

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

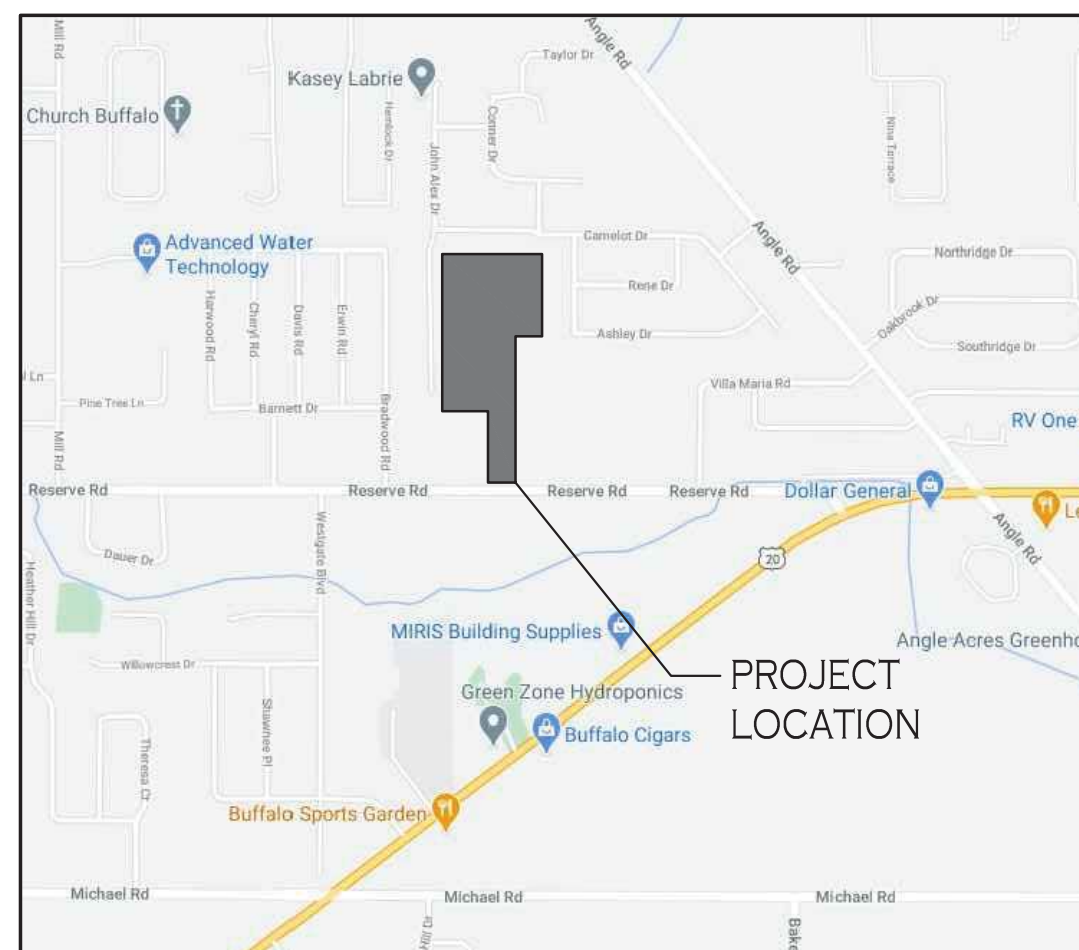
PROJECT SURVEYOR

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



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 Buffalo, New York 14203
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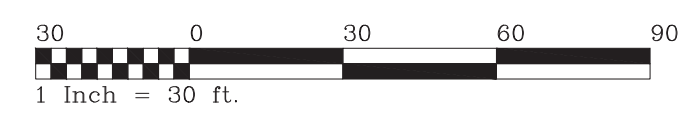
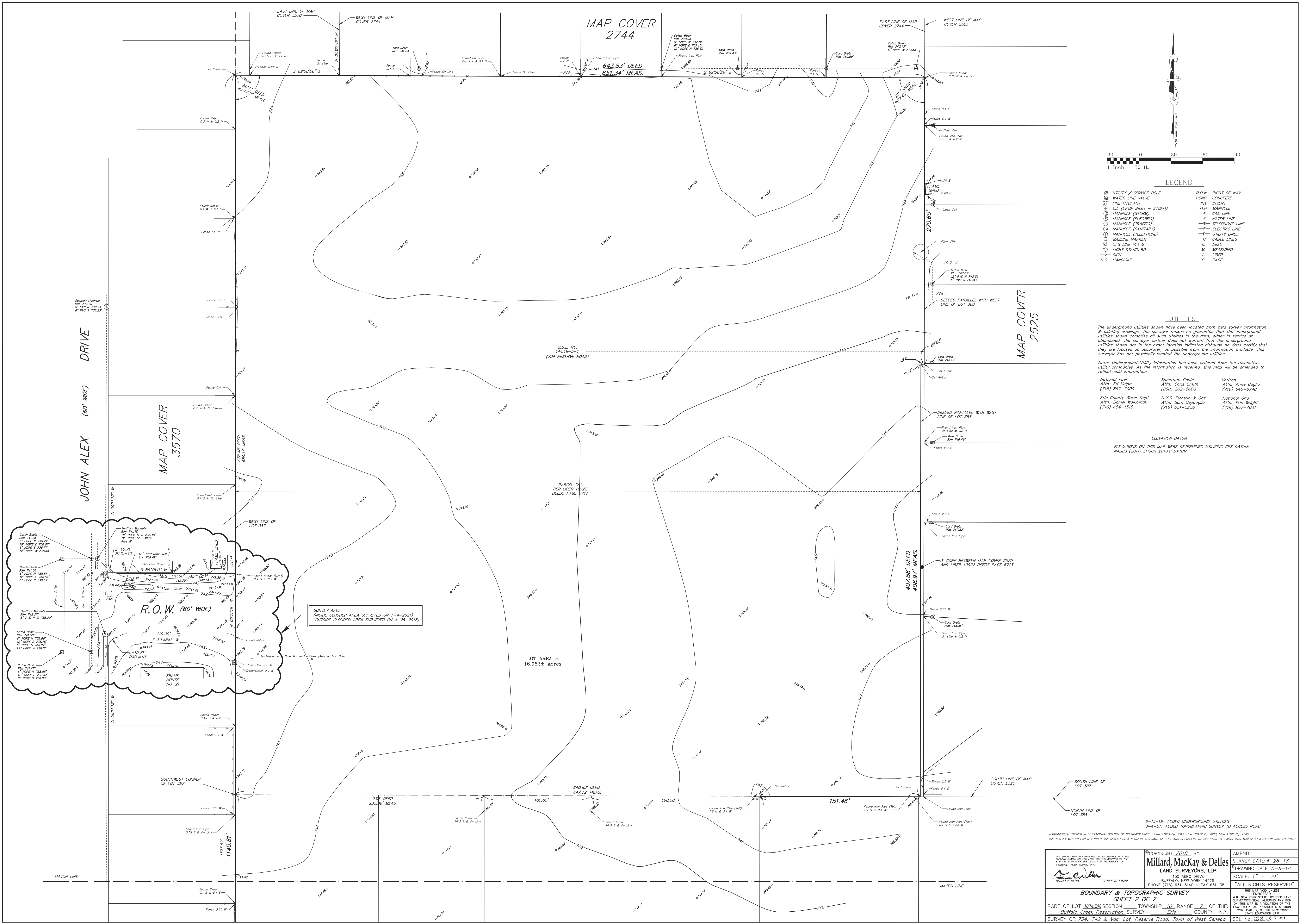
March 2021
 REVISED JULY 2021

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
L-100	LANDSCAPE PLAN
-	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)	MANHOLE
⊗ MANHOLE (STORM)	— GAS LINE
⊗ MANHOLE (ELECTRIC)	— WATER LINE
⊗ MANHOLE (TRAFFIC)	— TELEPHONE LINE
⊗ MANHOLE (SANITARY)	— ELECTRIC LINE
⊗ MANHOLE (TELEPHONE)	— UTILITY LINES
⊗ GASLINE MARKER	— CABLE LINES
⊗ GAS LINE VALVE	D. DEED
⊗ LIGHT STANDARD	M. MEASURED
⊗ SIGN	L. LIBER
H.C. HANDICAP	P. PAGE

UTILITIES

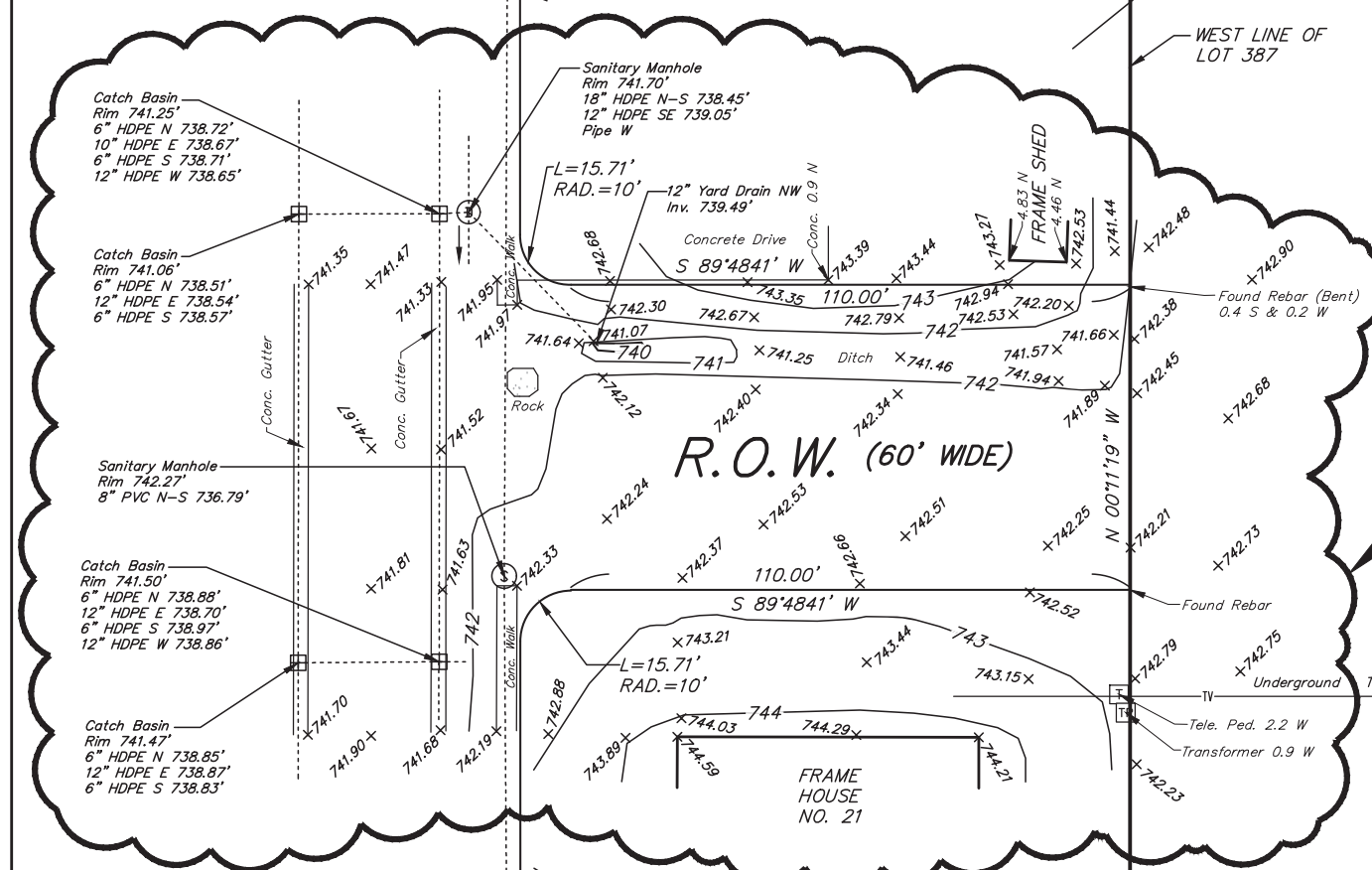
The underground utilities shown have been located from field survey information & existing drawings. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground 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 Cappiolo (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

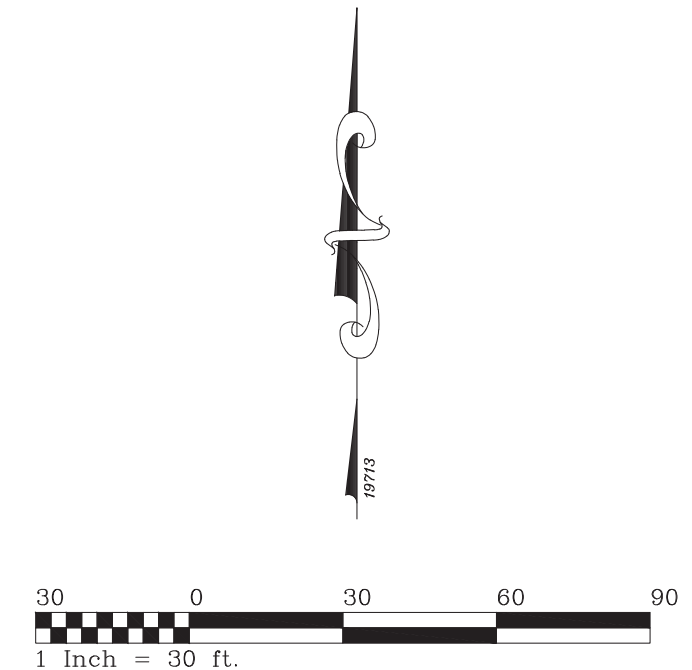
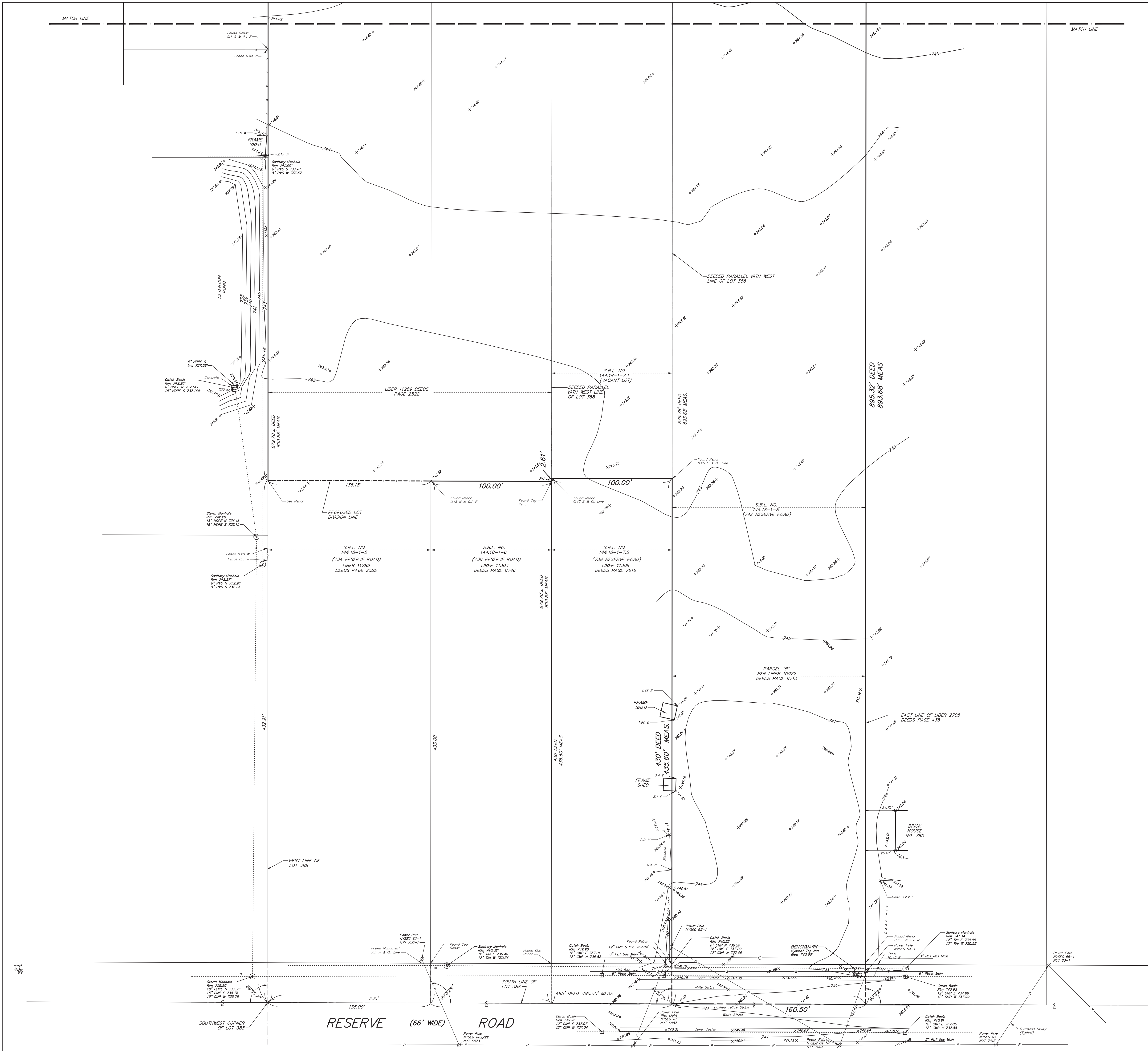


SURVEY AREA
(INSIDE CLOUDED AREA SURVEYED ON 3-4-2021)
(OUTSIDE CLOUDED AREA SURVEYED ON 4-26-2018)

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. 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 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	



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
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⊕ GAS LINE VALVE	D. DEED
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ELEVATION DATUM

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

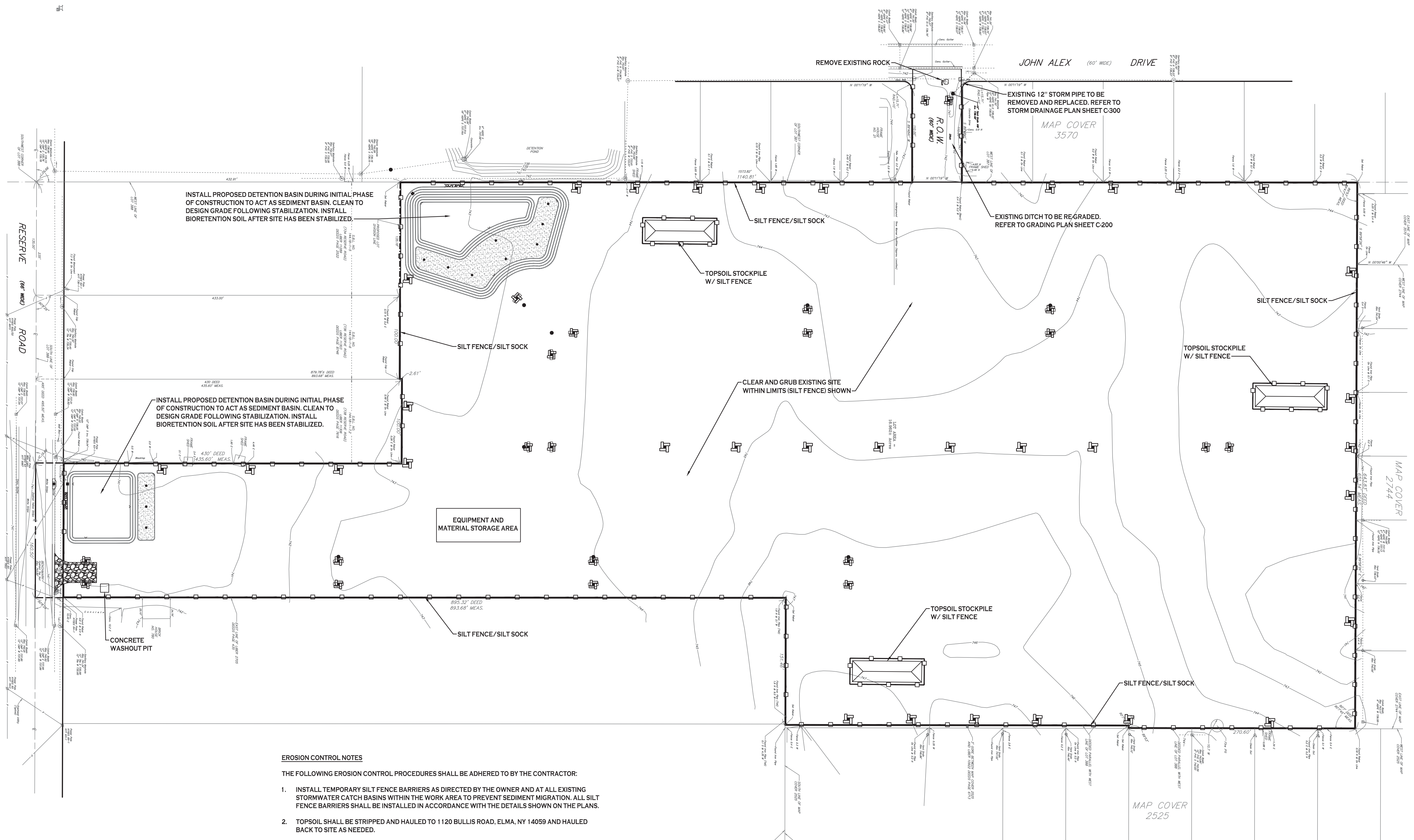
6-15-18: ADDED UNDERGROUND UTILITIES

INSTRUMENTS UTILIZED IN DETERMINING LOCATION OF BOUNDARY LINES: Liber 11289 Pg. 2522; Liber 10922 Pg. 6753; Liber 11105 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 SCALE: 1" = 30' "ALL RIGHTS RESERVED"	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. 144.18-1-5, 144.18-1-6, 144.18-1-7, 144.18-1-8	

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EROSION CONTROL NOTES

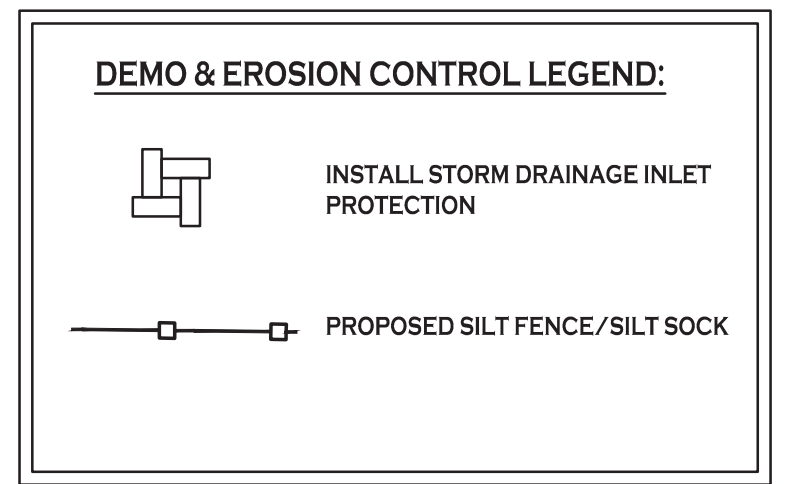
THE FOLLOWING EROSION CONTROL PROCEDURES SHALL BE ADHERED TO BY THE CONTRACTOR:

- 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.
- TOPSOIL SHALL BE STRIPPED AND HAULED TO 1120 BULLIS ROAD, ELMA, NY 14059 AND HAULED BACK TO SITE AS NEEDED.
- ALL SILT FENCE BARRIERS SHALL BE REPLACED WHEREVER THEY BECOME CLOGGED OR INOPERABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.
- 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.
- 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.
- 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.
- 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.
- 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.
- INSTALL TEMPORARY SILT FENCE AROUND THE BASE OF STOCKPILES.
- 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.
- 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.

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

NOTES:

- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCES WHERE ACCESSING THE SITE FROM PAVED ROADWAYS.
- 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.



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REVISIONS:

No.	Description	Date
1	Revised per Engineering comments	7/20/21

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

Issued for Construction: xx.xx.xx
Municipality Submission: 4/15/21
Drawn by: A. Pandolfo
Scale: As Noted

DRAWING NAME:
Demo & Erosion Control Plan

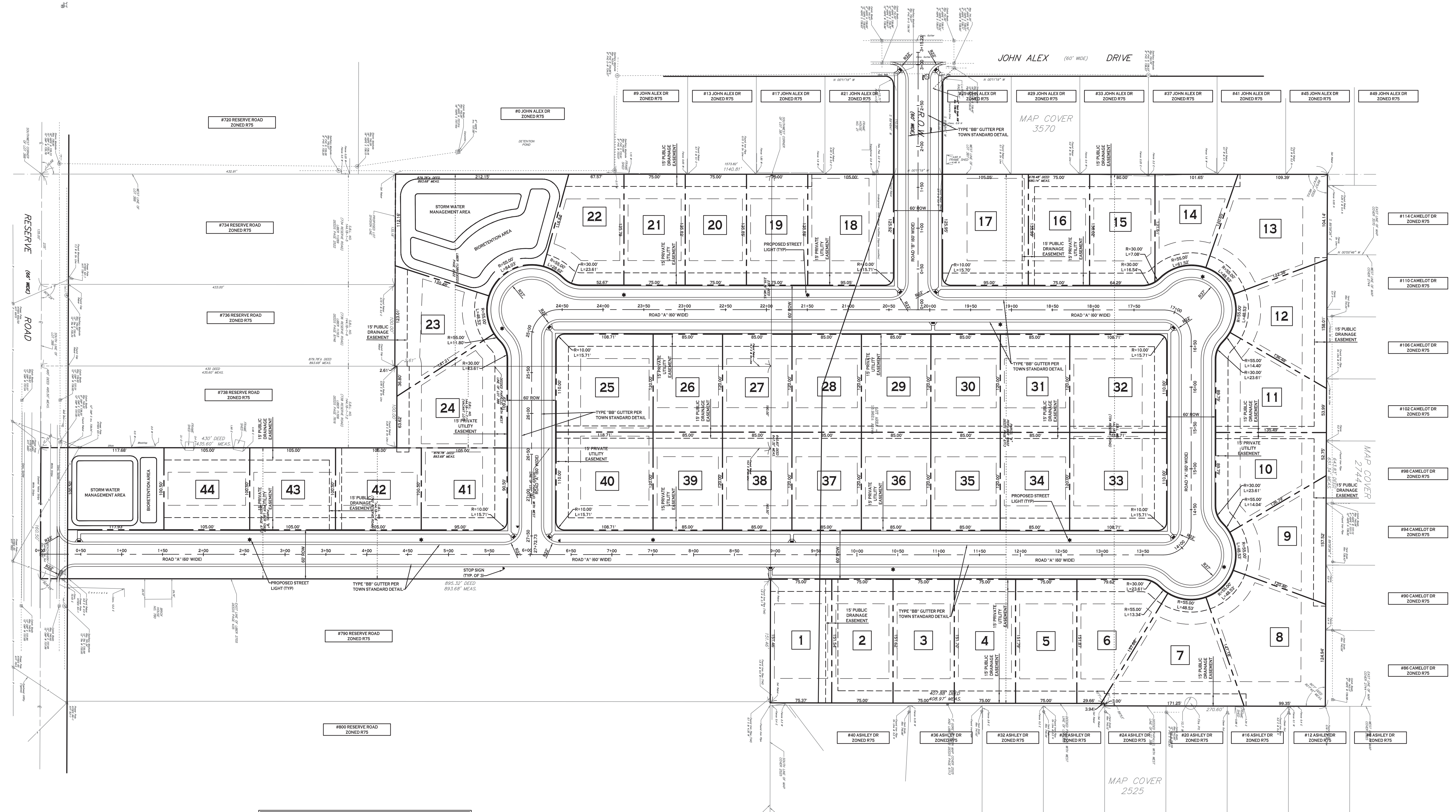
DRAWING NO.
C-001
Project no.: 18.077

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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.

REVISIONS:	No.	Description	Date

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

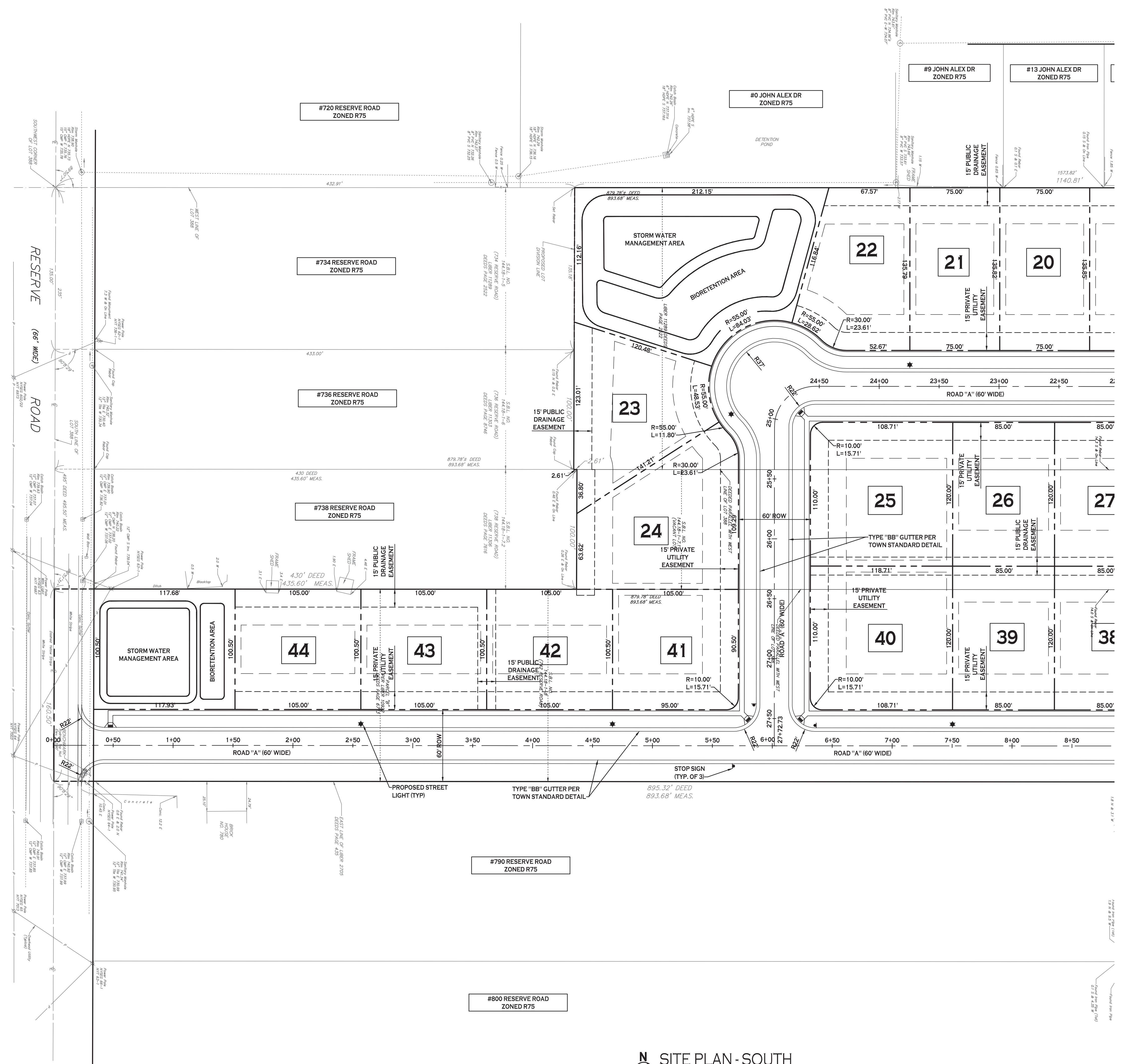
Issued for Construction: xx.xx.xx
 Municipality Submission: 4/15/21
 Drawn by: C. Wood
 Scale: As Noted

DRAWING NAME:
Site Plan - Overall

DRAWING NO.
C-100
 Project no.: 18.077

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SITE PLAN - SOUTH
SCALE: 1"=40'

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	

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



REVISIONS:	Description	Date
No.		

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

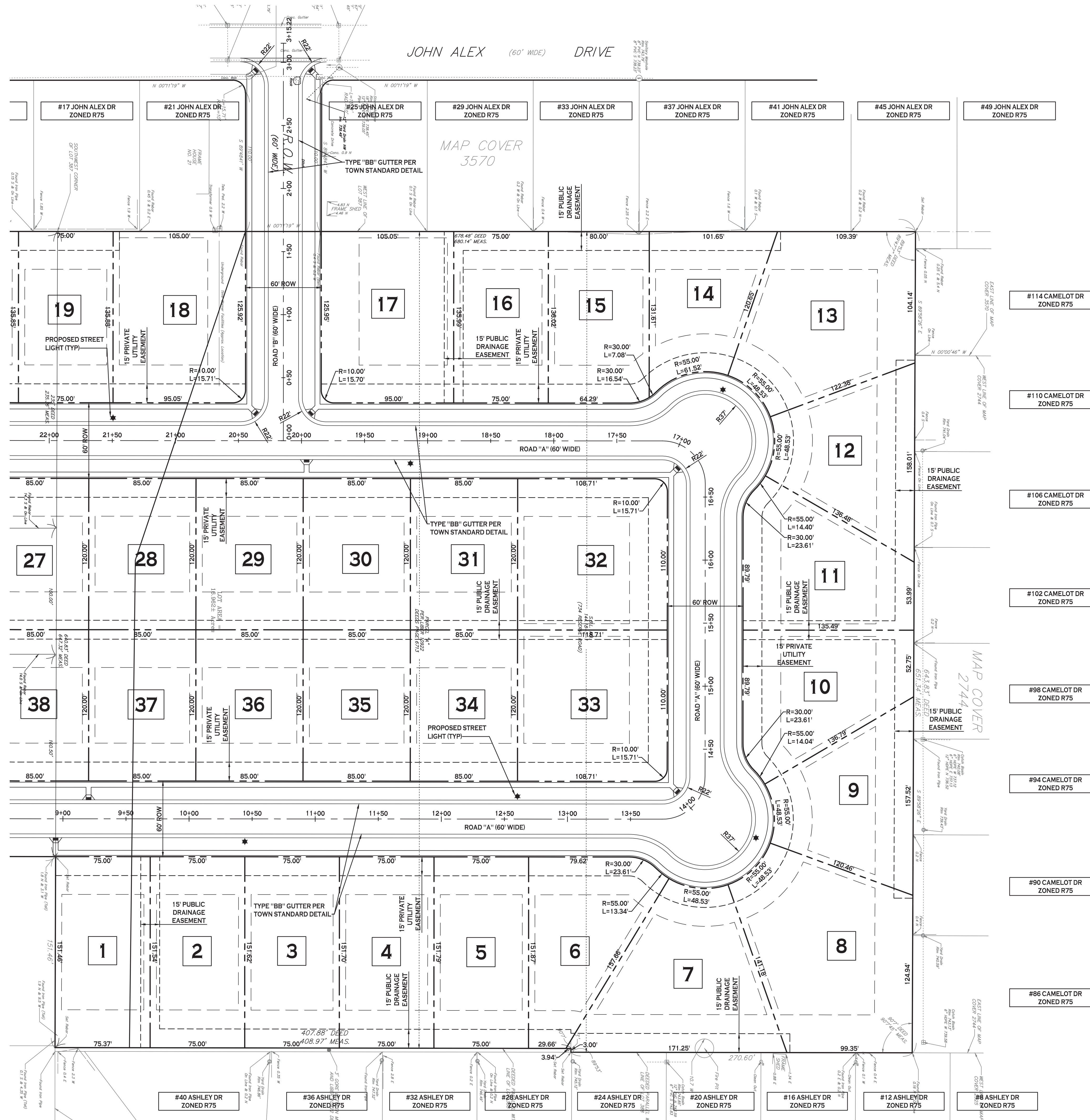
Issued for Construction: xx.xx.xx
Municipality Submission: 4/15/21
Drawn by: C. Wood
Scale: As Noted

DRAWING NAME:
Site Plan - South

DRAWING NO.
C-101
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 - NORTH
 SCALE: 1"=40'

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40 0 40 80FT.



REVISIONS:

No.	Description	Date

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

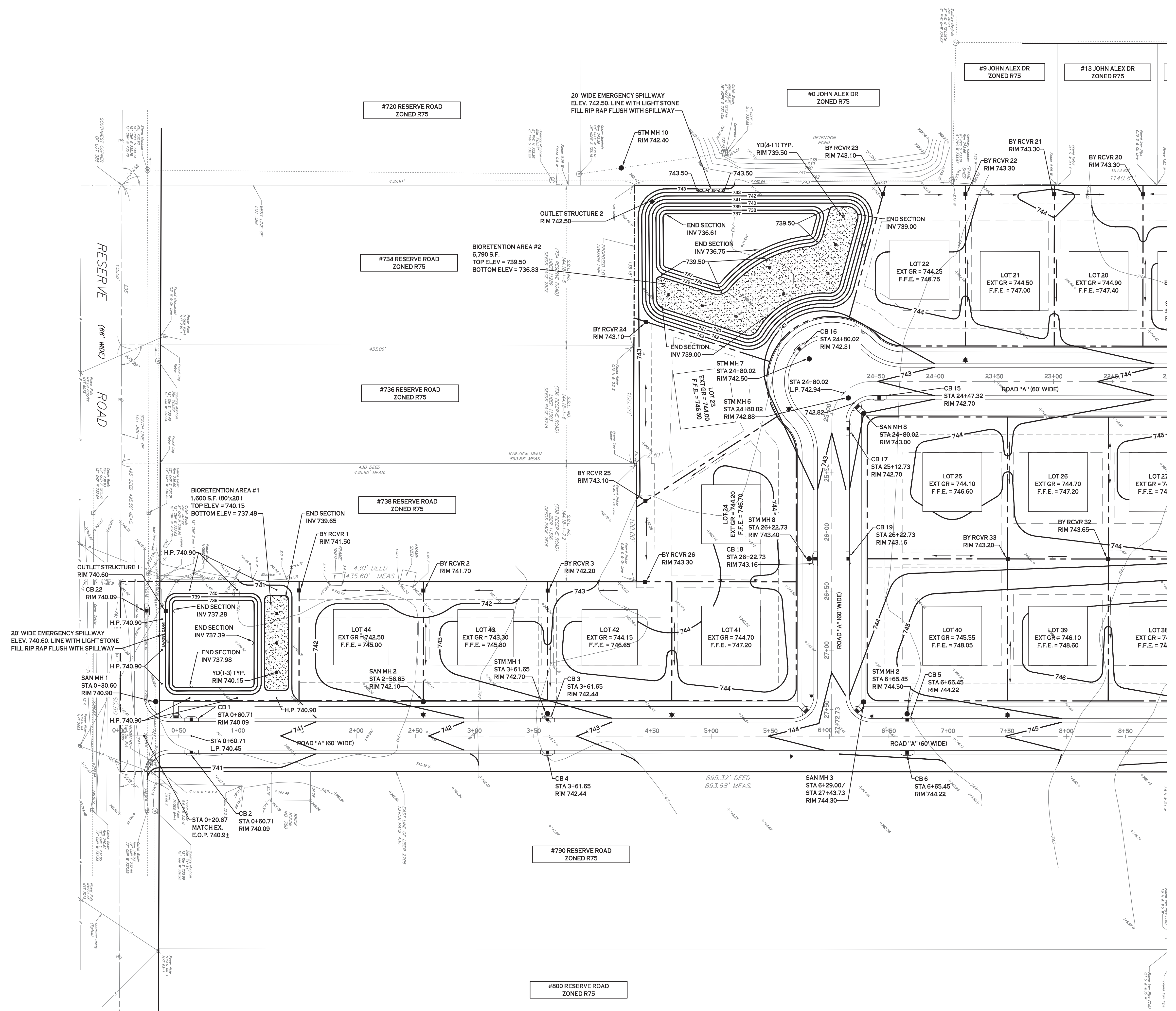
Issued for Construction: xx.xx.xx
 Municipality Submission: 4/15/21
 Drawn by: C. Wood
 Scale: As Noted

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:**
- IN GENERAL, 1ST FFE FOR THE PROPOSED HOUSES SHALL BE 2.5' ABOVE HIGHEST EXTERIOR GRADE ELEVATION
 - IN GENERAL, TOP OF WALL ELEVATION SHALL BE 1.5' ABOVE HIGHEST EXTERIOR GRADE ELEVATION
 - 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.



