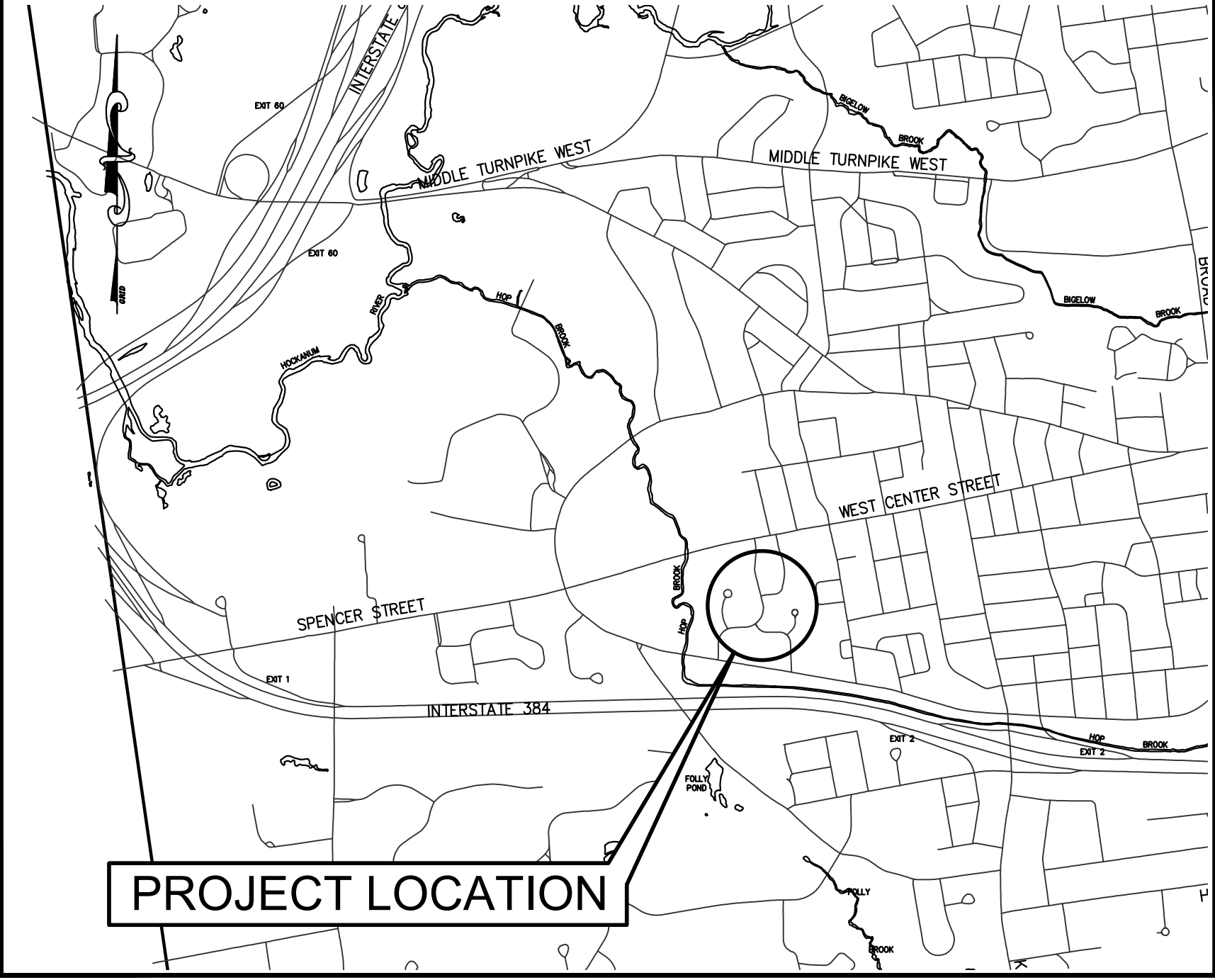


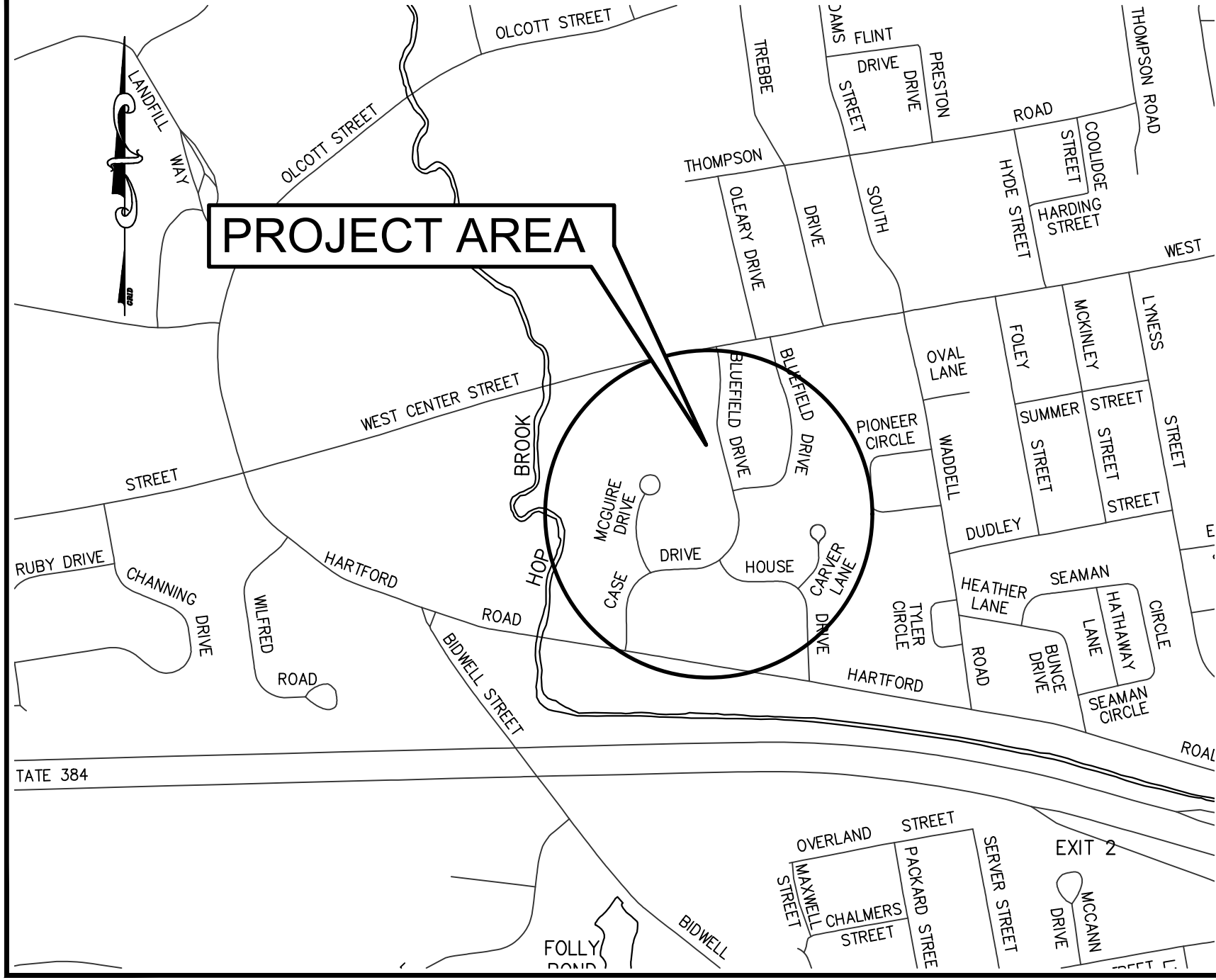
# TOWN OF MANCHESTER

## PUBLIC WORKS DEPARTMENT

### ENGINEERING DIVISION



LOCATION MAP  
1" = 1500'



SITE MAP  
1" = 600'

# ROAD RESURFACING

# MANCHESTER HOUSING AUTHORITY

JULY 2024

DESIGN STANDARD : TOWN OF MANCHESTER PUBLIC IMPROVEMENT STANDARDS, EFFECTIVE DATE OCTOBER 31, 2020, AS AMENDED

DATUMS : HORIZONTAL DATUM: TOWN OF MANCHESTER CONTROL NETWORK (NAD83 AS ESTABLISHED IN 1998)  
VERTICAL DATUM: TOWN OF MANCHESTER CONTROL NETWORK (NAVD88 USING GEOID 96)

STANDARD SPECIFICATIONS : SEE CONTRACT DOCUMENTS

DESIGN SCALES : PLAN: 1" = 30'  
OTHER SCALES AS NOTED

| LIST OF DRAWINGS |   |
|------------------|---|
| SHEET NO.        | DESCRIPTION                               |
| 1                | COVER SHEET                               |
| 2-4              | LAYOUT PLANS                              |
| 5-7              | DETAILS                                   |
|                  | DOT CONCRETE SIDEWALK RAMPS SHEET 1 OF 11 |
|                  | DOT CONCRETE SIDEWALK RAMPS SHEET 4 OF 11 |
|                  | DOT CONCRETE SIDEWALK RAMPS SHEET 5 OF 11 |
|                  | DOT CONCRETE SIDEWALK RAMPS SHEET 7 OF 11 |
|                  | DOT CONCRETE SIDEWALK RAMPS SHEET 9 OF 11 |
| TR.1210.08       | PAVEMENT MARKINGS FOR NON-FREEWAYS        |

DESIGNED BY:  
TOWN OF MANCHESTER  
ENGINEERING DIVISION

JEFF LAMALVA  
TOWN ENGINEER  
P.E. NO. 20967



TOWN OF MANCHESTER  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
494 MAIN STREET - P.O. BOX 191  
MANCHESTER, CT 06045-0191

LEGEND

|                           |                      |
|---------------------------|----------------------|
| --- WETLANDS BOUNDARY     | ☆ LIGHT POLE         |
| --- RETAINING WALL        | ⊗ CONIFEROUS TREE    |
| --- CURB WALL             | ⊗ DEODOROUS TREE     |
| --- STONE WALL            | ⊗ SANITARY MANHOLE   |
| --- STOCKADE FENCE        | ⊗ DRAINAGE MANHOLE   |
| --- WIRE FENCE            | ⊗ CATCH BASIN        |
| --- CHAIN LINK FENCE      | ⊗ CULVERT END        |
| --- PROPERTY LINE         | ⊗ HYDRANT            |
| --- RAILROAD TRACKS       | ⊗ CURB STOP          |
| --- SILT FENCE            | ⊗ WATER VALVE        |
| ⊗ CONCRETE MONUMENT       | ⊗ BUTTERFLY VALVE    |
| ⊗ GRANITE MONUMENT        | ⊗ BLOW OFF           |
| ⊗ IRON PIPE               | ⊗ SIGN               |
| ⊗ IRON ROD                | ⊗ DOUBLE POST SIGN   |
| ⊗ CONTROL POINT           | ⊗ MAIL BOX           |
| ⊗ DRILL HOLE              | ⊗ BOLLARD            |
| ⊗ UTILITY POLE            | ⊗ CONTROLLER CABINET |
| ⊗ UTILITY POLE WITH LIGHT | ⊗ GAS GATE           |
| ⊗ ELECTRIC BOX            | ⊗ TELEPHONE BOX      |
| ⊗ WETLAND FLAG            | ⊗ CATV TUBE          |

PROJECT NUMBER  
**2024075**

FILENAME  
**2024075-PLAN.DWG**

| NO. | DATE     | FILE        |
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| -   | 07/09/24 | FOR BIDDING |
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CHECKED BY: JL  
RELEASED BY: TB

DRAWING SCALE  
HORIZONTAL: 1" = 30' VERTICAL: ---  
OR AS NOTED  
30 15 0 30  
GRAPHIC SCALE

DATUM  
HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION  
**BLUEFIELD DR. CASE DR.  
CARVER LN. HOUSE DR.  
MCQUIRE LN.**

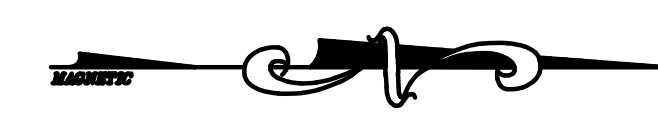
PROJECT TITLE  
**ROAD RESURFACING  
MANCHESTER HOUSING  
AUTHORITY**

SHEET TITLE  
**PLAN**

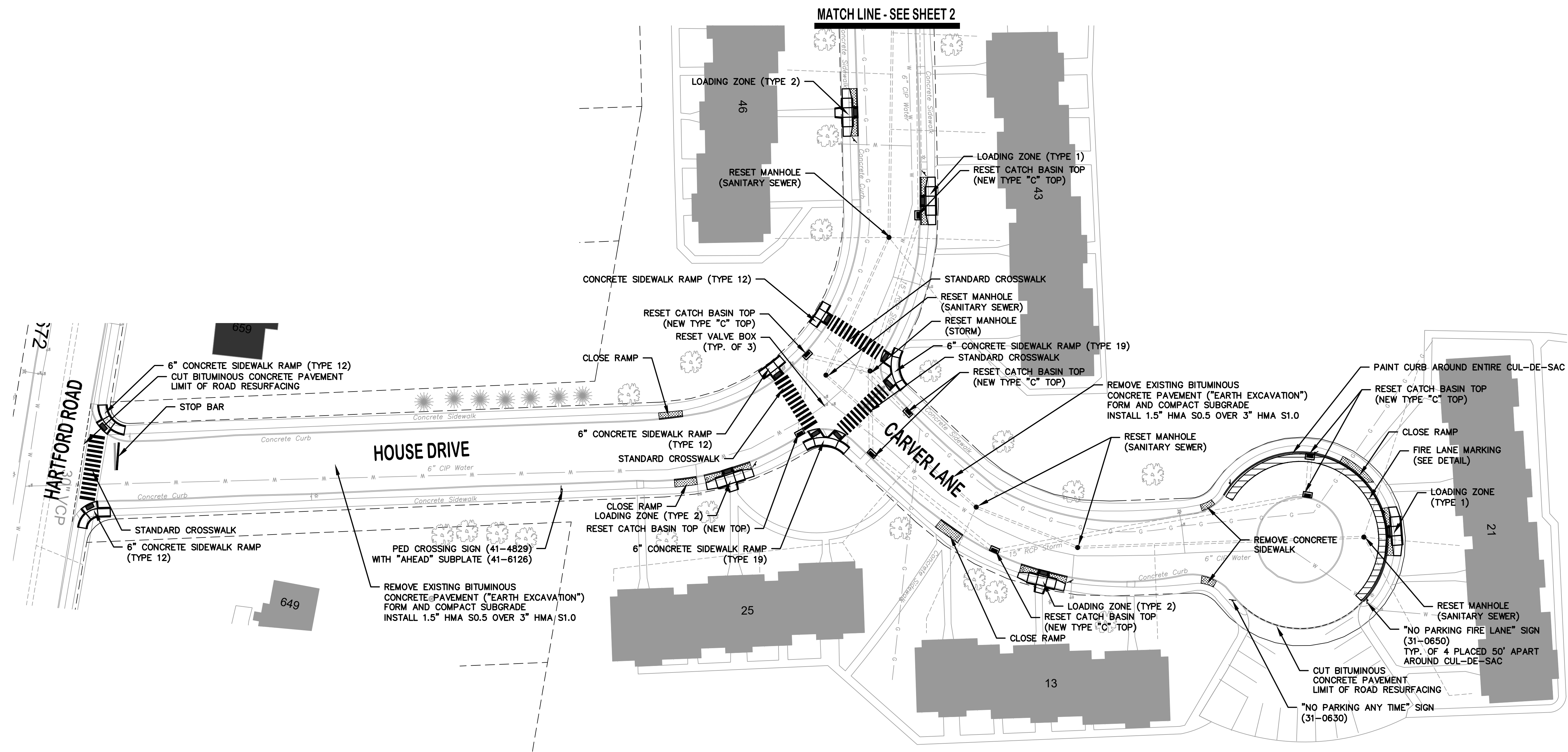
SHEET NUMBER  
**2 of 7**







TOWN OF MANCHESTER  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
494 MAIN STREET - P.O. BOX 191  
MANCHESTER, CT 06045-0191



LEGEND

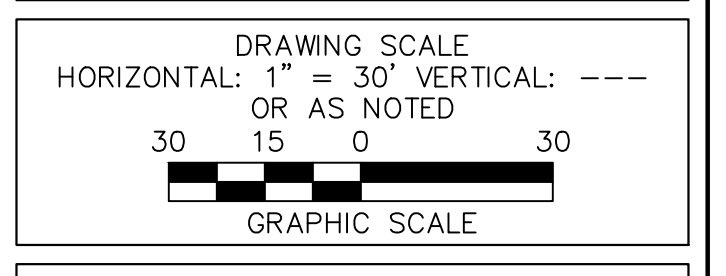
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|-----|-------------------------|---|--------------------|
| --- | WETLANDS BOUNDARY       | ☆ | LIGHT POLE         |
| --- | RETAINING WALL          | ⊗ | CONIFEROUS TREE    |
| --- | QUICK WALL              | ⊗ | DECIDUOUS TREE     |
| --- | STONE WALL              | ⊗ | SANITARY MANHOLE   |
| --- | STOCKADE FENCE          | ⊗ | DRAINAGE MANHOLE   |
| --- | WIRE FENCE              | ⊗ | CATCH BASIN        |
| --- | CHAIN LINK FENCE        | ⊗ | CULVERT END        |
| --- | PROPERTY LINE           | ⊗ | HYDRANT            |
| --- | RAILROAD TRACKS         | ⊗ | CURB STOP          |
| --- | SILT FENCE              | ⊗ | WATER VALVE        |
| --- | CONCRETE MONUMENT       | ⊗ | BUTTERFLY VALVE    |
| --- | GRANITE MONUMENT        | ⊗ | BLOW OFF           |
| --- | IRON PIPE               | ⊗ | SIGN               |
| --- | IRON ROD                | ⊗ | DOUBLE POST SIGN   |
| --- | CONTROL POINT           | ⊗ | MAIL BOX           |
| --- | DRILL HOLE              | ⊗ | BOLLARD            |
| --- | UTILITY POLE            | ⊗ | CONTROLLER CABINET |
| --- | UTILITY POLE WITH LIGHT | ⊗ | GAS GATE           |
| --- | TRAFFIC SPAN POLE       | ⊗ | TELEPHONE BOX      |
| --- | ELECTRIC BOX            | ⊗ | WETLAND FLAG       |
| --- | WETLAND FLAG            | ⊗ | CATV TUBE          |

PROJECT NUMBER  
2024075

FILENAME  
2024075-PLAN.DWG

| NO. | DATE     | FILE        |
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CHECKED BY: JL  
RELEASED BY: TB



DATUM  
HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION  
BLUEFIELD DR. CASE DR.  
CARVER LN. HOUSE DR.  
MCQUIRE LN.

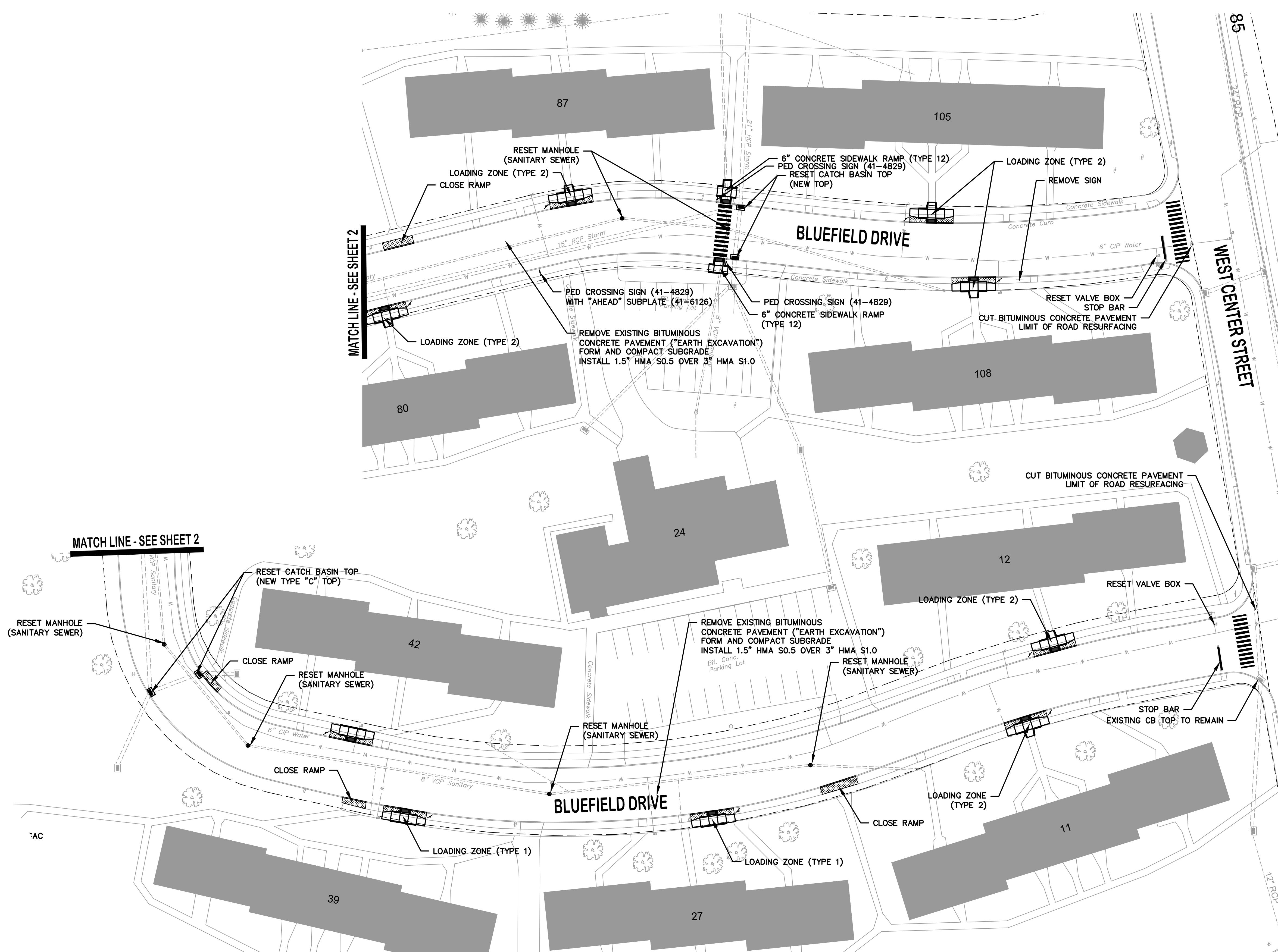
PROJECT TITLE  
ROAD RESURFACING  
MANCHESTER HOUSING  
AUTHORITY

SHEET TITLE  
PLAN

SHEET NUMBER  
3 of 7



TOWN OF MANCHESTER  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
494 MAIN STREET - P.O. BOX 191  
MANCHESTER, CT 06045-0191



**LEGEND**

|       |                         |   |                    |
|-------|-------------------------|---|--------------------|
| - - - | WETLANDS BOUNDARY       | ☆ | LIGHT POLE         |
| - - - | RETAINING WALL          | ⊗ | CONIFEROUS TREE    |
| ⊘     | STONE WALL              | ⊗ | DECIDUOUS TREE     |
| ⊘     | STOCKADE FENCE          | ⊗ | SANITARY MANHOLE   |
| ⊘     | WIRE FENCE              | ⊗ | DRAINAGE MANHOLE   |
| ⊘     | CHAIN LINK FENCE        | ⊗ | CATCH BASIN        |
| - - - | PROPERTY LINE           | ⊗ | CULVERT END        |
| - - - | RAILROAD TRACKS         | ⊗ | HYDRANT            |
| - - - | SILT FENCE              | ⊗ | CURB STOP          |
| ⊗     | CONCRETE MONUMENT       | ⊗ | WATER VALVE        |
| ⊗     | GRANITE MONUMENT        | ⊗ | BUTTERFLY VALVE    |
| ⊗     | IRON PIPE               | ⊗ | BLOW OFF           |
| ⊗     | IRON ROD                | ⊗ | SIGN               |
| ⊗     | CONTROL POINT           | ⊗ | DOUBLE POST SIGN   |
| ⊗     | DRILL HOLE              | ⊗ | MAIL BOX           |
| ⊗     | UTILITY POLE            | ⊗ | BOLLARD            |
| ⊗     | UTILITY POLE WITH LIGHT | ⊗ | CONTROLLER CABINET |
| ⊗     | TRAFFIC SPAN POLE       | ⊗ | GAS GATE           |
| ⊗     | ELECTRIC BOX            | ⊗ | TELEPHONE BOX      |
| ⊗     | WETLAND FLAG            | ⊗ | CATV TUBE          |

PROJECT NUMBER  
**2024075**

FILENAME  
**2024075-PLAN.DWG**

| NO. | DATE     | FILE        |
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CHECKED BY: JL  
RELEASED BY: TB

DRAWING SCALE  
HORIZONTAL: 1" = 30'  
VERTICAL: ---  
OR AS NOTED  
GRAPHIC SCALE

DATUM  
HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION  
**BLUEFIELD DR. CASE DR.  
CARVER LN. HOUSE DR.  
MCQUIRE LN.**

PROJECT TITLE  
**ROAD RESURFACING  
MANCHESTER HOUSING  
AUTHORITY**

SHEET TITLE  
**PLAN**

SHEET NUMBER  
**4 of 7**





TOWN OF MANCHESTER  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
494 MAIN STREET - P.O. BOX 191  
MANCHESTER, CT 06045-0191

