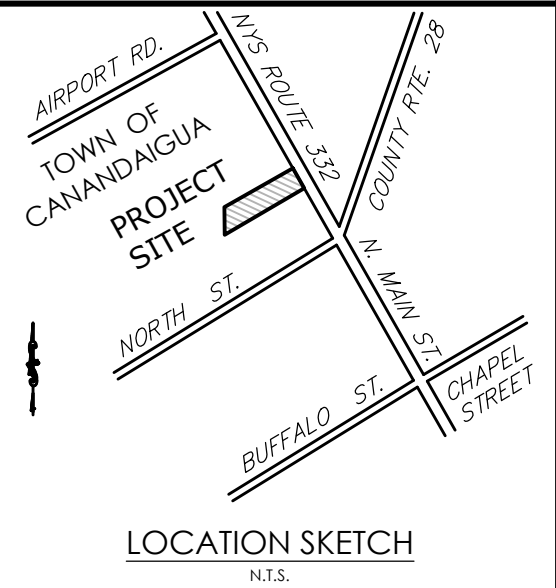
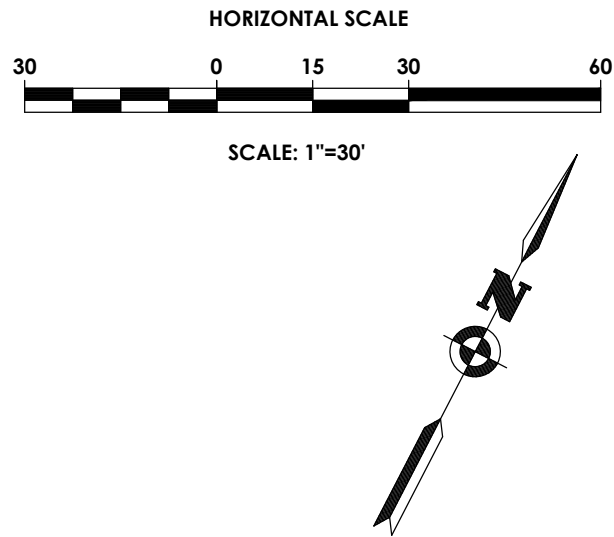


SITE DEVELOPMENT PLANS FOR
ROYAL CAR WASH
TOWN OF CANANDAIGUA, ONTARIO COUNTY, NEW YORK
P.N. 20182698.0001



Client:
ROYAL WASH CANANDAIGUA, LLC
2851 MONROE AVE
ROCHESTER, NY 14618

PASSERO ASSOCIATES
242 West Main Street Suite 100
Rochester, New York 14614
(585) 325-1000
Fax: (585) 325-1691
Principal-in-Charge: Jess D. Sudol, P.E.
Project Manager: David L. Cox, P.E.
Designed by: Jon Daniels



Revisions			
No.	Date	By	Description

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COVER

ROYAL CAR WASH

Town/City: Canandaigua
County: Ontario State: New York

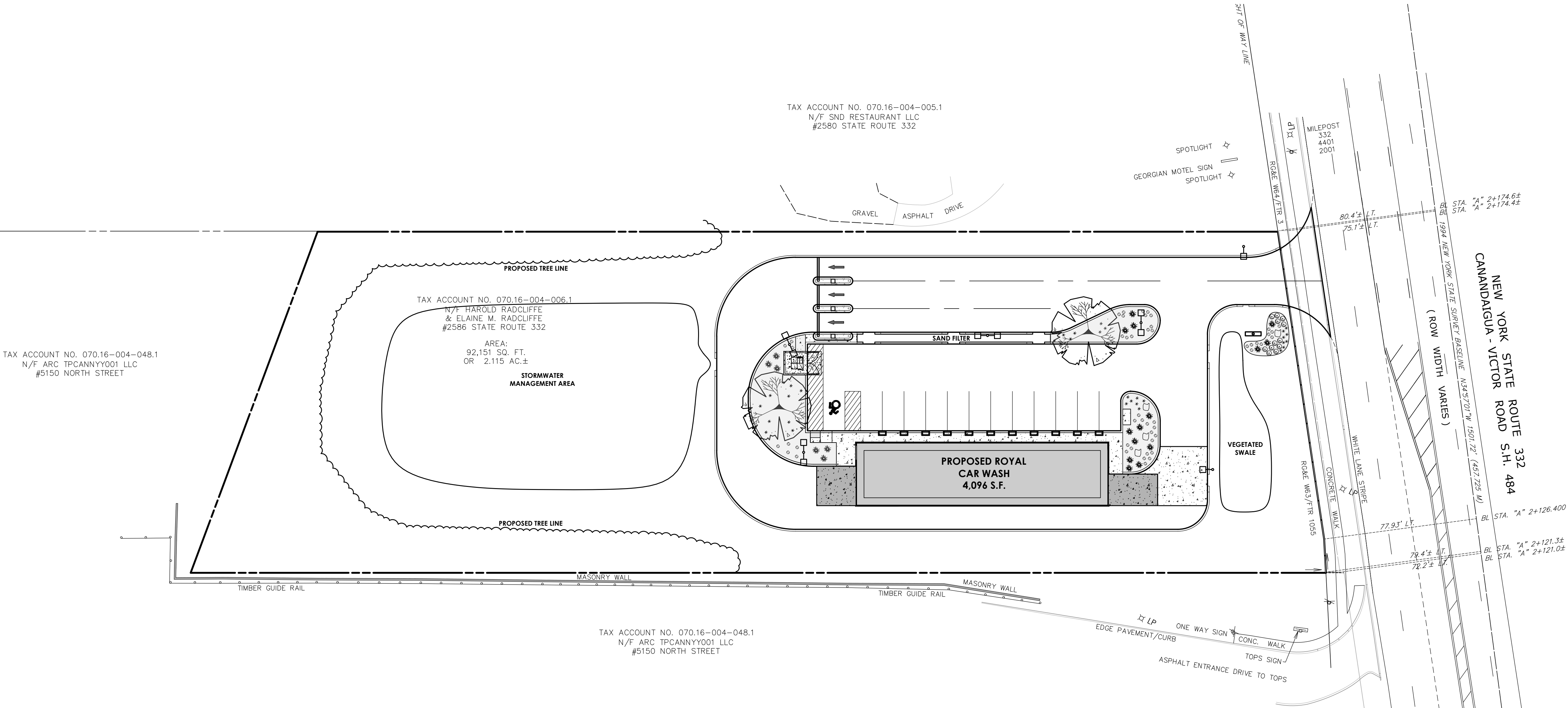
Project No.
20182698.0001

Drawing No. C101	Sheet No. 1
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Scale:
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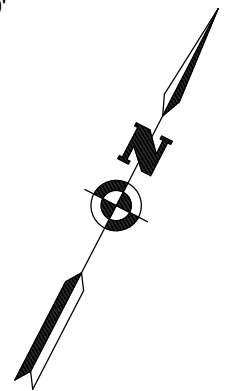
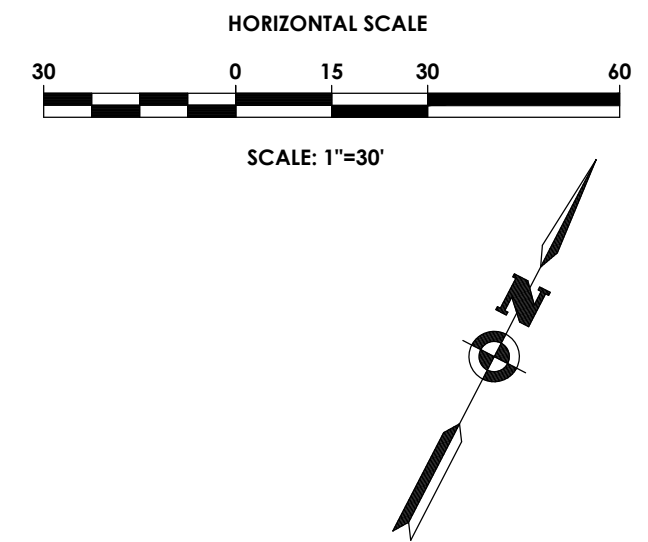
Date
MARCH 2019

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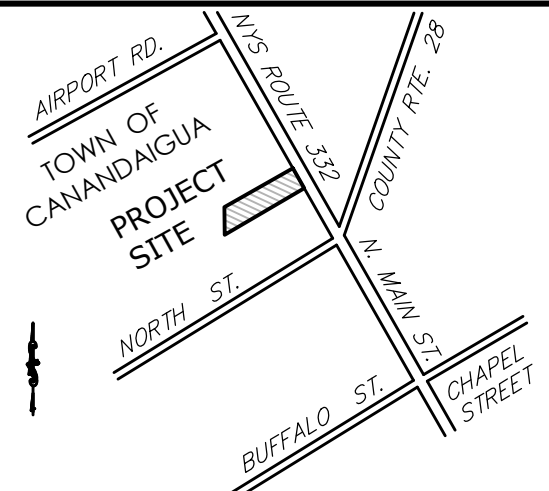


NYSDOT DESIGNER CONTACT STATEMENT
PASSERO ASSOCIATES IS RESPONSIBLE FOR THE DESIGN OF THIS PROJECT. DAVID COX, P.E. IS THE DESIGNER AND IS FAMILIAR WITH NYSDOT STANDARDS AND REQUIREMENTS AND SHALL BE CONTACTED AT (585) 325-1000 TO RESOLVE ISSUES OR PROBLEMS DURING CONSTRUCTION. ALL REVISIONS, INCLUDING REVISIONS NECESSARY DUE TO FIELD CONDITIONS, SHALL BE APPROVED BY THE NYSDOT.

	PROPERTY BOUNDARY
	RIGHT OF WAY
	EXISTING CENTER LINE ROAD
	SETBACK
	PROPOSED EASEMENT LINE
	EXISTING EASEMENT LINE
	PROPOSED BUILDING
	PROPOSED PARKING COUNT
	PROPOSED CONCRETE
	PROPOSED ACCESS RAMP
	PROPOSED PAVEMENT STRIPING
	PROPOSED CURB
	PROPOSED SIGN
	EXISTING SIGN
	PROPOSED LIGHT POLE
	PROPOSED BUILDING MOUNTED LIGHT
	EXISTING FEATURE TO BE REMOVED
	PROPOSED TREE LINE
	EXISTING TREE LINE TO BE MODIFIED

**PA**

PASSERO ASSOCIATES
engineering architecture



LOCATION SKETCH

N.T.S.

Client:
ROYAL WASH CANANDAIGUA, LLC
2851 MONROE AVE
ROCHESTER, NY 14618

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Rochester, New York 14614

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Project Manager	David L. Cox, P.E.
Designed by	Jon Daniels



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ROYAL CAR WASH

Town/City: Canandaigua
County: Ontario State: New York

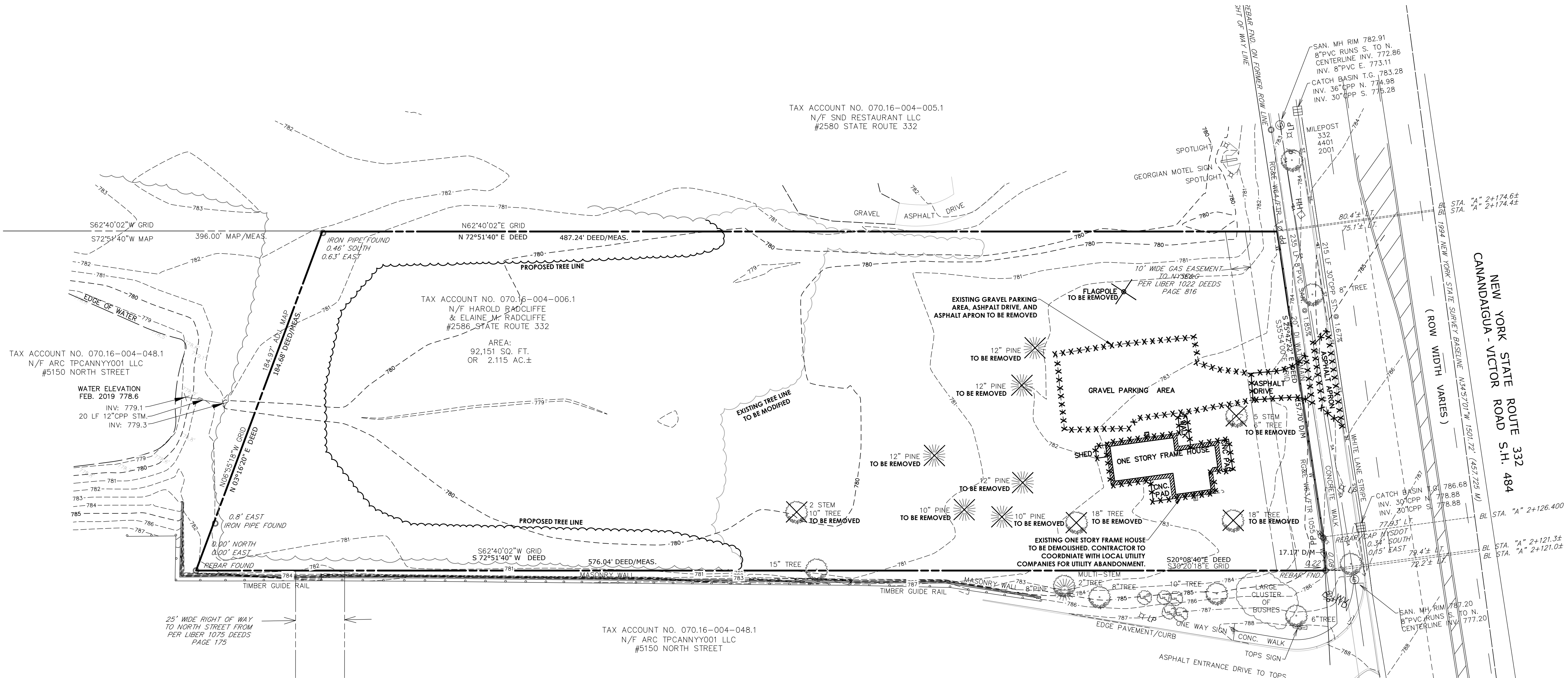
Project No.
20182698.0001

Drawing No.	Sheet No.
C102	2

Scale: 1" = 30'

Date MARCH 2019

NOT FOR CONSTRUCTION



NYSDOT NOTE:
CONTRACTOR TO REMOVE THE ASPHALT APRON AND DRIVEWAY AND RESTORE GROUNDS WITHIN THE NYSDOT RIGHT OF WAY PER NYSDOT SPECIFICATIONS

SITE DATA

1. TAX ACCOUNT NUMBER: 070.16-004-006.1
2. PARCEL ADDRESS: 2586 STATE ROUTE 332, CANANDAIGUA, NY 14424
3. TOTAL PARCEL AREA: 2.115 ACRES OR 92,151 S.F.
TOTAL BUILDING AREA: 4,096 S.F.
TOTAL DISTURBANCE AREA: 21.5 ACRES
TOTAL IMPERVIOUS AREA: 20.7 ACRES (33 %)
GREEN SPACE: 21.4 ACRES (67%)
4. ZONING: CC - COMMUNITY COMMERCIAL DISTRICT
MUO - MIXED USE OVERLAY DISTRICT
5. EXISTING USE: VACANT
PROPOSED USE: AUTOMATED CAR WASH
6. THERE ARE NO FEDERALLY REGULATED WETLANDS ON THIS PARCEL ACCORDING TO THE USACOE FEDERAL WETLAND INVENTORY.
7. THERE ARE NO STATE REGULATED WETLANDS ON THIS PARCEL ACCORDING TO NYSDEC WETLAND INVENTORY.
8. PUBLIC WATER WILL BE PROVIDED BY THE TOWN OF CANANDAIGUA WATER DEPARTMENT, CANANDAIGUA-FARMINGTON DISTRICT (WD241).
9. ELECTRIC SERVICE WILL BE SUPPLIED BY RG&E.
10. NATURAL GAS SERVICE WILL BE SUPPLIED BY NYSEG.
11. SANITARY SEWER SERVICE WILL BE PROVIDED BY THE TOWN OF CANANDAIGUA.
12. STORM SEWER AND DRAINAGE FACILITIES WILL BE PRIVATELY OWNED.
13. ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE CURRENT DEVELOPMENT STANDARDS AND SPECIFICATIONS OF THE TOWN OF CANANDAIGUA.

ZONING ANALYSIS		
CC - COMMUNITY COMMERCIAL DISTRICT & MUO - MIXED USE OVERLAY DISTRICT		
	REQUIRED	PROPOSED
REQUIRED LOT SIZE	1 ACRE	2.115 ACRES
MINIMUM LOT WIDTH	175'	175'
MAXIMUM BUILDING HEIGHT	35'	<35'
PRINCIPAL BUILDING DIMENSIONAL REQUIREMENTS		
MINIMUM FRONT YARD SETBACK	100'	101'
MINIMUM SIDE YARD SETBACK	20'	32'
REAR YARD SETBACK	40'	295'
MAX BUILDING COVERAGE	35%	~5%
MINIMUM SETBACK FROM SIDE PROPERTY LINE TO DRIVE AISLE	20'	6' AT PROPERTY LINE**
MINIMUM PARKING STALLS (MOTOR VEHICLE SERVICE STATION)	1 SPACE PER 100 S.F. OF GROSS FLOOR AREA = 41	13 INCLUDES 1 ACCESSIBLE STALL**
MINIMUM STALL SIZE	9' x 20'	11' x 20'

VARIANCE REQUIRED**

SITE DISTANCE		
	REQUIRED	PROPOSED
TO LEFT	380'	>1000'
TO RIGHT	440'	500' (TO INTERSECTION)



BUILDING MOUNTED SIGNAGE (x2)
NORTH & SOUTH ELEVATION
48"-80" x 192" = 77.3 SF



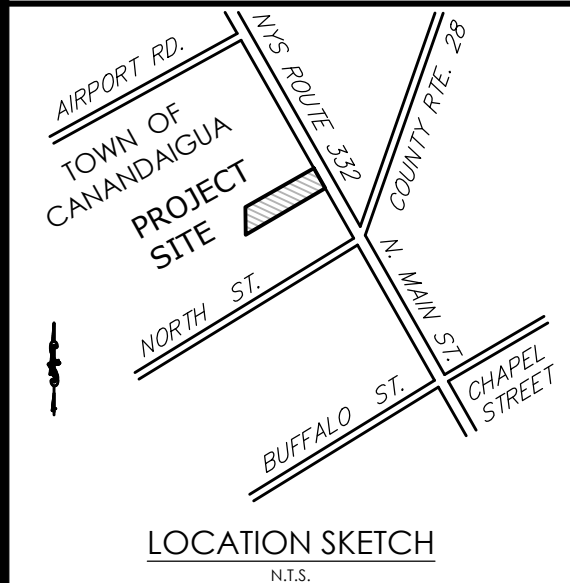
BUILDING MOUNTED SIGNAGE (x1)
ABOVE TUNNEL EXIT FACING RTE 332
36" x 130" = 32.5 SF

HORIZONTAL SCALE
30 0 15 30 60
SCALE: 1"=30'

LEGEND:

- PROPERTY BOUNDARY
- RIGHT OF WAY
- EXISTING CENTER LINE ROAD
- SETBACK
- PROPOSED EASEMENT LINE
- EXISTING EASEMENT LINE
- PROPOSED BUILDING
- PROPOSED PARKING COUNT
- PROPOSED CONCRETE
- PROPOSED ACCESS RAMP
- PROPOSED PAVEMENT STRIPING
- PROPOSED CURB
- PROPOSED SIGN
- EXISTING SIGN
- PROPOSED LIGHT POLE
- PROPOSED BUILDING MOUNTED LIGHT

PA
PASSERO ASSOCIATES
engineering architecture



Client: ROYAL WASH CANANDAIGUA, LLC
2851 MONROE AVE
ROCHESTER, NY 14618

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Rochester, New York 14614
Principal-in-Charge: Jess D. Sudol, P.E.
Project Manager: David L. Cox, P.E.
Designed by: Jon Daniels



Revisions			
No.	Date	By	Description

SITE PLAN

ROYAL CAR WASH

Town/City: Canandaigua
County: Ontario State: New York

Project No.
20182698.0001

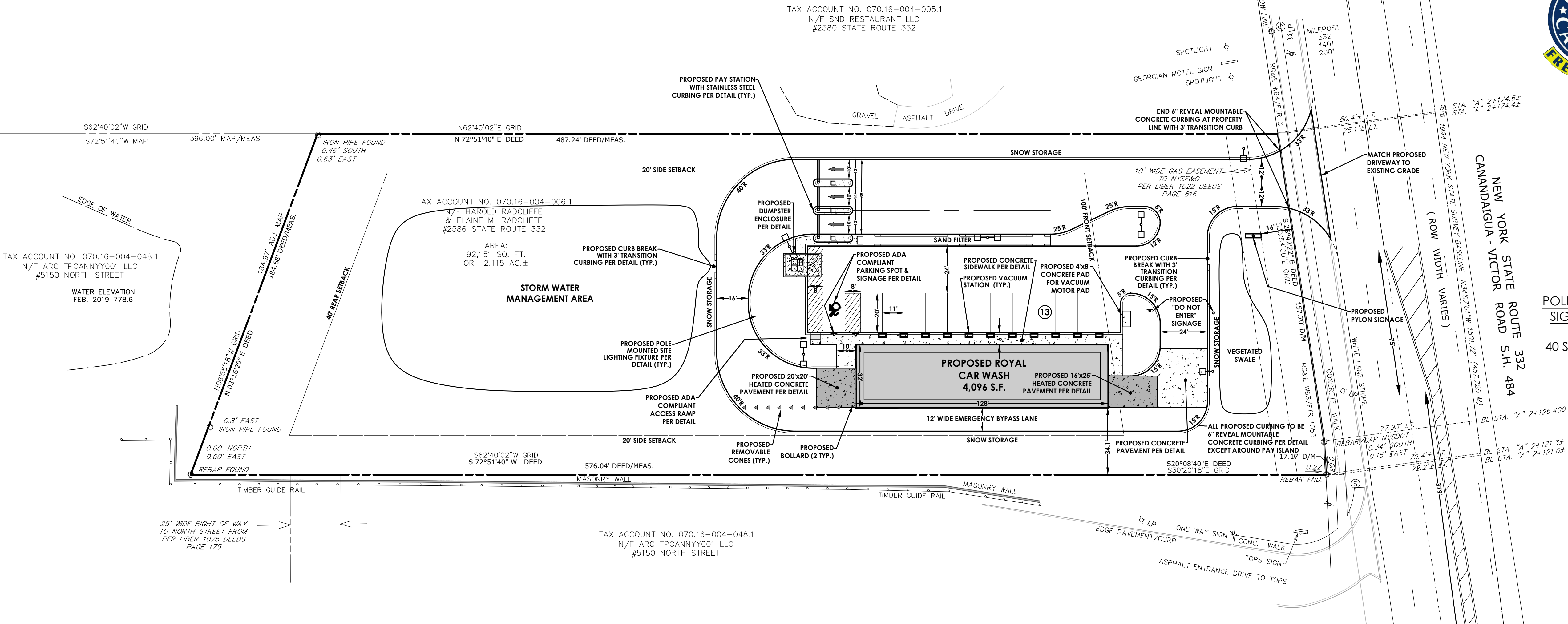
Drawing No.
C103

Sheet No.
3

Scale:
1" = 30'

Date
MARCH 2019

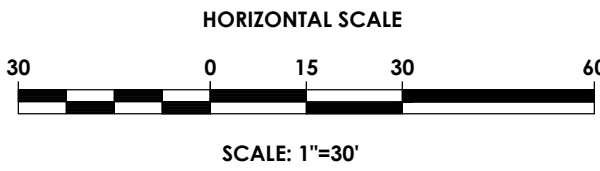
NOT FOR CONSTRUCTION



APPROVED BY	PLANNING BOARD CHAIRPERSON	DATE	
APPROVED BY	TOWN ENGINEER	DATE	
APPROVED BY	TOWN OF CANANDAIGUA HIGHWAY SUPERINTENDENT	DATE	
APPROVED BY	CANANDAIGUA-FARMINGTON WATER/SEWER DISTRICT SUPERINTENDENT	DATE	

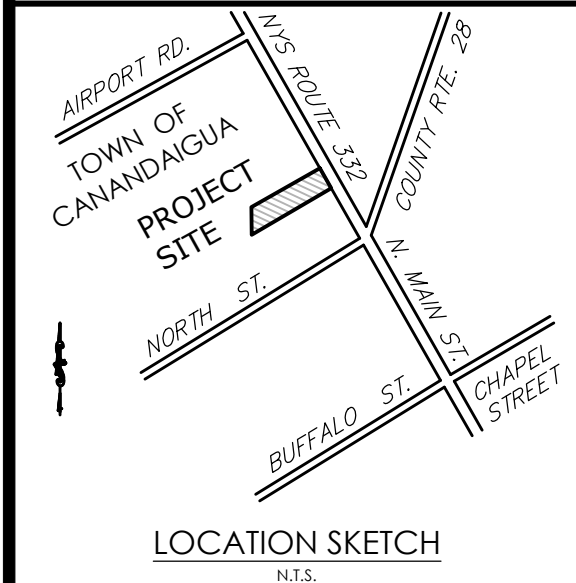
LEGEND:

	PROPERTY BOUNDARY
	R.O.W.
	EXISTING CENTER LINE ROAD
	EXISTING BUILDING
	EXISTING FENCE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	PROPOSED BUILDING
	PROPOSED CONCRETE
	PROPOSED SIGN
	PROPOSED LIGHT
	PROPOSED STORM SEWER, INLET, MH, CB & END SECTION
	EXISTING STORM SEWER & MH
	PROPOSED WATER SERVICE W/ HYDRANT & VALVE
	EXISTING WATER SERVICE & VALVE
	PROPOSED SANITARY SEWER AND MANHOLE
	EXISTING SANITARY SEWER AND MANHOLE
	EXISTING ELECTRIC LINE & POLE
	EXIST. LIGHT POLE
	EXIST. ELECTRIC MANHOLE
	EXIST. ELECTRIC HANDHOLE
	EXIST. GAS VALVE
	EXIST. GAS MAIN
	EXIST. WATER MAIN
	EXIST. ELECTRIC LINE
	PROPOSED UNDERGROUND ELECTRIC



