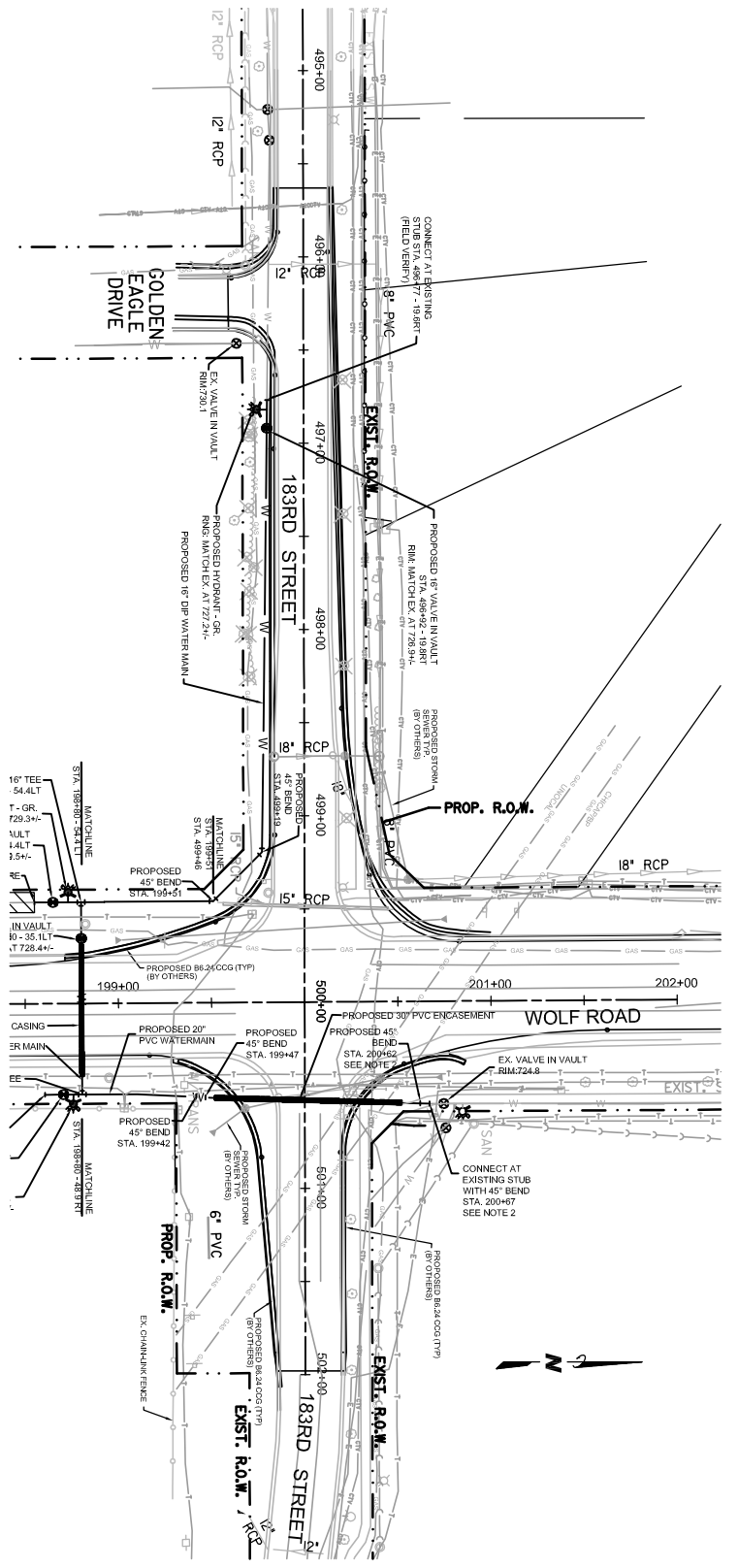
**Village of Orland Park, Illinois**  
 where you want to be

14700 Ravinia Avenue  
 Orland Park, IL 60462  
 Ph. (708)403-6100

INDEX, GENERAL NOTES & DETAILS	SCALE: N/A	DATE: 05/09/11
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**WATER MAIN IMPROVEMENTS**  
**WOLF RD and 183RD ST**

MAI JOB NO. 2010.0034  
 DRAWING NO. 2  
 OF 11 SHEETS



**REMARKS:**  
 1. TOPOGRAPHIC DATA WAS PROVIDED BY DOT.  
 2. 2001-02 & 2001-03 SHALL BE EPOXY COATED FITTINGS WITH STAINLESS STEEL NUTS AND BOLTS.  
 3. REFER TO PLAN VIEW FOR FIREHYDRANT LOCATIONS.

### SUMMARY OF QUANTITIES

CODE NUMBER	PAVING	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE
1	DUCTILE IRON WATER MAIN, 18"	LF	26	
2	DUCTILE IRON WATER MAIN, 18"	LF	454	
3	PVC COORD WATER MAIN, 20"	LF	202	
4	STEEL ENCASUREMENT PIPE, 24"	LF	71	
5	PVC ENCASUREMENT, 30"	LF	100	
6	18" VALVE WITH 12" VALVE	EA	1	
7	60" VALVE WITH 18" VALVE	EA	2	
8	60" VALVE WITH 30" VALVE	EA	1	
9	45" DUCTILE IRON BEND, 15'	EA	2	
10	100% COATED FITTING, 20"	EA	4	
11	12" X 12" X 1/2" DUCTILE IRON TEE	EA	1	
12	20" X 20" X 1/2" DUCTILE IRON TEE	EA	1	
13	PIPE HANGAR	EA	3	
14	REMOVE & REPLACE TOPSOIL, 8"	LSUM	1	
15	STEELING COVER CRIP	LSUM	1	
16	EROSION & SEDIMENTATION CONTROL	LSUM	1	
17	CONCRETE REMOVAL AND REPLENISHMENT	LSUM	1	
18	MODIFICATION	LSUM	1	
19	TYPICAL CORNER	LSUM	1	

\* DENOTES SPECIFIC ITEMS

DESIGN BY:	D.L.J.	NO.	DATE	REVISIONS	DES. DRW. CHK. NO.	DATE	REVISIONS	DES. DRW. CHK.
DRAWN BY:	D.L.J.	1	01-27-11	DIVIDE PLAN & PROFILE VIEWS PER TDW				
CHECKED BY:	MOB	2	02/16/11	PER VILLAGE REVIEW				
APPROVED BY:	TDW							
REVISION *								

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GRAPHIC SCALE  
 0 50 100 150  
 1" = 50'

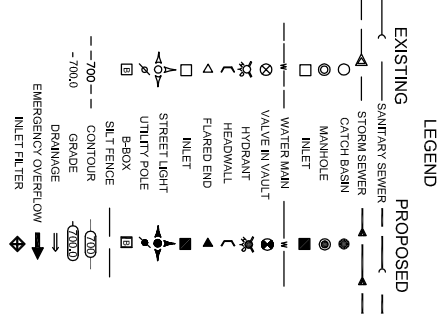
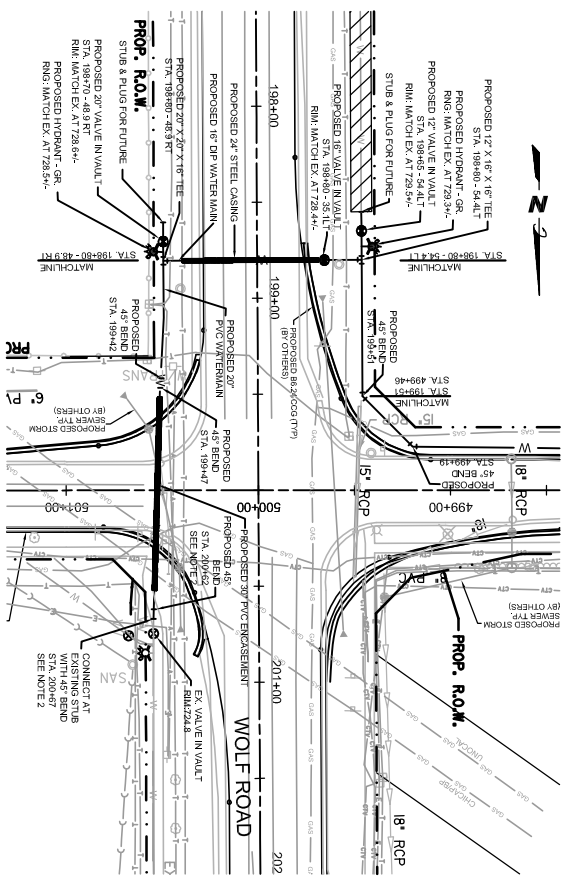
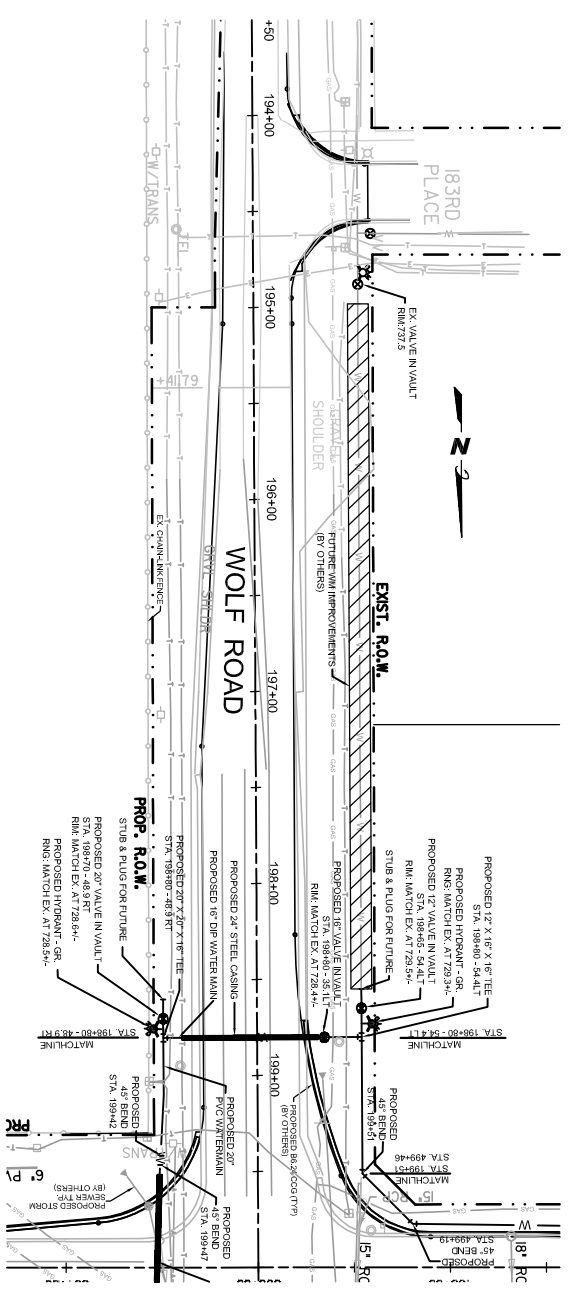
*Village of*  
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*where you want to live*