LEGEND

|                           |                      |
|---------------------------|----------------------|
| — WETLAND BOUNDARY        | ☆ LIGHT POLE         |
| — RETAINING WALL          | ⊗ CONIFEROUS TREE    |
| — STONE WALL              | ⊗ DEODOROUS TREE     |
| — STOCKADE FENCE          | ⊗ SANITARY MANHOLE   |
| — WIRE FENCE              | ⊗ DRAINAGE MANHOLE   |
| — CHAIN LINK FENCE        | ⊗ CATCH BASIN        |
| — PROPERTY LINE           | ⊗ CULVERT END        |
| — RAILROAD TRACKS         | ⊗ HYDRANT            |
| — SILT FENCE              | ⊗ CURB STOP          |
| ⊗ CONCRETE MONUMENT       | ⊗ WATER VALVE        |
| ⊗ GRANITE MONUMENT        | ⊗ BUTTERFLY VALVE    |
| ⊗ IRON PIPE               | ⊗ BLOW OFF           |
| ⊗ IRON ROD                | ⊗ SIGN               |
| ⊗ CONTROL POINT           | ⊗ DOUBLE POST SIGN   |
| ⊗ DRILL HOLE              | ⊗ MAIL BOX           |
| ⊗ UTILITY POLE            | ⊗ BOLLARD            |
| ⊗ UTILITY POLE WITH LIGHT | ⊗ CONTROLLER CABINET |
| ⊗ TRAFFIC SPAN POLE       | ⊗ GAS GATE           |
| ⊗ ELECTRIC BOX            | ⊗ TELEPHONE BOX      |
| ⊗ WETLAND FLAG            | ⊗ CATV TUBE          |

PROJECT NUMBER  
**2024075**

FILENAME  
**2024075-PLAN.DWG**

| NO. | DATE     | FILE        |
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CHECKED BY: JL  
RELEASED BY: TB

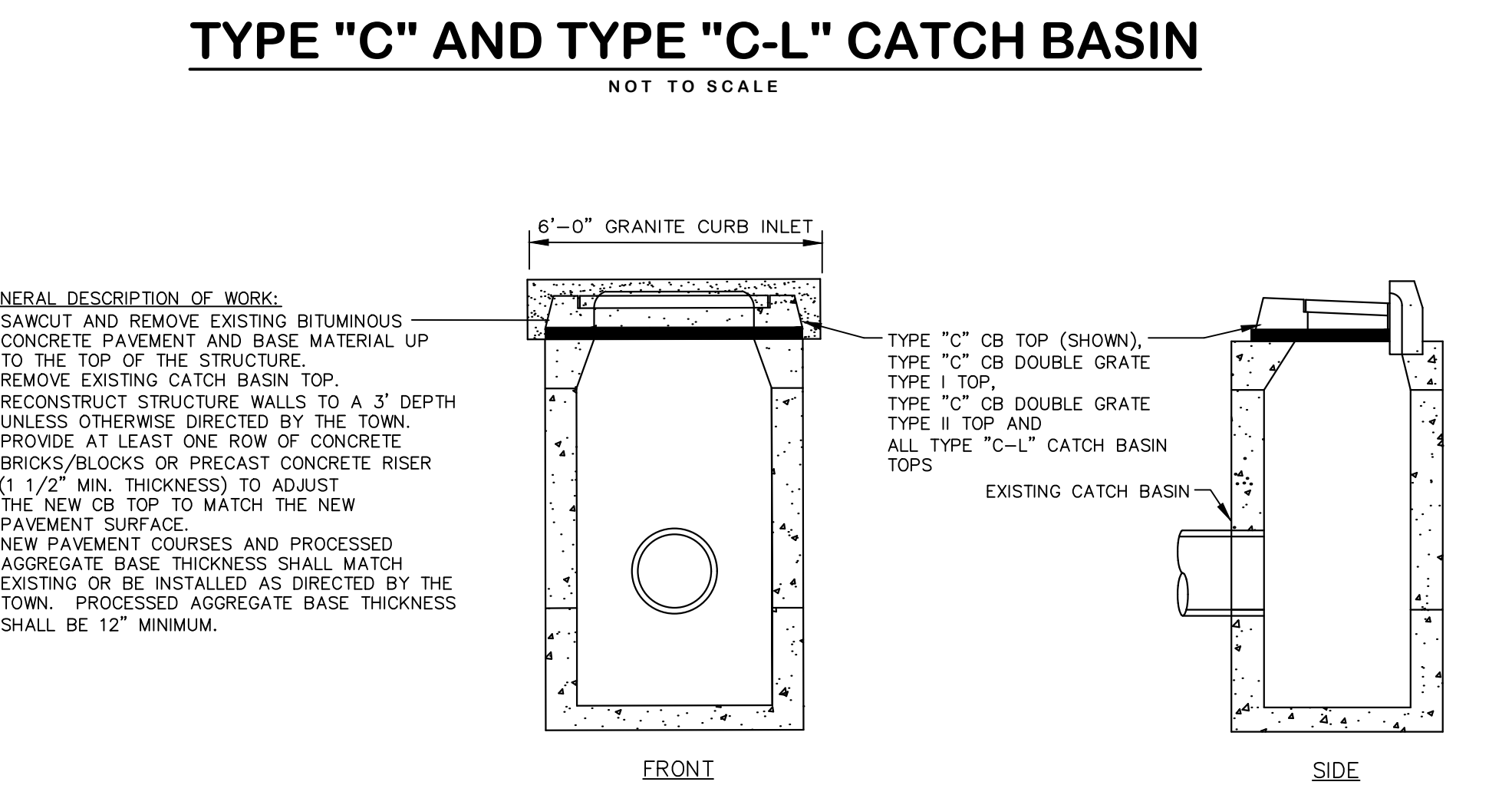
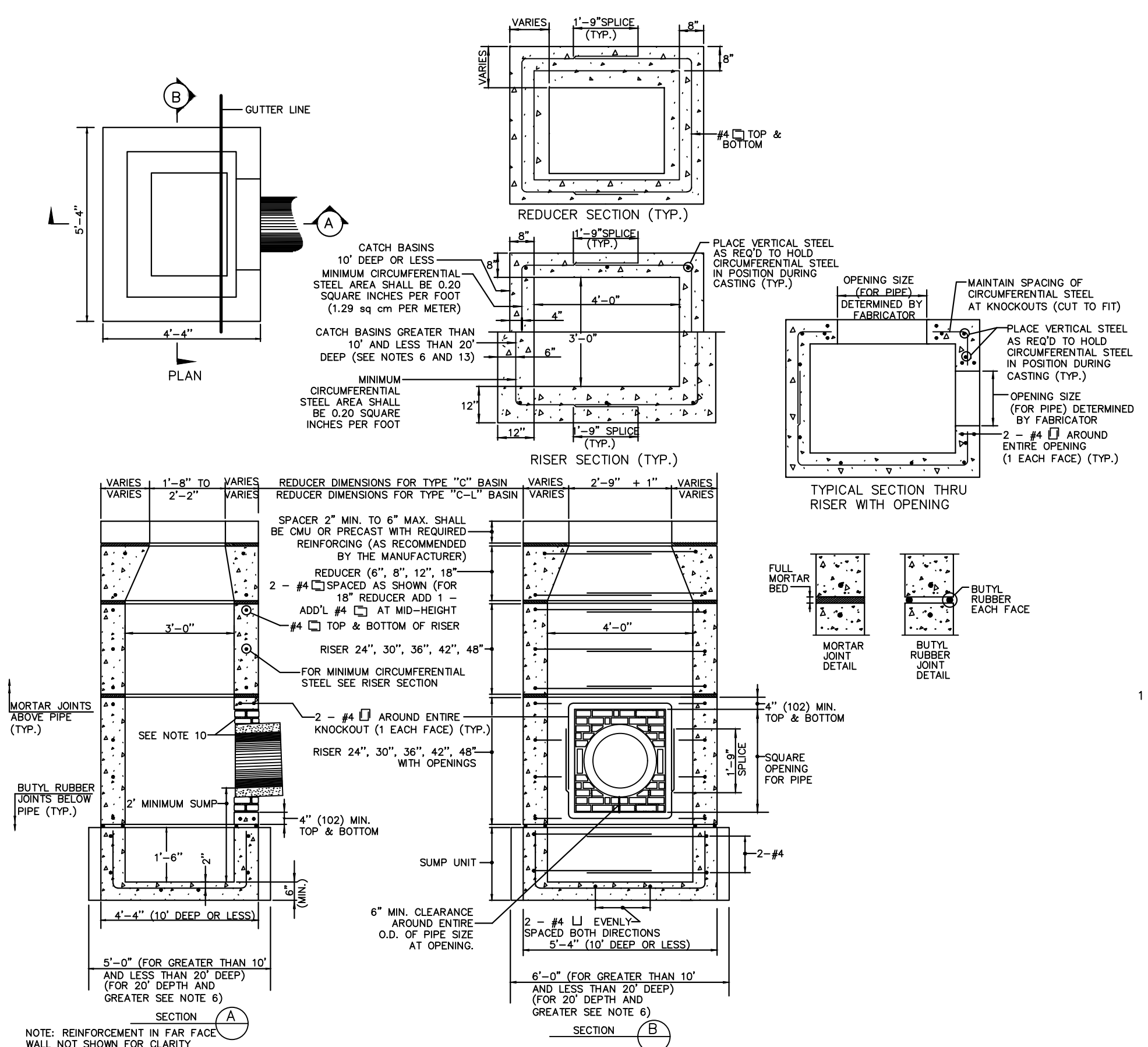
DATUM  
HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION  
**BLUEFIELD DR. CASE DR.  
CARVER LN. HOUSE DR.  
MCQUIRE LN.**

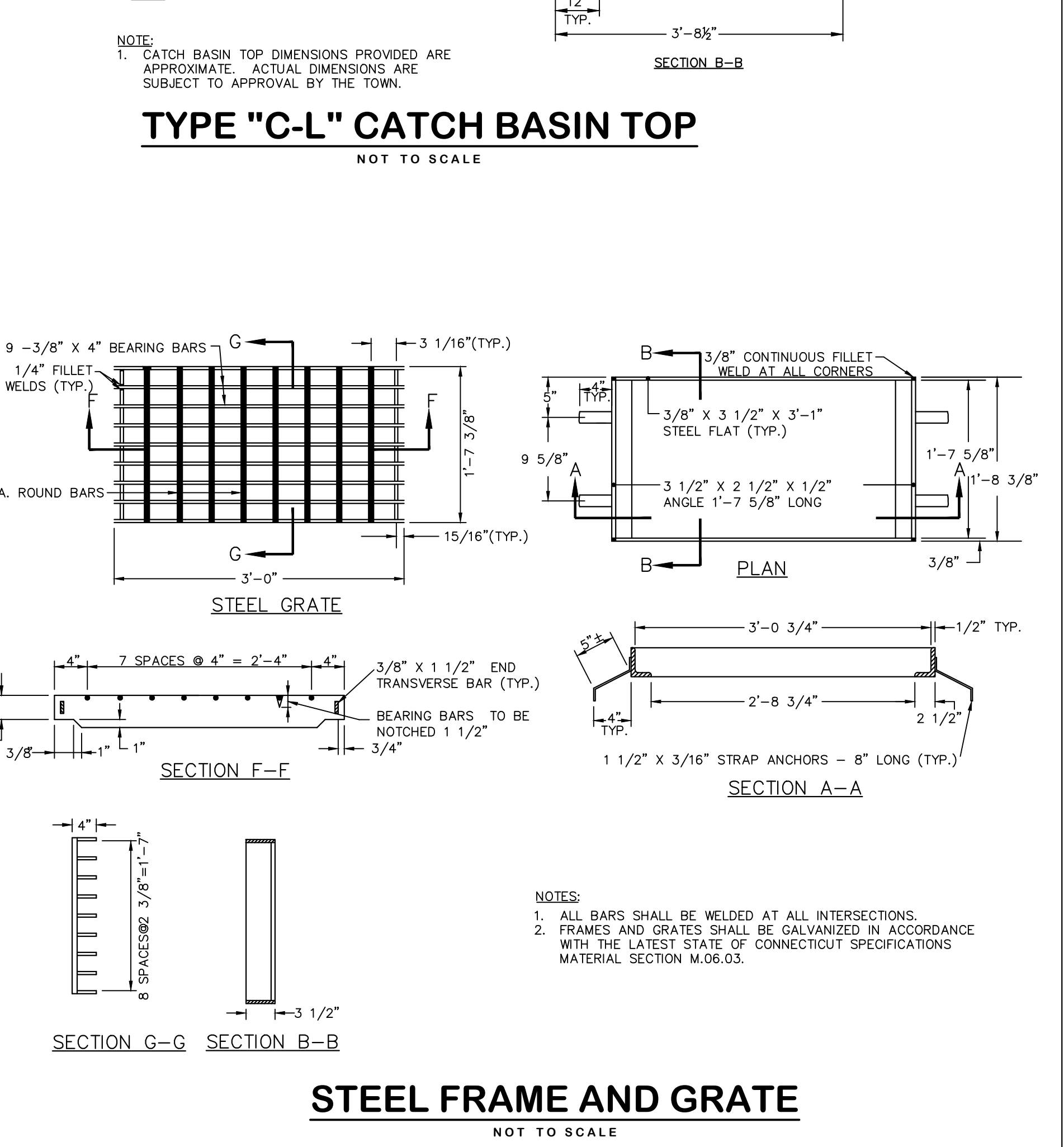
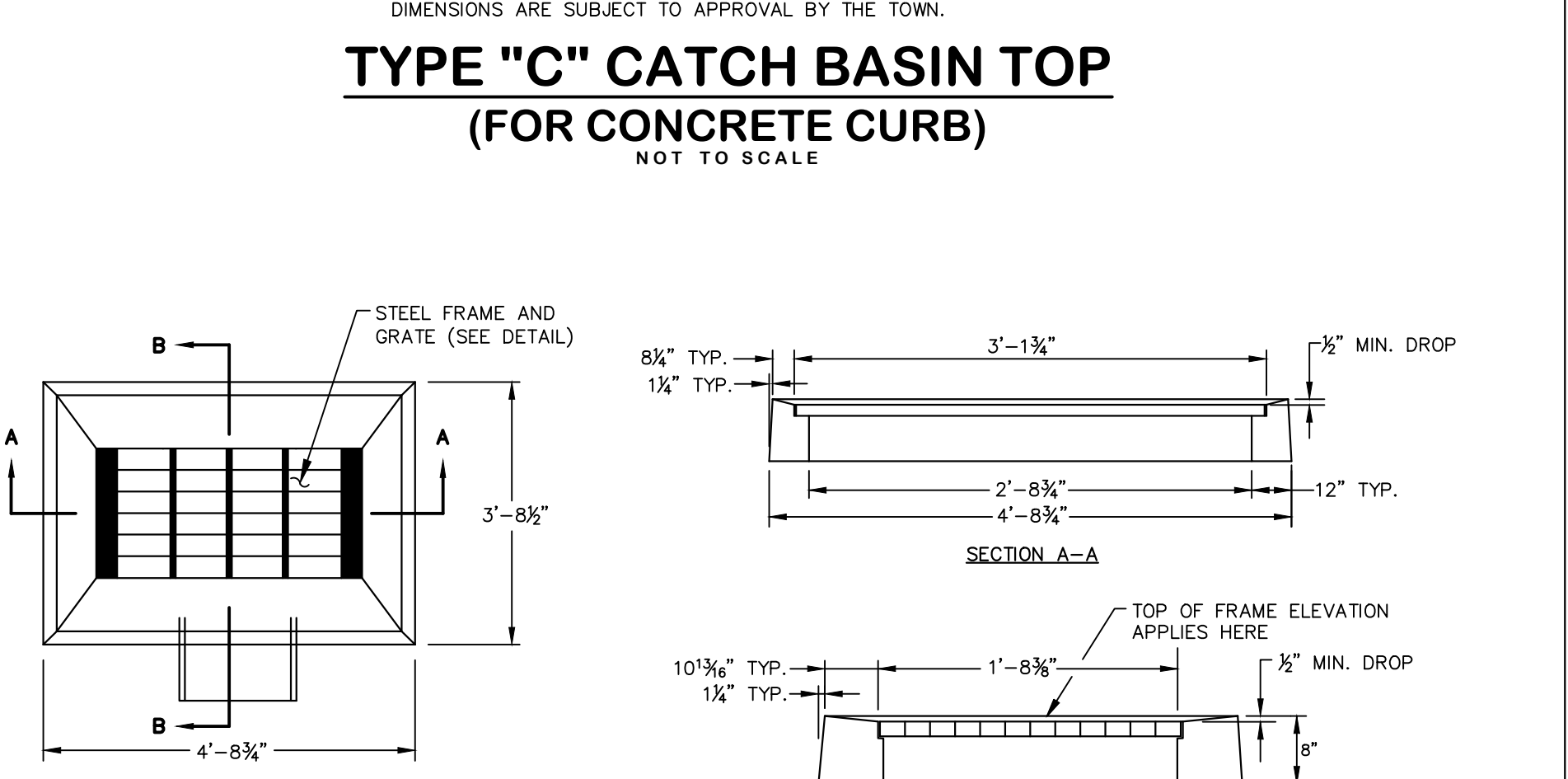
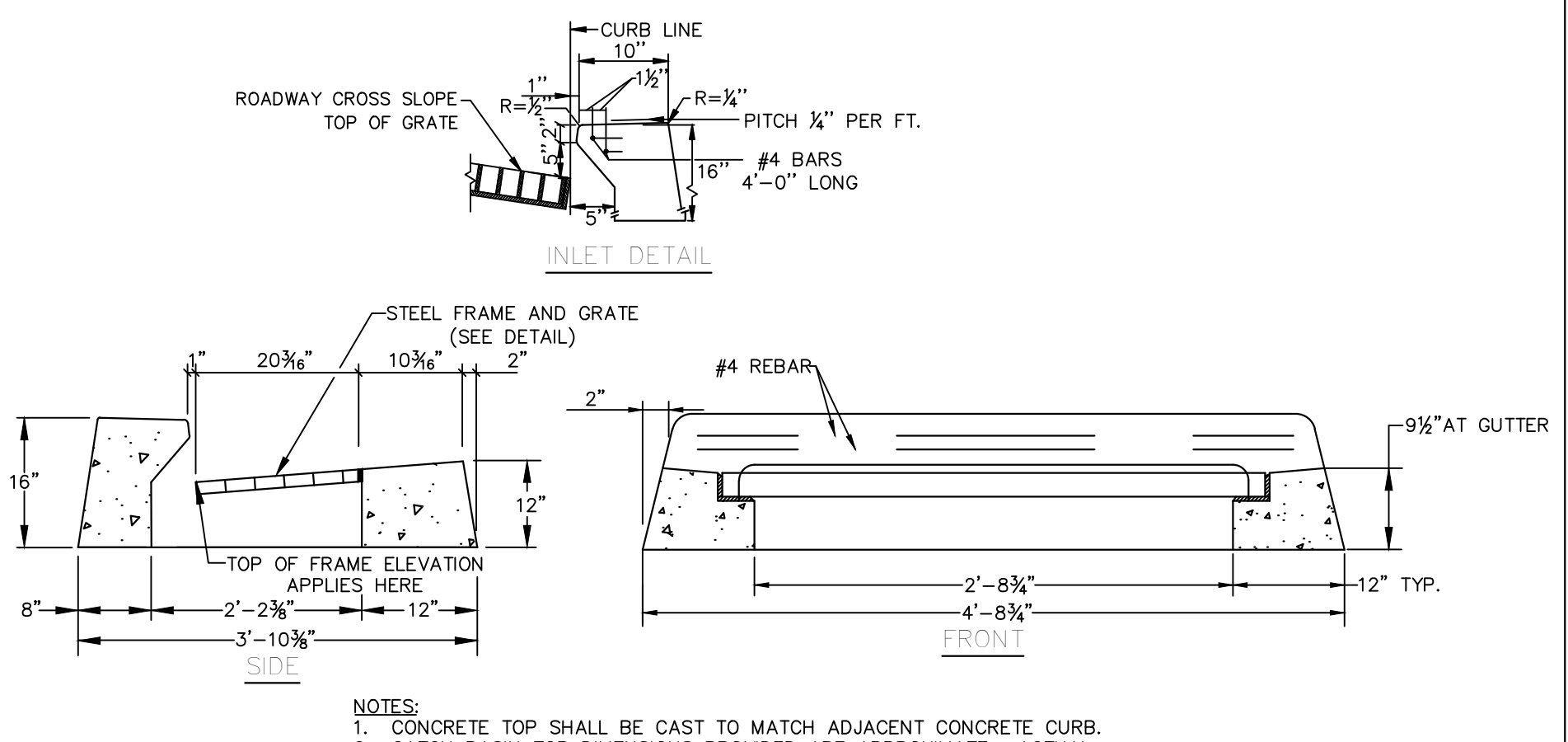
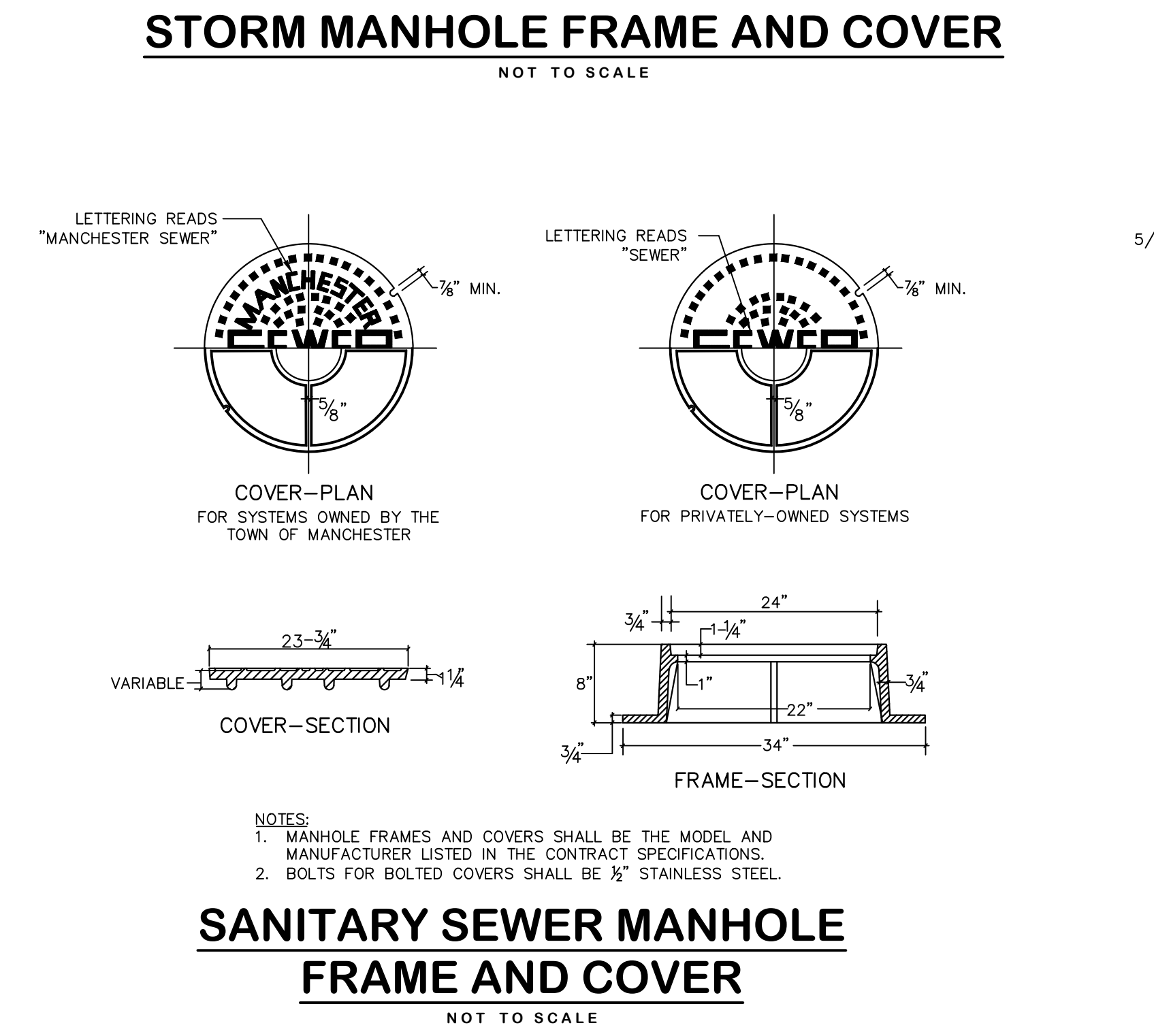
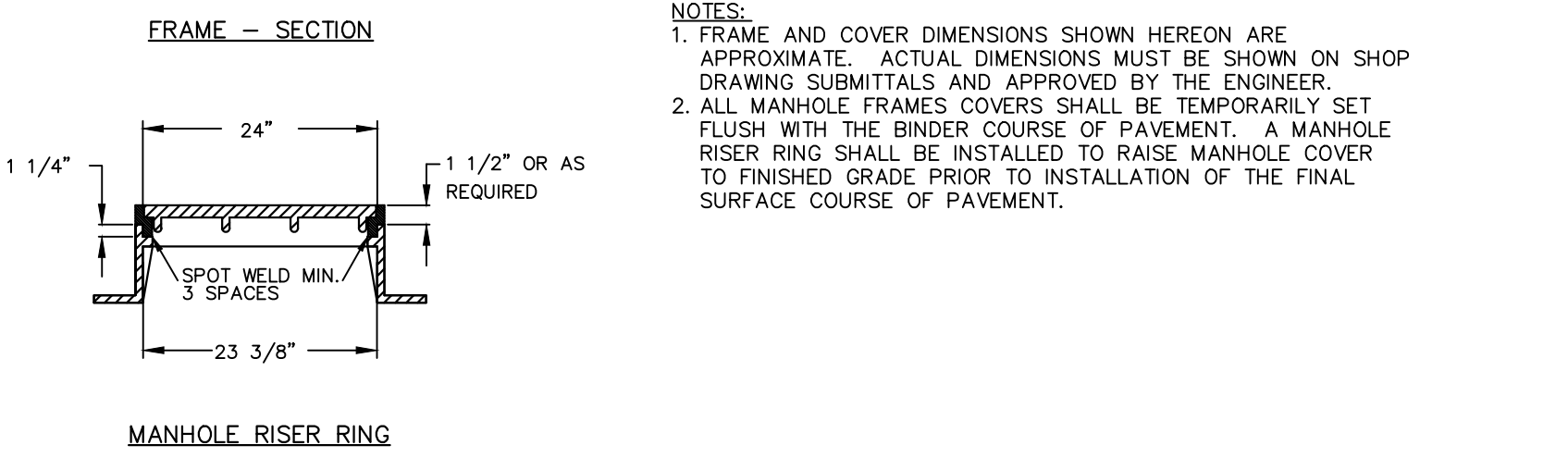
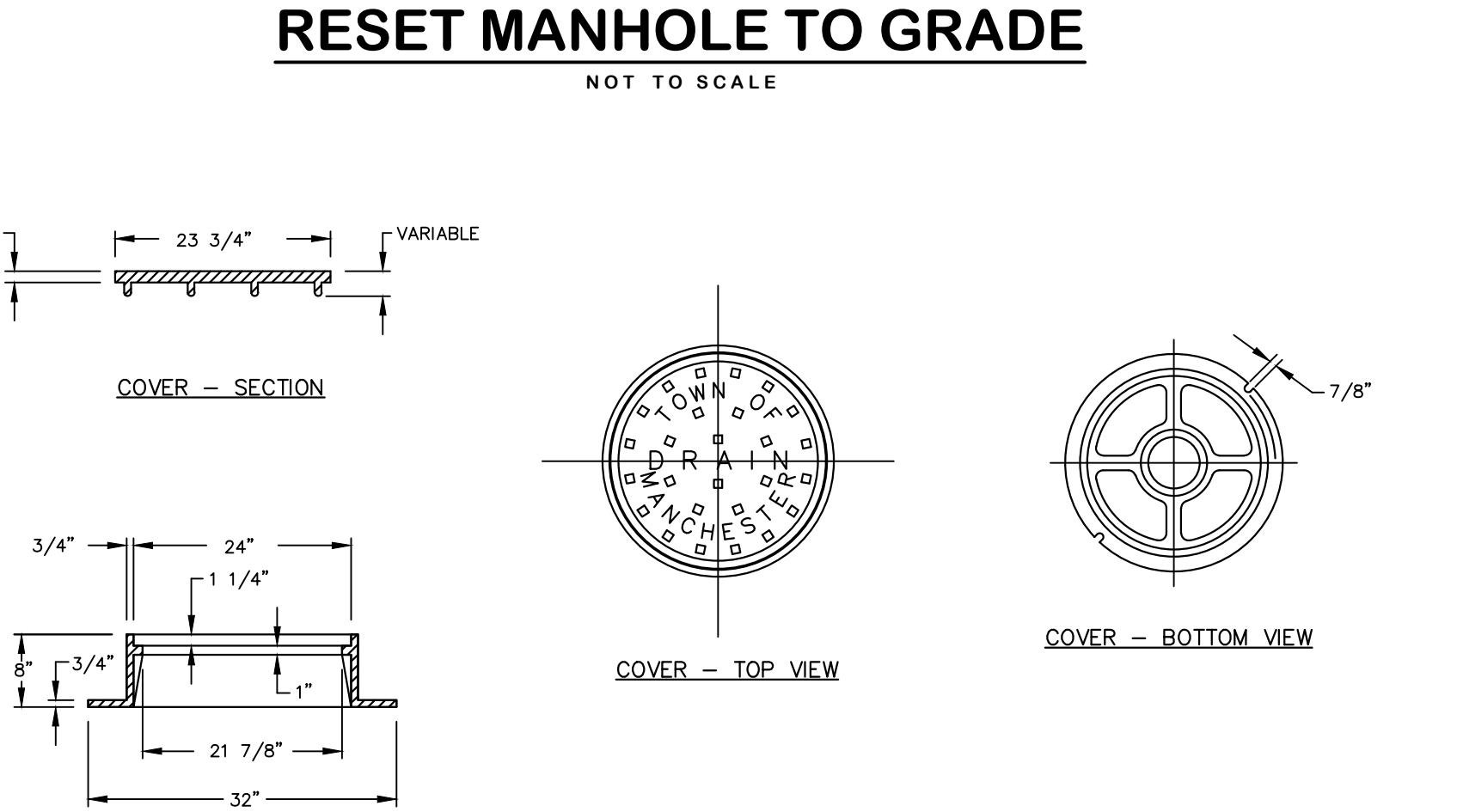
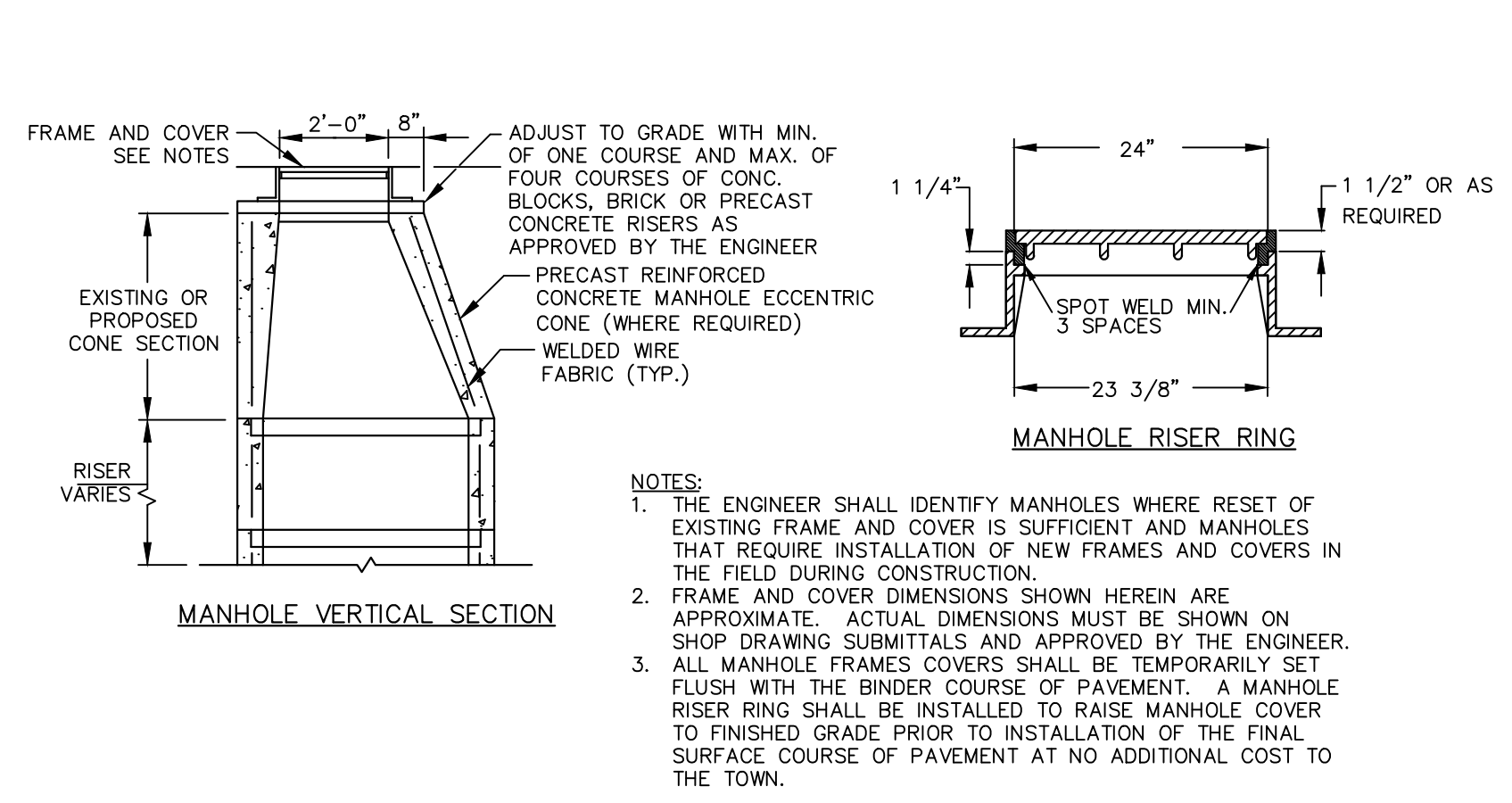
PROJECT TITLE  
**ROAD RESURFACING  
MANCHESTER HOUSING  
AUTHORITY**

