

Reserve Road Subdivision

Reserve Road

West Seneca, New York

AGENCIES

ENGINEERING DEPT./SANITARY SEWER
 NAME/TITLE: STEVEN TANNER, P.E., TOWN ENGINEER
 COMPANY/DEPT.: TOWN OF WEST SENECA ENGINEERING DEPT.
 ADDRESS: 1250 UNION ROAD
 WEST SENECA, NEW YORK 14224

TELEPHONE 716-558-3220

CODE ENFORCEMENT DEPT.

NAME/TITLE: JEFFREY SCHIEBER, CODE ENFORCEMENT OFFICER
 COMPANY/DEPT.: TOWN OF WEST SENECA CODE ENFORCEMENT DEPT.
 ADDRESS: 1250 UNION ROAD
 WEST SENECA, NEW YORK 14224

TELEPHONE 716-558-3237

ECDOH

NAME/TITLE:
 COMPANY/DEPT.: ERIE COUNTY DEPARTMENT OF HEALTH
 ADDRESS: 503 KENSINGTON AVE
 BUFFALO, NEW YORK 14214

TELEPHONE 716-961-6854

NYSDEC

NAME/TITLE:
 COMPANY/DEPT.: NEW YORK STATE DEPT. OF ENVIRONMENTAL
 CONSERVATION
 ADDRESS: 270 MICHIGAN AVENUE
 BUFFALO, NEW YORK 14203

TELEPHONE 716-851-7070

UTILITIES

NATURAL GAS
 NAME/TITLE: DAVID KOZLOWSKI
 COMPANY/DEPT.: NATIONAL FUEL GAS
 ADDRESS: ORCHARD PARK, NEW YORK 14127

TELEPHONE 716-667-5503

TELEPHONE COMPANY

NAME/TITLE: JIM MURPHY
 COMPANY/DEPT.: VERIZON
 ADDRESS: 65 FRANKLIN STREET RM 601
 BUFFALO, NEW YORK 14202

TELEPHONE 716-840-8698

ELECTRIC

NAME/TITLE: DAN LOSEL
 COMPANY/DEPT.: NEW YORK STATE ELECTRIC & GAS
 ADDRESS: HAMBURG, NEW YORK 14075

TELEPHONE 716-649-5556

WATER

NAME/TITLE: RUSS STOLL
 COMPANY/DEPT.: ERIE COUNTY WATER AUTHORITY
 ADDRESS: 3030 UNION ROAD
 CHEEKTOWAGA, NEW YORK 14227

TELEPHONE 716-684-1510

DIG SAFELY NEW YORK

TELEPHONE 811

DESIGN CONSULTANTS

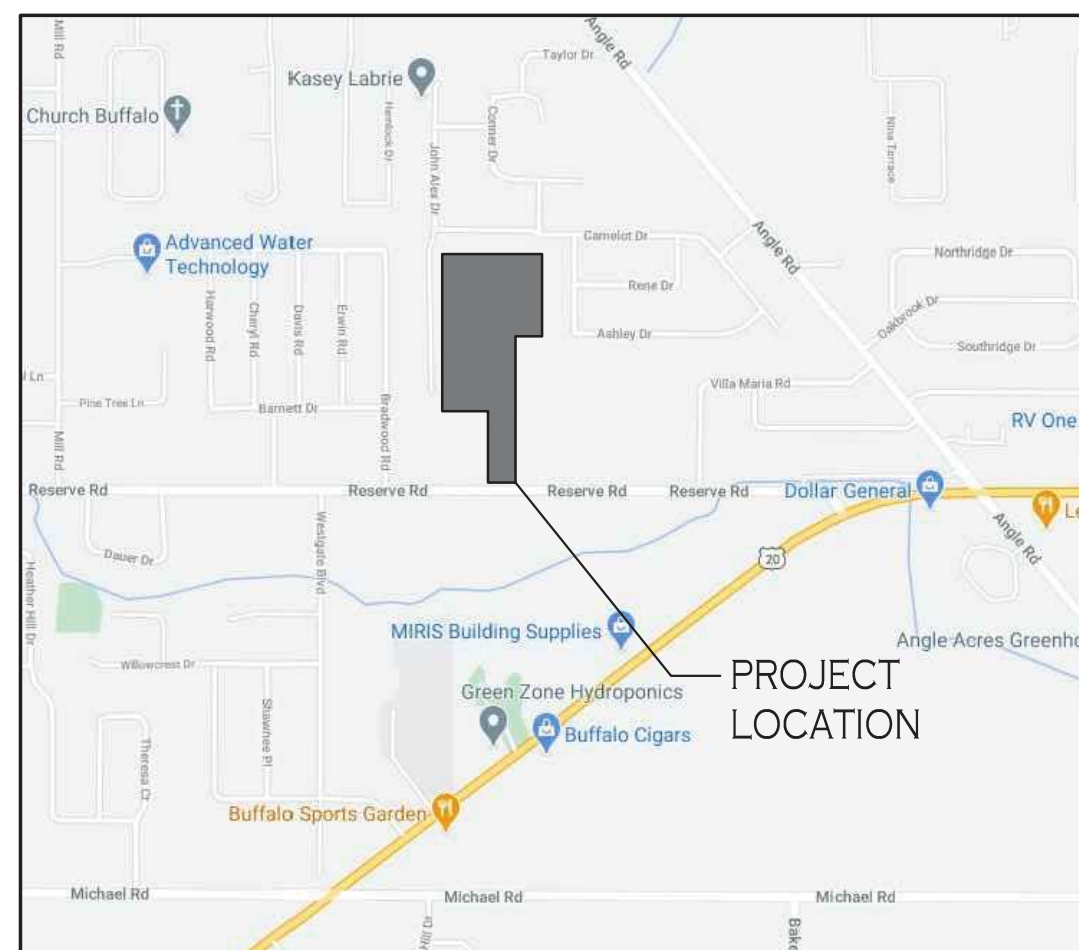
PROJECT SURVEYOR

NAME/TITLE:
 COMPANY/DEPT.: MILLARD, MACKAY & DELLES LAND SURVEYORS, LLP
 ADDRESS: 150 AERO DRIVE
 BUFFALO, NEW YORK 14225

TELEPHONE 716-631-5140

OWNER/DEVELOPER

NAME: NEXGEN DEVELOPMENT II, LLC
 ADDRESS: 500 BUFFALO ROAD
 EAST AURORA, NEW YORK 14052
 CONTACT: JIM MILKS & MARK KOLLER
 TELEPHONE (716) 818-4504 / (716) 250-8132



LOCATION MAP

NOT TO SCALE



Carmina • Wood • Morris ^{DPC}

487 Main Street Suite 600
 Buffalo, New York 14203
 P 716.842.3165
 F 716.842.0263

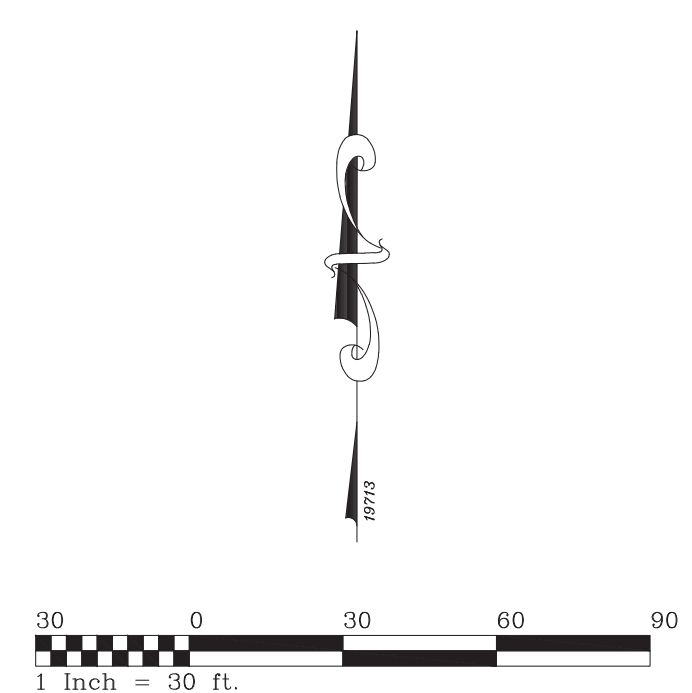
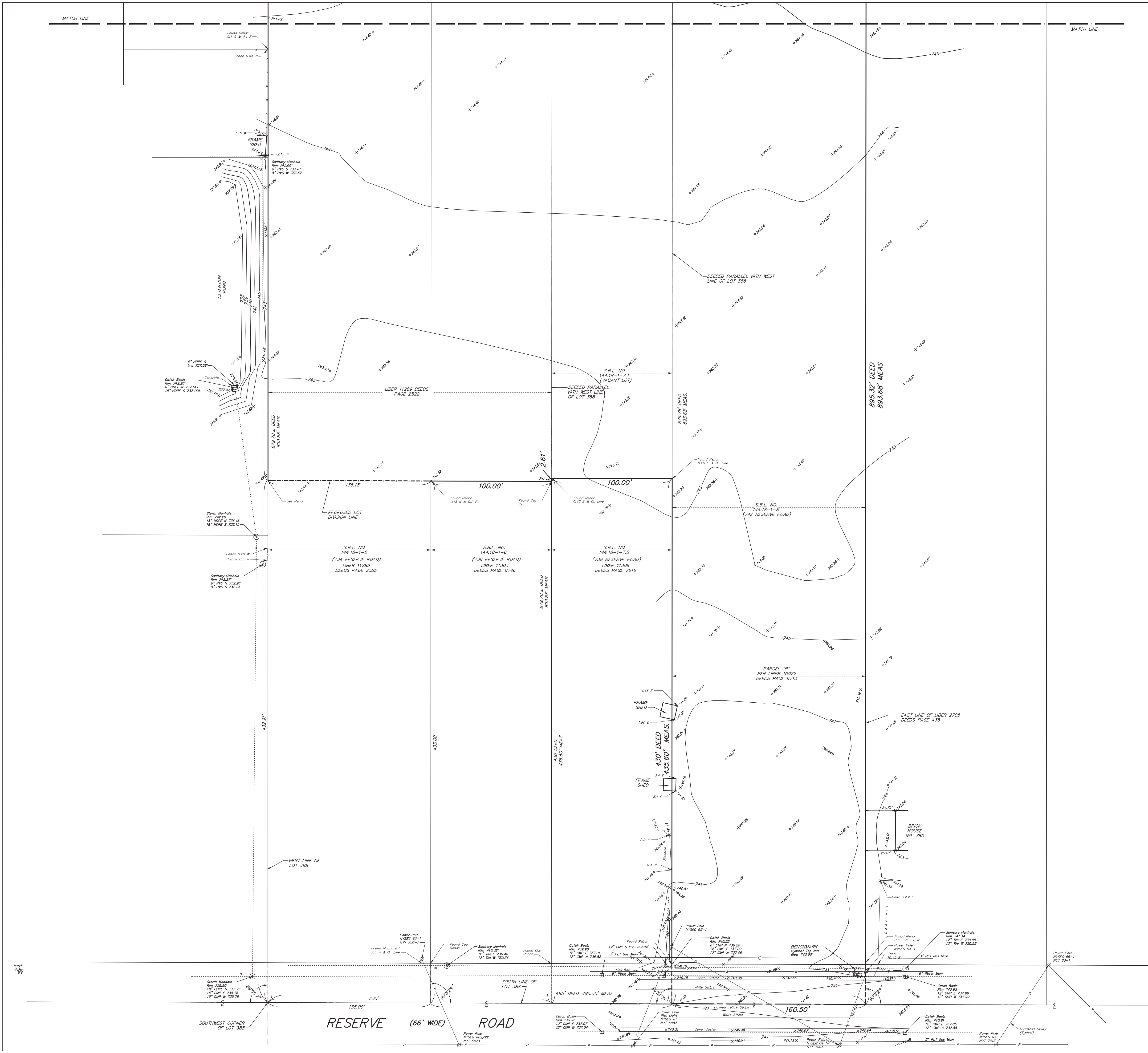
March 2021

DRAWING NO.	DRAWING TITLE
C-1	COVER SHEET
-	BOUNDARY & TOPOGRAPHIC SURVEY (Prepared by MMD)
-	BOUNDARY & TOPOGRAPHIC SURVEY (Prepared by MMD)
C-001	DEMOLITION & EROSION CONTROL PLAN
C-100	SITE PLAN - OVERALL
C-101	SITE PLAN - SOUTH
C-102	SITE PLAN - NORTH
C-200	GRADING PLAN - SOUTH
C-201	GRADING PLAN - NORTH
C-300	STORM DRAINAGE PLAN - SOUTH
C-301	STORM DRAINAGE PLAN - NORTH
C-302	PAVING & DRAINAGE PROFILES
C-303	PAVING & DRAINAGE PROFILES
C-304	STORM DRAINAGE DETAILS
C-400	UTILITY PLAN - SOUTH
C-401	UTILITY PLAN - NORTH
C-402	UTILITY PROFILES
C-403	UTILITY PROFILES
-	WEST SENECA EROSION AND SEDIMENT CONTROL DETAILS
-	WEST SENECA PAVING DETAILS
-	WEST SENECA STORM SEWER DETAILS
-	WEST SENECA SANITARY SEWER DETAILS
-	WEST SENECA WATER LINE DETAILS

Reserve Road Subdivision
 Reserve Road
 West Seneca, New York

SHEET NO.

C-1



LEGEND

⊗ UTILITY / SERVICE POLE	R.O.W. RIGHT OF WAY
⊕ WATER LINE VALVE	CONC. CONCRETE
⊕ FIRE HYDRANT	INV. INVERT
⊕ D.I. (DROP INLET - STORM)	M.H. MANHOLE
⊕ MANHOLE (STORM)	—G GAS LINE
⊕ MANHOLE (ELECTRIC)	—W WATER LINE
⊕ MANHOLE (TRAFFIC)	—T TELEPHONE LINE
⊕ MANHOLE (SANITARY)	—E ELECTRIC LINE
⊕ MANHOLE (TELEPHONE)	—U UTILITY LINES
⊕ GASLINE MARKER	—C CABLE LINES
⊕ GAS LINE VALVE	D. DEED
⊕ LIGHT STANDARD	M. MEASURED
— SIGN	L. LIBER
H.C. HANDICAP	P. PAGE

UTILITIES

The underground utilities shown have been located from field survey information & existing drawings. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from the information available. This surveyor has not physically located the underground utilities.

Note: Underground Utility information has been ordered from the respective utility companies. As the information is received, this map will be amended to reflect said information.

National Fuel Attn: Ed Kulpa (716) 857-7000	Spectrum Cable Attn: Chris Smith (800) 262-8600	Verizon Attn: Anne Baglio (716) 840-8748
Erie County Water Dept. Attn: Daniel Walkowiak (716) 684-1510	N.Y.S. Electric & Gas Attn: Sam Cappaglia (716) 651-5256	National Grid Attn: Eric Wright (716) 857-4031

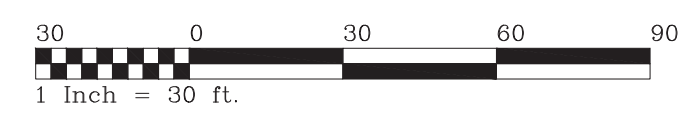
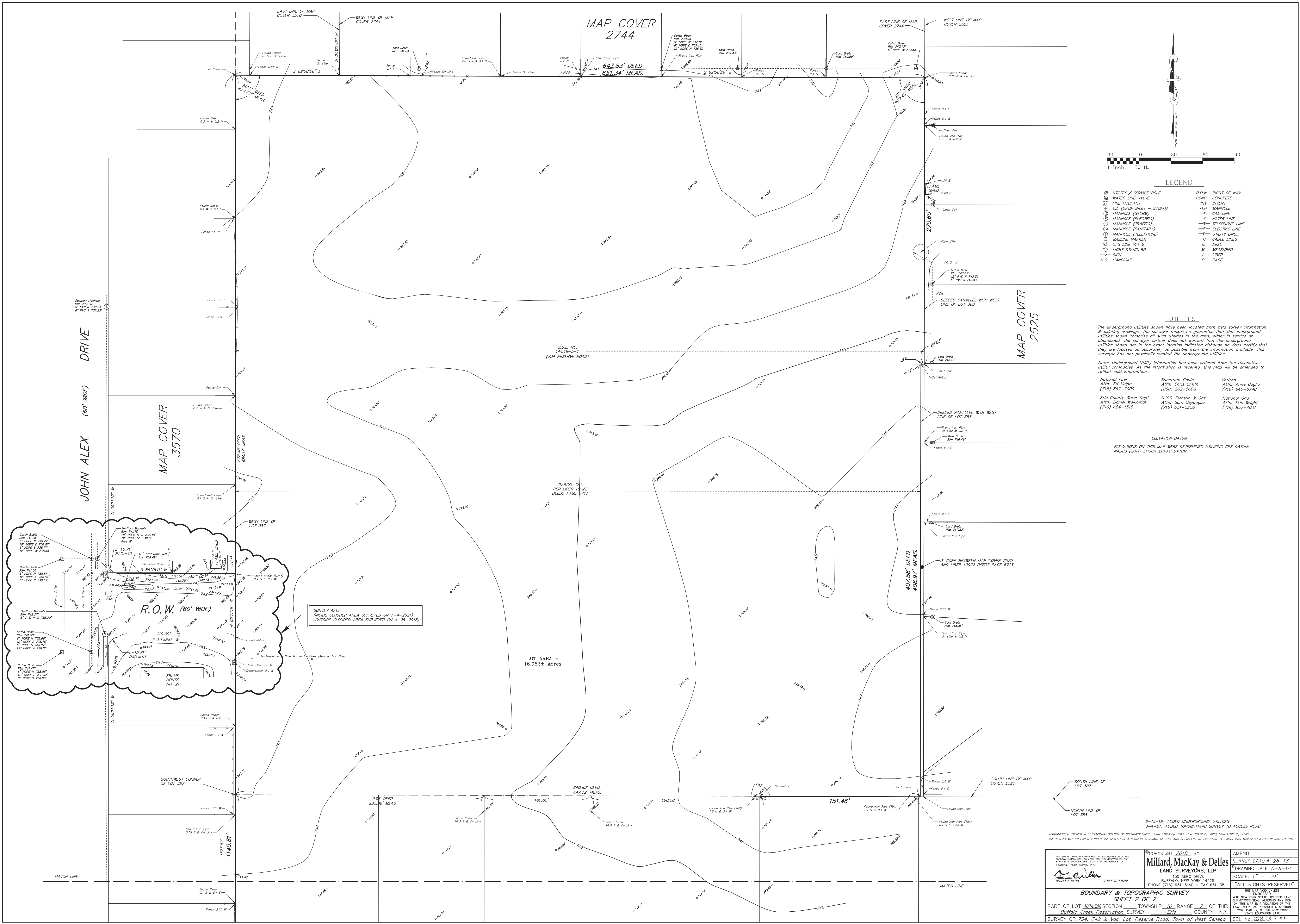
ELEVATION DATUM

ELEVATIONS ON THIS MAP WERE DETERMINED UTILIZING GPS DATUM:
NAD83 (2011) EPOCH 2010.0 DATUM

6-15-18: ADDED UNDERGROUND UTILITIES

INSTRUMENTS UTILIZED IN DETERMINING LOCATION OF BOUNDARY LINES: Lib 11289 Pg. 2522; Lib 10922 Pg. 6711; Lib 11115 Pg. 4025
THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT ABSTRACT OF TITLE AND IS SUBJECT TO ANY STATE OF FACTS THAT MAY BE REVEALED IN SAID ABSTRACT.

THIS SURVEY MAP WAS PREPARED IN ACCORDANCE WITH THE CURRENT STANDARDS FOR LAND SURVEYING AND BY THE PERMISSIVE OF THE STATE OF NEW YORK. MILLARD, MACKAY & DELLES LAND SURVEYORS, LLP 150 AERO DRIVE BUFFALO, NEW YORK 14225 PHONE (716) 631-5140 • FAX 631-3811	COPYRIGHT 2018 BY: Millard, Mackay & Delles LAND SURVEYORS, LLP	AMEND: SURVEY DATE: 4-26-18 DRAWING DATE: 5-6-18 SCALE: 1" = 30' "ALL RIGHTS RESERVED"
	BOUNDARY & TOPOGRAPHIC SURVEY SHEET 1 OF 2 PART OF LOT 387&388 SECTION 10 TOWNSHIP 10 RANGE 7 OF THE Buffalo Creek Reservation SURVEY - Erie COUNTY, N.Y. SURVEY OF: 734, 742 & Vac. Lot, Reserve Road, Town of West Seneca SBL NO. 14418-1-5, 14418-1-6, 14418-1-7, 14418-1-8	



LEGEND

⊗ UTILITY / SERVICE POLE	R.O.W. RIGHT OF WAY
⊗ WATER LINE VALVE	CONC. CONCRETE
⊗ FIRE HYDRANT	INV. INVERT
⊗ D.I. (DROP INLET - STORM)	MANHOLE
⊗ MANHOLE (STORM)	— GAS LINE
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UTILITIES

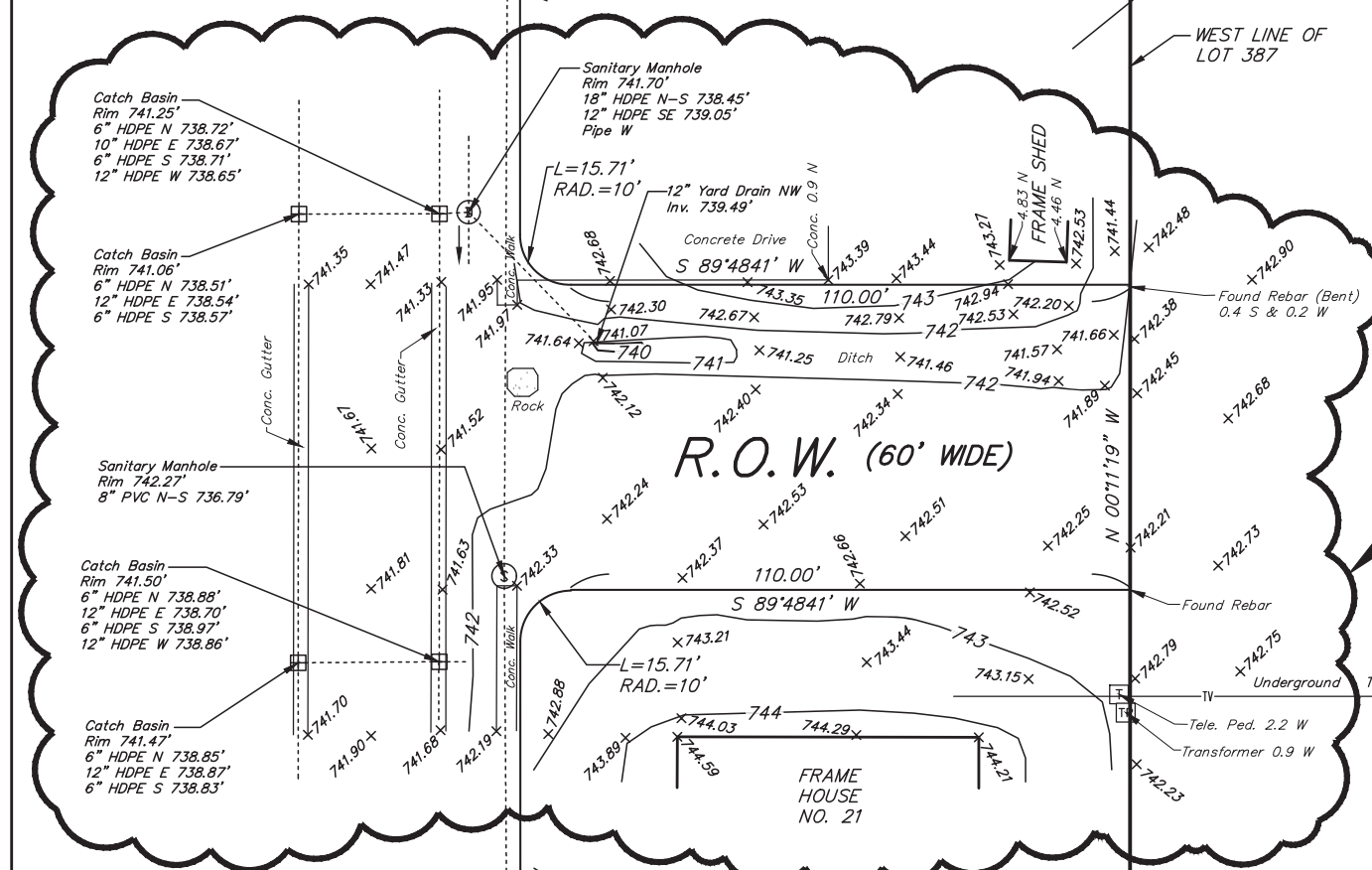
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ELEVATION DATUM

ELEVATIONS ON THIS MAP WERE DETERMINED UTILIZING GPS DATUM: NAD83 (2011) EPOCH 2010.0 DATUM



SURVEY AREA
(INSIDE CLOUDED AREA SURVEYED ON 3-4-2021)
(OUTSIDE CLOUDED AREA SURVEYED ON 4-26-2018)

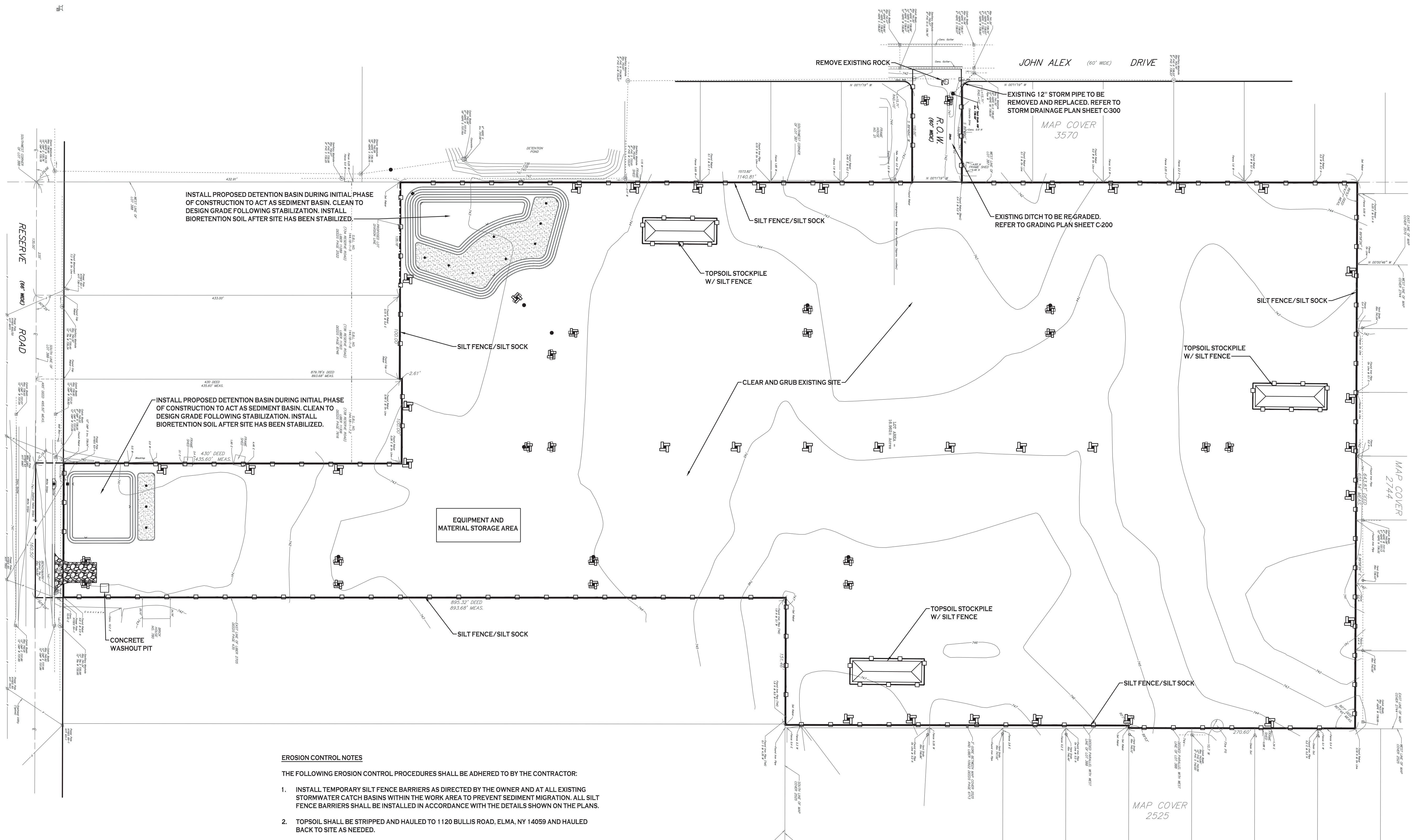
LOT AREA = 16.962± Acres

6-15-18: ADDED UNDERGROUND UTILITIES
3-4-21: ADDED TOPOGRAPHIC SURVEY TO ACCESS ROAD
THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT ABSTRACT OF TITLE AND IS SUBJECT TO ANY STATE OF FACTS THAT MAY BE REVEALED IN SAID ABSTRACT.

THIS SURVEY MAP WAS PREPARED IN ACCORDANCE WITH THE CURRENT STANDARD PRACTICES AND IS SUBJECT TO THE NEW YORK STATE LICENSED LAND SURVEYORS SEAL. ANY ITEM ON THIS MAP IS A VIOLATION OF THE LAW EXCEPT AS PROVIDED IN SECTION 1209, PART 2 OF THE NEW YORK STATE EDUCATION LAW. SBL No. 144.18-2-1 21 & 8	COPYRIGHT 2021 BY: Millard, Mackay & Delles LAND SURVEYORS, LLP 150 AERO DRIVE BUFFALO, NEW YORK 14225 PHONE (716) 631-5140 • FAX 631-3811	AMEND: SURVEY DATE: 4-26-18 DRAWING DATE: 5-6-18 SCALE: 1" = 30' "ALL RIGHTS RESERVED"
	BOUNDARY & TOPOGRAPHIC SURVEY SHEET 2 OF 2 PART OF LOT 387, SECTION 10, TOWNSHIP 10, RANGE 7 OF THE Buffalo Creek Reservation SURVEY - Erie COUNTY, N.Y. SURVEY OF: 734, 742 & Vac. Lot, Reserve Road, Town of West Seneca	

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EROSION CONTROL NOTES

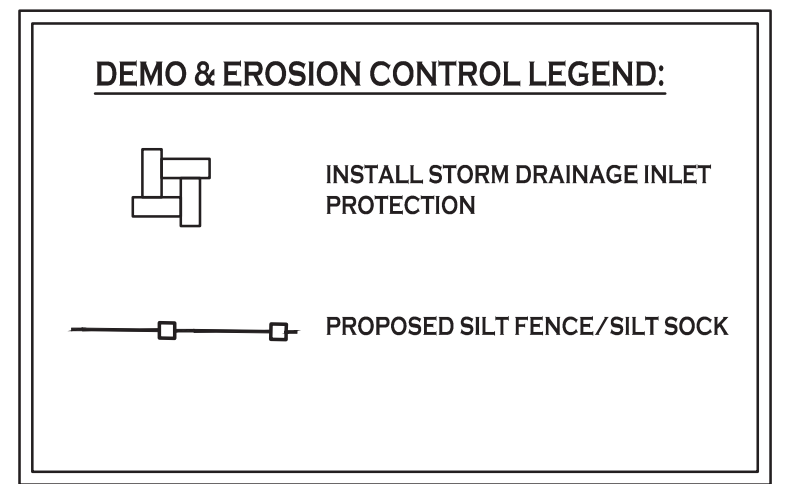
THE FOLLOWING EROSION CONTROL PROCEDURES SHALL BE ADHERED TO BY THE CONTRACTOR:

1. INSTALL TEMPORARY SILT FENCE BARRIERS AS DIRECTED BY THE OWNER AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT FENCE BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
2. TOPSOIL SHALL BE STRIPPED AND HAULED TO 1120 BULLIS ROAD, ELMA, NY 14059 AND HAULED BACK TO SITE AS NEEDED.
3. ALL SILT FENCE BARRIERS SHALL BE REPLACED WHEREVER THEY BECOME CLOGGED OR INOPERABLE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.
5. THE CONTRACTOR MUST CONTROL DUST DURING CONSTRUCTION. DURING EARTHWORK OPERATIONS, WATER-SPREADING EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR, AND SPREAD WATER AS NECESSARY AND AS DIRECTED BY THE OWNER IN ORDER TO CONTROL DUST.
6. DIRT OR DEBRIS LEFT ON LOCAL PUBLIC ROADS AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE REMOVED AND ROAD SURFACES CLEANED BY THE CONTRACTOR ON A DAILY BASIS.
7. ALL DISTURBED AREAS (EXCEPT AREAS TO BE PAVED OR BUILT UPON) SHALL BE TOPSOILED TO A MINIMUM 6" DEPTH AND SEEDED IMMEDIATELY AFTER FINE GRADING TAKES PLACE AND AS SOON AS PHYSICALLY POSSIBLE.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF DOWNSTREAM STORM SEWERS, DITCHES, AND CULVERTS. SILT BUILDUP FOUND TO BE A RESULT OF THIS SITE CONSTRUCTION WORK SHALL BE REMOVED FROM DOWNSTREAM CULVERTS BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE TOWN/CITY.
9. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MATERIALS SHALL BE IN PLACE PRIOR TO BEGINNING EARTHWORK OPERATIONS AND SHALL BE MAINTAINED UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION, AS DIRECTED BY THE ENGINEER.
10. INSTALL TEMPORARY SILT FENCE AROUND THE BASE OF STOCKPILES.
11. THE PROFESSIONAL CERTIFYING COMPLIANCE TO NYSDEC PHASE II STORMWATER REGULATION REQUIREMENTS MUST INSPECT AT A MINIMUM WEEKLY AND SHALL PROVIDE THESE INSPECTION REPORT WITH A WRITTEN CERTIFICATION OF CONSTRUCTION COMPLIANCE TO THE TOWN OF WEST SENECA WEEKLY.
12. THE ENGINEER OF RECORD FOR THIS PROJECT CERTIFIES THAT THESE DESIGN PLANS MEET THE REQUIREMENTS AND ARE IN COMPLIANCE WITH THE NEW YORK STORMWATER MANAGEMENT DESIGN MANUAL AND NYSDEC PHASE II STORMWATER REGULATION REQUIREMENTS. DUE TO SOIL DISTURBANCE BEING GREATER THAN ONE ACRE, A NYSDEC SPDES PERMIT MUST BE OBTAINED BEFORE ANY ON-SITE DISTURBANCE IS MADE.

DEMO & EROSION CONTROL PLAN
 SCALE: 1"=60'

NOTES:

1. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THOSE ITEMS TO REMAIN, SUCH AS TREES, PROPERTY CORNER PINS, UTILITY POLES, VALVES, HYDRANTS, CURBS, MANHOLES AND CATCH BASINS.
2. TEMPORARY SILT FENCE AND STRAW BALES TO BE INSTALLED AS DIRECTED BY THE OWNERS FIELD REPRESENTATIVE. MAINTAIN UNTIL VEGETATION IS ESTABLISHED AND PAVEMENT IS INSTALLED.
3. FOR THOSE STRUCTURES TO BE DEMOLISHED, ALL EXISTING UTILITY SERVICES SHALL BE ABANDONED IN ACCORDANCE WITH LOCAL REGULATIONS, ALL METERS SHALL BE RETURNED TO PROPER OWNERS.
4. THE CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCES WHERE ACCESSING THE SITE FROM PAVED ROADWAYS.
5. THE CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH NYS M.U.T.C.D. STANDARDS PRIOR TO STARTING WORK.



NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD MORRIS, P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.



REVISIONS:	Description
No.	Date

PROJECT NAME:
 New Construction
Proposed Subdivision
 Reserve Rd
 West Seneca, New York

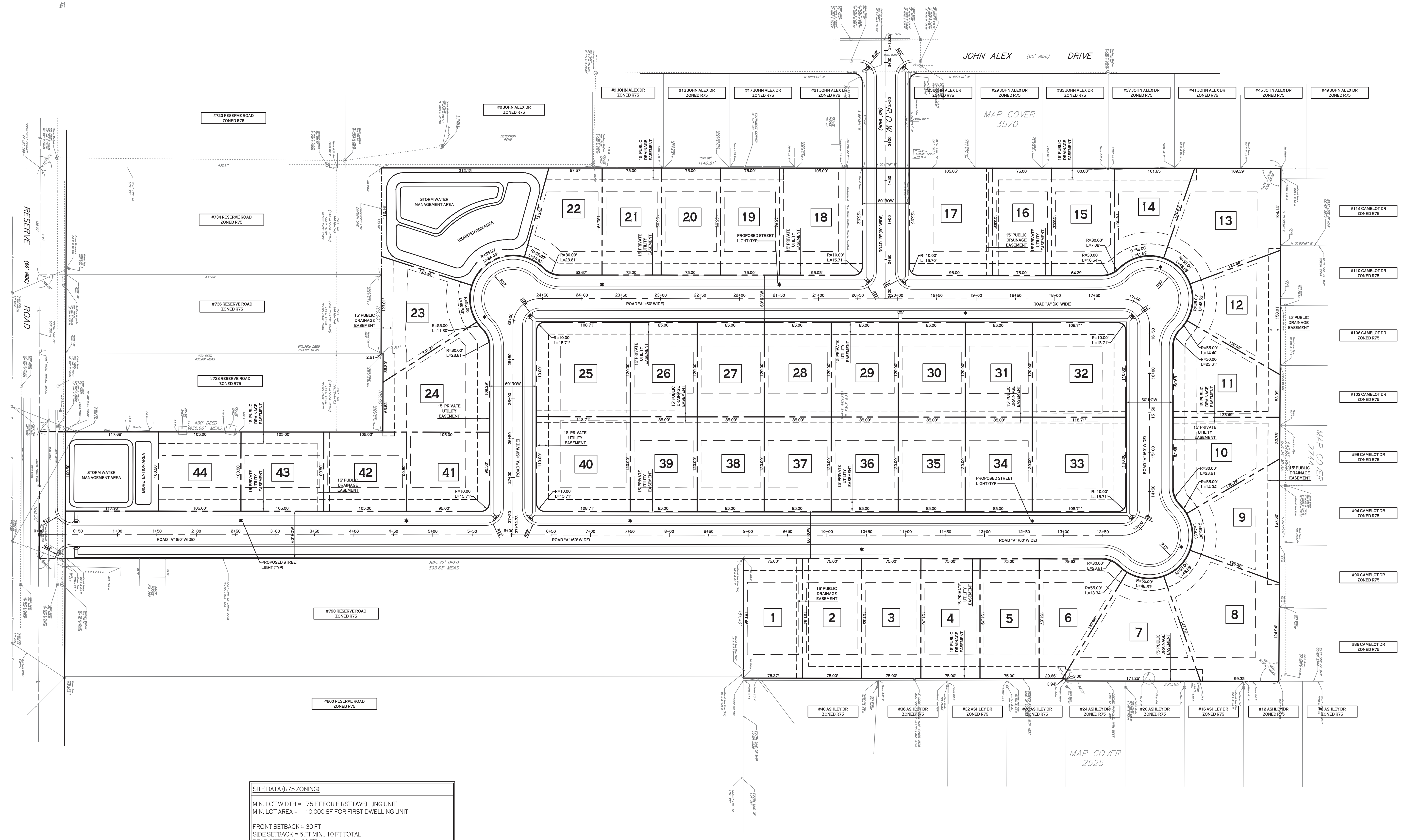
Issued for Construction: xx.xx.xx
 Municipality Submission: xx.xx.xx
 Drawn by: A. Pandolfi
 Scale: As Noted

DRAWING NAME:
 Demo & Erosion Control Plan

DRAWING NO.
C-001
 Project no.: 18.077

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SITE DATA (R75 ZONING)	
MIN. LOT WIDTH =	75 FT FOR FIRST DWELLING UNIT
MIN. LOT AREA =	10,000 SF FOR FIRST DWELLING UNIT
FRONT SETBACK =	30 FT
SIDE SETBACK =	5 FT MIN., 10 FT TOTAL
REAR SETBACK =	30 FT
MAXIMUM LOT COVERAGE =	12%
MAXIMUM BUILDING HEIGHT =	30 FT
MINIMUM FLOOR AREA =	1,100 SF (1-FAMILY)
NOTE:	LOT WIDTH MEASURED AT FRONT SETBACK LINE

SITE PLAN - OVERALL
SCALE: 1"=60'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD MORRIS, P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.



