

CONSTRUCTION DRAWINGS
FOR
CURB AND SIDEWALK REPLACEMENT PROJECT
CONTRACT 1
BOROUGH OF EBENSBURG
CAMBRIA COUNTY, PENNSYLVANIA
 PREPARED FOR THE
THE BOROUGH OF EBENSBURG
CAMBRIA COUNTY, PENNSYLVANIA

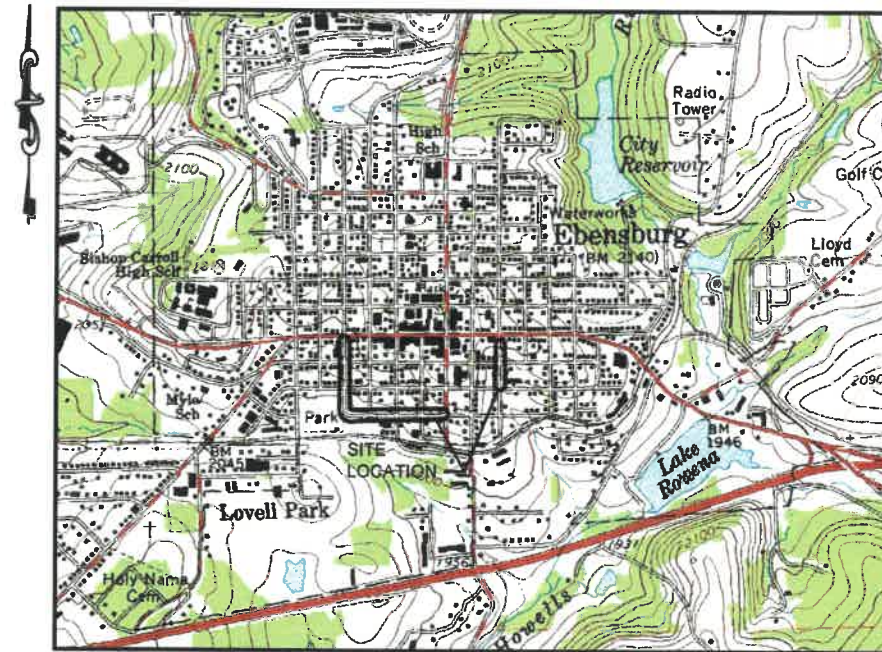


615 West Highland Ave.
 Ebensburg, Pa. 15931
 phone (814) 472-7700
 fax (814) 472-7712
 web site www.kimball.com

CONSULTANTS:

PROJECT NAME:
BOROUGH
OF EBENSBURG
CURB AND SIDEWALK
REPLACEMENT
 BOROUGH OF EBENSBURG
 CAMBRIA COUNTY, STATE
 OWNER:

BOROUGH OF
EBENSBURG
 300 WEST HIGH STREET
 EBENSBURG, PA 15931



PORTION OF USGS MAP 7.5 MINUTE EBENSBURG QUAD

PROJECT VICINITY MAP

1"=2000'

SHEET INDEX

- C0.00 COVER AND SITE LOCATION MAP**
- C1.01 INDEX MAP**
- C1.02 CAROLINE STREET - OGLE TO LLOYD STS**
- C1.03 CAROLINE STREET - LLOYD TO HIGH STS**
- C1.04 MARIAN STREET - OGLE TO HIGH STREETS**
- C1.05 MARIAN/TRIUMPH STREETS - OGLE TO BEECH STS**
- C1.06 TRIUMPH STREET - BEECH TO CHERRY STS**
- C1.07 TRIUMPH STREET - CHERRY TO CENTER STS**
- C1.11 E&S CONTROL PLAN INDEX SHEET**
- C1.12 E&S CONTROL PLAN - CAROLINE STREET**
- C1.13 E&S CONTROL PLAN - MARIAN STREET**
- C1.14 E&S CONTROL PLAN - TRIUMPH STREET**
- C1.15 E&S CONTROL PLAN - NOTES**
- C1.16 E&S CONTROL PLAN - DETAILS**
- RC-67 CURB RAMPS AND SIDEWALKS (14 SHEETS)**
- PENNDOT ROADWAY CONSTRUCTION STANDARDS**



REV.	DATE	DESCRIPTION
	1/14/2019	ISSUE
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SHEET TITLE

COVER AND SITE
LOCATION MAP

C0.00

PREPARED BY:
CDI CORP/L.R. KIMBALL
 EBENSBURG, PA - JANUARY 2019

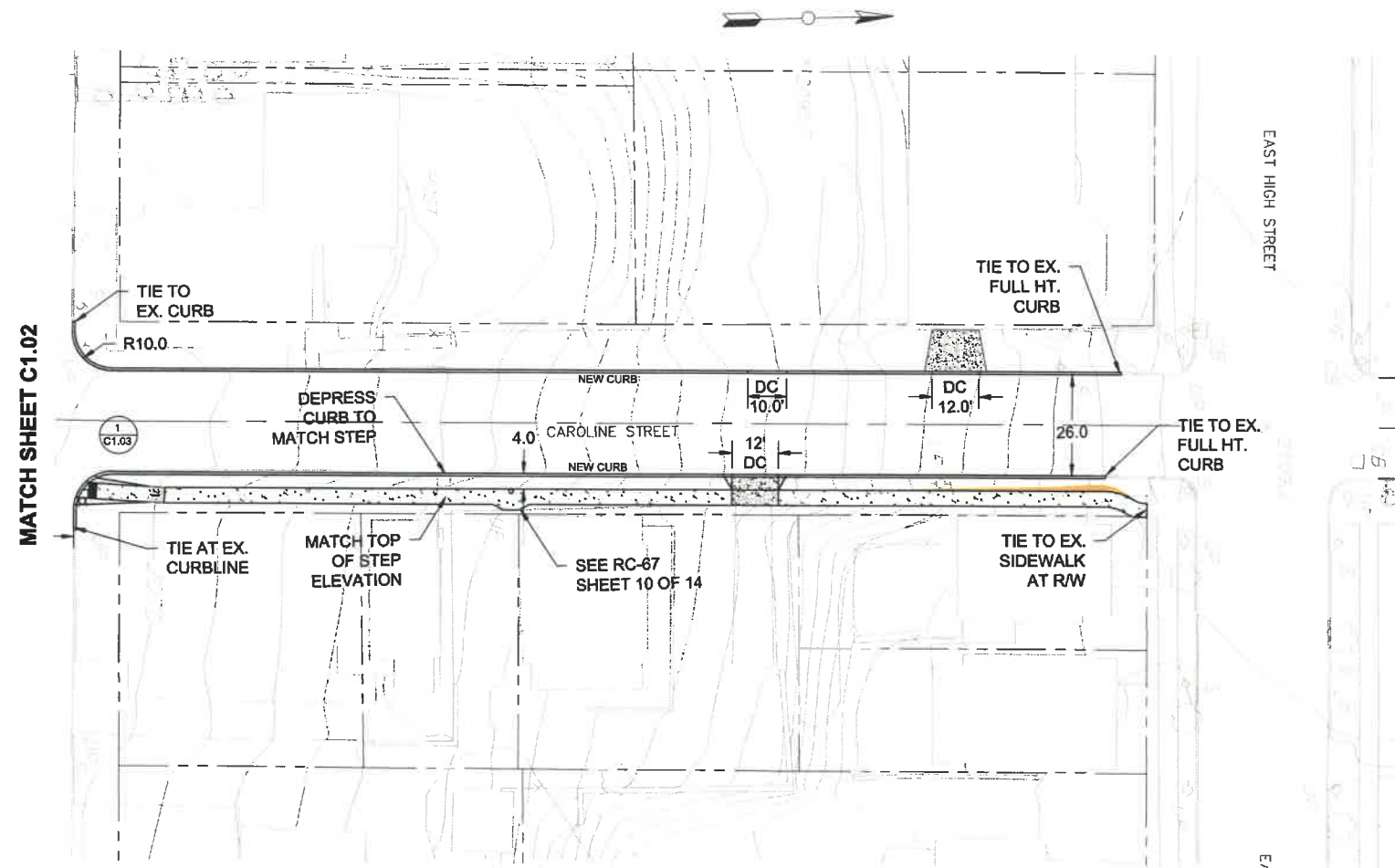
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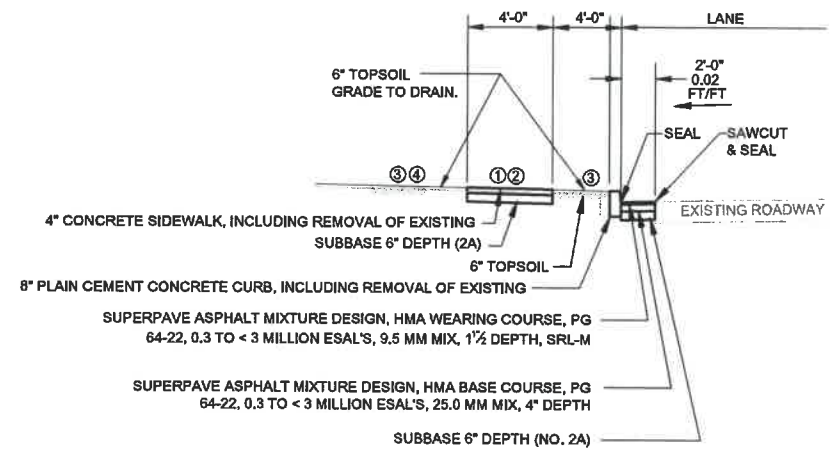
BOROUGH OF EBENSBURG CURB AND SIDEWALK REPLACEMENT

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CAMBRIA COUNTY, STATE
OWNER:

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300 WEST HIGH STREET
EBENSBURG, PA 15931



MATCH SHEET C1.02

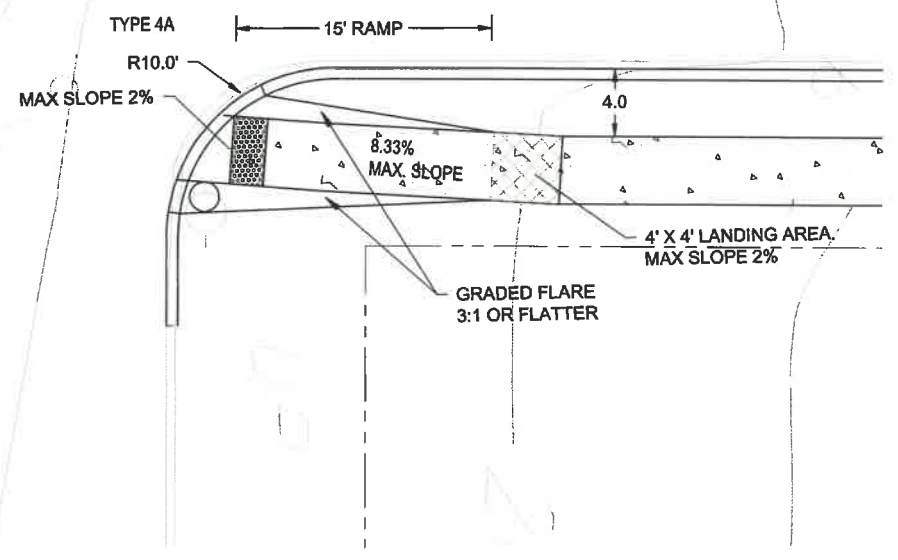


TYPICAL SIDEWALK SECTION, WEST SIDE

NOTES

1. CONSTRUCT SIDEWALK WITH A 2% CROSS SLOPE. SLOPE DIRECTION SUBJECT TO SITE TOPOGRAPHY.
2. USE 6" THICKNESS WITHIN LIMITS OF DRIVEWAYS AND THEIR ASSOCIATED APRONS AND TRANSITIONS.
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6. CONTRACTOR RESPONSIBLE FOR FURNISHING ADDITIONAL EARTHWORK AND TOPSOIL AS NECESSARY FOR THE GRADING OPERATION.

TYPICAL SIDEWALK SECTION, EAST SIDE



RAMP DETAIL - CAROLINE/LLOYD NE

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SHEET TITLE

CONTRACT 1
CAROLINE STREET

C1.03

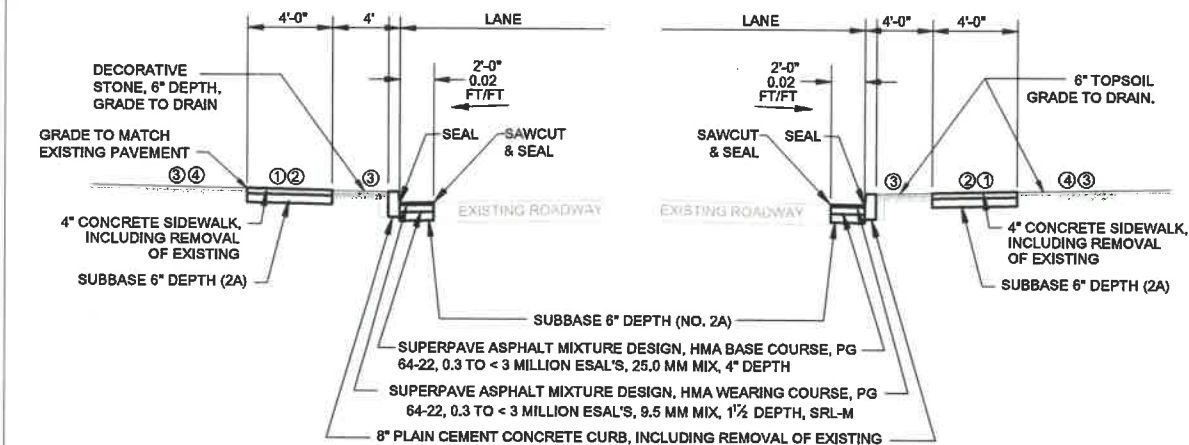
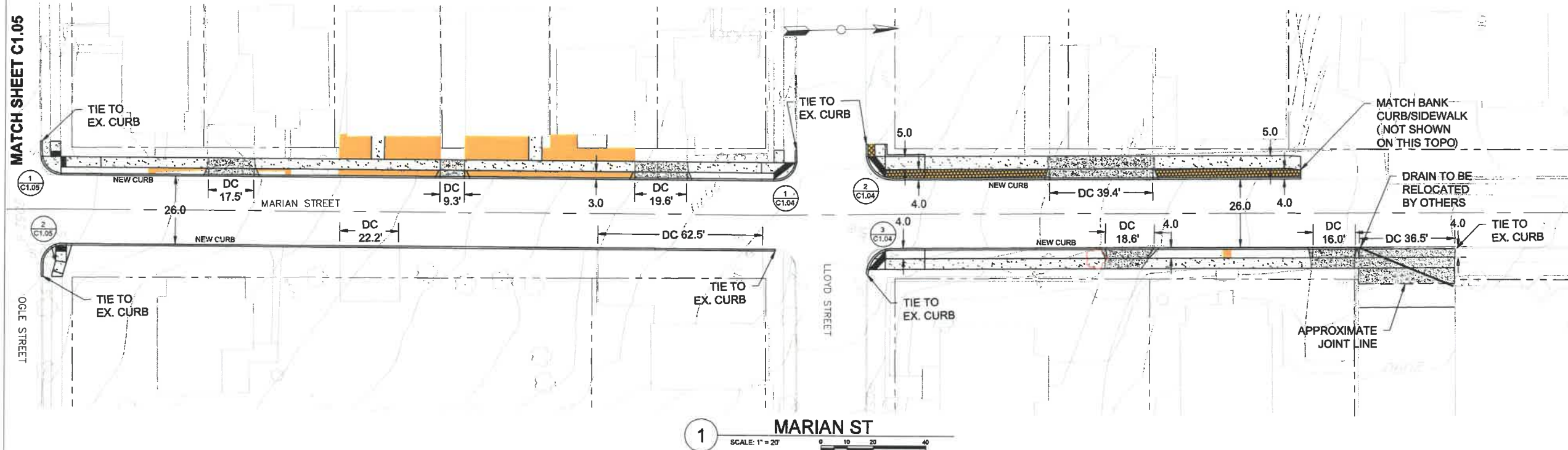
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CURB AND SIDEWALK
REPLACEMENT**

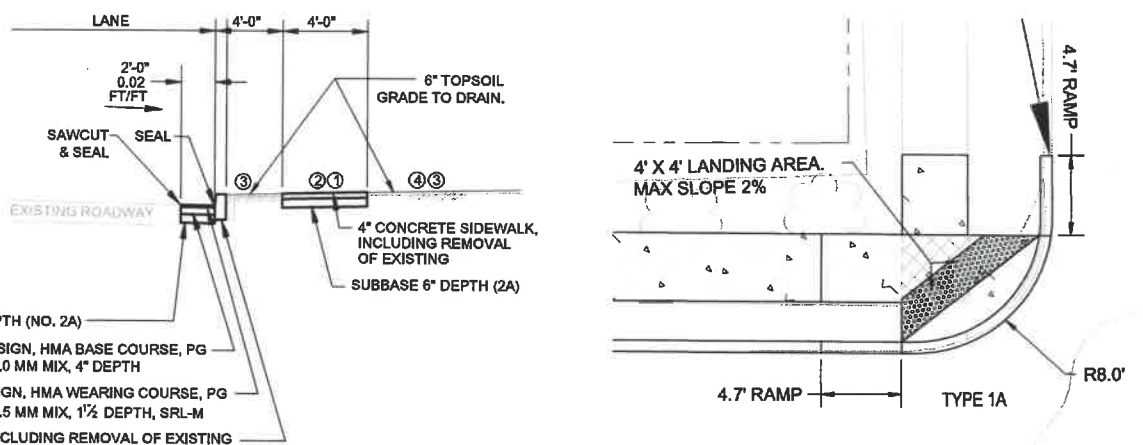
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OWNER:

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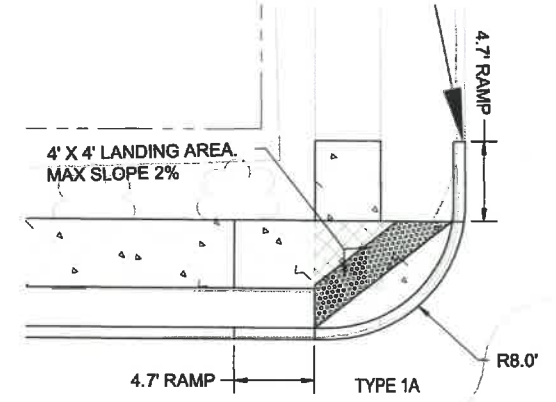
MATCH SHEET C1.05



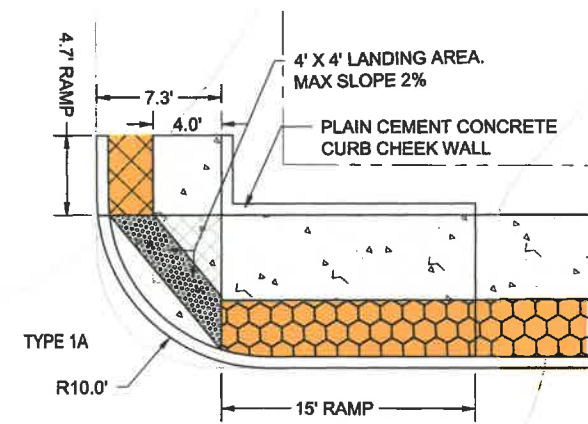
TYPICAL SIDEWALK SECTION, WEST SIDE
LLOYD TO HIGH



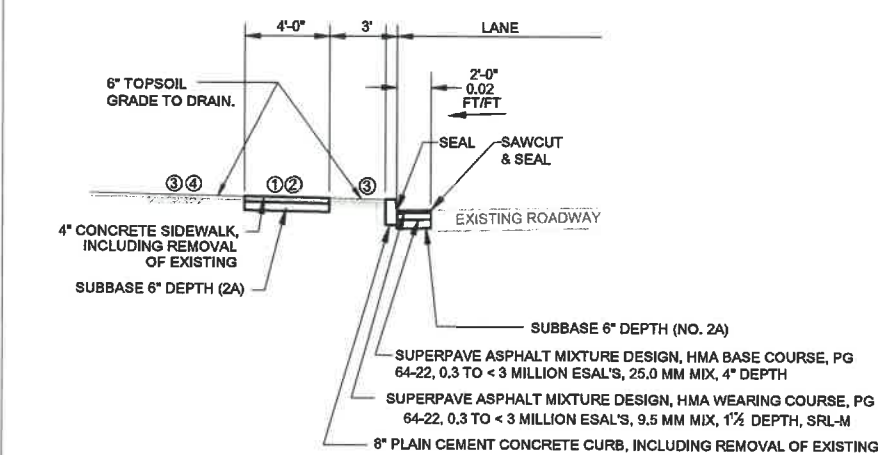
TYPICAL SIDEWALK SECTION, EAST SIDE
LLOYD TO HIGH



RAMP DETAIL - MARIAN/LLOYD SW



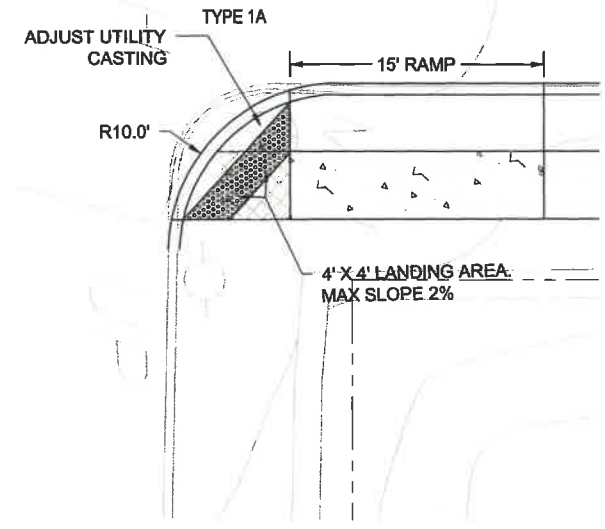
RAMP DETAIL - MARIAN/LLOYD NW



TYPICAL SIDEWALK SECTION, WEST SIDE
OGLE TO LLOYD

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RAMP DETAIL - MARION/LLOYD NE

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SHEET TITLE

CONTRACT 1
MARIAN STREET

C1.04

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CURB AND SIDEWALK
REPLACEMENT**

BOROUGH OF EBENSBURG
CAMBRIA COUNTY, STATE
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EBENSBURG, PA 15931

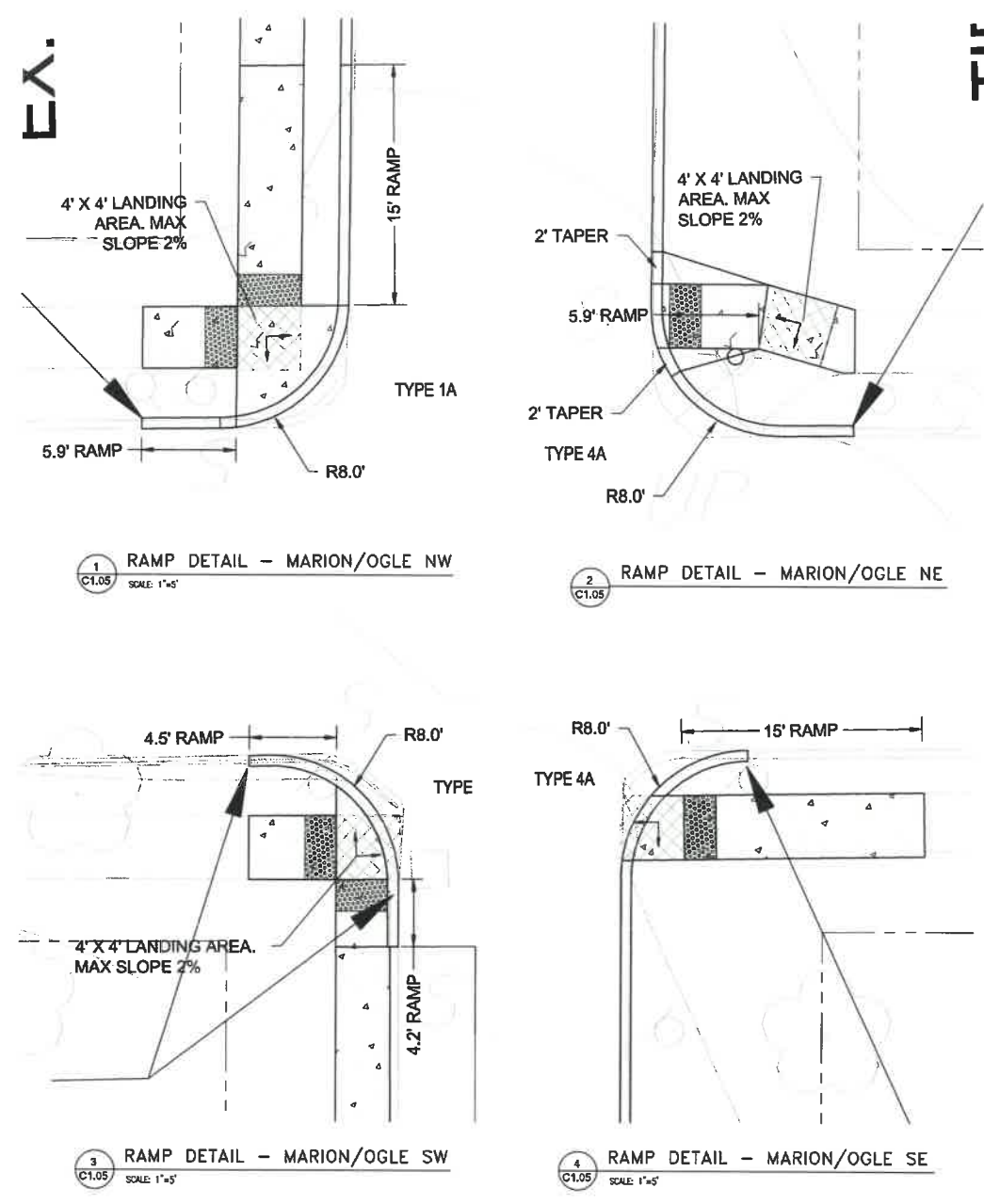
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SHEET TITLE

