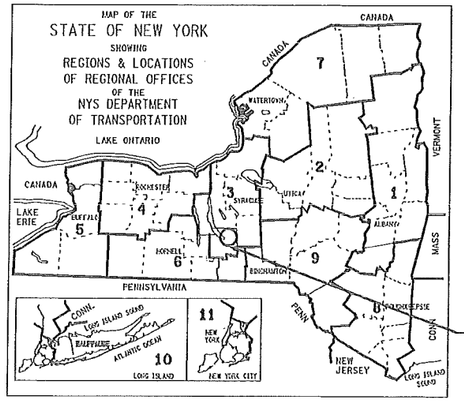


STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109
TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS

F. A. PROJECT

130 SHEETS

TOMPKINS COUNTY CONTRACT

STANDARD SHEETS

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (METRIC UNITS) OF MAY 1, 2008, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

CONTRACTOR'S NAME _____

AWARD DATE _____

COMPLETION DATE _____

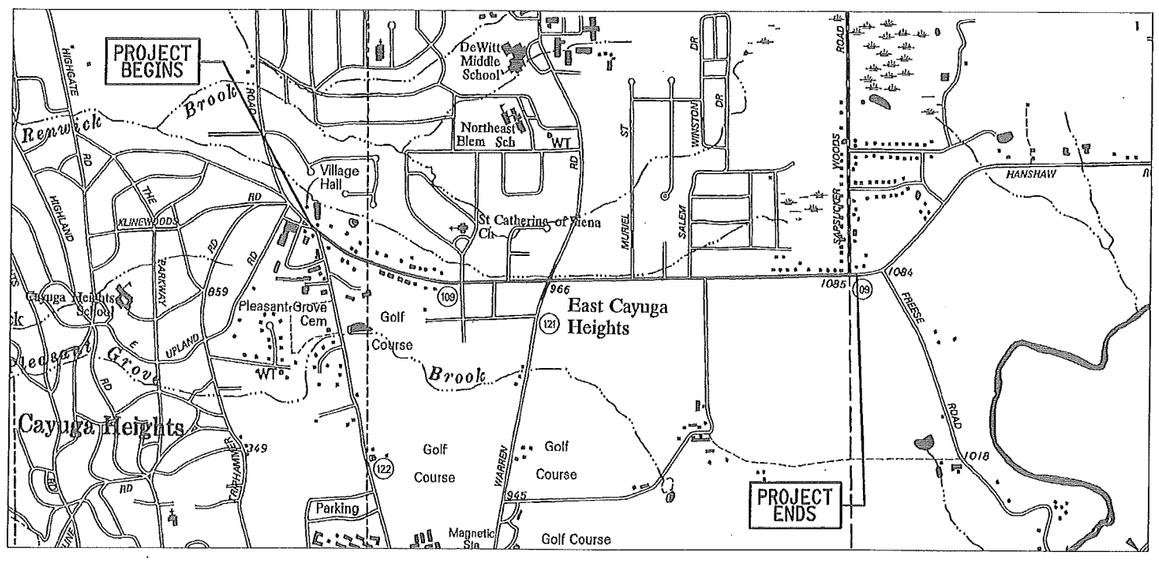
FINAL ACCEPTANCE DATE _____

REGIONAL DIRECTOR _____

ENGINEER IN CHARGE _____

FINAL COST TOTAL _____

FISCAL SHARE COST(S)



PROJECT LOCATION

RECOMMENDED BY
MARK R. BUTCHER, P.E.
FISHER ASSOCIATES
LIC. NO. 076249
5/14/2013 DATE

APPROVED BY
COUNTY HIGHWAY DIRECTOR
JEFFREY SMITH
5/14/13 DATE

HANSHAW ROAD RECONSTRUCTION			
PLEASANT GROVE ROAD TO SAPSUCKER WOODS ROAD			
TOWN OF ITHACA, TOMPKINS COUNTY			
P.I.N. 3753.25			
FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
1	N.Y.	1	130
FEDERAL AID PROJECT NO.			
CAPITAL PROJECT IDENTIFICATION NO.			

INDEX ON SHEET NO. 2

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY M. BUTCHER ESTIMATED BY R. BENNET CHECKED BY T. DAVIS DRAFTED BY M. BUTCHER

FILE NAME =
DATE/TIME = 5/14/2013
USER = Mar-08

457 Brooktondale Rd, Brooktondale, NY 14817, USA

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		2	130

HANSHAW ROAD RECONSTRUCTION

TOMPKINS COUNTY

P.I.N. 3753.25 B.I.N.

INDEX

SHEET NUMBER	DESCRIPTION	DRAWING NUMBER
1	TITLE SHEET	CS-1
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9	GENERAL NOTES	GN-1
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11-16	SURVEY CONTROL PLANS	SC-1 TO SC-6
17-22	TRAFFIC CONTROL PLAN	TCP-1 TO TCP-6
23-26	MAINTENANCE JURISDICTION PLANS	MJ-1 TO MJ-4
27-30	DRAINAGE STRUCTURE TABLES	DST-1 TO DST-4
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32-34	MISCELLANEOUS TABLES	MT-1 TO MT-3
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95	LANDSCAPE DETAILS	LD-1
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114	TRAFFIC SIGNAL PLANS	TSP-1
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ALIGNMENT

ABBR.	DESCRIPTION
AH	AHEAD
AZ	AZIMUTH
BK	BACK
℄	BASELINE
BRG	BEARING
℄	CENTERLINE
CS	CURVE TO SPIRAL
e	SUPERELEVATION RATE (CROSS SLOPE)
EQ	EQUALITY
EXT	EXTERNAL
HCL	HORIZONTAL CONTROL LINE
HSD	HEADLIGHT SIGHT DISTANCE
L	LENGTH OF CIRCULAR CURVE
LS	LENGTH OF SPIRAL
LVC	LENGTH OF VERTICAL CURVE
E	CENTER CORRECTION OF VERTICAL CURVE
ML	MAIN LINE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
POL	POINT ON LINE
PSD	PASSING SIGHT DISTANCE
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
SC	SPIRAL TO CURVE
SSD	STOPPING SIGHT DISTANCE
ST	SPIRAL TO TANGENT
STA	STATION
T	TANGENT LENGTH
TGL	THEORETICAL GRADE LINE
TS	TANGENT TO SPIRAL
VC	VERTICAL CURVE

UTILITIES

ABBR.	DESCRIPTION
E	ELECTRIC
EMH	ELECTRIC MANHOLE
G	GAS
GP	GUY POLE
GSB	GAS SERVICE BOX (HOUSE LINE)
GV	GAS VALVE (MAIN LINE)
HYD	HYDRANT
LP	LIGHT POLE
LPG	LOW PRESSURE GAS
PP	POWER POLE
SA	SANITARY SEWER
SMH	SANITARY MANHOLE
ST	STORM SEWER
T	TELEPHONE
TCB	TRAFFIC CONTROL BOX
TELBOX	TELEPHONE BOX
TEL P	TELEPHONE POLE
TMH	TELEPHONE MANHOLE
CTV	CABLE TELEVISION
W	WATER
WSB	WATER SERVICE BOX (HOUSE LINE)
WV	WATER VALVE (MAIN LINE)

TOPOGRAPHY (DRAINAGE)

ABBR.	DESCRIPTION
BB	BOTTOM OF BANK (STREAM)
BC	BOTTOM OF CURB
BO	BOTTOM OF OPENING
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CIP	CAST IRON PIPE
℄ STRM	CENTERLINE OF STREAM
CMP	CORRUGATED METAL PIPE
CP	CONCRETE PIPE
CSP	CORRUGATED STEEL PIPE
CULV	CULVERT
DIA	DIAMETER
DMH	DRAINAGE MANHOLE
DS	DRAINAGE STRUCTURE PIPE

TOPOGRAPHY (DRAINAGE) CON'T

ABBR.	DESCRIPTION
D'XING	DITCH CROSSING
EHW	EXTREME HIGH WATER
EL	ELEVATION
ELEV	ELEVATION
ELW	EXTREME LOW WATER
ES	END SECTION
HW	HEADWALL
INV	INVERT
MH	MANHOLE
MHW	MEAN HIGH WATER
OHW	ORDINARY HIGH WATER
OLW	ORDINARY LOW WATER
RCP	REINFORCED CONCRETE PIPE
TB	TOP OF BANK (STREAM)
TC	TOP OF CURB
TG	TOP OF GRATE
VCP	VITRIFIED CLAY PIPE
SICPP	SMOOTH INTERIOR CORRUGATED PE

TOPOGRAPHY (MISCELLANEOUS)

ABBR.	DESCRIPTION
ABUT	ABUTMENT
AOBE	AS ORDERED BY ENGINEER
ASPH	ASPHALT
BDY	BOUNDARY
BLDG	BUILDING
BM	BENCH MARK
CC	CENTER TO CENTER
CONC	CONCRETE
CONST	CONSTRUCTION
CR	COUNTY ROAD
D	DEED DISTANCE
DM	DIRECT MEASUREMENT
DWY	DRIVEWAY
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
FEE	FEE ACQUISITION
FEE WO/A	FEE ACQUISITION WITHOUT ACCESS
FP	FENCE POST
FD	FOUNDATION
FL	FENCE LINE
GAR	GARAGE
GR	GRAVEL
HO	HOUSE
HWY	HIGHWAY
IP	IRON PIN OR IRON PIPE
MB	MAILBOX
MON	MONUMENT
N&W	NAIL AND WASHER
OG	ORIGINAL GROUND
O/H	OVERHEAD
P	PARCEL
PAV'T	PAVEMENT
PE	PERMANENT EASEMENT
PED POLE	PEDESTRIAN POLE
⅊	PROPERTY LINE
POR	PORCH
RR	RAILROAD
RTE	ROUTE
ROW	RIGHT OF WAY
RW	RETAINING WALL
SH	STATE HIGHWAY
SHLDR	SHOULDER
SPK	SPIKE
ST	STREET
STK	STAKE
STY	STORY
SW	SIDEWALK
TE	TEMPORARY EASEMENT
TO	TEMPORARY OCCUPANCY
U/G	UNDERGROUND
WW	WING WALL

SUBSURFACE EXPLORATION

ABBR.	DESCRIPTION
REPLACE ABBREVIATION "AB" WITH:	
AH	HAND AUGER
CP	CONE PENETROMETER
DA	60 mm CASED DRILL HOLE
DM	DRILLING MUD
DN	100 mm CASED DRILL HOLE
FH	HOLLOW FLIGHT AUGER
PA	POWER AUGER
PH	PROBE
PT	PERCOLATION TEST HOLE
RP	25 mm SAMPLER (RETRACTABLE PLUG)
	TO BE DEFINED AT THE TIME OF EXPLORATION
SP	SEISMIC POINT
TP	TEST PIT
ABBREVIATION "C" IN CATAGORIES: DA, DM, DN, AND FH WITH:	
B	BRIDGE
C	CUT
D	DAM
F	FILL
K	CULVERT
W	WALL
X	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ETIMATE OF QUANITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
m	M	METER
m^2	SQM	SQUARE METER
m^3	CM	CUBIC METER
km	KM	KILOMETER
ha	HA	HECTARE
kg	KG	KILOGRAM
† OR Mg*	MT	METRIC TON
L	L	LITER

* THE METRIC TON IS EQUIVALENT TO ONE MEGAGRAM (Mg)

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INDEX AND ABBREVIATIONS

FISHER ASSOCIATES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
REGION 3

DOCUMENT NAME	DATE	DRAWING NO.
37325a_abb.dgn	DECEMBER 2012	ABB-1

DESIGN SUPERVISOR C. SMITH JOB MANAGER C. SMITH DESIGNED BY J. VIDETTI CHECKED BY C. SMITH

ESTIMATED BY J. VIDETTI DRAFTED BY J. VIDETTI CHECKED BY C. SMITH

FILE NAME = H:\Projects\051004-Hanshaw_Rd\Eng\CUT\Planset\ABB\37325a_abb.dgn
DATE/TIME = 5/14/2013 9:15:58 AM
USER = MarkB

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		3	130

HANSHAW ROAD RECONSTRUCTION

TOMPKINS COUNTY

P.I.N. 3753.25 | B.I.N.

ALIGNMENT

STYLE	NAME	DESCRIPTION
	AC	CONTROL (CENTERLINE)
	AD_P	DETOUR
	AT_P	TRANSITION CONTROL

BRIDGE

STYLE	NAME	DESCRIPTION
	BR	RAIL
	BSHT	SHEET PILING

CONTROL

STYLE	NAME	DESCRIPTION
	CB	BASELINE
	CBPR	BASELINE, PROJECTION

DRAINAGE

STYLE	NAME	DESCRIPTION
ST ST	DCP	CULVERT PIPE
	DCP_P	CULVERT PIPE (DIR)
	DDG_P	DITCH, GRASS LINED
	DDP_P	DITCH, PAVED INVERT
	DDS_P	DITCH, STONE LINED
	DFL_P	FLOW LINE
	DSSD	SLOTTED DRAIN

ENVIRONMENTAL

STYLE	NAME	DESCRIPTION
HAY/SI HAY/SI	EBLHS	BALE, HAY/STRAW
	ECT	CURTAIN, TURBIDITY
	EDMC	DAM, COFFER TYPE
	EDMEC_P	DAM, EARTHEN, CHECK
	EDMPC_P	DAM, PREFAB, CHECK
	EDMSC_P	DAM, STONE, CHECK
	EFNS	FENCE, SILT
	EFNSV	FENCE, SILT & VEGETATION
	EFNV	FENCE, VEGETATION
AA	EWAA_P	WETLAND, ADJACENT AREA
FW	EWF	WETLAND, FEDERAL
SW FW	EWFS	WETLAND, FEDERAL AND STATE
WM	EWM	WETLAND, MITIGATION AREA
SW	EWS	WETLAND, STATE

SIGNS

STYLE	NAME	DESCRIPTION
	SBLB	BILLBOARDS
	SM	MULTIPLE POST
	SSO	STRUCTURE, OVERHEAD
	SSOC	STRUCTURE, OVHD. CANTILEVER

LANDSCAPE

STYLE	NAME	DESCRIPTION
	LABL	AREA, BRUSH LINE
	LAHR	AREA, HEDGE ROW
	LAPB	AREA, PLANTING BED
	LAWA	AREA, WOODED AREA OUTLINE
	LAWE	AREA, WATERS EDGE
	LCUT_P	CUT LIMIT
	LFILL_P	FILL LIMIT
	LFNC	FENCE
	LTRC	TREE ROW, CONIFEROUS
	LTRD	TREE ROW, DECIDUOUS
	LWH	WALL, H PILE
	LWR	WALL, RETAINING
	LWS	WALL, STONE

ROW MAPPING

STYLE	NAME	DESCRIPTION
	MDL	DEED LINE
PE	MEE	EASEMENT, EXISTING
PE	MEP_P	EASEMENT, PERMANENT
APE	MEPA_P	EASEMENT, PERMANENT, APPROX.
TE	MET_P	EASEMENT, TEMPORARY
ATE	META_P	EASEMENT. TEMPORARY, APPROX.
FEE	MF_P	FEE ACQUISITION, W/ ACCESS
AFEE	MFA_P	FEE ACQUISITION, APPROXIMATE
	MFS_P	FEE ACQUISITION, SHAPE
FEE W/OA	MFWOA_P	FEE ACQUISITION, W/O ACCESS
HB	MHB	HIGHWAY BOUNDARY
AHB	MHBA	HIGHWAY BOUNDARY, APPROX.
	MHBW	HWY BOUNDARY, FACE OF WALL
HB W/OA	MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS
	MJC	JURISDICTION, CITY
	MJCY	JURISDICTION, COUNTY
	MJHD	JURISDICTION, HISTORIC DISTRICT
	MJLL	JURIS., (GREAT, MILITARY) LOT LINE
	MJN	JURISDICTION, NATION
	MJPB	JURISDICTION, PUBLIC LANDS
	MJS	JURISDICTION, STATE
	MJT	JURISDICTION, TOWN
	MJV	JURISDICTION, VILLAGE
L	MPL	PROPERTY LOT LINE
AL	MPLA	PROPERTY LOT LINE, APPROXIMATE
Z	MSL	SUB LOT LINE

ROADWAY

STYLE	NAME	DESCRIPTION
	RG	GUIDE RAIL, MISCELLANEOUS
	RGB	GUIDE RAIL, BOX BEAM
	RGBM	GUIDE RAIL, BOX BEAM, MEDIAN
	RGC	GUIDE RAIL, CABLE
	RGCB	GUIDE RAIL, CONCRETE BARRIER
	RGP_P	GUIDE POST
	RGW	GUIDE RAIL, W BEAM
	RGWM	GUIDE RAIL, W BEAM, MEDIAN
	RPB	PARKING BUMPER
	RRC	RAIL ROAD, CATENARY
	RRER	RAIL ROAD, 3RD RAIL
	RRPLS_P	RAIL, PHOTO, LARGE SCALE
	RRPSS	RAIL, PHOTO, SMALL SCALE
	RRS	RUMBLE STRIP
	RRSLS_P	RAIL, SURVEY, LARGE SCALE
	RRSSS	RAIL, SURVEY, SMALL SCALE

STRIPING

STYLE	NAME	DESCRIPTION
	STB•	BROKEN LINE
	STDB•	DOUBLE BROKEN LINE
	STDL•	DOTTED LINE LONG
	STDS•	DOTTED LINE SHORT
	STFB•	FULL BARRIER LINE
	STH•	HATCH LINE
	STPB•	PARTIAL BARRIER LINE
	STRCT	ROUNDABOUT, CAT TRACKS
	STRYL	ROUNDABOUT, YIELD LINE
	STSB	STOP BAR
	STSE	SOLID, EDGE
	STXL•	X WALK, LADDER LINE
		• = W (WHITE) OR Y (YELLOW)

TRAFFIC CONTROL

STYLE	NAME	DESCRIPTION
	TCSW	SIGNAL, SPAN WIRE

TRAFFIC MAINTENANCE

STYLE	NAME	DESCRIPTION
	TMBCD_P	BARRICADES
	TMBCDL_P	BARRICADES, LIGHTED
	TMBT_P	BARRIER, TEMPORARY
	TMBTL_P	BARRIER, TEMPORARY, LIGHTED
	TMDB_P	DEVICE, BARRELS
	TMDBL_P	DEVICE, BARRELS, LIGHTED
	TMDC_P	DEVICE, CONES

UTILITIES

STYLE	NAME	DESCRIPTION
C	UC	CONDUIT, UNDERGROUND
]C[	UCH	CONDUIT, HANGING
OC	UCO	CONDUIT, OVERHEAD
E	UE	ELECTRIC LINE, UNDERGROUND
]E[	UEH	ELECTRIC LINE, HANGING
OE	UEO	ELECTRIC LINE, OVERHEAD
OET	UETO	ELECTRIC TRANSMISSION, OVERHEAD

UTILITIES CONT'D.

STYLE	NAME	DESCRIPTION
	UESS	ELECTRIC, SUBSTATIONS
FO	UFO	FIBER OPTIC, UNDERGROUND
]FO[	UFOH	FIBER OPTIC, HANGING
OFO	UFOO	FIBER OPTIC, OVERHEAD
G	UG	GAS, UNDERGROUND
]G[	UGH	GAS, HANGING
OG	UGO	GAS, OVERHEAD
IC	UIC	INFORM CABLE, UNDERGROUND
]IC[	UICH	INFORM CABLE, HANGING
O	UO	OIL LINE, UNDERGROUND
]O[	UOH	OIL LINE, HANGING
	UPBP	POLE, BRACE, PUSH BRACE
	UPBW	POLE, GUY WIRE
SA	USA	SANITARY SEWER, UNDERGROUND
]SA[	USAH	SANITARY SEWER, HANGING
SAF	USAF	SANITARY SEWER, FORCE MAIN, UGND
]SAF[	USAFH	SANITARY SEWER, FORCE MAIN, HANG
T	UT	TELEPHONE, UNDERGROUND
]T[	UTH	TELEPHONE, HANGING
OT	UTO	TELEPHONE, OVERHEAD
CTV	UTV	CABLE TV, UNDERGROUND
]CTV[	UTVH	CABLE TV, HANGING
OCTV	UTVO	CABLE TV, OVERHEAD
UU	UUU	UNKNOWN, UNDERGROUND
]UU[	UUH	UNKNOWN, HANGING
OUU	UUO	UNKNOWN, OVERHEAD
W	UW	WATER LINE, UNDERGROUND
]W[	UWH	WATER LINE, HANGING
OW	UWO	WATER LINE, OVERHEAD

1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).
2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).
3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.
4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.40 MM ON B SIZE DRAWINGS).
5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS.
6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE | DATE

LEGEND

FISHER ASSOCIATES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
REGION 3

DOCUMENT NAME	DATE	DRAWING NO.
37325a leg.dgn	DECEMBER 2012	LEG-1

DESIGN SUPERVISOR S. RANSBOTTOM JOB MANAGER S. RANSBOTTOM DESIGNED BY M. KROLL CHECKED BY M. BUTCHER

ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = H:\Projects\051004-Hanshaw_Rd\Eng\CUTPlanset\LEG37325a_leg.dgn
DATE/TIME = 5/14/2013 9:16:00 AM
USER = MarkB

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		4	130

HANSHAW ROAD RECONSTRUCTION

TOMPKINS COUNTY

P.I.N. 3753.25 B.I.N.

ALIGNMENT

CELL	NAME	DESCRIPTION
	ACC	CENTER OF CURVATURE
	ACOGO	COGO
	ACS	CURVE TO SPIRAL
	ADPI_P	DETOUR, POINT OF INTERSECT.
	ADPL_P	DETOUR, POINT ON LINE
	AEQN	EQUATION
	AEQNAHD	EQUATION AHEAD
	AEQNBK	EQUATION BACK
	AEVT	EVENT STATION
	APC	POINT OF CURVATURE
	APCC	POINT OF COMPOUND CURVATURE
	API	POINT OF INTERSECTION
	APOB	POINT OF BEGINNING
	APOC	POINT OF CURVATURE
	APOE	POINT OF END
	APOL	POINT ON LINE
	APOS	POINT ON SPIRAL
	APOT	POINT ON TANGENT
	APOVC	POINT ON VERTICAL CURVE
	APOVT	POINT ON VERTICAL TANGENT
	APORC	POINT ON REVERSE CURVE
	APT	POINT OF TANGENCY
	APVC	POINT OF VERTICAL CURVATURE
	APVCC	POINT OF VERT. CMPND CURVE
	APVI	POINT OF VERT. INTERSECTION
	APVRC	POINT OF VERT. REVERSE CURVE
	APVT	POINT OF VERTICAL TANGENCY
	ASC	SPIRAL TO CURVE
	ASPI	SPIRAL POINT OF INTERSECTION
	ASTS	SPIRAL TO SPIRAL
	AST	SPIRAL TO TANGENT
	ATS	TANGENT TO SPIRAL
	AVEVT	VERTICAL EVENT POINT
	AVHIGH	VERTICAL HIGH POINT
	AVLOW	VERTICAL LOW POINT

CONTROL

	CBP	BASELINE, POINT
	CBPOL	BASELINE, POINT ON LINE
	CBSP	BASELINE, SPUR POINT
	CBTP	BASELINE, TIE POINT
	CPBM	BENCHMARK
	CPH	POINT, HORIZ. PHOTOGRAMMETRY
	CPSM	POINT, SURVEY MARKER, PERM.
	CPSV	POINT, VERT., PHOTOGRAMMETRY

BRIDGE

CELL	NAME	DESCRIPTION
	BSC	BRIDGE, SCUPPER

DRAINAGE

	DINV	INVERT
	DS	STRUCTURE, RECTANGULAR
	DSI	STRUCTURE, INVERT
	DSM	STRUCTURE, MANHOLE
	DSMTXX_P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = 48, 60, 72, 96
	DSR	STRUCTURE, ROUND
	DST"X"CB P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R
	DST"X" P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U

ENVIRONMENTAL

CULV	EIOP_P	STR., INLET, OUTLET PROT.
GB	EIPGB_P	STR., INLET PROT., GRAVEL BAG
H/S	EIPHS_P	STR., INLET PROT., HAY/STRAW
PRFB	EIPP_P	STR., INLET PROT., PREFAB.
SF	EIPSF_P	STR., INLET PROT., SILT FENCE
	ERCB	RISER, CONCRETE BOX
	ETRS_P	TRAP, SEDIMENT
	EWFG	WETLAND FLAG

GEOTECHNICAL

	GDH	DRILL HOLE

LANDSCAPE

CELL	NAME	DESCRIPTION
	LELS	ELEVATION, SPOT
	LFP	FLAG POLE
	LMB	MAILBOX
	LPB	PAPER BOX
	LPST	POST, SINGLE
	LRB	ROCK, BOULDER
	LSHC	SHRUB, CONIFEROUS
	LSHD	SHRUB, DECIDUOUS
	LTC	TREE, CONIFEROUS
	LTD	TREE, DECIDUOUS
	LTS	TREE, STUMP
	LTW P	TREE, WELL OR WALL
	LUKP	UNKNOWN POINT

ROADWAY

CELL	NAME	DESCRIPTION
	RES P	ELEVATION, SPOT
	RGA	GUIDE RAIL, ANCHOR
	RGP	GUIDE POST, SINGLE

SIGNS

	S	SINGLE POST
	S P	SINGLE POST, PROPOSED
	SB P	BACK TO BACK, PROPOSED
	SDEL	DELINEATORS
	SPM	PARKING METER
RFM	SRM	REFERENCE MARKERS
	SRSC3	SHLD, CTY, 123 DIG.
	SRSC4	SHLD, CTY, 4 DIG.
	SRSCT2	SHLD, CTY TOUR, 1-2 DIG.
	SRSCT4	SHLD, CTY TOUR, 3-4 DIG.
	SRSI	SHLD, INTERSTATE
	SRSN2	SHLD, NATIONAL, 2 DIG.
	SRSN3	SHLD, NATIONAL, 3 DIG.
	SRSS2	SHLD, STATE, 2 DIG.
	SRSS3	SHLD, STATE, 3 DIG.
	SRSS4	SHLD, STATE, 4 DIG.

TRAFFIC

	TCBJ	BOX, JUNCTION
T	TCBP	BOX, PULL BOX
	TCBS	BOX, SPLICE
C	TCMC	MICROCOMPUTER CABINET
	TCPP	PED POLE
	TCSH	SIGNAL HEADS
	TCSP	SIGNAL POLE

ITS

CELL	NAME	DESCRIPTION
	IANT P	ANTENNAS
AD	IASCTS	ACCOU. SPEED/COUNT SNSR.S
P	ICABPAD	CABINET & PAD
	ICCTV	CCTV SITE
CDPD	ICDPD	CDPD TRANSCEIVER
	ICELLT	CELL PHONE TOWER
	ICJB	CONDUIT JACK OR BORING
	ICNTLCAB	CONTROLLER CABINET
C	ICPB	COMMUNICATION PULL BOX
	ICTD	CONDUIT TURNING DOWN
	ICTU	CONDUIT TURNING UP
C	ICVTRT	COMM. VEH. ROAD TRANSCVR.
	IDEFAULT	DEFAULT
EZ	IEZR	EZ-PASS READER
EZ-T	IEZTR	TRANSMITTAL READER
XC	IFOXCAB	FIBER OPTIC X-CONNECT CAB.
	IFUSSPL	FUSION SPLICE
	IHARADV	HAR ADVISORY SIGN
	IHARST	HAR SITE
LC	ILC	LOAD CENTER
	IMECSPL	MECHANICAL SPLICE
PM	IMSCS	PORT. SPEED & COUNT SENS
M	IMSCTS	MICRO SPEED & COUNT SNSR.
M	IMT	MICROWAVE TRANm²CEIVER
VMS	IOVHVMS	PERM. OVERHEAD VMS
PA	IPASCS	PORT. ACC. SPD & CNT SNSR.
	IPEDS	PEDESTRIAN SIGNAL HEAD
	IPSS	PAVEMENT SURFACE SNSR.
PVMS	IPVMS	PERM. VMS
RM	IRM	RAMP METER
RWIS	IRWIS	RDWY WEATHER INFO. SNSR.
	ISP	SOLAR PANEL
SS	ISST	SPREAD SPECT. TRANSCEIVER
TC	ITDB	TELEPHONE DEMARCATION BLK
TP	ITP	SUBSURFACE TEMP. PROBE
	IVTRT	VEHICLE TO RDWY TRANCEIVER
WIM	IWIMD	WEIGHT IN MOTION DETECTOR
WVR	IWVR	WIRELESS VIDEO REPEATER
V	IWVRC	WIRELESS VIDEO RECEIVER
V	IWVTT	WIRELESS VIDEO TRANSMITTER

UTILITIES

CELL	NAME	DESCRIPTION
E	UEB	ELECTRIC, BOX
E	UEM	ELECTRIC, METER
E	UEMH	ELECTRIC, MANHOLE
	UEPT	ELECTRIC, POLE, TRANS.
G	UGM	GAS, METER
G	UGMH	GAS, MANHOLE
	UGLM	GAS, LINE MARKER
FP	UGP	GAS/FUEL PUMP
	UGV	GAS, VALVE
	UGVT	GAS, VENT
	ULP	LIGHTING, POLE
	ULPM	LIGHTING, POLE, MEDIAN
	ULPP	LIGHTING, POLE, PED.
	UMFC	MISC. FILLER CAP
	UOLM	OIL, LINE MARKER
	UP	POLE, WITH UTILITY
	UPD	POLE, DEAD (NO UTILITY)
	UPL	POLE, WITH LIGHT
S	USMH	SANITARY SEWER MANHOLE
P	UTB	TELEPHONE, BOOTH
	UTLM	TELEPHONE, LINE MARKER
T	UTMH	TELEPHONE, MANHOLE
	UTVLM	CABLE TV, LINE MARKER
C	UTVPB	CABLE TV, PULL BOX
	UUB	UNKNOWN, BOX
	UUJB	UNKNOWN, JUNCTION BOX
	UUMH	UNKNOWN, MANHOLE
	UUPB	UNKNOWN, PULL BOX
	UUVL	UNKNOWN, VALVE
	UUVT	UNKNOWN, VENT
	UUW	UNKNOWN, WELL
	UWFH	WATER, FIRE HYDRANT
W	UWM	WATER, METER
W	UWMH	WATER, MANHOLE
	UWV	WATER, VALVE
W	UWW	WATER, WELL

ROW ACQUISITION

MI PI FEE	MFS_P_T	FEE ACQUISITION
MI PI PE	MEPS_P_T	EASEMENT, PERMANENT
MI PI TE	METS_P_T	EASEMENT, TEMPORARY
MI PI TO	METS_P_T	OCCUPANCY, TEMPORARY
MI PI FEE WO/A	MFS_P_T	FEE ACQUISITION W/O ACCESS

ROW MAPPING

CELL	NAME	DESCRIPTION
	MDL1P	DEED LINE, TYPE 1
	MDL2P	DEED LINE, TYPE 2
	MDL3P	DEED LINE, TYPE 3
	MDL4P	DEED LINE, TYPE 4
	MDL5P	DEED LINE, TYPE 5
	MEEP	EASEMENT, EXISTING
	MEPAP_P	EASEMENT, PERM., APPROX.
	MEPP_P	EASEMENT, PERM., BACK LINE
	MEPSP_P	EASEMENT, PERM., SHAPE
	MFAP_P	FEE ACQUISITION, APPROX.
	MFP_P	FEE ACQUISITION, BACK LINE
	MFSP_P	FEE ACQUISITION, SHAPE
	MHBAP	HIGHWAY BNDRY., APPROX.
	MHBCP	HISTORICAL, BLDG. CORNERS
	MHBP	HIGHWAY BNDRY, PT.
	MJCP	PT., JURIS. CITY
	MPBC	PT., BUILDING CORNER
	MPCC	PT., CROSS CUT
	MPDH	PT., DRILL HOLE
	MPF	PT., FENCE LOCATION
	MPIP	PT., IRON PIPE
	MPIR	PT., IRON ROD
	MPM	PT., MONUMENT
	MPMM	PT., MONUMENT, MISC.
	MPN	PT., NAIL
	MPRS	PT., RAILROAD SPIKE
	MPSP	PT., SPIKE
	MPST	PT., STAKE
	MPTW	PT., TREE W/ WIRE
	MPWL	PT., WALL LOCATION

1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).
2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).
3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.
4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.40 MM ON B SIZE DRAWINGS).
5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS.
6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

LEGEND

FISHER ASSOCIATES

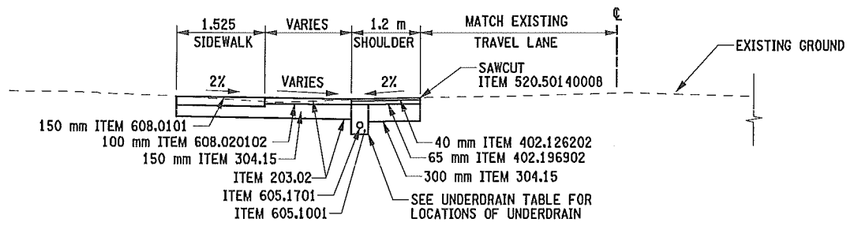
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
REGION 3

DOCUMENT NAME	DATE	DRAWING NO.
37325b leg.dgn	DECEMBER 2012	LEG-2

DESIGN SUPERVISOR S. RANSBOTTOM JOB MANAGER S. RANSBOTTOM DESIGNED BY M. KROLL CHECKED BY M. BUTCHER

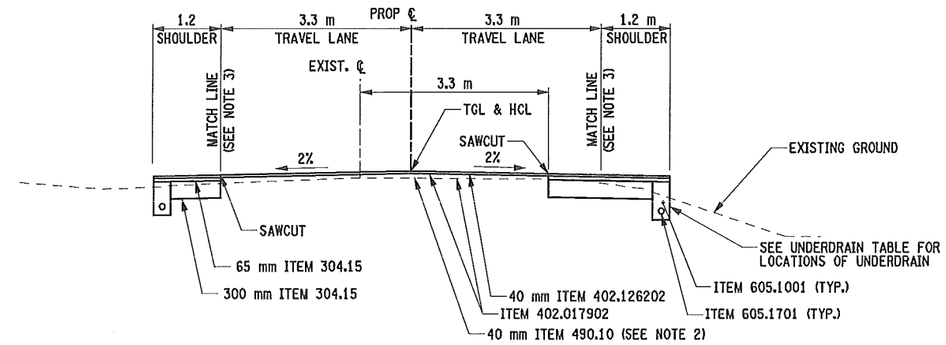
ESTIMATED BY CHECKED BY M. BUTCHER DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = H:\Projects\051000-Hanshaw_Rd\Eng\CUT\Plans\LEG\37532b_leg.dgn
DATE/TIME = 5/14/2013 9:16:03 AM
USER = MarkB



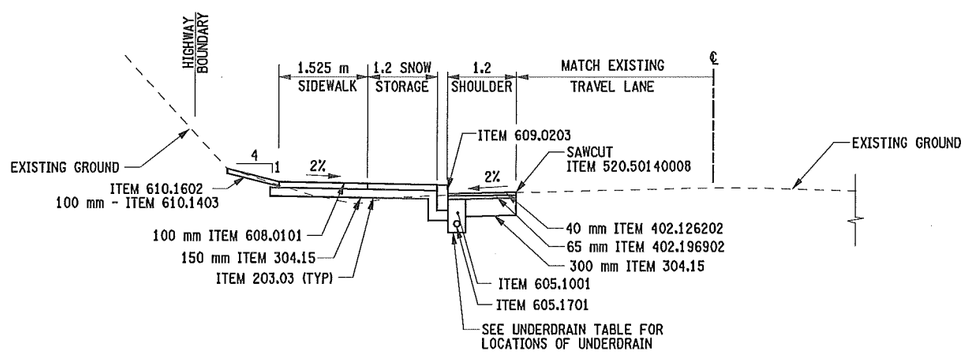
SHOULDER WIDENING

STA. HR 1+070 TO STA. HR 1+110



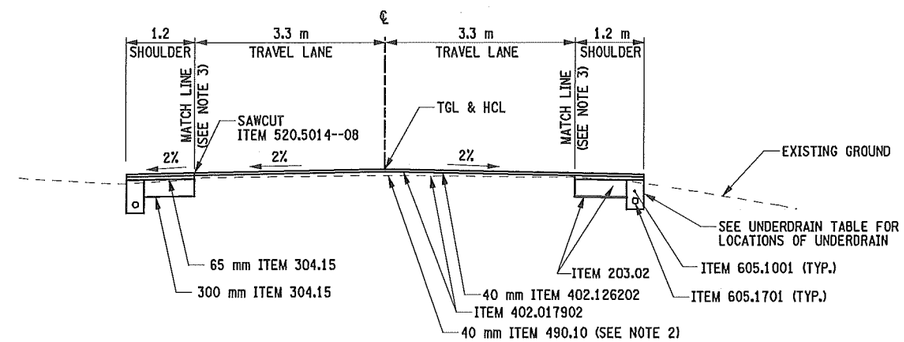
HANSHAW ROAD

STA. HR 1+140 TO STA. HR 1+470



SHOULDER WIDENING WITH CURB

STA. HR 1+110 TO STA. HR 1+140



HANSHAW ROAD

STA. HR 1+470 TO STA. HR 1+850

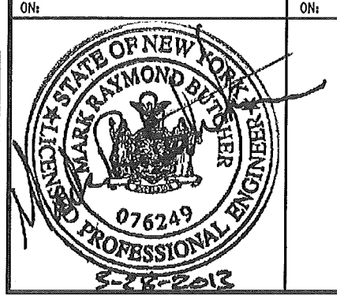
1 0 1 2 3 m

SCALE IN METERS

ADD ALTERNATE NO. 1
REPLACE ITEM 402.126202 WITH ITEM 601.02000024 FOR SHOULDER TOP COURSE ON HANSHAW ROAD (1+326 TO 3+443)

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PREPARED BY: ON:	ALTERED BY: ON:



ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM
203.03	EMBANKMENT IN PLACE	CM
304.15	SUBBASE COURSE, OPTIONAL TYPE	CM
402.017902	TRUE & LEVELING F9 HMA, T0 SERIES COMPACTION	MT
402.126202	12.5 F2 TOP COURSE HMA, 60 SERIES COMPACTION	MT
402.196902	19 F9 BINDER COURSE HMA, 60 SERIES COMPACTION	MT
402.376902	37.5 F9 BASE COURSE HMA, 60 SERIES COMPACTION	MT
407.0102	DILUTED TACK COAT	L
490.10	PRODUCTION COLD MILLING OF BITUMINOUS CONCRETE	SM
520.50140008	SAW CUTTING ASPHALT PAVEMENT, ASPHALT SURFACE COURSE, CONCRETE PAVEMENT OF ASPHALT OVERLAY ON CONCRETE PAVEMENT	M
605.1001	UNDERDRAIN FILTER, TYPE II	CM
605.1701	OPTIONAL UNDERDRAIN PIPE, 100mm DIA.	M
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	CM

ITEM	DESCRIPTION	UNIT
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS, BICYCLE PATHS & VEGETATION CONTROL STRIPS	MT
609.0203	STONE CURB, GRANITE, (TYPE C)	M
610.1403	TOPSOIL - LAWNS	CM
610.1602	TURF ESTABLISHMENT - LAWNS	SM

NOTES:

1. TACK COAT SHALL BE PLACED BETWEEN ALL ASPHALT COURSES AND LIFTS.
2. CONTRACTOR SHALL MILL THE EXISTING PAVEMENT TO PROVIDE THE 2% DESIRED CROSS SLOPE TO A MININUM DEPTH OF 40 mm.
3. SEE DRAWINGS TYP-2 AND TYP-3 FOR ROADSIDE TREATMENTS.
4. TOPSOIL SHALL BE REMOVED UNDER ALL SIDEWALK INSTALLATIONS. THE COST FOR REMOVAL OF THE TOPSOIL OUTSIDE OF EXCAVATION LIMITS SHOWN SHALL BE PAID FOR UNDER ITEM 203.02. ADDITIONAL EMBANKMENT MATERIAL NECESSARY TO REPLACE THE STRIPPED SOIL SHALL BE PAID UNDER ITEM 203.03

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

TYPICAL SECTIONS

FISHERASSOCIATES

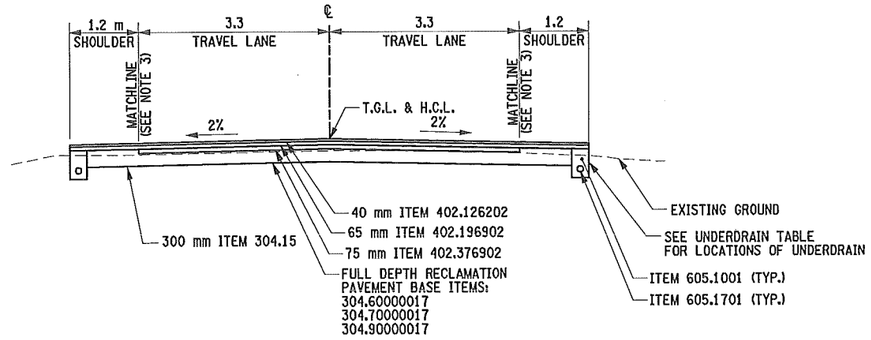
DRAWING NO. TYP- 1
SHEET NO. 5 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

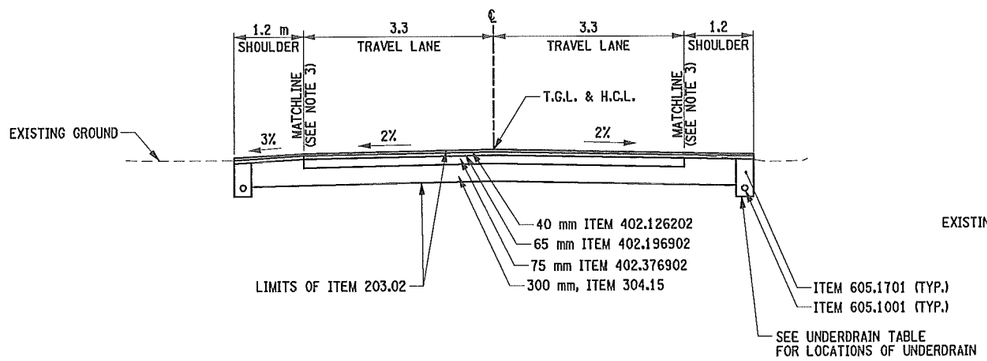
FILE NAME = DGN⊕SPEC
DATE/TIME = 5/14/2013
USER = MARKB



ADD ALTERNATE NO. 1
REPLACE ITEM 402.126202 WITH ITEM 601.02000024 FOR SHOULDER TOP COURSE ON HANSHAW ROAD

HANSHAW ROAD - FULL DEPTH RECLAMATION

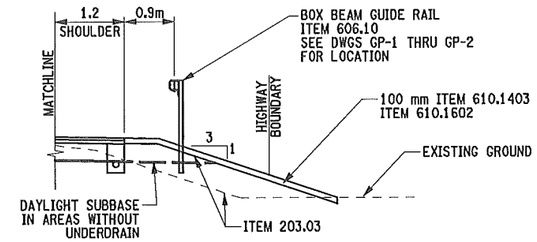
STA. HR 1+850 TO STA. HR 2+100
STA. HR 2+200 TO STA. HR 3+230
STA. HR 3+310 TO STA. HR 3+500



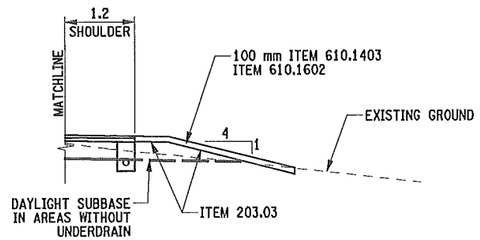
1 0 1 2 3 m
SCALE IN METERS

HANSHAW ROAD - FULL DEPTH RECONSTRUCTION

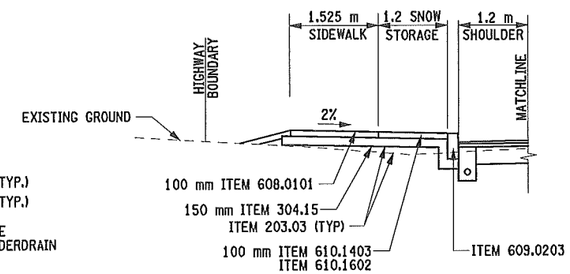
STA. HR 2+100 TO STA. HR 2+200
STA. HR 3+230 TO STA. HR 3+310



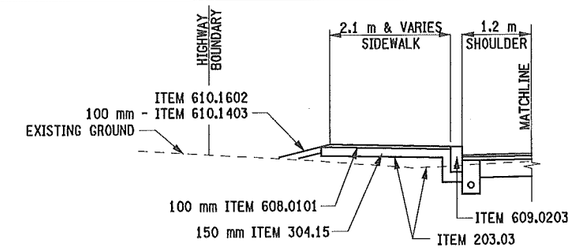
1 FILL SLOPE
(W/ GUIDE RAIL)



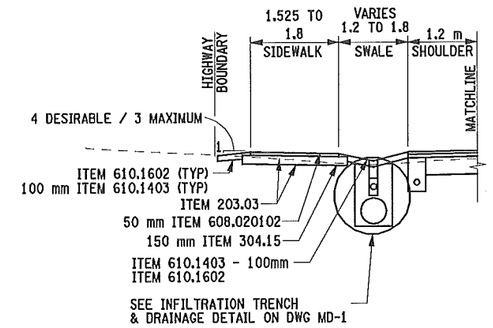
2 CUT/FILL SLOPE



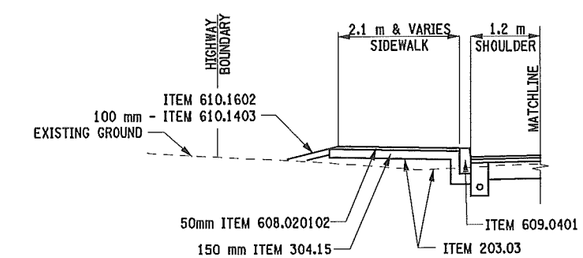
3 OFFSET SIDEWALK
(CONCRETE)



4 CURB & SIDEWALK
(CONCRETE)



5 SWALE & SIDEWALK
(ASPHALT)



6 CURB & SIDEWALK
(ASPHALT)

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PREPARED BY: ON:	ALTERED BY: ON:

STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
3-28-2013

ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM
203.03	EMANKMENT IN PLACE	CM
304.15	SUBBASE COURSE, OPTIONAL TYPE	CM
304.60000017	FULL DEPTH RECLAMATION OF ASPHALT PAVEMENT	SM
304.70000017	CHEMICAL STABILIZING AGENT FOR FULL DEPTH RECLAMATION OF ASPHALT PAVEMENT	MT
304.90000017	AGGREGATE FOR FULL DEPTH RECLAMATION OF ASPHALT PAVEMENT	L
402.017902	TRUE & LEVELING F9 HMA, 70 SERIES COMPACTION	MT
402.126202	12.5 F2 TOP COURSE HMA, 60 SERIES COMPACTION	MT
402.196902	19 F9 BINDER COURSE HMA, 60 SERIES COMPACTION	MT
402.376902	37.5 F9 BASE COURSE HMA, 60 SERIES COMPACTION	MT
407.0102	DILUTED TACK COAT	MT
490.10	PRODUCTION COLD MILLING OF BITUMINOUS CONCRETE	L

ITEM	DESCRIPTION	UNIT
520.50140008	SAW CUTTING ASPHALT PAVEMENT, ASPHALT SURFACE COURSE, CONCRETE PAVEMENT OF ASPHALT OVERLAY ON CONCRETE PAVEMENT	M
605.1001	UNDERDRAIN FILTER, TYPE II	CM
605.1701	OPTIONAL UNDERDRAIN PIPE, 100mm DIA.	M
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	CM
608.020102	ASPHALT CONCRETE SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS	MT
609.0203	STONE CURB, GRANITE, (TYPE C)	
609.0401	CAST-IN-PLACE CONCRETE CURB TYPE VF150	
610.1403	TOPSOIL - LAWNS	CM
610.1602	TURF ESTABLISHMENT - LAWNS	SM
624.0109	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTER	M

NOTES:

1. TACK COAT SHALL BE PLACED BETWEEN ALL ASPHALT COURSES AND LIFTS.
2. CONTRACTOR SHALL MILL THE EXISTING PAVEMENT TO PROVIDE THE 2% DESIRED CROSS SLOPE TO A MINIMUM DEPTH OF 50 mm.
3. SEE DRAWINGS TYP-2 AND TYP-3 FOR ROADSIDE TREATMENTS.
4. TOPSOIL SHALL BE REMOVED UNDER ALL SIDEWALK INSTALLATIONS. THE COST FOR REMOVAL OF THE TOPSOIL OUTSIDE OF EXCAVATION LIMITS SHOWN SHALL BE PAID FOR UNDER ITEM 203.02. ADDITIONAL EMBANKMENT MATERIAL NECESSARY TO REPLACE THE STRIPPED SOIL SHALL BE PAID UNDER ITEM 203.03

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

TYPICAL SECTIONS

FISHER ASSOCIATES

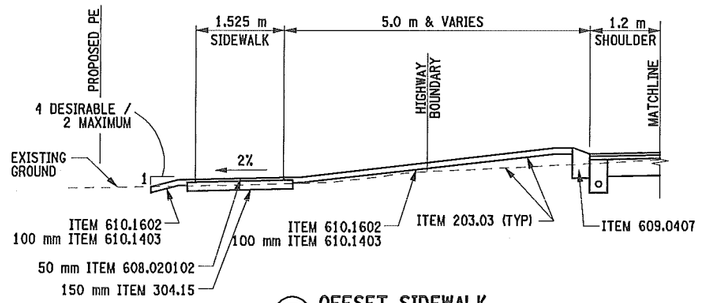
DRAWING NO. TYP- 2
SHEET NO. 6 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

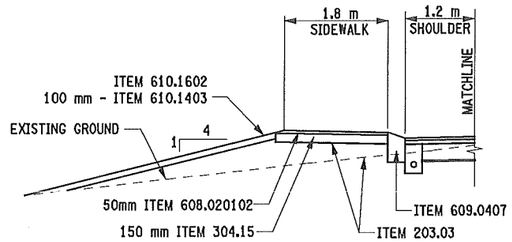
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

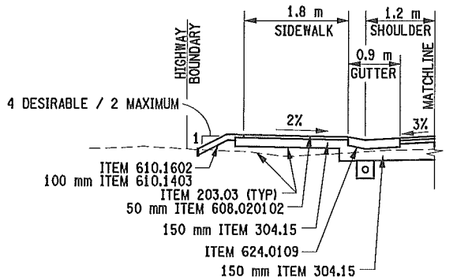
FILE NAME = DGN⊕SPEC
DATE/TIME = 5/14/2013
USER = MARKB



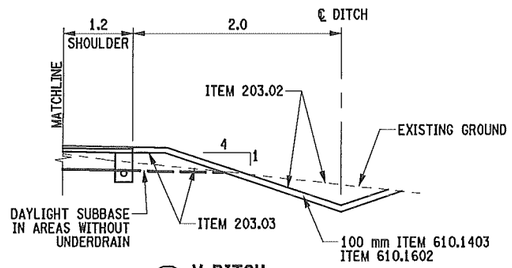
7 OFFSET SIDEWALK
(ASPHALT)



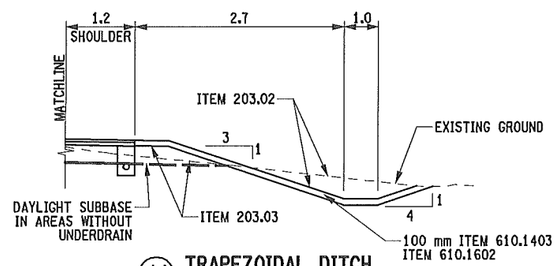
9 TRAVERSABLE CURB & SIDEWALK



8 GUTTER & SIDEWALK
(ASPHALT)



10 V-DITCH



11 TRAPEZOIDAL DITCH

1 0 1 2 3 m
SCALE IN METERS

ROADSIDE TREATMENT TABLE

FROM	TO	DETAIL #	COMMENTS
LEFT SIDE OF ROADWAY			
1+140	1+242	3	
1+242	1+255	3 TO 4	TRANSITION
1+255	1+320	4	
1+320	1+326	4	TRANSITION SIDEWALK WIDTH FROM 2.1 m TO 1.525 m
1+326	1+389	6	
1+389	1+393	6	TRANSITION SIDEWALK WIDTH FROM 1.525 m TO 2.1 m
1+393	1+676	6	
1+676	1+681	6 TO 5	TRANSITION
1+681	1+722	5	1.2 m WIDE SWALE
1+722	1+724	5	TRANSITION SWALE WIDTH FROM 1.2 m TO 1.8 m
1+724	1+802	5	1.8 m WIDE SWALE
1+802	1+804	5	TRANSITION SWALE WIDTH FROM 1.8 m TO 1.2 m
1+804	1+835	5	1.2 m WIDE SWALE
1+835	1+893	7	
1+893	1+961	5	1.8 m WIDE SWALE
1+961	2+057	5	1.2 m WIDE SWALE
2+057	2+062	5 TO 6	TRANSITION
2+062	2+225	6	SIDEWALK WIDTH 2.1 m, USE GRANITE CURB ITEM 609.0203
2+225	2+229	6 TO 5	TRANSITION
2+229	2+368	5	1.2 m WIDE SWALE
2+368	2+372	5 to 6	TRANSITION
2+372	2+382	9	
2+382	2+386	6 TO 5	TRANSITION
2+386	3+052	5	1.2 m WIDE SWALE
3+052	3+058	5 TO 8	TRANSITION
3+058	3+290	8	
3+290	3+300	8 TO 5	TRANSITION
3+300	3+393	5	1.8 m WIDE SWALE
3+393	3+400	5	TRANSITION SWALE WIDTH FROM 1.8 m TO 1.2 m
3+400	3+445	5	
3+445	3+500	2	
RIGHT SIDE OF ROADWAY			
1+140	1+200	2	
1+200	1+260	1	
1+260	2+150	2	
2+150	2+800	10	
2+800	3+150	2	
3+150	3+250	11	
3+250	3+500	2	

ADD ALTERNATE NO. 1

REPLACE ITEM 402.126202 WITH ITEM 601.02000024 FOR SHOULDER TOP COURSE ON HANSHAW ROAD

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PREPARED BY: ON:	ALTERED BY: ON:

STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-28-2013

ITEM	DESCRIPTION	UNIT	ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	609.0407	CAST-IN-PLACE CONCRETE CURB, TYPE T100	M
203.03	EMBANKMENT IN PLACE	CM	610.1403	TOPSOIL - LAWNS	CM
304.15	SUBBASE COURSE, OPTIONAL TYPE	CM	610.1602	TURF ESTABLISHMENT - LAWNS	SM
402.017902	TRUE & LEVELING F9 HMA, 70 SERIES COMPACTION	MT	624.0109	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTER	SM
402.126202	12.5 F2 TOP COURSE HMA, 60 SERIES COMPACTION	MT			
402.196902	19 F9 BINDER COURSE HMA, 60 SERIES COMPACTION	MT			
402.376902	37.5 F9 BASE COURSE HMA, 60 SERIES COMPACTION	MT			
407.02	DILUTED TACK COAT	L			
490.10	PRODUCTION COLD MILLING OF BITUMINOUS CONCRETE	SQM			
520.5014--08	SAW CUTTING ASPHALT PAVEMENT, ASPHALT SURFACE COURSE, CONCRETE PAVEMENT OF ASPHALT OVERLAY ON CONCRETE PAVEMENT	M			
605.1001	UNDERDRAIN FILTER, TYPE II	CM			
605.1701	OPTIONAL UNDERDRAIN PIPE, 100mm DIA.	M			
608.020102	ASPHALT CONCRETE SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS	MT			

NOTES:

1. TACK COAT SHALL BE PLACED BETWEEN ALL ASPHALT COURSES AND LIFTS.
2. SUBBASE COURSE (ITEM 304.15) SHALL BE 150mm BELOW CONCRETE GUTTER, 300mm BELOW THE SHOULDER AND SHALL DRAIN TOWARD THE UNDERDRAIN.
3. TOPSOIL SHALL BE REMOVED UNDER ALL SIDEWALK INSTALLATIONS. THE COST FOR REMOVAL OF THE TOPSOIL OUTSIDE OF EXCAVATION LIMITS SHOWN SHALL BE PAID FOR UNDER ITEM 203.02. ADDITIONAL EMBANKMENT MATERIAL NECESSARY TO REPLACE THE STRIPPED SOIL SHALL BE PAID UNDER ITEM 203.03

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25
PS&E DATE
MAY 2013

BRIDGES
CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

TYPICAL SECTIONS

FISHER ASSOCIATES

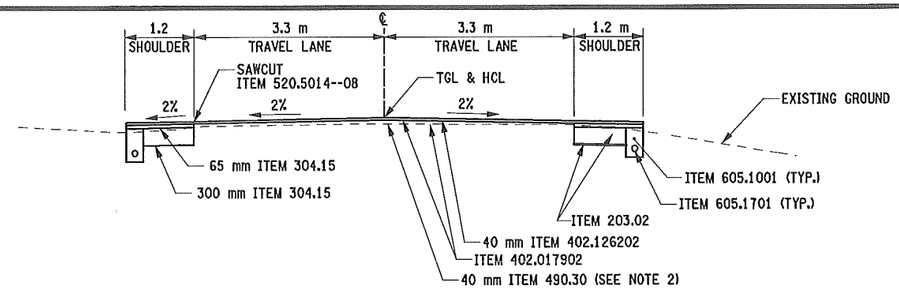
DRAWING NO. TYP- 3
SHEET NO. 7 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

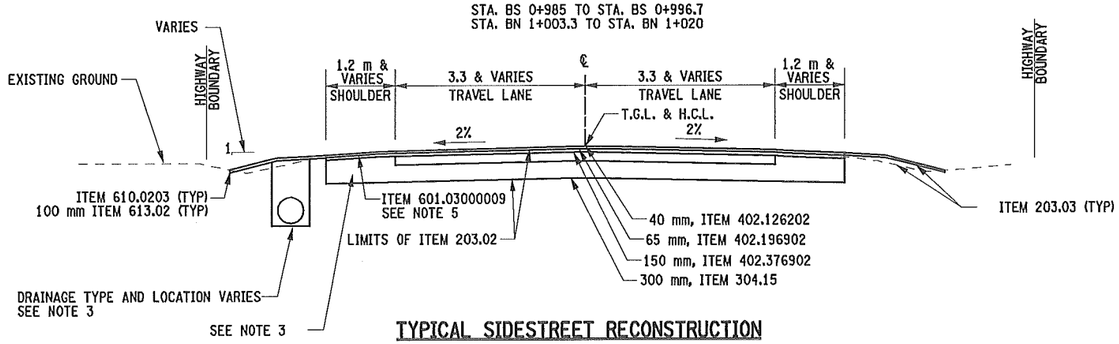
DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



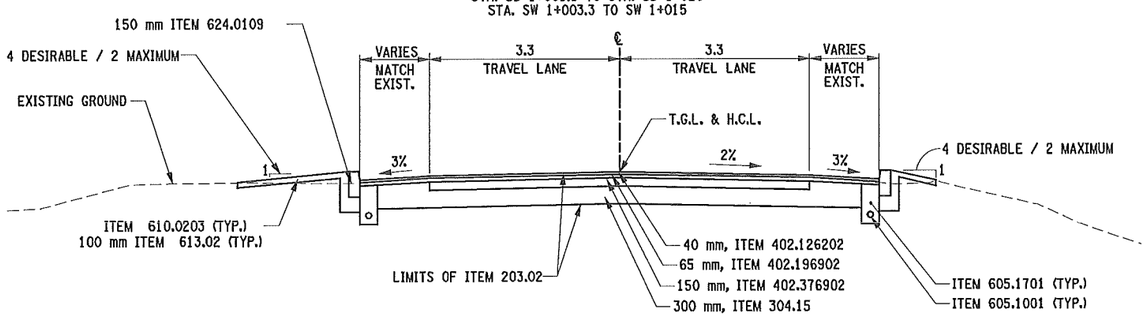
TYPICAL SIDESTREET SHOULDER WIDENING

STA. BS 0+985 TO STA. BS 0+996.7
STA. BN 1+003.3 TO STA. BN 1+020



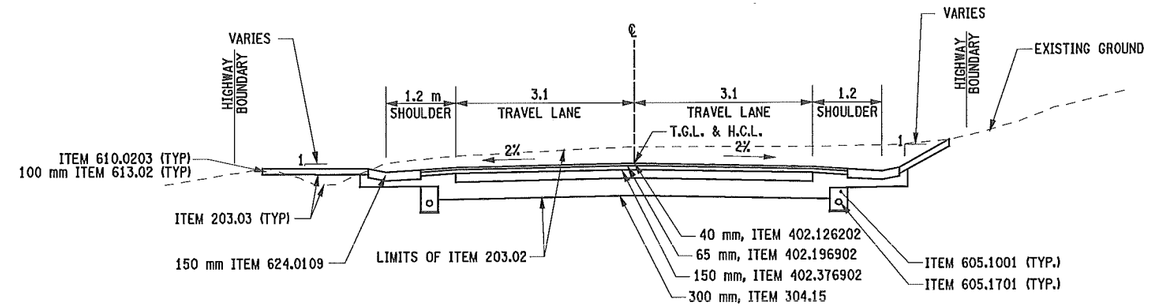
TYPICAL SIDESTREET RECONSTRUCTION

STA. OS 0+985 TO STA. OS 0+996.7
STA. KS 1+003.3 TO STA. KS 1+015
STA. SD 1+003.3 TO STA. SD 1+020
STA. SW 1+003.3 TO SW 1+015



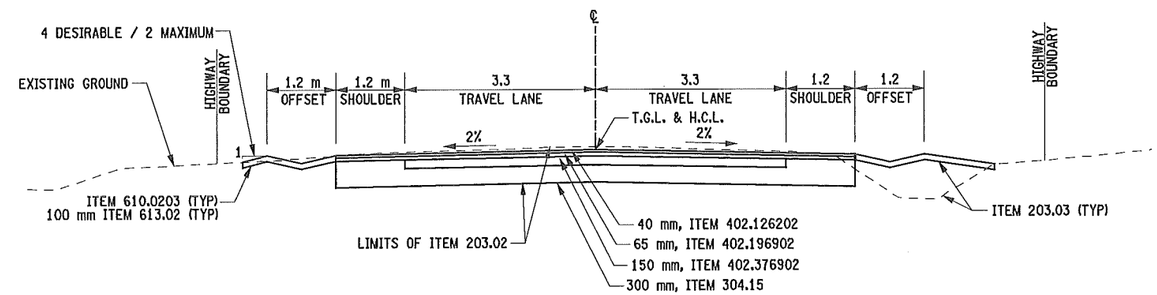
WARREN ROAD - RECONSTRUCTION WITH CURB

STA. WS 1+003.6 TO STA. WS 1+023



MURIEL SIDESTREET RECONSTRUCTION

STA. MS 1+003.3 TO STA. MS 1+085



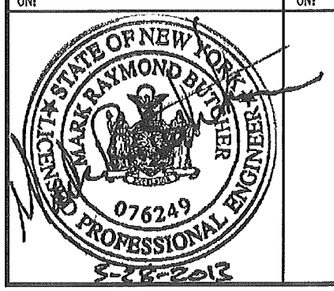
WARREN ROAD - RECONSTRUCTION WITH SWALE

STA. WS 0+960 TO STA. WS 0+984.50 LT. & WS 0+997.30 RT.
STA. WS 1+023 TO STA. WS 1+050

1 0 1 2 3 m
SCALE IN METERS

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PREPARED BY: ON:	ALTERED BY: ON:



ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM
203.03	EMBANKMENT IN PLACE	CM
304.15	SUBBASE COURSE, OPTIONAL TYPE	CM
402.017902	TRUE & LEVELING F9 HMA, 70 SERIES COMPACTION	MT
402.126202	12.5 F2 TOP COURSE HMA, 60 SERIES COMPACTION	MT
402.196902	19 F9 BINDER COURSE HMA, 60 SERIES COMPACTION	MT
402.376902	37.5 F9 BASE COURSE HMA, 60 SERIES COMPACTION	MT
407.01	TACK COAT	L
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SQM
520.5014--08	SAW CUTTING ASPHALT PAVEMENT, ASPHALT SURFACE COURSE, CONCRETE PAVEMENT OF ASPHALT OVERLAY ON CONCRETE PAVEMENT	M
605.1001	UNDERDRAIN FILTER, TYPE II	CM
605.1701	OPTIONAL UNDERDRAIN PIPE, 100mm DIA.	M
		MT

ITEM	DESCRIPTION	UNIT
610.0203	ESTABLISHING TURF	SQM
613.02	PLACING TOPSOIL - TYPE A	M
624.0109	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTER	SQM

NOTES:

1. TACK COAT SHALL BE PLACED BETWEEN ALL ASPHALT COURSES AND LIFTS.
2. CONTRACTOR SHALL MILL THE EXISTING PAVEMENT TO PROVIDE THE 2% DESIRED CROSS SLOPE TO A MINIMUM DEPTH OF 40 mm.
3. SUBBASE COURSE (ITEM 304.15) SHALL BE 150mm BELOW CONCRETE GUTTER, 300mm BELOW THE SHOULDER AND SHALL DRAIN TOWARD THE UNDERDRAIN.
4. SEE DWGS. UP-1 TO UP-16 AND DWGS. DST-1 TO DST-4 FOR STORM SEWER LOCATION AND SIZES.
5. SEE GENERAL PLANS DWGS. GP-1 TO GP-16 FOR INTERSECTION CURB LOCATIONS.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

TYPICAL SECTIONS

FISHERASSOCIATES

DRAWING NO. TYP- 4
SHEET NO. 8 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

GENERAL NOTES:

1. ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE N.Y.S.D.O.T. STANDARD SPECIFICATIONS METRIC UNITS) OF MAY 1, 2008, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING PAVEMENT, SIDEWALK, LAWN AREA, TREES AND OTHER EXISTING FEATURES CAUSED BY HIS/HER OPERATION. ALL SUCH DAMAGE TO EXISTING FEATURES WHICH ARE TO REMAIN SHALL BE REPAIRED OR REPLACED IN KIND BY THE CONTRACTOR AT HIS/HER EXPENSE.

3. GENERAL MAINTENANCE AND PROTECTION OF TRAFFIC WILL BE REQUIRED FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH AND ERECT, MOVE AND REMOVE REFLECTORIZED CONSTRUCTION SIGNS, BARRICADES, PAVEMENT DELINEATION, AND EQUIPMENT NECESSARY TO SAFELY DIRECT MOTORISTS AND PEDESTRIANS A.O.B.E.

4. CLEARING AND GRUBBING SHALL INCLUDE ANY TREE TRIMMING ALONG THE ROADWAY TO ALLOW PASSAGE OF CONSTRUCTION EQUIPMENT AND TREE REMOVAL AS NEEDED. CONTRACTOR SHALL REMOVE THE MINIMUM AMOUNT OF VEGETATION NEEDED FOLLOWING ACCEPTED HORTICULTURAL GUIDELINES.

5. ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATION NOT DESIGNATED FOR OTHER TREATMENT SHALL BE FINE GRADED, TOP SOILED AND SEEDED. FINE GRADING SHALL BE SHAPED TO ALLOW FOR SURFACE DRAINAGE AND RETURNED TO ITS ORIGINAL CONDITION.

6. IN ACCORDANCE WITH ITEM 619.01 WORK ZONE TRAFFIC CONTROL, THE CONTRACTOR SHALL MAINTAIN DRAINAGE FACILITIES AND OTHER ROADWAY ELEMENTS, OLD OR NEW. THE CONTRACTOR SHALL DEVOTE PARTICULAR ATTENTION TO ALL DRAINAGE FACILITIES KEEPING THEM FULLY OPERATIVE AT ALL TIMES. DITCHES WITH SILT FENCES SHALL BE PROVIDED AT ALL TIMES EVEN DURING GRADING OPERATIONS AND PERIODS OF ACCUMULATED PLOWED SNOW, TO ADEQUATELY DRAIN THE TRAVELED WAY AND THE REMAINDER OF THE RIGHT-OF-WAY AREAS.

7. ANY INCIDENTAL ROCK WHICH IS ABLE TO BE REMOVED WITH THE EQUIPMENT BEING USED TO INSTALL THE PIPE, IN TRENCH AND CULVERT EXCAVATION SHALL BE REMOVED AND PAID FOR UNDER ITEM 206.02.

8. AT ALL PAVEMENT LIMIT LINES, A BUTT JOINT SHALL BE CONSTRUCTED (SEE MISC. DETAIL DWGS.). THE COST TO CONSTRUCT AND SEAL THE JOINT SHALL BE INCLUDED IN THE ASSOCIATED ASPHALT ITEMS.

9. TEMPORARY PAVEMENT WILL BE REQUIRED BY THE RESIDENT ENGINEER OVER EXCAVATIONS THAT ARE EXPECTED TO CARRY TRAFFIC FOR A PERIOD OF TIME GREATER THAN 48 HOURS PRIOR TO PERMANENT RESTORATION, TEMPORARY PAVEMENT SHALL CONSIST OF 75 mm THICK ASPHALT CONCRETE, ITEM 403.138902 APPROVED BY THE ENGINEER.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING RIM ELEVATIONS IN RELATION TO PROPOSED GRADE PRIOR TO INSTALLATION.

TREE NOTES

1. THE CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL TREES AS ORDERED BY THE RESIDENT ENGINEER.

2. NO TREES SHALL BE REMOVED OR TRIMMED WITHOUT THE APPROVAL OF THE RESIDENT ENGINEER AND PROPERTY OWNER. NO TREE SHALL BE REMOVED OTHER THAN SHOWN ON THE PLAN AND WITHOUT WRITTEN AUTHORIZATION FROM THE PROPERTY OWNER IF OUTSIDE OF THE RIGHT-OF-WAY. TREE REMOVALS SHALL INCLUDE STUMP REMOVAL.

3. TREES 150 mm DIAMETER AND LESS, MEASURED 1.525 m FROM THE GROUND, WILL BE PAID UNDER ITEM 201.06, CLEARING AND GRUBBING.

4. THE CLEARING, GRUBBING, REMOVING AND DISPOSING OF TREES AS DEFINED IN NOTE 3, BRUSH, STUMPS, FENCES, DEBRIS, AND MISCELLANEOUS STRUCTURES WITHIN THE HIGHWAY BOUNDARY SHALL BE PAID UNDER ITEM 201.06, CLEARING AND GRUBBING, UNLESS OTHERWISE NOTED ON THE PLANS.

5. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN INSTALLING TRAFFIC SIGNAL CONDUIT IN THE VICINITY OF REMAINING TREES AND SHRUBS TO MINIMIZE DAMAGE TO ROOT SYSTEMS.

UTILITY NOTES

1. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ANY AFFECTED UTILITY COMPANIES.

2. EXISTING UTILITIES (LOCATIONS, SIZES, AND INVERTS) SHOWN ON THE PLANS HAVE BEEN PLOTTED FROM THE FIELD SURVEYS AND RECORD MAPS AND ARE NOT CERTIFIED AS TO THE ACCURACY OF THEIR LOCATION OR COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES AND STRUCTURES IN THE PATH OF OR CLOSELY PARALLEL TO OR UNDER THE PROPOSED CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY OWNERS IN AMPLE TIME FOR THEM TO LOCATE AND MARK THEIR FACILITIES. THE CONTRACTOR SHALL ALSO NOTIFY CONTROL STAKEOUT AT LEAST 72 HOURS IN ADVANCE OF COMMENCING ANY WORK ("DIG SAFELY NEW YORK" TELEPHONE NO. 1-800-962-7962) AND ANY UTILITIES NOT SERVED BY "DIG SAFELY NEW YORK".

3. THE LOCATION, DEPTHS, AND DATA AS TO UNDERGROUND CONDITIONS HAVE BEEN OBTAINED FROM RECORDS, SURFACE INDICATIONS, AND DATA FURNISHED BY OTHERS.

4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PRESERVE THE INTEGRITY OF EXISTING UTILITIES TO REMAIN AND SHALL PROVIDE UNINTERRUPTED SERVICE TO ALL USERS OF THE EXISTING UTILITIES. EXISTING UTILITIES TO REMAIN, ENCOUNTERED IN TRENCH OR PAVEMENT RECONSTRUCTION EXCAVATIONS SHALL BE SUPPORTED AS NECESSARY OR AS ORDERED BY THE RESIDENT ENGINEER. THE COST FOR SUPPORTING UTILITIES SHALL BE INCLUDED IN THE PRICE BID FOR EXCAVATION ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THESE UTILITIES CAUSED BY HIS OPERATIONS AND IF THE NATURE OF THE DAMAGE IS SUCH AS TO ENDANGER THE SATISFACTORY OPERATIONS OF THESE UTILITIES, REPAIRS MUST BE MADE BY THE CONTRACTOR OR THE UTILITY COMPANY, AS DETERMINED BY THE RESPECTIVE OWNING UTILITY COMPANY. ANY COSTS BORNE BY THE UTILITY COMPANY FOR THESE REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

5. ADJUSTMENT, RELOCATION OR REPLACEMENT OF EXISTING TELEPHONE, ELECTRIC, GAS, CABLE TELEVISION, AND OTHER PRIVATE UTILITIES NECESSITATED BY THE PROJECT SHALL BE DONE BY OTHERS.

6. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS ENCOUNTERED AND SEWER LINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPE AT THE POINT OF CROSSING, MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 3.0 m MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES, OR VAULTS. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (K-CRETE) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN.

7. ALL EXISTING SANITARY LATERALS AND WATER MAINS ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RECONNECTED AS ORDERED BY THE RESIDENT ENGINEER.

STANDARD GENERAL PLAN NOTES

1. ROAD TO BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.

2. ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES.

3. ALL MATERIALS USED WITHIN THE COUNTY RIGHT-OF-WAY MUST COMPLY WITH THE CURRENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS ALONG WITH ANY APPROPRIATE CURRENT NYS DEPARTMENT OF TRANSPORTATION'S STANDARD SHEETS.

SURVEY NOTES

1. ALL RIGHT-OF-WAY MONUMENTS AND PROPERTY CORNERS ARE TO BE SAFEGUARDED AND PRESERVED. ALL PROPERTY CORNERS THAT ARE DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION ARE TO BE REPLACED AND CERTIFIED BY A N.Y.S. LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

2. ANY IRON PINS, CONCRETE MONUMENTS, SURVEY MONUMENTS, OR OTHER ITEMS DEFINING PROPERTY LINES OR BASELINES WHICH ARE DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE PROPERLY TIED AND ACCURATELY RESET UPON COMPLETION OF WORK. PAYMENT SHALL BE INCLUDED UNDER ITEM 625.01.

TEMPORARY SOIL EROSION CONTROL NOTES

1. GENERAL

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED, INSPECTED, MONITORED, AND MAINTAINED AS SPECIFIED IN THE NYSDOT SPECIFICATIONS AND AS SPECIFIED BY THE PROJECT PLANS.

THE EROSION CONTROL MEASURES SHALL BE AMENDED AND RE- CERTIFIED BY A LICENSED OR CERTIFIED PROFESSIONAL IF THERE ARE SIGNIFICANT CHANGES IN THE DESIGN OR CONSTRUCTION ACTIVITIES THAT MAY HAVE A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF SEDIMENT OR POLLUTANTS INTO THE WATERS OF THE UNITED STATES. COSTS ASSOCIATED WITH AMENDING OR THE RE- CERTIFICATION OF THE ECP WILL BE INCLUDED IN THE PRICE BID FOR THE EROSION CONTROL ITEMS.

WHERE THERE ARE INCONSISTENCIES BETWEEN THE REQUIREMENTS OF THE NYSDOT SPECIFICATIONS AND THE ECP, THE MORE STRINGENT REQUIREMENTS SHALL BE FOLLOWED.

2. PERIMETER SILTATION FENCING, ITEM 209.13

SILT FENCING MUST BE INSTALLED PARALLEL TO EXISTING CONTOURS OR CONSTRUCTED IN LEVEL ALIGNMENTS. ENDS OF FENCING MUST BE EXTENDED 10 FT, TRAVELING UPSLOPE AT 45 DEGREES TO THE ALIGNMENT OF THE MAIN FENCING SECTION.

3. STABILIZATION PRACTICES

NO MORE THAN 2.02 HECTARES (5 ACRES) OF DISTURBED SOIL IS PERMITTED AT ANY ONE TIME WITHOUT PRIOR WRITTEN PERMISSION FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC).

ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 DAYS BY TEMPORARY SEEDING OR OTHER EROSION PREVENTION MEASURES.

DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN ONE YEAR MAY BE SEEDED AND MULCHED WITH QUICK GROWING TEMPORARY SEEDING MIXTURE WITH MULCH. DISTURBED AREAS THAT ARE EITHER AT FINISHED GRADE OR WILL NOT BE RE-DISTURBED WITHIN ONE YEAR MUST BE SEEDED AND MULCHED WITH A PERMANENT SEEDING MIXTURE AND MULCH.

TEMPORARY SEEDING STABILIZATION, ITEM 209.1003

SEED: SEEDING MIXTURE SHALL BE APPLIED AS SPECIFIED IN THE NYSDOT STANDARD SPECIFICATIONS, SECTION 209.

PERMANENT SEEDING STABILIZATION, ITEM 610.1602

SEED MIXTURE, FERTILIZER, AND MULCHING FOR PERMANENT SEEDING STABILIZATION SHALL BE THE SAME AS SPECIFIED FOR FINAL TURF ESTABLISHMENT ON THE PROJECT AND AS SPECIFIED IN SECTION 610 OF THE NYSDOT STANDARD SPECIFICATIONS.

ROLLED EROSION CONTROL PRODUCTS SHALL BE APPLIED TO TEMPORARY SLOPES 1:2 OR GREATER, ITEM 209.1903, ROLLED EROSION CONTROL PRODUCT, CLASS II, TYPE C, INTERMEDIATE. SEE THE EROSION CONTROL PLANS FOR ROLLED EROSION CONTROL PRODUCTS FOR STABILIZATION OF FINAL SLOPES.

4. INLET PROTECTION

INLETS LOCATED WITHIN THE PROPOSED ROADWAY SHALL BE PROTECTED WITH GRAVEL BAG OR SILT FENCE INLET PROTECTION, AS NEEDED, TO PREVENT SEDIMENT FROM ENTERING THE CLOSED DRAINAGE SYSTEM. ANY SEDIMENT ACCUMULATIONS IN THE DRAINAGE PIPES OR STRUCTURES SHALL BE REMOVED. THE COST FOR PROTECTING THE INLETS WITHIN THE PROPOSED ROADWAY AND ANY NECESSARY SEDIMENT REMOVAL IS INCLUDED IN THE PRICE BID FOR THE DRAINAGE ITEMS.

5. MAINTENANCE / INSPECTION PROCEDURES

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED AS SPECIFIED IN THE NYSDOT STANDARD SPECIFICATIONS AND THE SWPPP.