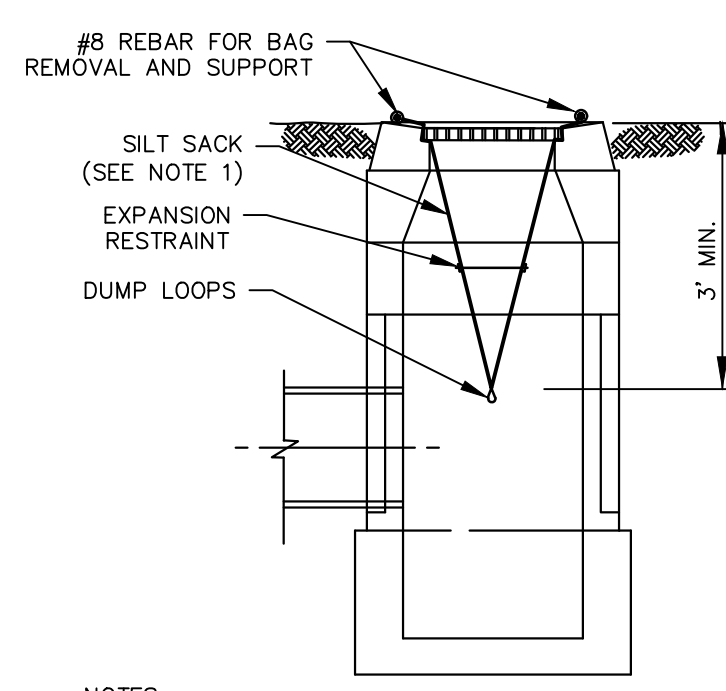
SHEET TITLE  
**DETAILS**

SHEET NUMBER  
**5 of 7**



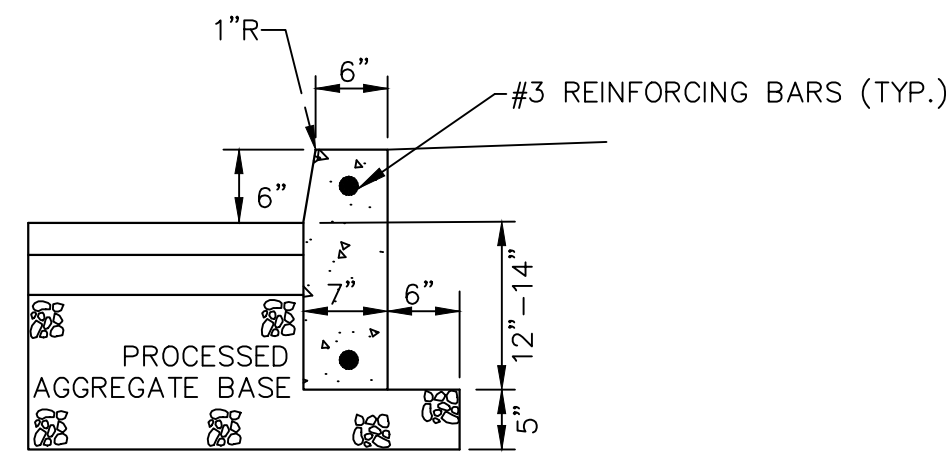
NOTES:  
1. WHEN CONCRETE BLOCKS ARE USED, MAXIMUM CORBEL IS 2" PER COURSE OF BLOCK.  
2. WALLS SHALL BE CONCRETE BLOCK OR PRECAST CONCRETE SECTIONS.  
3. WALL THICKNESS TO BE 12" WHEN TOTAL HEIGHT OF STRUCTURE EXCEEDS 10' FROM TOP OF FRAME TO BOTTOM OF BASE.  
4. THIS DETAIL SHOWN RESETTING A NEW TYPE "C" CATCH BASIN TOP WITH GRANITE CURB INLET; HOWEVER, IT SHALL BE USED FOR ALL CATCH BASIN TYPES SPECIFIED ON THE PLANS.



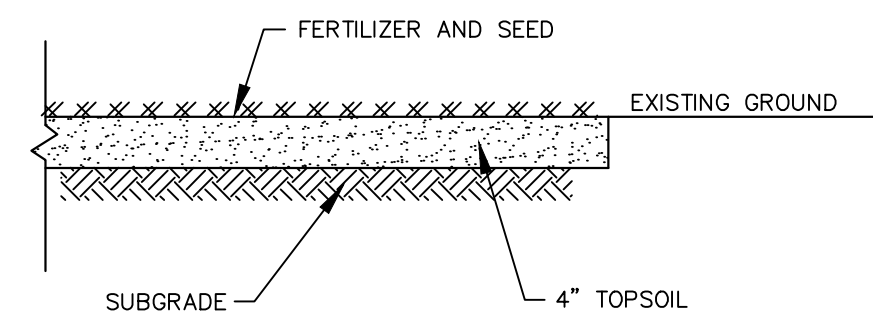


- NOTES:**
- SILT SACKS SHALL BE HI-FLOW SILTSACK® 'TYPE A' FOR TYPE 'C-L' CB TOPS AND 'TYPE B' WITH CURB DEFLECTORS FOR TYPE 'C' CB TOPS OR OTHER STRUCTURES WITH CURB INLETS AS MANUFACTURED BY ACF ENVIRONMENTAL, INC OR APPROVED EQUAL.
  - SILT SACKS SHALL BE PROVIDED WITH INTERNAL OVERFLOWS.
  - SILT SACKS SHALL BE EMPTIED WHEN THEY HAVE COLLECTED 6" TO 12" OF SEDIMENT. INSPECT EVERY 1 TO 2 WEEKS AND AFTER EVERY MAJOR RAINFALL EVENT.

**SILT SACK**  
NOT TO SCALE

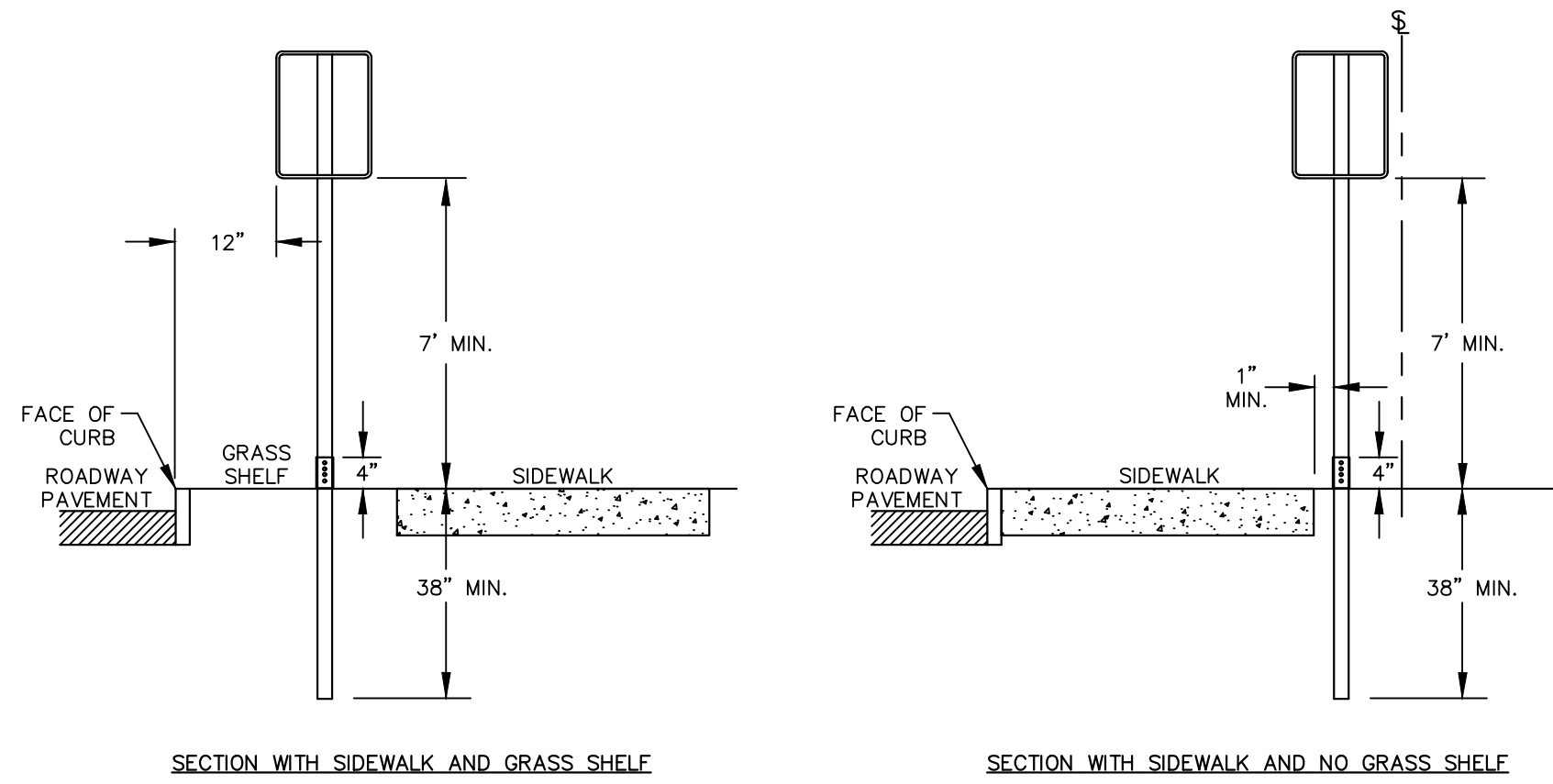


**PRECAST CONCRETE CURB**  
NOT TO SCALE



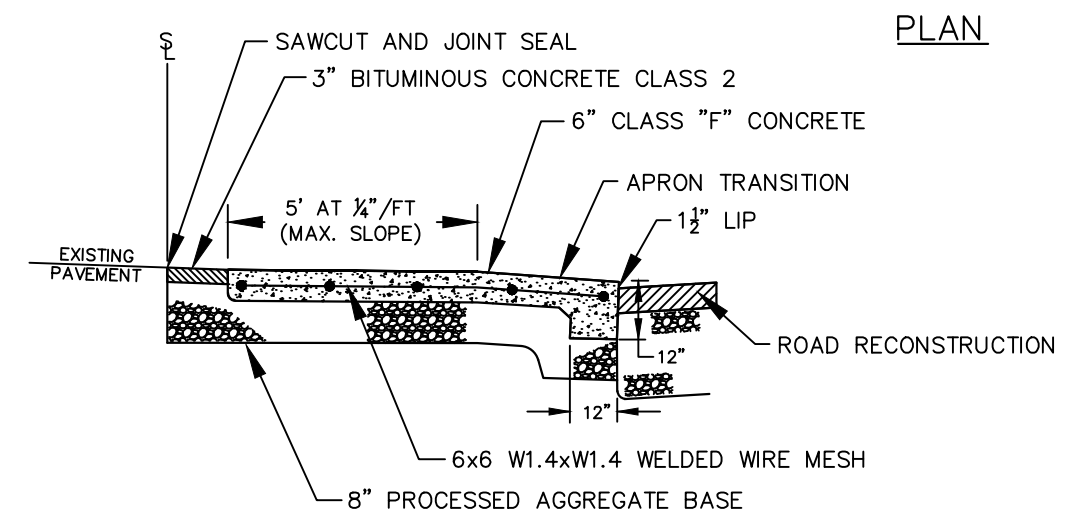
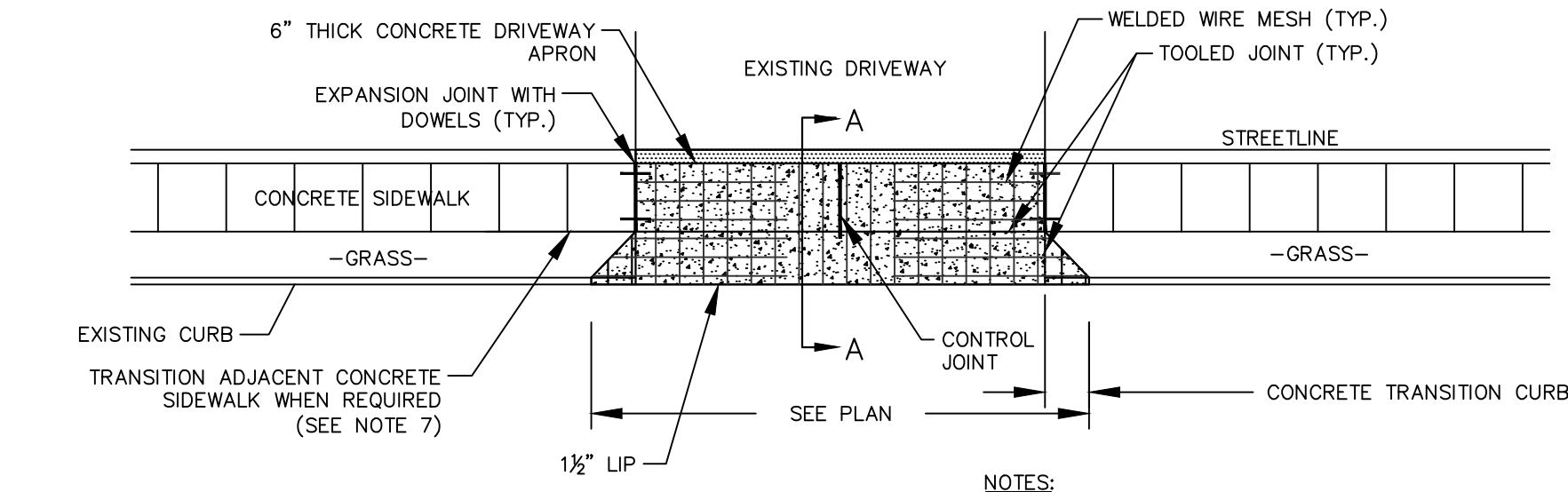
- NOTES:**
- REFER TO CONTRACT SPECIFICATIONS FOR SEED MIXTURES.
  - PERMANENT GRASS SEED MIXES SHALL BE APPLIED FROM APRIL 1 THROUGH JUNE 15 OR AUGUST 15 THROUGH OCTOBER 1.
  - PERENNIAL RYEGRASS SHALL BE APPLIED AS TEMPORARY GRASS SEED FROM MARCH 15 THROUGH JULY 1 OR AUGUST 1 THROUGH OCTOBER 15.

**RESTORATION OF LAWN AREAS**  
NOT TO SCALE



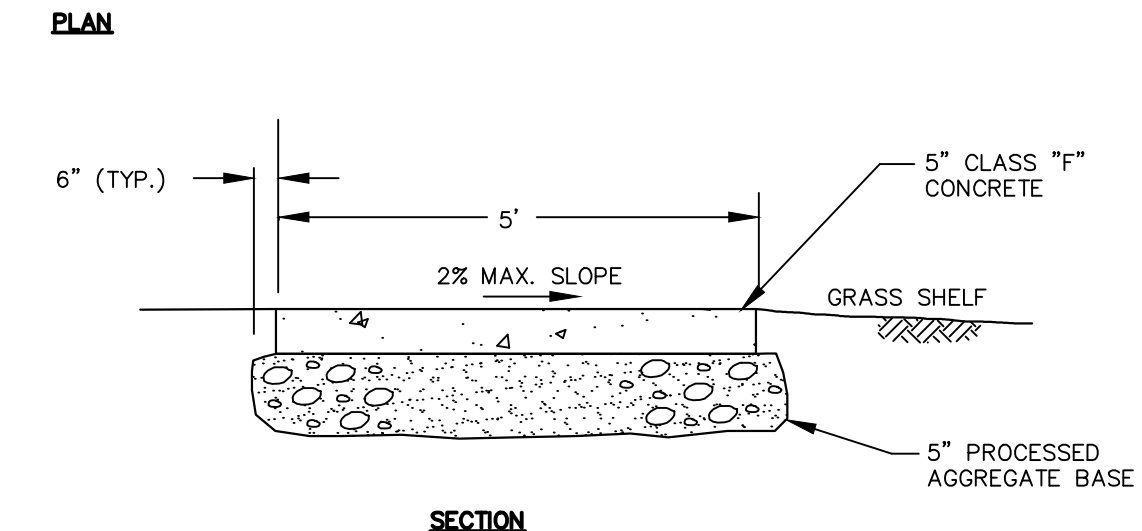
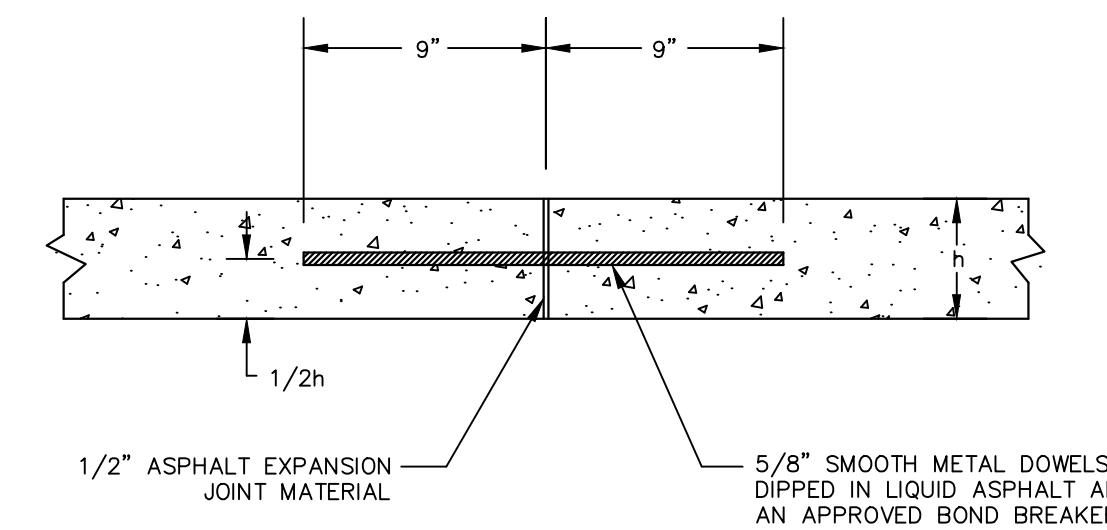
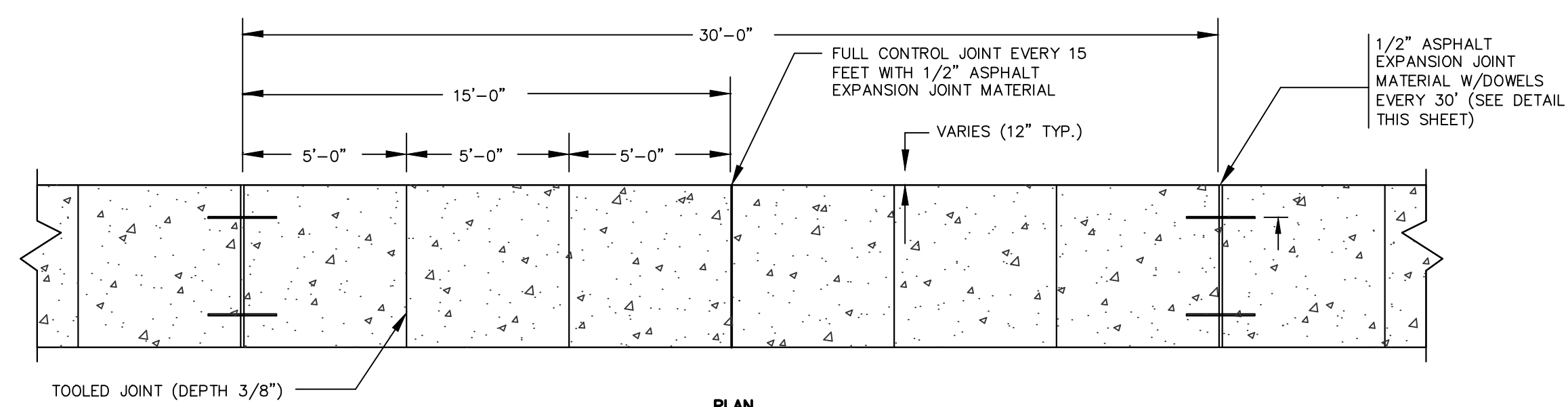
- NOTES:**
- SUPPORTS SHALL BE METAL GALVANIZED STEEL POSTS WITH BREAKAWAY COUPLING SYSTEM.
  - WHERE POSTS CANNOT BE INSTALLED BEHIND SIDEWALK, THEY SHALL BE INSTALLED WITH THE EDGE OF THE SIGN 12" FROM FACE OF CURB.