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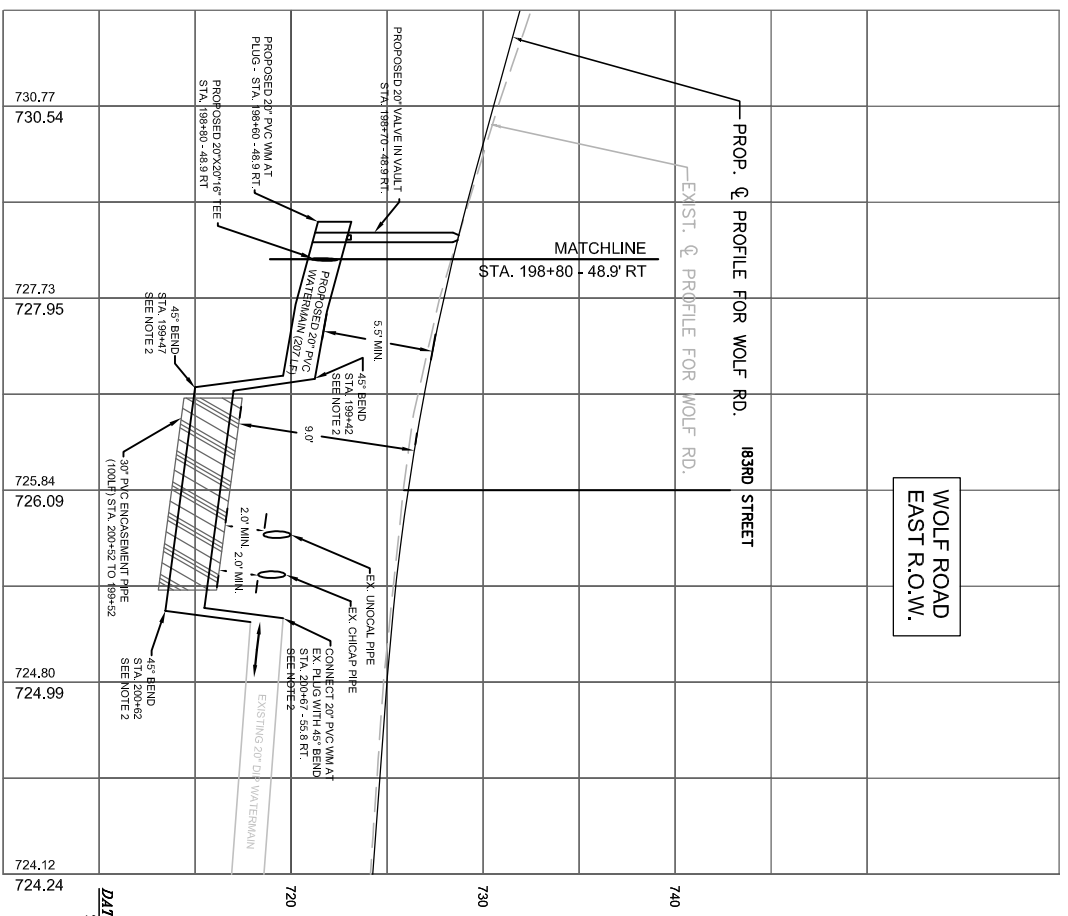
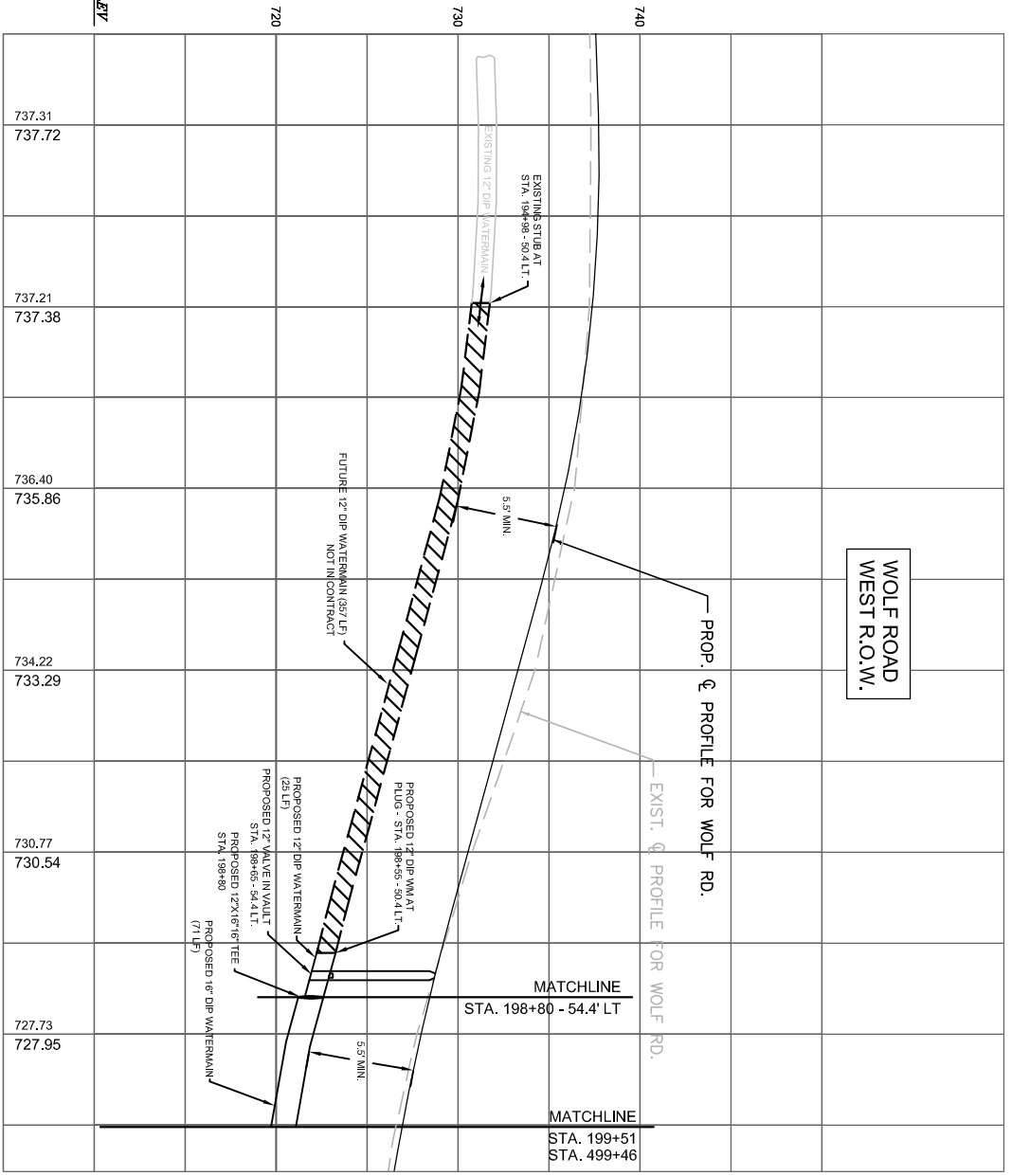
**WATER MAIN IMPROVEMENTS**  
**WOLF RD and 183RD ST**  
**PLAN & PROFILE**  
**183RD STREET**

DATE: 05/09/11 SCALE: HORIZ = 1"=50' VERT = 1"=5'

MAI JOB NO. 2010.0034  
 DRAWING NO. 3  
 OF 11 SHEETS



**REMARKS:**  
 1. TOPOGRAPHIC DATA WAS PROVIDED BY 100T.  
 2. 200'x2 & 200'x40\"/>



DESIGN BY:	D.L.J.	NO.	DATE	REVISIONS	DES. DRW. CHK. NO.	DATE	REVISIONS	DES. DRW. CHK.
DRAWN BY:	D.L.J.	1	01-27-11	DIVIDE PLAN & PROFILE VIEWS PER TDW				
CHECKED BY:	MOB	2	02/16/11	PER VILLAGE REVIEW				
APPROVED BY:	TDW							
REVISION *								

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**WATER MAIN IMPROVEMENTS**  
**WOLF RD and 183RD ST**  
 PLAN & PROFILE  
 WOLF ROAD