SEE SHEET C201-C204 FOR
UTILITY NOTES & DETAILS

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Revisions

No.	Date	By	Description

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UTILITY PLAN

ROYAL CAR WASH

Town/City: Canandaigua
County: Ontario State: New York

Project No.
20182698.0001

Drawing No. **C104** Sheet No. **4**

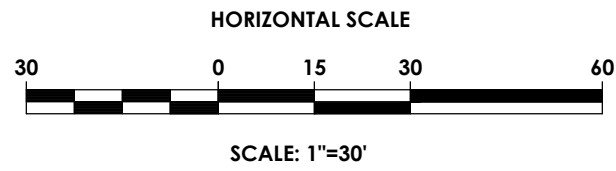
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Date
MARCH 2019

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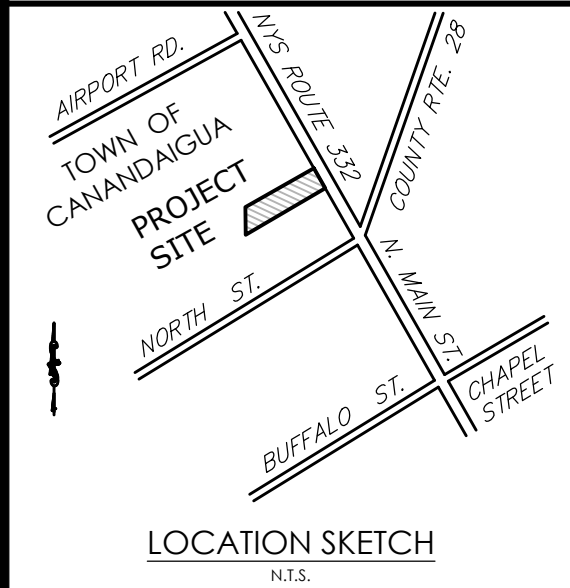
LEGEND:

- PROPERTY BOUNDARY
R.O.W.
EXISTING CENTER LINE ROAD
EXISTING BUILDING
EXISTING FENCE
EXISTING EASEMENT LINE
PROPOSED EASEMENT LINE
PROPOSED BUILDING
PROPOSED CONCRETE
PROPOSED SIGN
PROPOSED LIGHT
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
PROPOSED MAJOR CONTOUR
PROPOSED MINOR CONTOUR
SILT FENCE
PROPOSED STORM SEWER, INLET
MH, CB & END SECTION
EXISTING STORM SEWER & MH
PROPOSED WATER SERVICE
W/ HYDRANT & VALVE
EXISTING WATER SERVICE
& VALVE
PROPOSED SANITARY SEWER
AND MANHOLE
EXISTING SANITARY SEWER AND
MANHOLE
EXISTING ELECTRIC LINE & POLE
EXIST. LIGHT POLE
EXIST. ELECTRIC MANHOLE
EXIST. ELECTRIC HANDHOLE
EXIST. GAS VALVE
PROPOSED STONE CHECK DAM
PROPOSED INLET PROTECTION
PROPOSED TREE/BRUSH LINE
EXISTING TREE/BRUSH LINE
SILT FENCE



SEE SHEET C201-C204 FOR
GRADING NOTES & DETAILS

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Revisions

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GRADING & EROSION
CONTROL PLAN

ROYAL CAR WASH

Town/City: Canandaigua
County: Ontario State: New York

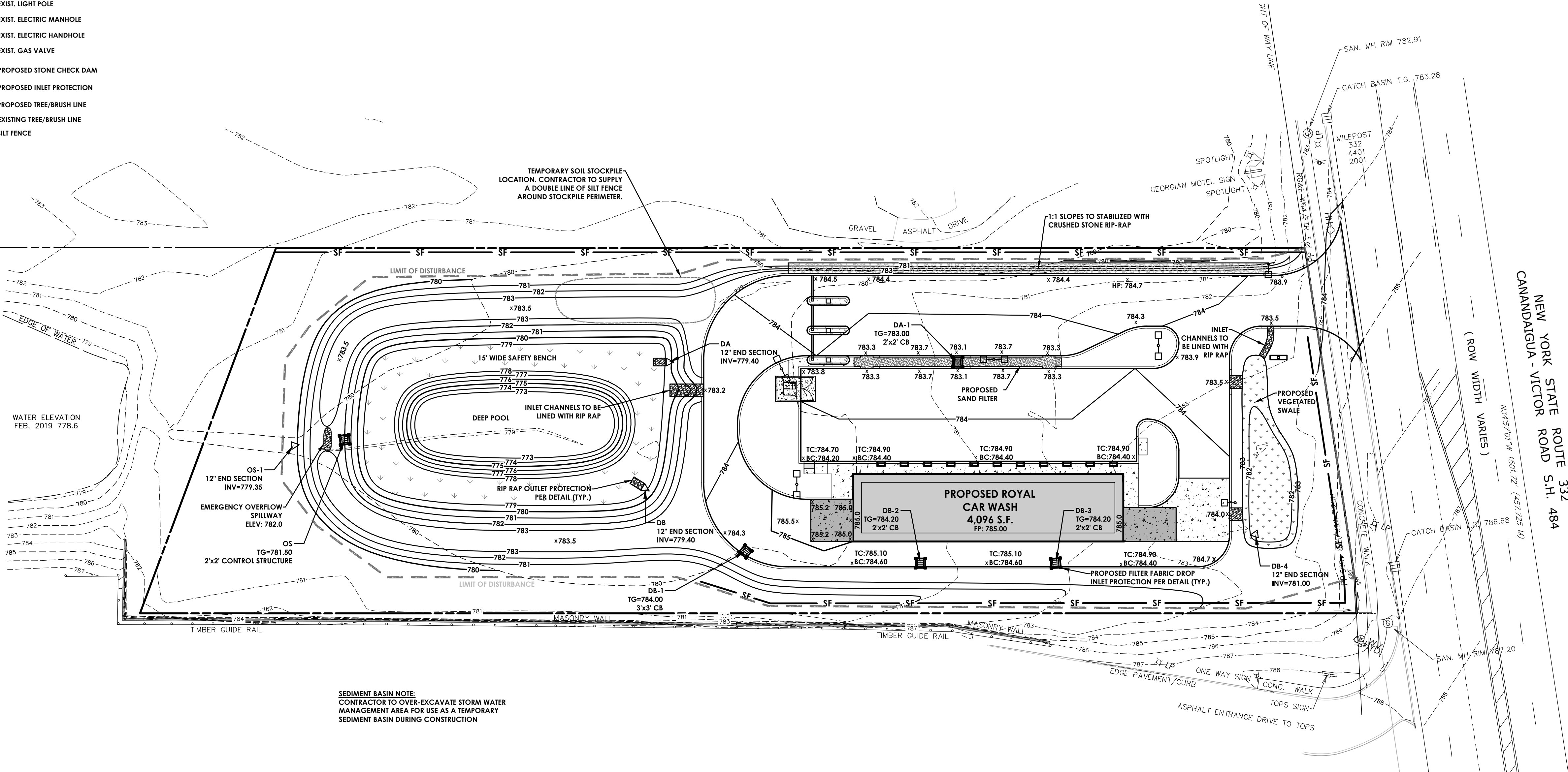
Project No.
20182698.0001

Drawing No. C105
Sheet No. 5

Scale: 1" = 30'

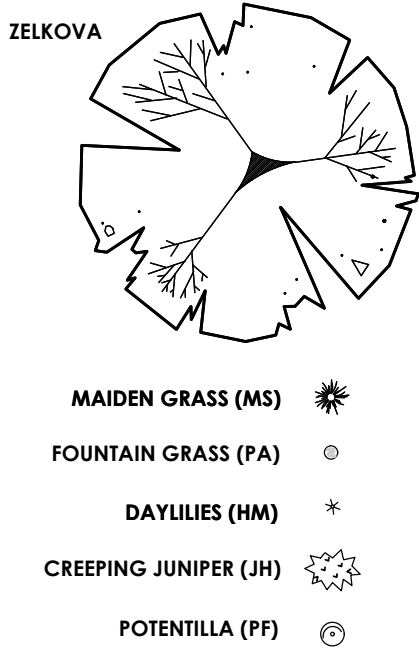
Date
MARCH 2019

APPROVED BY _____ DATE _____
PLANNING BOARD CHAIRPERSON
APPROVED BY _____ DATE _____
TOWN ENGINEER
APPROVED BY _____ DATE _____
TOWN OF CANANDAIGUA HIGHWAY SUPERINTENDENT
APPROVED BY _____ DATE _____
CANANDAIGUA-FARMINGTON WATER/SEWER DISTRICT SUPERINTENDENT



SEDIMENT BASIN NOTE:
CONTRACTOR TO OVER-EXCAVATE STORM WATER
MANAGEMENT AREA FOR USE AS A TEMPORARY
SEDIMENT BASIN DURING CONSTRUCTION

PLANT SYMBOLS



PLANT SCHEDULE							
KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE	MATURE HEIGHT	SPACING	COMMENTS
DECIDUOUS TREES							
ZS	2	ZELKOVA	ZELKOVA SERRATA 'GREEN VASE'	2-2 1/2' CAL. B&B	60-80'	AS SHOWN	40-50' SP
GRASSES AND PERENNIALS							
HM	30	DAYLILIES	HEMEROCALLIS 'STELLA DE ORO'	NO. 2 CONT.	12"	AS SHOWN	12" SP.
MS	20	MAIDEN GRASS	MISCANTHUS SINENSIS 'ADAGIO'	NO. 2 CONT.	3-4'	AS SHOWN	3-4' SP.
PA	48	FOUNTAIN GRASS	PENNISETUM ALOPECUROIDES 'HAMELN'	NO. 3 CONT	1.5-2.5'	AS SHOWN	1.5-2.5'
SHRUBS							
PF	12	PINK BEAUTY POTENTILLA	POTENTILLA FRUTICOSA 'PINK BEAUTY'	NO. 3 CONT	3'	AS SHOWN	3' SP.

ROCK MULCH SHALL BE 3-5" WASHED RIVER ROCK, UNIFORM IN SIZE. ALL FINES SHALL BE SCREENED TO WITHIN 1/4" TOLERANCE. MATERIAL SHALL BE FREE OF ORGANIC AND INORGANIC DEBRIS AND TRASH.

SEE SHEET C201-C204 FOR
LIGHTING & LANDSCAPING
NOTES & DETAILS

HORIZONTAL SCALE

30 0 15 30 60

SCALE: 1"=30'

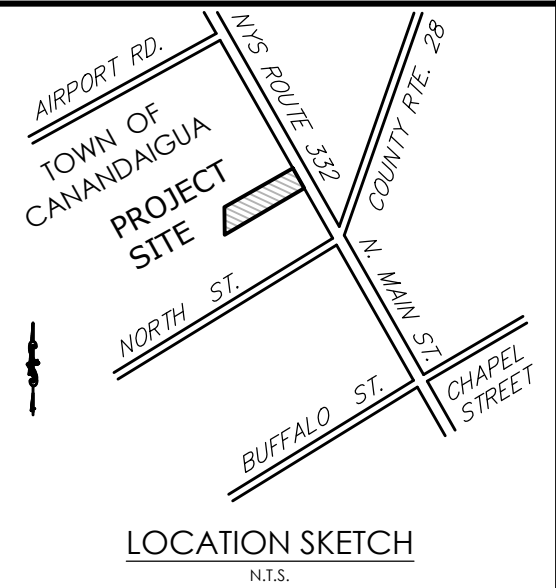
LEGEND:

- PROPERTY BOUNDARY
- RIGHT OF WAY
- EXISTING CENTER LINE ROAD
- SETBACK
- PROPOSED EASEMENT LINE
- EXISTING EASEMENT LINE
- PROPOSED BUILDING
- PROPOSED PARKING COUNT
- PROPOSED CONCRETE
- PROPOSED ACCESS RAMP
- PROPOSED PAVEMENT STRIPING
- PROPOSED CURB
- PROPOSED SIGN
- EXISTING SIGN
- PROPOSED LIGHT POLE
- PROPOSED FENCE
- PROPOSED BUILDING MOUNTED LIGHT
- PROPOSED DECORATIVE BOULDER
- PROPOSED VACUUM STATION

PA

PASSERO ASSOCIATES

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LIGHTING &
LANDSCAPING PLAN

ROYAL CAR WASH

Town/City: Canandaigua
County: Ontario State: New York

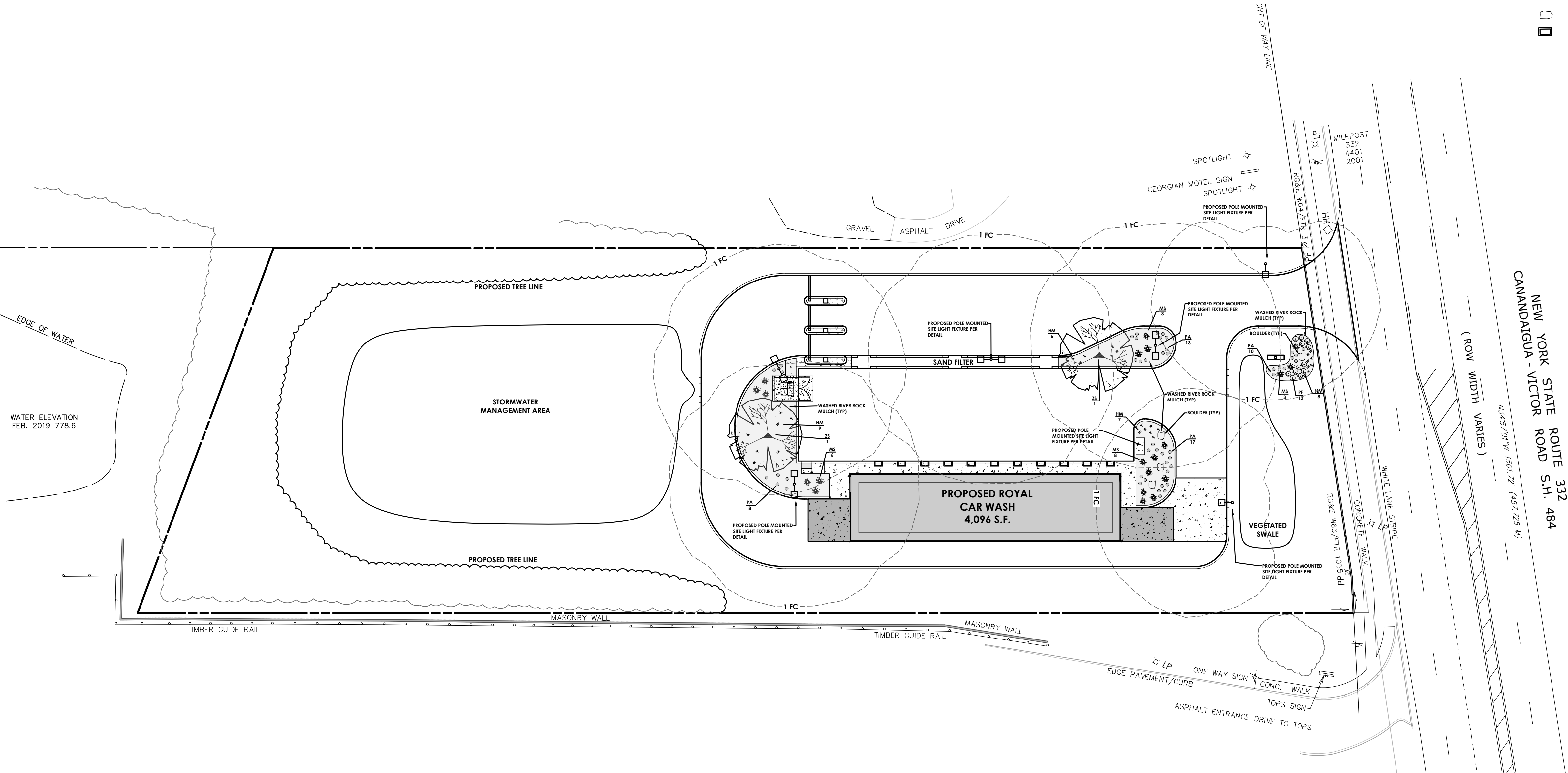
Project No.
20182698.0001

Drawing No. C106 Sheet No. 6

Scale: 1" = 30'

Date
MARCH 2019

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APPROVED BY _____ DATE _____
PLANNING BOARD CHAIRPERSON

APPROVED BY _____ DATE _____
TOWN ENGINEER

APPROVED BY _____ DATE _____
TOWN OF CANANDAIGUA HIGHWAY SUPERINTENDENT

APPROVED BY _____ DATE _____
CANANDAIGUA-FARMINGTON WATER/SEWER DISTRICT SUPERINTENDENT

CONSTRUCTION SEQUENCE FOR GRADING AND EROSION CONTROL:

1. INSTALL PERIMETER SILT FENCE.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
3. INSTALL POND AREAS.
4. CONSTRUCT DRAINAGE SWALES ALONG PROPERTY LINES AS SHOWN.
5. CLEAR AND GRUB THE PROJECT IMPROVEMENTS AREAS.
6. STRIP TOPSOIL AND TRUCK EXCESS OFF-SITE.
7. GRADE IMPROVEMENTS AREAS WITHIN THE PROJECT SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 7 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 7 DAYS OF THE LAST DISTURBANCE.
8. CONSTRUCT DROP INLET PROTECTION DEVICES AFTER STORM SEWER INSTALLATION AS SHOWN ON THIS PLAN.
9. REPLACE TOPSOIL AND FINE GRADE.
10. HYDRO-SEED ALL DISTURBED AREAS WITHIN 7 DAYS AFTER FINAL GRADING. CONTRACTOR IS RESPONSIBLE TO RESEED IF GRADING IS UNSATISFACTORY.
11. UPON APPROVAL OF THE TOWN, REMOVE ALL TEMPORARY SITUATION CONTROLS.
12. SLOPES SHALL NOT EXCEED 1" VERTICAL TO 3" HORIZONTAL MAX. MAINTAIN 1:4 WHERE POSSIBLE.
13. MINIMUM OF 6" OF TOPSOIL IS TO BE PLACED ON ALL GRASS AREAS.
14. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BASED UPON ACTUAL FIELD CONDITIONS ADOE. CONTRACTOR SHALL PROVIDE FOR THIS COST IN HIS CONTRACT.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITUATION AND EROSION CONTROL MEASURES FROM INSTALLATION THROUGH MAINTENANCE AND REMOVAL AFTER REVEGETATION HAS BEEN ESTABLISHED.
16. ALL END SECTIONS WILL BE PROVIDED WITH RIP-RAP APRONS.
17. ALL EROSION AND SEDIMENT CONTROL METHODS WILL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
18. ALL EROSION CONTROL MEASURES WILL BE REMOVED AFTER APPROVED BY QUALIFIED PROFESSIONAL.

AT THE VERY MINIMUM, EROSION CONTROL SHALL BE AS SHOWN ON THIS PLAN. EROSION CONTROL MAY CONSIST OF SEDIMENT TRAPS AND/OR ENVIRONMENTAL FENCES. THE CONTRACTOR AND THE DEVELOPER SHALL BE RESPONSIBLE FOR THE INTEGRITY, MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES UNTIL NO LONGER DEEMED NECESSARY BY THE TOWN OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL MAINTAIN THE STORM SEWER SYSTEM UNTIL THE PROJECT IS DEVELOPED AND APPROVED BY THE TOWN AND OWNER. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. THE OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STONE FILL. CORRECTIVE ACTIONS, AS IDENTIFIED BY THE DEVELOPER'S ONSITE REPRESENTATIVE OR A TOWN REPRESENTATIVE, SHALL BE INITIATED WITHIN 24 HOURS OF BEING REPORTED. THE TOWN MAY REVIEW THE PROJECT SITE AT ANY TIME. REVIEW OF EROSION CONTROL MEASURES BY THE TOWN DOES NOT RELIEVE THE DEVELOPER OF HIS OBLIGATIONS TO EXECUTE RESPONSIBLE STANDARD MANAGEMENT PRACTICES

CONSTRUCTION SEQUENCE FOR STEEP SLOPE STABILIZATION/ JUTE MESH INSTALLATION FOR SLOPES OF 1:3 OR GREATER:

1. STRIP TOPSOIL ON SLOPE.
2. GRADE SLOPE PER PLAN. CONTRACTOR SHALL TAKE CARE TO NOT OVER EXCAVATE EMBANKMENT.
3. REPLACE TOPSOIL.
4. TRACK TOPSOIL WITH A BULLDOZER IN A DIRECTION PERPENDICULAR TO THE PROPOSED CONTOUR LINES.
5. IMMEDIATELY SEED AND FERTILIZE TOPSOIL PER PLAN.
6. IMMEDIATELY APPLY JUTE MESH BY UNROLLING THE PRODUCT DOWN THE SLOPE. DO NOT STRETCH THE MESH, ALLOWING IT TO FULLY CONTACT THE SOIL.
7. SECURE THE JUTE MESH WITH STAPLES (11 GAUGE - 8"x1"x8") 24" APART THOUGH OUT THE MATTING (APPROXIMATELY 200 STAPLES PER 100 SY). STAPLES SHOULD BE DRIVEN FLUSH WITH THE GROUND.
8. SECURE BEGINNING AND END OF ROLL BY ANCHORING THE MATTING INTO 6" DEEP SLOTS CUT INTO THE SOIL. THEN STAPLE MATTING AT CHECK SLOTS.

PUBLIC WATER SERVICE LINE NOTES (4" & GREATER):

1. WATER SERVICE LINES (LATERALS) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATION AND SPECIFICATIONS OF THE CITY OF CANANDAIGUA.
2. WATER SERVICE LINES SHALL HAVE A MINIMUM OF FIVE FEET OF COVER FROM FINISHED GRADE IN LAWN AREAS AND SIX FEET COVER FROM FINISHED GRADE IN PAVED AREAS.
3. WATER SERVICE LINES SHALL BE SEPARATED AT LEAST TEN FEET, MEASURED FROM THE OUTSIDE OF THE PIPES, FROM SEWER MAINS OR SEPTIC SYSTEMS
4. WATER SERVICE LINES SHALL BE AS IDENTIFIED AS:

DESCRIPTION	SIZE	MATERIAL (a) TYPE (b)
CITY PORTION - FROM THE WATER MAIN TO AND INCLUDING THE CONTROL VALVE ON THE ROW/PROPERTY EASEMENT LINE	4"	DR-14 CMB
PRIVATE PORTION - FROM THE CONTROL VALVE TO THE RPT	4"	DR-14 CMB

(a) ACCEPTABLE MATERIAL IS "POLY WRAPPED CLASS 52 CEMENT MORTAR LINED DUCTILE IRON PIPE OR DR-14

(b) SERVICE TYPES INCLUDE-DOMESTIC = DS, FIRE = FS, OR COMBINED = CMB

5. THE PUBLIC PORTION OF THE WATER SERVICE LINE SHALL BE INSTALLED PRIOR TO THE PRIVATE PORTION OF THE SERVICE LINE.
6. WATER METER(S) TO BE LOCATED ON THE INTERIOR OF EXTERIOR WALL(S) IMMEDIATELY UPON SERVICE ENTRANCE INTO THE BUILDING(S). RESIDENTIAL SERVICES: A BY-PASS ASSEMBLY IS NOT REQUIRED AROUND THE INSTALLATION OF ½ INCH THROUGH 2-INCH METERS. NON-RESIDENTIAL SERVICES: THE INSTALLATION OF AN ½ INCH METER OR LARGER REQUIRES A BY-PASS ASSEMBLY AROUND THE METER.
7. PUBLIC WATER LINES SHALL BE:
 - PRESSURE TESTED TO 150 PSI OR 150% OF STATIC LINE PRESSURE, WHICHEVER IS GREATER, IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE CANANDAIGUA-FARMINGTON WATER DEPT. A REPRESENTATIVE MUST WITNESS THIS TEST.
 - DISINFECTED BY USING THE CONTINUOUS FEED METHOD ACCORDING TO AWWA STANDARD SPECIFICATIONS. AFTER FLUSHING AND DISINFECTING THE SERVICE LINE, WATER SAMPLES SHALL BE COLLECTED BY THE CONTRACTOR. APPROVAL AND NOTIFICATION BY THE HEALTH DEPARTMENT MUST BE RECEIVED BEFORE THE LATERAL IS PLACED IN SERVICE.
8. PRIVATE WATER LINES SHALL BE:
 - PRESSURE TESTED TO 150 PSI IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE CANANDAIGUA-FARMINGTON WATER DEPT. A REPRESENTATIVE MUST WITNESS THIS TEST.
 - DISINFECTED BY USING THE CONTINUOUS FEED METHOD ACCORDING TO AWWA STANDARD SPECIFICATIONS. AFTER FLUSHING AND DISINFECTING THE SERVICE LINE, WATER SAMPLES SHALL BE COLLECTED BY THE CONTRACTOR AND SUBMITTED TO A THIRD PARTY TESTING COMPANY.

ARCHITECTURAL COORDINATION NOTE:

THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL UTILITY CONNECTIONS WITH MECHANICAL/ARCHITECTURAL DRAWINGS FOR LOCATION, PENETRATION, AND SIZES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH ALL SUBCONTRACTORS FOR PROPER UTILITY CONNECTIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY DESCRIBED TO ENGINEER AND ARCHITECT.

STANDARD WATER MAIN EXTENSION NOTES:

1. THE WATER MAIN SHALL BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS DESIGNATION C651. FOLLOWING DISINFECTION, THE WATER MAIN SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYST. THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING. ALL WATER MAIN FITTINGS NOT RECEIVING 24-HOUR CHLORINE DISINFECTION CONTACT TIME MUST BE SWAB DISINFECTED 30 MINUTES PRIOR TO INSTALLATION. THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS. SAMPLING WILL NOT BE PERFORMED PRIOR TO RECEIPT FROM A NEW YORK STATE LICENSED OR REGISTERED DESIGN ENGINEER, ARCHITECT OR LAND SURVEYOR WITH A SPECIAL EXEMPTION UNDER SECTION 7208(n) OF THE EDUCATION LAW) CERTIFYING THAT THE WATER SUPPLY IMPROVEMENTS, TESTING AND DISINFECTION PROCEDURES WERE COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS, REPORTS, SPECIFICATIONS AND ANY APPROVED AMENDMENTS. SAMPLES SHALL BE COLLECTED FOR FREE CHLORINE RESIDUAL, TOTAL AND FECAL COULIFORM AND 24-HOUR BACTERIAL PLATE COUNT AND TAKEN TO A NYS CERTIFIED LABORATORY AND RESULT PROVIDED TO NYSDOH. THE WATER MAIN SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE NYS DEPARTMENT OF HEALTH.
2. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER LINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPE AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.
3. WHEN INSTALLING FIRE HYDRANTS, SHOULD GROUND WATER BE ENCOUNTERED WITHIN SEVEN (7) FEET OF THE FINISHED GRADE, FIRE HYDRANT WEEP HOLES (DRAINS) SHALL BE PLUGGED.
4. THE WATER MAIN SHALL BE PRESSURE/LEAKAGE TESTED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE AWWA STANDARD C400 (LATEST REVISION) OR IN ACCORDANCE WITH MORE STRINGENT REQUIREMENTS IMPOSED BY THE SUPPLIER OF WATER.