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REVISIONS:	No.	Description	Date
	1	Revised per Engineering comments	7/25/21

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Proposed Subdivision
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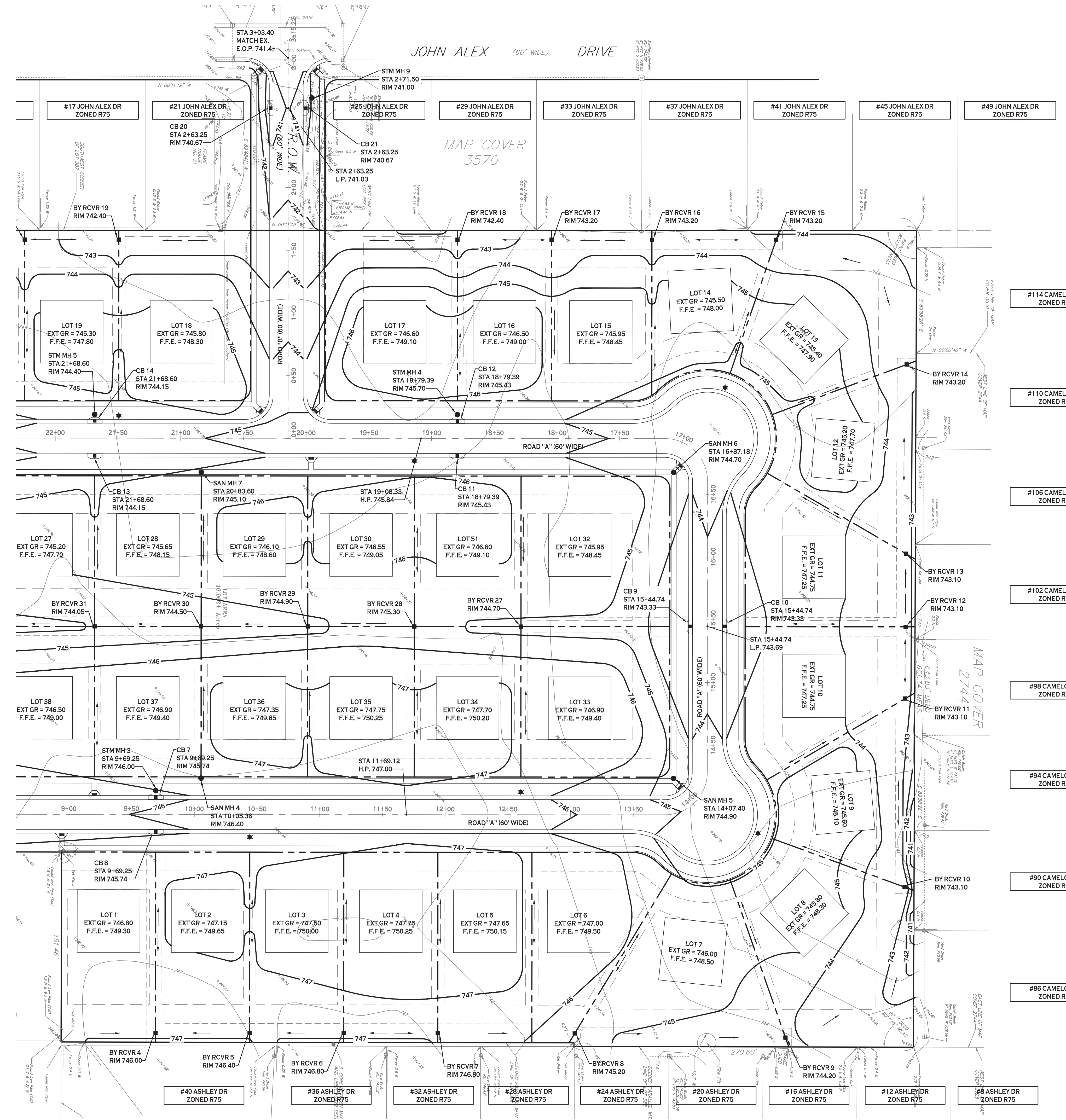
Issued for Construction: xx.xx.xx
Municipality Submission: 4/15/21
Drawn by: A. Pandolfie
Scale: As Noted

DRAWING NAME:
Grading Plan - South

DRAWING NO.
C-200
Project no.: 18.077

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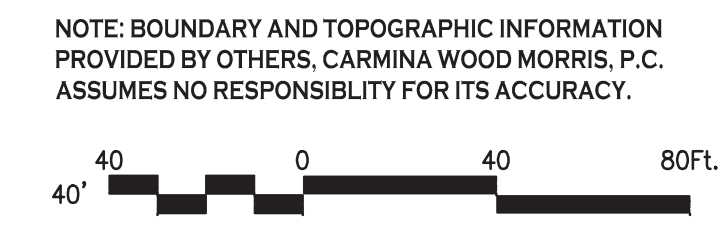
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- #17 JOHN ALEX DR ZONED R75
- #21 JOHN ALEX DR ZONED R75
- #25 JOHN ALEX DR ZONED R75
- #29 JOHN ALEX DR ZONED R75
- #33 JOHN ALEX DR ZONED R75
- #37 JOHN ALEX DR ZONED R75
- #41 JOHN ALEX DR ZONED R75
- #45 JOHN ALEX DR ZONED R75
- #49 JOHN ALEX DR ZONED R75
- #114 CAMELOT DR ZONED R75
- #110 CAMELOT DR ZONED R75
- #106 CAMELOT DR ZONED R75
- #102 CAMELOT DR ZONED R75
- #98 CAMELOT DR ZONED R75
- #94 CAMELOT DR ZONED R75
- #90 CAMELOT DR ZONED R75
- #86 CAMELOT DR ZONED R75
- #40 ASHLEY DR ZONED R75
- #36 ASHLEY DR ZONED R75
- #32 ASHLEY DR ZONED R75
- #28 ASHLEY DR ZONED R75
- #24 ASHLEY DR ZONED R75
- #20 ASHLEY DR ZONED R75
- #16 ASHLEY DR ZONED R75
- #12 ASHLEY DR ZONED R75
- #8 ASHLEY DR ZONED R75

- GRADING NOTES:**
- IN GENERAL, 1ST FFE FOR THE PROPOSED HOUSES SHALL BE 2.5' ABOVE HIGHEST EXTERIOR GRADE ELEVATION
 - IN GENERAL, TOP OF WALL ELEVATION SHALL BE 1.5' ABOVE HIGHEST EXTERIOR GRADE ELEVATION
 - 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.

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



REVISIONS:

No.	Description	Date
1	Revised per Engineering comments	7/25/21

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

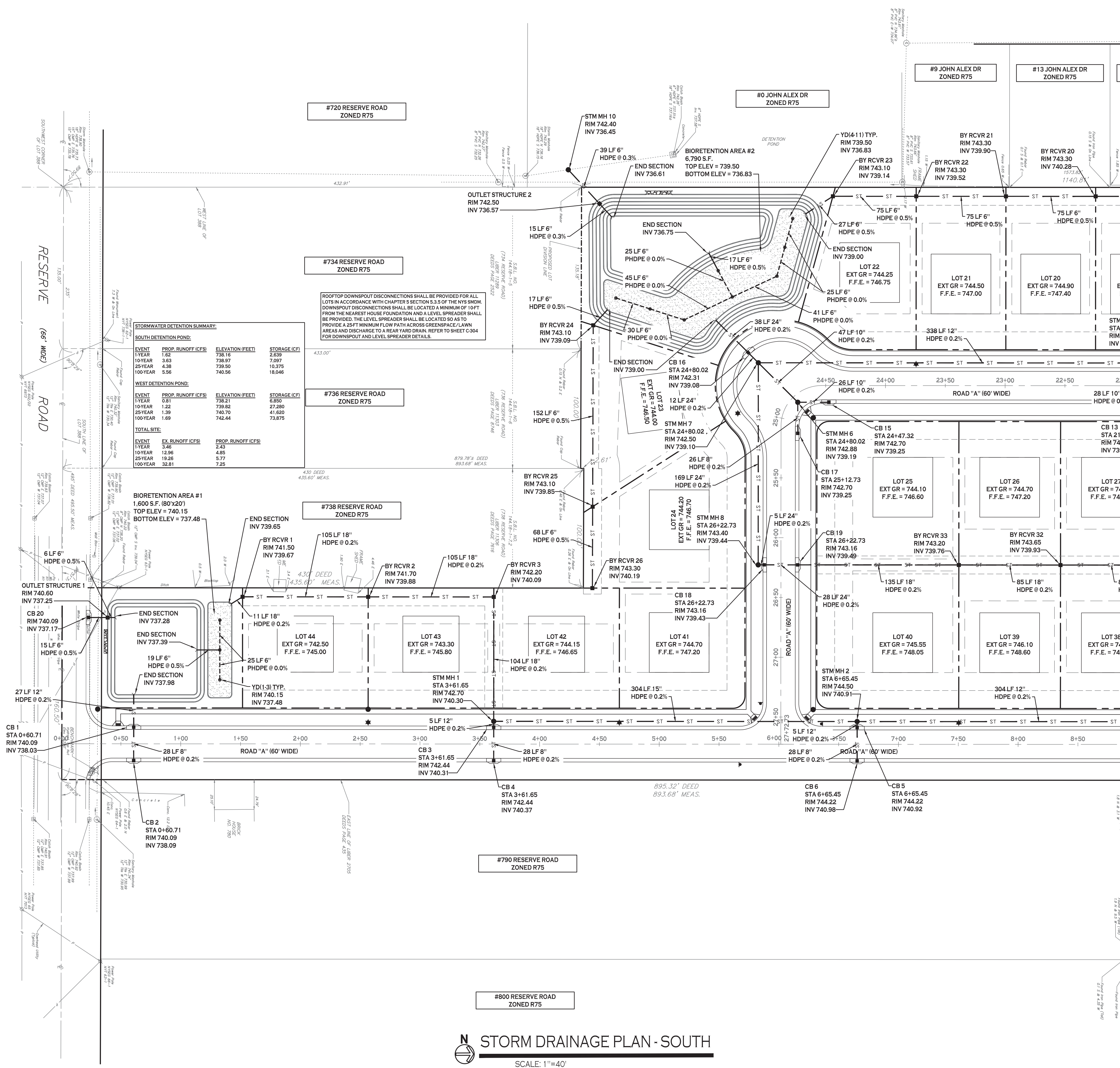
Issued for Construction: xx.xx.xx
 Municipality Submission: 4/15/21
 Drawn by: A. Pandolfo
 Scale: As Noted

DRAWING NAME:
 Grading Plan - North

DRAWING NO.:
C-201
 Project no.: 18.077

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STORMWATER DETENTION SUMMARY:

SOUTH DETENTION POND:

EVENT	PROP. RUNOFF (CFS)	ELEVATION (FEET)	STORAGE (CF)
1 YEAR	1.62	738.16	2,638
10 YEAR	3.63	738.97	7,097
25 YEAR	4.38	739.50	10,378
100 YEAR	5.56	740.56	18,046

WEST DETENTION POND:

EVENT	PROP. RUNOFF (CFS)	ELEVATION (FEET)	STORAGE (CF)
1 YEAR	0.91	738.21	2,43
10 YEAR	1.22	739.82	27,280
25 YEAR	1.39	740.70	41,820
100 YEAR	1.69	742.44	73,875

TOTAL SITE:

EVENT	EX. RUNOFF (CFS)	PROP. RUNOFF (CFS)
1 YEAR	3.46	2.43
10 YEAR	12.96	4.85
25 YEAR	19.26	5.77
100 YEAR	32.61	7.25

ROOFTOP DOWNSPOUT DISCONNECTIONS SHALL BE PROVIDED FOR ALL LOTS IN ACCORDANCE WITH CHAPTER 5.3.3 OF THE NYS SMOKE DOWNSPOUT DISCONNECTIONS SHALL BE LOCATED A MINIMUM OF 10 FT FROM THE NEAREST HOUSE FOUNDATION AND A LEVEL SPREADER SHALL BE PROVIDED. THE LEVEL SPREADER SHALL BE LOCATED SO AS TO PROVIDE A 25 FT MINIMUM FLOW PATH ACROSS GREENSPACE/LAWN AREAS AND DISCHARGE TO A REAR YARD DRAIN. REFER TO SHEET C-304 FOR DOWNSPOUT AND LEVEL SPREADER DETAILS.

STORM DRAINAGE PLAN - SOUTH

SCALE: 1"=40'

PROPOSED UTILITY LEGEND

PROPOSED STORM SEWER	— ST —
PROPOSED SANITARY SEWER	— SA —
PROPOSED WATERLINE	— V —
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.

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



REVISIONS:

No.	Description	Date
1	Revised per Engineering comments	7/25/21

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

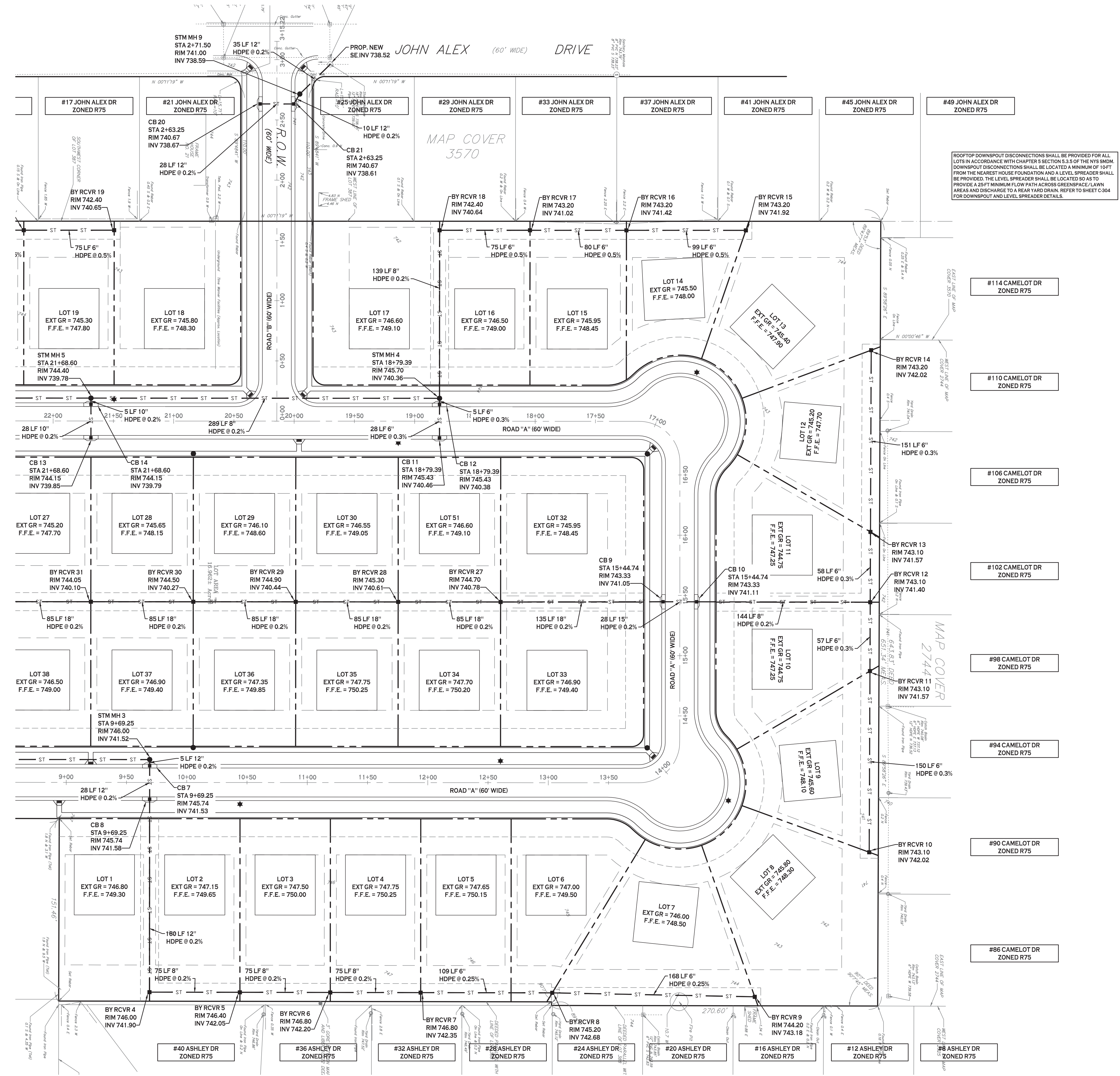
Issued for Construction: xx.xx.xx
 Municipality Submission: 4/15/21
 Drawn by: A. Pandolle
 Scale: As Noted

DRAWING NAME:
Storm Drainage Plan - South

DRAWING NO.
C-300
 Project no.: 18.077

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ROOFTOP DOWNSPOUT DISCONNECTIONS SHALL BE PROVIDED FOR ALL LOTS IN ACCORDANCE WITH CHAPTER 5 SECTION 5.3.5 OF THE NYS SMDM. DOWNSPOUT DISCONNECTIONS SHALL BE LOCATED A MINIMUM OF 10 FT FROM THE NEAREST HOUSE FOUNDATION AND A LEVEL SPREADER SHALL BE PROVIDED. THE LEVEL SPREADER SHALL BE LOCATED SO AS TO PROVIDE A 25 FT MINIMUM FLOW PATH ACROSS GREENSPACE/LAWN AREAS AND DISCHARGE TO A REAR YARD DRAIN. REFER TO SHEET C-304 FOR DOWNSPOUT AND LEVEL SPREADER DETAILS.

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.

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



REVISIONS:

No.	Description	Date
1	Revised per Engineering comments	7/25/21

Proposed Subdivision
New Construction
Reserve Rd
West Seneca, New York

PROJECT NAME:
Issued for Construction: xx.xx.xx
Municipality Submission: 4/15/21
Drawn by: A. Pandolfo
Scale: As Noted

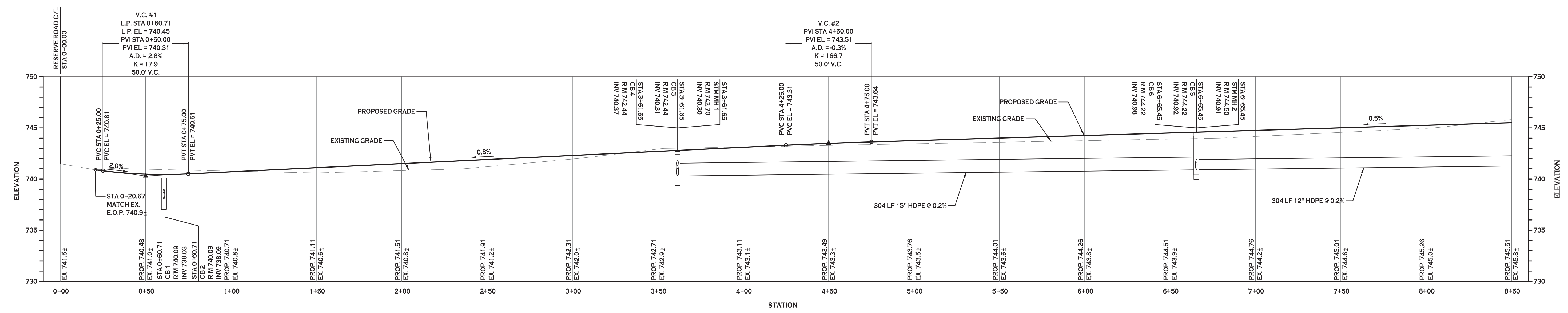
DRAWING NAME:
Storm Drainage Plan - North

DRAWING NO.
C-301
Project no.: 18.077



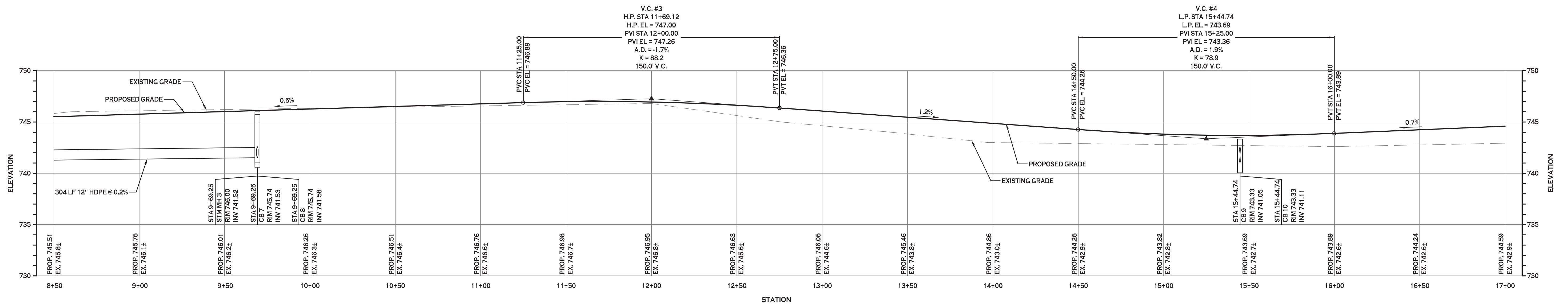
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PAVING & DRAINAGE PROFILE ROAD "A" STA 0+00 - 8+50

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
1	Revised per Engineering comments	7/25/21

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

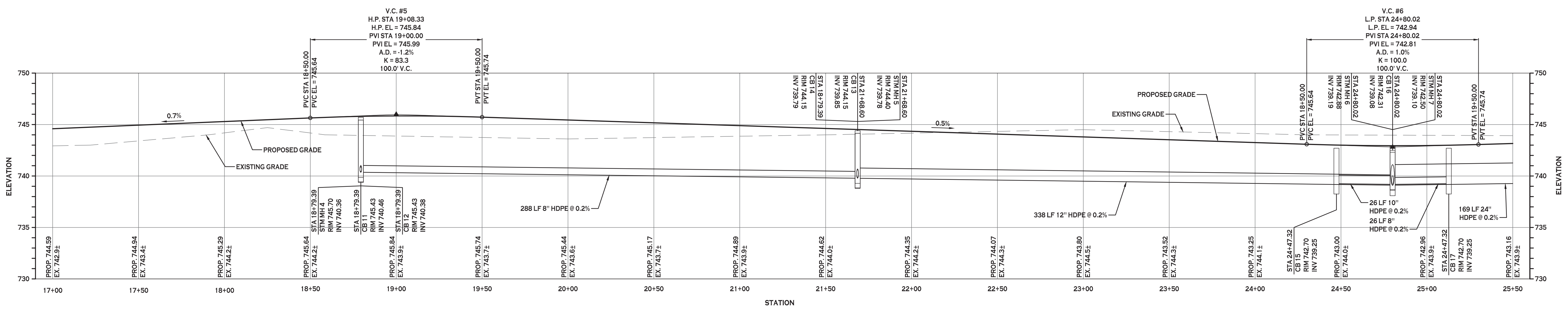
Issued for Construction: xx.xx.xx
Municipality Submission: 4/15/21
Drawn by: A. Pandolfie
Scale: As Noted

DRAWING NAME:
Paving & Drainage Profiles

DRAWING NO.
C-302
Project no.: 18.077

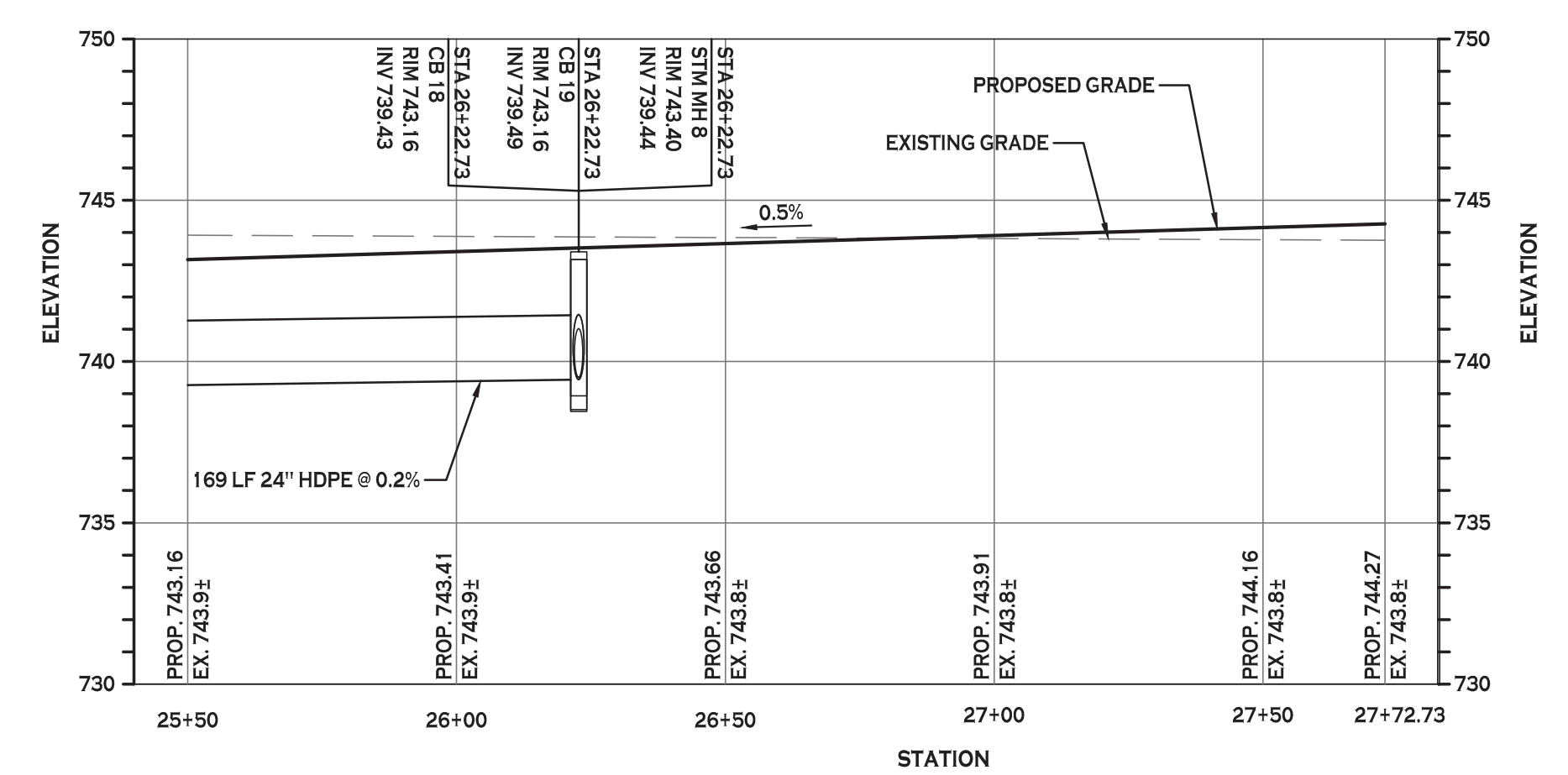
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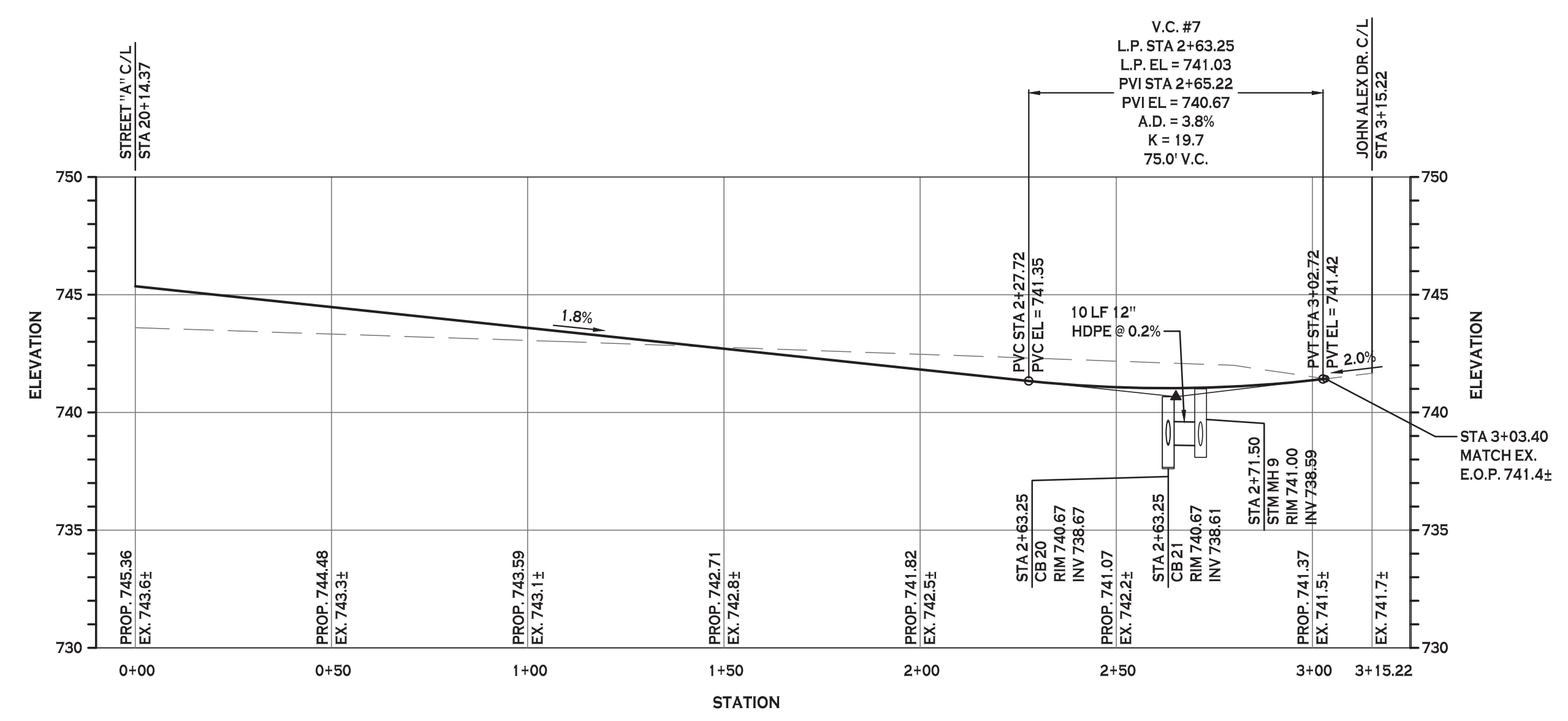
PAVING & DRAINAGE PROFILE ROAD "A" STA 17+00 - 25+50

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
	1	Revised per Engineering comments	7/25/21

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

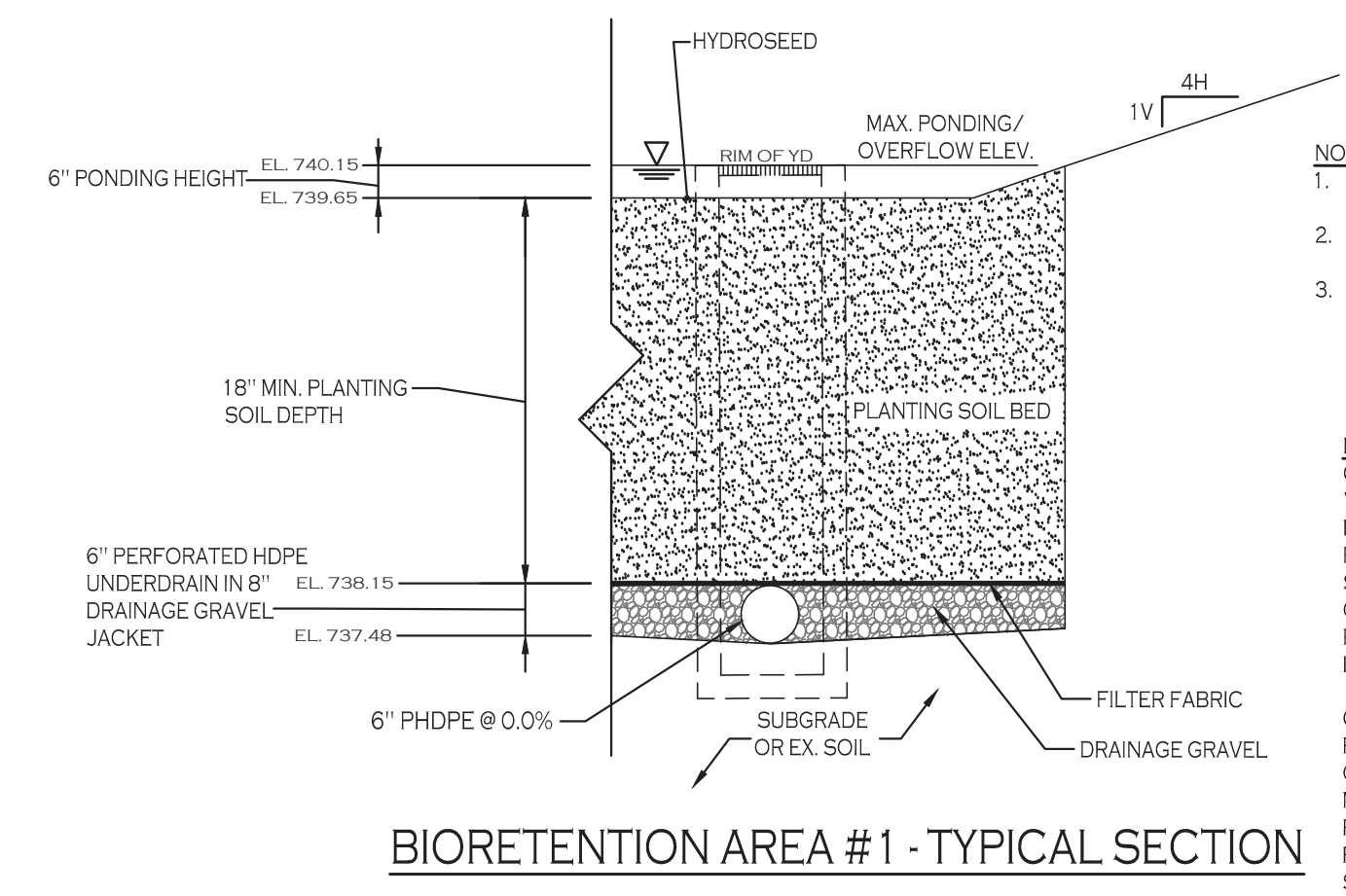
Issued for Construction: xx.xx.xx
 Municipality Submission: 4/15/21
 Drawn by: A. Pandolfie
 Scale: As Noted

DRAWING NAME:
Paving & Drainage Profiles

DRAWING NO.
C-303
 Project no.: 18.077

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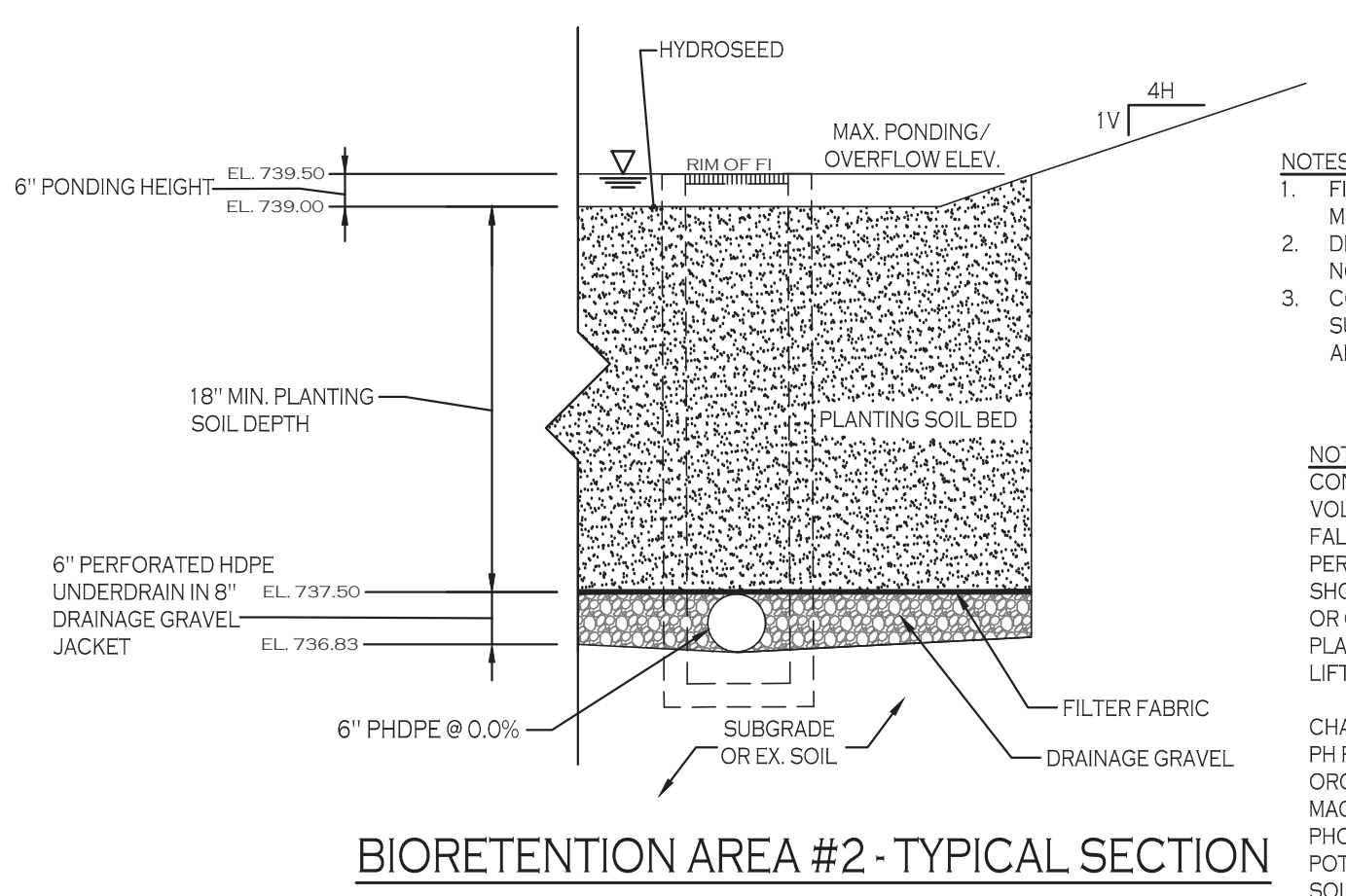
NOTES:
 1. FILTER FABRIC TO BE NON-WOVEN CLASS 'C', MIRAFI 180N OR APPROVED EQUIVALENT
 2. DRAINAGE GRAVEL TO MEET AASHTO M-43, NO. 67, SIZE 0.25" TO 0.75"
 3. CONTRACTOR TO PROVIDE PLANTING SOIL SUBMITTAL SPECIFICATION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

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%

BIO-RETENTION 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	ALOPECURIS ARUNDINACEUS	11.0
ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	4.5
DEERTONGUE	PANICUM CLANDESTINUM	4.5