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL NOTES

FISHER ASSOCIATES

DRAWING NO. GN-1
SHEET NO. 9 OF 130

DOCUMENT NAME: 375325A_GN.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

BASE BID

ITEM NUMBER	DESCRIPTION	UNIT	EST. QNTY.	FINAL QNTY.
201.07	CLEARING AND GRUBBING	LS	NEC	
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	3546	
203.03	EMBANKMENT IN PLACE	CM	4182	
203.07	SELECT GRANULAR FILL	CM	8365	
203.25	SAND BACKFILL	CM	240	
206.02	TRENCH AND CULVERT EXCAVATION	CM	14614	
206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	M	126	
206.04010011	PNEUMATIC EXCAVATION AND BACKFILL OF TRENCHES	M	40	
207.20	GEOTEXTILE BEDDING	SM	3985	
209.1003	SEED AND MULCH - TEMPORARY	SM	11355	
209.13	SILT FENCE (TEMPORARY)	M	3403	
209.1701	DRAINAGE STRUCTURE INLET PROTECTION, SILT FENCE - TEMPORARY	M	360	
304.15	SUBBASE COURSE, OPTIONAL TYPE	CM	2920	
304.60000017	FULL DEPTH RECLAMATION OF ASPHALT PAVEMENT	SM	9702	
304.70000017	CHEMICAL STABILIZING AGENT FOR FULL DPETH RECLAMATION OF ASPHALT PAVEMENT	L	106722	
304.90000017	AGGREGATE FOR FULL DEPTH RECLAMATION OF ASPHALT PAVEMENT	MT	776	
402.017902	TRUE & LEVELING SUPERPAVE HMA, 60 SERIES COMPACTION	MT	675	
402.017912	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.017902	QU	34	
402.126202	12.5 F1 TOP COURSE HMA, 60 SERIES COMPACTION	MT	2664	
402.126212	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.126202	QU	133	
402.196902	19 F9 BINDER COURSE HMA, 60 SERIES COMPACTION	MT	3131	
402.196912	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.196902	QU	157	
402.376902	37.5 F9 BASE COURSE HMA, 60 SERIES COMPACTION	MT	3086	
402.376912	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.376902	QU	154	
407.0102	DILUTED TACK COAT	L	8151	
490.10	PRODUCTION COLD MILLING	SM	4686	
490.30	MISCELLANEOUS COLD MILLING BITUMINOUS CONCRETE	SM	248	
520.50140008	SAW CUTTING ASPHALT PVMT., ASPHALT SURFACE COURSE, CONCRETE PVMT. OF ASPHALT OVERLAY ON CONCRETE PVMT.	M	1626	
552.16	EXCAVATION PROTECTION SYSTEM	SM	6100	
603.171116	GALVANIZED STEEL END SECTIONS - PIPE (68mm x 13 mm CORRUGATIONS) 375 mm DIA., 16 GA.	EA	2	
603.171216	GALVANIZED STEEL END SECTIONS - PIPE (68mm x 13 mm CORRUGATIONS) 450 mm DIA., 16 GA.	EA	1	
603.171316	GALVANIZED STEEL END SECTIONS - PIPE (68mm x 13 mm CORRUGATIONS) 525 mm DIA., 16 GA.	EA	1	
603.171416	GALVANIZED STEEL END SECTIONS - PIPE (68mm x 13 mm CORRUGATIONS) 600 mm DIA., 16 GA.	EA	2	
603.171614	GALVANIZED STEEL END SECTIONS - PIPE (68mm x 13 mm CORRUGATIONS) 750 mm DIA., 14 GA.	EA	4	
603.171814	GALVANIZED STEEL END SECTIONS - PIPE (68mm x 13 mm CORRUGATIONS) 900 mm DIA., 14 GA.	EA	1	
603.171912	GALVANIZED STEEL END SECTIONS - PIPE (68mm x 13 mm CORRUGATIONS) 1050 mm DIA., 12 GA.	EA	1	
603.77	CONCRETE COLLAR	EA	1	
603.9812	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 300 mm	M	1900	
604.9815	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 375 mm	M	171	
603.9818	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 450 mm	M	31	
603.9824	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 600 mm	M	44	
603.9830	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 750 mm	M	795	
603.9836	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 900 mm	M	327	
603.9842	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 1050 mm	M	112	
604.070301	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES	EA	20	
604.0812--18	300mm DIA PVC INLINE DRAIN WITH 300mm GRATE	EA	16	
604.1202--18	300mm DIA PVC DRAIN BASIN WITH 610 X 915 mm GRATE	EA	15	
604.300203	RECTANGULAR DRAINAGE STRUCTURE TYPE B FOR #3 WELDED FRAME	M	10	
604.300303	RECTANGULAR DRAINAGE STRUCTURE TYPE C FOR #3 WELDED FRAME	M	31	
604.300311	RECTANGULAR DRAINAGE STRUCTURE TYPE C FOR #11 WELDED FRAME	M	4.3	
604.300411	RECTANGULAR DRAINAGE STRUCTURE TYPE D FOR #11 WELDED FRAME	M	2	
604.300691	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR PARALLEL BAR #11 PCB FRAME	M	1.5	
604.301111	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR #11 WELDED FRAME	M	4	
604.301190	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR PARALLEL BAR #10 PCB FRAME	M	4	
604.301911	RECTANGULAR DRAINAGE STRUCTURE TYPE S FOR #11 WELDED FRAME	M	24	
604.301990	RECTANGULAR DRAINAGE STRUCTURE TYPE S FOR PARALLEL BAR #10 PCB FRAME	M	31	
604.302016	RECTANGULAR DRAINAGE STRUCTURE TYPE T FOR #16 WELDED FRAME	M	2.1	
604.302122	RECTANGULAR DRAINAGE STRUCTURE TYPE U FOR #22 WELDED FRAME	M	3.3	
604.302192	RECTANGULAR DRAINAGE STRUCTURE TYPE U FOR PARALLEL BAR #12 PCB FRAME	M	4	
604.311611	RECTANGULAR DRAINAGE STRUCTURE TYPE P WITH ROUND OPTION FOR #11 WELDED FRAME	M	2.1	
604.4060	ROUND PRECAST MANHOLE TYPE 60	M	7.9	
604.4072	ROUND PRECAST MANHOLE TYPE 72	M	2	
604.4084	ROUND PRECAST MANHOLE TYPE 84	M	3.8	
604.4096	ROUND PRECAST MANHOLE TYPE 96	M	9	
605.0901	UNDERDRAIN FILTER, TYPE I	CM	160	
605.1001	UNDERDRAIN FILTER, TYPE II	CM	810	
605.1701	OPTIONAL UNDERDRAIN PIPE, 100 mm DIA.	M	4413	
606.10	BOX BEAM GUIDE RAILING	M	38	
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	EA	2	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE	M	270	
607.97000008	REMOVE AND RESET EXISTING FENCE	M	273	
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	CM	47	
608.20	SURFACE APPLIED DETECTABLE WARNING UNITS	SM	17.3	
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS	MT	730.1	
609.0203	STONE CURB, GRANITE, (TYPE C)	M	251	
609.0401	CAST-IN-PLACE CONCRETE CURB TYPE VF150	M	642	
609.0407	CAST-IN-PLACE CONCRETE CURB TYPE T100	M	68	
610.10	COMPOST	CM	21	
610.14000011	STRUCTURAL SOIL	CM	40	
610.1403	TOPSOIL - LAWNS	CM	1136	
610.1404	TOPSOIL - SPECIAL PLANTING MIX	CM	63	
610.1602	TURF ESTABLISHMENT - LAWNS	SM	11355	
611.010113	PLANTING MAJOR DECIDUOUS TREE SPECIES, AS SPECIFIED, BALLED AND BURLAPPED	EA.	1	
611.010115	PLANTING MAJOR DECIDUOUS TREE SPECIES, AS SPECIFIED, SPRING PLANTING	EA.	2	
611.020113	PLANTING MINOR DECIDUOUS TREE SPECIES, AS SPECIFIED	EA.	8	
611.030113	PLANTING CONIFEROUS TREE SPECIES, AS SPECIFIED, BALLED AND BURLAPPED	EA.	19	
611.040112	PLANTING DECIDUOUS SHRUB SPECIES, AS SPECIFIED, BALLED AND BURLAPPED	EA.	255	
611.050113	PLANTING EVERGREEN SHRUB SPECIES, AS SPECIFIED, BALLED AND BURLAPPED	EA.	4	

BASE BID - CONTINUED

ITEM NUMBER	DESCRIPTION	UNIT	EST. QNTY.	FINAL QNTY.
614.0111	CARE OF TREES UP TO 0.3M DBH PRUNING	EA	17	
614.0314	TREE REMOVAL UP TO 150MM DBH, STUMP GRUBBED	EA	16	
614.0324	TREE REMOVAL OVER 150MM TO 300MM DBH, STUMP GRUBBED	EA	18	
614.0334	TREE REMOVAL OVER 300MM TO 450MM DBH, STUMP GRUBBED	EA	5	
614.0344	TREE REMOVAL OVER 450MM TO 600MM DBH, STUMP GRUBBED	EA	4	
614.0354	TREE REMOVAL OVER 600MM TO 900MM DBH, STUMP GRUBBED	EA	3	
615.03	WATERING VEGETATION	KL	26	
619.01	BASIC MAINTENANCE AND PROTECTION OF TRAFFIC (7%)	LS	NEC	
619.27	MAILBOXES	EA	79	
620.04	STONE FILLING (MEDIUM)	CM	20	
623.12	CRUSHED STONE (IN-PLACE MEASURE)	CM	22.4	
624.0109	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTERS	SM	375	
625.01	SURVEY AND STAKE-OUT	LS	NEC	
637.11	ENGINEER'S OFFICE - TYPE 1	MO	10	
637.26	RAIN GUAGE	DC	250	
637.34	OFFICE TECHNOLOGY AND SUPPLIES	DC	7000	
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	SM	5.6	
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 2.78 SM WITH Z-BARS	SM	12.6	
645.5202	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 2.78 SM WITH Z-BARS	SM	10.1	
645.81	TYPE A SIGN POSTS	EA	64	
647.31	RELOCATING SIGN PANEL SIZE I (UNDER 2.8 SM)	EA	11	
647.61	REMOVE AND DISPOSE OF SIGNS, GROUND MOUNTED TYPE A SIGN SUUPORTS AND FOUNDATIONS - SIZE I (UNDER 2.8 SM)	EA	48	
655.0901	PARALLEL BAR FRAME 10 PCB & PARALLEL BAR GRATE 10 PCB	EA	23	
655.0902	PARALLEL BAR FRAME 11 PCB & PARALLEL BAR GRATE 11 PCB	EA	2	
655.0903	PARALLEL BAR FRAME 12 PCB & PARALLEL BAR GRATE 12 PCB	EA	1	
655.1003	WELDED FRAME & RECTANGULAR GRATE 3	EA	20	
655.1111	WELDED FRAME & RETICULINE GRATE 11	EA	22	
655.1116	WELDED FRAME & RETICULINE GRATE 16	EA	2	
655.1122	WELDED FRAME & RETICULINE GRATE 22	EA	3	
655.1201	MANHOLE FRAME & GRATE	EA	11	
663.0106	DUCTILE IRON CEMENT LINED WATER PIPE, 6 NPS	M	15	
663.0108	DUCTILE IRON CEMENT LINED WATER PIPE, 8 NPS	M	479	
663.0603	COPPER WATER SERVICE PIPE	M	55	
663.0604	COPPER WATER SERVICE PIPE, 1 NPS	M	8	
663.1006	RESILIENT WEDGE VALVE AND VALVE BOX, 6 NPS	EA	2	
663.1008	RESILIENT WEDGE VALVE AND VALVE BOX, 8 NPS	EA	9	
663.1808	BOLTED SLEEVE TYPE COUPLING, 8 NPS	EA	8	
663.2001	IRON WATER MAIN FITTINGS (3 NPS - 8 NPS)	KG	1000	
663.2108	WEDGE TYPE MECHANICAL RESTRAINT GLANDS, 8 NPS	EA	30	
663.2308	POLYETHYLENE ENCASEMENT FOR WATER PIPE, 8 NPS	M	180	
663.2503	WATER SERVICE CONNECTION	EA	11	
663.2504	WATER SERVICE CONNECTION, 1 NPS	EA	2	
663.2603	CURB STOP AND CURB BOX, 3/4 NPS	EA	11	
663.2604	CURB STOP AND CURB BOX, 1 NPS	EA	2	
663.31	RELOCATE EXISTING HYDRANT	EA	2	
663.33	ADJUST EXISTING VALVE BOX ELEVATION	EA	67	
663.42	REMOVE & DISPOSE OF EXISTING WATER VALVE & VALVE BOX	EA	8	
663.44	REMOVE AND DISPOSE OF EXISTING WATER SERVICE CONNECTION	EA	13	
663.46	REMOVE AND STORE EXISTING HYDRANT	EA	2	
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CM	5	
680.510301	PULLBOX-CIRCULAR, 600 mm DIAMETER, REINFORCED CONCRETE	EA	8	
680.520508	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 3 NPS	M	143	
680.520703	CONDUIT, RIGID PLASTIC, CLASS 1 OR 2, 1 NPS	M	14	
680.54	INDUCTANCE LOOP INSTALLATION	M	191	
680.602009	TRAFFIC SIGNAL POLE-SPAN WIRE 20 KILONEWTON LOAD, 9 METER LENGTH	EA	2	
680.7001	SINGLE SPANWIRE ASSEMBLY	EA	1	
680.700603	RISER	EA	1	
680.71	SHIELDED LEAD-IN CABLE	M	200	
680.72	INDUCTANCE LOOP WIRE	M	551	
680.731914	SIGNAL CABLE 19 CONDUCTORS, 14 AWG	M	55	
680.80149305	NEMA TS 2 SOLID STATE MENU DRIVEN ACTUATED CONTROLLER & CABINENT	EA	1	
680.810101	TRAFFIC SIGNAL MODULE - 300 mm, RED BALL, LED	EA	8	
680.810103	TRAFFIC SIGNAL MODULE - 300 mm, YELLOW BALL, LED	EA	8	
680.810105	TRAFFIC SIGNAL MODULE - 300 mm, GEEN BALL, LED	EA	8	
680.810601	TRAFFIC SIGNAL SECTION - POLYCARBONATE, TYPE I, 300 mm	EA	24	
680.8112	TRAFFIC SIGNAL BRACKET ASSEMBLY - 2 WAY	EA	2	
680.8114	TRAFFIC SIGNAL BRACKET ASSEMBLY - 4 WAY	EA	1	
680.8120	TRAFFIC SIGNAL DISCONNECT HANGER	EA	3	
680.90920001	ELECTRIC METER SOCKET, 100 AMPERE, SINGLE PHASE, 120 VOLT FOR TRAFFIC SIGNAL INSTALATIONS	EA	1	
680.95020815	SERVICE CABLE 2 CONDUCTOR NO. 08 AWG	M	55	
685.11	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES	M	4965	
685.12	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES	M	4800	
688.01	WHITE PREFORMED REFLECTORIZED PAVEMENT STRIPES	M	1178	
697.03	FIELD CHANGE ORDER	DC	210000.00	
698.04	ASPHALT PRICE ADJUSTMENT	DC	20500.00	
698.05	FUEL PRICE ADJUSTMENT	DC	38400.00	
698.06	STEEL PRICE ADJUSTMENT	DC	100.00	
699.040001	MOBILIZATION	LS	NEC	

ALTERNATE #1 - COLORED SHOULDERS

ITEM NUMBER	DESCRIPTION	UNIT	EST. QNTY.	FINAL QNTY.
601.02000024	INTEGRALLY COLORED HOT APPLIED TEXTURED POLYMER WEARING SURFACE - COURSE AGGREGATE TYPE F2 CONDITIONS	SM	5736	
697.03	FIELD CHANGE ORDER	DC	7000	
699.040001	MOBILIZATION	LS	NEC	

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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES | CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

ESTIMATE OF QUANTITIES

FISHER ASSOCIATES

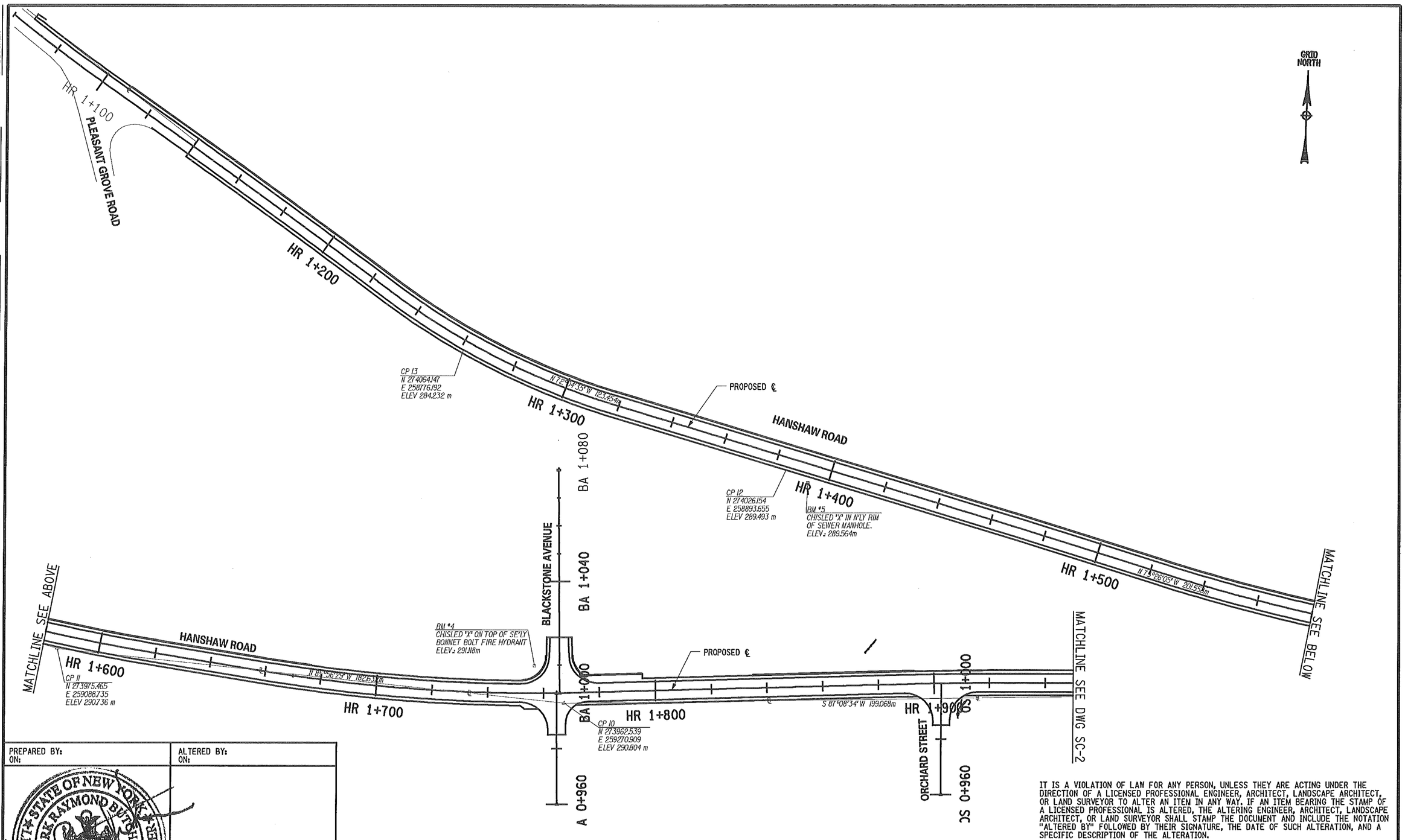
DRAWING NO. ES-1
SHEET NO. 10 OF 130

DOCUMENT NAME: $FILENAME$

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY M. BUTCHER DRAFTED BY T. DAVIS CHECKED BY R. BENNETT ESTIMATED BY



DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY ____ DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE ____ DATE ____

DOCUMENT NAME: 375325A_SC.DGN

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

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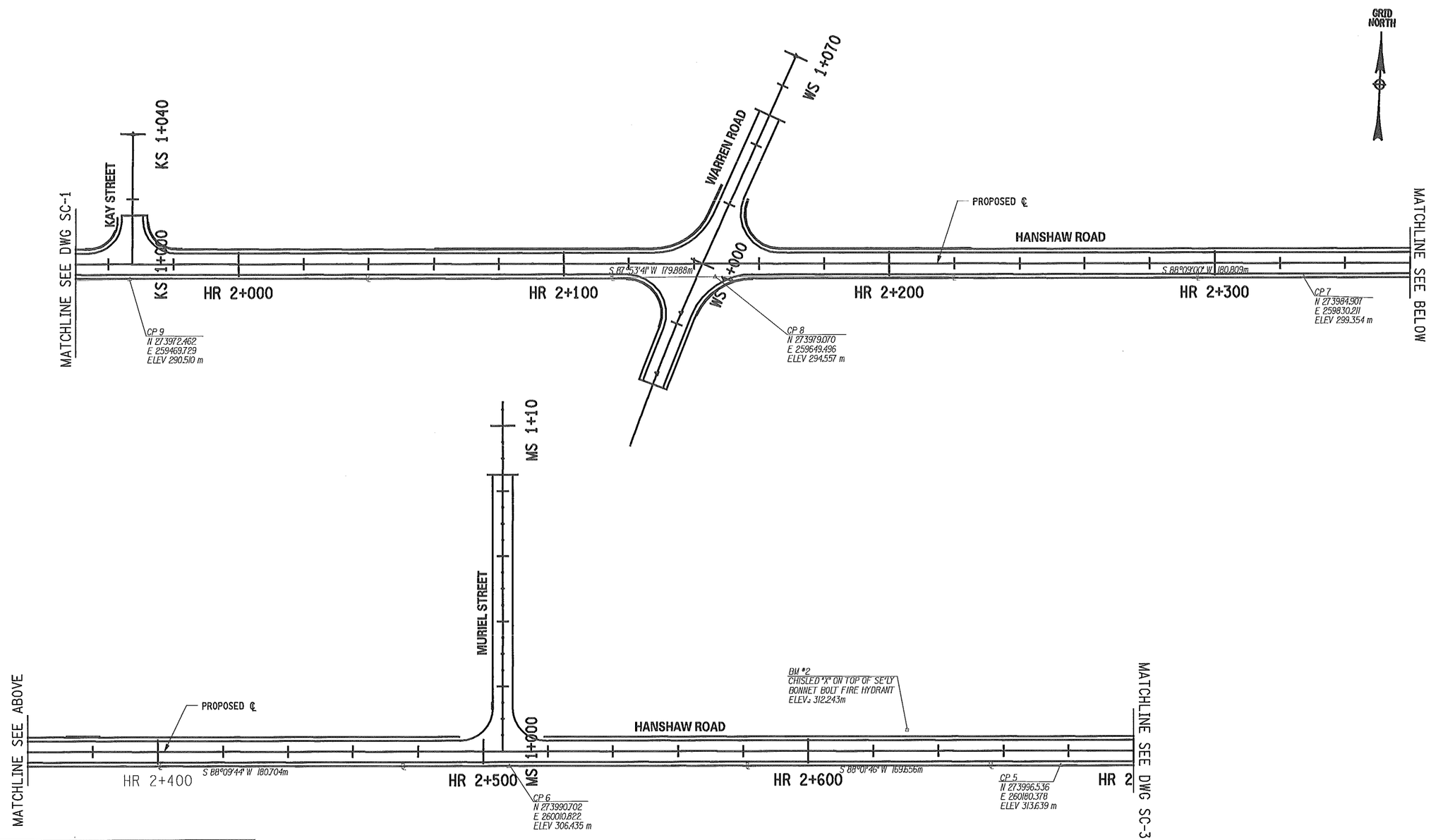
FISHER ASSOCIATES

DRAWING NO. SC-1
SHEET NO. 11 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3



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COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
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SHEET NO. 12 OF 130

DOCUMENT NAME: 375325B_SC.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER
ESTIMATED BY
CHECKED BY R. BENNETT DESIGNED BY M. BUTCHER
JOB MANAGER M. BUTCHER
DESIGN SUPERVISOR D. JUDSON

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
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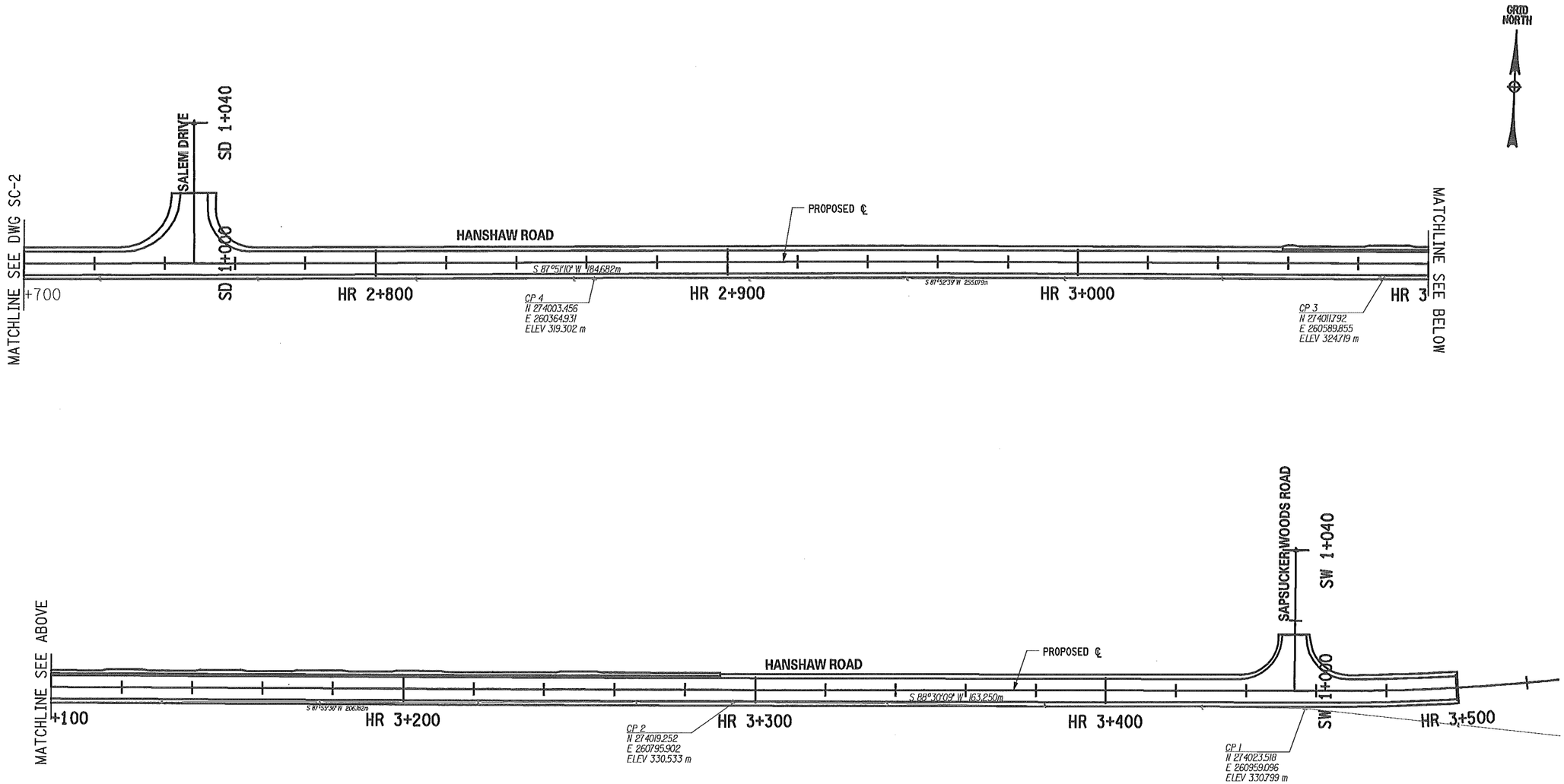

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STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER

5-28-2013

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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
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PIN 3753.25

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DRAWING NO. SC-3
SHEET NO. 13 OF 130

DOCUMENT NAME: 375325C_SC.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

ESTIMATED BY R. BENNETT CHECKED BY R. BENNETT

JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER

DESIGN SUPERVISOR D. JUDSON

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
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HANSHAW ROAD

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB (451)	HR 9+73.96	274234.47	258544.87
PC (452)	HR 9+94.59	274220.48	258560.02
TANGENT DIRECTION:	132°43'06"		
TANGENT LENGTH:	20.62		
ELEMENT: CIRCULAR			
PC (452)	HR 9+94.59	274220.48	258560.02
PI ( )	HR 10+46.60	274185.19	258598.24
CC (453)		274680.68	258984.95
PT (454)	HR 10+98.37	274156.69	258641.75
RADIUS:	626.38		
DELTA:	9°29'37" LEFT		
DEGREE OF CURVATURE(ARC):	9°08'50"		
LENGTH:	103.79		
TANGENT:	52.01		
CHORD:	103.67		
MIDDLE ORDINATE:	2.15		
EXTERNAL:	2.16		
TANGENT DIRECTION:	132°43'06"		
RADIAL DIRECTION:	222°43'06"		
CHORD DIRECTION:	127°58'18"		
RADIAL DIRECTION:	213°13'29"		
TANGENT DIRECTION:	123°13'29"		
ELEMENT: LINEAR			
PT (454)	HR 10+98.37	274156.69	258641.75
PC (460)	HR 11+40.78	274133.46	258677.22
TANGENT DIRECTION:	123°13'29"		
TANGENT LENGTH:	42.41		
ELEMENT: CIRCULAR			
PC (460)	HR 11+40.78	274133.46	258677.22
PI ( )	HR 11+78.77	274112.64	258709.00
CC (464)		271623.87	257033.45
PT (465)	HR 12+16.76	274091.03	258740.24
RADIUS:	3000.00		
DELTA:	1°27'04" RIGHT		
DEGREE OF CURVATURE(ARC):	1°54'35"		
LENGTH:	75.98		
TANGENT:	37.99		
CHORD:	75.98		
MIDDLE ORDINATE:	0.24		
EXTERNAL:	0.24		
TANGENT DIRECTION:	123°13'29"		
RADIAL DIRECTION:	213°13'29"		
CHORD DIRECTION:	123°57'01"		
RADIAL DIRECTION:	214°40'33"		
TANGENT DIRECTION:	124°40'33"		
ELEMENT: LINEAR			
PT (465)	HR 12+16.76	274091.03	258740.24
PC (461)	HR 12+28.18	274084.53	258749.63
TANGENT DIRECTION:	124°40'33"		
TANGENT LENGTH:	11.42		
ELEMENT: CIRCULAR			
PC (461)	HR 12+28.18	274084.53	258749.63
PI ( )	HR 12+73.86	274058.54	258787.20
CC (462)		274298.35	258897.56
PT (463)	HR 13+18.61	274046.92	258831.37
RADIUS:	260.00		
DELTA:	19°55'45" LEFT		
DEGREE OF CURVATURE(ARC):	22°02'13"		
LENGTH:	90.44		
TANGENT:	45.68		
CHORD:	89.98		
MIDDLE ORDINATE:	3.92		
EXTERNAL:	3.98		
TANGENT DIRECTION:	124°40'33"		
RADIAL DIRECTION:	214°40'33"		
CHORD DIRECTION:	114°42'40"		
RADIAL DIRECTION:	194°44'48"		
TANGENT DIRECTION:	104°44'48"		
ELEMENT: LINEAR			
PT (463)	HR 13+18.61	274046.92	258831.37
PI (466)	HR 14+70.48	274008.26	258978.24
TANGENT DIRECTION:	104°44'48"		
TANGENT LENGTH:	151.87		
ELEMENT: LINEAR			
PI (466)	HR 14+70.48	274008.26	258978.24
PC (368)	HR 15+23.44	273994.22	259029.31
TANGENT DIRECTION:	105°22'24"		
TANGENT LENGTH:	52.96		
ELEMENT: CIRCULAR			
PC (368)	HR 15+23.44	273994.22	259029.31
PI ( )	HR 15+72.82	273981.13	259076.92
CC (375)		274669.17	259214.88
PT (376)	HR 16+22.04	273974.85	259125.90
RADIUS:	700.00		
DELTA:	8°04'13" LEFT		
DEGREE OF CURVATURE(ARC):	8°11'06"		
LENGTH:	98.60		
TANGENT:	49.38		
CHORD:	98.52		
MIDDLE ORDINATE:	1.74		
EXTERNAL:	1.74		
TANGENT DIRECTION:	105°22'24"		
RADIAL DIRECTION:	195°22'24"		
CHORD DIRECTION:	101°20'17"		
RADIAL DIRECTION:	187°18'11"		
TANGENT DIRECTION:	97°18'11"		

HANSHAW ROAD CONT.

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
PT (376)	HR 16+22.04	273974.85	259125.90
PC (369)	HR 16+58.22	273970.25	259161.79
TANGENT DIRECTION:	97°18'11"		
TANGENT LENGTH:	36.18		
ELEMENT: CIRCULAR			
PC (369)	HR 16+58.22	273970.25	259161.79
PI ( )	HR 17+15.43	273962.98	259218.54
CC (377)		274565.38	259238.06
PT (378)	HR 17+72.30	273966.56	259275.64
RADIUS:	600.00		
DELTA:	10°53'37" LEFT		
DEGREE OF CURVATURE(ARC):	9°32'57"		
LENGTH:	114.08		
TANGENT:	57.21		
CHORD:	113.91		
MIDDLE ORDINATE:	2.71		
EXTERNAL:	2.72		
TANGENT DIRECTION:	97°18'11"		
RADIAL DIRECTION:	187°18'11"		
CHORD DIRECTION:	91°51'22"		
RADIAL DIRECTION:	176°24'34"		
TANGENT DIRECTION:	86°24'34"		
ELEMENT: LINEAR			
PT (378)	HR 17+72.30	273966.56	259275.64
PC (455)	HR 18+90.42	273973.96	259393.52
TANGENT DIRECTION:	86°24'34"		
TANGENT LENGTH:	118.12		
ELEMENT: CIRCULAR			
PC (455)	HR 18+90.42	273973.96	259393.52
PI ( )	HR 19+12.44	273975.34	259415.50
CC (456)		272476.90	259487.46
PT (459)	HR 19+34.46	273976.07	259437.51
RADIUS:	1500.00		
DELTA:	1°40'56" RIGHT		
DEGREE OF CURVATURE(ARC):	3°49'11"		
LENGTH:	44.04		
TANGENT:	22.02		
CHORD:	44.04		
MIDDLE ORDINATE:	0.16		
EXTERNAL:	0.16		
TANGENT DIRECTION:	86°24'34"		
RADIAL DIRECTION:	176°24'34"		
CHORD DIRECTION:	87°15'02"		
RADIAL DIRECTION:	178°05'30"		
TANGENT DIRECTION:	88°05'30"		
ELEMENT: LINEAR			
PT (459)	HR 19+34.46	273976.07	259437.51
PI (457)	HR 21+23.11	273982.35	259626.06
TANGENT DIRECTION:	88°05'30"		
TANGENT LENGTH:	188.65		
ELEMENT: LINEAR			
PI (457)	HR 21+23.11	273982.35	259626.06
PI (372)	HR 27+16.14	274002.35	260218.75
TANGENT DIRECTION:	88°04'04"		
TANGENT LENGTH:	593.03		
ELEMENT: LINEAR			
PI (372)	HR 27+16.14	274002.35	260218.75
PI (458)	HR 29+49.64	274011.57	260452.07
TANGENT DIRECTION:	87°44'17"		
TANGENT LENGTH:	233.50		
ELEMENT: LINEAR			
PI (458)	HR 29+49.64	274011.57	260452.07
PI (561)	HR 32+70.20	274021.96	260772.46
TANGENT DIRECTION:	88°08'31"		
TANGENT LENGTH:	320.55		
ELEMENT: LINEAR			
PI (561)	HR 32+70.20	274021.96	260772.46
PC (562)	HR 34+64.44	274028.74	260966.58
TANGENT DIRECTION:	88°00'02"		
TANGENT LENGTH:	194.25		
ELEMENT: CIRCULAR			
PC (562)	HR 34+64.44	274028.74	260966.58
PI ( )	HR 34+97.95	274029.90	261000.07
CC (563)		274653.35	260944.78
PT (564)	HR 35+31.39	274034.65	261033.24
RADIUS:	625.00		
DELTA:	6°08'15" LEFT		
DEGREE OF CURVATURE(ARC):	9°10'02"		
LENGTH:	66.95		
TANGENT:	33.51		
CHORD:	66.92		
MIDDLE ORDINATE:	0.90		
EXTERNAL:	0.90		
TANGENT DIRECTION:	88°00'02"		
RADIAL DIRECTION:	178°00'02"		
CHORD DIRECTION:	84°55'55"		
RADIAL DIRECTION:	171°51'48"		
TANGENT DIRECTION:	81°51'48"		
ELEMENT: LINEAR			
PT (564)	HR 35+31.39	274034.65	261033.24
PC (565)	HR 35+38.31	274035.63	261040.09
TANGENT DIRECTION:	81°51'48"		
TANGENT LENGTH:	6.92		

HANSHAW ROAD CONT.

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (565)	HR 35+38.31	274035.63	261040.09
PI ( )	HR 35+89.82	274042.92	261091.08
CC (566)		274208.86	261015.32
PT (567)	HR 36+38.51	274076.67	261130.00
RADIUS:	175.00		
DELTA:	32°48'21" LEFT		
DEGREE OF CURVATURE(ARC):	32°44'26"		
LENGTH:	100.20		
TANGENT:	51.52		
CHORD:	98.84		
MIDDLE ORDINATE:	7.12		
EXTERNAL:	7.42		
TANGENT DIRECTION:	81°51'48"		
RADIAL DIRECTION:	171°51'48"		
CHORD DIRECTION:	65°27'37"		
RADIAL DIRECTION:	139°03'27"		
TANGENT DIRECTION:	49°03'27"		
ELEMENT: LINEAR			
PT (567)	HR 36+38.51	274076.67	261130.00
POE (568)	HR 36+94.80	274113.56	261172.52
TANGENT DIRECTION:	49°03'27"		
TANGENT LENGTH:	56.29		

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PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SURVEY CONTROL

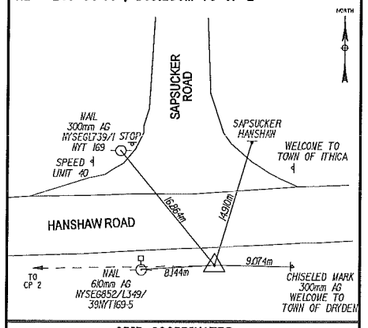
FISHER ASSOCIATES

DRAWING NO. SC-4
SHEET NO. 14 OF 130

DOCUMENT NAME: 375325D_SC.DGN

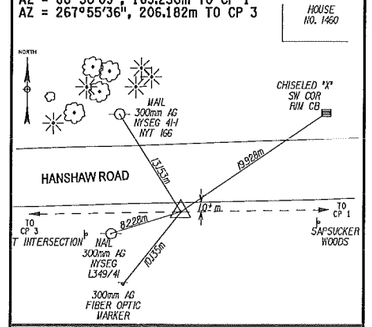
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

CP 1
ø5 REBAR W/ ALUMINUM CAP STAMPED "FA 1" SET FLUSH IN GROUND NEAR SAPSUCKER ROAD ON THE SOUTH SIDE OF HANSHAW ROAD.
AZ = 268°30'09", 163.250m TO CP 2



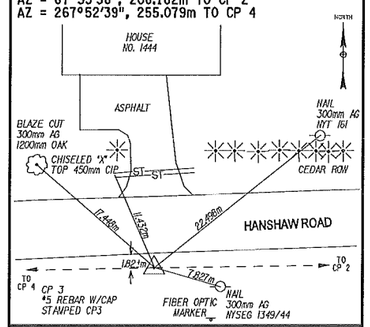
GRID COORDINATES
N = 274023.518
E = 260,959.096
ELEV = 330.799m

CP 2
ø5 REBAR W/ ALUMINUM CAP STAMPED "FA 2" SET FLUSH IN GROUND 1.00±m SOUTH OF THE EDGE OF PAVEMENT ON THE SOUTH SIDE OF HANSHAW ROAD.
AZ = 88°30'09", 163.250m TO CP 1
AZ = 267°55'36", 206.182m TO CP 3



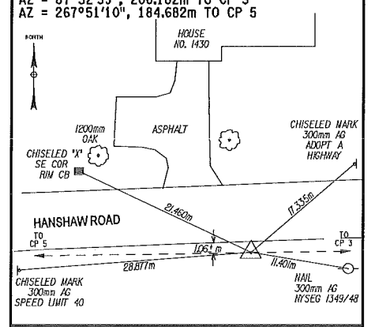
GRID COORDINATES
N = 274019.252
E = 260795.902
ELEV = 330.533m

CP 3
ø5 REBAR W/ ALUMINUM CAP STAMPED "FA 3" SET FLUSH IN GROUND 1.82±m SOUTH OF THE EDGE OF PAVEMENT ON THE SOUTH SIDE OF HANSHAW ROAD.
AZ = 87°55'36", 206.182m TO CP 2
AZ = 267°52'39", 255.079m TO CP 4



GRID COORDINATES
N = 274011.792
E = 260589.855
ELEV = 324.719m

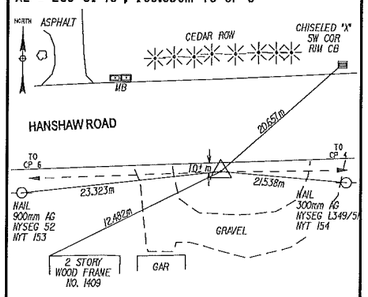
CP 4
ø5 REBAR W/ ALUMINUM CAP STAMPED "FA 4" SET FLUSH IN GROUND 1.06±m SOUTH OF THE EDGE OF PAVEMENT ON THE SOUTH SIDE OF HANSHAW ROAD.
AZ = 87°52'39", 206.182m TO CP 3
AZ = 267°51'10", 184.682m TO CP 5



GRID COORDINATES
N = 274003.456
E = 260364.931
ELEV = 319.302m

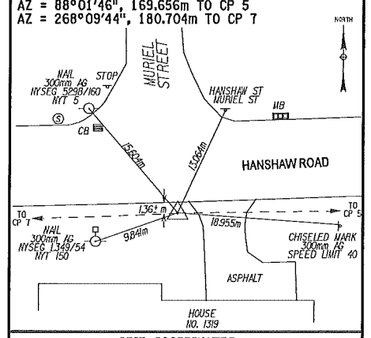
GRID NORTH

CP 5
ø5 REBAR W/ ALUMINUM CAP STAMPED "FA 5" SET FLUSH IN GROUND 1.00±m SOUTH OF THE EDGE OF PAVEMENT ON THE SOUTH SIDE OF HANSHAW ROAD.
AZ = 87°51'10", 184.682m TO CP 4
AZ = 268°01'46", 169.656m TO CP 6



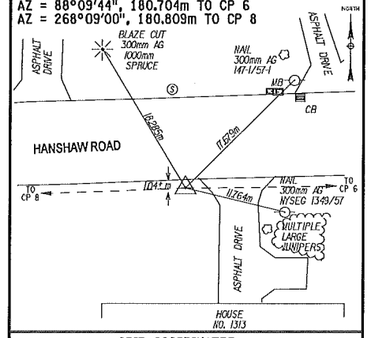
GRID COORDINATES
N = 273996.536
E = 260180.378
ELEV = 313.639m

CP 6
ø5 REBAR W/ ALUMINUM CAP STAMPED "FA 6" SET FLUSH IN GROUND 1.36±m SOUTH OF THE EDGE OF PAVEMENT ON THE SOUTH SIDE OF HANSHAW ROAD.
AZ = 88°01'46", 169.656m TO CP 5
AZ = 268°09'44", 180.704m TO CP 7



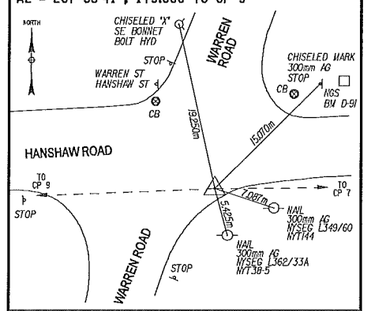
GRID COORDINATES
N = 273990.702
E = 260010.822
ELEV = 306.435m

CP 7
ø5 REBAR W/ ALUMINUM CAP STAMPED "FA 7" SET FLUSH IN GROUND 1.04±m SOUTH OF THE EDGE OF PAVEMENT ON THE SOUTH SIDE OF HANSHAW ROAD.
AZ = 88°09'44", 180.704m TO CP 6
AZ = 268°09'00", 180.809m TO CP 8



GRID COORDINATES
N = 273984.907
E = 259830.211
ELEV = 299.354m

CP 8
RAILROAD SPIKE STAMPED "FA 8" SET FLUSH IN PAVEMENT AT THE SOUTHEAST CORNER OF HANSHAW ROAD AND WARREN ROAD.
AZ = 88°09'00", 180.809m TO CP 7
AZ = 267°53'41", 179.888 TO CP 9



GRID COORDINATES
N = 273979.070
E = 259649.496
ELEV = 294.557m

NOTES:

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ELEVATIONS ARE BASED ON A PROJECT DATUM THROUGH REFERENCE TO NYSEG MONUMENT T303. ELEVATION OF MONUMENT T303 AS PROVIDED TOMPKINS COUNTY HIGHWAY DEPARTMENT IS 330.130 m.

ALL UNITS ARE IN METERS, UNLESS OTHERWISE NOTED.

DISTANCES SHOWN HEREON ARE GRID WITH A COMBINED SCALE FACTOR OF 0.99989643.

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SURVEY CONTROL PLANS

FISHER ASSOCIATES

DRAWING NO. SC-5
SHEET NO. 15 OF 130

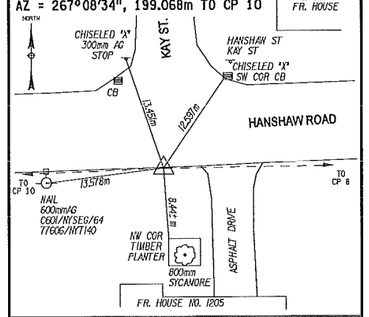
DOCUMENT NAME: 375325E_SC.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

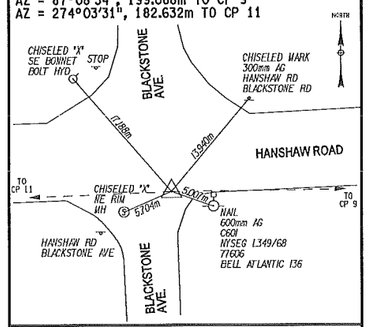
FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

CP 9
#5 REBAR W/ ALUMINUM CAP STAMPED "FA 9" SET FLUSH IN GROUND SOUTH OF THE EDGE OF PAVEMENT ON THE SOUTH SIDE OF HANSHAW ROAD.
AZ = 87°53'41", 179.888m TO CP 8
AZ = 267°08'34", 199.068m TO CP 10



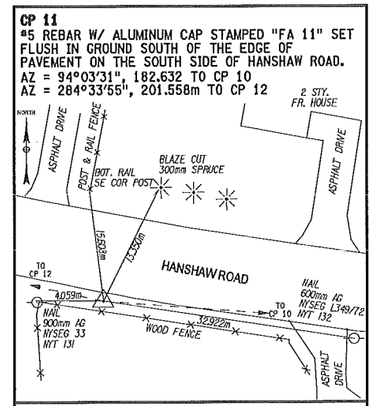
GRID COORDINATES
N = 273972.462
E = 259469.729
ELEV = 290.510m

CP 10
RAILROAD SPIKE STAMPED "FA 10" SET FLUSH IN PAVEMENT AT THE SOUTHEAST CORNER OF HANSHAW ROAD AND BLACKSTONE AVENUE.
AZ = 87°08'34", 199.068m TO CP 9
AZ = 274°03'31", 182.632m TO CP 11



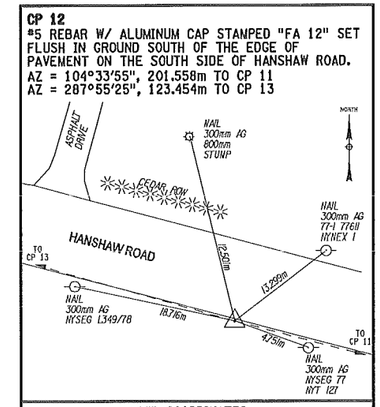
GRID COORDINATES
N = 273962.539
E = 259270.909
ELEV = 290.804m

CP 11
#5 REBAR W/ ALUMINUM CAP STAMPED "FA 11" SET FLUSH IN GROUND SOUTH OF THE EDGE OF PAVEMENT ON THE SOUTH SIDE OF HANSHAW ROAD.
AZ = 94°03'31", 182.632 TO CP 10
AZ = 284°33'55", 201.558m TO CP 12



GRID COORDINATES
N = 273975.465
E = 259088.735
ELEV = 290.736m

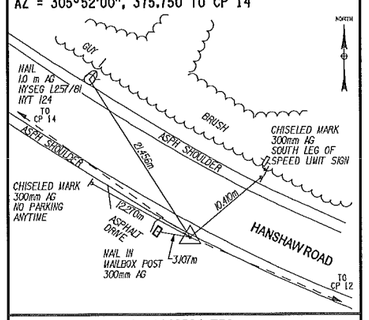
CP 12
#5 REBAR W/ ALUMINUM CAP STAMPED "FA 12" SET FLUSH IN GROUND SOUTH OF THE EDGE OF PAVEMENT ON THE SOUTH SIDE OF HANSHAW ROAD.
AZ = 104°33'55", 201.558m TO CP 11
AZ = 287°55'25", 123.454m TO CP 13



GRID COORDINATES
N = 274026.154
E = 258893.655
ELEV = 289.493m

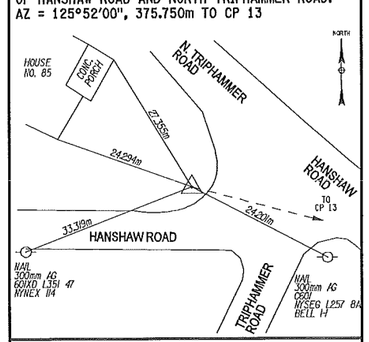
GRID NORTH

CP 13
#5 REBAR W/ ALUMINUM CAP STAMPED "FA 13" SET FLUSH IN GROUND SOUTH OF THE EDGE OF PAVEMENT ON THE SOUTH SIDE OF HANSHAW ROAD.
AZ = 107°55'25", 123.454 TO CP 12
AZ = 305°52'00", 375.750 TO CP 14



GRID COORDINATES
N = 274064.147
E = 258776.192
ELEV = 284.232m

CP 14
#5 REBAR W/ ALUMINUM CAP STAMPED "FA 14" SET FLUSH IN GROUND AT THE NORTHWEST CORNER OF HANSHAW ROAD AND NORTH TRIPHAMMER ROAD.
AZ = 125°52'00", 375.750m TO CP 13



GRID COORDINATES
N = 274284.299
E = 258471.690
ELEV = 275.342 m

NOTES:

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DISTANCES SHOWN HEREON ARE GRID WITH A COMBINED SCALE FACTOR OF 0.99989643.

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

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SURVEY CONTROL PLANS

FISHER ASSOCIATES

DRAWING NO. SC-6
SHEET NO. 16 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DOCUMENT NAME: 375325E_SC.DGN

GENERAL SEQUENCE OF CONSTRUCTION

THE PROJECT CORRIDOR HAS BEEN DIVIDED INTO 3 PHASES:

PHASE 1 - RELOCATE UTILITIES INCLUDING GAS MAIN, UTILITY POLES AND WATERMAIN. BEGIN THE WARREN ROAD SIGNAL INSTALLATION, SHIM DETERIORATED AREAS OF THE NORTH SHOULDER WITH TEMPORARY ASPHALT IN PREPARATION FOR SHIFTED TRAFFIC DURING PHASE 2.

IT IS ANTICIPATED THAT PHASE ONE WILL BE COMPLETED UTILIZING SHIFTED TWO-WAY TRAFFIC AND SHORT TERM LANE CLOSURES WITH ALTERNATING ONE-WAY TRAFFIC.

PHASE 2 - DRAINAGE INSTALLATION, NEW GUTTER AND PAVEMENT REHABILITATION / RECONSTRUCTION.

ALL PAVEMENT AND DRAINAGE WORK WILL BE COMPLETED DURING PHASE 2. THE ONE-WAY DETOUR WILL BE IN PLACE DURING THIS PHASE, PROVIDING ADDITIONAL ROOM FOR CONSTRUCTION OPERATIONS FOR THE ENTIRE PROJECT LENGTH. EASTBOUND TRAFFIC WILL BE MAINTAINED, SHIFTING BETWEEN THE EASTBOUND SIDE AND THE WESTBOUND SIDE OF HANSHAW ROAD. PHASE 2 HAS BEEN DIVIDED INTO THE FOLLOWING SUBSTAGES AS DESCRIBED BELOW AND AS SHOWN ON THE TRAFFIC CONTROL SECTIONS.

PHASE 2, STAGE 1A & 1B - TRAFFIC IS SHIFTED TO THE LEFT (WESTBOUND) SIDE OF HANSHAW ROAD. THE EASTBOUND DRAINAGE, SIDEWALK, ROADWAY AND SHOULDER SUBBASE WORK AND UNDERDRAIN ARE COMPLETED. IN AREAS OF PAVEMENT RECLAMATION AND RECONSTRUCTION THE BINDER COURSE OF ASPHALT IS CONSTRUCTED.

PHASE 2, STAGE 2 - TRAFFIC IS SHIFTED TO THE RIGHT (EASTBOUND) SIDE OF HANSHAW ROAD. THE WESTBOUND DRAINAGE, ROADWAY AND SHOULDER SUBBASE WORK AND UNDERDRAIN ARE COMPLETED. IN AREAS OF PAVEMENT RECLAMATION AND RECONSTRUCTION THE BASE COURSE AND BINDER COURSE OF ASPHALT IS CONSTRUCTED. ALL UNDERGROUND SIGNAL WORK SHALL BE COMPLETED BY THE CONCLUSION OF STAGE 2.

PHASE 2, STAGE 3 - TRAFFIC IS SHIFTED TO THE LEFT (WESTBOUND) SIDE OF HANSHAW ROAD. THE EASTBOUND MILLING IS PERFORMED AND THE TOP COURSE ASPHALT IS INSTALLED FOR THE ENTIRE EASTBOUND SIDE.

PHASE 2, STAGE 4 - TRAFFIC IS SHIFTED TO THE RIGHT (EASTBOUND) SIDE OF HANSHAW ROAD. THE WESTBOUND MILLING IS PERFORMED AND THE TOP COURSE ASPHALT IS INSTALLED FOR THE ENTIRE WESTBOUND SIDE.

PHASE 3 - WILL INCLUDE GUIDERAIL INSTALLATION, SIGNS, STRIPING, LANDSCAPING, TOPSOIL AND SEEDING.

IT IS ANTICIPATED THAT PHASE THREE WILL BE COMPLETED UTILIZING SHIFTED TWO-WAY TRAFFIC AND SHORT TERM LANE CLOSURES WITH ALTERNATING ONE-WAY TRAFFIC.

PROJECT SPECIFIC MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

1. WORK ZONE TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH SECTION 619 OF THE NYSDOT STANDARD SPECIFICATIONS, THE APPROPRIATE 619 SERIES NYSDOT STANDARD SHEETS AND THE NATIONAL MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NYS SUPPLEMENT.
2. THE AADT AND OPERATING SPEED ARE AS FOLLOWS:

DESCRIPTION	AADT	DESIGN SPEED
HANSHAW ROAD (WEST OF WARREN)	7850	60 KM/H (37 MPH)
HANSHAW ROAD (EAST OF WARREN)	5055	80 KM/H (50 MPH)

3. SHORT TERM LANE CLOSURES WILL NOT BE ALLOWED FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM, MONDAY THROUGH FRIDAY. DURING NONWORKING HOURS, TWO-WAY UNRESTRICTED TRAFFIC WILL BE MAINTAINED AT ALL TIMES EXCEPT AS SHOWN IN THESE PLANS.
4. NO NIGHT WORK SHALL BE ALLOWED UNLESS APPROVED PRIOR TO START OF PROJECT. ADDITIONAL MAINTENANCE AND PROTECTION OF TRAFFIC MAY BE REQUIRED INCLUDING THE ADDITION OF REFLECTIVE MATERIALS AND LIGHTING.
5. SIDEWALK INSTALLATION AND LANDSCAPING MUST BE 100% COMPLETE BY MARCH 1, 2014.

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PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

TRAFFIC CONTROL NOTES

FISHERASSOCIATES

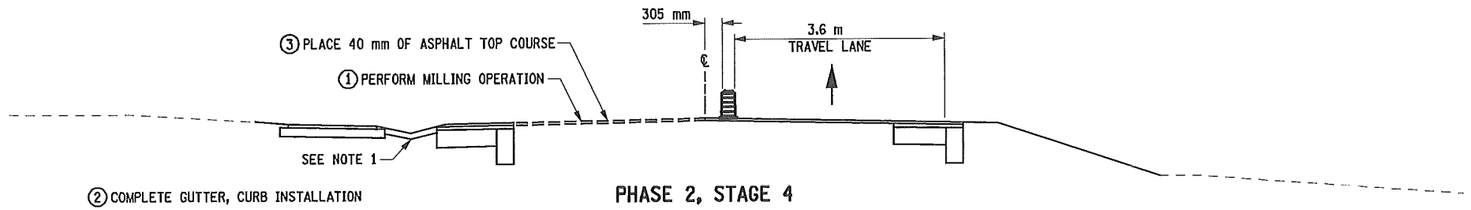
DRAWING NO. TCP-1
SHEET NO. 17 OF 130

DOCUMENT NAME: 375325A_TCP.DGN

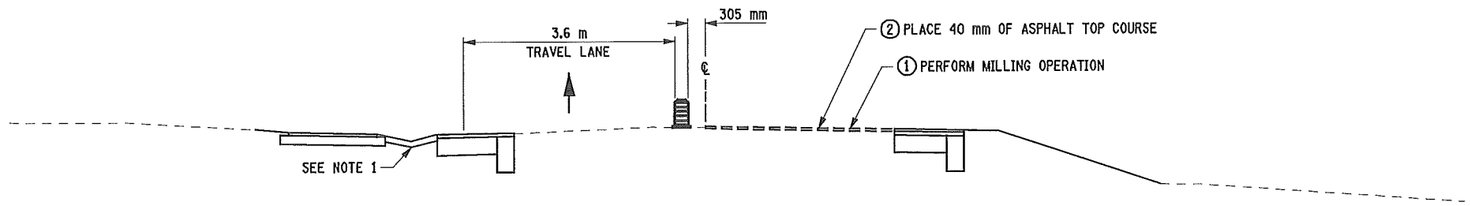
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

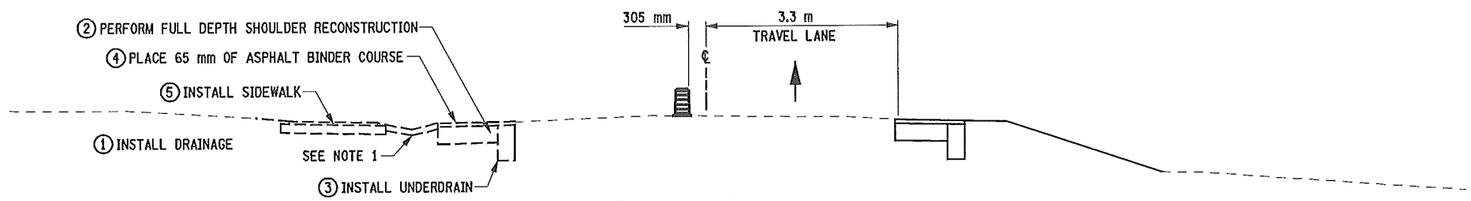
FILE NAME = DGN9SPEC
DATE/TIME = 5/14/2013
USER = MARKB



PHASE 2, STAGE 4

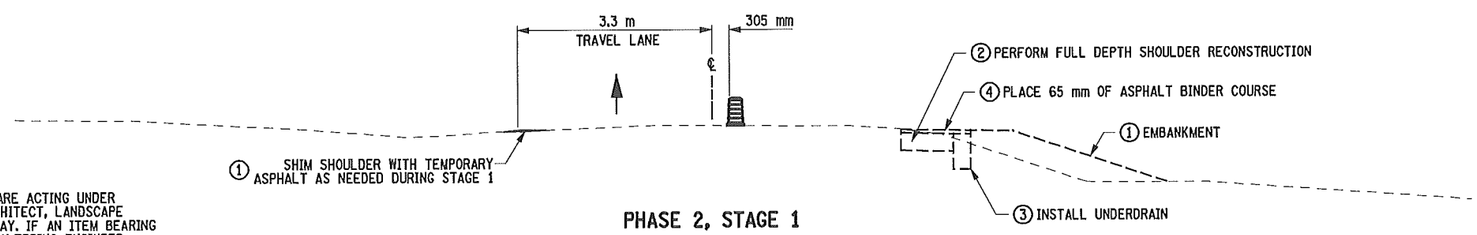


PHASE 2, STAGE 3



PHASE 2, STAGE 2

STAGE 2 NOTE:
LEAVE GAPS IN PROPOSED GUTTER/CURB AT DRAINAGE STRUCTURES TO ALLOW FOR DRAINAGE.



PHASE 2, STAGE 1

NOTES:

1. GUTTER SHOWN, REFER TO TYPICAL SECTIONS AND PLANS FOR LOCATION OF GUTTER, CURB, OR SWALE.

SHOWS DIRECTION AND SIDE OF TRAFFIC

① ORDER OF OPERATIONS

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PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

HANSHAW ROAD - MILL AND RESURFACE

STA. HR 1+140 TO STA. HR 1+850

AS BUILT REVISIONS DESCRIPTION OF WORK: SIGNATURE DATE	RECONSTRUCTION OF HANSHAW ROAD COUNTY ROUTE 109	PIN 3753.25	BRIDGES	CULVERTS	ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED
	TOWN OF ITHACA	PS&E DATE MAY 2013			TYPICAL STAGING SECTIONS
	VILLAGE OF CAYUGA HEIGHTS				
	COUNTY: TOMPKINS				

FISHERASSOCIATES

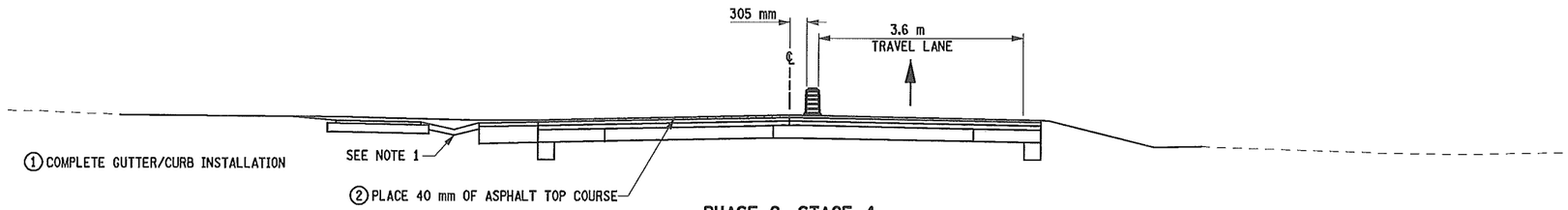
DRAWING NO. TCP-2
SHEET NO. 18 OF 130

DOCUMENT NAME: 375325B_TCP.DGN

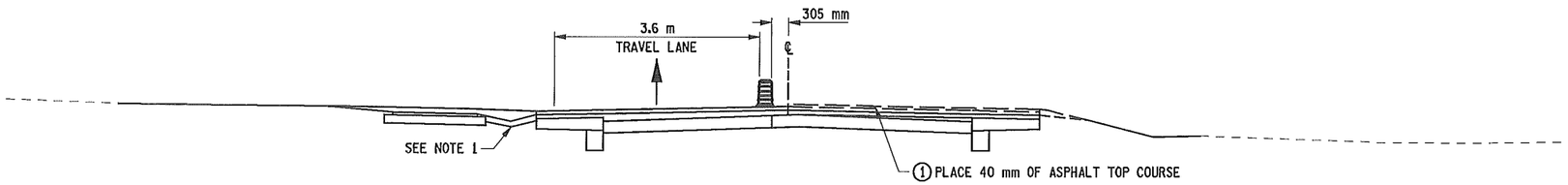
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

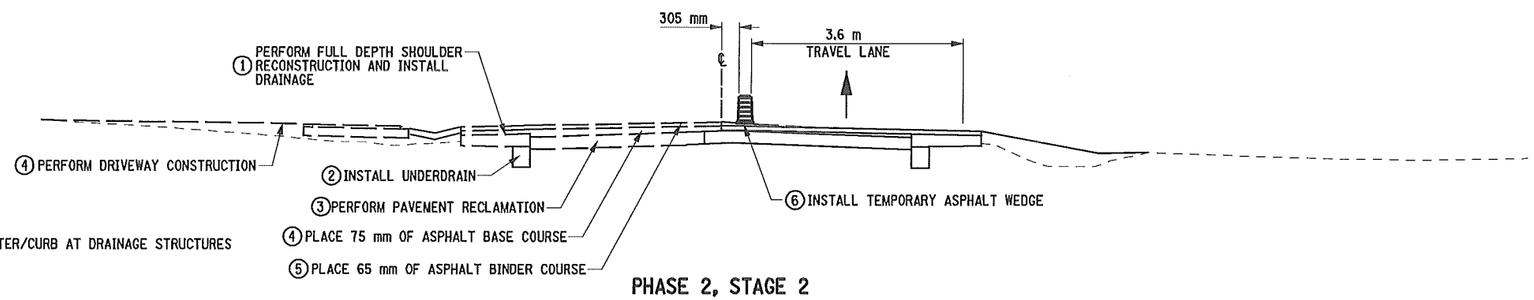
FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



PHASE 2, STAGE 4



PHASE 2, STAGE 3

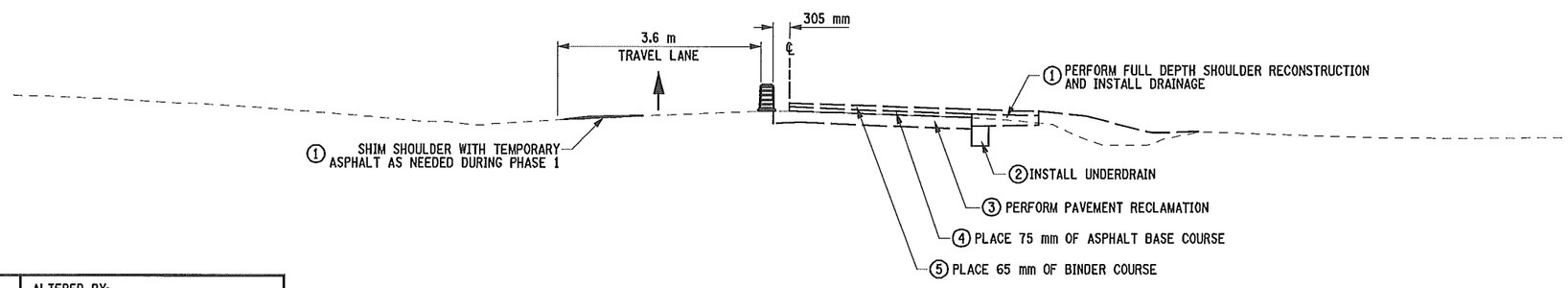


STAGE 2 NOTE:
LEAVE GAPS IN PROPOSED GUTTER/CURB AT DRAINAGE STRUCTURES TO ALLOW FOR DRAINAGE.

PHASE 2, STAGE 2

NOTES:

1. GUTTER SHOWN, REFER TO TYPICAL SECTIONS AND PLANS FOR LOCATION OF GUTTER, CURB, OR SWALE.



PHASE 2, STAGE 1A & 1B

SHOWS DIRECTION AND SIDE OF TRAFFIC

① ORDER OF OPERATIONS

1 0 1 2 3 m
SCALE IN METERS

HANSHAW ROAD - FULL DEPTH RECLAMATION

STA. HR 1+850 TO STA. HR 2+100
STA. HR 2+200 TO STA. HR 3+230
STA. HR 3+310 TO STA. HR 3+500

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PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: 375325C_TCP.DGN

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

TYPICAL STAGING SECTIONS

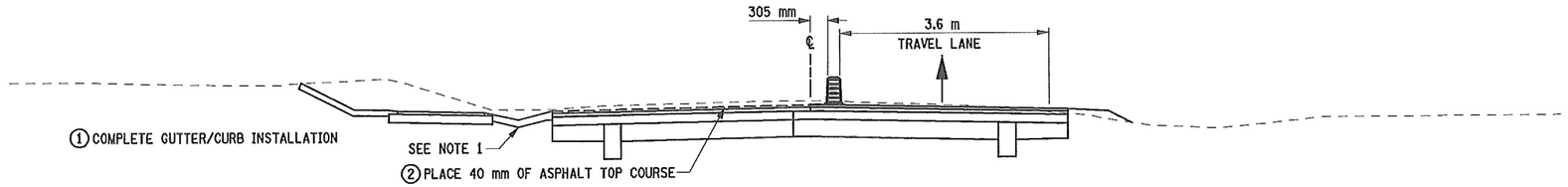
FISHERASSOCIATES

DRAWING NO. TCP-3
SHEET NO. 19 OF 130

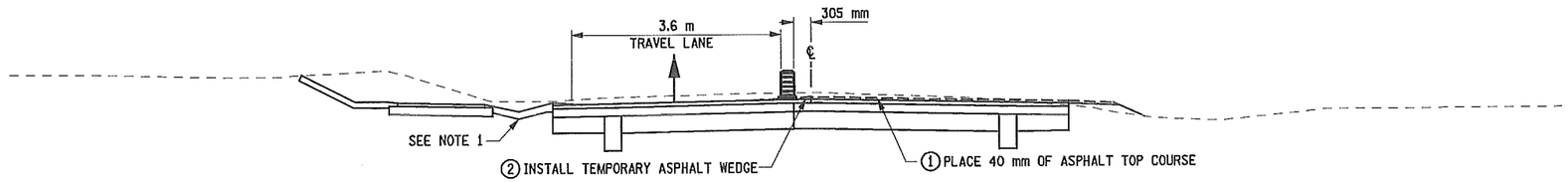
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



PHASE 2, STAGE 4



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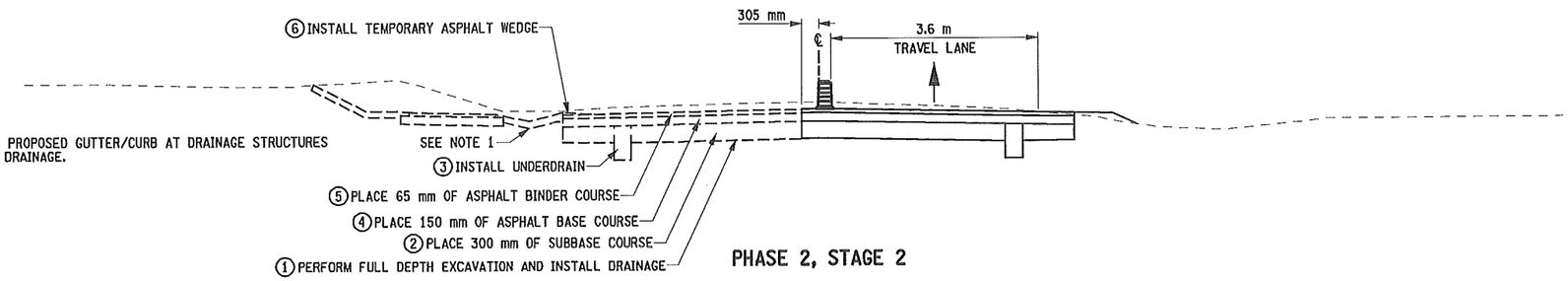
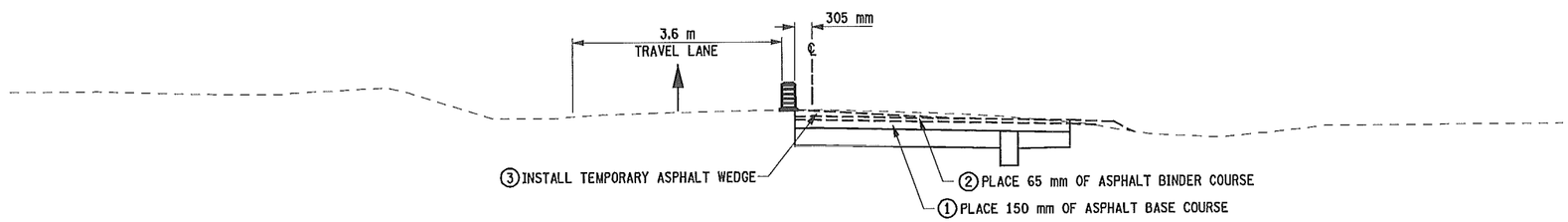
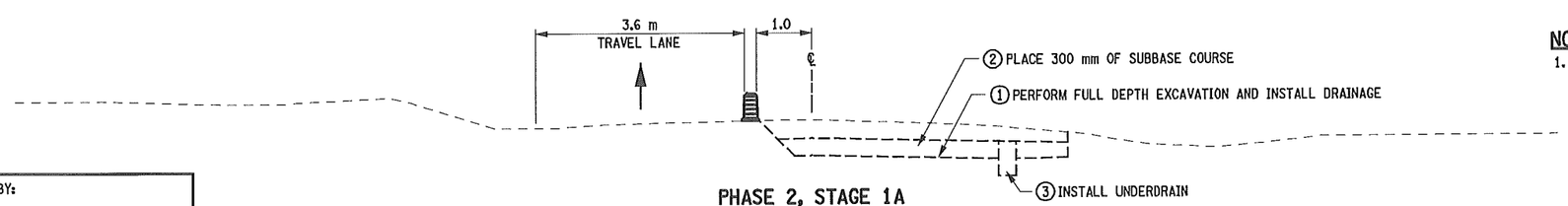


STAGE 2 NOTE:
LEAVE GAPS IN PROPOSED GUTTER/CURB AT DRAINAGE STRUCTURES TO ALLOW FOR DRAINAGE.

PHASE 2, STAGE 2



PHASE 2, STAGE 1B



PHASE 2, STAGE 1A

HANSHAW ROAD - FULL DEPTH RECONSTRUCTION

STA. HR 2+100 TO STA. HR 2+200
STA. HR 3+230 TO STA. HR 3+310

NOTES:

1. GUTTER SHOWN, REFER TO TYPICAL SECTIONS AND PLANS FOR LOCATION OF GUTTER, CURB, OR SWALE.

↑ SHOWS DIRECTION AND SIDE OF TRAFFIC

① ORDER OF OPERATIONS

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE _____ DATE _____

DOCUMENT NAME: 375325D_TCP.DGN

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

TYPICAL STAGING SECTIONS

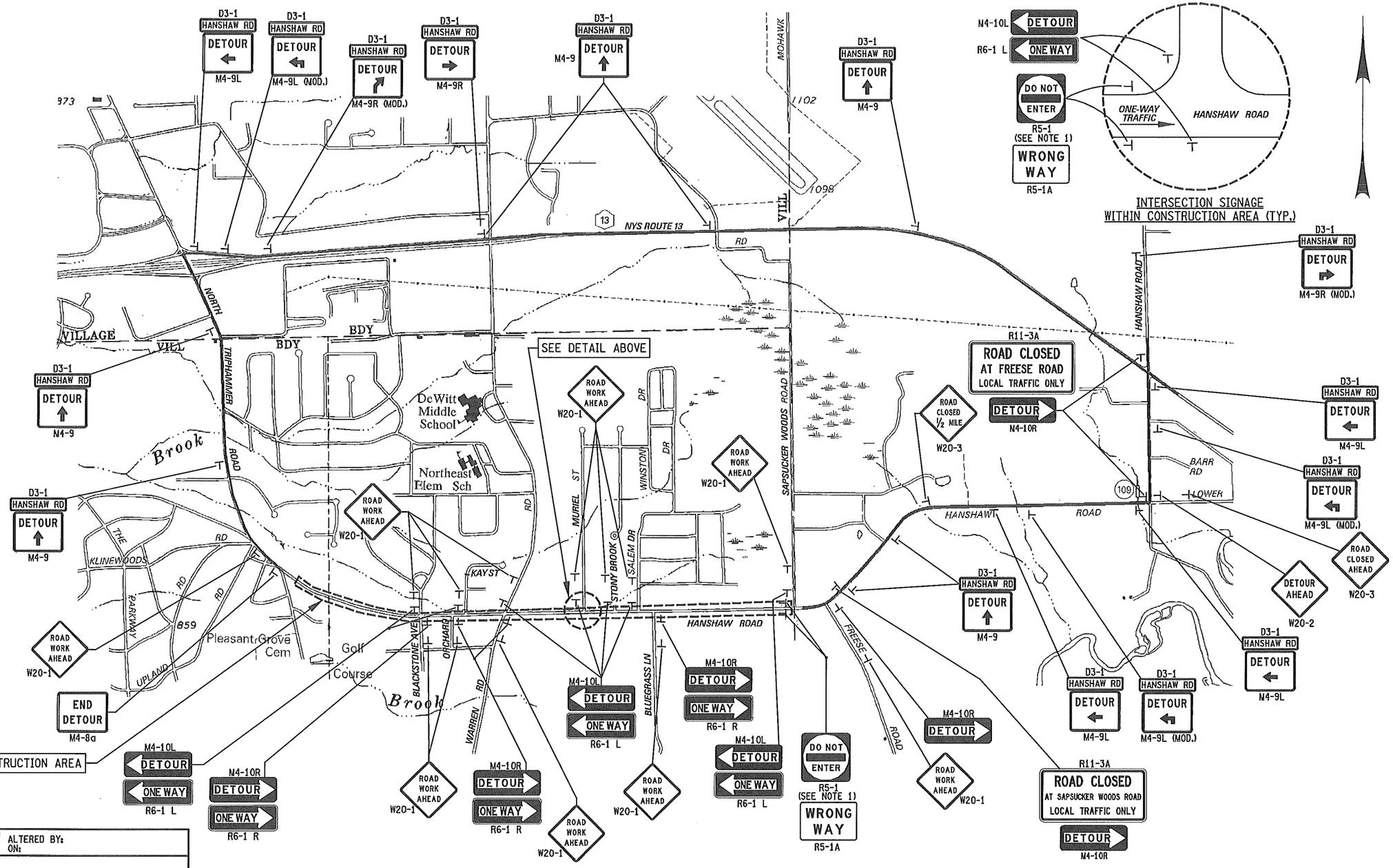
FISHER ASSOCIATES

DRAWING NO. TCP-4
SHEET NO. 20 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



DETOUR PLAN
(MAINTAIN ONE-WAY TRAFFIC EASTBOUND)
(NOT TO SCALE)

NOTE:

1. ADDITIONAL DO NOT ENTER SIGNS (R5-1) SHALL BE PLACED AT THE WEST SIDE OF INTERSECTIONS WITH INTERVENING STREETS INSIDE THE WORK ZONE (9 LOCATIONS, 18 ADDITIONAL SIGNS).

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PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-16-2013

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

DETOUR PLAN

FISHER ASSOCIATES

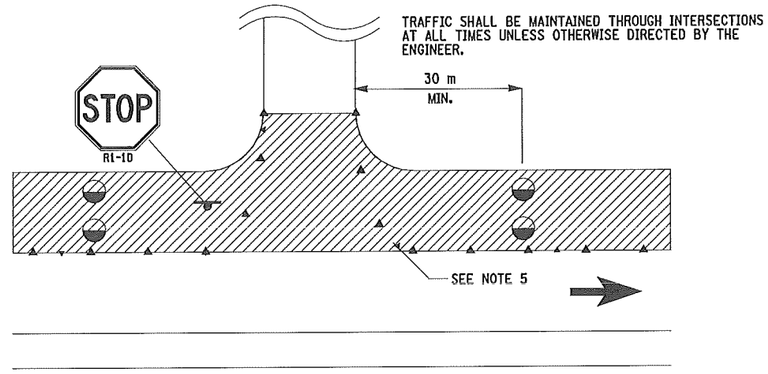
DRAWING NO. TCP-5
SHEET NO. 21 OF 130

DOCUMENT NAME: 375325E_TCP.DGN

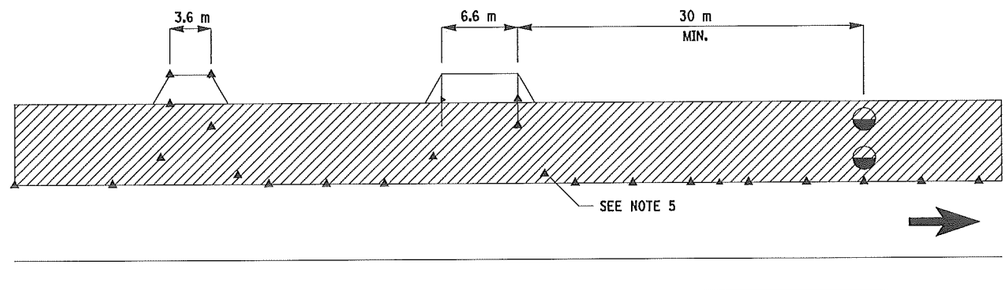
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY ____ DRAFTED BY T. DAVIS ____ CHECKED BY M. BUTCHER



TYPICAL DELINEATION FOR INTERSECTIONS



TYPICAL DELINEATION FOR DRIVEWAYS

DRIVEWAY NOTES:

1. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE DRIVEWAY ENTRANCE TO ALL COMMERCIAL AND RESIDENTIAL PROPERTIES.
2. WHEN IT IS NECESSARY TO CLOSE A COMMERCIAL DRIVEWAY DUE TO CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROVIDE FULL TIME (AUTO & PEDESTRIAN) INGRESS AND EGRESS FOR MAJOR ACTIVITY CENTERS/BUSINESSES BY EXISTING SIDE STREET ACCESS OR BY PROVIDING ONE TEMPORARY DRIVEWAY & SIDEWALK WHERE PRACTICAL.
3. THE CONTRACTOR MUST NOTIFY THE PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF CLOSING THEIR DRIVEWAY.
4. ALL RESIDENTIAL DRIVEWAYS SHALL BE REOPENED WITHIN 24 HOURS OF BEING CLOSED OR A.O.B.E..
5. FOR OVERNIGHT APPLICATIONS DRUMS SHALL BE USED IN PLACE OF CONES.

LEGEND:

- DIRECTION OF TRAVEL
- DRUM
- CONE
- WORK AREA

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PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

DAILY INTERSECTION TREATMENTS

(NIGHTTIME USE ALL DRUMS)

TYPICAL DELINEATION AND SIGNING FOR UNSIGNALIZED INTERSECTION RECONSTRUCTION

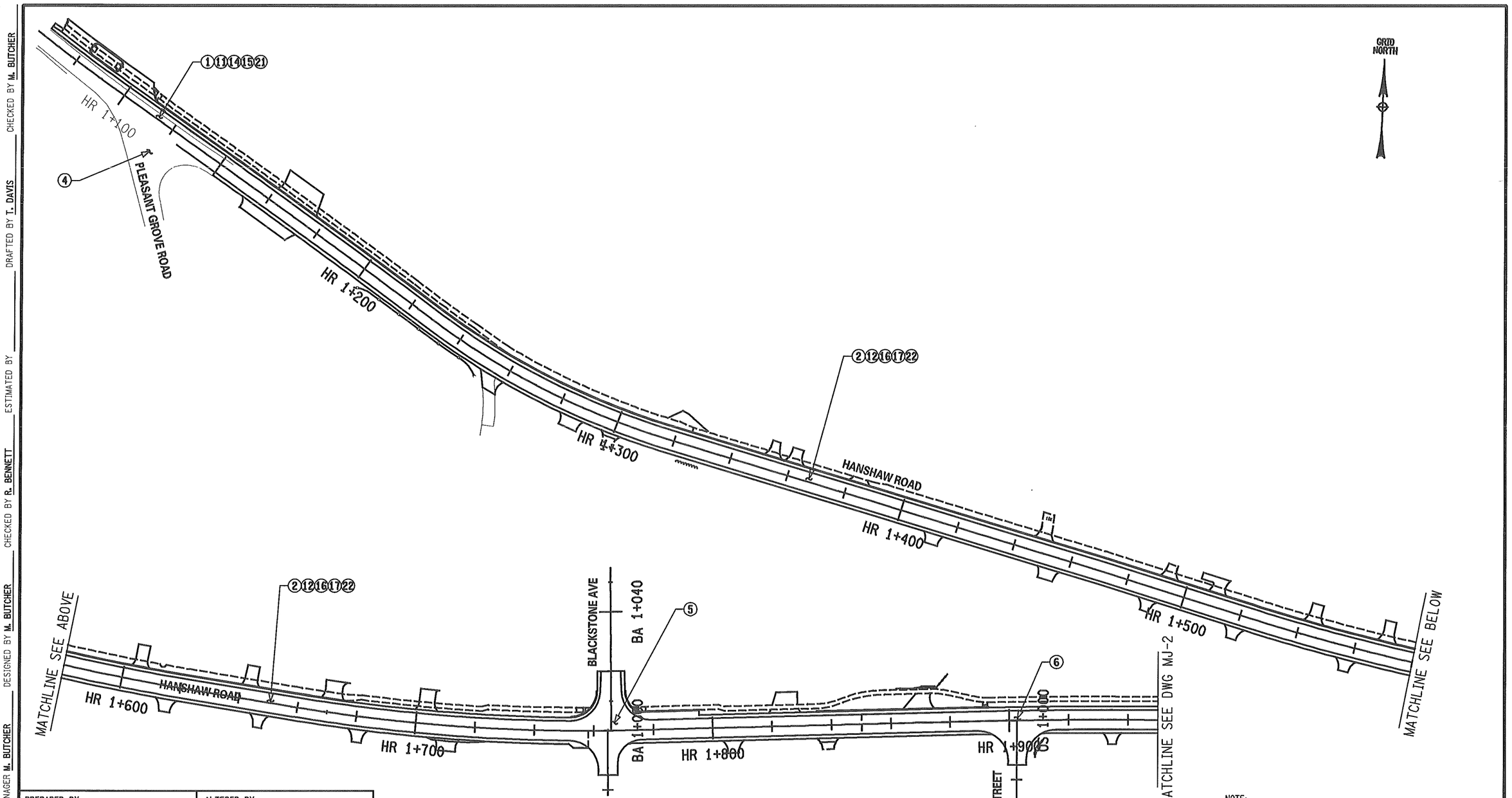
AS BUILT REVISIONS DESCRIPTION OF WORK: SIGNATURE DATE	RECONSTRUCTION OF HANSHAW ROAD COUNTY ROUTE 109	PIN 3753.25	BRIDGES	CULVERTS	ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED
	TOWN OF ITHACA	PS&E DATE MAY 2013			TYPICAL TRAFFIC CONTROL DETAILS
	VILLAGE OF CAYUGA HEIGHTS				FISHER ASSOCIATES
	COUNTY: TOMPKINS				DRAWING NO. TCP-6 SHEET NO. 22 OF 130

DOCUMENT NAME: 375325F_TCP.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



NOTE:

1. SEE DWG. MJ-4 FOR MAINTENANCE JURISDICTION TABLE.

50 0 100 200 250 m
SCALE

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

MAINTENANCE JURISDICTION PLAN

FISHERASSOCIATES

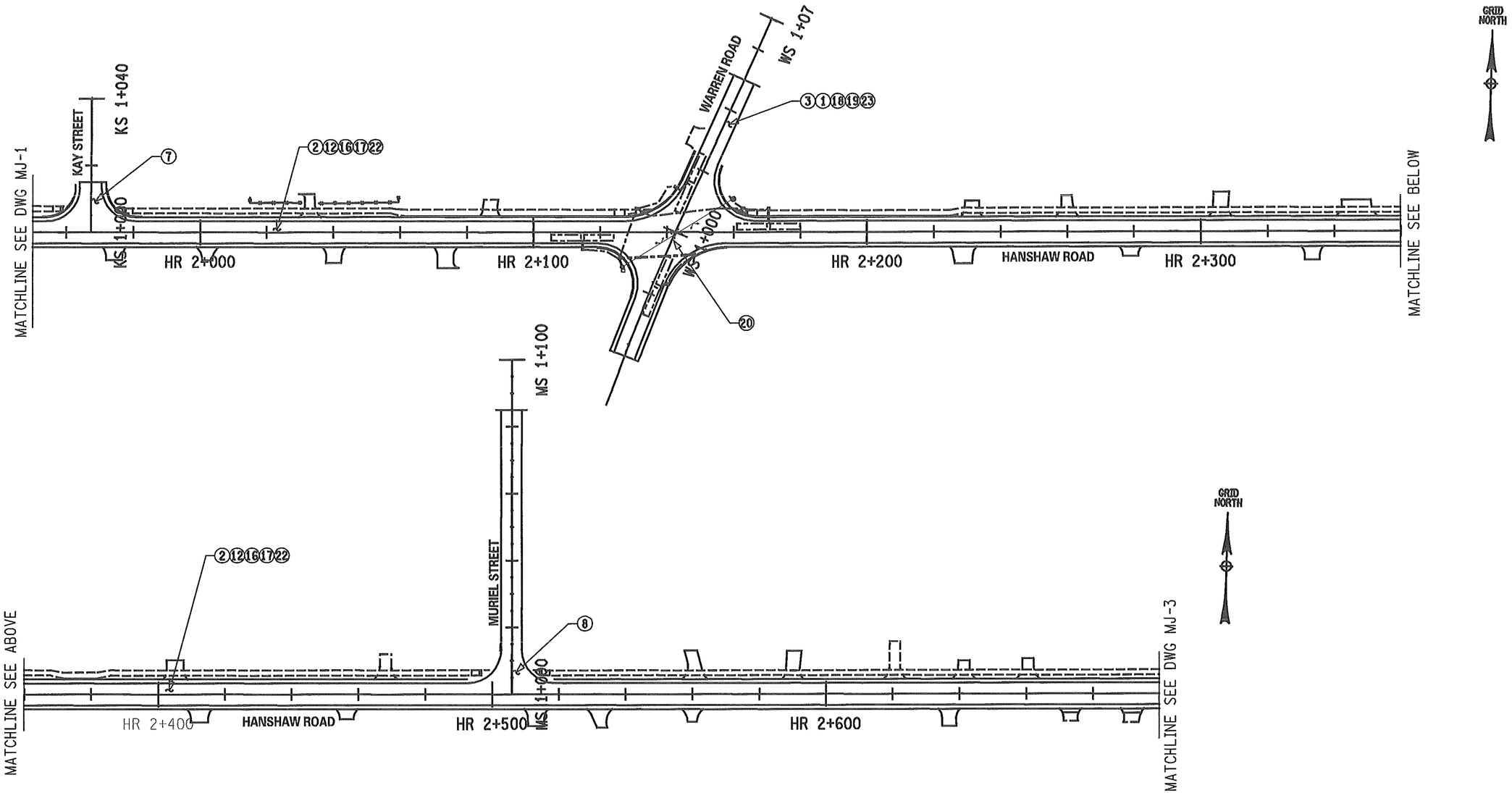
DRAWING NO. MJ-1
SHEET NO. 23 OF 130

DOCUMENT NAME: 375325A_MJ.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



PREPARED BY: ON:	ALTERED BY: ON:

STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-28-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NOTE:

1. SEE DWG. MJ-4 FOR MAINTENANCE JURISDICTION TABLE.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

MAINTENANCE JURISDICTION PLAN

FISHER ASSOCIATES

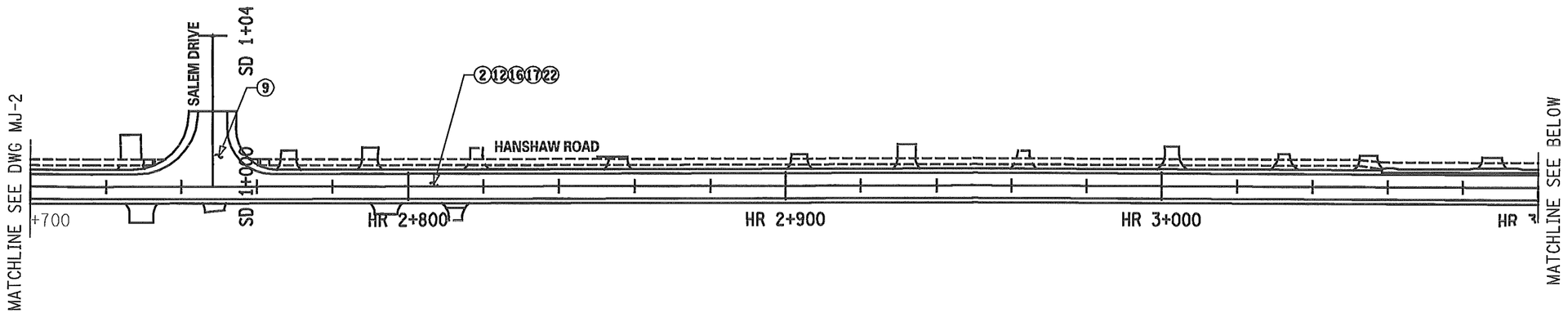
DRAWING NO. MJ-2
SHEET NO. 24 OF 130

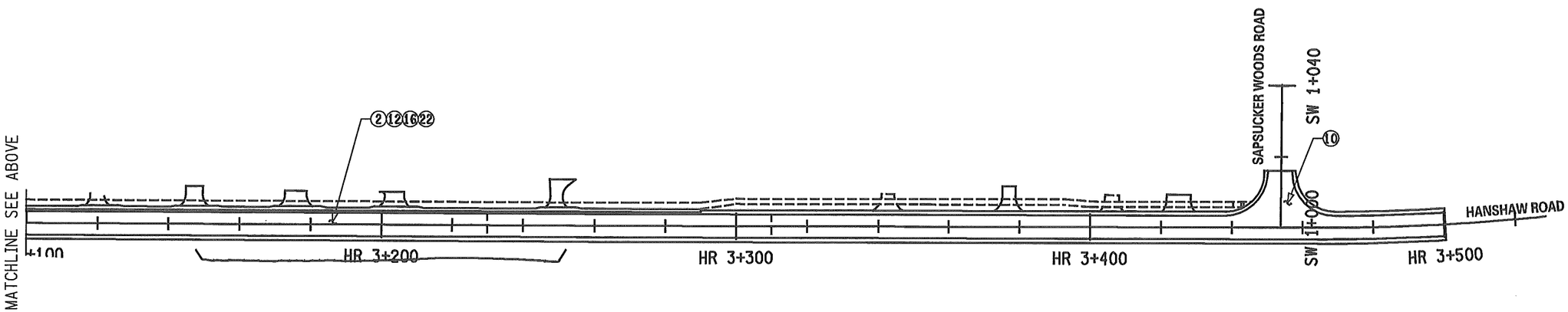
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: 375325B_MJ.DGN

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB





GRID NORTH

50 0 100 200 250 m

SCALE

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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NOTE:

1. SEE DWG. MJ-4 FOR MAINTENANCE JURISDICTION TABLE.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

MAINTENANCE JURISDICTION PLAN

FISHER ASSOCIATES

DRAWING NO. MJ-3
SHEET NO. 25 OF 130

DOCUMENT NAME: 375325C_MJ.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN9SPEC
DATE/TIME = 5/14/2013
USER = MARKB

MAINTENANCE JURISDICTION TABLE

PART NO.	FEATURE	LIMITS	FEATURES TO BE MAINTAINED	℄ KM	LANE km	OWNING AGENCY	MAINTAINING AGENCY	AUTHORITY FOR MAINTENANCE
MAINLINE								
1	HANSHAW RD	HR 1+066.726 - HR 1+315.002	PAVEMENT, CURBS, DRAINAGE SYSTEMS, LANDSCAPING, STRIPING, SHOULDERS, GUIDE RAIL	0.248	0.496	VILLAGE OF CAYUGA HEIGHTS	VILLAGE OF CAYUGA HEIGHTS	HIGHWAY LAW - SECTION 81
2	HANSHAW RD	HR 1+315.002 - HR 3+500.402	PAVEMENT, CURBS, DRAINAGE SYSTEMS, LANDSCAPING, STRIPING, SHOULDERS, GUIDE RAIL	2.185	4.37	TOMPKINS COUNTY	TOMPKINS COUNTY	HIGHWAY LAW - SECTION 81
3	WARREN RD	WS 0+920 - WS 1+070	PAVEMENT, CURBS, DRAINAGE SYSTEMS, LANDSCAPING, STRIPING, SHOULDERS, GUIDE RAIL	0.09	0.18	TOMPKINS COUNTY	TOMPKINS COUNTY	HIGHWAY LAW - SECTION 81
INTERSECTIONS AND CROSSINGS								
4	PLEASANT GROVE RD	HR 1+108.365	PAVEMENT, CURBS, DRAINAGE SYSTEMS, LANDSCAPING, STRIPING, SHOULDERS, GUIDE RAIL, SIDEWALKS	0.027	0.054	VILLAGE OF CAYUGA HEIGHTS	VILLAGE OF CAYUGA HEIGHTS	HIGHWAY LAW SECTION 81
5	BLACKSTONE AVE	BA 0+960 - BA 1+080	PAVEMENT, CURBS, DRAINAGE SYSTEMS, LANDSCAPING, STRIPING, SHOULDERS, GUIDE RAIL, SIDEWALKS	0.03	0.06	TOWN OF ITHACA	TOWN OF ITHACA	HIGHWAY LAW SECTION 81
6	ORCHARD ST	OS 0+960 - OS 1+000	PAVEMENT, CURBS, DRAINAGE SYSTEMS, LANDSCAPING, STRIPING, SHOULDERS, GUIDE RAIL, SIDEWALKS	0.04	0.08	TOWN OF ITHACA	TOWN OF ITHACA	HIGHWAY LAW SECTION 81
7	KAY ST	KS 1+000 - KS 1+040	PAVEMENT, CURBS, DRAINAGE SYSTEMS, LANDSCAPING, STRIPING, SHOULDERS, GUIDE RAIL, SIDEWALKS	0.04	0.08	TOWN OF ITHACA	TOWN OF ITHACA	HIGHWAY LAW SECTION 81
8	MURIEL ST	MS 1+000 - MS 1+100	PAVEMENT, CURBS, DRAINAGE SYSTEMS, LANDSCAPING, STRIPING, SHOULDERS, GUIDE RAIL, SIDEWALKS	0.10	0.20	TOWN OF ITHACA	TOWN OF ITHACA	HIGHWAY LAW SECTION 81
9	SALEM DR	SD 1+000 - SD 1+040	PAVEMENT, CURBS, DRAINAGE SYSTEMS, LANDSCAPING, STRIPING, SHOULDERS, GUIDE RAIL, SIDEWALKS	0.04	0.08	TOWN OF ITHACA	TOWN OF ITHACA	HIGHWAY LAW SECTION 81
10	SAPSUCKER WOODS RD	SW 1+000 - SW 1+040	PAVEMENT, CURBS, DRAINAGE SYSTEMS, LANDSCAPING, STRIPING, SHOULDERS, GUIDE RAIL, SIDEWALKS	0.04	0.08	TOWN OF ITHACA	TOWN OF ITHACA	HIGHWAY LAW SECTION 81
SNOW AND ICE REMOVAL								
11	HANSHAW RD	HR 1+066.726 - HR 1+315.002	PAVEMENT & SIDEWALKS	0.248	0.496	N/A	VILLAGE OF CAYUGA HEIGHTS	HIGHWAY LAW SECTION 81
12	HANSHAW RD	HR 1+315.002 - HR 3+500.402	PAVEMENT & SIDEWALKS	2.185	4.37	N/A	TOWN OF ITHACA	HIGHWAY LAW SECTION 81
13	WARREN RD	WS 0+920 - WS 1+070	PAVEMENT & SIDEWALKS	.09	0.18	N/A	TOWN OF ITHACA	HIGHWAY LAW SECTION 81
WATERLINE								
14	HANSHAW	HR 1+066.726 - HR 1+315.002	WATERMAIN	N/A	N/A	VILLAGE OF CAYUGA HEIGHTS	VILLAGE OF CAYUGA HEIGHTS/ BOLTON POINT (SEE NOTE 1)	HIGHWAY LAW SECTION 10
15	HANSHAW	HR 1+066.726 - HR 1+315.002	WATER IN WATERMAIN	N/A	N/A	BOLTON POINT WATER AUTHORITY	N/A	HIGHWAY LAW SECTION 10
16	HANSHAW RD	HR 1+315.002 - HR 3+500.402	WATERMAIN	N/A	N/A	TOWN OF ITHACA	TOWN OF ITHACA/ BOLTON POINT (SEE NOTE 1)	HIGHWAY LAW SECTION 10
17	HANSHAW RD	HR 1+315.002 - HR 3+500.402	WATER IN WATERMAIN	N/A	N/A	BOLTON POINT WATER AUTHORITY	N/A	HIGHWAY LAW SECTION 10
18	WARREN RD	WS 0+920 - WS 1+070	WATERMAIN	N/A	N/A	TOWN OF ITHACA	TOWN OF ITHACA/ BOLTON POINT (SEE NOTE 1)	HIGHWAY LAW SECTION 10
19	WARREN RD	WS 0+920 - WS 1+070	WATER IN WATERMAIN	N/A	N/A	TOWN OF ITHACA	N/A	HIGHWAY LAW SECTION 10
TRAFFIC SIGNAL								
20	HANSHAW RD	HR 2+140	TRAFFIC SIGNAL	N/A	N/A	TOMPKINS COUNTY	TOMPKINS COUNTY	HIGHWAY LAW SECTION 12
SIDEWALKS								
21	HANSHAW RD	HR 1+066.726 - HR 1+315.002	SIDEWALKS	0.248	0.496	VILLAGE OF CAYUGA HEIGHTS	VILLAGE OF CAYUGA HEIGHTS	HIGHWAY LAW - SECTION 349
22	HANSHAW RD	HR 1+315.002 - HR 3+500.402	SIDEWALKS	2.185	4.37	TOWN OF ITHACA	TOWN OF ITHACA	HIGHWAY LAW - SECTION 349
23	WARREN RD	WS 0+920 - WS 1+070	SIDEWALKS	0.09	0.18	TOWN OF ITHACA	TOWN OF ITHACA	HIGHWAY LAW - SECTION 349

NOTE:

1. DAY-TO-DAY OPERATION/MAINTENANCE OF THE WATERMAIN ARE THE RESPONSIBILITY OF BOLTON POINT WATER AUTHORITY. REPAIRS ARE DONE BY THE OWNER.

