

CONSTRUCTION PLANS FOR

WILLOW AVENUE WEST STREET TO WHEATON AVENUE UTILITY IMPROVEMENTS

FOR THE
CITY OF WHEATON
DuPAGE COUNTY, ILLINOIS

INDEX OF DRAWINGS

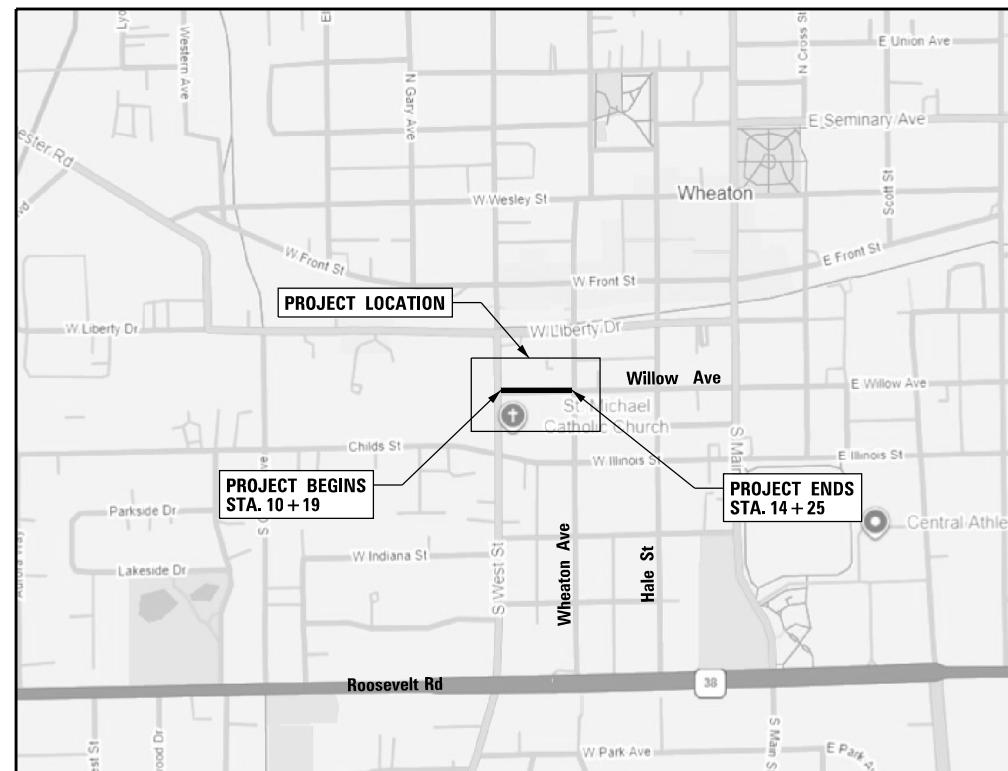
- 1 COVER SHEET
- 2 GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTIONS
- 5 ALIGNMENTS AND BENCHMARKS
- 6 EXISTING CONDITIONS AND REMOVALS PLAN
- 7 PROPOSED WATER MAIN PLAN AND PROFILE
- 8 PROPOSED SANITARY SEWER PLAN AND PROFILE
- 9 EROSION CONTROL AND LANDSCAPING PLAN
- 10 MAINTENANCE OF TRAFFIC PLAN
- 11 PAVEMENT MARKING PLAN
- 12-18 CITY OF WHEATON STANDARDS
- 19-21 DISTRICT ONE DETAILS
- STATE STANDARDS

LIST OF DISTRICT ONE DETAILS:

- BD-22 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-13 TYPICAL PAVEMENT MARKINGS

LIST OF STATE STANDARDS:

- 424001-12 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 606001-08 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W MOVING OPERATIONS- DAY ONLY
- 701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701611-01 URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-10 TRAFFIC CONTROL DEVICES
- 720006-04 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS



LOCATION MAP

LENGTH OF PROJECT TOTAL = 430 FEET (0.08 MILES)

J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

FILE NAME: 13_Proj05_Wheaton_Willow_Avenue_Utility_Improvements (City Project # 25-129)05_CADD01.MDW03.SHT01_Willow_Ave Title Sheet.dwg

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CITY OF WHEATON
WILLOW AVENUE UTILITY IMPROVEMENT

| | |
|---|--|
| SIGNED: <u>DONALD KINZLER, P.E., CFM</u> | |
| DATE: <u>IL REGISTRATION NUMBER: 062-063193</u> <u>EXPIRES: 11/30/2027</u> | |
| CITY OF WHEATON | |
| SUBMITTED: <u>, 20</u> <u>_____</u> | |



DRAWING NO.
1 OF 21

GENERAL NOTES:

- ALL EXCESS MATERIAL (BROKEN CONCRETE, ASPHALT, CULVERT PIPE, WASTE ROADWAY EXCAVATION, AND SURPLUS MATERIALS FROM UTILITY TRENCHES) SHALL BE WASTED OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMPING SITES. HE/SHE SHALL PROVIDE A LIST OF THESE SITES TO THE ENGINEER FOR HIS/HER EXAMINATION AND GENERAL INFORMATION.
- ALL PROPERTY AND SURFACE STRUCTURES WITHIN THE RIGHT-OF-WAY SHALL BE PROTECTED DURING CONSTRUCTION OPERATIONS UNLESS THE ENGINEER DIRECTS REMOVAL FOR PURPOSES RELATED TO CONSTRUCTION UNDER THIS CONTRACT. ANY FENCES, POLES, FLAGSTONE, DECORATIVE STONE, SPECIAL LANDSCAPING, OR OTHER MAN MADE SURFACE IMPROVEMENT WHICH IS REMOVED OR DISTURBED BY THE CONTRACTOR SHALL BE RESTORED BY HIM TO ITS ORIGINAL CONDITION AFTER THE CONSTRUCTION ACTIVITIES ARE COMPLETED. ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM THIS WORK SHALL BE INCLUDED IN THE CONTRACT.
- ALL FRAMES, GRATES, LIDS, FIRE HYDRANTS, AND VALVE BOXES WHICH ARE REMOVED AND ARE TO BE ABANDONED SHALL REMAIN THE PROPERTY OF THE CITY OF WHEATON. ANY OF THESE ITEMS WHICH ARE DAMAGED BY THE CONTRACTOR DURING HANDLING SHALL BE REPLACED BY HIM AT HIS EXPENSE. NO ADDITIONAL COMPENSATION SHALL BE GIVEN FOR SALVAGING THESE ITEMS. UPON REMOVAL FROM THEIR WORKING LOCATIONS, THEY ARE TO BE STOCKPILED AT AN ON-SITE LOCATION DETERMINED BY THE ENGINEER WHERE THEY WILL BE PICKED UP BY CITY PERSONNEL AT THE CONCLUSION OF WORK ON THAT STREET.
- WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE AND PUBLIC DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO ACCEPT ALL STORM WATER THAT WILL BE DELIVERED BY THESE DRAINS AND BASINS AND SHALL DISCHARGE THE SAME. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT AND TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF WATER WHICH IS RECEIVED FROM ALL TEMPORARY CONNECTIONS. THESE TEMPORARY FACILITIES SHALL BE MAINTAINED UNTIL ALL PERMANENT CONNECTIONS ARE COMPLETED.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE FOLLOWED WHEN EXISTING CURB AND GUTTER IS REMOVED AND EXISTING DRAINAGE STRUCTURES ARE TO REMAIN ACTIVE. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DETAIL PROVIDED IN THE CONTRACT DOCUMENTS. ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THIS WORK SHALL BE INCLUDED IN THE CONTRACT LINE ITEM COMBINATION CURB AND GUTTER REMOVAL.
- THE ENGINEER SHALL MARK THE AREAS TO BE MILLED IN THE FIELD.
- PAVEMENT SAW CUTTING FOR ITEMS TO BE REMOVED ON THE PLANS, AS SPECIFIED IN SECTION 440 OF THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER, SHALL BE INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
- THE THICKNESS OF THE HMA SHOWN ON THE PLANS IS NOMINAL. DEVIATIONS MAY OCCUR IN THE FIELD DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE UPON WHICH THE HMA IS BEING PLACED.
- THE ENGINEER SHALL DETERMINE THE LIMITS FOR REPLACEMENT FOR EACH DRIVEWAY BASED ON DRAINAGE AND AESTHETIC CONSIDERATIONS, NOT PAVEMENT CONDITION. ALL SAWCUTTING SHALL BE INCLUDED IN THE REMOVAL OF THE PAVEMENT.
- THE LOCATIONS AND ELEVATIONS OF THE VARIOUS UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL EXERCISE CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR UTILITIES TO PREVENT DAMAGE. THE FAILURE OF A UTILITY COMPANY TO ACCURATELY LOCATE THEIR UTILITY DOES NOT FREE THE CONTRACTOR FROM RESPONSIBILITY. THE MAJOR CONCERN OF THE CITY OF WHEATON IS PUBLIC SAFETY.
- THE CONTRACTOR SHALL COOPERATE WITH THE CITY IN ANY UNDERGROUND UTILITY CONSTRUCTION WHICH THE CITY MAY WANT TO PERFORM DURING THE CONTRACTOR'S OPERATIONS.
- THE CONTRACTOR SHALL HAVE LINE AND/OR FORMS SET A MINIMUM OF FOUR WORKING HOURS PRIOR TO THE SCHEDULED ARRIVAL OF CONCRETE ON SITE FOR THE PLACEMENT OF CURB AND GUTTER, DRIVEWAYS, AND SIDEWALK TO ALLOW THE ENGINEER TIME TO CHECK LINE AND GRADE.
- TRANSITION CURB AND GUTTER FROM THE PROPOSED COMBINATION CONCRETE CURB AND GUTTER SHALL BE PAID FOR AS COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE BEING INSTALLED AS PART OF THIS CONTRACT.
- ALL RADII FOR PROPOSED COMBINATION CONCRETE CURB AND GUTTER SHALL BE PLACED AT THE EXISTING DIMENSION UNLESS OTHERWISE INDICATED ON THE PROJECT PLANS OR AS DIRECTED BY THE ENGINEER. ELEVATIONS SHOWN AT POINT ON THE CURB INDICATED FLOW LINE ELEVATIONS UNLESS NOTED OTHERWISE.
- AGGREGATE BASE COURSE PLACED UNDER THE PROPOSED CURB AND GUTTER SHALL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF THE COMBINATION CURB AND GUTTER. THE QUANTITY OF THIS AGGREGATE SHALL BE OF A DEPTH SUFFICIENT TO BRING THE CURB AND GUTTER TO THE PROPOSED GRADE. ALL GUTTER FLAG SHALL BE A MINIMUM OF NINE INCHES THICK, UNLESS INDICATED OTHERWISE.
- ALL CONSTRUCTION PERSONNEL SHALL BE REQUIRED TO WEAR A FLUORESCENT YELLOW / GREEN SAFETY VEST AT ALL TIMES WHILE ON THE CONSTRUCTION SITE. THIS REQUIREMENT SHALL BE INCLUDED IN THE CONTRACT.

GENERAL NOTES - SEWERS:

- ALL SANITARY SEWER SHALL BE POLYVINYL CHLORIDE WATER-QUALITY PIPE CONFORMING TO SDR-26 (STANDARD DIMENSION RATIO), UNLESS NOTED OTHERWISE.
- ALL STORM SEWER SHALL BE EITHER REINFORCED CONCRETE CULVERT PIPE, OR POLYVINYL CHLORIDE (PVC) PIPE WITH AN SDR RATING OF 26, AS SPECIFIED IN THE PROJECT PLANS AND SPECIFICATIONS.
- EXISTING SANITARY SERVICES SHALL REMAIN ACTIVE UNTIL CONNECTED TO PR. SANITARY SEWER, 8".

SANITARY SEWER INSTALLATION:

- THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS FOR CONSTRUCTION OF SANITARY SEWER PIPE AND ALL ASSOCIATED SANITARY SEWER WORK AND BYPASS OF FLOWS.
- MEANS AND METHODS TO COMPLETE THIS WORK SHALL REQUIRE REVIEW AND APPROVAL BY THE ENGINEER AND CITY.
- EXISTING SERVICES SHALL REMAIN ACTIVE UNTIL CONNECTED TO PR. SANITARY SEWER.
- LANE CLOSURES OF WEST STREET AND WHEATON AVENUE ARE LIMITED TO THE DURATION OF OF SINGLE-DAY WORK HOURS WITH THE CONTRACTOR PRESENT.

| LEGEND | EXISTING | PROPOSED |
|--|----------|----------|
| MAIL BOX | W | |
| HANDHOLD | H | |
| EVERGREEN TREE | | |
| DECIDUOUS TREE | | |
| BUSH | | |
| PAVEMENT BUTT JOINT | | / |
| CONCRETE DRIVEWAY | | |
| ASPHALT DRIVEWAY | | |
| DRIVEWAY / SIDEWALK REMOVAL | | X |
| POWER POLE | O | |
| TELEPHONE BOX | T | |
| B-BOX | O | ● |
| FIRE HYDRANT | O | ● |
| VALVE | O | ● |
| VALVE VAULT | O | ● |
| ABANDON VALVE VAULT | O | ● |
| WATER MAIN | WM | WM |
| MANHOLE | O | ● |
| ABANDON MANHOLE | | X |
| CATCH BASIN | O | ● |
| INLET | | ■ |
| STORM SEWER LINE | | |
| SANITARY SEWER LINE | | ► |
| GAS MAIN | | GAS |
| INDICATES STORM MANHOLE | | 69 |
| INDICATES SANITARY MANHOLE | | 33 |
| INDICATES STORM SEWER STRUCTURE | | 3 |
| INDICATES VALVE TO BE ADJUSTED | | A-VB |
| INDICATES TYPICAL CROSS SECTION LOCATION | | + |

LIST OF ABBREVIATIONS

| | | | |
|--------|--------------------------|-------|--------------------------|
| CB | CATCH BASIN | SF | SQUARE FEET |
| C&G | CURB & GUTTER | SY | SQUARE YARDS |
| DIA. | DIAMETER | T1FCL | TYPE 1 FRAME, CLOSED LID |
| FR | FRAME | T1FOL | TYPE 1 FRAME, OPEN LID |
| HMA | HOT-MIX ASPHALT | WM | WATER MAIN |
| INV. | INVERT | TBA | TO BE ADJUSTED |
| LF | LINEAL FEET | STM | STORM |
| MH | MANHOLE | SAN | SANITARY |
| P.C.C. | PORTLAND CEMENT CONCRETE | WQ | WATER QUALITY |

NOTE: ALL BOXED IN NOTATIONS INDICATE INFORMATION PERTAINING TO WORK TO BE INCLUDED IN THE COST OF SPECIFIC CONTRACT LINE ITEMS.

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 FILE NAME: 13: Projects\25-045\Wheaton\Willow Avenue Utility Improvements\City Project # 25-129\V05_CADD\01_MDD\03_SHT02_Willow Ave General Notes.dwg
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CITY OF WHEATON
WILLOW AVENUE UTILITY IMPROVEMENT

GENERAL NOTES

DRAWING NO. **2** OF **21**

| PAY ITEM | DESCRIPTION | UNIT | TOTAL QUANTITY |
|-------------|--|-------|-------------------|
| 1 | ONE YEAR GUARANTEE | L SUM | 1 |
| 2 | TRAFFIC CONTROL & PROTECTION | L SUM | 1 |
| 3 | CONSTRUCTION LAYOUT | L SUM | 1 |
| 4 | DUST CONTROL WATERING | UNIT | 20 |
| 5 | INLET FILTERS | EACH | 6 |
| 6 | CONCRETE TRUCK WASHOUT | EACH | 1 |
| 7 | TREE PROTECTION | EACH | 5 |
| 8 | TREE ROOT PRUNING | EACH | 4 |
| 9 | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | UNIT | 15 |
| 10 | EXPLORATORY EXCAVATION | EACH | 2 |
| 11 | AGGREGATE FOR TEMPORARY ACCESS | TON | 52 |
| 12 | TEMPORARY PATCHING, 3" | SQ YD | 492 |
| 13 | HMA SURFACE REMOVAL, 3" | SQ YD | 442 |
| 14 | COMBINATION CURB AND GUTTER REMOVAL | FOOT | 125 |
| 15 | COMBINATION CURB AND GUTTER | FOOT | 125 |
| 16 | P.C.C. SIDEWALK, REMOVAL AND REPLACEMENT, 4", COMPLETE | SQ FT | 200 |
| 17 | DETECTABLE WARNINGS | SQ FT | 8 |
| 18 | WATER MAIN, DUCTILE IRON, CLASS 52, RESTRAINED JOINT, 12" | FOOT | 390 |
| 19 | POLYETHYLENE ENCASEMENT | FOOT | 435 |
| 20 | WATER VALVES WITH VALVE BOX, 4" | EACH | 1 |
| 21 | WATER VALVES WITH VALVE BOX, 6" | EACH | 2 |
| 22 | WATER VALVES WITH VALVE BOX, 12" | EACH | 2 |
| 23 | FIRE HYDRANTS W/ AUXILIARY VALVE AND VALVE BOX | EACH | 1 |
| 24 | FIELD LOK GASKETS FOR DUCTILE IRON WATER MAIN | EACH | 10 |
| 25 | CUT IN CONNECTION | EACH | 2 |
| 26 | WATER SERVICE LINE 4" | FOOT | 15 |
| 27 | WATER SERVICE LINE 6" | FOOT | 30 |
| 28 | CUT AND INSTALL END CAPS, 6" | EACH | 5 |
| 29 | CUT AND INSTALL END CAPS, 12" | EACH | 5 |
| 30 | ADJUST WATER MAIN, 6" | FOOT | 10 |
| 31 | ADJUST WATER MAIN, 12" | FOOT | 20 |
| 32 | SANITARY MANHOLE | EACH | 1 |
| 33 | SANITARY SEWERS, PVC, SDR-26, 8" | FOOT | 418 |
| 34 | CONNECT TO EXISTING SANITARY MANHOLE | EACH | 2 |
| 35 | SANITARY SERVICE LINE, 6" | FOOT | 137 |
| 36 | SANITARY SEWER REMOVAL, 8" | FOOT | 418 |
| 37 | CUT AND CAP SANITARY PIPE | EACH | 10 |
| 38 | STORM SEWER REMOVAL, 12" | FOOT | 23 |
| 39 | CATCH BASIN, 3' DIA, W/FR AND CL | EACH | 1 |
| 40 | STORM SEWER REMOVAL AND REPLACEMENT WITH WATER QUALITY PIPE, 6" | FOOT | 10 |
| 41 | STORM SEWER REMOVAL AND REPLACEMENT WITH WATER QUALITY PIPE, 8" | FOOT | 10 |
| 42 | STORM SEWER REMOVAL AND REPLACEMENT WITH WATER QUALITY PIPE, 10" | FOOT | 8 |
| 43 | STORM SEWER REMOVAL AND REPLACEMENT WITH WATER QUALITY PIPE, 12" | FOOT | 43 |
| 44 | STORM SEWER REMOVAL AND REPLACEMENT WITH WATER QUALITY PIPE, 15" | FOOT | 42 |
| 45 | STORM SEWER REMOVAL AND REPLACEMENT WITH WATER QUALITY PIPE, 27" | FOOT | 30 |
| 46 | INLETS TO BE RECONSTRUCTED | EACH | 1 |
| 47 | CONNECT TO EXISTING MANHOLE | EACH | 1 |
| 48 | TRENCH BACKFILL | CU YD | 740 |
| 49 | CLASS D PATCHING, TY I, 9" | SQ YD | 10 |
| 50 | CLASS D PATCHING, TY II, 9" | SQ YD | 32 |
| 51 | CLASS D PATCHING, TY III, 9" | SQ YD | 30 |
| 52 | CLASS D PATCHING, TY IV, 9" | SQ YD | 180 |
| 53 | HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 3" | TON | 90 |
| 54 | FIRE HYDRANTS TO BE REMOVED | EACH | 1 |
| 55 | VALVE BOX TO BE REMOVED | EACH | 5 |
| 56 | WATER VALVE AND BOX TO BE REMOVED, 6" | EACH | 1 |
| 57 | WATER VALVE AND BOX TO BE REMOVED, 12" | EACH | 1 |
| 58 | PCC DRIVEWAY REMOVAL AND REPLACEMENT | SQ YD | 16 |
| 59 | SODDING | SQ YD | 100 |
| 60 | SUPPLEMENTAL WATERING | UNIT | 10 |
| 61 | THERMOPLASTIC PAVEMENT MARKING- LINE 24" | FOOT | 106 |
| 62 | SPECIAL/NON-SPECIAL WASTE DISPOSAL | CU YD | 20 |

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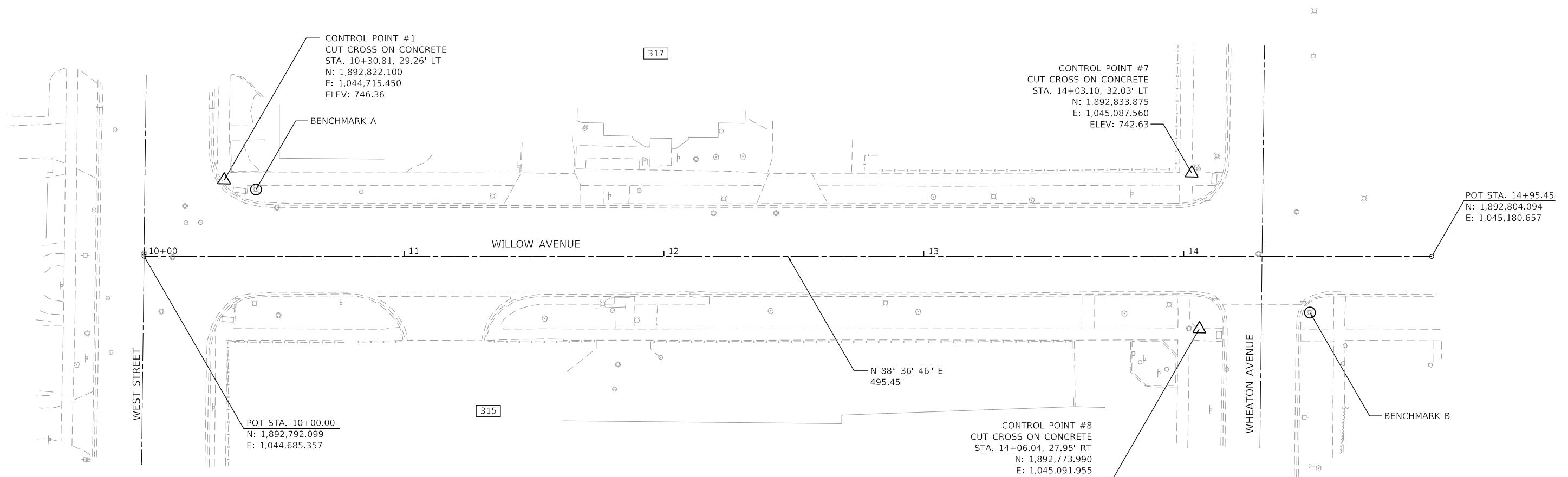
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CITY OF WHEATON
WILLOW AVENUE UTILITY IMPROVEMENT

SUMMARY OF QUANTITIES

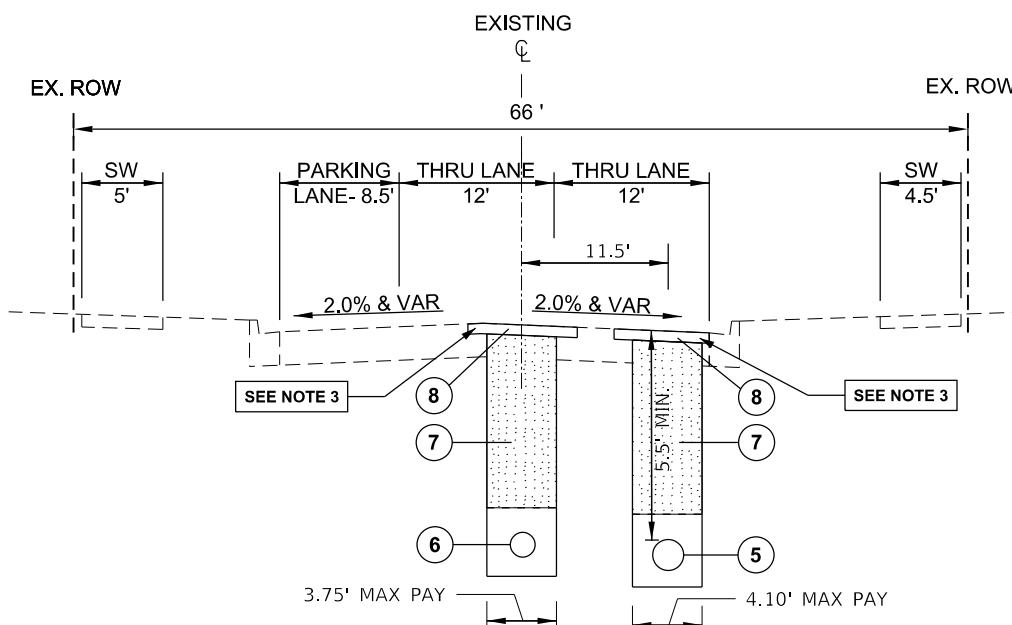
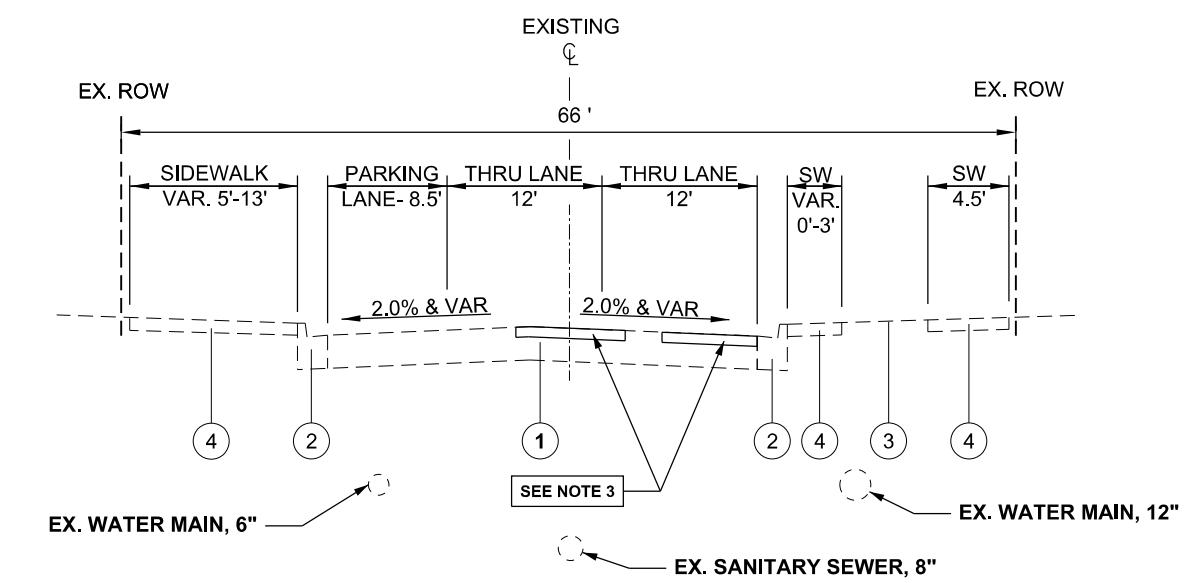
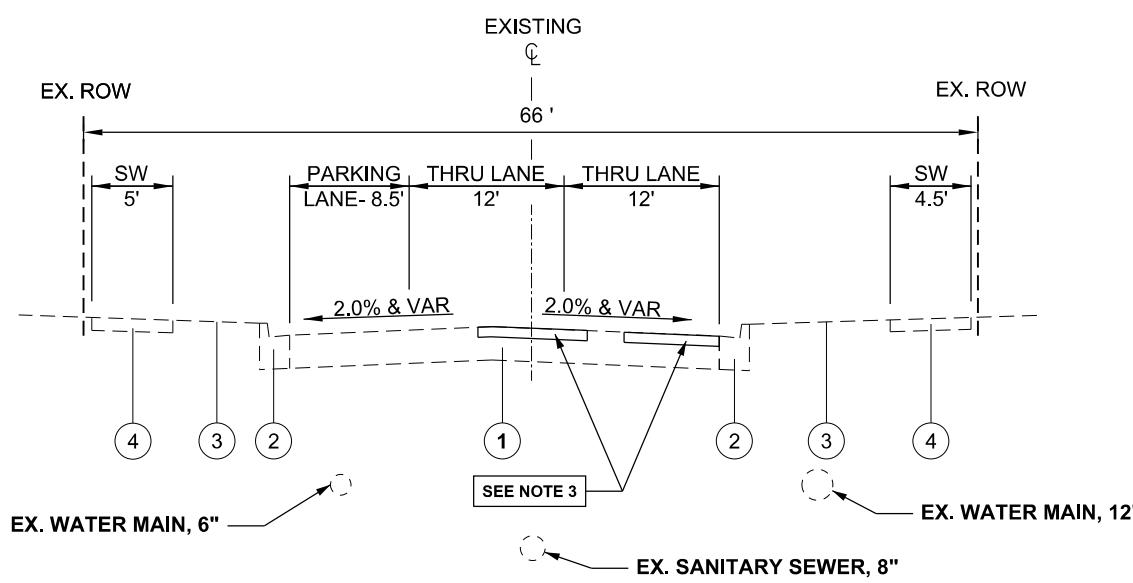
DRAWING NO.
3 OF **21**



BENCHMARKS

- CUT SQUARE ON SOUTH EDGE TOP OF CONCRETE LIGHT POLE FOUNDATION AT NORTHEAST CORNER OF WILLOW AVENUE AND WEST STREET.
ELEV: 746.72
- CUT SQUARE ON NORTHWEST TOP OF CONCRETE LIGHT POLE FOUNDATION AT SOUTHEAST CORNER OF WILLOW AVENUE AND WHEATON AVENUE.
ELEV: 743.50
- DUPAGE COUNTY MONUMENT AT NORTHEAST CORNER OF LIBERTY DRIVE AND CARLTON AVENUE ON RETAINING WALL FOR PARKING GARAGE (BM 0109).
ELEV: 753.20