ELECTRIC & GAS SERVICE COORDINATION NOTES:

1. ELECTRIC AND PLUMBING CONTRACTORS SHALL COORDINATE WITH EACH OTHER AND DIRECTLY WITH ROCHESTER GAS & ELECTRIC (RG&E) ELECTRIC AND GAS DEPARTMENTS FOR METER AND SERVICE LOCATIONS PRIOR TO INSTALLATION.
2. ELECTRIC AND PLUMBING CONTRACTORS SHALL ALLOW FOR THE NECESSARY PROVISIONS WHEN INSTALLING METERS AND SERVICES IN ACCORDANCE WITH RG&E DESIGN AND INSTALLATION GUIDELINES.
3. ELECTRIC AND PLUMBING CONTRACTORS SHALL DIRECTLY COORDINATE WITH EACH OTHER AND DIRECTLY WITH RG&E FOR ELECTRIC AND GAS START-UP.

LANDSCAPING NOTES:

1. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED IN THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK BY AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFF.
3. CONTRACTOR SHALL STAKEOUT PLANTINGS FOR OWNER'S APPROVAL PRIOR TO BEGINNING WORK.
4. THE CONTRACTOR IS HEREBY NOTIFIED THAT UNDERGROUND UTILITIES EXIST AND HE SHOULD CALL FOR A COMPLETE UTILITY STAKEOUT BEFORE COMMENCING WORK.
5. SHOULD LOCATION OF TREES BE WITHIN 5' OF UNDERGROUND UTILITIES, RELOCATE SAID TREES TO MIN. OF 5' FROM BALL TO UTILITIES.
6. SHOULD LOCATIONS OF TREES BE WITHIN 20' OF OVERHEAD WIRES, RELOCATE SAID TREES TO MINIMUM OF 20' FROM WIRES.
7. PLANTING BACKFILL MIXTURE:
4 PARTS TOPSOIL: 1 PART PEAT MOSS, 10 LBS. 5-0-5 PLANTING FERTILIZER THOROUGHLY MIXED PER CUBIC YARD.
8. STAKE TREES IMMEDIATELY AFTER PLANTING.
9. PROVIDE BLACK HARD RUBBER EDGING AT ALL PLANTING AREAS.
10. ALL SEEDED AREAS SHALL RECEIVE 10-0-10 COMMERCIAL FERTILIZER APPLIED AT A RATE OF 20LBS./1000 S.F. NO FERTILIZER CONTAINING PHOSPHORUS IS PERMITTED ON SITE.
11. ALL NEWLY SEEDDED AREA SHALL RECEIVE STRAW AT A RATE OF 2000 LBS./ACRE OR HYDROSEED METHOD MAY BE UTILIZED.
12. FINE GRADE & HAND RAKE SOIL IN AREAS TO RECEIVE NEW SEED
13. ALL AREAS TO BE SEEDDED SHALL RECEIVE 6" DEPTH OF TOPSOIL.
14. ANY PROPOSED DEVIATION TO THIS PLAN MUST FIRST BE REVIEWED AND APPROVED BY THE PLANNING BOARD AND TOWN ENGINEER, PRIOR TO THE INSTALLATION OF THOSE PROPOSED LANDSCAPE CHANGES.
15. RED MAPLE, BLACK TUPELO, BIRCH, OAK AND ZELKOVA ARE CONSIDERED FALL PLANTING HAZARD. CONTRACTOR SHALL TAKE SPECIAL CARE WHEN PLANTING AND WATERING THESE TREES.

SEEDING NOTE

TO PROVIDE THE FOLLOWING SEED MIXTURES DURING CONSTRUCTION:

TEMPORARY SEEDING:
RYEGRASS (ANNUAL OR PERENNIAL) @ 120 LBS. PER ACRE OR 0.7 LBS. PER 1000 SQUARE FEET.

PERMANENT SEEDING:
65% KENTUCKY BLUEGRASS BLEND @ 85LBS. PER ACRES OR 2.0-2.6 LBS. PER 1000 SQUARE FEET
20% PERENNIAL RYEGRASS @ 26-35 LBS. PER ACRE OR 0.4-0.8 LBS. PER 1000 SQUARE FEET
15% FINE FESCUE @ 19-26 LBS. PER ACRE OR 0.4-0.6 LBS. PER 1000 SQUARE FEET

FOR ALL SEEDING & STABILIZATION MEASURES IT IS THE RESPONSIBILITY OF THE OWNER & DEVELOPER TO ENSURE THAT FINAL STABILIZATION OCCURS AS REQUIRED BY THE NYSDC. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 7 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 7 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN(S).

UTILITY NOTES:

1. PRIOR TO THE START OF UTILITY INSTALLATION THE CONTRACTOR AND SUBCONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL UTILITY CONNECTIONS WITH MECHANICAL/ARCHITECTURAL DRAWINGS FOR INCLUDING BUT NOT LIMITED TO VERTICAL AND HORIZONTAL LOCATION, PENETRATIONS, AND SIZES. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROCEED WITH UTILITY INSTALLATION BY THE OWNERS ONSITE REPRESENTATIVE UPON COMPLETION OF COORDINATION WITH CONTRACTORS, AND PLANS.
2. THE DEVELOPER AND HIS/HER CONTRACTOR IS RESPONSIBLE FOR COORDINATING GAS, ELECTRICAL, CABLE, TELEPHONE AND ANY OTHER UTILITIES NOT SPECIFICALLY SHOWN WITHIN THIS PLAN SET WITH AN APPROPRIATE AGENCY. PASSERO ASSOCIATES ASSUMES NO RESPONSIBILITY FOR THE DESIGN OR PERFORMANCE OF UTILITIES NOT SPECIFICALLY SHOWN WITHIN THIS PLAN SET.
3. PRIOR TO THE START OF UTILITY INSTALLATION THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY AND COORDINATE WITH EXISTING UTILITIES SHOWN ON THE PLANS AND REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROCEED WITH UTILITY INSTALLATION BY THE OWNERS ONSITE REPRESENTATIVE UPON COMPLETION EXISTING UTILITY VERIFICATION.
4. THRUST BLOCKS ON THE WATERMAIN ARE REQUIRED AT BENDS, TEES OR PLUGS. SEE DETAIL SHEETS FOR THRUST BLOCK DETAILS.

STORM NOTES

1. STORM SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE LATEST REGULATIONS OF THE MUNICIPALITY
2. PROPOSED STORM SEWER LATERAL MATERIAL:
PVC SDR-35 6" MIN. SIZE & SHALL BE LAID AT A MINIMUM GRADE OF 1/4" PER FT. STORM SEWER MATERIAL:
ADS HDPE 12" MIN.
3. FOUNDATION DRAINS SHALL BE CONNECTED TO STORM WATER SYSTEM VIA SUMP PUMP. DOWNSPOUTS SHALL BE CONNECTED TO STORM SEWER, WHERE APPLICABLE, WHERE NOTED ON THE PLANS. DOWNSPOUTS SHALL DISCHARGE TO SPLASH BLOCKS.
4. UPON COMPLETION OF SYSTEM INSTALLATION, THE MAIN SEWER SYSTEM AND LEADS TO STRUCTURES SHALL BE FLUSHED AND LAMPED TO THE SATISFACTION OF THE MUNICIPALITY.

DEMOLITION NOTES

1. MILL ASPHALT PER PLAN AND STOCKPILE FOR RE-USE.
2. FOR FULL DEPTH PAVEMENT EXCAVATION: THE TOP OF THE EXISTING CURB IS TO REMAIN AND SHALL HAVE A REVEAL OF 4" AT THE COMPLETION OF CONSTRUCTION. EXISTING SUITABLE SUB-BASE ENCOUNTERED DURING EXCAVATION SHALL BE STOCKPILED FOR RE-USE. EXCESS MATERIALS OR UNSUITABLE MATERIAL SHALL BE HAULED OFF-SITE.
3. PREPARE AND PLACE A SUB-BASE COURSE COMPOSED OF A BLEND OF THE EXISTING SUB-BASE (FROM STOCKPILE), ASPHALT MILLINGS (FROM STOCKPILE) AND IF NEEDED, ADDITIONAL STONE AGGREGATE TO OBTAIN THE SPECIFIC DEPTH OF AND THE PLACEMENT OF 1" OF CRUSHED STONE FOR FINE GRADING PURPOSES.
4. PAVE ENTIRE PARKING AREA WITH TYPE 7F TOP COURSE ASPHALT.
5. UPON COMPLETION, ALL PAVEMENT AREAS SHALL BE SMOOTH. ALL CURB SHALL HAVE 4" REVEAL. WATER SHALL DRAIN WELL INTO EXISTING CATCH BASINS (NO PONDING) ALL HANDICAP RAMPS SHALL BE FLUSH WITH NEW PAVEMENT AND SHALL MEET ALL ADA REGULATIONS.

SANITARY NOTES

1. SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE LATEST REGULATIONS OF THE STATE, COUNTY AND LOCAL MUNICIPALITY.
2. MATERIALS
- MAINS - PIPING SHALL BE POLYVINYL CHLORIDE (PVC) WITH ENDS SUITABLE FOR ELASTOMERIC GASKET JOINTS, AND A MINIMUM WALL THICKNESS OF SDR-35. PIPING AND FITTINGS SHALL MEET:
ASTM D-3034 (4" THRU 15")
ASTM F-679 (18" THRU 48")
- LATERALS - 4" MIN. INSTALLED AT ½ PER FOOT MIN. PIPING SHALL BE POLYVINYL CHLORIDE (PVC) WITH ENDS SUITABLE FOR ELASTOMERIC GASKET JOINTS, AND A MINIMUM WALL THICKNESS OF SDR-21. PIPING AND FITTINGS SHALL MEET ASTM D-2241.
- JOINTING MATERIALS - SHALL BE BELL-AND-SPIGOT WITH INTEGRAL PUSH ON TYPE ELASTOMERIC GASKET JOINTS. GASKET MATERIAL TO BE NEOPRENE MEETING ASTM D-3212
- MANHOLES - SHALL BE PRECAST CONCRETE WITH NEOPRENE GASKETS MEETING ASTM C-478 & ASTM C-443.
3. INFILTRATION AND EXFILTRATION FOR SANITARY SEWERS SHALL BE LIMITED TO 100 GALLONS PER MILE PER INCH DIAMETER OF PIPE PER 24 HOURS.
4. IF AN AIR TEST IS USED, THE TEST AS A MINIMUM SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM C-828-80. ENTITLED STANDARD PRACTICE FOR LOW PRESSURE AIR TEST OF VITRIFIED CLAY PIPELINES; SANITARY MANHOLES SHALL BE TESTED FOR EXFILTRATION.
5. VACUUM TESTING OF MANHOLES IS ALLOWED. THE CONTRACTOR IS CAUTIONED TO SPEAK TO THE SUPERINTENDENT OF SEWERS PRIOR TO COMMENCING WITH PLANS TO VACUUM TEST.
6. DEFLECTION TEST - TEN STATE STANDARDS.
6.A. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS.
6.B. IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDRELL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
6.C. NO PIPE SHALL EXCEED A DEFLECTION OF 5%.
7. ALL SANITARY SEWER INSTALLATION SHALL BE MADE IN CONFORMANCE WITH THE SPECIFICATIONS, REGULATIONS, AND POLICIES OF THE CANANDAIGUA-FARMINGTON SEWER DISTRICT.
8. ALL HOUSE LATERALS SHALL HAVE A CLEANOUT AT THE PROPERTY LINE OR EASEMENT LINE.
9. FLOOR DRAINS, IF CONSTRUCTED, SHALL BE CONNECTED TO THE SANITARY SEWER/COMBINATION SEWER. (FLOOR DRAINS DO NOT INCLUDE FOUNDATION/FOOTER DRAINS). ALL DISCHARGES TO THE SANITARY/ COMBINATION SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR THE ONTARIO COUNTY SEWER USE LAW.
10. SEPARATION - MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER LINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER A SEWER ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.
11. SEWER USE LAW: FLOOR DRAINS, IF CONSTRUCTED, SHALL BE CONNECTED TO THE SANITARY/COMBINATION SEWER. FLOOR DRAINS DO NOT INCLUDE FOUNDATION/FOOTER DRAINS. ALL DISCHARGES TO THE SANITARY/COMBINATION SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND OR ONTARIO COUNTY SEWER USE LAW.

SEWER USE LAW:

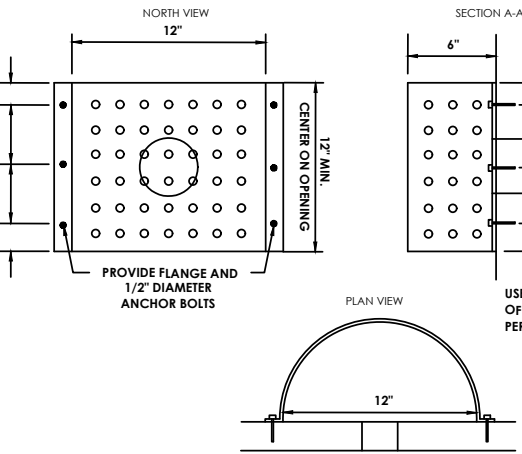
FLOOR DRAINS, IF CONSTRUCTED, SHALL BE CONNECTED TO THE SANITARY/COMBINATION SEWER. FLOOR DRAINS DO NOT INCLUDE FOUNDATION/FOOTER DRAINS.

NOTE: ALL DISCHARGES TO THE SANITARY SEWER MUST COMPLY WITH THE LOCAL SEWER USE LAW.

GENERAL NOTES

1. THE SANITARY WASTE DISPOSAL SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS OF THE NEW YORK STATE DEPARTMENT OF HEALTH AND THE CANANDAIGUA-FARMINGTON SEWER DISTRICT.
2. WATER SERVICE WILL BE INSTALLED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE CANANDAIGUA-FARMINGTON WATER DEPT.
3. THE BUILDING CONSTRUCTION TO BE IN COMPLIANCE WITH THE NEW YORK STATE BUILDING CODE.
4. ANY COST RELATED TO THE RELOCATION OF ANY UTILITIES NECESSITATED BY THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE OWNER OR THOSE REQUESTING THE RELOCATION OF THE UTILITY.
5. ANY AND ALL CULVERT LOCATIONS, SIZES OR TYPES, TO BE APPROVED BY THE TOWN SUPERINTENDENT OF HIGHWAYS.
6. ALL PROPERTY CORNERS TO BE MARKED WITH IRON PINS.
7. THIS SUBDIVISION SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE COUNTY MONUMENTATION LAW.
8. THE SUBDIVISION IS LESS THAN 1500 FEET FROM THE NEAREST CONTROL MONUMENT AND IS THEREFORE TIED INTO THE MONUMENTATION NETWORK. THIS SUBDIVISION SHALL COMPLY WITH ANY COUNTY OR STATE AGENCIES HAVING JURISDICTION.
9. ALL SITE WORK TO BE IN COMPLIANCE WITH THE STANDARDS OF CHAPTER 29 - ARTICLE V OF THE TOWN OF CANANDAIGUA.
11. ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH THE DESIGN CRITERIA AND CONSTRUCTION SPECIFICATIONS FOR LAND DEVELOPMENT FOR THE TOWN OF CANADAIGUA DATED THE MOST CURRENT REVISION.

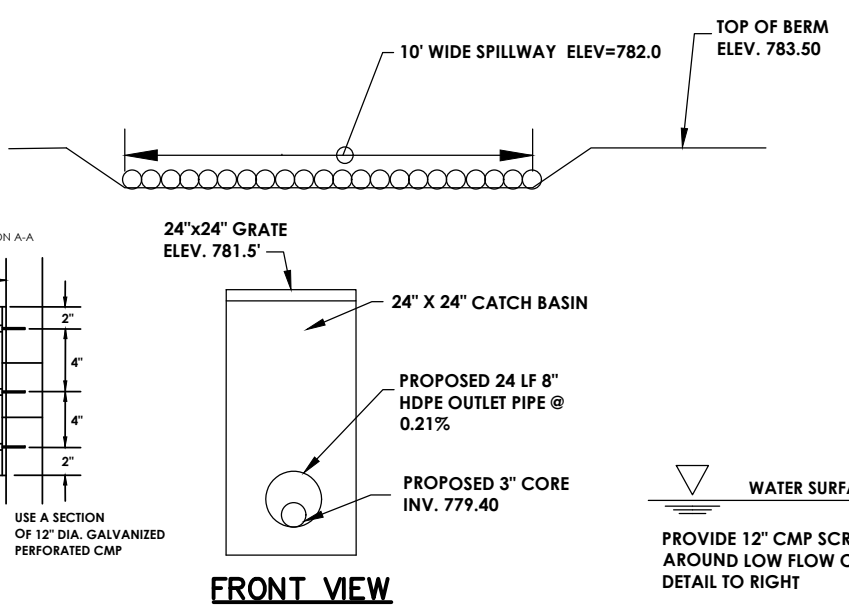
If you excavate anywhere in New York State, except NYC or Long Island, call
Dig Safely.
New York
1-800-962-7962
i-Notice - www.DigSafelyNewYork.com



12" CMP SCREEN DETAIL

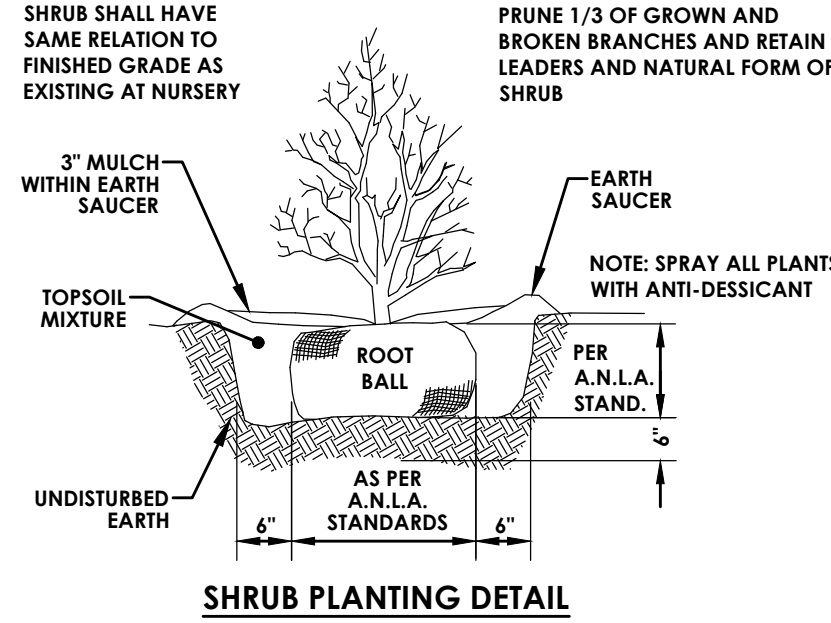
TYPICAL INDUCTANCE TRAFFIC SENSOR LOOP DETAIL

N.T.S.



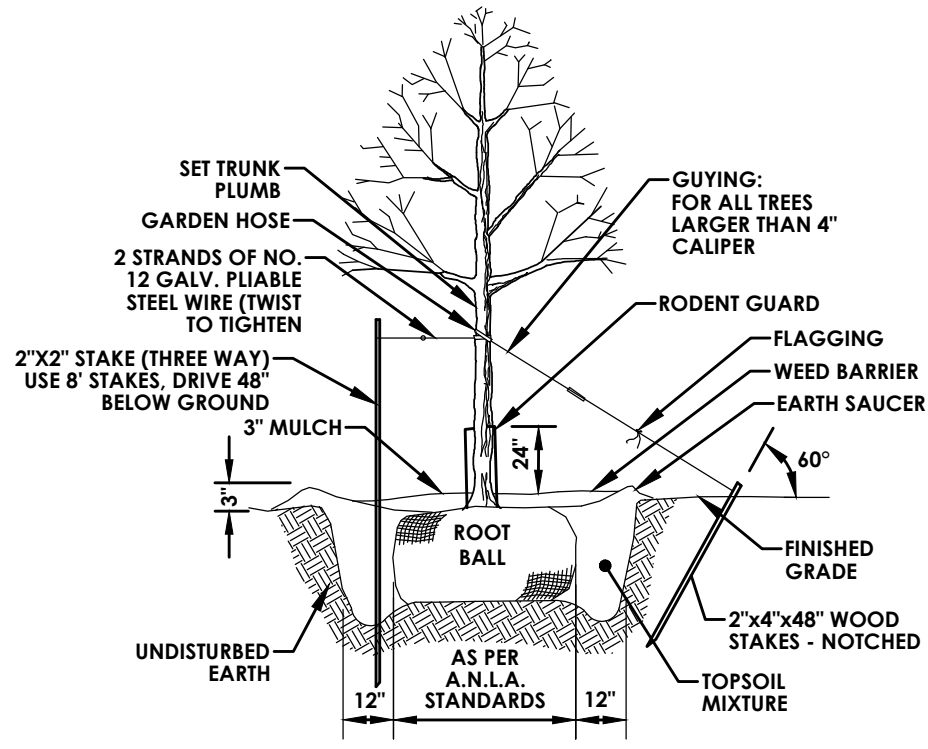
STORM WATER MANAGEMENT AREA

N.T.S.



SHRUB PLANTING DETAIL

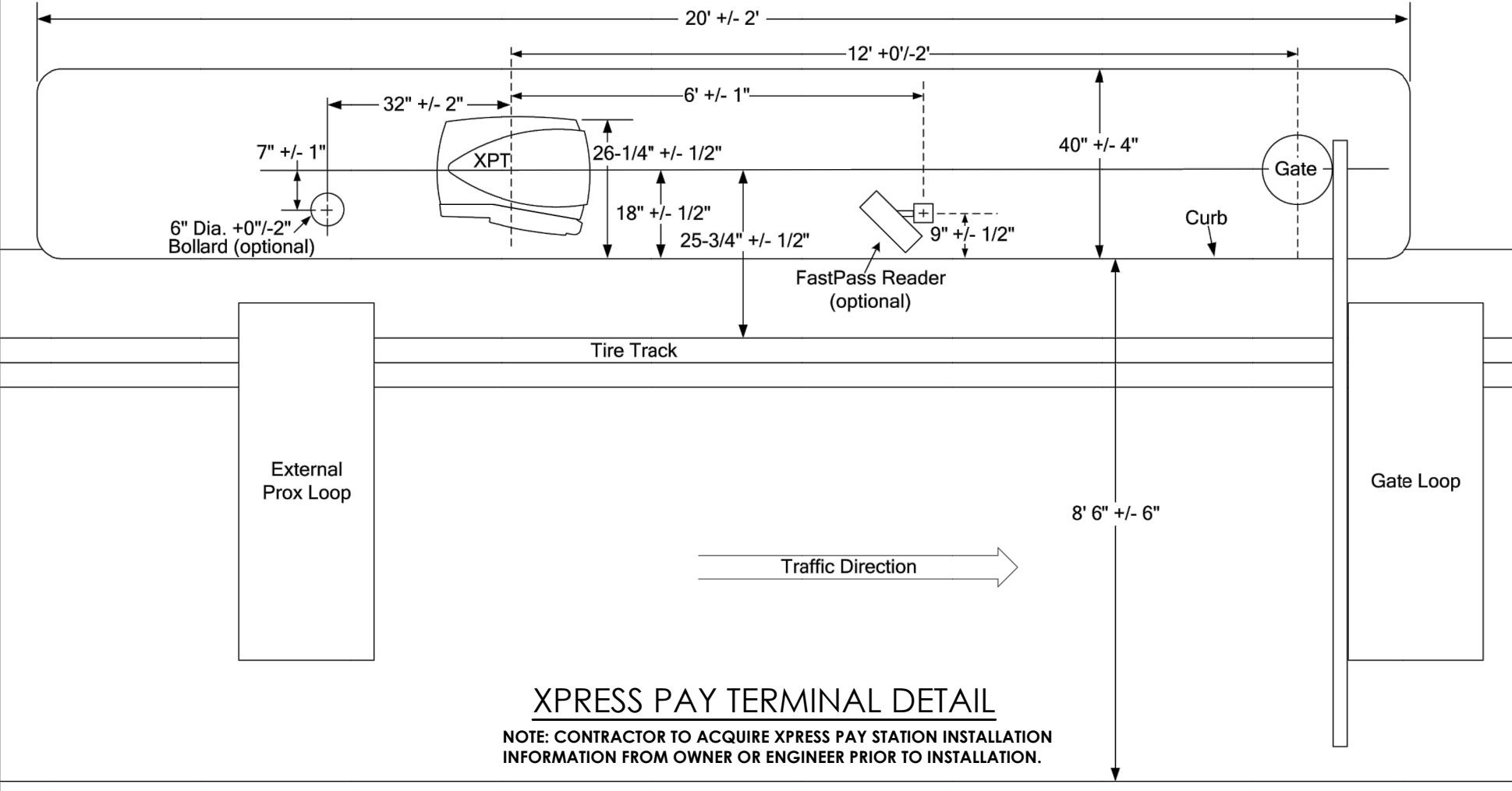
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TREE PLANTING DETAIL

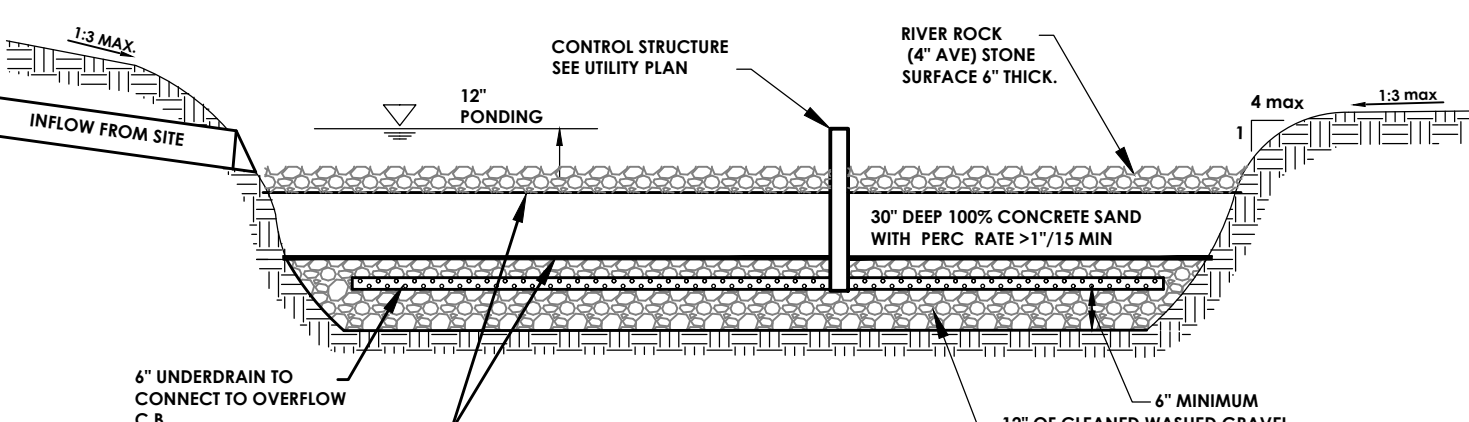
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XPT Island Details