50 0 100 200 250 m

SCALE

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PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

AS BUILT REVISIONS
DESCRIPTION OF WORK:

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RECONSTRUCTION OF HANSHAW ROAD
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BRIDGES

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ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

MAINTENANCE JURISDICTION PLAN

FISHER ASSOCIATES

DRAWING NO. MJ-4
SHEET NO. 26 OF 130

DOCUMENT NAME: 375325D_MJ.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

NOTES:

1. THE UNIT BID PRICE FOR ITEMS 18604.1202 & 18604.0812 SHALL INCLUDE THE COST OF FRAME & GRATE AND ALL NECESSARY PIPE CONNECTIONS & FITTINGS.

2. OFFSETS FOR MANHOLES ARE MEASURED TO CENTER OF THE STRUCTURE. OFFSETS FOR INLETS AT CURB ARE MEASURED TO THE CURB, OFFSETS FOR REMAINING INLETS ARE MEASURED TO CENTER OF FRAME & GRATE.

3. ROUND MANHOLES - WHEN PIPES ENTERING A MANHOLE PROVIDES FOR LESS THAN 200 mm BETWEEN THE TOP OF THE PIPE AND THE TOP OF THE RISER, AND THE STRUCTURE MAY BE SUBJECTED TO HIGHWAY LOADS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE REVIEW AND APPROVAL OF THE E.I.C. THE DRAWINGS SHALL INCLUDE THE STAMP AND SIGNATURE OF A LICENSED PROFESSIONAL ENGINEER (IN THE STATE OF NEW YORK) CERTIFYING THAT THE STRUCTURE MEETS THE REQUIREMENTS OF ASTM C478.

SCHEDULE OF ITEMS

ITEM	DESCRIPTION
603.171116	GALVANIZED STEEL END SECTIONS-PIPE 375mm DIAMETER
603.171216	GALVANIZED STEEL END SECTIONS-PIPE 450mm DIAMETER
603.171316	GALVANIZED STEEL END SECTIONS-PIPE 525mm DIAMETER
603.171614	GALVANIZED STEEL END SECTIONS-PIPE 750mm DIAMETER
603.171814	GALVANIZED STEEL END SECTIONS-PIPE 900mm DIAMETER
603.171912	GALVANIZED STEEL END SECTIONS-PIPE 1050mm DIAMETER
603.9812	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 300mm DIAMETER
603.9815	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 375mm DIAMETER
603.9818	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 450mm DIAMETER
603.9824	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 600mm DIAMETER
603.9830	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 750mm DIAMETER
603.9836	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 900mm DIAMETER
603.9842	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 1050mm DIAMETER
604.1202 18	300mm DIAMETER PVC DRAIN BASIN WITH 610 x 915mm GRATE
604.0812 18	300mm DIAMETER PVC INLINE DRAIN WITH 300mm GRATE
604.300203	RECTANGULAR DRAINAGE STRUCTURE TYPE B FOR #3 WELDED FRAME
604.300303	RECTANGULAR DRAINAGE STRUCTURE TYPE C FOR #3 WELDED FRAME
604.300311	RECTANGULAR DRAINAGE STRUCTURE TYPE C FOR #11 WELDED FRAME
604.300411	RECTANGULAR DRAINAGE STRUCTURE TYPE D FOR #11 WELDED FRAME
604.300691	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR PARALLEL BAR #11 PCB FRAME
604.301111	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR #11 WELDED FRAME
604.301190	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR PARALLEL BAR #10 PCB FRAME
604.301911	RECTANGULAR DRAINAGE STRUCTURE TYPE S FOR #11 WELDED FRAME
604.301990	RECTANGULAR DRAINAGE STRUCTURE TYPE S FOR PARALLEL BAR #10PCB FRAME
604.302016	RECTANGULAR DRAINAGE STRUCTURE TYPE T FOR #16 WELDED FRAME
604.302122	RECTANGULAR DRAINAGE STRUCTURE TYPE U FOR #22 WELDED FRAME
604.302192	RECTANGULAR DRAINAGE STRUCTURE TYPE U FOR PARALLEL BAR #12PCB FRAME
604.311611	RECTANGULAR DRAINAGE STRUCTURE TYPE P WITH ROUND OPTION FOR #11 WELDED FRAME
604.4060	ROUND PRECAST CONCRETE MANHOLE TYPE 60
604.4072	ROUND PRECAST CONCRETE MANHOLE TYPE 72
604.4084	ROUND PRECAST CONCRETE MANHOLE TYPE 84
604.4096	ROUND PRECAST CONCRETE MANHOLE TYPE 96
655.0901	PARALLEL BAR FRAME 10 PCB & PARALLEL BAR GRATE 10 PCB
655.0902	PARALLEL BAR FRAME 11 PCB & PARALLEL BAR GRATE 11 PCB
655.0903	PARALLEL BAR FRAME 12 PCB & PARALLEL BAR GRATE 12 PCB
655.1003	WELDED FRAME & RECTANGULAR GRATE 3
655.1111	WELDED FRAME & RETICULINE GRATE 11
655.1116	WELDED FRAME & RETICULINE GRATE 16
655.1122	WELDED FRAME & RETICULINE GRATE 22
655.1201	MANHOLE FRAME & GRATE

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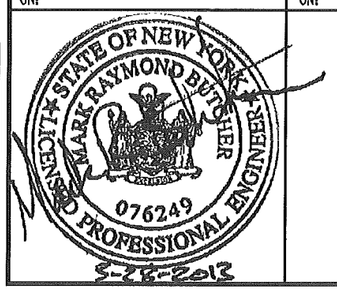
PREPARED BY:
ON:

ALTERED BY:
ON:



DRAINAGE STRUCTURE TABLE

STR. NO.	STATION/ OFFSET	STRUCTURE ITEM NO./ QUANTITY	DESCRIPTION
D-100	BA 1+070.90 7.37 m LT.	603.171912 1 EA	PROVIDE 1050mm GALVANIZED END SECTION (INV. 286.400)
D-100A	BA 1+067.38 3.76 m LT.	604.4060 3.02 m	INSTALL M.H. (TYPE 60), PROVIDE MANHOLE FRAME & GRATE (ITEM 655.1201), T.G. ELEV. 288.124 INLET FROM D-101 WITH 900mm SICPP TO STRUCTURE (INV. 286.484) OUTLET WITH 4.7 m OF 900 mm SICPP (ITEM 603.9836) FROM STRUCTURE (INV. 286.459) TO D-100
D-101	HR 1+758.95 8.71 m LT.	604.4096 3.02 m	INSTALL M.H. (TYPE 96), PROVIDE MANHOLE FRAME & GRATE (ITEM 655.1201), T.G. ELEV. 290.526 INLET FROM D-102 WITH 300 mm SICPP TO STRUCTURE (INV. 288.545) INLET FROM D-107 WITH 300 mm SICPP TO STRUCTURE (INV. 288.545) INLET FROM D-108 WITH 1050 mm SICPP TO STRUCTURE (INV. 287.795) OUTLET WITH 57.9 m OF 900 mm SICPP (ITEM 603.9836) FROM STRUCTURE (INV. 287.705) TO D-100A
D-102	HR 1+751.72 5.10 m LT.	604.302192 2.50 m	INSTALL D.I. (TYPE U), PROVIDE PARALLEL BAR 12PCB FRAME & GRATE (ITEM 655.0903), T.G. ELEV. 290.890 INLET FROM D-103 WITH 300 mm SICPP TO STRUCTURE (INV. 288.600) OUTLET WITH 6.7 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 288.575) TO D-101
D-103	HR 1+718.00 5.10 m LT.	604.301990 2.54 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 291.123 INLET FROM D-103A WITH 300 mm SICPP TO STRUCTURE (INV. 288.795) OUTLET WITH 32.5 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 288.770) TO D-102
D-103A	HR 1+683.00 5.10 m LT.	604.301990 2.38 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 291.137 INLET FROM D-104 WITH 300 mm SICPP TO STRUCTURE (INV. 288.970) OUTLET WITH 31.7 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 288.945) TO D-103
D-104	HR 1+650.00 4.50 m LT.	604.301911 2.11 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 291.143 INLET FROM D-105 WITH 300 mm SICPP TO STRUCTURE (INV. 289.154) OUTLET WITH 66.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 289.129) TO D-103A
D-105	HR 1+575.95 4.50 m LT.	604.301911 1.45 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 290.878 INLET FROM D-106 WITH 300 mm SICPP TO STRUCTURE (INV. 289.543) OUTLET WITH 72.9 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 289.518) TO D-104
D-106	HR 1+538.20 4.50 m LT.	604.301911 0.94 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 290.591 OUTLET WITH 36.6 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 289.797) TO D-105
D-107	HR 1+755.27 6.54 m RT.	604.301990 1.36 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 290.701 OUTLET WITH 15.9 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 289.546) TO D-101
D-108	HR 1+796.00 5.40 m LT.	604.300303 2.76 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 290.563 INLET FROM D-109 WITH 1050 mm SICPP TO STRUCTURE (INV. 288.028) OUTLET WITH 35.3 m OF 1050 mm SICPP (ITEM 603.9842) FROM STRUCTURE (INV. 288.003) TO D-101
D-109	HR 1+818.00 5.10 m LT.	604.300303 2.45 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 290.413 INLET FROM D-110 WITH 1050 mm SICPP TO STRUCTURE (INV. 288.175) OUTLET WITH 20.8 m OF 1050 mm SICPP (ITEM 603.9842) FROM STRUCTURE (INV. 288.150) TO D-108
D-110	HR 1+848.68 4.50 m LT.	604.300311 2.12 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 290.364 INLET FROM D-111 WITH 1050 mm SICPP TO STRUCTURE (INV. 288.375) OUTLET WITH 29.5 m OF 1050 mm SICPP (ITEM 603.9842) FROM STRUCTURE (INV. 288.350) TO D-109
D-111	HR 1+876.00 4.50 m LT.	604.300311 1.95 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 290.323 INLET FROM D-112 WITH 1050 mm SICPP TO STRUCTURE (INV. 288.540) OUTLET WITH 26.4 m OF 1050 mm SICPP (ITEM 603.9842) FROM STRUCTURE (INV. 288.515) TO D-110

DRAINAGE STRUCTURE TABLE

STR. NO.	STATION/ OFFSET	STRUCTURE ITEM NO./ QUANTITY	DESCRIPTION
D-112	HR 1+898.00 5.40 m LT.	604.4096 1.77 m	INSTALL M.H. (TYPE 96), PROVIDE MANHOLE FRAME & COVER (ITEM 655.1201), T.G. ELEV. 290.239 INLET FROM D-114 WITH 900 mm SICPP TO STRUCTURE (INV. 288.700) INLET FROM D-117 WITH 900 mm SICPP TO STRUCTURE (INV. 288.700) OUTLET WITH 20.3 m OF 1050 mm SICPP (ITEM 603.9842) FROM STRUCTURE (INV. 288.675) TO D-111 OUTLET WITH 5.38 m OF 600 mm SICPP (ITEM 603.9824) FROM STRUCTURE (INV. 288.846) TO D-112A
D-112A	HR 1+893.54 9.99 m LT.	603.171614 1 EA	PROVIDE 750 mm GALVANIZED END SECTION, (INV. 288.792)
D-113	HR 1+893.34 6.83 m RT.	604.301990 1.11 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 289.915 OUTLET WITH 3.5 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 289.005) TO D-114
D-114	HR 1+897.52 4.19 m RT.	604.4084 1.83 m	INSTALL M.H. (TYPE 84), PROVIDE MANHOLE FRAME & COVER (ITEM 655.1201), T.G. ELEV. 290.386 INLET FROM D-113 WITH 300 mm SICPP TO STRUCTURE (INV. 288.970) INLET FROM D-116 WITH 900 mm SICPP TO STRUCTURE (INV. 288.785) OUTLET WITH 7.4 m OF 900 mm SICPP (ITEM 603.9836) FROM STRUCTURE (INV. 288.760) TO D-112
D-115	HR 1+912.45 6.45 m RT.	604.301990 0.65 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 290.249 OUTLET WITH 0.9 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 289.799) TO D-116
D-116	HR 1+912.40 4.13 m RT.	604.4060 1.79 m	INSTALL M.H. (TYPE 60), PROVIDE MANHOLE FRAME & COVER (ITEM 655.1201), T.G. ELEV. 290.478 INLET FROM D-115 WITH 300 mm SICPP TO STRUCTURE (INV. 289.515) INLET FROM D-122 WITH 900 mm SICPP TO STRUCTURE (INV. 288.915) OUTLET WITH 13.2 m OF 900 mm SICPP (ITEM 603.9836) FROM STRUCTURE (INV. 288.890) TO D-114
D-117	HR 1+952.00 5.40 m LT.	604.301190 1.67 m	INSTALL D.I. (TYPE K), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 290.626 INLET FROM D-118 WITH 300 mm SICPP TO STRUCTURE (INV. 289.239) INLET FROM D-120 WITH 900 mm SICPP TO STRUCTURE (INV. 289.176) OUTLET WITH 52.8 m OF 900 mm SICPP (ITEM 603.9836) FROM STRUCTURE (INV. 289.151) TO D-112
D-118	HR 1+961.62 11.28 m LT.	604.301990 1.30 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 290.426 OUTLET WITH 10.6 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 289.325) TO D-117
D-119	HR 1+972.37 13.89 m LT.	604.301990 1.21 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 290.896 OUTLET WITH 11.2 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 289.890) TO D-120
D-120	HR 1+980.67 5.10 m LT.	604.301190 1.80 m	INSTALL D.I. (TYPE K), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 290.997 INLET FROM D-119 WITH 300 mm SICPP TO STRUCTURE (INV. 289.740) INLET FROM D-121 WITH 900 mm SICPP TO STRUCTURE (INV. 289.425) OUTLET WITH 27.5 m OF 900 mm SICPP (ITEM 603.9836) FROM STRUCTURE (INV. 289.400) TO D-117
D-121	HR 2+016.00 5.10 m LT.	604.300303 1.83 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 291.590 INLET FROM D-125 WITH 750 mm SICPP TO STRUCTURE (INV. 289.984) OUTLET WITH 34.1 m OF 900 mm SICPP (ITEM 603.9836) FROM STRUCTURE (INV. 289.968) TO D-120
D-122	HR 2+015.75 3.74 m RT.	604.4084 2.18 m	INSTALL M.H. (TYPE 84), PROVIDE MANHOLE FRAME & COVER (ITEM 655.1201), T.G. ELEV. 291.491 INLET FROM D-123 WITH 750 mm SICPP TO STRUCTURE (INV. 289.900) INLET FROM D-124 WITH 450 mm SICPP TO STRUCTURE (INV. 289.993) OUTLET WITH 102.2 m OF 900 mm SICPP (ITEM 603.9836) FROM STRUCTURE (INV. 289.750) TO D-116

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

DRAINAGE TABLES

FISHER ASSOCIATES

DRAWING NO. DST-1
SHEET NO. 27 OF 130

DOCUMENT NAME: $FILENAME$

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY BENNETT DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

NOTES:

1. THE UNIT BID PRICE FOR ITEMS 18604.1202 & 18604.0812 SHALL INCLUDE THE COST OF FRAME & GRATE AND ALL NECESSARY PIPE CONNECTIONS & FITTINGS.

2. OFFSETS FOR MANHOLES ARE MEASURED TO CENTER OF THE STRUCTURE. OFFSETS FOR INLETS AT CURB ARE MEASURED TO THE CURB, OFFSETS FOR REMAINING INLETS ARE MEASURED TO CENTER OF FRAME & GRATE.

3. ROUND MANHOLES - WHEN PIPES ENTERING A MANHOLE PROVIDES FOR LESS THAN 200 mm BETWEEN THE TOP OF THE PIPE AND THE TOP OF THE RISER, AND THE STRUCTURE MAY BE SUBJECTED TO HIGHWAY LOADS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE REVIEW AND APPROVAL OF THE E.I.C. THE DRAWINGS SHALL INCLUDE THE STAMP AND SIGNATURE OF A LICENSED PROFESSIONAL ENGINEER (IN THE STATE OF NEW YORK) CERTIFYING THAT THE STRUCTURE MEETS THE REQUIREMENTS OF ASTM C478.

4. SCHEDULE OF ITEMS ON DWG. NO. DST-1.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-24-2013	

DRAINAGE STRUCTURE TABLE (CONT.)

STR. NO.	STATION/ OFFSET	STRUCTURE ITEM NO./ QUANTITY	DESCRIPTION
D-123	HR 2+092.19 4.00 m RT.	604.4060 2.17 m	INSTALL M.H. (TYPE 60), PROVIDE MANHOLE FRAME & COVER (ITEM 655.1201), T.G. ELEV. 293.349 INLET FROM D-128 WITH 750 mm SICPP TO STRUCTURE (INV. 291.400) OUTLET WITH 75.3 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 291.375) TO D-122
D-124	HR 2+015.74 7.91 m RT.	603.171316 1 EA	PROVIDE 525 mm GALVANIZED END SECTION, (INV. 290.615) INLET WITH 3.2 m OF 450 mm SICPP (ITEM 603.9818) FROM STRUCTURE TO D-122
D-125	HR 2+038.00 5.10 m LT.	604.300203 1.68 m	INSTALL D.I. (TYPE B), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 292.027 INLET FROM D-126 WITH 750 mm SICPP TO STRUCTURE (INV. 290.572) OUTLET WITH 20.8 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 290.547) TO D-121
D-126	HR 2+056.66 5.10 m LT.	604.300203 1.68 m	INSTALL D.I. (TYPE B), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 292.439 INLET FROM D-127 WITH 750 mm SICPP TO STRUCTURE (INV. 290.984) OUTLET WITH 17.5 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 290.959) TO D-125
D-127	HR 2+108.00 4.50 m LT.	604.301111 1.98 m	INSTALL D.I. (TYPE K), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 293.683 INLET FROM D-129 WITH 900 mm SICPP TO STRUCTURE (INV. 291.810) OUTLET WITH 9.7 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 291.785) TO D-128 OUTLET WITH 50.1 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 291.785) TO D-126
D-128	HR 2+111.40 3.96 m RT.	604.4096 2.38 m	INSTALL M.H. (TYPE 96), PROVIDE MANHOLE FRAME & GRATE (ITEM 655.1201), T.G. ELEV. 293.779 INLET FROM D-127 WITH 750 mm SICPP TO STRUCTURE (INV. 291.670) OUTLET WITH 18.2 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 291.645) TO D-123
D-129	HR 2+135.98 6.63 m LT.	604.311611 2.00 m	INSTALL D.I. (TYPE P, ROUND OPTION), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 294.201 INLET FROM D-130 WITH 300 mm SICPP TO STRUCTURE (INV. 293.020) INLET FROM D-131 WITH 750 mm SICPP TO STRUCTURE (INV. 292.420) OUTLET WITH 27.1 m OF 900 mm SICPP (ITEM 603.9836) FROM STRUCTURE (INV. 292.395) TO D-127
D-130	HR 2+140.83 12.38 m LT.	603.171116 1 EA	PROVIDE 375 mm GALVANIZED END SECTION, (INV. 294.248) OUTLET WITH 6.1 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 294.248) TO D-129
D-131	HR 2+157.01 9.55 m LT.	604.301111 1.93 m	INSTALL D.I. (TYPE K), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 294.460 INLET FROM D-132 WITH 750 mm SICPP TO STRUCTURE (INV. 292.871) INLET FROM D-133 WITH 300 mm SICPP TO STRUCTURE (INV. 293.421) OUTLET WITH 19.6 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 292.846) TO D-129
D-132	HR 2+166.20 4.50 m LT.	604.300411 1.93 m	INSTALL D.I. (TYPE D), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 294.848 INLET FROM D-134 WITH 750 mm SICPP TO STRUCTURE (INV. 293.090) OUTLET WITH 10.4 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 293.065) TO D-131
D-133	WS 1+029.33 7.77 m RT.	603.171116 1 EA	PROVIDE 375 mm GALVANIZED END SECTION, (INV. 294.433) INLET WITH 14.7 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 294.433) TO D-131
D-134	HR 2+236.00 5.10 m LT.	604.300303 1.98 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 296.962 INLET FROM D-135 WITH 750 mm SICPP TO STRUCTURE (INV. 295.207) OUTLET WITH 68.6 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 295.182) TO D-132
D-135	HR 2+264.00 5.10 m LT.	604.300303 1.98 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 297.784 INLET FROM D-136 WITH 750 mm SICPP TO STRUCTURE (INV. 296.029) OUTLET WITH 26.8 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 296.004) TO D-134
D-136	HR 2+312.00 5.10 m LT.	604.300303 1.98 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 299.133 INLET FROM D-137 WITH 750 mm SICPP TO STRUCTURE (INV. 297.378) OUTLET WITH 46.8 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 297.353) TO D-135

DRAINAGE STRUCTURE TABLE (CONT.)

STR. NO.	STATION/ OFFSET	STRUCTURE ITEM NO./ QUANTITY	DESCRIPTION
D-137	HR 2+354.00 5.10 m LT.	604.300303 1.98 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 300.524 INLET FROM D-137A WITH 750 mm SICPP TO STRUCTURE (INV. 298.769) OUTLET WITH 40.8 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 298.744) TO D-136
D-137A	HR 2+387.00 5.10 m LT.	604.300303 1.98 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 301.496 INLET FROM D-138 WITH 750 mm SICPP TO STRUCTURE (INV. 300.002) OUTLET WITH 31.9 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 299.977) TO D-137
D-138	HR 2+410.00 5.10 m LT.	604.300303 1.98 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 302.596 INLET FROM D-139 WITH 750 mm SICPP TO STRUCTURE (INV. 300.841) OUTLET WITH 22.0 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 300.816) TO D-137A
D-139	HR 2+474.00 5.10 m LT.	604.300303 1.98 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 305.053 INLET FROM D-140 WITH 750 mm SICPP TO STRUCTURE (INV. 303.298) OUTLET WITH 62.8 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 303.273) TO D-138
D-140	HR 2+496.76 4.77 m LT.	604.4072 1.98 m	INSTALL M.H. (TYPE 72), PROVIDE MANHOLE FRAME & COVER (ITEM 655.1201), T.G. ELEV. 306.153 INLET FROM D-141 WITH 750 mm SICPP TO STRUCTURE (INV. 304.440) INLET FROM D-143 WITH 300 mm SICPP TO STRUCTURE (INV. 305.040) OUTLET WITH 23.8 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 304.415) TO D-139
D-141	HR 2+513.37 5.07 m LT.	604.4060 1.98 m	INSTALL M.H. (TYPE 60), PROVIDE MANHOLE FRAME & COVER (ITEM 655.1201), T.G. ELEV. 306.901 INLET FROM D-142 WITH 300 mm SICPP TO STRUCTURE (INV. 305.746) INLET FROM D-144 WITH 750 mm SICPP TO STRUCTURE (INV. 305.146) OUTLET WITH 14.6 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 305.121) TO D-140
D-142	NS 1+011.44 4.83 m RT.	604.302122 1.16 m	INSTALL D.I. (TYPE U), PROVIDE RETICULINE 22 FRAME & GRATE (ITEM 655.1122), T.G. ELEV. 306.959 INLET FROM D-142A WITH 300mm SICPP TO STRUCTURE (INV. 306.025) OUTLET WITH 4.6 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 306.000) TO D-141
D-142A	NS 1+060.00 4.34 m RT.	604.301911 0.94 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 308.796 OUTLET WITH 47.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 308.054) TO D-142
D-143	NS 1+011.44 4.75 m LT.	604.302122 1.11 m	INSTALL D.I. (TYPE U), PROVIDE RETICULINE 22 FRAME & GRATE (ITEM 655.1122), T.G. ELEV. 306.693 INLET FROM D-143A WITH 300mm SICPP TO STRUCTURE (INV. 305.808) OUTLET WITH 6.1 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 305.783) TO D-140
D-143A	NS 1+060.00 4.34 m LT.	604.301911 0.94 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 308.796 OUTLET WITH 47.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 308.054) TO D-142
D-144	HR 2+520.00 5.10 m LT.	604.300303 1.98 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 307.049 INLET FROM D-145 WITH 750 mm SICPP TO STRUCTURE (INV. 305.294) OUTLET WITH 5.4 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 305.269) TO D-141
D-145	HR 2+566.00 5.10 m RT.	604.300303 1.98 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 309.056 INLET FROM D-146 WITH 750 mm SICPP TO STRUCTURE (INV. 307.302) OUTLET WITH 44.8 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 307.277) TO D-144
D-146	HR 2+594.00 5.10 m LT.	604.300303 1.98 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 310.278 INLET FROM D-147 WITH 750 mm SICPP TO STRUCTURE (INV. 308.523) OUTLET WITH 28.9 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 308.498) TO D-145

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: @FILENAME@

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

DRAINAGE TABLES

FISHERASSOCIATES

DRAWING NO. DST-2
SHEET NO. 28 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

NOTES:

1. THE UNIT BID PRICE FOR ITEMS 18604.1202 & 18604.0812 SHALL INCLUDE THE COST OF FRAME & GRATE AND ALL NECESSARY PIPE CONNECTIONS & FITTINGS.

2. OFFSETS FOR MANHOLES ARE MEASURED TO CENTER OF THE STRUCTURE. OFFSETS FOR INLETS AT CURB ARE MEASURED TO THE CURB, OFFSETS FOR RENAINING INLETS ARE MEASURED TO CENTER OF FRAME & GRATE.

3. ROUND MANHOLES - WHEN PIPES ENTERING A MANHOLE PROVIDES FOR LESS THAN 200 mm BETWEEN THE TOP OF THE PIPE AND THE TOP OF THE RISER, AND THE STRUCTURE MAY BE SUBJECTED TO HIGHWAY LOADS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE REVIEW AND APPROVAL OF THE E.I.C. THE DRAWINGS SHALL INCLUDE THE STAMP AND SIGNATURE OF A LICENSED PROFESSIONAL ENGINEER (IN THE STATE OF NEW YORK) CERTIFYING THAT THE STRUCTURE MEETS THE REQUIREMENTS OF ASTM C478.

4. SCHEDULE OF ITEMS ON DWG. NO. DST-1.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

DRAINAGE STRUCTURE TABLE (CONT.)

STR. NO.	STATION/ OFFSET	STRUCTURE ITEM NO./ QUANTITY	DESCRIPTION
D-147	HR 2+626.00 5.10 m LT.	604.300303 1.98 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 311.675 INLET FROM D-148 WITH 300 mm SICPP TO STRUCTURE (INV. 310.519) INLET FROM D-149 WITH 750 mm SICPP TO STRUCTURE (INV. 309.920) OUTLET WITH 30.8 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 309.895) TO D-146
D-148	HR 2+626.89 10.33 m LT.	603.171814 1EA	PROVIDE 900mm GALVANIZED END SECTION, (INV. 310.687) OUTLET WITH 4.9 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 310.687) TO D-147
D-149	HR 2+646.00 5.10 m LT.	604.300303 1.97 m	INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 312.547 INLET FROM D-150 WITH 750 mm SICPP TO STRUCTURE (INV. 310.930) OUTLET WITH 18.8 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 310.780) TO D-147
D-150	HR 2+666.00 5.10 m LT.	604.300203 1.98 m	INSTALL D.I. (TYPE B), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 313.412 INLET FROM D-151 WITH 750 mm SICPP TO STRUCTURE (INV. 311.656) OUTLET WITH 18.8 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 311.631) TO D-149
D-151	HR 2+696.00 5.10 m LT.	604.300203 1.98 m	INSTALL D.I. (TYPE B), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 314.533 INLET FROM D-152 WITH 750 mm SICPP TO STRUCTURE (INV. 312.777) OUTLET WITH 28.8 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 312.752) TO D-150
D-151A	HR 2+697.06 9.22 m LT.	603.171614 1 EA	PROVIDE 750 mm GALVANIZED END SECTION, (INV. 313.528) OUTLET WITH 3.98 m OF 600 mm SICPP (ITEM 603.9824) FROM STRUCTURE (INV. 313.528) TO D-151
D-152	HR 2+729.61 5.10 m LT.	604.300203 1.83 m	INSTALL D.I. (TYPE B), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 315.617 INLET FROM D-153 WITH 750 mm SICPP TO STRUCTURE (INV. 314.012) OUTLET WITH 32.4 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 313.987) TO D-151
D-153	HR 2+740.47 2.91 m LT.	604.4096 1.81 m	INSTALL M.H. (TYPE 96), PROVIDE MANHOLE FRAME & COVER (ITEM 655.1201), T.G. ELEV. 315.923 INLET FROM D-154 WITH 600 mm mm SICPP TO STRUCTURE (INV. 314.343) INLET FROM D-153A WITH 600 mm SICPP TO STRUCTURE (INV. 314.343) OUTLET WITH 7.4 m OF 750 mm SICPP (ITEM 603.9830) FROM STRUCTURE (INV. 314.318) TO D-152
D-153A	SD 1+025.09 9.67 m LT.	603.171614 1 EA	PROVIDE 750 mm GALVANIZED END SECTION, (INV. 315.290) OUTLET WITH 23.2 m OF 600 mm SICPP (ITEM 603.9824)
D-154	HR 2+754.39 8.85 m LT.	604.300691 1.64 m	INSTALL D.I. (TYPE F), PROVIDE PARALLEL BAR 11PCB FRAME & GRATE (ITEM 655.0902), T.G. ELEV. 315.980 INLET FROM D-155 WITH 375 mm SICPP TO STRUCTURE (INV. 315.022) INLET FROM D-154A WITH 600 mm SICPP TO STRUCTURE (INV. 314.822) OUTLET WITH 17.9 m OF 600 mm mm SICPP (ITEM 603.9824) FROM STRUCTURE (INV. 314.797) TO D-153
D-154A	SD 1+023.69 8.15 m RT.	603.171614 1 EA	PROVIDE 750 mm GALVANIZED END SECTION, (INV. 315.350) OUTLET WITH 16.0 m OF 600 mm SICPP (ITEM 603.9824)
D-155	HR 2+772.00 5.10 m LT.	604.302192 1.43 m	INSTALL D.I. (TYPE U), PROVIDE PARALLEL BAR 12PCB FRAME & GRATE (ITEM 655.0902), T.G. ELEV. 316.716 INLET FROM D-156 WITH 300 mm SICPP TO STRUCTURE (INV. 315.560) OUTLET WITH 14.2 m OF 375 mm SICPP (ITEM 603.9815) FROM STRUCTURE (INV. 315.485) TO D-154
D-156	HR 2+794.00 5.10 m LT.	604.301990 1.38 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 317.470 INLET FROM D-157 WITH 300 mm SICPP TO STRUCTURE (INV. 316.314) OUTLET WITH 20.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 316.289) TO D-155
D-157	HR 2+822.00 5.10 m LT.	604.301990 1.38 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 318.432 INLET FROM D-158 WITH 300 mm SICPP TO STRUCTURE (INV. 317.276) OUTLET WITH 26.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 317.251) TO D-156
D-158	HR 2+860.00 5.10 m LT.	604.301990 1.38 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 319.492 INLET FROM D-159 WITH 300 mm SICPP TO STRUCTURE (INV. 318.336) OUTLET WITH 36.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 318.311) TO D-157

DRAINAGE STRUCTURE TABLE (CONT.)

STR. NO.	STATION/ OFFSET	STRUCTURE ITEM NO./ QUANTITY	DESCRIPTION
D-159	HR 2+908.00 5.10 m LT.	604.301990 1.38 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 320.546 INLET FROM D-160 WITH 300 mm SICPP TO STRUCTURE (INV. 319.390) OUTLET WITH 46.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 319.365) TO D-158
D-160	HR 2+936.00 5.10 m LT.	604.301990 1.38 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 321.161 INLET FROM D-161 WITH 300 mm SICPP TO STRUCTURE (INV. 320.005) OUTLET WITH 26.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 319.980) TO D-159
D-161	HR 2+968.00 5.10 m LT.	604.301990 1.38 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 321.864 INLET FROM D-162 WITH 300 mm SICPP TO STRUCTURE (INV. 320.708) OUTLET WITH 30.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 320.683) TO D-160
D-162	HR 3+008.00 5.10 m LT.	604.301990 1.38 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 322.742 INLET FROM D-163 WITH 300 mm SICPP TO STRUCTURE (INV. 321.586) OUTLET WITH 38.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 321.561) TO D-161
D-163	HR 3+036.00 5.10 m LT.	604.301990 1.38 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 323.362 INLET FROM D-164 WITH 300 mm SICPP TO STRUCTURE (INV. 322.206) OUTLET WITH 26.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 322.181) TO D-162
D-164	HR 3+060.00 4.60 m LT.	604.301911 1.38 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 324.136 INLET FROM D-165 WITH 300 mm SICPP TO STRUCTURE (INV. 322.855) OUTLET WITH 22.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 322.830) TO D-163
D-165	HR 3+093.80 4.60 m LT.	604.301911 1.38 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 325.303 INLET FROM D-166 WITH 300 mm SICPP TO STRUCTURE (INV. 324.028) OUTLET WITH 32.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 324.003) TO D-164
D-166	HR 3+125.20 4.60 m LT.	604.301911 1.38 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 326.304 INLET FROM D-167 WITH 300 mm SICPP TO STRUCTURE (INV. 324.988) OUTLET WITH 28.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 324.963) TO D-165
D-167	HR 3+153.00 4.60 m LT.	604.301911 1.38 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 327.026 INLET FROM D-168 WITH 300 mm SICPP TO STRUCTURE (INV. 325.720) OUTLET WITH 26.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 325.695) TO D-166
D-168	HR 3+182.00 4.60 m LT.	604.301911 1.38 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 327.823 INLET FROM D-169 WITH 300 mm SICPP TO STRUCTURE (INV. 326.541) OUTLET WITH 27.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 326.516) TO D-167
D-169	HR 3+209.75 4.60 m LT.	604.301911 1.38 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 328.810 INLET FROM D-170 WITH 300 mm SICPP TO STRUCTURE (INV. 327.460) OUTLET WITH 26.6 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 327.435) TO D-168
D-170	HR 3+254.00 4.60 m LT.	604.301911 1.51 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 330.216 INLET FROM D-171A WITH 300 mm SICPP TO STRUCTURE (INV. 328.775) OUTLET WITH 43.1 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 328.750) TO D-169
D-170A	HR 3+295.00 5.10 m LT.	604.301990 1.89 m	INSTALL D.I. (TYPE S) PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 330.668 INLET FROM D-171 WITH 300 mm SICPP TO STRUCTURE (INV. 328.775) OUTLET WITH 39.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 328.975) TO D-170

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

DRAINAGE TABLES

FISHERASSOCIATES

DRAWING NO. DST-3
SHEET NO. 29 OF 130

DOCUMENT NAME: @FILENAME@

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

NOTES:

1. THE UNIT BID PRICE FOR ITEMS 18604.1202 & 18604.0812 SHALL INCLUDE THE COST OF FRAME & GRATE AND ALL NECESSARY PIPE CONNECTIONS & FITTINGS.

2. OFFSETS FOR MANHOLES ARE MEASURED TO CENTER OF THE STRUCTURE. OFFSETS FOR INLETS AT CURB ARE MEASURED TO THE CURB, OFFSETS FOR REMAINING INLETS ARE MEASURED TO CENTER OF FRAME & GRATE.

3. ROUND MANHOLES - WHEN PIPES ENTERING A MANHOLE PROVIDES FOR LESS THAN 200 mm BETWEEN THE TOP OF THE PIPE AND THE TOP OF THE RISER, AND THE STRUCTURE MAY BE SUBJECTED TO HIGHWAY LOADS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE REVIEW AND APPROVAL OF THE E.I.C. THE DRAWINGS SHALL INCLUDE THE STAMP AND SIGNATURE OF A LICENSED PROFESSIONAL ENGINEER (IN THE STATE OF NEW YORK) CERTIFYING THAT THE STRUCTURE MEETS THE REQUIREMENTS OF ASTM C478.

4. SCHEDULE OF ITEMS ON DWG. NO. DST-1.

FIELD INLETS

FIELD INLET	STATION	OFFSET	SIDE	ITEM 604.1202 18	ITEM 203.07	ITEM 206.02	ITEM 603.9812
F1	1+704.200	6.05	RT	1	19.76	25.15	11.48
F2	2+038.720	9.63	LT	1	7.32	11.23	4.26
F3	2+108.020	7.42	LT	1	2.45	3.47	3.26
F4	2+204.510	8.01	LT	1	3.30	4.55	3.99
F5	2+236.000	9.00	LT	1	1.98	3.01	3.65
F6	2+263.980	9.30	LT	1	2.75	4.08	3.83
F7	2+298.010	8.94	LT	1	3.50	4.75	4.31
F8	2+311.990	8.94	LT	1	4.13	5.42	3.64
F9	2+410.410	9.90	LT	1	3.47	5.17	4.46
F10	2+568.040	9.23	LT	1	3.47	5.22	4.56
F10A	2+577.480	8.57	LT	1	3.00	4.52	3.92
F11	2+972.230	9.34	LT	1	0.90	1.63	4.24
F12	3+036.000	8.74	LT	1	1.50	2.18	3.27
F13	3+309.680	9.32	LT	1	1.95	2.69	4.00
F14	1+860.000	6.69	RT	1	2.32	3.12	34.20
			TOTALS	15	61.80 CM	86.19 CM	97.07 M

DRAINAGE STRUCTURE TABLE (CONT.)

STR. NO.	STATION/ OFFSET	STRUCTURE ITEM NO./ QUANTITY	DESCRIPTION
D-171	HR 3+338.00 5.45 m LT.	604.301990 1.67 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 330.687 INLET FROM D-172 WITH 300 mm SICPP TO STRUCTURE (INV. 329.240) OUTLET WITH 82.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 329.216) TO D-170
D-172	HR 3+352.00 5.45 m LT.	604.301990 1.57 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 330.672 INLET FROM D-173 WITH 300 mm SICPP TO STRUCTURE (INV. 329.330) OUTLET WITH 12.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 329.305) TO D-171
D-173	HR 3+382.00 5.45 m LT.	604.301990 1.46 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 330.734 INLET FROM D-174 WITH 300 mm SICPP TO STRUCTURE (INV. 329.500) OUTLET WITH 28.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 329.475) TO D-172
D-174	HR 3+410.00 5.10 m LT.	604.301990 1.39 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 330.867 INLET FROM D-175 WITH 300 mm SICPP TO STRUCTURE (INV. 329.706) OUTLET WITH 26.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 329.681) TO D-173
D-175	HR 3+430.00 5.10 m LT.	604.301990 1.25 m	INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 330.948 OUTLET WITH 16.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 329.900) TO D-174

DRAINAGE STRUCTURE TABLE (CONT.)

STR. NO.	STATION/ OFFSET	STRUCTURE ITEM NO./ QUANTITY	DESCRIPTION
D-200A	HR 2+164.50 6.27 RT	603.171416 1EA	PROVIDE 600 mm GALVANIZED END SECTION, (INV. 294.243) OUTLET WITH 16.1 m OF 450 mm SICPP (ITEM 603.9824)
D-200B	HR 2+147.73 4.32 RT	604.302122 0.95 m	INSTALL DI (TYPE U), PROVIDE RETICULINE 22 FRAME & GRATE (ITEM 655.1122), T.G. ELEV. 294.48 INLET FROM D-200A WITH 450 mm SICPP TO STRUCTURE (INV. 293.730) OUTLET WITH 11.0 m OF 450 mm SICPP FROM STRUCTURE (INV. 293.73) TO D-200C
D-200C	HR 2+142.05 14.33 RT	603.171416 1EA	PROVIDE 600 mm GALVANIZED END SECTION, (INV. 293.380)
D-200	HR 2+178.10 6.80 m RT.	603.171216 1EA	PROVIDE 450 mm GALVANIZED END SECTION, (INV. 294.653)
D-201	HR 2+234.00 6.95 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 296.552 INLET FROM D-202 WITH 375 mm SICPP TO STRUCTURE (INV. 295.567) OUTLET WITH 54.7 m OF 375 mm SICPP (ITEM 603.9815) FROM STRUCTURE (INV. 295.542) TO D-200
D-202	HR 2+284.00 6.95 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 297.982 INLET FROM D-203 WITH 375 mm SICPP TO STRUCTURE (INV. 296.997) OUTLET WITH 48.8 m OF 375 mm SICPP (ITEM 603.9815) FROM STRUCTURE (INV. 296.972) TO D-201
D-203	HR 2+338.00 6.95 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 299.594 INLET FROM D-204 WITH 300 mm SICPP TO STRUCTURE (INV. 298.684) OUTLET WITH 52.8 m OF 375 mm SICPP (ITEM 603.9815) FROM STRUCTURE (INV. 298.609) TO D-202
D-204	HR 2+418.00 6.95 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 302.529 INLET FROM D-205 WITH 300 mm SICPP TO STRUCTURE (INV. 301.619) OUTLET WITH 78.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 301.594) TO D-203
D-205	HR 2+460.00 6.95 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 304.126 INLET FROM D-206 WITH 300 mm SICPP TO STRUCTURE (INV. 303.216) OUTLET WITH 40.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 303.191) TO D-204
D-206	HR 2+518.00 6.95 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 306.603 INLET FROM D-207 WITH 300 mm SICPP TO STRUCTURE (INV. 305.693) OUTLET WITH 56.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 305.668) TO D-205
D-207	HR 2+536.00 6.95 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 307.385 INLET FROM D-208 WITH 300 mm SICPP TO STRUCTURE (INV. 306.475) OUTLET WITH 16.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 306.450) TO D-206
D-208	HR 2+564.00 6.95 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 308.624 INLET FROM D-209 WITH 300 mm SICPP TO STRUCTURE (INV. 307.714) OUTLET WITH 26.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 307.689) TO D-207
D-209	HR 2+624.23 6.63 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 311.231 INLET FROM D-210 WITH 300 mm SICPP TO STRUCTURE (INV. 310.321) OUTLET WITH 59.0 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 310.296) TO D-208
D-210	HR 2+642.00 6.95 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 312.013 INLET FROM D-211 WITH 300 mm SICPP TO STRUCTURE (INV. 311.103) OUTLET WITH 16.6 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 311.078) TO D-209

DRAINAGE STRUCTURE TABLE (CONT.)

STR. NO.	STATION/ OFFSET	STRUCTURE ITEM NO./ QUANTITY	DESCRIPTION
D-211	HR 2+678.00 6.55 m RT. 9	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 313.534 INLET FROM D-212 WITH 300 mm SICPP TO STRUCTURE (INV. 312.624) OUTLET WITH 34.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 312.599) TO D-210
D-212	HR 2+696.00 6.95 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 314.172 INLET FROM D-213 WITH 300 mm SICPP TO STRUCTURE (INV. 313.262) OUTLET WITH 16.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 313.237) TO D-211
D-213	HR 2+734.40 6.95 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 315.244 INLET FROM D-214 WITH 300 mm SICPP TO STRUCTURE (INV. 314.334) OUTLET WITH 37.2 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 314.309) TO D-212
D-214	HR 2+754.00 6.95 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 315.798 INLET FROM D-215 WITH 300 mm SICPP TO STRUCTURE (INV. 314.888) OUTLET WITH 18.4 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 314.863) TO D-213
D-215	HR 2+800.00 6.95 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 317.319 INLET FROM D-216 WITH 300 mm SICPP TO STRUCTURE (INV. 316.163) OUTLET WITH 44.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 316.138) TO D-214
D-216	HR 2+816.00 6.95 m RT.	604.0812 18 1EA	INSTALL INLINE DRAIN, PROVIDE 300 mm FRAME & GRATE, T.G. ELEV. 317.873 OUTLET WITH 14.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 316.963) TO D-215
D-300A	HR 1+174.50 4.50 m LT.	604.302016 0.82 m	INSTALL D.I. (TYPE T), PROVIDE RETICULINE 16 FRAME & GRATE (ITEM 655.1116), T.G. ELEV. 279.562 OUTLET WITH 2.2 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 278.940) TO D-300B (CONNECT TO EXISTING)
D-300B	HR 1+174.50 6.94 LT.	604.070301 1 EA	MODIFY EXISTING DRAINAGE STRUCTURE INLET FROM D-300A WITH 300 mm SICPP TO STRUCTURE (INV. 278.75)
D-301	HR 1+250.00 4.50 m LT.	604.302016 1.27 m	INSTALL D.I. (TYPE T), PROVIDE RETICULINE 16 FRAME & GRATE (ITEM 655.1116), T.G. ELEV. 283.525 INLET FROM D-302 WITH 300 mm SICPP TO STRUCTURE (INV. 282.475) OUTLET WITH 32.2 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 282.450) TO D-300 (CONNECT TO EXISTING)
D-302	HR 1+302.00 4.50 m LT.	604.301911 1.28 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 287.071 INLET FROM D-302A WITH 300 mm SICPP TO STRUCTURE (INV. 286.021) OUTLET WITH 50.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 285.996) TO D-301
D-302A	HR 1+340.00 4.50 m LT.	604.301911 1.42 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 289.051 INLET FROM D-303 WITH 300 mm SICPP TO STRUCTURE (INV. 287.862) OUTLET WITH 36.7 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 287.837) TO D-302
D-303	HR 1+392.00 4.50 m LT.	604.301911 1.89 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 289.702 INLET FROM D-304 WITH 300 mm SICPP TO STRUCTURE (INV. 288.190) OUTLET WITH 50.9 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 288.165) TO D-302A
D-304	HR 1+444.00 4.50 m LT.	604.301911 1.46 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 289.807 INLET FROM D-305 WITH 300 mm SICPP TO STRUCTURE (INV. 288.521) OUTLET WITH 50.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 288.496) TO D-303
D-305	HR 1+498.00 4.50 m LT.	604.301911 1.25 m	INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 290.152 OUTLET WITH 52.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 289.049) TO D-304

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
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BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

DRAINAGE TABLES

FISHER ASSOCIATES

DRAWING NO. DST-4
SHEET NO. 30 OF 130

DOCUMENT NAME: ◊FILENAME◊

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY M. BUTCHER DRAFTED BY T. DAVIS ESTIMATED BY CHECKED BY R. BENNETT

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DRAINAGE REMOVAL TABLE

ITEM 203.07 - SELECT GRANULAR FILL
ITEM 206.02 - TRENCH AND CULVERT EXCAVATION

REMOVAL	STATION	SIDE	OFFSET	ITEM 203.07	ITEM 206.02	DESCRIPTION
DR-1	1+893.63	RT	5.68	13.44	13.44	REMOVE DRAINAGE STRUCTURE AND 14.3m OF 400mm CIP
DR-2	1+905.98	LT	5.16	11.43	11.43	REMOVE DRAINAGE STRUCTURE AND 5.4m OF 900mm CIP WEST
				4.08	4.08	REMOVE 6.1m OF 120mm CMP NORTH
DR-3	1+910.51	RT	5.09	7.34	7.34	REMOVE DRAINAGE STRUCTURE AND 10.26m OF 400mm CIP NORTH
DR-4	1+949.44	LT	5.41	67.37	67.37	REMOVE DRAINAGE STRUCTURE AND 42.3m OF 900mm CIP EAST
DR-5	1+957.30	RT	5.84	9.84	9.84	REMOVE DRAINAGE STRUCTURE AND 12.65m OF 500mm CIP NORTH
DR-6	KS 1+012.57	LT	5.05	4.50	4.50	REMOVE DRAINAGE STRUCTURE AND 6.06m OF 500mm CIP SOUTH
DR-7	KS 1+012.66	RT	5.18	5.69	5.69	REMOVE DRAINAGE STRUCTURE AND 6.3m OF 500mm CIP SOUTH
DR-8	1+961.64	LT	5.69	19.10	19.10	REMOVE DRAINAGE STRUCTURE AND 10.81m OF 840mm CIP WEST
DR-9	1+974.33	LT	5.70	20.12	20.12	REMOVE DRAINAGE STRUCTURE AND 11.32m OF 840mm CIP WEST
DR-10	2+015.62	RT	5.80	10.91	10.91	REMOVE DRAINAGE STRUCTURE AND 10.6m OF 500mm CIP NORTH
				3.66	3.66	REMOVE 1.8m OF 450mm CIP SOUTH
DR-11	2+014.10	LT	5.70	59.01	59.01	REMOVE DRAINAGE STRUCTURE AND 38.7m OF 840mm CIP WEST
DR-12	2+048.38	LT	5.95	53.07	53.07	REMOVE DRAINAGE STRUCTURE AND 34.28m OF 840mm CIP WEST
DR-13	2+094.26	LT	5.20	69.96	69.96	REMOVE DRAINAGE STRUCTURE AND 45.88m OF 840mm CIP WEST
DR-14	2+141.91	LT	6.20	73.86	73.86	REMOVE DRAINAGE STRUCTURE AND 37.65m OF 840mm CIP WEST
DR-15	WS 1+010.6	LT	6.60	81.58	81.58	REMOVE END SECTION AND 5.7m OF 375mm CMP SOUTH
DR-16	2+155.92	LT	6.50	38.63	38.63	REMOVE DRAINAGE STRUCTURE AND 24m OF 840mm CIP WEST
DR-17	WS 1+029.39	RT	7.70	16.88	16.88	REMOVE END SECTION AND 17.1m OF 450mm CMP SOUTH
DR-18	2+198.94	LT	6.40	63.52	63.52	REMOVE DRAINAGE STRUCTURE AND 43.02m OF 840mm CIP WEST
				3.03	3.03	REMOVE 4.3m OF 150mm CMP NORTH
DR-19	2+247.20	LT	5.80	69.65	69.65	REMOVE DRAINAGE STRUCTURE AND 48.26mm OF 840mm CIP WEST
				2.90	2.90	REMOVE 4.3m OF 150mm CMP NORTH
DR-20	2+294.07	LT	5.70	68.84	68.84	REMOVE DRAINAGE STRUCTURE AND 95.13m OF 840mm CIP WEST
DR-21	2+184.69	RT	6.80	1.50	1.50	REMOVE END SECTION
DR-22	2+233.40	RT	5.30	35.28	35.28	REMOVE DRAINAGE STRUCTURE AND 48.71m OF 500mm CIP WEST
DR-23	2+262.41	RT	5.50	16.66	16.66	REMOVE END SECTION AND 29.01m OF 500mm CIP WEST
DR-24	2+278.00	RT	5.90	5.11	5.11	REMOVE 7.13m OF 500mm CIP
DR-25	2+335.00	RT	6.13	3.75	3.75	REMOVE 6.13m OF 500mm CIP
DR-26	2+340.89	LT	5.66	54.90	54.90	REMOVE DRAINAGE STRUCTURE AND 46.82m OF 840mm CIP WEST
				3.00	3.00	REMOVE 4.45m OF 150mm CMP NORTH
DR-27	2+394.40	LT	5.40	78.02	78.02	REMOVE STRUCTURE AND 53.51m OF 840mm CIP WEST
DR-28	2+412.39	RT	5.90	3.73	3.73	REMOVE 6.28m OF 500mm CIP
DR-29	2+440.39	LT	5.50	66.91	66.91	REMOVE STRUCTURE AND 45.99m OF 840mm CIP WEST
				2.79	2.79	REMOVE 4.45m OF 150mm CMP NORTH
DR-30	2+455.00	RT	5.90	3.91	3.91	REMOVE 6.3m OF 500mm CIP
DR-31	2+499.15	LT	5.50	83.04	83.04	REMOVE STRUCTURE AND 58.76m OF 840mm CIP WEST
DR-32	MS 1+016.90	LT	5.20	6.04	6.04	REMOVE END SECTION AND 10.84m OF 450mm CIP SOUTH
DR-33	MS 1+016.75	RT	5.03	9.96	9.96	REMOVE END SECTION AND 11.3m OF 450mm CIP SOUTH
DR-34	2+516.18	RT	6.00	3.80	3.80	REMOVE 6.7m OF 500mm CIP
DR-35	2+531.54	RT	5.90	3.86	3.86	REMOVE 6.12m OF 500mm CIP
DR-36	2+560.00	RT	5.70	3.89	3.89	REMOVE 6.5m OF 500mm CIP
DR-37	2+585.06	LT	5.30	121.52	121.52	REMOVE DRAINAGE STRUCTURE AND 85.91m OF 840mm CIP WEST
				3.26	3.26	REMOVE 4.8m OF 150mm CMP NORTH
DR-38	2+625.04	LT	5.46	59.94	59.94	REMOVE DRAINAGE STRUCTURE AND 39.98m OF 840mm CIP WEST REMOVE 10m OF 650mm CIP NORTH
DR-39	2+626.64	LT	10.50	6.85	6.85	REMOVE STONE HEADWALL AND 4.7m OF 650mm CIP SOUTH
DR-40	2+636.80	RT	5.90	3.38	3.38	REMOVE 6.41m OF 500mm CIP
DR-41	2+657.41	RT	5.70	3.64	3.64	REMOVE 5.7m OF 500mm CIP
DR-42	2+673.03	RT	5.60	1.56	1.56	REMOVE 5.81m OF 500mm CIP
DR-43	2+692.86	RT	5.80	3.59	3.59	REMOVE 6.14m OF 500mm CIP
DR-44	2+695.95	LT	5.90	82.77	82.77	REMOVE DRAINAGE STRUCTURE AND 70.91m OF 740mm CIP WEST
DR-45	2+697.00	LT	9.80	4.79	4.79	REMOVE HEADWALL STRUCTURE AND 3.24m OF 500mm CIP
DR-46	2+729.08	RT	5.70	7.52	7.52	REMOVE 2 TIMBER HEADWALLS AND 9m OF 500mm CIP
DR-47	2+734.93	LT	7.24	48.47	48.47	REMOVE DRAINAGE STRUCTURE AND 38.98m OF 740mm CIP WEST
DR-48	2+737.54	LT	12.43	2.47	2.47	REMOVE 5.2m OF 450mm CIP SOUTH
DR-49	2+756.34	LT	7.08	28.73	28.73	REMOVE DRAINAGE STRUCTURE AND 21.41m OF 740mm CIP WEST
DR-50	2+756.44	LT	13.97	3.68	3.68	REMOVE 6.38m OF 500mm CIP SOUTH
DR-51	2+748.85	RT	5.39	3.53	3.53	REMOVE 6.3m OF 375mm CMP
DR-52	2+794.47	RT	5.62	0.99	0.99	REMOVE 6.83m OF 375mm CMP
DR-53	2+811.76	RT	5.67	6.84	6.84	REMOVE 10.7m OF 500mm CIP

DRAINAGE REMOVAL TABLE

ITEM 203.07 - SELECT GRANULAR FILL
ITEM 206.02 - TRENCH AND CULVERT EXCAVATION

REMOVAL	STATION	SIDE	OFFSET	ITEM 203.07	ITEM 206.02	DESCRIPTION
DR-54	2+842.82	LT	5.40	79.73	79.73	REMOVE DRAINAGE STRUCTURE AND 86.48m OF 450mm CIP WEST
				2.15	2.15	REMOVE 4.4m OF 150mm CMP NORTH
DR-55	2+873.92	LT	5.60	31.07	31.07	REMOVE DRAINAGE STRUCTURE AND 31.10m OF 450mm CIP WEST
				2.87	2.87	REMOVE 4.3m OF 150mm CMP NORTH
DR-56	2+910.15	LT	5.80	35.40	35.40	REMOVE DRAINAGE STRUCTURE AND 36.23m OF 450mm CIP WEST
				2.14	2.14	REMOVE 4.3m OF 150mm CMP NORTH
DR-57	2+962.62	LT	5.60	3.11	3.11	REMOVE 6.12m OF 300mm CMP
DR-58	3+002.61	LT	5.70	2.92	2.92	REMOVE 6.14m OF 300mm CMP
DR-59	3+032.39	LT	5.67	2.87	2.87	REMOVE 6.07m OF 300mm CMP
DR-60	3+055.29	LT	5.60	3.08	3.08	REMOVE 7.9m OF 300mm CMP
DR-61	3+087.75	LT	5.90	6.90	6.90	REMOVE 9.13m OF 500mm CMP
DR-62	3+119.98	LT	5.30	3.76	3.76	REMOVE 6.48m OF 375mm CMP
DR-63	3+147.21	LT	6.00	7.78	7.78	REMOVE 2 CONC. HEADWALLS AND 5.82m OF 450mm CPP
DR-64	3+179.78	LT	6.10	12.47	12.47	REMOVE HEADWALL STRUCTURE AND 12.33m OF 500mm CMP
DR-65	3+203.27	LT	6.10	3.76	3.76	REMOVE 6.4m OF 375mm CMP
DR-66	3+232.56	LT	6.10	3.10	3.10	REMOVE HEADWALL
DR-67	3+310.73	LT	6.60	124.27	124.27	REMOVE DRAINAGE STRUCTURE AND 78.17m OF 500mm CIP WEST
DR-68	3+372.29	LT	6.30	51.61	51.61	REMOVE DRAINAGE STRUCTURE AND 61.56m OF 500mm CIP WEST
DR-69	3+410.77	LT	5.90	25.28	25.28	REMOVE DRAINAGE STRUCTURE AND 38.48m OF 500mm CIP WEST
DR-70	3+444.18	LT	6.20	18.87	18.87	REMOVE DRAINAGE STRUCTURE AND 33.41m OF 500mm CIP WEST
DR-71	1+215.66	LT	7.15	5.00	5.00	REMOVE STONE HEADWALL
DR-72	2+143.84	RT	11.15	6.85	6.85	REMOVE 6.2 m OF 450mm CMP & 2 END SECTIONS
			TOTAL(S)	435 CM	435 CM	

NOTE:

1. NO PAYMENT WILL BE MADE FOR REMOVAL OF PIPES THAT FALL WITHIN EXCAVATION LIMITS OF NEW PIPE TRENCHES OR ROAD RECONSTRUCTION

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

DRAINAGE REMOVAL TABLES

FISHERASSOCIATES

DRAWING NO. DRT-1
SHEET NO. 31 OF 130

DOCUMENT NAME: @FILENAME@

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

CURBING, CURB & GUTTER, AND CONCRETE MALL

ITEM 609.0401 - CAST-IN-PLACE CONCRETE CURB, TYPE VF 150
ITEM 624.0109 - CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTERS
ITEM 609.0203 - STONE CURB, GRANITE, (TYPE C)
ITEM 609.0407 - CAST-IN-PLACE COCRETE CURB, TYPE T100

STATION TO STATION	SIDE	ITEM 609.0401 m	ITEM 624.0109 m^2	ITEM 609.0203 m	ITEM 609.0407 m
HR 1+081.4 TO HR 1+093.6	LT	-	-	30.5	30.5
HR 1+106.5 TO HR 1+325.0	LT	-	-	220.4	220.4
HR 1+325.0 TO HR 1+676.0	LT	351.0	-	-	-
HR 1+752.4 TO BN 1+013.2	LT	13.8	-	-	-
BN 1+013.4 TO HR 1+795.4	RT-LT	29.6	-	-	-
HR 1+835.0 TO HR 1+893.0	LT	-	-	-	58.0
HR 1+953.2 TO KS 1+010.0	LT	11.4	-	-	-
KS 1+012.8 TO HR 1+982.5	RT-LT	15.0	-	-	-
HR 2+060.5 TO WS 1+024.4	LT	97.9	-	-	-
HR 2+119.4 TO WS 0+977.3	RT-LT	21.0	-	-	-
WS 0+984.8 TO HR 2+157.8	RT	21.8	-	-	-
WS 1+023.7 TO HR 2+225.0	RT-LT	80.4	-	-	-
HR 2+372.0 TO HR 2+382.0	LT	-	-	-	10.0
HR 3+058.4 TO HR 3+290.0	LT	-	231.6	-	-
MS 1+008.7 TO MS 1+084.8	LT	-	70.4	-	-
MS 1+008.7 TO MS 1+084.8	RT	-	70.4	-	-
	TOTAL	641.9 m	372.4 m^2	250.9 m	68.0 m

GRADING RELEASE TABLE

REPUTED OWNER	STREET ADDRESS	PURPOSE
JOHN & GILDA YALEY	1021 HANSHAW ROAD	DRIVEWAY GRADING
ZU YU PU & YANG MING YUAN	1101 HANSHAW ROAD	TREE PLANTING
MARY JO CONGDON	1416 HANSHAW ROAD	TREE REMOVAL & DRIVEWAY GRADING
JEAN HOPE & EUGENA BARNABA	100 KAY STREET	GRADING & TREE REMOVAL

GUIDE RAILING - INSTALLATION

ITEM 606.10 - BOX BEAM GUIDE RAILING
ITEM 606.120201 - BOX BEAM GUIDE RAIL END ASSEMBLY, TYPE IIA

STATION TO STATION	SIDE	POST SPACING	LENGTH	ITEM 606.10 (m)	ITEM 606.120201 (EA)
1+199.730 TO 1+206.690	RT	1.82	7.49	-	1
1+206.690 TO 1+243.980	RT	1.82	37.29	37.29	-
1+243.980 TO 1+250.730	RT	1.82	7.49	-	1
			TOTAL	37 m	2 EA

NOTE: STATION TO STATION DISTANCE MAY NOT EQUAL TRUE DISTANCE DUE TO RADIUS.

SIDEWALK TABLE

ITEM 608.0101- CONCRETE SIDEWALKS AND DRIVEWAYS
ITEM 608.020102- HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS
ITEM 304.15 - SUBBASE COURSE, OPTIONAL TYPE

STATION TO STATION	SIDE	LENGTH	WIDTH	ITEM 608.0101	ITEM 608.020102	ITEM 304.15
HR 1+070.00 TO HR 1+110.00	LT	40.00	1.525	9.15	-	14.58
HR 1+110.00 TO HR 1+242.00	LT	132.00	1.525	20.13	-	36.14
HR 1+242.00 TO HR 1+255.00	LT	10.00	VARIES	2.30	-	3.90
HR 1+255.00 TO HR 1+320.00	LT	65.00	2.10	13.65	-	23.40
HR 1+320.00 TO HR 1+325.00	LT	6.00	VARIES	0.91	-	1.64
HR 1+325.00 TO HR 1+388.00	LT	63.00	1.525	-	11.9	17.25
HR 1+388.00 TO HR 1+393.00	LT	5.00	VARIES	-	1.03	1.47
HR 1+393.00 TO HR 1+676.00	LT	283.00	1.80	-	62.96	89.15
HR 1+676.00 TO HR 1+680.00	LT	4.00	VARIES	-	0.82	1.26
HR 1+680.00 TO HR 1+759.00	LT	79.0	1.525	-	14.99	21.64
HR 1+772.50 TO HR 1+962.50	LT	190.0	1.525	-	35.81	52.01
HR 1+974.50 TO HR 2+057.00	LT	83.0	1.525	-	15.55	43.81
HR 2+057.00 TO HR 2+062.00	LT	5.0	VARIES	-	1.12	-
HR 2+062.00 TO HR 2+134.50	LT	57.5	2.1	-	18.82	-
HR 2+160.50 TO HR 2+225.00	LT	64.50	1.8	-	14.35	20.32
HR 2+225.00 TO HR 2+229.00	LT	4.00	VARIES	-	0.82	1.26
HR 2+229.00 TO HR 2+368.00	LT	139.00	1.525	-	26.20	34.92
HR 2+368.00 TO HR 2+372.00	LT	4.00	VARIES	-	0.82	1.26
HR 2+372.00 TO HR 2+382.00	LT	10.00	1.80	-	2.22	3.15
HR 2+382.00 TO HR 2+386.00	LT	4.00	VARIES	-	0.82	1.26
HR 2+386.00 TO HR 2+500.00	LT	114.00	1.525	-	21.49	31.21
HR 2+513.00 TO HR 2+735.70	LT	222.7	1.525	-	42.11	60.95
HR 2+758.10 TO HR 3+052.00	LT	293.9	1.525	-	55.58	80.45
HR 3+052.00 TO HR 3+058.00	LT	6.00	VARIES	-	1.23	1.89
HR 3+058.00 TO HR 3+290.00	LT	232.00	1.80	-	51.62	73.08
HR 3+290.00 TO HR 3+300.00	LT	10.00	VARIES	-	2.06	3.15
HR 3+300.00 TO HR 3+446.00	LT	146.0	1.525	-	27.52	39.86
			TOTALS	46.2 m^3	409.7 MT	656 m^3

UTILITY POLE RELOCATION

STATION	SIDE	CONFLICT	RELOCATE TO	OWNER
HR 1+115.00	LT	SIDEWALK	MOVE SOUTH	NYSEG-NYT
HR 1+242.00	LT	SIDEWALK	CURB LAWN	NYSEG-NYT
HR 1+335.00	RT	SHOULDER	MOVE SOUTH	NYSEG-NYT
HR 1+365.00	RT	SHOULDER	MOVE SOUTH	NYSEG
HR 1+389.00	RT	SHOULDER	MOVE SOUTH	NYSEG-NYT
HR 1+392.00	LT	SIDEWALK	MOVE NORTH	NYNEX
HR 1+438.00	RT	CLEAR ZONE	MOVE SOUTH	NYSEG-NYT
HR 1+484.00	LT	SIDEWALK	MOVE NORTH	UNKNOWN
HR 1+667.00	RT	SHOULDER	MOVE SOUTH	NYSEG-NYT
HR 1+897.00	RT	DRAINAGE	MOVE SOUTH AND/OR WEST	NYSEG-NYT
HR 2+498.00	LT	DRAINAGE	MOVE NORTH	NYSEG-NYT
HR 2+814.00	LT	SIDEWALK	MOVE NORTH	NYSEG
HR 3+447.00	LT	SHOULDER	MOVE NORTH	NYSEG-NYT
HR 3+449.00	RT	SHOULDER	MOVE SOUTH	NYSEG-NYT

DETECTABLE WARNINGS - ITEM 608.20

STATION	SIDE	TYPE	ITEM 608.20 m^2
HR 1+081.4	LT	1	0.93
HR 1+093.6	LT	1	0.93
HR 1+757.7	LT	1	0.93
HR 1+774.3	LT	1	0.93
HR 1+892.0	LT	1	0.93
HR 1+961.3	LT	1	0.93
HR 1+975.3	LT	1	0.93
HR 2+132.5	LT	2	4.02
HR 2+162.3	LT	2	2.07
HR 2+498.1	LT	1	0.93
HR 2+513.3	LT	1	0.93
HR 2+734.3	LT	1	0.93
HR 2+759.4	LT	1	0.93
HR 3+444.3	LT	1	0.93
		TOTAL	17.3 m^2

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

MISCELLANEOUS TABLES

FISHERASSOCIATES

DRAWING NO. MT-1
SHEET NO. 32 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: 375325A_MT.DGN

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

MAILBOX RELOCATION TABLE
ITEM 619.27

STATION	SIDE	QUANTITY
HR 1+178	RT	4
HR 1+260	RT	1
HR 1+289	RT	1
HR 1+294	RT	1
HR 1+354	RT	3
HR 1+417	RT	1
HR 1+439	RT	1
HR 1+457	RT	1
HR 1+485	RT	2
HR 1+513	RT	2
HR 1+560	RT	2
HR 1+620	RT	2
HR 1+640	RT	1
HR 1+665	RT	1
HR 1+676	RT	1
HR 1+704	RT	1
HR 1+775	RT	1
HR 1+822	RT	1
HR 1+835	RT	1
HR 1+862	RT	1
HR 1+931	RT	1
HR 1+971	RT	1
HR 1+983	RT	1
HR 2+005	RT	1
HR 2+043	RT	2
HR 2+068	RT	1
HR 2+084	RT	1
HR 2+217	RT	2
HR 2+236	LT	1
HR 2+274	LT	1
HR 2+338	LT	2
HR 2+356	LT	1
HR 2+412	LT	3
HR 2+473	LT	2
HR 2+520	LT	2
HR 2+566	LT	2
HR 2+585	LT	1
HR 2+635	LT	2
HR 2+666	LT	2
HR 2+721	LT	3
HR 2+785	LT	2
HR 2+815	LT	1
HR 2+859	LT	1
HR 2+907	LT	1
HR 2+966	LT	1
HR 2+999	LT	1
HR 3+029	LT	1
HR 3+051	LT	1
HR 3+092	LT	1
HR 3+124	LT	1
HR 3+151	LT	1
HR 3+180	LT	1
HR 3+208	LT	1
HR 3+246	LT	1
HR 3+338	LT	1
HR 3+373	LT	1
HR 3+402	LT	1
	TOTAL	79 EA

DRIVEWAY TABLE

LOCATION STATION	LOCATION SIDE	EXISTING MATERIAL	W	L	ASPHALT ITEM 608.020102 (MT) APRON	ASPHALT ITEM 608.020102 (MT) DRIVEWAY	STONE ITEM 623.12 (CM)	SUBBASE ITEM 304.15 (CM)
HR 1+076	LT	ASPHALT	11.30	4.80	3.11	4.47	-	6.14
HR 1+098	LT	ASPHALT	13.80	4.80	4.23	4.47	-	7.04
HR 1+167	LT	ASPHALT	13.84	6.10	3.47	12.11	-	12.61
HR 1+162	RT	ASPHALT	18.92	3.50	-	13.04	-	10.55
HR 1+255	RT	ASPHALT	4.89	4.90	-	5.78	-	4.68
HR 1+284	LT	NONE	3.60	0.00	CURB CUT ONLY, NO WORK BEHIND SIDEWALK			
HR 1+285	RT	ASPHALT	6.42	3.70	-	4.74	-	3.83
HR 1+299	RT	STONE	3.58	4.70	1.27	-	1.34	3.03
HR 1+353	LT	STONE	2.66	5.40	-	-	1.17	1.75
HR 1+361	LT	ASPHALT	3.71	3.30	-	2.44	-	1.97
HR 1+383	LT	NONE	4.80	1.52	1.52	NO WORK BEHIND SIDEWALK		4.75
HR 1+412	RT	ASPHALT	4.57	3.50	-	3.31	-	2.68
HR 1+449	LT	STONE	3.68	6.81	-	-	2.56	3.84
HR 1+453	RT	ASPHALT	5.21	3.59	-	3.94	-	3.19
HR 1+488	RT	ASPHALT	2.90	3.90	-	2.88	-	2.33
HR 1+493	LT	STONE	3.26	2.77	-	-	0.97	1.46
HR 1+510	LT	ASPHALT	9.66	3.33	-	4.56	-	3.69
HR 1+519	RT	ASPHALT	3.44	3.98	-	3.31	-	2.67
HR 1+544	LT	ASPHALT	3.85	4.41	-	3.27	-	2.65
HR 1+558	RT	ASPHALT	3.39	3.98	-	3.29	-	2.66
HR 1+570	LT	ASPHALT	3.64	5.13	-	3.52	-	2.85
HR 1+605	LT	ASPHALT	4.04	5.44	-	4.09	-	3.31
HR 1+616	RT	ASPHALT	3.66	4.29	-	3.77	-	3.05
HR 1+643	LT	ASPHALT	4.11	4.80	-	3.69	-	2.98
HR 1+647	RT	ASPHALT	2.87	4.39	-	3.16	-	2.56
HR 1+671	LT	ASPHALT	7.97	4.20	-	4.66	-	3.77
HR 1+681	RT	ASPHALT	3.17	4.26	-	3.30	-	2.67
HR 1+703	LT	ASPHALT	6.30	5.47	1.47	4.21	-	4.60
HR 1+710	RT	ASPHALT	6.39	4.08	-	5.26	-	4.26
HR 1+806	RT	ASPHALT	3.64	4.05	-	3.48	-	2.82
HR 1+824	LT	ASPHALT	7.17	5.36	2.22	6.04	-	6.69
HR 1+838	RT	STONE	3.73	3.63	1.36	-	1.03	2.64
HR 1+870	LT	ASPHALT	4.53	7.40	6.74	0.75	-	6.05
HR 1+934	RT	ASPHALT	2.80	3.71	-	2.68	-	2.17
HR 1+974	RT	ASPHALT	4.83	3.84	-	3.85	-	3.12
HR 2+002	RT	ASPHALT	3.09	3.88	-	3.02	-	2.44
HR 2+031	LT	ASPHALT	4.11	3.22	1.25	1.57	-	2.28
HR 2+033	LT	ASPHALT	4.69	5.33	1.19	2.40	-	2.91
HR 2+040	RT	ASPHALT	4.60	4.66	-	4.40	-	3.56
HR 2+073	RT	ASPHALT	6.37	6.12	-	5.95	1.49	4.82
HR 2+087	LT	STONE	4.31	3.42	-	-	-	2.23
WS 1+028	LT	STONE					2.99	
HR 2+228	RT	STONE	5.18	4.92	-	-	-	4.49
HR 2+230	LT	ASPHALT	4.11	4.67	1.16	1.57	-	2.21
HR 2+260	LT	ASPHALT	3.14	4.81	2.25	1.29	-	2.87
HR 2+279	RT	ASPHALT	4.55	2.78	-	2.73	-	2.21
HR 2+306	LT	ASPHALT	4.60	5.80	1.33	3.93		4.26

DRIVEWAY TABLE (CONT.)

LOCATION STATION	LOCATION SIDE	EXISTING MATERIAL	W	L	ASPHALT ITEM 608.020102 (MT) APRON	ASPHALT ITEM 608.020102 (MT) DRIVEWAY	STONE ITEM 623.12 (CM)	SUBBASE ITEM 304.15 (CM)
HR 2+334	RT	ASPHALT	4.56	3.97	-	3.69	-	2.98
HR 2+346	LT	ASPHALT	8.79	3.35	2.51	3.56	-	4.92
HR 2+405	LT	ASPHALT	5.20	4.21	1.44	2.85	-	3.47
HR 2+412	RT	ASPHALT	5.21	3.84	-	4.07	-	3.29
HR 2+456	RT	ASPHALT	4.14	2.93	-	2.63	-	2.13
HR 2+468	LT	STONE	3.33	5.97	1.14	-	1.64	3.38
HR 2+513	RT	ASPHALT	4.92	5.03	-	4.91	-	3.98
HR 2+532	RT	ASPHALT	3.06	5.47	-	4.50	-	3.64
HR 2+560	RT	ASPHALT	2.82	3.73	-	2.71	-	2.19
HR 2+561	LT	ASPHALT	3.74	7.00	1.43	4.13	-	4.50
HR 2+590	LT	ASPHALT	4.37	6.86	1.22	4.45	-	4.59
HR 2+621	LT	STONE	3.05	9.64	1.24	-	2.66	4.98
HR 2+637	RT	ASPHALT	4.20	5.08	-	4.33	-	3.50
HR 2+641	LT	ASPHALT	3.41	3.99	1.29	1.79	-	2.50
HR 2+657	RT	GRASS					-	
HR 2+660	LT	ASPHALT	3.36	4.57	1.28	2.12	-	2.75
HR 2+673	RT	STONE	4.27	3.65	1.25	-	1.08	2.62
HR 2+691	RT	STONE	4.52	4.09	1.37	-	1.38	3.18
HR 2+727	LT	ASPHALT	5.33	7.73	1.43	6.51	-	6.42
HR 2+729	RT	ASPHALT	6.28	5.01	-	6.22	-	5.04
HR 2+748	RT	ASPHALT	5.21	2.00	-	2.07	-	1.67
HR 2+768	LT	ASPHALT	4.00	3.48	1.23	1.73	-	2.40
HR 2+790	LT	ASPHALT	4.30	3.16	1.23	2.48	-	3.01
HR 2+794	RT	ASPHALT	6.05	2.88	-	3.61	-	2.92
HR 2+812	RT	STONE	3.56	4.44	1.33	-	1.29	3.02
HR 2+818	LT	STONE	3.30	4.14	1.26	-	0.98	2.48
HR 2+855	LT	ASPHALT	7.85	1.84	1.39	0.63	-	1.63
HR 2+903	LT	ASPHALT	4.22	2.26	0.84	1.27	-	1.71
HR 2+932	LT	ASPHALT	4.72	4.88	3.23	1.36	-	3.71
HR 2+963	LT	STONE	3.14	3.19	1.29	-	0.66	2.04
HR 3+002	LT	ASPHALT	3.81	4.49	1.46	2.32	-	3.05
HR 3+032	LT	ASPHALT	2.95	2.58	1.35	0.80	-	1.74
HR 3+054	LT	ASPHALT	4.71	1.42	1.03	1.28	-	1.87
HR 3+087	LT	ASPHALT	5.22	1.30	-	1.30	-	1.05
HR 3+120	LT	ASPHALT	4.05	1.36	-	1.04	-	0.84
HR 3+147	LT	ASPHALT	4.75	4.06	-	3.67	-	2.97
HR 3+176	LT	ASPHALT	6.09	2.84	-	3.29	-	2.66
HR 3+203	LT	ASPHALT	6.90	2.66	-	2.81	-	2.27
HR 3+249	LT	ASPHALT	7.16	6.40	-	5.23	-	4.23
HR 3+342	LT	STONE	3.58	3.13	2.12	-	0.49	2.45
HR 3+377	LT	ASPHALT	3.84	5.37	2.06	2.50	-	3.69
HR 3+406	LT	STONE	3.98	2.97	1.27	-	0.71	2.10
HR 3+425	LT	ASPHALT	6.78	3.12	1.86	2.43	-	3.48
				TOTAL	71.1 MT	249.3 MT	22.4 CM	296.4 CM

PAY ITEM	DESCRIPTION
304.15	SUBBASE COURSE, OPTIONAL TYPE
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS, BICYCLES PATHS & VEGETATION CONTROL STRIPS
623.12	CRUSHED STONE (IN-PLACE MEASURE)

NOTES:

1. SEE THE STANDARD SHEETS "POLICY AND STANDARDS FOR THE DESIGN OF ENTRANCES TO STATE HIGHWAYS" FOR FURTHER DETAILS.
2. THE DESIGNER AND THE APPROPRIATE REFERENCES (SEE NOTE 1) SHALL BE CONSULTED BEFORE ADDING ADDITIONAL DRIVEWAYS OR CHANGING THE DRIVEWAY LAYOUT OR ENTRANCE TYPE.

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

MISCELLANEOUS TABLES

FISHERASSOCIATES

DRAWING NO. MT-2
SHEET NO. 33 OF 130

DOCUMENT NAME: 375325B_MT.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

WATER VALVE ADJUSTMENT - ITEM 663.33

STATION	SIDE	OFFSET	ITEM 663.33
HR 1+082	LT	4.7	1
HR 1+101	LT	4.7	1
HR 1+115	LT	4.9	1
HR 1+313	LT	5.3	1
HR 1+315	LT	4.7	1
HR 1+534	LT	6.3	1
HR 1+626	LT	7.4	1
HR 1+768	LT	6.0	1
HR 1+769	LT	7.0	1
HR 1+770	LT	7.5	1
HR 1+899	LT	5.0	1
HR 1+974	LT	5.0	1
HR 2+122	LT	3.2	1
HR 2+139	RT	16.5	1
HR 2+141	LT	4.8	1
HR 2+144	LT	14.4	1
HR 2+154	LT	3.8	1
HR 2+285	LT	7.0	1
HR 2+323	RT	5.0	1
HR 2+324	RT	4.9	1
HR 2+334	LT	7.1	1
HR 2+366	LT	6.5	1
HR 2+388	LT	4.6	1
HR 2+426	LT	7.1	1
HR 2+463	LT	7.2	1
HR 2+509	RT	3.3	1
HR 2+510	RT	3.3	1
HR 2+510	LT	7.8	1
HR 2+511	RT	3.3	1
HR 2+511	LT	8.4	1
HR 2+523	RT	3.4	2
HR 2+550	LT	7.8	2
HR 2+602	LT	7.6	1
HR 2+630	LT	4.8	1
HR 2+638	LT	6.2	2
HR 2+638	RT	3.7	1
HR 2+668	LT	6.5	2
HR 2+683	RT	3.9	1
HR 2+741	RT	3.6	1
HR 2+742	LT	5.0	1
HR 2+742	LT	13.6	1
HR 2+743	RT	3.7	1
HR 2+812	LT	3.8	1
HR 2+826	LT	3.2	1
HR 2+827	LT	5.7	1
HR 2+863	LT	6.5	1
HR 2+877	RT	6.2	1
HR 2+877	LT	5.8	1
HR 2+922	LT	6.1	1
HR 2+948	LT	6.5	1
HR 2+990	LT	6.3	1
HR 3+019	LT	6.7	1
HR 3+045	LT	4.6	1
HR 3+058	RT	6.0	1
HR 3+059	RT	6.0	1
HR 3+182	LT	7.1	1
HR 3+240	RT	5.2	1
HR 3+241	RT	4.8	1
HR 3+276	LT	6.1	1
HR 3+285	LT	6.2	1
HR 3+392	LT	8.6	1
HR 3+449	LT	10.6	1
HR 3+449	LT	14.2	1
HR 3+449	LT	12.2	1
		TOTAL	67 EA

UNDERDRAIN

ITEM 605.1001 - UNDERDRAIN FILTER, TYPE II
ITEM 605.1701- OPTIONAL UNDERDRAIN PIPE, 100mm DIA.

STATION TO STATION	SIDE	605.1701	605.1001	REMARKS
HR 1+250.0 TO HR 1+302.0	LT	52.0	12.9	D-302 TO D-301
HR 1+302.0 TO HR 1+340.0	LT	38.0	9.4	D-302A TO D-302
HR 1+340.0 TO HR 1+392.0	LT	52.0	12.9	D-303 TO D-302A
HR 1+392.0 TO HR 1+444.0	LT	52.0	12.9	D-304 TO D-303
HR 1+444.0 TO HR 1+498.0	LT	54.0	13.4	D-305 TO D-304
HR 1+498.0 TO HR 1+538.2	LT	40.2	9.9	D-106 TO D-305
HR 1+538.2 TO HR 1+576.0	LT	37.8	9.4	D-105 TO D-106
HR 1+576.0 TO HR 1+650.0	LT	74.0	18.3	D-104 TO D-105
HR 1+650.0 TO HR 1+683.0	LT	33.0	8.2	D-103A TO D-104
HR 1+683.0 TO HR 1+701.2	LT	18.2	4.5	HIGH POINT TO D-103A
HR 1+701.2 TO HR 1+718.0	LT	16.8	4.2	HIGH POINT TO D-103
HR 1+718.0 TO HR 1+751.7	LT	33.7	8.3	D-103 TO D-102
HR 1+751.7 TO HR 1+759.0	LT	7.3	1.8	D-102 TO D-101
HR 1+775.0 TO HR 1+796.0	LT	21.0	5.2	BLACKSTONE AVE TO D-108
HR 1+796.0 TO HR 1+818.0	LT	22.0	5.4	D-108 TO D-109
HR 1+818.0 TO HR 1+848.7	LT	30.7	7.6	D-109 TO D-110
HR 1+848.7 TO HR 1+876.0	LT	27.3	6.8	D-110 TO D-111
HR 1+876.0 TO HR 1+898.0	LT	22.0	5.4	D-112 TO D-111
HR 1+898.0 TO HR 1+952.0	LT	54.0	13.4	D-117 TO D-112
HR 1+980.7 TO HR 2+016.0	LT	35.3	8.7	D-121 TO D-120
HR 2+016.0 TO HR 2+038.0	LT	22.0	5.4	D-125 TO D-121
HR 2+038.0 TO HR 2+056.7	LT	18.7	4.6	D-126 TO D-125
HR 2+056.7 TO HR 2+108.0	LT	51.3	12.7	D-127 TO D-126
HR 2+108.0 TO HR 2+136.0	LT	28.0	6.9	D-129 TO D-127
HR 2+166.2 TO HR 2+236.0	LT	69.8	17.3	D-134 TO D-132
HR 2+236.0 TO HR 2+264.0	LT	28.0	6.9	D-135 TO D-134
HR 2+264.0 TO HR 2+312.0	LT	48.0	11.9	D-136 TO D-135
HR 2+312.0 TO HR 2+354.0	LT	42.0	10.4	D-137 TO D-136
HR 2+354.0 TO HR 2+410.0	LT	56.0	13.9	D-138 TO D-137
HR 2+410.0 TO HR 2+474.0	LT	64.0	15.8	D-139 TO D-138
HR 2+474.0 TO HR 2+496.8	LT	22.8	5.6	D-140 TO D-139
HR 2+513.4 TO HR 2+520.0	LT	6.6	1.6	D-144 TO D-141
HR 2+520.0 TO HR 2+566.0	LT	46.0	11.4	D-145 TO D-144
HR 2+566.0 TO HR 2+594.0	LT	28.0	6.9	D-146 TO D-145
HR 2+594.0 TO HR 2+626.0	LT	32.0	7.9	D-147 TO D-146
HR 2+626.0 TO HR 2+646.0	LT	20.0	5.0	DS-149 TO DS-147
HR 2+646.0 TO HR 2+666.0	LT	20.0	5.0	DS-150 TO DS-149
HR 2+666.0 TO HR 2+696.0	LT	30.0	7.4	DS-151 TO DS-150
HR 2+696.0 TO HR 2+729.6	LT	33.6	8.3	DS-152 TO DS-151
HR 2+754.4 TO HR 2+772.0	LT	17.6	4.4	DS-155 TO DS-154
HR 2+772.0 TO HR 2+794.0	LT	22.0	5.4	DS-156 TO DS-155
HR 2+794.0 TO HR 2+822.0	LT	28.0	6.9	DS-157 TO DS-156
HR 2+822.0 TO HR 2+860.0	LT	38.0	9.4	DS-158 TO DS-157
HR 2+860.0 TO HR 2+908.0	LT	48.0	11.9	DS-159 TO DS-158
HR 2+908.0 TO HR 2+936.0	LT	28.0	6.9	DS-160 TO DS-159
HR 2+936.0 TO HR 2+968.0	LT	32.0	7.9	DS-161 TO DS-160
HR 2+968.0 TO HR 3+008.0	LT	40.0	9.9	DS-162 TO DS-161
HR 3+008.0 TO HR 3+036.0	LT	28.0	6.9	DS-163 TO DS-162
HR 3+036.0 TO HR 3+060.0	LT	24.0	5.9	DS-164 TO DS-163
HR 3+060.0 TO HR 3+094.0	LT	34.0	8.4	DS-165 TO DS-164
HR 3+094.0 TO HR 3+125.3	LT	31.3	7.7	DS-166 TO DS-165
HR 3+125.3 TO HR 3+153.0	LT	27.7	6.9	DS-167 TO DS-166
HR 3+153.0 TO HR 3+182.0	LT	29.0	7.2	DS-168 TO DS-167
HR 3+182.0 TO HR 3+210.0	LT	28.0	6.9	DS-169 TO DS-168
HR 3+210.0 TO HR 3+254.0	LT	44.0	10.9	DS-170 TO DS-169
HR 3+254.0 TO HR 3+310.9	LT	56.9	14.1	HIGH POINT TO DS-170
HR 3+310.9 TO HR 3+338.0	LT	27.1	6.7	HIGH POINT TO DS-171
HR 3+338.0 TO HR 3+352.0	LT	14.0	3.5	DS-171 TO DS-172
HR 3+352.0 TO HR 3+382.0	LT	30.0	7.4	DS-173 TO DS-172
HR 3+382.0 TO HR 3+410.0	LT	28.0	6.9	DS-174 TO DS-173
HR 3+410.0 TO HR 3+430.0	LT	20.0	5.0	DS-175 TO DS-174

UNDERDRAIN (CONT.)

ITEM 605.1001 - UNDERDRAIN FILTER, TYPE II
ITEM 605.1701- OPTIONAL UNDERDRAIN PIPE, 100mm DIA.

STATION TO STATION	SIDE	605.1701	605.1001	REMARKS
HR 3+430.0 TO HR 3+443.9	LT	13.9	3.4	HIGH POINT TO DS-175
HR 1+701.2 TO HR 1+755.8	RT	54.6	13.5	HIGH POINT TO DS-107
HR 1+775.0 TO HR 1+893.3	RT	118.3	29.3	BLACKSTONE AVE TO DS-113
HR 1+912.4 TO HR 2+015.8	RT	103.4	25.6	DS-122 TO DS-116
HR 2+015.8 TO HR 2+092.2	RT	76.4	18.9	DS-123 TO DS-122
HR 2+092.2 TO HR 2+111.4	RT	19.2	4.8	DS-128 TO DS-123
HR 2+234.0 TO HR 2+284.0	RT	50.0	12.4	DS-202 TO DS-201
HR 2+284.0 TO HR 2+338.0	RT	54.0	13.4	DS-203 TO DS-202
HR 2+338.0 TO HR 2+418.0	RT	80.0	19.8	DS-204 TO DS-203
HR 2+418.0 TO HR 2+460.0	RT	42.0	10.4	DS-205 TO DS-204
HR 2+460.0 TO HR 2+518.0	RT	58.0	14.4	DS-206 TO DS-205
HR 2+518.0 TO HR 2+536.0	RT	18.0	4.5	DS-207 TO DS-206
HR 2+536.0 TO HR 2+564.0	RT	28.0	6.9	DS-208 TO DS-207
HR 2+564.0 TO HR 2+624.2	RT	60.2	14.9	DS-209 TO DS-208
HR 2+624.2 TO HR 2+642.0	RT	17.8	4.4	DS-210 TO DS-209
HR 2+642.0 TO HR 2+678.0	RT	36.0	8.9	DS-211 TO DS-210
HR 2+678.0 TO HR 2+696.0	RT	18.0	4.5	DS-212 TO DS211
HR 2+696.0 TO HR 2+734.4	RT	38.4	9.5	DS-213TO DS-212
HR 2+734.4 TO HR 2+754.0	RT	19.6	4.9	DS-214 TO DS-213
HR 2+754.0 TO HR 2+800.0	RT	46.0	11.4	DS-215 TO DS-214
HR 2+800.0 TO HR 2+816.0	RT	16.0	4.0	DS-216 TO DS-215
WS 1+005.0 TO WS 1+050.0	LT	45.0	11.1	WORK LIMIT TO DS-129
WS 1+015.0 TO WS 1+050.0	RT	35.0	8.7	WORK LIMIT TO DS-131
MS 1+004.0 TO MS 1+011.0	LT	7.0	1.7	DS-143 TO DS-140
MS 1+011.0 TO MS 1+060.0	LT	49.0	12.1	DS-143A TO DS-143
MS 1+060.0 TO MS 1+085.0	LT	25.0	6.2	WORK LIMIT TO DS-143A
MS 1+004.0 TO MS 1+011.0	RT	7.0	1.7	DS-142 TO DS-141
MS 1+011.0 TO MS 1+060.0	RT	49.0	12.1	DS-142A TO DS-142
MS 1+060.0 TO MS 1+085.0	RT	25.0	6.2	WORK LIMIT TO DS-142A
TOTAL		3274 m	810 m²	

ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES - ITEM 604.070301

STATION	SIDE	OFFSET	ITEM 604.070301
HR 1+174	LT	6.9	1
HR 1+205	RT	6.3	1
HR 1+232	RT	5.3	1
HR 1+278	RT	4.9	1
HR 1+314	RT	4.7	1
HR 1+724	RT	5.4	1
HR 1+761	RT	5.8	1
HR 1+899	RT	6.2	1
HR 2+085	RT	6.0	1
HR 2+139	LT	9.1	1
HR 2+238	LT	7.1	1
HR 2+326	LT	7.1	1
HR 2+404	LT	6.6	1
HR 2+494	LT	6.7	1
HR 2+597	LT	6.7	1
HR 2+643	LT	6.6	1
HR 2+744	LT	6.2	1
HR 2+836	LT	8.6	1
HR 2+928	LT	6.7	1
HR 3+018	LT	8.5	1
		TOTAL	20 EA

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-28-2013

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

MISCELLANEOUS TABLES

FISHERASSOCIATES

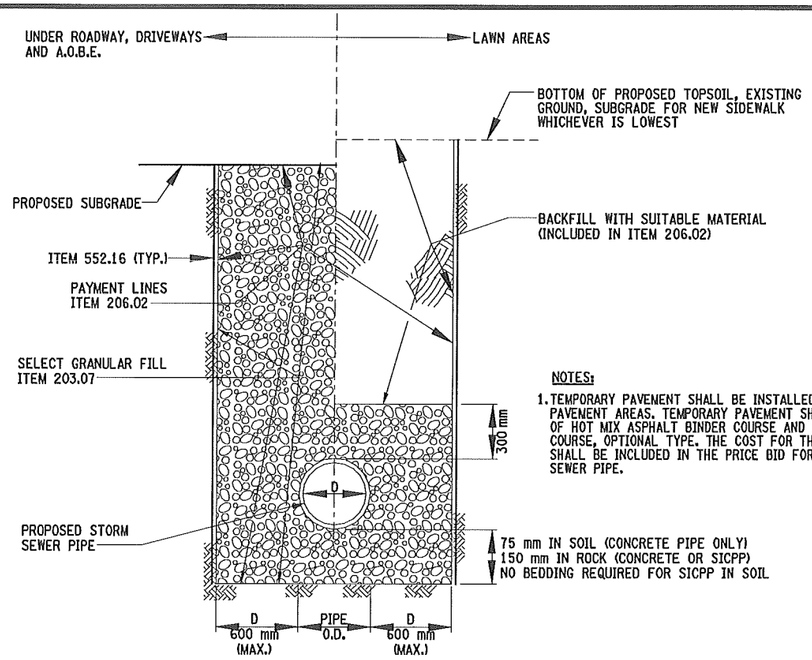
DRAWING NO. MT-3
SHEET NO. 34 OF 130

DOCUMENT NAME: 375325C_MT.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

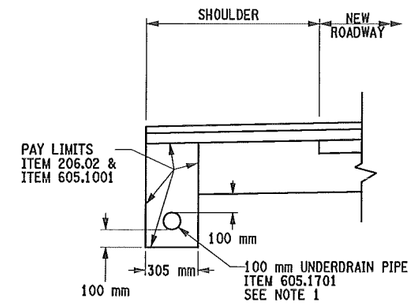


NOTES:

1. TEMPORARY PAVEMENT SHALL BE INSTALLED IN EXISTING PAVEMENT AREAS. TEMPORARY PAVEMENT SHALL BE 100 mm OF HOT MIX ASPHALT BINDER COURSE AND 150 mm SUBBASE COURSE, OPTIONAL TYPE. THE COST FOR THE TEMPORARY PAVEMENT SHALL BE INCLUDED IN THE PRICE BID FOR THE PROPOSED STORM SEWER PIPE.

