



## Town of Cicero

331 E Jackson Street Cicero, IN 46034

317-984-5845

Office Hours: Mon-Fri 8:00 To 4:30

# ENCROACHMENT PERMIT APPLICATION

- The applicant named below requests permission to encroach on the following public right-of-way, street, sidewalk, alley, or other public space at the location described below.
- Applicant shall submit one original application, with plans attached, either in person or by mail.
- No verbal transmissions will be accepted. Fax transmissions will not be accepted.
- You may pay by check or credit card. If you wish to pay by credit card, please visit [pay.gov.us](https://pay.gov.us) at <https://pay.gov.us/EndUser/PaymentAgency.aspx?ttid=12936>; there will be a fee to pay by credit card.
- If you prefer to pay with a check, please make the check payable to: Town of Cicero, 331 E Jackson Street, Cicero, IN 46034.

### For Office Use Only

Permit Number \_\_\_\_\_

Expires \_\_\_\_\_

Permit Fee \_\_\_\_\_

Fee Waived \_\_\_\_\_

Application Date: \_\_\_\_\_ Estimated Completion Date: \_\_\_\_\_

Work Address: \_\_\_\_\_ Subdivision: \_\_\_\_\_

Name of Contractor/Utility: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Name of Sub-Contractor: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

LOCATION: ☐ Street ☐ Alley ☐ Sidewalk ☐ Shoulder/Berm

IUPPS Number: \_\_\_\_\_

TYPE: ☐ Cut ☐ Bore ☐ Trench ☐ Other ☐ New Construction ☐ Existing Construction  
☐ Water ☐ Gas ☐ Electric ☐ Phone ☐ CATV ☐ Sewer ☐ Irrigation

Please describe proposed work: \_\_\_\_\_

*\*Please contact Frank Zawadzki at (317) 984-5845 twenty-four hours prior to pouring concrete\**

### SIZE OF STREET OR RIGHT-OF-WAY CUT

Traffic Lanes: Length: \_\_\_\_\_ Width: \_\_\_\_\_ Depth Within Lanes: \_\_\_\_\_

Sidewalk: Length: \_\_\_\_\_ Width: \_\_\_\_\_ Depth Within Sidewalk: \_\_\_\_\_

Type of Surface: ☐ Concrete ☐ Asphalt ☐ Asphalt Over Concrete ☐ Asphalt Over Brick ☐ Gravel-Dirt ☐ Brick

### TRAFFIC PORTION AFFECTED BY PERMIT

Width: \_\_\_\_\_ Length: \_\_\_\_\_ # of Lanes: \_\_\_\_\_ # of Lanes to be Closed: \_\_\_\_\_ # of Hours Closed: \_\_\_\_\_

Vehicles/equipment left onsite unattended? ☐ Yes ☐ No Unattended for: \_\_\_\_\_ weekdays \_\_\_\_\_ weekends

## TERMS AND CONDITIONS FOR ENCROACHMENT PERMIT

1. It is understood that any permit by virtue of this request is revocable at the pleasure of the Town of Cicero and that the same shall be voided if the following terms and conditions are not fulfilled by the Permittee. The Permittee hereby agrees to observe all requirements of the Town of Cicero Construction Standard Specifications.
2. The undersigned shall notify the Cicero Utility Superintendent or their designee a minimum of 72 hours prior to the time that work is to be performed. The undersigned will furnish placards identifying equipment, flashers, barricades and/or other warning devices at the construction site. When two-way traffic is confined to one lane, flagging personnel shall be required. Permittee must follow Chapter XVII of Title 29, Code of Federal Regulation, Part 1926 known as Safety & Health Regulation for Construction.
3. In cases where the work authorized by the permit will cause major interference with traffic flow on streets, Permittee shall provide a uniformed traffic officer when requested by the Utility Superintendent or his representative to provide traffic control at the construction site. Work shall not be performed on any major arterials, streets and thoroughfares during rush hours or peak hours of vehicular traffic flow, unless in case of emergencies.
4. The Permittee shall not create a hazardous or unsafe situation at construction sites, which would cause injury or damage to vehicular and pedestrian traffic. The Permittee shall not leave unattended open cuts unprotected overnight or during weekend periods. Permission to use temporary steel plates or any authorized substitutes shall be requested at open cuts or construction sites. The Cicero Street and Utility Department or their designee shall be notified of these steel plates or substitutes by the Permittee.
5. All construction equipment and/or vehicles left unattended for any length of time shall be parked in locations as to not create hazardous and unsafe situations to vehicular and pedestrian flow. The construction equipment and/or vehicles shall be parked in such a manner as to not restrict sight distance to vehicular traffic. All construction equipment and/or vehicles are prohibited from driving on named trails, neighborhood perimeter trails, and sidewalks.
6. The Permittee shall hold harmless and indemnify the Town of Cicero from, for and against any claim of any person in tort, contract or otherwise arising out of the act or omissions of the Permittee, their agents, representatives, servants, contractors and the latter's subcontractors, whenever such acts or omissions or any rights or performance or exercise thereof of the Permittee arise under this permit from alteration, modernization, replacement, operation, maintenance, change or removal of any part or portion of the public right-of-way, or facility thereof. All existing utilities must be identified and located prior to all boring operations. Permittee and their sub-contractors shall be responsible for consequential damages to residents and businesses who are damaged during outages caused by these untimely accidents experienced by poorly coordinated utility borings and construction activities in the Town right-of-way.
7. The Permittee shall stipulate the type of materials and method of repair utilized to close any open cuts, subject to the Utility Director or his representative's approval.
8. The Permittee shall begin work within 45 working days from the date of application approval, and work must be completed within 60 working days of the application approval. Any construction and/or work not completed by this date shall be grounds to nullify and void this permit. Re-application would then be necessary.
9. The Permittee shall be required upon completion of construction and/or work to notify the Town of Cicero Utility Director or their designee for inspection and verification. The construction and/or work shall be inspected prior to being accepted by the Town of Cicero as being complete. The Cicero Utility Director or their designee shall perform the inspection.
10. Upon the completion of all open street cuts, permanent patches shall be in place no later than 20 working days from the temporary patch inspection date. Any construction work or repair measures utilized to close any open cuts made under this permit that are found to be unsatisfactory shall be corrected within 10 working days by the Permittee. The Permittee shall be responsible to maintain and repair any and all open cuts granted by this permit for a period of one year upon final acceptance, unless the Town of Cicero and/or other utilities, contractors or subcontractors or other parties remove, damage, modernize, replace, change any part or portion of the public right-of-way or facility or thereof granted under this permit.
11. Upon completion/acceptance by the Utility Director as-built must be provided (print and CD form) within 30 days of completion.

Signature of Applicant: \_\_\_\_\_ Title: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_

Company Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_

### For Office Use Only:

Traffic Control Personnel: ☐ YES ☐ NO      Uniform Police: ☐ YES ☐ NO      Number of Personnel Necessary: \_\_\_\_\_

Steel Plates or other authorized substitute to be used? ☐ YES ☐ NO (If yes, refer to #4 above)

Type of materials and methods used to close or repair open cuts shall conform to Attachment A.  
If another method has been pre-approved, please list below:

\_\_\_\_\_  
\_\_\_\_\_

Town of Cicero

Project Manager/when applicable

Date Approved

**FINAL REVIEW COPY, 02/18/10**

SHEET INDEX

1. DIRECTIONS FOR USE, GENERAL NOTES AND SHEET INDEX
2. RIGHT-OF-WAY & UTILITY EASEMENT GUIDELINES
3. RIGHT-OF-WAY & UTILITY EASEMENT GUIDELINES & PAVEMENT REQUIREMENTS
4. PAVEMENT, CURB & SIDEWALK DETAILS AND NOTES
5. MISCELLANEOUS DETAILS AND NOTES
6. STORM SEWER DETAILS AND NOTES
7. STREET RESTORATION DETAILS
8. STREET SIGNS AND PAVEMENT MARKINGS
9. SANITARY SEWER DETAILS AND NOTES
10. WATER SYSTEM DETAILS AND NOTES
11. WATER SYSTEM DETAILS AND NOTES
12. WATER SYSTEM DETAILS AND NOTES
13. RETENTION POND DETAILS AND NOTES
14. DETENTION POND DETAILS AND NOTES
15. MISCELLANEOUS DETAILS
16. MISCELLANEOUS SPECIFICATIONS

