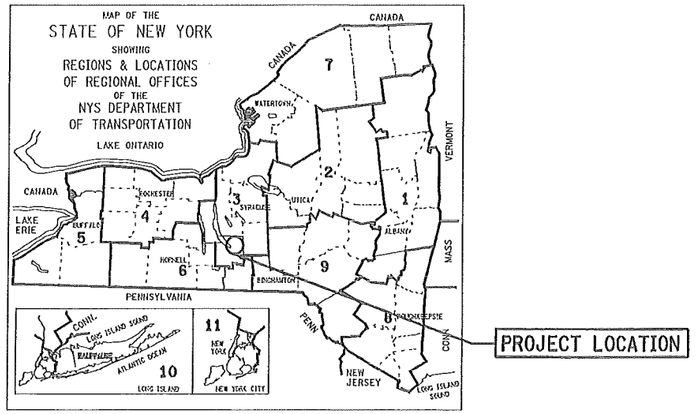



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

## 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.

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

F. A. PROJECT

130 SHEETS

TOMPKINS COUNTY CONTRACT

CONTRACTOR'S NAME _____

AWARD DATE _____

COMPLETION DATE _____

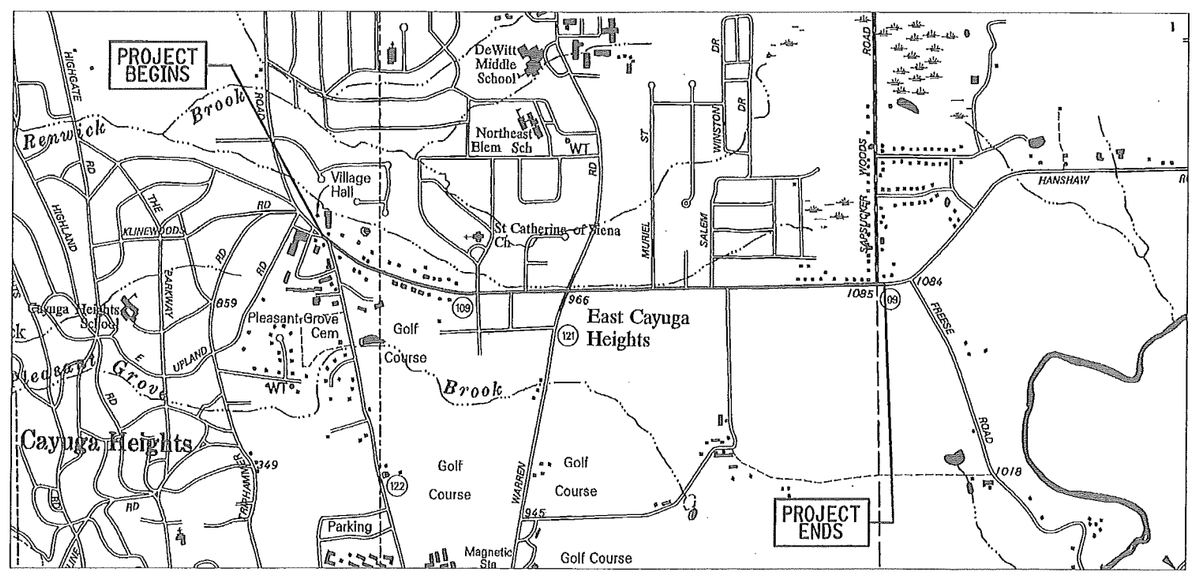
FINAL ACCEPTANCE DATE _____

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 SCOTT
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 = MarKB

| 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.

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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 |
| ℙ | 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

FISHERASSOCIATES

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

DRAFTED BY J. VIDETTI CHECKED BY C. SMITH

ESTIMATED BY J. VIDETTI

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 |
|---|---|---|
| HY/SL HY/SL | 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 |
| ℄ | MPL | PROPERTY LOT LINE |
| AP | 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 CHECKED BY M. BUTCHER DRAFTED BY T. DAVIS

FILE NAME = H:\Projects\051004-Hanshaw_Rd\Eng\CUT\Planset\LEG\37532Sa_leg.dgn
DATETIME = 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 |
| | TCBP | BOX, PULL BOX |
| | TCBS | BOX, SPLICE |
| | 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 |
| | 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 |
| | 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 |
| W/M | 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 DRAFTED BY T. DAVIS ESTIMATED BY CHECKED BY M. BUTCHER

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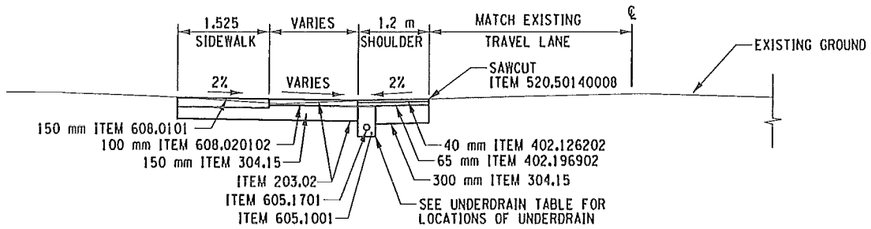
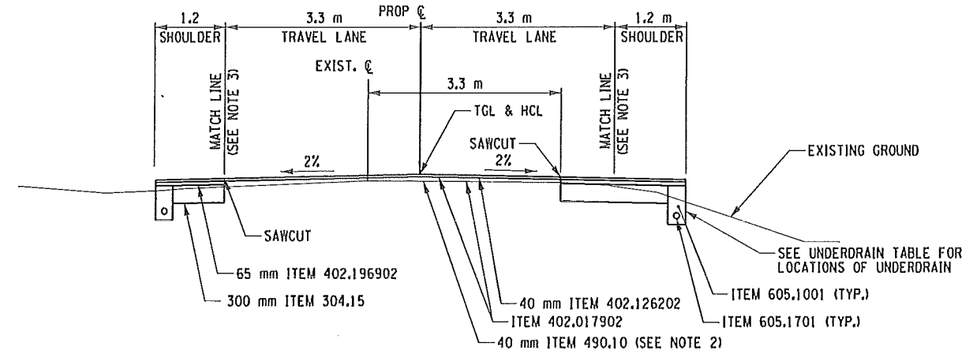
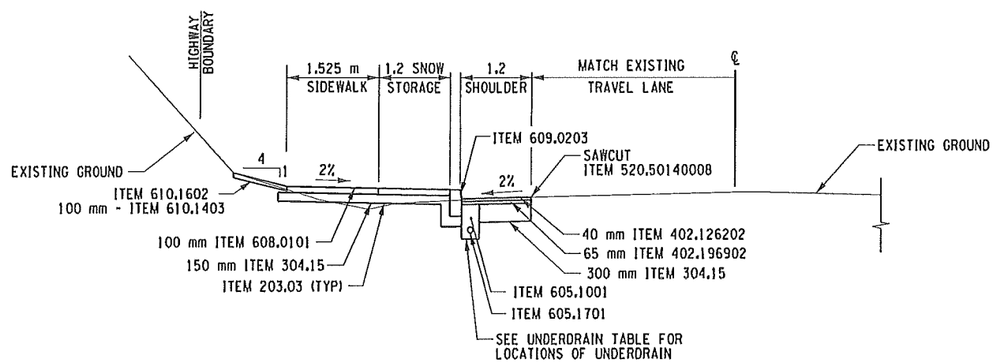
USER = MarkB



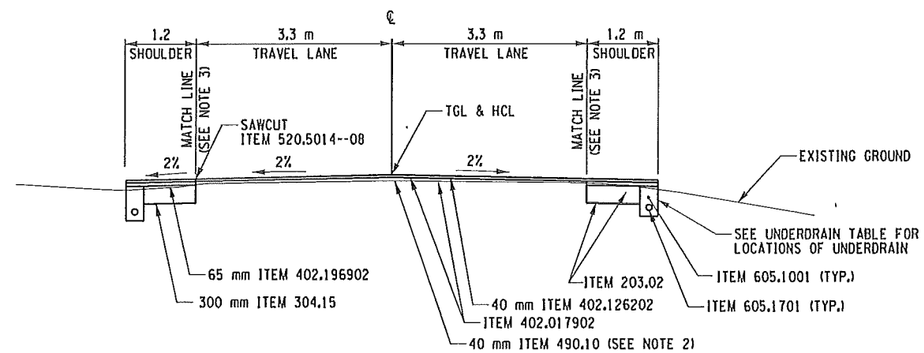

SHOULDER WIDENING
STA. HR 1+070 TO STA. HR 1+110




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




SHOULDER WIDENING WITH CURB
STA. HR 1+110 TO STA. HR 1+140



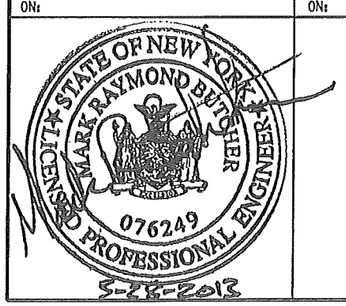

HANSHAW ROAD
STA. HR 1+470 TO STA. HR 1+850

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, 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 | 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 |
| 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 MINIMUM 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

FISHER ASSOCIATES

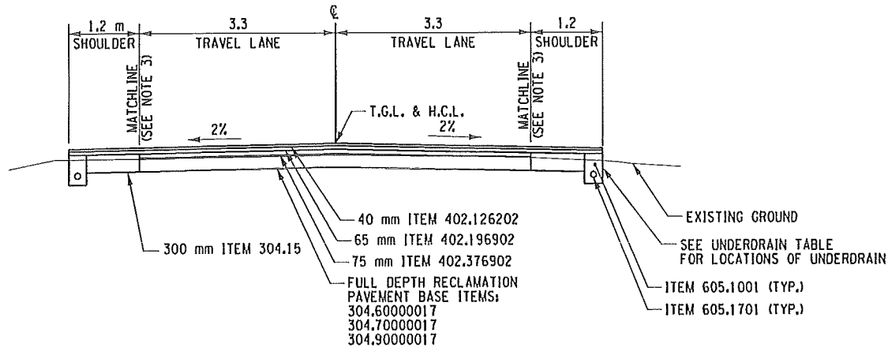
DRAWING NO. TYP- 1
SHEET NO. 5 OF 130

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

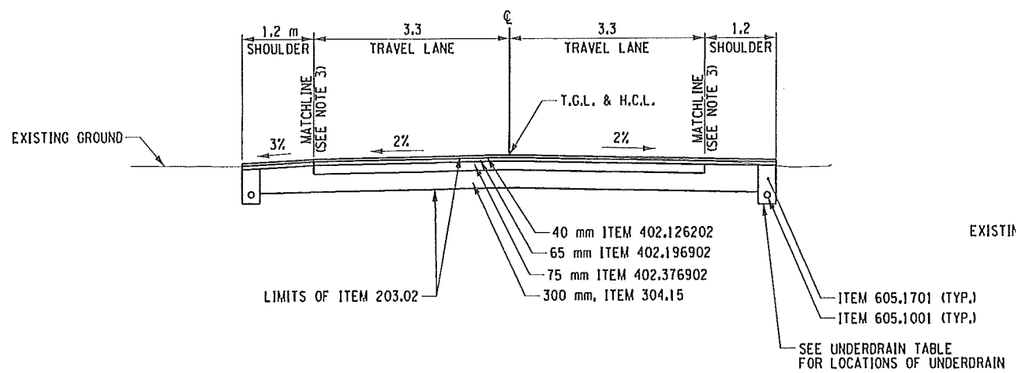
FILE NAME = DGN$SPEC
DATE/TIME = 5/29/2013
USER = MARKB




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

## HANSHAW ROAD - FULL DEPTH RECLAMATION

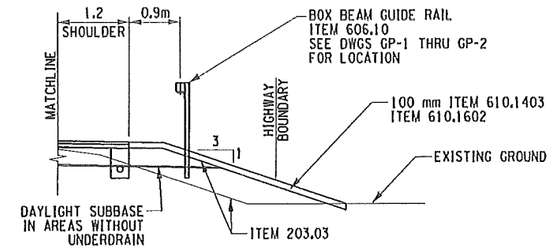
STA. HR 1+850 TO STA. HR 2+100
STA. HR 2+200 TO STA. HR 3+230
STA. HR 3+310 TO STA. HR 3+500



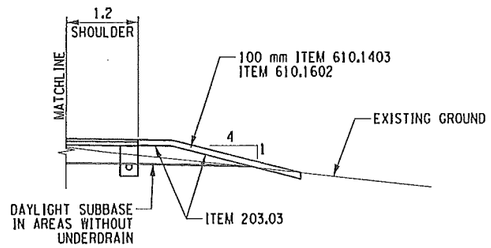

1 0 1 2 3 m
SCALE IN METERS

## HANSHAW ROAD - FULL DEPTH RECONSTRUCTION

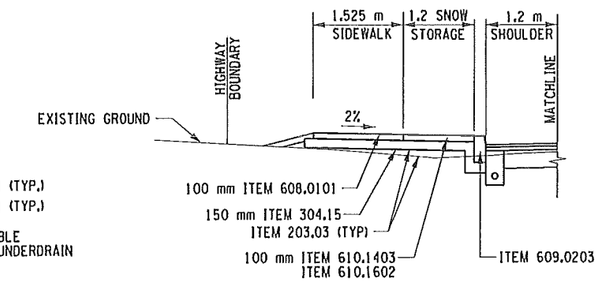
STA. HR 2+100 TO STA. HR 2+200
STA. HR 3+230 TO STA. HR 3+310



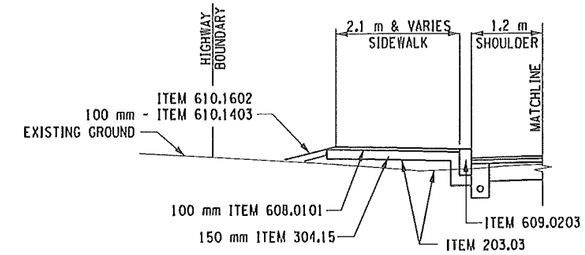

1 FILL SLOPE
(W/ GUIDE RAIL)



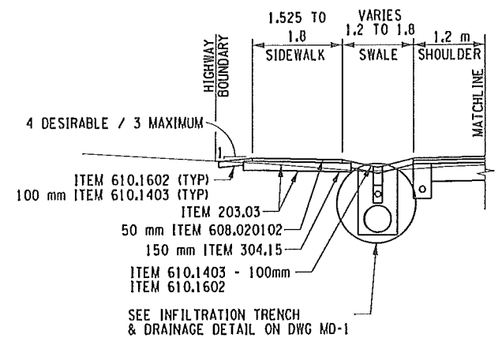

2 CUT/FILL SLOPE



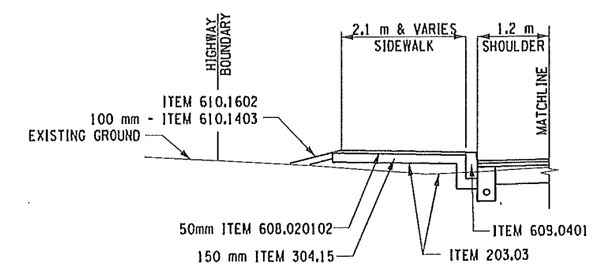

3 OFFSET SIDEWALK
(CONCRETE)




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
5-28-2013

| 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

FISHERASSOCIATES

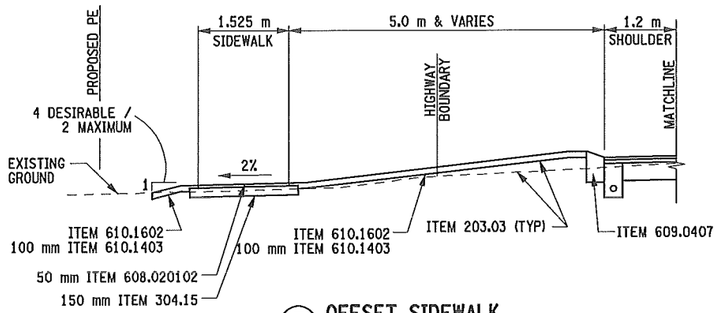
DRAWING NO. TYP- 2
SHEET NO. 6 OF 130

DOCUMENT NAME: $FILENAME$

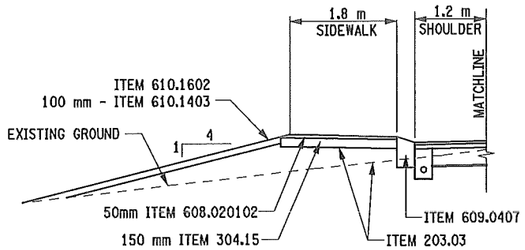
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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

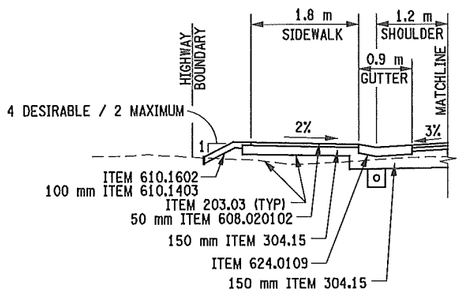
FILE NAME = DGNSSPEC
DATE/TIME = 5/31/2013
USER = MARKB



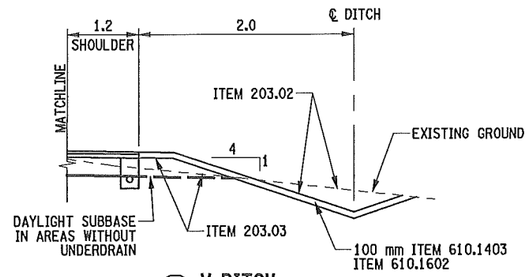

7 OFFSET SIDEWALK
(ASPHALT)



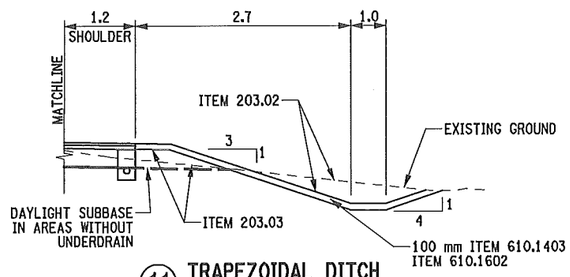

9 TRAVERSABLE CURB & SIDEWALK



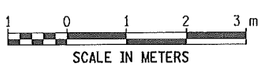

8 GUTTER & SIDEWALK
(ASPHALT)




10 V-DITCH




11 TRAPEZOIDAL DITCH




## 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:

| 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 |
| 407.02 | 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 |

| ITEM | DESCRIPTION | UNIT |
|---|---|---|
| 609.0407 | CAST-IN-PLACE CONCRETE CURB, TYPE T100 | M |
| 610.1403 | TOPSOIL - LAWNS | CM |
| 610.1602 | TURF ESTABLISHMENT - LAWNS | SM |
| 624.0109 | CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTER | SM |

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
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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

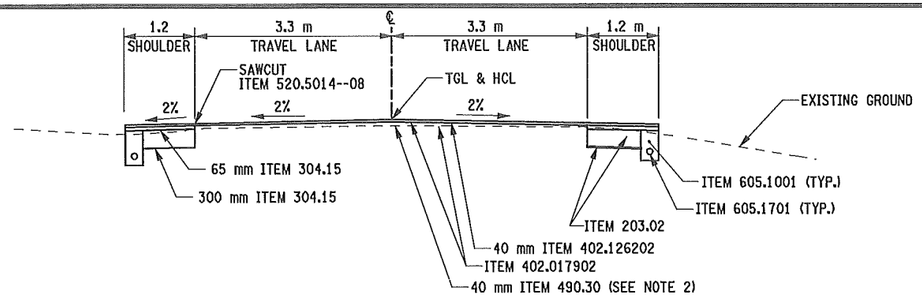
DRAWING NO. TYP- 3
SHEET NO. 7 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

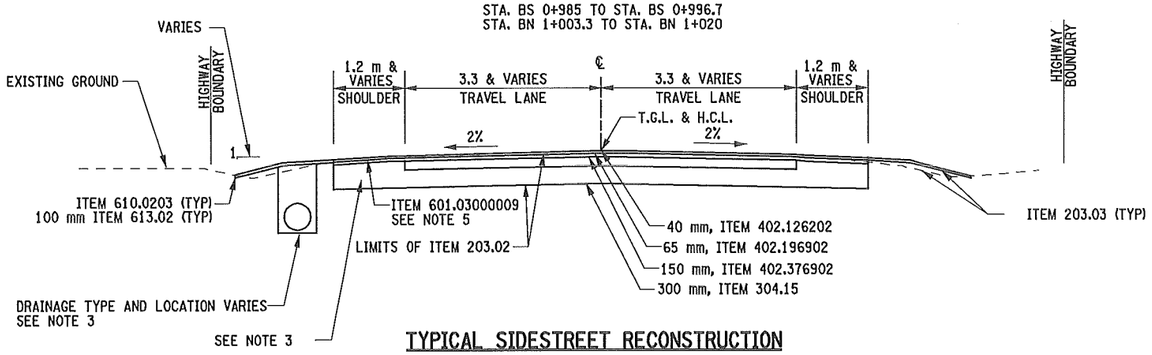
DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

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



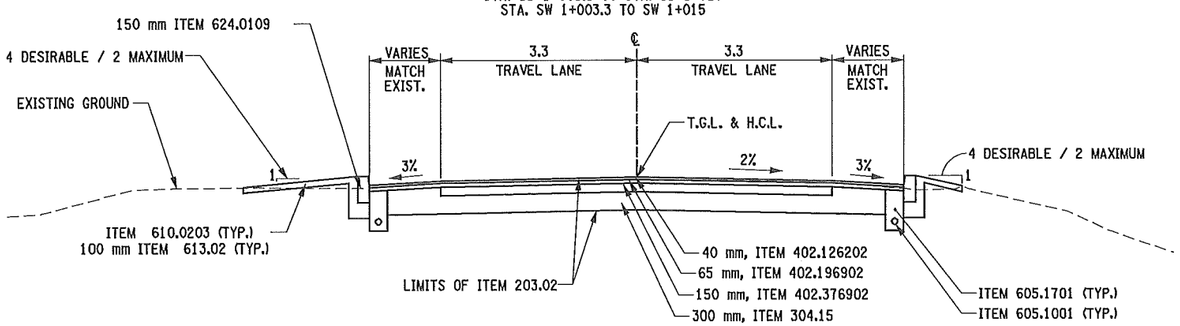

## TYPICAL SIDESTREET SHOULDER WIDENING

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



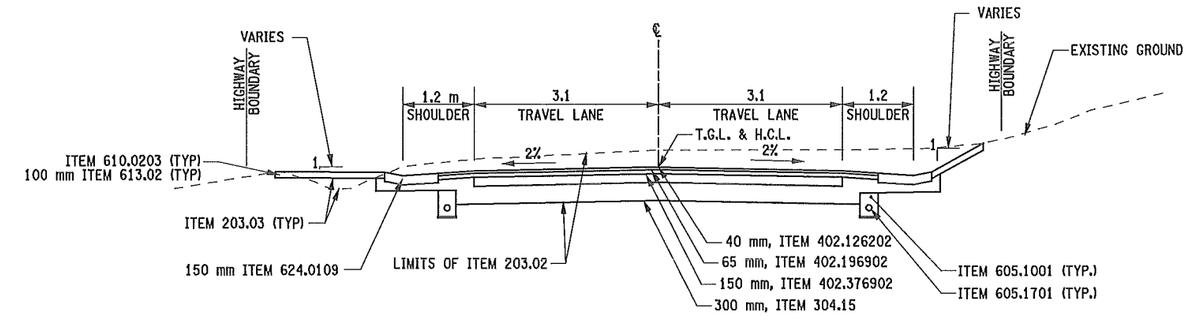

## TYPICAL SIDESTREET RECONSTRUCTION

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



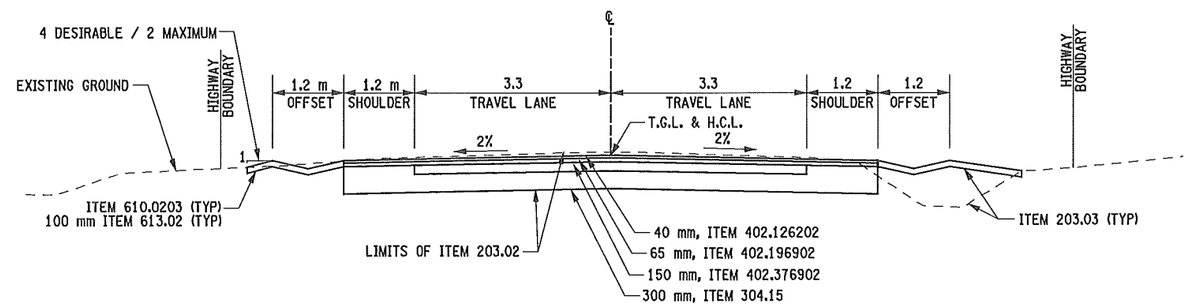

## WARREN ROAD - RECONSTRUCTION WITH CURB

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

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PREPARED BY:
ON:

ALTERED BY:
ON:

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

| 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 | |

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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 NOTES

FISHERASSOCIATES

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

DOCUMENT NAME: 375325A_GN.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

## 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 DEPTH 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 F2 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 EXSTING 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. | 181 | |
| 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 | |
| 619.100101 | INTERIM PAVEMENT MARKING STRIPES | M | 10943 | |
| 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 | |
| 663.1301 | HYDRANT | EA | 2 | |
| 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 | 4 | |
| 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 | |
| 698.01 | 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 | |

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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