DATE: 05/09/11  
 SCALE: 1"=50' HORIZ  
 1"=5' VERT

MAI JOB NO. 2010.0034  
 DRAWING NO. 4  
 OF 11 SHEETS

**EROSION & SEDIMENTATION CONTROL**

**NOTES:**

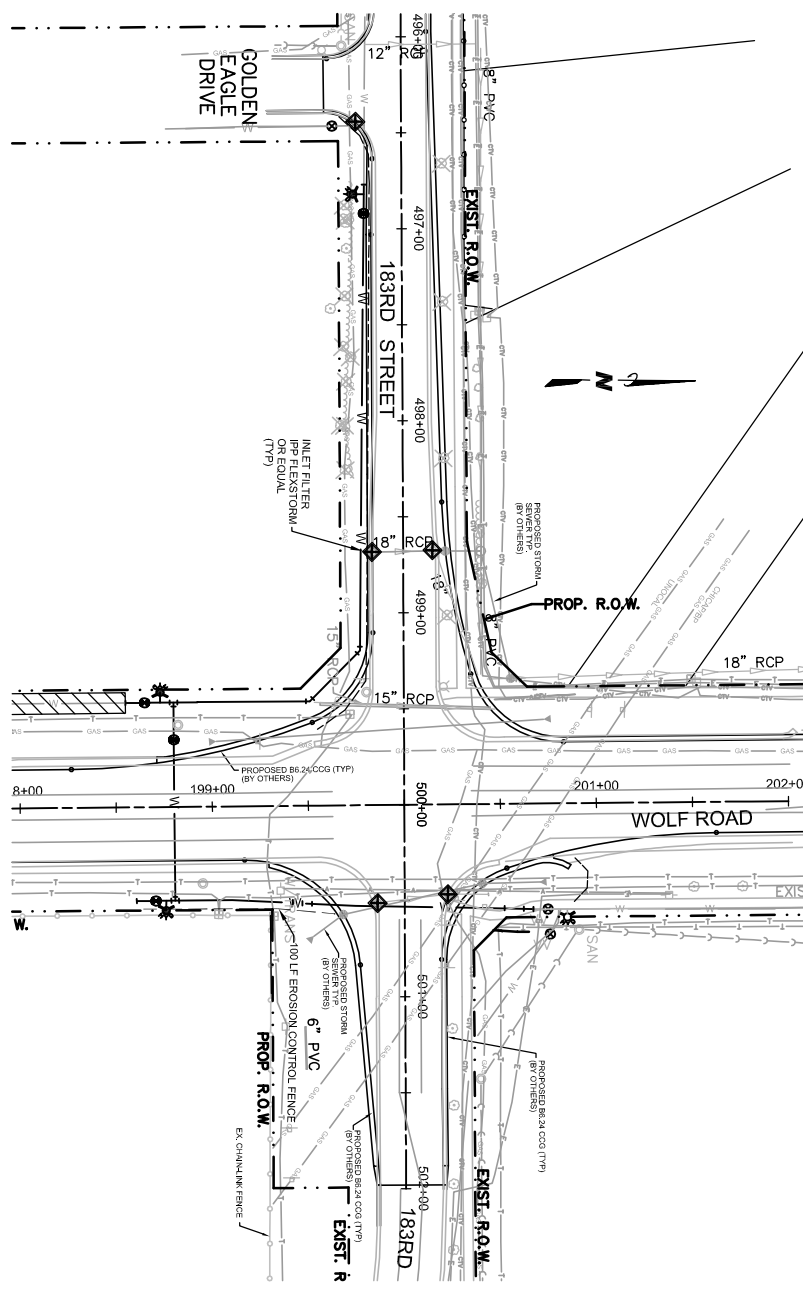
1. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL PLAN, PER ILLINOIS STANDARDS AND REGULATIONS, AND WITH ALL APPLICABLE COUNTY AND LOCAL ORDINANCES AND REGULATIONS.
2. ANY SOIL EROSION CONTROL MEASURES, IN ADDITION TO THOSE OUTLINED IN THESE PLANS AND WHICH ARE DEEMED NECESSARY BY THE OWNER, ENGINEER, AND MUNICIPAL ENGINEER SHALL BE IMPLEMENTED IMMEDIATELY BY THE CONTRACTOR.
3. BEFORE COMMENCING CLEARING AND SITE GRADING WORK, A CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SHOWN ON THE PLANS. THE CONSTRUCTION ENTRANCE TO THE SITE SHALL BE THE PLAN SHOWN. ALL WORK ON THE SITE THE ENTRANCE SHALL BE MAINTAINED PERIODICALLY FOR ITS EFFECTIVENESS TO REMOVE DIRT WHICH COULD LEAVE THE SITE BY CONSTRUCTION VEHICLES. ALL ROADWAYS SHALL BE KEPT CLEAN AT ALL TIMES.
4. STREETS ADJACENT TO THE SITE SHALL BE KEPT FREE OF DIRT, MUD, AND DEBRIS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES.
6. THE CONTRACTOR SHALL INSPECT AND DOCUMENT EROSION CONTROL MEASURES ON A WEEKLY BASIS AND AFTER ANY RAINFALL EVENT IN EXCESS OF ONE-HALF INCH.
7. NO SEDIMENT SHALL BE ALLOWED TO ENTER THE EXISTING STORM SEWER SYSTEM, THE UNDERGROUND CONTRACTOR SHALL INSTALL INLET FILTER BASKETS (OR APPROVED EQUIVALENT) UNDER ALL STORM STRUCTURE GRATES AND OPEN LOS IMMEDIATELY AFTER INSTALLATION OF STRUCTURE.
8. IN ACCORDANCE WITH THESE CONSTRUCTION PLANS, SILT FENCING SHALL BE INSTALLED AND MAINTAINED AROUND STORM SEWER STRUCTURES IN SWALE AREAS OR ALONG PROPERTY LINES UNTIL VEGETATION IS ESTABLISHED AND/OR CONSTRUCTION IS COMPLETE.
9. ALL STORM SEWER, CATCH BASINS, AND SUMPS PROVIDED WITHIN THIS PROJECT ARE TO BE CLEANED AT THE END OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANING OF THE PROJECT IF IT IS DETERMINED THAT THE SILT AND DEBRIS TRAPS ARE NOT PROPERLY FUNCTIONING AND THEIR PERFORMANCE IS IMPAIRED.
10. TOPSOIL STOCKPILES SHALL BE LOCATED TO AVOID EROSION OF SAID STOCKPILE ONTO OFF-SITE AREAS, I.E. THE STOCKPILE SHALL BE LOCATED 50' MINIMUM FROM THE PROPERTY LINE. STOCKPILE PROPERTIES, SILT FENCING SHALL BE INSTALLED AROUND THE PERIMETER OF ALL TOPSOIL STOCKPILES. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN TWO (2) WEEKS, IT IS REQUIRED BY BOTH WIND AND WATER.
11. THE TEMPORARY EROSION CONTROL MEASURES SHALL BE PLACED EFFECTIVELY UNTIL ALL THE PERMANENT EROSION CONTROL ITEMS ARE FULLY FUNCTIONAL.
12. THE GUARANTEE PERIOD SHALL BEGIN AFTER ALL THE PERMANENT EROSION CONTROL MEASURES ARE FULLY FUNCTIONAL AND ACCEPTABLE TO OWNER OR HIS REPRESENTATIVE.

13. UNLESS SOIL EROSION CONTROL ITEMS ARE SPECIFICALLY REFERRED TO AS BID ITEMS (SUCH AS TOPSOIL RESPREAD, SEEDING, ETC) THEY ARE TO BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT.
14. UPON COMPLETION OF TOPSOIL RESPREAD OPERATIONS, ALL DISTURBED AREAS SHALL BE SEEDING, SOODED, OR LANDSCAPED AS NOTED ON THE PLAN.
15. SOODING SHALL BE IN ACCORDANCE WITH SECTIONS 02930 OF THE STANDARD SPECIFICATIONS.
16. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO PREVENT EROSION. SOIL STABILIZATION SHALL BE APPLIED TO ANY TEMPORARY OR PERMANENT MEASURES.
17. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE.
18. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDRAULIC DISTURBANCE. PERMANENT STABILIZATION SHALL BE DONE WITHIN 14 DAYS AFTER COMPLETION OF FINAL GRADING OF THE SOIL.
19. ALL STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED, OR OTHERWISE RETAINED TO REMOVE SEDIMENT.
20. SHALL BE REPAID WITHIN 30 DAYS AFTER FINAL SITE MEASURES ARE UNDERTAKEN TO REMOVE SEDIMENT AND OTHER DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED.
21. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE OWNER/ CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTION AND REPAIR DURING CONSTRUCTION. THE OWNER WILL BE RESPONSIBLE FOR REPAIR AND REPLACEMENT OF DAMAGE TO THE PROJECT AFTER THE CONTRACTOR HAS COMPLETED THE PROJECT.
22. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE REQUIRED AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

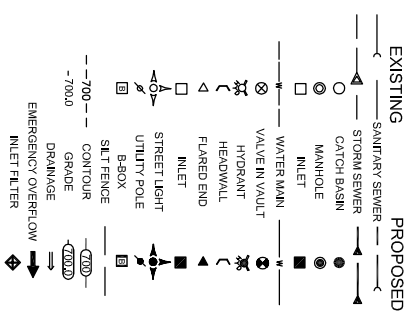
**CONSTRUCTION SEQUENCE:**

1. INSTALL SILT FENCE, CONSTRUCTION ENTRANCE, AND INLET
2. PROVIDE STORMWATER MANAGEMENT FOR THE PROJECT SITE.
3. STRIP EXISTING TOPSOIL, PROVIDE SILT FENCE AROUND TOPSOIL STOCKPILES AS NECESSARY.
4. CONSTRUCT UNDERGROUND FACILITIES (I.E. WATER SERVICE, SANITARY SEWER, ETC.)
5. RESTORE TOPSOIL TO DISTURBED AREAS, PROVIDE SOD OR OTHER MEANS OF PERMANENT EROSION CONTROL TO PROJECT AREA.