PIPE TRENCH DETAIL

NOT TO SCALE

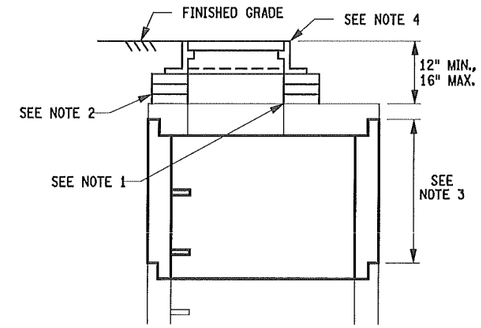


NOTES

1. CENTER PIPE IN TRENCH HORIZONTALLY.

UNDERDRAIN DETAIL

NOT TO SCALE



ALTER SANITARY SEWER MANHOLE
(ADJUST TOP SLAB)

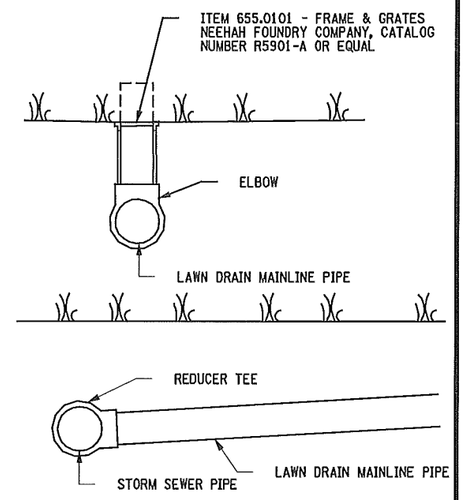
STRUCTURE ALTERATION NOTES:

1. THE COST OF CONCRETE ADJUSTMENT RINGS, CONCRETE COLLARS, FRAME AND COVER, PRECAST CONCRETE PAVERS PRECAST RISERS, AND/OR TOP SLAB IS INCLUDED IN THE PRICE BID FOR THIS ITEM.
2. COAT ALL EXPOSED SURFACES OF NEW ADJUSTMENT MATERIAL WITH TWO COATS OF DAMP-PROOFING.
3. REMOVE EXISTING FRAME, COVER, ADJUSTMENT MATERIAL, AND TOP SLAB OR TOP RISER SECTION. PROVIDE A NEW RISER SECTION AS NECESSARY. RESET EXISTING SLAB OR TOP RISER SECTION, PROVIDE NEW ADJUSTMENT RINGS, AND RESET EXISTING FRAME AND COVER TO THE REQUIRED ELEVATION.
4. RESET OR REPLACE THE EXISTING FRAME AND COVER. COVER TO BE WATERPROOF.
5. SAFE OPERATION SHEET PILING, ITEM 552.16 SHALL BE USED IF EXCAVATION DEPTH IS GREATER THAN 5 FT.

DETAIL - ALTER SANITARY SEWER MANHOLE

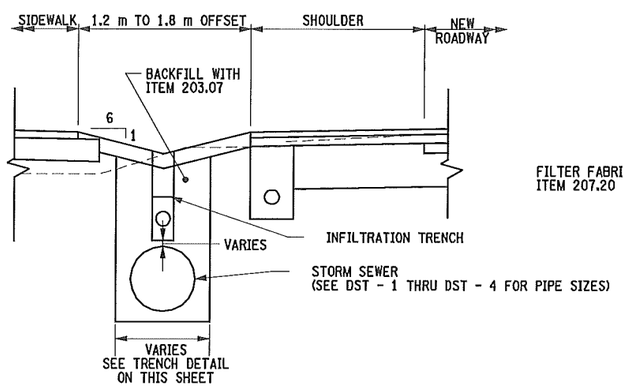
N.T.S.

ITEM 604.070301 - ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES



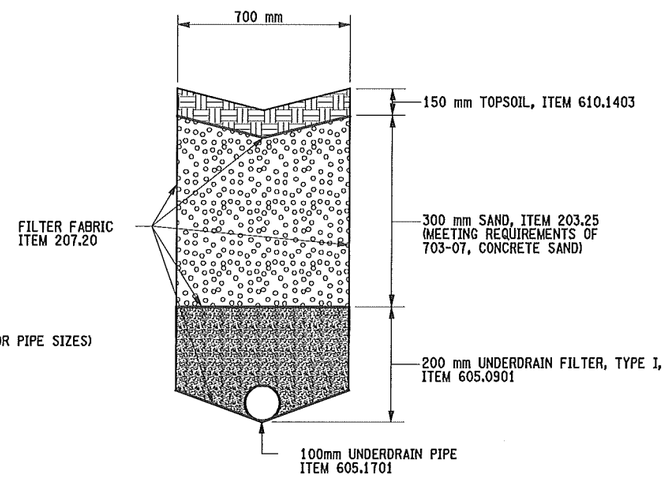
FIELD INLET DETAIL

NOT TO SCALE



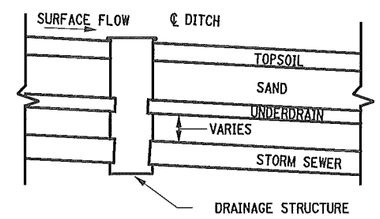
TYPICAL TRENCH DETAIL FOR STORM SEWER

NOT TO SCALE



INFILTRATION TRENCH DETAIL

NOT TO SCALE



INFILTRATION TRENCH PROFILE

NOT TO SCALE

INFILTRATION TRENCH TABLE

STATION	TO	STATION	SIDE	LENGTH	SAND ITEM 203.25 (m^3)	UNDERDRAIN FILTER ITEM 605.0901 (m^3)	UNDERDRAIN ITEM 605.1701 (m)	FILTER FABRIC ITEM 207.20 (m^2)
HR 1+680.000	TO	HR 1+752.105	LT	72.11	15.14	10.10	72.11	252.4
HR 1+775.938	TO	HR 1+848.000	LT	72.06	15.13	10.09	72.06	252.2
HR 1+897.995	TO	HR 1+959.000	LT	61.01	12.81	8.54	61.01	213.5
HR 1+981.000	TO	HR 2+055.000	LT	74.00	15.54	10.36	74.00	259.0
HR 2+234.205	TO	HR 2+368.150	LT	133.95	28.13	18.75	133.95	468.3
HR 2+386.000	TO	HR 2+494.000	LT	108.00	22.68	15.12	108.00	378.0
HR 2+520.000	TO	HR 2+730.000	LT	210.00	44.10	29.40	210.00	735.0
HR 2+772.500	TO	HR 3+050.000	LT	277.50	58.28	38.85	277.50	971.3
HR 3+300.000	TO	HR 3+430.000	LT	130.00	27.30	18.20	130.00	455.0
				TOTALS	240 m^3	160 m^3	1139 m	3984.7 m^2

PREPARED BY: ON:	ALTERED BY: ON:

STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-28-2013

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

DRAINAGE DETAILS

FISHER ASSOCIATES

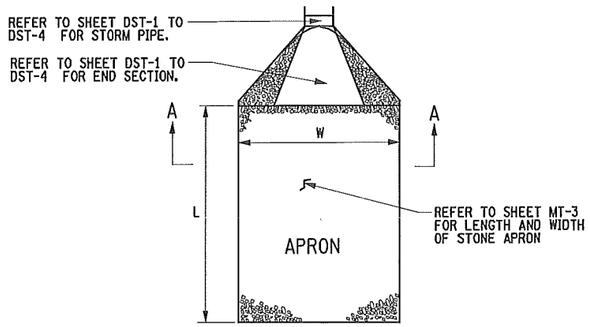
DRAWING NO. MD-1
SHEET NO. 35 OF 130

DOCUMENT NAME: 375325A_DD.DGN

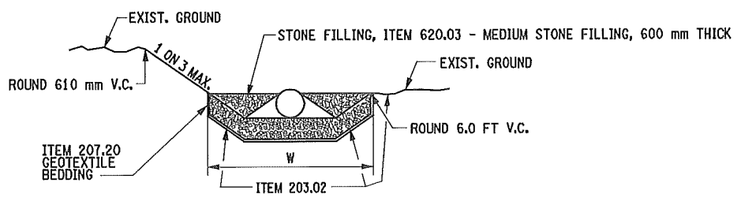
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON · JOB MANAGER M. BUTCHER · DESIGNED BY M. BUTCHER · CHECKED BY R. BENNETT · ESTIMATED BY · DRAFTED BY T. DAVIS · CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



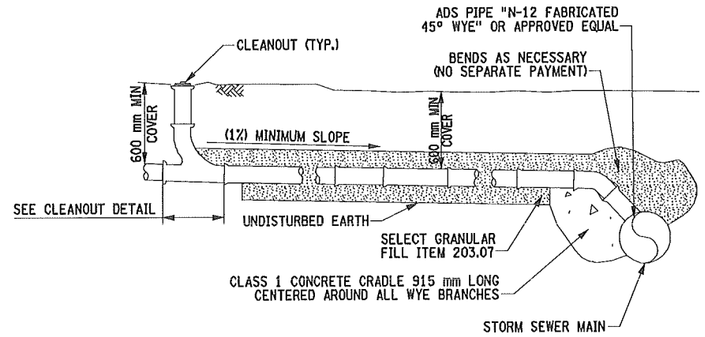
PLAN



SECTION A-A

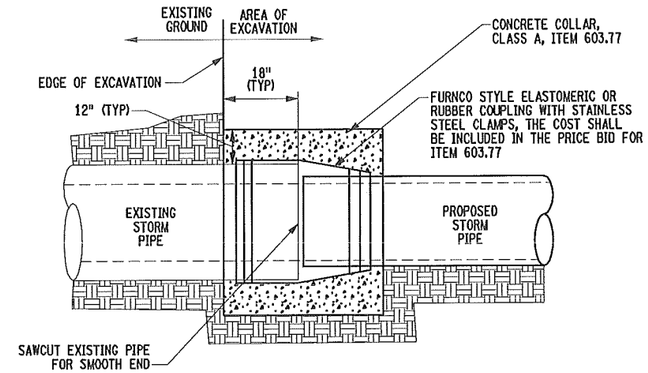
TYPICAL STONE APRON DETAIL

NOT TO SCALE



TYPICAL STORM LATERAL DETAIL

NOT TO SCALE

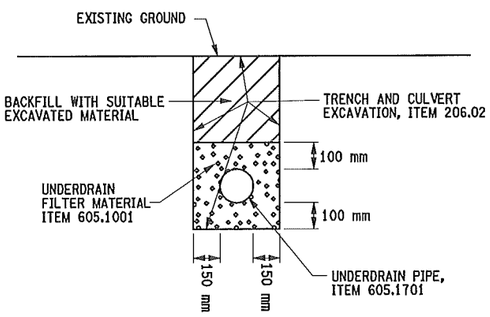


NOTES:

1. COST OF SAWCUTTING PIPE & FURNISHING/INSTALLATION OF COUPLING & PIPE STUB CONNECTION TO BE INCLUDED IN COST FOR CONCRETE COLLAR, ITEM 603.77.

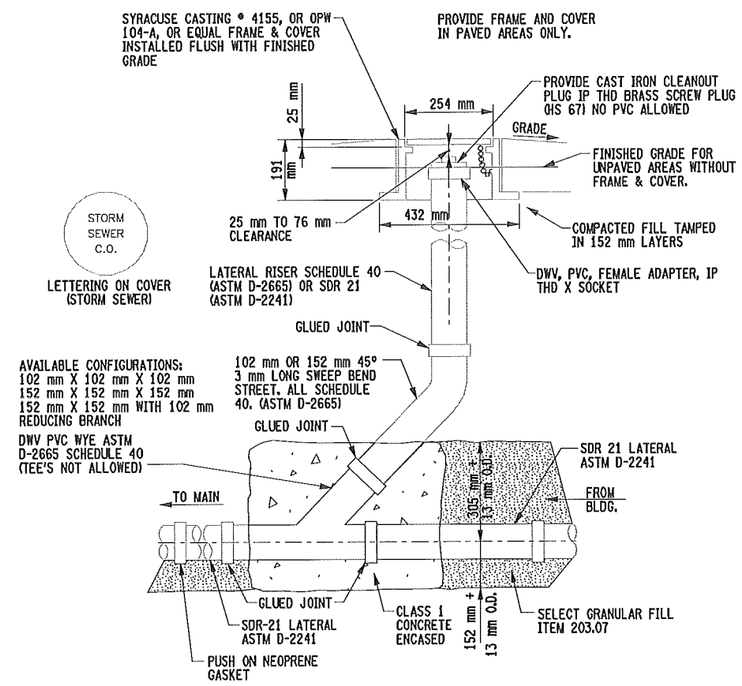
CONNECT PROPOSED STORM PIPE TO EXISTING STORM PIPE

NOT TO SCALE



UNDERDRAIN DETAIL

NOT TO SCALE



CLEANOUT DETAIL

NOT TO SCALE

NOTE:
ALL SOLVENT WELD JOINTS SHALL BE MADE AS FOLLOWS:

A. CLEAN DRY HUBS & SPIGOTS

B. PRIMER APPLIED TO PARTS BEING CONNECTED.

C. PVC SOLVENT WELD CEMENT APPLIED DIRECTLY OVER PRIMER

D. PVC TYPE I IS COMPATIBLE FOR SOLVENT WELDING TO SDR 21 OR ANY OTHER PVC TYPE I PIPE MADE TO "STEEL PIPE" OUTSIDE DIMENSIONS.

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

DRAINAGE DETAILS

FISHERASSOCIATES

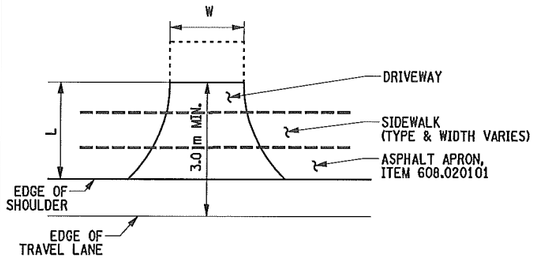
DRAWING NO. MD-2
SHEET NO. 36 OF 130

DOCUMENT NAME: 375325B_DD.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

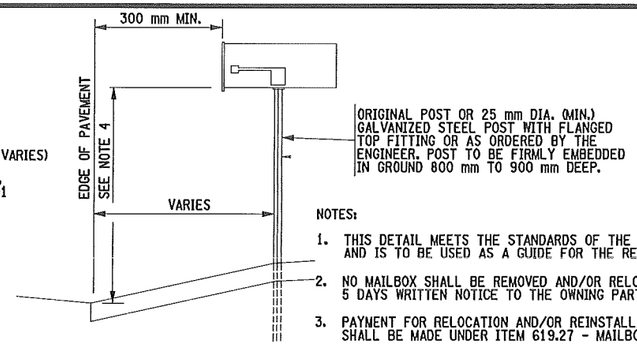


TYPICAL RESIDENTIAL DRIVEWAY TREATMENT

NOT TO SCALE

NOTES:

1. SEE THE DRIVEWAY TABLE ON DRAWING NO. MT-2 FOR WIDTH (W), AND DRIVEWAY TYPE.
2. STONE DRIVEWAYS SHALL BE RECONSTRUCTED WITH ITEM 623.12, CRUSHED STONE, SIZE 1A.
3. THE STATION OF THE PROPOSED DRIVEWAY IS AT THE PROPOSED CENTERLINE.
4. STONE DRIVEWAYS SHALL HAVE AN ASPHALT APRON. LENGTH OF THE ASPHALT APRON SHALL BE 1.2 m.

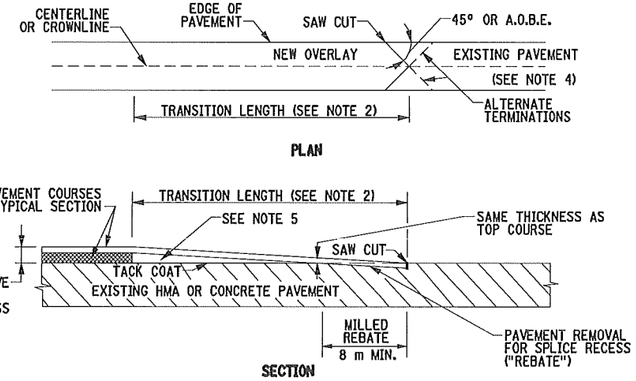


NOTES:

1. THIS DETAIL MEETS THE STANDARDS OF THE U.S. POSTAL SERVICE AND IS TO BE USED AS A GUIDE FOR THE RELOCATION OF MAILBOXES
2. NO MAILBOX SHALL BE REMOVED AND/OR RELOCATED WITHOUT 5 DAYS WRITTEN NOTICE TO THE OWNING PARTY
3. PAYMENT FOR RELOCATION AND/OR REINSTALLATION OF MAILBOXES SHALL BE MADE UNDER ITEM 619.27 - MAILBOXES.
4. BOTTOM OF MAILBOX SHALL BE INSTALLED AT A VERTICAL HEIGHT BETWEEN 1.04 m AND 1.14 m FROM THE ROAD SURFACE.

MAILBOX DETAIL
ITEM 619.27

NOT TO SCALE



HOT MIX ASPHALT OVERLAY SPLICE
(PAVEMENT TERMINATION DETAIL)

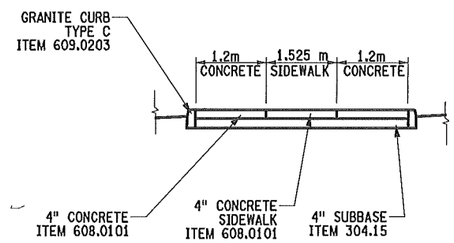
NOT TO SCALE

NOTES:

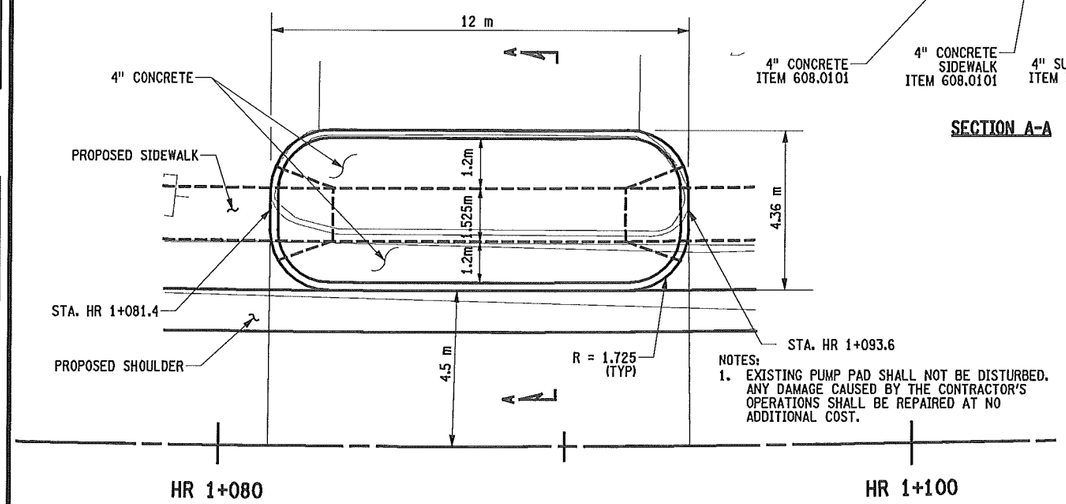
1. HOT MIX ASPHALT (HMA) OVERLAY SPLICES SHALL BE USED AT; ENDS OF HMA OVERLAY HIGHWAY SECTIONS, MAJOR INTERSECTIONS, OTHER LOCATIONS INDICATED IN THE PLANS, AND WHERE ORDERED BY THE ENGINEER.
2. THE TRANSITION LENGTH IN METERS SHALL NOT BE LESS THAN THE VALUE OBTAINED BY MULTIPLYING THE EFFECTIVE OVERLAY THICKNESS IN MILLIMETERS (DIFFERENCE BETWEEN THE EXISTING AND THE OVERLAID ELEVATIONS) BY THE K VALUE FROM THE TABLE FOR THE POSTED SPEED OF THE HIGHWAY OR AS ORDERED BY THE ENGINEER. THE MINIMUM TRANSITION LENGTH IS TEN METERS.

   EXAMPLE: IF THE POSTED SPEED IS 55 MPH,
   EFFECTIVE OVERLAY THICKNESS = 50 mm,
   THEN THE MINIMUM TRANSITION LENGTH
   = 50 mm X 0.36 m/mm= 18 m.
3. ALL SURFACES OF THE HMA OVERLAY SPLICE TRANSITION AREA SHALL BE CLEANED AND TACK-COATED PRIOR TO HNA PLACEMENT. THE COST OF SAWCUTTING, MILLING REBATES, TACK COAT AND CLEANING PAVEMENT IN THE HMA OVERLAY SPLICE TRANSITION AREA SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE HMA CONCRETE ITEMS.
4. SAW CUTS SHALL BE MADE SO THAT SURFACE RUNOFF IS DIRECTED TO THE EDGE OF PAVEMENT.
5. IN THE TRANSITION AREA, PAVEMENT COURSES OTHER THAN THE TOP COURSE SHALL BE FEATHERED OUT USING TOP COURSE OR OTHER APPROPRIATE MATERIAL. PAYMENT SHALL BE MADE UNDER THE APPROPRIATE ITEM.

K VALUE TABLE m/mm								
POSTED SPEED MPH	30	35	40	45	50	55	60	65
K	0.20	0.23	0.26	0.29	0.33	0.36	0.39	0.42



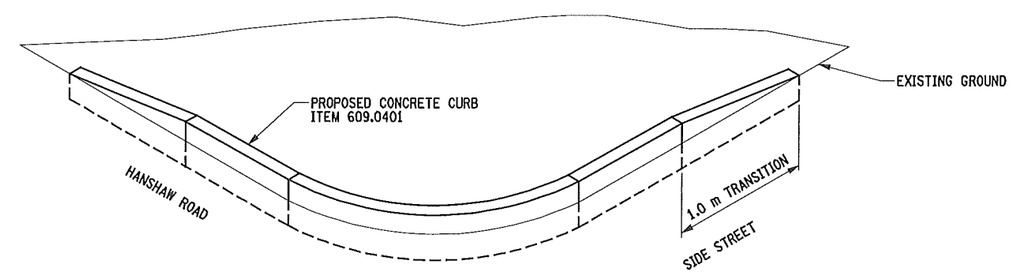
SECTION A-A



NOTES:

1. EXISTING PUMP PAD SHALL NOT BE DISTURBED. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL COST.

CONCRETE ISLAND DETAIL

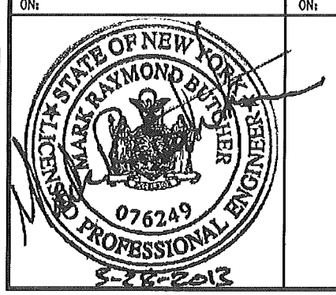


PROPOSED CURB TRANSITION TO EXISTING GROUND

NOT TO SCALE

BLACKSTONE AVE. NW CORNER
BLACKSTONE AVE. NE CORNER
KAY ST. NW CORNER
KAY ST. NE CORNER
WARREN RD. SW CORNER
WARREN RD. SE CORNER

PREPARED BY: ON:	ALTERED BY: ON:



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ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

MISCELLANEOUS DETAILS

FISHERASSOCIATES

DRAWING NO. MD-3
SHEET NO. 37 OF 130

DOCUMENT NAME: 375325A_MD.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN9SPEC
DATE/TIME = 5/14/2013
USER = MARKB

TABLE 1

REQUIRED BEARING AREAS -@ (m²)
FOR BEARING/THRUST BLOCKS*

PIPE SIZE (mm)	TEE	90° BEND	45° BEND	22-1/2° BEND	11 1/4° BEND
100	.19	.26	.14	.07	.003
150	.39	.55	.30	.15	.07
200	.67	.94	.51	.26	.13
250	1.01	1.43	.77	.39	.20
300	1.43	2.03	1.10	.56	.28
350	1.91	2.70	1.47	.74	.37
400	2.49	3.52	1.90	.97	.48
450	3.12	4.41	2.39	1.22	.61
500	3.83	5.41	2.93	1.50	.75
550	5.46	7.72	4.18	2.13	1.07
600	8.41	11.89	6.43	3.28	1.64
650	12.04	17.03	9.21	4.69	2.36

*FACTOR OF SAFETY=1.5
SOIL BEARING OF 21,000 KP
1,551 KP DESIGN PRESSURE

THRUST REACTIONS-R(kg)
PER 690 KP INTERNAL PRESSURE

NOM PIPE DIA. mm	DEAD END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
100	12,480	17,644	9,549	4,868	2,448
150	25,880	36,460	18,491	10,059	5,054
200	44,353	62,722	33,943	17,306	8,694
250	66,721	94,355	51,063	26,034	13,079
300	94,355	133,434	72,216	36,818	18,499
350	126,760	179,270	97,023	49,462	24,849
400	163,950	231,857	125,477	63,970	32,136
450	205,912	291,200	157,600	80,344	40,369
500	252,651	357,300	193,370	98,581	49,525
550	360,451	509,757	275,880	140,639	70,664
600	554,510	784,196	424,400	216,357	108,703
650	794,338	1,123,370	607,959	309,933	155,7422

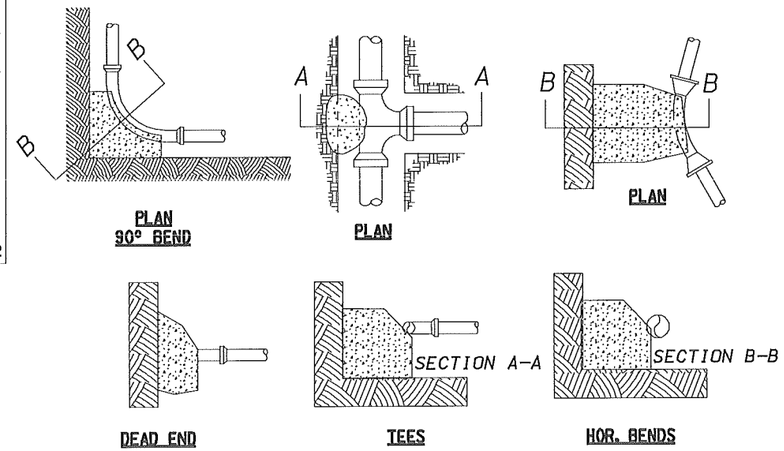
TABLE 2

THRUST BLOCK AREA
MODIFICATION FACTORS
FOR VARIOUS SOIL TYPES

SOIL TYPE	FACTOR
MUCK	AOBE
SOFT CLAY	4.00
SAND	2.00
SAND AND GRAVEL	1.33
GRAVEL-SILT-CLAY MIX	1.00
SHALE	0.40

NOTES:
ALL THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED EARTH. FORM TO AVOID CONCRETE CONTACT WITH BOLT HEADS OR NUTS.

NOTE:
ALL MJ FITTINGS MUST REQUIRE RETAINER GLANDS AND THRUST BLOCKS TO MEET S.C.L.I.W.C. SPECS FOR TWO FORMS OF RESTRAINT

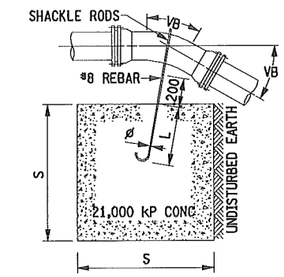


THRUST BLOCK DETAIL
SEE TABLES 1 AND 2
(NOT TO SCALE)

TYPE A BLOCKING
FOR 11 1/4 - 22 1/2 VERT BENDS

PIPE SIZE NOM DIA (mm)	VERTICAL BEND DEGREES	VB	NO. OF m³ OF CONC BLOCKING	S SIDE OF CUBE (m)	ø DIA OF SHACKLE RODS(2) * (mm)	L DEPTH OF RODS IN CONC (m)
100	11 1/4	.230	.600		19	.490
	22 1/2	.450	.760			
150	11 1/4	.450	.760		19	.490
	22 1/2	.900	.970			
200	11 1/4	.800	.900		19	.490
	22 1/2	1.6	1.15			
250	11 1/4	1.2	1.05		19	.490
	22 1/2	2.4	1.35			
300	11 1/4	1.7	1.20		19	.490
	22 1/2	3.3	1.50		22	.670
350	11 1/4	2.3	1.30		22	.670
	22 1/2	4.5	1.65			
400	11 1/4	3.0	1.40		22	.670
	22 1/2	5.6	1.80		29	1.10
450	11 1/4	3.7	1.55		22	.670
	22 1/2	7.3	1.95		29	1.10
500	11 1/4	4.6	1.65		22	.670
	22 1/2	9.0	2.05		32	1.40
900	11 1/4	6.5	1.85		25	.880
	22 1/2	12.7	2.35		35	1.70

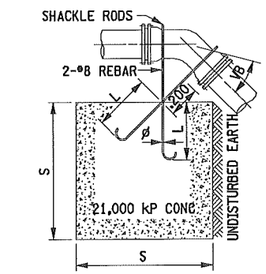
* FOR 60KSI THREADED REBAR



TYPE A BLOCKING
FOR 11 1/4° 22 1/2° VERTICAL BENDS

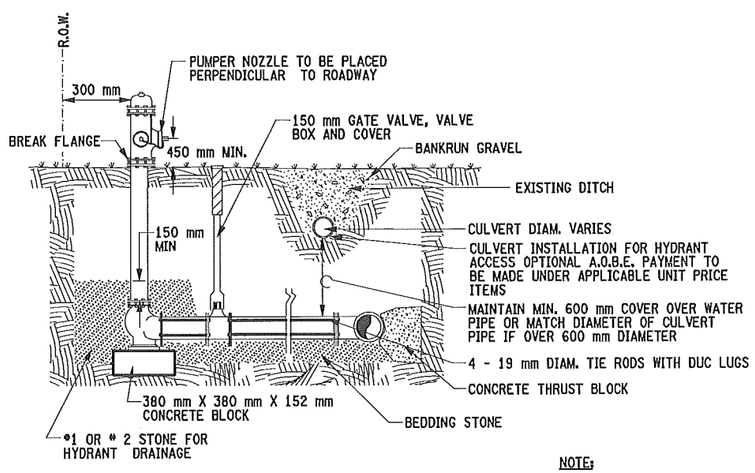
TYPE B BLOCKING
FOR 45° VERTICAL BENDS

PIPE SIZE NOM DIA (mm)	NO. OF m³ OF CONC BLOCKING	S SIDE OF CUBE (m)	ø DIA OF SHACKLE RODS(2) (mm)	L DEPTH OF RODS IN CONC (m)
100	.820	.944		
150	1.7	1.20		
200	2.9	1.40	20	.490
250	4.4	1.65		
300	6.2	1.80		
350	8.3	2.00	22	.670
400	10.7	2.20	29	1.12
450	13.5	2.40		
500	16.5	2.50	30	1.40
550	23.6	2.90	35	1.75



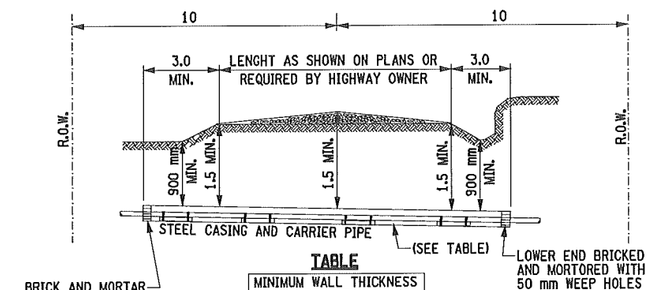
TYPE B BLOCKING
FOR 45° VERTICAL BENDS

MIN D=6ø FOR #3 THROUGH #8
MIN D=8ø FOR #9,#10, AND #11



TYPICAL HYDRANT INSTALLATION
NOT TO SCALE

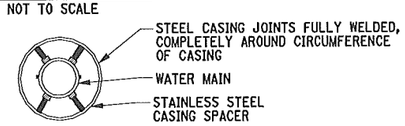
NOTE:
ALL M.J. FITTINGS AND SPECIALS SHOULD BE PROVIDED WITH WEDGE ACTION RETAINER GLANDS



TABLE

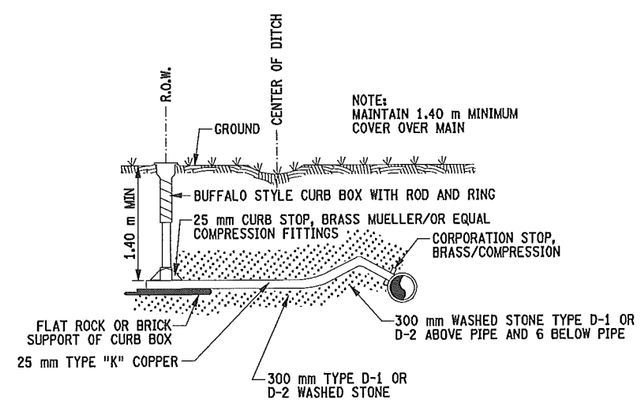
MINIMUM WALL THICKNESS COATED STEEL CASING	
NOMINAL DIAMETER mm	NOMINAL THICKNESS mm
UNDER 14	5
355-406	6
457	6
508	7
560	8
600	9

LONGITUDINAL SECTION
NOT TO SCALE



TYPICAL DETAILS OF HIGHWAY CROSSING
NOT TO SCALE

NOTE:
CONTRACTOR TO SUBMIT DETAILED PROPOSAL FOR BORING AND RECEIVING PIT INCLUDING LOCATION, DEPTHS (ELEVATIONS, GRADES ECT.)



SERVICE CONNECTION
NOT TO SCALE

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK MARK RAYMOND BUTCHER 076249 LICENSED PROFESSIONAL ENGINEER 5-28-2013	

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25
PS&E DATE
MAY 2013

BRIDGES | CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

MISCELLANEOUS DETAILS

FISHER ASSOCIATES

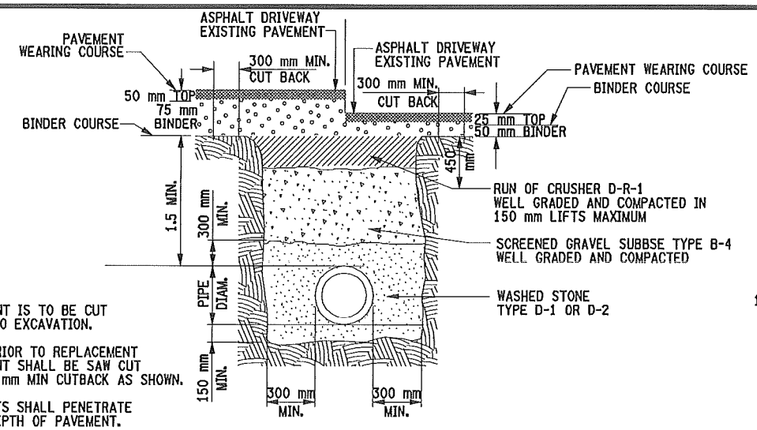
DRAWING NO. MD-4
SHEET NO. 38OF 130

DOCUMENT NAME: 375325B_MD.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON | JOB MANAGER M. BUTCHER | DESIGNED BY M. BUTCHER | CHECKED BY R. BENNETT | ESTIMATED BY | DRAFTED BY T. DAVIS | CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



NOTE:

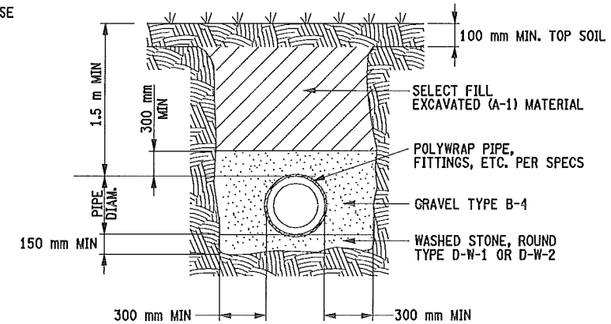
PAVEMENT IS TO BE CUT PRIOR TO EXCAVATION.

JUST PRIOR TO REPLACEMENT PAVEMENT SHALL BE SAW CUT TO 300 mm MIN CUTBACK AS SHOWN.

ALL CUTS SHALL PENETRATE FULL DEPTH OF PAVEMENT.

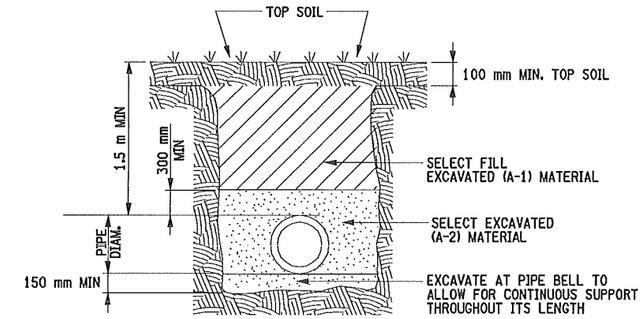
WATER TRENCH IN PAVED ROADWAY

(NOT TO SCALE)



TRENCH SECTION
WATER MAIN W/ POLYWRAP

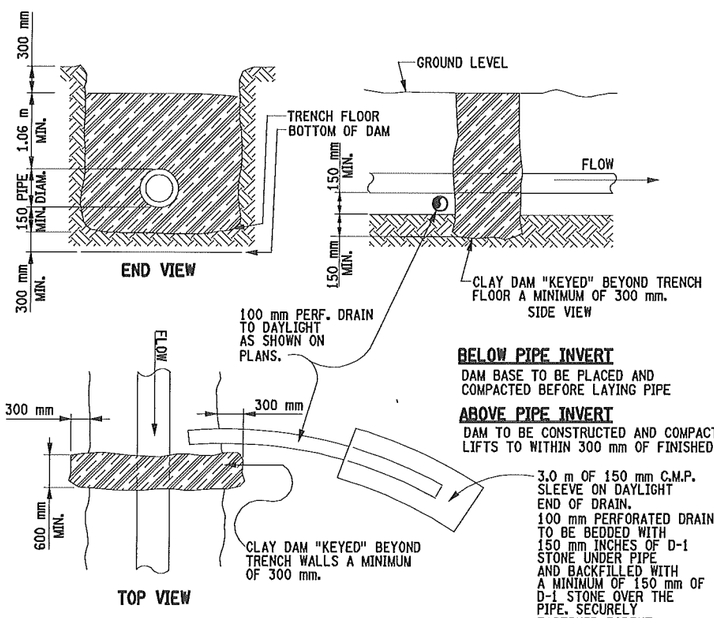
NOT TO SCALE



NOTE:
SELECT EXCAVATED MATERIAL FREE FROM ORGANIC MATERIAL AND TRASH. NO ROCKS OR STONES GREATER THAN 50 mm.

TYPICAL TRENCH SECTION
WATER MAIN

NOT TO SCALE



BELOW PIPE INVERT

DAM BASE TO BE PLACED AND COMPACTED BEFORE LAYING PIPE

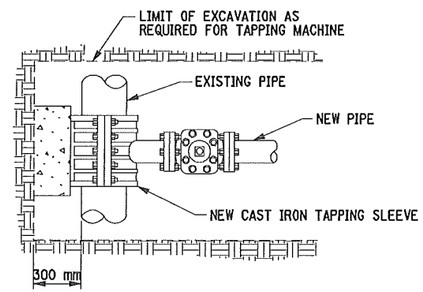
ABOVE PIPE INVERT

DAM TO BE CONSTRUCTED AND COMPACTED IN 300 mm LIFTS TO WITHIN 300 mm OF FINISHED GRADE.

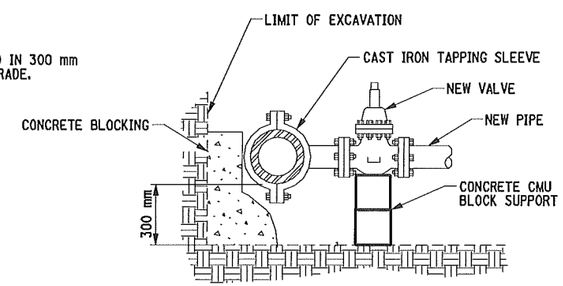
3.0 m OF 150 mm C.M.P. SLEEVE ON DAYLIGHT END OF DRAIN.
100 mm PERFORATED DRAIN TO BE BEDDED WITH 150 mm INCHES OF D-1 STONE UNDER PIPE AND BACKFILLED WITH A MINIMUM OF 150 mm OF D-1 STONE OVER THE PIPE. SECURELY FASTENED RODENT GUARD ON DAYLIGHT END OF PIPE.

TRENCH LINETRENCHING, CLAY DAM & RELIEF DRAIN

NOT TO SCALE



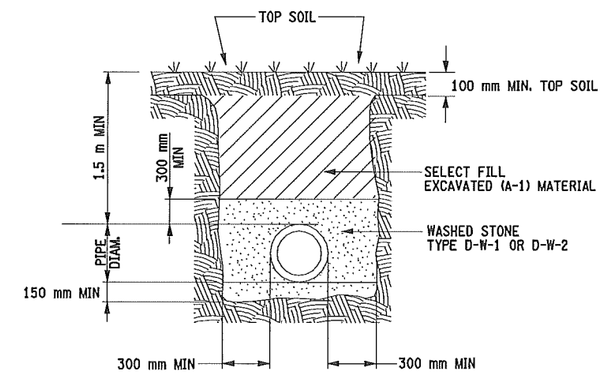
PLAN VIEW



SECTIONAL VIEW

TAPPING SLEEVE AND VALVE INSTALLATION DETAIL

NOT TO SCALE



TRENCH SECTION
WATER MAIN IN ROCK

NOT TO SCALE

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

MISCELLANEOUS DETAILS

FISHERASSOCIATES

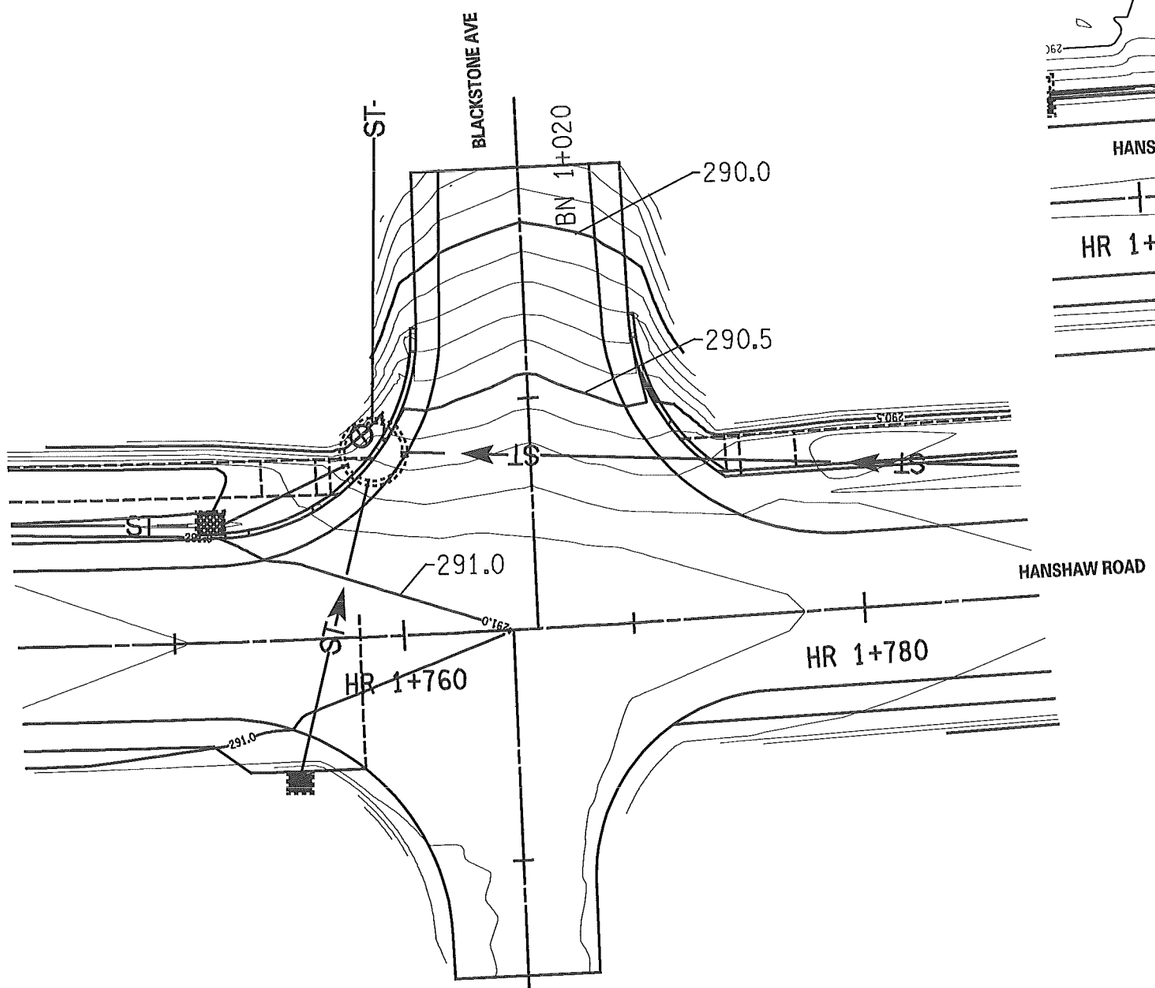
DRAWING NO. MD-5
SHEET NO. 39 OF 130

DOCUMENT NAME: 375325o_md.dgn

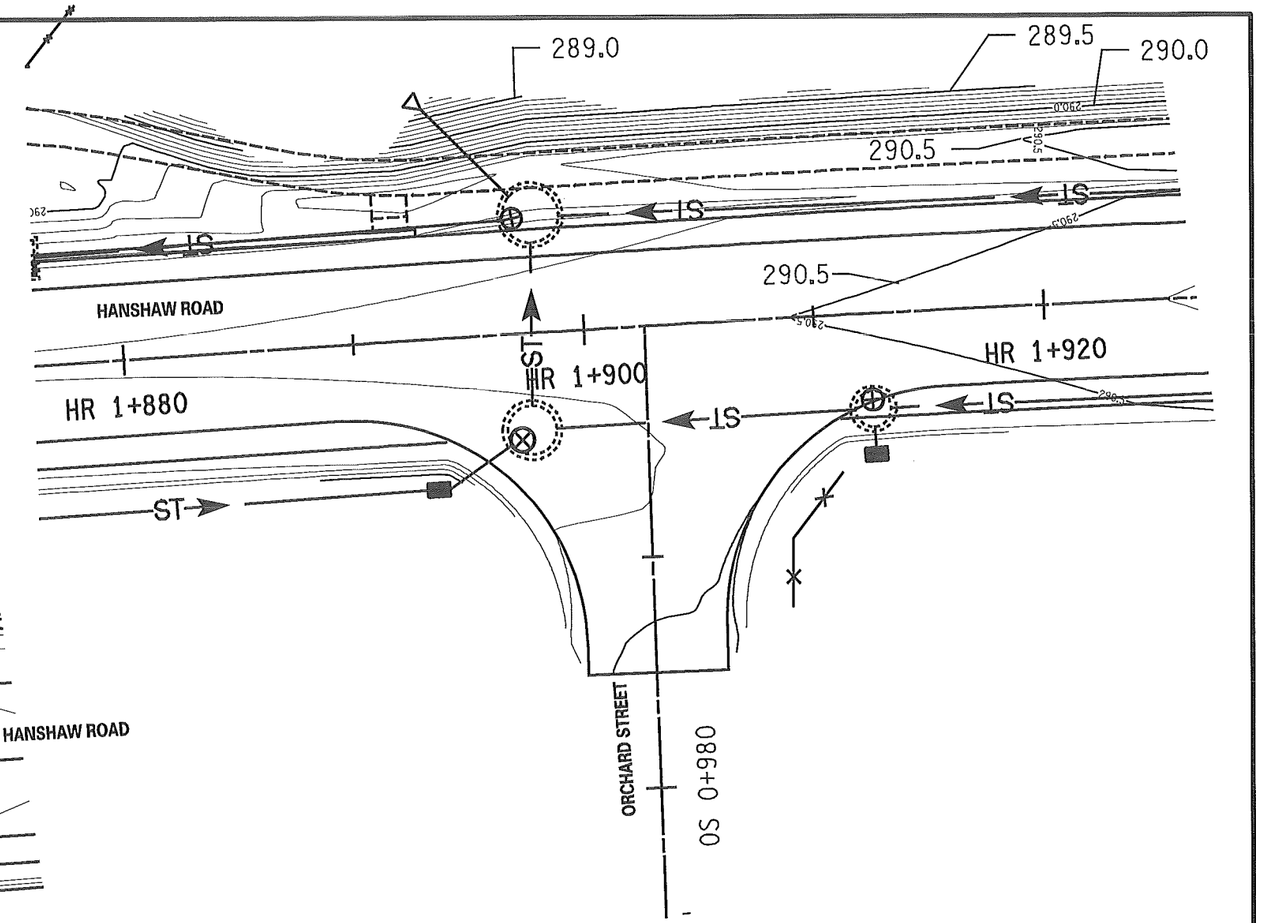
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



BLACKSTONE/HANSHAW INTERSECTION CONTOURS



ORCHARD/HANSHAW INTERSECTION CONTOURS

DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER
ESTIMATED BY
DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT
JOB MANAGER M. BUTCHER
DESIGN SUPERVISOR D. JUDSON

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

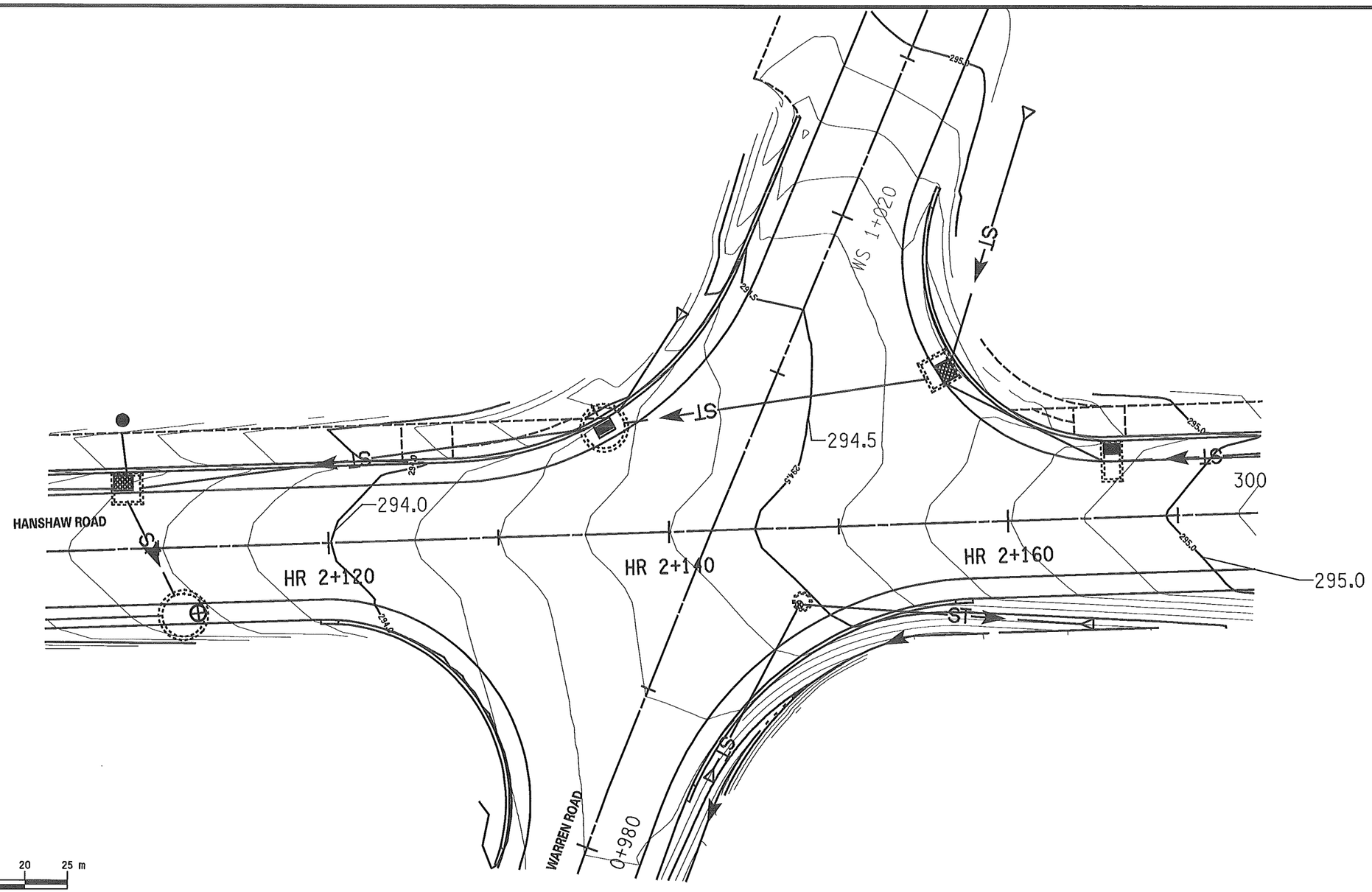
ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

INTERSECTION CONTOUR PLANS

FISHER ASSOCIATES

DRAWING NO. ICP-1
SHEET NO. 40 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3



HANSHAW/WARREN INTERSECTION CONTOURS

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5-28-2013

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COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

INTERSECTION CONTOUR PLANS

FISHER ASSOCIATES

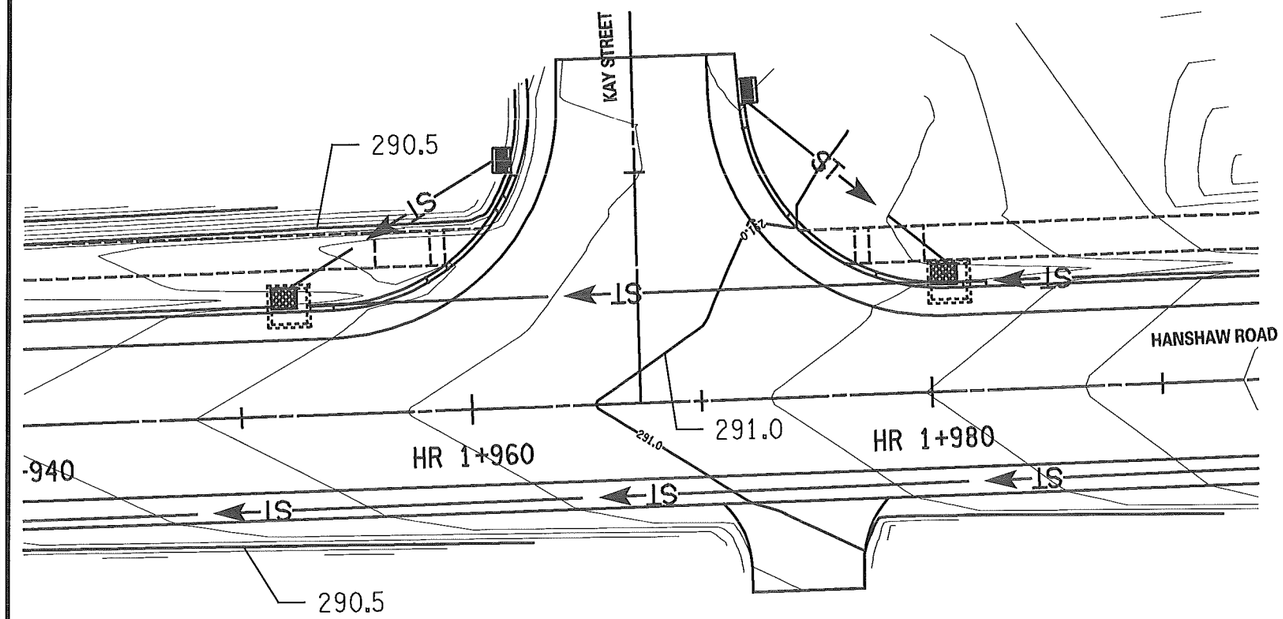
DRAWING NO. ICP-2
SHEET NO. 41 OF 130

DOCUMENT NAME: @FILENAME@

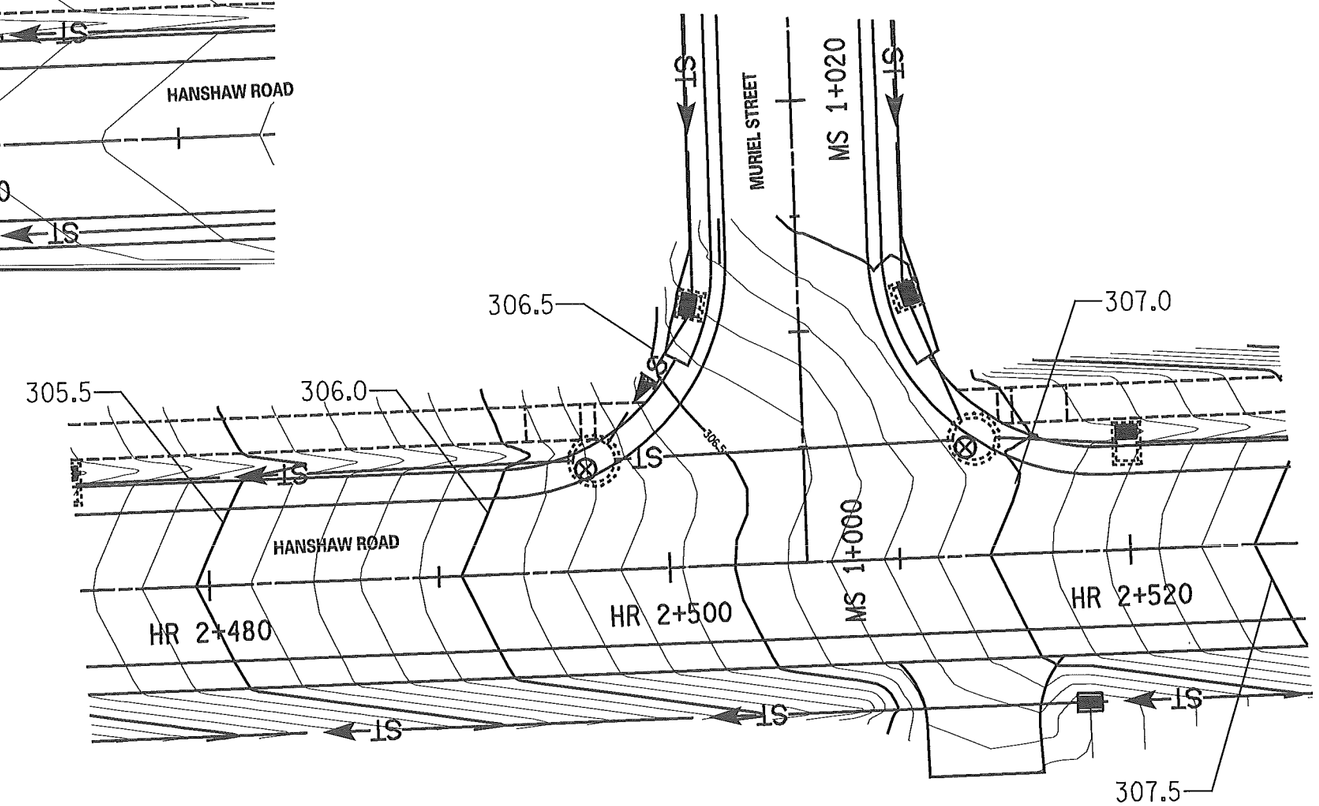
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



HANSHAW/KAY INTERSECTION CONTOURS



HANSHAW/MURIEL INTERSECTION CONTOURS

5 0 5 10 15 20 25 m
SCALE

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

INTERSECTION CONTOUR PLANS

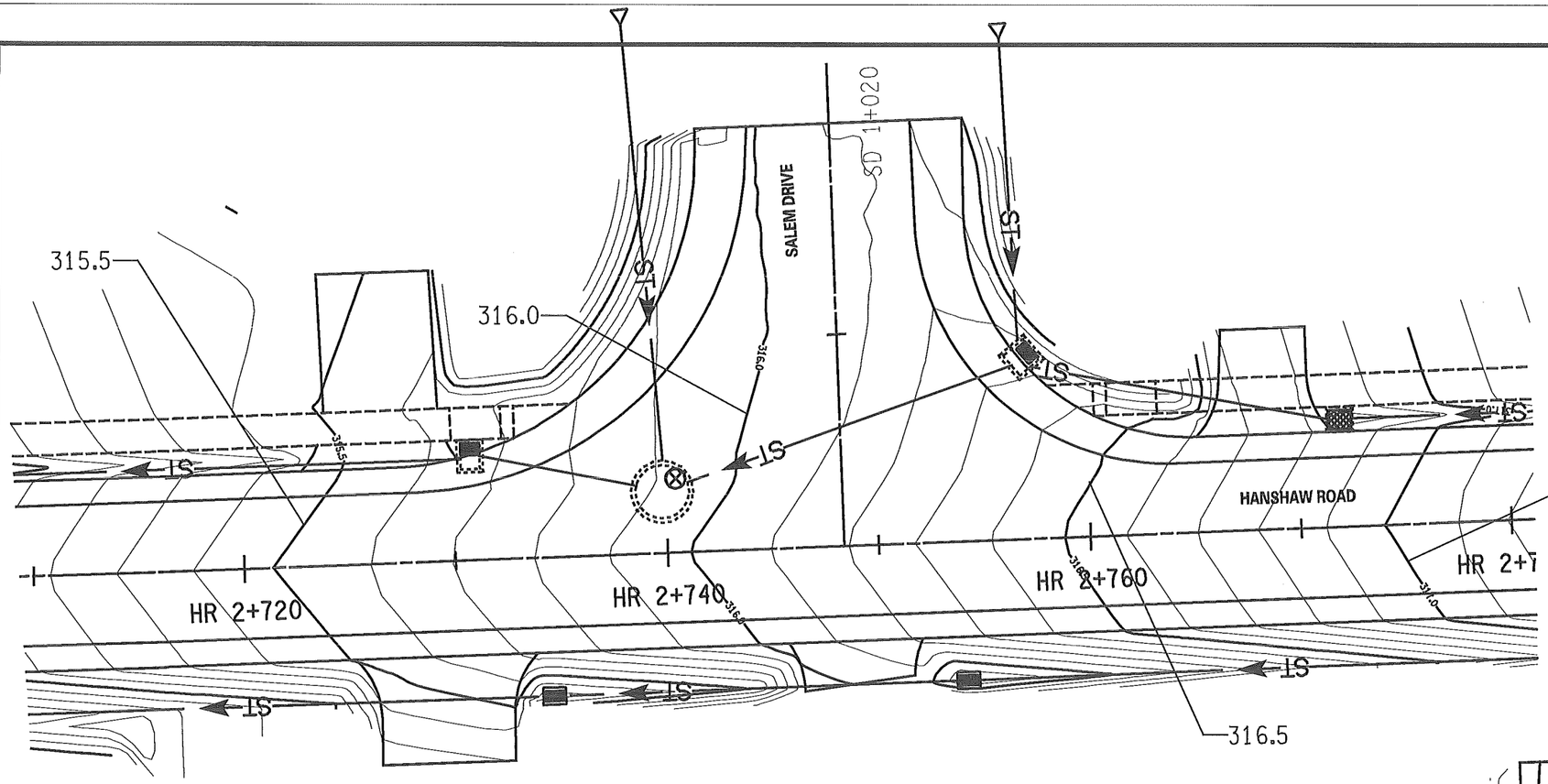
FISHER ASSOCIATES

DRAWING NO. ICP-3
SHEET NO. 42 OF 130

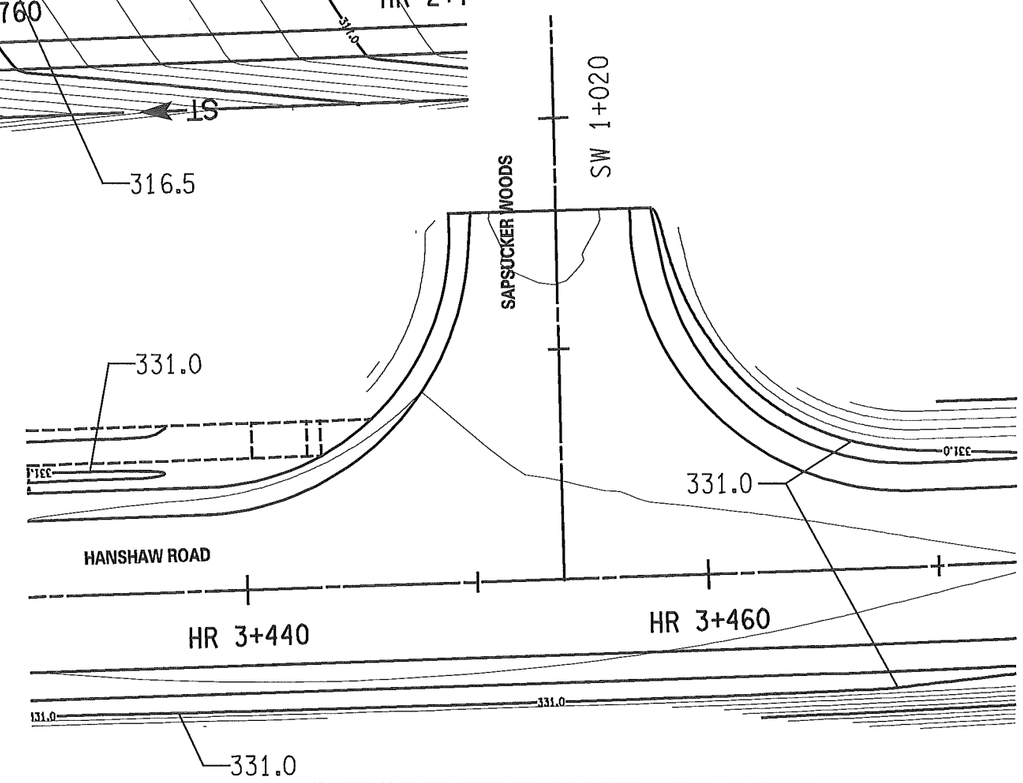
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



HANSHAW/SALEM INTERSECTION CONTOURS



HANSHAW/SAPSUCKER WOODS INTERSECTION CONTOURS

5 0 5 10 15 20 25 m

SCALE

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STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

INTERSECTION CONTOUR PLANS

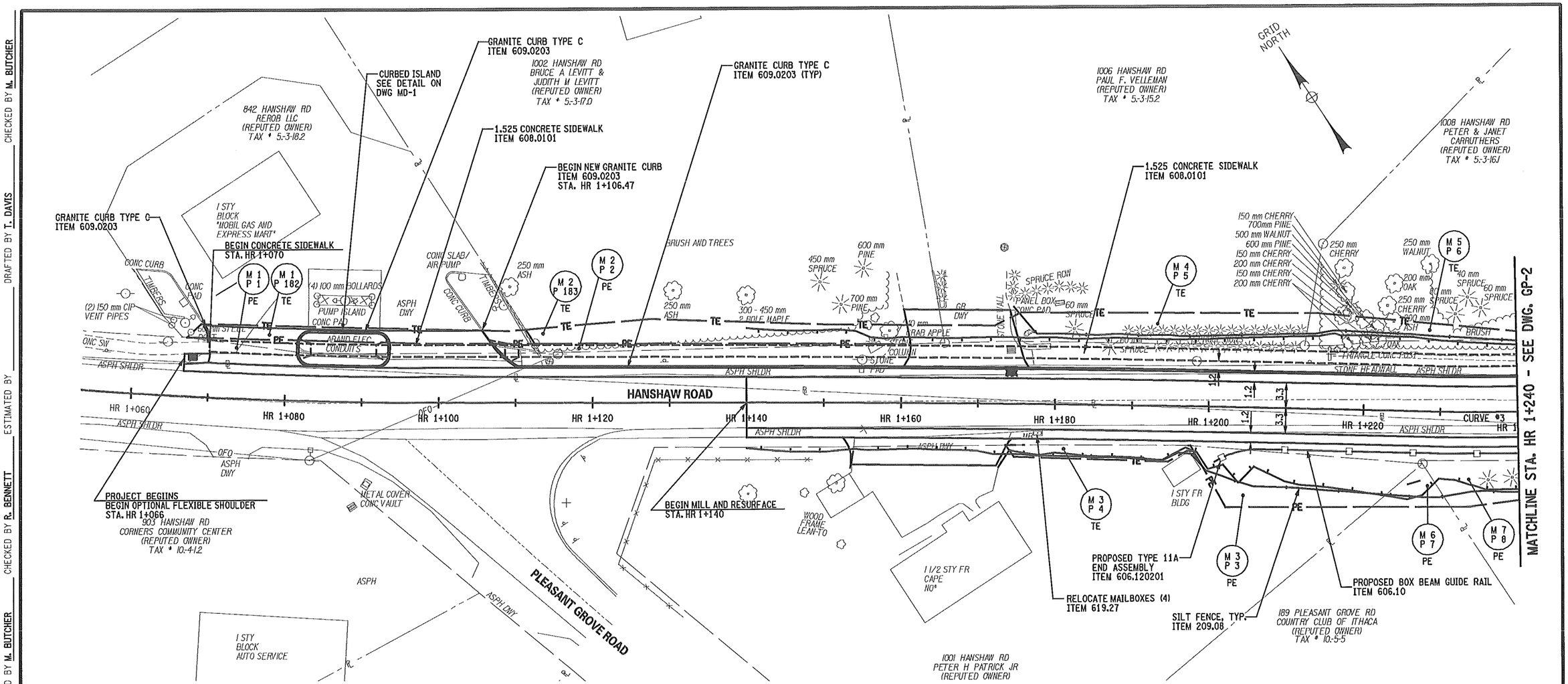
FISHER ASSOCIATES

DRAWING NO. ICP-4
SHEET NO. 43 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



0 5 10 15 20 25 m
SCALE

CURVE 1	
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P.I.	STA. HR 1+046.599 N 274185.193 E 258598.236
P.T.	STA. HR 1+098.374 N 274156.694 E 258641.746
R	626.379
L	103.788
Δ	9°29'37.07"
T	52.013

CURVE 2	
P.C.	STA. HR 1+140.781 N 274133.458 E 258677.221
P.I.	STA. HR 1+178.772 N 274112.642 E 258709.001
P.T.	STA. HR 1+216.758 N 274091.028 E 258740.244
R	3000.000
L	75.978
Δ	1°27'03.83"
T	37.991

CURVE 3	
P.C.	STA. HR 1+228.175 N 274084.532 E 258749.634
P.I.	STA. HR 1+273.855 N 274058.544 E 258787.200
P.T.	STA. HR 1+318.612 N 274046.916 E 258831.375
R	260.000
L	90.436
Δ	19°55'45.36"
T	45.680

NOTES:

1. SEE UTILITY PLANS FOR PROPOSED DRAINAGE AND UTILITY WORK.
2. SEE LANDSCAPE PLANS FOR TREE PLANTING AND REMOVAL.

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK MARK RAYMOND BUTCHER 076249 LICENSED PROFESSIONAL ENGINEER 5-28-2013	

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DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: $FILENAME$

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

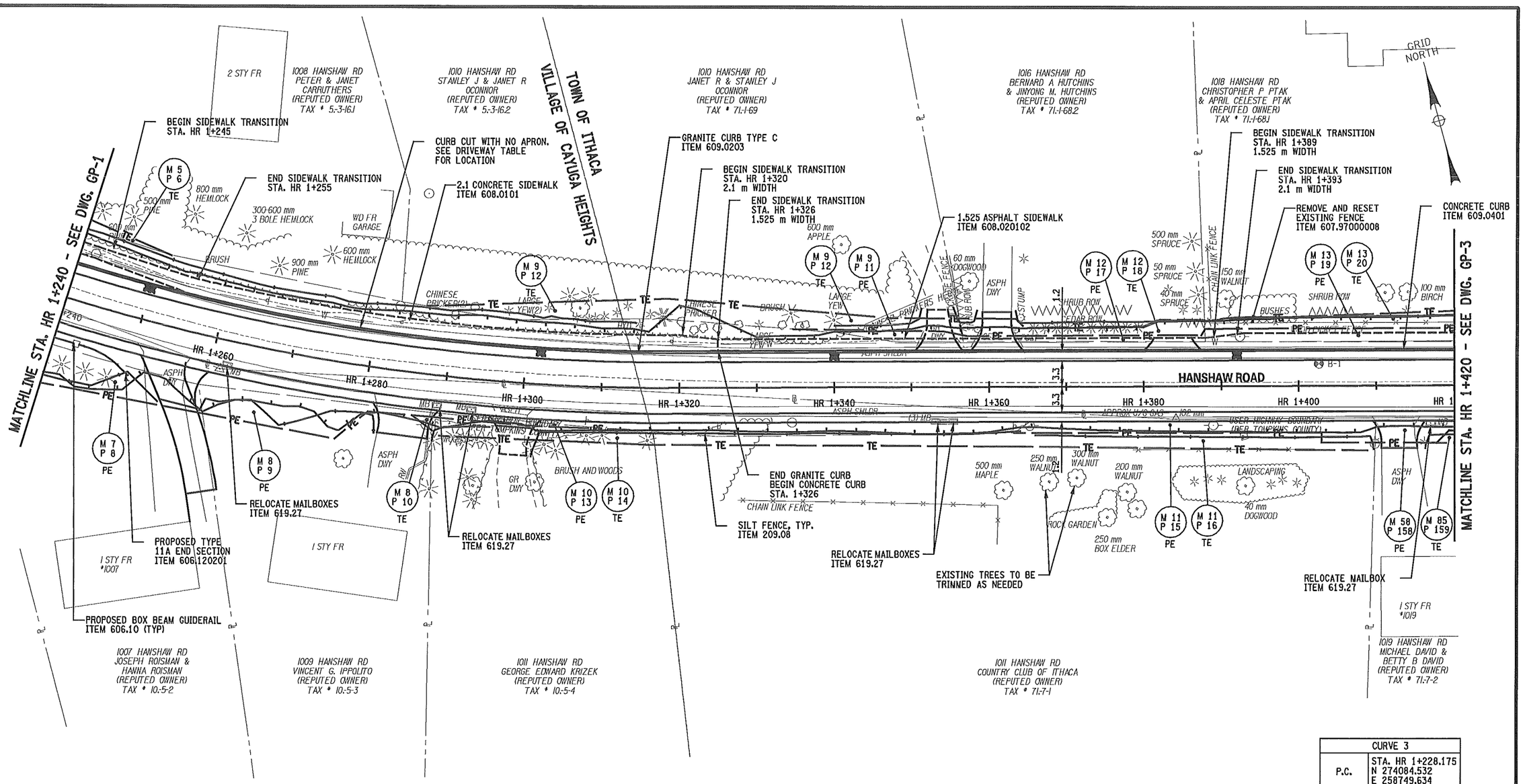
FISHER ASSOCIATES

DRAWING NO. GP-1
SHEET NO. 44 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY CHECKED BY M. BUTCHER DRAFTED BY T. DAVIS



CURVE 3	
P.C.	STA. HR 1+228.175 N 274084.532 E 258749.634
P.I.	STA. HR 1+273.855 N 274058.544 E 258787.200
P.T.	STA. HR 1+318.612 N 274046.916 E 258831.375
R	260.000
L	90.436
Δ	19°55'45.36"
T	45.680

NOTES:

1. SEE UTILITY PLANS FOR PROPOSED DRAINAGE AND UTILITY WORK.
2. SEE LANDSCAPE PLANS FOR TREE PLANTING AND REMOVAL.

0 5 10 15 20 25 m
SCALE

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

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COUNTY ROUTE 109

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ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

FISHERASSOCIATES

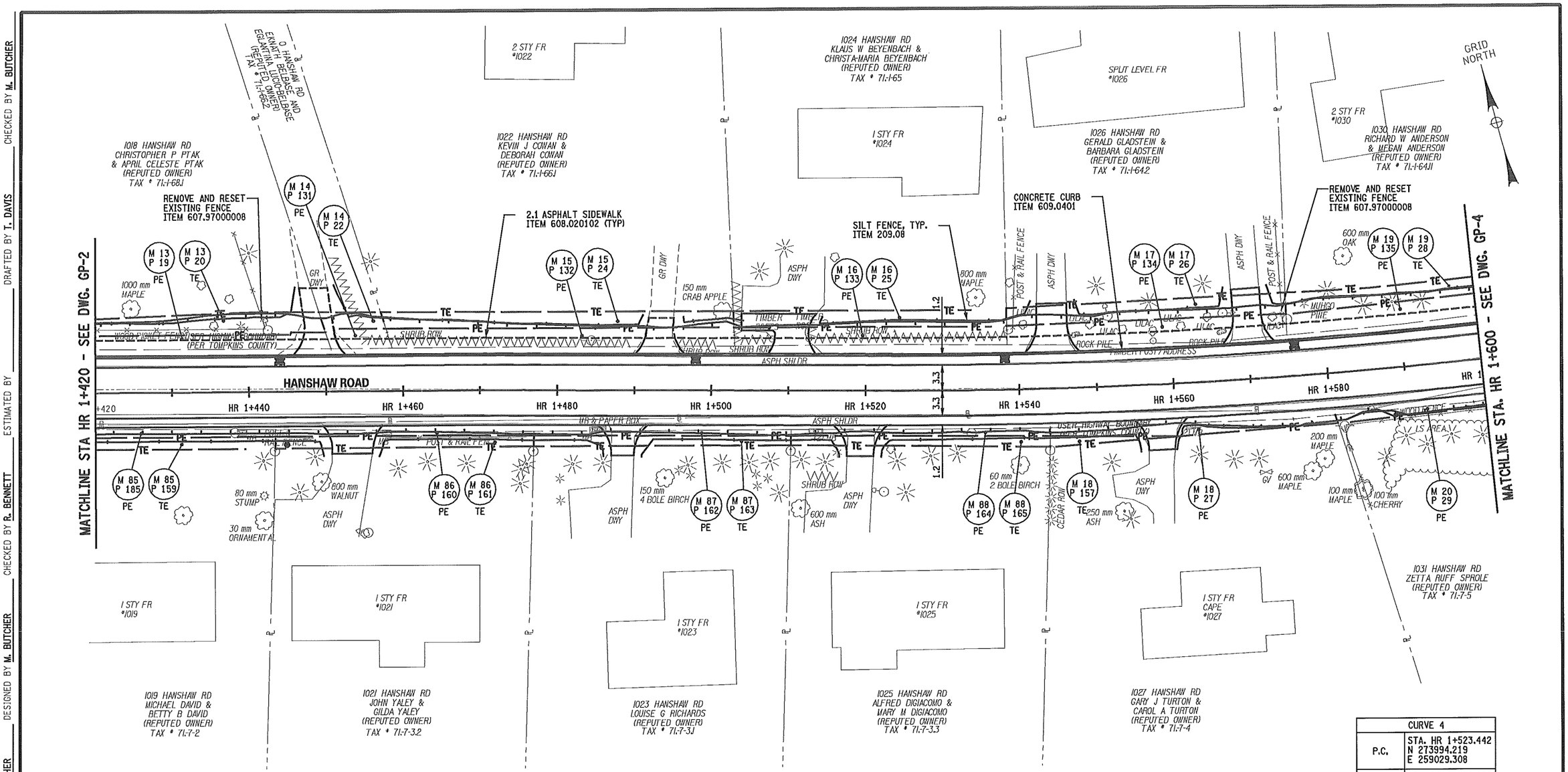
DRAWING NO. GP-2
SHEET NO. 45 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN⊕SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER



CURVE 4	
P.C.	STA. HR 1+523.442 N 273994.219 E 259029.308
P.I.	STA. HR 1+572.822 N 273981.127 E 259076.921
P.T.	STA. HR 1+622.040 N 273974.850 E 259125.901
R	700.000
L	98.598
Δ	8°04'13.18"
T	49.380

NOTES:

1. SEE UTILITY PLANS FOR PROPOSED DRAINAGE AND UTILITY WORK.
2. SEE LANDSCAPE PLANS FOR TREE PLANTING AND REMOVAL.

0 5 10 15 20 25 m
SCALE

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: ◊FILENAME◊

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

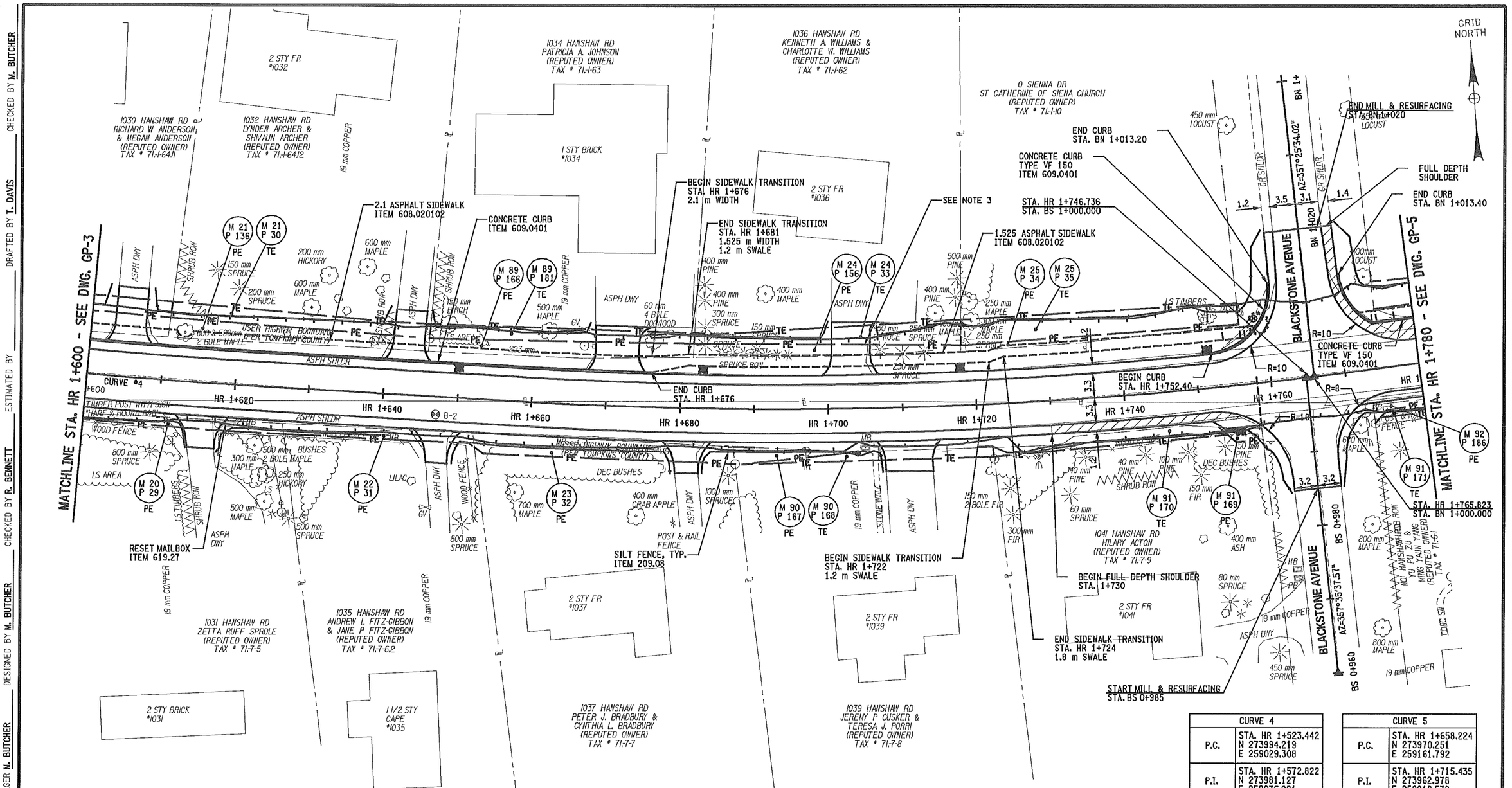
FISHER ASSOCIATES

DRAWING NO. GP-3
SHEET NO. 46 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY M. BUTCHER DRAFTED BY T. DAVIS CHECKED BY R. BENNETT ESTIMATED BY



CURVE 4	
P.C.	STA. HR 1+523.442 N 273994.219 E 259029.308
P.I.	STA. HR 1+572.822 N 273981.127 E 259076.921
P.T.	STA. HR 1+622.040 N 273974.850 E 259125.901
R	700.000
L	98.598
Δ	8°04'13.18"
T	49.380

CURVE 5	
P.C.	STA. HR 1+658.224 N 273970.251 E 259161.792
P.I.	STA. HR 1+715.435 N 273962.978 E 259218.539
P.T.	STA. HR 1+772.301 N 273966.561 E 259275.637
R	600.000
L	114.077
Δ	10°53'36.83"
T	57.211

NOTES:

1. SEE UTILITY PLANS FOR PROPOSED DRAINAGE AND UTILITY WORK.
2. SEE LANDSCAPE PLANS FOR TREE PLANTING AND REMOVAL.
3. REMOVAL ALL ROOTS WITHIN FOOTPRINT OF DRIVEWAY RECONSTRUCTION.

