PHOTECH SITE DEVELOPMENT INFRASTRUCTURE PROJECT

1000 DRIVING PARK AVENUE
CITY OF ROCHESTER, NEW YORK

FA PROJECT NO. 134024
AGREEMENT NO. 125831
NOVEMBER 15, 2013

APPROVALS

CITY OF ROCHESTER BUREAU OF ARCHITECTURE & ENGINEERING	DATE
MONROE COUNTY DEPT. OF PUBLIC HEALTH BUREAU OF PUBLIC HEALTH ENGINEERING	DATE
CITY OF ROCHESTER WATER BUREAU	DATE
MONROE COUNTY PURE WATERS ROCHESTER PURE WATERS DISTRICT	DATE

APPROVAL AGENCIES

CITY OF ROCHESTER BUREAU OF ARCHITECTURE & ENGINEERING
CITY HALL
30 CHURCH STREET, ROOM 300B
ROCHESTER, NY 14614
(585) 428-6828
ATTN: JAMES MCINTOSH, P.E.

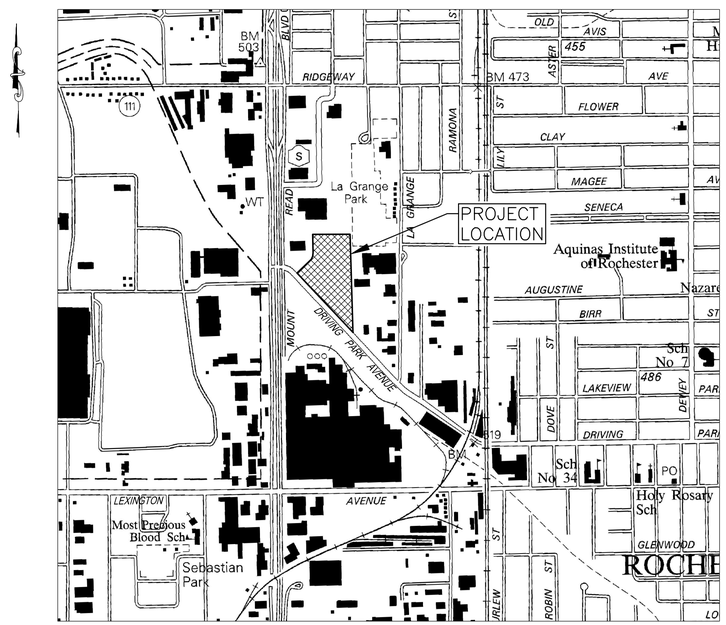
MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH
BUREAU OF PUBLIC HEALTH ENGINEERING
111 WESTFALL ROAD
P.O. BOX 92832
ROCHESTER, NY 14692-8932
(585) 274-6056
ATTN: SCOTT HALLOCK

CITY OF ROCHESTER WATER BUREAU
10 FELIX STREET
ROCHESTER, NY 14608
(585) 728-7576
ATTN: MIKE BUSHART

MONROE COUNTY PURE WATERS
ROCHESTER PURE WATERS DISTRICT
4444 EAST HENRIETTA ROAD
ROCHESTER, NY 14620
(585) 760-7610
ATTN: GLENN KAISER

Know what's **below.**
Call before you dig.

MONROE COUNTY DEPARTMENT OF HEALTH	ROCHESTER PURE WATERS DISTRICT



LOCATION MAP
N.T.S.

FISHERASSOCIATES
WWW.FISHERASSOC.COM
135 Calkins Road, Rochester, NY 14623
Phone: 585-334-1310

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UTILITY COMPANIES

WATER

CITY OF ROCHESTER WATER BUREAU
10 FELIX STREET
ROCHESTER, NEW YORK 14613
ATTN: ENRIQUE MAISCH
(585) 428-7569

STORM & SANITARY SEWER

MONROE COUNTY D.E.S.
DIVISION OF PURE WATERS
50 W. MAIN ST, STE 7100
ROCHESTER, NY 14614
ATTN: GLENN KAISER
(585) 760-7610

GAS & ELECTRIC

ROCHESTER GAS AND ELECTRIC
89 EAST AVENUE
ROCHESTER, NY 14649
ATTN: YVETTE LABOMBARD
(585) 771-4444

TELEPHONE

FRONTIER COMMUNICATIONS
3441 WEST HENRIETTA ROAD
ROCHESTER, NY 14623
ATTN: JEFFERY LOPER
(585) 777-9171

CABLE

TIME WARNER COMMUNICATIONS
71 MT. HOPE AVENUE
ROCHESTER, NY 14620
ATTN: MARK MATTHEWS
(585) 756-1000

CLIENT:
CITY OF ROCHESTER DEPARTMENT OF ENVIRONMENTAL SERVICES
BUREAU OF ARCHITECTURE & ENGINEERING
CITY HALL
30 CHURCH STREET, ROOM 300B
ROCHESTER, NY 14614

FINAL REVIEW

REV	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			
7			

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FA PROJECT NO.
134024
PROJECT MANAGER
D. YANOSH

DRAWN BY
D. YANOSH
SCALE
AS SHOWN
ISSUE DATE
5/19/14

FISHERASSOCIATES
WWW.FISHERASSOC.COM
135 Calkins Road, Rochester, NY 14623
Phone: 585-334-1310

PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
COVERSHEET

DRAWING NO.
CV-1

SHEET 1 OF 32

FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 Coversheet.dwg
DATE/TIME: 5/19/2014 12:36:05 PM
USER: Dan Yanosh

GENERAL SITE ABBREVIATIONS

"A"

&	AND
@	AT
ABUT	ABUTMENT
ALT	ALTERNATE
ALUM	ALUMINUM
AOBE	AS ORDERED BY ENGINEER
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
AZ	AZIMUTH

"B"

℄	BASE LINE
BB	BOTTOM OF BANK (STREAM)
BC	BOTTOM OF CURB
BDY	BOUNDARY
BOT	BOTTOM
BO	BOTTOM OF OPENING
BITM	BITUMINOUS
BK	BACK
BLDG	BUILDING
BM	BENCH MARK
BRG	BEARING
BW	BOTTOM OF WALL
BWT	BACKWASH TRANSFER

"C"

℄	CENTERLINE
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CC	CENTER TO CENTER
CIP	CAST IRON PIPE
CJ	CONTROL JOINT
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CONST	CONSTRUCTION
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUE / CONTINUOUS
CONTD	CONTINUED
CONTR	CONTRACT / CONTRACTOR
COORD	COORDINATE
CORP	CORPORATION STOP
CP	CONCRETE PIPE
CR	COUNTY ROAD
CS	CURB STOP
CSP	CORRUGATED STEEL PIPE
CTR	CENTER
CTV	CABLE TELEVISION
CULV	CULVERT

"D"

DEG	DEGREE
DET	DETAIL
DEMO	DEMOLISH / DEMOLITION
DI	DUCTILE IRON
DIA	DIAMETER
DIAG	DIAGONAL / DIAGRAM
DIM	DIMENSION
DIV	DIVISION
DL	DEAD LOAD
DMH	DRAINAGE MANHOLE
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DWG	DRAWING
DWL	DOWEL
DWY	DRIVEWAY

"E"

EA	EACH
ECC	ECCENTRIC
EJ	EXPANSION JOINT
EHW	EXTREME HIGH WATER
EL.	ELEVATION
ELEC	ELECTRIC / ELECTRICAL
ELW	EXTREME LOW WATER
EMH	ELECTRIC MANHOLE
ENGR	ENGINEER
EP	EDGE OF PAVEMENT
ES	END SECTION
EX	EXISTING

"F"

FD	FLOOR DRAIN / FOOTING DRAIN
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FL	FENCE LINE
FLG	FLANGED
FP	FENCE POST
FT	FEET
FTW	FILTER TO WASTE

"G"

G	GAS
GA	GAGE / GAUGE
GALV	GALVANIZED
GAR	GARAGE
GR	GRAVEL
GSB	GAS SERVICE BOX
GV	GATE VALVE

"H"

HB	HOSE BIBB
HD	HARDWARE
HT	HEIGHT
HO	HOUSE
HORIZ	HORIZONTAL
HP	HIGH POINT
HSD	HEADLIGHT SIGHT DISTANCE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HYD	HYDRANT
HW	HEAD WALL
HWY	HIGHWAY

"I"

INFO	INFORMATION
INV	INVERT
IP	IRON PIN OR IRON PIPE

"J"

JST	
JT	JOIST
	JOINT

"K"

—	—

"L"

L	LENGTH OF CIRCULAR CURVE
LB	POUND
LBS	POUNDS
LF	LINEAR FEET
LP	LOW POINT
LP	LIGHT POLE
LPG	LOW PRESSURE GAS
LS	LENGTH OF SPIRAL
LVC	LENGTH OF VERTICAL CURVE

"M"

MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MH	MANHOLE
MHW	MEAN HIGH WATER
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MON	MONUMENT
MPT	MAINT. AND PROTECTION OF TRAFFIC

"N"

N	NORTH
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO. OR #	NUMBER
NTS	NOT TO SCALE

"O"

OC	ON CENTER
O.F.	OUTSIDE FACE
OG	ORIGINAL GROUND
OH	OVERHEAD
OHW	ORDINARY HIGH WATER
OLW	ORDINARY LOW WATER

"P"

PAVT	PAVEMENT
PC	POINT OF CURVATURE
PED POLE	PEDESTRIAN POLE
PERF	PERFORATED
PI	POINT OF INTERSECTION
POR	PORCH
PP	POWER POLE
PSD	PASSING SIGHT DISTANCE
PSICPP	PERFORATED SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
PT	POINT OF TANGENT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
℄	PROPERTY LINE
PROP	PROPOSED

"Q"

QTY	QUANTITY

"R"

R	RADIUS
RCP	REINFORCED CONCRETE PIPE REDUCING
RED.	OR REDUCER
REQD	REQUIRED
REV	REVISION / REVISED
RJ	RESTRAINED JOINT
ROW	RIGHT OF WAY
RR	RAIL ROAD
RTE	ROUTE
RW	RETAINING WALL

"S"

S	SOUTH
SA	SANITARY SEWER
SC	SPIRAL TO CURVE
S/C	SITE/CIVIL
SCH	SCHEDULE
SEC	SECOND
SECT	SECTION
SF	SQUARE FOOT
SHLDR	SHOULDER
SICPP	SMOOTH INTERIOR CORRUGATED PE
SMH	SANITARY MANHOLE
SPK	SPIKE
SQ	SQUARE
SSD	STOPPING SIGHT DISTANCE
STL	STAINLESS STEEL (OTHER THAN PIPING)
STA	STATION
STK	STAKE
SW	SIDEWALK

"T"

T	TANGENT LENGTH
T	TELEPHONE
TB	TOP OF BANK
TBD	TO BE DETERMINED
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TELBOX	TELEPHONE BOX
TEL P	TELEPHONE POLE
TEMP	TEMPORARY
TG	TOP OF GRATE
TMH	TELEPHONE MANHOLE
TOW	TOP OF WALL
TS	TANGENT TO SPIRAL
TYP	TYPICAL

"U"

UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
U/S	UNDERSIDE

"V"

VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL

"W"

W	WATER
W	WEST
W/O	WITHOUT
W/	WITH
WSB	WATER SERVICE BOX
WT	WEIGHT
WV	WATER VALVE
WW	WING WALL

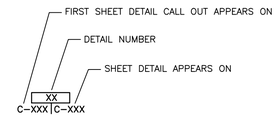
SITE SYMBOLS

EXISTING		PROPOSED	
CLM	CABLE TV, MARKER		AREA, BRUSH LINE ALSO LIMITS OF CLEARING
CTV PB	CABLE TV, PULL BOX		CABLE TV, PEDESTAL
OH C	CABLE TV, OVERHEAD	C	CABLE TV, PULL BOX
UG C	CABLE TV, UNDERGROUND	OH C	CABLE TV, OVERHEAD
400	CONTOUR, MAJOR	UG C	CABLE TV, UNDERGROUND
401	CONTOUR, MINOR	500	CONTOUR, MAJOR
APE	EASEMENT, APPROXIMATE PERMANENT	501	CONTOUR, MINOR
PE	EASEMENT, PERMANENT		E & S, CHECK DAM
TE	EASEMENT, TEMPORARY		E & S, CONSTRUCTION ENTRANCE
ELEC MH RIM:XXX.XX	ELECTRIC, MANHOLE		E & S, INLET PROTECTION
EM	ELECTRIC, METER		E & S, RIP-RAP OUTLET PROTECTION
PB	ELECTRIC, PULLBOX		E & S, STONE & BLOCK INLET PROTECTION
OH E	ELECTRIC LINE, OVERHEAD		E & S, SILT FENCE
UG E	ELECTRIC LINE, UNDERGROUND		E & S, SUPER SILT FENCE
4' CHAINLINK FENCE	FENCE, CHAIN LINK	PE	EASEMENT, PERMANENT
OH FO	FIBER OPTIC, OVERHEAD	TE	EASEMENT, TEMPORARY
UG FO	FIBER OPTIC, UNDERGROUND	E	ELECTRIC, MANHOLE
GLM	GAS, LINE MARKER	M	ELECTRIC, METER
G	GAS, MANHOLE	E	ELECTRIC, PULLBOX
GM	GAS, METER	OH E	ELECTRIC LINE, OVERHEAD
GV	GAS, VALVE	UG E	ELECTRIC LINE, UNDERGROUND
GAS VENT	GAS, VENT	OH FO	FIBER OPTIC, OVERHEAD
G	GAS, UNDERGROUND	UG FO	FIBER OPTIC, UNDERGROUND
W BEAM GUIDERAIL	GUIDERAIL W BEAM	G	GAS, MANHOLE
LP	LIGHTING, SITE POLE	G	GAS, METER
OLM	OIL LINE MARKER		GAS, VALVE
℄	PROPERTY LINE	G	GAS, UNDERGROUND
UP/L	POLE, WITH LIGHT	UG L	LIGHTING CIRCUIT, UNDERGROUND
UP NM 45	POLE, WITH UTILITY	0.1	LIGHTING, ISO FOOT CONTOUR
ROW	RIGHT OF WAY LINE		LIGHTING, SITE POLE
S	SANITARY SEWER, MANHOLE		LIGHTING, SITE POLE, WALL MOUNT
S-ST	SANITARY/STORM, COMBINED SEWER		POLE, WITH LIGHT
SL	SANITARY SEWER, LATERAL		POLE, WITH UTILITY
F	SANITARY, FORCE MAIN	S	SANITARY SEWER MANHOLE
S	SANITARY SEWER, UNDERGROUND	S	SANITARY SEWER, UNDERGROUND
SIGN	SIGN	SL	SANITARY SEWER, LATERAL
X 401.23	SPOT ELEVATION	F	SANITARY FORCE MAIN
CO	CLEAN OUT		SIGN
	STORM CATCH BASIN	X 401.23	SPOT ELEVATION
D	STORM SEWER MANHOLE		CLEAN OUT
	STORM END SECTION		FLOW DIRECTIONAL ARROW
DL	STORM SEWER, LATERAL		STORM CATCH BASIN
D	STORM SEWER, UNDERGROUND		STORM END SECTION
	SWALE	D	STORM SEWER MANHOLE
TBOX	TELEPHONE, BOX	DL	STORM SEWER, LATERAL
T	TELEPHONE, MANHOLE	D	STORM SEWER, UNDERGROUND
TLM	TELEPHONE, MARKER		SWALE
OH T	TELEPHONE, OVERHEAD	T	TELEPHONE, MANHOLE
UG T	TELEPHONE, UNDERGROUND		TELEPHONE, PEDESTAL
XX-X-XXXX	TEST BORING LOCATION	OH T	TELEPHONE, OVERHEAD
6" PINE	TREE, CONIFEROUS	UG T	TELEPHONE, UNDERGROUND

SITE SYMBOLS CONT.

EXISTING		PROPOSED	
6" MAPLE	TREE, DECIDUOUS	XX-X-XXXX	TEST BORING LOCATION
	BRUSH LINE		TREE, CONIFEROUS
	TREE LINE		TREE, DECIDUOUS
EOW	WATERS EDGE		SHRUB
HYD	FIRE HYDRANT		FIRE HYDRANT
	WATER MANHOLE		WATER MANHOLE
WM	WATER METER		WATER METER
WV	WATER VALVE		WATER VALVE
W	WATER MAIN	W	WATER MAIN
WS	WATER SERVICE	WS	WATER SERVICE
	WETLAND		
A1	WETLAND FLAG		

TYPICAL DETAIL CALLOUT



PIPING SERVICE IDENTIFICATION

BWR	BACKWASH RETURN
BWS	BACKWASH SUPPLY
BWT	BACKWASH TRANSFER
BWW	BACKWASH WASTE
CW	COLD WATER, POTABLE
CWS	COMBINED WATER SUPPLY
D/W	DRAIN/WASTE
FM	FORCEMAIN (SANITARY)
FPS	FIRE PROTECTION SUPPLY
FWT	FILTER TO WASTE
GAS	NATURAL GAS
NPW	NON-POTABLE WATER
PD	PROCESS DRAIN
PW	PLANT WATER
RW	RAW WATER
SAN	SANITARY SEWER
SAW	SAMPLE WATER
SPD	SUMP PUMP DISCHARGE
ST	STORM SEWER
SWWS	SCREEN WASH WATER SUPPLY
V	VENT

PIPE MATERIALS

CI	CAST IRON
CMP	CORRUGATED METAL PIPE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CS	CARBON STEEL
CU	COPPER
DI	DUCTILE IRON
GS	GALVANIZED STEEL
HDPE	HIGH DENSITY POLYETHYLENE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
SS	STAINLESS STEEL

VALVES

AVV	AIR/VACUUM VALVE
ARV	AIR RELEASE VALVE
BV	BALL VALVE
BFV	BUTTERFLY VALVE
CV	CHECK VALVE
DV	DIAPHRAGM VALVE
GV	GATE VALVE
KGV	KNIFE GATE VALVE
PRV	PRESSURE REGULATING VALVE
PRLV	PRESSURE RELIEF VALVE
PV	PLUG VALVE
PIV	POST INDICATOR VALVE

FINAL REVIEW

REV	DESCRIPTION	DATE	BY
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6			
5			
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3			
2			
1			

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FA PROJECT NO. 134024
PROJECT MANAGER D. YANOSH
DRAWN BY D. YANOSH
SCALE AS SHOWN
ISSUE DATE 5/19/14

FISHER ASSOCIATES
WWW.FISHERASSOC.COM
135 Calkins Road, Rochester, NY 14623
Phone: 585.334.1310

PROJECT
PHOTECH SITE DEVELOPMENT

TITLE OF DRAWING
ABBREVIATIONS AND LEGEND

DRAWING NO.
C-100

SHEET 2 OF 32

FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 Index_Abbrev_Legend.dwg
DATE/TIME: 5/19/2014 12:36:17 PM
USER: Dan Yanosh

SURVEY NOTES:

1. HORIZONTAL DATUM AND VERTICAL DATUM SHOWN HEREIN IS REFERENCED TO A MAP PREPARED BY LABELLA ASSOCIATES, P.C. ENTITLED "TOPOGRAPHIC SURVEY" NO DATE.
2. UNDERGROUND UTILITIES SHOWN HEREON WERE PLOTTED FROM FIELD LOCATIONS, VISIBLE AT THE TIME OF SURVEY. THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOULD BE STAKED BY THE RESPECTIVE UTILITY COMPANY PRIOR TO ANY CONSTRUCTION.
3. TOPOGRAPHIC SURVEY SHOWN HEREON WAS COMPLETED ON JANUARY 25, 2013 BY LABELLA ASSOCIATES, P.C. AND ADDITIONAL TOPOGRAPHIC SURVEY SHOWN HEREON WAS COMPLETED ON NOVEMBER 12, 2013 BY FISHER ASSOCIATES.

SITE NOTES:

1. CITY OF ROCHESTER
   TAX ACCOUNT NUMBER: 90.63–1–1
   L. 8903, P. 379
   AREA = 12.48 ACRES
2. ZONING – INDUSTRIAL
3. THIS PARCEL IS LOCATED IN THE CITY OF ROCHESTER WATER DISTRICT AND MONROE COUNTY PURE WATERS ROCHESTER PURE WATERS DISTRICT.
4. EXISTING UTILITIES WERE PLOTTED FROM REFERENCED SURVEY AND RECORD MAPS
5. SIGHT DISTANCE AT 30 MPH EXISTING SPEED LIMIT:
   ACTUAL: LEFT 1000'+ RIGHT 550'+
   REQUIRED: 200'
6. THE SITE CONTAINS FEDERAL REGULATED WETLANDS.
7. THIS PROJECT IS NOT LOCATED WITHIN FEMA 1% ANNUAL FLOODPLAIN ACCORDING TO FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 36055, PANEL 191 AND 192, MAP SUFFIX:G, MAP NUMBER 36055C0191G AND 36055C0192G, EFFECTIVE DATE AUGUST 28, 2008.

MCPW – ROCHESTER PURE WATERS DISTRICT NOTES:

1. THIS PLAN REQUIRES APPROVAL AND ISSUANCE OF A PLUMBING PERMIT FROM THE CITY OF ROCHESTER PLUMBING DEPARTMENT.
2. PRIOR TO CONSTRUCTION, A SEWER CONNECTION PERMIT MUST BE OBTAINED FROM THE ROCHESTER PURE WATERS DISTRICT PERMIT OFFICE LOCATED AT 444 EAST HENRIETTA ROAD, BUILDING 15, ROCHESTER NEW YORK 14620–4643, 760–7600 (OPTION 5).
3. A SEWER CONNECTION PERMIT CAN ONLY BE ISSUED TO A LICENSED PLUMBER WHO IS FULLY INSURED AND BONDED IN THE ROCHESTER PURE WATERS DISTRICT. ALL APPLICABLE PERMIT FEES MUST BE PAID PRIOR TO PERMIT ISSUANCE.
4. THE ROCHESTER PURE WATERS DISTRICT SHALL BE NOTIFIED FORTY–EIGHT HOURS IN ADVANCE OF CONNECTION OF A TAP. THE ROCHESTER PURE WATERS DISTRICT SHALL MAKE ALL 4" AND 6" TAPS TO RPWD SEWERS.
5. SANITARY/ STORM / COMBINED SEWER LATERAL(S) AND APPURTENANCES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE ROCHESTER PURE WATERS DISTRICT.
6. CLEANOUTS SHALL BE INSTALLED ON EACH SANITARY/STORM/COMBINED LATERAL(S) AT THE PROPERTY LINE OR THE ROCHESTER PURE WATERS DISTRICT EASEMENT LINE.
7. ANY EXISTING LATERAL(S) NOT UTILIZED MUST BE ABANDONED TO DISTRICT STANDARDS AT THE PROPERTY LINE OR ROCHESTER PURE WATERS DISTRICT EASEMENT LINE.
8. FLOOR DRAINS, IF CONSTRUCTED, SHALL BE CONNECTED TO THE SANITARY/ COMBINATION SEWER. FLOOR DRAINS DO NOT INCLUDE FOUNDATION/ FOOTER DRAINS.

   NOTE:
   ALL DISCHARGES TO THE SANITARY/COMBINED SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR THE MONROE COUNTY SEWER USE LAW.
9. ANY NEW PORTION OF SEWER LATERAL INSTALLED WITHIN THE R.O.W. MUST BE SDR–21 PVC.

STORM SEWER NOTES:

1. MATERIALS

   A. SELECT BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF NYSDOT SPECIFICATIONS, SECTION 203, ITEM 203.07.

   B. BEDDING MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NYSDOT SPECIFICATIONS, SECTION 203, ITEM 203.07, EXCEPT THAT MAXIMUM PARTICLE SIZE SHALL BE 2".

   C. SUITABLE MATERIAL FROM THE EXCAVATION SHALL BE ANY MINERAL (INORGANIC) SOIL FREE OF MUCK, PEAT, INORGANIC SILT, TOPSOIL AND SOD AND SHALL HAVE A MINIMUM PARTICLE SIZE OF 4".

   D. BACKFILL ABOVE THE BEDDING MATERIAL UNDER PUBLIC AND PRIVATE PAVED AREAS SHALL BE WITH SELECT BACKFILL.

   E. BACKFILL ABOVE THE BEDDING MATERIAL UNDER LAWN AREAS MAY BE WITH SUITABLE MATERIAL FROM THE EXCAVATIONS.

   F. WHEN UNSTABLE TRENCH BOTTOM CONDITIONS ARE ENCOUNTERED, UNDERCUT AND BACKFILL WITH PRIMARY SIZE STONE, NYSDOT SPECIFICATIONS, SECTION 703–02, PRIMARY SIZE 1,2,3 OR 4. DEPTH OF UNDERCUT SHALL BE AS SPECIFIED BY OWNERS REPRESENTATIVE.
2. COMPACTION REQUIRED FOR ALL BEDDING, SELECT FILL AND BACKFILL WORK. SEE SPECIFICATIONS FOR REQUIREMENTS.
3. FRAME AND COVER TO BE CAST IRON, ASTM A–48, CLASS 30, HS–20 LOADING, LOCAL MUNICIPAL STANDARD FOR DEDICATED SEWERS. FOR PRIVATE SEWERS, USE SYRACUSE CASTING NO. 1032 OR EQUIVALENT.
4. ALL DRAINAGE STRUCTURES TO HAVE OPEN GRATING TOP UNLESS "COVERED MANHOLE SYMBOL" IS INDICATED ON THE UTILITY DRAWING. FOR "SOLID COVER" STRUCTURES, REVISE TOP DETAIL TO BE SAME AS THAT SHOWN FOR SANITARY SEWER MANHOLE WITH 24" DIAMETER OPENING, EXCEPT THAT LETTERING ON COVERS FOR STORM MANHOLES SHALL BE "STORM".
6. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION ON 5%. IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PROPOSED RIM ELEVATIONS IN RELATION TO PROPOSED GRADE PRIOR TO INSTALLATION.
8. PIPE CONNECTIONS TO STORM MANHOLES SHALL BE WITH NON–SHRINK GROUT.
9. SANITARY SEWER AND STORM SEWER PIPE AND FITTINGS SHALL BE PVC SDR–35 CONFORMING TO ASTM D–3034.

GENERAL UTILITY NOTES:

1. ALL UTILITIES AND SITE IMPROVEMENTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ROCHESTER "CITY CODE", EXCEPT AS OTHERWISE APPROVED.
2. A REPRODUCIBLE AND ONE (1) PRINT OF "RECORD PLAN" DRAWINGS ARE TO BE FURNISHED TO THE CITY INDICATING THE LOCATION OF SEWERS, MANHOLES AND LATERALS.
3. WATER MAINS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND SPECIFICATIONS OF THE CITY OF ROCHESTER WATER BUREAU.
4. PRIOR TO INSTALLATION OF THE WATER MAIN, THE CONTRACTOR SHALL PROVIDE A SOIL TEST EVALUATION TO DETERMINE THE NEED FOR POLYETHYLENE ENCASEMENT PER ANSI/AWWA C105/AZ1.5–82. SOIL TESTING TO BE CONDUCTED BY AN APPROVED SOIL TESTING LABORATORY.
5. WATER MAINS AND ALL WATER SERVICE LINES TO HAVE A MINIMUM OF FIVE (5) FEET OF COVER FROM FINISHED GRADE.
6. ALL MECHANICAL JOINT FITTINGS (TEES, BENDS, PLUGS, ETC.) SHALL BE BACKED WITH 2500 PSI CONCRETE THRUST BLOCKS.
7. BACKFILL IN SEWER TRENCHES, CROSSING ROADS, SHALL BE COMPACTED TO 95% MODIFIED.
8. EROSION/SILTATION CONTROL IS THE RESPONSIBILITY OF THE DEVELOPER.
9. HIGHWAY DRAINAGE ALONG AN EXISTING ROAD SHALL BE MAINTAINED.
10. ALL WATER FITTINGS NOT RECEIVING 24–HOUR CHLORINE DISINFECTION CONTACT TIME MUST BE SWAB DISINFECTED WITH A 5% CHLORINE SOLUTION 30 MINUTES PRIOR TO INSTALLATION.
11. THE MONROE COUNTY DEPARTMENT OF HEALTH MUST RECEIVE AT LEAST 48–HOUR ADVANCED NOTIFICATION REQUESTING SAMPLING SERVICES. SAMPLING WILL NOT BE PERFORMED PRIOR TO RECEIPT FROM NEW YORK STATE LICENSED OR REGISTERED DESIGN PROFESSIONAL (ENGINEER, ARCHITECT OR LAND SURVEYOR WITH SPECIAL EXEMPTION UNDER SECTION 7208(N) OF THE EDUCATIONAL LAW) CERTIFYING THAT THE WATER SUPPLY IMPROVEMENTS, TESTING AND DISINFECTION PROCEDURES WERE COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS, REPORTS, SPECIFICATIONS AND ANY APPROVED AMENDMENTS. THE DEPARTMENT WILL COLLECT SAMPLES FOR FREE CHLORINE RESIDUAL. TOTAL AND FECAL COLIFORM AND 24–HOUR BACTERIAL PLATE COUNT.
12. ELECTRIC AND NATURAL GAS SERVICE AND MAIN LOCATIONS SHALL BE COORDINATED WITH RG&E AND ARE SUBJECT TO CHANGE.
13. THERE SHALL BE NO INTERRUPTION OF ANY UTILITY SERVICE, UNLESS WRITTEN APPROVAL TO DO SO IS OBTAINED FROM THE OWNER.
14. CONTRACTOR SHALL CONTACT "NEW YORK 811" AT WWW.NEWYORK811.COM OR TELEPHONE NUMBER 811 TO SCHEDULE A STAKEOUT FOR LOCATION OF ALL UTILITIES, AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.
15. THE LOCATIONS, SIZES, AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN HEREIN ARE BASED ON RECORD DRAWINGS AND FIELD VERIFICATION WHERE POSSIBLE. THUS, THIS INFORMATION SHALL BE CONSIDERED APPROXIMATE ONLY AND ITS ACCURACY IS NOT GUARANTEED. AS SUCH, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UTILITY INFORMATION PRIOR TO CONSTRUCTION.
16. ALL UTILITIES AND SITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS.
17. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AHEAD OF TRENCHING SO THAT ADJUSTMENTS CAN BE MADE IN ELEVATION AND, OR, ALIGNMENT TO PREVENT CONFLICTS, IF REQUIRED.
18. THE PROPOSED LOCATION OF THE WATER, GAS, AND ELECTRIC UTILITIES ARE BASED ON HORIZONTAL ALIGNMENT ONLY. THUS, THE CONTRACTOR MAY HAVE TO INSTALL THESE UTILITIES AT DEPTHS GREATER THAN SPECIFIED TO AVOID VERTICAL CONFLICTS WITH OTHER SITE FEATURES.
19. IF SHEETING OR SHORING IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS DESIGN, INSTALLATION, AND REMOVAL, AS PART OF THE CONTRACTOR'S ESTIMATE.
20. ALL PAVEMENTS TO BE CROSSED BY UTILITY INSTALLATIONS SHALL BE SAW CUT AT OR BEYOND THE REQUIRED LIMIT OF DISTURBANCE AND RESURFACED TO THE EDGE OF THE EXISTING PAVEMENT. INSTALLATION OF UTILITIES UNDER NEW PROJECT PAVEMENTS SHALL NOT BE PERMITTED UNLESS THE CONTRACTOR RESURFACES THE ENTIRE AREA AT THE CONTRACTOR'S EXPENSE.
21. ALL EXISTING UTILITIES TO BE CROSSED AND ALL UTILITY POLES NEAR EXCAVATIONS SHALL BE PROTECTED, PRESERVED, AND SUPPORTED AS NECESSARY BY THE CONTRACTOR AS PART OF THE CONTRACTOR'S COST ESTIMATE.
22. ANY EXISTING STORM DRAINAGE PIPES, INCLUDING DRIVEWAY CULVERTS, NOT DESIGNATED TO BE REMOVED, WHICH ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH CORRUGATED SMOOTH INTERIOR POLYETHYLENE PIPE WHICH CONFORMS TO AASHTO SPEC. M294 TYPE S, ASTM SPEC D3350, NYSDOT ENGINEERING INSTRUCTION #90–36, AND NYSDOT STANDARD SPECIFICATION SUBSECTION 706–14.
23. ALL EXISTING AND PROPOSED STORM SEWER INLETS SHALL BE PROTECTED UNTIL FINAL STABILIZATION IS ACHIEVED, AS SPECIFIED ON THE GRADING PLAN AND WITHIN THE CONTRACT DOCUMENTS. IF CONTAMINATED, THE CONTRACTOR SHALL CLEAN ALL SEWER INLETS, AND PIPES, AT THE CONTRACTOR'S EXPENSE, PRIOR TO ISSUANCE OF SUBSTANTIAL COMPLETION.
24. WORK WITHIN DRIVING PARK AVENUE A R.O.W. SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CITY OF ROCHESTER PERMITS AND REGULATIONS.
25. EXISTING SANITARY LATERAL LOCATION AND CONDITION TO BE VIDEO VERIFIED PRIOR TO CONNECTION.