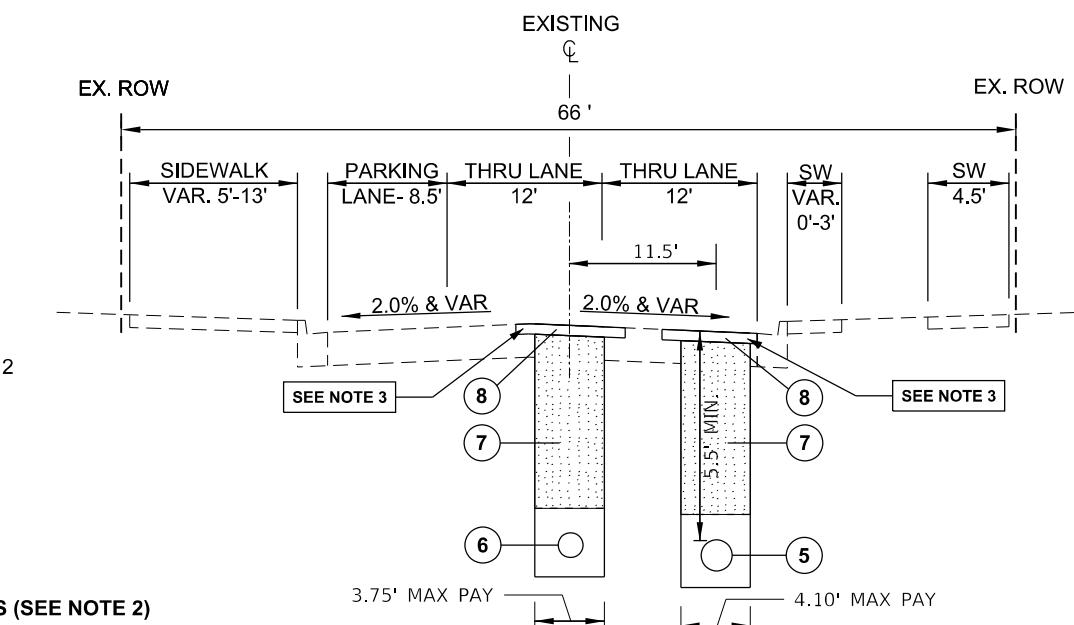


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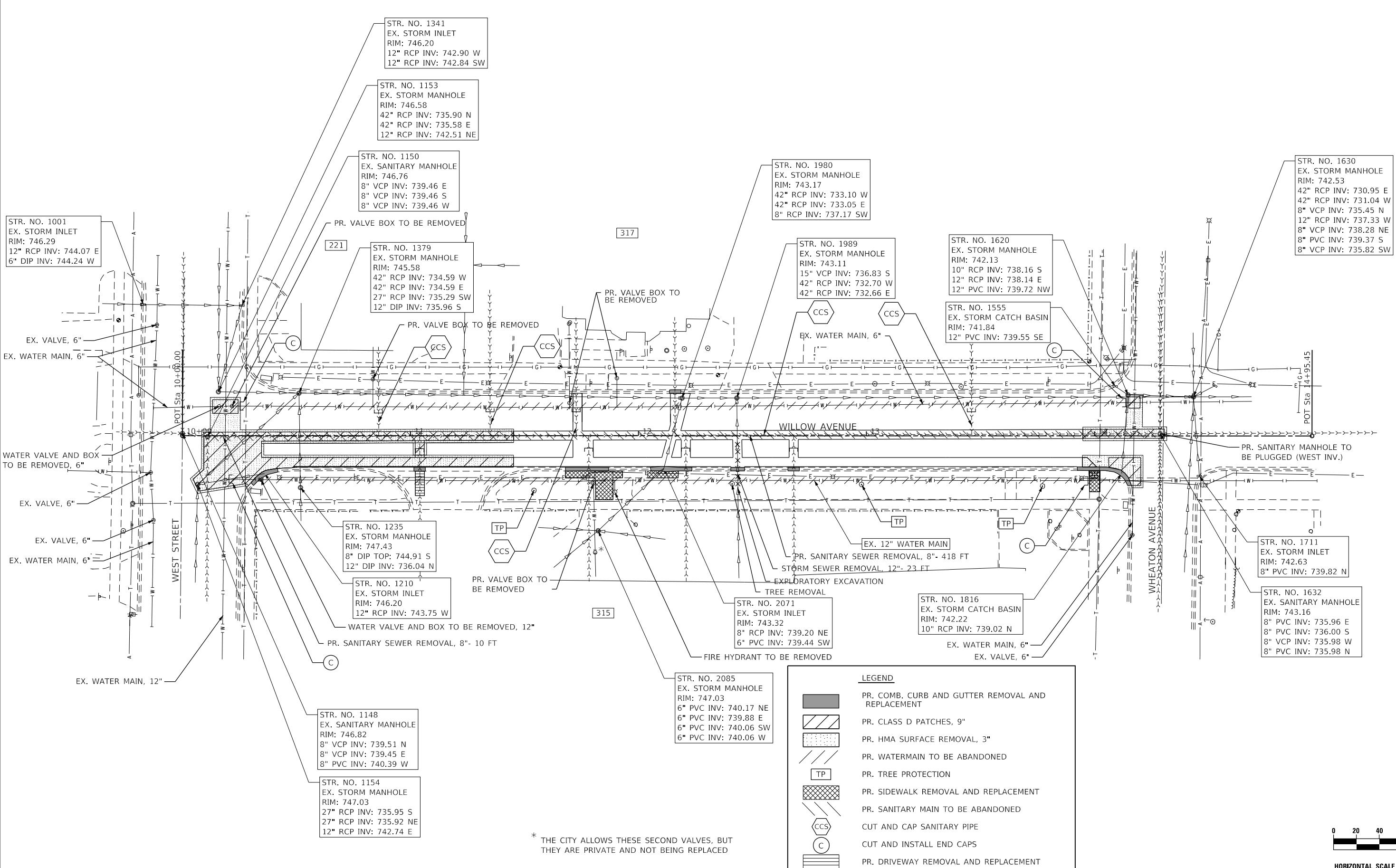
- 1 EX HMA PAVEMENT
- 2 EX COMB. CURB AND GUTTER, TY-6.12
- 3 EX PARKWAY
- 4 EX SIDEWALK
- 5 PR. WATERMAIN, 12" (SEE NOTE 1)
- 6 PR. SANITARY SEWER (SEE NOTE 1)
- 7 PR. TRENCH BACKFILL (SEE NOTE 1)
- 8 PR. AGGREGATE FOR TEMP. ACCESS (SEE NOTE 2)

NOTE:

1. THE CONTRACTOR SHALL NOTIFY AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF OPERATIONS AFFECTING DRIVEWAY INGRESS AND EGRESS.
2. AT ROADS UNDER TRAFFIC, DRIVEWAYS AND SIDEWALKS
3. WHERE CLASS D PATCHES ARE SHOWN, HMA SURFACE REMOVAL, 3" AND HMA SURFACE COURSE, 3" SHALL EXTEND ONE FOOT (1') BEYOND EDGE OF CLASS D PATCHES.



| DRAWN BY | DJN | DATE | 12/29/25 | FILE NAME: 25-045 Wheaton Willow Avenue Utility Improvements (City Project # 25-129) USGS CADD101.MDW/03.SHT05 Willow Ave Typical Sections 01.dwg | CITY OF WHEATON PUBLIC WORKS 821 WEST LIBERTY DRIVE WHEATON, ILLINOIS 60187 PHONE 630.260.2110 WWW.WHEATONIL.US | thomas engineering group service of the highest grade | thomas engineering group, llc 2625 butterfield road suite 209w oak brook, il 60523 phone: 855-533-1700 | CITY OF WHEATON WILLOW AVENUE UTILITY IMPROVEMENT | TYPICAL SECTIONS WILLOW AVENUE | DRAWING NO. |
|------------|-----|-------|----------|---|--|---|--|--|-----------------------------------|-------------|
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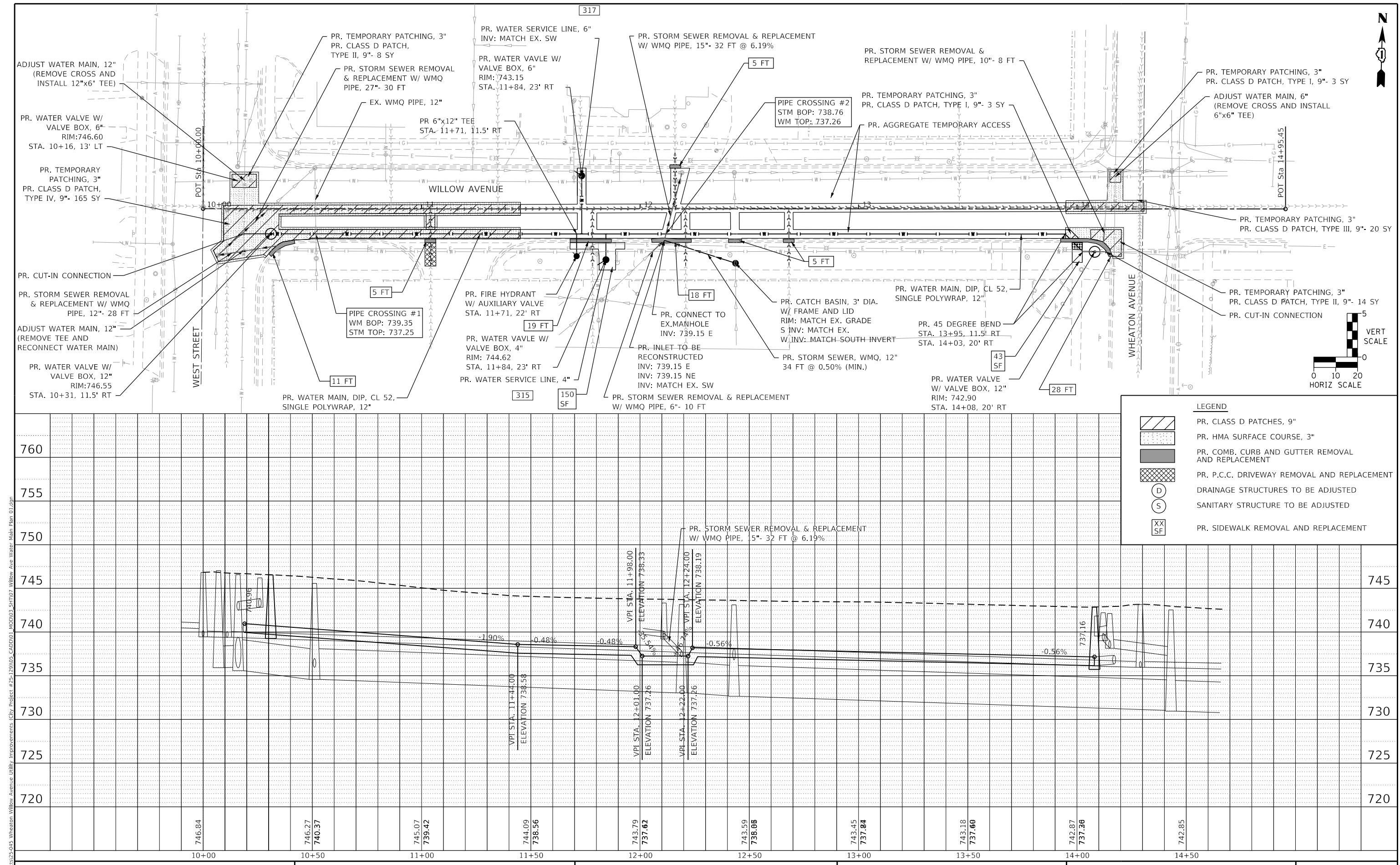
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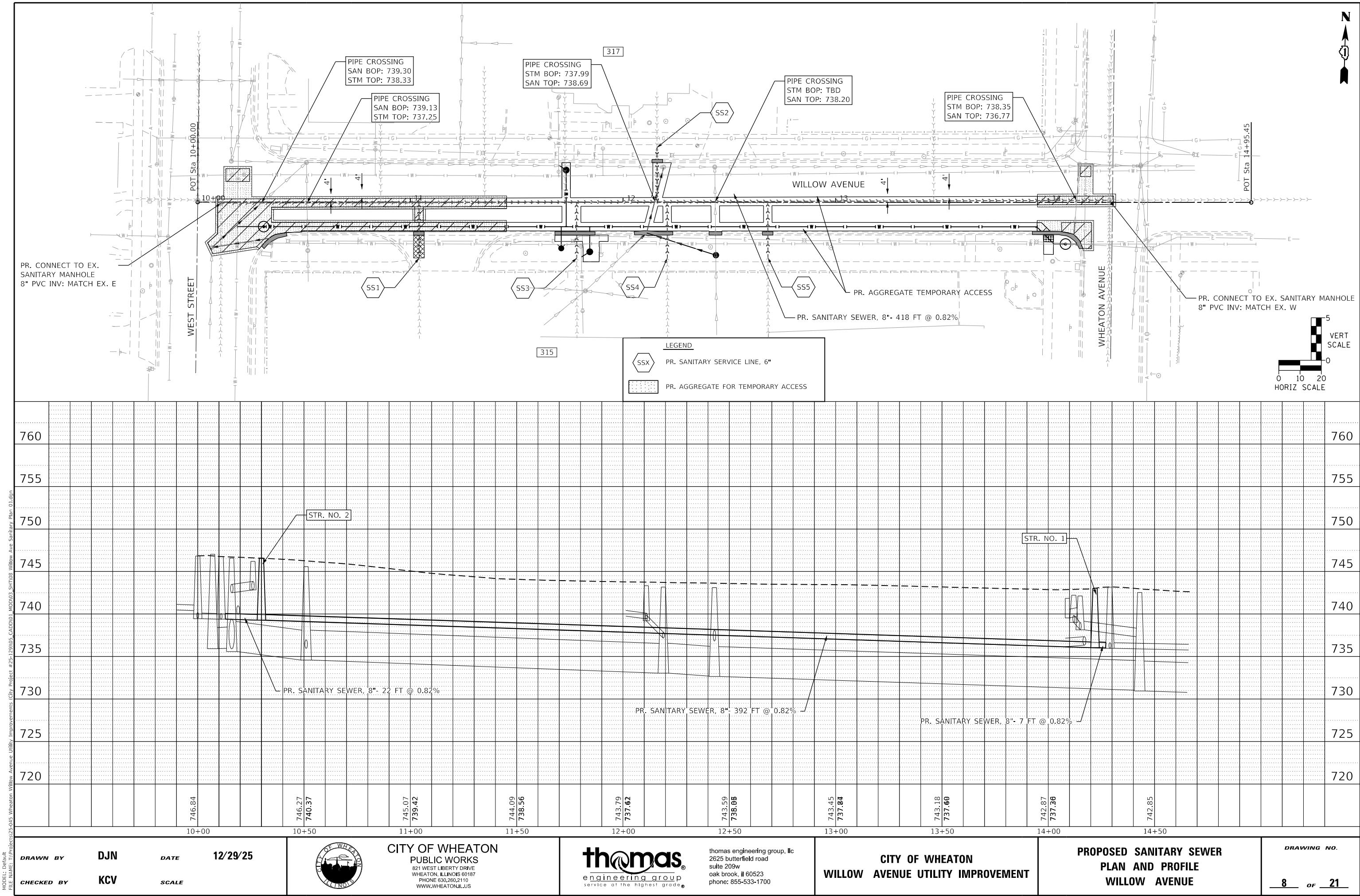
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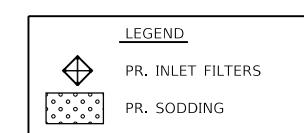
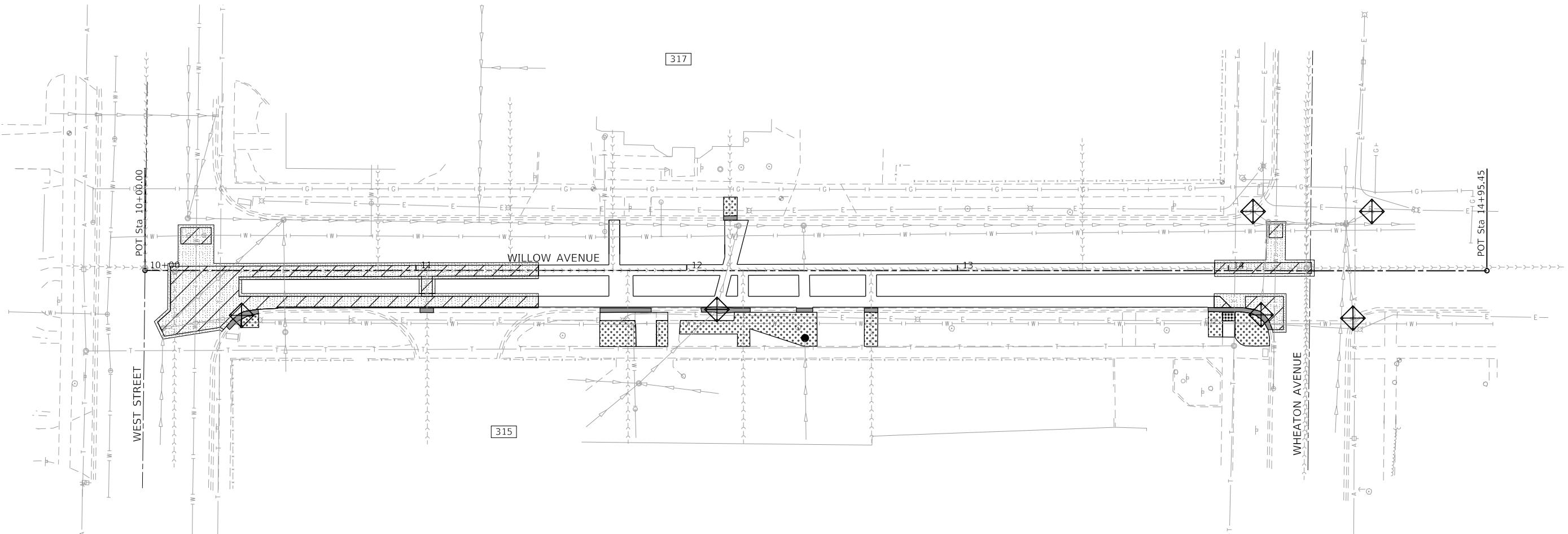
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WILLOW AVENUE UTILITY IMPROVEMENT

EXISTING CONDITIONS AND
REMOVALS PLAN
WILLOW AVENUE

DRAWING NO.
6 OF 21



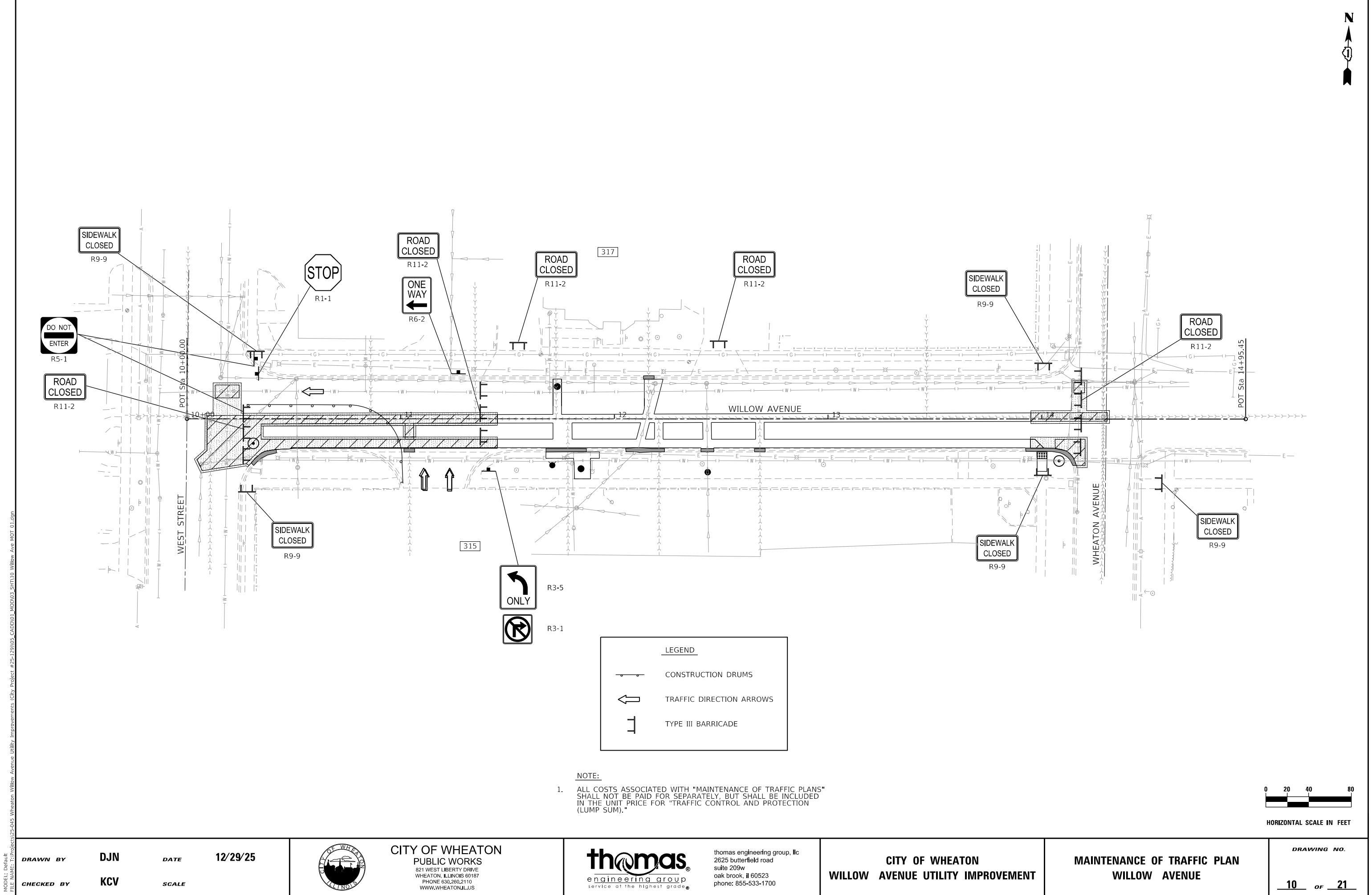


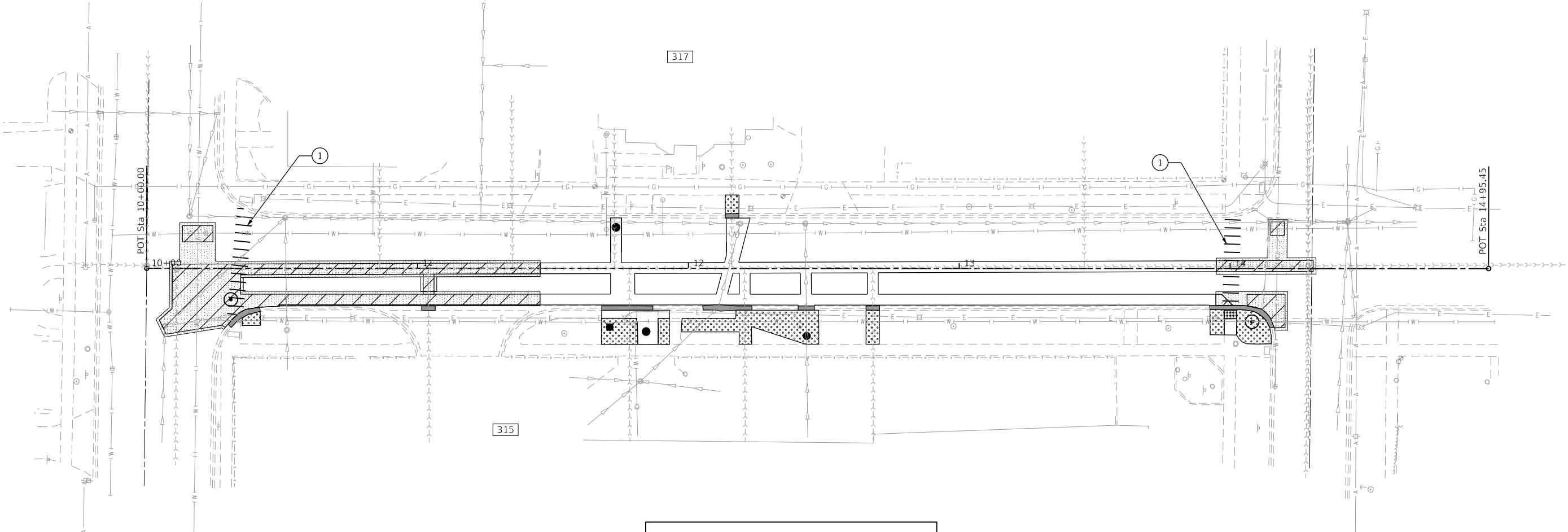


0 20 40 80

HORIZONTAL SCALE IN FEET

| | | | | | | | | | |
|------------|-----|-------|----------|--|--|---|--|---|-------------|
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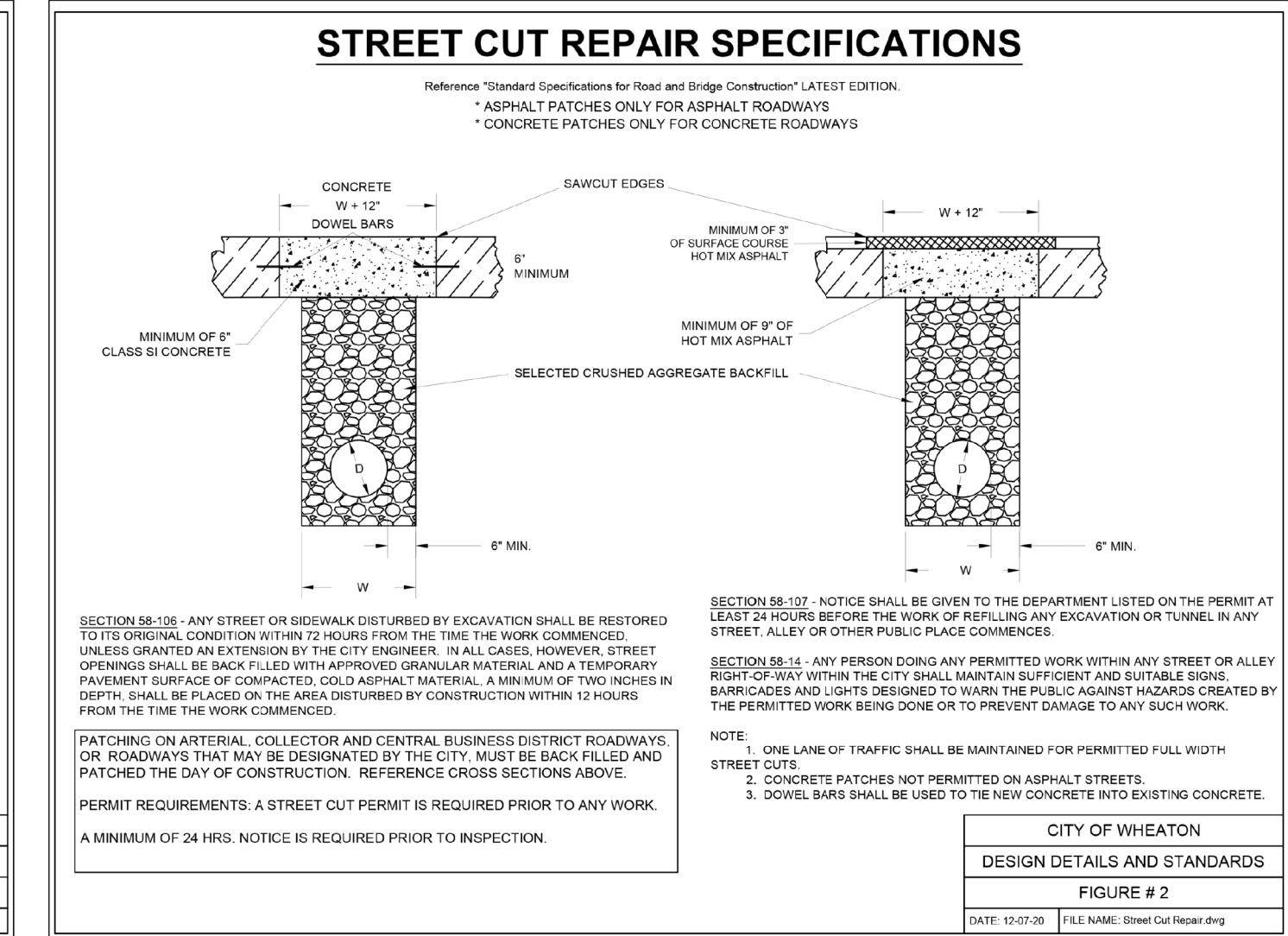
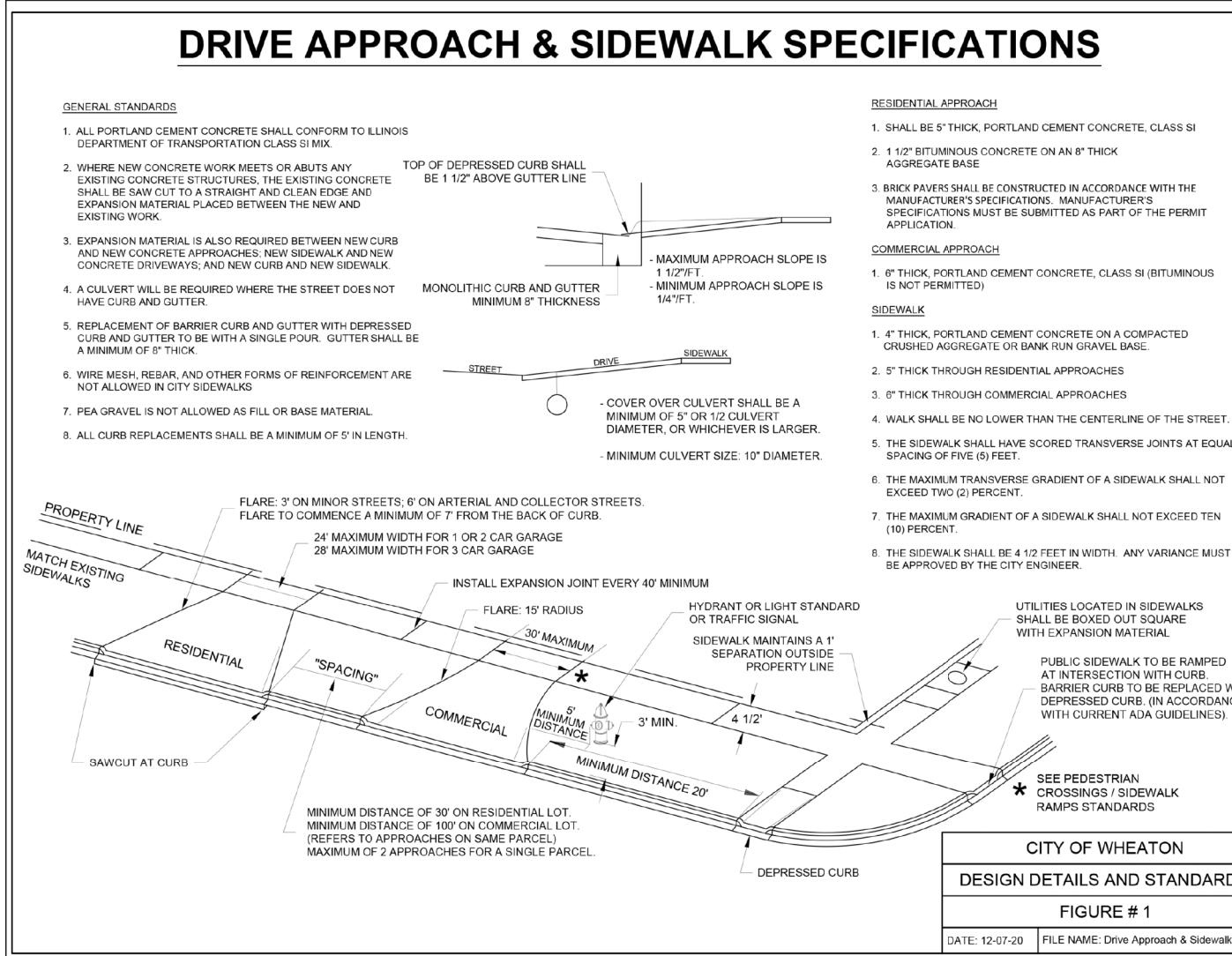




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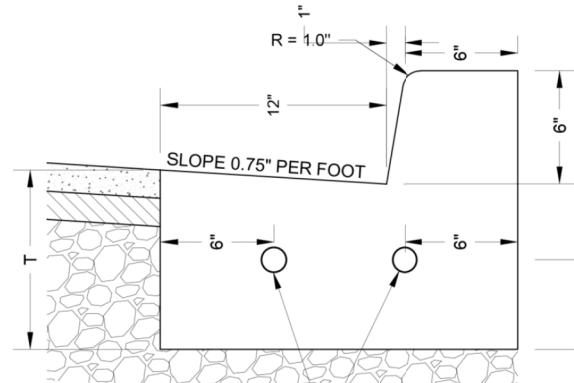
HORIZONTAL SCALE IN FEET

| DRAWN BY | DJN | DATE | 12/29/25 | FILE NAME: 25-045 Wheaton Willow Avenue Utility Improvements (City Project # 25-129) US-CADD01.MDW03.SHT01 Willow Ave PM 01.dgn | CITY OF WHEATON | thomas | CITY OF WHEATON | PAVEMENT MARKING PLAN | DRAWING NO. |
|------------|-----|-------|----------|---|-----------------|-------------------|-----------------------------------|-----------------------|-------------|
| CHECKED BY | KCV | SCALE | | | PUBLIC WORKS | engineering group | WILLOW AVENUE UTILITY IMPROVEMENT | WILLOW AVENUE | 11 OF 21 |

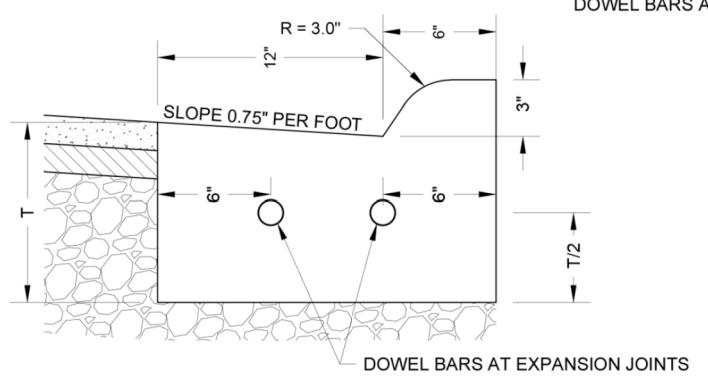


CURB & GUTTER SPECIFICATIONS

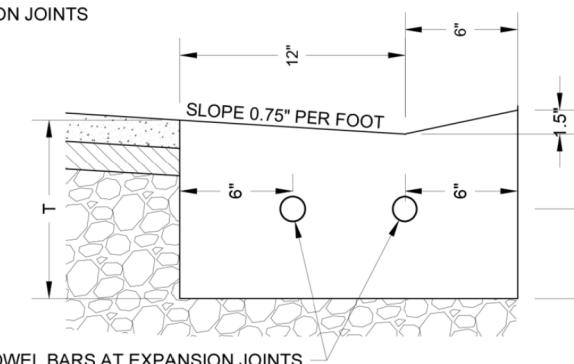
TYPE B 6.12



TYPE M 3.12



DEPRESSED CURB



NOTE:

1. TWO NO.6 STEEL DOWEL BARS WITH CAPS TO BE USED AT ALL EXPANSION JOINTS 100 ft. INTERVALS.
2. CONSTRUCTION JOINTS AT 25 ft. INTERVALS.
3. INSTALL THREE 3/8" REBAR AT ALL TRENCH CROSSINGS. BARS TO EXTEND TWO FEET BEYOND EDGE OF TRENCH AND HAVE A MINIMUM LENGTH OF 10 FT.
4. THE BASE COURSE WILL BE OF A DEPTH SUFFICIENT TO BRING THE CURB AND GUTTER TO THE PROPOSED GRADE.
5. THE BASE COURSE LOCATED UNDER THE CURB AND GUTTER WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE SPECIFIED.

