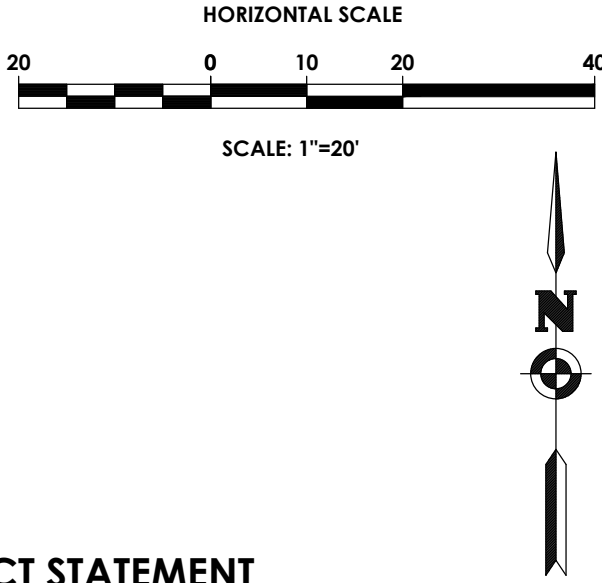


# SITE DEVELOPMENT PLANS FOR ROYAL CAR WASH

TOWN OF TONAWANDA, ERIE COUNTY, NEW YORK  
P.N. 20182696.0001

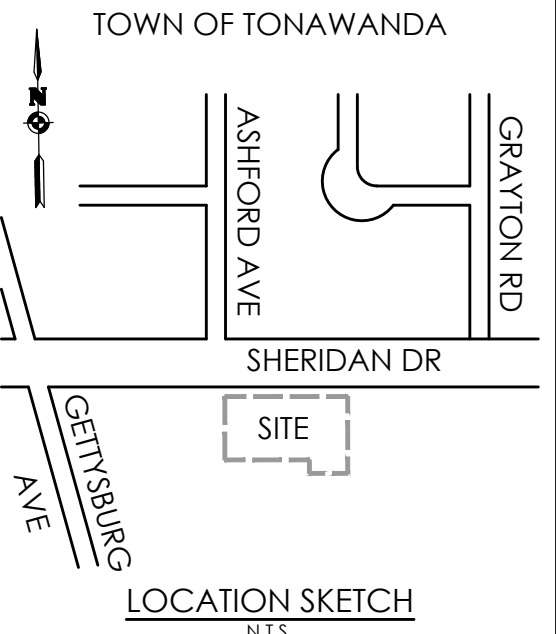
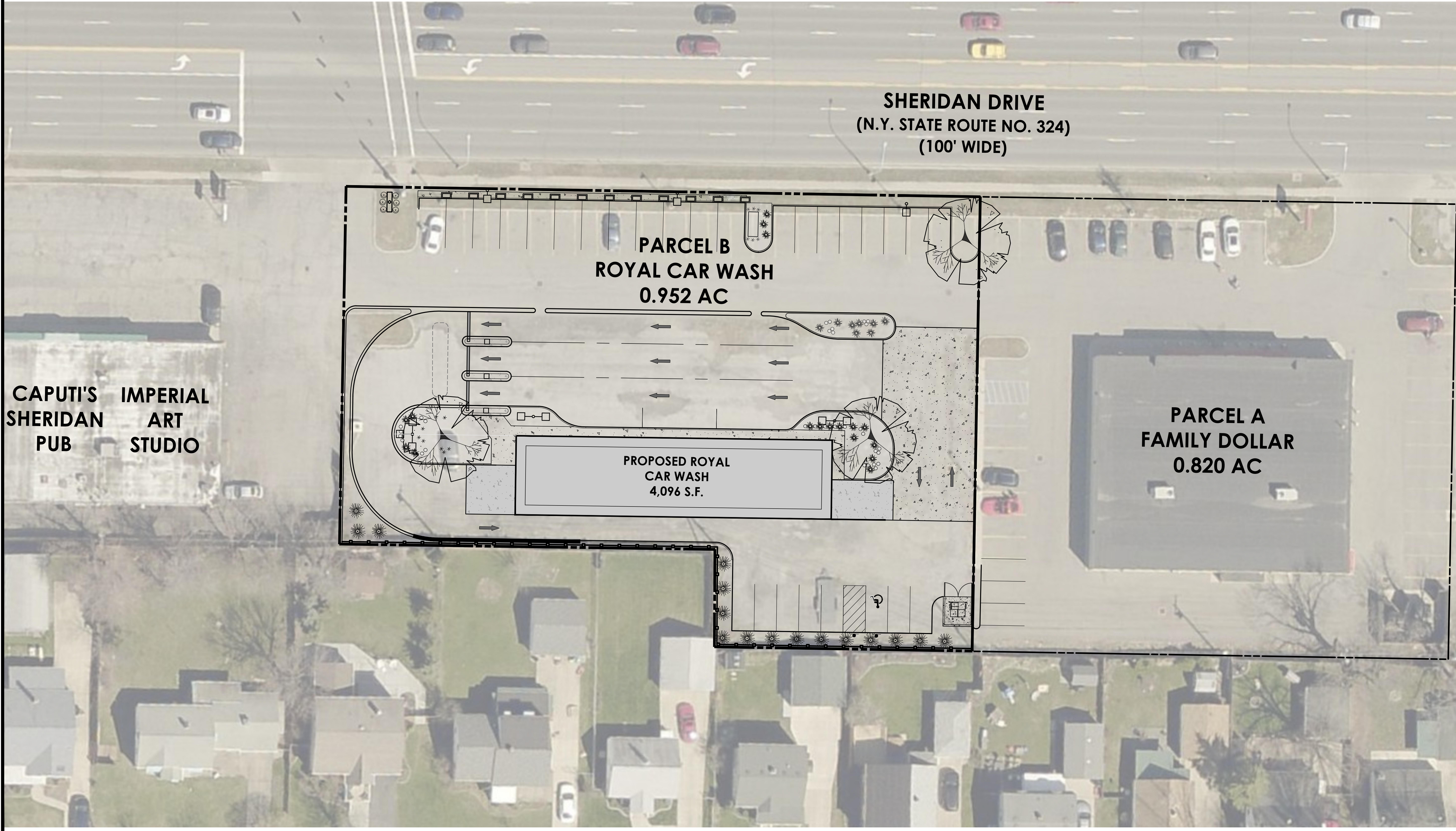


**NYS DOT DESIGNER CONTACT STATEMENT**  
PASSERO ASSOCIATES IS RESPONSIBLE FOR THE DESIGN OF THIS PROJECT. DAVID COX, P.E. IS THE DESIGNER AND IS FAMILIAR WITH NYS DOT STANDARDS AND REQUIREMENTS AND SHALL BE CONTACTED AT (585) 325-1000 TO RESOLVE ISSUES OR PROBLEMS DURING CONSTRUCTION. ALL REVISIONS,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



**DRAWING INDEX**

C 101	COVER
C 102	EXISTING CONDITIONS/ DEMOLITION PLAN
C 103	SITE PLAN
C 104	UTILITY PLAN
C 105	GRADING AND EROSION CONTROL PLAN
C 106	LANDSCAPING AND LIGHTING PLAN
C 201-204	DETAILS



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

**PASSERO ASSOCIATES**  
242 West Main Street Suite 100  
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

**COVER PLAN**

**ROYAL CAR WASH**

Town/City: Tonawanda  
County: Erie State: New York

Project No.: **20182696.0001**

Drawing No. <b>C 101</b>	Sheet No. <b>1</b>
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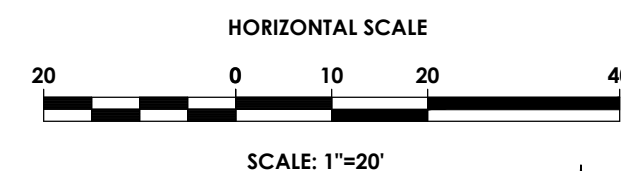
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Date: **FEBRUARY 2019**

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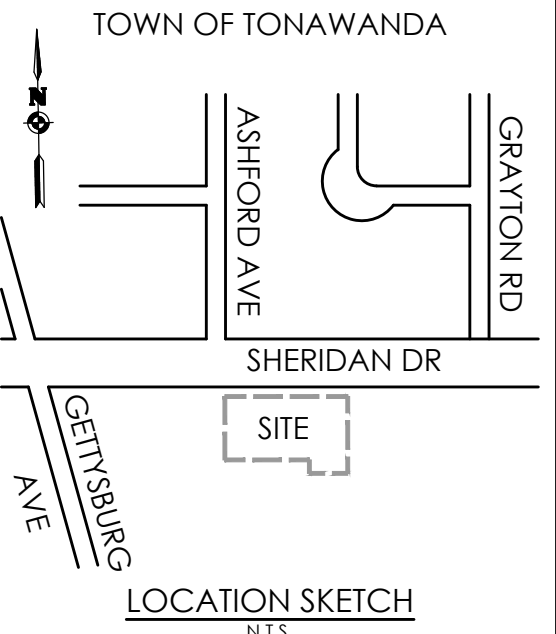
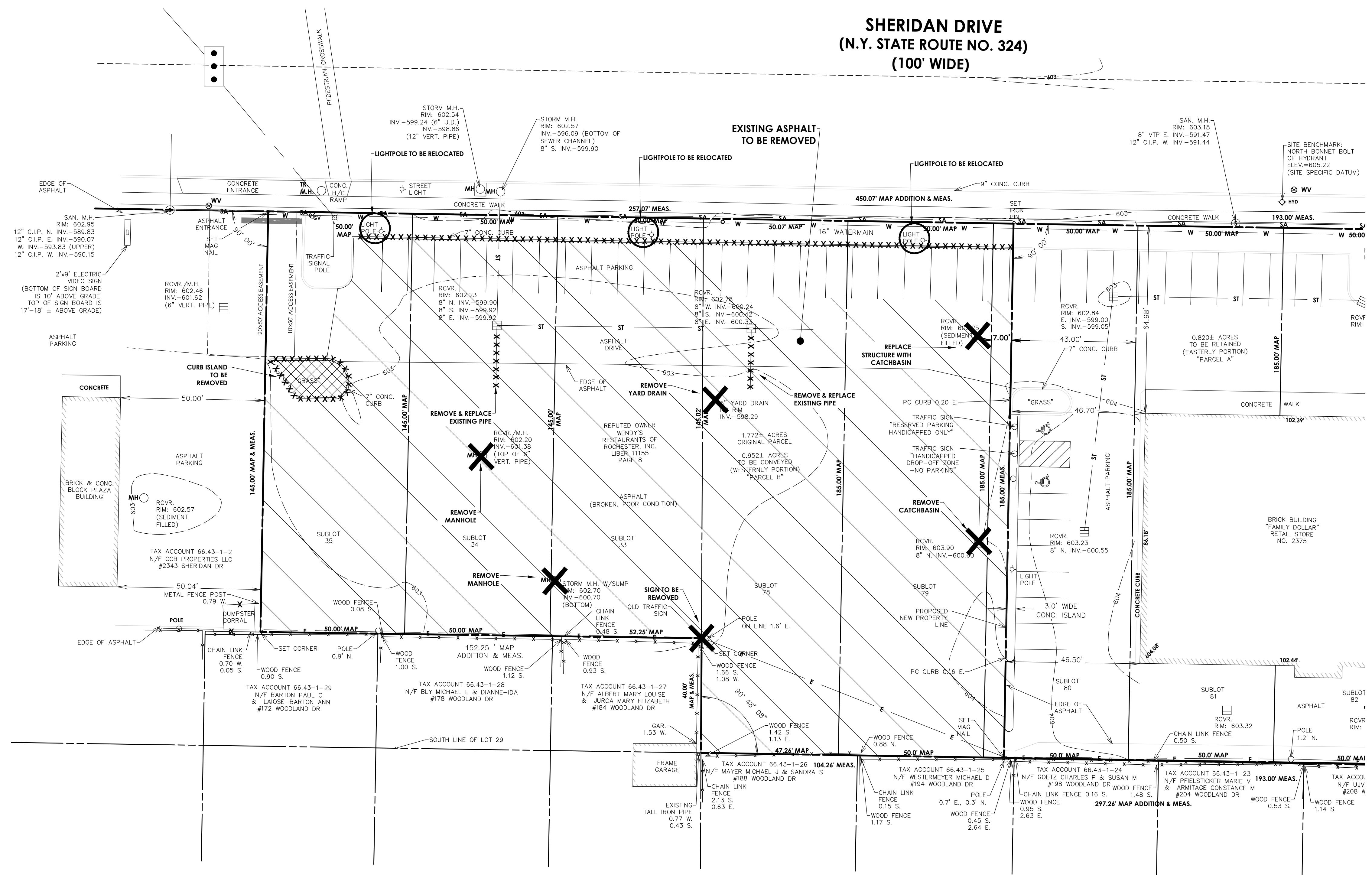


**LEGEND:**

- R.O.W.
- EXISTING CENTER LINE ROAD
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING EASEMENT LINE
- SETBACK
- 520 EXISTING MAJOR CONTOUR
- 521 EXISTING MINOR CONTOUR
- CB EXISTING STORM SEWER & MH
- HYD EXISTING WATER SERVICE & VALVE
- WV
- EXISTING SIGN
- MH EXISTING SANITARY SEWER AND MANHOLE
- PP EXISTING ELECTRIC LINE & POLE
- LP EXIST. LIGHT POLE
- MH EXIST. ELECTRIC MANHOLE
- HH EXIST. ELECTRIC HANDHOLE
- GV EXIST. GAS VALVE
- G EXIST. GAS MAIN
- W EXIST. WATER MAIN
- E EXIST. ELECTRIC LINE
- EXISTING FEATURE TO BE REMOVED
- EXISTING CONCRETE TO BE REMOVED
- EXISTING BUILDING TO BE REMOVED
- EXISTING ASPHALT TO BE REMOVED
- EXISTING FEATURE TO BE REMOVED



**SHERIDAN DRIVE  
(N.Y. STATE ROUTE NO. 324)  
(100' WIDE)**



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

**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 6" 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 HAILED 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 6" 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.
6. COORDINATE WITH UTILITY COMPANIES FOR SERVICE ABANDONMENT TO EXISTING BUILDING.

**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

**EXISTING CONDITIONS & DEMO PLAN**

**ROYAL CAR WASH**

Town/City: Tonawanda  
County: Erie State: New York

Project No.: **20182696.0001**

Drawing No.: **C 102** Sheet No.: **2**

Scale: **1" = 20'**

Date: **FEBRUARY 2019**

NOT FOR CONSTRUCTION

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IRON PIPE FOUND





**BUILDING MOUNTED SIGNAGE (x1)**  
FACING SHERIDAN DRIVE  
(48" - 80" x 192" = 77.3 SF)

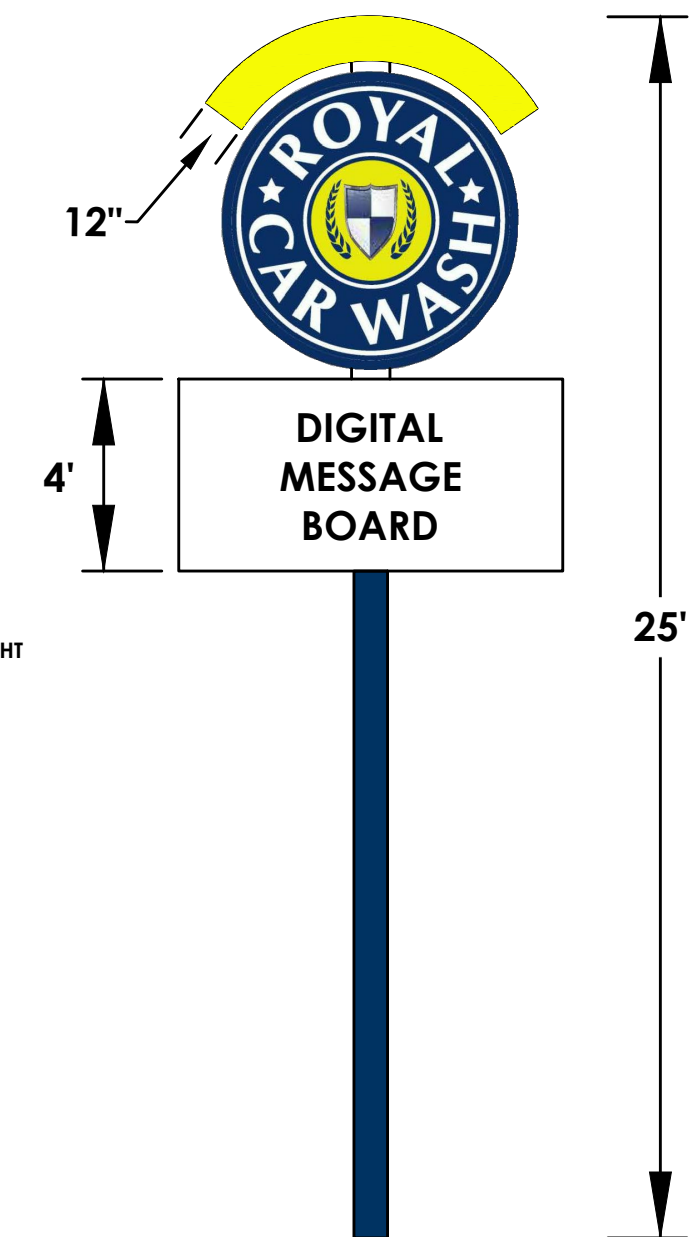
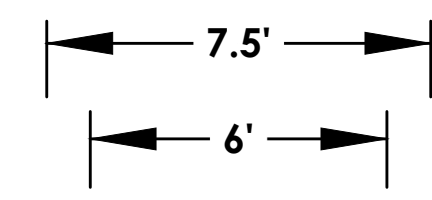
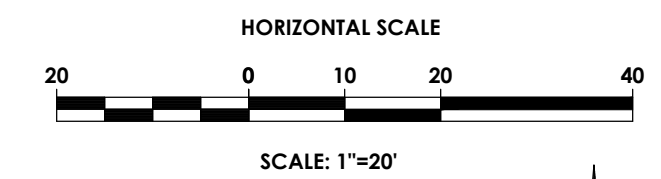


**BUILDING MOUNTED SIGNAGE (x2)**  
ABOVE TUNNEL ENTRANCE/EXIT  
(36" x 130" = 32.5 SF)

**SHERIDAN DRIVE**  
(N.Y. STATE ROUTE NO. 324)  
(100' WIDE)

**LEGEND:**

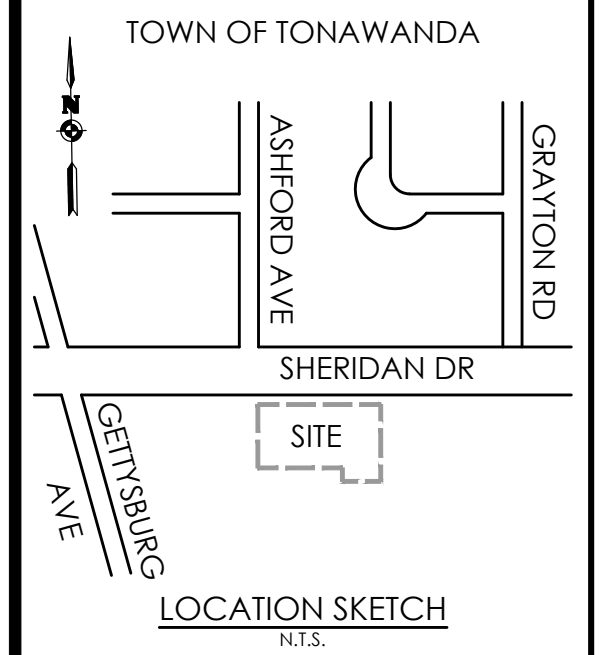
- PROPERTY BOUNDARY
- RIGHT OF WAY
- EXISTING CENTER LINE ROAD
- SETBACK
- PROPOSED EASEMENT LINE
- EXISTING EASEMENT LINE
- PROPOSED BUILDING
- PROPOSED PARKING COUNT
- PROPOSED CONCRETE
- PROPOSED ACCESS RAMP
- PROPOSED PAVEMENT STRIPING
- PROPOSED MOUNTABLE CURB
- PROPOSED STANDARD CURB
- PROPOSED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



**POLE MOUNTED SIGNAGE (x1)**  
SHERIDAN DRIVE  
(60 SF PER FACE)

**DRAWING INDEX**

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- C 103 SITE PLAN
- C 104 UTILITY PLAN
- C 105 GRADING AND EROSION CONTROL PLAN
- C 106 LANDSCAPING AND LIGHTING PLAN
- C 201-204 DETAILS



Client:  
**ROYAL WASH**  
**TONAWANDA, LLC**  
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**PASSERO ASSOCIATES**

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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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**SITE PLAN**

**ROYAL CAR WASH**

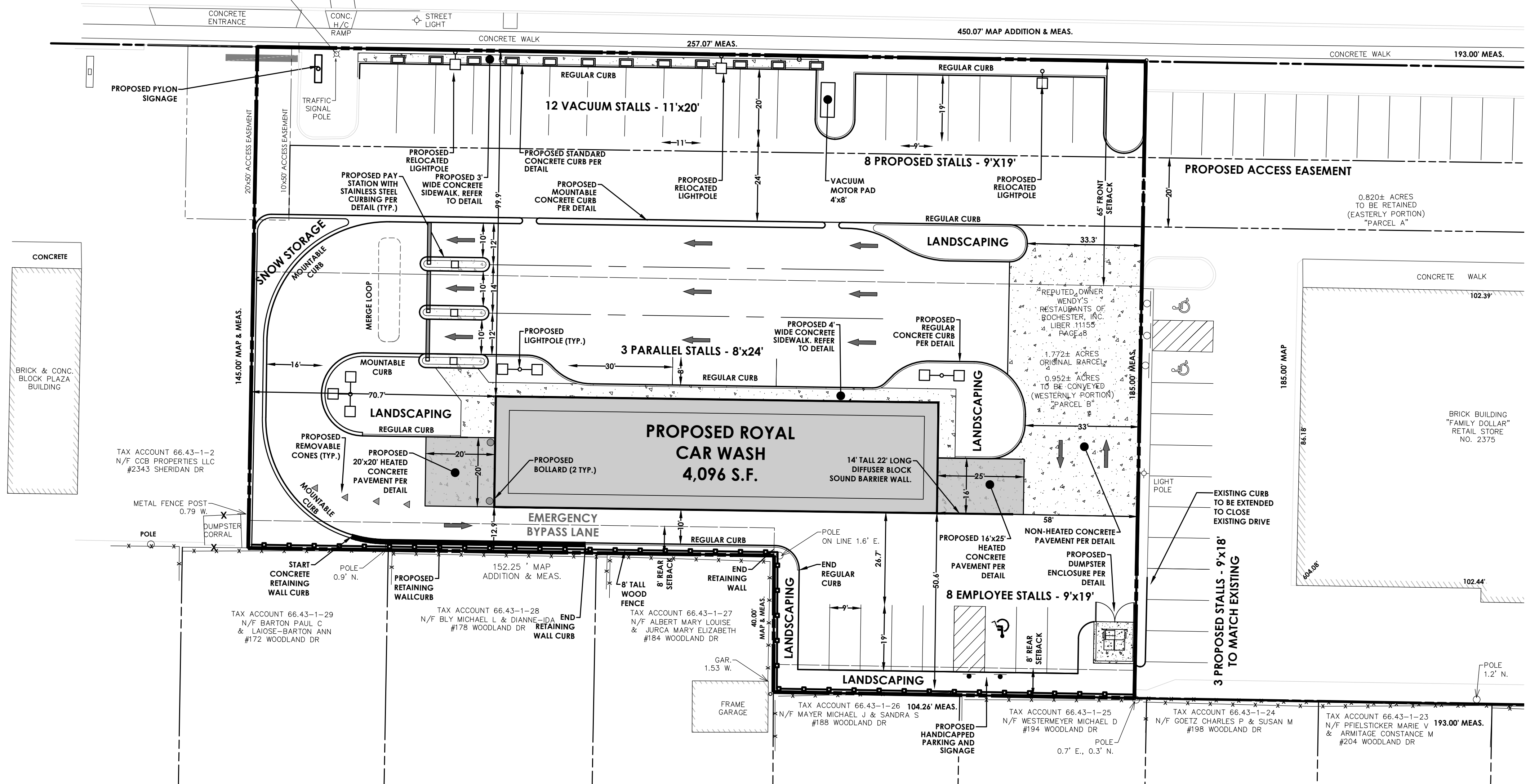
Town/City: Tonawanda  
County: Erie State: New York  
Project No.: **20182696.0001**  
Drawing No.: **C 103** Sheet No.: **3**  
Scale: **1" = 20'**  
Date: **FEBRUARY 2019**

**SITE DATA**

- TAX ACCOUNT NUMBER:
- PARCEL ADDRESS: 2375 SHERIDAN DRIVE, TONAWANDA, NY 14150
- TOTAL PARCEL AREA: 0.952 ACRES OR 41,469 S.F.  
TOTAL BUILDING AREA: 4,096 S.F.  
TOTAL DISTURBANCE AREA: 0.952 ACRES OR 41,469 S.F.  
TOTAL IMPERVIOUS AREA: 0.781 ACRES OR 34,042 S.F.  
GREEN SPACE: 0.171 ACRES OR 7,427 S.F. OR 18%
- ZONING: C - GENERAL BUSINESS
- EXISTING USE: VACANT  
PROPOSED USE: CAR WASH - SPECIAL USE PERMIT
- THERE ARE NO FEDERALLY REGULATED WETLANDS ON THIS PARCEL ACCORDING TO THE USACE FEDERAL WETLAND INVENTORY.
- THERE ARE NO STATE REGULATED WETLANDS ON THIS PARCEL ACCORDING TO NYSDEC WETLAND INVENTORY.
- PUBLIC WATER WILL BE PROVIDED BY THE ERIE COUNTY WATER AUTHORITY (ECWA).
- ELECTRIC SERVICE WILL BE SUPPLIED BY NYSEG.
- NATURAL GAS SERVICE WILL BE SUPPLIED BY NATIONAL FUEL.
- SANITARY SEWER SERVICE WILL BE PROVIDED BY THE TOWN OF TONAWANDA.
- STORM SEWER AND DRAINAGE FACILITIES WILL BE PRIVATELY OWNED.
- ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE CURRENT DEVELOPMENT STANDARDS AND SPECIFICATIONS OF THE TOWN OF TONAWANDA.