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Proposed Subdivision
Reserve Rd
West Seneca, New York

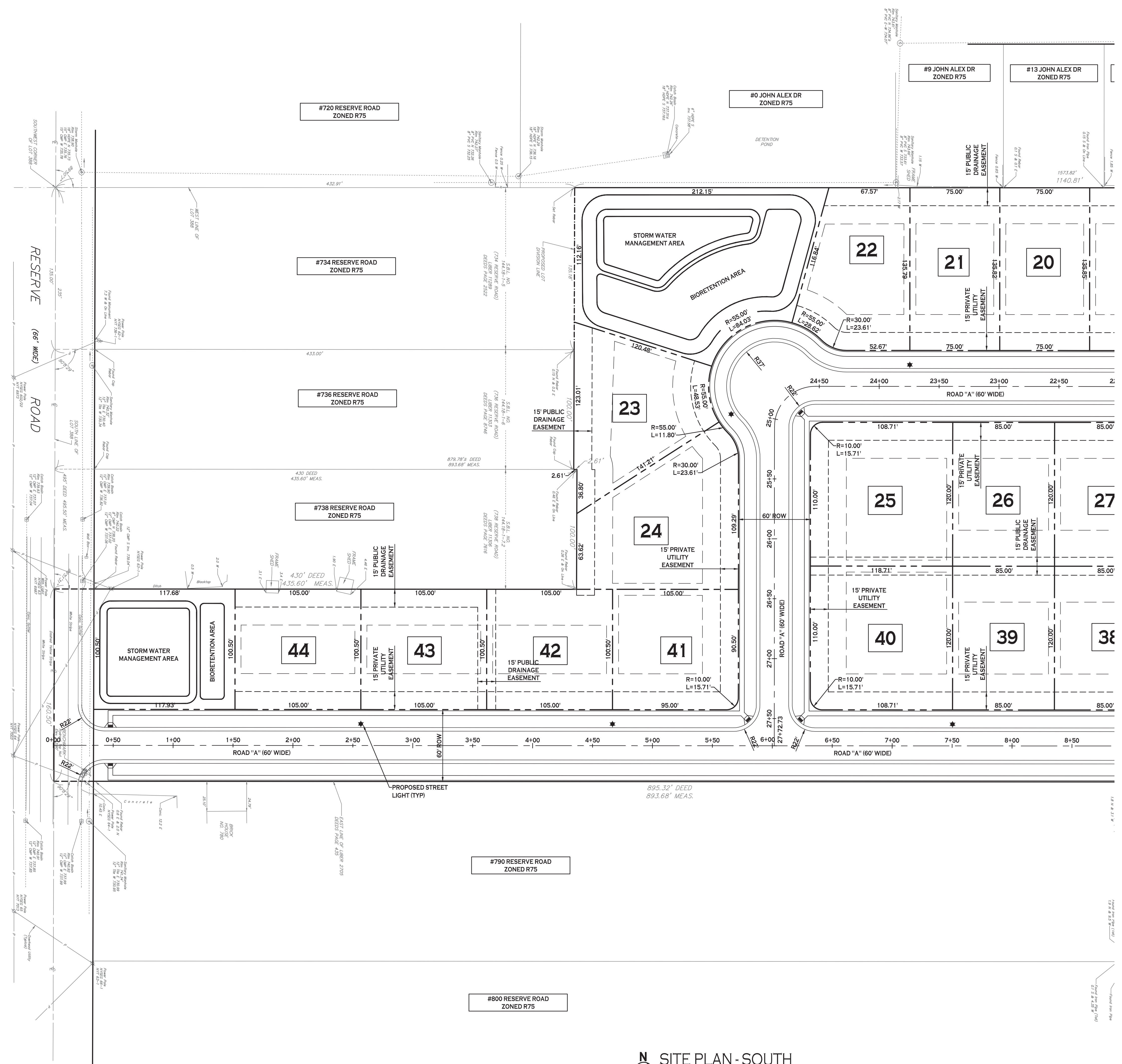
Issued for Construction: xx.xx.xx
Municipality Submission: xx.xx.xx
Drawn by: C. Wood
Scale: As Noted

DRAWING NAME:
Site Plan - Overall

DRAWING NO.
C-100
Project no.: 18.077

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NOTE: LOT WIDTH MEASURED AT FRONT SETBACK LINE	

SITE PLAN - SOUTH
SCALE: 1"=40'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD MORRIS, P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.



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REVISIONS:	No.	Description	Date

PROJECT NAME:
**New Construction
Proposed Subdivision
Reserve Rd
West Seneca, New York**

Issued for Construction: xx.xx.xx
Municipality Submission: xx.xx.xx
Drawn by: C. Wood
Scale: As Noted

DRAWING NAME:
Site Plan - South

DRAWING NO.
C-101
Project no.: 18.077

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MAXIMUM LOT COVERAGE =	12%
MAXIMUM BUILDING HEIGHT =	30 FT
MINIMUM FLOOR AREA =	1,100 SF (1-FAMILY)
NOTE:	LOT WIDTH MEASURED AT FRONT SETBACK LINE



N SITE PLAN - NORTH
SCALE: 1"=40'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD MORRIS, P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

40 0 40 80FT.



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REVISIONS:	No.	Description	Date

PROJECT NAME:
New Construction
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Reserve Rd
West Seneca, New York

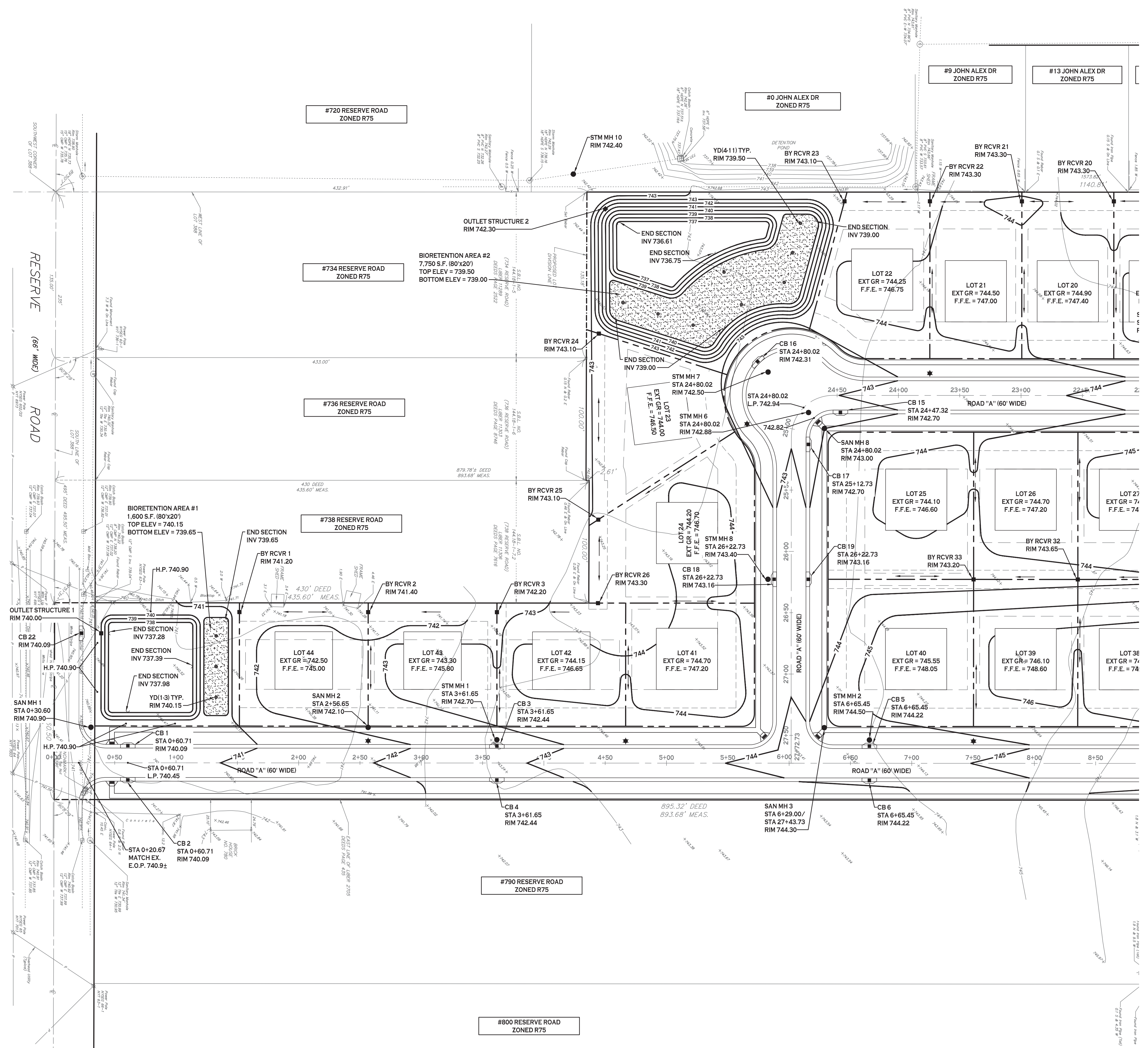
Issued for Construction: xx.xx.xx
Municipality Submission: xx.xx.xx
Drawn by: C. Wood
Scale: As Noted

DRAWING NAME:
Site Plan - North

DRAWING NO.
C-102
Project no.: 18.077

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GRADING PLAN - SOUTH
SCALE: 1"=40'

- GRADING NOTES:**
1. IN GENERAL, 1ST FFE FOR THE PROPOSED HOUSES SHALL BE 2.5' ABOVE HIGHEST EXTERIOR GRADE ELEVATION
 2. IN GENERAL, TOP OF WALL ELEVATION SHALL BE 1.5' ABOVE HIGHEST EXTERIOR GRADE ELEVATION
 3. SANITARY SEWER INVERT AT THE PROPOSED HOUSE SHALL BE 1.5' ABOVE THE BASEMENT FLOOR ELEVATION, BASEMENT FLOOR ELEVATION IS 9' BELOW THE 1ST FFE.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD MORRIS, P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.



REVISIONS:	No.	Description	Date

PROJECT NAME:
**New Construction
Proposed Subdivision
Reserve Rd
West Seneca, New York**

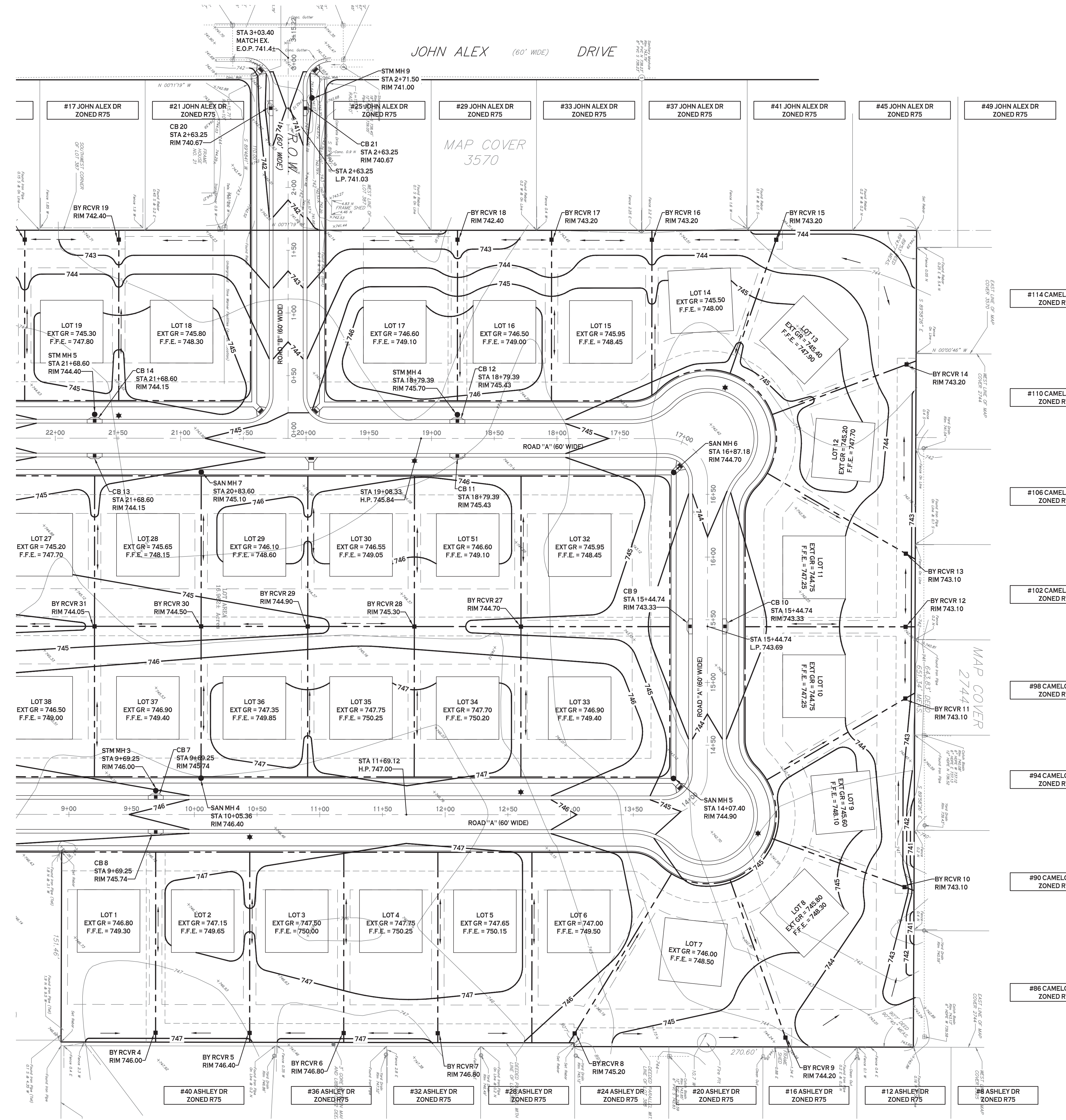
Issued for Construction: xx.xx.xx
Municipality Submission: xx.xx.xx
Drawn by: A. Pandolfi
Scale: As Noted

DRAWING NAME:
Grading Plan - South

DRAWING NO.
C-200
Project no.: 18.077

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N GRADING PLAN - NORTH
SCALE: 1"=40'



REVISIONS:	No.	Description	Date

PROJECT NAME:
**New Construction
Proposed Subdivision
Reserve Rd
West Seneca, New York**

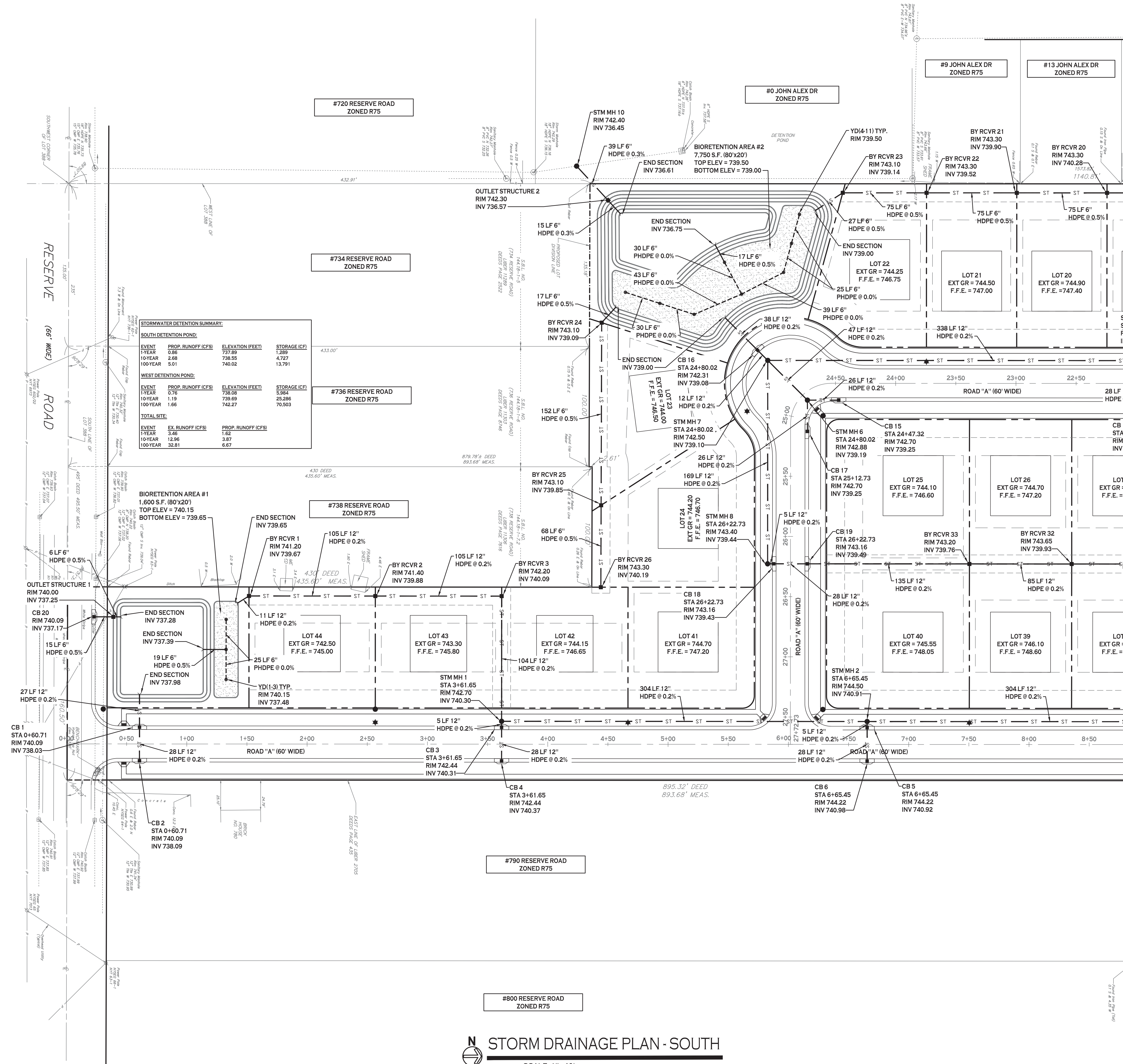
Issued for Construction: xx.xx.xx
Municipality Submission: xx.xx.xx
Drawn by: A. Pandolfi
Scale: As Noted

DRAWING NAME:
Grading Plan - North

DRAWING NO.
C-201
Project no.: 18.077

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STORM DRAINAGE PLAN - SOUTH
SCALE: 1"=40'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD MORRIS, P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.



REVISIONS:

No.	Description	Date

PROJECT NAME:
New Construction Proposed Subdivision
Reserve Rd
West Seneca, New York

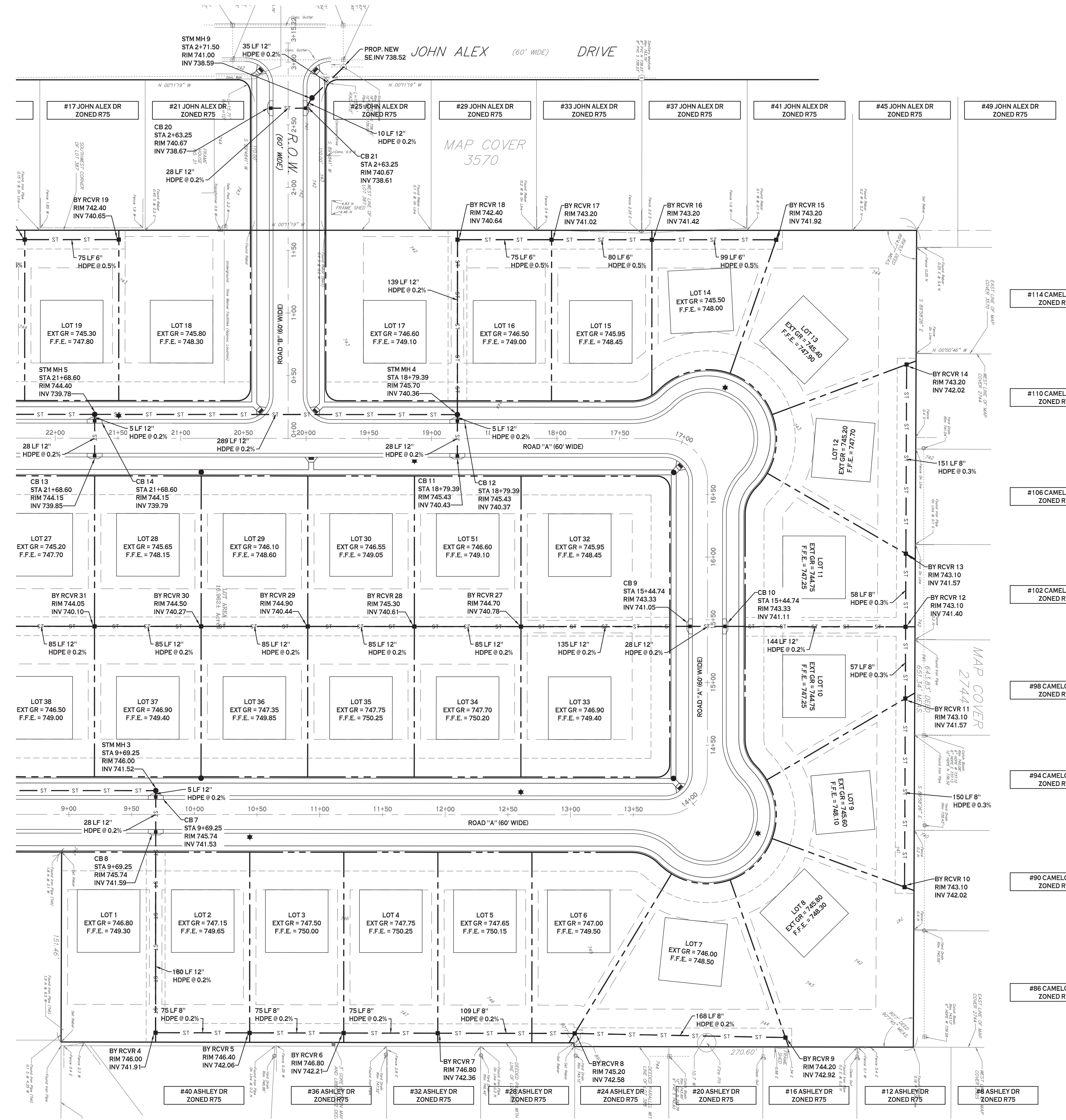
Issued for Construction: xx.xx.xx
Municipality Submission: xx.xx.xx
Drawn by: A. Pandolle
Scale: As Noted

DRAWING NAME:
Storm Drainage Plan - South

DRAWING NO.
C-300
Project no.: 18.077

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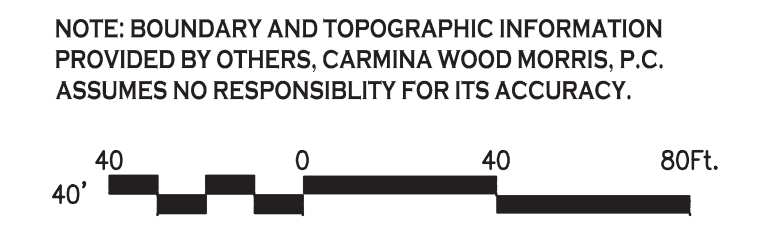


PROPOSED UTILITY LEGEND

PROPOSED STORM SEWER	— ST —
PROPOSED SANITARY SEWER	— SA —
PROPOSED WATERLINE	— W —
PROPOSED CATCH BASIN	■ CB
PROPOSED YARD DRAIN	● YD
PROPOSED MANHOLE	● MH
PROPOSED HYDRANT ASSEMBLY	● H
PROPOSED GATE VALVE	● GV

NOTE: FOR PROPOSED VALVE BOXES, CLEANOUTS, ETC., INSTALL A 3,000 PSI CONCRETE COLLAR AROUND THE ITEM AT GRADE. THE COLLAR SHALL BE A MINIMUM OF 6" WIDER, ON ALL SIDES, THAN THE BOX, CLEANOUT, ETC. THE COLLAR SHALL BE A MINIMUM OF 6" THICK.

N STORM DRAINAGE PLAN - NORTH
SCALE: 1"=40'



REVISIONS:

No.	Description	Date

PROJECT NAME:
New Construction
Proposed Subdivision
Reserve Rd
West Seneca, New York

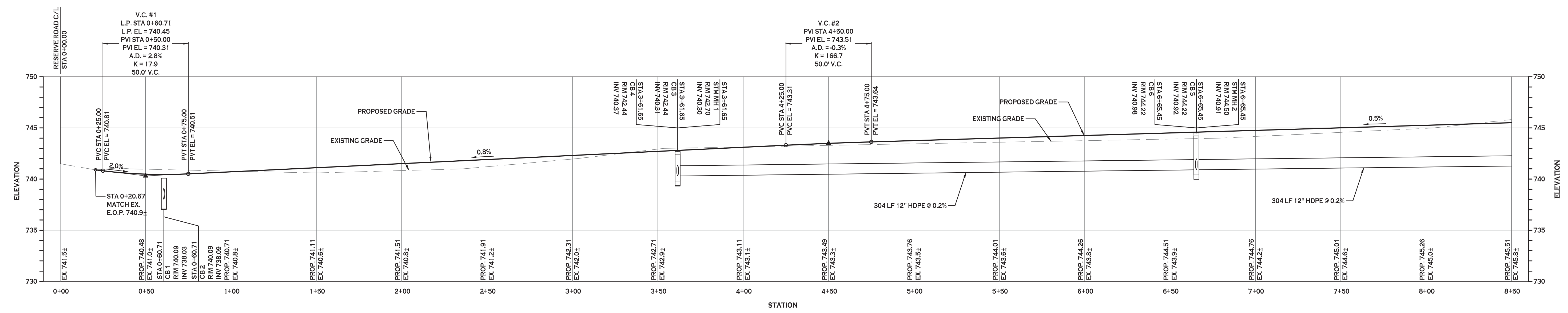
Issued for Construction: xx.xx.xx
Municipality Submission: xx.xx.xx
Drawn by: A. Pandolfi
Scale: As Noted

DRAWING NAME:
Storm Drainage Plan - North

DRAWING NO.
C-301
Project no.: 18.077

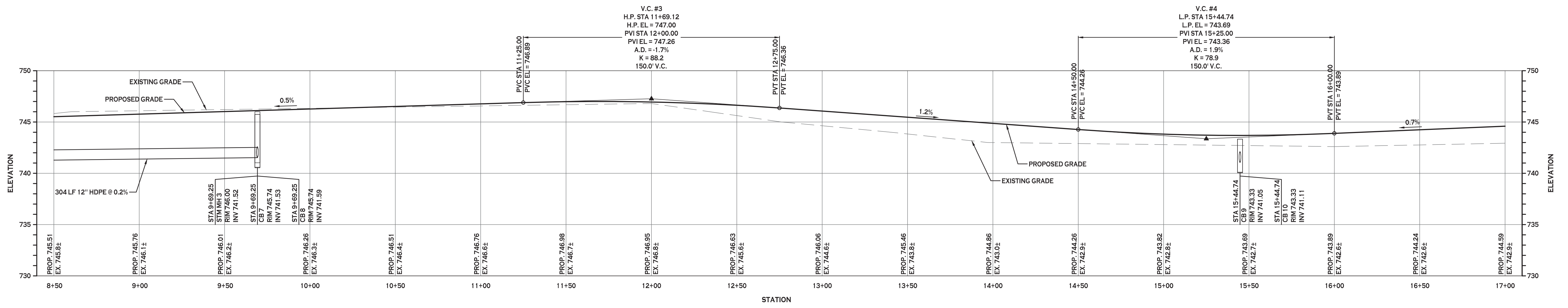
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PAVING & DRAINAGE PROFILE ROAD "A" STA 0+00 - 8+50

HORZ. SCALE: 1"=30'
VERT. SCALE: 1"=5'



PAVING & DRAINAGE PROFILE ROAD "A" STA 8+50 - 17+00

HORZ. SCALE: 1"=30'
VERT. SCALE: 1"=5'



REVISIONS:	No.	Description	Date

PROJECT NAME:
New Construction
Proposed Subdivision
Reserve Rd
West Seneca, New York

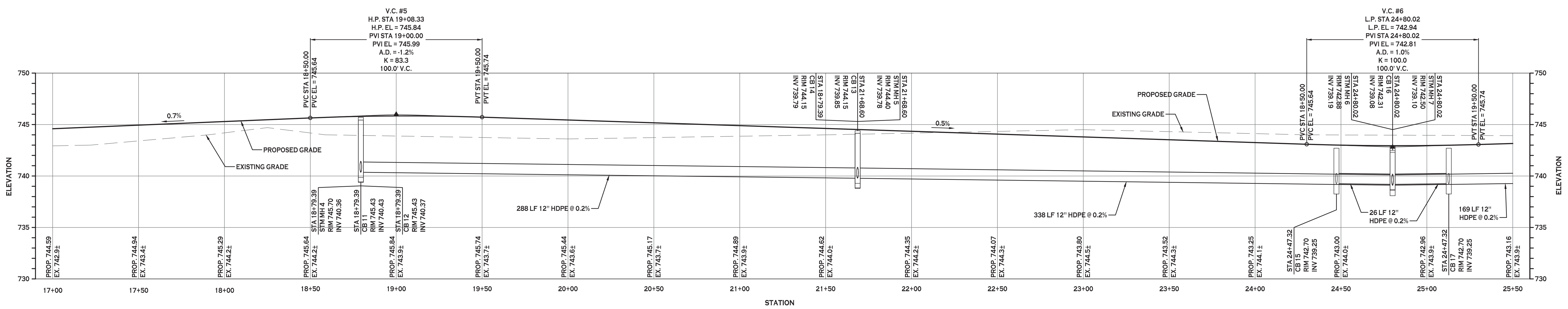
Issued for Construction: xx.xx.xx
Municipality Submission: xx.xx.xx
Drawn by: A. Pandolfie
Scale: As Noted

DRAWING NAME:
Paving & Drainage Profiles

DRAWING NO.
C-302
Project no.: 18.077

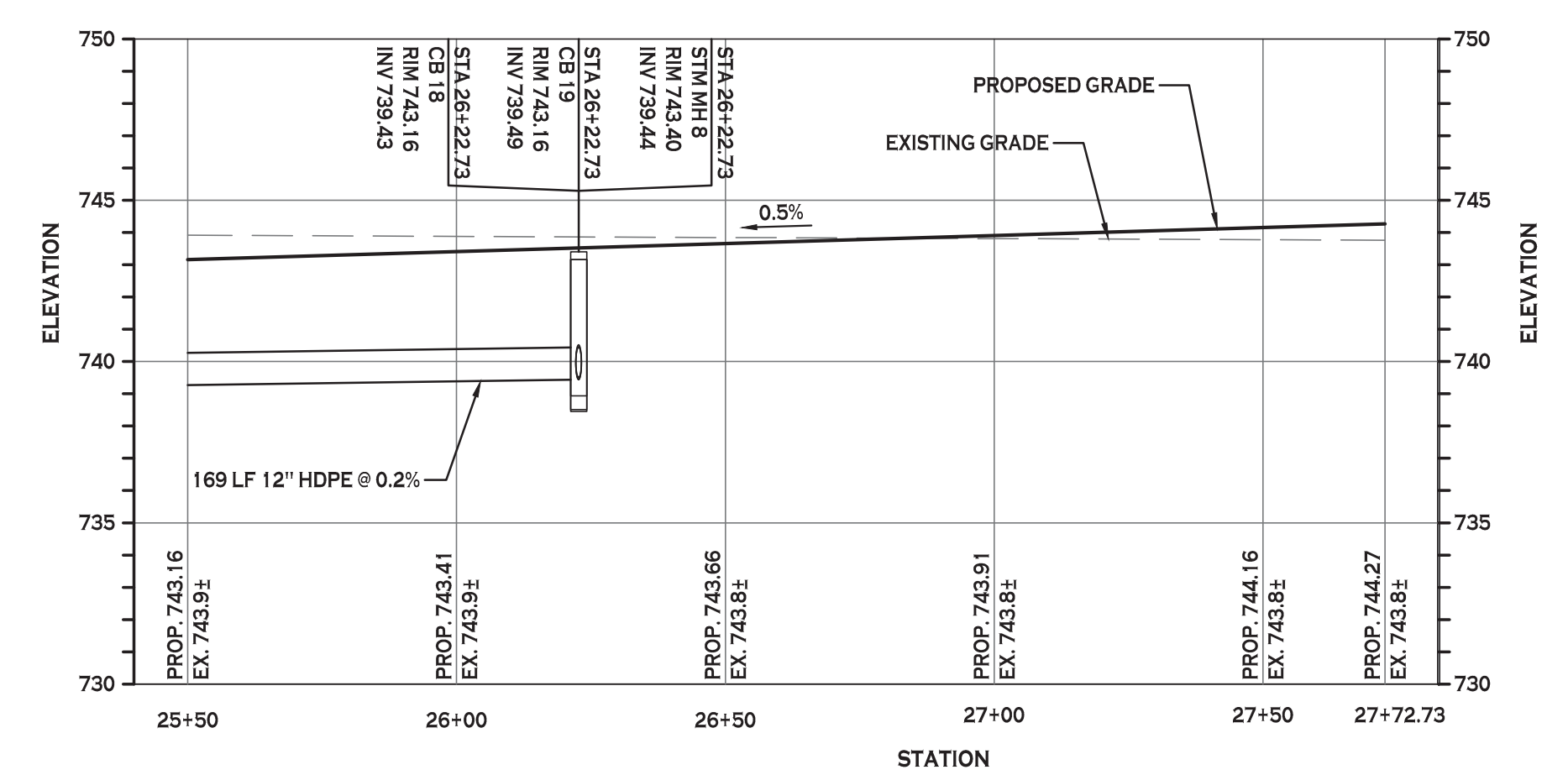
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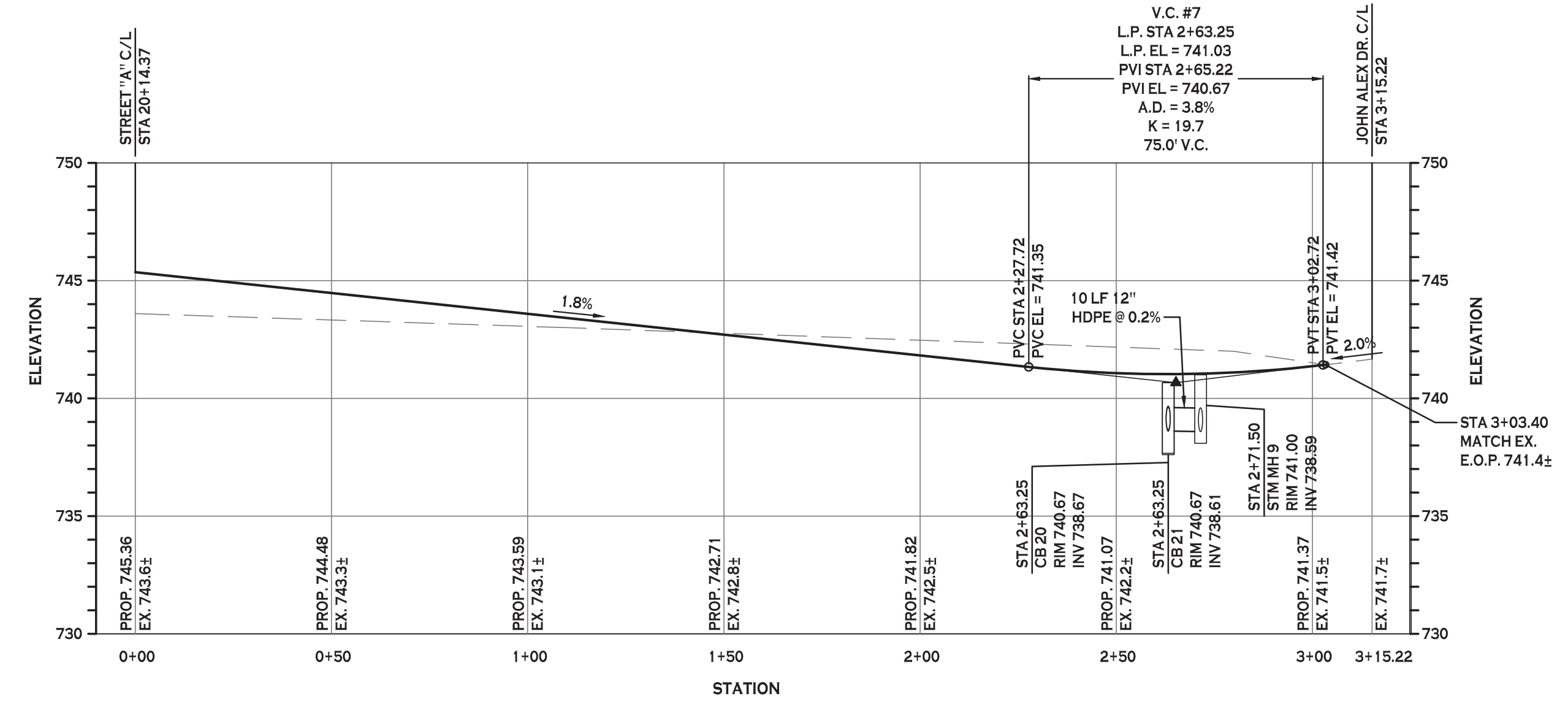
PAVING & DRAINAGE PROFILE ROAD "A" STA 17+00 - 25+50

HORZ. SCALE: 1"=30'
VERT. SCALE: 1"=5'