CITY OF WHEATON

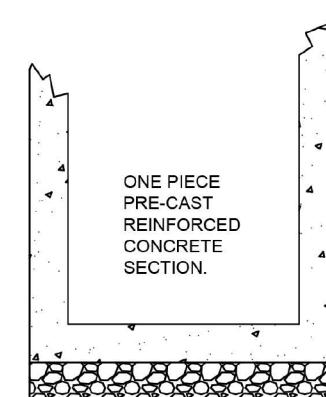
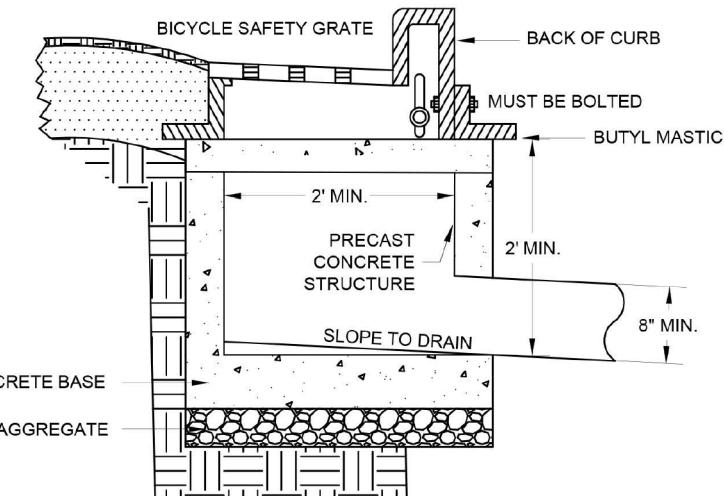
DESIGN DETAILS AND STANDARDS

FIGURE # 4

DATE: 12-07-20 FILE NAME: Curb & Gutter.dwg

CURBLINE INLET OR CATCH BASIN

1. A MAXIMUM ADJUSTMENT OF 8" USING 2 (TWO) RISER RINGS. NO METAL RISER RINGS OR BRICKS ALLOWED.
 - A. CONCRETE ADJUSTING RINGS SHALL HAVE A MINIMUM THICKNESS OF 2"
 - B. RUBBER ADJUSTING RINGS SHALL TOTAL NO MORE THAN 3"
2. FRAME AND GRATE SHALL BE NEENAH R-3010
3. ALL JOINTS BETWEEN BARREL SECTION, RISER, AND CASTING SHALL BE SEALED WITH FLEXIBLE BUTYL MASTIC MATERIAL 2-1/4" WIDE AND 3/8" THICK OR ENGINEER APPROVED SUBSTITUTE. MORTAR IS NOT ALLOWED.
4. THE GRATE SHALL BE A BICYCLE SAFETY GRATE.
5. REFERENCE: STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, CURRENT EDITION
6. IN ALL INSTANCES WHERE 2 OR MORE PIPES ENTER OR EXIT AN INLET OR CATCH BASIN, 4' INSIDE DIAMETER STRUCTURE MUST BE USED. ANY SUBSTITUTIONS MUST BE APPROVED BY THE CITY ENGINEER.



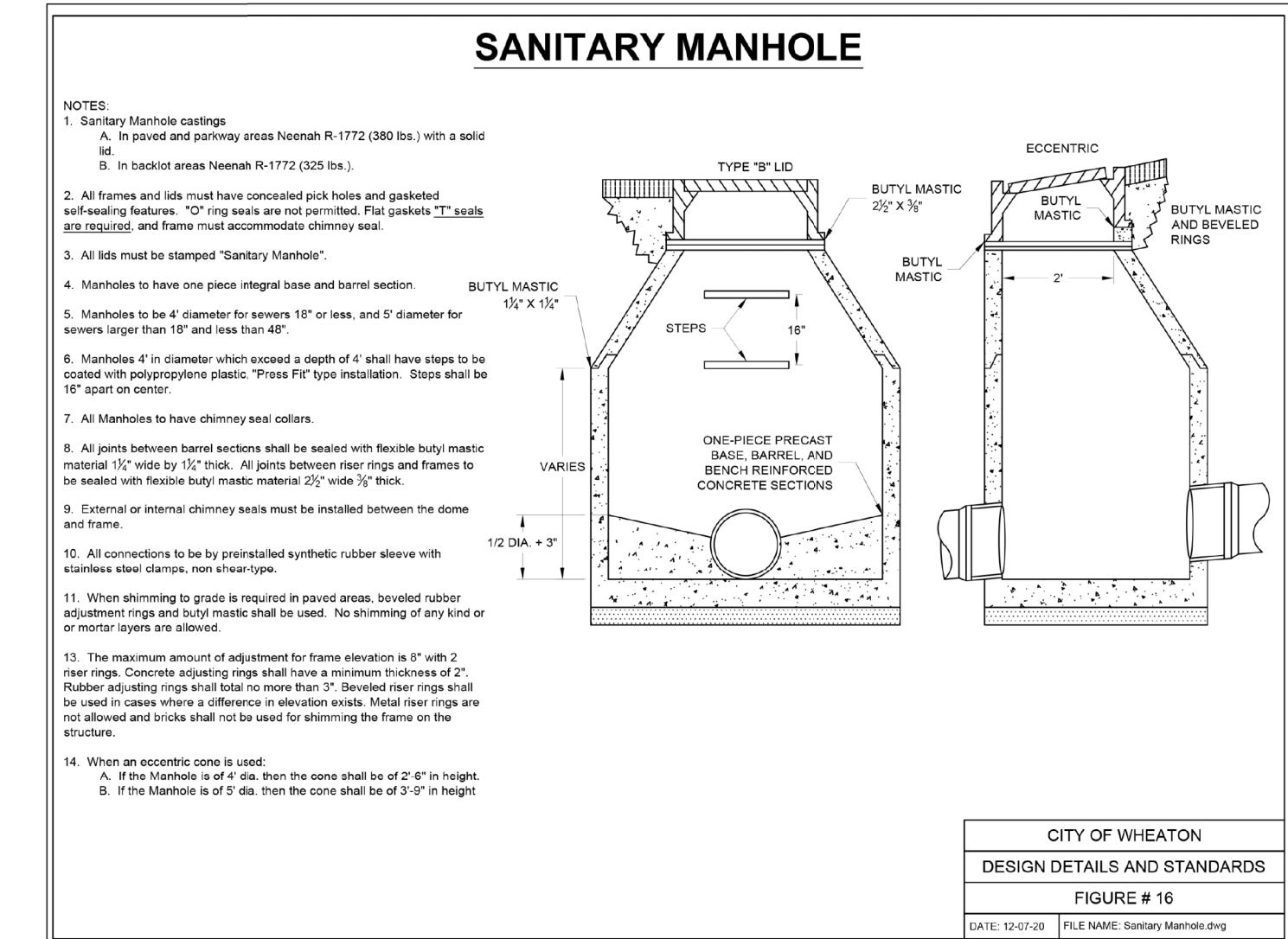
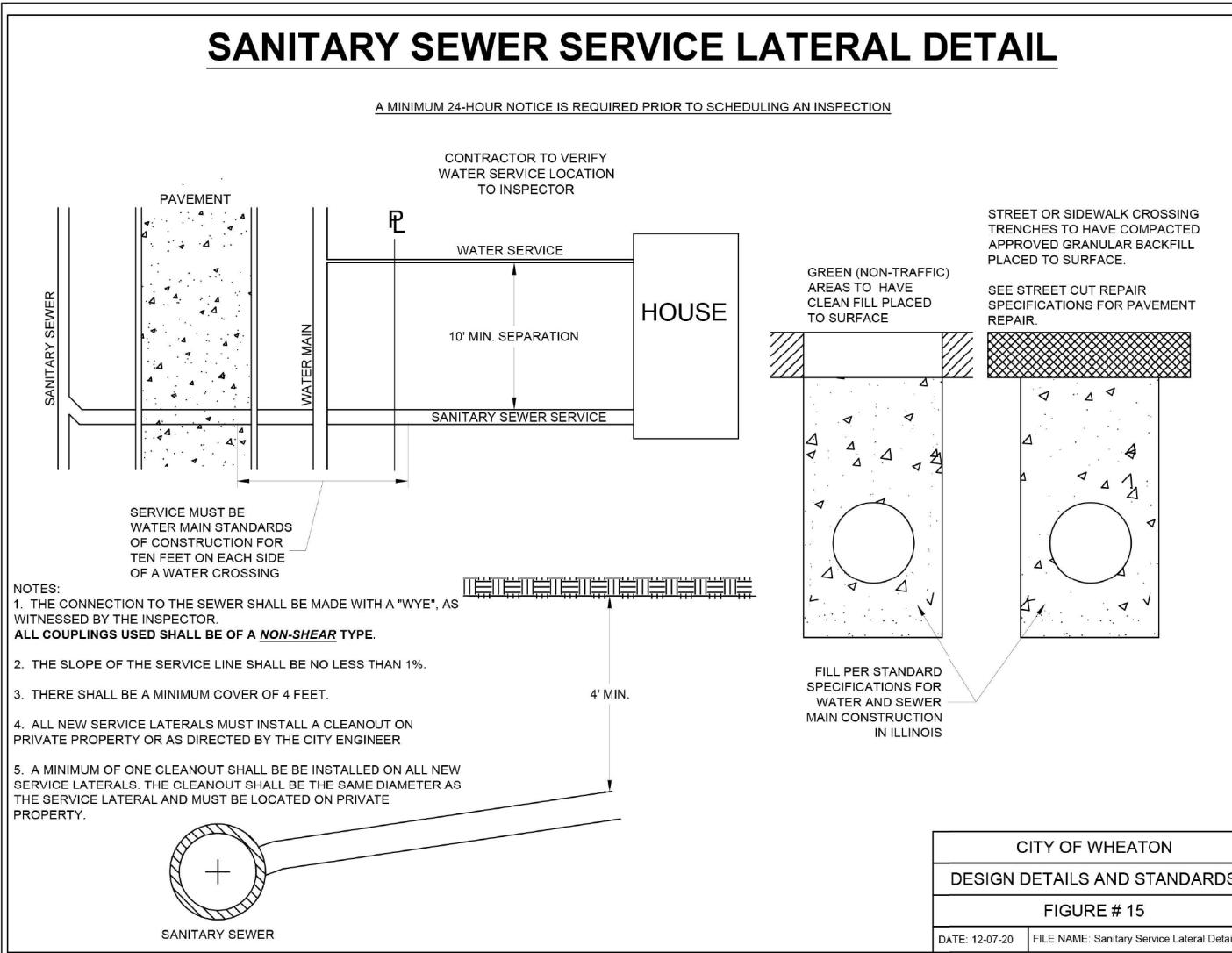
CITY OF WHEATON

DESIGN DETAILS AND STANDARDS

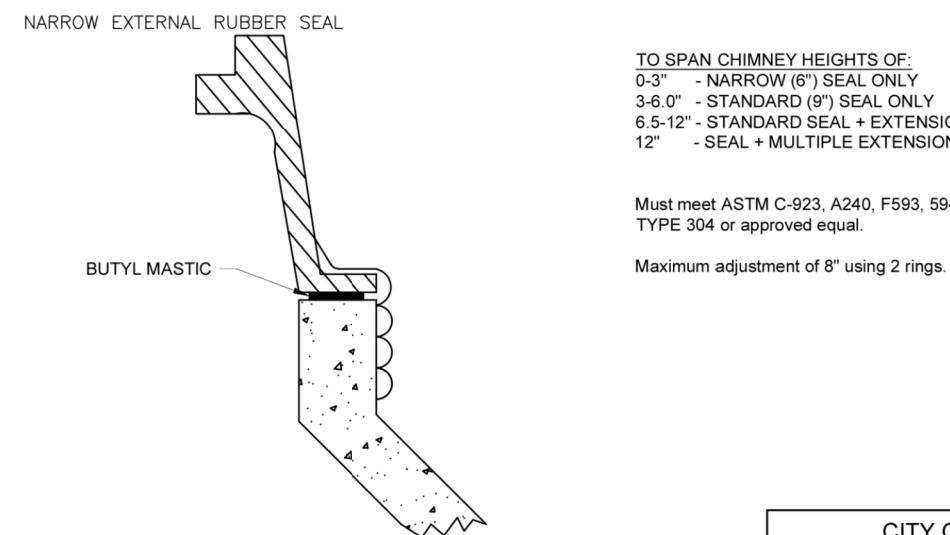
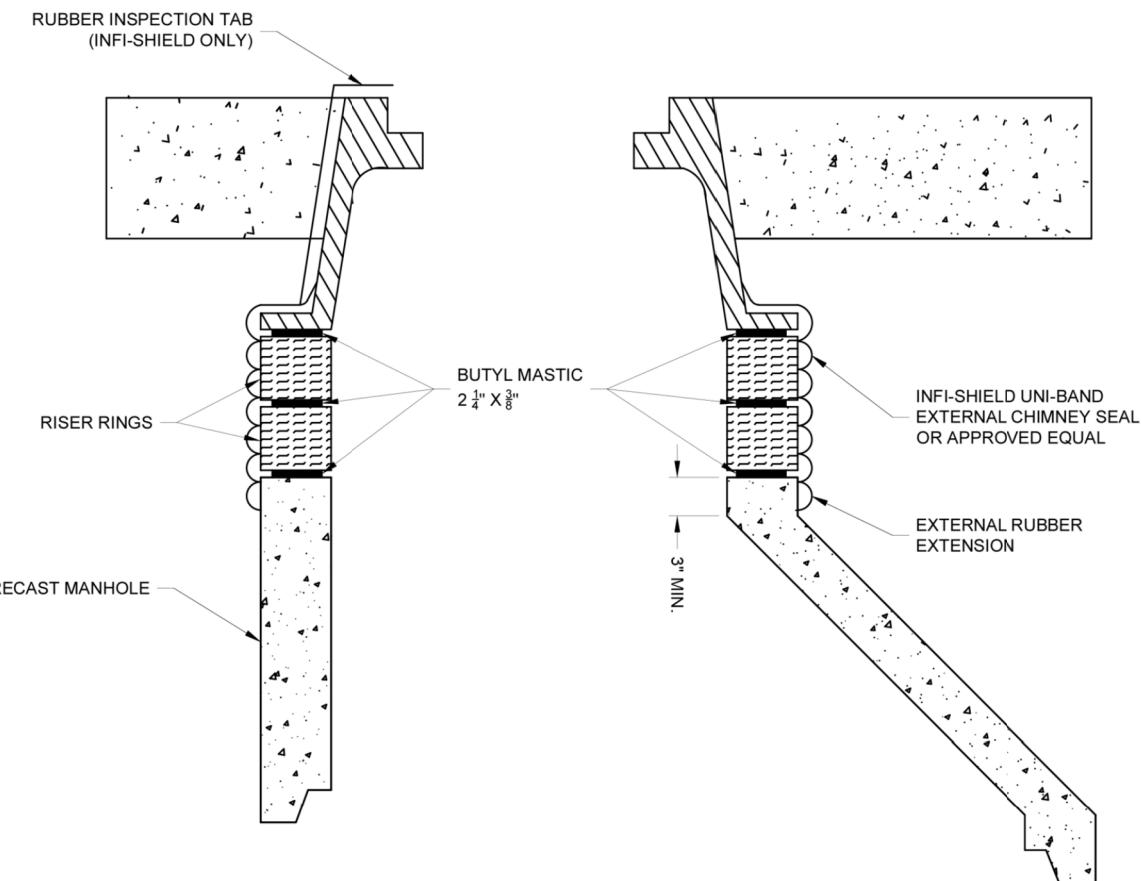
FIGURE # 5

DATE: 12-07-20 FILE NAME: Curbline Inlet or Catch Basin.dwg



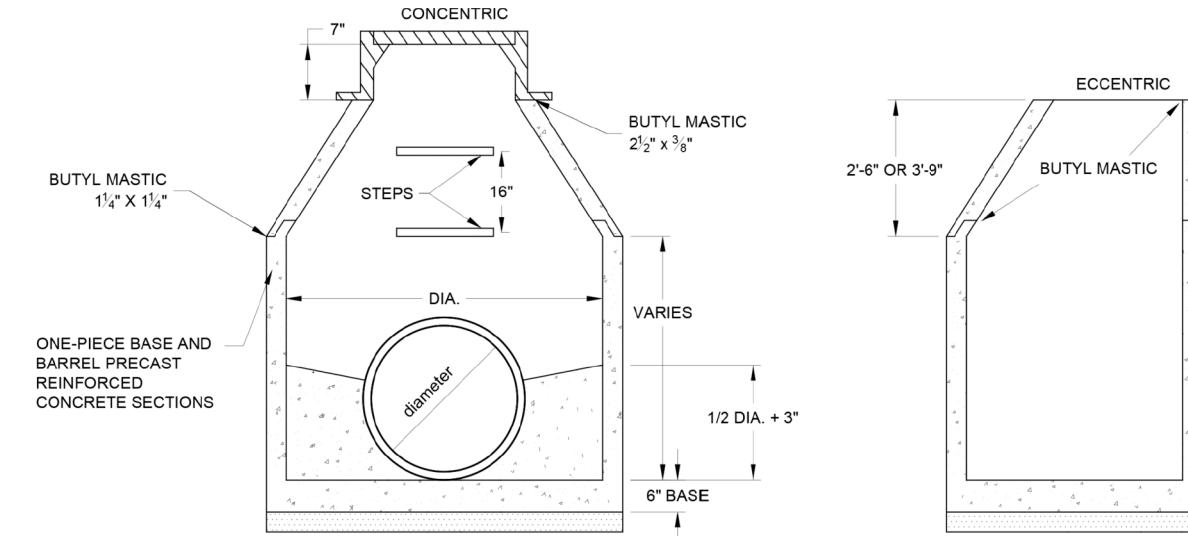


SANITARY MANHOLE EXTERNAL CHIMNEY SEAL



CITY OF WHEATON
DESIGN DETAILS AND STANDARDS
FIGURE # 17
DATE: 12-07-20 FILE NAME: Sanitary Manhole External Chimney Seal.dwg

TYPE "A" STORM SEWER MANHOLE

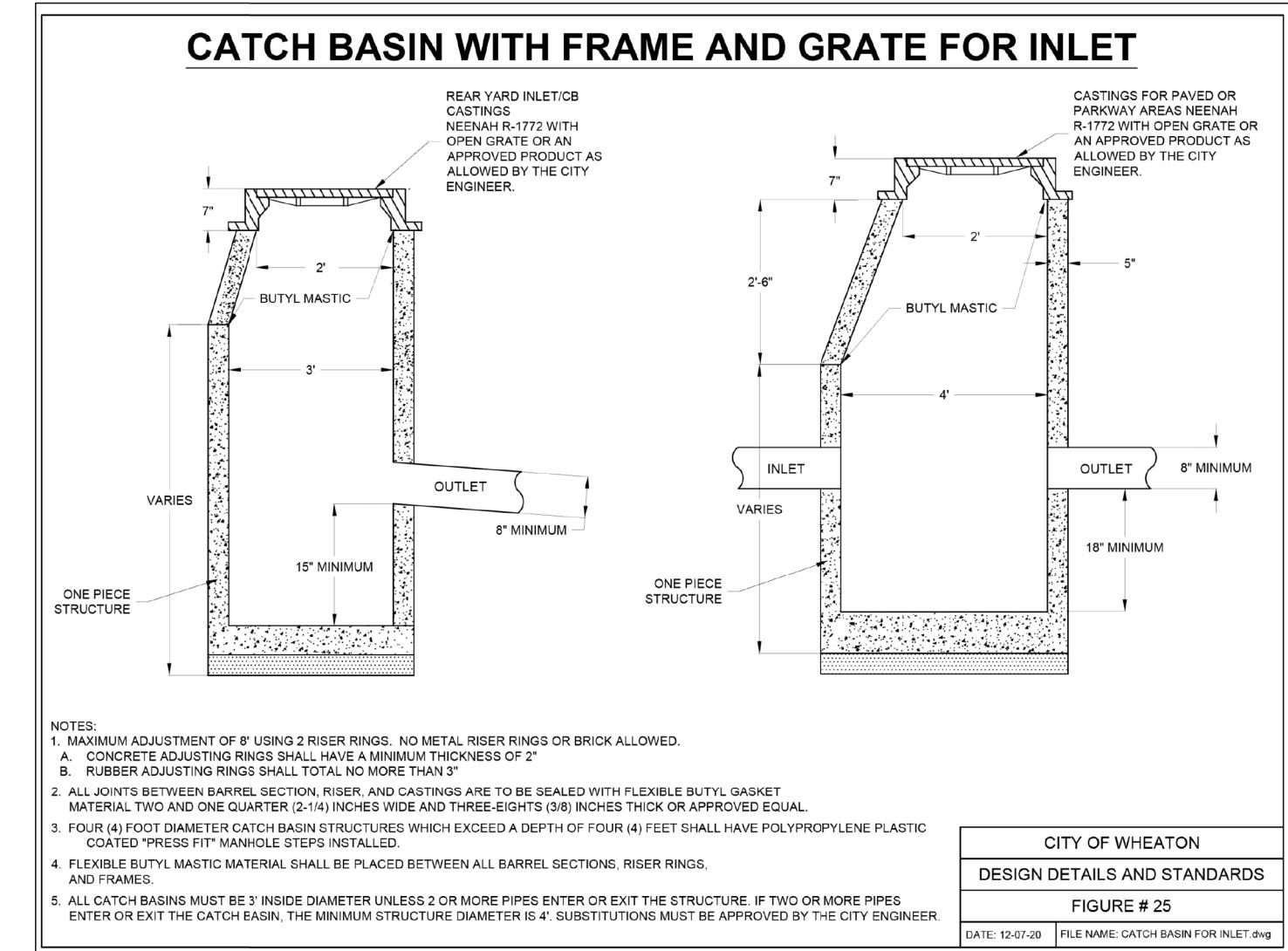
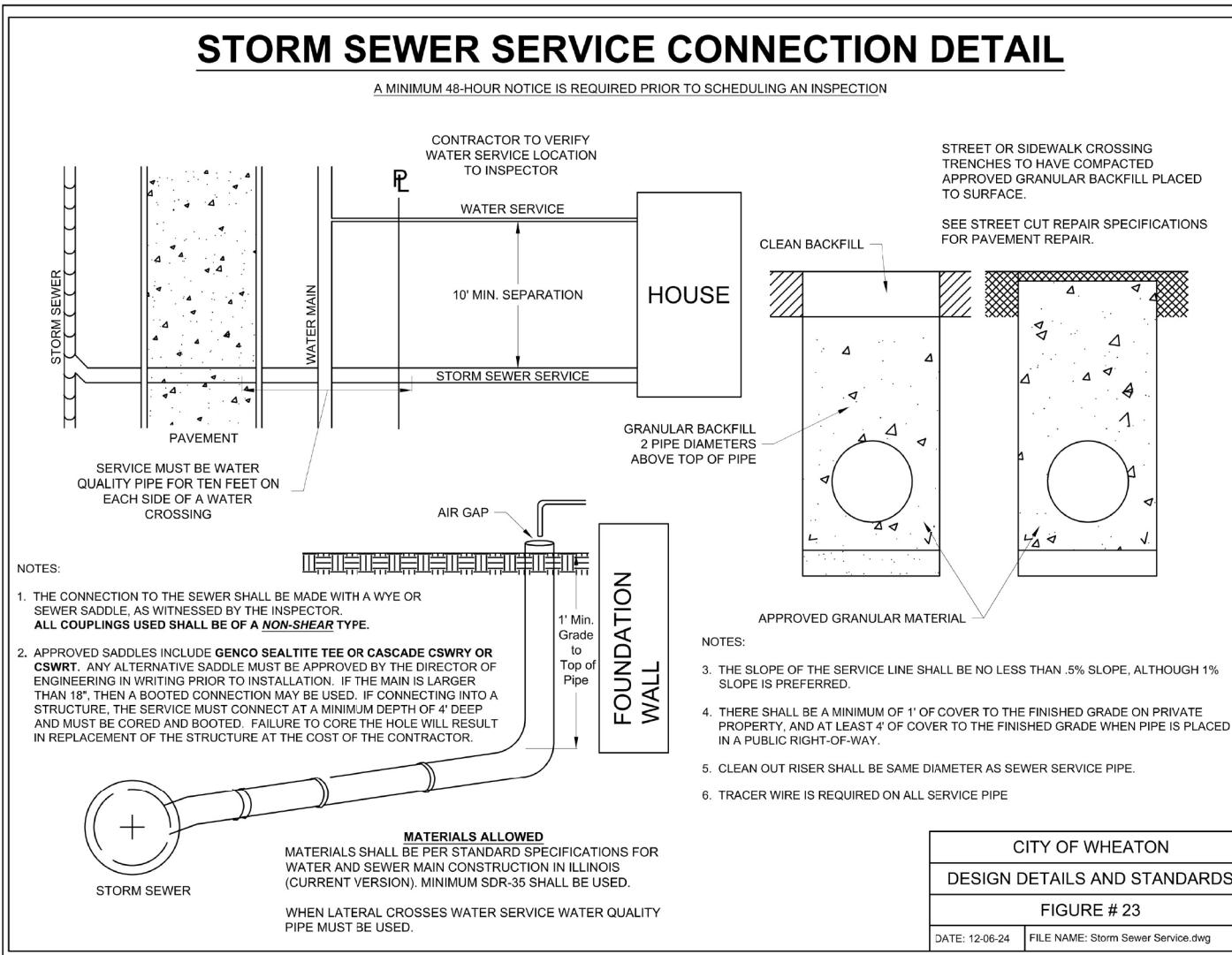


NOTES:

1. Manhole castings
 - A. In paved and parkway areas Neenah R-1772 (380 lbs.) or an approved equal product with a solid lid as allowed by the City Engineer. EJIW 1022-3 (370 lbs.) will not be accepted.
 - B. In back lot areas Neenah R-1772 or an approved equal product with a solid lid as allowed by the City Engineer.
2. Manholes to have ONE piece integral base and barrel section.
3. Manholes to be a minimum 4' diameter for sewers 18" diameter or less, and 5' diameter for sewers larger than 18" diameter and less than 48" diameter.
4. Manholes 4' in diameter which exceed a depth of 4' shall have steps to be coated with polypropylene plastic, "Press Fit" type installation. Steps shall be 16" apart on center.
5. All Manholes to have chimney seal collars.
6. All joints between barrel sections shall be sealed with flexible butyl mastic material 1 1/4" wide by 1 1/4" thick. All joints between riser rings and frames to be sealed with flexible butyl mastic material 2 1/2" wide and 3/8" thick.
7. When shimming is required in street areas, beveled rubber riser rings shall be used. BRICK SHIMMING OR MORTAR IS NOT ALLOWED.
8. The 4" base shall be made of poured in place Class SI concrete or precast with 4" aggregate cushion.
9. The maximum amount of adjustment for frame elevation is 8" with 2 rings.
 - A. Concrete adjusting rings shall have a minimum thickness of 2"
 - B. Rubber adjusting rings shall total no more than 3"
10. When an eccentric cone is used:
 - A. If the Manhole is of 4' dia. then the cone shall be 2'-6" in height.
 - B. If the Manhole is of 5' dia. then the cone shall be 3'-9" in height.