0 5 10 15 20 25 m
SCALE

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

FISHERASSOCIATES

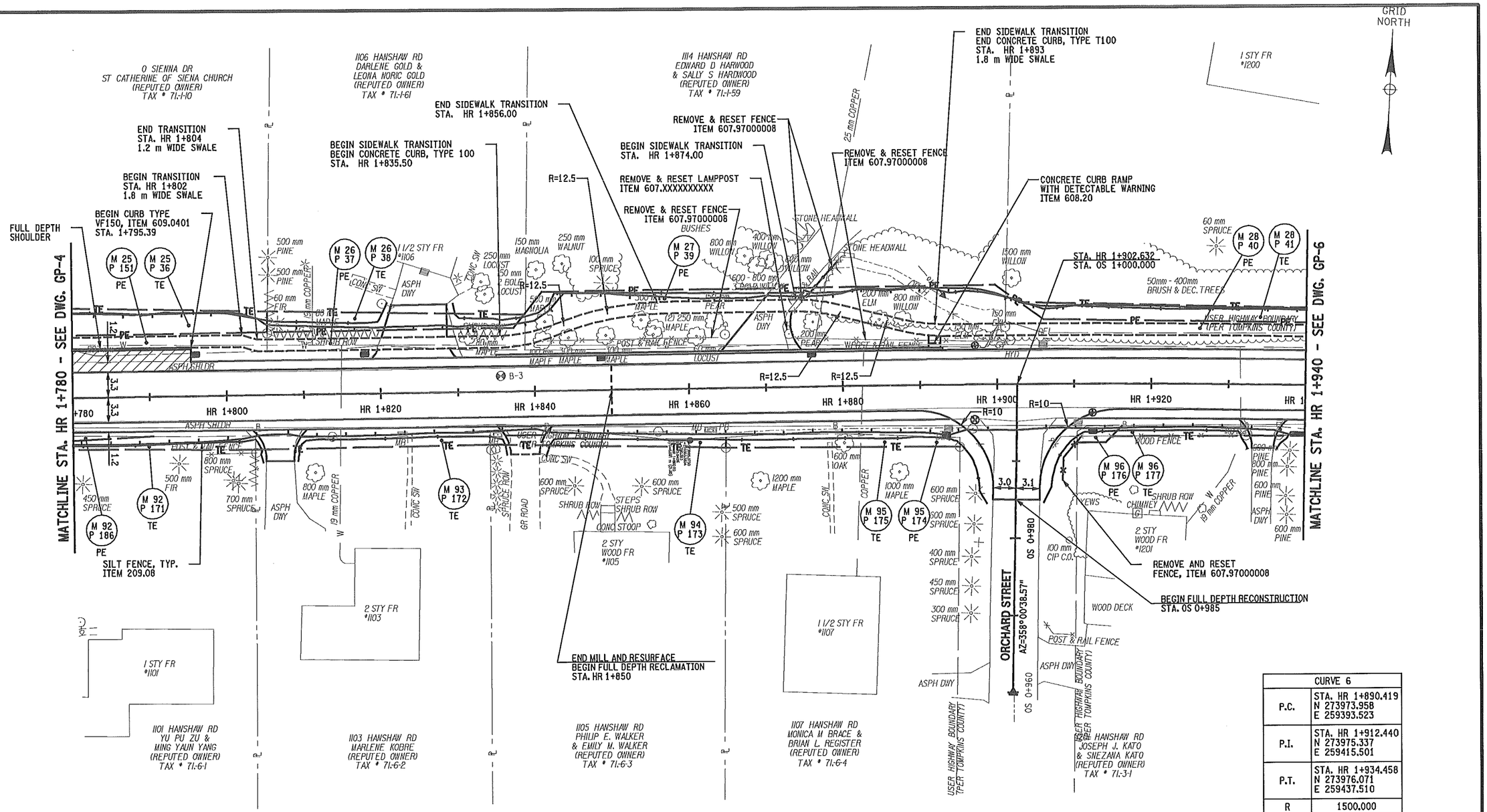
DRAWING NO. GP-4
SHEET NO. 47 OF 130

DOCUMENT NAME: $FILENAME$

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



CURVE 6	
P.C.	STA. HR 1+890.419 N 273973.958 E 259393.523
P.I.	STA. HR 1+912.440 N 273975.337 E 259415.501
P.T.	STA. HR 1+934.458 N 273976.071 E 259437.510
R	1500.000
L	44.039
Δ	1°40'55.79"
T	22.021

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK MARK RAYMOND BUTCHER 076249 LICENSED PROFESSIONAL ENGINEER 5-28-2013	

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NOTES:

1. SEE UTILITY PLANS FOR PROPOSED DRAINAGE AND UTILITY WORK.
2. SEE LANDSCAPE PLANS FOR TREE PLANTING AND REMOVAL.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

FISHERABSOCIATES

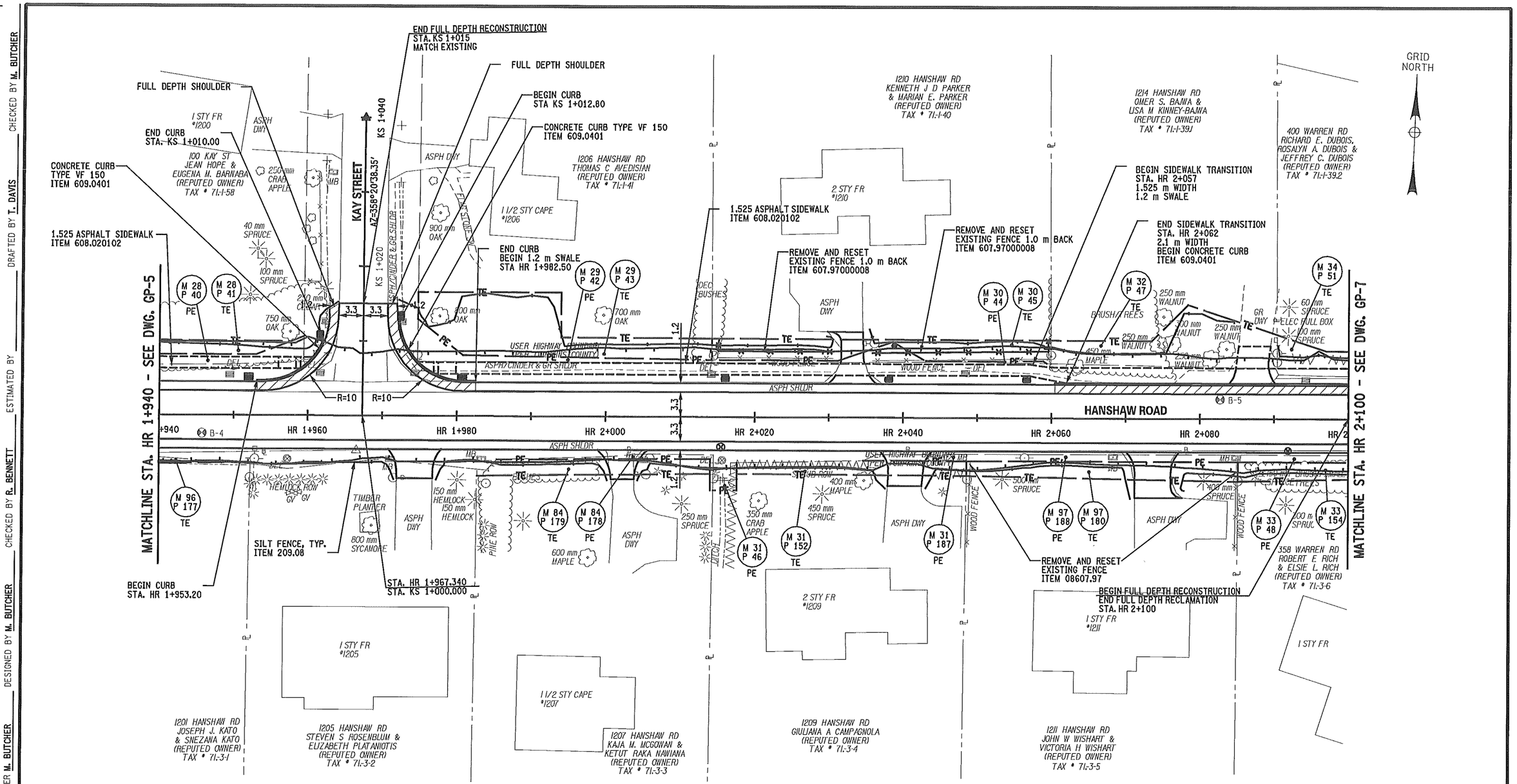
DRAWING NO. GP-5
SHEET NO. 48 OF 130

DOCUMENT NAME: $FILENAME$

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY M. BUTCHER DRAFTED BY T. DAVIS CHECKED BY R. BENNETT ESTIMATED BY



PREPARED BY: ON:	ALTERED BY: ON:

STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-28-2013

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NOTES:

1. SEE UTILITY PLANS FOR PROPOSED DRAINAGE AND UTILITY WORK.
2. SEE LANDSCAPE PLANS FOR TREE PLANTING AND REMOVAL.

0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

FISHERASSOCIATES

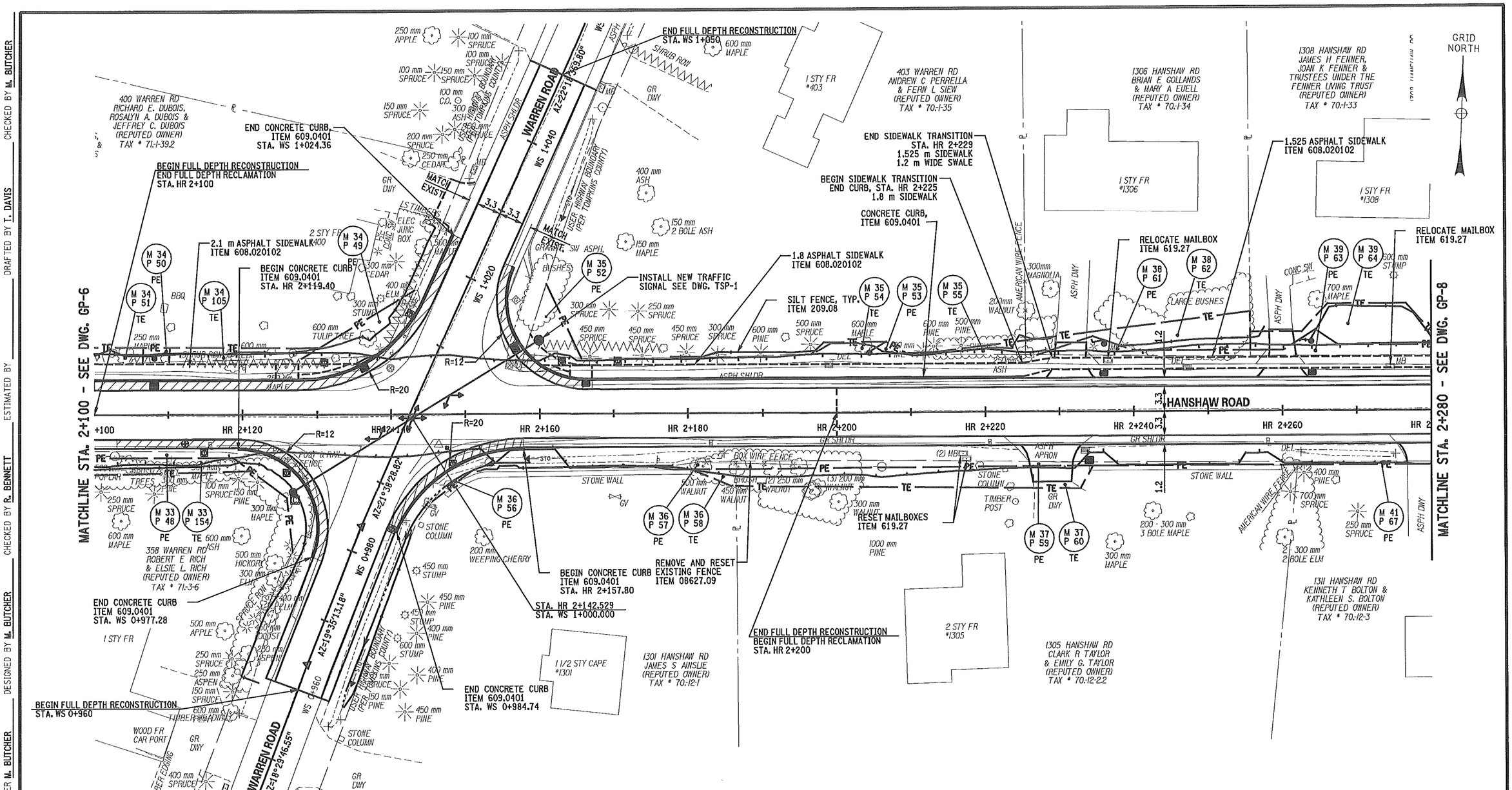
DRAWING NO. GP-6
SHEET NO. 49 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN⊕SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY ____ DRAFTED BY T. DAVIS ____ CHECKED BY M. BUTCHER



PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

FISHER ASSOCIATES

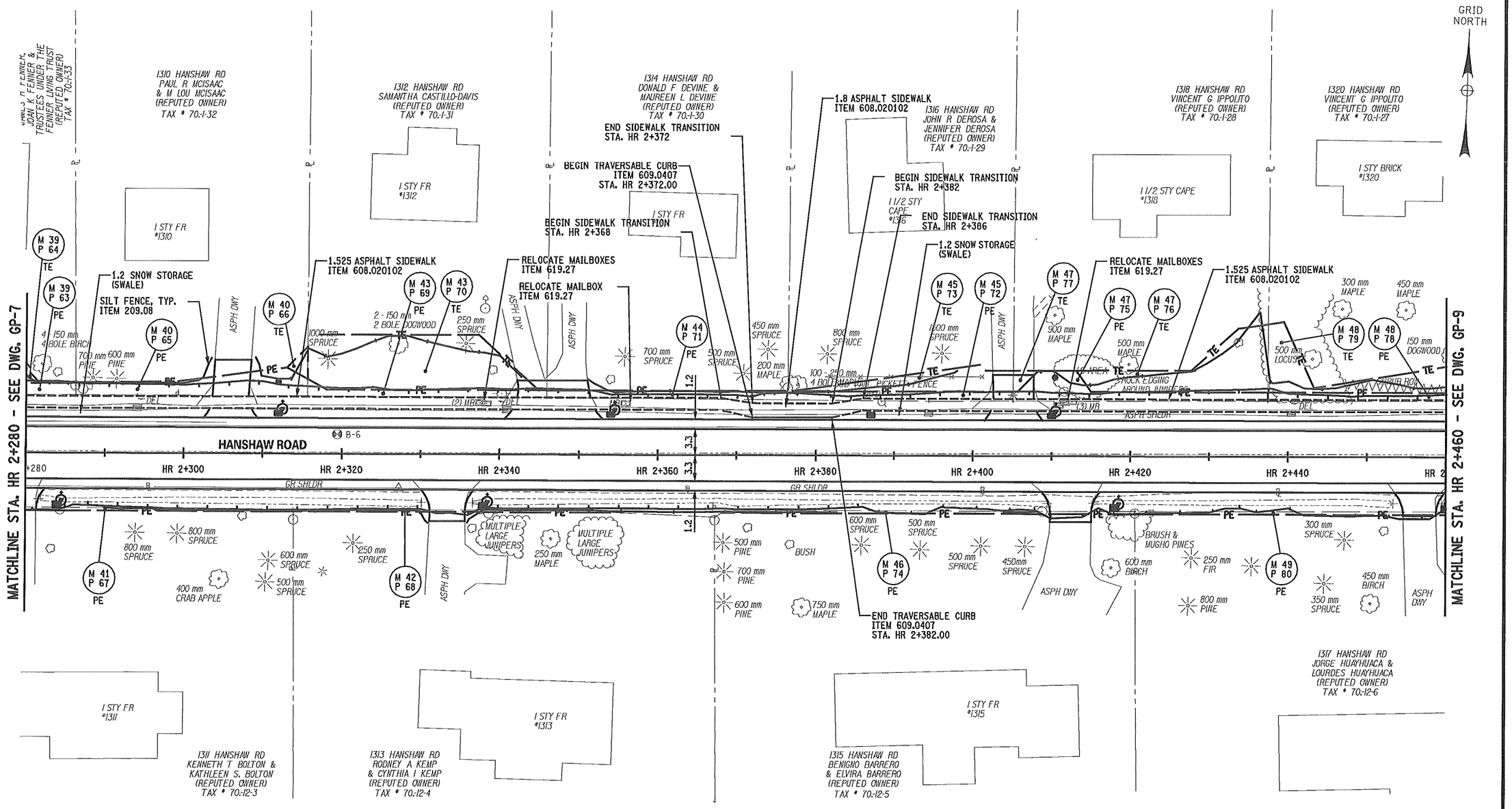
DRAWING NO. GP-7
SHEET NO. 50 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: ⊕FILENAME⊕

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY M. BUTCHER DRAFTED BY T. DAVIS CHECKED BY R. BENNETT ESTIMATED BY

FILE NAME = DGN⊕SPEC
DATE/TIME = 5/14/2013
USER = MARKB



PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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NOTES:

1. SEE UTILITY PLANS FOR PROPOSED DRAINAGE AND UTILITY WORK.
2. SEE LANDSCAPE PLANS FOR TREE PLANTING AND REMOVAL.

0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

FISHERASSOCIATES

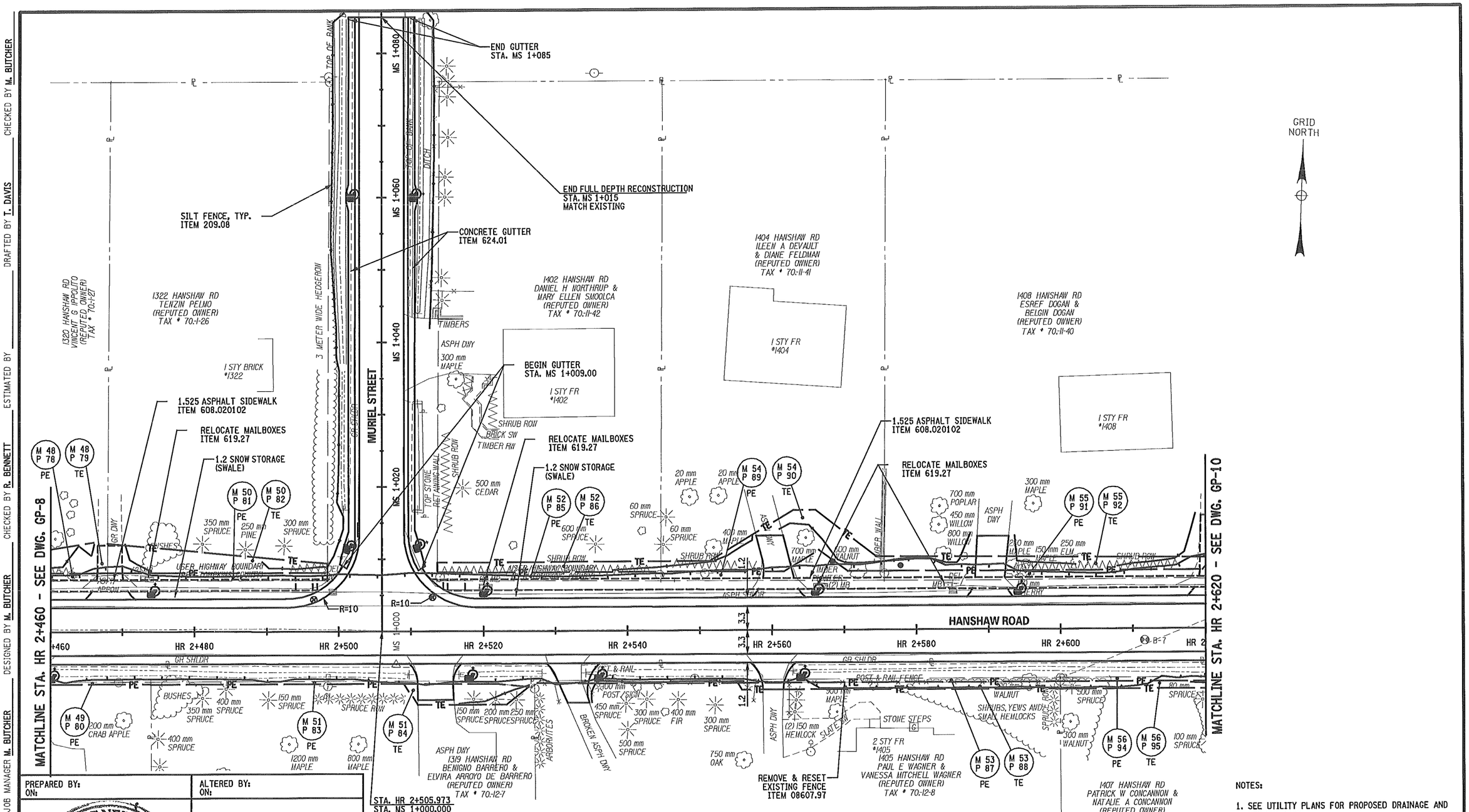
DRAWING NO. GP-8
SHEET NO. 51 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN⊕SPEC
DATE/TIME = 5/14/2013
USER = MARKB



PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

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NOTES:

1. SEE UTILITY PLANS FOR PROPOSED DRAINAGE AND UTILITY WORK.
2. SEE LANDSCAPE PLANS FOR TREE PLANTING AND RENOVAL.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

FISHER ASSOCIATES

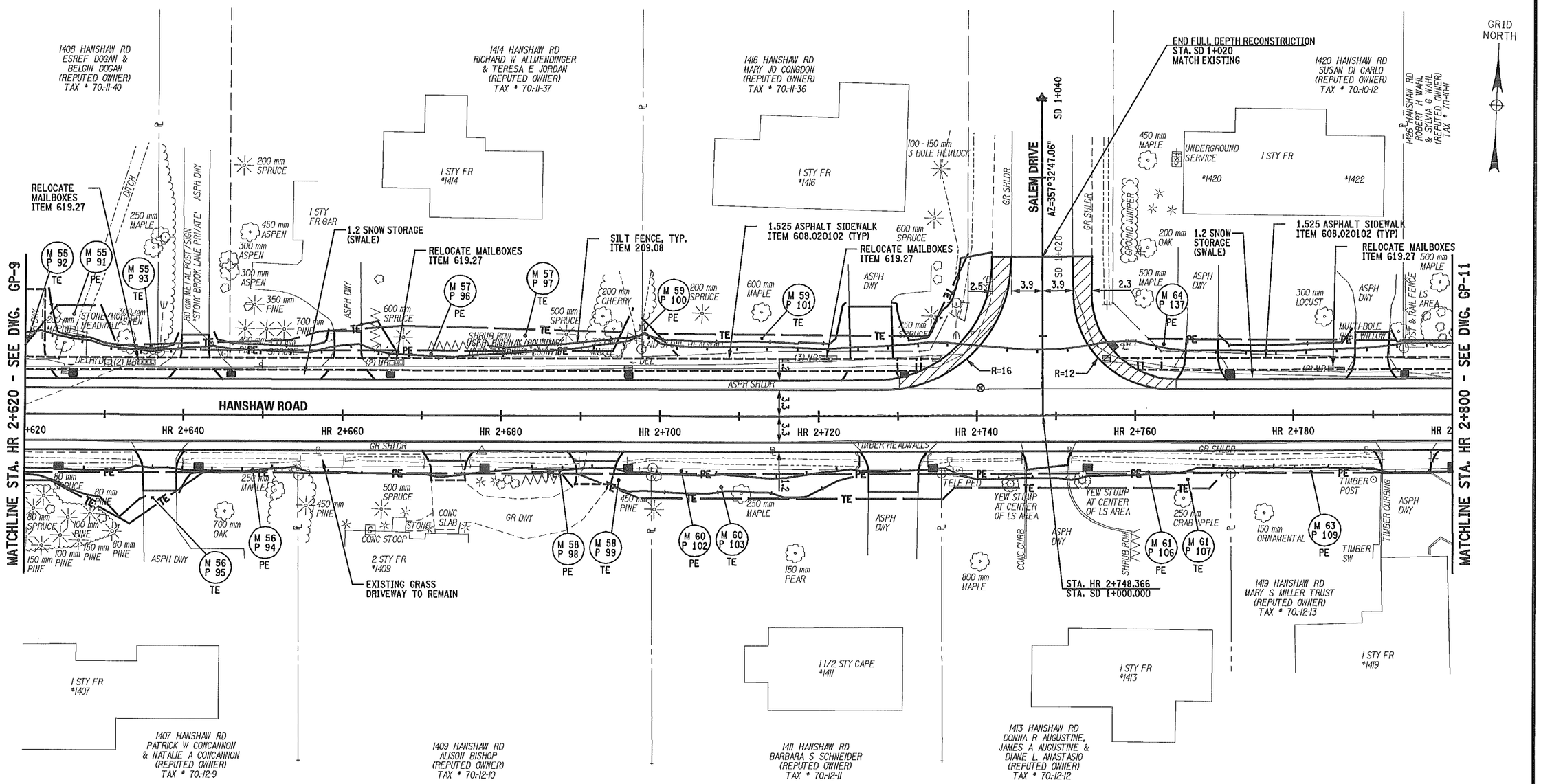
DRAWING NO. GP-9
SHEET NO. 52 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY M. BUTCHER DRAFTED BY T. DAVIS ESTIMATED BY R. BENNETT CHECKED BY M. BUTCHER

FILE NAME = DGN⊕SPEC
DATE/TIME = 5/14/2013
USER = MARKB



PREPARED BY: ON:	ALTERED BY: ON:

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NOTES:

1. SEE UTILITY PLANS FOR PROPOSED DRAINAGE AND UTILITY WORK.
2. SEE LANDSCAPE PLANS FOR TREE PLANTING AND REMOVAL.

0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

FISHERASSOCIATES

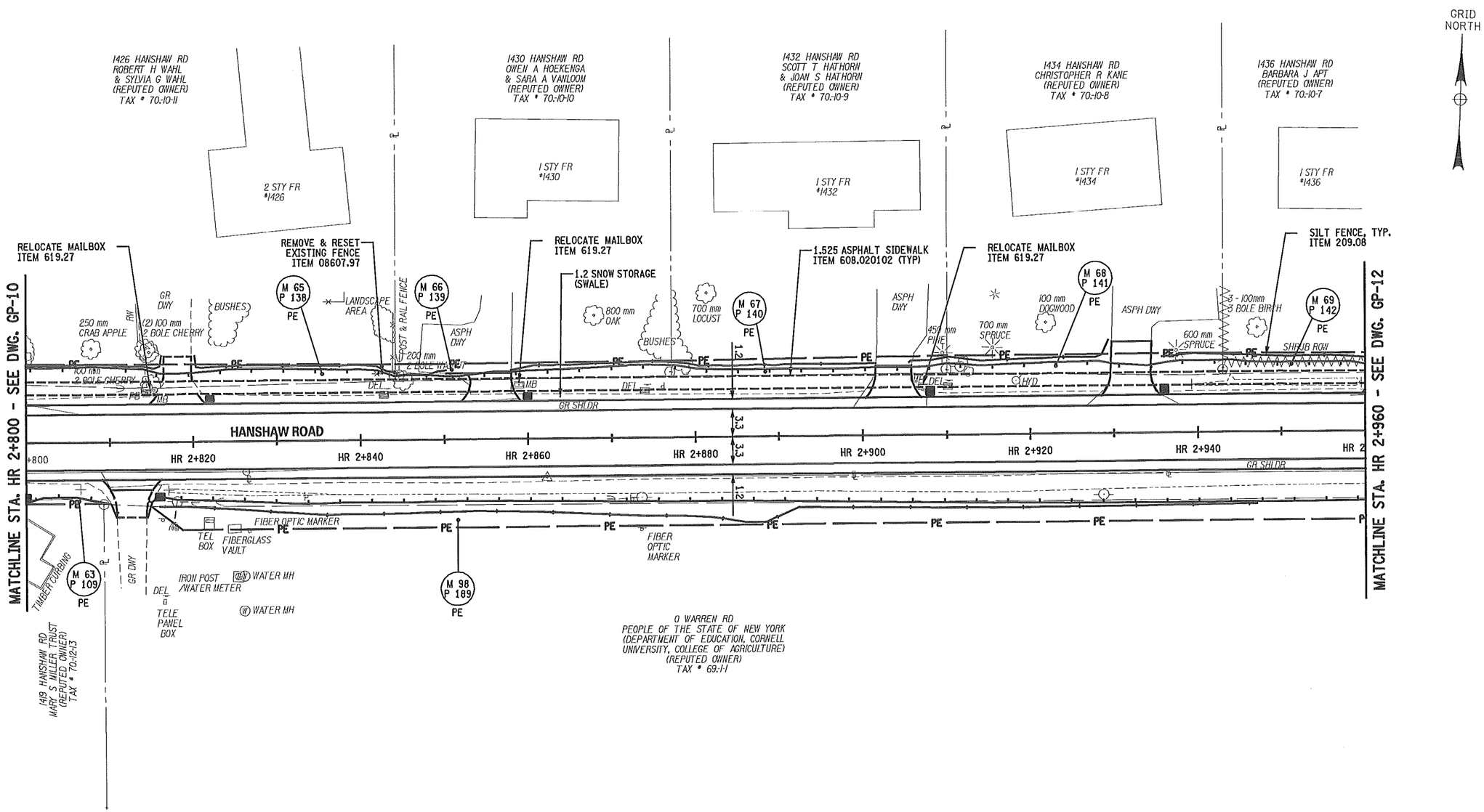
DRAWING NO. GP-10
SHEET NO. 53 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

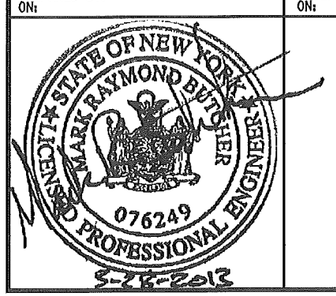
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



PREPARED BY: ON:	ALTERED BY: ON:



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NOTES:

1. SEE UTILITY PLANS FOR PROPOSED DRAINAGE AND UTILITY WORK.
2. SEE LANDSCAPE PLANS FOR TREE PLANTING AND REMOVAL.

0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

FISHER ASSOCIATES

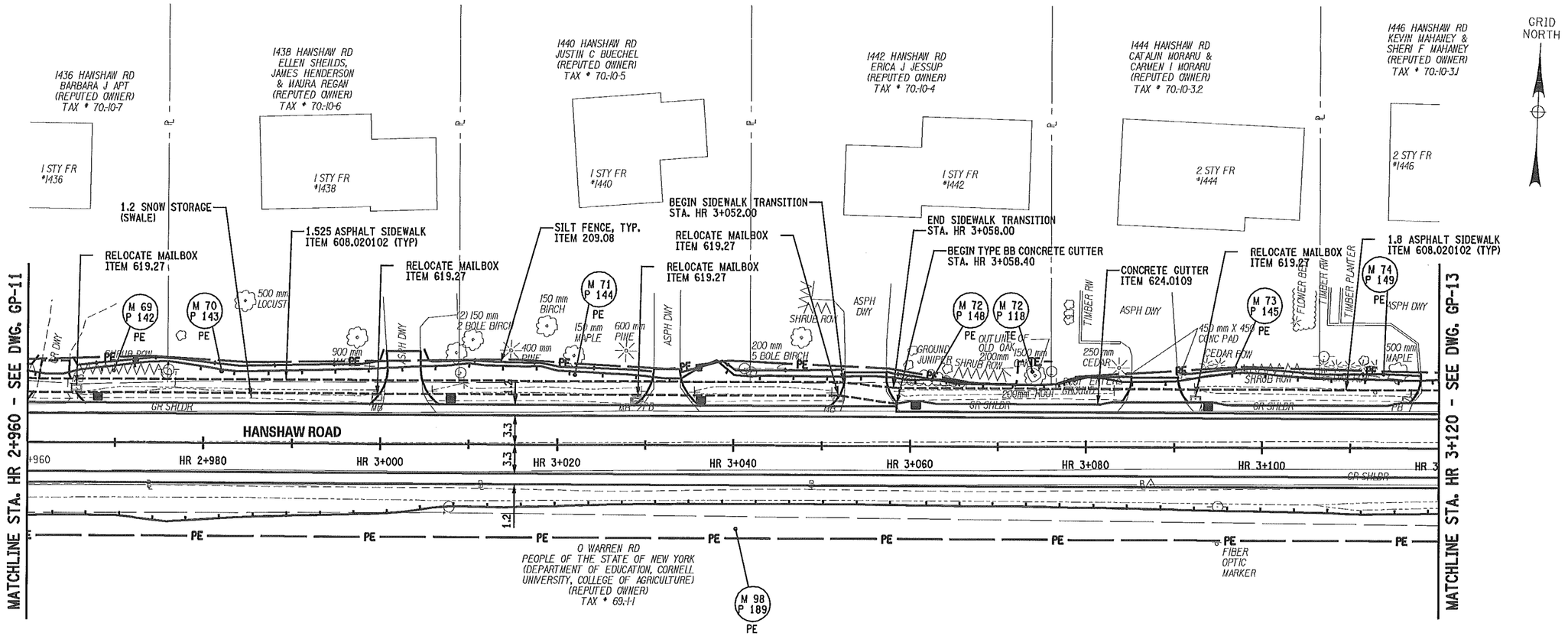
DRAWING NO. GP-11
SHEET NO. 54 OF 130

DOCUMENT NAME: $FILENAME$

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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NOTES:

1. SEE UTILITY PLANS FOR PROPOSED DRAINAGE AND UTILITY WORK.
2. SEE LANDSCAPE PLANS FOR TREE PLANTING AND REMOVAL.

0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

FISHERASSOCIATES

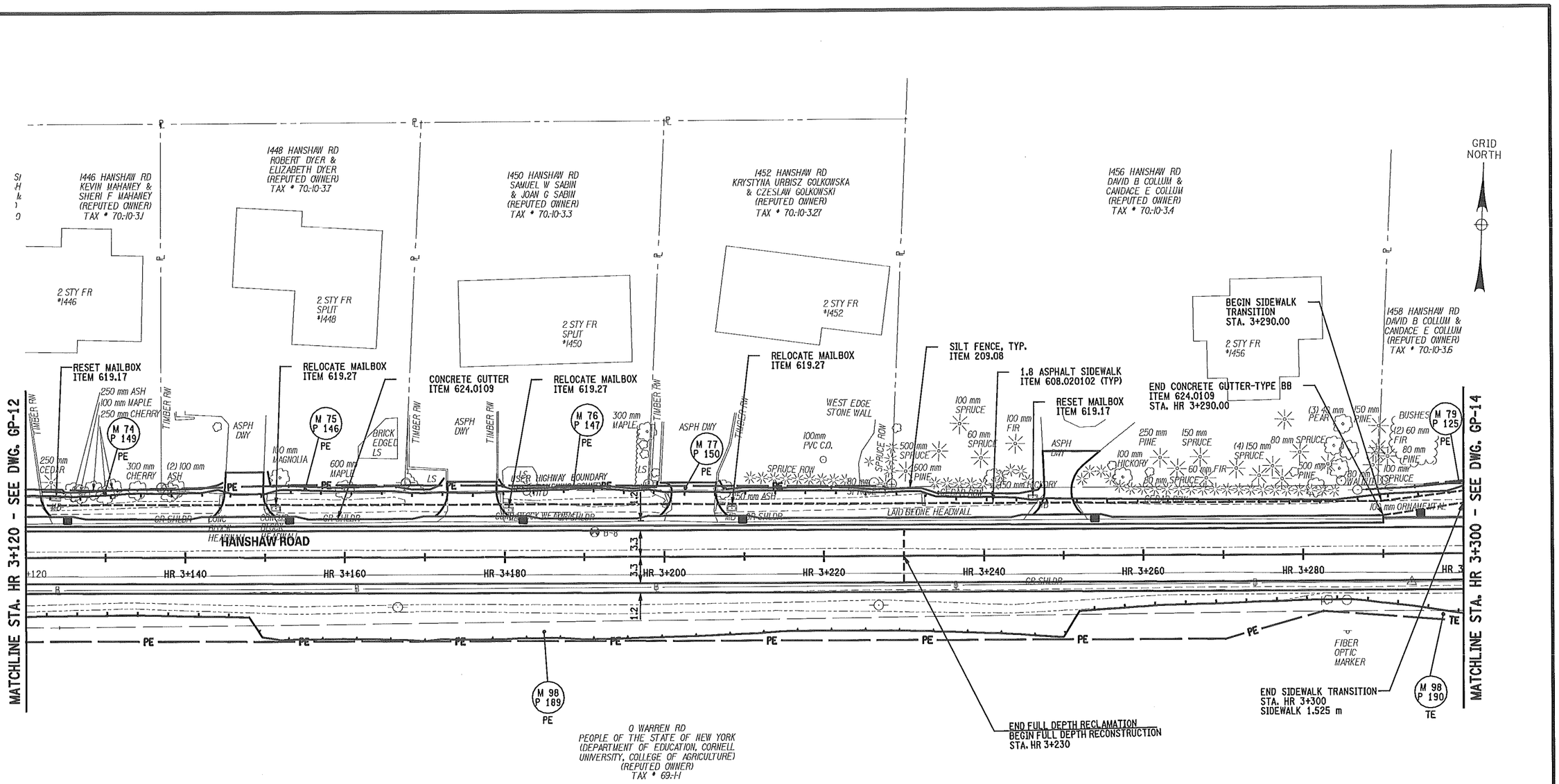
DRAWING NO. GP-12
SHEET NO. 55 OF 130

DOCUMENT NAME: $FILENAME$

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



PREPARED BY: ON:	ALTERED BY: ON:

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0 5 10 15 20 25 m
SCALE

NOTES:

1. SEE UTILITY PLANS FOR PROPOSED DRAINAGE AND UTILITY WORK.
2. SEE LANDSCAPE PLANS FOR TREE PLANTING AND REMOVAL.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: $FILENAME$

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

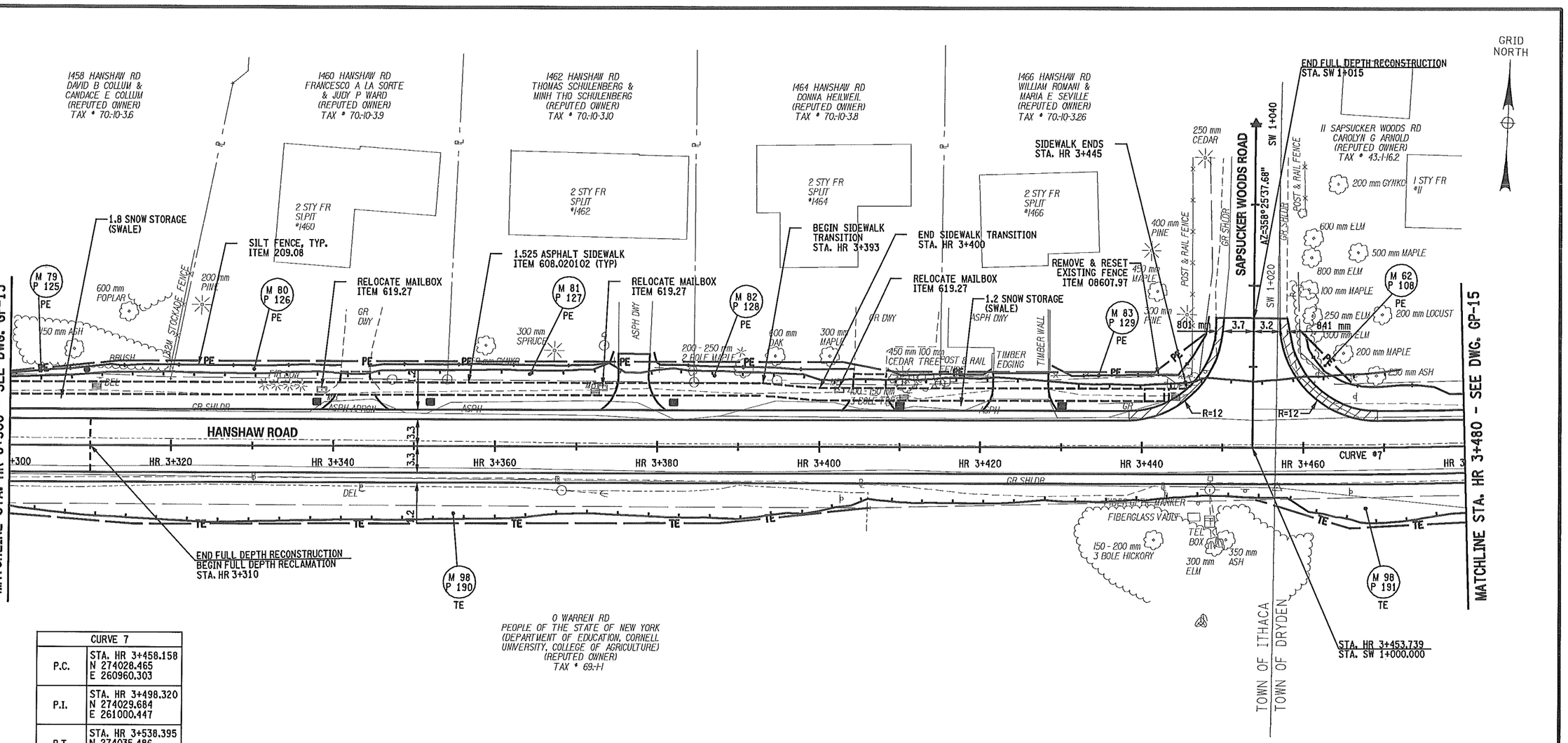
FISHER ASSOCIATES

DRAWING NO. GP-13
SHEET NO. 56 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



CURVE 7	
P.C.	STA. HR 3+458.158 N 274028.465 E 260960.303
P.I.	STA. HR 3+498.320 N 274029.684 E 261000.447
P.T.	STA. HR 3+538.395 N 274035.486 E 261040.188
R	700.000
L	80.237
Δ	6°34'20.85"
T	40.162

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK MARK RAYMOND BUTCHER 076249 LICENSED PROFESSIONAL ENGINEER 5-28-2013	

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

FISHER ASSOCIATES

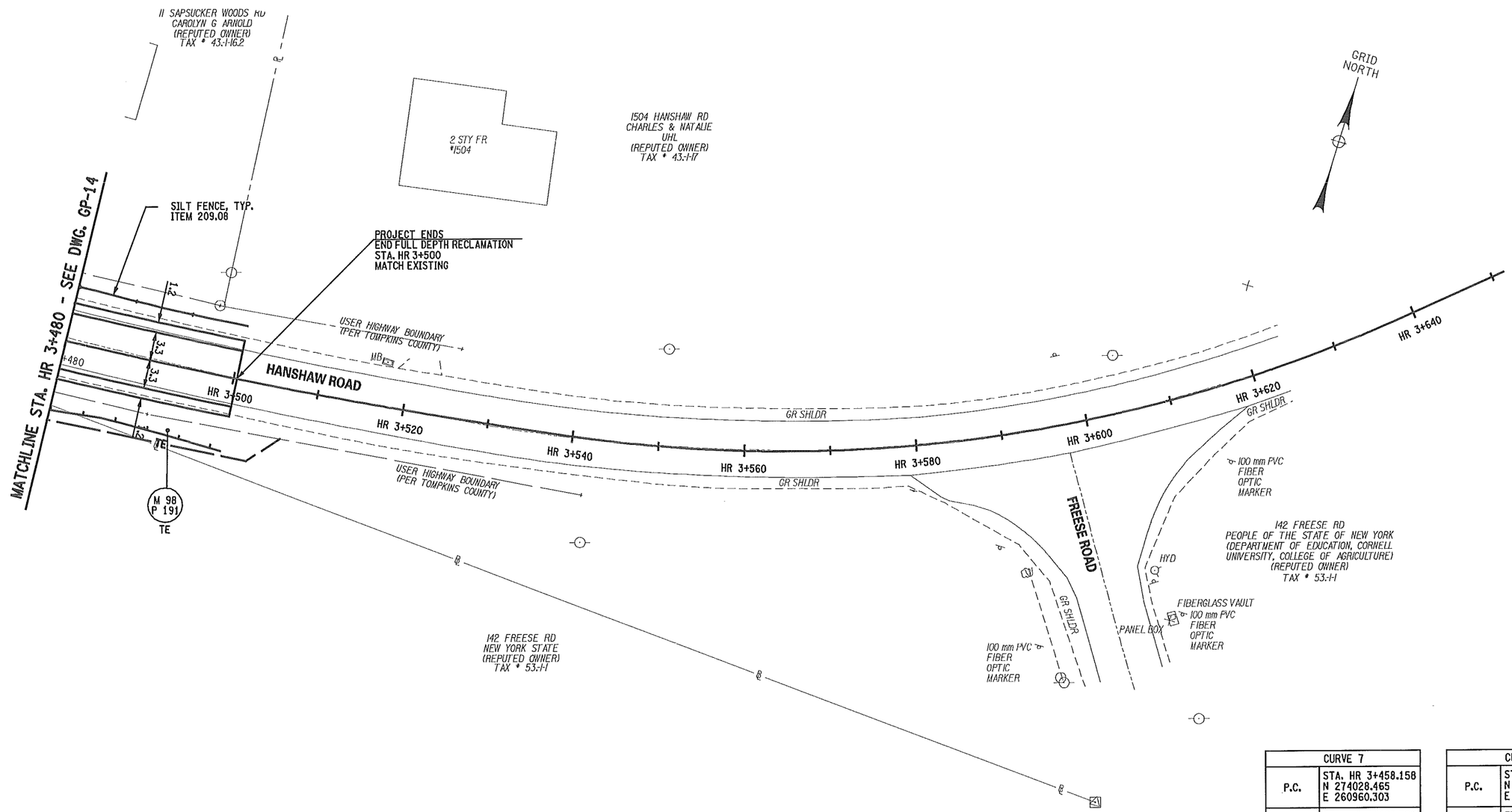
DRAWING NO. GP-14
SHEET NO. 57 OF 130

DOCUMENT NAME: $FILENAME$

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



CURVE 7	
P.C.	STA. HR 3+458.158 N 274028.465 E 260960.303
P.I.	STA. HR 3+498.320 N 274029.684 E 261000.447
P.T.	STA. HR 3+538.395 N 274035.486 E 261040.188
R	700.000
L	80.237
Δ	6°34'20.85"
T	40.162

CURVE 8	
P.C.	STA. HR 3+538.395 N 274035.486 E 261040.188
P.I.	STA. HR 3+589.829 N 274042.917 E 261091.083
P.T.	STA. HR 3+638.446 N 274076.704 E 261129.863
R	175.000
L	100.052
Δ	32°45'26.38"
T	51.434

0 5 10 15 20 25 m
SCALE

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER 5-28-2013	

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: @FILENAME@

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

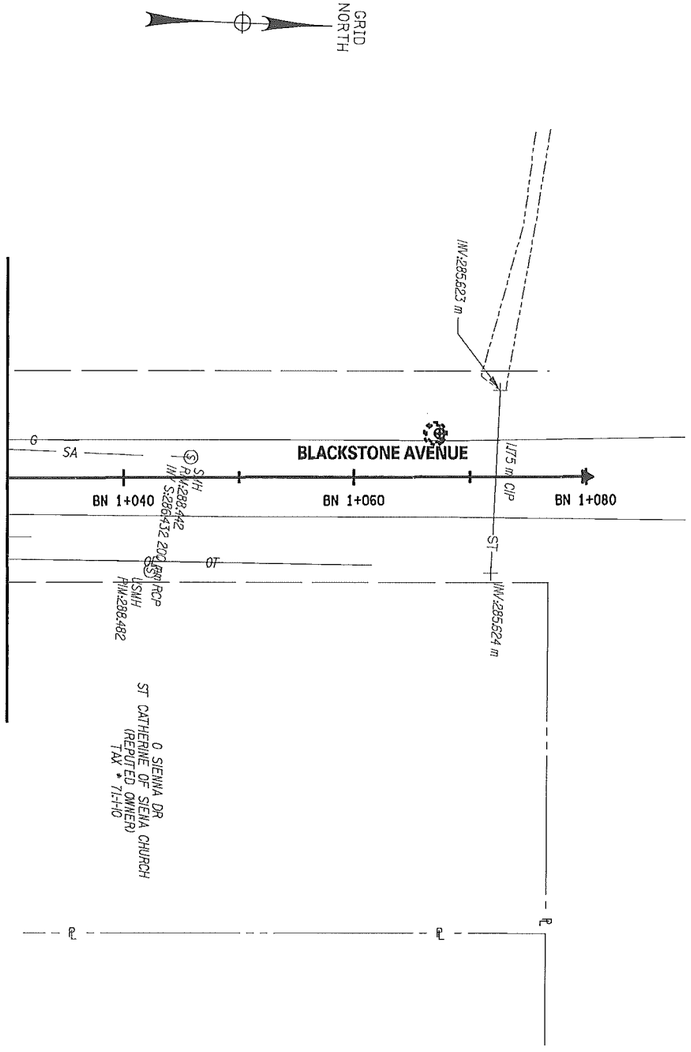
FISHER ASSOCIATES

DRAWING NO. GP-15
SHEET NO. 58 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN9SPEC
DATE/TIME = 5/14/2013
USER = MARKB



PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

GENERAL PLAN

FISHER ASSOCIATES

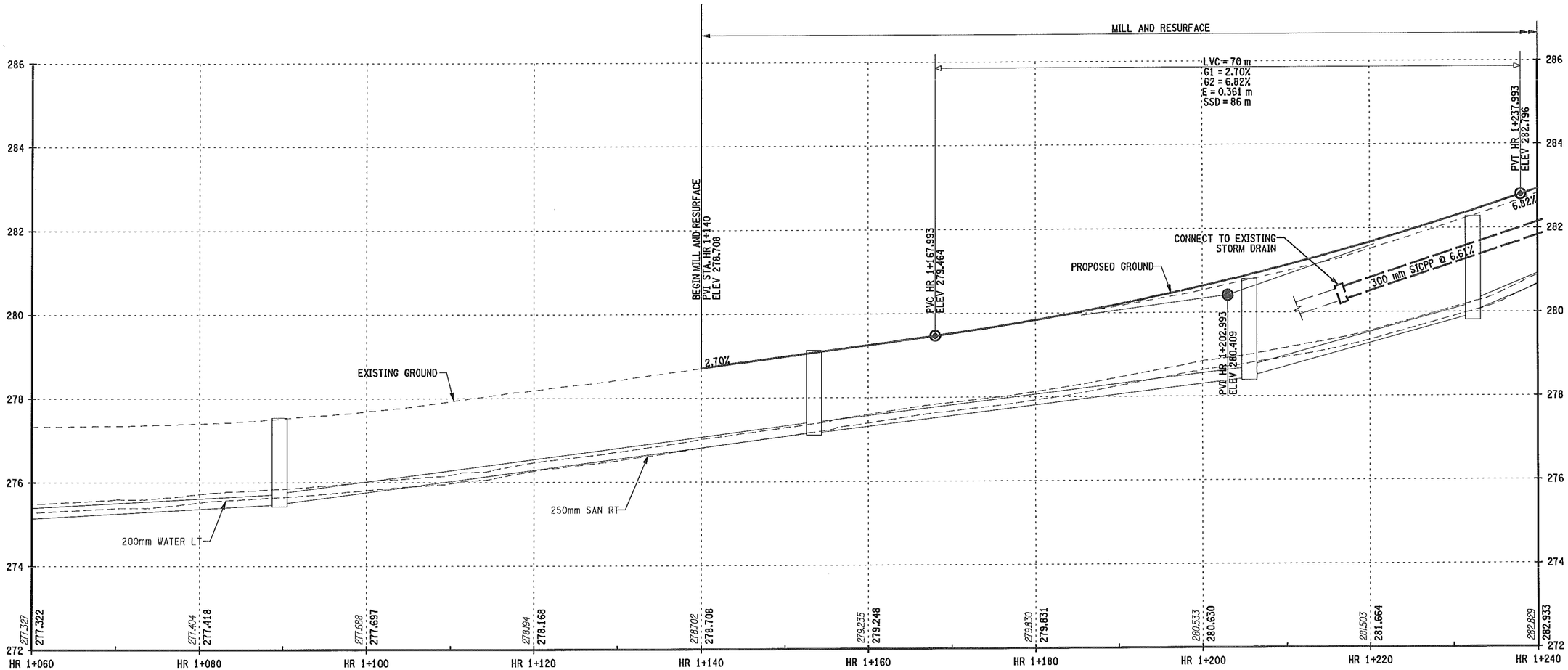
DRAWING NO. GP-16
SHEET NO. 59 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

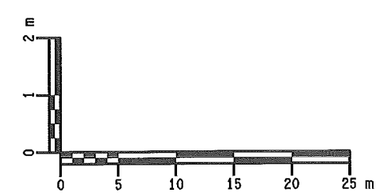
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN⊕SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



HANSHAW ROAD
NORMAL CROWN



HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: 375325A_PRO.DGN

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 1+060 TO HR 1+240
PROFILE

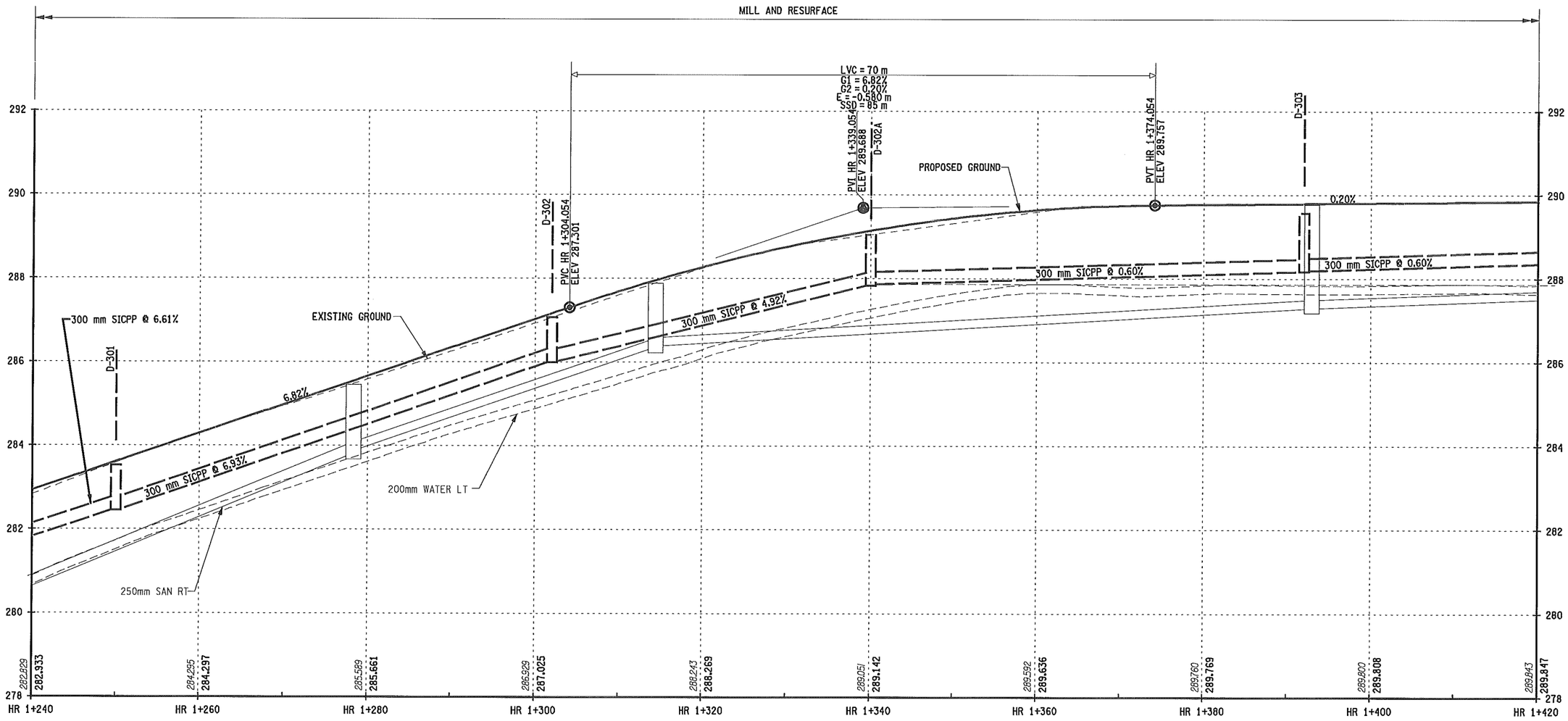
FISHER ASSOCIATES

DRAWING NO. PR-1
SHEET NO. 60 OF 130

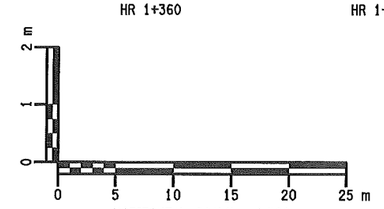
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN#SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



HANSHAW ROAD
NORMAL CROWN



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VERTICAL SCALE = 1:100

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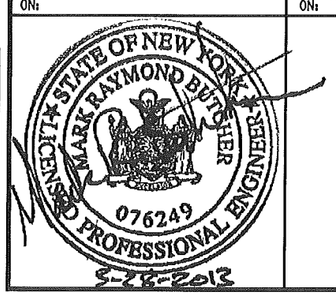

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 1+240 TO HR 1+420
PROFILE

FISHERASSOCIATES

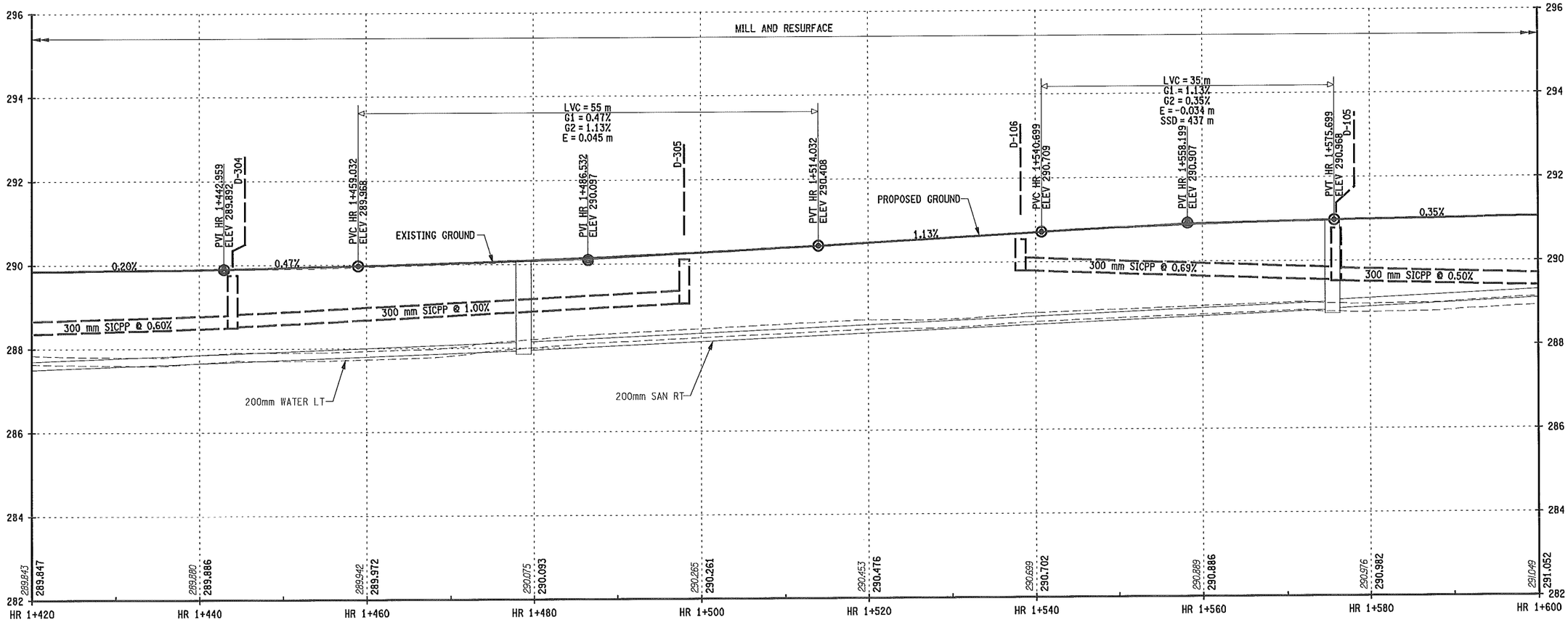
DRAWING NO. PR-2
SHEET NO. 61 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

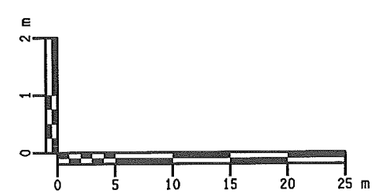
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY ____ DRAFTED BY T. DAVIS ____ CHECKED BY M. BUTCHER



HANSHAW ROAD
NORMAL CROWN



HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 1+420 TO HR 1+600
PROFILE

FISHER ASSOCIATES

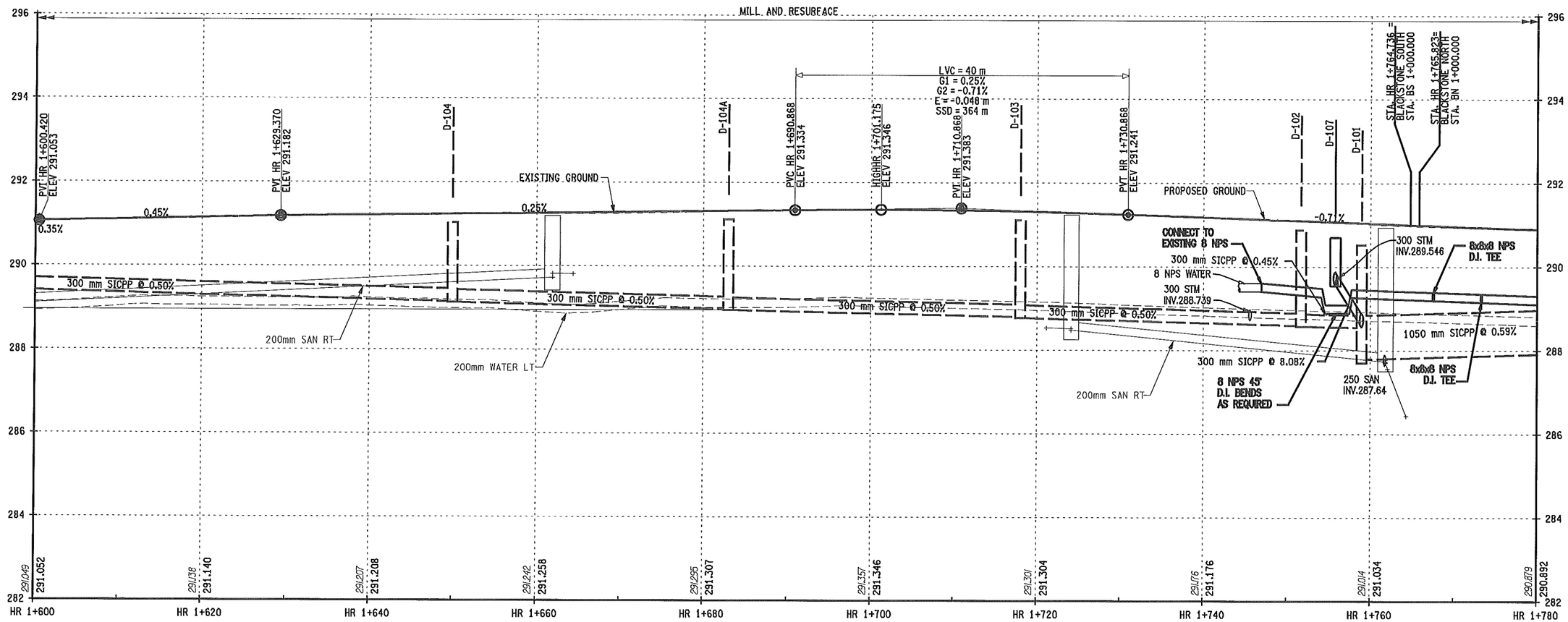
DRAWING NO. PR-3
SHEET NO. 62 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

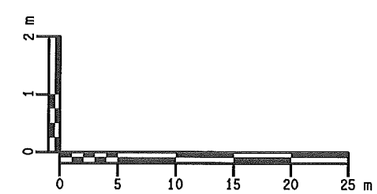
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



HANSHAW ROAD
NORMAL CROWN



HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:

STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-28-2013

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 1+600 TO HR 1+780
PROFILE

FISHERASSOCIATES

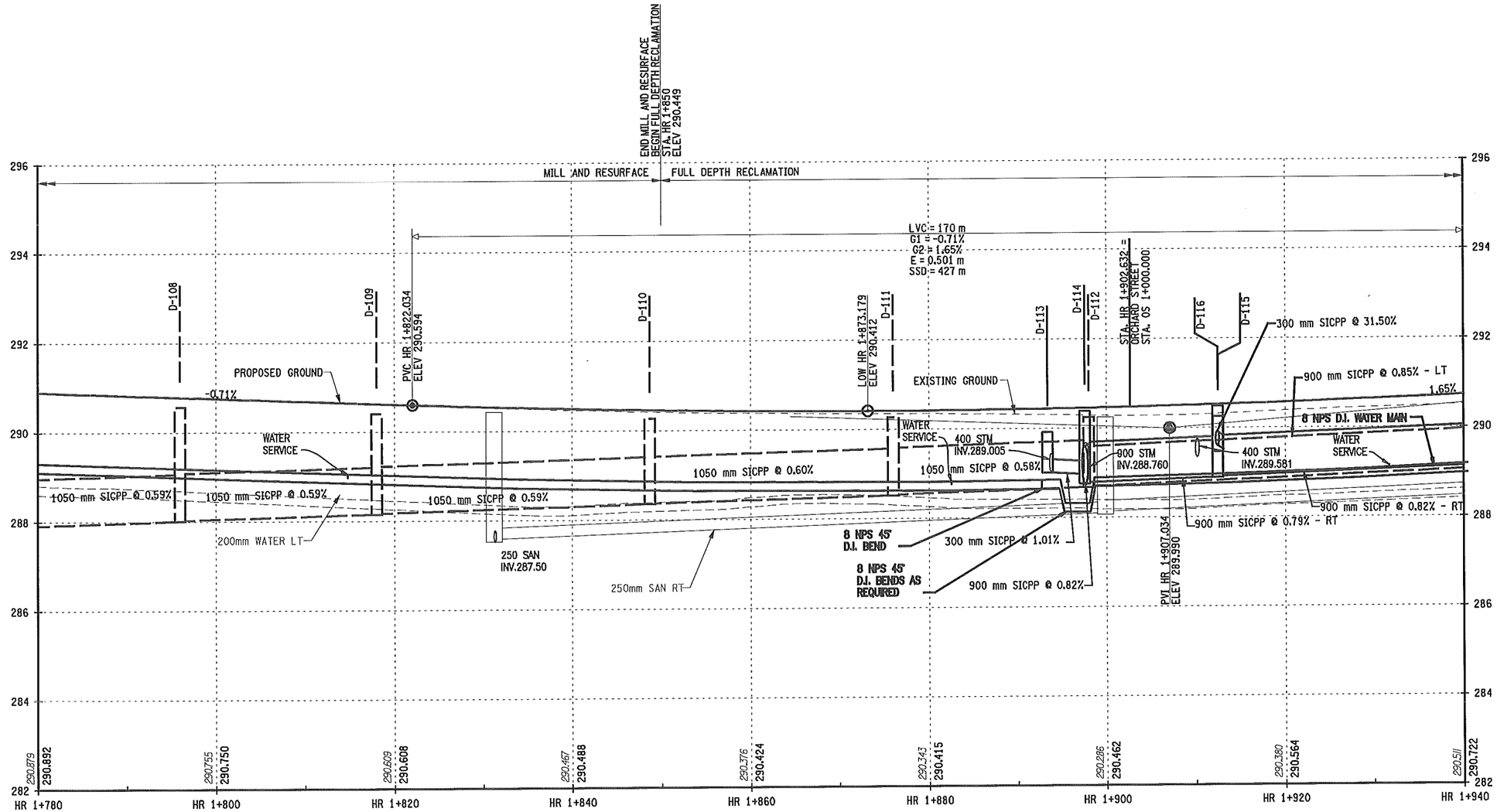
DRAWING NO. PR-4
SHEET NO. 63 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

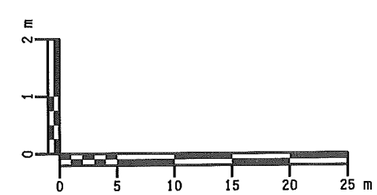
DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



HANSHAW ROAD

NORMAL CROWN



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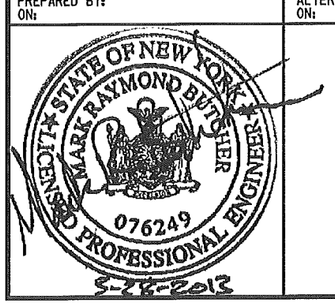

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DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: 375325A_PRO.DGN

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 1+780 TO HR 1+940
PROFILE

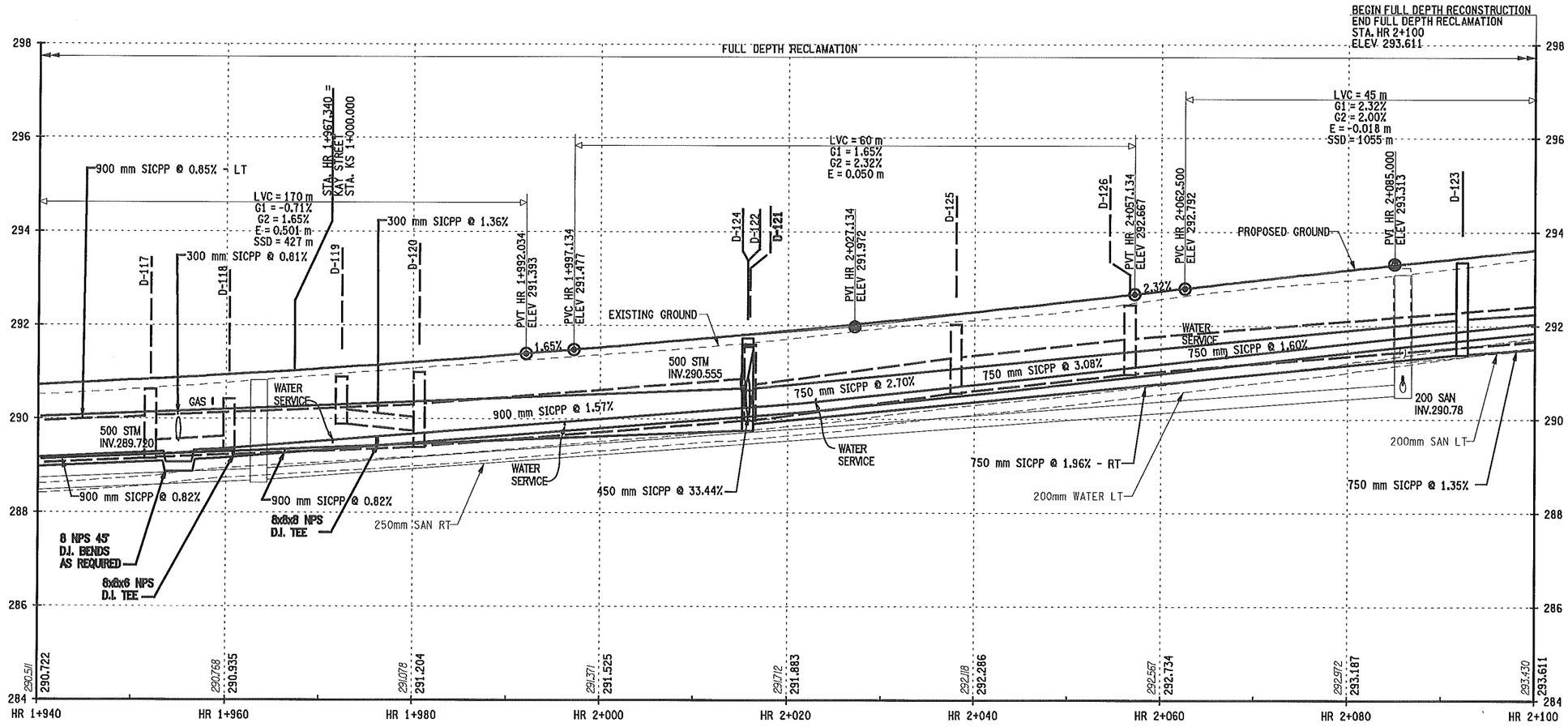
FISHER ASSOCIATES

DRAWING NO. PR-5
SHEET NO. 64 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

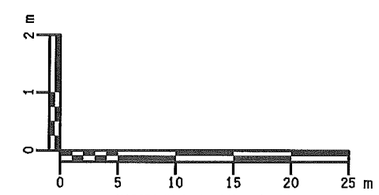
DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER
ESTIMATED BY CHECKED BY R. BENNETT
DESIGNED BY M. BUTCHER
JOB MANAGER M. BUTCHER
DESIGN SUPERVISOR D. JUDSON

FILE NAME = DGNSPEC
DATE/TIME = 5/14/2013
USER = MARKB



HANSHAW ROAD

NORMAL CROWN



HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 1+940 TO HR 2+100
PROFILE

FISHER ASSOCIATES

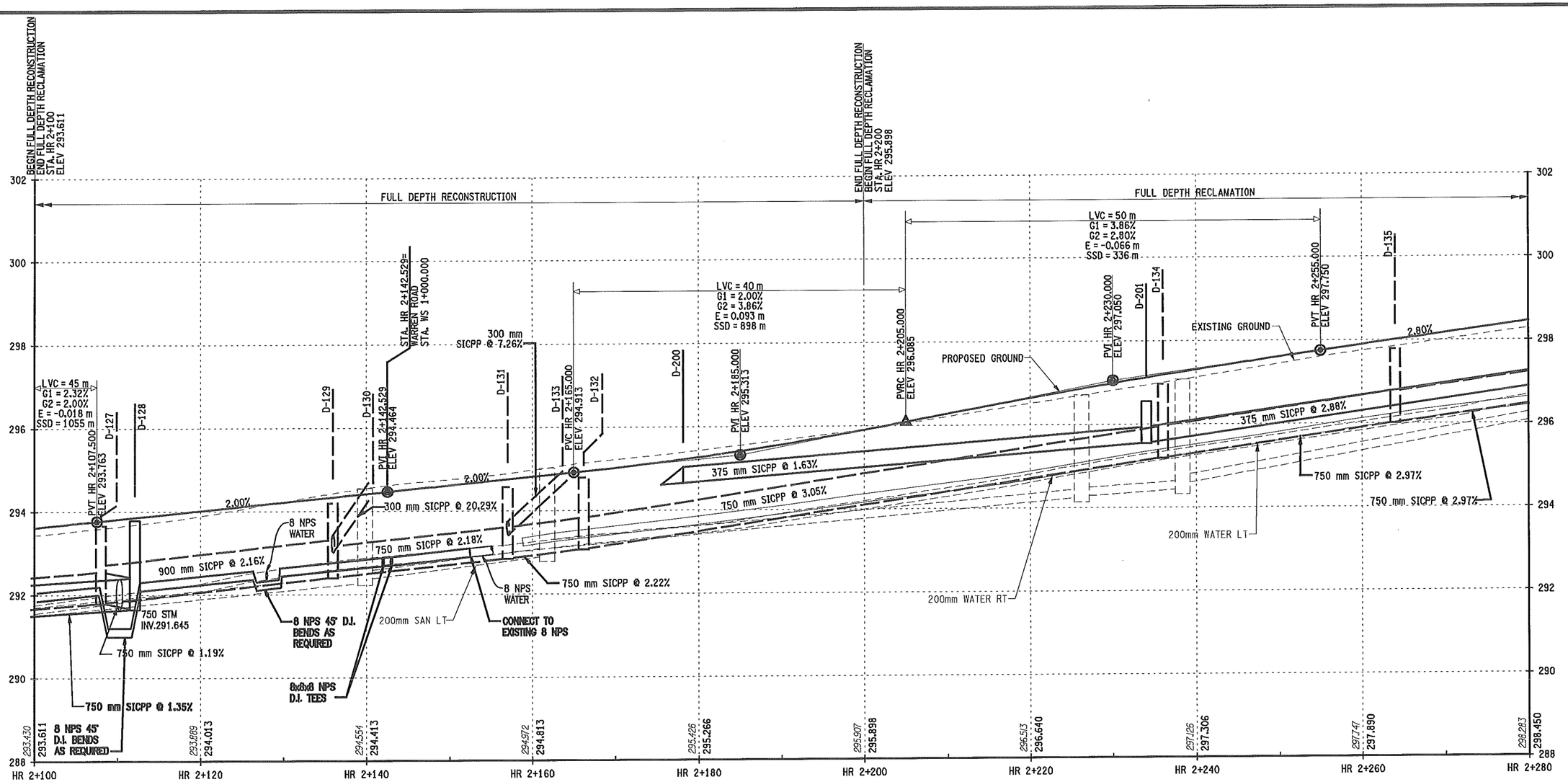
DRAWING NO. PR-6
SHEET NO. 65 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

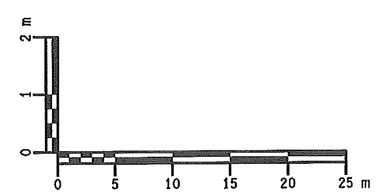
DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



HANSHAW ROAD

NORMAL CROWN



HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:

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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 2+100 TO HR 2+280
PROFILE

FISHERASSOCIATES

DRAWING NO. PR-7
SHEET NO. 66 OF 130

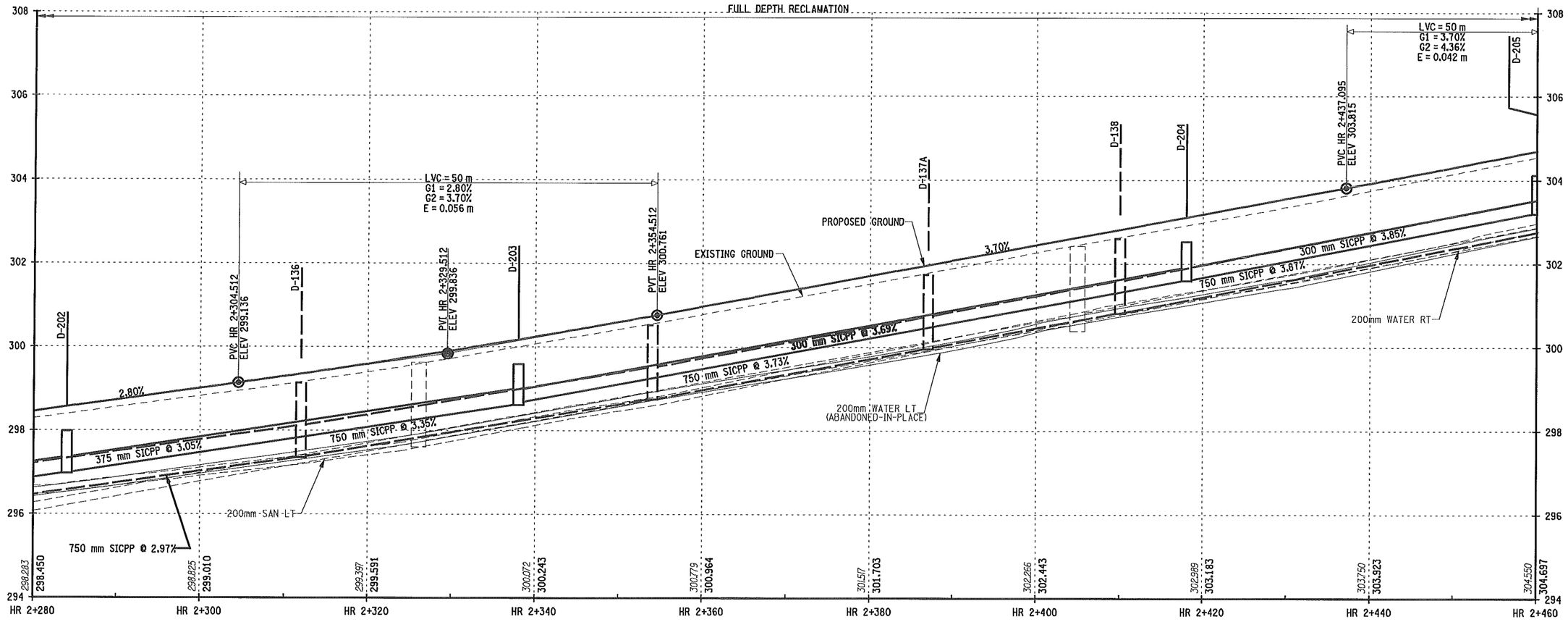
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: 375325A_PRO.DGN

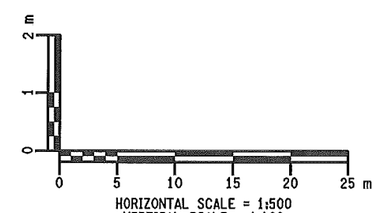
DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

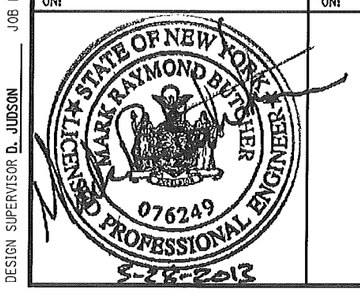


HANSHAW ROAD
NORMAL CROWN



HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 2+280 TO HR 2+460
PROFILE

FISHER ASSOCIATES

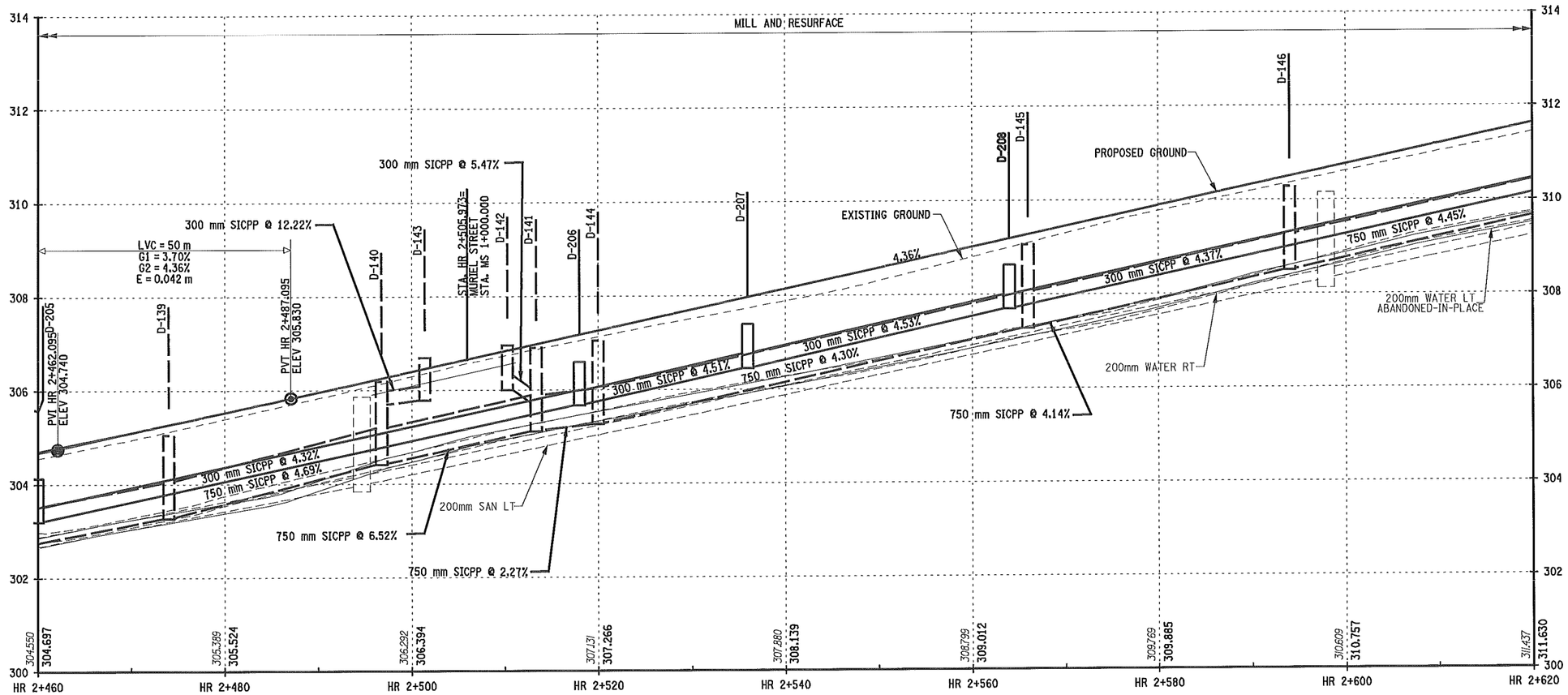
DRAWING NO. PR-8
SHEET NO. 67 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

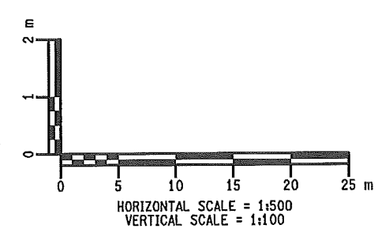
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



HANSHAW ROAD
NORMAL CROWN



PREPARED BY: ON:	ALTERED BY: ON:

STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-28-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: 375325A_PRO.DGN

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 2+460 TO HR 2+620
PROFILE

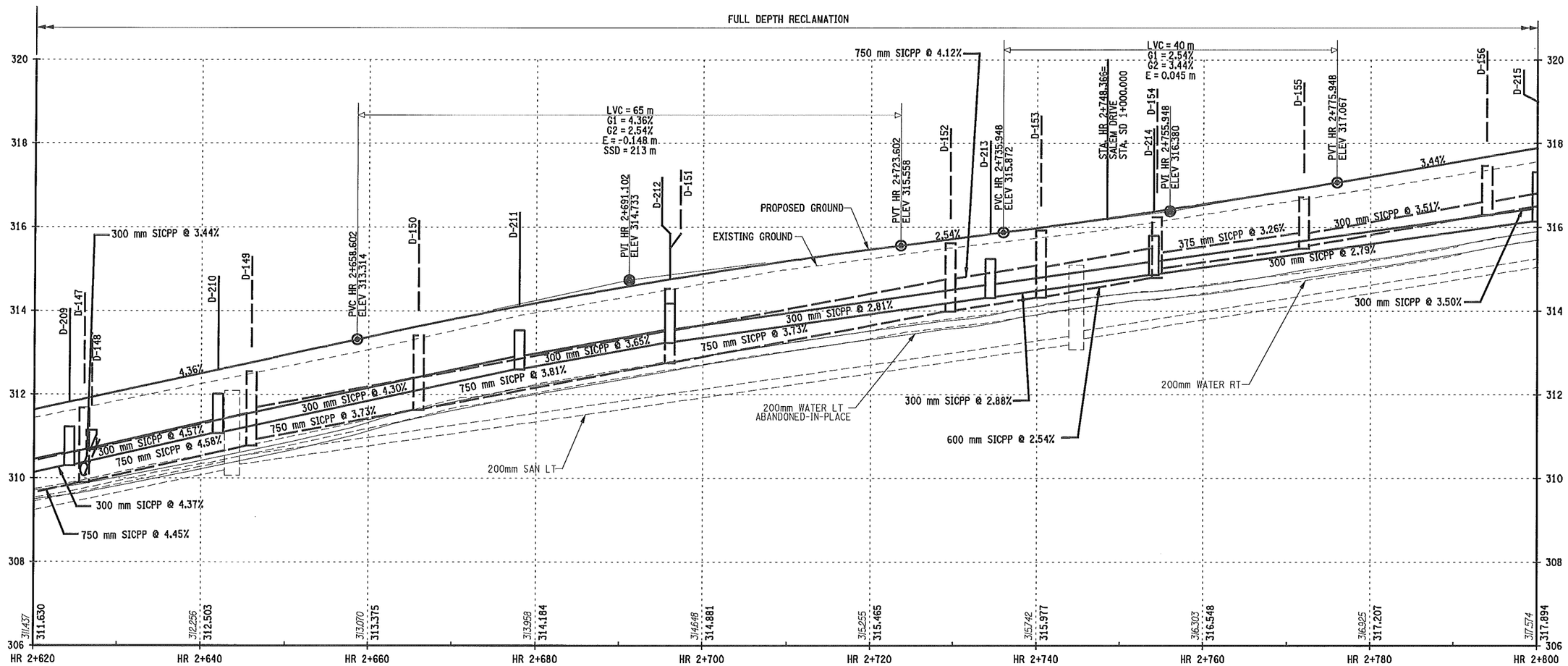
FISHER ASSOCIATES

DRAWING NO. PR-9
SHEET NO. 68 OF 130

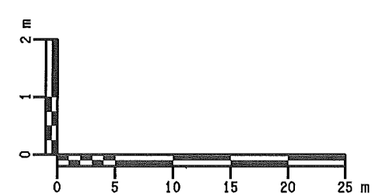
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



HANSHAW ROAD
NORMAL CROWN



HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 2+620 TO HR 2+800
PROFILE

FISHER ASSOCIATES

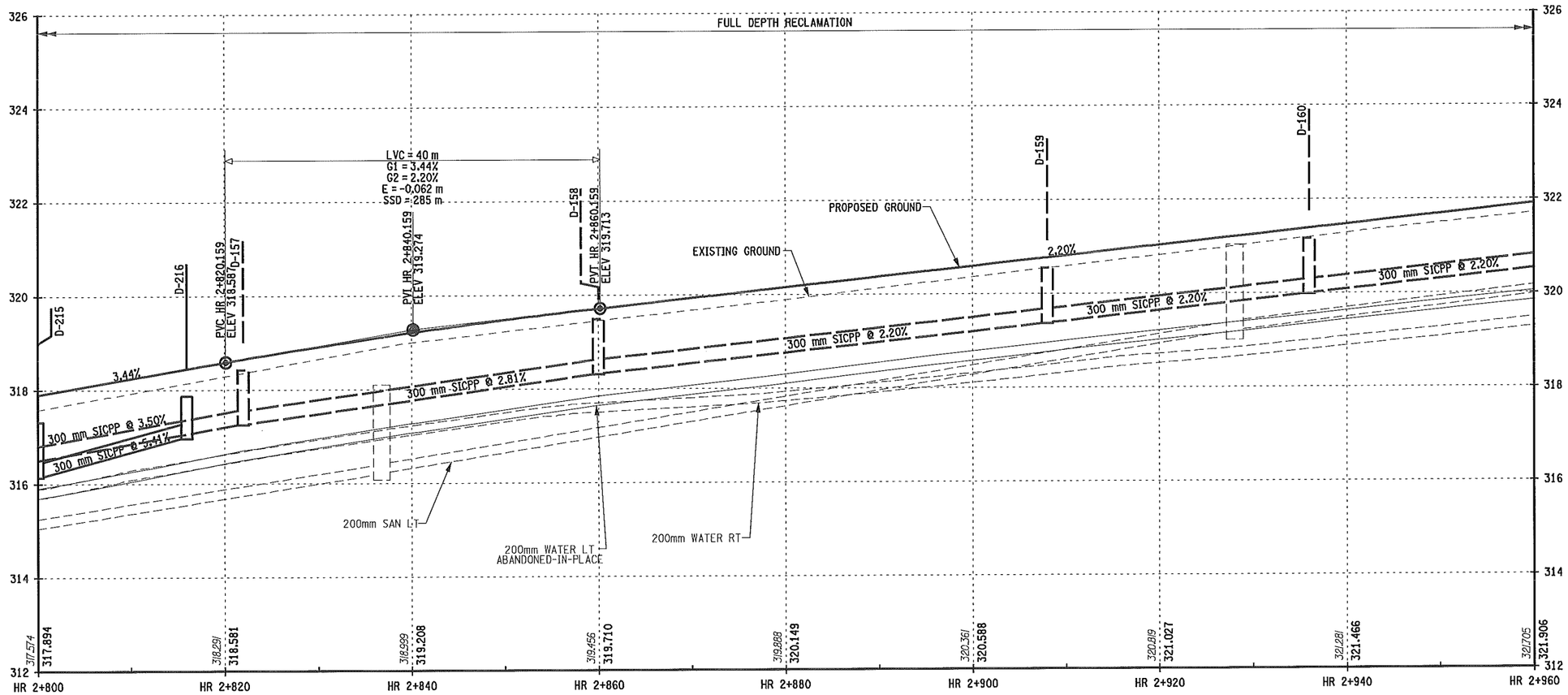
DRAWING NO. PR-10
SHEET NO. 69 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

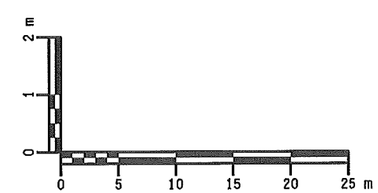
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