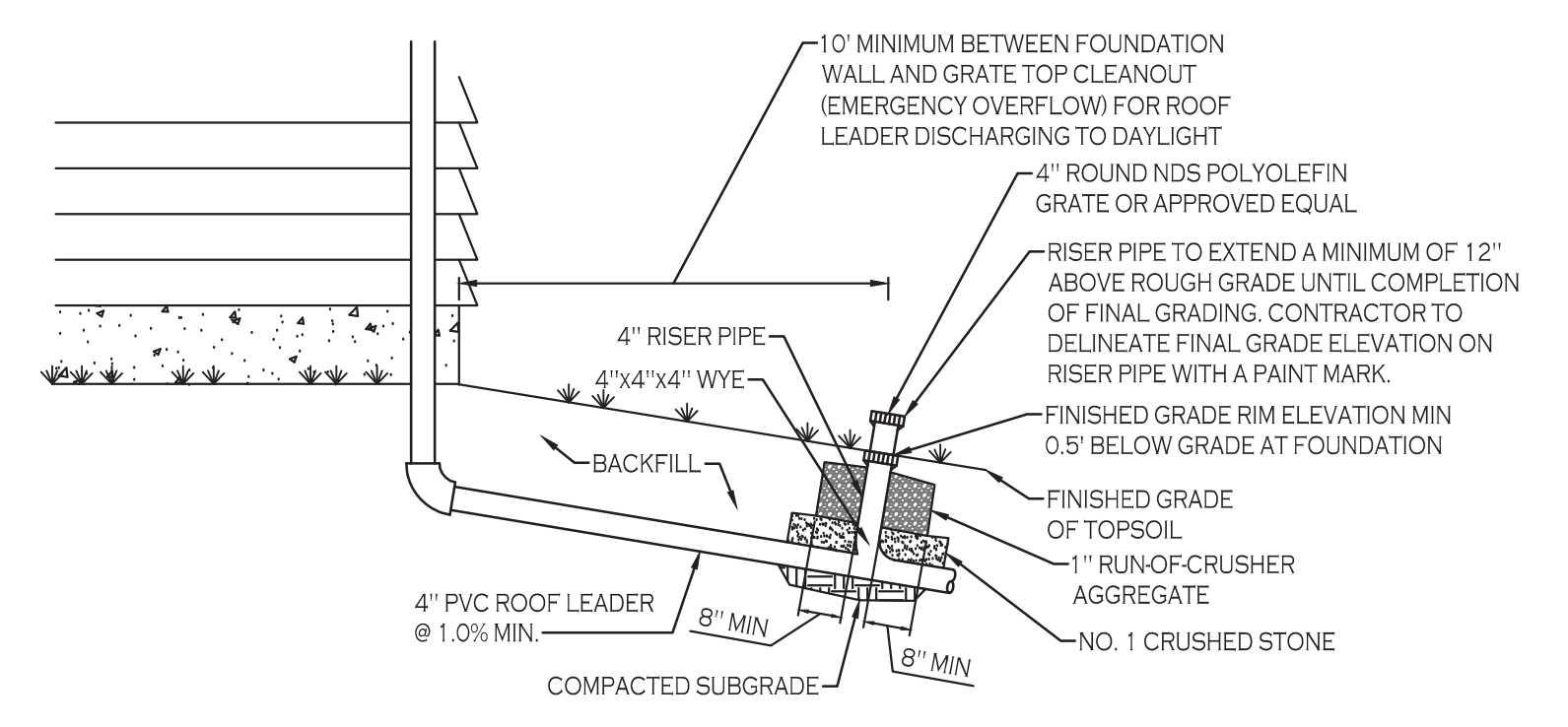
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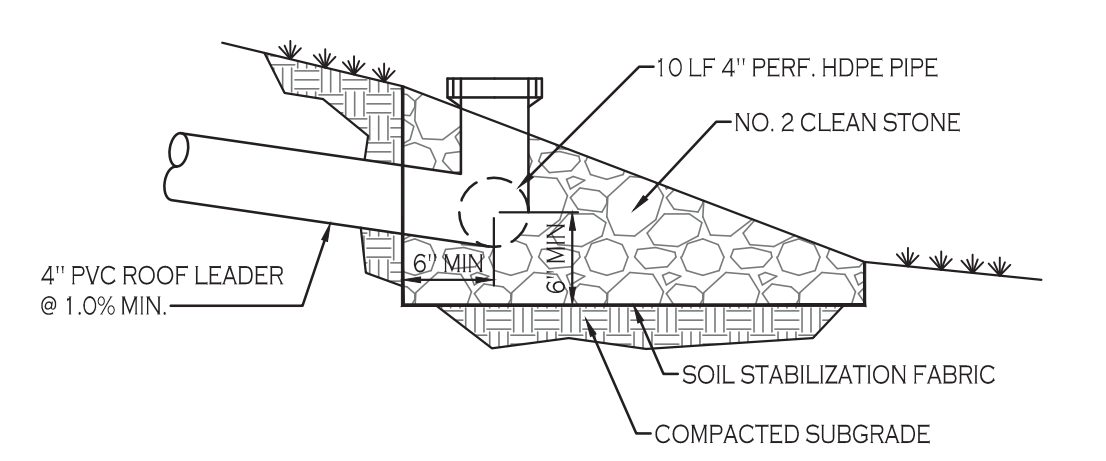
CHARACTERISTICS SHALL BE:
 PH RANGE: 5.2 - 7.00
 ORGANIC MATTER: 1.5 - 4.0%
 MAGNESIUM: 35 LBS PER ACRE MIN.
 PHOSPHORUS: 75 LBS PER ACRE MIN.
 POTASSIUM: 85 LBS PER ACRE MIN.
 SOLUBLE SALTS: 500 PPM
 CLAY: 10 TO 25%
 SILT: 30 TO 55%
 SAND: 35 TO 60%

BIO-RETENTION AREA SEEDING SPEC (NORTHEAST WETLAND GRASS SEED MIX):

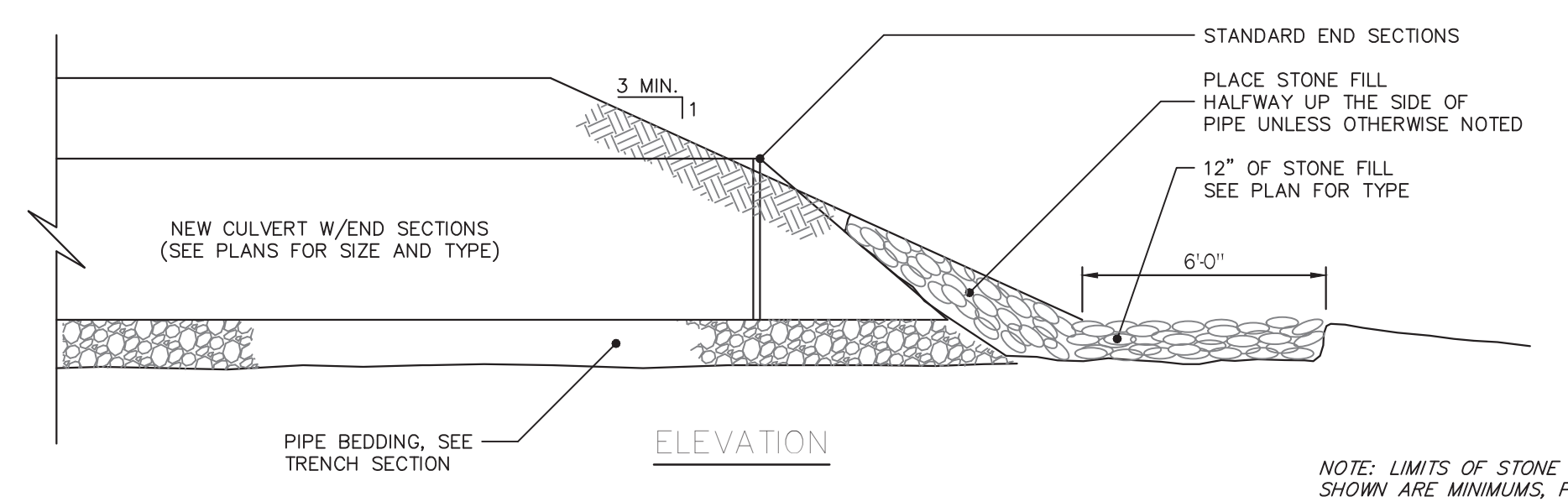
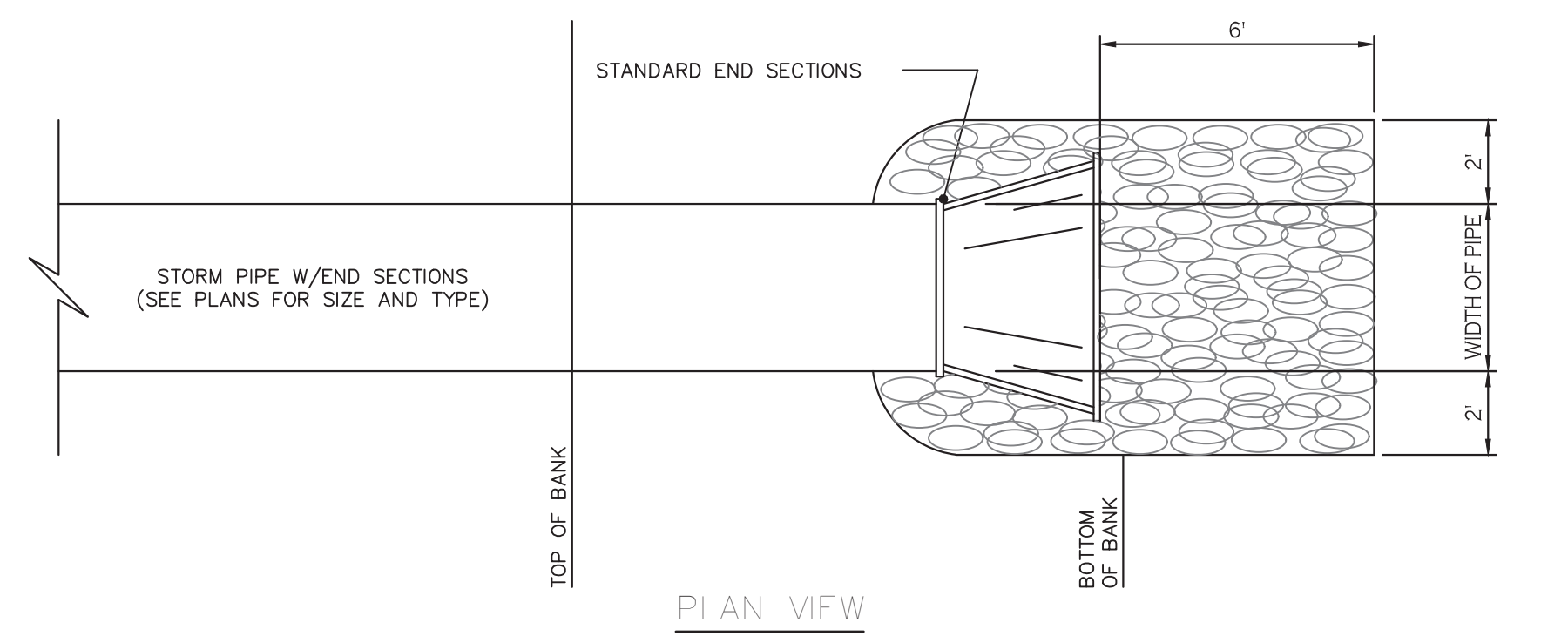
SEED MIXTURE	VARIETY	PERCENT BY NO. OF SEEDS
CREeping BENTGRASS	AGROSTIS STOLONIFERA	63.0
ROUGH BLUEGRASS	POA TRIVIALIS	17.0
MEADOW FOXTAIL	ALOPECURIS ARUNDINACEUS	11.0
ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	4.5
DEERTONGUE	PANICUM CLANDESTINUM	4.5



ROOF LEADER DOWNSPOUT DISCHARGE DETAIL
NOT TO SCALE



TYPICAL LEVEL SPREADER DETAIL
NOT TO SCALE



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



REVISIONS:

No.	Description	Date
1	Revised per Engineering comments	7/25/21

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

Issued for Construction: xx.xx.xx
 Municipality Submission: 4/15/21
 Drawn by: A. Pandolfie
 Scale: As Noted

DRAWING NAME:
 Storm Drainage
 Details

DRAWING NO.:
C-304
 Project no.: 18.077

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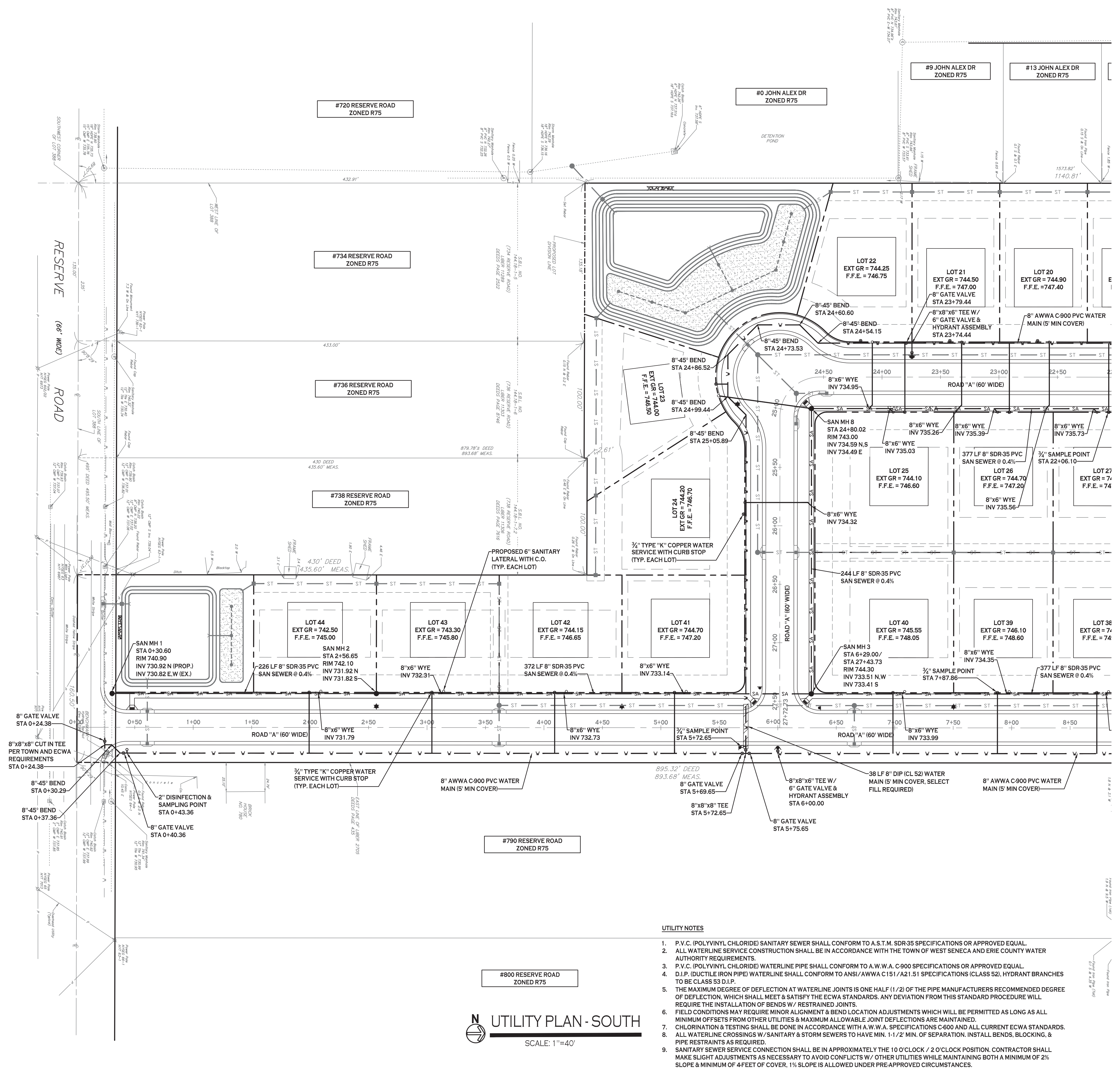
REVISIONS:	No.	Description	Date

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

Issued for Construction: xx.xx.xx
 Municipality Submission: 4/15/21
 Drawn by: A. Pandolfi
 Scale: As Noted

DRAWING NAME:
Utility Plan - South

DRAWING NO.
C-400
 Project no.: 18.077



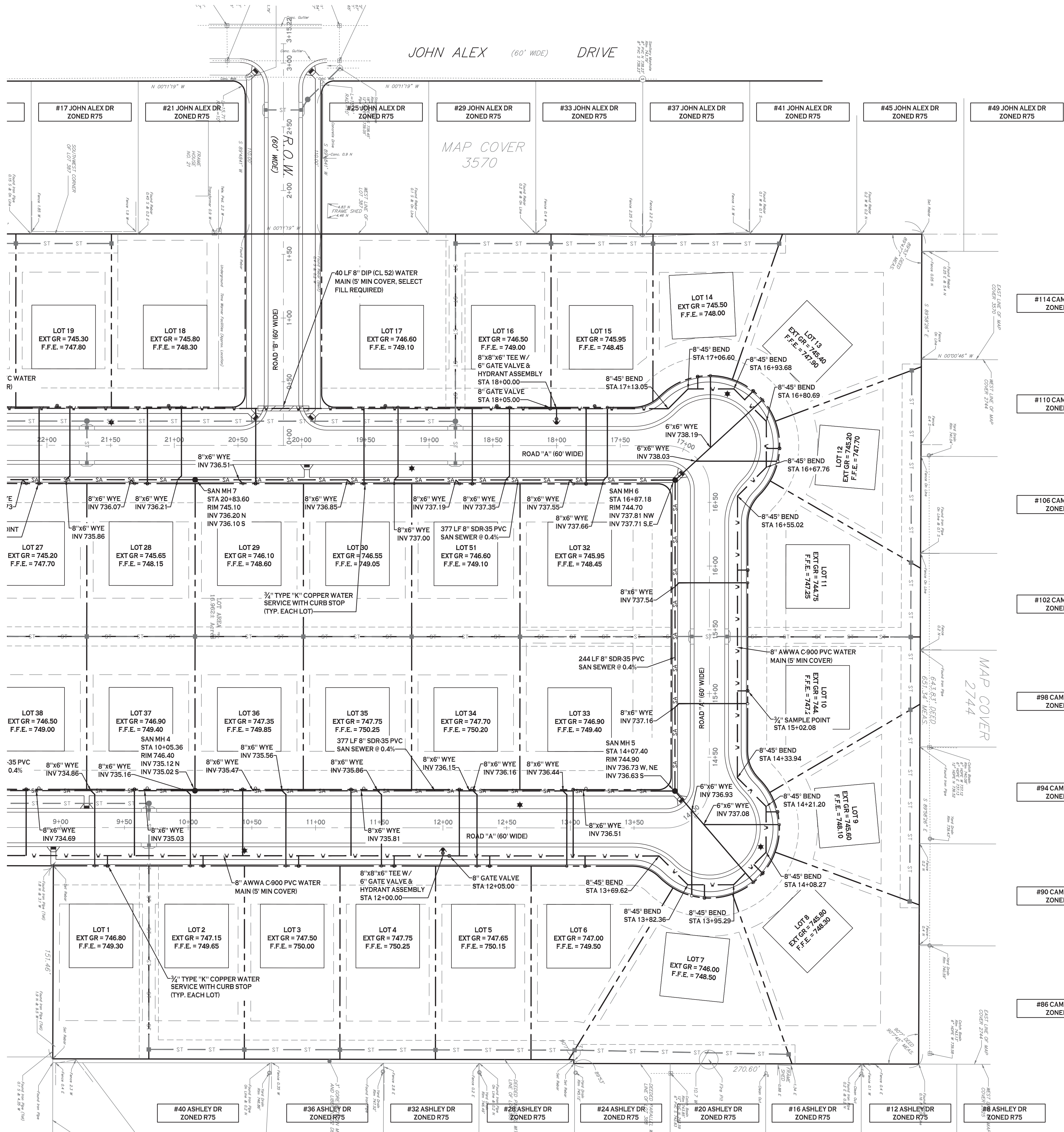
NOTE: FOR PROPOSED VALVE BOXES, CLEANOUTS, ETC., INSTALL A 3,000 PSI CONCRETE COLLAR AROUND THE ITEM AT GRADE. THE COLLAR SHALL BE A MINIMUM OF 6" WIDER ON ALL SIDES THAN THE BOX, CLEANOUT, ETC. THE COLLAR SHALL BE A MINIMUM OF 6" THICK.

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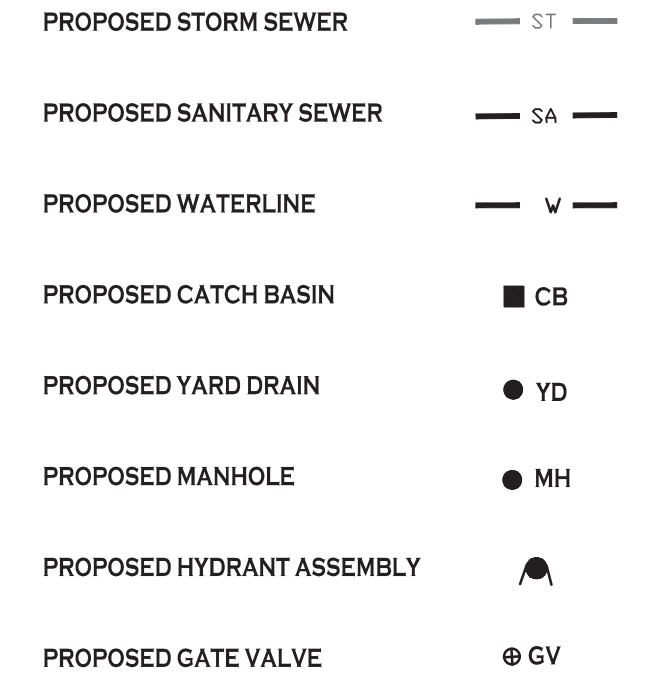
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UTILITY NOTES

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.
3. P.V.C. (POLYVINYL CHLORIDE) WATERLINE PIPE SHALL CONFORM TO A.W.W.A. C-900 SPECIFICATIONS OR APPROVED EQUAL.
4. 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.
5. 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.
6. 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.
7. CHLORINATION & TESTING SHALL BE DONE IN ACCORDANCE WITH A.W.A. SPECIFICATIONS C-600 AND ALL CURRENT ECWA STANDARDS.
8. ALL WATERLINE CROSSINGS W/ SANITARY & STORM SEWERS TO HAVE MIN. 1-1/2' MIN. OF SEPARATION, INSTALL BENDS, BLOCKING, & PIPE RESTRAINTS AS REQUIRED.
9. 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



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'



REVISIONS: No. Description Date

PROJECT NAME:

New Construction
Proposed Subdivision
Reserve Rd
West Seneca, New York

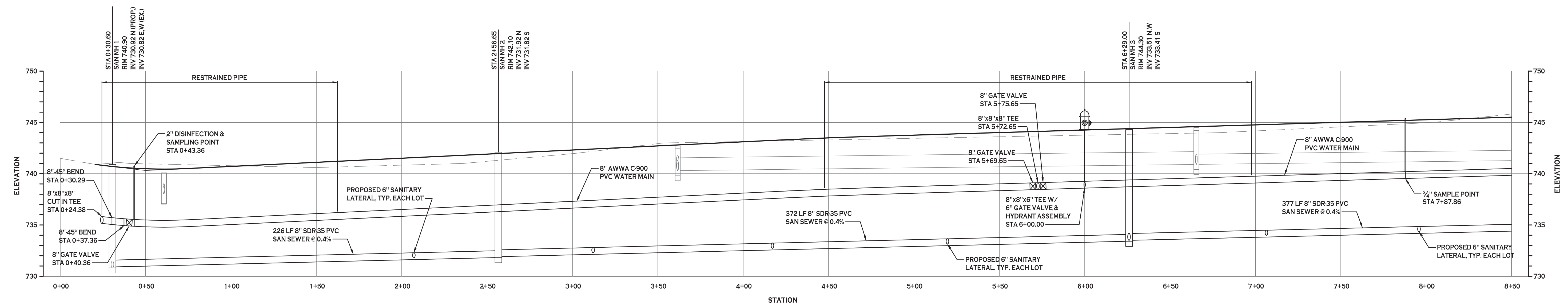
DRAWING NAME:
Utility Plan - North

DRAWING NO.
C-401
Project no.: 18.077

Issued for Construction: xx.xx.xx
Municipality Submission: 4/15/21
Drawn by: A. Pandolfi
Scale: As Noted

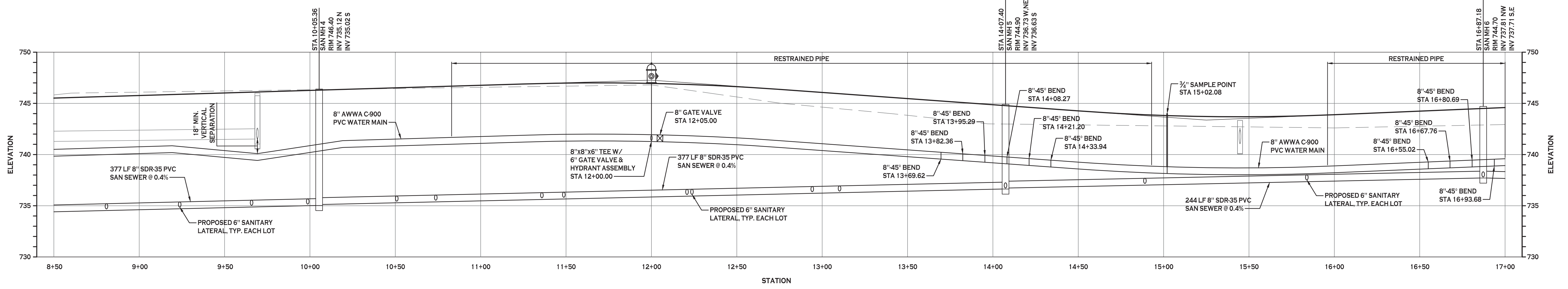
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UTILITY PROFILE ROAD "A" STA 0+00-8+50

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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Buffalo, New York 14203
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REVISIONS:	No.	Description	Date

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

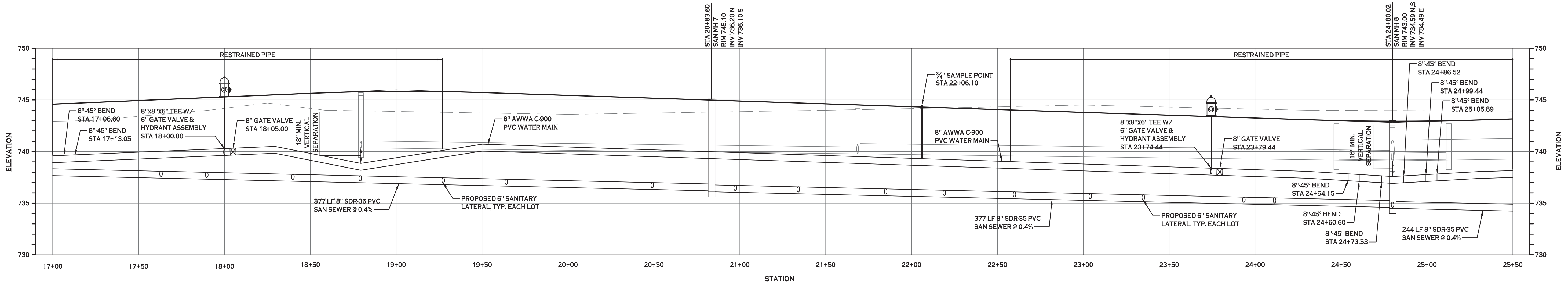
Issued for Construction: xx.xx.xx
Municipality Submission: 4/15/21
Drawn by: A. Pandolfie
Scale: As Noted

DRAWING NAME:
Utility Profiles

DRAWING NO.
C-402
Project no.: 18.077

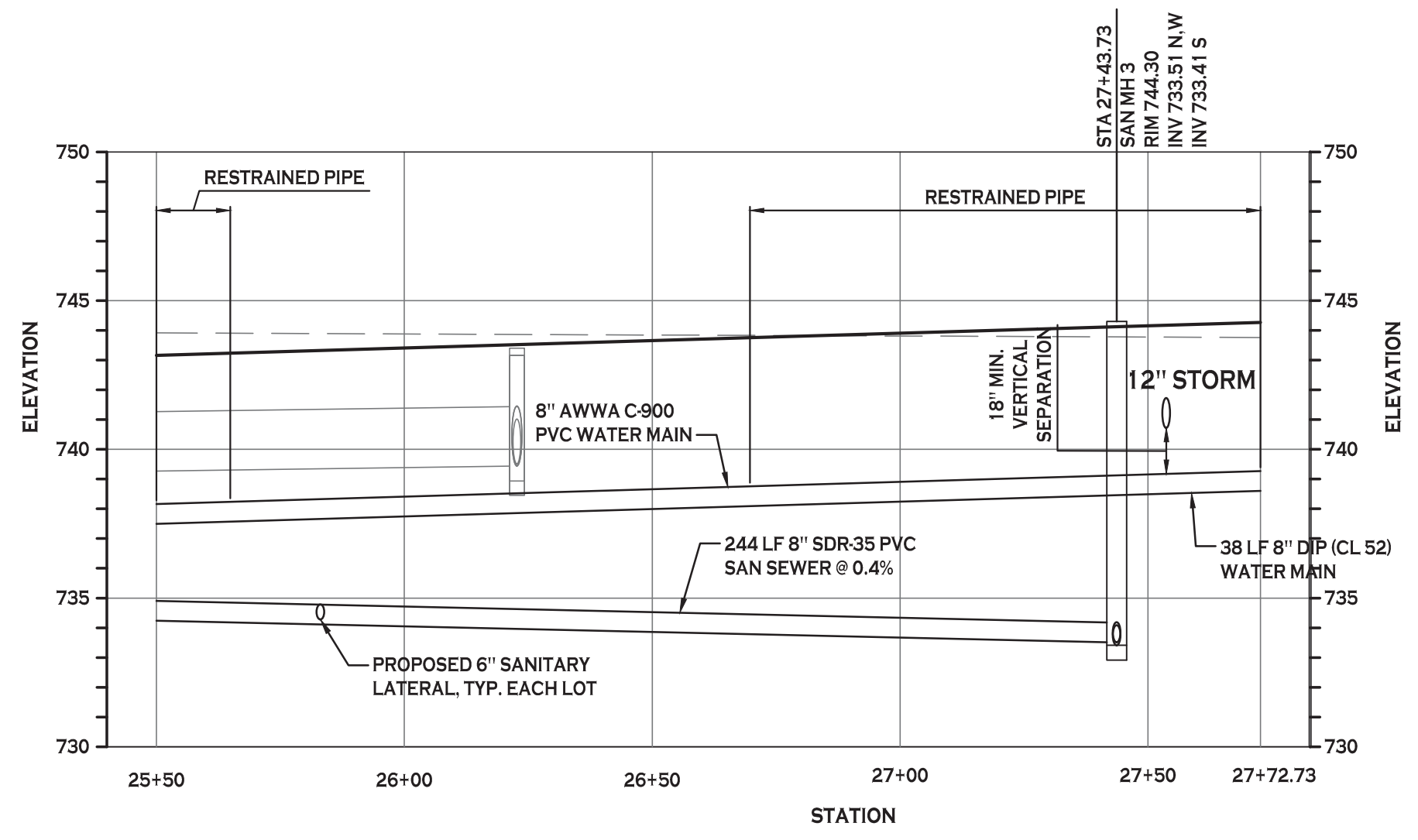
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UTILITY PROFILE ROAD "A" STA 17+00 - 25+50

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'



Carmina Wood Morris
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Buffalo, New York 14203
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F 716.842.0263



REVISIONS:

No.	Description	Date

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

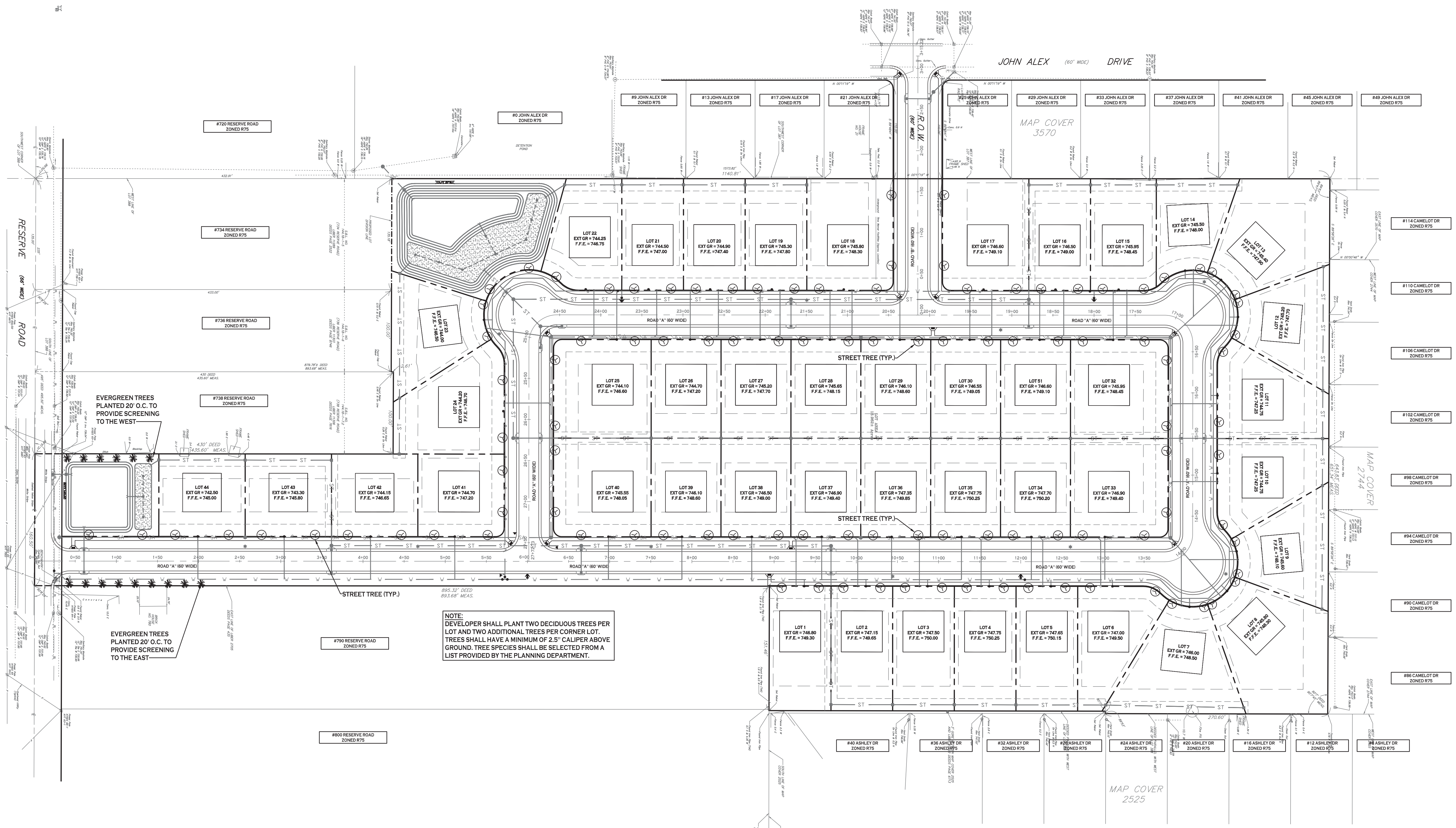
Issued for Construction: xx.xx.xx
Municipality Submission: 4/15/21
Drawn by: A. Pandolfie
Scale: As Noted

DRAWING NAME:
Utility Profiles

DRAWING NO.
C-403
Project no.: 18.077

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Carmina Wood Morris PC



LANDSCAPE PLAN
SCALE: 1"=60'

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



REVISIONS:

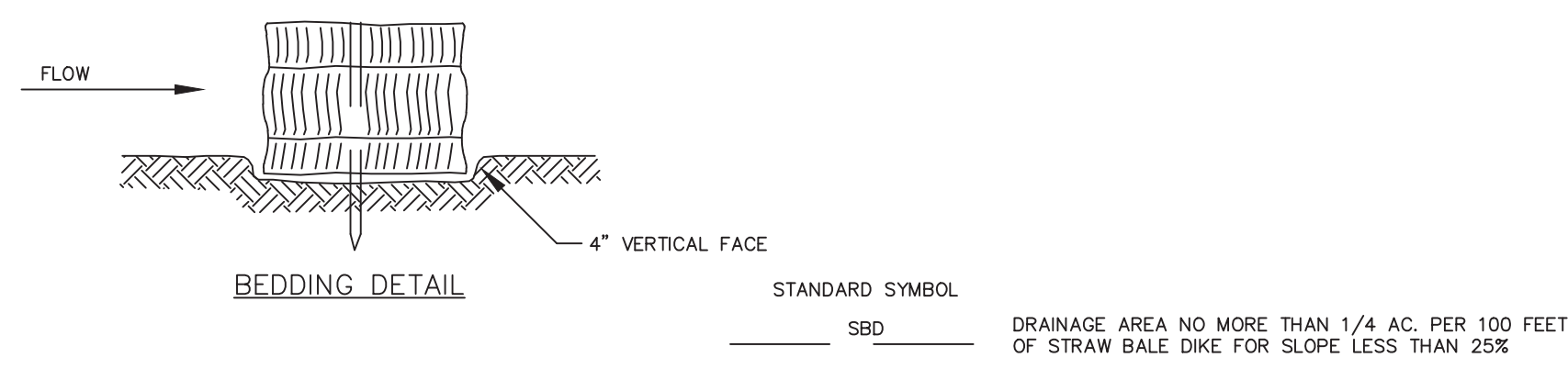
No.	Description	Date

PROJECT NAME:
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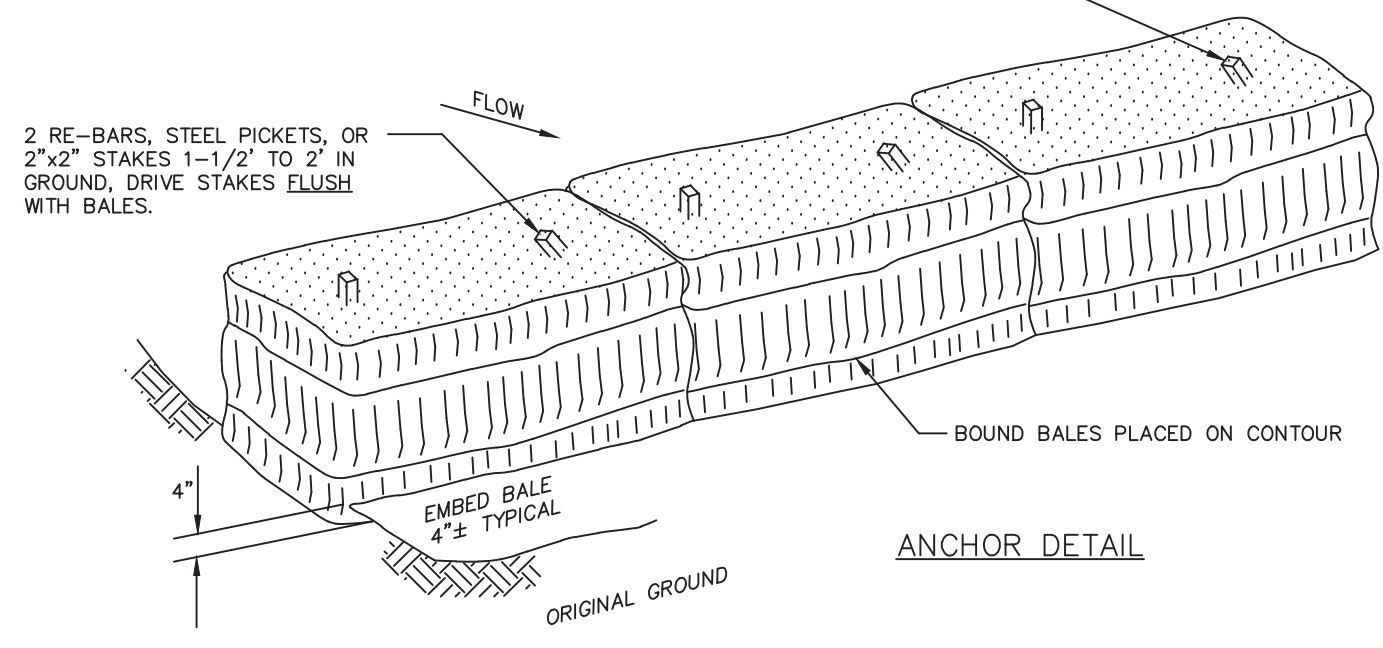
Issued for Construction: xx.xx.xx
Municipality Submission: 4/15/21
Drawn by: A. Pandolfie
Scale: As Noted