PAVING & DRAINAGE PROFILE ROAD "A" STA 25+50 - 27+72.73

HORZ. SCALE: 1"=30'
VERT. SCALE: 1"=5'



PAVING & DRAINAGE PROFILE ROAD "B" STA 0+00 - 3+15.22

HORZ. SCALE: 1"=30'
VERT. SCALE: 1"=5'



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REVISIONS:	No.	Description	Date

PROJECT NAME:

New Construction
Proposed Subdivision
Reserve Rd
West Seneca, New York

Issued for Construction: xx.xx.xx
Municipality Submission: xx.xx.xx
Drawn by: A. Pandolfie
Scale: As Noted

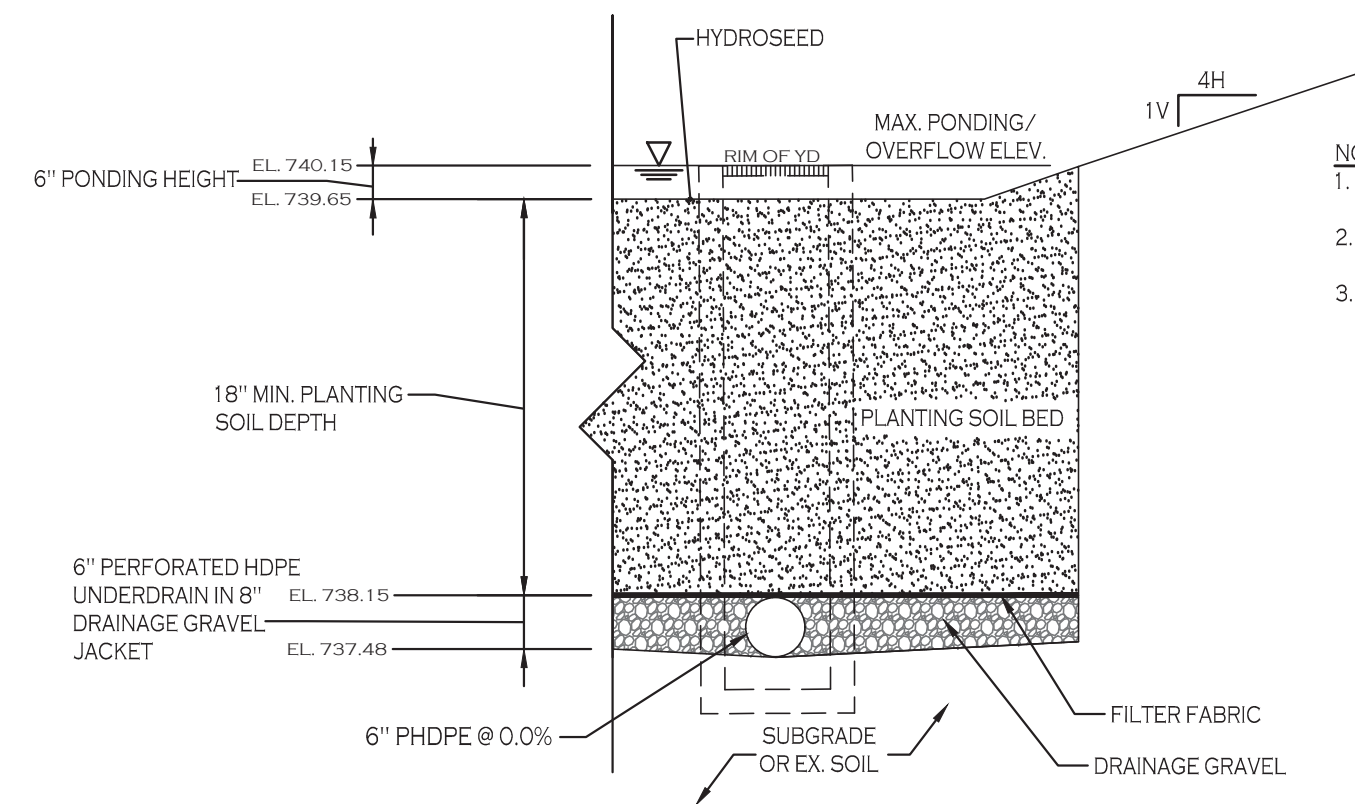
DRAWING NAME:
Paving & Drainage Profiles

DRAWING NO.
C-303

Project no.: 18.077

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BIORETENTION AREA #1 - TYPICAL SECTION

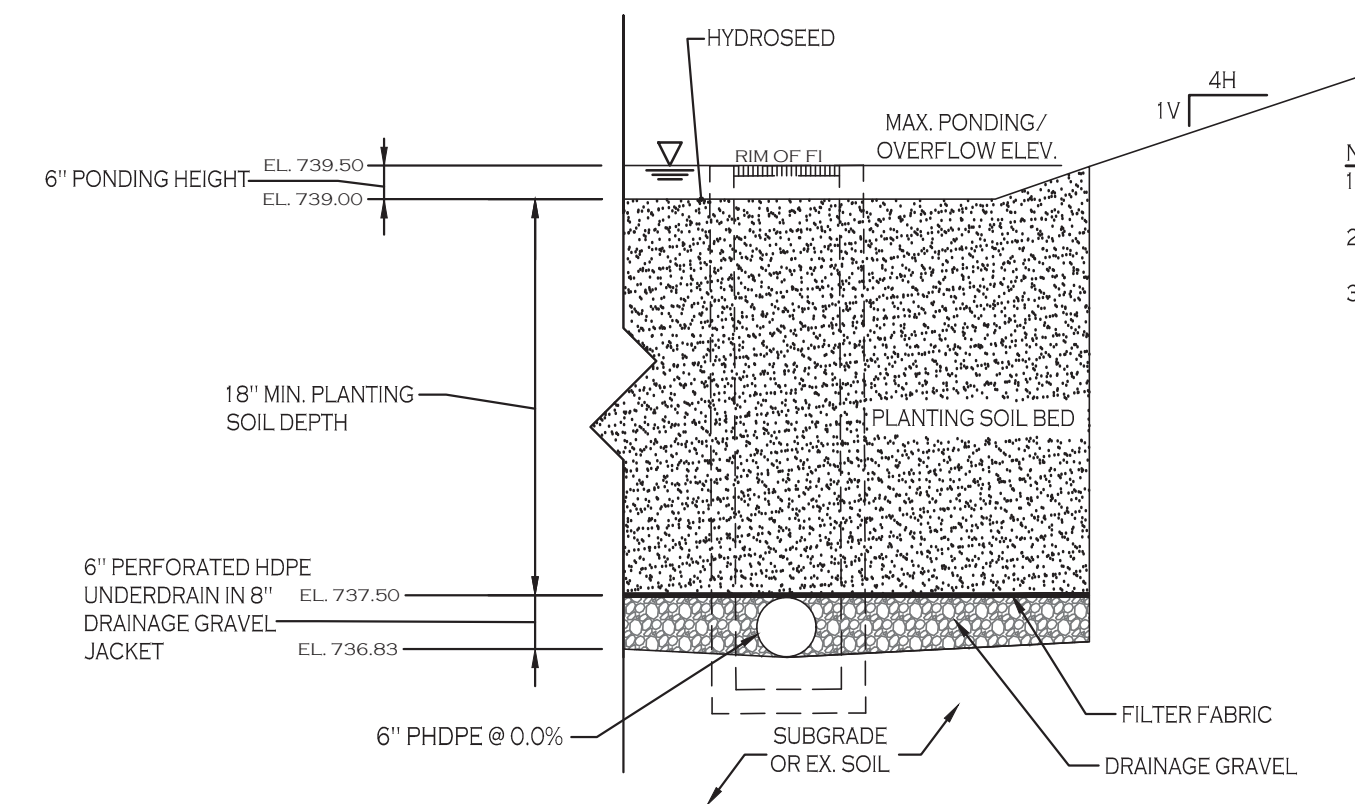
- NOTES:**
1. FILTER FABRIC TO BE NON-WOVEN CLASS 'C', MIRAFI 180N OR APPROVED EQUIVALENT
 2. DRAINAGE GRAVEL TO MEET AASHTO M-43, NO. 67, SIZE 0.25" TO 0.75"
 3. CONTRACTOR TO PROVIDE PLANTING SOIL SUBMITTAL SPECIFICATION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

NOTE: PLANTING SOIL SHALL BE LOAM/SAND MIX CONTAINING A MINIMUM OF 35 TO 60% SAND BY VOLUME AND LESS THAN 25% CLAY. SOIL SHOULD FALL WITHIN USCS TYPES SM OR ML WITH PERMEABILITY OF AT LEAST 1.0 FEET PER DAY. SOIL SHOULD BE FREE FROM STONES, STUMPS, ROOTS OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER. PLACEMENT OF THE PLANTING SOIL SHOULD BE IN LIFTS OF 12" TO 18", LOOSELY COMPACTED.

CHARACTERISTICS SHALL BE:
 PH RANGE: 5.2-7.00
 ORGANIC MATTER: 1.5-4.0%
 MAGNESIUM: 35 LBS PER ACRE MIN.
 PHOSPHORUS: 75 LBS PER ACRE MIN.
 POTASSIUM: 85 LBS PER ACRE MIN.
 SOLUBLE SALTS: 500 PPM
 CLAY: 10 TO 25%
 SILT: 30 TO 55%
 SAND: 35 TO 60%

BIORETENTION AREA SEEDING SPEC (NORTHEAST WETLAND GRASS SEED MIX):

SEED MIXTURE	VARIETY	PERCENT BY NO. OF SEEDS
CREEPING BENTGRASS	AGROSTIS STOLONIFERA	63.0
ROUGH BLUEGRASS	POA TRIVIALIS	17.0
MEADOW FOXTAIL	ALOPECURUS ARUNDINACEUS	11.0
ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	4.5
DEERTONGUE	PANICUM CLANDESTINUM	4.5



BIORETENTION AREA #2 - TYPICAL SECTION

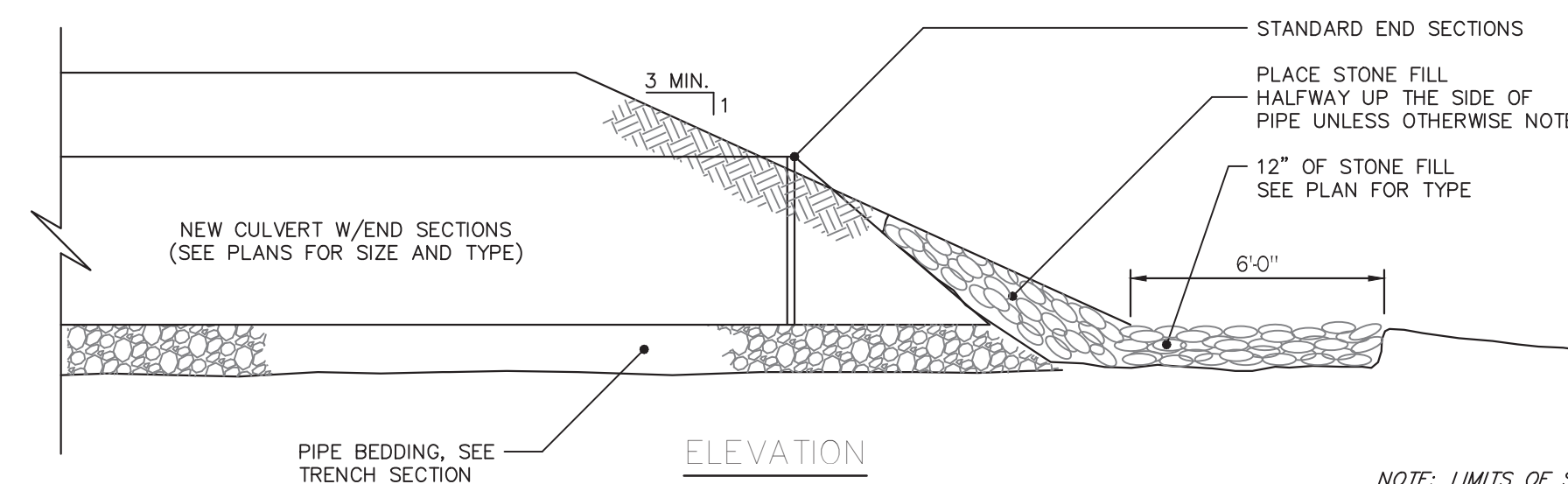
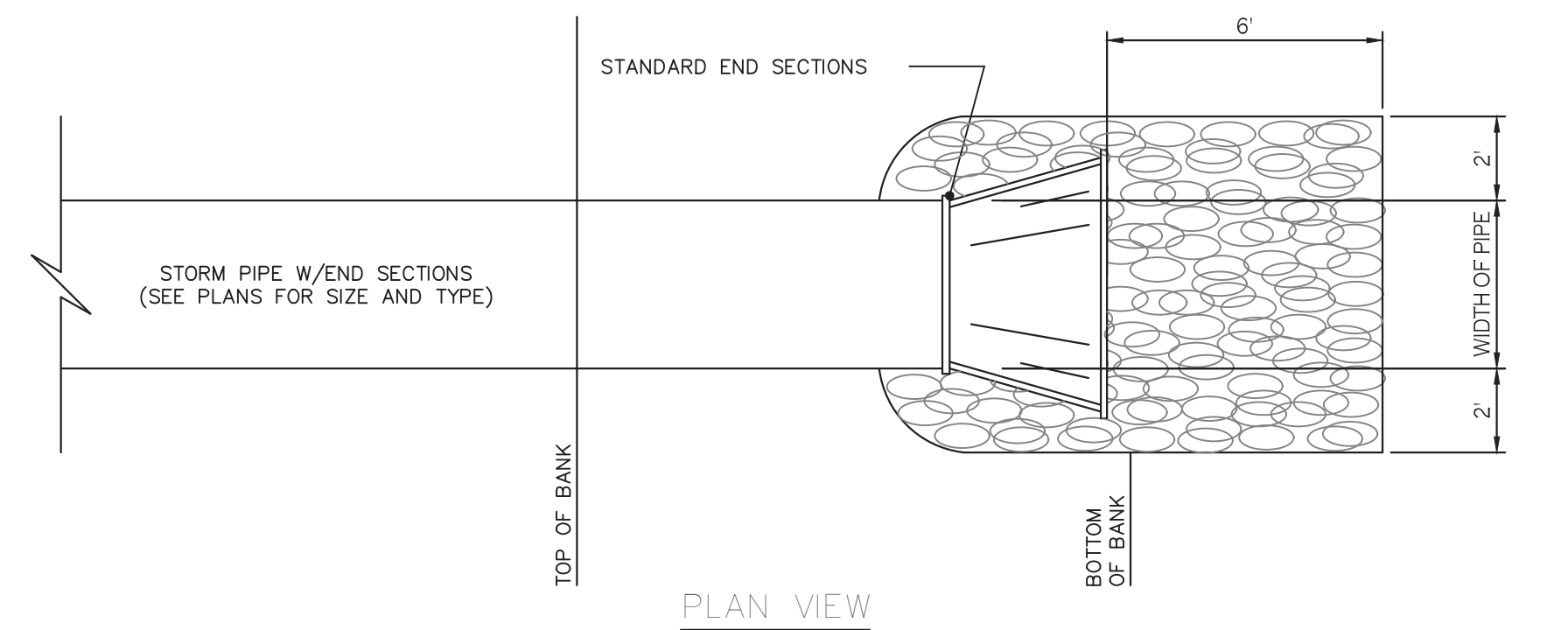
- NOTES:**
1. FILTER FABRIC TO BE NON-WOVEN CLASS 'C', MIRAFI 180N OR APPROVED EQUIVALENT
 2. DRAINAGE GRAVEL TO MEET AASHTO M-43, NO. 67, SIZE 0.25" TO 0.75"
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 PH RANGE: 5.2-7.00
 ORGANIC MATTER: 1.5-4.0%
 MAGNESIUM: 35 LBS PER ACRE MIN.
 PHOSPHORUS: 75 LBS PER ACRE MIN.
 POTASSIUM: 85 LBS PER ACRE MIN.
 SOLUBLE SALTS: 500 PPM
 CLAY: 10 TO 25%
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 SAND: 35 TO 60%

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CREEPING BENTGRASS	AGROSTIS STOLONIFERA	63.0
ROUGH BLUEGRASS	POA TRIVIALIS	17.0
MEADOW FOXTAIL	ALOPECURUS ARUNDINACEUS	11.0
ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	4.5
DEERTONGUE	PANICUM CLANDESTINUM	4.5



TYPICAL PIPE OUTLET W/END SECTION & RIP RAP
 NOT TO SCALE

NOTE: LIMITS OF STONE SHOWN ARE MINIMUMS, PLAN MAY INDICATE GREATER LIMITS



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 Buffalo, New York 14203
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REVISIONS: No. Description Date

PROJECT NAME:
 New Construction
Proposed Subdivision
 Reserve Rd
 West Seneca, New York

Issued for Construction: xx.xx.xx
 Municipality Submission: xx.xx.xx
 Drawn by: A. Pandolfie
 Scale: As Noted

DRAWING NAME:
 Storm Drainage
 Details

DRAWING NO.:
C-304

Project no.: 18.077

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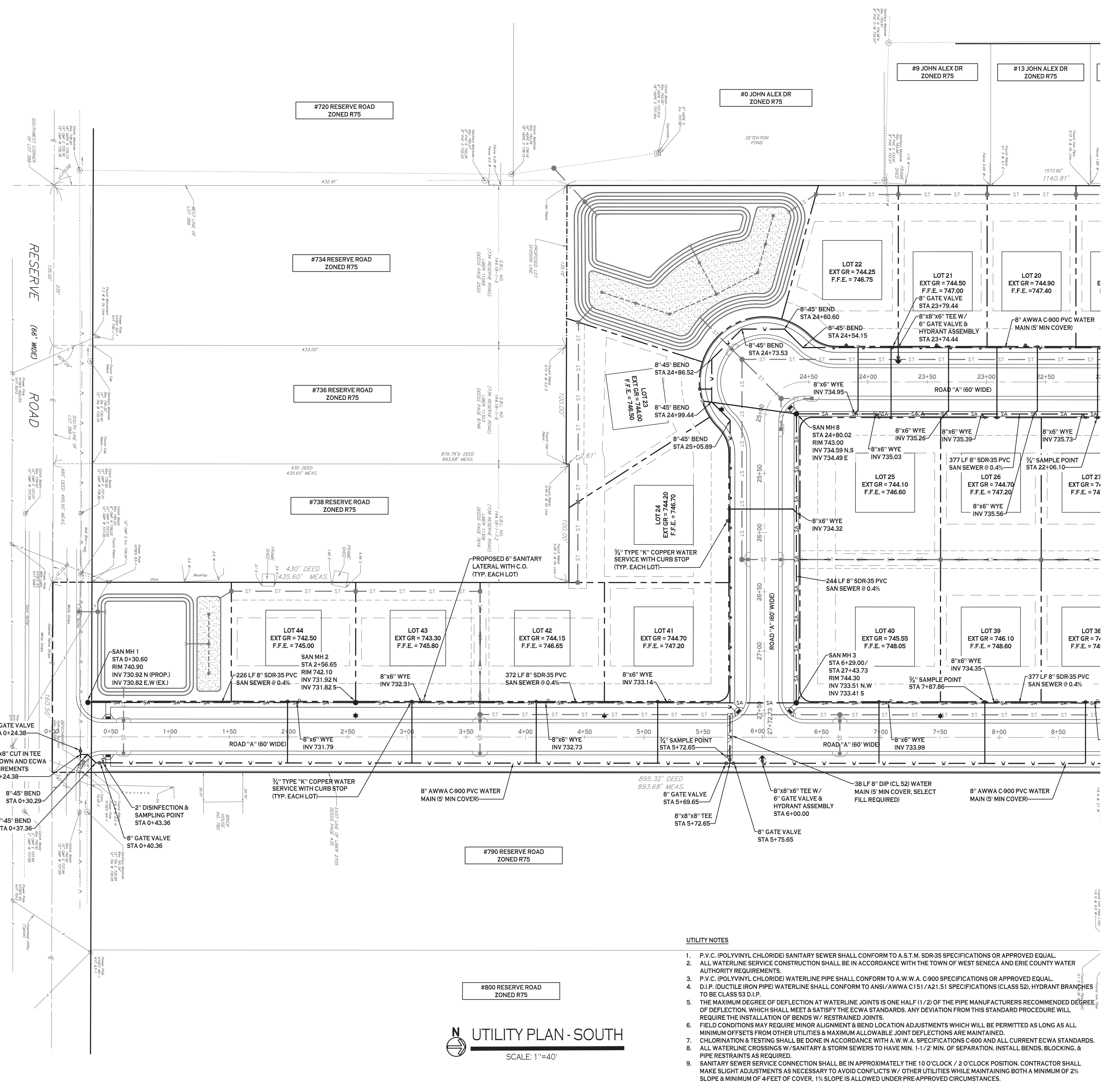
REVISIONS:	No.	Description	Date

PROJECT NAME:
New Construction
Proposed Subdivision
 Reserve Rd
 West Seneca, New York

Issued for Construction: xx.xx.xx
 Municipality Submission: xx.xx.xx
 Drawn by: A. Pandolfi
 Scale: As Noted

DRAWING NAME:
Utility Plan - South

DRAWING NO.
C-400
 Project no.: 18.077



UTILITY PLAN - SOUTH
 SCALE: 1"=40'

- UTILITY NOTES**
- P.V.C. (POLYVINYL CHLORIDE) SANITARY SEWER SHALL CONFORM TO A.S.T.M. SDR-35 SPECIFICATIONS OR APPROVED EQUAL.
 - ALL WATERLINE SERVICE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF WEST SENECA AND ERIC COUNTY WATER AUTHORITY REQUIREMENTS.
 - P.V.C. (POLYVINYL CHLORIDE) WATERLINE PIPE SHALL CONFORM TO A.W.W.A. C-900 SPECIFICATIONS OR APPROVED EQUAL.
 - D.I.P. (DUCTILE IRON PIPE) WATERLINE SHALL CONFORM TO ANSI/AWWA C151/A21.51 SPECIFICATIONS (CLASS 52). HYDRANT BRANCHES TO BE CLASS 53 D.I.P.
 - THE MAXIMUM DEGREE OF DEFLECTION AT WATERLINE JOINTS IS ONE HALF (1/2) OF THE PIPE MANUFACTURERS RECOMMENDED DEGREE OF DEFLECTION, WHICH SHALL MEET & SATISFY THE ECWA STANDARDS. ANY DEVIATION FROM THIS STANDARD PROCEDURE WILL REQUIRE THE INSTALLATION OF BENDS W/ RESTRAINED JOINTS.
 - FIELD CONDITIONS MAY REQUIRE MINOR ALIGNMENT & BEND LOCATION ADJUSTMENTS WHICH WILL BE PERMITTED AS LONG AS ALL MINIMUM OFFSETS FROM OTHER UTILITIES & MAXIMUM ALLOWABLE JOINT DEFLECTIONS ARE MAINTAINED.
 - CHLORINATION & TESTING SHALL BE DONE IN ACCORDANCE WITH A.W.W.A. SPECIFICATIONS C-600 AND ALL CURRENT ECWA STANDARDS.
 - ALL WATERLINE CROSSINGS W/ SANITARY & STORM SEWERS TO HAVE MIN. 1'-1/2" MIN. OF SEPARATION. INSTALL BENDS, BLOCKING, & PIPE RESTRAINTS AS REQUIRED.
 - SANITARY SEWER SERVICE CONNECTION SHALL BE IN APPROXIMATELY THE 10 O'CLOCK / 2 O'CLOCK POSITION. CONTRACTOR SHALL MAKE SLIGHT ADJUSTMENTS AS NECESSARY TO AVOID CONFLICTS W/ OTHER UTILITIES WHILE MAINTAINING BOTH A MINIMUM OF 2% SLOPE & MINIMUM OF 4 FEET OF COVER. 1% SLOPE IS ALLOWED UNDER PRE-APPROVED CIRCUMSTANCES.

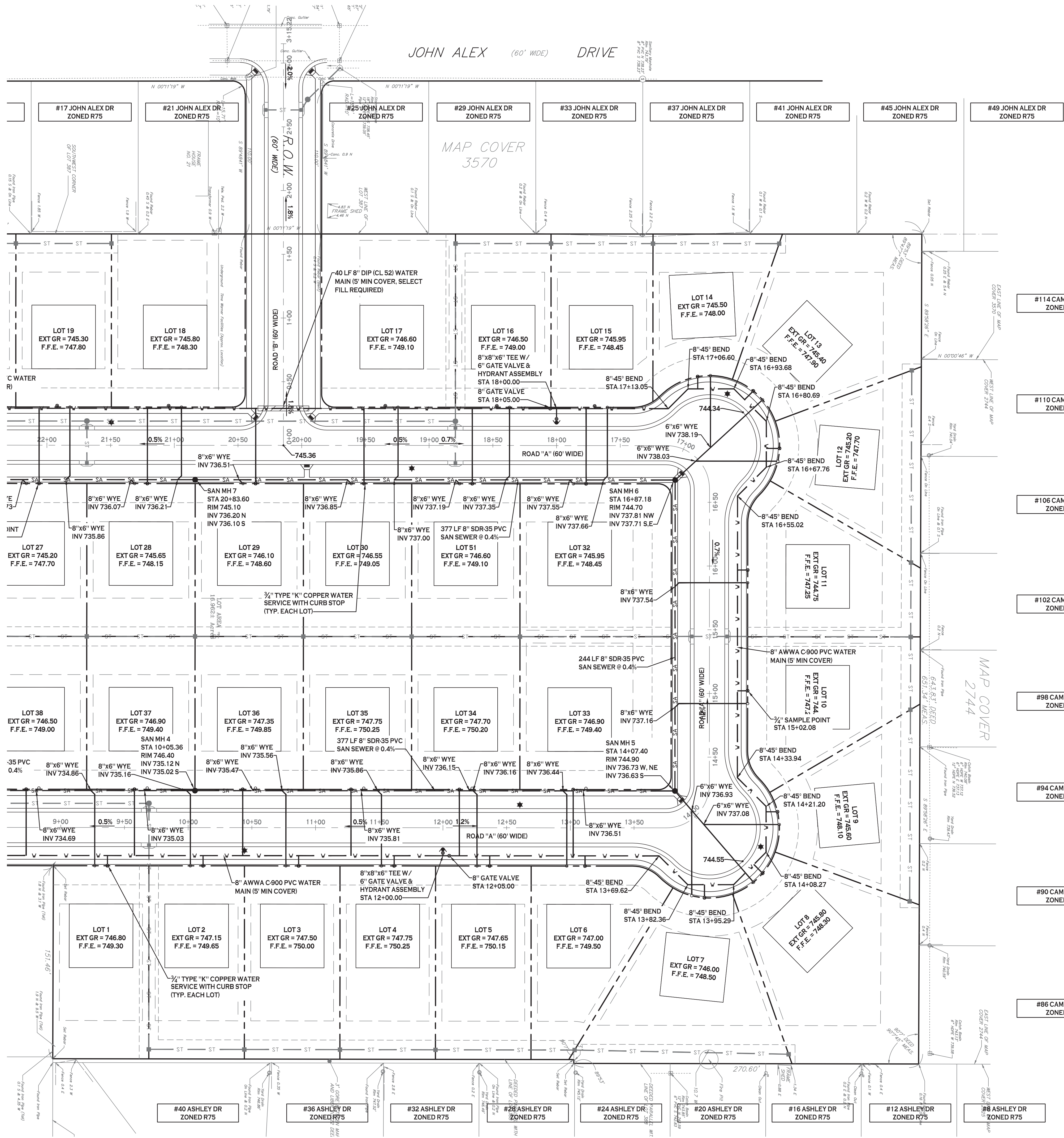
PROPOSED UTILITY LEGEND

PROPOSED STORM SEWER	— ST —
PROPOSED SANITARY SEWER	— SA —
PROPOSED WATERLINE	— W —
PROPOSED CATCH BASIN	■ CB
PROPOSED YARD DRAIN	● YD
PROPOSED MANHOLE	● MH
PROPOSED HYDRANT ASSEMBLY	▲
PROPOSED GATE VALVE	⊗ GV

NOTE: FOR PROPOSED VALVE BOXES, CLEANOUTS, ETC., INSTALL A 3,000 PSI CONCRETE COLLAR AROUND THE ITEM AT GRADE. THE COLLAR SHALL BE A MINIMUM OF 6" WIDER ON ALL SIDES THAN THE BOX, CLEANOUT, ETC. THE COLLAR SHALL BE A MINIMUM OF 6" THICK.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD MORRIS, P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

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UTILITY NOTES

1. P.V.C. (POLYVINYL CHLORIDE) SANITARY SEWER SHALL CONFORM TO A.S.T.M. SDR-35 SPECIFICATIONS OR APPROVED EQUAL.
2. ALL WATERLINE SERVICE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF WEST SENECA AND ERIE COUNTY WATER AUTHORITY REQUIREMENTS.
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PROPOSED UTILITY LEGEND

- PROPOSED STORM SEWER — ST —
- PROPOSED SANITARY SEWER — SA —
- PROPOSED WATERLINE — W —
- PROPOSED CATCH BASIN — CB —
- PROPOSED YARD DRAIN — YD —
- PROPOSED MANHOLE — MH —
- PROPOSED HYDRANT ASSEMBLY — HA —
- PROPOSED GATE VALVE — GV —

NOTE: FOR PROPOSED VALVE BOXES, CLEANOUTS, ETC., INSTALL A 3,000 PSI CONCRETE COLLAR AROUND THE ITEM AT GRADE. THE COLLAR SHALL BE A MINIMUM OF 6" WIDER ON ALL SIDES THAN THE BOX, CLEANOUT, ETC. THE COLLAR SHALL BE A MINIMUM OF 6" THICK.

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N UTILITY PLAN - NORTH

SCALE: 1"=40'



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REVISIONS:	No.	Description	Date

Proposed Subdivision
 Reserve Rd
 West Seneca, New York

PROJECT NAME:
 New Construction

Issued for Construction: xx.xx.xx
 Municipality Submission: xx.xx.xx
 Drawn by: A. Pandolfi
 Scale: As Noted

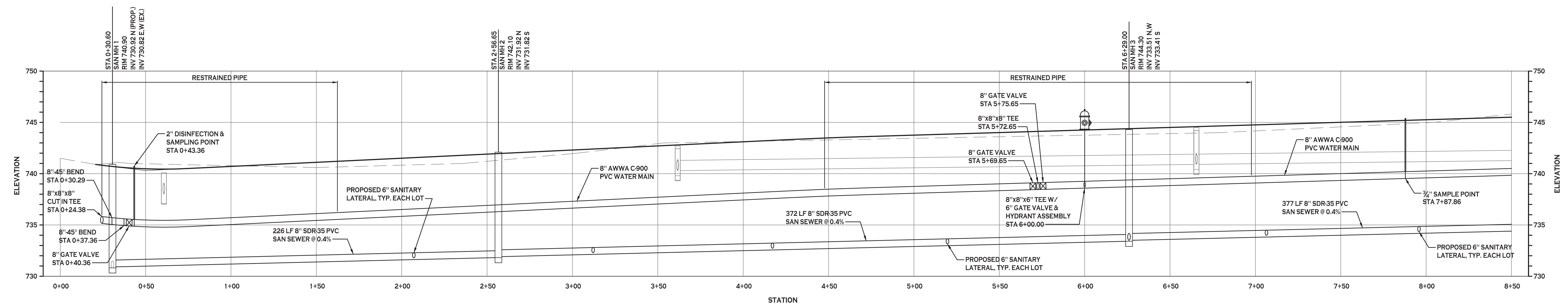
DRAWING NAME:
 Utility Plan - North

DRAWING NO.
C-401

Project no.: 18.077

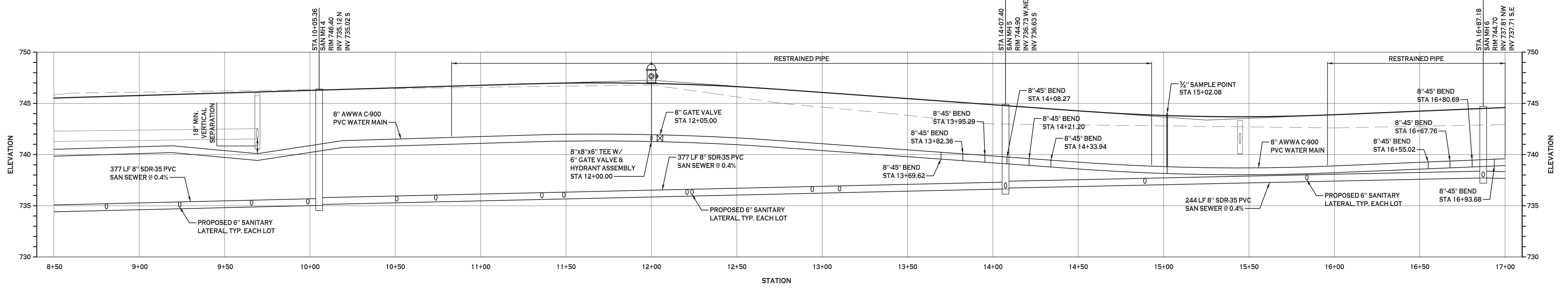
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UTILITY PROFILE ROAD "A" STA 0+00-8+50

HORZ. SCALE: 1"=30'
VERT. SCALE: 1"=5'



UTILITY PROFILE ROAD "A" STA 8+50-17+00

HORZ. SCALE: 1"=30'
VERT. SCALE: 1"=5'



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REVISIONS:	No.	Description	Date

PROJECT NAME:
**New Construction
Proposed Subdivision
Reserve Rd
West Seneca, New York**

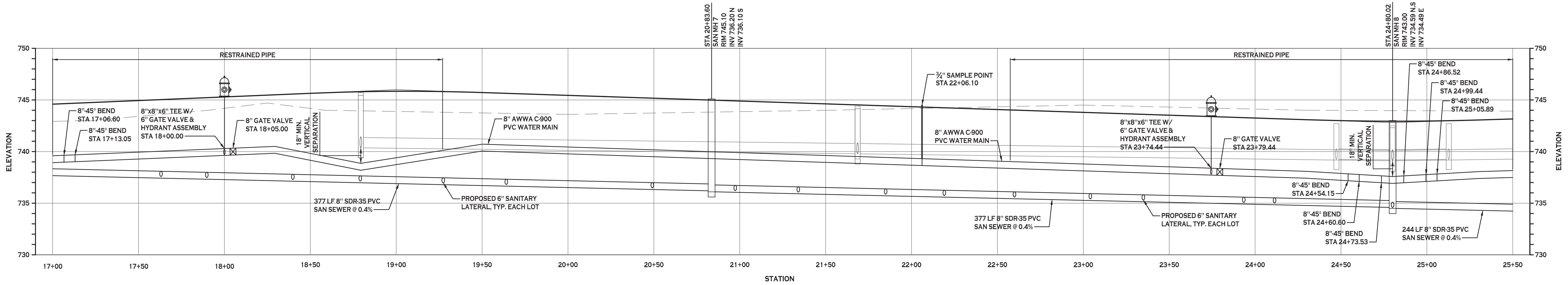
Issued for Construction: xx.xx.xx
Municipality Submission: xx.xx.xx
Drawn by: A. Pandolfie
Scale: As Noted

DRAWING NAME:
Utility Profiles

DRAWING NO.
C-402
Project no.: 18.077

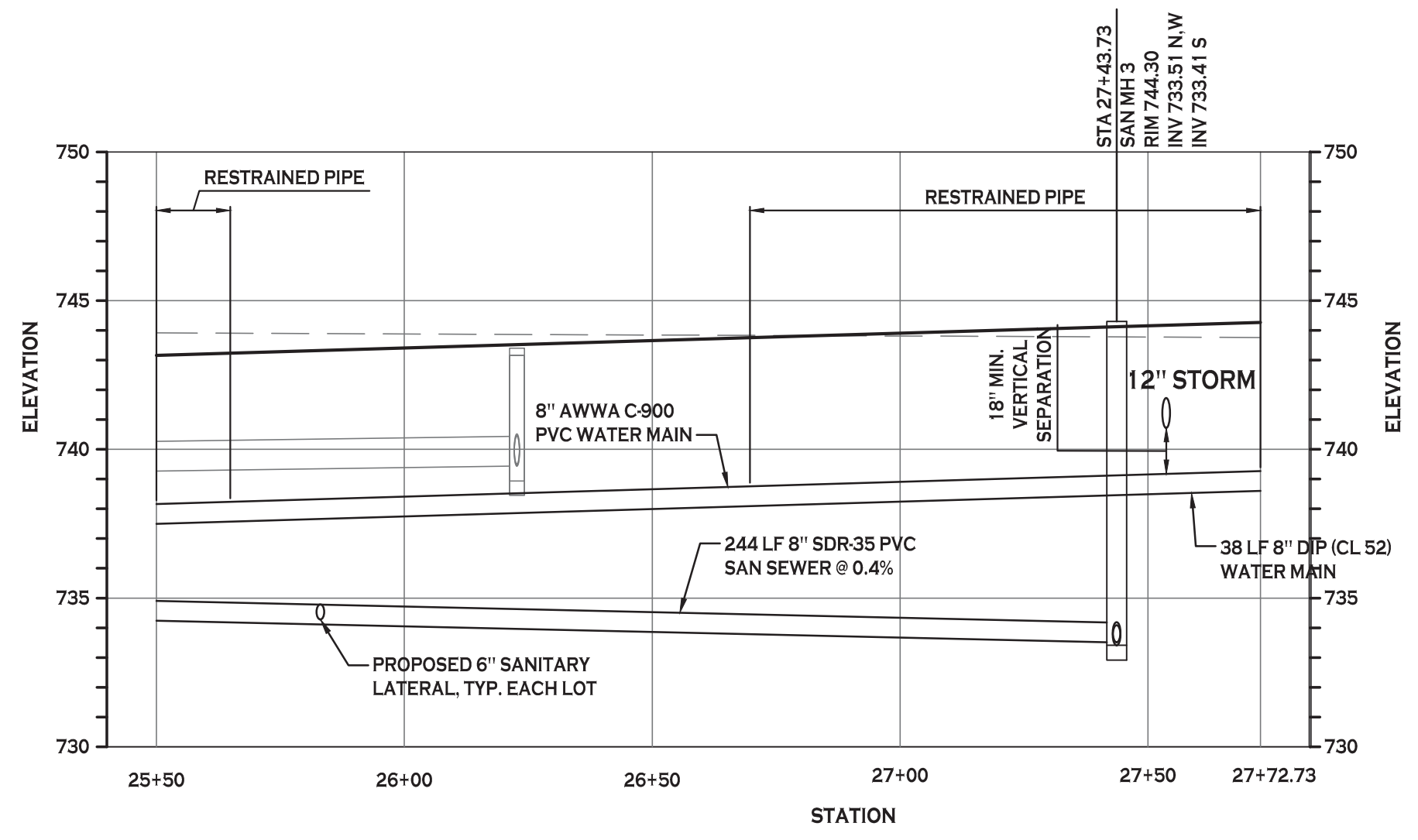
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UTILITY PROFILE ROAD "A" STA 17+00 - 25+50