CONTRACT 1
MARIAN & TRIUMPH STREETS

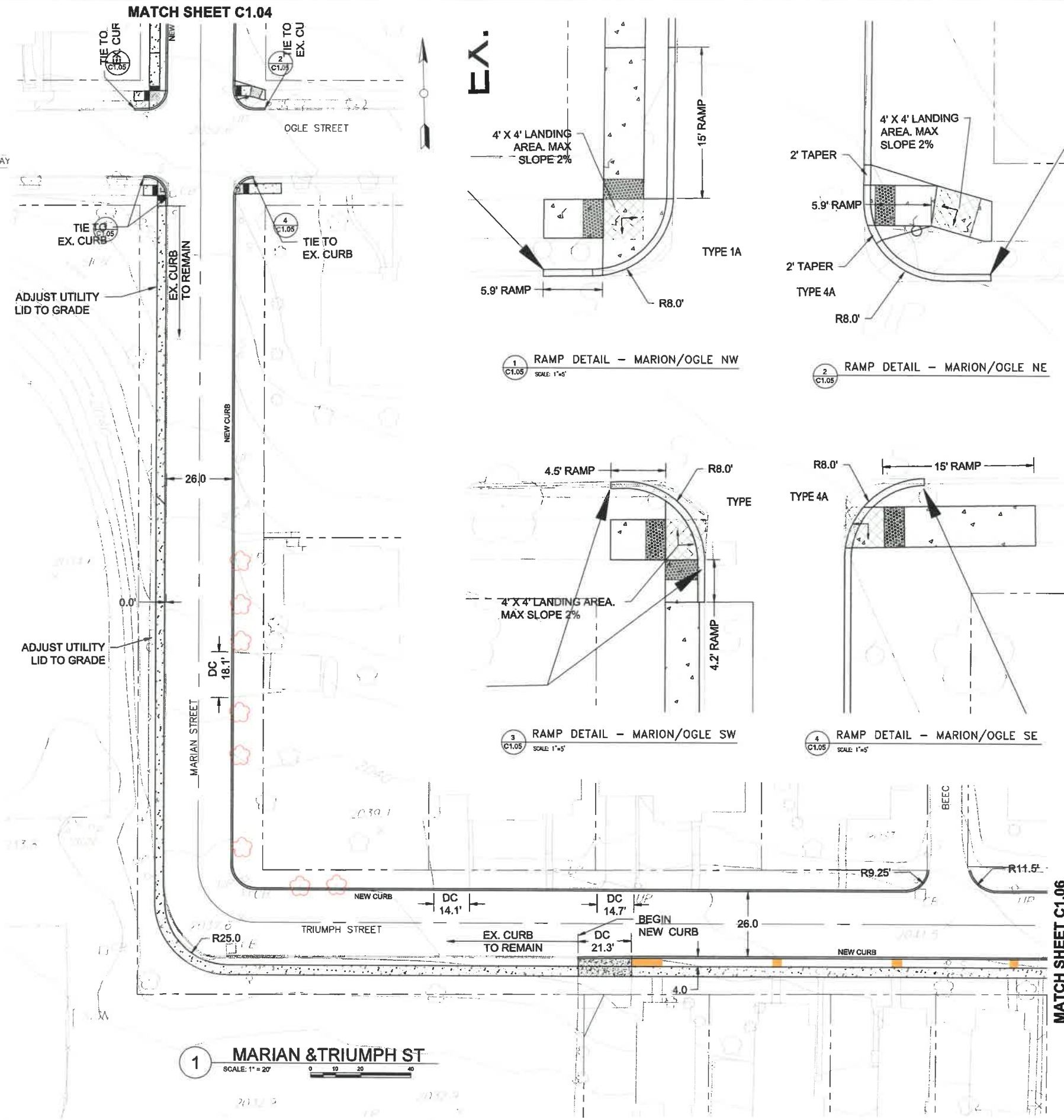
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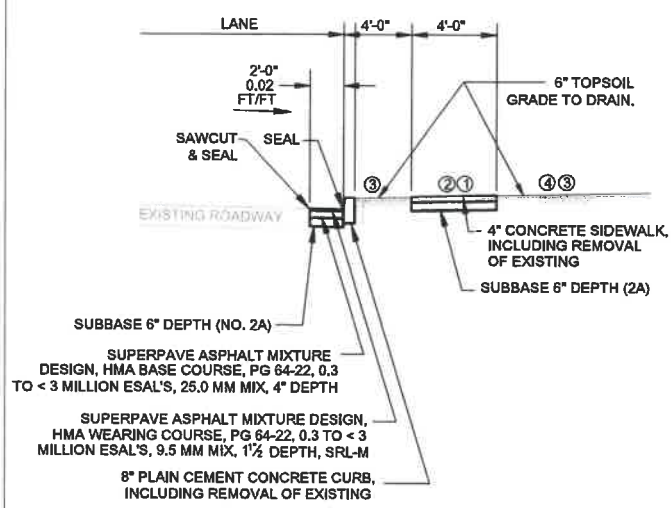
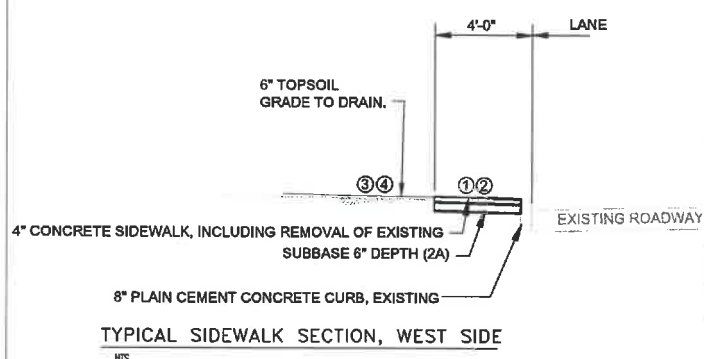
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MATCH SHEET C1.04



1 MARIAN & TRIUMPH ST
SCALE: 1" = 20'

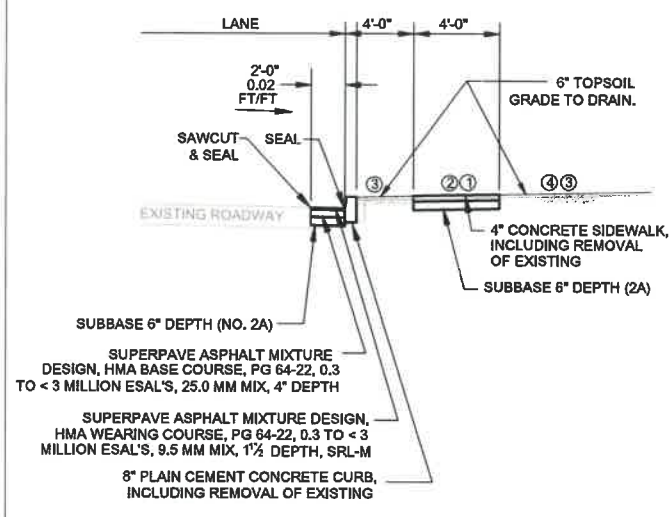
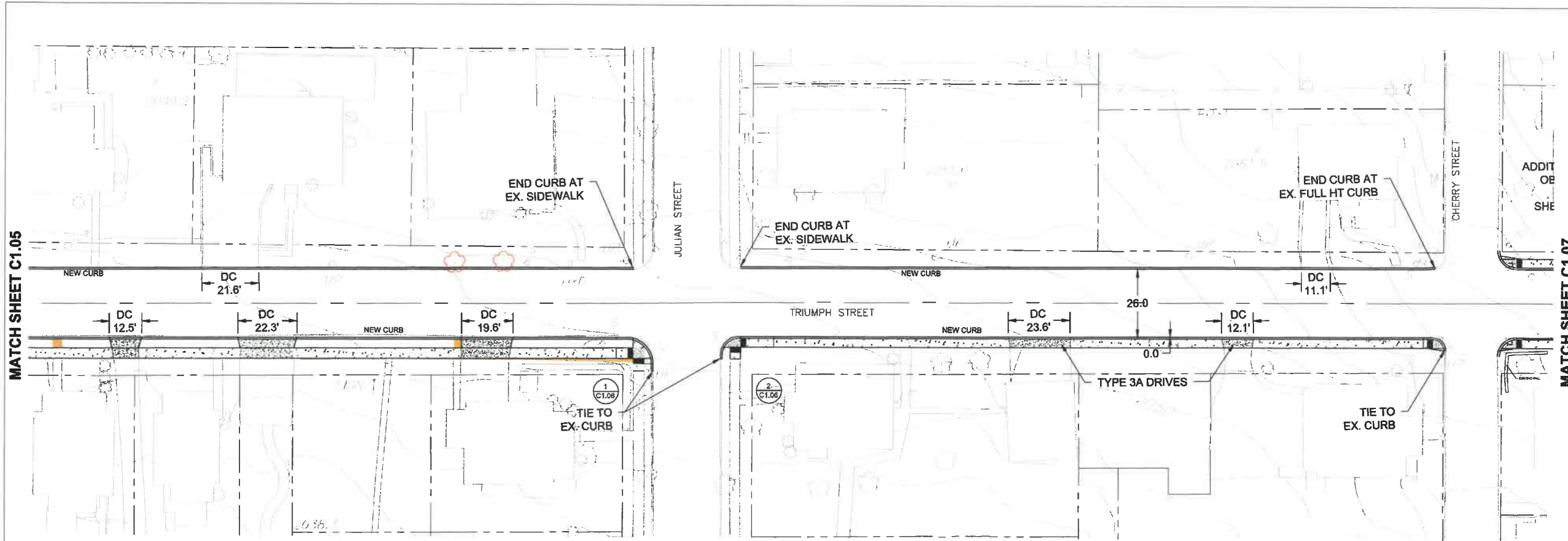
MATCH SHEET C1.06



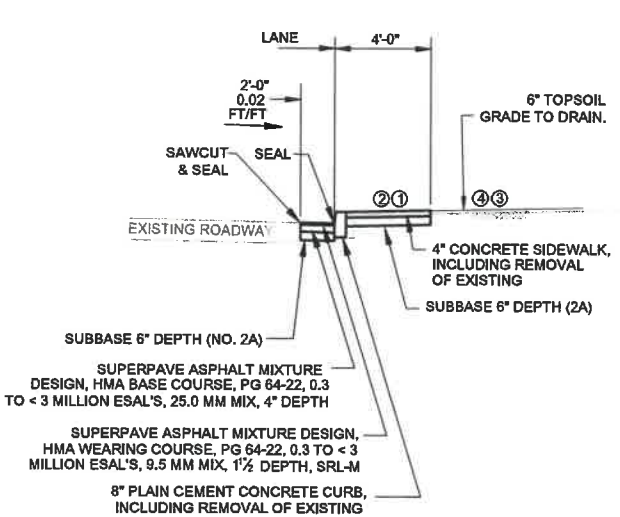
- NOTES**
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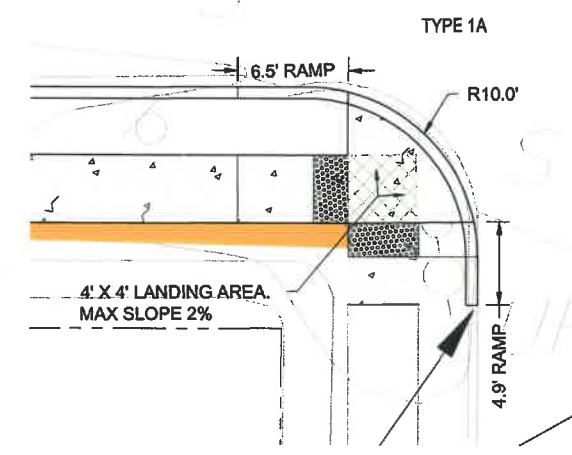
PROJECT NAME:
BOROUGH OF EBENBURG CURB AND SIDEWALK REPLACEMENT
BOROUGH OF EBENBURG
CAMBRIA COUNTY, STATE OWNER:
BOROUGH OF EBENBURG
300 WEST HIGH STREET
EBENBURG, PA 15931



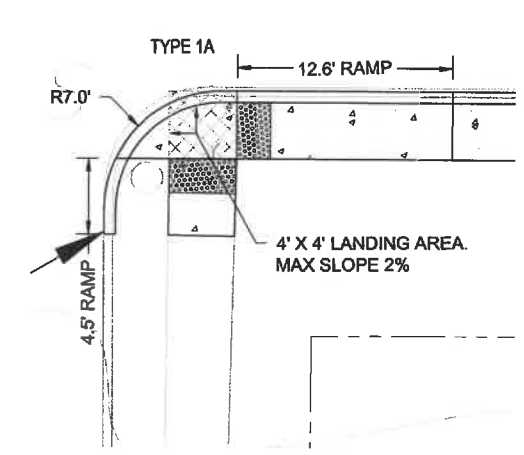
TYPICAL SIDEWALK SECTION, SOUTH SIDE
M/S MARION TO JULIAN



TYPICAL SIDEWALK SECTION, SOUTH SIDE
M/S JULIAN TO CHERRY



1 RAMP DETAIL - TRIUMPH/JULIAN SW
SCALE: 1" = 5'



2 RAMP DETAIL - TRIUMPH/JULIAN SE
SCALE: 1" = 5'

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**CONTRACT 1
TRIUMPH STREET**

C1.06

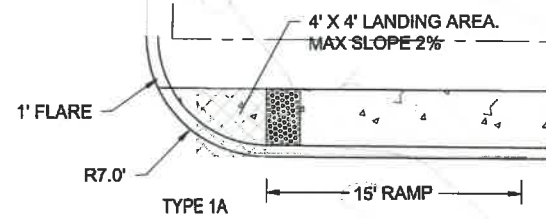
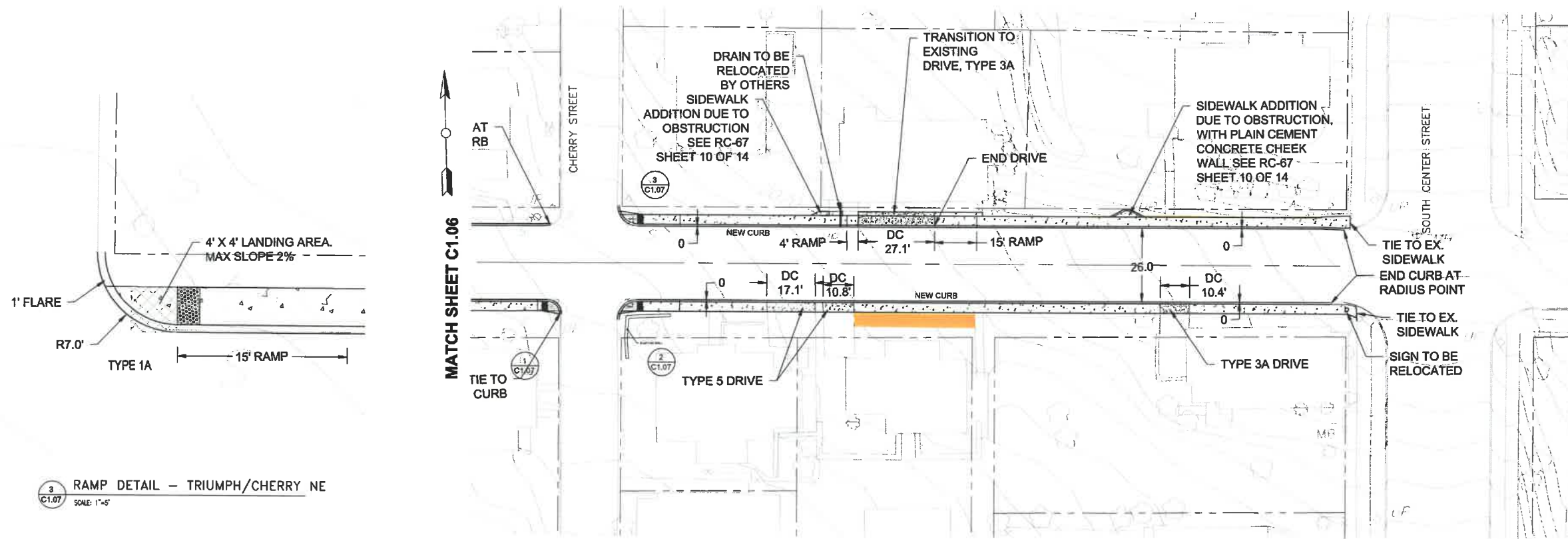
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PROJECT NAME:
BOROUGH OF EBENBURG CURB AND SIDEWALK REPLACEMENT

BOROUGH OF EBENBURG
CAMBRIA COUNTY, STATE
OWNER:

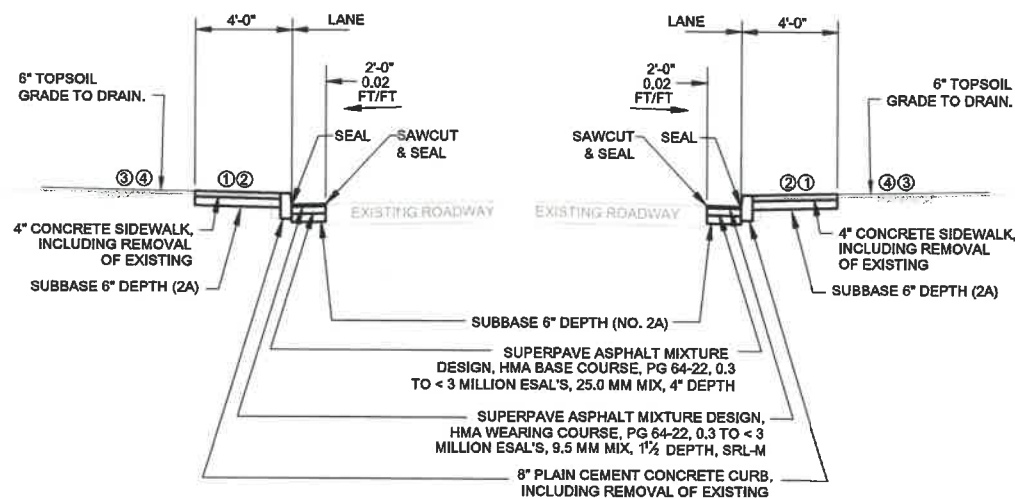
BOROUGH OF EBENBURG

300 WEST HIGH STREET
EBENBURG, PA 15931



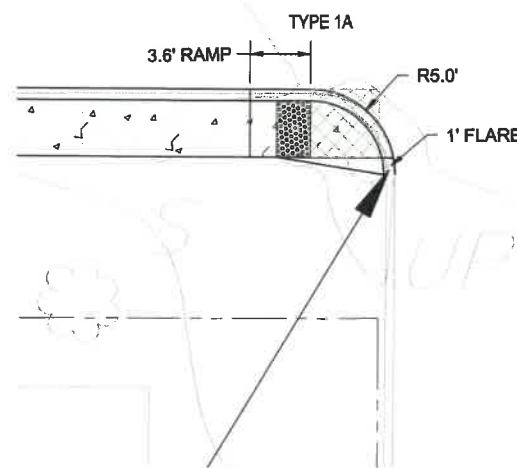
3 RAMP DETAIL - TRIUMPH/CHERRY NE
SCALE: 1"=5'

1 TRIUMPH ST
SCALE: 1"=20'

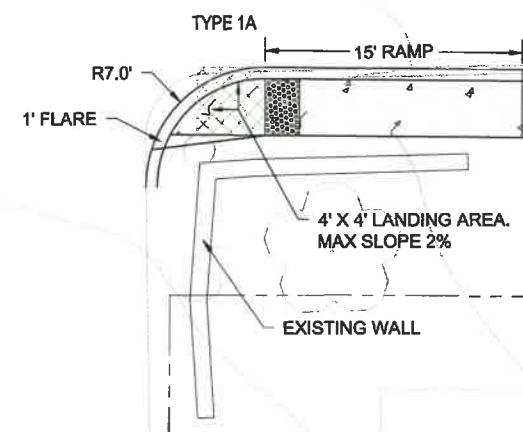


TYPICAL SIDEWALK SECTION, NORTH SIDE

TYPICAL SIDEWALK SECTION, SOUTH SIDE



1 RAMP DETAIL - TRIUMPH/CHERRY SW
SCALE: 1"=5'



2 RAMP DETAIL - TRIUMPH/CHERRY SE
SCALE: 1"=5'

NOTES

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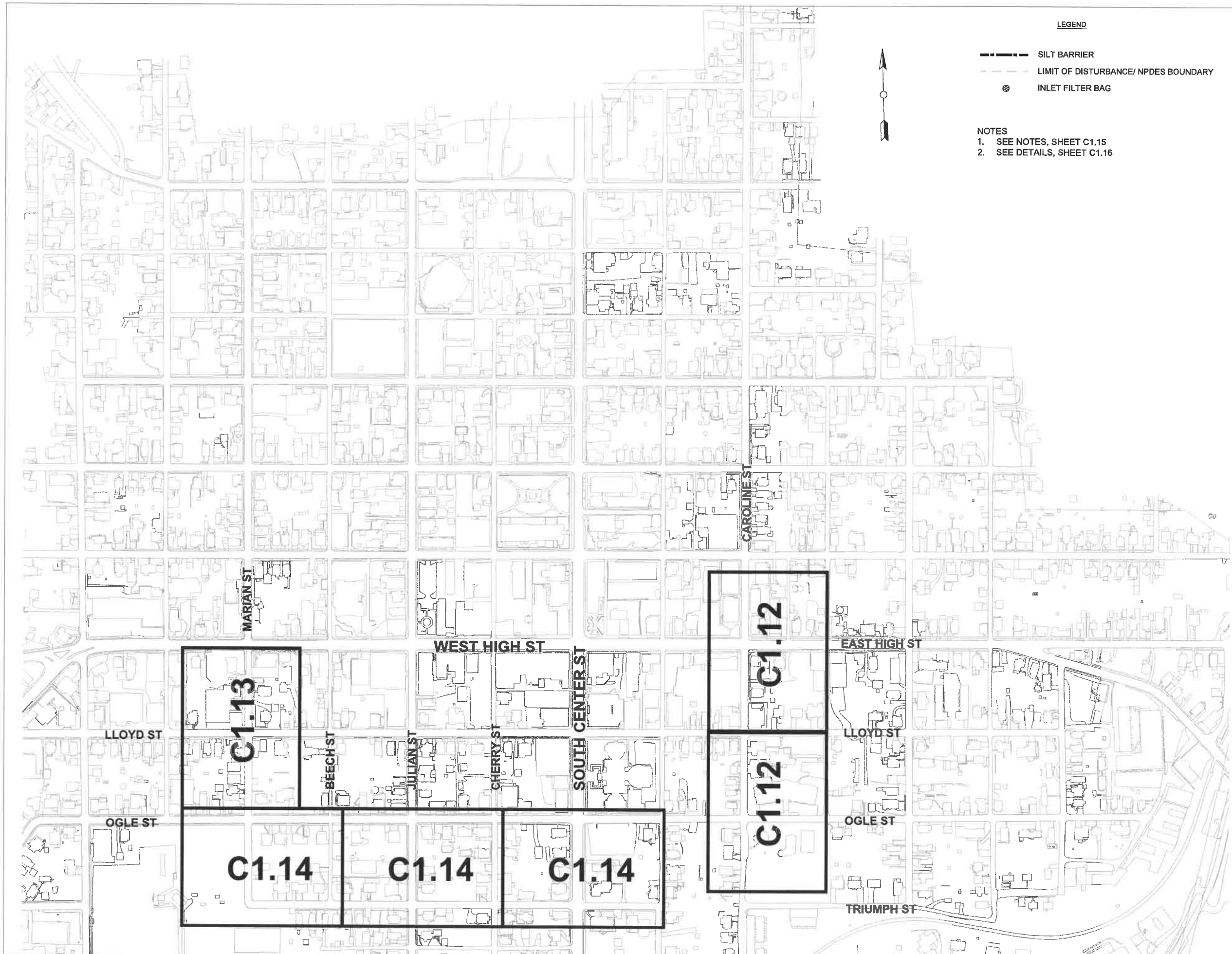
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SHEET TITLE

CONTRACT 1
TRIUMPH STREET

C1.07

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Jun 16, 2018 - 12:41pm



LEGEND

--- SILT BARRIER
 LIMIT OF DISTURBANCE/ NPDES BOUNDARY
 ⊙ INLET FILTER BAG

NOTES

1. SEE NOTES, SHEET C1.15
 2. SEE DETAILS, SHEET C1.16



615 West Highland Ave.
 Ebensburg, Pa. 15931
 phone (814) 472-7700
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 web site www.lrkimball.com

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**CONTRACT 1
 INDEX SHEET
 E & S CONTROL PLAN**

C1.11

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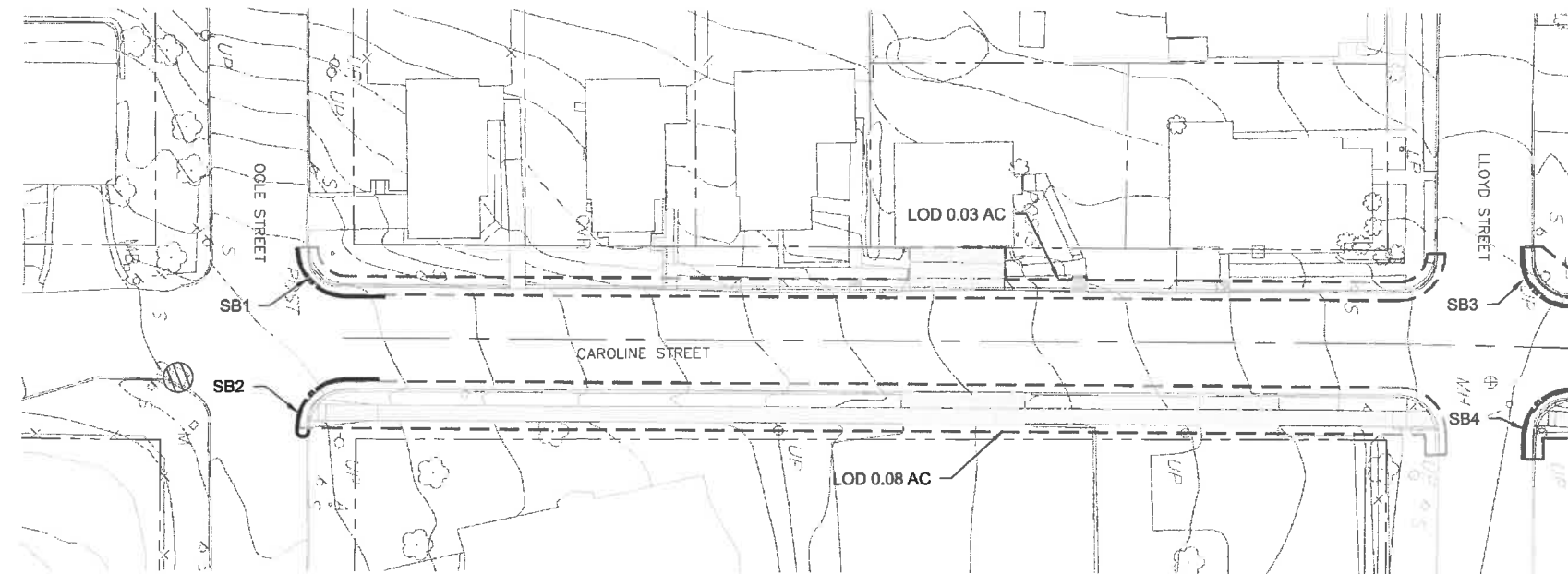
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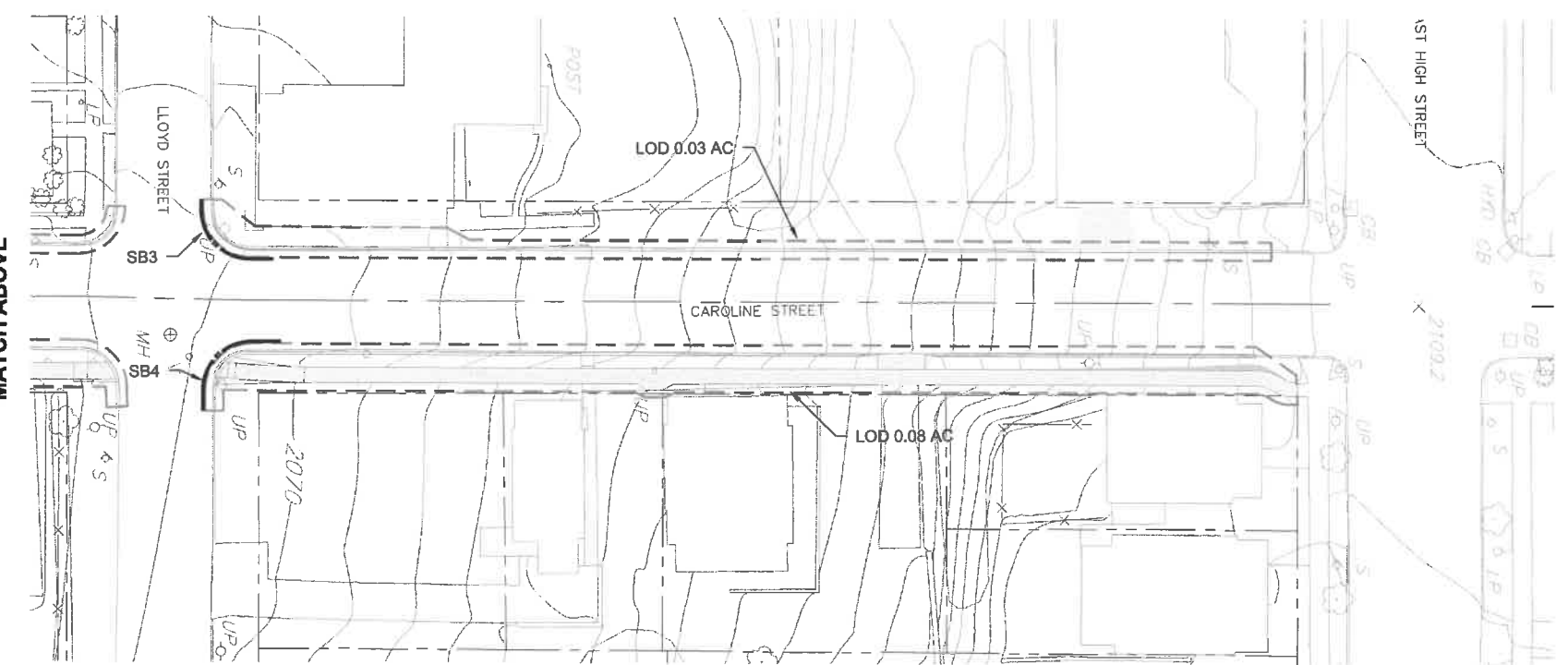
BOROUGH OF
EBENSBURG

300 WEST HIGH STREET
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1 CAROLINE ST
SCALE: 1" = 20'

MATCH BELOW



2 CAROLINE ST
SCALE: 1" = 20'

MATCH ABOVE

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**CONTRACT 1
CAROLINE STREET
E & S CONTROL PLAN**

C1.12

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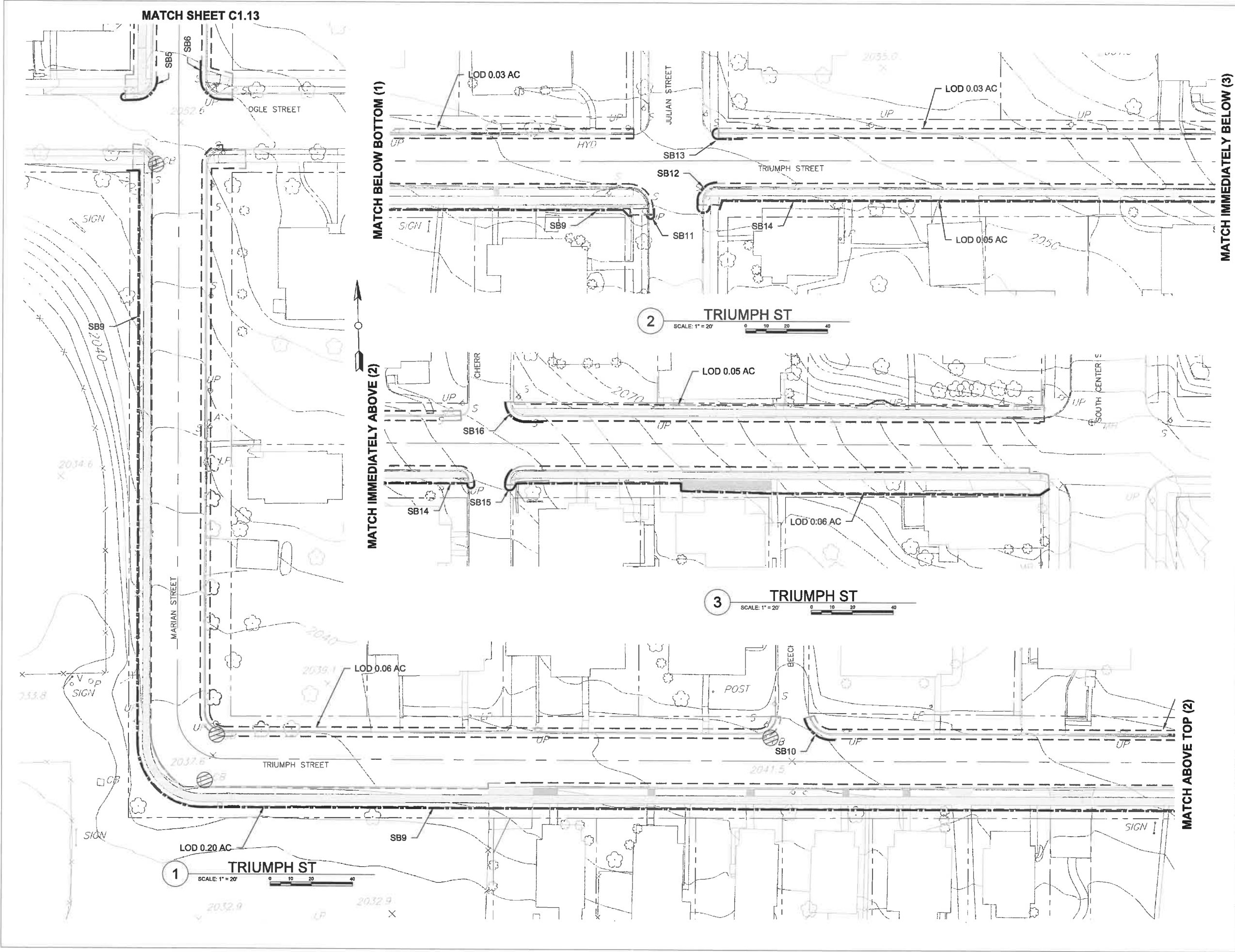
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SHEET TITLE
**CONTRACT 1
MARIAN/TRIUMPH STREET
E & S CONTROL PLAN**

C1.14



SEDIMENTATION CONTROL GENERAL NOTES

ID SEDIMENTATION CONTROL MEASURES SHALL BE ALL SOIL DISTURBING ACTIVITIES CEASE AND IZATION OF DISTURBED AREAS IS COMPLETE AND ENGINEER AND THE SNYDER COUNTY CONSERVATION

3R SHALL INSPECT ALL EROSION AND SEDIMENTATION AFTER EACH RAINFALL OR SNOW MELT EVENT OR ON ND REMOVE ALL ACCUMULATED SEDIMENT WHENEVER UMLATION HAS REACHED THE SPECIFIED SEDIMENT DEPOSITS FROM THE SEDIMENT STRUCTURES WILL BE ONTRACTOR'S DISPOSAL AREA OR UTILIZED ON SITE ANNER.