GENERAL SITE NOTES:

1. ALL CONSTRUCTION ACTIVITIES SHALL BE RESTRICTED TO THE CONSTRUCTION LIMITS. ANY AREA OUTSIDE THE CONSTRUCTION LIMITS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.
2. SAFE AND CONTINUOUS THROUGH TRAFFIC, INGRESS, AND EGRESS FOR ADJACENT DRIVEWAYS, PARKING SPACES, SERVICE ROADS, AND PUBLIC STREETS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGH THE CONSTRUCTION PERIOD.
3. CONTRACTOR SHALL CONTACT " DIG SAFELY NEW YORK" AT 1–800–962–7962 FOR LOCATION OF ALL UTILITIES, AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION. ALL EXISTING UNDERGROUND UTILITIES SHALL BE PROTECTED FROM DAMAGE UNLESS OTHERWISE SPECIFIED FOR ALTERATION AS PART OF THIS PROJECT.
4. THE CONTRACTOR SHALL BE PERMITTED TO STORE/STAGE EQUIPMENT AND MATERIALS WITHIN THE PROJECT LIMITS AT THE CONTRACTOR'S OWN RISK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPMENT OF THE SITE IN A FASHION THAT WILL PERMIT ADEQUATE STAGING.
5. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD, AND PRESERVE ALL SURVEY CONTROL MONUMENTS AND R.O.W. MONUMENTS IN THE AREAS OF CONSTRUCTION. CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL PROPERTY, EASEMENT AND R.O.W. BOUNDARIES.
6. REFERENCES TO NYSDOT STANDARDS SHALL MEAN THE "NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS" , DATED MAY 4, 2006 AND ALL CURRENT ADDENDA AND MODIFICATIONS.
7. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
8. ALL WORK WITHIN THE CITY OF ROCHESTER RIGHT–OF–WAY WILL REQUIRE A HIGHWAY WORK PERMIT. THE CONTRACTOR SHALL OBTAIN ALL PERMITS PRIOR TO CONSTRUCTION.
9. ALL WORK SHALL COMPLY WITH ALL OSHA, FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS.
10. THE CONTRACTOR SHALL VERIFY SURVEY DATA AS DEPICTED ON THE PLANS. ANY DISCREPANCIES OR OTHER ITEMS IN CONFLICT SHALL BE NOTED AND ADJUSTED WITH THE OWNER'S PERMISSION.

GRADING AND EROSION CONTROL NOTES:

1. DRAINAGE PATTERNS SHALL NOT BE CHANGED BY THE CONTRACTOR WITHOUT THE EXPRESS CONSENT OF THE ENGINEER.
2. EROSION CONTROL, GRADING, UTILITY CONSTRUCTION AND ALL OTHER PROPOSED WORK SHALL BE RESTRICTED TO THE LIMITS OF THE SITE AS SHOWN ON THESE DRAWINGS.
3. BUILDINGS SHOWN HEREON ARE GRAPHICAL REPRESENTATIONS ONLY. FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED BUILDINGS REFER TO THE ARCHITECTURAL DRAWINGS.
4. MAINTENANCE OF EROSION/SILTATION CONTROLS WILL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR AS SPECIFIED IN THE STORMWATER PERMIT AND ON THESE DRAWINGS.
5. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION AND ELEVATION OF UNDERGROUND UTILITIES BEFORE COMMENCING CONSTRUCTION. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS TO LOCATE EXISTING UNDERGROUND FACILITIES AS NECESSARY.
6. ALL DISTURBED AREAS NOT TO BE WORKED WITHIN 21 DAYS SHALL BE TEMPORARILY SEEDED WITH QUICK RYE GRASS AND MULCHED WITHIN 14 DAYS OF GRADING COMPLETION TO REDUCE EROSION. PROPERTY SHALL BE FINAL GRADED AND SEEDED (HYDROSEED OR SEED WITH STRAW MULCH) AS SOON AS POSSIBLE.
7. TEMPORARY SEED AND MULCH DITCHES, TOPSOIL STOCKPILE AND ANY OTHER DISTURBED AREAS NOT SCHEDULED FOR IMMEDIATE ADDITIONAL WORK.

   A. TEMPORARY SEEDING SHALL BE PERENNIAL RYEGRASS APPLIED AT A RATE OF 30 LBS. PER ACRE.

   B. MULCH SHALL BE EITHER:

      1. STRAW OR HAY AT 2 TON/ACRE ANCHORED WITH CELLULOSE (WOOD FIBER) HYDROMULCHED AT A RATE OF 500–750 LBS. PER ACRE.

      2. CELLULOSE HYDROMULCHED AT 1 TON PER ACRE WITH NO TIE DOWN.
9. THE CONTROL OF EROSION AND SEDIMENT SHALL BE A CONTINUOUS PROCESS UNDERTAKEN AS NECESSARY AFTER THE COMPLETION IF THIS PROJECT. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED AND REPLACED IF NECESSARY UNTIL SUCH TIME AS A SUBSTANTIAL STAND OF VEGETATION HAS DEVELOPED AND POTENTIAL FOR EROSION NO LONGER EXISTS.
10. ALL EROSION AND SEDIMENT CONTROL METHODS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS.
11. RIP–RAP SHALL BE INSTALLED AT ALL END SECTIONS IN ACCORDANCE WITH THE CONTRACT DRAWINGS.
12. FILL SHALL BE DEPOSITED IN 8" MAXIMUM LIFTS AND COMPACTED TO A MINIMUM 95% MAXIMUM DENSITY ASTM D–1557 AT ITS OPTIMUM MOISTURE CONTENT.
13. JUTE MESH, EXCELSIOR MATTING, OR OTHER ROLLED EROSION CONTROL PRODUCTS SHALL BE INSTALLED ON ALL SLOPES 3 HORIZONTAL TO 1 VERTICAL AND GREATER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
14. ALL DISTURBED AREAS THAT ARE TO BE PERMANENTLY VEGETATED SHALL HAVE SOIL RESTORATION APPLIED IN ACCORDANCE WITH TABLE 5.3 OF THE NYS SMDM.

CONSTRUCTION SEQUENCE:

1. INSTALL SILT FENCE AND CONSTRUCTION SIGNS.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
3. ROUGH GRADE THE SITE INCLUDING GRUBBING AND STRIPPING OF TOPSOIL.
4. INSTALL UNDERGROUND UTILITIES.
5. INSTALL SUBBASE IN PAVEMENT AREAS.
6. REMAINING DISTURBED AREAS WILL BE SEEDED WITH GROUND COVER AND MULCHED AS SOON AFTER DISTURBANCE AS CONSTRUCTION PRACTICES AND WEATHER WILL ALLOW.
7. COMPLETE LANDSCAPING AND PAVING.
8. UPON COMPLETION OF THE PROJECT AND STABILIZATION OF THE PERMANENT EROSION CONTROL MEASURES, ANY SEDIMENT SHALL BE REMOVED.

CITY OF ROCHESTER WATER BUREAU – PUBLIC WATER SERVICE NOTES:

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

LATERAL IDENTIFICATION	SIZE	MATERIAL	TYPE
CITY OF ROCHESTER PORTION = FROM THE WATER MAIN TO AND INCLUDING THE CURB VALVE, LOCATED 2' BEHIND THE CURB	6"	DIP	CMB
PRIVATE PORTION = FROM THE CURB VALVE TO THE BUILDING	6"	DIP	CMB

5. THE CITY OF ROCHESTER PORTION OF THE WATER SERVICE LINE SHALL BE INSTALLED PRIOR TO THE PRIVATE PORTION OF THE SERVICE LINE.
6. WATER SERVICE LINES SIZED 4" OR GREATER SHALL:

   A. BE PRESSURE/LEAKAGE TESTED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE AWWA STANDARD C600 (LATEST REVISION) OR IN ACCORDANCE WITH MORE STRINGENT SPECIFICATIONS OF THE CITY OF ROCHESTER WATER BUREAU.

   B. BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS DESIGNATION C–651 USING THE CONTINUOUS FEED METHOD. THE SLUG METHOD CAN ONLY BE USED FOR MAINS 24" OR GREATER IN DIAMETER. FOLLOWING DISINFECTION, THE WATER MAIN SHALL BE FLUSHED UNTIL CHLORINE MEASUREMENTS SHOW THAT THE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM. UPON COMPLETION OF DISINFECTION AND FLUSHING, THE MONROE COUNTY DEPARTMENT OF HEALTH WILL COLLECT BACTERIOLOGICAL SAMPLES FOR TOTAL AND FECAL COLIFORM AND STANDARD PLATE COUNT. THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING. SAMPLES OF WATER MUST BE COLLECTED FROM THE MAIN AND EACH BRANCH. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS. THE WATER MAIN SHALL NOT BE PLACED IN SERVICE UNTIL SO AUTHORIZED BY THE MONROE COUNTY DEPARTMENT OF HEALTH.

   C. HAVE A MINIMUM SEPARATION BETWEEN WATER LATERALS AND SEWER MAINS TO BE 18" VERTICALLY MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. MINIMUM HORIZONTAL SEPARATION BETWEEN WATER LATERALS AND SEWER MAINS TO BE 10' MEASURED FROM THE OUTSIDE OF THE PIPES. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECT FILL) SHALL BE PROVIDED FOR THE SEWERS TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING THE WATER MAINS.
7. SEE THE WATER SERVICE TABLE FOR THE SIZE, TYPE AND DISPOSITIONS OF ALL WATER SERVICES WITHIN THE LIMITS OF WORK FOR THIS PROJECT ALL SERVICES HAVE BEEN REFERENCED FROM THE CENTERLINE OF IMPROVEMENTS STATION AS SHOWN ON THE PLANS.
8. NO SEPARATE PAYMENT WILL BE MADE FOR TEMPORARY SHEETING OF EXCAVATIONS FOR WATER MAIN WORK IN THIS PROJECT. THE COST OF PROVIDING ALL NECESSARY TRENCH PROTECTION IN ACCORDANCE WITH THE PROVISIONS OF SECTION R206 OF THE CITY OF ROCHESTER STANDARD CONSTRUCTION CONTRACT DOCUMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 206.04.
9. WHEN INSTALLING FIRE HYDRANTS, SHOULD GROUND WATER BE ENCOUNTERED WITHIN 7 FEET OF THE FINISHED GRADE, FIRE HYDRANT WEEP HOLES ARE TO BE PLUGGED, AND THE WATER BUREAU NOTIFIED IN WRITING THAT THE WEEP HOLES HAVE BEEN PLUGGED.
10. THE ROCHESTER WATER BUREAU REQUIRES A HYDRANT USE PERMIT BE OBTAINED BY THE CONTRACTOR PRIOR TO USING ANY HYDRANT AS A SOURCE OF WATER SUPPLY. THE PERMIT REQUIRES THE USE OF A WATER METER AND BACKFLOW PREVENTER. THE WATER BUREAU WILL SUPPLY A HYDRANT WRENCH, WATER METER, METER SETTING AND BACKFLOW PREVENTER WITH THE PERMIT. THE PERMIT FEE INCLUDES A REFUNDABLE DEPOSIT FOR THE USE OF THE HYDRANT WRENCH, WATER METER, METER SETTING AND BACKFLOW PREVENTER.

FINAL REVIEW

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FA PROJECT NO.
134024
PROJECT MANAGER
D. YANOSH

DRAWN BY
D. YANOSH
SCALE
AS SHOWN
ISSUE DATE
5/19/14

FISHERASSOCIATES
WWW.FISHERASSOC.COM
135 Commerce Drive, Rochester, NY 14623
Phone: 585-359-1311

PROJECT
PHOTECH SITE DEVELOPMENT

TITLE OF DRAWING
GENERAL NOTES

DRAWING NO.
C-105

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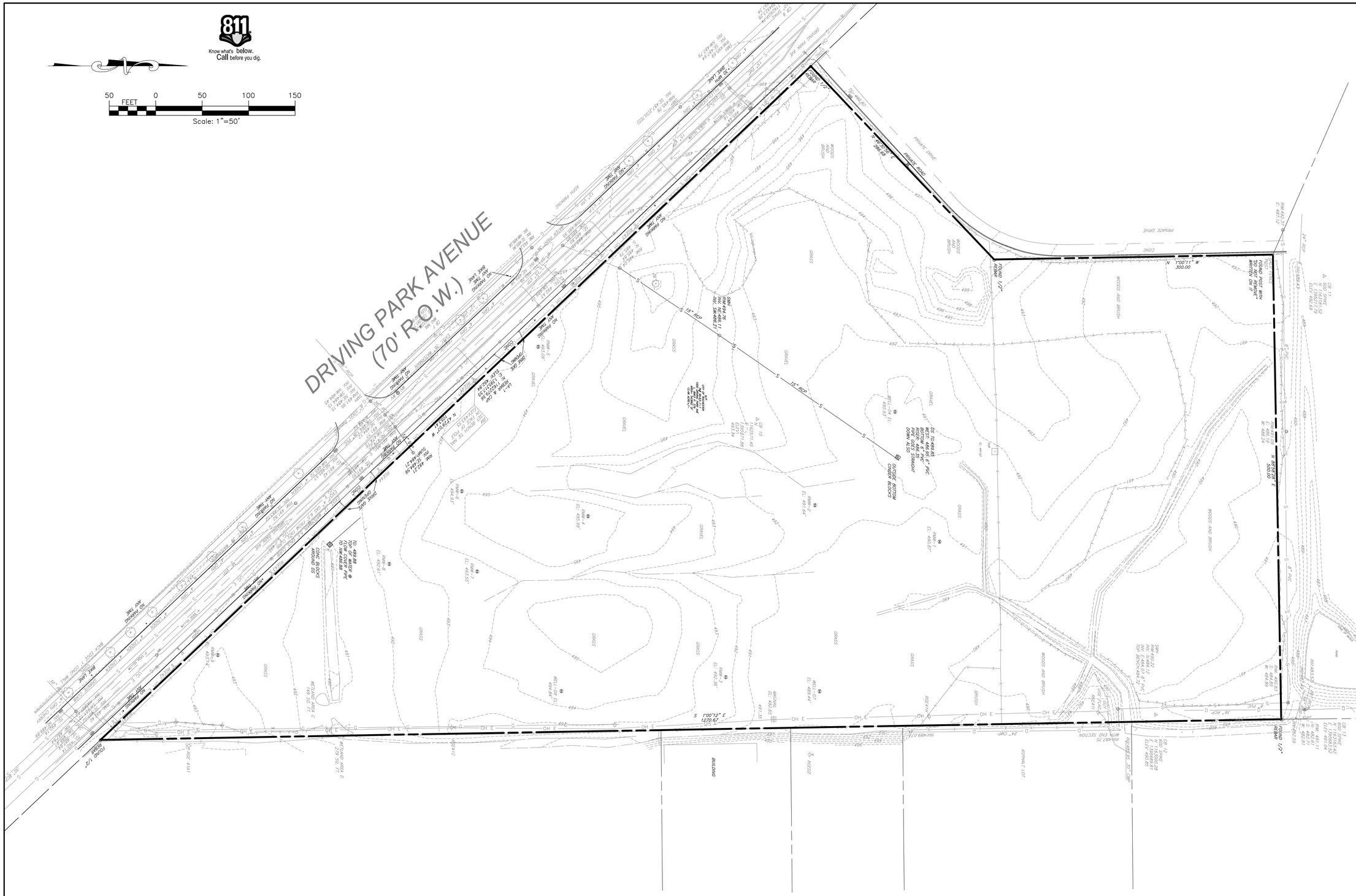

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FA PROJECT NO.
134024

PROJECT MANAGER
D. YANOSH

DRAWN BY
D. YANOSH

SCALE
AS SHOWN

ISSUE DATE
5/19/14

FISHER ASSOCIATES
WWW.FISHERASSOC.COM
135 Calkins Road, Rochester, NY 14623
Phone: 585-334-1310

PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
EXISTING CONDITIONS PLAN

DRAWING NO.
C-110

SHEET 4 OF 32

Know what's below. Call before you dig.

50 0 50 100 150
FEET
Scale: 1"=50'

DRIVING PARK AVENUE (70' R.O.W.)

REMOVE EXISTING FENCE

EXISTING SANITARY MANHOLE TO REMAIN RIM TO BE ADJUSTED TO PROPOSED FINISH GRADE, ITEM 604.070401 (SEE GRADING PLAN)

REMOVE EXISTING SANITARY MANHOLE

REMOVE 364 LF EXISTING 15" RCP

SAWCUT PAVEMENT

REMOVE 100 LF EXISTING GRANITE CURB DROP

EXISTING SANITARY MANHOLE TO REMAIN

REMOVE 34 LF EXISTING 12" VTP PIPE

SAWCUT PAVEMENT ITEM 627.50140008

CONTRACTOR TO COORDINATE WITH RG&E FOR UTILITY POLE AND LIGHT RELOCATION.

REMOVE EXISTING SANITARY MANHOLE

REMOVE 50 LF EXISTING GRANITE CURB DROP

REMOVE 133 LF EXISTING DRAINAGE PIPE

REMOVE EXISTING DRAINAGE STRUCTURE

EXISTING MONITORING WELLS TO REMAIN. ADJUST TO FINISH GRADE (SEE GRADING PLAN). (TYP)

REMOVE EXISTING FENCE

REMOVE EXISTING FENCE

REMOVE EXISTING DRAINAGE STRUCTURE

REMOVE EXISTING FENCE

FINAL REVIEW

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FA PROJECT NO.
134024
PROJECT MANAGER
D. YANOSH
DRAWN BY
D. YANOSH
SCALE
AS SHOWN
ISSUE DATE
5/19/14

FISHER ASSOCIATES
WWW.FISHERASSOC.COM
135 Calkins Road, Rochester, NY 14623
Phone: (585) 334-3131

PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
DEMOLITION PLAN

DRAWING NO.
C-115

Know what's **below.**
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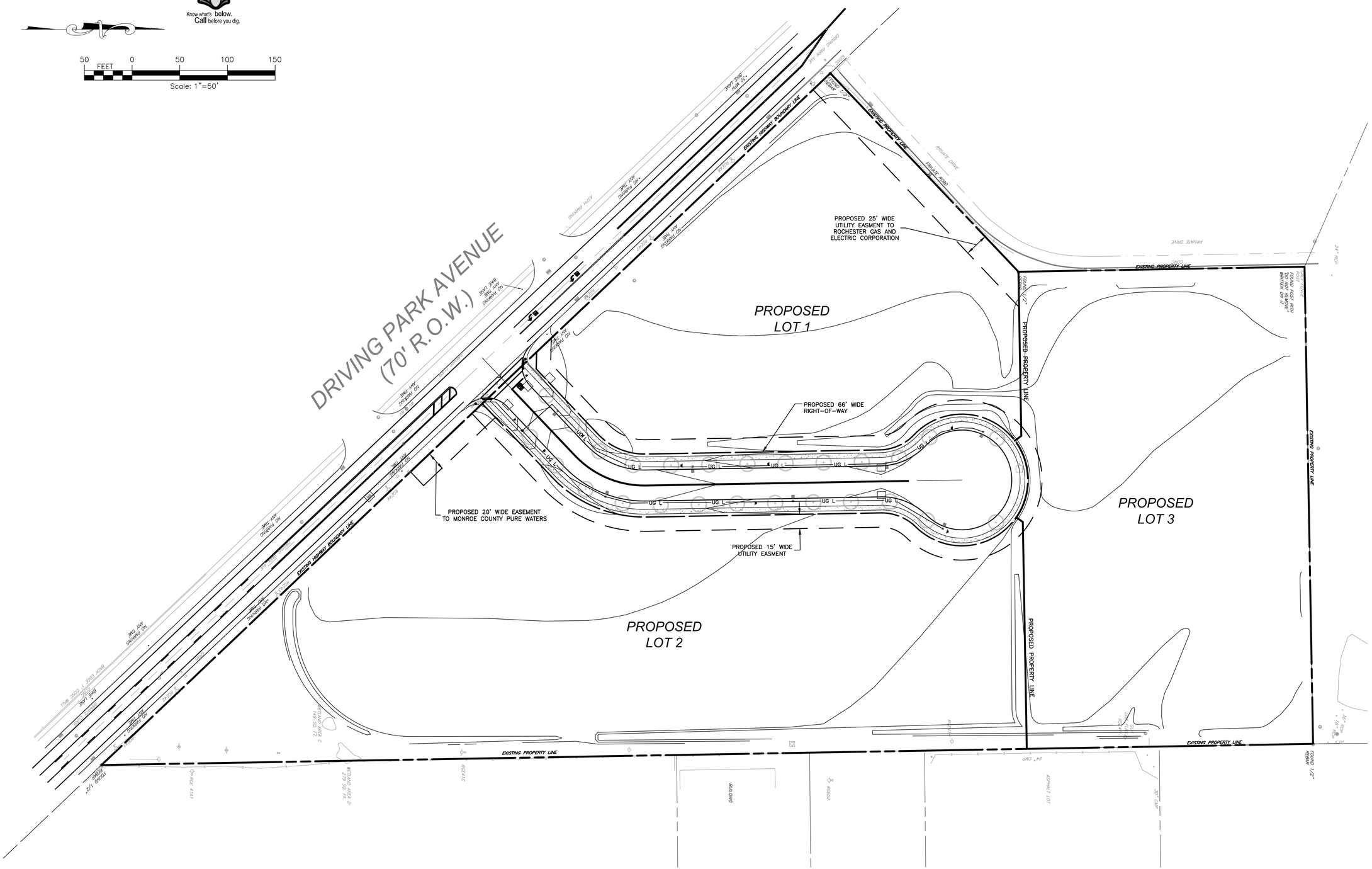

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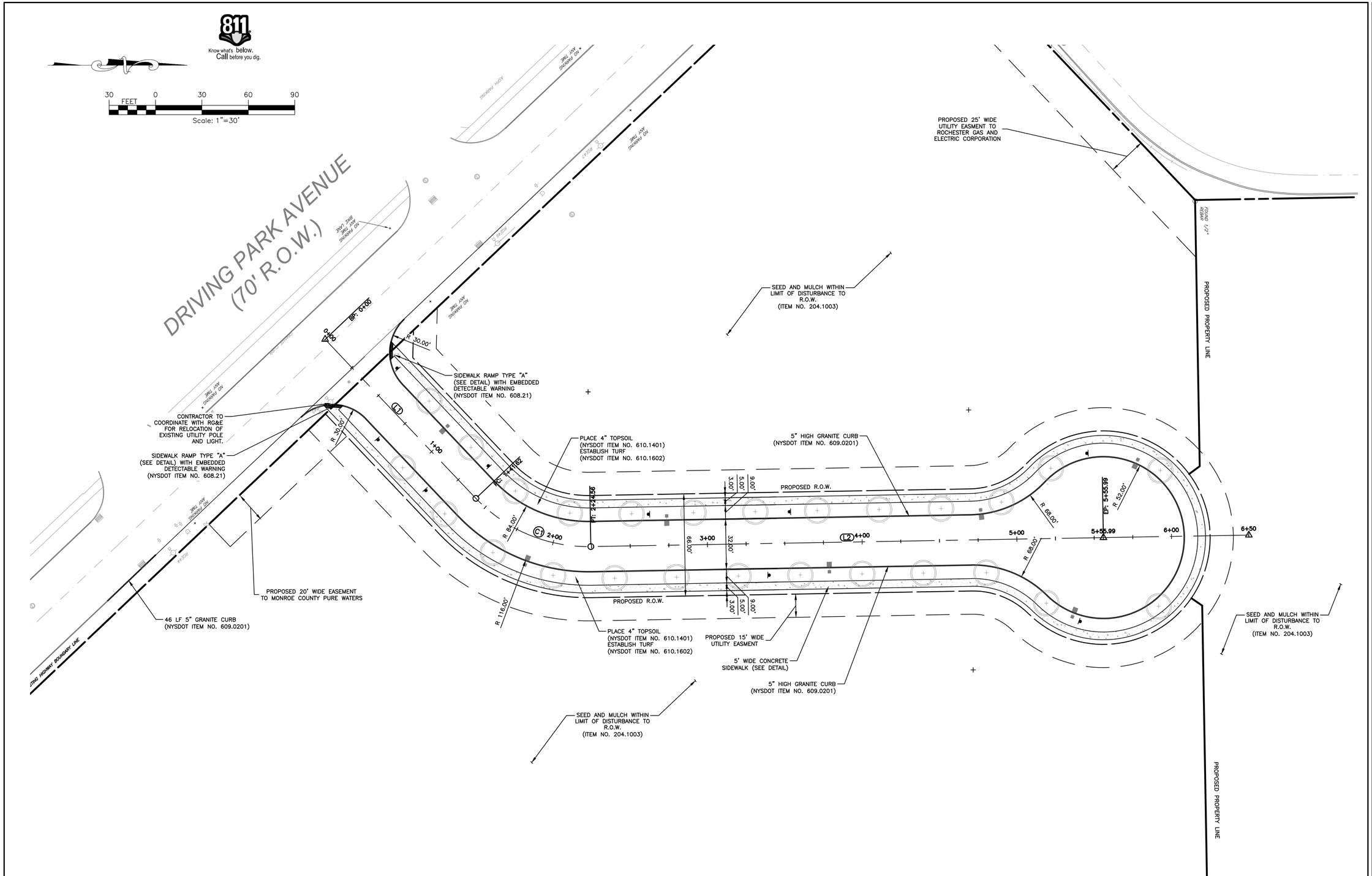
FA PROJECT NO.
134024
PROJECT MANAGER
D. YANOSH
DRAWN BY
D. YANOSH
SCALE
AS SHOWN
ISSUE DATE
5/19/14

FISHERASSOCIATES
WWW.FISHERASSOC.COM
135 Calkins Road, Rochester, NY 14623
Phone: 585-334-1310

PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
OVERALL SITE PLAN

DRAWING NO.
C-120



CENTERLINE OF ROAD ALIGNMENT							
NUMBER	LENGTH	RADIUS	LINE/CHORD DIRECTION	BEGIN NORTHING	BEGIN EASTING	END NORTHING	END EASTING
L1	141.62		N 46° 30' 53.1" E	1162264.14	1395290.06	1162361.60	1395392.81
C1	82.93	100.00	N 22° 45' 20.6" E	1162361.60	1395392.81	1162435.91	1395423.98
L2	331.43		N 1° 00' 12.0" W	1162435.91	1395423.98	1162767.29	1395418.18

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FA PROJECT NO. 134024
PROJECT MANAGER D. YANOSH
DRAWN BY D. YANOSH
SCALE AS SHOWN
ISSUE DATE 5/19/14

FISHER ASSOCIATES
WWW.FISHERASSOC.COM
135 Calkins Road, Rochester, NY 14623
Phone: 585-334-1310

PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

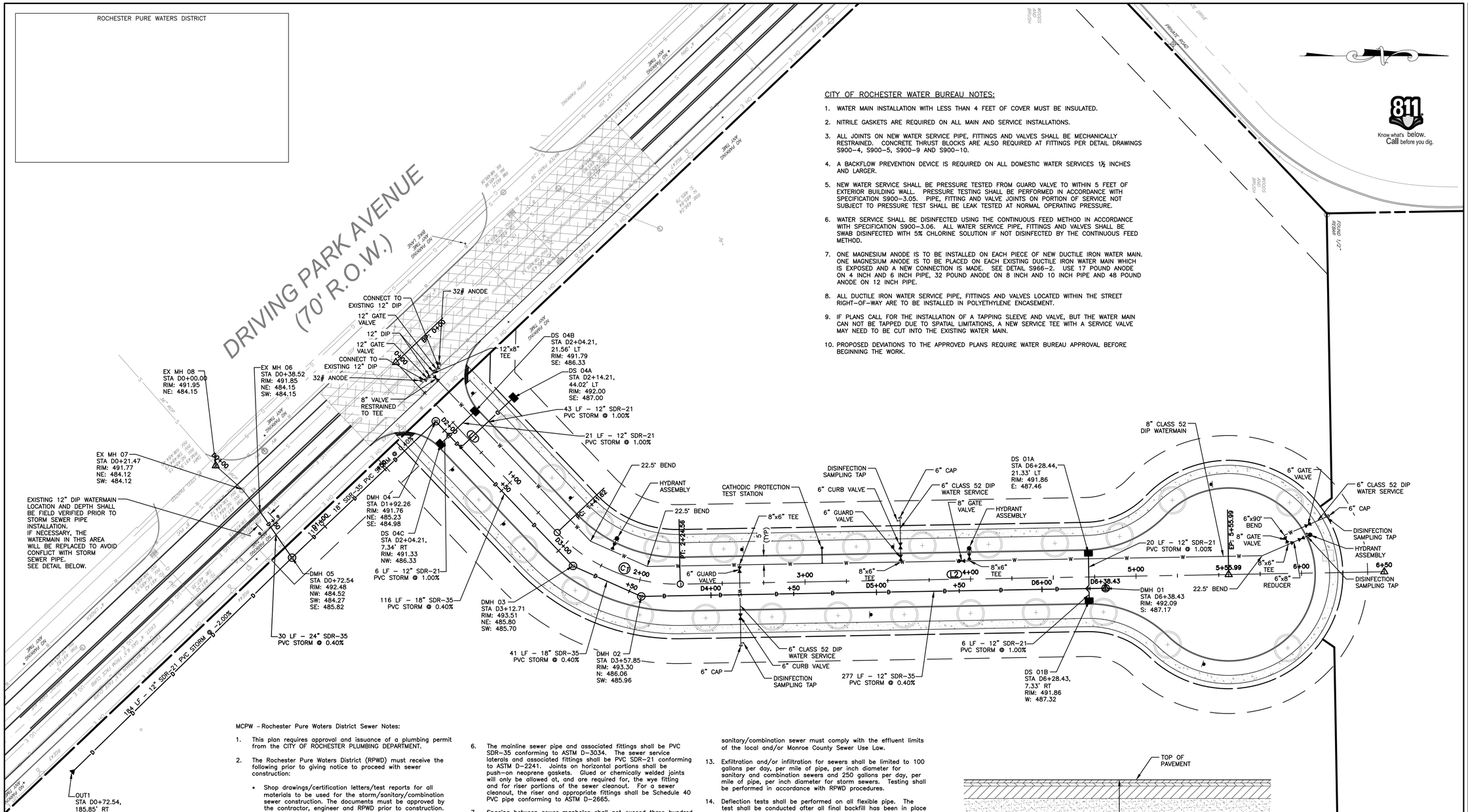
TITLE OF DRAWING
SITE PLAN

DRAWING NO.
C-125

SHEET 7 OF 32

FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 Site Plan.dwg
DATE/TIME: 5/19/2014 12:37:27 PM
USER: Dan Yanosh

ROCHESTER PURE WATERS DISTRICT

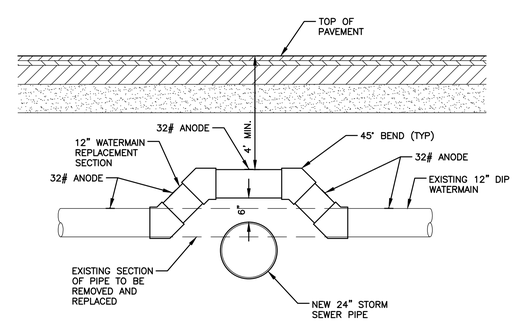


CITY OF ROCHESTER WATER BUREAU NOTES:

1. WATER MAIN INSTALLATION WITH LESS THAN 4 FEET OF COVER MUST BE INSULATED.
2. NITRILE GASKETS ARE REQUIRED ON ALL MAIN AND SERVICE INSTALLATIONS.
3. ALL JOINTS ON NEW WATER SERVICE PIPE, FITTINGS AND VALVES SHALL BE MECHANICALLY RESTRAINED. CONCRETE THRUST BLOCKS ARE ALSO REQUIRED AT FITTINGS PER DETAIL DRAWINGS S900–4, S900–5, S900–9 AND S900–10.
4. A BACKFLOW PREVENTION DEVICE IS REQUIRED ON ALL DOMESTIC WATER SERVICES 1½ INCHES AND LARGER.
5. NEW WATER SERVICE SHALL BE PRESSURE TESTED FROM GUARD VALVE TO WITHIN 5 FEET OF EXTERIOR BUILDING WALL. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION S900–3.05. PIPE, FITTING AND VALVE JOINTS ON PORTION OF SERVICE NOT SUBJECT TO PRESSURE TEST SHALL BE LEAK TESTED AT NORMAL OPERATING PRESSURE.
6. WATER SERVICE SHALL BE DISINFECTED USING THE CONTINUOUS FEED METHOD IN ACCORDANCE WITH SPECIFICATION S900–3.06. ALL WATER SERVICE PIPE, FITTINGS AND VALVES SHALL BE SWAB DISINFECTED WITH 5% CHLORINE SOLUTION IF NOT DISINFECTED BY THE CONTINUOUS FEED METHOD.
7. ONE MAGNESIUM ANODE IS TO BE INSTALLED ON EACH PIECE OF NEW DUCTILE IRON WATER MAIN. ONE MAGNESIUM ANODE IS TO BE PLACED ON EACH EXISTING DUCTILE IRON WATER MAIN WHICH IS EXPOSED AND A NEW CONNECTION IS MADE. SEE DETAIL S966–2. USE 17 POUND ANODE ON 4 INCH AND 6 INCH PIPE, 32 POUND ANODE ON 8 INCH AND 10 INCH PIPE AND 48 POUND ANODE ON 12 INCH PIPE.
8. ALL DUCTILE IRON WATER SERVICE PIPE, FITTINGS AND VALVES LOCATED WITHIN THE STREET RIGHT–OF–WAY ARE TO BE INSTALLED IN POLYETHYLENE ENCASEMENT.
9. IF PLANS CALL FOR THE INSTALLATION OF A TAPPING SLEEVE AND VALVE, BUT THE WATER MAIN CAN NOT BE TAPPED DUE TO SPATIAL LIMITATIONS, A NEW SERVICE TEE WITH A SERVICE VALVE MAY NEED TO BE CUT INTO THE EXISTING WATER MAIN.
10. PROPOSED DEVIATIONS TO THE APPROVED PLANS REQUIRE WATER BUREAU APPROVAL BEFORE BEGINNING THE WORK.

MCPW – Rochester Pure Waters District Sewer Notes:

1. This plan requires approval and issuance of a plumbing permit from the CITY OF ROCHESTER PLUMBING DEPARTMENT.
2. The Rochester Pure Waters District (RPWD) must receive the following prior to giving notice to proceed with sewer construction:
   - Shop drawings/certification letters/test reports for all materials to be used for the storm/sanitary/combination sewer construction. The documents must be approved by the contractor, engineer and RPWD prior to construction.
3. The Rochester Pure Waters District shall be notified, in writing, seven (7) working days in advance of mainline sewer construction, and forty–eight (48) hours in advance of lateral (connection) installation, or District–supplied tap. The DEVELOPER, or his/her AGENT, shall verify the scheduling of all work the day prior to actual work with a phone call to the DISTRICT (760–7600 Option 5).
4. Prior to a lateral (service) connection and installation, a SEWER CONNECTION PERMIT must be obtained from the Monroe County Pure Waters (MCPW) Permit Office, 444 East Henrietta Road, Building 15, Rochester NY 14620.
   - A SEWER CONNECTION PERMIT will not be issued until the new sewer construction is complete; has passed all required tests & inspections; easements to the RPWD are executed (if applicable); an as–built is furnished to and accepted by the RPWD; and, the RPWD has approved and accepted the new sewer.
   - A SEWER CONNECTION PERMIT can only be issued to a licensed plumber that is fully insured and bonded in the RPWD.
   - Applicable SEWER CONNECTION PERMIT fees must be paid prior to or at time of permit issuance. Payment must be made by check or money order payable to the 'RPWD'.
5. Storm/Sanitary/Combination sewers, laterals, and appurtenances shall be constructed in conformance with the Requirements of the Rochester Pure Waters District.
6. The mainline sewer pipe and associated fittings shall be PVC SDR–35 conforming to ASTM D–3034. The sewer service laterals and associated fittings shall be PVC SDR–21 conforming to ASTM D–2241. Joints on horizontal portions shall be push–on neoprene gaskets. Glued or chemically welded joints will only be allowed at, and are required for, the wye fitting and for riser portions of the sewer cleanout. For a sewer cleanout, the riser and appropriate fittings shall be Schedule 40 PVC pipe conforming to ASTM D–2665.
7. Spacing between sewer manholes shall not exceed three hundred feet (300').
8. Cleanouts shall be installed on all 4" and 6" diameter sewer laterals at the Right–Of–Way (ROW) line, or the sewer easement line where applicable. (The sewer easement, right–of–way and/or property line must be staked out prior to installation of lot line cleanouts to ensure proper location of the cleanouts. [refer to cleanout detail for proper installation]).
9. Any portion of a sewer and/or lateral with less than four–feet (4') of cover will require concrete encasement. Sewers/Laterals with less than three–feet (3') of cover are not allowed.
10. Elevations of basements will be such to allow gravity flow of basement fixtures to the sanitary/combination sewer, wherever possible.
11. Special care must be taken to insure sewers are installed to design grades. Any sewer not installed to design grade and below those indicated in Section 33.41 of the Recommended Standards for Wastewater Facilities (Great Lakes–Upper Mississippi River Board of the State Public Health and Environment Managers) [a.k.a. 10 States Standards] will be relayed with at least the recommended minimum slopes at the expense of the DEVELOPER or his/her/their AGENT.
12. Floor drains, if constructed, shall be connected to the sanitary/combination sewer. Floor drains do not include foundation/footer drains. Note: All discharges to the sanitary/combination sewer must comply with the effluent limits of the local and/or Monroe County Sewer Use Law.
13. Exfiltration and/or infiltration for sewers shall be limited to 100 gallons per day, per mile of pipe, per inch diameter for sanitary and combination sewers and 250 gallons per day, per mile of pipe, per inch diameter for storm sewers. Testing shall be performed in accordance with RPWD procedures.
14. Deflection tests shall be performed on all flexible pipe. The test shall be conducted after all final backfill has been in place at least thirty (30) days. No pipe shall exceed a deflection of five percent (5%). If the deflection test is to be run using a rigid ball or mandrel, it shall have a minimum diameter equal to ninety–five percent (95%) of the inside diameter of the pipe. The test shall be performed without mechanical pulling devices.
15. Sewers shall be closed–circuit video taped in accordance with RPWD standards.
16. "AS–BUILT" drawings shall be furnished to the RPWD. The "AS–BUILT" plans shall indicate the exact location of all sewers, manholes, wye branches, laterals, and cleanouts as well as lengths and slopes of pipes. Elevations of all sewer manhole rims and inverts and lateral depths at property lines or RPWD easement lines shall also be shown.
17. The requirements of the highway owner/property owner shall be adhered to for items above the pipe bedding, including, but not limited to, maintenance and protection of traffic, backfill material and surface restoration.



12" WATERMAIN SECTION REPLACEMENT ABOVE NEW STORM SEWER 24" PIPE

NOT TO SCALE

30 FEET 0 30 60 90

Scale: 1"=30'

FINAL REVIEW

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
134024
PROJECT MANAGER
D. YANOSH

DRAWN BY
D. YANOSH
SCALE
AS SHOWN
ISSUE DATE
5/19/14

FISHER ASSOCIATES
WWW.FISHERASSOC.COM
130 Cushing Avenue, Rochester, NY 14620
Phone: 585-334-4310

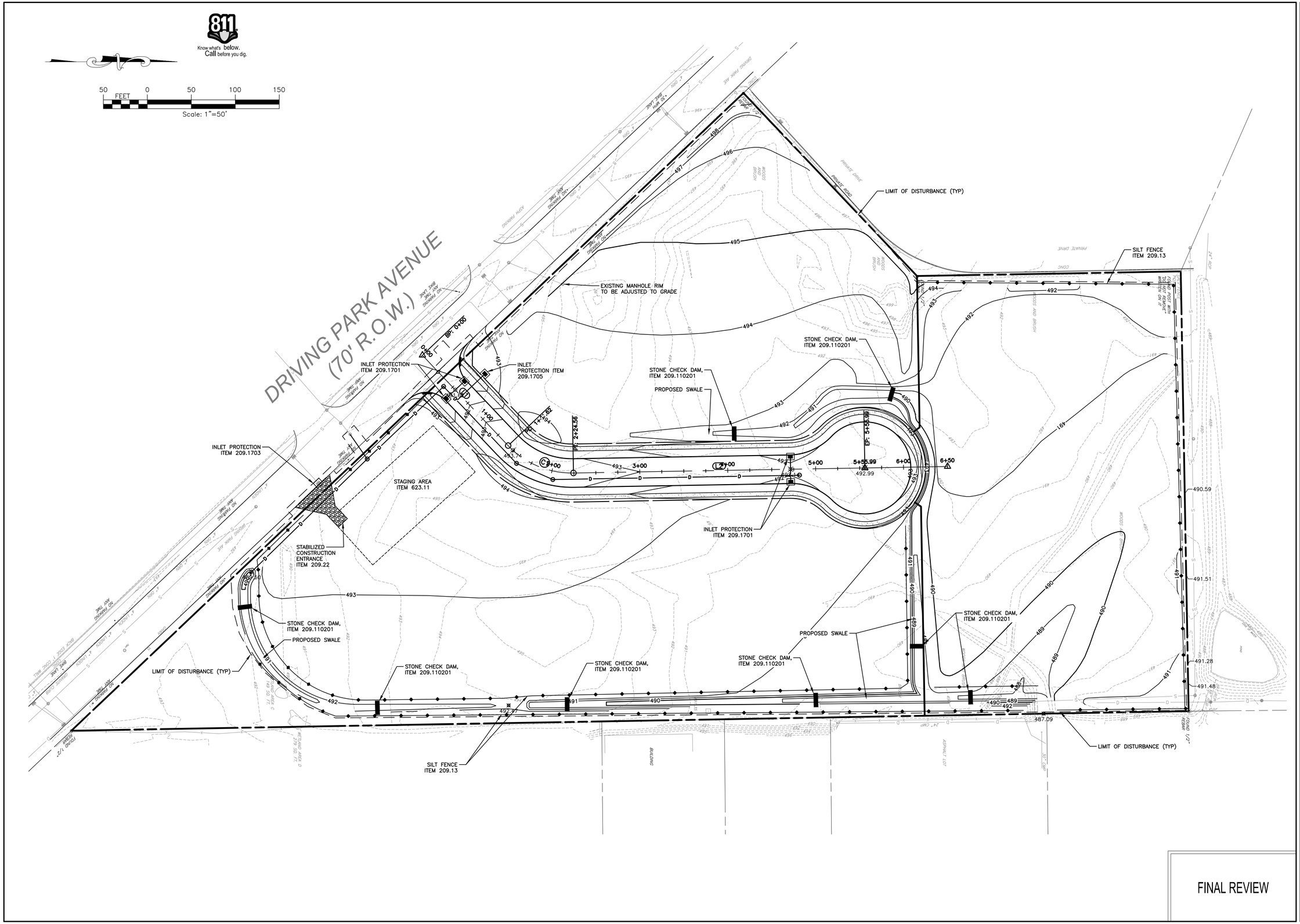
PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
UTILITY PLAN

DRAWING NO.
C-130

SHEET 8 OF 32

FILE NAME: H:\Projects\134024–Photech_Site_Dev\Eng\CAD\CUT\134024 Utility Plan.dwg
DATE/TIME: 5/19/2014 12:37:50 PM
USER: Dan Yanosh



FINAL REVIEW

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134024
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D. YANOSH
DRAWN BY
D. YANOSH
SCALE
AS SHOWN
ISSUE DATE
5/19/14

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WWW.FISHERASSOC.COM
135 Calkins Road, Rochester, NY 14623
Phone: 585-334-3310

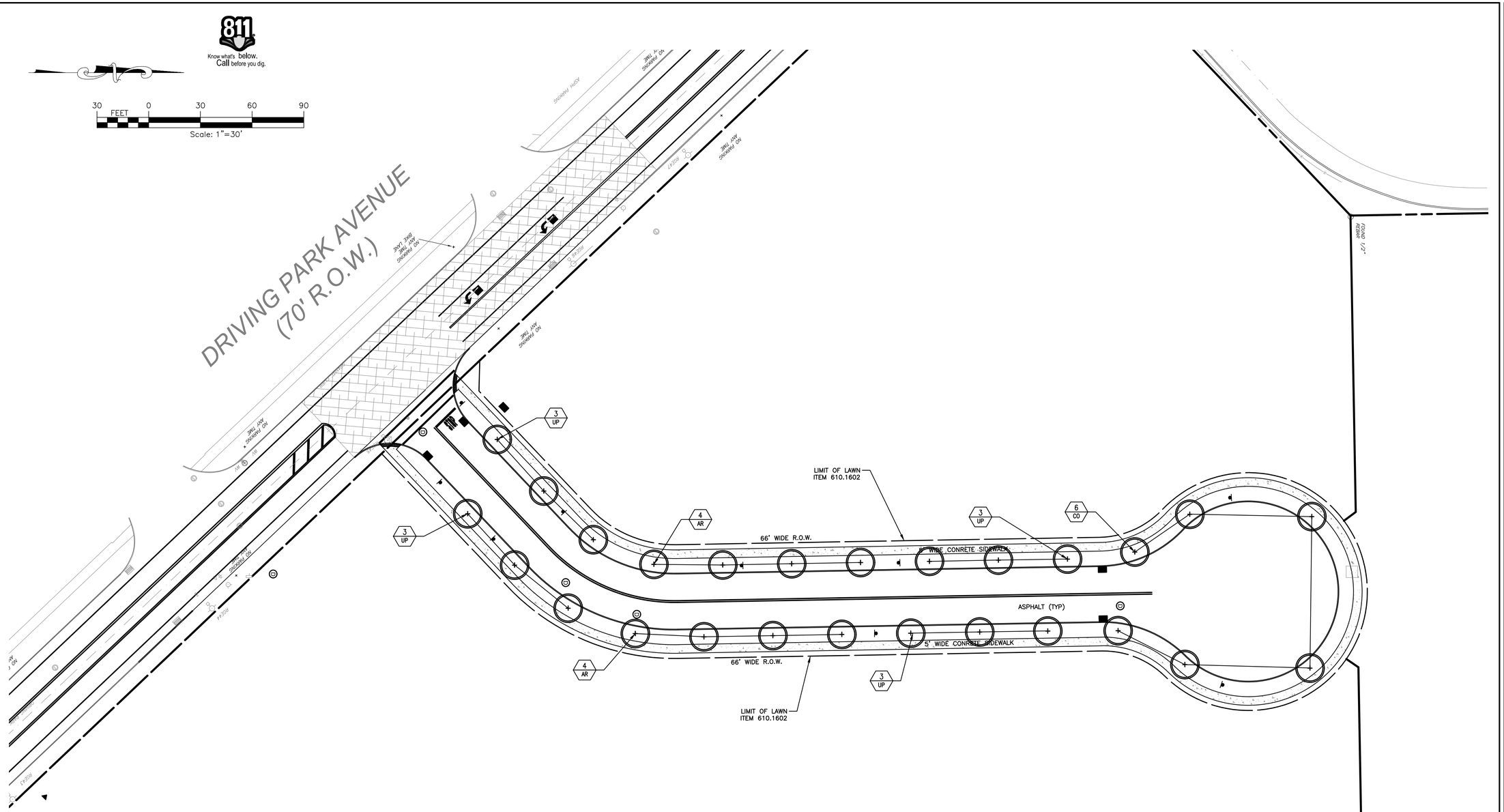
PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
GRADING AND EROSION CONTROL PLAN

DRAWING NO.
C-135

SHEET 9 OF 32

FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 Grading and Erosion Control Plan.dwg
DATE/TIME: 5/19/2014 12:38:14 PM
USER: Dan Yanosh



PLANT SCHEDULE

Key	Botanical Name	Common Name	Size	Root	Mature Height	Mature Spread	Qty.
Deciduous Trees							
AF	Acer x. freemanii 'Autumn Blaze'	Autumn Blaze maple	2.5" cal.	B&B	50' ht.	40' sp.	8
CO	Celtis Occidentalis 'Magnifica'	Magnifica Hackberry	2.5" cal.	B&B	50' ht.	40' sp.	6
UP	Ulmus x. Patriot	Patriot Elm	2.5" cal.	B&B	50' ht.	40' sp.	12

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FA PROJECT NO.
134024
PROJECT MANAGER
D. YANOSH
DRAWN BY
D. YANOSH
SCALE
AS SHOWN
ISSUE DATE
5/19/14

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WWW.FISHERASSOC.COM
135 Calkins Road, Rochester, NY 14623
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PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
LANDSCAPE PLAN

DRAWING NO.
C-140

FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 Landscape Plan.dwg
DATE/TIME: 5/19/2014 12:38:34 PM
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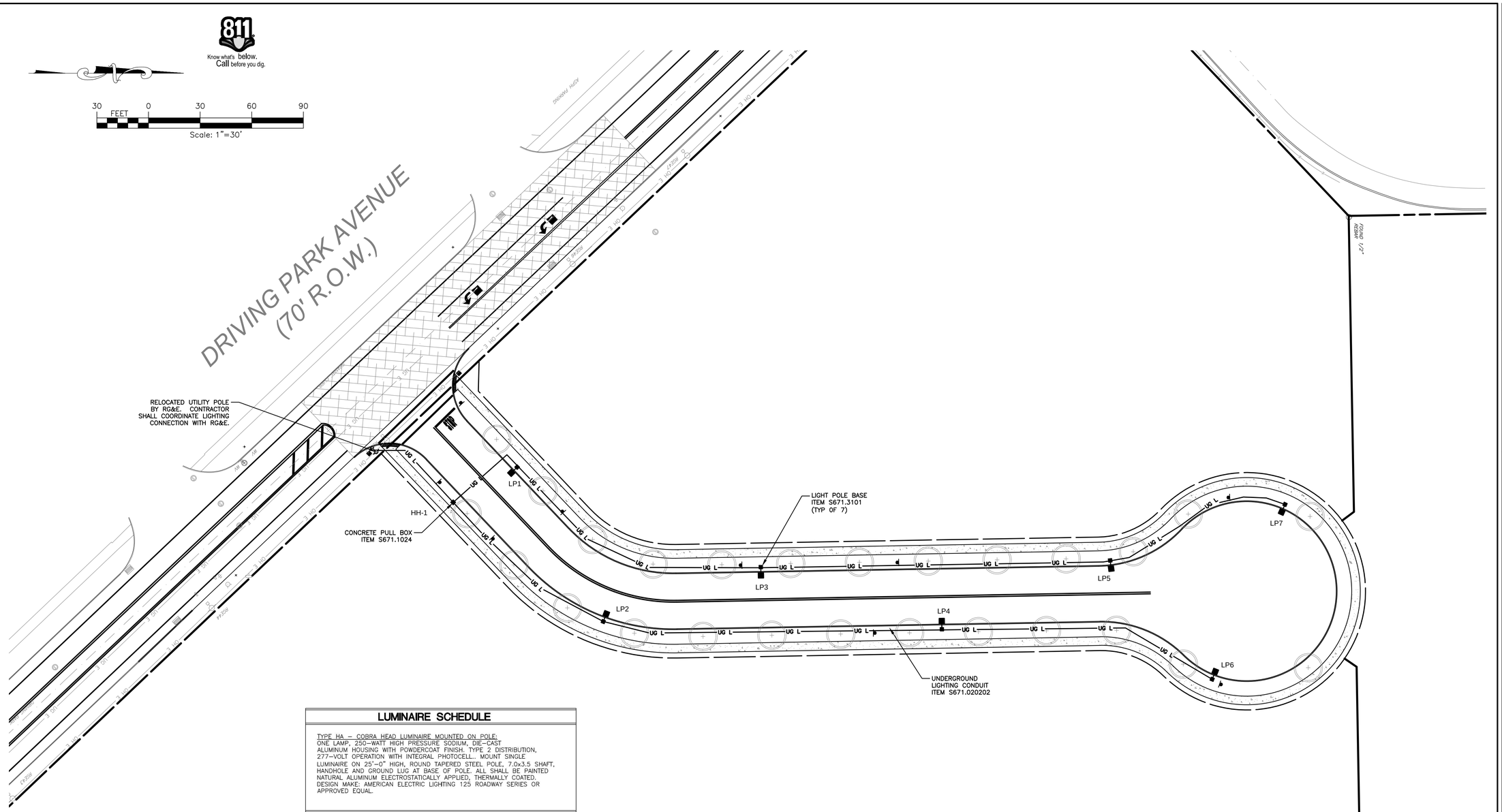

LUMINAIRE SCHEDULE

TYPE HA – COBRA HEAD LUMINAIRE MOUNTED ON POLE:
ONE LAMP, 250–WATT HIGH PRESSURE SODIUM, DIE–CAST ALUMINUM HOUSING WITH POWDERCOAT FINISH. TYPE 2 DISTRIBUTION, 277–VOLT OPERATION WITH INTEGRAL PHOTOCELL.. MOUNT SINGLE LUMINAIRE ON 25'–0" HIGH, ROUND TAPERED STEEL POLE, 7.0x3.5 SHAFT, HANDHOLE AND GROUND LUG AT BASE OF POLE. ALL SHALL BE PAINTED NATURAL ALUMINUM ELECTROSTATICALLY APPLIED, THERMALLY COATED. DESIGN MAKE: AMERICAN ELECTRIC LIGHTING 125 ROADWAY SERIES OR APPROVED EQUAL.

GENERAL NOTES:

A. PROVIDE ALL EXCAVATION, TRENCHING, CONCRETE WORK, PAVEMENT REPAIR, BACKFILL, AND GRADING REQUIRED FOR WORK SHOWN. PROVIDE FILL AND GRADE AS REQUIRED TO INSTALL EQUIPMENT LEVEL IN LOCATIONS SHOWN.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UNDERGROUND UTILITIES AND CIRCUITRY. MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITY LINES AND CIRCUITRY INTERRUPTED BY THE EXCAVATION WORK. CONTRACTOR SHALL REPAIR AT NO EXTRA COST TO THE PROJECT, ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES AS A RESULT OF WORK PERFORMED UNDER THIS DIVISION, PROVIDING WIRING, CONDUIT, MANHOLES, PULLBOXES, AND HANDHOLES REQUIRED TO REROUTE AND EXTEND THE EXISTING UTILITIES TO EQUIPMENT AND DEVICES REMAINING.

C. ALL HANDHOLES SHALL BE 24"W X 24"L X 12"D, UNLESS OTHERWISE NOTED. LOCATE HANDHOLES IN GRASSY AREAS.

D. LIGHT POLES AND FIXTURES TO BE FURNISHED AND INSTALLED BY THE CITY OF ROCHESTER.

FINAL REVIEW

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO. 134024
PROJECT MANAGER D. YANOSH
DRAWN BY D. YANOSH
SCALE AS SHOWN
ISSUE DATE 5/19/14

RAM-TECH ENGINEERS
Syracuse, NY • Philadelphia, PA • Rochester, NY
RAM-TECH Engineers of Buffalo, P.C.
phone: 716-833-7716
fax: 716-832-6073
www.ramtechengineers.com

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WWW.FISHERASSOC.COM
135 Caldwell Road, Rochester, NY 14623
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PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
LIGHTING PLAN

DRAWING NO.
C-145

FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 Lighting Plan.dwg
DATE/TIME: 5/19/2014 12:38:54 PM
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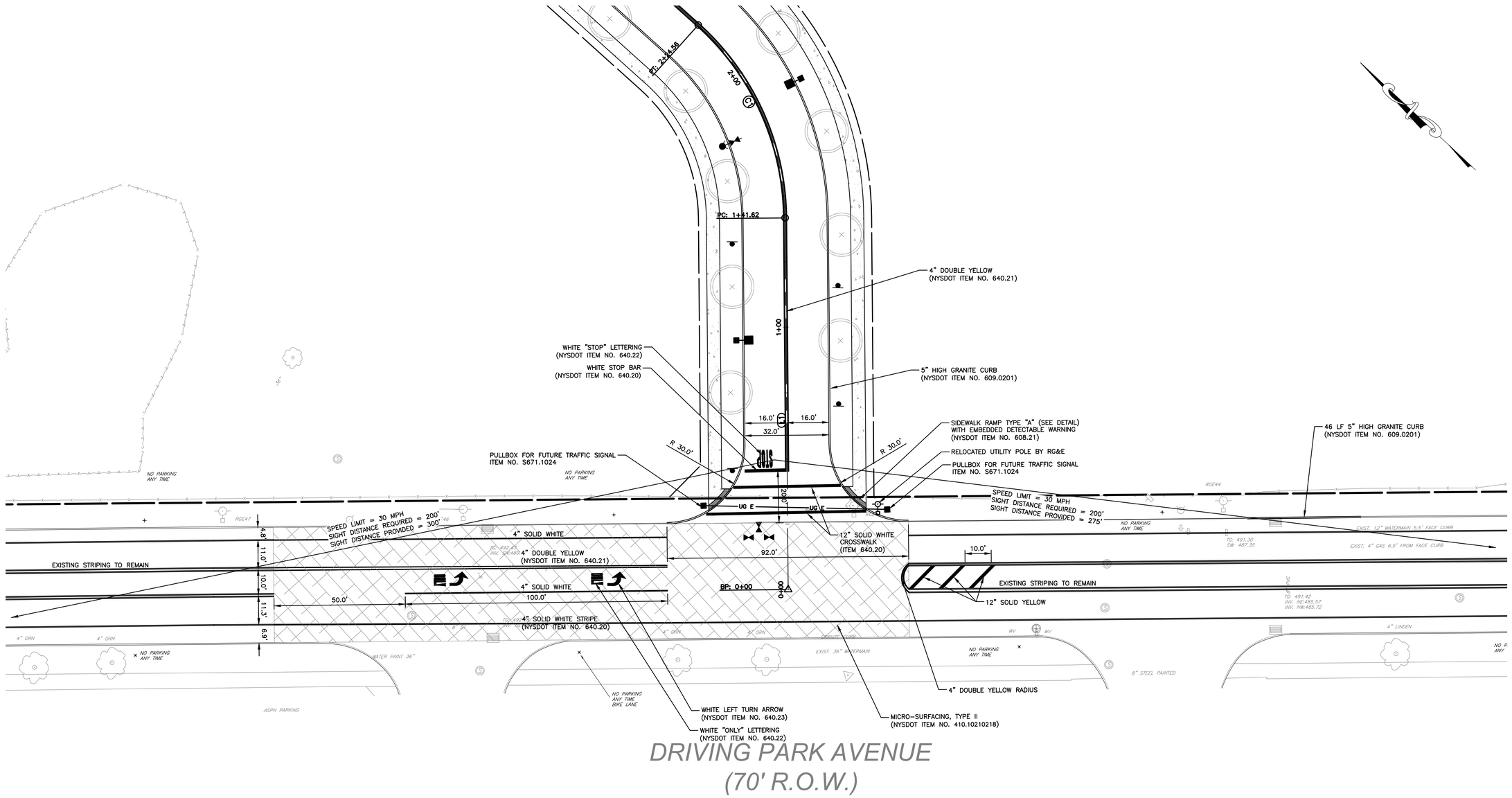