**SIGN INSTALLATION - TYPICAL**  
NOT TO SCALE



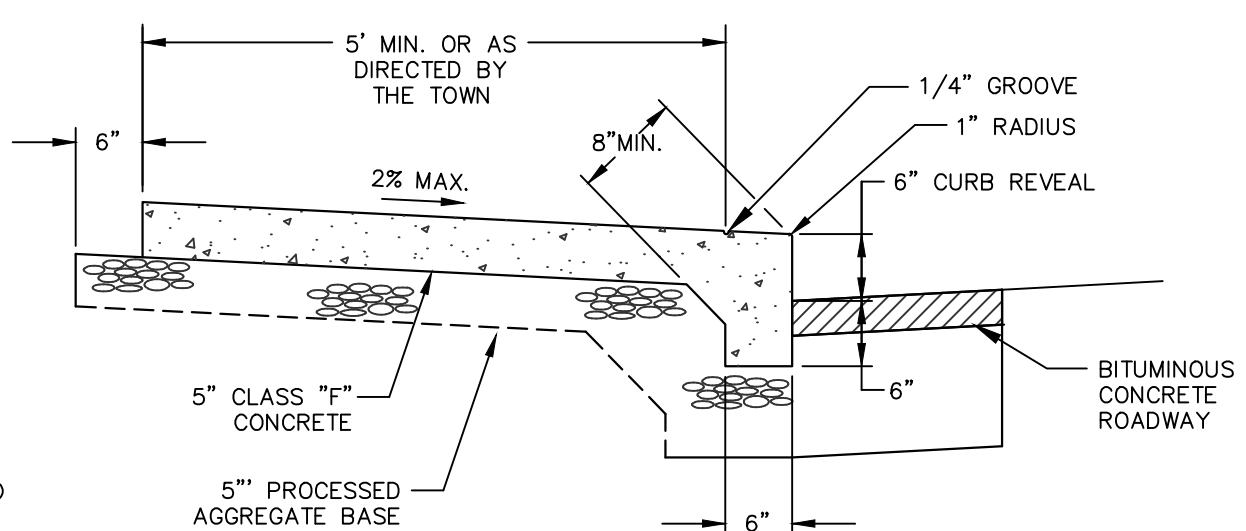
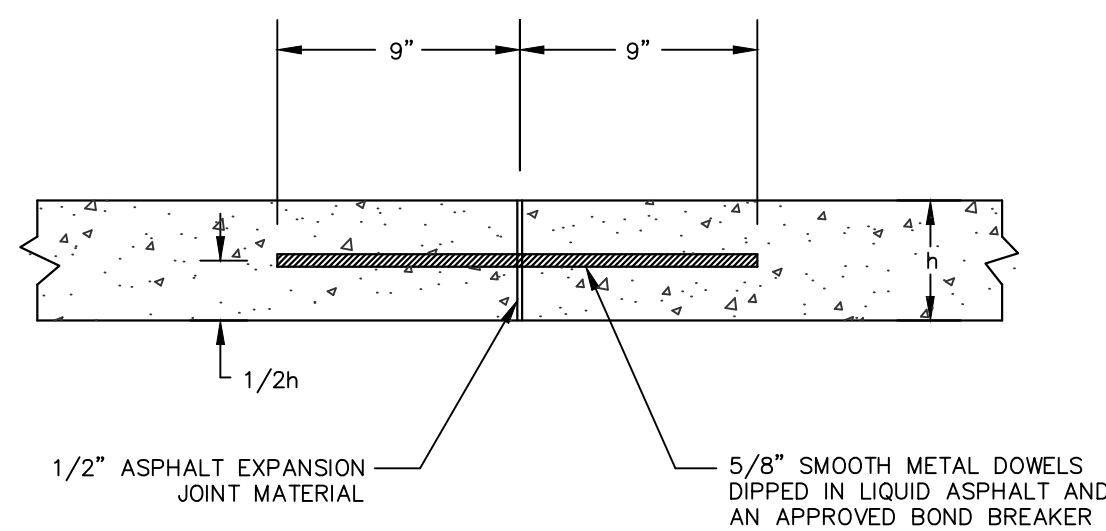
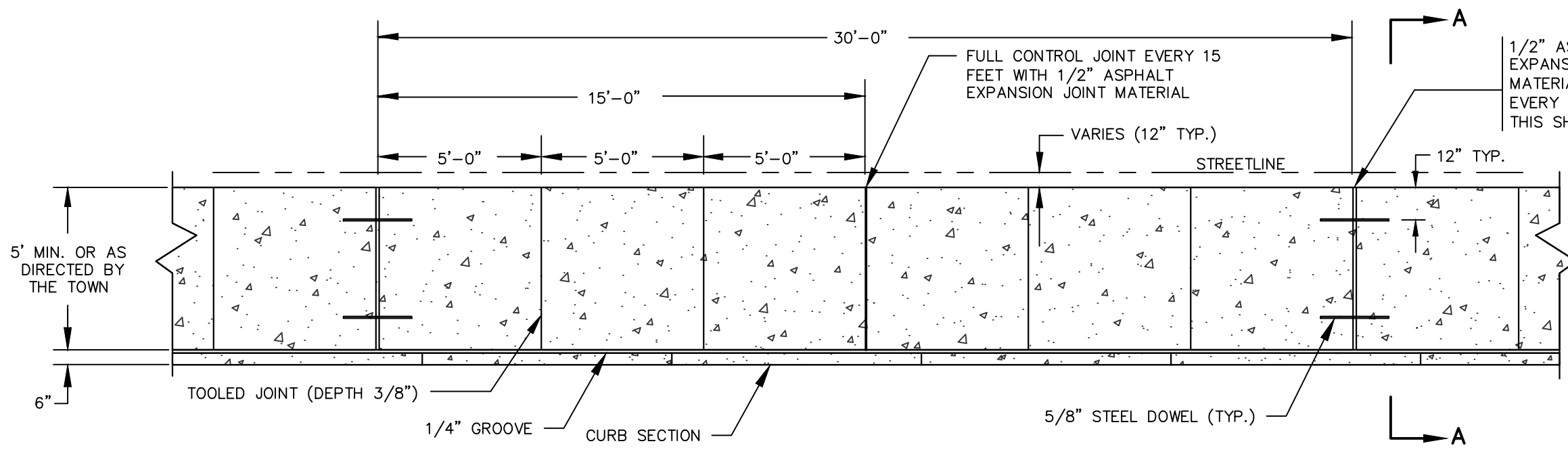
**CONCRETE DRIVEWAY APRON**  
NOT TO SCALE

- NOTES:**
- MAXIMUM WIDTH OF APRON IS 30' AT CURB LINE (INCLUDING CURB TRANSITIONS). THE TOWN MAY ALLOW WIDER APRON WIDTHS TO ACCOMMODATE EXISTING ACCESS CONDITIONS AND/OR REQUIRED VEHICLE TURNING MOVEMENTS.
  - MINIMUM DISTANCE BETWEEN MULTIPLE DRIVEWAY OPENINGS SHALL BE 10'.
  - SEE RESPECTIVE DETAILS FOR CONCRETE SIDEWALK AND CURB.
  - RESIDENTIAL DRIVEWAY APRONS SHALL BE 6" THICK AND COMMERCIAL DRIVEWAY APRONS SHALL BE 8" THICK. PAVEMENT COURSES AND PROCESSED AGGREGATE BASE THICKNESS SHALL MATCH EXISTING OR BE INSTALLED AS DIRECTED BY THE ENGINEER. PROCESSED AGGREGATE BASE THICKNESS SHALL BE 12" MINIMUM.
  - BITUMINOUS CONCRETE DRIVEWAY APRON SHALL BE INSTALLED WHERE SHELF IS 3 FT WIDE OR GREATER. SEE APPROPRIATE DETAIL.
  - TOTAL HEIGHT OF LIP AND APRON TRANSITION SHALL BE 3" MAXIMUM ABOVE THE ROAD GUTTER. WHEN REQUIRED, REPLACE ADJACENT CONCRETE SIDEWALK SLABS AT 5% MAXIMUM SLOPE AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE INCLUDED IN THE BID PRICE FOR "CONCRETE DRIVEWAY APRON".



**5" CONCRETE SIDEWALK**  
NOT TO SCALE

- NOTES:**
- A MINIMUM 36" CLEAR WIDTH SHALL BE MAINTAINED BETWEEN THE EDGES OF THE SIDEWALK AND ANY OBSTRUCTIONS WITHIN THE SIDEWALK LIMITS.
  - AT THE END OF THE DAILY POUR OF CONCRETE, METAL DOWELS ARE TO BE INSERTED IN THE LAST SLAB FOR THE EXTENSION OF THE SIDEWALK.
  - INSTALL APPROVED BOND BREAKER BETWEEN GRANITE CURB AND SIDEWALK.



**5" CONCRETE SIDEWALK AND CURB MONOLITHIC**  
NOT TO SCALE

- NOTES:**
- A MINIMUM 36" CLEAR WIDTH SHALL BE MAINTAINED BETWEEN THE EDGES OF THE SIDEWALK AND ANY OBSTRUCTIONS WITHIN THE SIDEWALK LIMITS.
  - AT THE END OF THE DAILY POUR OF CONCRETE, METAL DOWELS ARE TO BE INSERTED IN THE LAST SLAB FOR THE EXTENSION OF THE SIDEWALK.



TOWN OF MANCHESTER  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
494 MAIN STREET - P.O. BOX 191  
MANCHESTER, CT 06045-0191

**LEGEND**

|       |                         |   |                    |
|-------|-------------------------|---|--------------------|
| - - - | WETLAND BOUNDARY        | ☆ | LIGHT POLE         |
| - - - | RETAINING WALL          | ⊗ | CONIFEROUS TREE    |
| - - - | STONE WALL              | ⊗ | DECIDUOUS TREE     |
| - - - | STOCKADE FENCE          | ⊗ | SANITARY MANHOLE   |
| - - - | WIRE FENCE              | ⊗ | DRAINAGE MANHOLE   |
| - - - | CHAIN LINK FENCE        | ⊗ | CATCH BASIN        |
| - - - | PROPERTY LINE           | ⊗ | CULVERT END        |
| - - - | RAILROAD TRACKS         | ⊗ | HYDRANT            |
| - - - | SILT FENCE              | ⊗ | CURB STOP          |
| □     | CONCRETE MONUMENT       | ⊗ | WATER VALVE        |
| ■     | GRANITE MONUMENT        | ⊗ | BUTTERFLY VALVE    |
| ○     | IRON PIPE               | ⊗ | BLOW OFF           |
| ●     | IRON ROD                | ⊗ | SIGN               |
| △     | CONTROL POINT           | ⊗ | DOUBLE POST SIGN   |
| ○     | DRILL HOLE              | ⊗ | MAIL BOX           |
| ○     | UTILITY POLE            | ⊗ | BOLLARD            |
| ○     | UTILITY POLE WITH LIGHT | ⊗ | CONTROLLER CABINET |
| ⊗     | TRAFFIC SPAN POLE       | ⊗ | GAS GATE           |
| ⊗     | ELECTRIC BOX            | ⊗ | TELEPHONE BOX      |
| ⊗     | WETLAND FLAG            | ⊗ | CATV TUBE          |

PROJECT NUMBER  
**2024075**

FILENAME  
**2024075-PLAN.DWG**

| NO. | DATE     | FILE        |
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DRAWN BY: JL  
CHECKED BY: JL  
RELEASED BY: TB

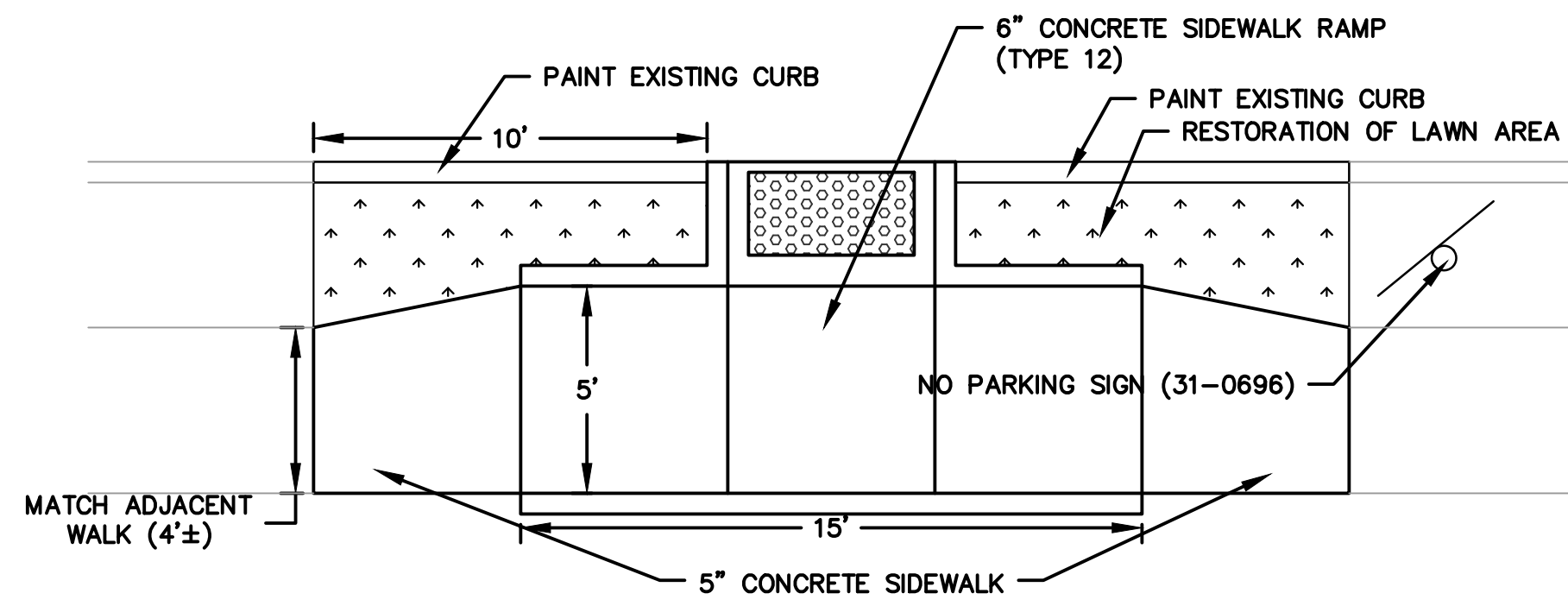
DATUM  
HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION  
**BLUEFIELD DR. CASE DR.  
CARVER LN. HOUSE DR.  
MCQUIRE LN.**

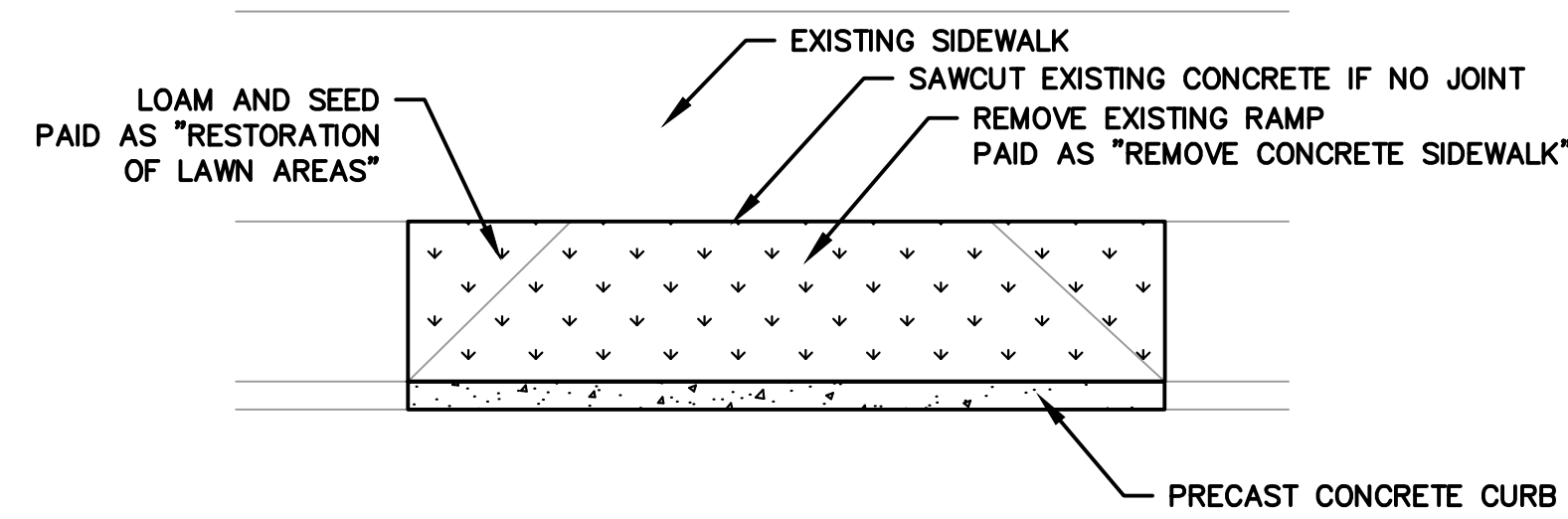
PROJECT TITLE  
**ROAD RESURFACING  
MANCHESTER HOUSING  
AUTHORITY**

SHEET TITLE  
**DETAILS**

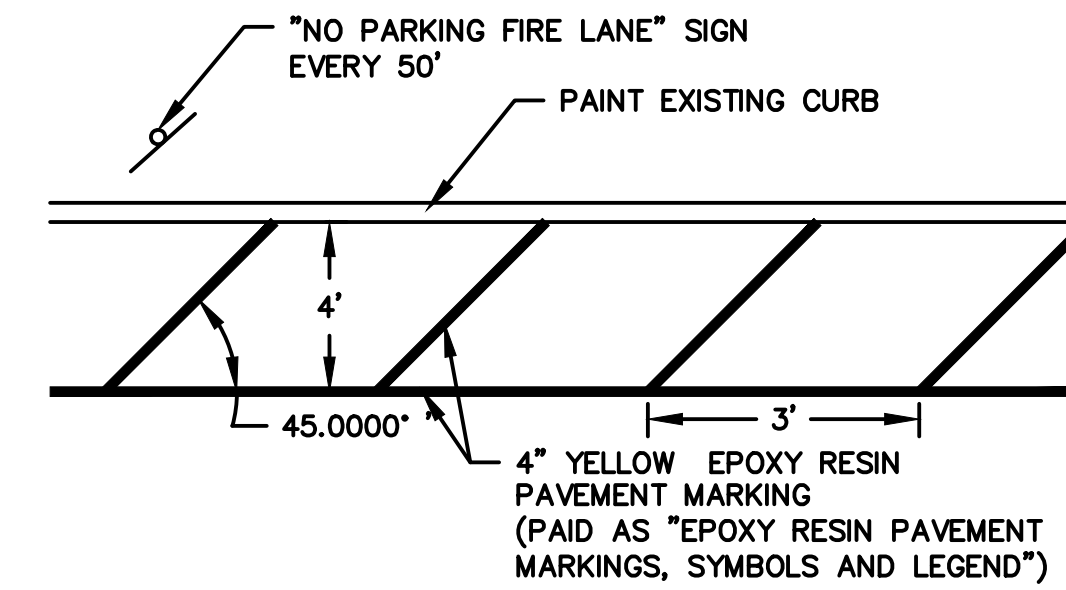
SHEET NUMBER  
**6 of 7**



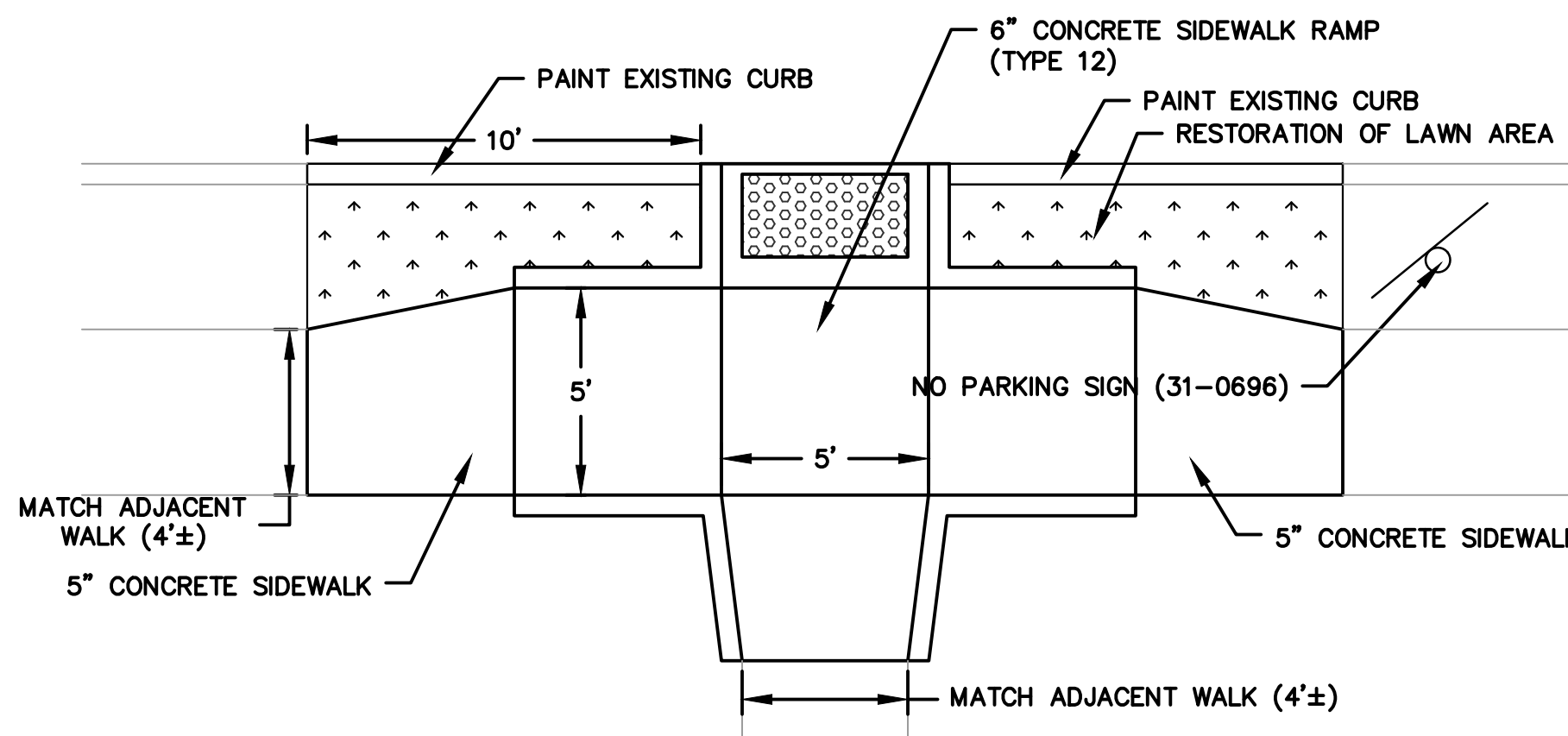
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NOT TO SCALE