HORZ. SCALE: 1"=30'
VERT. SCALE: 1"=5'



UTILITY PROFILE ROAD "A" STA 25+50 - 27+72.73

HORZ. SCALE: 1"=30'
VERT. SCALE: 1"=5'



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Morris**
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REVISIONS:

No.	Description	Date

PROJECT NAME:
**New Construction
Proposed Subdivision
Reserve Rd
West Seneca, New York**

Issued for Construction: xx.xx.xx
Municipality Submission: xx.xx.xx
Drawn by: A. Pandolfi
Scale: As Noted

DRAWING NAME:
Utility Profiles

DRAWING NO.
C-403
Project no.: 18.077

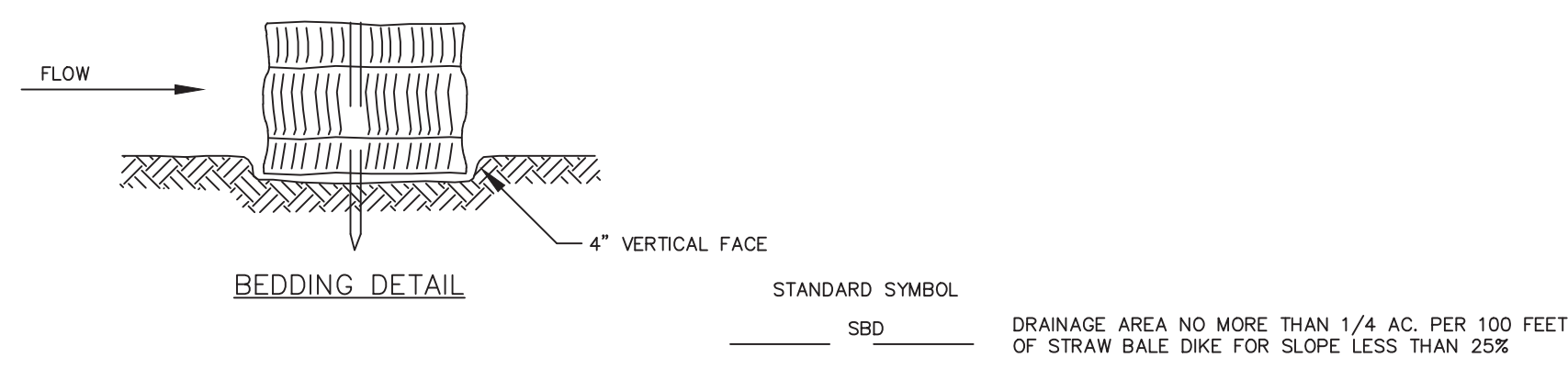


FIGURE 5A.8
STRAW BALE DIKE DETAILS (SBD)

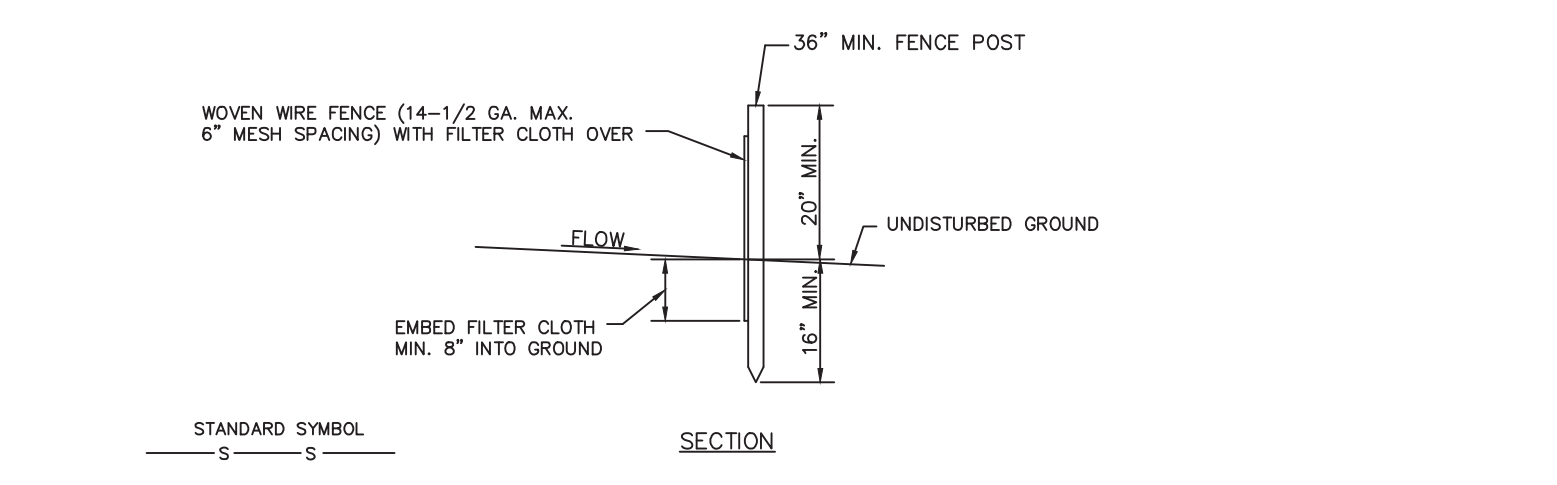


FIGURE 5A.9
SILT FENCE DETAILS (SF)

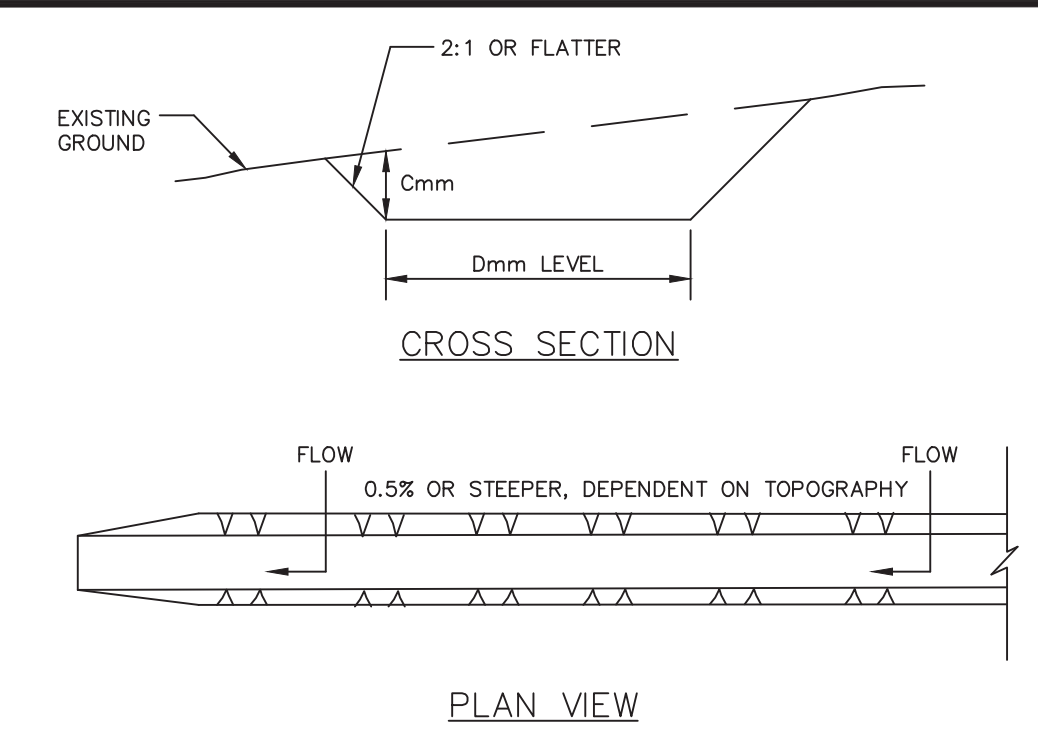


FIGURE 5A.2
TEMPORARY SWALE DETAIL

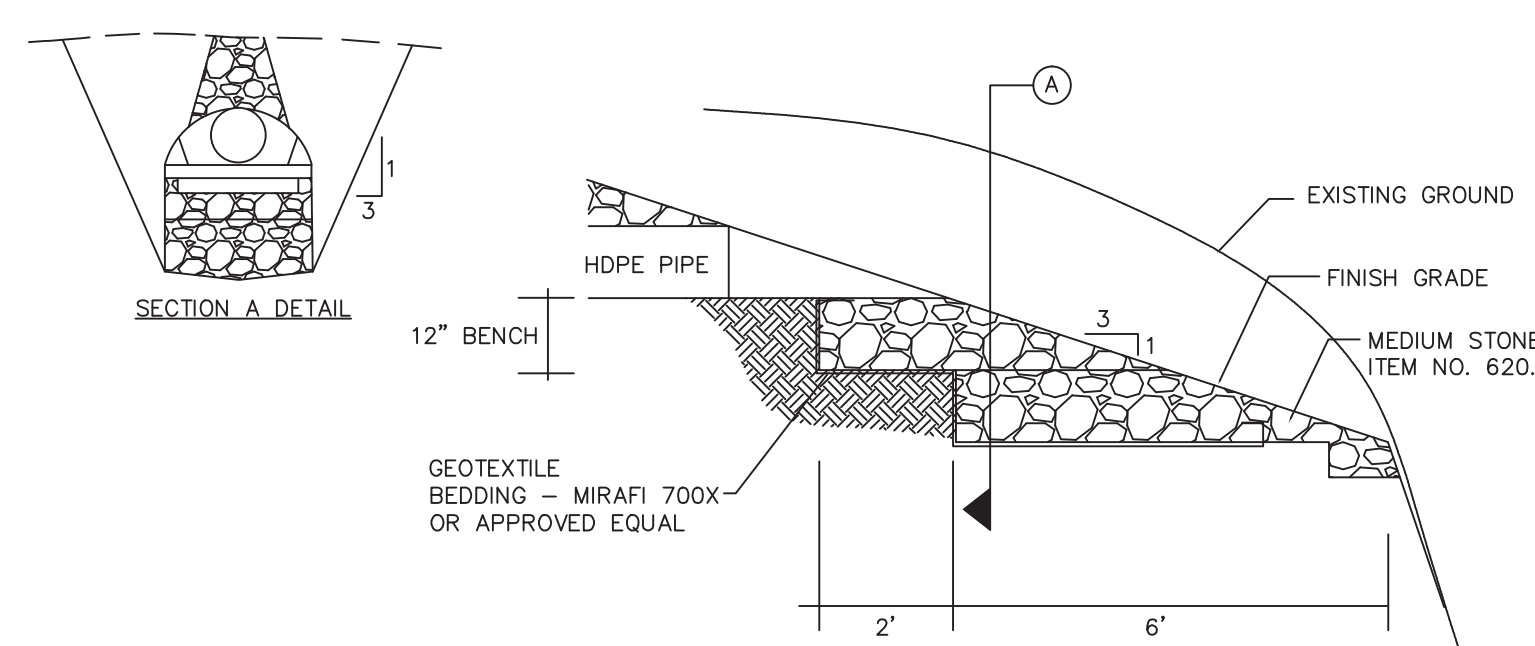


FIGURE 5A.10
BENCHD RIP-RAP DETAIL

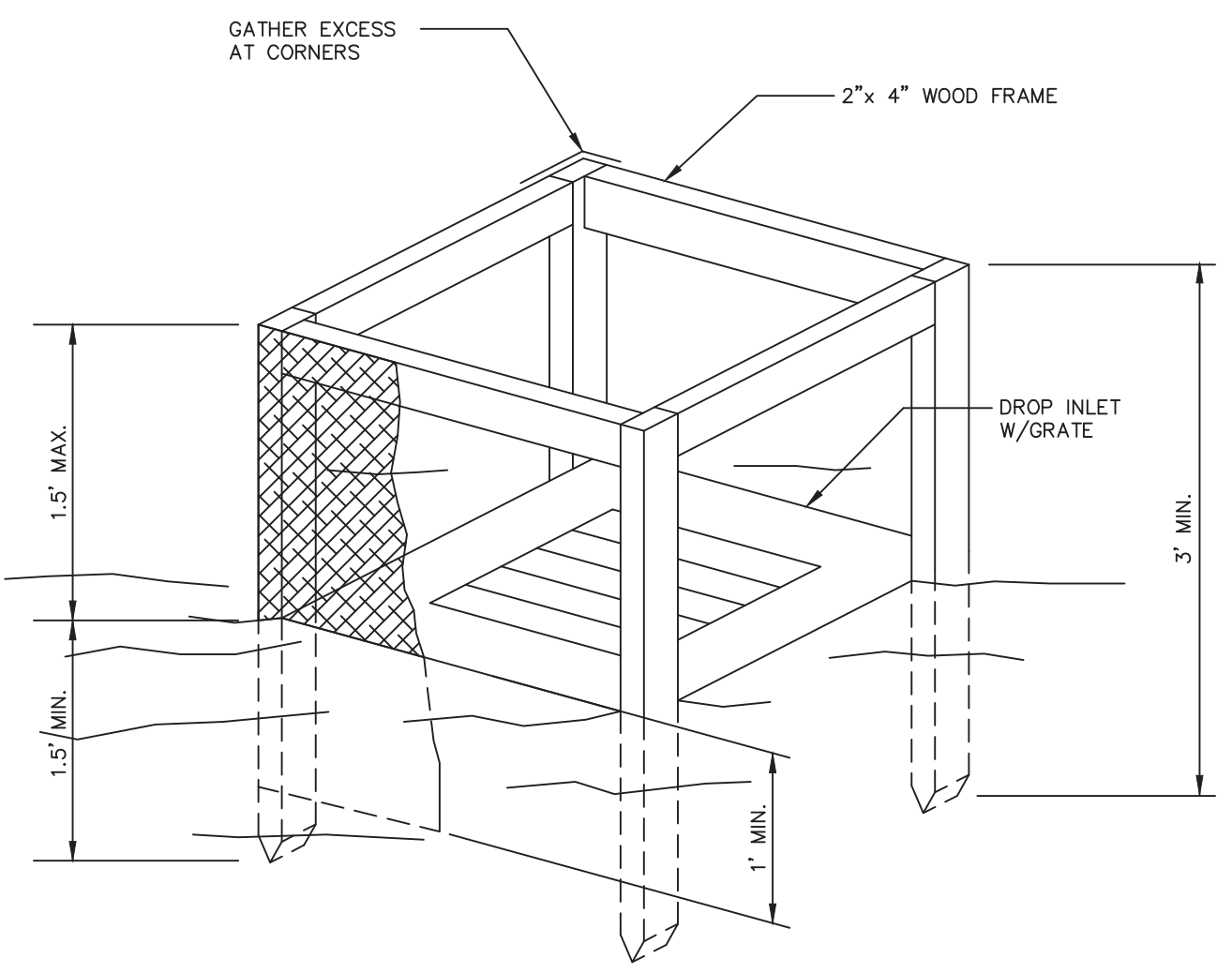


FIGURE 5A.11
FILTER FABRIC DROP INLET PROTECTION DETAIL (FFIP)

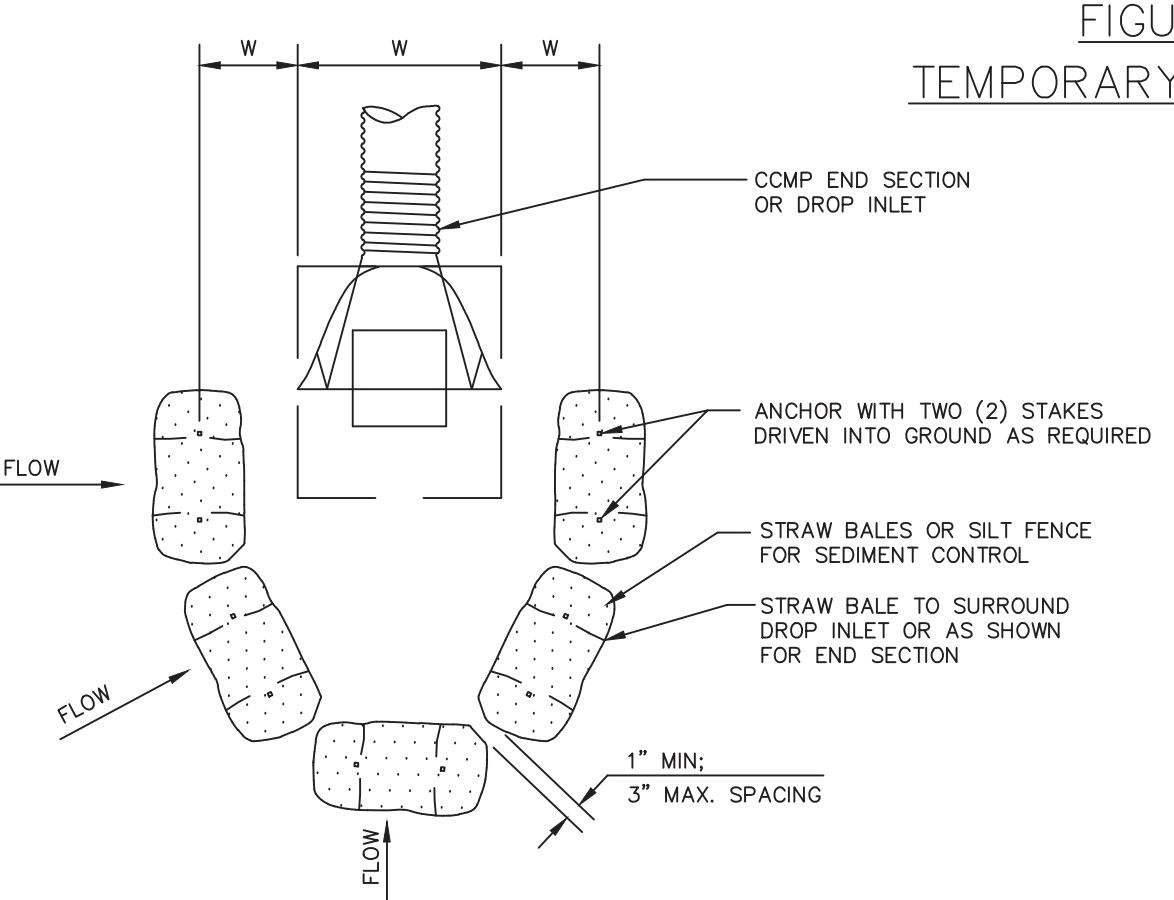


FIGURE 5A.12
STORM INLET SEDIMENT TRAP (SIST)

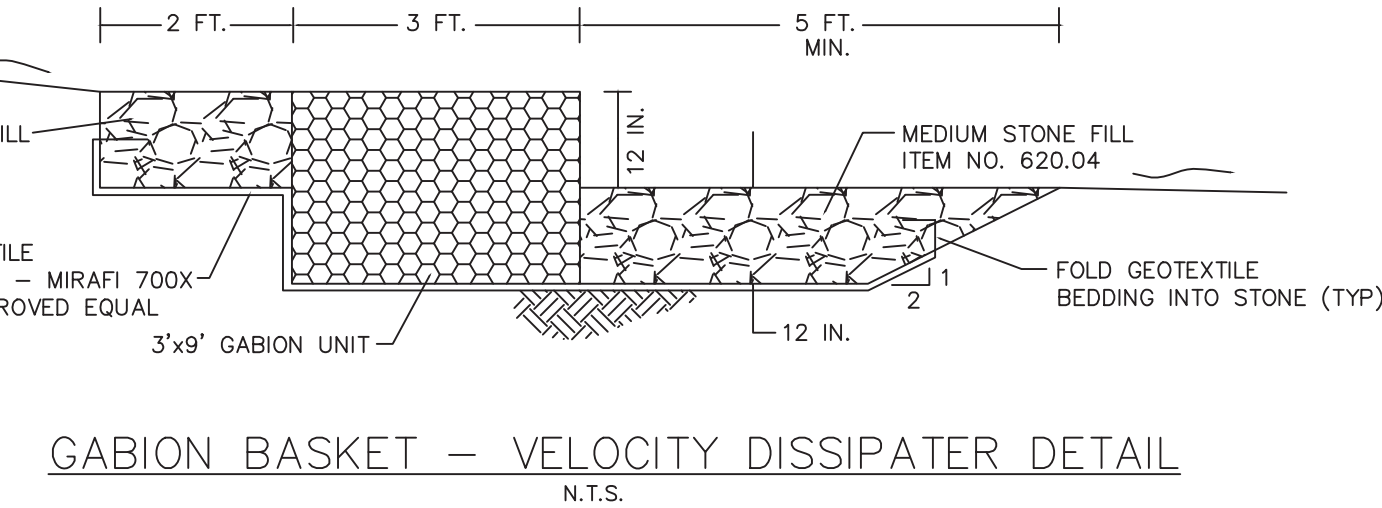
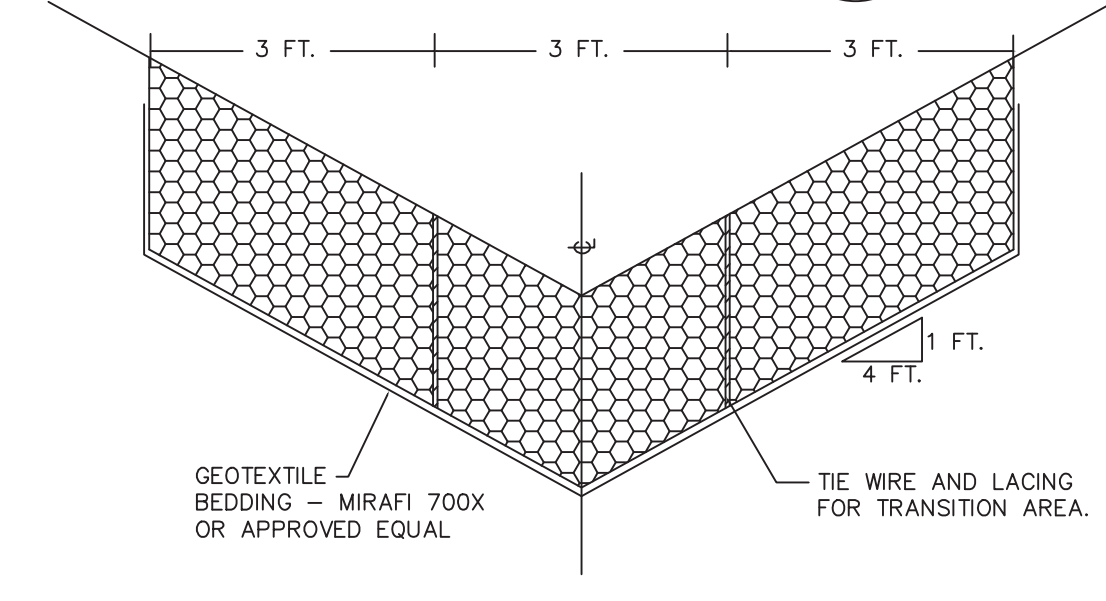
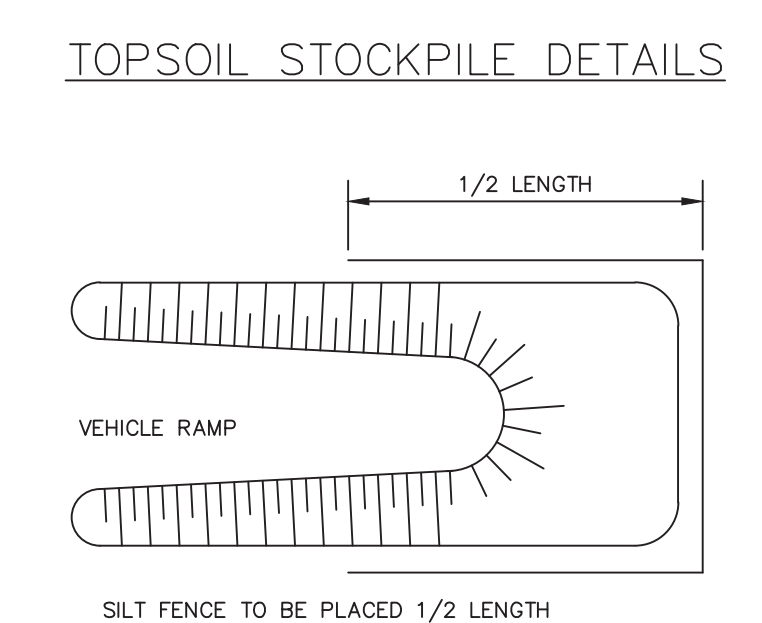


FIGURE 5A.13
GABION BASKET - VELOCITY DISSIPATER DETAIL

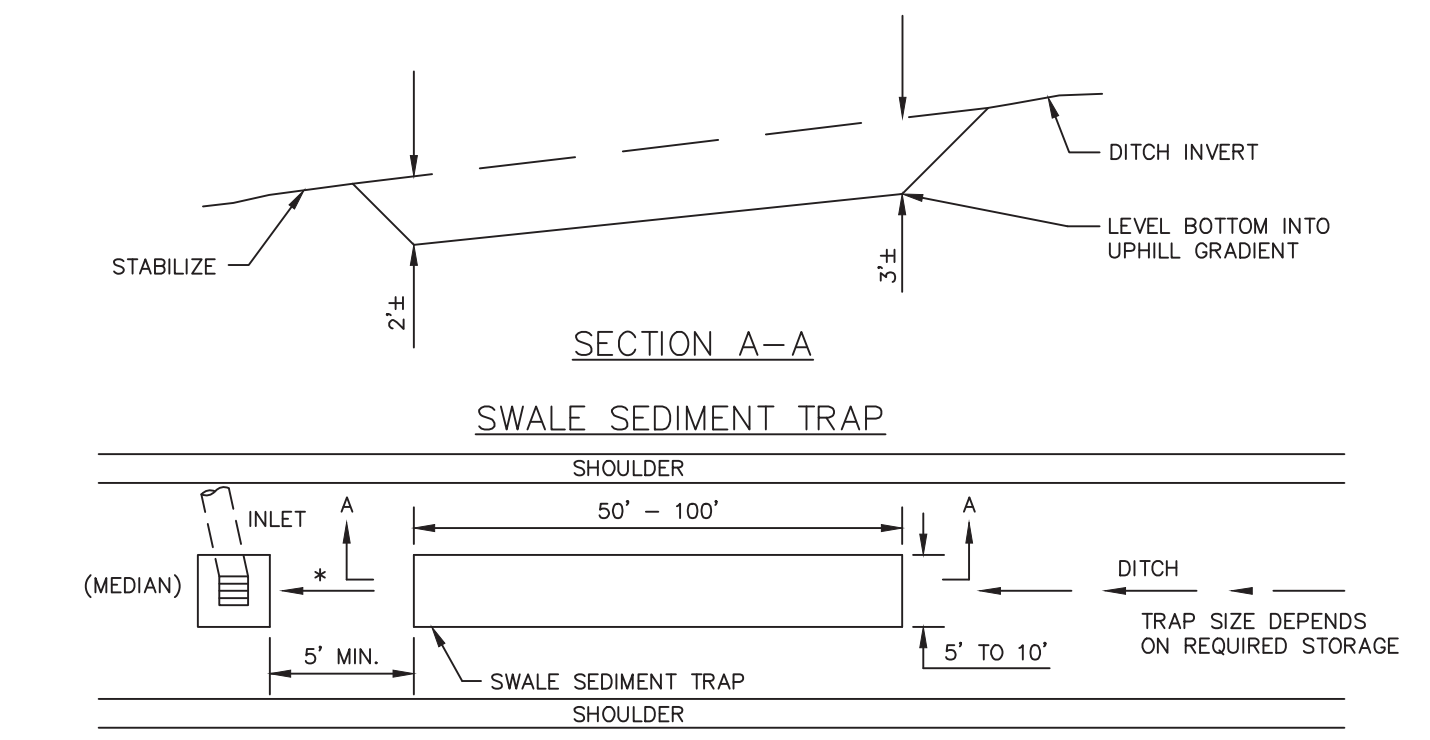


FIGURE 5A.14
SWALE SEDIMENT TRAP

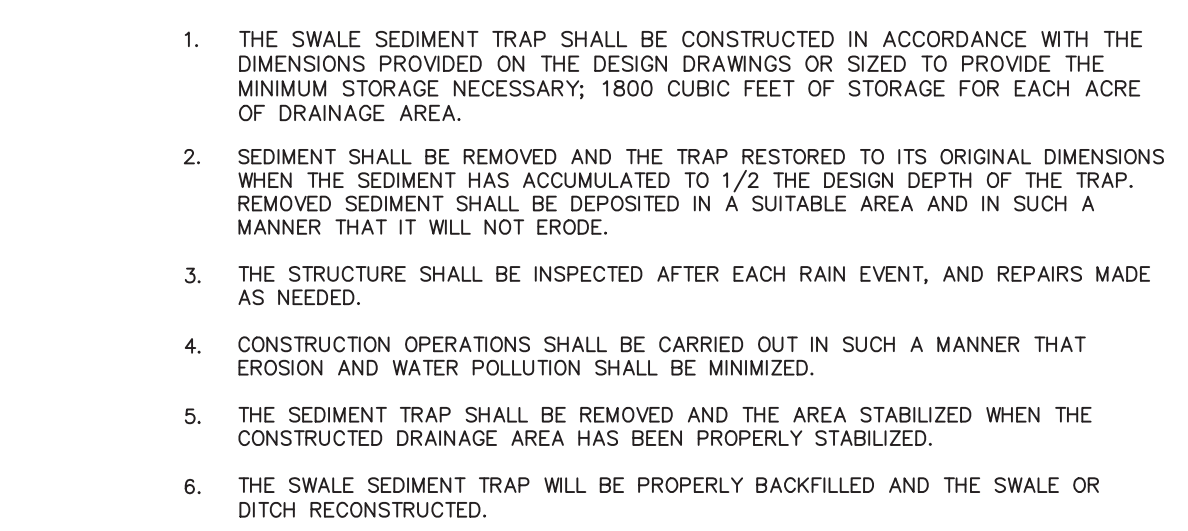


FIGURE 5A.20
SWALE OUTLET SEDIMENT TRAP: ST-IV

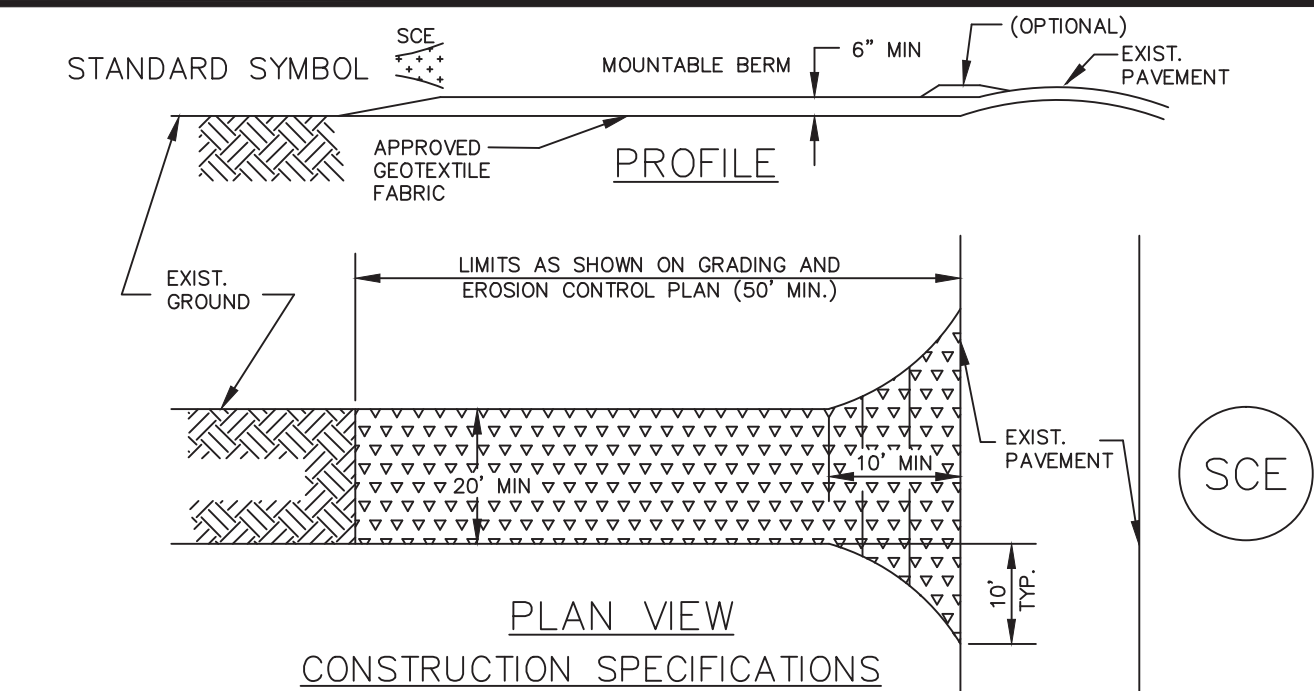


FIGURE 5A.38
STABILIZED CONSTRUCTION ENTRANCE DETAILS

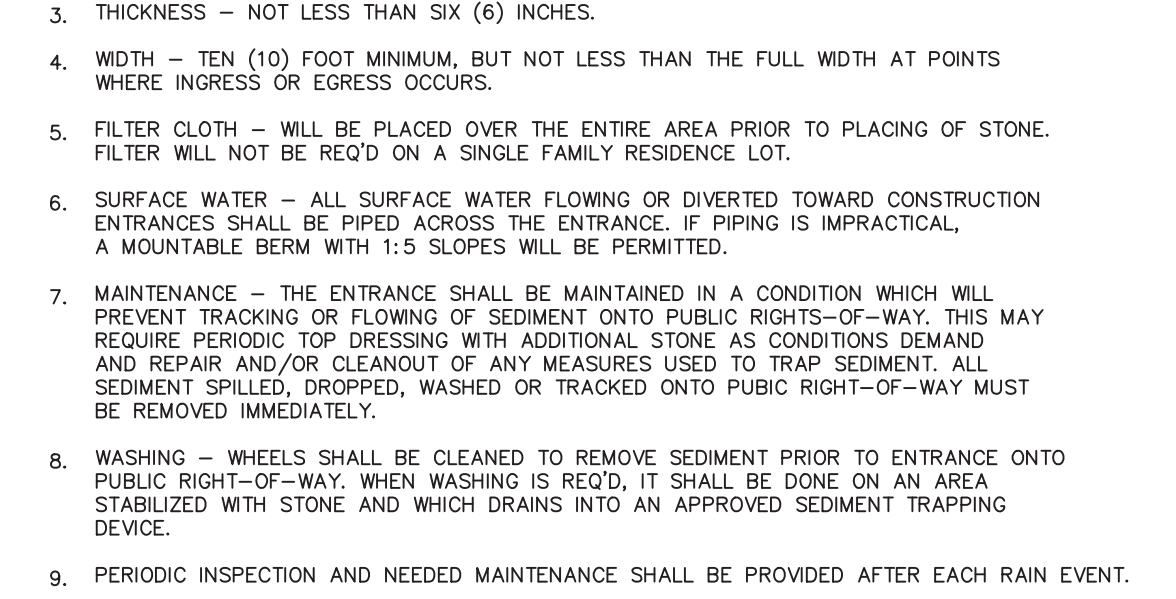


FIGURE 5A.38
SEQUENCE OF CONSTRUCTION

TYPE OF TREATMENT	CHANNEL GRADE	FLOW CHANNEL STABILIZATION	
		A (5 AC OR LESS)	B (5 AC - 10AC)
1	0.5-3%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED WITH JUTE OR EXCELISOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELISOR, 500	LINED RIP-RAP 4-8" RECYCLED CONCRETE EQUIVALENT
4	8.1-20%	LINED 4-8" RIP-RAP	ENGINEERED DESIGN

FIGURE 5A.2
TEMPORARY SWALE DETAIL

FIGURE 5A.38
SEQUENCE OF CONSTRUCTION

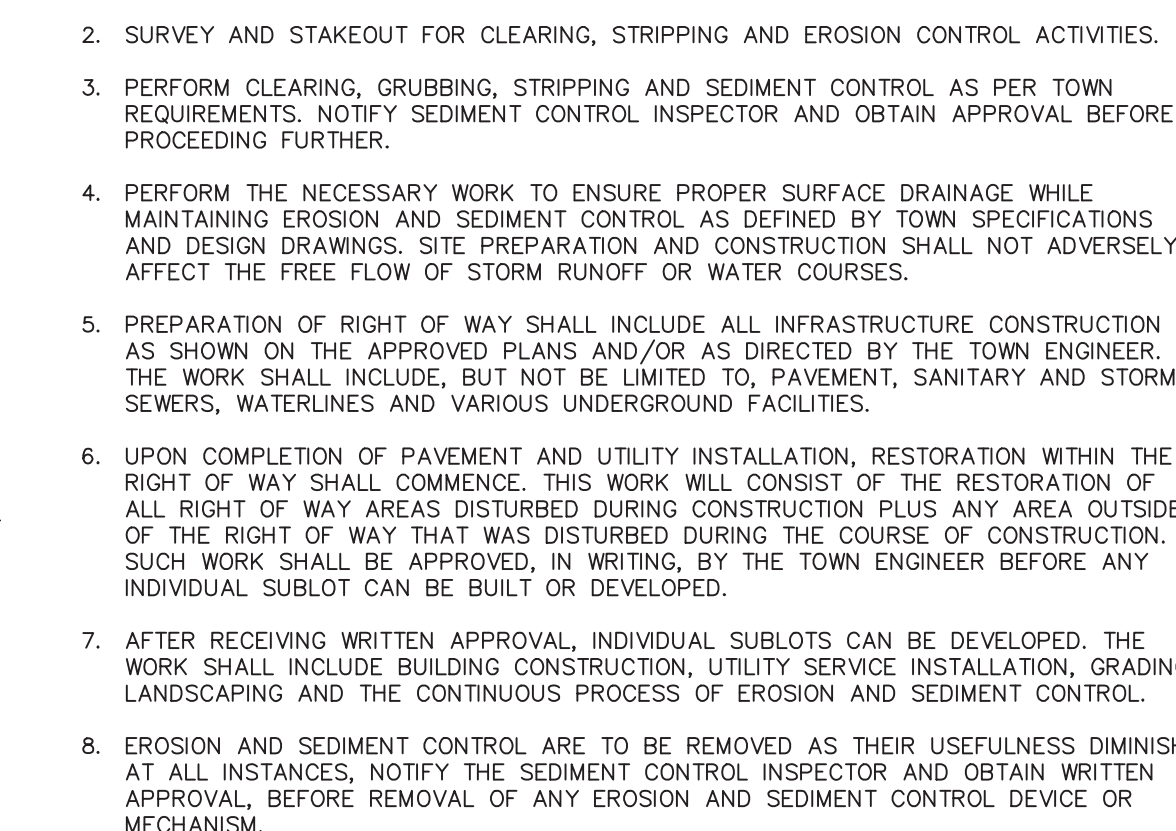


FIGURE 5A.38
SEDIMENT AND EROSION CONTROL NOTES:

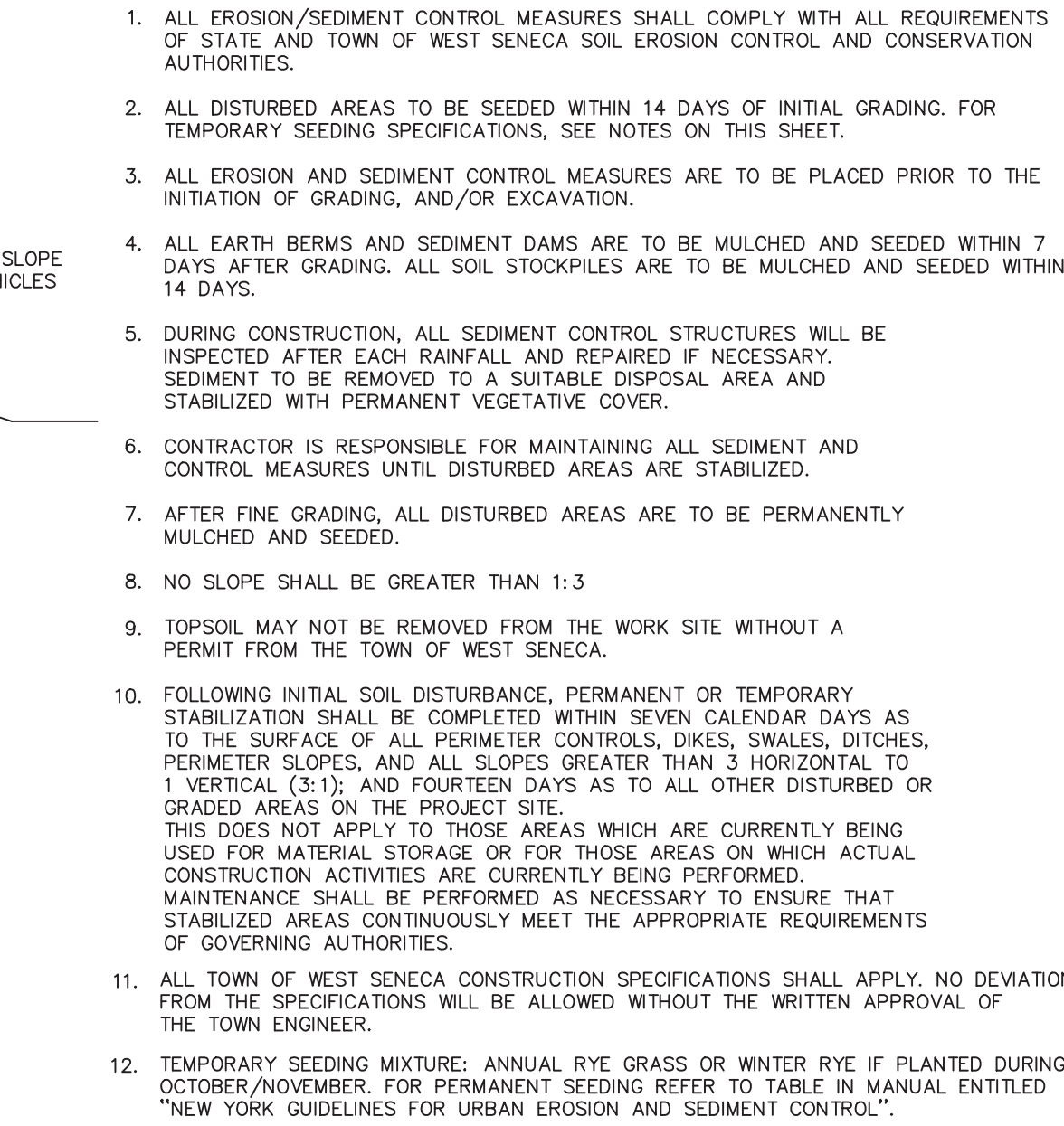
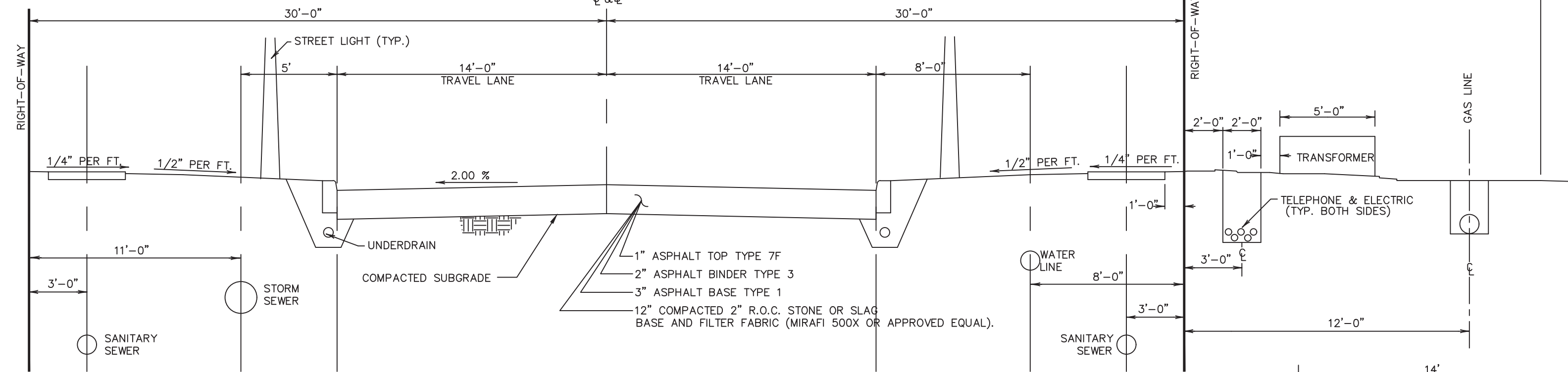
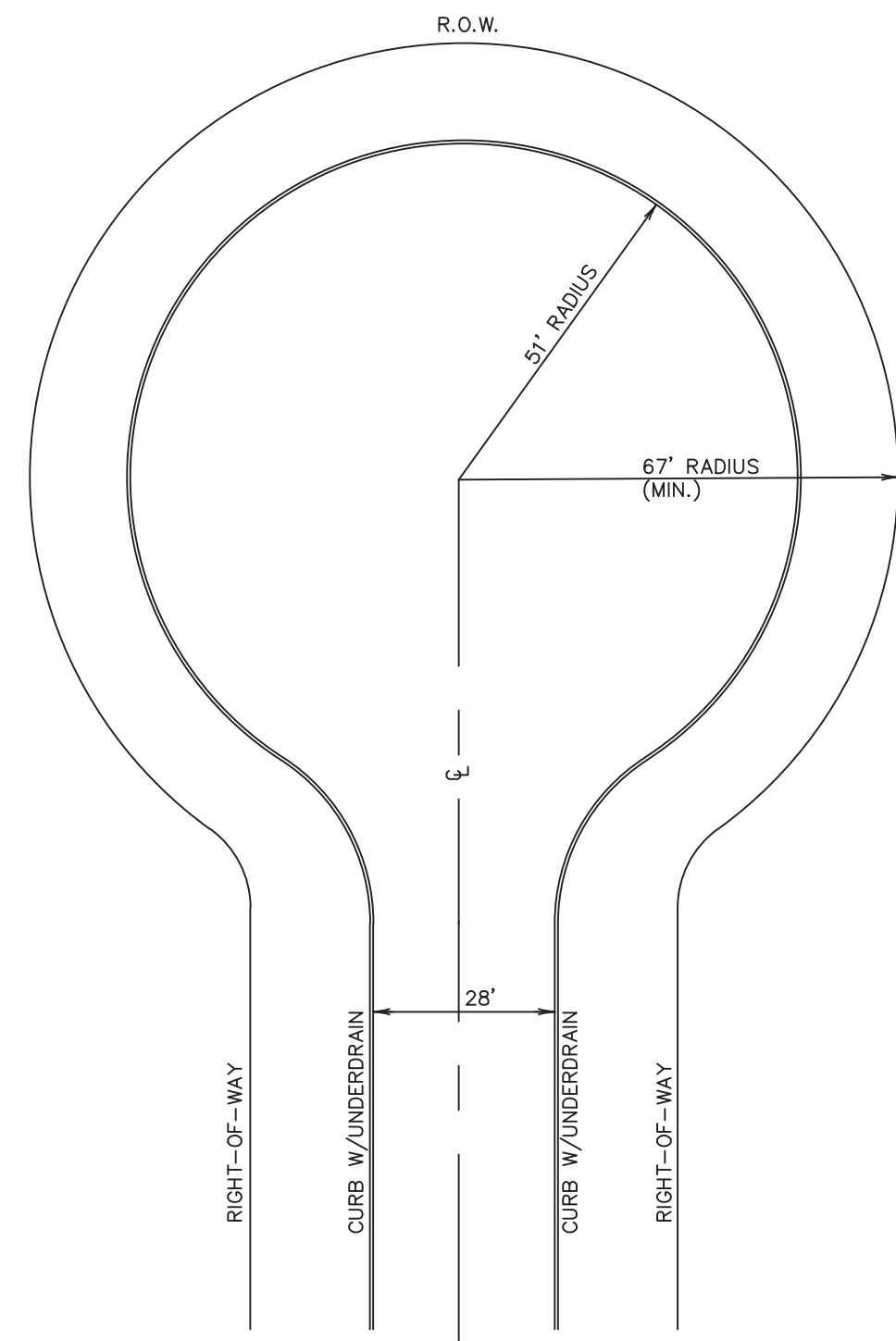


FIGURE 5A.38
TOPSOIL STOCKPILE DETAILS

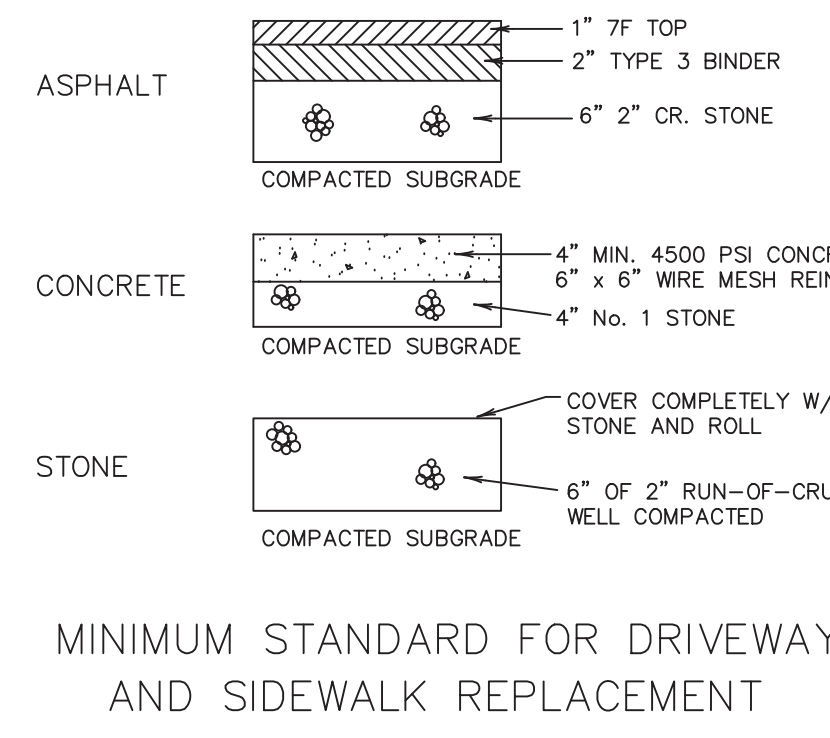
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1250 UNION ROAD, WEST SENECA, N.Y. 14224
PHONE : 674-5600

EROSION AND SEDIMENT CONTROL DETAILS

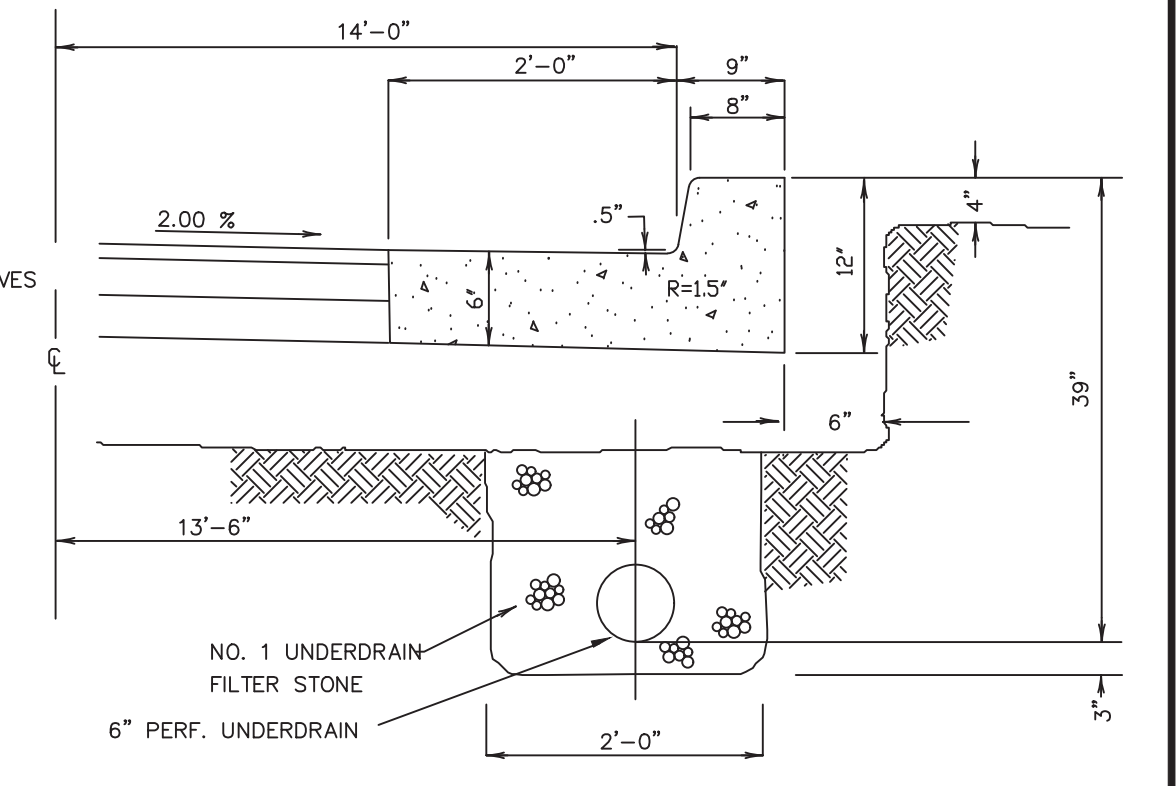
DRAWN BY : CB.	DATE : 2/05/04	JOB NO.	DRAWING NO.
APPROVED BY : GM.	SCALE : NONE	HOR. VER.	of



TYPICAL 60' WIDE R.O.W.

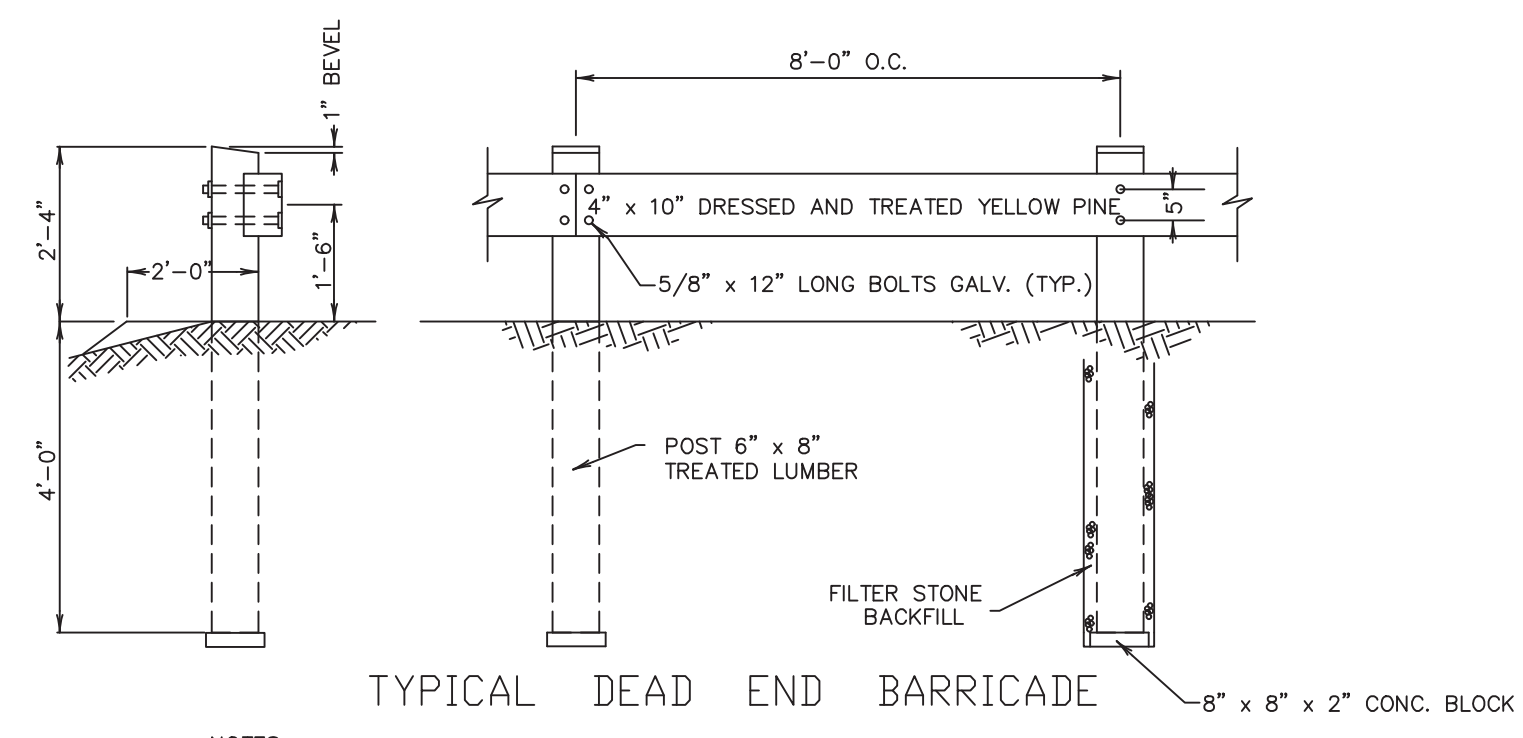


MINIMUM STANDARD FOR DRIVEWAY AND SIDEWALK REPLACEMENT



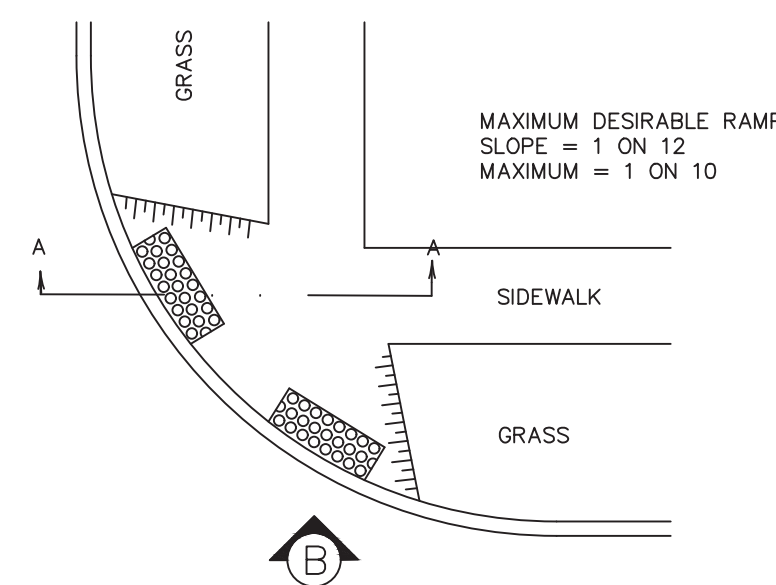
TYPE "BB" CURB & GUTTER

CUL - DE - SAC

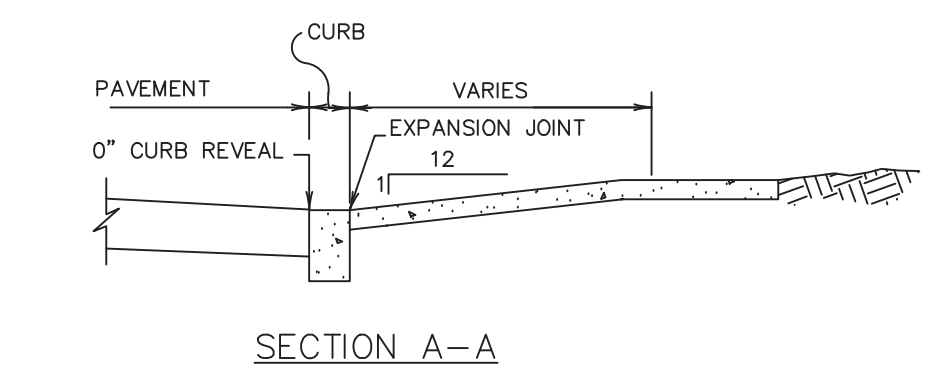


TYPICAL DEAD END BARRICADE

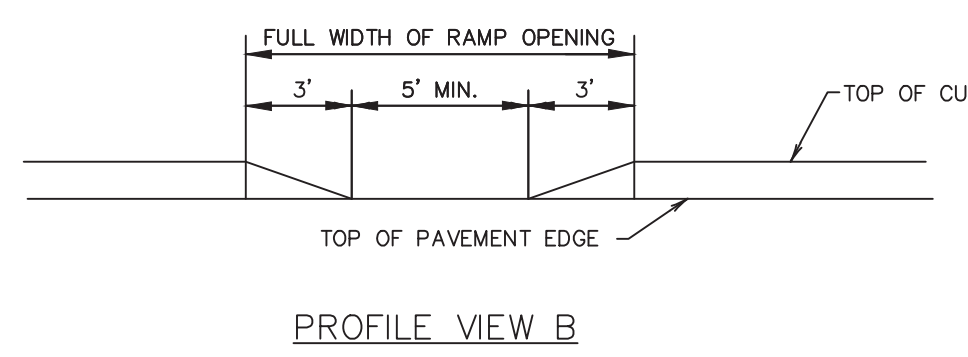
- NOTES:
 1. BARRICADE SHALL BE APPROXIMATELY 6 FEET BEHIND EDGE OF PAVEMENT.
 2. THE WOOD POSTS SHALL BE OF SOUND AND CLEAR SEASONED YELLOW PINE. ALL WOOD SHALL BE TREATED LUMBER.



