## **ABBREVIATIONS**

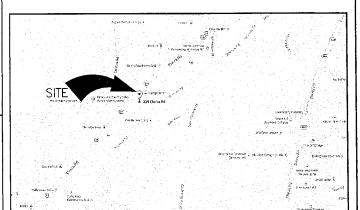
ABOVE FIN FLOOR
ALUMINUM
BOARD
BUILDING
BLOCKING
BOTTOM
CONTROL JOINT
CEILING
CONCRETE MASONRY UNIT
COLUMN
CONCRETE DIAMETER
DIMENSION MATERIAL
MASONRY
MAXIMUM
MEMBRANE
MANUACTURER
MINION
METAL
MULLION
MORTH
NOT TO SCALE
OPENING
PLASTIC LAMINATE
PLYWOOD
PAVEMENT
ROOF DRAIN
REFERENCE
REMFORCING
SANITARY
SUSPENDED
ACOUSTICAL
SIDEWALK
SCHEDULE
SHEETIN
SHEETI DETAIL EXT INSUL AND FIN SYSTEM EXPANSION JOINT ELEVATION ELEVATION
EXPANDED POLYSTYRENE
EQUAL
EXISTING
EXPANSION
EXTERIOR
FINISH
FLOOR
FOOTING
FURRING
GAUGE
GYPSUM WALL BOARD
GYPSUM
HANDICAPPED
HOLLOW METAL
INSULATION

# PROPOSED 4-STORY HOTEL

339 ELMIRA ROAD ITHACA, NEW YORK 14850

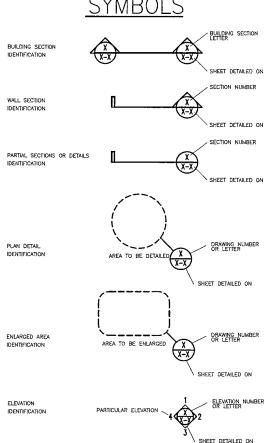
## **DEVELOPER**

JAYESH PATEL 51 ANDERSON ROAD CHEEKTOWAGA, NEW YORK 14225



NOT TO SCALE

# SYMBOLS



## SITE DESIGN ENGINEER

optima

Tri-Main Center & ENGINEERING, PLLC 2495 Main Street, Suite 301 Buffalo, New York 14214 Phone: (716) 803-6400

## **ARCHITECT**

SILVESTRI ARCHITECTS, P.C. 1321 MILLERSPORT HIGHWAY, SUITE 101 AMHERST, NEW YORK 14221



## **CONTRACTOR**

EASTERN HOSPITALITY ASSOCIATES 651 DELAWARE AVENUE BUFFALO, NEW YORK 14221



# FLOOR PLANS EXTERIOR

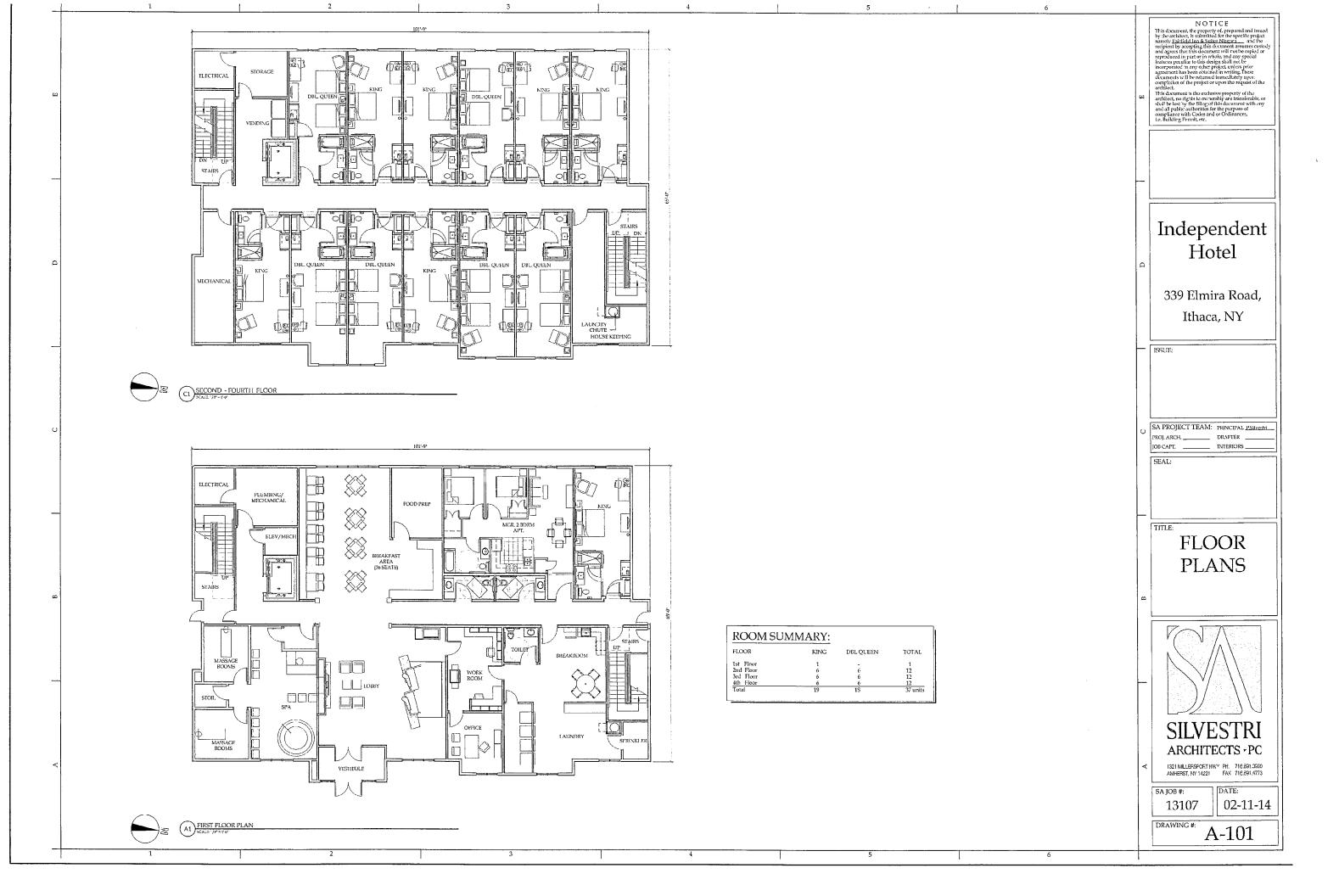
DRAWING INDEX

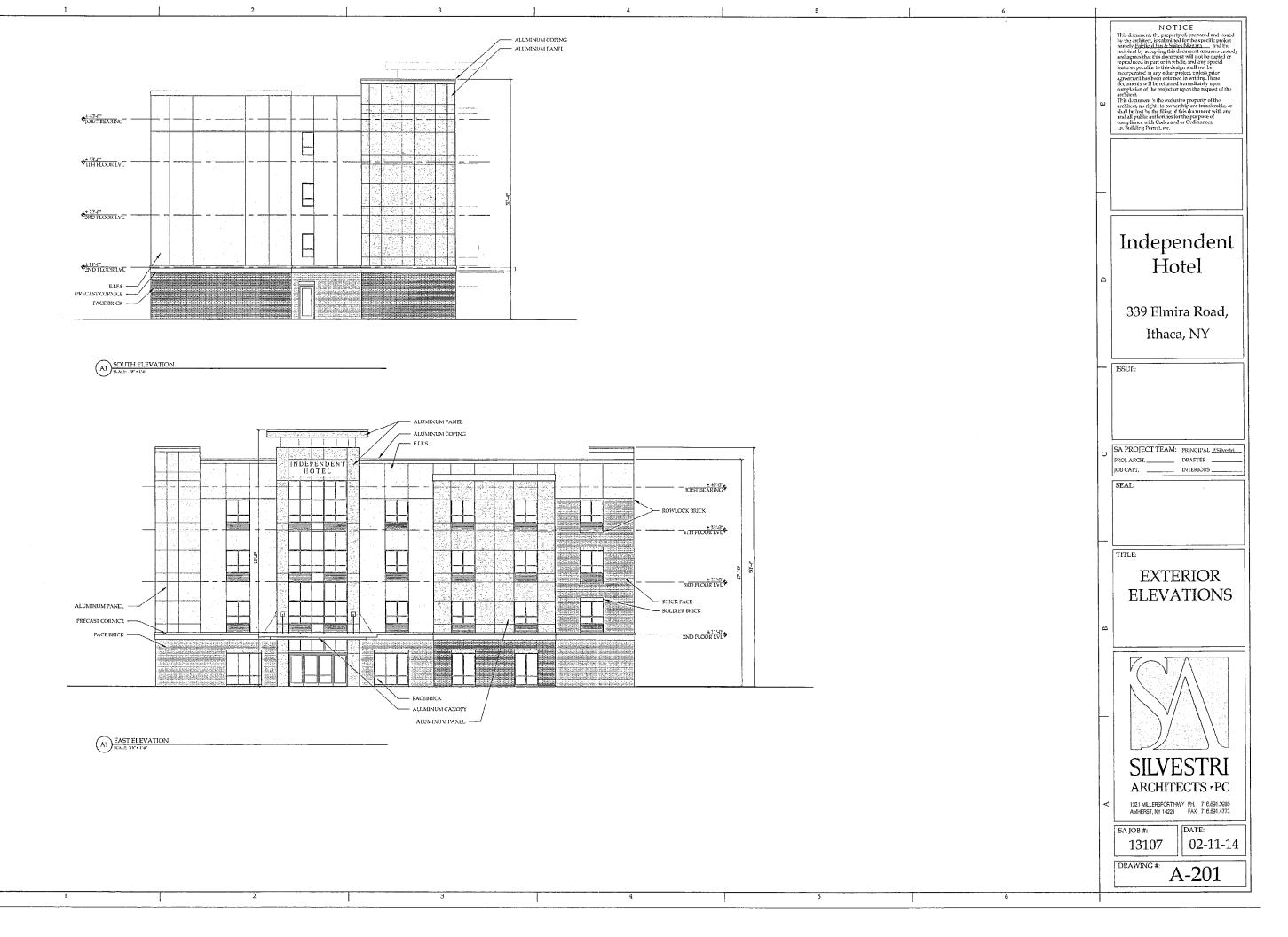
FLOOR FLANS EXTERIOR	A-101
ELEVATIONS EXTERIOR	A-201
ELEVATIONS SITE UTILITY PLAN	A-202
SITE LAYOUT PLAN	C-1.0
DIMENSIONAL SITE PLAN	C-1.1
SITE DETAILS	C-1.2
SITE DETAILS	C-1.3
SITE DETAILS	C-1.4
SITE GRADING PLAN	C-2.0
SITE DRAINAGE PLAN	C-2.1
DRAINAGE DETAILS	C-2.2
SITE UTILITY PLAN	C-3.0
UTILITY DETAILS	C-3.1
UTILITY DETAILS	C-3.2
SITE LANDSCAPE PLAN	C-4.0
SITE DEMOLITION PLAN	C-5.0
EROSION CONTROL PLAN	C-5.1
EROSION CONTROL DETAILS	C-5.2
TOPOGRAPHIC SURVEY	(BY T.G. MILLE

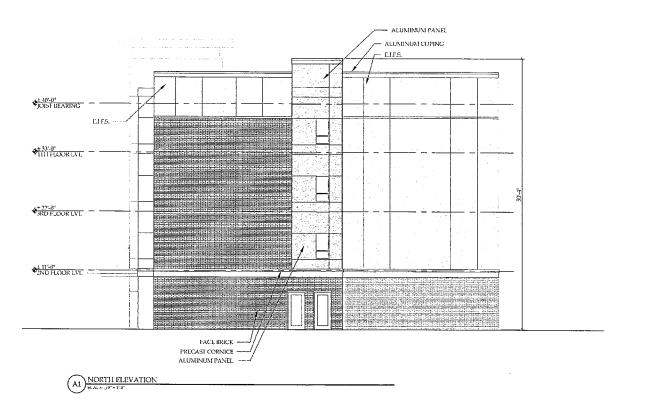
ISSUED FOR SEQR / SITE PLAN REVIEW ON 2/14/14

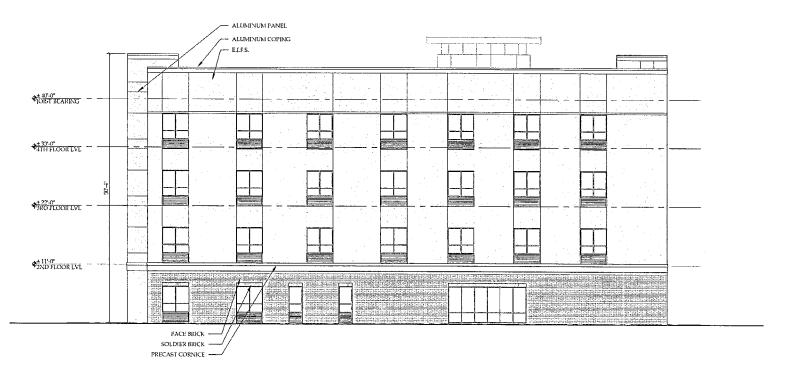
THE CONTRACTOR SHALL CONTACT OPTIMA DESIGN & ENGINEERING BEFORE EXCAVATION & CONSTRUCTION TO ENSURE HE/SHE HAS THE FINAL SET OF DESIGN DOCUMENTS AS ISSUED FOR CONSTRUCTION. THIS PLAN IS CURRENT AS OF THE DATE IT WAS ISSUED. SUBSEQUENT UPDATES OF THIS PLAN BY OPTIMA DESIGN & ENCINEERING DOES NOT AFFORD ANY TRANSFERES THE RIGHT TO RECEIVE SAID UPDATES, BUT PLACES THE RESPONSIBILITY TO THE TRANSFEREE TO OBTAIN UPDATED PLANS WHICH ARE ISSUED FOR CONSTRUCTION AS THESE MAY DIFFER FROM PREVIOUS PLANS ISSUED FOR PERMIT OR BID.











WEST ELEVATION
SCALE:://b\*=1-e\*

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Independent Hotel

339 Elmira Road, Ithaca, NY

ISSUE:

SA PROJECT TEAM: PRINCIPAL P.Silvestri \_\_\_\_ DRAFTER PROJ. ARCH, \_\_\_\_ JOB CAPT. \_\_\_\_ \_\_ INTERIORS \_

SEAL:

TITLE:

**EXTERIOR ELEVATIONS** 



**SILVESTRI** ARCHITECTS - PC

1321 MILLERSPORT HWY PH. 716.891.3900 AMHERST, NY 14221 FAX 716.891.4773

13107

02-11-14

DRAWING #:

A-202

## <u>NOTES</u>

- FOR REFERENCE INFORMATION SEE TOPOGRAPHIC SURVEY PREPARED BY T.G. MILLER P.C., DATED AUGUST 6, 2013, AND IDENTIFIED AS JOB NO. S13555, INCLUDED WITH THIS SET OF SITE PLANS.
- ALL CONSTRUCTION SHALL CONFORM TO CITY OF THACA STANDARDS AND NEW YORK STATE CODE REQUIREMENTS, AS WELL AS THE LATEST A.I.S.C., A.C.I., O.S.H.A., AND A.S.T.M. STANDARDS. WHERE CODES OVERLAP, THE CONTRACTOR SHALL COMPLY WITH THE MORE STRINGENT CODE.
- 3. WHERE A SPECIFIC MANUFACTURER'S PRODUCT IS CALLED OUT ON THIS SHEET OR ANY OTHER PLAN IN THIS SET OF DRAWINGS, THE CONTRACTOR MUST COMPLY WITH THE MANUFACTURER'S LATEST PRINTED INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLATION.
- 4. ALL TEMPORARY OR PERMANENT TRAFFIC CONTROL AND WARNING SIGNS SHALL CONFORM TO N.Y.S.D.O.T. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL MAINTAIN ACCESSIBLE PASSAGEWAYS FOR TRAFFIC AND PEDESTRIANS TO EXISTING BUSINESSES WHICH WILL REMAIN IN OPERATION THROUGHOUT THE DURATION OF THE CONSTRUCTION.
- 6. ANY CAST-IN-PLACE CONCRETE SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATIONS (SECTION 501). USE CLASS "C" FOR DUMPSTER ENCLOSURES, DRIVEWAY APRONS, OR STRUCTURAL SLABS. USE CLASS "D" FOR SIDEWALKS AND ALL OTHER GENERAL PURPOSE CONCRETE PAVEMENT ON SITE. CEMENT USED TO PRODUCE CONCRETE SHALL CONFORM WITH BOTH ACI 318 AND ASTM C1157. CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4-6%.
- ALL CONCRETE CURBS, SIDEWALKS, APRONS, AND PAOS SHALL BE CURED USING A PIGMENTED CURING COMPOUND CONFORMING TO A.S.T.M. C309.
- 8. ANY DEVIATION FROM ANY PLANS IN THIS DRAWING SET REQUIRE APPROVAL OF DESIGN ENGINEER AND THE CITY OF THACA PLANNING AND BUILDING DEPARTMENTS, AS WELL AS THE APPROPRIATE UTILITY COMPANIES AND SERVICE PROVIDERS.
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- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL NECESSARY FEES AND OBTAINING ALL NECESSARY PERMITS PRIOR TO THE START OF CONSTRUCTION, CONTRACT CITY OF THACA BUILDING DEPARTMENT (274—5508) FOR INSTRUCTIONS, PERMIT APPLICATIONS, AND FEES.