HANSHAW ROAD
NORMAL CROWN



HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: 375325A_PRO.DGN

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 2+800 TO HR 2+960
PROFILE

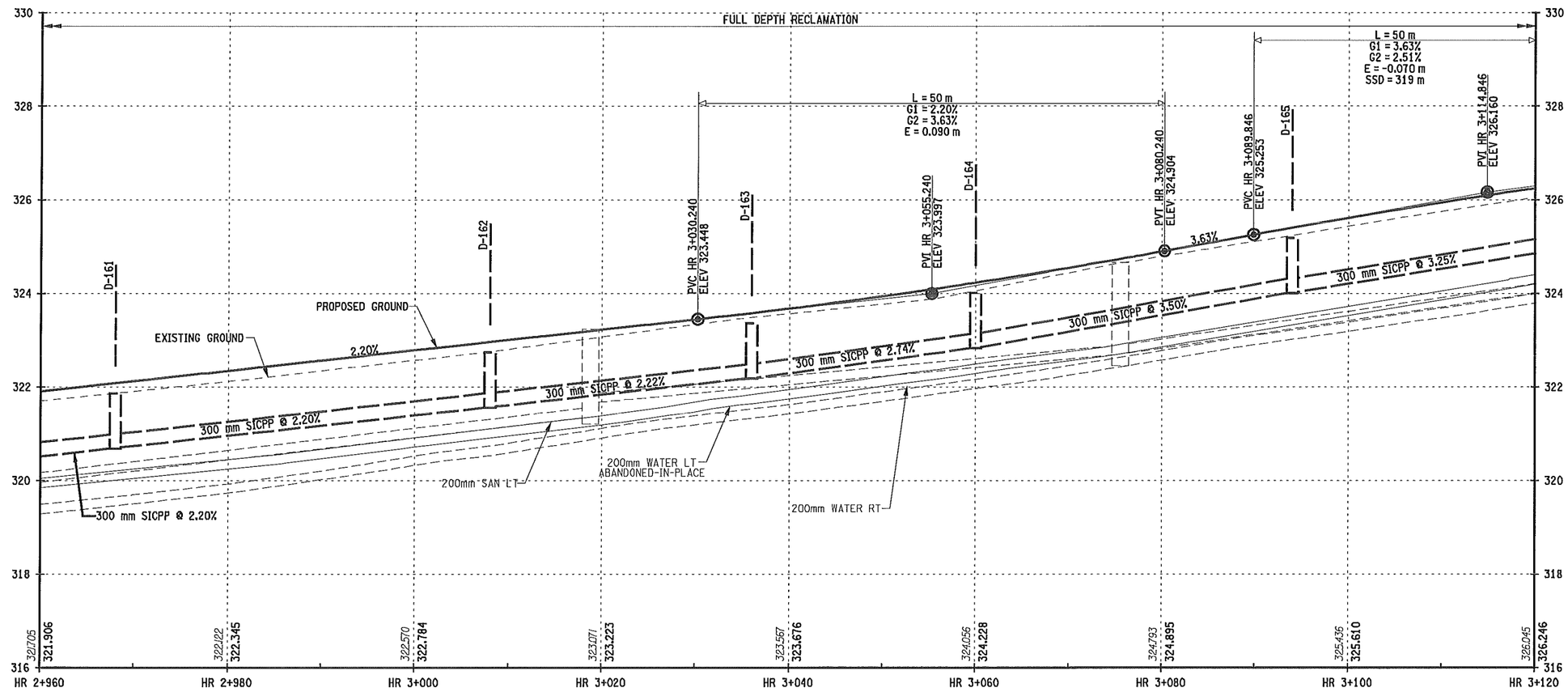
FISHER ASSOCIATES

DRAWING NO. PR-11
SHEET NO. 70 OF 130

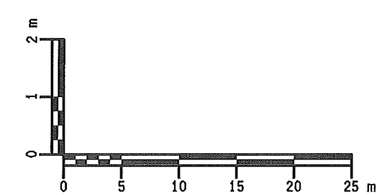
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



HANSHAW ROAD
NORMAL CROWN



HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 2+960 TO HR 3+120
PROFILE

FISHER ASSOCIATES

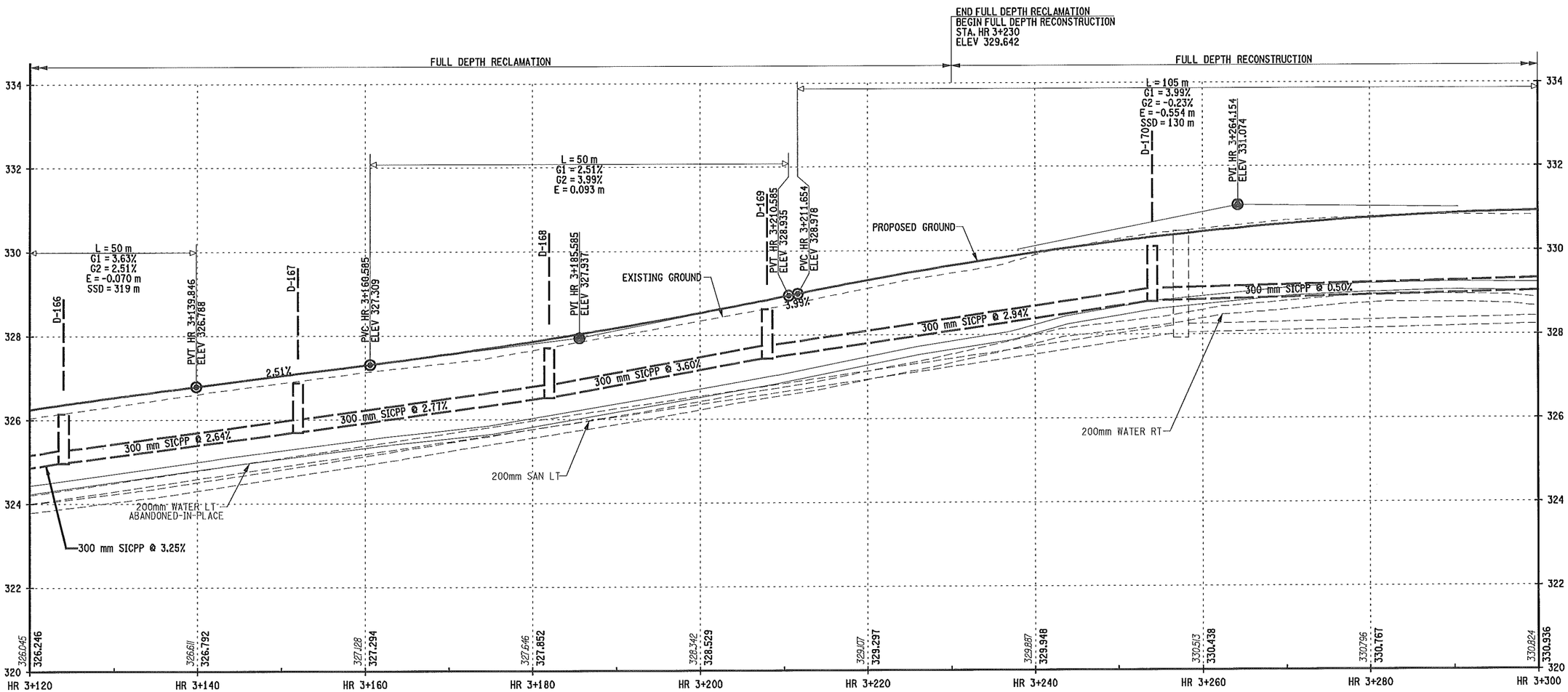
DRAWING NO. PR-12
SHEET NO. 71 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

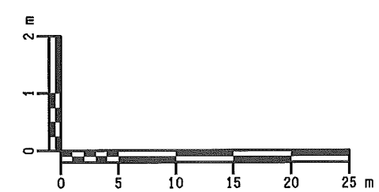
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



HANSHAW ROAD
NORMAL CROWN



HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK MARK RAYMOND BUTCHER 076249 LICENSED PROFESSIONAL ENGINEER 5-28-2013	

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SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 3+120 TO HR 3+300
PROFILE

FISHERASSOCIATES

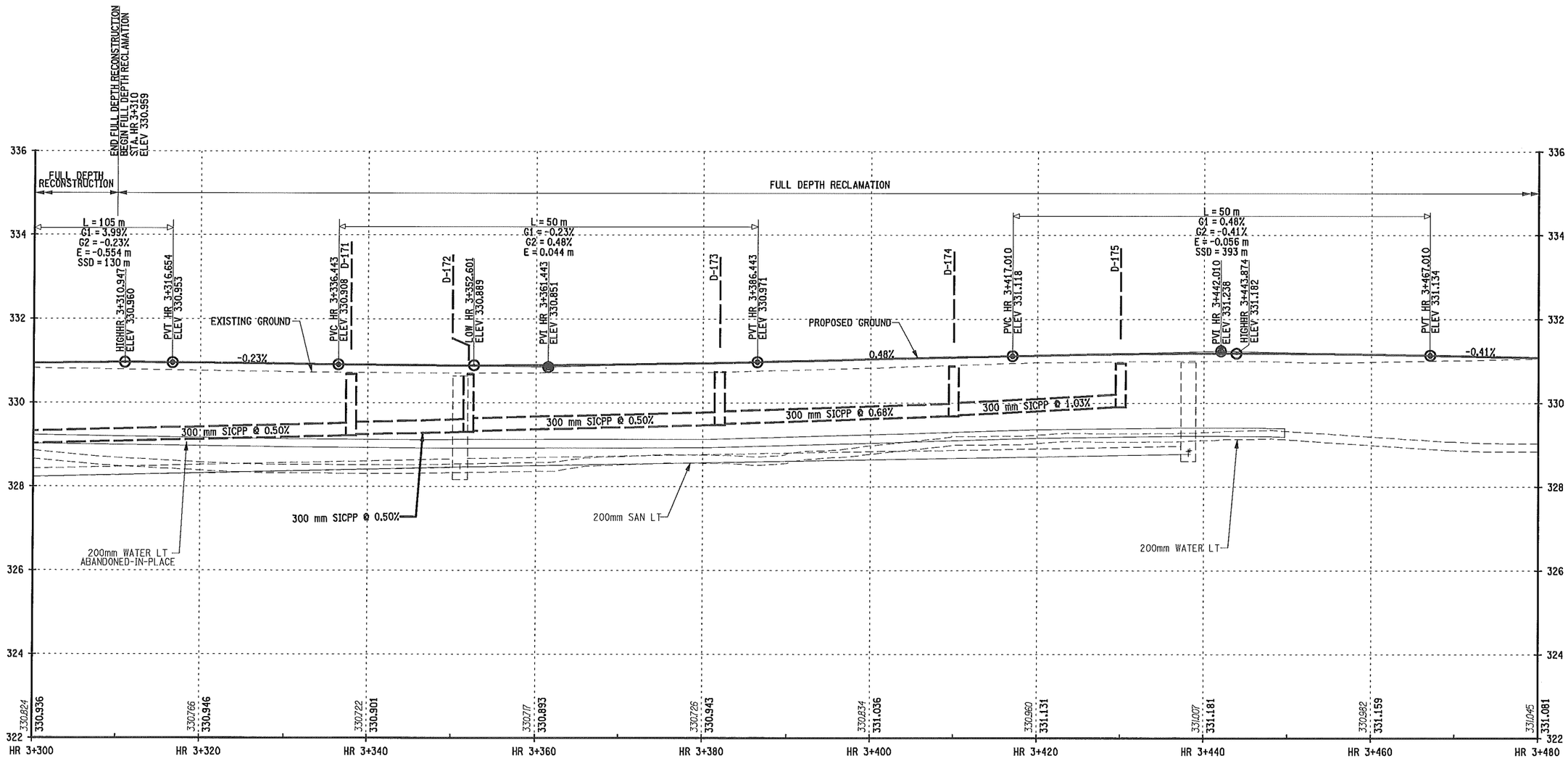
DRAWING NO. PR-13
SHEET NO. 72 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

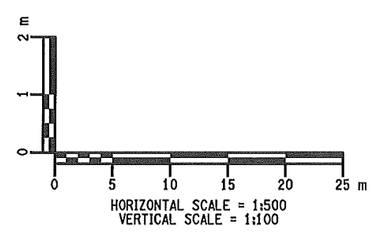
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

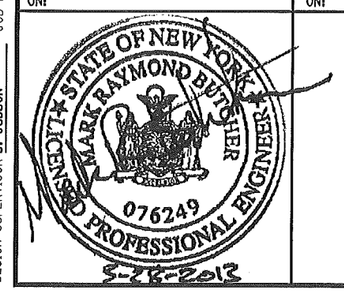
DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER



HANSHAW ROAD
NORMAL CROWN



PREPARED BY: ON:	ALTERED BY: ON:



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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 3+300 TO HR 3+480
PROFILE

FISHERASSOCIATES

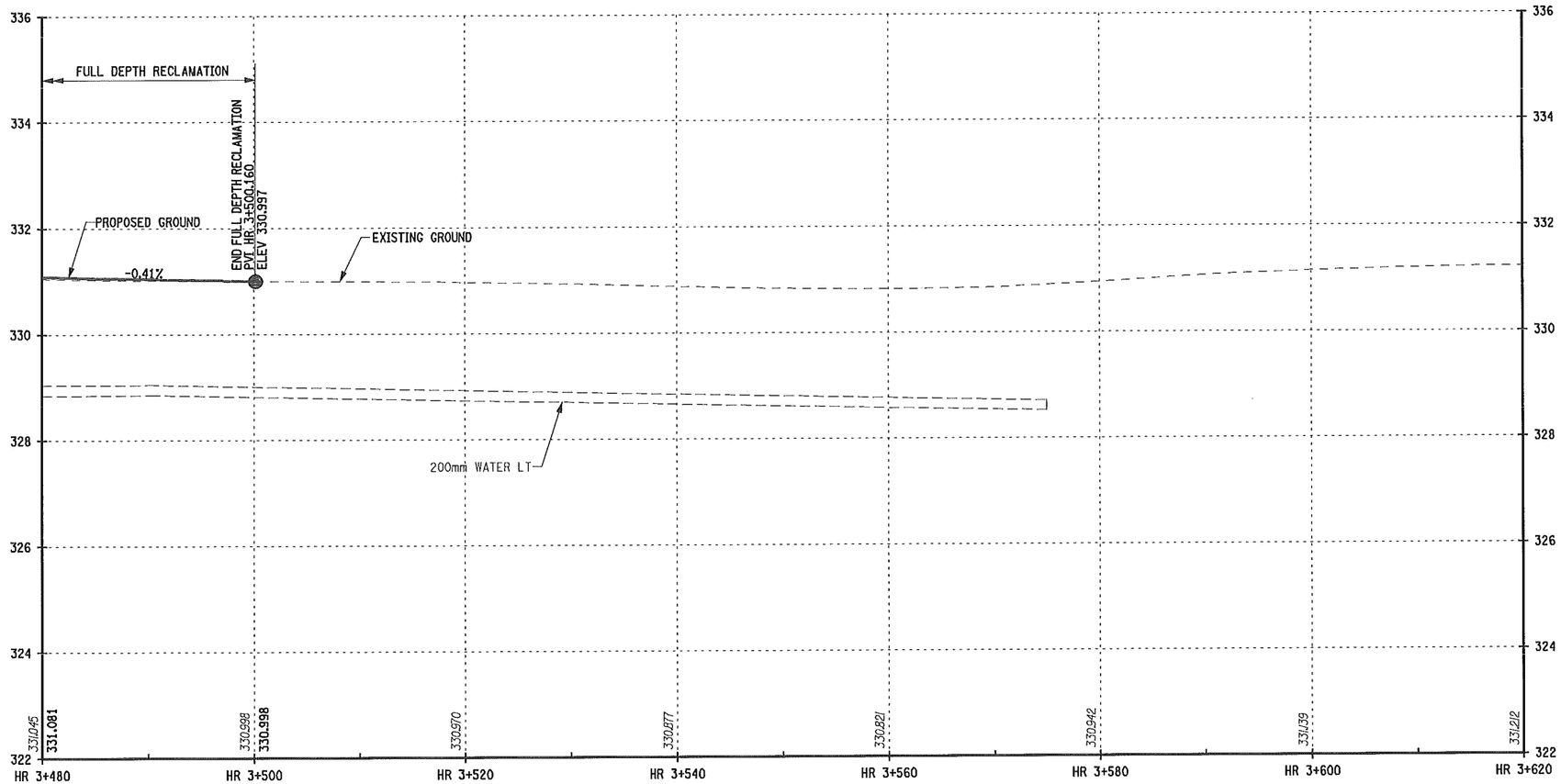
DRAWING NO. PR-14
SHEET NO. 73 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

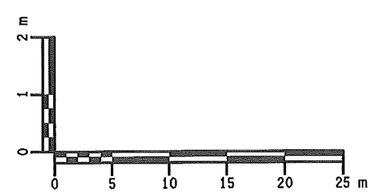
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$PEC
DATE/TIME = 5/14/2013
USER = MARKB



HANSHAW ROAD
NORMAL CROWN



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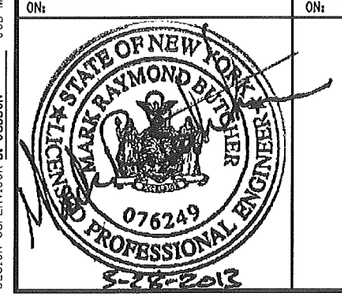
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:



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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: 375325A_PRO.DGN

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

HR 3+480 TO HR 3+620
PROFILE

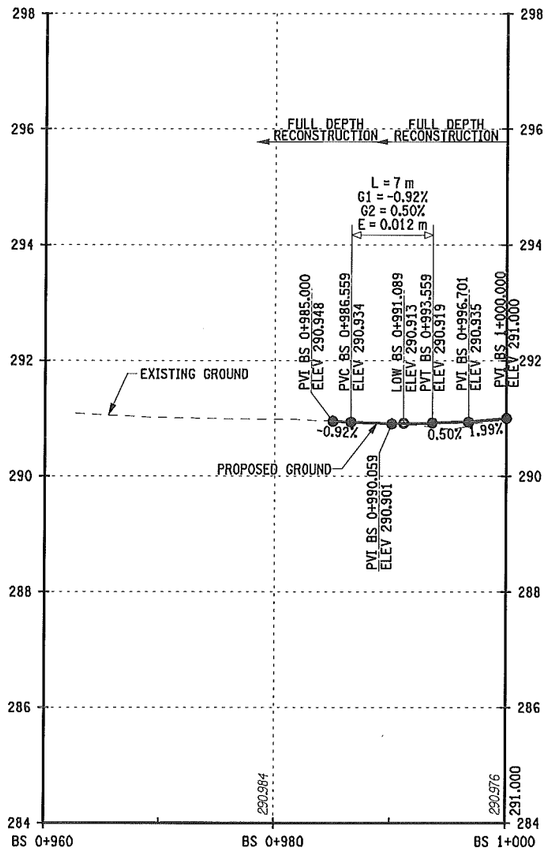
FISHERASSOCIATES

DRAWING NO. PR-15
SHEET NO. 74 OF 130

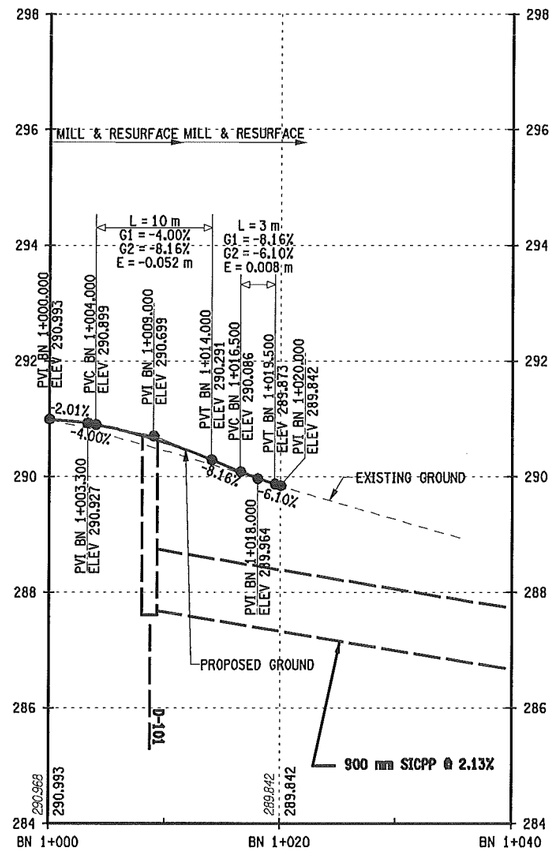
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



BLACKSTONE AVENUE



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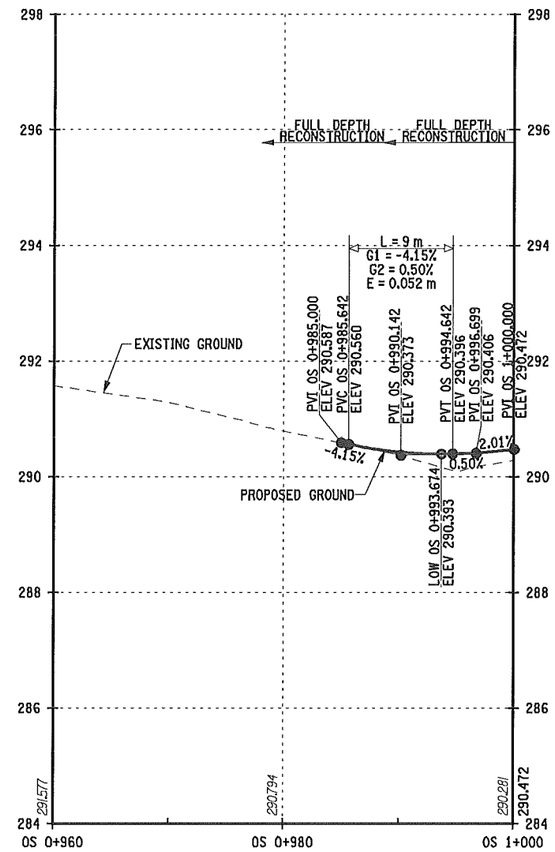

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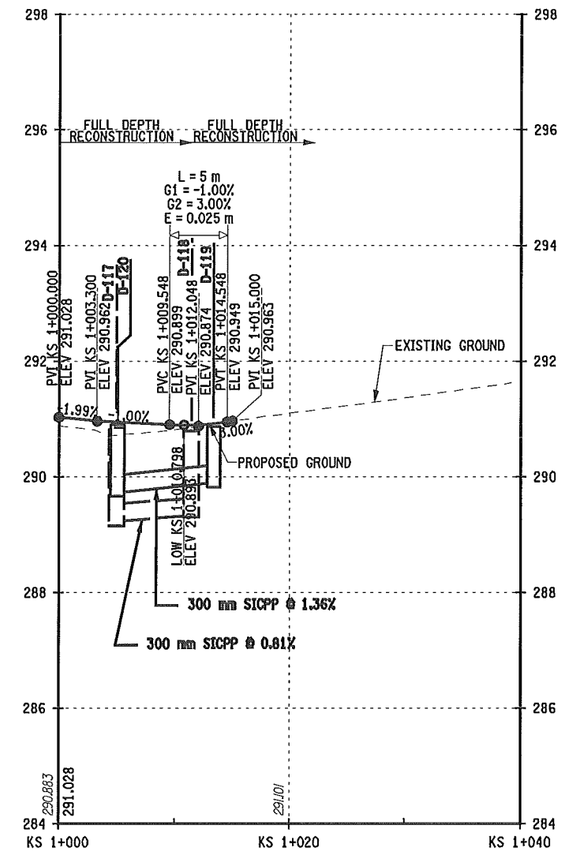
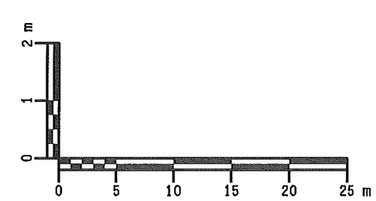


KAY STREET



HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIDE STREET PROFILE

FISHERASSOCIATES

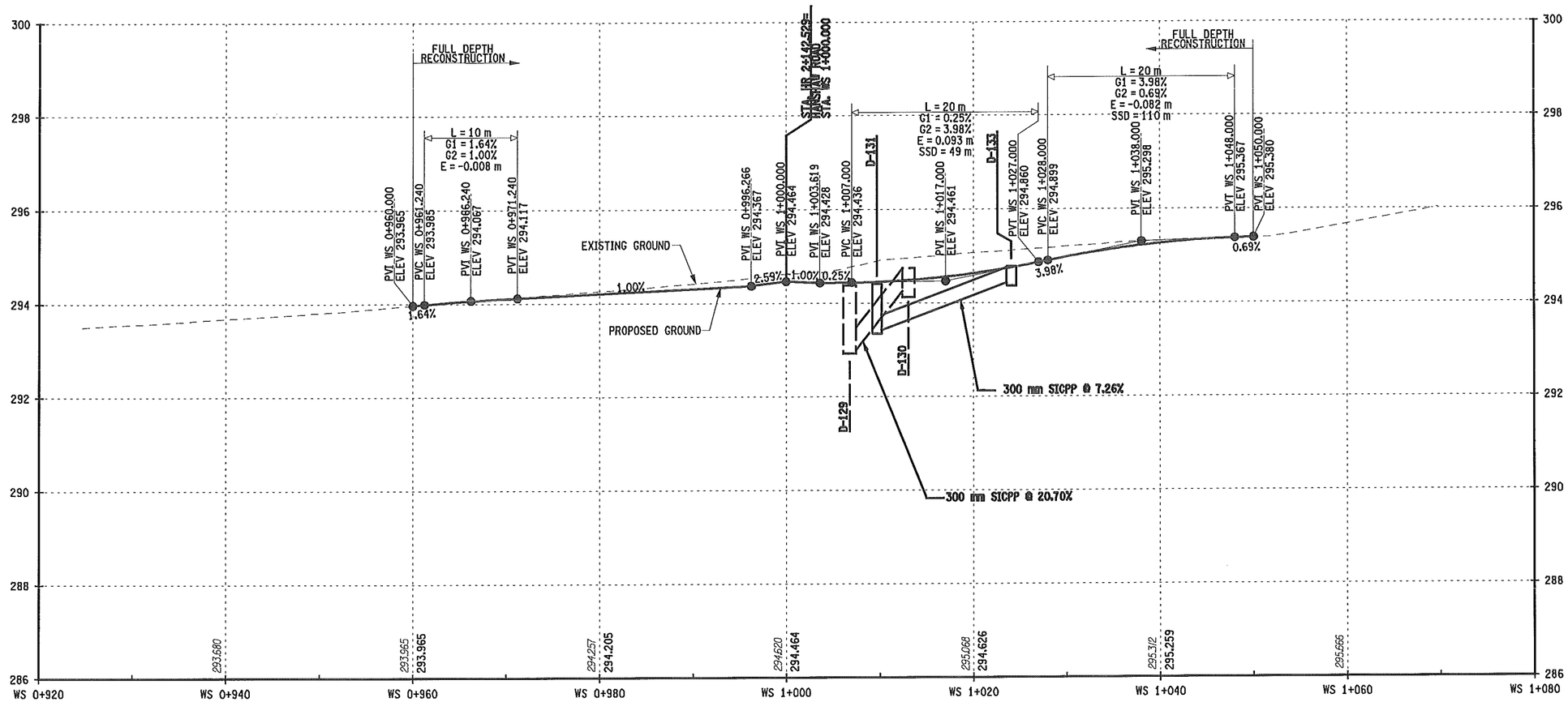
DRAWING NO. PR-16
SHEET NO. 75 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

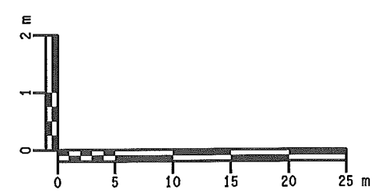
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



WARREN ROAD



HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:

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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

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SIDE STREET PROFILE

FISHER ASSOCIATES

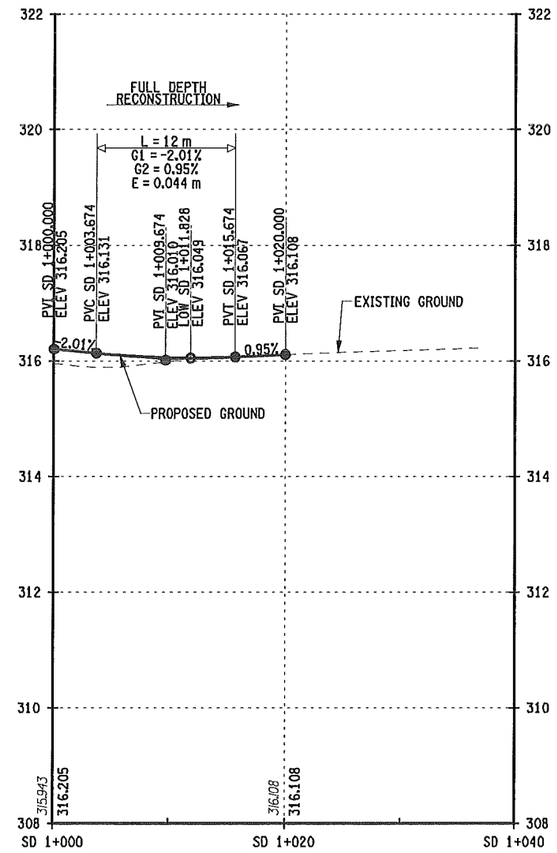
DRAWING NO. PR-17
SHEET NO. 76 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN#SPEC
DATE/TIME = 5/14/2013
USER = MARKB



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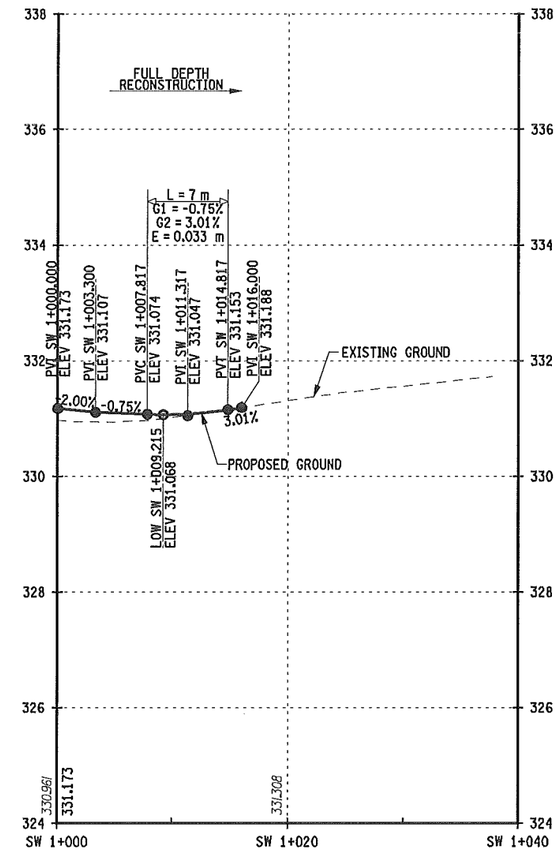
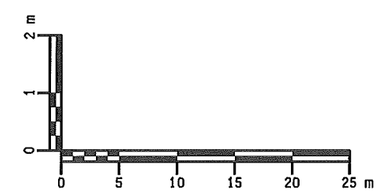


SAPSUCKER WOODS ROAD



HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIDE STREET PROFILE

FISHER ASSOCIATES

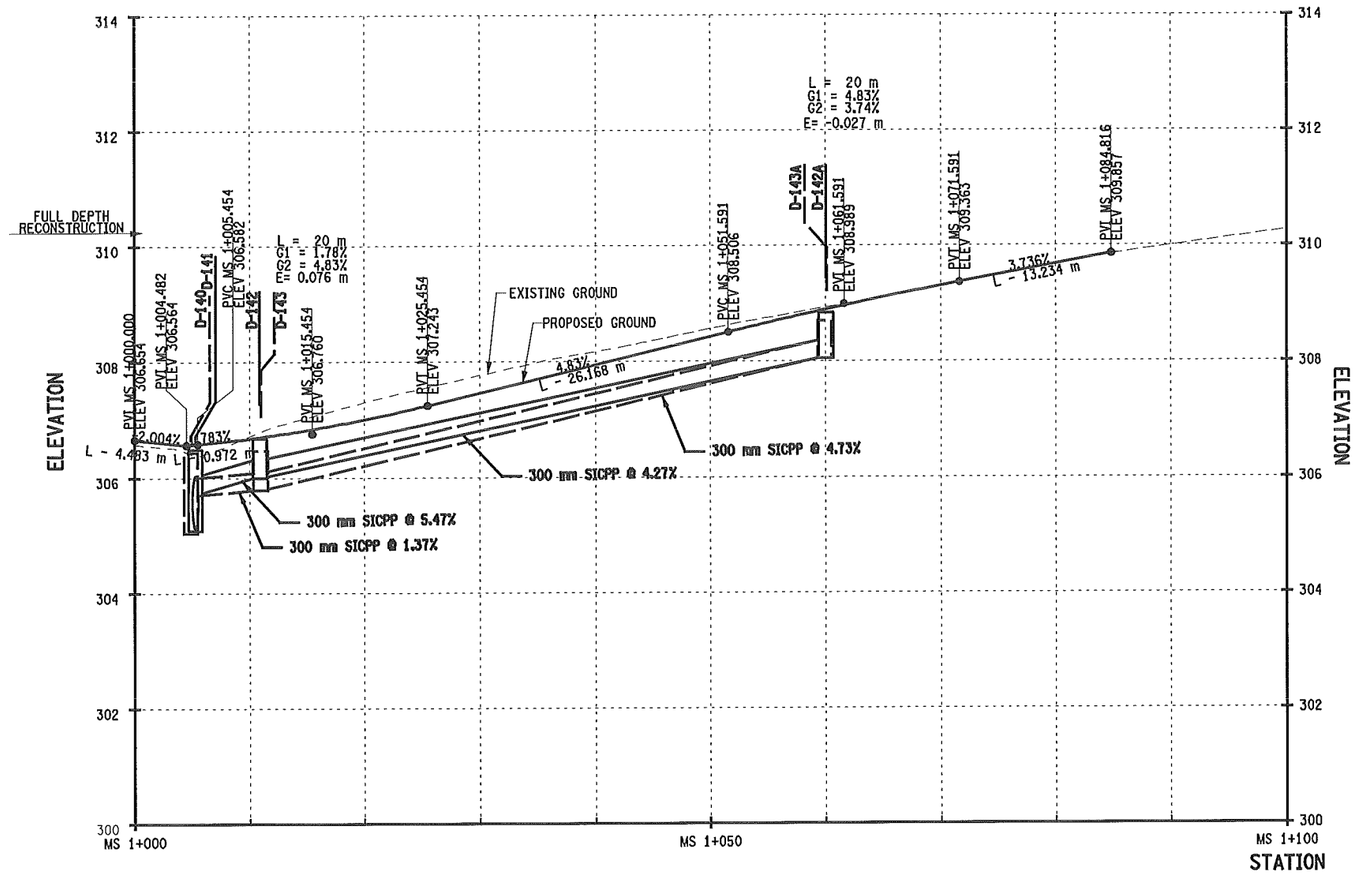
DRAWING NO. PR-18
SHEET NO. 77 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

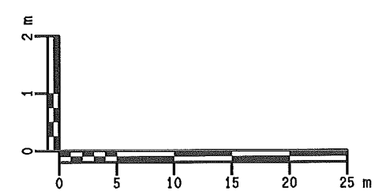
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



MURIEL STREET



HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

PREPARED BY: ON:	ALTERED BY: ON:

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STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-28-2013

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

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ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIDE STREET PROFILE

FISHER ASSOCIATES

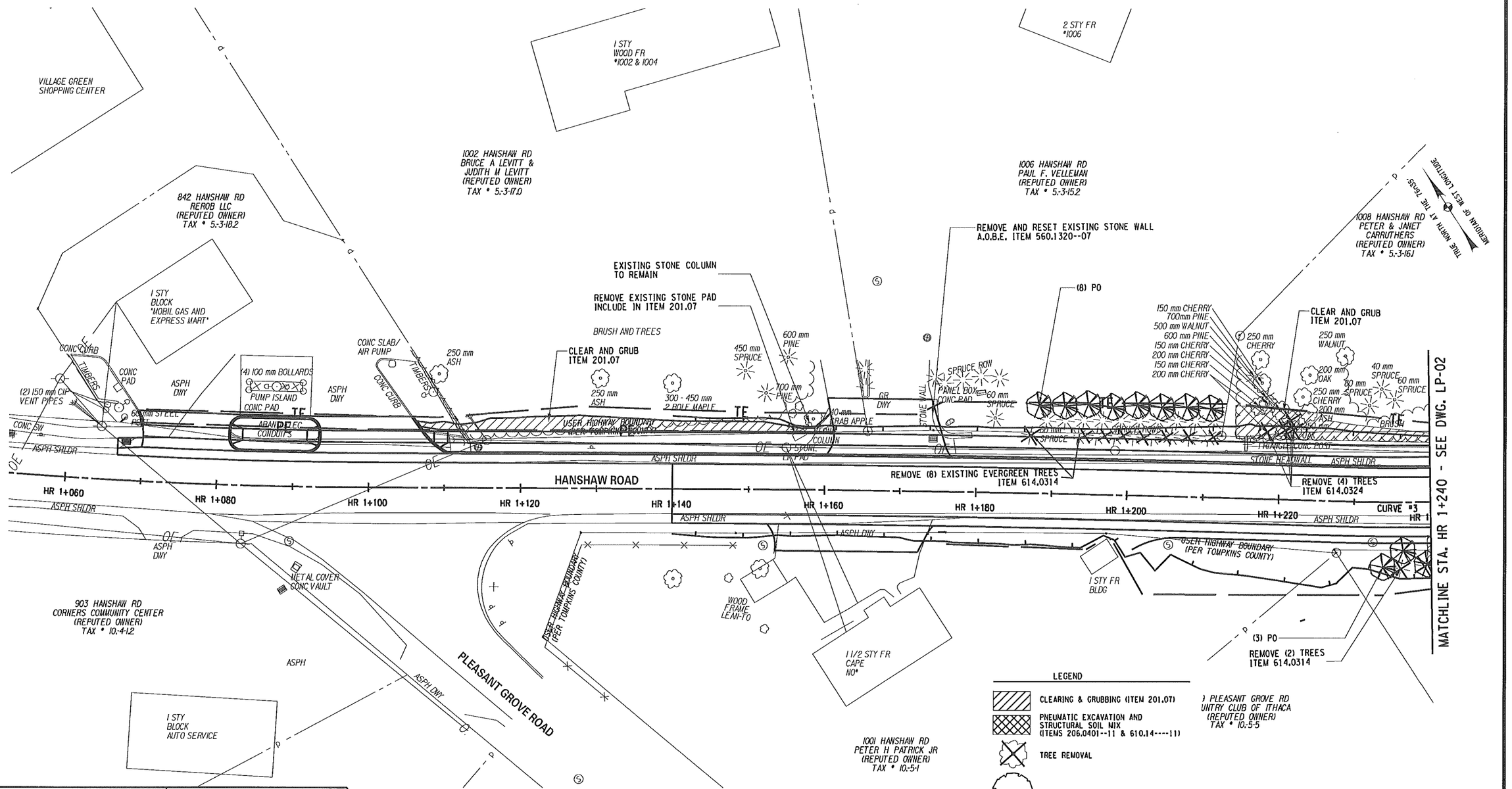
DRAWING NO. PR-19
SHEET NO. 78 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



LEGEND

- CLEARING & GRUBBING (ITEM 201.07)
- PNEUMATIC EXCAVATION AND STRUCTURAL SOIL MIX (ITEMS 206.0401--11 & 610.14----11)
- TREE REMOVAL
- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN TREE
- PROPOSED SHRUB

0 5 10 15 20 25 m
SCALE

PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

REGISTERED LANDSCAPE ARCHITECT
MARGOT DY CHIUTEN
001898
STATE OF NEW YORK

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SIGNATURE DATE

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COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

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LANDSCAPE PLANS

TWLA

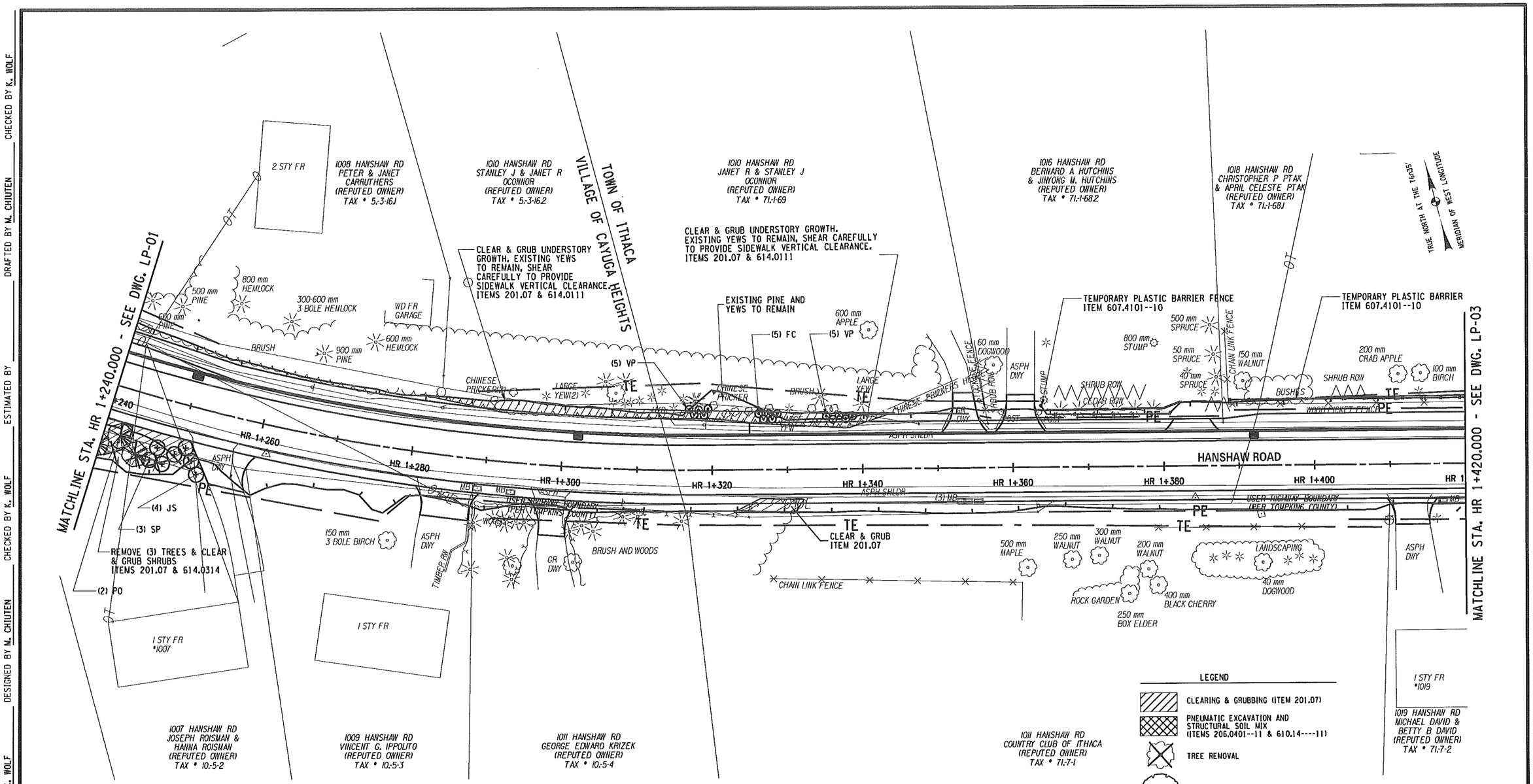
DRAWING NO. LP-1
SHEET NO. 79 OF 130

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_01.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR K. WOLF
JOB MANAGER K. WOLF
DESIGNED BY M. CHIUTEN
CHECKED BY K. WOLF
ESTIMATED BY
DRAFTED BY M. CHIUTEN
CHECKED BY K. WOLF

FILE NAME = FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_01.DGN
DATE/TIME = 12/7/2012 3:23:51 PM
USER = M. CHIUTEN



PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

REGISTERED LANDSCAPE ARCHITECT
MARGOT DY CHIUTEN
001898
STATE OF NEW YORK

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COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

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CULVERTS

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LANDSCAPE PLANS

TWLA

DRAWING NO. LP-2
SHEET NO. 80 OF 130

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_02.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR K. WOLF JOB MANAGER K. WOLF DESIGNED BY M. CHIUTEN CHECKED BY K. WOLF DRAFTED BY M. CHIUTEN ESTIMATED BY CHECKED BY K. WOLF

FILE NAME = FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_02.DGN
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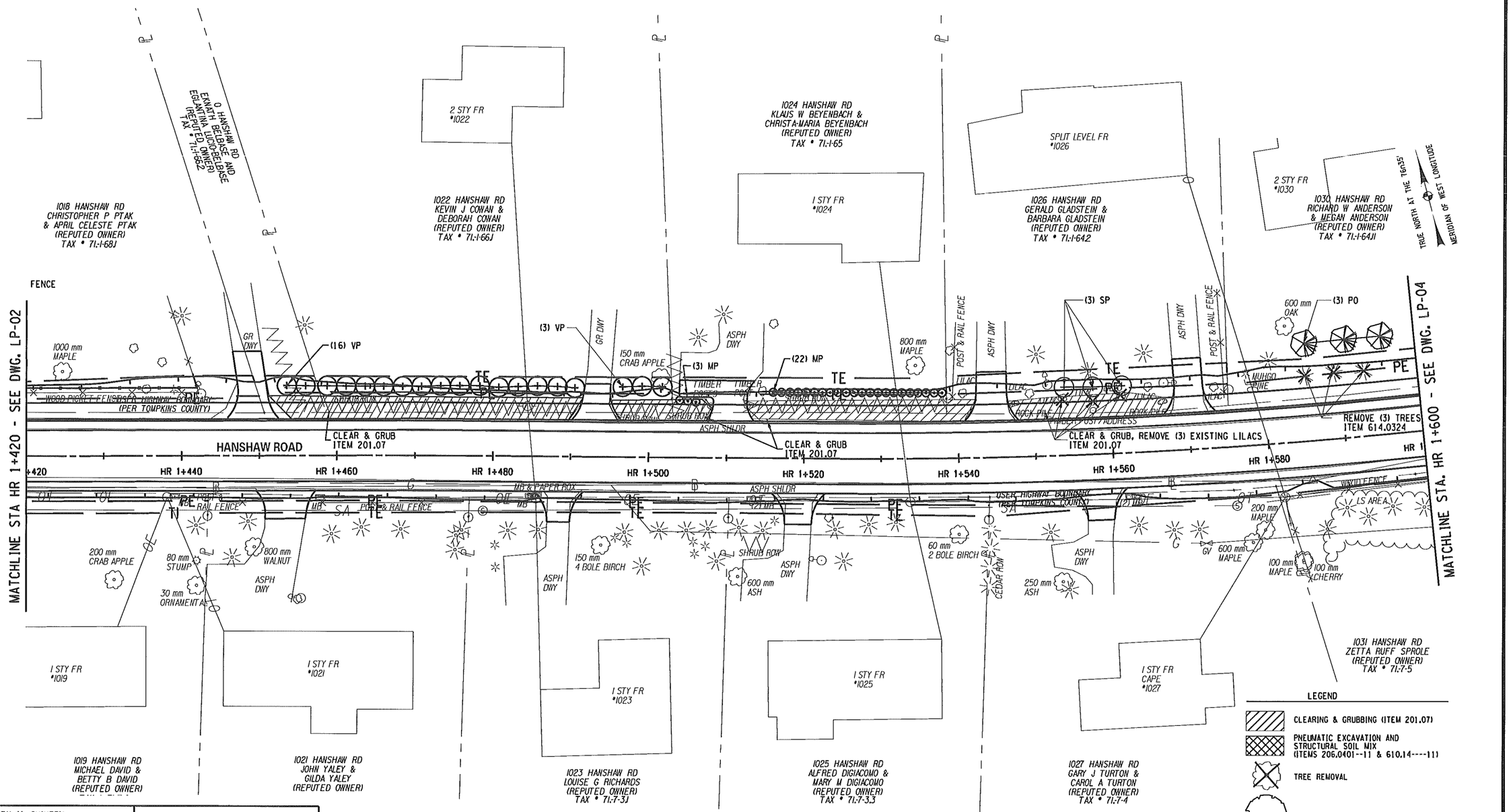
USER = M. CHIUTEN



PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

REGISTERED LANDSCAPE ARCHITECT
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COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

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LANDSCAPE PLANS

TWLA

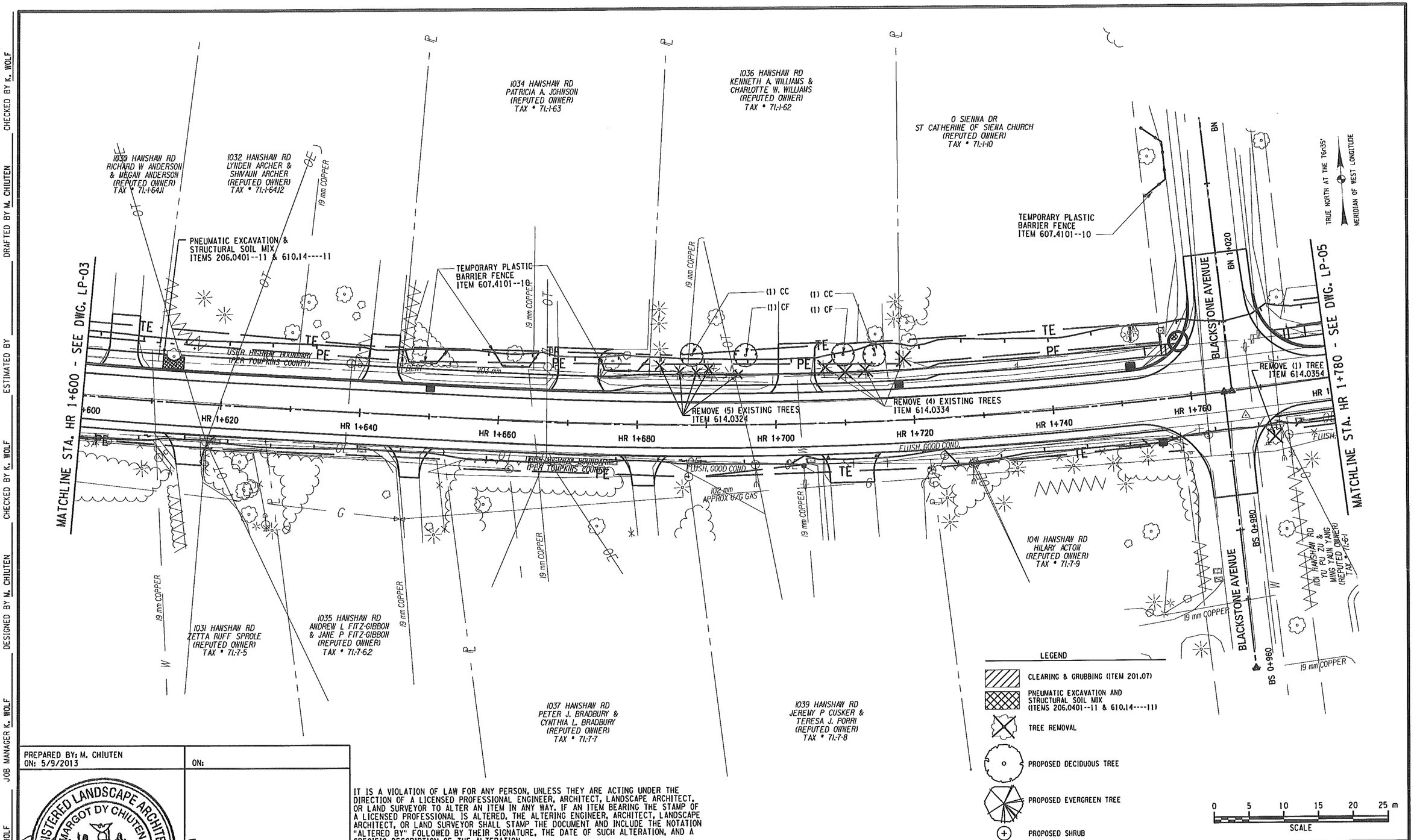
DRAWING NO. LP-3
SHEET NO. 81 OF 30

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_03.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_03.DGN
DATE/TIME = 12/7/2012 3:23:51 PM
USER = M. CHIUTEN

DESIGN SUPERVISOR K. WOLF JOB MANAGER K. WOLF DESIGNED BY M. CHIUTEN CHECKED BY K. WOLF DRAFTED BY M. CHIUTEN CHECKED BY K. WOLF ESTIMATED BY



PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

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MARGOT DY CHIUTEN
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STATE OF NEW YORK

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COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

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LANDSCAPE PLANS

TWLA

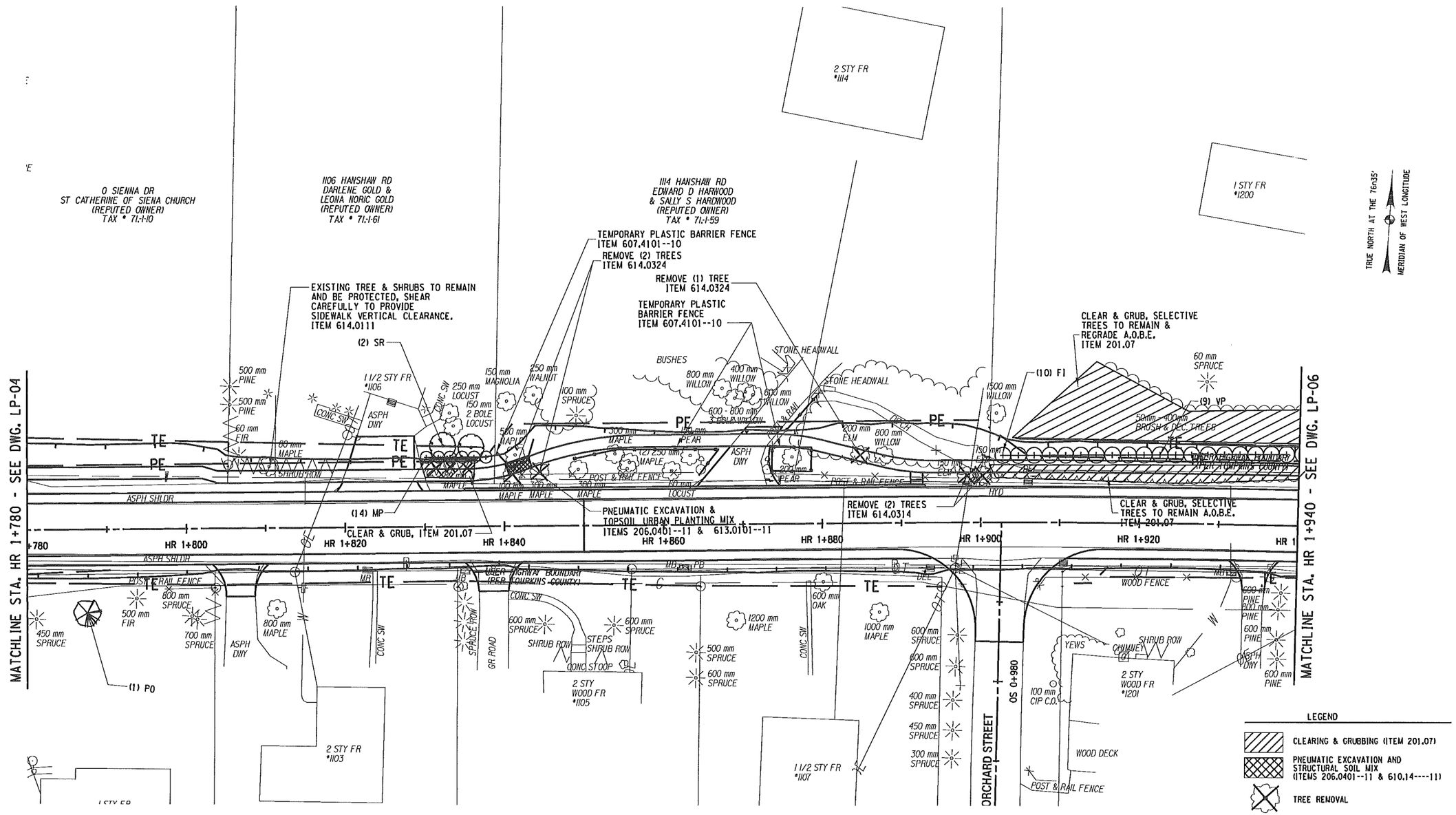
DRAWING NO. LP-4
SHEET NO. 82 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_04.DGN

FILE NAME = FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_04.DGN
DATE/TIME = 12/7/2012 3:23:51 PM
USER = M. CHIUTEN

DESIGN SUPERVISOR K. WOLF JOB MANAGER K. WOLF DESIGNED BY M. CHIUTEN CHECKED BY K. WOLF ESTIMATED BY DRAFTED BY M. CHIUTEN CHECKED BY K. WOLF



LEGEND

- CLEARING & GRUBBING (ITEM 201.07)
- PNEUMATIC EXCAVATION AND STRUCTURAL SOIL MIX (ITEMS 206.0401--11 & 610.14----11)
- TREE REMOVAL
- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN TREE
- PROPOSED SHRUB

0 5 10 15 20 25 m
SCALE

PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

REGISTERED LANDSCAPE ARCHITECT
MARGOT DY CHIUTEN
001898
STATE OF NEW YORK

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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

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LANDSCAPE PLANS

TWLA

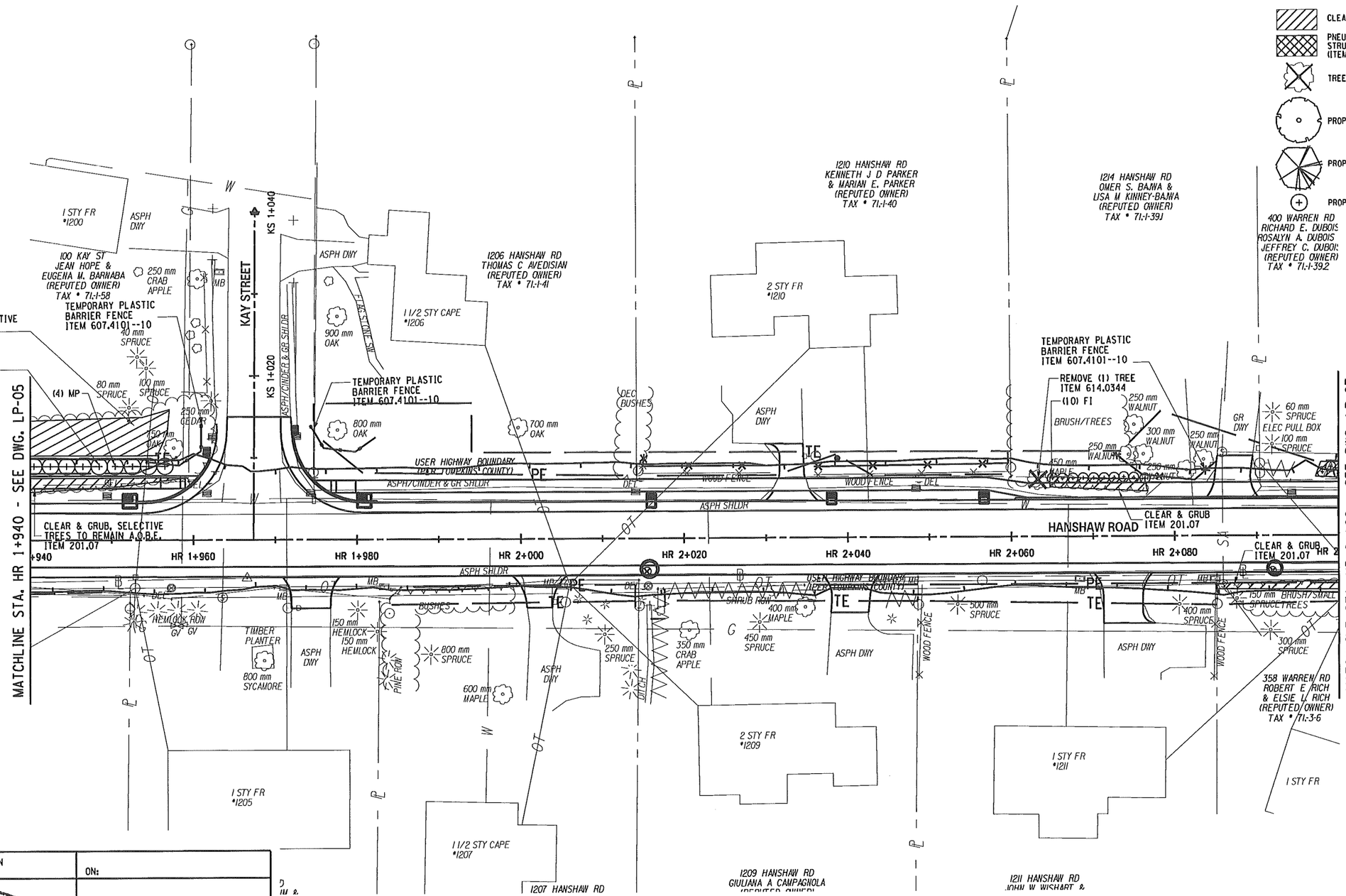
DRAWING NO. LP-5
SHEET NO. 83 OF 130

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_05.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_05.DGN
DATE/TIME = 12/7/2012 3:23:51 PM
USER = M. CHIUTEN

DESIGN SUPERVISOR K. WOLF JOB MANAGER K. WOLF DESIGNED BY M. CHIUTEN ESTIMATED BY CHECKED BY K. WOLF DRAFTED BY M. CHIUTEN CHECKED BY K. WOLF



PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

REGISTERED LANDSCAPE ARCHITECT
MARGOT DY CHIUTEN
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SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

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LANDSCAPE PLANS

TWLA

DRAWING NO. LP-6
SHEET NO. 84 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_06.DGN

DESIGN SUPERVISOR K. WOLF JOB MANAGER K. WOLF DESIGNED BY M. CHIUTEN CHECKED BY K. WOLF DRAFTED BY M. CHIUTEN ESTIMATED BY CHECKED BY K. WOLF

FILE NAME = FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_06.DGN
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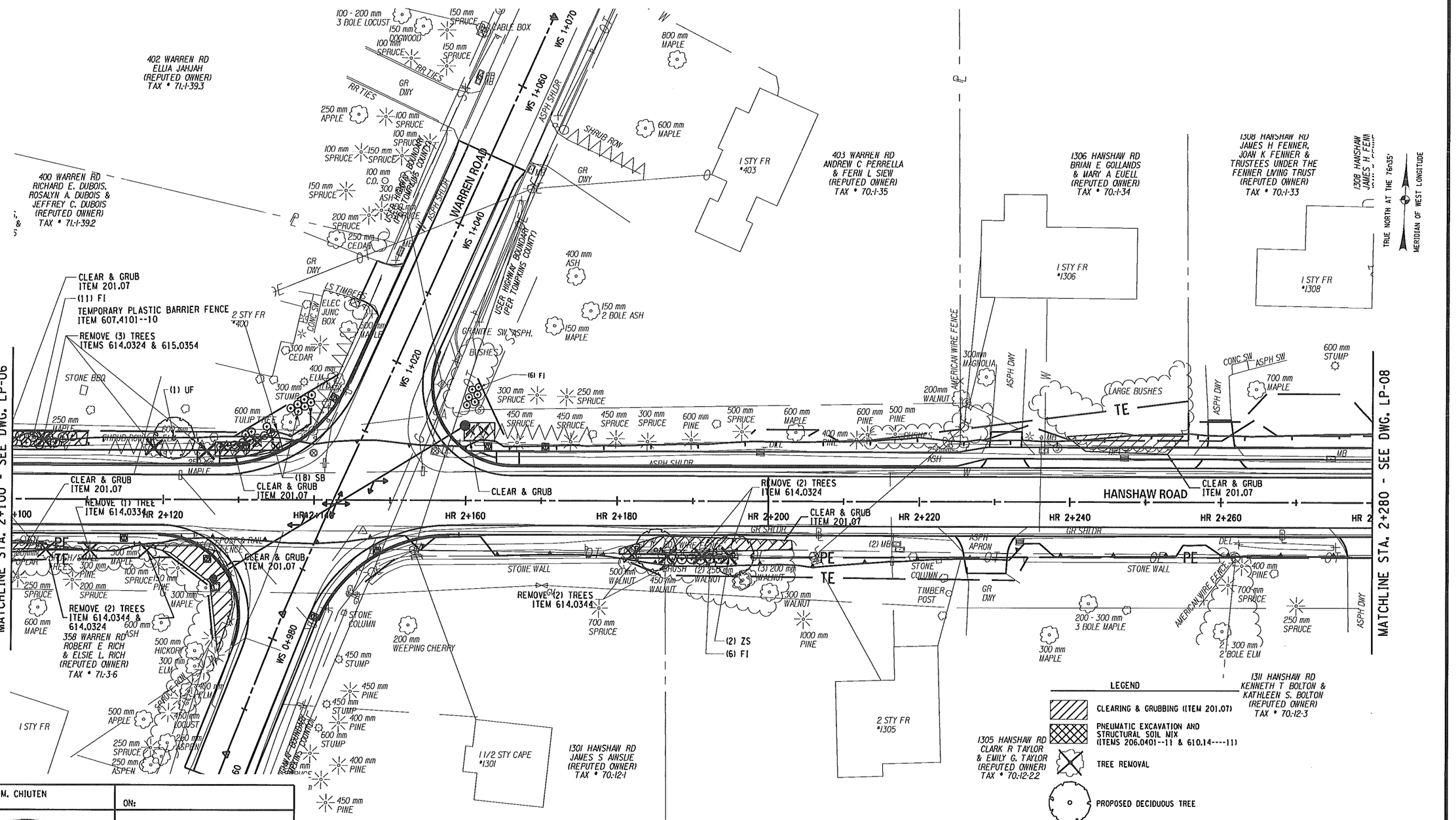

PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

REGISTERED LANDSCAPE ARCHITECT
MARGOT DY CHIUTEN
001898
STATE OF NEW YORK

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COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

LANDSCAPE PLANS

TWLA

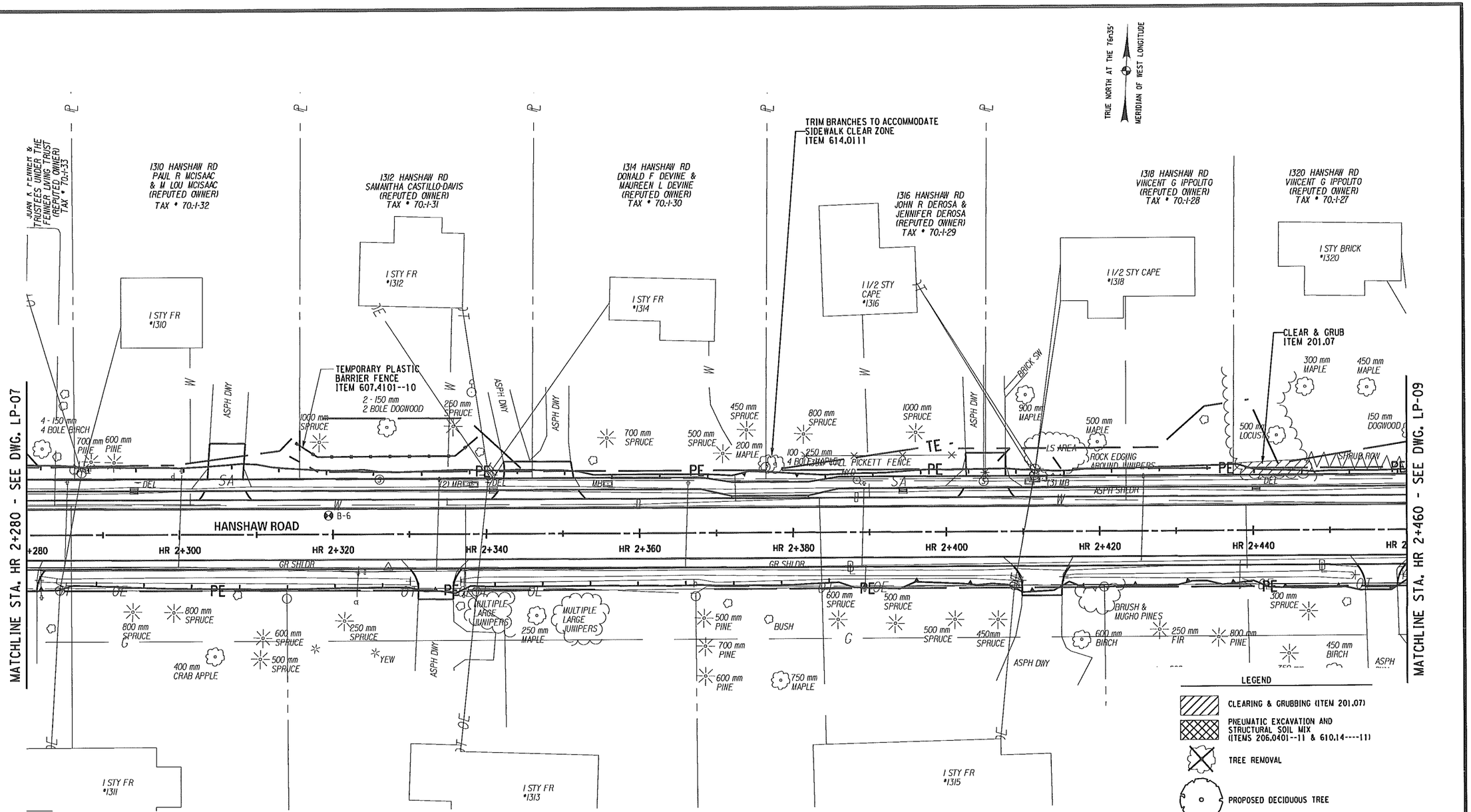
DRAWING NO. LP-7
SHEET NO. 85 OF 130

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_07.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_07.DGN
DATE/TIME = 12/7/2012 3:23:51 PM
USER = M. CHIUTEN

DESIGN SUPERVISOR K. WOLF JOB MANAGER K. WOLF DESIGNED BY M. CHIUTEN CHECKED BY K. WOLF ESTIMATED BY DRAFTED BY M. CHIUTEN CHECKED BY K. WOLF



PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

REGISTERED LANDSCAPE ARCHITECT
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COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

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LANDSCAPE PLANS

TWLA

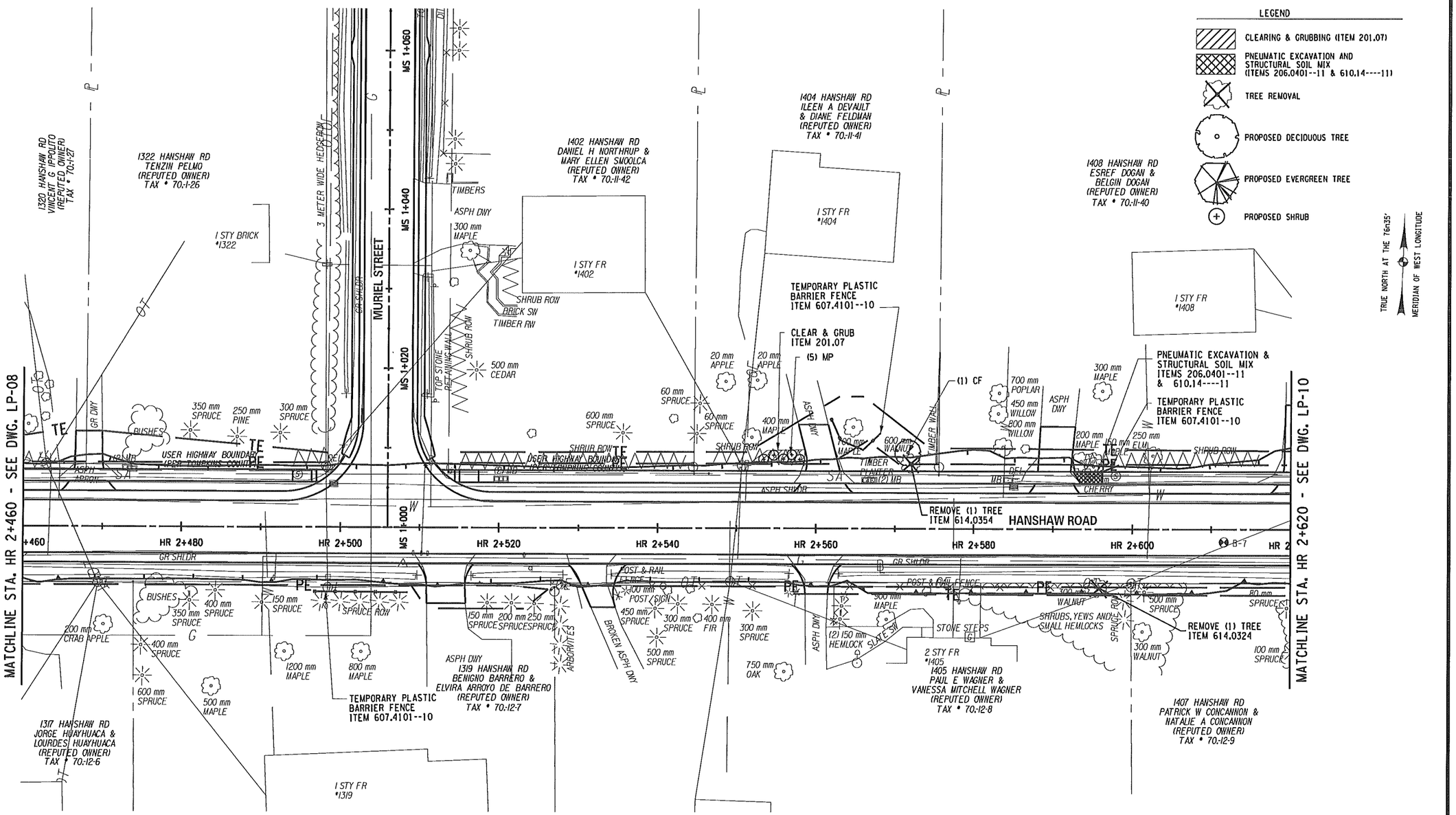
DRAWING NO. LP-8
SHEET NO. 86 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_08.DGN

FILE NAME = FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_08.DGN
DATE/TIME = 12/7/2012 3:23:51 PM
USER = M. CHIUTEN

DESIGN SUPERVISOR K. WOLF JOB MANAGER K. WOLF DESIGNED BY M. CHIUTEN CHECKED BY K. WOLF ESTIMATED BY DRAFTED BY M. CHIUTEN CHECKED BY K. WOLF



PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

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TWLA

DRAWING NO. LP-9
SHEET NO. 87 OF 130

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_09.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR K. WOLF JOB MANAGER K. WOLF DESIGNED BY M. CHIUTEN CHECKED BY K. WOLF ESTIMATED BY DRAFTED BY M. CHIUTEN CHECKED BY K. WOLF

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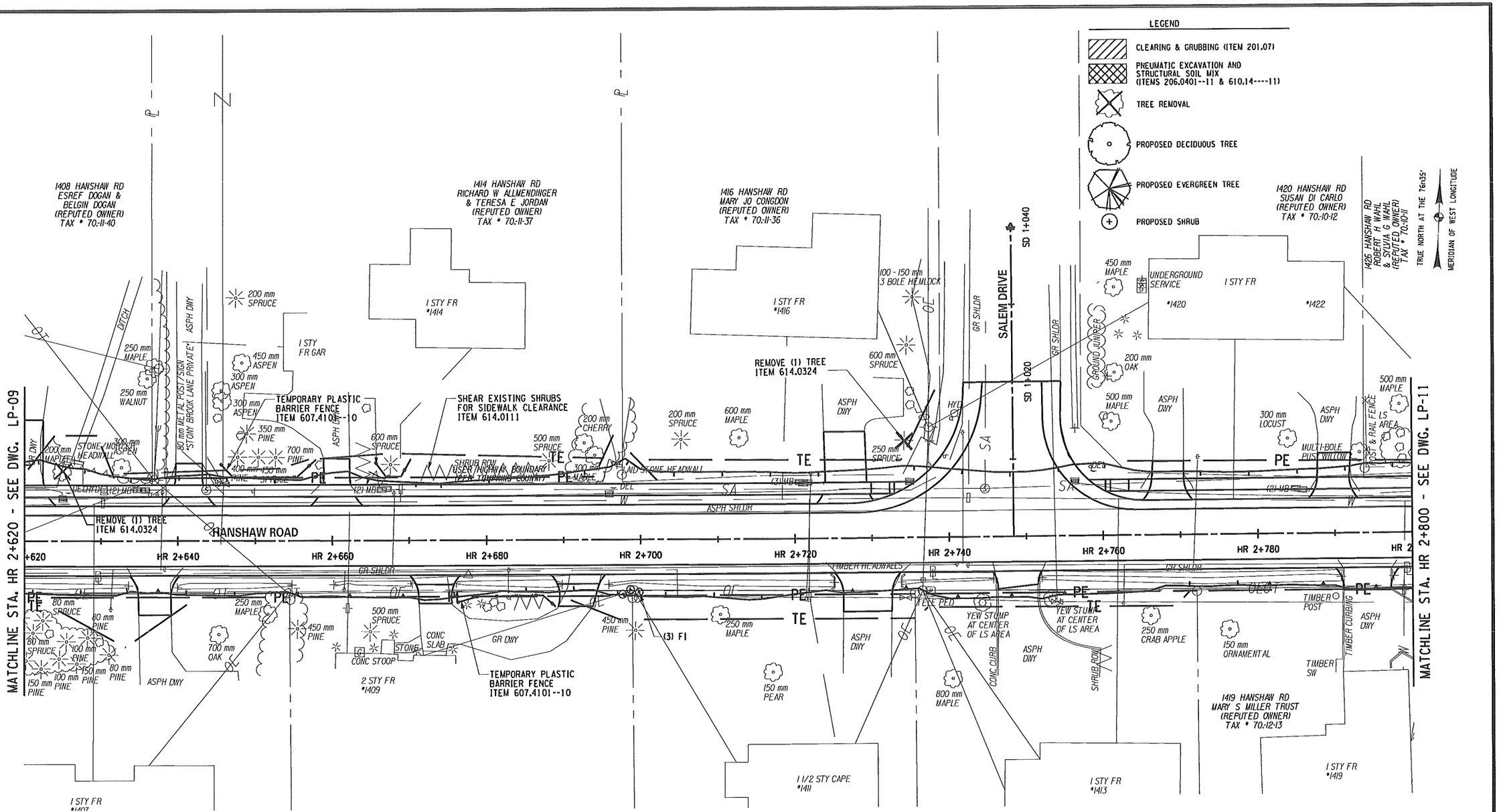

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ESTIMATED BY
DESIGNED BY M. CHIUTEN CHECKED BY K. WOLF
JOB MANAGER K. WOLF
DESIGN SUPERVISOR K. WOLF

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PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

REGISTERED LANDSCAPE ARCHITECT
MARGOT DY CHIUTEN
001898
STATE OF NEW YORK

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

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LANDSCAPE PLANS

TWLA

DRAWING NO. LP-10
SHEET NO. 88 OF 130

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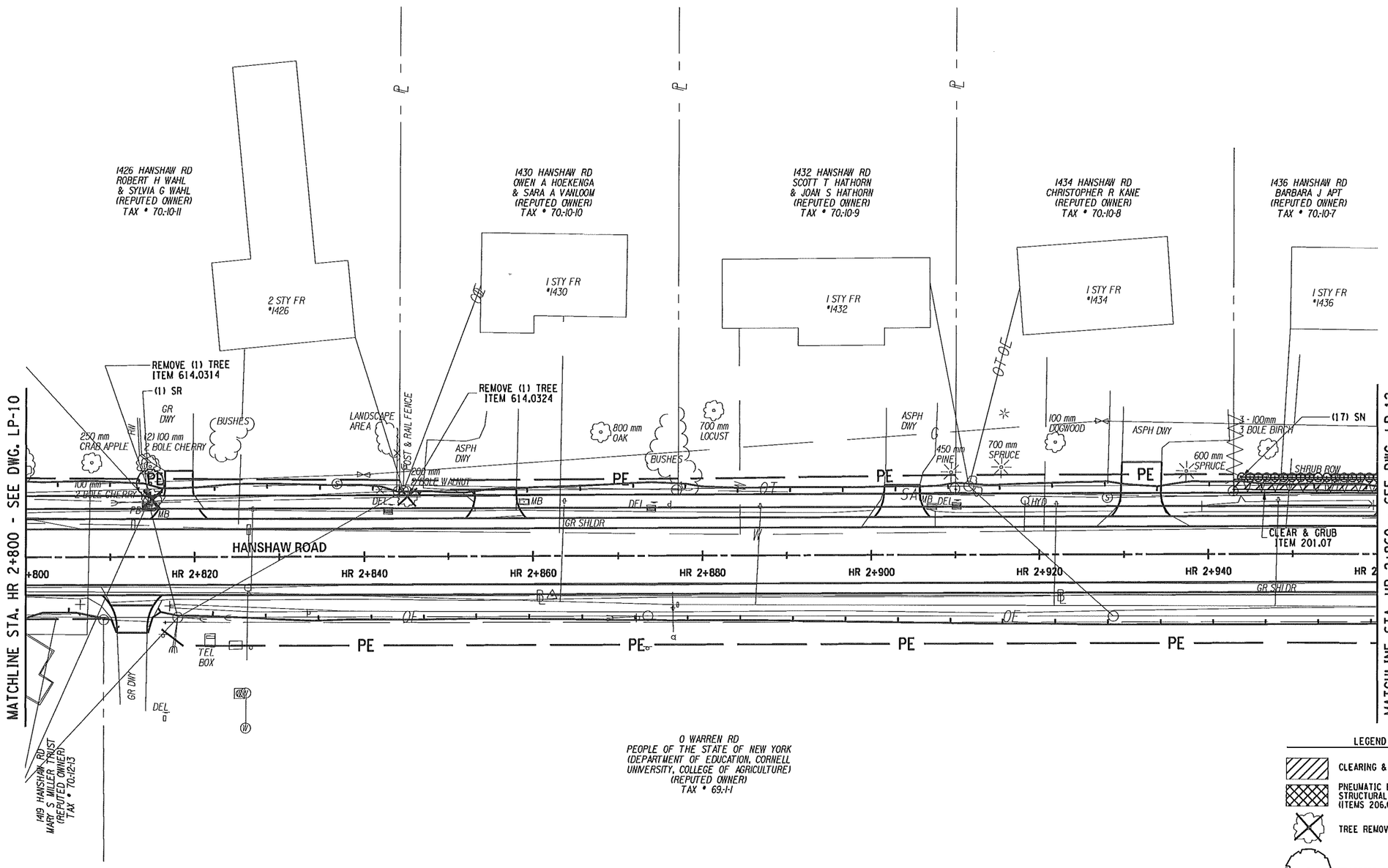

LEGEND

- CLEARING & GRUBBING (ITEM 201.07)
- PNEUMATIC EXCAVATION AND STRUCTURAL SOIL MIX (ITEMS 206.0401--11 & 610.14----11)
- TREE REMOVAL
- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN TREE
- PROPOSED SHRUB

0 5 10 15 20 25 m
SCALE

PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

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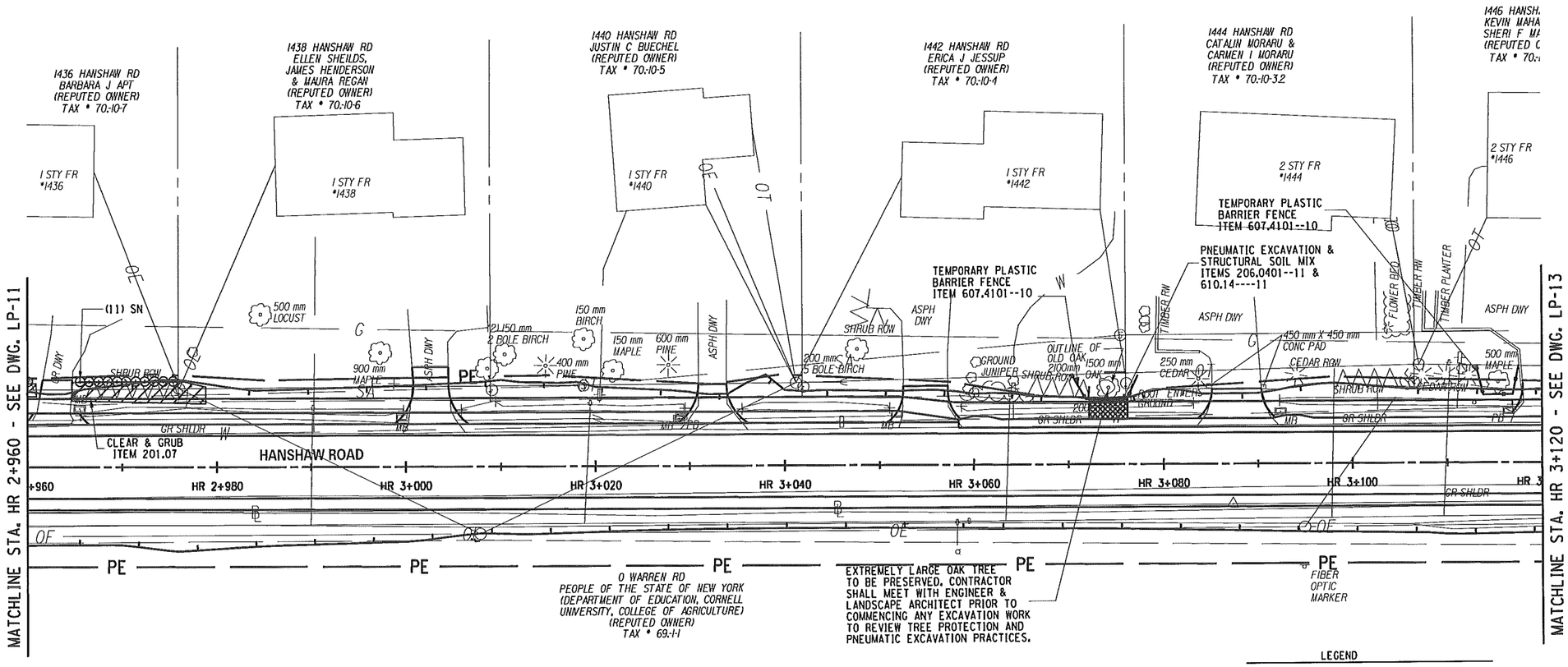

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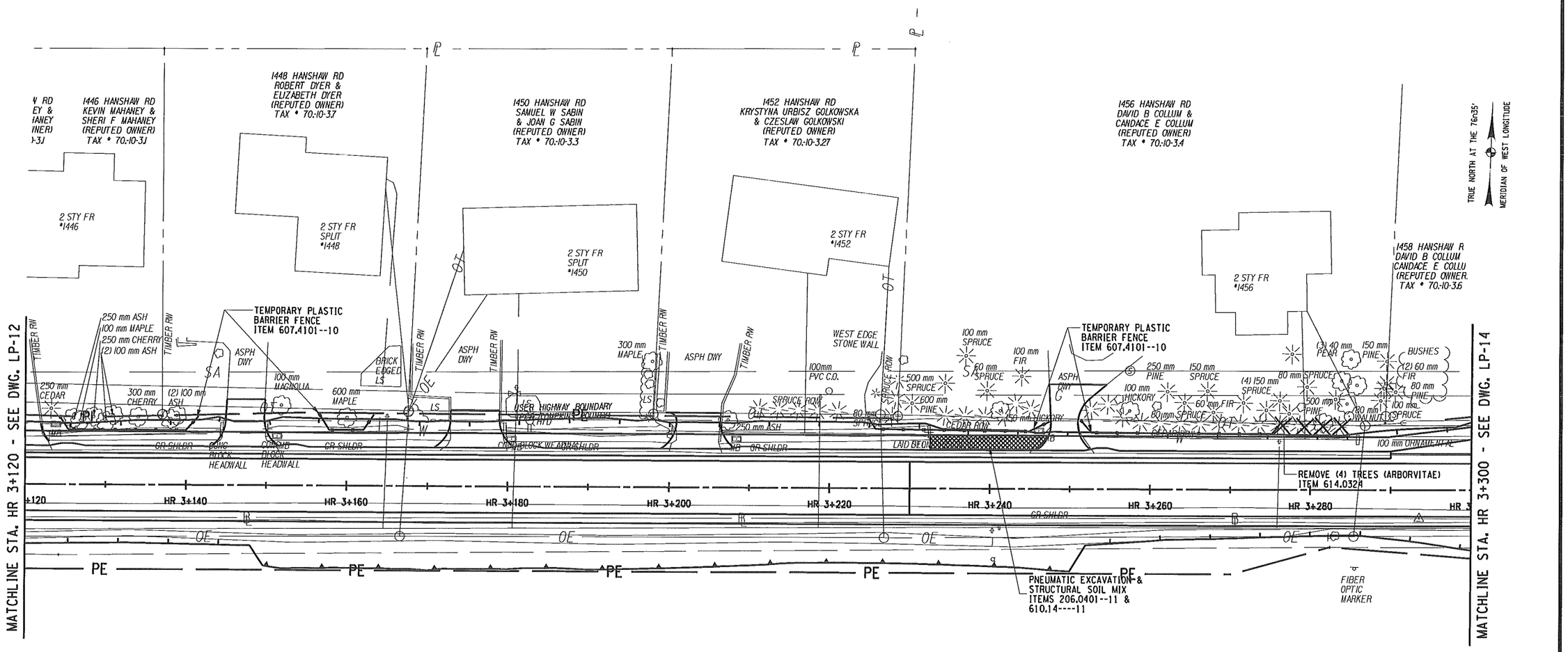

O WARREN RD
PEOPLE OF THE STATE OF NEW YORK
(DEPARTMENT OF EDUCATION, CORNELL
UNIVERSITY, COLLEGE OF AGRICULTURE)
(REPUTED OWNER)
TAX # 69.-1-1

LEGEND

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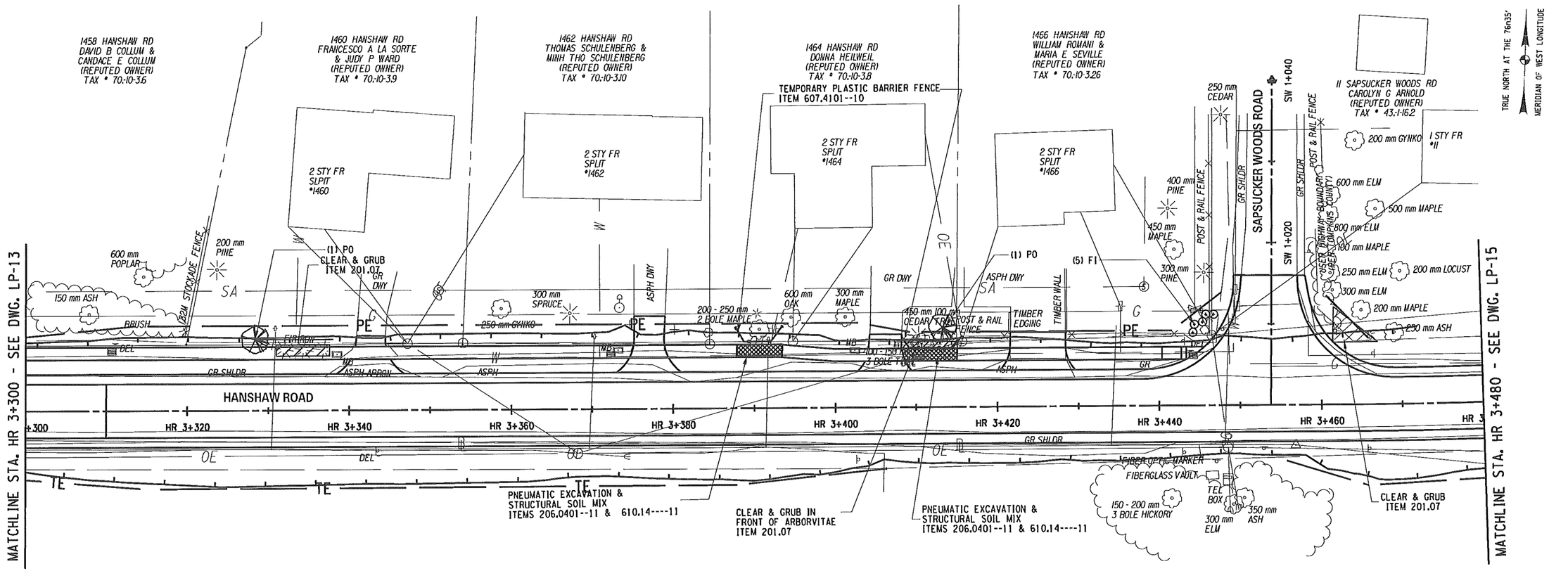

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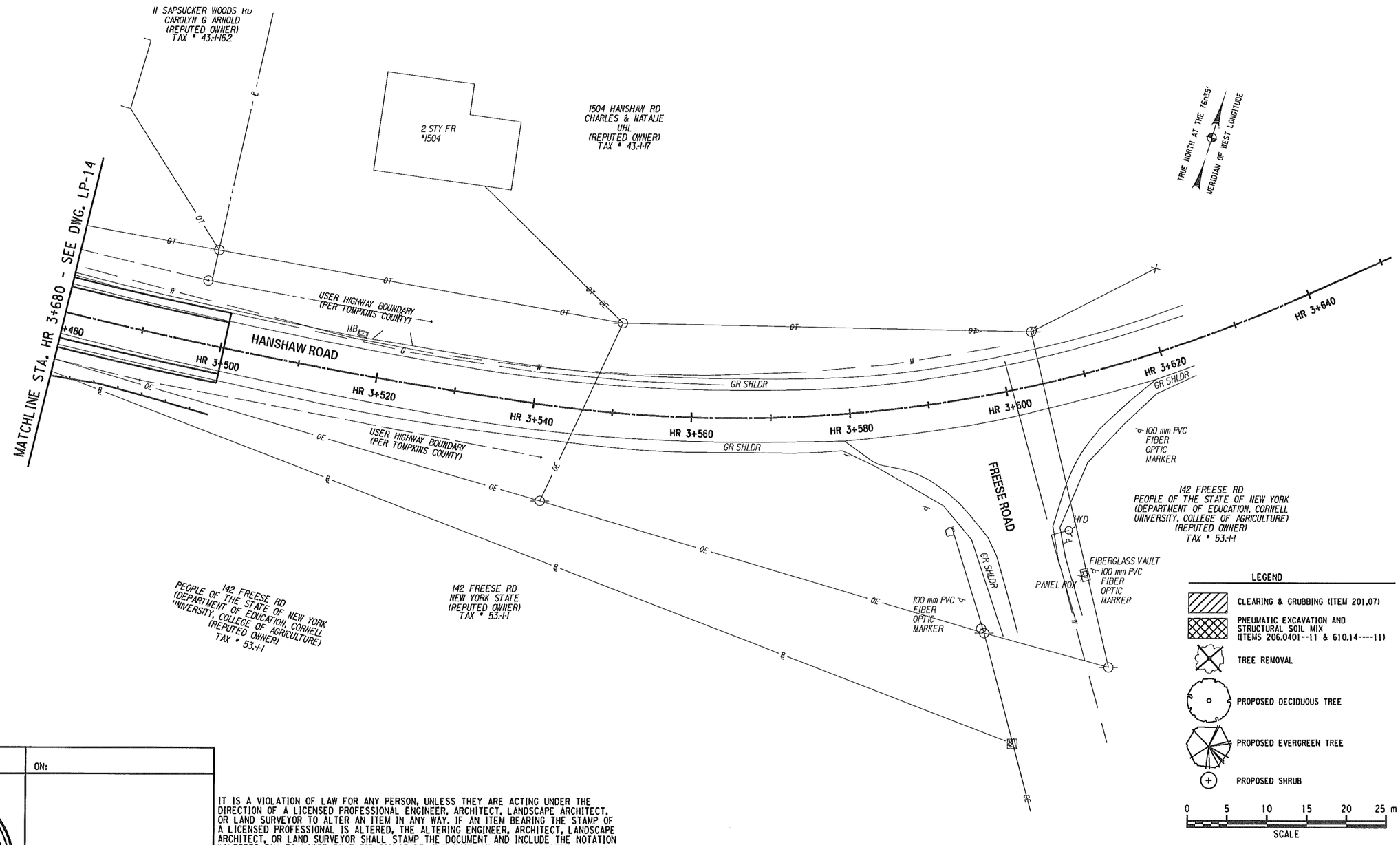

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Plant List							
Item No.	Quantity	Symbol	Scientific Name	Common Name	Size	Root	Comments
Major Deciduous Trees							
611.010113	1	UF	Ulmus 'Frontier'	Frontier elm	2.5" cal.	B&B	Heavy
611.010115	2	ZS	Zelkova serrata 'Schmidtlow'	Wireless zelkova	2" cal.	B&B	Spring planting only
Minor Deciduous Trees							
613.020113	2	CC	Cercis canadensis	Eastern Redbud	2.5" cal.	B&B	Heavy
613.020113	3	CF	Cornus x rutgan 'Celestial'	Celestial Hybrid Flowering Dogwood	2" cal.	B&B	Heavy
613.020113	3	SR	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese tree lilac	2" cal.	B&B	Heavy
Evergreen Trees							
613.030113	19	PO	Picea omorika	Serbian Spruce	5' HT.	B&B	Heavy
Deciduous Shrubs							
611.040112	5	FC	Forsythia x 'Courtasol'	Gold Tide forsythia	#5	Cont.	Heavy
611.040112	46	FI	Forsythia x intermedia 'Lynwood Gold'	Lynwood Gold Forsythia	#5	Cont.	Heavy
611.040112	48	MP	Myrica pensylvanica	Bayberry	#5	Cont.	Heavy
611.040112	18	SB	Spiraea bumalda 'Goldflame'	Goldflame spirea	#5	Cont.	Heavy
611.040112	28	SN	Spiraea nipponica 'Snowmound'	Snowmound spirea	#5	Cont.	Heavy
611.040112	6	SP	Syringa patula 'Miss Kim'	Miss Kim lilac	#5	Cont.	Heavy
611.040112	38	VP	Viburnum plicatum var. tomentosum	Doublefile viburnum	#5	Cont.	Heavy
Evergreen Shrubs							
611.050113	4	JS	Juniperus chinensis 'Sargentii'	Sargent Chinese juniper	#5	Cont.	Heavy

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ITEM 611 PLANTING

1. PLANTING MATERIALS

PLANTS: COMPLY WITH ANSI Z60.1

- ALL PLANT MATERIAL (INCLUDING SEEDS) SPECIFIED ON THIS PROJECT SHALL BE GROWN AND OBTAINED FROM A SOURCE WITHIN 250 MILES OF THE PROJECT LOCATION, UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT.