**ZONING ANALYSIS**  
(C - GENERAL BUSINESS DISTRICT)

	REQUIRED	PROPOSED
MINIMUM FRONT YARD SETBACK	65'	99'±
MINIMUM SIDE YARD SETBACK	N/A	58'±
REAR YARD SETBACK	8'	13'±
MINIMUM PARKING STALLS	4 SPACES PER BAY = 4 STALLS	31 STALLS
MINIMUM STALL SIZE	9' x 19'	9'x19'
MINIMUM STACKING REQUIREMENT	N/A	30+
MAX BUILDING HEIGHT	45'	35'
BUILDING WALL SIGN	3 SF/LF 300' MAX	142.3 SF
POLE SIGN MAX SF	60 SF PER FACE	60 SF PER FACE
POLE SIGN MAX HEIGHT	30'	25'



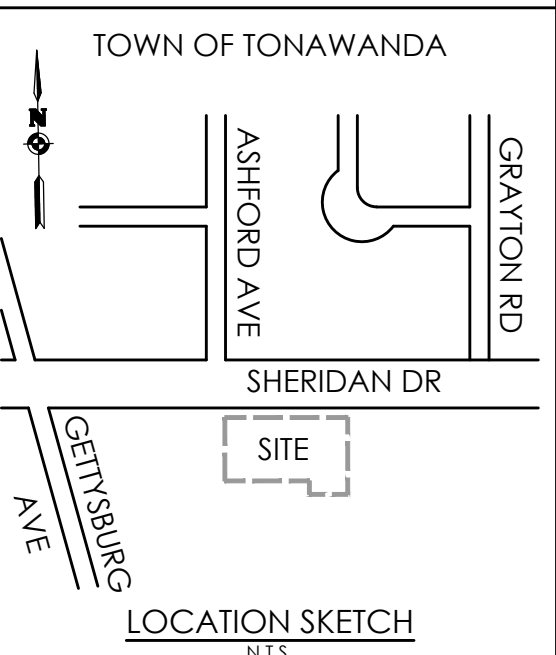




PASSERO ASSOCIATES  
engineering architecture

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- C 103 SITE PLAN
- C 104 UTILITY PLAN
- C 105 GRADING AND EROSION CONTROL PLAN
- C 106 LANDSCAPING AND LIGHTING PLAN
- C 201-204 DETAILS



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

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 Fax: (585) 325-1691

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 Designed by: Jon Daniels



Revisions			
No.	Date	By	Description

UTILITY PLAN

ROYAL CAR WASH

Town/City: Tonawanda  
 County: Erie State: New York

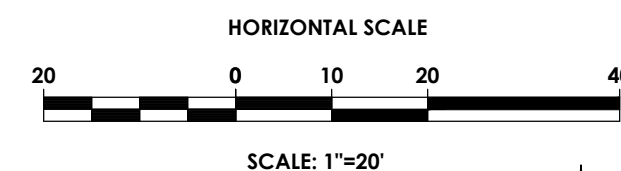
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Drawing No.: **C 104** Sheet No.: **4**

Scale: **1" = 20'**

Date: **FEBRUARY 2019**

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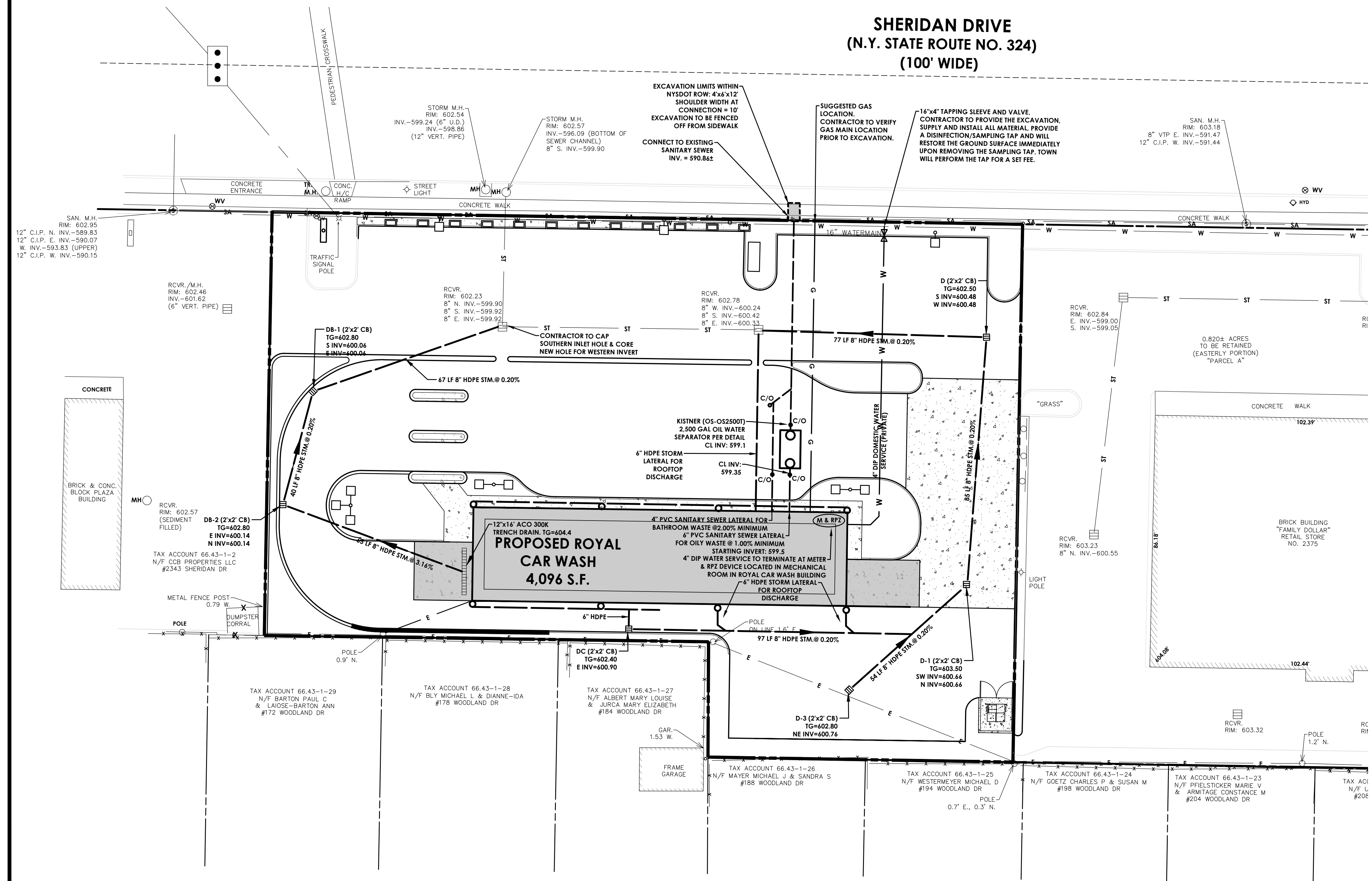


LEGEND:

- 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
- 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

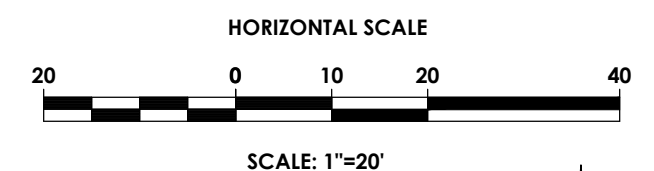
SEE C201 FOR UTILITY NOTES

**SHERIDAN DRIVE**  
 (N.Y. STATE ROUTE NO. 324)  
 (100' WIDE)



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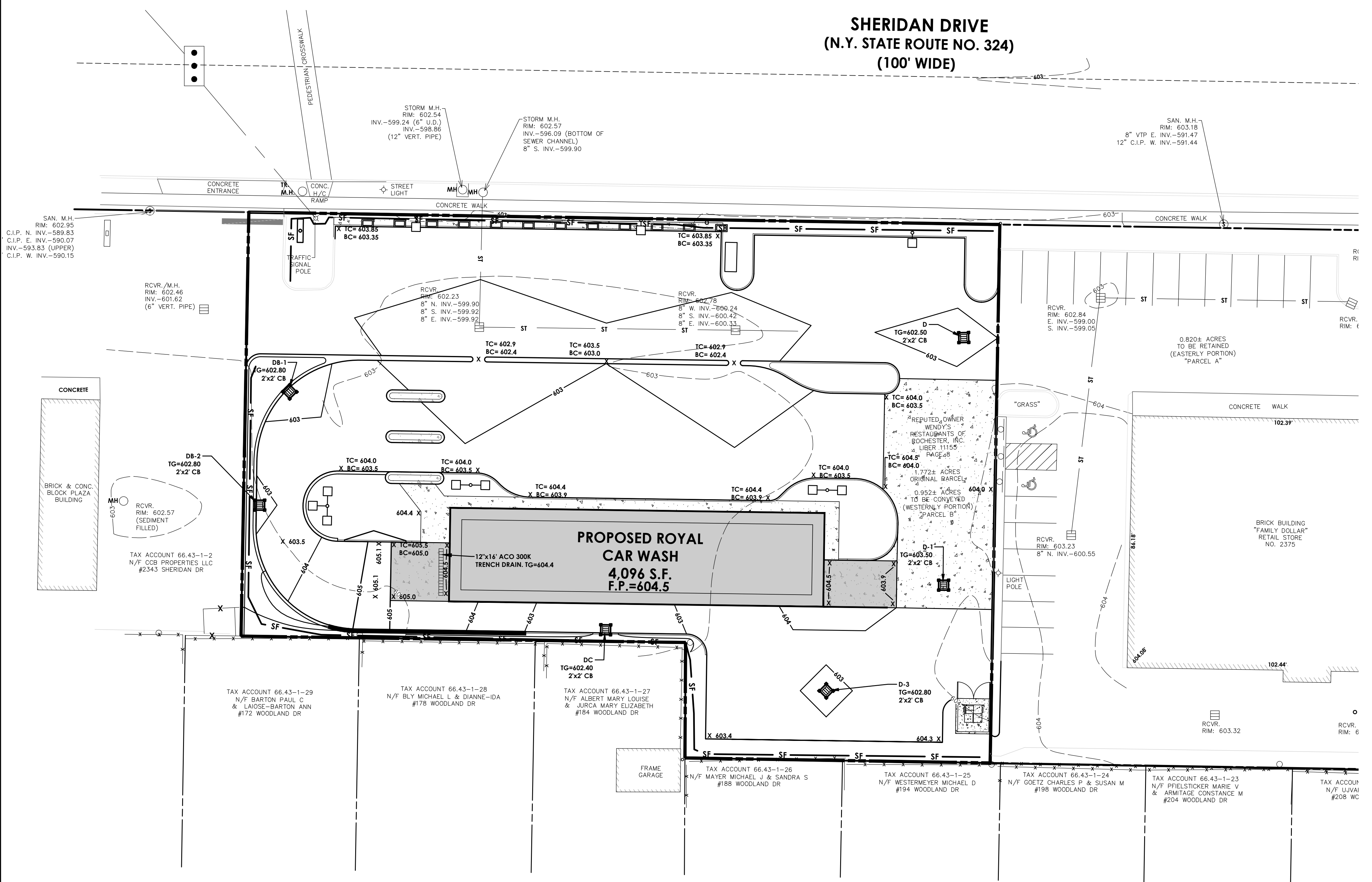




**LEGEND:**

- 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
- 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
- SILT FENCE

**SHERIDAN DRIVE  
(N.Y. STATE ROUTE NO. 324)  
(100' WIDE)**

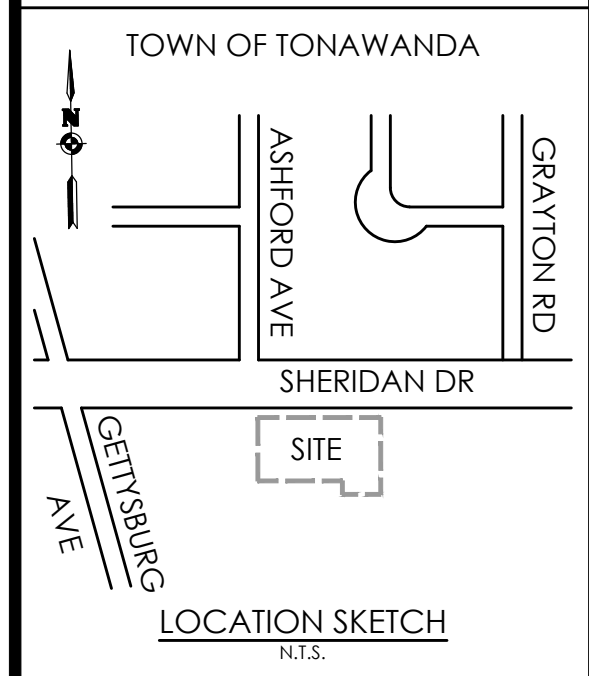


**SEE C201 FOR  
GRADING  
NOTES**



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- C 103 SITE PLAN
- C 104 UTILITY PLAN
- C 105 GRADING AND EROSION  
CONTROL PLAN
- C 106 LANDSCAPING AND  
LIGHTING PLAN
- C 201-204 DETAILS



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

**PASSERO ASSOCIATES**  
242 West Main Street Suite 100  
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

**GRADING PLAN**

**ROYAL CAR WASH**

Town/City: Tonawanda  
County: Erie State: New York

Project No.  
**20182696.0001**

Drawing No. **C 105** Sheet No. **5**

Scale: **1" = 20'**

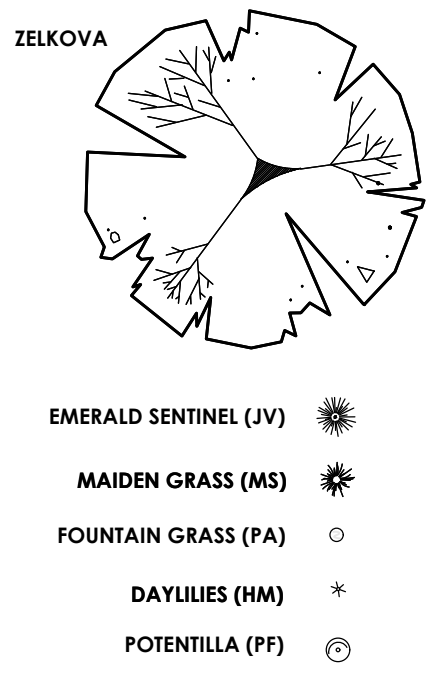
Date  
**FEBRUARY 2019**

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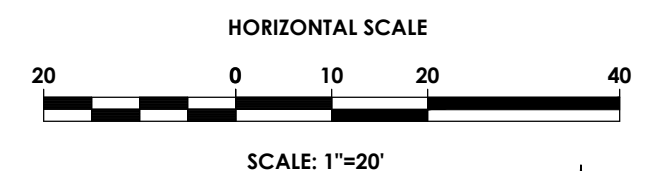


PLANT SYMBOLS

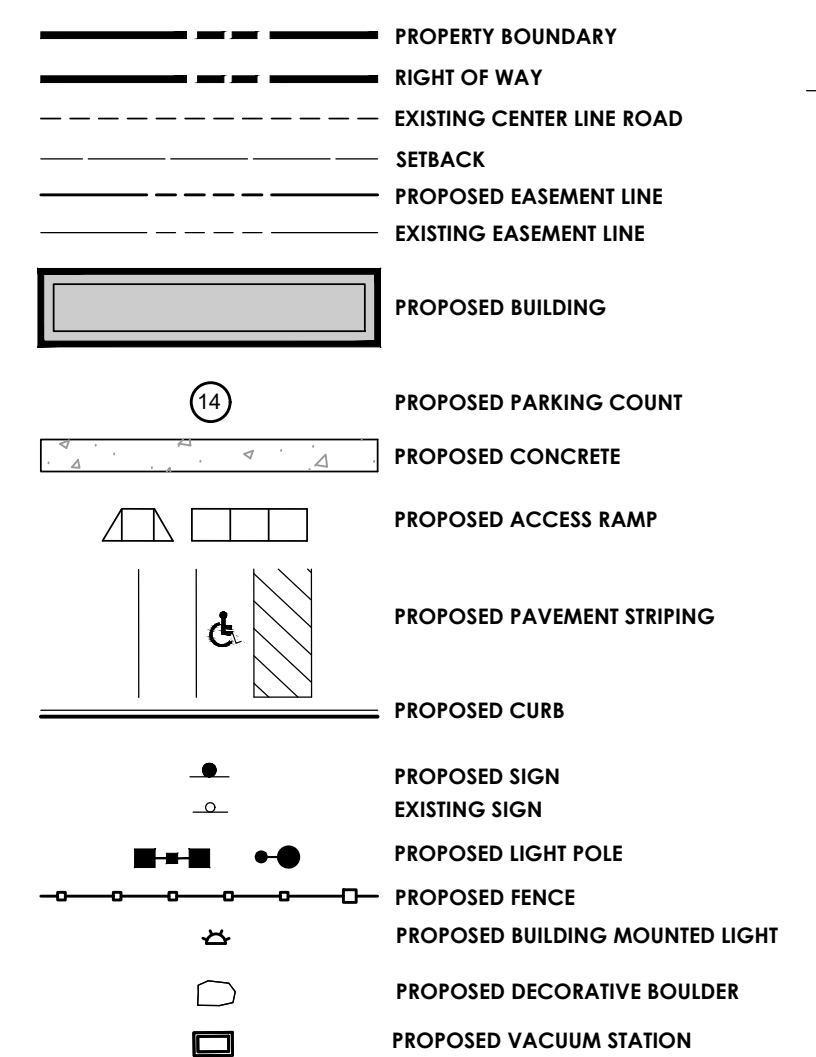


KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE	MATURE HEIGHT	SPACING	COMMENTS
<b>DECIDUOUS TREES</b>							
ZS	3	ZELKOVA	ZELKOVA SERRATA 'GREEN VASE'	2-2 1/2' CAL. B&B	40-80'	AS SHOWN	40-50' SP
<b>EVERGREEN TREES</b>							
JV	16	SENTINEL EASTERN RED CEDAR	JUNIPERUS VIRGINIANA 'EMERALD SENTINEL'	5-6' B&B	15-20'	AS SHOWN	4-6' SP O.C.
<b>GRASSES AND PERENNIALS</b>							
HM	14	DAYLILIES	HEMEROCALLIS 'STELLA DE ORO'	NO. 2 CONT.	12"	AS SHOWN	12" SP.
MS	25	MAIDEN GRASS	MISCANTHUS SINENSIS 'ADAGIO'	NO. 2 CONT.	3-4'	AS SHOWN	3-4' SP.
FA	32	FOUNTAIN GRASS	PENNISETUM ALOPECUROIDES 'HAEMEL'	NO. 3 CONT.	1.5-2.5'	AS SHOWN	1.5-2.5'
<b>SHRUBS</b>							
PF	6	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 1/2" TOLERANCE. MATERIAL SHALL BE FREE OF ORGANIC AND INORGANIC DEBRIS AND TRASH.

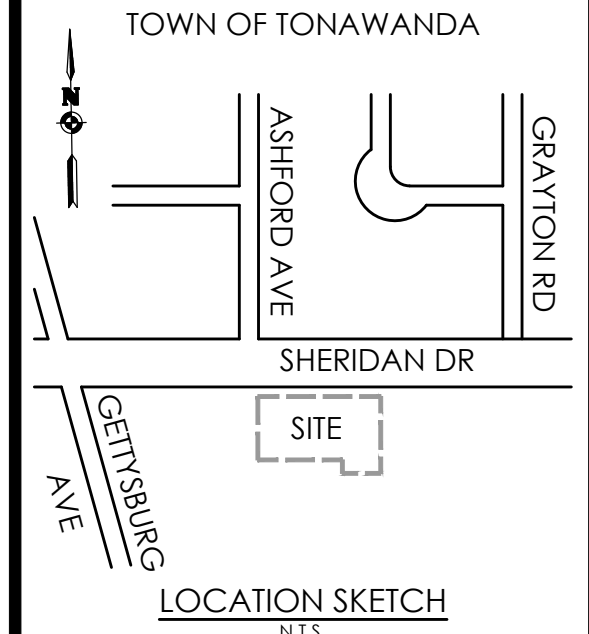


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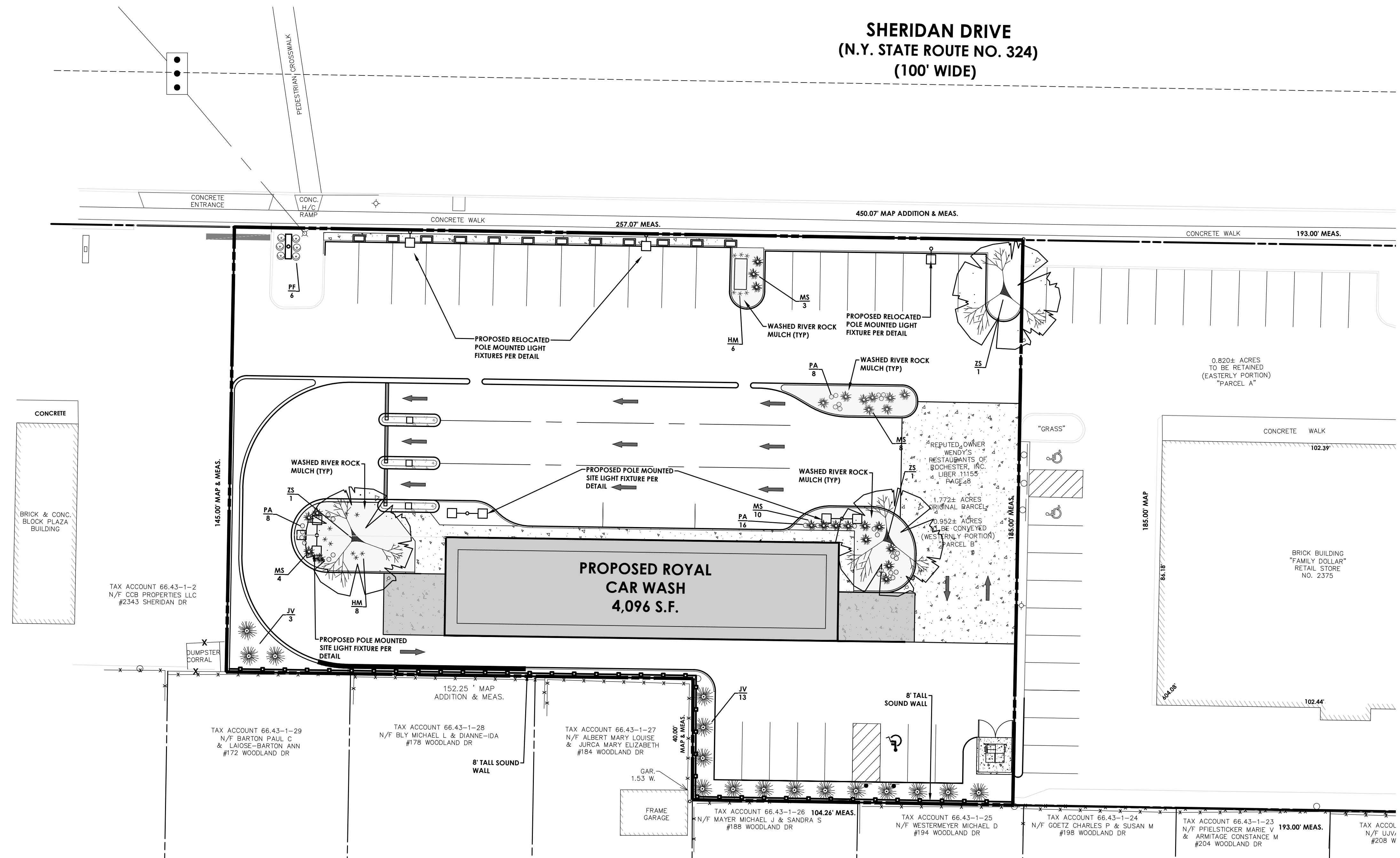
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- C 103 SITE PLAN
- C 104 UTILITY PLAN
- C 105 GRADING AND EROSION CONTROL PLAN
- C 106 LANDSCAPING AND LIGHTING PLAN
- C 201-204 DETAILS



SEE C201 FOR LANDSCAPING NOTES

SHERIDAN DRIVE  
(N.Y. STATE ROUTE NO. 324)  
(100' WIDE)



Client:  
ROYAL WASH  
TONAWANDA, LLC  
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PASSERO ASSOCIATES  
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Designed by: Jon Daniels



Revisions			
No.	Date	By	Description

LANDSCAPING & LIGHTING PLAN

ROYAL CAR WASH

Town/City: Tonawanda  
County: Erie State: New York  
Project No.: 20182696.0001  
Drawing No.: C 106 Sheet No.: 6  
Scale: 1" = 20'  
Date: FEBRUARY 2019

NOT FOR CONSTRUCTION

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**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 ABOVE. 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 ON-SITE REPRESENTATIVE OR A TOWN REPRESENTATIVE, SHALL BE INITIATED WITHIN 24 HOURS OF BEING REPORTED. THE TOWN MAY REQUEST 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.