# CODE & SITE DATA TOTAL PARCEL = 0.59 ACRES (±25,871 SQ. FT.) ZONED: SW-2

BUILDING SETBACK	REQUIRED	PROVIDED
FRONT	34'-0" MAX. *	22'-5" *
SIDE	10'-0"	10'0"
REAR	10'-0"	10'-0"
PARKING SETBACK	REQUIRED	PROVIDED

10'-0" \*

5'-0"

24'-4" \*

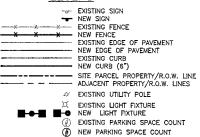
REAR	5'-0"	5'0"	
LANDSCAPE	REQUIRED	PROVIDED	
GREEN SPACE	12%	23%	
PARKING	REQUIRED	PROVIDED	
PROPOSED	37 SPACES	37 SPACES	
HANDICAP	2 SPACES	2 SPACES	

FRONT

PROP. BLDG. FOOTPRINT =  $\pm 3,567$  SQ. FT. (GROSS) TOTAL # OF GUEST ROOMS = 37 MIN. LOT AREA REG'D = 3,000 SQ. FT. ACTUAL LOT AREA =  $\pm 25,871$  SQ. FT. ACTUAL LOT AREA =  $\pm 25,871$  SQ. FT. MAX. ALLOWABLE BUILDING HEIGHT =  $60^{\circ}$ –0° PROPOSED BUILDING HEIGHT =  $54^{\circ}$ –0°

\* FROM FACE OF CURB WITHIN RIGHT-OF-WAY

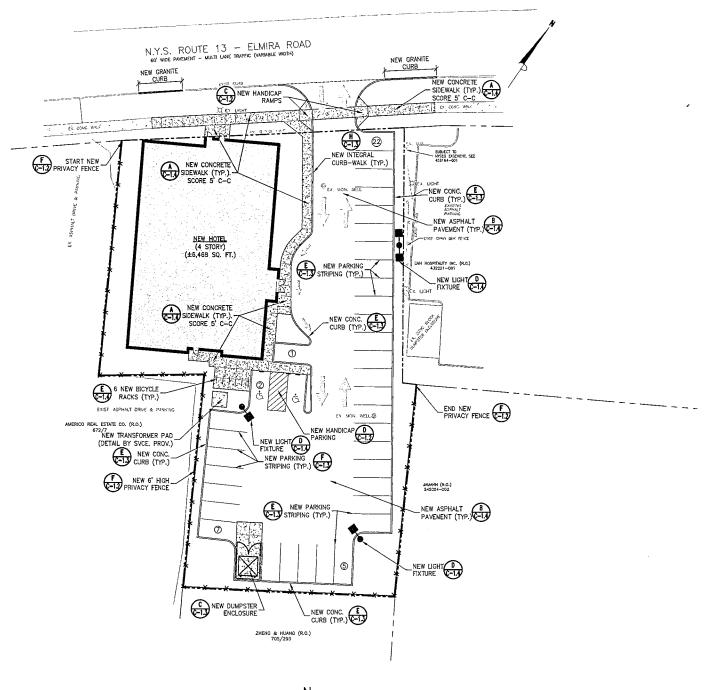




(#) NEW PARKING SPACE COUNT

TRAFFIC DIRECTIONAL ARROW (NOT PAINTED ON PVMNT.)

EXISTING CONCRETE AREAS



SITE LAYOUT PLAN

SCALE : 1"= 20'-0"

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SITE LAYOUT PLAN

A ISSUED FOR SEOR REV. 2/14/13



DRAWN BY: AVT CHECKED BY: OST JOB # 13-160

MARING: IT IS A WOLATION OF SECTION 7209, SUGDINISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER IN SECTION AND WAY, PLANS, SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER INS. BEEN APPLIED.

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SIDE	10'-0"	10'0"
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REQUIRED

PROVIDED

FRONT	10'-0" *	24'-4" *	
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REAR	5'-0"	5'-0"	
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\* FROM FACE OF CURB WITHIN RIGHT-OF-WAY

## <u>LEGEND</u>

-X EXISTING FENCE
-X NEW FENCE
-X NEW FENCE
-X EXISTING EDGE OF PAVEMENT
-X NEW EDGE OF PAVEMENT
-X EXISTING CURB
-X NEW CURB (6")

SITE PARCEL PROPERTY/R.O.W. LINE
ADJACENT PROPERTY/R.O.W. LINES

EXISTING UTILITY POLE

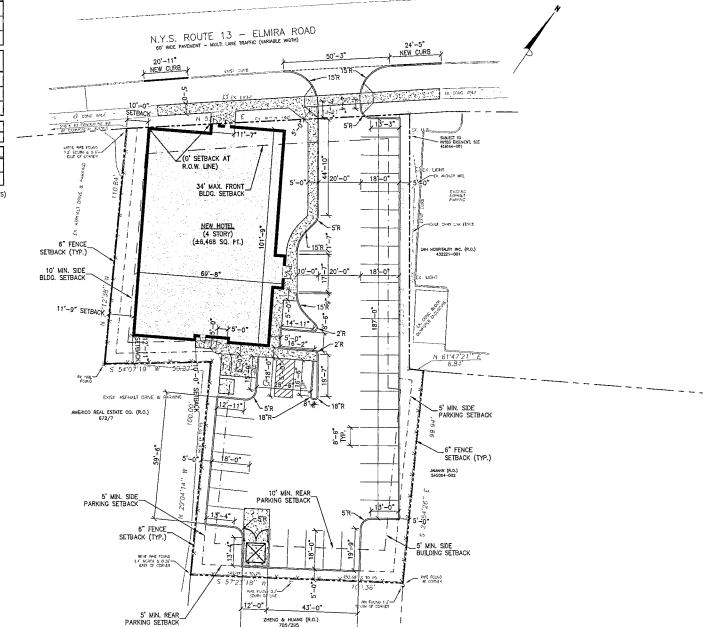
EXISTING UTILITY POLE

EXISTING LIGHT FIXTURE

. EXISTING CONCRETE AREAS

WARNAG: IT IS A VIOLATION OF SECTION 7209, SUBDIMSION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATION, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATION, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATION, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATION, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN ANY WAY, PLANS, SPECIFICATION, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DISINSER, TO ALIEN IN A

NEW CONCRETE AREAS



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STAMP/SEAL

STAMP/SEAL

A ISSUED FOR SEOR REV. 2/14

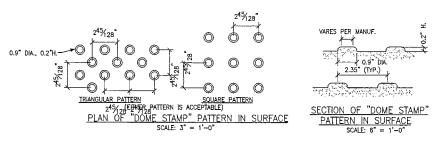
DIMENSIONAL SITE PLAN



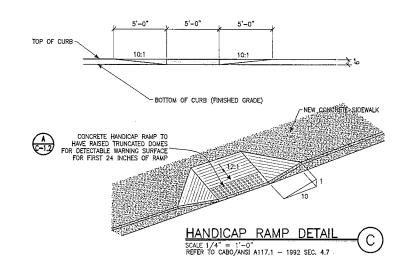
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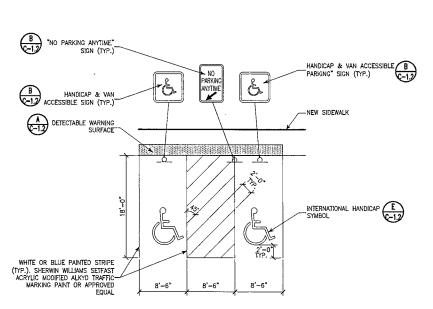
SCALE : 1"= 20'-0"

DIMENSIONAL SITE PLAN

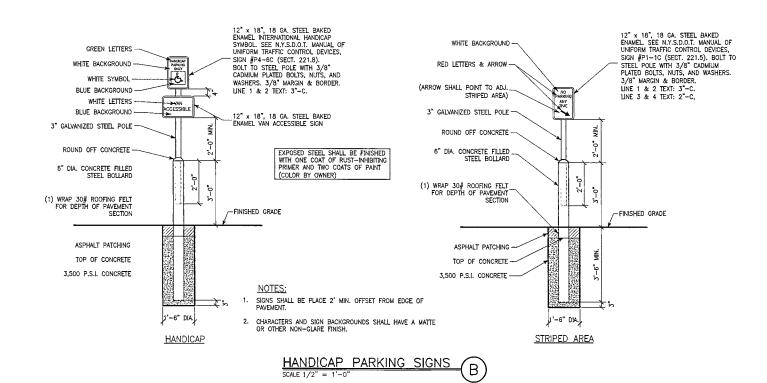


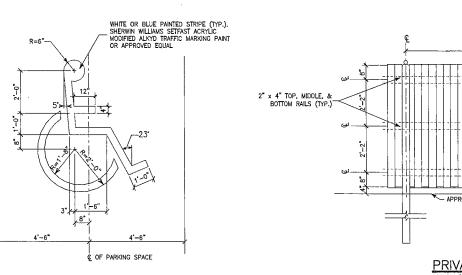
DETECTABLE WARNING SURFACE DETAILS



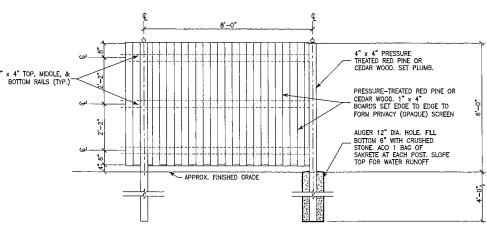


HANDICAP PARKING STRIPING DETAIL





INTERNATIONAL HANDICAP SYMBOL SCALE 1/2" = 1'-0"
NOTE: REFER TO ICCI/ANSI A117.1



PRIVACY FENCE DETAIL SCALE 1/2" = 1'-0"

NOTE: ALL WOOD TO BE PRESSURE TREATED AGAINST DECAY, ALL FASTENERS TO BE GALVANIZED

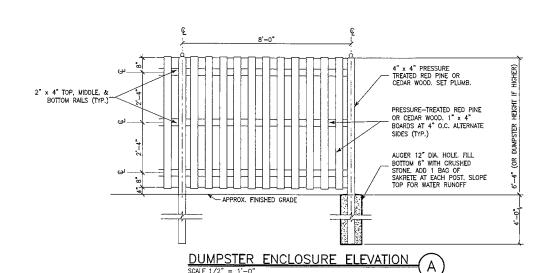
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A ISSUED FOR SEOR REV. 2/14/13

SITE DETAILS



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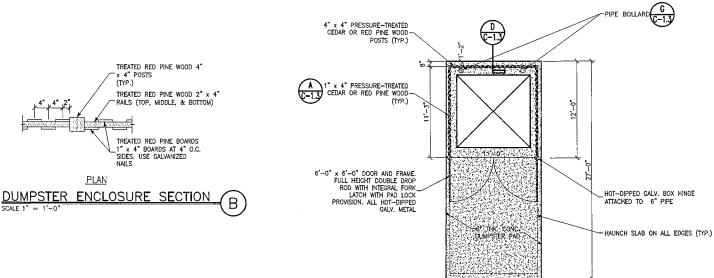


ALL WOOD TO BE PRESSURE TREATED AGAINST

FINISHED GRADE

TREATED RED PINE WOOD 4"
-x 4" POSTS
(TYP.) TREATED RED PINE WOOD 2" x 4" TREATED RED PINE BOARDS \_1" x 4" BOARDS AT 4" O.C. SIDES, USE GALVANIZED <u>PLAN</u>

TOP OF CURB ELEVATION REFERS TO THIS POINT



DUMPSTER ENCLOSURE DETAIL

CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED, PROVIDE PROPER CONCRETE PROTECTION IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN CONFORMANCE WITH ALL A.C.I. REQUIREMENTS.

TOP OF CURB ELEVATION REFERS TO THIS POINT

Syg

PVMNT

BOTTOM OF CURB ELEVATION REFERS TO THIS POINT

---TACK COAT PRIOR TO PAYING

COMPACT EXIST, SUBGRADE AS

DIRECTED BY OWNER'S ON-SITE GEOTECH. ENGINEER

POURED-IN-PLACE OR MACHINE-FORMED CONCRETE.

SIDEWALK SCORING).

3,500 P.S.I. MIN. (CONFORMING TO NYSDOT SECT. 501 CLASS "A" OR APP. EQUAL). PROVIDE 2" DEEP CONTROL JOINTS 5' C-C MIN. (OR TO MATCH

2" SAW-CUT-

APPROVED EQUAL)

BUCKEYE ULTRAFIBER 500 FIBERMESH & 2-Ibs PER CU. FT.

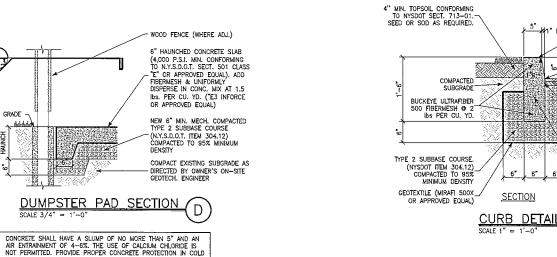
GEOTEXTILE (MIRAFI 500X

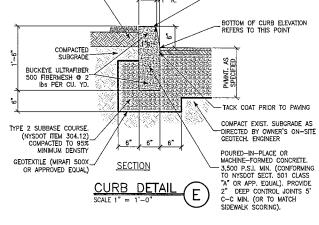
TYPE 2 SUBBASE COURSE. (NYSDOT ITEM 304.12) COMPACTED TO 95% DENSITY MIN.

OR APPROVED FOLIALL

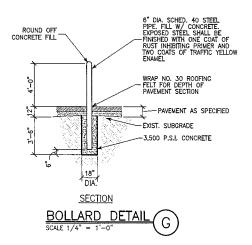
ADD FIBERMESH & UNIFORMLY DISPERSE IN CONC. MIX AT 1.5 lbs. PER CU. YD.—

(BUCKEYE ULTRAFIBER 500 OR









SCALE 1" = 1'-0 NOTE: 1. PROVIDE DOWELS @ 12" C-C INTO FOUNDATION WHERE SIDEWALK ABUTS AGAINST BUILDING WALL (AT DOOR ENTRANCES ONLY) TO PREVENT FROST HEAVING. AT OTHER AREAS WHERE

INTEGRAL CURB-WALK DETAIL H

SECTION

SIDEWALK ABUTS AGAINST BUILDING WALL PROVIDE 1/2" PRE-MOLDED EXPANSION JOINT WITH BACKER ROD AND SEALANT.

CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED. PROVIDE PROPER CONCRETE PROTECTION IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN CONFORMANCE WITH ALL A.C.I. REQUIREMENTS.