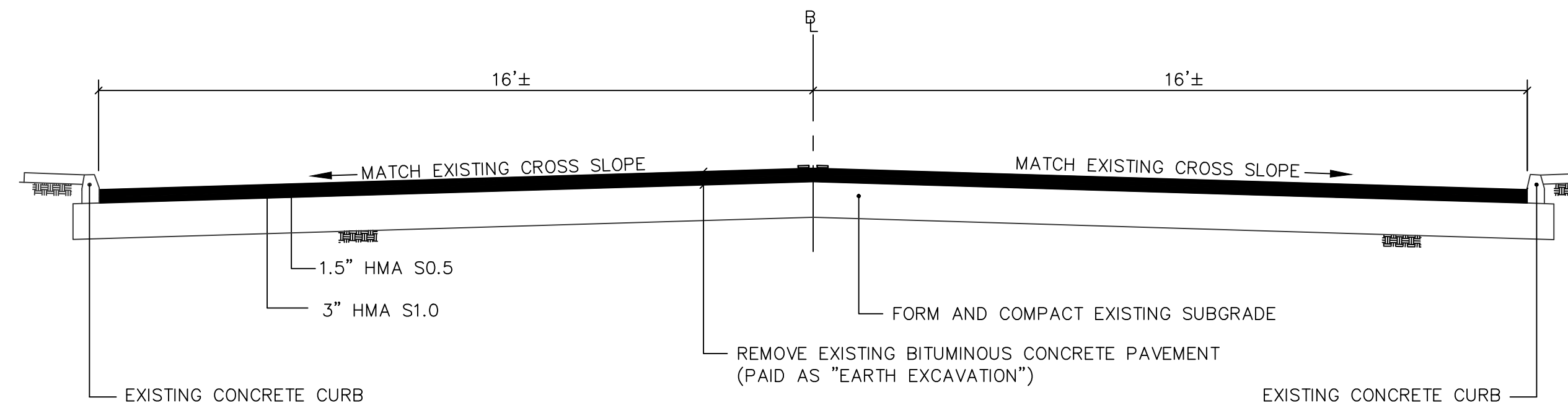
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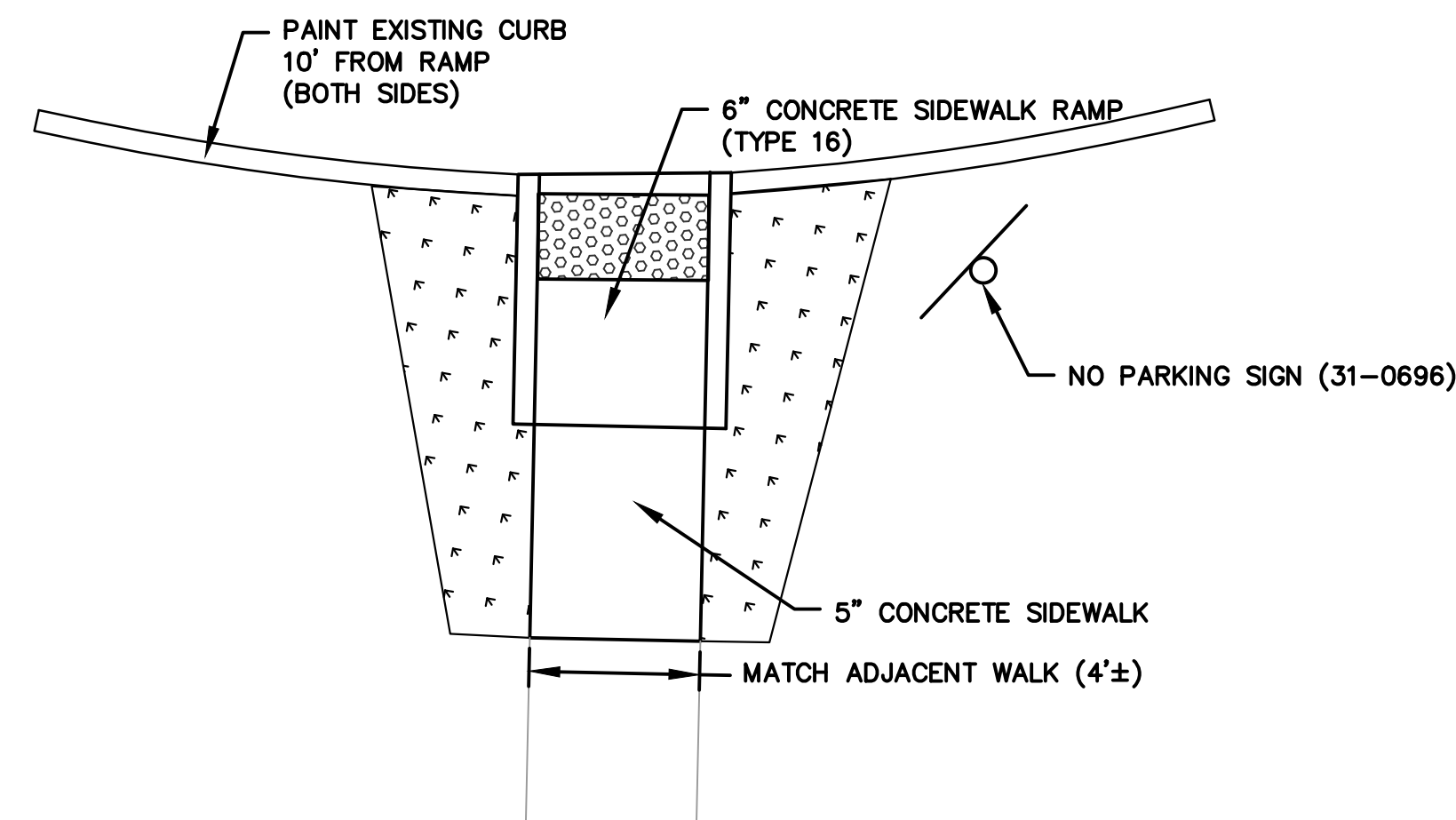
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NOT TO SCALE



**LOADING ZONE (TYPE 2)**  
NOT TO SCALE



**TYPICAL ROADWAY SECTION**  
NOT TO SCALE



**LOADING ZONE (TYPE 3)**  
NOT TO SCALE

**GENERAL NOTES:**

- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "MANCHESTER PUBLIC IMPROVEMENT STANDARDS", EFFECTIVE OCTOBER 31, 2020, AS AMENDED AND THE STATE OF CONN. DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818, DATED 2020, INCLUDING ANY SUPPLEMENTS.
- ALL ELEVATIONS ARE BASED ON THE TOWN OF MANCHESTER CONTROL NETWORK.
- IMPLEMENTING WORKER SAFETY AND HEALTH PROTOCOLS THAT ADDRESS COMPLIANCE WITH ALL RULES, LAWS AND REGULATIONS REGARDING SAFETY AND RISK OF EXPOSURE TO PHYSICAL AND CHEMICAL HAZARDS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL EMPLOYEES OF THE CONTRACTOR AND SUBCONTRACTORS ARE TO WEAR REFLECTIVE VESTS AND HARD HATS AT ALL TIMES WHEN ON THE PROJECT SITE.
- A PRECONSTRUCTION MEETING WITH TOWN STAFF IS REQUIRED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL PHASE CONSTRUCTION OPERATIONS TO MINIMIZE THE SIZE OF DISTURBED AREAS AND PERIOD OF TIME THESE AREAS ARE LEFT UNSTABILIZED AND SUBJECT TO EROSION. THIS INCLUDES, BUT IS NOT LIMITED TO, INSTALLATION OF DRAINAGE SYSTEMS DURING THE EARLY STAGES OF CONSTRUCTION AND LIMITING LENGTHS OF RECLAMATION AND FULL-DEPTH ROAD RECONSTRUCTION AREAS TO ALSO LESSEN IMPACTS TO VEHICLE AND PEDESTRIAN TRAVEL THROUGH THE PROJECT AREA.
- THE CONTRACTOR SHALL TAKE CARE NOT TO DISTURB EXISTING MONUMENTATION THAT MAY BE PRESENT NEAR THE PROJECT AREA.
- THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL REQUIRED PERMITS AND PAY ASSOCIATED FEES PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR MUST OBTAIN AN ENCROACHMENT PERMIT FROM THE STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION, PRIOR TO BEGINNING WORK WITHIN THE WEST CENTER STREET RIGHT-OF-WAY AND SHALL BE RESPONSIBLE FOR ALL ASSOCIATED FEES AND REQUIREMENTS.
- THE CONTRACTOR SHALL CONFINE ALL OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE STREET LINE AND LIMITS OF UTILITY EASEMENTS UNLESS SHOWN OTHERWISE ON THE PLANS.
- THE CONTRACTOR SHALL RESTORE TWO LANES OF TRAFFIC ON XXX STREET AT THE END OF EACH WORK DAY. IT IS ANTICIPATED THAT THE ROAD WILL REMAIN OPEN AT ALL TIMES WITH ALTERNATING ONE LANE TRAFFIC DURING CONSTRUCTION.
- THE CONTRACTOR SHALL COMMIT SUFFICIENT RESOURCES TO THE PROJECT TO ENSURE THE PROJECT IS COMPLETED WITHIN THE ALLOTTED CONTRACT TIME. ONCE MOBILIZED, THE CONTRACTOR SHALL WORK CONTINUOUSLY ON THE PROJECT UNTIL COMPLETION. ANY UNAUTHORIZED VACATING OF THE JOBSITE IS SUBJECT TO PENALTIES DESCRIBED UNDER THE "LIQUIDATED DAMAGES" SECTION OF THE CONTRACT SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT STORE CONSTRUCTION EQUIPMENT OR MATERIALS WITHIN THE PUBLIC RIGHT-OF-WAY.
- CONSTRUCTION ENTRANCES ARE NOT SHOWN ON THE PLAN; HOWEVER, THEY SHALL BE INSTALLED WHERE DIRECTED BY THE ENGINEER DURING CONSTRUCTION FOR EGRESS FROM TEMPORARY STOCKPILE AREAS. THE PROPOSED LOCATION OF STOCKPILE AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR.
- NO WORK SHALL COMMENCE UNTIL ALL CONSTRUCTION AREA SIGNS ARE IN PLACE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO ALL DRIVEWAYS AT ALL TIMES.
- ALL GRASSED AREAS DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH TOPSOIL, FERTILIZED AND SEEDS AS PER THE SPECIFICATIONS. CONTRACTOR SHALL MAKE ALL EFFORTS TO MINIMIZE THE LIMITS OF DISTURBANCE AND ASSOCIATED RESTORATION THAT IS REQUIRED.
- ANY DRIVEWAYS, SIDEWALKS, CURB AND LAWN AREAS LOCATED ON PRIVATE PROPERTY OR WITHIN THE RIGHT-OF-WAY THAT ARE IMPACTED DURING CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS AS IDENTIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE REQUIRED LIMITS OF SUCH RESTORATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. RESTORATION ON PRIVATE PROPERTY SHALL BE COMPLETED AS PROMPTLY AS PRACTICAL WITHIN THIRTY (30) CALENDAR DAYS OF COMPLETING WORK ON THE PROPERTY.
- ACTUAL LIMITS OF CURB INSTALLATION AND DRIVEWAY RECONSTRUCTION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. THE CONTRACTOR SHALL AVOID IMPACTS TO EXISTING DRIVEWAYS WHEREVER POSSIBLE TO MINIMIZE REQUIRED RECONSTRUCTION LIMITS.
- ALL SEDIMENT CONTROL SYSTEMS SHALL MEET THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" AS PREPARED BY THE

CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, LATEST REVISION. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND REPAIR OF EROSION CONTROLS REQUIRED FOR THE PROJECT. ADDITIONAL EROSION CONTROLS SHALL BE INSTALLED BY THE CONTRACTOR FOR TEMPORARY STOCKPILING OF EXCAVATED MATERIAL AND WHERE DEEMED NECESSARY BY THE ENGINEER. EROSION CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL THE SITE IS STABILIZED AND THE ENGINEER APPROVES THEIR REMOVAL.

- SILT SACKS SHALL BE INSTALLED IN ALL EXISTING AND PROPOSED CATCH BASINS WITHIN THE PROJECT AREA AND WHERE DIRECTED BY THE ENGINEER. SILT SACKS SHALL BE THE APPROPRIATE TYPE FOR CATCH BASINS WITH AND WITHOUT CURB INLETS.
- HORIZONTAL AND VERTICAL LOCATIONS OF PROPOSED WORK MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF CONDITIONS ENCOUNTERED IN THE FIELD ARE DIFFERENT THAN INFORMATION SHOWN ON THE PLANS.
- THE EXISTENCE OF UTILITIES AND APPURTENANCES AS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. THE EXACT SIZE, LOCATION, TYPE, AND ELEVATION OF ALL UTILITIES WITHIN ALL WORK AREAS SHALL BE THOROUGHLY INVESTIGATED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "CALL-BEFORE-YOU-DIG" AT 1-800-922-4455 AND MUST HAVE ALL UTILITIES MARKED ON THE GROUND PRIOR TO THE START OF CONSTRUCTION.
- THE QUANTITIES AS INDICATED IN THE CONTRACT DOCUMENTS ARE APPROXIMATE AND MAY NOT INDICATE THE ACTUAL QUANTITIES OF WORK REQUIRED. THE CONTRACTOR MUST VERIFY ALL QUANTITIES.
- SURPLUS EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL DISPOSE OF SURPLUS EXCAVATED MATERIAL IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.



TOWN OF MANCHESTER  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
494 MAIN STREET - P.O. BOX 191  
MANCHESTER, CT 06045-0191

**LEGEND**

|                           |                           |
|---------------------------|---------------------------|
| — WETLANDS BOUNDARY       | ☆ LIGHT POLE              |
| — RETAINING WALL          | ⊗ CONIFEROUS TREE         |
| — GUEE WALL               | ⊗ DEODOROUS TREE          |
| — STONE WALL              | ⊗ SANITARY MANHOLE        |
| — STOCKADE FENCE          | ⊗ DRAINAGE MANHOLE        |
| — WIRE FENCE              | ⊗ CATCH BASIN             |
| — CHAIN LINK FENCE        | ⊗ CULVERT END             |
| — PROPERTY LINE           | ⊗ HYDRANT                 |
| — RAILROAD TRACKS         | ⊗ CURB STOP               |
| — SILT FENCE              | ⊗ WATER VALVE             |
| ⊗ CONCRETE MONUMENT       | ⊗ BUTTERFLY VALVE         |
| ⊗ GRANITE MONUMENT        | ⊗ BLOW OFF                |
| ⊗ IRON PIPE               | ⊗ SIGN                    |
| ⊗ IRON ROD                | ⊗ DOUBLE POST SIGN        |
| ⊗ CONTROL POINT           | ⊗ MAIL BOX                |
| ⊗ DRILL HOLE              | ⊗ BOLLARD                 |
| ⊗ UTILITY POLE            | ⊗ UTILITY POLE WITH LIGHT |
| ⊗ UTILITY POLE WITH LIGHT | ⊗ GAS GATE                |
| ⊗ TRAFFIC SPAN POLE       | ⊗ TELEPHONE BOX           |
| ⊗ ELECTRIC BOX            | ⊗ CATV TUBE               |
| ⊗ WETLAND FLAG            |                           |

PROJECT NUMBER  
**2024075**

FILENAME  
**2024075-PLAN.DWG**

| NO. | DATE     | FILE        |
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| —   | 07/09/24 | FOR BIDDING |
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DRAWN BY: JL  
CHECKED BY: JL  
RELEASED BY: TB

DATUM  
HORIZONTAL: NAD83 VERTICAL: NAVD88

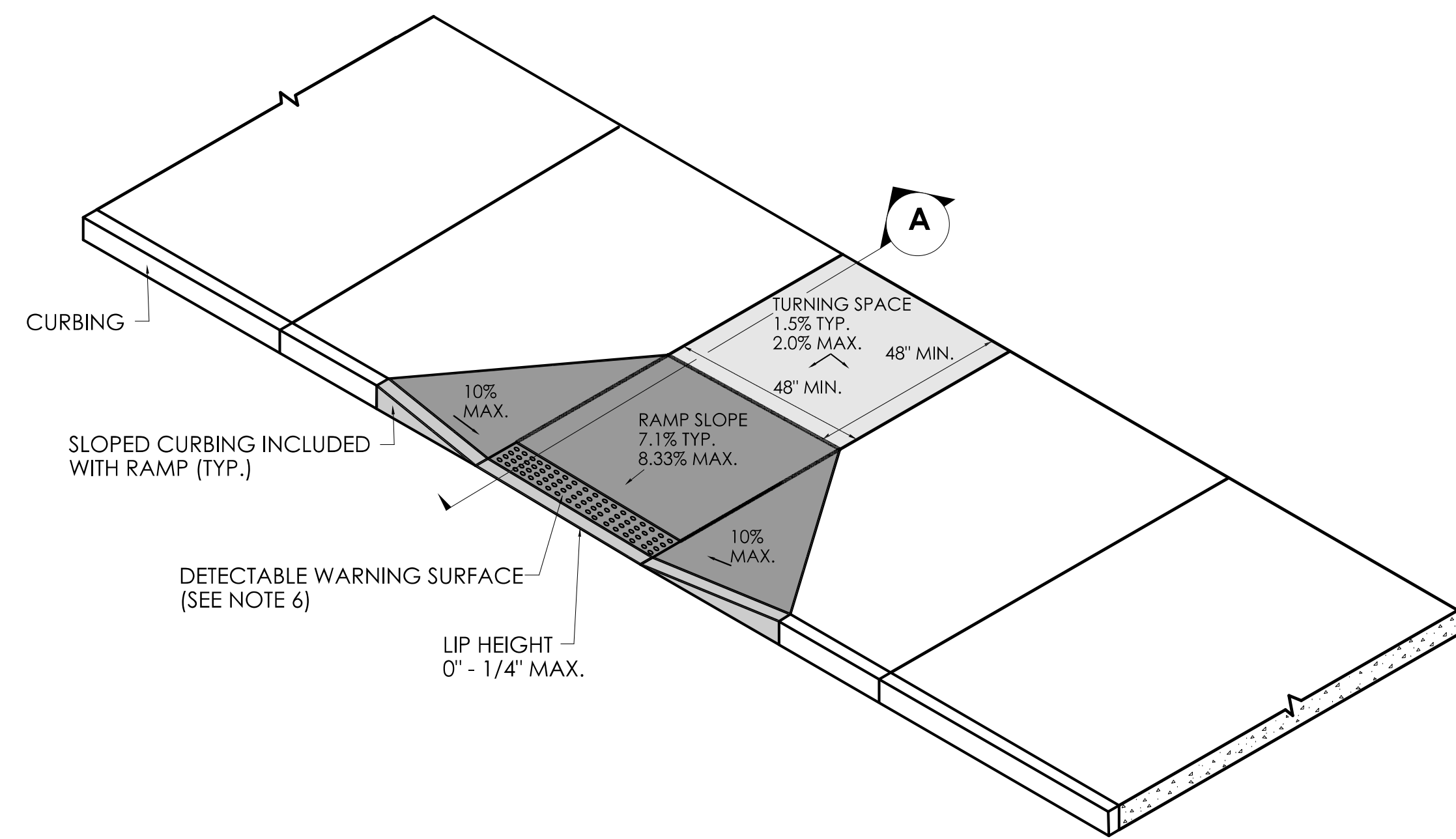
PROJECT LOCATION  
**BLUEFIELD DR. CASE DR.  
CARVER LN. HOUSE DR.  
MCQUIRE LN.**