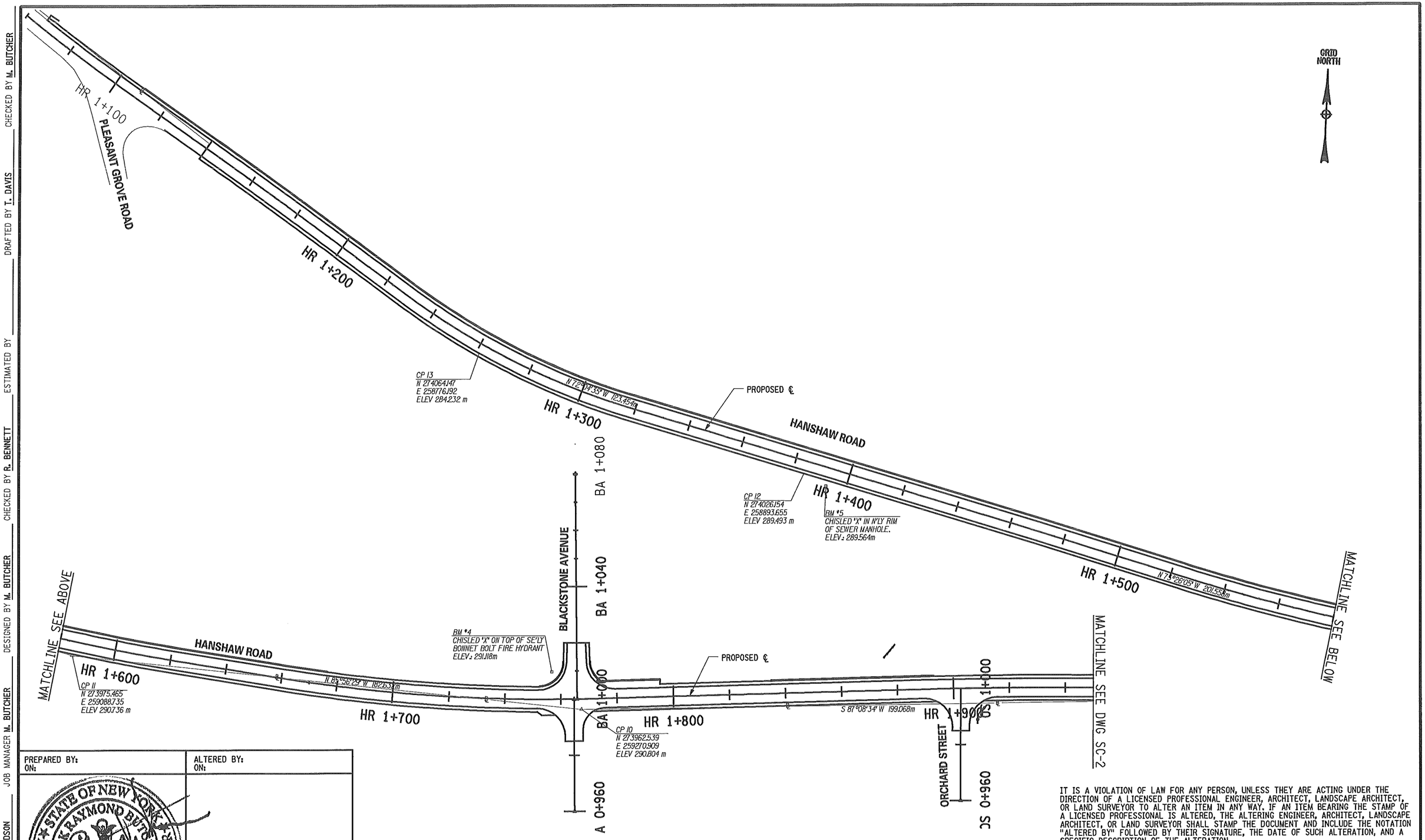
DRAWING NO. ES-1
SHEET NO. 10 OF 130

DOCUMENT NAME: $FILENAME$

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$SPEC
DATE/TIME = 5/28/2013
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

SURVEY CONTROL

FISHER ASSOCIATES

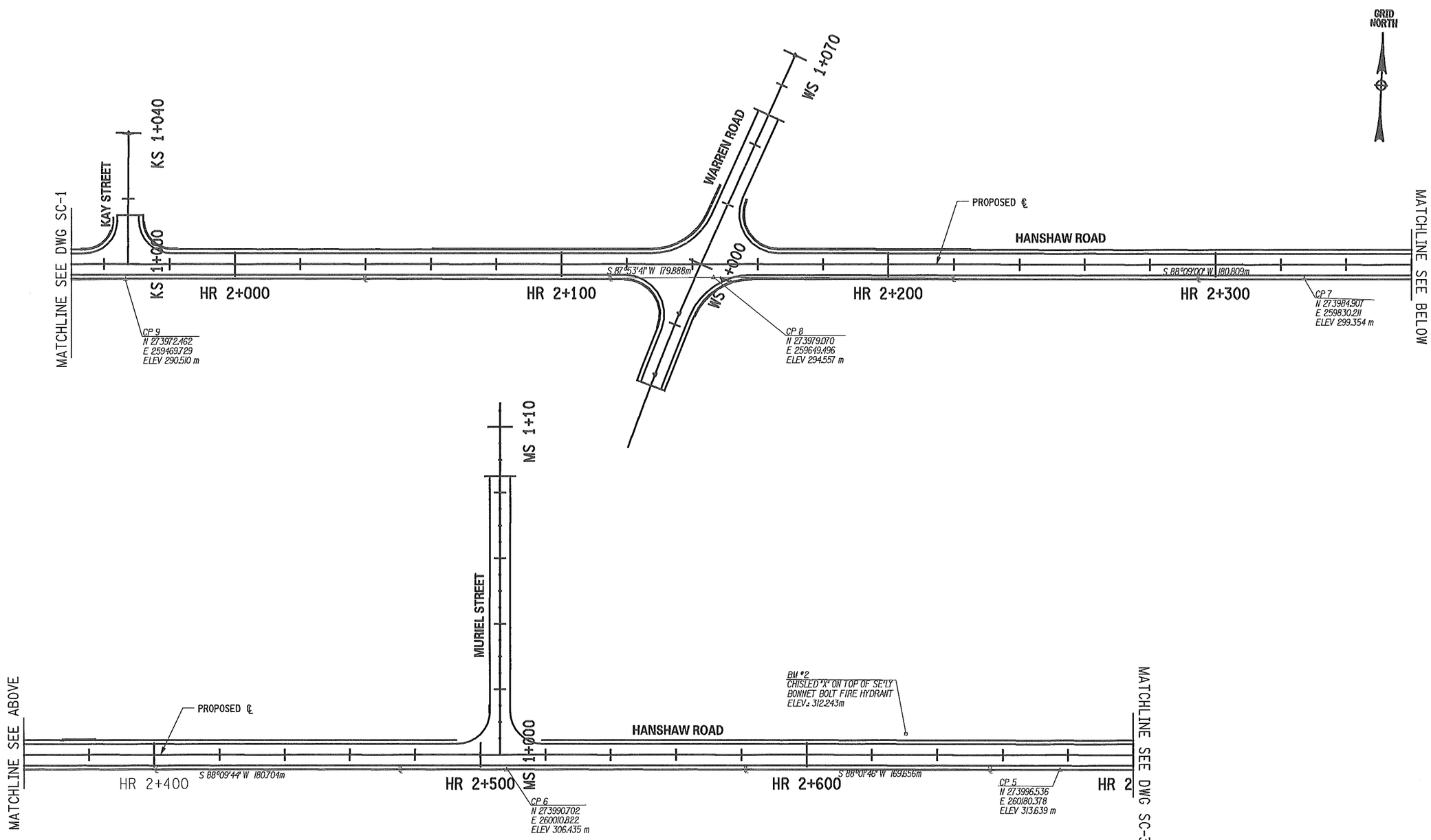
DRAWING NO. SC-1
SHEET NO. 11 OF 130

DOCUMENT NAME: 375325A_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




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
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|---|---|
| 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

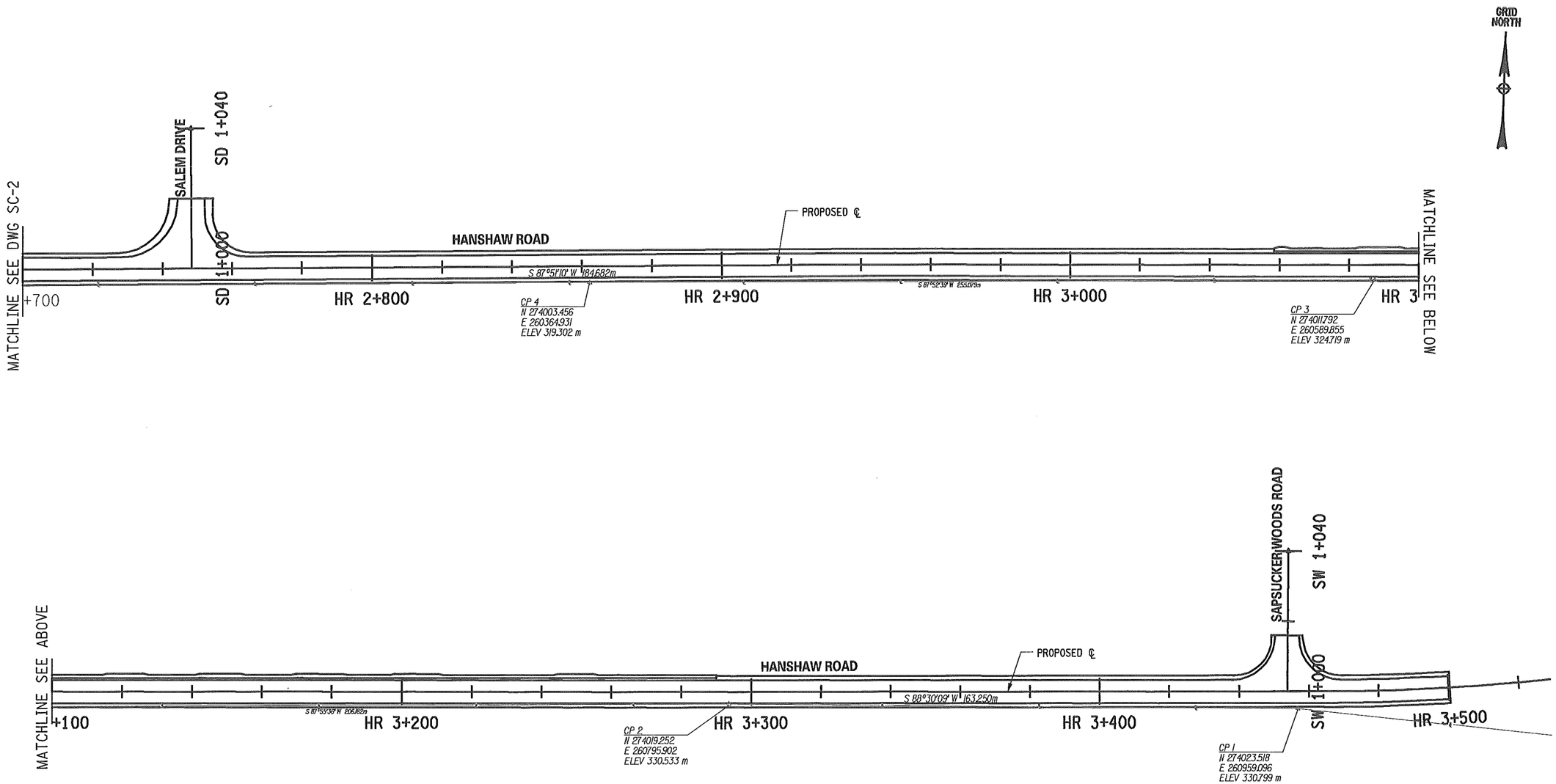
SURVEY CONTROL

FISHERASSOCIATES

DRAWING NO. SC-2
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 R. BENNETT CHECKED BY M. BUTCHER

JOB MANAGER M. BUTCHER DESIGNED BY 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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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-3
SHEET NO. 13 OF 130

DOCUMENT NAME: 375325C_SC.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

## 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

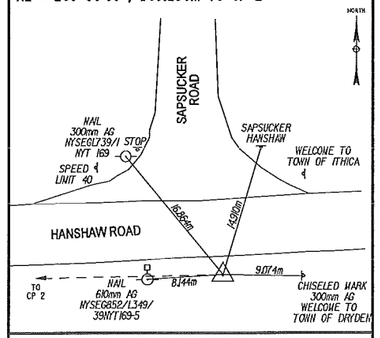
DOCUMENT NAME: 375325D_SC.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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

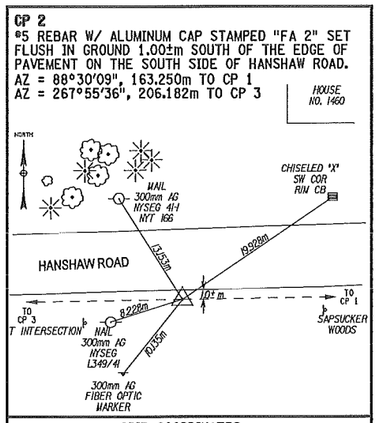
FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

**CP 1**
#5 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



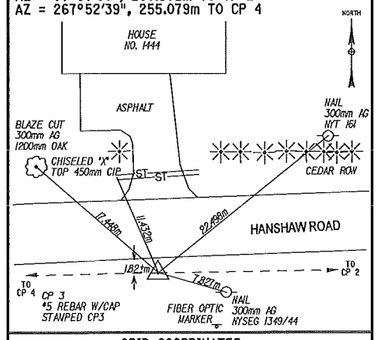

GRID COORDINATES
N = 274023.518
E = 260,959.096
ELEV = 330.799m

**CP 2**
#5 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



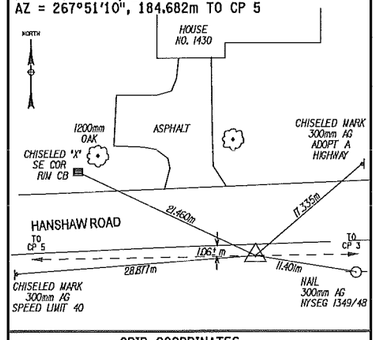

GRID COORDINATES
N = 274019.252
E = 260795.902
ELEV = 330.533m

**CP 3**
#5 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

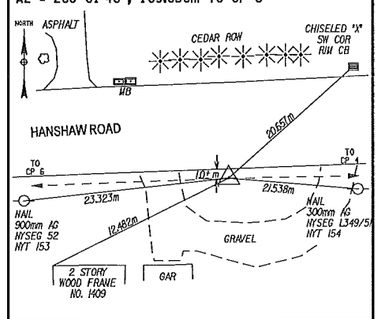
**CP 4**
#5 REBAR W/ ALUMINUM CAP STAMPED "FA 4" SET FLUSH IN GROUND 1.06±m SOUTH OF THE EDGE OF PAVEMENT ON THE SOUTH SIDE OF HANSHAW ROAD.
AZ = 87°52'39", 206.182m TO CP 3
AZ = 267°51'10", 184.682m TO CP 5




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

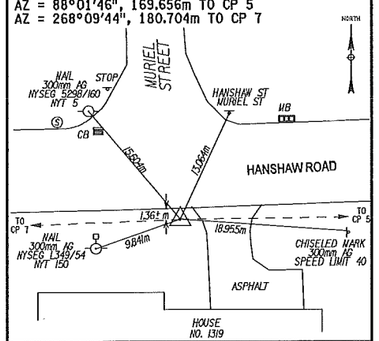
GRID NORTH

**CP 5**
#5 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



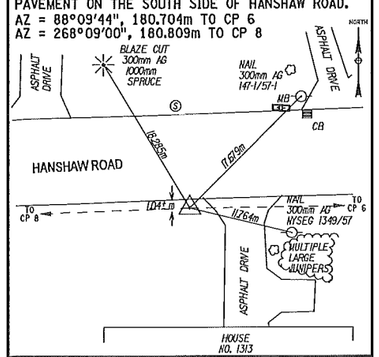

GRID COORDINATES
N = 273996.536
E = 260180.378
ELEV = 313.639m

**CP 6**
#5 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



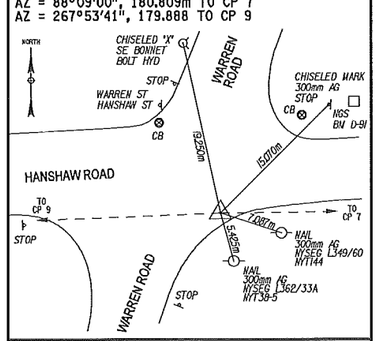

GRID COORDINATES
N = 273990.702
E = 260010.822
ELEV = 306.435m

**CP 7**
#5 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:

HORIZONTAL DATUM IS REFERENCED TO NAD 1983 NEW YORK STATE PLANE COORDINATE SYSTEM CENTRAL ZONE, THROUGH GPS METHODS.

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 | |

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

SURVEY CONTROL PLANS

FISHER ASSOCIATES

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

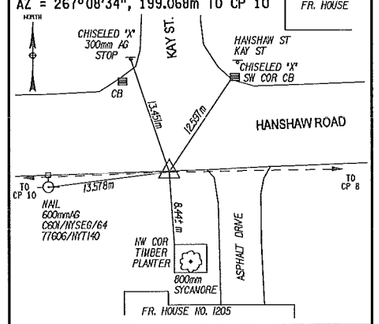
DOCUMENT NAME: 375325E_SC.DGN

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

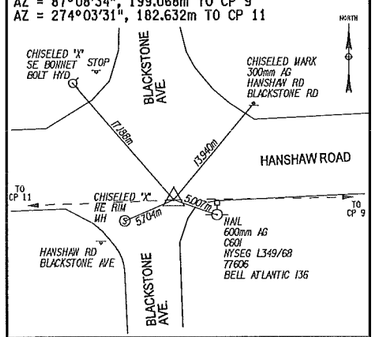
FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB

**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



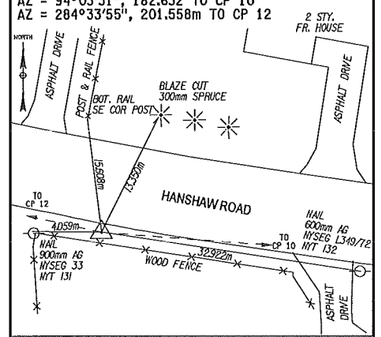

GRID COORDINATES
N = 273972.462
E = 259469.729
ELEV = 290.510m

**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



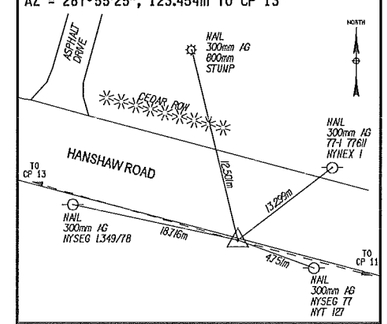

GRID COORDINATES
N = 273962.539
E = 259270.909
ELEV = 290.804m

**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

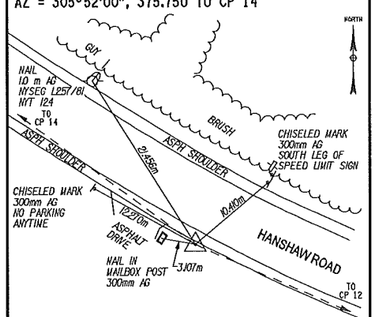
**CP 12**
#5 REBAR W/ ALUMINUM CAP STAMPED "FA 12" SET FLUSH IN GROUND SOUTH OF THE EDGE OF PAVEMENT ON THE SOUTH SIDE OF HANSHAW ROAD.
AZ = 104°33'55", 201.558m TO CP 11
AZ = 287°55'25", 123.454m TO CP 13




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

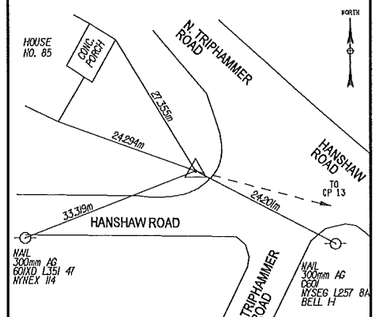
GRID NORTH

**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:

HORIZONTAL DATUM IS REFERENCED TO NAD 1983 NEW YORK STATE PLANE COORDINATE SYSTEM CENTRAL ZONE, THROUGH GPS METHODS.

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

FISHERASSOCIATES

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

DOCUMENT NAME: 375325E_SC.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

FILE NAME = DGN$PEC
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

## 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 | |

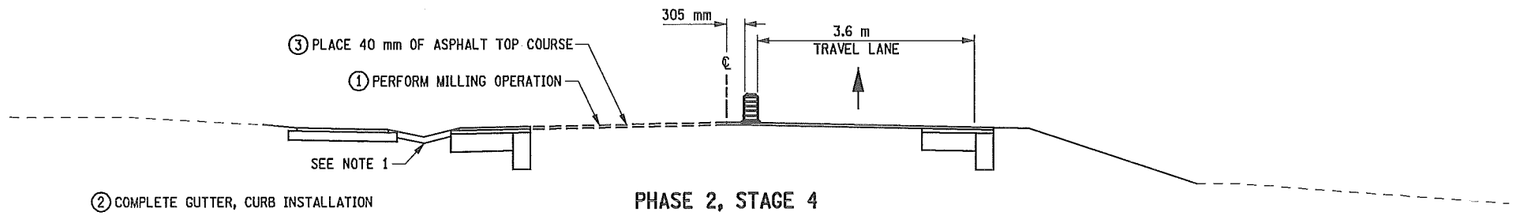
| | | | | | |
|---|---|---|---|---|---|
| AS BUILT REVISIONS DESCRIPTION OF WORK: | RECONSTRUCTION OF HANSHAW ROAD COUNTY ROUTE 109 | PIN 3753.25 | BRIDGES | CULVERTS | ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED |
| | TOWN OF ITHACA | PS&E DATE MAY 2013 | | | TRAFFIC CONTROL NOTES |
| SIGNATURE DATE | VILLAGE OF CAYUGA HEIGHTS | | | | FISHERASSOCIATES |
| | COUNTY: TOMPKINS | | | | DRAWING NO. TCP-1 SHEET NO. 17 OF 130 |

DOCUMENT NAME: 375325A_TCP.DGN

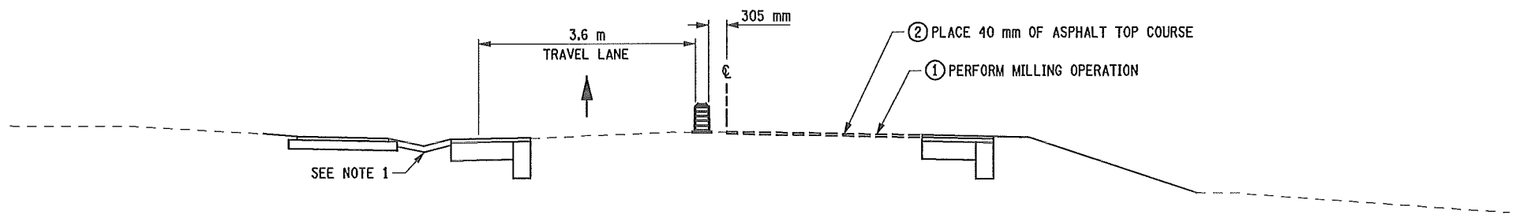
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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

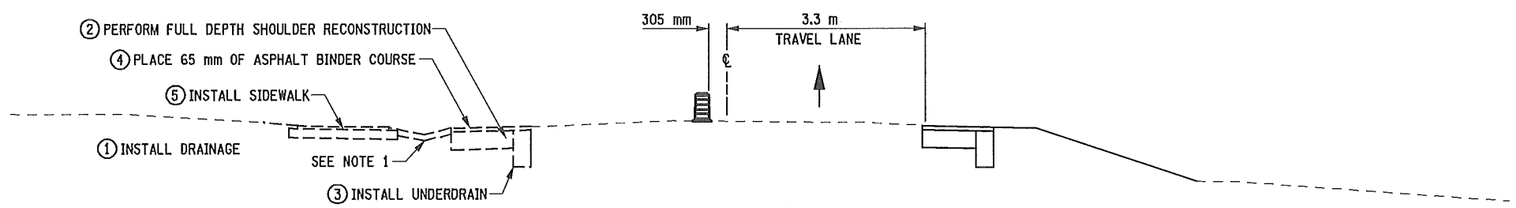
FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB




PHASE 2, STAGE 4

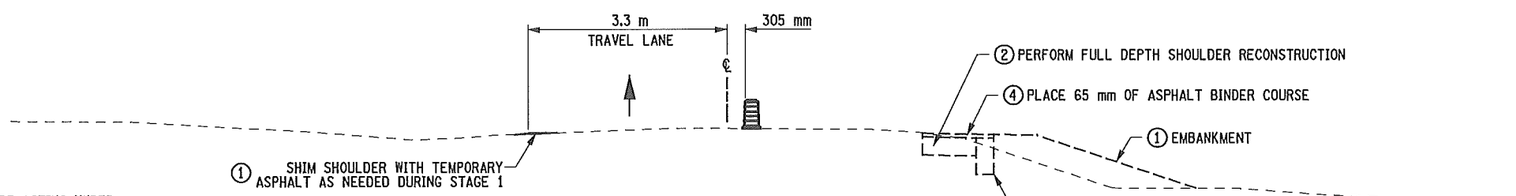



PHASE 2, STAGE 3




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 | |

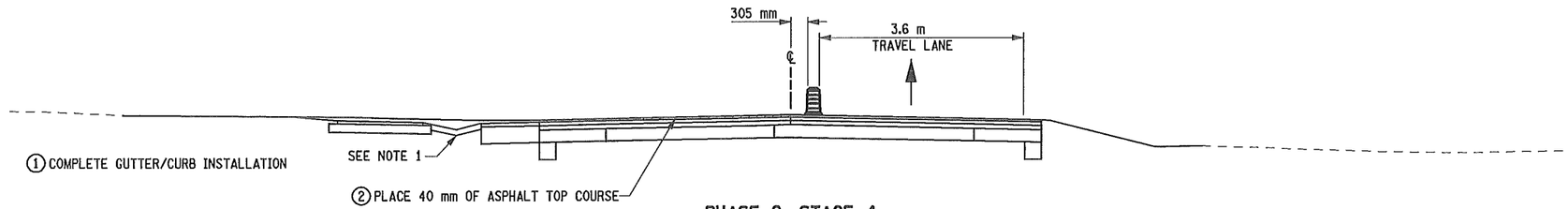
## HANSHAW ROAD - MILL AND RESURFACE

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

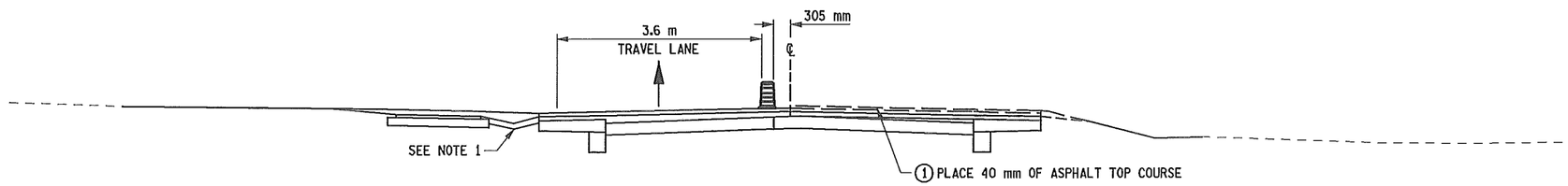
| | | | | | |
|---|---|---|---|---|---|
| AS BUILT REVISIONS DESCRIPTION OF WORK: | RECONSTRUCTION OF HANSHAW ROAD COUNTY ROUTE 109 | PIN 3753.25 | BRIDGES | CULVERTS | ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED |
| | TOWN OF ITHACA | PS&E DATE MAY 2013 | | | TYPICAL STAGING SECTIONS |
| SIGNATURE /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

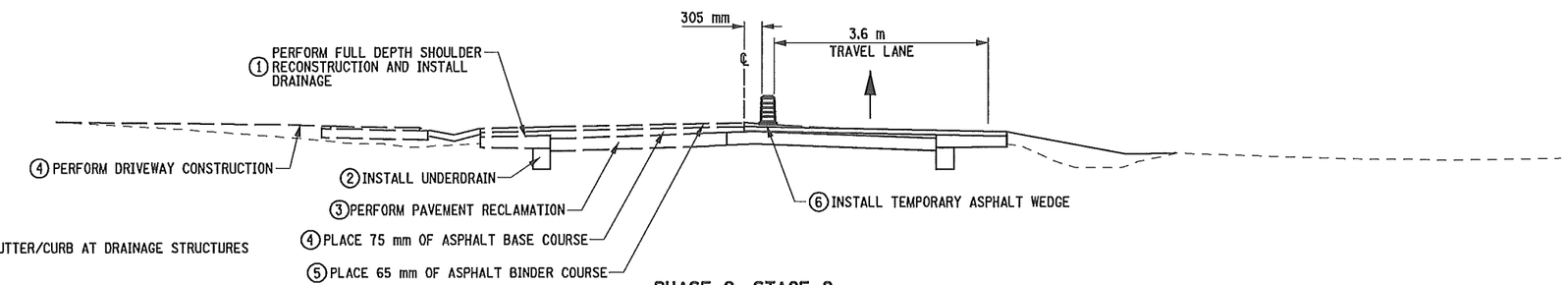
FILE NAME = DGN95PEC
DATE/TIME = 5/14/2013
USER = NARKB




PHASE 2, STAGE 4

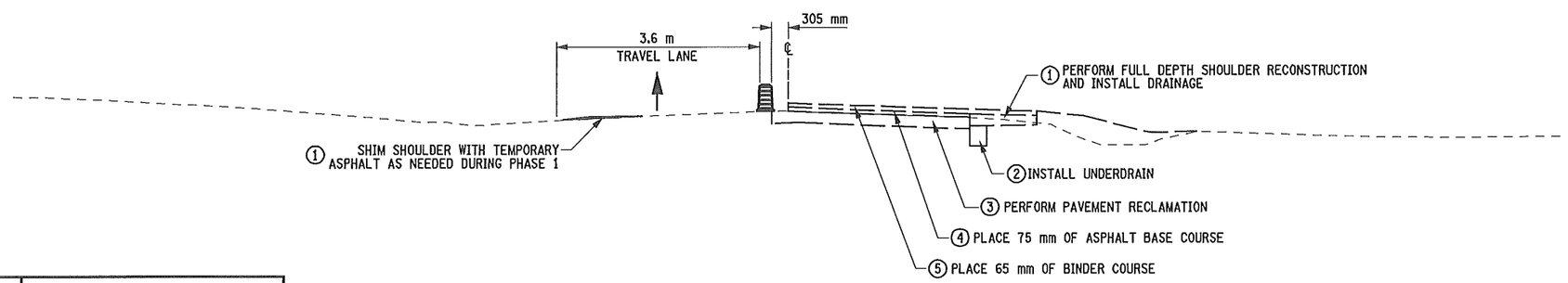



PHASE 2, STAGE 3




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

PHASE 2, STAGE 2




PHASE 2, STAGE 1A & 1B

## 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

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
8-28-2013

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

TYPICAL STAGING SECTIONS

FISHERASSOCIATES

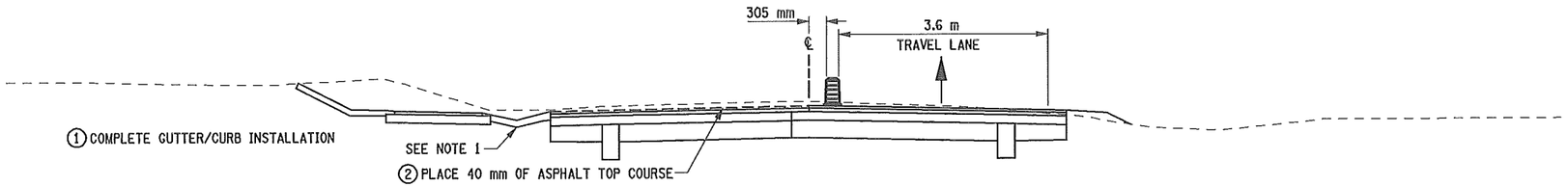
DRAWING NO. TCP-3
SHEET NO. 19 OF 130

DOCUMENT NAME: 375325C_TCP.DGN

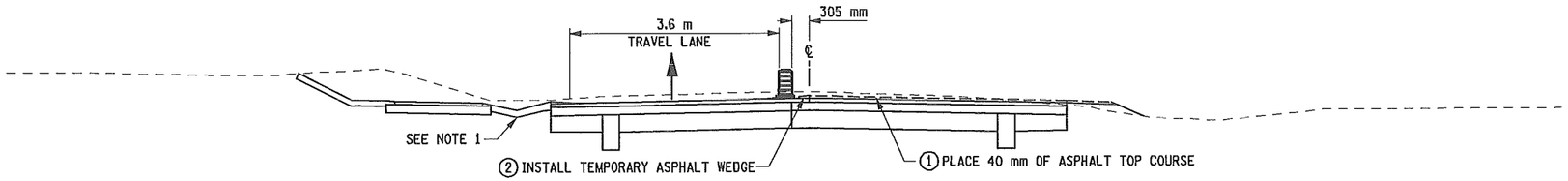
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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

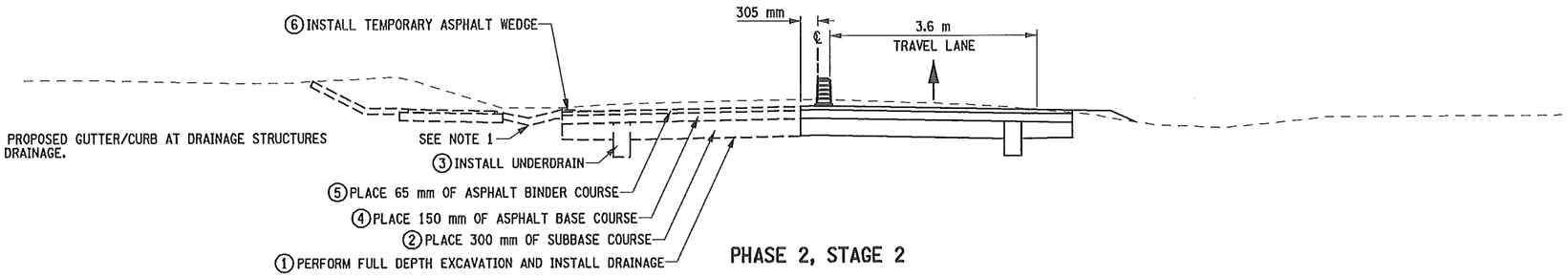
FILE NAME = DGN&SPEC
DATE/TIME = 5/14/2013
USER = MARKB




PHASE 2, STAGE 4

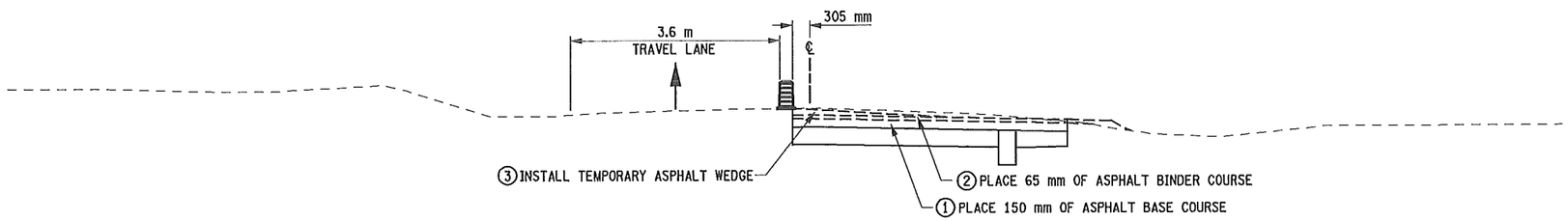



PHASE 2, STAGE 3

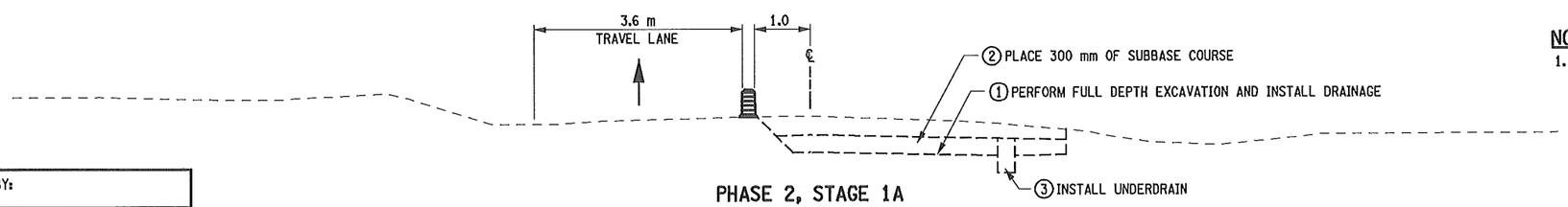



STAGE 2 NOTE:
LEAVE GAPS IN PROPOSED GUTTER/CURB AT DRAINAGE STRUCTURES TO ALLOW FOR DRAINAGE.

PHASE 2, STAGE 2




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

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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: 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

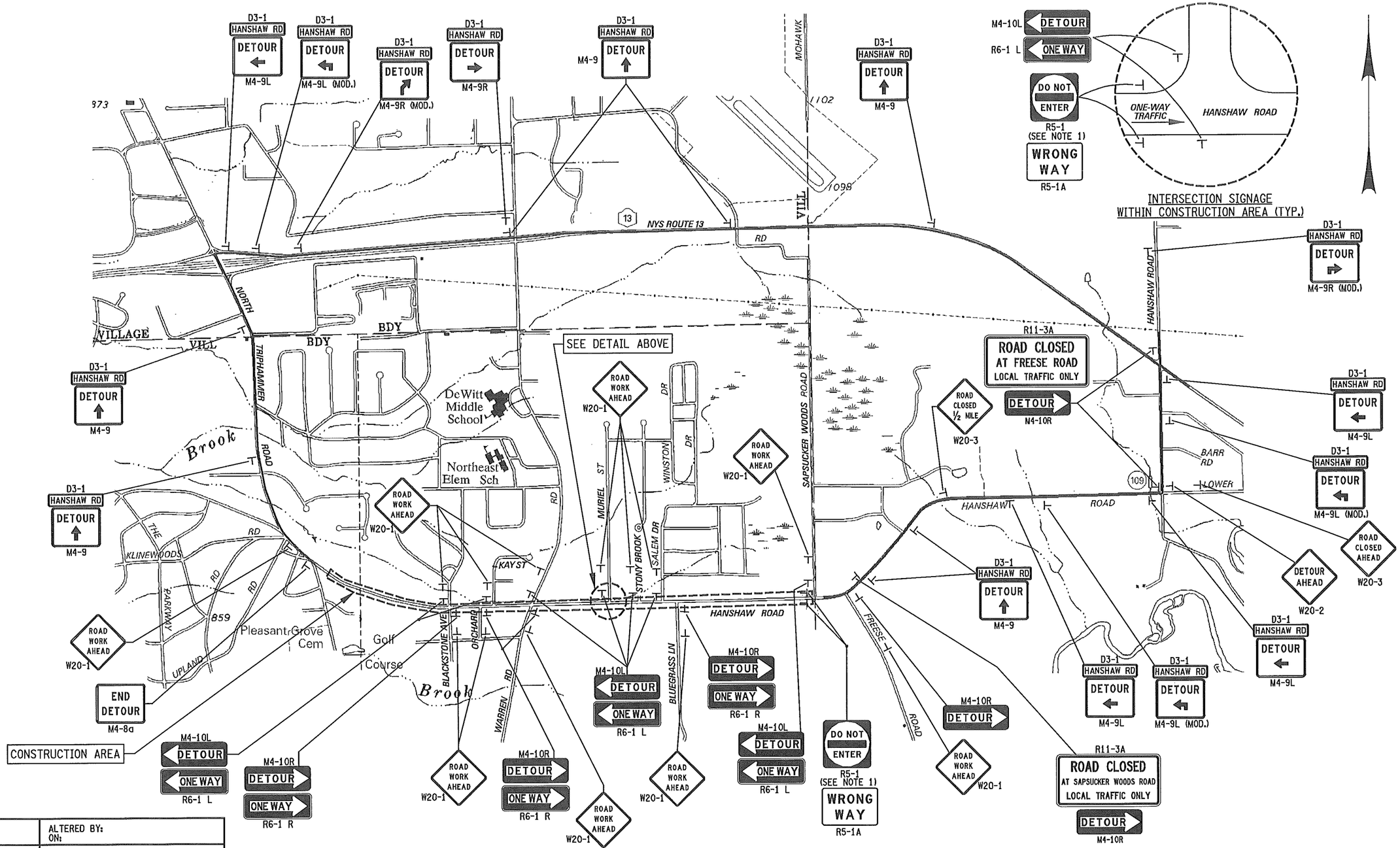
FISHER ASSOCIATES

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).

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

DETOUR PLAN

FISHER ASSOCIATES

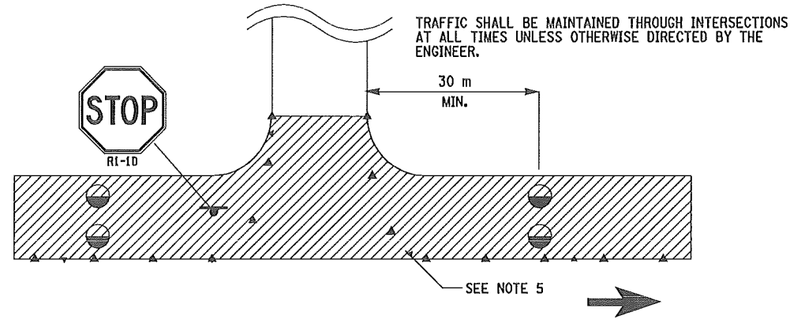
DRAWING NO. TCP-5
SHEET NO. 21 OF 130

DOCUMENT NAME: 375325E_TCP.DGN

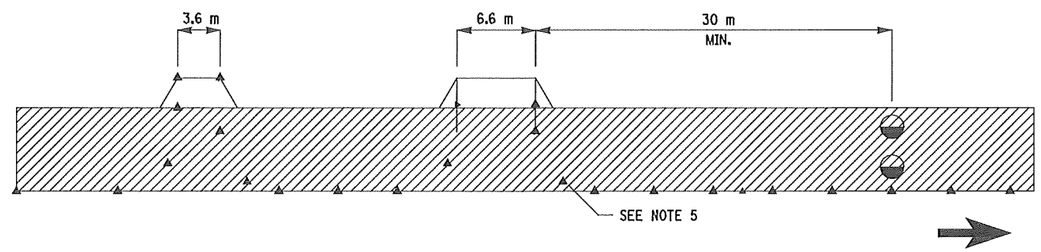
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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

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 | |

# DAILY INTERSECTION TREATMENTS

(NIGHTTIME USE ALL DRUMS)

TYPICAL DELINEATION AND SIGNING FOR UNSIGNALIZED INTERSECTION RECONSTRUCTION

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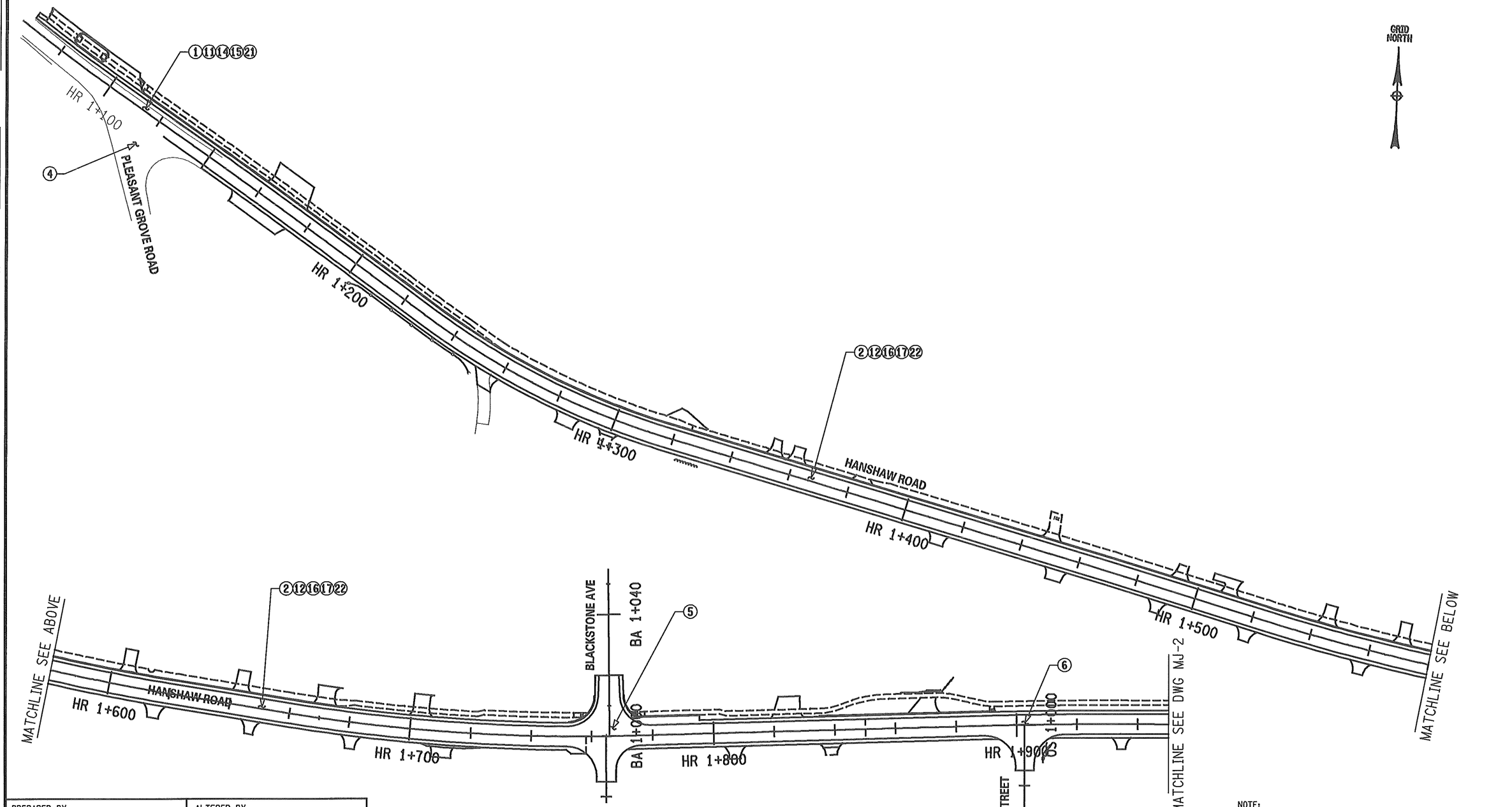


NOTE:

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 | |

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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

MAINTENANCE JURISDICTION PLAN

FISHER ASSOCIATES

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

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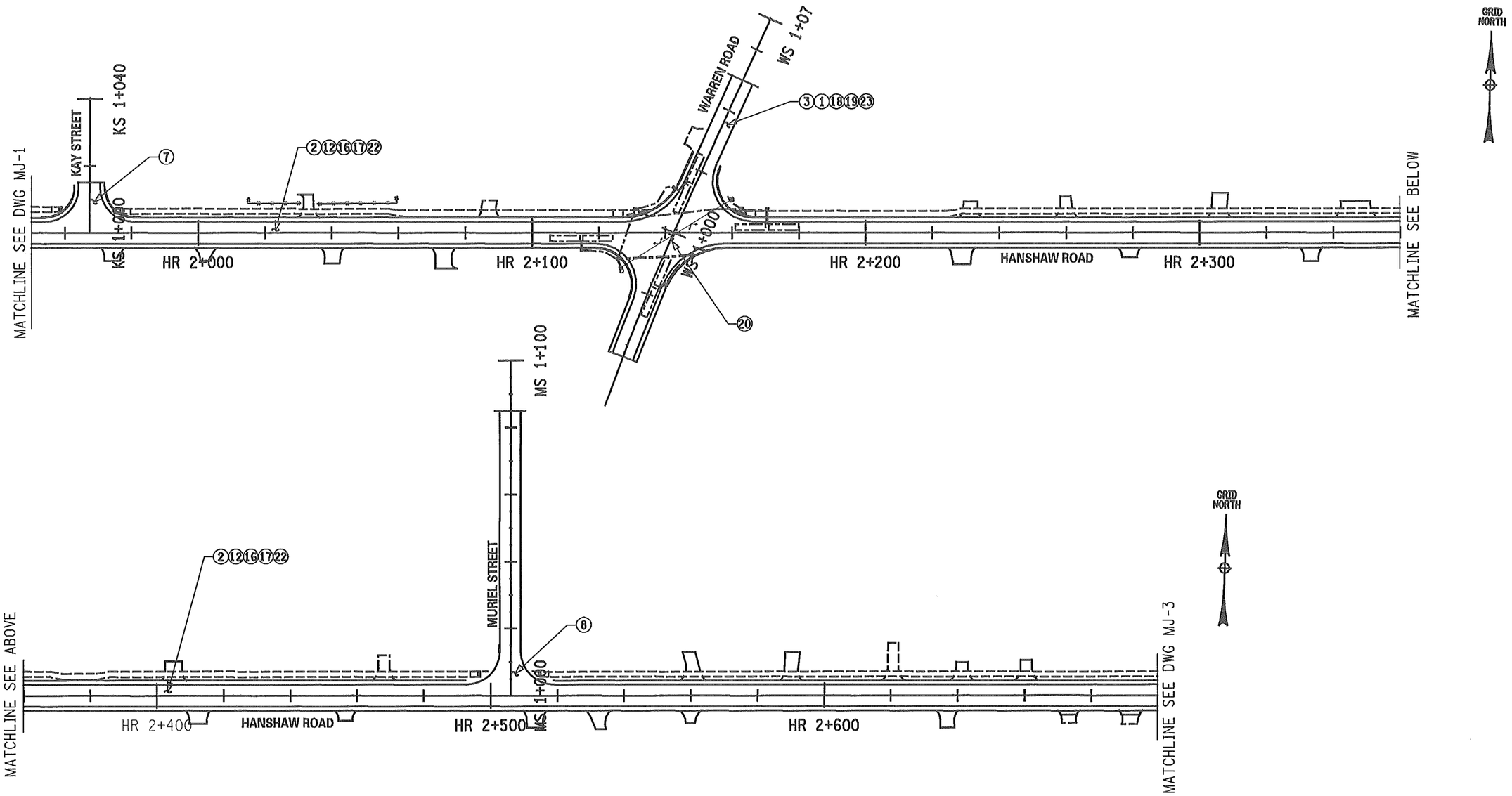


| PREPARED BY: ON: | ALTERED BY: ON: |
|---|---|
| STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013 | |

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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