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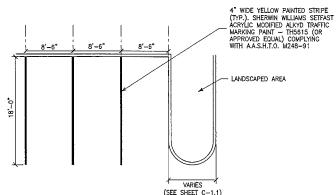
M

A ISSUED FOR SEOR REV. 2/14/13

SITE DETAILS



DRAWN BY: AVT CHECKED BY: OST C - 1.3JOR # 13-160

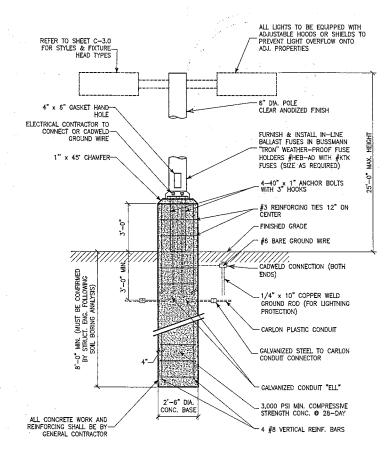


WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN CONFORMANCE WITH ALL A.C.I. REQUIREMENTS.

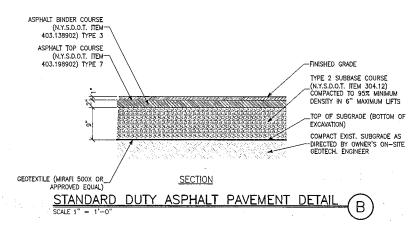
90° PARKING STRIPE LAYOUT DETAIL SCALE 1/8'' = 1'-0'

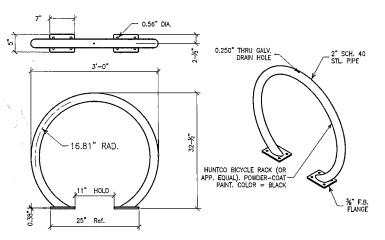
WARNING: IT IS A WOLITION OF SECTION 7209, SUBDIMISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNITES ACTING UNDER THE DIRECTION OF A LICENSED ACRITECT OR PROFESSIONAL ENGINEER TO ALTER IN ANY WAY, PLANS, SPECE/ACTIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER VAS PREVIOUS TO A LICENSED ACRITICATION OF A LICENSED ACRITICATION OF SECTION 7209, SUBDIMISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNITESS ACTING UNDER VAS PREVIOUS TO A LICENSED ACRITICATION OF SECTION 7209, SUBDIMISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNITESS ACTING UNDER VAS PREVIOUS TO A LICENSED ACRITICATION OF SECTION 7209, SUBDIMISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNITESS ACTING UNDER THE DIRECTION OF A LICENSED ACRITICATION OF A LICENSED A

- NOTES:
- ALL CONCRETE FOR SIDEWALKS SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATION 501. CONSTRUCTION SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATION 608-3.
- ALL CONCRETE AREAS SHALL BE SCORED 5' (OR AS NOTED ON SHEET C-1.1) ON CENTER WITH TOOLED TRANSVERSE CONTROL JOINTS 1-1/2 INCHES DEEP. ALL SCORED JOINTS SHALL BE SAW-CUT WITHIN 24 HOURS OF POURING CONCRETE
- 3. EXPANSION JOINTS IN CONCRETE AREAS SHALL BE NO MORE THAN 25' ON CENTER AND AT INTERFACES BETWEEN DRIVEWAYS, SIDEWALKS, SLABS, AND FOUNDATIONS.ALL SIDEWALK EDGES SHALL BE TOOLED AND SHALL HAVE A 1/4—INCH EDGE RADIUS SAW—CUT WITHIN 24 HOURS OF POURING CONCRETE. INSTALL FELT BOARD EXPANSION JOINT. SCORE FELT AND REMOVE TO DEPTH OF ½" BELOW SLAB. PROVIDE SEAL WITH ½" INCH PRE—MOLDED RESILIENT JOINT FILLER AT ALL EXPANSION JOINTS.
- 4. PROVIDE DOWELS @ 12" C—C INTO FOUNDATION WHERE SIDEWALK ABUTS AGAINST BUILDING WALL (AT DOOR ENTRANCES ONLY) TO PREVENT FROST HEAVING. AT OTHER AREAS WHERE SIDEWALK ABUTS AGAINST BUILDING WALL PROVIDE 1/2" PRE-MOLDED EXPANSION JOINT WITH BACKER ROD AND SEALANT.
- 5. IN DRIVEWAY AREAS CONCRETE THICKNESS SHALL BE INCREASED TO 6 INCHES.
- 6. CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED. PROVIDE PROPER CONCRETE PROTECTION IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN CONFORMANCE WITH ALL A.C.I. REQUIREMENTS.

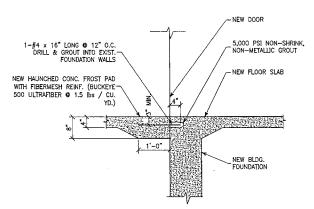


LIGHT FIXTURE DETAIL





TYP. BICYCLE RACK DETAIL E SCALE 1" = 1'-0"
CALL HUNTCO (800-547-5909) TO ORDER OR FOR NEAREST LOCAL DISTRIBUTOR



SIDEWALK ABUTTING FOUNDATION AT DOORS

NOTES:

1. PROVIDE DOWELS ⑤ 12" C-C INTO FOUNDATION WHERE SIDEWALK ABUTS ACAINST BUILDING WALL (AT DOOR ENTRANCES ONLY) TO PREVENT FROST HEAVING. AT OTHER AREAS WHERE SIDEWALK ABUTS AGAINST BUILDING WALL PROVIDE ½" PRE-MOLDED EXPANSION JOINT WITH BACKER ROD AND SEALANT.

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SITE DETAILS



WANNAGE IT IS A VOLATION OF SECTION 7209, SUBDINSION 2, OF THE NEW YORK STATE EDUCATION LAW FOR MAY PERSON, UNLESS ACTING UNDER THE DRECTION OF A LICENSED ARCHITECT OF PROFESSIONAL DIGINER, TO ALTER IN MAY WAY, PLANS, SPECEFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DIGINER, TO ALTER IN MAY WAY, PLANS, SPECEFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DIGINER, TO ALTER IN MAY WAY, PLANS, SPECEFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DIGINER, AND A LICENSED ARCHITECT OR PROFESSIONAL DIGINER, TO ALTER IN MAY WAY, PLANS, SPECEFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DIGINER, TO ALTER IN MAY WAY, PLANS, SPECEFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL DIGINER, AND A LICENSED ARCHITECT OR PROFESSIONAL DIGINERAL DIGIN

## NOTES

- FOR REFERENCE INFORMATION SEE TOPOGRAPHIC SURVEY PREPARED BY T.G. MILLER P.C., DATED AUGUST 6, 2013, AND IDENTIFIED AS JOB NO. \$13555, INCLUDED WITH THIS SET OF SITE PLANS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL UNDERGROUND UTILITY LOCATIONS AND DEPTHS PRIOR TO THE START OF EXCAVATION.
- ALL SOIL FILL AREAS SHALL BE PLACED IN 8" MAXIMUM LIFTS. FILL SHALL NOT BE PLACED ON FROZEN SOIL
- 4. ALL FILL AREAS BENEATH PAVED AREAS SHALL BE COMPACTED TO A MINIMUM 95% DENSITY IN 6" MAXIMUM LIFTS AS DETERMINED PER ASTM D 1557.
- WHEREVER POSSIBLE, EXCAVATED TOPSOIL SHALL BE STOCKPILED ON SITE AND RE-USED DURING LANDSCAPING AS NECESSARY.
- BEFORE CONSTRUCTION BEGINS, A CERTIFIED LICENSED CEDTECHNICAL ENGINEER SHOULD CONDUCT A FOUNDATION AND SOIL INVESTIGATION IN CONFORMANCE WITH SECTIONS 1802.2 THOUGH 1802.6 OF THE NEW YORK STATE BUILDING CODES. ALL CONSTRUCTION, FILL, AND SITE PREPARATION SHALL MEET OR EXCEED ALL SPECIFICATIONS AND RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT.
- FUTURE LAWN AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES PRIOR TO PLACEMENT OF TOPSOIL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL NECESSARY FEES AND OBTAINING ALL NECESSARY PERMITS PRIOR TO THE START OF CONSTRUCTION. CONTACT CITY OF ITHACA BUILDING DEPARTMENT (274-6508) FOR INSTRUCTIONS, PERMIT APPLICATIONS, AND FEES.

## **LEGEND**

 EXISTING EDGE OF PAVEMENT NEW EDGE OF PAVEMENT EXISTING CURB = NEW CURB (6") SITE PARCEL PROPERTY / R.O.W. LINE
ADJACENT PROPERTY / R.O.W. LINES LIMIT OF GRADING
CENTERLINE OF NEW SWALE p EXISTING UTILITY POLE EXISTING LIGHT POLE X.X% SURFACE FLOW DIRECTION & SLOPE SURFACE FLOW DIRECTION

EXISTING CATCH BASIN

NEW CATCH BASIN

EXISTING WANHOLE

NEW YARD DRAIN

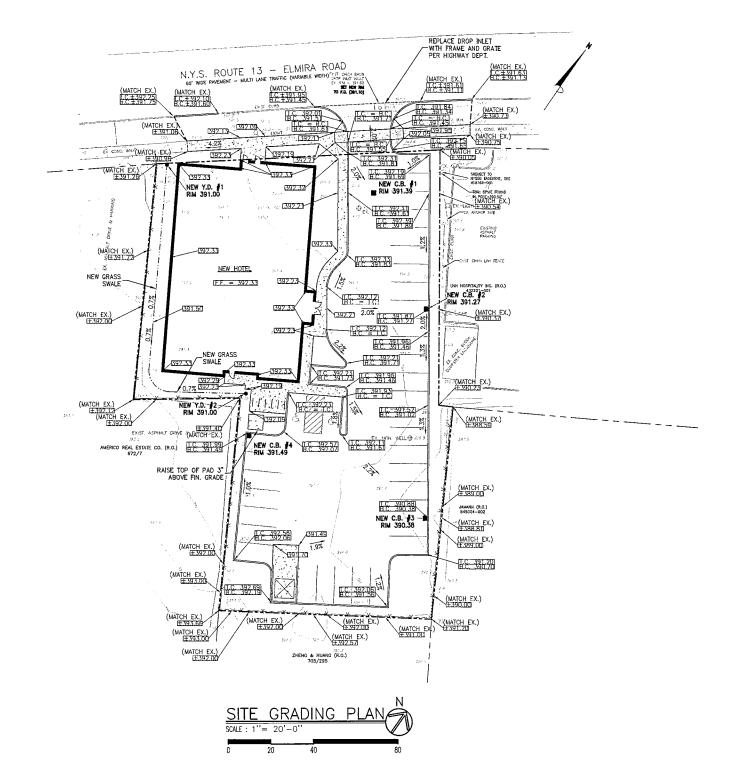
EXISTING CONTOUR LINE

EXISTING SPOT ELEVATION

EXISTING SPOT ELEVATION

CONTOUR PROPERTY. IC XXXXXI TOP OF CURB ELEVATION BOTTOM OF CURB XXX.XX NEW SPOT ELEVATION

MARING: IT IS A VIOLATION OF SECTION 7203, SUBDIMSION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER, TO ALTER IN ANY MAY, PLANS, SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER HAS BEEN APPLIED.



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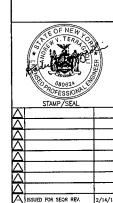
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SITE GRADING PLAN



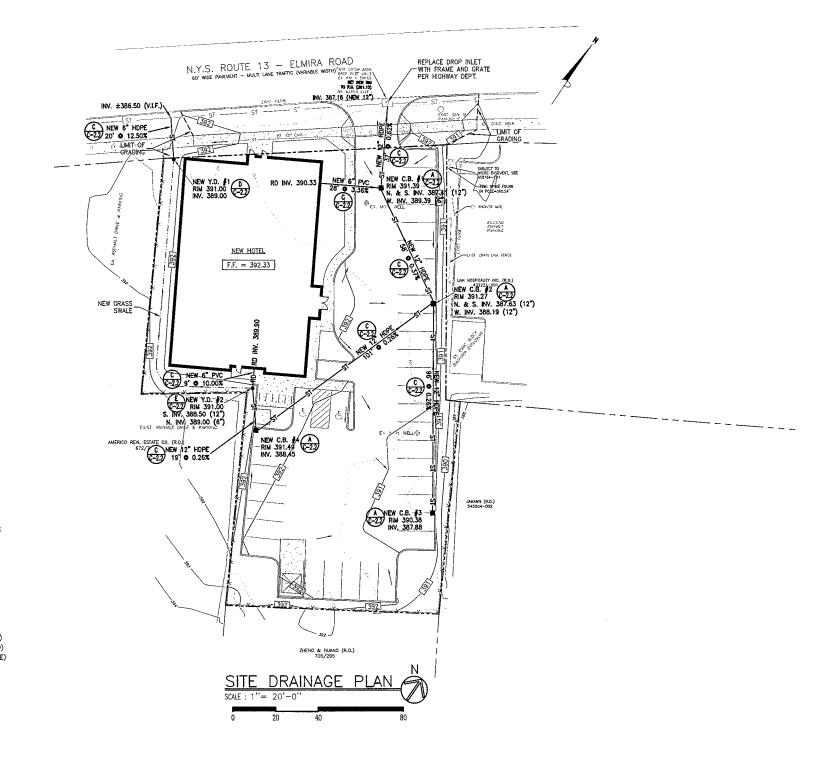
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- 1. FOR REPERENCE INFORMATION SEE TOPOGRAPHIC SURVEY PREPARED BY T.G. MILLER P.C., DATED AUGUST 6, 2013, AND IDENTIFIED AS JOB NO. S13555, INCLUDED WITH THIS SET OF SITE PLANS.
- 2. FOR REFERENCE ALSO SEE ARCHITECTURAL AND PLUMBING PLANS FOR EXACT LOCATIONS AND DEPTHS OF ROOF DRAIN LEADER CONNECTIONS AT BUILDING
- THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR STORM SEWER SYSTEM FAILURE DUE TO LACK OF INSPECTION OR MAINTENANCE.
- THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR ANY UTILITIES NOT SHOWN ON THIS PLAN OR ANY ACCIDENTAL RUPTURES DURING EXCAVATION OR CONSTRUCTION.
- 5. ALL NEW ROOF DRAIN LATERALS SHALL BE 6" DIAMETER PVC SDR-35 CONFORMING TO ASTM D 2665, ASTM D 3034, ASTM F 891, CSA-B182.2, OR CAN/CSA-B182.4.
- 6. ALL NEW HOPE STORM SEWERS SHALL BE ADS N-12 OR APPROVED EQUAL, CONFORMING TO ASTM F 405. HOPE STORM SEWERS SHALL MEET OR EXCEED ASSHTO M294 STANDARDS.
- 7. ALL PIPE FITTINGS SHALL CONFORM TO ASTM D 2609, ASTM D 2464, ASTM D 2466, ASTM D 2467, CAN/CSA-B137.2, OR ASTM D 2665.
- 8. THE GENERAL CONTRACTOR SHALL PERFORM ALL APPLICABLE TESTS AS REQUIRED BY THE LOCAL PLUMBING AND BUILDING DEPARTMENT, AS WELL AS TESTS REQUIRED IN THE N.Y.S. PLUMBING CODE SECTIONS 312.2 THRU 312.9.
- ALL JOINTS OR JOINT SYSTEMS FOR NEW STORM SEWERS SHALL BE SILT TIGHT, AND SHALL RESIST INFILTRATION OF SOIL PARTICLES THAT PASS THE NO. 200 SIEVE. IF GEOTEXTILE WAP IS SPECIFIED FOR USE IN JOINTS, IT SHALL MEET AASHTO MASS, WITH AN APPARENT OPENING SIZE (AOS) GREATER THAN 7.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL NECESSARY FEES AND OBTAINING ALL NECESSARY PERMITS PRIOR TO THE START OF CONSTRUCTION. CONTACT CITY OF THACA BUILDING DEPARTMENT (274-6508) FOR INSTRUCTIONS, PERMIT APPLICATIONS, AND FEES.