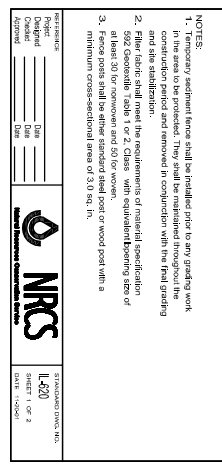
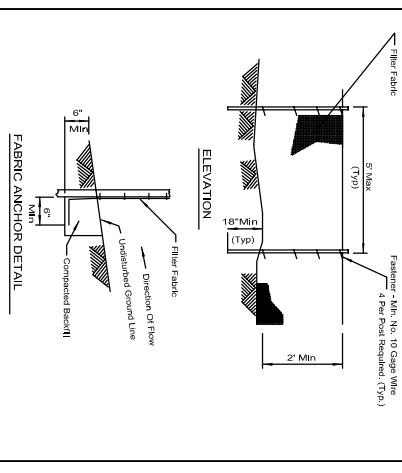
CONSTRUCTION START DATE: JUNE 17, 2011  
 CONSTRUCTION COMPLETION DATE: AUGUST 1, 2011  
 CONSTRUCTION SHALL BE SUBJECT TO THE SCHEDULED CONSTRUCTION START AND COMPLETION DATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EFFECT SCHEDULING, LEAD/LAG TIME, OR OTHER FACTORS.



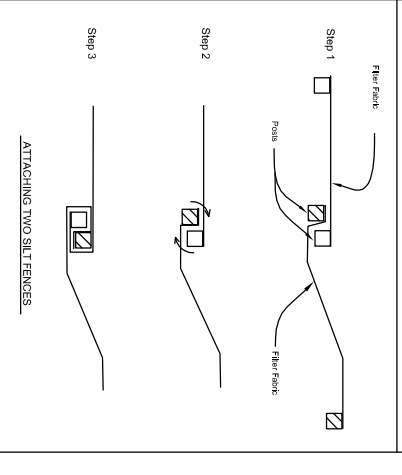
**LEGEND**



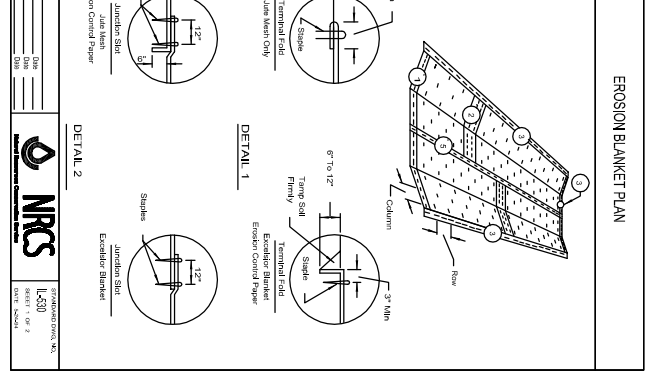
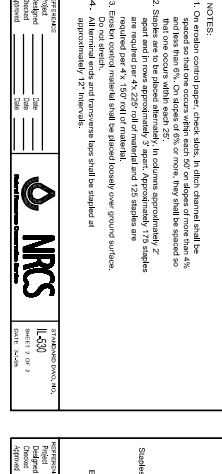
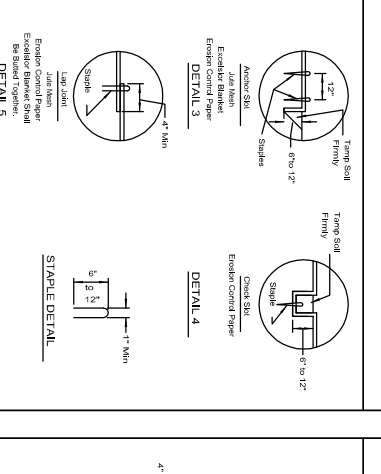
**SILT FENCE PLAN**



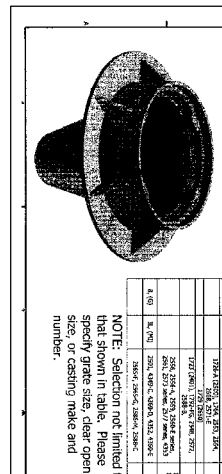
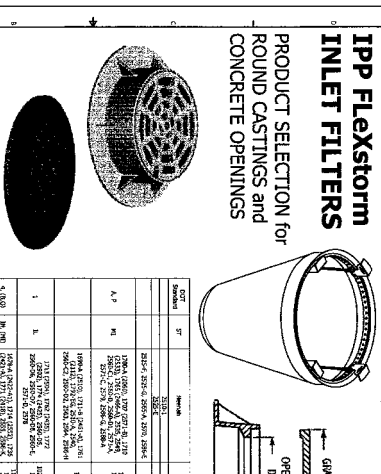
**SILT FENCE**



**EROSION BLANKET PLAN**



**EROSION BLANKET PLAN**



**IPP Flexstorm INLET FILTERS**  
 PRODUCT SELECTION for ROUND CASTINGS and CONCRETE OPENINGS

Model	Material	Standard	Standard	Standard	Standard
4" (4")	200.00	200.00	200.00	200.00	200.00
6" (6")	300.00	300.00	300.00	300.00	300.00
8" (8")	400.00	400.00	400.00	400.00	400.00
10" (10")	500.00	500.00	500.00	500.00	500.00
12" (12")	600.00	600.00	600.00	600.00	600.00
15" (15")	750.00	750.00	750.00	750.00	750.00
18" (18")	900.00	900.00	900.00	900.00	900.00
24" (24")	1200.00	1200.00	1200.00	1200.00	1200.00
30" (30")	1500.00	1500.00	1500.00	1500.00	1500.00

**NOTE: Selection not limited to.**  
 specify grate size, clear opening size, or casting make and number.

Model	Material	Standard	Standard	Standard	Standard
4" (4")	200.00	200.00	200.00	200.00	200.00
6" (6")	300.00	300.00	300.00	300.00	300.00
8" (8")	400.00	400.00	400.00	400.00	400.00
10" (10")	500.00	500.00	500.00	500.00	500.00
12" (12")	600.00	600.00	600.00	600.00	600.00
15" (15")	750.00	750.00	750.00	750.00	750.00
18" (18")	900.00	900.00	900.00	900.00	900.00
24" (24")	1200.00	1200.00	1200.00	1200.00	1200.00
30" (30")	1500.00	1500.00	1500.00	1500.00	1500.00

**NOTE: Selection not limited to.**  
 specify grate size, clear opening size, or casting make and number.

DESIGN BY:	NO.	DATE	DES.	DRW.	CHK.	NO.	DATE	DES.	DRW.	CHK.
DJL	2	02/16/11	PER VILLAGE REVIEW							

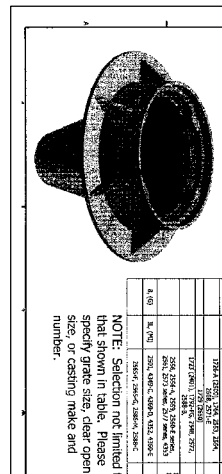
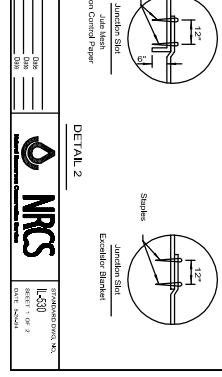
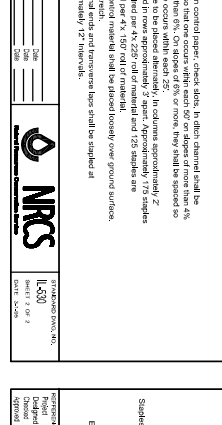
DESIGN BY:	NO.	DATE	DES.	DRW.	CHK.
DJL	2	02/16/11	PER VILLAGE REVIEW		
MDJ					
TDW					