PLAN VIEW

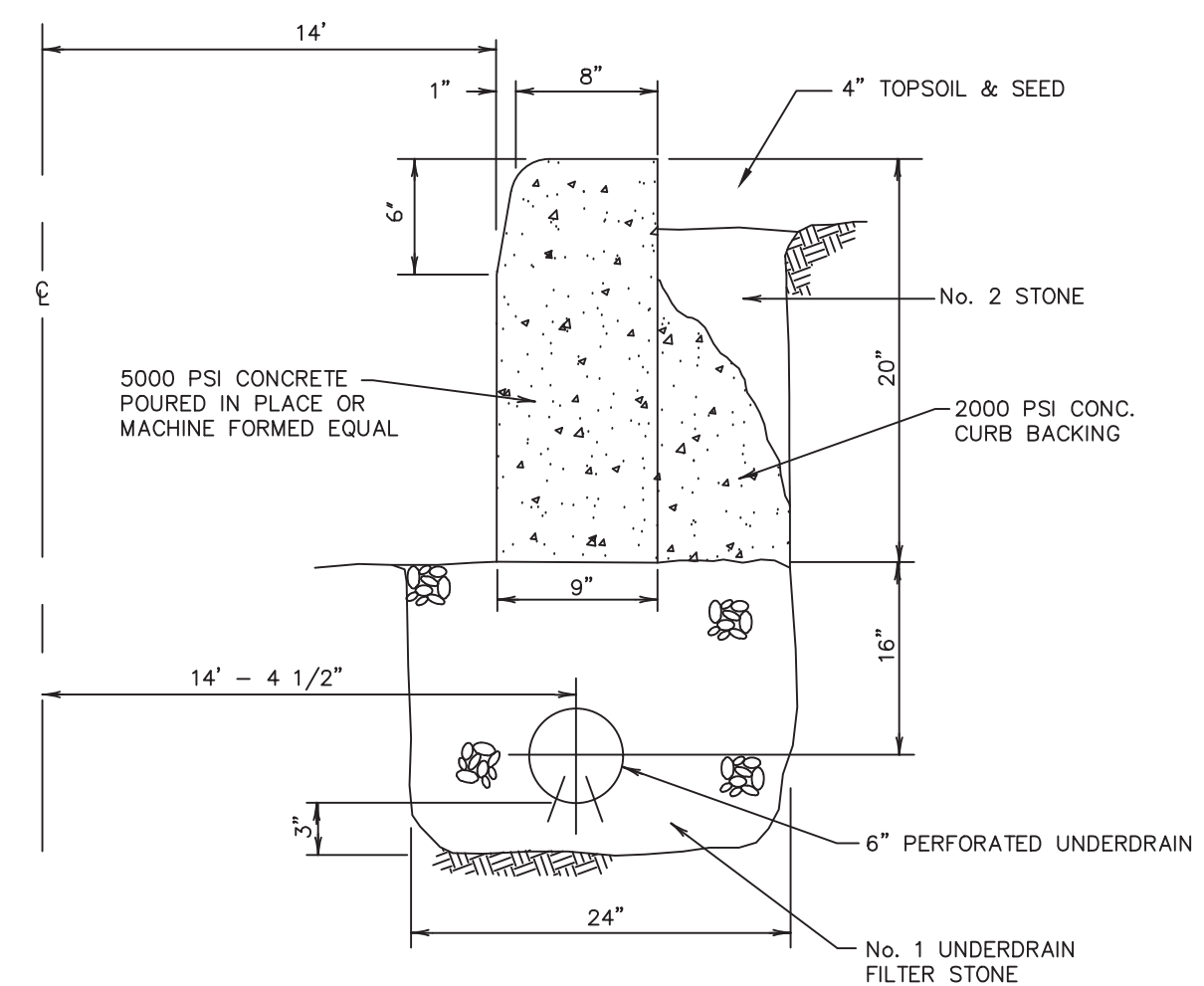


SECTION A-A

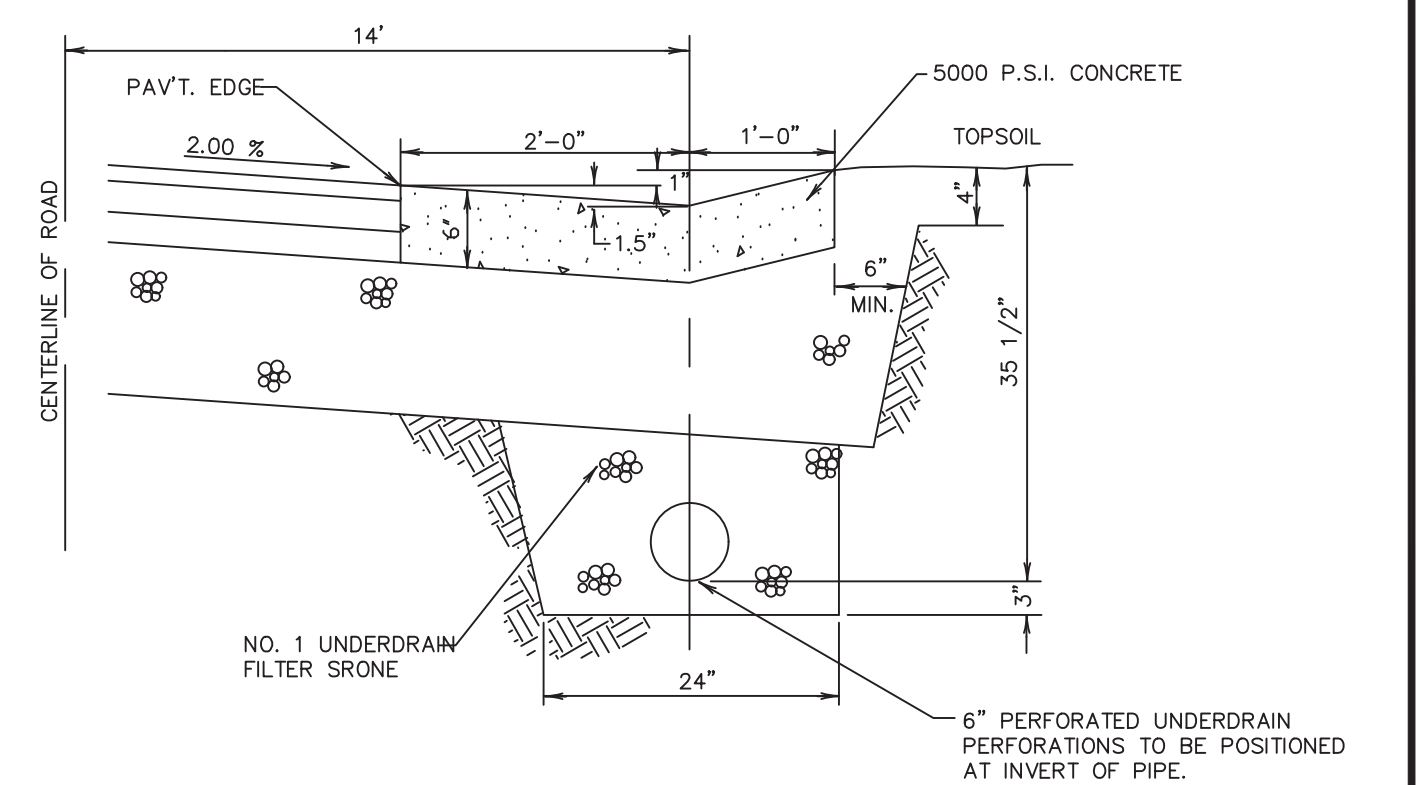


PROFILE VIEW B

SIDEWALK RAMP

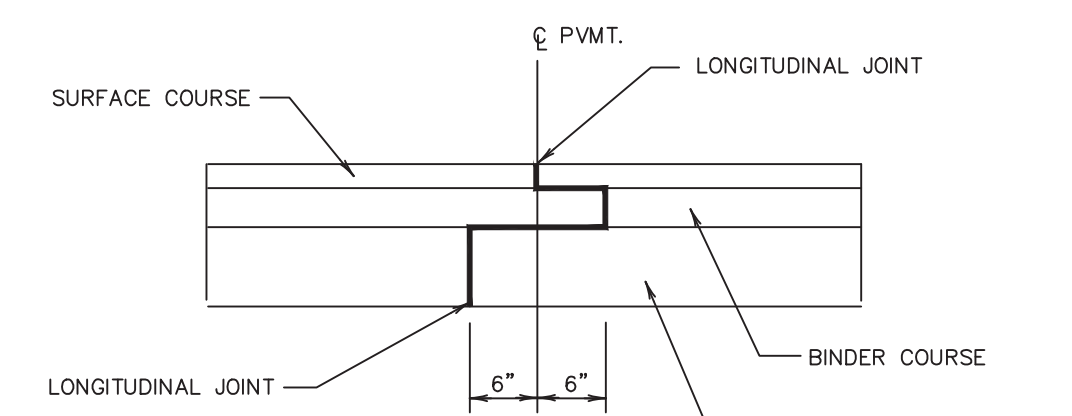


TYPE "BB" CURB

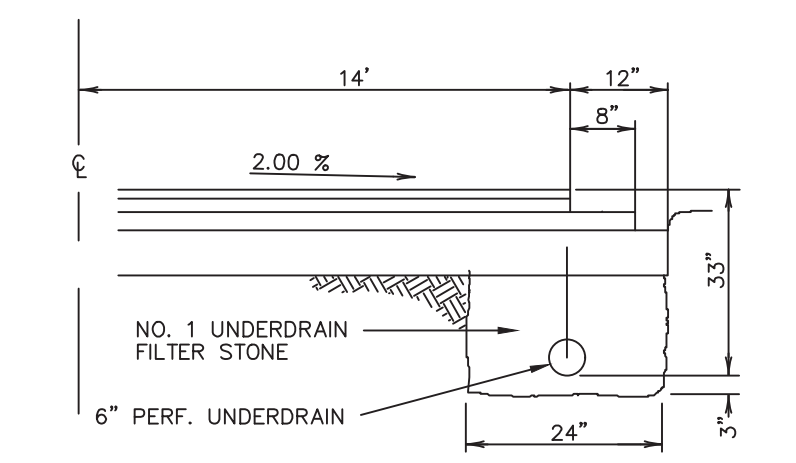


TYPE "BB" GUTTER

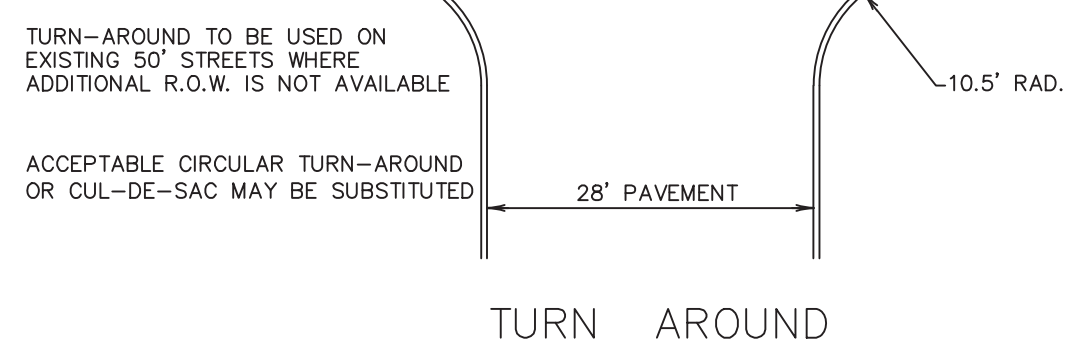
CURB AND GUTTER DETAILS



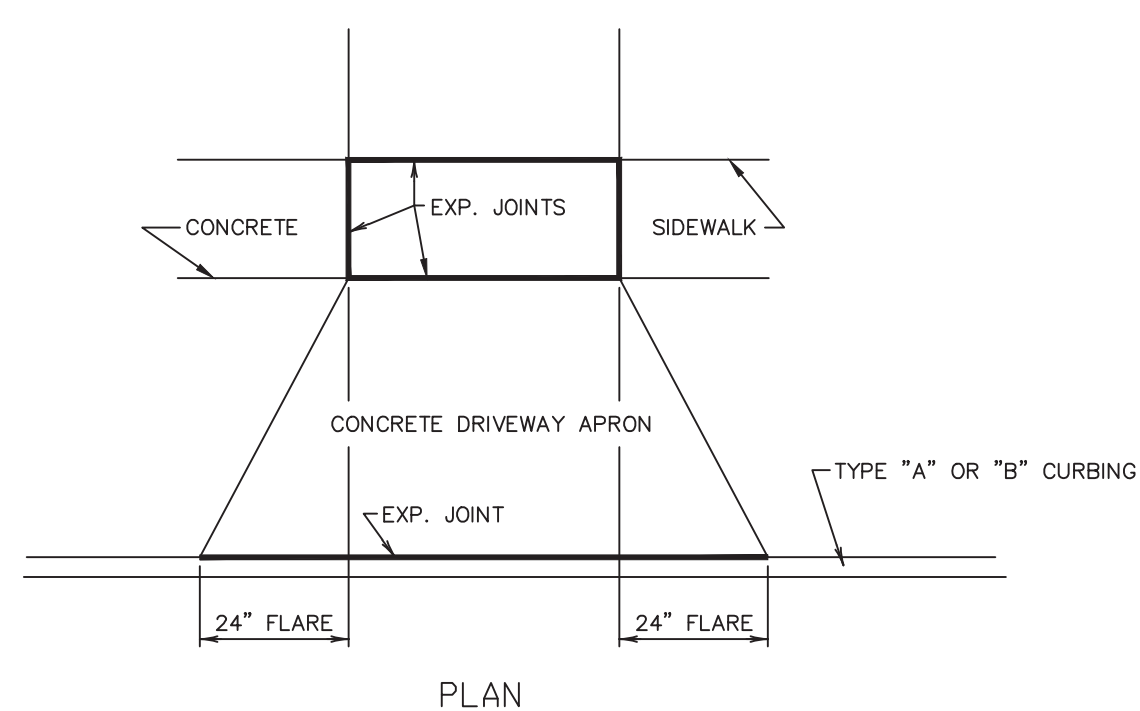
PAVEMENT OVERLAPPING DETAIL



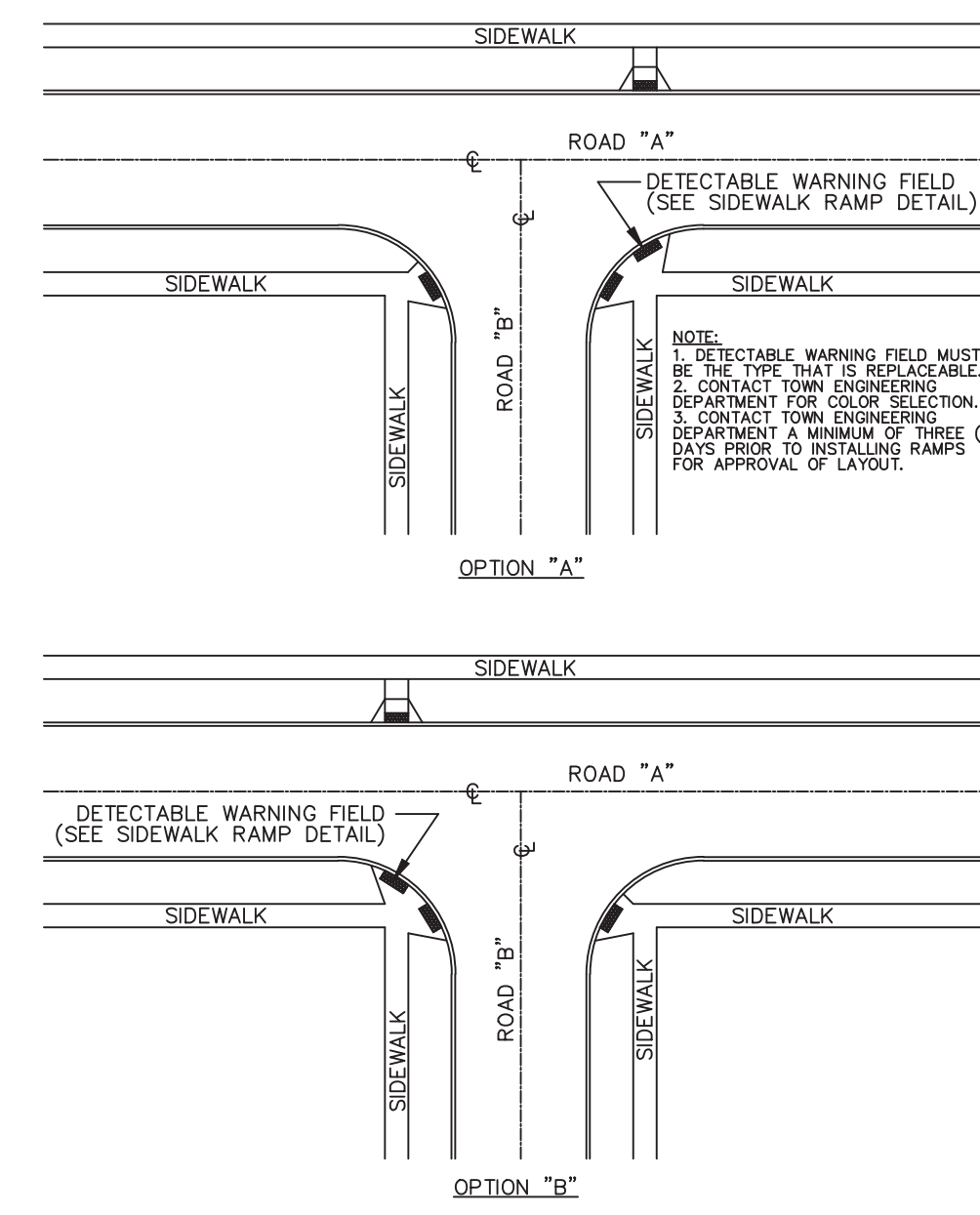
TYPICAL PAVEMENT SECTION



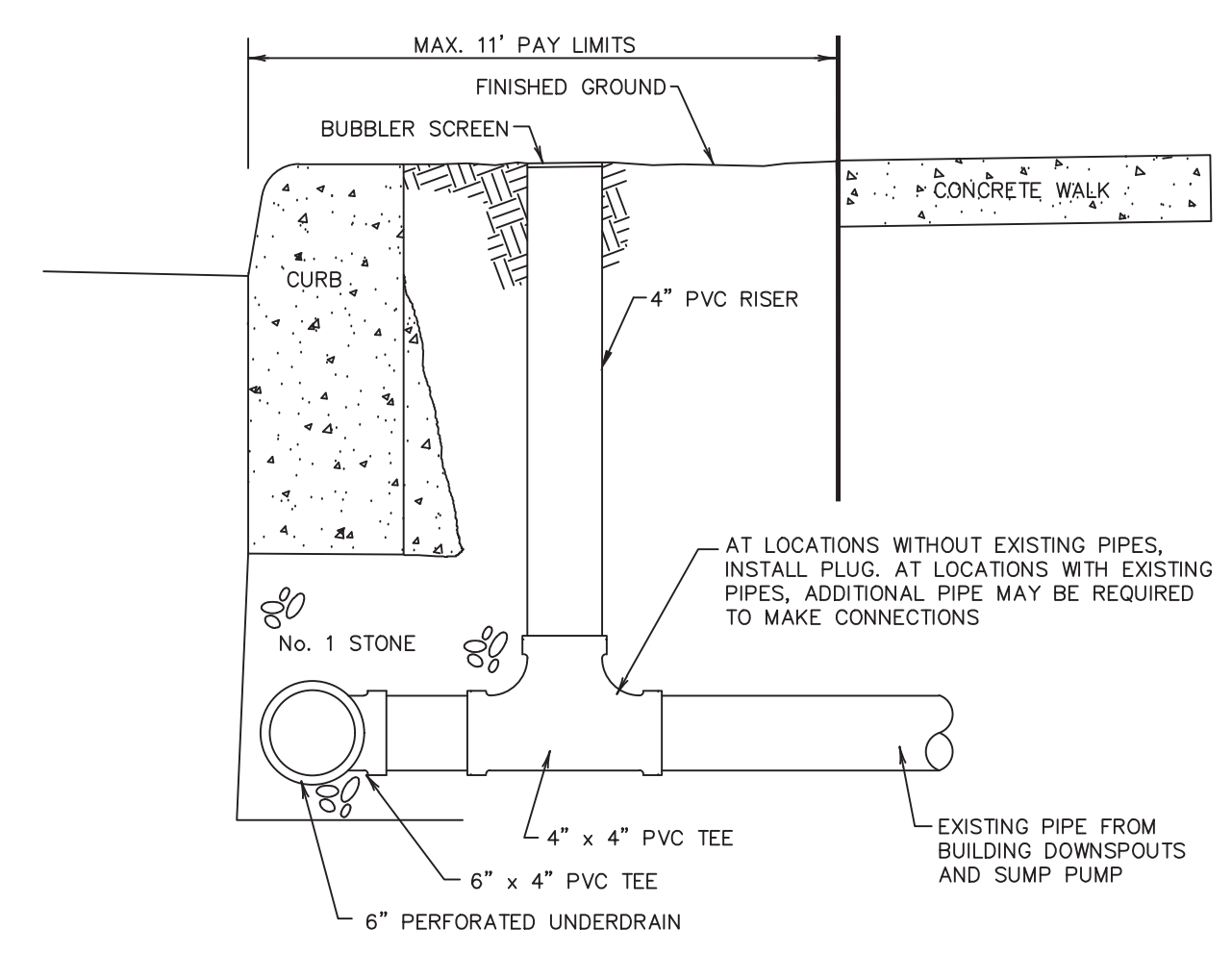
TURN AROUND



DRIVEWAY CURB CUTS



RAMP LAYOUT AT TEE INTERSECTIONS



YARD DRAIN

REVISIONS

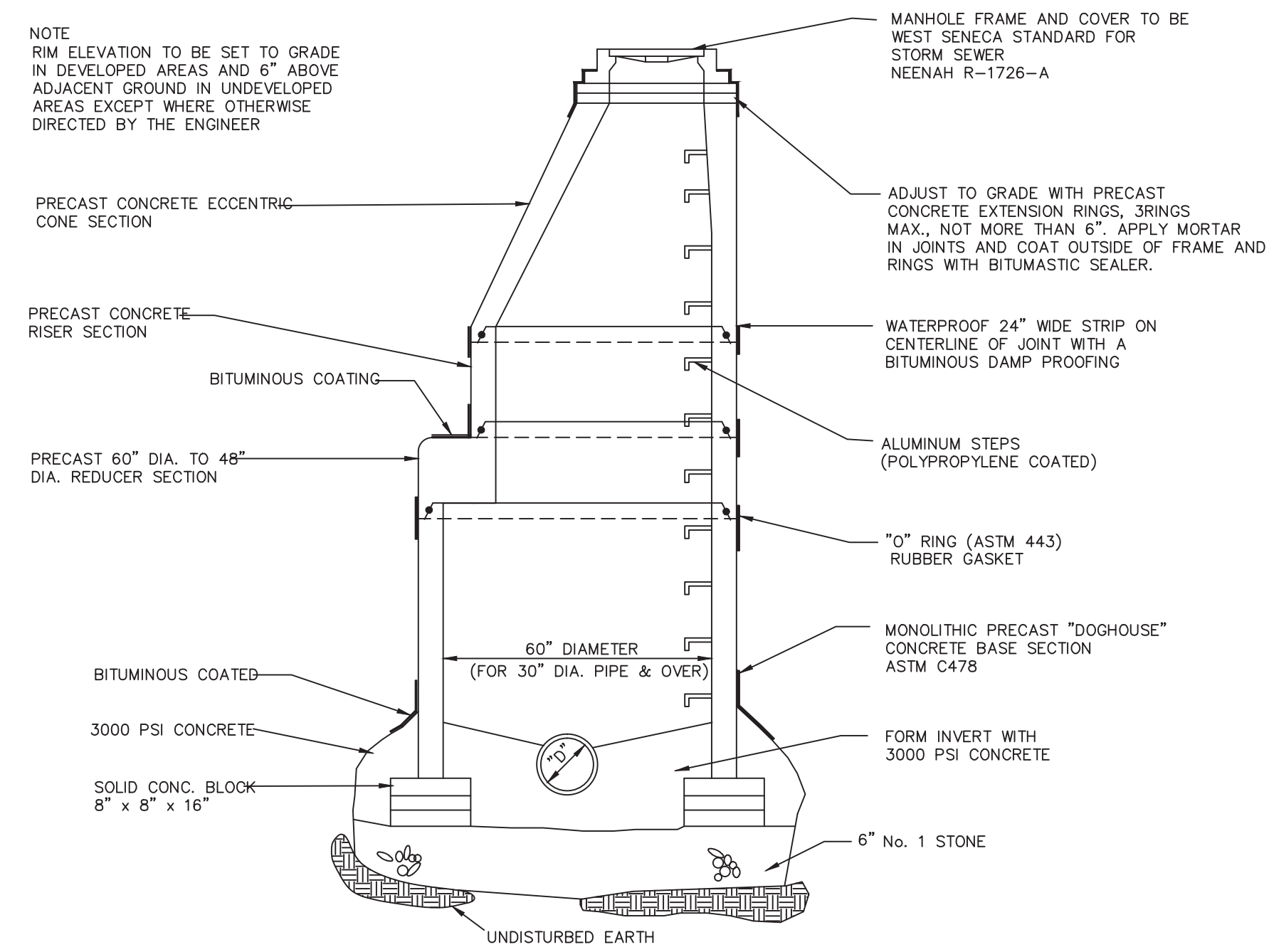
NO.	DATE	DESCRIPTION	BY
9			
8	7/8/19	REVISED CONC. TO 5000 PSI	RP
7	6/8/17	SIDEWALK RAMP	RP
6	3/21/16	YARD DRAIN PAY LIMITS	RP
5	1/18/12	SIDEWALK RAMP	DS
4	4/11	ADDED DETECTABLE WARNING SURFACE	RP
3	4/27/04	PAVEMENT GRADE	DS
2	5/13/03	VARIOUS CHANGES	DS
1	4/1/02	TYPE "BB" CURB	DS

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 PHONE : 674-5600

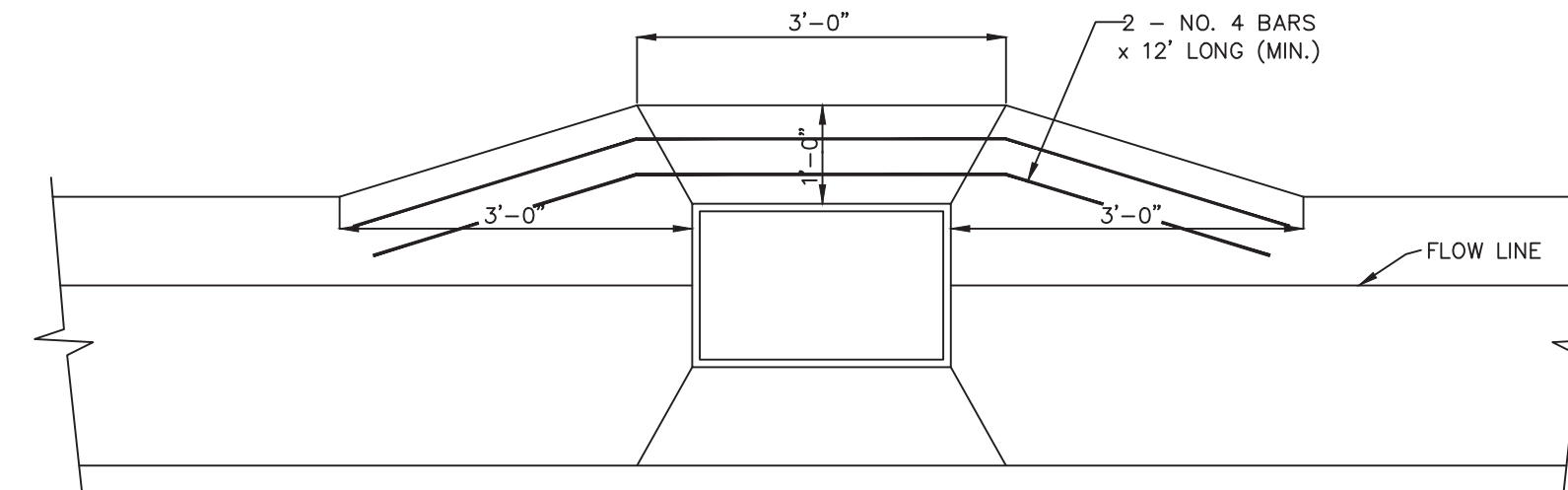
PAVING DETAILS

DRAWN BY :	DATE : 2/93	JOB NO.	DRAWING NO.
APPROVED BY : GM.	SCALE HOR. NONE VER.		of

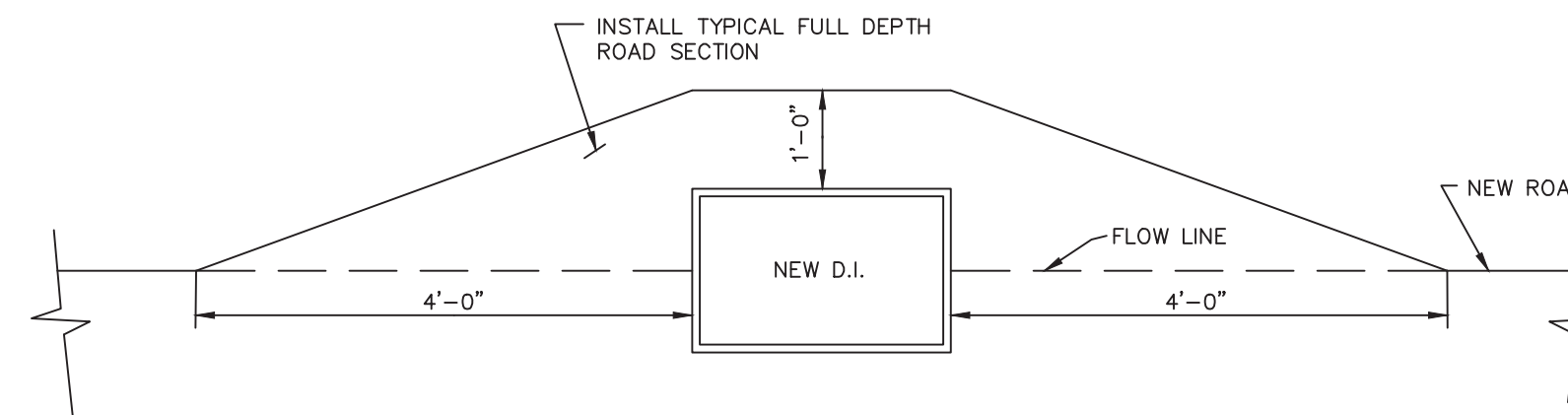
NOTE
RIM ELEVATION TO BE SET TO GRADE IN DEVELOPED AREAS AND 6" ABOVE ADJACENT GROUND IN UNDEVELOPED AREAS EXCEPT WHERE OTHERWISE DIRECTED BY THE ENGINEER



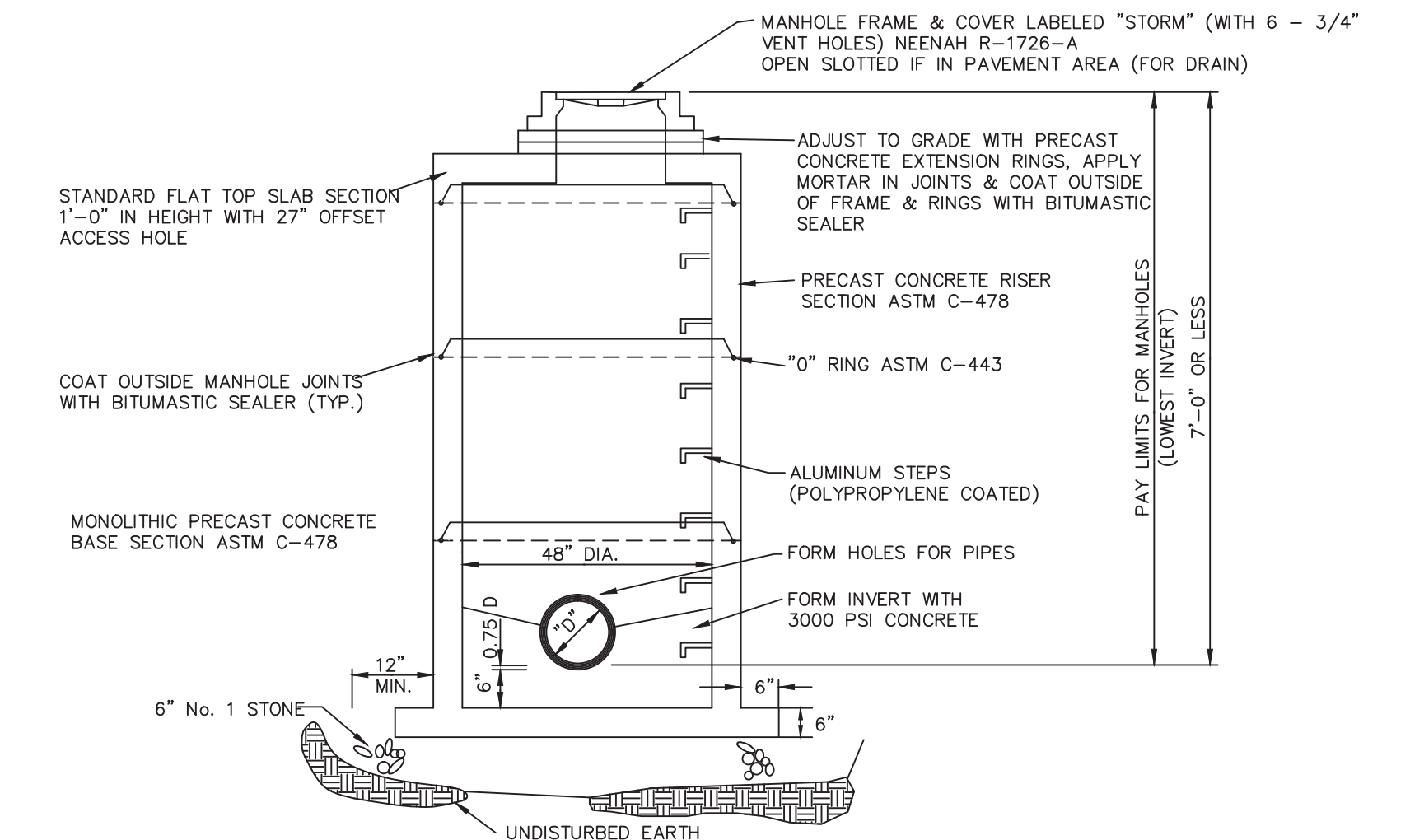
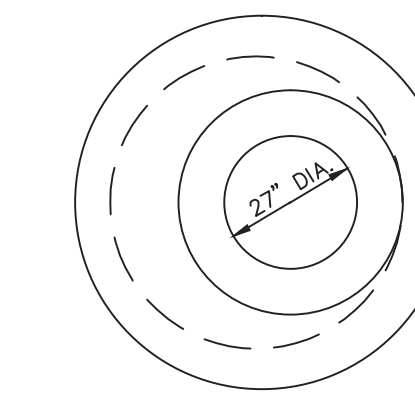
PRECAST CONCRETE MANHOLE OVER EXISTING STORM SEWER



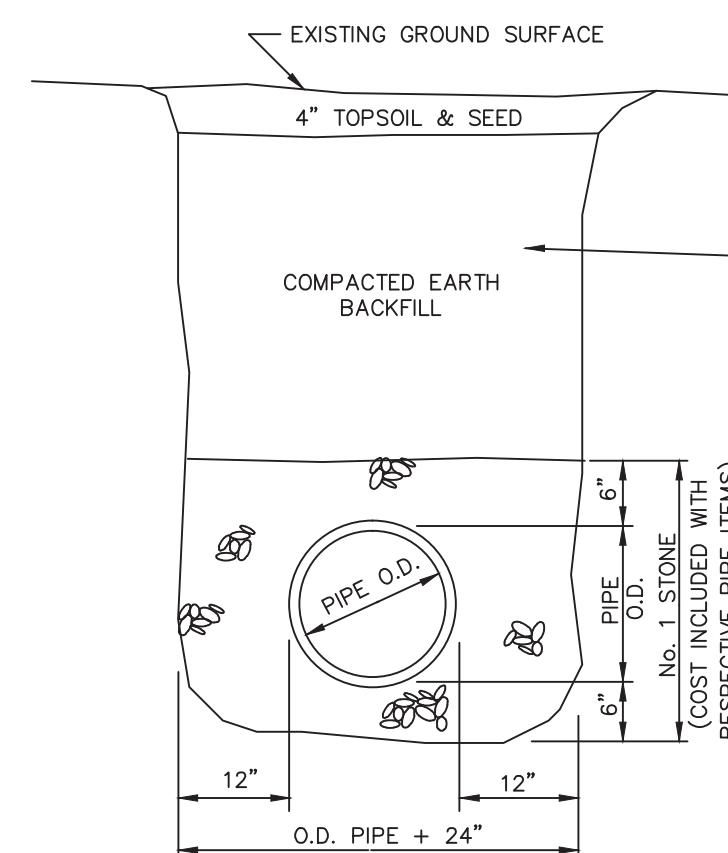
CONCRETE GUTTER AT D.I.'S



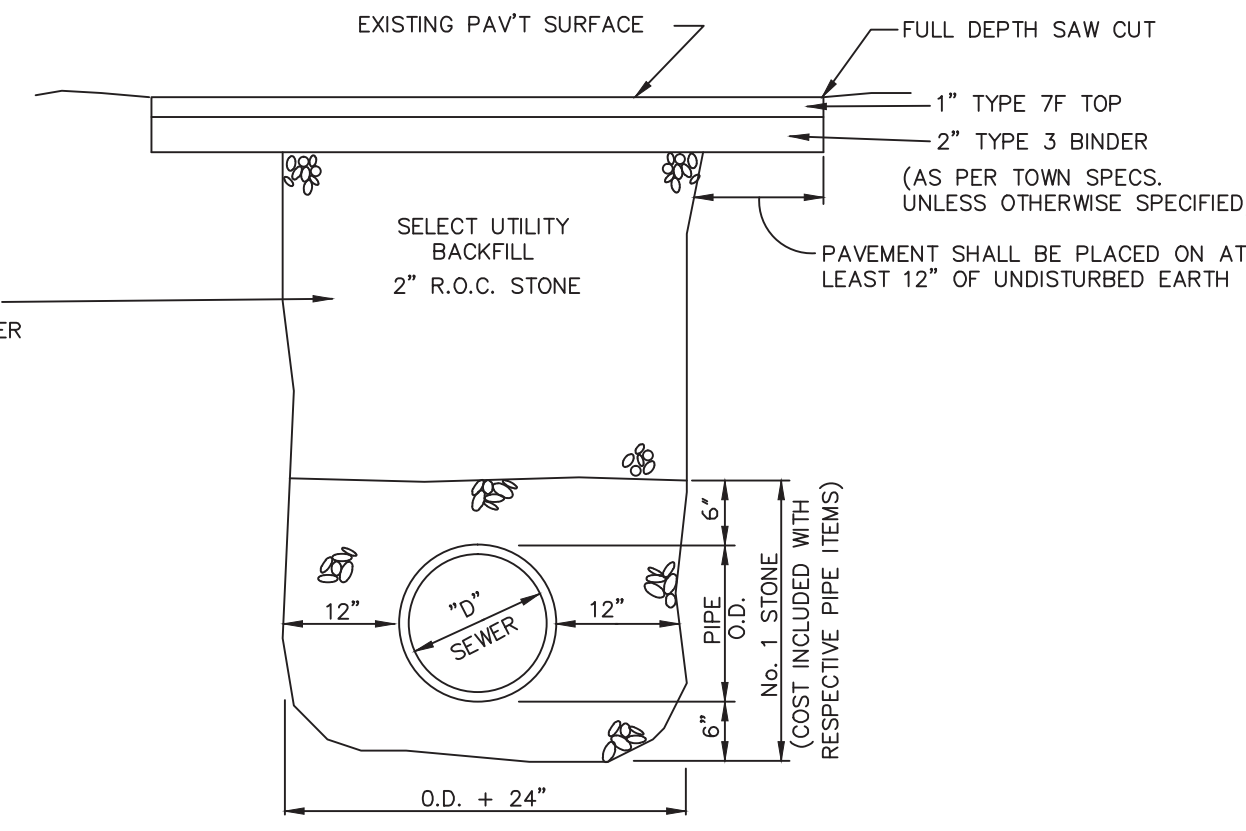
TYPICAL PAVEMENT SECTION AT D.I.'S



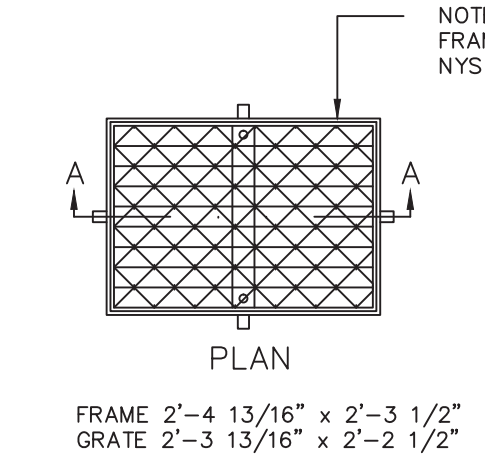
PRECAST CONCRETE MANHOLE (7'-0" OR LESS IN DEPTH)



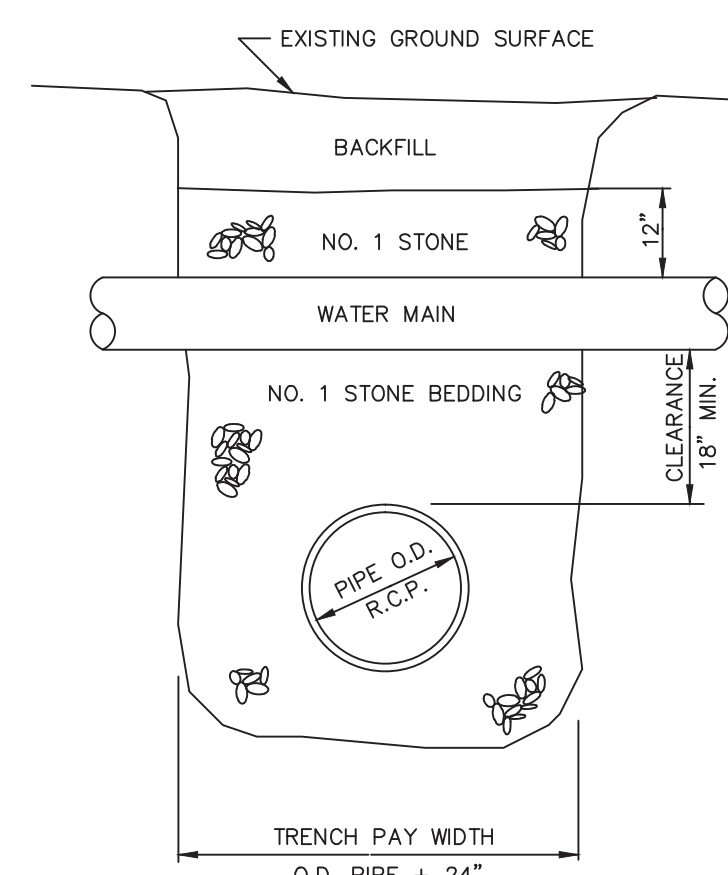
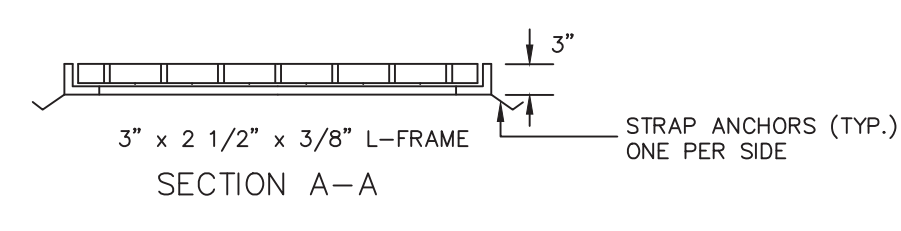
TYPICAL STORM SEWER TRENCH DETAIL



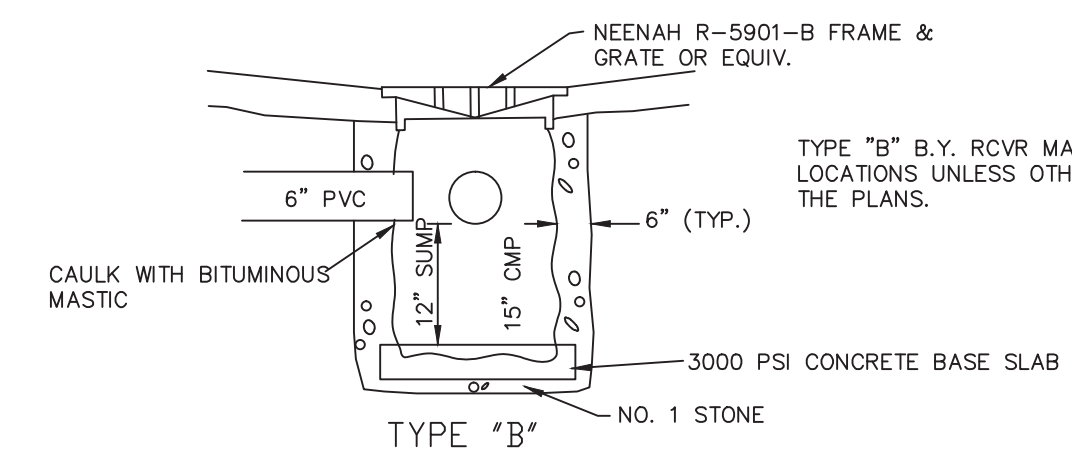
TRENCH DETAIL AT TOWN ROADS & OTHER PAVEMENT CROSSINGS



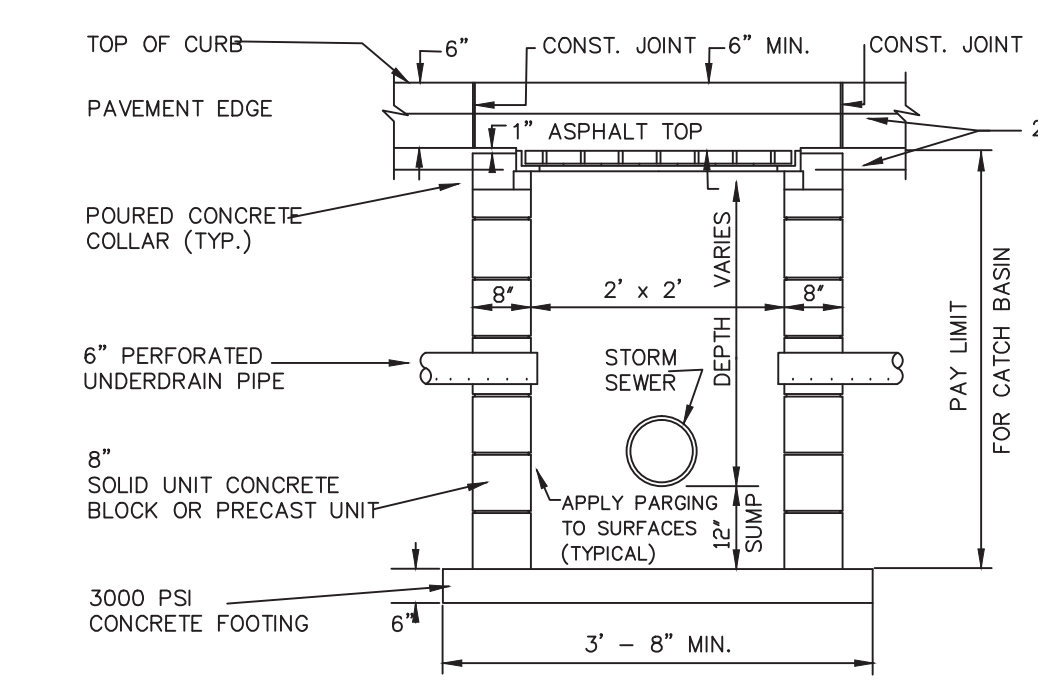
NOTE: FRAME AND GRATE SHALL MEET NYS DOT SIZE NO. 9



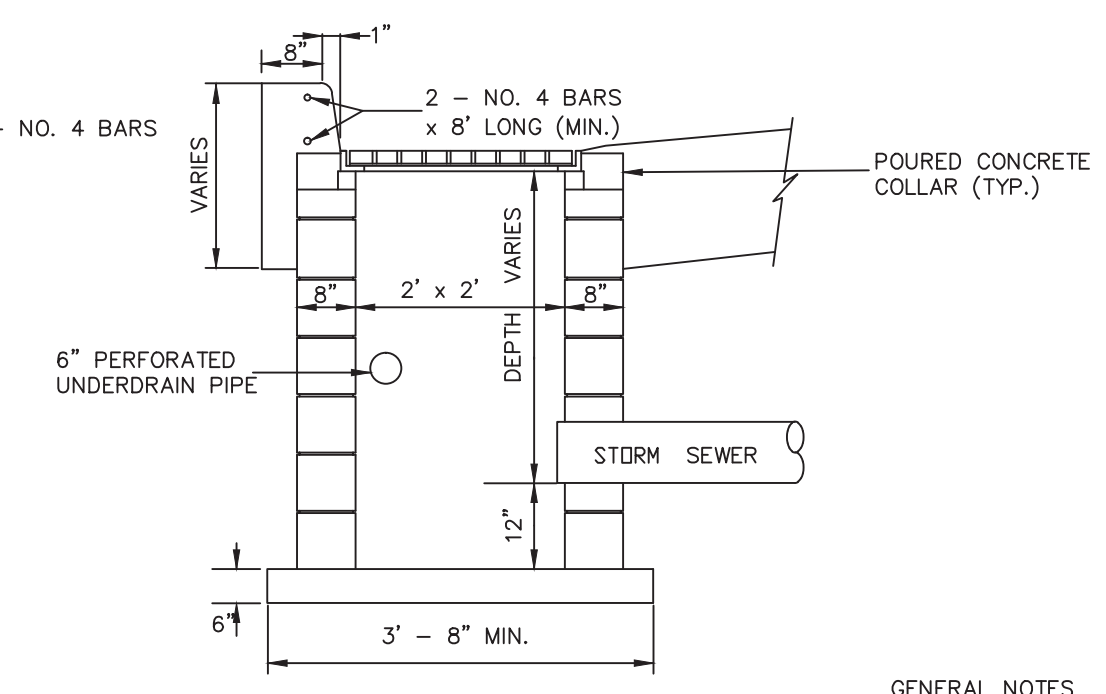
TRENCH DETAIL AT WATER MAIN CROSSING



BACK YARD RECEIVER (B.Y. RCVR) DETAILS



STANDARD CATCH BASIN



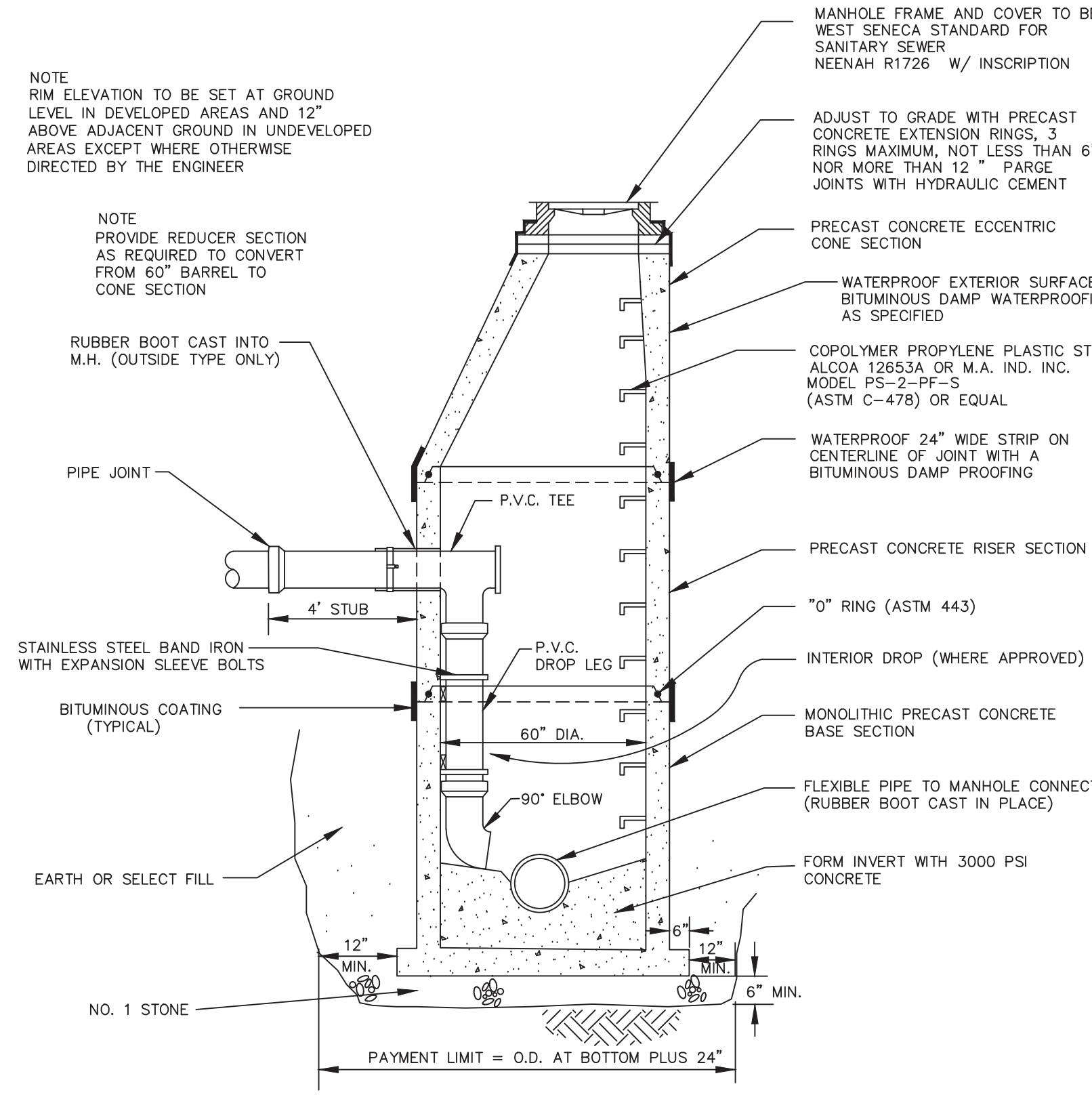
GENERAL NOTES
1. ALL EXCAVATIONS UNDER ANY UTILITY WILL BE BACKFILLED WITH NO. 1 STONE TO A POINT AT LEAST 6" OVER THE TOP OF THE UTILITY.
2. FOR ALL ROAD CROSSINGS USING JACKING & BORING METHOD, SEE SANITARY SEWER DETAIL SHEET