## LEGEND

EXISTING EDGE OF PAVEMENT NEW EDGE OF PAVEMENT EXISTING CURB
NEW CURB (6") PROPERTY / R.O.W. LINES ------ CENTERLINE OF NEW SWALE -RD- NEW ROOF DRAIN LATERAL ST - EXISTING STORM SEWER -ST - NEW STORM SEWER S EXISTING UTILITY POLE → SURFACE FLOW DIRECTION ☐ EXISTING CATCH BASIN
■ NEW CATCH BASIN O EXISTING MANHOLE NEW YARD DRAIN -XXX - EXISTING CONTOUR LINE (TO REMAIN) -xxx -FORMER CONTOUR LINE (RE-GRADED) -XXX NEW CONTOUR LINE (FINISHED GRADE)

WARNING; IT IS A WOLATION OF SECTION 7209, SUBDINSION 2, OF THE NEW YORK STATE EDUCATION LAW FUR ANY PERSON, UNLESS ACTING UNDER HIS BEEN APPLIED
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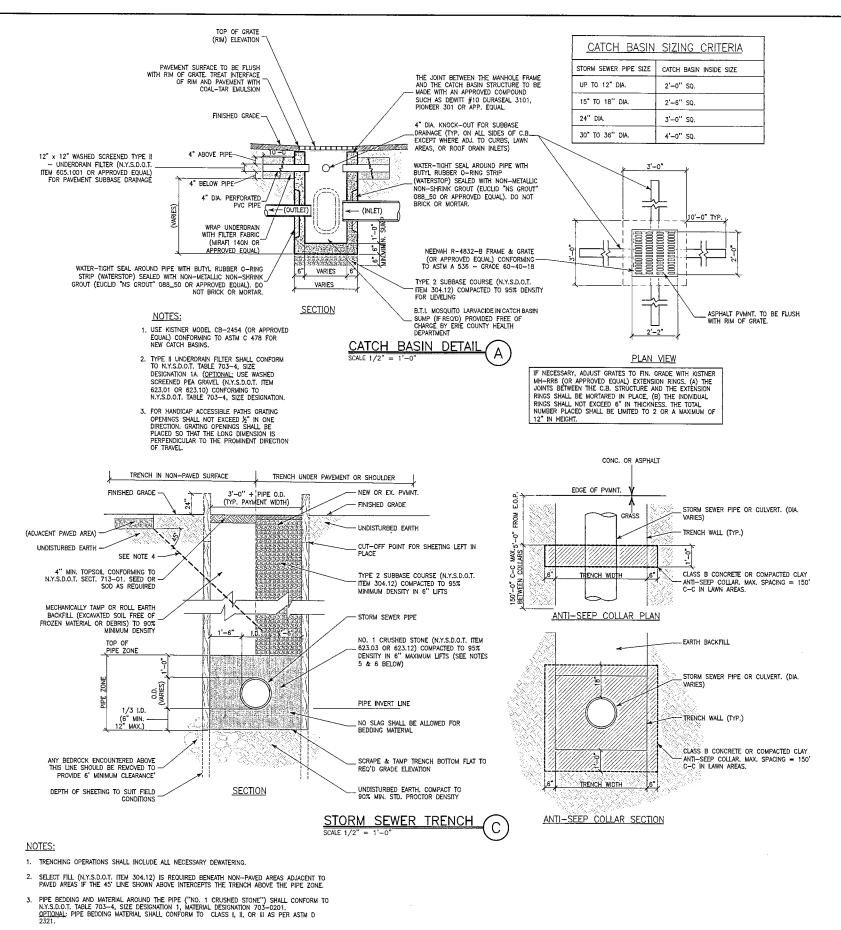
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SITE DRAINAGE PLAN

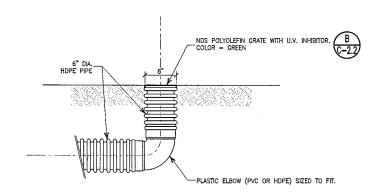


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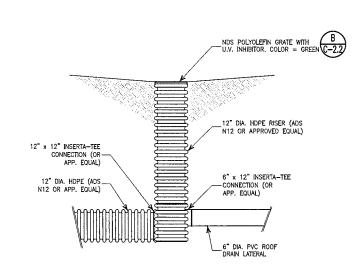


# NDS POLYCLEFIN GRATE WITH U.V. INHIBITOR. COLOR = GREEN. ORDER FROM KNS SUPPLY AT (716) 759-6911. DIA. NDS PART NO. 12" #13 6" #50

YARD DRAIN GRATE DETAIL B

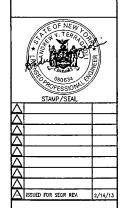


INLINE YARD DRAIN DETAIL D



YARD DRAIN DETAIL E

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DRAINAGE DETAILS

Optima
Design & Price Rennin, Pilo
Tri-Main Center
2495 Main Street, S
Bullinio, New York 1
Phone: (\*16) 803-66
Faux (\*16) 810-950

N BY: AVT KED BY: OST # 13-160 C-2.2

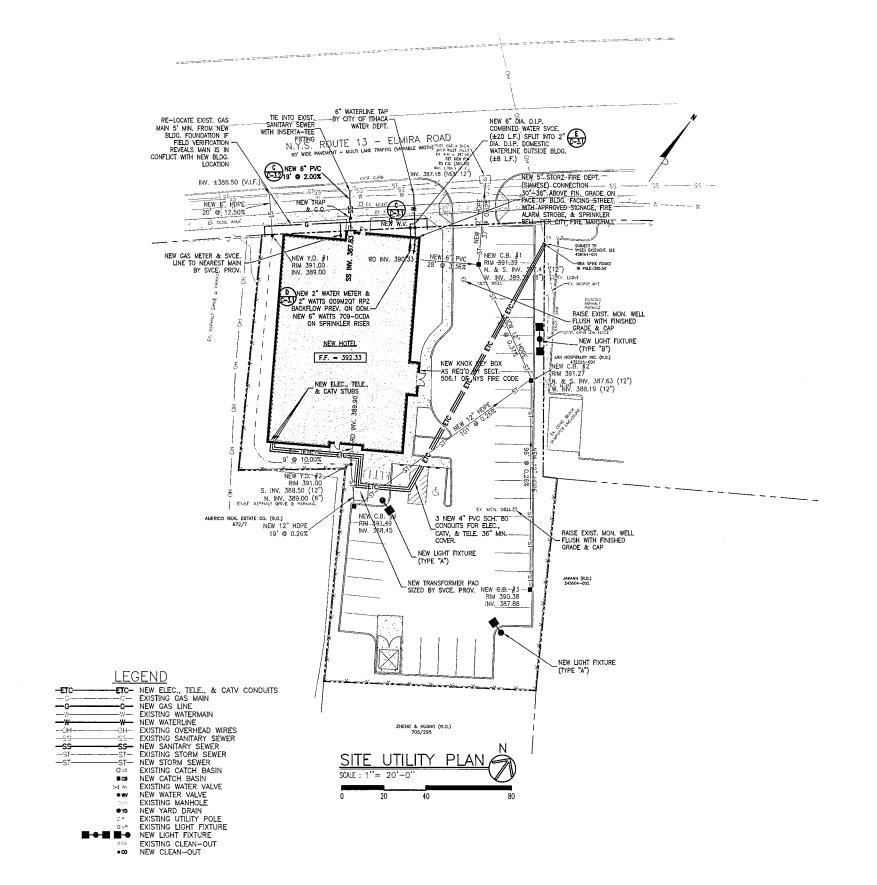
4, COMPACTED CLAY OR CLASS B CONCRETE ANTI-SEEPAGE COLLARS SHALL BE USED IN GRASS AREAS TO ELIMINATE THE POSSIBILITY OF PIPE UNDERMINING DUE TO SEEPAGE THROUGH THE

PIPE ZONE, (SEE DETAIL RIGHT)

 IF SOFT MATERIALS OF POOR LOAD—BEARING QUALITY ARE FOUND AT THE BOTTOM OF THE TRENCH, STABILIZATION SHALL BE ACHIEVED BY EXCAVATING A MINIMUM OF TWO PIPE DIAMETERS AND BACKFILLING TO THE PIPE INVERT WITH PIPE BEDDING AND COMPACTING TO 95% DENSITY AS IN NOTE 5 ABOVE.

## **NOTES**

- FOR REFERENCE INFORMATION SEE TOPOGRAPHIC SURVEY PREPARED BY T.G. MILLER P.C., DATED AUGUST 6, 2013, AND IDENTIFIED AS JOB NO. S13555, INCLUDED WITH THIS SET OF SITE PLANS
- 2. FOR REFERENCE ALSO SEE EXACT UTILITY CONNECTION LOCATIONS AND DEPTHS ON ARCHITECTURAL, MECHANICAL, ELECTRICAL, H.V.A.C., AND PLUMBING PLANS.
- 3. EXISTING SERVICE UTILITY CONNECTIONS TO BE ABANDONED OR DISCONTINUED SHALL BE SHUT OFF BY THE RESPECTIVE UTILITY AGENCY PRIOR TO THE START OF WORK.
- Existing underground utility lines to remain which are uncovered by excavation shall be adequately supported and protected during earthwork activities.
- THE CONTRACTOR SHALL PROMOE SLEEVES THROUGH NEW FOUNDATION WALLS AS NECESSARY FOR PROTECTING EXISTING AND PROPOSED UTILITY LINES.
- . THE EXISTING WATERLINE SHALL BE FIELD VERIFIED, DISCONNECTED, CAPPED, AND ABANDONED IN PLACE AS DIRECTED BY THE CITY OF THACA WATER DEPARTMENT. CALL (607) 272—1717 FOR INSTRUCTIONS AND PROCEDURES.
- MAINTAIN A MINIMUM 18 INCHES OF VERTICAL SEPARATION BETWEEN THE OUTSIDE DIAMETER OF NEW WATERLINES AND THE OUTSIDE DIAMETER OF ALL OTHER UNDERGROUND UTILITIES.
- THE CITY OF ITHACA WATER DEPARTMENT SHALL PERFORM ALL WATER LINE WORK FROM TAP IN POINT ON THE WATERMAIN TO THE VALVES ON THE RIGHT—OF—WAY LINE.
- AS PER SECTION 104.1 OF THE NEW YORK STATE MECHANICAL CODE, ALL NEW GAS, TELEPHONE, CABLE TV, AND ELECTRICAL UTILITIES SHALL BE DESIGNED, SIZED, AND INSTALLED BY THE RESPECTIVE UTILITY AGENCIES.
- ALL NEW WATER LINE PIPING SHALL BE INSTALLED WITH A MIN. 4"-0" DEPTH OF COVER. ANY MECHANICAL JOINTS ON WATERLINES (IF USED) SHALL BE MADE IN CONFORMANCE TO ASTM D 3139 OR AWAWA C111. JOINTS BETWEEN DIFFERENT PIPING MATERIALS SHALL CONFORM TO ASTM D 1869 OR ASTM F 477.
- THE FIRE PROTECTION LINE SHALL BE INSPECTED, TESTED, AND MAINTAINED IN CONFORMANCE WITH NFPA 25, AS PER SECTION 508.5.3 OF THE NEW YORK STATE FIRE CODE.
- 12. THE NEW BACKFLOW PREVENTION DEVICES SHALL BE PRIVATELY OWNED AND MAINTAINED.
- THE NEW WATER METER SHALL BE SUPPLIED, INSTALLED, OWNED, AND MAINTAINED BY THE CITY OF ITHACA WATER DEPARTMENT.
- ALL NEW WATER SERVICE LINES SHALL BE DISINFECTED IN CONFORMANCE WITH A.W.W.A. SPECIFICATION C-651 PRIOR TO THE BEGINNING OF SERVICE.
- THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR ANY UTILITIES NOT SHOWN ON THIS PLAN OR ANY ACCIDENTAL RUPTURES DURING EXCAVATION OR CONSTRUCTION.
- 16. ALL NEW SANTARY SEWERS SHALL BE PVC (SDR-JS) AND SHALL CONFORM TO ASTM D 3034, ASTM D 2655, ASTM D 2949, ASTM F 891, CSA B182.2, OR CAN/CSA-B182.4 STANDAROS, ALL NEW SANTARY SEWER FITTINGS SHALL CONFORM TO ASTM D 2661, ASTM D 3311, ASTM 628, OR ASTM D 2665, ALL COMPRESSION GASKETS FOR HUB AND SPIGOT PIPE AND FITTINGS SHALL CONFORM TO ASTM D 5041.2 564.
- ALL DUCTILE IRON WATERLINES SHALL BE CLASS 51 MINMUM, AND SHALL MEET OR EXCEED
  THE LATEST ANSI / AWWA C151 / A21.51 OR C115 SPECIFICATIONS, AS WELL AS NSF 61.
  ALL DUCTILE IRON WATERLINES SHALL ALSO BE CEMENT—MORTAR LINED IN CONFORMANCE WITH
  AWAYA C104
- ALL NEW WATERLINES, VALVES, AND APPURIENANCES THAT ARE IN CONTACT WITH POTABLE WATER SHALL BE NSF/ANSI 61 CERTIFIED. ALL DUCILLE IRON PIPE FITTINGS SHALL CONFORM TO AWAY C110 AND C153.
- 19. A CERTIFIED BACKFLOW PREVENTION DEVICE TESTER RETAINED BY THE OWNER SHALL APPROVE AND CERTIFY SATISFACTORY INSTALLATION OF THE DEVICE WITHIN 45 DAYS OF THE INSTALLATION. THE COMPLETED DOH-1013 FORM SHALL BE SUBMITTED TO THE NEW YORK STATE HEALTH DEPARTMENT AND ERIE COUNTY WATER AUTHORITY WITHIN 30 DAYS OF TESTING THE DEVICE.
- 20. AN ANNUAL TEST TO CERTIFY THE DEMCE MEETS THE REQUIREMENTS OF AN ACCEPTABLE CONTAINMENT DEMCE SHALL BE COMPLETED BY A N.Y.S. CERTIFIED TESTER ON A YEARLY BASIS AND SUBMITTED TO THE NEW YORK STATE HEALTH DEPARTMENT AND ERIE COUNTY WATER AUTHORITY WITHIN 30 DAYS OF TESTING THE DEVICE.
- 21. THE CAS SERVICE PROVIDER SHALL SUPPLY, INSTALL, OWN, AND MAINTAIN THE NEW GAS METER. THE GAS SERVICE PROVIDER SHALL ALSO TAP, INSTALL, AND OWN THE NEW SERVICE LINE FROM MAIN TO NEW METER. THE CONTRACTOR SHALL CONTACT THE CAS SERVICE PROVIDER FOR INSTRUCTIONS, COORDINATION, INSPECTION APPOINTMENTS, PERMIT APPLICATIONS, AND FEES.
- 22. THE ELECTRIC SERVICE PROVIDER SHALL SUPPLY THE NEW ELECTRIC METER. THE ELECTRIC CONTRACTOR SHALL INSTALL THE REW ELECTRIC METER AND ELECTRIC CONDUITS IN COCODINATION WITH THE ELECTRIC SERVICE PROVIDER, WHO SHALL TAP THE REW SERVICE TO THE EXISTING UTILITY POLE. THE CONTRACTOR SHALL CONTACT THE ELECTRIC SERVICE PROVIDER FOR INSTRUCTIONS, COORDINATION, INSPECTION APPOINTMENTS, PERMIT APPLICATIONS, AND FEES.
- 23. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 12" VERTICAL SEPARATION DISTANCE BETWEEN CAS AND BLECTRIC LINES AND NEW WATER-INCES, STORM, OR SANTARY SEMERS, ALL NEW UNDERGROUND UTILITIES SHALL PASS BEBEATH EXISTING ELECTRIC AND GAS LINES UNLESS CONSENT IS OTHERMISE GIVEN BY THE SERVICE PROVIDER OR EASEMENT OWNER.
- THE GENERAL CONTRACTOR SHALL PERFORM ALL APPLICABLE TESTS AS REQUIRED IN THE N.Y.S.
  PLUMBING CODE SECTIONS 312.2 THRU 312.9 AND AWWA C600.
- ANY PLAIN END DUCTILE IRON WATERLINE PIPE SHALL BE JOINED TO FLANGED FITTINGS USING UNI-FLANGE UFA400 ADAPTER FLANGES OR APPROVED EQUAL
- DUCTILE IRON WATERLINES WITH MECHANICAL JOINTS SHALL BE RESTRAINED USING UNI-FLANGE SERIES 1400 OR SERIES 1450 RESTRAINERS OR APPROVED EQUAL.
- ALL JOINTS OR JOINT SYSTEMS FOR SANITARY SEMERS OR LATERALS SHALL BE WATER TIGHT
  TO LIMIT LEAKAGE TO A MAXIMUM RATE OF 100 GALLONS PER INCH-DIAMETER PER MILE PER
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL NECESSARY FEES AND OBTAINING ALL NECESSARY PERMITS PRIOR TO THE START OF CONSTRUCTION. CONTACT CITY OF ITHACA BULDING DEPARTMENT (274-6508) FOR INSTRUCTIONS, PERMIT APPLICATIONS, AND FEES.