DRAWING NAME:
Landscape Plan

DRAWING NO.
L-100
Project no.: 18.077



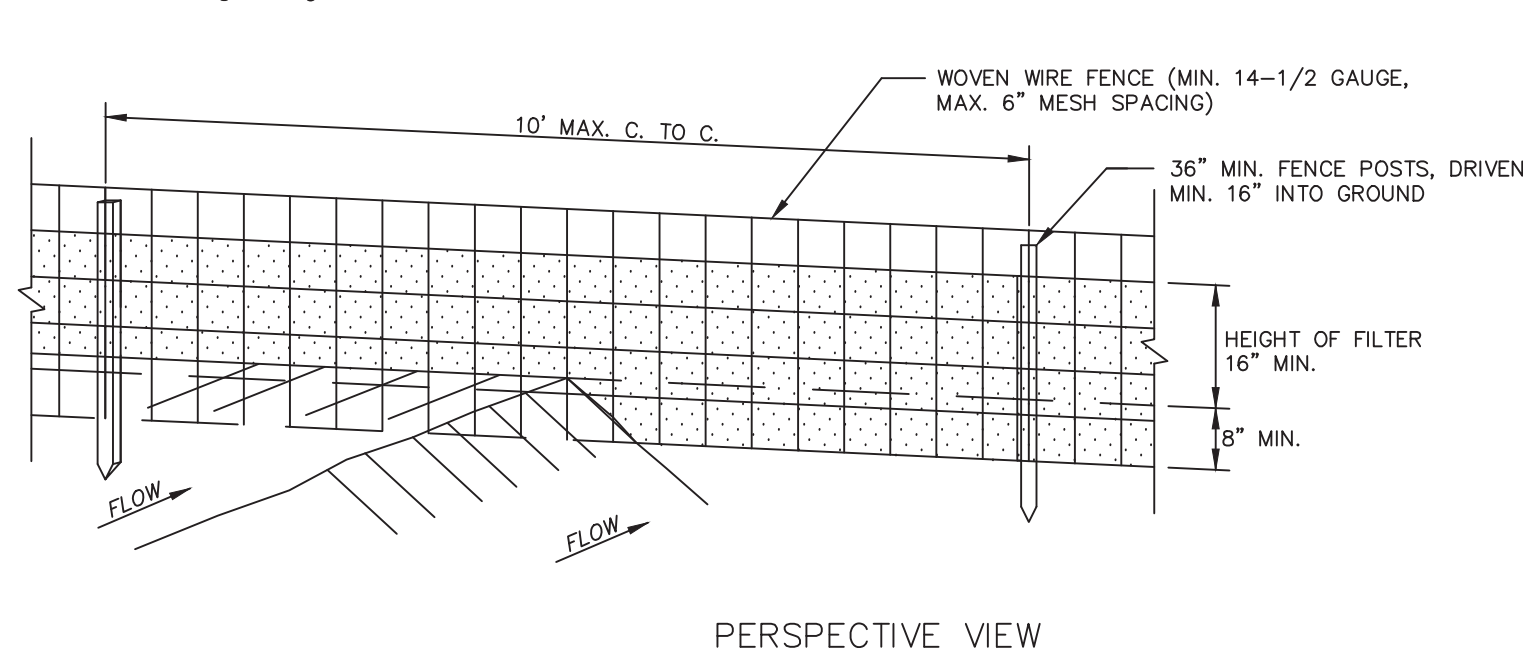
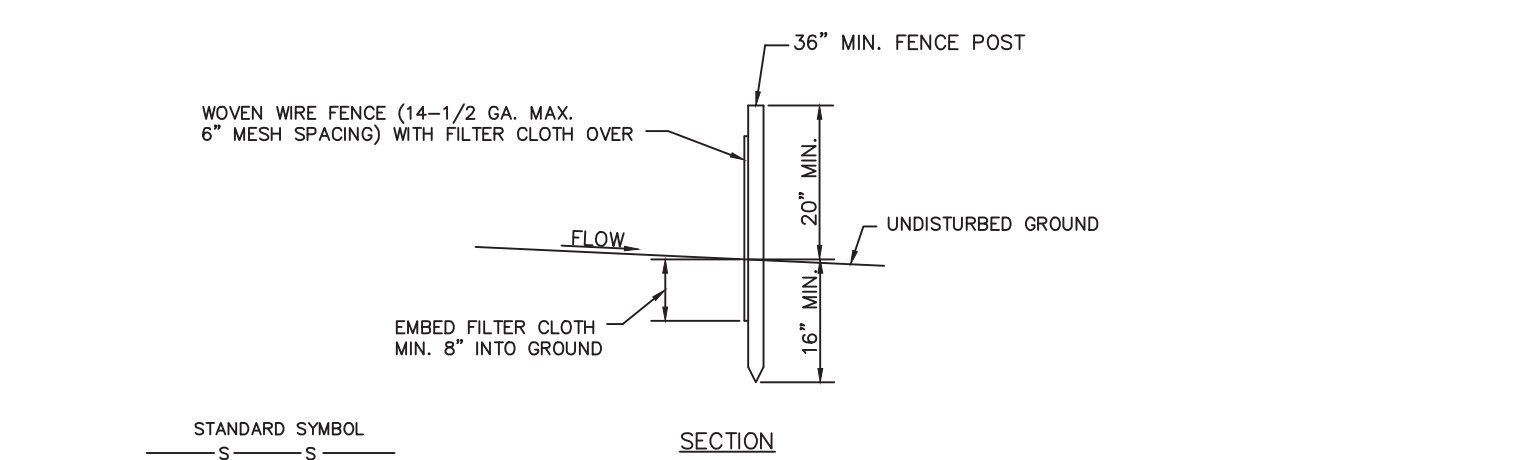
STANDARD SYMBOL
SBD
DRAINAGE AREA NO MORE THAN 1/4 AC. PER 100 FEET OF STRAW BALE DIKE FOR SLOPE LESS THAN 25%



CONSTRUCTION SPECIFICATIONS

- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF FOUR (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO (2) STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

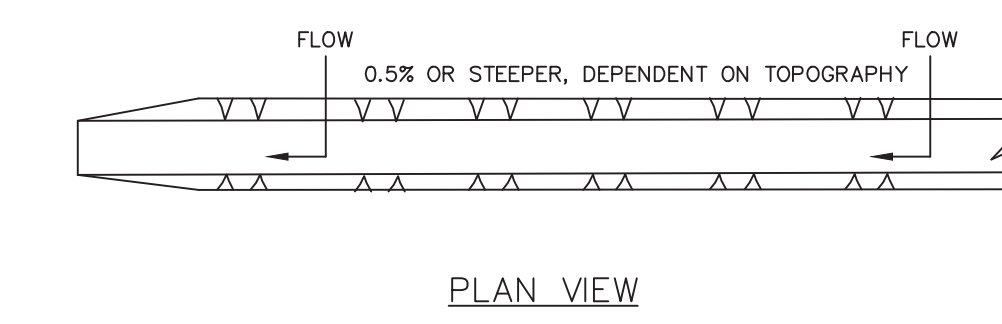
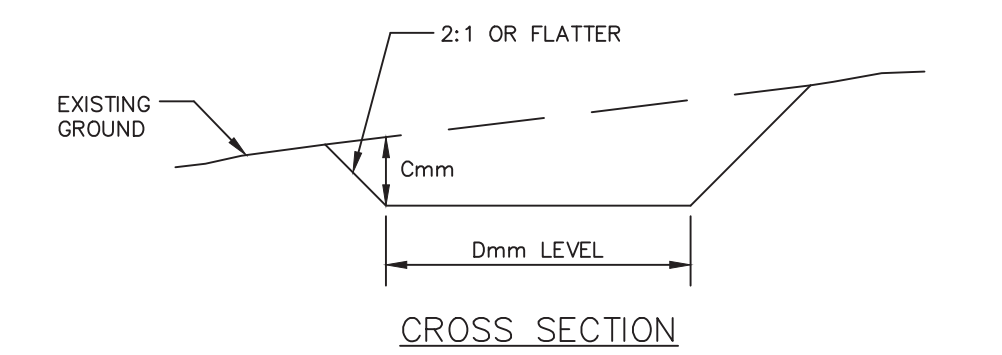
FIGURE 5A.8
STRAW BALE DIKE DETAILS (SBD)



CONSTRUCTION SPECIFICATIONS

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - WHEN TWO (2) SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX (6) INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- POSTS:
STEEL EITHER 1 OR U TYPE OR 2"x2" HARDWOOD.
- FENCE:
WOVEN WIRE, 14-1/2 GA. 6" MAX. MESH OPENING
- FILTER CLOTH:
FILTER X, MIRAFI 700X, STABILUNKA T140N OR APPROVED EQUAL
- PREFABRICATED UNIT:
GEOFAB, ENVROFENCE, OR APPROVED EQUAL

FIGURE 5A.9
SILT FENCE DETAILS (SF)



CONSTRUCTION SPECIFICATIONS

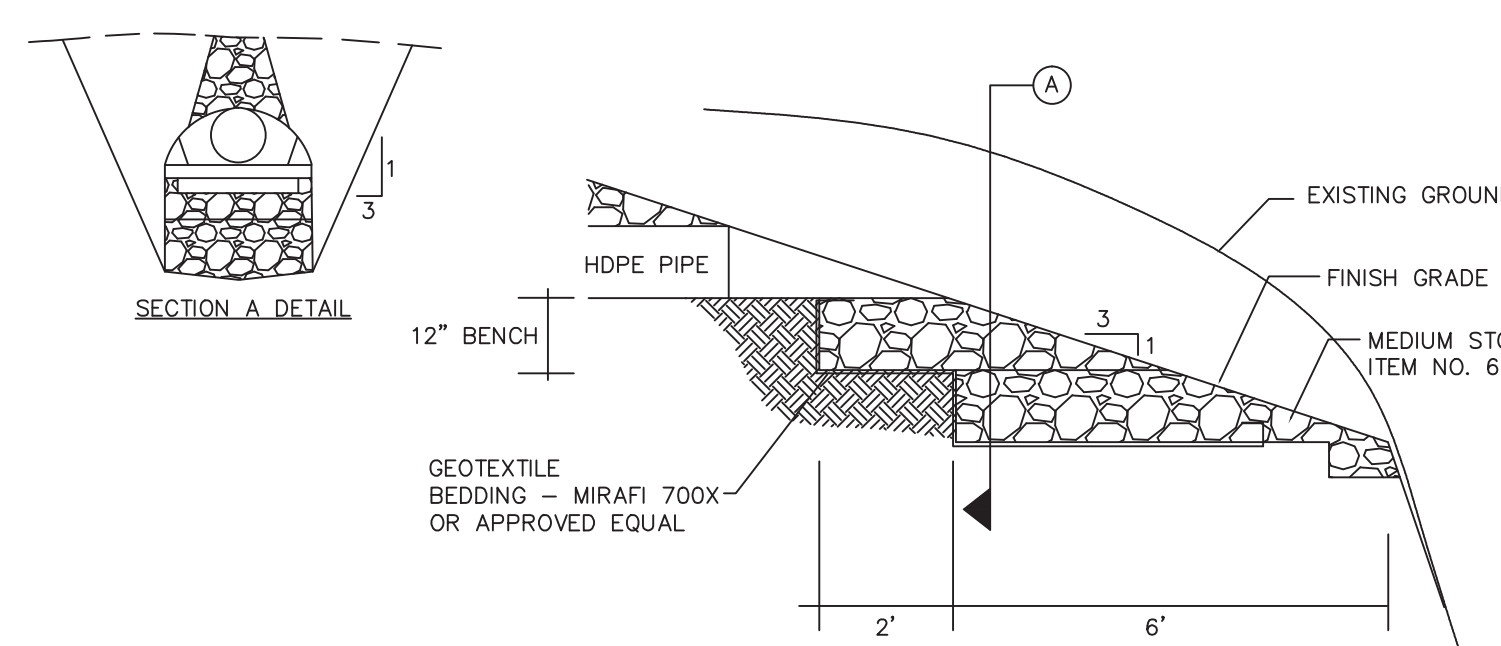
- ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
- DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
- DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSION VELOCITY.
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
- THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
- ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
- STABILIZATION SHALL BE AS PER THE CHART BELOW:

FLOW CHANNEL STABILIZATION

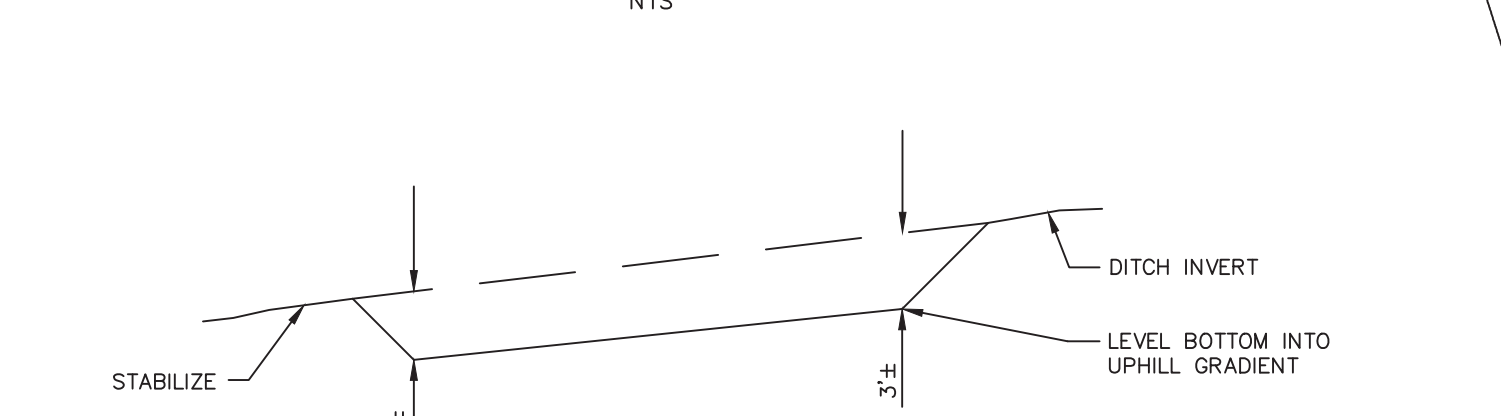
TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC OR LESS)	B (5 AC - 10AC)
1	0.5-3%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED WITH JUTE OR EXCELISOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELISOR, 500	LINED RIP-RAP 4-8" RECYCLED CONCRETE EQUIVALENT
4	8.1-20%	LINED 4-8" RIP-RAP	ENGINEERED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

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT

FIGURE 5A.2
TEMPORARY SWALE DETAIL

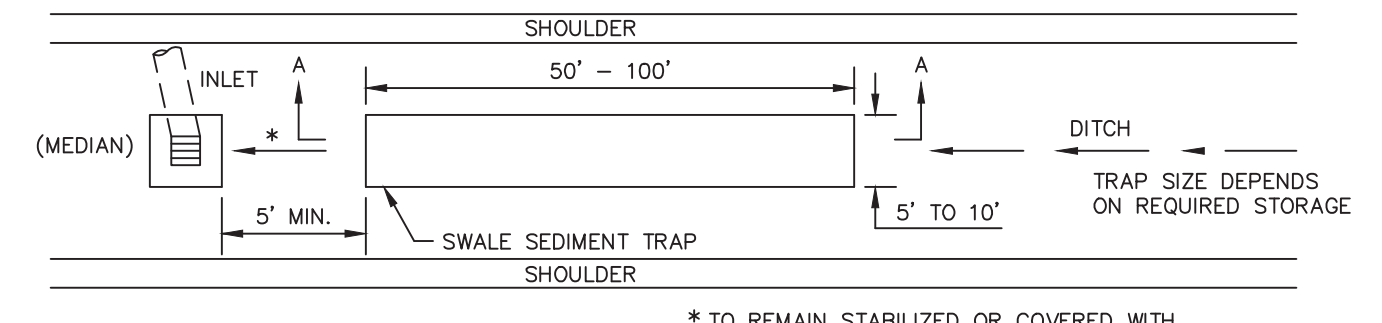


BENCHED RIP-RAP DETAIL



SECTION A-A

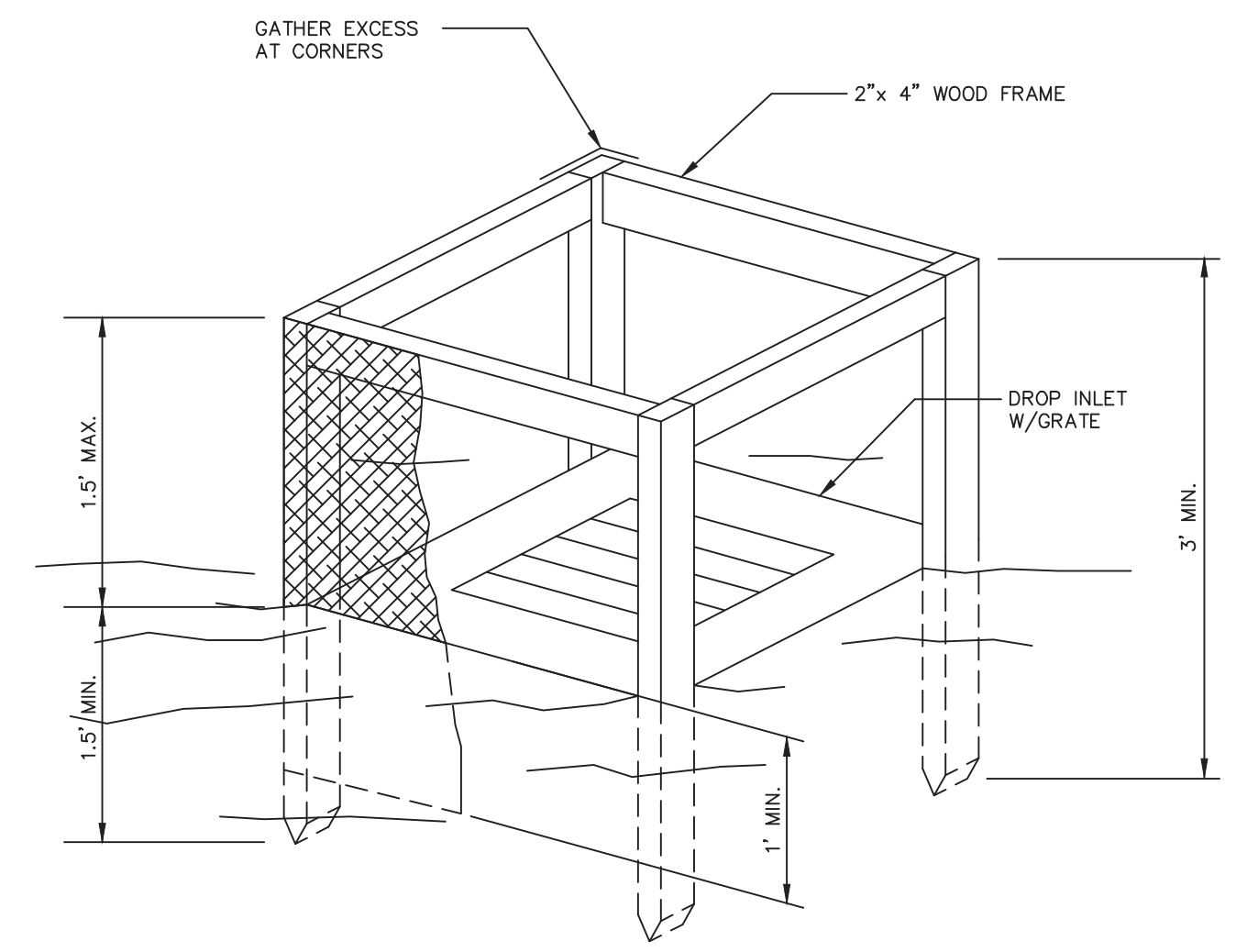
SWALE SEDIMENT TRAP



CONSTRUCTION SPECIFICATIONS

- THE SWALE SEDIMENT TRAP SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DIMENSIONS PROVIDED ON THE DESIGN DRAWINGS OR SIZED TO PROVIDE THE MINIMUM STORAGE NECESSARY; 1800 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
- SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN EVENT, AND REPAIRS MADE AS NEEDED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION SHALL BE MINIMIZED.
- THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE CONSTRUCTED DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- THE SWALE SEDIMENT TRAP WILL BE PROPERLY BACKFILLED AND THE SWALE OR DITCH RECONSTRUCTED.

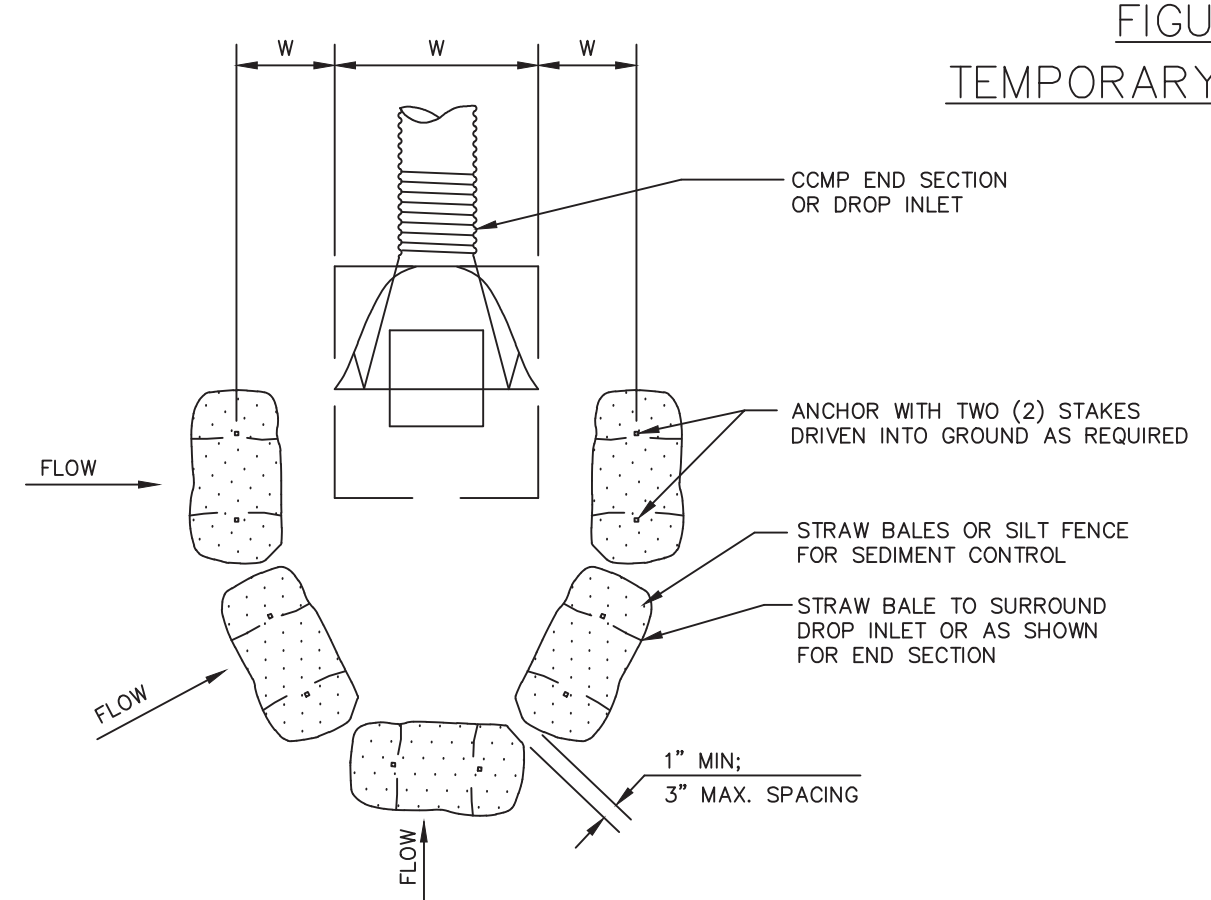
FIGURE 5A.20
SWALE OUTLET SEDIMENT TRAP: ST-1V



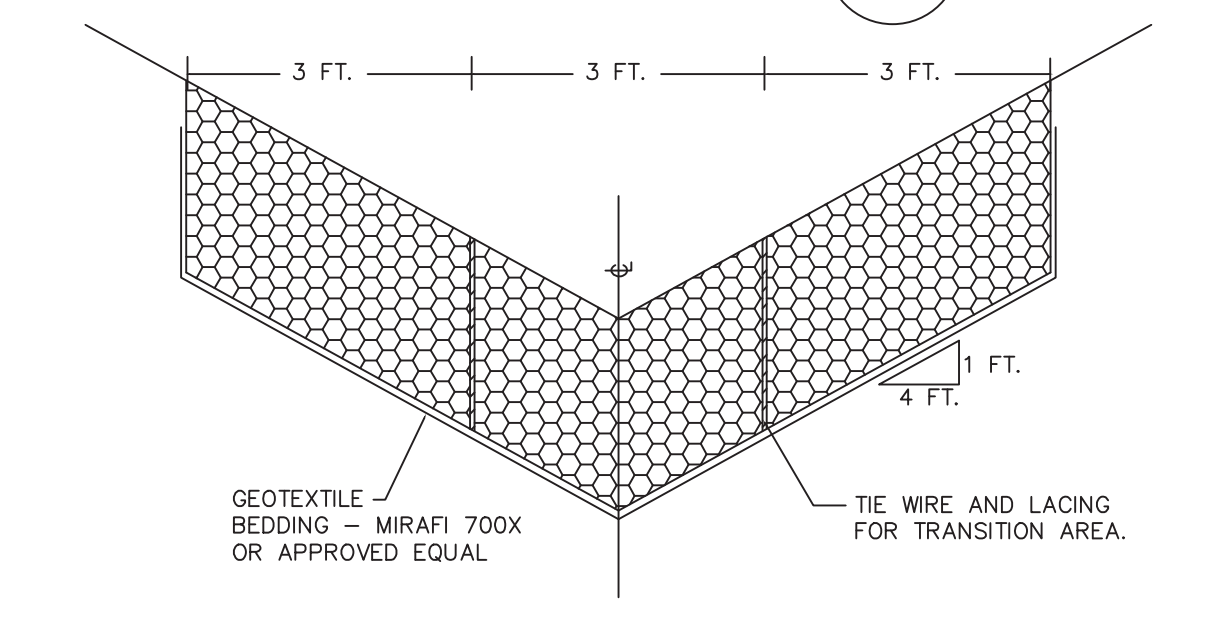
CONSTRUCTION SPECIFICATIONS

- FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
 - CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
 - STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
 - SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
 - FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
 - A 2"x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
- MAXIMUM DRAINAGE AREA 1 ACRE

FIGURE 5A.13
FILTER FABRIC DROP INLET PROTECTION DETAIL

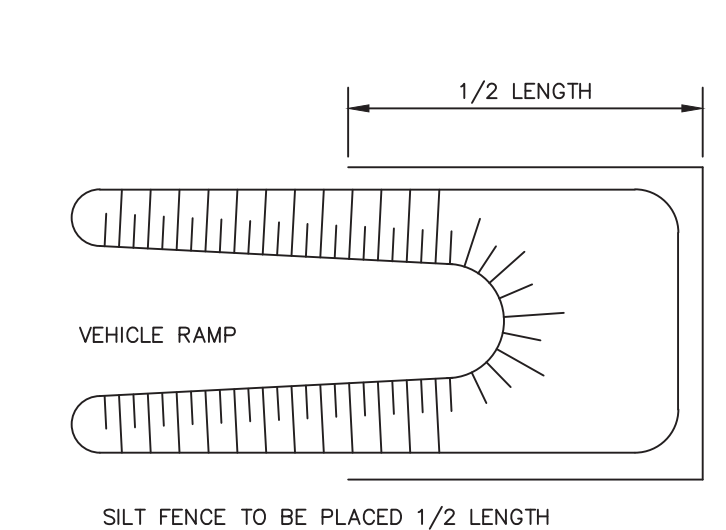


STORM INLET SEDIMENT TRAP (SIST)

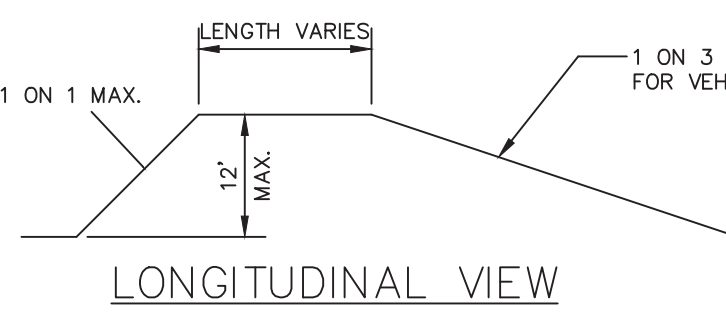


GABION BASKET - VELOCITY DISSIPATER DETAIL

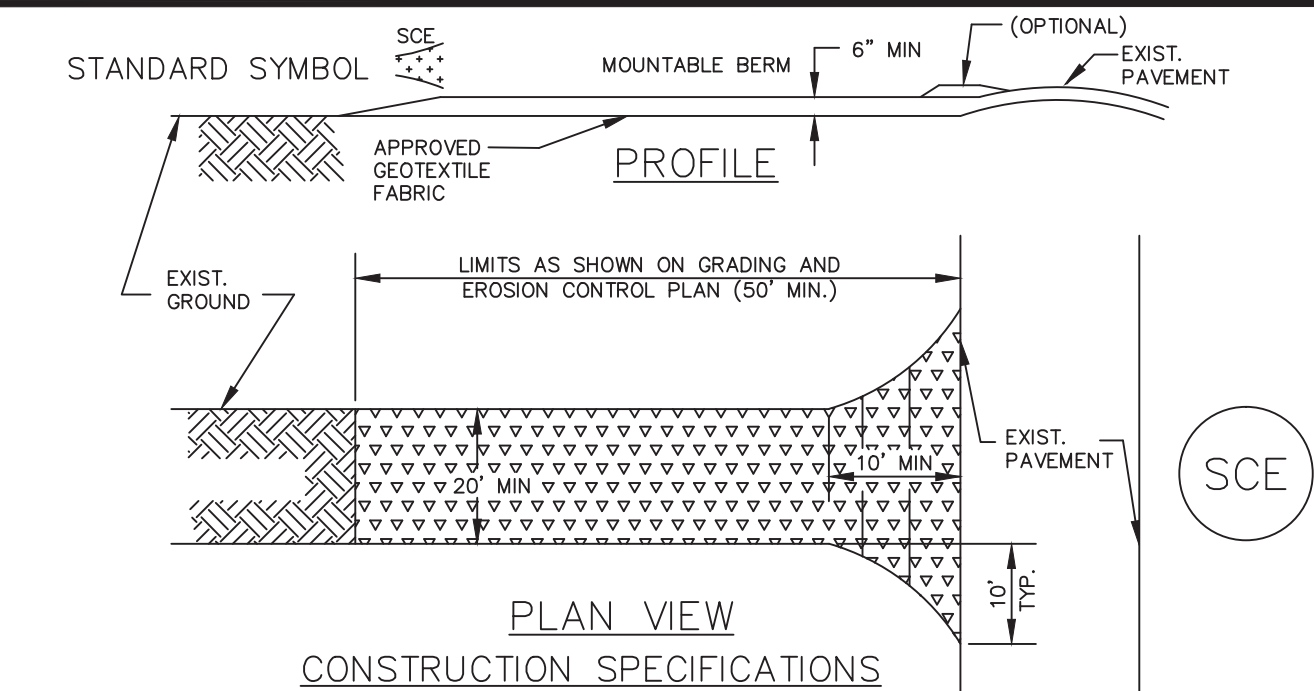
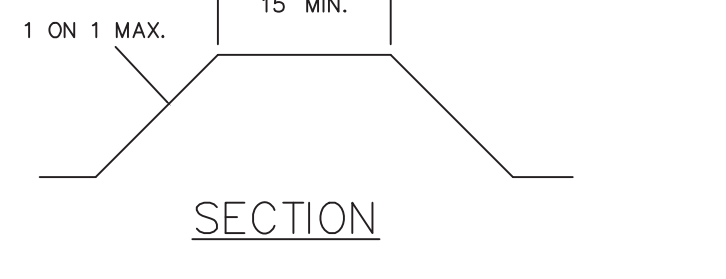
TOPSOIL STOCKPILE DETAILS



LONGITUDINAL VIEW



SECTION



CONSTRUCTION SPECIFICATIONS

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQ'D, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RES-DENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQ'D ON A SINGLE FAMILY RESIDENCE LOT.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 1:5 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE UNTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQ'D, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

FIGURE 5A.38
STABILIZED CONSTRUCTION ENTRANCE DETAILS

SEQUENCE OF CONSTRUCTION

- NOTIFY SEDIMENT CONTROL INSPECTOR 24 HOURS PRIOR TO START OF CONSTRUCTION.
- SURVEY AND STAKEOUT FOR CLEARING, STRIPPING AND EROSION CONTROL ACTIVITIES.
- PERFORM CLEARING, GRUBBING, STRIPPING AND SEDIMENT CONTROL AS PER TOWN REQUIREMENTS. NOTIFY SEDIMENT CONTROL INSPECTOR AND OBTAIN APPROVAL BEFORE PROCEEDING FURTHER.
- PERFORM THE NECESSARY WORK TO ENSURE PROPER SURFACE DRAINAGE WHILE MAINTAINING EROSION AND SEDIMENT CONTROL AS DEFINED BY TOWN SPECIFICATIONS AND DESIGN DRAWINGS. SITE PREPARATION AND CONSTRUCTION SHALL NOT ADVERSELY AFFECT THE FREE FLOW OF STORM RUNOFF OR WATER COURSES.
- PREPARATION OF RIGHT OF WAY SHALL INCLUDE ALL INFRASTRUCTURE CONSTRUCTION AS SHOWN ON THE APPROVED PLANS AND/OR AS DIRECTED BY THE TOWN ENGINEER. THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, PAVEMENT, SANITARY AND STORM SEWERS, WATERLINES AND VARIOUS UNDERGROUND FACILITIES.
- UPON COMPLETION OF PAVEMENT AND UTILITY INSTALLATION, RESTORATION WITHIN THE RIGHT OF WAY SHALL COMMENCE. THIS WORK WILL CONSIST OF THE RESTORATION OF ALL RIGHT OF WAY AREAS DISTURBED DURING CONSTRUCTION PLUS ANY AREA OUTSIDE OF THE RIGHT OF WAY THAT WAS DISTURBED DURING THE COURSE OF CONSTRUCTION. SUCH WORK SHALL BE APPROVED, IN WRITING, BY THE TOWN ENGINEER BEFORE ANY INDIVIDUAL SUBLOT CAN BE BUILT OR DEVELOPED.
- AFTER RECEIVING WRITTEN APPROVAL, INDIVIDUAL SUBLOTS CAN BE DEVELOPED. THE WORK SHALL INCLUDE BUILDING CONSTRUCTION, UTILITY SERVICE INSTALLATION, GRADING, LANDSCAPING AND THE CONTINUOUS PROCESS OF EROSION AND SEDIMENT CONTROL.
- EROSION AND SEDIMENT CONTROL ARE TO BE REMOVED AS THEIR USEFULNESS DIMINISH. AT ALL INSTANCES, NOTIFY THE SEDIMENT CONTROL INSPECTOR AND OBTAIN WRITTEN APPROVAL, BEFORE REMOVAL OF ANY EROSION AND SEDIMENT CONTROL DEVICE OR MECHANISM.

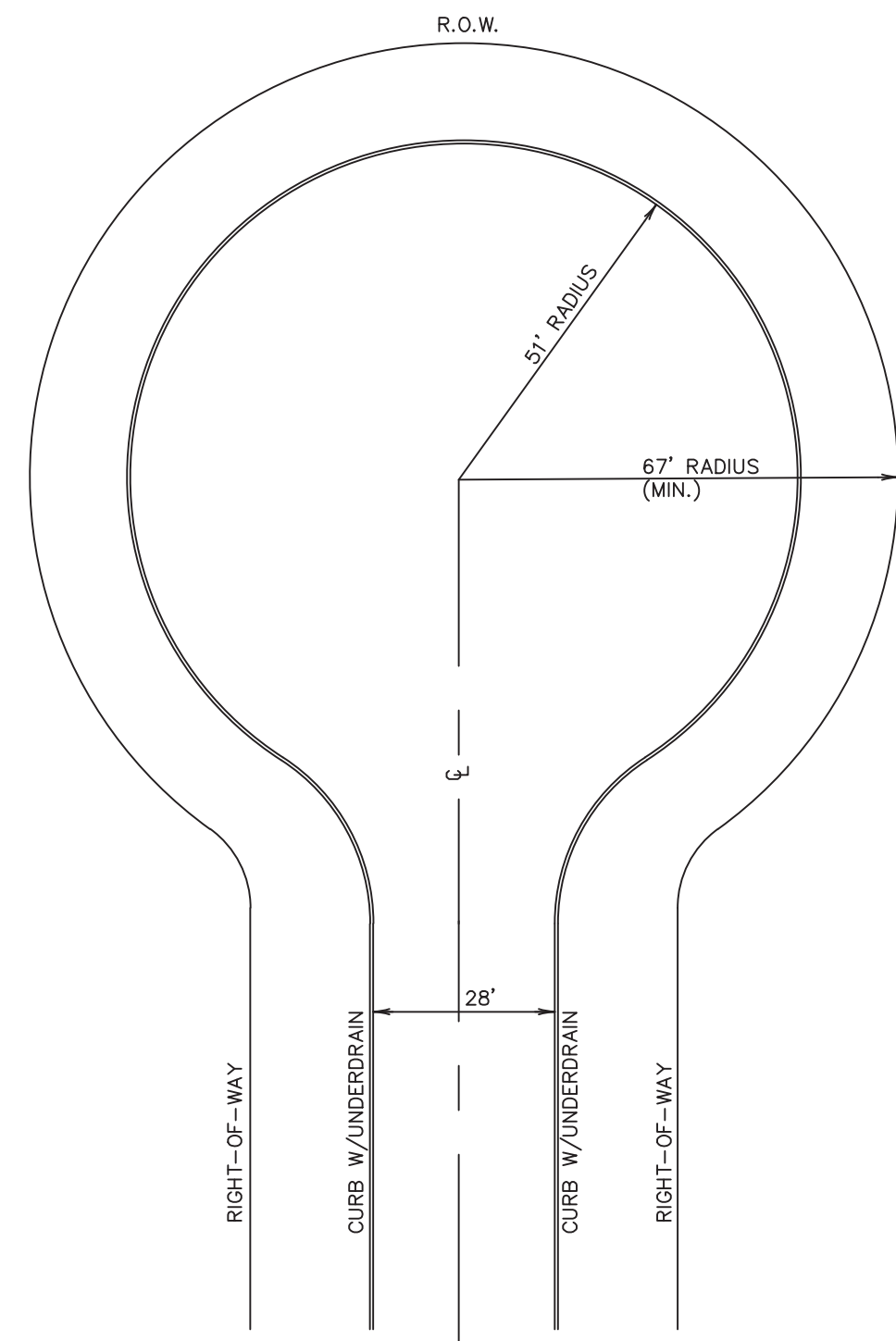
SEDIMENT AND EROSION CONTROL NOTES:

- ALL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH ALL REQUIREMENTS OF STATE AND TOWN OF WEST SENECA SOIL EROSION CONTROL AND CONSERVATION AUTHORITIES.
- ALL DISTURBED AREAS TO BE SEED WITHIN 14 DAYS OF INITIAL GRADING. FOR TEMPORARY SEEDING SPECIFICATIONS, SEE NOTES ON THIS SHEET.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO THE INITIATION OF GRADING, AND/OR EXCAVATION.
- ALL EARTH BERMS AND SEDIMENT DAMS ARE TO BE MULCHED AND SEED WITHIN 7 DAYS AFTER GRADING. ALL SOIL STOCKPILES ARE TO BE MULCHED AND SEED WITHIN 14 DAYS.
- DURING CONSTRUCTION, ALL SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED AFTER EACH RAINFALL AND REPAIRED IF NECESSARY. SEDIMENT TO BE REMOVED TO A SUITABLE DISPOSAL AREA AND STABILIZED WITH PERMANENT VEGETATIVE COVER.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SEDIMENT AND CONTROL MEASURES UNTIL DISTURBED AREAS ARE STABILIZED.
- AFTER FINE GRADING, ALL DISTURBED AREAS ARE TO BE PERMANENTLY MULCHED AND SEED.
- NO SLOPE SHALL BE GREATER THAN 1:3
- TOPSOIL MAY NOT BE REMOVED FROM THE WORK SITE WITHOUT A PERMIT FROM THE TOWN OF WEST SENECA.
- FOLLOWING INITIAL SOIL DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. THIS DOES NOT APPLY TO THOSE AREAS WHICH ARE CURRENTLY BEING USED FOR MATERIAL STORAGE OR FOR THOSE AREAS ON WHICH ACTUAL CONSTRUCTION ACTIVITIES ARE CURRENTLY BEING PERFORMED. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE THAT STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF GOVERNING AUTHORITIES.
- ALL TOWN OF WEST SENECA CONSTRUCTION SPECIFICATIONS SHALL APPLY. NO DEVIATIONS FROM THE SPECIFICATIONS WILL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE TOWN ENGINEER.
- TEMPORARY SEEDING MIXTURE: ANNUAL RYE GRASS OR WINTER RYE IF PLANTED DURING OCTOBER/NOVEMBER. FOR PERMANENT SEEDING REFER TO TABLE IN MANUAL ENTITLED "NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL".