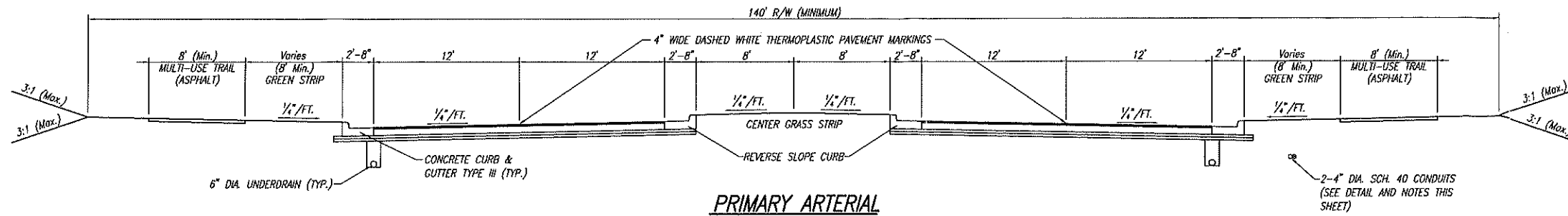
P.O. BOX 391  
CICERO, IN 46034

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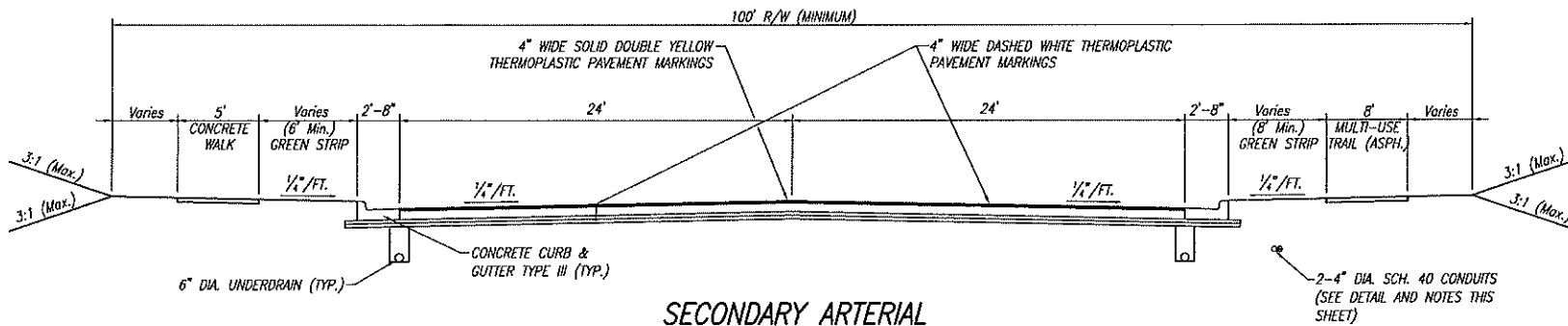
**'IT'S THE LAW'**  
CALL 2 WORKING DAYS BEFORE YOU DIE  
**1-800-382-5544**  
CALL TOLL FREE  
PER INDIANA STATE LAW 30B-1-26,  
IT IS AGAINST THE LAW TO EXCHANGE WITHOUT  
NOTIFYING THE UNDERGROUND LOCATION SERVICE  
AND (2) WORKING DAYS BEFORE COMMENCING  
TRAVEL.

5/18/09

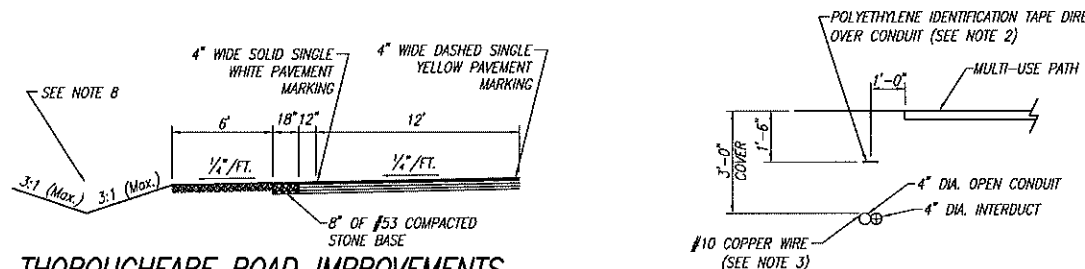




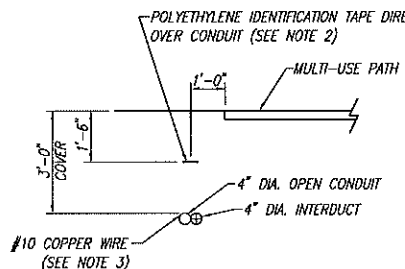
PRIMARY ARTERIAL



### SECONDARY ARTERIAL



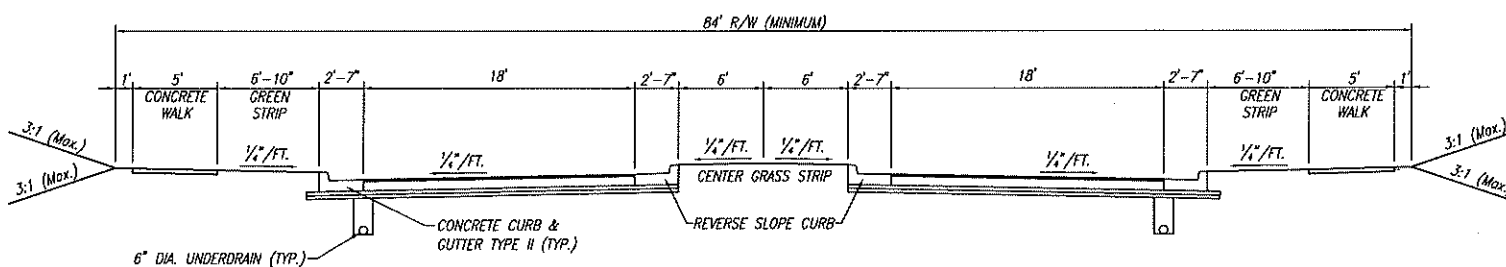
THOROUGHFARE ROAD IMPROVEMENTS



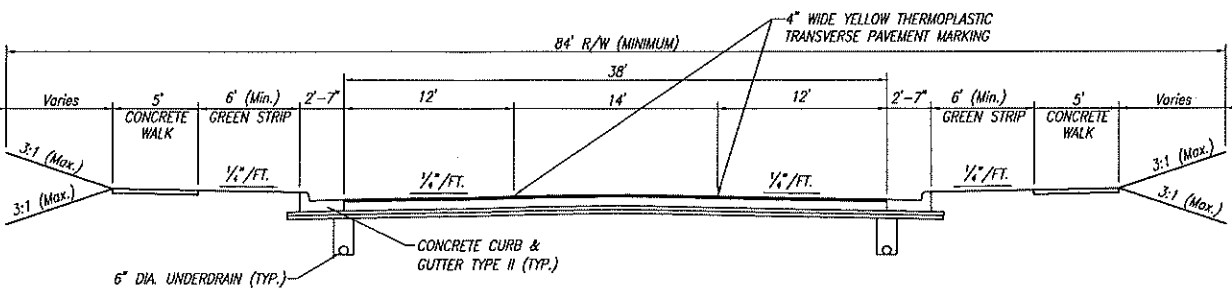
CONDUIT DETAIL

CONDUIT NOTES:

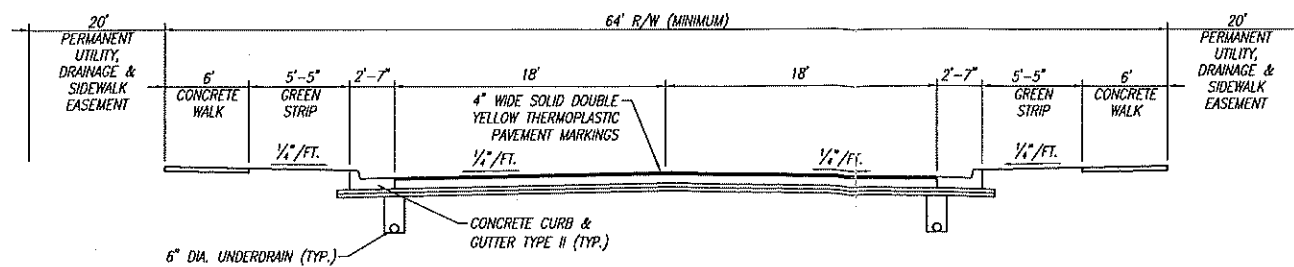
1. 4" DIA. INTERDUCT CONDUIT SHALL BE PVC SCH. 40. THE INTERIOR OF EACH INTERDUCT SHALL BE SPECIFICALLY DELINEATED WITH 4 CONTRASTING COLORS.
2. THE POLYETHYLENE IDENTIFICATION TAPE SHALL BE METALLIC AND HAVE A MINIMUM THICKNESS OF 4 MILS. THE TAPE SHALL READ "CAUTION BURIED FIBER OPTIC". TAPE SHALL BE PLACED DIRECTLY OVER PIPE, 18" BELOW FINAL GRADE.
3. 10 GAUGE INSULATED, SOLID COPPER WIRE SHALL BE ATTACHED DIRECTLY TO THE OUTSIDE OF THE OPEN CONDUIT EVERY 10 FEET.
4. HANDHOLES SHALL BE PLACED AT LOCATIONS DESIGNATED BY THE TOWN OF CICERO, BUT NO GREATER THAN 400 FEET APART.
5. DEVELOPER SHALL SUBMIT SHOP DRAWINGS OF INTERDUCT AND HANDHOLE, FOR REVIEW AND APPROVAL.



MAJOR COLLECTOR



MAJOR COLLECTOR  
ALTERNATE A

COMMERCIAL COLLECTOR

**FINAL REVIEW COPY, 02/18/10**



## CONSTRUCTION STANDARDS

TOWN OF CICERO, INDIANA

P.O. BOX 391  
CICERO, IN 46034

## REVISIONS

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**CERTIFIED BY:**

**Scale:**

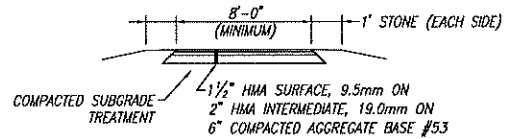
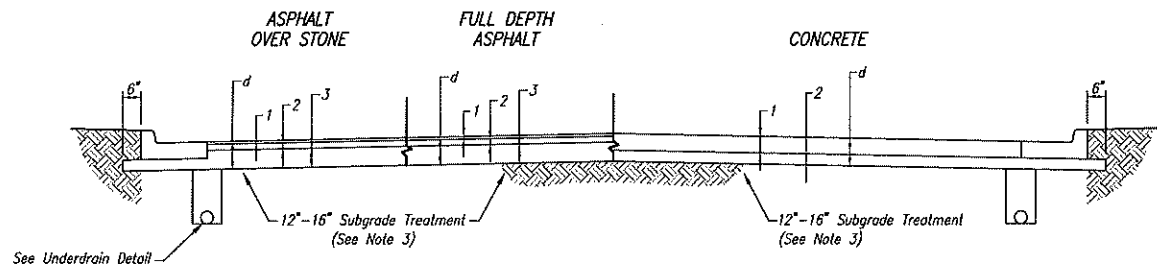
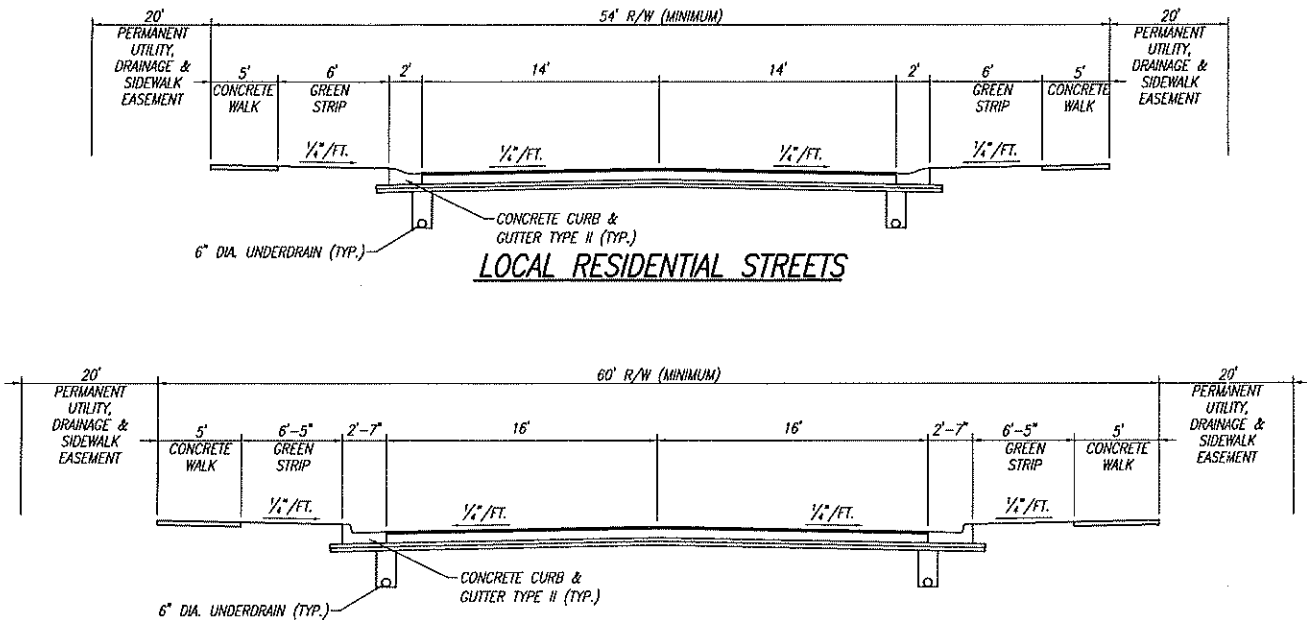
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Sheet:

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Date: \_\_\_\_\_

8/11/09



NOTE:

1. TOWN MAY REQUIRE INCREASED CROSS-SECTION AND/OR WIDTH OF PATH DEPENDENT ON DESIGNATED USE AND/OR LOCATION.

PEDESTRIAN PATH DETAIL

LOCAL RESIDENTIAL STREETS

LOCAL COMMERCIAL STREETS

LOCAL/RESIDENTIAL

- | $d = 1\frac{1}{2}"$                  | $d = 9\frac{1}{2}"$                  | $d = 10"$                         |
|--------------------------------------|--------------------------------------|-----------------------------------|
| ① $1\frac{1}{2}"$ HMA Surface, 9.5mm | ① $1\frac{1}{2}"$ HMA Surface, 9.5mm | ① 6" Concrete                     |
| ② 4" HMA Intermediate, 19.0mm        | ② 3" HMA Intermediate, 19.0mm        | ② 4" Compacted Aggregate Base #53 |
| ③ 8" Compacted Aggregate Base #53    | ③ 5" HMA Base, 25.0mm                |                                   |

MAJOR COLLECTOR

- | $d = 16\frac{1}{2}"$                 | $d = 14\frac{1}{2}"$                 | $d = 18"$  |
|--------------------------------------|--------------------------------------|--|
| ① $1\frac{1}{2}"$ HMA Surface, 9.5mm | ① $1\frac{1}{2}"$ HMA Surface, 9.5mm | ① 9" Concrete  |
| ② 3" HMA Intermediate, 19.0mm        | ② 3" HMA Intermediate, 19.0mm        | ② 3" Coarse Aggregate #8 Over<br>6" Coarse Aggregate #53 |
| ③ 4" HMA Base, 25.0mm                | ③ 4" HMA Base, 25.0mm                |  |
| ④ 2" HMA Intermediate, C19.0mm       | ④ 2" HMA Intermediate, C19.0mm       |  |
| ⑤ 6" Compacted Aggregate Base #53    | ⑤ 4" HMA Base, 25.0mm                |  |