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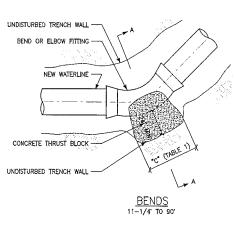
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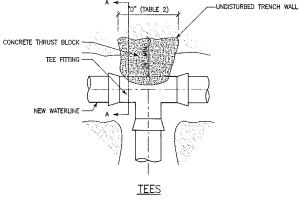
SITE UTILITY PLAN

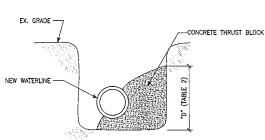


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WANNING IT IS A WIGNATION OF SECTION 7209, SUBDIMSION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DRECTION OF A LICENSED ARCHITECT OF PROFESSIONAL DIGNEER, TO ALTEN IN ANY WAY, PLANS, SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OF PROFESSIONAL DIGNEER HAS BEEN APPLET







-NEW 1-1/2" DIA. TYPE 'K' COPPER PIPE CENTER VALVE BOX ON PROPERTY LINE FOR NEW TAPS FROM EXISTING -CURB STOP -FINISHED GRADE NEW 1-1/2" DIA. TYPE 'K' COPPER PIPE CORPORATION STOP TAPPED INTO WATERMAIN. ADD SERVICE SADDLE WHERE
NECESSARY. SIZE AS DIRECTED BY CITY OF
ITHACA WATER DEPARTMENT NEW 6" DIA. WATERLINE -TEMPORARY BLOW-OFF / SAMPLING POINT DETAIL B

NEW VALVE BOX COVER SHALL BE LABELED

MUELLER COMPRESSION STOP

3000 PSI CONCRETE BLOCK

UNDISTURBED EARTH

PROVIDE M.J. WEDGE ACTION RETAINER

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# -EX. GRADE UNDISTURBED TRENCH WALL -CONCRETE THRUST BLOCK END CAP 24" MIN. END PLUGS

TABLE

8" 0.07

"C" DIM.

CONC. (CU. YD.)

11 1/4-22 1/2 22 1/2 -45 45 - 67 1/2 67 1/2 - 90

6" 0.07 11" 0.14 15" 0.21 22" 0.28

PIPE DIA. (inches)

CONC. (CU. YD.)

0.03

DIM.

SECTION	'Δ-Δ'

	TABLE 2			
PIPE DIA.	"C"	CONCRETE V		
(inches)	DIM.	TEE & END PLUG	BEND	
6	0-9	0.06	0.13	
8	1-2	0.18	0.25	

- 1. AFTER COMPLETION OF TEST, REPLACE CORPORATION STOP IN SERVICE SADDLE WITH A THREADED BRASS PLUG.
- 2. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS.
- 3. ALL BLOW-OFF VALVES SHALL BE DESIGNED AND LOCATED WHERE DIRECTED BY THE CITY OF ITHACA WATER

# THRUST BLOCK DETAILS

(CU. YD.

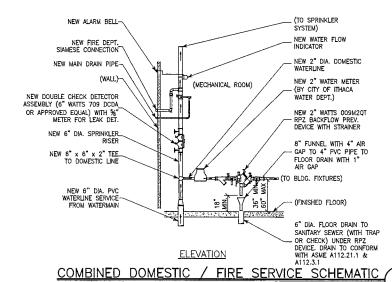
## NOTE:

"C" CONC. DIM. (CU. YD.)

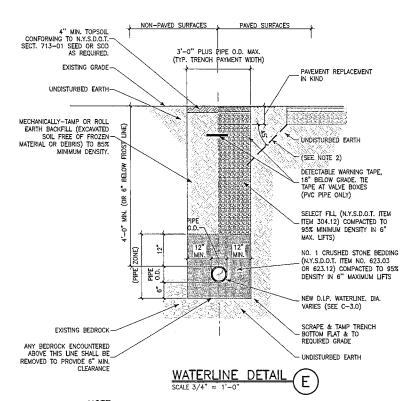
THRUST BLOCK TO BE PLACED SO AS TO ALLOW REMOVAL OF MECHANICAL JOINT BOLTS OR SUP-ON PIPE. CLASS "A" CONCRETE 5 DAY CURE BEFORE PRESSURE TEST HIGH EARLY CLASS "F" 2 DAY CURE BEFORE PRESSURE TEST.

"C" DIM.

12" 0.10 15" 0.14



- LIGHT SHALL BE SUPPLIED IN THE MECHANICAL ROOM TO SERVICE THE BACKFLOW PREVENTION DEVICES.
- HEAT SHALL BE SUPPLIED IN THE MECHANICAL ROOM TO PREVENT THE BACKFLOW PREVENTION DEVICES FROM FREEZING.
- THE FLOOR DRAIN SHALL BE KEPT CLEAR AND UNOBSTRUCTED AT ALL TIMES.



NOTES:

FINISHED GRADE

#1 CRUSHED STONE FOR

NEW WATERLINE-

لمهاكر

1000 A

1. VALVE SHALL NOT SUPPORT VALVE BOX.

WATER VALVE & VALVE BOX DETAIL

- SELECT FILL (N.Y.S.D.O.T. ITEM 304.12) IS REQUIRED FOR FULL DEPTH UNDER DRIVEWAYS, ROAD CROSSINGS, AND IF THE 45' LINE SHOWN ABOVE INTERCEPTS THE TRENCH ABOVE THE PIPE ZONE.
- PIPE BEDDING AND MATERIAL AROUND THE PIPE ("NO. 1 CRUSHED STONE") SHALL CONFORM TO N.Y.S.D.O.T. TABLE 703-4, SIZE DESIGNATION 1, MATERIAL DESIGNATION 702-0201. <a href="https://doi.org/10.108/j.j.j.j.j.gov/">OPTIONAL</a>; CLASS 1, II, OR III MATERIALS AS PER ASTM D 2321
- IF SOFT MATERIALS OF POOR LOAD-BEARING QUALITY ARE FOUND AT THE BOTTOM OF THE TRENCH, STABILIZATION SHALL BE ACHIEVING BY EXCAVATING A MINIMUM OF TWO PIPE DIAMETERS AND BACKFILLING TO THE PIPE INVERT WITH PIPE BEDDING AND COMPACTING TO 95% DENSITY AS IN NOTE 5 ABOVE.



UTILITY DETAILS



DRAWN BY: AVT CHECKED BY: OST JOB # 13-160 C-3.1

WARNER IT IS A WOLUTION OF SECTION 7209, SUBGONSION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNICES ACTING UNCEST THE DIRECTION OF A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER, TO ALIER IN ANY WAY, PLANS. SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER, TO ALIER IN ANY WAY, PLANS. SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER, TO ALIER IN ANY WAY, PLANS. SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER, TO ALIER IN ANY WAY, PLANS. SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER, TO ALIER IN ANY WAY, PLANS. SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER, TO ALIER IN ANY WAY, PLANS. SPECIFICATIONS, OR REPORTS TO WHICH THE SEAL OF A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER.

# SANITARY CLEAN-OUT DETAIL

- FINISHED GRADE

SCALE 1/2'' = 1'-0''NOTES:

BRASS SCREW PLUG CLEAN-OUT

SHALL BE EMBOSSED "SANITARY

NEW 6" CAST IRON CLEAN-OUT

WITH PVC (SDR 35) ADAPTOR

- IN TRAFFIC AREAS A CONCRETE COLLAR SHALL BE POURED AROUND THE CLEAN—OUT.
- CLEAN-OUTS SHALL BE LOCATED NOT MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEAN-OUT.

DETECTABLE METALLIC WARNING TAPE 12" BELOW FINISHED GRADE OR 6" BELOW SUBGRADE UNDER PAVED AREAS. (SEE NOTE 10) FINISHED GRADE SUITABLE MATERIAL FROM EXCAVATIONS OR SELECT BACKFILL COMPACTED TO 92% MINIMUM DENSITY. (SEE NOTE NO. 1) MIN. , PIPE O.D. , MIN. NO. 1 CRUSHED STONE (N.Y.S.D.O.T. ITEM NO. 623.03 OR 623.12)\_ COMPACTED TO 95% DENSITY IN 6"

(SEE NOTE 10) -

SUITABLE MATERIAL FROM EXCAVATIONS OR SELECT BACKFILL COMPACTED TO 92% MINIMUM

NO. 1 CRUSHED STONE (N.Y.S.D.O.T. ITEM NO. 623.03 OR 623.12).

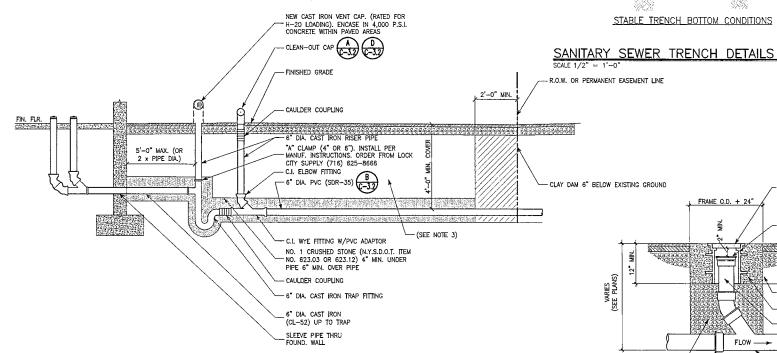
COMPACTED TO 95% DENSITY IN 6"
MAXIMUM LIFTS TYPE 2 SUBBASE COURSE (N.Y.S.D.O.T. ITEM 304.12 COMPACTED TO 95%

DENSITY. (SEE NOTE NO. 1)

MINIMUM DENSITY

MAXIMUM LIFTS

STABLE TRENCH BOTTOM CONDITIONS



SANITARY SEWER LATERAL DETAIL

## NOTES:

- 1. THE SERVICE LATERAL MUST BE INSTALLED A MINIMUM OF 10" ABOVE THE BASEMENT FLOOR, (IF BUILDING CONTAINS A BASEMENT). WHERE LOCAL BUILDING ORDINANCES REQUIRE A GREATER DISTANCE, THE CONTRACTORS ARE TO COMPLY WITH THE MORE STRINGENT.
- 2. PVC PIPE MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST A.S.T.M. SPECIFICATION D-3033/D-3034. CAST IRON PIPE MATERIAL SHALL BE EXTRA HEAVY CAST IRON MEETING THE REQUIREMENTS OF A.S.T.M. A74-42.
- 3. SELECT BACKFILL (TYPE 2 SUBBASE COURSE) REQUIRED UNDER PAVED AREAS.
- CONCRETE ENCASEMENT IS REQUIRED FOR SEWERS WITH LESS THAN 4 FEET OF COVER UNDER PAVED AREAS.
- 5. BEDDING MATERIAL AND MATERIAL AROUND PIPE ("NO. 1 CRUSHED STONE") SHALL CONFORM TO THE GRADATION IN N.Y.S.D.O.T. TABLE 703—4, SIZE DESIGNATION 1, MATERIAL DESIGNATION 702—0201. OPTIONAL: PIPE BEDDING MATERIAL SHALL CONFORM TO CLASS I, II, OR III AS PER ASTM D 2321.

## BRASS SCREW PLUG - CLAY DAM 6" BELOW EXISTING GROUND CLEAN-OU FRAME O.D. + 24 -EXPANSION JOINT WITH FIBERBOARD \_4,000 P.S.I. CONCRETE ENCASE TO FULL DEPTH OF FRAME -6" CAST IRON CLEAN-OUT FLOW -TYPE 2 SUBBASE COURSE. (N.Y.S.D.O.T. ITEM 304.12 OR APPROVED EQUAL) PAVED AREA CLEAN-OUT DETAIL

# SCALE 3/4" = 1'-0

## SECTION

- CLEAN-OUTS SHALL BE LOCATED NOT MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEAN-OUT.
- 2. CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED. PROVIDE PROPER CONCRETE PROTECTION IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN CONFORMANCEWITH ALL A.C.I. REQUIREMENTS.

## SANITARY SEWER NOTES

### MATERIALS

- a. BEDDING MATERIAL AND MATERIAL AROUND PIPE ("NO. 1 CRUSHED STONE") SHALL CONFORM TO THE GRADATION IN N.Y.S.D.O.T. TABLE 703-4, SIZE DESIGNATION 1, MATERIAL DESIGNATION 702—0201. <u>OPTIONAL</u>: PIPE BEDDING MATERIAL SHALL CONFORM TO CLASS I, II, OR III AS PER ASTM D 2321.
- b. UNDER ALL PAVED AREAS, BACKFILL ABOVE THE BEDDING MATERIAL SHALL BE WITH SELECT FILL.
- c. SELECT FILL SHALL BE TYPE 2 SUBBASE COURSE (N.Y.S.D.O.T. ITEM 304.12) COMPACTED TO 95% MINIMUM DENSITY IN
- d. Under Lawn Areas, Backfill above the bedding material may be with suitable material from the excavations.
- SUITABLE MATERIAL FROM THE EXCAVATIONS SHALL BE ANY MINERAL (INORGANIC) SOIL FREE OF FROZEN MATERIAL, MUCK, PEAT, TOPSOIL, AND SOD.
- f. WHEN UNSTABLE TRENCH BOTTOM CONDITIONS ARE ENCOUNTERED,THE UNSTABLE TRENCH BOTTOMS SHALL BE UNDERCUT AND BACKFILLED WITH TYPE 2 SUBBASE COURSE (N.Y.S.D.O.T. ITEM NO. 304.12) COMPACTED TO 95% MIN. DENSITY, OR AS DIRECTED BY OWNER'S ON-SITE GEOTECHNICAL ENGINEER.
- 2. COMPACTION IS REQUIRED FOR ALL BEDDING, SELECT FILL AND BACKFILL WORK. SEE DETAILS AND SPECIFICATIONS
- 3. ALL INTERIOR FLOOR DRAINS SHALL BE CONNECTED TO THE SANITARY SEWER. FOUNDATION OR FOOTER DRAINS INSTALLED TO INTERCEPT GROUNDWATER SHALL NOT DISCHARGE TO THE SANITARY SEWER. ALL DISCHARGES TO THE SANITARY SEWER MUST COMPLY WITH THE FEFFUENT LIMITS OF THE LOCAL SEWER USE LAW. INFLITATION AND EXPLITATION TESTING. SHALL BE PERFORMED WITH RATES LIMITED TO 100 GALLONS PER MILE PER INCH DIAMETER OF PIPE PER 24 HOURS FOR SANITARY SEWERS.
- 4. DEFLECTION AND INFILTRATION TESTS SHALL BE PERFORMED AS INSTRUCTED IN THE TESTING SPECIFICATIONS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PROPOSED INVERT ELEVATIONS IN RELATION TO FINISHED GRADES PRIOR TO INSTALLATION.
- ALL SANTARY SEWER PIPE AND FITTINGS SHALL BE PVC SDR-35 AND SHALL CONFORM TO THE LATEST A.S.T.M. D-3034.
- COMPRESSION GASKETS FOR HUB AND SPIGOT PIPE AND FITTINGS SHALL CONFORM TO THE LATEST ASTM C 564 AND SHALL BE COMPRESSED WHEN THE PIPE IS FULLY INSERTED.
- 8. JOINTS BETWEEN DIFFERENT PIPE MATERIALS SHALL BE MADE WITH AN INSERTA-TEE (OR APPROVED EQUAL) CONNECTION WITH AN ELASTOMERIC SEAL CONFORMING TO THE LATEST ASTM C 425, ASTM C 443, ASTM C 564, ASTM C 1173, ASTM D 1869, ASTM F 477, CAN/CSA A257.3M, OR CAN/CSA B602M.
- THE FOLLOWING TYPES OF JOINTS AND CONNECTIONS SHALL BE PROHIBITED: CEMENT OR CONCRETE JOINTS, MASTIC OR HOT-POUR BITUMINOUS JOINTS, ELASTOMERIC ROLLING O-RING JOINTS, SOLVENT-CEMENT JOINTS, OR SADDIR-TYPE FITTINGS.