FISHERASSOCIATES

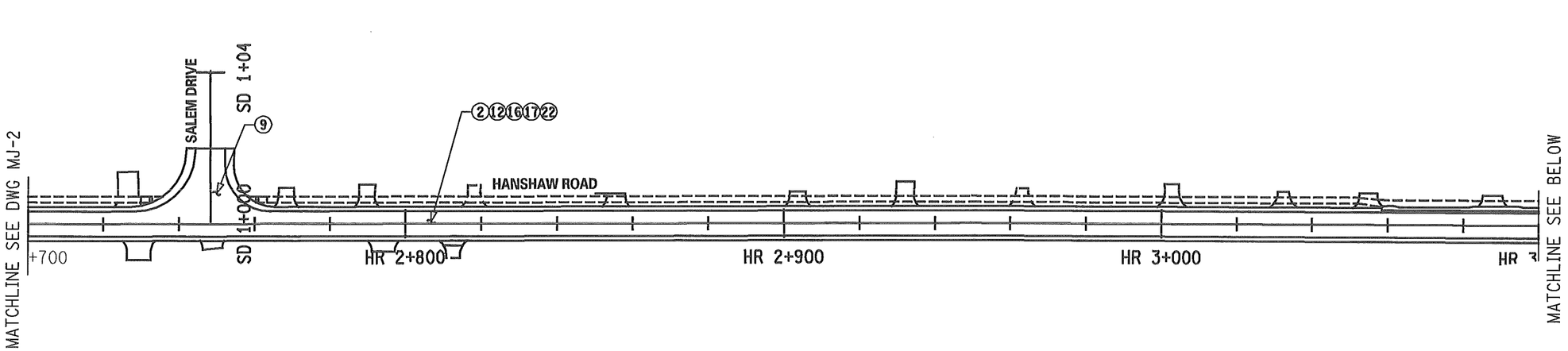
DRAWING NO. MJ-2
SHEET NO. 24 OF 130

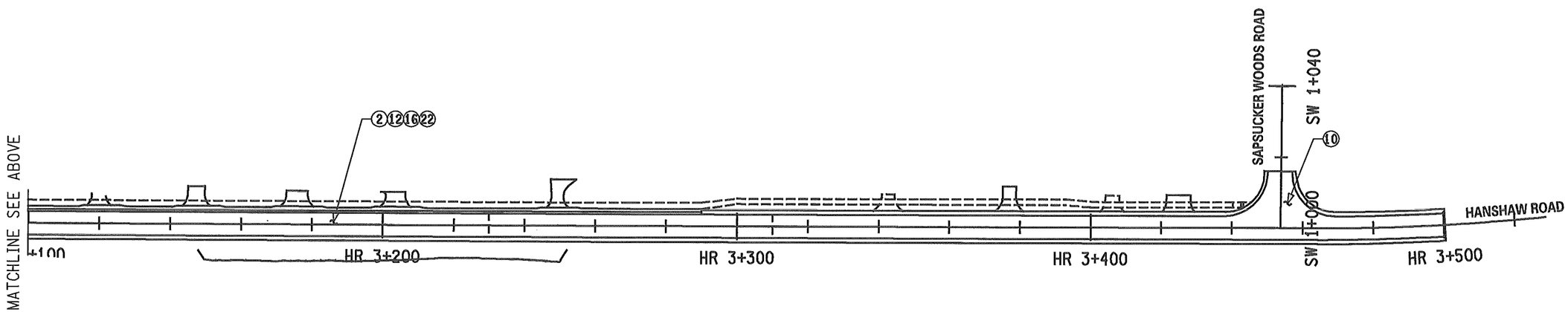
DOCUMENT NAME: 375325B_MJ.DGN

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

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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 = 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

FILE NAME = DGN$SPEC
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: |
|---|---|
| LICENSED PROFESSIONAL ENGINEER STATE OF NEW YORK MARK RAYMOND BUTCHER 076249 5-28-2013 | |

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE DATE

DOCUMENT NAME: 375325D_MJ.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

MAINTENANCE JURISDICTION PLAN

FISHER ASSOCIATES

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

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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 |

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

| 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<br>FRAME & GRATE (ITEM 655.1201), T.G. ELEV. 288.124<br>INLET FROM D-101 WITH 900mm SICPP TO STRUCTURE (INV. 286.484)<br>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<br>FRAME & GRATE (ITEM 655.1201), T.G. ELEV. 290.526<br>INLET FROM D-102 WITH 300 mm SICPP TO STRUCTURE (INV. 288.545)<br>INLET FROM D-107 WITH 300 mm SICPP TO STRUCTURE (INV. 288.545)<br>INLET FROM D-108 WITH 1050 mm SICPP TO STRUCTURE (INV. 287.795)<br>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<br>FRAME & GRATE (ITEM 655.0903), T.G. ELEV. 290.890<br>INLET FROM D-103 WITH 300 mm SICPP TO STRUCTURE (INV. 288.600)<br>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<br>FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 291.123<br>INLET FROM D-103A WITH 300 mm SICPP TO STRUCTURE (INV. 288.795)<br>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<br>FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 291.137<br>INLET FROM D-104 WITH 300 mm SICPP TO STRUCTURE (INV. 288.970)<br>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<br>FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 291.143<br>INLET FROM D-105 WITH 300 mm SICPP TO STRUCTURE (INV. 289.154)<br>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<br>FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 290.878<br>INLET FROM D-106 WITH 300 mm SICPP TO STRUCTURE (INV. 289.543)<br>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<br>FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 290.591<br>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<br>FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 290.701<br>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<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 290.563<br>INLET FROM D-109 WITH 1050 mm SICPP TO STRUCTURE (INV. 288.028)<br>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<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 290.413<br>INLET FROM D-110 WITH 1050 mm SICPP TO STRUCTURE (INV. 288.175)<br>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<br>FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 290.364<br>INLET FROM D-111 WITH 1050 mm SICPP TO STRUCTURE (INV. 288.375)<br>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<br>FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 290.323<br>INLET FROM D-112 WITH 1050 mm SICPP TO STRUCTURE (INV. 288.540)<br>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<br>FRAME & COVER (ITEM 655.1201), T.G. ELEV. 290.239<br>INLET FROM D-114 WITH 900 mm SICPP TO STRUCTURE (INV. 288.700)<br>INLET FROM D-117 WITH 900 mm SICPP TO STRUCTURE (INV. 288.700)<br>OUTLET WITH 20.3 m OF 1050 mm SICPP (ITEM 603.9842) FROM STRUCTURE (INV. 288.675) TO D-111<br>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<br>FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 289.915<br>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<br>FRAME & COVER (ITEM 655.1201), T.G. ELEV. 290.386<br>INLET FROM D-113 WITH 300 mm SICPP TO STRUCTURE (INV. 288.970)<br>INLET FROM D-116 WITH 900 mm SICPP TO STRUCTURE (INV. 288.785)<br>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<br>FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 290.249<br>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<br>FRAME & COVER (ITEM 655.1201), T.G. ELEV. 290.478<br>INLET FROM D-115 WITH 300 mm SICPP TO STRUCTURE (INV. 289.515)<br>INLET FROM D-122 WITH 900 mm SICPP TO STRUCTURE (INV. 288.915)<br>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<br>FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 290.626<br>INLET FROM D-118 WITH 300 mm SICPP TO STRUCTURE (INV. 289.239)<br>INLET FROM D-120 WITH 900 mm SICPP TO STRUCTURE (INV. 289.176)<br>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<br>FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 290.426<br>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<br>FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 290.896<br>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<br>FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 290.997<br>INLET FROM D-119 WITH 300 mm SICPP TO STRUCTURE (INV. 289.740)<br>INLET FROM D-121 WITH 900 mm SICPP TO STRUCTURE (INV. 289.425)<br>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<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 291.590<br>INLET FROM D-125 WITH 750 mm SICPP TO STRUCTURE (INV. 289.984)<br>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<br>FRAME & COVER (ITEM 655.1201), T.G. ELEV. 291.491<br>INLET FROM D-123 WITH 750 mm SICPP TO STRUCTURE (INV. 289.900)<br>INLET FROM D-124 WITH 450 mm SICPP TO STRUCTURE (INV. 289.993)<br>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

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

FISHERABBOCIATES

DRAWING NO. DST-1
SHEET NO. 27 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 CHECKED BY M. BUTCHER
JOB MANAGER M. BUTCHER
DESIGN SUPERVISOR D. JUDSON

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.

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

## DRAINAGE STRUCTURE TABLE (CONT.)

| STR. NO. | STATION/ OFFSET | STRUCTURE ITEM NO./ QUANTITY | DESCRIPTION |
|---|---|---|---|
| D-123 | HR 2+092.19<br>4.00 m RT. | 604.4060<br>2.17 m | INSTALL M.H. (TYPE 60), PROVIDE MANHOLE<br>FRAME & COVER (ITEM 655.1201), T.G. ELEV. 293.349<br>INLET FROM D-128 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 291.400)<br>OUTLET WITH 75.3 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 291.375) TO D-122 |
| D-124 | HR 2+015.74<br>7.91 m RT. | 603.171316<br>1 EA | PROVIDE 525 mm GALVANIZED END SECTION, (INV. 290.615)<br>INLET WITH 3.2 m OF 450 mm SICPP (ITEM 603.9818)<br>FROM STRUCTURE TO D-122 |
| D-125 | HR 2+038.00<br>5.10 m LT. | 604.300203<br>1.68 m | INSTALL D.I. (TYPE B), PROVIDE WELDED RECTANGULAR 3<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 292.027<br>INLET FROM D-126 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 290.572)<br>OUTLET WITH 20.8 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 290.547) TO D-121 |
| D-126 | HR 2+056.66<br>5.10 m LT. | 604.300203<br>1.68 m | INSTALL D.I. (TYPE B), PROVIDE WELDED RECTANGULAR 3<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 292.439<br>INLET FROM D-127 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 290.984)<br>OUTLET WITH 17.5 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 290.959) TO D-125 |
| D-127 | HR 2+108.00<br>4.50 m LT. | 604.301111<br>1.98 m | INSTALL D.I. (TYPE K), PROVIDE RETICULINE 11<br>FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 293.683<br>INLET FROM D-129 WITH 900 mm SICPP TO<br>STRUCTURE (INV. 291.810)<br>OUTLET WITH 9.7 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 291.785) TO D-128<br>OUTLET WITH 50.1 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 291.785) TO D-126 |
| D-128 | HR 2+111.40<br>3.96 m RT. | 604.4096<br>2.38 m | INSTALL M.H. (TYPE 96), PROVIDE MANHOLE<br>FRAME & GRATE (ITEM 655.1201), T.G. ELEV. 293.779<br>INLET FROM D-127 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 291.670)<br>OUTLET WITH 18.2 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 291.645) TO D-123 |
| D-129 | HR 2+135.98<br>6.63 m LT. | 604.311611<br>2.00 m | INSTALL D.I. (TYPE P, ROUND OPTION), PROVIDE RETICULINE 11<br>FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 294.201<br>INLET FROM D-130 WITH 300 mm SICPP TO<br>STRUCTURE (INV. 293.020)<br>INLET FROM D-131 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 292.420)<br>OUTLET WITH 27.1 m OF 900 mm SICPP (ITEM 603.9836)<br>FROM STRUCTURE (INV. 292.395) TO D-127 |
| D-130 | HR 2+140.83<br>12.38 m LT. | 603.171116<br>1 EA | PROVIDE 375 mm GALVANIZED END SECTION, (INV. 294.248)<br>OUTLET WITH 6.1 m OF 300 mm SICPP (ITEM 603.9812)<br>FROM STRUCTURE (INV. 294.248) TO D-129 |
| D-131 | HR 2+157.01<br>9.55 m LT. | 604.301111<br>1.93 m | INSTALL D.I. (TYPE K), PROVIDE RETICULINE 11<br>FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 294.460<br>INLET FROM D-132 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 292.871)<br>INLET FROM D-133 WITH 300 mm SICPP TO<br>STRUCTURE (INV. 293.421)<br>OUTLET WITH 19.6 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 292.846) TO D-129 |
| D-132 | HR 2+166.20<br>4.50 m LT. | 604.300411<br>1.93 m | INSTALL D.I. (TYPE D), PROVIDE RETICULINE 11<br>FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 294.848<br>INLET FROM D-134 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 293.090)<br>OUTLET WITH 10.4 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 293.065) TO D-131 |
| D-133 | WS 1+029.33<br>7.77 m RT. | 603.171116<br>1 EA | PROVIDE 375 mm GALVANIZED END SECTION, (INV. 294.433)<br>INLET WITH 14.7 m OF 300 mm SICPP (ITEM 603.9812)<br>FROM STRUCTURE (INV. 294.433) TO D-131 |
| D-134 | HR 2+236.00<br>5.10 m LT. | 604.300303<br>1.98 m | INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 296.962<br>INLET FROM D-135 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 295.207)<br>OUTLET WITH 68.6 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 295.182) TO D-132 |
| D-135 | HR 2+264.00<br>5.10 m LT. | 604.300303<br>1.98 m | INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 297.784<br>INLET FROM D-136 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 296.029)<br>OUTLET WITH 26.8 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 296.004) TO D-134 |
| D-136 | HR 2+312.00<br>5.10 m LT. | 604.300303<br>1.98 m | INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 299.133<br>INLET FROM D-137 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 297.378)<br>OUTLET WITH 46.8 m OF 750 mm SICPP (ITEM 603.9830)<br>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<br>5.10 m LT. | 604.300303<br>1.98 m | INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 300.524<br>INLET FROM D-137A WITH 750 mm SICPP TO<br>STRUCTURE (INV. 298.769)<br>OUTLET WITH 40.8 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 298.744) TO D-136 |
| D-137A | HR 2+387.00<br>5.10 m LT. | 604.300303<br>1.98 m | INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 301.496<br>INLET FROM D-138 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 300.002)<br>OUTLET WITH 31.9 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 299.977) TO D-137 |
| D-138 | HR 2+410.00<br>5.10 m LT. | 604.300303<br>1.98 m | INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 302.596<br>INLET FROM D-139 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 300.841)<br>OUTLET WITH 22.0 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 300.816) TO D-137A |
| D-139 | HR 2+474.00<br>5.10 m LT. | 604.300303<br>1.98 m | INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 305.053<br>INLET FROM D-140 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 303.298)<br>OUTLET WITH 62.8 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 303.273) TO D-138 |
| D-140 | HR 2+496.76<br>4.77 m LT. | 604.4072<br>1.98 m | INSTALL M.H. (TYPE 72), PROVIDE MANHOLE<br>FRAME & COVER (ITEM 655.1201), T.G. ELEV. 306.153<br>INLET FROM D-141 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 304.440)<br>INLET FROM D-143 WITH 300 mm SICPP TO<br>STRUCTURE (INV. 305.040)<br>OUTLET WITH 23.8 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 304.415) TO D-139 |
| D-141 | HR 2+513.37<br>5.07 m LT. | 604.4060<br>1.98 m | INSTALL M.H. (TYPE 60), PROVIDE MANHOLE<br>FRAME & COVER (ITEM 655.1201), T.G. ELEV. 306.901<br>INLET FROM D-142 WITH 300 mm SICPP TO<br>STRUCTURE (INV. 305.746)<br>INLET FROM D-144 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 305.146)<br>OUTLET WITH 14.6 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 305.121) TO D-140 |
| D-142 | MS 1+011.44<br>4.83 m RT. | 604.302122<br>1.16 m | INSTALL D.I. (TYPE U), PROVIDE RETICULINE 22<br>FRAME & GRATE (ITEM 655.1122), T.G. ELEV. 306.959<br>INLET FROM D-142A WITH 300mm SICPP TO<br>STRUCTURE (INV. 306.025)<br>OUTLET WITH 4.6 m OF 300 mm SICPP (ITEM 603.9812)<br>FROM STRUCTURE (INV. 306.000) TO D-141 |
| D-142A | MS 1+060.00<br>4.34 m RT. | 604.301911<br>0.94 m | INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11<br>FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 308.796<br>OUTLET WITH 47.8 m OF 300 mm SICPP (ITEM 603.9812)<br>FROM STRUCTURE (INV. 308.054) TO D-142 |
| D-143 | MS 1+011.44<br>4.75 m LT. | 604.302122<br>1.11 m | INSTALL D.I. (TYPE U), PROVIDE RETICULINE 22<br>FRAME & GRATE (ITEM 655.1122), T.G. ELEV. 306.693<br>INLET FROM D-143A WITH 300mm SICPP TO<br>STRUCTURE (INV. 305.808)<br>OUTLET WITH 6.1 m OF 300 mm SICPP (ITEM 603.9812)<br>FROM STRUCTURE (INV. 305.783) TO D-140 |
| D-143A | MS 1+060.00<br>4.34 m LT. | 604.301911<br>0.94 m | INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11<br>FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 308.796<br>OUTLET WITH 47.8 m OF 300 mm SICPP (ITEM 603.9812)<br>FROM STRUCTURE (INV. 308.054) TO D-142 |
| D-144 | HR 2+520.00<br>5.10 m LT. | 604.300303<br>1.98 m | INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 307.049<br>INLET FROM D-145 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 305.294)<br>OUTLET WITH 5.4 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 305.269) TO D-141 |
| D-145 | HR 2+566.00<br>5.10 m RT. | 604.300303<br>1.98 m | INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 309.056<br>INLET FROM D-146 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 307.302)<br>OUTLET WITH 44.8 m OF 750 mm SICPP (ITEM 603.9830)<br>FROM STRUCTURE (INV. 307.277) TO D-144 |
| D-146 | HR 2+594.00<br>5.10 m LT. | 604.300303<br>1.98 m | INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3<br>FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 310.278<br>INLET FROM D-147 WITH 750 mm SICPP TO<br>STRUCTURE (INV. 308.523)<br>OUTLET WITH 28.9 m OF 750 mm SICPP (ITEM 603.9830)<br>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 M. BUTCHER DRAFTED BY T. DAVIS ESTIMATED BY CHECKED BY R. BENNETT

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

## DRAINAGE STRUCTURE TABLE (CONT.)

| STR. NO. | STATION/ OFFSET | STRUCTURE ITEM NO./ QUANTITY | DESCRIPTION |
|---|---|---|---|
| D-147 | HR 2+626.00<br>5.10 m LT. | 604.300303<br>1.98 m | INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 311.675<br>INLET FROM D-148 WITH 300 mm SICPP TO STRUCTURE (INV. 310.519)<br>INLET FROM D-149 WITH 750 mm SICPP TO STRUCTURE (INV. 309.920)<br>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<br>10.33 m LT. | 603.171814<br>1EA | PROVIDE 900mm GALVANIZED END SECTION, (INV. 310.687)<br>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<br>5.10 m LT. | 604.300303<br>1.97 m | INSTALL D.I. (TYPE C), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 312.547<br>INLET FROM D-150 WITH 750 mm SICPP TO STRUCTURE (INV. 310.930)<br>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<br>5.10 m LT. | 604.300203<br>1.98 m | INSTALL D.I. (TYPE B), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 313.412<br>INLET FROM D-151 WITH 750 mm SICPP TO STRUCTURE (INV. 311.656)<br>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<br>5.10 m LT. | 604.300203<br>1.98 m | INSTALL D.I. (TYPE B), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 314.533<br>INLET FROM D-152 WITH 750 mm SICPP TO STRUCTURE (INV. 312.777)<br>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<br>9.22 m LT. | 603.171614<br>1 EA | PROVIDE 750 mm GALVANIZED END SECTION, (INV. 313.528)<br>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<br>5.10 m LT. | 604.300203<br>1.83 m | INSTALL D.I. (TYPE B), PROVIDE WELDED RECTANGULAR 3 FRAME & GRATE (ITEM 655.1003), T.G. ELEV. 315.617<br>INLET FROM D-153 WITH 750 mm SICPP TO STRUCTURE (INV. 314.012)<br>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<br>2.91 m LT. | 604.4096<br>1.81 m | INSTALL M.H. (TYPE 96), PROVIDE MANHOLE FRAME & COVER (ITEM 655.1201), T.G. ELEV. 315.923<br>INLET FROM D-154 WITH 600 mm mm SICPP TO STRUCTURE (INV. 314.343)<br>INLET FROM D-153A WITH 600 mm SICPP TO STRUCTURE (INV. 314.343)<br>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<br>9.67 m LT. | 603.171614<br>1 EA | PROVIDE 750 mm GALVANIZED END SECTION, (INV. 315.290)<br>OUTLET WITH 23.2 m OF 600 mm SICPP (ITEM 603.9824) |
| D-154 | HR 2+754.39<br>8.85 m LT. | 604.300691<br>1.64 m | INSTALL D.I. (TYPE F), PROVIDE PARALLEL BAR 11PCB FRAME & GRATE (ITEM 655.0902), T.G. ELEV. 315.980<br>INLET FROM D-155 WITH 375 mm SICPP TO STRUCTURE (INV. 315.022)<br>INLET FROM D-154A WITH 600 mm SICPP TO STRUCTURE (INV. 314.822)<br>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<br>8.15 m RT. | 603.171614<br>1 EA | PROVIDE 750 mm GALVANIZED END SECTION, (INV. 315.350)<br>OUTLET WITH 16.0 m OF 600 mm SICPP (ITEM 603.9824) |
| D-155 | HR 2+772.00<br>5.10 m LT. | 604.302192<br>1.43 m | INSTALL D.I. (TYPE U), PROVIDE PARALLEL BAR 12PCB FRAME & GRATE (ITEM 655.0902), T.G. ELEV. 316.716<br>INLET FROM D-156 WITH 300 mm SICPP TO STRUCTURE (INV. 315.560)<br>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<br>5.10 m LT. | 604.301990<br>1.38 m | INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 317.470<br>INLET FROM D-157 WITH 300 mm SICPP TO STRUCTURE (INV. 316.314)<br>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<br>5.10 m LT. | 604.301990<br>1.38 m | INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 318.432<br>INLET FROM D-158 WITH 300 mm SICPP TO STRUCTURE (INV. 317.276)<br>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<br>5.10 m LT. | 604.301990<br>1.38 m | INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 319.492<br>INLET FROM D-159 WITH 300 mm SICPP TO STRUCTURE (INV. 318.336)<br>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<br>5.10 m LT. | 604.301990<br>1.38 m | INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 320.546<br>INLET FROM D-160 WITH 300 mm SICPP TO STRUCTURE (INV. 319.390)<br>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<br>5.10 m LT. | 604.301990<br>1.38 m | INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 321.161<br>INLET FROM D-161 WITH 300 mm SICPP TO STRUCTURE (INV. 320.005)<br>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<br>5.10 m LT. | 604.301990<br>1.38 m | INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 321.864<br>INLET FROM D-162 WITH 300 mm SICPP TO STRUCTURE (INV. 320.708)<br>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<br>5.10 m LT. | 604.301990<br>1.38 m | INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 322.742<br>INLET FROM D-163 WITH 300 mm SICPP TO STRUCTURE (INV. 321.586)<br>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<br>5.10 m LT. | 604.301990<br>1.38 m | INSTALL D.I. (TYPE S), PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 323.362<br>INLET FROM D-164 WITH 300 mm SICPP TO STRUCTURE (INV. 322.206)<br>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<br>4.60 m LT. | 604.301911<br>1.38 m | INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 324.136<br>INLET FROM D-165 WITH 300 mm SICPP TO STRUCTURE (INV. 322.855)<br>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<br>4.60 m LT. | 604.301911<br>1.38 m | INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 325.303<br>INLET FROM D-166 WITH 300 mm SICPP TO STRUCTURE (INV. 324.028)<br>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<br>4.60 m LT. | 604.301911<br>1.38 m | INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 326.304<br>INLET FROM D-167 WITH 300 mm SICPP TO STRUCTURE (INV. 324.988)<br>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<br>4.60 m LT. | 604.301911<br>1.38 m | INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 327.026<br>INLET FROM D-168 WITH 300 mm SICPP TO STRUCTURE (INV. 325.720)<br>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<br>4.60 m LT. | 604.301911<br>1.38 m | INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 327.823<br>INLET FROM D-169 WITH 300 mm SICPP TO STRUCTURE (INV. 326.541)<br>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<br>4.60 m LT. | 604.301911<br>1.38 m | INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 328.810<br>INLET FROM D-170 WITH 300 mm SICPP TO STRUCTURE (INV. 327.460)<br>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<br>4.60 m LT. | 604.301911<br>1.51 m | INSTALL D.I. (TYPE S), PROVIDE RETICULINE 11 FRAME & GRATE (ITEM 655.1111), T.G. ELEV. 330.216<br>INLET FROM D-171A WITH 300 mm SICPP TO STRUCTURE (INV. 328.775)<br>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<br>5.10 m LT. | 604.301990<br>1.89 m | INSTALL D.I. (TYPE S) PROVIDE PARALLEL BAR 10PCB FRAME & GRATE (ITEM 655.0901), T.G. ELEV. 330.668<br>INLET FROM D-171 WITH 300 mm SICPP TO STRUCTURE (INV. 328.775)<br>OUTLET WITH 39.8 m OF 300 mm SICPP (ITEM 603.9812) FROM STRUCTURE (INV. 328.975) TO D-170 |

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 18.8 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 46.8 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
MAY 2013

BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

DRAINAGE TABLES

FISHERASSOCIATES

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

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<br>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

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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 REMOVAL TABLES

FISHER ASSOCIATES

DRAWING NO. DRT-1
SHEET NO. 31 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

## 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 m² | 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 m² | 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.