DESIGN BY:	NO.	DATE	DES.	DRW.	CHK.
DJL					
MDJ					
TDW					

REVISION #	DATE	BY	DESCRIPTION



**WATER MAIN IMPROVEMENTS**  
**WOLF RD and 183RD ST**  
 EROSION & SEDIMENTATION CONTROL PLAN

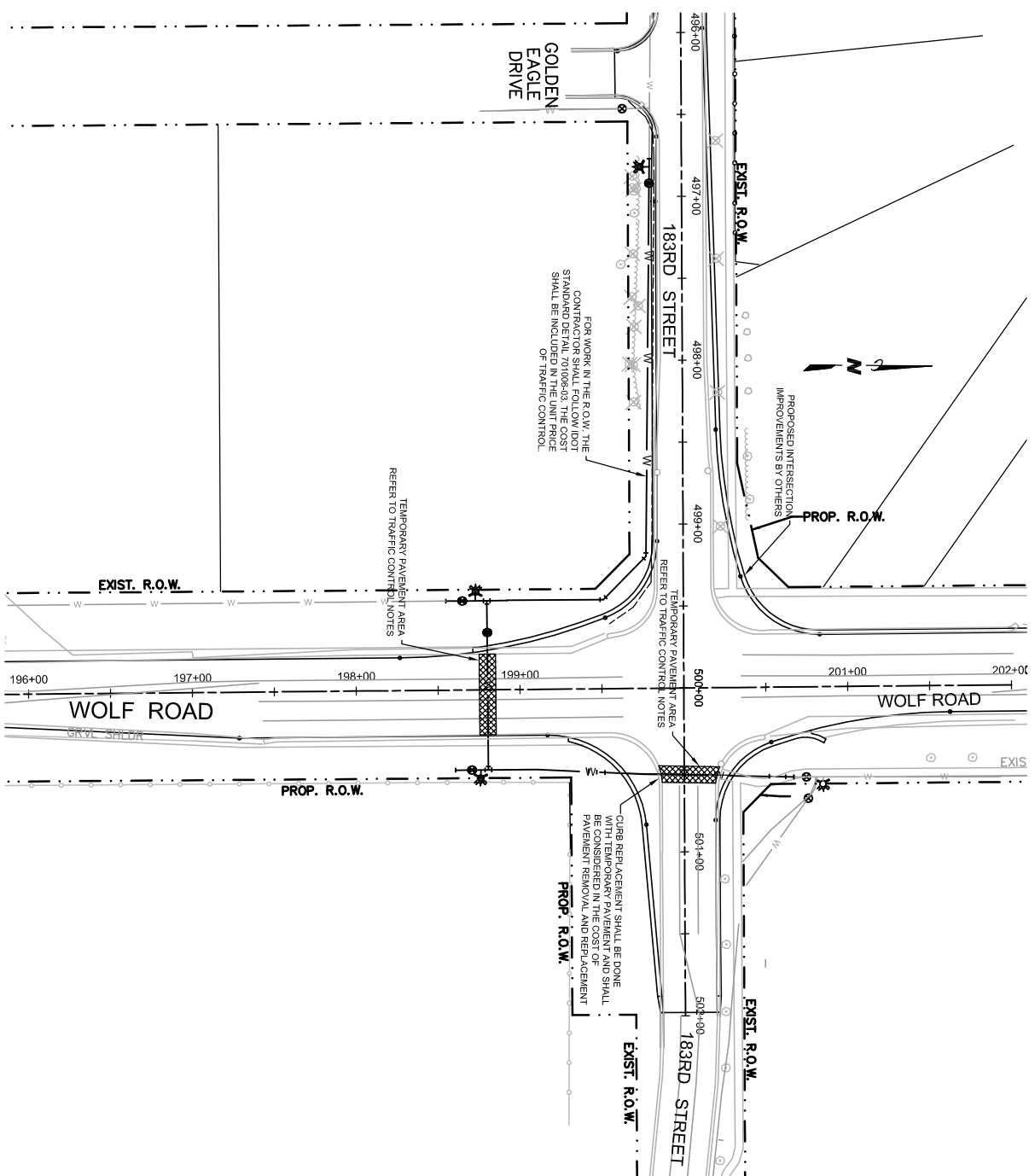
DATE: 05/09/11 SCALE: 1" = 50'

TRAFFIC CONTROL NOTES:

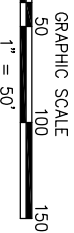
1. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS ARTICLES OF SECTION 701 OF THE DOT STANDARD SPECIFICATIONS.
2. THE CONTRACTOR SHALL PROVIDE PROPER SIGNAGE AND FLAGGING OPERATIONS PER SECTION 701 OF THE DOT STANDARD SPECIFICATIONS. THE COST SHALL BE INCLUDED IN THE UNIT PRICE OF TRAFFIC CONTROL.
3. WATERMAIN CROSSING OF WOLF ROAD AND 183RD STREET SHALL BE MAINTAINED THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL NOT OPEN CUT MORE THAN HALF OF THE ROADWAY AT ANY GIVEN TIME. WHEN COMPLETING THE SECOND HALF OF THE CROSSING, THE COST SHALL BE INCLUDED IN THE UNIT PRICE OF TRAFFIC CONTROL.
4. WATERMAIN CROSSINGS SHALL BE NO GREATER THAN 10' IN WIDTH FOR THE LENGTH OF THE CUT ACROSS THE STREET.
5. THE CONTRACTOR SHALL SAWCUT ALL PAVEMENT TO BE REMOVED TO PROTECT PAVEMENT THAT IS TO REMAIN. THE COST SHALL BE CONSIDERED INCIDENTAL TO THE COST OF PAVEMENT REMOVAL AND REPLACEMENT.
6. THE CONTRACTOR SHALL MATCH THE EXISTING GRADES OF THE ADJACENT PAVEMENT DURING REPLACEMENT OF PAVEMENT.
7. ALL PAVEMENT SHALL BE RESTORED AT THE CONCLUSION OF THE WORKDAY AND TRAFFIC SHALL BE RESTORED TO PERMIT TRAVEL IN ALL DIRECTIONS. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.

IDOT STANDARD DETAILS

1. STANDARD 701006-03 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24' (6.00M) FROM PAVEMENT EDGE
2. STANDARD 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
3. STANDARD 701901-01 TRAFFIC CONTROL DEVICES

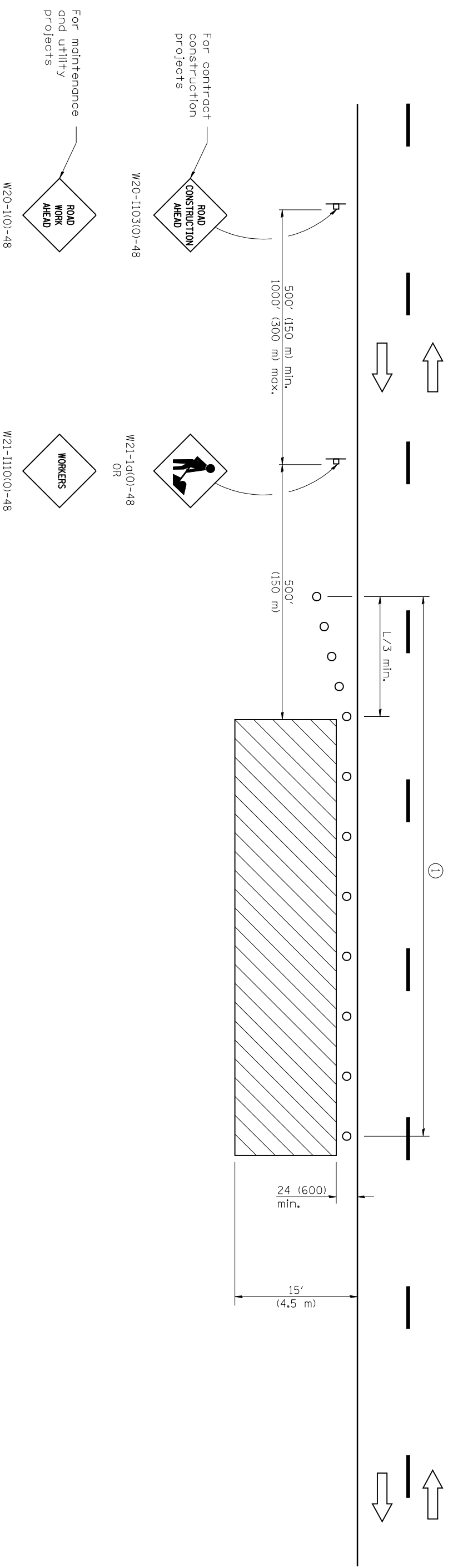


DESIGN BY:	DJL	NO.	DATE	REVISIONS	DES. DRW. CHK.	NO.	DATE	REVISIONS	DES. DRW. CHK.
DRAWN BY:	DJL	2	02/16/11	PER VILLAGE REVIEW					
CHECKED BY:	MDB								
APPROVED BY:	TDW								
REVISION #									



14700 Ravinia Avenue  
Orland Park, IL 60462  
Ph. (708)403-6100

<b>WATER MAIN IMPROVEMENTS WOLF RD and 183RD ST</b>	<b>MAI JOB NO.</b> 2010.0034
<b>MAINTENANCE OF TRAFFIC PLAN</b>	<b>DRAWING NO.</b> 6
<b>DATE:</b> 05/09/11	<b>SCALE:</b> 1" = 50'
	<b>OF 11 SHEETS</b>



**TYPICAL APPLICATIONS**

- Utility operations
- Culvert extensions
- Side slope changes
- Guardrail installation and maintenance
- Delinctor installation
- Landscaping operations
- Shoulder repair
- Sign installation and maintenance

**SYMBOLS**

- Work area
- Sign
- Cone, drum or barricade

**GENERAL NOTES**

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24 (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS
English	$L = \frac{WS^2}{60}$
Metric	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$ $L = 0.65(W)(S)$

W = Width of offset in feet (meters).  
 S = Normal posted speed in feet (meters).  
 mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