811 Know what's below. Call before you dig.

20 FEET 0 20 40 60

Scale: 1"=20'

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134024
PROJECT MANAGER
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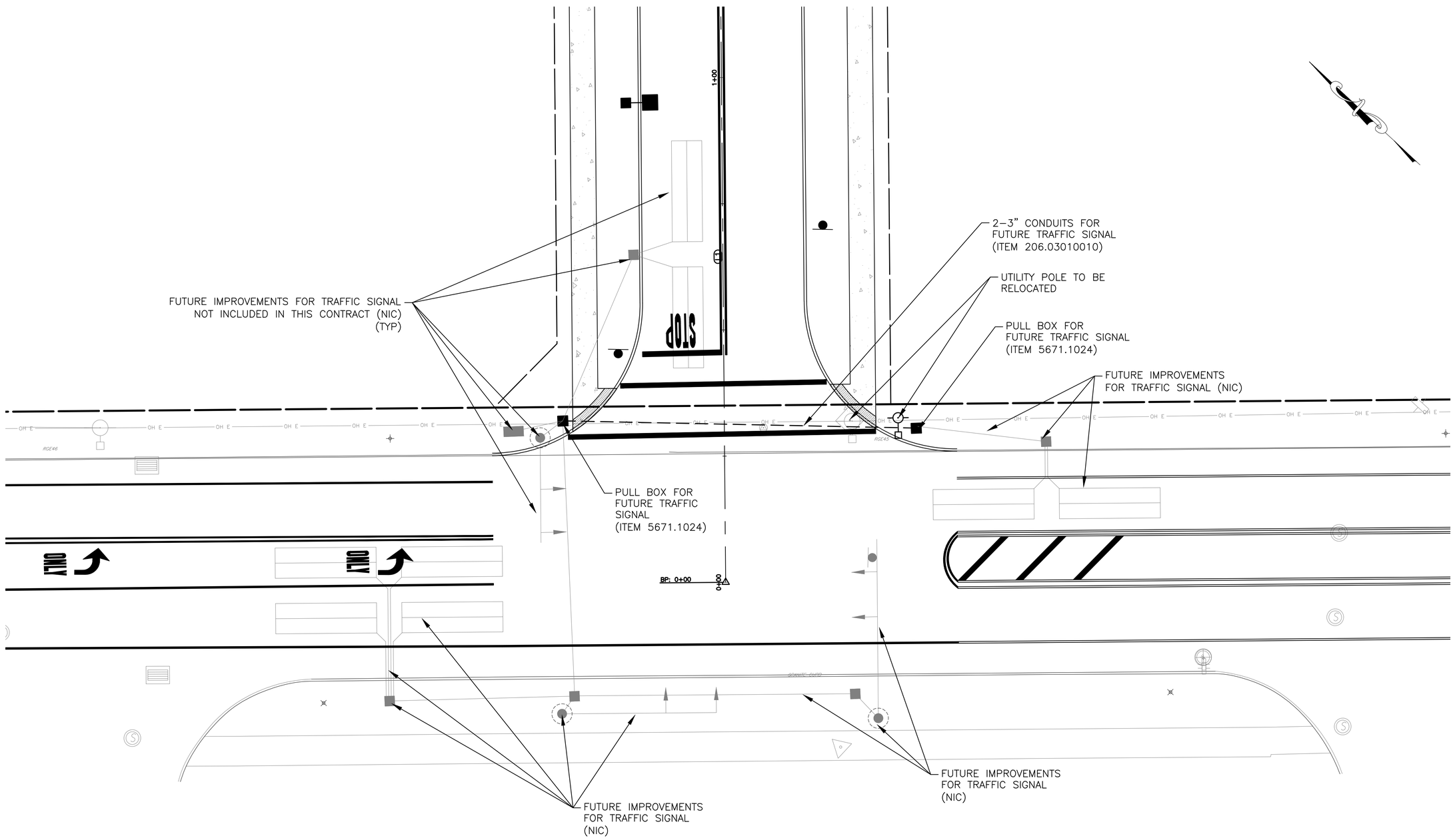
PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
INTERSECTION GENERAL PLAN

DRAWING NO.
C-150

SHEET 12 OF 32

FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 intersection general plan.dwg
DATE/TIME: 5/19/2014 12:39:10 PM
USER: Dan Yanosh



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10 FEET 0 10 20 30

Scale: 1"=10'

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REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
134024

PROJECT MANAGER
D. YANOSH

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D. YANOSH

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135 Calkins Road, Rochester, NY 14623
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1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
SIGNAL PLAN

DRAWING NO.
C-160

SHEET 13 OF 32

FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 signal plans.dwg
DATE/TIME: 5/19/2014 12:39:26 PM
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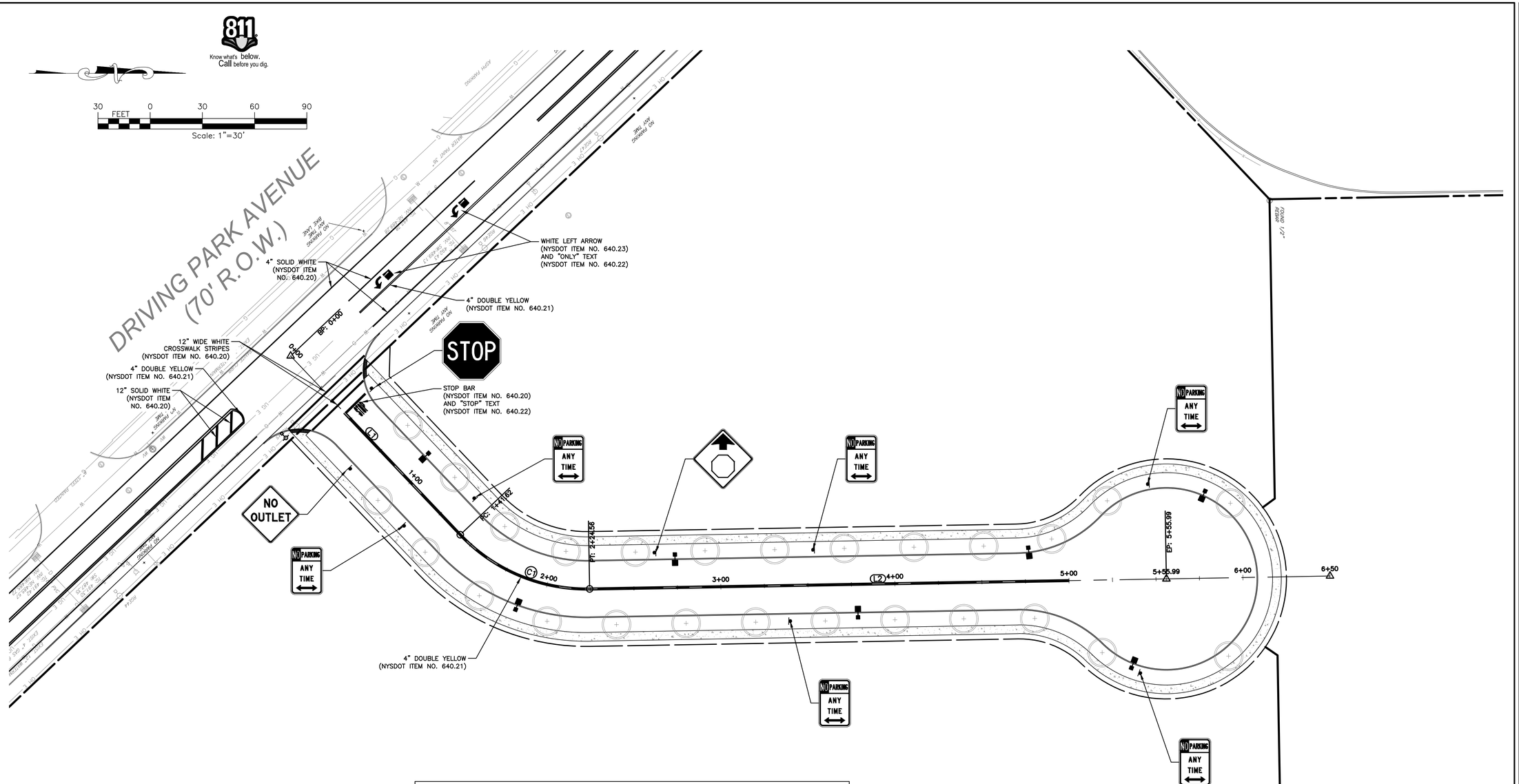

SIGN TABLE

SIGN FACE	MUTCD	LEGEND	SIZE	MOUNT	QTY.	POSTS
STOP	R1-1	STOP	30"x30"	POLE MTD.	1	2 PER SIGN
NO PARKING ANY TIME	R7-1	NO PARKING ANY TIME (SYM) ARROW	12"x18"	POLE MTD.	6	1 PER SIGN
NO OUTLET	W14-2	NO OUTLET	30"x30"	POLE MTD.	1	2 PER SIGN
	W3-1A	(SYM) STOP AHEAD	30"x30"	POLE MTD.	1	2 PER SIGN

NOTES:

1. SIGNS SHALL CONFORM TO NYSDOT ITEM NO. 645.51XX.
2. SIGN POSTS SHALL CONFORM TO NYSDOT ITEM NO. 645.81.

FINAL REVIEW

REV	DESCRIPTION	DATE	BY
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134024
PROJECT MANAGER
D. YANOSH
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D. YANOSH
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AS SHOWN
ISSUE DATE
5/19/14

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WWW.FISHERASSOC.COM
135 Culver Road, Rochester, NY 14623
Phone: 585-334-1310

PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
SIGN AND PAVEMENT MARKING PLAN

DRAWING NO.
C-165

FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 Sign and Pavement Marking Plan.dwg
DATE/TIME: 5/19/2014 12:39:46 PM
USER: Dan Yanosh

TREE LOCATIONS AND INSTALLATION DETAIL							
STATION	LT/RT OFFSET	QUANTITY	SPECIES	INSTALLATION	COMPOST	TOPSOIL	CU-SOIL
0+75.24	21.34 LT	1	ULMUS X. PATRIOT				
0+94.71	20.75 RT	1	ULMUS X. PATRIOT				
1+15.54	20.36 LT	1	ULMUS X. PATRIOT				
1+35.03	21.52 RT	1	ULMUS X. PATRIOT				
1+59.56	20.53 RT	1	ULMUS X. PATRIOT				
1+69.26	20.75 LT	1	ULMUS X. PATRIOT				
2+07.79	20.72 RT	1	ACER X. FREMANIII 'AUTUMN BLAZE'				
2+03.93	20.71 LT	1	ACER X. FREMANIII 'AUTUMN BLAZE'				
2+39.65	20.75 RT	1	ACER X. FREMANIII 'AUTUMN BLAZE'				
2+51.26	20.75 LT	1	ACER X. FREMANIII 'AUTUMN BLAZE'				
2+79.65	20.75 RT	1	ACER X. FREMANIII 'AUTUMN BLAZE'				
2+91.26	20.75 LT	1	ACER X. FREMANIII 'AUTUMN BLAZE'				
3+19.65	20.75 RT	1	ACER X. FREMANIII 'AUTUMN BLAZE'				
3+31.26	20.75 LT	1	ACER X. FREMANIII 'AUTUMN BLAZE'				
3+59.65	20.75 RT	1	ULMUS X. PATRIOT				
3+71.26	20.75 LT	1	ULMUS X. PATRIOT				
3+99.65	20.75 RT	1	ULMUS X. PATRIOT				
4+11.26	20.75 LT	1	ULMUS X. PATRIOT				
4+39.20	20.89 RT	1	ULMUS X. PATRIOT				
4+51.34	20.65 LT	1	ULMUS X. PATRIOT				
4+79.97	21.38 RT	1	CELTIS OCCIDENTALIS 'MAGNIFICA'				
4+90.47	24.08 LT	1	CELTIS OCCIDENTALIS 'MAGNIFICA'				
5+18.37	41.74 RT	1	CELTIS OCCIDENTALIS 'MAGNIFICA'				
5+22.77	45.43 LT	1	CELTIS OCCIDENTALIS 'MAGNIFICA'				
5+90.91	45.02 RT	1	CELTIS OCCIDENTALIS 'MAGNIFICA'				
5+93.50	42.81 LT	1	CELTIS OCCIDENTALIS 'MAGNIFICA'				

DRAINAGE STRUCTURE TABLE							
STRUCT. NO. ID.	STATION	OFFSET (FT)	TOP	INV	ITEM 604.500401 (FT)	ITEM 604.500402 (FT)	DESCRIPTION
EX MH 06	0+08.77	121.56 RT	491.85	484.15			EXISTING
DMH 05	0+42.39	126.72 RT	492.48	484.47			
DMH 04	0+42.39	7.00 RT	491.57	485.27			
DS 04C	0+54.34	14.34 RT	491.33	485.94			
DS 04B	0+54.34	14.34 LT	491.33	468.08			
DS 04A	0+54.34	37.02 LT	492.99	488.35			
DMH 03	1+61.26	9.18 RT	493.51	486.32			
DMH 02	2+02.80	9.70 RT	493.30	486.62			
DS 01A	4+71.46	14.33 LT	491.86	488.90			
DS 01B	4+71.50	14.33 RT	492.00	488.49			
DMH 01	4+81.46	7.12 RT	492.09	488.49			

DRAINAGE ITEM NUMBER SUMMARY TABLE	
ITEM NUMBER	DESCRIPTION
603.9812	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN PIPE, 12" DIAMETER
603.9818	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 18 INCH DIAMETER
603.9824	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM 24 INCH DIAMETER
604.500401	SPECIAL DRAINAGE STRUCTURE
604.500402	SPECIAL DRAINAGE STRUCTURE
	DRAINAGE MANHOLE
655.1103	WELDED FRAME AND RETICULINE GRADE 3

HYDRANT DISPOSITION TABLE				
CL STATION	OFFSET (FT)	SIDE	DISPOSITION	ITEM
1+76.14	19.0	LT		S917.01
3+99.48	19.0	LT		S917.01
6+08.95	15.0	LT		S917.01

WATER MAIN TABLE			
LOCATION	SIZE	MATERIAL	ITEM NUMBER
CONNECTION	12	DIP	S901.040112
CROSSING	12	DIP	S901.040112
ROAD	8	DIP	S901.040108

WATER SERVICE TABLE					
CL STATION	SIDE	HOUSE NO	EXISTING TYPE (SEE NOTE 1)	DISPOSITION	ITEM NO.
2+60.59	RT	LOT 2	N/A	N/A	S901.040106
3.58.07	LT	LOT 1	N/A	N/A	S901.040106
6+08.57	LT	LOT 3	N/A	N/A	S901.040106

ITEM 609.0101 – GRANITE CURB				
FROM STATION	TO STATION	SIDE	LENGTH	NOTES:
0+25.50	6+07.99	RT	658.00	5" REVEAL
0+25.50	6+07.99	LT	658.00	5" REVEAL
0+25.50	0+25.50	RT	44.00	1" REVEAL
0+25.50	0+25.50	LT	44.00	1" REVEAL
0+25.50	0+25.50	LT	46.00	1" REVEAL @ 175.3' OFFSET

STREET LIGHTING CONDUIT							
FROM STATION	TO STATION	SIDE	ITEM 670.2602 LENGTH (LF)	CONDUIT EXCAVATION ITEM S671.020202 (LF)	STREETING LIGHTING CIRCUIT NO.	PVC SCHEDULE	DISPOSITION
0+32.34	5+35.00	RT	533	533			
0+85.19	0+85.19	RT, LT	42	42			
0+95.19	5+79.11	LT	487	487			

ITEM C686.05 – SIGN SLEEVE		
STATION	SIDE	DISPOSITION
0+45.47	LT	STOP
0+70.59	RT	NO OUTLET
1+15.68	RT	NO PARKING
1+31.87	LT	NO PARKING
2+62.12	LT	STOP AHEAD
3+39.49	RT	NO PARKING
3+53.24	LT	NO PARKING
5+40.05	RT	NO PARKING
5+46.22	LT	NO PARKING

LIGHTING PULLBOXES				
STATION	SIDE	OFFSET	INSTALL 2'X2' SQUARE HH ITEM 670.30010199	NOTES
0+84.43	RT	22.00		

STREET LIGHTING						
STATION	SIDE	TYPE	WATTAGE	MOUNTING HEIGHT	FOUNDATION ITEM	NOTES
0+95.12	LT	RY COBRAHEAD	400	25	S671.3101	FOUNDATION, CONDUIT AND WIRING BY CONTRACTOR. POLE AND FIXTURE BY CITY OF ROCHESTER.
1+87.84	RT	RY COBRAHEAD	400	25	S671.3101	
2+73.91	LT	RY COBRAHEAD	400	25	S671.3101	
3+78.47	RT	RY COBRAHEAD	400	25	S671.3101	
4+76.96	LT	RY COBRAHEAD	400	25	S671.3101	
5+35.00	RT	RY COBRAHEAD	400	25	S671.3101	
5+79.11	LT	RY COBRAHEAD	400	25	S671.3101	

ITEM 608.0101 – CONCRETE SIDEWALK					
STATION	TO	STATION	WIDTH	SIDE	NOTES
0+30.04		6+19.49	5	RT	
0+30.04		9+19.49	5	LT	

SIDEWALK RAMP LOCATION TABLE				
STATION	SIDE	TYPE	ITEM 608.21 (SF)	NOTES
0+30.04	RT	A	25	
0+30.04	LT	A	25	

UTILITY POLE RELOCATION TABLE					
POLE NO.	STATION	OFFSET	SIDE	OWNER	REASON FOR RELOCATION
RGE45	0+31.73	25.32	LT	RG&E	PROPOSED ROADWAY CONFLICT

TABLE OF MAINTENANCE JURISDICTION								
PART NO.	FEATURE	LIMITS	FEATURE TO BE MAINTAINED	℄ MI	LANE MI	OWNING AGENCY	MAINTAINING AGENCY	AUTHORITY FOR MAINTENANCE
MAINLINE								
	SEWER					MONROE COUNTY PURE WATERS	MONROE COUNTY PURE WATERS	
	WATER					CITY OF ROCHESTER WATER BUREAU	CITY OF ROCHESTER WATER BUREAU	
SNOW AND ICE REMOVAL								
	ROADWAY					CITY OF ROCHESTER	CITY OF ROCHESTER	
	SIDEWALK					CITY OF ROCHESTER	CITY OF ROCHESTER	
TRAFFIC SIGNAL								
	NOT APPLICABLE							
SIDEWALK								
	SIDEWALK					CITY OF ROCHESTER	CITY OF ROCHESTER	
LIGHTING								
	LIGHT POLES					CITY OF ROCHESTER	CITY OF ROCHESTER	

ITEM 605.1702 – CPP UNDERDRAIN TUBING, 6" DIAMETER		
STATION TO STATION	SIDE	LENGTH
0+25.50 TO 6+07.99	RT	658.00
0+25.50 TO 6+07.99	LT	658.00

FINAL REVIEW

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FA PROJECT NO.
134024
PROJECT MANAGER
D. YANOSH
DRAWN BY
D. YANOSH
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ISSUE DATE
5/19/14

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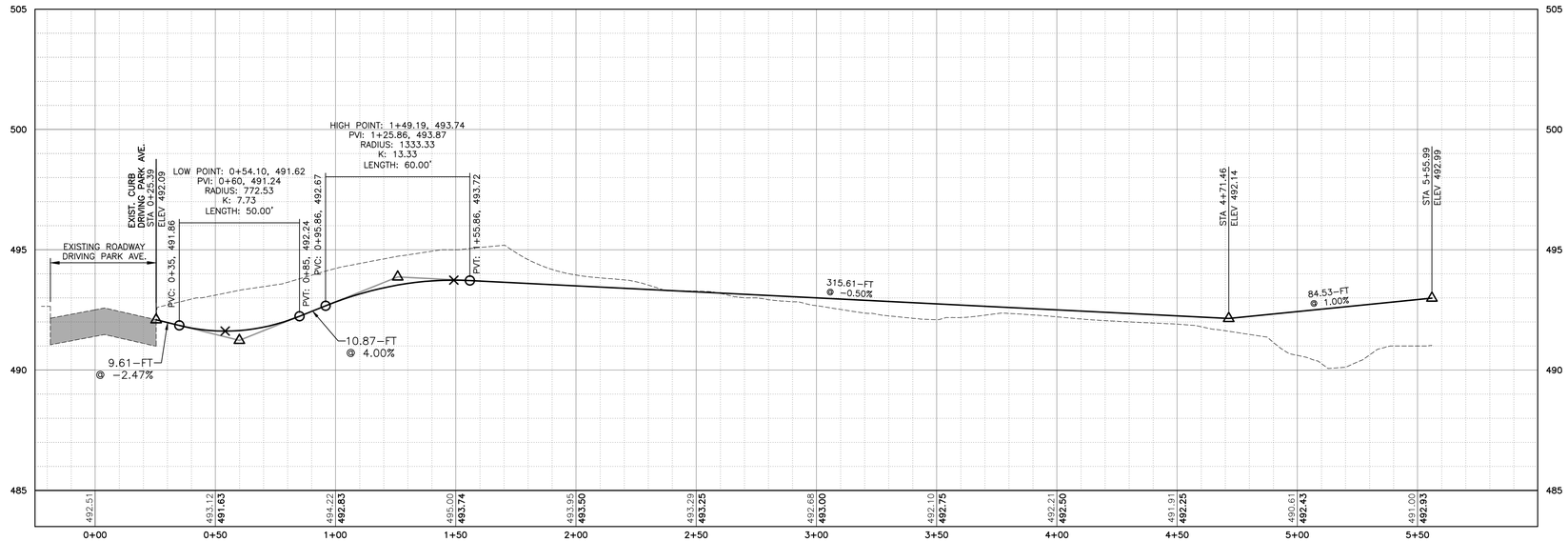
TITLE OF DRAWING
CONSTRUCTION TABLES

DRAWING NO.
C-170

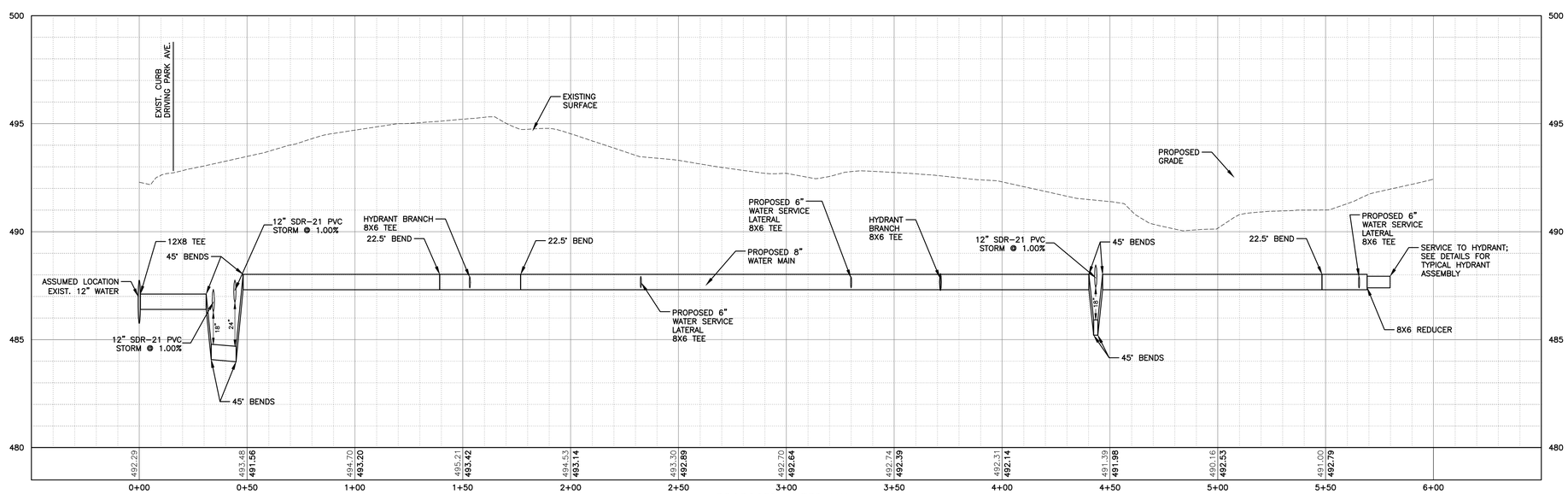
FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 Construction Tables.dwg
DATE/TIME: 5/19/2014 12:39:58 PM
USER: Don Yanosh



CENTERLINE OF ROAD PROFILE
HORIZ: 1"=30'
VERT: 1"=3'

NOTES:

1. LOCATIONS AND INVERTS OF EXISTING COMBINED SEWER NETWORK ARE BASED ON MAPPING PROVIDED BY LABELLA ASSOCIATES, P.C.
2. LOCATION OF EXISTING 12" WATERMAIN IS BASED ON MAPPING PROVIDED BY LABELLA ASSOCIATES, P.C. AND UPDATED BASED ON WATERMAIN RECORD MAPPING PROVIDED BY THE CITY OF ROCHESTER WATER BUREAU. WATERMAIN DEPTH IS ASSUMED TO BE 5 FEET BELOW EXISTING GRADE.
3. INVERTS OF PROPOSED DRAINAGE PIPES ARE TO THE CENTERLINE OF THE DRAINAGE STRUCTURE.



PROPOSED WATER MAIN
HORIZ: 1"=30'
VERT: 1"=3'

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1 0 1
GRAPHIC SCALE (INCHES)

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134024
PROJECT MANAGER
D. YANOSH
DRAWN BY
D. YANOSH
SCALE
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ISSUE DATE
5/19/14

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TITLE OF DRAWING
ROAD AND UTILITY PROFILES - 1

DRAWING NO.
C-175

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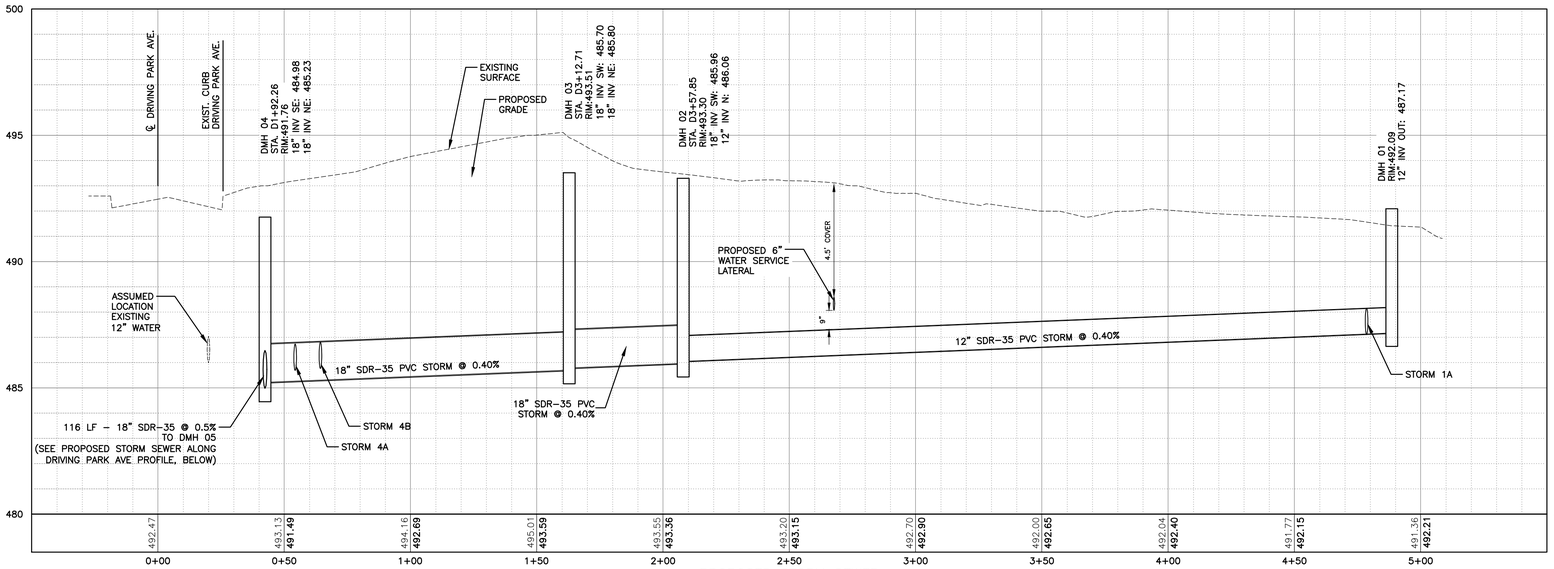
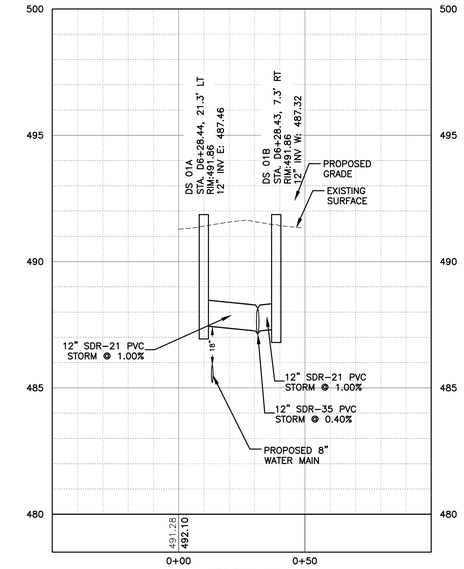
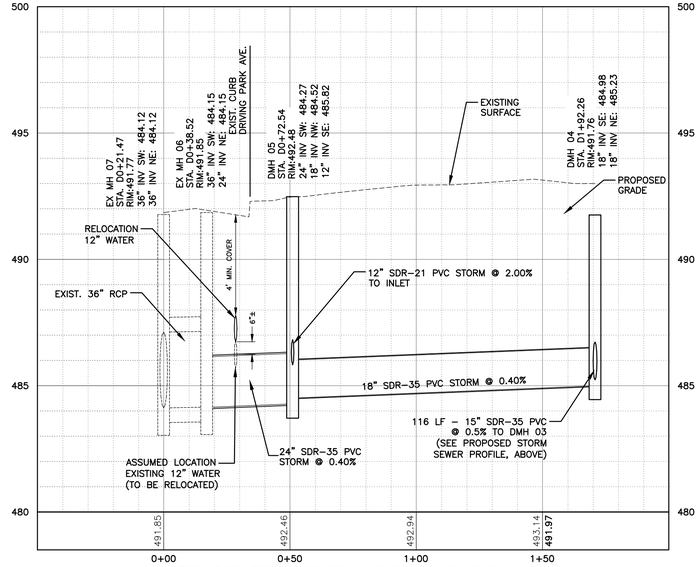
USER: Don Yanosh



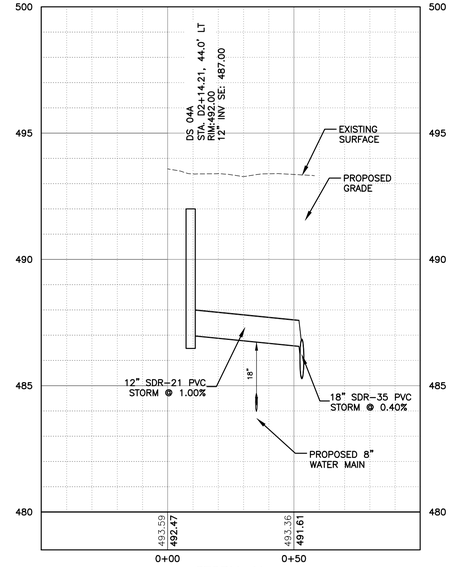
PROPOSED STORM SEWER
HORIZ: 1"=30'
VERT: 1"=3'



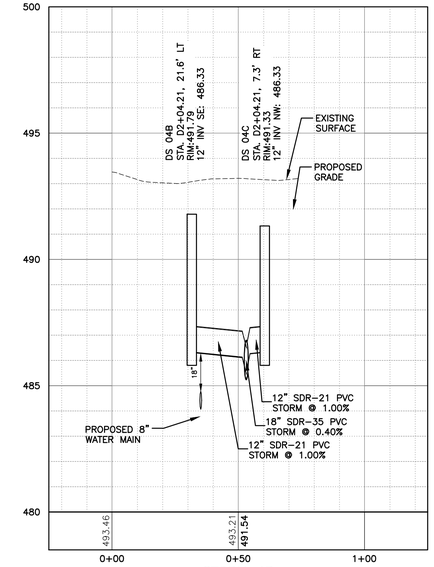
STORM 1A
HORIZ: 1"=30'
VERT: 1"=3'



PROPOSED STORM SEWER ALONG DRIVING PARK AVE
HORIZ: 1"=30'
VERT: 1"=3'



STORM 4A
HORIZ: 1"=30'
VERT: 1"=3'



STORM 4B
HORIZ: 1"=30'
VERT: 1"=3'

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NOTES:

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3. INVERTS OF PROPOSED DRAINAGE PIPES ARE TO THE CENTERLINE OF THE DRAINAGE STRUCTURE.