CITY OF WHEATON
DESIGN DETAILS AND STANDARDS
FIGURE # 21
DATE: 12-07-20 FILE NAME: Type A Storm Sewer.dwg





FIRE HYDRANT AND VALVE DETAIL

1. FIRE HYDRANT SHALL BE INSTALLED WITH THE STEAMER NOZZLE FACING THE STREET.

2. THE FACE OF THE NOZZLE SHALL BE A MINIMUM OF 36" BEHIND THE BACK OF CURB.

3. VALVE SHALL BE SUPPORTED WITH TIGHTLY FIT PRECAST CONCRETE BLOCKS PLACED ON UNDISTURBED EARTH. (WHEATON STANDARDS)

4. FITTINGS AND FLANGES SHALL BE RETAINED WITH "MEGA-LUG" RETAINERS.

5. THE 90 DEGREE BEND UNDER THE FIRE HYDRANT SHALL BE SUPPORTED UNDERNEATH AND THE SIDE OPPOSITE THE MAIN UNDERNEATH AND ON THE SIDE OPPOSITE THE WATER MAIN WITH TIGHTLY FIT PRECAST CONCRETE BLOCKS PLACED ON UNDISTURBED EARTH. (WHEATON STANDARDS)

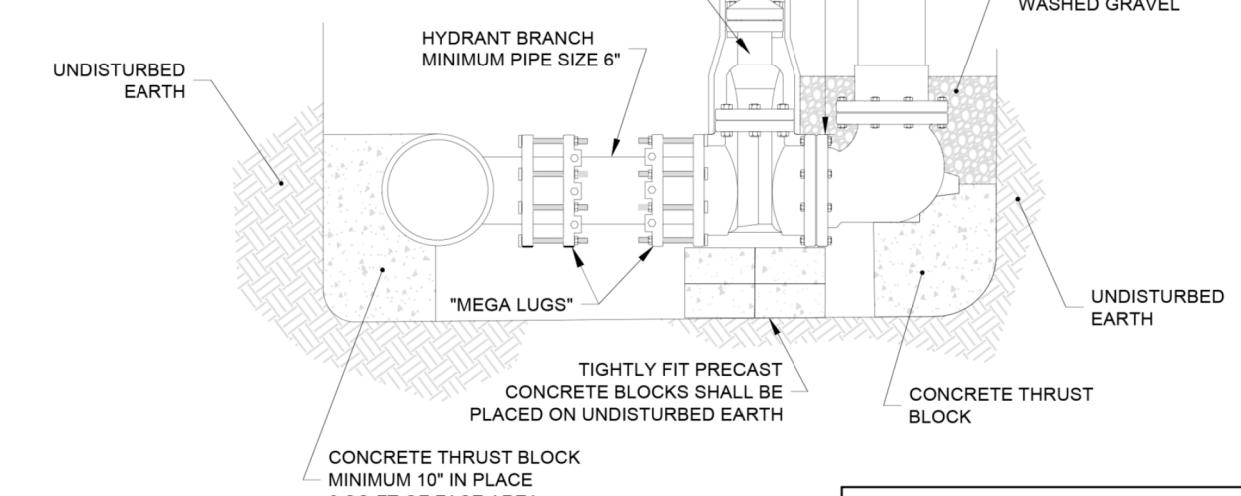
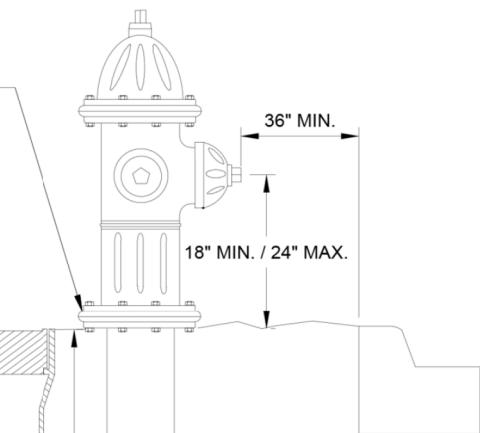
6. THRUST BLOCKING SHALL CONSIST OF CLASS SI CONCRETE CAST AGAINST FITTINGS AND UNDISTURBED EARTH. (REF. STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, LATEST EDITION).

FIRE HYDRANT SHALL HAVE BREAK-AWAY FLANGE OR REMOVABLE BARREL

THE WORD "WATER" MUST BE STAMPED ON THE COVER

CAST IRON VALVE BOX
NO PLASTIC VALVE
BOXES OR SLIP IN SLEEVE SHALL BE PERMITTED

RUBBER VALVE SETTER
GATE VALVE MINIMUM SIZE 6" TURN LEFT TO OPEN



CITY OF WHEATON

DESIGN DETAILS AND STANDARDS

FIGURE # 30

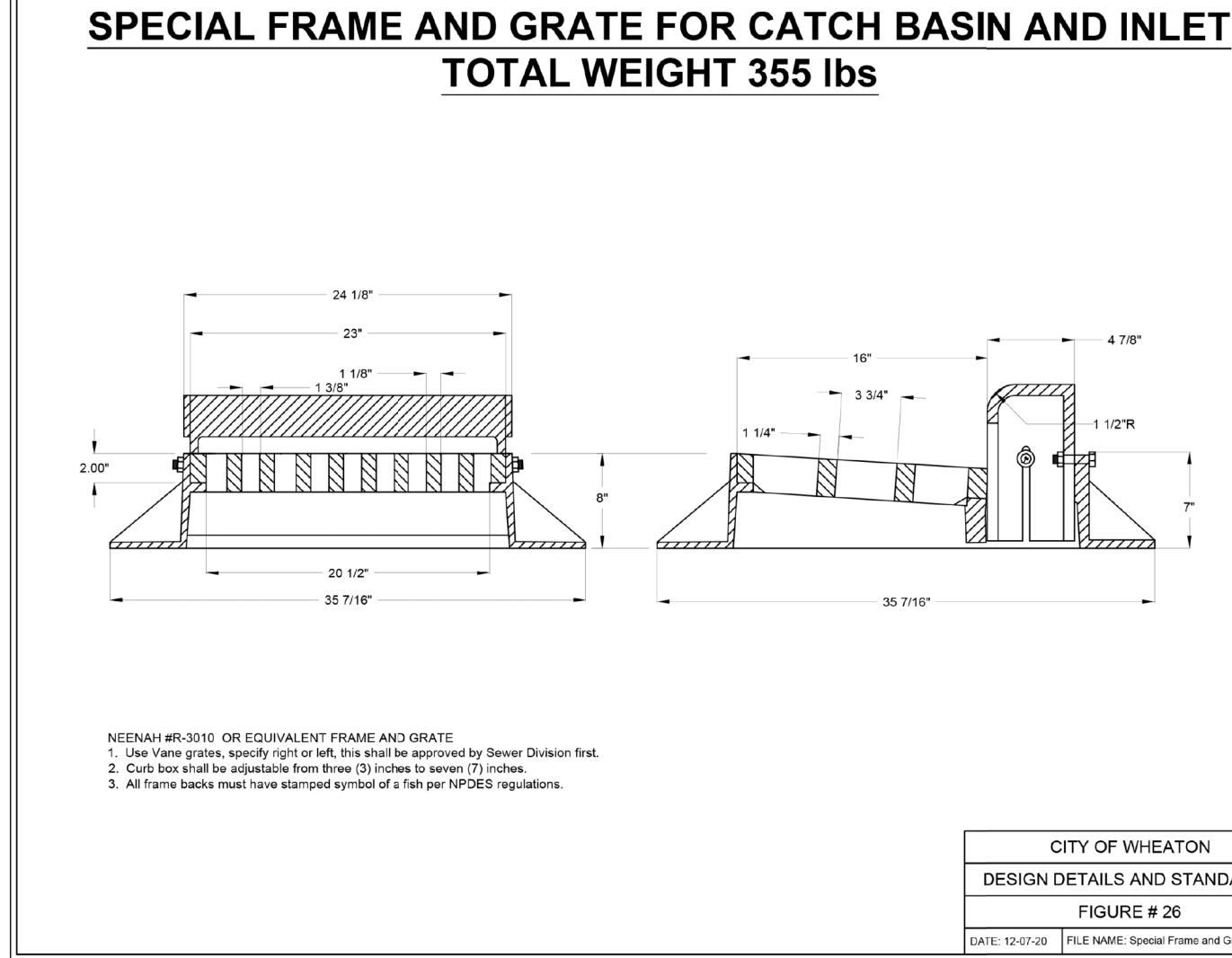
DATE: 12-07-20 FILE NAME: Fire Hydrant and Valve.dwg

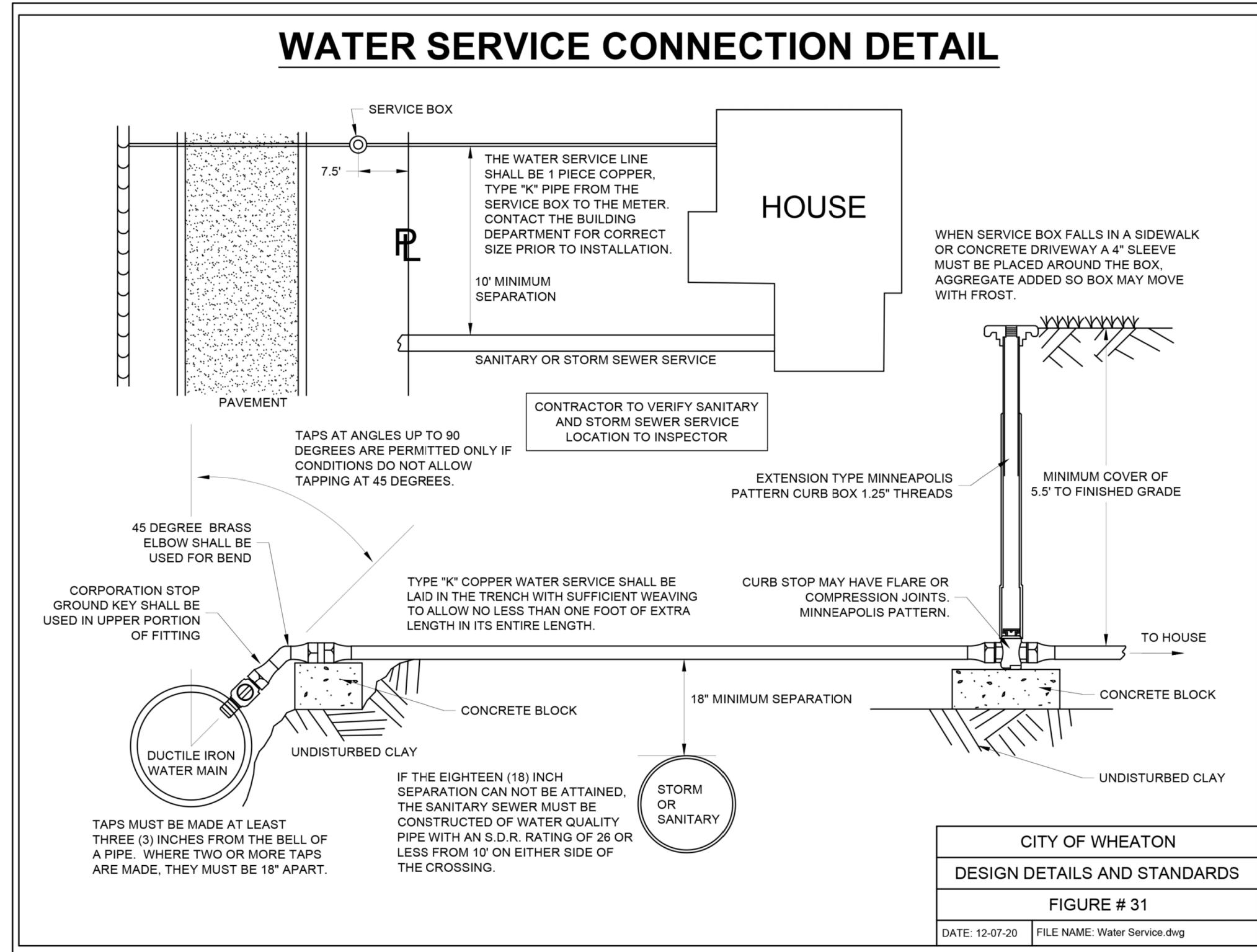
CITY OF WHEATON
WILLOW AVENUE UTILITY IMPROVEMENT

CITY OF WHEATON STANDARDS

DRAWING NO.

17 OF 21





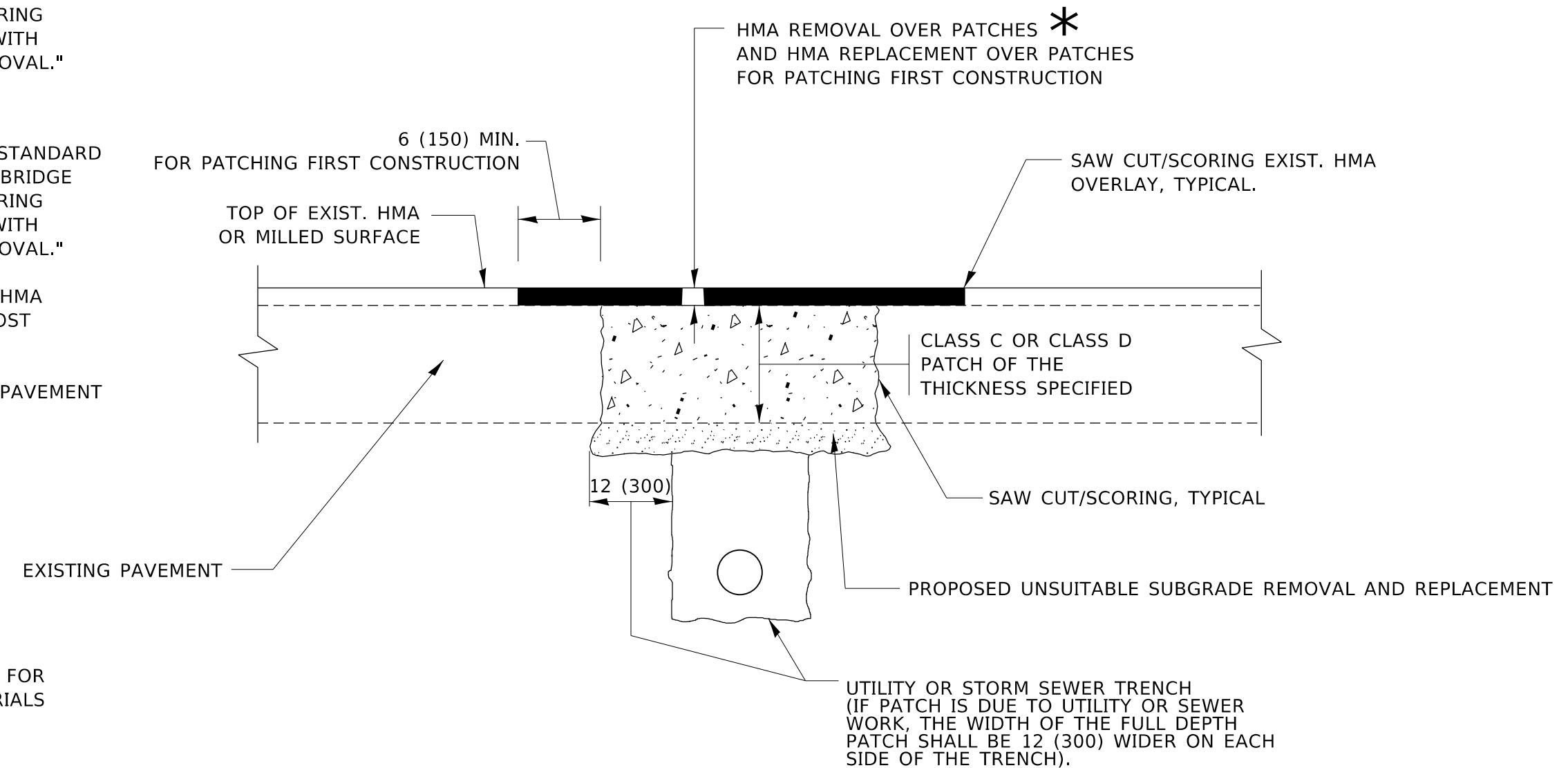
| DRAWN BY | DJN | DATE | 12/29/25 | FILE NAME | 25-045 Wheaton Willow Avenue Utility Improvements (City Project # 25-129) US-CADD01.MDW03.SHTU2-16 City of Wheaton Standards.dgn | DRAWING NO. | |
|------------|-----|-------|----------|-----------|--|-----------------------------------|--|
| CHECKED BY | KCV | SCALE | | thomas | engineering group service of the highest grade | CITY OF WHEATON | |
| | | | | | | WILLOW AVENUE UTILITY IMPROVEMENT | |
| | | | | | <th>CITY OF WHEATON STANDARDS</th> <td></td> | CITY OF WHEATON STANDARDS | |

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



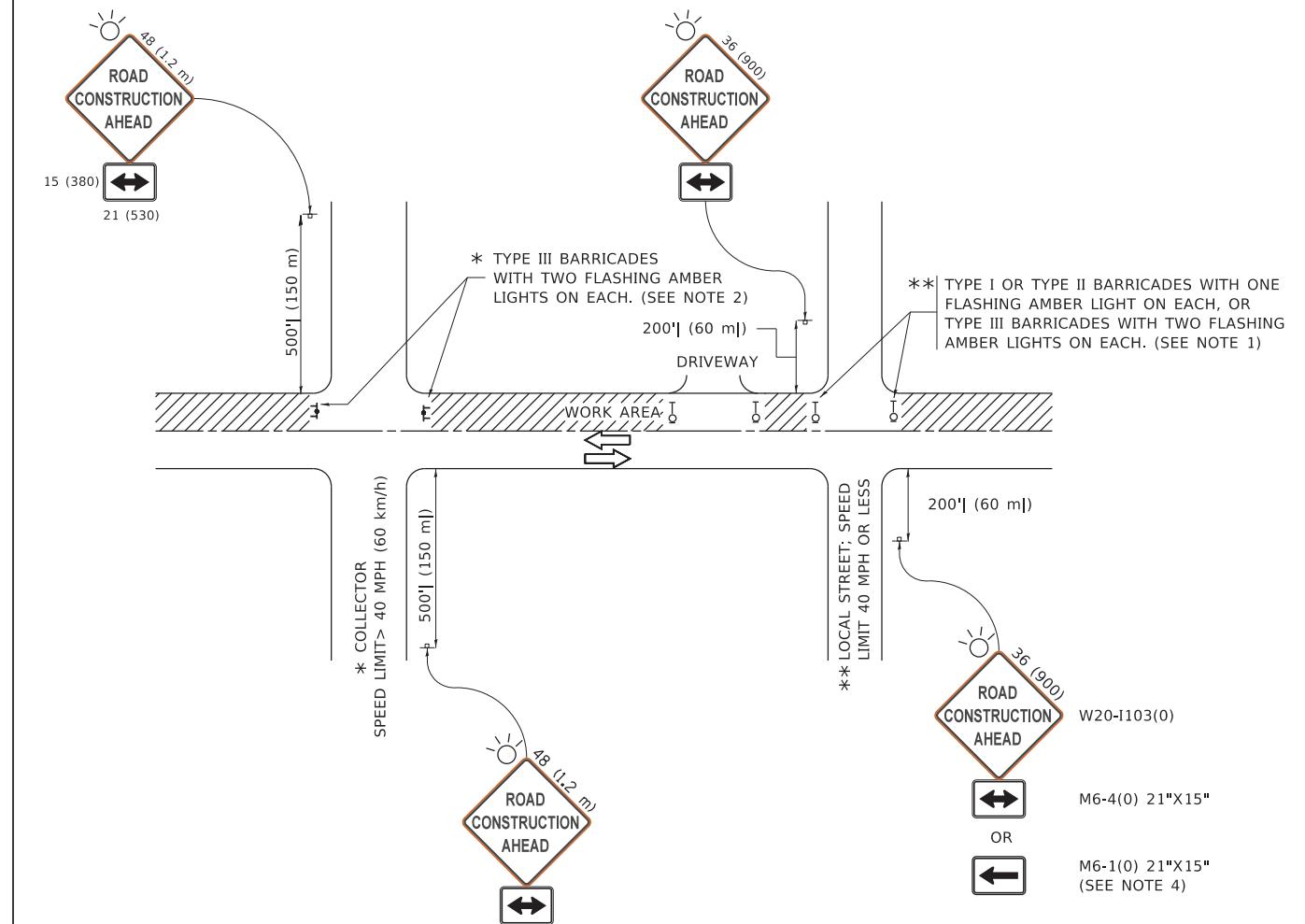
SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

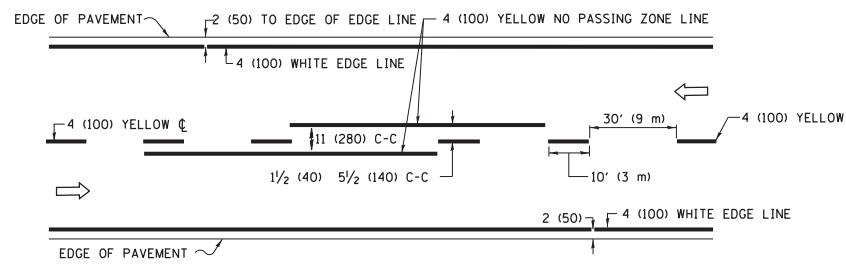


NOTES:

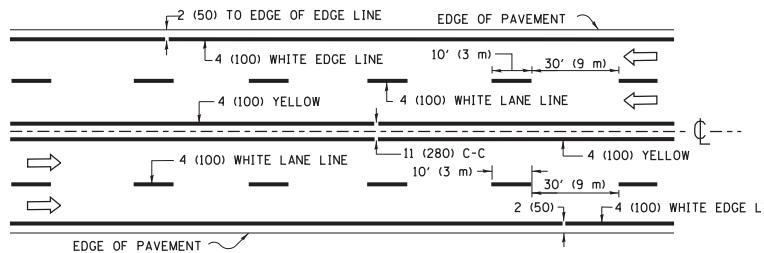
1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

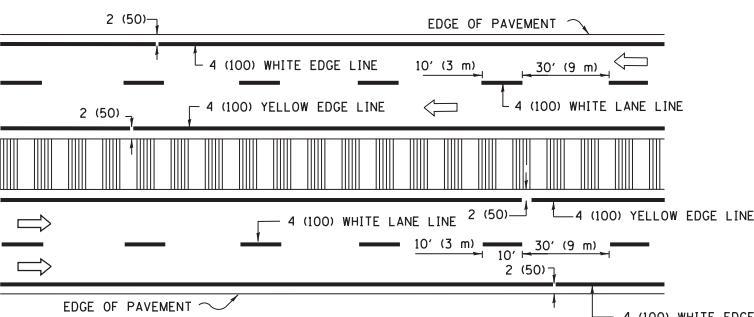
| STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | | | | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS | | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|--|--|--|--|--|--|--|--------------|--------------|--------|-----------------|--------------|
| USER NAME = footemj DESIGNED - L.H.A. DRAWN - REVISED - A. HOUSEH 10-15-96 PLOT SCALE = 50,000 " / in. CHECKED - REVISED - T. RAMMACHER 01-06-00 PLOT DATE = 3/4/2019 DATE - 06-89 REVISED - A. SCHUETZE 07-01-13 REVISED - A. SCHUETZE 09-15-16 | | | | SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA. | | | | TC-10 | CONTRACT NO. | | | |



2-LANE ROADWAY

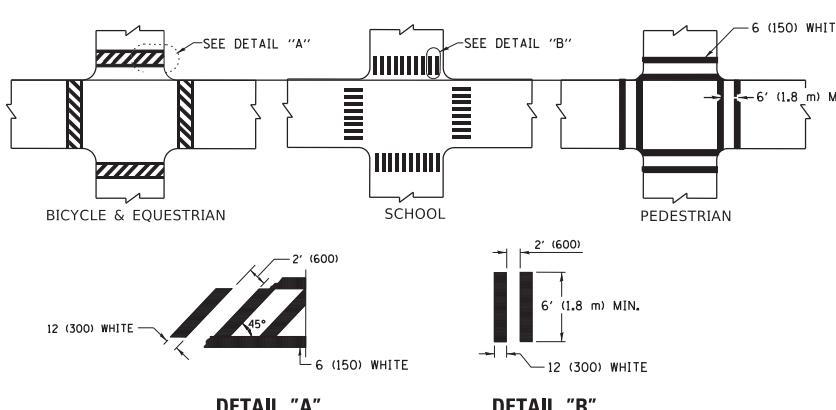


MULTI-LANE UNDIVIDED



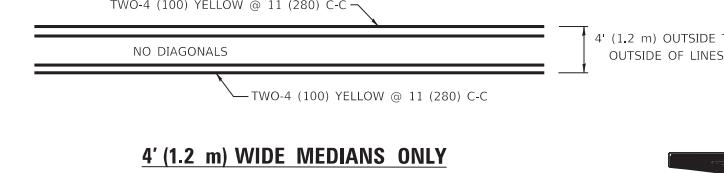
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

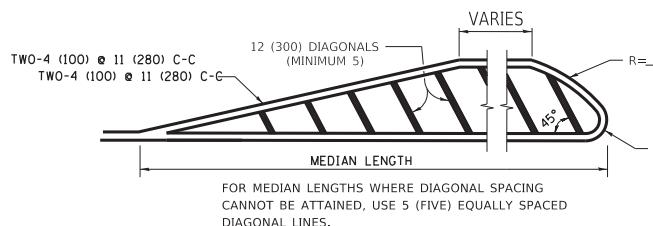


TYPICAL CROSSWALK MARKING

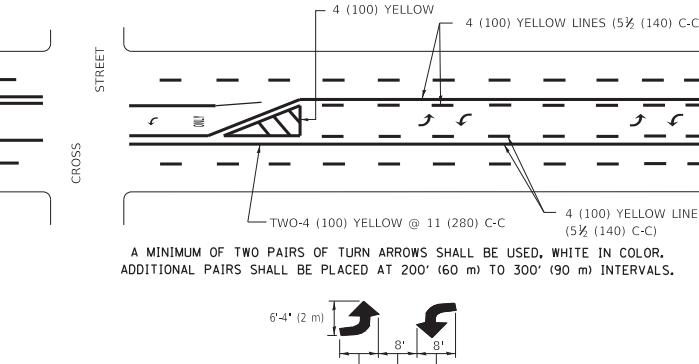
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



4' (1.2 m) WIDE MEDIANS ONLY

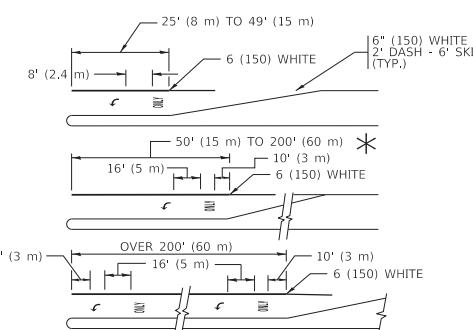


MEDIAN OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

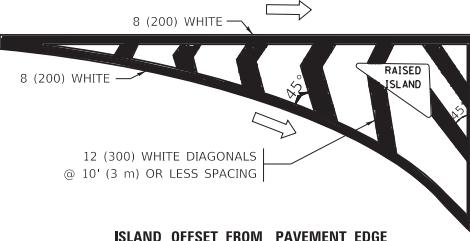
TYPICAL PAINTED MEDIAN MARKING



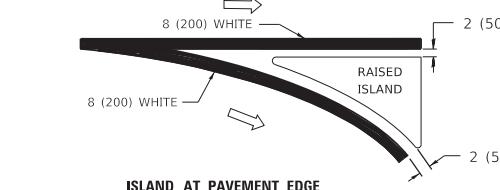
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

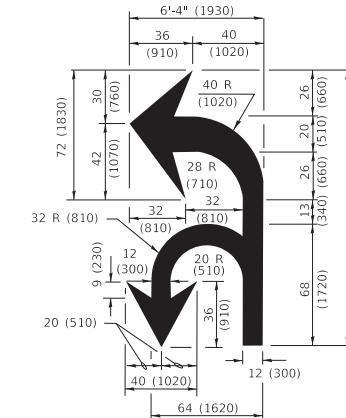
TYPICAL TURN LANE MARKING



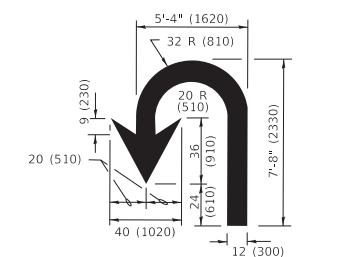
ISLAND OFFSET FROM PAVEMENT EDGE



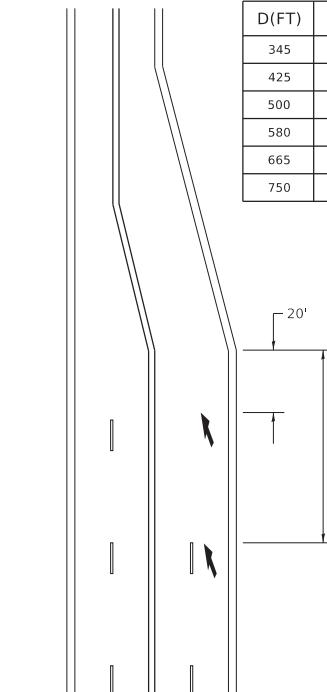
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN



LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

| TYPE OF MARKING | WIDTH OF LINE | PATTERN | COLOR | SPACING / REMARKS |
|---|---|------------------------------|---|--|
| CENTERLINE ON 2 LANE PAVEMENT | 4 (100) | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 @ 4 (100) | SOLID | YELLOW | 11 (280) C-C |
| NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS | 4 (100) 2 @ 4 (100) | SOLID SOLID | YELLOW YELLOW | 5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100) 5 (125) ON FREEWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) | SAME AS LINE BEING EXTENDED | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8 m) SPACE |
| EDGE LINES | 4 (100) | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MEDIAN IN YELLOW |
| TURN LANE MARKINGS | 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| TWO WAY LEFT TURN MARKING | 2 @ 4 (100) 8' (2.4m) LEFT ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. |
| STOP LINES | 24 (600) | SOLID | WHITE | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT; OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| PAINTED MEDIAN | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIAN | SOLID | YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| GORE MARKING AND CHANNELIZING LINES | 8 (200) WITH 12 (300) DIAGONALS @ 45° | SOLID | WHITE | DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h)) |
| RAILROAD CROSSING | 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X" | SOLID | WHITE | SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²) |
| SHOULDER DIAGONALS (REQUIRED FOR SHOULDER > 8') | 12 (300) @ 45° | SOLID | WHITE - RIGHT YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h)) |
| U TURN ARROW | SEE DETAIL | SOLID | WHITE | 16.3 SF |
| 2 LANE COMBINATION LEFT AND U TURN | SEE DETAIL | SOLID | WHITE | 30.4 SF |