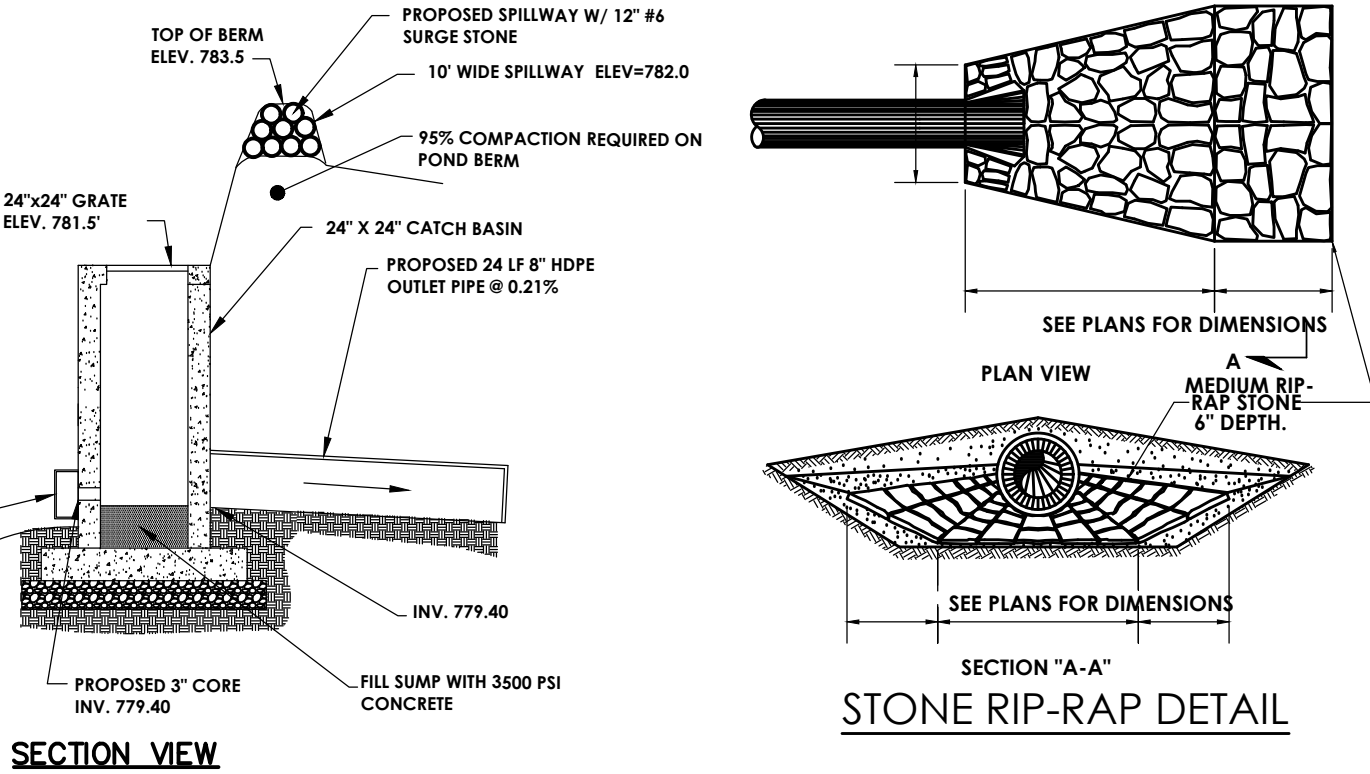
XPRESS PAY TERMINAL DETAIL

NOTE: CONTRACTOR TO ACQUIRE XPRESS PAY STATION INSTALLATION INFORMATION FROM OWNER OR ENGINEER PRIOR TO INSTALLATION.



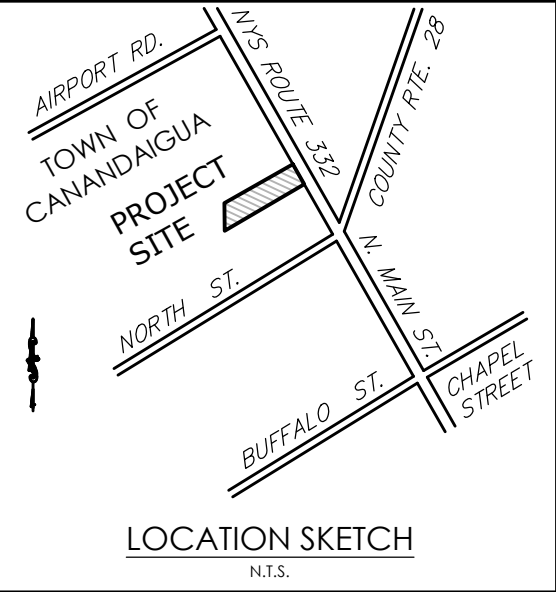
SAND FILTER (SOIL MEDIA SECTION)

N.T.S.



STONE RIP-RAP DETAIL

PA
PASSERO ASSOCIATES
engineering architecture



LOCATION SKETCH

N.T.S.

Client:
ROYAL WASH CANANDAIGUA, LLC
2851 MONROE AVE
ROCHESTER, NY 14618

PASSERO ASSOCIATES

242 West Main Street Suite 100
Rochester, New York 14614
(585) 325-1000
Fax: (585) 325-1691
Principal-in-Charge: Jess D. Sudol, P.E.
Project Manager: David L. Cox, P.E.
Designed by: Jon Daniels



Revisions			
No.	Date	By	Description

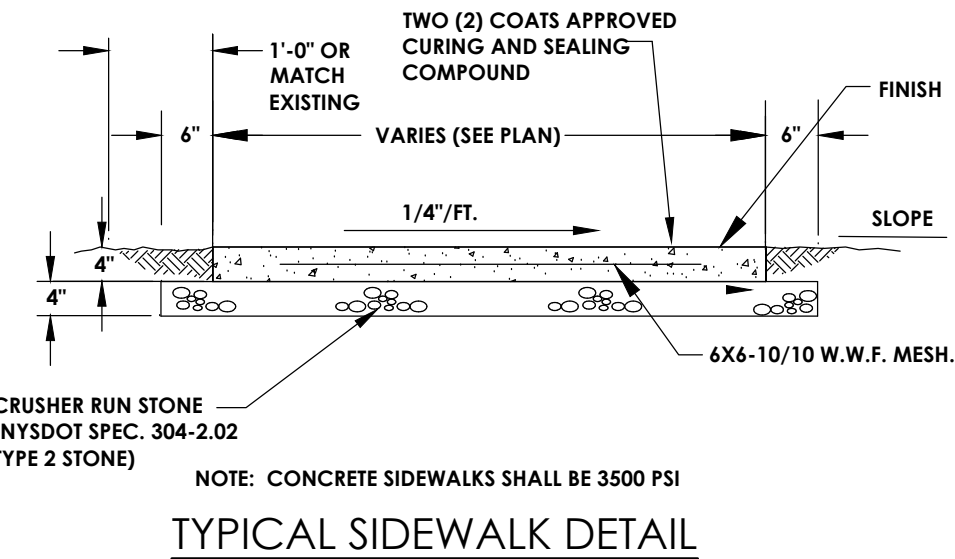
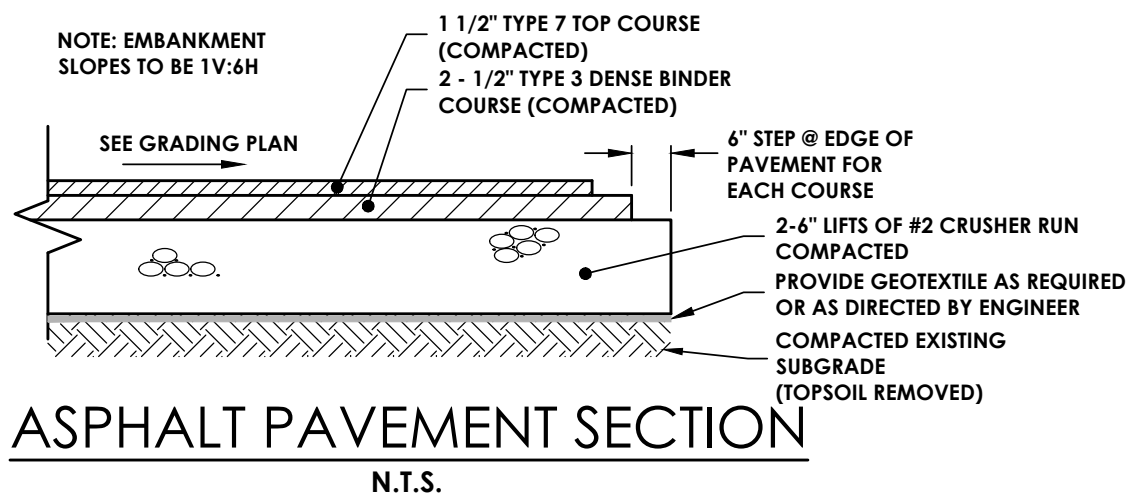
UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS IN VIOLATION OF STATE EDUCATION LAW ARTICLE 145 SECTION 7209 AND ARTICLE 147 SECTION 7307. THESE PLANS ARE COPYRIGHT PROTECTED ©

NOTES

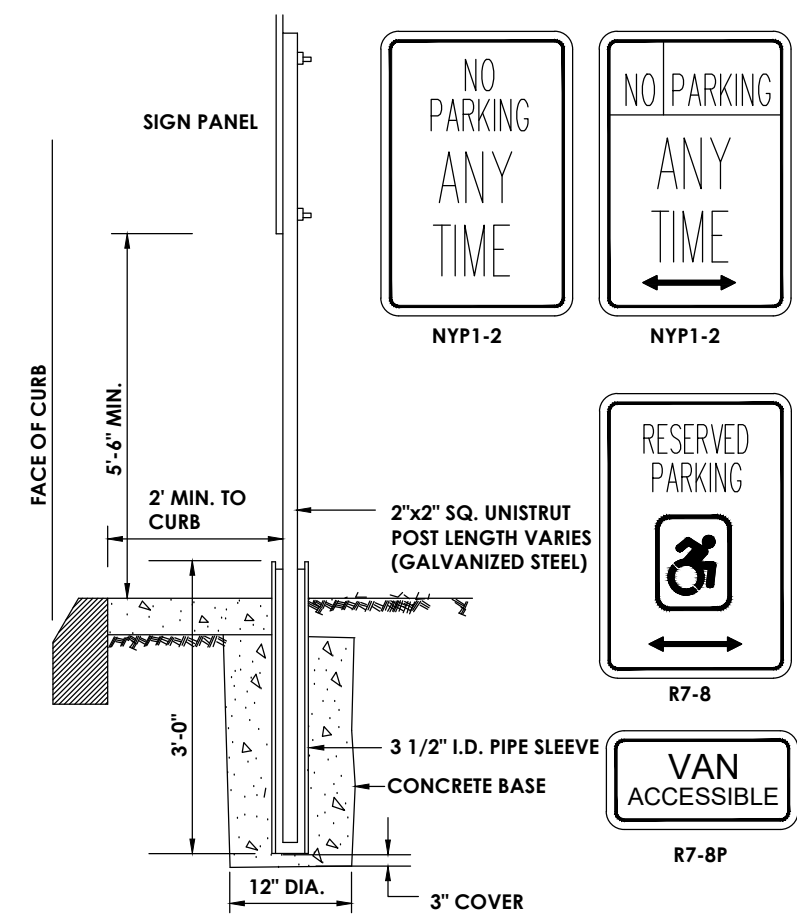
ROYAL CAR WASH

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County: Ontario
State: New York
Project No: 20182698.0001
Drawing No: C201
Sheet No: 7
Scale: N.T.S.
Date: MARCH 2019

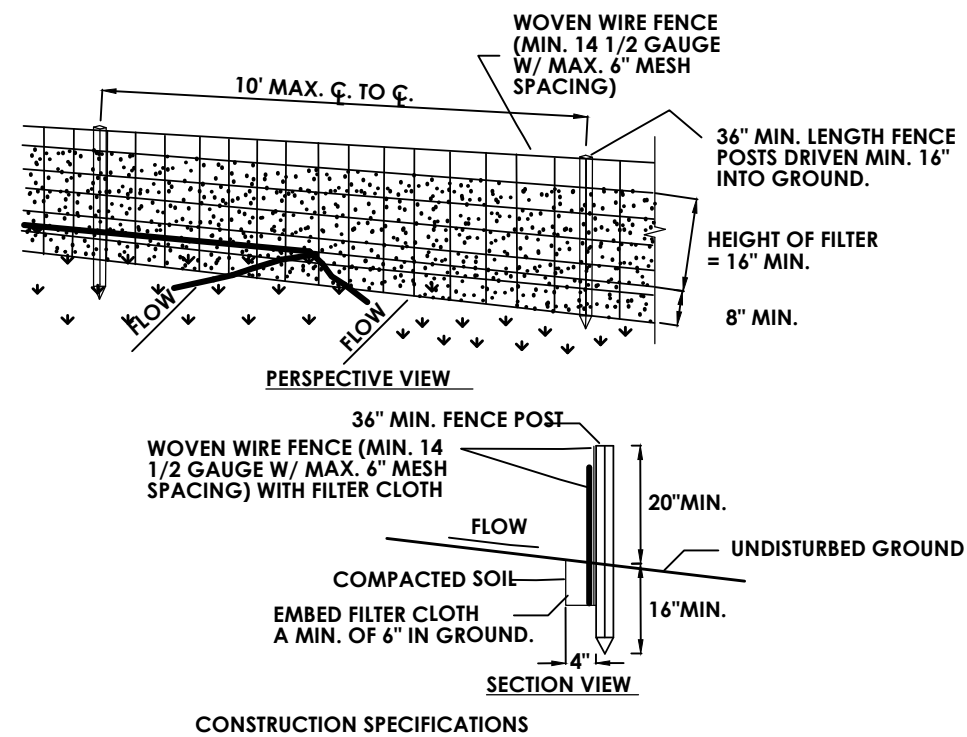
NOT FOR CONSTRUCTION



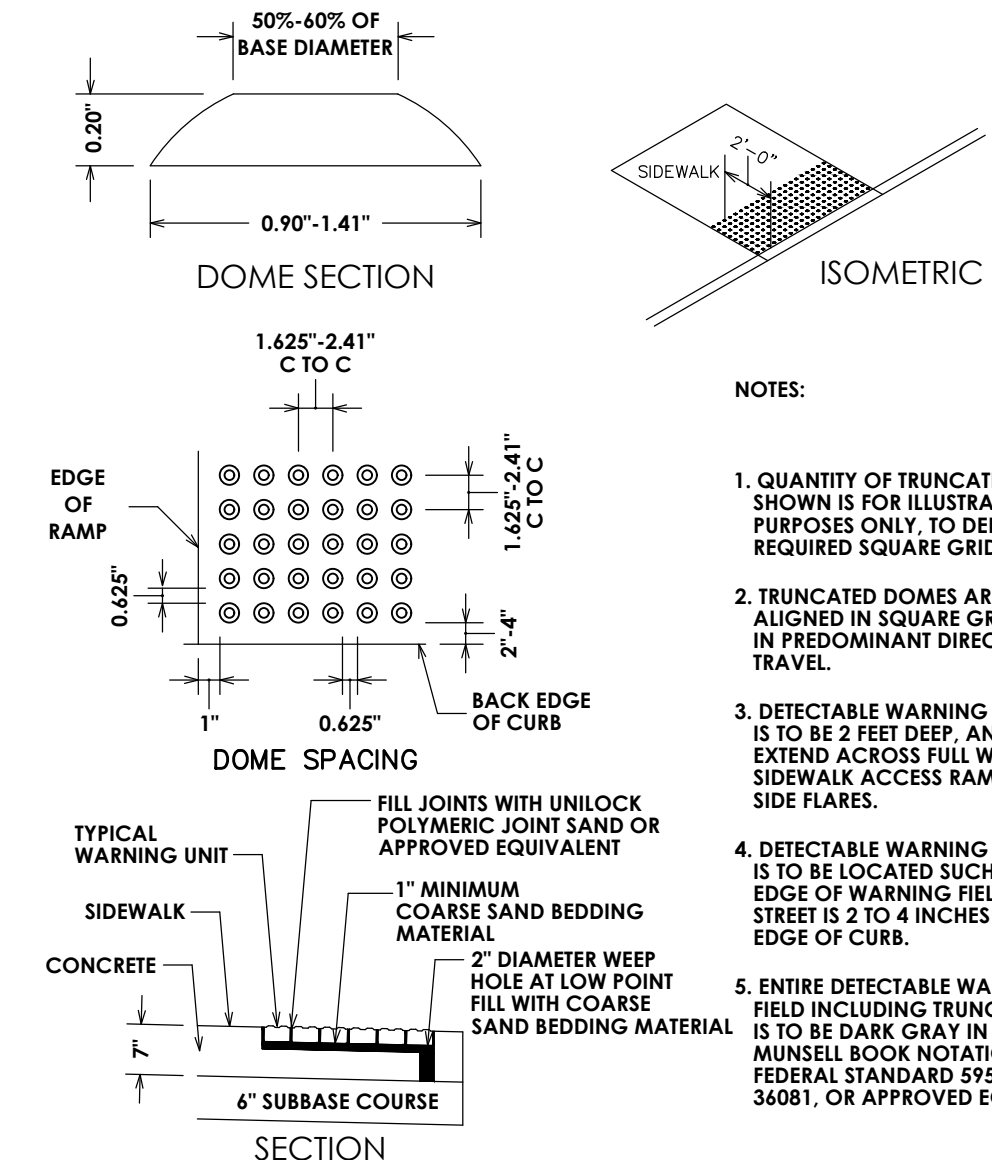
MODIFIED INTERNATIONAL
SYMBOL OF ACCESS



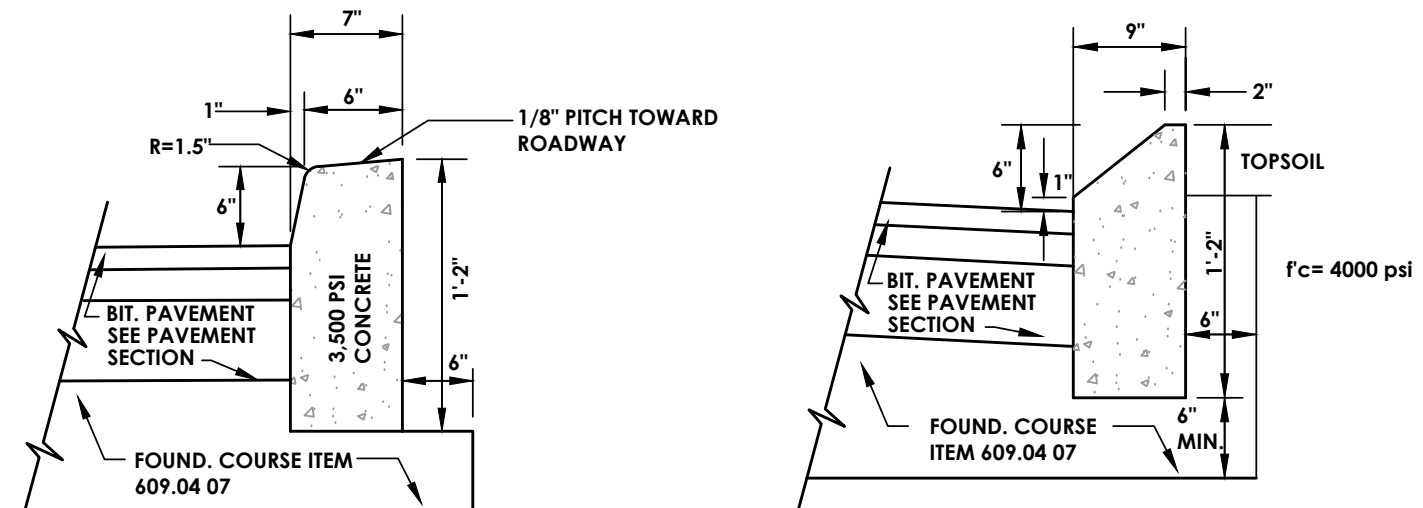
TYPICAL POST MOUNT
HANDICAP SIGN INSTALLATION
(SIGN IN LANDSCAPE AREA OR SIDEWALK)
N.T.S.



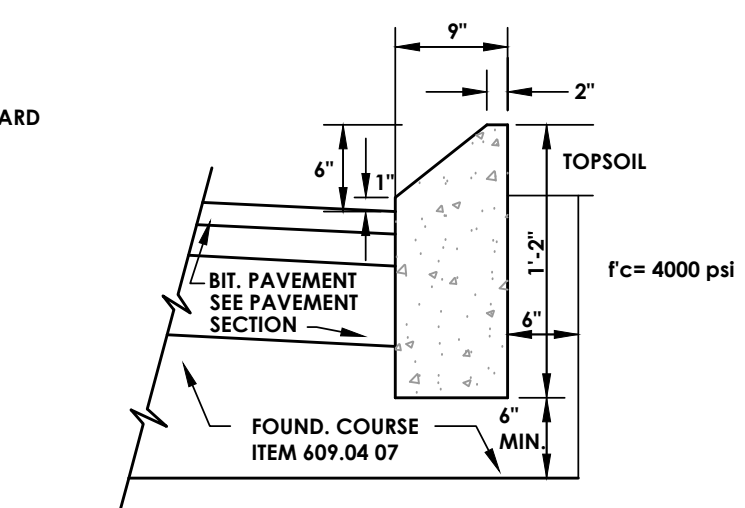
- CONSTRUCTION SPECIFICATIONS
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "I" OR "U" TYPE OR HARDWOOD.
 2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA 1140N, OR APPROVED EQUIVALENT.
 4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.



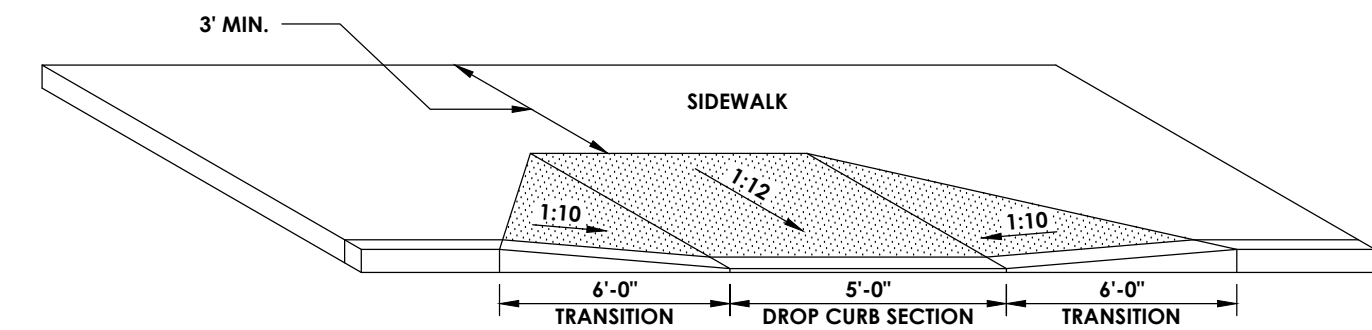
- NOTES:
1. QUANTITY OF TRUNCATED DOMES SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY, TO DEPICT REQUIRED SQUARE GRID PATTERN.
 2. TRUNCATED DOMES ARE TO BE ALIGNED IN SQUARE GRID PATTERN IN PREDOMINANT DIRECTION OF TRAVEL.
 3. DETECTABLE WARNING SYSTEM FIELD IS TO BE 2 FEET DEEP, AND IS TO EXTEND ACROSS FULL WIDTH OF SIDEWALK ACCESS RAMP, BUT NOT UP SIDE FLARES.
 4. DETECTABLE WARNING SYSTEM FIELD IS TO BE LOCATED SUCH THAT OUTER EDGE OF WARNING FIELD NEAREST TO STREET IS 2 TO 4 INCHES OFF BACK EDGE OF CURB.
 5. ENTIRE DETECTABLE WARNING SYSTEM FIELD INCLUDING TRUNCATED DOMES, IS TO BE DARK GRAY IN COLOR, PER MUNSSELL BOOK NOTATION 10B3 3/1, FEDERAL STANDARD SP58 NUMBER 360B1, OR APPROVED EQUIVALENT.



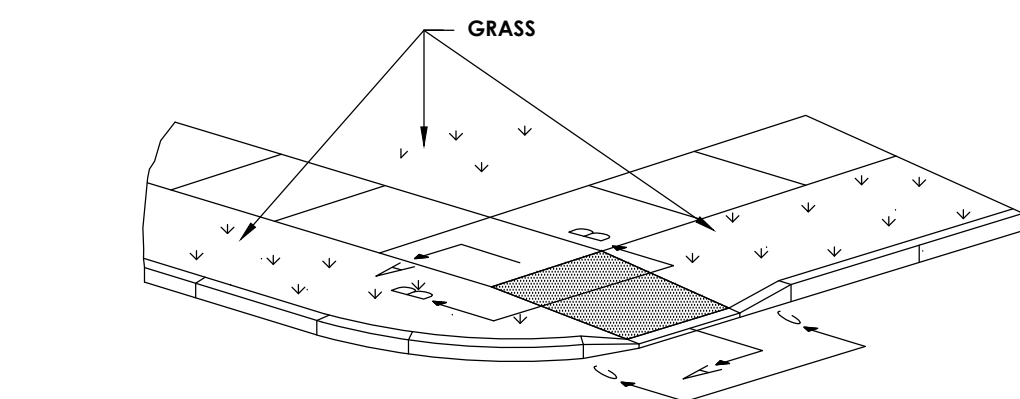
CONCRETE CURB DETAIL
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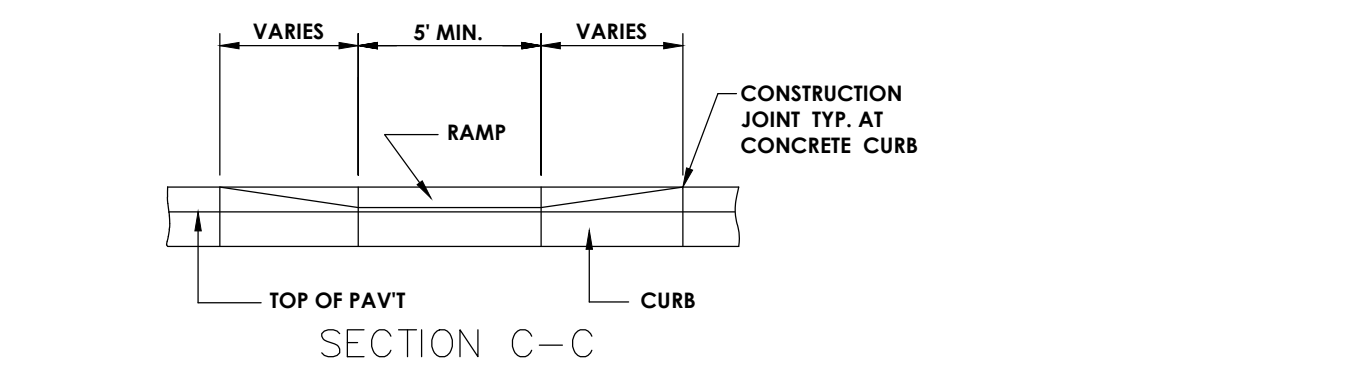
MOUNTABLE CONCRETE CURB DETAIL
N.T.S.



