# SITE PLAN

TO BE KNOWN AS

# GASLAND CORTLANDT - 2051 & 2053 EAST MAIN STREET

# FUELING STATION & CONVENIENCE STORE

**LOCATED AT** 

# U.S. ROUTE 6 A.K.A. EAST MAIN STREET TOWN OF CORTLANDT WESTCHESTER COUNTY, NEW YORK

**FEBRUARY 20, 2019** 

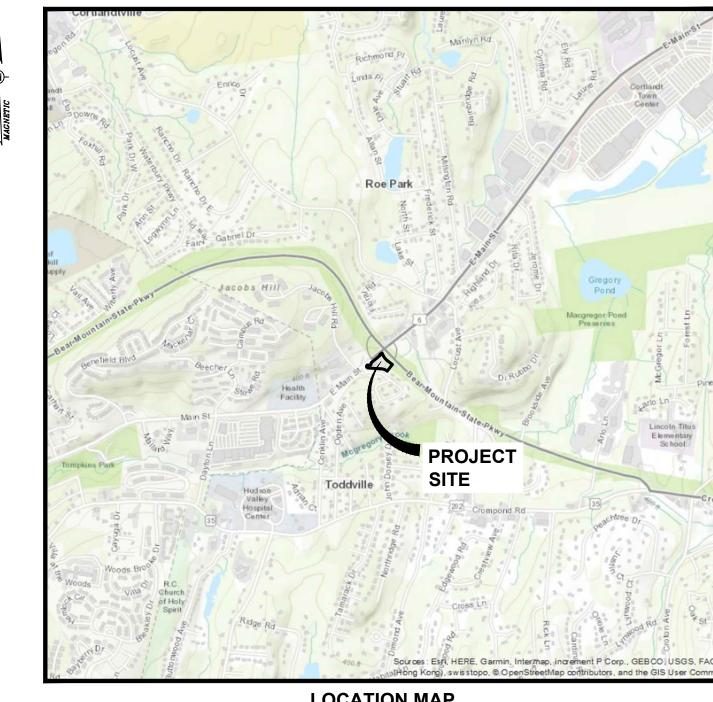
## **BULK TABLE:**

BOLK TABLE.						
HIGHWAY COMMERCIAL (HC) ZONING DISTRICT:						
ZONING REQUIREMENTS:	REQUIRED (HC)	EXISTING	PROPOSED			
MINIMUM LOT AREA	20,000 SF	44,431± S.F.	44,431± S.F.			
MINIMUM LOT WIDTH	100 FT	220 FT ±	220 FT ±			
MINIMUM YARDS FRONT:						
U.S. ROUTE 6	30 FT	22.0 FT ①	51.2 FT (CANOPY) 148.0 FT (BLDG)			
PARKWAY DRIVE	30 FT	30.7 FT	30.3 FT (BLDG)			
BEAR MOUNTAIN STATE PKV	WY EXT. 30 FT	2.6 FT ①	31.7 FT (BLDG)			
SIDE	30 FT	N/A	N/A			
REAR	30 FT	21.07 FT ①	31.5 FT			
MAXIMUM BUILDING COVERA	GE 20%	N/A	5.9%			
MINIMUM LANDSCAPE COVER	RAGE 30%	50%	51%			
LANDSCAPE BUFFER ③	50 FT <sup>3</sup>	(S) 30.4 FT. <sup>①</sup> (E) 21.07 FT. <sup>①</sup>				
MAXIMUM HEIGHT 2	.5 STORIES OR 35 FT	1 STORY/ < 35 FT	1 STORY/ < 35 FT			
REQUIREMENTS: 1 PER 300 1 PER EMPL	ON / CONVENIENCE STORE: SF PLUS LOYEE (4 EMPLOYEES)  + 4= 13 SPACES	N/A	11 SPACES PLUS 12 SPACES AT PUMPS			
			23 TOTAL SPACES PROVIDED			

## <u>NOTES:</u>

- EXISTING NON-CONFORMITY.
- 2) PER SECTION 307-29: OFF-STREET PARKING, GAS STATION WITH CONVENIENCE STORE REQUIRES 1 SPACE PER EMPLOYEE; PLUS 1 SPACE PER 300 SF GFA.
- 3) AN AREA VARIANCE OF 18.0 FT. IS REQUESTED FROM THE 50 FOOT REQUIRED LANDSCAPE BUFFER BETWEEN THE HC DISTRICT AND THE RESIDENTIAL ZONING DISTRICT LOCATED SOUTH
- OF THE PROPOSED PARKING AREA, PER SECTION 307.22.

INDEX OF DRAWINGS							
PAGE NO.	REV	SHEET NO.	DATE	DESCRIPTION			
1	0	G001	02/20/19	TITLE SHEET			
2	0	C100	02/15/19	MAP OF EXISTING CONDITIONS			
3	0	C120	02/20/19	DEMOLITION PLAN			
4	0	C130	02/20/19	SITE PLAN			
5	0	C140	02/20/19	GRADING & DRAINAGE PLAN			
6	0	C150	02/20/19	UTILITY PLAN			
7	0	C160	02/20/19	EROSION & SEDIMENT CONTROL PLAN PRIOR TO CONSTRUCTION			
8	0	C161	02/20/19	EROSION & SEDIMENT CONTROL PLAN DURING CONSTRUCTION			
9	0	C180	02/20/19	LANDSCAPE PLAN			
10	0	C190	02/20/19	PHOTOMETRIC LIGHTING PLAN			
11	0	C530	02/20/19	SITE DETAILS			
12	0	C531	02/20/19	SITE DETAILS			
13	0	C540	02/20/19	STORM SEWER DETAILS			
14	0	C550	02/20/19	EROSION & SEDIMENT CONTROL DETAILS			
15	0	C551	02/20/19	EROSION & SEDIMENT CONTROL NOTES			
16	0	C560	02/20/19	WATER DETAILS			
17	0	C570	02/20/19	SANITARY SEWER DETAILS			
18	0	C580	02/20/19	LANDSCAPE DETAILS AND NOTES			
19	0	HIPD1	02/20/19	HIGHWAY IMPROVEMENT PLAN SITE DETAILS			



LOCATION MAP SCALE: 1"=2000'

#### OWNER'S CERTIFICATION NOTE OWNER / APPLICANT SIGNATURE

THE UNDERSIGNED OWNER OR AUTHORIZED REPRESENTATIVE OF THE PROPERTY SHOWN HEREON STATES THAT HE HAS REVIEWED THIS MAP. THAT HE IS FAMILIAR WITH THIS MAP. ITS CONTENTS AND CONSENTS TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON.

OWNER OR AUTHORIZED REPRESENTATIVE

## **RECORD OWNER:**

MF POINTE LLC 55 AQUEDUCT ROAD GARRISON, NY 10524

## **DEVELOPER / APPLICANT:**

c/o MITCH NESHEIWAT GAS LAND PETROLEUM, INC. 785 BROADWAY KINGSTON, NY 12401

## SITE CIVIL ENGINEER AND LANDSCAPE ARCHITECT:

CHAZEN ENGINEERING, LAND SURVEYING & LANDSCAPE ARCHITECTURE CO., D.P.C. 21 FOX STREET, POUGHKEEPSIE, NY 12601 PHONE: (845) 454-3980

# TOWN OF CORTLANDT PLANNING BOARD TOWN OF CORTLANDT, NEW YORK

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE TOWN OF CORTLANDT, NEW YORK ON THE \_\_\_\_ DAY OF \_\_\_\_\_, \_\_ . SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION. ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS SITE PLAN AS APPROVED SHALL VOID THIS APPROVAL SIGNED THIS \_\_\_\_ DAY OF \_\_\_\_\_, \_\_\_\_ BY

CHAIRMAN, TOWN PLANNING BOARD

LOT 13 ACREAGE: 0.35 ACRES LOT 14 ACREAGE: 0.67 ACRES TOTAL PROJECT ACREAGE: 1.02 ACRES

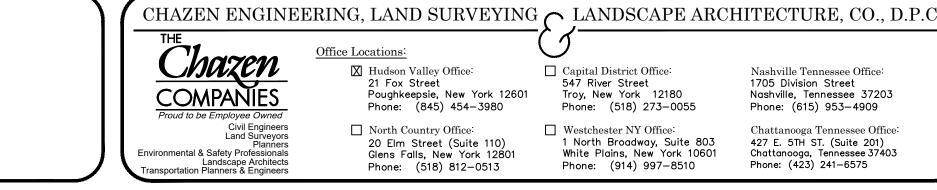
## TAX MAP INFORMATION:

TOWN OF CORTLANDT SECTION 23.20, BLOCK 3, LOT 13 & SECTION 23.20, BLOCK 3, LOT 14

**ISSUED FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION** 

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 ☐ Hudson Valley Office: 21 Fox Street ☐ North Country Office: 20 Elm Street (Suite 110) Glens Falls, New York 12801

Phone: (518) 812-0513

☐ Capital District Office: 547 River Street Trov. New York 12180 Poughkeepsie, New York 12601 Phone: (845) 454-3980 Phone: (518) 273-0055 ☐ Westchester NY Office: 1 North Broadway, Suite 803 White Plains, New York 10601

Phone: (914) 997-8510

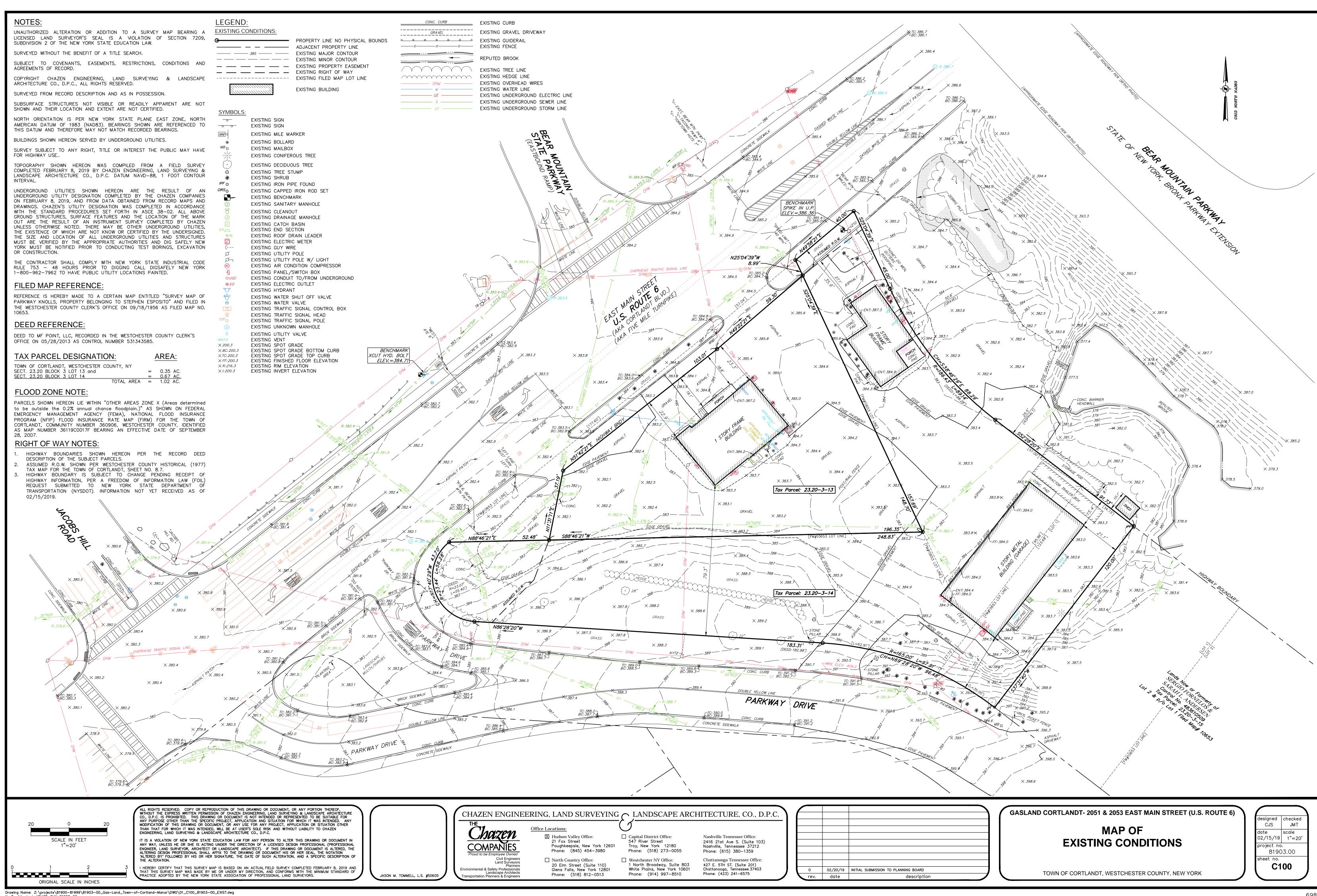
1705 Division Street Nashville, Tennessee 37203 Phone: (615) 953-4909 Chattanooga Tennessee Office: 427 E. 5TH ST. (Suite 201) Chattanooga, Tennessee 37403 Phone: (423) 241-6575

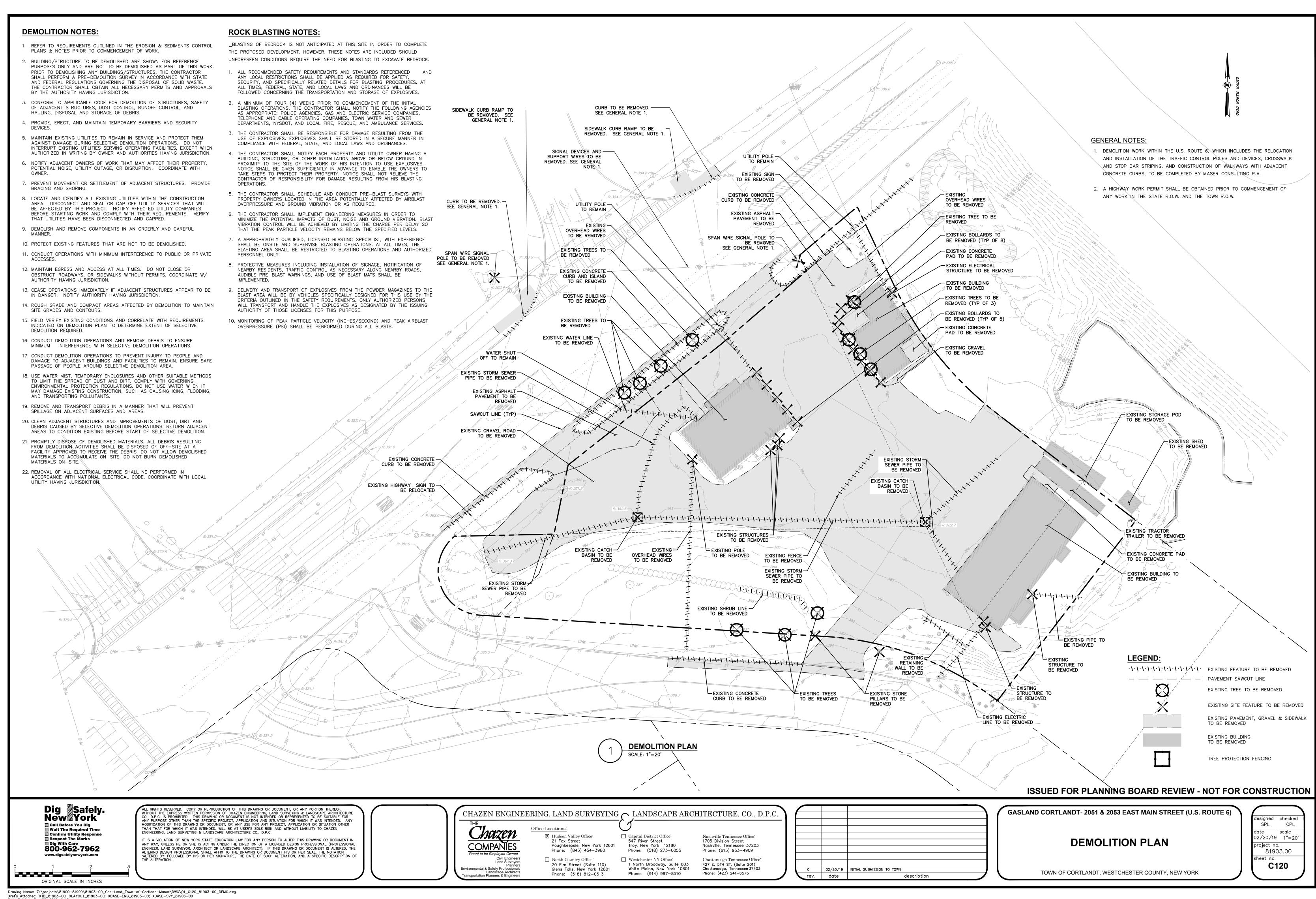
0 02/20/19 INITIAL SUBMISSION TO PLANNING BOARD

GASLAND CORTLANDT- 2051 & 2053 EAST MAIN STREET (U.S. ROUTE 6)