## DETECTABLE WARNINGS - ITEM 608.20

| STATION | SIDE | TYPE | ITEM 608.20 m² |
|---|---|---|---|
| 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 m² |

## 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 m³ | 409.7 MT | 656 m³ |

## 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 |

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-1
SHEET NO. 32 OF 130

DOCUMENT NAME: 375325A_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

## 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: 3753258_MT.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

## 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
5-14-2013

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

FISHER ASSOCIATES

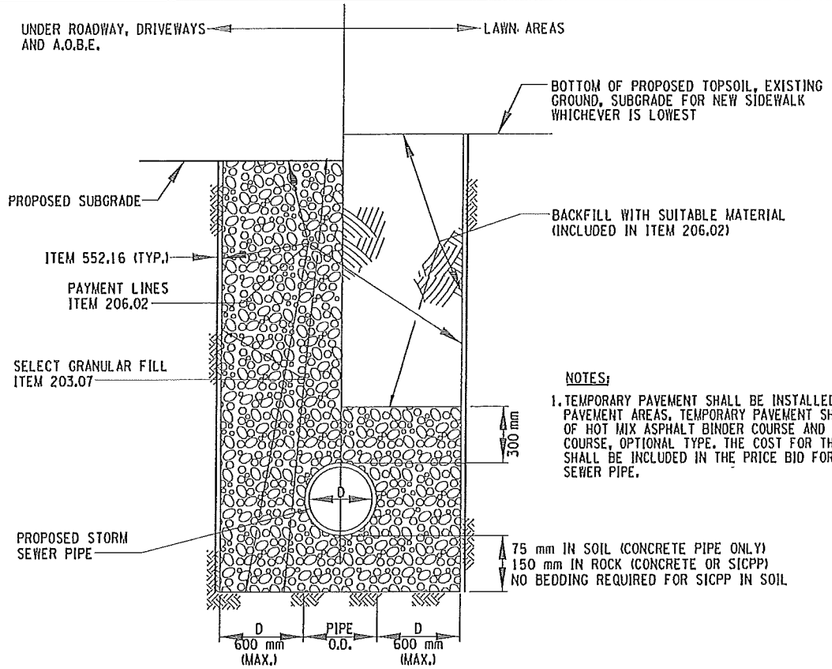
DRAWING NO. MT-3
SHEET NO. 34 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: 375325C_MT.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

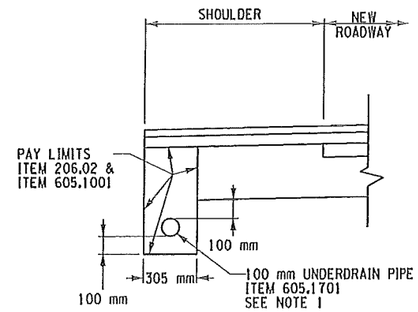



NOTES:

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

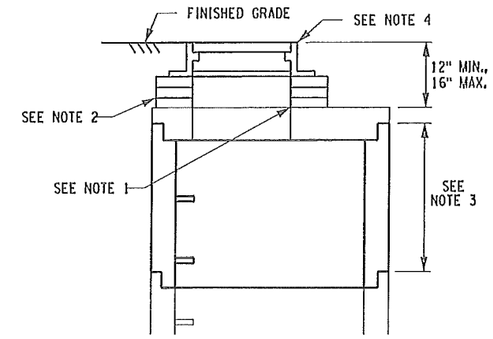



NOTES

1. CENTER PIPE IN TRENCH HORIZONTALLY.

UNDERDRAIN DETAIL

NOT TO SCALE




ALTER SANITARY SEWER MANHOLE

(ADJUST TOP SLAB)

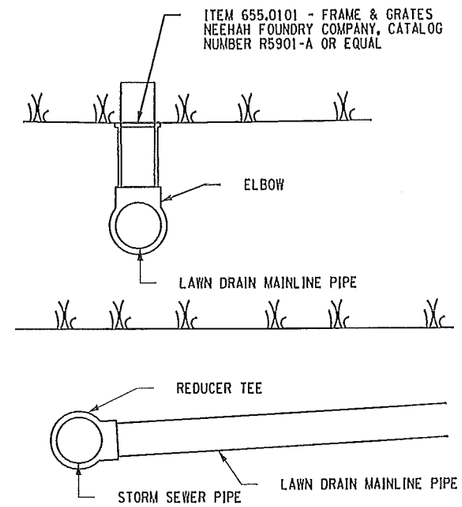
STRUCTURE ALTERATION NOTES:

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

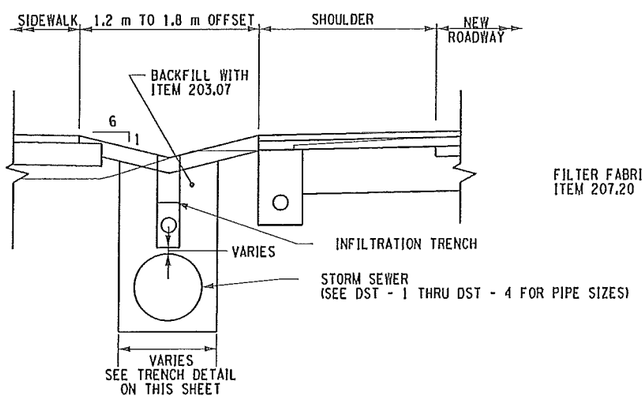
N.T.S.

ITEM 604.070301 - ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES



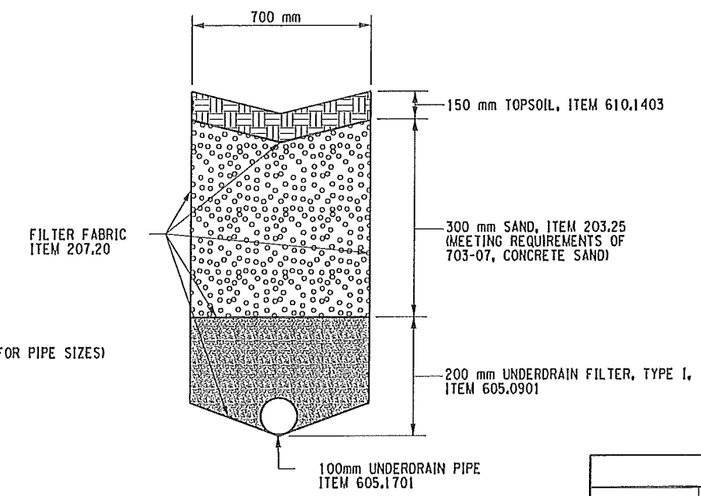

FIELD INLET DETAIL

NOT TO SCALE



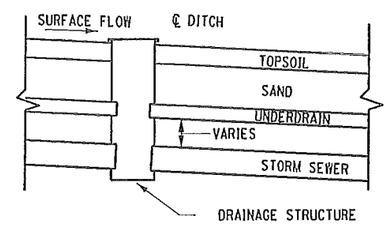

TYPICAL TRENCH DETAIL FOR STORM SEWER

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 ($m^3$) | T&C EXCAV. ITEM 206.02 ($m^3$) | 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 | 25.24 | 10.10 | 72.11 | 252.4 |
| HR 1+775.938 | TO | HR 1+848.000 | LT | 72.06 | 15.13 | 25.22 | 10.09 | 72.06 | 252.2 |
| HR 1+897.995 | TO | HR 1+959.000 | LT | 61.01 | 12.81 | 21.35 | 8.54 | 61.01 | 213.5 |
| HR 1+981.000 | TO | HR 2+055.000 | LT | 74.00 | 15.54 | 25.90 | 10.36 | 74.00 | 259.0 |
| HR 2+234.205 | TO | HR 2+368.150 | LT | 133.95 | 28.13 | 46.88 | 18.75 | 133.95 | 468.3 |
| HR 2+386.000 | TO | HR 2+494.000 | LT | 108.00 | 22.68 | 37.80 | 15.12 | 108.00 | 378.0 |
| HR 2+520.000 | TO | HR 2+730.000 | LT | 210.00 | 44.10 | 73.50 | 29.40 | 210.00 | 735.0 |
| HR 2+772.500 | TO | HR 3+050.000 | LT | 277.50 | 58.28 | 97.13 | 38.85 | 277.50 | 971.3 |
| HR 3+300.000 | TO | HR 3+430.000 | LT | 130.00 | 27.30 | 45.50 | 18.20 | 130.00 | 455.0 |
| | | | | TOTALS | 240 $m^3$ | 400 $m^3$ | 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

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_DD.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

DRAINAGE DETAILS

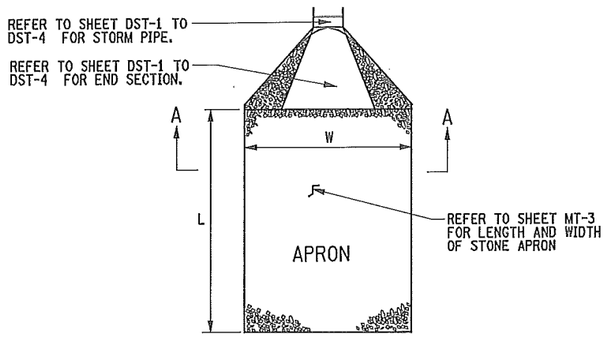
FISHERASSOCIATES

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

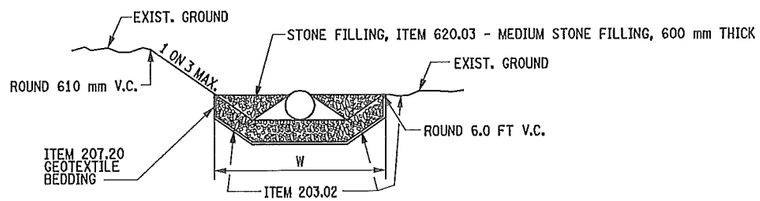
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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 = DGNSPEC
DATE/TIME = 5/29/2013
USER = MARKB



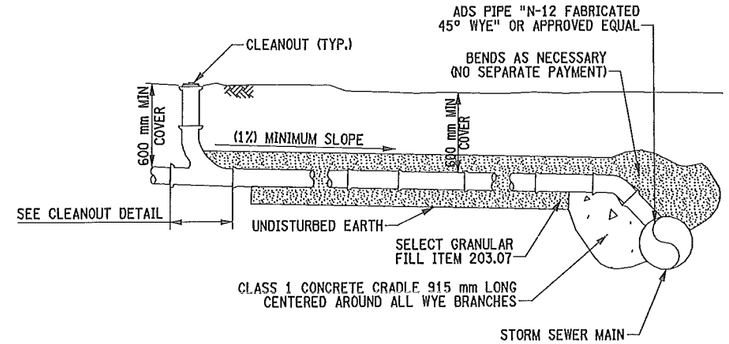

PLAN




SECTION A-A

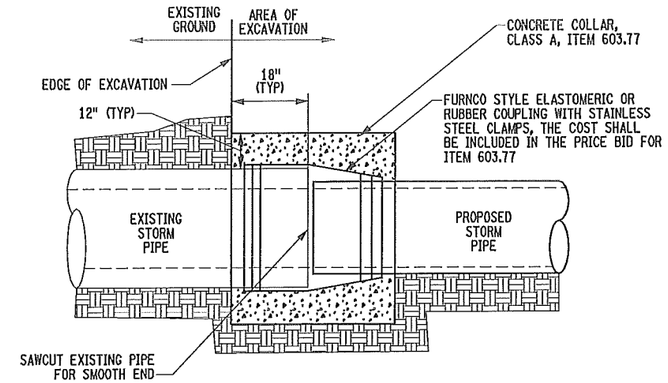
## TYPICAL STONE APRON DETAIL

NOT TO SCALE




## TYPICAL STORM LATERAL DETAIL

NOT TO SCALE

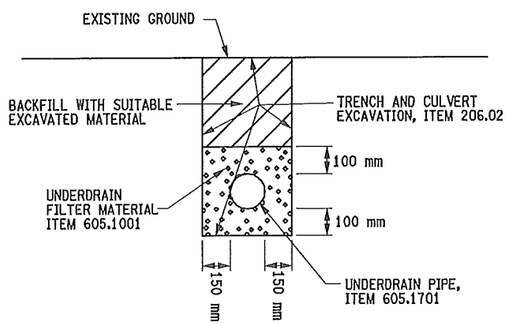



NOTES:

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

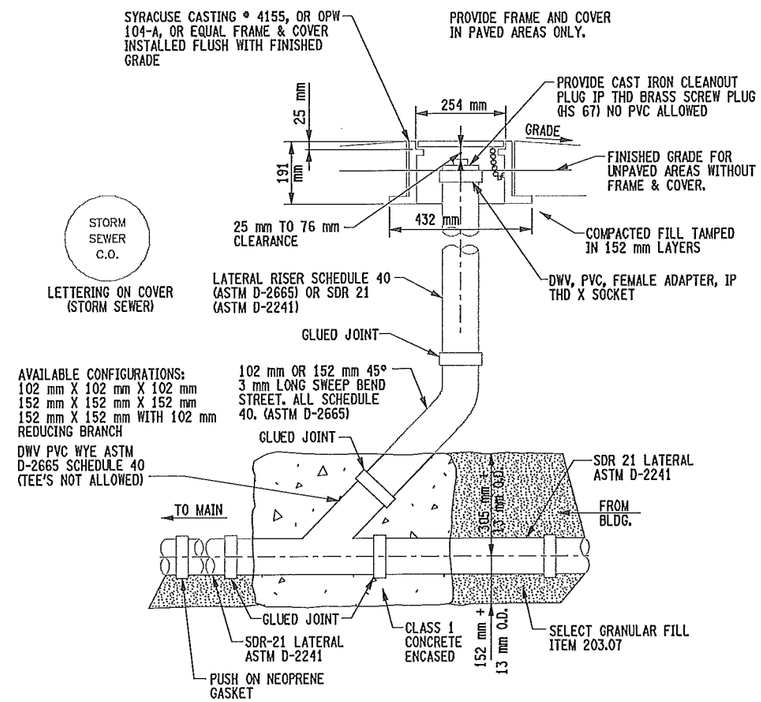
## CONNECT PROPOSED STORM PIPE TO EXISTING STORM PIPE

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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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

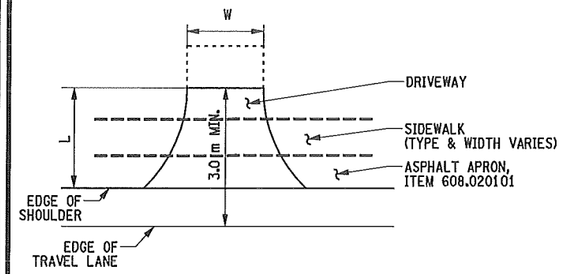
DRAWING NO. MD-2
SHEET NO. 36 OF 130

DOCUMENT NAME: 3753258_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

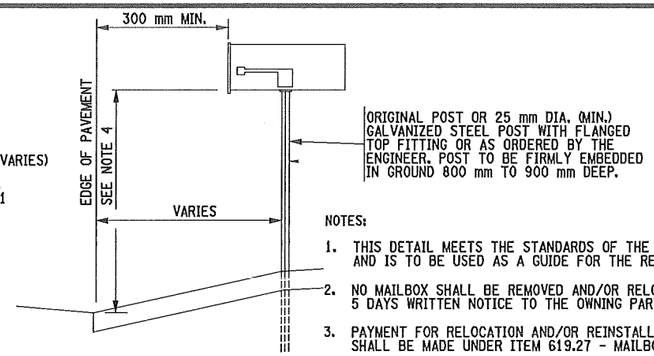



## TYPICAL RESIDENTIAL DRIVEWAY TREATMENT

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.

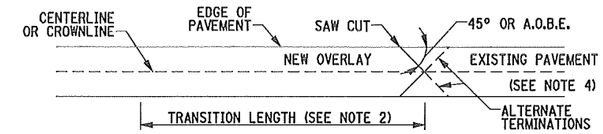



NOTES:

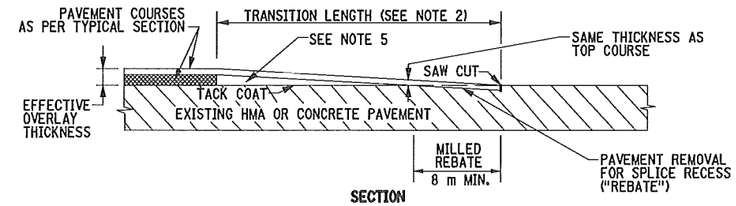
1. THIS DETAIL MEETS THE STANDARDS OF THE U.S. POSTAL SERVICE AND IS TO BE USED AS A GUIDE FOR THE RELOCATION OF MAILBOXES
2. NO MAILBOX SHALL BE REMOVED AND/OR RELOCATED WITHOUT 5 DAYS WRITTEN NOTICE TO THE OWNING PARTY
3. PAYMENT FOR RELOCATION AND/OR REINSTALLATION OF MAILBOXES SHALL BE MADE UNDER 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




PLAN




SECTION

## HOT MIX ASPHALT OVERLAY SPLICE
## (PAVEMENT TERMINATION DETAIL)

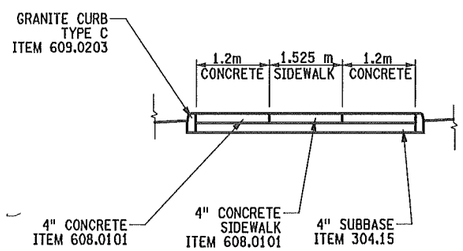
NOT TO SCALE

NOTES:

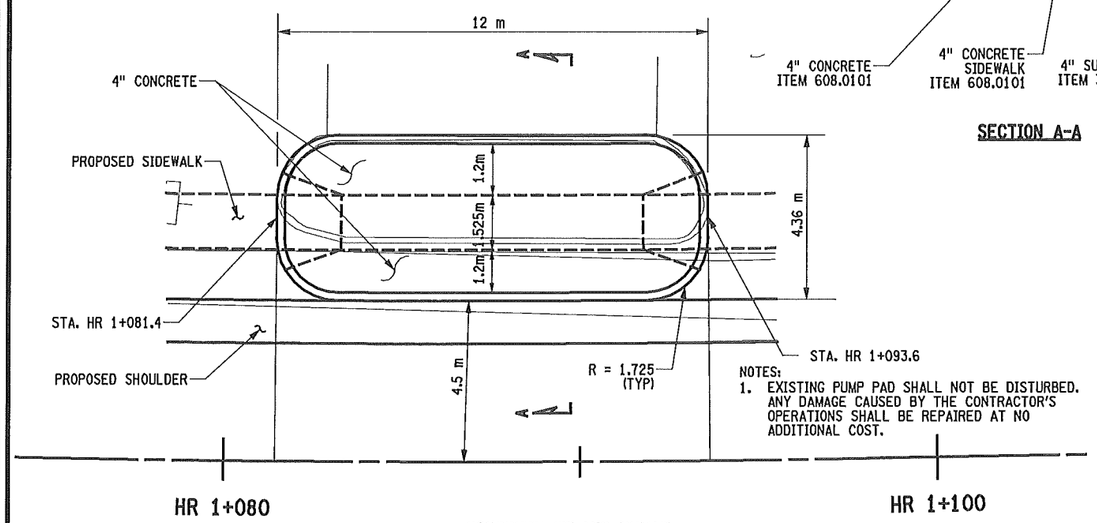
1. HOT MIX ASPHALT (HMA) OVERLAY SPLICES SHALL BE USED AT; ENDS OF HMA OVERLAY HIGHWAY SECTIONS, MAJOR INTERSECTIONS, OTHER LOCATIONS INDICATED IN THE PLANS, AND WHERE ORDERED BY THE ENGINEER.
2. THE TRANSITION LENGTH IN METERS SHALL NOT BE LESS THAN THE VALUE OBTAINED BY MULTIPLYING THE EFFECTIVE OVERLAY 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 HMA 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 |



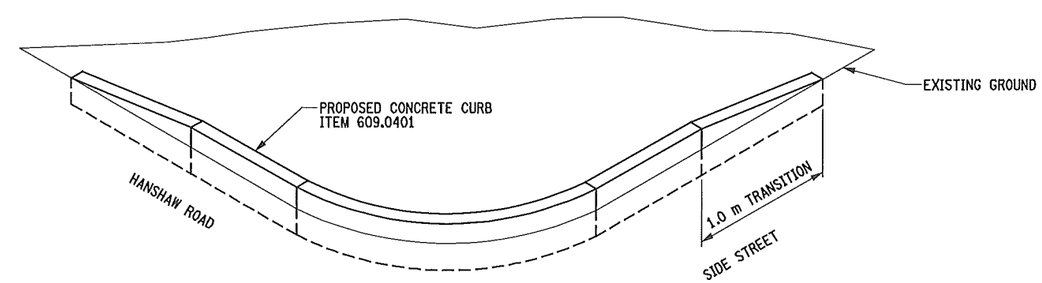

## SECTION A-A




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

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ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

MISCELLANEOUS DETAILS

FISHER ASSOCIATES

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 = DGN&SPEC
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 |

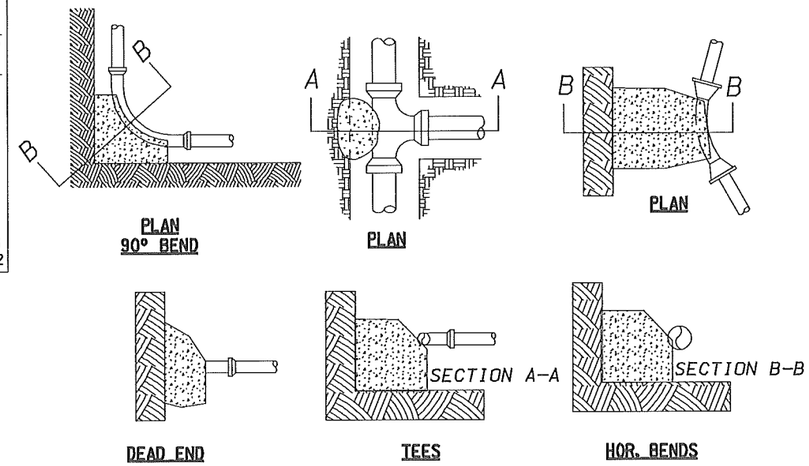
## TABLE 2

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

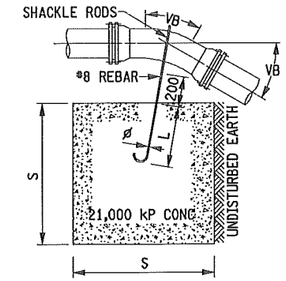



THRUST BLOCK DETAIL
SEE TABLES 1 AND 2
(NOT TO SCALE)

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

| PIPE SIZE NOM DIA (mm) | VB: 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 | 5.8 | 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 |

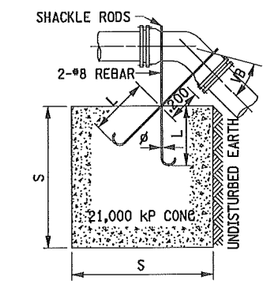
* FOR 60KSI THREADED REBAR




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

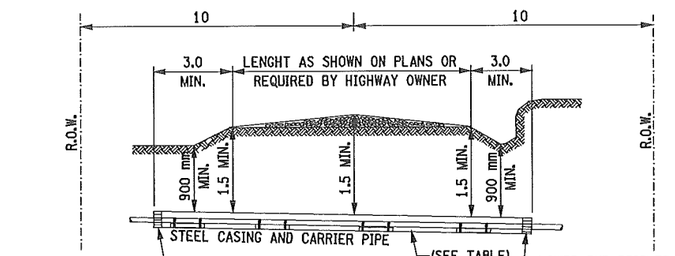
TYPE B BLOCKING FOR 45° VERTICAL BENDS

| 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 | 20 | .490 |
| 150 | 1.7 | 1.20 | | |
| 200 | 2.9 | 1.40 | | |
| 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

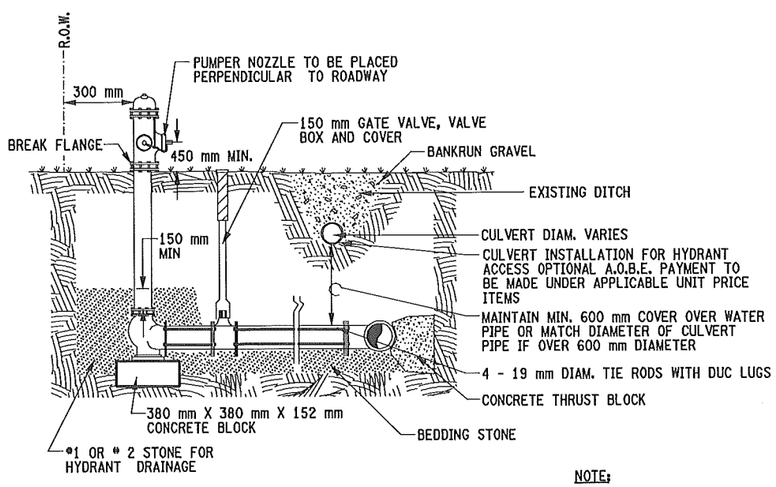
MIN D=6ø FOR #3 THROUGH #8
MIN D=8ø FOR #9,#10, AND #11




TABLE

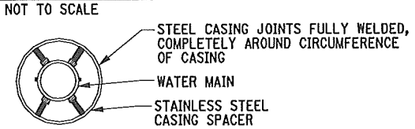
| MINIMUM WALL THICKNESS COATED STEEL CASING | |
|---|---|
| NOMINAL DIAMETER mm | NOMINAL THICKNESS mm |
| UNDER 14 | 5 |
| 355-406 | 6 |
| 457 | 6 |
| 508 | 7 |
| 560 | 8 |
| 600 | 9 |

LONGITUDINAL SECTION
NOT TO SCALE

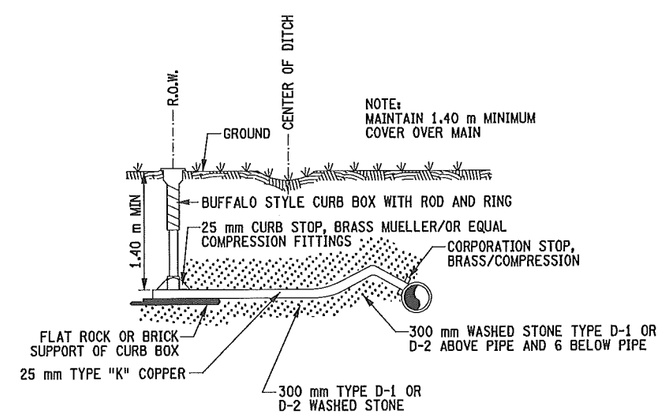



TYPICAL HYDRANT INSTALLATION
NOT TO SCALE

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




TYPICAL DETAILS OF HIGHWAY CROSSING
NOT TO SCALE



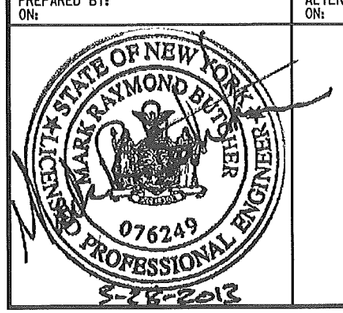

NOTE:
MAINTAIN 1.40 m MINIMUM COVER OVER MAIN

SERVICE CONNECTION
NOT TO SCALE

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

PREPARED BY:
ON:

ALTERED BY:
ON:

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VILLAGE OF CAYUGA HEIGHTS
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PIN 3753.25

PS&E DATE
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BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

MISCELLANEOUS DETAILS

FISHERASSOCIATES

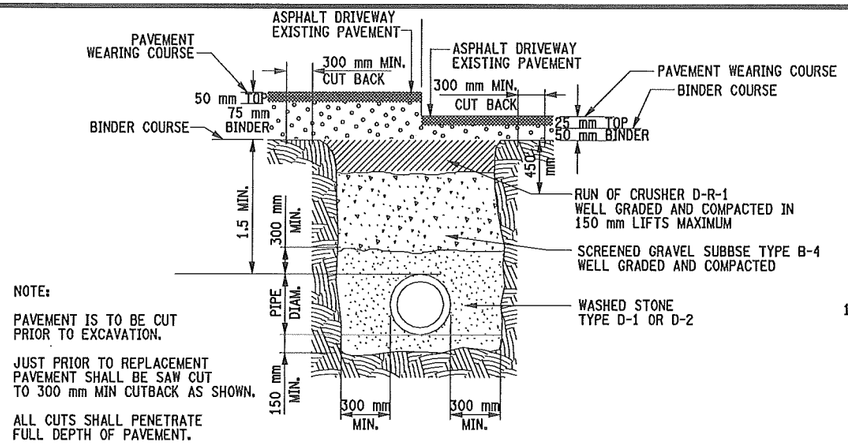
DRAWING NO. MD-4
SHEET NO. 38OF 130

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:

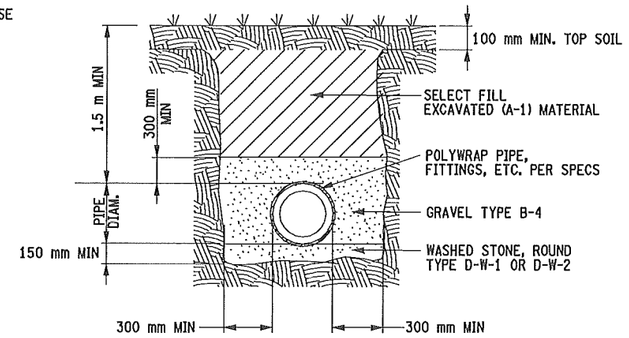
PAVEMENT IS TO BE CUT PRIOR TO EXCAVATION.