3R SHALL NOTIFY THE ENGINEER IMMEDIATELY IF HE Y SEDIMENT OR EROSION CONTROL DEVICE IS NOT CTLY.

D SEDIMENTATION CONTROLS MUST BE ABILIZED AND FUNCTIONAL BEFORE SITE DISTURBANCE RY AREAS OF THE CONTROLS. ONLY LIMITED BE PERMITTED TO PROVIDE ACCESS TO THE EROSION IN CONTROL DEVICES.

3 SOCKS WILL BE CLEANED OF ACCUMULATED HE SEDIMENT REACHES ONE-HALF OF THE BARRIER RIER FAILS TO HOLD IN ANY WAY, THE FAILED SECTION ND REPLACED IMMEDIATELY. PRIOR TO THE FINAL IER FOLLOWING ALL STAGES OF CONSTRUCTION AND PSLOPE DRAINAGE AREAS, THE ACCUMULATED REMOVED. AFTER REMOVAL, REGRADE AND QURED.

IVED ROADWAYS WILL BE KEPT CLEAN OF ALL L BE INSPECTED DAILY BY THE CONTRACTOR.

UST ENSURE THAT PROPER MECHANISMS ARE IN L WASTE MATERIALS. CONSTRUCTION WASTES NOT LIMITED TO EXCESS SOIL, MATERIALS, BUILDING ETE WASH WATER, SANITARY WASTES, ETC. THAT IMPACT WATER QUALITY. MEASURES SHOULD BE ENATED FOR HOUSEKEEPING, MATERIALS LITTER CONTROL, WHERE POSSIBLE, RECYCLING OF IS PREFERRED, RATHER THAN DISPOSAL.

D SEDIMENTATION NOTES

STABILIZED, ALL EROSION AND SEDIMENTATION IE MAINTAINED PROPERLY. MAINTENANCE MUST NS OF ALL EROSION AND SEDIMENTATION EACH STORM EVENT AND ON A WEEKLY BASIS. ALL D REMEDIAL MAINTENANCE WORK, INCLUDING R, REPLACEMENT, REMULCHING, AND RENETTING IED IMMEDIATELY.

URE CONTAINED, WITHIN THIS PLAN, PROVE QUATELY REMOVING SEDIMENT, FROM ON-SITE ISCHARGE, OR OF STABILIZING THE SURFACES INAL MEASURES MUST BE IMMEDIATELY THE PROPERTY OWNER/DEVELOPER TO ELIMINATE MS.

STABILIZATION HAS BEEN ACHIEVED, TEMPORARY IMENTATION CONTROLS MUST BE REMOVED. DURING REMOVAL OF THE CONTROLS MUST BE

THE LOCATION AND TYPE OF FILTER AND ON SITE BMP'S.

POSED TEMPORARY CONTROL MEASURES IS TO PREVENT TRING THE PROJECT SITE AND EVENTUALLY ENTERING A TRUCTION.

RESPONSIBLE FOR THE CONSTRUCTION AND VARY CONTROL MEASURES DURING CONSTRUCTION. THE ESPONSIBLE FOR SUPPLEMENTING THE EROSION AND PLAN AS NECESSARY. IN ORDER TO PREVENT EROSION RELEASE OF SEDIMENT LADEN RUNOFF. THE FOLLOWING ONTROL MEASURES ARE SHOWN ON THE CONSTRUCTION IIGNED IN ACCORDANCE WITH THE DEP EROSION AND TROL MANUAL.

TECTION: SILT SACKS WILL BE REQUIRED FOR ALL INLETS N-OFF.

HALL BE INSTALLED AROUND THE PERIMETER OF THE THE WORK AREA. THE COMPOST FILTER SOCK SHALL FORE IT LEAVES THE SITE.

TTED, SMALL GRAIN FREE OF ALL KINDS OF WEEDS AND WEEDS SUCH AS: THISTLES, JOHNSONGRASS AND

LL BE GREEN DYED AND AIR-DRIED WOOD CELLULOUS O GROWTH OR GERMINATION INHIBITING SUBSTANCES, IN DING ONE HUNDRED POUNDS NET WEIGHT SHOWN ON 3 THE FOLLOWING:
IT: 14% +/- 3%
OVEN DRIED BASIS: 98.6 +/- 0.2%
s +/- 0.2%
APACITY: 1000% MINIMUM

L BE SUITABLE FIBROUS GROUND, SHREDDED OR CHUNKS, K, FREE FROM VIABLE, NOXIOUS WEED SEEDS AND IPOSED AND BETWEEN 1/4" AND 2" IN DIMENSION HALL COMFORM TO PADOT STANDARDS CONTAINING NO 3 AGENTS TOXIC TO PLANT LIFE AND NOT MORE THAN 3 ACIDS.
ALL COMFORM TO PADOT STANDARDS.
ION SHALL BE NATURAL VEGETABLE GUM BLENDED WITH G AGENTS (TERRA TACK AR) AS MANUFACTURED WITH PANY OR EQUAL.
3 AS APPROVED BY THE PADEP BUREAU OF LAND AND 4.
IG WILL OCCUR AFTER ANY EARTH DISTURBANCE THAT D AFTER 4 DAYS.

MAINTENANCE PROGRAM

MAINTENANCE OF TEMPORARY CONTROLS: UNTIL THE SITE IS STABILIZED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL BMP'S. CONTRACTOR IS RESPONSIBLE TO PAY FOR ANY EROSION AND SEDIMENTATION CONTROL VIOLATIONS ON SITE. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, RE-GRADING, RESEEDING, RE-MULCHING, AND RE-NETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENTATION CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED. RESPONSIBILITIES SHALL INCLUDE, BUT NOT LIMITED TO THE FOLLOWING:

REMOVAL OF PONDED WATER. INSPECT ANY LOW LYING AREAS, AS WELL AS ANY STRUCTURAL AREAS WHICH WATER COULD ACCUMULATE IN. THIS WOULD CONSIST OF OPEN BUILDING FOUNDATIONS AND/OR BASEMENTS, AND ANY OTHER AREAS WHERE WATER COULD ACCUMULATE. PUMPED WATER FILTER BAGS MAY BE USED TO DEWATER SUCH AREAS AND FILTER SILT LADEN WATER FROM DISTURBED AREAS. PRIOR TO DISCHARGING TO WATERS OF THE COMMONWEALTH BY WAY OF THE ON-SITE STORMWATER COLLECTION SYSTEM, PUMPED WATER FILTER BAGS SHALL BE INSTALLED AND IMPLEMENTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN DRAWINGS.

DAILY SEDIMENT REMOVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DAILY REMOVAL OF ANY SEDIMENT DEPOSITED ON PUBLIC ROADS AND RETURN TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER WILL BE UNACCEPTABLE.

COMPOST FILTER SOCKS SHALL BE CLEANED WHEN SEDIMENT ACCUMULATIONS HAVE REACHED 1/2 THE HEIGHT OF THE SOCK. DAMAGED SOCK SHALL BE REPLACED IMMEDIATELY.

AN ADEQUATE SUPPLY OF ADDITIONAL EROSION/SEDIMENTATION CONTROL MATERIALS (INCLUDING, BUT NOT LIMITED TO, COMPOST FILTER SOCKS, INLET PROTECTION, TEMPORARY SEED, SAND BAGS, ROCKS, AND GRAVEL) SHALL BE STOCKPILED AND ARE TO BE USED IN THE EVENT THAT EMERGENCY REPAIRS OF SOIL EROSION/SEDIMENTATION CONTROLS ARE REQUIRED.

MAINTENANCE OF PERMANENT CONTROLS: AFTER FINISHED SUB-GRADES ARE CONSTRUCTED, LEAVE TEMPORARY CONTROLS IN PLACE. TOPSOIL WILL BE SPREAD, SOIL SUPPLEMENTS WILL BE ADDED AND THE AREA WILL BE RAKED SMOOTH.

ANY STABILIZED AREAS DISTURBED DURING THE MAINTENANCE ACTIVITIES SHALL BE IMMEDIATELY STABILIZED WITH THE DESIGN STABILIZATION OF THE AREA.

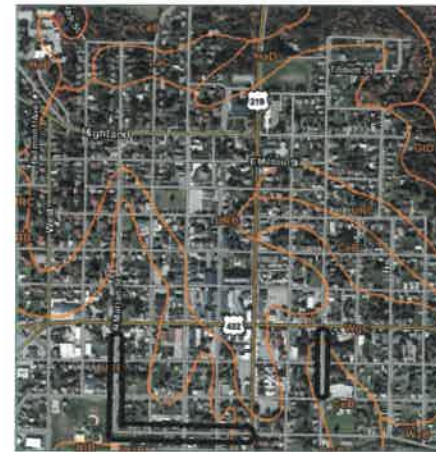
ALL INSPECTIONS SHALL BE LOGGED ONTO PADEP FORM 3150-FM-BWEC0083 DATED 2/2012 AND KEPT ON SITE AT ALL TIMES.

CRITICAL STAGES OF IMPLEMENTATION

NONE.

CONSTRUCTION SEQUENCE

- Contact the Cambria County Conservation District at least seven days prior to the intended start of construction to schedule a preconstruction meeting to be held with the Conservation District, contractor, and the Project Engineer. Ebensburg Borough shall also be notified in writing three days prior to the meeting.
- Each step in the construction sequence shall be completed before initiation of the next step.
- Contractor shall provide additional erosion and sedimentation control devices as necessary based on site conditions and weather patterns during construction.
- If at any time during construction sediment laden water cannot be diverted to the all sock, it must be pumped through a filter bag facility, such as the one shown on the Erosion & Sediment Control Detail sheet, before being discharged to the existing downstream waterway.
- Contractor shall acquire E&S Plan approval for any off-site borrow or waste areas that will supply material for this site or facilitate disposal of excess material.
- Install inlet filter bags and silt barriers prior to initiating any upslope excavation work.
- Save cut pavement inward of new face of cut to create a neat excavation line.
- Excavate and deposit in waiting trucks any topsoil to be stockpiled for subsequent stabilization efforts. Stockpile at Contractor's established laydown area.
- Excavate to remove existing curb, sidewalk, tree stumps and excess soil, depositing material directly into waiting trucks to avoid disposition on unprotected areas outside of Limit of Disturbance.
- Grade for and install new curb and sidewalk.
- Stabilize unpaved areas with topsoil, seeding, and mulch.
- Repare gap along new face of cut.
- Coordinate site inspection by Cambria County Conservation District to verify site stabilization prior to removal of E&S Controls.



SITE SOILS MAP

SOIL TYPES TABLE DETAIL

DISTURBED SOILS								
SYMBOL	NAME	SLOPE (%)	DRAINAGE CLASS	DEPTH TO BEDROCK	DEPTH TO SEASONAL HIGH H2O TABLE (FT)	PERMEABILITY (IN/HR)	CAPABILITY SUB CLASS	HYDROLOGIC SOIL GROUP
Ur	Urban Land	NA	NA	NA	NA	NA	NA	NA
CeB	Cookport & Earnest soils	3-8%	Mod Well	40	4	NA	2e	C/D
WgC	Wharton/Gilpin Complex	8-15	Mod Well	25	14	0.06 - 2.00	3e	C/D

SPECIAL NOTES	
THE LIMITATIONS FOR THE ABOVE SOILS INCLUDE LIMITATIONS THAT REDUCE THE CHOICE OF PLANTS THAT CAN BE USED. SEE BELOW FOR SPECIFIC LIMITATIONS. THESE LIMITATIONS WILL BE OVERCOME BY IMPLEMENTING A PROPER PLANTING PLAN FOR THE SOILS LOCATED ON SITE OR USE AN AMENDED SOIL MIX IF NEEDED.	

CAPABILITY/SUBCLASS CLASSIFICATION	
III - SOILS HAVE SEVERE LIMITATIONS THAT REDUCE THE CHOICE OF PLANTS OR THAT REQUIRE SPECIAL CONSERVATION PRACTICES OR BOTH	
w - WATER INTERFERENCE MAY OCCUR	

GENERAL NOTES	
THE ABOVE SOILS INFORMATION IS PROVIDED FROM THE NRCS WEB SOIL SURVEY AS GENERAL INFORMATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ACTUAL SITE CONDITION.	
THE LANDSCAPE PLAN HAS BEEN DEVELOPED BY A REGISTERED LANDSCAPE ARCHITECT WITH THE SOIL LIMITATIONS IN MIND. SOIL AMENDMENTS AND PROPER MULCHING ARE PLANNED IN CERTAIN AREAS TO ACCOMMODATE THE LIMITATIONS OF THE SOIL TYPES.	

ADDITIONAL LIMITATION NOTES		
SYMBOL	LIMITATIONS	LIMITATIONS RESOLUTION
CeB	CUTBANKS CAVE, CORROSIIVE TO CONCRETE AND STEEL, DROUGHTY, EASILY ERODIBLE, DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE, HYDRIC/HYDRIC INCLUSIONS, LOW STRENGTH/LANDSLIDE PRONE, SLOW PERCOLATION, PIPING, POOR SOURCE OF TOPSOIL, FROST ACTION, SHRINK-SWELL, WETNESS	THE CONTRACTOR SHALL IMPLEMENT AT ALL TIMES ALL APPLICABLE OSHA STANDARDS AND REGULATIONS TO SAFEGUARD WORKERS, ALL UNDERGROUND CONCRETE FEATURES SHALL HAVE A PROTECTIVE LAYER OF LIMESTONE BETWEEN THE STRUCTURE AND THE SOIL TO PREVENT EROSION. THE LANDSCAPE PLAN HAS BEEN DEVELOPED WITH DROUGHT TOLERANT PLANTS. ALL SLOPES ARE EQUAL/LESS THAN THE MAXIMUM ALLOWED. ALL EMBANKMENTS TO BE GRADED AND STABILIZED. DISTURBED AREAS IN WHICH WORK CEASES FOR A PERIOD OF 4 DAYS SHALL BE STABILIZED. THE DISTURBED AREAS SHALL BE STABILIZED IN A TIMELY MANNER TO LIMIT EROSION. THE CONTRACTOR SHALL PREPARE A DEWATERING PLAN TO ADDRESS ANY POTENTIAL HIGH WATER TABLE CONCERNS AND KEEP ANY NECESSARY EQUIPMENT/MATERIALS ON-SITE DURING CONSTRUCTION TO IMPLEMENT SUCH PLAN SHOULD THE NEED ARISE. ANY POTENTIAL WETLANDS ON SITE WILL BE AVOIDED OR PROPOSED DISTURBANCE WILL BE PROPERLY PERMITTED THROUGH THE PROPER AGENCY. THE DISTURBED AREAS SHALL BE STABILIZED IN A TIMELY MANNER TO LIMIT THE CHANCE OF LANDSLIDES. THE CONTRACTOR SHALL CONSULT A GEOTECHNICAL ENGINEER FOR EARTH MOVING ACTIVITIES TO ADDRESS ANY POTENTIAL ISSUES. STORMWATER MANAGEMENT FACILITIES HAVE BEEN DESIGNED TAKING INTO CONSIDERATION THE PERCOLATION RATES OF THE SOILS. UNDERDRAINS AND/OR DRY DETENTION FACILITIES MAY BE ADDED TO THE STORMWATER MANAGEMENT FACILITIES TO ADDRESS THE PERCOLATION RATE. THE CONTRACTOR SHALL CONSULT A GEOTECHNICAL ENGINEER FOR EARTH MOVING ACTIVITIES TO ADDRESS ANY POTENTIAL ISSUES. STORMWATER MANAGEMENT FACILITIES HAVE BEEN DESIGNED TAKING INTO CONSIDERATION THE PERCOLATION RATES OF THE SOILS. UNDERDRAINS AND/OR DRY DETENTION FACILITIES MAY BE ADDED TO THE STORMWATER MANAGEMENT FACILITIES TO ADDRESS THE PERCOLATION RATE. THE CONTRACTOR SHALL STRIP AND STORE TOPSOIL ON SITE FOR FINAL GRADING PURPOSES. IF ADDITIONAL TOPSOIL IS NEEDED, THE CONTRACTOR SHALL IMPORT TOPSOIL FROM A SITE WHICH HAS AN APPROVED EROSION CONTROL PERMIT PLAN OR PURCHASE THE TOPSOIL FROM A SUPPLIER. THE BUILDING FOUNDATIONS AND UTILITIES SHALL BE INSTALLED BELOW THE FROST LINE. THE GRADING PLAN HAS BEEN DEVELOPED TAKING INTO CONSIDERATION ANY SHRINK-SWELL ISSUES OF THE SOIL. THE CONTRACTOR SHALL CONSULT A GEOTECHNICAL ENGINEER FOR EARTH MOVING ACTIVITIES TO ADDRESS ANY POTENTIAL ISSUES. THE CONTRACTOR SHALL PREPARE A DEWATERING PLAN TO ADDRESS ANY POTENTIAL WETNESS CONCERNS AND KEEP NECESSARY EQUIPMENT/MATERIALS ON-SITE DURING CONSTRUCTION TO IMPLEMENT SUCH PLAN SHOULD THE NEED ARISE. THE LANDSCAPE PLAN WAS DEVELOPED UTILIZING PLANTS TOLERANT TO WET CONDITIONS.
WgC	CUTBANKS CAVE, CORROSIIVE TO CONCRETE AND STEEL, DROUGHTY, EASILY ERODIBLE, DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE, HYDRIC/HYDRIC INCLUSIONS, LOW STRENGTH/LANDSLIDE PRONE, SLOW PERCOLATION, PIPING, POOR SOURCE OF TOPSOIL, FROST ACTION, SHRINK-SWELL, WETNESS	THE CONTRACTOR SHALL IMPLEMENT AT ALL TIMES ALL APPLICABLE OSHA STANDARDS AND REGULATIONS TO SAFEGUARD WORKERS, ALL UNDERGROUND CONCRETE FEATURES SHALL HAVE A PROTECTIVE LAYER OF LIMESTONE BETWEEN THE STRUCTURE AND THE SOIL TO PREVENT EROSION. THE LANDSCAPE PLAN HAS BEEN DEVELOPED WITH DROUGHT TOLERANT PLANTS. ALL SLOPES ARE EQUAL/LESS THAN THE MAXIMUM ALLOWED. ALL EMBANKMENTS TO BE GRADED AND STABILIZED. DISTURBED AREAS IN WHICH WORK CEASES FOR A PERIOD OF 4 DAYS SHALL BE STABILIZED. THE DISTURBED AREAS SHALL BE STABILIZED IN A TIMELY MANNER TO LIMIT EROSION. THE CONTRACTOR SHALL PREPARE A DEWATERING PLAN TO ADDRESS ANY POTENTIAL HIGH WATER TABLE CONCERNS AND KEEP ANY NECESSARY EQUIPMENT/MATERIALS ON-SITE DURING CONSTRUCTION TO IMPLEMENT SUCH PLAN SHOULD THE NEED ARISE. ANY POTENTIAL WETLANDS ON SITE WILL BE AVOIDED OR PROPOSED DISTURBANCE WILL BE PROPERLY PERMITTED THROUGH THE PROPER AGENCY. THE DISTURBED AREAS SHALL BE STABILIZED IN A TIMELY MANNER TO LIMIT THE CHANCE OF LANDSLIDES. THE CONTRACTOR SHALL CONSULT A GEOTECHNICAL ENGINEER FOR EARTH MOVING ACTIVITIES TO ADDRESS ANY POTENTIAL ISSUES. STORMWATER MANAGEMENT FACILITIES HAVE BEEN DESIGNED TAKING INTO CONSIDERATION THE PERCOLATION RATES OF THE SOILS. UNDERDRAINS AND/OR DRY DETENTION FACILITIES MAY BE ADDED TO THE STORMWATER MANAGEMENT FACILITIES TO ADDRESS THE PERCOLATION RATE. THE CONTRACTOR SHALL CONSULT A GEOTECHNICAL ENGINEER FOR EARTH MOVING ACTIVITIES TO ADDRESS ANY POTENTIAL ISSUES. STORMWATER MANAGEMENT FACILITIES HAVE BEEN DESIGNED TAKING INTO CONSIDERATION THE PERCOLATION RATES OF THE SOILS. UNDERDRAINS AND/OR DRY DETENTION FACILITIES MAY BE ADDED TO THE STORMWATER MANAGEMENT FACILITIES TO ADDRESS THE PERCOLATION RATE. THE CONTRACTOR SHALL STRIP AND STORE TOPSOIL ON SITE FOR FINAL GRADING PURPOSES. IF ADDITIONAL TOPSOIL IS NEEDED, THE CONTRACTOR SHALL IMPORT TOPSOIL FROM A SITE WHICH HAS AN APPROVED EROSION CONTROL PERMIT PLAN OR PURCHASE THE TOPSOIL FROM A SUPPLIER. THE BUILDING FOUNDATIONS AND UTILITIES SHALL BE INSTALLED BELOW THE FROST LINE. THE GRADING PLAN HAS BEEN DEVELOPED TAKING INTO CONSIDERATION ANY SHRINK-SWELL ISSUES OF THE SOIL. THE CONTRACTOR SHALL CONSULT A GEOTECHNICAL ENGINEER FOR EARTH MOVING ACTIVITIES TO ADDRESS ANY POTENTIAL ISSUES. THE CONTRACTOR SHALL PREPARE A DEWATERING PLAN TO ADDRESS ANY POTENTIAL WETNESS CONCERNS AND KEEP NECESSARY EQUIPMENT/MATERIALS ON-SITE DURING CONSTRUCTION TO IMPLEMENT SUCH PLAN SHOULD THE NEED ARISE. THE LANDSCAPE PLAN WAS DEVELOPED UTILIZING PLANTS TOLERANT TO WET CONDITIONS.
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CONSULTANTS:

PROJECT NAME:
BOROUGH OF EBENBURG CURB AND SIDEWALK REPLACEMENT
BOROUGH OF EBENBURG CAMBRIA COUNTY, STATE
OWNER:

BOROUGH OF EBENBURG
300 WEST HIGH STREET
EBENBURG, PA 15931

REV.	DATE	DESCRIPTION

ISSUE: 1/14/2019
PROJECT NO: EBG.E000140.EB21
SCALE: AS SHOWN
DRAWN BY: TAG
CHECKED BY: GLH

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SHEET TITLE
CONTRACT 1 NOTES
E & S CONTROL PLAN

C1.15

CONSULTANTS:

PROJECT NAME:
BOROUGH OF EBENSBURG CURB AND SIDEWALK REPLACEMENT
BOROUGH OF EBENSBURG CAMBRIA COUNTY, STATE
OWNER:
BOROUGH OF EBENSBURG
300 WEST HIGH STREET
EBENSBURG, PA 15931

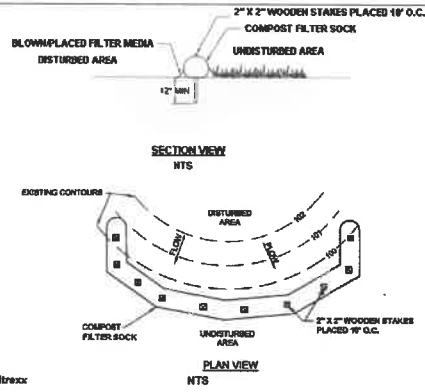
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SHEET TITLE

**CONTRACT 1
DETAILS
E & S CONTROL PLAN**

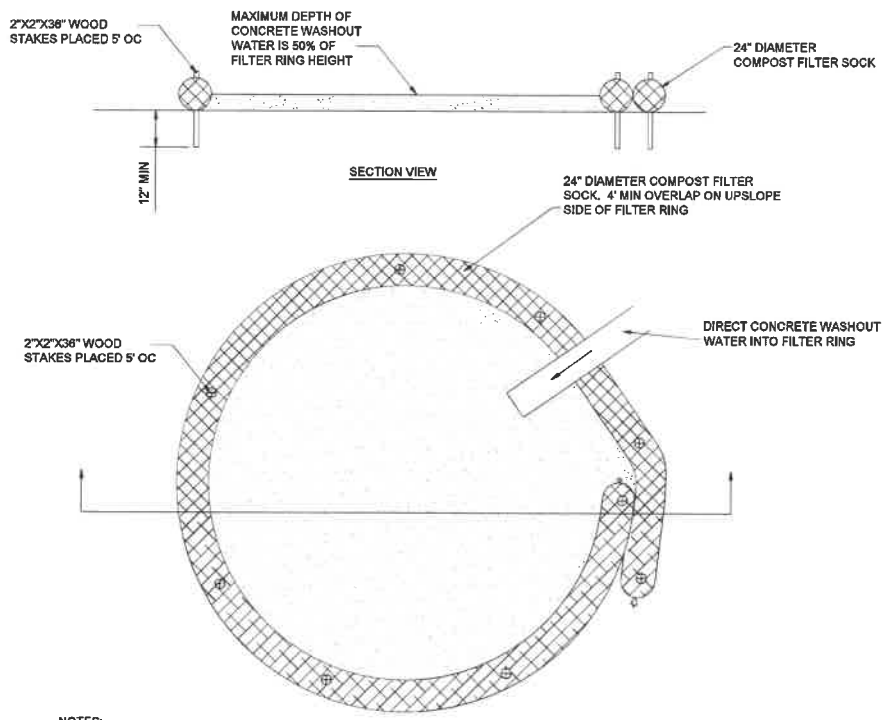
C1.16



Soak fabric shall meet standards of Table 4.1. Compost shall meet the standards of Table 4.2. Compost filter sock shall be placed at existing level grade. Both ends of the sock shall be extended at least 8 feet up slope at 45 degrees to the main sock alignment (Figure 4.1). Maximum slope length above any sock shall not exceed that shown on Figure 4.2. Stakes may be installed immediately downslope of the sock if so specified by the manufacturer. Traffic shall not be permitted to cross filter socks. Accumulated sediment shall be removed when it reaches half the aboveground height of the sock and disposed in the manner described elsewhere in the plan. Socks shall be inspected weekly and after each runoff event. Damaged socks shall be repaired according to manufacturer's specifications or replaced within 24 hours of inspection. Biodegradable filter socks shall be replaced after 6 months; photodegradable socks after 1 year. Polypropylene socks shall be replaced according to manufacturer's recommendations. Upon stabilization of the area tributary to the sock, stakes shall be removed. The sock may be left in place and vegetated or removed. In the latter case, the mesh shall be cut open and the mulch spread as a soil supplement.