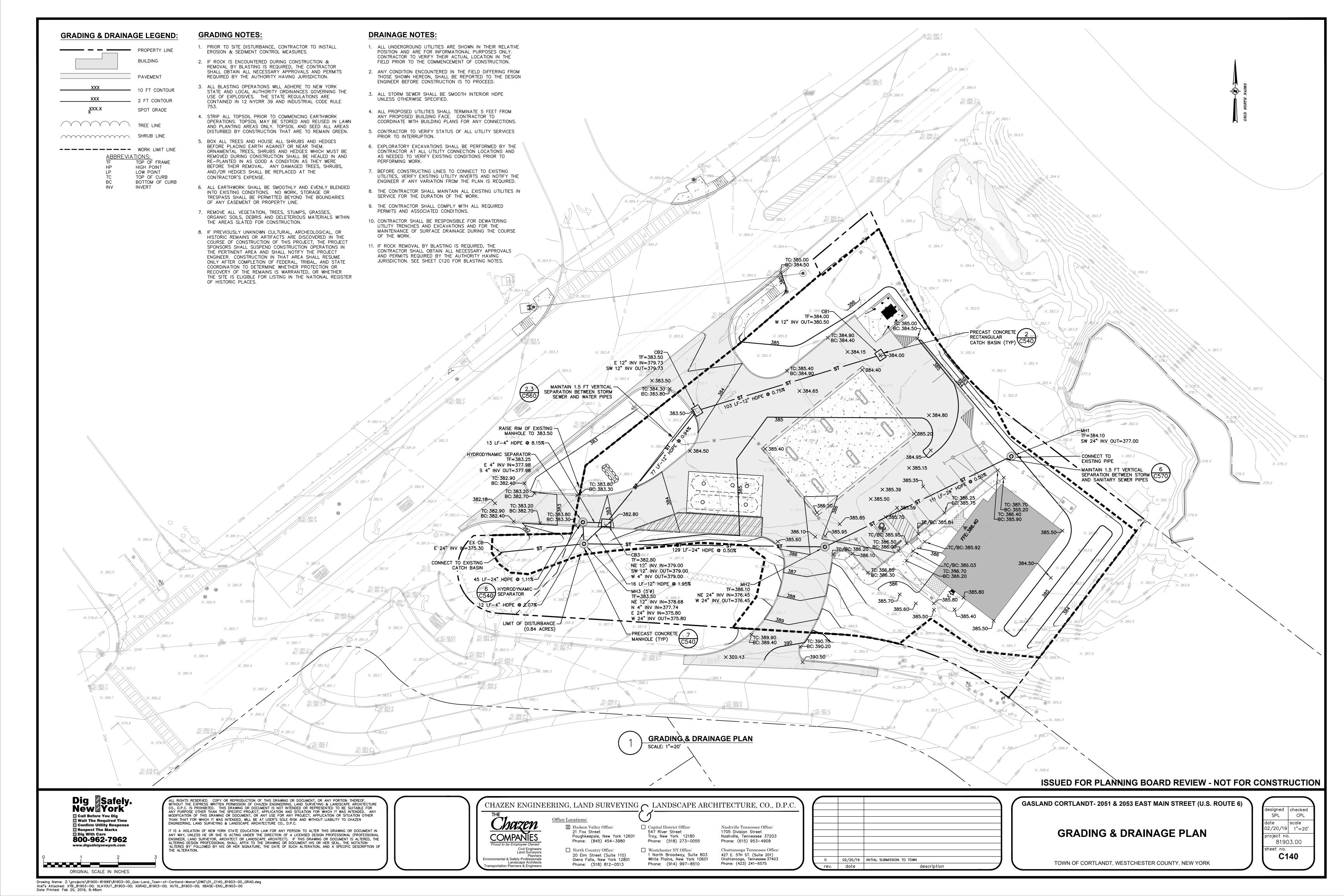
TITLE SHEET

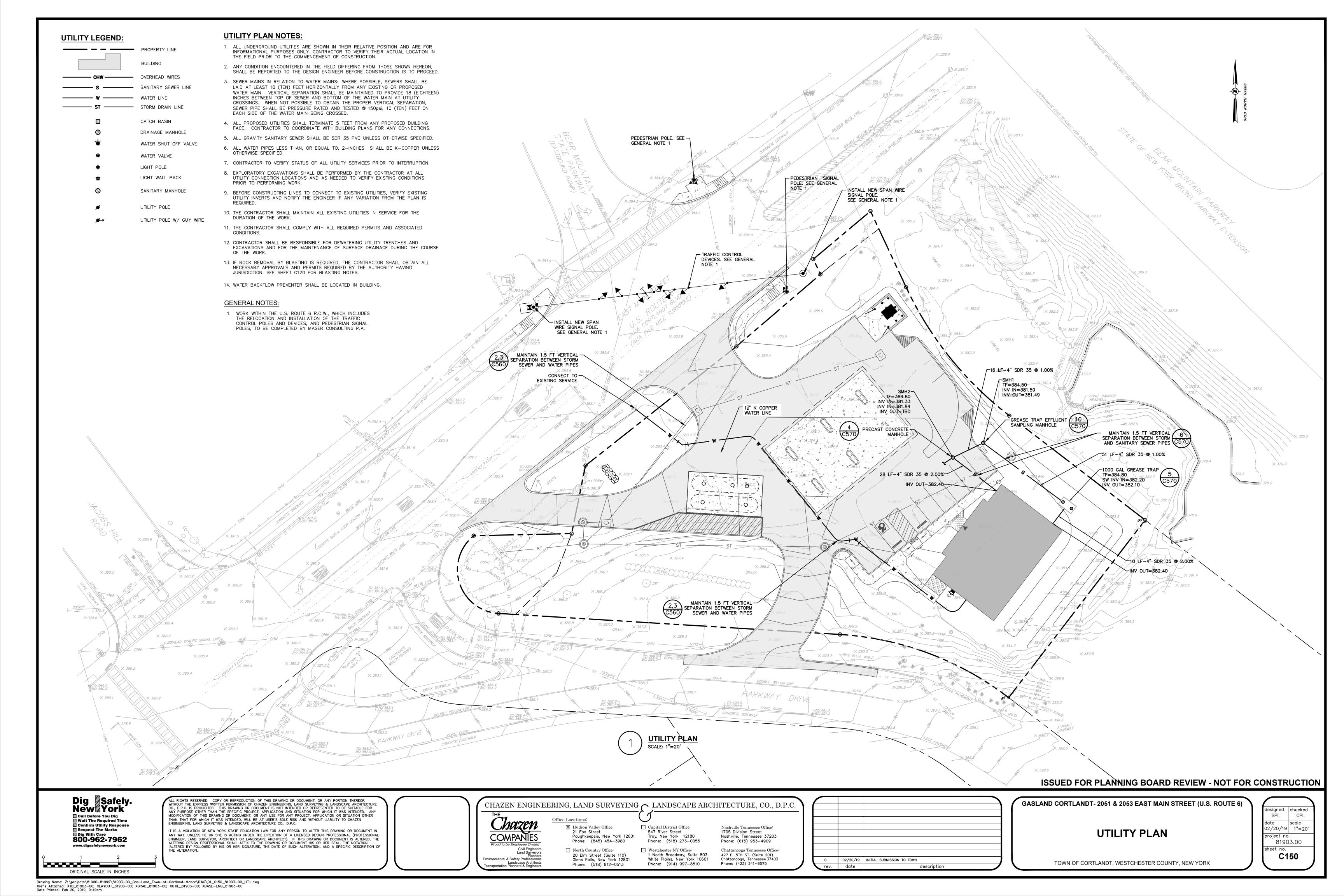
TOWN OF CORTLANDT, WESTCHESTER COUNTY, NEW YORK