PROJECT TITLE  
**ROAD RESURFACING  
MANCHESTER HOUSING  
AUTHORITY**

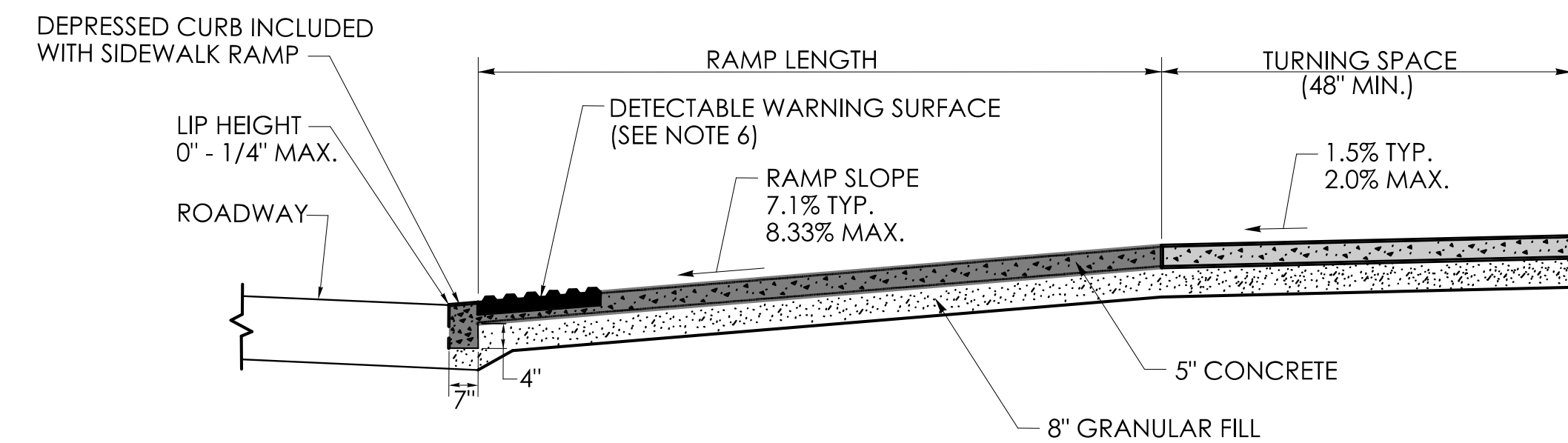
SHEET TITLE  
**DETAILS**

SHEET NUMBER  
**7 of 7**

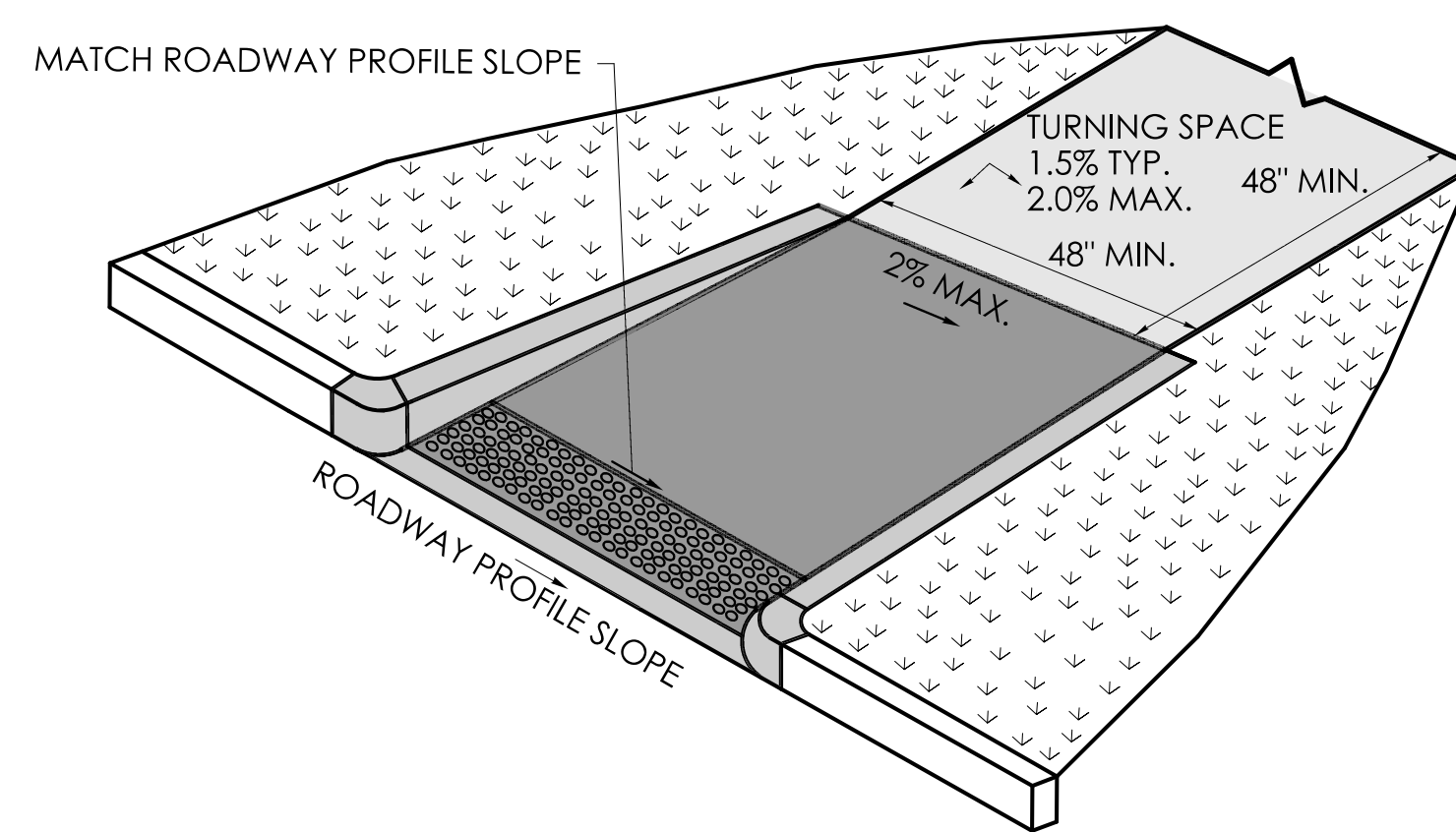




**PERPENDICULAR SIDEWALK RAMP AND SECTION**

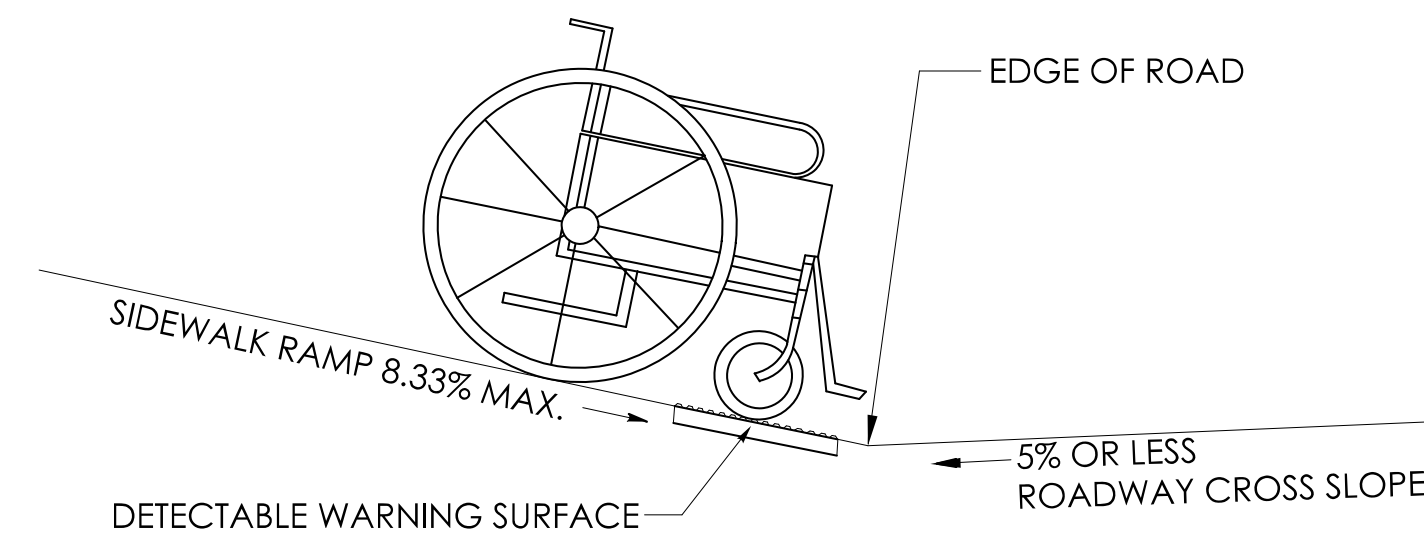


**SECTION A**

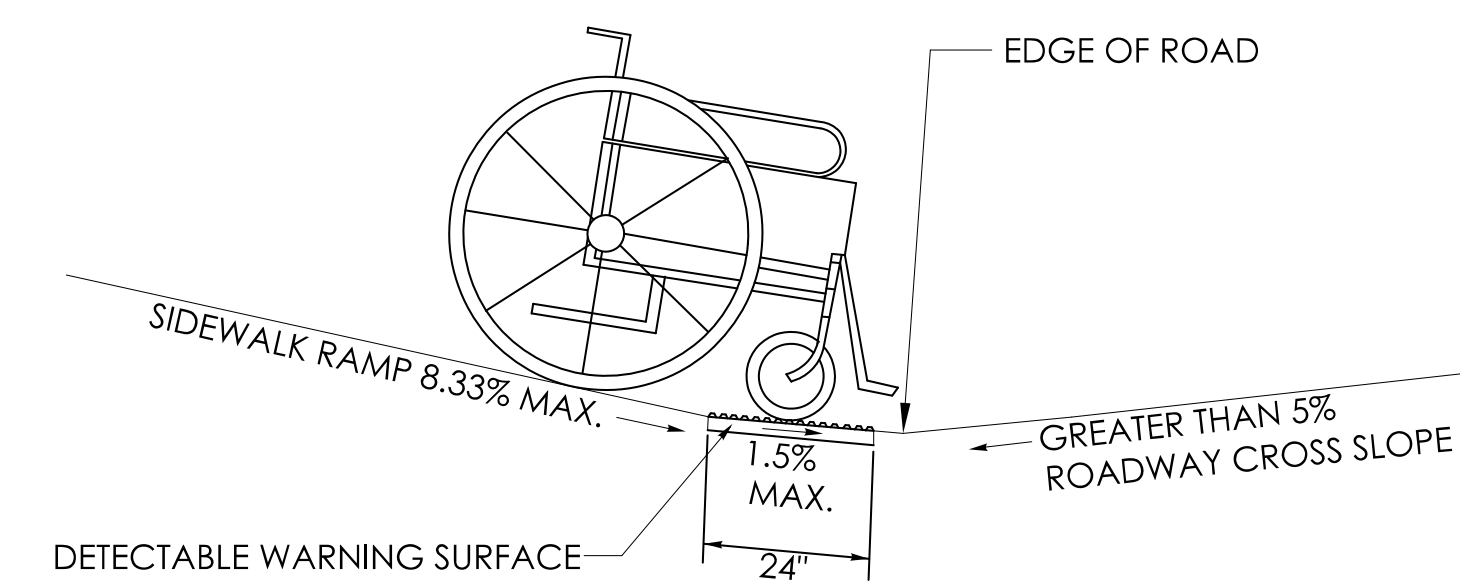


**RAMP WARPING DETAIL**

1. TRANSITION SIDEWALK RAMP TO MATCH ROADWAY PROFILE AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3% PER FOOT CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
2. COMPLETE TRANSITION TO THE ROADWAY PROFILE BEHIND THE DETECTABLE WARNING SURFACE.



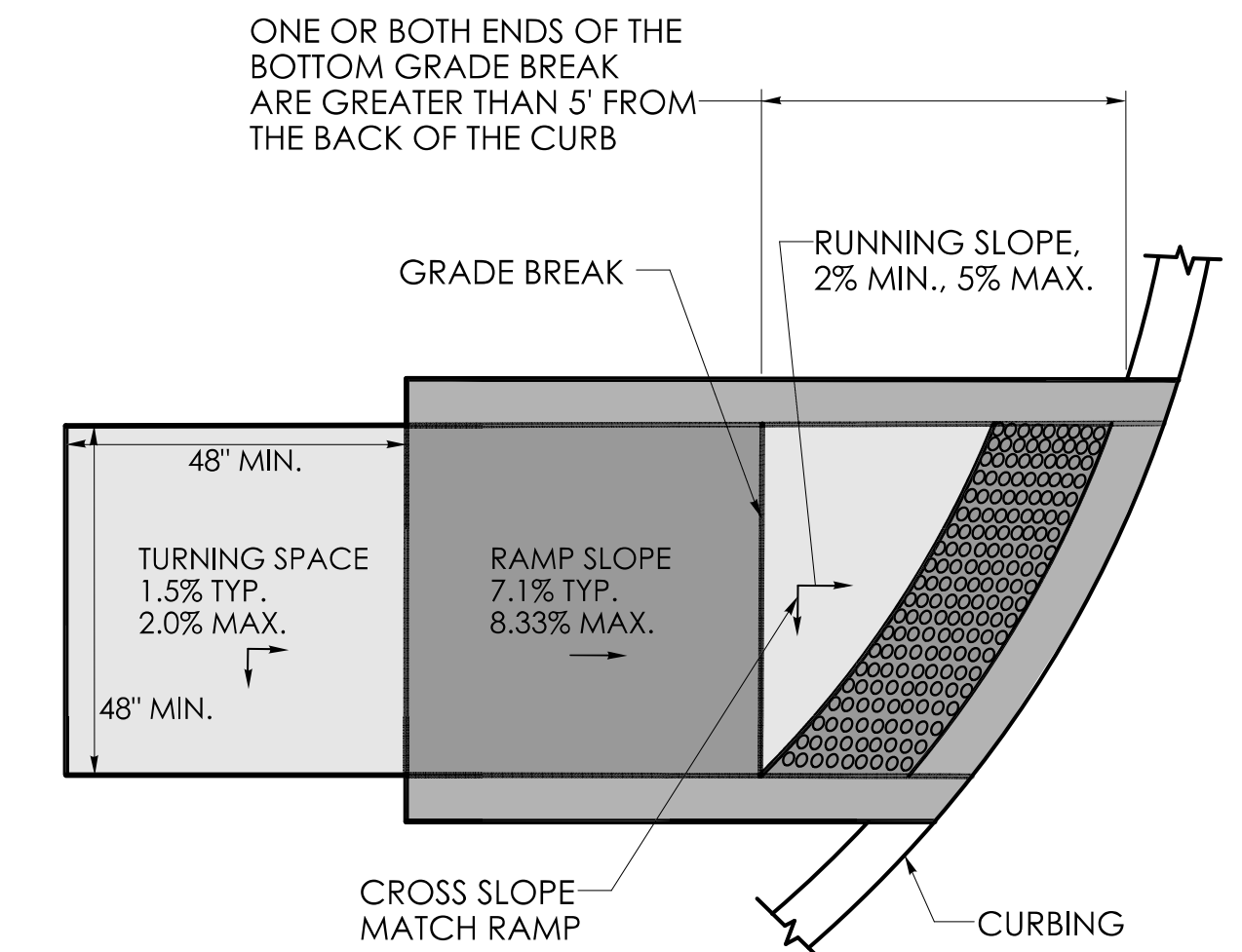
**SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF 5% OR LESS GUTTER COUNTER SLOPE**



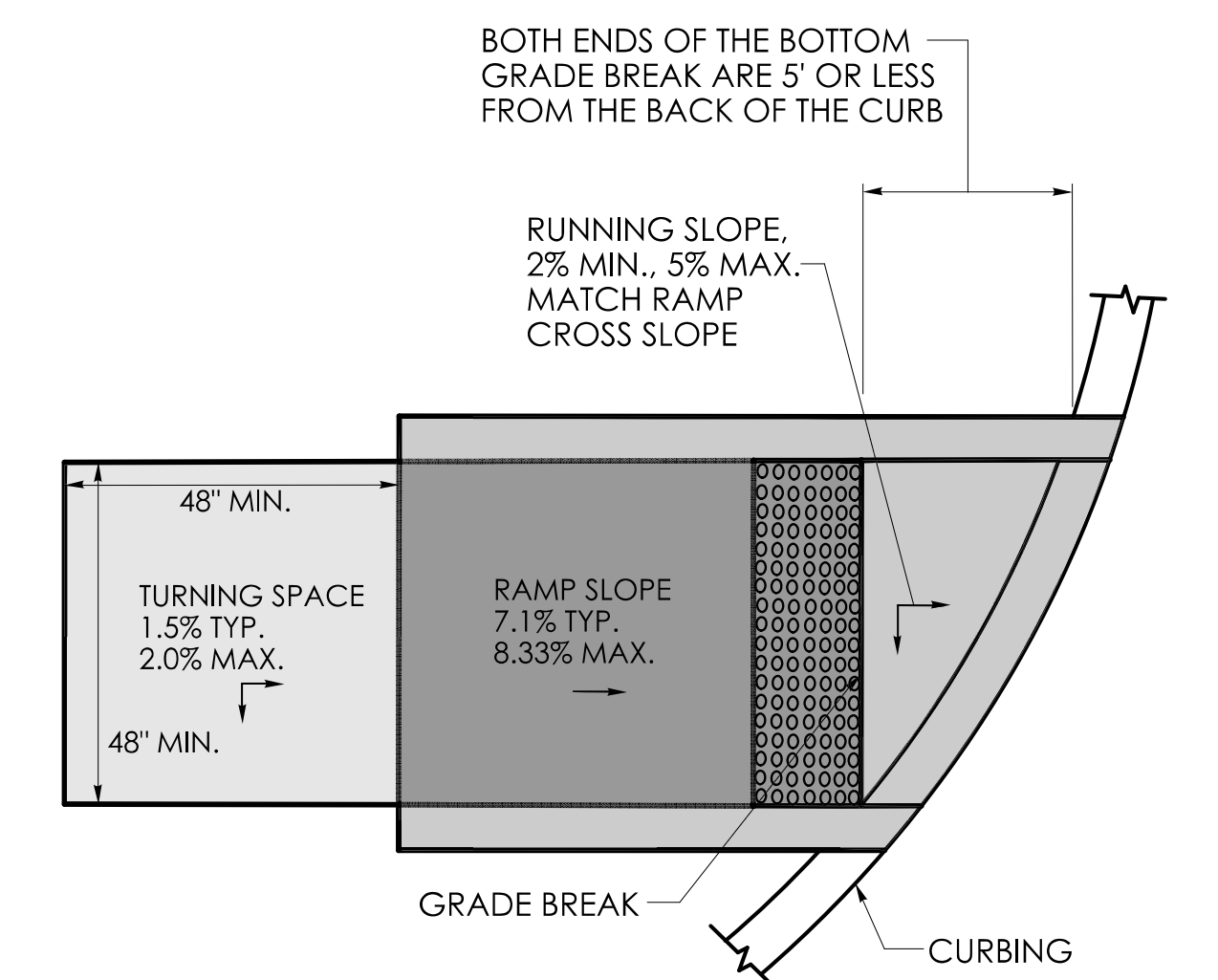
**SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF GREATER THAN 5% GUTTER COUNTER SLOPE**

**GENERAL NOTES:**

1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4" INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.33 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.
5. DETECTABLE WARNING SURFACES SHALL BE INSTALLED ON SIDEWALK RAMPS AT PEDESTRIAN STREET CROSSINGS, PEDESTRIAN REFUGE ISLANDS AND RAILROAD CROSSINGS ALONG STREETS OR HIGHWAYS.
6. DETECTABLE WARNING SURFACES SHALL EXTEND 2 FEET MIN. IN THE DIRECTION OF PEDESTRIAN TRAVEL AND SPAN THE ENTIRE RAMP OPENING.
7. ALL GUIDESHEET VALUES COMPLY WITH PROWAG DRAFT 2013 GUIDELINES. UPDATED VALUES WILL BE MADE TO COMPLY WITH PROWAG FINAL RULE ONCE OFFICIALLY THE LAW.
8. CTDOT DESIGN STANDARD USE THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) SEE ENGINEERING DIRECTIVE ED-2019-7.
9. CURB RAMPS SHALL BE CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE WITHIN THE PEDESTRIAN ACCESS ROUTE.



**GRADE BREAK GREATER THAN 5' DETECTABLE WARNING SURFACE LOCATION**

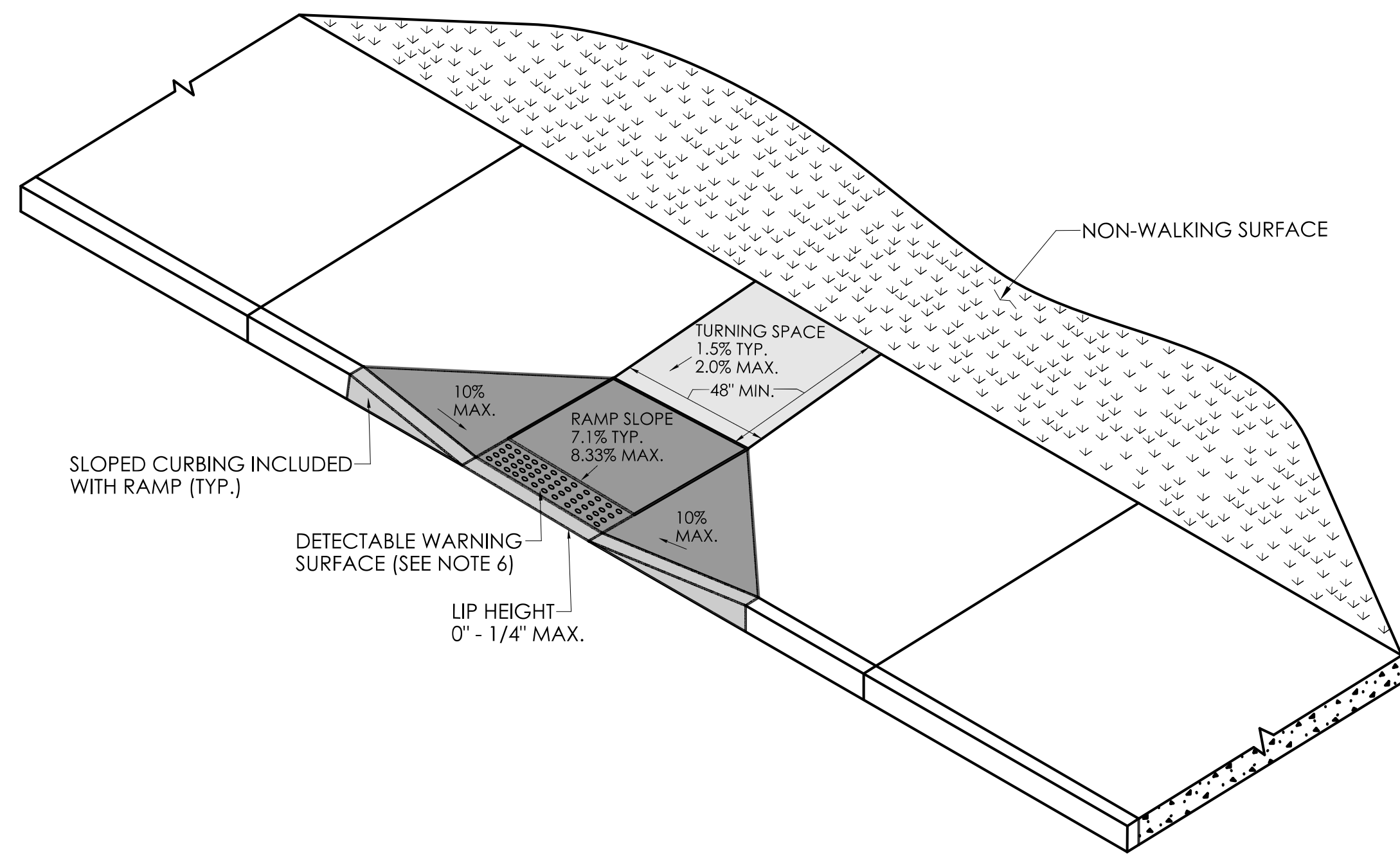


**GRADE BREAK OF 5' OR LESS DETECTABLE WARNING SURFACE LOCATION**

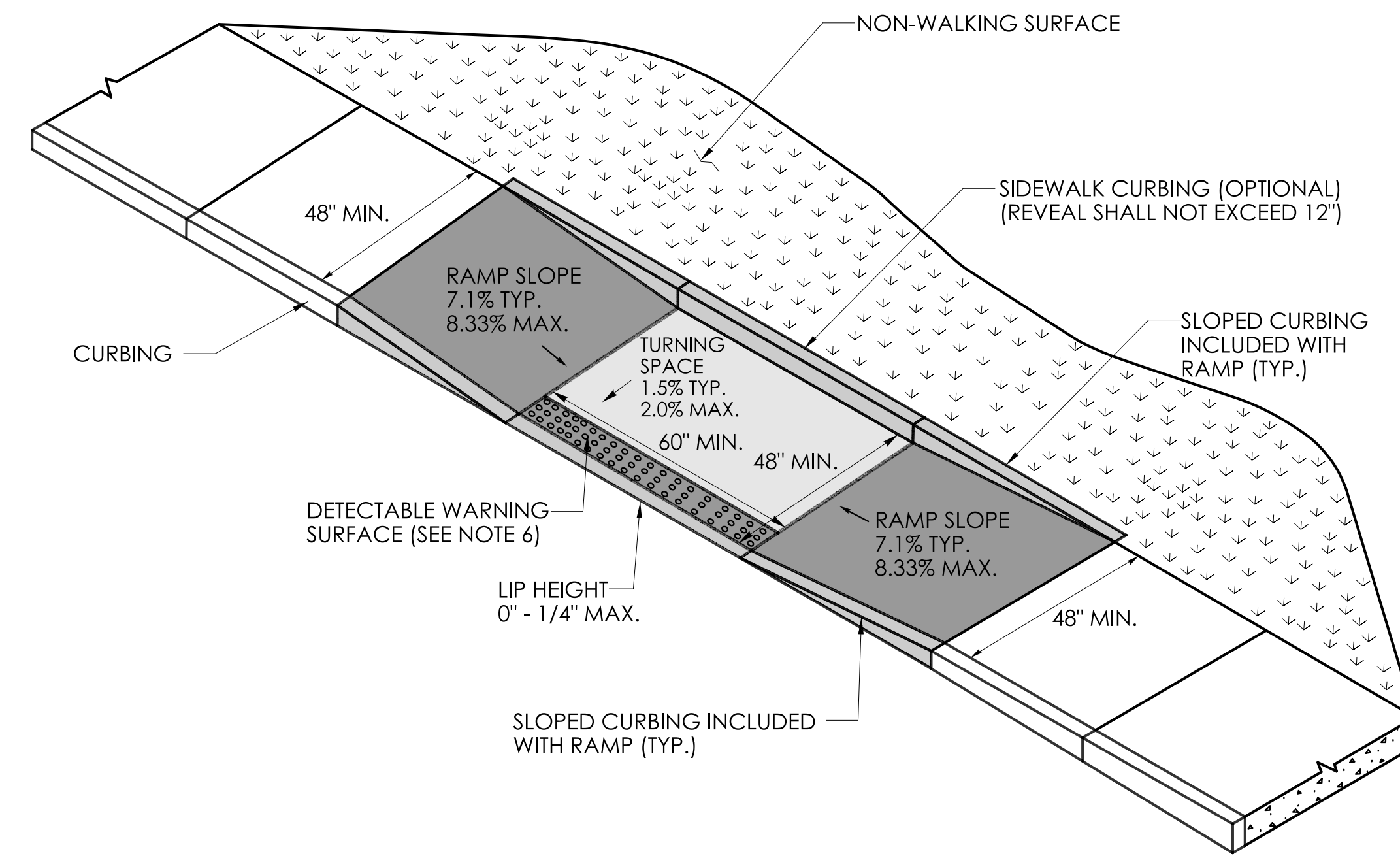
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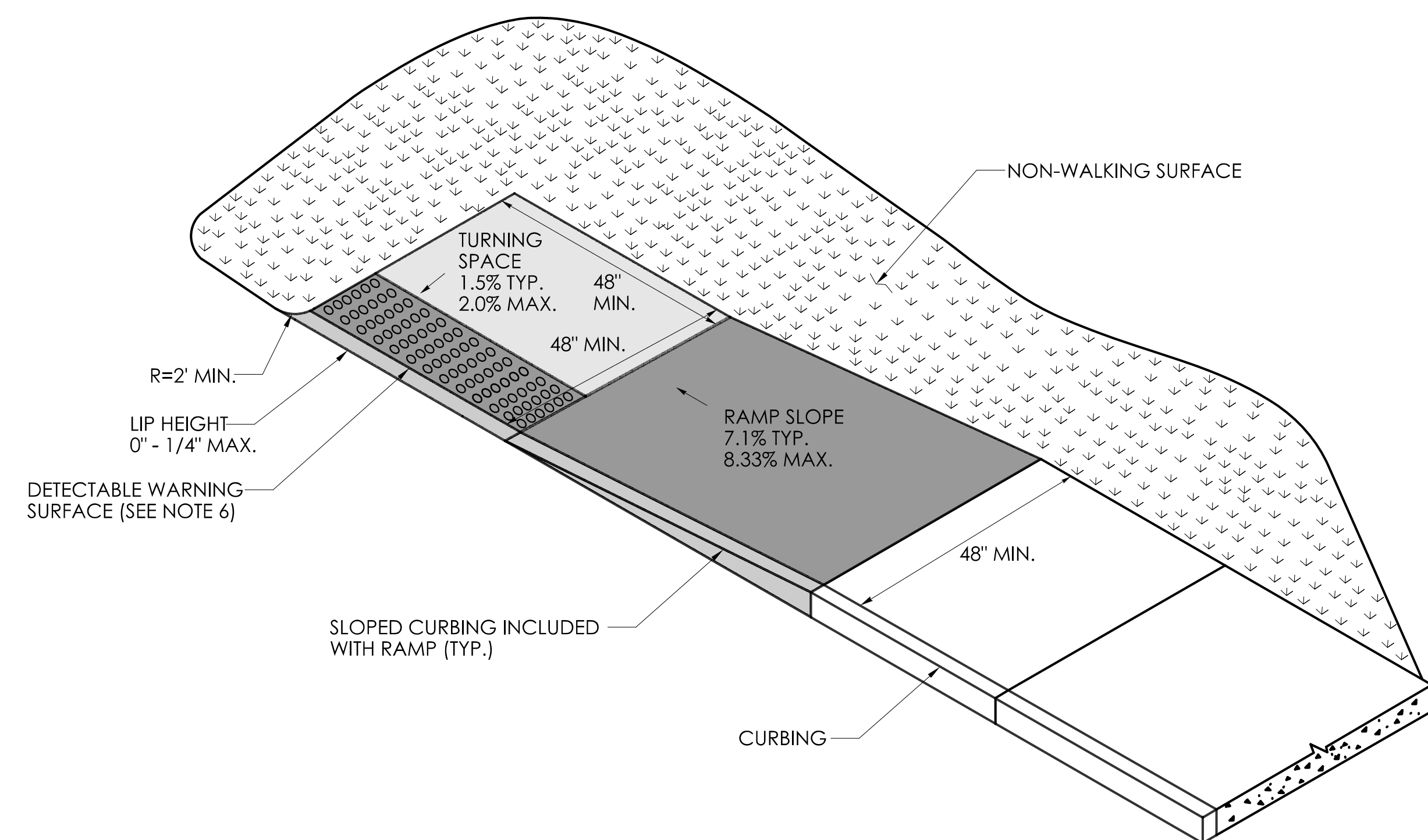
- GENERAL NOTES:**
1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
  2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
  3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
  4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.33 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.
  5. DETECTABLE WARNING SURFACES SHALL BE INSTALLED ON SIDEWALK RAMPS AT PEDESTRIAN STREET CROSSINGS, PEDESTRIAN REFUGE ISLANDS AND RAILROAD CROSSINGS ALONG STREETS OR HIGHWAYS.
  6. DETECTABLE WARNING SURFACES SHALL EXTEND 2 FEET MIN. IN THE DIRECTION OF PEDESTRIAN TRAVEL AND SPAN THE ENTIRE RAMP OPENING.
  7. ALL GUIDESHEET VALUES COMPLY WITH PROWAG DRAFT 2013 GUIDELINES. UPDATED VALUES WILL BE MADE TO COMPLY WITH PROWAG FINAL RULE ONCE OFFICIALLY THE LAW.
  8. CTDOT DESIGN STANDARD USE THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) SEE ENGINEERING DIRECTIVE ED-2019-7.
  9. CURB RAMPS SHALL BE CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE WITHIN THE PEDESTRIAN ACCESS ROUTE.