## TESTING SPECIFICATIONS

## 1. DEFLECTION TEST

- a. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE IN CONFORMANCE WITH THE LATEST 10-STATE (G.L.U.M.R.B) STANDARDS
- b. THE DEFLECTION TEST SHALL NOT BE CONDUCTED UNTIL THE FINAL BACKFILL OVER THE PIPE HAS BEEN IN PLACE FOR AT LEAST 30 DAYS.
- c. NO PIPE SHALL EXCED A DEFLECTION OF 5 PERCENT. IF DEFLECTION EXCEEDS 5 PERCENT, REPLACEMENT SHALL BE ACCOMPLISHED AS PER APPROVED DETAILS AND SPECIFICATIONS, AND THE DEFLECTION TEST RE-PERFORMED.
- d. THE RIGID BALL OR MANDREL USED FOR THE DEFLECTION TEST SHALL HAVE A DIAMETER OF NOT LESS THAN 95 PERCENT OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE (DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION OR APPENDIX OF THE CUT SHEET SUPPLIED BY THE PIPE MANUFACTURER). THE DEFLECTION TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.

## 2. HYDROSTATIC TEST

- q. AN EXFILTRATION (OR INFILTRATION TEST DEPENDING ON LOCATION OF THE GROUNDWATER TABLE) SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET (600 mm.) IN CONFORMANCE WITH THE LATEST
- b. THE SYSTEM OPENINGS SHALL BE CLOSED, FILLED WITH WATER, AIR PURGED, THEN REFILLED WITH WATER. FOLLOWING REFILL THE WATER SUPPLY SHALL BE DISCONNECTED AND THE SYSTEM JOINTS INSPECTED FOR LEAKS.
- c. MAXIMUM ALLOWABLE LEAKAGE IS 100 GALLONS PER INCH OF NOMINAL PIPE SIZE PER MILE OF PIPE PER 24-HOUR DAY (9.2 LITRES PER MILLIMETER OF NOMINAL PIPE SIZE PER KILOMETER OF PIPE PER 24-HOUR
- d. Ductile iron Piping shall be tested in conformance with awwa c600, "Hydrostatic testing" section USING a test pressure of at least 10 PSIg (69 kPg).
- a. As a minimum, the air test shall conform to the latest astm C-828 for clay PIPE, the latest astm C 924 for concrete PIPE, the latest astm F-1417 for Plastic PIPE, or for other materials as DIRECTED BY THE REGULATORY AGENCY.
- b. AIR TESTING OF ALL NEW CONCRETE MANHOLES SHALL CONFORM TO THE LATEST ASTM C-1244.

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UTILITY DETAILS



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## LANDSCAPE NOTES

- THE CONTRACTOR SHALL PROVIDE MAINTENANCE INCLUDING FERTILIZING, RE-SEEDING, AND WATERING AS REQUIRED DURING LANDSCAPE INSTALLATION AND PLANTING FOR A MINIMUM PERIOD OF 12 MONTHS FROM PLANTING DATE.
- THE CONTRACTOR SHALL SCARIFY ALL NEW LANDSCAPE AREAS PRIOR TO SEEDING. REMOVE DEBRIS AND ROCKS TO 24" DEPTH PRIOR TO APPLYING TOPSOIL LINE SOIL AS NECESSARY TO A pH OF 6.5. FERTILIZE WITH 850 lbs. OF 5-10-10 OR EQUIVALENT PER ACRE (20 Ibs. PER EVERY 1000 SQ. FT.). LIME AND FERTILIZE THE TOP 2"-4" OF TOPSOIL
- THE CONTRACTOR SHALL FURNISH AND INSTALL A 3" MINIMUM LAYER OF HIGH—QUALITY SHREDDED HARDWOOD BARK OR CEDAR MULCH IN ALL PLANTING BEDS.
- ALL PROPOSED LANDSCAPE AREAS AND PLANTING BEDS SHALL BE EXCAVATED OF ALL BUILDING MATERIALS AND POOR UNSUITABLE SOILS TO A DEPTH OF 24" AND BACKFILLED WITH TOPSCIL AND THE PLANTING MIXTURE AS SPECIFIED IN THE DETAILS.
- BURIAP MESH MAY BE USED TO COVER SEEDING ON ANY SLOPE EMBANKMENTS STEEP ENOUGH TO IMPEDE THE ESTABLISHMENT OF LAWN AREAS.
- UNLESS RECOMMENDED OTHERWISE BY THE SEED VENDOR OR THE LANDSCAPE CONTRACTOR, PERIAMENT GRASS SEEDING SHALL CONSIST OF A MIXTURE OF THE FOLLOWING:
   KENTUCKY BLUEGRASS = 25% BY WEIGHT (98% MIN. PURITY: 85% MIN. GERMINATION)
- PENN LAWN RED FESCUE = 25% BY WEIGHT (95% MIN. PURITY: 80% MIN. GERMINATION) - TRIPLE CROWN PERENMAL RYE = 50% BY WEIGHT (95% MIN. PURITY; 90% MIN. GERMINATION)
- HAND-BROADCASTING OR HYDRO-SEEDING AND HYDRO-MULCHING SHALL BE USED TO ESTABLISH ALL NEW LAWN AREAS. IF HAND-BROADCASTING, SEW SEED AT A RATE OF 5 Ibs. PER 1000 SEQ, FT. RAVE SEED INTO TOP 1/8" OF TOPSOIL, ROLL, AND WATER WITH FINE MST. WATER SEED AS RECOMMENDED BY SEED VENDOR, UNFORMALY SPREAD 2 INCHES OF STRAW MULCH OVER BYTIRE SEEDED AREA, AT THE RATE OF 2 TONS PER ACRE, IMMEDIATELY AFTER ROLLING, AND WATERING SEEDED AREA, REMOVE ANY WIND-SWEPT MULCH PILES AS NECESSARY TO PREVENT DAMAGE TO GRASS.
- 8. IF REQUIRED, ONLY NEW YORK STATE OR EPA-APPROVED INSECTICIDES SHALL BE APPLIED PER MANUFACTURER'S INSTRUCTIONS.
- IN AREAS WHERE DECORATIVE STONES OR MUTCH MAY BE USED. THE CONTRACTOR SHALL INSTALL A QUALITY WOVEN LANDSCAPE FABRIC (SUCH AS FABRISCAPE 4.75 OZ. WOVEN WEED RESTRICTOR PLUS OR APPROVED EQUAL) FOR WEED CONTROL BENEATH A 2"-3" LAYER OF #2 LANDSCAPE STONE OR CEDAR / HARDWOOD BARK MULCH. CALL (800) 992-0550 TO ORDER AND FOR INSTALLATION INSTRUCTIONS.
- TOPSCILING AND SEEDING, HYDROSEEDING, OR SCOOLING SHALL TAKE PLACE WITHIN 24
  HOURS OF FINAL GRADING, SEED SHALL NOT BE BROADCAST DURING CONDITIONS OF HIGH
  WIND OR EXCESSIVE MOISTURE.
- 11. FERTILIZERS SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS REQUIRED BY THE MANUFACTURER. FERTILIZERS SHALL BE COMPLETELY WORKED INTO THE SOIL IMMEDIATELY FOLLOWING APPLICATION TO LIMIT EXPOSURE TO STORMANTER RUNOFF, FERTILIZERS SHALL BE STORED IN A COURRED SHED AND PARTIALLY USED BAGS SHALL BE TRANSFERRED TO A SECURIOR STATE OF THE MANUFACTURE OF THE STATE OF THE MANUFACTURE OF THE STATE OF SECURELY-SEALED BIN TO AVOID SPILLS
- 12. MOW NEWLY SEEDED AREAS FOR THE FIRST THREE (3) TIMES. AT EACH MOWING CUT TO A HEIGHT OF 2 INCHES AFTER GROWTH HAS REACHED APPROXIMATELY 3-½, INCHES. APPLY WEED AND FEED AS DIRECTED ON MANUFACTURER'S APPLICATION INSTRUCTIONS AFTER THE SECOND MOMING.
- 13. ALL NEW LAWN AREAS SHALL HAVE A 6 INCH MINIMUM LAYER OF TOPSOIL BEFORE SEEDING.
- 14. ALL NEW LAWN AREAS SHALL BE COMPLETE IN COVERAGE AND VIGOROUS IN GROWTH IN ORDER TO BE ACCEPTABLE. REPAIR, RE-SEED, AND WATER NEW LAWN AREAS AS NECESSARY UNITL. HER PEACH THE LEVEL OF FINAL ACCEPTANCE.
- REMOVE ALL STICKS, RUBRISH, STONES, AND ANY DEBRIS COLLECTED DURING RAKING, MCWING, AND DUMN ESTABLISHMENT ACTIVITIES. DISPOSE OF AT AN APPROPRIATE OFF—SITE LOCATION PER LOCAL REGULATIONS.
- 16. IN AREAS HEAVILY POPULATED BY DEER, DRAPE "DEER BLOCK NETTING" OVER SHRUBS AND PLANTINGS. TO GROER AND FOR INSTALLATION INSTRUCTIONS CONTACT ARRORDALE NURSERIES (716) 688-9125. OPTIONALLY APPLY REPELLEX OR LIQUID FENCE PER MANUFACTURER'S APPLICATION INSTRUCTIONS.

EXISTING TREE OR SHRUB TO REMAIN

NEW TREE OR SHRUB EXISTING LIGHT FIXTURE

NEW LIGHT FIXTURE EXISTING SIGN NEW SIGN σ EXISTING UTILITY POLE EXISTING FENCE × NEW FENCE EXISTING EDGE OF PAVEMENT NEW EDGE OF PAVEMENT EXISTING CURB NEW CURB (6") SITE PROPERTY LINE CENTERLINE OF ROAD NEW CONCRETE AREAS

EXISTING CONCRETE AREAS

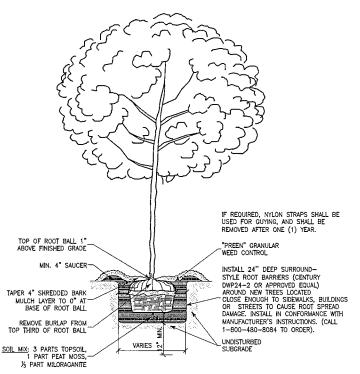
NEW MULCH AREAS

NEW STONE AREAS

NEW LAWN AREAS

## PLANT LIST: NEW PLANT MATERIAL

NO.	BOTANICAL NAME	COMMON NAME	SIZE	CONDIT.	REMARKS
4	GLEDITSIA TRIACANTHOS VAR. INTERMIS 'SHADEMASTER'	SHADEMASTER HONEYLOCUST	2½" TO 3"	B.B.	SPECIMEN SPECIES
3	MALUS 'HARGOZAM'	HARVEST GOLD CRAB APPLE	2½ TO 3*	B.B.	specimen species
2	ACER RUBRUM 'FRANKSRED'	RED SUNSET MAPLE	2½" TO 3" CAL.	8.8.	SPECIMEN SPECIES
IS/GRAS	SES/SEDCES				
34	JUNIPERUS CHINENSIS 'SPARTAN'	SPARTAN JUNIPER	2 GAL POT MIN.	B.B.	SPECIMEN SPECIES. PLANT 3'-0" O.C. PLANTS TO FORM HEDGE AS SHOWN
9	ILEX X MESERVEAE 'BLUE PRINCE'	BLUE PRINCE HOLLY	2 GAL POT MIN.	POTTED	PLANT 3'-0" O.C. PLANTS TO FORM HEDGE & OR IN MASSING AS SHOWN. PLANT 1 MALE HOLLY FOR EVERY 6 FEMALE PLANTS
38	ILEX X MESERVEAE 'BLUE PRINCESS'	BLUE PRINCES HOLLY	2 GAL POT MIN.	POTTED	PLANT 3'-0" O.C. PLANTS TO FORM HEDGE & OR IN MASSING AS SHOWN.
47	ROSA RUGOSA	JAPANESE ROSE	2 GAL POT MIN.	POTTED	PLANT 3'-0" O.C. PLANT IN MASSING AS SHOWN.
13	PANICUM VIRGATUM 'REHBRAUN'	RED SWITCH GRASS	1 GAL POT MIN.	POTTED	PLANT 3'-0" O.C. PLANTS TO BE STAGGER PLANTED AS SHOWN
79	PENNISETUM ALOPECUROIDES 'LITTLE BUNNY'	LITTLE BUNNY FOUNTAIN GRASS	1 GAL. POT MIN.	POTTED	PLANT 2'-4" O.C. PLANT AS INDICATED
48	FESTUCA GLAUCA 'ELIJAH BLUE'	ELIJAH BLUE FESCUE GRASS	1 GAL POT MIN.	POTTED	PLANT 2'-0" O.C. PLANT AS INDICATED
	4 3 2 2 34 9 38 47 13	NAME  GLEDITIA TRIACANTHOS VAR. INTERIIS 'SHADDIASTER'  MALUS 'HARGOZAM'  ACER RUBRUM 'FRANKSRED'  ACER RUBRUM 'FRANKSRED'  S/GRASSES/SEDGES  34 JUNIPERUS CHINENSIS 'SPARTAN'  9 ILEX X MESERVEAE 'BLUE PRINCE'  18 ILEX X MESERVEAE 'BLUE PRINCESS'  47 ROSA RUGOSA  13 PANICUM WRGATUM 'REHBRAUN'  79 PENNISETUM ALOPECUROIDES 'LITTLE BUNNY'  48 FESTUCA GLAUGA	NAME  NAME  NAME  NAME   OLEDITSIA TRIACANTHOS VAR. INTERMIS 'SHADEMASTER'  AMALUS 'HARCOZAM'  APPLE  ACER RUBRUM FRANKSRED'  RED SUNSET  S/GRASSES/SEDCES  AL  JUNIPERUS CHINENSIS SPARTAM JUNIPER  BLUE PRINCE  HOLLY FRINCE  TO ROSA RUGOSA  APPLE  BLUE PRINCES  HOLLY AMALUS PRINCES  HOL	NAME  NAME  NAME  NAME  NAME  NAME   ORA  GLEPTSIA TRIACANTHOS  VAR. INTERNIS SHADEMASTER  TO 3'  NALUS 'HARGOZAM'  APPLE  ACER RUBRUM FRANKSRED'  RED SUNSET AFLE  ACAL  APPLE  ACAL  APPLE  ACAL  APPLE  ACAL  APPLE  CAL  3'  SAGRASSES/SEDGES  34 JUNPERUS CHINENSIS  SPARTAN  SPARTAN  DILEX X MESERVEAE BLUE PRINCE BLUE PRINCE  BLUE PRINCES  AT  ROSA RUGOSA  BLUE PRINCESS'  HOLLY  AT  ROSA RUGOSA  JAPANESE  AT  ROSA RUGOSA  JAPANESE  BUE PRINCE  BULLY  AT  ROSA RUGOSA  JAPANESE  BULLY  AT  ROSA RUGOSA  JAPANESE  CAL  BULLY  AT  ROSA RUGOSA  JAPANESE  CAL  POT MIN.  13 PANICUM VIRGATUM REHBRAUN'  REHBRAUN'  REJORATION REHBRAUN'  TO  PENNISETUM ALOPECUROIDES L'UTILE BUNNY GRASS  L'UTILE BUNNY GRASS  L'UTILE BUNNY GRASS  L'UTILE BUNNY L'UTILE BUNNY GRASS  L'UTILE BUNNY L'UTILE BUNNY L'UTILE BUNNY GRASS  L'UTILE BUNNY L'UTILE L'UT	NAME   CIEDITSIA TRIACANTHOS VAR. INTERMIS S'ALONASTER'  NOMERIOCUST  CAL  NAPLE  ACER RUBRUM FRANKSRED'  RED SUNSET FARIKSRED'  RED SUNSET MAPLE  2 ACER RUBRUM FRANKSRED'  RED SUNSET MAPLE  2 TO 3*  B.B.  CAL  NAPLE  2 TO 3*  CAL  NAPLE  2 TO 3*  CAL  NAPLE  2 TO 3*  CAL  POTTED  POT MIN.  POTTED  1 LEX X MESERVEAE FULLE PRINCES FULLE PRINCES  HOLLY  ROSA RUGOSA  NAPANESE POT MIN.  POTTED  13 PANICUM VIRGATUM RED SWITCH ROSASS  POT MIN.  POTTED  13 PANICUM VIRGATUM RED SWITCH ROSASS  THE BUNNY REHBRAUN'  RED SWITCH ROSASS  POT MIN.  POTTED  11 GAL POTTED  POT MIN.  POTTED  POT MIN.  POTTED  14 GAL POTTED  15 GAL POTTED  16 GAL POTTED  17 PENNISETUM RED SWITCH ROSASS  LITTLE BUNNY REHBRAUN'  RESSULA GAUCA  ELMAH BLUE  1 GAL POTTED