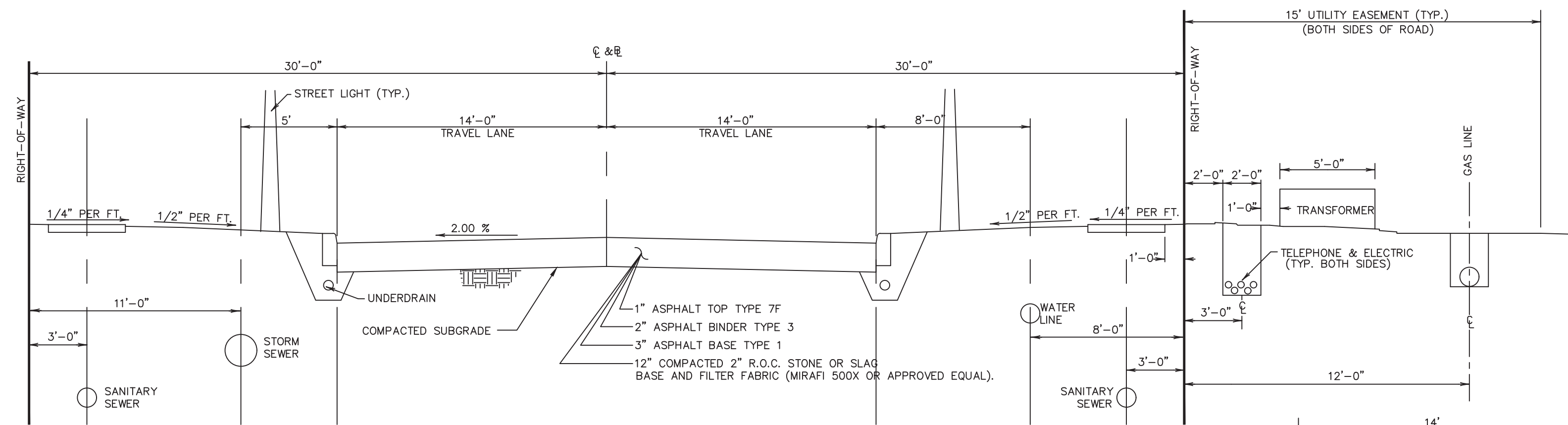
WEST SENECA ENGINEERING DEPARTMENT
1250 UNION ROAD, WEST SENECA, N.Y. 14224
PHONE : 674-5600

EROSION AND SEDIMENT CONTROL DETAILS

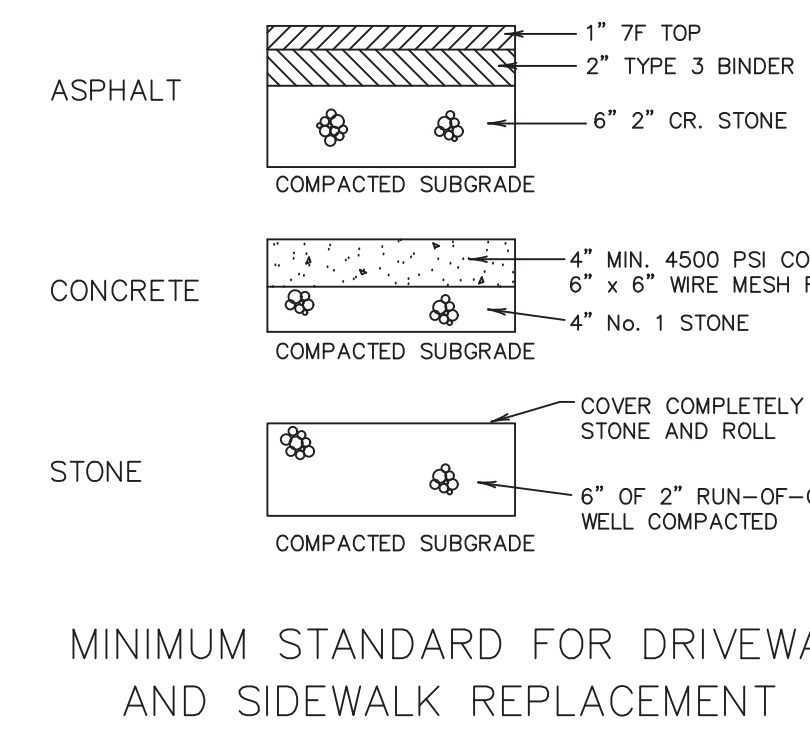
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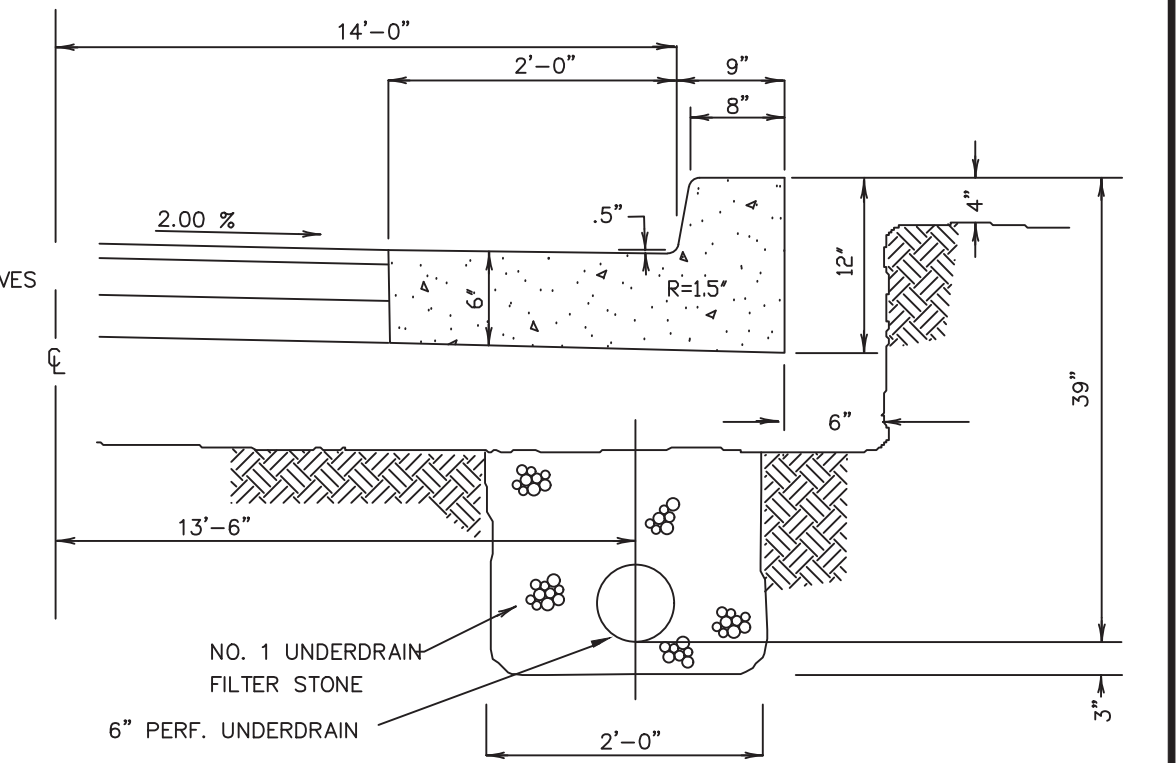
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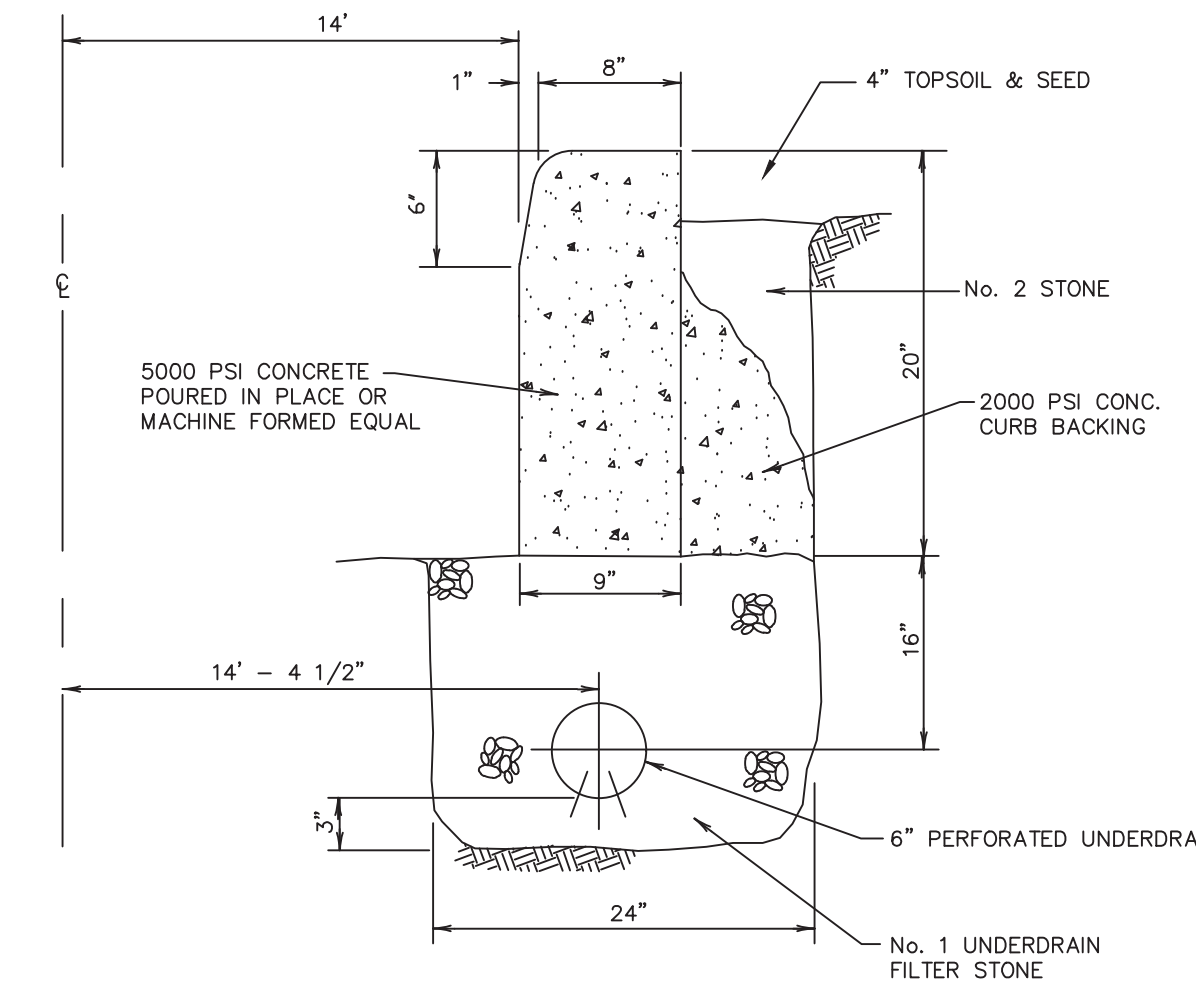
TYPICAL 60' WIDE R.O.W.



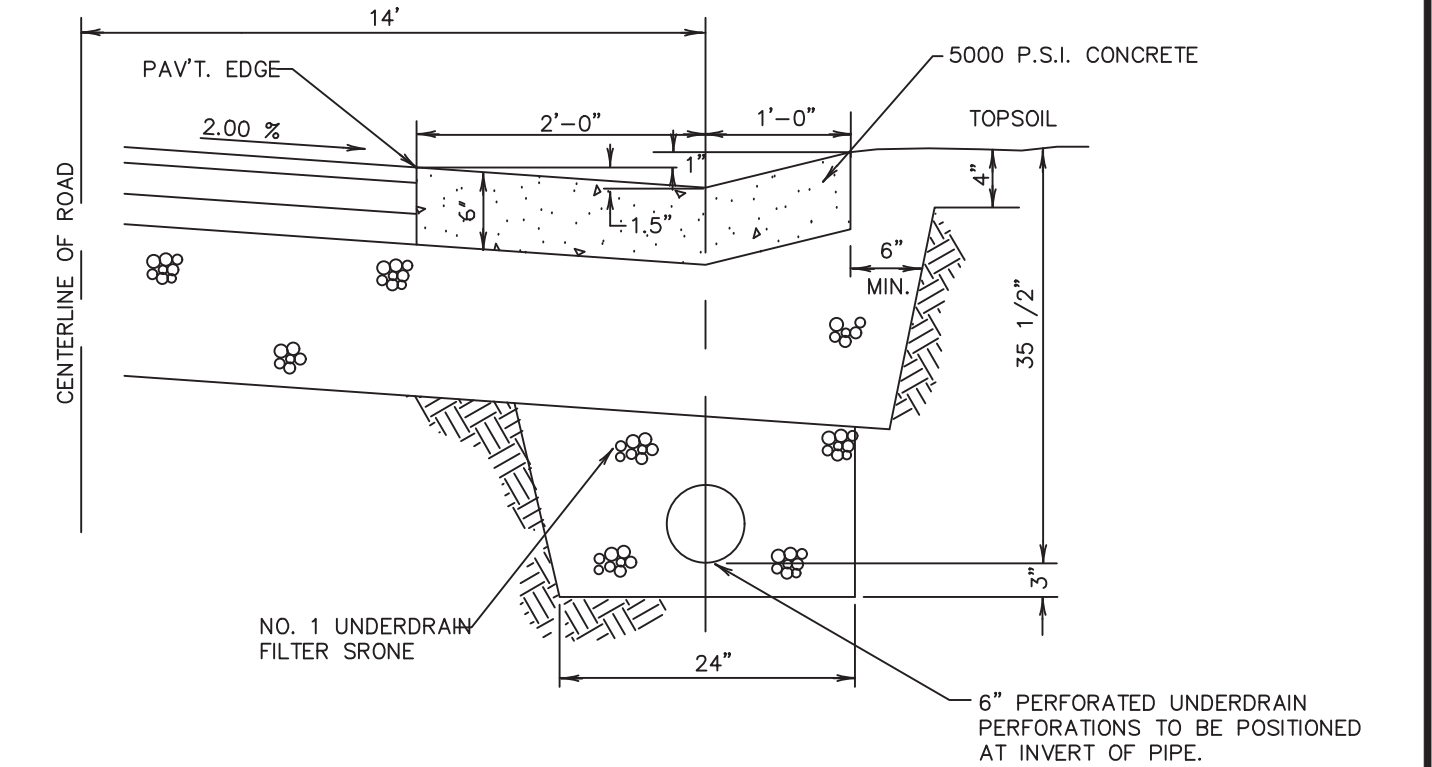
MINIMUM STANDARD FOR DRIVEWAY AND SIDEWALK REPLACEMENT



TYPE "BB" CURB & GUTTER

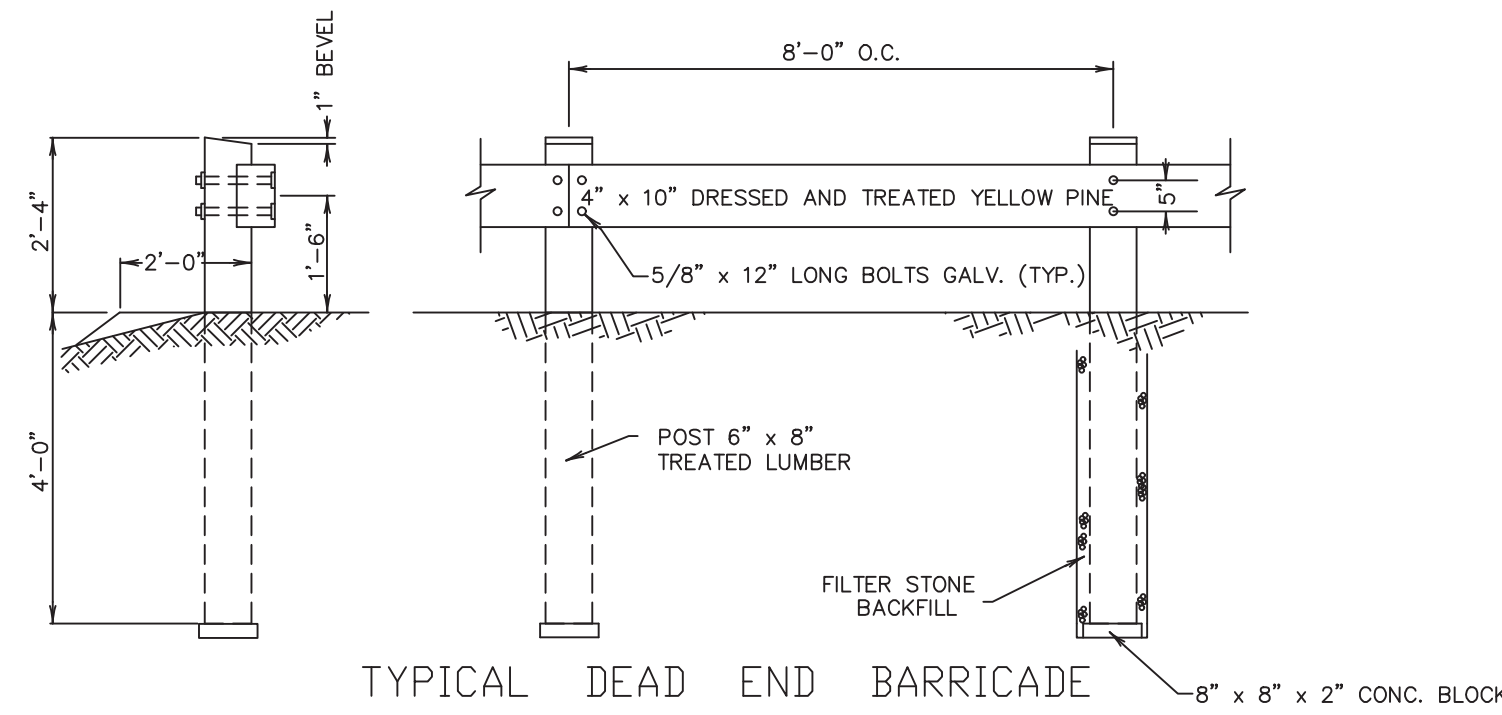


TYPE "BB" CURB



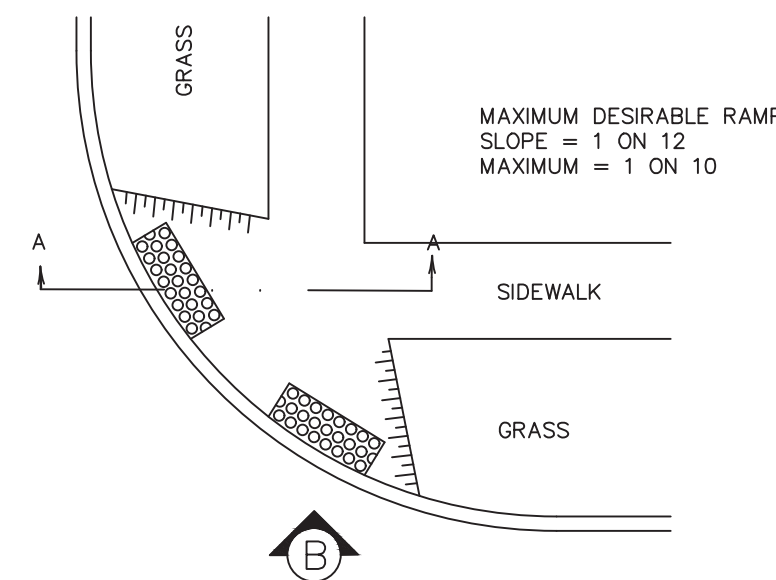
TYPE "BB" GUTTER

CURB AND GUTTER DETAILS

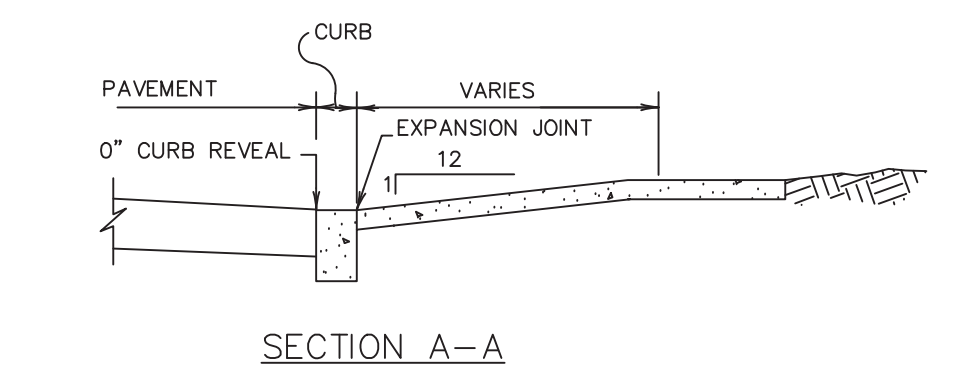


TYPICAL DEAD END BARRICADE

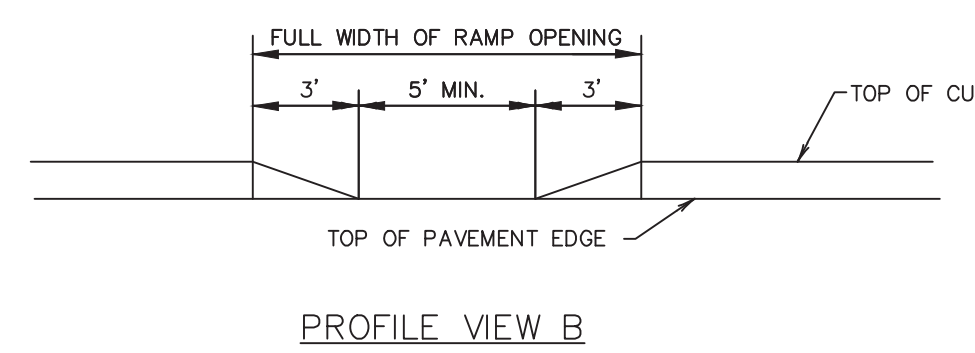
- NOTES:
 1. BARRICADE SHALL BE APPROXIMATELY 6 FEET BEHIND EDGE OF PAVEMENT.
 2. THE WOOD POSTS SHALL BE OF SOUND AND CLEAR SEASONED YELLOW PINE. ALL WOOD SHALL BE TREATED LUMBER.



PLAN VIEW

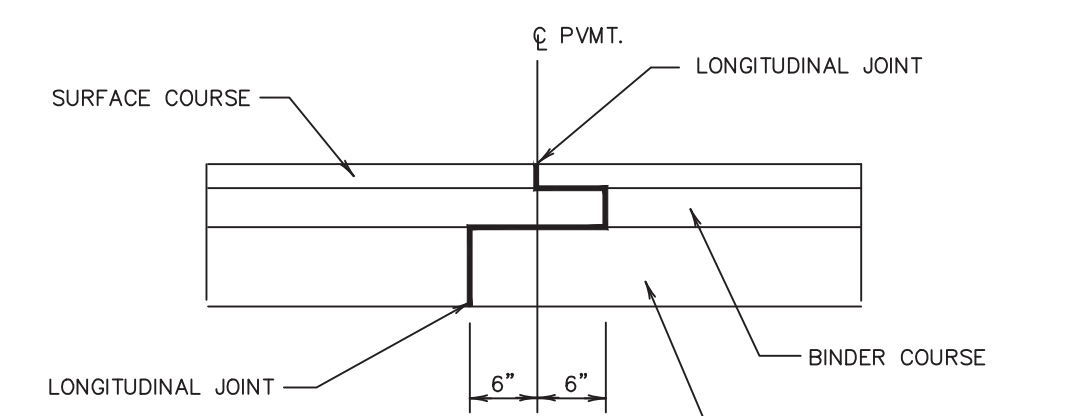


SECTION A-A



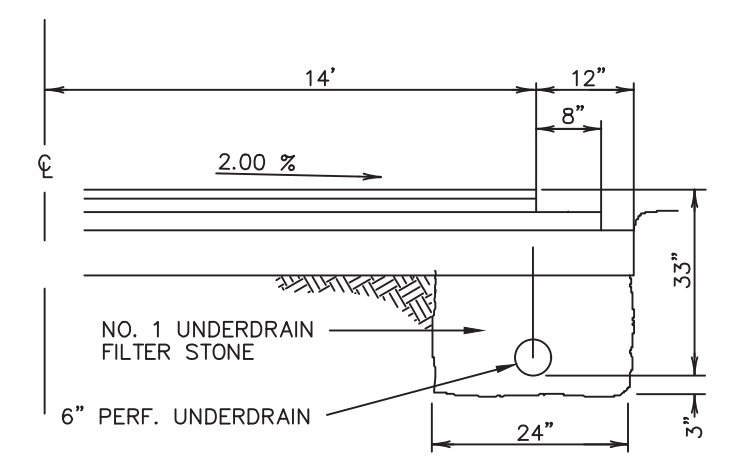
PROFILE VIEW B

SIDEWALK RAMP

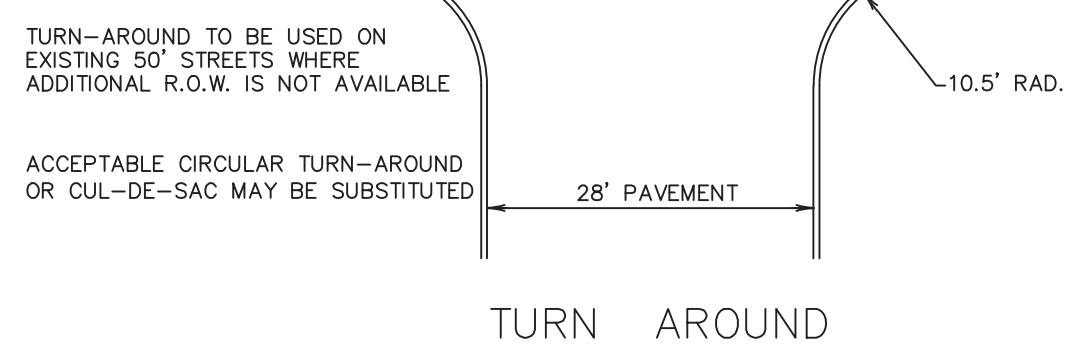


THE WIDTH OF SPREAD SHOULD BE PLANNED TO PROVIDE FOR THE OFFSETTING OF LONGITUDINAL JOINTS IN THE SEVERAL COURSES

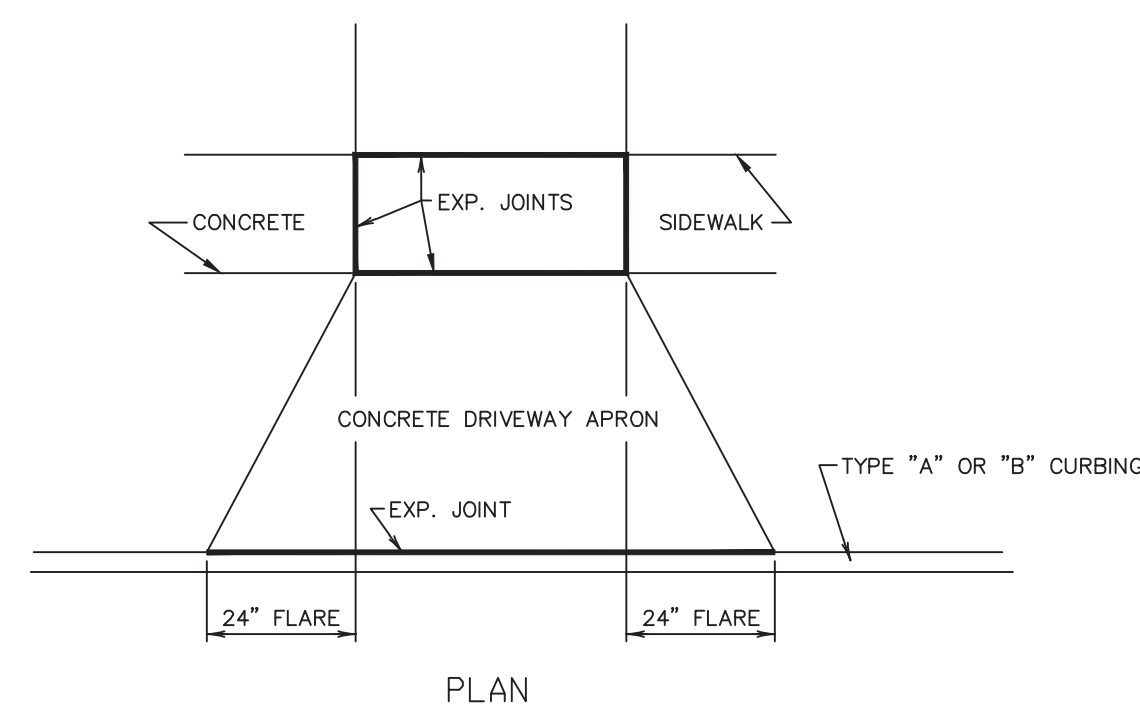
PAVEMENT OVERLAPPING DETAIL



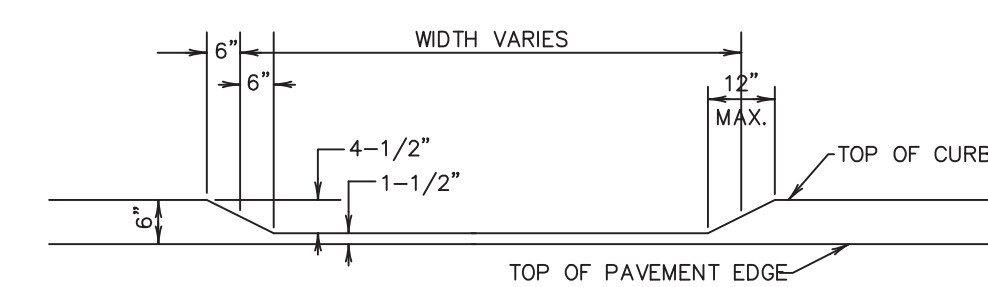
TYPICAL PAVEMENT SECTION



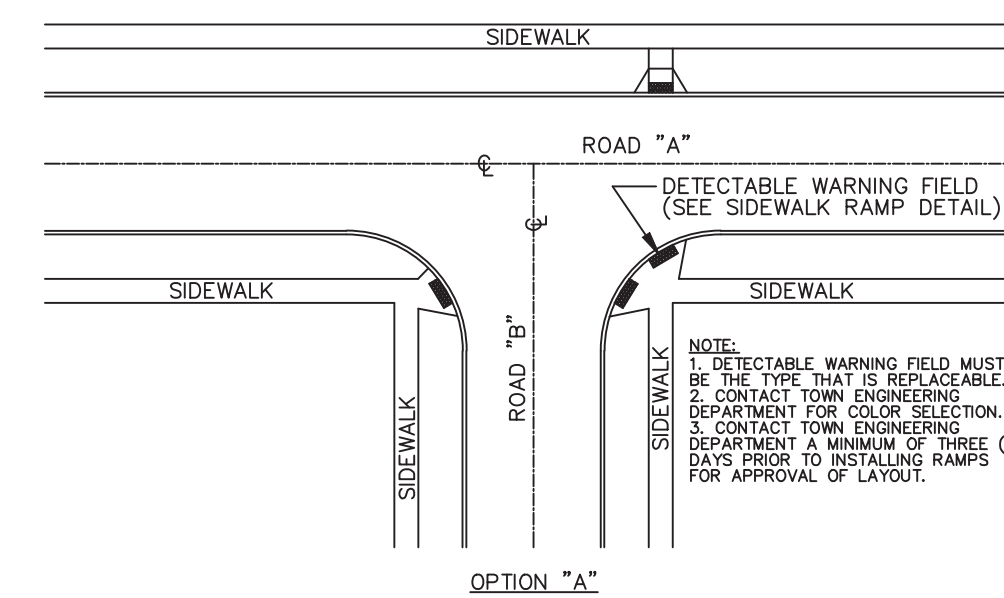
TURN AROUND



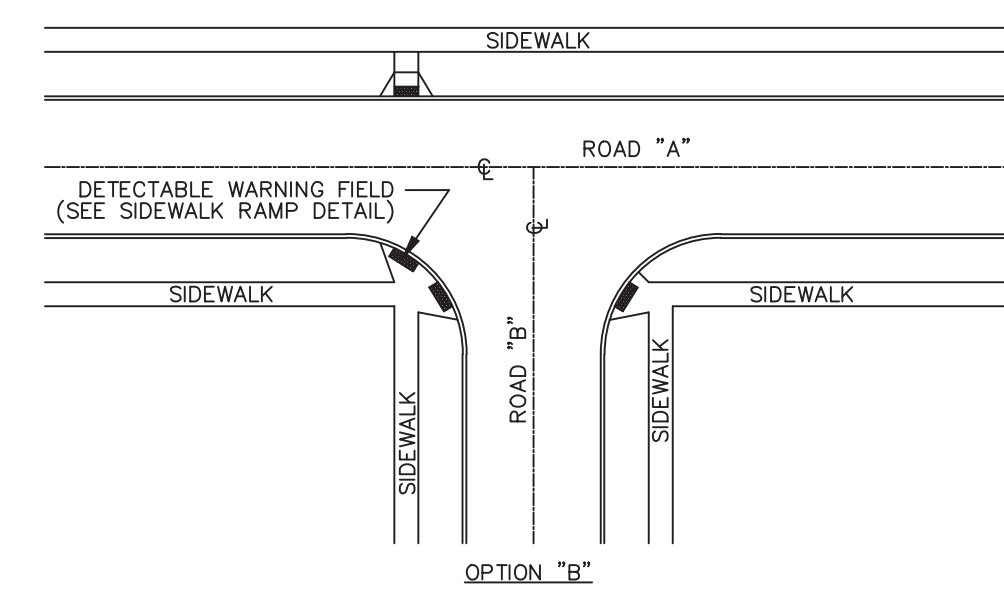
PLAN



DRIVEWAY CURB CUTS

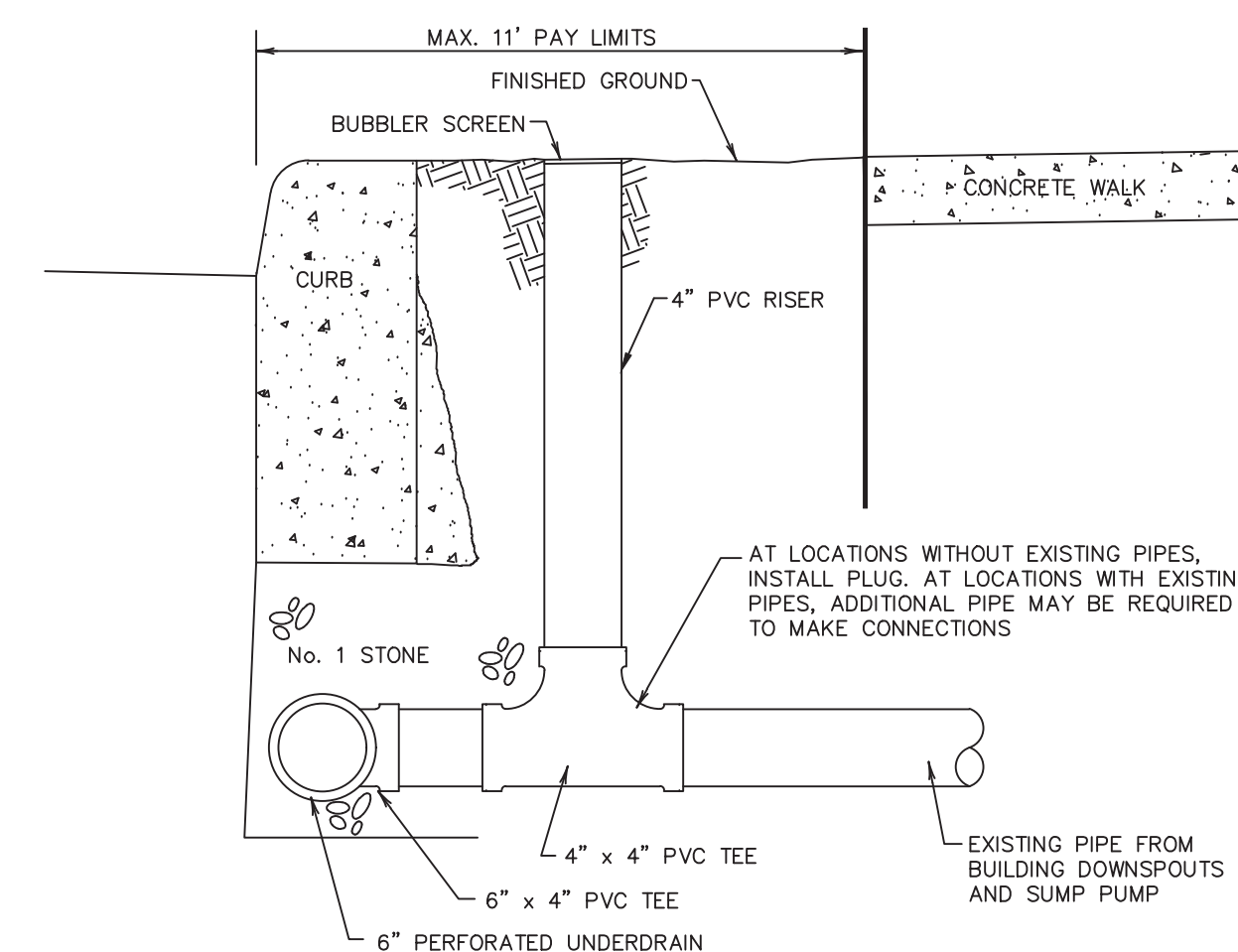


OPTION "A"