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

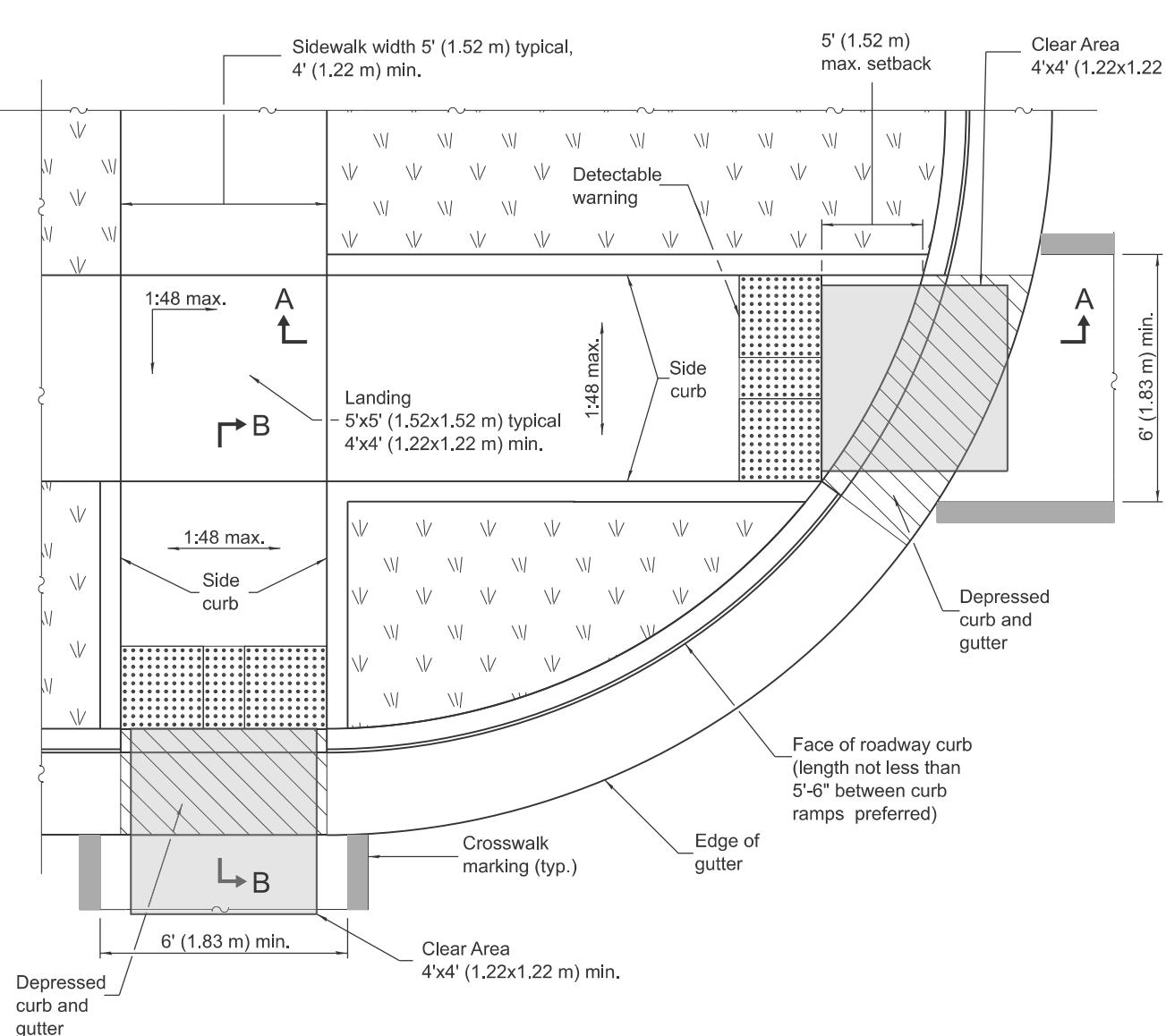
All dimensions are in inches (millimeters) unless otherwise shown.

| | | | |
|----------------------|-----------------|------------------------------|---|
| USER NAME = footemj | DESIGNED - EVER | REVISED - C. JUCIUS 09-09-09 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION |
| DRAWN - | | REVISED - C. JUCIUS 07-01-13 | |
| CHECKED - | | REVISED - C. JUCIUS 12-21-15 | |
| PLOT DATE = 3/4/2019 | DATE - 03-19-90 | REVISED - C. JUCIUS 04-12-16 | |

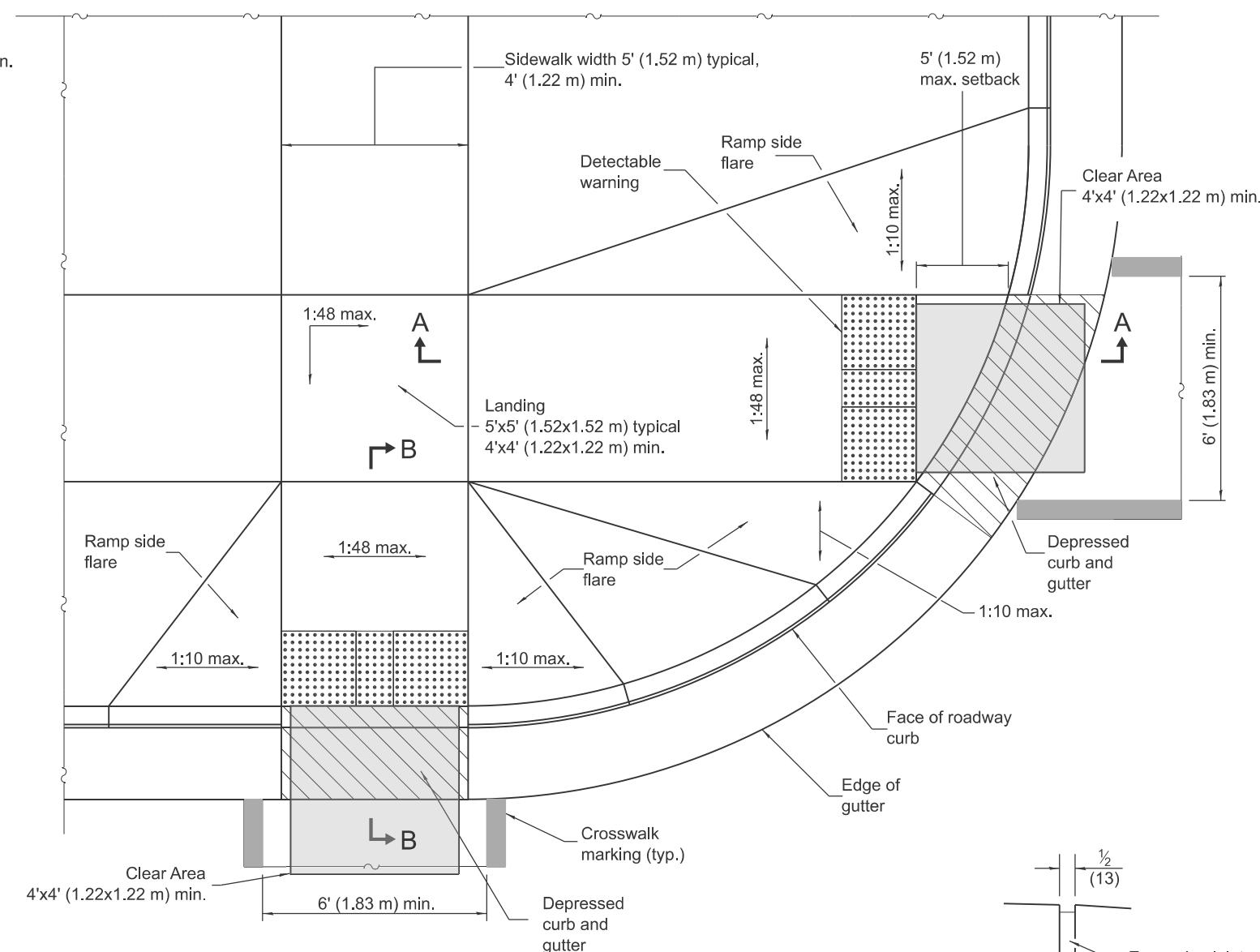
DISTRICT ONE TYPICAL PAVEMENT MARKINGS

| | | | | | | | | | | |
|-------------|---|------|--------|------|---------|-----------|---------|--------|--------------|-----------|
| SCALE: NONE | 1 | OF 2 | Sheets | STA. | TO STA. | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | | | | | | | 21 | 21 |

TC-13 CONTRACT NO.
ILLINOIS FED. AID PROJECT

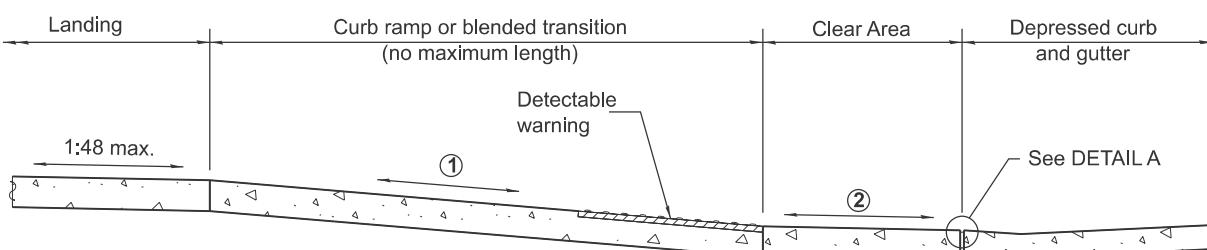


RAMPS IN LANDSCAPED AREA
SETBACK $\leq 5'$



RAMPS IN PAVED AREA
SETBACK $\leq 5'$

DETAIL A

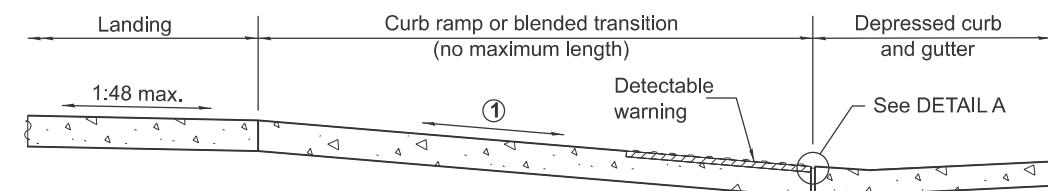


SECTION A-A

① The running slope of a curb ramp shall be 1:12 max. The running slope of a blended transition shall be 1:20 max.

② Clear Area shall be located outside the travel lane inclusive of any bicycle lanes. The running slope shall be 1:20 max and the cross slope shall be:

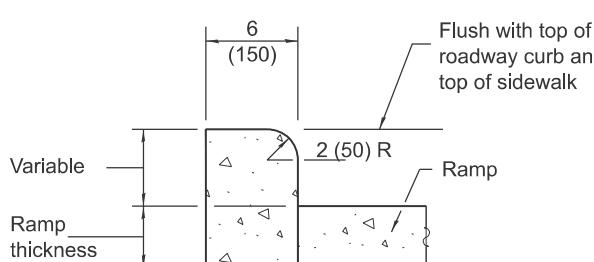
- Signalized/Uncontrolled Intersection - 1:20
- Yield/Stop Controlled Intersection - 1:48
- Midblock - grade of the road



SECTION B-B

① The running slope of a curb ramp shall be 1:12 max. The running slope of a blended transition shall be 1:20 max.

See Sheet 2 for GENERAL NOTES.



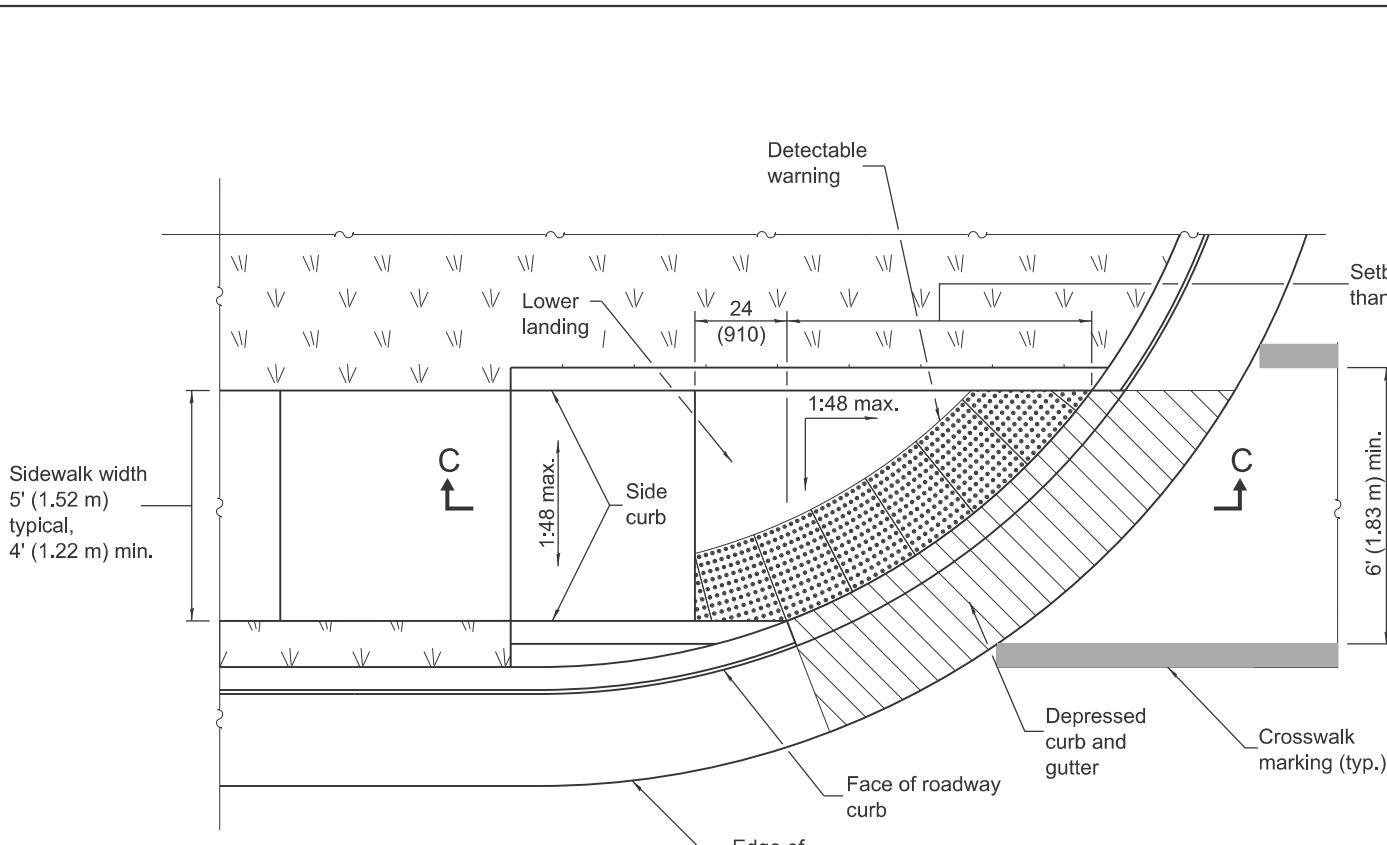
SIDE CURB DETAIL

| DATE | REVISIONS |
|--------|---|
| 1-1-25 | Indicated "Clear Area" Location and updated cross-slopes. |
| 1-1-19 | Removed "15-foot rule", added "Blended transitions" and placement tolerances for detectable warnings. |

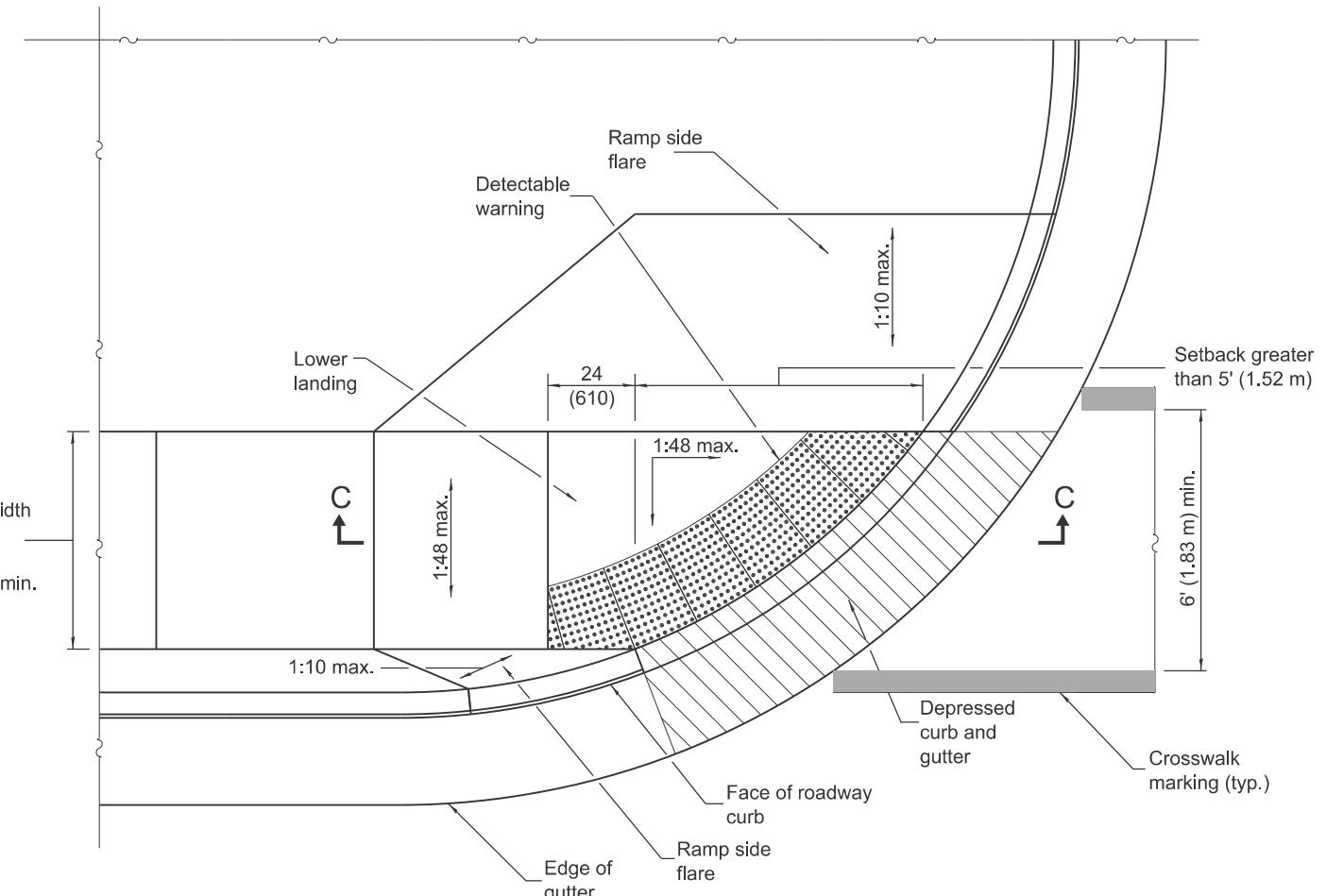
PERPENDICULAR CURB RAMPS FOR SIDEWALKS

(Sheet 1 of 2)

STANDARD 424001-12



RAMP IN LANDSCAPED AREA SETBACK > 5'



RAMP IN PAVED AREA
SETBACK > 5'

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

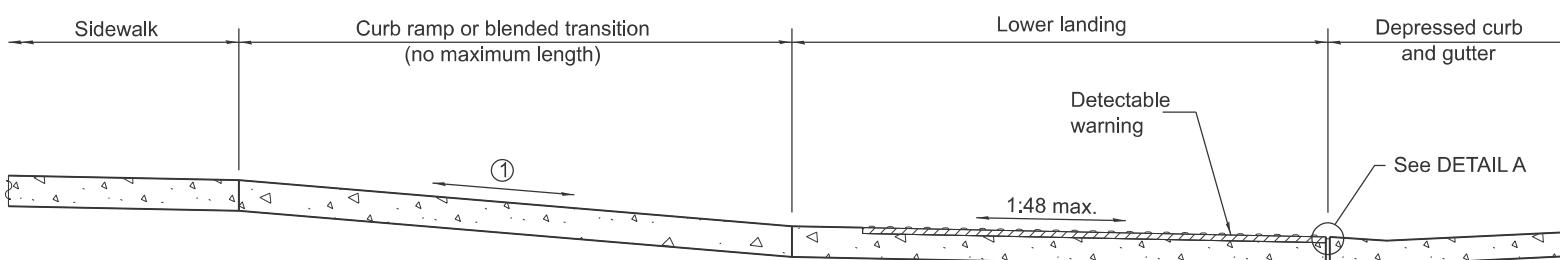
Where 1:48 maximum slope is shown, 1:64 is preferred

Detachable warnings are shown in their ideal locations but the following placement tolerances are allowed.

- Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.
- Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

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



SECTION C-C

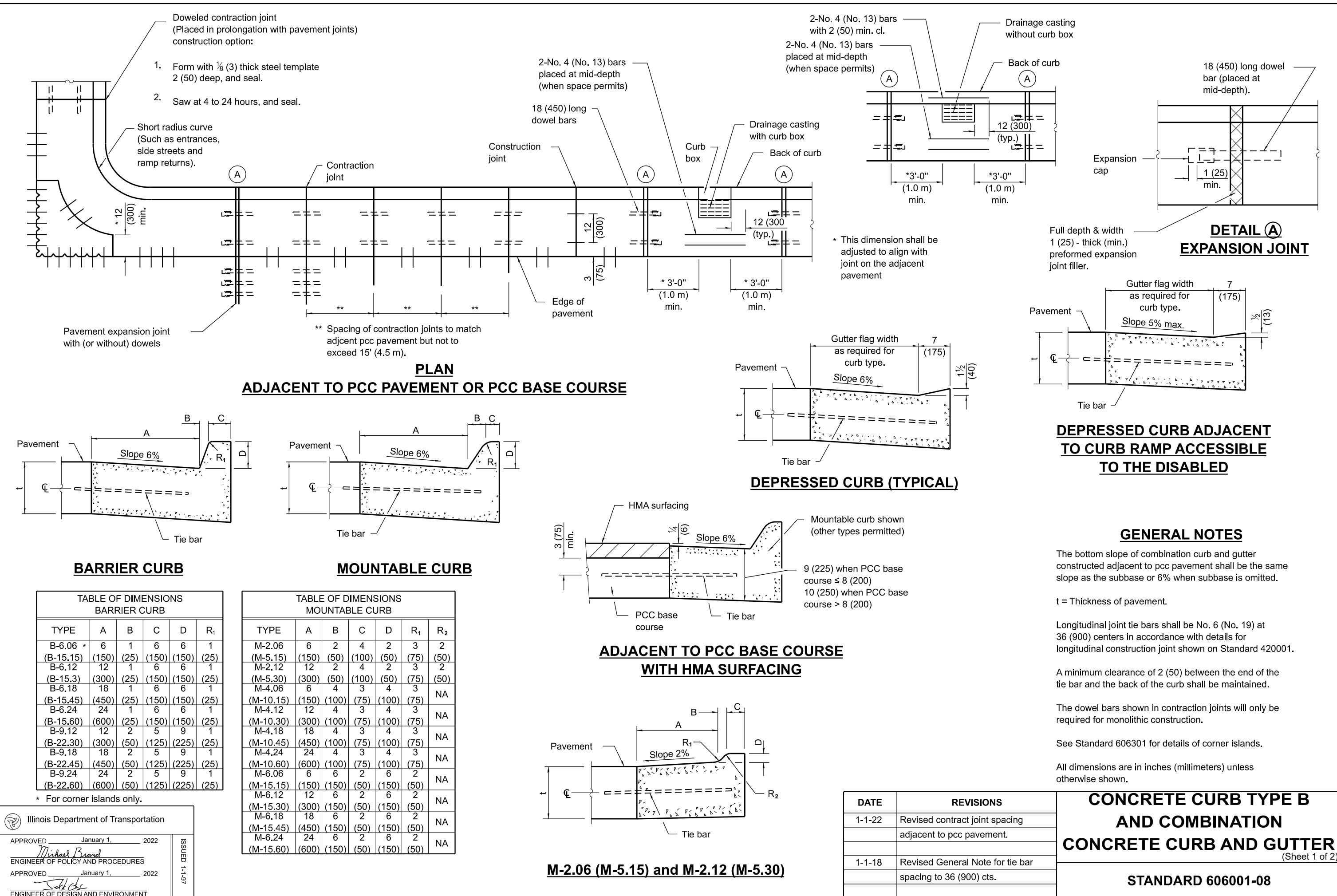
① The running slope of a curb ramp shall be 1:12 max. The running slope of a blended transition shall be 1:20 max.

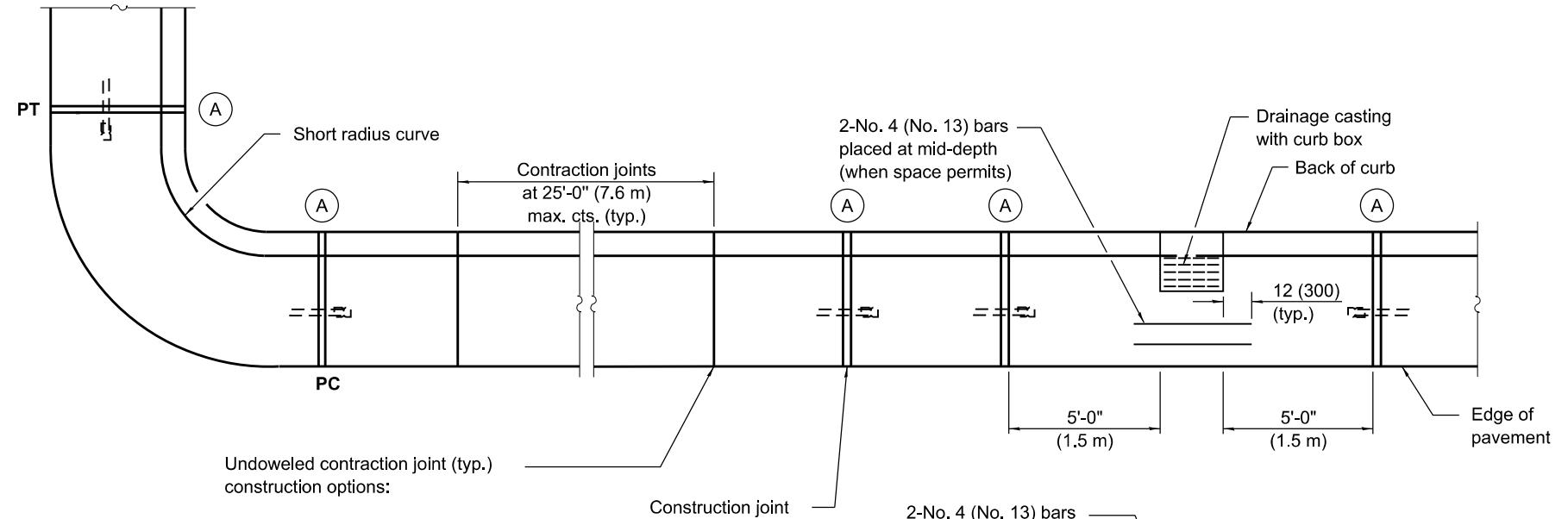


PERPENDICULAR CURB RAMPS FOR SIDEWALKS

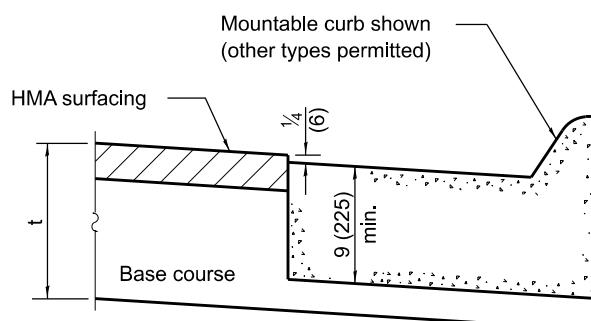
(Sheet 2 of 2)

STANDARD 424001-12

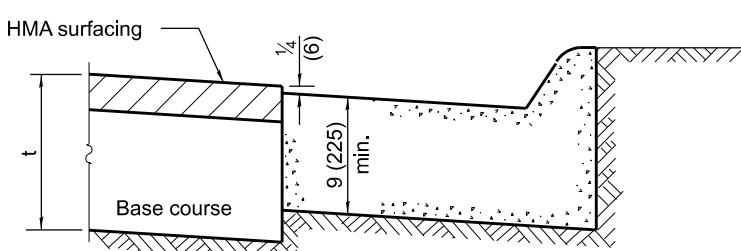




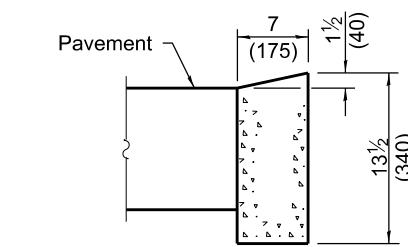
PLAN



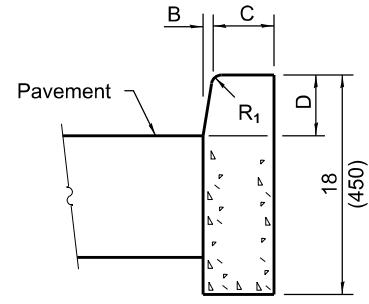
ON DISTURBED SUBGRADE



ON UNDISTURBED SUBGRADE

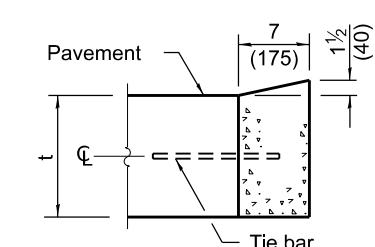


DEPRESSED CURB

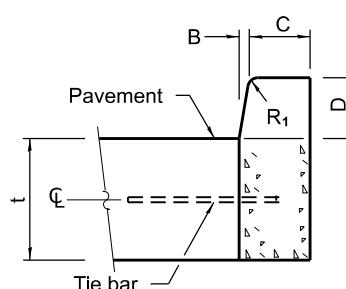


BARRIER CURB

ADJACENT TO FLEXIBLE PAVEMENT



DEPRESSED CURB



BARRIER CURB

ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

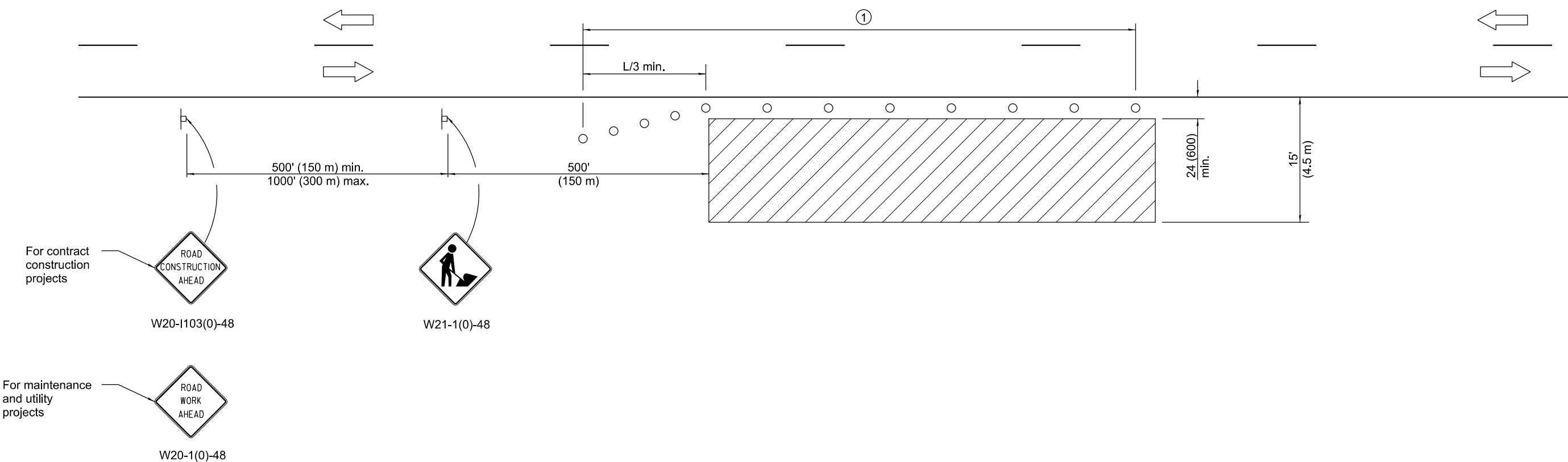
CONCRETE CURB TYPE B

**CONCRETE CURB TYPE B
AND COMBINATION
CONCRETE CURB AND GUTTER**
(Sheet 2 of 2)

STANDARD 606001-08

| | |
|---|---------------------------------------|
| | Illinois Department of Transportation |
| APPROVED <i>Michael Beard</i> January 1, 2022 | ENGINEER OF POLICY AND PROCEDURES |
| APPROVED <i>John H. Hock</i> January 1, 2022 | ENGINEER OF DESIGN AND ENVIRONMENT |

ADJACENT TO FLEXIBLE PAVEMENT



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 mm) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT FORMULAS

English (Metric)

$$40 \text{ mph (70 km/h)} \quad L = \frac{WS^2}{60} \quad L = \frac{WS^2}{150}$$

or less:

$$45 \text{ mph (80 km/h)} \quad L = (W)(S) \quad L = 0.65(W)(S)$$

or greater:

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

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

TYPICAL APPLICATIONS

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

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.