**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 TOWN OF TONAWANDA.
2. WATER SERVICE WILL BE INSTALLED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ERIE COUNTY WATER AUTHORITY.
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.
9. THIS SUBDIVISION SHALL COMPLY WITH ANY COUNTY OR STATE AGENCIES HAVING JURISDICTION.
10. ALL SITE WORK TO BE IN COMPLIANCE WITH THE STANDARDS OF THE TOWN OF TONAWANDA.
11. ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH THE DESIGN CRITERIA AND CONSTRUCTION SPECIFICATIONS FOR LAND DEVELOPMENT FOR THE TOWN OF TONAWANDA DATED THE MOST CURRENT REVISION.
12. THIS PROJECT WILL BE IN ACCORDANCE WITH THE TOWN OF TONAWANDA HIGHWAY FRONTAGE POLICY.

**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 (LATEST REVISION). FOLLOWING DISINFECTION, THE WATER MAIN PIPELINE SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM. 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. THE NYS DEPARTMENT OF PUBLIC HEALTH MUST RECEIVE AT LEAST 48-HOUR ADVANCE NOTIFICATION REQUESTING SAMPLING SERVICES. SAMPLING WILL NOT BE PERFORMED PRIOR TO RECEIPT FROM A NEW YORK STATE LICENSED OR REGISTERED DESIGN PROFESSIONAL (ENGINEER, ARCHITECT OR LAND SURVEYOR) WITH A SPECIAL EXEMPTION UNDER SECTION 7208(6) 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. THE DEPARTMENT WILL COLLECT SAMPLES FOR FREE CHLORINE RESIDUAL, TOTAL COLIFORM, ESCHERICHIA COLI (E. COLI) AND TURBIDITY. THE WATER MAIN PIPE AND APPURTENANCES SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE ERIE COUNTY DEPARTMENT OF HEALTH.
2. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAIN PIPELINES AND SEWER PIPELINES 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 PIPELINE AND APPURTENANCES SHALL BE PRESSURE/LEAKAGE TESTED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE AWWA STANDARD C600 (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 NYS&G AND NATIONAL FUEL 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 UTILITY DESIGN AND INSTALLATION GUIDELINES.
3. ELECTRIC AND PLUMBING CONTRACTORS SHALL DIRECTLY COORDINATE WITH EACH OTHER AND DIRECTLY WITH NYS&G AND NATIONAL FUEL 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 SEEDED 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 SEEDED 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 NYS&G. 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 ON-SITE 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 WITH THIS PLAN SET WITH APPROPRIATE AGENCIES. 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 ON-SITE 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 PUMPS. 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 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 6" 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 1/2" 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. INITIAL 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 TOWN OF TONAWANDA.
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 ERIE 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. NOTE: ALL DISCHARGES TO THE SANITARY/COMBINATION SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND OR ERIE COUNTY SEWER USE LAW.

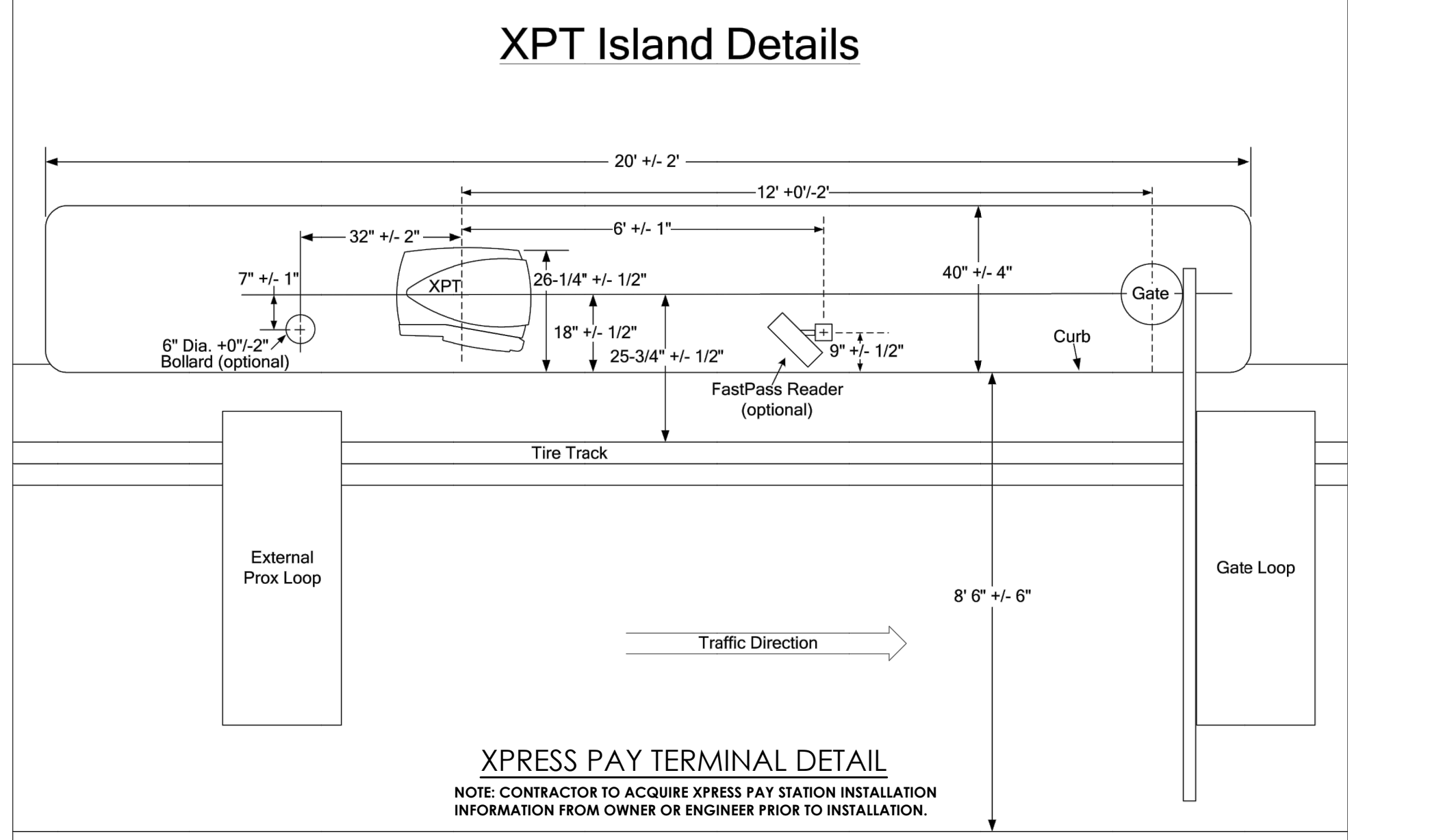
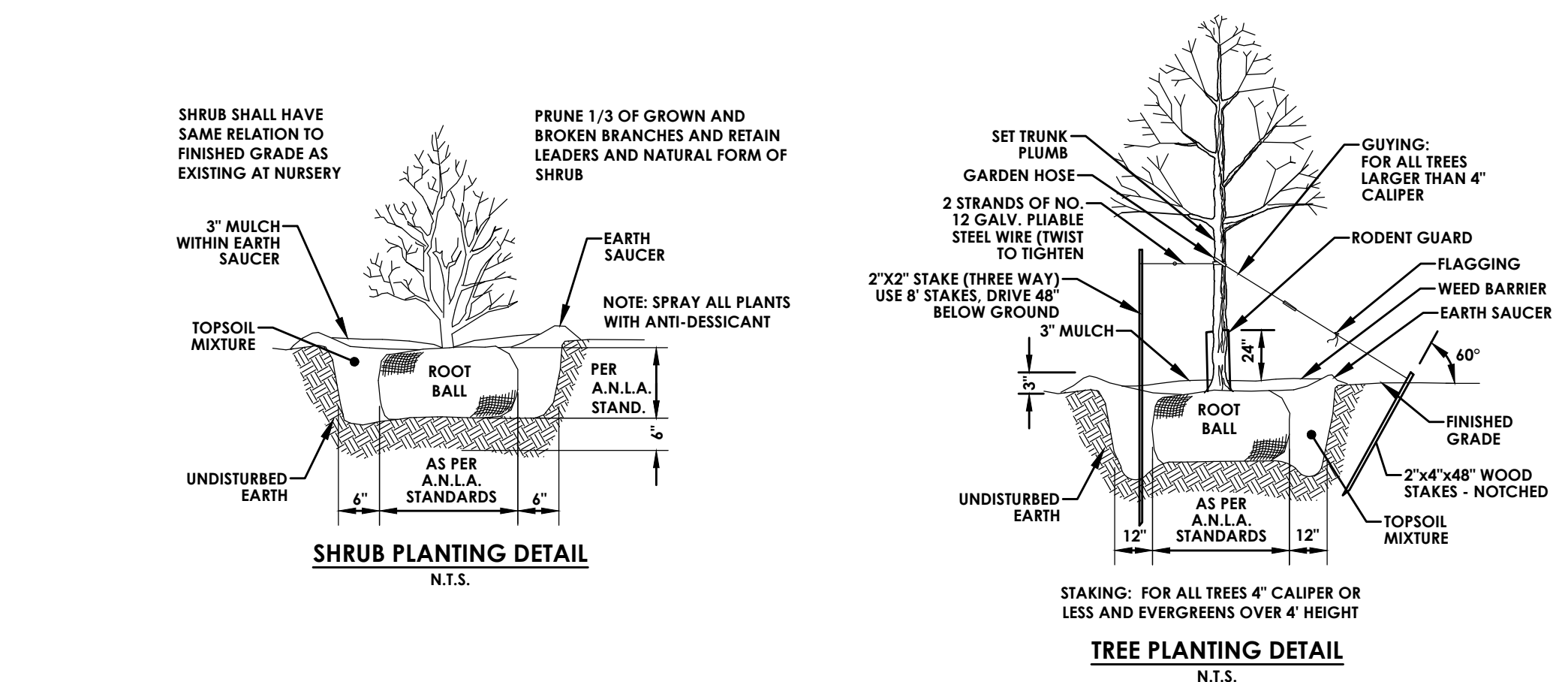
**SEWER USE LAW:**

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 CONTRACTOR SHALL COMPLY WITH THE TOWN OF TONAWANDA DRAWINGS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER AND THE ECWA ENG. DEPT. OF ANY HAZARDOUS SUBSTANCE ENCOUNTERED DURING THE CONSTRUCTION OF THE WORK. HE SHALL AT HIS EXPENSE, CONFORM TO ALL LAWS, RULES, REGULATIONS AND DIRECTIONS AS PROMULGATED BY THE UNITED STATES DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, THE NEW YORK STATE DEPARTMENT OF HEALTH AND ANY SUCH LOCAL RULES, ORDINANCES AND LAWS WHEN ENCOUNTERING OR WORKING WITH ANY SUCH SUBSTANCE.
3. THE CONTRACTOR SHALL COMPLY IN ALL RESPECTS TO THE INDUSTRIAL CODE PART (RULE NO.) 53 RELATING TO CONSTRUCTION, EXCAVATION AND DEMOLITION OPERATIONS AT OR NEAR UNDERGROUND FACILITIES, AS ISSUED BY THE STATE OF NEW YORK DEPARTMENT OF LABOR, BOARD OF STANDARD AND APPEALS.
4. SINCE THE TOWN OF TONAWANDA OPERATES AND MAINTAINS THE EXISTING WATER LINES, THEY ARE TO BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION. ALL EXISTING VALVES ARE TO BE OPERATED BY THE TOWN OF TONAWANDA PERSONNEL.
5. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AHEAD OF THE PIPE LAYING OPERATION, SO THAT, IF MINOR ADJUSTMENTS MUST BE MADE IN ELEVATION AND/OR ALIGNMENT DUE TO INTERFERENCE FROM THESE UTILITIES, SAID CHANGES CAN BE MADE IN ADVANCE OF THE WORK.
6. WHERE SUCH FACILITIES ARE UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER, HE SHALL CERTIFY TO THE ERIE COUNTY WATER AUTHORITY THAT SAID FACILITIES AS CONSTRUCTED WERE SUPERVISED BY HIMSELF (HERSELF) AND THAT THE WORKS HAVE BEEN FULLY COMPLETED IN ACCORDANCE WITH THE APPROVED ENGINEERING REPORTS, PLANS, SPECIFICATIONS, CONTRACT DOCUMENTS AND ANY AND ALL ADDENDA TO SAME.
7. THE CONSTRUCTION OF THE FACILITIES SHALL BE UNDER THE SUPERVISION OF A PERSON OR FIRM QUALIFIED TO PRACTICE PROFESSIONAL ENGINEERING IN NEW YORK STATE UNDER THE EDUCATION LAW OF THE STATE, WHENEVER ENGINEERING SERVICES ARE REQUIRED BY SUCH LAW FOR SUCH PURPOSES.
8. A WRITTEN CERTIFICATE OF CONSTRUCTION COMPLIANCE, INCLUDING THE RESULTS OF HYDROSTATIC LEAKAGE TESTS, MADE BY THE PROFESSIONAL ENGINEER SUPERVISING THE CONSTRUCTION, SHALL BE SUBMITTED TO THE ERIE COUNTY DEPT. OF ENVIRONMENT PLANNING AND NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION WITHIN THIRTY (30) DAYS AFTER CONSTRUCTION COMPLETION.
9. UNSUITABLE MATERIALS SUCH AS FROZEN ORGANIC AND/OR VEGETABLE MATERIAL, DEBRIS, TREES, LIMBER, LARGE STONES OR CLOUDS (6" OR LARGER), MUCK, PEAT, ORGANIC SILT WILL NOT BE ACCEPTABLE FILL AND CERTAIN MADE DEPOSITS OF INDUSTRIAL WASTE, SLUDGE OR LANDFILL MAY ALSO BE DETERMINED AS UNSUITABLE HAZARDOUS MATERIAL.
10. THE COMPACTION OF ALL MATERIALS WILL OCCUR AT 4" INCREMENTS.
11. VERIFICATION OF EXISTING EASEMENTS IS THE RESPONSIBILITY OF THE DESIGN ENGINEER AND THEY MUST BE SHOWN ALONG WITH ALL PROPOSED EASEMENTS ON PLAN DRAWINGS.
12. SHOULD A FLUID CONDITION BE ENCOUNTERED AT THE TRENCH BOTTOM, THE CONTRACTOR IS TO INSTALL ADDITIONAL STONE CRADLE AS ORDERED BY THE ENGINEER.
13. ALL PIPE CROSSINGS UNDER PAVED AREAS ARE TO BE BACKFILLED TO SUBGRADE WITH COMPACTED SELECT MATERIAL TO FIVE (5) FEET OUTSIDE THE PAVEMENT EDGES.
14. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED TREE EXPERT TO REMOVE, WHERE NECESSARY, BRANCHES WHICH INTERFERE WITH THE CONSTRUCTION OPERATION, OR REPAIR TREES HAVING SUFFERED DAMAGE BY CONSTRUCTION ACTIVITIES. THE COST INVOLVED IN THE ABOVE IS TO BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.
15. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C 151 (ANSI A21.51)-81AND SHALL BE CLASS 52 INSTALLED IN ACCORDANCE WITH AWWA C600-82 AND WRAPPED IN POLYETHYLENE, AWWA C-105 POLYWRAP.
16. POLYVINYL CHLORIDE (PVC) SHALL BE DR 18 (CLASS 150) AND CONFORM TO AWWA C-900-81 AND ASTM D-2241, AND SHALL HAVE INTEGRAL BELL JOINTS.
17. PVC PRESSURE LINES SHALL HAVE A MAGNETIC MARKER LAID DIRECTLY ABOVE THE FULL LENGTH OF PIPE APPROXIMATELY 18" BELOW GROUND SURFACE. TAPE TO BE THREE (3) INCHES WIDE, ALARMATAPE - PAUL DOTTER WRAPPING TAPES, INC. OR EQUAL.

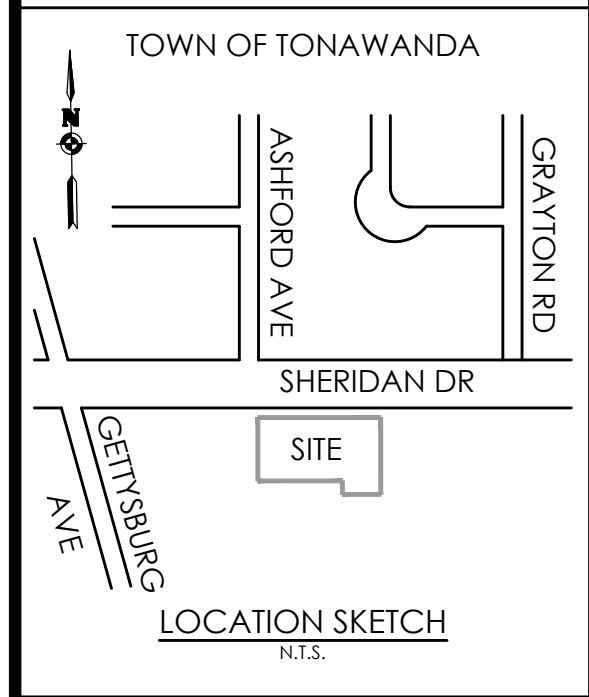


18. FITTINGS SHALL CONFORM TO AWWA C-110-77 FOR GRAY AND DUCTILE IRON FITTERS OR BE SHORT BOLT DUCTILE IRON FITTINGS IN ACCORDANCE WITH AWWA C-153-84 (ANSI 21.53). JOINTS SHALL CONFORM TO AWWA C-111-77. VALVES SHALL BE EITHER GATE VALVES IN ACCORDANCE WITH AWWA C-500-80 OR BUTTERFLY VALVES IN ACCORDANCE WITH AWWA C-504-80.
19. HYDRANTS SHALL CONFORM TO AWWA C-502-85 STANDARD FOR DRY BARRELL FIRE HYDRANTS.
20. PIPING SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH AWWAC-600-82 FOR DUCTILE IRON WATERMAINS OR AWWA C-900 FOR PVC PIPE WITH INSTALLATION AND TESTING AS PER AWWA MANUAL M-23.
21. DISINFECTION, FLUSHING, AND BACTERIOLOGICAL TESTING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA SPECIFICATION C-601-81 (EXCEPTING SECTION 51).
22. THE ERIE COUNTY WATER AUTHORITY SHALL OPERATE ALL VALVES OF EXISTING SYSTEMS AND SHALL OPEN NEW VALVES TO NEWLY CONSTRUCTED WATERMAINS.
23. ONLY ONE CONNECTION MAY BE MADE TO ANY EXISTING WATERMAIN PRIOR TO DISINFECTION AND HEALTH DEPARTMENT APPROVAL OF COMPLETED WORKS. AFTER APPROVAL, REMAINING CONNECTIONS MAY BE MADE.
24. CORPORATION STOPS SHALL HAVE THREADS CONFORMING TO AWWA C-800-66. CORPORATION STOPS AND CURB STOPS SHALL CONFORM TO ASTM B-62-62. COPPER TUBING SHALL BE TYPE "K" AND CONFORM TO ASTM B-88-62 AND SHALL HAVE IRON PIPE THREADS COMPATIBLE TO THE PLUG AND CURB STOP.
25. BACTERIOLOGICAL SAMPLES SHALL BE TAKEN FROM SAMPLING POINTS LOCATED AT APPROXIMATELY 1,000 FOOT INTERVALS (MAXIMUM) AND AT THE END OF EACH SECTION.
26. POLYETHYLENE TUBE ENCASUREMENT FOR DUCTILE IRON PIPE ONLY.
27. POLYETHYLENE ENCASUREMENT SHALL CONFORM WITH THE APPLICABLE REQUIREMENTS OF THE AMERICAN NATIONAL STANDARD FOR POLYETHYLENE ENCASUREMENT FOR GRAY AND DUCTILE CAST IRON PIPING FOR WATER AND OTHER LIQUIDS, ANSI-21.5-1972, AWWA C-105-72.
28. THE POLYETHYLENE MATERIAL SHALL MEET THE FOLLOWING STANDARDS:  
A. THICKNESS: 8 MILS. (MINIMUM), CLASS "C".  
B. 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% DISPERSED CARBON BLACK WITH STABILIZERS WHERE EXPOSURE TO ULTRAVIOLET LIGHT (SUNLIGHT) MAY BE PROLONGED (2-10 DAYS).  
C. QUALITY: THE POLYETHYLENE MATERIAL SHALL BE OF VIRGIN POLYETHYLENE MATERIAL PRODUCED FROM DUPONT ALATHON RESIN OR USE P PETROTHENE RESINS OR EQUIVALENTS.
29. POLYETHYLENE MATERIAL SHALL BE IN THE EXTRUDED TUBE FORM IN EITHER PRECUT, INDIVIDUALLY PREPARED, SPECIFIED LENGTH (SUCH AS 20 FEET) OR IN UN CUT, CONTINUOUS LENGTHS FOLDED OR ROLLED IN CONVENIENTLY SIZED PACKAGES.
30. A LISTING OF THE MINIMUM FLATTENED POLYETHYLENE TUBE WIDTHS FOR USE WITH SPECIFIC PIPE SIZED AND JOINT TYPES ARE AS FOLLOWS:  
NOMINAL PIPE PUSH-ON JOINT MECHANICAL JOINT SIZES FLAT TUBE WIDTH FLAT TUBE WIDTH  
4" 14" 16"  
6" 17" 20"  
8" 21" 24"  
12" 29" 30"  
16" 37" 37"  
24" 53" 53"
31. IN ADDITION TO THE POLYETHYLENE MATERIAL, THE PLASTIC ADHESIVE TAPE WILL BE REQUIRED TO COMPLETE THE INSTALLATION. THE TAPE SHALL BE APPROXIMATELY 2" WIDE, PLASTIC BACKED ADHESIVE TAPE SUCH AS POLIKEN NO. 900 OR SCOTCHWRAP NO. 50. ALL CLAMPING NUTS AND BOLTS SHALL BE HIGH STRENGTH, HIGH ALLOY STEEL. FLOUROCARBON COATED OR TYPE 304 STAINLESS STEEL AS MANUFACTURED BY STANDCO INDUSTRIES INC. OF HOUSTON, TEXAS OR EQUAL.