OPTION "B"

RAMP LAYOUT AT TEE INTERSECTIONS



YARD DRAIN

REVISIONS

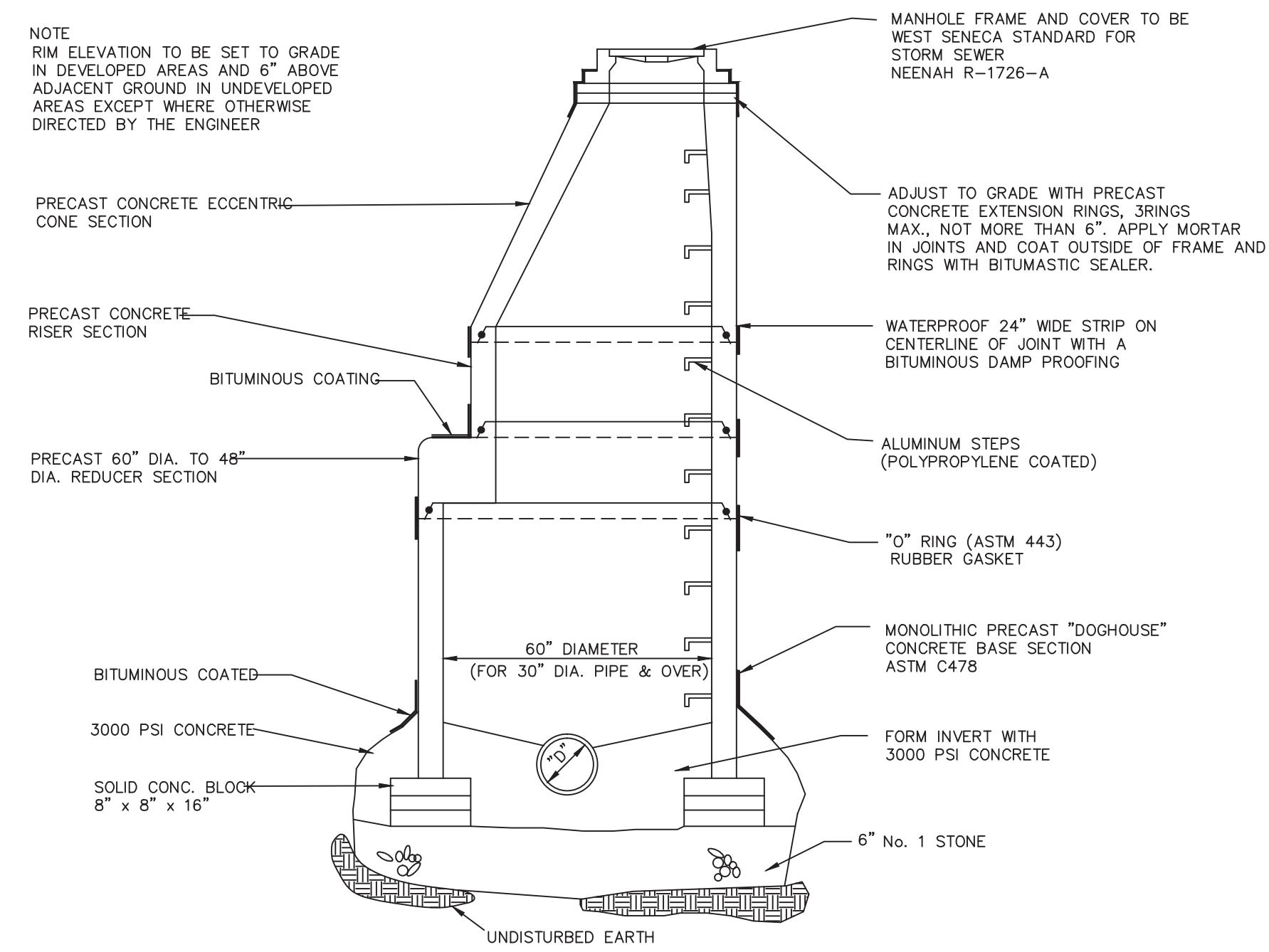
NO.	DATE	DESCRIPTION	BY
9			
8	7/8/19	REVISED CONC. TO 5000 PSI	RP
7	6/8/17	SIDEWALK RAMP	RP
6	3/21/16	YARD DRAIN PAY LIMITS	RP
5	1/18/12	SIDEWALK RAMP	DS
4	4/11	ADDED DETECTABLE WARNING SURFACE	RP
3	4/27/04	PAVEMENT GRADE	DS
2	5/13/03	VARIOUS CHANGES	DS
1	4/1/02	TYPE "BB" CURB	DS

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

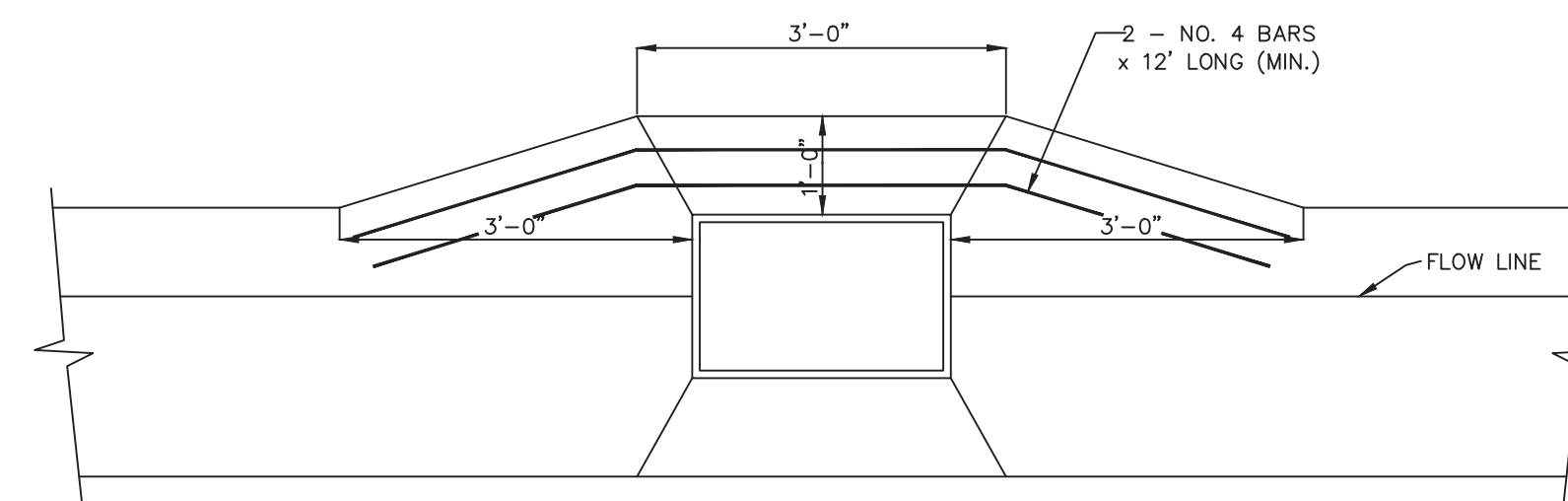
PAVING DETAILS

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

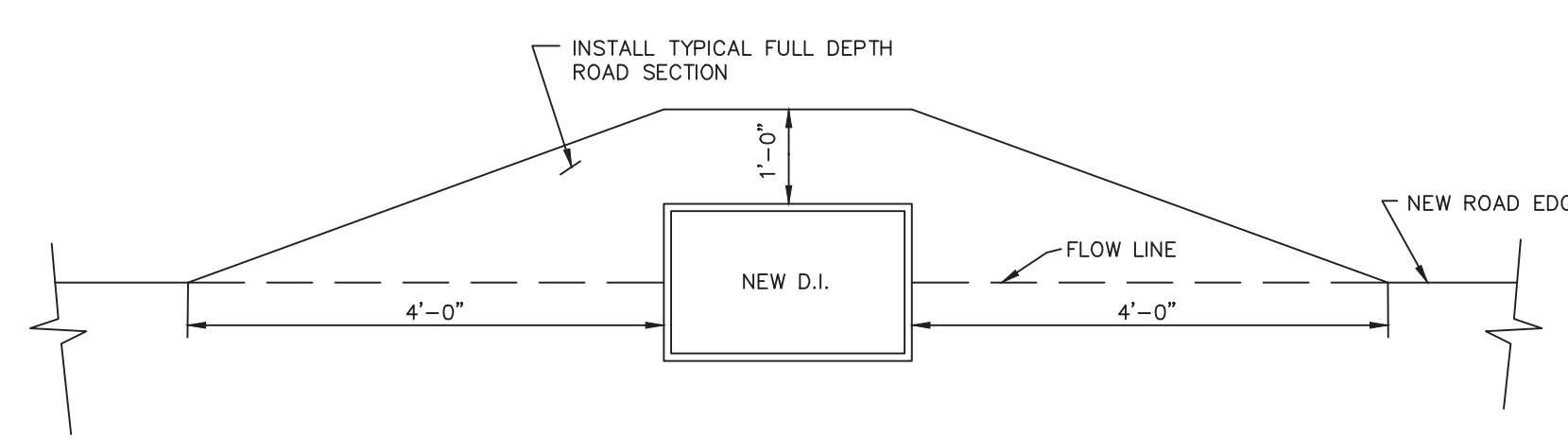
NOTE
RIM ELEVATION TO BE SET TO GRADE IN DEVELOPED AREAS AND 6" ABOVE ADJACENT GROUND IN UNDEVELOPED AREAS EXCEPT WHERE OTHERWISE DIRECTED BY THE ENGINEER



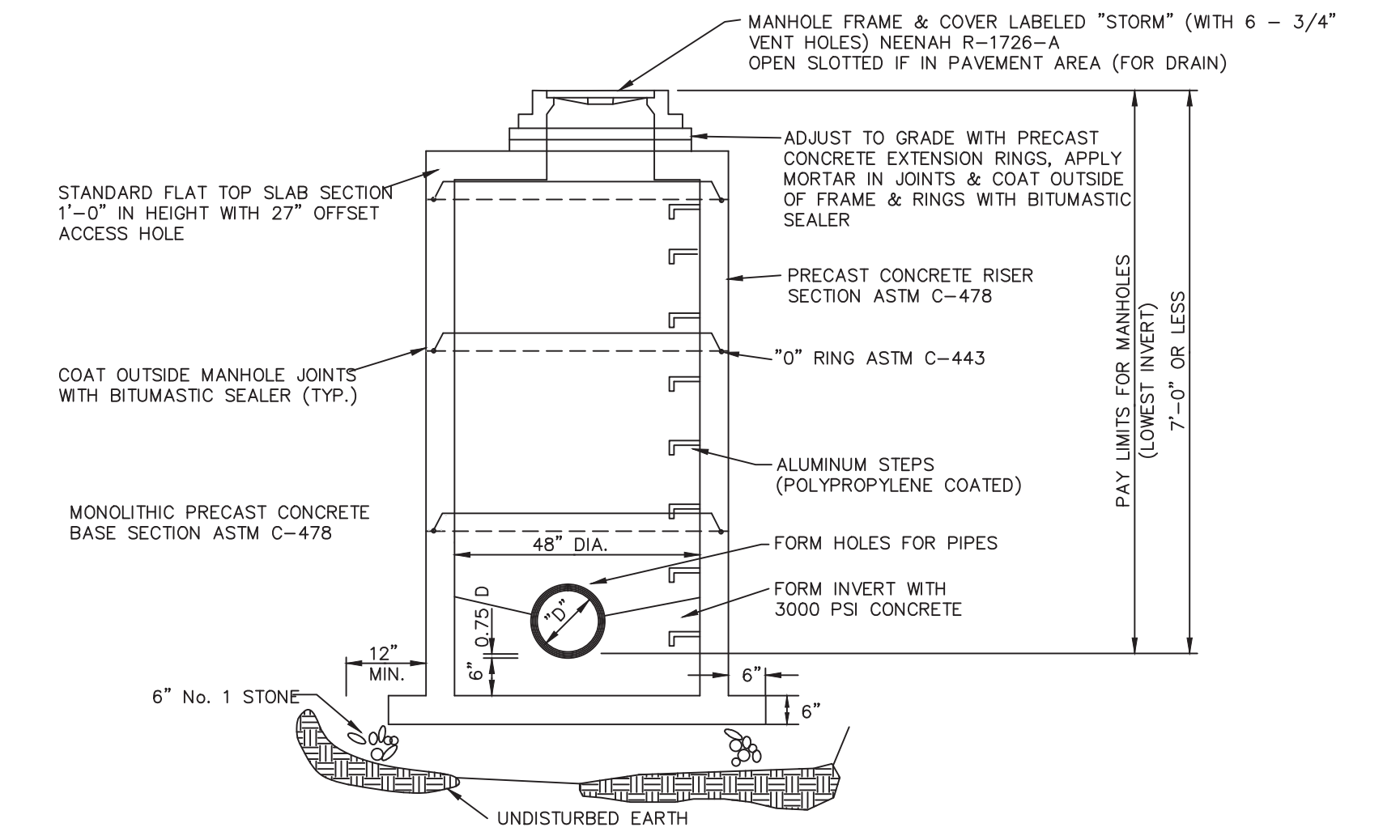
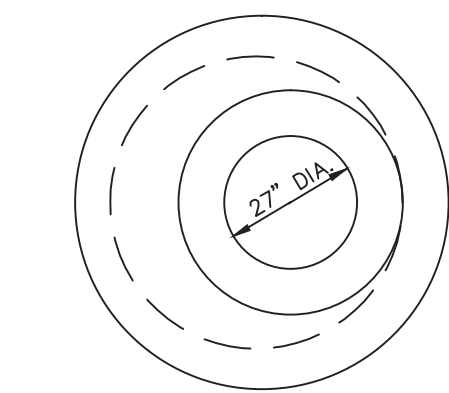
PRECAST CONCRETE MANHOLE OVER EXISTING STORM SEWER



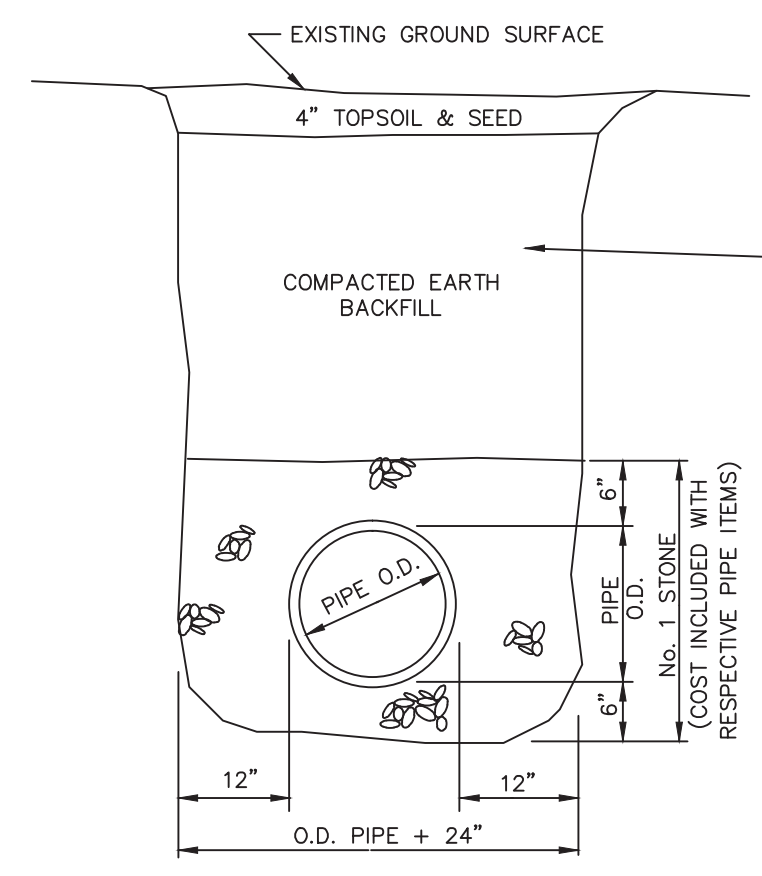
CONCRETE GUTTER AT D.I.'S



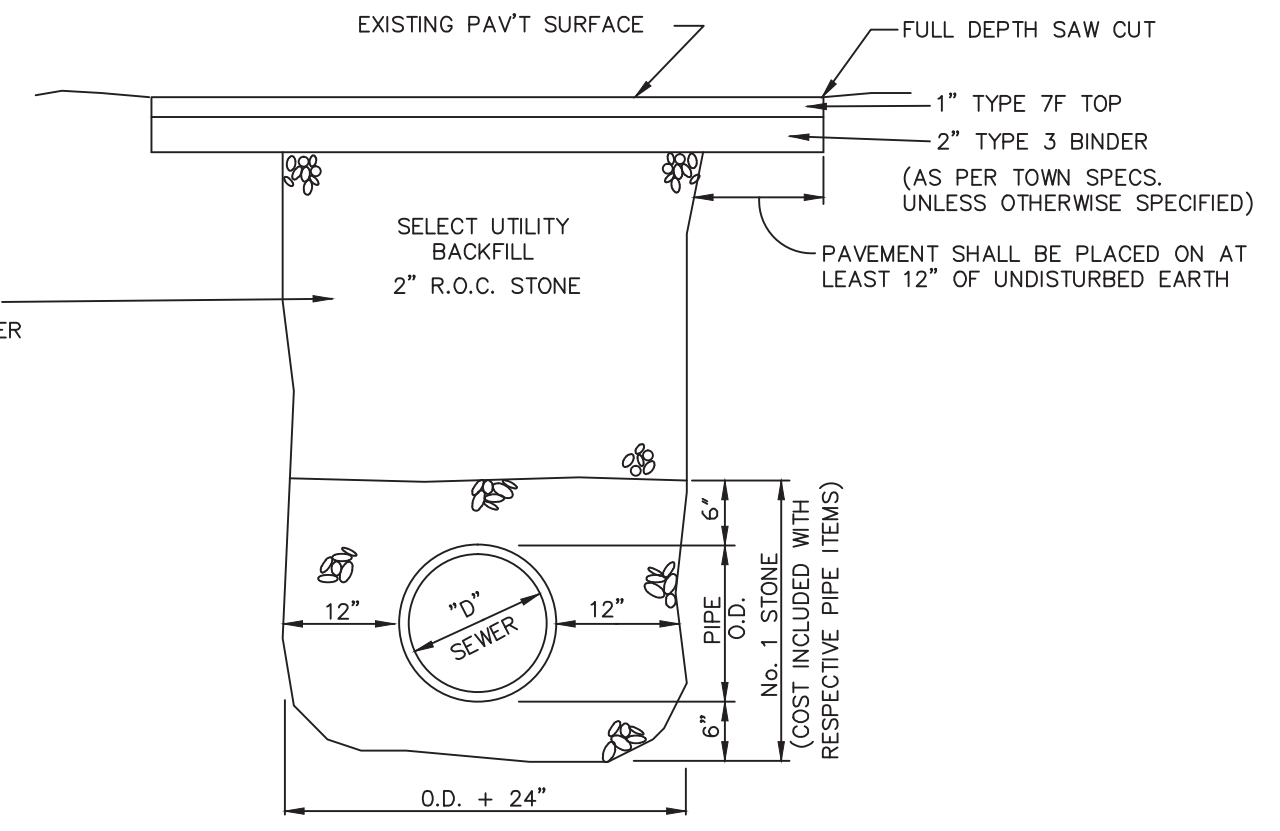
TYPICAL PAVEMENT SECTION AT D.I.'S



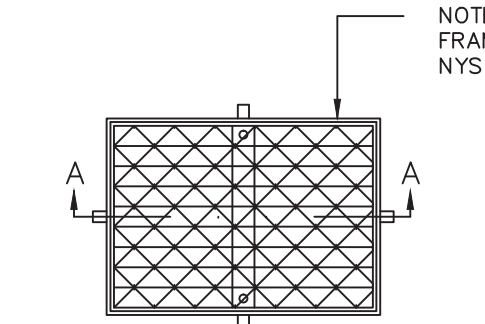
PRECAST CONCRETE MANHOLE (7'-0" OR LESS IN DEPTH)



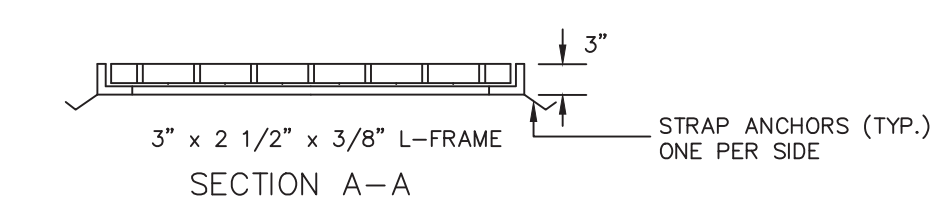
TYPICAL STORM SEWER TRENCH DETAIL



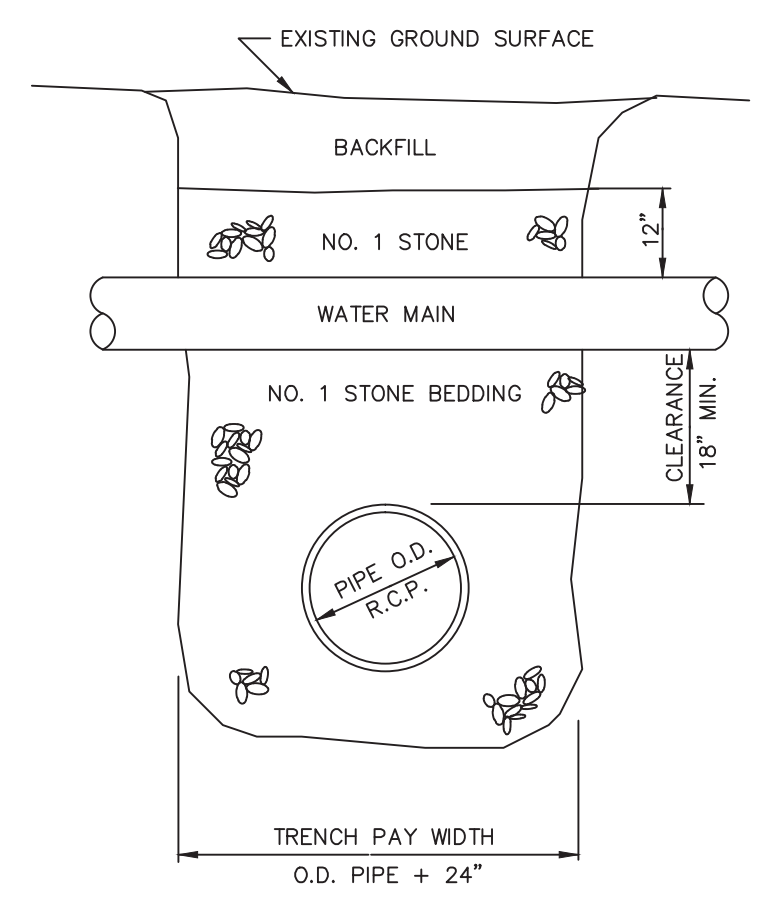
TRENCH DETAIL AT TOWN ROADS & OTHER PAVEMENT CROSSINGS



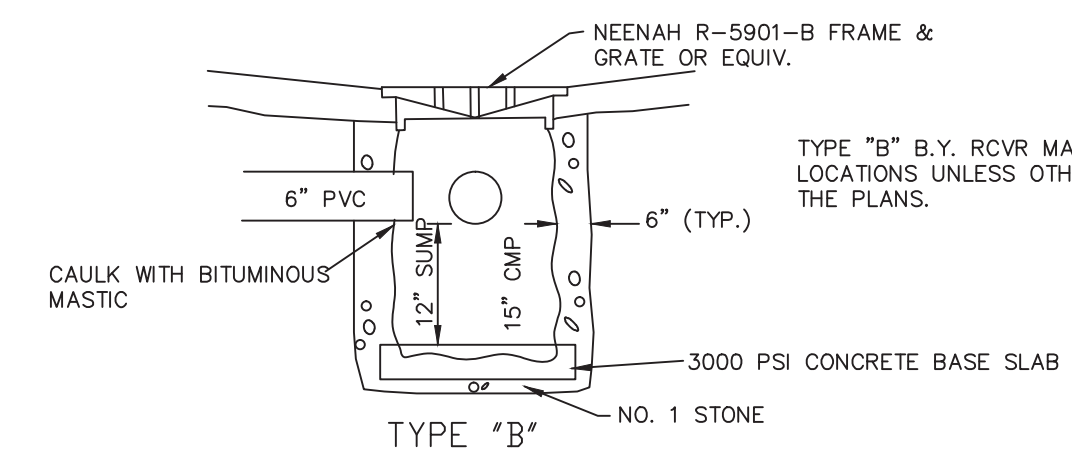
FRAME 2'-4 13/16" x 2'-3 1/2"
GRATE 2'-3 13/16" x 2'-2 1/2"



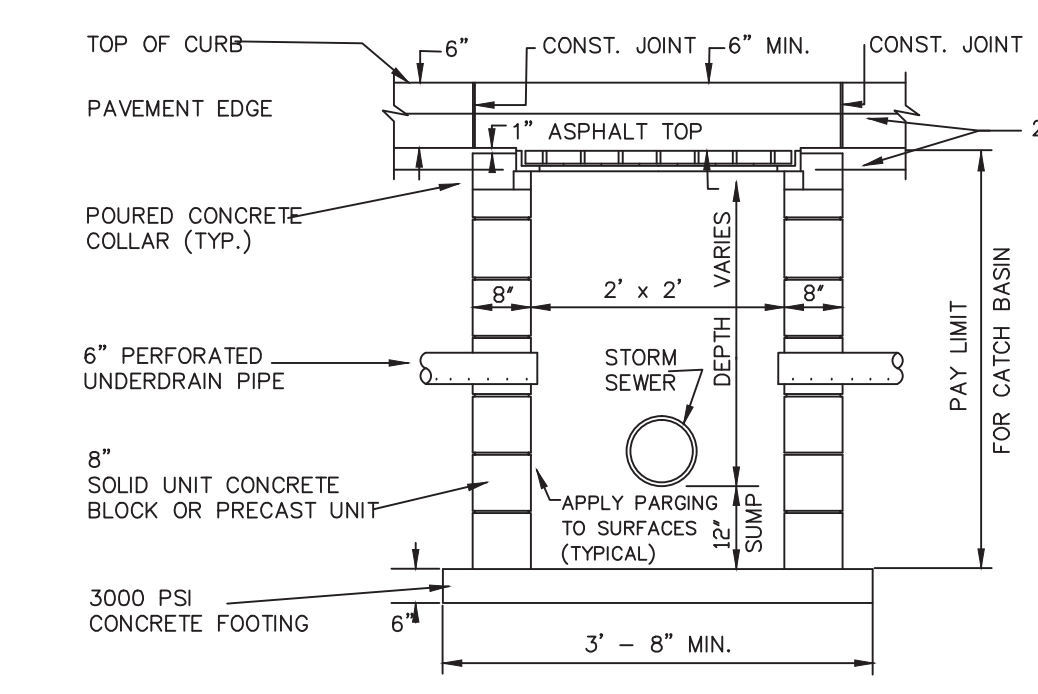
SECTION A-A



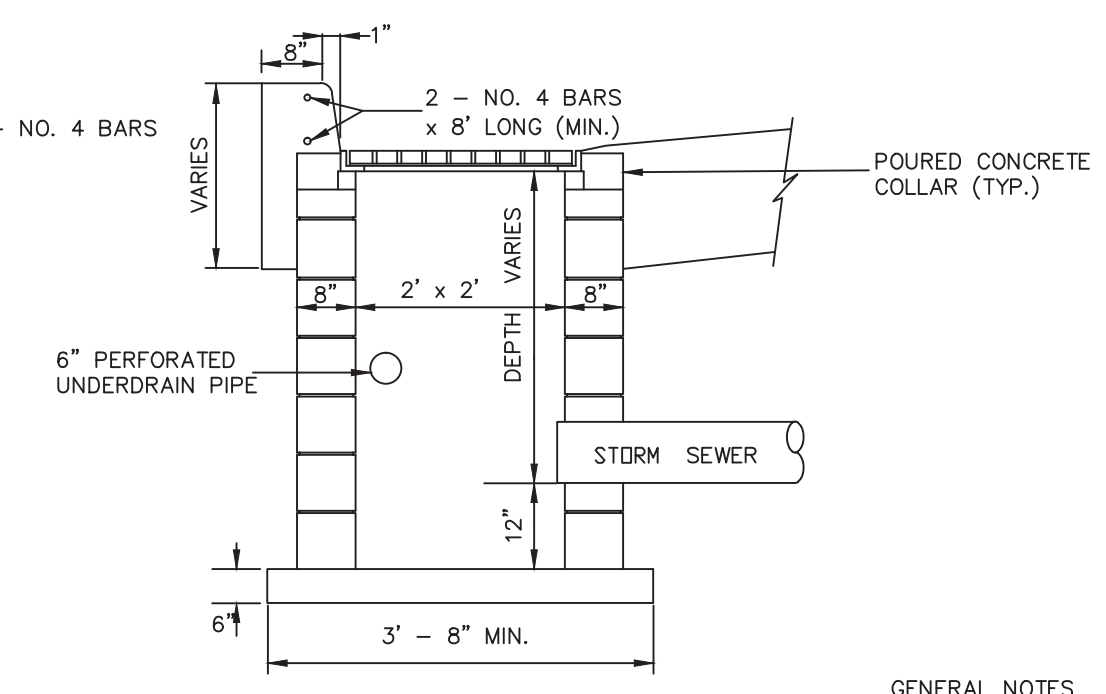
TRENCH DETAIL AT WATER MAIN CROSSING



BACK YARD RECEIVER (B.Y. RCVR) DETAILS



STANDARD CATCH BASIN



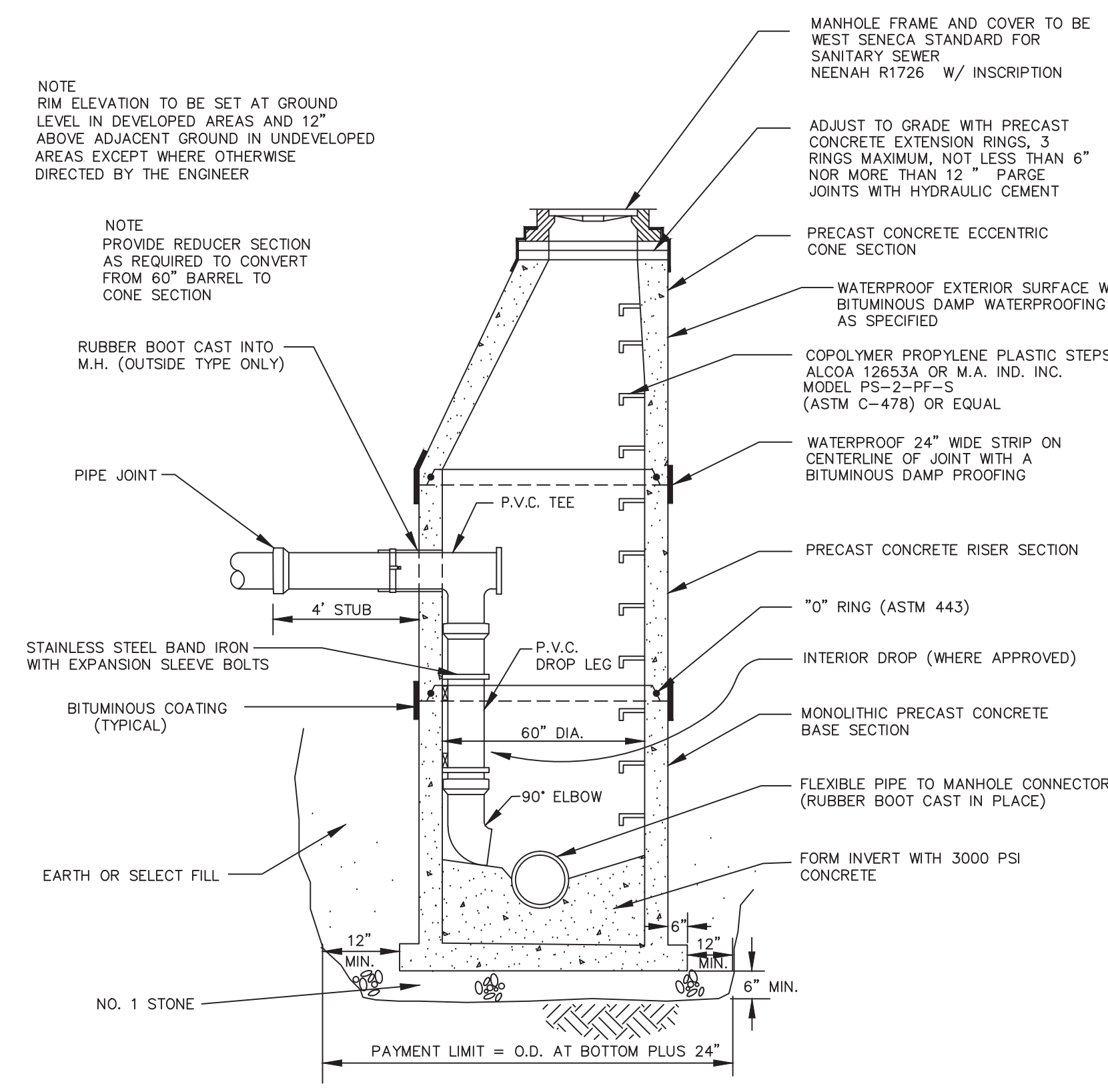
GENERAL NOTES
1. ALL EXCAVATIONS UNDER ANY UTILITY WILL BE BACKFILLED WITH NO. 1 STONE TO A POINT AT LEAST 6" OVER THE TOP OF THE UTILITY.
2. FOR ALL ROAD CROSSINGS USING JACKING & BORING METHOD, SEE SANITARY SEWER DETAIL SHEET

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

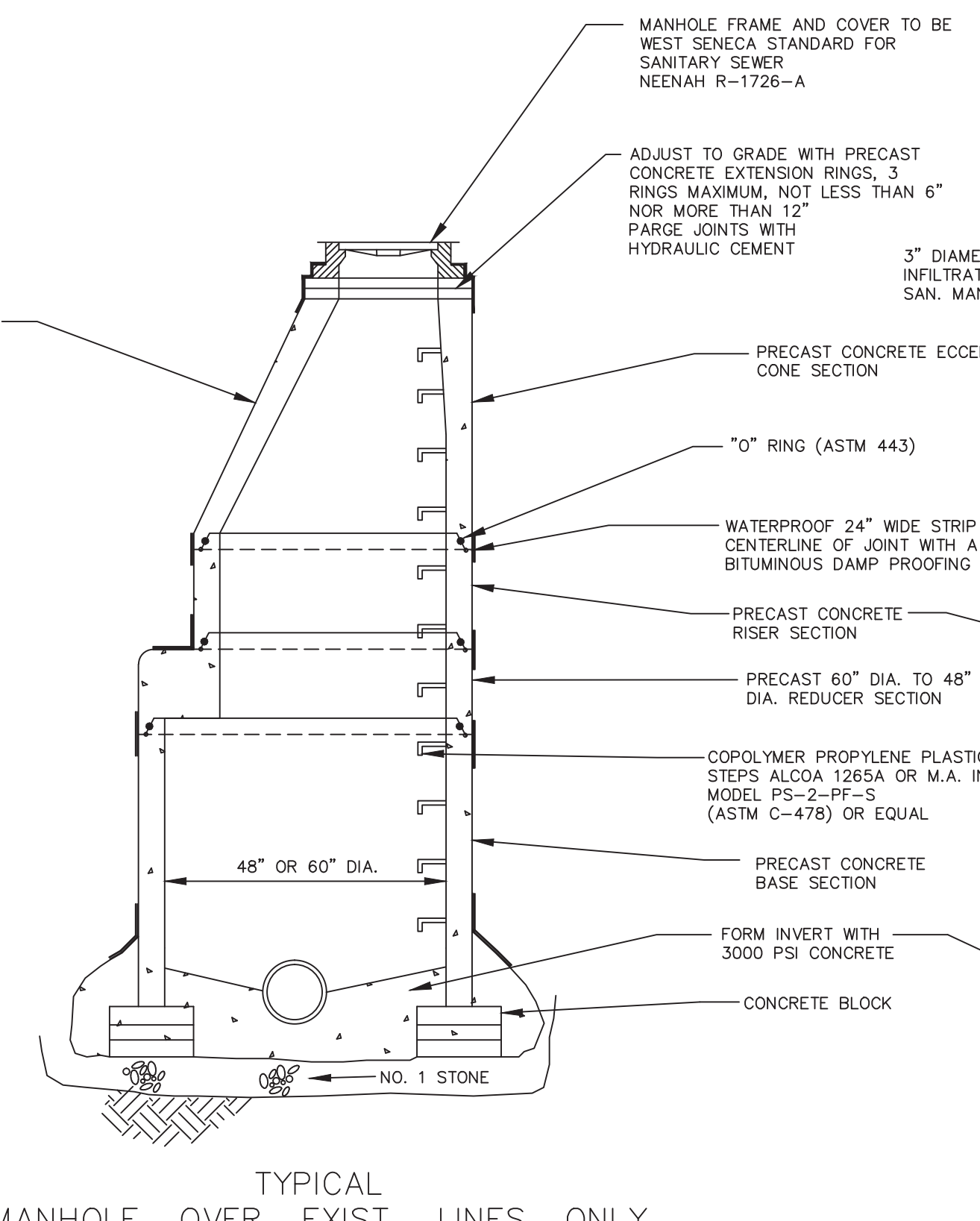
WEST SENECA ENGINEERING DEPARTMENT
1250 UNION ROAD, WEST SENECA, N.Y. 14224
PHONE : 674-5600