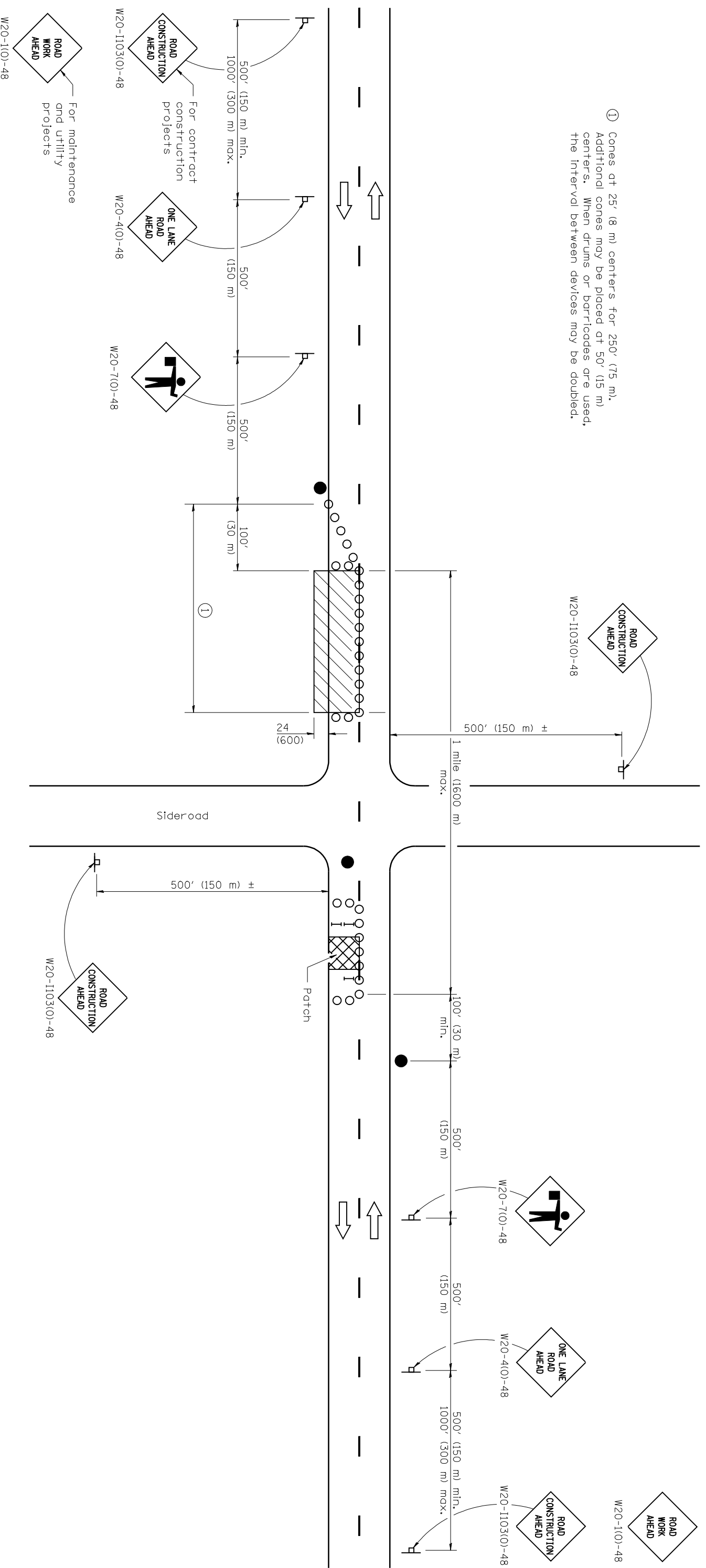
Illinois Department of Transportation  
 APPROVED January 1, 2009  
 ENGINEER OF OPERATIONS  
 APPROVED January 1, 2009  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-05	Corrected sign No.'s, Revised titles, notes, and sign spacing.

**OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE**  
**STANDARD 701006-03**

① Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or barricades are used, the Interval between devices may be doubled.



**TYPICAL APPLICATIONS**

- Isolated patching
- Utility operations
- Storm sewer
- Culverts
- Cable placement

**SYMBOLS**

- Work area
- Sign
- Barricade or drum
- Cone, drum or barricade
- Flagger with traffic control sign

**GENERAL NOTES**

This Standard is used where at any time, any vehicles, equipment, workers or their activities will encroach in the area between the center line and a line 24 (600) outside the edge of pavement for daylight operation.

When the distance between successive work areas exceeds 2000' (600 m), additional warning signs, flaggers, and taper shall be placed as shown.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

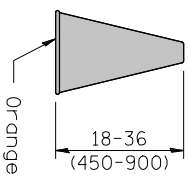
APPROVED January 1, 2011  
 ENGINEER OF SAFETY ENGINEERING  
 APPROVED January 1, 2011  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

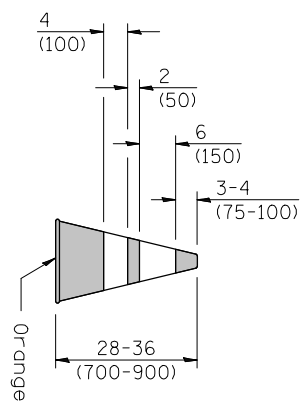
DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.