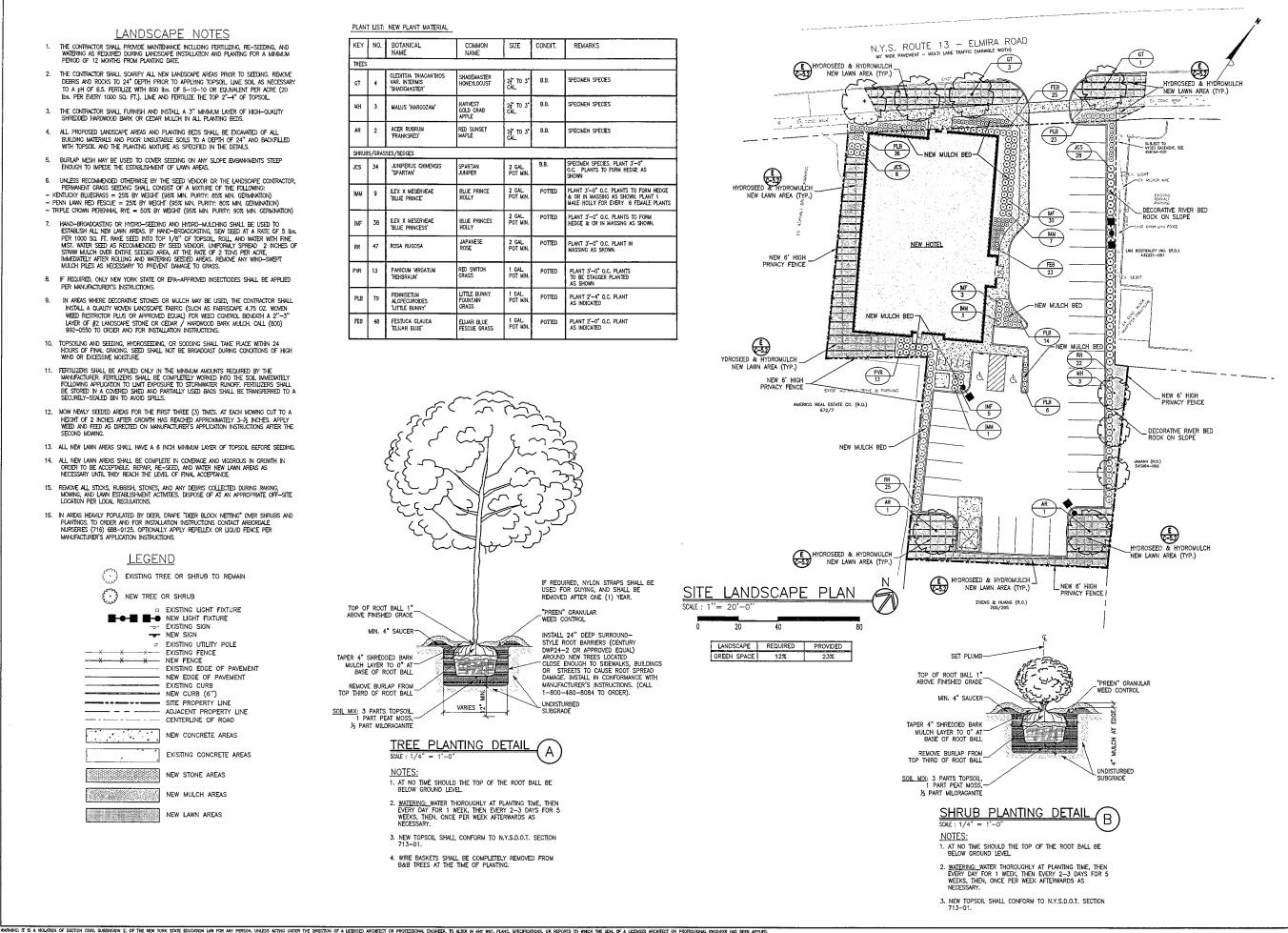


# TREE PLANTING DETAIL

## NOTES:

1. AT NO TIME SHOULD THE TOP OF THE ROOT BALL BE BELOW GROUND LEVEL.

- 2. <u>WATERING:</u> WATER THOROUGHLY AT PLANTING TIME, THEN EVERY DAY FOR 1 WEEK, THEN EVERY 2-3 DAYS FOR 5 WEEKS, THEN, ONCE PER WEEK AFTERWARDS AS
- NEW TOPSOIL SHALL CONFORM TO N.Y.S.D.O.T. SECTION 713-01.
- 4. WIRE BASKETS SHALL BE COMPLETELY REMOVED FROM B&B TREES AT THE TIME OF PLANTING.



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SITE LANDSCAPE

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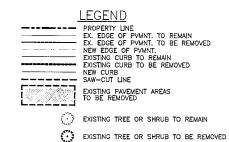
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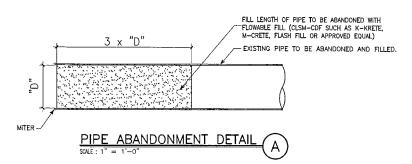
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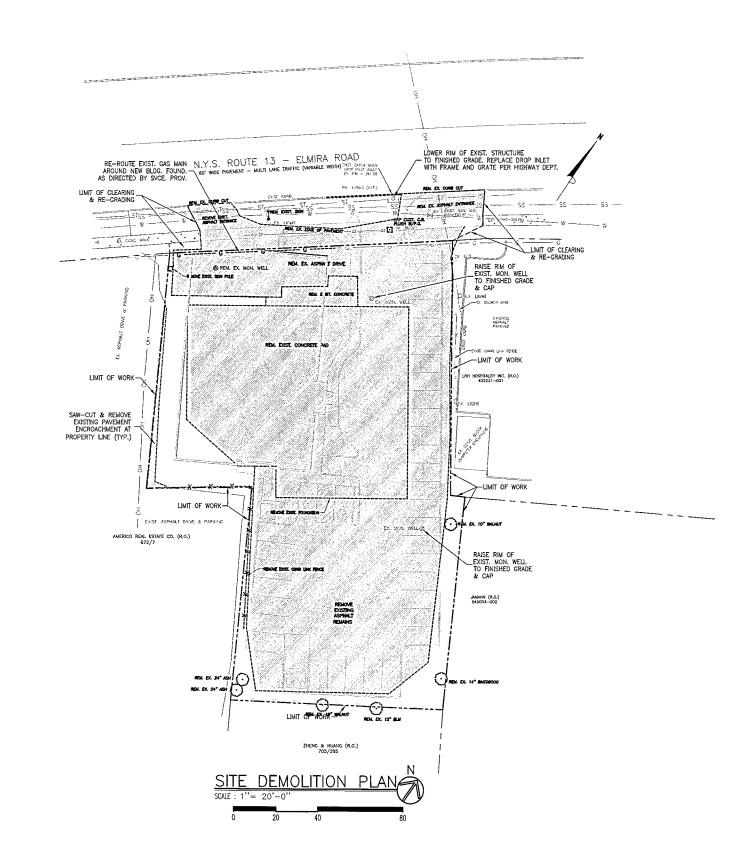
Tri-Main Center 2495 Main Street, Suite Buffolio, New York 1421-Phone: (716) 803-8400 Fax: (716) 810-9504

## **DEMOLITION NOTES:**

- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL NECESSARY FEES AND OSTANNING ALL NECESSARY PERMITS FOR CLEARING, SOIL EROSION PROTECTION, AND DISPOSING OF DEBRIS FROM SITE.
- THE CONTRACTOR SHALL COORDINATE THE REMOVAL, RELOCATION, OR RE-ROUTING OF ANY UTILITIES WITH EACH RESPECTIVE UTILITY COMPANY, NOTIFY UTILITY COMPANIES OR AGENCIES AT LEAST 72 HOURS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL MAINTAIN ACCESSIBLE PASSAGEWAYS FOR TRAFFIC AND PEDESTRIANS TO BUSTING BUSINESSES WHICH WILL REMAIN IN OPERATION THROUGHOUT THE DURATION OF THE CONSTRUCTION.
- THE CONTRACTOR SHALL FOLLOW ALL SOIL PREPARATION AND FOUNDATION CONSTRUCTION RECOMMENDATIONS AS STATED IN THE GEOTECHNICAL ENGINEERING REPORT.
- 5. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR ANY UTILITIES NOT SHOWN ON THIS PLAN OR ANY ACCIDENTAL RUPTURES DURING EXCAVATION OR CONSTRUCTION.
- THE CONTRACTOR SHALL REMOVE ALL VISIBLE AND PARTIALLY BURIED DEBRIS PILES FROM AREAS TO BE DEVELOPED OR GRADED AND DISPOSE OF AT AN APPROPRIATE OFF—SITE LOCATION IN COMPLIANCE WITH AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL COMPLETELY REMOVE EXISTING BURIED FOUNDATION WALLS, CONCRETE SLASS, AND ANY OTHER ATTACHMENTS (ABOVE OR BELOW GRADE) WHERE SHOWN ON THE ADJACENT FLAN ON THIS SHEET.
- ALL ABANDONED UTILITIES SHALL SE CAPPED, SHUT OFF AT MAIN, AND FILLED (SEE DETAIL A ON THIS SHEET).
- ANY UTILITY LINES NO LONGER IN USE (BITHER SHOWN ON THIS SHEET OR DISCOVERED IN THE FIELD) SHALL BE COMPLETELY REMOVED IF THEY ARE IN CONFLICT WITH ANY NEW UTILITY OR STRUCTURE.
- 10. ANY CAMTIES OR TRENCHES REJAINING FROM EXCAVATED FOOTINGS, FOUNDATION WALLS, PIPELINES, BASEMENTS, OR UNDERGROUND TANKS BENEATH FUTURE BUILDING OR PAMEMENT AREAS SHALL BE BACKFILLED WITH FLOWBLE FILL TO THE FROST LINE, AND TYPE 2 CRUSHER RIN STONE (MISDOT ITEM 304.12) ABOVE THE FROST LINE, COMPACTED TO 95% DENSITY (IN 6" MAXIMUM LIFTS).
- 11. PROMDE TEMPORARY SNOW-FENCING AROUND ALL EXISTING TREES, SHRUBS, OR LANDSCAPING TO REMAIN.







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SITE DEMOLITION PLAN



DRAWN BY: AVT CHECKED BY: OST JOB # 13-160 C-5.0

WARNING: IT IS A VICLATION OF SECTION 7209, SUBBINISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER WAS BEEN APPLIED.

## **EROSION & SEDIMENTATION CONTROL NOTES:**

- GRADING, TOPSOILING, AND STABILIZING SECTIONS SHALL BE COMPLETED BEFORE EXCAVATION STARTS ON OTHER SECTIONS, IN ORDER NOT TO LEAVE MY AREAS EXPOSED TO WIND AND RAIN EROSION FOR LONGER DURATION THAN NECESSARY,
- ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. ALL TRACH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER ON A DAILY BASIS. ABSOLUTELY NO CONSTRUCTION MATERIALS SHALL BE BURIED ON SITE.
- 3. ALL VEHICLES ON SITE DURING THE BITIRE DURATION OF CONSTRUCTION SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE, ANY PETROLEUM PRODUCTS USED SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED, SPILL KITS SHALL BE INCLUDED WITH ANY FUELING SOURCES AND MAINTENANCE ACTIVITIES AS NECESSARY.
- 4. ALL PAINT CONTAINERS OR CURING COMPOUNDS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEMER SYSTEM BUT SHALL BE PROPERLY DISPOSED OF IN CONFORMANCE TO MANUFACTURER'S INSTRUCTIONS.
- WHEN ACTIVITIES TEMPORARILY CEASE DURING CONSTRUCTION, SOIL STOCKPILES AND ANY EXPOSED SOILS SHOULD BE STABILIZED BY MULCH OR COVERED WITH TARPS NO MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS CEASED.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES SHOWN ON THIS PLAN ON A DAILY BASIS AND AFTER RAIN STORMS, ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL EROSION CONTROL DEVICES AS SPECIFIED IN THIS PLAN AND ON THE EROSION CONTROL DETAILS.
- TOPSOIL STOCKPILES SHALL NOT BLOCK DRAINAGE FLOWS DURING CONSTRUCTION, STOCKPILES SHALL NOT BE LOCATED NEAR CATCH BASINS OR DRAINAGE INLETS. THE BASE OF ALL STOCKPILES SHALL BE PROTECTED WITH SILT FENCING, OR ELSE THE ENTIRE STOCKPILE SHALL BE COMERED WITH TARPS AND SANDBAGS.
- THE CONTRACTOR SHALL PREVENT TRACKING OR FLOWING OF MUD INTO STREETS OR AREAS OUTSIDE OF CONSTRUCTION LOCATION.
- ALL WATER PUMPED FROM EXCAVATIONS SHOULD BE DIRECTED TO A SEDIMENT TRAP, SEDIMENT BASIN, OR FILTRATION DEVICE SHOWN ON THE EROSION CONTROL DETAILS.
- ALL CATCH BASIN SUMPS SHALL BE CLEANED OUT AT THE END OF CONSTRUCTION AND SOIL SEDIMENTS SHALL BE DISPOSED OF AT AN APPROPRIATE OFFSITE LOCATION.
- 11. ALL CHLORINATED WATER USED FOR FLUSHING WATERLINES SHALL BE DISCHARGED TO THE SANITARY SEWER AND NEVER TO ANY STORM SEWER, CATCH BASIN, OR SWALE.
- 12. ALL PORTABLE TOILETS SHALL BE LOCATED AWAY FROM CATCH BASINS, STORM SEWERS, AND SWALES. PORTABLE TOILETS SHALL BE PLACED ON A FLAT, STABLE GROUND SUFFACE NOT PRONE TO FLOCORIO, ALL PORTABLE TOILETS SHALL BE ANCHORED TO PREVENT BLOWING OVER DURING WINDSTORMS.
- ANY DETERGENTS OR ACID CLEANERS WASHES USED TO CLEAN OR RINSE CONCRETE, STUCCO, MASCNIRY, ETC. SHALL NEVER BE DISCHARGED TO ANY STORM SEMER, CATCH BASIN, OR SMALE.
- AVOID STORING PETROLEUM PRODUCTS ON SITE IF POSSIBLE. IF NOT POSSIBLE, STORE AWAY FROM CATCH BASINS OR DRAINAGE WAYS.
- AVOID ON-SITE STORAGE OF PESTICIDES, FERTILIZERS, AND HERBICIDES. IF UNAVOIDABLE, ALL CHEMICALS SHALL BE STORED IN ORIGINAL PACKAGES IN A SEPARATELY DESIGNATED COVERED CONTINUADED AREA.
- 16. USE CLEAN OR RECYCLED WATER WHEN SPRINKLING SOIL FOR DUST CONTROL. IF SOIL AMEDIOMENTS ARE USED FOR DUST CONTROL, THE CONTRACTOR SHALL FOLLOW THE EXACT APPLICATION INSTRUCTIONS FROM THE MANUFACTURER.