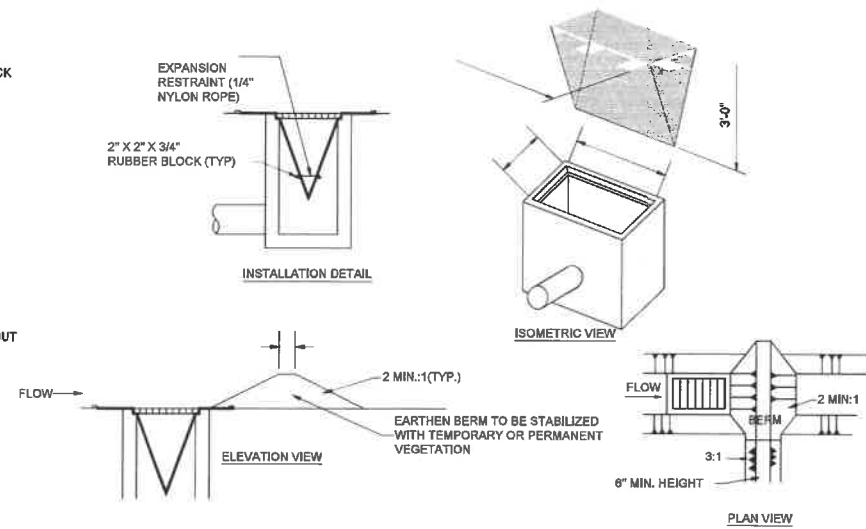
BARRIER NO.	LOCATION	SOCK SIZE (IN)	SLOPE (%)	SLOPE LENGTH ABOVE BARRIER (FT)
SB1	CAROLINE AT OGLE	24"	8%	300
SB2	CAROLINE AT OGLE	24"	8%	300
SB3	CAROLINE AT LLOYD	24"	10%	300
SB4	CAROLINE AT LLOYD	24"	10%	300
SB5	MARIAN AT OGLE	18"	6%	300
SB6	MARIAN AT OGLE	18"	6%	300
SB7	MARIAN AT LLOYD	18"	6%	300
SB8	MARIAN AT LLOYD	18"	6%	300
SB9	MARIAN/OGLE TO TRIUMPH/JULIAN (WEST & SOUTH SIDES)	12"	20%	10
SB10	TRIUMPH AT BEECH	12"	3%	270
SB11	TRIUMPH AT JULIAN	12"	10%	20
SB12	TRIUMPH AT JULIAN	12"	4%	300
SB13	TRIUMPH AT JULIAN	12"	4%	300
SB14	TRIUMPH - JULIAN TO CHERRY (SOUTH SIDE)	12"	20%	10
SB15	TRIUMPH - CHERRY TO CENTER (SOUTH SIDE)	18"	9%	260
SB16	TRIUMPH AT CHERRY	18"	9%	260

COMPOST FILTER SOCK DETAIL
SCALE: NTS



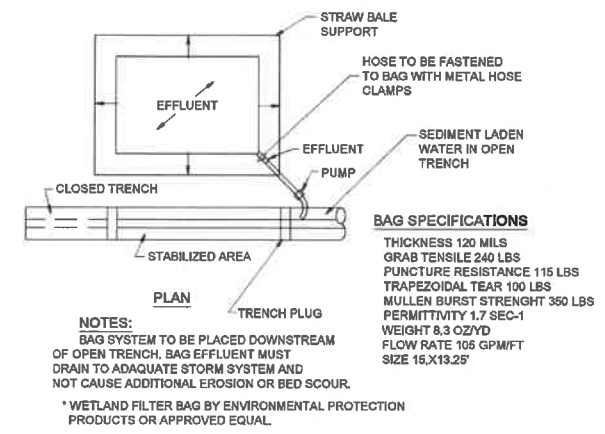
NOTES:
SURPLUS CONCRETE SHALL BE RETURNED TO SUPPLIER'S SITE OR CONTRACTOR SHALL MAINTAIN CONCRETE WASHOUT FACILITIES AT THEIR LAYDOWN YARD.
INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
18" DIAMETER FILTER SOCK MAY BE STACKED ONTO 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.

CONCRETE WASHOUT DETAIL
N.T.S.



MAXIMUM DRAINAGE AREA = 1/2 ACRE.
INLET PROTECTION IS NOT REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS

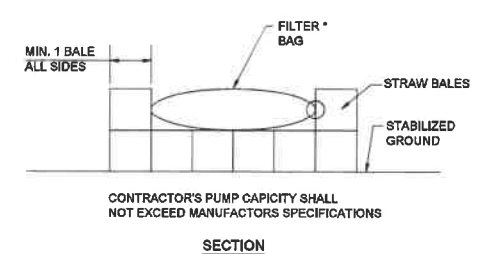
FILTER BAG INLET PROTECTION CHANNEL OR ROADSIDE SWALE DETAIL
SCALE: NTS



BAG SPECIFICATIONS
THICKNESS 120 MILS
GRAB TENSILE 240 LBS
PUNCTURE RESISTANCE 115 LBS
TRAPEZOIDAL TEAR 100 LBS
MULLEN BURST STRENGTH 350 LBS
PERMITTIVITY 1.7 SEC-1
WEIGHT 8.3 OZ/YD
FLOW RATE 105 GPM/FT
SIZE 15 X 13.25

NOTES:
BAG SYSTEM TO BE PLACED DOWNSTREAM OF OPEN TRENCH. BAG EFFLUENT MUST DRAIN TO ADEQUATE STORM SYSTEM AND NOT CAUSE ADDITIONAL EROSION OR BED SCOUR.
* WETLAND FILTER BAG BY ENVIRONMENTAL PROTECTION PRODUCTS OR APPROVED EQUAL

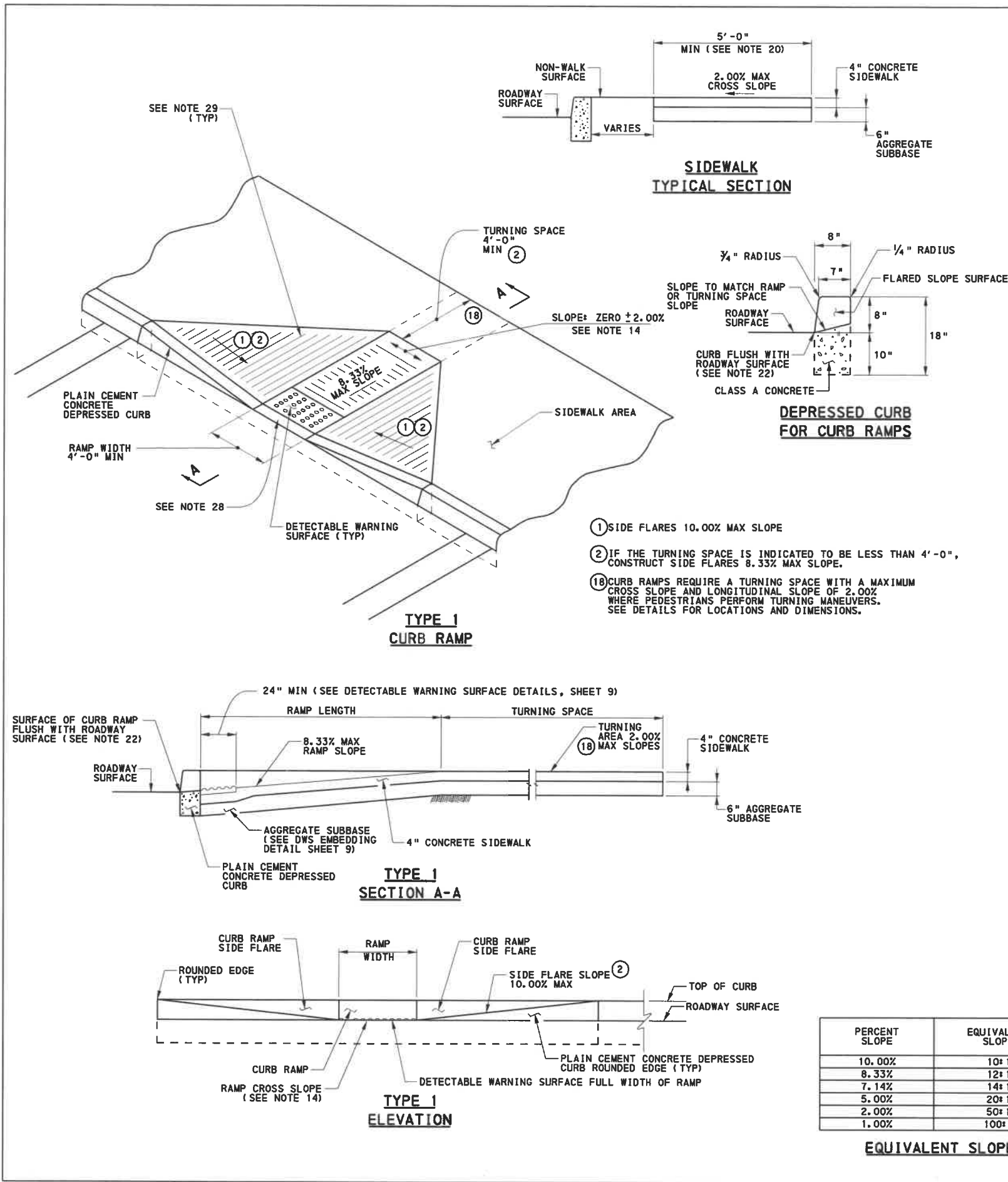
FILTER BAG FACILITY DETAIL
N.T.S.



FILTER BAG FACILITY DETAIL
N.T.S.

SEEDING TABLE

SEED TYPE	DESCRIPTION, FORMULA, SPECIES	% BY WEIGHT	MINIMUM %		MAX % WEED SEED	SEEDING RATE:	FERTILIZER RATE: 1,000 LBS./ACREF.		LIME RATE: TONS/AC	MULCH RATE:
			PURITY	GERMINATION			BASIC	STARTER		
TYPE 1 LAWN AREAS (PER PENNDOT SPECS)	PENNDOT FORMULA B PERENNIAL RYEGRASS MIXTURE	20	98	90	0.15	0.44	10-20-20	40	6	3 TON/ACRE
	*CREEPING RED FESCUE	30	98	85	0.15	0.67				
	*KENTUCKY BLUEGRASS MIXTURE	50	98	80	0.20	1.2				
						2.3 LBS./1000 S.F.				
TYPE 3 TEMPORARY SEEDING	ANNUAL RYEGRASS	100	98	90	0.15	TOTAL = 1.1 LBS./1000 S.F.	10-20-20	6		3 TON/ACRE



NOTES

1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTIONS 350, 409, 630, 676, 694, AND 695.
2. PROVIDE EXPANSION JOINT MATERIAL 1/2" THICK WHERE CURB RAMP ADJOINS ANY RIGID PAVEMENT, SIDEWALK OR STRUCTURE WITH THE TOP OF JOINT FILLER FLUSH WITH ADJACENT CONCRETE SURFACE.
3. CONSTRUCT CURB RAMPS WITH A MINIMUM 4'-0" X 4'-0" CLEAR SPACE BEYOND THE CURB FACE, WITHIN THE WIDTH OF THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE. SEE SHEET 7 FOR CROSSWALK DETAILS.
4. SEAL JOINTS WITH AN APPROVED SEALING MATERIAL.
5. PROVIDE SLIP RESISTANT TEXTURE ON CURB RAMP BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP. EXTEND TEXTURE THE FULL WIDTH AND LENGTH OF THE CURB RAMP INCLUDING SIDE FLARES.
6. MODIFY CONSTRUCTION DETAILS TO ADAPT DIMENSIONS TO EXISTING CURB HEIGHTS WHERE THE CURB IS LESS THAN THE STANDARD 8" HEIGHT.
7. CURB RAMP AND SIDE FLARE LENGTHS ARE VARIABLE AND BASED ON CURB HEIGHT AND THE SIDEWALK SLOPE.
8. TO AVOID CHASING GRADE INDEFINITELY WHEN TRAVERSING THE HEIGHT OF CURB, RAMP LENGTH NOT TO EXCEED 15'-0". ADJUST RAMP SLOPE AS NEEDED TO PROVIDE ACCESS TO THE MAXIMUM EXTENT FEASIBLE.
9. NON-WALK AREA IS AN OBSTRUCTED OR GRASS/NON-PAVED AREA ADJACENT TO THE PEDESTRIAN ACCESS ROUTE THAT IS NOT USED BY THE PEDESTRIAN FOR ACCESS.
10. THE DETAILS DEPICT PEDESTRIAN PUSHBUTTON POLES TO ILLUSTRATE THE RECOMMENDED PLACEMENT OF PEDESTRIAN PUSHBUTTONS. FOR ALTERATION PROJECTS, PROVIDE ACCESS TO EXISTING PEDESTRIAN PUSHBUTTONS TO THE MAXIMUM EXTENT FEASIBLE. INSTALL PEDESTRIAN PUSHBUTTON STUB POLES, WHERE APPLICABLE, SO AS NOT TO CREATE PEDESTRIAN OBSTRUCTIONS.
11. SEE TC-8803 FOR ADDITIONAL PEDESTRIAN PUSHBUTTON DETAILS NOT SHOWN.
12. ALIGN DETECTABLE WARNING SURFACE TRUNCATED DOMES ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF THE RAMP AND PERPENDICULAR TO CURB. SEE SHEET 9 FOR INSTALLATIONS ALONG CURVED SURFACES.
13. PROVIDE DETECTABLE WARNING SURFACES (DWS) 24" MINIMUM (IN THE DIRECTION OF PEDESTRIAN TRAVEL) ACROSS FULL WIDTH OF RAMP AT THE GRADE BREAK NEAR STREET EDGE. PROVIDE DWS THAT CONTRAST VISUALLY WITH ADJACENT WALKWAY SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT FOR THE FULL WIDTH OF RAMP.
14. FOR NEW CONSTRUCTION, DO NOT EXCEED 2.00% CROSS SLOPE ON THE CURB RAMP OR PEDESTRIAN ACCESS ROUTE.
15. FOR NEW CONSTRUCTION AND ALTERATIONS, CONSTRUCT CURB RAMP AND FLARE SLOPES WITH THE FLATTEST SLOPE POSSIBLE. THE SLOPES INDICATED IN THE DETAILS SHOW THE MAX SLOPE ALLOWABLE. SLOPES THAT EXCEED THOSE INDICATED IN THE DETAILS, OR CONTRACT DOCUMENTS AS APPLICABLE, WILL NOT BE ACCEPTED AND WILL BE RECONSTRUCTED.
16. CONSTRUCT SIDEWALKS AT A LONGITUDINAL SLOPE NOT TO EXCEED 5.00%. FOR ROADWAY PROFILE SLOPES THAT EXCEED 5.00%, CONSTRUCT PARALLEL SIDEWALKS ADJACENT TO ROADWAY AT A LONGITUDINAL SLOPE NOT TO EXCEED ROADWAY PROFILE SLOPE.
17. THE CHANGE IN GRADE AT THE BOTTOM OF THE CURB RAMP AND ADJOINING ROAD SURFACE IS NOT TO EXCEED AN ALGEBRAIC DIFFERENCE OF 13.33%. THE COUNTER SLOPE OF THE GUTTER OR ROAD AT THE FOOT OF A CURB RAMP, TURNING SPACE OR BLENDED TRANSITION IS NOT TO EXCEED 5.00%. SEE SHEET 8 FOR DETAILS.
18. THE CONSTRUCTION STANDARDS DEPICTED ARE MOST APPROPRIATE FOR NEW CONSTRUCTION. ALL CONSTRUCTION MUST MEET THE STANDARDS CONTAINED HEREIN UNLESS OTHERWISE NOTED OR DIRECTED.
19. ALL SLOPES ARE MEASURED WITH RESPECT TO A LEVEL PLANE. THEREFORE, THE LENGTH OF RAMP IS NOT SOLELY DEPENDANT ON THE HEIGHT OF CURB. (FOR EXAMPLE, A 6" CURB DOES NOT NECESSARILY MEAN A RAMP LENGTH OF 6'-0" FOR A 12:1 SLOPE.)
20. SIDEWALK WIDTH MAY BE REDUCED TO 4'-0", WHEN PASSING AREAS 5'-0" X 5'-0" ARE PROVIDED EVERY 200'.
21. THE TRAVEL LANE IS DEFINED BY THE OUTSIDE EDGE OF THE WHITE PAVEMENT MARKING LINE. IF A WHITE PAVEMENT MARKING LINE DOES NOT EXIST, THE TRAVEL LANE IS DEFINED BY THE CONTRACT DOCUMENTS.
22. CONSTRUCT DEPRESSED CURB FOR CURB RAMPS FLUSH TO ADJACENT ROADWAY. GRADE EDGE OF ROAD ELEVATIONS AT THE FLOW LINE TO ENSURE POSITIVE DRAINAGE AND PREVENT PONDING. FOR LEVEL TURNING SPACES BEHIND DEPRESSED CURB, ADJUST SLOPES TO PROVIDE POSITIVE DRAINAGE. AT THE JOINT BETWEEN DEPRESSED CURB AND ROADWAYS, REMOVE EXCESS JOINT SEALER AND COVER THE SEALED AREA WITH A LIGHT APPLICATION OF DRY SAND.
23. CHEEK WALLS ARE PERMITTED WHEN ADJACENT TO NON-WALK AREAS OR ELEVATION DIFFERENCES CANNOT BE ACCOMMODATED BY FLARES OR GRADING. GRADE GRASS AREAS OR OTHER NON-WALK AREAS AT 3:1 OR FLATTER. DO NOT INSTALL CHEEK WALLS THAT INTERSECT THE PEDESTRIAN PATH.
24. CONSTRUCT TOP OF PLAIN CEMENT CONCRETE DEPRESSED CURB TO BE FLUSH WITH ADJACENT SURFACES (RAMPS, SIDEWALKS, FLARES).
25. FOR CURB RAMPS THAT LEAD TO A SINGLE CROSSWALK, THE RAMP (EXCLUDING FLARES) TO BE FULLY INSIDE OF MARKED CROSSWALK LINES. SEE SHEET 7 FOR DETAILS.
26. A 4'-0" MAXIMUM DIGITAL DISPLAY LEVEL WILL BE USED TO VERIFY THE SLOPES OF CURB RAMPS AND SIDEWALKS.
27. INSTALL DUMMY JOINTS WHERE RAMPS, TURNING SPACES, FLARES, AND SIDEWALKS ABUT.
28. CONSTRUCT DEPRESSED CURB SLOPE TO MATCH ROADWAY PROFILE AND HAVE A FLUSH CONNECTION. TRANSITION CURB RAMP CROSS SLOPE TO MATCH ROADWAY PROFILE AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3.00% PER 1'-0" CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
29. DO NOT SCORE OR MAKE GROOVES ON SLOPED SURFACES. LINES SHOWN ON DETAILS ARE FOR ILLUSTRATION ONLY. SEE NOTE 5.

PERCENT SLOPE	EQUIVALENT SLOPE
10.00%	10:1
8.33%	12:1
7.14%	14:1
5.00%	20:1
2.00%	50:1
1.00%	100:1

EQUIVALENT SLOPES

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**CURB RAMPS AND SIDEWALKS
NEW CONSTRUCTION OR
ALTERATION DETAILS
TYPE 1 CURB RAMPS AND
TYPICAL SECTIONS**

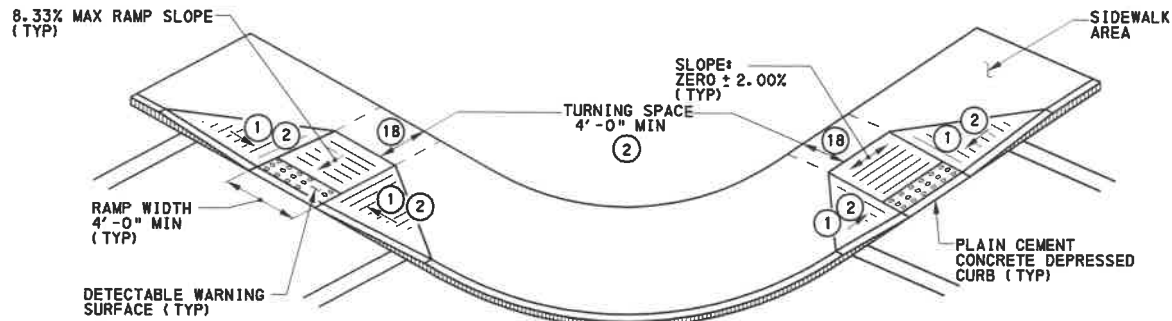
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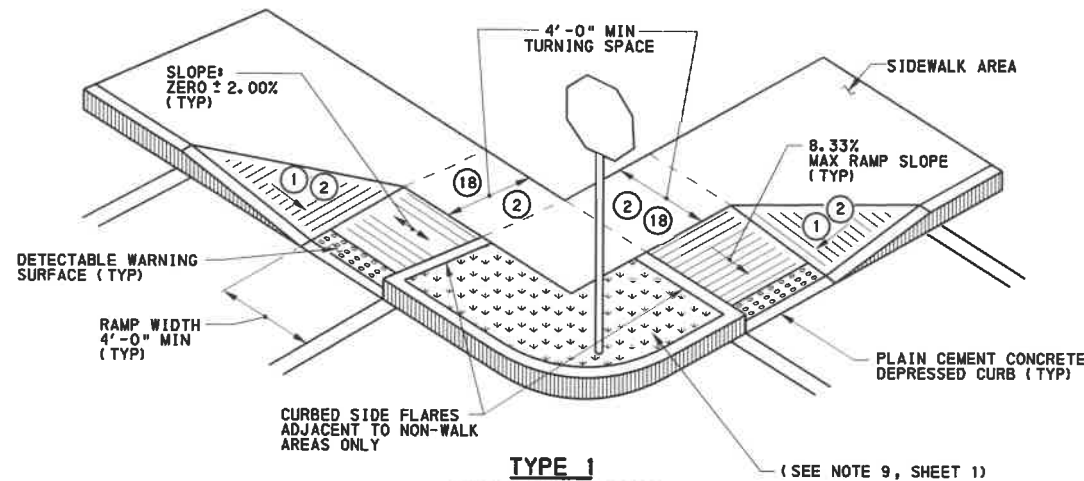
 ACTING DIR. BUREAU OF PROJECT DELIVERY

SHT 1 OF 14
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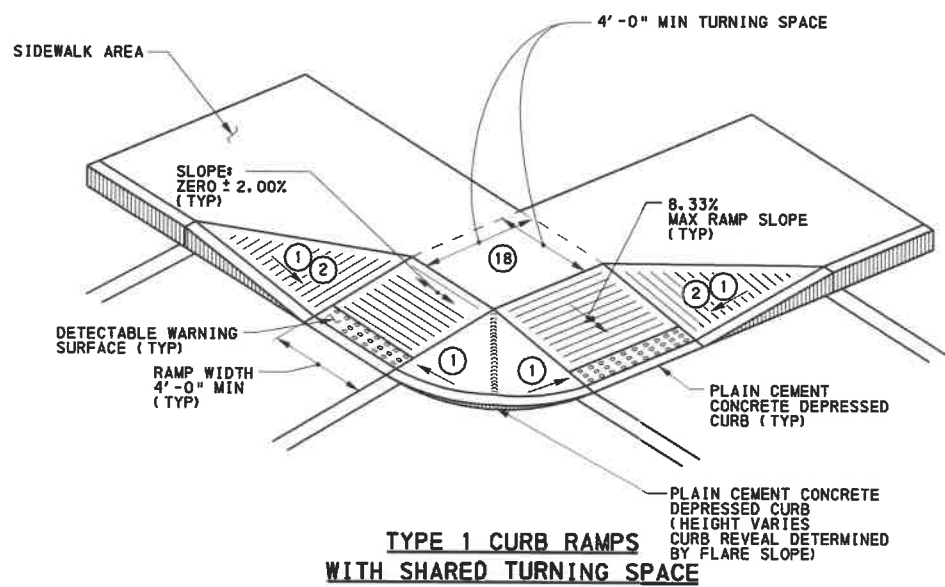


NOTE: IF SPACE IS LIMITED, IT MAY BE NECESSARY TO CURB THE SIDE FLARES OF THE TYPE 1 CURB RAMPS (SEE ALTERNATE INSTALLATION DETAIL BELOW). PEDESTRIAN TRAFFIC SHOULD NOT BE DIRECTED TO CROSS THE VERTICAL DROP.