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	5/15/03	VARIOUS CHANGES	DS

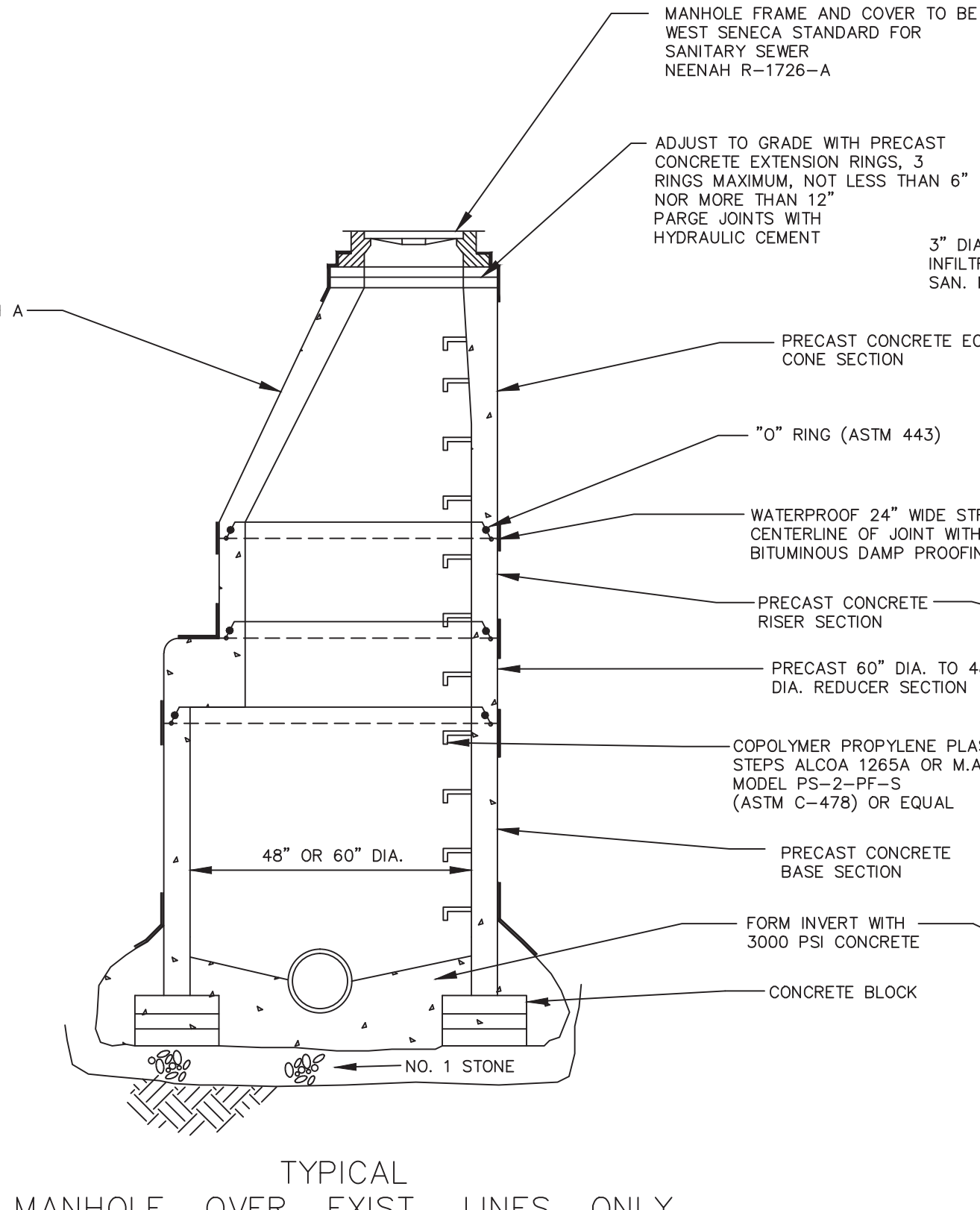
WEST SENECA ENGINEERING DEPARTMENT
1250 UNION ROAD, WEST SENECA, N.Y. 14224
PHONE : 674-5600

STORM SEWER DETAILS

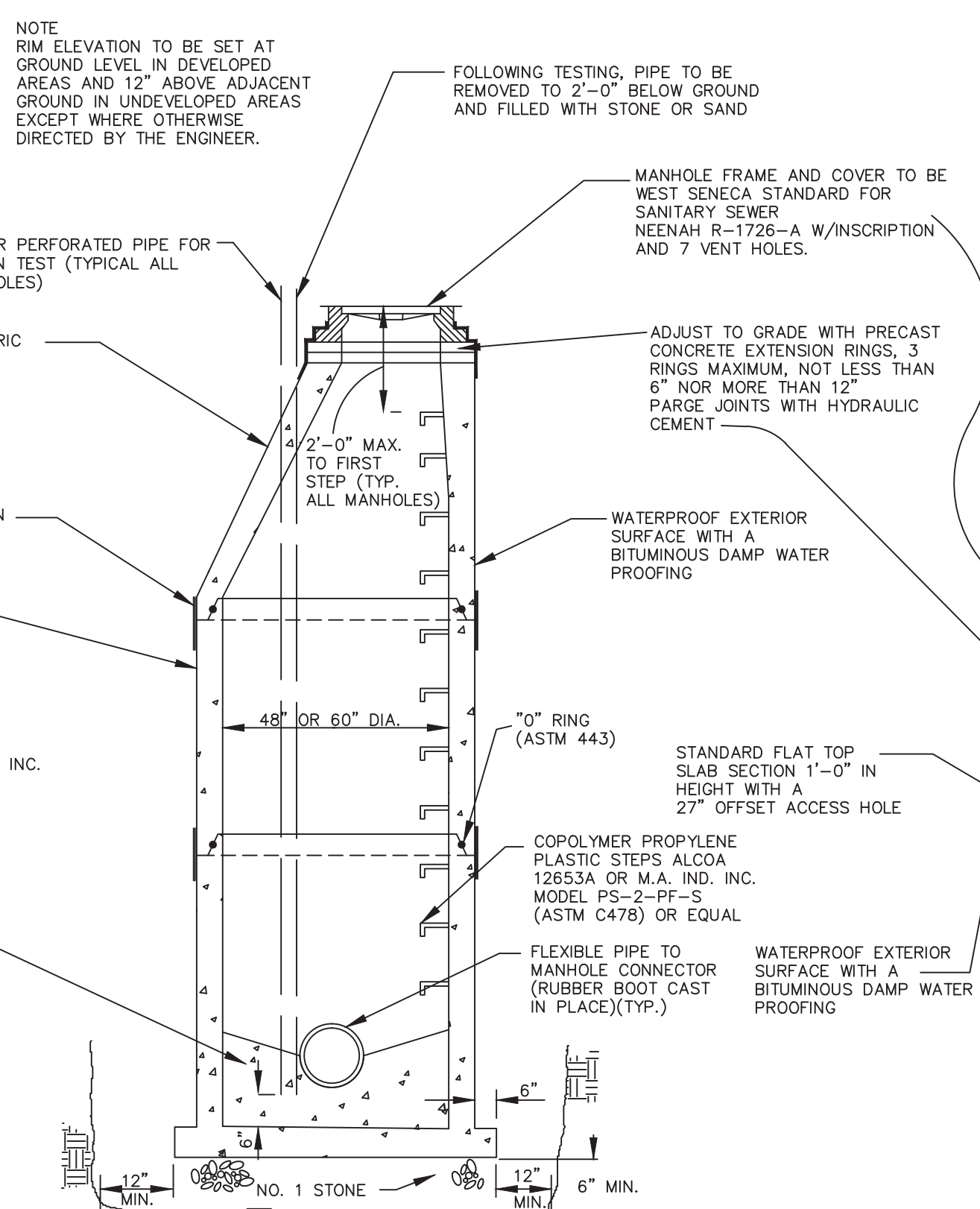
DRAWN BY : DATE : 5/97 JOB NO. DRAWING NO.
APPROVED BY : GM. SCALE HOR. NONE VER. OF



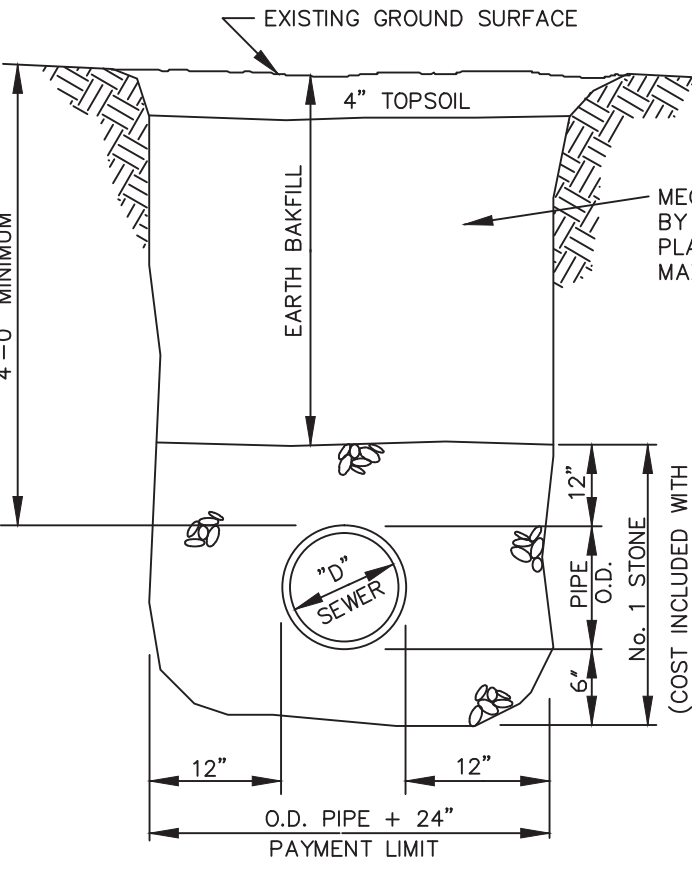
TYPICAL DROP MANHOLE



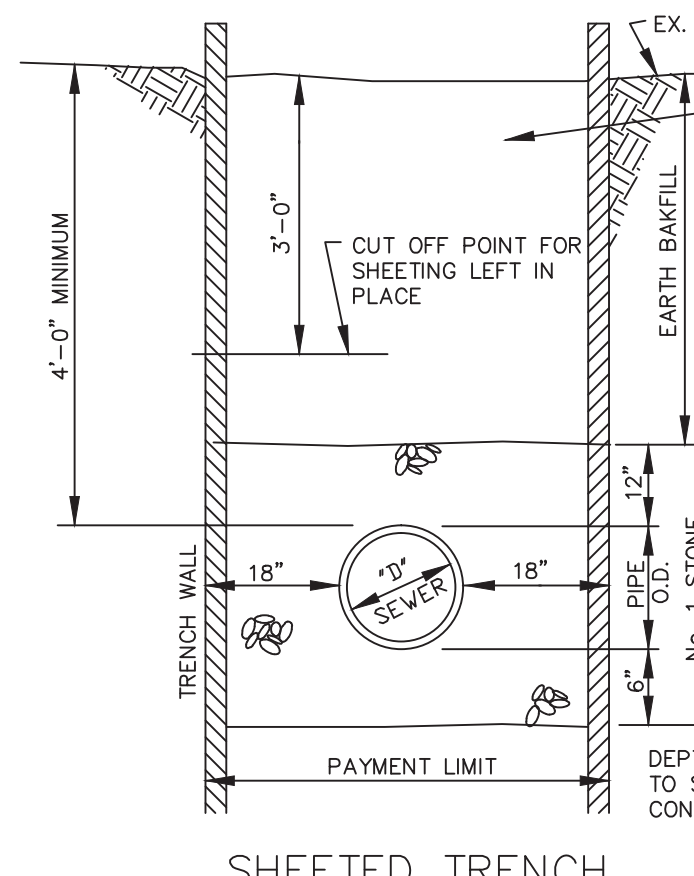
TYPICAL MANHOLE OVER EXIST. LINES ONLY
60" DIA. FOR 21" OR OVER PIPE



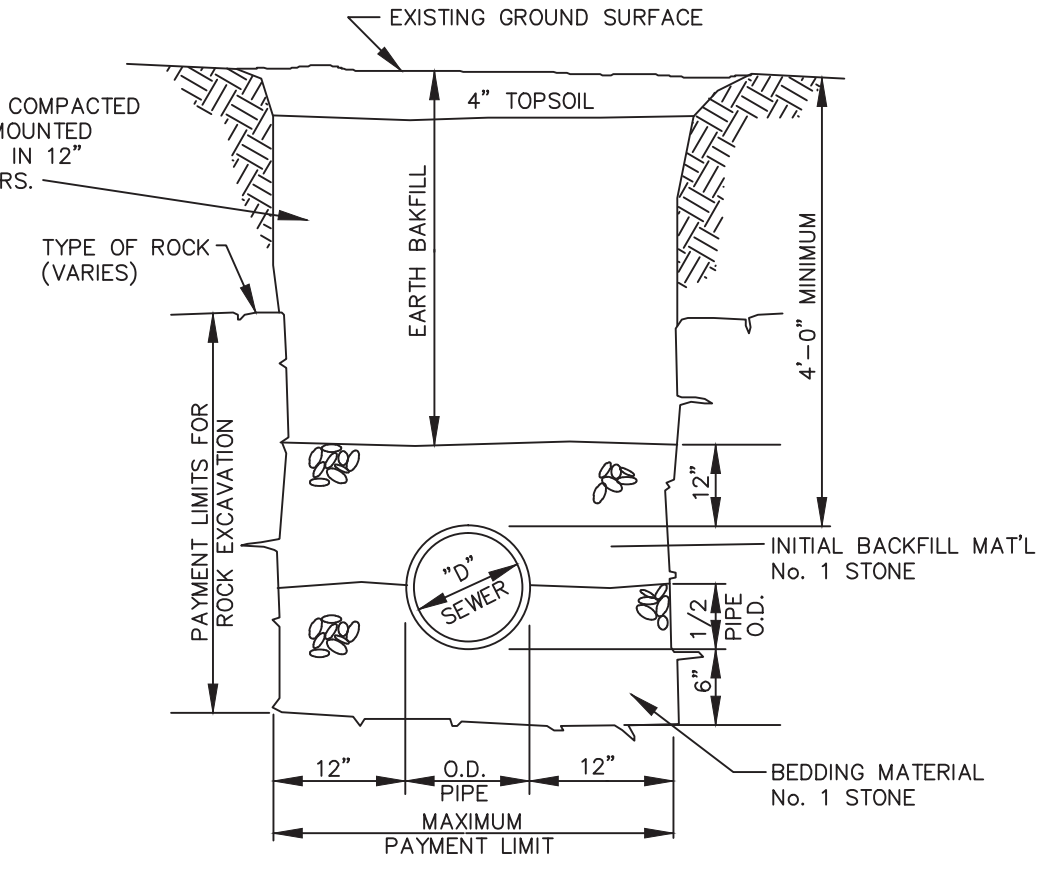
TYPICAL MANHOLE - NEW CONSTRUCTION
48" OR 60" DIAMETER



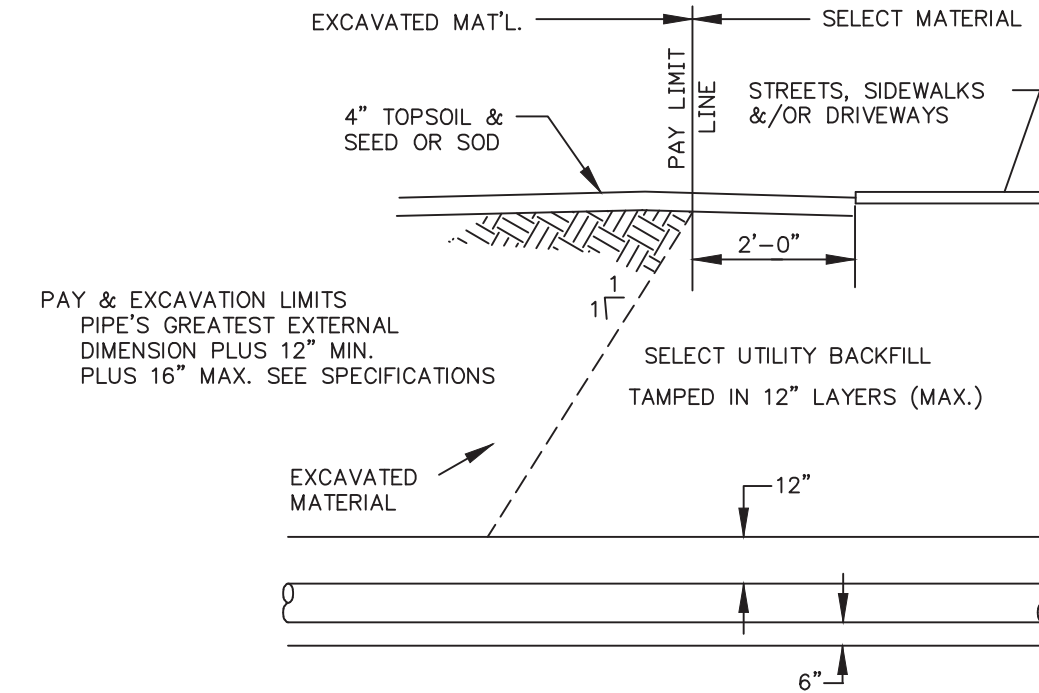
TYPICAL EARTH TRENCH



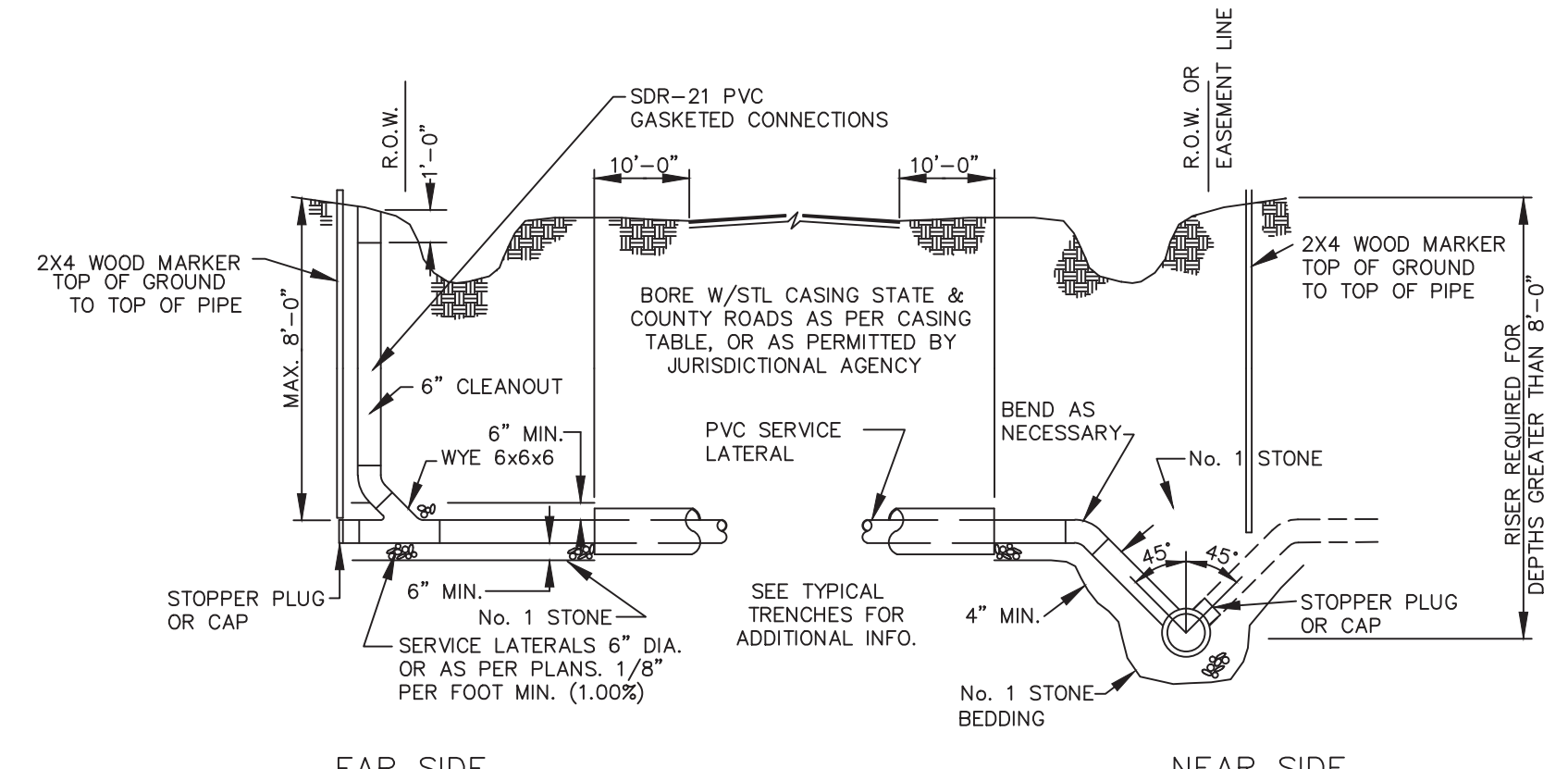
SHEETED TRENCH



ROCK TRENCH

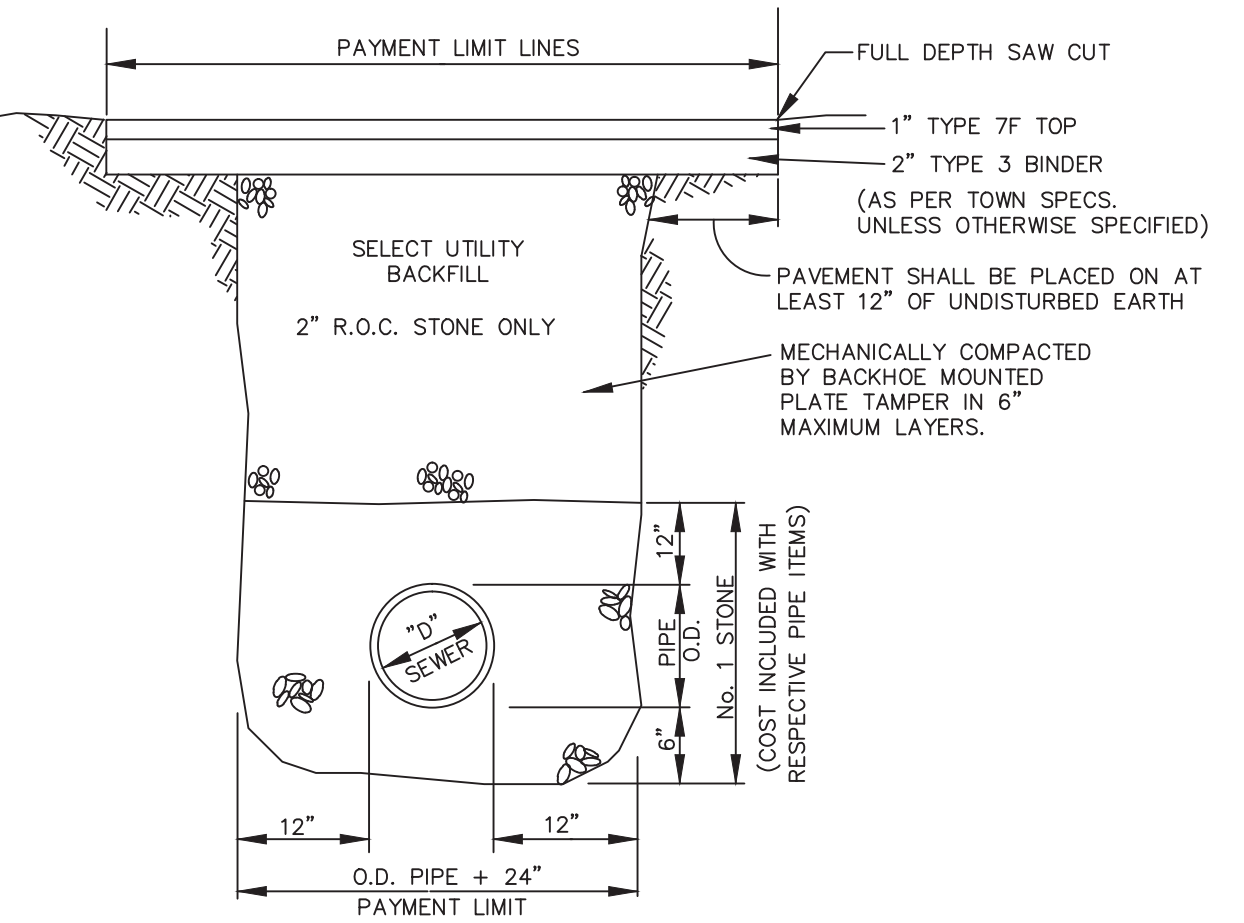


PIPE PAY LIMITS

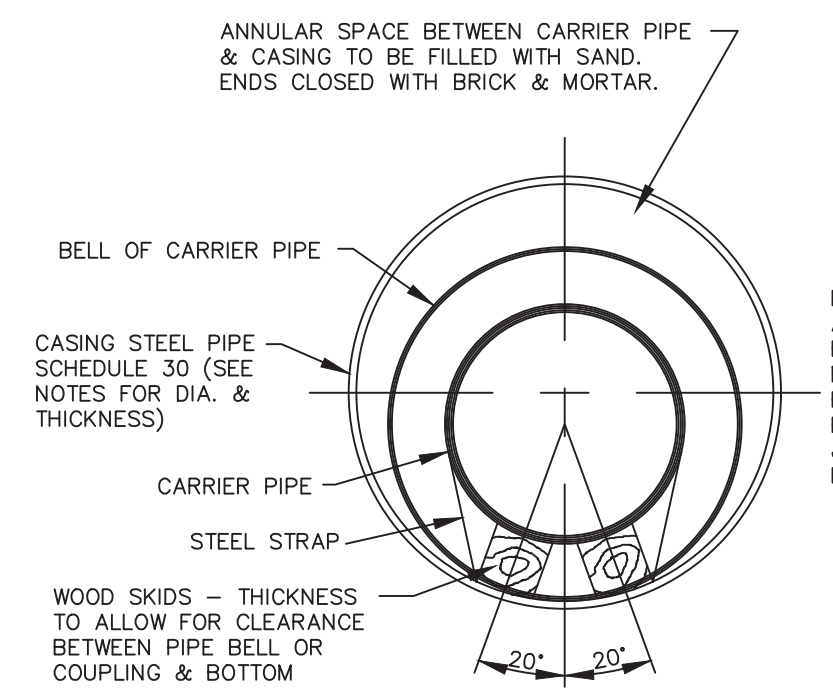


TYPICAL SERVICES

TYPICAL TRENCH DETAILS IN UNPAVED AND UNTRAVELED AREAS



TYPICAL TRENCH DETAIL TOWN ROAD CROSSING



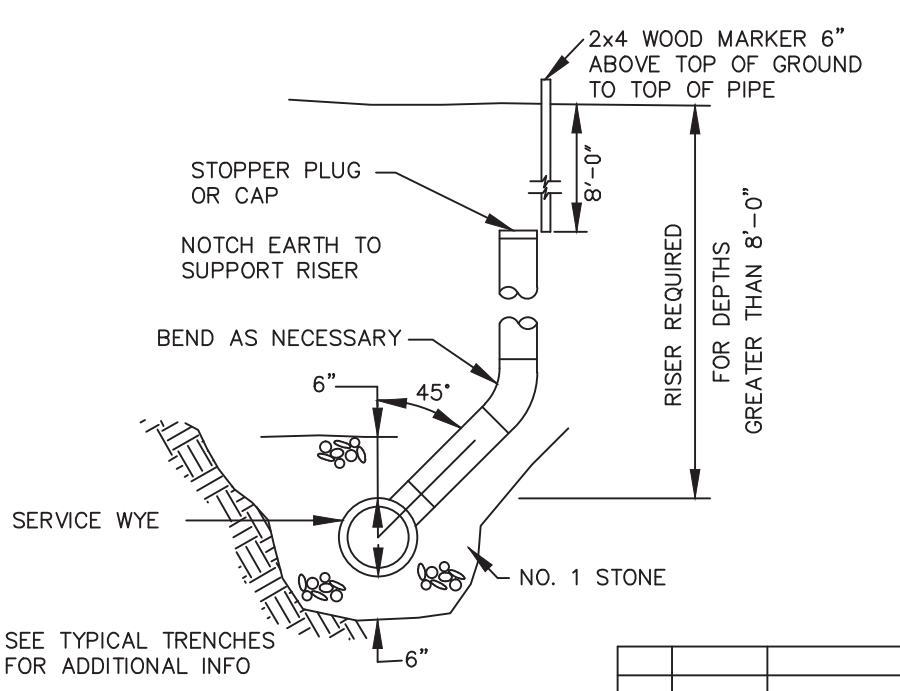
ROAD CROSSING JACKING AND BORING METHOD
6" - 8" DIA. TO 24" DIA. CARRIER PIPE

NOTES:

- SCHEDULE FOR DIAMETER & THICKNESS OF CASING PIPE

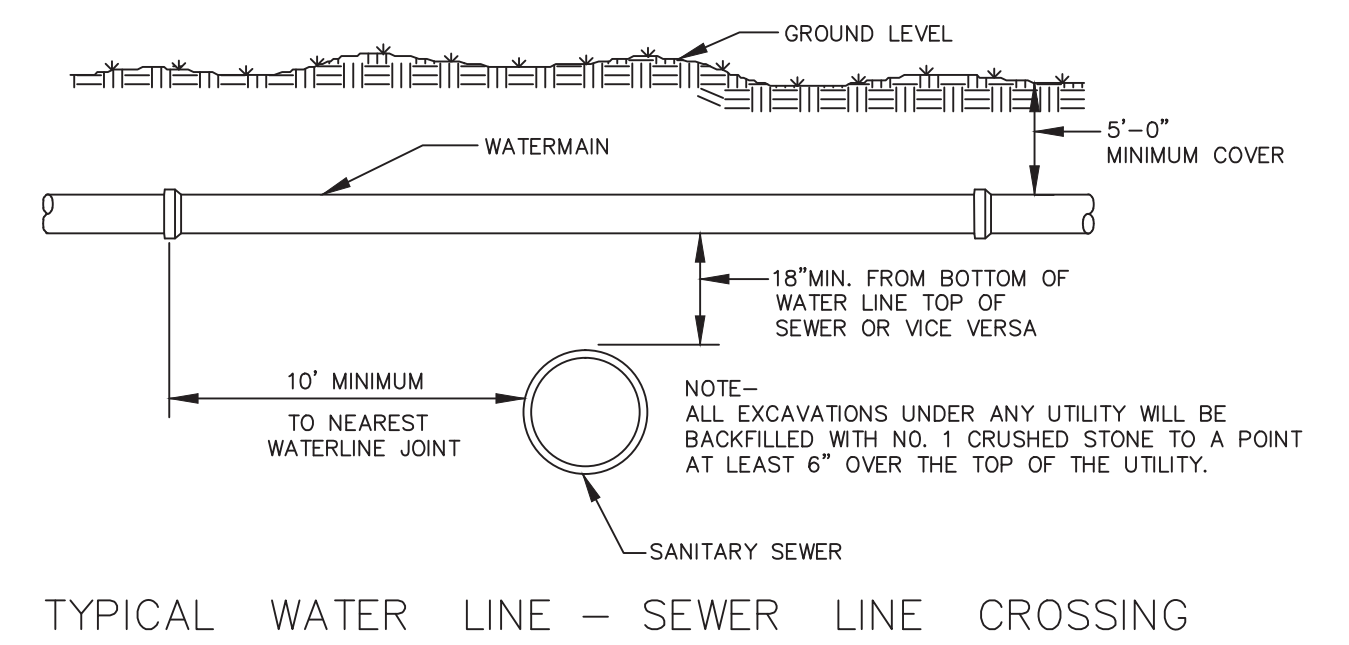
CARRIER PIPE DIAMETER	CASING PIPE DIAMETER	CASING PIPE THICKNESS
6"-8"	18"	0.375
10"	20"	0.375
12"	24"	0.375
15"	27"	0.375
18"	30"	0.375
21"	36"	0.469
24"	42"	0.469

- CASING TO BE EXTENDED TEN (10) FEET PAST THE EDGES OF PAVING MINIMUM PER HIGHWAY DEPT. STANDARDS.



TYPICAL RISER

NO.	DATE	DESCRIPTION	BY
2014		VARIOUS CHANGES	
2014		ADDED NOTES	

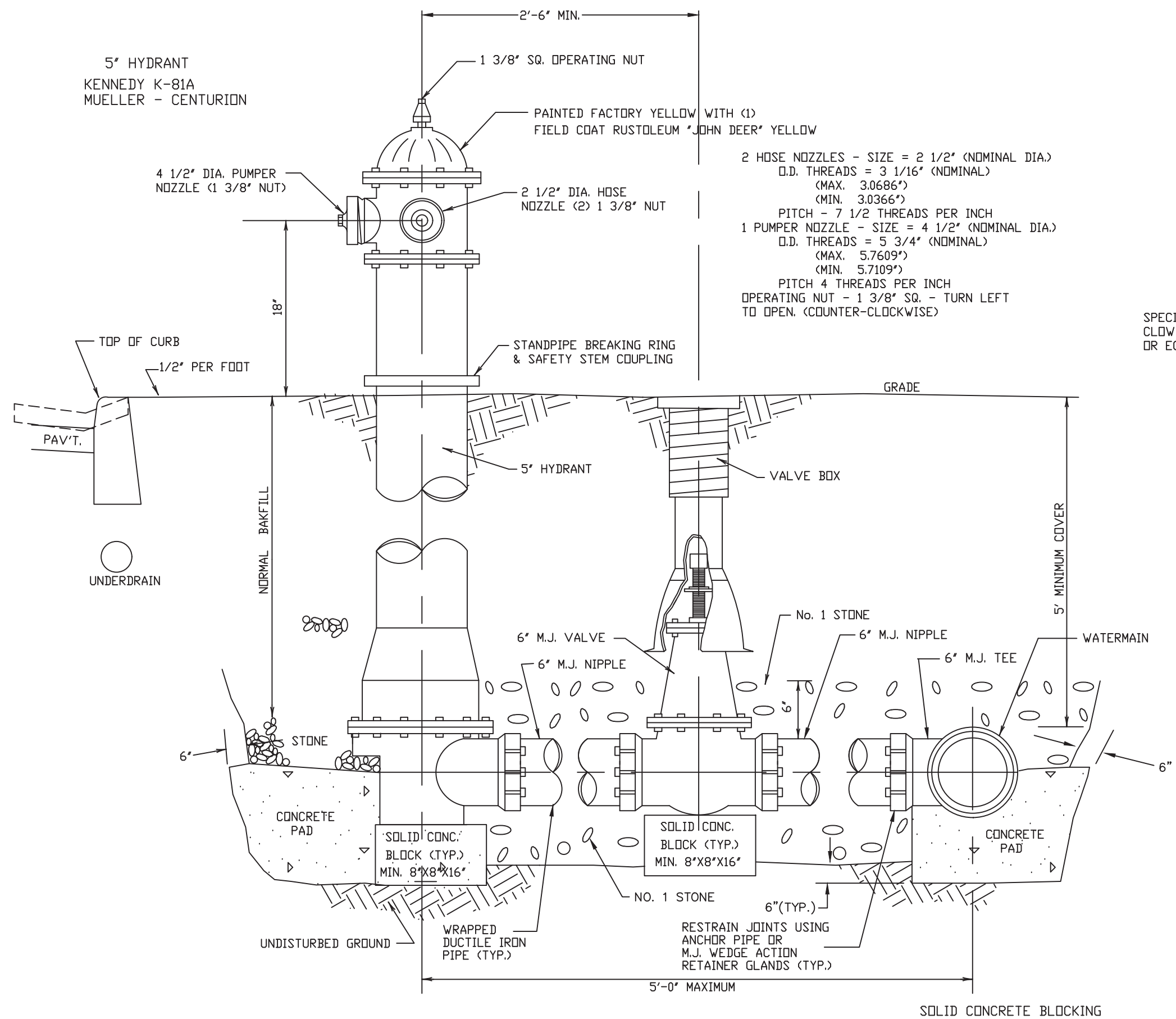


TYPICAL WATER LINE - SEWER LINE CROSSING

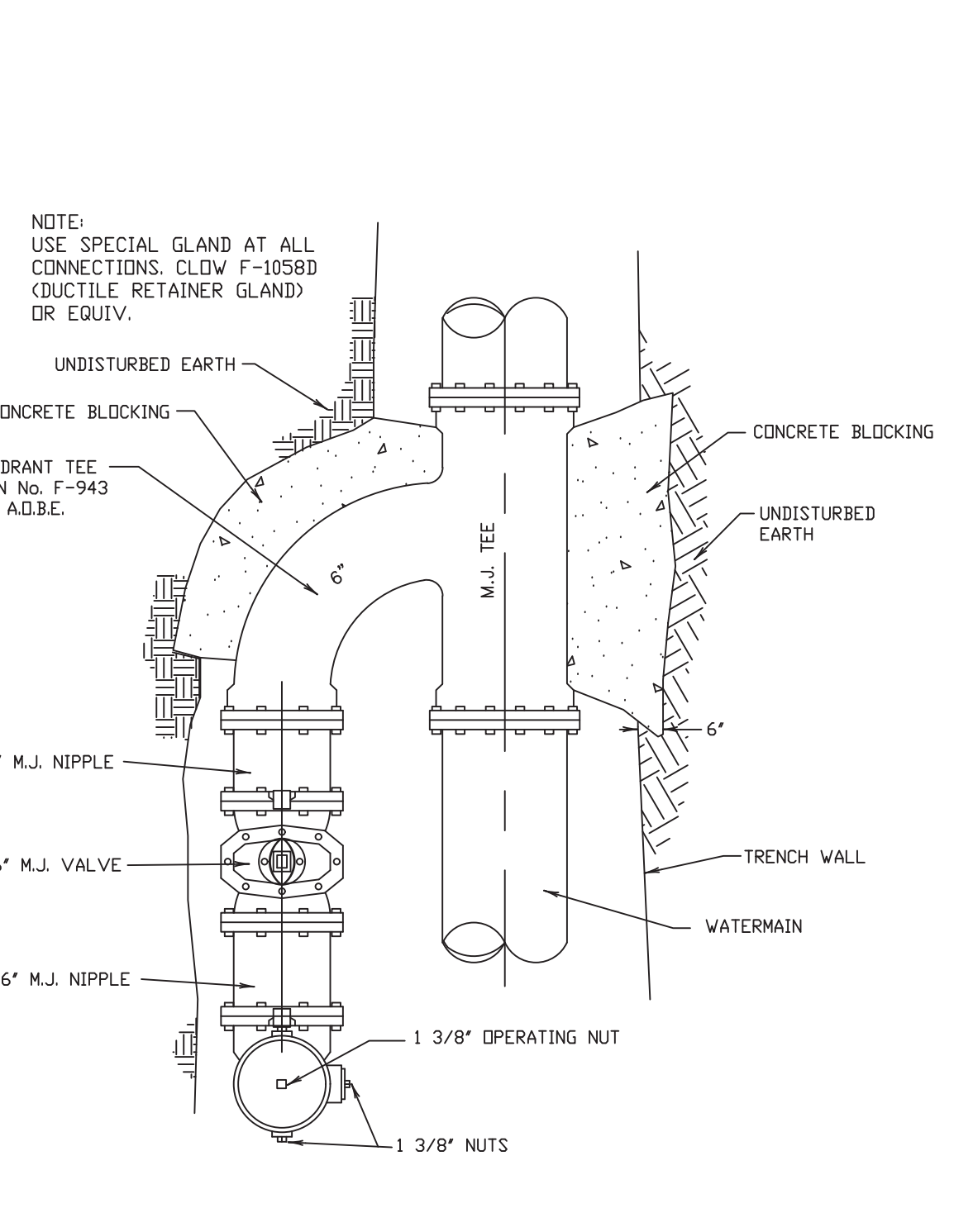
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1250 UNION ROAD, WEST SENECA, N.Y. 14224
PHONE : 674-5600

SANITARY SEWER DETAILS

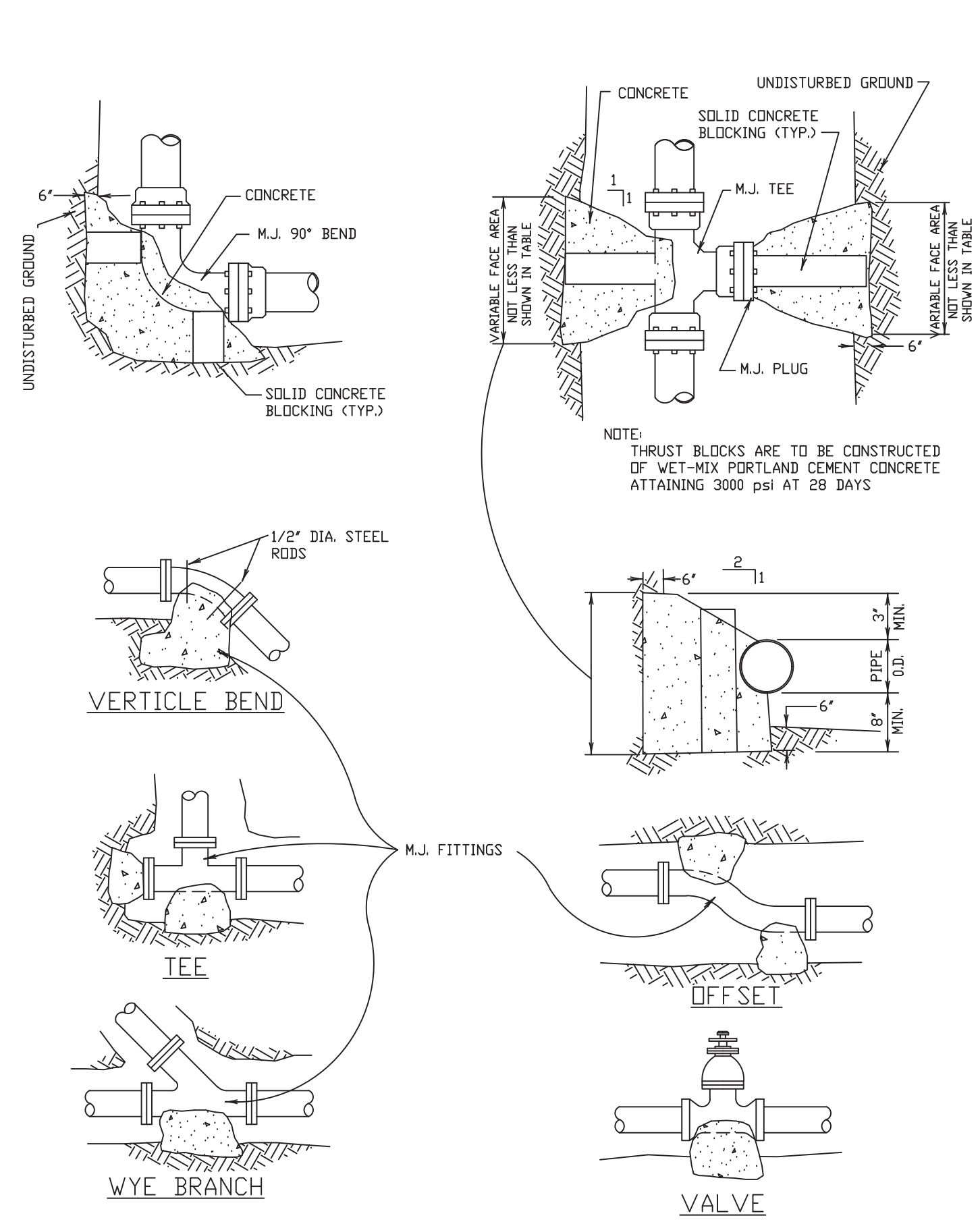
DRAWN BY :	DATE : 2/93	JOB NO.	DRAWING NO.
APPROVED BY : GM.	SCALE : HOR. NONE VER.		Of



TYPICAL HYDRANT DETAIL



SPECIAL HYDRANT INSTALLATION A.O.B.E.