STORM SEWER DETAILS

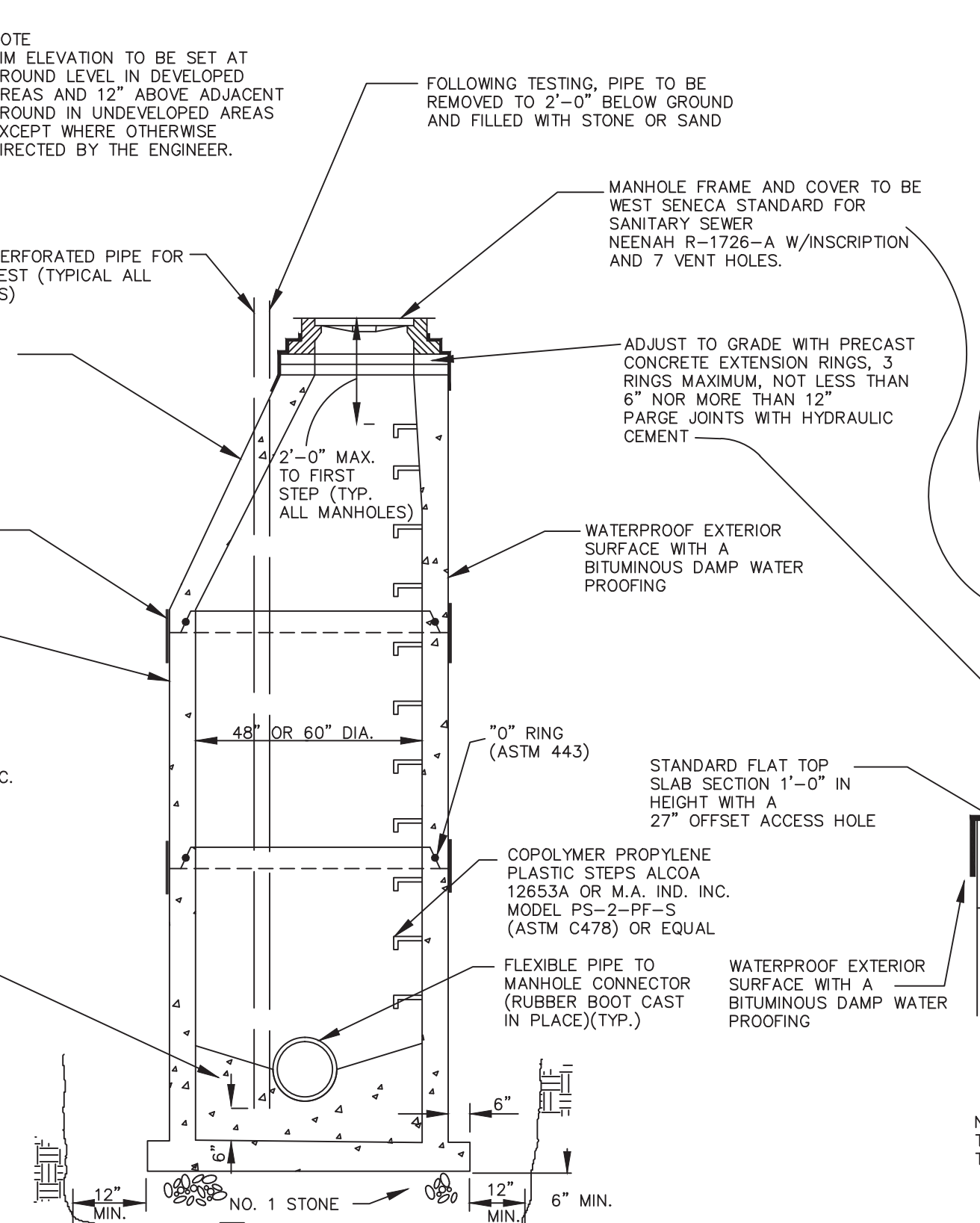
DRAWN BY : DATE : 5/97 JOB NO. DRAWING NO.
APPROVED BY : GM. SCALE HOR. NONE VER. OF



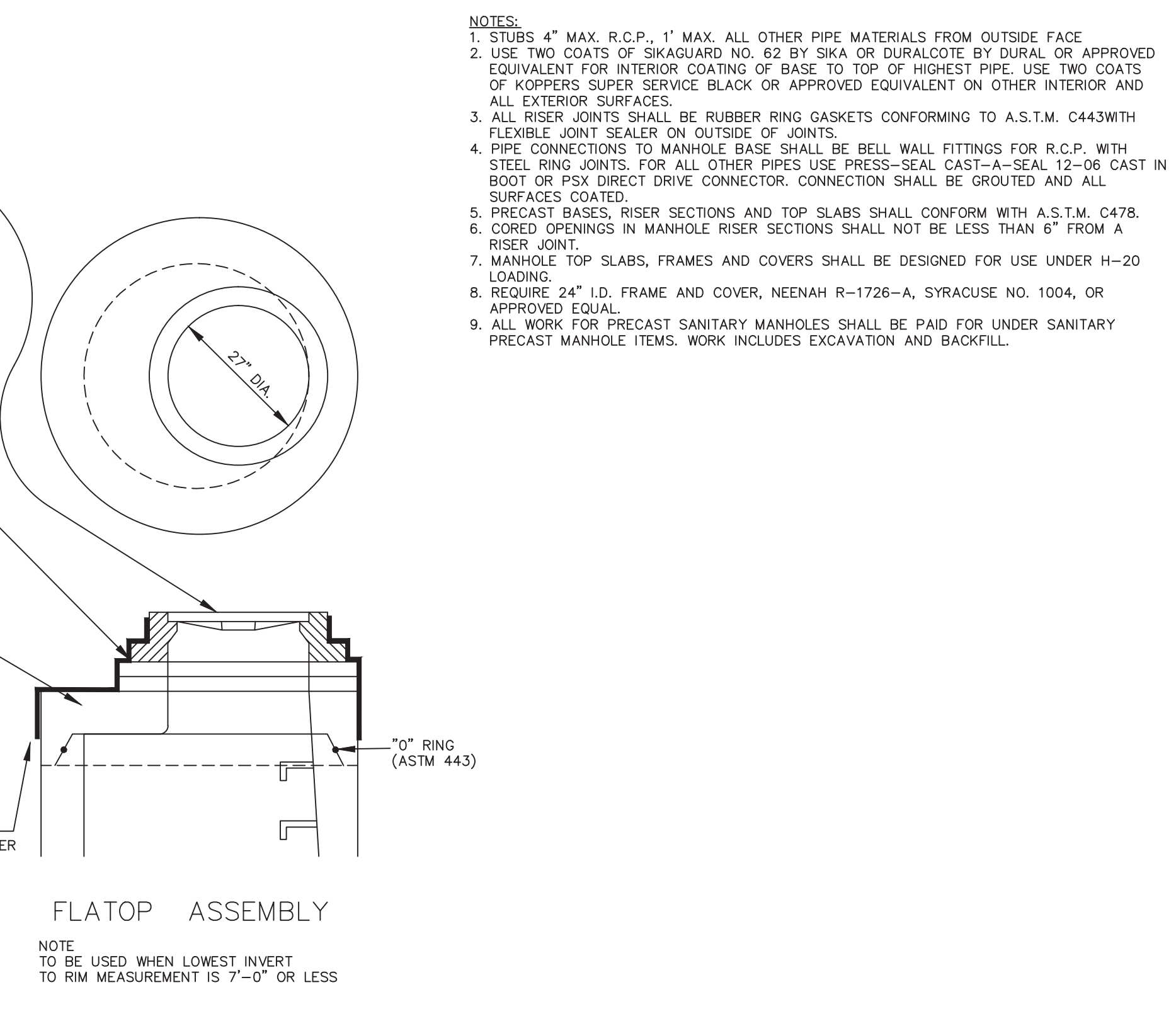
TYPICAL DROP MANHOLE



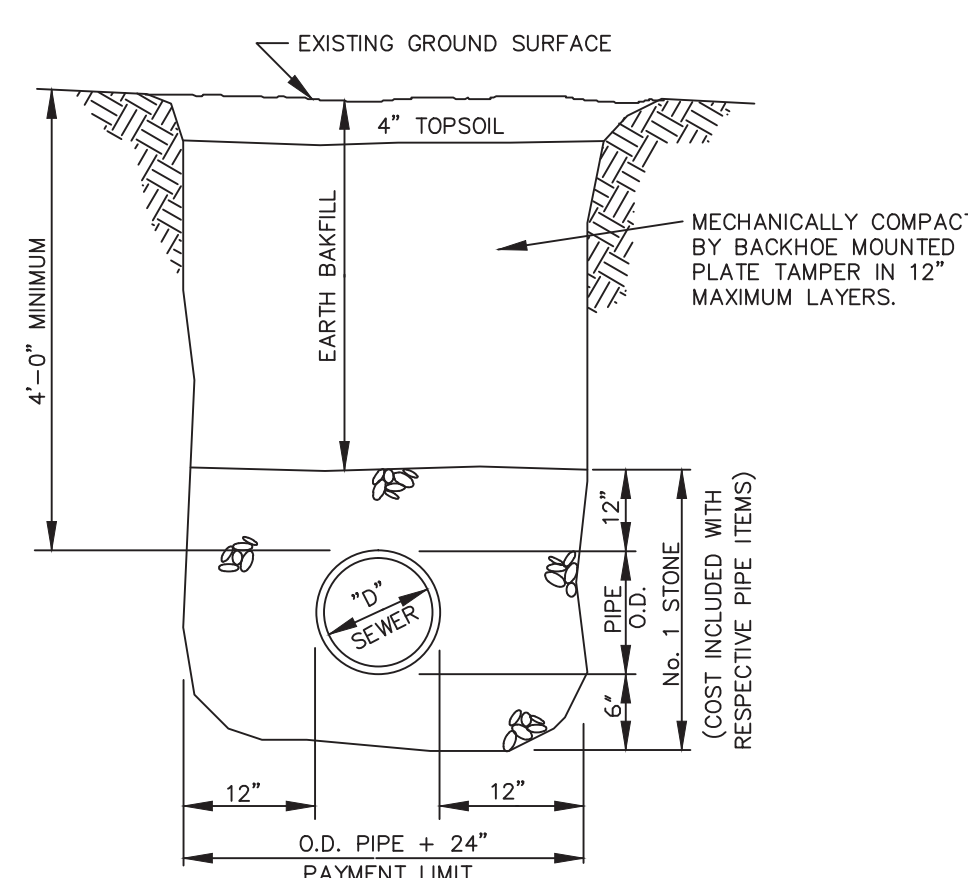
TYPICAL MANHOLE OVER EXIST. LINES ONLY
60" DIA. FOR 21" OR OVER PIPE



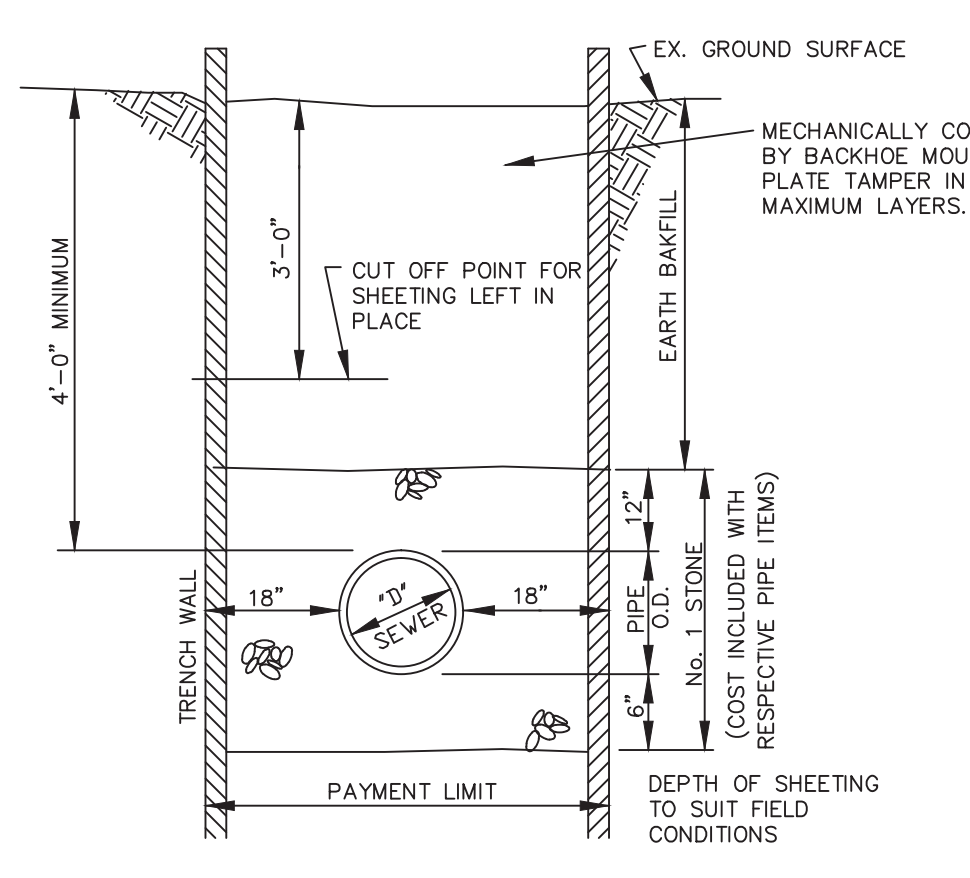
TYPICAL MANHOLE - NEW CONSTRUCTION
48" OR 60" DIAMETER



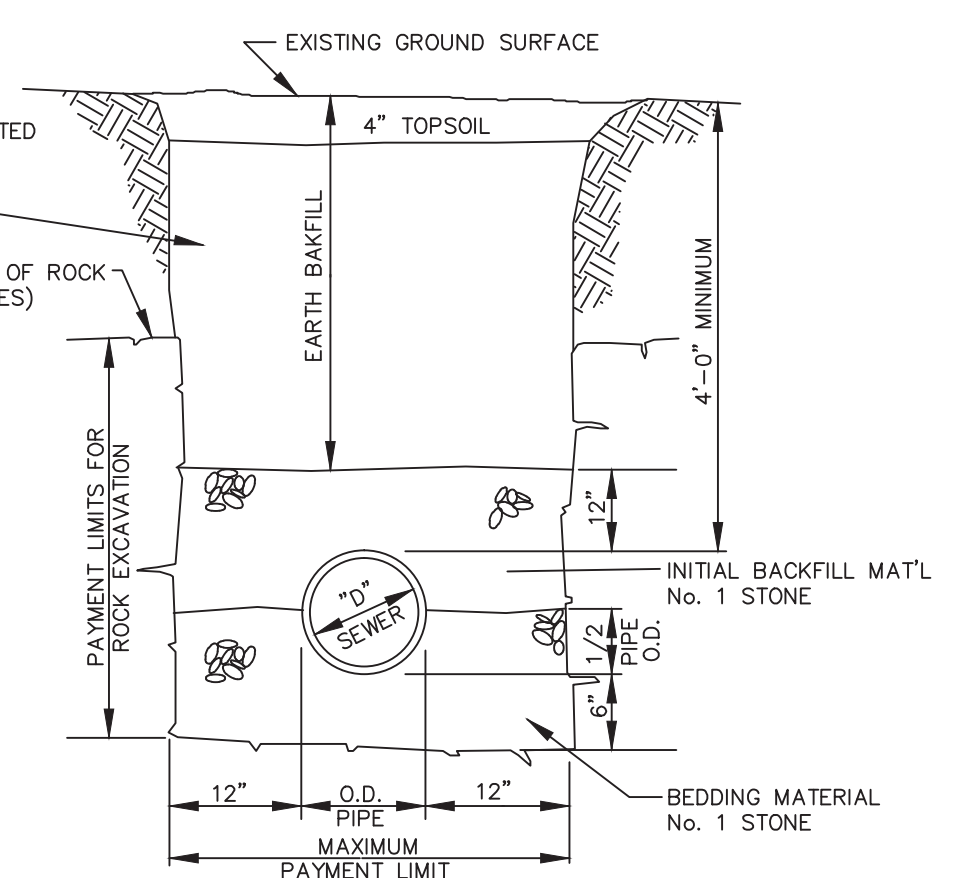
- NOTES:
1. STUBS 4" MAX. R.C.P., 1" MAX. ALL OTHER PIPE MATERIALS FROM OUTSIDE FACE
 2. USE TWO COATS OF SIKAGUARD NO. 62 BY SIKKA OR DURALCOTE BY DURAL OR APPROVED EQUIVALENT FOR INTERIOR COATING OF BASE TO TOP OF HIGHEST PIPE. USE TWO COATS OF KOPPERS SUPER SERVICE BLACK OR APPROVED EQUIVALENT ON OTHER INTERIOR AND ALL EXTERIOR SURFACES.
 3. ALL RISER JOINTS SHALL BE RUBBER RING GASKETS CONFORMING TO A.S.T.M. C443 WITH FLEXIBLE JOINT SEALER ON OUTSIDE OF JOINTS.
 4. PIPE CONNECTIONS TO MANHOLE BASE SHALL BE BELL WALL FITTINGS FOR R.C.P. WITH STEEL RING JOINTS. FOR ALL OTHER PIPES USE PRESS-SEAL CAST-IN-PLACE SEAL 12-06 CAST IN BOOT OR PSX DIRECT DRIVE CONNECTOR. CONNECTION SHALL BE GROUDED AND ALL SURFACES COATED.
 5. PRECAST BASES, RISER SECTIONS AND TOP SLABS SHALL CONFORM WITH A.S.T.M. C478.
 6. CORED OPENINGS IN MANHOLE RISER SECTIONS SHALL NOT BE LESS THAN 6" FROM A RISER JOINT.
 7. MANHOLE TOP SLABS, FRAMES AND COVERS SHALL BE DESIGNED FOR USE UNDER H-20 LOADING.
 8. REQUIRE 24" I.D. FRAME AND COVER, NEENAH R-1726-A, SYRACUSE NO. 1004, OR APPROVED EQUAL.
 9. ALL WORK FOR PRECAST SANITARY MANHOLES SHALL BE PAID FOR UNDER SANITARY PRECAST MANHOLE ITEMS. WORK INCLUDES EXCAVATION AND BACKFILL.



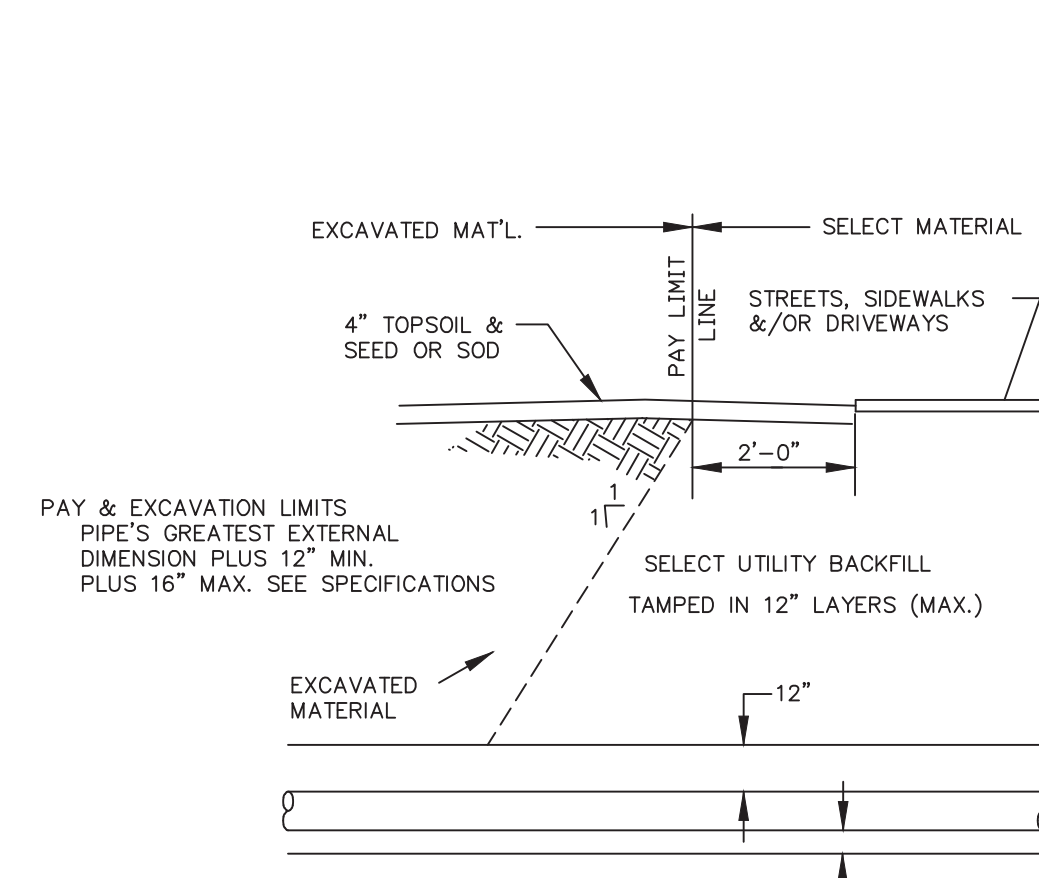
TYPICAL EARTH TRENCH



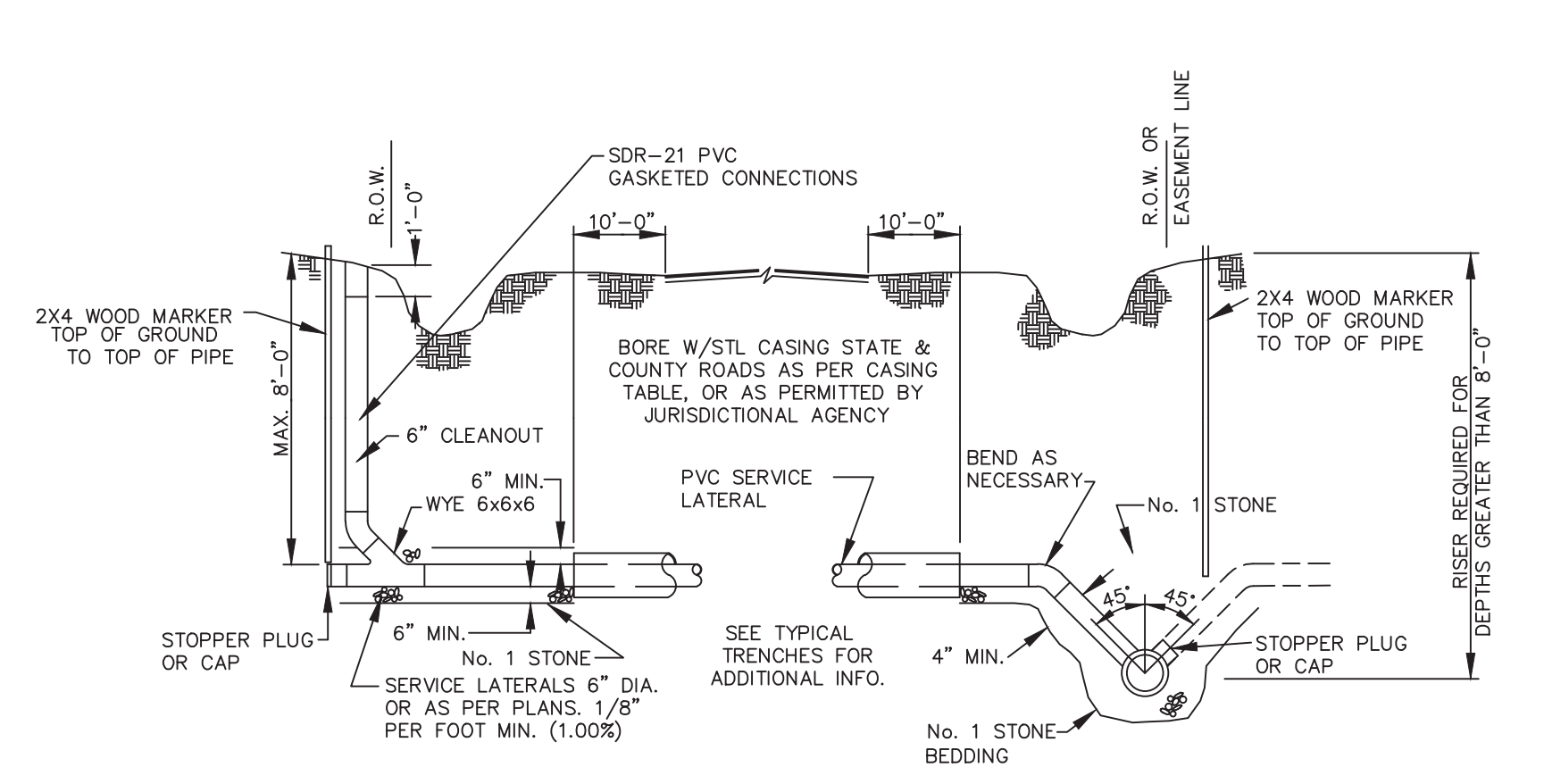
SHEETED TRENCH



ROCK TRENCH



PIPE PAY LIMITS

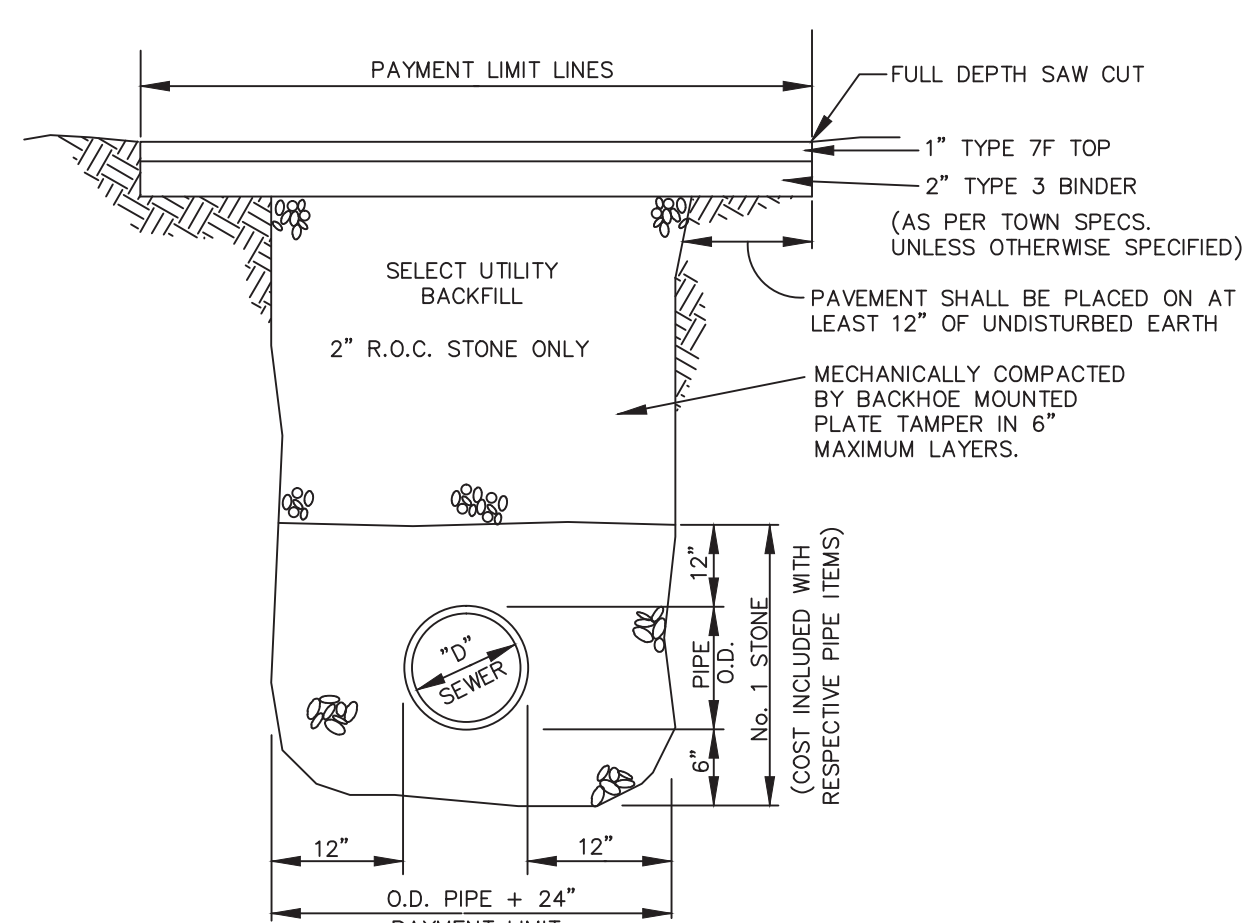


FAR SIDE

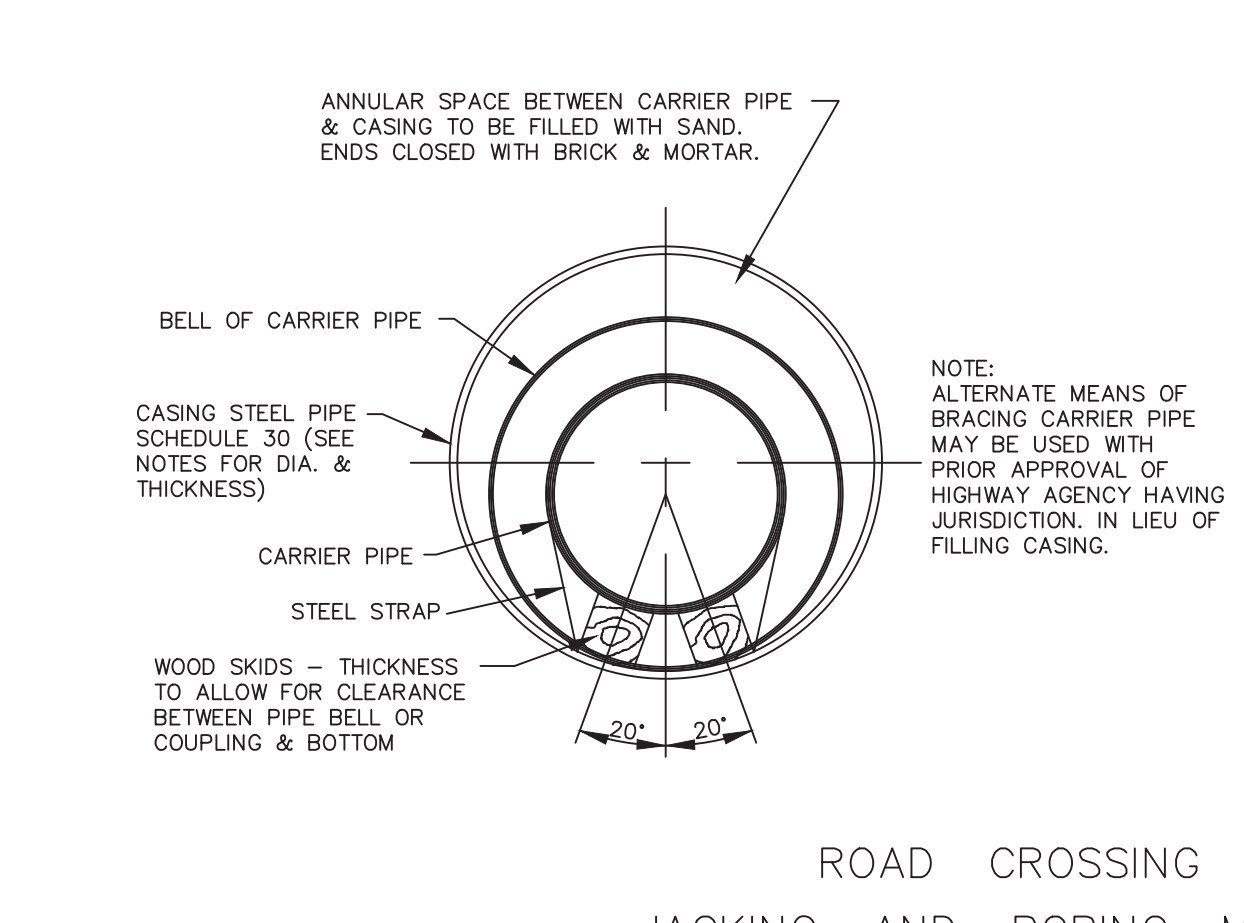
NEAR SIDE

TYPICAL SERVICES

TYPICAL TRENCH DETAILS IN UNPAVED AND UNTRAVELED AREAS



TYPICAL TRENCH DETAIL
TOWN ROAD CROSSING



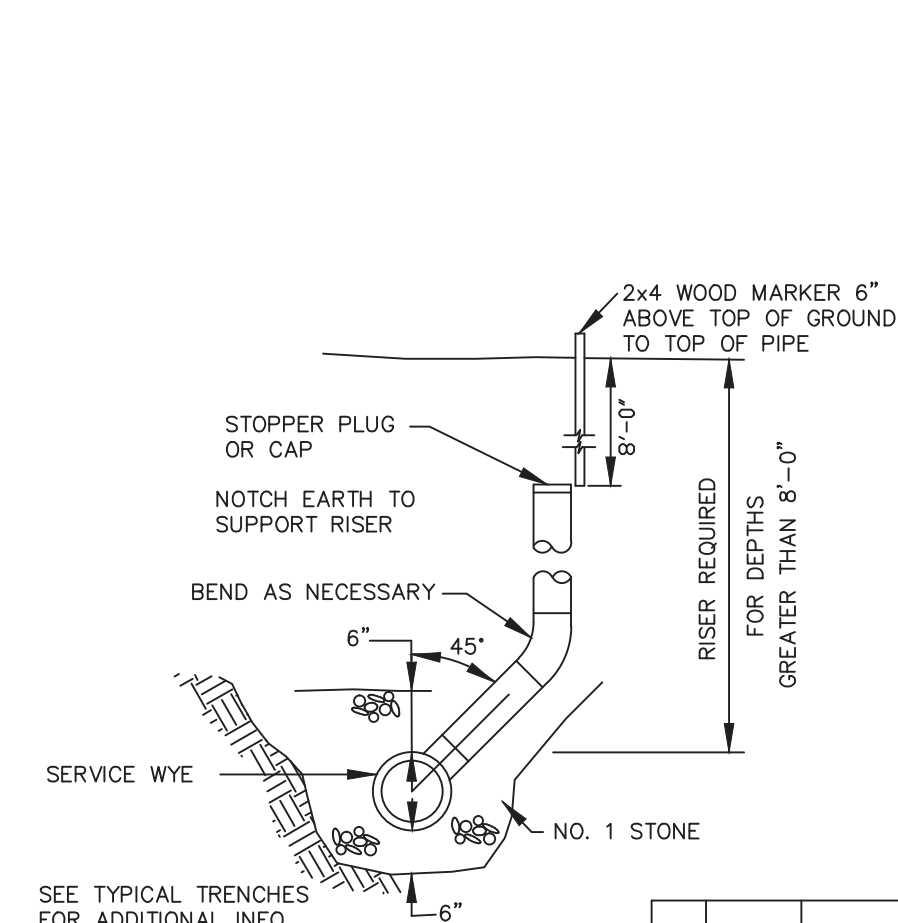
ROAD CROSSING
JACKING AND BORING METHOD
6" - 8" DIA. TO 24" DIA. CARRIER PIPE

NOTES:

1. SCHEDULE FOR DIAMETER & THICKNESS OF CASING PIPE

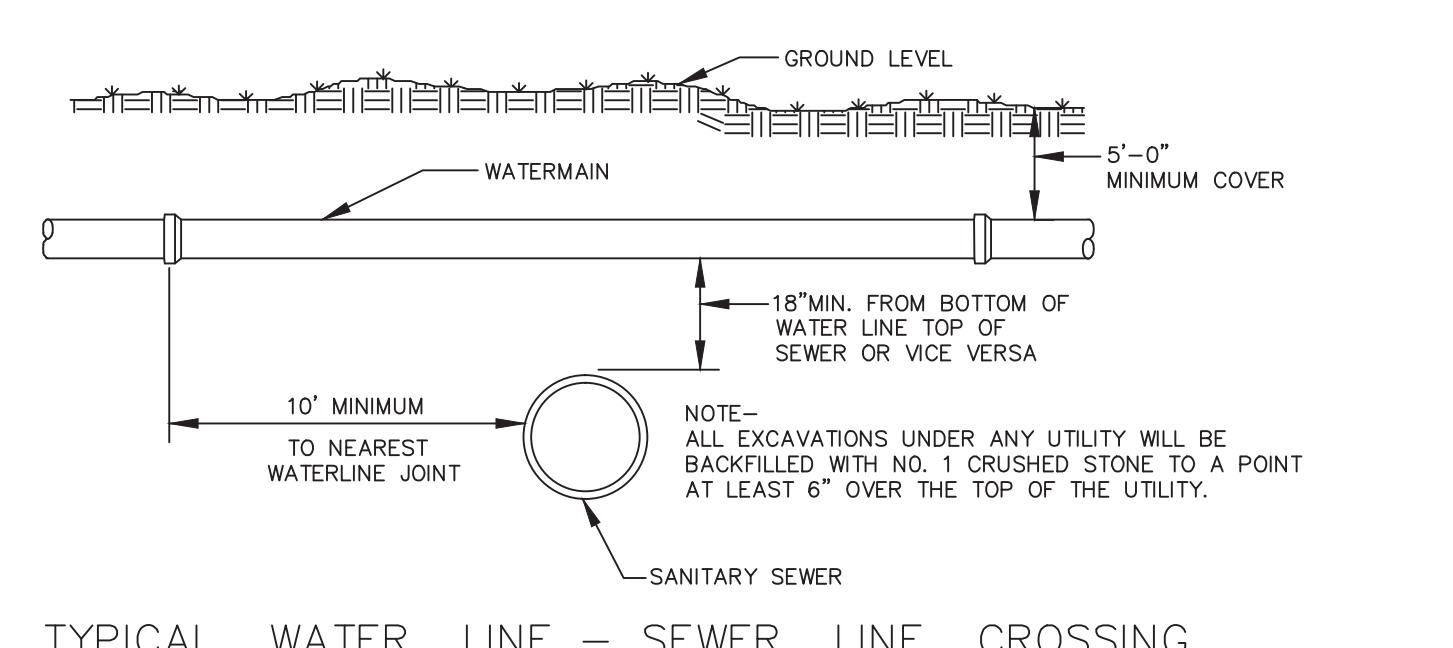
CARRIER PIPE DIAMETER	CASING PIPE DIAMETER	CASING PIPE THICKNESS
6"-8"	18"	0.375
10"	20"	0.375
12"	24"	0.375
15"	27"	0.375
18"	30"	0.375
21"	36"	0.469
24"	42"	0.469