TOPSOIL: 713-01. PH 5.5 TO 7.0, 4% MIN. ORGANIC CONTENT.

COMPOST: 50-60% MIN. ORGANIC CONTENT, SALINITY <4.0 mmHOS/CM, PH 5.5 TO 7.5.

SAND:

U.S. SIEVE #	% PASS MIN.	% PASS MAX.
4	100	
8	90	100
16	80	100
30	25	60
50	0	25
100	0	5
270	0	3

TREE GUYING: SYNTHETIC STRAPS MAY BE USED IN PLACE OF HOSE AND WIRES, AS APPROVED.

MULCH: AS APPROVED.

WRAPPING: BLACK VINYL HARDWARE CLOTH, FOR DEER PROTECTION.

PLANTING SOIL: FOR ALL PLANTING BEDS AND PLANT PITS: AMENDED APPROVED TOPSOIL. 1 PART TOPSOIL MIXED IN BULK WITH 1 PART APPROVED COMPOST AND 1 PART COARSE SAND. ALL COMPONENTS SHALL BE TESTED AND SUBMITTALS MADE FOR APPROVAL PRIOR TO MIXING AND PLACEMENT.

FERTILIZER: 713-03, TYPE NO. 3 (10-6-4) OR TYPE 8 (BONEMEAL)

2. PLANTING SEASONS

	DECIDUOUS	CONIFEROUS
SPRING:	MARCH 20 TO MAY 20	MARCH 20 TO MAY 20
FALL:	OCTOBER 1 TO DECEMBER 1	AUGUST 20 TO OCTOBER 15

3. ALL TREE PITS SHALL BE EXCAVATED THREE (3) TIMES THE DIAMETER OF THE SPECIFIED ROOT BALL DIAMETER AS MEASURED AT FINISHED GRADE ELEVATION, UNLESS OTHERWISE SPECIFIED.

4. ALL PLANTING BEDS SHALL BE ENTIRELY EXCAVATED TO THE FULL EXTENT SHOWN, TO A MINIMUM DEPTH OF 610 MM AND BACKFILLED WITH PLANTING SOIL AS SPECIFIED IN THE CONTRACT DOCUMENTS.

   ALL SHRUB HEDGE PLANTING PITS SHALL BE EXCAVATED AS A CONTINUOUS TRENCH 1.22m WIDE MINIMUM, 610 mm DEPTH MINIMUM, AND BACKFILLED WITH PLANTING SOIL.

5. ALL APPROVED TOPSOIL FOR ALL TREES, SHRUBS AND PERENNIALS SHALL BE AMENDED WITH APPROVED COMPOST IN THE FOLLOWING RATIO: THREE (3) PARTS APPROVED TOPSOIL TO ONE (1) PART APPROVED COMPOST. APPROVED COMPOST SHALL BE PAID FOR UNDER ITEM 610.10.

   PLANTING SOIL SHALL BE MIXED IN BULK PRIOR TO PLACEMENT, BY ANY METHOD THAT DOES NOT COMPACT THE SOIL. PLANTING SOIL SHALL BE LOOSE AND FRIABLE PRIOR TO PLANTING. NO IN-PLACE COMPACTION WILL BE ALLOWED. THE COST OF MIXING TOPSOIL SHALL BE INCLUDED IN ITEM 610.1404.

6. PROVIDE 100 MM MULCH ON ALL TREE AND SHRUB AREAS. CONTRACTOR SHALL PROVIDE SPADED EDGES ALONG ALL BED EDGES AND TREE PITS.

7. AN EQUIVALENT VARIETY FOR ANY PLANT SPECIFIED MAY BE SUBSTITUTED ONLY BY PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT. IF ANY SPECIFIED PLANTS ARE DEEMED UNAVAILABLE BY THE CONTRACTOR, THE CONTRACTOR MUST PROVIDE SUFFICIENT EVIDENCE AS DETERMINED BY THE LANDSCAPE ARCHITECT.

8. THE CONTRACTOR SHALL ASSUME THAT PLANTING MIX AS SPECIFIED SHALL BE REQUIRED FOR EACH AND EVERY PLANT PIT ON THE CONTRACT.

9. EXCATING PLANT PITS WITH AUGERS IS NOT PERMITTED.

10. THE EXCAVATION OF PLANT PITS AND THE INSTALLATION OF PLANTS WILL NOT BE ALLOWED IF THE GROUND AND THE PLANTING SOIL ARE IN AN UNWORKABLE CONDITION DUE TO EXCESSIVE MOISTURE, FROST OR OTHER UNSUITABLE CONDITION.

11. ADJUST TREE LOCATIONS AS REQUIRED TO AVOID CONFLICTS WITH UTILITIES. NOTIFY ENGINEER OF ANY CONFLICTS.

12. PLANTING MAINTENANCE SHALL BEGIN TWO WEEKS AFTER THE PLANTS HAVE BEEN INSTALLED AND SHALL EXTEND FOR 12 WEEKS.

    THE CONTRACTOR SHALL WATER ALL NEW PLANTING EVERY OTHER WEEK DURING THE PLANT MAINTENANCE PERIOD.

    THIS SCHEDULE SHALL BE FOLLOWED UNLESS OTHERWISE DIRECTED BY THE EIC. IN PERIODS OF HIGH RAINFALL THE WATERINGS SHALL BE POSTPONED. THE WORK SPECIFIED UNDER THIS ITEM MAY EXTEND INTO THE NEXT YEAR'S GROWING SEASON DEPENDING ON THE DATE OF PLANT ACCEPTANCE.

    ALL PLANTING BEDS SHALL BE MULCHED ONCE AT INSTALLATION AND ONCE THE FOLLOWING SPRING AFTER APRIL 1.

13. THE CONTRACTOR SHALL WATER PLANTS AT THE RATES INDICATED UNDER ITEM 611 OR AS SHOWN BELOW UNLESS OTHERWISE APPROVED BY THE EIC:

    ITEM QUANTITY
    611.0101XX, 611.0301XX 50 LITERS PER WATERING
    611.0201XX 20 LITERS PER WATERING
    611.0401XX 5 LITERS PER WATERING
    611.0501XX 5 LITERS PER WATERING

ITEM 610.6102 ESTABLISHING TURF

1. ESTABLISH TURF IN ALL DESIGNATED DISTURBED AREAS WITHIN THE CONTRACT LIMITS ADBE.

2. TOPSOIL: PROVIDE 100 MM OF SPECIFIED PLANTING MIX (2 PARTS TYPE A TOPSOIL MIXED IN BULK WITH 1 PART APPROVED COMPOST AND 3 PARTS COARSE SAND) FOR ALL SEED AREAS.

3. SEED MIX: DROUGHT & WEAR MIX BY PREFERRED SEED, BUFFALO, NY OR APPROVED EQUIVALENT MIX:

   - 30% 3RD MILLENIUM TALL FESCUE
   - 30% RHAMBLER TALL FESCUE
   - 30% TRAVERSE TALL FESCUE
   - 10% BROOKLAWN KENTUCKY BLUEGRASS

4. RATE: SEED: 860 KG PER HECTARE (8 LBS. PER 1,000 SQUARE FEET)

5. GROUND PREPARATION AND SEEDING: METHOD 1 SHALL APPLY.

6. ACCEPTABLE SEEDING SEASON: APRIL 15 TO SEPTEMBER 30.

7. HYDROMULCH SHALL INCLUDE THE FOLLOWING:

   - 18:24:12 FERTILIZER AT 250 LBS./ACRE
   - MULCH ANCHORAGE AT 30 LBS./ACRE
   - HYDROMULCHING RATE OF 1500 LBS./ACRE

8. THE CONTRACTOR SHALL MOW ALL TURF ESTABLISHMENT AREAS SEEDED TO A HEIGHT OF 75 MM AFTER INITIAL GROWTH REACHES 125 MM, AND THEN ONCE A WEEK THEREAFTER UNLESS OTHERWISE APPROVED. CLIPPINGS FROM THE FIRST MOWING SHALL BE REMOVED.

9. CONTRACTOR SHALL FERTILIZE THE LAWN WITH A 3:0:8 FERTILIZER ONCE DURING THE MAINTENANCE PERIOD, EITHER MAY 30 OR SEPTEMBER 1.

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ON: 5/9/2013

ON:

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LANDSCAPE LEGEND AND NOTES

TWLA

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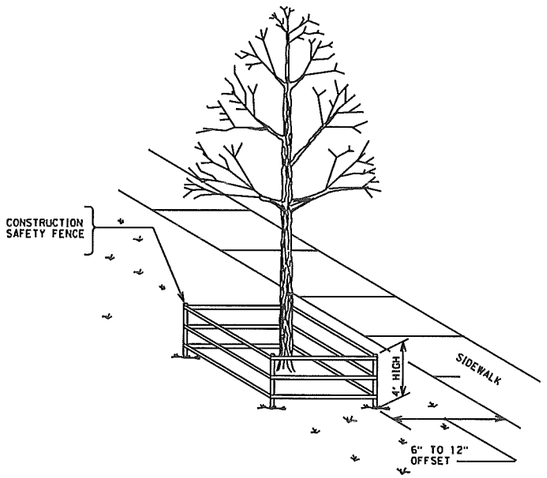
USER = M. CHIUTEN



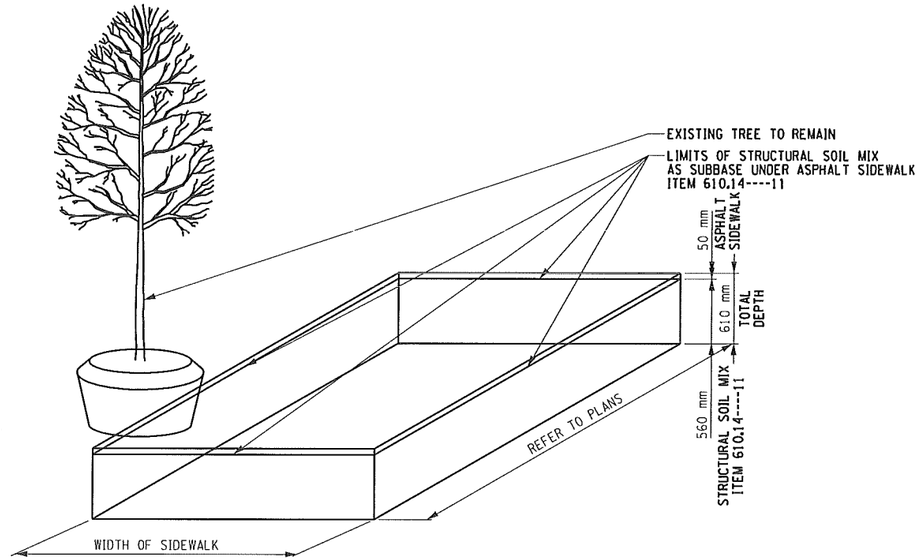
TREE DIAMETER (DBH)	DISTANCE OF FENCING FROM FACE OF TREE TRUNK
LESS THAN 10"	6'
10" - 14"	10'
15" - 19"	12'
20" OR MORE	15'

NOTES:

1. REFER TO PLANS FOR TREES WITHIN THE PROJECT LIMITS THAT ARE TO RECEIVE THIS TREATMENT.
2. DO NOT PERMIT CONSTRUCTION EQUIPMENT UNDER TREE CANOPY.

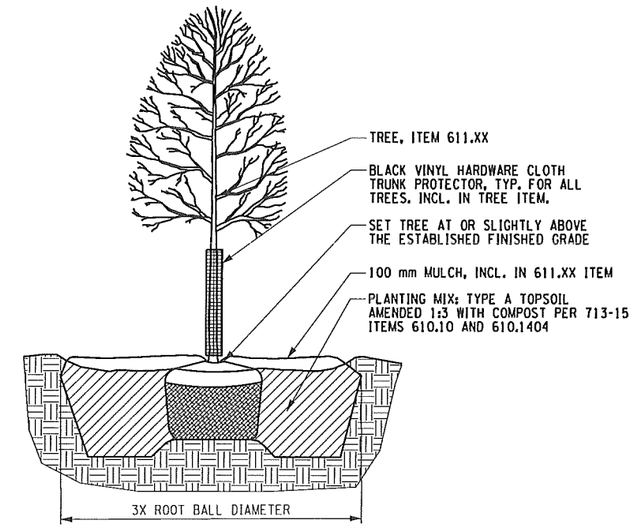
TEMPORARY PLASTIC BARRIER FENCE

ITEM 607.1401--10
SCALE: NOT TO SCALE



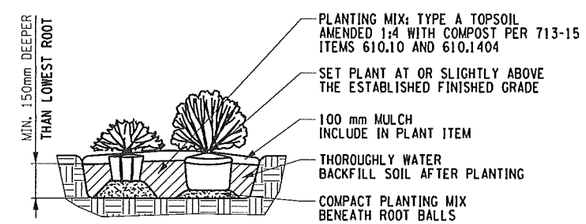
STRUCTURAL SOIL MIX ADJACENT TO EXISTING TREE

ITEM 610.14----11
SCALE: 1:50



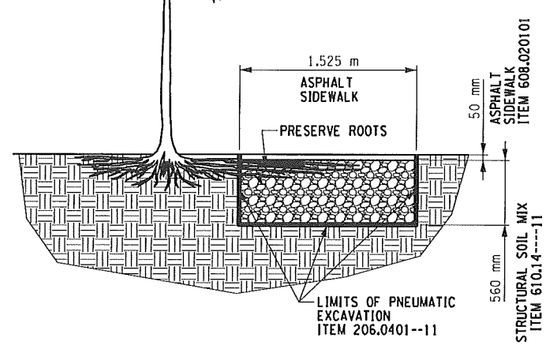
TREE PLANTING

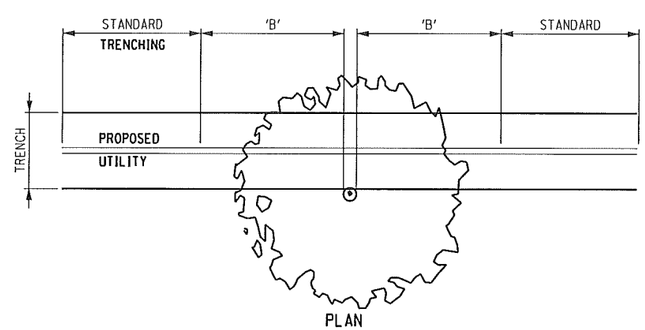
SCALE: 1:50



SHRUB PLANTING

SCALE: 1:50





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

NOTES:

1. PNEUMATIC EXCAVATION SHALL BE USED IN THE ROOT ZONE AREA OF TREES INDICATED ON LANDSCAPE PLANS. IF TRENCH FALLS OUTSIDE THE CANOPY OF THE TREE INVOLVED, STANDARD TRENCHING TECHNIQUES MAY BE USED.
2. BEFORE COMMENCING WORK WITHIN THE TREE PROTECTION ZONE, AUTHORIZATION IS REQUIRED FROM THE E.I.C.

PNEUMATIC TRENCHING AT EXISTING TREE

ITEM 206.0401--11
SCALE: NOT TO SCALE

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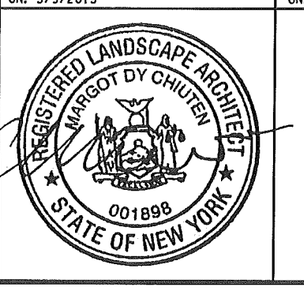
PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:



AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

LANDSCAPE DETAILS

TWLA

DRAWING NO. LD-1
SHEET NO. 95 OF 130

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAD_01.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR K. WOLF JOB MANAGER K. WOLF DESIGNED BY M. CHIUTEN CHECKED BY K. WOLF DRAFTED BY M. CHIUTEN CHECKED BY K. WOLF ESTIMATED BY

FILE NAME = FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAD_01.DGN
DATE/TIME = 12/7/2012 3:23:51 PM
USER = M. CHIUTEN

ITEM 614.03XX TREE REMOVAL & STUMP GRUBBING					
APPROX. STATION	614.0314	614.0324	614.0334	614.0344	614.0354
STA HR 1+187 LT	1	--	--	--	--
STA HR 1+190 LT	1	--	--	--	--
STA HR 1+193 LT	1	--	--	--	--
STA HR 1+196 LT	1	--	--	--	--
STA HR 1+199 LT	1	--	--	--	--
STA HR 1+202 LT	1	--	--	--	--
STA HR 1+205 LT	1	--	--	--	--
STA HR 1+208 LT	1	--	--	--	--
STA HR 1+218 LT	--	1	--	--	--
STA HR 1+221 LT	--	1	--	--	--
STA HR 1+222 LT	--	2	--	--	--
STA HR 1+236 RT	1	--	--	--	--
STA HR 1+240 RT	1	--	--	--	--
STA HR 1+242 RT	1	--	--	--	--
STA HR 1+245 RT	1	--	--	--	--
STA HR 1+248 RT	1	--	--	--	--
STA HR 1+585 LT	--	1	--	--	--
STA HR 1+589 LT	--	1	--	--	--
STA HR 1+593 LT	--	1	--	--	--
STA HR 1+682 LT	--	1	--	--	--
STA HR 1+685 LT	--	1	--	--	--
STA HR 1+689 LT	--	1	--	--	--
STA HR 1+672 LT	--	1	--	--	--
STA HR 1+675 LT	--	1	--	--	--
STA HR 1+707 LT	--	--	1	--	--
STA HR 1+710 LT	--	--	1	--	--
STA HR 1+713 LT	--	--	1	--	--
STA HR 1+719 LT	--	--	1	--	--
STA HR 1+770 RT	--	--	--	--	1
STA HR 1+841 LT	--	1	--	--	--
STA HR 1+844 LT	--	1	--	--	--
STA HR 1+885 LT	--	1	--	--	--
STA HR 1+898 LT	1	--	--	--	--

ITEM 614.03XX TREE REMOVAL & STUMP GRUBBING (CONTINUED)					
APPROX. STATION	614.0314	614.0324	614.0334	614.0344	614.0354
STA HR 1+901 LT	1	--	--	--	--
STA HR 2+063 LT	--	--	--	1	--
STA HR 2+104 LT	--	1	--	--	--
STA HR 2+105 RT	--	--	--	1	--
STA HR 2+115 RT	--	--	1	--	--
STA HR 2+119 LT	--	--	--	--	1
STA HR 2+119 RT	--	1	--	--	--
STA HR 2+123 LT	--	1	--	--	--
STA HR 2+182 RT	--	--	--	1	--
STA HR 2+184 RT	--	--	--	1	--
STA HR 2+192 RT	--	1	--	--	--
STA HR 2+197 RT	--	1	--	--	--
STA HR 2+571 LT	--	--	--	--	1
STA HR 2+598 RT	--	1	--	--	--
STA HR 2+625 LT	--	1	--	--	--
STA HR 2+735 LT	--	1	--	--	--
STA HR 2+815 LT	1	--	--	--	--
STA HR 2+842 LT	--	1	--	--	--
STA HR 3+278 LT	--	1	--	--	--
STA HR 3+280 LT	--	1	--	--	--
STA HR 3+282 LT	--	1	--	--	--
STA HR 3+283 LT	--	1	--	--	--
TOTALS	16	29	5	4	3

ITEM 610.14----11 STRUCTURAL SOIL MIX (0.61 m DEPTH)		
APPROX. STATION	AREA (SM)	VOLUME (CM)
STA HR 1+613 LT	5.0	3.1
STA HR 1+843 LT	5.0	3.1
STA HR 2+595 LT	5.0	3.1
STA HR 3+074 LT	8.4	5.1
STA HR 3+240 LT	25.0	15.3
STA HR 3+390 LT	8.4	5.1
STA HR 3+410 LT	10.1	6.2
TOTAL	66.9 SM	41.0 CM

PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

REGISTERED LANDSCAPE ARCHITECT
MARGOT DY CHIUTEN
001898
STATE OF NEW YORK

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

LANDSCAPE TABLES

TWLA

DRAWING NO. LT-1
SHEET NO. 96 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LT_01.DGN

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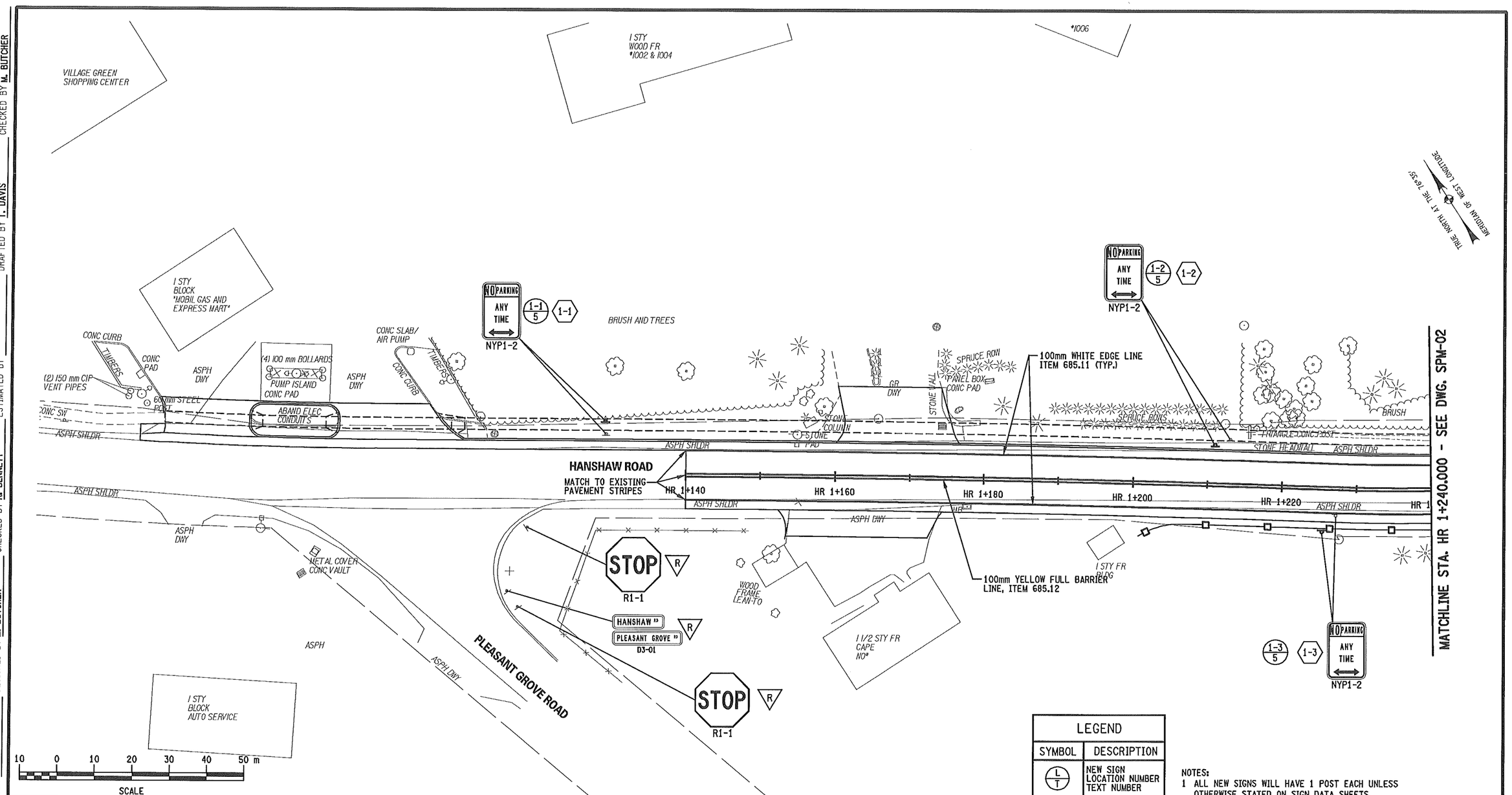
DATE/TIME = 12/7/2012 3:23:51 PM
USER = M. CHIUTEN

DESIGN SUPERVISOR K. WOLF JOB MANAGER K. WOLF DESIGNED BY M. CHIUTEN CHECKED BY K. WOLF ESTIMATED BY DRAFTED BY M. CHIUTEN CHECKED BY K. WOLF



LEGEND	
SYMBOL	DESCRIPTION
L / T	NEW SIGN LOCATION NUMBER TEXT NUMBER
L	SIGN REMOVAL
L	RELOCATE TO POSITION SHOWN
R	TO REMAIN

NOTES:
1. ALL NEW SIGNS WILL HAVE 1 POST EACH UNLESS OTHERWISE STATED ON SIGN DATA SHEETS.
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PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-28-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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DOCUMENT NAME: $FILENAME$

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

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ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN LOCATION PLANS

FISHER ASSOCIATES

DRAWING NO. SPM-1
SHEET NO. 97 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY M. BUTCHER
DRAFTED BY T. DAVIS
ESTIMATED BY
CHECKED BY R. BENNETT

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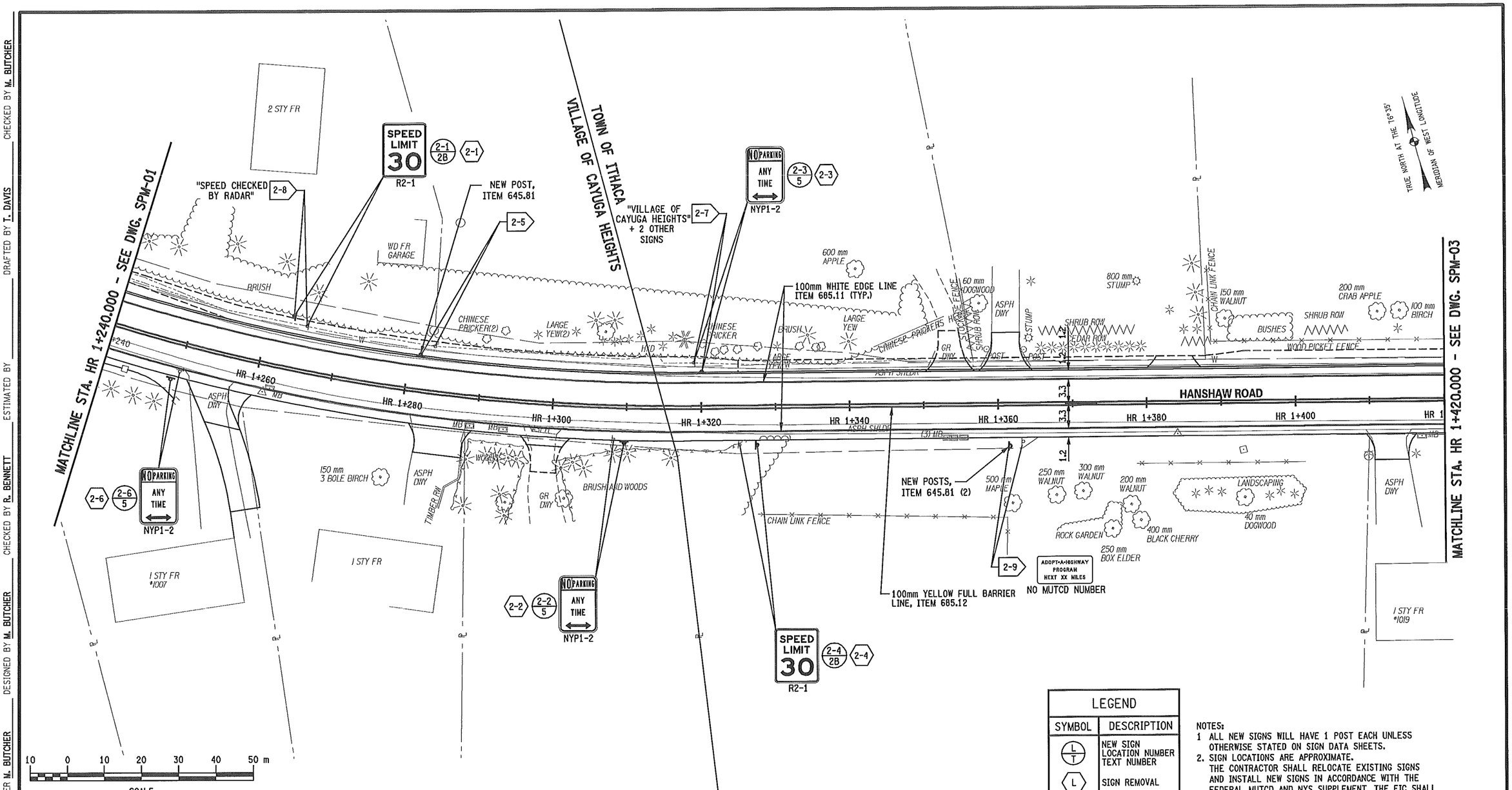
DATE/TIME = 5/14/2013
USER = MARKB



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PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN LOCATION PLANS

FISHER ASSOCIATES

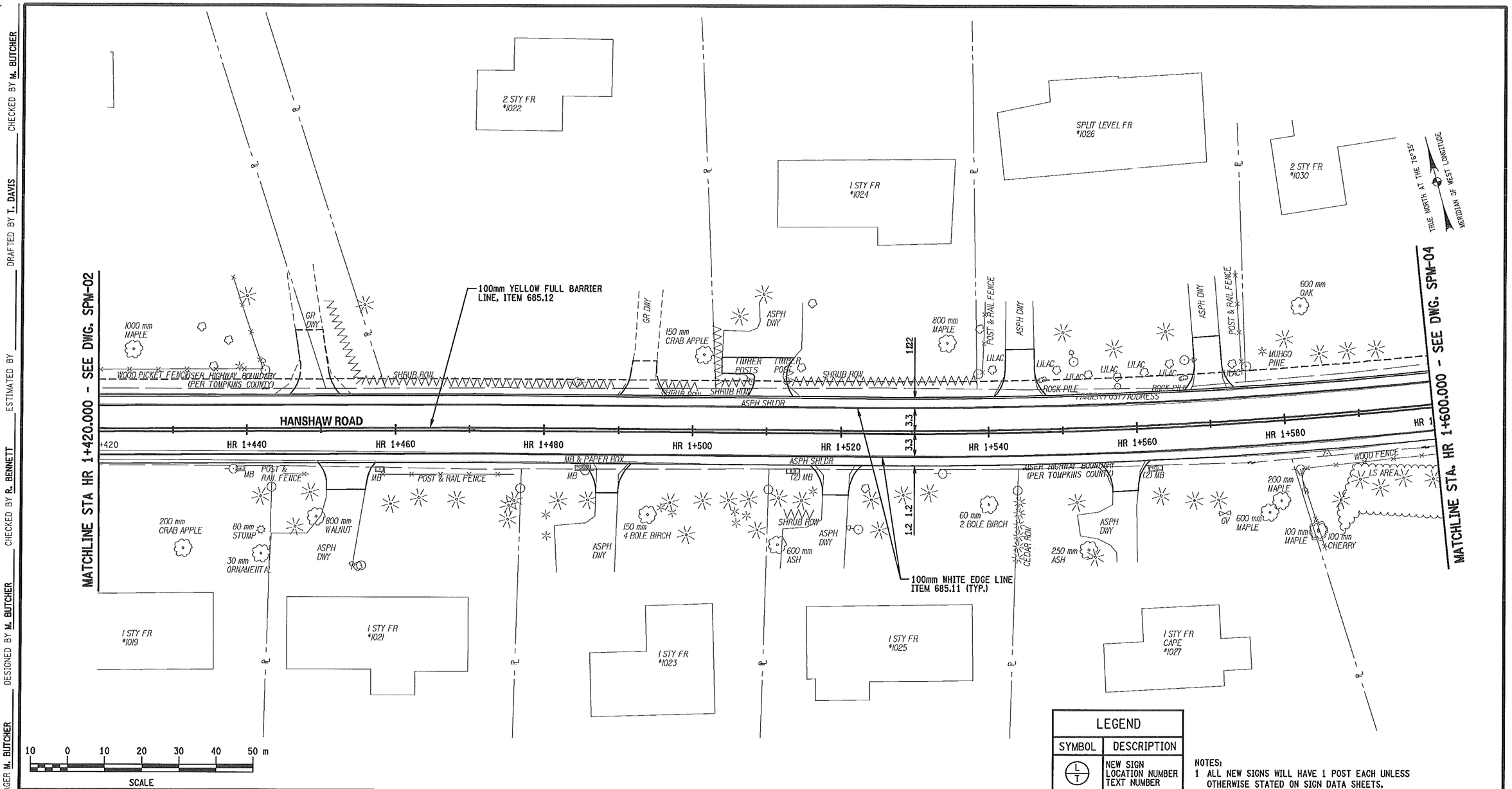
DRAWING NO. SPM-2
SHEET NO. 98 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: $FILENAME$

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY M. BUTCHER
DRAFTED BY T. DAVIS
CHECKED BY R. BENNETT
ESTIMATED BY

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



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PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN LOCATION PLANS

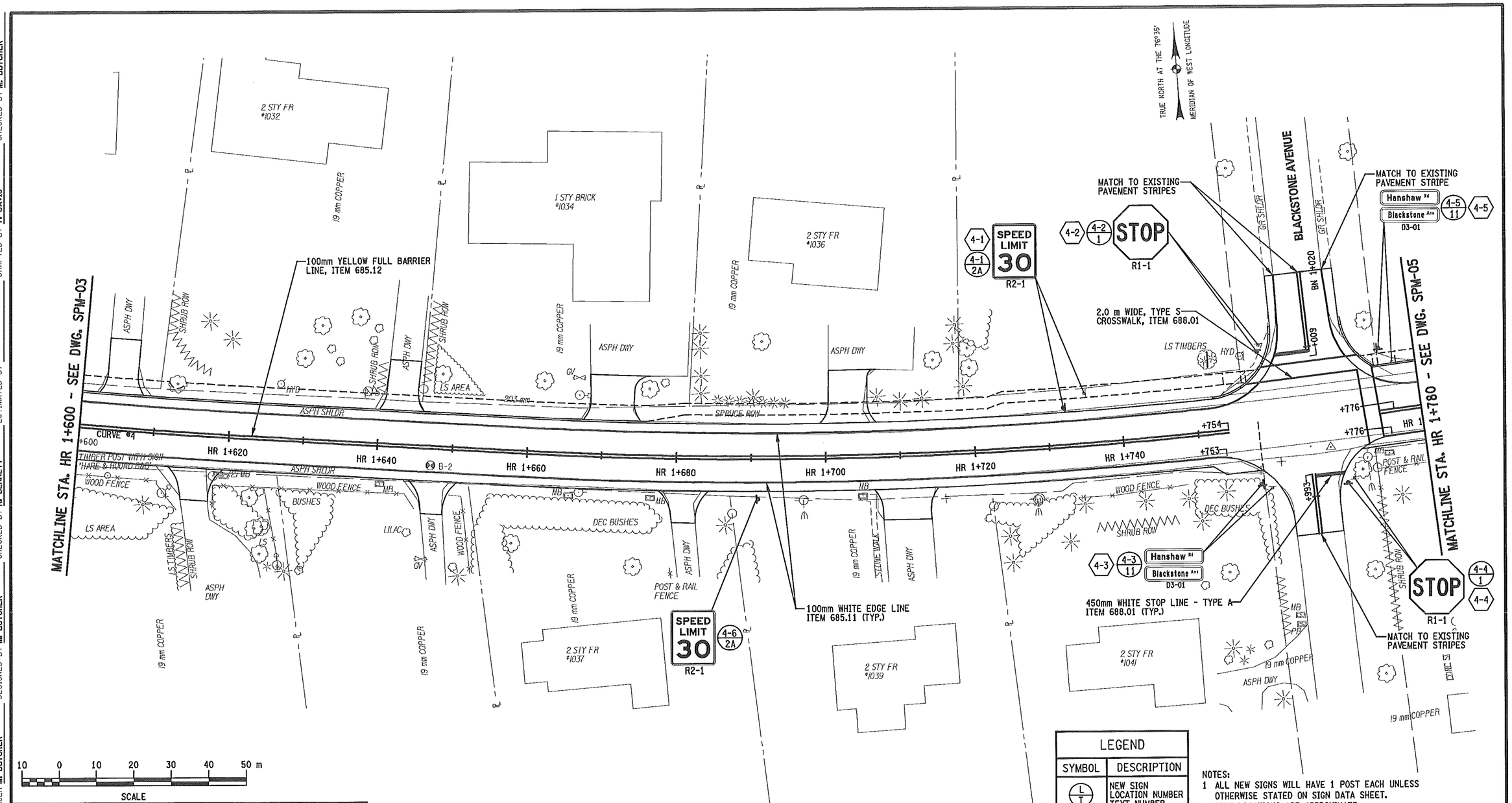
FISHER ASSOCIATES

DRAWING NO. SPM-3
SHEET NO. 99 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
DRAFTED BY T. DAVIS
ESTIMATED BY
CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



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PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN LOCATION PLANS

FISHERASSOCIATES

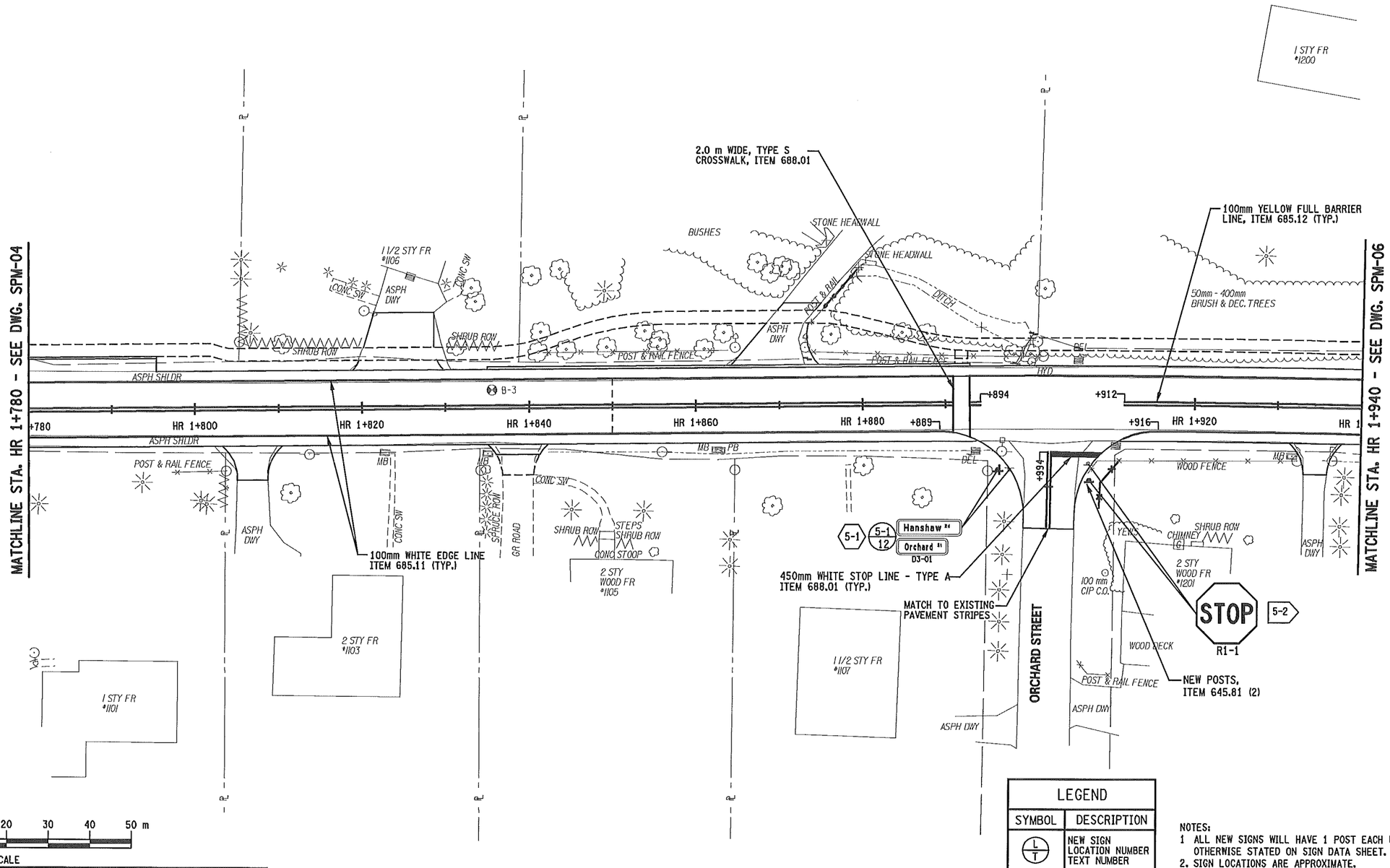
DRAWING NO. SPM-4
SHEET NO. 100 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: ⊕FILENAME⊕

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER ESTIMATED BY

FILE NAME = DGN⊕SPEC
DATE/TIME = 5/14/2013
USER = MARKB



LEGEND	
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PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-24-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
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DOCUMENT NAME: $FILENAME$

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN LOCATION PLANS

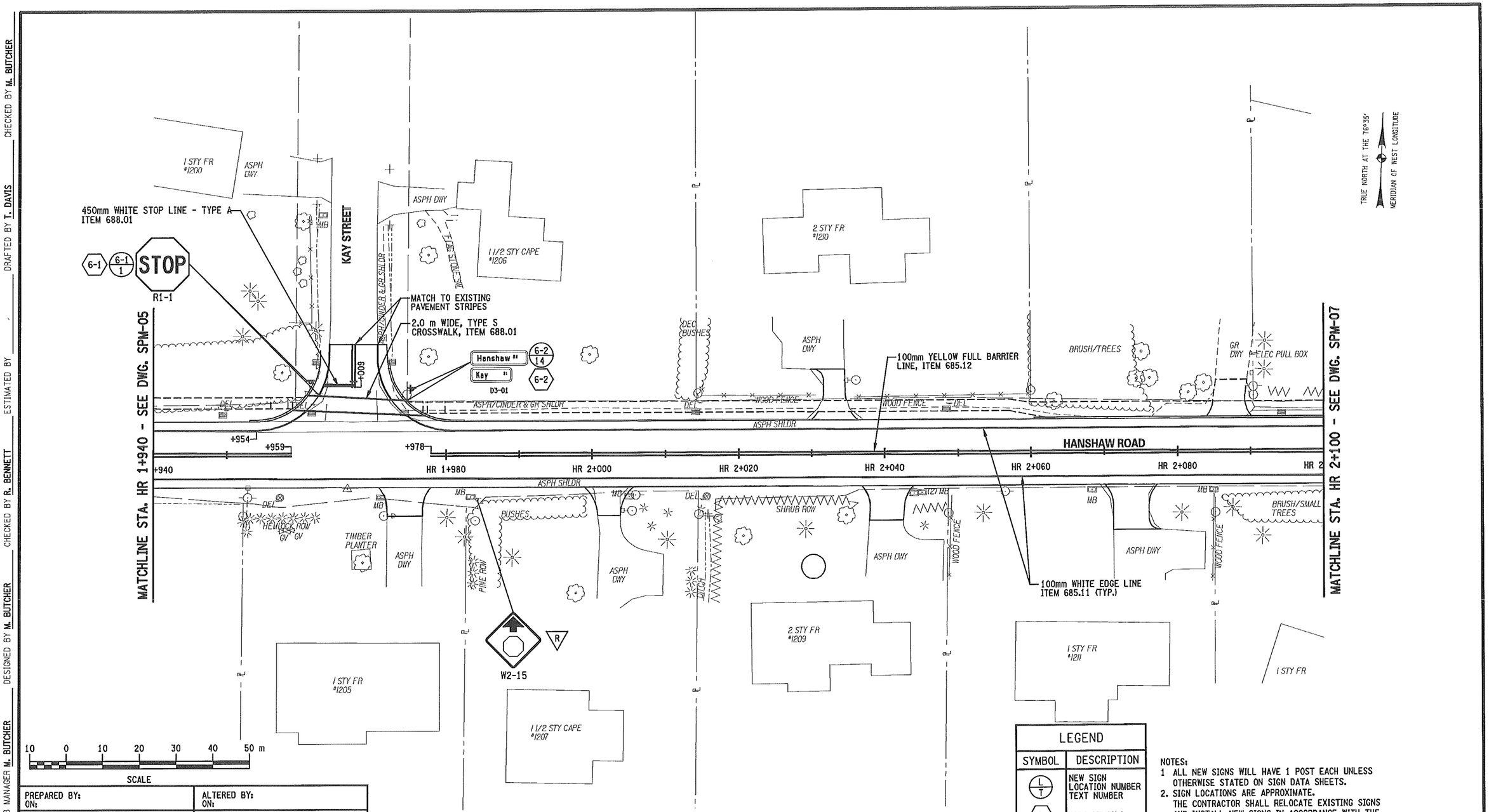
FISHERASSOCIATES

DRAWING NO. SPM-5
SHEET NO. 101 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



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PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN LOCATION PLANS

FISHER ASSOCIATES

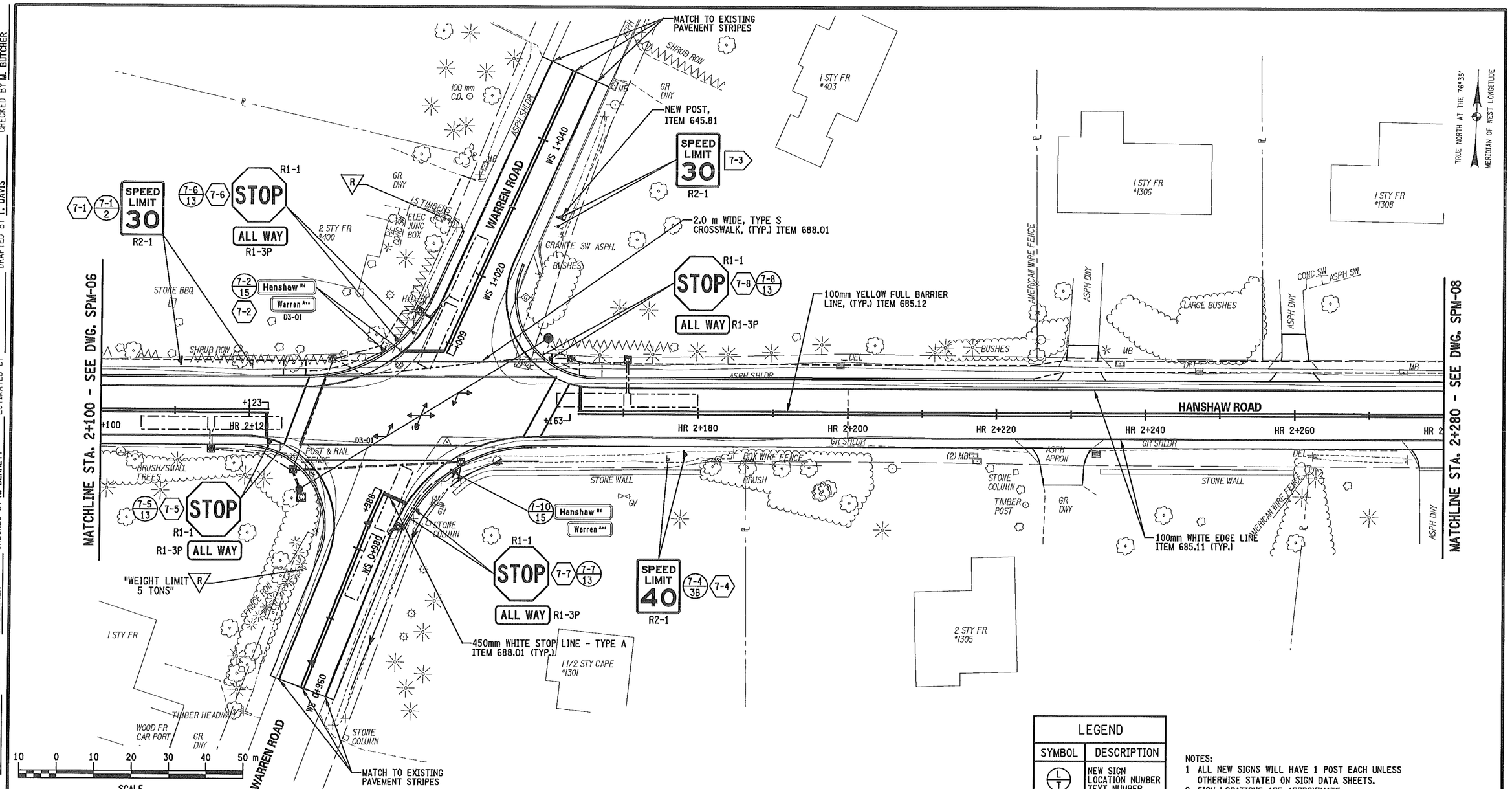
DRAWING NO. SPM-6
SHEET NO. 102 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: \$FILENAME\$

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER

FILE NAME = DGN\$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



LEGEND	
SYMBOL	DESCRIPTION
L/T	NEW SIGN LOCATION NUMBER TEXT NUMBER
L	SIGN REMOVAL
L	RELOCATE TO POSITION SHOWN
R	TO REMAIN

NOTES:
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DESCRIPTION OF WORK:

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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

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SIGN LOCATION PLANS

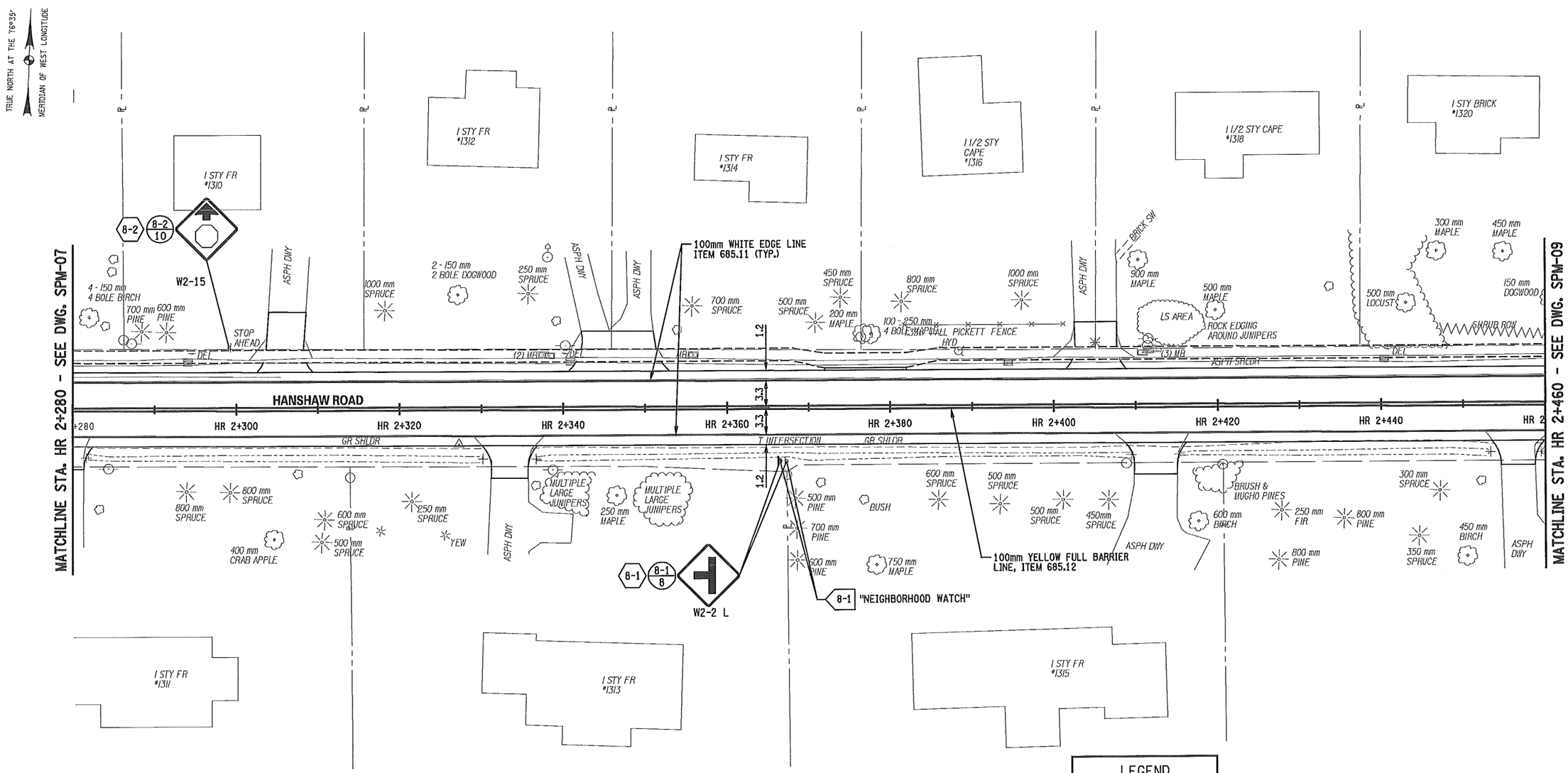
FISHERASSOCIATES

DRAWING NO. SPM-7
SHEET NO. 103 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER



LEGEND

SYMBOL	DESCRIPTION
(L/T)	NEW SIGN LOCATION NUMBER TEXT NUMBER
(L)	SIGN REMOVAL
[L]	RELOCATE TO POSITION SHOWN
(R)	TO REMAIN

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PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

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SIGN LOCATION PLANS

FISHER ASSOCIATES

DRAWING NO. SPM-8
SHEET NO. 104 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: $FILENAME$

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
DRAFTED BY T. DAVIS
ESTIMATED BY
CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

LEGEND	
SYMBOL	DESCRIPTION
L / T	NEW SIGN LOCATION NUMBER TEXT NUMBER
L	SIGN REMOVAL
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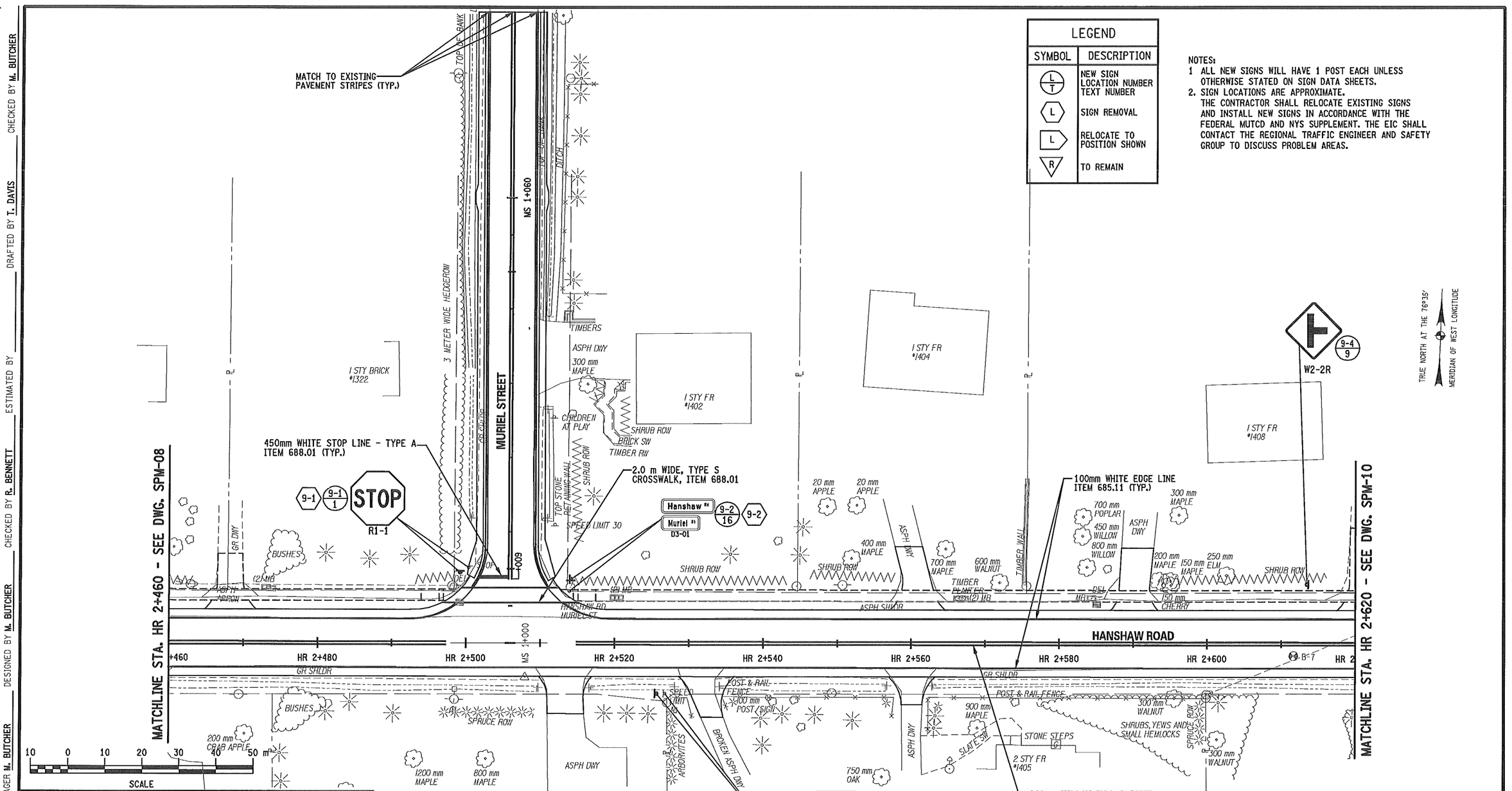

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STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-28-2013

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
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BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN LOCATION PLANS

FISHER ASSOCIATES

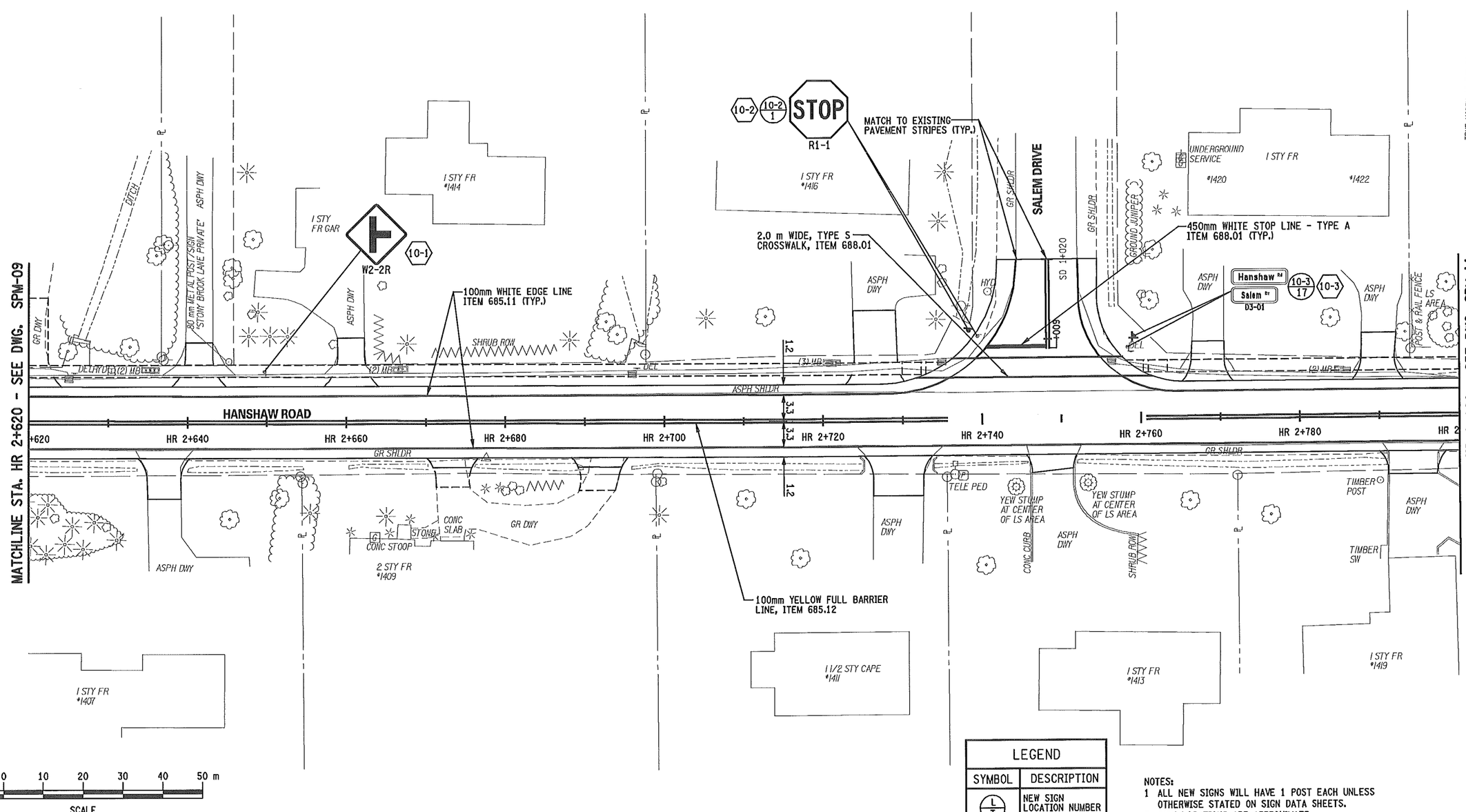
DRAWING NO. SPM-9
SHEET NO. 105 OF 130

DOCUMENT NAME: $FILENAME$

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY M. BUTCHER
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER
ESTIMATED BY
CHECKED BY R. BENNETT

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



LEGEND	
SYMBOL	DESCRIPTION
L T	NEW SIGN LOCATION NUMBER TEXT NUMBER
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STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

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DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

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ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN LOCATION PLANS

FISHERASSOCIATES

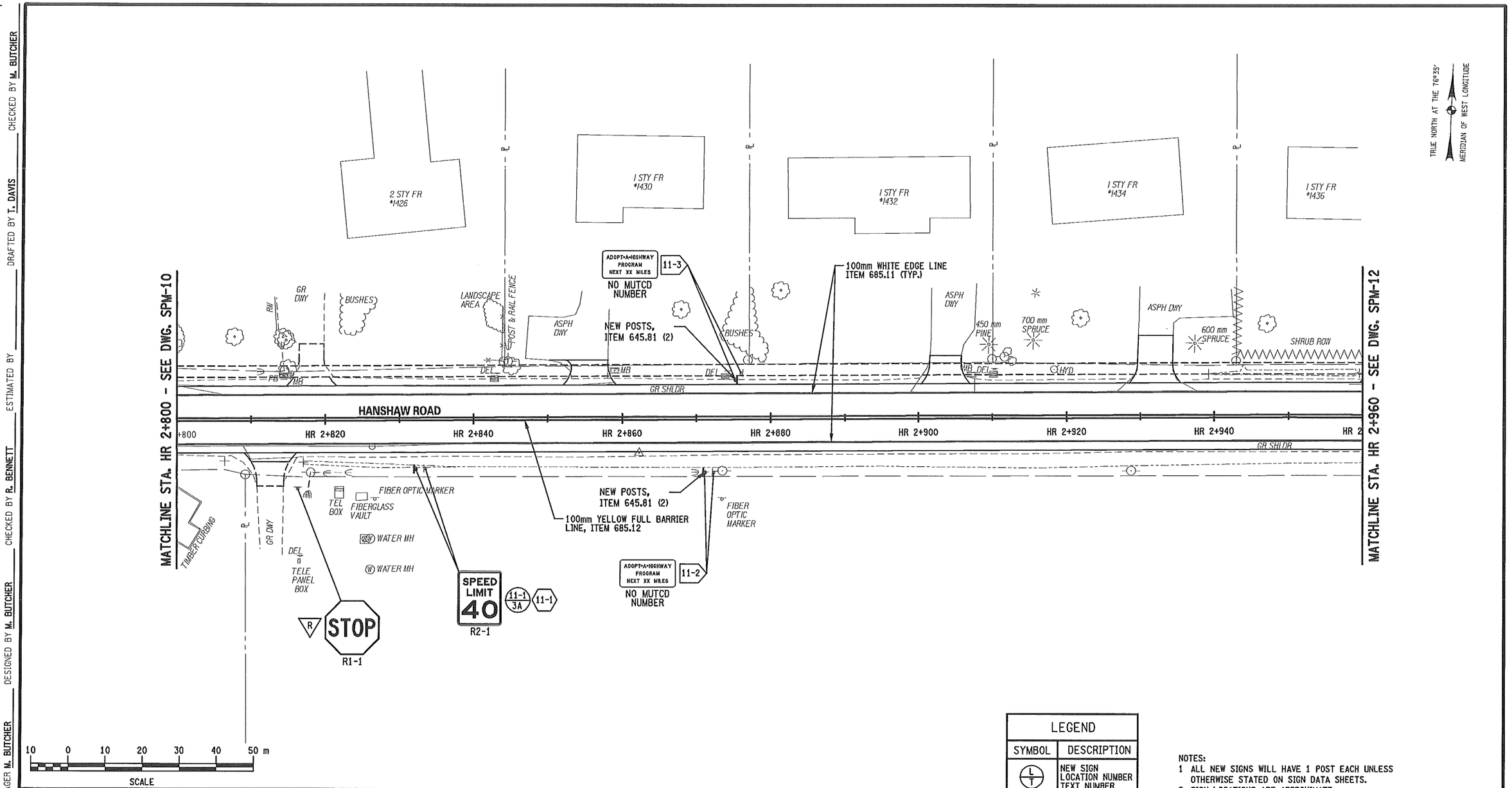
DRAWING NO. SPM-10
SHEET NO. 106 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: $FILENAME$

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



LEGEND	
SYMBOL	DESCRIPTION
L T	NEW SIGN LOCATION NUMBER TEXT NUMBER
L	SIGN REMOVAL
L	RELOCATE TO POSITION SHOWN
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SIGNATURE DATE

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COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

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ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN LOCATION PLANS

FISHER ASSOCIATES

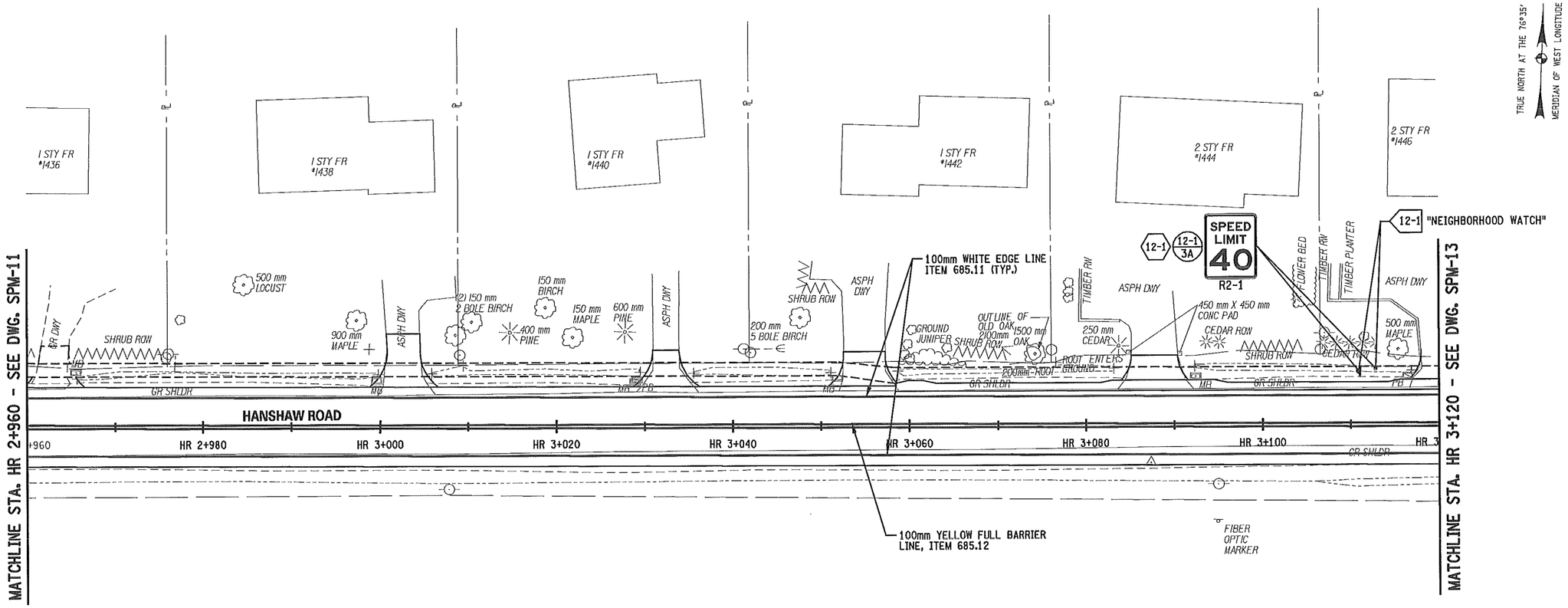
DRAWING NO. SPM-11
SHEET NO. 107 OF 130

DOCUMENT NAME: ◆FILENAME◆

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



10 0 10 20 30 40 50 m

SCALE

LEGEND	
SYMBOL	DESCRIPTION
L / T	NEW SIGN LOCATION NUMBER TEXT NUMBER
L	SIGN REMOVAL
L	RELOCATE TO POSITION SHOWN
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MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
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PS&E DATE
MAY 2013

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SIGN LOCATION PLANS

FISHER ASSOCIATES

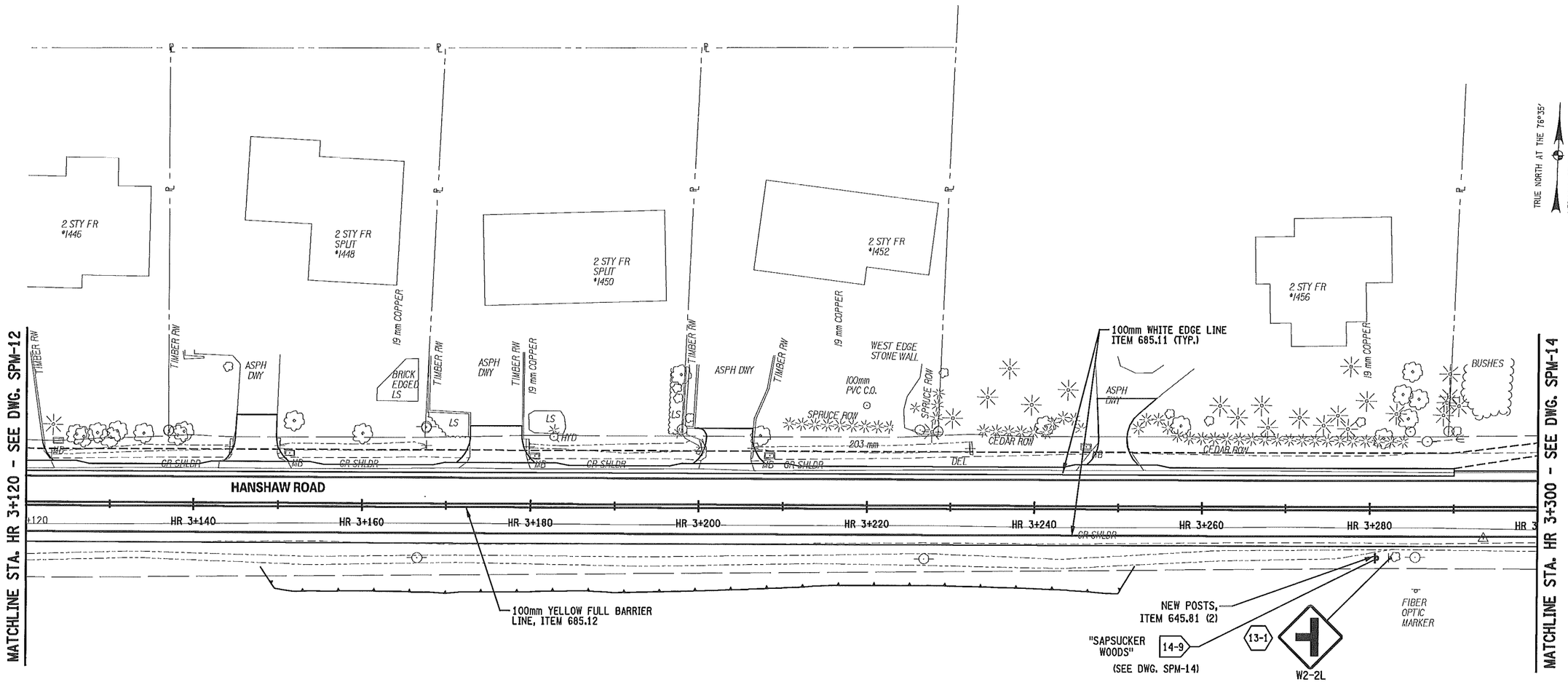
DRAWING NO. SPM-12
SHEET NO. 108 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: @FILENAME@

FILE NAME = DGN@SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY M. BUTCHER DRAFTED BY T. DAVIS CHECKED BY R. BENNETT ESTIMATED BY



10 0 10 20 30 40 50 m

SCALE

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LEGEND

SYMBOL	DESCRIPTION
L / T	NEW SIGN LOCATION NUMBER TEXT NUMBER
L	SIGN REMOVAL
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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
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PS&E DATE
MAY 2013

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ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN LOCATION PLANS

FISHER ASSOCIATES

DRAWING NO. SPM-13
SHEET NO. 109 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN⊕SPEC
DATE/TIME = 5/14/2013
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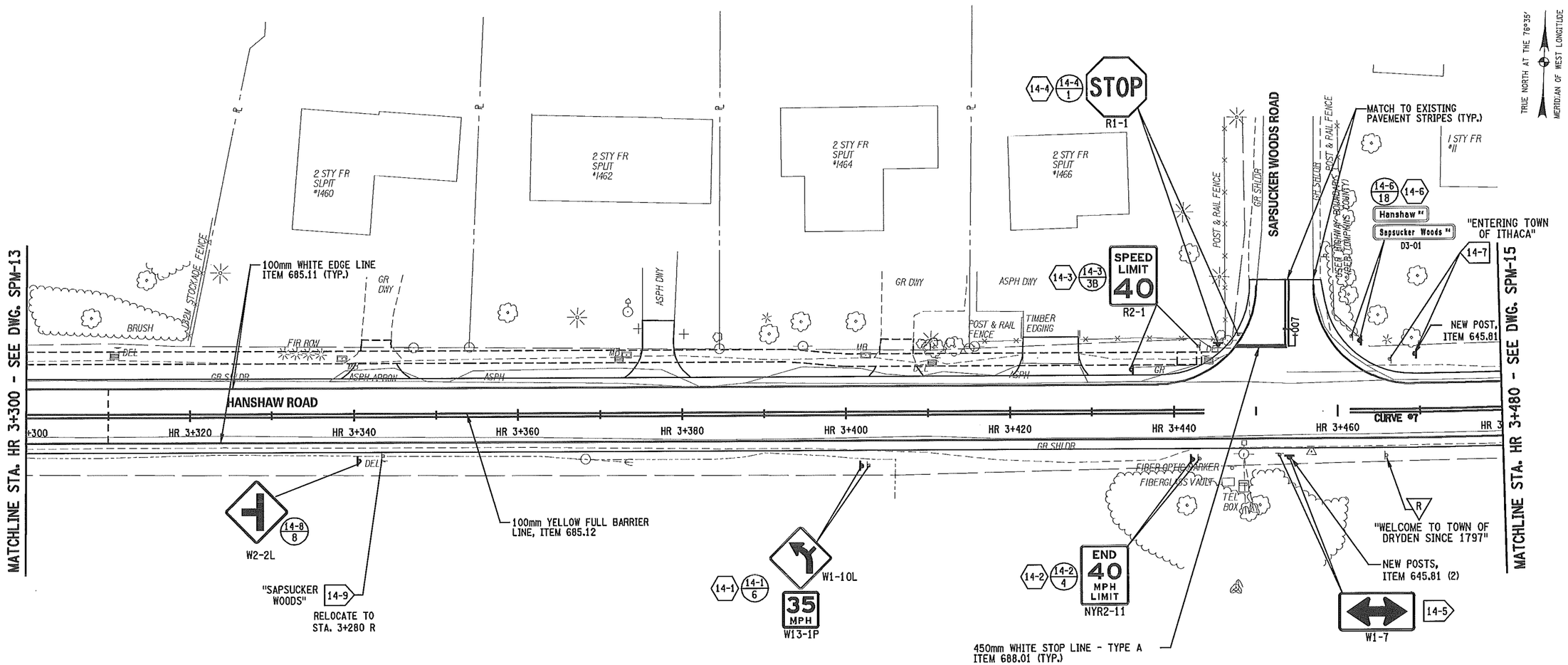

10 0 10 20 30 40 50 m

SCALE

LEGEND	
SYMBOL	DESCRIPTION
L/T	NEW SIGN LOCATION NUMBER TEXT NUMBER
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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
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ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN LOCATION PLANS

FISHER ASSOCIATES

DRAWING NO. SPM-14
SHEET NO. 110 OF 130

DOCUMENT NAME: $FILENAME$

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER
ESTIMATED BY CHECKED BY R. BENNETT
JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER
DESIGN SUPERVISOR D. JUDSON

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
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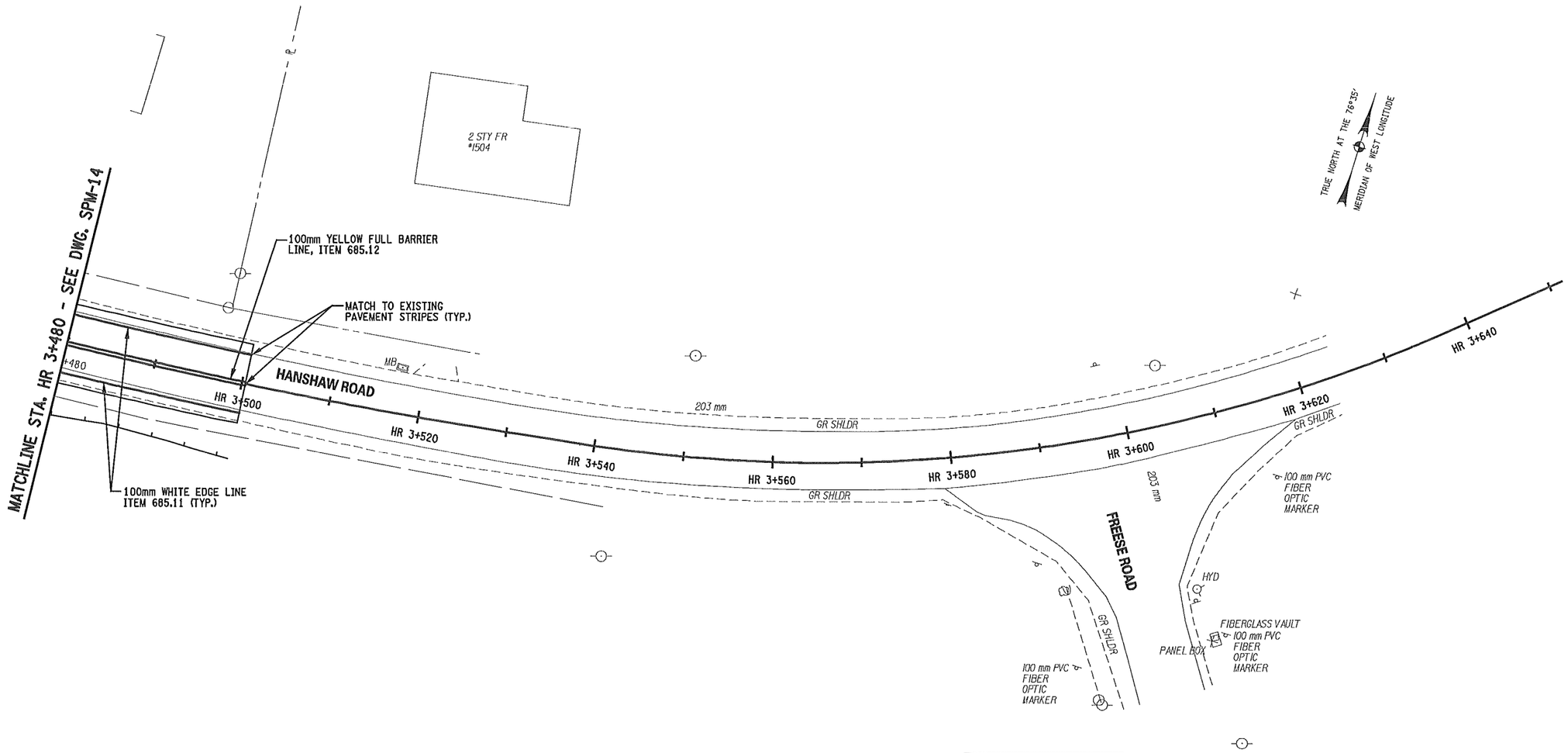

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SCALE

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PS&E DATE
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FISHERASSOCIATES

DRAWING NO. SPM-15
SHEET NO. 111 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN⊕SPEC
DATE/TIME = 5/14/2013
USER = MARKB

SIGN DATA SHEET

TEXT NUMBER	LOCATION NUMBER	ITEM NUMBER	PAYMENT FACTOR	TOTAL QUANTITY	TEXT WxH (mm)	M.U.T.C.D. NUMBER	MOUNT
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		645.81	2 EA	12 EA			
2A	4-1, 4-6 7-3 [3]	645.5102	0.450 m²	1.350 m²	SPEED LIMIT 30 600 X 750	R2-1	GR MTD
		645.81	1 EA	3 EA			
2B	2-1, 2-4 7-1, [3]	645.5102	1.080 m²	3.240 m²	SPEED LIMIT 30 900 X 1200	R2-1	GR MTD
		645.81	2 EA	6 EA			
3A	9-3, 11-1, 12-1. [3]	645.5102	0.450 m²	1.350 m²	SPEED LIMIT 40 600 X 750	R2-1	GR MTD
		645.81	1 EA	3 EA			
3B	7-4, 14-3 [2]	645.5102	1.080 m²	2.160 m²	SPEED LIMIT 40 900 X 1200	R2-1	GR MTD
		645.81	2 EA	4 EA			
4	14-2 [1]	645.5102	1.080 m²	1.080 m²	END 40 MPH LIMIT 900 X 1200	NYR2-11	GR MTD
		645.81	2 EA	2 EA			
5	1-1, 1-2, 1,3 2-2, 2-3, 2-6 [6]	645.5101	0.135 m²	0.810 m²	NO PARKING ANY TIME 300 X 450	NYP1-2	GR MTD
		645.81	1 EA	6 EA			
6	14-1 [1]	645.5102	1.170 m²	1.170 m²	900 X 900	W1-10 L	GR MTD
		645.81	2 EA	2 EA	35 MPH 600 X 600	W13-1 P	
7	NOT USED [0]						
8	8-1, 14-8 [2]	645.5102	0.563 m²	1.125 m²	750 X 750	W2-2 L	GR MTD
		645.81	1 EA	2 EA			
9	9-4 [1]	645.5102	0.563 m²	0.563 m²	750 X 750	W2-2R	GR MTD
		645.81	1 EA	1 EA			
10	8-2 [1]	645.5102	0.810 m²	0.810 m²	900 X 900	W3-1	GR MTD
		645.81	2 EA	2 EA			
11	4-3, 4-5 [2]	645.5101	0.640 m²	1.280 m²	800 x 200 Hanshaw 24 Blackstone Ave 800 x 200	D3-01	GR MTD B-B
		645.81	1 EA	2 EA			
12	5-1 [1]	645.5101	0.570 m²	0.570 m²	800 x 200 Hanshaw 24 Orchard St 625 x 200	D3-01	GR MTD B-B
		645.81	1 EA	1 EA			
13	7-5, 7-6 7-7, 7-8 [4]	645.5202	0.960 m²	3.840 m²	STOP 900 X 900	R1-1	GR MTD
		645.81	2 EA	8 EA	ALL WAY 450 X 150	R1-3P	

LEGEND

SYMBOL	DESCRIPTION
GR MTD	GROUND MOUNTED
OH MTD	OVERHEAD MOUNTED
BR MTD	BRIDGE MOUNTED
PO MTD	POLE MOUNTED
B-B	BACK TO BACK
L T	NEW SIGN LOCATION NUMBER TEXT NUMBER
L	SIGN REMOVAL
L T	RELOCATE TO POSITION SHOWN
R	TO REMAIN

GENERAL NOTES

1. THE FOLLOWING SHALL BE IN ACCORDANCE WITH THE NYS MUTCD REQUIREMENTS FOR THE SPECIFIED MUTCD SIGN CODE:
   A. LETTER SIZE AND SERIES
   B. LEGEND & BACKGROUND COLOR
   C. REFLECTIVITY
   D. SIZE AND SHAPE OF SIGN
2. THE TYPE OF CHARACTERS AS SPECIFIED IN THE STANDARD SPECIFICATIONS SHALL BE AS FOLLOWS:

MUTCD CODE LETTER	TYPE OF CHARACTER
G & I	IV
R, P, W, & M	IV OR V

NOTES:

1) SIGN LOCATIONS AS SHOWN ON PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL RELOCATE EXISTING SIGNS AND INSTALL NEW SIGNS IN ACCORDANCE WITH THE FEDERAL MUTCD. THE EIC SHALL CONTACT THE REGIONAL TRAFFIC ENGINEERING AND SAFETY GROUP TO DISCUSS PROBLEM AREAS.