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C 103	SITE PLAN
C 104	UTILITY PLAN
C 105	GRADING AND EROSION CONTROL PLAN
C 106	LANDSCAPING AND LIGHTING PLAN
C 201-204	DETAILS



Client: ROYAL WASH TONAWANDA, 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 149 SECTION 7307. THESE PLANS ARE COPYRIGHT PROTECTED ©

**NOTES**

**ROYAL CAR WASH**

Town/City: Tonawanda  
County: Erie State: New York

Project No: **20182696.0001**

Drawing No. **C201** Sheet No. **7**

Scale: **N.T.S.**

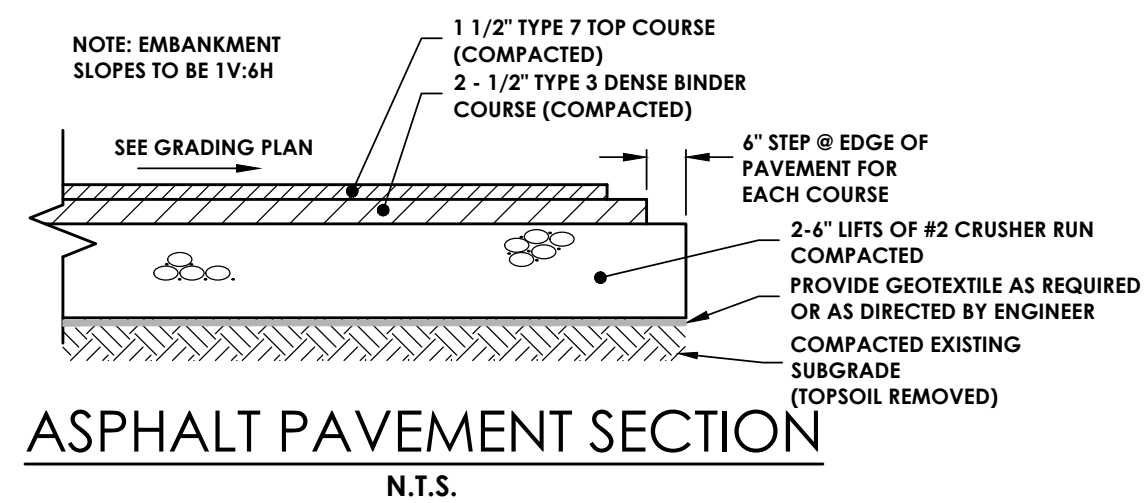
Date: **FEBRUARY 2019**

If you excavate anywhere in New York State, except NYC or Long Island, call

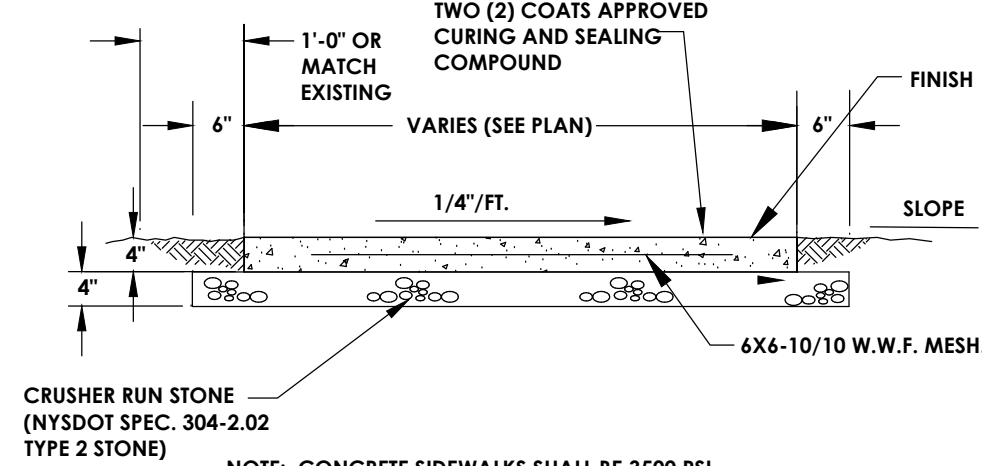
**Dig Safely. New York**  
1-800-962-7962  
i-Notice = www.DigSafelyNewYork.com

NOT FOR CONSTRUCTION

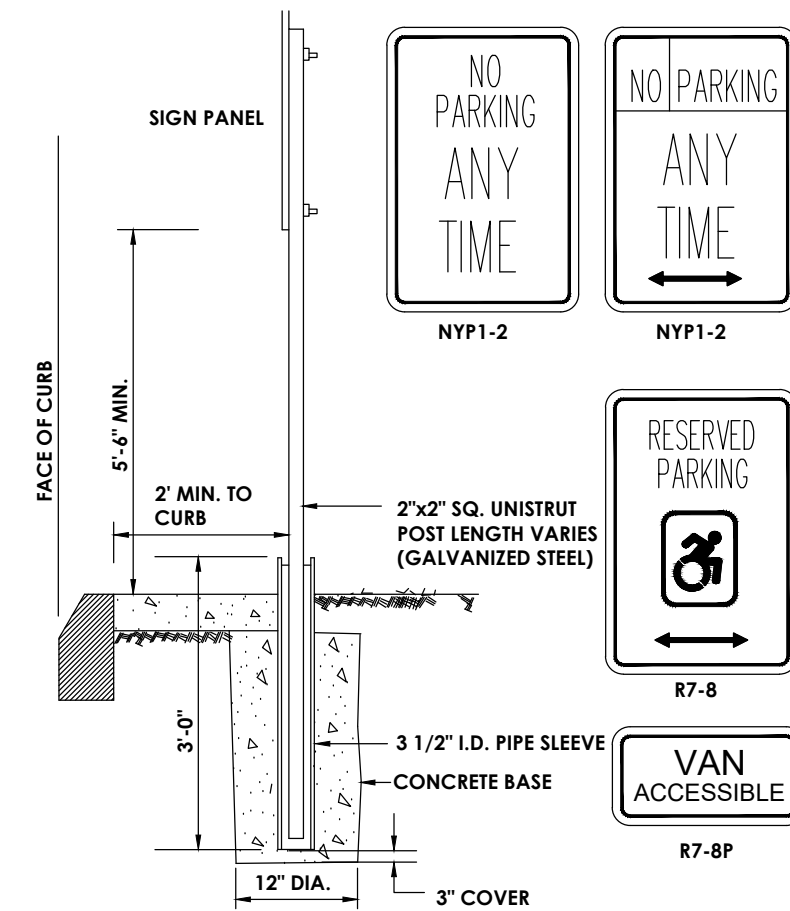




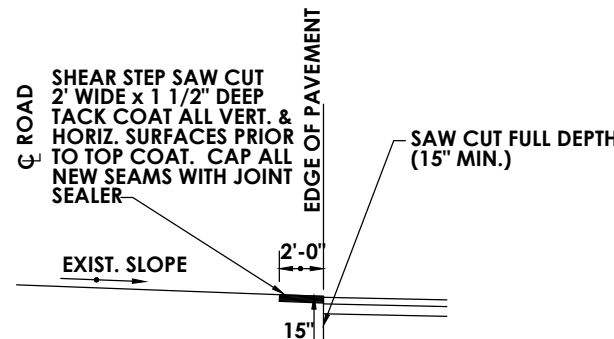
**ASPHALT PAVEMENT SECTION**  
N.T.S.



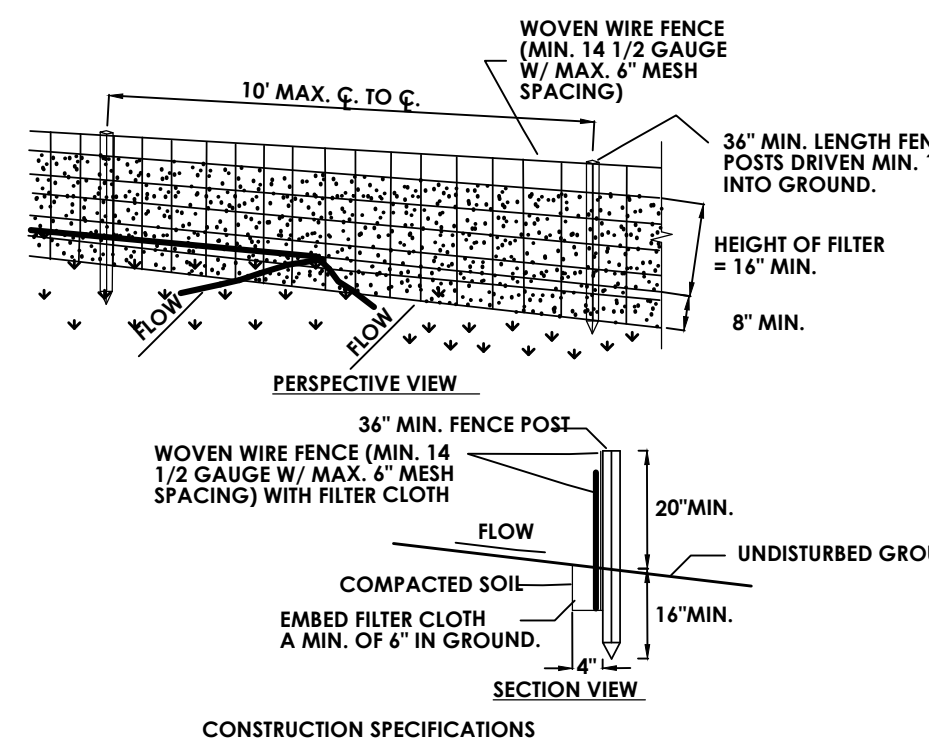
**TYPICAL SIDEWALK DETAIL**  
N.T.S.



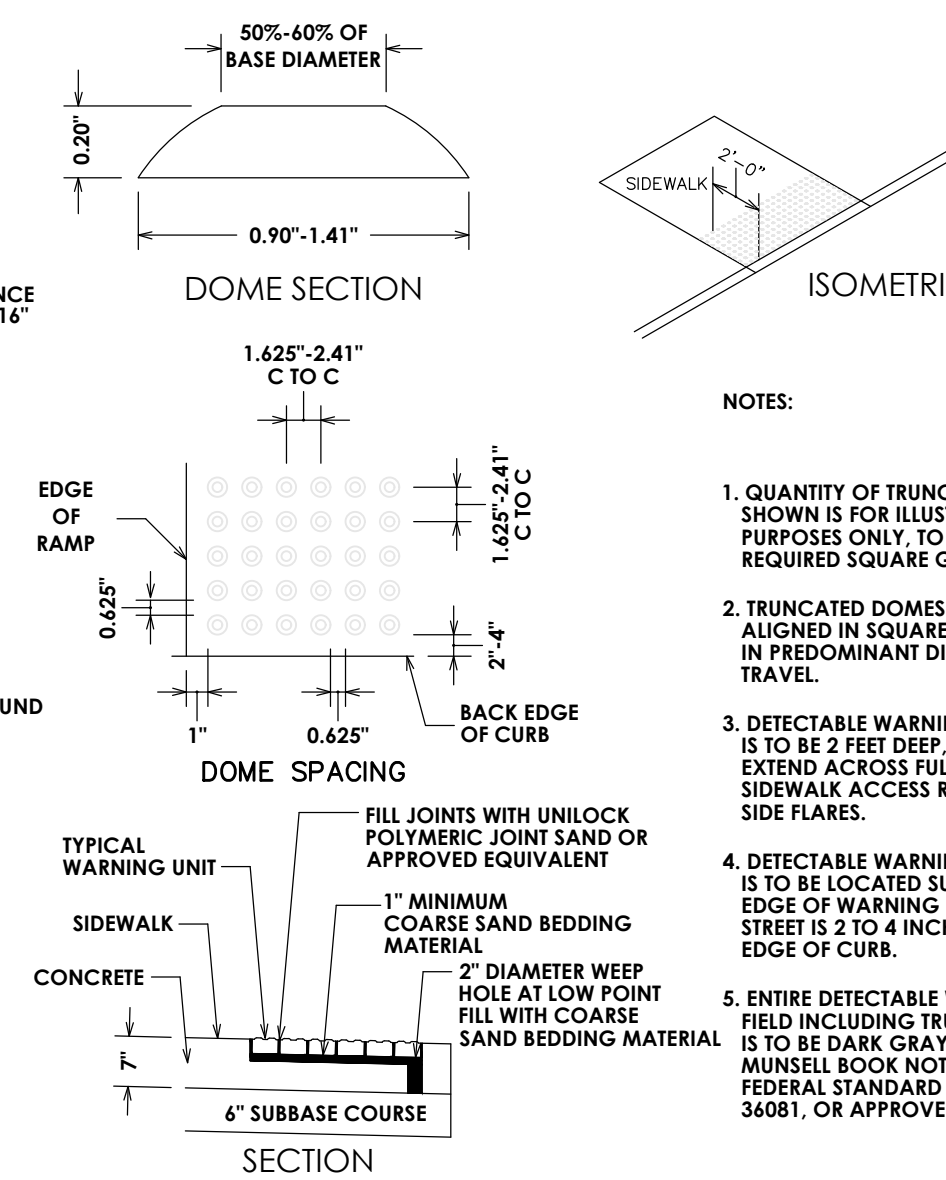
**TYPICAL POST MOUNT HANDICAP SIGN INSTALLATION**  
(SIGN IN LANDSCAPE AREA OR SIDEWALK)  
N.T.S.



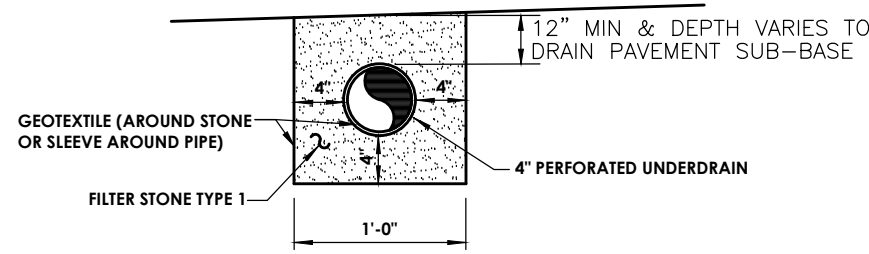
**PAVEMENT KEY DETAIL**  
(FOR CONNECTION TO EXISTING PAVEMENT)  
N.T.S.



**SILT FENCE DETAIL**  
N.T.S.



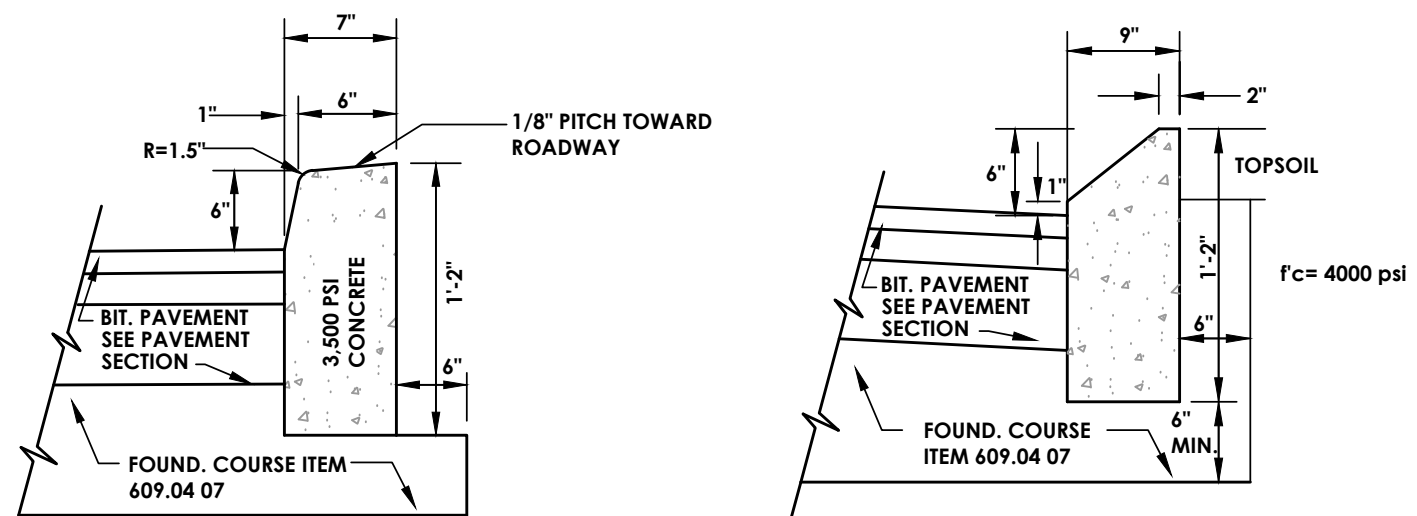
**DETECTABLE WARNING SURFACE**  
N.T.S.



**PAVEMENT AREA UNDERDRAIN**  
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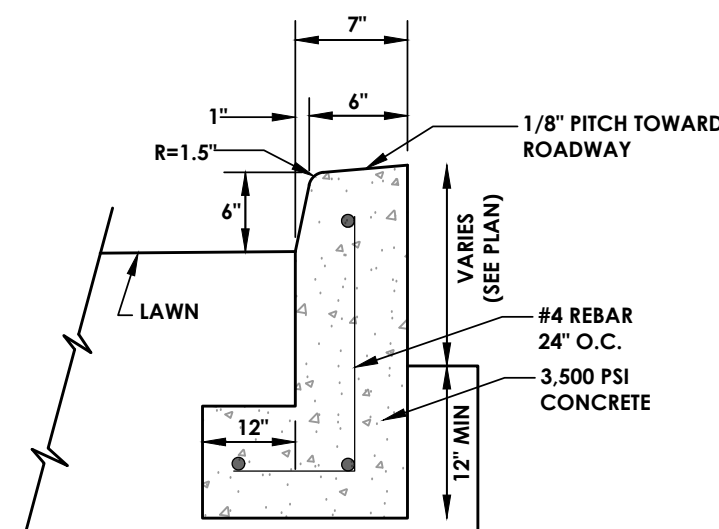


**MODIFIED INTERNATIONAL SYMBOL OF ACCESS**  
N.T.S.

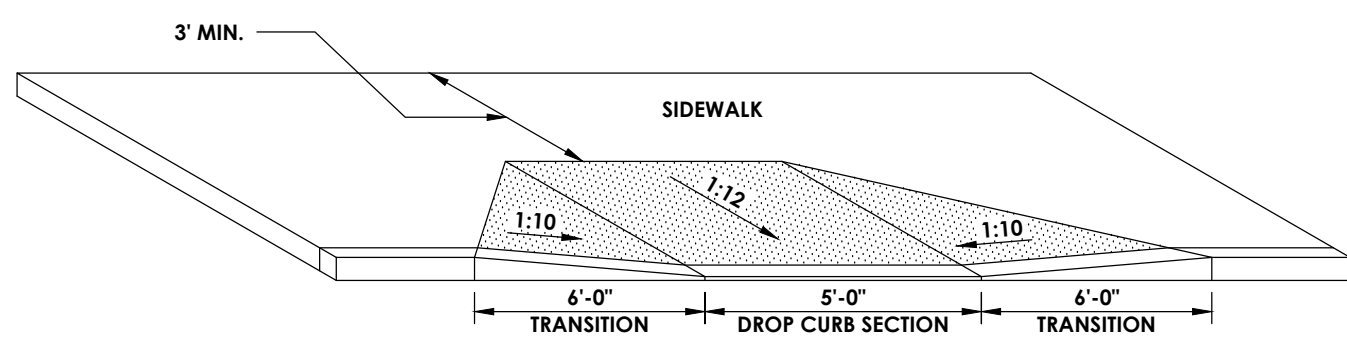


**CONCRETE CURB DETAIL**  
N.T.S.

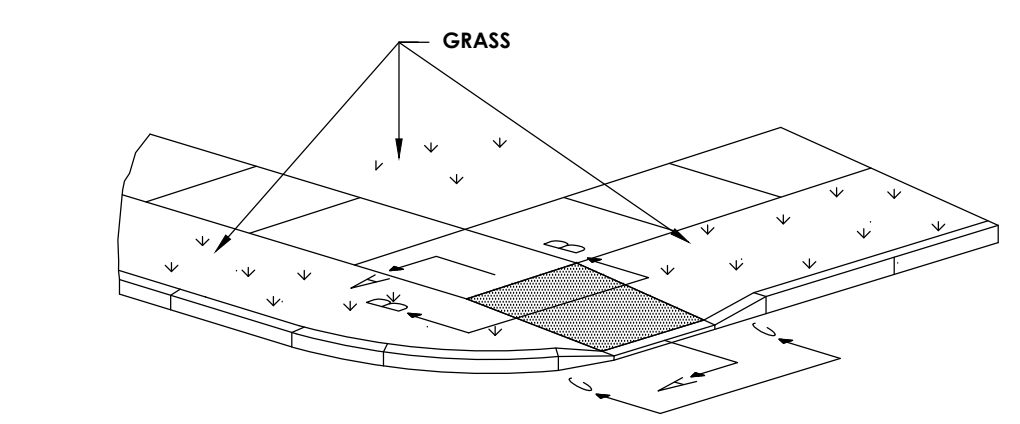
**MOUNTABLE CONCRETE CURB DETAIL**  
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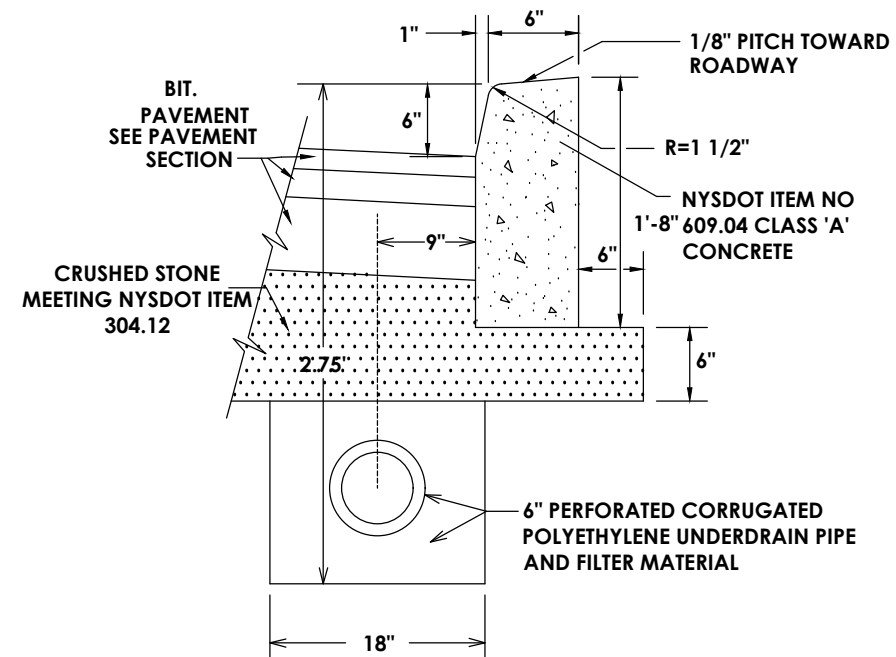
**CONCRETE CURB RETAINING WALL DETAIL**  
N.T.S.



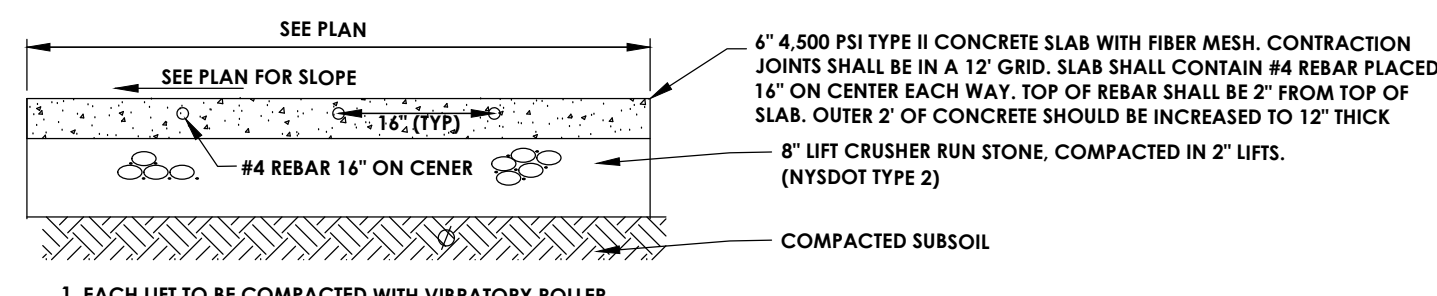
**TYPICAL HANDICAP RAMP**  
N.T.S.



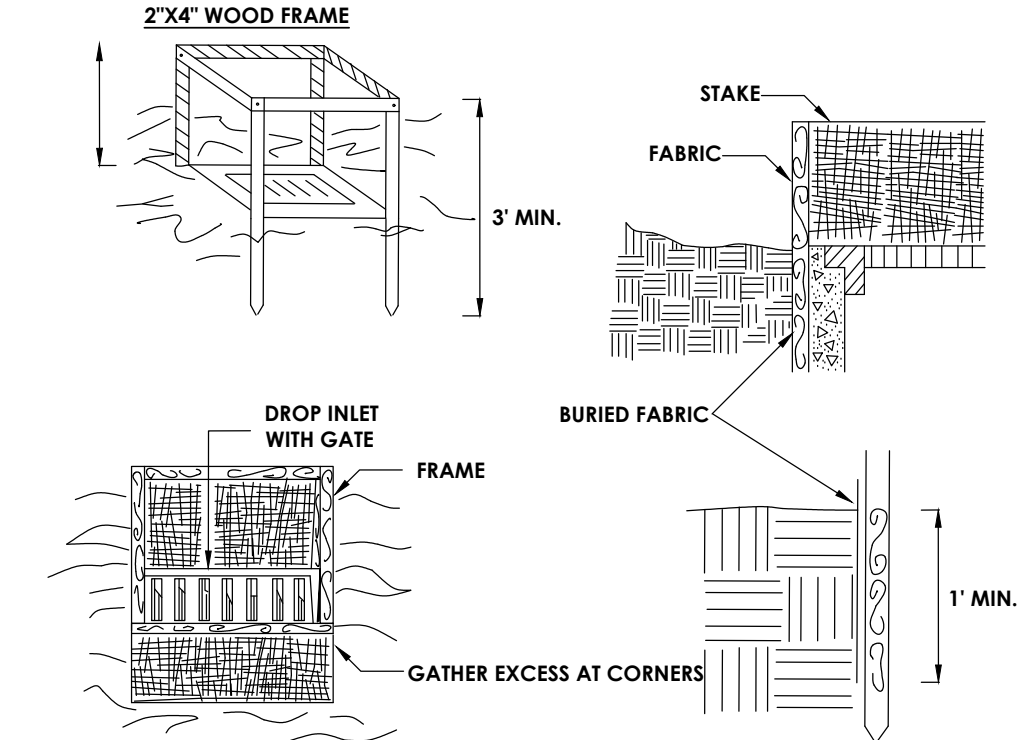
**TYPE 1 RAMP ISOMETRIC**  
N.T.S.