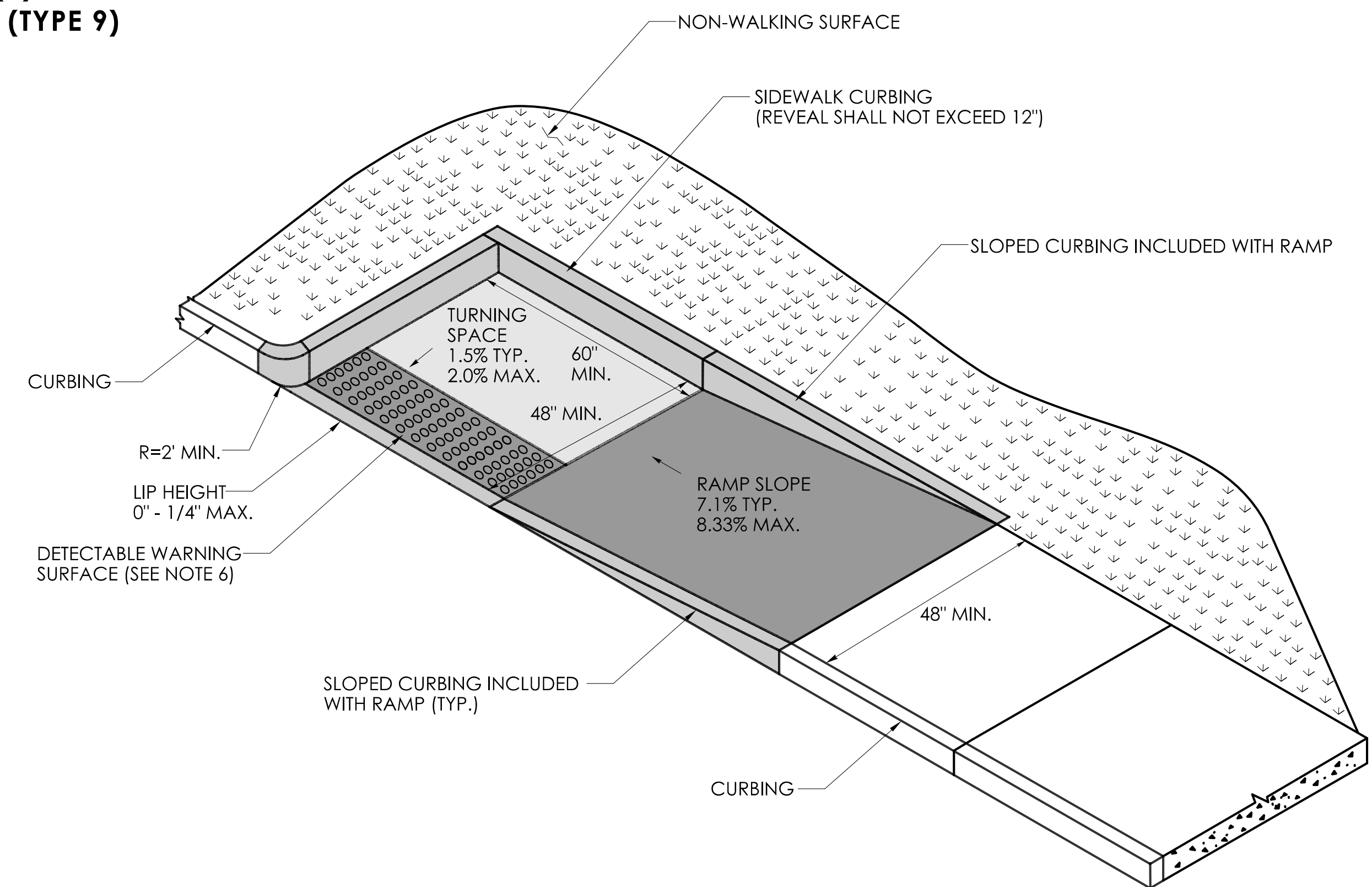
**PERPENDICULAR RAMP WITH 48" BY-PASS (TYPE 8)**



**PARALLEL RAMP WITH TURNING SPACE CONSTRAINED ON TWO (2) OR MORE SIDES (TYPE 9)**



**PARALLEL RAMP WITH TURNING SPACE CONSTRAINED ON ONE SIDE (TYPE 10a)**

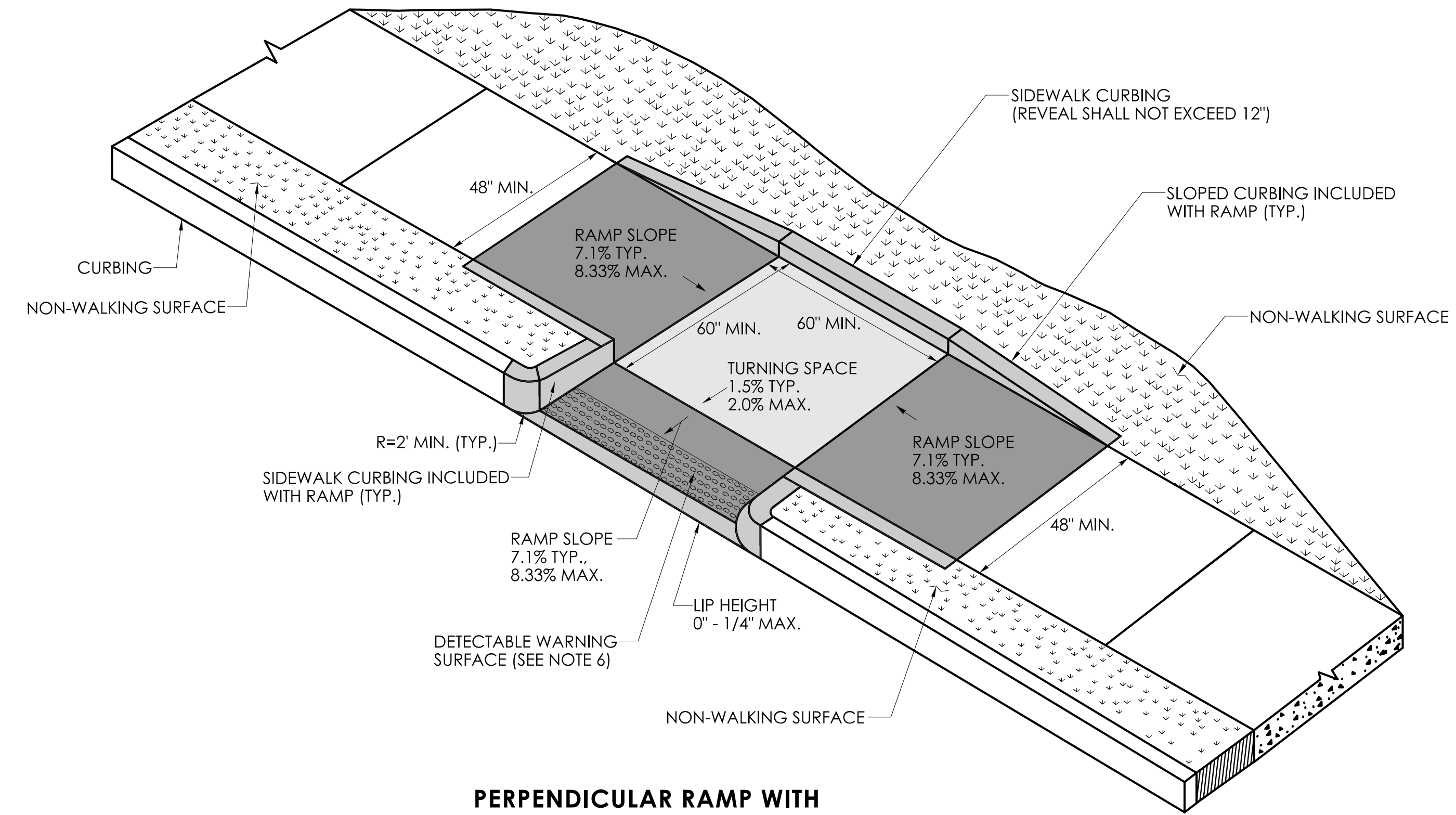


**PARALLEL RAMP WITH TURNING SPACE CONSTRAINED ON TWO (2) OR MORE SIDES (TYPE 10b)**

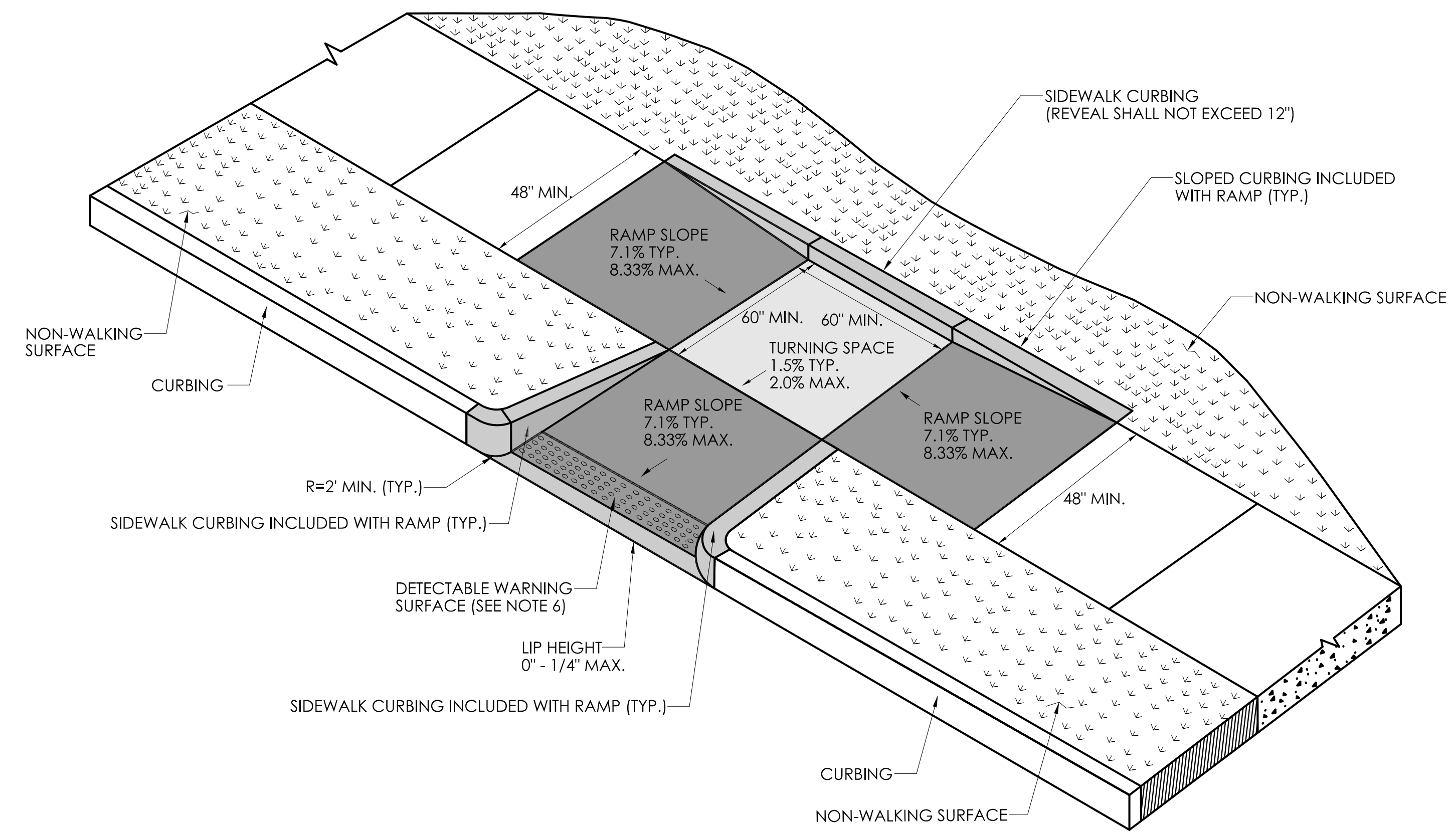
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**GENERAL NOTES:**

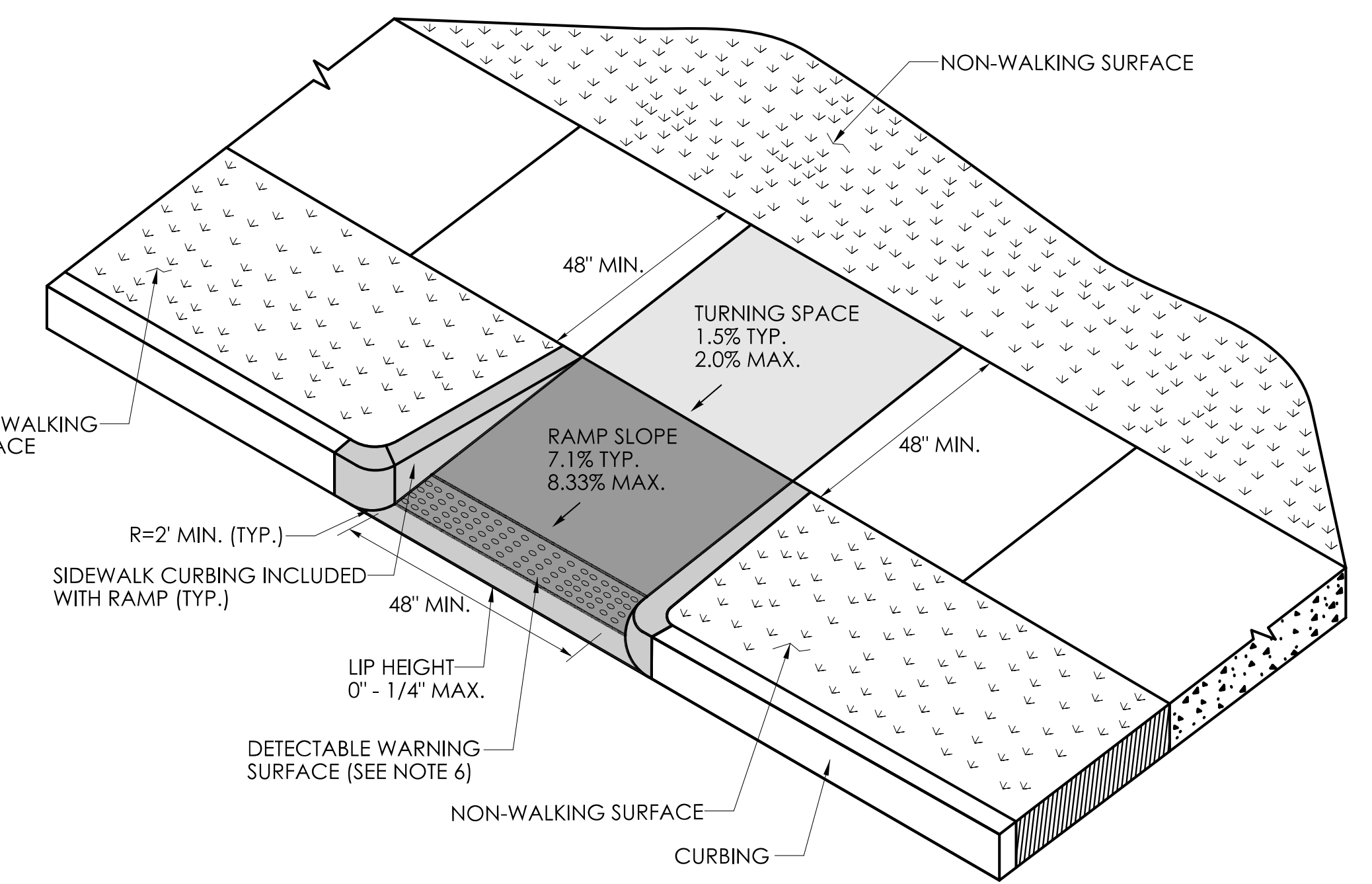
1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.33 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.
5. DETECTABLE WARNING SURFACES SHALL BE INSTALLED ON SIDEWALK RAMPS AT PEDESTRIAN STREET CROSSINGS, PEDESTRIAN REFUGE ISLANDS AND RAILROAD CROSSINGS ALONG STREETS OR HIGHWAYS.
6. DETECTABLE WARNING SURFACES SHALL EXTEND 2 FEET MIN. IN THE DIRECTION OF PEDESTRIAN TRAVEL AND SPAN THE ENTIRE RAMP OPENING.
7. ALL GUIDESHEET VALUES COMPLY WITH PROWAG DRAFT 2013 GUIDELINES. UPDATED VALUES WILL BE MADE TO COMPLY WITH PROWAG FINAL RULE ONCE OFFICIALLY THE LAW.
8. CTDOT DESIGN STANDARD USE THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) SEE ENGINEERING DIRECTIVE ED-2019-7.
9. CURB RAMPS SHALL BE CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE WITHIN THE PEDESTRIAN ACCESS ROUTE.



**PERPENDICULAR RAMP WITH NON-WALKING SURFACE (TYPE 11)**



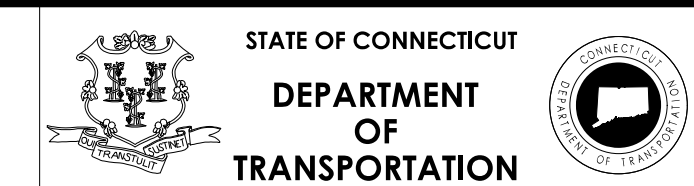
**PERPENDICULAR RAMP WITH SIDEWALK CURB AND NON-WALKING SURFACE (TYPE 12)**



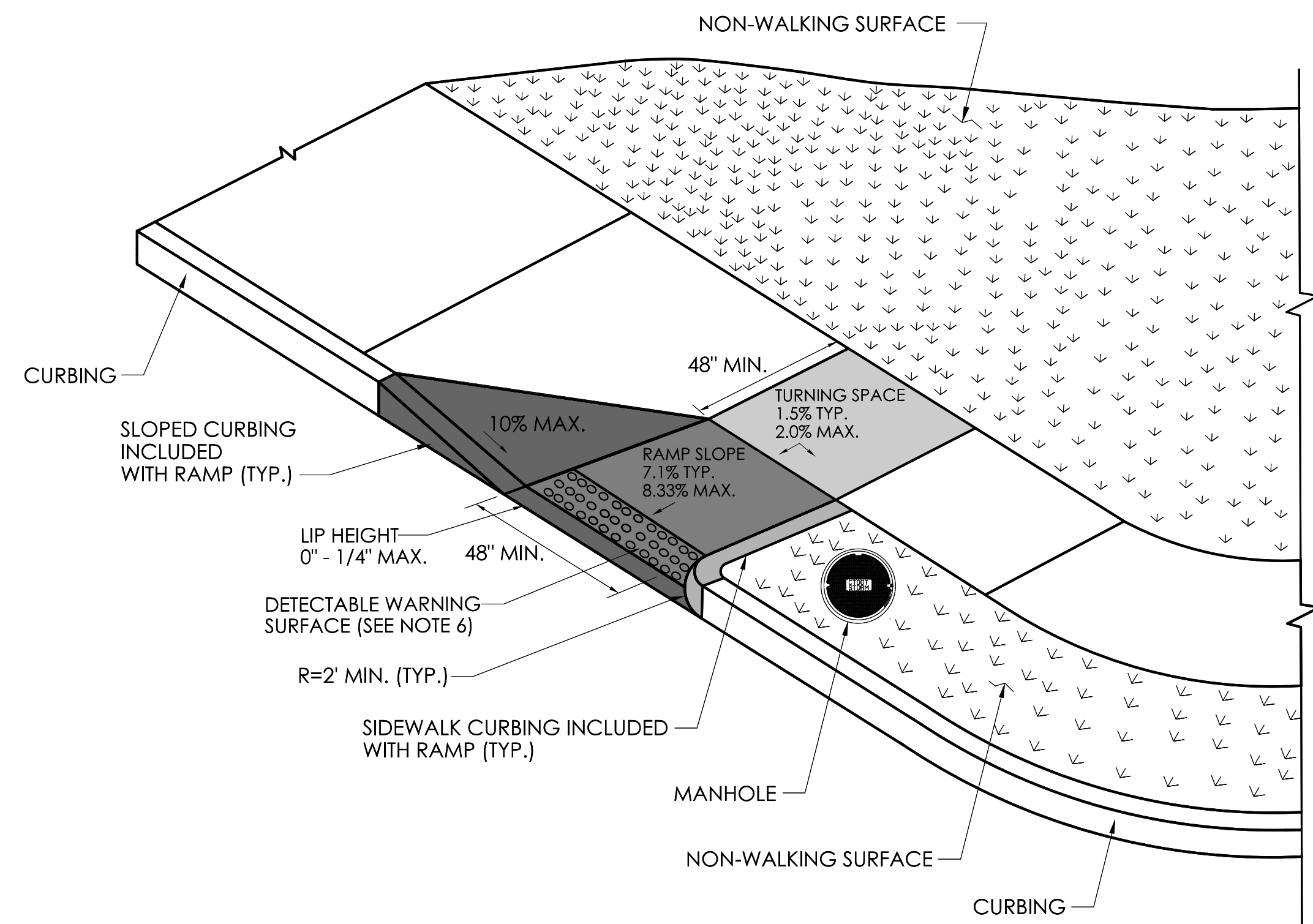
**PERPENDICULAR RAMP WITH NON-WALKING SURFACE (TYPE 13)**