SYMBOLS

Work area

Sign

Cone, drum or barricade

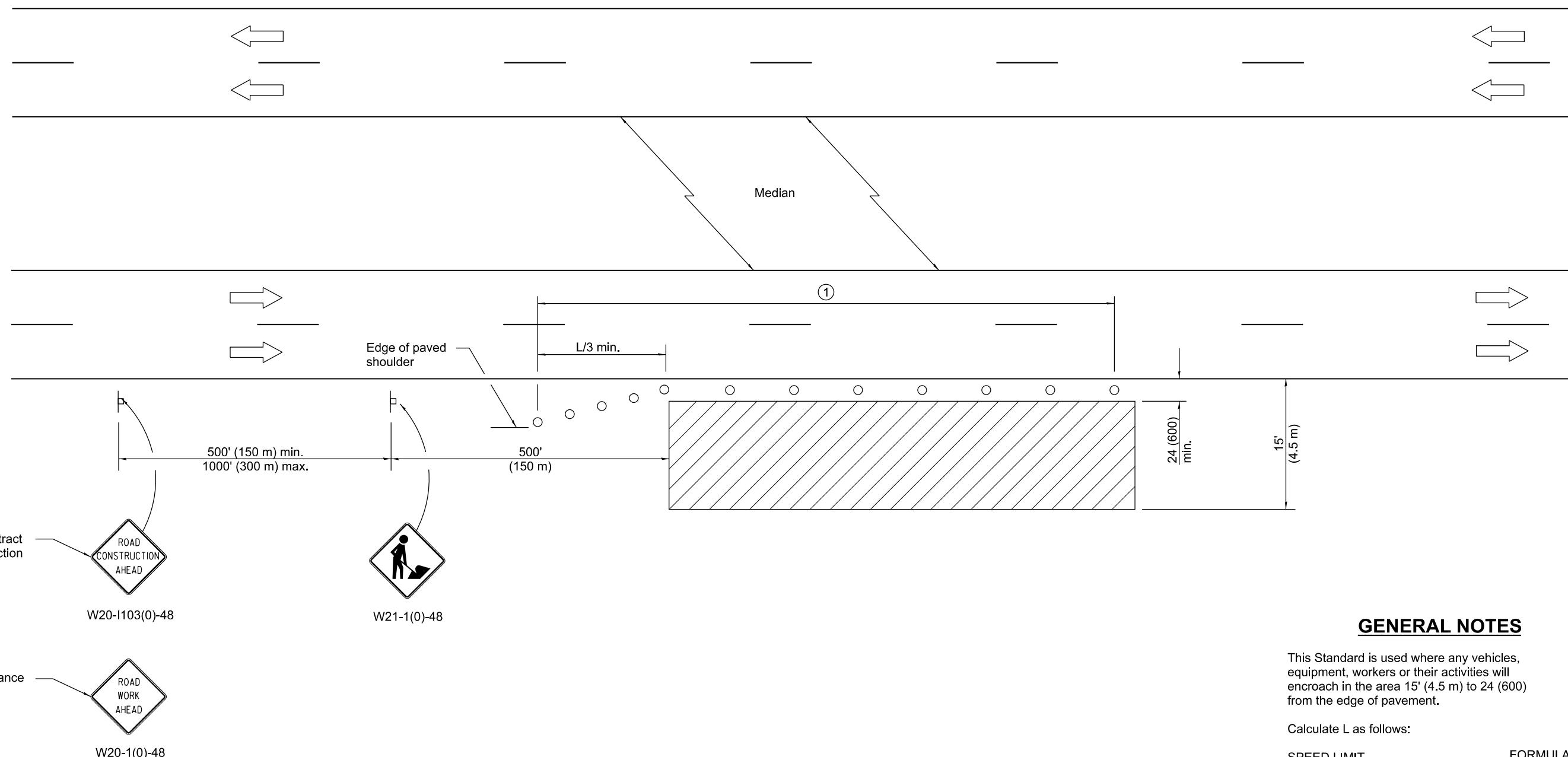
| DATE | REVISIONS |
|--------|--|
| 1-1-14 | Revised workers sign number to agree with current MUTCD. |
| | |
| 1-1-13 | Omitted text 'WORKERS' sign. |
| | |
| | |

OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

STANDARD 701006-05

| | |
|------------------------------------|---------------------------------------|
| | Illinois Department of Transportation |
| APPROVED | January 1, 2014 |
| ENGINEER OF SAFETY ENGINEERING | |
| APPROVED | January 1, 2014 |
| ENGINEER OF DESIGN AND ENVIRONMENT | |

ISSUE 1-1-14



TYPICAL APPLICATIONS

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

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.

SYMBOLS

Work area
Sign
Cone, drum or barricade

| | |
|------------------------------------|---------------------------------------|
| | Illinois Department of Transportation |
| APPROVED | January 1, 2016 |
| ENGINEER OF SAFETY ENGINEERING | |
| APPROVED | January 1, 2016 |
| ENGINEER OF DESIGN AND ENVIRONMENT | |

1-6-11-1

| DATE | REVISIONS |
|--------|--|
| 4-1-16 | Corrected typo in title. |
| | |
| | |
| 1-1-14 | Revised workers sign number to agree with current MUTCD. |
| | |

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 mm) from the edge of pavement.

Calculate L as follows:

| SPEED LIMIT | FORMULAS |
|---------------------------|--|
| English | (Metric) |
| 40 mph (70 km/h) or less: | $L = \frac{WS^2}{60}$ $L = \frac{WS^2}{150}$ |

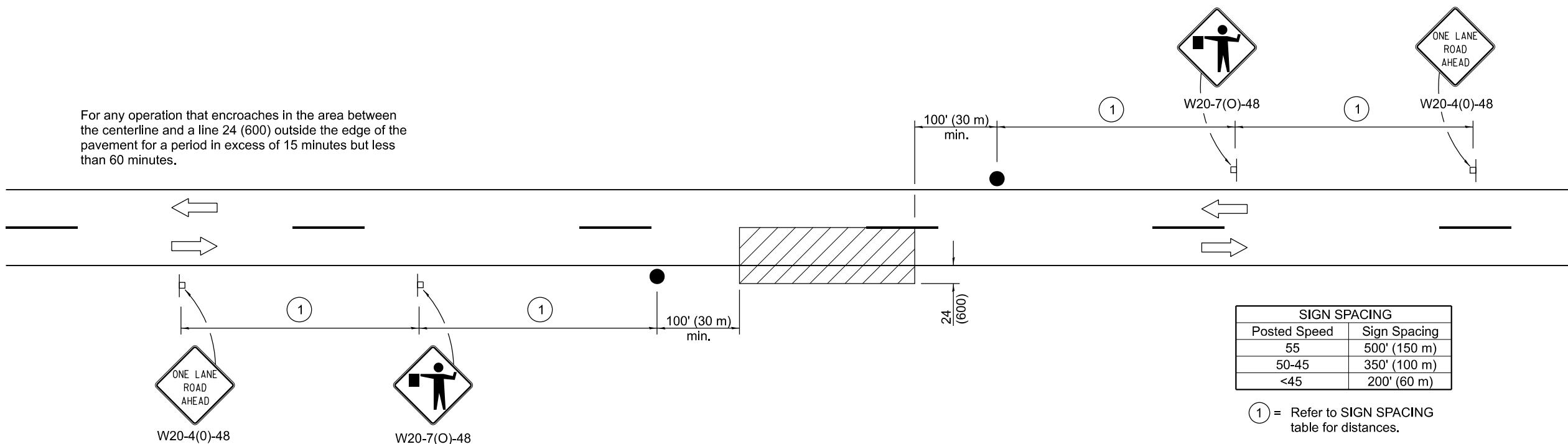
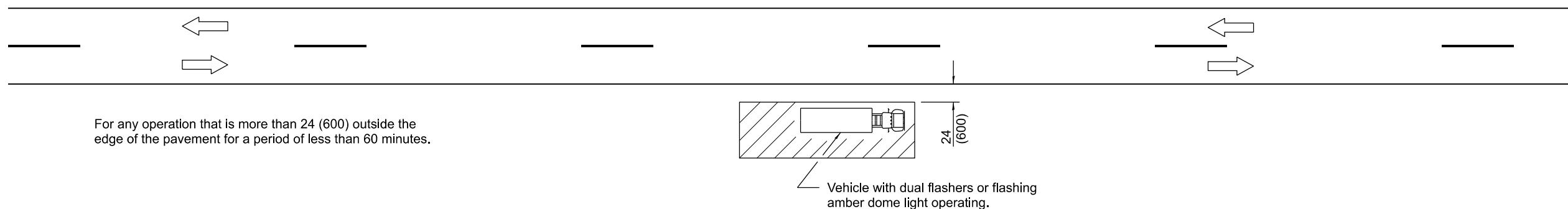
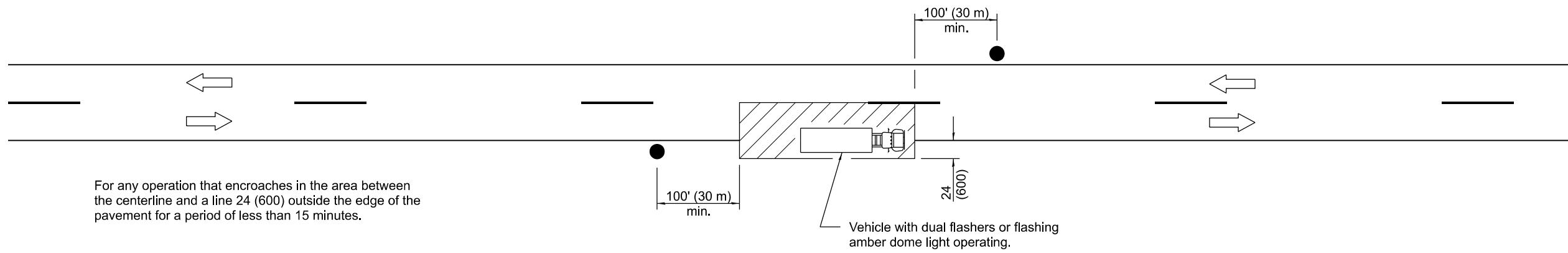
| | | |
|------------------------------|--------------|------------------|
| 45 mph (80 km/h) or greater: | $L = (W)(S)$ | $L = 0.65(W)(S)$ |
|------------------------------|--------------|------------------|

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

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

| OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE |
|--|
| STANDARD 701101-05 |



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

TYPICAL APPLICATIONS

- Marking patches
- Field survey
- String line
- Utility operations
- Cleaning up debris on pavement

| | |
|------------------------------------|---------------------------------------|
| | Illinois Department of Transportation |
| APPROVED | January 1, 2011 |
| ENGINEER OF SAFETY ENGINEERING | |
| APPROVED | January 1, 2011 |
| ENGINEER OF DESIGN AND ENVIRONMENT | |

| | |
|--------|-------------------------------------|
| 1-1-11 | Revised flagger sign. |
| 1-1-09 | Switched units to English (metric). |

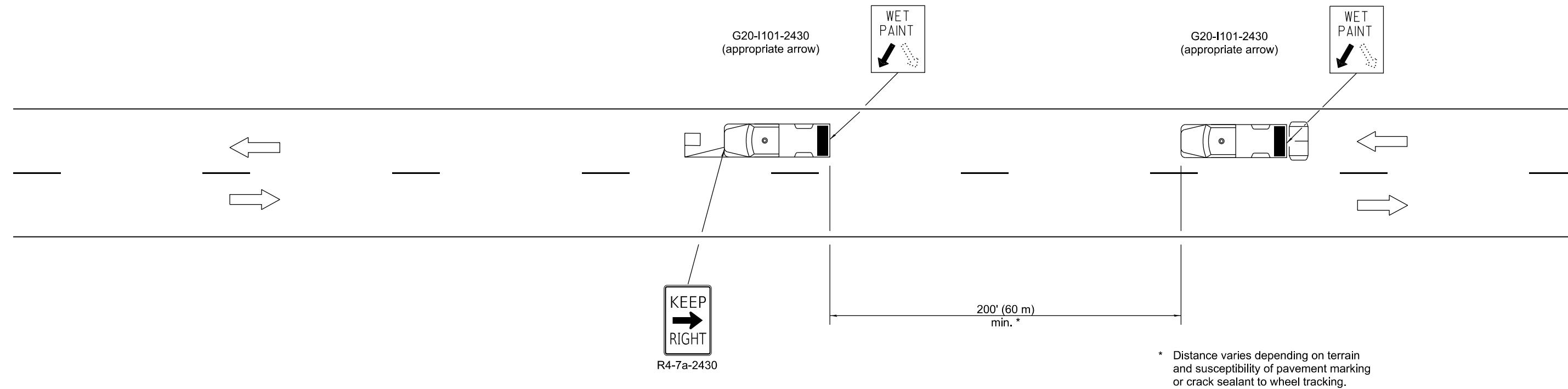
SYMBOLS

- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

| DATE | REVISIONS |
|--------|-------------------------------------|
| 1-1-11 | Revised flagger sign. |
| | |
| | |
| 1-1-09 | Switched units to English (metric). |
| | |
| | |

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD 701301-04



TYPICAL APPLICATIONS

- Landscaping work
- Utility work
- Pavement marking
- Weed spraying
- Roadometer measurements
- Debris cleanup
- Crack pouring

SYMBOLS

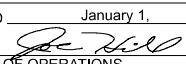
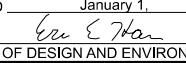
- Arrow board (Hazard Mode only)
- ◀ Truck with headlights, emergency flashers and flashing amber light. (visible from all directions)
- 18 x 18 (450x450) min. orange flag (use when guide wheel is used)
- Truck mounted attenuator

GENERAL NOTES

This Standard is used where any vehicle, equipment, workers or their activities will require a continuous moving operation where the average speed is greater than 3 mph (5 km/h).

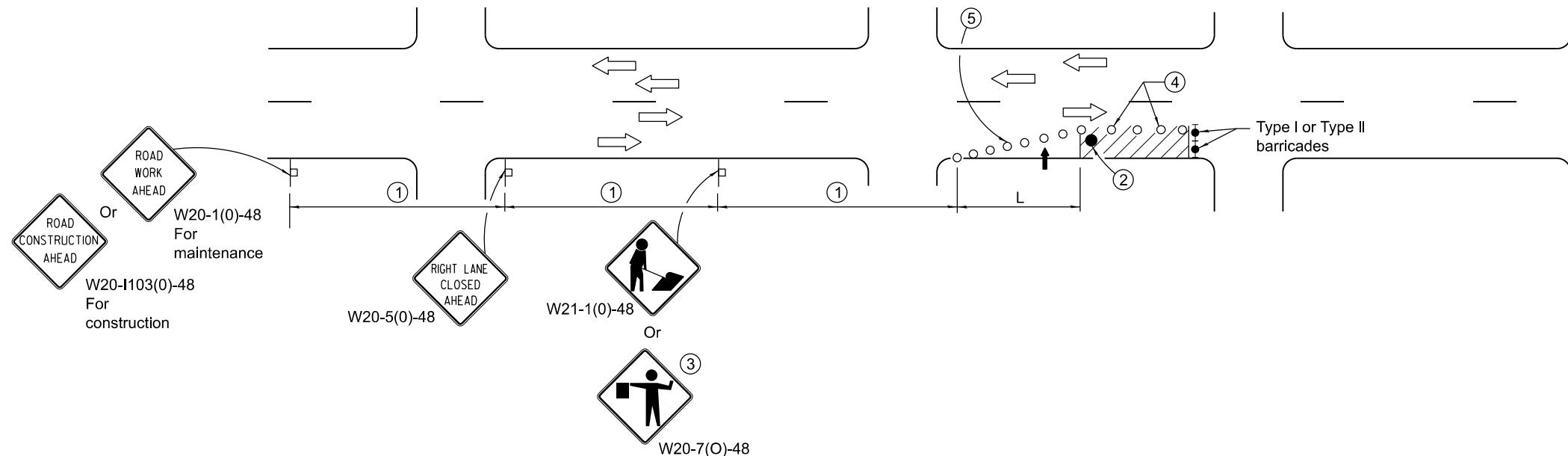
For shoulder operations not encroaching on the pavement, use DETAIL A, Standard 701426.

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

| | |
|--|---------------------------------------|
|  | Illinois Department of Transportation |
| APPROVED  January 1, 2009 | ISSUED 1-1-09 |
| ENGINEER OF OPERATIONS | |
| APPROVED  January 1, 2009 | |
| ENGINEER OF DESIGN AND ENVIRONMENT | |

| DATE | REVISIONS |
|--------|-------------------------------------|
| 1-1-09 | Switched units to English (metric). |
| | Omitted Pass With Care sign. |
| 1-1-00 | Eliminated speed restrictions |
| | in Standard title. |
| | |

| LANE CLOSURE 2L, 2W MOVING OPERATIONS- DAY ONLY |
|---|
| STANDARD 701311-03 |



GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an Urban area.

Calculate L as follows:

SPEED LIMIT

FORMULAS

40 mph (70 km/h)
or less:

$$L = \frac{WS^2}{60} \quad L = \frac{WS^2}{150}$$

45 mph (80 km/h)
or greater:

$$L = (W)(S) \quad L = 0.65(W)(S)$$

W = Width of offset
in feet (meters).

S = Normal posted speed
mph (km/h).

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

| SIGN SPACING | |
|--------------|--------------|
| Posted Speed | Sign Spacing |
| 55 | 500' (150 m) |
| 50-45 | 350' (100 m) |
| <45 | 200' (60 m) |

SYMBOLS

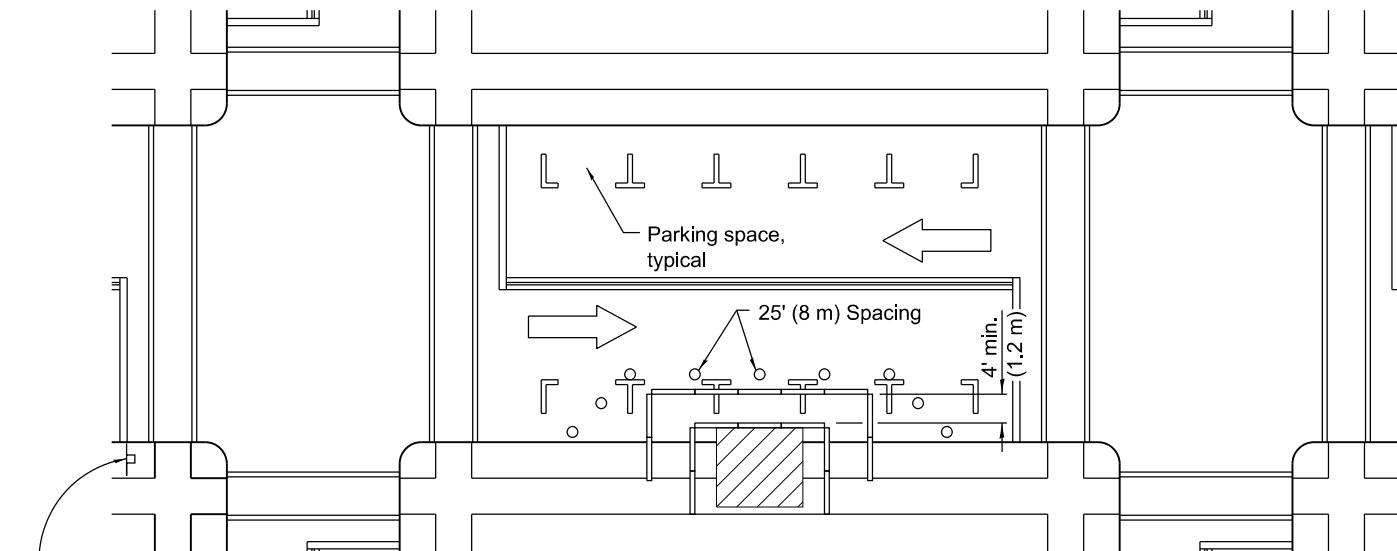
- ↑ Arrow board
- Cone, drum or barricade
- ▢ Sign on portable or permanent support
- ▨ Work area
- Barricade or drum with flashing light
- Flagger with traffic control sign.

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph.
- ③ Use flagger sign only when flagger is present.
- ④ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ⑤ Cones, drums or barricades at 20' (6 m) centers in taper.

| | | |
|------------------------------------|---------------------------------------|---------|
| | Illinois Department of Transportation | |
| APPROVED | January 1, 2015 | 2015 |
| | | |
| ENGINEER OF SAFETY ENGINEERING | | |
| APPROVED | January 1, 2015 | 2015 |
| | | |
| ENGINEER OF DESIGN AND ENVIRONMENT | | |
| | ISSUED | 1-16-17 |

| DATE | REVISIONS |
|--------|--|
| 1-1-15 | Renamed standard. Moved case on Sheet 2 to new Highway Standard. |
| | |
| 1-1-14 | Revised workers sign number to agree with current MUTCD. |
| | |

| URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN | STANDARD 701606-10 |
|--|--------------------|
|--|--------------------|



- ① Omit whenever duplicated by road work traffic control.

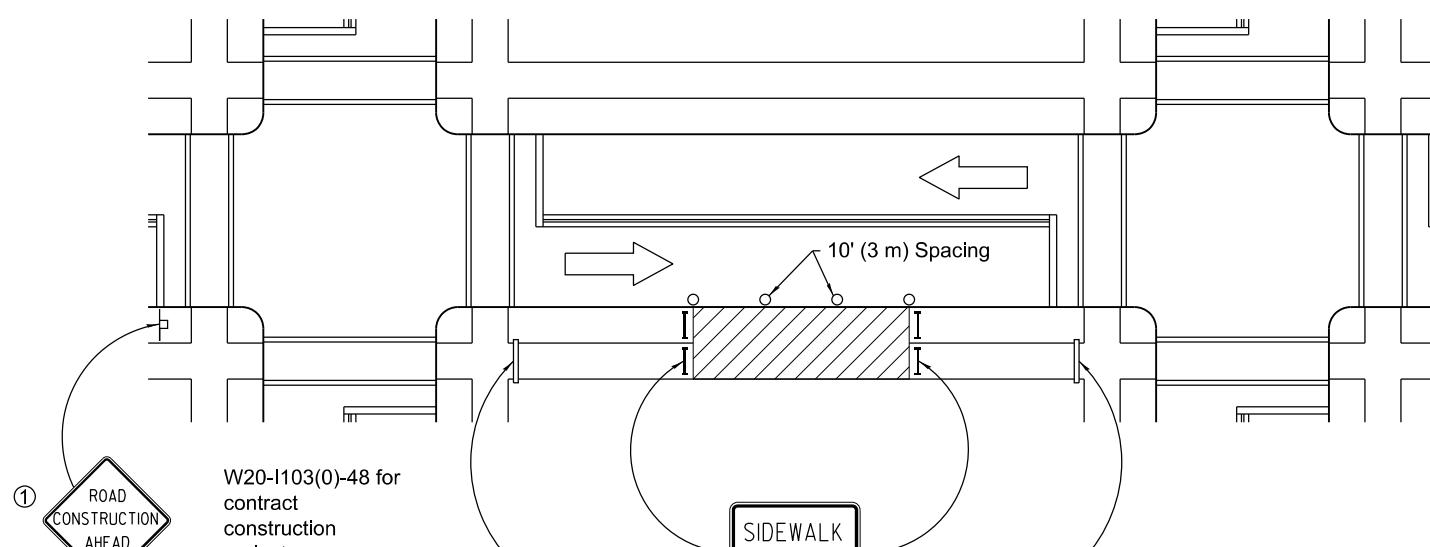
Or

W20-1(0)-48 for
maintenance
and utility
projects

SIDEWALK DIVERSION

SYMBOLS

| | |
|---|--|
|  | Work area |
|  | Sign on portable or permanent support |
|  | Barricade or drum |
|  | Cone, drum or barricade |
|  | Type III barricade |
|  | Detectable pedestrian channelizing barricade |



SIDEWALK CLOSURE

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

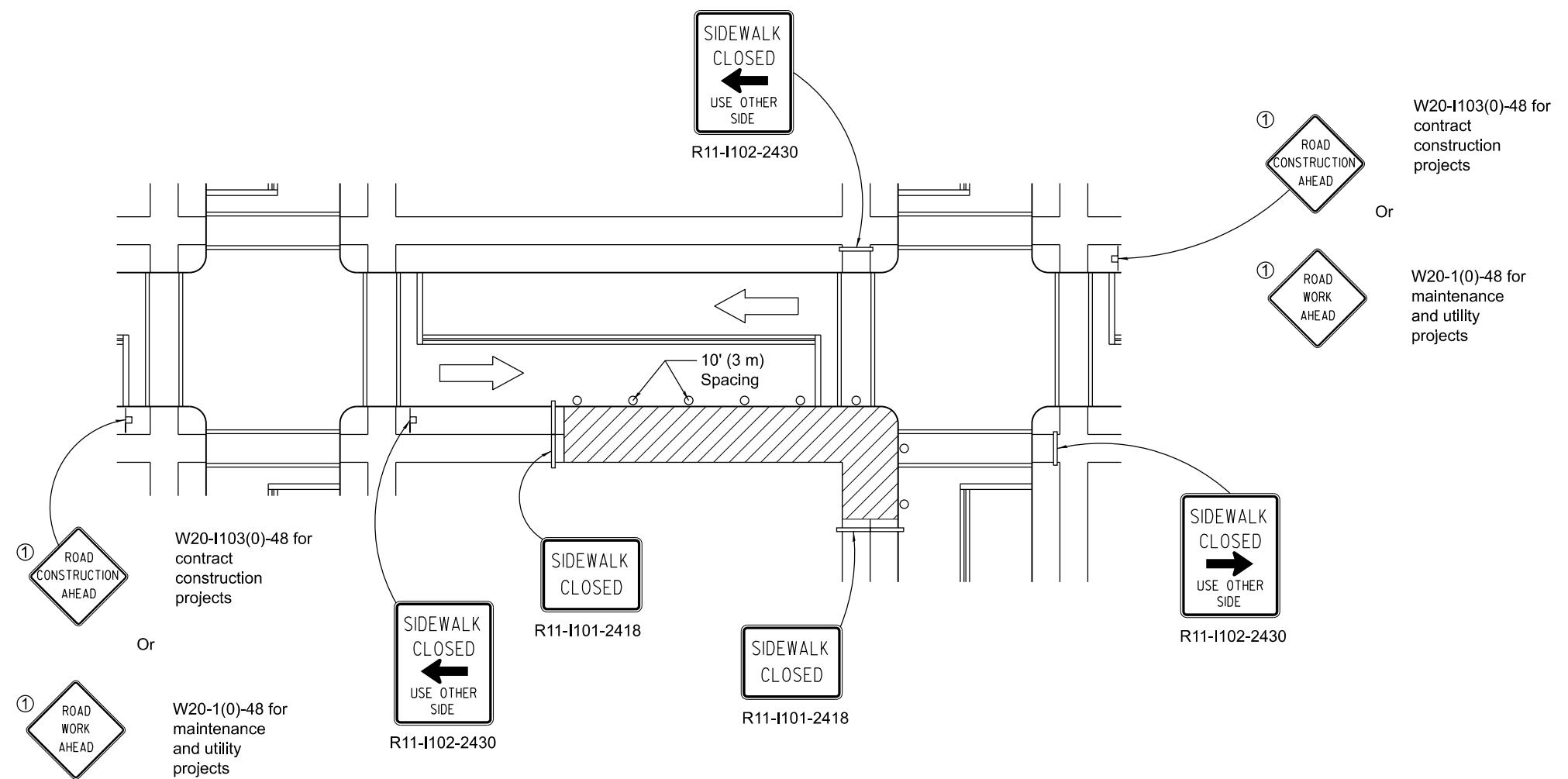
All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|--|
| 4-1-16 | Omitted orange safety fence from standard as this is covered in the standard spec. |
| 1-1-12 | Added SIDEWALK DIVERSION. |
| | Modified appearance of plan views. |
| | Renamed Standard. |