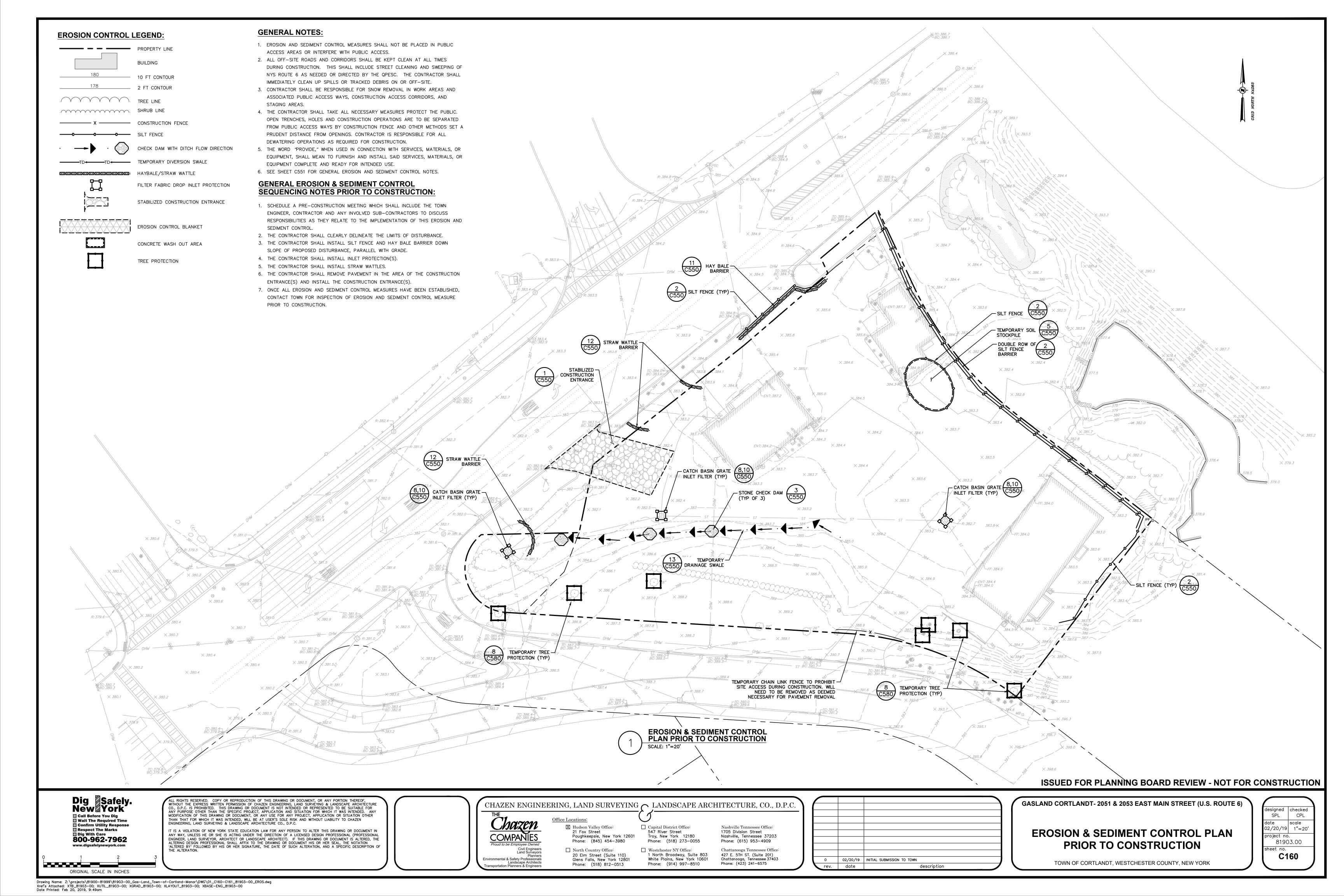


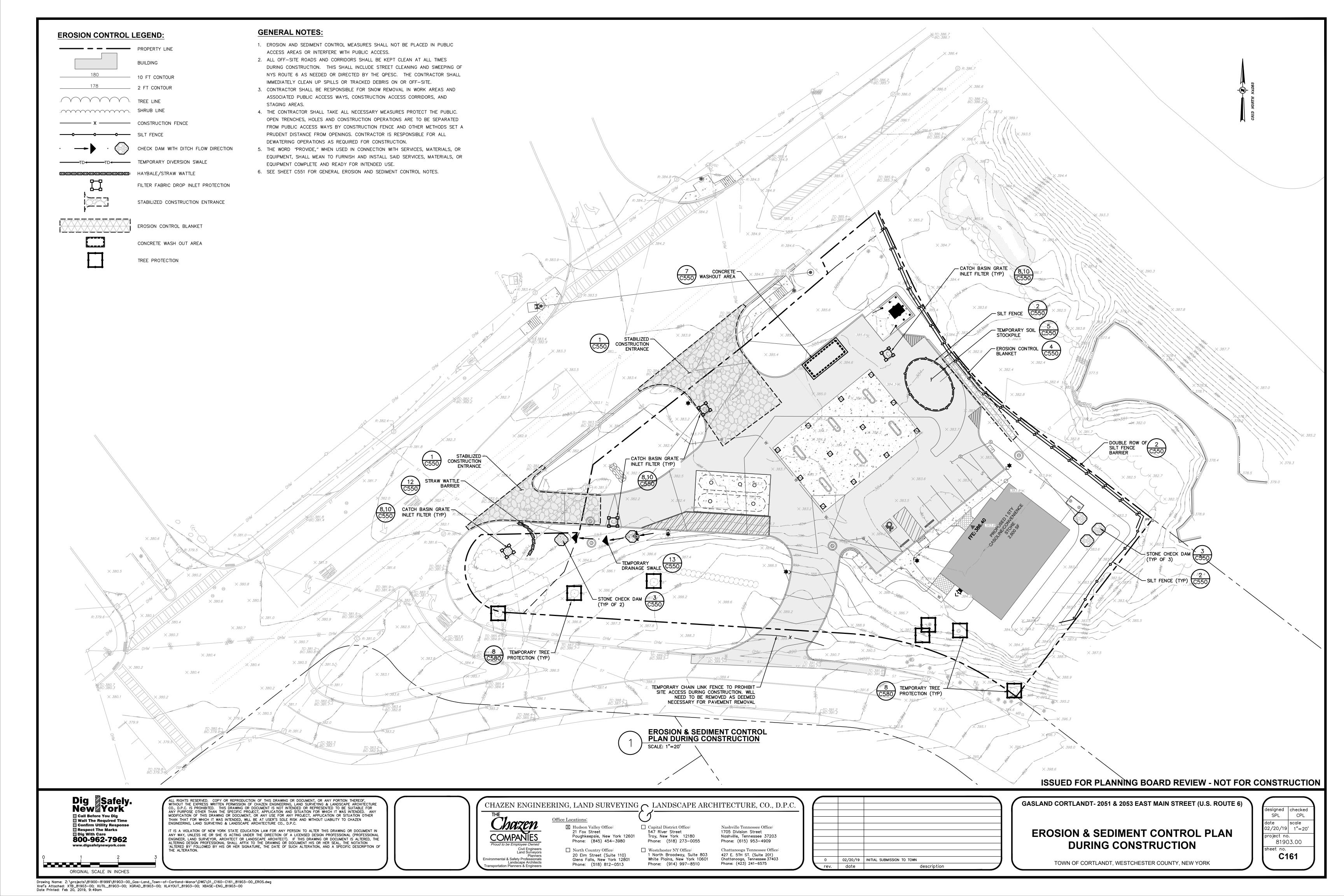


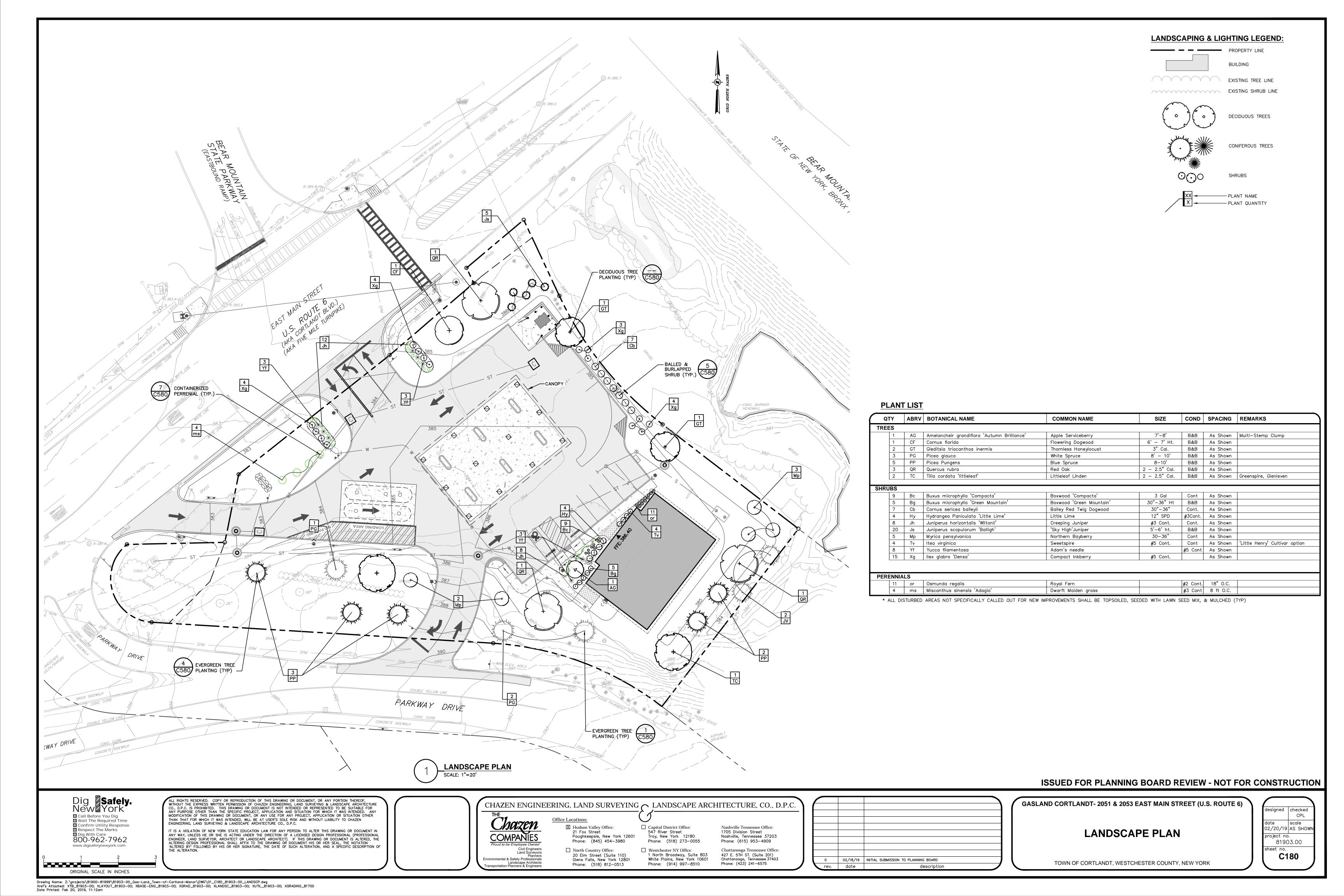
#### **SITE PLAN NOTES: SITE LEGEND: GENERAL CONSTRUCTION:** - PEDESTRIAN SIGNAL POLE 1. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE SEE GENERAL NOTE 1 PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS BUILDING DIMENSIONS TO BE TAKEN FROM ARCHITECTURAL BUILDING JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE \_ \_ <u>SETBACK LINE</u> \_ \_ \_ SETBACK LINE PLANS. NOTIFY THE ENGINEER OF ANY DEVIATION FROM CONDITIONS CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF A NEW YORK SHOWN ON THIS PLAN. STATE LICENSED LAND SURVEYOR. CURB RAMP RECONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD BUILDING SEE GENERAL NOTE 1 2. ALL PAVEMENT RESTORATION SHALL MEET AND MATCH EXISTING GRADES. LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS BUILT PLANS FOR ALL 3. ALL SAWCUT LINES SHALL BE PARALLEL AND CURVILINEAR TO EXISTING UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF PAVEMENT OR PROPOSED CURBING AND SHALL BE A CONSTANT DISTANCE OF 18" LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE MIN AWAY. OWNER AND THE ENGINEER AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADDITIONS TO THE SATISFACTION OF THE OWNER AND 4. ALL ARCHITECTURE IS SUBJECT TO PLANNING BOARD REVIEW. SIDEWALK THE ENGINEER BEFORE UTILITIES WILL BE ACCEPTED. 5. NOTIFY ENGINEER 48 HOURS PRIOR TO INITIALIZATION OF ANY WORK ON NO VEHICULAR TRAFFIC OF ANY SORT SHALL BE PERMITTED ON THE ———— CHAIN LINK FENCE SURFACE OF SUBBASE COURSE MATERIAL ONCE IT HAS BEEN FINE 6. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT GRADED. COMPACTED, AND IS READY FOR PAVING. SUBBASE MATERIAL VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SO PREPARED FOR PAVING SHALL BE PAVED WITHIN THREE DAYS OF SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR REVIEW FROM THE CONCRETE SURFACE SUBBASE MATERIAL AND THE VARIOUS ASPHALT CONCRETE MATERIALS 7. CONTRACTOR IS RESPONSIBLE FOR EMPLOYING AND MAINTAINING ALL ROAD LINING & STRIPING CALLED FOR IN THESE DRAWINGS SHALL CONFORM WITH THE TRAFFIC CONTROL AND SAFETY MEASURES DURING CONSTRUCTION. REFERENCED SECTION OF THE NEW YORK STATE DEPARTMENT OF CROSSWALK STRIPING TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND 8. CONTRACTOR IS RESPONSIBLE FOR PROPERLY & SAFELY MAINTAINING SEE GENERAL NOTE 1 MATERIALS, DATED MAY 1, 2008. CONSTRUCTION SHALL BE AS SIGN AREA BETWEEN ALL ADJOINING PROPERTIES. FURTHER SET FORTH IN THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS. 2 POSTED SIGN - NEW SPAN WIRE SIGNAL POLE 9. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE SEE GENERAL NOTE 1 SITE PROPERTY LINES OR PUBLIC RIGHT-OF-WAY. PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD BOLLARD AND STRIKE-OFF USING A SELF-PROPELLED PAVING MACHINE, WITH 10. ALL EXISTING LAWN AREA, CURBING, PAVING, SIDEWALKS, CULVERTS OR VIBRATING SCREED. PLACEMENT IN INACCESSIBLE AND SMALL AREAS OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED BY TRENCHING OR PARKING COUNT REFUSE ENCLOSURE MAY BE BY HAND. EXCAVATION OPERATIONS SHALL BE REPLACED OR REPAIRED TO A CONDITION EQUAL TO EXISTING, AS DESCRIBED IN CONTRACT DOCUMENTS PROVIDE JOINTS BETWEEN OLD AND NEW PAVEMENTS OR BETWEEN OR AS ORDERED BY ENGINEER (AOBE). MAILBOXES, SIGN POSTS, ETC SUCCESSIVE DAY'S WORK. SHALL BE PROTECTED OR REMOVED AND REPLACED EXACTLY AS THEY PAVEMENT -HIPDT PAVEMENT TRANSITION CANOPY OVER SIX PUMP ISLANDS WERE BEFORE BEING DISTURBED. REMOVE AND REPLACE AFFECTED TACK COAT WHEN SPECIFIED OR CALLED OUT ON THE DRAWINGS OR SEE SHEET C190 CURBING AND SIDEWALK TO NEAREST JOINT. REMOVE PAVEMENT AND REQUIRED BY THE REFERENCED SPECIFICATION SHALL CONFORM WITH REPLACE TO SAW CUT LINE. SAW CUT IN STRAIGHT LINE TO POINT (11) (2531) THE FOLLOWING: SEE GENERAL NOTE 1 NEEDED TO BLEND GRADE, REMOVE LAWN AND REPLACE TO MINIMUM STOP SIGN -A. TACK COAT SHALL MEET THE MATERIAL REQUIREMENTS OF 702-90 PUMP ISLAND UNDER LIMIT OF EXCAVATION. ASPHALT EMULSION FOR TACK COAT OF THE NEW YORK STATE CANOPY (TYP OF 6) NEW SPAN WIRE SIGNAL POLE -DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR 11. THE HOURS OF OPERATION OF THE CONVENIENCE STORE AND GAS SEE GENERAL NOTE 1 CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008, SHALL BE STATION SHALL BE LIMITED TO XXXX HOURS. APPLIED IN ACCORDANCE WITH SECTION 407 - TACK COAT SHALL - CANOPY LIGHT (TYP) BE IN ACCORDANCE WITH THOSE SPECIFICATIONS AND AS NYSDOT CONCRETE SIDEWALK ---12. WORK WITHIN THE U.S. ROUTE 6, WHICH INCLUDES THE RELOCATION AND SEE SHEET C190 OTHERWISE PROVIDED FOR IN THESE DRAWINGS. CURB RAMP RECONSTRUCTION INSTALLATION OF THE TRAFFIC CONTROL POLES AND DEVICES. B. REMOVE LOOSE AND FOREIGN MATERIAL FROM ASPHALT SURFACE PAVEMENT SECTION SEE GENERAL NOTE 1 CROSSWALK AND STOP BAR STRIPING, AND CONSTRUCTION OF BEFORE PAVING NEXT COURSE. USE POWER BROOMS, BLOWERS OR WALKWAYS, TO BE COMPLETED BY MASER CONSULTING P.A. . APPLY TACK COAT TO ASPHALT PAVEMENT SURFACES & AND CURB RAMP SURFACES OF CURBS, GUTTERS, MANHOLES, AND OTHER 13. A HIGHWAY WORK PERMIT SHALL BE OBTAINED PRIOR TO COMMENCEMENT SEE GENERAL STRUCTURES PROJECTING INTO OR ABUTTING PAVEMENT. DRY TO A OF ANY WORK IN THE STATE AND TOWN R.O.W. CONCRETE CURB "TACKY" CONSISTENCY BEFORE PAVING. SEE GENERAL NOTE 2-D. TACK COAT ENTIRE VERTICAL SURFACE OF ABUTTING EXISTING (TYP) 14. LOTS 23.20-3-13 AND 23.20-3-14 TO BE CONSOLIDATED. **DIRECTIONAL ARROW-**AFTER COMPLETION OF PAVING AND SURFACING OPERATIONS, CLEAN GENERAL NOTES: SURFACES OF EXCESS OR SPILLED ASPHALT, GRAVEL OR STONE END NYSDOT MATERIALS TO THE SATISFACTION OF THE ENGINEER. 1. WORK WITHIN THE U.S. ROUTE 6, WHICH INCLUDES THE CURB / START - PAVEMENT RELOCATION AND INSTALLATION OF THE TRAFFIC CONTROL NYSDOT R.O.W. -ON-SITE CURB C531 **STRIPING:** STRIPING (TYP) POLES AND DEVICES, CROSSWALK AND STOP BAR PAVEMENT SECTION STRIPE PAVEMENT AS INDICATED ON THE PLANS AND/OR IN STRIPING, AND CONSTRUCTION OF WALKWAYS, TO BE ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL TRANSITION NYSDOT PAVEMENT COMPLETED BY MASER CONSULTING P.A. CONCRETE CURB SECTION AND ON-SITE PAVEMENT - AIR PUMP ON CONCRETE PAD FOR C530 CUSTOMER USE 2. A HIGHWAY WORK PERMIT SHALL BE OBTAINED PRIOR TO 2. COLOR: DRIVE LANE DIVIDERS - WHITE OR AOBE CUSTOMER USE COMMENCEMENT OF ANY WORK IN THE STATE AND TOWN NO PARKING ZONE WARNINGS - WHITE OR AOBE TRANSITION NYSDOT CURB-PARKING DIVIDERS - WHITE OR AOBE AND ON-SITE CURB WALKING LINES - WHITE OR AOBE - CAST IN PLACE CONCRETE / 12 HANDICAP PARKING LINES & SYMBOL - BLUE 3. TAX LOTS SECT 23.20-BLK 3-LOT 13 AND SECT SITE SIGN WITH-CURB AT SIDEWALK (TYP) 23.20-BLK 3-LOT 14 TO BE CONSOLIDATED. GASOLINE PRICING WITH STONE WALL - CONCRETE SIDEWALK (TYP) C530 CONCRETE END NYSDOT CURB / START ON-SITE CURB 🛕 DIRECTIONAL ARROW -PÉDESTRIAN RAMP-SECTION - DROP 4 NYSDOT PAVEMENT -CURB (TYP) 5 Q Ô C530 **PAVEMENT** STALL STRIPING NYSDOT CONCRETE -TRANSITION NYSDOT -CONNECT TO EXISTING CURB PAVEMENT SECTION END NYSDOT CURB ÁND ON-SITE / START ON-SITE PAVEMENT SECTION RELOCATED HIGHWAY SIGN OVERHANG TWO (2) 12,000 GALLON = GASOLINE FUELING TANKS (BY OTHERS) UNDER PEDESTRIAN 13 C530 CONCRÉTE PAD PAINTED STRIPING FOR -GAS DELIVERY VEHICLE ) wheel stop CAST IN PLACE -CONCRETE -BLUE FLAGSTONE 7 CONNECT TO -PARKWAY DRIVE EXISTING CURB CONNECT TO CONCRETE SIDEWALK EXISTING CURB PAVEMENT EXPANSION JOINT BETWEEN-TRANSITION BLUE FLAGSTONE AND B DIRECTIONAL ARROW -SIDEWALK \* - WALL MOUNTED LIGHT SEE SHEET C180 SLATE OVER CONCRETE SEE GENERAL NOTE 2 PAVEMENT FOR OUTDOOR C530 ICE MACHINE AND L.P. GAS TANK STORAGE C531 **ISSUED FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION** Dig Safely. New York ALL RIGHTS RESERVED. COPY OR REPRODUCTION OF THIS DRAWING OR DOCUMENT, OR ANY PORTION THEREOF, WITHOUT THE EXPRESS WRITTEN PERMISSION OF CHAZEN ENGINEERING, LAND SURVEYING & LANDSCAPE ARCHITECTURE CO., D.P.C. IS PROHIBITED. THIS DRAWING OR DOCUMENT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR ANY PURPOSE OTHER THAN THE SPECIFIC PROJECT, APPLICATION AND SITUATION FOR WHICH IT WAS INTENDED. ANY MODIFICATION OF THIS DRAWING OR DOCUMENT, OR ANY USE FOR ANY PROJECT, APPLICATION OR SITUATION OTHER GASLAND CORTLANDT- 2051 & 2053 EAST MAIN STREET (U.S. ROUTE 6) CHAZEN ENGINEERING, LAND SURVEYING LANDSCAPE ARCHITECTURE, CO., D.P.C esigned checked ☐ Call Before You Dig ☐ Wait The Required Time ☐ Confirm Utility Response SPL | CPL THAN THAT FOR WHICH IT WAS INTENDED, WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY TO CHAZEN ENGINEERING, LAND SURVEYING & LANDSCAPE ARCHITECTURE CO., D.P.C. scale Nashville Tennessee Office: ☐ Hudson Valley Office: ☐ Capital District Office: 02/20/19 1"=20' Respect The Marks IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DRAWING OR DOCUMENT IN **SITE PLAN** 21 Fox Street 547 River Street 1705 Division Street ANY WAY, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED DESIGN PROFESSIONAL (PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT OR LANDSCAPE ARCHITECT). 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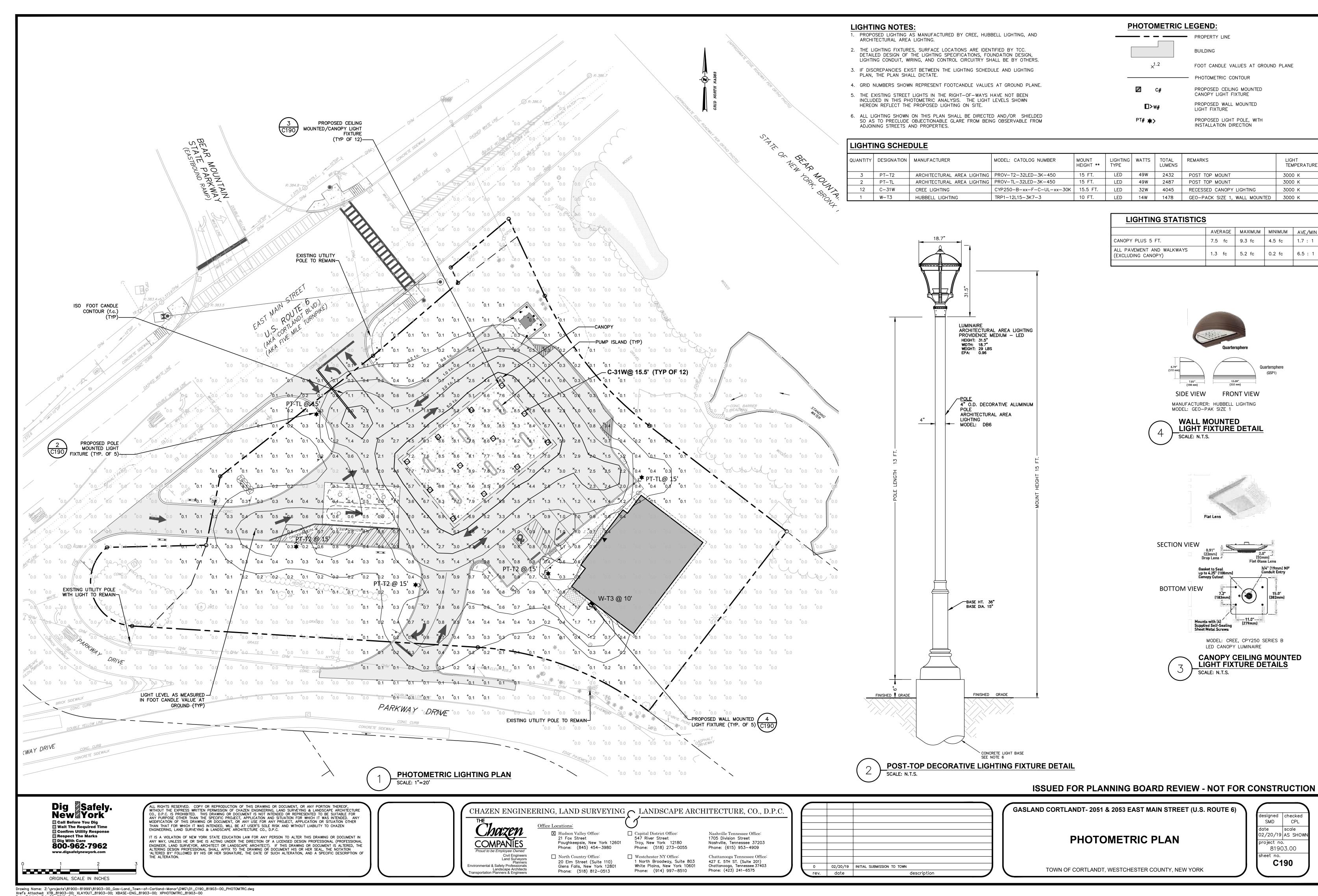


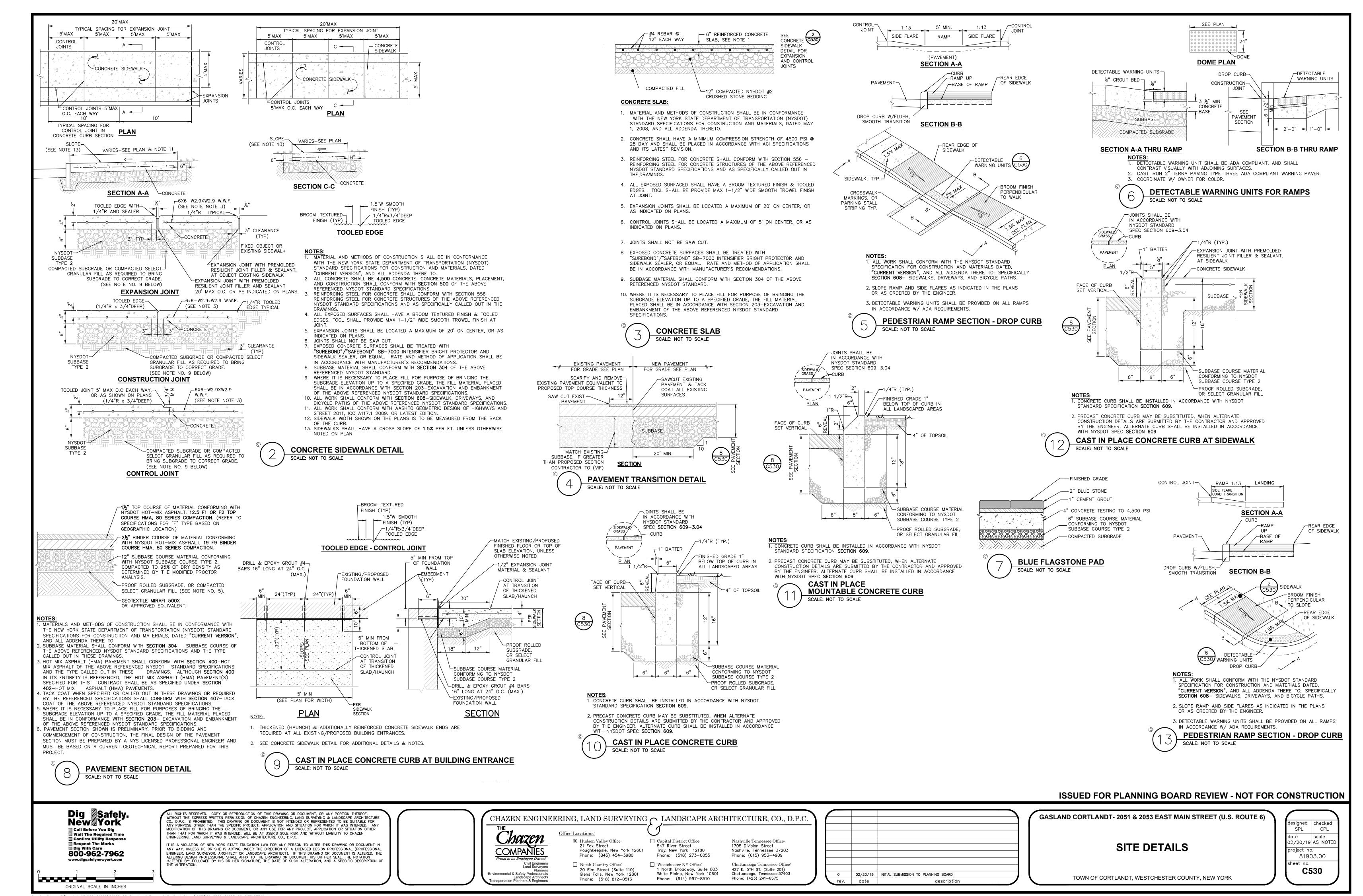


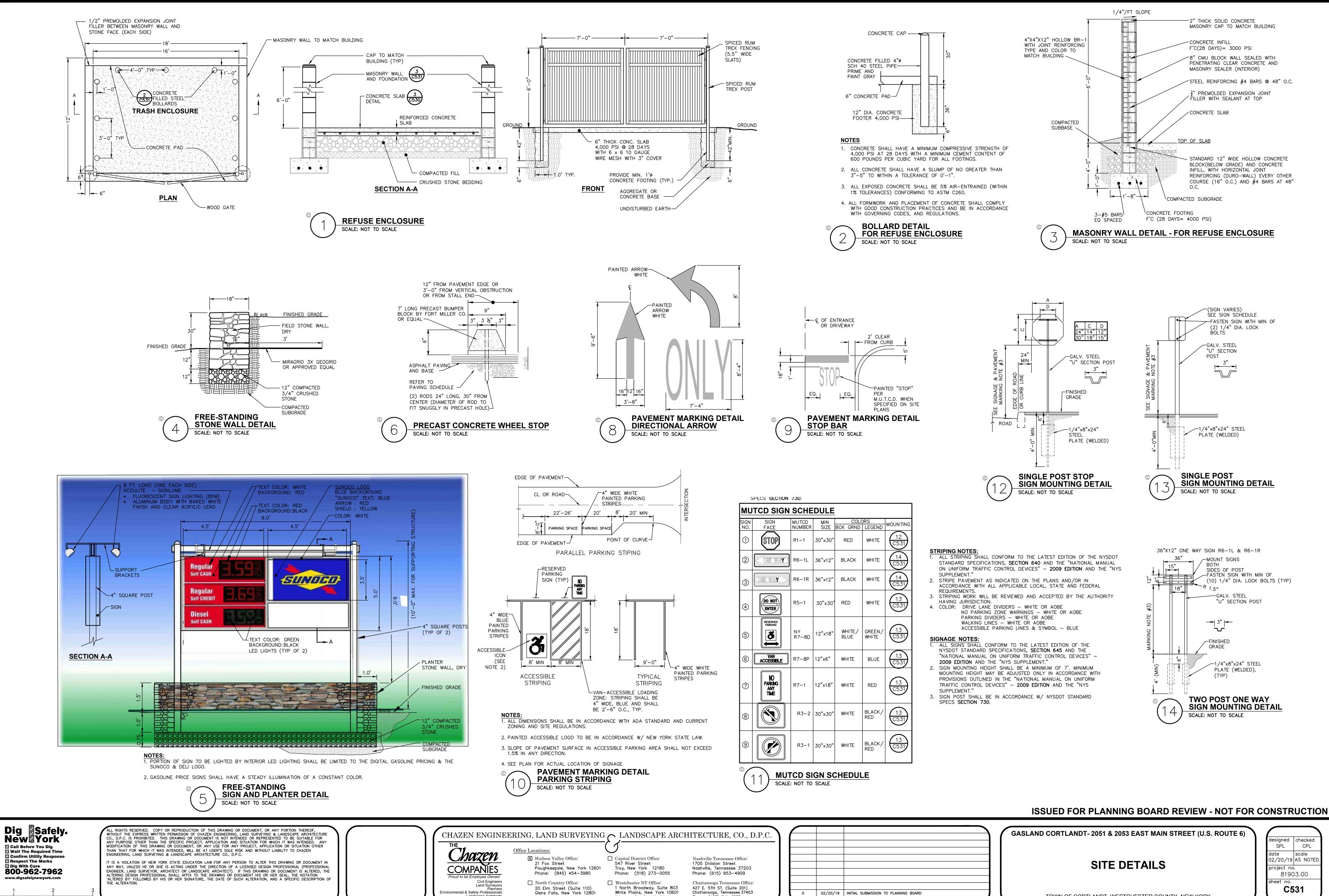












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Landscape Architects ation Planners & Engineers