PRIMARY ARTERIAL/SECONDARY ARTERIAL/COMMERCIAL COLLECTOR

- | $d = 19\frac{1}{2}"$                 | $d = 16\frac{1}{2}"$                 | $d = 19"$  |
|--------------------------------------|--------------------------------------|--|
| ① $1\frac{1}{2}"$ HMA Surface, 9.5mm | ① $1\frac{1}{2}"$ HMA Surface, 9.5mm | ① 10" Concrete   |
| ② 3" HMA Intermediate, 19.0mm        | ② 3" HMA Intermediate, 19.0mm        | ② 3" Coarse Aggregate #8 Over<br>6" Coarse Aggregate #53 |
| ③ 4" HMA Base, 25.0mm                | ③ 4" HMA Base, 25.0mm                |  |
| ④ 2" HMA Intermediate, C19.0mm       | ④ 2" HMA Intermediate, C19.0mm       |  |
| ⑤ 3" HMA Base, 25.0mm                | ⑤ 6" HMA Base, 25.0mm                |  |
| ⑥ 6" Compacted Aggregate Base #53    |                                      |  |

## PAVEMENT CONSTRUCTION

SCALE: NONE

GENERAL NOTES:

1. THE RIGHT-OF-WAY WIDTH, PAVEMENT WIDTHS AND CASEMENT WIDTHS INDICATED ON THIS SHEET ARE MINIMUM DISTANCES REQUIRED BY THE TOWN OF CICERO. GREATER WIDTHS MAY BE PROVIDED. THE CONTRACTOR SHALL REVIEW THE PLOT AND THE PLANS TO CONFIRM THE VARIOUS WIDTH INDICATED ON THIS SHEET AND SHALL REPORT ANY DISCREPANCY TO THE TOWN OF CICERO PRIOR TO PROCEEDING WITH CONSTRUCTION.
2. WHERE NEW SIDEWALK CONNECTS TO EXISTING SIDEWALK, THE WIDTH OF NEW SIDEWALK SHALL MATCH WIDTH OF EXISTING SIDEWALK OR BE A MINIMUM OF 5' WHICHEVER IS GREATER.
3. STANDARD PAVEMENT MARKINGS SHALL BE IN STREETS/ROAD AS SHOWN, IN ACCORDANCE WITH THE MOST RECENT INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. FOR ASPHALT PAVEMENTS, ALL PAVEMENT MARKINGS TO BE THERMOPLASTIC. FOR CONCRETE PAVEMENTS, ALL PAVEMENT MARKINGS SHALL BE EPOXY. 4" WIDE DASHED WHITE THERMOPLASTIC SHALL BE PLACED TO DENOTE SAME DIRECTION TRAVEL LANES. 4" WIDE DOUBLE YELLOW THERMOPLASTIC SHALL BE PLACED TO DENOTE SEPARATION OF DIRECTIONAL TRAFFIC.
4. ACCELERATION/DECELERATION LANES AND PASSING BLUSTERS SHALL BE CONSTRUCTED FOR ALL NEW DEVELOPMENT ENTRANCES, WHICH CONNECT TO A PRIMARY ARTERIAL, MAJOR COLLECTOR, OR INDOT RIGHT-OF-WAY.
5. LOCAL RESIDENTIAL STREETS SHALL HAVE A 150 FEET MINIMUM CENTERLINE RADIUS.
6. FOR ANY DEVELOPMENT, WHICH DIRECTLY ADJOINS A PRIMARY ARTERIAL, SECONDARY ARTERIAL, OR MAJOR COLLECTOR, AS DEPICTED ON THE CICERO THOROUGHFARE PLAN, THE DEVELOPER SHALL CONDUCT THE FOLLOWING FOR SAID ROADWAY(S):
  - a. HIRE AN INDEPENDENT TESTING LABORATORY TO COLLECT PAVEMENT CORE SAMPLES EVERY 400 FEET, BUT NO LESS THAN TWO SAMPLES PER ROADWAY. A WRITTEN SUMMARY, WHICH ILLUSTRATES THE AGGREGATE SUBGRADE THICKNESS AND PAVEMENT THICKNESS, SHALL BE SUBMITTED TO THE TOWN OF CICERO.
  - b. DEVELOPER SHALL REPAIR ALL PAVEMENT FAILURES, AS DETERMINED BY THE TOWN OF CICERO.
  - c. DEVELOPER SHALL WIDEN ADJACENT TRAVEL LANE AND SHOULDER, AS SHOWN THIS SHEET.
  - d. DEVELOPER SHALL WIDEN EXISTING CULVERTS AND BRIDGE STRUCTURES WITHIN THE LIMITS OF THE DEVELOPMENT.
  - e. FOLLOWING THE SUCCESSFUL COMPLETION OF WIDENING ADJACENT TRAVEL LANE(S), THE ENTIRE ROADWAY SHALL RECEIVE AN OVERLAY OF 165#/cys. OF H.A.C. SURFACE #11. THE THICKNESS OF THE OVERLAY SHALL BE INCREASED AS REQUIRED TO PRODUCE A MINIMUM TOTAL PAVEMENT THICKNESS OF 6".
  - f. DEVELOPER SHALL ONLY BE RESPONSIBLE FOR IMPROVING EXISTING THOROUGHFARE ROADWAYS, BETWEEN THE LIMITS OF THE DEVELOPMENT.
7. MINOR ROADWAY DRAINAGE IMPROVEMENTS SHALL BE INCLUDED WITH THE PAVEMENT WIDENING, SUCH AS REGRADING OF DRAINAGE SWALES AND/OR INSTALLATION OF ROADWAY PIPE CULVERTS.
8. THE DEVELOPER SHALL TRY TO OBTAIN TWO ACCESS ENTRANCES FOR ALL DEVELOPMENTS WITH A MULTISECTIONED SUBDIVISION FOR EMERGENCY INGRESS AND EGRESS. THESE ACCESS ENTRANCES APPLY TO ALL RESIDENTIAL AND/OR COMMERCIAL SUBDIVISIONS. ONE ENTRANCE MAY BE IN THE FORM OF A TEMPORARY ENTRANCE THAT IS CONSTRUCTED IN A MANNER TO HANDLE AND SUPPORT LARGE EMERGENCY VEHICLES WHEN NEEDED. THIS ENTRANCE CAN BE MOVED OR REMOVED UPON COMPLETION OF ANY PARTICULAR SECTION WITHIN THE SUBDIVISION THAT PROVIDES TWO PERMANENT ACCESS ENTRANCES. IT IS NOT THE INTENT OF THE TOWN TO MANDATE WHERE ENTRANCES ARE TO BE PLACED. IT IS RATHER TO PROVIDE TEMPORARY EMERGENCY ACCESS WHEN NEEDED. THE LOCATION OF THE TEMPORARY ENTRANCE CAN BE DISCUSSED IN MORE DETAIL AT A T.A.C. MEETING WITH THE TOWN OF CICERO'S FIRE CHIEF AND CHIEF OF POLICE.
9. THE LOCAL RESIDENTIAL STREETS DETAIL MAY BE USED ONLY WHEN LOTS ARE SIZED SUCH THAT RESIDENTIAL DRIVEWAYS CAN ACCOMMODATE FOUR (4) PARKED VEHICLES WITHOUT BLOCKING THE SIDEWALK. IF FOUR (4) PARKED VEHICLES CANNOT BE ACCOMMODATED, RESIDENTIAL STREETS MUST HAVE THE WIDTHS SPECIFIED IN LOCAL COMMERCIAL STREETS DETAIL. A VEHICLE PARKING SPACE IS DEFINED BY A 10'x20' AREA.
10. SEE SHEET 16 FOR LIGHTING SPECIFICATION.