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

ALL CUTS SHALL PENETRATE FULL DEPTH OF PAVEMENT.

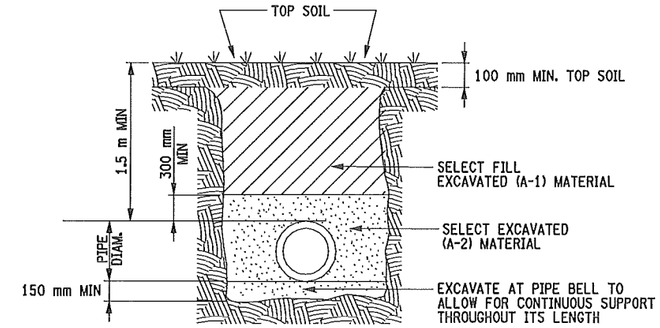
**WATER TRENCH IN PAVED ROADWAY**

(NOT TO SCALE)




**TRENCH SECTION**
**WATER MAIN W/ POLYWRAP**

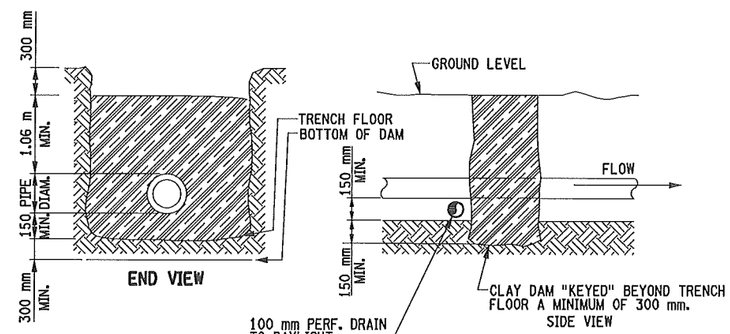
NOT TO SCALE




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

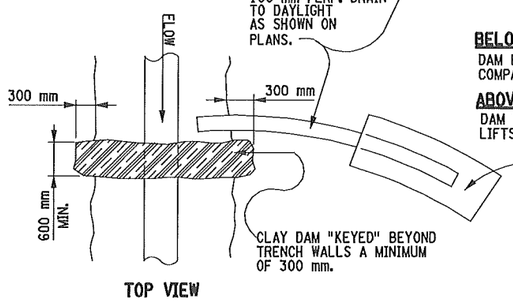



**BELOW PIPE INVERT**

DAM BASE TO BE PLACED AND COMPACTED BEFORE LAYING PIPE

**ABOVE PIPE INVERT**

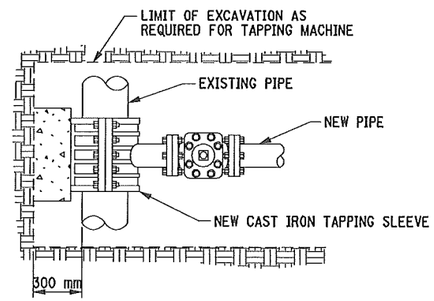
DAM TO BE CONSTRUCTED AND COMPACTED IN 300 mm LIFTS TO WITHIN 300 mm OF FINISHED GRADE.



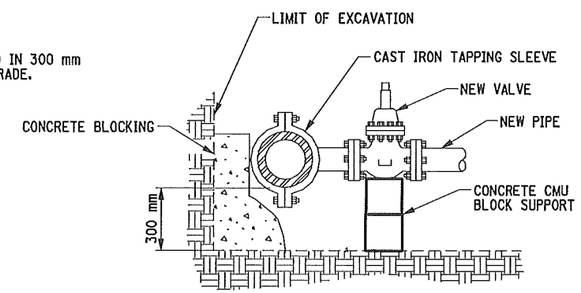

3.0 m OF 150 mm C.M.P. SLEEVE ON DAYLIGHT END OF DRAIN.
100 mm PERFORATED DRAIN TO BE BEDDED WITH 150 mm INCHES OF D-1 STONE UNDER PIPE AND BACKFILLED WITH A MINIMUM OF 150 mm OF D-1 STONE OVER THE PIPE. SECURELY FASTENED RODENT GUARD ON DAYLIGHT END OF PIPE.

**TRENCH LINETRENCHING, CLAY DAM & RELIEF DRAIN**

NOT TO SCALE



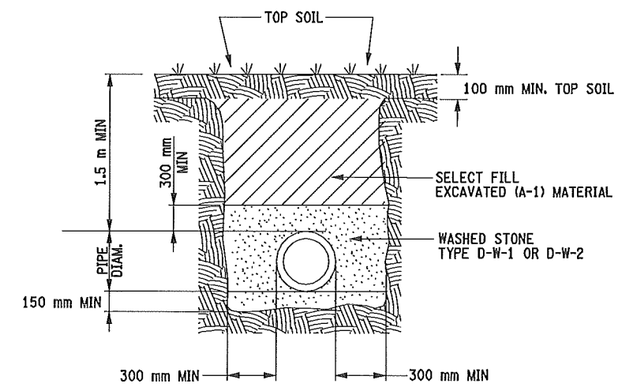

**PLAN VIEW**




**SECTIONAL VIEW**

**TAPPING SLEEVE AND VALVE INSTALLATION DETAIL**

NOT TO SCALE




**TRENCH SECTION**
**WATER MAIN IN ROCK**

NOT TO SCALE

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|---|---|
| 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 DETAILS

FISHERASSOCIATES

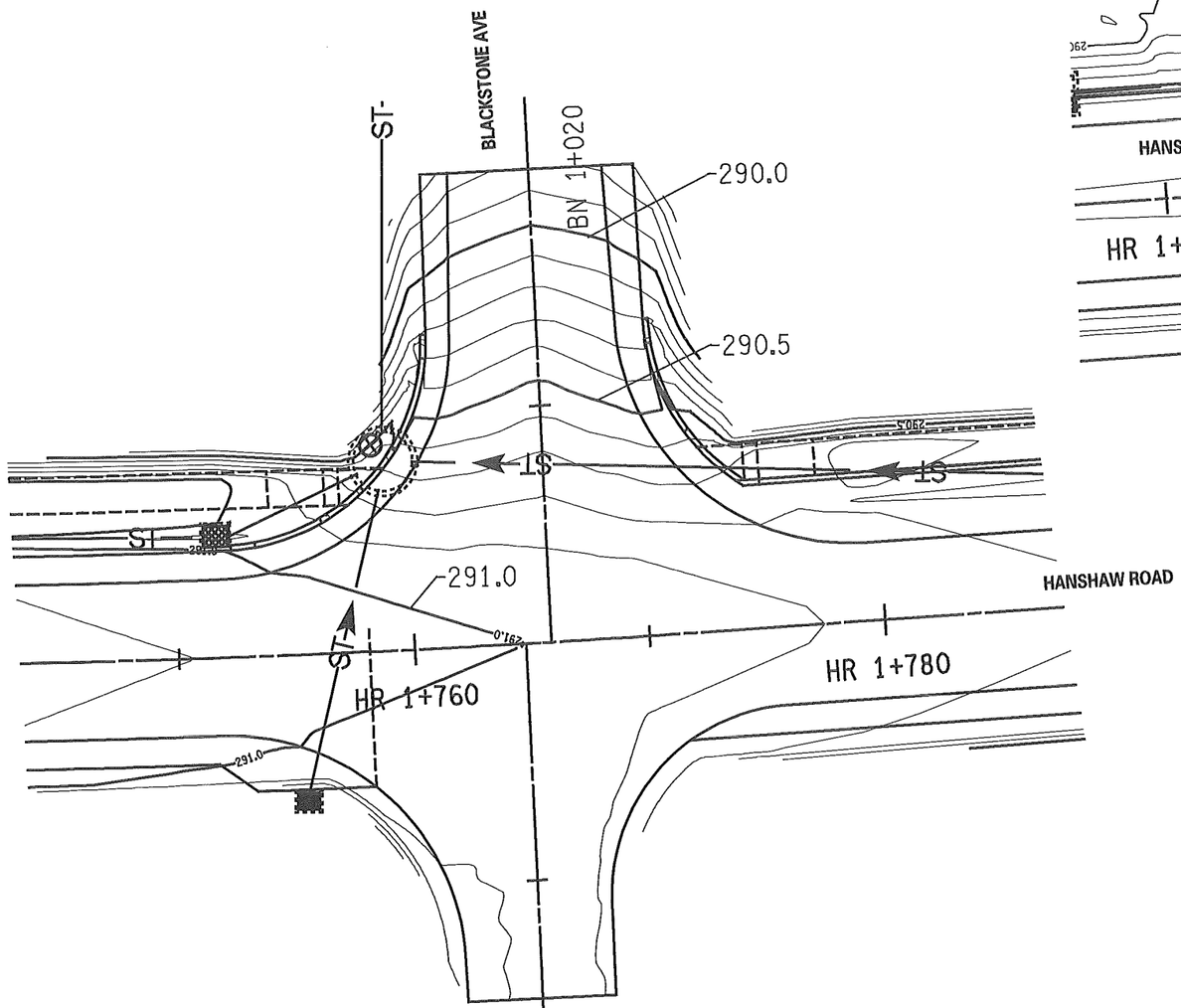
DRAWING NO. MD-5
SHEET NO. 39 OF 130

DOCUMENT NAME: 375325o_md.dgn

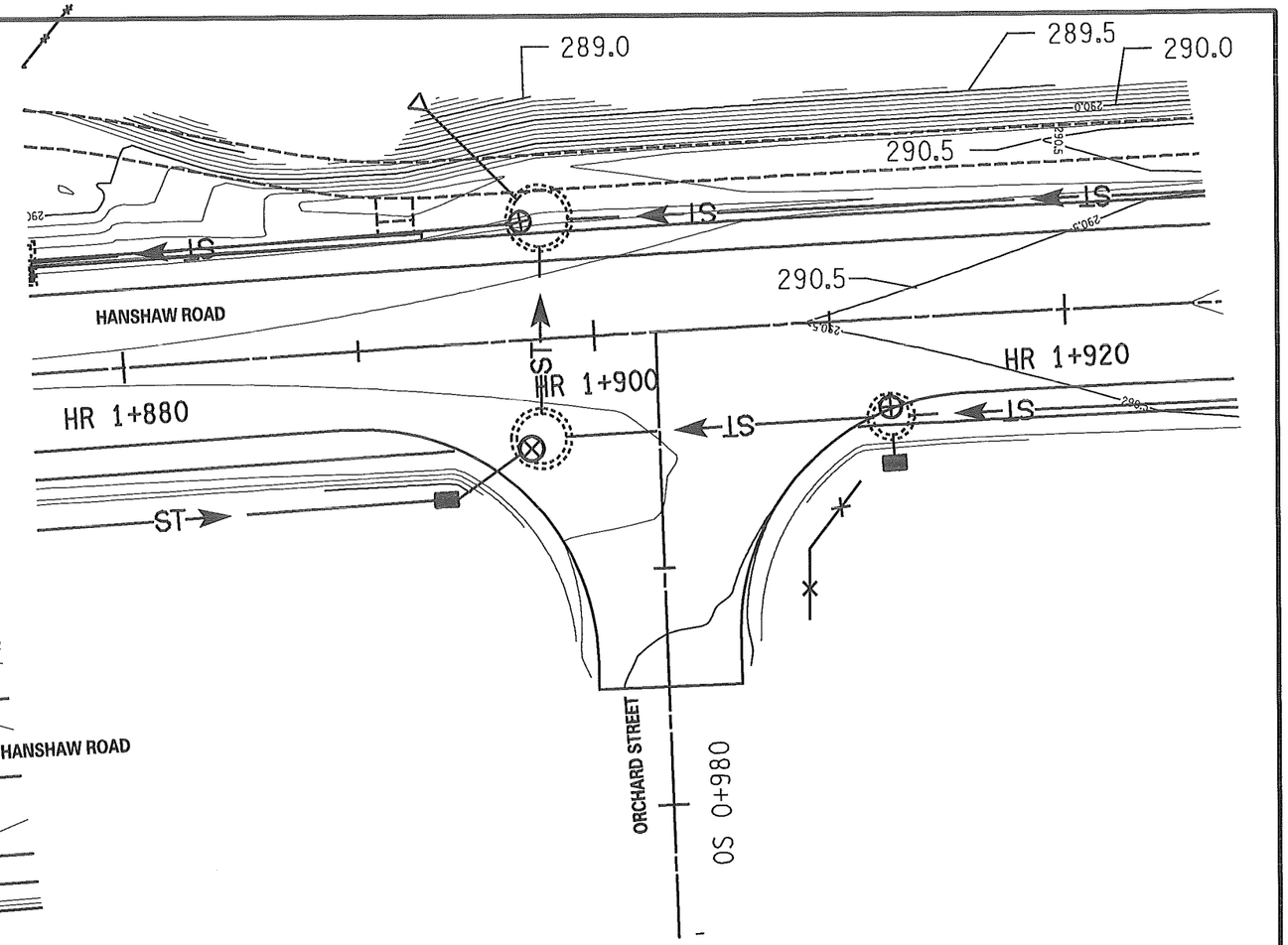
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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

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|---|---|
| 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: $FILENAME$

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

INTERSECTION CONTOUR PLANS

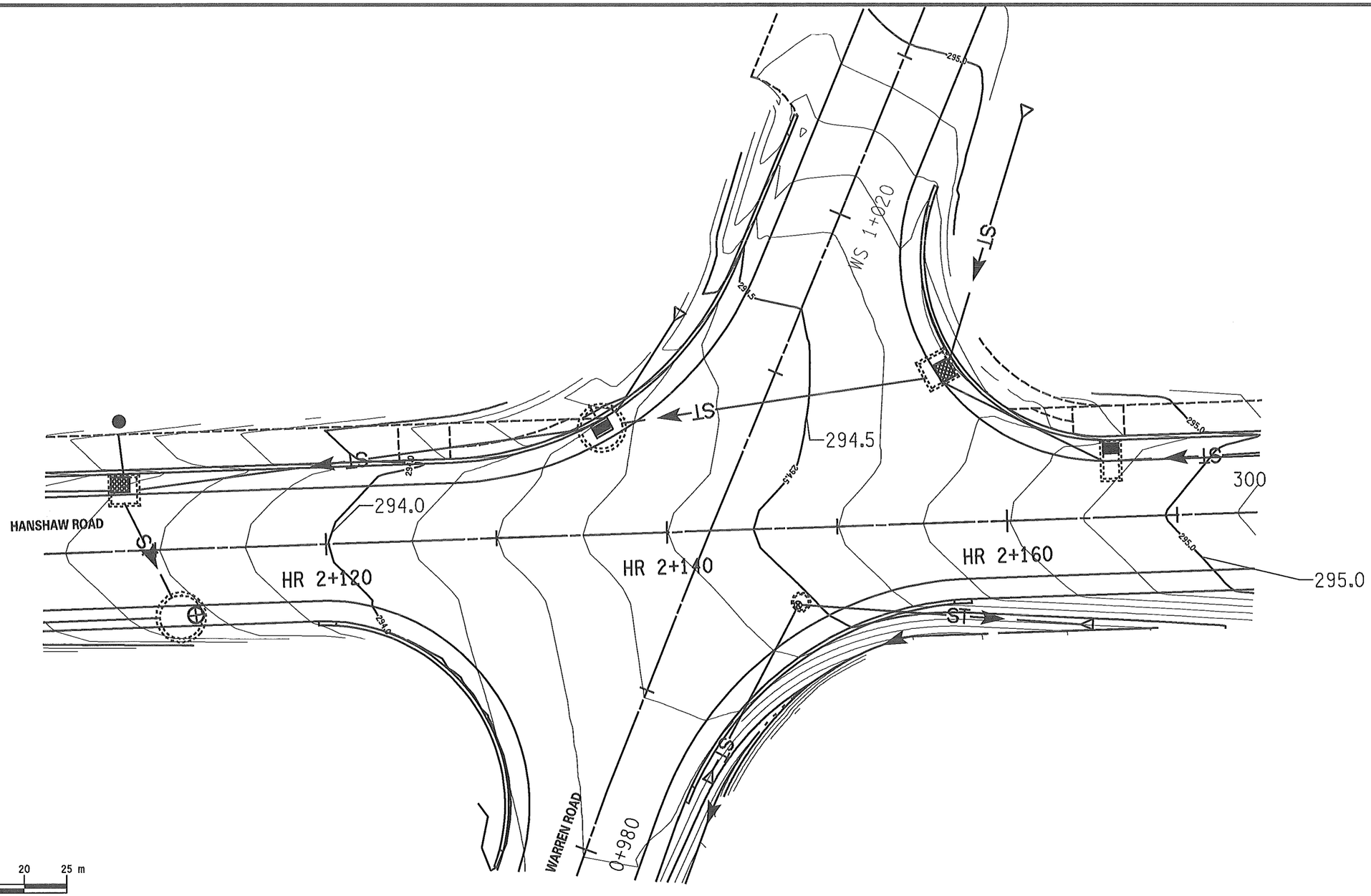
FISHER ASSOCIATES

DRAWING NO. ICP-1
SHEET NO. 40 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




5 0 5 10 15 20 25 m

SCALE

HANSHAW/WARREN INTERSECTION CONTOURS

| 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.

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
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

INTERSECTION CONTOUR PLANS

FISHER ASSOCIATES

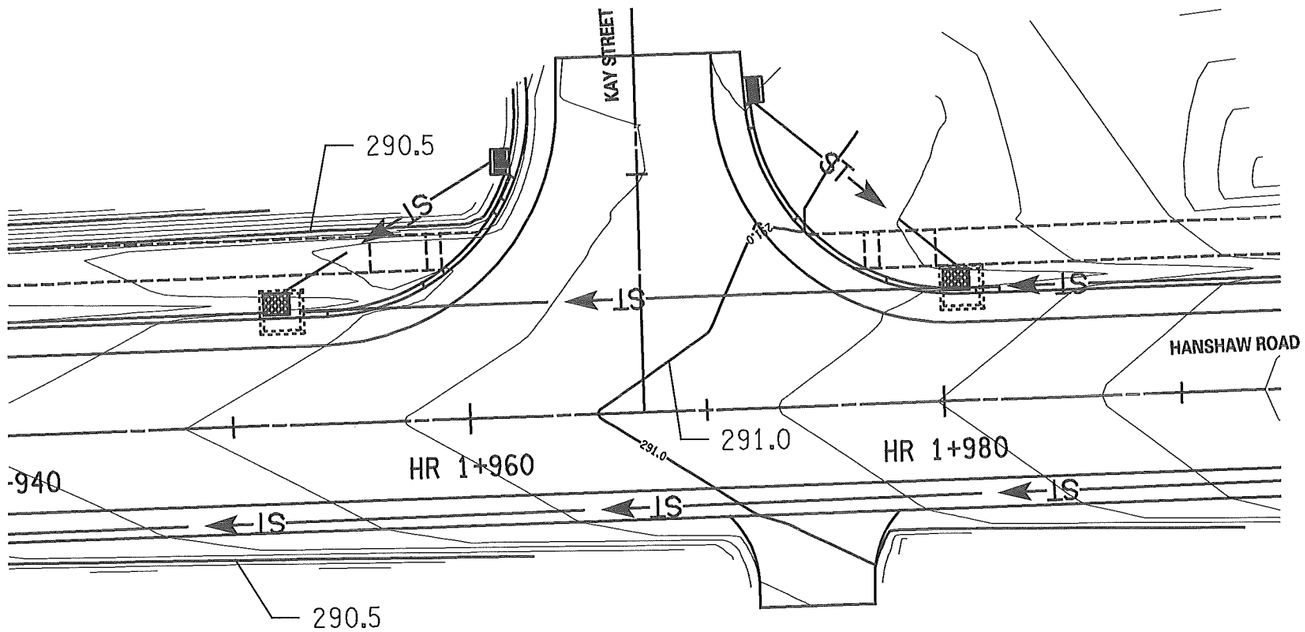
DRAWING NO. ICP-2
SHEET NO. 41 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

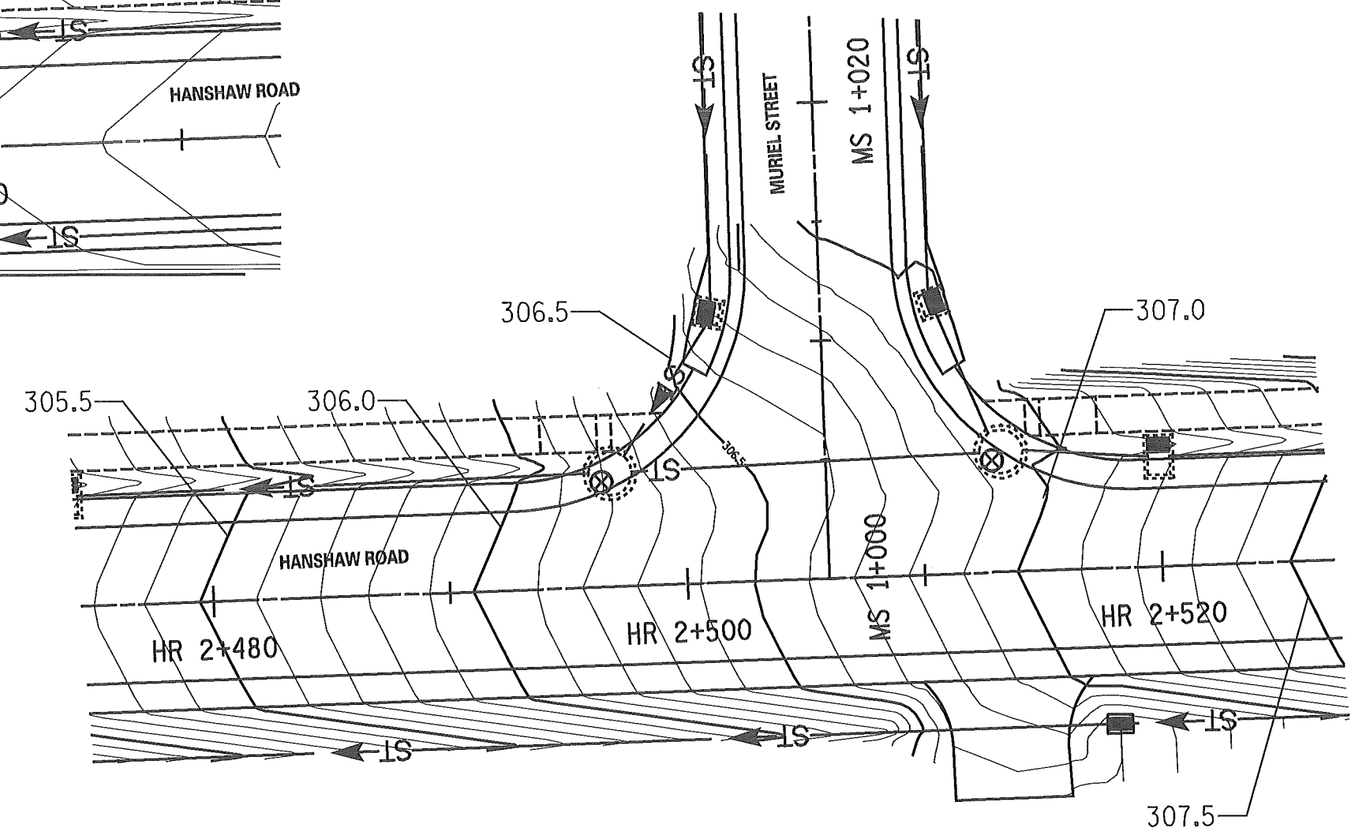
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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/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