02/20/19 | INITIAL SUBMISSION TO PLANNING BOARD

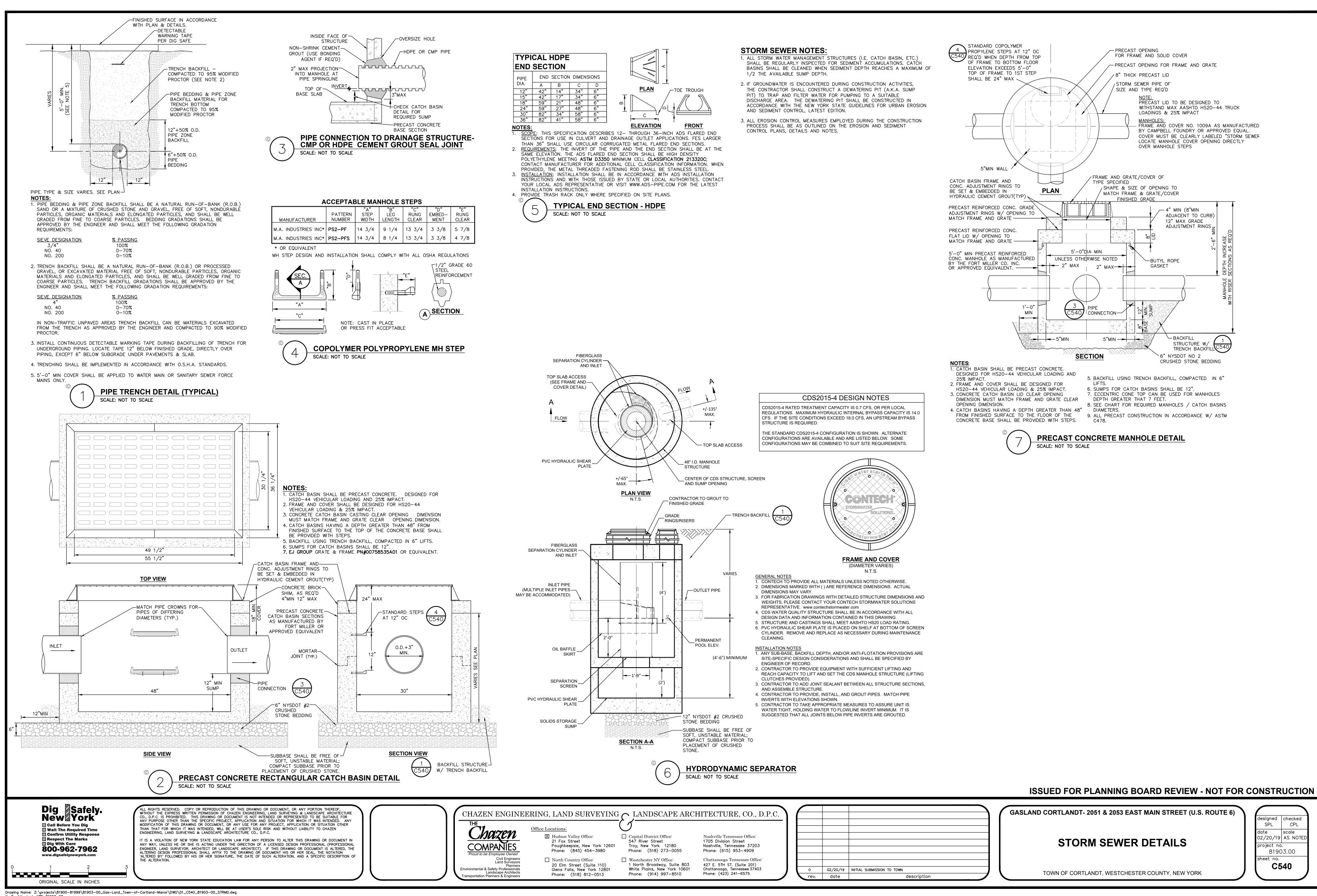
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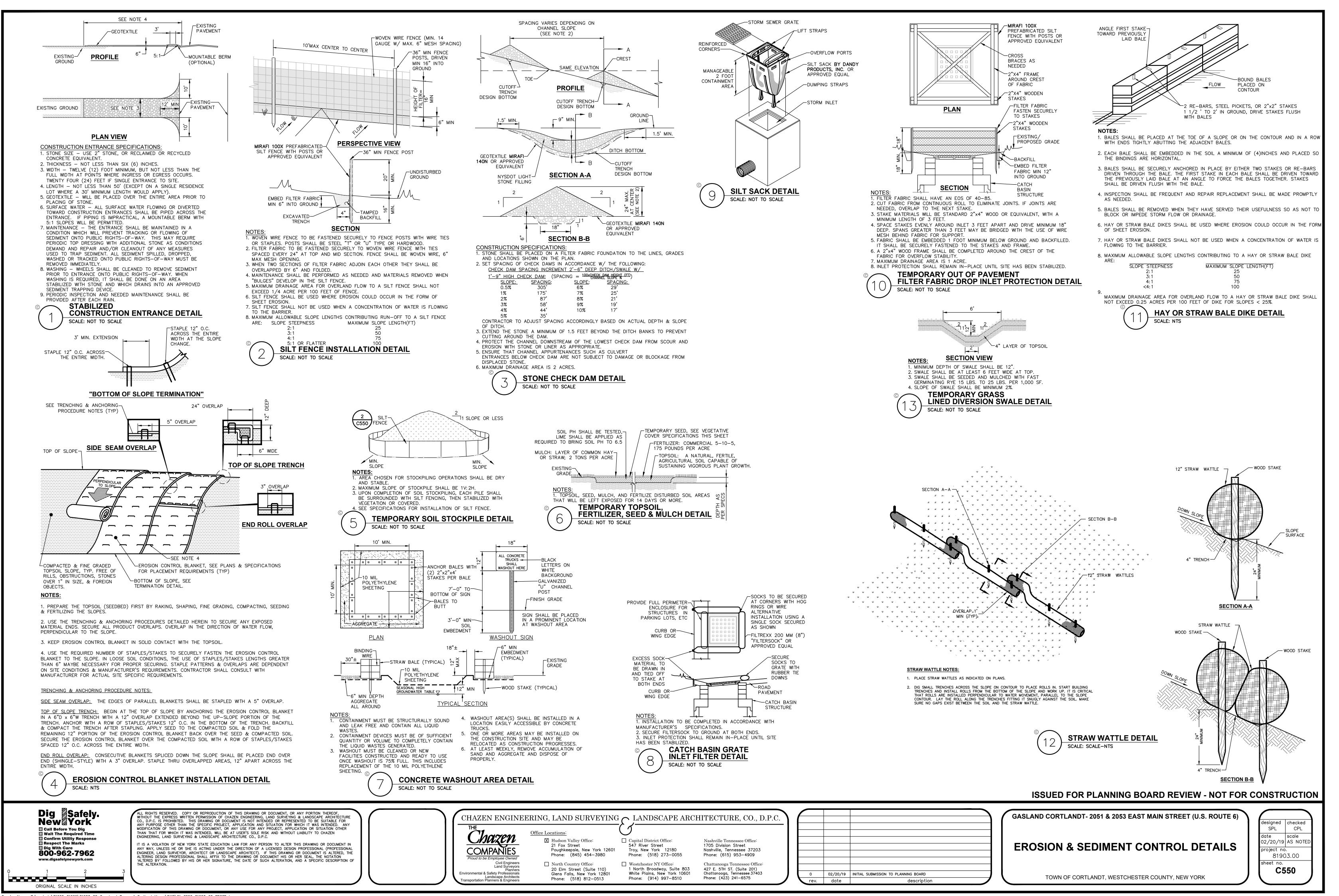
 $\label{local_property} \begin{tabular}{ll} Drawing Name: Z: $$projects 81900-81999 81903-00\_Gas-Land\_Town-of-Cortland-Manor DWG 01\_C530\_81903-00\_SITE DETAIL.dwg \\ Drawing Name: Drawi$ Xref's Attached: XTB\_81903-00 Date Printed: Feb 20, 2019, 9:50am

ORIGINAL SCALE IN INCHES

C531

TOWN OF CORTLANDT, WESTCHESTER COUNTY, NEW YORK





1. THE TOTAL AREA OF DISTURBANCE PLANNED FOR THIS PROJECT IS LESS THAN 1 AREA THEREFORE A SPDES GENERAL PERMIT (GP-0-15-002) IS NOT REQUIRED.

#### **EROSION AND SEDIMENT CONTROL MEASURES:** DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND

- SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES. 2. AS MUCH AS IS PRACTICAL, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL
- EXPOSED SOILS. 3. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE
- AND DURATION OF SOIL DISRUPTION. 4. PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE AVOIDED. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT SITE.

## MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES:

PERMANENT AND TEMPORARY VEGETATION:
INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND RESTABILIZED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE:
INSPECT THE ENTRANCE PAD EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WET WEATHER. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE

SILT FENCE:
INSPECT FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.

SOIL STOCKPILE:
INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAY BALE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO DECOMPOSE, OR IN ANYWAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

<u>DUST CONTROL:</u> SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTÙRBED ÁREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

CHECK DAM: INSPECT CHECK DAMS EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. IF SIGNIFICANT EROSION HAS OCCURRED BETWEEN STRUCTURES A LINER OF STONE OR OTHER SUITABLE MATERIAL SHOULD BE INSTALLED IN THAT PORTION OF THE CHANNEL. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAM AS NEEDED TO ALLOW CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. REPLACE STONES AS NEEDED TO MAINTAIN THE DESIGN CROSS SECTION OF THE STRUCTURES. REMOVE CHECK DAMS AS PER APPROVAL OF ENGINEER.

EROSION CONTROL BLANKET:
INSPECT THE BLANKET EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. REPLACE WIRE STAPLES AS REQUIRED. REPAIR AND RESEED WHERE CRACKS AND DAMAGED VEGETATION IS EVIDENT. WHEN DAMAGED BEYOND REPAIR OR NO LONGER FUNCTIONING, THE BLANKET SHALL BE REPLACED.

EARTH DIKE: INSPECT ALL EARTH DIKES EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL AREAS DAMAGED BY EROSION SHALL BE REPAIRED IMMEDIATELY.

TEMPORARY SWALE:
INSPECT ALL EARTH DIKES EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL

AREAS DAMAGED BY EROSION SHALL BE REPAIRED IMMEDIATELY. SEDIMENT TRAP:
INSPECT ALL SEDIMENT TRAPS EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT.

SEDIMENT SHALL BE REMOVED AND THE TE

REPAIRS SHALL BE MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO THE ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/2 OF THE DESIGN DEPTH OF THE TRAP.

STORM DRAIN INLET PROTECTION:
INSPECT ALL STORM DRAIN INLET PROTECTION DEVICES EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE REPAIRS AS NEEDED, REMOVE SEDIMENT FROM THE POOL AREA AS NECESSARY.

<u>DEWATERING PITS:</u> (IF REQUIRED) — INSPECT DAILY DURING OPERATION FOR CLOGGING OR OVERFLOW. CLEAR INLET AND DISCHARGE PIPES OF OBSTRUCTIONS. IF A FILTER MATERIAL BECOMES CLOGGED WITH SEDIMENT, PIT SHALL BE DISMANTLED AND CONSTRUCT NEW PITS AS

SNOW AND ICE CONTROL:
PARKING LOTS, ROADWAYS, AND DRIVEWAYS ADJACENT TO WATER QUALITY FILTERS SHALL NOT BE SANDED DURING SNOW EVENTS DUE TO HIGH POTENTIAL FOR CLOGGING FROM SAND IN SURFACE WATER RUNOFF. USE SALT ONLY FOR SNOW AND ICE

## GENERAL EROSION AND SEDIMENT CONTROL NOTES:

ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", NOVEMBER 2016.

2. EXCESS SOIL TO BE STOCKPILED WITHIN THE LIMITS OF SITE DISTURBANCE IF NOT

USED IMMEDIATELY FOR GRADING PURPOSES. INSTALL SILT FENCE AROUND SOIL

- STOCKPILES. 3. APPLY SURFACE STABILIZATION AND RESTORATION MEASURES. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS DELAYED, SUSPENDED, OR INCOMPLETE AND WILL NOT BE REDISTURBED FOR 21 DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED. (SEE SPECIFICATIONS FOR TEMPORARY VEGETATIVE COVER). AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS COMPLETE AND WILL NOT BE REDISTURBED SHALL BE STABILIZED AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. (SEE SPECIFICATIONS FOR PERMANENT VEGETATIVE COVER). SEEDING FOR PERMANENT VEGETATIVE COVER SHALL BE WITHIN THE
- PERMITTED SEEDING PERIODS. 4. SEEDED AREAS TO BE MULCHED WITH STRAW OR HAY MULCH IN ACCORDANCE WITH VEGETATIVE COVER SPECIFICATIONS.

SEASONAL LIMITATIONS. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE

- 5. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF
- 6. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO
- SUPPLY ALL EQUIPMENT AND WATER. . WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.

#### TOPSOIL SPECIFICATIONS:

EXISTING EXCESS TOPSOIL SHALL BE REMOVED AND STORED IN TOPSOIL STOCKPILES SUFFICIENTLY REMOVED FROM OTHER EXCAVATION OR DISTURBANCE TO AVOID MIXING. SILT FENCE SHALL BE INSTALLED AROUND TOPSOIL STOCKPILE AREAS.

- COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED. 2. SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSOIL AREAS. SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE
- STEEPER THAN 5%. 3. REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3 INCHES IN DIAMETER, AND OTHER

- NEW TOPSOIL SHALL BE BETTER THAN OR EQUAL TO THE QUALITY OF THE EXISTING ADJACENT TOPSOIL. IT SHALL MEET THE FOLLOWING CRITERIA:
- A. ORIGINAL LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADMIXTURE OF SUBSOIL MATERIAL AND FREE OF DENSE MATERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER OBJECTIONABLE MATERIAL.
- B. CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLING PASSING A 1/4" SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105°C.
- C. CONTAINING A PH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON THAT PORTION OF THE
- SAMPLE WHICH PASSES A 1/4" SIEVE. D. CONTAINING THE FOLLOWING WASHED GRADATIONS:

SIEVE DESIGNATION % PASSING 97-100 ŃO 200 20-60

#### APPLICATION AND GRADING:

- TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OF 4" OVER THE AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER ICE, SNOW,
- OR STANDING WATER 2. TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5% SHALL BE PROMPTLY FERTILIZED, SEEDED, MULCHED AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.

#### VEGETATIVE COVER SPECIFICATIONS:

- TEMPORARY VEGETATIVE COVER (DURING CONSTRUCTION):
- (SAME AS PERMANENT VEGETATIVE COVER)
- 2. SEED MIX: (APPLY AT RATE OF 3 TO 4 LBS PER 1000 SF) AMOUNT BY: MINIMUM %
- WEIGHT SPECIES OR VARIETY PURITY GERMINATION
  100% ANNUAL RYEGRASS 98% 90%
- SEEDING (SAME AS PERMANENT VEGETATIVE COVER)

#### PERMANENT VEGETATIVE COVER (AFTER CONSTRUCTION):

- A. BRING AREA TO BE SEEDED TO REQUIRED GRADE. A MINIMUM OF 4" OF TOPSOIL IS
- PREPARE SEEDBED BY LOOSENING SOIL TO A DEPTH OF 4 INCHES.
- REMOVE ALL STONES OVER 1 INCH IN DIAMETER, STICKS AND FOREIGN MATTER FROM THE SURFACE.
- LIME TO PH OF 6.5. FERTILIZER: USE 5-10-5 (NPK) OR EQUIVALENT. APPLY AT RATE OF 4 LBS/1000 SF.
- INCORPORATE LIME AND FERTILIZER IN THE TOP 4 INCHES OF TOPSOIL. G. SMOOTH AND FIRM THE SEEDBED.

#### 2. SEED MIXTURE FOR USE ON LAWN AREAS:

CREEPING RED FESCUE

PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS.

#### LAWN SEED MIX: (APPLY AT RATE OF 5 TO 6 LBS PER 1000 SF)

SUN AND PARTIAL SHADE:	
AMOUNT BY:	MINIMUM %
WEIGHT SPECIES OR VARIETY	PURITY GERMINATION
50% KENTUCKY BLUE GRASS*	95% 80%
20% PERENNIAL RYE	98% 90%

\*MINIMUM 2 (EQUAL PROPORTIONS) VARIETIES AS LISTED IN CORNELL RECOMMENDATIONS FOR TURFGRASS.