2) THE PAYMENT FACTORS FOR SIGNS ARE FROM THE APPLICABLE STANDARD SHEETS OR SIGN FACE LAYOUTS.

3) THE PAYMENT FACTOR FOR POSTS IS THE NUMBER OF POSTS PROVIDED PER INSTALLATION.

4) THE TOTAL PAYMENT QUANTITY IS OBTAINED BY MULTIPLYING THE NUMBER OF LOCATIONS (SHOWN IN THE LOWER RIGHT CORNER OF THE LOCATIONS BLOCK) BY THE PAYMENT FACTOR.

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-28-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN TEXT DATA SHEETS

FISHER ASSOCIATES

DRAWING NO. SDS- 1
SHEET NO. 112 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: ⊕FILENAME⊕

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY M. BUTCHER
ESTIMATED BY R. BENNETT DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN⊕SPEC
DATE/TIME = 5/14/2013
USER = MARKB

SIGN DATA SHEET

TEXT NUMBER	LOCATION NUMBER	ITEM NUMBER	PAYMENT FACTOR	TOTAL QUANTITY	TEXT WxH (mm)	M.U.T.C.D. NUMBER	MOUNT
14	6-2	645.5101	0.570 m^2	0.570 m^2	800 x 200 Hanshaw Rd Kay St 625 x 200	D3-01	GR MTD B-B
	1	645.81	1 EA	1 EA			
15	7-2, 7-10	645.5101	0.570 m^2	1.140 m^2	800 x 200 Hanshaw Rd Warren Ave 625 x 200	D3-01	GR MTD B-B
	2	645.81	1 EA	2 EA			
16	9-2	645.5101	0.570 m^2	0.570 m^2	800 x 200 Hanshaw Rd Muriel St 625 x 200	D3-01	GR MTD B-B
	1	645.81	1 EA	1 EA			
17	10-3	645.5101	0.570 m^2	0.570 m^2	800 x 200 Hanshaw Rd Salem Dr 625 x 200	D3-01	GR MTD B-B
	1	645.81	1 EA	1 EA			
18	14-6	645.5102	.800 m^2	.800 m^2	800 x 200 Hanshaw Rd Sapsucker Woods Rd 1200 x 200	D3-01	GR MTD B-B
	1	645.81	2 EA	2 EA			

PAVEMENT MARKING TABLE

ITEM	DESCRIPTION	LOCATION	LENGTH	QUANTITY
685.11	WHITE EDGE LINE	HR 1+140.00 TO HR 1+758.20 LT	618.20	618.2
		HR 1+140.00 TO HR 1+753.50 RT	613.50	613.5
		HR 1+774.40 TO HR 1+960.90 LT	186.50	186.5
		HR 1+774.40 TO HR 1+890.93 RT	116.53	116.53
		HR 1+912.00 TO HR 2+124.60 RT	212.60	212.6
		HR 1+974.50 TO HR 2+127.40 LT	152.90	152.9
		HR 2+163.00 TO HR 2+498.80 LT	335.80	335.8
		HR 2+513.00 TO HR 2+735.90 LT	222.90	222.9
		HR 2+757.60 TO HR 3+446.20 LT	688.60	688.6
		HR 3+460.20 TO HR 3+500.40 LT	40.20	40.2
		HR 2+158.90 TO HR 3+550.40 RT	1391.50	1391.5
		BA 1+007.50 TO BA 1+020.00 LT	12.50	12.5
		BA 1+007.50 TO BA 1+020.00 RT	12.50	12.5
		KS 1+007.50 TO KS 1+015.00 LT	7.50	7.5
		KS 1+007.50 TO KS 1+015.00 RT	7.50	7.5
		WS 0+960.00 TO WS 0+989.00 LT	29.00	29
		WS 0+960.00 TO WS 0+995.50 RT	35.50	35.5
		WS 1+004.70 TO WS 1+050.00 LT	45.30	45.3
		WS 1+011.80 TO WS 1+050.00 RT	38.20	38.2
		MS 1+007.50 TO MS 1+085.00 LT	77.50	77.5
		MS 1+007.50 TO MS 1+085.00 RT	77.50	77.5
		SD 1+007.65 TO SD 1+020.00 LT	12.35	12.35
		SD 1+007.65 TO SD 1+020.00 RT	12.35	12.35
		SW 1+006.80 TO SW 1+016.00 LT	9.20	9.2
		SW 1+006.80 TO SW 1+016.00 RT	9.20	9.2
685.12	YELLOW FULL BARRIER	HR 1+140.00 TO HR 1+754.10	614	1228
		HR 1+774.40 TO HR 1+894.20	120	240
		HR 1+911.50 TO HR 1+958.80	47	95
		HR 1+978.00 TO HR 2+122.50	145	289
		HR 2+163.90 TO HR 2+497.20	333	667
		HR 2+514.89 TO HR 2+735.54	221	441
		HR 2+760.77 TO HR 3+443.50	683	1365
		HR 3+461.50 TO HR 3+500.40	39	78
		BA 0+985.00 TO BA 0+992.90	8	16
		BA 1+009.30 TO BA 1+020.00	11	21
		OS 0+985.00 TO OS 0+994.10	9	18
		KS 1+009.30 TO KS 1+015.00	6	11
		WR 0+960.00 TO WR 0+988.40	28	57
		WR 1+008.75 TO WR 1+050.00	41	83
		MS 1+008.70 TO MS 1+085.00	76	153
		SD 1+008.80 TO SD 1+020.00	11	22
		SW 1+007.90 TO SW 1+016.00	8	16
688.01	WHITE STOP LINE, TYPE A	BA 1+008.7	5	23
		BA 0+993.0	5	23
		OS 0+994.1	5	23
		KS 1+008.7	5	23
		HR 2+122.5	5	23
		WR 0+988.4	5	23
		WR 1+008.7	5	23
		HR 2+162.8	5	23
		MS 1+008.7	5	23
		SD 1+008.9	5	23
		SW 1+007.7	5	23
688.01	2.0m WIDE TYPE S CROSSWALK	BA 1+005.5	16	96
		HR 1+772.2	10	60
		HR 1+890.9	7	42
		KS 1+005.7	25	150
		HR 2+126.2	10	60
		WR 0+992.9	22	132
		WR 1+006.2	14	84
		HR 2+158.5	10	60
		MS 1+005.5	16	96
		SD 1+005.3	25	150

REMOVING, AND RELOCATING SIGNS

LOCATION	ITEM 647.61 REMOVAL SIZE I	ITEM 647.31 RELOCATE SIZE I
1-1	1	
1-2	1	
1-3	1	
2-1	1	
2-2	1	
2-3	1	
2-4	1	
2-5	1	1
2-6	1	
2-7	1	1
2-8		1
4-1	1	
4-2	1	
4-3	1	
4-4	1	
4-5`	1	
5-1	1	
5-2	1	1
6-1	1	
6-2	1	
7-1	1	
7-2	1	
7-3	1	1
7-4	1	
7-5	1	
7-6	1	
7-7	1	
7-8	1	
8-1	1	1
8-2	1	
9-1	1	
9-2	1	
9-3	1	
10-1	1	
10-2	1	
10-3	1	
11-1	1	
11-2	1	1
11-3	1	1
12-1	1	
13-1	1	
14-1	1	
14-2	1	
14-3	1	
14-4	1	
14-5	1	1
14-6	1	
14-7	1	1
14-9	1	1
TOTAL	48	11

LEGEND

SYMBOL	DESCRIPTION
GR MTD	GROUND MOUNTED
OH MTD	OVERHEAD MOUNTED
BR MTD	BRIDGE MOUNTED
PO MTD	POLE MOUNTED
B-B	BACK TO BACK
L T	NEW SIGN LOCATION NUMBER TEXT NUMBER
L	SIGN REMOVAL
L T	RELOCATE TO POSITION SHOWN
R	TO REMAIN

GENERAL NOTES

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NOTES:

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5) THE SIGN RELOCATION ITEM 647.31 SHALL INCLUDE REMOVAL OF THE SIGN SPECIFIED AND IT'S SIGN ASSEMBLY IN ADDITION TO REINSTALLATION AT THE NEW LOCATION SHOWN. ANY REMAINING VACANT SIGN SUPPORTS AND THEIR FOUNDATIONS SHALL BE REMOVED UNDER ITEM 647.61. RELOCATED SIGNS SHALL BE INSTALLED ON NEW SIGN SUPPORTS, TO BE PAID UNDER 645.81.

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-16-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN TEXT DATA SHEETS

FISHERASSOCIATES

DRAWING NO. SDS- 2
SHEET NO. 113 OF 130

DOCUMENT NAME: $FILENAME$

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

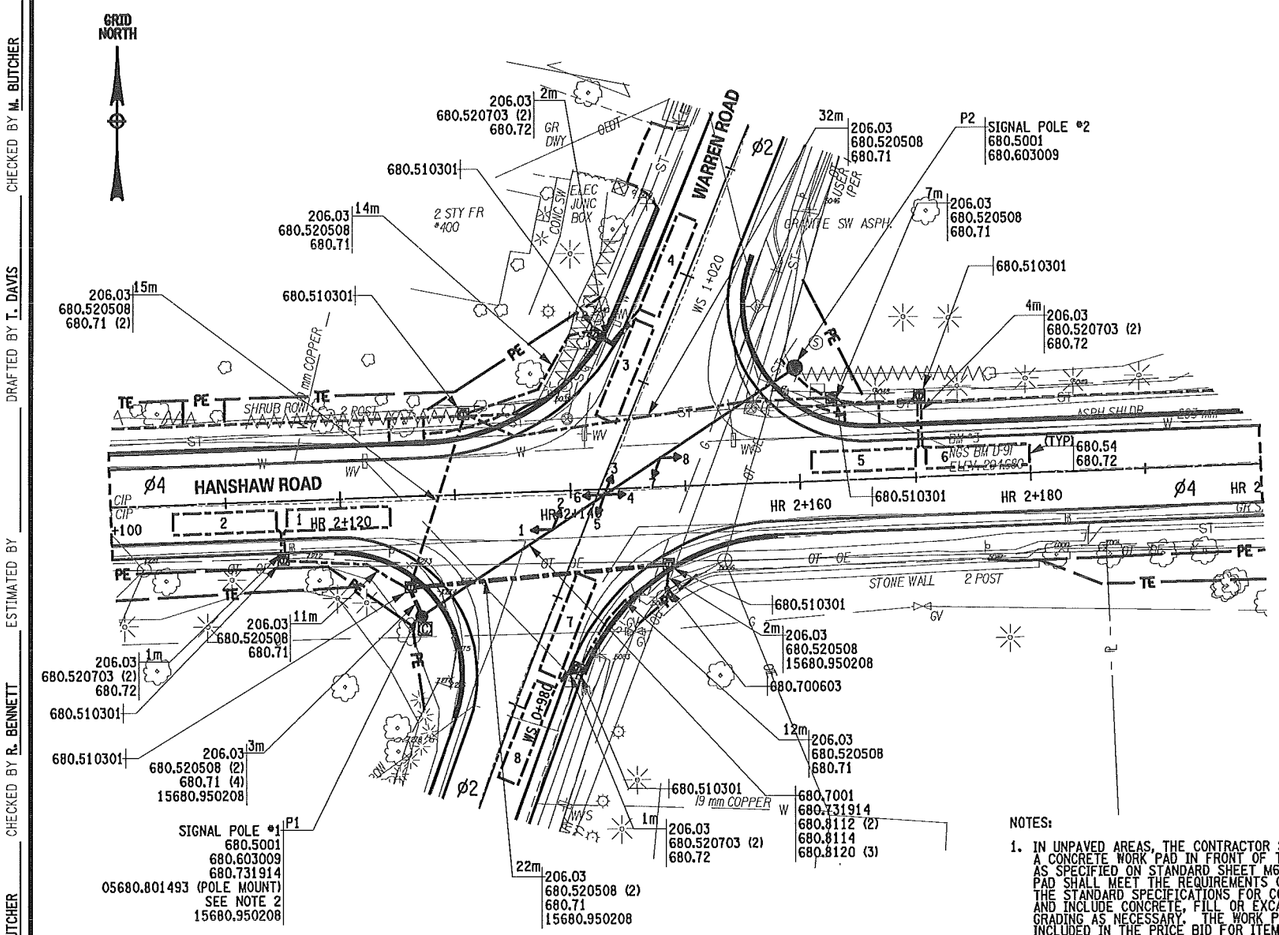


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	M	124
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CM	5
680.510301	PULLBOX-CIRCULAR, 600 mm DIAMETER, REINFORCED CONCRETE	EA	8
680.520508	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 3 NPS	M	143
680.520703	CONDUIT, RIGID PLASTIC, CLASS 1 OR 2, 1 NPS	M	16
680.54	INDUCTANCE LOOP INSTALLATION	M	191
680.603009	TRAFFIC SIGNAL POLE-SPAN WIRE 30 KILONEWTON LOAD, 9 METER LENGTH	EA	2
680.7001	SINGLE SPANWIRE ASSEMBLY	EA	1
680.700603	RISER ASSEMBLY, 1 NPS DIAMETER	EA	1
680.71	SHIELDED LEAD-IN CABLE	M	182
680.72	INDUCTANCE LOOP WIRE	M	579
680.731914	SIGNAL CABLE 19 CONDUCTORS, 14 AWG	M	48
05 680.801493	NEMA TS 2 SOLID STATE MENU DRIVEN ACTUATED CONTROLLER AND CABINET	EA	1
680.810101	TRAFFIC SIGNAL MODULE - 300 mm, RED BALL, LED	EA	8
680.810103	TRAFFIC SIGNAL MODULE - 300 mm, YELLOW BALL, LED	EA	8
680.810105	TRAFFIC SIGNAL MODULE - 300 mm, GEEN BALL, LED	EA	8
680.810601	TRAFFIC SIGNAL SECTION - POLYCARBONATE, TYPE I, 300 mm	EA	24
680.8112	TRAFFIC SIGNAL BRACKET ASSEMBLY - 2 WAY	EA	2
680.8114	TRAFFIC SIGNAL BRACKET ASSEMBLY - 4 WAY	EA	1
680.8120	TRAFFIC SIGNAL DISCONNECT HANGER	EA	3
15 680.950208	SERVICE CABLE 2 CONDUCTOR NO. 08 AWG	M	55

TABLE OF OPERATIONS

PHASE	SIGNAL FACES 1	2	3	4	5	6	7	8
Ø2	R	G	G	R	G	R	G	R
CHANGE	R	Y	Y	R	Y	R	Y	R
Ø4	G	R	R	G	R	G	R	G
CHANGE	Y	R	R	Y	R	Y	R	Y
EMERGENCY FLASH	Y	R	R	Y	R	Y	R	Y

AFTER INSTALLATION THE CONTRACTOR SHALL PLACE THE SIGNAL ON FLASH MODE

OPERATIONS LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
R	CIRCULAR RED	Y	CIRCULAR YELLOW	G	CIRCULAR GREEN
R	LEFT RED ARROW	Y	LEFT YELLOW ARROW	G	LEFT GREEN ARROW
R	RIGHT RED ARROW	Y	RIGHT YELLOW ARROW	G	RIGHT GREEN ARROW
R	FLASHING RED	Y	FLASHING YELLOW	G	VERTICAL GREEN ARROW
R	CIRCULAR RED STROBE LIGHT	Y G	FIBEROPTIC OR LED DUAL INDICATION LEFT ARROW	Y G	FIBEROPTIC OR LED DUAL INDICATION RIGHT ARROW
88	BIMODAL HAND/MAN	88	COUNT DOWN TIMER	Ø	PHASE
	HAND (DONT WALK)		MAN (WALK)		FLASHING HAND (DONT WALK)
OVL	OVERLAP	DC	DOUBLE CLEARANCE	PED	PEDESTRIAN

680.810101
680.810601 R

680.810103
680.810601 Y

680.810105
680.810601 G

1,2,3,4,
5,6,7,8

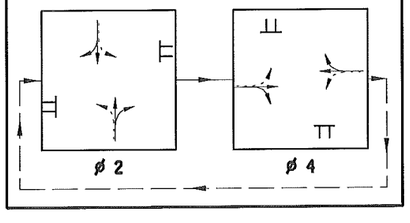
SIGNAL HEAD DETAIL

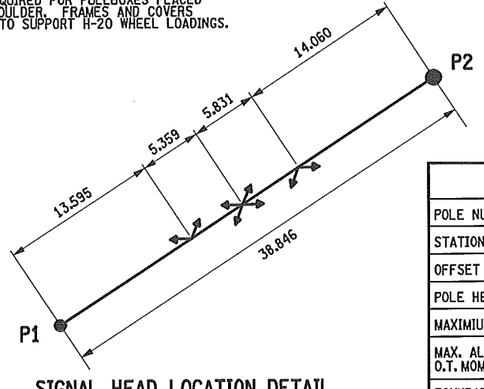
NOTES:

1. IN UNPAVED AREAS, THE CONTRACTOR SHALL INSTALL A CONCRETE WORK PAD IN FRONT OF THE CABINET DOOR AS SPECIFIED ON STANDARD SHEET M680-4. THE WORK PAD SHALL MEET THE REQUIREMENTS OF SECTION 608 OF THE STANDARD SPECIFICATIONS FOR CONCRETE SIDEWALK, AND INCLUDE CONCRETE, FILL OR EXCAVATION, AND ALL GRADING AS NECESSARY. THE WORK PAD SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 680.80149305.

2. PULLBOX BASES ARE REQUIRED FOR PULLBOXES PLACED IN THE ROADWAY OR SHOULDER. FRAMES AND COVERS SHALL BE HEAVY DUTY TO SUPPORT H-20 WHEEL LOADINGS.

PREFERENTIAL PHASING SEQUENCE





SIGNAL HEAD LOCATION DETAIL

POLE TABLE

POLE NUMBER	P1	P2
STATION	HR 2+126	HR 2+160
OFFSET (m)	10.4 R	9.9 L
POLE HEIGHT (m)	9	9
MAXIMIUM LOAD (KN)	30	30
MAX. ALLOWABLE O.T. MOMENT (KN-m)	244	244
FOUNDATION CODE	11-K	11-K

TABLE OF INDUCTANCE LOOP DESIGN

DETECTOR	PHASE	LOOP SIZE (m)	TURNS	WIRED
1	Ø4	1.8 x 9.0	3	PARALLEL
2	Ø4	1.8 x 9.0	3	PARALLEL
3	Ø2	1.8 x 9.0	3	PARALLEL
4	Ø2	1.8 x 9.0	3	PARALLEL
5	Ø4	1.8 x 9.0	3	PARALLEL
6	Ø4	1.8 x 9.0	3	PARALLEL
7	Ø2	1.8 x 9.0	3	PARALLEL
8	Ø2	1.8 x 9.0	3	PARALLEL

5 0 5 10 15 20 25 m
SCALE

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: $FILENAME$

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

TRAFFIC SIGNAL PLAN

FISHER ASSOCIATES

DRAWING NO. TSP- 1
SHEET NO. 114 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER
ESTIMATED BY

FILE NAME = DGN$SPEC
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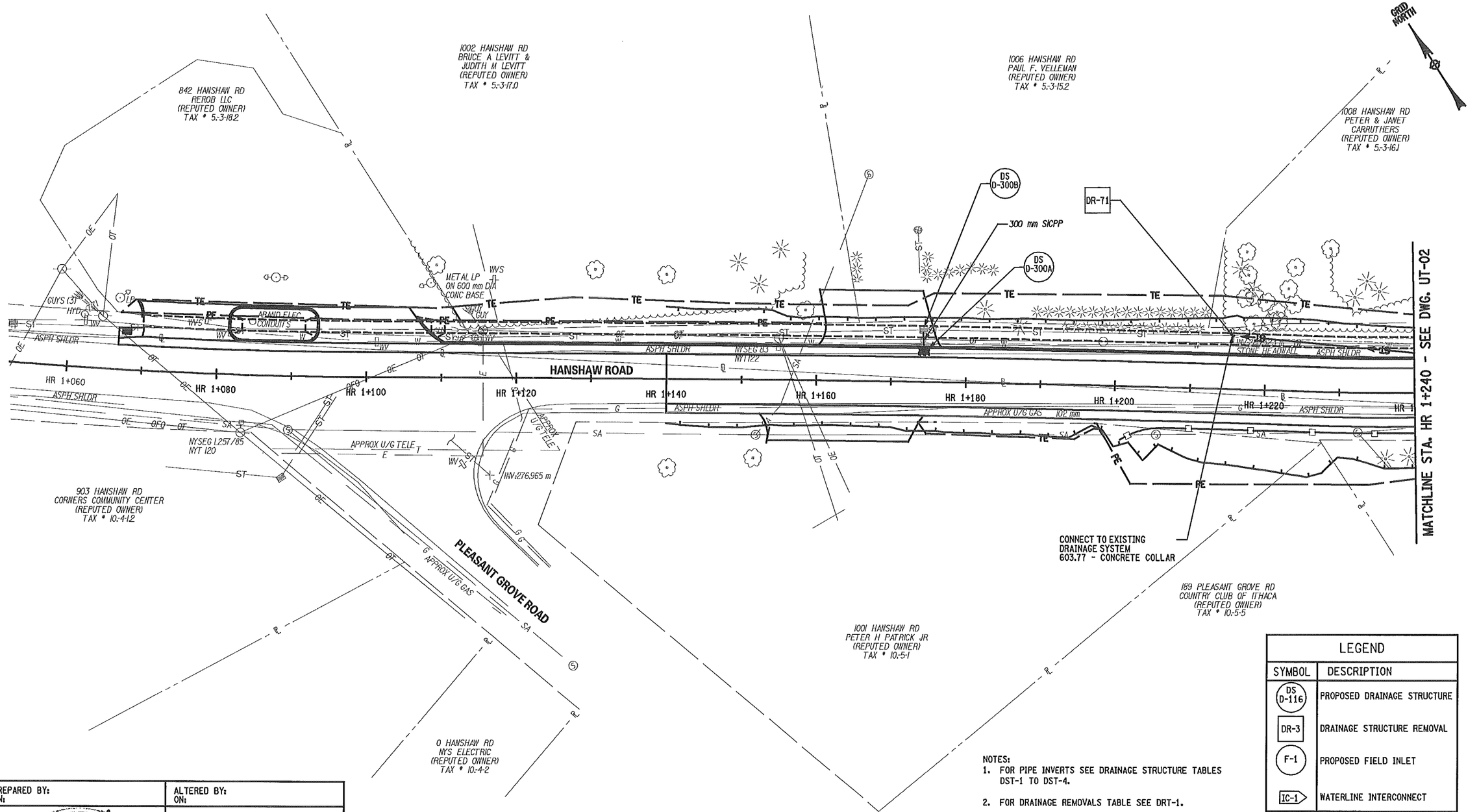


NOTES:

1. FOR PIPE INVERTS SEE DRAINAGE STRUCTURE TABLES DST-1 TO DST-4.
2. FOR DRAINAGE REMOVALS TABLE SEE DRT-1.
3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

LEGEND

SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

0 5 10 15 20 25 m
SCALE

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: @FILENAME@

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

UTILITY PLANS

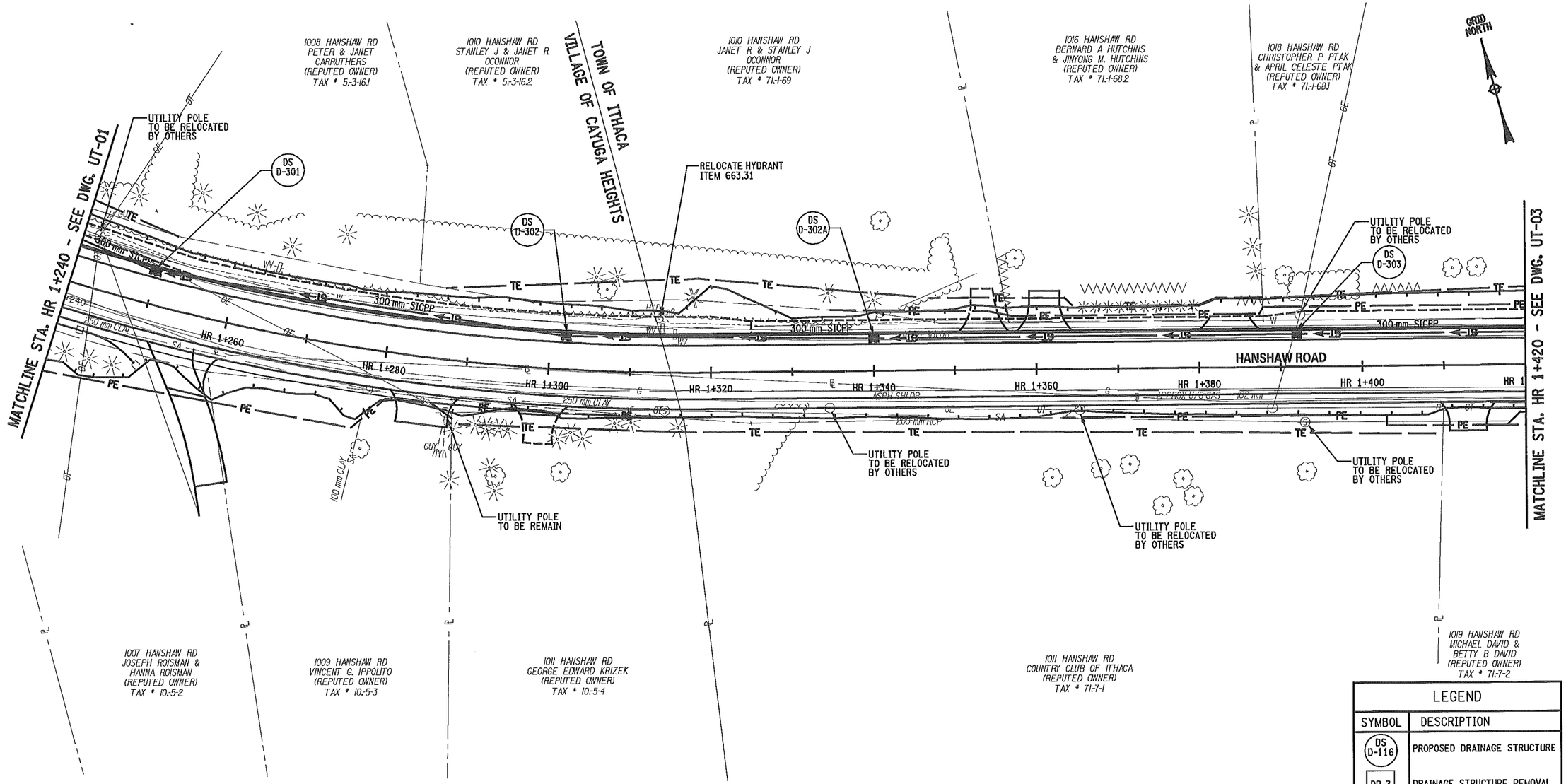
FISHER ASSOCIATES

DRAWING NO. UT-01
SHEET NO. 115 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
ESTIMATED BY R. BENNETT
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER
CHECKED BY R. BENNETT

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



NOTES:
1. FOR PIPE INVERTS SEE DRAINAGE STRUCTURE TABLES DST-1 TO DST-4.
2. FOR DRAINAGE REMOVALS TABLE SEE DRT-1.
3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

LEGEND	
SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

0 5 10 15 20 25 m
SCALE

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

UTILITY PLANS

FISHER ASSOCIATES

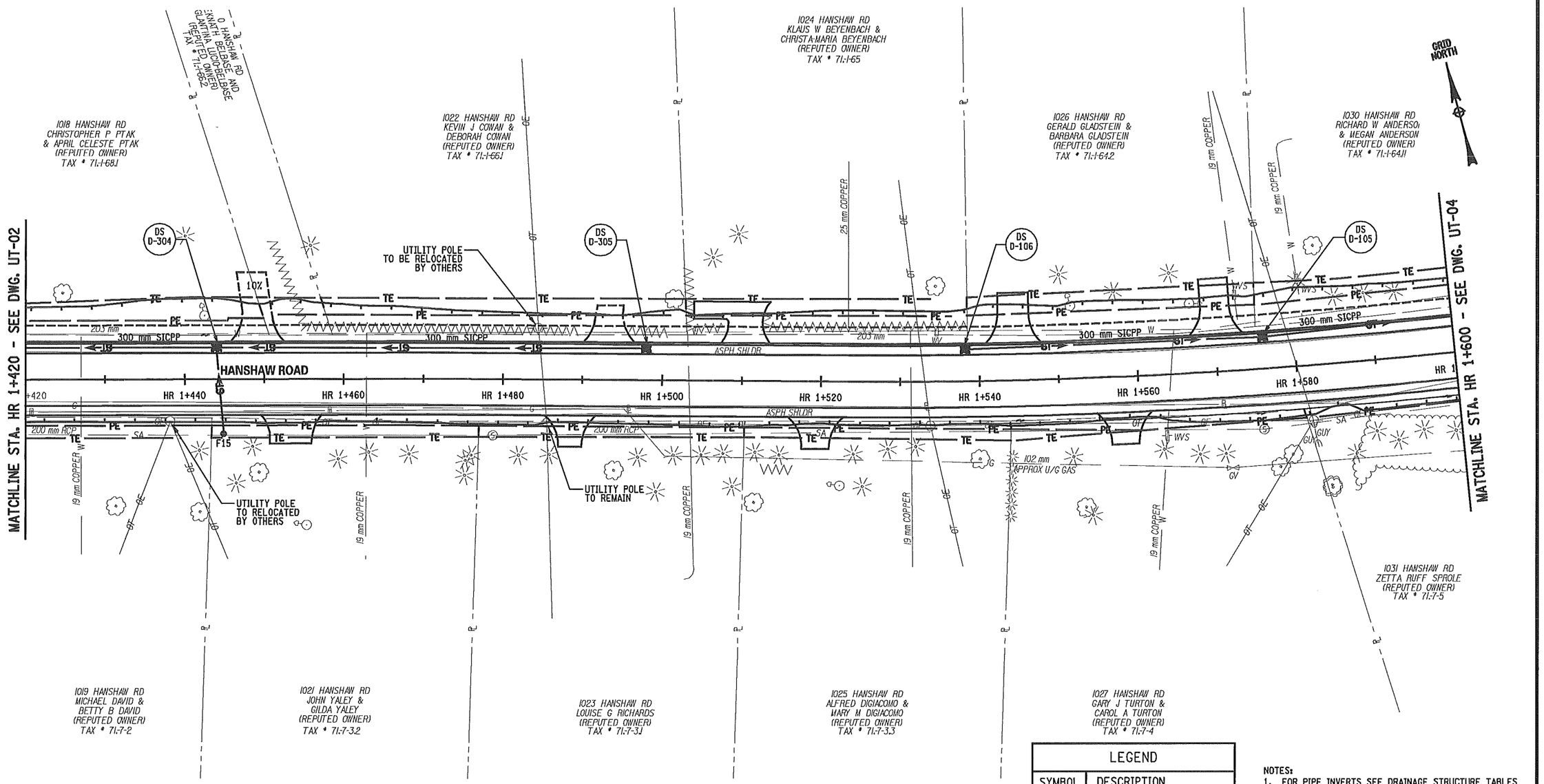
DRAWING NO. UT-02
SHEET NO. 116 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: @FILENAME@

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



LEGEND	
SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

NOTES:
1. FOR PIPE INVERTS SEE DRAINAGE STRUCTURE TABLES DST-1 TO DST-4.
2. FOR DRAINAGE REMOVALS TABLE SEE DRT-1.
3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

0 5 10 15 20 25 m
SCALE

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

UTILITY PLANS

FISHER ASSOCIATES

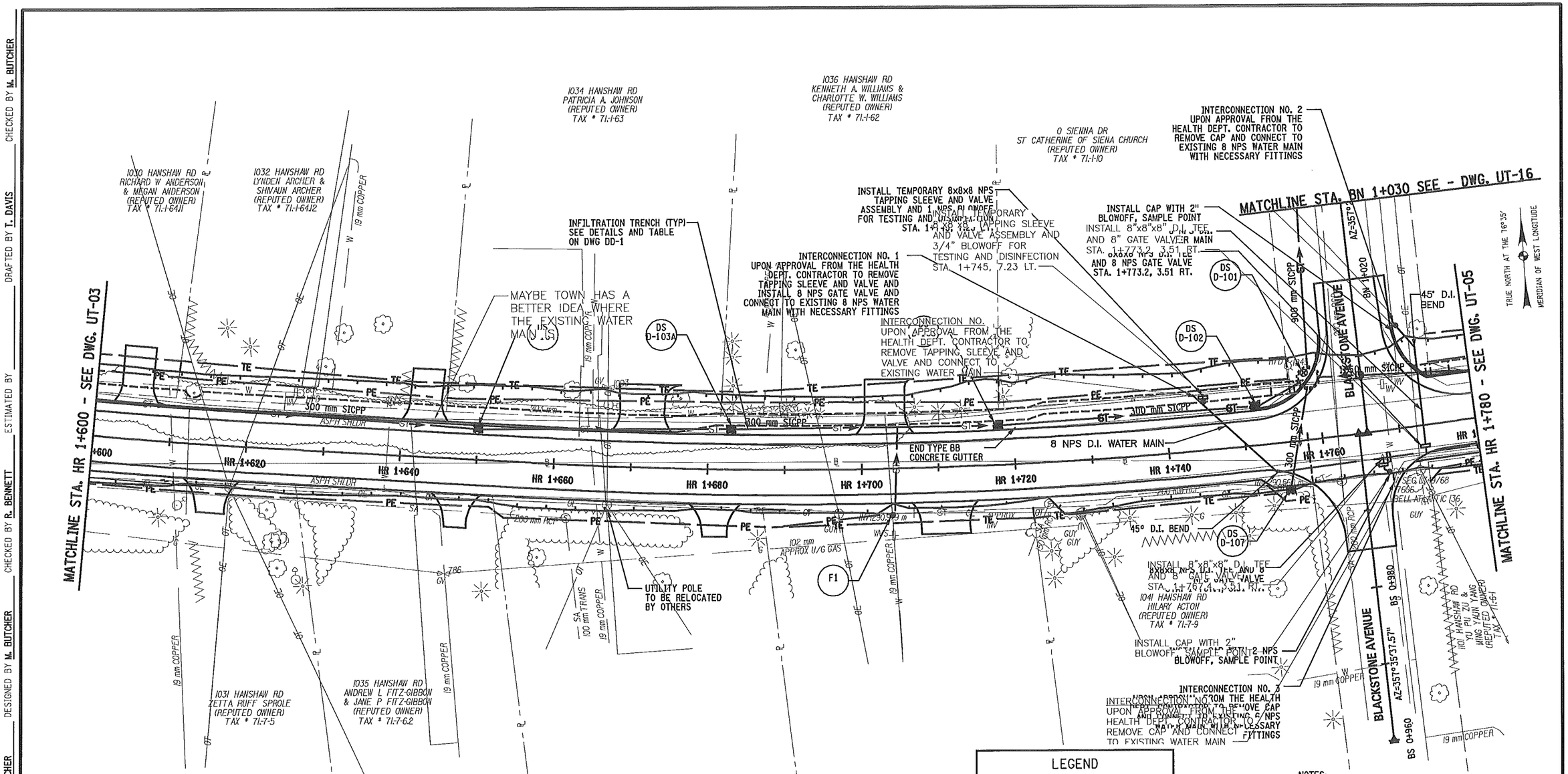
DRAWING NO. UT-03
SHEET NO. 117 OF 130

DOCUMENT NAME: ◊FILENAME◊

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER

FILE NAME = DGN◊SPEC
DATE/TIME = 5/14/2013
USER = MARKB



LEGEND	
SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

NOTES:

1. FOR PIPE INVERTS SEE DRAINAGE STRUCTURE TABLES DST-1 TO DST-4.
2. FOR DRAINAGE REMOVALS TABLE SEE DRT-1.
3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

0 5 10 15 20 25 m
SCALE

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

UTILITY PLANS

FISHERASSOCIATES

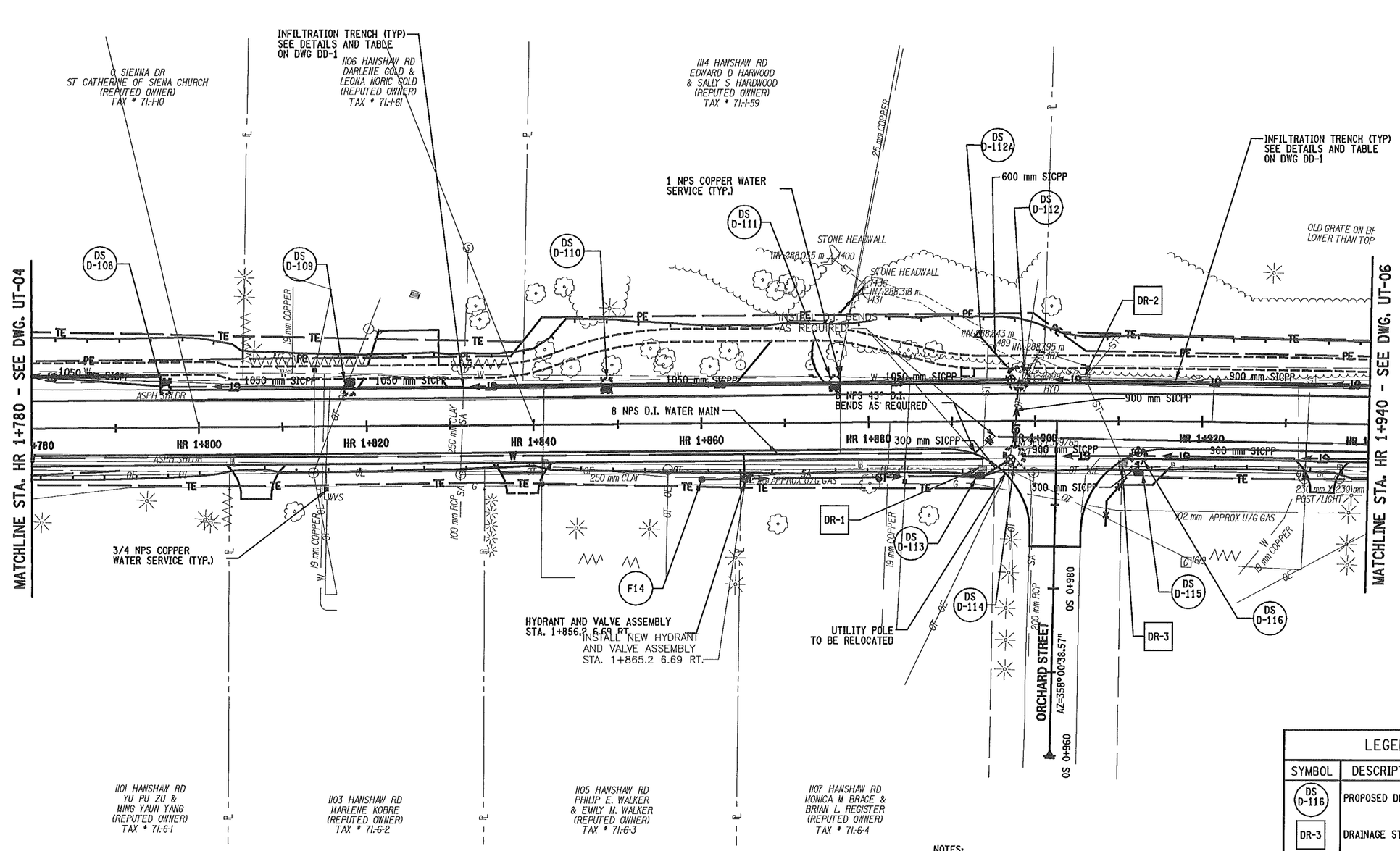
DRAWING NO. UT-04
SHEET NO. 118OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: 375325D_UTI.DGN

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY M. BUTCHER DRAFTED BY T. DAVIS CHECKED BY R. BENNETT ESTIMATED BY

FILE NAME = DGN*SPEC
DATE/TIME = 5/14/2013
USER = MARKB



NOTES:

1. FOR PIPE INVERTS SEE DRAINAGE STRUCTURE TABLES DST-1 TO DST-4.
2. FOR DRAINAGE REMOVALS TABLE SEE DRT-1.
3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

LEGEND	
SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

0 5 10 15 20 25 m
SCALE

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

UTILITY PLANS

FISHERASSOCIATES

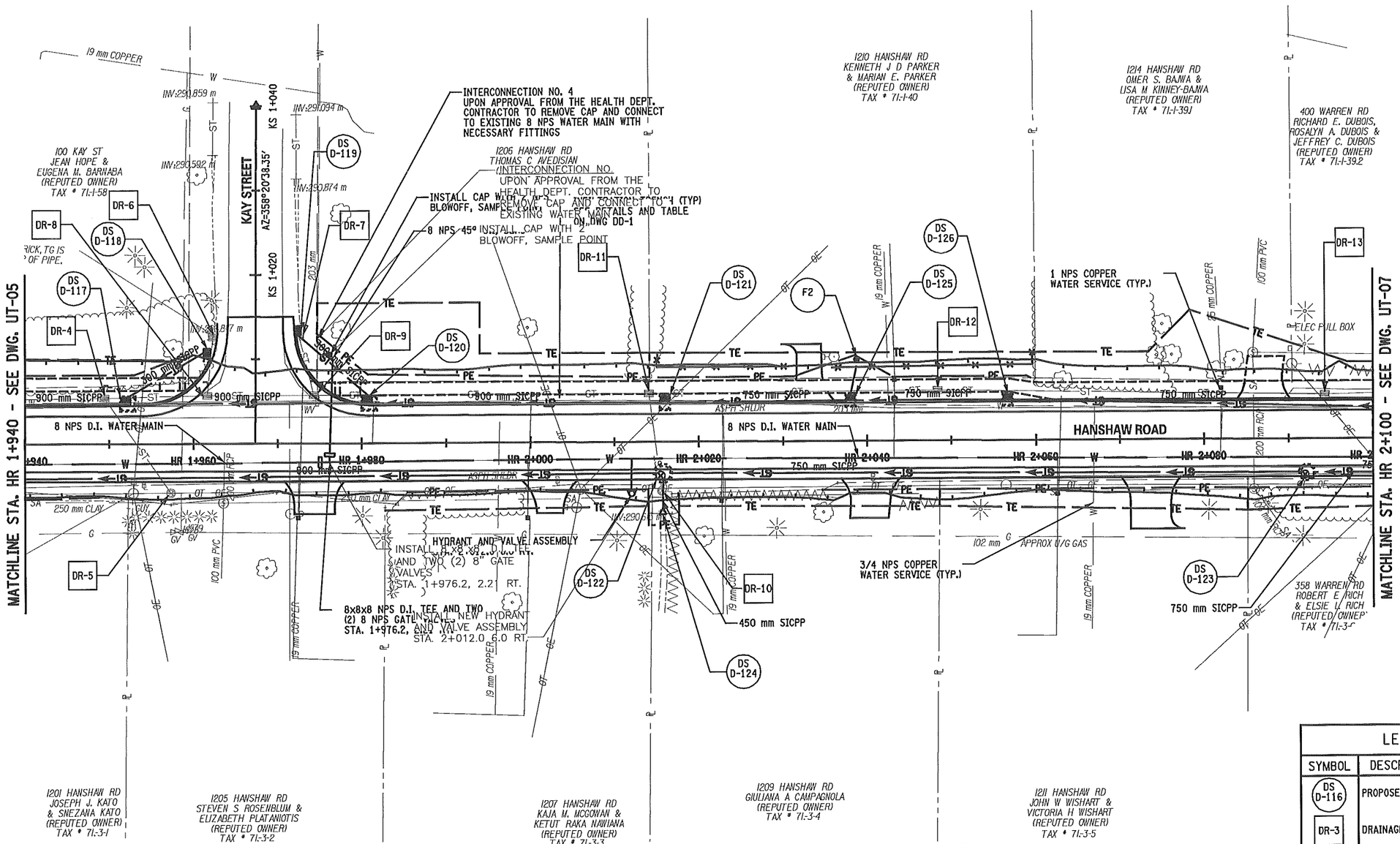
DRAWING NO. UT-05
SHEET NO. 119 OF 130

DOCUMENT NAME: 375325E_UTI.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



LEGEND	
SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

0 5 10 15 20 25 m
SCALE

NOTES:
1. FOR PIPE INVERTS SEE DRAINAGE STRUCTURE TABLES DST-1 TO DST-4.
2. FOR DRAINAGE REMOVALS TABLE SEE DRT-1.
3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

PREPARED BY: ON:

ALTERED BY: ON:

STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-28-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

UTILITY PLANS

FISHER ASSOCIATES

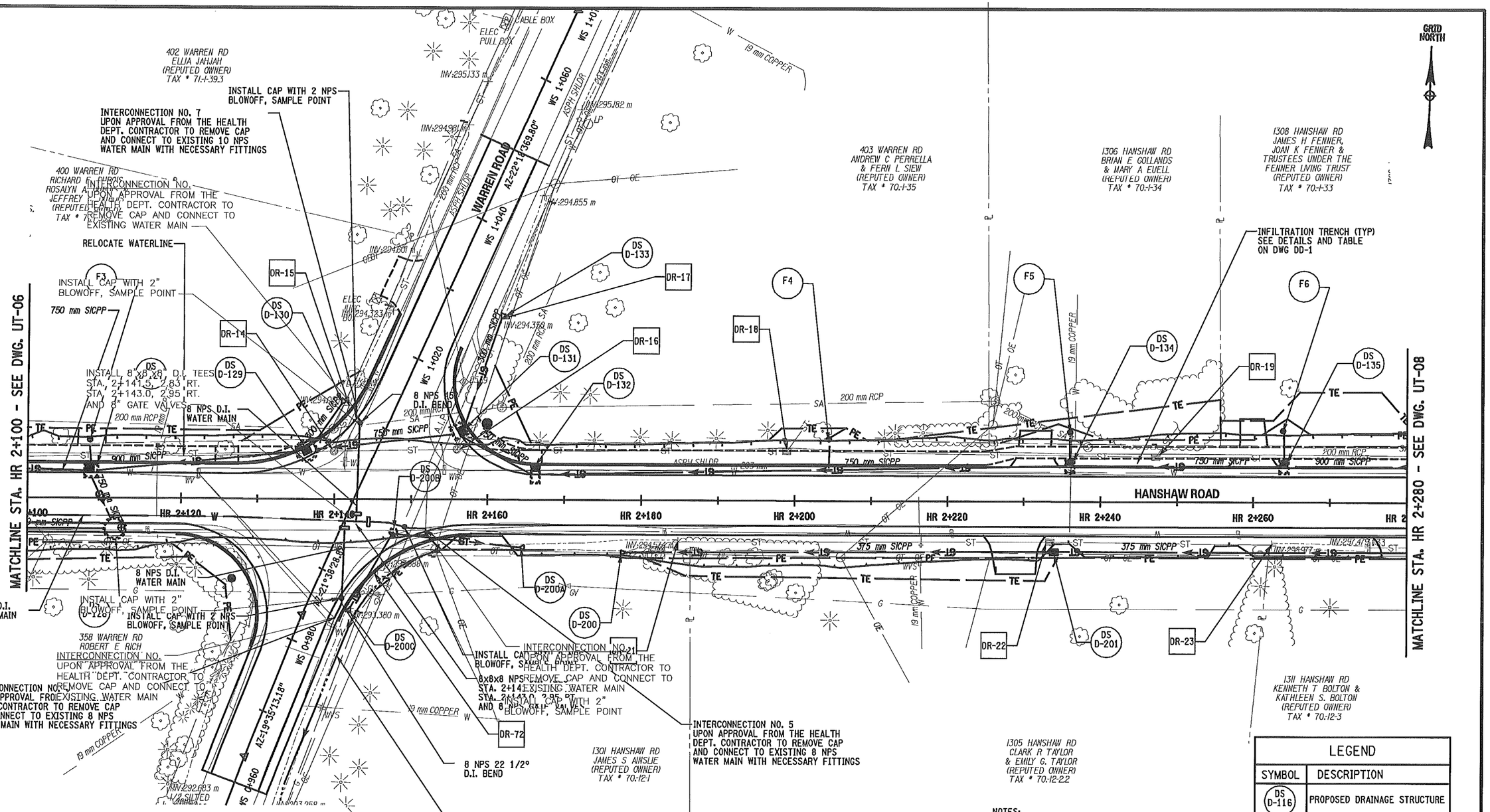
DRAWING NO. UT-06
SHEET NO. 120 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: 375325F_UTI.DGN

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



LEGEND

SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

NOTES:

1. FOR PIPE INVERTS SEE DRAINAGE STRUCTURE TABLES DST-1 TO DST-4.
2. FOR DRAINAGE REMOVALS TABLE SEE DRT-1.
3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

0 5 10 15 20 25 m
SCALE

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

UTILITY PLANS

FISHERASSOCIATES

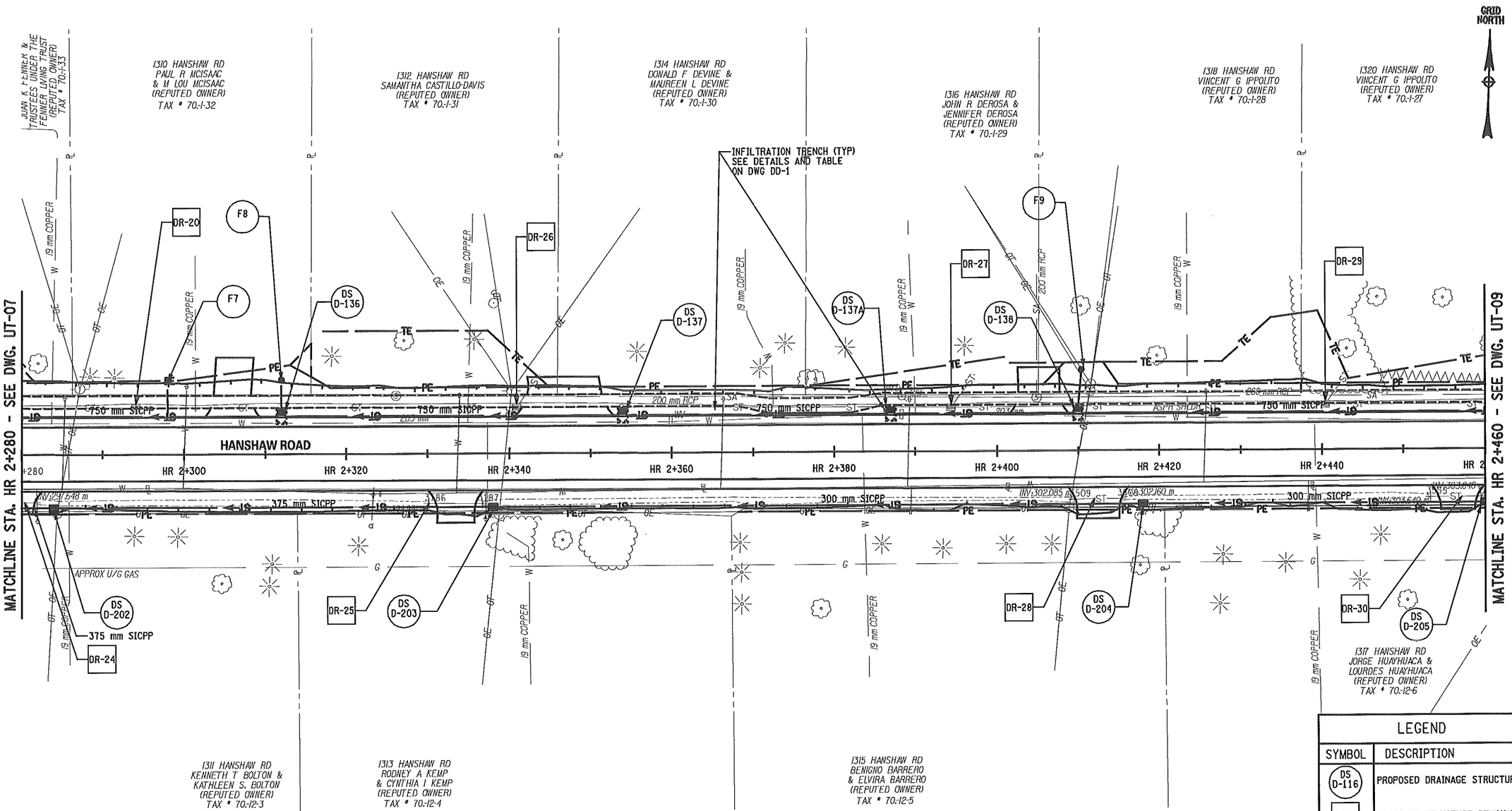
DRAWING NO. UT-07
SHEET NO. 121 OF 130

DOCUMENT NAME: 3753256_UTI.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



NOTES:
1. FOR PIPE INVERTS SEE DRAINAGE STRUCTURE TABLES DST-1 TO DST-4.
2. FOR DRAINAGE REMOVALS TABLE SEE DRT-1.
3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

LEGEND

SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

0 5 10 15 20 25 m
SCALE

PREPARED BY: ON:
ALTERED BY: ON:

STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-28-2013

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109
TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25
PS&E DATE
MAY 2013

BRIDGES
CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

UTILITY PLANS

FISHER ASSOCIATES

DRAWING NO. UT-08
SHEET NO. 122 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

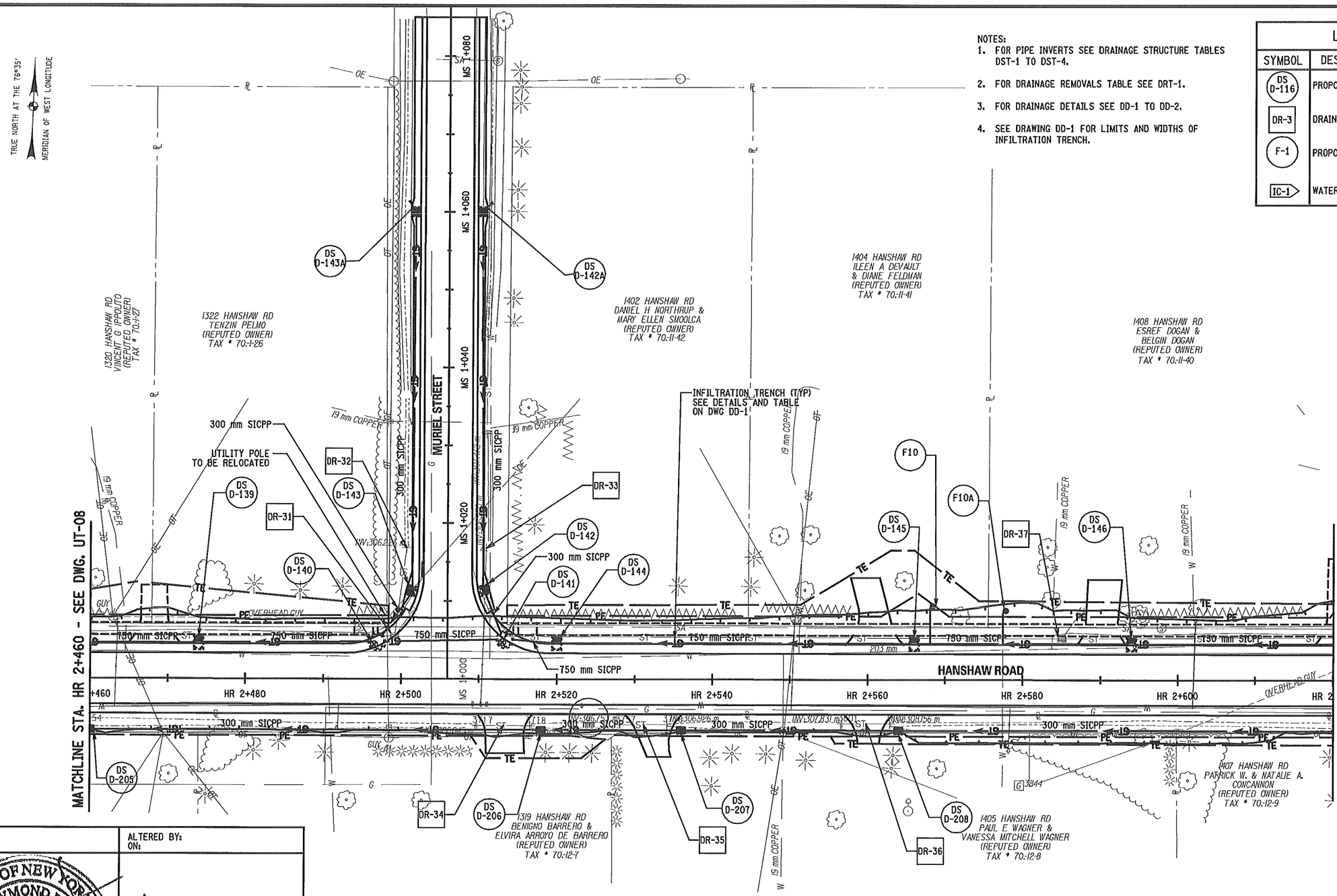
DOCUMENT NAME: ⊕FILENAME⊕

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER

FILE NAME = DGN⊕SPEC
DATE/TIME = 5/14/2013
USER = MARKB

NOTES:
1. FOR PIPE INVERTS SEE DRAINAGE STRUCTURE TABLES DST-1 TO DST-4.
2. FOR DRAINAGE REMOVALS TABLE SEE DRT-1.
3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

LEGEND	
SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT



DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER
ESTIMATED BY R. BENNETT CHECKED BY M. BUTCHER
DESIGNED BY M. BUTCHER
JOB MANAGER M. BUTCHER
DESIGN SUPERVISOR D. JUDSON

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER
5-28-2013

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: $FILENAME$

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

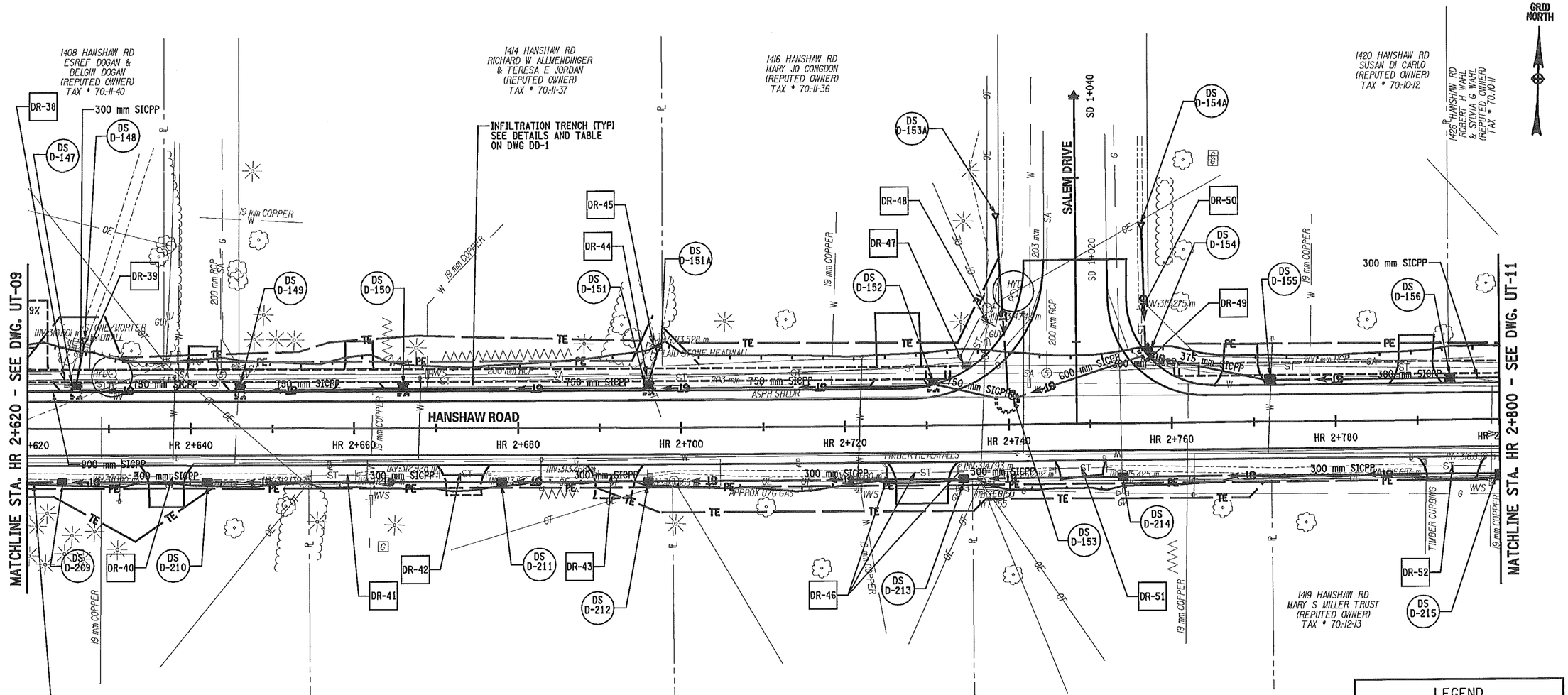
ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

UTILITY PLANS

FISHER ASSOCIATES

DRAWING NO. UT-09
SHEET NO. 123 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3



LEGEND	
SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

NOTES:
1. FOR PIPE INVERTS SEE DRAINAGE STRUCTURE TABLES DST-1 TO DST-4.
2. FOR DRAINAGE REMOVALS TABLE SEE DRT-1.
3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

0 5 10 15 20 25 m
SCALE

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: ◊FILENAME◊

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

UTILITY PLANS

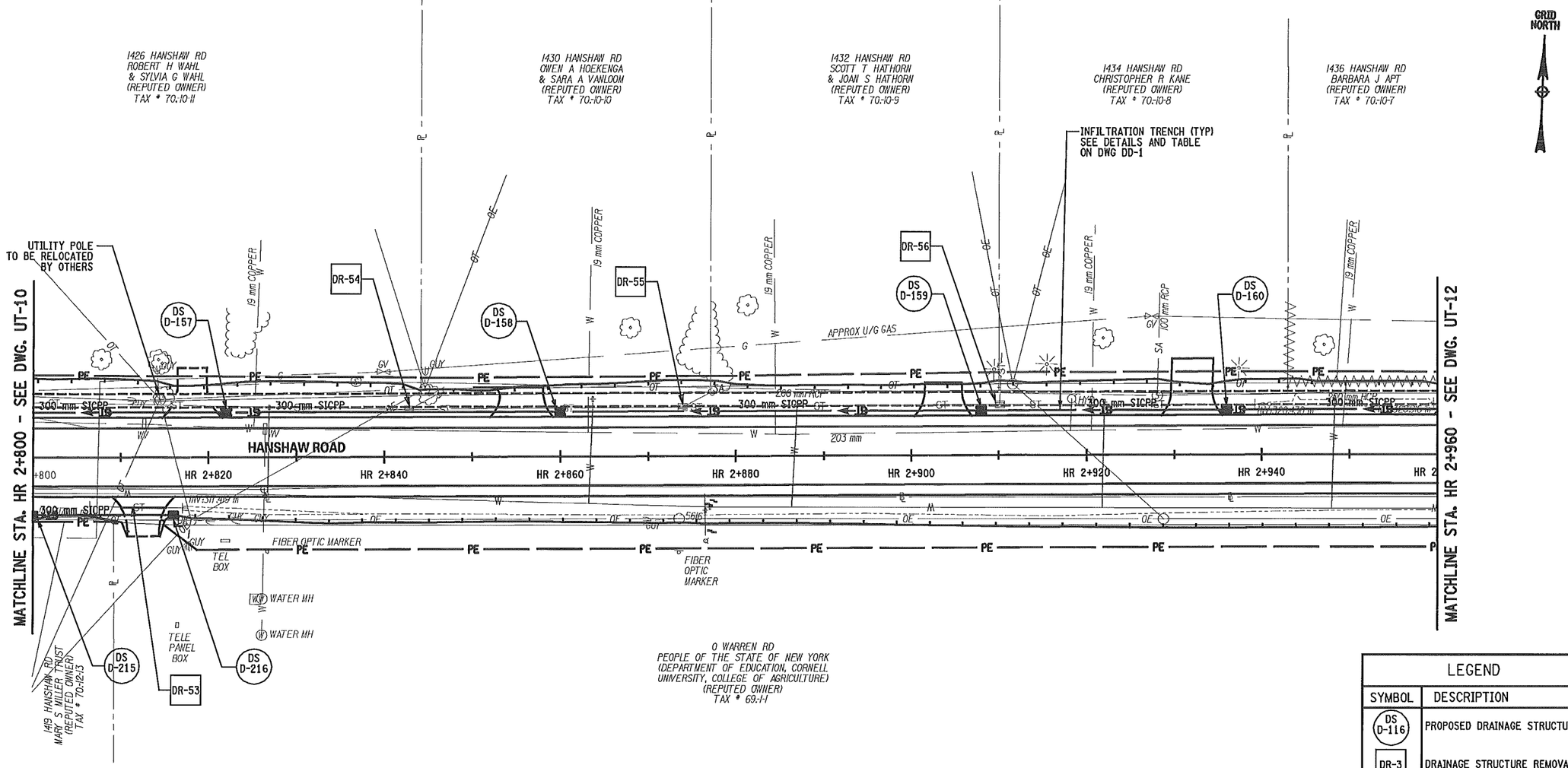
FISHER ASSOCIATES

DRAWING NO. UT-10
SHEET NO. 124 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



LEGEND	
SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

NOTES:
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3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

0 5 10 15 20 25 m
SCALE

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: @FILENAME@

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

UTILITY PLANS

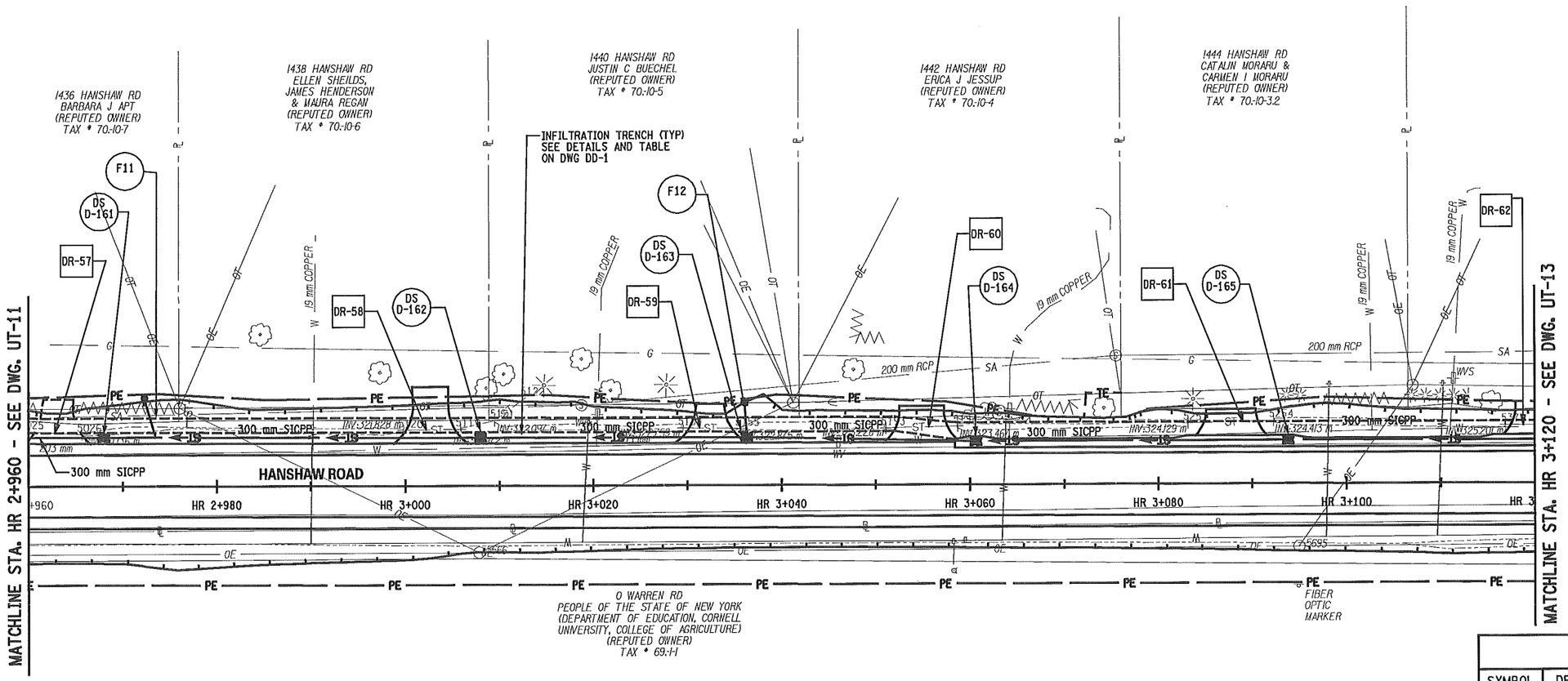
FISHERABBOTTATES

DRAWING NO. UT-11
SHEET NO. 125 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER



LEGEND	
SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

NOTES:
1. FOR PIPE INVERTS SEE DRAINAGE STRUCTURE TABLES DST-1 TO DST-4.
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3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

0 5 10 15 20 25 m
SCALE

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: $FILENAME$

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

UTILITY PLANS

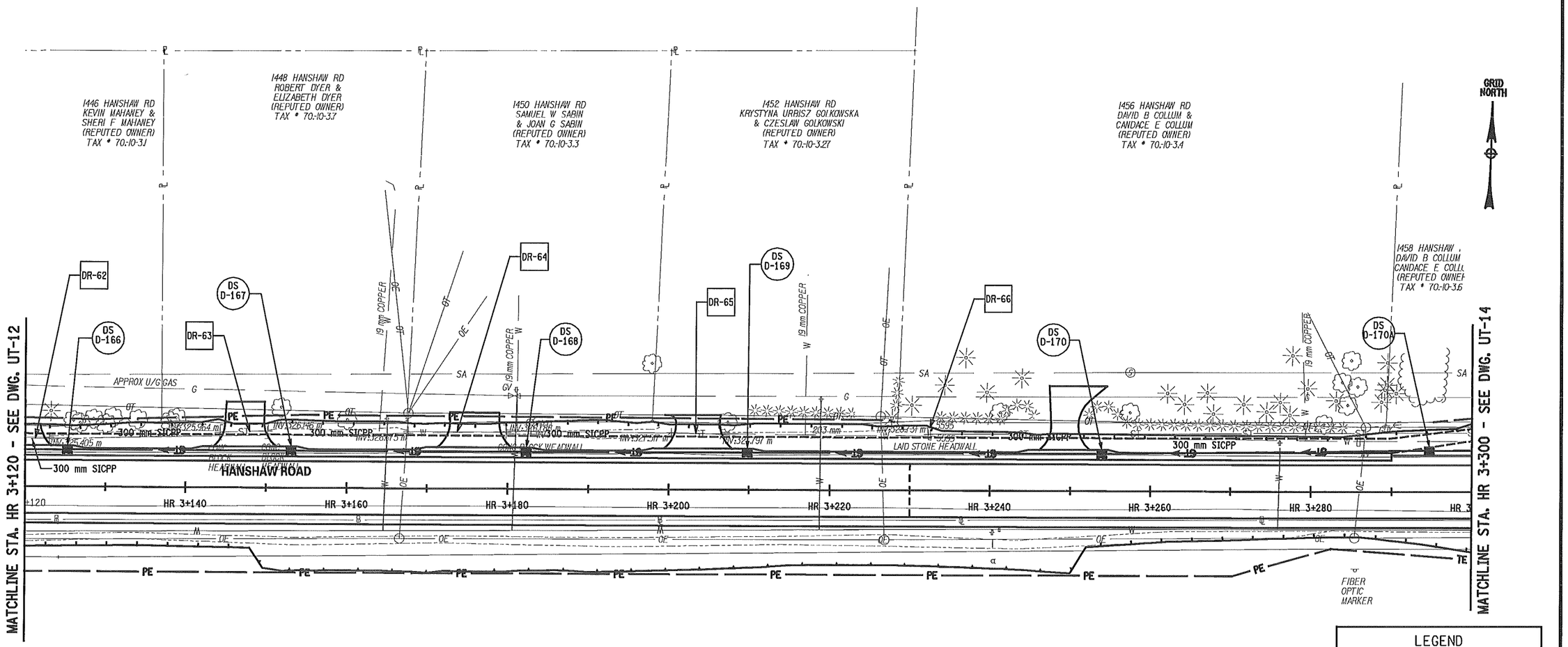
FISHER ASSOCIATES

DRAWING NO. UT-12
SHEET NO. 126 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



LEGEND	
SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

NOTES:
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3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

0 5 10 15 20 25 m
SCALE

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: $FILENAME$

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

UTILITY PLANS

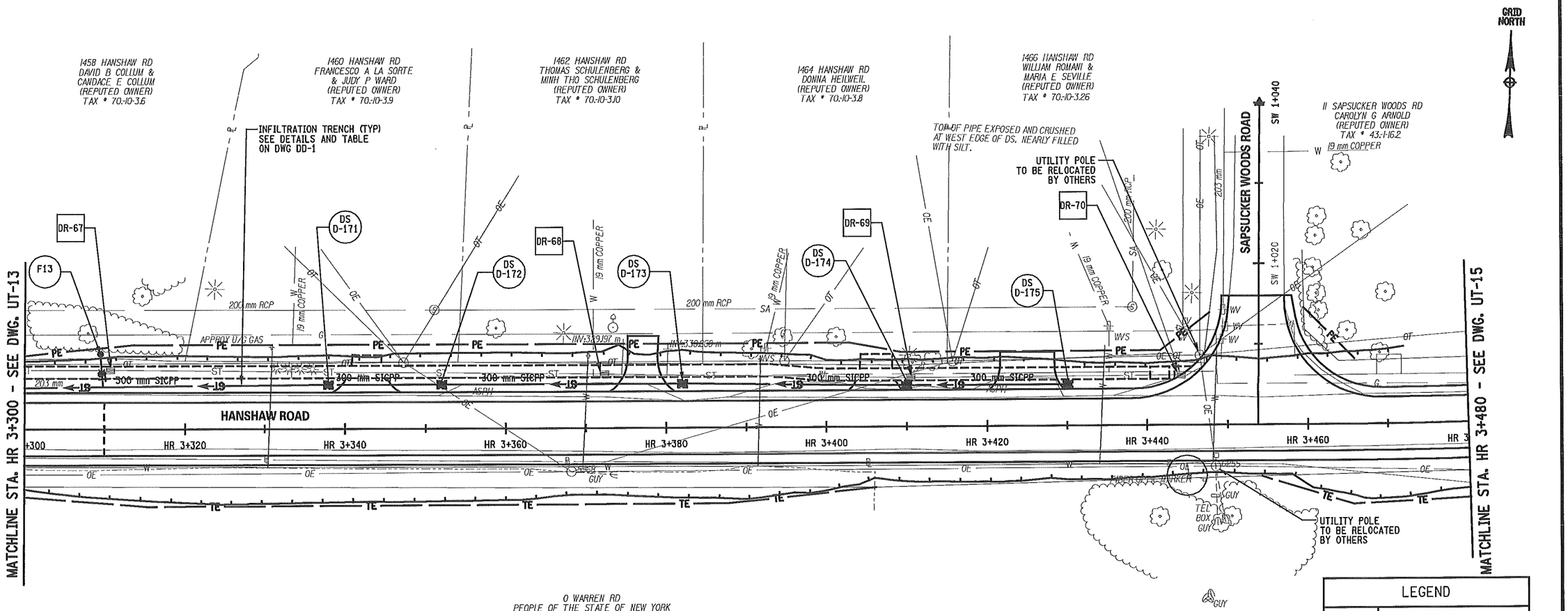
FIBHERASSOCIATES

DRAWING NO. UT-13
SHEET NO. 127 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY M. BUTCHER
DRAFTED BY T. DAVIS
ESTIMATED BY
CHECKED BY R. BENNETT

FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB



LEGEND	
SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

0 5 10 15 20 25 m
SCALE

NOTES:
1. FOR PIPE INVERTS SEE DRAINAGE STRUCTURE TABLES DST-1 TO DST-4.
2. FOR DRAINAGE REMOVALS TABLE SEE DRT-1.
3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

PREPARED BY: ON:
ALTERED BY: ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: $FILENAME$

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COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

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UTILITY PLANS

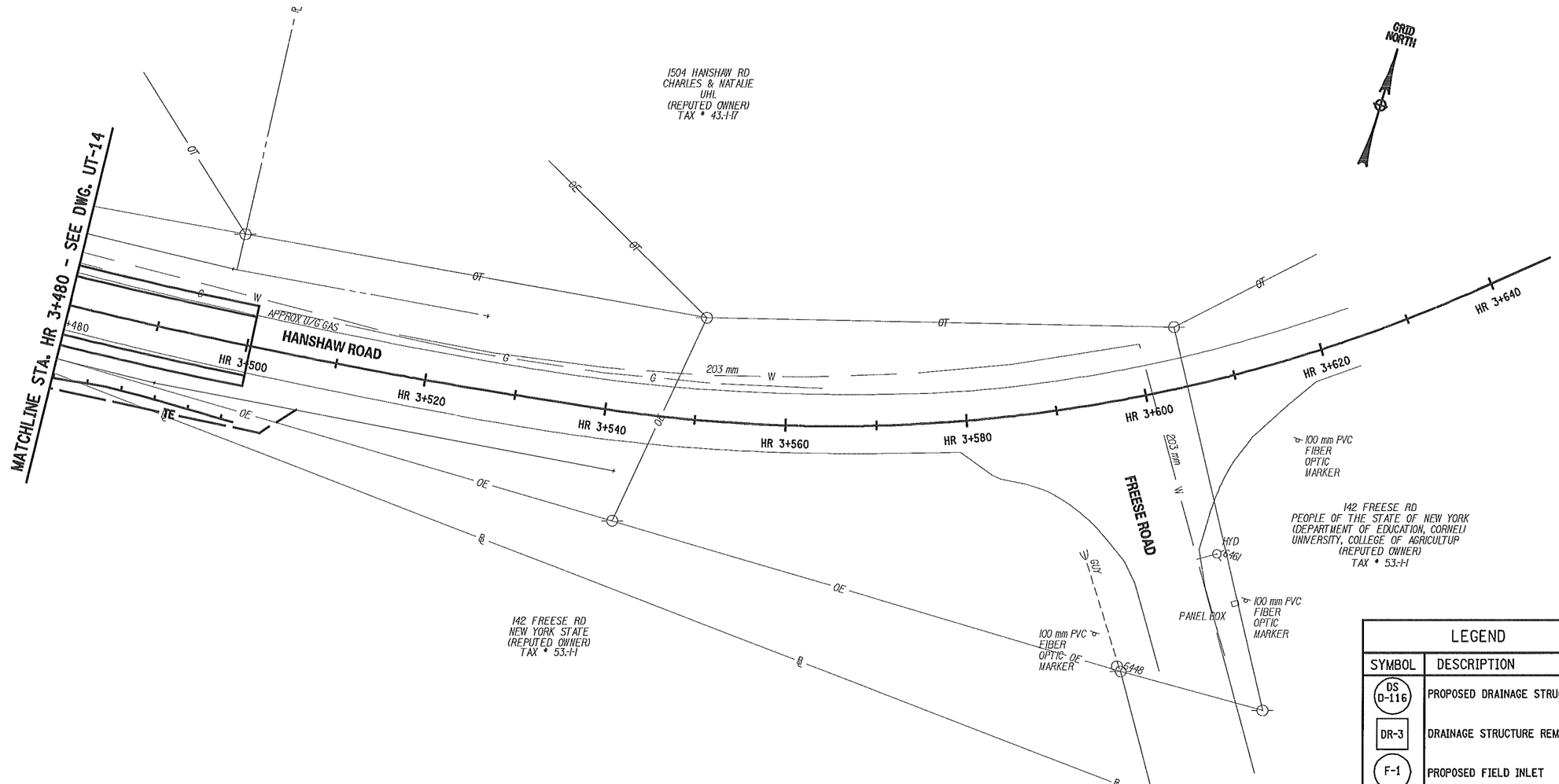
FISHER ASSOCIATES

DRAWING NO. UT-14
SHEET NO. 128 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON
JOB MANAGER M. BUTCHER
DESIGNED BY M. BUTCHER
CHECKED BY R. BENNETT
ESTIMATED BY
DRAFTED BY T. DAVIS
CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



NOTES:

1. FOR PIPE INVERTS SEE DRAINAGE STRUCTURE TABLES DST-1 TO DST-4.
2. FOR DRAINAGE REMOVALS TABLE SEE DRT-1.
3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

LEGEND	
SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

0 5 10 15 20 25 m
SCALE

PREPARED BY: ON:	ALTERED BY: ON:
STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013	

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

CULVERTS

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UTILITY PLANS

FISHER ASSOCIATES

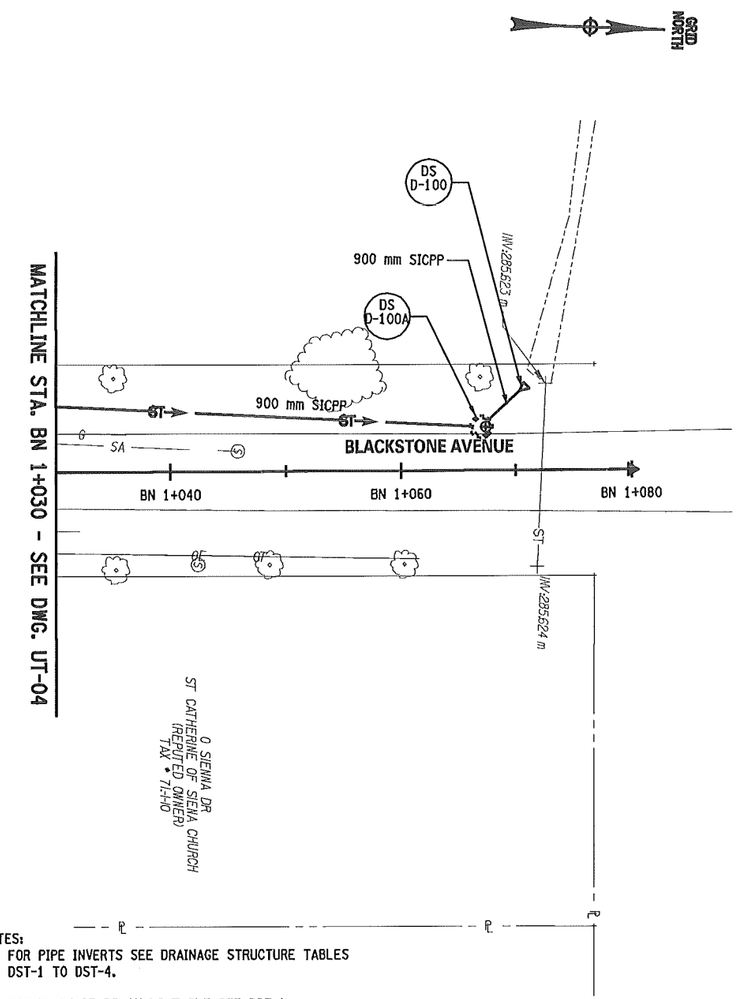
DRAWING NO. UT-15
SHEET NO. 129 OF 130

DOCUMENT NAME: $FILENAME$

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

FILE NAME = DGN$SPEC
DATE/TIME = 5/14/2013
USER = MARKB



MATCHLINE STA. BN 1+030 - SEE DWG. UT-04

NOTES:
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3. FOR DRAINAGE DETAILS SEE DD-1 TO DD-2.
4. SEE DRAWING DD-1 FOR LIMITS AND WIDTHS OF INFILTRATION TRENCH.

0 5 10 15 20 25 m
SCALE

PROPOSED PRESSURE/LEAK, CHLORINATION AND BACTERIOLOGICAL SAMPLE POINTS

LOCATION		DESCRIPTION
STATION	OFFSET	
1+744.99	6.34 LT	H-1
1+768.16	1.85 RT	B-1
1+771.29	12.58 LT	B-2
1+970.80	1.82 RT	H-2
1+976.30	10.52 LT	K-1
2+141.15	12.89 RT	W-1
2+143.06	10.60 LT	W-2
2+150.16	3.61 RT	H-3

NOTES:
1. THE COST FOR SAMPLING SHALL BE INCLUDED IN THE TESTING REQUIREMENTS UNDER THE APPROPRIATE PIPE ITEMS.
2. LOCATIONS SHOWN ON THIS TABLE ARE APPROXIMATE. ACTUAL LOCATIONS FOR SAMPLING POINTS SHALL BE ADJUSTED TO SUIT FIELD CONDITIONS. ALL HEALTH DEPARTMENT REQUIREMENTS REGARDING NUMBER, SPACING AND LOCATION OF SAMPLE POINTS SHALL BE STRICTLY ADHERED TO.

RESILIENT WEDGE VALVE & VALVE BOX

LOCATION		ITEM 663.1006	ITEM 663.1008
STATION	OFFSET	EA	EA
1+744.2	6.6 LT		1
1+767.4	4.4 RT		1
1+768.3	3.5 RT		1
1+773.1	2.71 RT		1
1+775.8	9.18 LT	1	
1+960.8	5.43 RT	1	
1+975.1	2.23 RT		1
1+976.3	1.38 RT		1
2+141.5	3.80 RT		1
2+142.9	1.94 RT		1
2+144.6	2.93 RT		1
	TOTALS:	2	9

WATER SERVICE TABLE

LOCATION			ITEM NUMBER						
			663.0603	663.0604	663.2503	663.2504	663.2603	663.2604	663.44
STATION	SIDE	ADDRESS	m	m	EA	EA	EA	EA	EA
1+811.3	LT	1106 HANSHAW ROAD	5		1		1		1
1+815.2	RT	1103 HANSHAW ROAD	5		1		1		1
1+841.0	RT	1105 HANSHAW ROAD	5		1		1		1
1+876.7	LT	1114 HANSHAW ROAD		9		1		1	1
1+882.3	RT	1107 HANSHAW ROAD	5		1		1		1
1+970.9	RT	1205 HANSHAW ROAD	5		1		1		1
1+934.5	RT	1201 HANSHAW ROAD	5		1		1		1
1+996.2	RT	1207 HANSHAW ROAD	5		1		1		1
2+022.7	RT	1209 HANSHAW ROAD	5		1		1		1
2+042.4	LT	1210 HANSHAW ROAD	5		1		1		1
2+066.6	RT	1211 HANSHAW ROAD	5		1		1		1
2+082.0	LT	HANSHAW ROAD		9		1		1	1
2+116.9	LT	400 WARREN	5		1		1		1
		TOTALS:	55	18	11	2	11	2	13

NOTE: WATER SERVICE LOCATIONS WERE DETERMINED FROM RECORDS SUPPLIED BY THE TOWN AND BASE MAPPING. THE CONTRACTOR SHALL LOCATE ALL SERVICES PRIOR TO INSTALLATION OF NEW SERVICES.

REMOVE & DISPOSE OF EXISTING WATER VALVE & VALVE BOX

ITEM NUMBER 663.42

LOCATION		
STATION	OFFSET	EA
1+768.50	6.00 LT	1
1+769.76	7.02 LT	1
1+770.73	7.52 LT	1
1+756.60	8.88 LT	1
1+899.65	5.11 LT	1
1+974.73	5.00 LT	1
2+122.35	3.26 LT	1
2+141.28	4.88 LT	1
	TOTALS:	8

DUCTILE IRON WATER PIPE - 8 NPS

ITEM NUMBER 663.0108

FROM		TO		QTY
STATION	OFFSET	STATION	OFFSET	M
1+743	7.25 LT	2+152	4.0 R	414.00
1+773.1	3.5 R	1+771.2	13.8 LT	18.20
1+976.3	2.23 RT	1+974.8	12.6 LT	15.65
2+141.46	2.85 RT	2+140.41	15.48 RT	12.85
2+142.99	2.88 RT	2+142.94	11.48 LT	14.59
			TOTALS:	475.29

LEGEND

SYMBOL	DESCRIPTION
DS D-116	PROPOSED DRAINAGE STRUCTURE
DR-3	DRAINAGE STRUCTURE REMOVAL
F-1	PROPOSED FIELD INLET
IC-1	WATERLINE INTERCONNECT

REMOVE AND STORE EXISTING HYDRANT

ITEM NUMBER 663.46

LOCATION		
STATION	OFFSET	EA
1+756.6	LT	1
1+900.4	LF	1
	TOTALS:	2

DUCTILE IRON WATER PIPE - 6 NPS

ITEM NUMBER 663.0106

FROM		TO		QTY
STATION	OFFSET	STATION	OFFSET	M
1+773.46	9.3 LT	1+776.69	9.6 LT	3.25
1+960.73	2.45 RT	1+960.64	6.19 RT	3.76
			TOTALS:	7.01

HYDRANT

ITEM NUMBER 663.1301

LOCATION		
STATION	OFFSET	EA
1+777	9.12 LT	1
1+960.6	6.51 LT	1
	TOTALS:	2

PREPARED BY:
ON:

ALTERED BY:
ON:

STATE OF NEW YORK
MARK RAYMOND BUTCHER
076249
LICENSED PROFESSIONAL ENGINEER
5-28-2013

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: @FILENAME@

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COUNTY ROUTE 109

TOWN OF ITHACA
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PIN 3753.25

PS&E DATE
MAY 2013

BRIDGES

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UTILITY PLANS

FISHERASSOCIATES

DRAWING NO. UT-16
SHEET NO. 130 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DESIGN SUPERVISOR D. JUDSON | JOB MANAGER M. BUTCHER | DESIGNED BY M. BUTCHER | CHECKED BY R. BENNETT | ESTIMATED BY | DRAFTED BY T. DAVIS | CHECKED BY M. BUTCHER

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