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CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

INTERSECTION CONTOUR PLANS

FISHERASSOCIATES

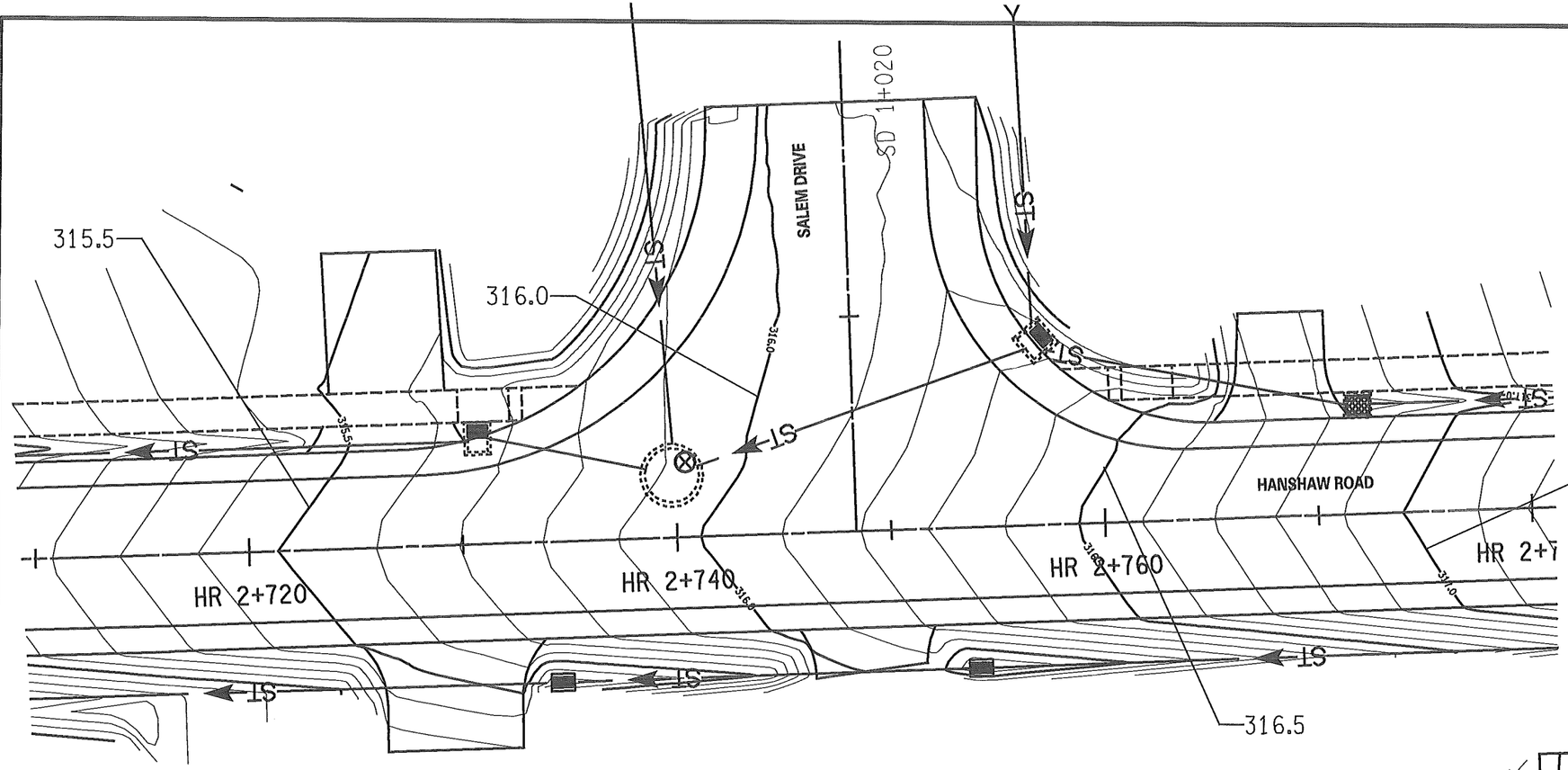
DRAWING NO. ICP-3
SHEET NO. 42 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

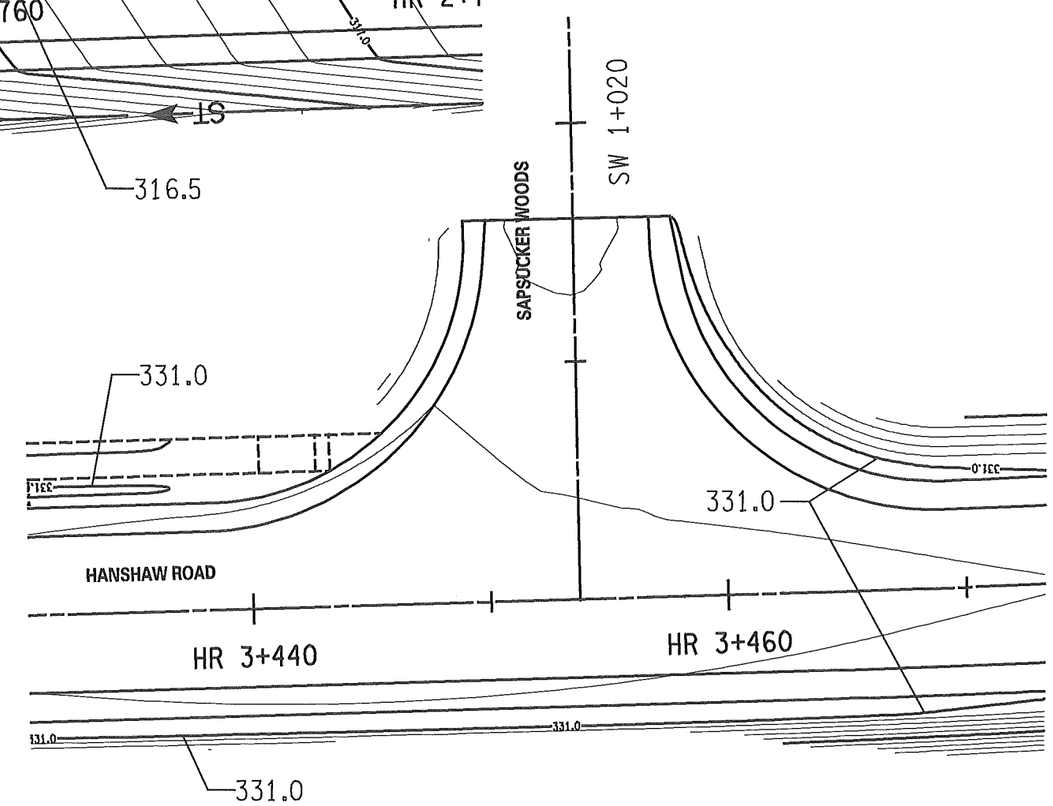
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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




HANSHAW/SALEM INTERSECTION CONTOURS




HANSHAW/SAPSUCKER WOODS 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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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

INTERSECTION CONTOUR PLANS

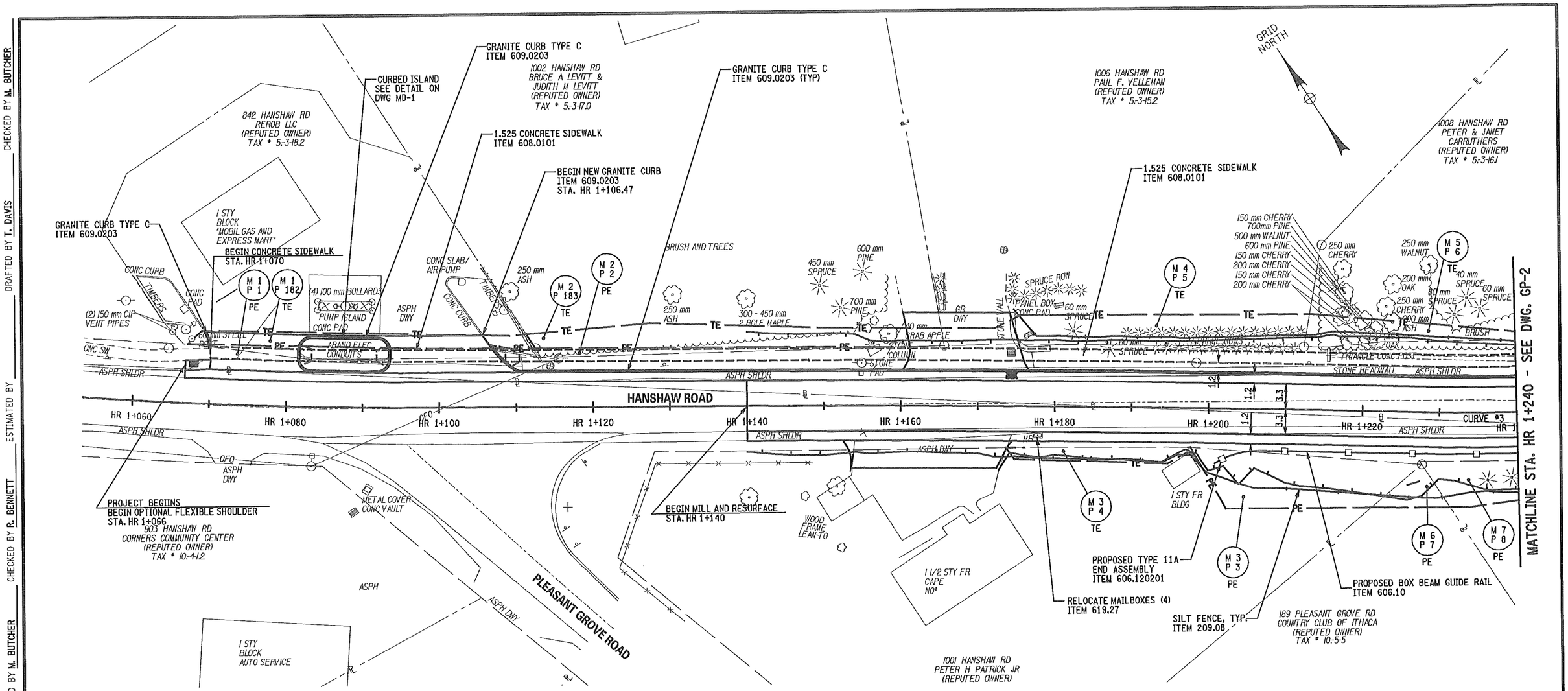
FISHERASSOCIATES

DRAWING NO. ICP-4
SHEET NO. 43 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




0 5 10 15 20 25 m
SCALE

| CURVE 1 | |
|---|---|
| P.C. | STA. HR 0+994.586<br>N 274220.479<br>E 258560.022 |
| P.I. | STA. HR 1+046.599<br>N 274185.193<br>E 258598.236 |
| P.T. | STA. HR 1+098.374<br>N 274156.694<br>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<br>N 274133.458<br>E 258677.221 |
| P.I. | STA. HR 1+178.772<br>N 274112.642<br>E 258709.001 |
| P.T. | STA. HR 1+216.758<br>N 274091.028<br>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<br>N 274084.532<br>E 258749.634 |
| P.I. | STA. HR 1+273.855<br>N 274058.544<br>E 258787.200 |
| P.T. | STA. HR 1+318.612<br>N 274046.916<br>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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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

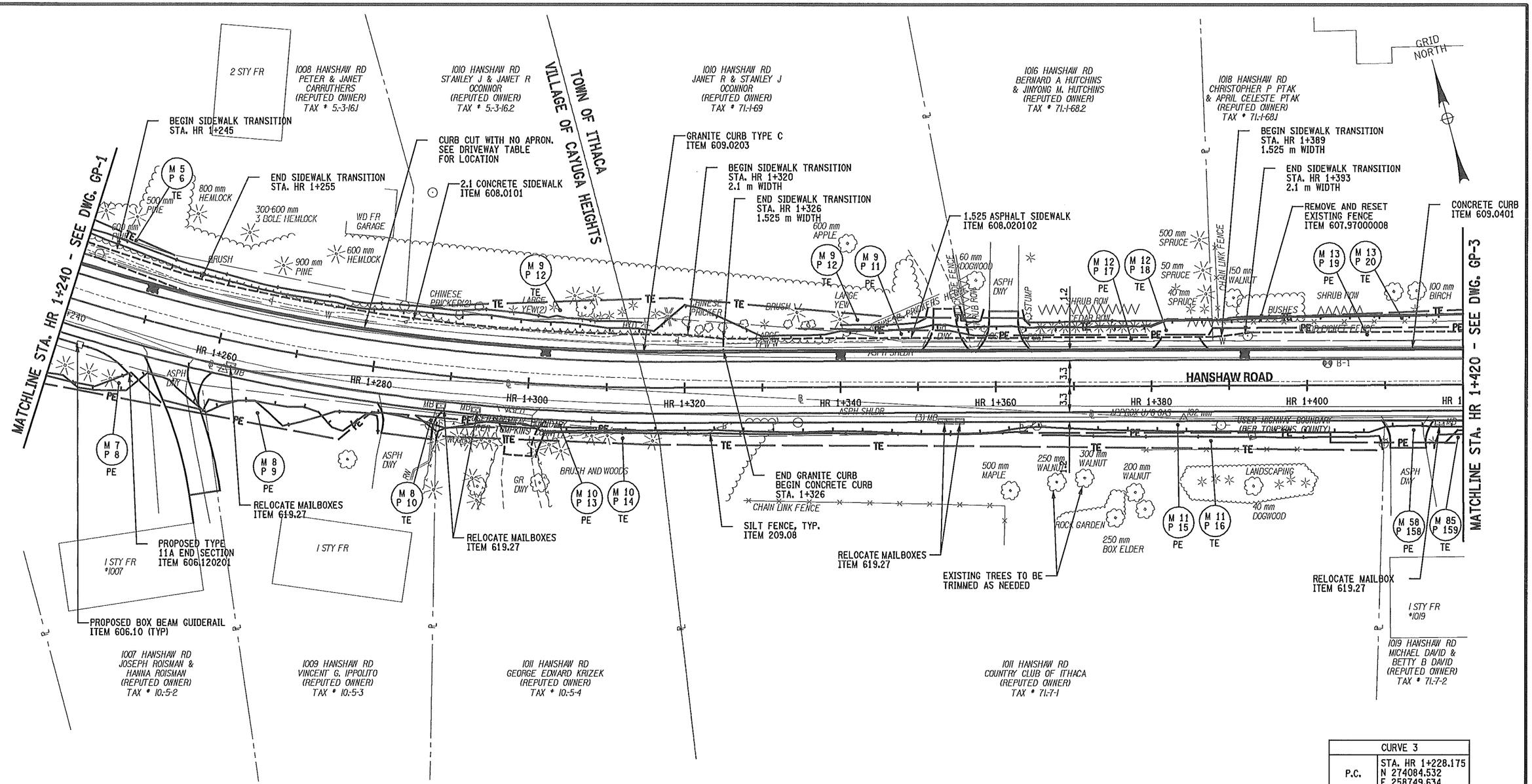
FISHERASSOCIATES

DRAWING NO. GP-1
SHEET NO. 44 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




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

| PREPARED BY:<br>ON: | ALTERED BY:<br>ON: |
|---|---|
| STATE OF NEW YORK<br>MARK RAYMOND BUTCHER<br>076249<br>LICENSED PROFESSIONAL ENGINEER<br>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

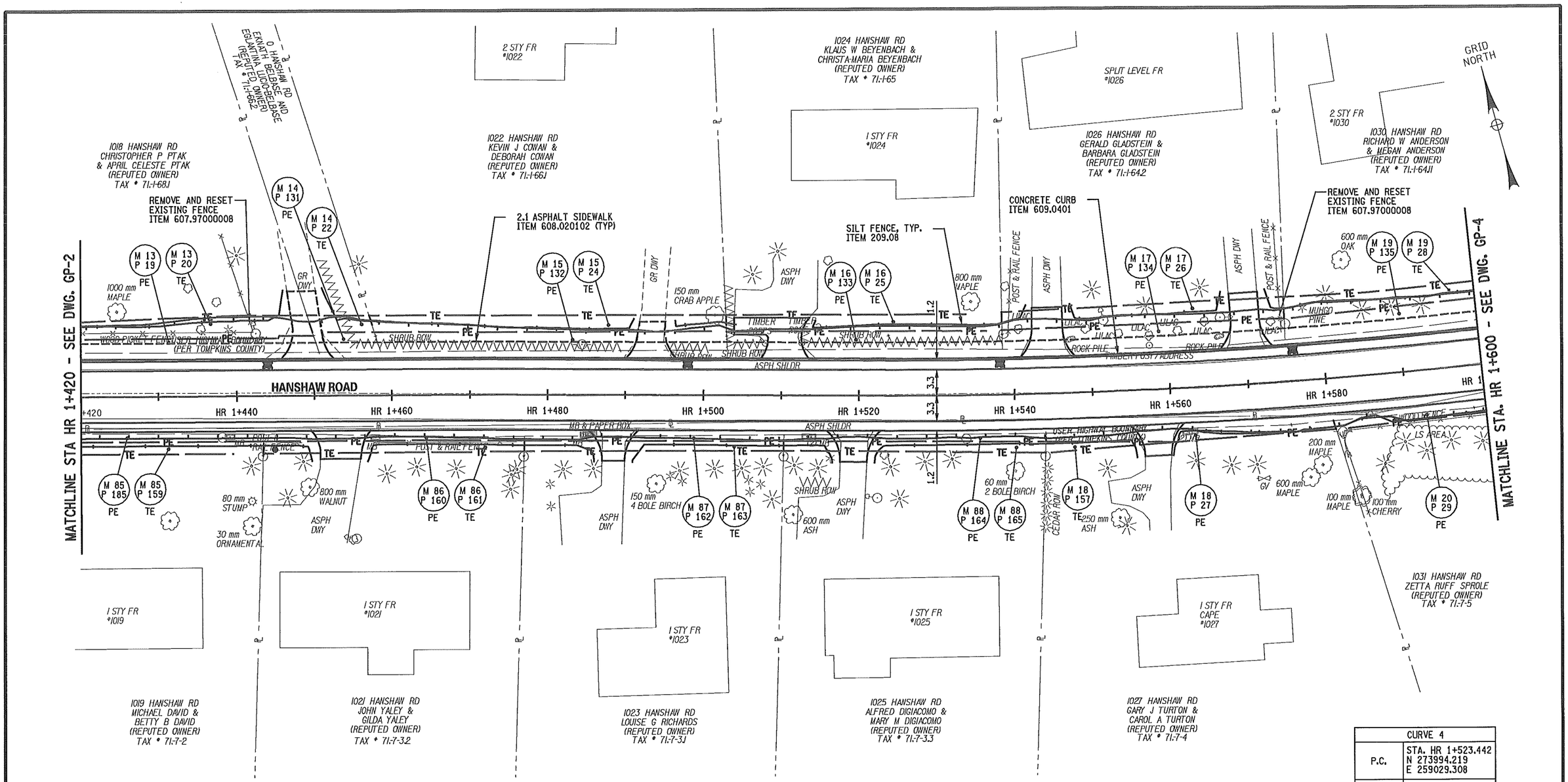
DRAWING NO. GP-2
SHEET NO. 45 OF 130

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




| CURVE 4 | |
|---|---|
| P.C. | STA. HR 1+523.442<br>N 273994.219<br>E 259029.308 |
| P.I. | STA. HR 1+572.822<br>N 273981.127<br>E 259076.921 |
| P.T. | STA. HR 1+622.040<br>N 273974.850<br>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
3-28-2013

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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

FISHERASSOCIATES

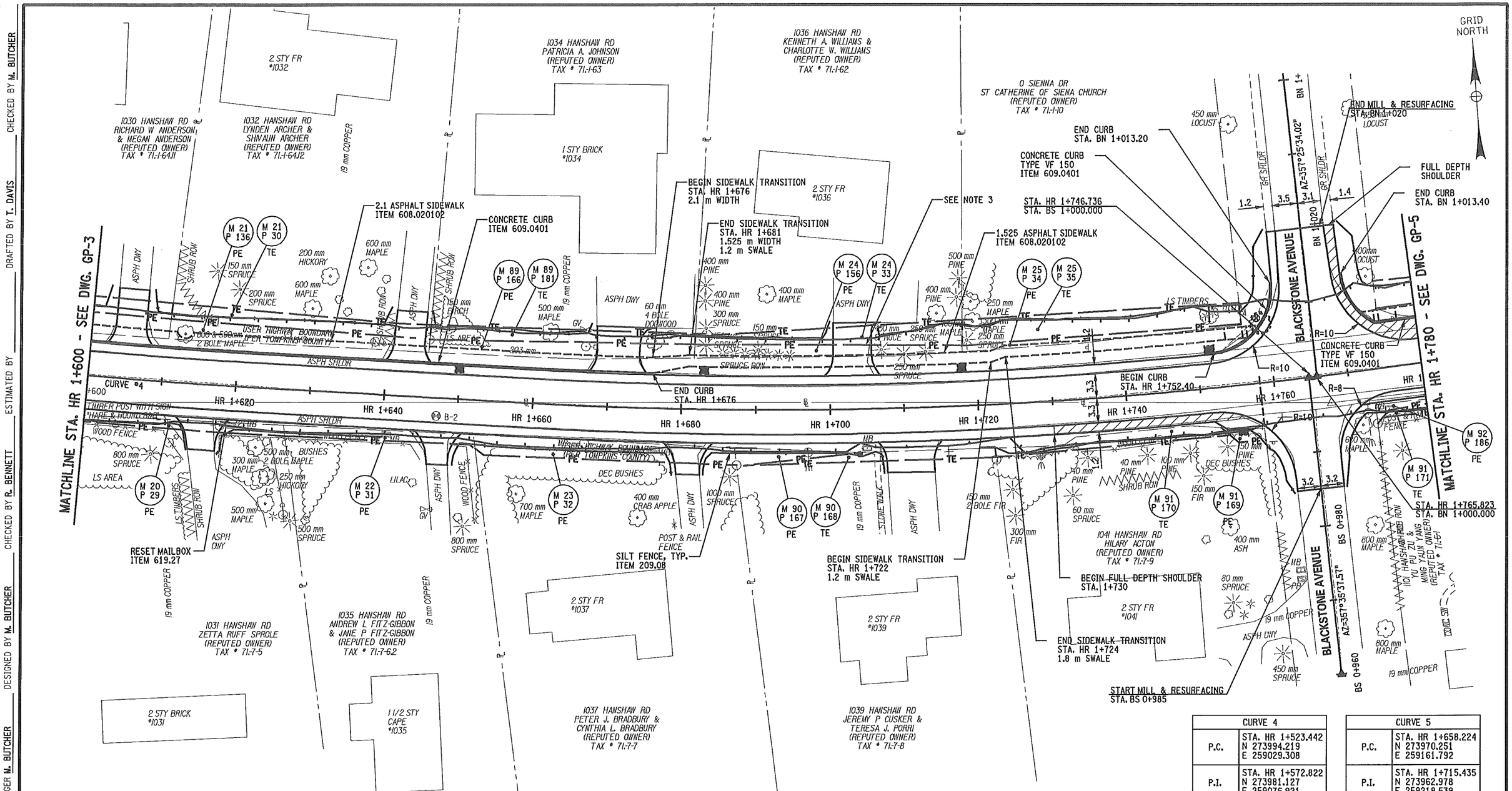
DRAWING NO. GP-3
SHEET NO. 46 OF 130

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




| CURVE 4 | |
|---|---|
| P.C. | STA. HR 1+523.442<br>N 273994.219<br>E 259029.308 |
| P.I. | STA. HR 1+572.822<br>N 273981.127<br>E 259076.921 |
| P.T. | STA. HR 1+622.040<br>N 273974.850<br>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<br>N 273970.251<br>E 259161.792 |
| P.I. | STA. HR 1+715.435<br>N 273962.978<br>E 259218.539 |
| P.T. | STA. HR 1+772.301<br>N 273966.561<br>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

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

GENERAL PLAN

FISHERASSOCIATES

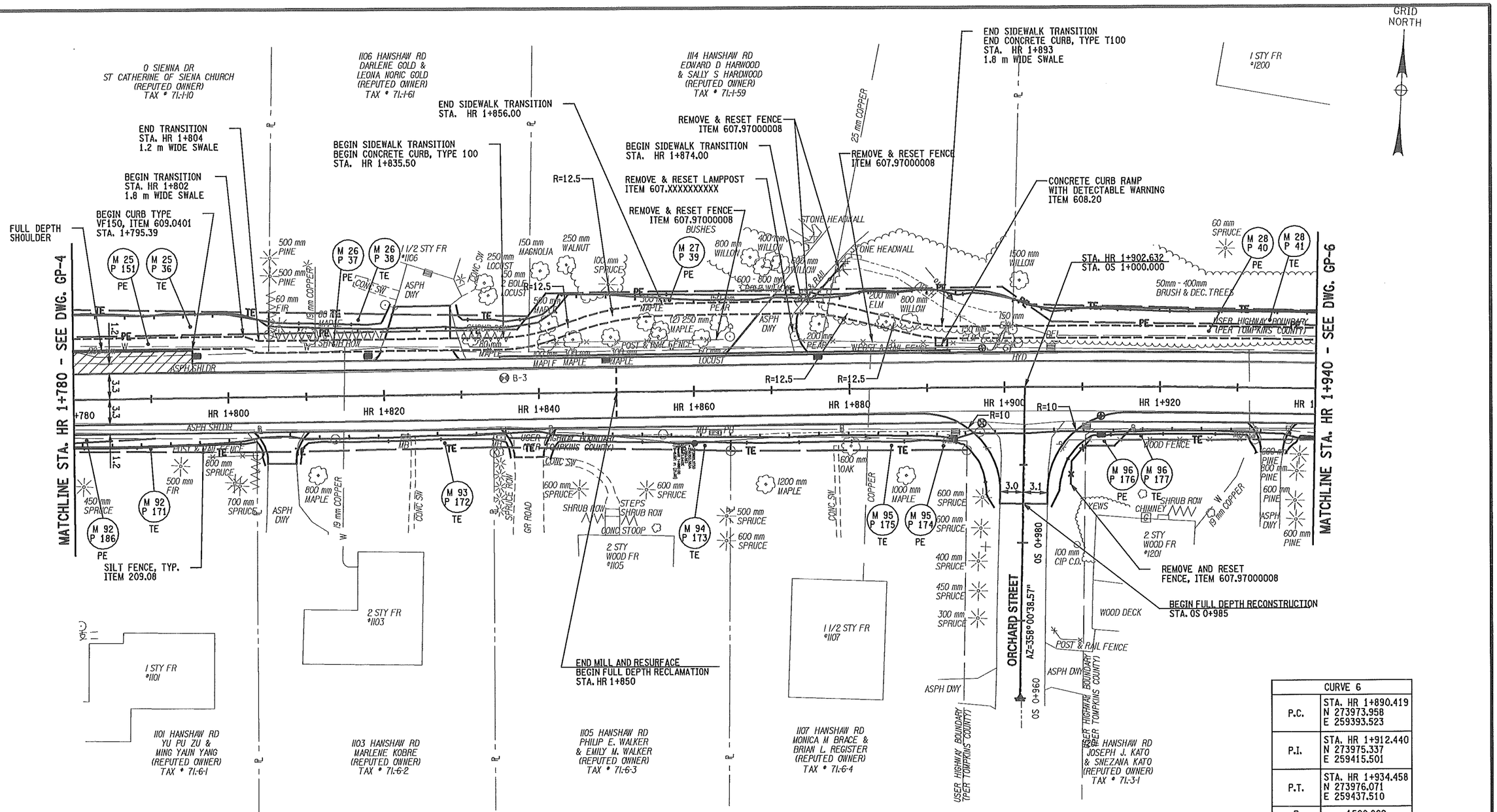
DRAWING NO. GP-4
SHEET NO. 47 OF 130

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 ESTIMATED BY CHECKED BY R. BENNETT DRAFTED BY T. DAVIS

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




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

| PREPARED BY:<br>ON: | ALTERED BY:<br>ON: |
|---|---|
| STATE OF NEW YORK<br>MARK RAYMOND BUTCHER<br>076249<br>LICENSED PROFESSIONAL ENGINEER<br>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.