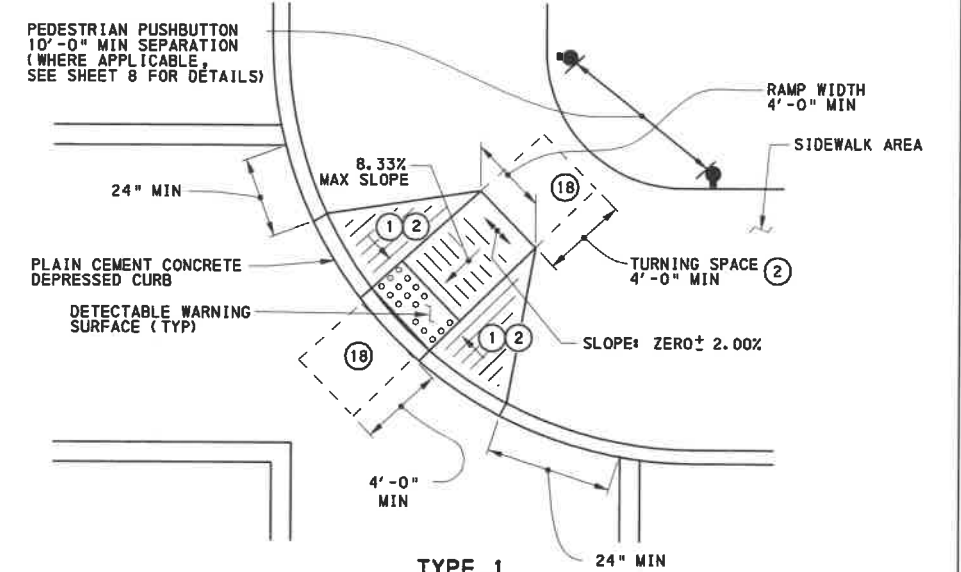
**TYPE 1
DOUBLE CURB RAMPS
(PREFERRED INSTALLATION)**



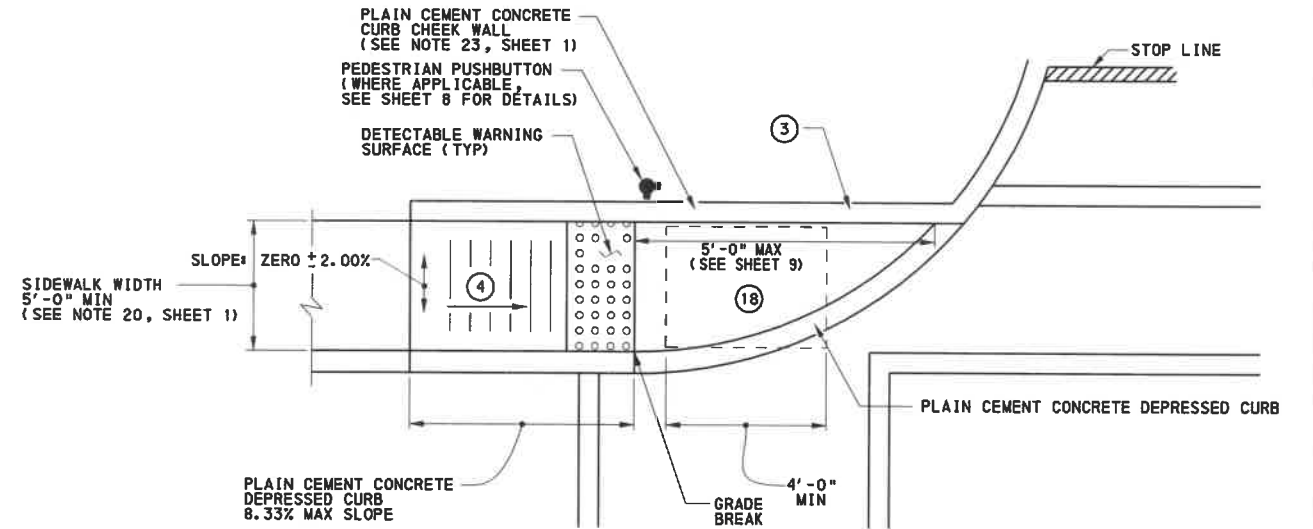
**TYPE 1
DOUBLE CURB RAMPS
(ALTERNATE INSTALLATION)**



**TYPE 1 CURB RAMPS
WITH SHARED TURNING SPACE**



**TYPE 1
CURB RAMP
(DIAGONAL - REQUIRES ASSISTANT
DISTRICT EXECUTIVE APPROVAL)**



**TYPE 1A
CURB RAMP
ASSISTANT DISTRICT EXECUTIVE APPROVAL
REQUIRED IF TURNING SPACE
IS NOT ENTIRELY ON SIDEWALK**

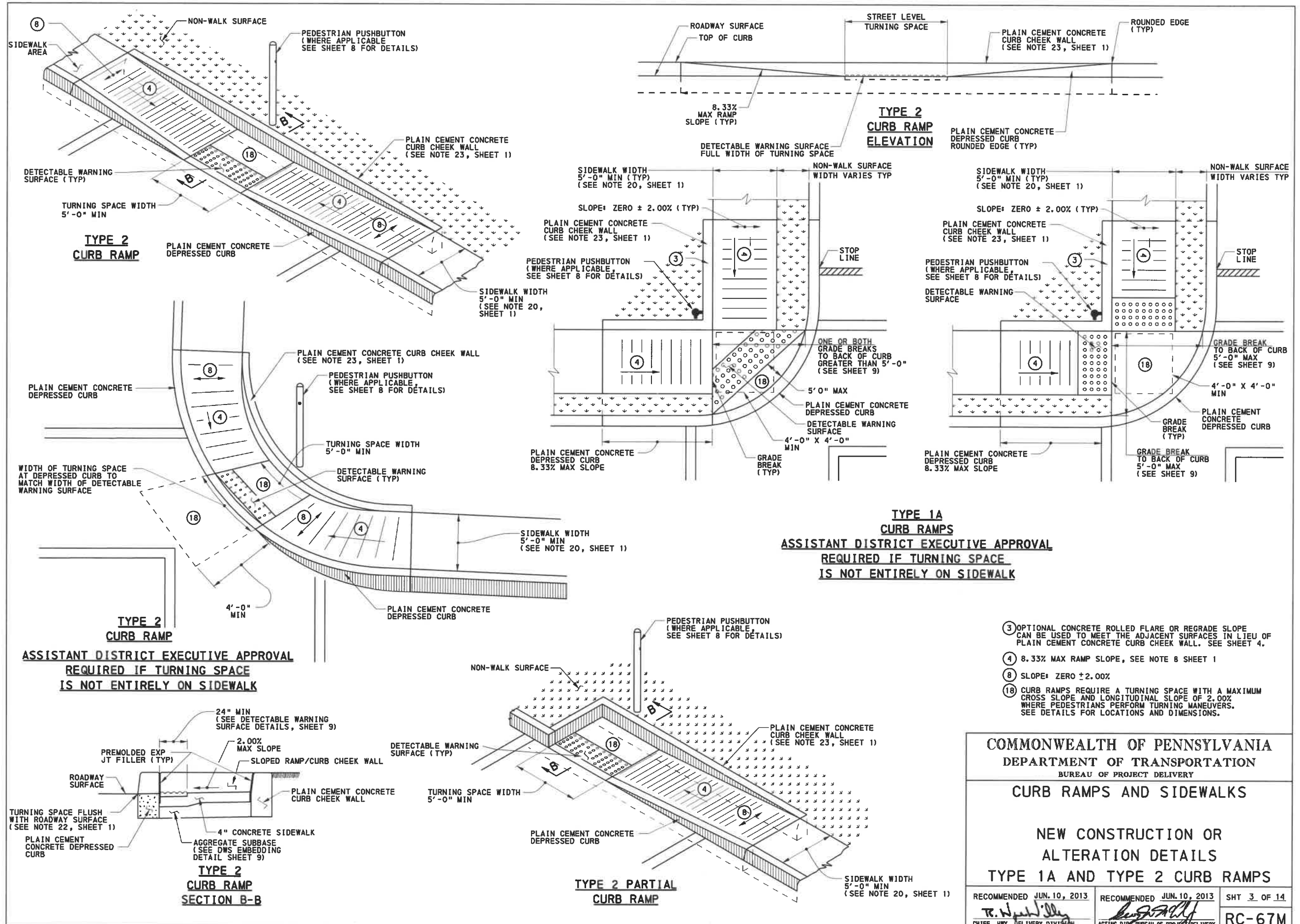
- ① SIDE FLARES 10.00% MAX SLOPE.
- ② IF THE TURNING SPACE IS INDICATED TO BE LESS THAN 4'-0", CONSTRUCT SIDE FLARES 8.33% MAX SLOPE.
- ③ OPTIONAL ROLLED CONCRETE SURFACE OR REGRADE SLOPE CAN BE USED TO MEET THE ADJACENT SURFACES IN LIEU OF A RETURN CURB CHEEK WALL.
- ④ 8.33% MAX RAMP SLOPE, SEE NOTE 8 SHEET 1.
- ⑧ CURB RAMPS REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.

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CURB RAMPS AND SIDEWALKS

NEW CONSTRUCTION OR
ALTERATION DETAILS
TYPE 1 AND TYPE 1A CURB RAMPS

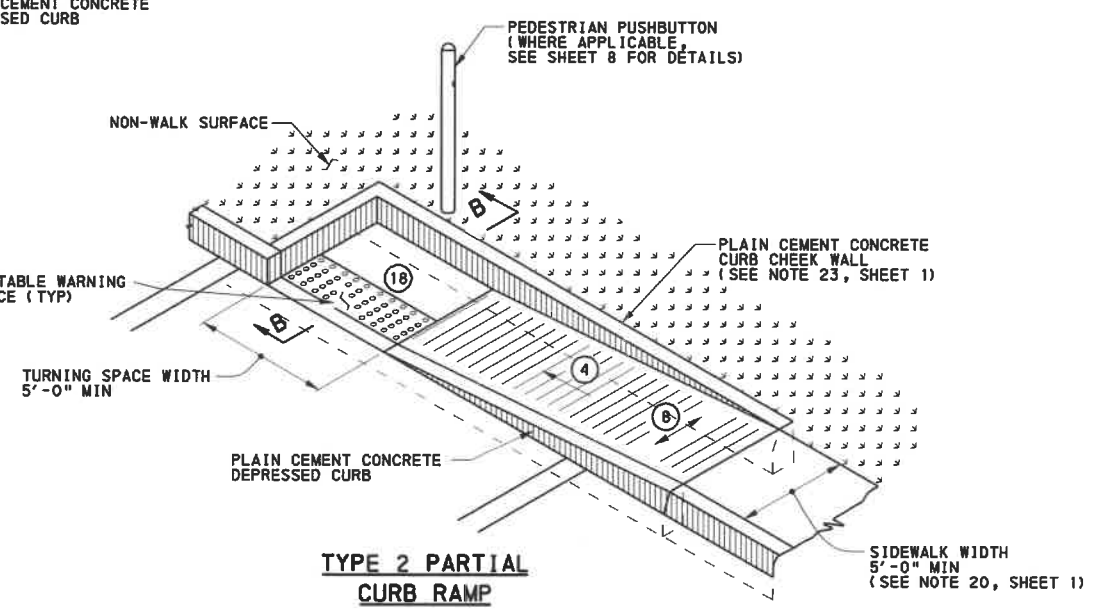
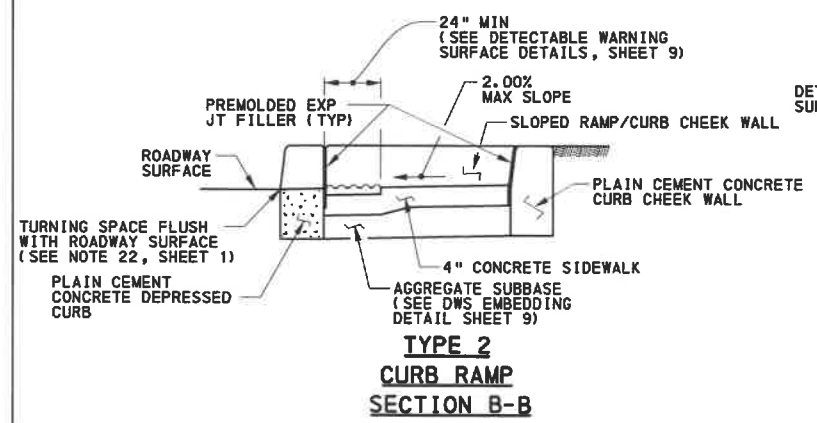
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TYPE 2 CURB RAMP
ASSISTANT DISTRICT EXECUTIVE APPROVAL
REQUIRED IF TURNING SPACE
IS NOT ENTIRELY ON SIDEWALK

TYPE 1A CURB RAMP
ASSISTANT DISTRICT EXECUTIVE APPROVAL
REQUIRED IF TURNING SPACE
IS NOT ENTIRELY ON SIDEWALK

- ③ OPTIONAL CONCRETE ROLLED FLARE OR REGRADE SLOPE CAN BE USED TO MEET THE ADJACENT SURFACES IN LIEU OF PLAIN CEMENT CONCRETE CURB CHEEK WALL. SEE SHEET 4.
- ④ 8.33% MAX RAMP SLOPE, SEE NOTE 8 SHEET 1
- ⑧ SLOPE: ZERO ± 2.00%
- ⑱ CURB RAMPS REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.

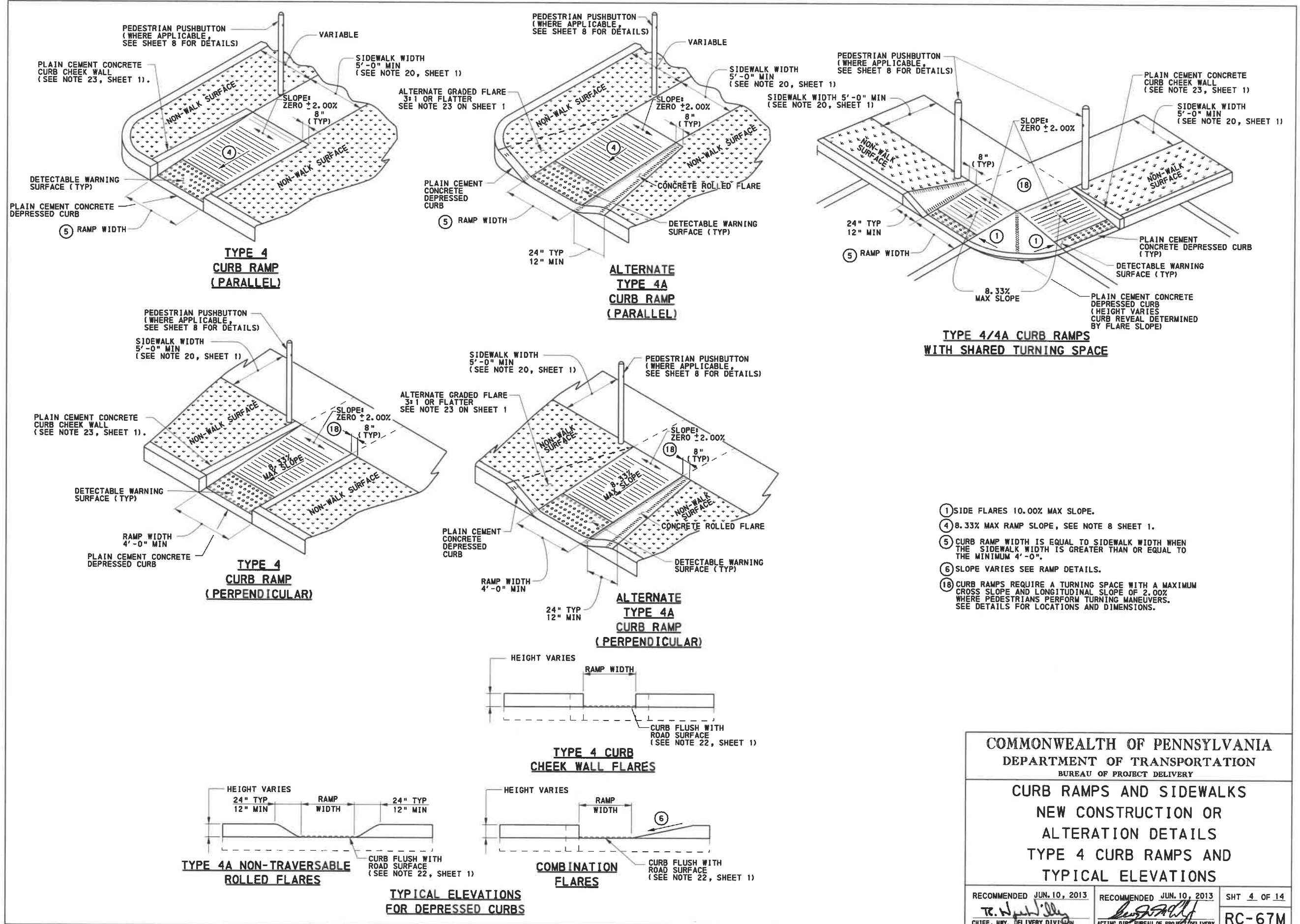


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DEPARTMENT OF TRANSPORTATION
 BUREAU OF PROJECT DELIVERY

CURB RAMPS AND SIDEWALKS

NEW CONSTRUCTION OR ALTERATION DETAILS
TYPE 1A AND TYPE 2 CURB RAMPS

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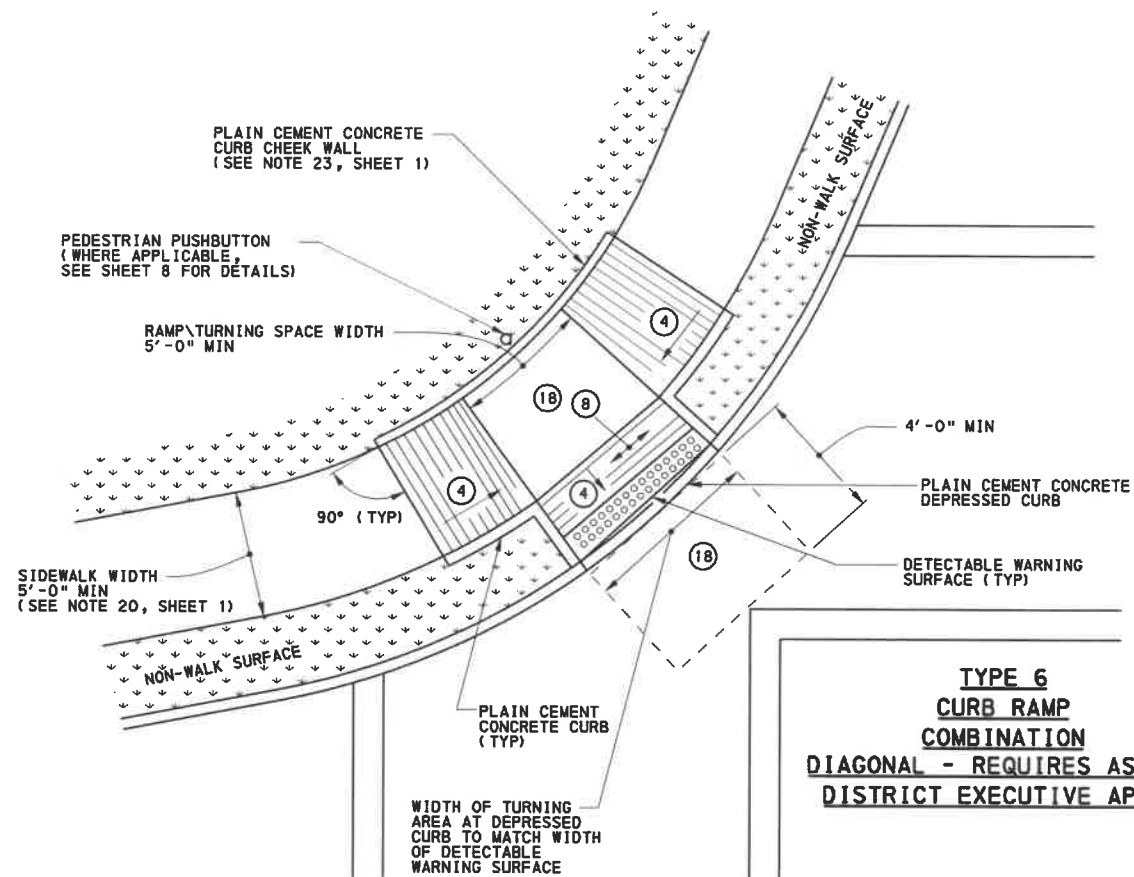


- ① SIDE FLARES 10.00% MAX SLOPE.
- ④ 8.33% MAX RAMP SLOPE, SEE NOTE 8 SHEET 1.
- ⑤ CURB RAMP WIDTH IS EQUAL TO SIDEWALK WIDTH WHEN THE SIDEWALK WIDTH IS GREATER THAN OR EQUAL TO THE MINIMUM 4'-0".
- ⑥ SLOPE VARIES SEE RAMP DETAILS.
- ⑧ CURB RAMPS REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.

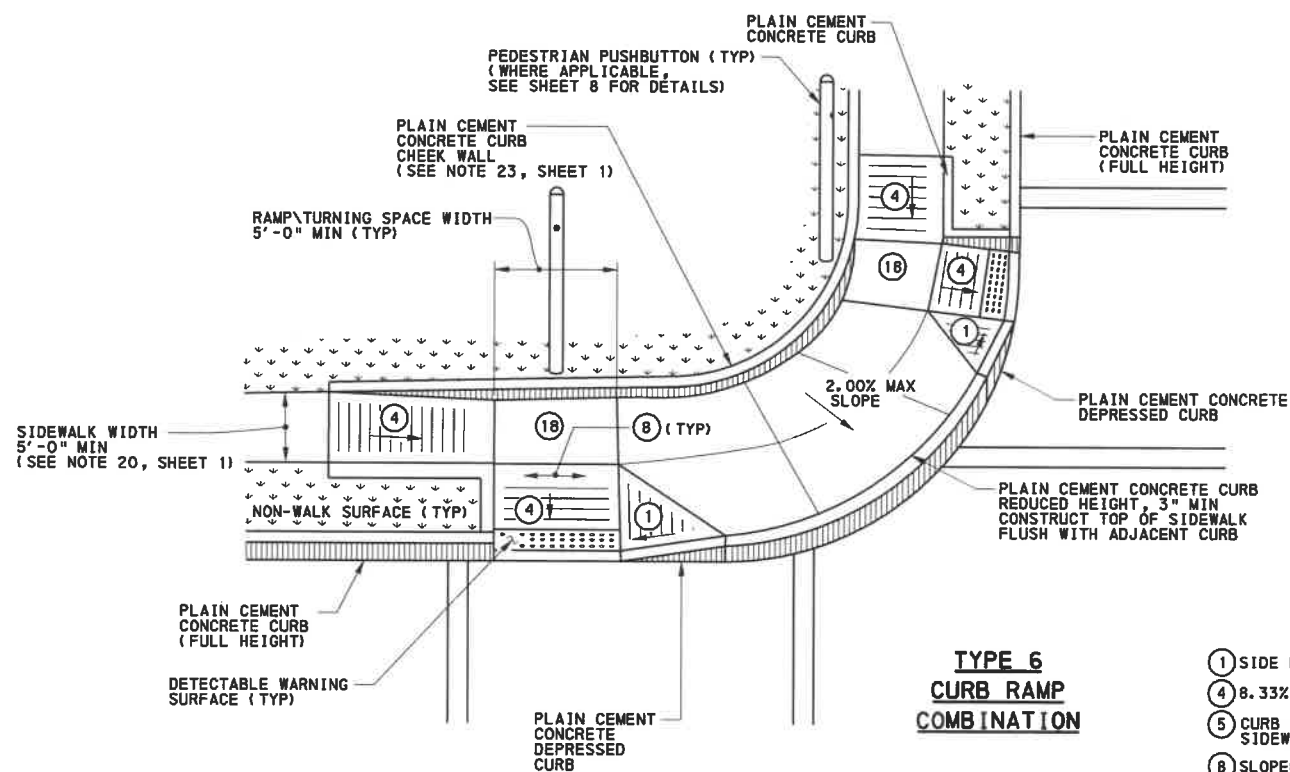
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DEPARTMENT OF TRANSPORTATION
 BUREAU OF PROJECT DELIVERY

CURB RAMPS AND SIDEWALKS
NEW CONSTRUCTION OR
ALTERATION DETAILS
TYPE 4 CURB RAMPS AND
TYPICAL ELEVATIONS

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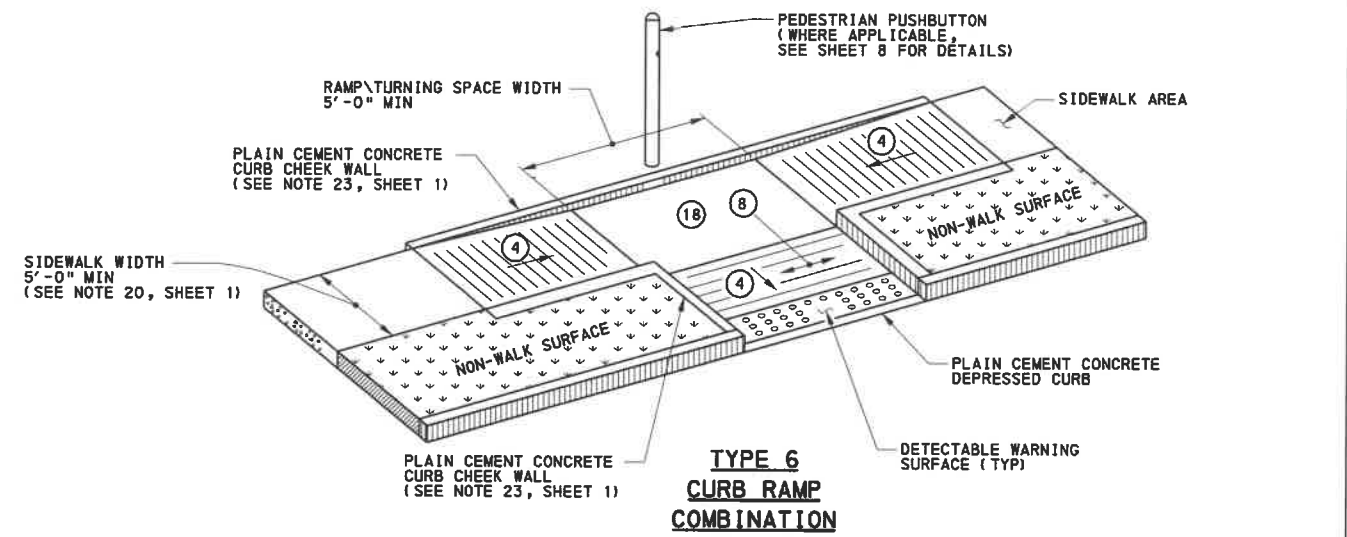


TYPE 6 CURB RAMP COMBINATION
DIAGONAL - REQUIRES ASSISTANT DISTRICT EXECUTIVE APPROVAL

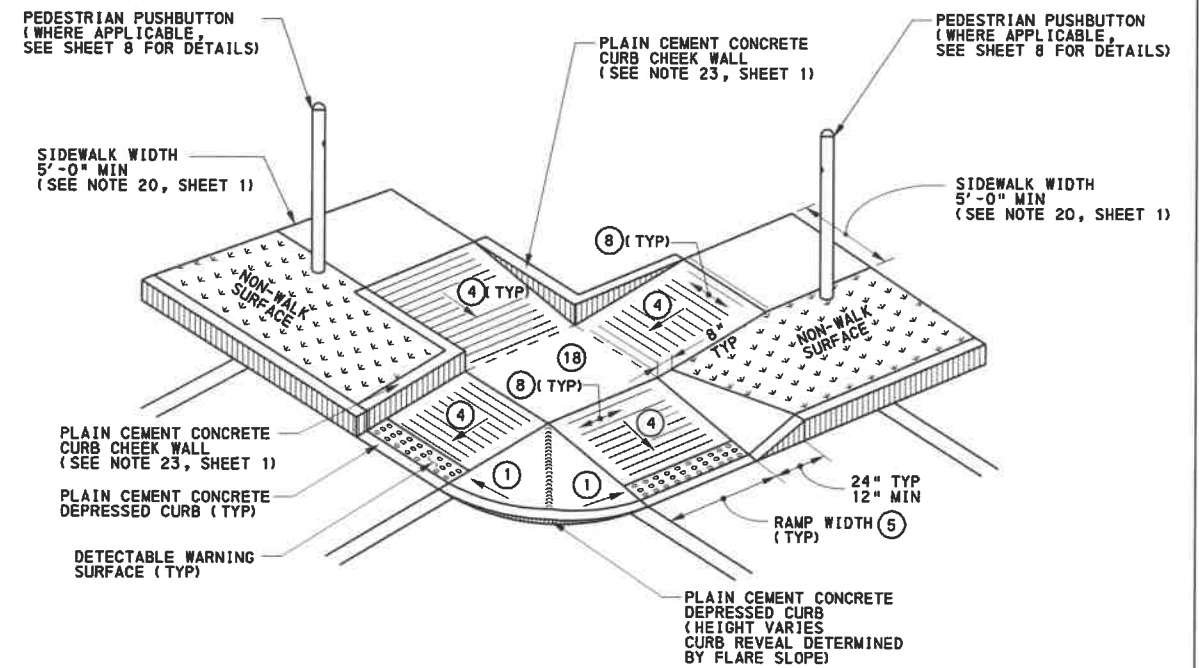


TYPE 6 CURB RAMP COMBINATION

- ① SIDE FLARES 10.00% MAX SLOPE.
- ④ 8.33% MAX RAMP SLOPE, SEE NOTE 8 SHEET 1.
- ⑤ CURB RAMP WIDTH IS EQUAL TO SIDEWALK WIDTH WHEN THE SIDEWALK WIDTH IS GREATER THAN OR EQUAL TO 4'-0".
- ⑧ SLOPE: ZERO ± 2.00%.
- ⑱ CURB RAMPS REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.