1 0 1
GRAPHIC SCALE (INCHES)

FINAL REVIEW

REV	DESCRIPTION	DATE	BY
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DRAWN BY D. YANOSH
SCALE AS SHOWN
ISSUE DATE 5/19/14

PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
ROAD AND UTILITY PROFILES - 2

DRAWING NO.
C-176

FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 Profiles.dwg
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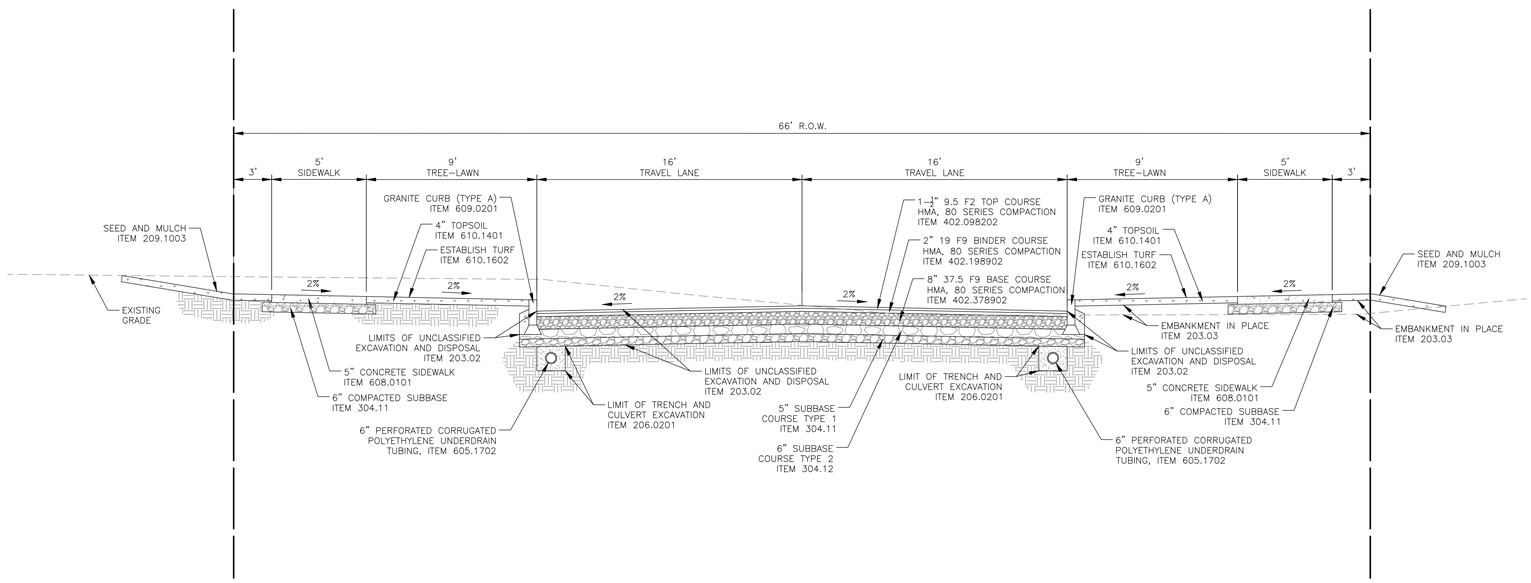

4 FEET 0 4 8 12

Scale: 1"=4'

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FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 Sections.dwg
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DRAWN BY
D. YANOSH

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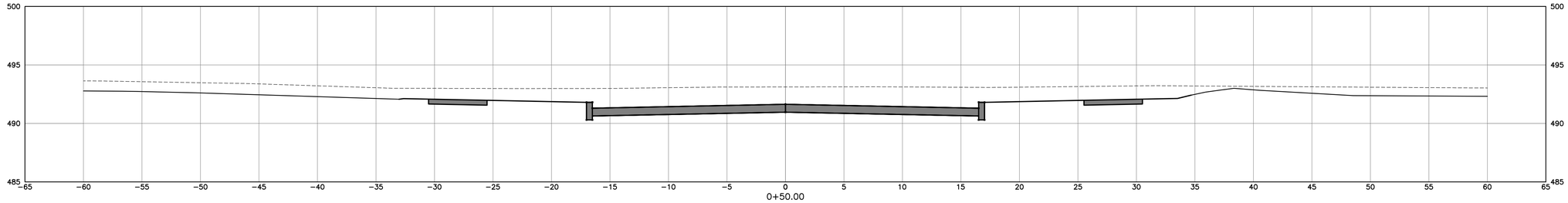
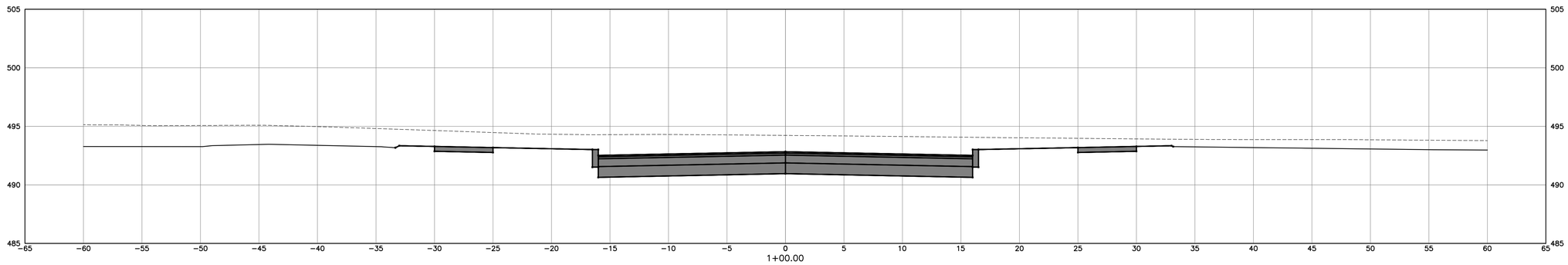
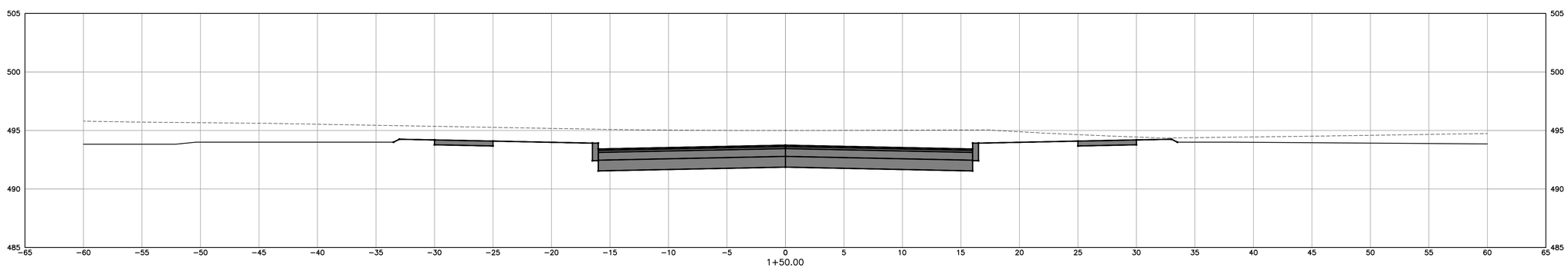
TITLE OF DRAWING
TYPICAL ROADWAY CROSS SECTION

DRAWING NO.
C-180

SHEET 18 OF 32







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TITLE OF DRAWING
ROADWAY CROSS SECTIONS -1

DRAWING NO.
C-185

SHEET 19 OF 32

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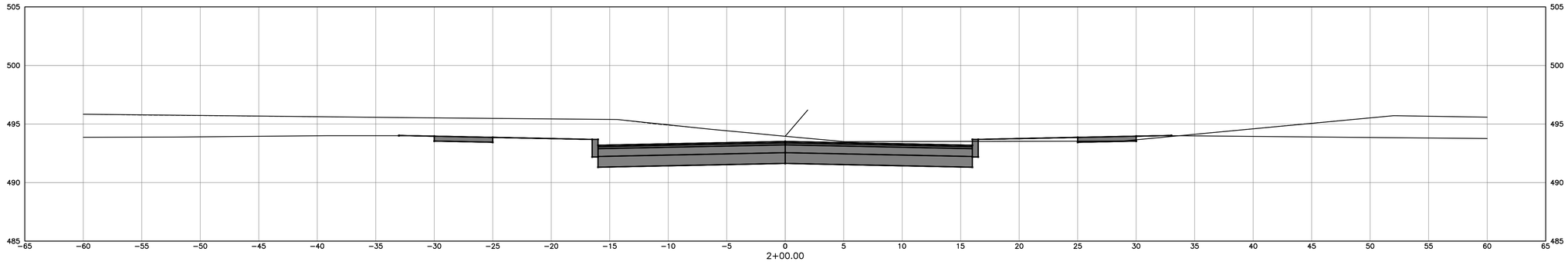

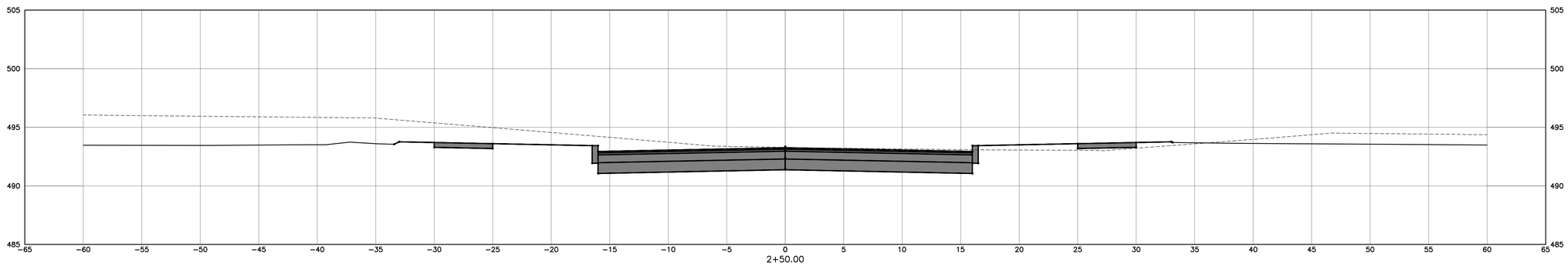

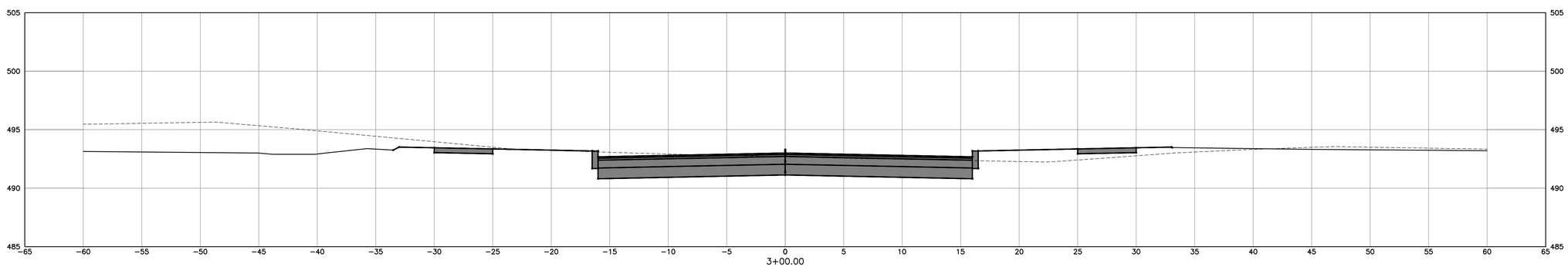

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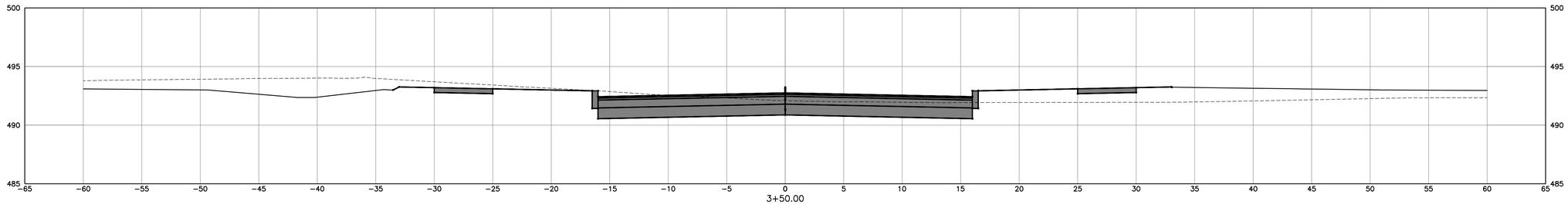
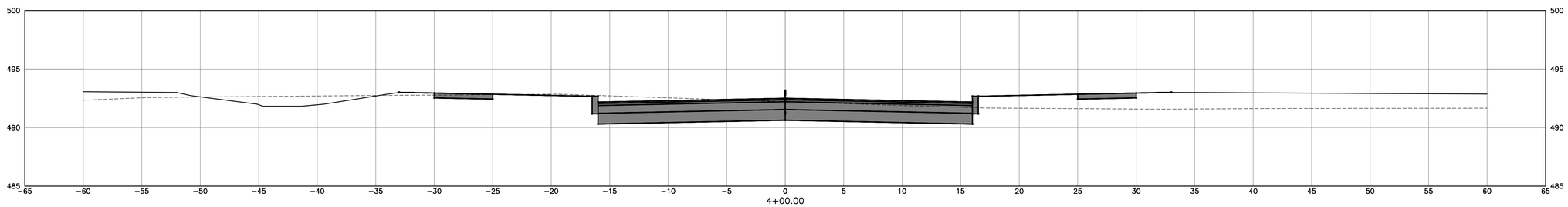
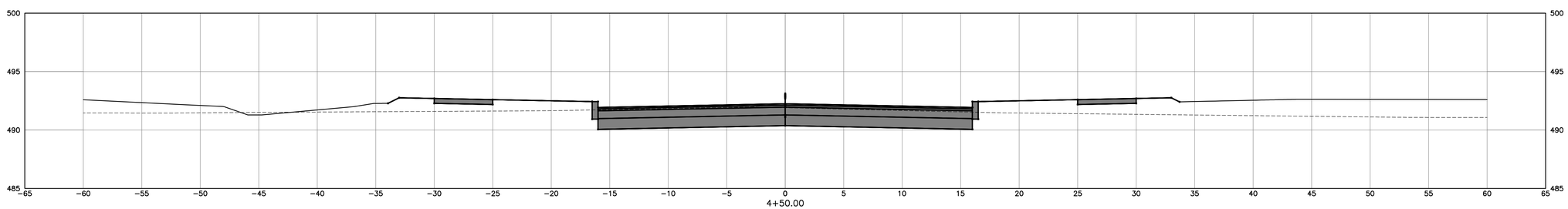
TITLE OF DRAWING
ROADWAY CROSS SECTOINS - 2

DRAWING NO.
C-190

SHEET 20 OF 32







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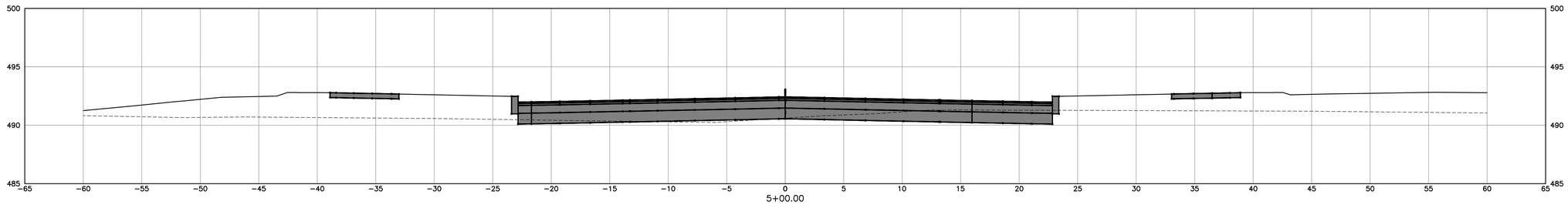
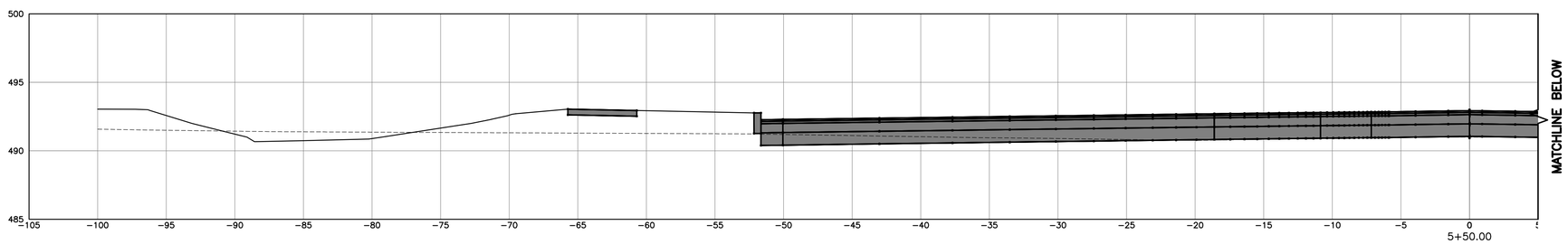
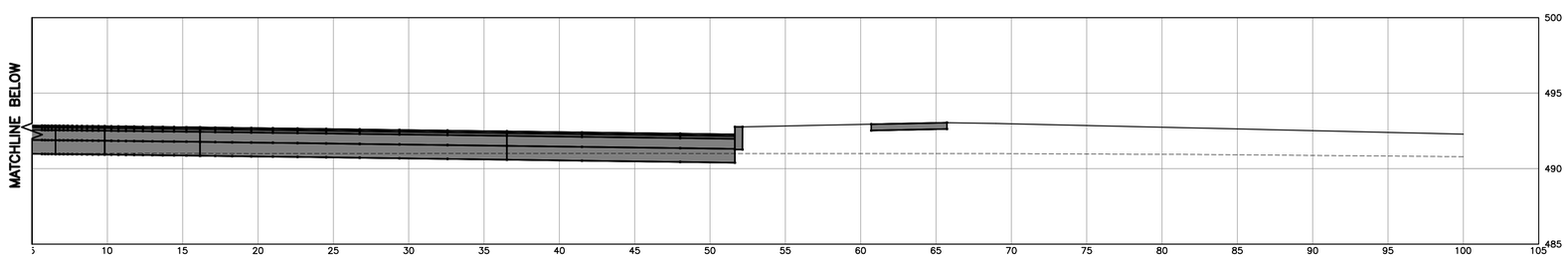
TITLE OF DRAWING
ROADWAY CROSS SECTIONS - 3

DRAWING NO.
C-195

SHEET 21 OF 32







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REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
134024
PROJECT MANAGER
D. YANOSH
DRAWN BY
D. YANOSH
SCALE
AS SHOWN
ISSUE DATE
5/19/14

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WWW.FISHERASSOC.COM
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PROJECT
PHOTECH SITE DEVELOPMENT
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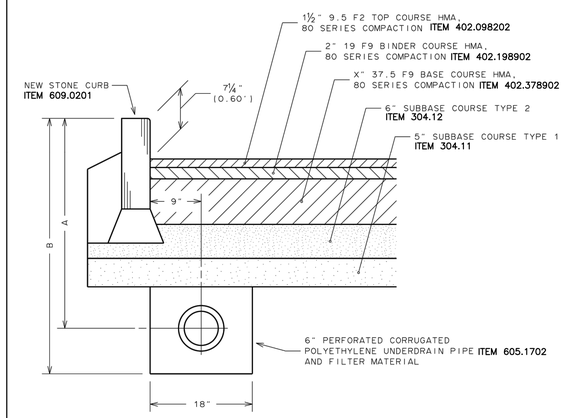
ROCHESTER, NEW YORK

TITLE OF DRAWING
ROADWAY CROSS SECTIONS - 4

DRAWING NO.
C-200



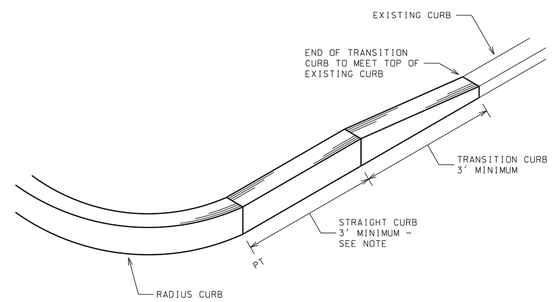
PAVEMENT SECTION	X" THICKNESS BASE COURSE	A (℄ UNDERDRAIN PIPE)	B (BOTTOM UNDERDRAIN TRENCH)
LIGHT-DUTY	0"	2'-6"	3'-2"
MEDIUM-DUTY	3"	2'-9"	3'-5"
MODIFIED	6"	2'-11"	3'-7"
HEAVY-DUTY	8"	3'-1"	3'-9"

NOTE:
ITEM 407.0102
TACK COAT IS TO BE APPLIED BETWEEN ALL LIFTS OF HMA PAVEMENT COURSES AND ON FACE OF CURB BETWEEN CURB AND ASPHALT PAVEMENT.

CITY OF ROCHESTER

ASPHALT PAVEMENT SECTION WITH CURB

ISSUED 9-2-91 STANDARD
REVISED 7-31-12 DWG.NO.R400-1

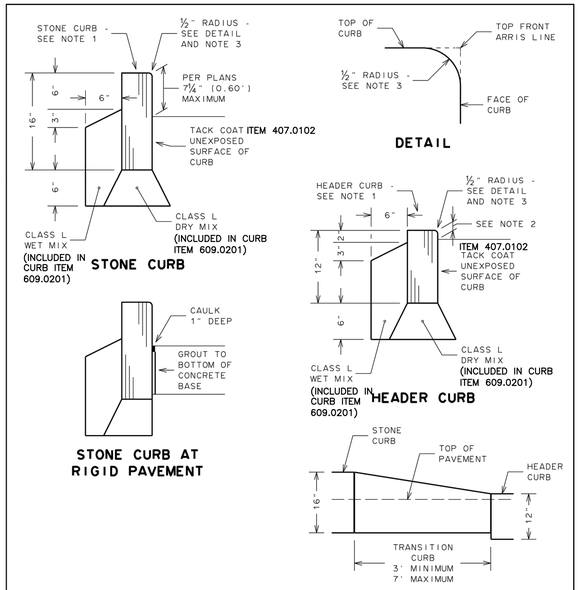


NOTE:
LENGTH OF STRAIGHT CURB WILL BE AS REQUIRED IN CONTRACT DOCUMENTS. WITH 3 FEET MINIMUM.

CITY OF ROCHESTER

NEW CURB TRANSITION TO EXISTING CURB

ISSUED 9-2-91 STANDARD
REVISED 12-30-11 DWG.NO.R609-7



NOTES:

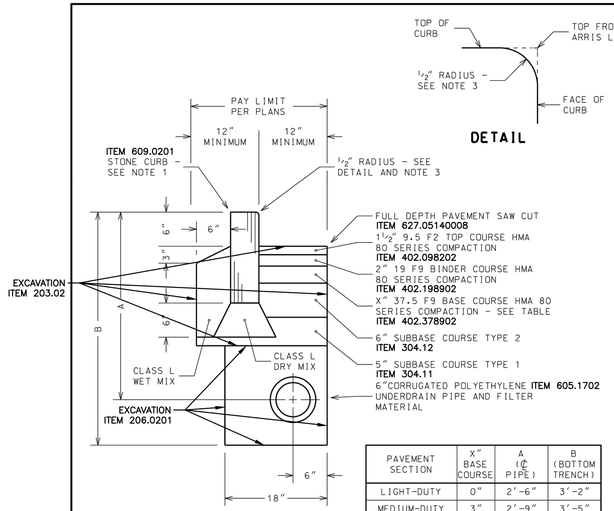
1. CURB THICKNESS IS TO BE 5 INCHES, OR AS REQUIRED IN CONTRACT DOCUMENTS.
2. CURB REVEAL FOR HEADER CURB AT DRIVEWAY APRONS IS 1½ INCHES, AT SIDEWALK ACCESS RAMPS 0 INCHES.
3. HEADER CURB USED FOR SIDEWALK ACCESS RAMPS IS NOT TO BE ROUNDED.

CITY OF ROCHESTER

STONE CURB

ITEM 609.0201

ISSUED 9-2-91 STANDARD
REVISED 12-30-11 DWG.NO.R609-1



PAVEMENT SECTION	X" BASE COURSE	A (℄ PIPE)	B (BOTTOM TRENCH)
LIGHT-DUTY	0"	2'-6"	3'-2"
MEDIUM-DUTY	3"	2'-9"	3'-5"
MODIFIED	6"	2'-11"	3'-7"
HEAVY-DUTY	8"	3'-1"	3'-9"

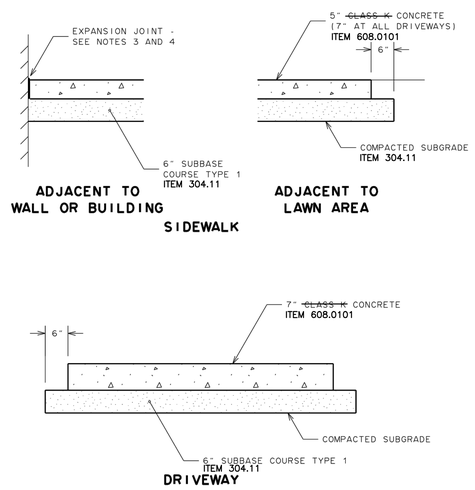
NOTES:

1. CURB THICKNESS IS TO BE 5 INCHES. OR AS REQUIRED IN CONTRACT DOCUMENTS.
2. CURB REVEAL FOR HEADER CURB AT DRIVEWAY APRONS IS 1½INCHES. AT SIDEWALK ACCESS RAMPS 0 INCHES.
3. HEADER CURB USED FOR SIDEWALK ACCESS RAMPS IS NOT TO BE ROUNDED.
4. TACK COAT TO BE APPLIED BETWEEN ALL LIFTS OF HMA COURSES.
5. PAVEMENT SEAMS TO BE SEALED WITH BITUMINOUS SEALER IN ACCORDANCE WITH NYSDOT MATERIAL DESIGNATION 702-0700.

CITY OF ROCHESTER

STONE CURB REPLACEMENT - ASPHALT BASE

ISSUED 12-30-11 NON-STANDARD
REVISED DWG.NO.S609-16



NOTES:

1. MAXIMUM CROSS-SLOPE OF CONCRETE SIDEWALK IS 1:50.
2. ENTIRE AREA OF SIDEWALK ACCESS RAMP AND LANDING PAD IS TO BE 7 INCH THICK CONCRETE.
3. PROVIDE ½ INCH WIDE EXPANSION JOINT BETWEEN NEW CONCRETE CONSTRUCTION AND BACK EDGE CURB, CONCRETE GUTTER, OTHER PAVED AREAS, BUILDINGS, WALLS, POLE BASES AND OTHER STRUCTURES/APPURTENANCES.
4. FOR EXPANSION JOINT USE ½ INCH WIDE PREMOULDED EXPANSION JOINT MATERIAL, SEALED WITH ½ INCH WIDE CAULKING SEALANT ⅜ INCH DEEP.
5. SEE DETAILS S608-25 FOR HEAVY-DUTY COMMERCIAL DRIVEWAY PAVEMENT SECTION.