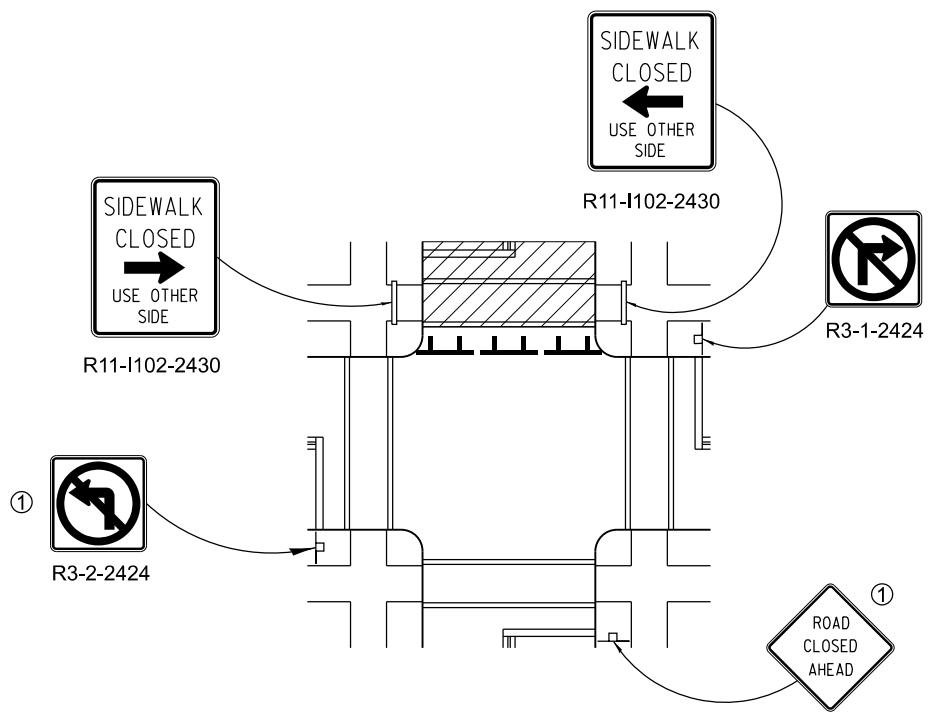
SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

STANDARD 701801-06



CORNER CLOSURE

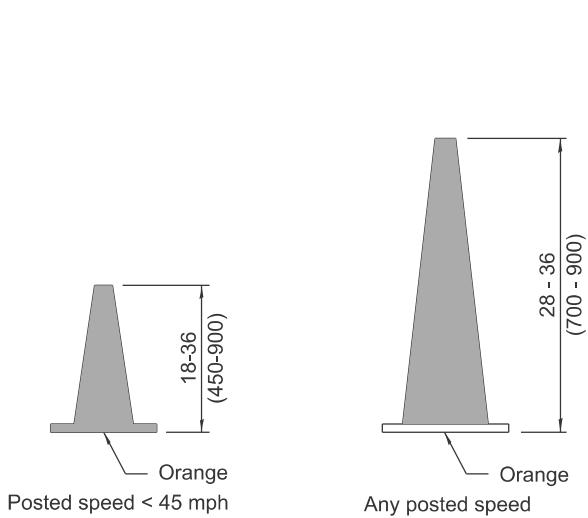


CROSSWALK CLOSURE

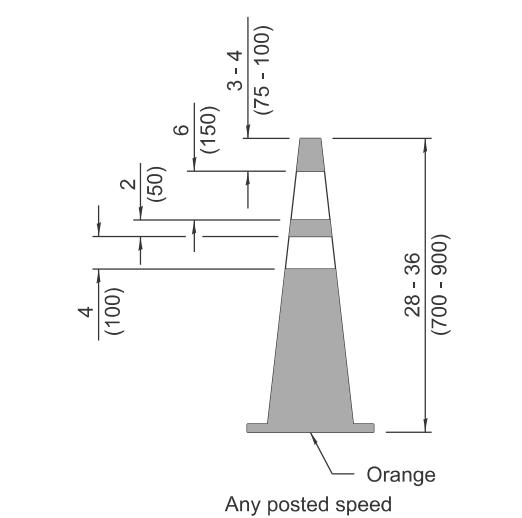
**SIDEWALK, CORNER OR
CROSSWALK CLOSURE**

(Sheet 2 of 2)

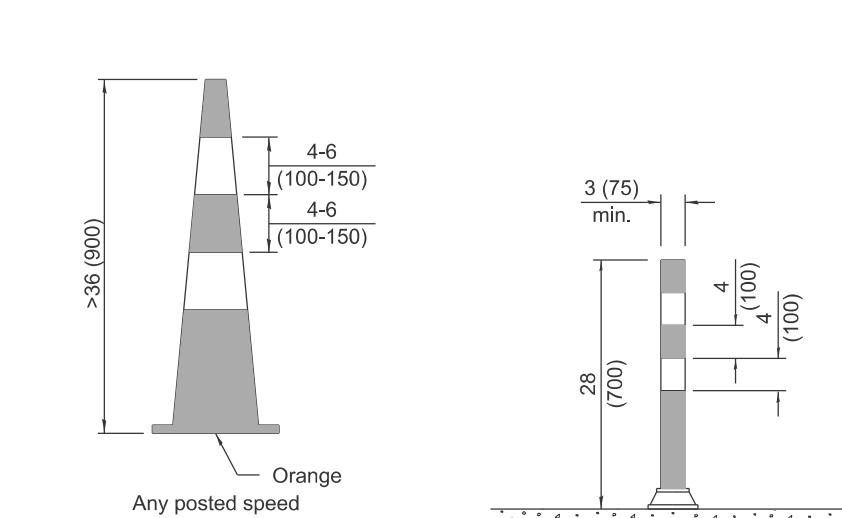
STANDARD 701801-06



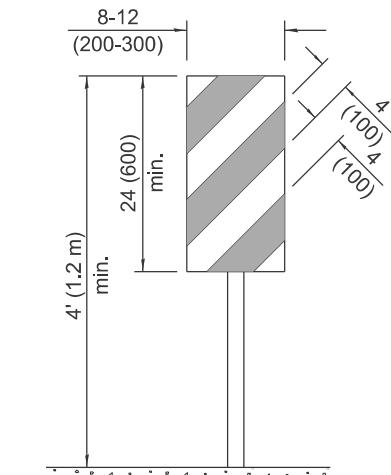
DAYTIME USE



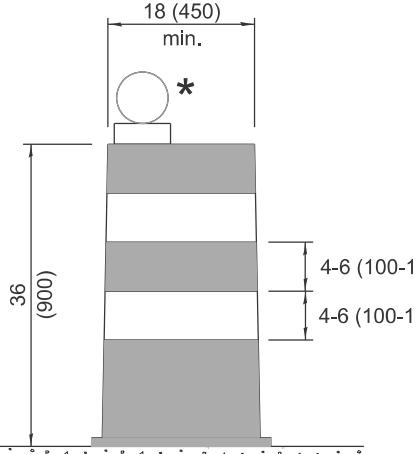
DAY OR NIGHTTIME USE



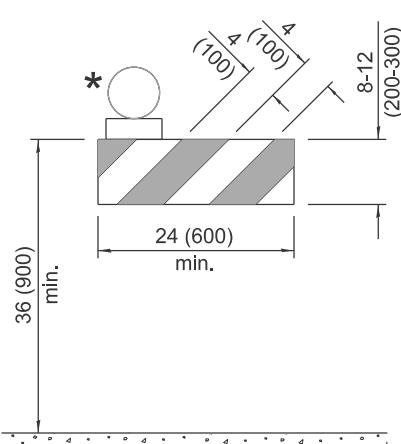
TUBULAR MARKER



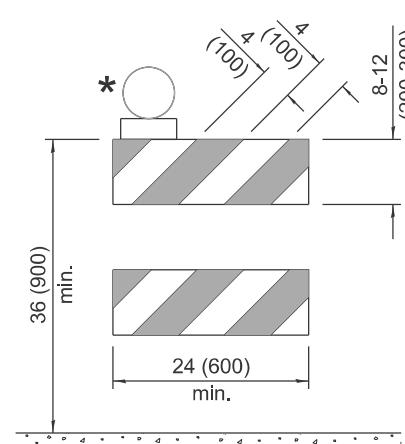
**VERTICAL PANEL
POST MOUNTED**



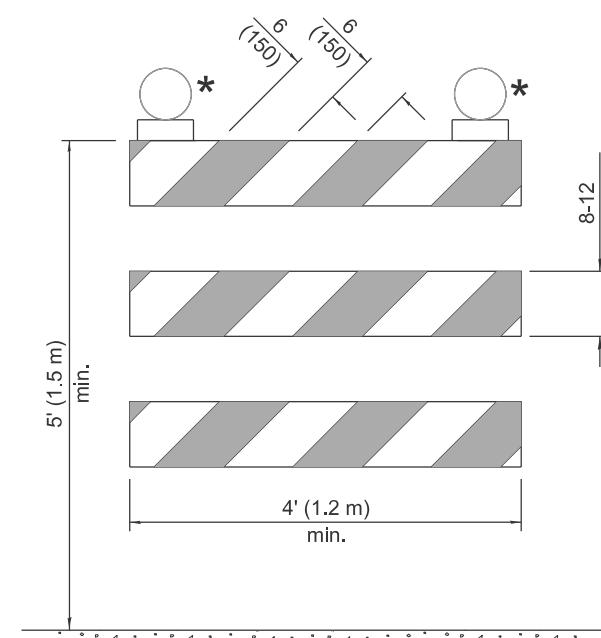
DRUM



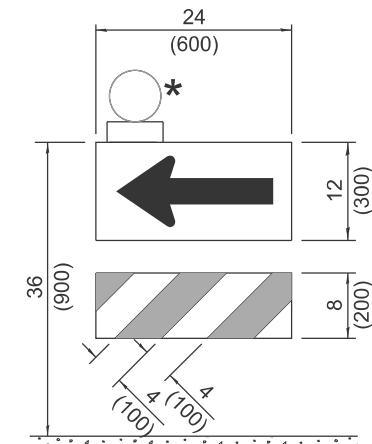
TYPE I BARRICADE



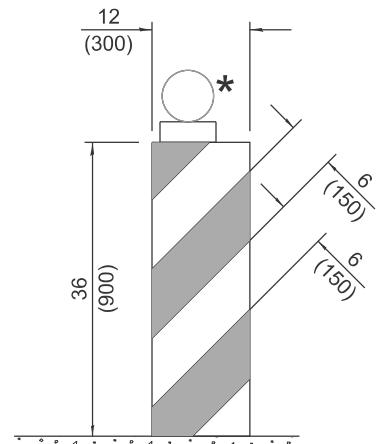
TYPE II BARRICADE



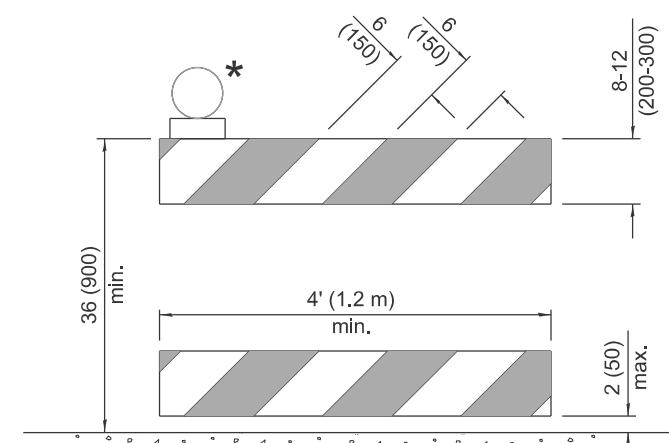
TYPE III BARRICADE



**DIRECTION INDICATOR
BARRICADE**



VERTICAL BARRICADE



**DETECTABLE PEDESTRIAN
CHANNELIZING BARRICADE**

* Warning lights (if required)

| DATE | REVISIONS |
|--------|-----------------------------------|
| 1-1-25 | Updated Temporary Rumble |
| | Strip Detail (sht. 3). |
| 1-1-24 | Revised Type III Barricade notes |
| | (sht. 3) & moved warning light on |
| | post mounted signs to top center. |

GENERAL NOTES
All heights shown shall be measured above the pavement surface.

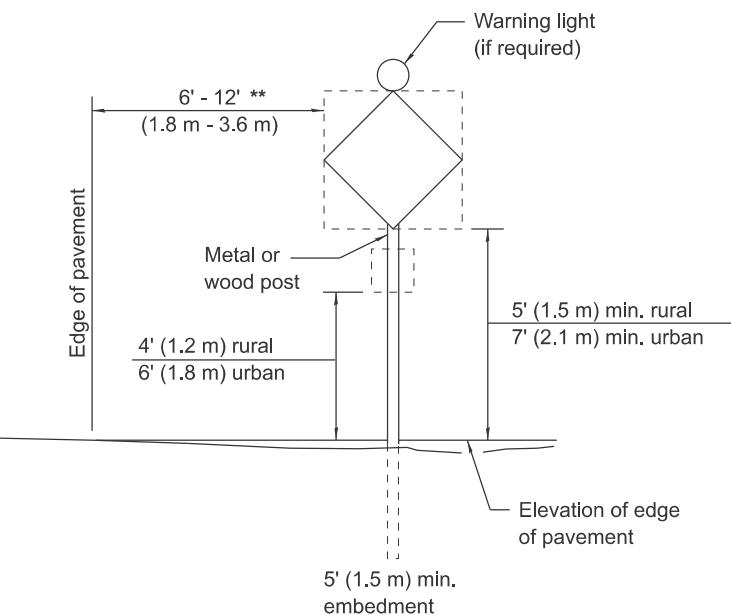
All dimensions are in inches (millimeters) unless otherwise shown.

**TRAFFIC CONTROL
DEVICES**

(Sheet 1 of 3)

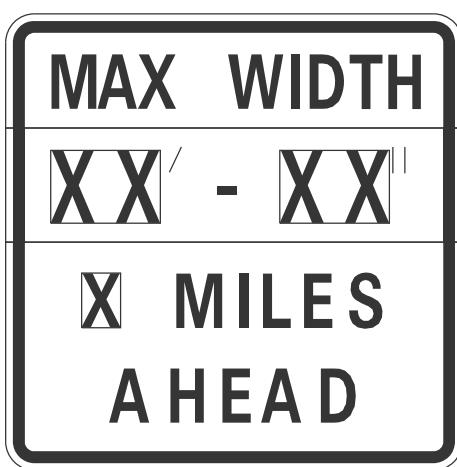
STANDARD 701901-10

| | |
|--|---------------------------------------|
| | Illinois Department of Transportation |
| APPROVED <i>S. E. Flanagan</i> January 1, 2025 | ISSUED 1-1-25 |
| ENGINEER OF SAFETY PROG. AND ENGINEERING | |
| APPROVED <i>J. C. G.</i> January 1, 2025 | |
| ENGINEER OF DESIGN AND ENVIRONMENT | |



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.

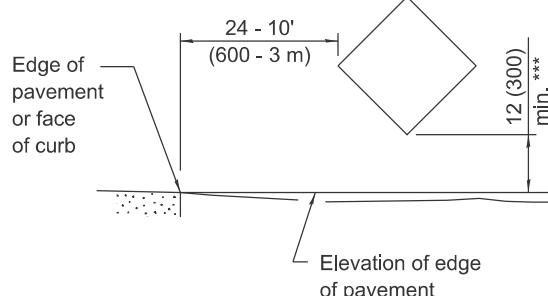


W12-I103-4848

WIDTH RESTRICTION SIGN

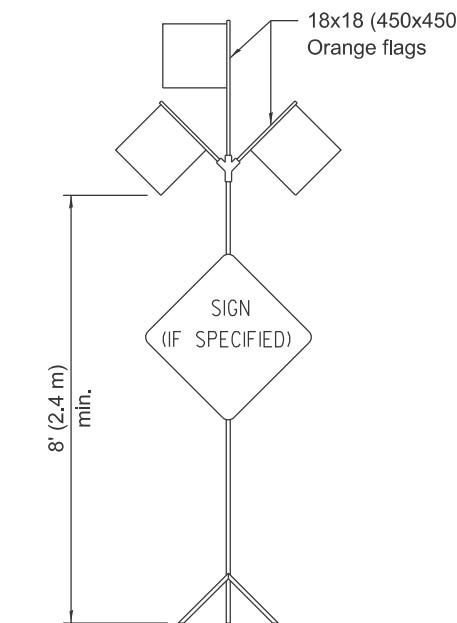
XX'-XX" width and X miles are variable.

| | |
|--|---------------------------------------|
| | Illinois Department of Transportation |
| APPROVED <i>S.E. [Signature]</i> January 1, 2025 | ISSUED 1-1-13 |
| ENGINEER OF SAFETY PROG. AND ENGINEERING | |
| APPROVED <i>R.H. [Signature]</i> January 1, 2025 | |
| ENGINEER OF DESIGN AND ENVIRONMENT | |



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 completely above the devices.



ROAD CONSTRUCTION
NEXT X MILES

G20-I104(0)-6036

END CONSTRUCTION

G20-I105(0)-6024

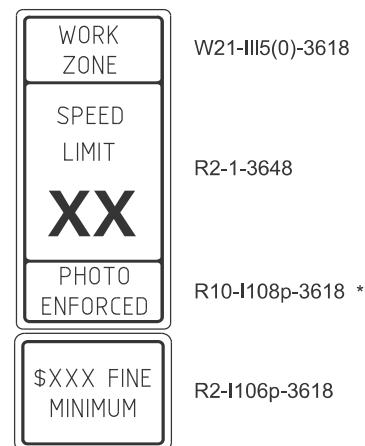
This signing is required for all projects 2 miles (3200 m) or more in length.

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.

WORK LIMIT SIGNING



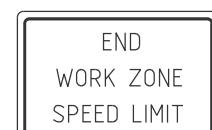
W21-III5(0)-3618

R2-1-3648

R10-I108p-3618 ***

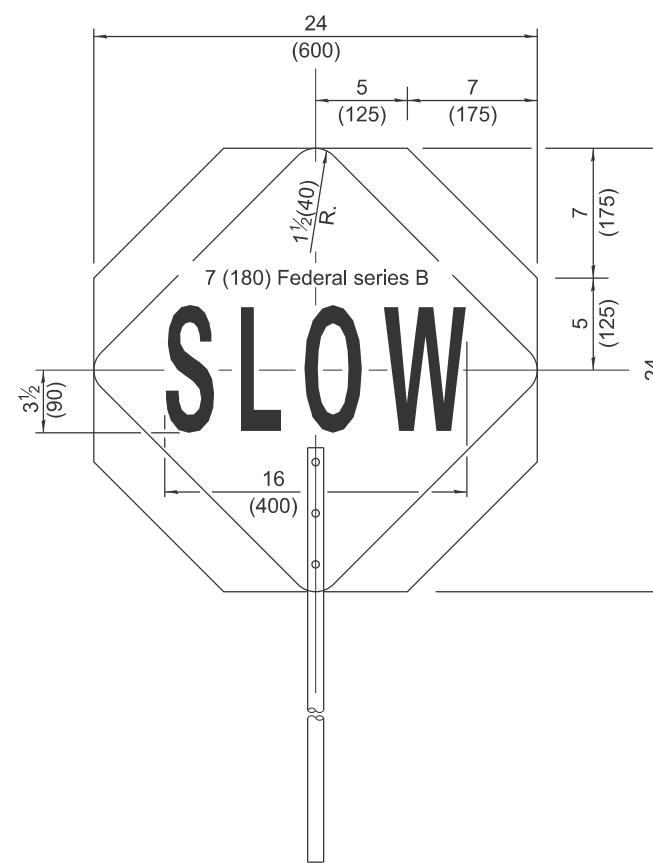
R2-I106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.



G20-I103-6036

This sign shall be used when the above sign assembly is used.



FRONT SIDE

REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN

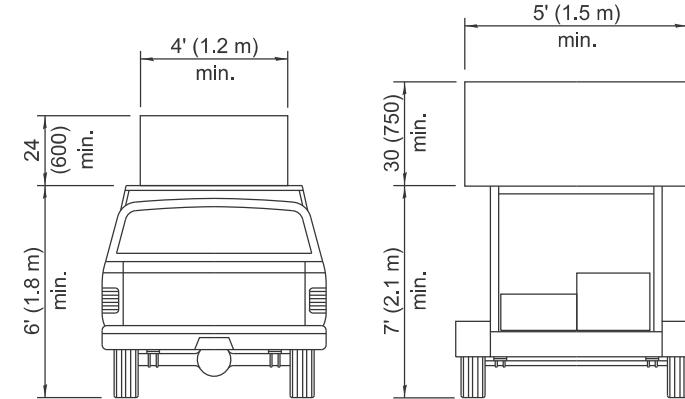
TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

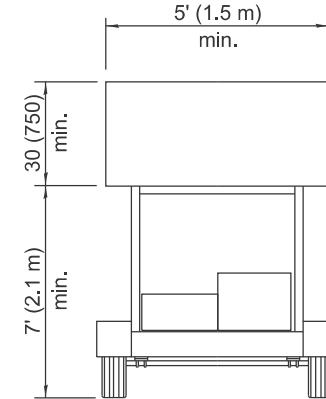
STANDARD 701901-10

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R10-I108p shall only be used along roadways under the jurisdiction of the State.



TYPE A ROOF MOUNTED

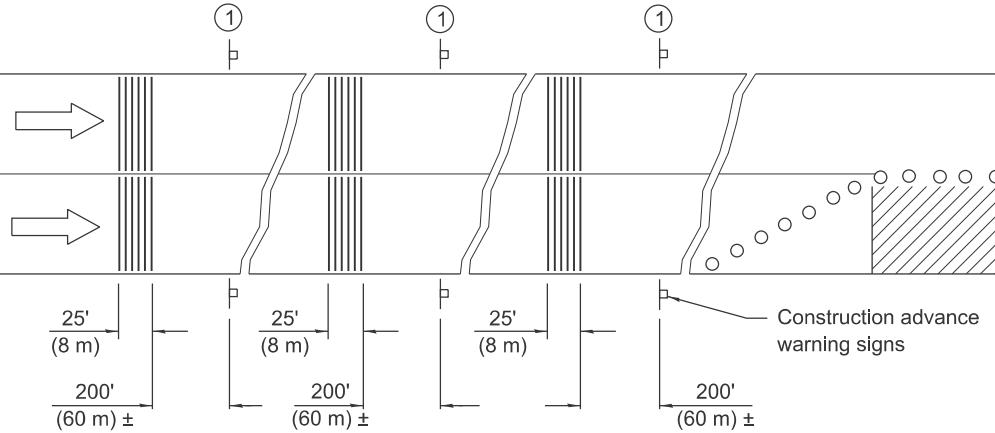


TYPE B
ROOF OR TRAILER
MOUNTED

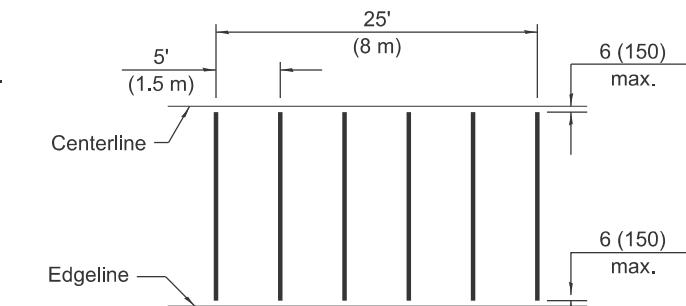


**TYPE C
TRAILER
MOUNTED**

ARROW BOARDS

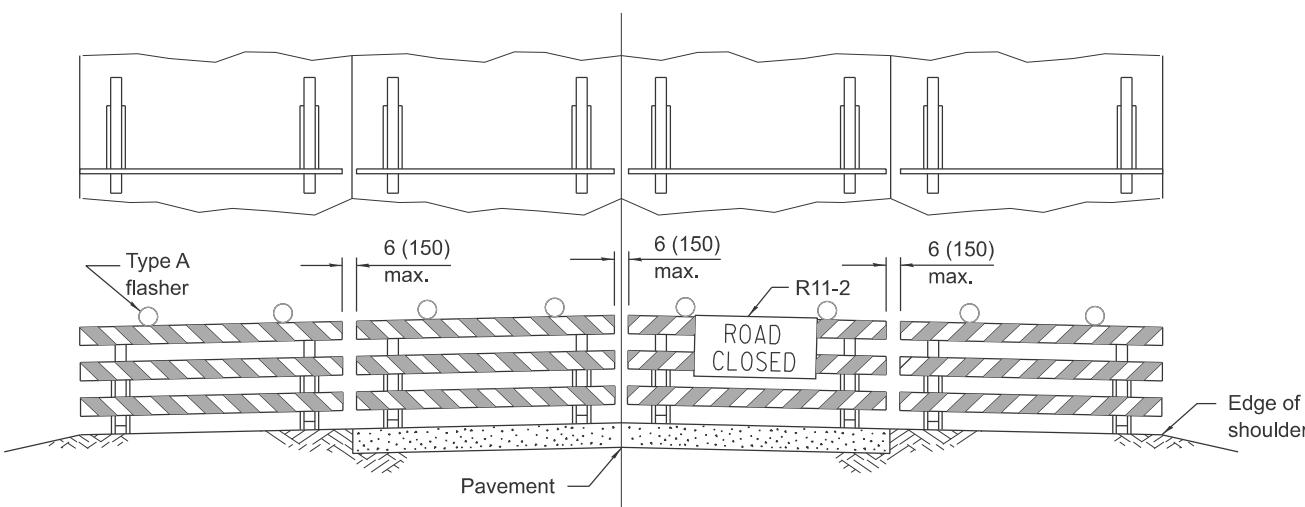


① This sign shall be omitted when median width is less than 10' (3 m)



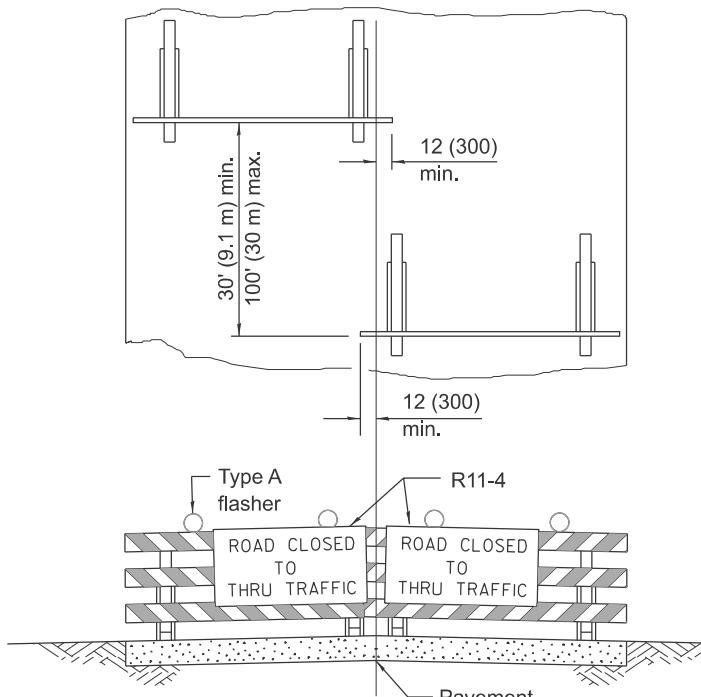
TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



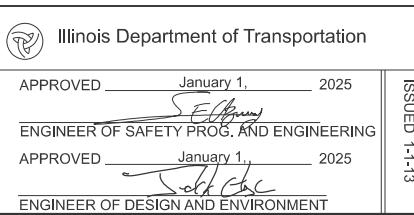
ROAD CLOSED TO ALL TRAFFIC

Reflectorized striping may be omitted on the back side of the barricades.



ROAD CLOSED TO THRU TRAFFIC

Reflectorized striping shall appear on both sides of the barricades.

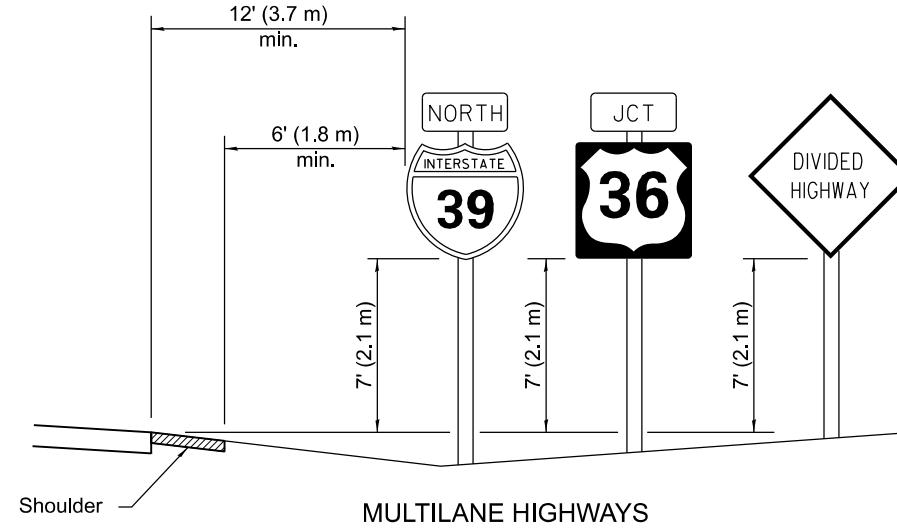


If a Type III barricade with an attached sign panel which meets NCHRP 350 or MASH is not available, the sign may be mounted on an NCHRP 350 or MASH temporary sign support directly in front of the barricade.