PAVEMENT CONSTRUCTION:

1. SUBBASE AND SUBGRADE SHALL BE PLACED TO AT LEAST 100 PERCENT OF MAXIMUM DRY DENSITY, IN ACCORDANCE WITH AASHTO T99. COMPACTION TESTS SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY. TEST RESULTS SHALL BE SUBMITTED TO THE TOWN OF CICERO FOR CONSIDERATION OF ACCEPTANCE OF MAINTENANCE BOND. ONE IN-PLACE DENSITY TEST SHALL BE COMPLETED FOR EACH LIFT FOR EVERY 400 LINEAR FEET PER TRAFFIC LANE. COARSE AGGREGATE SHALL NOT BE PLACED WHEN AMBIENT TEMPERATURE IS BELOW 35°F NOR PLACED ON FROZEN SUBBASE OR SUBGRADE.
2. APPLY TACK COAT BETWEEN BINDER AND SURFACE COURSES OF ASPHALT PAVEMENT, IMMEDIATELY PRIOR TO APPLICATION OF SURFACE COURSE. APPLY TACK COAT TO CONTACT SURFACES OF PREVIOUSLY CONSTRUCTED ASPHALT OR CONCRETE SURFACES ADJACENT ASPHALT PAVEMENT. TACK COAT SHALL BE DISTRIBUTED AT A RATE OF 0.05 TO 0.15 GALLONS PER SQUARE YARD OF SURFACE AREA, AND IN ACCORDANCE WITH THE MOST RECENT INDOT STANDARD SPECIFICATIONS. APPLICATION OF TACK COAT SHALL ONLY BE PERMITTED WHEN BINDER COURSE IS DRY, FREE OF DEBRIS, AND AMBIENT TEMPERATURE IS 40°F AND RISING.
3. WHEREVER RIGID PAVEMENT IS TO BE USED, THE CONTRACTOR SHALL SUBMIT A DETAILED PAVING PLAN TO THE TOWN OF CICERO. THE PAVING PLAN SHALL ILLUSTRATE THE LOCATION AND TYPE OF JOINTING TO BE USED IN THE CONSTRUCTION. THE LOCATION AND TYPE OF JOINTING SHALL MEET THE REQUIREMENTS OF THE MOST RECENT INDOT STANDARD DETAILS.
4. THE PRIMARY AND SECONDARY ARTERIAL PAVEMENT SECTION THICKNESS SHOWN ARE MINIMUM REQUIREMENTS. CALIFORNIA BEARING RATIO (CBR) TESTS SHALL BE PERFORMED TO VERIFY PAVEMENT THICKNESS DESIGNS. CBR TESTS SHALL BE SUBMITTED TO THE TOWN OF CICERO AS PART OF THE T.A.C. SUBMITTAL.
5. CONCRETE CURBS AND SIDEWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH INDOT SPECIFICATIONS, SECTIONS 604 AND 605. CONTROL JOINTS SHALL BE SPACED 10 FEET APART. SAW CUTS OF TOOLED JOINTS SHALL BE UNIFORM, VERTICAL AND NEAT.
6. CONSTRUCT HOT-MIXED ASPHALT SURFACE COURSE WHEN AMBIENT TEMPERATURE IS ABOVE 40°F AND RISING. BINDER AND BASE COURSES SHALL BE PLACED WHEN AMBIENT TEMPERATURE IS ABOVE 30°F AND RISING.
7. FOR COLI-WEATHER CONCRETE PLACEMENT, CONTRACTOR SHALL COMPLY WITH PROVISIONS OF ACI 308R FOR PROTECTION FROM PHYSICAL DAMAGE OR REDUCED STRENGTH. FOR HOT WEATHER CONCRETE PLACEMENT, CONTRACTOR SHALL COMPLY WITH PROVISIONS OF ACI 305R FOR PROTECTION FROM PHYSICAL DAMAGE OR REDUCED STRENGTH, AS ASSOCIATED WITH RAPID MOISTURE LOSS.
8. PROVIDE AIR CONTENT AND CONCRETE SLUMP TEST IN ACCORDANCE WITH ASTM C143 WITH ONE TEST AT POINT OF DISCHARGE FOR EACH DAYS POUR OF EACH TYPE OF CONCRETE; ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY SEEMS TO HAVE CHANGES.
9. PROVIDE ONE SET OF THREE (3) STANDARD CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST. MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURED SPECIMENS ARE REQUIRED. ONE SET FOR EACH DAYS POUR EXCEEDING 5 CU. YD. PLUS ADDITIONAL SETS FOR EACH OVER 50 CU. YD. OVER AND ABOVE THE FIRST 25 CU. YD. OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY; ONE SPECIMEN TESTED AT 7 DAYS, ONE SPECIMEN TESTED AT 28 DAYS, AND ONE SPECIMEN RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED. COMPRESSIVE STRENGTH TESTS IN ACCORDANCE WITH ASTM C39.
10. ALL CONCRETE AND ASPHALT TESTS TO BE PERFORMED BY A TOWN APPROVED INDEPENDENT TESTING LABORATORY.

**FINAL REVIEW COPY, 02/18/10**

**CONSTRUCTION STANDARDS**

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**RIGHT-OF-WAY & UTILITY EASEMENT GUIDELINES & PAVEMENT REQUIREMENTS**

TOWN OF CICERO, INDIANA

P.O. BOX 391  
CICERO, IN 46034

## REVISIONS

[illegible]

**CERTIFIED BY:**

**Scale:**

NONE

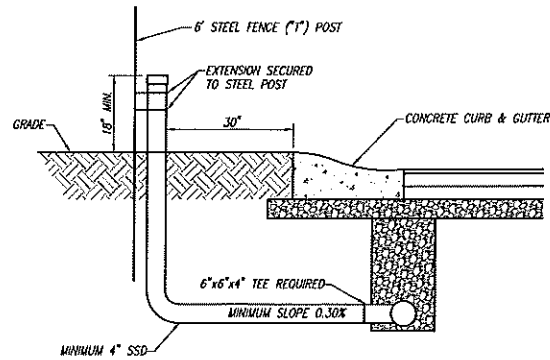
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Date: \_\_\_\_\_

8/11/09



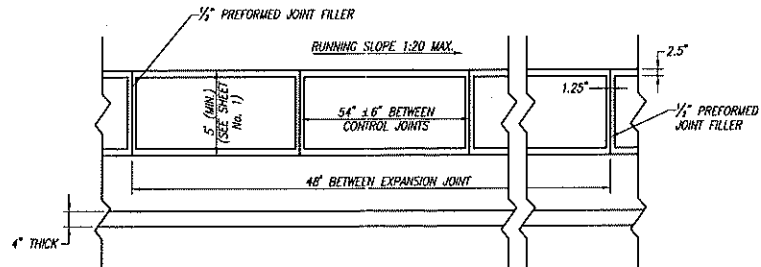


SUBSURFACE DRAIN/SUMP PUMP CONNECTIONS

1. THE SUBSURFACE CONNECTION POINT AND PIPING SHALL BE CONSTRUCTED SIMULTANEOUSLY WITH THE CURB UNDERDRAIN.
2. REFER TO CURB UNDERDRAIN DETAIL, SHOWN ON THIS SHEET.
3. DOWN SPOUTS FROM ROOF GUTTERING IS NOT PERMITTED TO DISCHARGE INTO THE SHOWN DRAINAGE SYSTEM.
4. THE TEMPORARY EXTENSION, ABOVE GROUND, SHALL BE REMOVED UPON CONNECTION TO HOUSE.
5. IF SUBSURFACE DRAIN EXTENSION IS NOT UTILIZED, THEN IT SHALL BE CAPPED BELOW FINISHED GRADE OF SOL. THE TERMINATION OF A SUBSURFACE DRAIN SHALL BE INSPECTED BY THE TOWN OF COCKER POND TO BACKFILL.
6. CONTRACTOR SHALL, WHEN CURBS ARE AVAILABLE, ENGRAVE A 1/2" HIGH BY 1/2" DEEP "D" ON THE CURB DIRECTLY ABOVE EACH SUBSURFACE DRAIN. WHEN CURBS ARE NOT AVAILABLE, CONTRACTOR SHALL NOTCH THE SIDEWALK DIRECTLY ABOVE EACH SUBSURFACE DRAIN. SEE CURB STAMP DETAIL ON THIS SHEET.