2. 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	

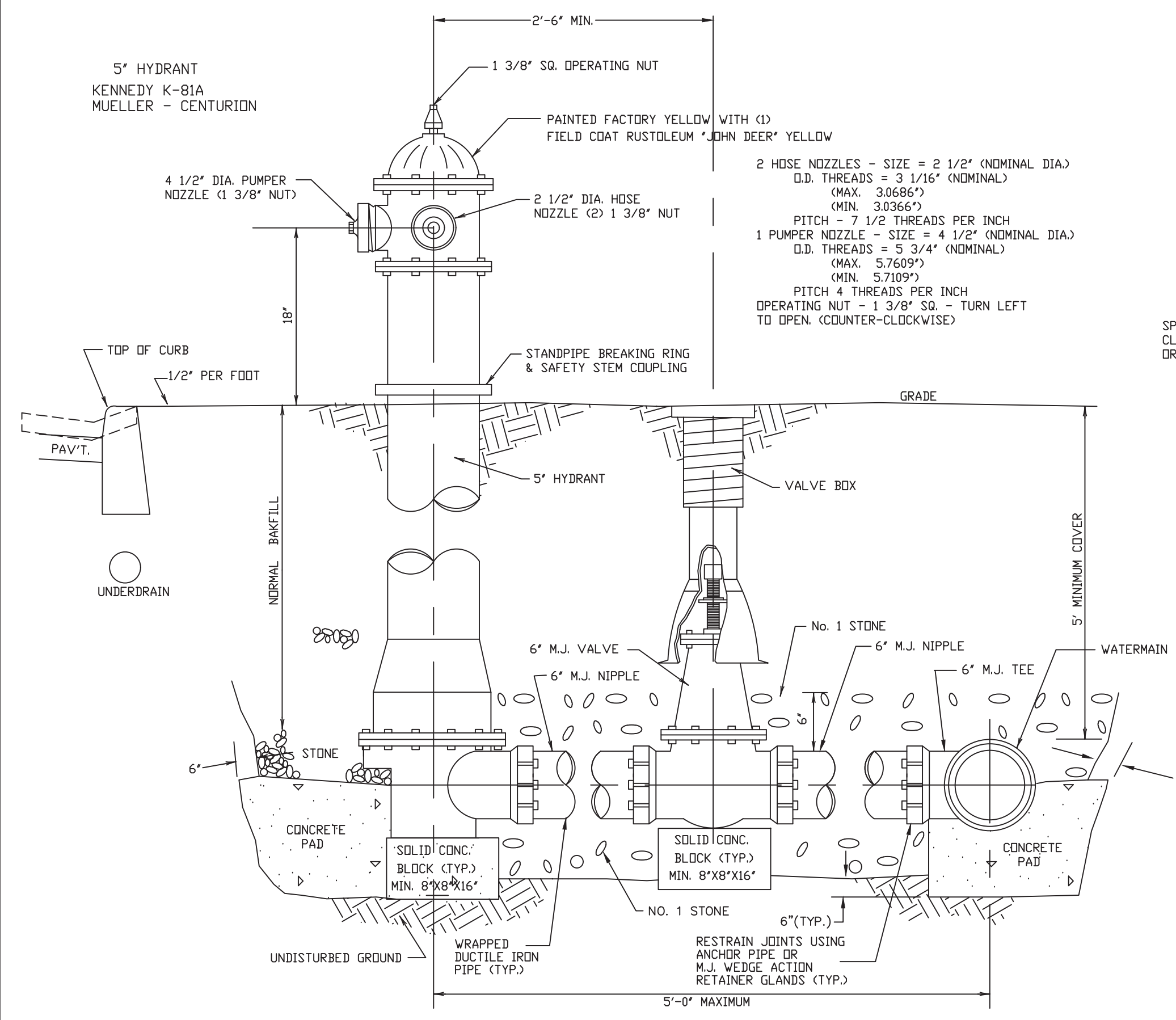


TYPICAL WATER LINE - SEWER LINE CROSSING

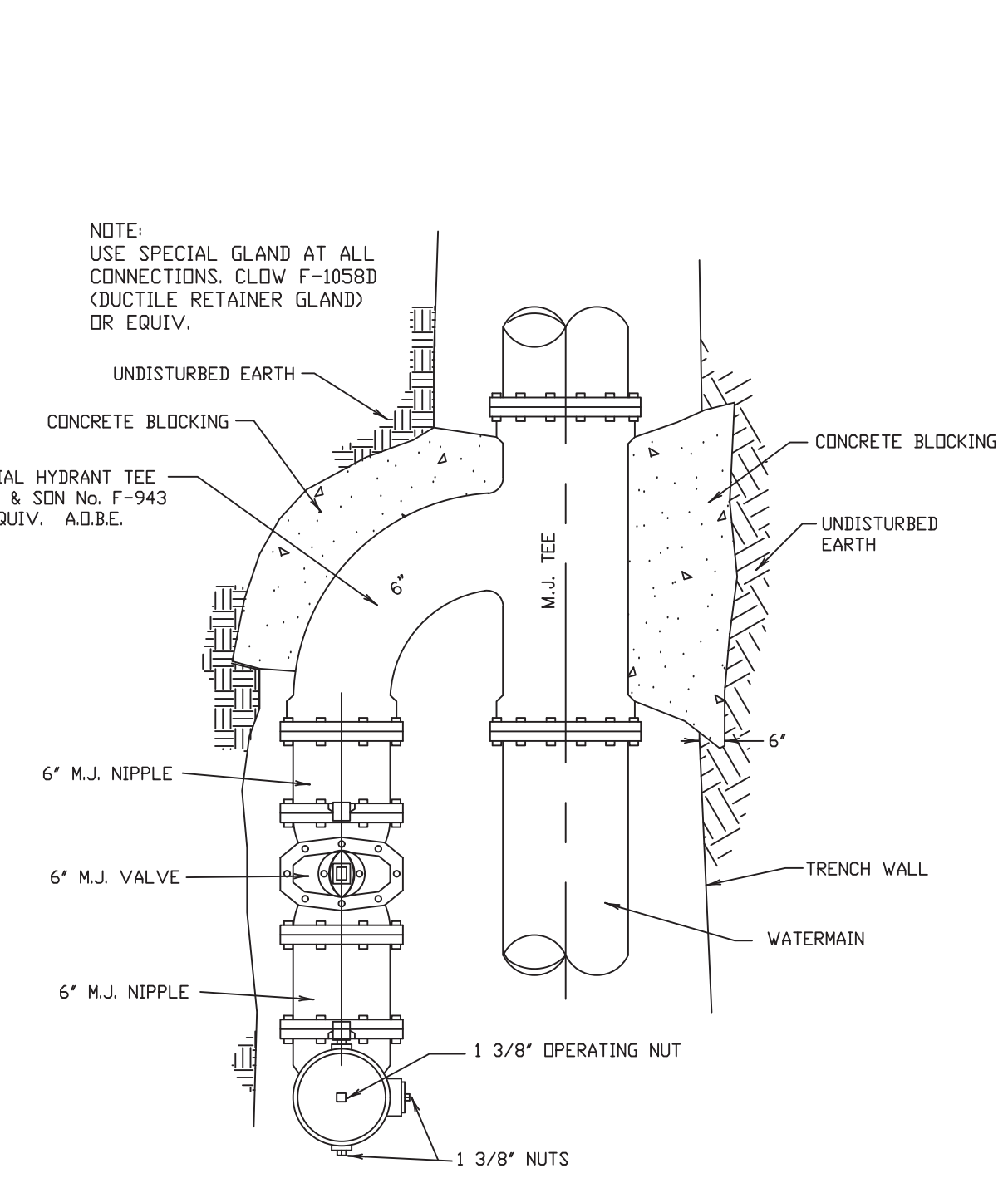
WEST SENECA ENGINEERING DEPARTMENT
1250 UNION ROAD, WEST SENECA, N.Y. 14224
PHONE : 674-5600

SANITARY SEWER DETAILS

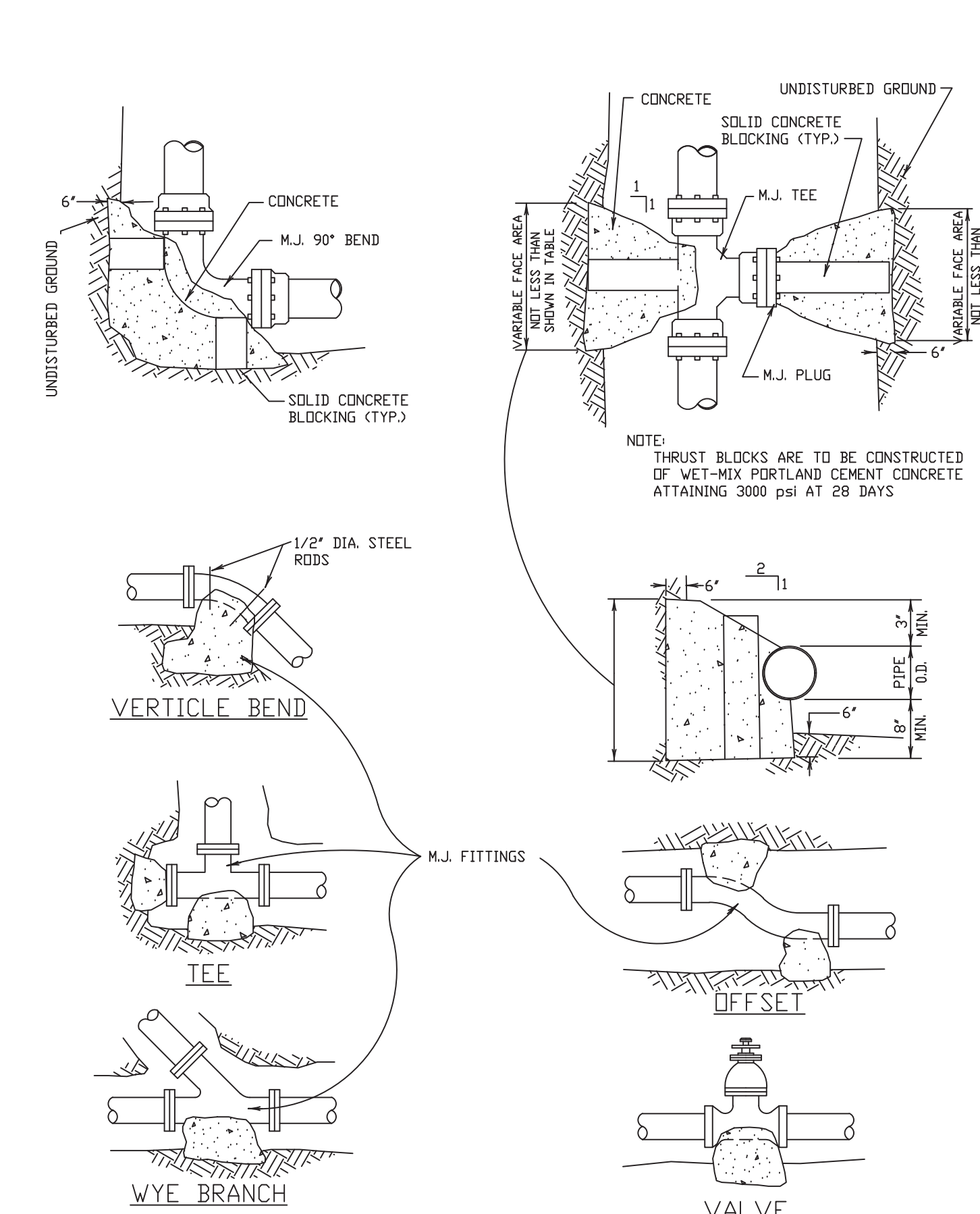
DRAWN BY :	DATE : 2/93	JOB NO.	DRAWING NO.
APPROVED BY : GM.	SCALE : HOR. NONE VER.		Of



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-D1) & 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. OR 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.

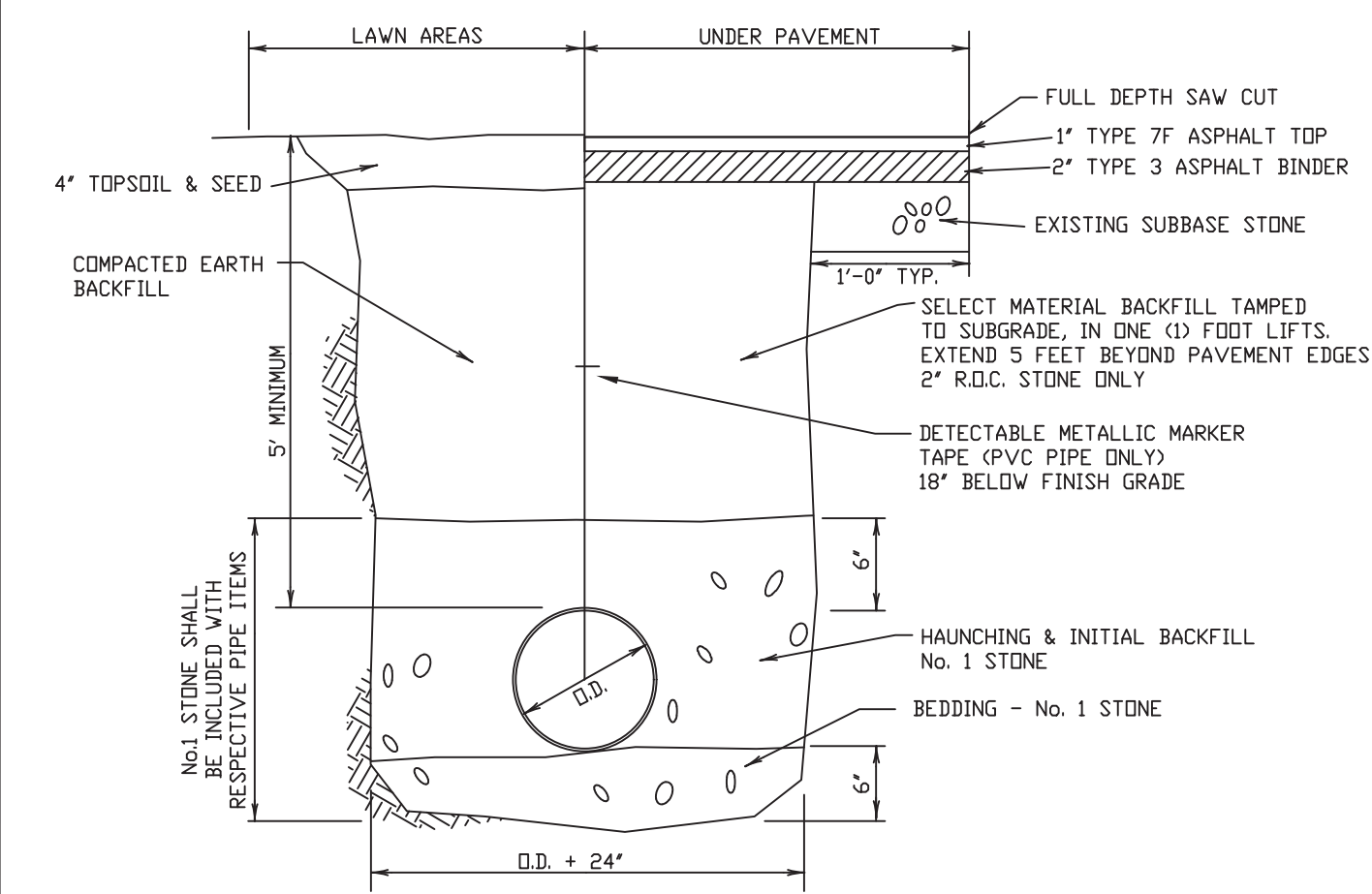
CORPORATION STOPS SHALL HAVE THREADS CONFORMING TO A.W.W.A. C 800-66.

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.

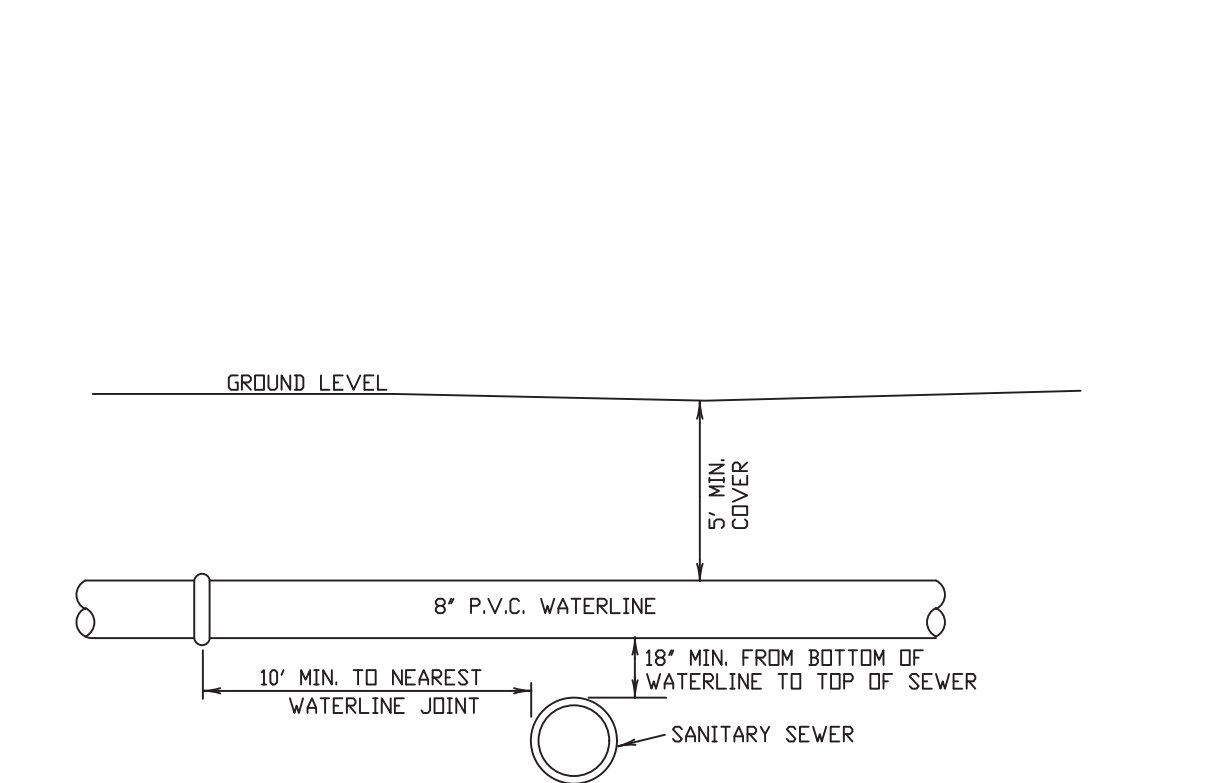
BACTERIOLOGICAL SAMPLES SHALL BE TAKEN FROM SAMPLING POINTS LOCATED AT APPROXIMATELY 1000 FT. INTERVALS (MAXIMUM) & AT THE BEGINNING & END OF EACH SECTION.

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

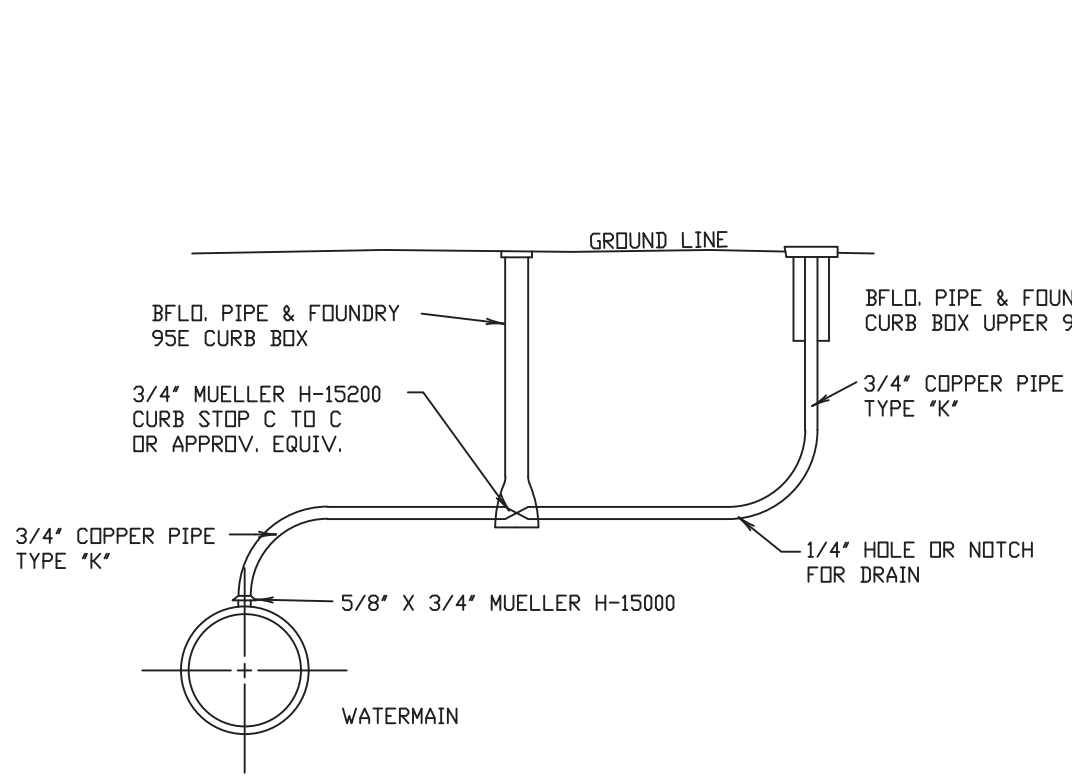
FOR ALL ROAD CROSSINGS USING JACK & BORING METHOD, SEE TOWN OF WEST SENeca SANITARY SEWER DETAILS SHEET DATED 9/84



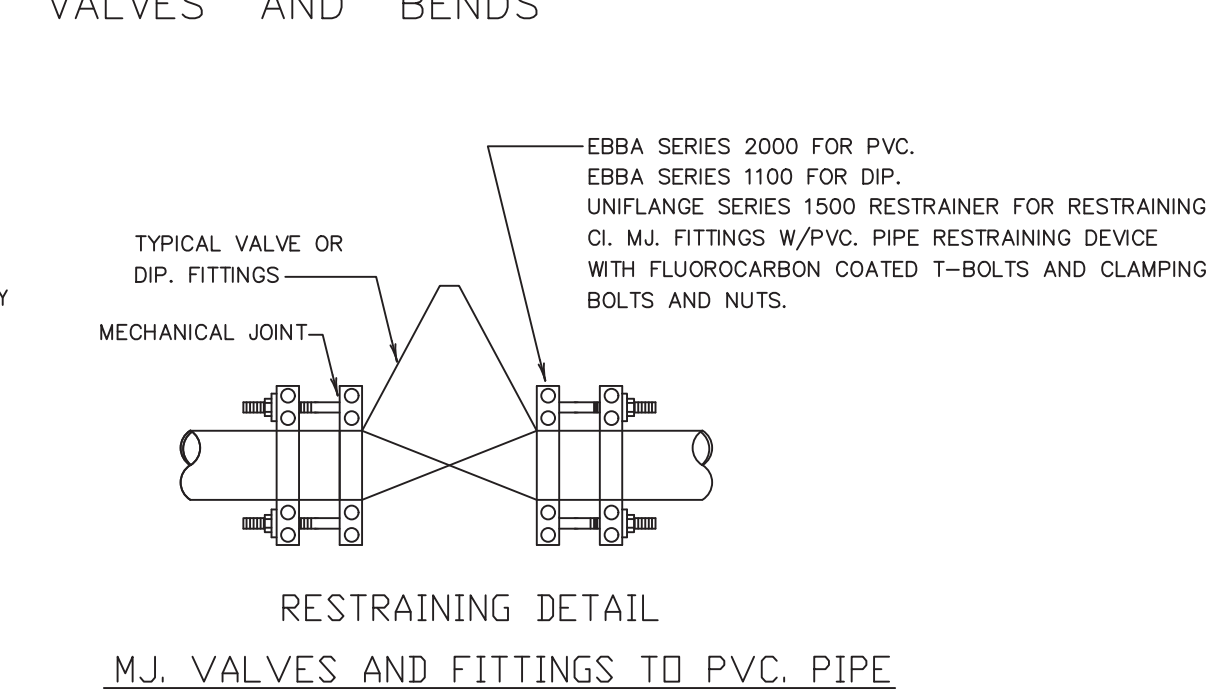
P.V.C. OR D.I. PIPE PAYMENT LIMITS



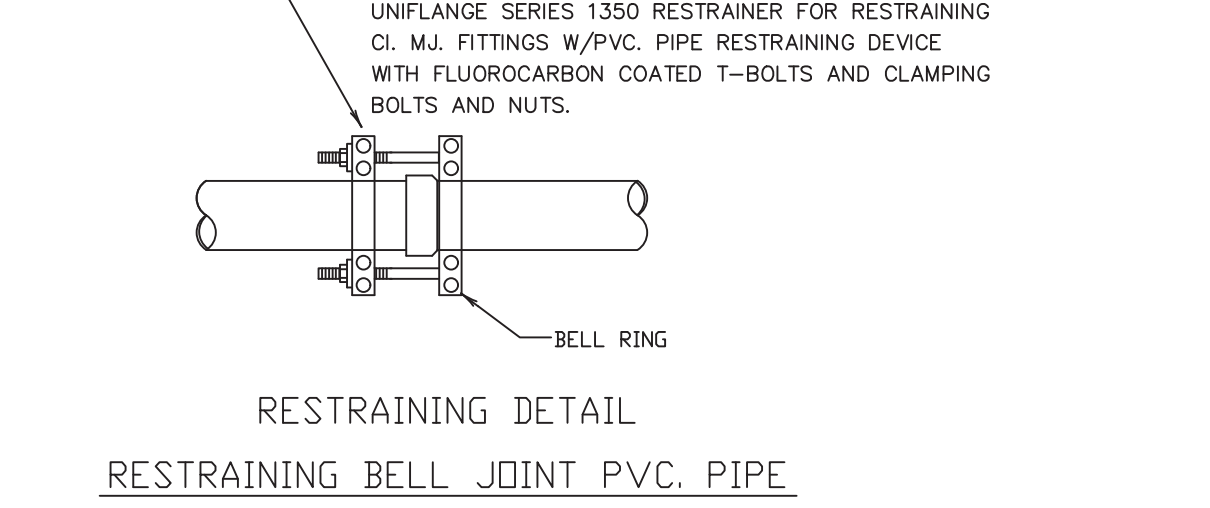
TYPICAL WATER LINE - SEWER LINE CROSSING



TYPICAL AIR VENT ASSEMBLY



RESTRAINING DETAIL M.J. VALVES AND FITTINGS TO PVC PIPE



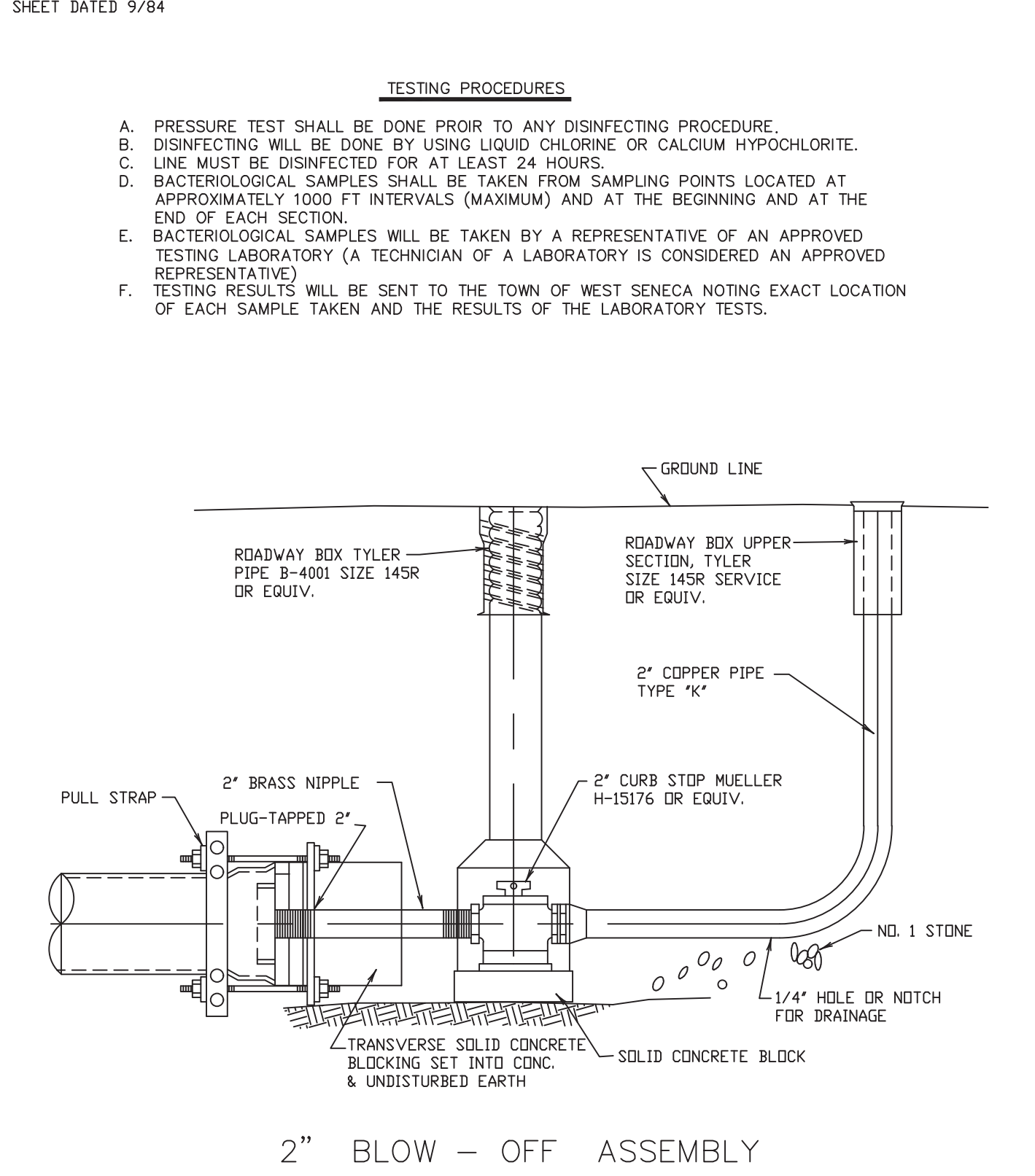
RESTRAINING DETAIL RESTRAINING BELL JOINT PVC PIPE

NOTE: ALL VALVES AND FITTINGS ARE TO BE THRUST RESTRAINED

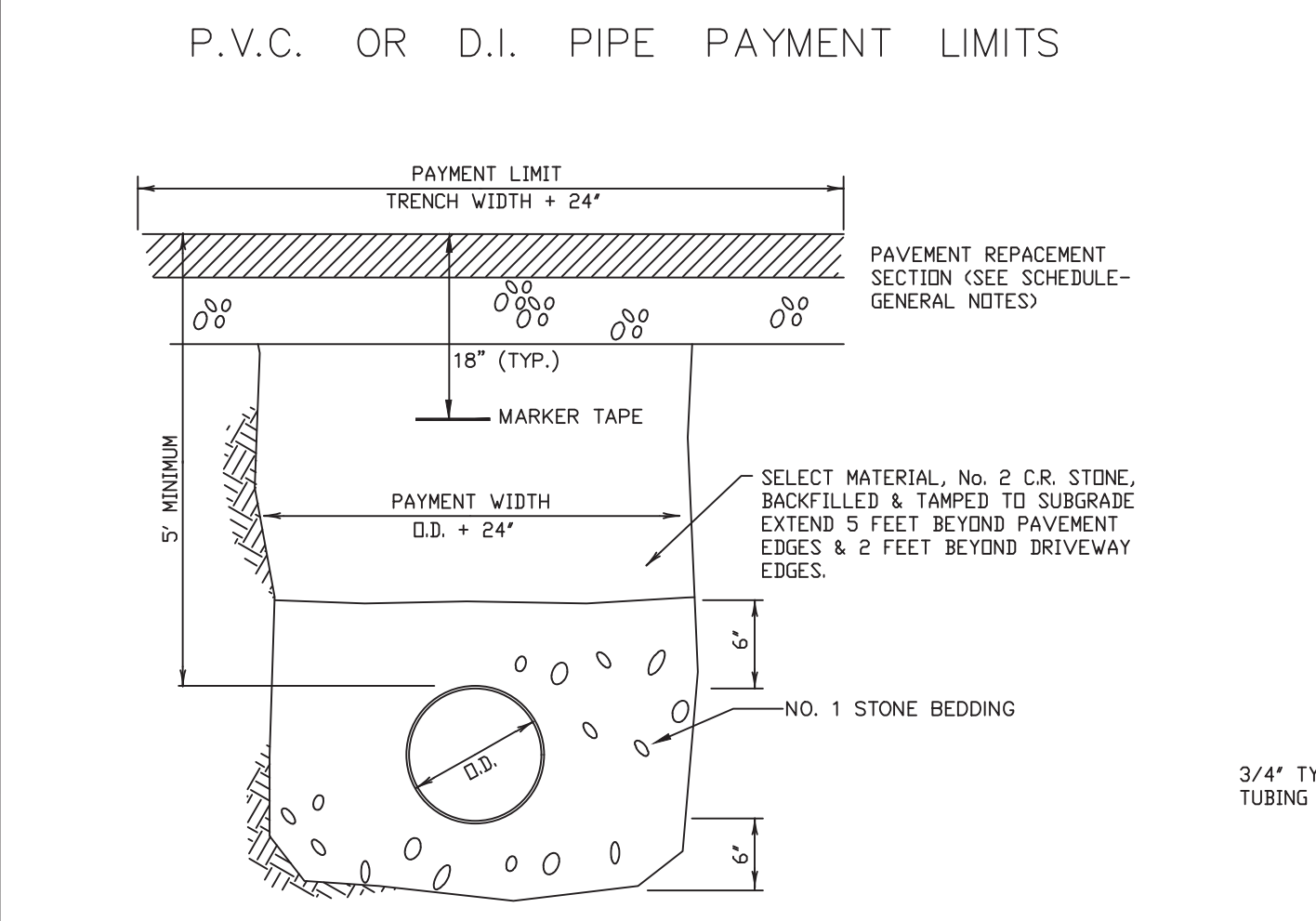
LENGTH OF REQUIRED THRUST RESTRAINT IN FEET (EACH SIDE OF FITTING)

PIPE SIZE	11 1/4" BEND	22 1/2" BEND	45" BEND	90" BENDS, VALVES, TEES AND DEAD ENDS (NOT HYDRANT TEES)
6" PVC.	13	25	50	120
8" PVC.	15	30	59	122
10" PVC.	16	35	68	141
12" PVC.	20	39	76	158
8" DIP.	10	20	38	79

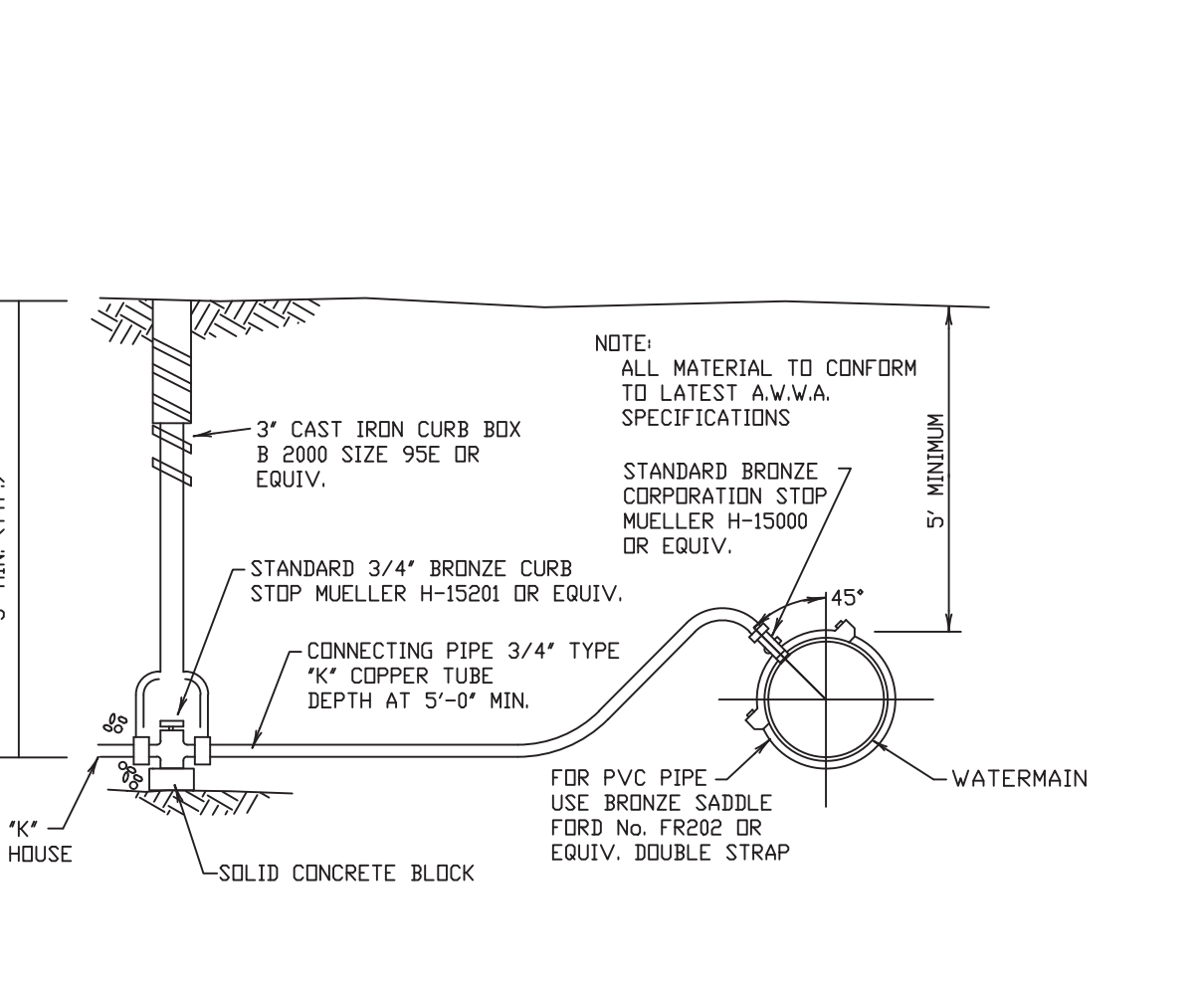
TYPICAL RESTRAINED JOINT DETAILS AND TABLE



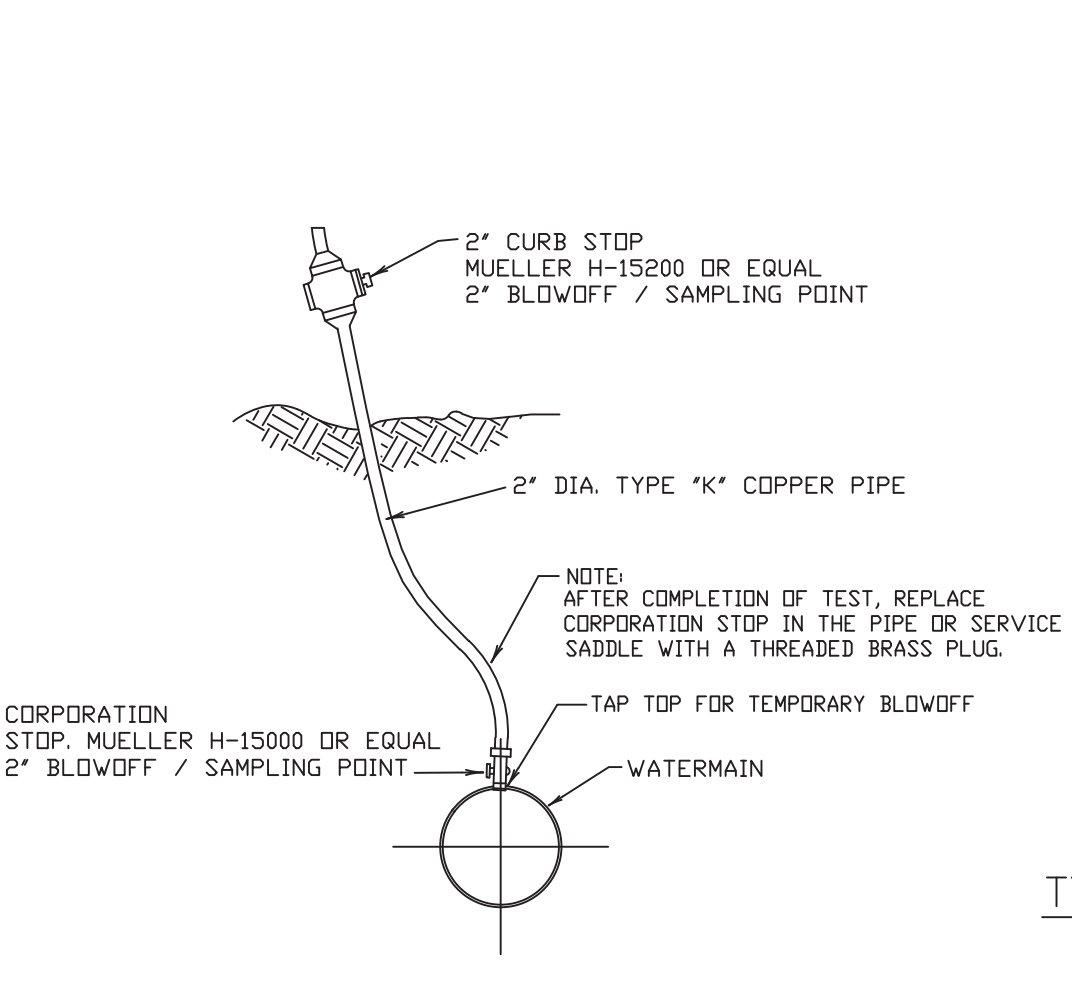
2" BLOW-OFF ASSEMBLY



ROADWAY / DRIVEWAY CROSSINGS



TYPICAL WATER SERVICE LINE INSTALLATION



TEMPORARY BLOW-OFF / SAMPLING POINT



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

NO.	DATE	DESCRIPTION	BY
4	6/16/09	TEMP./BLOW-OFF/SAMP. POINT	GB.
3	5/8/08	RESTRAINED JOINT DETAIL TABLE	RP.
2	4/21/08	ECWA. REV. (MIN. 5' COVER)	GB.
1	1/2/07	ECWA. REVISIONS	DS.