TYPE 6 CURB RAMP COMBINATION

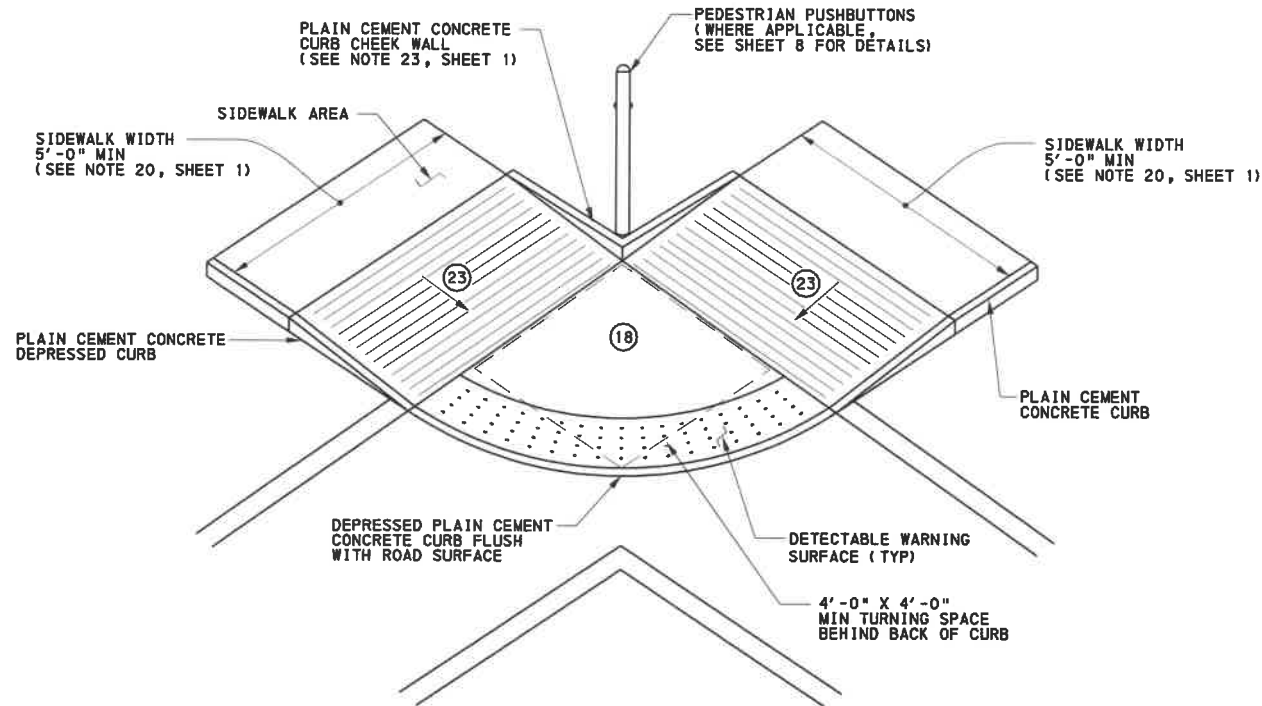


TYPE 6 CURB RAMPS WITH SHARED TURNING SPACE

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 DEPARTMENT OF TRANSPORTATION
 BUREAU OF PROJECT DELIVERY

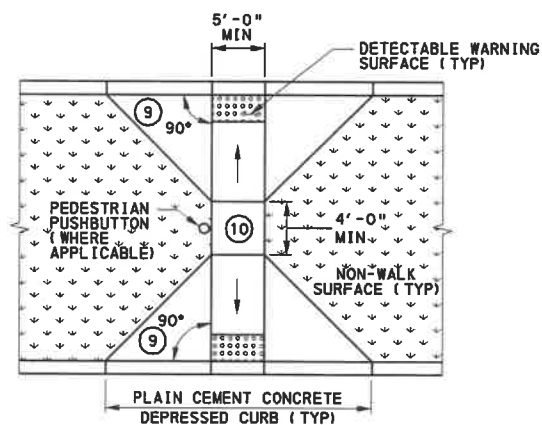
CURB RAMPS AND SIDEWALKS

NEW CONSTRUCTION OR ALTERATION DETAILS
TYPE 6 CURB RAMPS

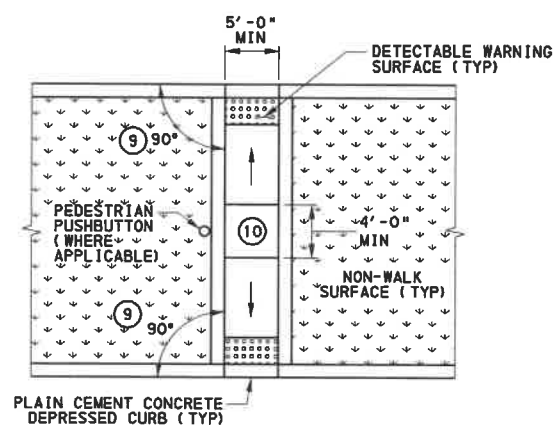


NOTE: DO NOT INSTALL GRATINGS, ACCESS COVERS AND OTHER APPURTENANCES ON THE BLENDED TRANSITION SURFACE WITHIN THE PEDESTRIAN ACCESS ROUTE. EXISTING UTILITY COVERS IN THE PATH OF TRAVEL ARE ACCEPTABLE IF THE TOP SURFACE IS FLUSH (LESS THAN 1/4" IN ELEVATION DIFFERENCE), FIRM, STABLE AND SLIP RESISTANT. INLET GRATINGS MUST HAVE OPENINGS NO GREATER THAN 1/2" IN DIRECTION OF TRAVEL.

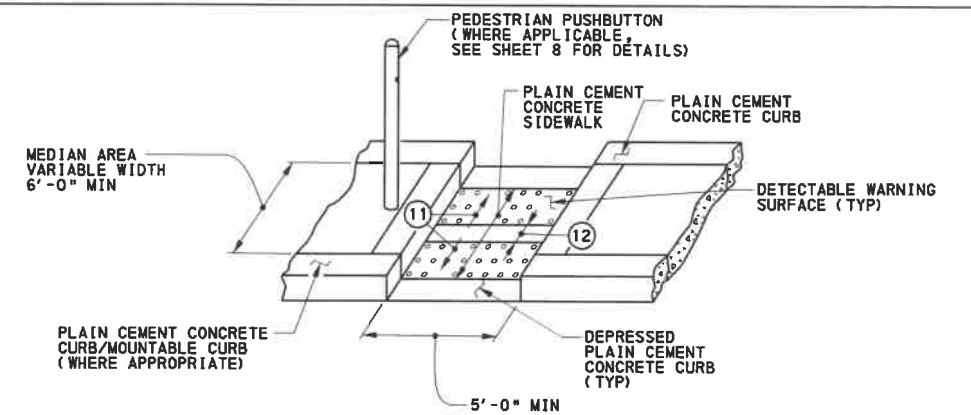
BLENDING TRANSITION



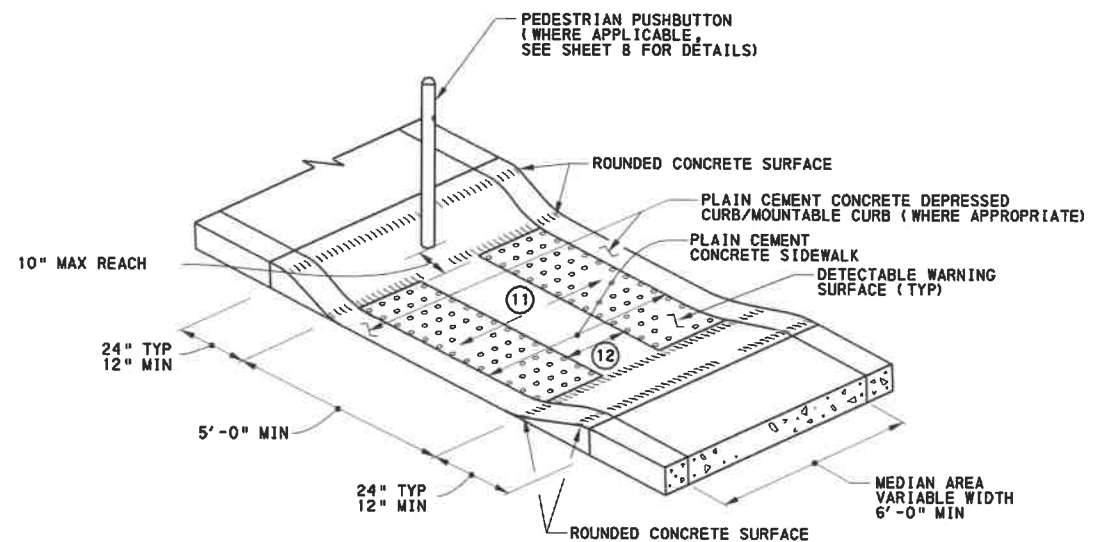
RAMPED MEDIAN OR ISLAND ACCESS OPENING (TYPE 1 DOUBLE CURB RAMPS)



RAMPED MEDIAN OR ISLAND ACCESS OPENING (TYPE A DOUBLE CURB RAMPS)



TYPE A TYPICAL MEDIAN OR ISLAND ACCESS OPENING WITH CURB SIDES (NARROW MEDIANS)



TYPE B TYPICAL MEDIAN OR ISLAND ACCESS OPENING WITH FLARED SIDES (NARROW MEDIANS)

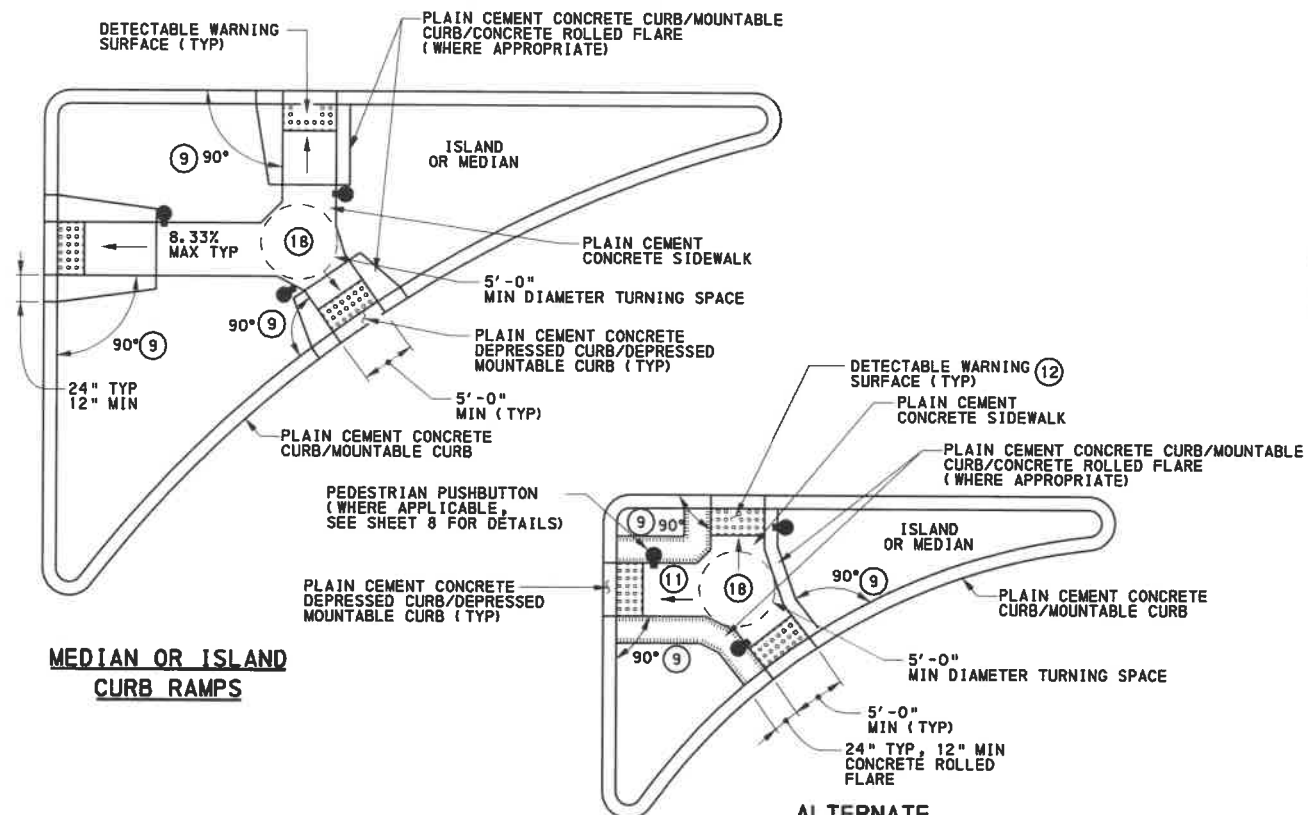
- 9 90° DESIRABLE.
- 10 TURNING SPACES ARE NOT REQUIRED FOR LONGITUDINAL SLOPES 5.00% OR LESS.
- 11 PROVIDE ADEQUATE SLOPE FOR DRAINAGE (5.00% MAX).
- 12 2'-0" MIN SEPARATION. DO NOT INSTALL DETECTABLE WARNING SURFACES IF SEPARATION IS LESS THAN 2'-0". REFER TO DM-2 CHAPTER 6 FOR ADDITIONAL DETAILS.
- 18 CURB RAMPS REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.
- 23 5.00% MAX RUNNING SLOPE FOR BLENDED TRANSITION. FOR SLOPES GREATER THAN 5.00% SEE TYPE 2 CURB RAMPS ON SHEET 3 FOR ADDITIONAL DETAILS.

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CURB RAMPS AND SIDEWALKS

NEW CONSTRUCTION OR
ALTERATION DETAILS
BLENDING TRANSITION / MEDIANS

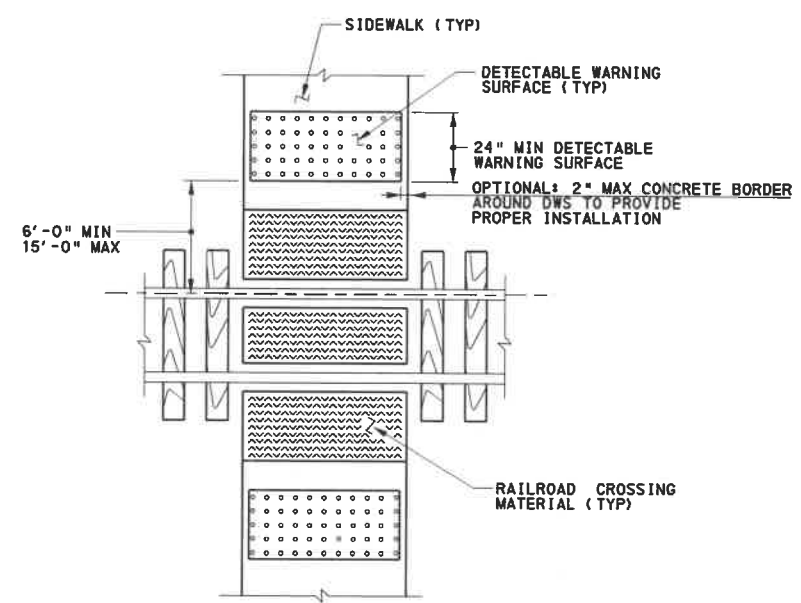
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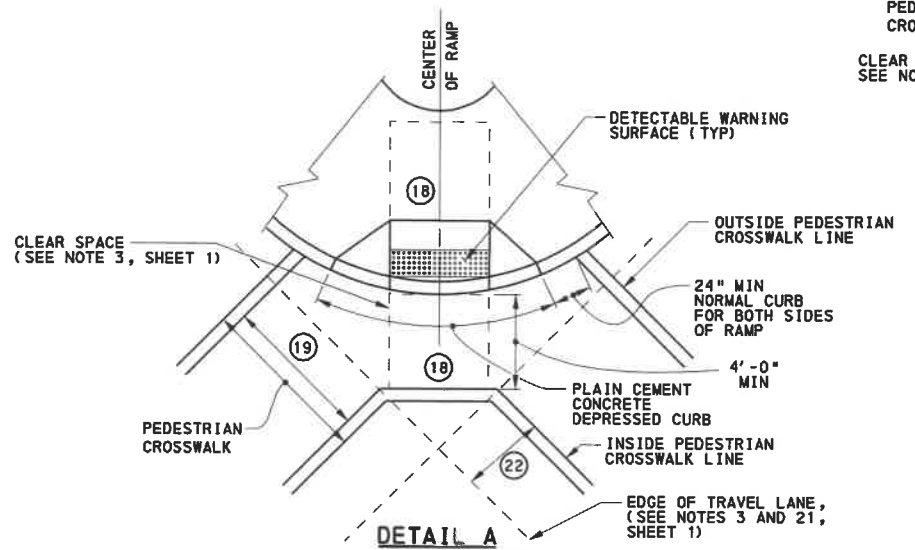
MEDIAN OR ISLAND CURB RAMPS

ALTERNATE SMALL ISLAND WITH CUT THROUGH

- ⑨ 90° DESIRABLE.
- ⑪ PROVIDE ADEQUATE SLOPE FOR DRAINAGE (5.00% MAX).
- ⑫ 2'-0" MIN SEPARATION. DO NOT INSTALL DETECTABLE WARNING SURFACES IF SEPARATION IS LESS THAN 2'-0".
- ⑬ CURB RAMPS REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.
- ⑭ 6'-0" MIN MEASURED FROM INSIDE OF PAINTED EDGE TO INSIDE OF PAINTED EDGE.
- ⑮ THE INSIDE PEDESTRIAN CROSSWALK LINES MUST BE OUTSIDE OF THE PARALLEL VEHICLE TRAVEL LANE.

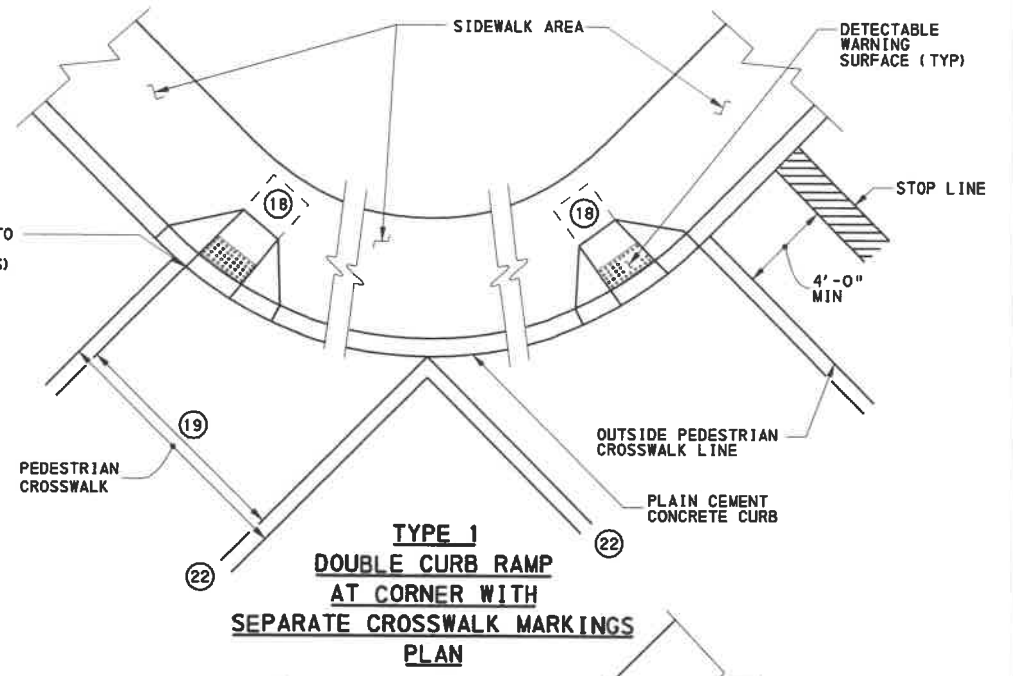


TYPICAL DETECTABLE WARNING SURFACE AT RAILROAD CROSSING

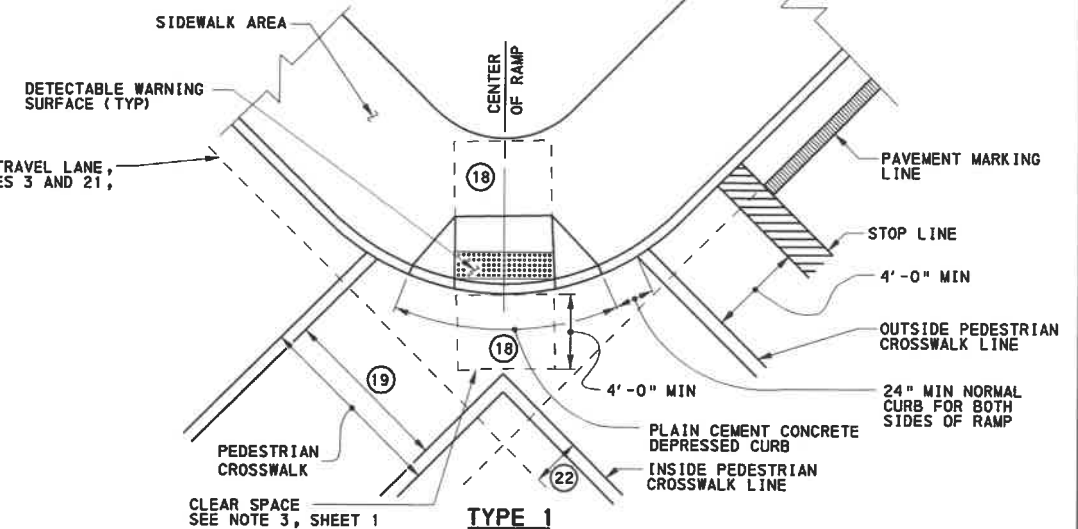


DETAIL A CLEAR SPACE AT CROSSWALK MARKINGS (DIAGONAL - REQUIRES ASSISTANT DISTRICT EXECUTIVE APPROVAL)

FOR CURB RAMPS THAT LEAD TO A SINGLE CROSSWALK, THE RAMP (EXCLUDING FLARES) TO BE FULLY INSIDE OF MARKED CROSSWALK LINES



TYPE 1 DOUBLE CURB RAMP AT CORNER WITH SEPARATE CROSSWALK MARKINGS PLAN

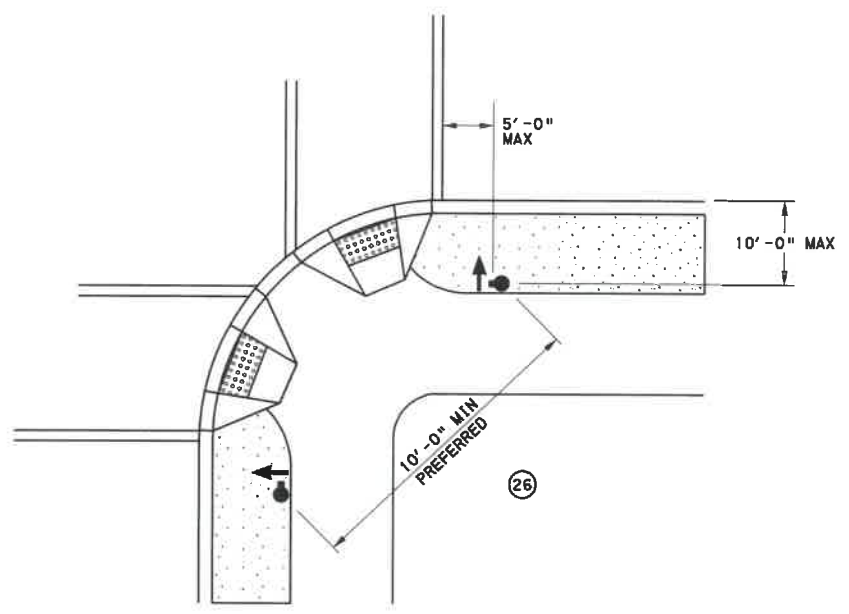


TYPE 1 SINGLE CURB RAMP AT CORNER WITH CROSSWALK MARKINGS PLAN (DIAGONAL - REQUIRES ASSISTANT DISTRICT EXECUTIVE APPROVAL)

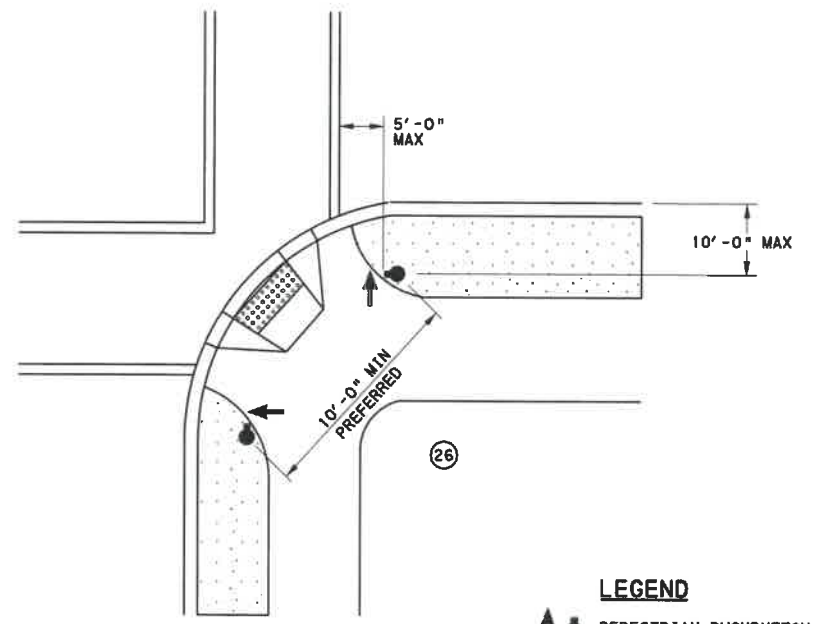
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
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**CURB RAMPS AND SIDEWALKS
 NEW CONSTRUCTION OR ALTERATION DETAILS
 CROSSWALKS, MEDIANS,
 RAILROAD CROSSING
 DETECTABLE WARNING SURFACE**

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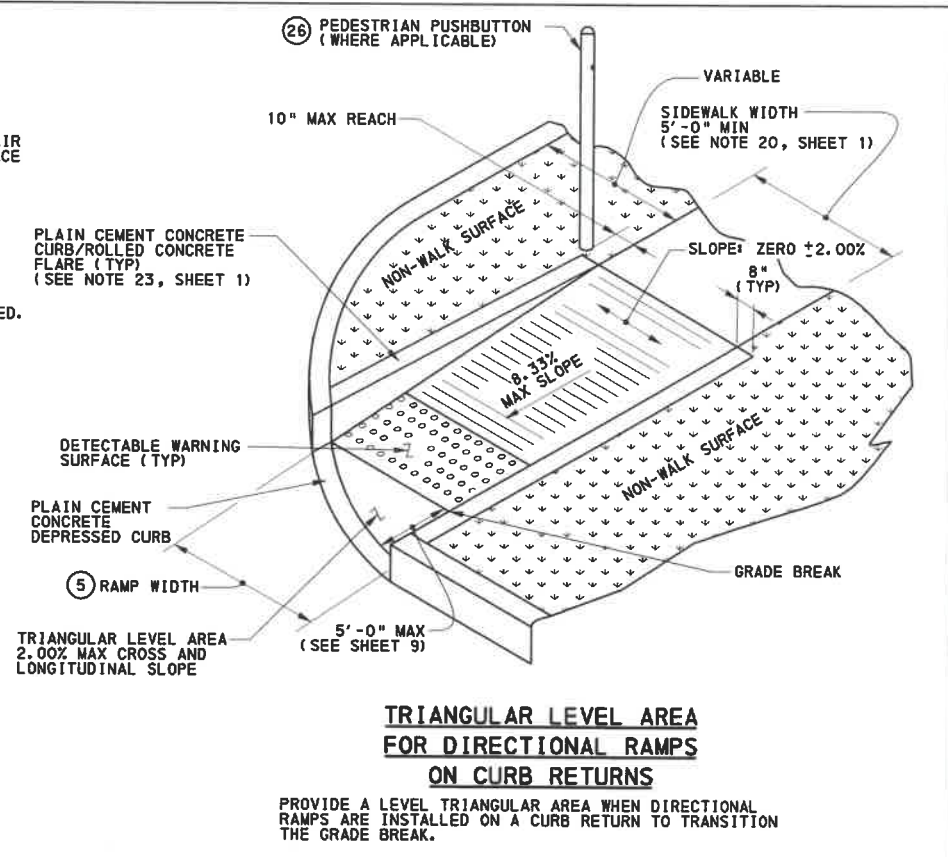
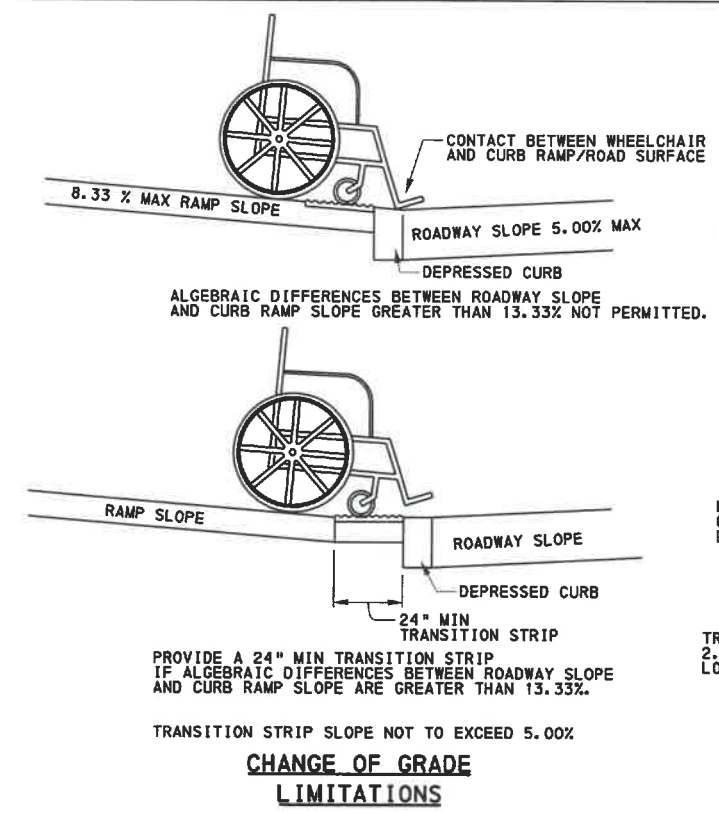


RECOMMENDED PUSHBUTTON LOCATIONS



RECOMMENDED PUSHBUTTON LOCATIONS

LEGEND
 ↑ ● PEDESTRIAN PUSHBUTTON

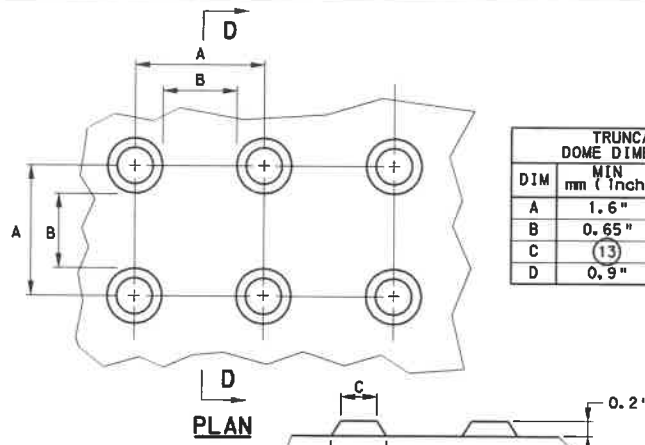
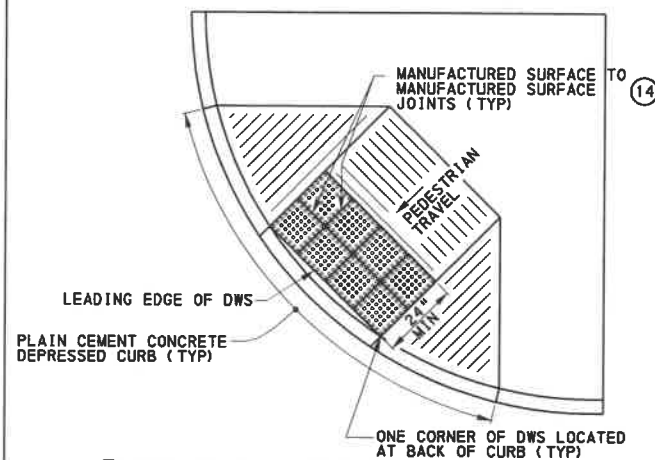


RAMP CROSS SLOPE TRANSITION TO MATCH ROADWAY PROFILE SLOPE
 * SLOPES SHOWN ARE FOR ILLUSTRATION ONLY.
 TRANSITION CURB RAMP CROSS SLOPE TO MATCH ROADWAY PROFILE, AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3.00% PER 1'-0" CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
 COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE OR USE 1'-0" DETECTABLE WARNING SURFACE TILES.
 CONSTRUCT DEPRESSED CURB SLOPE TO MATCH ROADWAY PROFILE.