### SUMP PUMP DETAIL

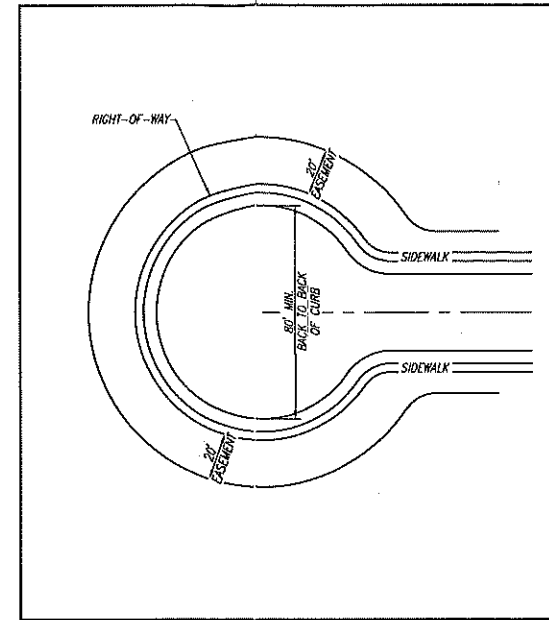
SCALE: NONE



1. CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON ALL RAMPS WITH NO GRADE BREAKS.
2.  $\frac{1}{2}$ " PREFORMED JOINT FILLER SHALL BE INCORPORATED WHEN ABUTTING CONCRETE CURBS.
3. ALL OTHER WALLS, OTHER FILL OBJECTS, AND A SPACING OF 48 FEET OF WALK.
4. SURFACE TEXTURE SHALL BE THAT OBTAINED BY A COURSE BROODING, WITH A 2.5" WIDE SMOOTH TROWEL FINISH FOR THE PERIMETER OF EACH SIDEWALK PANEL. AT CONSTRUCTION JOINTS, THE ABUTTING SMOOTH TROWEL FINISH SHALL BE 1.25" WIDE.
5. DISTANCE BETWEEN CONSTRUCTION JOINTS SHALL BE CONSISTENT BETWEEN DRIVEWAYS.
6. ALL CONCRETE SIDEWALKS SHALL BE 4" THICK, EXCEPT AT RESIDENTIAL DRIVE CROSSINGS WHERE THE MINIMUM THICKNESS SHALL BE 6". AT COMMERCIAL DRIVES, THE CONCRETE SIDEWALK THICKNESS SHALL BE 6".
7. ALL CONCRETE SHALL BE AIR ENTRAINED (5%  $\pm$  1%), MINIMUM 4,000 psi COMPRESSIVE STRENGTH.

### SIDEWALK DETAIL

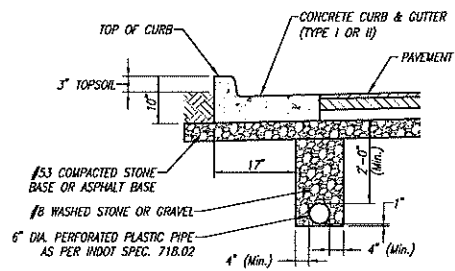
SCALE: NONE



NOTE: CUL-DE-SAC ROADWAYS SHALL BE A MAXIMUM OF 600' IN LENGTH.

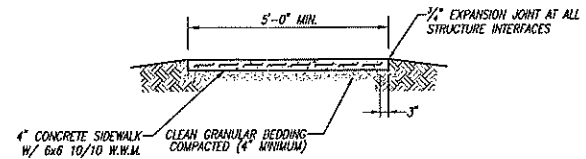
CUL-DE-SAC

SCALE: NONE



### CURB UNDERDRAIN DETAIL

SCALE: ABOVE



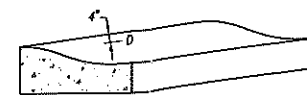
1. DEVELOPER RESPONSIBLE FOR PROPER DRAINAGE OF SIDEWALK TO MINIMIZE SURFACE PONDING. DRAINAGE CROSSINGS SHALL BE PROVIDED AT ALL DRAINAGE FLOW POINTS.

**TYPICAL SIDEWALK DETAIL**

NOT TO SCALE

- 3" HIGH LETTER SHALL BE STAMPED AS FOLLOWS:

S - SANITARY SEWER LATERAL  
D - SUBSURFACE DRAIN  
C - CONDUIT  
G - GAS SERVICE  
W - WATER SERVICE



NOTE:

1. CURB SHALL BE STAMPED AT ALL LOCATIONS WHERE ANY OF THE ABOVE PASS UNDER A CURB.
2. LETTER SHALL BE STAMPED PRIOR TO CONCRETE SETTING UP, WHENEVER POSSIBLE.
3. STAMP SHALL BE 1/2" DEEP.

**CURB STAMP DETAIL**

SCALE: NONE

**FINAL REVIEW COPY, 02/18/10**



CONSTRUCTION STANDARDS  
MISCELLANEOUS DETAILS AND NOTES

TOWN OF CICERO, INDIANA

P.O. BOX 391  
CICERO, IN 46034

## REVISIONS

[illegible]

**CERTIFIED BY:**

**Scale:**

AS NOTED

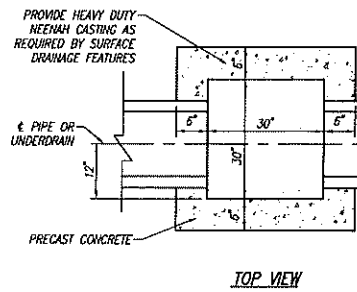
Sheet:

5 of 17

Date: \_\_\_\_\_

8/11/09

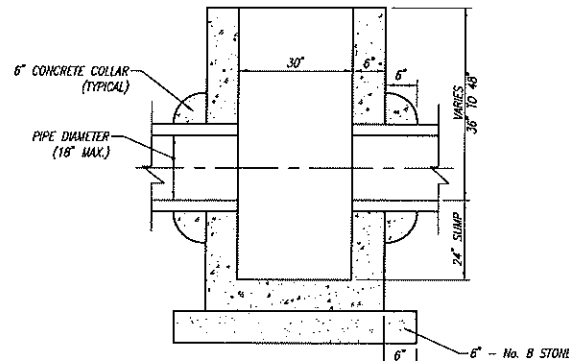
File Name: P:\DD2\08-904-10 Cicero - Construction Standards.dwg (dwg) STORM SEWER DETAILS AND NOTES.dwg Date: 2/19/2010 8:53:22 AM Plotted: Brownell, Chris



TOP VIEW

NOTES:

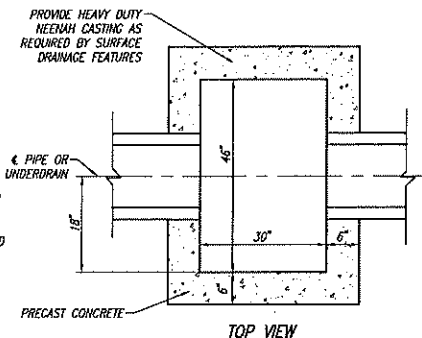
1. SEE PLANS FOR CASTING SIZE AND TYPE.
2. ALL CONNECTING PIPES SHALL BE GROUTED WITH A 6" CONCRETE COLLAR WITH 3500 PSI CONCRETE.
3. REINFORCEMENT SHALL CONFORM TO ASTM A-615, GRADE 40. CONCRETE FOR PRECAST UNITS SHALL CONFORM TO ASTM C-478.
4. THE CATCH BASIN SHALL BE BACK-FILLED PER PLANS AND SPECIFICATIONS.
5. THE COST OF THE CATCH BASIN SHALL INCLUDE ALL OF THE ABOVE ITEMS.



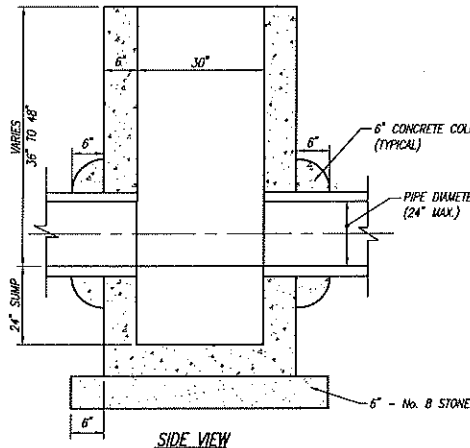
SIDE VIEW

CATCH BASIN, TYPE A

SCALE: NONE



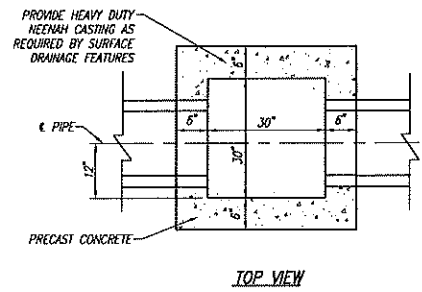
TOP VIEW



SIDE VIEW

CATCH BASIN, TYPE B

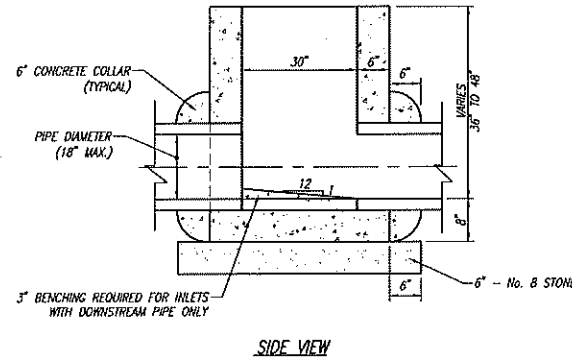
SCALE: NONE



TOP VIEW

INLET NOTES:

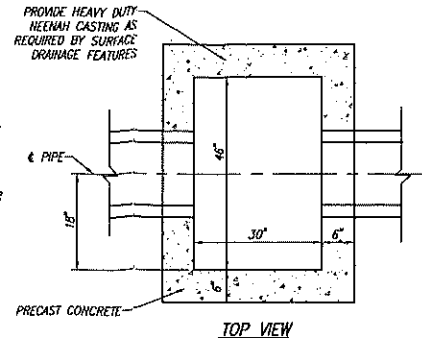
1. SEE PLANS FOR CASTING SIZE AND TYPE.
2. ALL CONNECTING PIPES SHALL BE GROUTED WITH A 6" CONCRETE COLLAR WITH 3500 PSI CONCRETE.
3. REINFORCEMENT SHALL CONFORM TO ASTM A-615, GRADE 40. CONCRETE FOR PRECAST UNITS SHALL CONFORM TO ASTM C-478.
4. THE INLET SHALL BE BACK-FILLED PER PLANS AND SPECIFICATIONS.



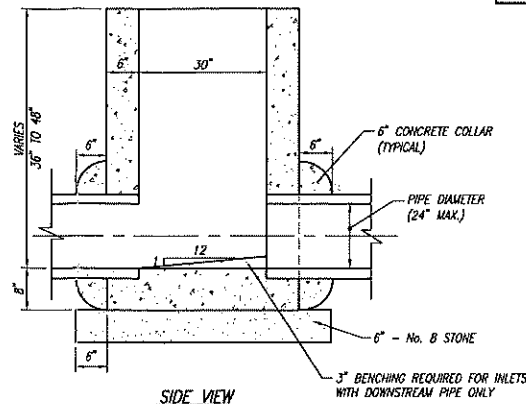
SIDE VIEW

INLET, TYPE A

SCALE: NONE



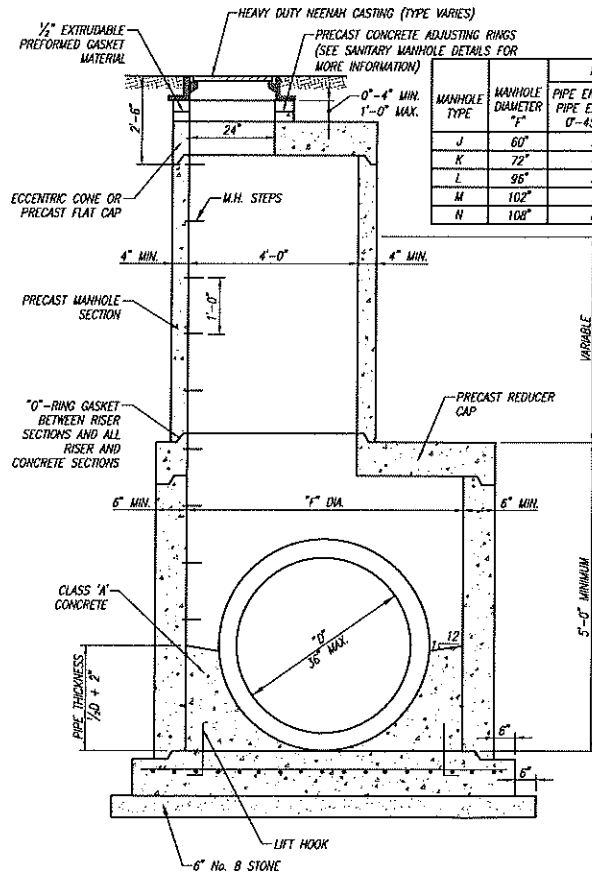
TOP VIEW



SIDE VIEW

INLET, TYPE B

SCALE: NONE

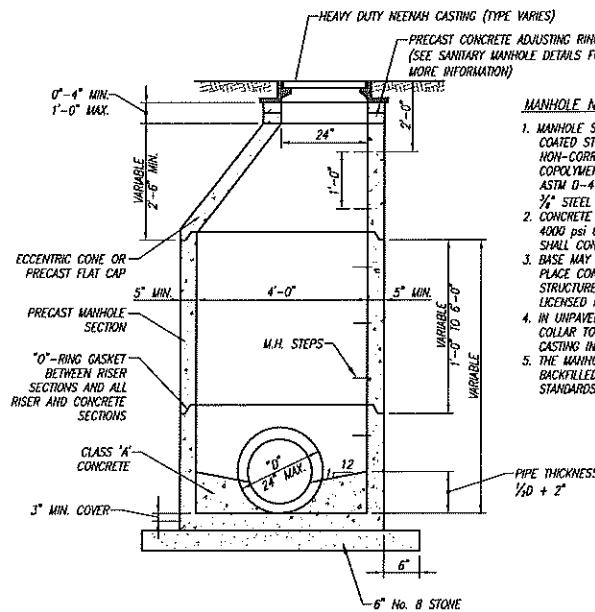


MANHOLES, TYPE J, K, L, M and N

SCALE: NONE

MANHOLE TYPE	MANHOLE DIAMETER	MAXIMUM PIPE SIZE "D"	
		PIPE ENTERING / PIPE EXITING AT 0°-45° BEND	PIPE ENTERING / PIPE EXITING AT 45°-90° BEND
J	60"	36"	33"
K	72"	48"	36"
L	96"	54"	48"
M	102"	72"	66"
N	108"	84"	72"

MAXIMUM PIPE SIZE "D"	
PIPE ENTERING / PIPE EXITING AT 0°-45° BEND	PIPE ENTERING / PIPE EXITING AT 45°-90° BEND
24"	21"

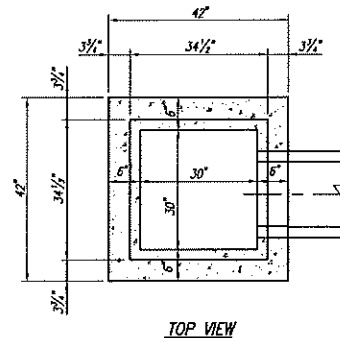


MANHOLE, TYPE C

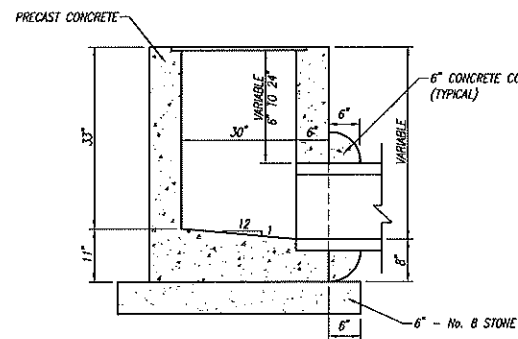
SCALE: NONE

MANHOLE NOTES:

1. MANHOLE STEPS SHALL BE POLYPROPYLENE COATED STEEL REINFORCING OR APPROVED HIGH-CORROSION FIBERGLASS MATERIAL. COPOLYMER POLYPROPYLENE SHALL MEET ASTM D-4101 REINFORCED WITH DEFORMED 3/8" STEEL MEETING ASTM A-615, GRADE 60.
2. CONCRETE FOR POURED BASE SHALL BE 4000 PSI CONCRETE. PRECAST CONCRETE SHALL CONFORM TO ASTM C-478.
3. BASE MAY BE PRECAST OR POURED IN PLACE CONCRETE. CAST-IN-PLACE STRUCTURES SHALL BE CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER.
4. IN UNPAVED AREAS USE A 6" CONCRETE COLLAR TO HOLD GRADE RINGS AND CASTING IN PLACE.
5. THE MANHOLE AND STRUCTURES SHALL BE BACKFILLED PER TOWN OF CICERO STANDARDS.