97% 85%

## SHADE:

AMOUN	T BY:	MINIMUM %		
WEIGHT SPECIES OR VARIETY		PURITY	GERMINATION	
25%	KENTUCKY BLUE GRASS**	95%	80%	
20%	PERENNIAL RYE	98%	90%	
35%	CREEPING RED FESCUE	97%	85%	
<u> 20%</u>	CHEWINGS RED FESCUE	97%	85%	
100%				
****	E TOLEDANIT MADIETM			

## \*\*SHADE TOLERANT VARIETY

- A. APPLY SEED UNIFORMLY BY CYCLONE SEEDER CULTI-PACKER OR HYDRO-SEEDER AT RATE
- B. ALL SEEDED AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING
- METHODS: i. A UNIFORM BLANKET OF STRAW APPLIED AT A RATE OF 2 TONS /ACRE MIN., TO BE APPLIED ONCE SEEDING IS COMPLETE. WOOD FIBER CELLULOSE APPLIED WITH SEED MIX BY HYDROSEEDER AT RATE OF 2,000
- LBS/ACRE. C. ALL SEÉDED SLOPES 3:1 OR GREATER SHALL BE PROTECTED FROM EROSION WITH JUTE
- MESH OR APPROVED EQUAL. IRRIGATE TO FULLY SATURATE SOIL LAYER, BUT NOT TO DISLODGE PLANTING SOIL.
- UNLESS OTHERWISE DIRECTED IN WRITING, SEED FROM MARCH 15TH TO JUNE 15TH, AND FROM AUGUST 15TH TO OCTOBER 15TH.

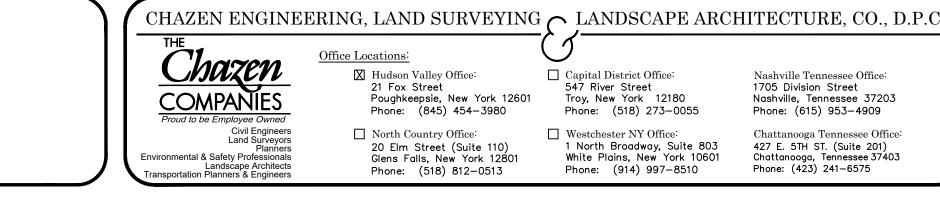
## COMPACTION REQUIREMENTS

OCATION	COMPACTION	TESTING FREQUENCY
IPE TRENCH BACKFILL IN PAVED AREAS)	95% ASTM D1557	1 SERIES OF TESTS FOR EACH 150 FT OR LESS OF TRENCH LENGTH. SERIES INCLUDE 3 COMPACTION TESTS SPREAD EVENLY ALONG TRENCH PROFILE.
PIPE TRENCH BACKFILL IN UNPAVED AREAS)	90% ASTM D1557	1 SERIES OF TESTS FOR EACH 150 LF OR LESS OF TRENCH LENGTH. SERIES INCLUDE 3 COMPACTION TESTS SPREAD EVENLY ALONG TRENCH PROFILE.
IPE BEDDING AND PIPE ONE BACKFILL	95% ASTM D1557	1 TEST FOR EACH 150 FT OR LESS OF TRENCH LENGTH.
AVEMENT SUBBASE AND AST LIFT OF SELECT RANULAR FILL (FILL ETWEEN SHEET PILES)	95% ASTM D1557	1 TEST FOR EVERY 2,000 SQ FT, OF LIFT AREA BUT NO FEWER THAN TWO TESTS PER LIFT

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0 02/20/19 INITIAL SUBMISSION TO PLANNING BOARD date

**EROSION & SEDIMENT CONTROL NOTES** 

GASLAND CORTLANDT- 2051 & 2053 EAST MAIN STREET (U.S. ROUTE 6)

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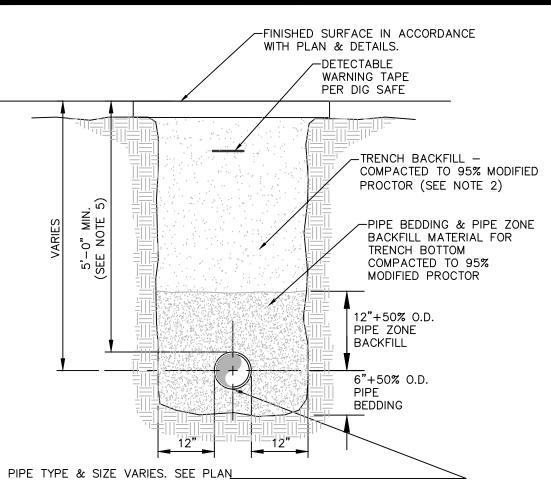
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ORIGINAL SCALE IN INCHES



. PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES. ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. BEDDING GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION

% PASSING 100% 0-70% 0-10%

TRENCH BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) OR PROCESSED GRAVEL, OR EXCAVATED MATERIAL FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION % PASSING 100% 0-70% NO. 200 0-10%

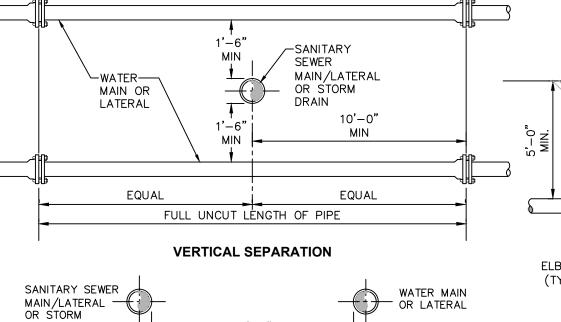
IN NON-TRAFFIC UNPAVED AREAS TRENCH BACKFILL CAN BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER AND COMPACTED TO 90% MODIFIED PROCTOR.

3. INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS &

4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS. 5. 5'-0" MIN COVER SHALL BE APPLIED TO WATER MAIN OR SANITARY SEWER

FORCE MAINS ONLY. PIPE TRENCH DETAIL (TYPICAL)

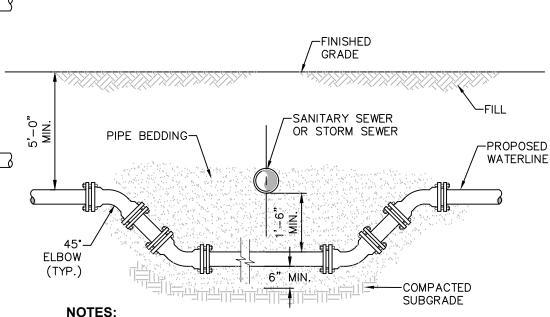
SCALE: NOT TO SCALE



DRAIN **HORIZONTAL SEPARATION** 

NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE NYS HEALTH DEPARTMENT. OFFSETTING OF WATERLINE SHALL BE REQUIRED WHERE SEPARATION DISTANCES CANNOT BE MAINTAINFD 2. WHEN IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS INDICATED ABOVE, BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE

CONSTRUCTED OF MECHANICAL JOINT, DUCTILE IRON PIPE OR PVC WATER WORKS GRADE PRESSURE PIPE FOR 10' EACH SIDE OF CROSSING AND SHALL BE PRESSURE TESTED TO 150psi TO ASSURE WATER TIGHTNESS. SANITARY/STORM SEWER AND WATERMAIN SEPARATION DETAIL SCALE: NOT TO SCALE



. WHEN THE ELEVATION OF THE SEWER CAN NOT BE VARIED TO MEET THE ABOVE REQUIREMENTS, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS REQUIRED SEPARATION.

2. WHEN IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS INDICATED ABOVE, BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT DUCTILE IRON PIPE OR PVC WATER WORKS GRADE PRESSURE PIPE FOR 10' EACH SIDE OF CROSSING AND SHALL BE PRESSURE TESTED TO 150psi TO ASSURE WATER TIGHTNESS.



## **GENERAL CONSTRUCTION NOTES:**

- 1. ALL UTILITY WORK INVOLVING CONNECTION TO EXISTING MUNICIPAL WATER MAIN SHALL BE COORDINATED WITH OWNER AND OWNER'S REPRESENTATIVE. NOTIFY OWNER AND THE OWNER'S REPRESENTATIVE 3 WORKING DAYS BEFORE CONNECTION IS MADE.
- 2. THE CONTRACTOR SHALL VERIFY THE PRESENCE OF AND EXACT LOCATION OF ALL UTILITIES PRIOR TO COMMENCING ANY EXCAVATION WORK AS THE EXACT LOCATION OF UTILITIES MAY DIFFER FROM THE LOCATION SHOWN, AND ADDITIONAL UTILITIES MAY EXIST.
- 3. THE CONTRACTOR SHALL REVIEW ALL FIELD UTILITY MARKOUT INFORMATION AND BRING ANY CONFLICTS TO THE ATTENTION OF THE PROJECT ENGINEER PRIOR TO COMMENCING ANY WORK OPERATIONS. TEST PITS MAY BE REQUIRED BY THE CONTRACTOR TO VERIFY ACTUAL UTILITY LOCATIONS AND/OR DEPTHS. TEST PIT OPERATIONS WILL MEET ALL NECESSARY REQUIREMENTS AS SET FORTH IN THESE PLANS, DETAILS, FEDERAL/STATE/LOCAL REGULATIONS AND ANY SPECIFIC PERMIT REQUIREMENTS.
- 4. THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATIONS AT ALL UTILITY CONNECTION LOCATIONS AND AS NEEDED TO VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER AND OWNER'S REPRESENTATIVE 3 WORKING DAYS PRIOR TO SUCH EXCAVATIONS TO ENSURE THEIR PRESENCE.
- 5. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING FOR THE PROPOSED STRUCTURES AND WATER LINES AS THE EXACT LOCATION OF UNDERGROUND STRUCTURES AND UTILITIES ARE NOT KNOWN. ANY DAMAGE TO EXISTING STRUCTURES/UTILITIES ABOVE OR BELOW GRADE, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT HIS OWN EXPENSE.

#### **WATER MAIN NOTES:**

- 1. ALL WATER MAINS SHALL BE CEMENT LINED DUCTILE IRON PIPE, CLASS 52 PUSH-ON JOINT, UNLESS OTHERWISE SPECIFIED BY OR APPROVED BY THE TOWN WATER DEPARTMENT. JOINING SHALL EMPLOY MECHANICAL JOINT RESTRAINT CONNECTIONS SUCH AS CLOW F-1058, MEGALUG, STAR PIPE SERIES 600 "MEGALUG" CONNECTIONS, FIELD LOK GASKET, OR AS ALTERNATIVELY SPECIFIED BY THE TOWN WATER DEPARTMENT. ALL WATER PIPING CONSTRUCTION SHALL BE TO THE SPECIFICATIONS OF THE TOWN WATER DEPARTMENT. WET TAP OF PUBLIC WATER SYSTEM SHALL BE APPROVED AND SUPERVISED BY THE TOWN WATER DEPARTMENT. TAPPING SLEEVI SHALL BE STAINLESS STEEL OR APPROVED EQUAL. ALL MAINLINE VALVES SHALL BE RESILIENT WEDGE OR APPROVED EQUAL.
- 2. THE WATER LINE MAY BE FLEXED WITHIN PIPE SPECIFICATIONS OR LAID DEEPER IN AREAS WHERE A CROSSING WITH A SANITARY LINE OCCURS, TO ACHIEVE THE REQUIRED 1.5' VERTICAL SEPARATION DISTANCE. IF THIS DISTANCE CANNOT BE REASONABLY ACHIEVED, THE CONTRACTOR SHALL USE PRESSURE RATED SANITARY SEWER PIPE OF EQUAL OR GREATER RATEING THAT THE PRESSURE CLASS FOR THE
- 3. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER PIPE 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 LINE AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECT FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER PIPE 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.
- 4. ALL WATER MAINS SHALL HAVE A MINIMUM OF (5) FIVE FEET OF COVER FROM THE TOP OF THE MAIN TO FINISHED GRADE. THE CONTRACTOR SHALL CHECK ALL FINISHED GRADE STAKES BEFORE TRENCHING TO ENSURE THAT ALL INSTALLED WATERMAINS WILL HAVE THE REQUIRED COVER.
- 5. THE CONTRACTOR SHALL COORDINATE THE TESTING WITH THE WATER DEPARTMENT SO AS TO MAINTAIN THE AMOUNT OF SERVICE INTERRUPTION TO EXISTING USERS TO THE LEAST EXTENT PRACTICABLE. WATER MAIN INSTALLATION AND TESTING SHALL BE PERFORMED UNDER THE SUPERVISION OF THE PROJECT ENGINEER OR HIS DESIGNEE AS NECESSARY TO MEET CONDITIONS IN NOTE 5 ABOVE.
- 6. ALL NEW WATER MAIN INSTALLATIONS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH AWWA STANDARD C 600(LATEST REVISION) AT A PRESSURE OF 150 PSI, OR 1.5 TIMES (AS REFERENCED ABOVE) THE WORKING PRESSURE OF THE SYSTEM AS A MINIMUM. ALLOWABLE LEAKAGE OF THIS TEST SHALL BE AS DEFINED IN SECTION 4.2 OF SAID AWWA SPECIFICATION.
- 7. APPROVED AND TESTED WATER MAIN SHALL BE DISINFECTED PER AWWA SECTION C 651 (AS REFERENCED ABOVE), AS DIRECTED BY ENGINEER.
- 8. THE WATER MAIN SHALL BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS DESIGNATION C651 (LATEST REVISION). 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 SYSTEM. THE PROJECT ENGINEER OR HIS DESIGNEE SHALL ALSO WITNESS DISINFECTION AND FLUSHING.
- 9. ALL WATER MAIN FITTINGS NOT RECEIVING 24-HOUR CHLORINE DISINFECTION TIME MUST BE SWAB-DISINFECTED 30 MINUTES PRIOR TO INSTALLATION.
- 10. THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING.
- 11. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS.
- 12. FIRE HYDRANTS WEEP HOLES (DRAINS) SHALL BE PLUGGED WHEN GROUND WATER IS ENCOUNTERED WITHIN SEVEN FEET OF THE FINISHED GRADE. WHEN DRAINS ARE PLUGGED, THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER. SUCH HYDRANTS SHALL BE IDENTIFIED BY MARKINGS APPROVED BY THE TOWN WATER DEPARTMENT.
- 13. PROPOSED WATER METERS LOCATED WITHIN THE METER PIT OR BUILDING SHALL BE A COMPATIBLE REMOTE STYLE TYPE, AND SHALL BE APPROVED BY THE TOWN WATER DEPARTMENT PRIOR TO INSTALLATION.
- 14. THE WATER LINE SHALL BE INSTALLED AT A CONTINUOUS GRADE WITH NO ABRUPT HIGH POINTS OR LOW POINTS.
- 15. FINAL WATER DISTRIBUTION SYSTEM IS SUBJECT TO REVIEW, REVISION AND APPROVAL BY THE TOWN WATER DEPARTMENT.
- 16. ALL WATER MAINS AND RELATED APPURTENANCES SHALL BE CONSTRUCTED TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE TOWN.
- 17. THE WATER MAIN SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE
- 18. ALL WATER SERVICE CONSTRUCTION SHALL BE SUBJECT TO INSPECTION BY THE TOWNWATER DEPARTMENT PRIOR TO BACKFILLING.
- 19. THE SITE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BURIED PIPING TO THE LOCATION OF THE PROPOSED BUILDING CONNECTION POINT (I.E. INSIDE THE BUILDING). THIS INCLUDES THE TESTING AND CERTIFICATION OF ALL WATER SERVICE WORK FROM THE TOWNWATER CONNECTION POINT TO THE PROPOSED BUILDINGS INTERIOR CONNECTION POINT.
- 20. ALL WATER SERVICE PIPING INSTALLATION, BACKFILL AND TESTING SHALL BE REVIEWED, AND APPROVED BY THE TOWN WATER MAINTENANCE SUPERVISOR OR HIS

#### WATER DISINFECTION NOTES:

- . APPROVED AND TESTED WATER MAIN SHALL BE DISINFECTED PER A.W.W.A. SECTION C651, LATEST EDITION. TABLET OR POWDERED METHOD IS NOT ALLOWED.
- 2. THE CONTRACTOR SHALL NOTIFY THE MUNICIPALITY AND THE PROJECT ENGINEER 48 HOURS PRIOR TO DISINFECTING THE SERVICE LINES.
- 3. DISINFECTED WATER MUST REMAIN IN THE WATER MAINS FOR A MINIMUM OF 24 HOURS BEFORE BEING THOROUGHLY FLUSHED OUT.
- 4. WATER SERVICE LINES SHALL BE DISINFECTED AS PER AWWA SECTION C651 WHERE: A. CHLORINE CONCENTRATION IN WATER LINES SHALL BE NO LESS THAN 50 MG/L AT START OF 24-HOUR TEST.
- B. CHLORINE RESIDUAL SHALL BE NO LESS THAN 10 MG/L AT END OF TEST. 5. PRIOR TO RECEIVING CERTIFICATE OF OCCUPANCY, MICROBIOLOGICAL SAMPLES SHALL BE
- COLLECTED FROM BOTH ENDS AND THE MIDDLE OF EACH NEW LINE. ALL LINES SHALL NOT BE USED UNTIL MICROBIOLOGICAL SAMPLES ARE ACCEPTED BY THE TOWN. RESULTS OF ALL MICROBIOLOGICAL TESTING SHALL BE SUBMITTED TO THE TOWN ALONG WITH ENGINEER'S CERTIFICATE OF COMPLETION.

#### WATER NOTES:

- 1. USE RESTRAINED JOINT PIPE AND FITTINGS FOR PROPER RESTRAINT OF WATER MAIN
- 2. ALL BURIED PIPE FITTINGS AND APPURTENANCES SHALL BE RESTRAINED WITH AN APPROVED DUCTILE IRON RESTRAINED JOINT SYSTEM. ALL BENDS, TEES, CROSSES AND DEAD ENDS SHALL BE "TYTON" PUSH-ON FITTINGS PROVIDED WITH "FIELD LOK 350" JOINT RESTRAINT RUBBER GASKET AS MANUFACTURED BY "U.S. PIPE" OR MECHANICAL JOINT FITTINGS PROVIDED WITH "MEGALUG" JOINT RESTRAINT AS MANUFACTURED BY "EBAA IRON". ALL VALVES FOR UNDERGROUND SERVICE SHALL BE PROVIDED WITH MJ END CONNECTIONS AND RESTRAINED WITH "MEGALUG" SERIES 1100 MECHANICAL JOINT RESTRAINT AND RODDING.
- 3. PIPE BEND FITTINGS SHOWN ON THE DRAWINGS ARE INDICATIVE OF PROBABLE DIRECTIONAL CHANGES IN THE PROPOSED WATER MAIN ALIGNMENT. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL FITTINGS, EITHER SHOWN OR FIELD REQUIRED, AS PART OF THE CONTRACTOR'S CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- 4. THE CONTRACTOR SHALL PROVIDE AND INSTALL BRASS WEDGES ACROSS ALL PIPE JOINTS TO ENSURE ELECTRICAL CONDUCTIVITY. THE LOCATION AND THE NUMBER OF WEDGES TO BE PROVIDED SHALL BE ACCORDING TO THE PIPE MANUFACTURER'S RECOMMENDATIONS AND THE SPECIFICATIONS.
- 5. SHEETING AND EXCAVATION BRACING FOR THE WATERMAIN INSTALLATION SHALL BE PROVIDED IN ACCORDANCE WITH OSHA REQUIREMENTS TO SUIT EXISTING SOIL CONDITIONS. SHEETING, IF REQUIRED, SHALL BE TIGHT WOOD SHEETING AND SHALL BE LEFT IN PLACE, AND AFTER BACKFILLING SHALL BE CUT AT GROUND LEVEL OR AS ORDERED BY THE OWNER'S REPRESENTATIVE.
- 6. MATERIALS USED IN CONSTRUCTION THAT WILL CONTACT POTABLE WATER SHALL BE ANSI/NSF 61 CERTIFIED OR EQUIVALENT.