CITY OF ROCHESTER

CONCRETE SIDEWALK AND DRIVEWAY

ISSUED 9-2-91 STANDARD
REVISED 5-1-13 DWG.NO.R608-6

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FA PROJECT NO. 134024
PROJECT MANAGER D. YANOSH
DRAWN BY D. YANOSH
SCALE AS SHOWN
ISSUE DATE 5/19/14

PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
DETAILS - 1

DRAWING NO.
C-500

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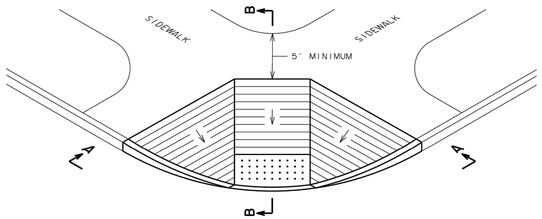
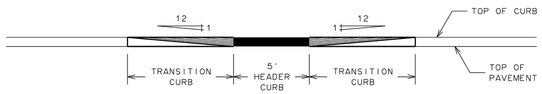
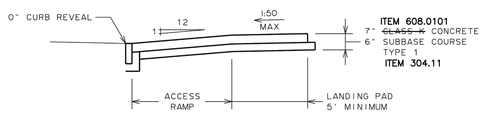
DATE/TIME: 5/19/2014 12:42:17 PM
USER: Don Yanosh



ACCESS RAMP TYPE A ISOMETRIC



VIEW A-A



SECTION B-B

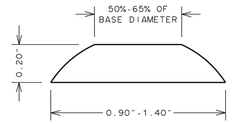
NOTES:

1. 1:12 IS MAXIMUM SLOPE OF ACCESS RAMP AND SIDE FLARES.
2. SURFACE OF ACCESS RAMP IS TO BE STABLE, FIRM AND SLIP-RESISTANT. TEXTURE SURFACE WITH COARSE BROOM RUNNING TRANSVERSE TO SLOPE OF ACCESS RAMP.
3. ENTIRE AREA OF ACCESS RAMP AND LANDING PAD IS TO BE 7 INCH THICK CONCRETE.
4. SEE DETAIL S608-28 FOR DETECTABLE WARNING SYSTEM. ITEM 608.21

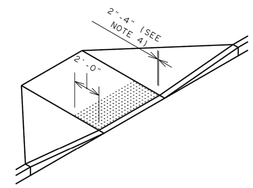
CITY OF ROCHESTER

SIDEWALK ACCESS RAMP TYPE A

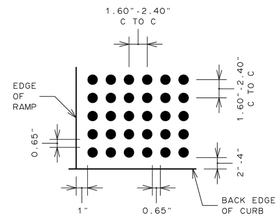
ISSUED	9-2-91	STANDARD
REVISED	5-1-13	DWG.NO.R608-1



DOME SECTION



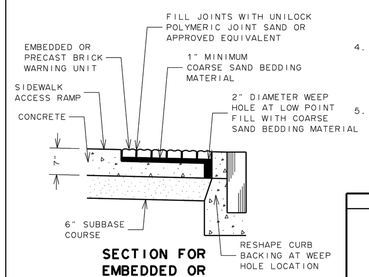
ISOMETRIC



DOME SPACING

NOTES:

1. QUANTITY OF TRUNCATED DOMES SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY, TO DEPICT REQUIRED SQUARE GRID PATTERN.
2. TRUNCATED DOMES ARE TO BE ALIGNED IN PARALLEL SQUARE GRID PATTERN IN PREDOMINANT DIRECTION OF TRAVEL.
3. DETECTABLE WARNING SYSTEM FIELD IS TO BE 2 FEET DEEP, AND IS TO EXTEND ACROSS FULL WIDTH OF SIDEWALK ACCESS RAMP, BUT NOT UP SIDE FLARES.
4. DETECTABLE WARNING SYSTEM FIELD IS TO BE LOCATED SUCH THAT OUTER EDGE OF WARNING FIELD NEAREST TO STREET IS 2 TO 4 INCHES OFF BACK EDGE OF CURB.
5. ENTIRE DETECTABLE WARNING SYSTEM FIELD INCLUDING TRUNCATED DOMES, IS TO BE DARK GRAY IN COLOR, PER MUNSELL BOOK NOTATION 10BG 3/1, FEDERAL STANDARD 595B NUMBER 36081 OR DARKER, OR APPROVED EQUIVALENT.

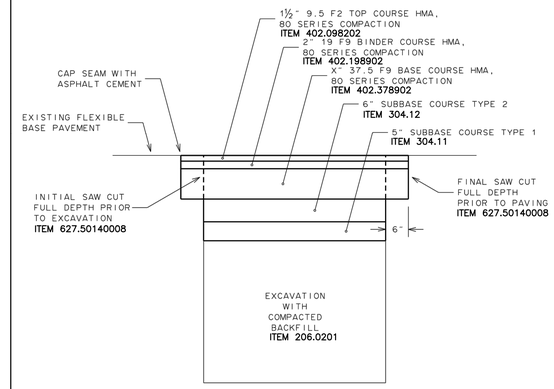


SECTION FOR EMBEDDED OR PRECAST BRICK WARNING UNIT

CITY OF ROCHESTER

DETECTABLE WARNING SYSTEM AT CURB
ITEM 608.21

ISSUED	1-23-03	NON-STANDARD
REVISED	5-1-13	DWG.NO.S608-28



NOTES:

1. FINAL SAW CUT IS TO BE FULL DEPTH TO OBTAIN STRAIGHT AND NEAT EDGE FOR PAVING. SAW CUT IS TO BE MADE AFTER TRENCH IS BACKFILLED.
2. BOTTOM OF ASPHALT BASE COURSE IS TO BE AT OR BELOW BOTTOM OF EXISTING ASPHALT PAVEMENT SECTION TO PROVIDE FOR REQUIRED MINIMUM THICKNESS OF ASPHALT COURSES. MINIMUM THICKNESS OF ASPHALT BASE COURSE IS:
   HEAVY-DUTY PAVEMENT - 8 INCHES
   MEDIUM-DUTY PAVEMENT - 3 INCHES
   LIGHT-DUTY PAVEMENT - 0 INCHES
3. TACK COAT IS TO BE APPLIED BETWEEN ALL LIFTS OF HMA PAVEMENT COURSES.
4. SEAMS BETWEEN EXISTING AND NEW PAVEMENT ARE TO BE SEALED WITH ASPHALT CEMENT 702-0700 IN ACCORDANCE WITH NYSDOT SECTION 702 BITUMINOUS MATERIALS.

CITY OF ROCHESTER

TRENCH RESTORATION ASPHALT BASE

ISSUED	9-2-91	STANDARD
REVISED	7-31-12	DWG.NO.R206-1

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PROJECT MANAGER D. YANOSH
DRAWN BY D. YANOSH
SCALE AS SHOWN
ISSUE DATE 5/19/14

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ROCHESTER, NEW YORK

TITLE OF DRAWING
DETAILS - 2

DRAWING NO.
C-505

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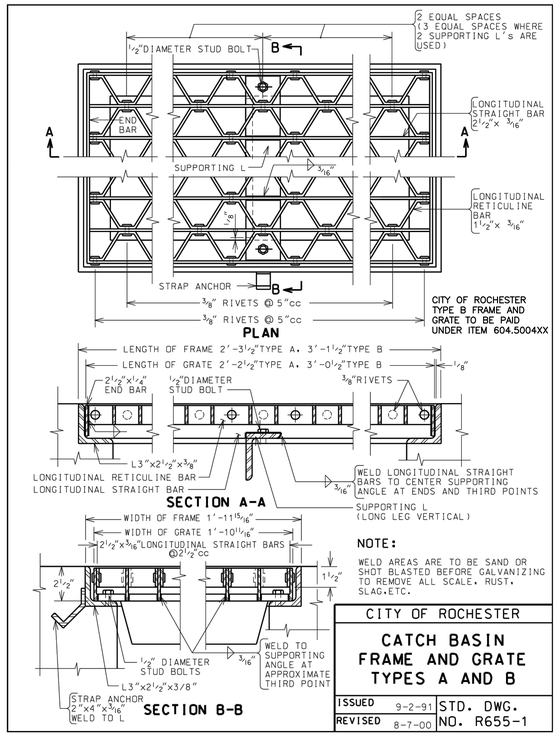
USER: Don Yanosh



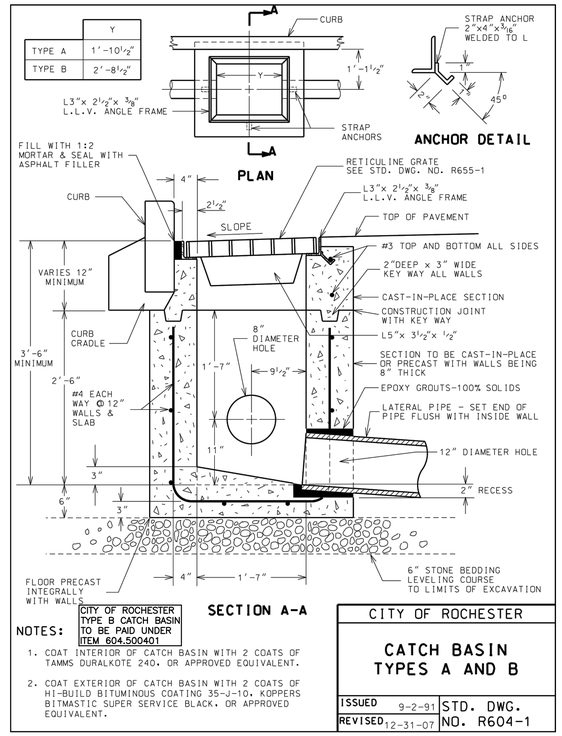
NOTE:

WELD AREAS ARE TO BE SAND OR SHOT BLASTED BEFORE GALVANIZING TO REMOVE ALL SCALE, RUST, SLAG,ETC.

CITY OF ROCHESTER

CATCH BASIN FRAME AND GRATE TYPES A AND B

ISSUED	9-2-91	STD. DWG.
REVISED	8-7-00	NO. R655-1



NOTES:

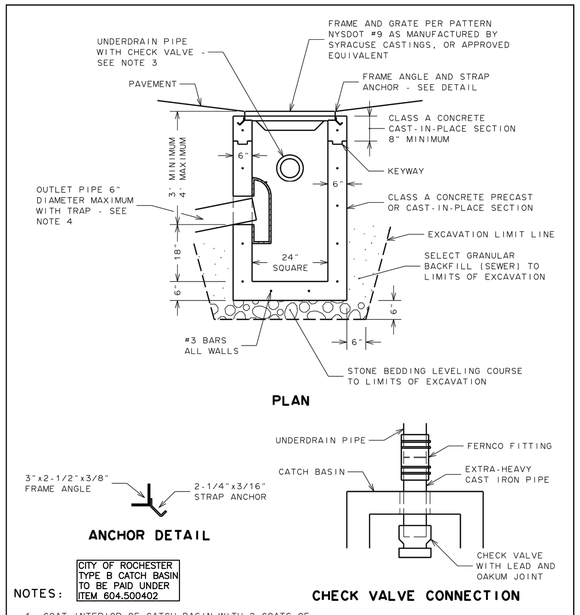
CITY OF ROCHESTER TYPE B CATCH BASIN TO BE PAID UNDER ITEM 604.500401

1. COAT INTERIOR OF CATCH BASIN WITH 2 COATS OF TAMMS DURALKOTE 240. OR APPROVED EQUIVALENT.
2. COAT EXTERIOR OF CATCH BASIN WITH 2 COATS OF HI-BUILD BITUMINOUS COATING 35-J-10. KOPPERS BITMASTIC SUPER SERVICE BLACK. OR APPROVED EQUIVALENT.

CITY OF ROCHESTER

CATCH BASIN TYPES A AND B

ISSUED	9-2-91	STD. DWG.
REVISED	12-31-07	NO. R604-1



NOTES:

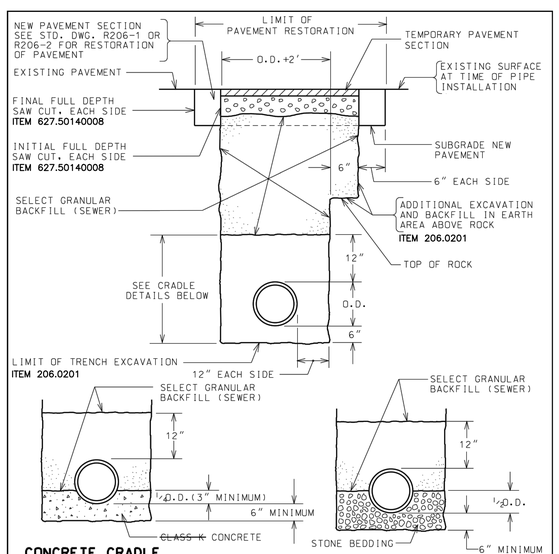
CITY OF ROCHESTER TYPE B CATCH BASIN TO BE PAID UNDER ITEM 604.500402

1. COAT INTERIOR OF CATCH BASIN WITH 2 COATS OF TAMMS DURALKOTE 240, OR APPROVED EQUIVALENT.
2. COAT EXTERIOR OF CATCH BASIN WITH 2 COATS OF HI-BUILD BITUMINOUS COATING 35-J-10, KOPPERS BITMASTIC SUPER SERVICE BLACK, OR APPROVED EQUIVALENT.
3. INSTALL CHECK VALVE TO PREVENT WATER FROM FLOWING BACK INTO UNDERDRAIN PIPE.
4. CATCH BASIN TRAP TO BE PER NEENAH R-3701-8, OR TEE WYE WITH THREADED CLEAN-OUT PLUG ON TOP SIDE.

CITY OF ROCHESTER

CATCH BASIN TYPE C

ISSUED	9-2-91	STD. DWG.
REVISED	9-19-11	NO. R604-2



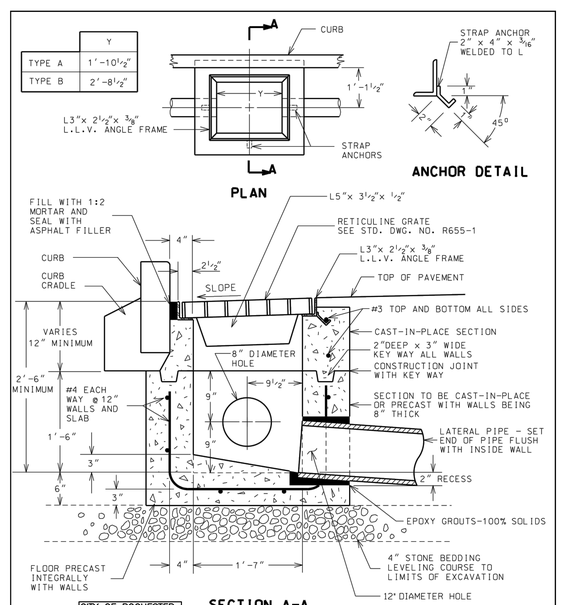
NOTES:

1. LIMITS SHOWN ARE MAXIMUM ALLOWED AND MINIMUM REQUIRED FOR EXCAVATION AND BACKFILL.
2. UPPER PAY LIMITS FOR TRENCH EXCAVATION IS TOP OF EXISTING SURFACE. AT TIME OF TRENCH EXCAVATION.
3. UPPER PAY LIMITS FOR ROCK EXCAVATION IS TOP SURFACE OF ROCK.
4. UPPER PAY LIMIT FOR SELECT GRANULAR BACKFILL (SEWER) IS BOTTOM OF TEMPORARY PAVEMENT (IF USED). OR FINISHED SURFACE IF SELECT GRANULAR BACKFILL (SEWER) IS PLACED UP TO FINISHED SURFACE AS NOTED ON THE DRAWINGS.
5. TEMPORARY OR PERMANENT BLOCKS OR ANY OTHER TYPE OF PIPE SUPPORT IS NOT TO BE USED DURING PIPE INSTALLATION.

CITY OF ROCHESTER

SEWER LATERAL TRENCH REHABILITATION AREA

ISSUED	9-2-91	STD. DWG.
REVISED	10-21-03	NO. R601-2



NOTES:

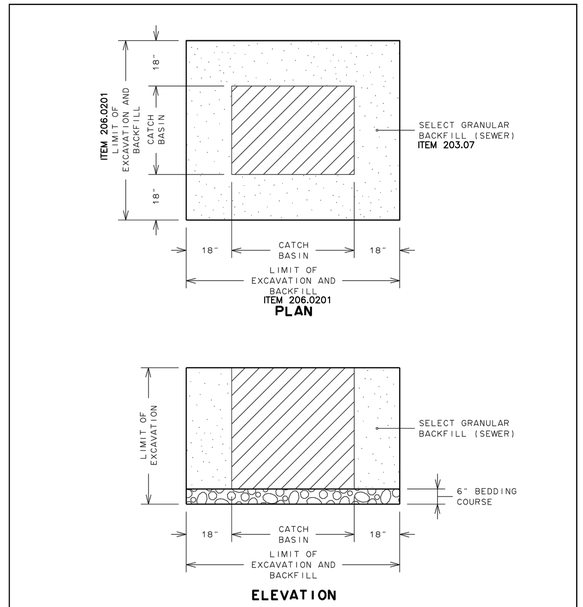
CITY OF ROCHESTER CATCH BASIN TO BE PAID UNDER ITEM 604.500401

1. COAT INTERIOR OF CATCH BASIN WITH 2 COATS OF TAMMS DURALKOTE 240. OR APPROVED EQUIVALENT.
2. COAT EXTERIOR OF CATCH BASIN WITH 2 COATS OF HI-BUILD BITUMINOUS COATING 35-J-10. KOPPERS BITMASTIC SUPER SERVICE BLACK. OR APPROVED EQUIVALENT.

CITY OF ROCHESTER

SHALLOW DEPTH CATCH BASIN

ISSUED	1-13-92	NON-STANDARD
REVISED	12-31-07	DWG.NO.S604-5



NOTES:

1. LIMITS SHOWN ARE MAXIMUM ALLOWED AND MINIMUM REQUIRED FOR EXCAVATION AND BACKFILL.
2. UPPER PAY LIMIT FOR TRENCH EXCAVATION IS TOP OF EXISTING SURFACE AT TIME OF EXCAVATION.
3. UPPER PAY LIMIT FOR SELECT GRANULAR BACKFILL (SEWER) IS BOTTOM OF TEMPORARY PAVEMENT (IF USED) OR TOP OF SURFACE - AS REQUIRED IN CONTRACT DOCUMENTS.

CITY OF ROCHESTER

TRENCH AND BACKFILL LIMIT LINES FOR CATCH BASINS

ISSUED	10-18-02	NON-STANDARD
REVISED	7-31-12	DWG.NO.S604-10

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WWW.FISHERASSOC.COM
Rochester, New York 14623
135 Culver Road, Suite 301
Phone: 585-244-1301

FA PROJECT NO. 134024
PROJECT MANAGER D. YANOSH
DRAWN BY D. YANOSH
SCALE AS SHOWN
ISSUE DATE 5/19/14

PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
DETAILS - 3

DRAWING NO.
C-510

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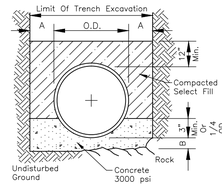
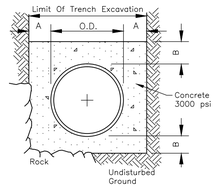
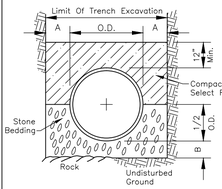
USER: Dan Yanosh



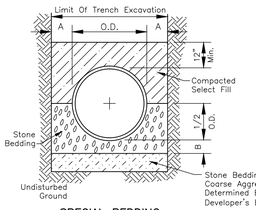
CONCRETE CRADLE
CLASS "A"



CONCRETE ENCASEMENT



FIRST CLASS
CLASS "B"



SPECIAL BEDDING
IN UNSTABLE MATERIAL

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

NOTES:

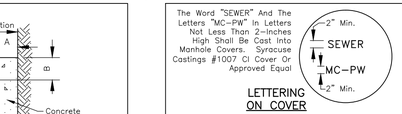
1. Trench backfill shall be as required by the highway owner.
2. Select fill shall be sand, gravel, and similar material which shall be free from clay, loam, organic material, debris, frozen material and shall contain only small amounts of stone, pebbles, or lumps over one inch in greatest dimension, but none over two inches in greatest dimension.
3. Stone bedding shall mean approved imported aggregate meeting the requirements of the New York State Department of Transportation, Standard Specification, "Crushed Stone", primary size 1 or a mixture of primary size 1 and 2, washed.
4. Coarse aggregate shall mean approved imported aggregate meeting the requirements of the New York State Department of Transportation, Standard Specification, "Crushed Stone", primary size 3 or a mixture of primary size 3 and 4.
5. This Figure 1.01 applies to Pure Waters sanitary, storm, and combined mainline sewers and lateral pipe installations, as well as forcemains.

MONROE COUNTY PURE WATERS

Feb 2005 | BEDDING DETAILS | FIGURE 1.01

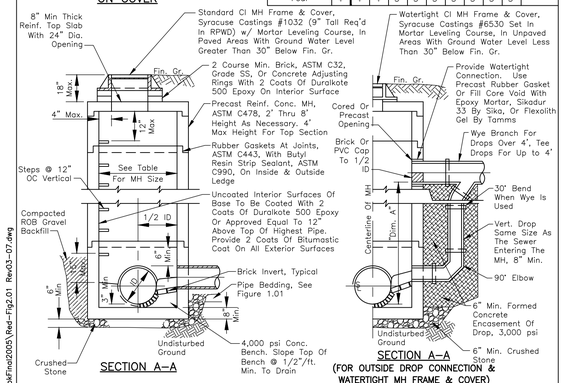
Filename: RedBookFinal2005\Red-Fig1.01.dwg
Time Printed: Tues Feb 15 09:45 2005
Final 02-15-2005

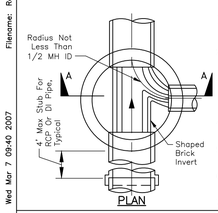
The Word "SEWER" And The Letters "MC-PW" In Letters Not Less Than 2-Inches High Shall Be Cast Into Manhole Covers. Syracuse Castings #1007 CI Cover Or Approved Equal



LETTERING ON COVER

# Of Connections	MINIMUM MANHOLE DIAMETERS — PIPE DIAMETERS 8"	10"	12"	15"	16"	18"	21"	24"	30"	36"	42" & Up
One	4'	4'	4'	4'	4'	4'	4'	4'	5'	5'	Requires Special Manhole
Two	4'	4'	4'	4'	4'	4'	4'	4'	5'	5'	
Three	4'	4'	4'	4'	4'	4'	5'	5'	5'	5'	
Four	4'	4'	4'	5'	5'	5'	5'	5'	5'	5'	





PLAN

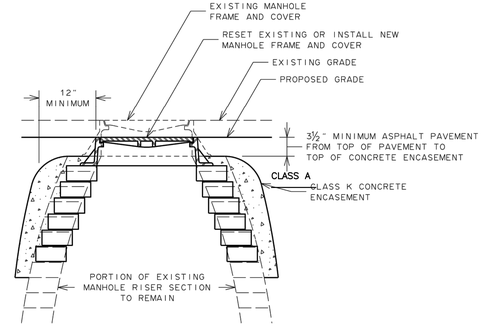
NOTES:

1. The crown of the influent sewer(s) should be at the same level or above the crown of the outlet sewer.
2. Concrete for structure shall have a minimum 28 day compressive strength of 4,000 psi.
3. Pipe connection to manhole shall be precast opening with flexible boot connector, PSX by Press-Seal Gasket Corp. or approved equal, or field cored opening. Cored openings in manhole riser sections shall be not less than 6-inches from a riser joint.
4. All riser joints shall be rubber ring gaskets conforming to ASTM C443, with butyl resin strip sealant on the inside and outside ledge of joints.
5. Riser sections & top slabs shall conform with ASTM C478, with HS-20 loading design.
6. Inverts shall be constructed with brick, ASTM C32, grade SS, soldier course laid in the direction of flow.
7. This Figure 2.01 applies to Pure Waters sanitary, storm, and combined sewers.

MONROE COUNTY PURE WATERS

MARCH 2007 | MANHOLE DETAILS WITH PRECAST REINFORCED CONCRETE BASE | FIGURE 2.01

Filename: RedBookFinal2005\Red-Fig2.01 Rev03-07.dwg
Time Printed: Wed Mar 7 09:40 2007
Draft 03-07-2007



NOTES:

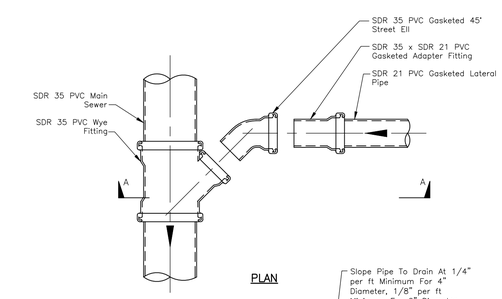
1. APPROPRIATE MEASURES ARE TO BE TAKEN TO PREVENT SURFACE WATER, GROUND WATER, MUD AND FOREIGN MATERIAL FROM ENTERING SEWER SYSTEM DURING CONSTRUCTION.
2. REMOVE PORTION OF EXISTING SEWER MANHOLE RISER AS NECESSARY TO RETROFIT FRAME AND COVER TO REQUIRED FINISHED ELEVATION AND ON SOUND BEARING. FOR ADJUSTMENT USE NEW CONCRETE ADJUSTMENT RING SET ON ½ INCH MORTAR BED, OR BRICK/BLOCK AND MORTAR.
3. ALL COURSES ARE TO BE COATED WITH 1 COAT OF ~~TAMMS DURALKOTE 500, OR APPROVED EQUIVALENT.~~
4. LOWER LIM~~IT OF CL~~ASS K CONCRETE ENCASEMENT IS TO BE BELOW LOWEST PORTION OF LEVELING COURSE.
5. ALL NEW BRICK IS TO BE 8000 PSI RED SEWER BRICK.
6. ADJUSTING EXISTING MANHOLE TO FINISHED GRADE TO BE PAID UNDER ITEM 604.070401

EPOXY LINER DESIGNED FOR PROTECTION AGAINST CHEMICAL ATTACH TO MANHOLES

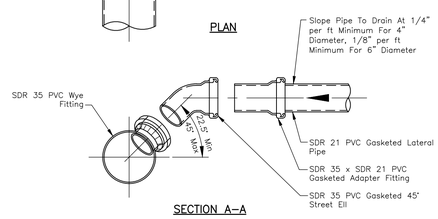
CITY OF ROCHESTER

SEWER MANHOLE FRAME AND COVER LOWERING GRADE

ISSUED 10-18-02 | REVISED 7-31-12 | NON-STANDARD DWG.NO.S604-11



PLAN



SECTION A-A

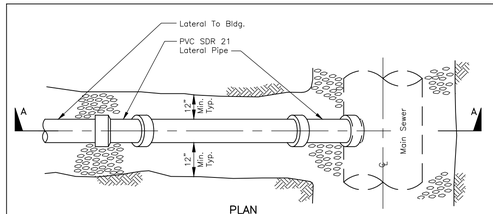
NOTES:

1. Main sewer pipe, lateral pipe, wye and other fittings shall be gasketed type fittings. Solvent weld joints are not allowed, except at cleanouts, see Figures 4.01-4.07.
2. See Figure 1.01 for pipe bedding and backfill.

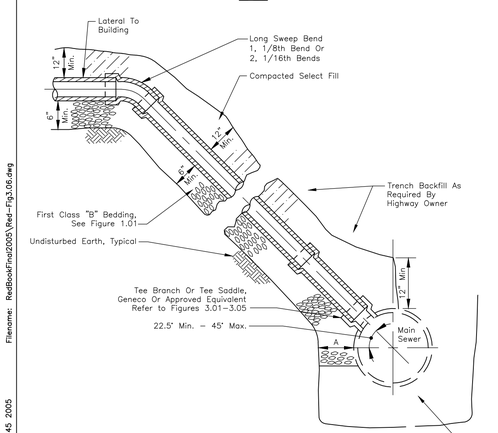
MONROE COUNTY PURE WATERS

Feb 2005 | NEW LATERAL WYE CONNECTION TO NEW SEWER | FIGURE 3.03

Filename: RedBookFinal2005\Red-Fig3.03.dwg
Time Printed: Tues Feb 15 09:45 2005
Final 02-15-2005



PLAN

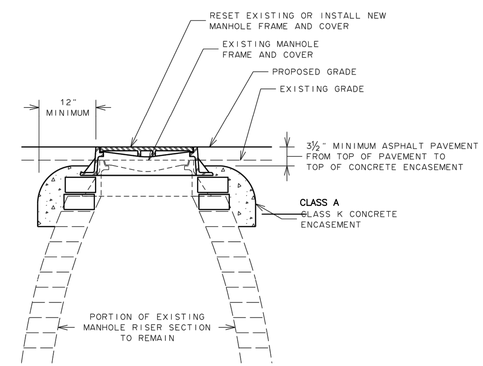


SECTION A-A

MONROE COUNTY PURE WATERS

Feb 2005 | LATERAL RISER CONNECTION | FIGURE 3.06

Filename: RedBookFinal2005\Red-Fig3.06.dwg
Time Printed: Tues Feb 15 09:45 2005
Final 02-15-2005



NOTES:

1. APPROPRIATE MEASURES ARE TO BE TAKEN TO PREVENT SURFACE WATER, GROUND WATER, MUD AND FOREIGN MATERIAL FROM ENTERING SEWER SYSTEM DURING CONSTRUCTION.
2. REMOVE PORTION OF EXISTING SEWER MANHOLE RISER AS NECESSARY TO RETROFIT FRAME AND COVER TO REQUIRED FINISHED ELEVATION AND ON SOUND BEARING. FOR ADJUSTMENT USE NEW CONCRETE ADJUSTMENT RING SET ON ½ INCH MORTAR BED, OR BRICK/BLOCK AND MORTAR.
3. ALL COURSES ARE TO BE COATED WITH 1 COAT OF ~~TAMMS DURALKOTE 500, OR APPROVED EQUIVALENT.~~
4. LOWER LIMIT OF ~~CLASS K~~ CONCRETE ENCASEMENT IS TO BE BELOW LOWEST PORTION OF LEVELING COURSE.
5. ALL NEW BRICK IS TO BE 8000 PSI RED SEWER BRICK.
6. ADJUSTING EXISTING MANHOLE TO FINISHED GRADE TO BE PAID UNDER ITEM 604.070401

EPOXY LINER DESIGNED FOR PROTECTION AGAINST CHEMICAL ATTACH TO MANHOLES

CITY OF ROCHESTER

SEWER MANHOLE FRAME AND COVER RAISING GRADE

ISSUED 10-18-02 | REVISED 7-31-12 | NON-STANDARD DWG.NO.S604-12

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ROCHESTER, NEW YORK

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DETAILS - 4

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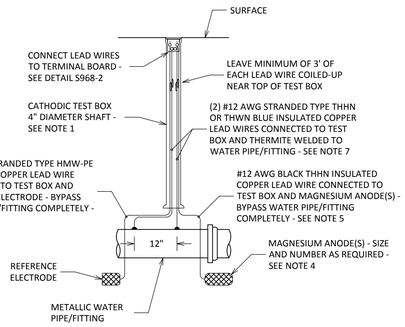


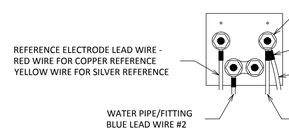
PLAN

NOTES:

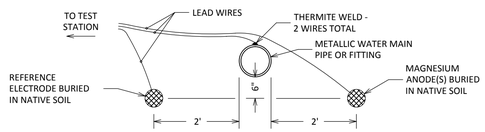
1. TEST BOX LOCATED IN PAVED AREA IS TO BE HOUSED INSIDE 7 INCH DIAMETER CAST IRON VALVE BOX.
2. TEST STATION IS TO BE INSTALLED WHERE SHOWN ON PLANS OR AS DIRECTED BY PROJECT MANAGER.
3. WIRES LEADING TO TEST STATION ARE TO BE BURIED WITH MINIMUM 4.50 FEET OF COVER.
4. EACH MAGNESIUM ANODE AT TEST STATION IS TO BE FURNISHED WITH MINIMUM OF 20 FEET OF LEAD WIRE.
5. NO MAGNESIUM ANODE LEAD WIRE IS TO BE DIRECTLY ATTACHED TO TEST PIPE SECTION OR FITTING.
6. FOR COPPER REFERENCE USE RED WIRE OR WRAP TEST BOX END OF LEAD WIRE WITH RED ELECTRICAL TAPE. FOR SILVER REFERENCE USE YELLOW WIRE OR WRAP TEST BOX END OF LEAD WIRE WITH YELLOW ELECTRICAL TAPE.
7. FOR SECTION AND TERMINAL BOARD CONNECTION, SEE DETAIL S968-2.