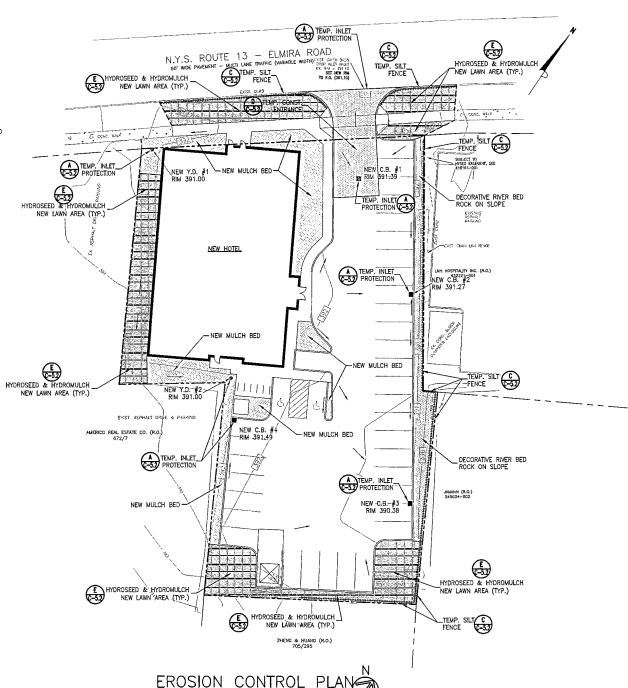
## <u>LEGEND</u>

EXISTING EDGE OF PAVEMENT NEW EDGE OF PAVEMENT FXISTING CURB NEW CURB (6") PROPERTY / R.O.W. LINES ---- ADJACENT PROPERTY LINES ----- LIMIT OF RE-GRADING TEMPORARY SILT FENCE -XXX- EXISTING CONTOUR LINES PROPOSED CONTOUR LINES - ST - STORM SEWER OP EXISTING UTILITY POLE ☐ EXISTING CATCH BASIN ■ NEW CATCH BASIN

O EXISTING MANHOLE NEW YARD DRAIN

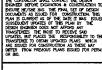
NEW LAWN AREAS TO BE SEEDED OR HYDRO-SEEDED THEN HYDRO-MULCHED NEW CRUSHED STONE AREAS

NEW MULCH BED AREAS



"= 20'-0

연기는 위한 경우를 보고 하는 것으로 보았다. 시간은 시간은 그 사람들은 그 사람들은 보기 때문에 되었다.



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EROSION CONTROL PLAN



DRAWN BY: AVT CHECKED BY: OST JOB # 13-160

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EROSION CONTROL DETAILS

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INSTALLATION INSTRUCTIONS: MAINTENANCE INSTRUCTIONS:

INSTALLATION INSTRUCTIONS AND DIAGRAMS COME WITH INSTALLATION KIT, ZIP—TIES, AND FILTER PAOS.

1. REMOVE SEDIMENT, DEBRIS, ICE, AND SNOW FROM THE CATCH BASIN GRATE SURFACE AND SURROUNDING AREAS.

2. PLACE FILTER OVER GRATE TO ENSURE FILTER EXERDS AT LEAST 1 INCH BEYOND ALL SIDES OF THE CATCH BASIN GRATE.

2. PLACE FILTER OVER GRATE TO ENSURE FILTER EXERDS AT LEAST 1 INCH BEYOND ALL SIDES OF THE CATCH BASIN GRATE.

2. THE ABOVE SHALL BE THE RESPONSIBILITY OF THE

2. THE ABOVE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE CONSTRUCTION PROJECT IS COMPLETE AND PAVING IS DONE. DO NOT PAVE OVER THE FILTER.

3. WHEN CONSTRUCTION IS COMPLETE, ALL DRY SEDIMENT AND DEBRIS AROUND THE ITLER SHOULD BE SWEPT AND / OR VACUUMED PRIOR TO REMOVING THE FILTER. THE FILTER CAN WITHSTAND A STREET SWEEPER WITHOUT DAMAGE.

4. WHEN THE SITE IS STABILIZED TO PREVENT EROSION AND SEDIMENTATION, CUT ALL ZIP—TIES, REMOVE FILTERS, AND RE—USE ON NEXT CONSTRUCTION SITE.

5. AFTER 3 TO 4 CONSTRUCTION SITE USAGES, SHOULD THE FILTER BEGIN TO DISINTEGRATE IT SHOULD BE DISCARDED BY PLACING IN FUTURE LAWN OR LANDSCAPE AREAS AS MULCH (FILTER IS BIODEGRADABLE).

INSTALLATION INSTRUCTIONS:

EXCAVATIONS.

1. PLACE LIFTING STRAPS (NOT INCLUDED) UNDER THE UNIT TO FACILITATE REMOVAL AFTER USE.

UNFOLD DANDY DE-WATERING BAG ON A STABILIZED AREA OVER DENSE VEGETATION, STRAW, OR GRAVEL (IF AN INCREASED DRAINAGE SURFACE IS NEEDED).

3. INSERT DISCHARGE HOSE FROM PUMP INTO DANDY DE-WATERING BAD A MINIMUM OF SIX INCHES (6") AND TIGHTLY SECURE WITH THE ATTACHED STRAP TO PREVENT WATER FROM FLOWING OUT OF THE UNIT WITHOUT BEING FILTERED. MAINTENANCE INSTRUCTIONS:

 REPLACE THE UNIT WHEN ½ FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE OF THE PUMP DISCHARGE TO AN IMPRACTICAL RATE, ELSE UNIT MAY BE RE-USED.

 DISPOSE OF UNIT AND/OR ABSORBENT IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL LAWS AND REGULATIONS.

TEMPORARY INLET PROTECTION DETAIL (

 PLACE FILTER OVER GRATE WITH NET SIDE FACING DOWN, EXTENDING BEYOND THE GRATE OPENING ON ALL SIDES.

4. INSTALL ZIP-TIES WITHOUT LIFTING GRATE COVER. LIFT FILTER SLIGHTLY TO SEE THE FIRST GRATE OPENING, PUSH POINTED END OF A SCREWDRIVER THROUGH FLITER TO CREATE A PILOT HOLE FOR THE FIRST ZIP

5. PUSH POINTED END OF ZIP-TIE THROUGH THE PILOT

 PUSH POINTED END OF THE ZIP—TIE INTO THE RECEIVING END. LEAVE ZIP TIE LOOSE UNTIL ALL 8 TIES ARE LOOPED THROUGH THE FILTER.

HOLE AND THROUGH THE FILTER. BEND THE LAST 3"
OF ZIP-TIE ON ITSELF TO FORM A HOOK SHAPE. LOOP
THE ZIP TIE UP UNDER THE GRATE BAR AND PUSH UP
AND THROUGH THE FILTER BAR AND PUSH UP
AND THROUGH THE FILTER THROUGH ADJACENT GRATE

REPEAT STEPS 4 THROUGH 6 UNTIL ALL ZIP—TIES ARE INSTALLED LOOSELY. THEN PULL ALL 8 ENDS OF ZIP TIES TO HAND TIGHTEN AND ANCHOR FILTER TO GRATE

INLET FILTER (BLOCKSOM ITEM

EQUAL). CALL 219-878-4438 TO ORDER.

8 ZIP-TIES INCLUDED WITH FILTER

NEW OR EXISTING CATCH BASIN OR DRAINAGE INLET

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ISOMETRIC\_VIEW

#IE1527Y30C OR APPROVED

USE 7° BLACK
HEAVY-DUTY UV STABILIZED
PLASTIC CABLE TIES TO TIE
SEGMENTS AT JOINTS.

INSTALL 1" x 18" STAKES ON DOWN SLOPE
SIDES OF EVERY SEMENT
OVERLAP

SLICE 1" TO 2" SLIT 4"
DEED BY WITH DISK EDGER OR
DITCH WITCH. BACKFILL AND
HAND TAMP OR COMPACT
OVERLAP SEGMENTS BY 4"
OVERLAP SEGMENTS BY 4"
MIN.

WIN.

ERTEC S-FENCE RE-USABLE
TEMPORARY SILT FENCE
(MODEL SF14 OR APPROVED
EQUAL). OROER FROM EROSION
TECHNOLOGIES & CONTROL
(716-583-1997)

(STORMWATER FLOW)

STORMWATER FLOW)

FRIEC S-FENCE RE-USARIE SECTION TEMPORARY SILT FENCE (MODEL SF14 OR APPROVE EQUAL), ORDER FROM EROSION TECHNOLOGIES & OVERLAP SEGMENTS 4" MIN. -CONTROL (716-583-1997) Notes:

Dog-leg at end-of-runs to contain sediment.

Install on same contour to limit scour and flow concentration. Dog-leg periodically if on down-hill run to minimize velocity scour. INSTALL 1" x 1" x 18" STAKES ON DOWN SLOPE SIDES OF EVERY SEGMENT OVERLAP USE 7" BLACK PLASTIC CABLE TIES TO TIE SEGMENTS AT JOINTS. SLICE 1" TO 2" SLIT 4"
DEEP WITH DISK EDGER OR
DITCH WITCH. BACKFILL AND
HAND TAMP OR COMPACT—
AFTER SILT FENCE IS
INSTALLED IN SLOT. (STORMWATER FLOW) ISOMETRIC OVERLAP SEGMENTS BY 4' SCALE: 1" = 1'-0' ISOMETRIC SCALE: 1" = 1'-0'

MAINTENANCE INSTRUCTIONS:

(FILTERED WATER)-

TO ORDER)

DANDY DE—WATERING BAG (AVAILABLE FROM EROSION TECHNOLOGIES & CONTROL, INC. CALL 716-583-1997

PUMP DISCHARGE HOSE

PUMP (BY OTHERS)-

(BY OTHERS)

DE-WATERING DETAIL

1. INSPECT ALL SILT FENCE AT THE END OF CONSTRUCTION EACH DAY, AND AFTER EACH RAINFALL EVENT, TO ENSURE THE SILT FENCE REMAINS IN PLACE AS SHOWN IN DETAIL RE-INSTALL ANY FENCE RUN OVER BY CONSTRUCTION EQUIPMENT AS PER DETAIL

2. BUILT UP SEDIMENT SHALL BE REMOVED FROM THE UP-SLOPE SIDES OF THE SILT FENCE WHEN IT HAS REACHED ONE-HALF THE HEIGHT OF THE SILT FENCE (5") AND DISPOSED OF PROPERLY OFF SITE. AVOID UNDERWINING OR DAMAGING SILT FENCE DURING SEDIMENT REMOVAL.

3. REMOVE TEMPORARY SILT FENCE AFTER THE SITE IS SUFFICIENTLY STABILIZED BY MATURE VEGETATION AND PAVEMENT AS CONFIRMED BY THE DESIGNATED EROSION CONTROL INSPECTOR. INSERT SHOVEL OR SPADE BEHIND FENCE AND PRY TO LOOSEN, THEN PULL UP STAKES WITH FENCE TAKING CARE NOT TO PULL UP GRASS ALONG EDGING.

4. REMOVE AND RE-USE SILT FENCE ELSEWHERE ON SITE AND ON FUTURE CONSTRUCTION SITES. STAKES MAY ALSO BE RE-USED IF NOT

5. BADLY CLOGGED OR DAMAGED SILT FENCE SHALL BE RECYCLED (CALL EROSION TECHNOLOGIES & CONTROL - 716-583-1997) FOR PICK-UP, INSTALL 9" PAVEMENT SUBBASE TO GRADE. TYPE 2 SUBBASE COURSE (N.Y.S.D.O.T. ITEM 304.12) OVER MIRAFI 600X FILTER FABRIC. STABILIZE BY COMPACTION TO 95% DENSITY (MINIMUM ).

## TEMPORARY CONSTRUCTION ENTRANCE DETAIL

SCALE 1/16" = 1'-0

INSTALLATION INSTRUCTIONS:

 CLEAR AND CRUE FUTURE DRIVEWAY AREA AND COMPACT SUBGRADE TO 92% PROCTOR DENSITY (MINIMUM) OR AS DIRECTED BY OWNER'S ON-SITE GEOTECHNICAL ENGINEER. THE SUBGRADE SHALL THEN BE ROUGH GRADED (STONE WILL BECOME FUTURE DRIVEWAY SUBBASE).

50'-0" MIN.

 PRIOR TO INSTALLATION OF THE TEMPORARY CONSTRUCTION ENTRANCE STONE, ANY PROPOSED CULVERT PIPES BENEATH THE DRINEWAYS SHOWN ON THE SITE DRAINAGE PLAN OR SITE UTILITY PLAN SHALL BE INSTALLED AS PER THE DRAINAGE DETAILS.

3. PLACE FILTER FABRIC OVER SUBGRADE IN CONFORMANCE TO MANUFACTURER'S INSTRUCTION.

4. ADD STONE IN 6 INCH MAXIMUM LIFTS. COMPACT TO 95% DENSITY (MINIMUM).

MAINTENANCE INSTRUCTIONS:

 MAINTAIN ENTRANCE SUCH THAT SEDIMENT OR MUD DOES NOT TRACK OR FLOW ONTO ADJACENT ROAD SURFACES IN THE RIGHT-OF-WAY. ANY SEDIMENT TRACKED OR FLOWING ONTO THE ADJACENT ROAD SURFACES IN THE RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY AND DISPOSED OF AS DIRECTED IN THE EROSION CONTROL PLAN.

 INSPECT ENTRANCES AFTER EACH RAINFALL. IF NECESSARY ADD ADDITIONAL AGGREGATE TO TOP SURFACE.

THE ABOVE MAINTENANCE PROCEDURES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

HDYRO-SEED & HYDRO-MULCH INSTALLATION INSTRUCTIONS:

\*\*\* AREAS TO BE HYDRO—SEEDED AND HYDRO—MULCHED WITH HYDROSTRAW ARE SHOWN ON THE EROSION CONTROL PLAN. THE CONTRACTOR SHALL CONTACT HYDROSTRAW (800) 545-1755 TO ORDER, AND FOR A LIST OF CERTIFED HYDROMULCH APPLICATION CONT

TILL AREAS OF INSTALLATION TO A 4 BICH MINIMUM DEPTH, THEN TOPSOL AREAS OF INSTALLATION TO STREILZED FINISHED GRADE. ADO LIME AND FERTILIZER TO SOIL (IF REQUIRED) AT 400 Bias PER AGRE 24 HOURS BETWEE TILLING, REJAVE ALL ROCKS, CLODS, VEGETATION, ON OTHER COSTRUCTIONS SO THAT THE SEED HILL HAVE DIRECT CONTACT WHIT THE

2. HYDRO-SEED GRASS AS PER SEED VENDOR'S INSTRUCTIONS.

 APPLY HYDRO-MULCH TO COVER THE GRASS SEED. PER HYDROMULCH SPECIFICATIONS INMEDIATELY FOLLOWING: SEEDING, APPLY AT 2,000 IAB PER ADRE MINIMUM FOR SLOPES 3:14 AND FLATER, APPLY KNOSOTRAW GUAR PIUS AT 3,000 BA PER AGRE MINIMUM FOR SLOPES SETWEEN 2:1 AND 3:1. APPLY HYDROGITAM BONDED FIBER MATRIX AT 4,500 BA PER ACRE MINIMUM FOR SLOPES BETWEEN 1:1 AND 2:1.

 HYDROMULCH SHOULD BE APPLIED AT LEAST 8 HOURS PRIOR TO RAINSTORM EVENTS. <u>HDYRO—SEED & HYDRO—MULCH</u> <u>MAINTENANCE INSTRUCTIONS:</u>

THE SLOPE SHALL BE MONITORED DAILY FOR EROSION ESPECIALLY AFTER RAIN STORMS. RE—APPLICATION SHALL BE REQUIRED WHEREVER ACCEPTABLE GERMINATION IS NOT OBTAINED.

KEEP HYDRO—SEEDED AND HYDRO—MULCHES AREAS MOIST BY DAILY APPLICATION OF WATER FOR A MINIMUM OF TEN DAYS UNTIL THE SEEDS HAVE GERMINATED, OR AS RECOMMENDED BY THE SEED VENDOR.

THE ABOVE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

THE GRASS SHOULD NOT BE MOWED UNTIL IT REACHES
AT LEAST 3½ INCHES IN HEIGHT, MOW ONLY THE TOP
THIRD OF EACH GRASS BLADE TO ENSURE SURVIVAL.

HYDROMULCH INSTALLATION E

REUSABLE SILT FENCE DETAIL C

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