TYPICAL THRUST BLOCKING DETAILS FOR TEES, PLUGS, VALVES AND BENDS

GENERAL NOTES

DUCTILE IRON PIPE SHALL CONFORM TO A.W.W.A. C 151 (ANSI-B1) & SHALL BE CLASS 52 INSTALLED IN ACCORDANCE WITH A.W.W.A. C 600-82 & WRAPPED IN POLYETHYLENE.

POLYETHYLENE ENCASEMENT SHALL CONFORM WITH THE APPLICABLE REQUIREMENTS OF THE AMERICAN NATIONAL STANDARD FOR POLYETHYLENE ENCASEMENT FOR GRAY & DUCTILE CAST IRON PIPING FOR WATER & OTHER LIQUIDS, A.W.W.A. C 105/A 215-82

THE POLYETHYLENE MATERIAL SHALL MEET THE FOLLOWING STANDARDS:
THICKNESS - 8 MILS (MINIMUM)
PIGMENTATION - 1. NATURAL = WHERE EXPOSURE TO ULTRAVIOLET LIGHT (SUNLIGHT FOR EXAMPLE) WILL BE OF SHORT DURATION (LESS THAN 48 HOURS).
2. BLACK = 2.0 TO 2.5% WELL DISPERSED CARBON BLACK WITH STABILIZERS WHERE EXPOSURE TO ULTRAVIOLET LIGHT (SUNLIGHT) MAY BE PROLONGED (2-10 DAYS)

QUALITY - THE POLYETHYLENE MATERIAL SHALL BE OF VIRGIN POLYETHYLENE MATERIAL PRODUCED FROM DUPONT ALATHON RESIN OR U.S.I. PETROTHENE RESINS OR EQUIVALENT.

POLYETHYLENE MATERIAL SHALL BE IN THE EXTRUDED TUBE FORM IN EITHER PRE-CUT, INDIVIDUALLY PREPARED, SPECIFIED LENGTHS (SUCH AS 20 FT.) OR IN UN-CUT CONTINUOUS LENGTHS FOLDED OR ROLLED IN CONVENIENTLY SIZED PACKAGES. A LISTING OF THE MINIMUM FLATTENED POLYETHYLENE TUBE WIDTHS FOR USE WITH SPECIFIC PIPE SIZES & JOINT TYPES ARE AS FOLLOWS:

NOMINAL PIPE SIZES	PUSH ON JOINT FLAT TUBE WIDTH	MECHANICAL JOINT FLAT TUBE WIDTH
4"	14"	16"
6"	17"	20"
8"	21"	24"
12"	29"	30"
16"	37"	37"
24"	53"	53"

IN ADDITION TO THE POLYETHYLENE MATERIAL, THE PLASTIC ADHESIVE TAPE WILL BE REQUIRED TO COMPLETE THE INSTALLATION. THE TAPE SHALL BE APPROXIMATELY TWO (2) INCHES WIDE, PLASTIC BACKED ADHESIVE TAPE SUCH AS POLYKEM No. 900 OR SCOTCHGRAP No. 50

POLYVINYL CHLORIDE (P.V.C.) SHALL BE DR18 & CONFORM TO A.W.W.A. C 900-81 & ASTM D-2241 & SHALL HAVE INTEGRAL BELL JOINTS.

P.V.C. PRESSURE PIPE SHALL HAVE DETECTABLE METAL TAPE LAID DIRECTLY ABOVE THE FULL LENGTH OF PIPE APPROX. 18" BELOW GROUND SURFACE. TAPE SHALL BE THREE (3) INCHES WIDE, ALARMTAPE, PAUL DOTTER WARNING TAPES INC. DR APPROVED EQUIVALENT.

DUCTILE IRON FITTINGS 3" THROUGH 24" DUCTILE IRON & POLYVINYL CHLORIDE PIPES SHALL BE FULL BODY (CLASS 350) & CONFORM TO THE AMERICAN NATIONAL STANDARD FOR DUCTILE-IRON & GREY-IRON FITTINGS FOR WATER & OTHER LIQUIDS, ANSI/A.W.W.A. C 110/A 2110-82 AS MANUFACTURED BY THE TYLER CO. OR APPROVED EQUIV.

VALVES SHALL BE IN ACCORDANCE WITH A.W.W.A. C 500-80

HYDRANTS SHALL CONFORM TO A.W.W.A. C 502-85 STANDARD FOR DRY BARREL FIRE HYDRANTS, AS LISTED

PIPING SHALL BE INSTALLED & TESTED IN ACCORDANCE WITH THE A.W.W.A. C 600-82 FOR DUCTILE IRON WATERMANS OR A.W.W.A. C 605 FOR P.V.C. PIPE WITH INSTALLATION & TESTING PER A.W.W.A. MANUAL M-23 TEST PRESSURE SHALL BE 170 PSI.

DISINFECTION, FLUSHING & BACTERIOLOGICAL TESTING SHALL BE PERFORMED IN ACCORDANCE WITH A.W.W.A. SPECIFICATION C 651-05 (EXCEPT SECTION 5.1)

ONLY ONE CONNECTION MAY BE MADE TO ANY EXISTING WATERMAIN PRIOR TO DISINFECTION & HEALTH DEPARTMENT APPROVAL OF COMPLETED WORKS. AFTER APPROVAL, REMAINING CONNECTIONS MAY BE MADE WITH E.C.W.A. AUTHORIZATION ONLY.

THE ERIE COUNTY WATER AUTHORITY SHALL OPERATE ALL VALVES OF EXISTING SYSTEMS & SHALL OPEN NEW VALVES TO NEWLY CONSTRUCTED WATERMANS.

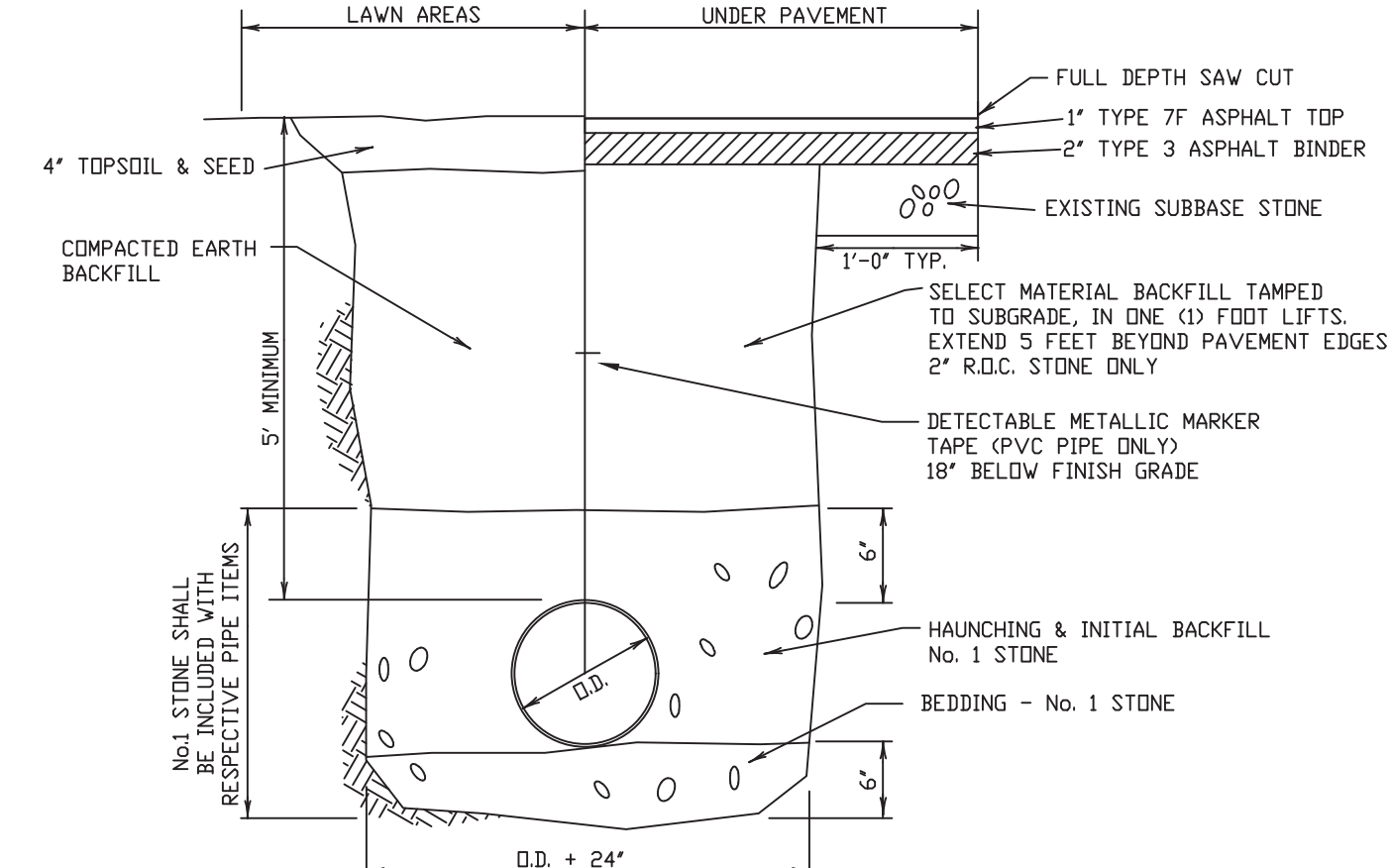
CORPORATION STOPS SHALL HAVE THREADS CONFORMING TO A.W.W.A. C 800-66.

CORPORATION STOPS & CURB STOPS SHALL CONFORM TO ASTM B-62-62. COPPER TUBING SHALL BE TYPE "K" & CONFORM TO ASTM B-88-62. BRASS NIPPLE FOR THE BLOWOFF SHALL CONFORM TO ASTM B-43-62 & SHALL HAVE IRON PIPE THREADS COMPATIBLE TO THE PLUG & CURB STOPS.

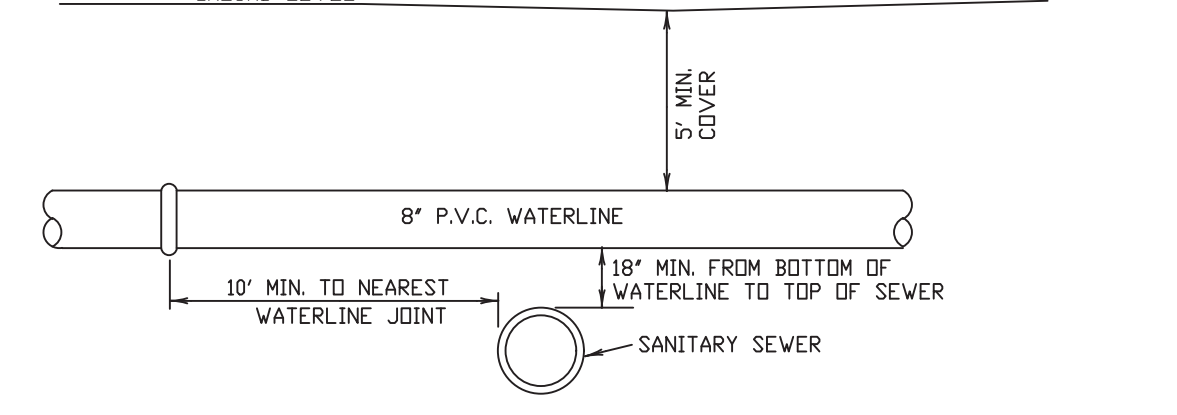
BACTERIOLOGICAL SAMPLES SHALL BE TAKEN FROM SAMPLING POINTS LOCATED AT APPROXIMATELY 1000 FT. INTERVALS (MAXIMUM) & AT THE BEGINNING & END OF EACH SECTION.

ALL EXCAVATIONS UNDER ANY UTILITY WILL BE BACKFILLED WITH TAMPED 2" CRUSH OF RUN STONE TO A POINT AT LEAST 6" OVER THE UTILITY.

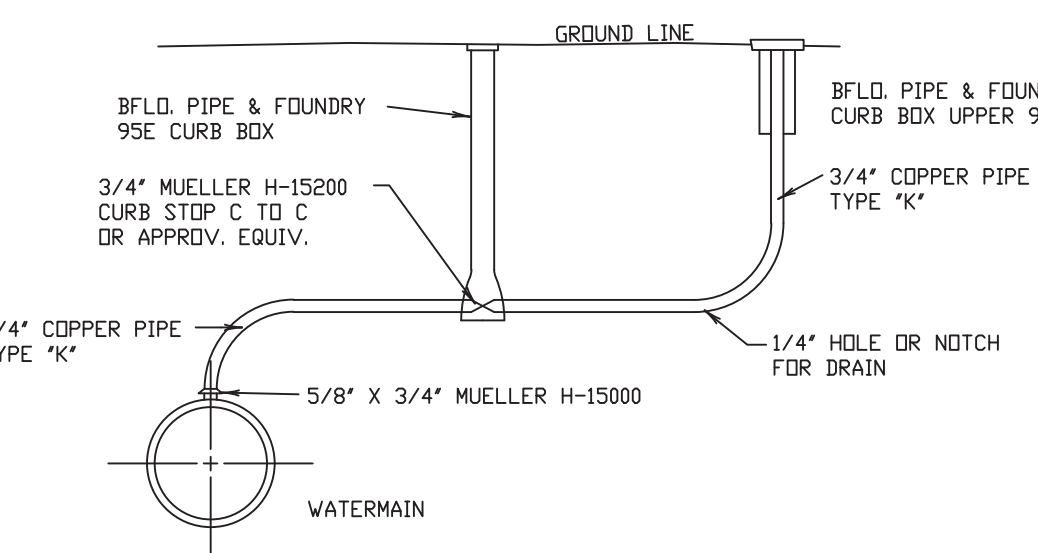
FOR ALL ROAD CROSSINGS USING JACK & BORING METHOD, SEE TOWN OF WEST SENeca SANITARY SEWER DETAILS SHEET DATED 9/84



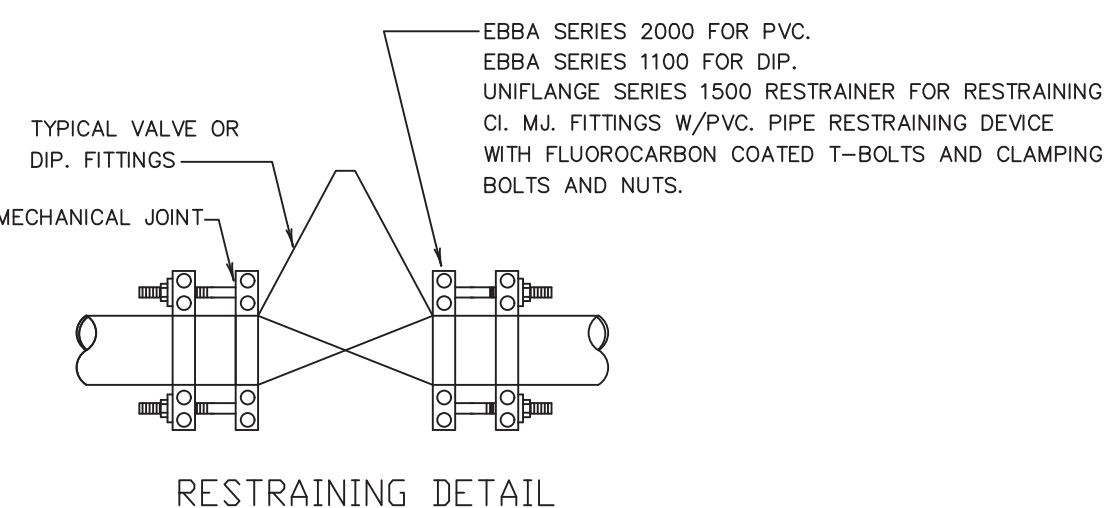
P.V.C. OR D.I. PIPE PAYMENT LIMITS



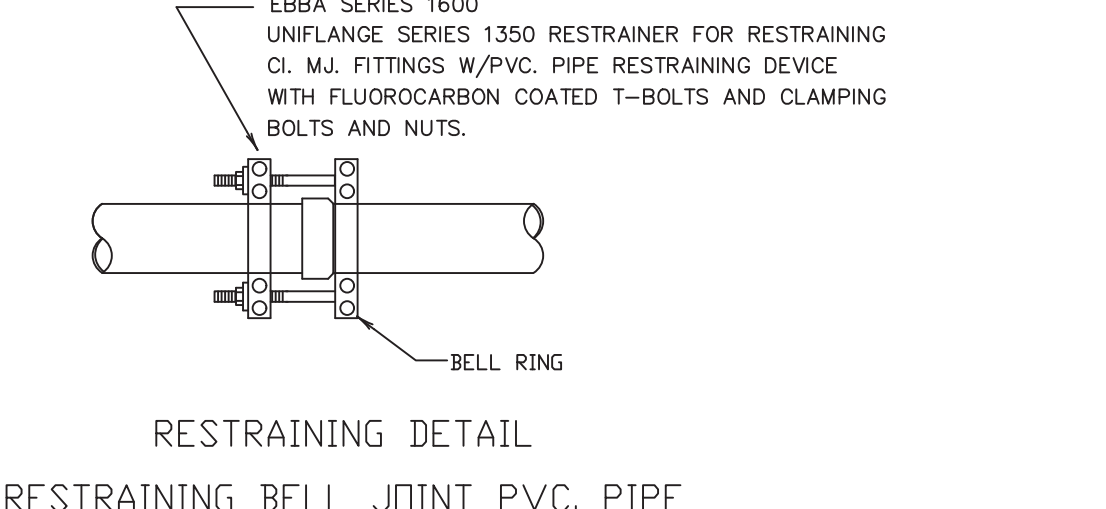
TYPICAL WATER LINE - SEWER LINE CROSSING



TYPICAL AIR VENT ASSEMBLY



RESTRAINING DETAIL M.J. VALVES AND FITTINGS TO P.V.C. PIPE

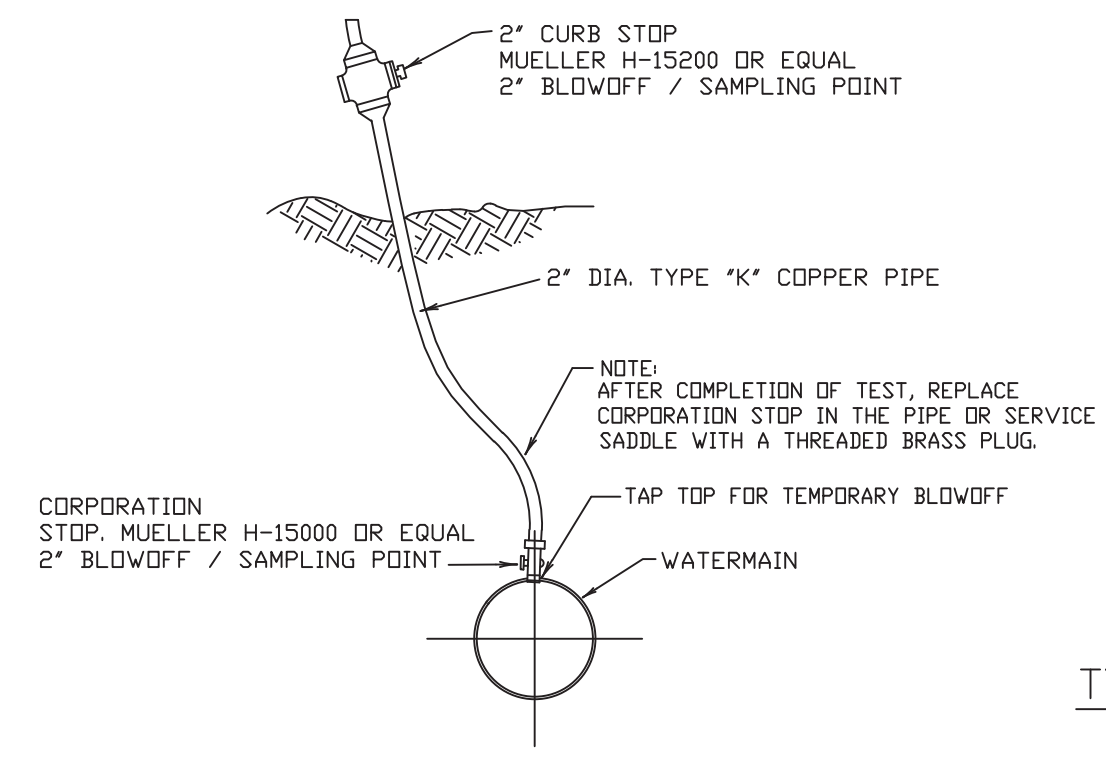


RESTRAINING DETAIL RESTRAINING BELL JOINT P.V.C. PIPE

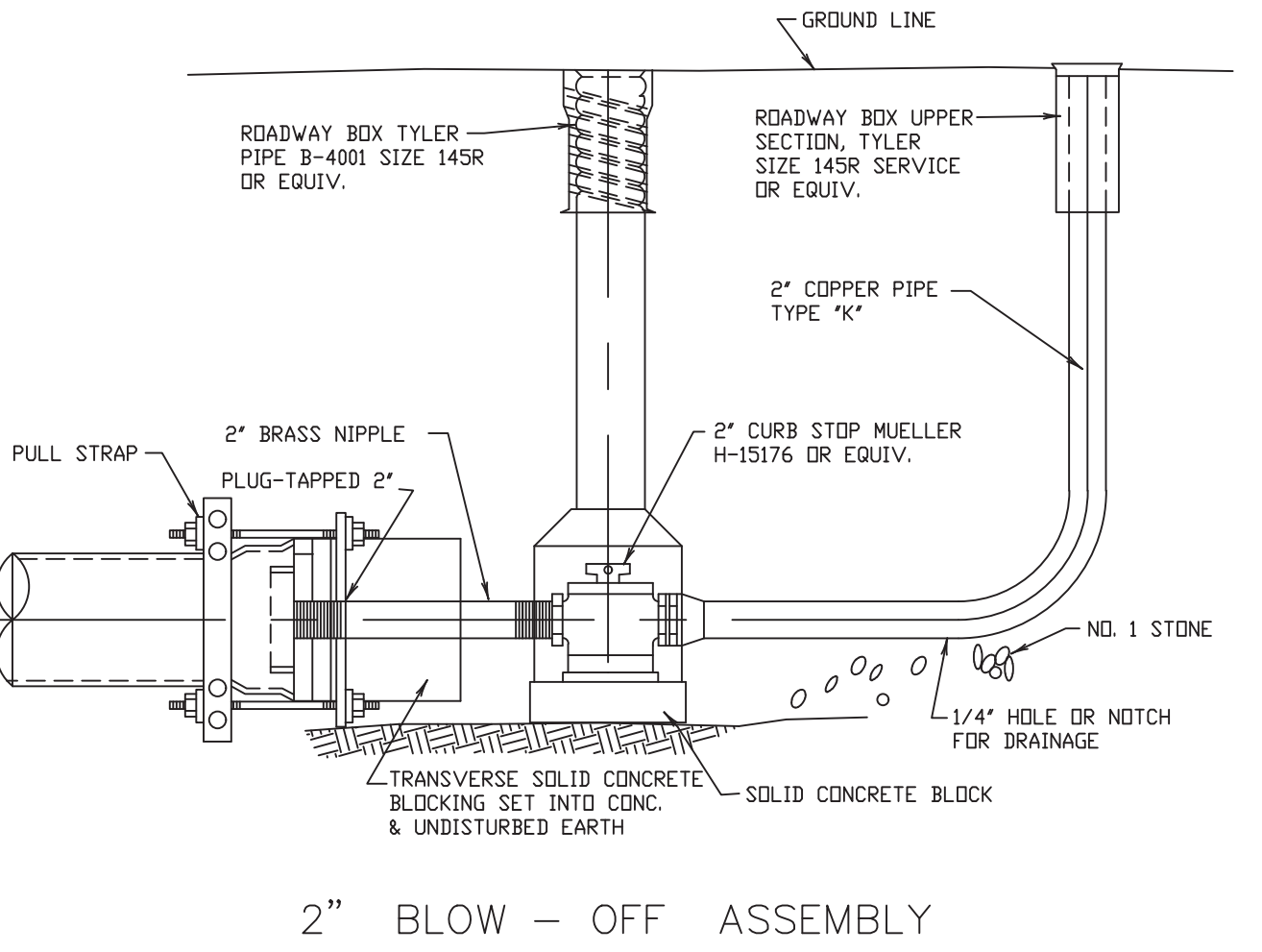
NOTE: ALL VALVES AND FITTINGS ARE TO BE THRUST RESTRAINED

PIPE SIZE	LENGTH OF REQUIRED THRUST RESTRAINT IN FEET (EACH SIDE OF FITTING)			
	11 1/4" BEND	22 1/2" BEND	45" BEND	90° BENDS, VALVES, TEES AND DEAD ENDS (NOT HYDRANT TEES)
6" P.V.C.	13	25	50	120
8" P.V.C.	15	30	59	122
10" P.V.C.	16	35	68	141
12" P.V.C.	20	39	76	158
8" DIP.	10	20	38	79

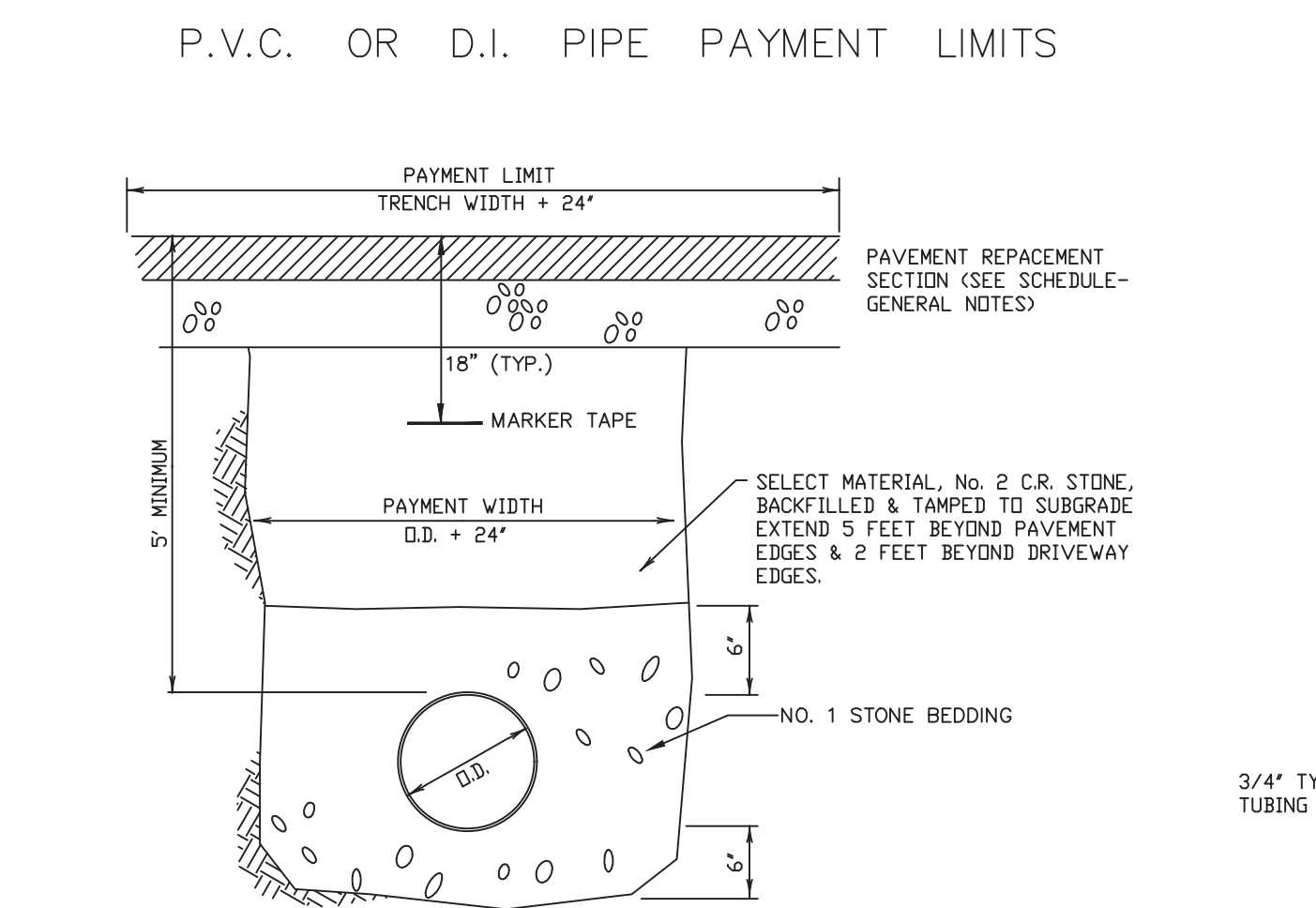
TYPICAL RESTRAINED JOINT DETAILS AND TABLE



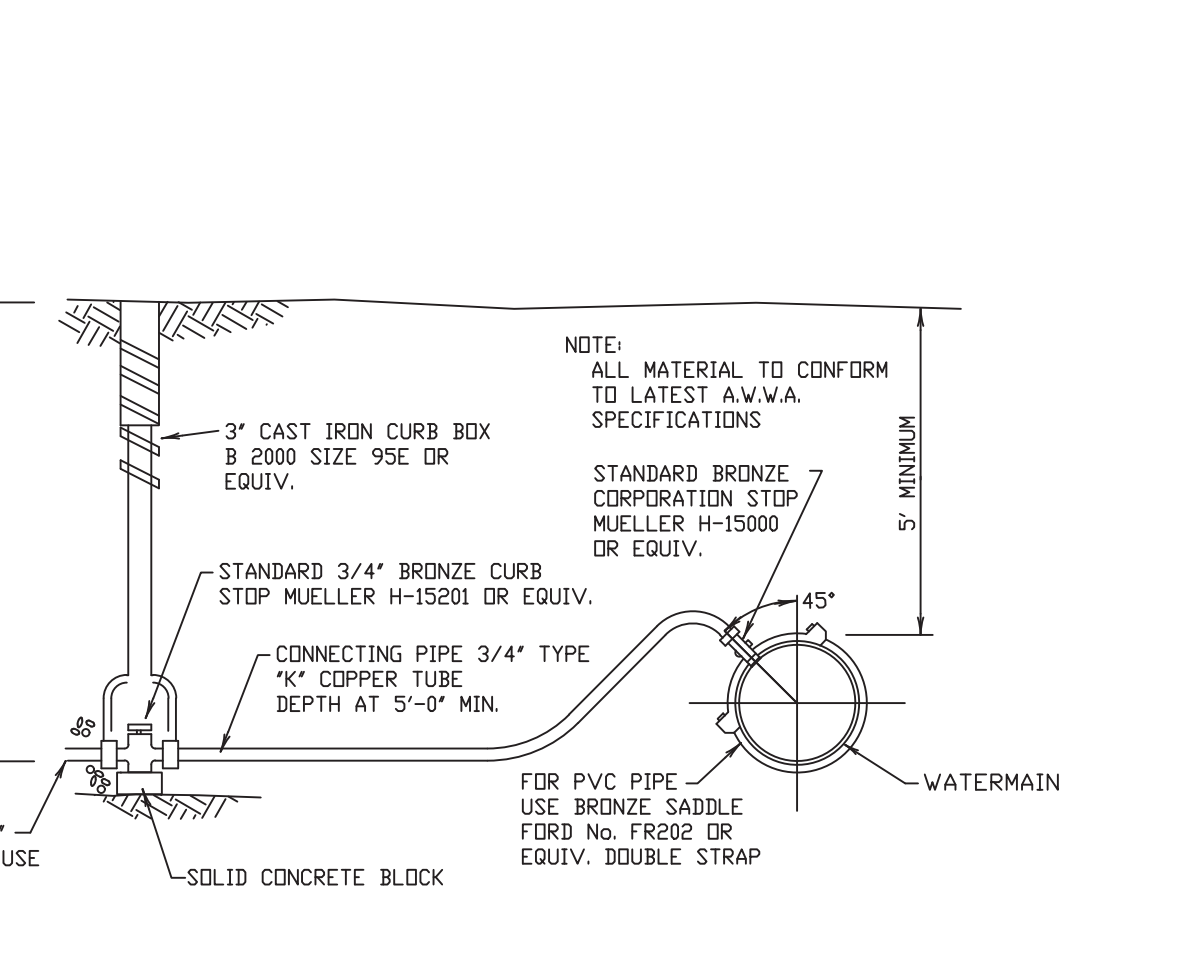
TEMPORARY BLOW-OFF / SAMPLING POINT



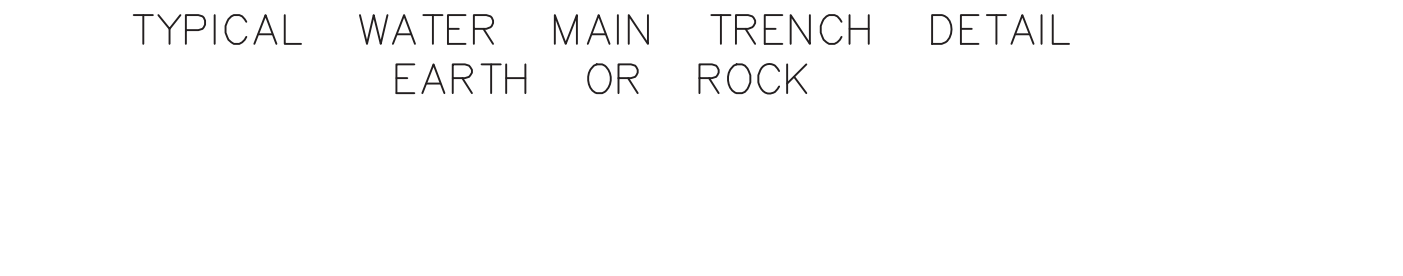
2" BLOW-OFF ASSEMBLY



ROADWAY / DRIVEWAY CROSSINGS



TYPICAL WATER SERVICE LINE INSTALLATION



TYPICAL WATER MAIN TRENCH DETAIL EARTH OR ROCK

WEST SENeca ENGINEERING DEPARTMENT
1250 UNION ROAD, WEST SENeca, N.Y. 14224
PHONE : 674-5600

WATER LINE DETAILS

DRAWN BY: [] DATE: 2/93 JOB NO. [] DRAWING NO. []
APPROVED BY: GM. SCALE: HOR. NONE VER. [] of