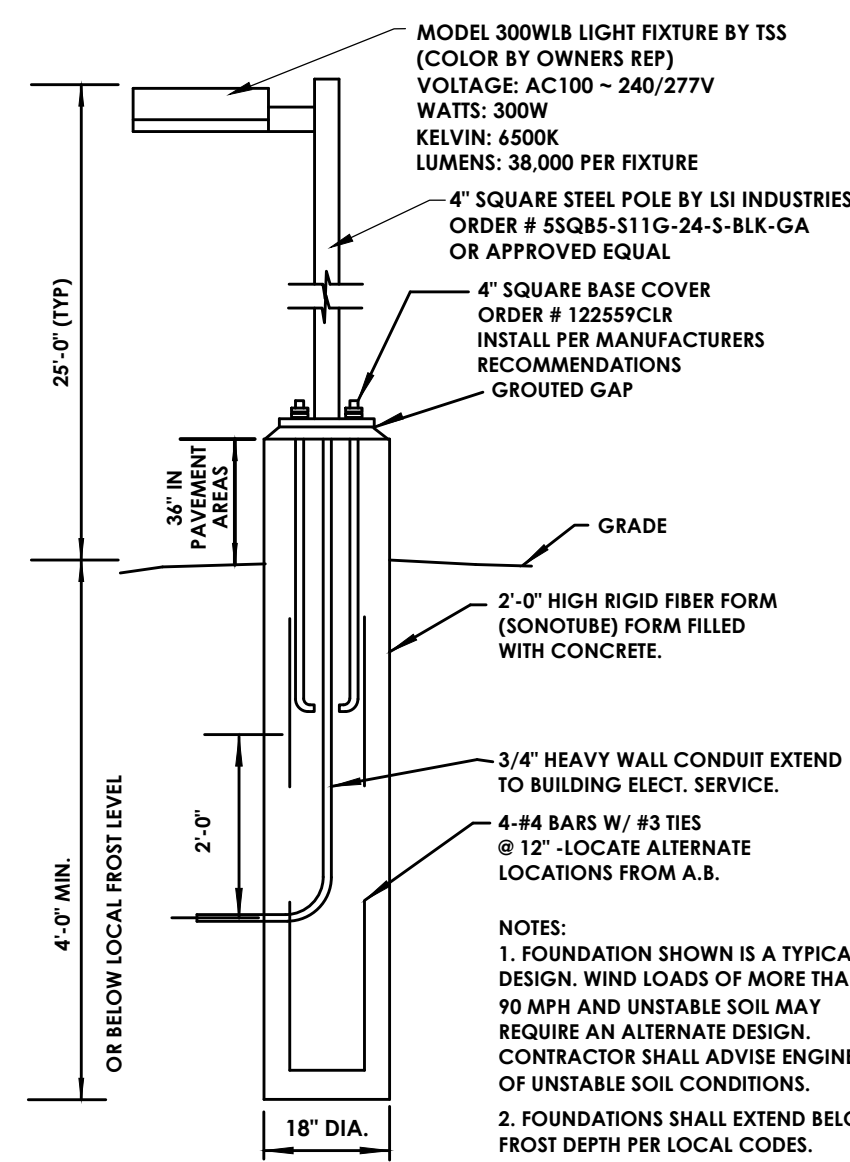
**CONCRETE CURB DETAIL**  
N.T.S.



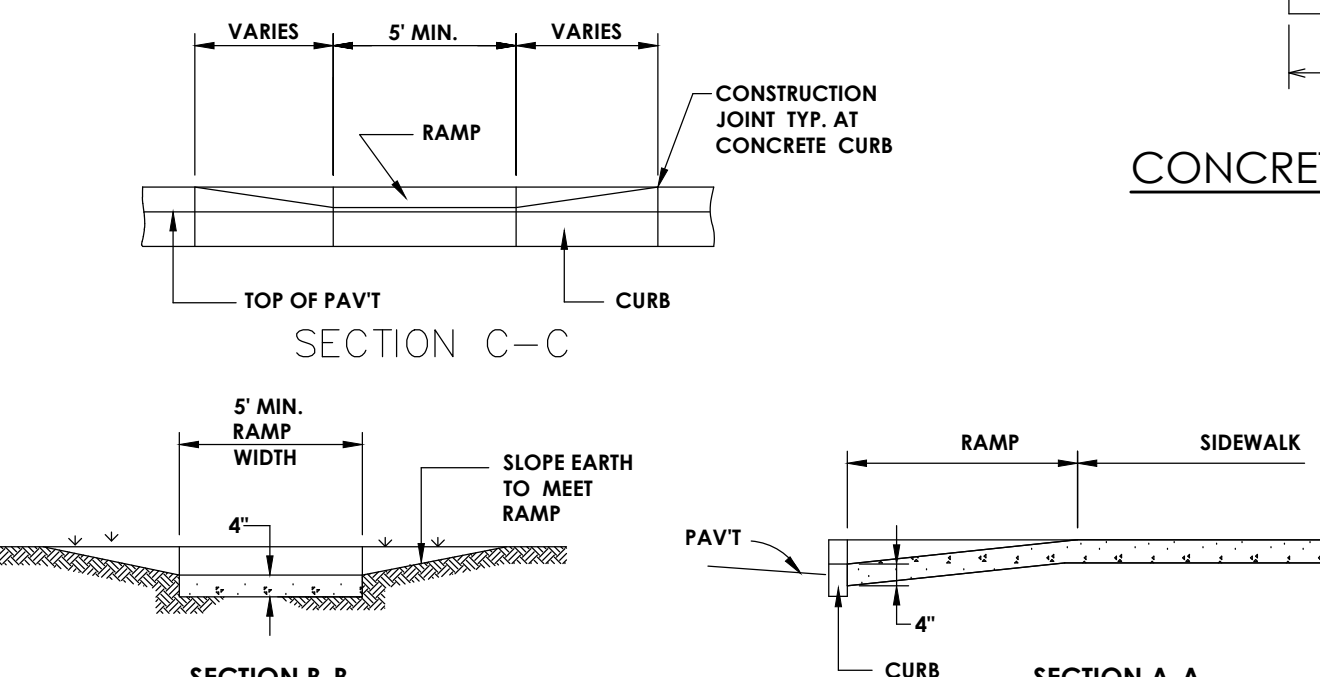
**CONCRETE PAVEMENT**  
N.T.S.



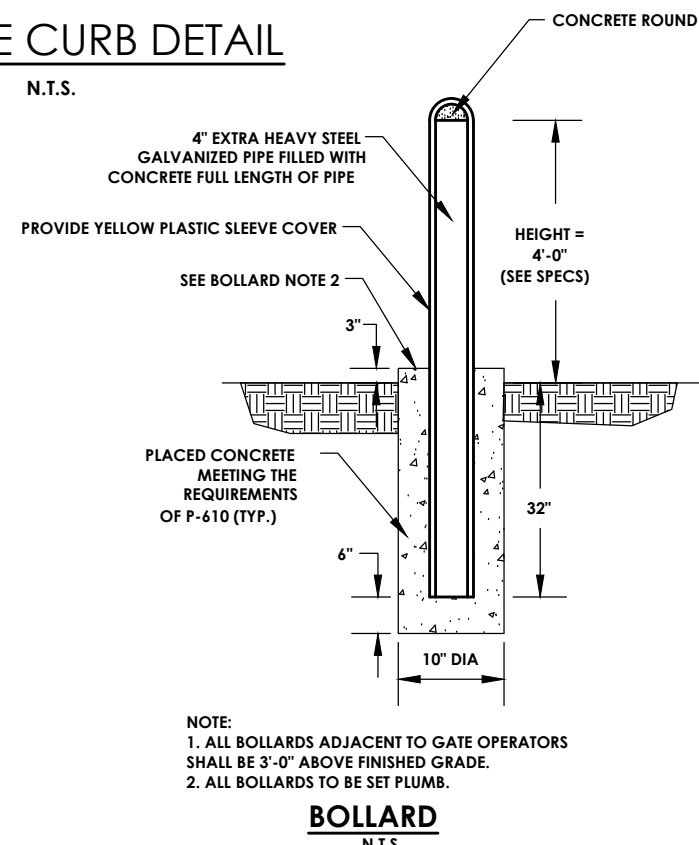
**FILTER FABRIC DROP INLET PROTECTION**  
N.T.S.



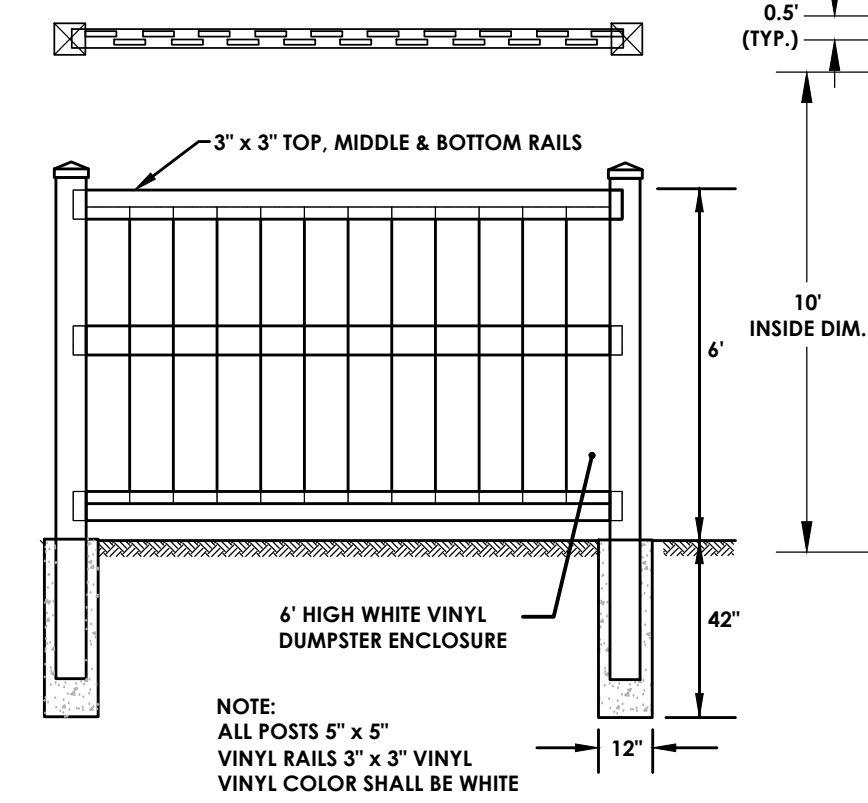
**LIGHT POLE AND BASE DETAIL**  
N.T.S.



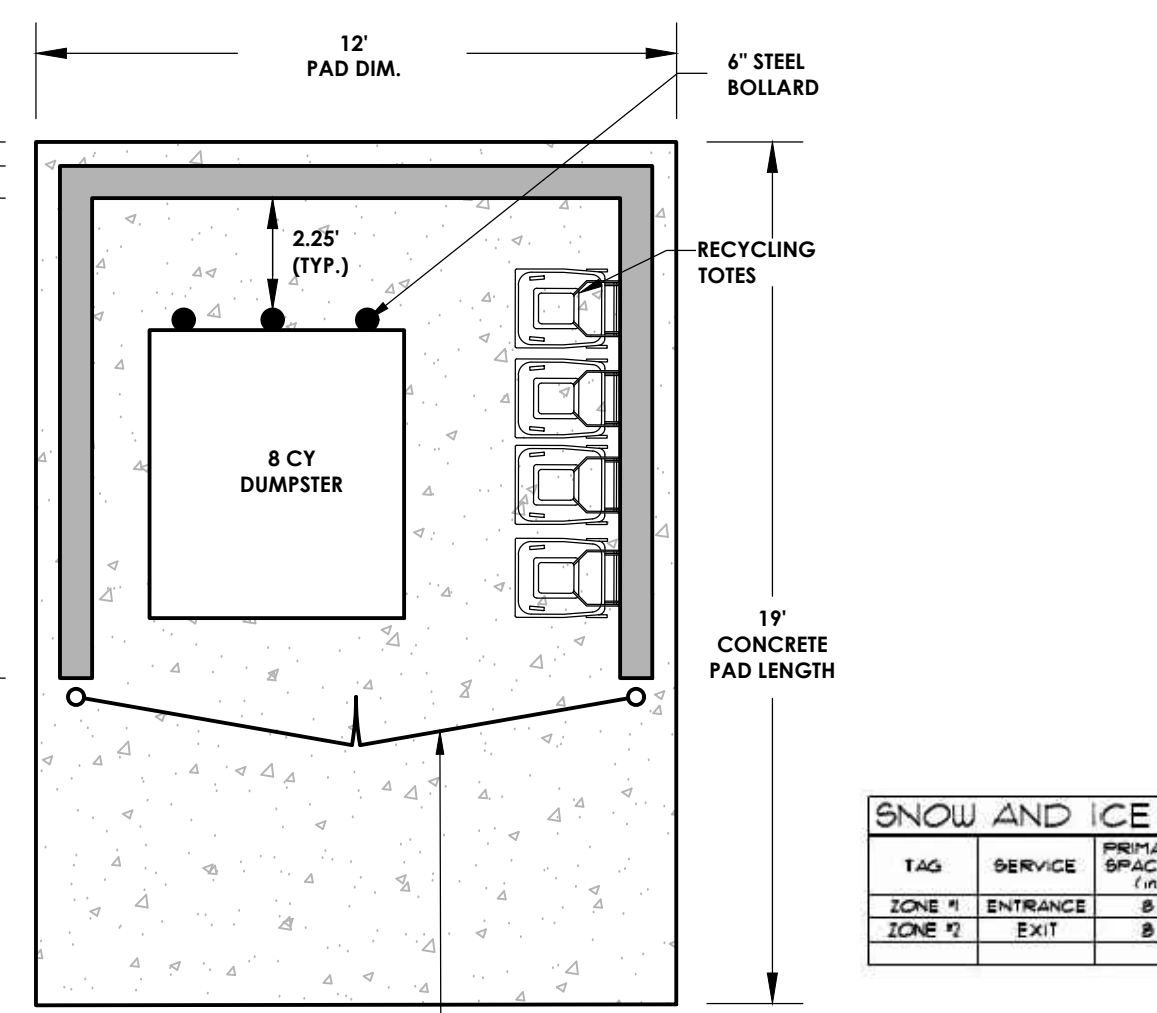
**SIDEWALK RAMP TYPE 1**  
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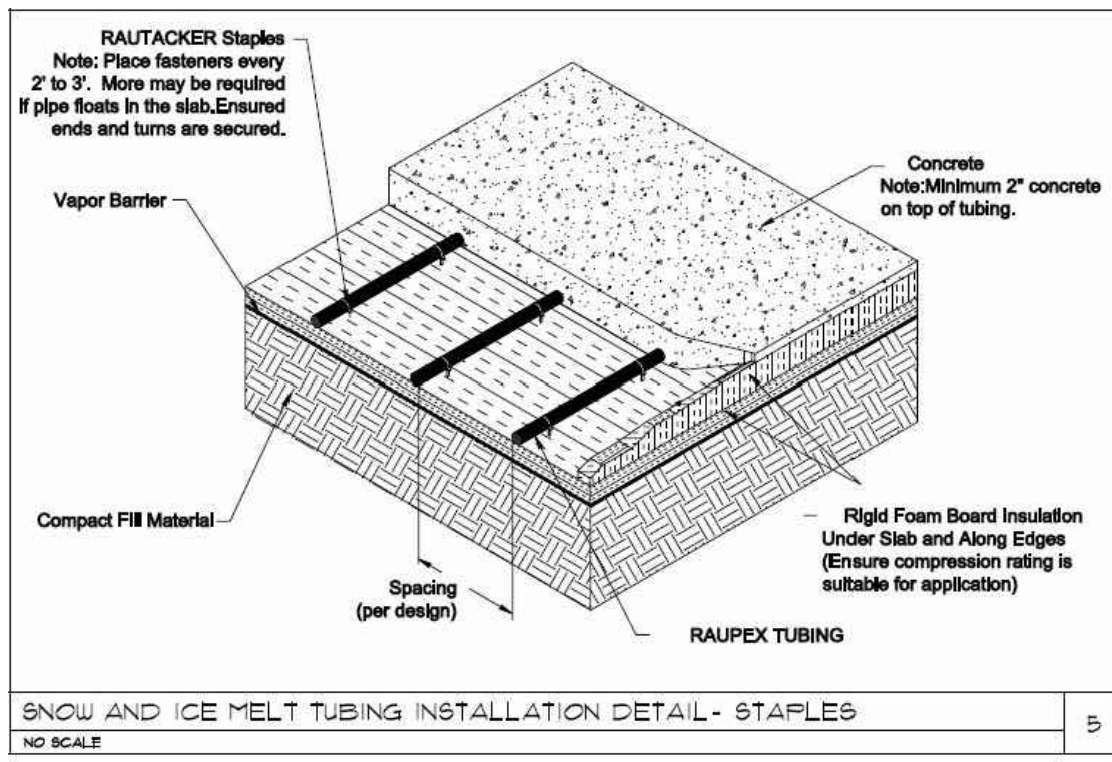
**BOLLARD**  
N.T.S.



**DUMPSTER ENCLOSURE DETAIL**  
N.T.S.



**ENCLOSURE PLAN**  
N.T.S.



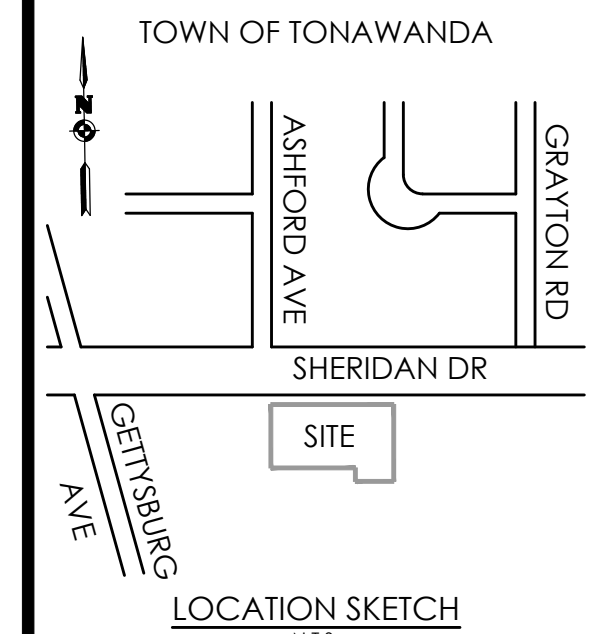
**HEATED CONCRETE DETAIL**  
N.T.S.

TAG	SERVICE	SPACING	PREPARE AREA (SQ. FT.)	HEATING INTENSITY (BTU/HR/SQ. FT.)	HEAT (BTU/HR)	FLUID (GAL)	DELTA T (DEG. F)	MANFOLD (IN.)	HEAD (IN.)	TUBING TYPE	TUBE LENGTH (FT.)	NO. OF JOINTS	DESIGN EQUIPMENT
ZONE #1	ENTRANCE	8	350	150	52,500	100	20	5/2	3.5	1/2\"/>			
ZONE #2	EXIT	8	350	150	52,500	100	20	5/2	3.5	1/2\"/>			

NOTES:  
1. CONTRACTOR TO FURNISH SHOP DRAWINGS FOR APPROVAL

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



**Revisions**

No.	Date	By	Description

**DETAILS**

**ROYAL CAR WASH**

Town/City: Tonawanda  
County: Erie  
State: New York

Project No.: **20182696.0001**

Drawing No.: **C202**  
Sheet No.: **8**

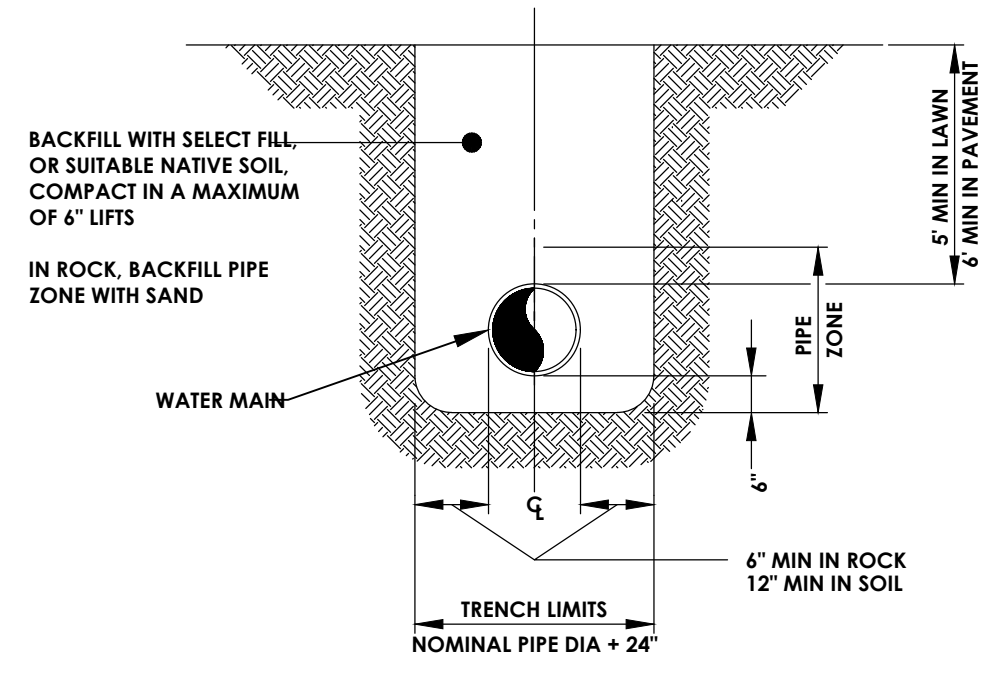
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Date: **FEBRUARY 2019**

NOT FOR CONSTRUCTION

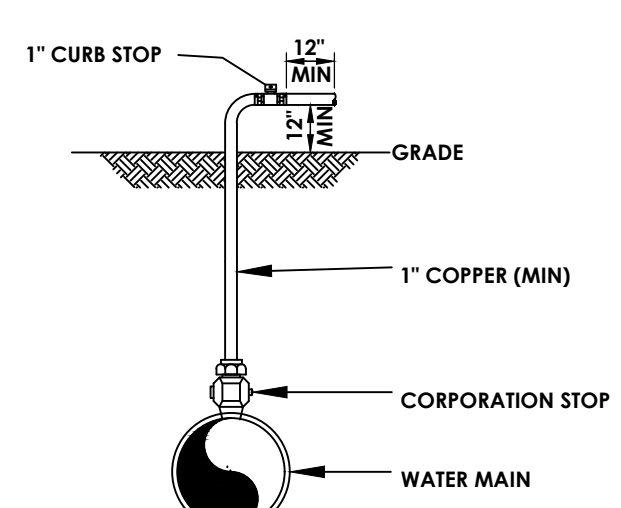


**WATERMAIN AND SERVICE DETAILS**



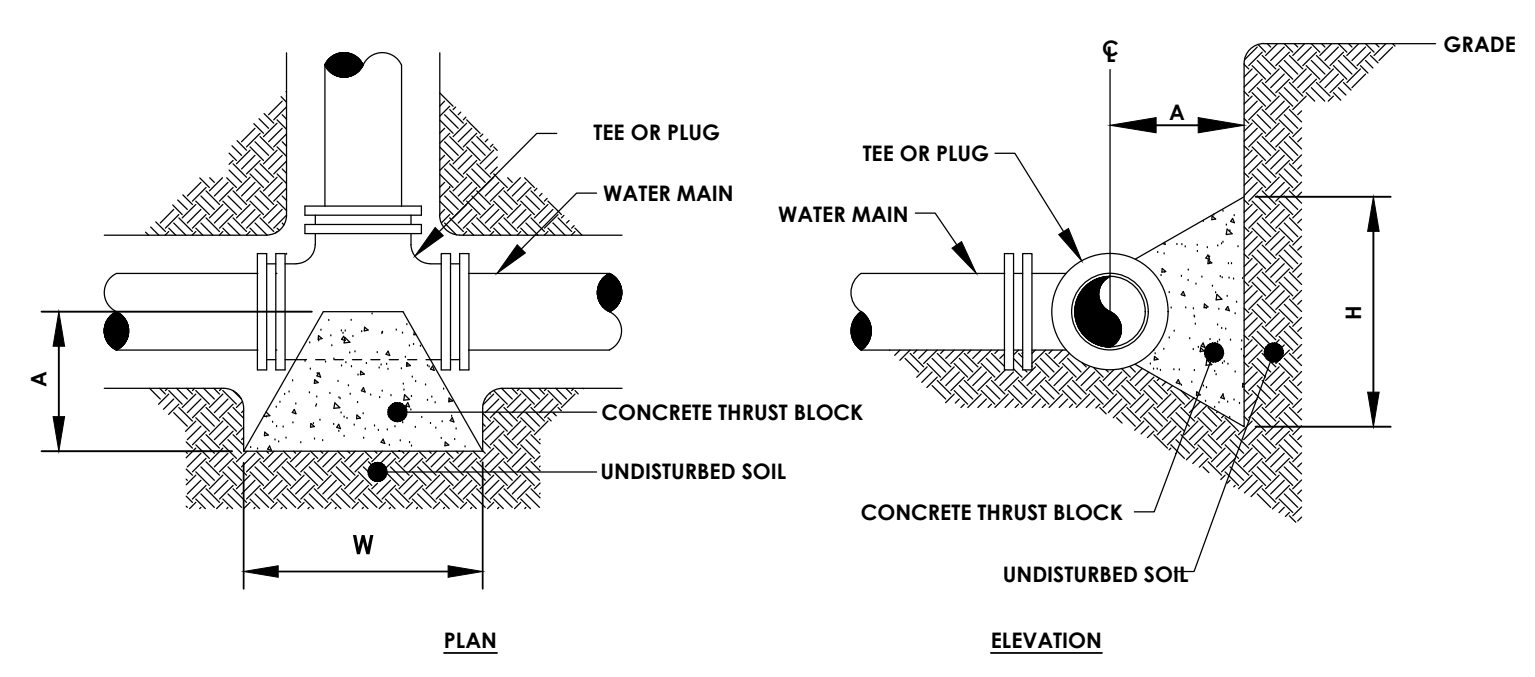
**WATERMAIN TRENCH**

N.T.S.