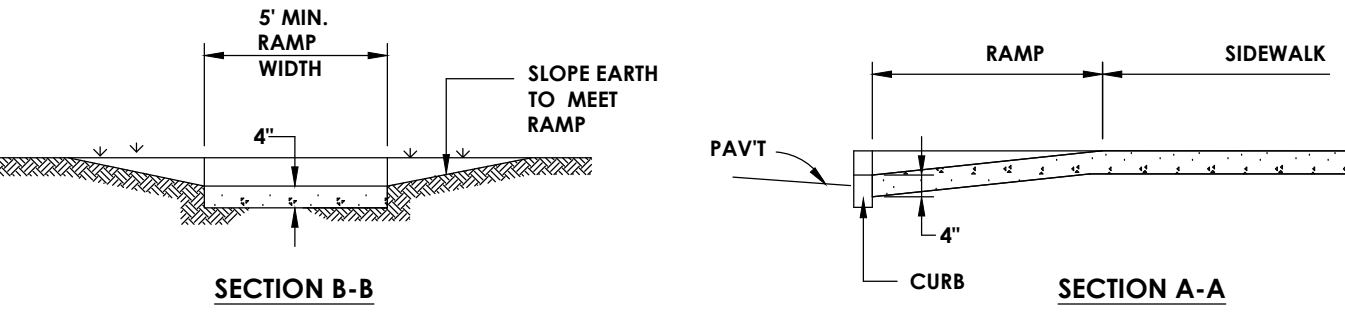
TYPICAL HANDICAP RAMP
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TYPE 1 RAMP ISOMETRIC

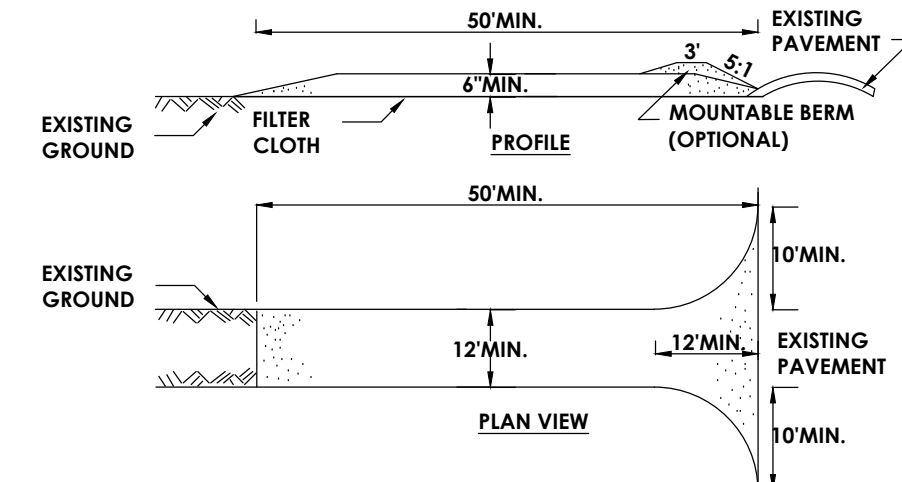


SECTION C-C



- NOTES:
- 1.) TYPE 1 RAMPS MAY BE PROVIDED IN BOTH DIRECTIONS
 - 2.) AT CONCRETE CURB, ROUND EDGE OF CURB WITH A RADIUS APPROX. EQUAL TO HEIGHT OF LIP RAMPS.
 - 3.) MAXIMUM 1:12 SLOPE

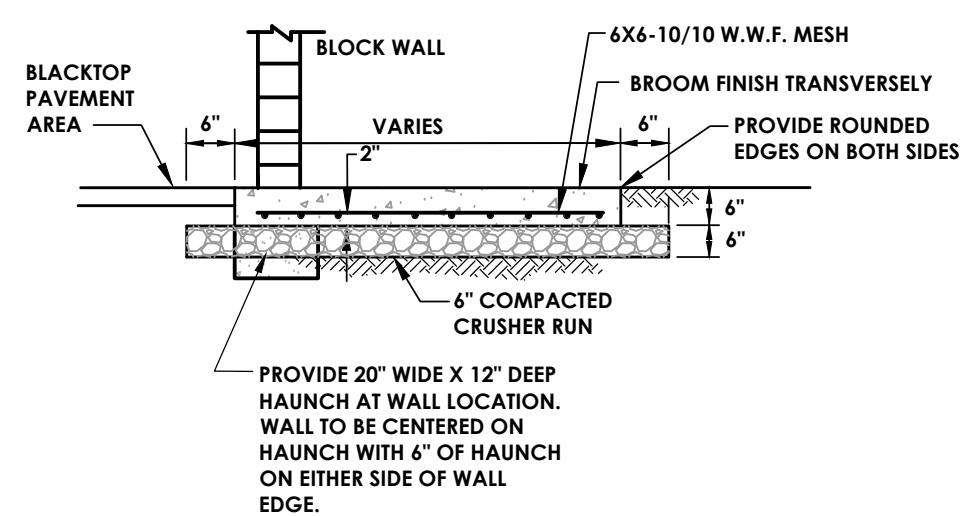
SIDEWALK RAMP TYPE 1
N.T.S.



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. 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 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN

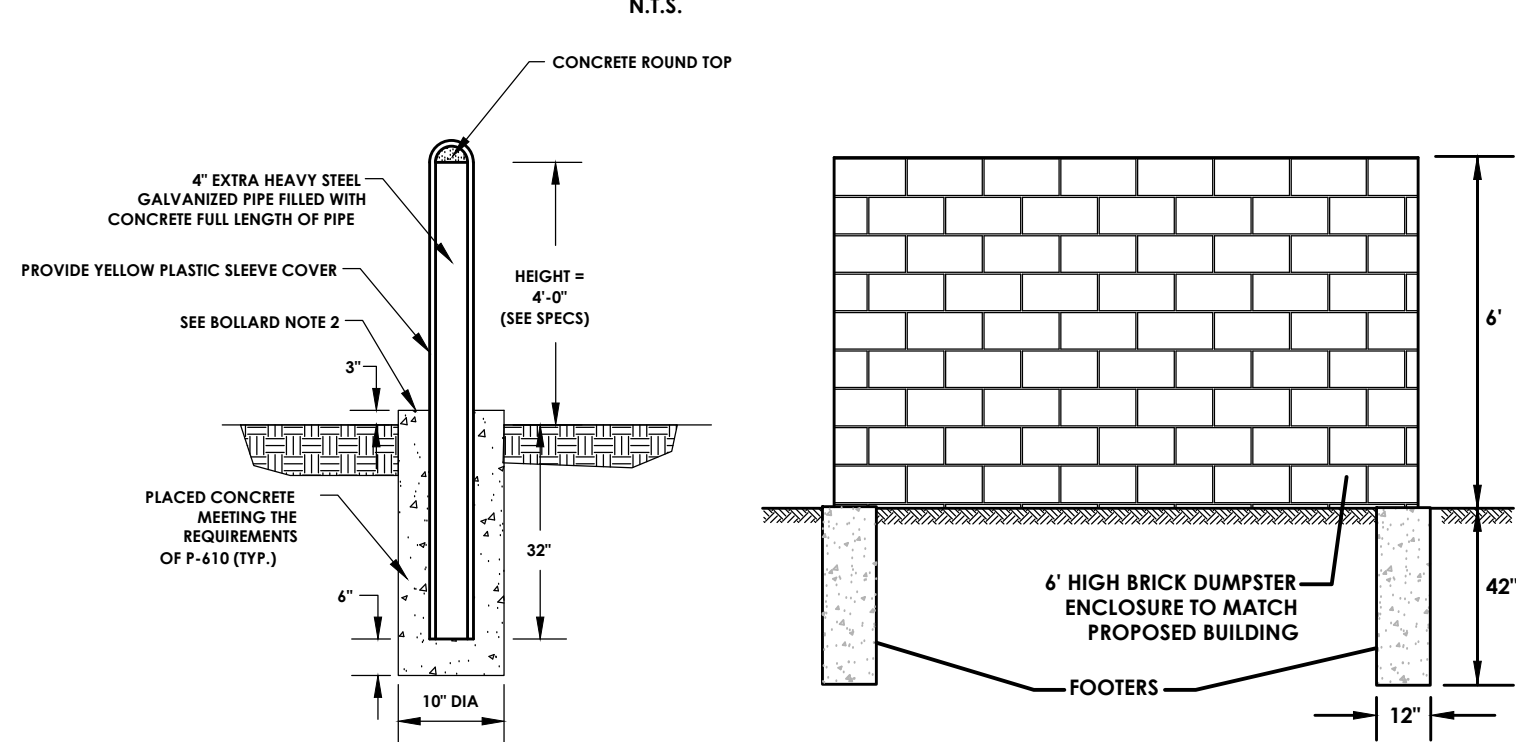
STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



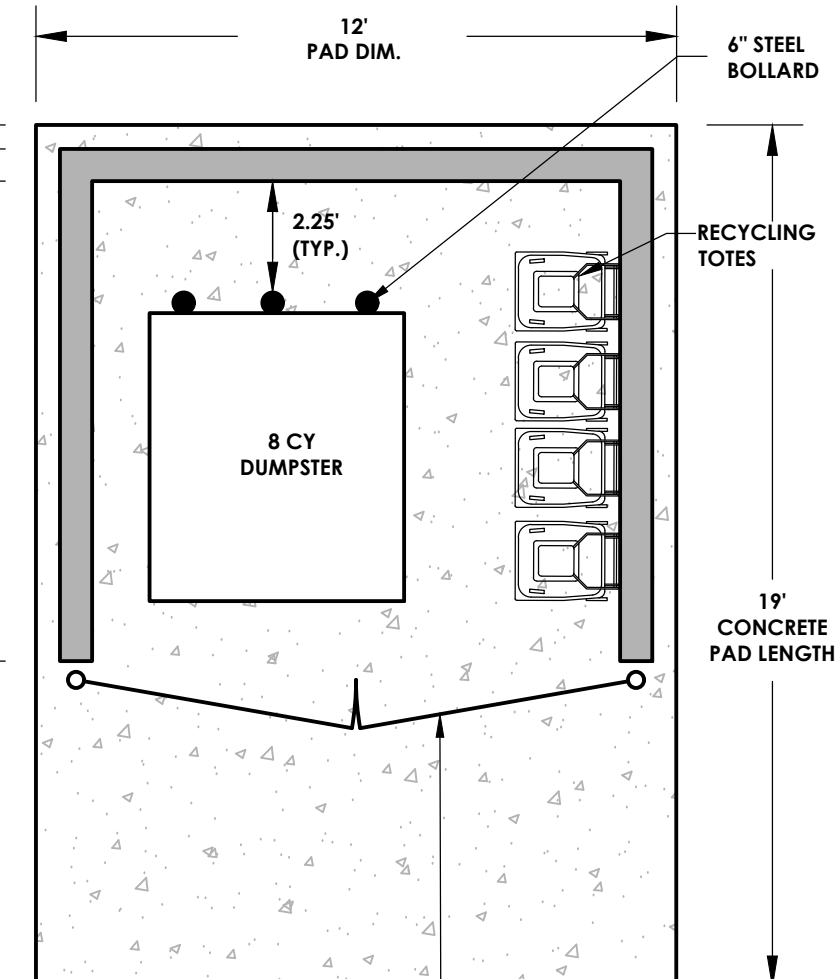
FILTER FABRIC DROP INLET PROTECTION
N.T.S.

1. CONCRETE SHALL BE 4000 P.S.I. CLASS A* AIR ENTRAINED CONCRETE.
2. FULL DEPTH EXPANSION JOINTS SHALL BE PROVIDED EVERY 25' DUMMY OR MARKED JOINTS SHALL BE AT 5' FOOT SPACING.

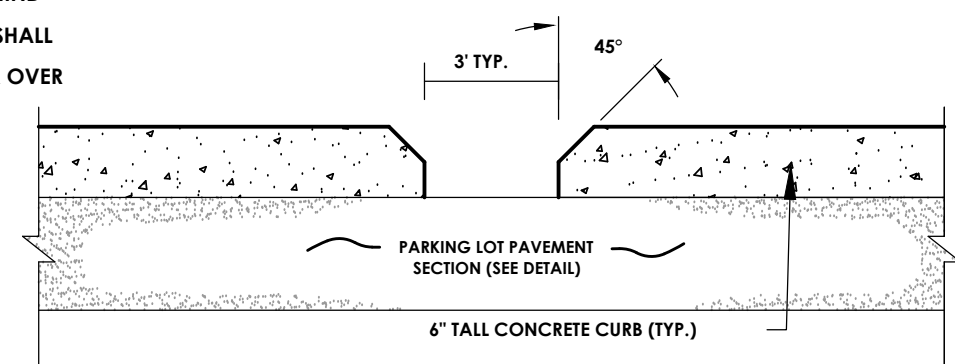
CONCRETE DUMPSTER PAD
N.T.S.



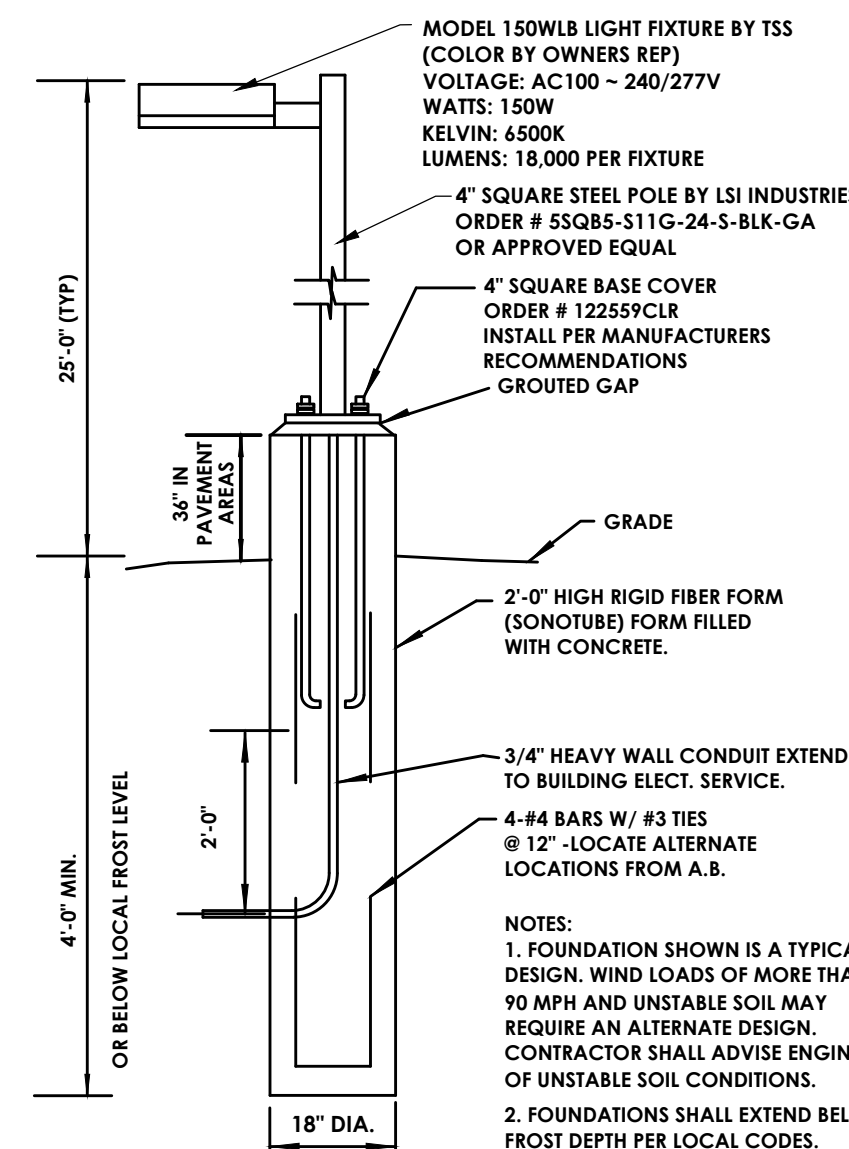
DUMPSTER ENCLOSURE DETAIL
N.T.S.



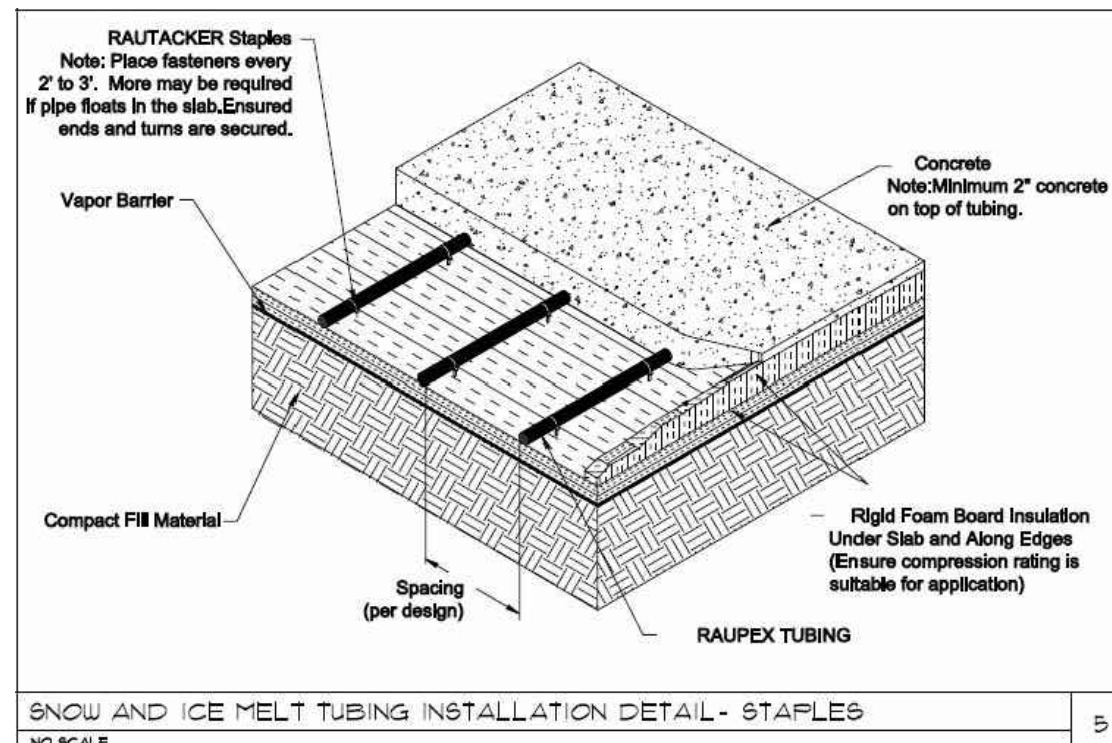
ENCLOSURE PLAN



DRAINAGE RELIEF IN
CURB
N.T.S.



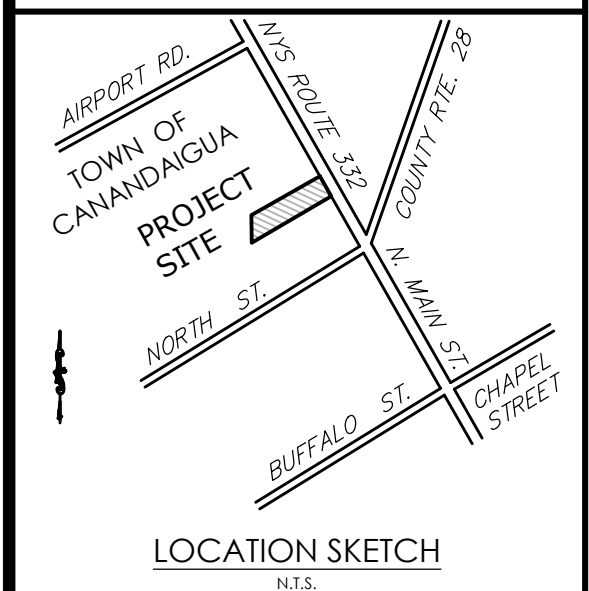
LIGHT POLE AND BASE DETAIL



HEATED CONCRETE DETAIL
N.T.S.

SNOW AND ICE MELT TUBING SCHEDULE - 40% PROPYLENE GLYCOL													
TAG	SERVICE	PRIMARY SPACING (IN)	PRIMARY AREA (SQ. FT.)	HEATING INTENSITY (BTU/ SQ. FT.)	REQUIRED HEAT (BTU)	DELTA T (DEG. F)	MANIFOLD GPM	HEAD (FT.)	TUBING TYPE	TUBE LENGTH (FT.)	NO. OF CIRCUITS	DESIGN EQUIPMENT	
ZONE #	ENTRANCE	8	350	150	52,500	120	7.0	5.75	3.5	1/2" PE-X	500	2	REHAU
ZONE #	EXIT	8	350	150	52,500	120	7.0	5.75	3.5	1/2" PE-X	500	2	REHAU

- NOTES:
1. CONTRACTOR TO FURNISH SHOP DRAWINGS FOR APPROVAL



Client: ROYAL WASH CANANDAIGUA, LLC
2851 MONROE AVE
ROCHESTER, NY 14618

PASSERO ASSOCIATES
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Fax: (585) 325-1691
Principal-in-Charge: Jess D. Sudol, P.E.
Project Manager: David L. Cox, P.E.
Designed by: Jon Daniels



Revisions			
No.	Date	By	Description

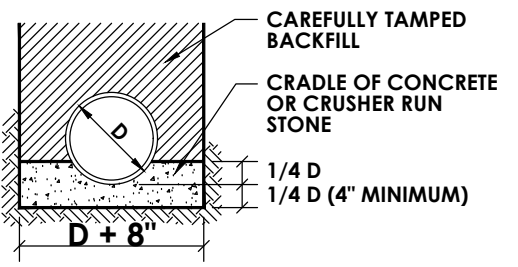
DETAILS
ROYAL CAR WASH
Town/City: Canandaigua
County: Ontario
State: New York
Project No.: 20182698.0001

Drawing No.: C202
Sheet No.: 8

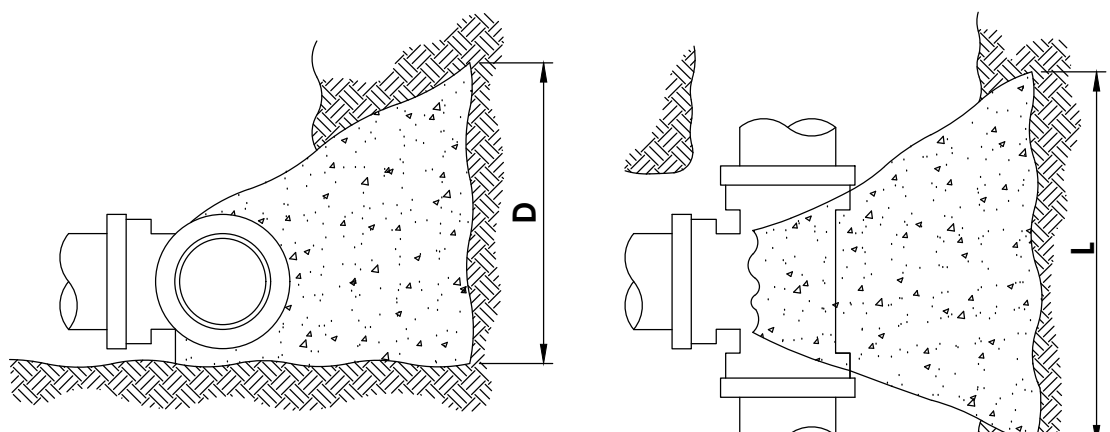
Scale: N.T.S.
Date: MARCH 2019

WATERMAIN AND SERVICE DETAILS

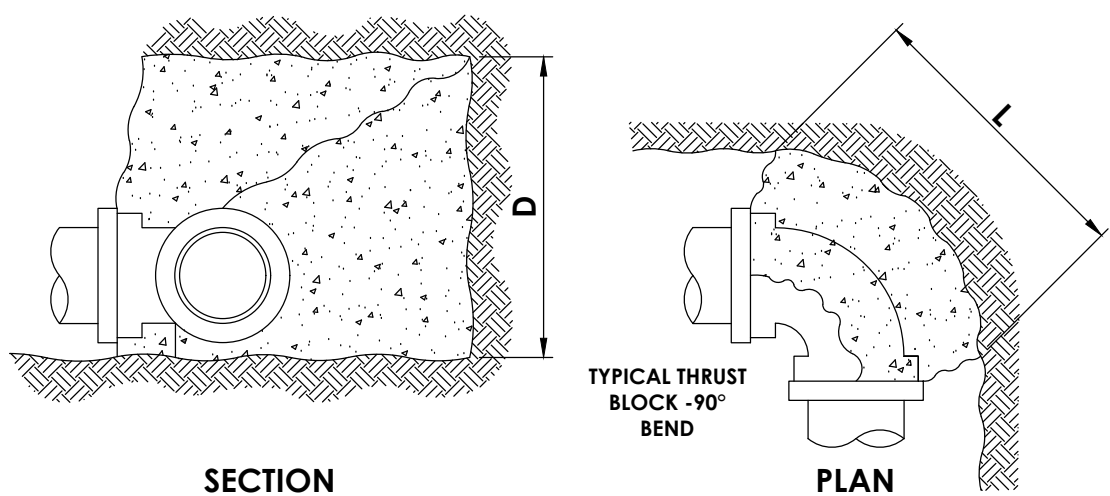
CONDITION	SCHEMATIC	REQUIREMENTS
I WATER LINE ABOVE SEWER LINE		A. WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B. BACKFILL WITH COMPACTED CRUSHER RUN STONE.
II WATER LINE ABOVE SEWER LINE		A. WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B. WHEN BOTH WATER LINE AND SEWER LINE ARE NEW, SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FEET EACH SIDE OF CROSSING. C. WHEN ONE LINE IS EXISTING, SLEEVE PIPE BEING INSTALLED WITH STEEL CASING FOR 10 FEET EACH SIDE OF CROSSING. D. BACKFILL WITH COMPACTED CRUSHER RUN STONE.
III SEWER LINE ABOVE WATER LINE		A. WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B. SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FEET EACH SIDE OF CROSSING. C. PROVIDE CRADLE OF CONCRETE OR CRUSHER RUN STONE (SEE TRENCH DETAIL BELOW FOR WATER LINE AND SEWER LINE FOR 10 FEET EACH SIDE OF CROSSING).