#### **TESTING WATER MAINS:**

- 1. AFTER TRENCH HAS BEEN BACKFILLED, HYDROSTATIC ACCEPTANCE TESTS, CONSISTING OF A PRESSURE TEST AND A LEAKAGE TEST, SHALL BE PERFORMED ON ALL SECTIONS OF WATER MAINS INSTALLED. LEAKAGE TEST SHALL BE CONDUCTED CONCURRENTLY WITH PRESSURE TEST. TEST SECTION SHALL BE LIMITED TO 1,500 FT (MAX.). TESTS SHOULD BE CONDUCTED TO FIRST
- 2. AFTER ALL TESTS AND INSPECTIONS HAVE BEEN PERFORMED EVIDENCE OF COMPLIANCE SHALL BE FORWARDED TO OWNER/ENGINEER AND THE TOWN PRIOR TO ACCEPTANCE.
- 3. ALL WATER FOR TESTS SHALL BE FURNISHED AND DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. SOURCE AND/OR QUALITY OF WATER WHICH THE CONTRACTOR PROPOSES TO USE IN TESTING LINES SHALL BE ACCEPTABLE TO THE ENGINEER.
- 4. HYDROSTATIC PRESUMPTIVE TESTS MAY BE PERFORMED WHEN SYSTEM IS PARTIALLY BACKFILLED TO SIMPLY CHECK WORK, BUT ACCEPTANCE OF SYSTEM SHALL BE BASED ON HYDROSTATIC TESTS RUN ON FINISHED SYSTEM AFTER IT HAS BEEN COMPLETELY BACKFILLED. ALL HYDROSTATIC TESTS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 4 OF AWWA STANDARD C 600 OR LATER ADDITION, AS MODIFIED HEREIN.
- 5. FOR THE PRESSURE TEST, SYSTEM SHALL BE PRESSURIZED AND MAINTAINED AT A MINIMUM OF 150 POUNDS PER SQUARE INCH, OR 1.5 TIMES THE WORKING PRESSURE, WHICHEVER I GREATER, BASED ON THE ELEVATION OF THE LOWEST POINT IN THE SECTION BEING TESTEL AND CORRECTED TO THE ELEVATION OF THE GAUGE. PROVISIONS SHALL BE MADE TO RELIEVE AIR TRAPPED AT HIGH POINTS IN THE SYSTEM THROUGH ADJACENT HYDRANTS OR THROUGH TAPS AND CORPORATION STOPS INSTALLED FOR THIS PURPOSE BY THE CONTRACTOR. AFTER SAID PRESSURE HAS BEEN MAINTAINED SUCCESSFULLY, WITH FURTHER PUMPING AS REQUIRED, FOR A PERIOD OF AT LEAST TWO HOURS, THE SECTION UNDER TEST SHALL BE CONSIDERED TO HAVE PASSED THE PRESSURE TEST.
- 6. LEAKAGE TEST SHALL BE PERFORMED CONCURRENTLY USING A MINIMUM TEST PRESSURE OF 150 LBS/SQUARE INCH. OR 1.5 TIMES THE WORKING PRESSURE. WHICHEVER IS GREATER, BASED ON THE ELEVATION OF THE LOWEST POINT IN THE SECTION UNDER TEST AND CORRECTED TO ELEVATION OF THE GAUGE. LEAKAGE TEST DURATION SHALL BE A MINIMUM OF 2 HOURS AFTER LEAKAGE RATE HAS STABILIZED.
- 7. MAXIMUM ALLOWABLE LEAKAGE SHALL BE AS SHOWN IN THE FOLLOWING TABLE: ALLOWABLE LEAKAGE PER 1000 FT (305M) OF PIPELINE (GPH)

AVG. TEST PRESSURE NOMINAL PIPE DIAMETER-IN.							
PSI	4	6	8	10	12	14	16
450	0.57	0.86	1.15	1.43	1.72	2.01	2.29
400	0.54	0.81	1.08	1.35	1.62	1.89	2.16
350	0.51	0.76	1.01	1.26	1.52	1.77	2.02
300	0.47	0.70	0.94	1.17	1.40	1.64	1.87
275	0.45	0.67	0.90	1.12	1.34	1.57	1.79
250	0.43	0.64	0.85	1.07	1.28	1.50	1.71
225	0.41	0.61	0.81	1.01	1.22	1.42	1.62
200	0.38	0.57	0.76	0.96	1.15	1.34	1.53
175	0.36	0.54	0.72	0.89	1.07	1.25	1.43
150	0.33	0.50	0.66	0.83	0.99	1.16	1.32
125	0.30	0.45	0.60	0.76	0.91	1.06	1.21
100	0.27	0.41	0.54	0.68	0.81	0.95	1.08

8. IF LEAKAGE IN SYSTEM EXCEEDS THE SPECIFIED AMOUNT, THE CONTRACTOR SHALL, AT NO ADDED COST TO THE OWNER, LOCATE, REPAIR, AND/OR REPLACE DEFECT(S) AND RE-TEST

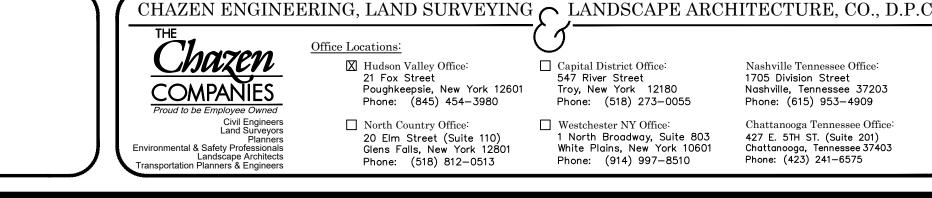
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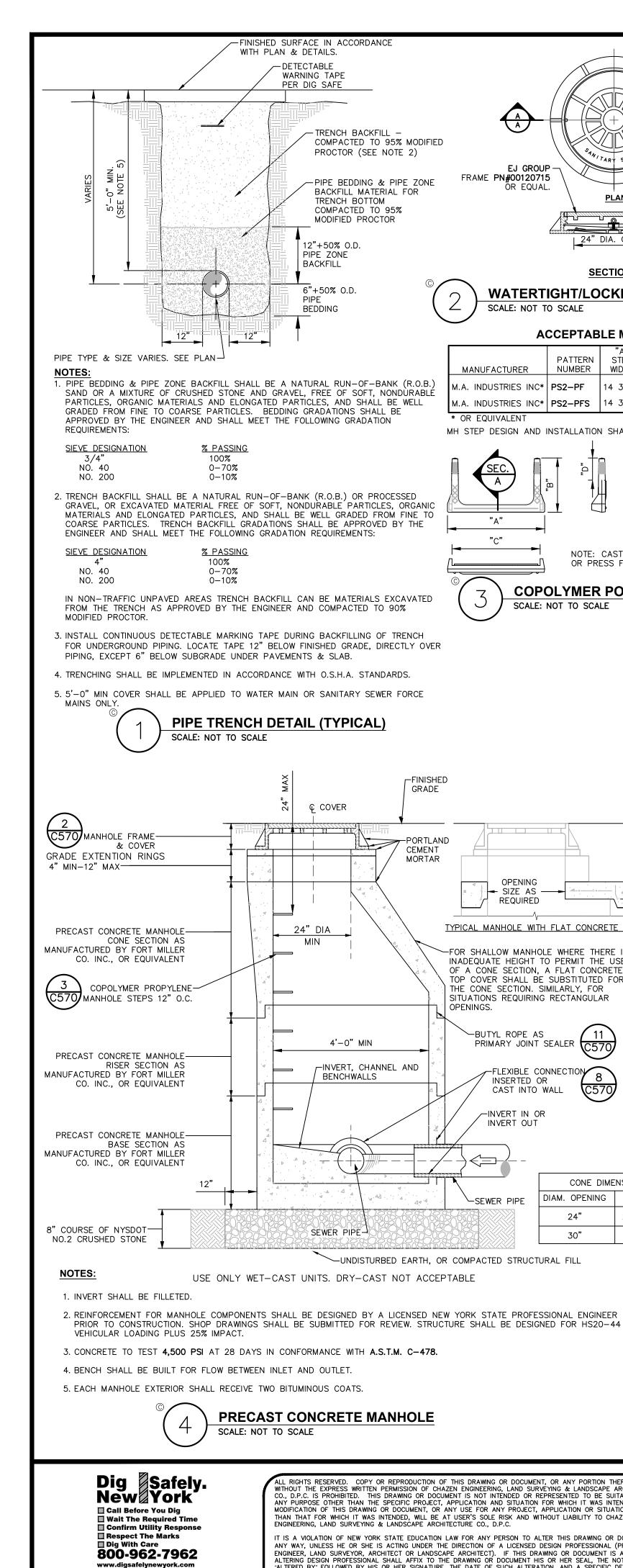
02/20/19 INITIAL SUBMISSION TO PLANNING BOARD date

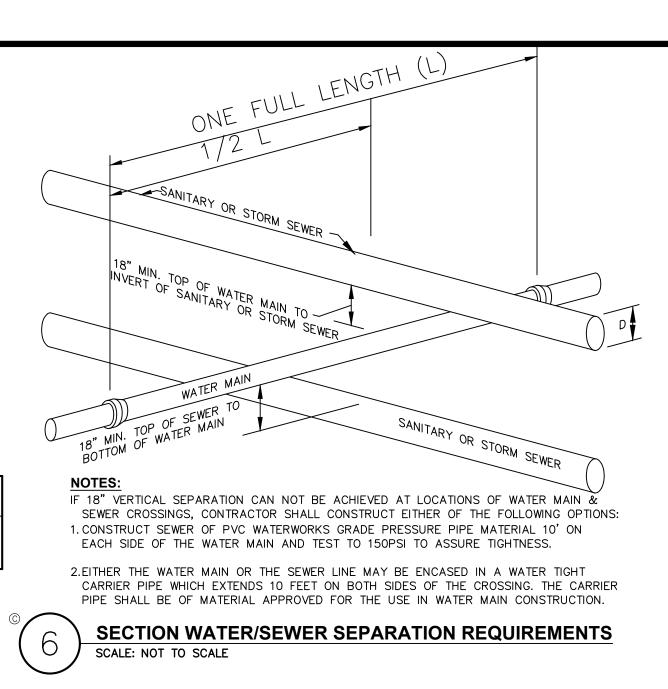
**WATER DETAILS** 

GASLAND CORTLANDT- 2051 & 2053 EAST MAIN STREET (U.S. ROUTE 6)

TOWN OF CORTLANDT, WESTCHESTER COUNTY, NEW YORK

lesianed | checked SPL CPL scale 02/20/19 AS NOTE oiect no. 81903.00 C560





-WATERPROOF CEMENT

MORTAR

**CAULKED** 

SANITARY

OUTLET

-12" NYSDOT #2

CRUSHED STÖNE

 $\overline{\phantom{a}}$ 

SECTION VIEW

INLET INVERT

OUTLET INVERT

**SECTION VIEW** 

8'-8 1/2"

PLAN VIEW

2. DIMENSIONS SHOWN ARE PER STRUCTURES MANUFACTURED BY FORT MILLER CO.

3. REINFORCEMENT FOR MANHOLE COMPONENTS SHALL BE DESIGNED BY A LICENSED

DRAWINGS SHALL BE SUBMITTED FOR REVIEW. STRUCTURE SHALL BE DESIGNED FOR

4. CONCRETE TO TEST 4,500 PSI AT 28 DAYS IN CONFORMANCE WITH A.S.T.M. C-478.

1000 GAL SEAMLESS CONCRETE SEPTIC TANK

NEW YORK STATE PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION. SHOP

5. EACH MANHOLE EXTERIOR SHALL RECEIVE TWO BITUMINOUS COATS.

. SEPTIC TANKS SHALL BE AS MANUFACTURED BY THE FORT MILLER CO. OR

2" ABOVE

-FORMED HOLE WITH INSIDE FACE-FLEXIBLE RUBBER BOOT SEAL ASSEMBLY CAST INTO MANHOLE MANHOLE WALL OPENING TO BE-FILLED WITH NON-SHRINK -SERIES 304 STAINLESS STEEL BAND WATER PROOF GROUT CLAMP & SERIES 305 STAINLESS AFTER PIPE IS INSTALLED STEEL ADJUSTMENT SCREW. 2"± PROJECTION~ INTO MH AT PIPE SPRINGLINE - WATERTIGHT/LOCKING CAST IRON MH COVER (C570 -FINISHED ENTERING OR GRADE EXITING MANHOLE TOP OF-BASE SLAB

PRECAST CONCRETE.

BASE SECTION

A"DISTANCE PER TABLE FLEXIBLE JOINT REQUIREMENTS FLEXIBLE JOINT TYPE IN & OUT SEWER PIPE TYPE DUCTILE IRON STD RUBBER GASKET PIPE JOINT ONLY 10' MAX STD RUBBER GASKET PIPE JOINT ONLY 3' MAX

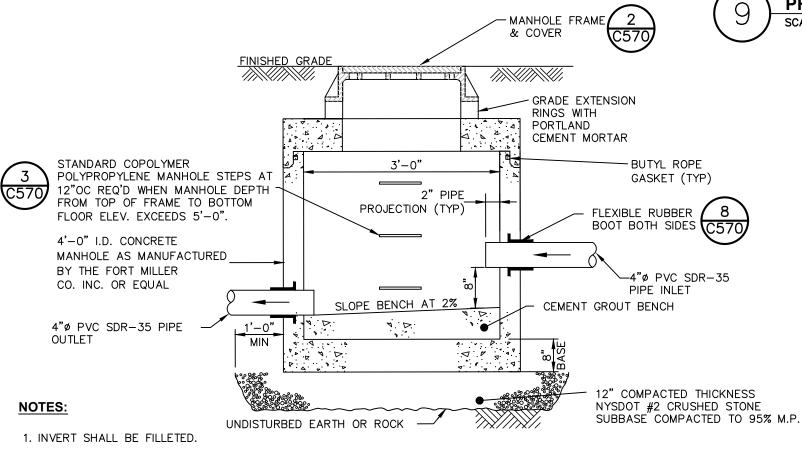
REFERENCE MANHOLE DETAIL(S) FOR REQUIRED INVERT CHANNEL CONFIGURATION. PIPE CONNECTION TO MANHOLE-

FLEXIBLE RUBBER BOOT CAST INTO MANHOLE WALL SCALE: NOT TO SCALE

FLEXIBLE PIPE 2 12

JOINT OR JOINT

COUPLING (PER TABLE)



2. REINFORCEMENT FOR MANHOLE COMPONENTS SHALL BE DESIGNED BY A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW.

STRUCTURE SHALL BE DESIGNED FOR HS20-44 VEHICULAR LOADING PLUS 25% IMPACT.

3. CONCRETE TO TEST 4,500 PSI AT 28 DAYS IN CONFORMANCE WITH A.S.T.M. C-478.

4. BENCH SHALL BE BUILT FOR FLOW BETWEEN INLET AND OUTLET.

5. EACH MANHOLE EXTERIOR SHALL RECEIVE TWO BITUMINOUS COATS.

**GREASE TRAP EFFLUENT SAMPLING MANHOLE DETAIL** SCALE: NOT TO SCALE

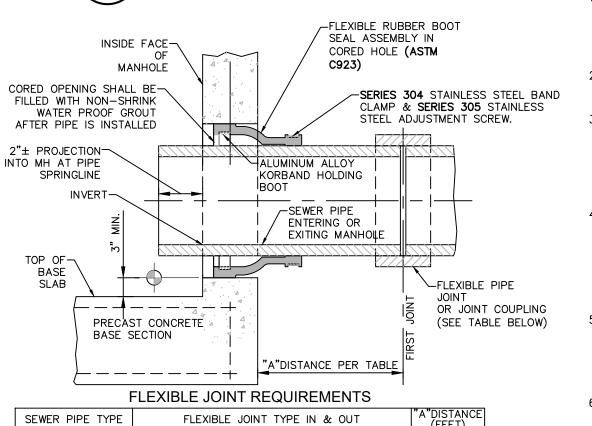
#### ► 2"± PIPE PROJECTION INTO MH(TYPICAL) $+++\leftarrow$ $+ \leftarrow \rightarrow + +$ CURVE MULTIPLÉ INVERT ONE-WAY INVERT \_ALIGN 0.8 DEPTHS SMOOTH OF DIFFERENT CURVE SIZE PIPES $\triangleleft$ ⊿INVERT ACROSS MH STANDARD INVERT SMOOTH DROP SECTION INVERT FILLET -SLOPE TOP OF BENCHWALL 2" PER STEEL TROWEL-SMOOTH ALL CHANNEL & BENCHWALL SURFACES CHANNEL DEPTH INVERT -CAST-IN-PLACE CONCRETE AIR

ENLARGED 50% INLET AND OUTLET OF PIPES SHOWN ON PLAN VIEW OF BASE ARE NOT NECESSARILY TYPICAL OF ALL MANHOLES. REFER TO UTILITY PLAN FOR INLET\_AND OUTLET DIRECTIONS.

\ SECTION

ENTRAINED 4,500PSI

INVERT, CHANNEL AND BENCHWALLS SCALE: NOT TO SCALE



		1				
FLEXIBLE JOINT REQUIREMENTS						
SEWER PIPE TYPE	FLEXIBLE JOINT TYPE IN & OUT	"A"DISTANCE (FEET)				
DUCTILE IRON	STD RUBBER GASKET PIPE JOINT ONLY	10' MAX				
PVC	STD RUBBER GASKET PIPE JOINT ONLY	3' MAX				

REFERENCE MANHOLE DETAIL(S) FOR REQUIRED INVERT CHANNEL CONFIGURATION. PIPE CONNECTION TO MANHOLE-PRECAST OR CORED HOLE W/ INSERTED FLEXIBLE BOOT SCALE: NOT TO SCALE

-PRECAST CONCRETE

MANHOLE SECTION

(SEE TABLE BELOW)

-EXTEND WALL STEEL

(TYP)

PRIMARY

-BUTYL ROPE AS

JOINT SEALER

REINFORCEMENT

SIZE OF BUTYL ROPE

**MANHOLE JOINT** 

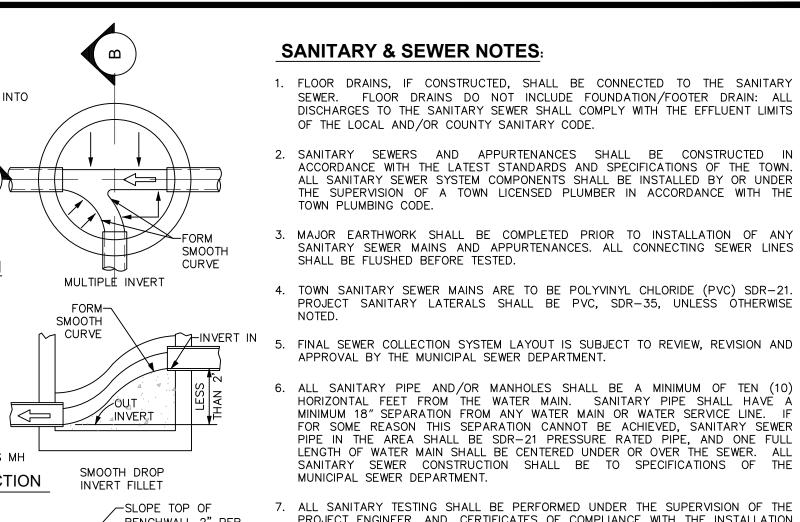
SCALE: NOT TO SCALE

MANHOLE

INSIDE DIAMETER JOINT SEALER

|5'-0" & LARGER | 1 1/2"

INTO JOINT LIPS



SAWED HALF PIPE

MAY BE USED

SANITARY SEWER CONSTRUCTION SHALL BE TO SPECIFICATIONS OF THE MUNICIPAL SEWER DEPARTMENT. 7. ALL SANITARY TESTING SHALL BE PERFORMED UNDER THE SUPERVISION OF THE PROJECT ENGINEER, AND, CERTIFICATES OF COMPLIANCE WITH THE INSTALLATION STANDARDS, APPROVED PLANS OR APPROVED AMENDMENTS SHALL BE PROVIDED TO THE APPROPRIATE SEWER AUTHORITY AS A CONDITION OF APPROVAL FOR OPERATION. 8. ALL SANITARY SEWER CONSTRUCTION SHALL BE SUBJECT TO INSPECTION BY THE

MUNICIPAL SEWER SUPERINTENDENT PRIOR TO BACKFILLING. PIPE BEDDING AND PIPE ZONE MATERIAL SHALL BE IN ACCORDANCE WITH THIS SHEET, DETAIL 1.