- 5 CURB RAMP WIDTH IS EQUAL TO SIDEWALK WIDTH WHEN THE SIDEWALK WIDTH IS GREATER THAN OR EQUAL TO 4'-0".
- 26 NEW CONSTRUCTION MUST COMPLY WITH RECOMMENDED LOCATIONS. FOR ALTERATION PROJECTS LOCATE PEDESTRIAN PUSHBUTTONS, TO THE MAXIMUM EXTENT FEASIBLE, AS FOLLOWS:
 - ADJACENT TO A LEVEL NON-SLIP SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS A NON-SLIP WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
 - WITHIN 5'-0" OF THE CROSSWALK EXTENDED.
 - BETWEEN 1'-6" AND 10'-0" OF THE EDGE OF CURB, SHOULDER OR PAVEMENT.
 - PARALLEL TO THE CROSSWALK TO BE USED.

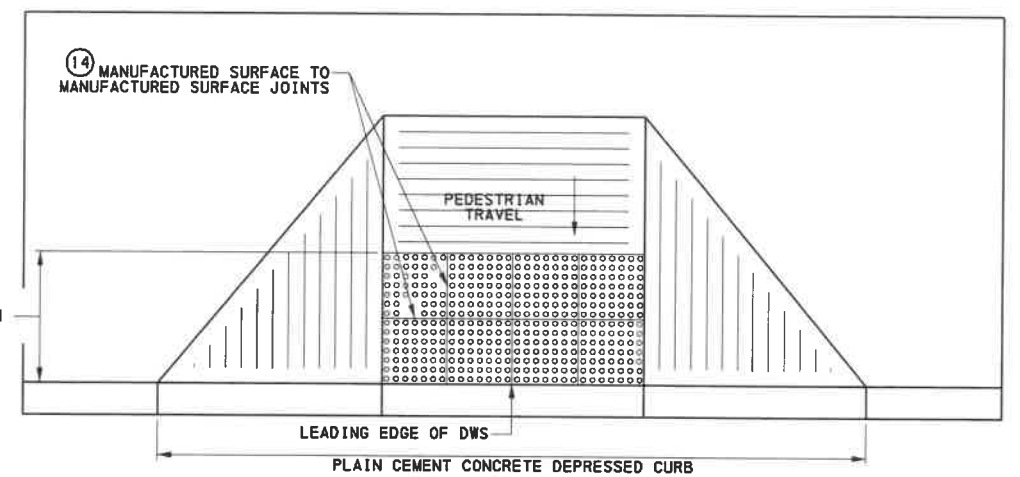
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BUREAU OF PROJECT DELIVERY		
CURB RAMPS AND SIDEWALKS NEW CONSTRUCTION OR ALTERATION DETAILS PUSHBUTTONS, TRIANGULAR LEVEL AREA, CHANGE OF GRADE AND CROSS SLOPE TRANSITIONS		
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SEE NOTE 3 ON SHEET 1 CONCERNING DIAGONAL RAMPS

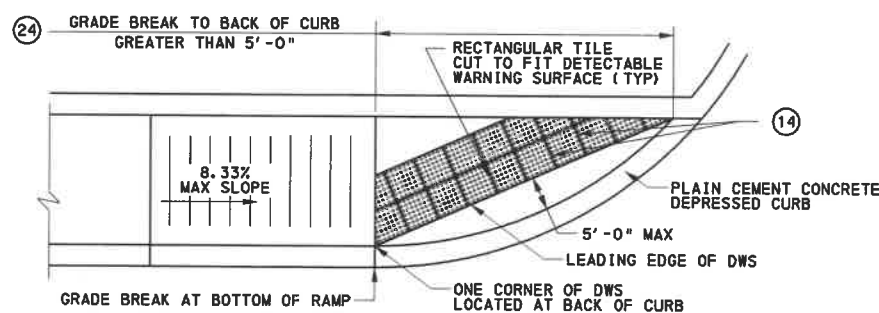
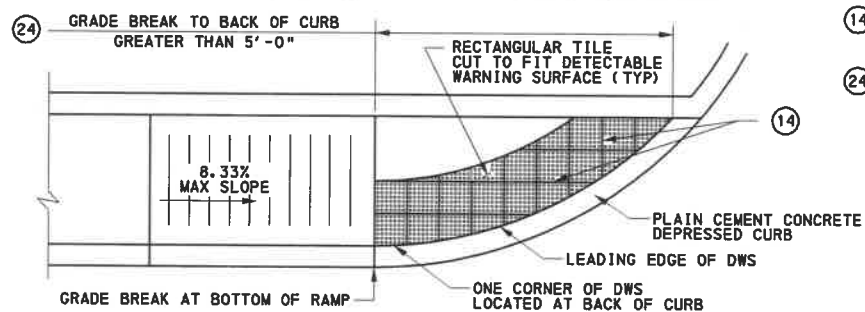
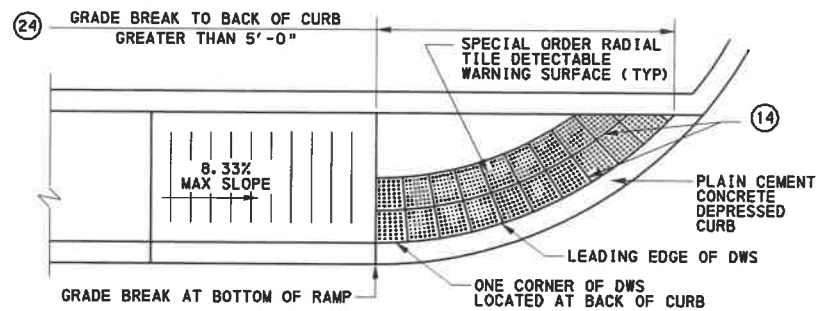
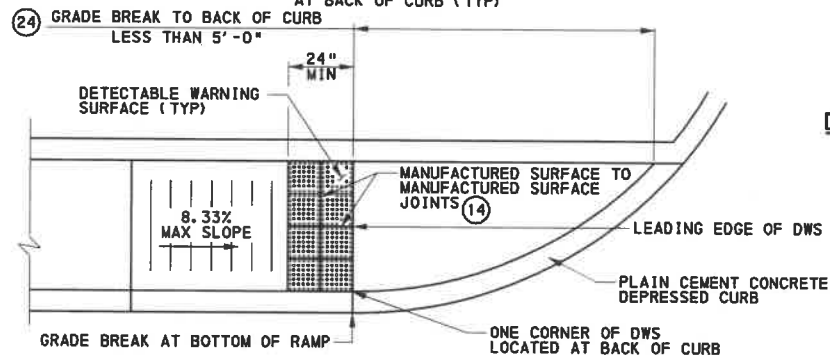


SECTION D-D

DETECTABLE WARNING SURFACE (DWS)
TRUNCATED DOME DETAILS

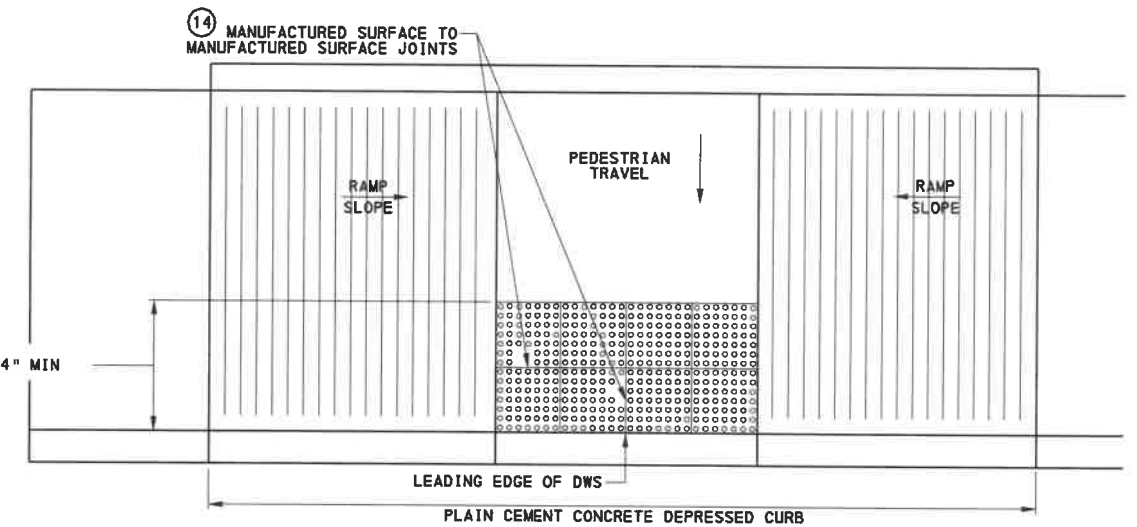


DETECTABLE WARNING SURFACE (DWS)
ON TYPE 1 CURB RAMP

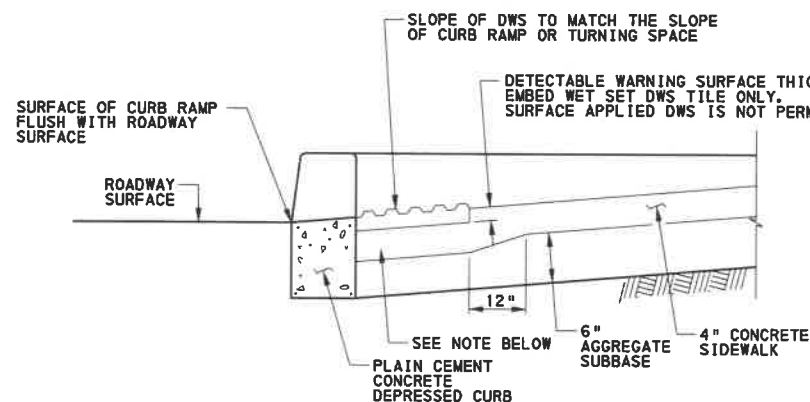


DETECTABLE WARNING SURFACE (DWS)
ON CURVED SURFACES

- (13) THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.
- (14) PLACE ADJACENT DWS TILES WITH MANUFACTURED SURFACE TO MANUFACTURED SURFACE. CUT TILES ALONG THE PERIMETER ONLY.
- (24) LOCATE ONE CORNER OF THE DWS AT THE BACK OF CURB. NO OTHER POINT ON THE LEADING EDGE OF THE DWS MAY BE MORE THAN 5'-0" AWAY FROM THE BACK OF CURB.



DETECTABLE WARNING SURFACE (DWS)
ON TYPE 2 CURB RAMP



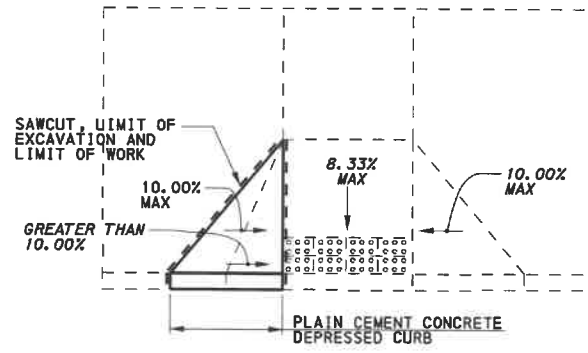
NOTES:
CONSTRUCT NOTCH AS SHOWN TO PROVIDE FULL THICKNESS SIDEWALK UNDER DETECTABLE WARNING SURFACE.
OPTIONAL: CONSTRUCT 2" MAX CONCRETE BORDER AROUND DWS TO PROVIDE PROPER INSTALLATION. SEE PEDESTRIAN PUSHBUTTON ACCESS AREAS DETAIL ON SHEET 14, FOR PLAN VIEW DETAILS.

DETECTABLE WARNING SURFACE
EMBEDDING DETAIL

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY
CURB RAMPS AND SIDEWALKS

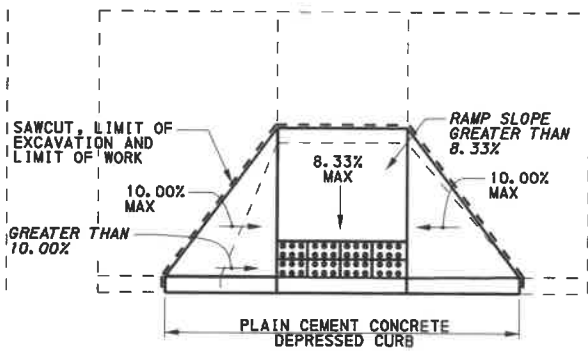
NEW CONSTRUCTION OR
ALTERATION DETAILS
DETECTABLE WARNING SURFACE

RECOMMENDED JUN. 10, 2013
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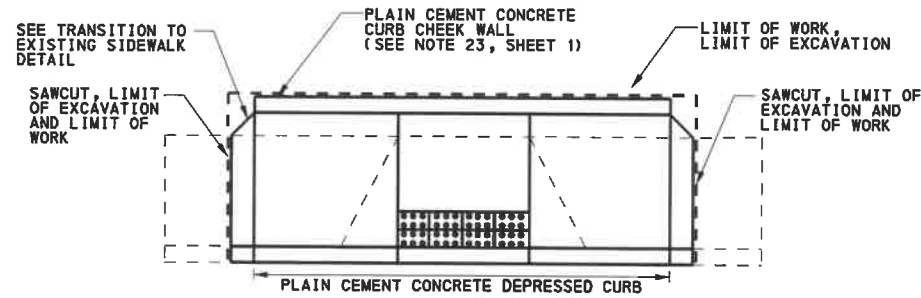
DETAIL ILLUSTRATES FLARE REMOVAL AND REPLACEMENT.

SIDE FLARE RECONSTRUCTION



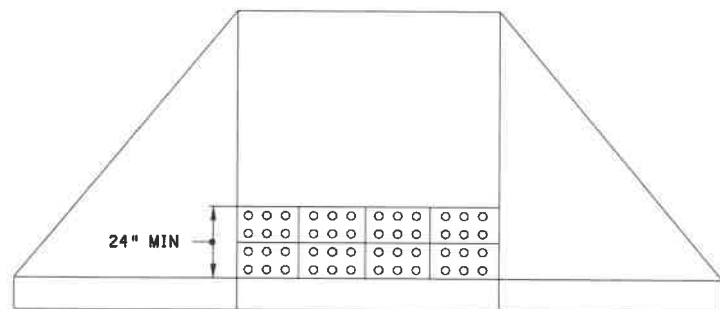
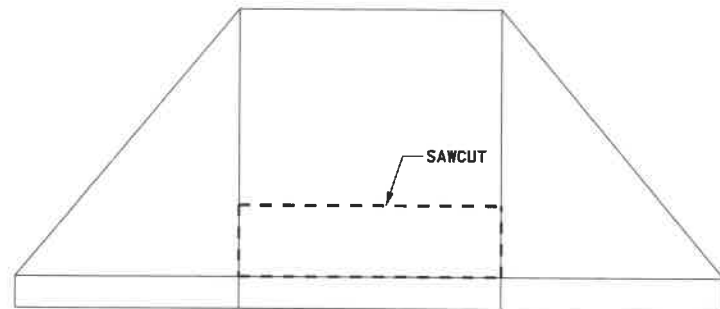
DETAIL ILLUSTRATES CURB RAMP (INCLUDING FLARES) REPLACEMENT.

TOTAL RAMP RECONSTRUCTION

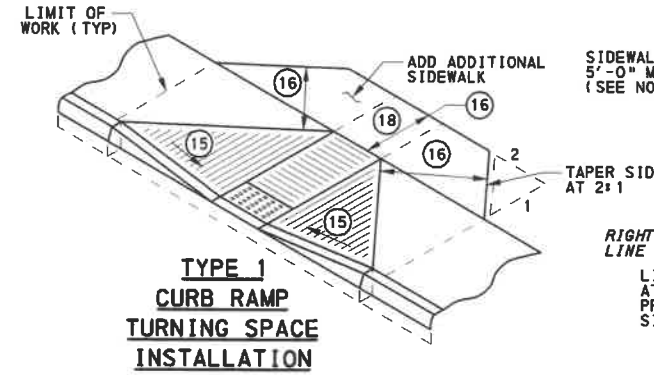


DETAIL ILLUSTRATES A TYPE 1 EXISTING RAMP REPLACED WITH A TYPE 2 RAMP. USE THIS DETAIL AS AN EXAMPLE TO REPLACE ANY RAMP WITH A DIFFERENT CURB RAMP TYPE.

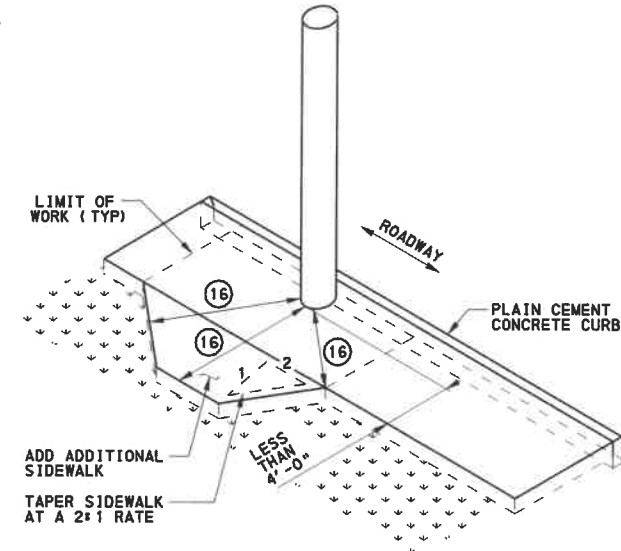
TOTAL RAMP RECONSTRUCTION (RAMP TYPE CHANGE)



DETECTABLE WARNING SURFACE (DWS) INSTALLATION DETAIL



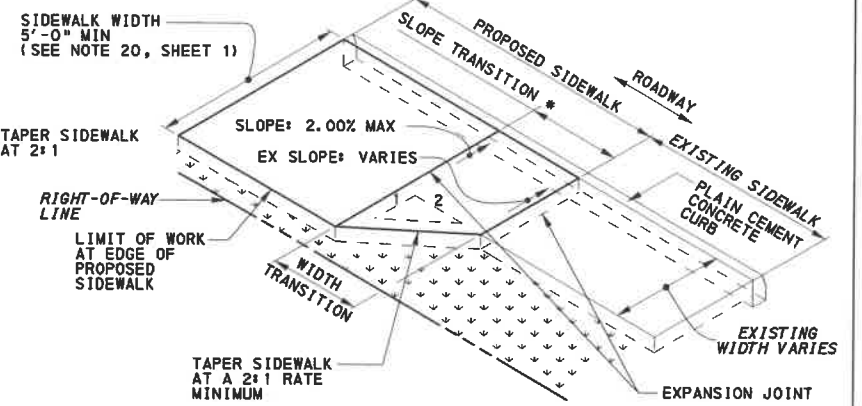
TYPE 1 CURB RAMP TURNING SPACE INSTALLATION



SIDEWALK ADDITION DUE TO OBSTRUCTIONS

DETECTABLE WARNING SURFACE (DWS) INSTALLATION INSTRUCTIONS

1. SAW CUT EXISTING CURB RAMP SURFACE WHERE THE DWS WILL BE PLACED.
2. REMOVE EXISTING CONCRETE FROM THIS AREA.
3. REPLACE AND COMPACT ANY DISTURBED AGGREGATE SUBBASE.
4. PLACE NEW CEMENT CONCRETE AND LEVEL TO A 4 INCH DEPTH SO THAT THE TOP OF THE CONCRETE IS LOWER THAN THE ADJOINING SIDEWALK, EQUIVALENT TO THE EMBEDDING DEPTH OF THE DWS MATERIAL.
5. LAY OUT AND PROPERLY FIT EACH UNIT PRIOR TO SETTING IN WET CONCRETE.
6. CUT UNITS AS NECESSARY ALONG PERIMETER OF DETECTABLE WARNING SURFACE.
7. PLACE UNITS ACROSS THE ENTIRE WIDTH OF THE CURB RAMP SURFACE AND/OR WHERE THE CURB IS FLUSH.
8. PRESS UNITS INTO FULL CONTACT WITH THE FRESH CONCRETE.
9. ADJUST HEIGHT OF EACH UNIT EDGE TO BE LEVEL WITH ADJACENT RAMP SURFACES.
10. ONLY TRUNCATED DOMES SHOULD BE ABOVE THE ADJACENT FINISHED CONCRETE.
11. FILL ANY SAW CUT GAPS WITH APPROVED JOINT SEALANT MATERIAL.



TRANSITION TO EXISTING SIDEWALK DETAIL

* MINIMUM SLOPE TRANSITION LENGTH BASED ON THE DIFFERENCE OF PROPOSED SIDEWALK CROSS SLOPE AND EXISTING SIDEWALK CROSS SLOPE AT THE LOCATION OF TIE IN. THIS MINIMUM LENGTH TO BE DETERMINED BY THE FOLLOWING FORMULA:
 $\Delta \% \text{ SLOPE} \times 0.5'$

THE MINIMUM WIDTH TRANSITION SHALL BE CALCULATED USING THE FOLLOWING FORMULA:
 $\text{CHANGE IN WIDTH} \times 2$

DEPENDING ON WHICH IS LONGEST, EITHER THE SLOPE TRANSITION OR WIDTH TRANSITION WILL CONTROL THE LENGTH OF SIDEWALK TRANSITION.

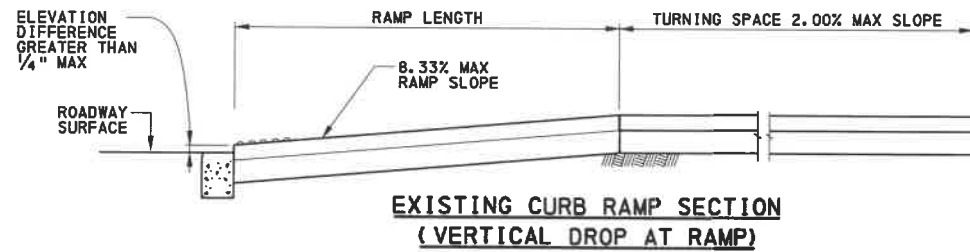
TRANSITION AREAS SERVE AS TEMPORARY CONNECTIONS OF THE PEDESTRIAN ACCESS ROUTE. FUTURE IMPROVEMENTS TO THE REMAINING PORTION OF EXISTING SIDEWALK SHALL INCLUDE REMOVING THE TRANSITION AREA AND CONSTRUCTING A FULLY COMPLIANT SIDEWALK.

15 SIDE FLARES 10.00% MAX FOR RAMPS WITH TURNING SPACES 4'-0" OR GREATER.
 SIDE FLARES 8.33% MAX FOR RAMPS WITH TURNING SPACES LESS THAN 4'-0".

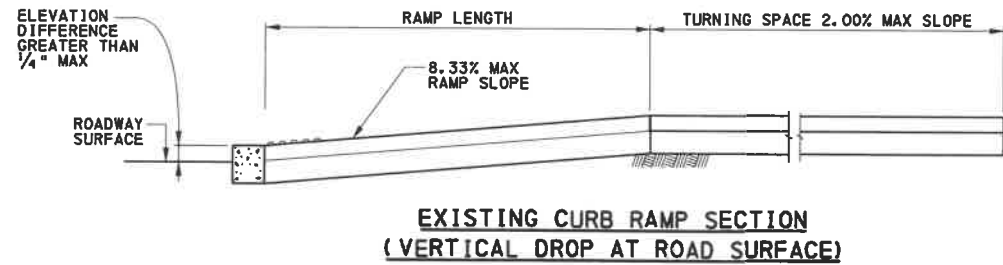
16 4'-0" MIN PEDESTRIAN ACCESS ROUTE.

18 CURB RAMPS REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF PROJECT DELIVERY
CURB RAMPS AND SIDEWALKS
 ALTERATION DETAILS

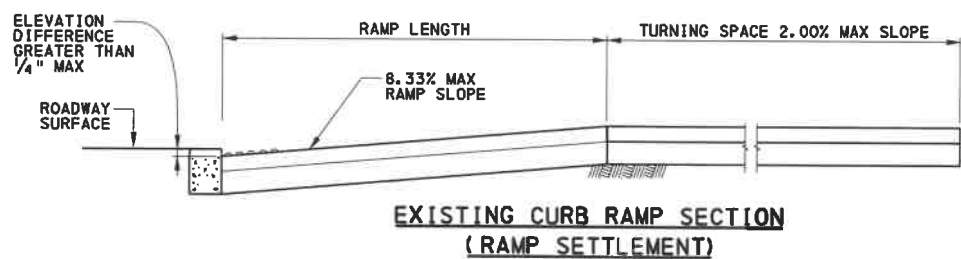


RECOMMENDED CORRECTION:
RECONSTRUCT THE ENTIRE (OR PORTIONS OF) RAMP, TURNING SPACES AND FLARES WHERE APPLICABLE
(SEE RAMP RECONSTRUCTION DETAIL ON SHEET 10).