WATERMAIN/SEWER CROSSING DETAIL N.T.S.



SECTION TEE PLAN



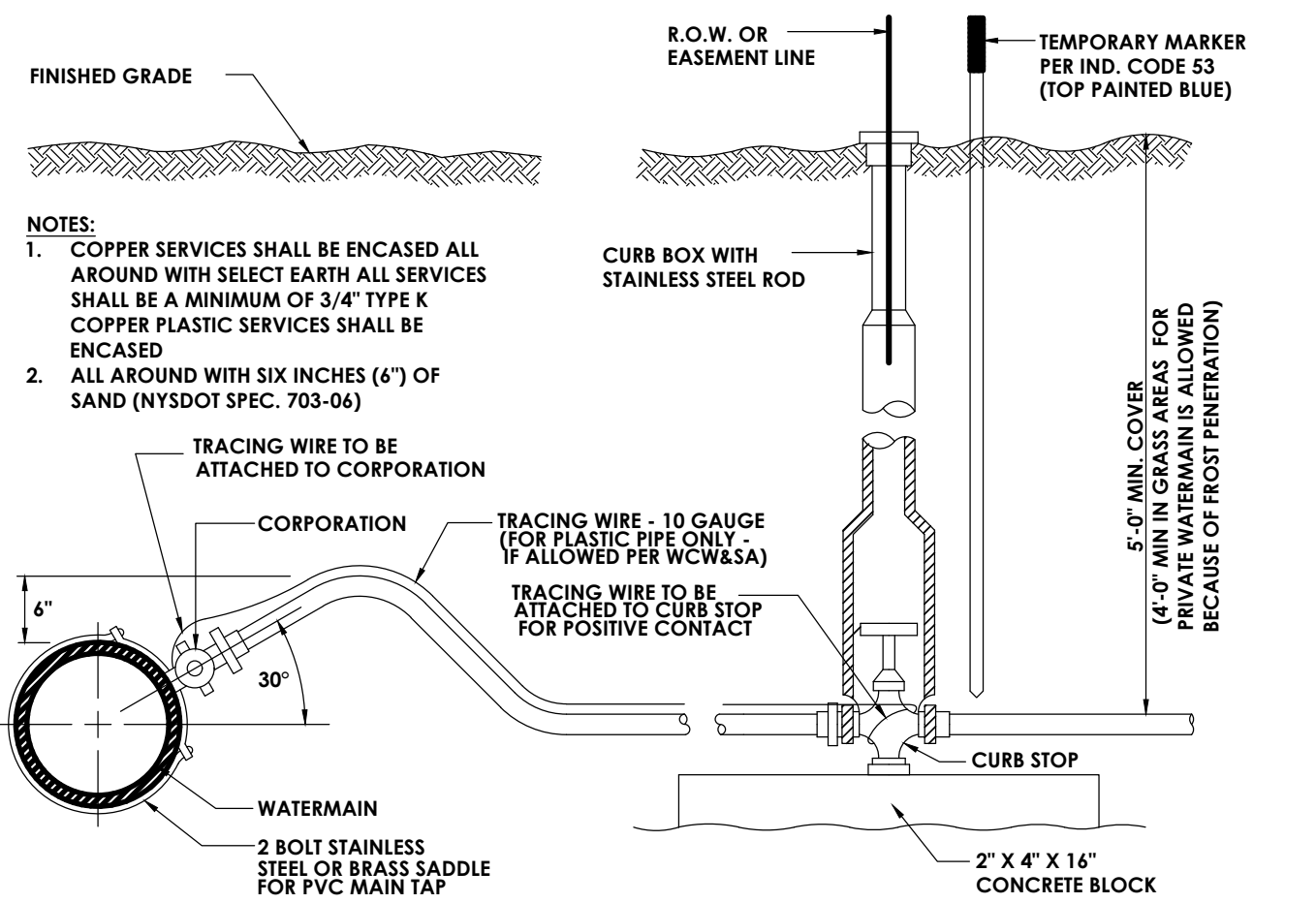
SECTION BEND PLAN

BEND THRUST BLOCK DETAIL N.T.S.

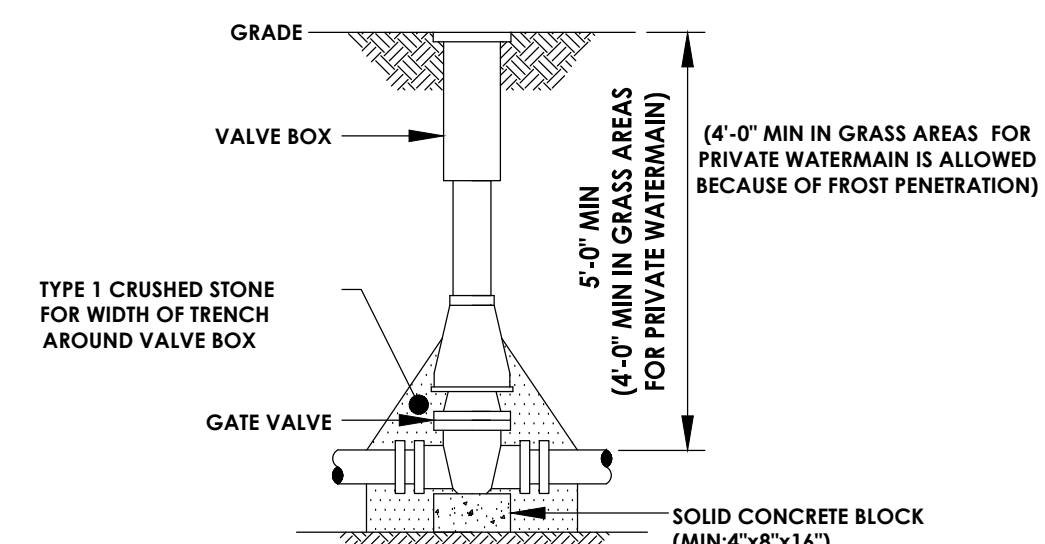
- NOTES:
- ALL DIMENSIONS ARE IN FEET.
 - BEARING AREAS ARE BASED ON ALLOWABLE SOIL BEARING PRESSURE OF 3000 PSF.
 - HEIGHT OF THRUST BLOCK SHOULD BE EQUAL TO OR LESS THAN 1/2 THE DEPTH FROM THE GROUND SURFACE TO THE BASE OF THE BLOCK.
 - ALL THRUST BLOCKS SHALL CURE A MINIMUM OF SEVEN (7) DAYS BEFORE ANY PRESSURE TESTS ARE CONDUCTED.

PIPE SIZE (INCHES)	WORKING PRESSURE (PSIG)	TEE OF PLUG		90° BEND		45° BEND		22-1/2° BEND	
		L	D	L	D	L	D	L	D
4	150	1.50	0.67	1.50	0.67	1.50	0.67	1.50	0.67
	250	1.50	0.67	1.67	0.75	1.50	0.67	1.50	0.67
6	150	1.67	0.75	2.00	1.00	1.50	0.67	1.50	0.67
	250	2.00	1.25	2.00	1.50	1.75	1.00	1.50	0.67
8	150	2.00	1.25	2.00	1.50	1.75	1.00	1.50	0.67
	250	2.25	1.75	3.00	2.00	2.00	1.50	1.67	1.00
10	150	2.00	1.75	2.50	2.00	1.75	1.50	1.67	1.00
	250	3.00	2.00	3.67	2.50	2.50	2.00	1.75	1.50
12	150	2.50	2.00	3.00	2.50	2.25	1.75	1.75	1.25
	250	3.67	2.50	4.00	3.00	3.00	2.33	2.00	1.75
14	150	3.00	2.33	4.00	2.50	2.75	2.00	2.00	1.50
	250	4.00	3.00	5.00	3.50	3.75	2.67	2.50	2.00
16	150	3.75	2.67	5.00	3.00	3.00	2.50	2.25	1.75
	250	5.00	3.25	6.00	3.50	4.00	3.00	3.25	2.00
18	150	4.00	3.00	5.50	3.25	3.67	2.50	2.50	2.00
	250	6.00	3.33	7.00	4.00	5.00	3.25	3.00	2.50
20	150	5.00	3.00	6.00	3.50	4.00	2.75	3.00	2.00
	250	6.50	4.00	8.00	4.50	6.00	3.25	4.00	2.50
24	150	6.00	3.33	7.00	4.25	5.00	3.25	3.67	2.50
	250	8.00	4.50	9.00	5.50	6.50	4.00	5.00	3.00

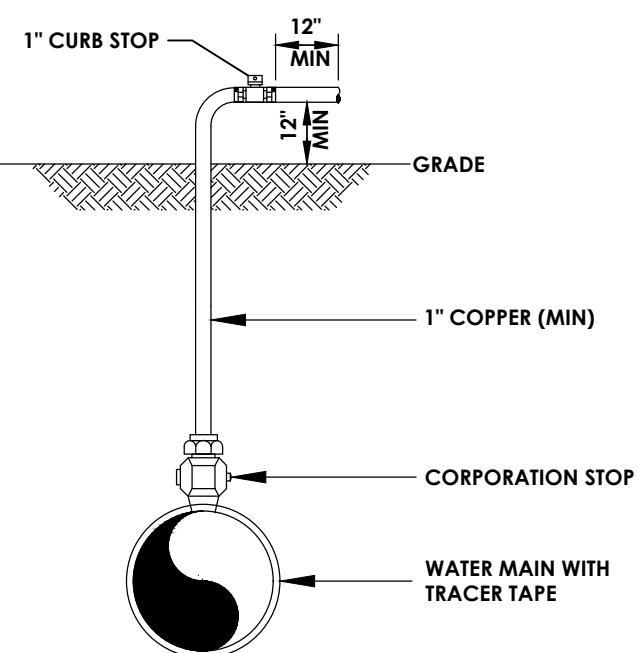
THRUST BLOCK DIMENSIONS N.T.S.



TYPICAL WATER SERVICE N.T.S.

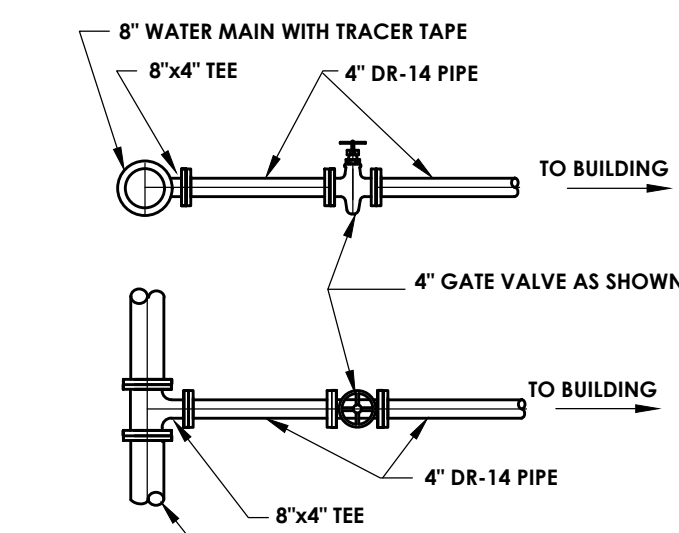


- NOTE:
- VALVE BOX SHALL BE CENTERED ON VALVE AND SET ON COMPACTED BACKFILL.
 - VALVE SHALL NOT SUPPORT VALVE BOX.
 - ALL BODY AND BONNET BOLTS SHALL BE STAINLESS STEEL.
 - ALL VALVES SHALL BE OPEN LEFT.



DISINFECTION/BLOW-OFF/SAMPLING TAP N.T.S.

NOTE: IMMEDIATELY PRIOR TO PLACING WATER MAIN IN SERVICE CONTRACTOR SHALL REMOVE ALL CORPORATIONS ASSOCIATED TEMPORARY FACILITIES (I.E. SAMPLING TAPS, ETC.) AND REPLACE WITH THREADED BRASS PLUGS.

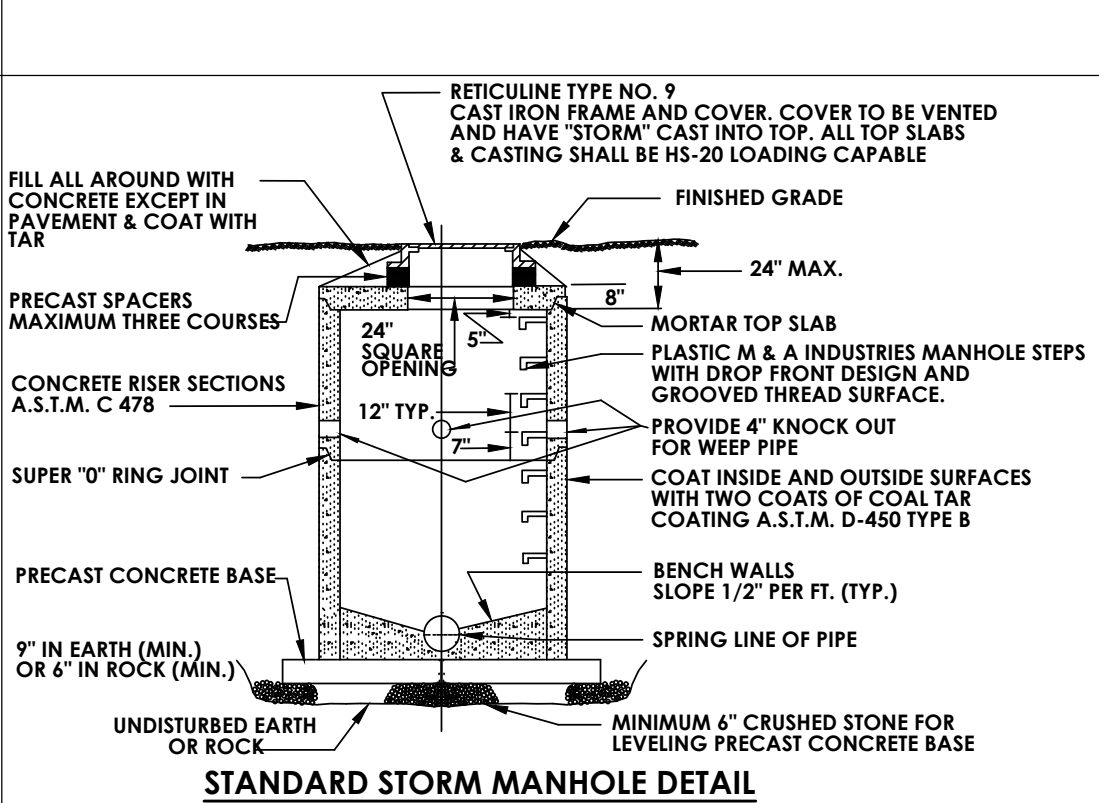


TYPICAL WATER SERVICE DETAIL N.T.S.

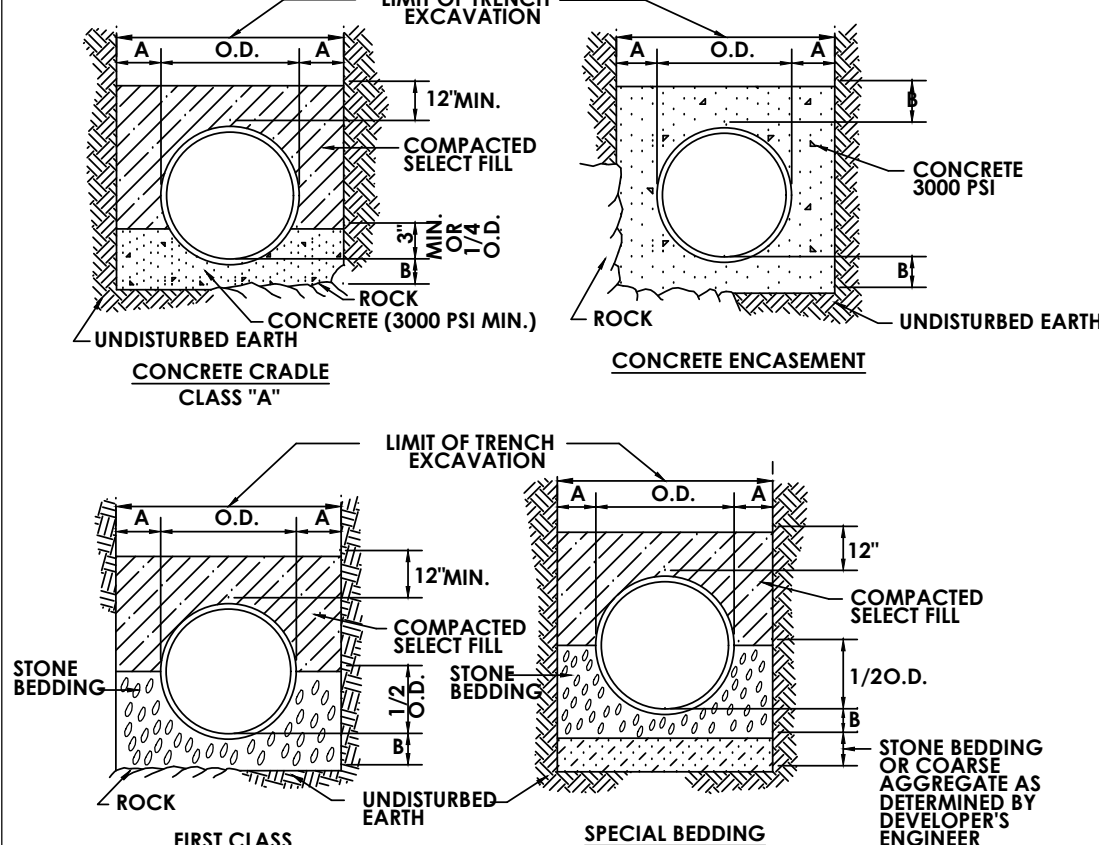
PIPE DIA. (INCHES)	TEST PRESSURE (P.S.I.)					
	100	125	150	175	200	
D.I.P. PER 1,000 L.F. OF LINE	6	0.45	0.50	0.55	0.59	0.64
	8	0.60	0.67	0.74	0.80	0.85
	10	0.75	0.84	0.92	0.99	1.06
	12	0.90	1.01	1.10	1.19	1.28
P.V.C. PER 1,000 L.F. OF LINE	6	0.41	0.45	0.50	0.53	0.57
	8	0.54	0.60	0.64	0.71	0.74
	10	0.68	0.75	0.83	0.90	0.94
	12	0.81	0.89	0.99	1.07	1.15

- NOTES:
- PRESSURE TESTS SHALL BE CONDUCTED SO THE PIPE SECTIONS ARE WITHIN 10 PSI OF THE TEST PRESSURE LOCATION.
 - PRESSURE TESTS SHALL BE CONDUCTED FOR A MINIMUM OF 2 HOURS.
 - LEAKAGE TESTS AT LINE PRESSURE SHALL BE CONDUCTED OVER A 24 HOUR PERIOD.

WATERMAIN PRESSURE TEST N.T.S.

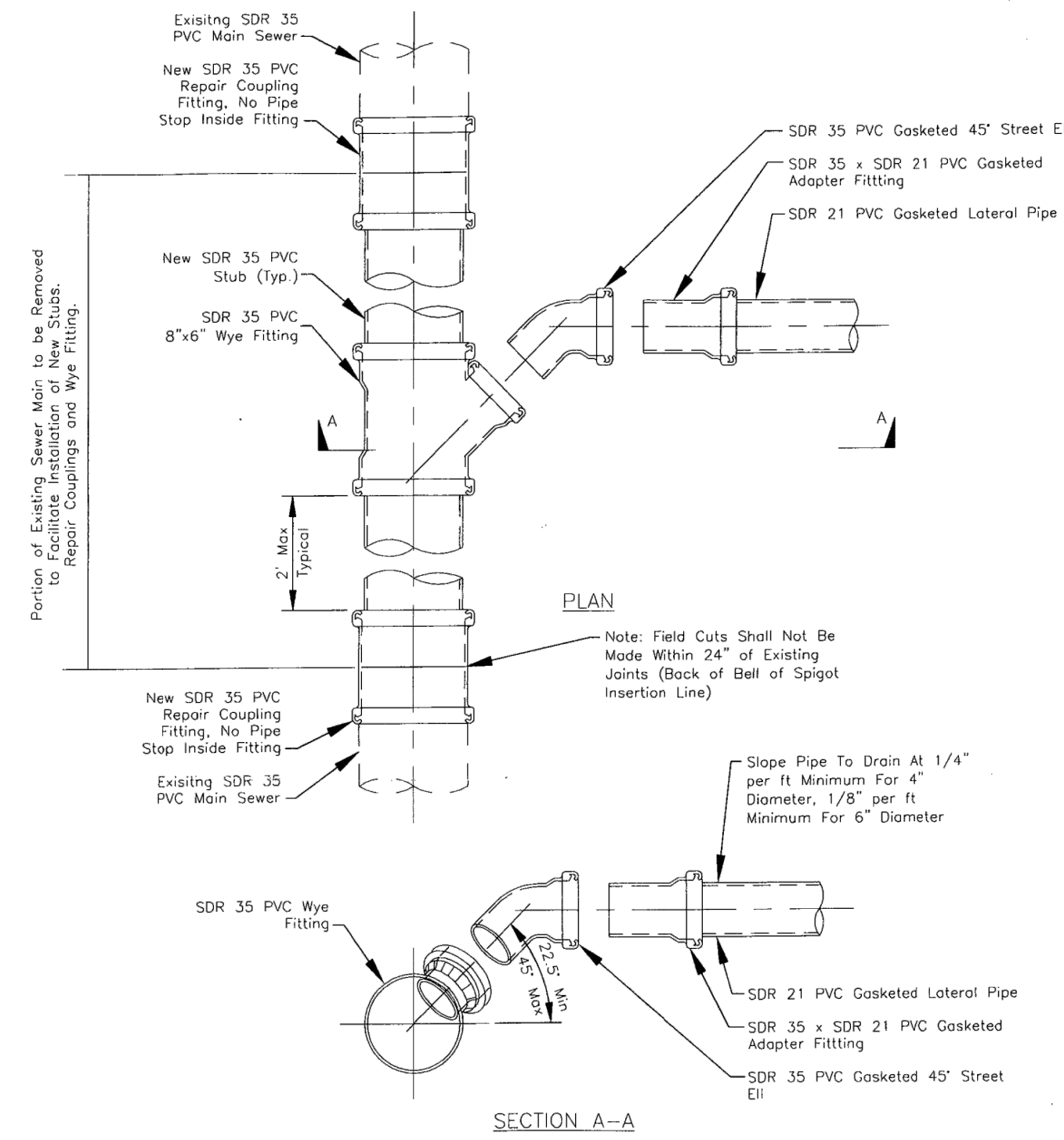


STANDARD STORM MANHOLE DETAIL N.T.S.