9. ALL NEW SANITARY SEWER MANHOLE COVERS SHALL BE MINIMUM NOMINAL 24" DIAMETER CAST IRON AND SHALL READ "SANITARY SEWER". FRAMES SHALL BE 8-INCHES IN HEIGHT.

10. INDICATOR TAPE SHALL BE PLACED 12" BELOW FINISHED GRADE DIRECTLY ABOVE ALL SANITARY LINES.

11. EXTERNAL DROP MANHOLES SHALL BE USED FOR SEWERS ENTERING AT AN

ELEVATION OF 24 INCHES OR HIGHER AT THE INLET OF A SEWER MANHOLE.

#### TESTING GRAVITY SEWER SYSTEM:

1. CONTRACTOR SHALL INSPECT AND TEST THE INSTALLATIONS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION WHEN WORK IS READY FOR TESTING. AFTER ALL TESTS HAVE BEEN PERFORMED, EVIDENCE OF COMPLIANCE SHALL BE FORWARDED TO OWNER/ENGINEER AND THE AUTHORITY HAVING JURISDICTION PRIOR TO ACCEPTANCE.

2. THE CONTRACTOR SHALL TEST AND INSPECT FOR ALIGNMENT OF ALL SANITARY

EACH MANHOLE-TO-MANHOLE SECTION SHALL BE REJECTED OR ACCEPTED BASED ONLY ON RESULTS OF ITS OWN INDEPENDENT SECTION TEST AND NOT ON RESULTS OF ANY ONE TEST RUN SIMULTANEOUSLY OVER MORE THAN ONE CONSECUTIVE MANHOLE-TO-MANHOLE SECTION. THE ONLY EXCEPTION ALLOWED: ACCEPTING SEVERAL CONSECUTIVE MANHOLE-TO-MANHOLE SECTIONS BASED ON ONE COMBINED INFILTRATION TEST INDICATING ZERO INFILTRATION.

LOW PRESSURE AIR TESTING SHALL BE PERFORMED UNDER DIRECTION OF ENGINEER ACCORDING TO ASTM F1417. LOW PRESSURE AIR TEST IS A COMPARISON OF THE MEASURED TIME NECESSARY FOR ONE (1) PSIG PRESSURE DROP TO OCCUR, IF AT ALL, WITH MINIMUM ALLOWABLE TIME FOR THAT PRESSURE DROP TO OCCUR DETERMINED BY METHODS INDICATED IN ASTM F1417 IF THE ONE (1) PSIG PRESSURE DROP OCCURS FASTER THAN ALLOWABLE TIME SECTION IS UNACCEPTABLE.

AN AIR TEST SHALL NOT BE RUN UNTIL SECTION OF LINE TO BE TESTED HAS BEEN CLEANED OF ALL FOREIGN MATERIAL BY FLUSHING AND HAS BEEN VISUALLY INSPECTED AND APPROVED BY THE ENGINEER. CERTAIN PIPE MATERIALS PRODUCE MORE CONSISTENT RESULTS WHEN INTERIOR OF PIPE IS WETTED PRIOR

6. WHERE FLEXIBLE PIPE IS USED, CONTRACTOR SHALL TEST ALL MAINLINE PIPE FOR MAXIMUM ALLOWABLE DEFLECTION OF 5% OF OUTSIDE DIAMETER. DEFLECTION TESTS SHALL BE PERFORMED USING A CIRCULAR STEEL BALL ON SLED 1/16-INCH IN DIAMETER SMALLER THAN ALLOWABLE INSIDE DIAMETER OF FLEXIBLE PIPE WHEN DEFLECTED A MAXIMUM OF 5% OF OUTSIDE DIAMETER. DEFLECTION TESTING OF ANY PIPE SHALL BE DONE NO SOONER THAN 30 DAYS AFTER DATE OF INSTALLATION OF PIPE SECTION UNLESS WRITTEN EXCEPTION.

SEWERS SHALL BE LAID WITH STRAIGHT ALIGNMENT BETWEEN MANHOLES. STRAIGHT ALIGNMENT SHALL BE CHECKED EITHER USING A LASER BEAM OR LAMPING. TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY

HAVING JURISDICTION. 8. MANHOLES, WHICH CANNOT BE PROPERLY AIR TESTED, SHOULD BE VISUALLY INSPECTED AND LEAKAGE-TESTED USING INTERNAL OR EXTERNAL HYDROSTATIC PRESSURE. LEAKAGE TESTING SHALL COMPLY WITH REQUIREMENTS OF THE

AUTHORITY HAVING JURISDICTION. 9. IN AREAS WHERE CONVENTIONAL TESTING IS IMPRACTICAL (I.E. AREAS DESIGNATED BY ENGINEER WHERE EXISTING SERVICES ARE TIED INTO NEW LINE IMMEDIATELY AND ANY BLOCKAGE COULD RESULT IN HEALTH PROBLEMS) NO LINES SHALL BE BACKFILLED UNTIL EACH PIPE SECTION AND CONNECTION IS

MAY BE PERFORMED WITH THE PIPE SECTION PARTIALLY BACK-FILLED.

INSPECTED AND APPROVED. 10. WHERE SEWERS ARE CONSTRUCTED OF PRESSURE-RATED PIPE AND INSTALLED WITH LESS THAN 18 INCHES VERTICAL SEPARATION FROM EXISTING OR PROPOSED WATER MAINS, SEWERS SHALL BE HYDROSTATICALLY TESTED AT 150 PSI TO ASSURE WATER TIGHTNESS. HYDROSTATIC ACCEPTANCE TESTS SHALL BE CONDUCTED AS SPECIFIED FOR TESTING WATER MAINS, EXCEPT THAT TESTING

11. IF THE ALLOWABLE RATE OF AIR LEAKAGE IS EXCEEDED, THE CONTRACTOR SHALI LOCATE POINTS OF EXCESSIVE LEAKAGE AND SHALL PROMPTLY CORRECT, REPAIR, AND BRING SYSTEM UP TO THE STANDARD. COSTS OF ALL SUCH REPAIRS AND CORRECTIVE MEASURES, INCLUDING COSTS OF REPEATED TESTS, SHALL BE BORN BY CONTRACTOR, THE SEWER LINE SECTION (INCLUDING MANHOLES AND BUILDING SERVICES) UNDER TEST SHALL NOT BE ACCEPTED UNTIL THESE TEST CRITERIA

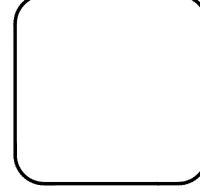
12. SANITARY MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C1244. A VACUUM OF 10 INCHES OF Hg SHOULD BE DRAWN ON THE MANHOLE AFTER ALL HOLES ARE PLUGGED, AND INLETS/OUTLETS ARE TEMPORARILY PLUGGED AND SECURED. THE TIME IS MEASURED FOR THE VACUUM TO DROP TO 9 INCHES Hg. THE MANHOLE IS ACCEPTED IF THE MEASURED TIME MEETS OR EXCEEDS THE VALVES PRESENTED IN TABLE 1 OF ASTM C1244. IF THE MANHOLE FAILS THE INITIAL TEST, IT SHALL BE REPAIRED BY AN APPROVED METHOD UNTIL A SATISFACTORY TEST IS OBTAINED. MANHOLES, WHICH CANNOT BE PROPERLY AIR TESTED, SHOULD BE VISUALLY INSPECTED AND LEAKAGE-TESTED USING INTERNAL OR EXTERNAL HYDROSTATIC PRESSURE. LEAKAGE TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

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COVER PN#00104694

NON-SKID COVER

DESIGN CIRCULAR

RAISED RIB PATTERN

SEALING GASKET

REINFORCEMENT

SECTION

PROVIDE CONCRETE EXTENSION

INLET

\_\_\_

\_\_

APPROVED EQUIVALENT.

HS20-44 VEHICULAR LOADING PLUS 25% IMPACT.

SCALE: NOT TO SCALE

RINGS AS REQUIRED TO SET

MH COVER FLUSH W/

FINISHED GRADE (TYP)

CAULKED-

SANITARY TEE

JOIN1

BAFFLES IN LIEU OF

TO THE CONTRACTOR

SANITARY TEES AS OPTION

12" MIN

INNER COVER

FJ GROUP

SCALE: NOT TO SCALE

4" DIA. CLEAR

**SECTION A/A** 

**ACCEPTABLE MANHOLE STEPS** 

M.A. INDUSTRIES INC\* | **PS2-PF** | 14 3/4 | 9 1/4 | 13 3/4 | 3 3/8 | 5 7/8

1.A. INDUSTRIES INC\* PS2-PFS | 14 3/4 | 8 1/4 | 13 3/4 | 3 3/8 | 4 7/8

MH STEP DESIGN AND INSTALLATION SHALL COMPLY WITH ALL OSHA REGULATIONS

NOTE: CAST IN PLACE

SCALE: NOT TO SCALE

OR PRESS FIT ACCEPTABLE

COPOLYMER POLYPROPYLENE MH STEP

WATERTIGHT/LOCKING CAST IORN MH COVER

FRAME **PN#00120715** 

"A"

**OPENING** 

REQUIRED

SIZE AS ---

TYPICAL MANHOLE WITH FLAT CONCRETE TOP COVER

-FOR SHALLOW MANHOLE WHERE THERE IS

INADEQUATE HEIGHT TO PERMIT THE USE

OF A CONE SECTION, A FLAT CONCRETE

THE CONE SECTION. SIMILARLY, FOR

SITUATIONS REQUIRING RECTANGULAR

INSERTED OR

-INVERT IN OR

INVERT OUT

SEWER PIPE

CAST INTO WALL

-BUTYL ROPE AS

OPENINGS.

TOP COVER SHALL BE SUBSTITUTED FOR

PRIMARY JOINT SEALER (C570)

-FLEXIBLE CONNECTION 8

CONE DIMENSIONS

HEIGHT

24" OR 42

34"

DIAM. OPENING

30"

-FINISHED

GRADE

CEMENT

MORTAR

onmental & Safety Professional Landscape Architects on Planners & Engineers

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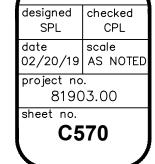
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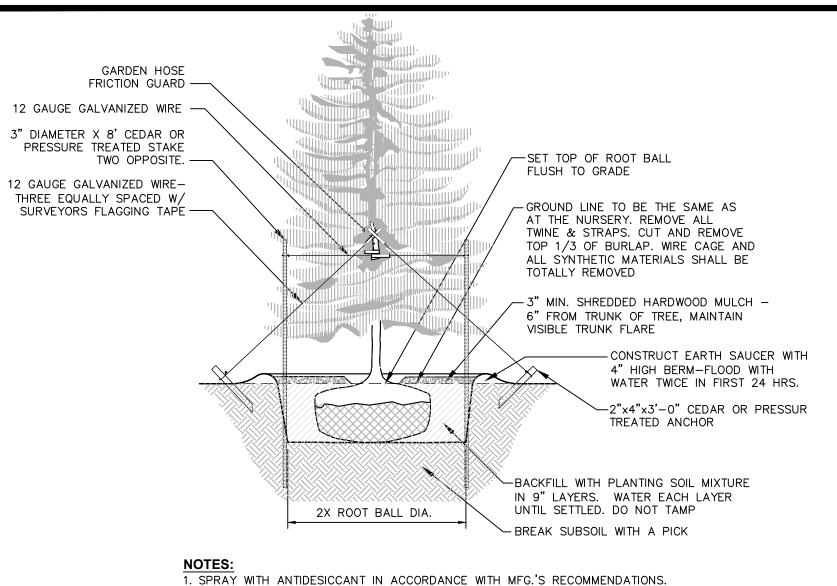
02/20/19 | INITIAL SUBMISSION TO PLANNING BOARD

TOWN OF CORTLANDT, WESTCHESTER COUNTY, NEW YORK

GASLAND CORTLANDT- 2051 & 2053 EAST MAIN STREET (U.S. ROUTE 6)

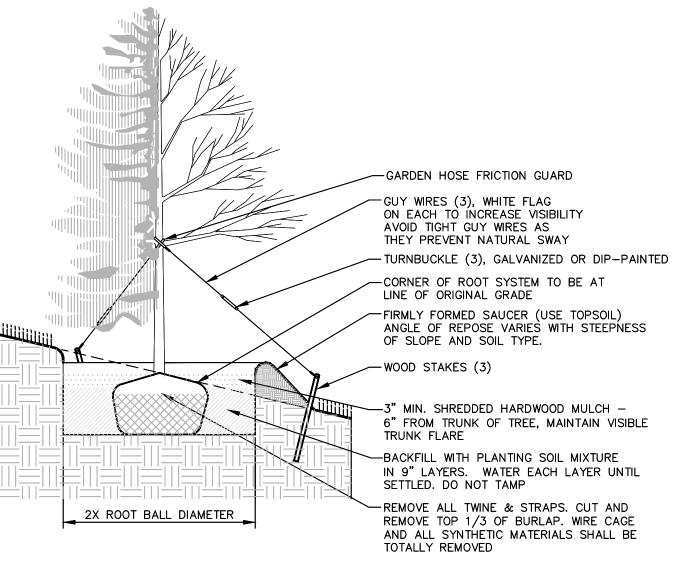
**SANITARY SEWER DETAILS** 



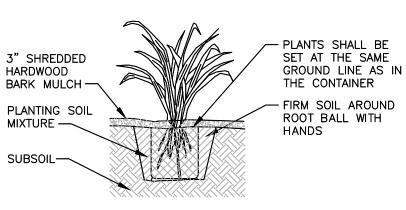


 SPRAY WITH ANTIDESICCANT IN ACCORDANCE WITH MFG.'S RECOMMENDATIONS. 2. TREES LESS THAN 3" CALIPER SHALL BE STAKED. 3. TREES GREATER THAN 3" CALIPER AND UP SHALL BE GUYED AND ANCHORED.

4. STAKES SHALL BE REMOVED AT THE END OF THE FIRST GROWING SEASON AFTER PLANTING. **EVERGREEN PLANTING DETAIL** 



DETAIL SHALL BE UTILIZED FOR DECIDUOUS AND CONIFEROUS TREE PLANTING ON SLOPE. TREE PLANTING ON SLOPE SCALE: NOT TO SCALE



## **SECTIONAL ELEVATION**

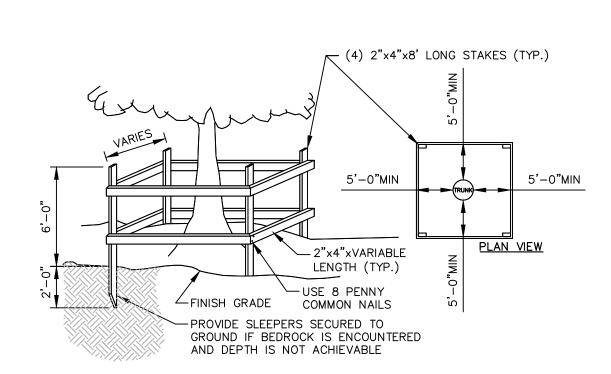
1. SPADED PLANTING SOIL MIX (4"-6" DEPTH), ADD FERTILIZER WHEN MIXING. DO NOT COMPACT ÁFTER PLANTING.

2. WATER THOROUGHLY AFTER PLANTING.

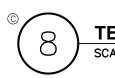
3. PROVIDE WELL DRAINING SUBSOIL WHEN SOIL IS HEAVY OR COMPACTED.

4. PLANTS SHALL BE REMOVED FROM ALL CONTAINERS WHEN PLANTED, UNLESS OTHERWISE STATED IN THE PLANT SCHEDULE.

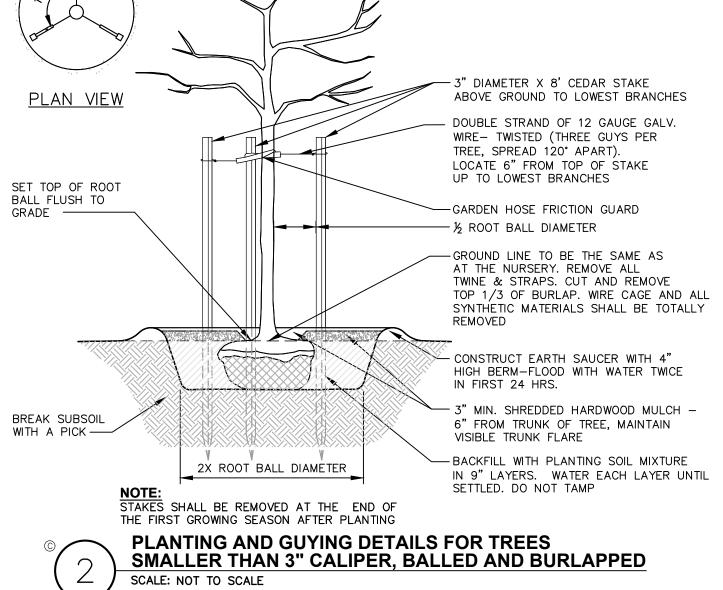
**CONTAINERIZED PERENNIAL PLANTING** SCALE: NOT TO SCALE

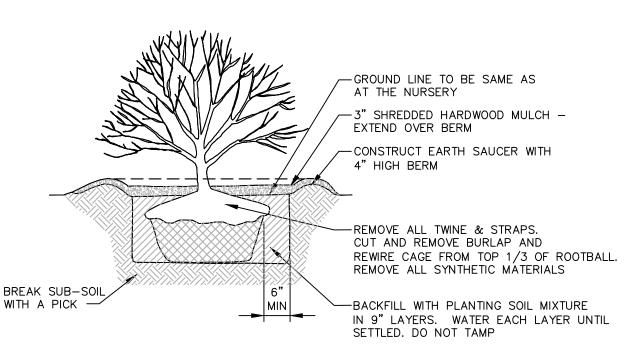


SEE LANDSCAPING PLAN FOR ADDITIONAL TREE PROTECTION NOTES.