CITY OF ROCHESTER
CATHODIC PROTECTION TEST STATION FOR METALLIC WATER PIPE OR FITTING

ISSUED	5-3-02	NON-STANDARD
REVISED	6-1-10	DWG.NO.S968-1



TERMINAL BOARD CONNECTION



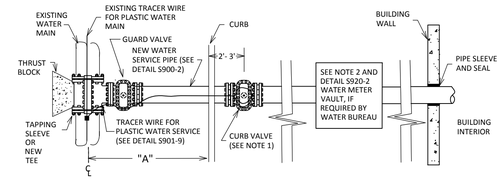
SECTION

NOTES:

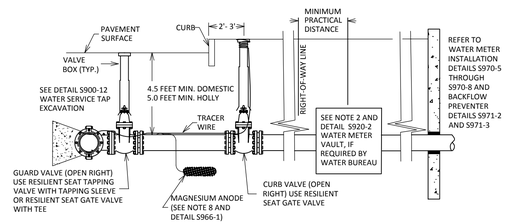
1. FOR PLAN VIEW, SEE DETAIL S968-1.
2. FOR THERMITE WELD DETAILS, SEE DETAIL S966-2.

CITY OF ROCHESTER
CATHODIC PROTECTION TEST STATION FOR METALLIC WATER PIPE OR FITTING

ISSUED	5-3-02	NON-STANDARD
REVISED	6-1-10	DWG.NO.S968-2



PLAN



ELEVATION

NOTE:

FOR NEW WATER SERVICE NOTES, SEE DETAIL S970-5

CITY OF ROCHESTER
NEW WATER SERVICE 4 INCH AND LARGER ON EXISTING WATER MAIN

ISSUED	8-8-11	NON-STANDARD
REVISED		DWG.NO.S970-4

NOTES:

1. IF DIMENSION "A" BETWEEN THE CENTERLINE OF THE WATER MAIN AND THE FACE OF CURB IS 6 FEET OR LESS, THE CURB VALVE IS NOT REQUIRED. CURB VALVE IS REQUIRED WHEN DIMENSION "A" EXCEEDS 6 FEET.
2. A METER VAULT MAY BE REQUIRED FOR A DOMESTIC SERVICE, WHEN THE WATER SERVICE LENGTH, AS MEASURED FROM THE STREET RIGHT-OF-WAY LINE TO THE BUILDING WALL, EXCEEDS 100 FEET. WHEN THE WATER SERVICE LENGTH EXCEEDS 100 FEET, THE WATER BUREAU WILL REVIEW EACH NEW WATER SERVICE PLAN TO DETERMINE IF THE METER SHOULD EITHER BE PLACED; INSIDE OF THE HEATED BUILDING; IN A METER VAULT OUTSIDE OF THE BUILDING NEAR THE RIGHT-OF-WAY LINE OR IN A HEATED ABOVE GROUND ENCLOSURE NEAR THE RIGHT-OF-WAY LINE.
3. ALL JOINTS ON NEW WATER SERVICE PIPE, FITTINGS AND VALVES SHALL BE MECHANICALLY RESTRAINED. CONCRETE THRUST BLOCKS ARE ALSO REQUIRED AT FITTINGS PER DETAIL DRAWINGS S900-4, S900-5, S900-9 AND S900-10.
4. A BACKFLOW PREVENTION DEVICE IS REQUIRED ON ALL DOMESTIC WATER SERVICES 1 ½ AND LARGER.
5. NEW WATER SERVICE SHALL BE PRESSURE TESTED FROM GUARD VALVE TO WITHIN 5 FEET OF EXTERIOR BUILDING WALL. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION S900-3.05. PIPE, FITTING AND VALVE JOINTS ON PORTION OF SERVICE NOT SUBJECT TO PRESSURE TEST SHALL BE LEAK TESTED AT NORMAL OPERATING PRESSURE.
6. WHEN THE LENGTH OF THE NEW WATER SERVICE EXCEEDS 50 FEET, WATER SERVICE SHALL BE DISINFECTED USING THE CONTINUOUS FEED METHOD IN ACCORDANCE WITH SPECIFICATION S900-3.06. FOR WATER SERVICES LESS THAN 50 FEET, ALL WATER SERVICE PIPE, FITTINGS AND VALVES SHALL BE SPRAY OR SWAB DISINFECTED WITH 1%-5% CHLORINE SOLUTION.
7. ON PLASTIC WATER SERVICES, WHEN DIMENSION "A" IS 6 FEET OR LESS AND THE CURB VALVE IS NOT REQUIRED, EXTEND TRACER WIRE ALONG SERVICE TO RIGHT-OF-WAY LINE AND INSTALL TRACER WIRE TERMINATION BOX AT RIGHT-OF-WAY.
8. ONE MAGNESIUM ANODE IS TO BE INSTALLED ON EACH PIECE OF NEW DUCTILE IRON WATER SERVICE PIPE BETWEEN THE WATER MAIN AND RIGHT-OF-WAY LINE. SEE DETAIL S966-2. USE 17 POUND ANODE ON 4 INCH AND 6 INCH PIPE, 32 POUND ANODE ON 8 INCH AND 10 INCH PIPE AND 48 POUND ANODE ON 12 INCH PIPE.
9. ALL DUCTILE IRON WATER SERVICE PIPE, FITTINGS AND VALVES LOCATED WITHIN THE STREET RIGHT-OF-WAY ARE TO BE INSTALLED IN POLYETHYLENE ENCASEMENT.
10. IF PLANS CALL FOR THE INSTALLATION OF A TAPPING SLEEVE AND VALVE, BUT THE WATER MAIN CAN NOT BE TAPPED DUE TO SPATIAL LIMITATIONS , A NEW SERVICE TEE WITH A SERVICE VALVE MAY NEED TO BE CUT INTO THE EXISTING WATER MAIN.
11 PROPOSED DEVIATIONS TO THE APPROVED PLANS REQUIRE WATER BUREAU AUTHORIZATION BEFORE BEGINNING THE WORK.

CITY OF ROCHESTER
NEW WATER SERVICE 4 INCH AND LARGER ON EXISTING WATER MAIN – NOTES

ISSUED	8-11-11	NON-STANDARD
REVISED		DWG.NO.S970-5

CITY OF ROCHESTER
WATER SERVICE INSTALLATION DATA

PROPERTY ADDRESS: _____
STREET SERVICE TAPPED ON (IF DIFFERENT): _____
DATE OF INSTALLATION: _____ DOMESTIC OR HOLLY SYSTEM? _____
TAP SIZE: _____ DISTANCE, MAIN TO ROW LINE: _____ SIDE OF ST. TAPPED: _____
CURB STOP/VALVE SIZE: _____ SERVICE LENGTH: _____ SERVICE MATERIAL: _____
CONTRACTOR/PLUMBER: _____
TAP INSTALLED BY: _____ INSPECTOR: _____
CURB OR OPERATING VALVE LOCATION ●: _____
TAP OR GUARD VALVE LOCATION (IF DIFFERENT): _____
INSULATOR INSTALLED? _____ IF YES, WHERE: _____
ANODE BAG INSTALLED? _____ IF YES, SIZE: _____
INSIDE SERVICE MATERIAL & SIZE: _____

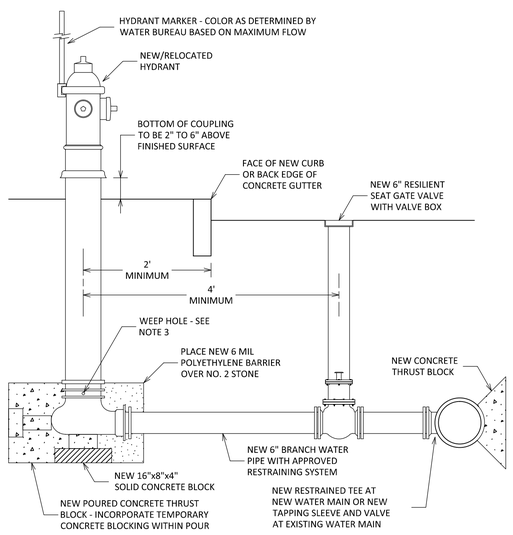
● MEASURED FROM ROW OF NEAREST INTERSECTING STREET/NEAREST HYDRANT JUNE 2009

NOTES:

1. WATER SERVICE CARD WILL BE SUPPLIED BY WATER BUREAU. REQUIRED INFORMATION IS TO BE TYPED OR NEATLY PRINTED ON WATER SERVICE CARD.
2. WATER SERVICE CARD FOR WATER SERVICE THAT IS ABANDONED AT TAP IS TO BE MARKED "ABANDONED AT TAP" ACROSS FACE OF WATER SERVICE CARD WITH CONTRACTOR'S NAME AND DATE ABANDONED BEING NOTED.
3. MEASUREMENT FOR LOCATION OF CURB STOP IS TO BE TAKEN FROM RIGHT-OF-WAY EXTENSION OF NEAREST INTERSECTING STREET AS MEASURED PARALLEL TO STREET ON WHICH WATER SERVICE IS INSTALLED, OR FROM NEAREST HYDRANT LOCATED OFF OF SAME WATER MAIN, WHICHEVER IS CLOSEST (SEE NOTE 5 FOR EXCEPTION).
4. IF NEAREST INTERSECTING STREET RIGHT-OF-WAY EXTENSION IS NOT PERPENDICULAR TO THE STREET RIGHT-OF-WAY ON WHICH THE CURB STOP IS LOCATED, THE CURB STOP MEASUREMENT SHOULD BE TAKEN FROM THE NEAREST HYDRANT ATTACHED TO THE WATER MAIN WHICH THE WATER SERVICE IS CONNECTED TO. IF SUCH A HYDRANT IS NOT AVAILABLE, THEN ANOTHER PERMANENT FEATURE, PRE-APPROVED BY THE WATER BUREAU, SHALL BE USED FOR THE CURB STOP MEASUREMENT.

CITY OF ROCHESTER
WATER SERVICE CARD

ISSUED	9-2-91	STD. DWG.
REVISED	5-18-11	NO. R913-3

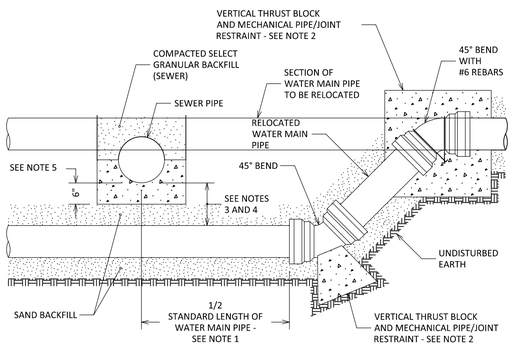


NOTES:

1. PUMPER CONNECTION IS TO FACE PAVEMENT.
2. MECHANICAL JOINT OFFSET OR HYDRANT EXTENSION KIT CAN BE USED TO SET HYDRANT AT PROPER ELEVATION.
3. WHEN GROUND WATER IS ENCOUNTERED IN TRENCH, IF APPROVED OF BY CITY, HYDRANT WEEP HOLES MAY BE PLUGGED AND STONE DRAIN OMITTED. CONTRACTOR IS TO NOTIFY WATER BUREAU IN WRITING WHEN WEEP HOLES HAVE BEEN PLUGGED.
4. HYDRANT MARKERS TO BE FURNISHED BY WATER BUREAU AND INSTALLED BY CONTRACTOR.

CITY OF ROCHESTER
HYDRANT AND VALVE WITH NEW BRANCH

ISSUED	9-2-91	STD. DWG.
REVISED	12-20-13	NO. R917-1



NOTES:

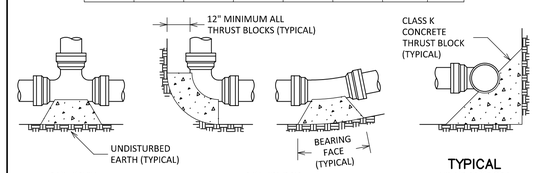
1. ONE STANDARD FULL LENGTH OF WATER MAIN PIPE IS TO BE CENTERED ON SEWER PIPE SO THAT BOTH JOINTS OF WATER MAIN PIPE WILL BE AS FAR FROM SEWER PIPE AS POSSIBLE.
2. THRUST BLOCKS AND PIPE/JOINT RESTRAINTS ARE TO BE PROVIDED AT ALL BENDS, SEE DETAILS S900-5, S900-7, S900-8 AND S900-10.
3. WHERE WATER MAIN PIPE PASSES UNDER SEWER PIPE THERE IS TO BE MINIMUM 18 INCHES OF VERTICAL SEPARATION BETWEEN WATER MAIN PIPE AND SEWER PIPE.
4. WHERE VERTICAL SEPARATION IS LESS THAN 18 INCHES, WATER MAIN PIPE JOINTS LOCATED WITHIN 18 FEET OF BOTH SIDES OF SEWER PIPE MUST BE ENCASED WITHIN CONTROLLED DENSITY FILL MATERIAL, OR SEWER PIPE CONSTRUCTED WITH WATER MAIN STANDARD PIPE AND TESTED TO 150 PSI.
5. WHERE WATER MAIN PIPE PASSES UNDER SEWER PIPE THERE IS TO BE MINIMUM OF 6 INCHES OF CLASS K CONCRETE OR CRUSHED STONE BEDDING MATERIAL FOR SEWER PIPE.

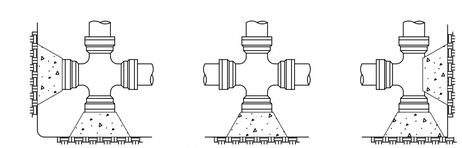
CITY OF ROCHESTER
WATER MAIN CROSSING BELOW SEWER PIPE

ISSUED	1-13-06	NON-STANDARD
REVISED	11-22-10	DWG.NO.S900-3

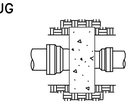
AREA OF BEARING FACE OF THRUST BLOCK IN SQUARE FEET (AREA BASED ON INTERNAL PRESSURE OF 150 PSIG AND SOIL BEARING PRESSURE OF 2000 PSF) (SEE NOTE 1)

PIPE SIZE	BEND				TEE PLUG	REDUCER	
	90°	45°	22-1/2°	11-1/4°		SIZE	AREA
4" - 6"	4	2.5	1.5	1	3	6" x 4"	2
8"	7	4	2	1	5	8" x 6"	2.5
12"	14.5	8	4	2	10.5	12" x 8"	5.5





AT TEE, CROSS AND PLUG



AT REDUCER

NOTES:

1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON DOMESTIC WATER MAIN PIPE LARGER THAN 12 INCHES.
2. THRUST BLOCK IS TO BE POURED AGAINST UNDISTURBED EARTH. WIDTH OF THRUST BLOCK SHOULD BE APPROXIMATELY TWICE HEIGHT.
3. THRUST BLOCK IS TO BE INSTALLED AT ALL BENDS, PLUGS, TEES, AND TAPPING SLEEVE AND VALVE CONNECTIONS.
4. FACTORY CAST OFFSETS ARE TO BE TREATED AS (2) 45 DEGREE BENDS.
5. FOR REDUCERS, THRUST BLOCK IS TO BE KEYED INTO WALLS AND BOTTOM OF TRENCH.
6. MECHANICAL RESTRAINT IS REQUIRED IN ADDITION TO THRUST BLOCK, SEE DETAIL S900-7.
7. WOOD BLOCKING IS NOT PERMITTED.

CITY OF ROCHESTER
HORIZONTAL THRUST BLOCK DOMESTIC SYSTEM

ISSUED	1-13-06	NON-STANDARD
REVISED	8-7-13	DWG.NO.S900-4

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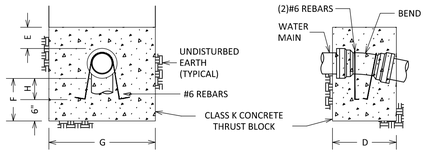
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING: DETAILS - 5

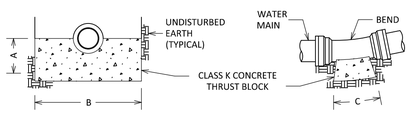
DRAWING NO. C-520

FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 Details.dwg
DATE/TIME: 5/19/2014 12:43:03 PM
USER: Don Yanosh

PIPE SIZE (INCHES)	BEND	TOP SECTION MINIMUM VOLUME CONCRETE	MINIMUM DIMENSIONS (IN FEET)							
			A	B	C	D	E	F	G	H
6"	11-1/4°	0.25 CY	1.0	2.5	1.0	1.5	0.5	1.0	2.5	0.5
	22-1/2°	0.50 CY	1.0	2.5	1.0	1.5	1.0	2.0	2.5	1.5
	45°	0.95 CY	1.0	2.5	1.0	3.0	1.5	2.0	2.5	1.5
	90°	1.30 CY	1.0	2.5	2.0	3.5	1.5	2.0	2.5	1.5
8"	11-1/4°	0.45 CY	1.0	2.7	1.0	1.5	1.0	1.5	2.7	1.0
	22-1/2°	0.90 CY	1.0	2.7	1.0	2.5	1.0	2.0	2.7	1.5
	45°	1.65 CY	1.0	2.7	1.5	3.5	1.5	2.0	3.0	1.5
	90°	2.35 CY	1.5	2.7	3.0	4.0	2.0	3.0	3.0	2.5
12"	11-1/4°	1.05 CY	1.0	3.0	1.5	2.5	1.5	2.0	3.0	1.5
	22-1/2°	2.00 CY	1.0	3.0	1.5	4.0	2.0	2.0	3.0	1.5
	45°	3.70 CY	1.5	3.0	3.0	5.0	2.0	3.0	3.5	2.5
	90°	5.20 CY	1.5	3.0	5.0	5.5	2.5	3.5	4.0	3.0



UPPER VERTICAL BEND



LOWER VERTICAL BEND

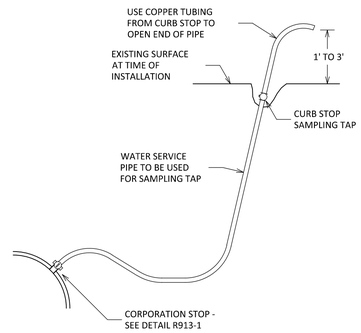
NOTES:

1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON DOMESTIC WATER MAIN PIPE LARGER THAN 12 INCHES.
2. MECHANICAL RESTRAINT IS REQUIRED IN ADDITION TO THRUST BLOCK, SEE DETAIL S900-7.

CITY OF ROCHESTER

VERTICAL THRUST BLOCK DOMESTIC SYSTEM

ISSUED 1-13-06 REVISED 6-1-09 NON-STANDARD DWG.NO.S900-5



NOTES:

1. LOCATION OF SAMPLING TAPS ARE SUBJECT TO PRIOR APPROVAL BY CITY AND MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH.
2. IF SAMPLING TAP IS LOCATED IN PAVED AREA, SAMPLING TAP IS TO BE KEPT BELOW GROUND EXCEPT WHEN IN USE.
3. IF APPROVED BY CITY, SAMPLING TAP MAY BE LOCATED AT SAME LOCATION AS NEW WATER SERVICE.
4. IF SAMPLING TAP IS NOT TO BE USED AS NEW WATER SERVICE, UPON NOTIFICATION OF ACCEPTABLE SAMPLE RESULTS, CORPORATION STOP IS TO BE REMOVED AND REPLACED WITH A BRASS PLUG OR CORPORATION STOP IS TO BE CLOSED, WATER SERVICE PIPE DISCONNECTED FROM CORPORATION AND BRASS CAP INSTALLED ON OUTLET OF CORPORTATION STOP.
5. MAXIMUM DISTANCE BETWEEN SAMPLING TAPS ON NEW WATER MAIN INSTALLATION IS 1,000 FEET.

CITY OF ROCHESTER

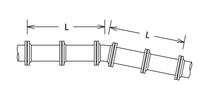
DISINFECTION SAMPLING TAP

ISSUED 1-13-06 REVISED 7-24-13 NON-STANDARD DWG.NO.S900-6

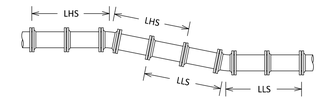
MINIMUM RESTRAINED LENGTH FOR WATER MAIN PIPE ADJACENT TO FITTINGS (IN FEET) (BASED ON INTERNAL PRESSURE OF 150 PSI) (SEE NOTE 1)

PIPE SIZE (INCHES)	MINIMUM LENGTH ✱	90°	45°	22-1/2°	11-1/4°	REDUCER	TEE	CAP PLUG
4" - 6"	L	16	7	3	2	29	16	56
	LHS	49	24	12	6	---	---	---
	LLS	16	6	3	2	---	---	---
8"	L	20	9	4	2	31	33	74
	LHS	64	31	15	8	---	---	---
	LLS	20	8	4	2	---	---	---
12"	L	28	12	6	3	56	64	105
	LHS	91	44	21	11	---	---	---
	LLS	28	11	5	3	---	---	---

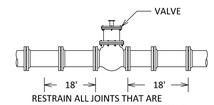
✱ L = HORIZONTAL LENGTH
LHS = VERTICAL HIGH SIDE LENGTH
LLS = VERTICAL LOW SIDE LENGTH



HORIZONTAL BEND

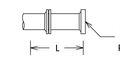


VERTICAL BEND

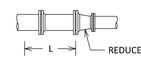


RESTRAIN ALL JOINTS THAT ARE WITHIN 18 FEET MINIMUM OF VALVE

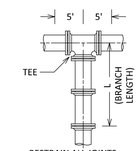
VALVE



CAP OR PLUG



REDUCER



RESTRAIN ALL JOINTS IN RUN DIRECTION THAT ARE WITHIN 5 FEET MINIMUM OF TEE

TEE

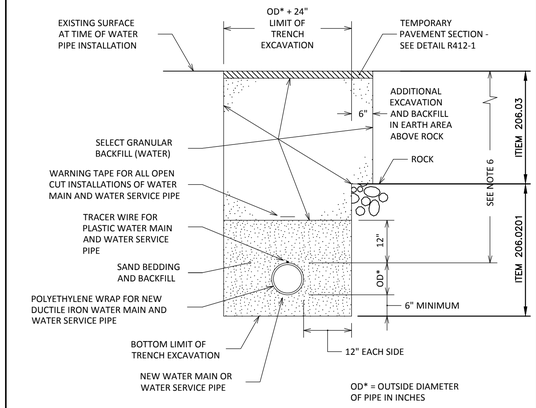
NOTES:

1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON DOMESTIC WATER MAIN PIPE LARGER THAN 12 INCHES AND FOR REDUCERS HAVING MORE THAN ONE PIPE SIZE DIFFERENCE.
2. CONCRETE THRUST BLOCK IS TO BE USED IN ADDITION TO MECHANICAL RESTRAINT DEVICES, SEE DETAILS S900-4 AND S900-5.
3. ALL PLASTIC AND POLYETHYLENE WRAPPED DUCTILE IRON DOMESTIC WATER MAIN PIPE AND FITTING JOINTS WITHIN L-LHS-LLS DIMENSIONS MUST BE RESTRAINED USING APPROVED MECHANICAL RESTRAINT DEVICE.
4. ASSUMPTION: SP SOILS, 4.50 FEET COVER, AND TYPE 4 LAYING CONDITION.

CITY OF ROCHESTER

WATER MAIN PIPE RESTRAINT DOMESTIC SYSTEM

ISSUED 5-8-08 REVISED 9-1-09 NON-STANDARD DWG.NO.S900-7



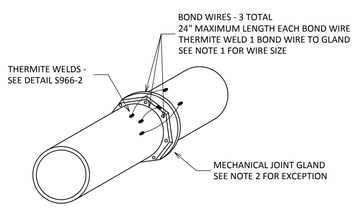
NOTES:

1. LIMITS SHOWN ARE MAXIMUM ALLOWED AND MINIMUM REQUIRED FOR EXCAVATION AND BACKFILL.
2. UPPER LIMIT FOR TRENCH EXCAVATION IS TOP OF EXISTING SURFACE AT TIME OF TRENCH EXCAVATION.
3. UPPER LIMIT FOR ROCK EXCAVATION IS TOP SURFACE OF ROCK.
4. UPPER LIMIT FOR SELECT GRANULAR BACKFILL (WATER) IS BOTTOM OF TEMPORARY PAVEMENT, IF USED, OTHERWISE TOP OF SURFACE.
5. TEMPORARY OR PERMANENT BLOCKS OR ANY OTHER TYPE OF PIPE SUPPORT IS NOT TO BE USED DURING PIPE INSTALLATION.
6. MINIMUM DEPTH OF COVER FOR WATER PIPE FROM TOP OF PROPOSED GRADE IS 4.50 FEET FOR DOMESTIC WATER PIPE, AND 5 FEET FOR HOLLY WATER PIPE, UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY PROJECT MANAGER.

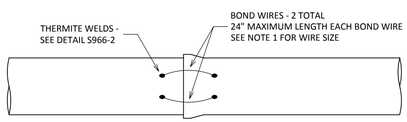
CITY OF ROCHESTER

WATER TRENCH PAVEMENT RECONSTRUCTION

ISSUED 1-13-06 REVISED 11-22-10 NON-STANDARD DWG.NO.S900-1



MECHANICAL JOINT



PUSH-ON JOINT

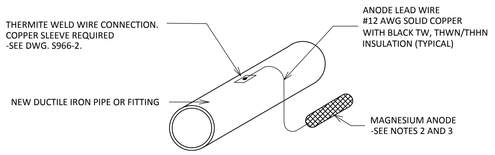
NOTES:

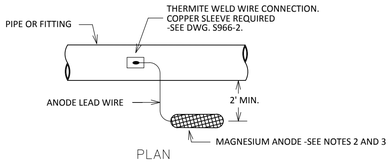
1. USE #8 AWG STRANDED COPPER WIRE WITH HMWPE INSULATION FOR JOINT BONDS ON PIPE SIZES 12 INCHES IN DIAMETER AND SMALLER AND USE #4 AWG STRANDED COPPER WIRE WITH HMWPE INSULATION FOR JOINT BONDS ON PIPE SIZES LARGER THAN 12 INCHES IN DIAMETER.
2. JOINT BONDS ARE NOT REQUIRED AT MECHANICAL JOINTS WHERE MECHANICAL JOINT RESTRAINT GLANDS HAVE BEEN INSTALLED
3. PIPE AND FITTING GASKETS ARE TO BE COVERED AND PROTECTED FROM DAMAGE WHEN INSTALLING JOINT BONDS

CITY OF ROCHESTER

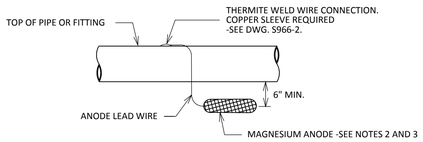
JOINT BOND FOR METALLIC WATER MAIN PIPE/FITTING

ISSUED 1-13-06 REVISED 9-16-13 NON-STANDARD DWG.NO.S962-1





PLAN



ELEVATION

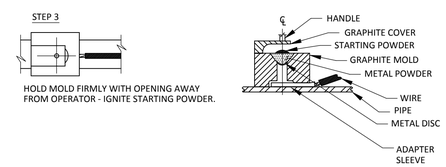
NOTES:

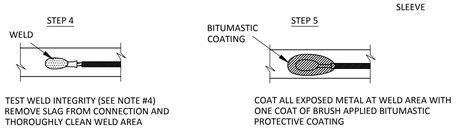
1. PIPE/FITTING PROTECTIVE WRAP IS NOT SHOWN FOR CLARITY. UNLESS OTHERWISE NOTED, DUTILE IRON WATER MAIN SHALL BE WRAPPED WITH POLYETHYLENE WRAP AND NON-EPOXY COATED DUCTILE IRON FITTINGS ON PLASTIC WATER MAINS SHALL BE COATED WITH PRIMER AND WAX TAPE.
2. USE HIGH POTENTIAL MAGNESIUM ANODE IN PREPACKAGED CLOTH BAG WITH BACKFILL. WEIGHT OF ANODE INGOT (EXCLUDING BACKFILL) AND SPACING OF ANODES ALONG DUCTILE IRON WATER MAIN AS NOTED ON PLANS OR AS DIRECTED BY PROJECT MANAGER.
3. ANODE IS TO BE PLACED IN TRENCH WITH ANODE CENTERLINE 6 INCHES MINIMUM BELOW BOTTOM OF PIPE OR FITTING AND 2 FEET MINIMUM FROM SIDE WALL OF PIPE OR FITTING. ANODE TO BE SURROUNDED WITH NATIVE BACKFILL.

CITY OF ROCHESTER

ANODE AT NEW DUCTILE IRON WATER MAIN OR DUCTILE IRON FITTING ON NEW PLASTIC WATER MAIN

ISSUED 3-21-02 REVISED 12-28-10 NON-STANDARD DWG.NO.S966-1





NOTES:

1. FOLLOW MANUFACTURER'S PROCEDURES AND RECOMMENDATIONS WHEN THERMITE WELDING.
2. USE APPROPRIATE WELD MOLDS AND WELD METALS FOR SPECIFIC SIZE AND MATERIAL OF PIPE THAT WIRE IS BEING ATTACHED TO.
3. WHEN THERMITE WELDING #12 AWG WIRES OR SMALLER, INSERT END OF WIRE INTO AN APPROVED COPPER SLEEVE PRIOR TO THERMITE WELDING AND CRIMP SLEEVE ON WIRE.
4. TEST WELD INTEGRITY BY STRIKING WELD WITH A HAMMER AFTER WELD HAS COOLED. AVOID STRIKING WIRE.

CITY OF ROCHESTER

THERMITE WELD DETAILS

ISSUED 10-17-08 REVISED 12-28-10 NON-STANDARD DWG.NO.S966-2

Know what's below. Call before you dig.