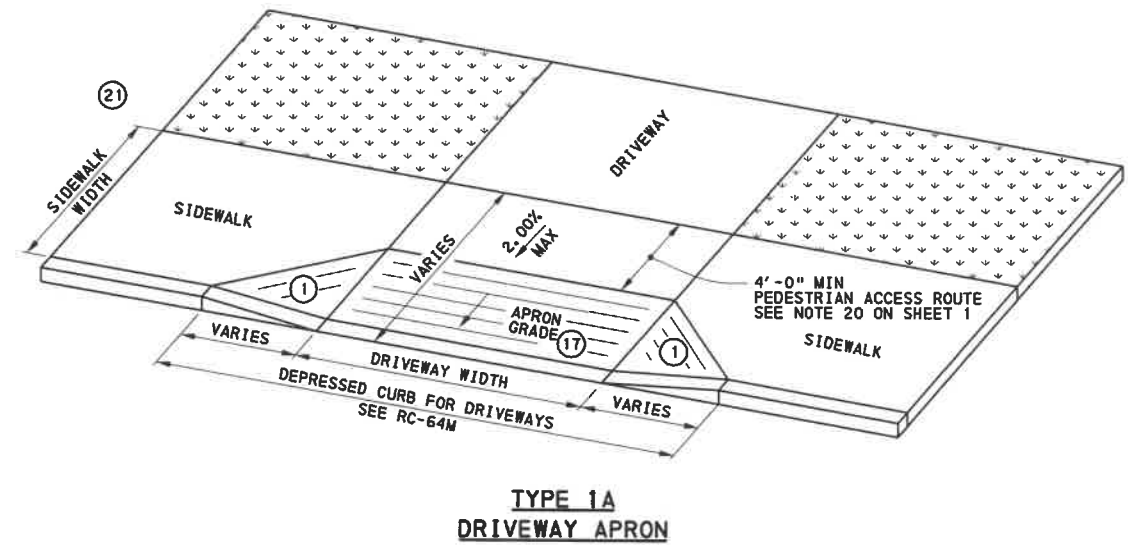
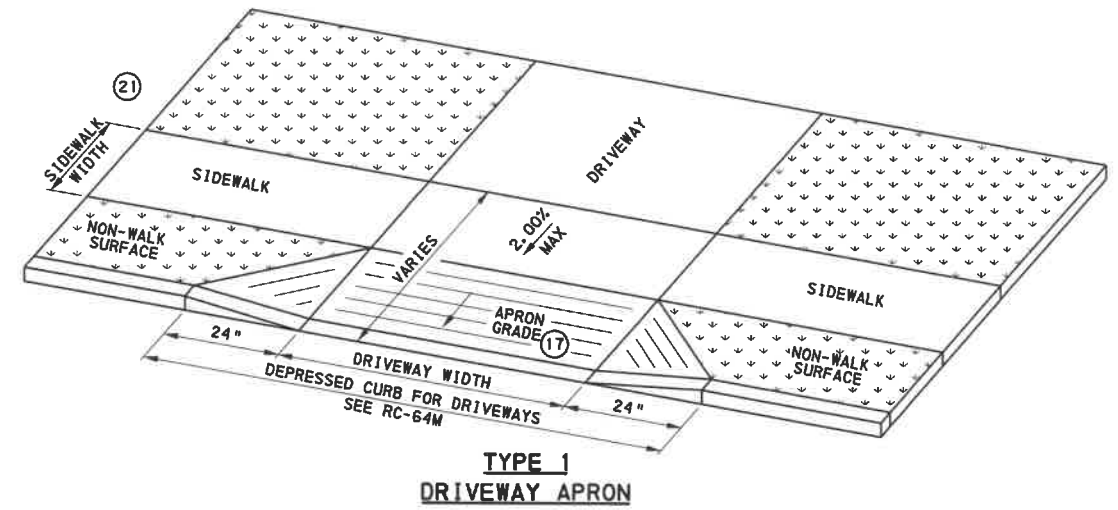
RECOMMENDED CORRECTION:
RECONSTRUCT THE ENTIRE (OR PORTIONS OF) RAMP, TURNING SPACES AND FLARES WHERE APPLICABLE
(SEE RAMP RECONSTRUCTION DETAIL ON SHEET 10).

ALTERNATE CORRECTION:
GRIND CURB TO PROVIDE A MAX SLOPE OF 8.33%, FINISHED SURFACE MUST NOT HAVE ELEVATION DIFFERENCES GREATER THAN 1/4".



RECOMMENDED CORRECTION:
RECONSTRUCT THE ENTIRE (OR PORTIONS OF) RAMP, TURNING SPACES AND FLARES WHERE APPLICABLE
(SEE RAMP RECONSTRUCTION DETAIL ON SHEET 10).

ALTERATION DETAILS



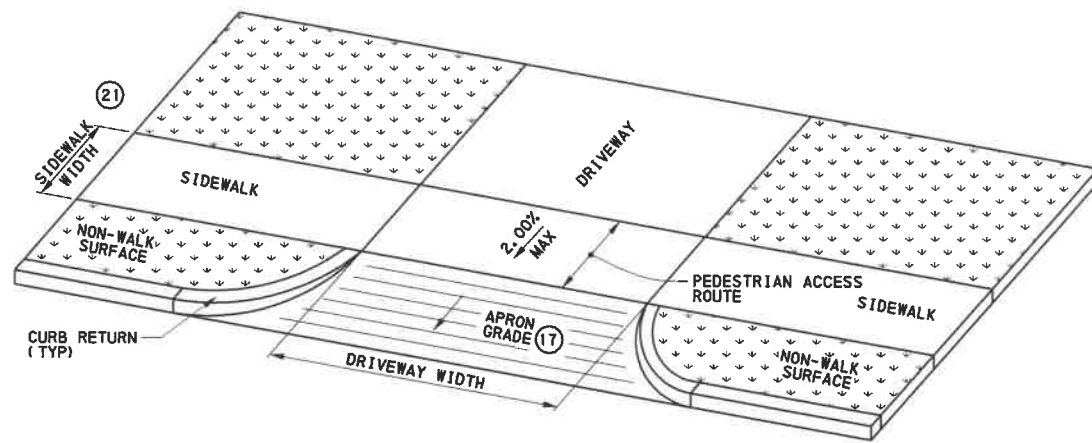
- ① SIDE FLARES 10.00% MAX SLOPE.
- ①7 8.00% MAX CHANGE IN GRADE BETWEEN ROAD SURFACE AND DRIVEWAY.
- ②1 MINIMUM SIDEWALK WIDTH 5'-0" (SEE NOTE 20, SHEET 1).

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
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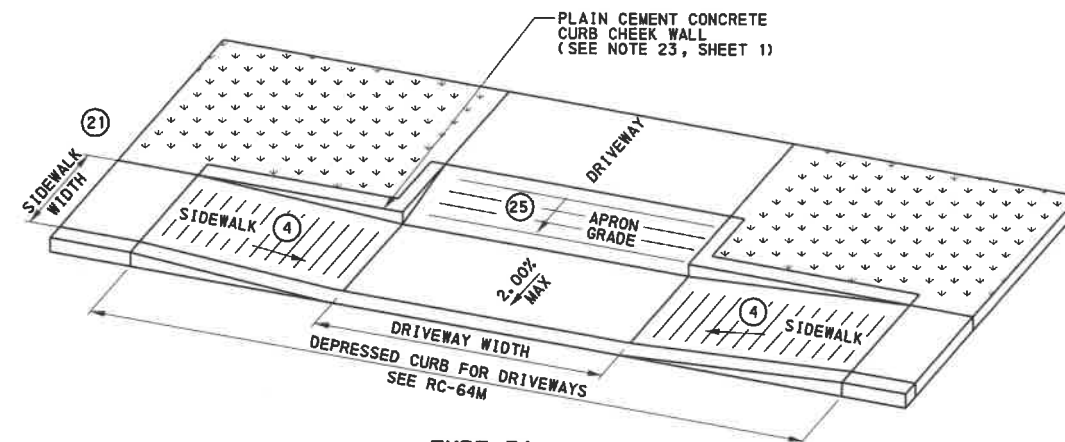
CURB RAMPS AND SIDEWALKS

**ALTERATION DETAILS
AND DRIVEWAY APRONS**

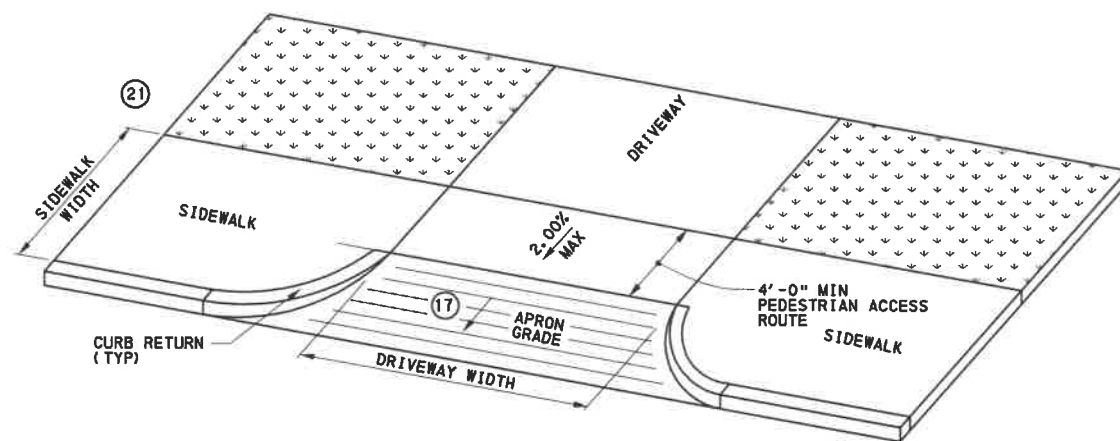
RECOMMENDED JUN. 10, 2013 <i>R. W. [Signature]</i> CHIEF, HWY. DELIVERY DIVISION	RECOMMENDED JUN. 10, 2013 <i>[Signature]</i> ACTING DIR. BUREAU OF PROJECT DELIVERY	SHT 11 OF 14 RC-67M
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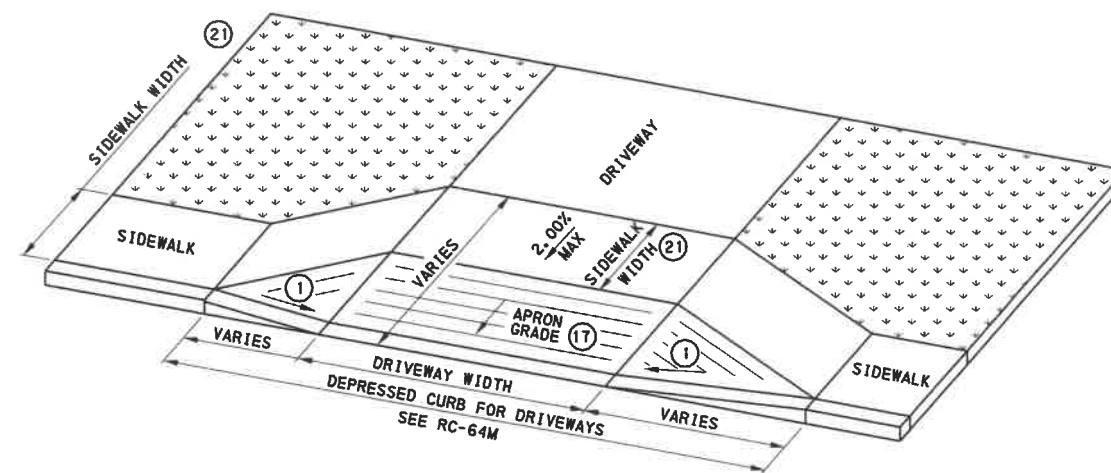
**TYPE 2
DRIVEWAY APRON**



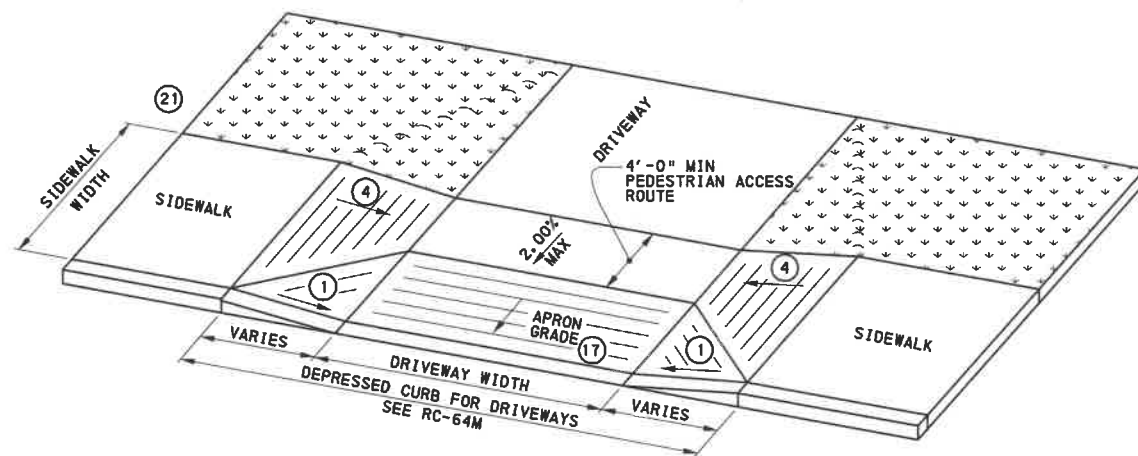
**TYPE 3A
DRIVEWAY APRON**



**TYPE 2A
DRIVEWAY APRON**



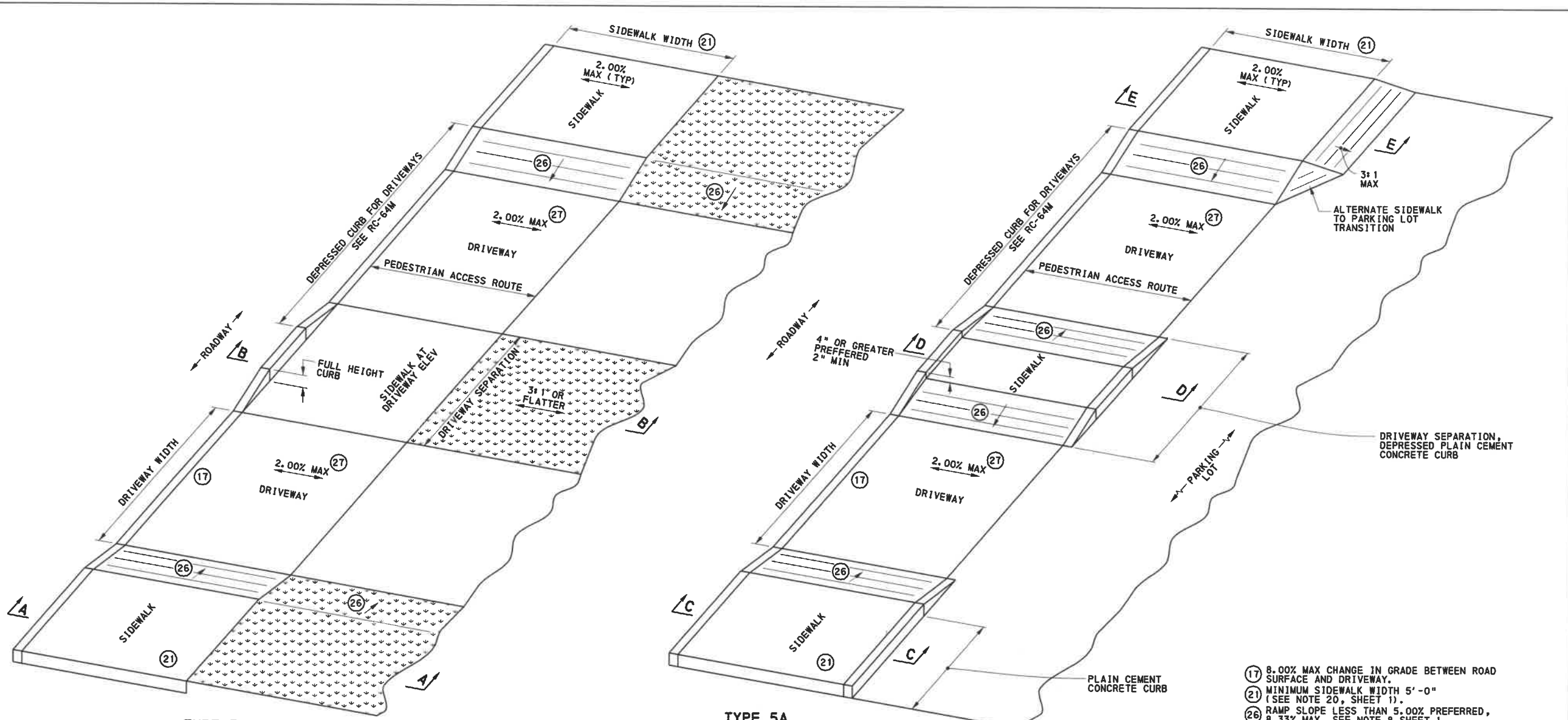
**TYPE 4
DRIVEWAY APRON**



**TYPE 3
DRIVEWAY APRON**

- ① SIDE FLARES 10.00% MAX SLOPE.
- ④ 8.33% MAX RAMP SLOPE, SEE NOTE 8 SHEET 1.
- ⑰ 8.00% MAX CHANGE IN GRADE BETWEEN ROAD SURFACE AND DRIVEWAY.
- ⑳ MINIMUM SIDEWALK WIDTH 5'-0" (SEE NOTE 20, SHEET 1)
- ㉕ 8.00% MAX CHANGE IN GRADE BETWEEN DRIVEWAY SURFACE AND SIDEWALK.

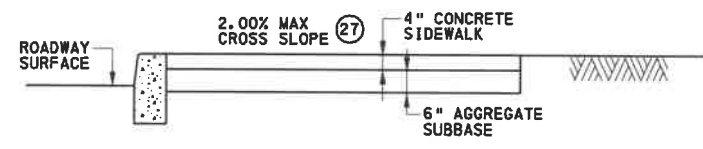
COMMONWEALTH OF PENNSYLVANIA
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BUREAU OF PROJECT DELIVERY
CURB RAMPS AND SIDEWALKS
DRIVEWAY APRONS



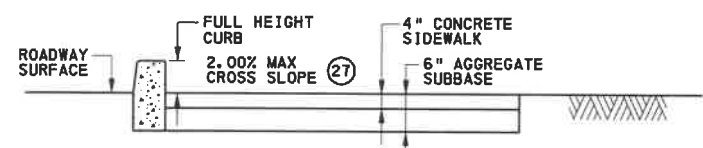
**TYPE 5
MULTIPLE DRIVEWAYS**

**TYPE 5A
MULTIPLE DRIVEWAYS**

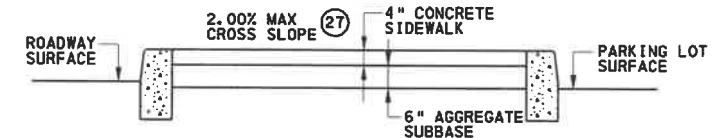
- (17) 8.00% MAX CHANGE IN GRADE BETWEEN ROAD SURFACE AND DRIVEWAY.
- (21) MINIMUM SIDEWALK WIDTH 5'-0" (SEE NOTE 20, SHEET 1).
- (26) RAMP SLOPE LESS THAN 5.00% PREFERRED, 8.33% MAX, SEE NOTE 8 SHEET 1.
- (27) ENSURE POSITIVE DRAINAGE.



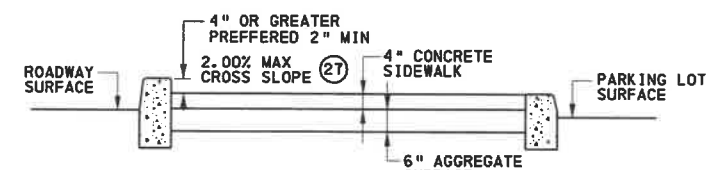
SECTION A-A



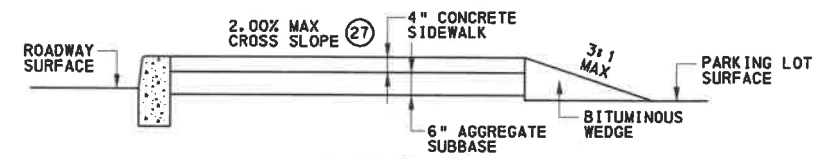
SECTION B-B



SECTION C-C



SECTION D-D



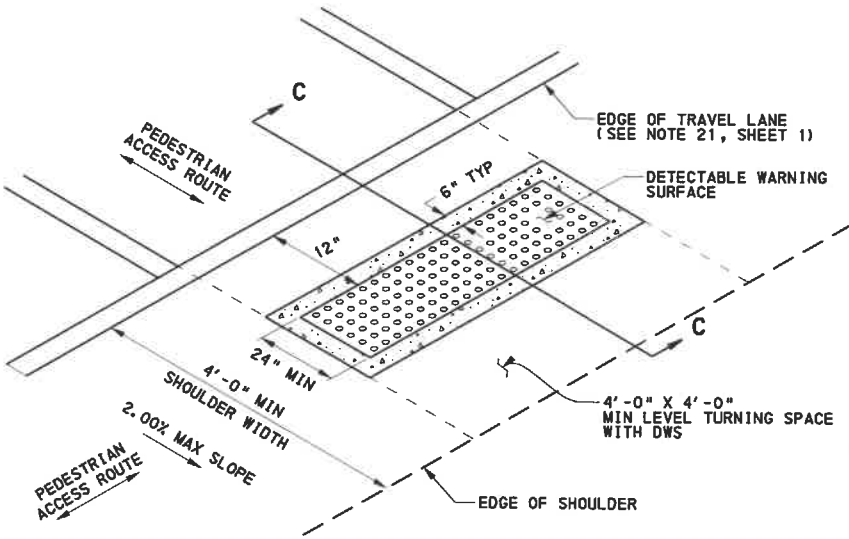
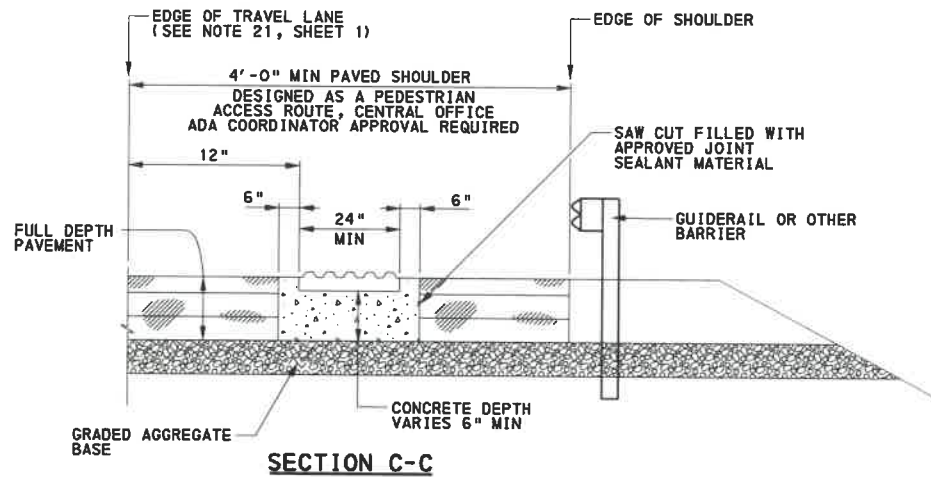
SECTION E-E

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
 BUREAU OF PROJECT DELIVERY

CURB RAMPS AND SIDEWALKS

DRIVEWAY APRONS

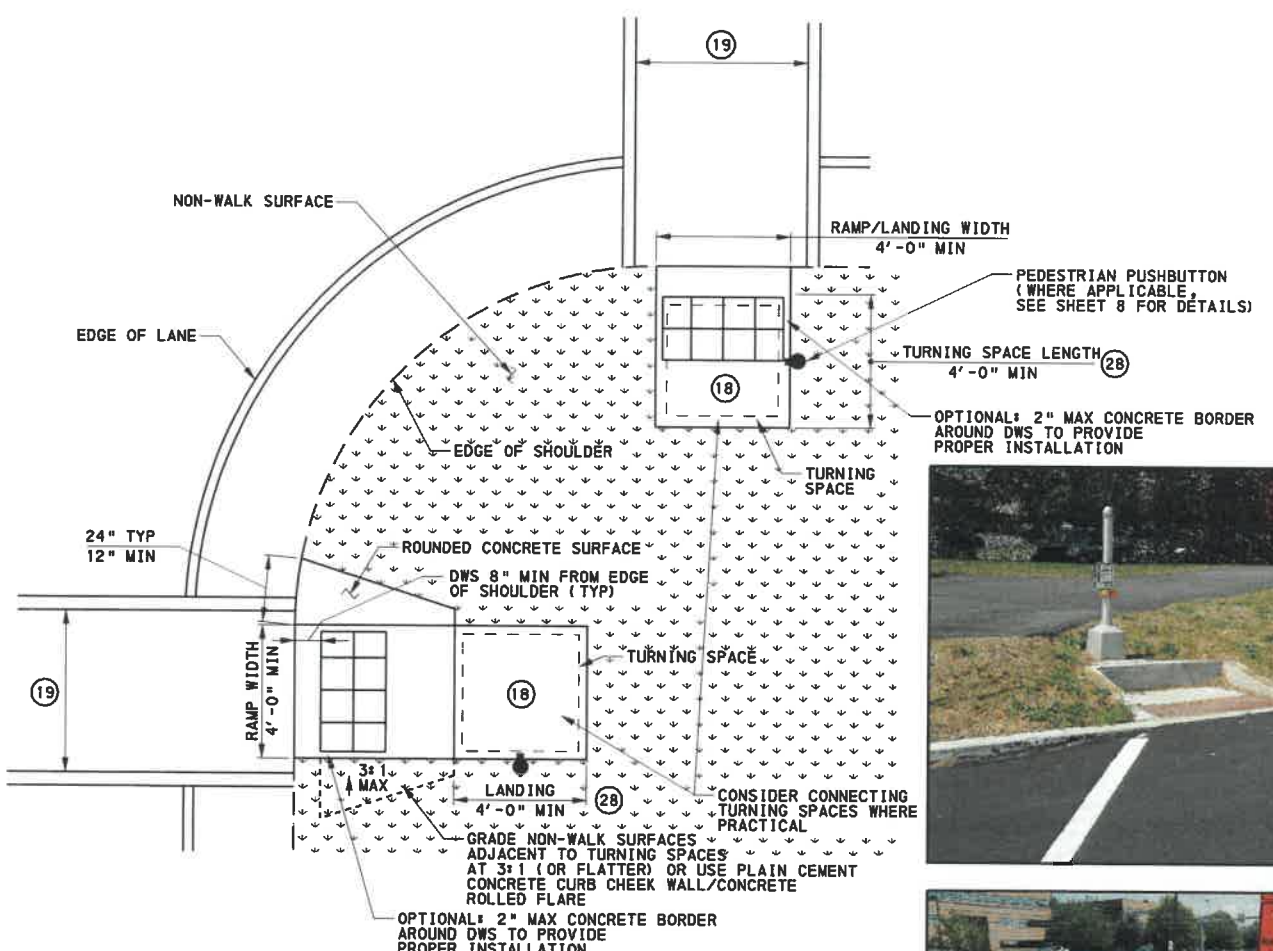
RECOMMENDED JUN. 10, 2013 <i>T. W. [Signature]</i> CHIEF, HWY. DELIVERY DIVISION	RECOMMENDED JUN. 10, 2013 <i>[Signature]</i> ACTING DIR. BUREAU OF PROJECT DELIVERY	SHT 13 OF 14 RC-67M
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DWS PLACEMENT ON PAVED SHOULDERS DESIGNED AS A PEDESTRIAN ACCESS ROUTE (PAR)

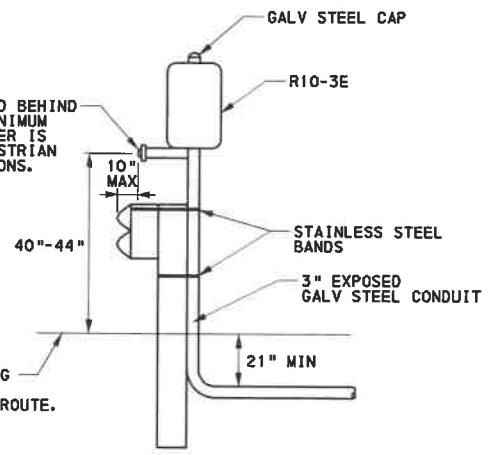
CENTRAL OFFICE ADA COORDINATOR APPROVAL REQUIRED

DO NOT INSTALL DETECTABLE WARNING SURFACE UNLESS THE SHOULDER IS DESIGNED AS A PEDESTRIAN ACCESS ROUTE. CENTRAL OFFICE ADA COORDINATOR APPROVAL REQUIRED.



PEDESTRIAN PUSHBUTTON ACCESS AREAS

- (18) CURB RAMP REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.
- (19) 6'-0" MIN MEASURED FROM INSIDE OF PAINTED EDGE TO INSIDE OF PAINTED EDGE.
- (28) TURNING SPACES SHOWN ARE TO PROVIDE ACCESS TO PEDESTRIAN PUSHBUTTON. TURNING SPACE MUST BE 5'-0" X 5'-0" WHEN CONFINED ON TWO OR MORE SIDES.



PEDESTRIAN PUSHBUTTON BEHIND GUIDE RAIL



COMMONWEALTH OF PENNSYLVANIA
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CURB RAMPS AND SIDEWALKS

DWS PLACEMENT ON PAVED SHOULDERS AND AT PEDESTRIAN PUSHBUTTONS