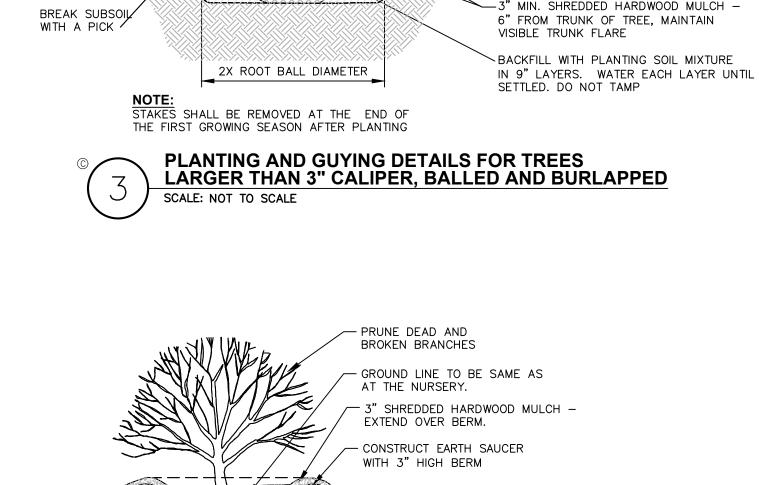
**TEMPORARY TREE PROTECTION DETAIL** SCALE: NOT TO SCALE





SPRAY WITH ANTIDESICCANT IN ACCORDANCE WITH MFG.'S RECOMMENDATIONS IF FOLIAGE IS PRESENT.

SHRUB PLANTING DETAIL FOR ALL SHRUBS BALLED AND BURLAPPED SCALE: NOT TO SCALE



GARDEN HOSE

FRICTION GUARD

IN FIRST 24 HRS.

REMOVE CONTAINER AND BREAK APART

-BACKFILL WITH PLANTING SOIL MIXTURE

IN 9" LAYERS. WATER EACH LAYER UNTIL

ENCIRCLING ROOT MASSES

SETTLED. DO NOT TAMP

-DOUBLE STRAND OF 12 GAUGE GALV.

WIRE- TWISTED (THREE GUYS PER

GROUND LINE TO BE THE SAME AS

AT THE NURSERY. REMOVE ALL TWINE &

BURLAP. WIRE CAGE AND ALL SYNTHETIC

MATERIALS SHALL BE TOTALLY REMOVED

CONSTRUCT EARTH SAUCER WITH 4"

HIGH BERM-FLOOD WITH WATER TWICE

OF ANCHOR FLUSH WITH GROUND. ALL

ANCHORS TO BE DRIVEN OUTSIDE OF

-2"x4"x3'-0" CEDAR OR P.T. ANCHOR; TOP

STRAPS. CUT AND REMOVE TOP 1/3 OF

TREE, SPREAD 120° APART)

SURVEYOR'S FLAGGING TAPE

SPRAY WITH ANTI DESICCANT IN ACCORDANCE WITH MFG.'S RECOMMENDATIONS IF FOLIAGE IS PRESENT.

BREAK SUB-SOIL

WITH A PICK -

SET TOP OF ROOT

BALL FLUSH TO

GRADE ---

SHRUB PLANTING DETAIL FOR CONTAINERIZED SHRUBS SCALE: NOT TO SCALE

#### LANDSCAPING NOTES:

- . THE LANDSCAPE CONTRACTOR SHALL CAREFULLY COORDINATE CONSTRUCTION ACTIVITIES WITH THAT OF THE EARTHWORK CONTRACTOR AND OTHER SITE DEVELOPMENT.
- 2. THE CONTRACTOR SHALL VERIFY DRAWING DIMENSIONS WITH ACTUAL FIELD CONDITIONS AND INSPECT RELATED WORK AND ADJACENT SURFACES. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL FINISH GRADES WITHIN THE WORK AREA. THE CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT/ENGINEER AND OWNER ALL CONDITIONS WHICH PREVENT PROPER EXECUTION OF THIS WORK.
- 3. THE EXACT LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND UNDERGROUND UTILITIES, WHICH MAY NOT BE INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITY SERVICES AND IS RESPONSIBLE FOR THEIR REPLACEMENT IF DAMAGED.
- 4. THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS AT ALL TIMES AND SHALL ARRANGE MATERIAL STORAGE SO AS NOT TO INTERFERE WITH THE OPERATION OF THE PROJECT. ALL UNUSED MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED FROM THE
- . NO TREES OR SHRUBS SHALL BE PLANTED ON EXISTING OR PROPOSED UTILITY LINES.
- 6. QUALITY ASSURANCE: A. NOMENCLATURE: PLANT NAMES SHALL CONFORM TO THE LATEST EDITION OF "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE
- B. SIZE AND GRADING: PLANT SIZES AND GRADING SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. (AAN), UNLESS OTHERWISE SPECIFIED.
- C. NURSERY SOURCE: OBTAIN FRESHLY DUG. HEALTHY, VIGOROUS PLANTS NURSERY GROWN UNDER CLIMACTIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS. PLANTS SHALL HAVE BEEN LINED OUT IN ROWS, ANNUALLY CULTIVATED, SPRAYED, PRUNED AND FERTILIZED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. ALL PLANTS SHALL HAVE BEEN TRANSPLANTED OR ROOT PRUNED AT LEAST ONCE IN THE PAST 3 YEARS, BALLED AND BURLAPPED PLANTS MUST COME FROM SOIL WHICH WILL HOLD A FIRM ROOT BALL. HEELED IN PLANTS AND PLANTS FROM COLD STORAGE ARE NOT ACCEPTABLE.
- D. SUBSTITUTIONS: DO NOT MAKE SUBSTITUTIONS OF TREES AND/OR SHRUB MATERIALS. IF REQUIRED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL. WHEN AUTHORIZED ADJUSTMENTS OF CONTRACT AMOUNT (IF ANY) WILL BE MADE BY CHANGE ORDER.
- 7. SEEDING & PLANTING SEASONS AND TIMING CONDITIONS: A. UNLESS OTHERWISE DIRECTED IN WRITING, SEED LAWNS FROM MARCH 15 TO JUNE 15, AND FROM AUGUST 15 TO OCTOBER 15.
- B. UNLESS OTHERWISE DIRECTED IN WRITING PLANT TREES AND SHRUBS FROM MARCH 15 TO JUNE 1, AND FROM AUGUST 15 TO OCTOBER 30.
- C. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE LAWNS OR PLANTINGS ARE TO BE ESTABLISHED AND WORK IS COMPLETE, SHALL BE RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE; WORK SHALL BE WITHIN THE SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER (TOPSOIL AND TEMPORARY COVER SEED MIX) WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.

A. IMPORTED TOPSOIL: PROVIDE TOPSOIL CONFORMING TO THE

- i. LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADMIXTURE OF SUBSOIL MATERIAL AND FREE OF DENSE MATERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER OBJECTIONABLE MATERIAL.
- ii. CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLING PASSING A 1/4" SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A
- iii. CONTAINING A PH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON
- THAT PORTION OF THE SAMPLE WHICH PASSES A 1/4" SIEVE. iv. CONTAINING THE FOLLOWING WASHED GRADATIONS:

SIEVE DESIGNATION % PASSING 97-100

B. SEED MIXTURE: PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS. PROVIDE THE FOLLOWING MIXTURES:

20-60

## i. <u>LAWN SEED MIX</u>

NO 200

SUN AND PARTIAL SHADE: AMOUNT BY:

MINIMUM % PURITY GERMINATION KENTUCKY BLUE GRASS\* PERENNIAL RYE CREEPING RED FESCUE 97%

\*MINIMUM 2 (EQUAL PROPORTIONS) VARIETIES AS LISTED IN CORNELL RECOMMENDATIONS FOR TURFGRASS.

AMOUNT BY: MINIMUM % KENTUCKY BLUE GRASS\*\* PERENNIAL RYE CREEPING RED FESCUE 97% 85% CHEWINGS RED FESCUE 97% \*\*SHADE TOLERANT VARIETY

ii <u>TEMPORARY COVER SEED MIX</u>

C. LIME: NATURAL LIMESTONE CONTAINING AT LEAST 85% OF TOTAL CARBONATES, GROUND TO SUCH FINENESS THAT AT LEAST 90% PASSES A 10-MESH SIEVE AND AT LEAST 50% PASSES A 100-MESH

D. FERTILIZER:

- FOR STARTER FERTILIZING: COMMERCIAL STARTER FERTILIZER, GRANULAR, NONBURNING PRODUCT CONTAINING 5% NITROGEN, 10% AVAILABLE PHOSPHOROUS, AND 5% WATER SOLUABLE POTASH
- ii. FOR FINAL FERTILIZING: IF APPLIED IN SPRING SEASON, SHALL BE A SLOW RELEASE COMMERCIAL FERTILIZER, GRANULAR, WITH 3-1-2 NPK. IF APPLIED IN FALL SEASON, SHALL BE AS
- SPECIFIED IN (8.D.i) ABOVE. E. TREES, SHRUBS, GROUND COVERS, PERENNIALS, ANNUALS: PLANTING SOIL MIXTURE: SHALL BE PREMIXED IN BULK, AND CONTAIN THE FOLLOWING BY VOLUME:
- 1 PART BONE MEAL . PEAT: BROWN TO BLACK IN COLOR, WEED AND SEED FREE. DRIED SPHAGNUM PEAT, CONTAINING NOT MORE THAN 9% MINERAL ON A
- DRY BASIS AND CONFORMING TO NYSDOT 713-15. iii. BONE MEAL: FINELY GROUND, RAW, MINIMUM 4% NITROGEN AND

20% PHOSPHORIC ACID. IT SHALL BE DELIVERED IN SEALED BAGS

- SHOWING THE MANUFACTURER'S GUARANTEED ANALYSIS. F. STAKES: 8 FEET LONG, 3 INCH DIA. CEDAR OR P.T. WOOD STAKES.
- G. HOSE: NEW, 2-PLY GARDEN HOSE NOT LESS THAN 1/2 INCH IN

30 PARTS TOPSOIL

10 PARTS PEAT

I. WEED CONTROL FABRIC: SOIL CHECK AS MANUFACTURED BY BRIGHTON BYPRODUCTS CO. INC, NEW BRIGHTON, PA; MIRASCAPE OR MIRAFI GEOSYNTHETIC PRODUCTS, NORCROSS, PA, OR APPROVED EQUIVALENT.

- LAWN AREAS OAT OR WHEAT STRAW, FREE OF WEEDS. AN ALTERNATIVE IS WOOD FIBER CELLULOSE IF HYDROSEEDING IS USED.
- i. PLANT BED AREAS
  GROUND OR SHREDDED HARDWOOD BARK, UNCOLORED. NO PIECES OVER 2 INCHES GREATEST DIMENSION. FREE FROM
- A. LANDSCAPE WORK SHALL BE UNDERTAKEN AS SOON AS SITE AREAS ARE AVAILABLE.
- B. TOPSOIL SHALL BE SPREAD NO LESS THAN 4" OVER SUB-GRADE MATERIAL. SOIL AMENDMENTS SHALL BE THOROUGHLY MIXED INTO THE TOP 4" OF TOPSOIL, FOLLOWING THE SPECIFICATIONS STATED BELOW.
- . PERFORM FINE GRADING TO FINISHED ELEVATION ONLY IMMEDIATELY PRIOR TO PLANTING. PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN SURFACE, FREE OF DEPRESSIONS OR RIDGES WITH A UNIFORM LOOSE, FINE TEXTURE.
- D. FERTILIZING: THE SOIL SHALL BE TESTED FOR PH AND LIME ADDED AS NECESSARY. ALL AMENDMENTS SHALL BE CHECKED AND APPROVED BY LANDSCAPE ARCHITECT BEFORE AMENDMENTS ARE
- ii. APPLY FERTILIZER AT RATE OF 4 LBS/1000 SF FOR LAWN AREAS.
- LAWN SEED MIX: SEED AT THE RATE OF 5 TO 6 LBS PER 1,000
- ii. TEMPORARY COVER SEED MIX: SEED AT THE RATE OF 3 TO 4 LBS PER 1,000 SF.
- iii. TEMPORARY COVER SEED MIX TO BE APPLIED ONLY FOR LATE FALL OR SUMMER SOIL STABILIZATION OUTSIDE ALLOWED SEEDING
- F. ALL SEEDED AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING METHODS: i. A UNIFORM BLANKET OF STRAW APPLIED AT A RATE OF 2 TONS/ACRE MIN, TO BE APPLIED ONCE SEEDING IS COMPLETE.
- ii. WOOD FIBER CELLULOSE APPLIED WITH SEED MIX BY A HYDROSEEDER AT A RATE OF 2,000 LBS/ACRE.
- G. ALL SEEDED SLOPES 3:1 OR GREATER SHALL BE PROTECTED FROM EROSION WITH JUTE MESH OR APPROVED EQUAL.
- H. ALL NEWLY PLANTED AREAS SHALL BE KEPT MOIST BY WATERING UNTIL GRASSES AND GROUND COVERS ARE WELL ESTABLISHED. THE LANDSCAPE CONTRACTOR MUST WATER PLANT MATERIAL WHEN NECESSARY FOR 60 DAYS AFTER INSTALLATION.
- I. LAWNS ARE TO BE WARRANTED UNTIL THEY BECOME ESTABLISHED, UNTIL FINAL ACCEPTANCE, AND NOT LESS THAN 60 DAYS AFTER COMPLETION OF ALL WORK. TREES, SHRUBS, GROUND COVERS, AND PERENNIALS SHALL BE WARRANTED AGAINST DEFECTS INCLUDING POOR GROWTH AND DEATH, EXCEPT WHEN RESULTING FROM OWNER NEGLECT, INCIDENTS THAT ARE BEYOND THE CONTROL OF THE LANDSCAPE INSTALLER AND DAMAGE OR ABUSE BY OTHERS, FOR AT LEAST ONE FULL YEAR AFTER PROJECT COMPLETION.

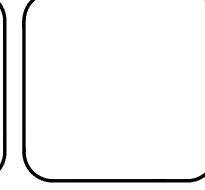
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02/20/19 INITIAL SUBMISSION TO PLANNING BOARD

GASLAND CORTLANDT- 2051 & 2053 EAST MAIN STREET (U.S. ROUTE 6)

LANDSCAPE DETAILS AND NOTES

TOWN OF CORTLANDT, WESTCHESTER COUNTY, NEW YORK

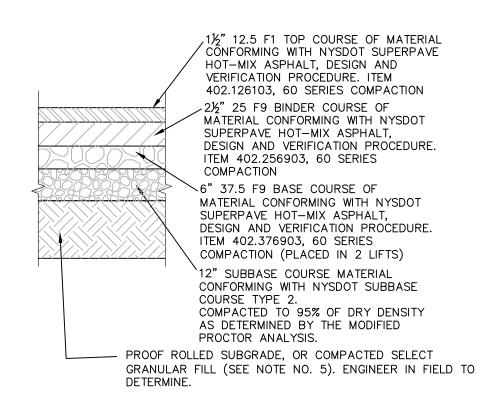
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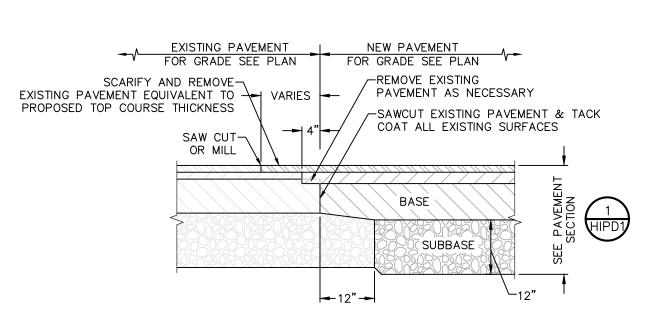
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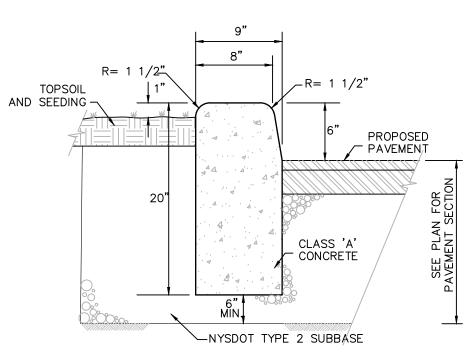
- 1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008, AND ALL ADDENDA THERE TO.
- 2. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. 3. HOT MIX ASPHALT (HMA) PAVEMENT SHALL CONFORM WITH SECTION 400-HOT MIX ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE HOT MIX ASPHALT (HMA) PAVEMENT(S) SPECIFIED FOR THIS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 403-HOT MIX
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- STANDARD SPECIFICATIONS. 5. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
- 6. PAVEMENT SECTION SHOWN IS PRELIMINARY. PRIOR TO BIDDING AND COMMENCEMENT OF CONSTRUCTION, THE FINAL DESIGN OF THE PAVEMENT SECTION MUST BE PREPARED BY A NYS LICENSED PROFESSIONAL ENGINEER AND MUST BE BASED ON A CURRENT GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT. 7. PG BINDER 64E-22 SHALL BE IMPLEMENTED FOR ALL PAVING PROCEDURES.
- 8 STRAIGHT TACK COAT (ITEM 407.0103) SHALL BE APPLIES BETWEEN ALL PAVEMENT LIFTS.
- 9. JOINT ADHESIVE (ITEM 418.7603) SHALL BE APPLIED WHEREVER NEW PAVEMENT WILL ADJOIN EXISTING PAVEMENT.



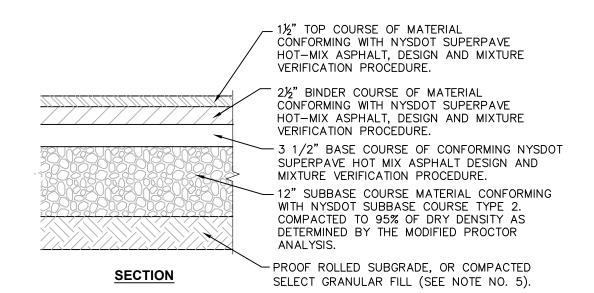
NYSDOT TRAVEL LANE PAVEMENT DETAIL SCALE: NOT TO SCALE





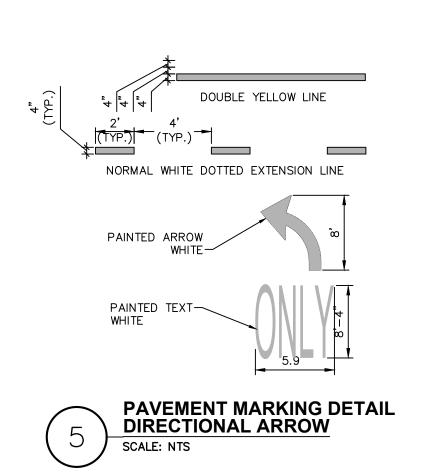






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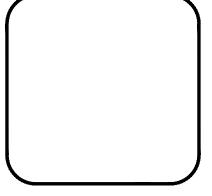
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HIGHWAY IMPROVEMENT PLAN SITE DETAILS

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