FINAL REVIEW

REV	DESCRIPTION	DATE	BY
7			
6			
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PROJECT MANAGER D. YANOSH
DRAWN BY D. YANOSH
SCALE AS SHOWN
ISSUE DATE 5/19/14

PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
DETAILS - 6

DRAWING NO.
C-525

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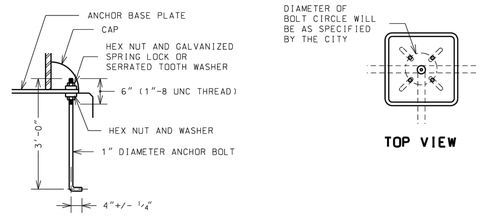
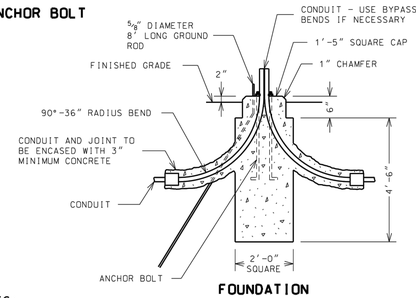
DATE/TIME: 5/19/2014 12:43:12 PM
USER: Don Yanosh



TOP VIEW

ANCHOR BOLT



FOUNDATION

NOTES:

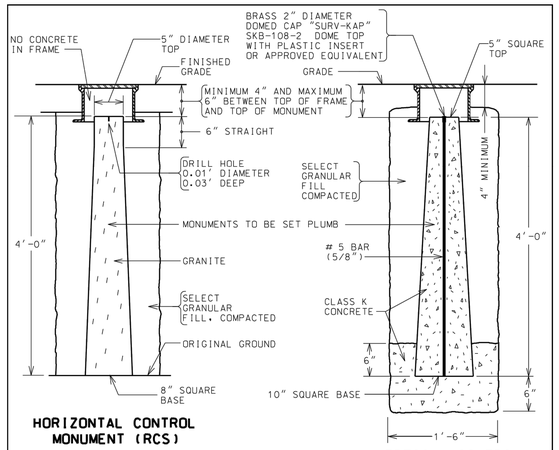
1. FOUNDATION TO BE MADE OF ~~CLASS K~~ CONCRETE. TOP OF FOUNDATION TO BE 2 INCHES ABOVE FINISHED GRADE.
2. GROUND ROD TO BE DRIVEN INTO UNDISTURBED EARTH ADJACENT TO FOUNDATION AND BENT INTO FOUNDATION TOP. TOP OF GROUND ROD TO EXTEND 4 INCHES ABOVE TOP OF FOUNDATION.
3. ANCHOR BOLTS TO BE IN ACCORDANCE WITH ASTM F1554 GRADE 55. TOP OF ANCHOR BOLTS TO EXTEND 3 INCHES ABOVE TOP OF FOUNDATION.
4. TOP OF CONDUIT TO EXTEND 9 INCHES ABOVE TOP OF FOUNDATION.
5. SUPPLY TWO LEVELING SHIMS WITH EACH ANCHOR BOLT FOR LEVELING BASE PLATE AND TO PLUMB POLE.

TO BE PAID FOR UNDER ITEM 670.0105

CITY OF ROCHESTER

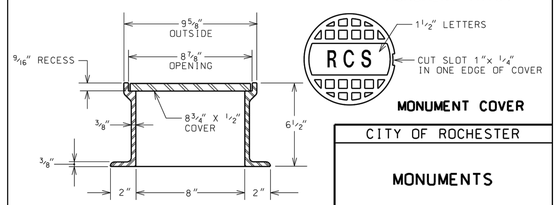
METAL POLE FOUNDATION

ISSUED 9-2-91 | STD. DWG.
REVISED 4-28-06 | NO. R671-6



HORIZONTAL CONTROL MONUMENT (RCS)

VERTICAL CONTROL MONUMENT (RTS)



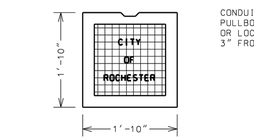
CAST IRON FRAME AND COVER

MONUMENT COVER

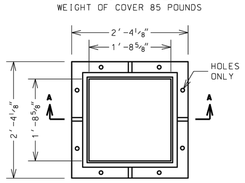
CITY OF ROCHESTER

MONUMENTS

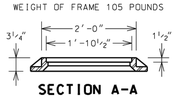
ISSUED 9-2-91 | STD. DWG.
REVISED 10-21-03 | NO. R626-1



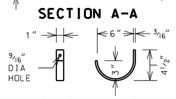
CAST IRON COVER
WEIGHT OF COVER 85 POUNDS



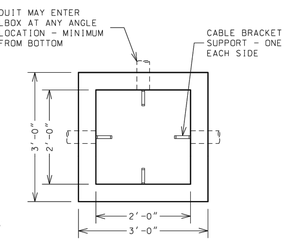
CAST IRON FRAME
WEIGHT OF FRAME 105 POUNDS



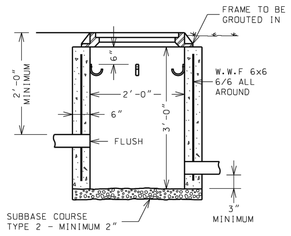
SECTION A-A



STEEL CABLE BRACKET SUPPORT
HOT DIPPED GALVANIZED



PULLBOX PLAN



PULLBOX SECTION

NOTES:

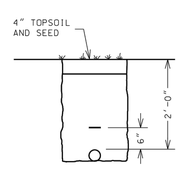
1. PULLBOX IS TO BE MADE OF CAST-IN-PLACE OR PRECAST CLASS K CONCRETE.
2. FRAME AND COVER ARE TO BE GRAY CAST IRON PER ASTM A48 CLASS 30 IN CONFORMANCE WITH THE REQUIREMENTS OF NYSDOT SECTION 715-05.
3. SIZE OF LETTERS TO BE 2 INCH.
4. TOP OF PULLBOX TO BE SET FLUSH IN PAVED AREA AND 1 INCH ABOVE GRADE IN LAWN AREA.

TO BE PAID UNDER ITEM 5676.1024

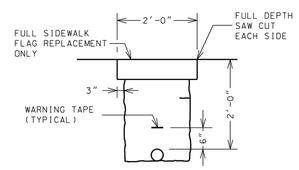
CITY OF ROCHESTER

CONCRETE PULLBOX (24 INCH)

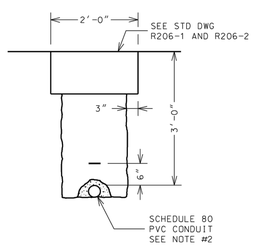
ISSUED 9-2-91 | STD. DWG.
REVISED 4-28-06 | NO. R671-2



LAWN AREA

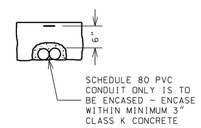


DRIVEWAY OR SIDEWALK CROSSING



SCHEDULE 80 PVC CONDUIT SEE NOTE #2

ROADWAY CROSSING



MULTIPLE CONDUITS

CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION TO BE PAID UNDER ITEM 5671.020202

NOTES:

1. ALL CONDUIT RUNS ARE TO DRAIN INTO THE PULLBOX.
2. IF REQUIRED BY PROJECT MANAGER. CONDUIT FOR ROADWAY CROSSINGS IS TO BE ENCASED WITHIN CLASS K CONCRETE - FROM PULLBOX TO PULLBOX. OR FROM PULLBOX TO LIGHT POLE.

CITY OF ROCHESTER

CONDUIT TRENCH

ISSUED 9-2-91 | STD. DWG.
REVISED 4-28-06 | NO. R671-1

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FINAL REVIEW

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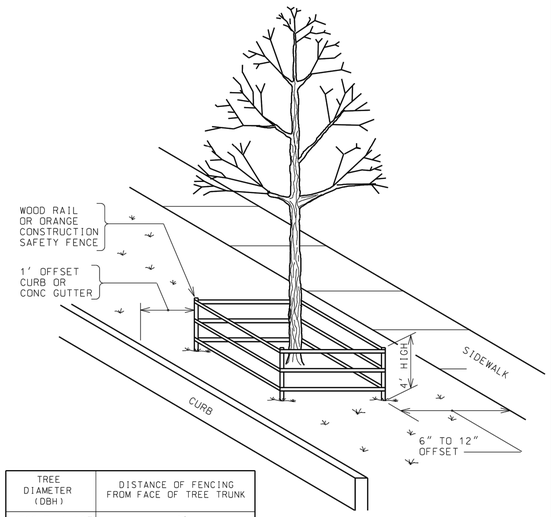
F.A. PROJECT NO. 134024
PROJECT MANAGER D. YANOSH
DRAWN BY D. YANOSH
SCALE AS SHOWN
ISSUE DATE 5/19/14

PROJECT
PHOTECH SITE DEVELOPMENT
1000 DRIVING PARK AVENUE
ROCHESTER, NEW YORK

TITLE OF DRAWING
DETAILS - 7

DRAWING NO.
C-530

FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 Details.dwg
DATE/TIME: 5/19/2014 12:43:22 PM
USER: Don Yanosh



TREE DIAMETER (DBH)	DISTANCE OF FENCING FROM FACE OF TREE TRUNK
LESS THAN 10"	6'
10" - 14"	10'
15" - 19"	12'
20" OR MORE	15'

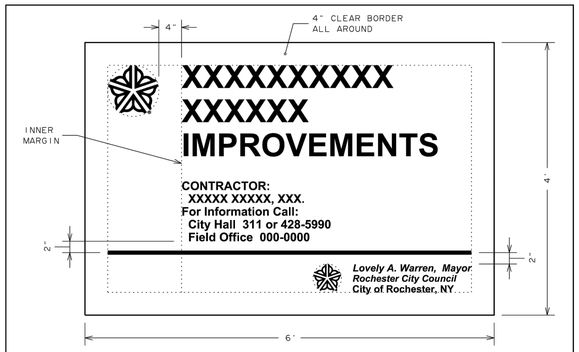
NOTE:

1. ALL TREES WITHIN THE PROJECT LIMITS THAT ARE TO REMAIN.ARE TO RECEIVE THIS TREATMENT.
2. DO NOT LEAVE CONSTRUCTION EQUIPMENT RUNNING (IDLING) UNDER TREE CANOPY.

CITY OF ROCHESTER

TREE PROTECTION

ISSUED 11-20-92 | NON-STANDARD
REVISED 7-1-93 | DWG.NO.S617-1



LAYOUT:

- CLEAR BORDER 4" ALL AROUND
- INNER MARGIN 4" BETWEEN UPPER CITY MARK AND TEXT
- UPPER CITY MARK TO BE 9" DIAMETER AND FLUSH WITH CLEAR BORDER
- "CONTRACTOR" AND "FOR INFORMATION CALL" TEXT TO BE FLUSH WITH INNER MARGIN
- LOWER CITY MARK TO BE 5" DIAMETER AND BOTTOM TO BE FLUSH WITH CLEAR BORDER
- RIGHT SIDE MAYOR'S SIGNATURE TO BE FLUSH WITH CLEAR BORDER AND TOP TO LINE UP WITH TOP OF LOWER CITY MARK

LETTERS:

- PROJECT TITLE:
  SWISS 721 CONDENSED BOLD
  4" LETTERS INITIAL CAP
  2" LINE SPACING
- CONTRACTOR AND FOR INFORMATION CALL:
  SWISS 721 CONDENSED BOLD
  1.50" LETTERS INITIAL CAP
  0.75" LINE SPACING
- MAYOR'S SIGNATURE:
  SWISS 721 CONDENSED BOLD ITALIC
  1.25" LETTERS INITIAL CAP
  0.625" LINE SPACING
- ROCHESTER CITY COUNCIL:
  SWISS 721 CONDENSED BOLD ITALIC
  1.1875" LETTERS INITIAL CAP
  0.625" LINE SPACING
- CITY OF ROCHESTER:
  SWISS 721 CONDENSED BOLD
  1.25" LETTERS INITIAL CAP

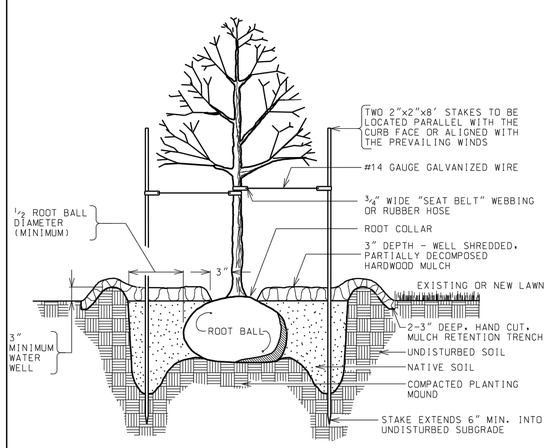
NOTES:

1. PRIOR TO SIGN FABRICATION, CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM CITY OF SIGN LAYOUT.
2. BOARD TO BE 6 FOOT x 4 FOOT x ¾ INCH PLYWOOD PAINTED WITH 2 COATS WHITE EXTERIOR ENAMEL PAINT.
3. BOTTOM OF SIGN BOARD IS TO BE POSTED MINIMUM OF 5 FEET ABOVE GROUND.
4. CITY MARK AND ALL TEXT TO BE COLORED TO MATCH PMS COLOR 287C BLUE.
5. LINE TO BE 30 POINT RULE.
6. SIGN CAN BE REDUCED PROPORTIONALLY TO 3 FOOT x 2 FOOT AS REQUIRED IN CONTRACT DOCUMENTS.

CITY OF ROCHESTER

PROJECT SIGN

ISSUED 5-7-01 | NON-STANDARD
REVISED 1-1-14 | DWG.NO.S999-2



CITY OF ROCHESTER

TREE PLANTING IN LAWN AREA

ISSUED 9-2-91 | STD. DWG.
REVISED 2-10-00 | NO. R611-1

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FINAL REVIEW

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DRAWN BY D. YANOSH
SCALE AS SHOWN
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ROCHESTER, NEW YORK

TITLE OF DRAWING
DETAILS - 8

DRAWING NO.
C-535

FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 Details.dwg
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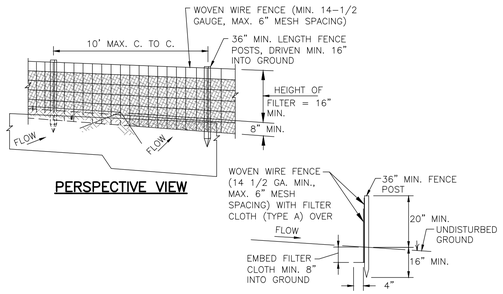


APPLICATION NOTES:

1. SILT FENCE SHALL BE USED IN SMALL AREAS WITH SHEET FLOW RUNOFF TO INTERCEPT SEDIMENT AND REDUCE RUNOFF VELOCITY.
2. MAXIMUM SLOPE LENGTH FOR SLOPES FLATTER THAN 5:1 SHALL BE 100 FEET.
3. MAXIMUM DRAINAGE AREA TO SILT FENCE SHALL NOT EXCEED 1/4 ACRE PER 100' OF FENCE.

CONSTRUCTION SPECIFICATIONS:

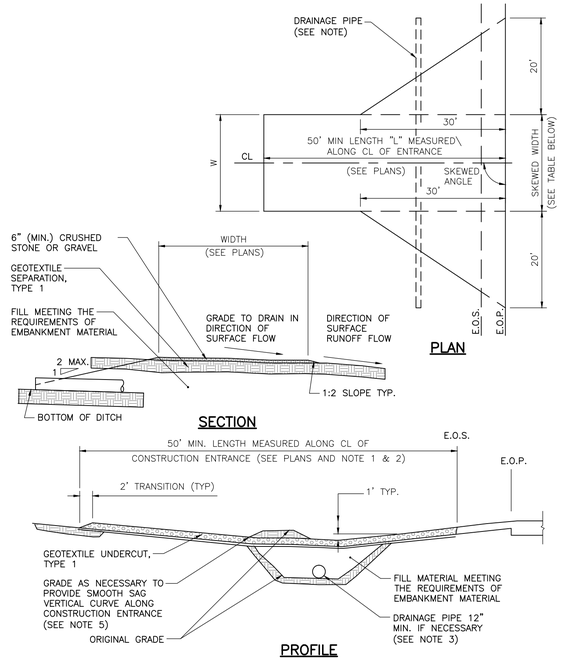
1. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS.
2. POSTS SHALL BE A MINIMUM 36" LONG AND SHALL BE TYPE T OR U STEEL WEIGHING NOT LESS THAN 1.0 LBS PER SQ.FT.; OR HARDWOOD WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
3. FILTER CLOTH SHALL BE FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL.
4. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
5. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 14 ½ GAUGE, 6" MAXIMUM MESH SPACING.
6. PREFABRICATED UNITS SHALL BE ENVIROFENCE OR APPROVED EQUAL.

MAINTENANCE NOTES:

1. INSPECT SILT FENCE ONCE A WEEK AND AFTER RAINFALLS, REMOVE AND REPLACE THE FABRIC WHEN BULGES DEVELOP IN THE SILT FENCE.
2. MAINTENANCE SHALL BE PERFORMED AS NEEDED, REPLACE ALL SILT FENCE EVERY 9-MONTHS OR AS DIRECTED BY THE PROJECT REPRESENTATIVE.
3. UPON STABILIZATION OF THE SITE REMOVE SILT FENCE SO AS NOT TO BLOCK STORM FLOW OR DRAINAGE.

SILT FENCE DETAIL

NO SCALE



APPLICATION NOTES:

A. THE PURPOSE OF A STABILIZED CONSTRUCTION ENTRANCE IS TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO ADJACENT STREETS.

CONSTRUCTION SPECIFICATIONS:

1. MODIFICATIONS MAY BE REQUIRED TO MATCH FIELD CONDITIONS AS DIRECTED BY THE PROJECT REPRESENTATIVE.
2. A 30' WASH AREA SHALL BE PROVIDED CENTERED ON LOW POINT OF DRIVEWAY SAG VERTICAL CURVE. ADDITIONAL GRADING MAY BE REQUIRED TO PROVIDE WASHING AREA. WASHING SHALL BE PERFORMED AS NEEDED TO PREVENT TRACKING SEDIMENT ONTO LOCAL ROADWAYS.
3. PROPOSED DRAINAGE PIPES SHALL BE SIZED WITH SUFFICIENT CAPACITY TO CARRY DITCH FLOWS. ALTERNATE WAYS OF TRANSPORTING DITCH DRAINAGE ACROSS CONSTRUCTION ENTRANCES MAY BE PROPOSED BY CONTRACTOR FOR APPROVAL BY THE PROJECT REPRESENTATIVE.
4. THE CONTRACTOR SHALL GRADE TO PREPARE AND SMOOTH ORIGINAL GROUND FOR PLACEMENT OF 0.50' OF #3 CRUSHED STONE ENTRANCE MATERIAL UP TO THE EDGE OF PAVEMENT.
5. THE CONTRACTOR SHALL RESTORE LAWN AND ROADWAY SHOULDER TO ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER.

MAINTENANCE NOTES:

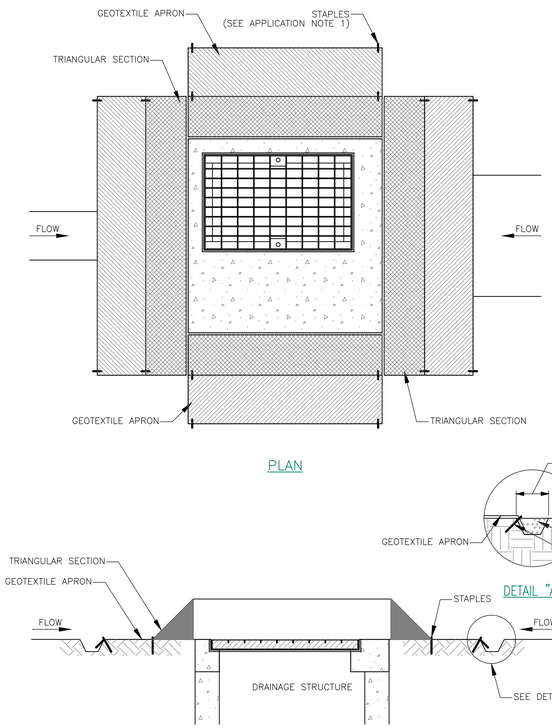
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS THE TRACKING OF SEDIMENT ONTO THE CAMPUS ROADWAYS. THIS CAN BE DONE BY PROVIDING TOP DRESSING OF ADDITIONAL AGGREGATE.
2. ALL SEDIMENT SPILLED, DROPPED, OR WASHED ONTO THE CAMPUS OR PUBLIC ROADWAYS SHOULD BE REMOVED IMMEDIATELY.

SKEWED ENTRANCE LAYOUT WIDTHS (W)					
	SKEW ANGLE (°)				
ENTRANCE TYPE	60	75	90	105	120
ONE-WAY	14.0	12.5	12.0	12.5	14.0
TWO-WAY	28.0	25.0	24.0	25.0	28.0

NOTE:
FOR CORNER ANGLES NOT SHOWN IN TABLE, SEE NYSDOT "POLICY AND STANDARDS FOR ENTRANCES TO STATE HIGHWAYS, FEBRUARY 1998", MINOR COMMERCIAL DRIVEWAYS.

TYPICAL STABILIZED CONSTRUCTION ENTRANCE DETAIL

NO SCALE

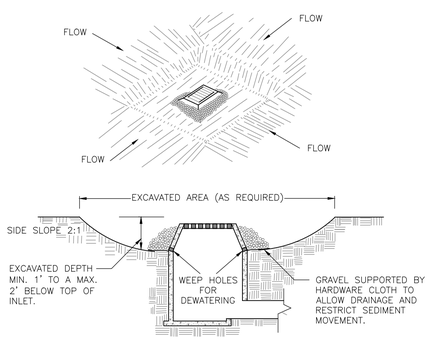


NOTES:

1. SECURE THE ENDS OF THE APRON FOR THE PREFABRICATED DRAINAGE STRUCTURE INLET PROTECTION WITH STAPLES AS DETAILED IN THE PLAN VIEW OR AS RECOMMENDED BY THE MANUFACTURER'S LITERATURE.
2. MEASURES SHALL BE INSPECTED EVERY SEVEN (7) DAYS, AFTER EACH RAINFALL OF ½" OR MORE WITHIN A 24 HOUR PERIOD, OR DAILY DURING PROLONGED RAINFALL. MEASURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
3. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
4. WEEP HOLES SHALL BE PROTECTED BY GEOTEXTILE AND STONE.
5. UPON STABILIZATION OF CONTRIBUTING AREA, WEEP HOLES SHALL BE SEALED AND GEOTEXTILE REMOVED.
6. MAINTENANCE SHALL INCLUDE REPAIR AND RE-BUILDING INLET PROTECTION AS NEEDED TO ENSURE THAT IT FUNCTIONS AS ORIGINALLY INTENDED.
7. INLET PROTECTION - EXCAVATED, FOR THIS PROJECT, SHALL BE INSTALLED AT DRAINAGE LOW POINTS AS SHOWN ON THE PLANS AND AS DETERMINED BY THE ENGINEER.

DRAINAGE STRUCTURE INLET PROTECTION - TEMPORARY (PREFABRICATED)

NO SCALE



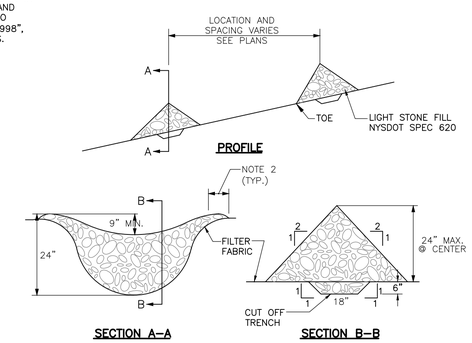
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

EXCAVATED DROP INLET PROTECTION

NO SCALE



APPLICATION NOTES:

1. CHECK DAMS SHALL BE USED TO REDUCE EROSION IN DRAINAGE CHANNEL BY RESTRICTING THE VELOCITY OF FLOW IN THE CHANNEL.
2. MAXIMUM DRAINAGE AREA ABOVE THE CHECK DAM SHALL NOT EXCEED 2-ACRES.

CONSTRUCTION SPECIFICATIONS:

1. STONE SHALL BE PLACED ON FILTER FABRIC FOUNDATION.
2. EXTEND THE STONE A MINIMUM OF 1.5-FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
3. PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
4. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAINTENANCE NOTES:

1. INSPECT CHECK DAMS ONCE A WEEK AND AFTER RAINFALLS. REMOVE SILT FROM BEHIND DAM AS NEEDED TO PERMIT FLOW THROUGH THE DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM.
2. INSTALL STONE LINER IN CHANNEL UPSTREAM OF CHECK DAM IF SIGNIFICANT EROSION OCCURS.
3. REPLACE STONES AS NEEDED TO MAINTAIN THE DESIGN CROSS SECTION OF THE STRUCTURES.
4. UPON STABILIZATION OF THE SITE REMOVE CHECK DAMS SO AS NOT TO BLOCK STORM FLOW OR DRAINAGE.

CHECK DAM DETAIL

NO SCALE

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FINAL REVIEW

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1000 DRIVING PARK AVENUE
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TITLE OF DRAWING
DETAILS - 9

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C-540

FILE NAME: H:\Projects\134024-Photech_Site_Dev\Eng\CAD\CUT\134024 Details.dwg
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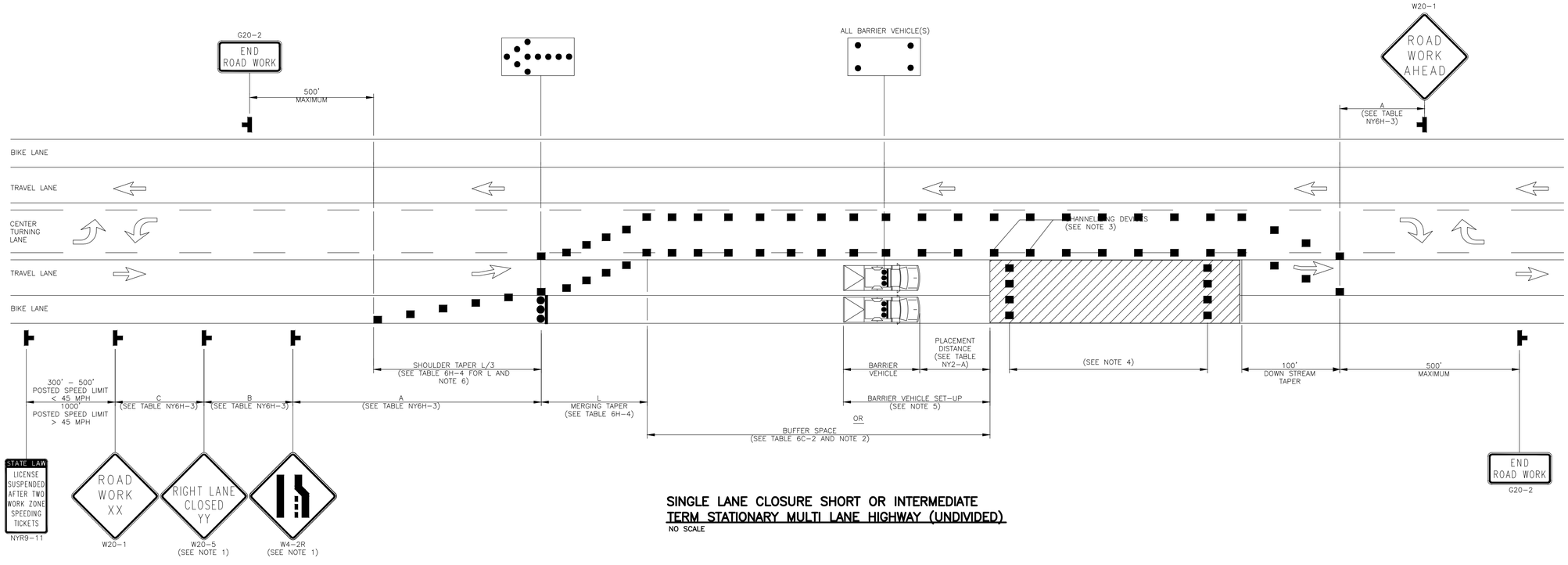

SINGLE LANE CLOSURE SHORT OR INTERMEDIATE TERM STATIONARY MULTI LANE HIGHWAY (UNDIVIDED)

NO SCALE

NOTES:

1. LEFT LANE CLOSURES ARE SYMMETRICAL TO RIGHT LANE CLOSURES.
2. SUBSTITUTE LEFT LANE CLOSED SIGN (W20-5) AND THE CORRESPONDING LANE ENDS SIGN (W4-2L).
3. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
4. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
5. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
6. FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES NY1-A AND NY2-A ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
7. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND TO DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVELED WAY.

LANE WIDTHS:

1. I. UNLESS AUTHORIZED BY THE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: FREEWAYS AND/OR EXPRESSWAYS IS 11'. THE MINIMUM LANE WIDTH FOR ALL OTHER TYPES OF ROADWAYS IS 10'.
2. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE ENGINEER, A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF PERFORMING ANY WORK THAT RESULTS IN THE REDUCED WIDTH OF AN EXISTING ROADWAY, SO THAT THE ENGINEER MAY NOTIFY THE REGIONAL PERMIT ENGINEER IN A TIMELY MANNER.

GENERAL NOTES:

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

ACTIVITY AREA:

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

SIGNS:

1. THE LOCATIONS OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.
2. ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.
3. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
4. ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF MULTI-LANE DIVIDED HIGHWAYS, MULTI-LANE RAMPS, AND ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
5. SIGNS MOUNTED ON THE MEDIAN OF DIVIDED HIGHWAYS WHERE MEDIAN BARRIER IS IN PLACE MAY BE MOUNTED ON THE BARRIER WITH A SADDLE TYPE BRACKET. LAYING THE SIGN DOWN IN A HORIZONTAL POSITION IS NOT PERMITTED.
6. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD. ANY CHANGES TO THE DIMENSIONS SHALL BE APPROVED BY THE REGIONAL DIRECTOR OR BY HIS/HER DESIGNEE. NYR9-12 MAY BE USED IN PLACE OF NYR9-11.

CHANNELIZING DEVICES:

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

PUBLIC ACCESS:

1. PROPERTY OWNERS WHOSE DRIVEWAYS WILL BE MADE INACCESSIBLE SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS PRIOR TO RESTRICTING USE OF THE DRIVEWAY. FOR MULTIPLE ACCESS PROPERTIES, AT LEAST ONE DRIVEWAY SHALL BE OPEN AT ALL TIMES. ACCESS SHALL BE RESTORED TO ALL DRIVEWAYS AS SOON AS POSSIBLE.
2. SUITABLE RAMPS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.

LANE CLOSURES:

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

BARRIER/SHADOW VEHICLES:

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

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ROCHESTER, NEW YORK

TITLE OF DRAWING
MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS

DRAWING NO.
C-550