NOTE: IMMEDIATELY PRIOR TO THE AUTHORITY PLACING WATER MAIN IN SERVICE CONTRACTOR SHALL REMOVE ALL CORPORATIONS ASSOCIATED WITH TEMPORARY FACILITIES (I.E. SAMPLING TAPS, ETC.) AND REPLACE WITH THREADED BRASS PLUGS. PLACEMENT OF THREADED BRASS PLUG MUST BE WITNESSED BY A TOWN OF TONAWANDA REPRESENTATIVE.

**DISINFECTION/BLOW-OFF/SAMPLING TAP**



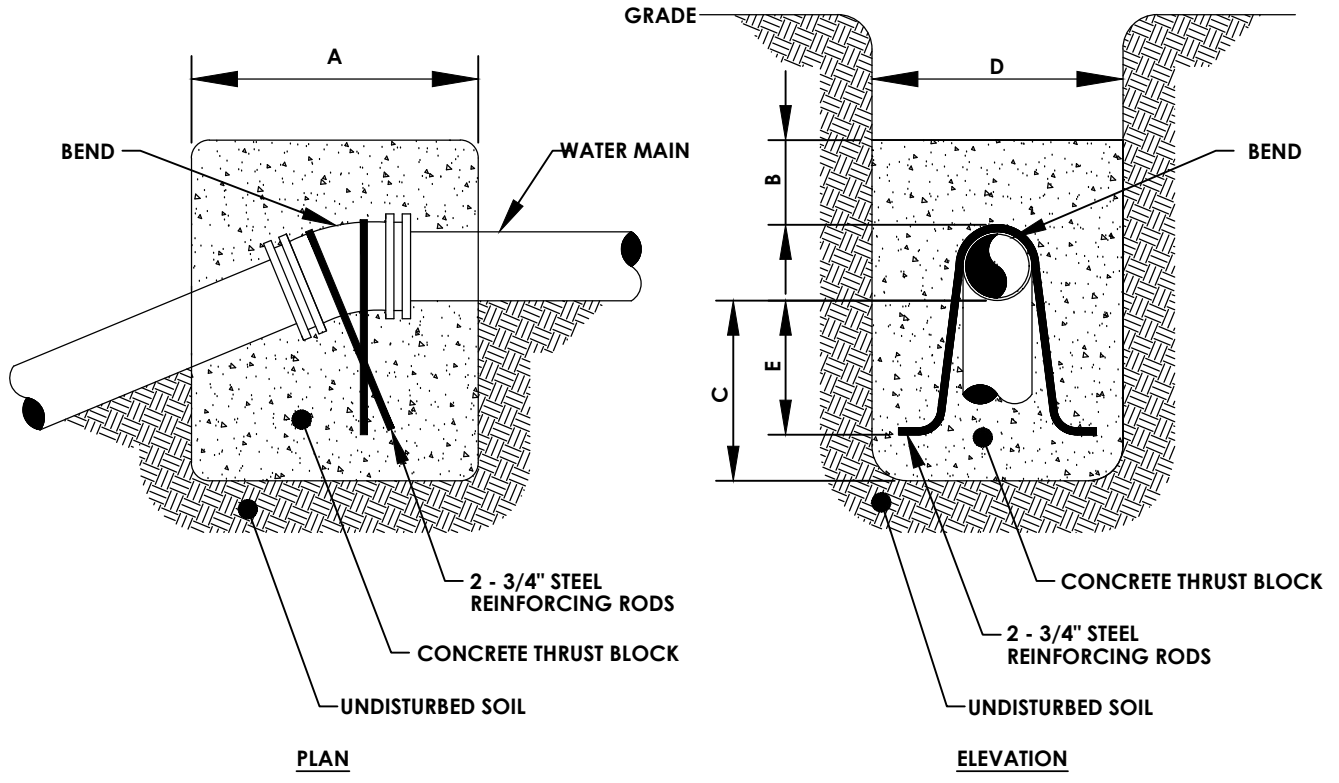
MINIMUM HORIZONTAL THRUST BLOCK DIMENSIONS, IN FEET, TO BE POURED AGAINST UNDISTURBED SOIL

FITTING	H	W	A
4" x 11-1/4" BEND	0.5	1.0	0.7
4" x 22-1/2" BEND	0.7	1.5	0.7
4" x 45" BEND	1.0	2.0	1.0
4" x 90" BEND	1.5	3.0	1.2
4" TEE OR PLUG	1.2	2.5	1.0

NOTE: WIDTH (W) OF BLOCK SHALL NOT EXCEED TWICE THE HEIGHT (H).

**HORIZONTAL THRUST BLOCK FOR BENDS**

N.T.S.



MINIMUM VOLUME OF CONCRETE

MINIMUM ALLOWABLE DIMENSIONS FOR VERTICAL THRUST BLOCKS (IN FEET)

BEND *	DIMENSIONS	MINIMUM ALLOWABLE DIMENSIONS FOR VERTICAL THRUST BLOCKS (IN FEET)				
		A	B	C	D	E
4" x 11-1/4"	0.35 C.Y.	0.5	1.2	0.5	1.0	0.5
4" x 22-1/2"	0.70 C.Y.	0.5	1.2	0.7	1.0	0.5
4" x 45"	1.40 C.Y.	0.7	1.2	0.7	1.0	0.5

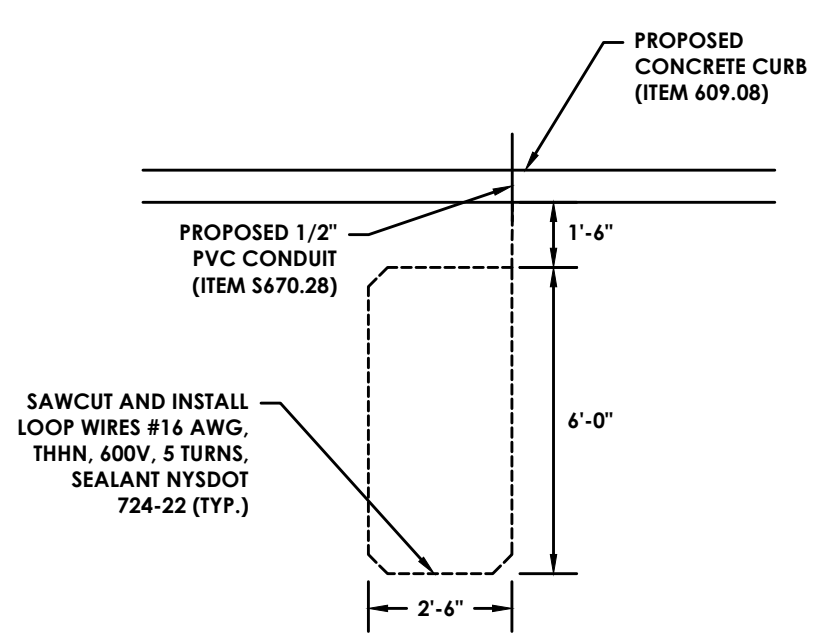
**VERTICAL THRUST BLOCK**

N.T.S.

- NOTE:
1. VALVE BOX SHALL BE CENTERED ON VALVE AND SET ON COMPACTED BACKFILL.
  2. VALVE SHALL NOT SUPPORT VALVE BOX.
  3. ALL BODY AND BONNET BOLTS SHALL BE STAINLESS STEEL.
  4. ALL VALVES SHALL BE OPEN LEFT EXCEPT VALVES 12" AND SMALLER

**WATER VALVE**

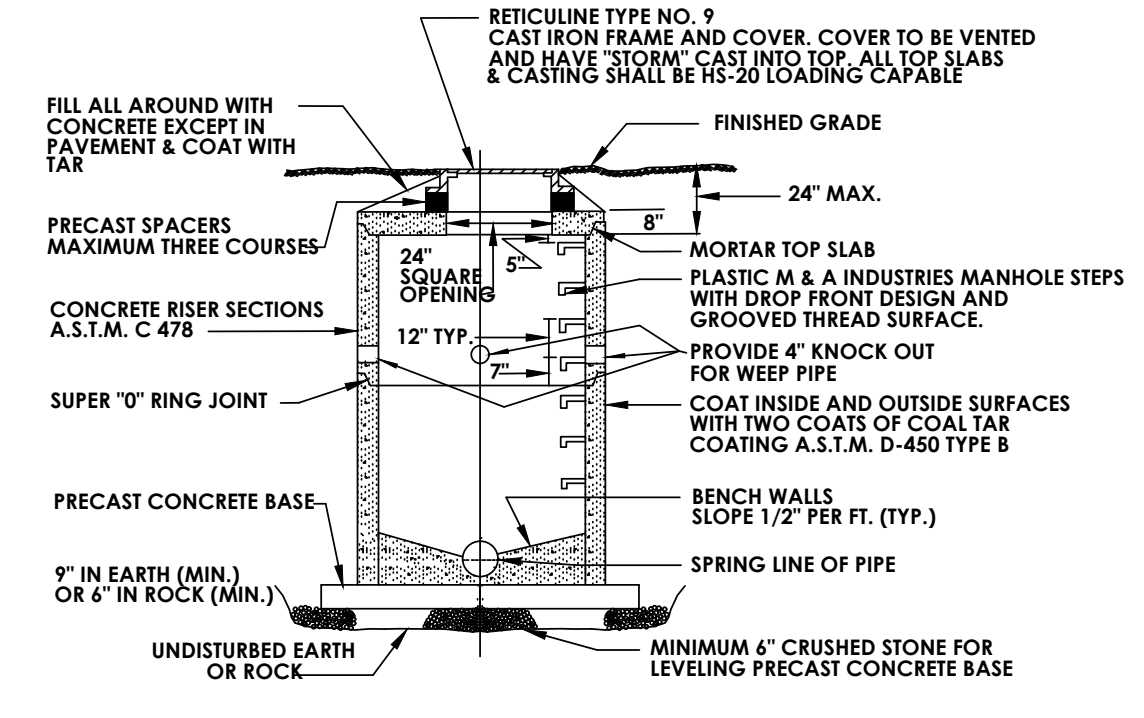
N.T.S.



**TYPICAL INDUCTANCE TRAFFIC SENSOR LOOP DETAIL**

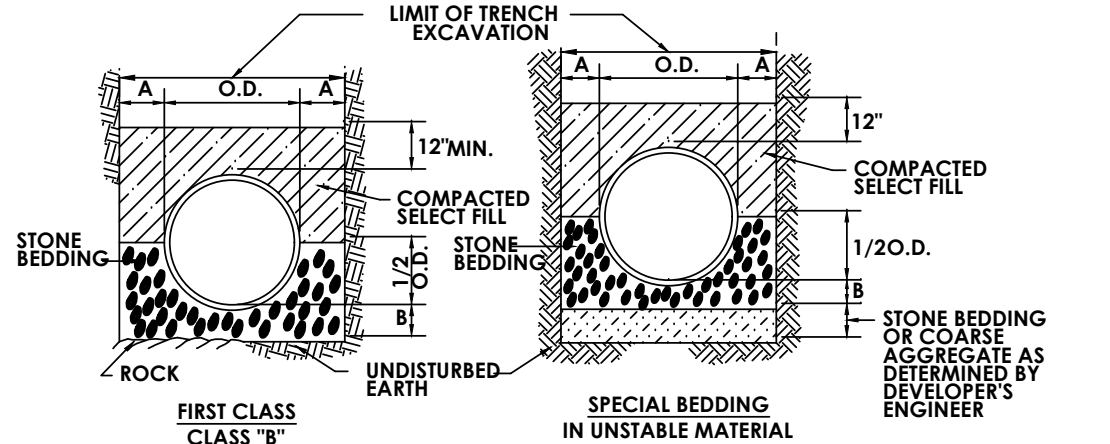
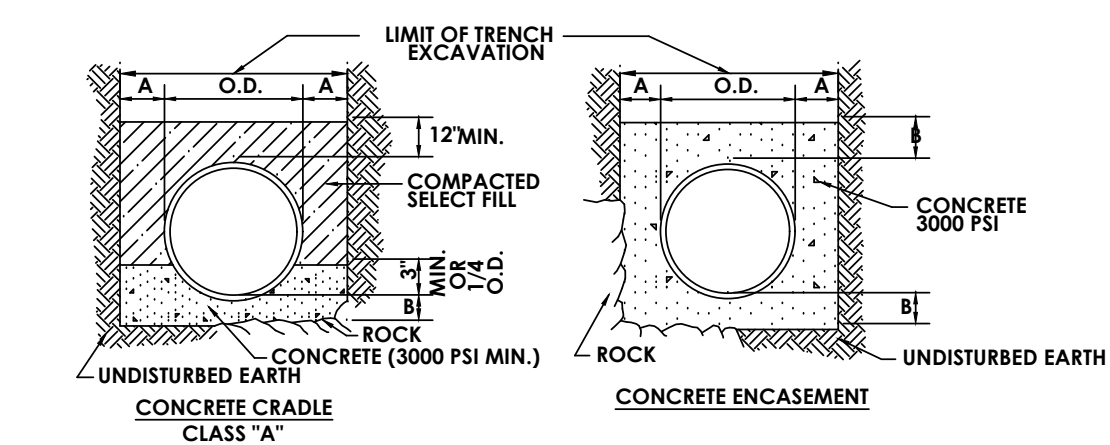
N.T.S.

**SANITARY & STORM SEWER DETAILS**



**STANDARD STORM MANHOLE DETAIL**

N.T.S.



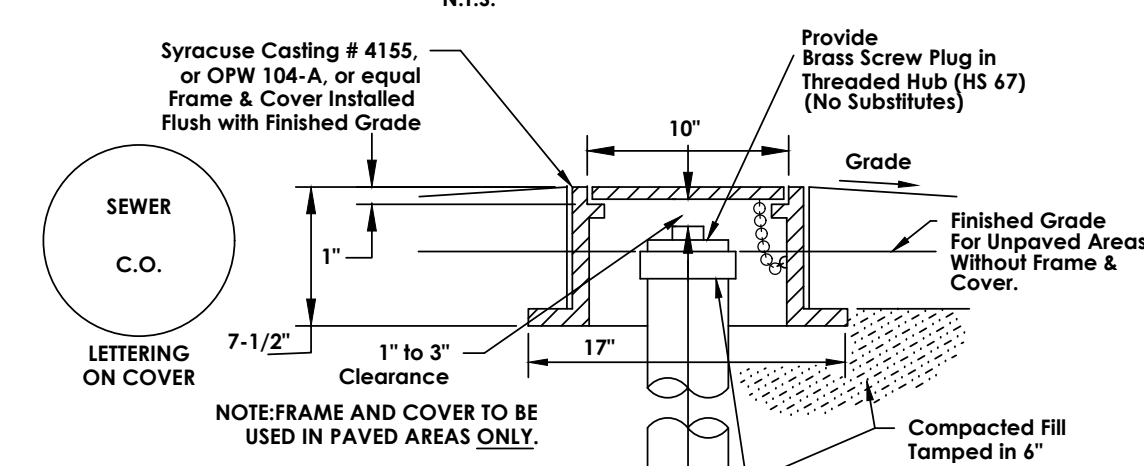
- NOTE:
1. TRENCH BACKFILL SHALL BE AS REQUIRED BY THE HIGHWAY OWNER.
  2. SELECT FILL SHALL BE SAND, GRAVEL, AND SIMILAR MATERIAL WHICH SHALL BE FREE FROM CLAY, LOAM, ORGANIC MATERIAL, DEBRIS, FROZEN MATERIAL AND SHALL CONTAIN ONLY SMALL AMOUNTS OF STONE, PEBBLES OR LUMPS OVER ONE INCH IN GREATEST DIMENSION BUT NONE OVER TWO INCHES IN GREATEST DIMENSION.
  3. STONE BEDDING SHALL MEAN APPROVED IMPORTED AGGREGATE MEETING THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATION, JAN. 2, 1990 EDITION, AS REVISED, SUBSECTION 703-0201 "CRUSHED STONE", PRIMARY SIZE 1 OR A MIXTURE OF PRIMARY SIZES 1 AND 2.
  4. COARSE AGGREGATE SHALL MEAN APPROVED IMPORTED AGGREGATE MEETING THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATION, JAN. 2, 1990 EDITION, AS REVISED, SUBSECTION 703-0201 "CRUSHED STONE", PRIMARY SIZE 3 AND/OR 4.
  5. THIS FIGURE APPLIES TO SANITARY MAINLINE AND LATERAL PIPE INSTALLATION AS WELL AS FORCE MAINS.

PIPE DIA. DIM. A DIM. B

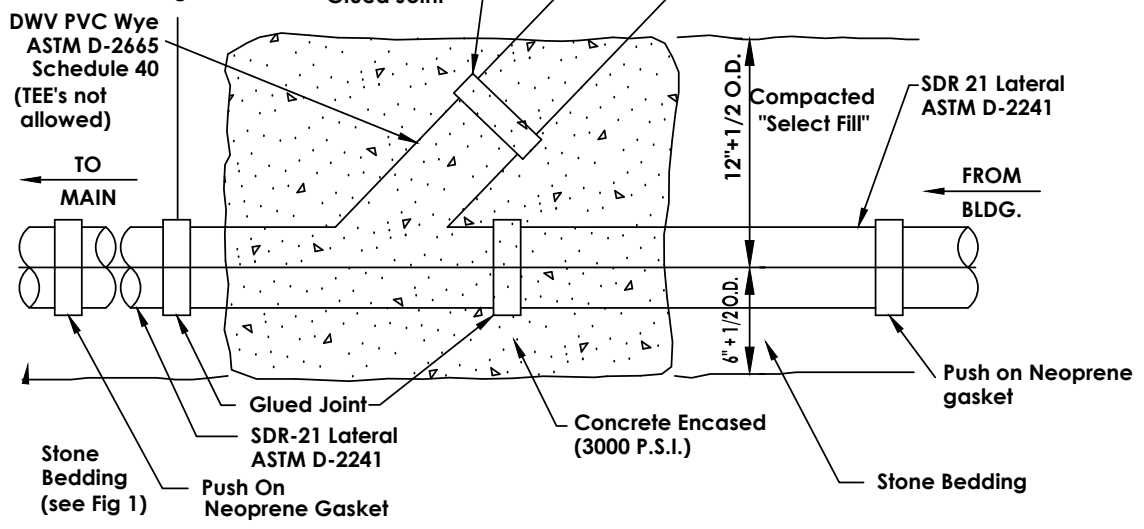
UP TO 18"	1.0'	6"
21" TO 36"	1.5'	9"
OVER 36"	1.5'	12"

**STORM SEWER/SANITARY SEWER BEDDING DETAILS**

N.T.S.

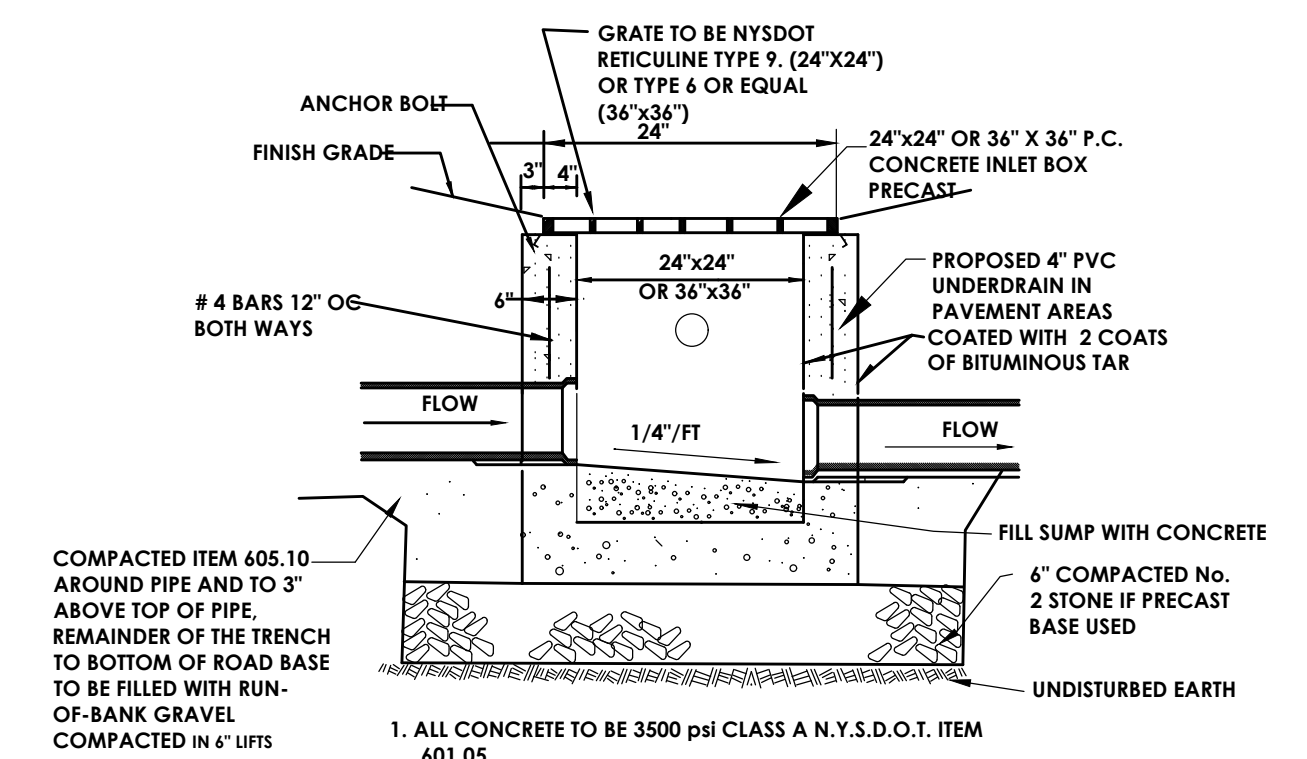


- NOTE: It is Recommended that all Solvent Weld Joints Be Made As Follows:
- a. Clean Dry Hubs & Spigots
  - b. Primer Applied to Parts Being Connected.
  - c. PVC Solvent Weld Cement Applied Directly Over Primer
  - d. PVC Type 1 is Compatible for Solvent Welding to SDR 21 or Any Other PVC Type 1 Pipe Made To "Steel Pipe" Outside Dimensions.