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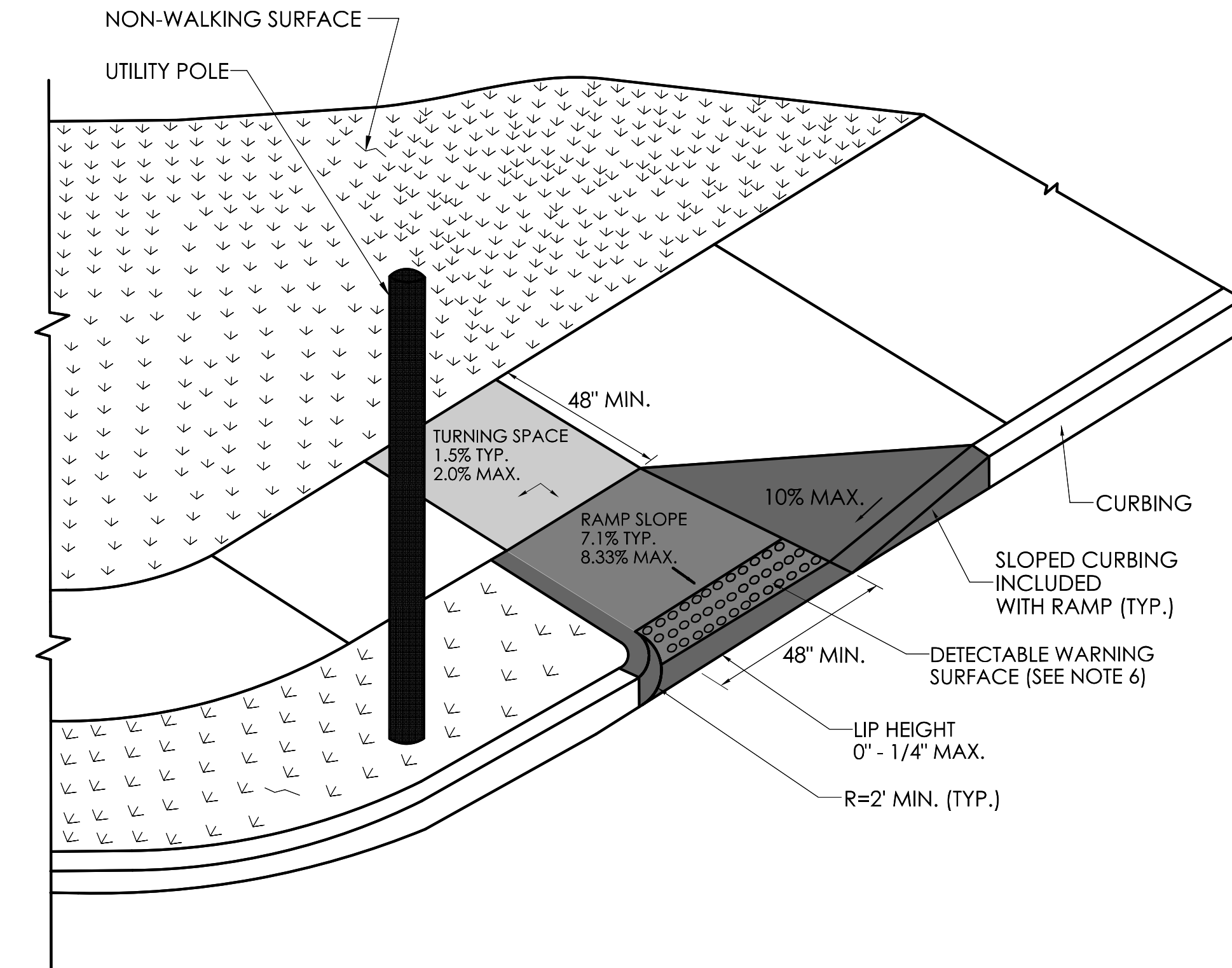
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|                   |             |                  |              | TOWN(S): SAMPLE TOWN(S)                              | SHEET NO.   |
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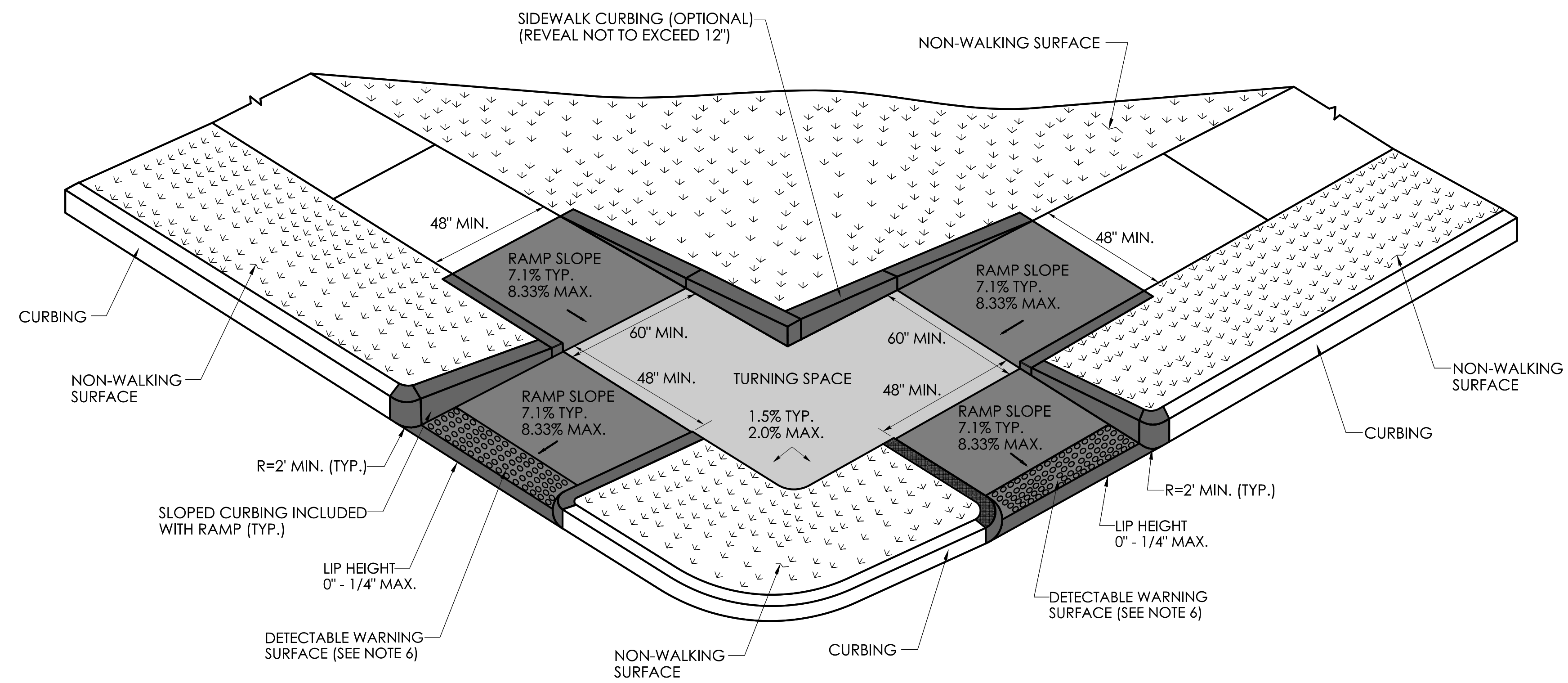




**PERPENDICULAR RAMP  
WITH NON-WALKING SURFACE  
(TYPE 18 LEFT)**



**PERPENDICULAR RAMP  
WITH NON-WALKING SURFACE  
(TYPE 18 RIGHT)**



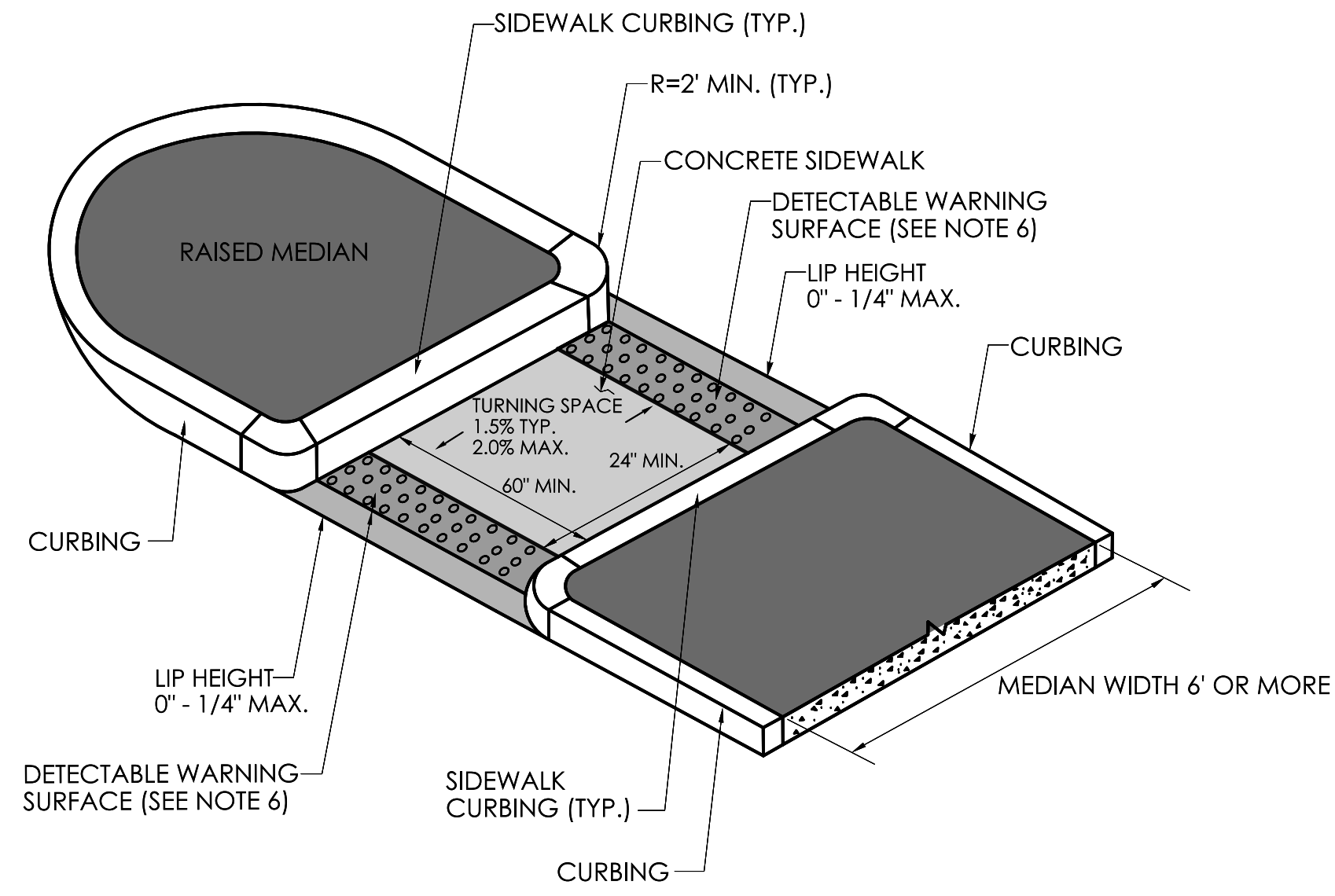
**PERPENDICULAR RAMP  
WITH NON-WALKING SURFACE  
(TYPE 19)**

**GENERAL NOTES:**

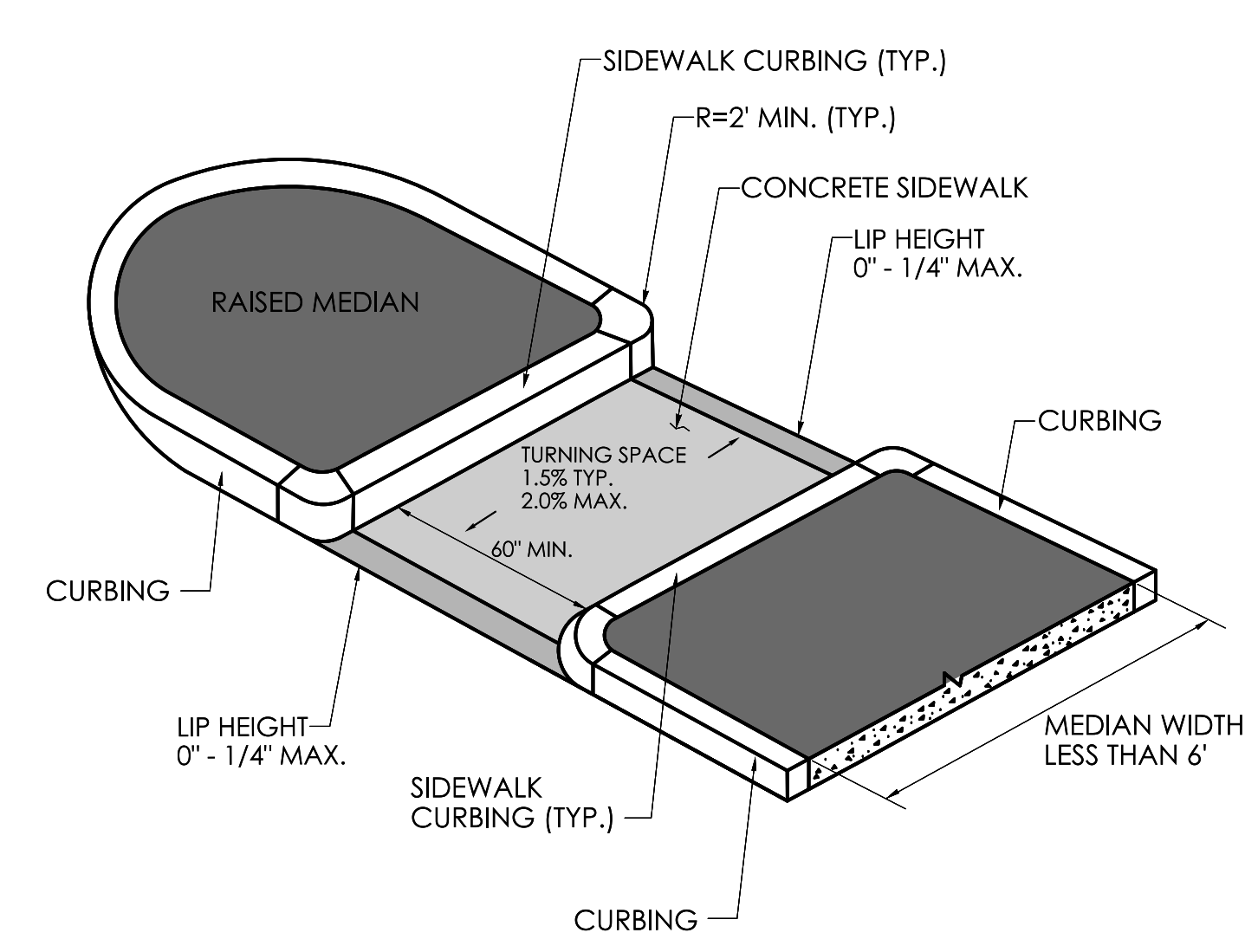
1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.33 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.
5. DETECTABLE WARNING SURFACES SHALL BE INSTALLED ON SIDEWALK RAMPS AT PEDESTRIAN STREET CROSSINGS, PEDESTRIAN REFUGE ISLANDS AND RAILROAD CROSSINGS ALONG STREETS OR HIGHWAYS.
6. DETECTABLE WARNING SURFACES SHALL EXTEND 2 FEET MIN. IN THE DIRECTION OF PEDESTRIAN TRAVEL AND SPAN THE ENTIRE RAMP OPENING.
7. ALL GUIDESHEET VALUES COMPLY WITH PROWAG DRAFT 2013 GUIDELINES. UPDATED VALUES WILL BE MADE TO COMPLY WITH PROWAG FINAL RULE ONCE OFFICIALLY THE LAW.
8. CTDOT DESIGN STANDARD USE THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) SEE ENGINEERING DIRECTIVE ED-2019-7.
9. CURB RAMPS SHALL BE CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE WITHIN THE PEDESTRIAN ACCESS ROUTE.

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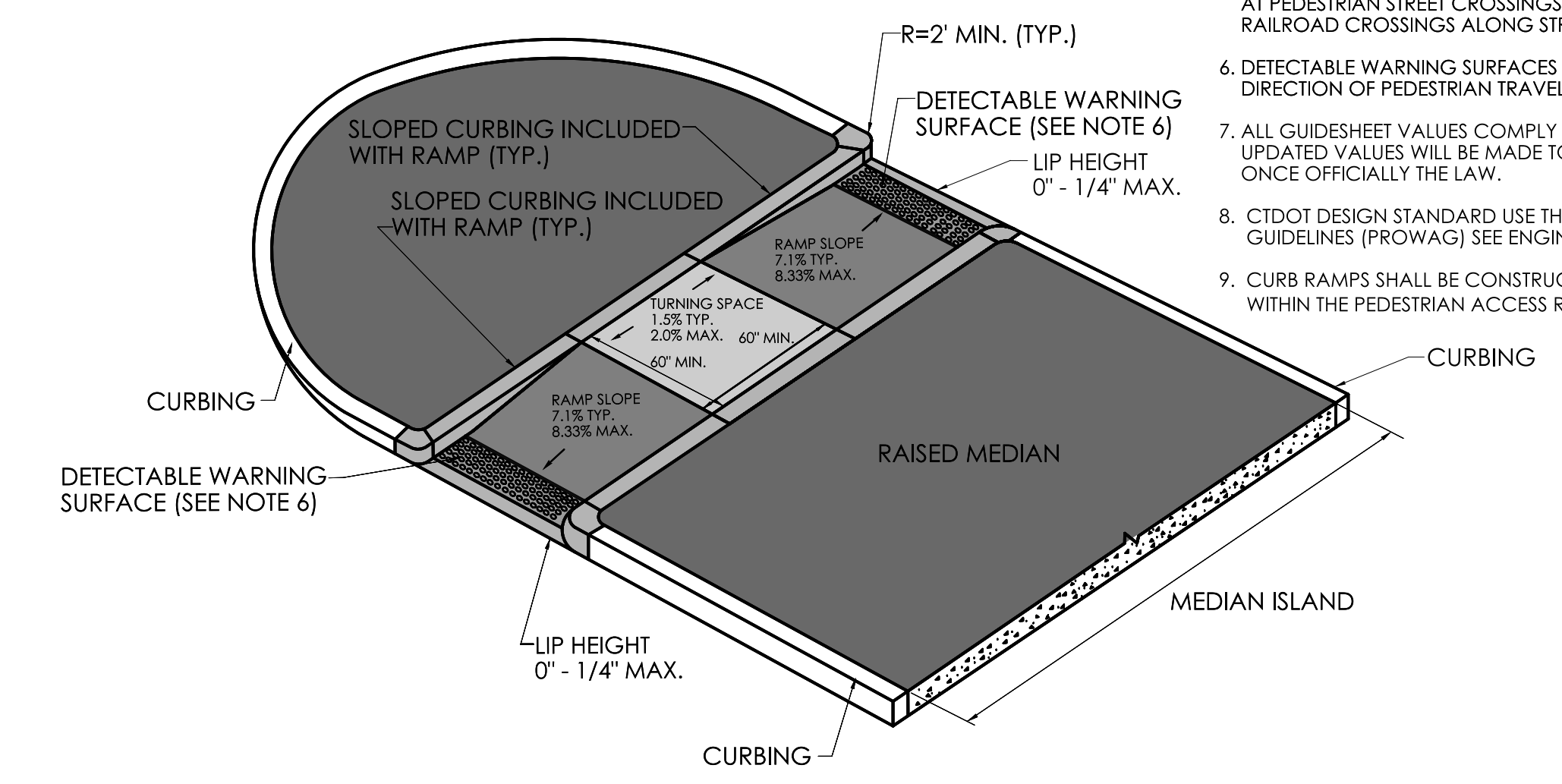
- GENERAL NOTES:**
- SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
  - VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
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  - DETECTABLE WARNING SURFACES SHALL BE INSTALLED ON SIDEWALK RAMPS AT PEDESTRIAN STREET CROSSINGS, PEDESTRIAN REFUGE ISLANDS AND RAILROAD CROSSINGS ALONG STREETS OR HIGHWAYS.
  - DETECTABLE WARNING SURFACES SHALL EXTEND 2 FEET MIN. IN THE DIRECTION OF PEDESTRIAN TRAVEL AND SPAN THE ENTIRE RAMP OPENING.
  - ALL GUIDESHEET VALUES COMPLY WITH PROWAG DRAFT 2013 GUIDELINES. UPDATED VALUES WILL BE MADE TO COMPLY WITH PROWAG FINAL RULE ONCE OFFICIALLY THE LAW.
  - CTDOT DESIGN STANDARD USE THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) SEE ENGINEERING DIRECTIVE ED-2019-7.
  - CURB RAMPS SHALL BE CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE WITHIN THE PEDESTRIAN ACCESS ROUTE.



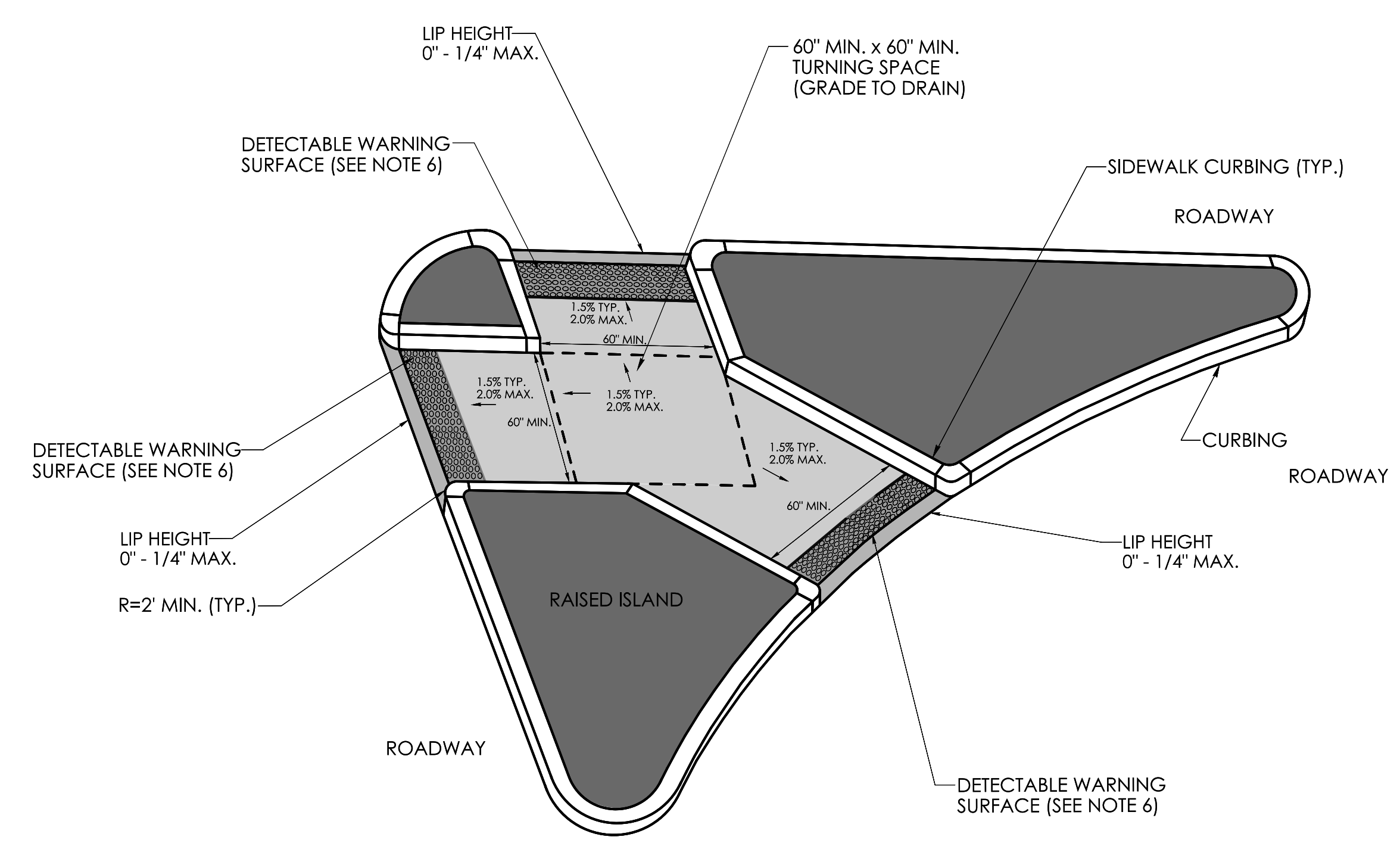
**CUT-THROUGH PEDESTRIAN REFUGE ISLAND  
MEDIAN WIDTH 6' OR MORE  
(TYPE 22)**



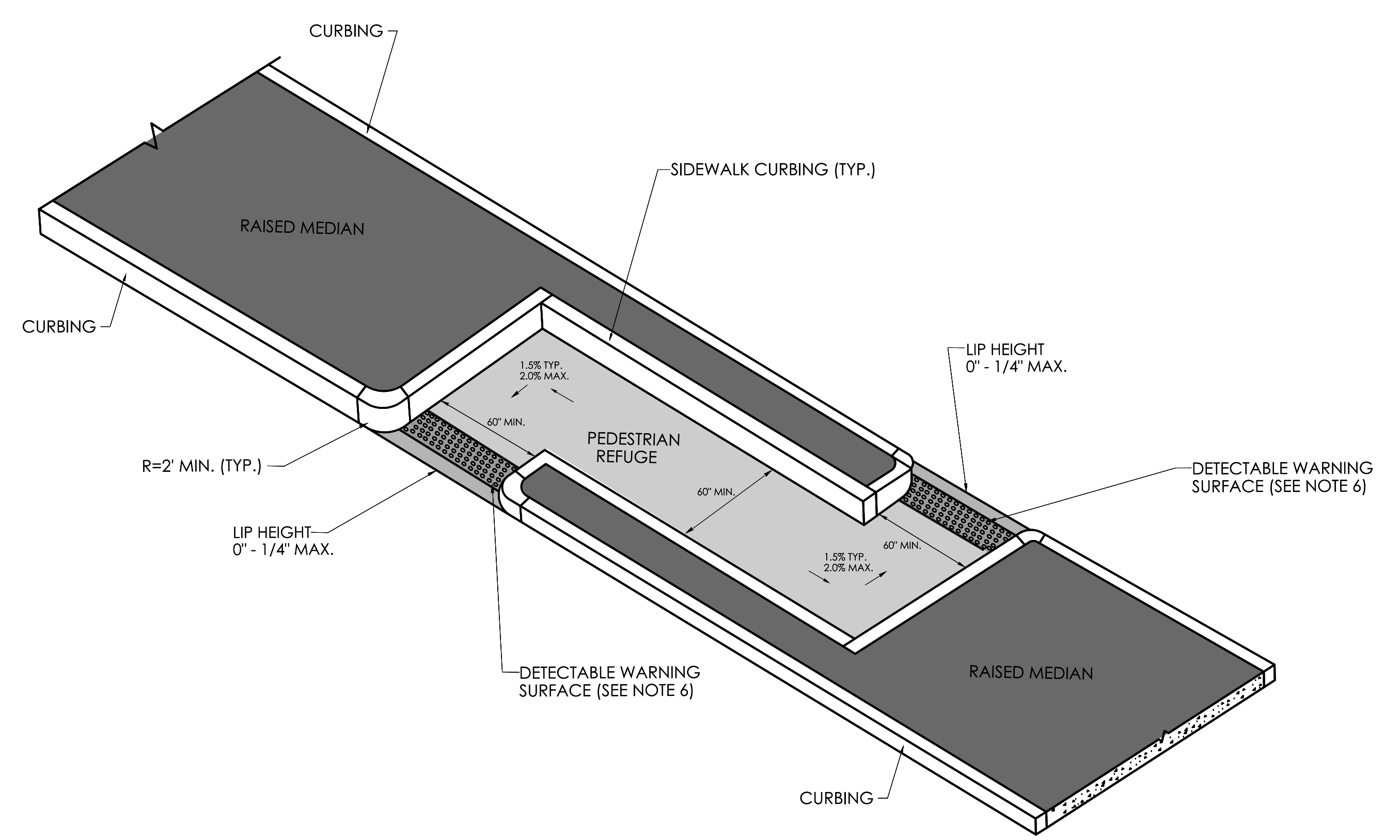
**CUT-THROUGH PEDESTRIAN REFUGE ISLAND  
MEDIAN WIDTH LESS THAN 6'  
(TYPE 23)**



**PEDESTRIAN REFUGE ISLAND WITH LANDING AND RAMPS  
(TYPE 24)**



**CUT-THROUGH PEDESTRIAN REFUGE ISLAND  
(TYPE 25)**



**CUT-THROUGH PEDESTRIAN REFUGE ISLAND  
OFFSET CONFIGURATION  
(TYPE 26)**

| REV. | DATE | REVISION DESCRIPTION |
|------|------|----------------------|
|      |      |                      |
|      |      |                      |
|      |      |                      |