PIPE DIA.	DIM. A	DIM. B
UP TO 18"	1.0'	6"
21" TO 36"	1.5'	9"
OVER 36"	1.5'	12"

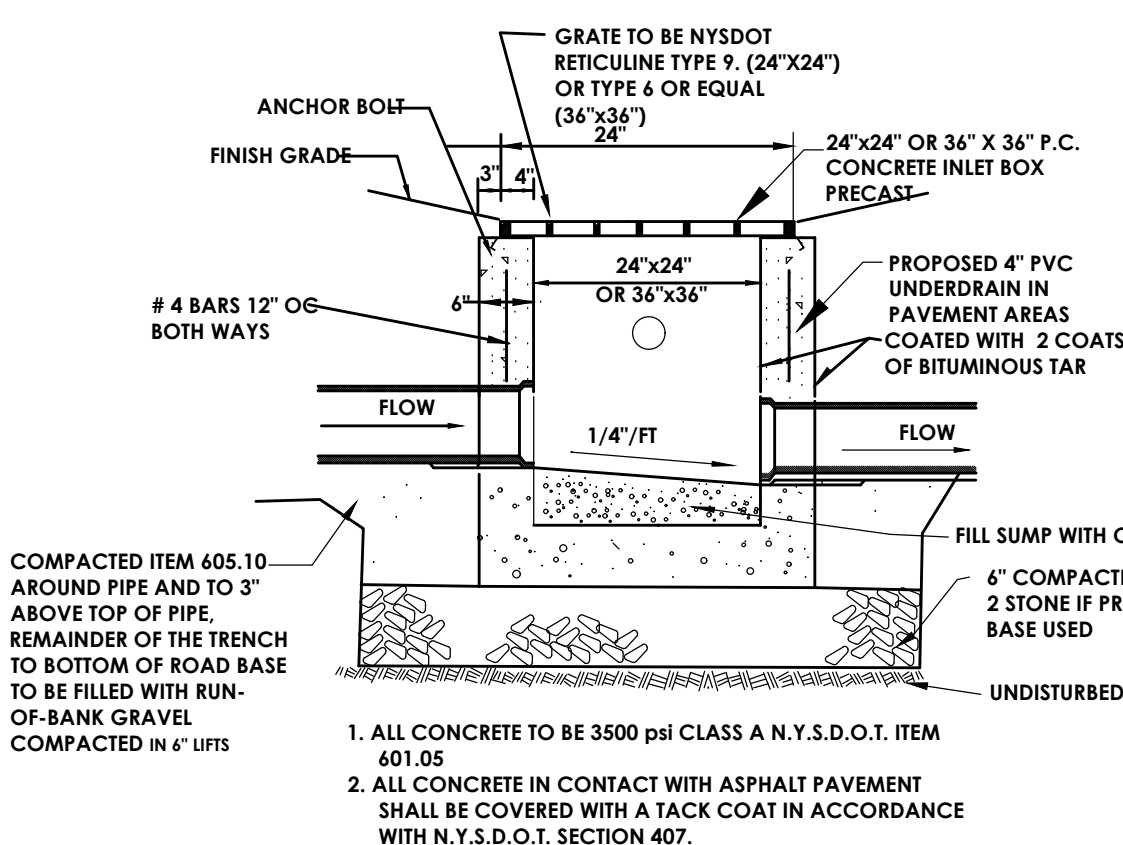
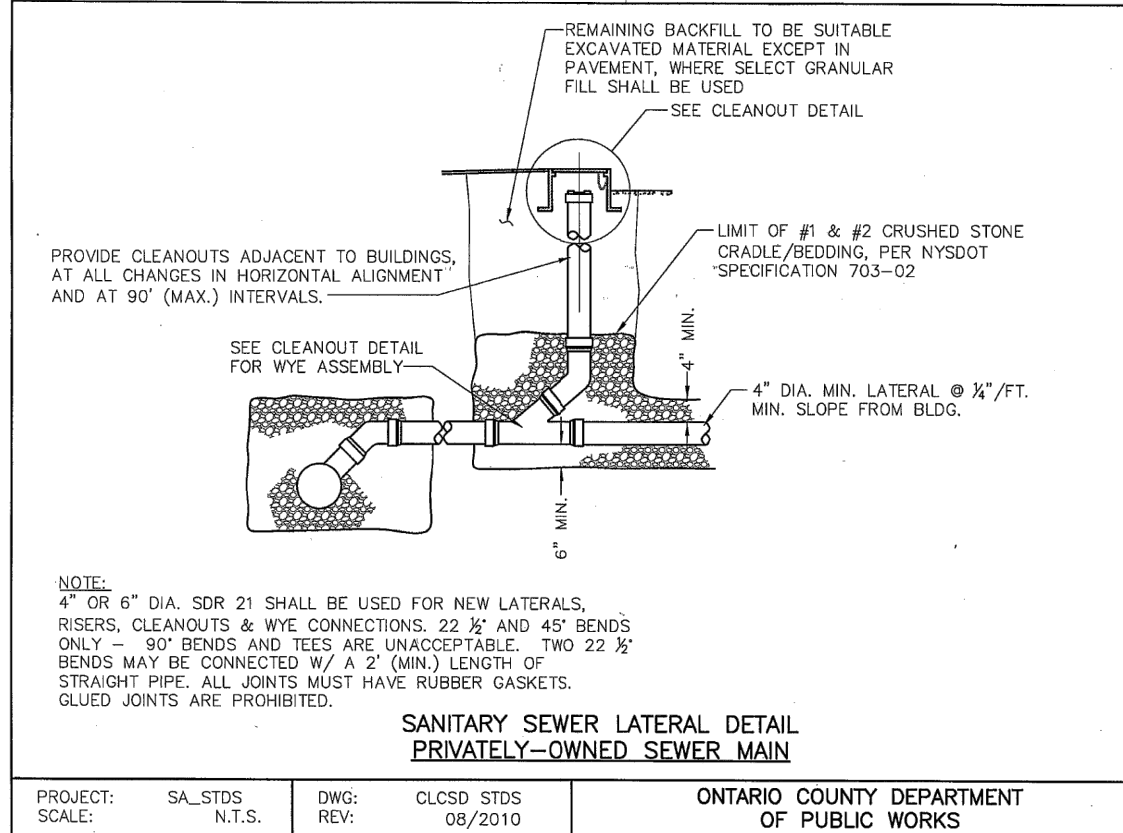
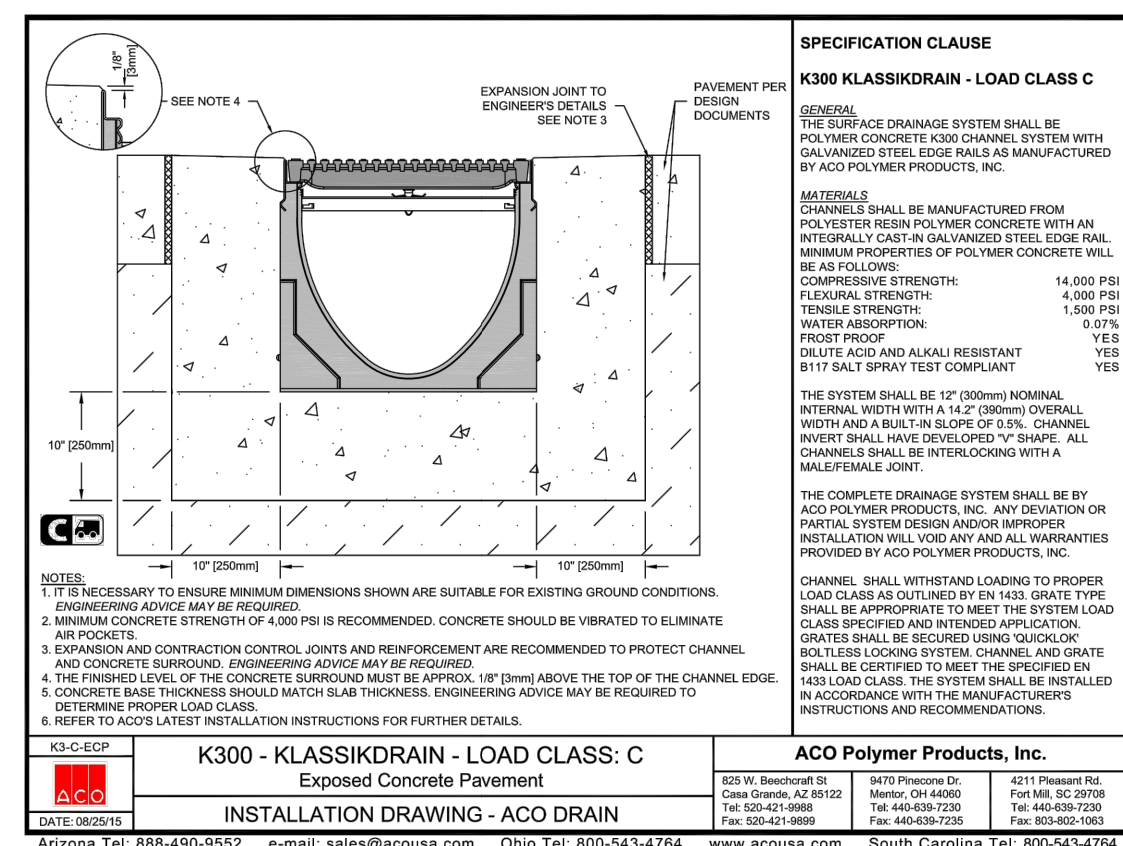
STORM SEWER/SANITARY SEWER BEDDING DETAILS N.T.S.



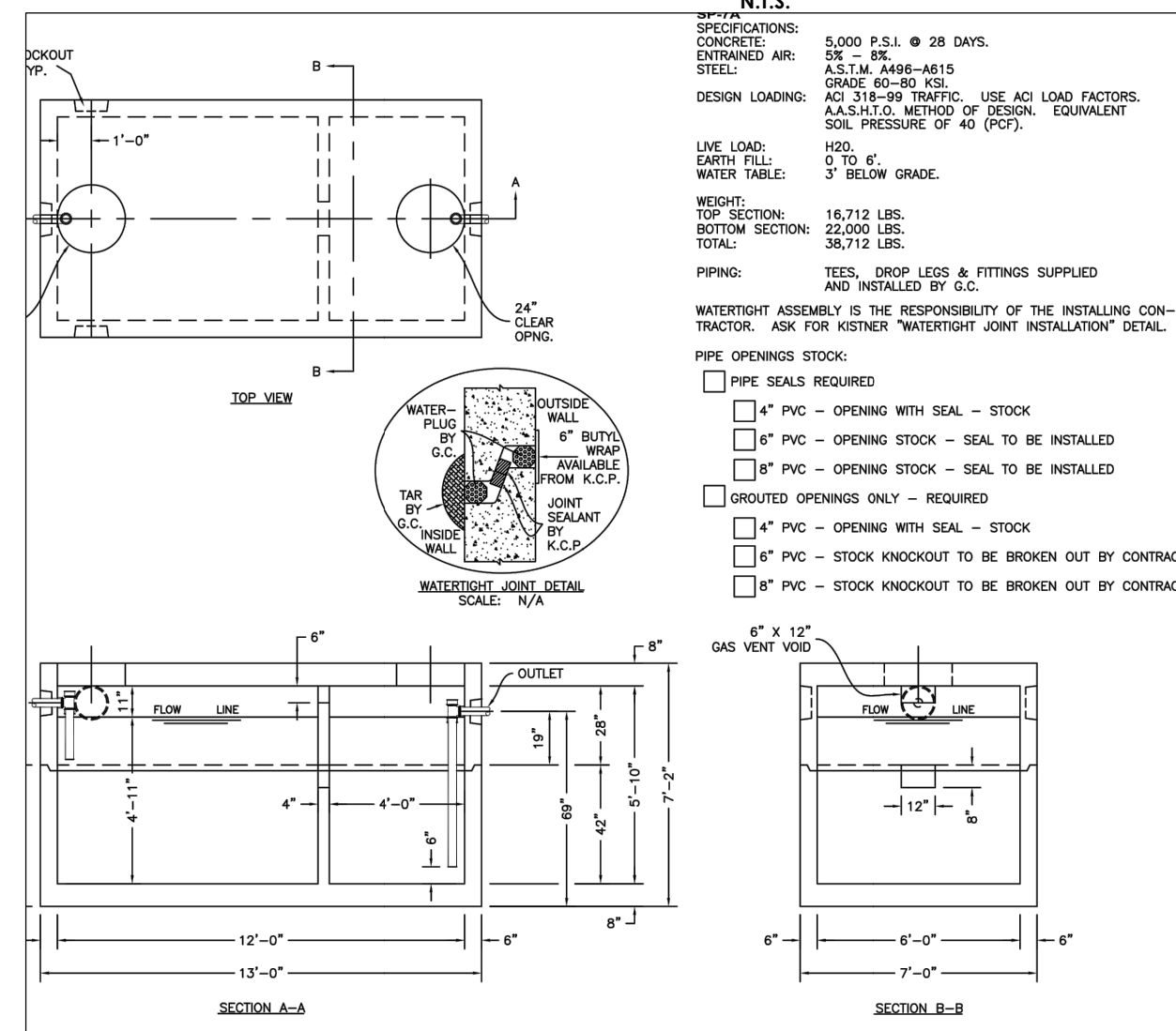
- NOTES:
- Main sewer pipe, lateral pipe, wye and other fittings shall be gasketed type fittings. Solvent weld joints are not allowed.

SEWER LATERAL CONNECTOR ONTARIO COUNTY DEPARTMENT OF PUBLIC WORKS

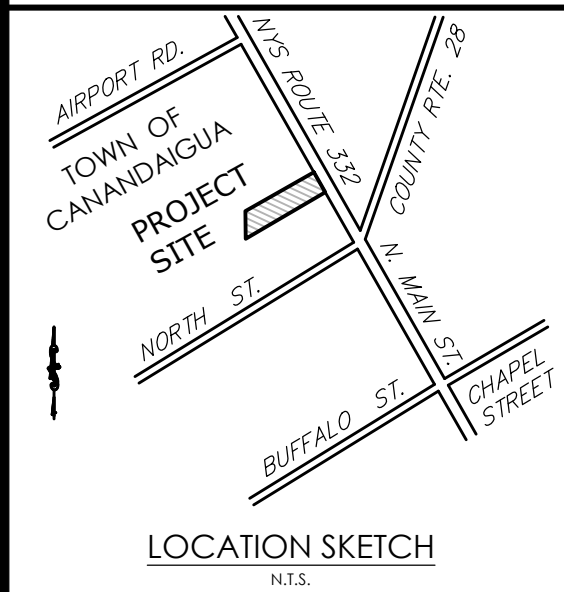
SANITARY & STORM SEWER DETAILS



STANDARD CATCH BASIN DETAIL N.T.S.



2,500 GALLON OIL WATER SEPARATOR



Client: ROYAL WASH CANANDAIGUA, LLC
2851 MONROE AVE
ROCHESTER, NY 14618

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(585) 325-1000
Fax: (585) 325-1691
Principal-in-Charge: Jess D. Sudol, P.E.
Project Manager: David L. Cox, P.E.
Designed by: Jon Daniels



Revisions			
No.	Date	By	Description

DETAILS
ROYAL CAR WASH
Town/City: Canandaigua
County: Ontario State: New York
Project No: 20182698.0001
Drawing No: C203 Sheet No: 9
Scale: N.T.S.
Date: MARCH 2019

NOT FOR CONSTRUCTION

NYSDOT STANDARD GENERAL PLAN NOTES

- ROAD TO BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
- ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES.
- MATERIALS, EQUIPMENT AND VEHICLES ARE NOT TO BE STORED OR PARKED WITHIN THE NEW YORK STATE RIGHT-OF-WAY.
- MAINTENANCE AND PROTECTION OF TRAFFIC MUST COMPLY WITH THE CURRENT NATIONAL MUTCD WITH NYS SUPPLEMENT, SECTION 619 OF THE CURRENT NYSDOT STANDARD SPECIFICATIONS, THESE PLANS AND AS ORDERED BY THE ASSISTANT RESIDENT ENGINEER. ON A NYSDOT CONSTRUCTION PROJECT, MAINTENANCE AND PROTECTION OF TRAFFIC MUST COMPLY WITH THESE PLANS AND BE IN ACCORDANCE WITH THE NYSDOT CONTRACT DOCUMENTS AS DEEMED NECESSARY BY THE NYS ENGINEER-IN-CHARGE.
- NOTIFY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S ASSISTANT RESIDENT ENGINEER AT THE APPROPRIATE NUMBER, AS NOTED BELOW, FIVE (5) WORK DAYS PRIOR TO WORKING WITHIN THE STATE RIGHT-OF-WAY.

GENESEE CO. - DAN STANLEY (585) 343-0502

LIVINGSTON CO. - ADAM KISIAH (585) 346-3036

MONROE CO. WEST OF GENESEE RIVER - DARRELL FAZIO (585) 352-3471

MONROE CO. EAST OF GENESEE RIVER - KEVIN KIESER (585) 586-4514

ONTARIO CO. - GREG TROST (585) 396-4955

ORLEANS CO. - ANDREW SHICK (585) 589-6455

WAYNE CO. - JEFF JONES (315) 332-4000

WYOMING CO. - KEN BITTNER (585) 786-3310

- THE PERMITTEE IS ADVISED THAT THE NYSDOT IS NOW REVIEWING ALL LANE CLOSURES ON THE PRIORITY NETWORK FOR IMPACT ON TRAFFIC OPERATIONS IN REAL-TIME. THE PRIORITY NETWORK CONSISTS OF INTERSTATES 390, 490 AND 590 AND STATE ROUTES 390, 590, 104 (FROM NY 390 TO WAYNE COUNTY), US 20, NY 63 (FROM STEUBEN COUNTY TO I 90) AND NY 77 IN GENESEE COUNTY. THE CLOSURE WILL BE EVALUATED IN THE LIGHT OF WHAT IS HAPPENING AT THAT TIME ON THE HIGHWAY. INCIDENTS, CONFLICTING WORK ZONES OR OTHER UNPLANNED EVENTS THAT RENDER THE HIGHWAY UNAVAILABLE FOR THE CLOSURE MAY RESULT IN A SHORT-TERM DISAPPROVAL OF THE CLOSURE UNTIL THE SITUATION HAS BEEN RESOLVED. EVALUATION PROCEDURES ARE AVAILABLE FOR REVIEW AT THE REGIONAL TRAFFIC OPERATIONS CENTER, 1155 SCOTTSVILLE ROAD, ROCHESTER, NY.
- NOTIFY THE NYSDOT SIGNAL MAINTENANCE FACILITY AT (585) 753-7793 5 DAYS PRIOR TO WORKING WITHIN 350' OF A SIGNALIZED INTERSECTION. NOTIFY DIG SAFELY NEW YORK 2 WORK DAYS PRIOR TO DIGGING, DRILLING OR BLASTING AT 811 FOR A UTILITY STAKE-OUT.
 - ALL MATERIALS USED WITHIN THE STATE RIGHT-OF-WAY MUST COMPLY WITH THE CURRENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS ALONG WITH ANY APPROPRIATE CURRENT NYS DEPARTMENT OF TRANSPORTATION'S STANDARD SHEETS.
 - QUALITY CONTROL OF ASPHALT CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 401 OF THE STANDARD SPECIFICATIONS. ALL ASPHALT PRODUCED AS PART OF SECTION 401 WILL BE PAID AT A FINAL QUANTITY ADJUSTMENT FACTOR OF 1.0. ASPHALT COURSE DEPTHS SHOWN ON THE PLANS ARE COMPACTED DEPTHS.
 - NO NIGHT WORK SHALL BE ALLOWED UNLESS APPROVED PRIOR TO START OF PROJECT. ADDITIONAL MAINTENANCE AND PROTECTION OF TRAFFIC MAY BE REQUIRED INCLUDING THE ADDITION OF REFLECTIVE MATERIALS AND LIGHTING.
 - HAZARDOUS WASTE NOTIFICATION - THE PERMITTEE ACCEPTS THE RIGHT-OF-WAY OF THE STATE HIGHWAY IN ITS "AS IS" CONDITION. THE DEPARTMENT OF TRANSPORTATION MAKES NO REPRESENTATION AS TO THE ABSENCE OF UNDERGROUND TANKS, STRUCTURES, FEATURES OR SIMILAR IMPEDIMENTS TO THE COMPLETION OF THE WORK PERMITTED HEREUNDER. SHOULD PERMITTEE FIND SOME PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS TO ITS WORK, THE DEPARTMENT OF TRANSPORTATION SHALL HAVE NO OBLIGATION TO CURE, REMOVE, REMEDY OR OTHERWISE DEAL WITH SUCH PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS. THE PERMITTEE IS REQUIRED TO REMOVE, MODIFY OR OTHERWISE DEAL WITH SUCH UNDERGROUND TANKS, STRUCTURES, FEATURES OR IMPEDIMENTS IN A MANNER WHICH MEETS ACCEPTABLE ENGINEERING PRACTICE AND IS APPROVED BY THE DEPARTMENT OF TRANSPORTATION.
 - ADA COMPLIANCE - ALL WORK ON PEDESTRIAN FACILITIES SHALL BE COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT (ADA). 05/2018

NYSDOT REGION 4 UTILITY PERMIT NOTES

- ROAD PAVEMENT, SHOULDER AND DRAINAGE ARE NOT TO BE DISTURBED OR UNDERMINED UNLESS INDICATED OTHERWISE IN THE PLANS.
- SUITABLE NON-FROZEN, NON SATURATED BACKFILL TO BE USED AND PLACED IN 6" COMPACTED LIFTS.
- PAVEMENT TO BE MAINTAINED UNTIL A PERMANENT REPAIR CAN BE MADE.
- PAVEMENT TO BE REPLACED IN KIND OR AS SPECIFIED ON ATTACHED PLANS.
- ALL DISTURBED GRASS AREAS WITHIN THE R.O.W. ARE TO BE FINE GRADED, 4" TOPSOIL PLACED AND TURF ESTABLISHED.

NOTE

ROAD PLATES SHALL NOT BE USED DURING THE ASNOW AND ICE SEASON® (NOVEMBER 1ST THROUGH APRIL 1ST). DURING THE MONTHS OF OCTOBER AND APRIL, CALL THE WORK AREA JURISDICTIONAL N.Y.S.D.O.T. TRANSPORTATION MAINTENANCE RESIDENCY WITH PLATE LOCATIONS. ROAD PLATES SHALL BE PINNED AND RAMPED. A "STEEL PLATE AHEAD" SIGN (W8-24) SHALL BE INSTALLED IN ADVANCE OF THE PLATE IN ACCORDANCE WITH TABLE NY6H-3 ON STANDARD SHEET 619-11. IF THE SURFACE OF THE PLATE IS 1" OR GREATER ABOVE/BELOW THE SURROUNDING PAVEMENT, A "BUMP" SIGN (W8-1) SHALL BE INSTALLED BETWEEN THE PLATE AND "STEEL PLATE AHEAD" SIGN IN ACCORDANCE WITH TABLE NY6H-3 ON STANDARD SHEET 619-11 AND A BARREL WITH A TYPE A FLASHER SHALL BE PLACED ON THE SHOULDER AT THE PLATE.

WINTER ASPHALT PAVEMENT AND SHOULDER RESTORATION

EXCAVATION BACKFILL SHALL BE WITH NO. 2 STONE (NOT CRUSHER RUN), ITEM 623.12, PLACED TO SIX INCHES (6") BELOW THE EXISTING PAVEMENT SURFACE. THE REMAINING SIX INCHES (6") SHALL HAVE CONCRETE PLACED TO MATCH EXISTING ADJACENT PAVEMENT GRADE AND SHALL HAVE A GOOD, SMOOTH, NON-POLISHED RIDING SURFACE.

IN THE SPRING, WHEN ASPHALT PLANTS OPEN, THE CONCRETE AND STONE SHALL BE REMOVED TO THE EXISTING BOTTOM OF THE SUBBASE IN ORDER TO PERFORM FINAL RESTORATION PER PREVIOUSLY APPROVED N.Y.S.D.O.T. PAVEMENT RESTORATION PROCEDURES.

TEST PITS

ALL TEST PITS IN THE PAVEMENT SHALL BE COMPLETED BY AN 18" SQUARE/ROUND VACUUM EXCAVATION.

EXCAVATION SUPPORT SYSTEM REQUIREMENTS

ANY EXCAVATION 5 FEET OR MORE IN DEPTH SHALL UTILIZE A SHIELDS AND SHORING OR SHEETING SYSTEM WHICH PROVIDES DIRECT CONTACT AND SUPPORT OF THE EXCAVATION SIDES. THE SYSTEM SHALL ACCOMMODATE ANY ASSOCIATED SURCHARGE LOADS AND SHALL BE SUBMITTED TO NYSDOT'S REGIONAL GEOTECHNICAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE.

A SLOPING (LAYBACK) OPTION WILL NOT BE ALLOWED.

SHIELDS AND SHORING OR SHEETING SYSTEM REQUIREMENTS DO NOT PERTAIN TO TEST PITS WHICH ARE 18" OR LESS IN DIAMETER.

R-4 (03/15)

HIGHWAY RESTORATION DETAIL NOTES

- HMA ITEMS ARE BASED ON PG 44-22 BINDER. ESALS LESS THAN 30,000,000. TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF ASPHALT. USE OF POLYPHOSPHORIC ACID (PPA) TO MODIFY THE PG BINDER PROPERTIES IS PROHIBITED. THIS PROHIBITION ALSO APPLIES TO THE USE OF PPA AS A CROSS-LINKING AGENT FOR POLYMER MODIFICATION.
- BUTT JOINTS, CREATED BY A FULL-DEPTH SAWCUT, SHALL BE USED BETWEEN NEW AND EXISTING PAVEMENTS. THE ASPHALT TOP COURSE SHALL BE LAID SUCH THAT IT UNIFORMLY OVERLAPS THE ADJACENT COLD MAT BY 2"-3". THE THICKNESS OF THE OVERLAY MATERIAL SHALL BE 1/4 THE COMPACTED THICKNESS OF THE COURSE, SO AS TO RESULT IN A SMOOTH AND WELL COMPACTED JOINT AFTER ROLLING. BROADCASTING OF THE OVERLAY MATERIAL ONTO THE LANE IS NOT ALLOWED. IF THE OVERLAY IS EXCESSIVE, THE EXCESS MATERIAL SHALL BE TRIMMED OFF SO THAT THE MATERIAL ALONG THE JOINT IS UNIFORM. THE COARSE PARTICLES OF AGGREGATE IN THE OVERLAY MATERIAL SHALL BE REMOVED AND WASTED IF DEEMED NECESSARY BY THE INSPECTOR. ASPHALT PAVEMENT JOINT ADHESIVE SHALL BE USED ON VERTICAL FACES FOR ALL OF THE JOINTS ON THE SURFACE COURSE SUCH AS LONGITUDINAL, TRANSVERSE AND OTHER JOINTS BUTTING AGAINST THE NEW ASPHALT PAVEMENT.
- DESIGN PGB CONTENT SELECTION
THE PRODUCER SELECTS THE DESIGN PGB CONTENT AT THE BINDER CONTENT THAT RESULTS IN A COMPACTED DENSITY OF 96.5% GAMM AT THE DESIGN NUMBER OF GRAYATIONS (DESIGN). UNDER NO CIRCUMSTANCES SHALL THE PERFORMANCE GRADED BINDER CONTENT IN THE HMA MIXTURE BE LESS THAN 5.8% FOR A 9.5 DESIGN, 5.2% FOR A 12.5 DESIGN, 4.5% FOR A 19.0 DESIGN, 4.2% FOR A 25.0 DESIGN, OR 3.7% FOR A 37.5 DESIGN. ALL VOLUMETRIC AND MECHANICAL PROPERTIES ARE CHECKED AT THIS PGB CONTENT TO ENSURE THAT ALL REQUIREMENTS ARE MET.
- PERFORM ALL WARRANTY WORK IN ACCORDANCE WITH MATERIALS PROCEDURE (MP) 402-01, WARRANTY REQUIREMENTS FOR HOT MIX ASPHALT (HMA) TOP COURSE.
- AS PER STANDARD SPECIFICATION SECTION 401-4.01 CERTIFIED PRODUCTION, PRODUCTION LESS THAN 500 TONS, AND HIGHWAY PERMIT PRODUCTION, PRODUCTION MEETING THE SPECIFICATION REQUIREMENTS WILL BE ASSIGNED A QAF OF 1.00. PRODUCTION FAILING TO MEET THE SPECIFICATION REQUIREMENTS WILL BE SUBJECT TO EVALUATION ACCORDING TO SECTION 401-4.03. EVALUATION OF SUBLOTS REPRESENTED BY 0.85 GAF.

NYSDOT STANDARD WORK ZONE TRAFFIC CONTROL NOTES

GENERAL NOTES

- THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS AND IN THE MUTCD, REFLECT THE MINIMUM REQUIREMENTS.
- THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE FIVE (5) WORK DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE SCOPE OF THE TRAFFIC CONTROL PLAN. SUCH CHANGES IN SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, AND THE LOCAL POLICE.

ACTIVITY AREA

- THE CONTRACTOR SHALL MAINTAIN A MINIMUM 500' LONGITUDINAL DISTANCE BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- WHEN TWO OR MORE ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY, THE CONTRACTOR SHALL ENSURE THERE ARE NO CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.

SIGNS

- THE LOCATIONS OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.
- ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.

- SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.

- ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF MULTI-LANE DIVIDED HIGHWAYS, MULTI-LANE RAMPS, AND ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

- SIGNS MOUNTED ON THE MEDIAN OF DIVIDED HIGHWAYS WHERE MEDIAN BARRIER IS IN PLACE MAY BE MOUNTED ON THE BARRIER WITH A SADDLE TYPE BRACKET. LAYING THE SIGN DOWN IN A HORIZONTAL POSITION IS NOT PERMITTED.

- THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD. ANY CHANGES TO THE DIMENSIONS SHALL BE APPROVED BY THE REGIONAL DIRECTOR OR BY HIS/HER DESIGNEE. NYR9-12 MAY BE USED IN PLACE OF NYR9-11.

CHANNELIZING DEVICES

- WHERE POSSIBLE ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 2' LATERAL CLEARANCE TO THE TRAVELED WAY.

PUBLIC ACCESS

- PROPERTY OWNERS WHOSE DRIVEWAYS WILL BE MADE INACCESSIBLE SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS PRIOR TO RESTRICTING USE OF THE DRIVEWAY. FOR MULTIPLE ACCESS PROPERTIES, AT LEAST ONE DRIVEWAY SHALL BE OPEN AT ALL TIMES. ACCESS SHALL BE RESTORED TO ALL DRIVEWAYS AS SOON AS POSSIBLE.

- SUITABLE RAMPS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.

LANE CLOSURES

- THE CONTRACTOR SHALL LOCATE LANE CLOSURES TO PROVIDE OPTIMUM VISIBILITY, I.E. BEFORE CURVES AND CRESTS, TO THE EXTENT CONDITIONS PERMIT.
- THE ENGINEER MAY REQUIRE THAT ALL LANES BE RE-OPENED AT ANY TIME IF THE ROUTE IS NEEDED FOR EMERGENCY PURPOSES. THIS COULD INCLUDE INCIDENTS AT LOCATIONS OUTSIDE THE CONTRACT LIMITS.

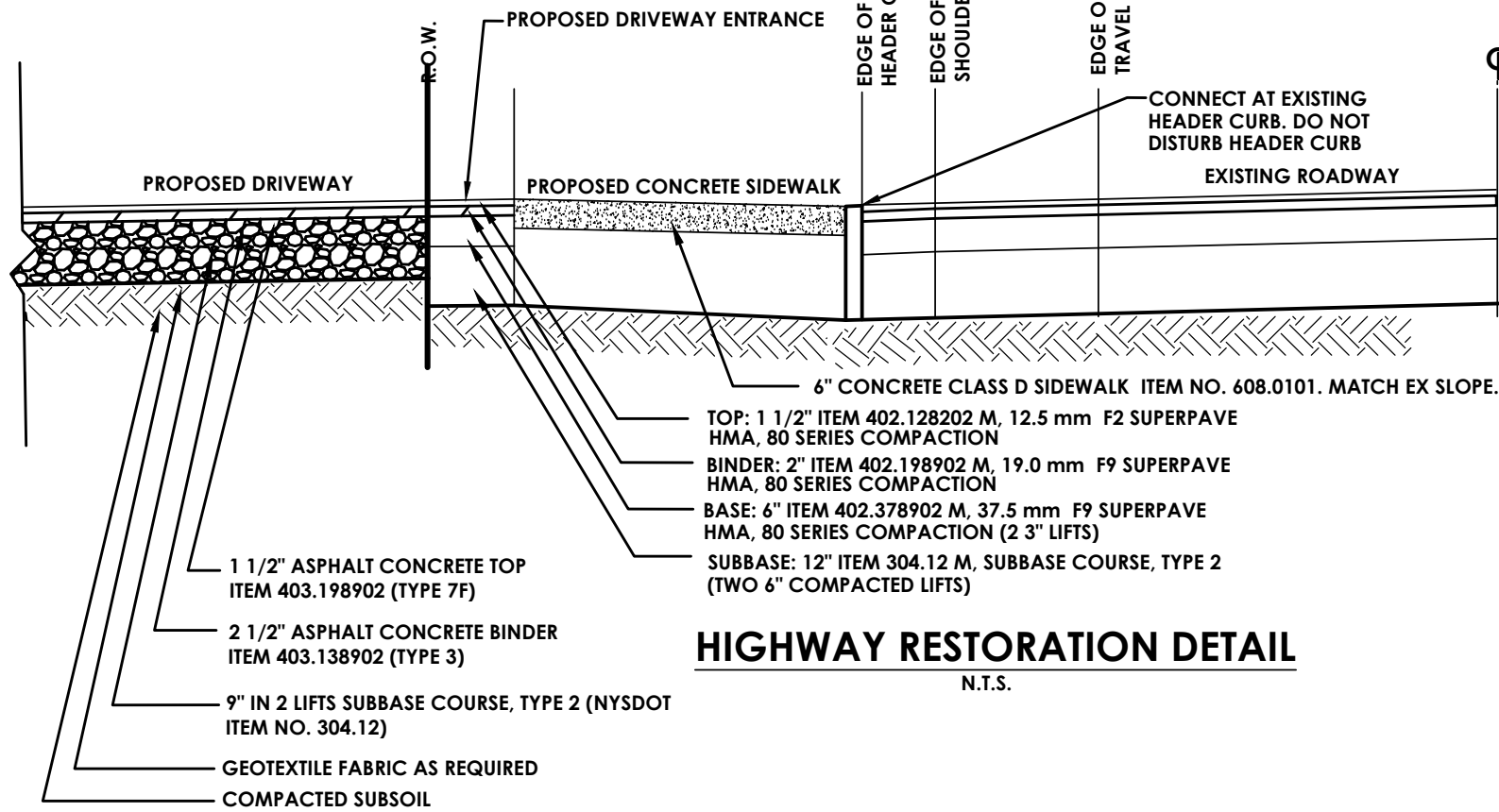
LANE WIDTHS

- UNLESS AUTHORIZED BY THE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: FREEWAYS AND/OR EXPRESSWAYS IS 11'. THE MINIMUM LANE WIDTH FOR ALL OTHER TYPES OF ROADWAYS IS 10'.

- THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE ENGINEER, A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF PERFORMING ANY WORK THAT RESULTS IN THE REDUCED WIDTH OF AN EXISTING ROADWAY, SO THAT THE ENGINEER MAY NOTIFY THE REGIONAL PERMIT ENGINEER IN A TIMELY MANNER.

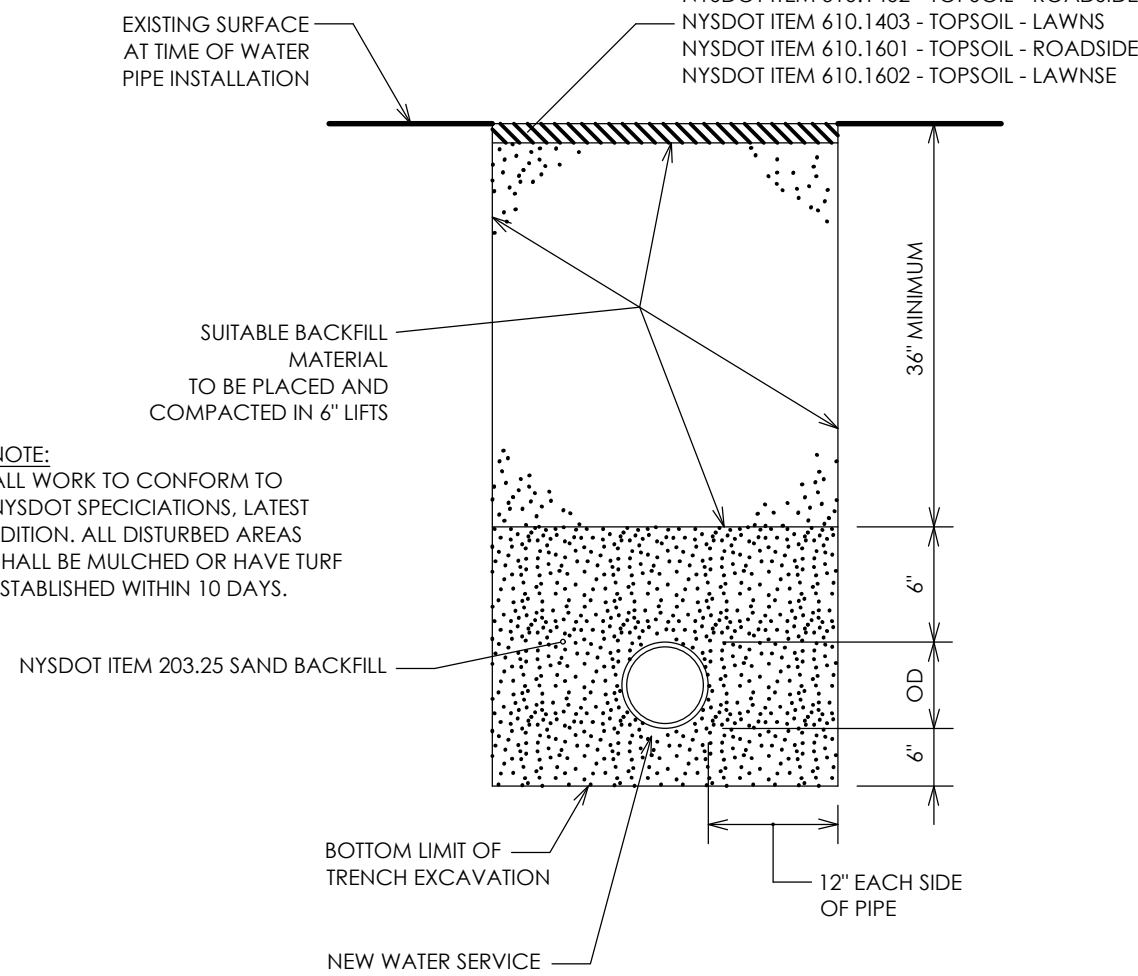
BARRIER/SHADOW VEHICLES

- BARRIER AND SHADOW VEHICLES SHALL BE REQUIRED AS PER STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES"
- NO WORK ACTIVITY, EQUIPMENT, VEHICLES, AND/OR MATERIALS SHALL BE LOCATED BETWEEN THE BARRIER OR SHADOW VEHICLE AND THE ACTIVE WORK AREA (ROLL AHEAD DISTANCE).
- THE CONTRACTOR MAY BE REQUIRED TO PROVIDE A BARRIER VEHICLE IN CONJUNCTION WITH POLICE PRESENCE IN THE WORK ZONE, TO BE INCLUDED IN THE UNIT BID PRICE FOR BASIC WORK ZONE TRAFFIC CONTROL.



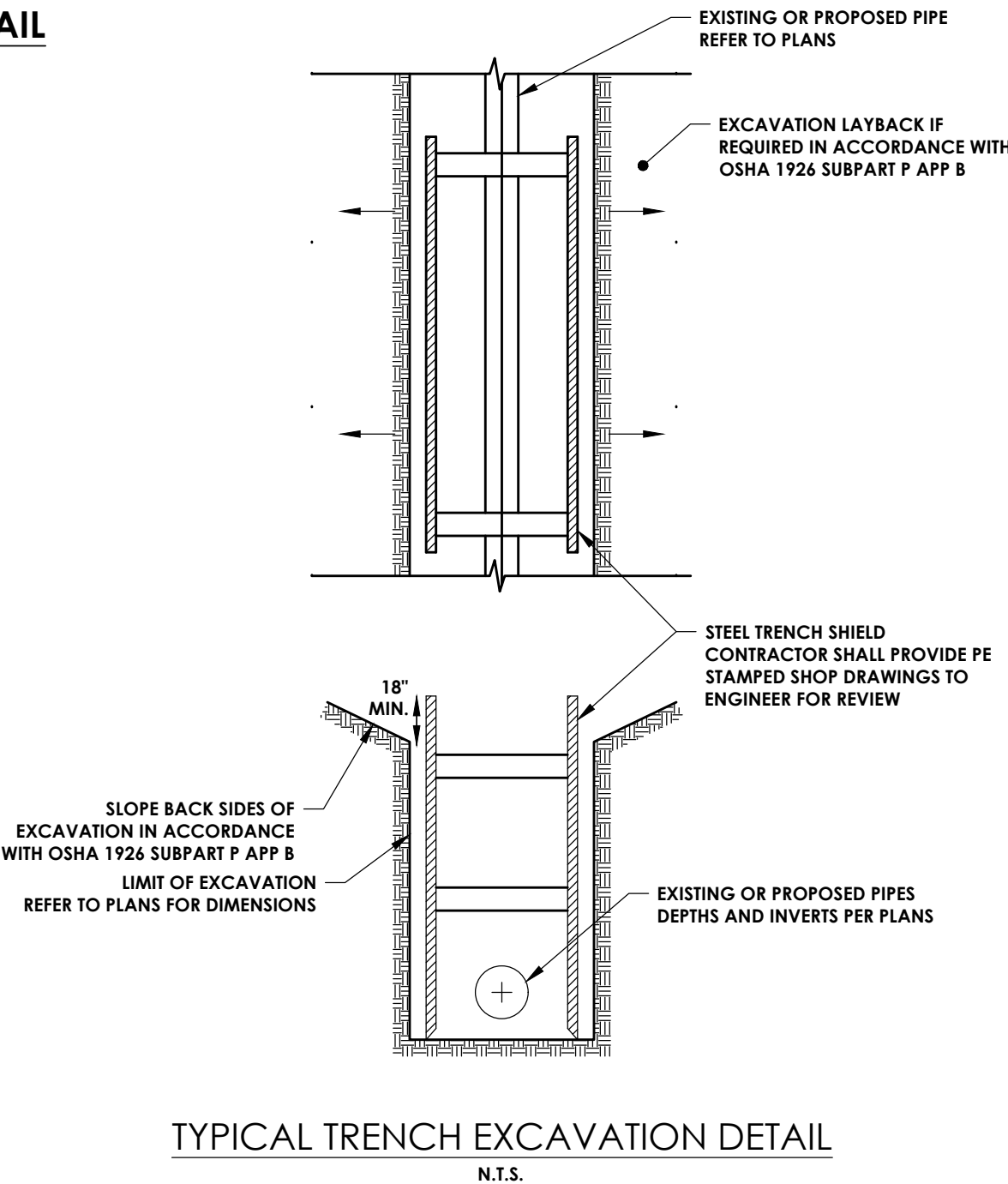
HIGHWAY RESTORATION DETAIL

N.T.S.



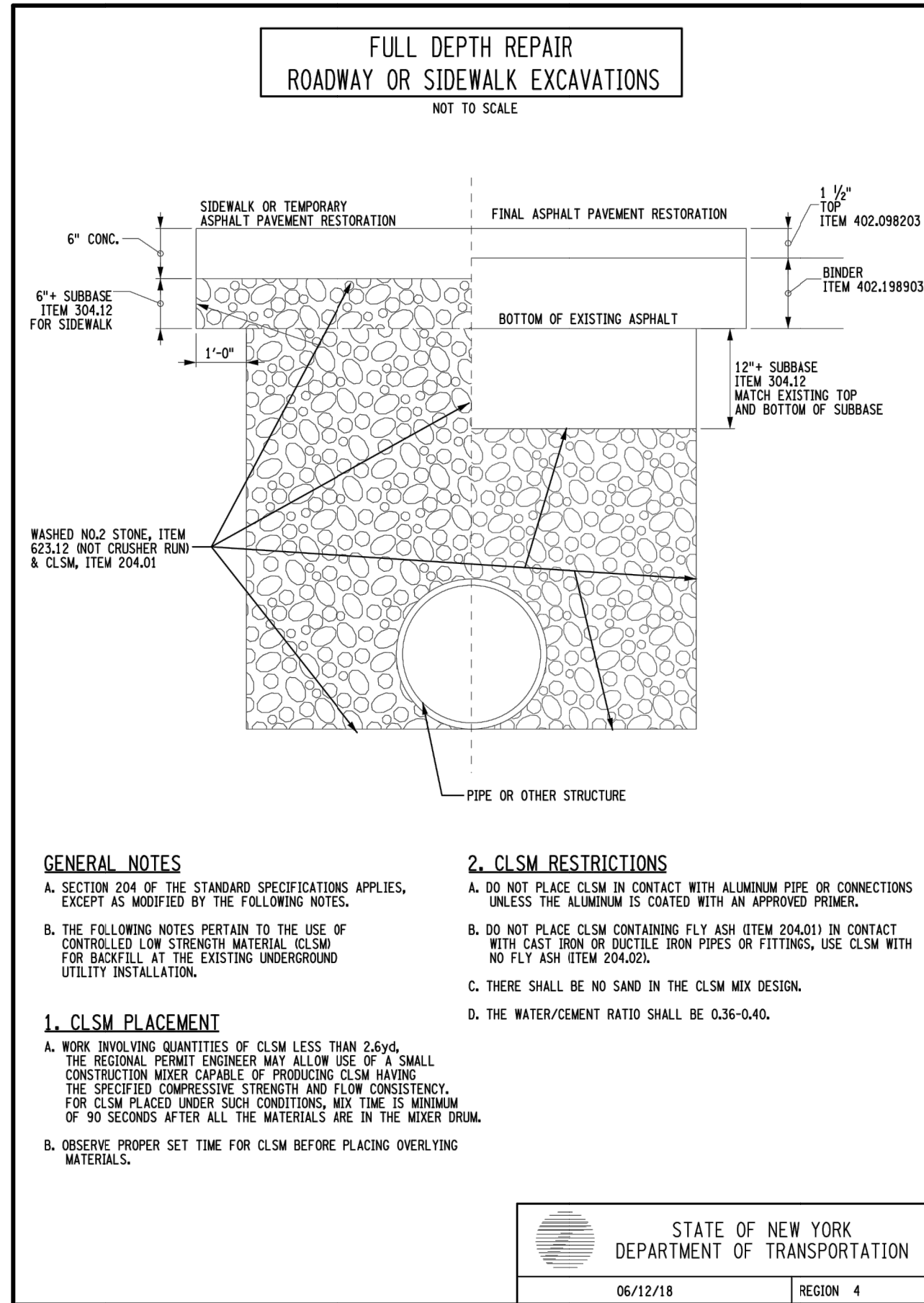
NYSDOT ROW LAWN RESTORATION DETAIL

EXCAVATION NOTE: EXCAVATIONS WITH THE NEW YORK STATE RIGHT-OF-WAY SHALL NOT BE LEFT OPEN OVER NIGHT



TYPICAL TRENCH EXCAVATION DETAIL

N.T.S.



GENERAL NOTES

- SECTION 204 OF THE STANDARD SPECIFICATIONS APPLIES, EXCEPT AS MODIFIED BY THE FOLLOWING NOTES.
- THE FOLLOWING NOTES PERTAIN TO THE USE OF CONTROLLED LOW STRENGTH MATERIAL (CLSM) FOR BACKFILL AT THE EXISTING UNDERGROUND UTILITY INSTALLATION.

CLSM RESTRICTIONS

- DO NOT PLACE CLSM IN CONTACT WITH ALUMINUM PIPE OR CONNECTIONS UNLESS THE ALUMINUM IS COATED WITH AN APPROVED PRIMER.
- DO NOT PLACE CLSM CONTAINING FLY ASH (ITEM 204.01) IN CONTACT WITH CAST IRON OR DUCTILE IRON PIPES OR FITTINGS. USE CLSM WITH NO FLY ASH ITEM 204.02.
- THERE SHALL BE NO SAND IN THE CLSM MIX DESIGN.
- THE WATER/CEMENT RATIO SHALL BE 0.36-0.40.

CLSM PLACEMENT

- WORK INVOLVING QUANTITIES OF CLSM LESS THAN 2,6yd³. THE REGIONAL PERMIT ENGINEER MAY ALLOW USE OF A SMALL CONSTRUCTION MIXER CAPABLE OF PRODUCING CLSM HAVING THE SPECIFIED COMPRESSIVE STRENGTH AND FLOW CONSISTENCY. FOR CLSM PLACED UNDER SUCH CONDITIONS, MIX TIME IS MINIMUM OF 90 SECONDS AFTER ALL THE MATERIALS ARE IN THE MIXER DRUM.
- OBSERVE PROPER SET TIME FOR CLSM BEFORE PLACING OVERLYING MATERIALS.



URBAN HIGHWAY

- Notes:
- Short-term stationary is daytime work that occupies a location for more than 1 hour within a single daylight period.
 - In urban conditions, advance warning sign spacing may be reduced (100 FT. Min.) in order to accommodate side streets and driveways.
 - The barrier vehicle shall be an unoccupied large dump truck, with the parking brake set and with the front wheels turned away from the employees in the work area.
 - There shall be no workers, equipment, or other vehicles in the buffer space or the roll ahead distance.
 - Any buffer distance provided in advance of the barrier vehicle set-up, will add to the safety of the work area. The buffer space is from the end of the lane taper to the beginning of the work area.
 - State Law signs (NYR9-11 or NYR9-12) are optional if the anticipated work duration is less than 4 hours. If used, State Law sign to be placed 300-500 FT. In advance of initial warning sign.

Speed Limit (Mph)	Buffer Space	Roll Ahead Distance
30	200' (5 Skip Lines)	40' (1 Skip Line)
35	250' (-6 Skip Lines)	40' (1 Skip Line)
40	305' (-8 Skip Lines)	40' (1 Skip Line)
45	360' (9 Skip Lines)	80' (2 Skip Lines)
50	425' (-11 Skip Lines)	80' (2 Skip Lines)
55	495' (-13 Skip Lines)	80' (2 Skip Lines)

END ROAD WORK

G20-2 36x18 in.

ROAD WORK AHEAD

W20-1 36x36 in.

SHOULDER WORK

W21-5 36x36 in.

Work Area

Arrow Panel

Barrier Vehicle with TMIA

NYSDOT WORK ZONE TRAFFIC CONTROL

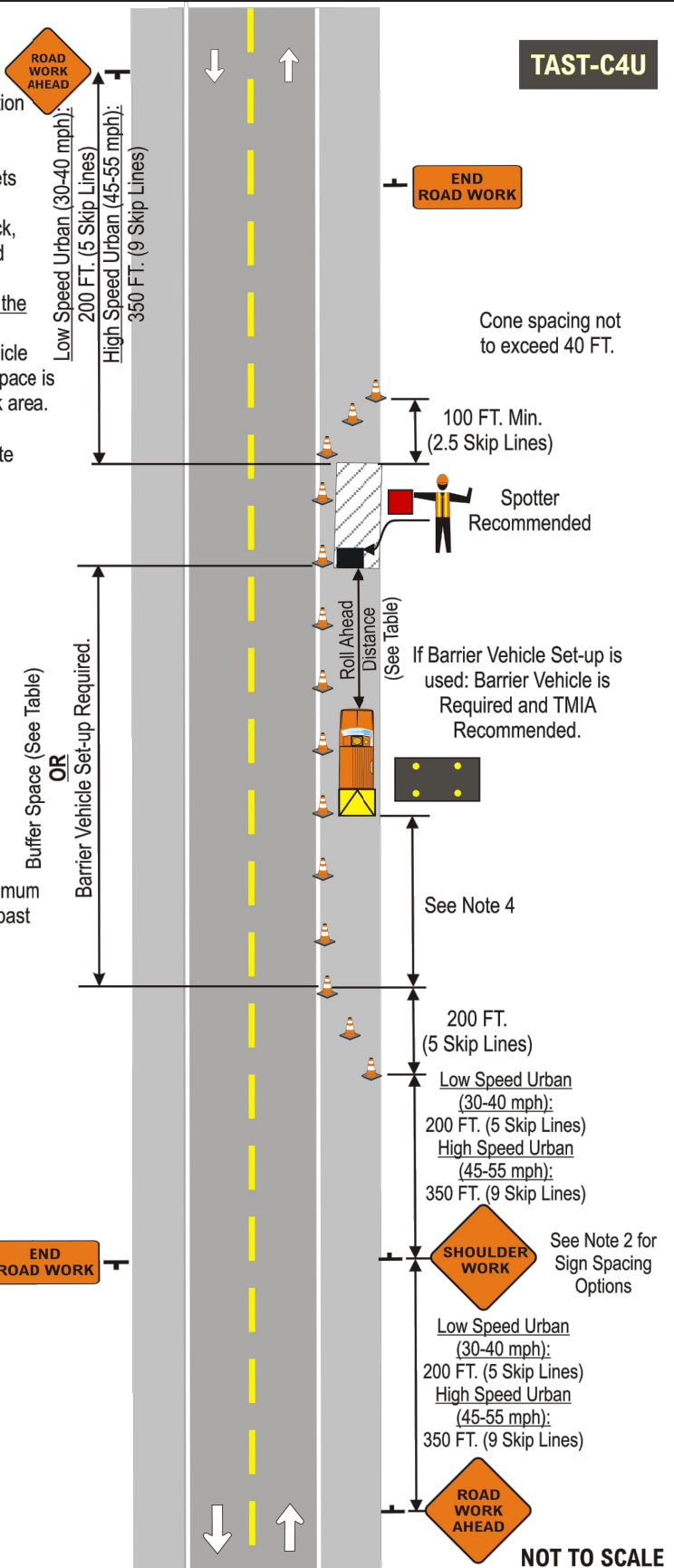
SHORT-TERM STATIONARY OPERATION INVOLVING SHOULDER CLOSURE

(PAVED SHOULDER 8 FT. OR WIDER)

ON

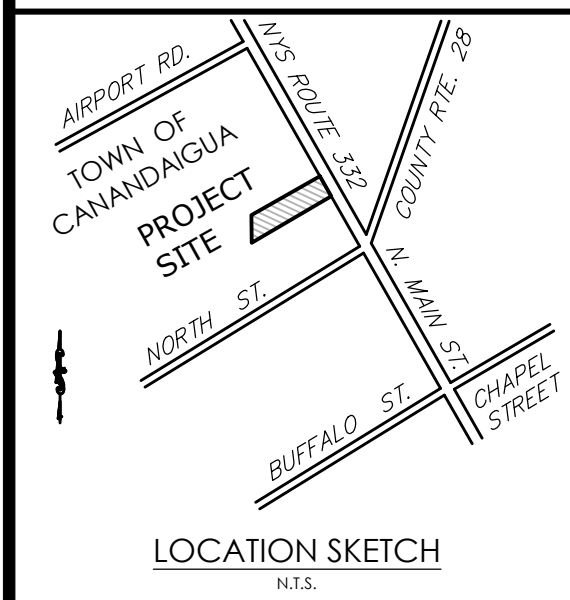
TWO-LANE CONVENTIONAL HIGHWAY

FEBRUARY 2009 TAST-C4U



PA

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Revisions

No.	Date	By	Description

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DETAILS

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C204

10

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Date

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NOT FOR CONSTRUCTION