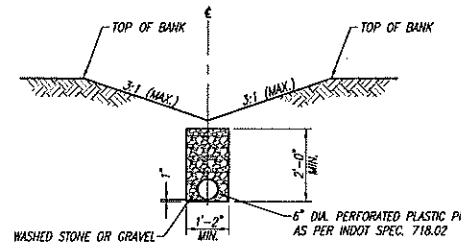
TOP VIEW



SIDE VIEW

INLET, TYPE E

SCALE: NONE

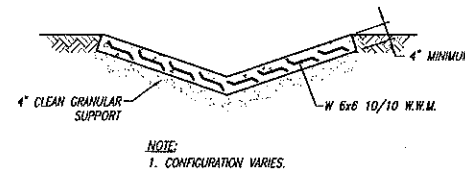


NOTES:

1. UNDERDRAINS REQUIRED FOR ALL VEGETATED SWALES WITH SLOPE BETWEEN 0.5% AND 1%.
2. SWALES WITH SLOPE BETWEEN 0.2% AND 0.5% SHALL BE CONCRETE LINED. (SEE DETAIL THIS SHEET). REVIEW OF CONCRETE SWALES WILL BE ON A CASE BY CASE BASIS.

SWALE UNDERDRAIN DETAIL

SCALE: NONE



NOTE:

1. CONFIGURATION VARIES.

CONCRETE CHANNEL DETAIL

SCALE: NONE

FINAL REVIEW COPY, 02/18/10

CONSTRUCTION STANDARDS

STORM SEWER DETAILS AND NOTES

TOWN OF CICERO, INDIANA

P.O. BOX 391

CICERO, IN 46034

REVISIONS

Rev. No. Description Date

CERTIFIED BY:

Scale:

AS NOTED

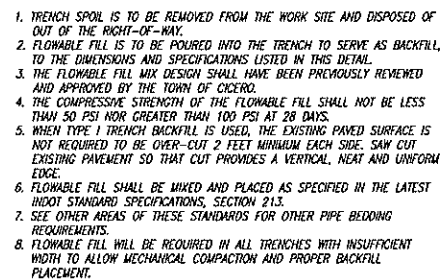
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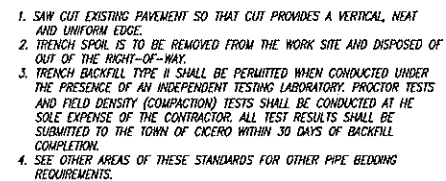
Date:

8/11/09





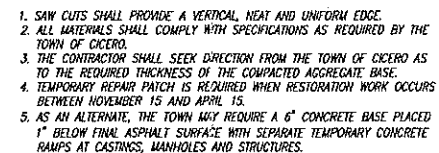
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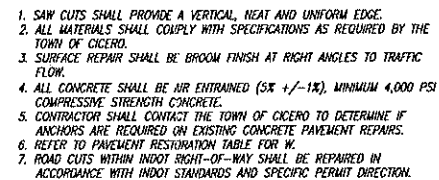
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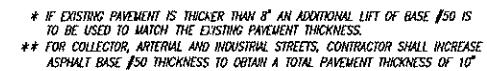
NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE

I.D. = PIPE OR CONDUIT INSIDE DIAMETER

## CONSTRUCTION STANDARDS

## STREET RESTORATION DETAILS

TOWN OF CICERO, INDIANA

P.O. BOX 391  
CICERO, IN 46034

## REVISIONS

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**CERTIFIED BY:**

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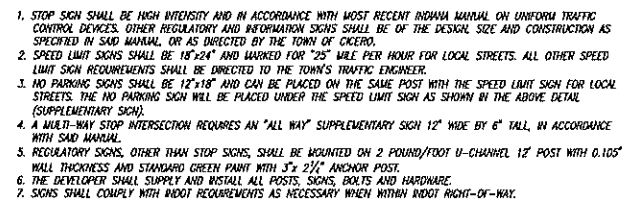
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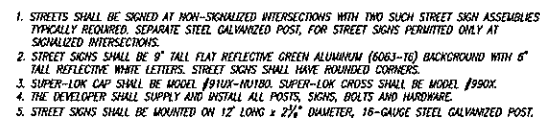
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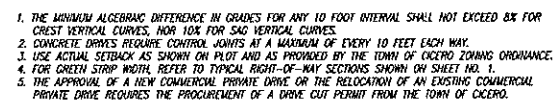
8/11/09



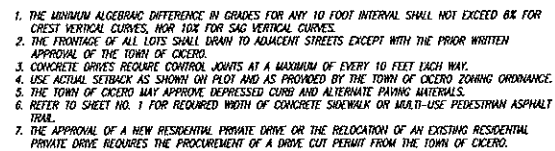
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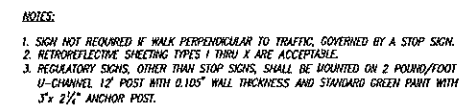
NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



SCALE:  $1/8" = 1'-0"$

**CERTIFIED BY:**

Scale:  
**AS NOTED**

Sheet:  
**8 of 17**

Date:  
**8/11/09**

## Attachment A3

### **General Requirements for Final Inspection**

- I. All excavations within the public right-of-way shall be backfilled with select granular fill material and properly mechanically compacted **except where flowable fill is required.**
1. Asphalt pavement shall cut straight and neatly with a chisel blade or saw. The pavement and base material shall be replaced according to the latest version of the Town of Cicero Code of Ordinances. All seams shall be tacked coated and shall be ironed as necessary to provide a perfect joining of the patch with the surrounding pavement. **Cold mix asphalt will not be accepted as permanent patches.**
2. Concrete pavement shall be saw cut. The new concrete patch shall be saw cut. Concrete patches shall be placed using at least 3,500 p.s.i. concrete. The edges of the adjoining pavement shall be coated with epoxy adhesive intended for concrete patching. The patching area shall be properly barricaded for at least seven (7) days and the patch shall be treated with a curing compound or a curing membrane.
3. All ditches disturbed by excavation shall be properly graded and sodded.
4. All grassed areas shall be provided with 12 to 16 inches of good top soil and sodded with high-quality sod equal to other grass. Establishment of sod shall be the responsibility of the encroachment application.
5. Upon completion of **all repairs**, the application shall request an inspection to the Cicero Street Commission or their designee.

### **General Requirements for Horizontal Directional Drilling**

1. The CONTRACTOR shall provide all investigation, planning, geotechnical work, equipment, labor, etc. necessary to properly install the proposed directional bores as indicated in the construction plans by using horizontal directional drilling (directional boring) technology. Pipe materials shall match those indicated on the plans.
2. CONTRACTOR shall daylight or physically verify existing utility lines at 50 foot intervals on proposed bore path prior to drilling.
3. **Depths of all existing utilities must be confirmed by the CONTRACTOR prior to the crossing to avoid conflicts.** Proper connection to the piping at each end shall be done by standard excavation. The CONTRACTOR shall be responsible to provide a slurry containment pit and shall remove all excess material and dispose of appropriately off-site upon completion. All erosion control facilities shall be provided to contain any solids from migrating beyond the project site. The CONTRACTOR shall be required to provide all necessary water in accordance with other applicable sections of these specifications. Excavated areas for utility confirmation shall be properly backfilled.
4. All directional drilling operations shall be performed by a qualified directional drilling CONTRACTOR with at least (3) years' experience involving work of a similar nature to the work required of this project.

Attachment A4  
Costs

The costs shown on this attachment are subject to change only with the approval of the Town of Cicero Town Council.

Permitting –

Handhole/Structure - \$100.00/each  
Pipe/Cable Per Foot - .10 each  
Road Crossing (Bore) - \$100.00/each  
Inspection - \$100.00/each (every structure set & every road crossing)

Manpower –

Labor - \$50.00/hour  
Operator - \$65.00/hour  
Backhoe - \$120.00/hour  
Loader - \$150.00/hour

Traffic Maintenance –

Cones - \$10.00/each/hour  
Barricades - \$30.00/hour  
Steel Plates - \$50.00/hour

Vehicles –

Pickup - \$50.00/hour  
Single Axle - \$85.00/hour plus dump fees  
Tandem - \$100.00/hour plus dump fees  
Vac Truck - \$300.00/hour plus dump fees

This list does not reflect all costs, or does it imply maximum charges that can incur with all penalties of this ordinance. Material costs of asphalt and/or concrete are not listed due to price variations with vendors and quantities.

**\*\*A minimum of one (1) hour will be charged on all labor and equipment\*\***