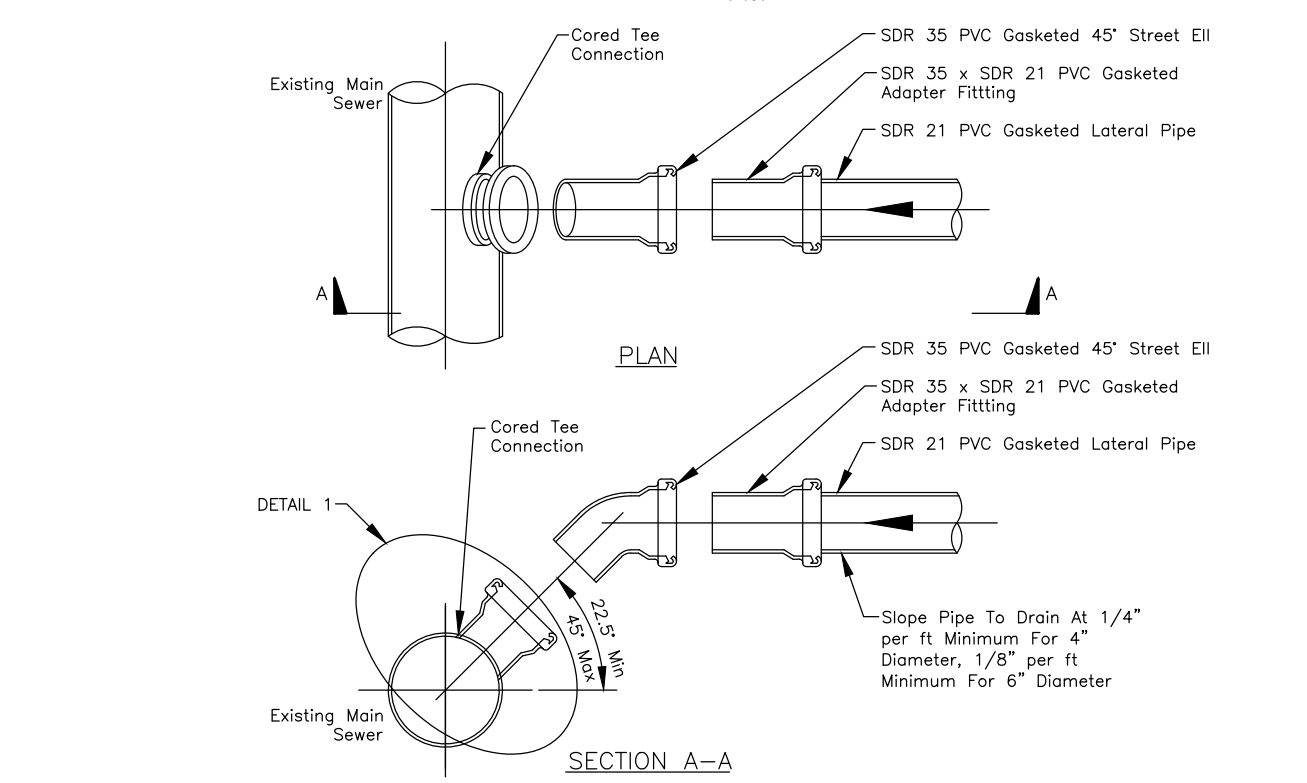
**6" P.V.C. CLEANOUT DETAIL FOR LATERAL CONNECTION**

N.T.S.

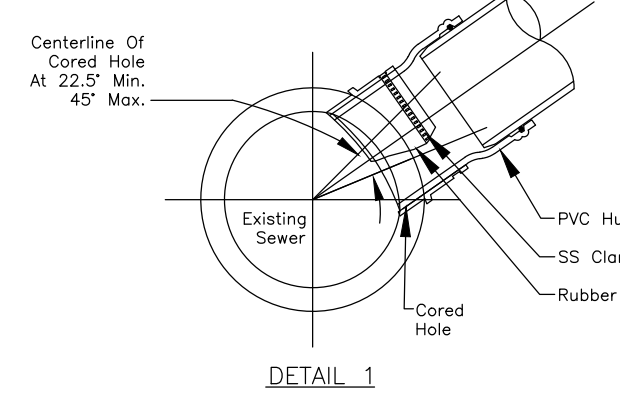


**STANDARD CATCH BASIN DETAIL**

N.T.S.



- NOTE:
1. Lateral connection must be cored. Pneumatic devices or honing methods are not acceptable for creating opening for new lateral pipe.
  2. Size of cored opening shall be limited to one-half the nominal diameter of the mainline sewer.
  3. Expose face of pipe from crown to invert for 12" along the length of the mark. Core hole a minimum of 6" away from existing pipe hubs.
  4. Take necessary precautions to prevent damage to the existing sewer, and to prevent debris from entering the sewer.
  5. Thoroughly clean surface of existing pipe of foreign matter and loose particles prior to placement of Tee connection.
  6. Tee connection: Insert Tee by Inserting Filling Co. or approved equal.
  7. Lateral connections must be witnessed by a representative of the District.
  8. Notify Pure Waters a minimum of 48 hours in advance of construction for inspection of the lateral connection. Telephone (585) 740-7400, Option 5.



INSERTA TEE SIZE HOLE DIAMETER

4" (100mm)	4-1/2" (112.5mm)
6" (150mm)	6-1/2" (162.5mm)
8" (200mm)	8-3/4" (218.5mm)
10" (250mm)	10-7/8" (271.9mm)
12" (300mm)	12-7/8" (321.9mm)
15" (375mm)	15-15/16" (395.3mm)

Required method of cutting hole is with hole saw for PVC and polyethylene, and diamond bit for concretes, clay, and ductile iron.

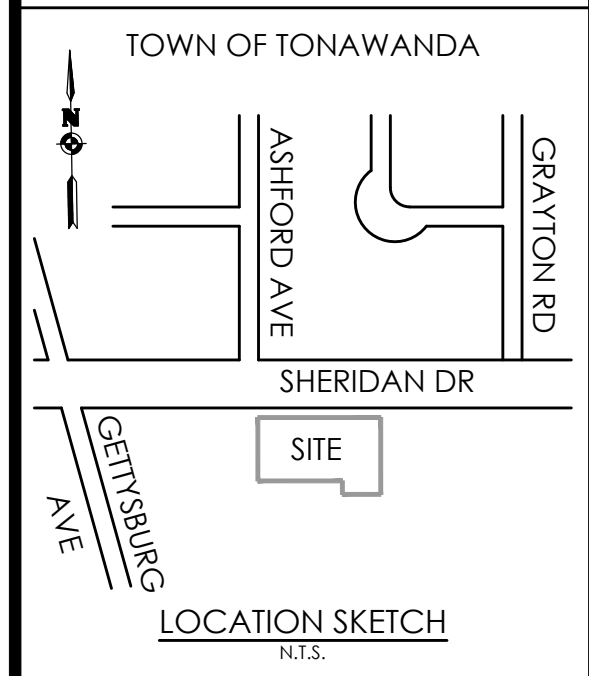
**MONROE COUNTY PURE WATERS**

**CORED TEE CONNECTION TO EXISTING SEWER**



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

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 Designed by: Jon Daniels



Revisions

No.	Date	By	Description

**DETAILS**

**ROYAL CAR WASH**

Town/City: Tonawanda County: Erie State: New York  
 Project No: 20182696.0001  
 Drawing No: C203 Sheet No: 9  
 Scale: N.T.S.  
 Date: FEBRUARY 2019

NOT FOR CONSTRUCTION

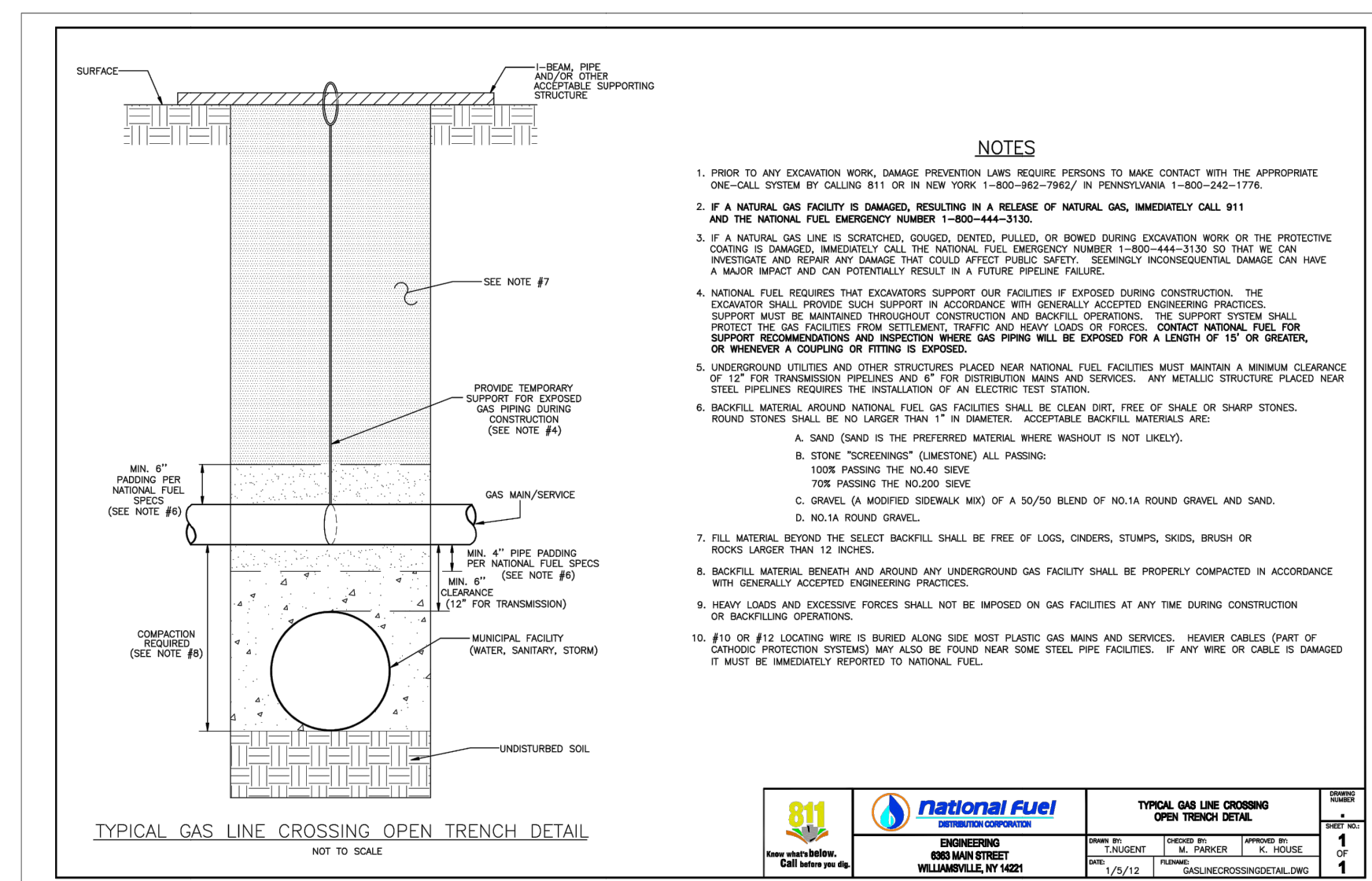


**NYSDOT STANDARD GENERAL PLAN NOTES**

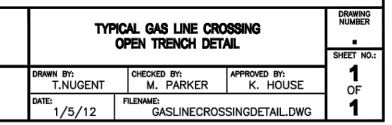
- ROAD TO BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
- ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES.
- MATERIALS, EQUIPMENT AND VEHICLES ARE NOT TO BE STORED OR PARKED WITHIN THE NEW YORK STATE RIGHT-OF-WAY.
- MAINTENANCE AND PROTECTION OF TRAFFIC MUST COMPLY WITH THE CURRENT NATIONAL MUTCD WITH 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 NYSDOT ENGINEER-IN-CHARGE.
- NOTIFY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S ASSISTANT RESIDENT ENGINEER, FIVE (5) WORK DAYS PRIOR TO WORKING WITHIN THE STATE RIGHT-OF-WAY.
- 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 NYSDOT DEPARTMENT OF TRANSPORTATION 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 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

**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 OVERLAP 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 OVERLAP MATERIAL ONTO THE LANE IS NOT ALLOWED. IF THE OVERLAP 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 OVERLAP 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% GMM AT THE DESIGN NUMBER OF GYRATIONS (NDESIGN). 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 QAF.



- NOTES**
- PRIOR TO ANY EXCAVATION WORK, DAMAGE PREVENTION LINES REQUIRE PERSONS TO MAKE CONTACT WITH THE APPROPRIATE ONE-CALL SYSTEM BY CALLING 811 OR BY NEW YORK STATE 1-800-882-7867 / IN PENNSYLVANIA 1-800-352-1776.
  - IF A NATURAL GAS FACILITY IS DAMAGED, RESULTING IN A RELEASE OF NATURAL GAS, IMMEDIATELY CALL 811 AND THE NATIONAL FIRE DEPARTMENT NUMBER 1-800-444-3333.
  - IF A NATURAL GAS LINE IS EXPOSED, BURNED, BENT, OR BENT DURING EXCAVATION WORK OR THE PROTECTIVE COATING IS DAMAGED, IMMEDIATELY CALL THE NATIONAL FIRE DEPARTMENT NUMBER 1-800-444-3333 SO THAT WE CAN LOCATE AND REPAIR AND DAMAGE THAT COULD BE A SAFETY HAZARD. REMOVAL OF EXCESSIVE DAMAGE CAN HAVE A MAJOR IMPACT AND CAN POTENTIALLY RESULT IN A FUTURE PIPELINE FAILURE.
  - NATURAL GAS FACILITIES THAT REQUIRE SUPPORT FOR PROTECTIVE COVERINGS DURING CONSTRUCTION, THE EXCAVATOR SHALL PROVIDE SUCH SUPPORT IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES. THE CONTRACTOR SHALL MAINTAIN THE SUPPORT SYSTEM THROUGHOUT CONSTRUCTION. THE SUPPORT SYSTEM SHALL PROTECT THE GAS FACILITIES FROM SETTLEMENT, TRAFFIC AND ROAD LOADS OR FORCES, CONTACT WITH OTHER UTILITY SUPPORT REQUIREMENTS AND HORIZONTAL IMPACTS. ALL SUPPORT SHALL BE EXPOSED FOR A LENGTH OF 10' OR GREATER, OR WHICHEVER A COUPLING OR FITTING IS EXPOSED.
  - UNDERGROUND UTILITIES AND OTHER STRUCTURES PLACED NEAR NATIONAL GAS FACILITIES MUST MAINTAIN A MINIMUM CLEARANCE OF 12" FOR TRANSMISSION LINES AND 6" FOR DISTRIBUTION MAINS AND SERVICES. ANY METALLIC STRUCTURE PLACED NEAR NATIONAL GAS FACILITIES REQUIRES THE INSTALLATION OF AN ELECTRIC ISOLATION SYSTEM.
  - BACKFILL MATERIAL AROUND NATIONAL GAS FACILITIES SHALL BE CLEAN DIRT, FREE OF SHALE OR SHARP STONES. ROUND STONES SHALL BE NO LARGER THAN 1" IN DIAMETER. ACCEPTABLE BACKFILL MATERIALS ARE:
    - SAND (SAND IS THE PREFERRED MATERIAL WHERE WASHOUT IS NOT LIKELY).
    - STONE "SCREENINGS" (LIMESTONE) ALL PASSING:
      - 100% PASSING THE NO. 20 SIEVE.
      - 70% PASSING THE NO. 200 SIEVE.
    - GRAVEL (A MODIFIED SCREENING MIX) OF A 50/50 BLEND OF NO. 14 ROUND GRAVEL AND SAND.
    - NO. 14 ROUND GRAVEL.
  - FILL MATERIAL BEYOND THE SELECT BACKFILL SHALL BE FREE OF LOGS, STUMPS, STAKES, BRUSH OR ROCKS LARGER THAN 10 INCHES.
  - BACKFILL MATERIAL BENEATH AND AROUND ANY UNDERGROUND GAS FACILITY SHALL BE PROPERLY COMPACTED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES.
  - HEAVY LOADS AND EXCESSIVE FORCES SHALL NOT BE IMPOSED ON GAS FACILITIES AT ANY TIME DURING CONSTRUCTION OR BACKFILL OPERATIONS.
  - IF 10' OR #2 LOCATING WIRE IS BURIED ALONG SIDE MOST PLASTIC GAS MAINS AND SERVICES, HEAVY CABLES (PART OF SURROUND PROTECTION SYSTEMS) MAY ALSO BE FOUND NEAR SOME STEEL PIPE FACILITIES. IF ANY WIRE OR CABLE IS DAMAGED IT MUST BE IMMEDIATELY REPORTED TO NATIONAL FIRE.



**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 AREAS 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 MEDIUM 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'.

- 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.

**NYSDOT 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 SNOW 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 (WB-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 (WB-7) 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 423.12, 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.