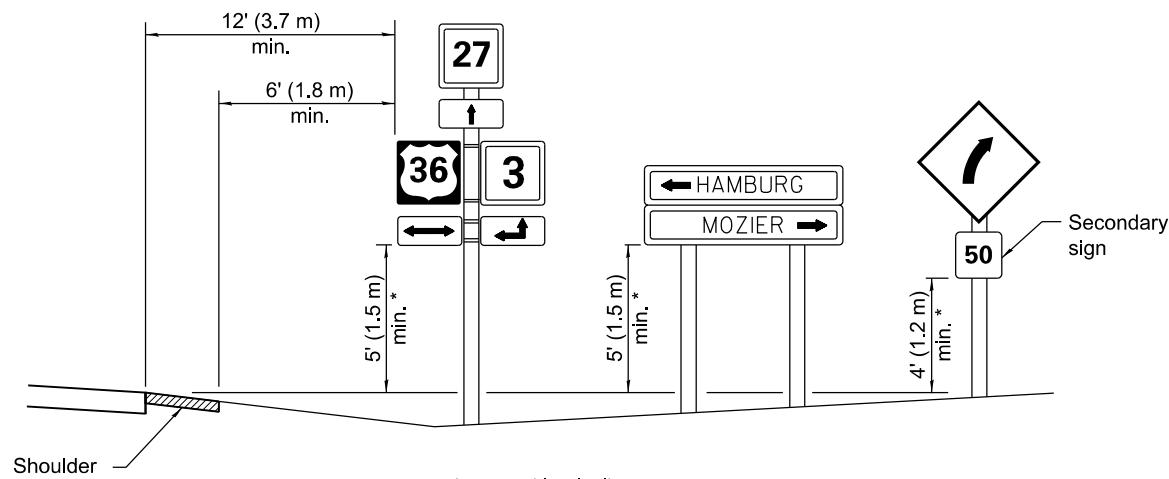
TRAFFIC CONTROL DEVICES

(Sheet 3 of 3)

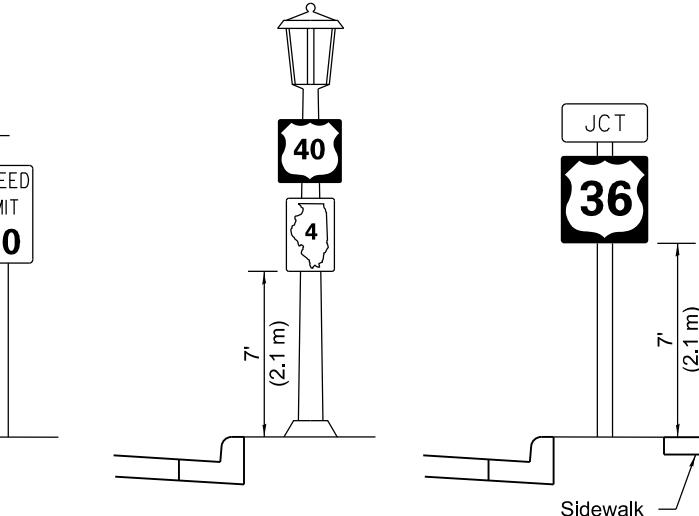
STANDARD 701901-10



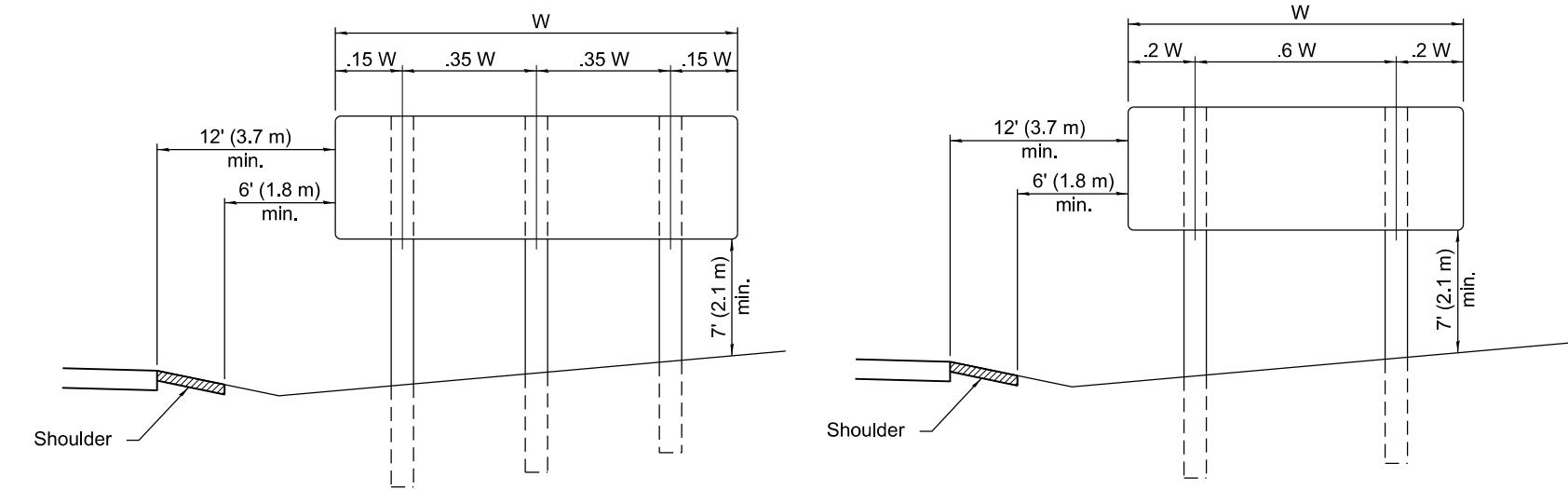
MULTILANE HIGHWAYS



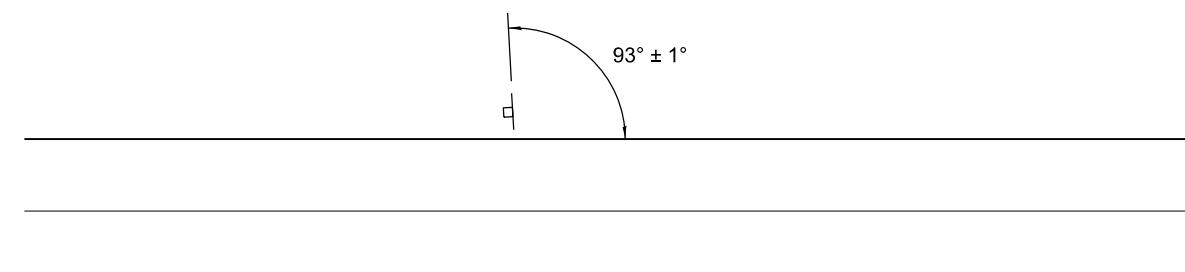
TWO LANE RURAL HIGHWAYS



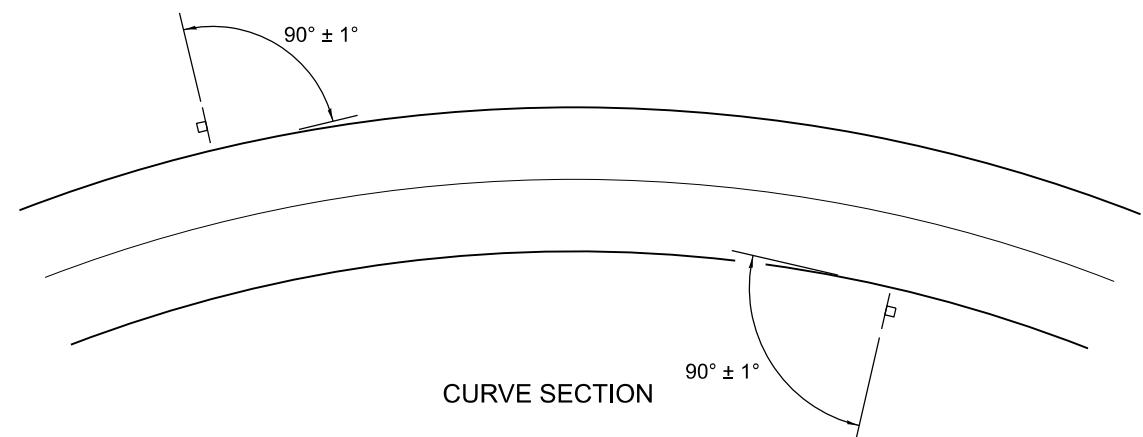
URBAN LOCATIONS



POST SPACING FOR NON-FREEWAY SIGN PANELS



TANGENT SECTION



CURVE SECTION

GROUND MOUNT SIGN POSITIONING

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

| DATE | REVISIONS |
|--------|--|
| 1-1-14 | Added shoulder and slopes. Changed sign distances from roadway and shoulder. |
| 1-1-12 | Revised sign elevation for multilane highways. Revised sign elevation and distance to curb for rural location. |
| | |

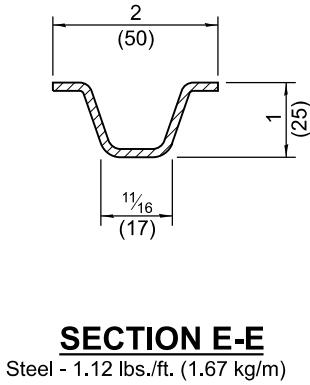
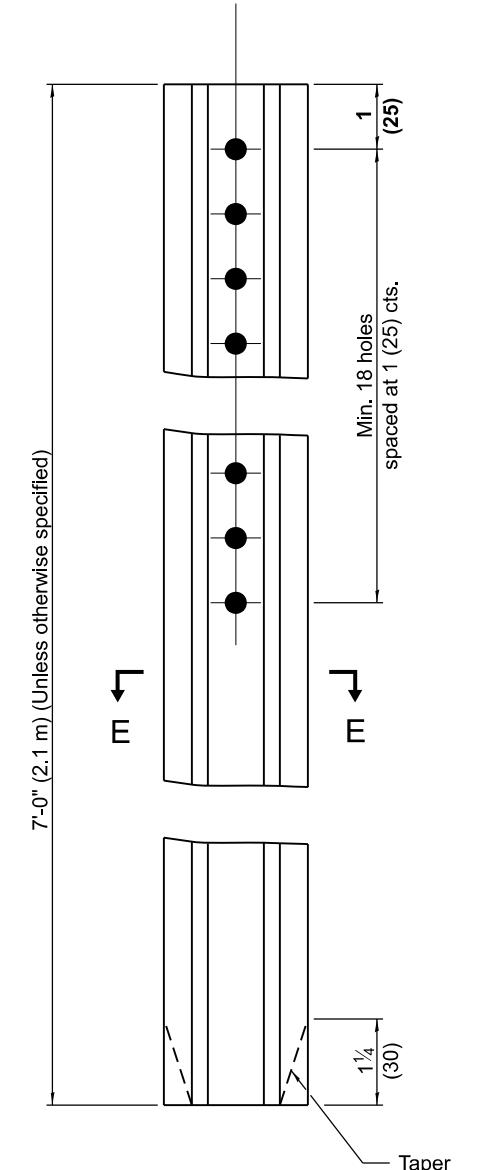
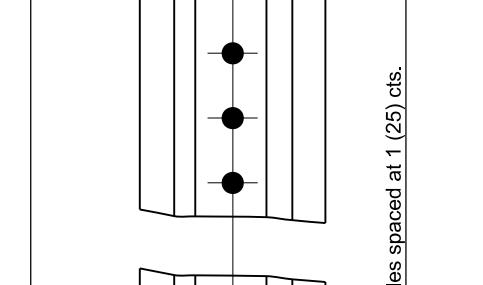
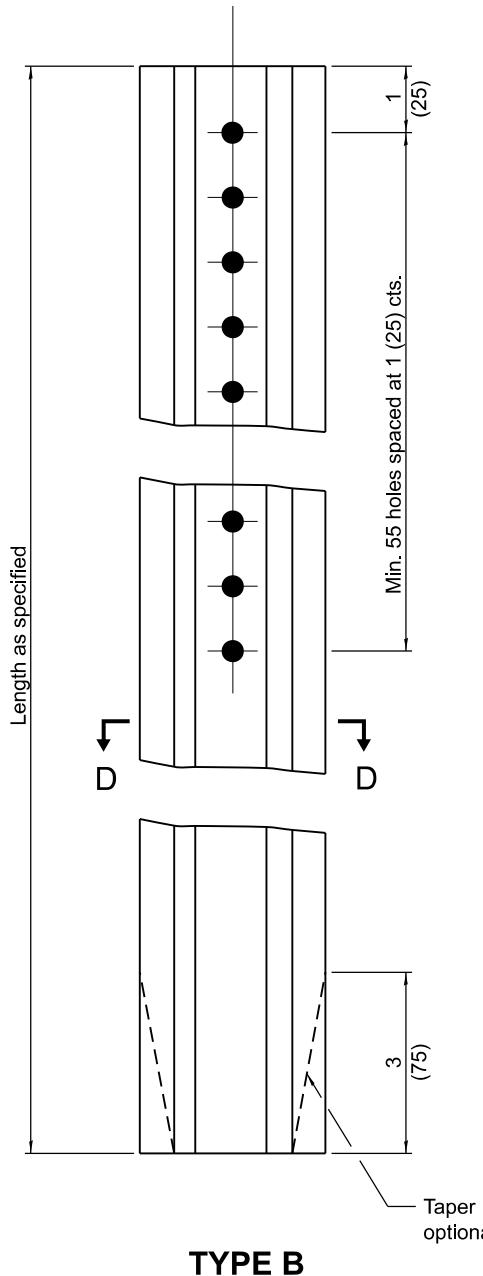
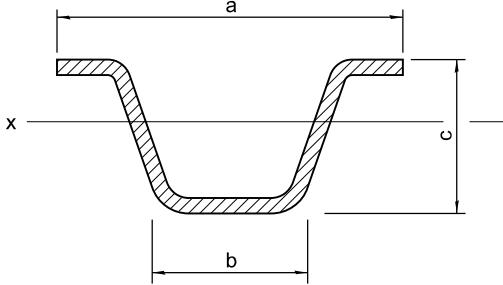
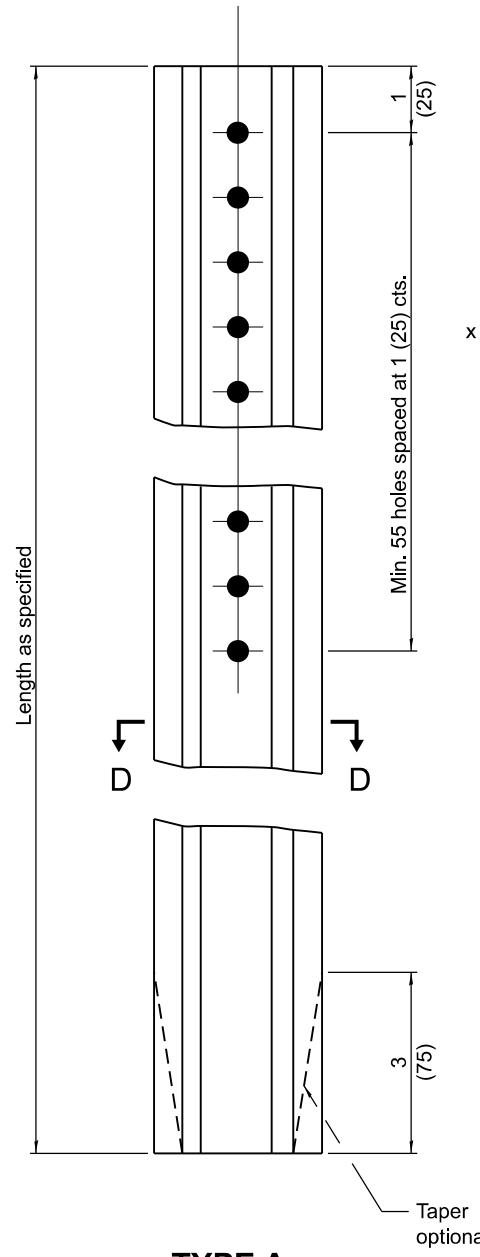
**SIGN PANEL
ERCTION DETAILS**

STANDARD 720006-04

| | |
|--|---------------------------------------|
| | Illinois Department of Transportation |
| APPROVED <i>Quinton Mann</i> January 1, 2014 | ISSUE 1/14 |
| ENGINEER OF OPERATIONS | |
| APPROVED <i>Quinton Mann</i> January 1, 2014 | |
| ENGINEER OF DESIGN AND ENVIRONMENT | |

TYPICAL INSTALLATIONS

Signs in any area shall be erected to a uniform height above the edge of the pavement.



GENERAL NOTES

Dimensions shown for cross sections are minimum.

All holes are $\frac{3}{8}$ (10).

Sx-x is the minimum section modulus about the x-x axis of the post as shown. For posts in which holes are punched or drilled for more than half their length, Sx-x shall be computed for the net section.

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

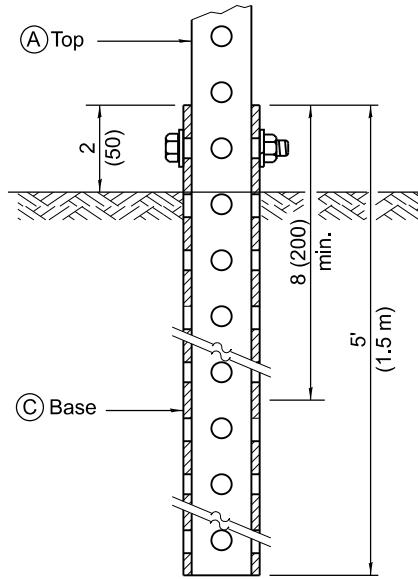
| | | a | b | c | Sx-x in. ³ (mm ³) | lbs./ft. (kg/m) |
|--------|----------|----------------|---------------|----------------|--|--------------------|
| TYPE A | Steel | 3 1/16 (78) | 1 1/4 (32) | 1 7/16 (37) | 0.223 (3,654) | 2.00 (2.98) |
| | Aluminum | 3 1/2 (89) | 1 5/8 (41) | 1 7/8 (48) | 0.435 (7,128) | 0.90 (1.34) |
| TYPE B | Steel | 3 3/16 (81) | 1 1/4 (32) | 1 1/2 (38) | 0.341 (5,588) | 3.00 (4.46) |
| | Aluminum | 4 5/8 (118) | 2 1/4 (57) | 2 3/8 (60) | 0.888 (14,552) | 1.30 (1.93) |

| | | |
|------------------------------------|---------------------------------------|-------------|
| | Illinois Department of Transportation | |
| APPROVED | January 1, 2009 | 1-1-09 DBSS |
| <i>Sam H. Schmid</i> | | |
| ENGINEER OF POLICY AND PROCEDURES | | |
| APPROVED | January 1, 2009 | |
| <i>Eric E. Koenig</i> | | |
| ENGINEER OF DESIGN AND ENVIRONMENT | | |

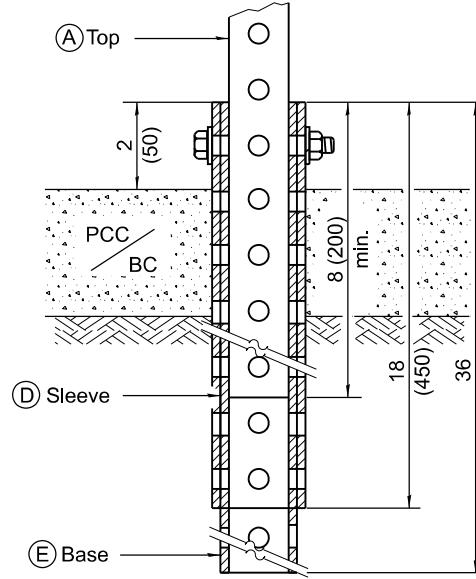
| DATE | REVISIONS |
|--------|-------------------------------------|
| 1-1-09 | Switched units to English (metric). |
| | |
| | |
| 1-1-97 | Renum. Standard 2350-4. |
| | |
| | |

**METAL POSTS FOR SIGNS,
MARKERS & DELINEATORS**

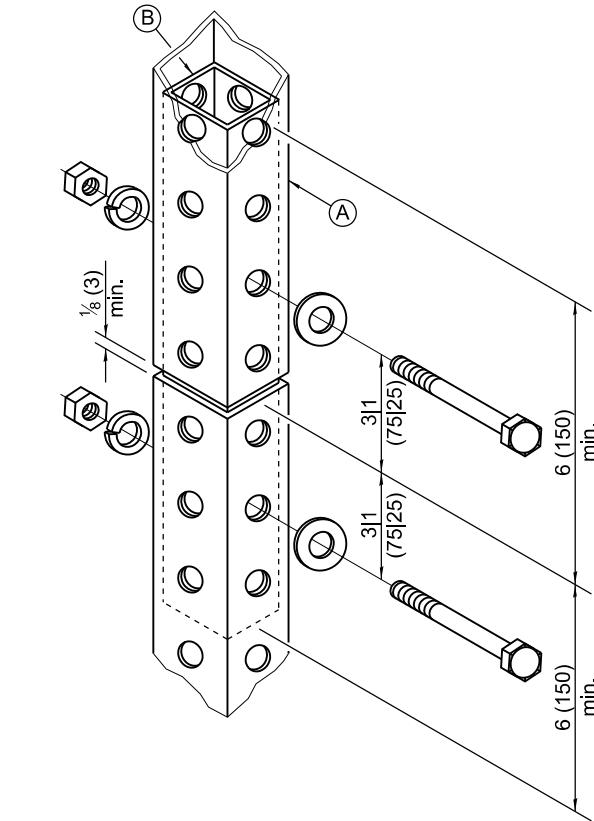
STANDARD 720011-01



GROUND MOUNT DETAIL



PAVEMENT MOUNT DETAIL



SPICE DETAIL

| | |
|-----|-------------------------------------|
| (A) | 2 x 2 x var. (51 x 51 var.) |
| (B) | 1 3/4 x 1 3/4 x 12 (44 x 44 x 300) |
| (C) | 2 1/4 x 2 1/4 x 60 (57 x 57 x 1500) |
| (D) | 2 1/2 x 2 1/2 x 18 (64 x 64 x 450) |
| (E) | 2 1/4 x 2 1/4 x 36 (57 x 57 x 900) |

GENERAL NOTES

All bolts $\frac{3}{8}$ (M10) hex head zinc or cadmium plated.

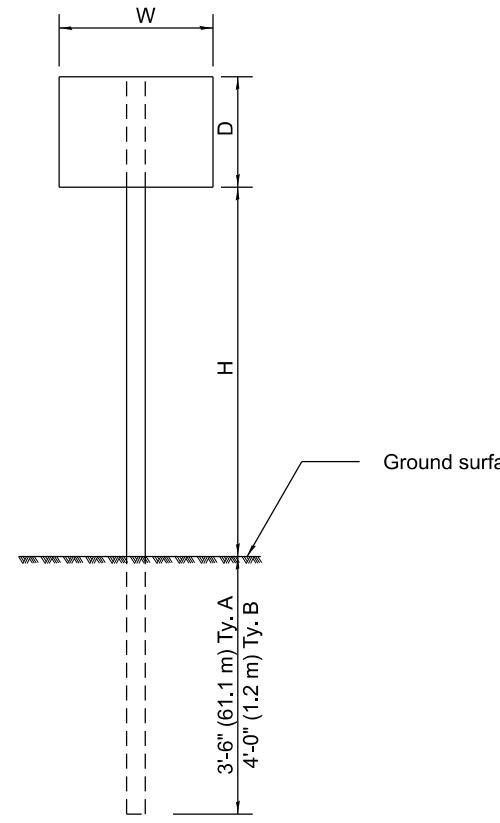
All dimensions are in inches (millimeters) unless otherwise shown.

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

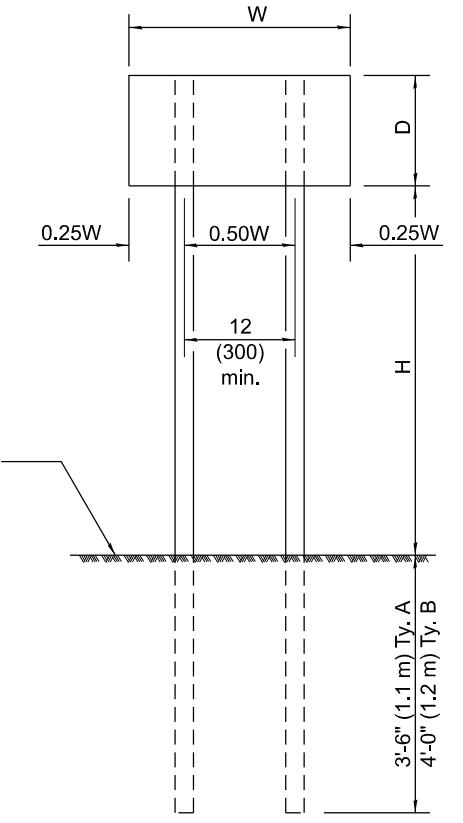
| DATE | REVISIONS |
|--------|--|
| 1-1-09 | Switched units to English (metric). |
| | |
| | |
| 1-1-07 | New Standard. Used to be part of Standard 72006. |
| | |

**TELESCOPING STEEL
SIGN SUPPORT**

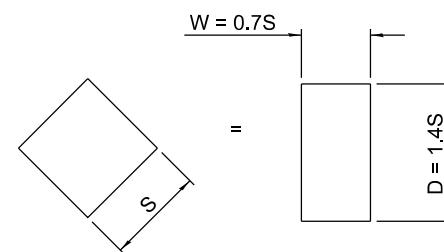
STANDARD 728001-01



ONE POST INSTALLATION

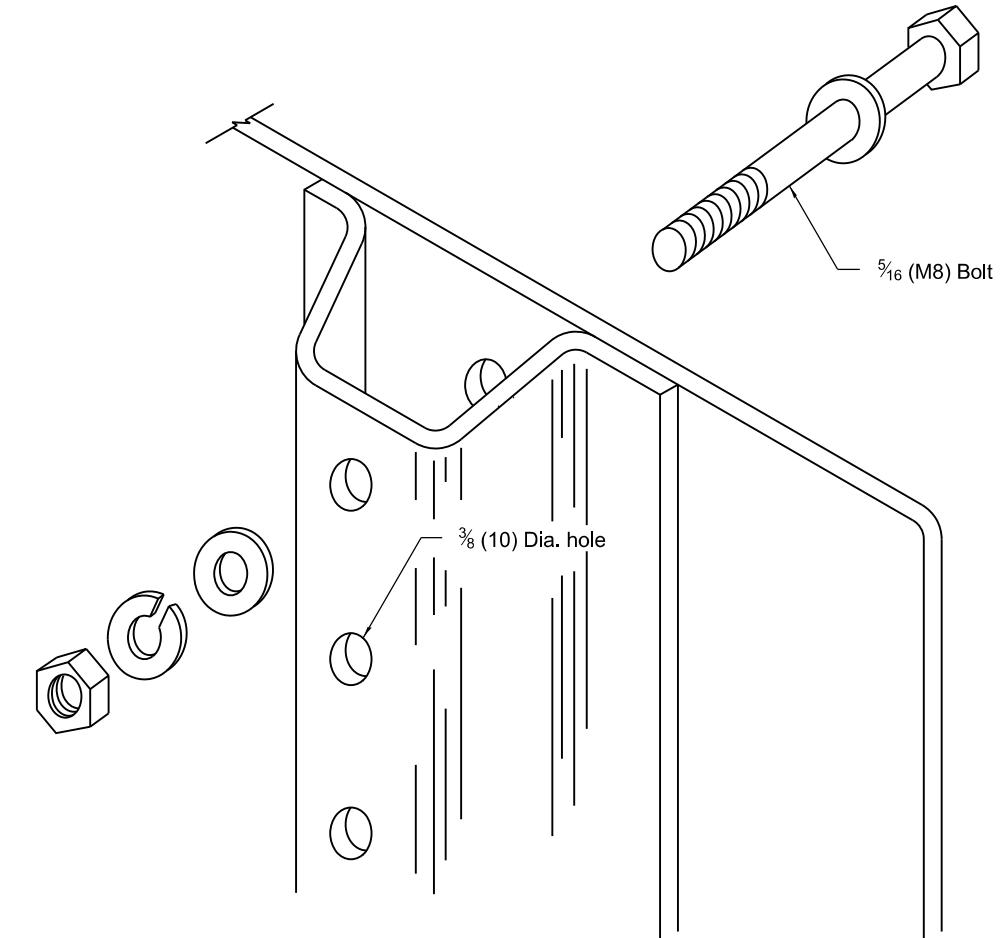


TWO POST INSTALLATION



For diamond shaped sign with side S as shown,
use required post size for a sign with $W = 0.7S$
and $D = 1.4S$.

| SIGN DEPTH (D) | H | NO. AND TYPE OF POST FOR SIGN WIDTH (W) | | | | |
|----------------------|---------------|--|-------------|-------------|-------------|-------------|
| | | 12 (300) | 18 (450) | 24 (600) | 30 (750) | 36 (900) |
| 18 (450) | 5'-0" (1.5 m) | A | A | A | A | A |
| | 5'-6" (1.7 m) | A | A | A | A | A |
| | 6'-0" (1.8 m) | A | A | A | A | B |
| | 6'-6" (2.0 m) | A | A | A | A | B |
| | 7'-0" (2.1 m) | A | A | A | A | B |
| | 7'-6" (2.3 m) | A | A | A | A | B |
| | 8'-0" (2.4 m) | A | A | A | A | B |
| | 8'-6" (2.6 m) | A | A | A | B | B |
| | 9'-0" (2.7 m) | A | A | A | B | B |
| 24 (600) | 5'-0" (1.5 m) | A | A | A | A | B |
| | 5'-6" (1.7 m) | A | A | A | A | B |
| | 6'-0" (1.8 m) | A | A | A | B | B |
| | 6'-6" (2.0 m) | A | A | A | B | B |
| | 7'-0" (2.1 m) | A | A | A | B | B |
| | 7'-6" (2.3 m) | A | A | A | B | B |
| | 8'-0" (2.4 m) | A | A | A | B | 2A |
| | 8'-6" (2.6 m) | A | A | B | B | 2A |
| | 9'-0" (2.7 m) | A | A | B | B | 2A |
| 30 (750) | 5'-0" (1.5 m) | A | A | A | B | B |
| | 5'-6" (1.7 m) | A | A | A | B | 2A |
| | 6'-0" (1.8 m) | A | A | A | B | 2A |
| | 6'-6" (2.0 m) | A | A | A | B | 2A |
| | 7'-0" (2.1 m) | A | A | B | B | 2A |
| | 7'-6" (2.3 m) | A | A | B | B | 2A |
| | 8'-0" (2.4 m) | A | A | B | B | 2A |
| | 8'-6" (2.6 m) | A | A | B | 2A | 2A |
| | 9'-0" (2.7 m) | A | A | B | 2A | 2A |
| 36 (900) | 5'-0" (1.5 m) | A | A | B | B | 2A |
| | 5'-6" (1.7 m) | A | A | B | B | 2A |
| | 6'-0" (1.8 m) | A | A | B | B | 2A |
| | 6'-6" (2.0 m) | A | A | B | 2A | 2A |
| | 7'-0" (2.1 m) | A | A | B | 2A | 2A |
| | 7'-6" (2.3 m) | A | A | B | 2A | 2A |
| | 8'-0" (2.4 m) | A | B | B | 2A | 2A |
| | 8'-6" (2.6 m) | A | B | B | 2A | 2B |
| | 9'-0" (2.7 m) | A | B | 2A | 2A | 2B |
| 4'-0" (1.2 m) | 5'-0" (1.5 m) | A | A | B | 2A | 2A |
| | 5'-6" (1.7 m) | A | B | B | 2A | 2A |
| | 6'-0" (1.8 m) | A | B | B | 2A | 2A |
| | 6'-6" (2.0 m) | A | B | 2A | 2A | 2B |
| | 7'-0" (2.1 m) | A | B | 2A | 2A | 2B |
| | 7'-6" (2.3 m) | A | B | 2A | 2B | 2B |
| | 8'-0" (2.4 m) | A | B | 2A | 2B | 2B |
| | 8'-6" (2.6 m) | B | B | 2B | 2B | 2B |
| | 9'-0" (2.7 m) | B | 2A | 2B | 2B | 2B |



DETAIL OF MOUNTING SIGN TO POST

NOTE: Minimum of 2 bolts per post required.

GENERAL NOTES

DESIGN: Current AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

LOADING: for 60 mph (95 km/h) wind velocity with 30% gust factor, normal to sign.

SOIL PRESSURE: Minimum allowable soil pressure 1.25 tsf (120 kPa).

See Standard 720011 for details of Types A and B posts.

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

| | |
|------------------------------------|---------------------------------------|
| | Illinois Department of Transportation |
| APPROVED | January 1, 2009 |
| | Signature of APPROVED engineer |
| ENGINEER OF POLICY AND PROCEDURES | |
| APPROVED | January 1, 2009 |
| | Signature of APPROVED engineer |
| ENGINEER OF DESIGN AND ENVIRONMENT | |

16-1-1 CLASSIS

| DATE | REVISIONS |
|--------|-------------------------------------|
| 1-1-09 | Switched units to English (metric). |
| | |
| | |
| 1-1-97 | Renum. Standard 2363-2. |
| | |
| | |

**APPLICATIONS OF TYPES
A & B METAL POSTS
(FOR SIGNS & MARKERS)**

STANDARD 729001-01