**LANE CLOSURE, 2L, 2W,  
 DAY ONLY,  
 FOR SPEEDS > 45 MPH  
 STANDARD 701201-04**

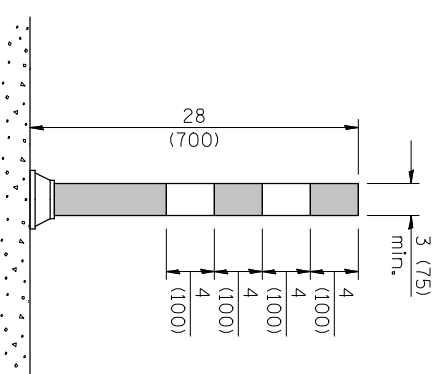




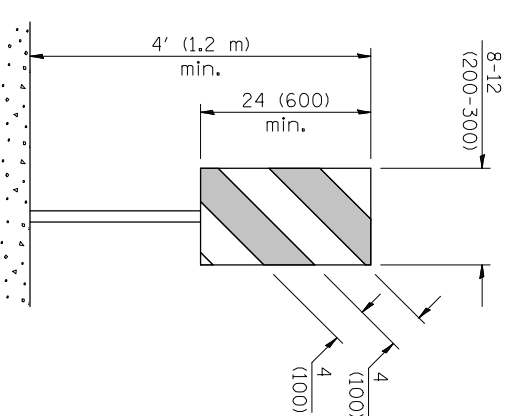
**CONE**



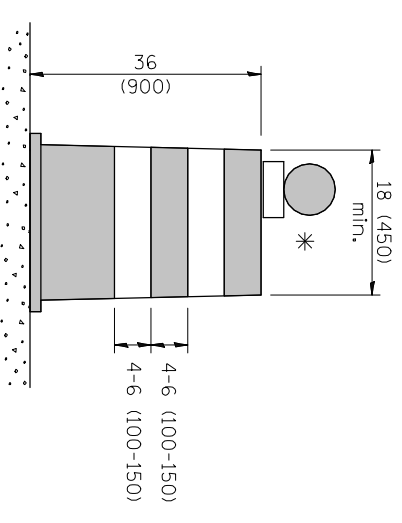
**REFLECTORIZED CONE**



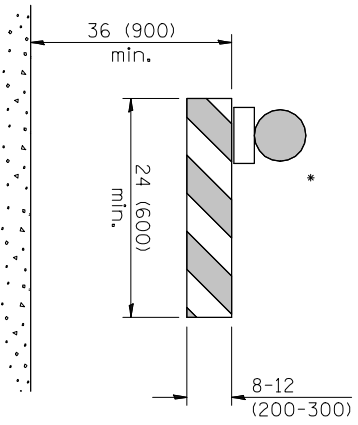
**FLEXIBLE DELINEATOR**



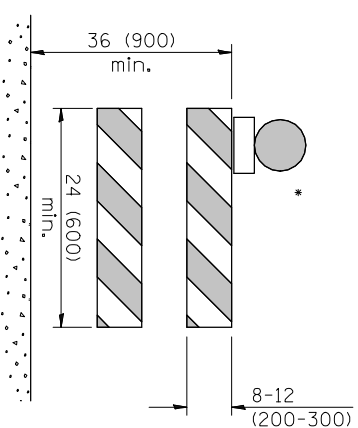
**VERTICAL PANEL**  
POST MOUNTED



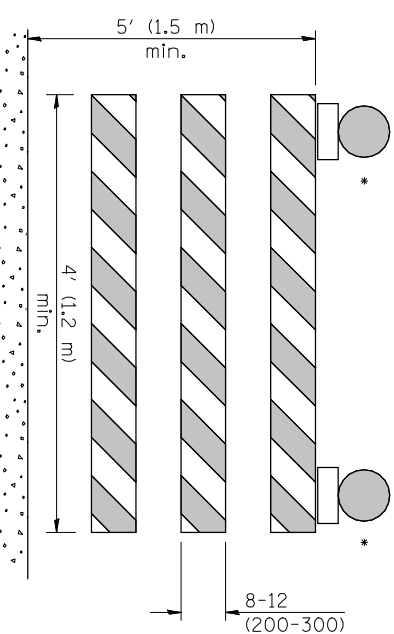
**DRUM**



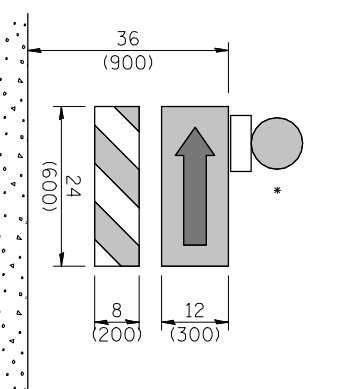
**TYPE I BARRICADE**



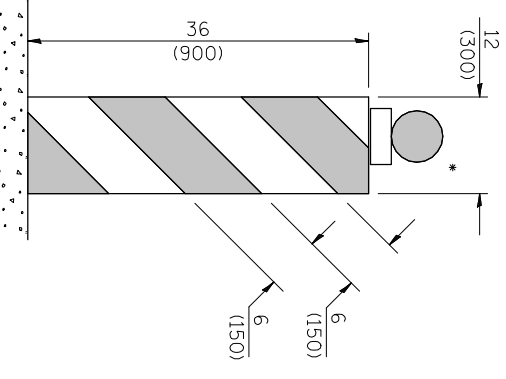
**TYPE II BARRICADE**



**TYPE III BARRICADE**



**DIRECTION INDICATOR BARRICADE**



**VERTICAL BARRICADE**

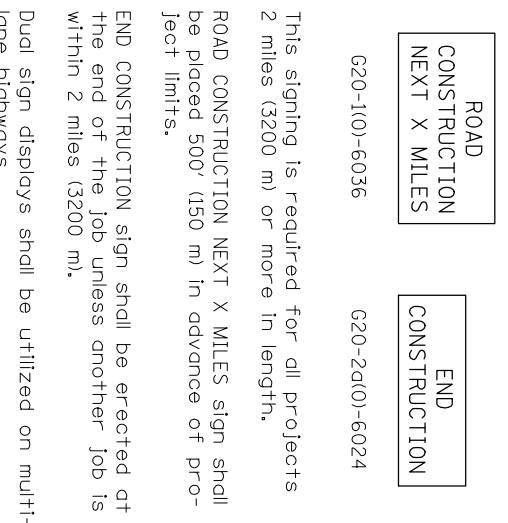
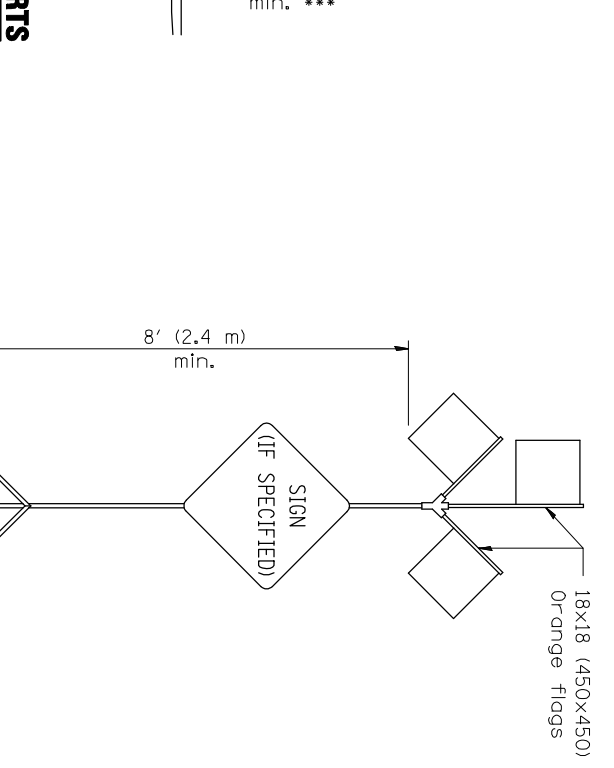
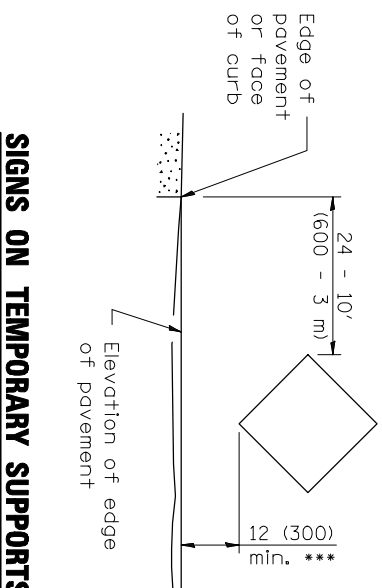
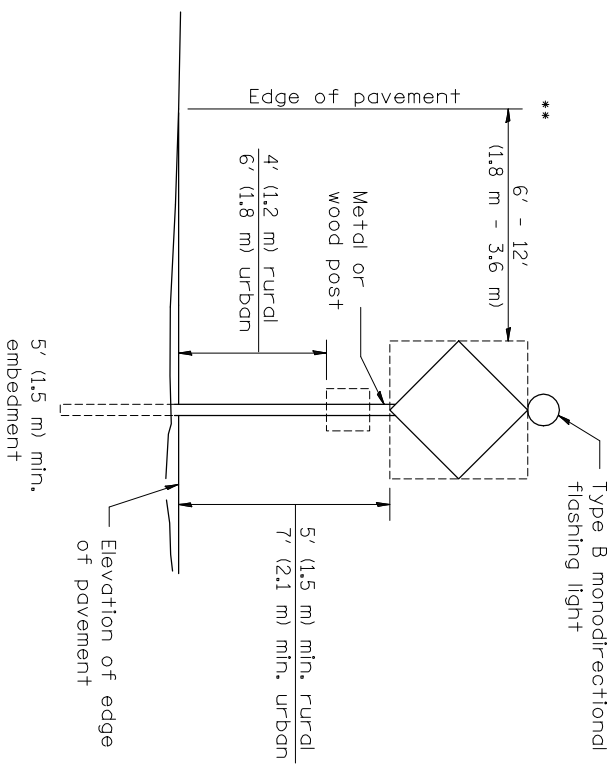
\* Warning lights (if required)

**GENERAL NOTES**  
All heights shown shall be measured above the pavement surface.  
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation	
APPROVED	JANUARY 1, 2009
ENGINEER OF OPERATIONS	<i>[Signature]</i>
APPROVED	JANUARY 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT	<i>[Signature]</i>
ISSUED	1-1-97

DATE	REVISIONS
1-1-09	Switched units to English (metric). Omitted light on vertical panel.
1-1-08	Renumbered Standard 702001-06. Rev. note for temp. signs on Sheet 2.

<b>TRAFFIC CONTROL DEVICES</b> (Sheet 1 of 3)	
<b>STANDARD 701901-01</b>	



**POST MOUNTED SIGNS**

\*\* When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.

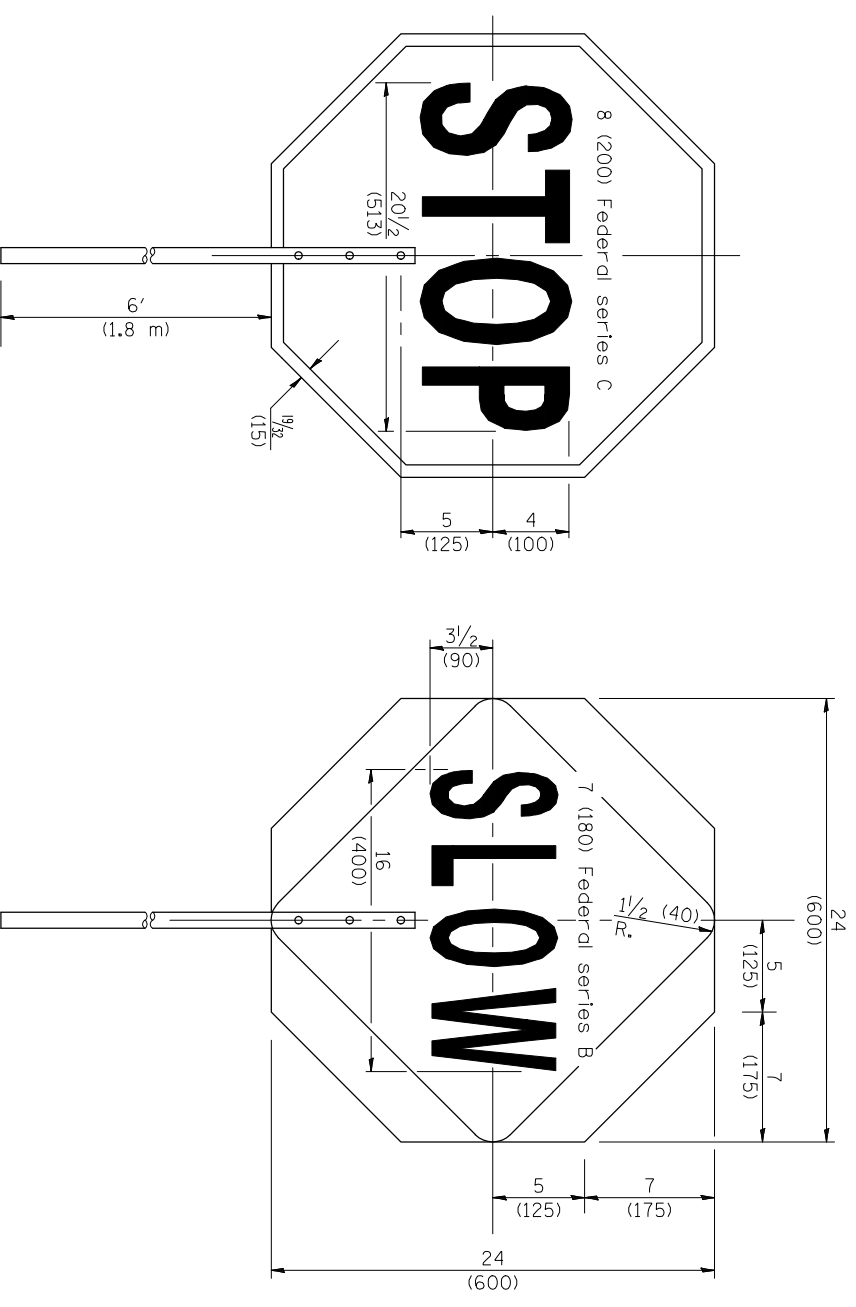
**SIGNS ON TEMPORARY SUPPORTS**

\*\*\* When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen by motorists.

**HIGH LEVEL WARNING DEVICE**

**WORK LIMIT SIGNING**

This signing is required for all projects 2 miles (3200 m) or more in length.  
 ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.  
 END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).  
 Dual sign displays shall be utilized on multi-lane highways.