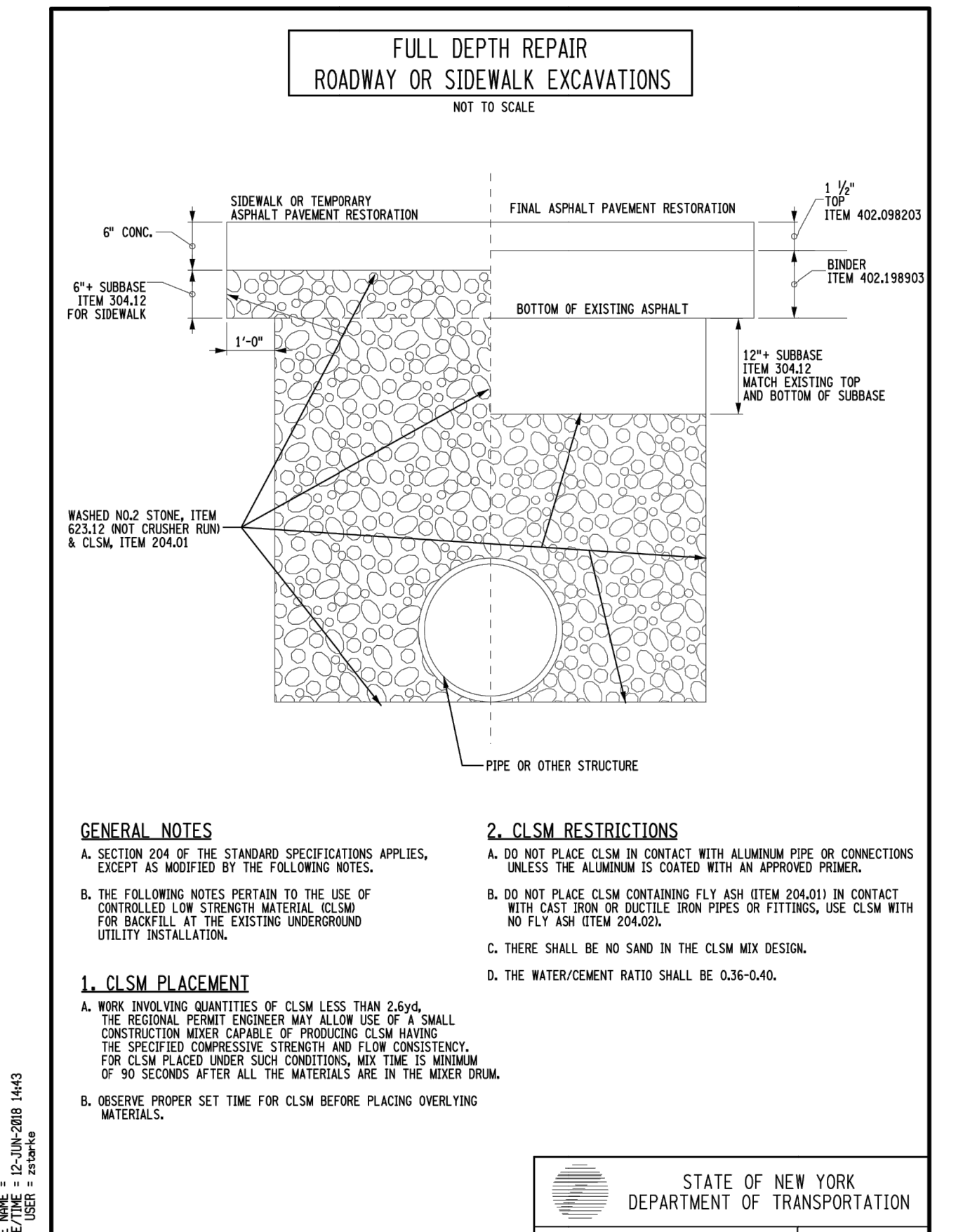
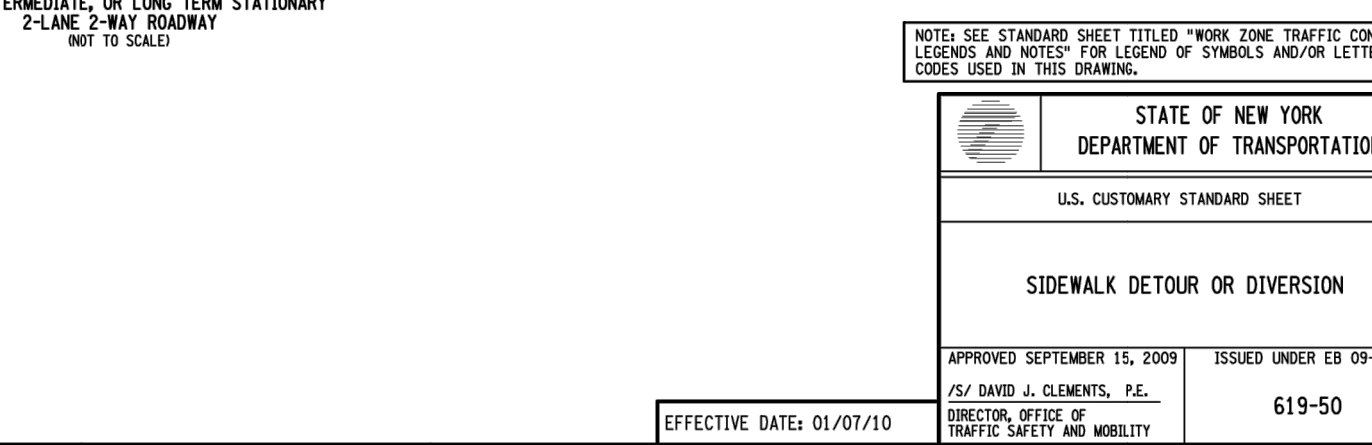
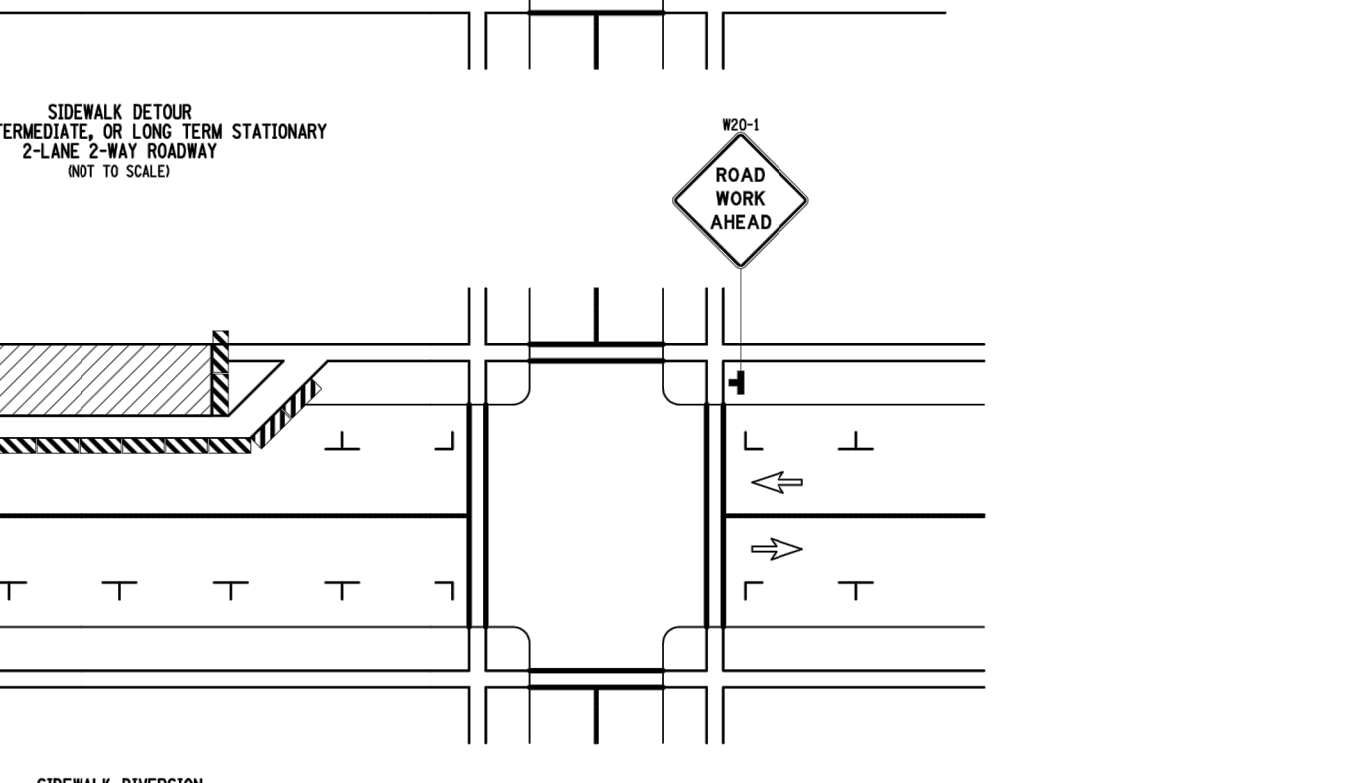
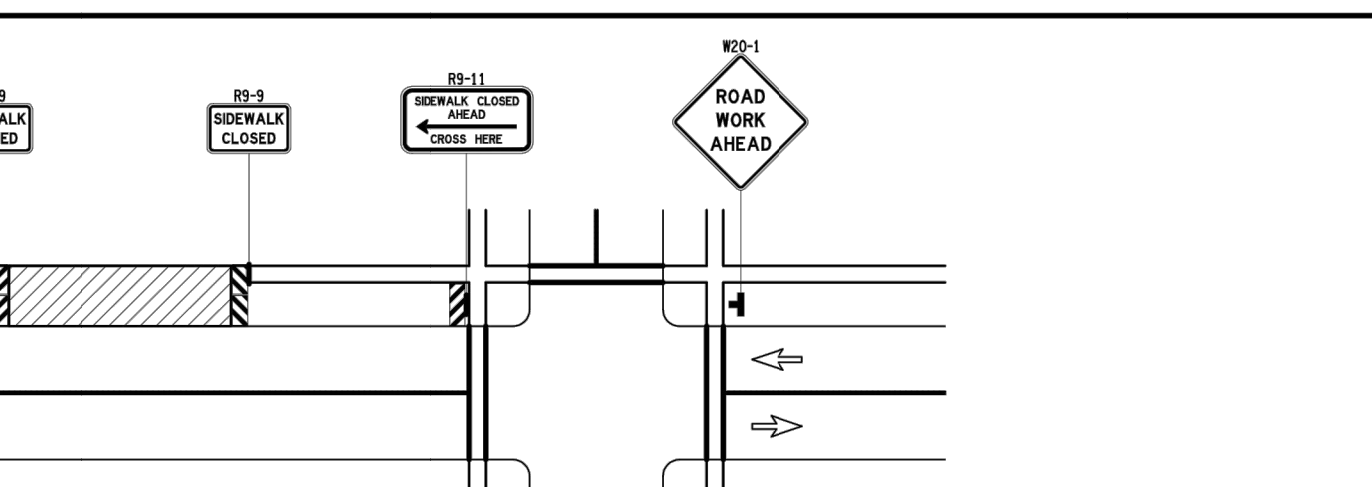
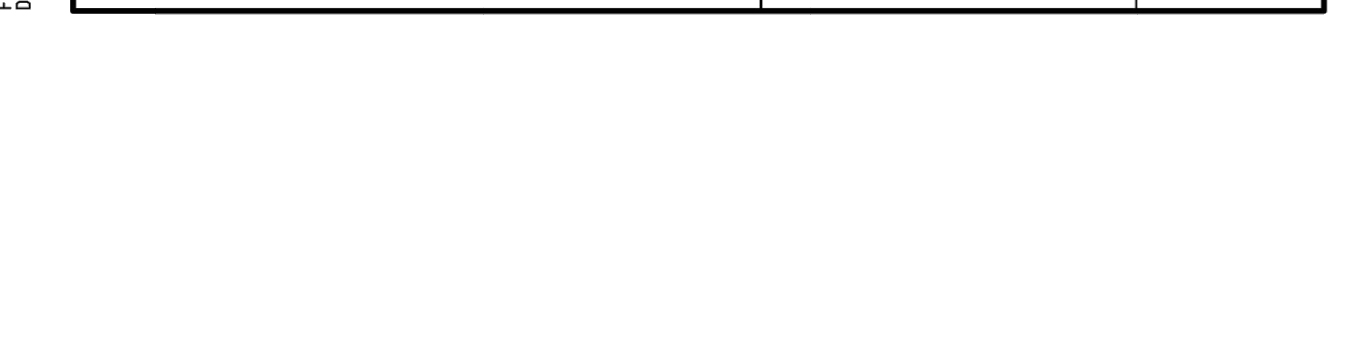
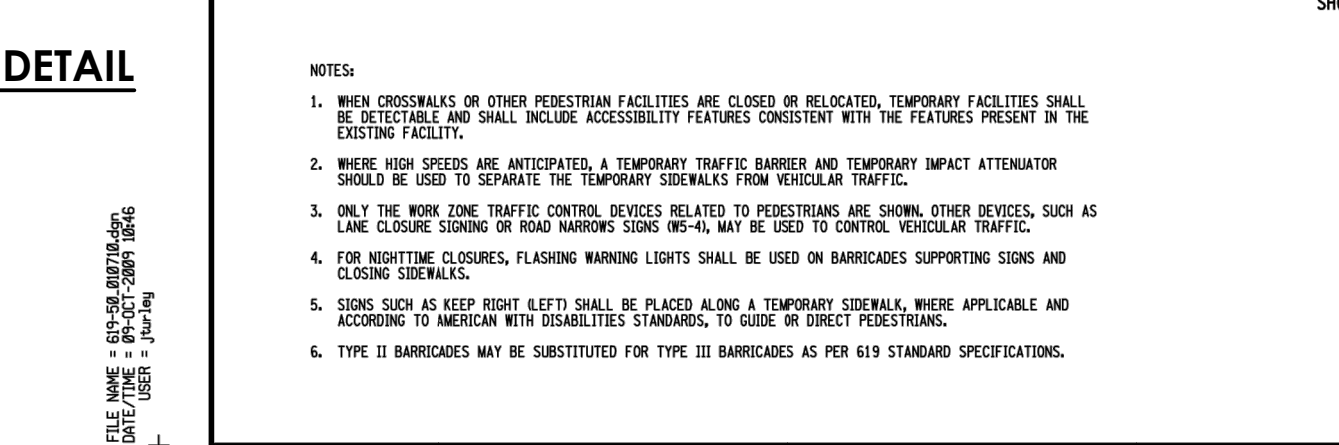
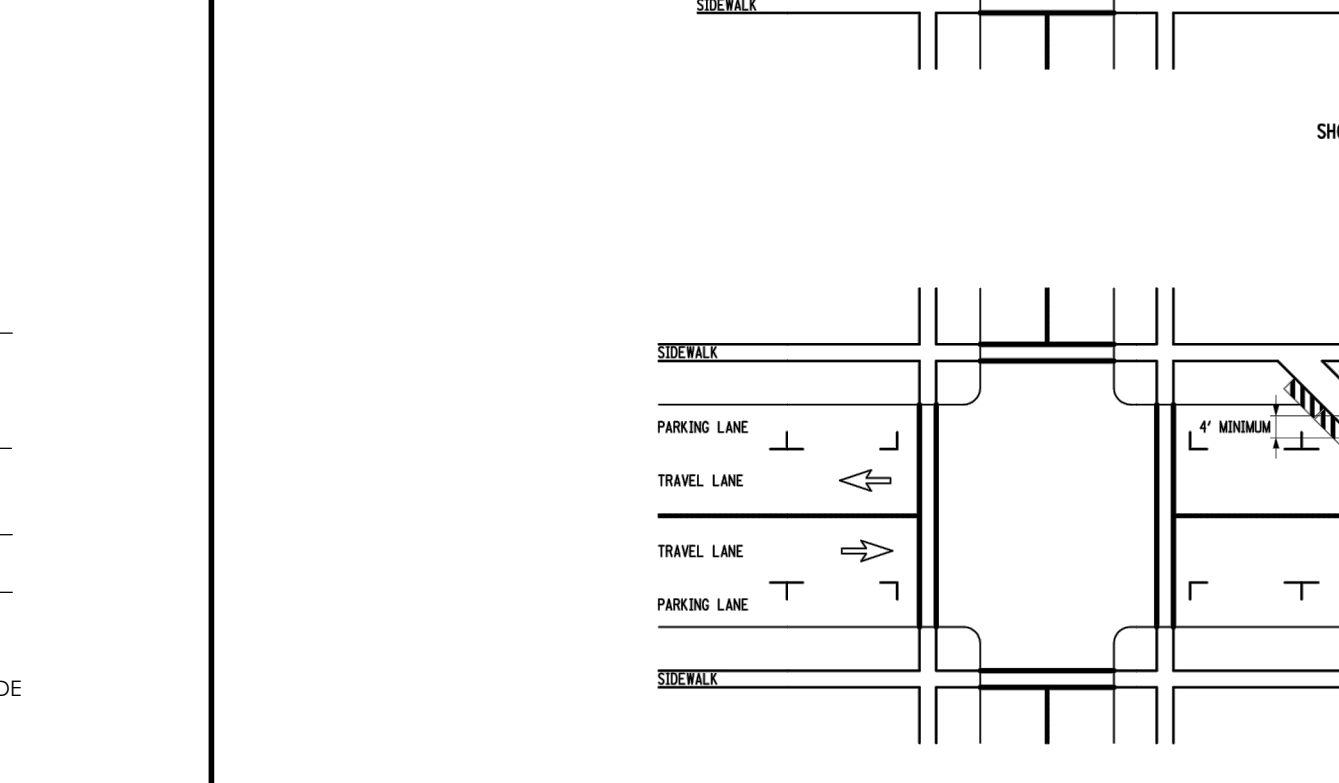
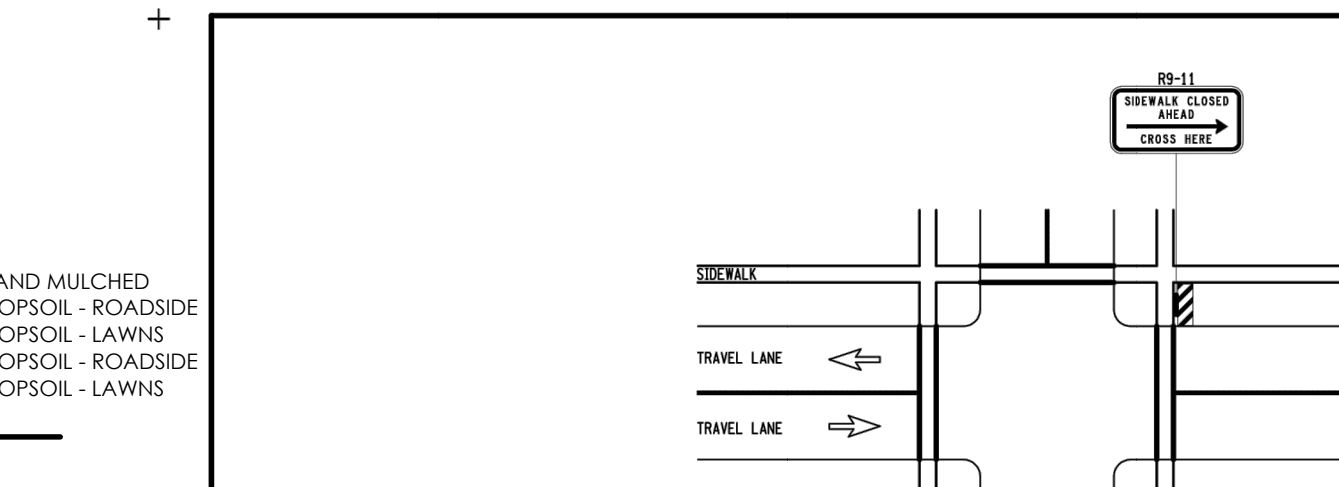
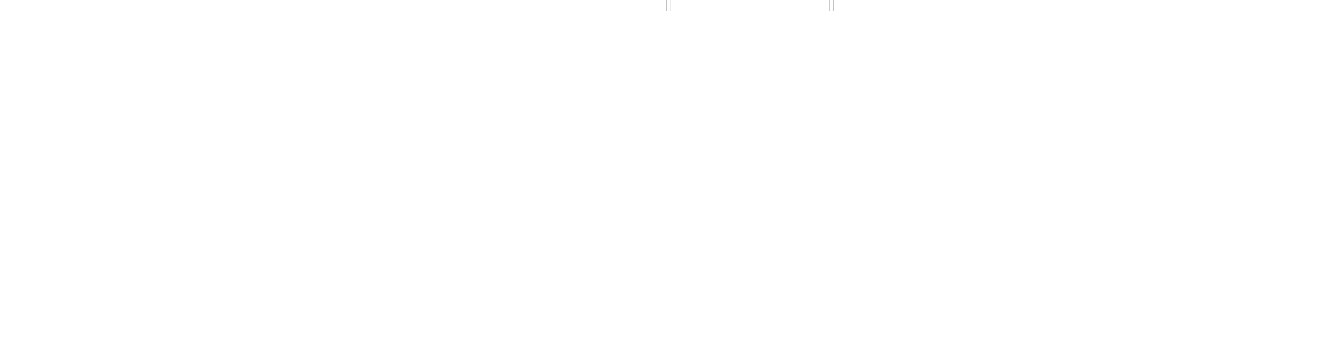
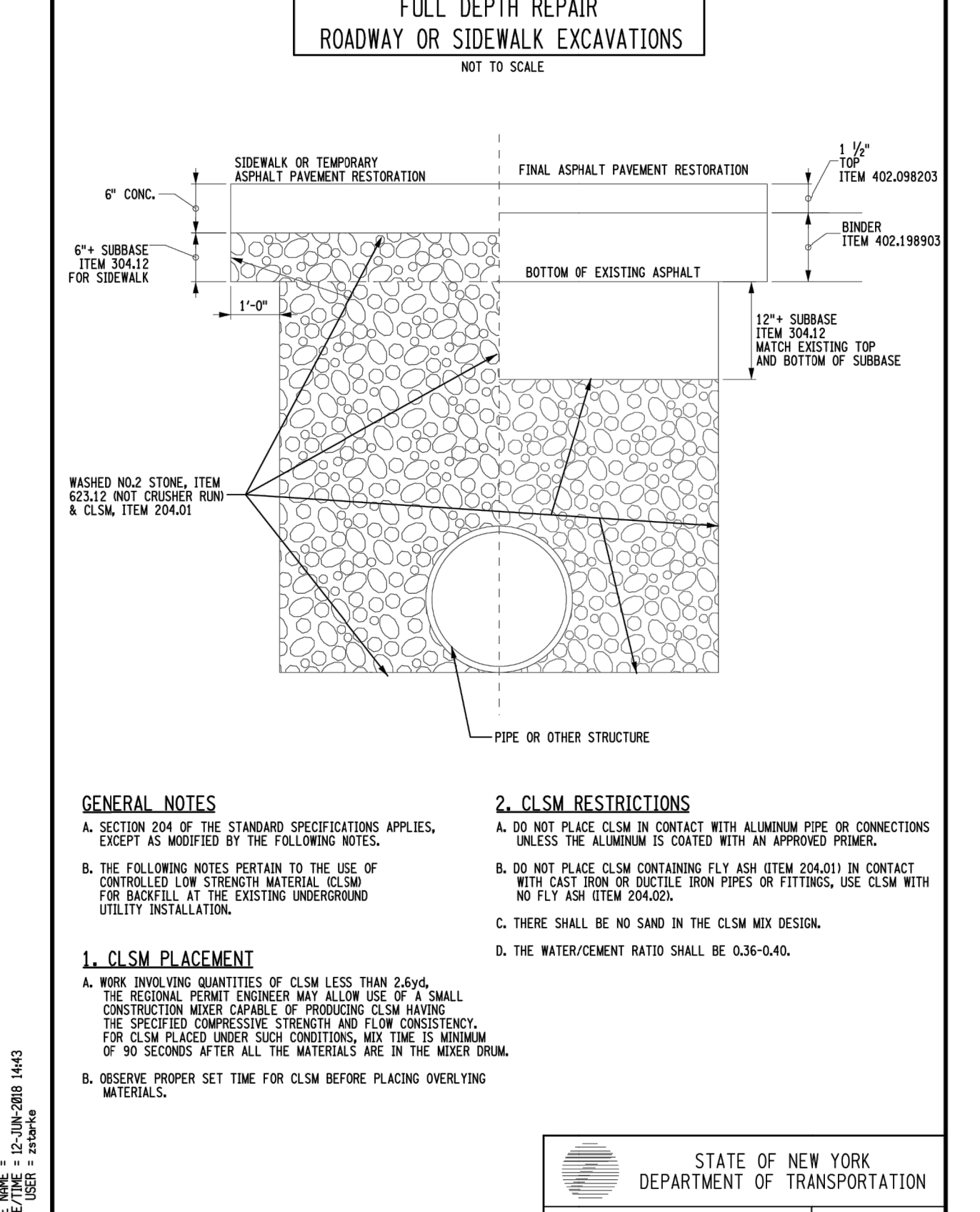
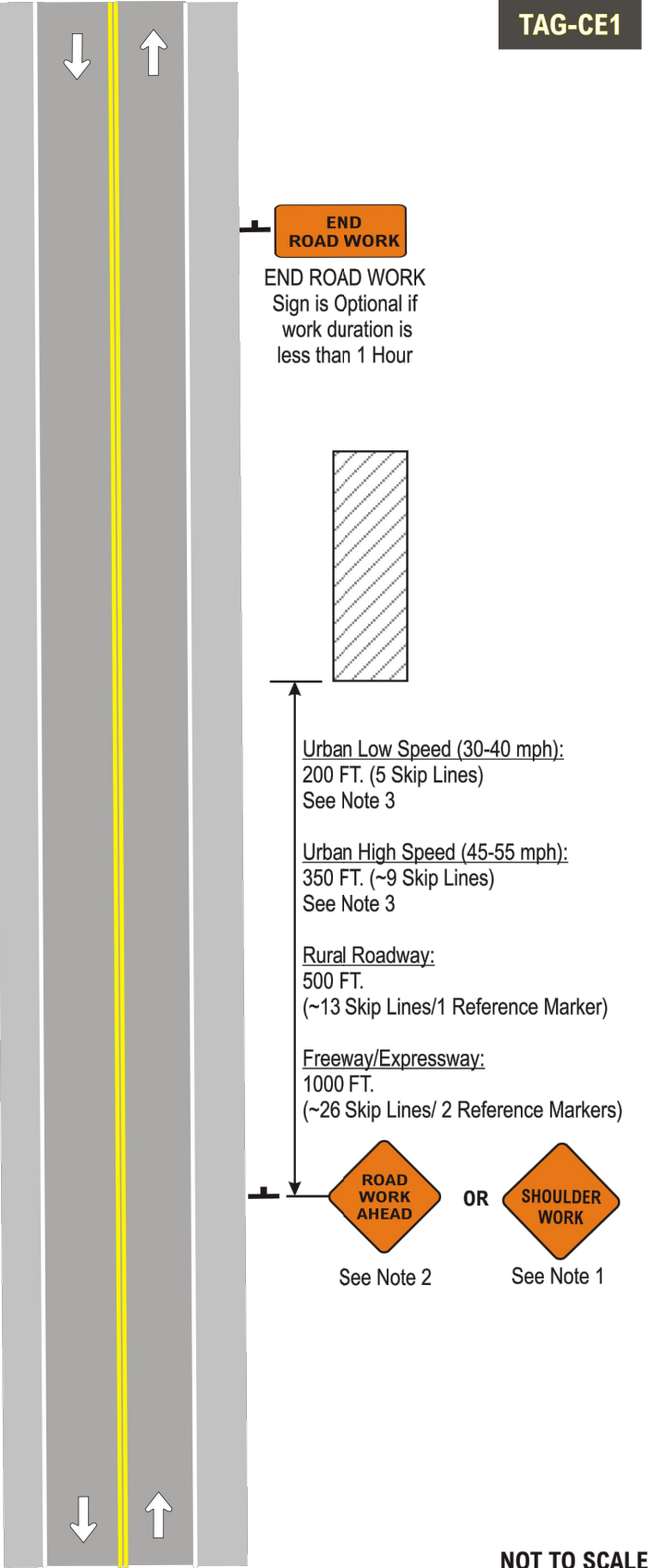
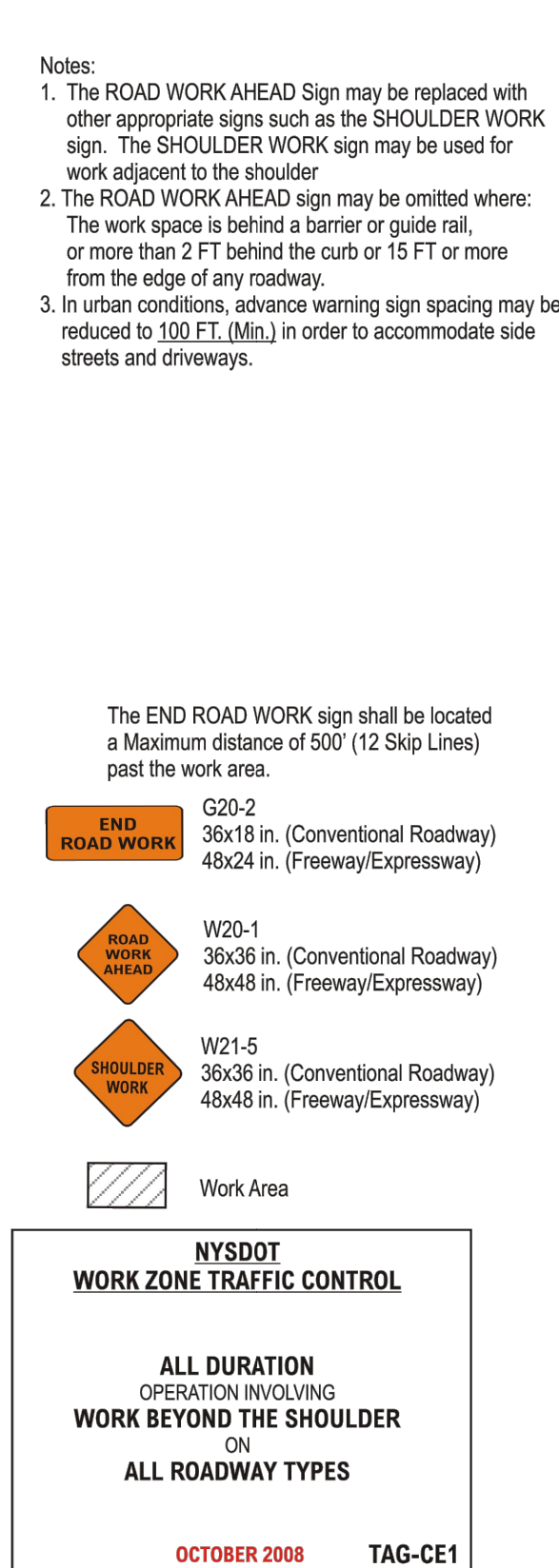
**EXCAVATION SUPPORT SYSTEM REQUIREMENTS:**

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.

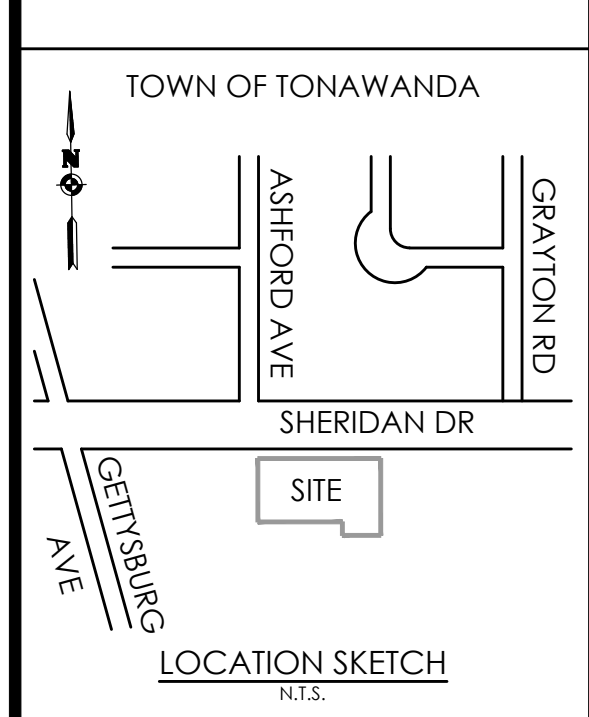
R-4 (03/15)

**ALL ROADWAYS**



**DRAWING INDEX**

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C 105	GRADING AND EROSION CONTROL PLAN
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C 201-204	DETAILS



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Designed by: Jon Daniels



**Revisions**

No.	Date	By	Description

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**ROYAL CAR WASH**

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State: New York

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NOT FOR CONSTRUCTION