FRONT SIDE

REVERSE SIDE

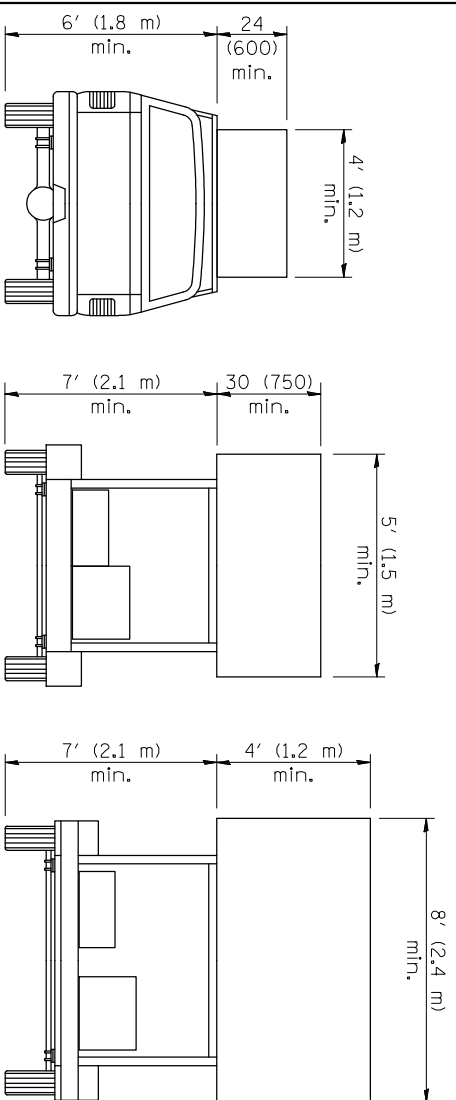
**FLAGGER TRAFFIC CONTROL SIGN**

**TRAFFIC CONTROL DEVICES**

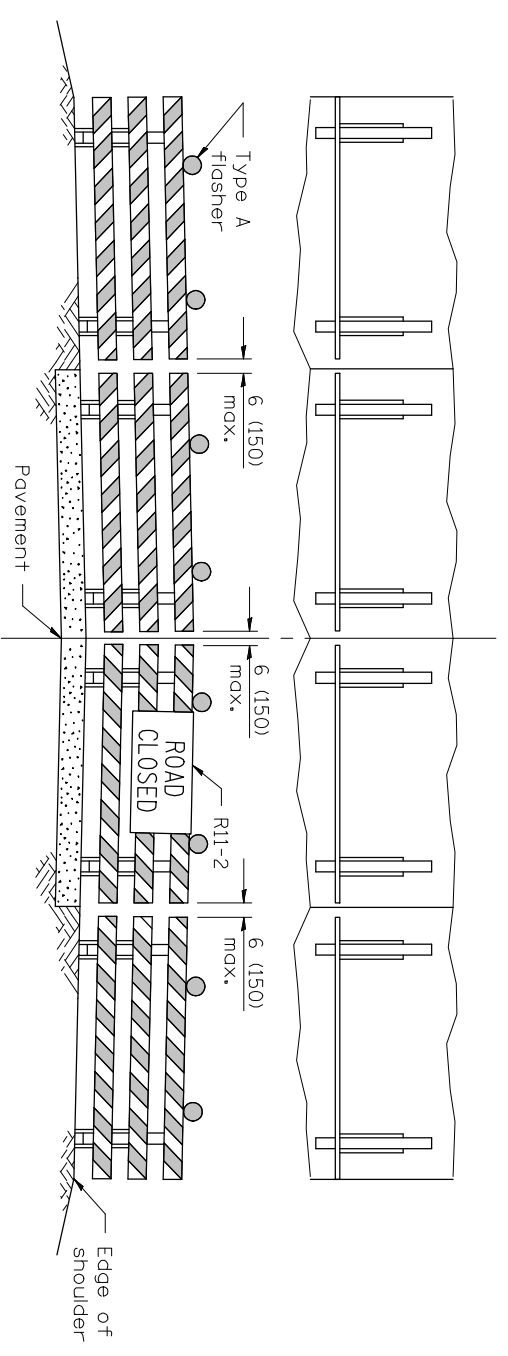
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation  
 APPROVED January 1, 2009  
 ENGINEER OF OPERATIONS  
 APPROVED January 1, 2009  
 ENGINEER OF DESIGN AND ENVIRONMENT

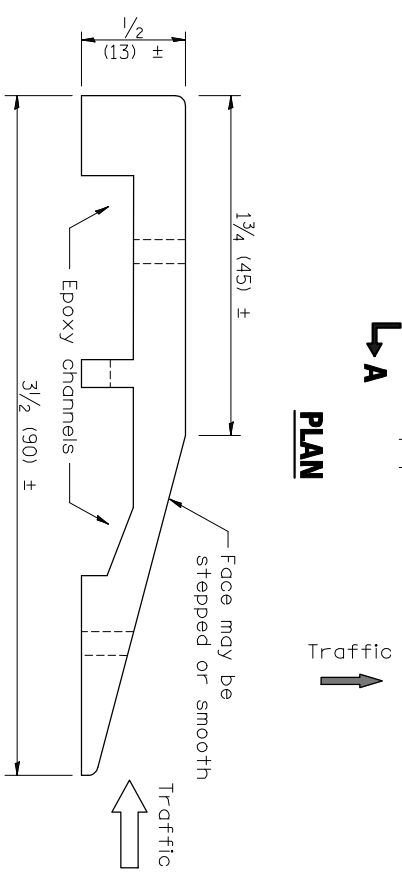
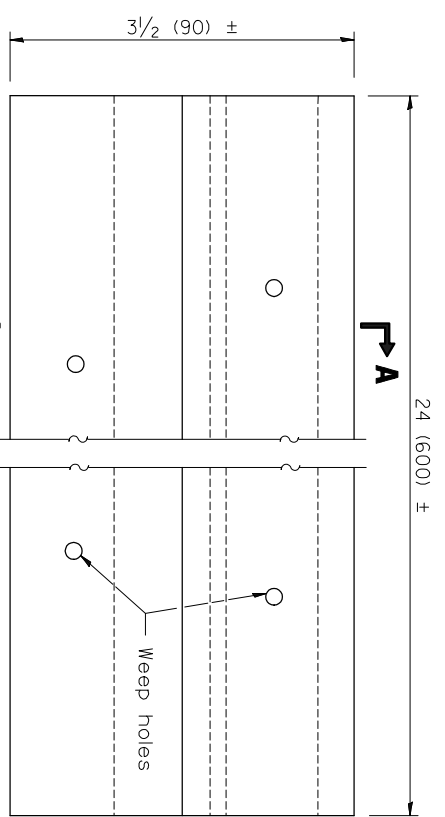
ISSUED 1-1-97



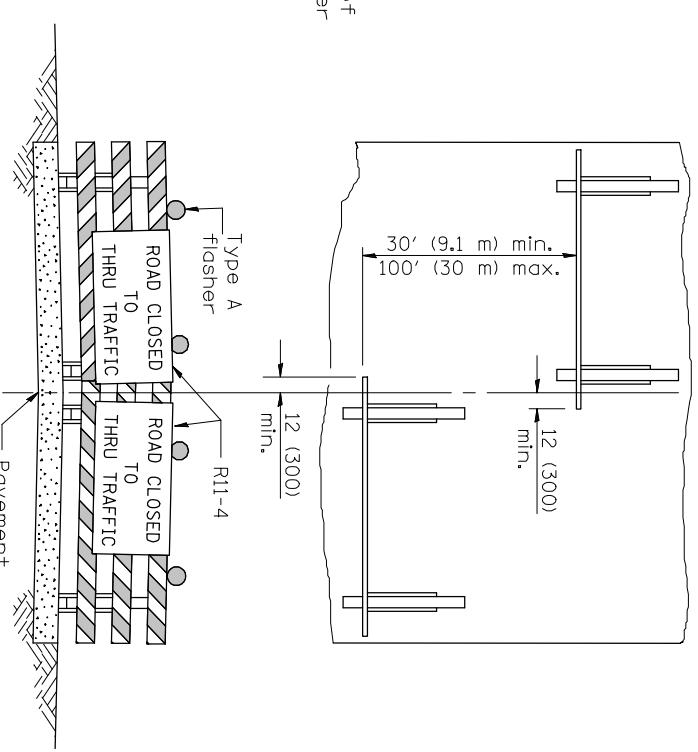
**ARROW BOARDS**



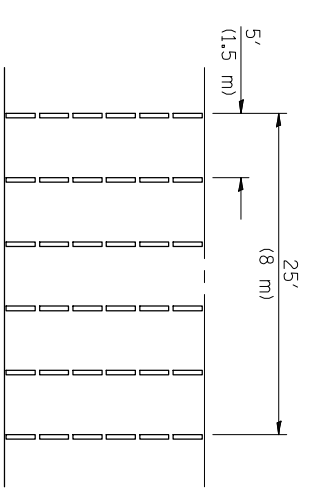
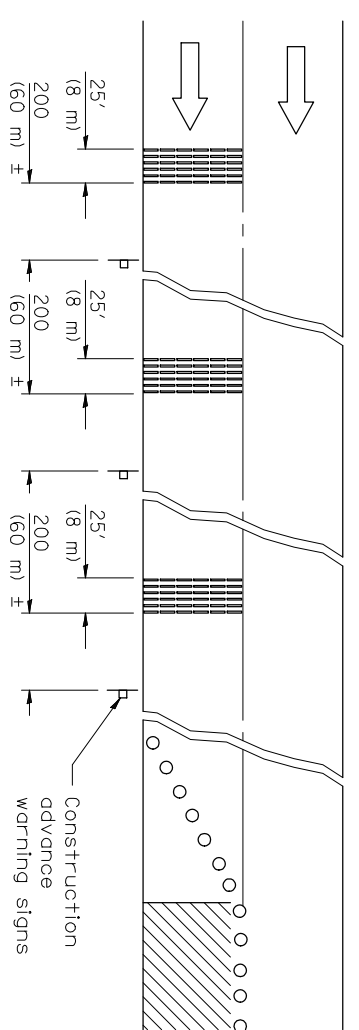
ReflectORIZED striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



**TEMPORARY RUMBLE STRIPS**



ReflectORIZED striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.



**TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD**

Illinois Department of Transportation

APPROVED January 1, 2009  
ENGINEER OF OPERATIONS  
APPROVED January 1, 2009  
ENGINEER OF DESIGN AND ENVIRONMENT

**TRAFFIC CONTROL DEVICES**

STANDARD 701901-01

All dimensions are in inches (millimeters) unless otherwise shown.

(Sheet 3 of 3)