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

FISHERASSOCIATES

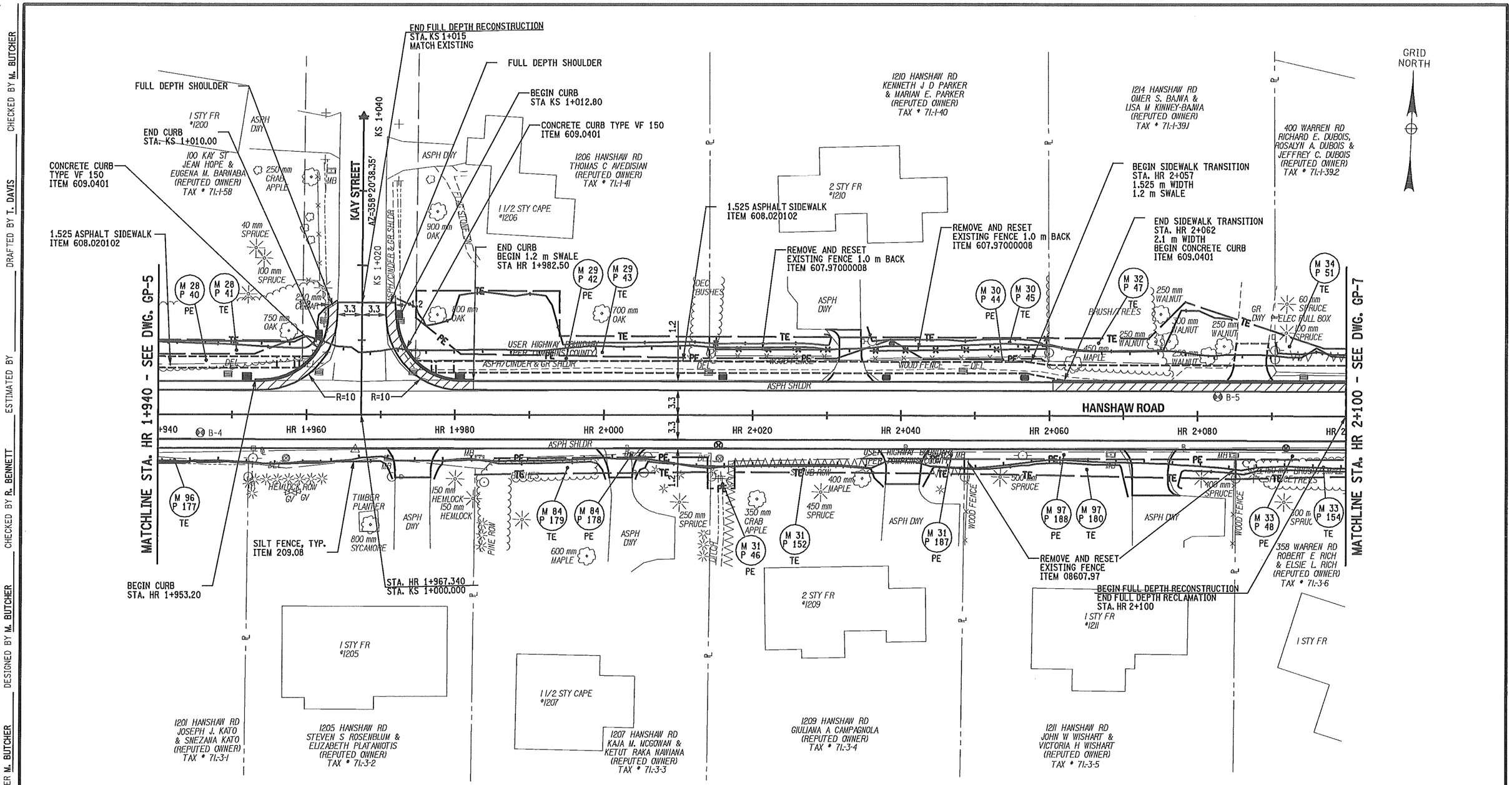
DRAWING NO. GP-5
SHEET NO. 48 OF 130

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




| 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.

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

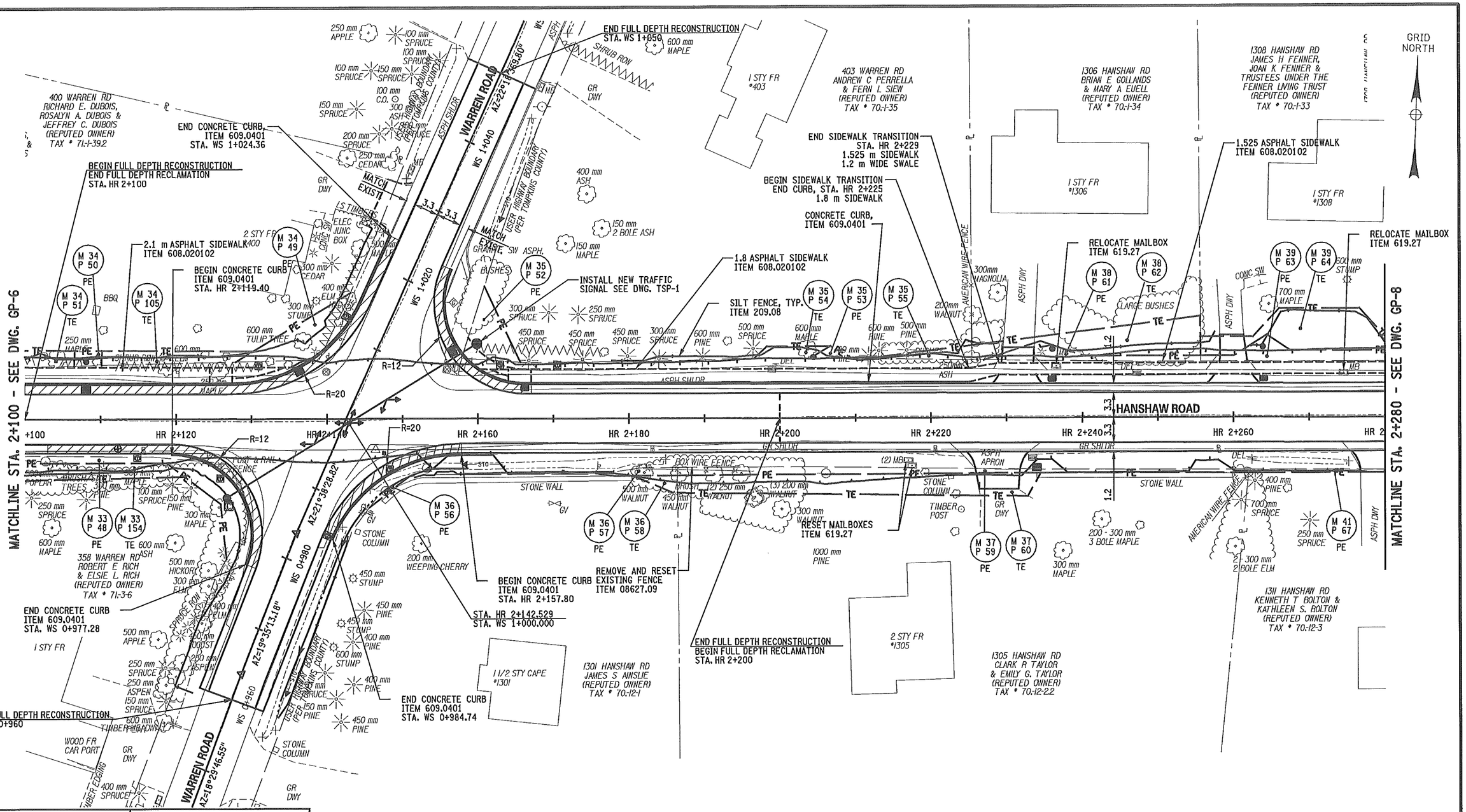
DRAWING NO. GP-6
SHEET NO. 49 OF 130

DOCUMENT NAME: $FILENAME$

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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
3-26-2013

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

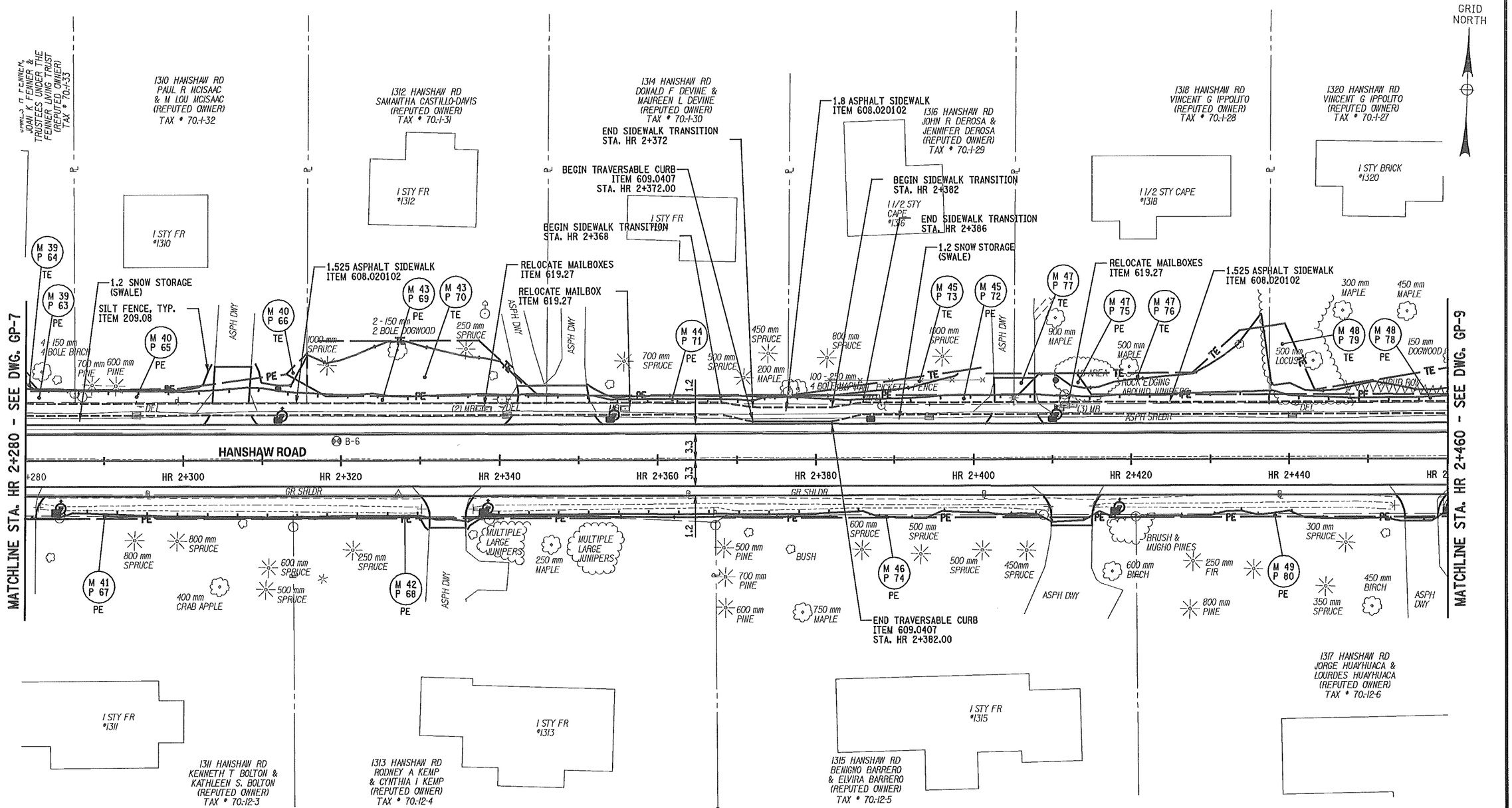
DRAWING NO. GP-7
SHEET NO. 50 OF 130

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

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.

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

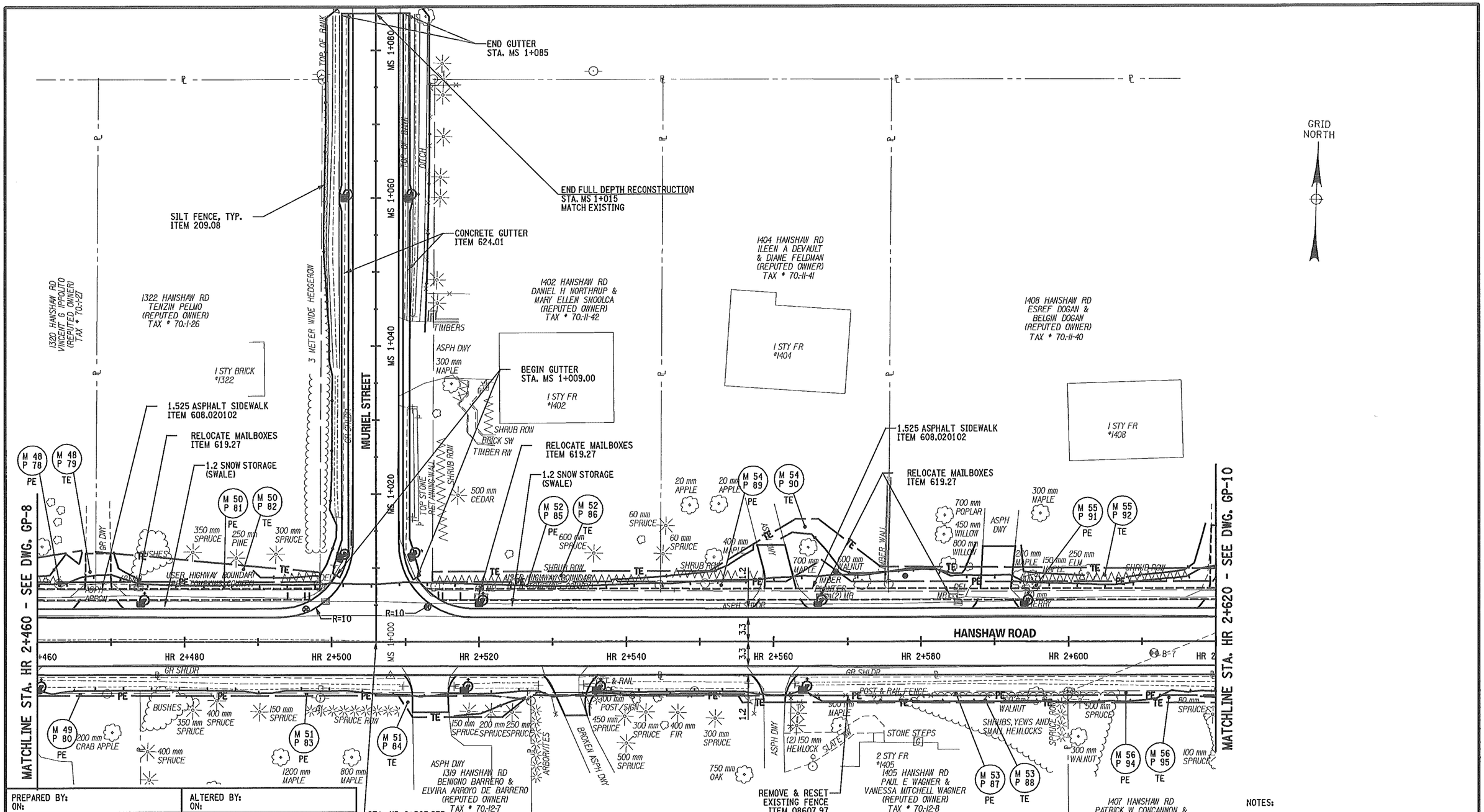
DRAWING NO. GP-8
SHEET NO. 51 OF 130

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




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

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

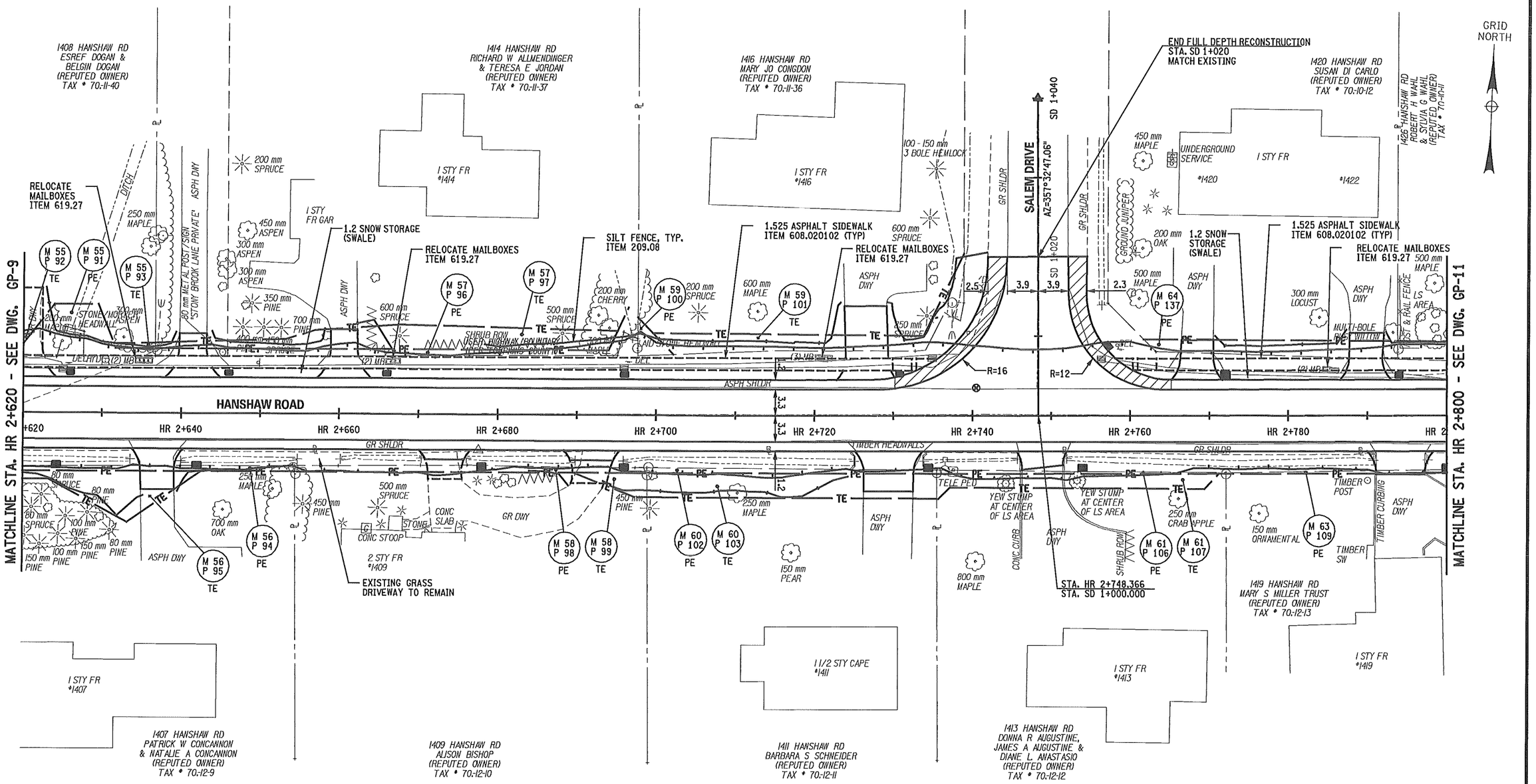
DRAWING NO. GP-9
SHEET NO. 52 OF 130

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 R. BENNETT DRAFTED BY T. DAVIS ESTIMATED BY 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.

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

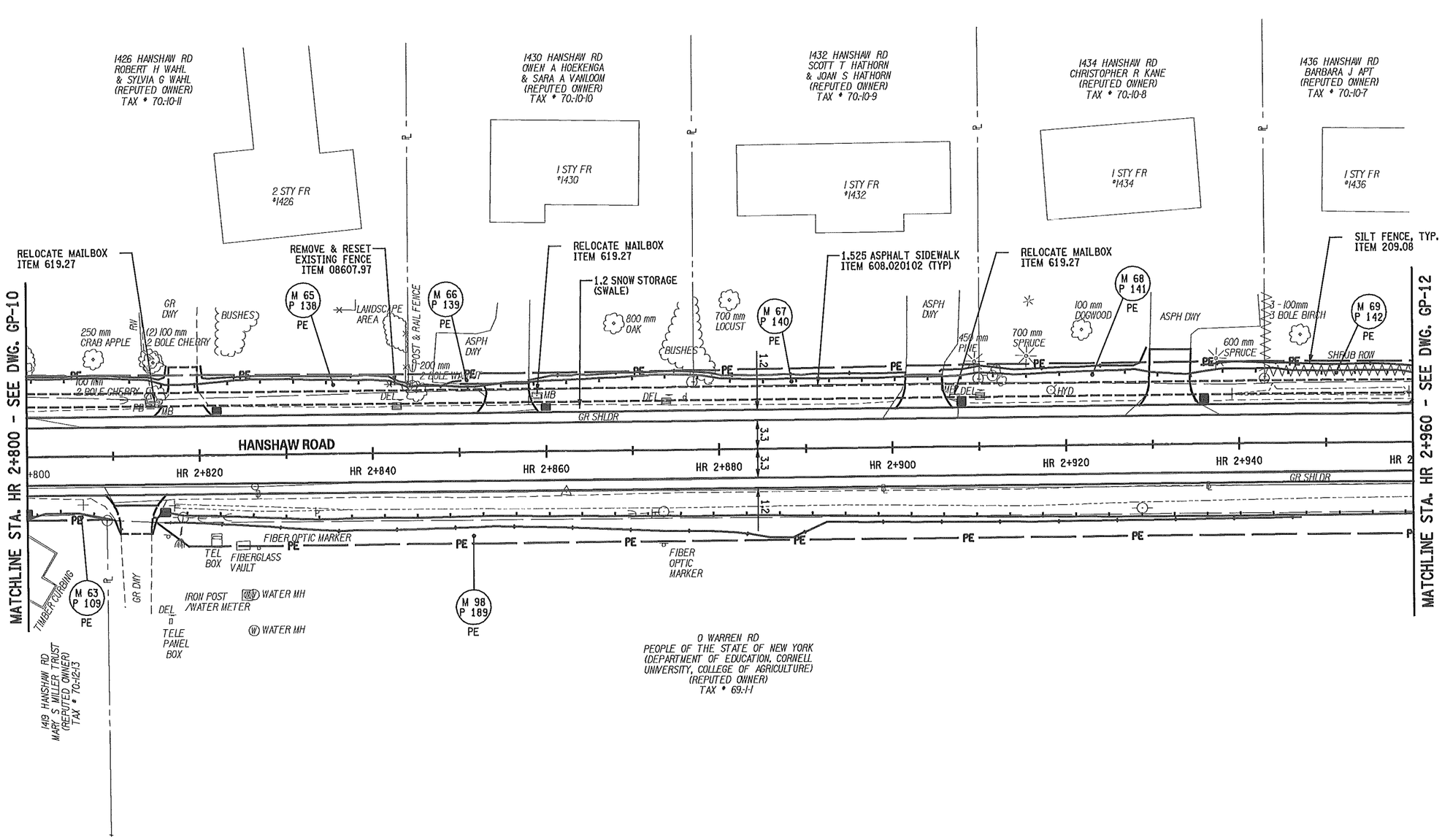
DRAWING NO. GP-10
SHEET NO. 53 OF 130

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: |
|---|---|
| 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.

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

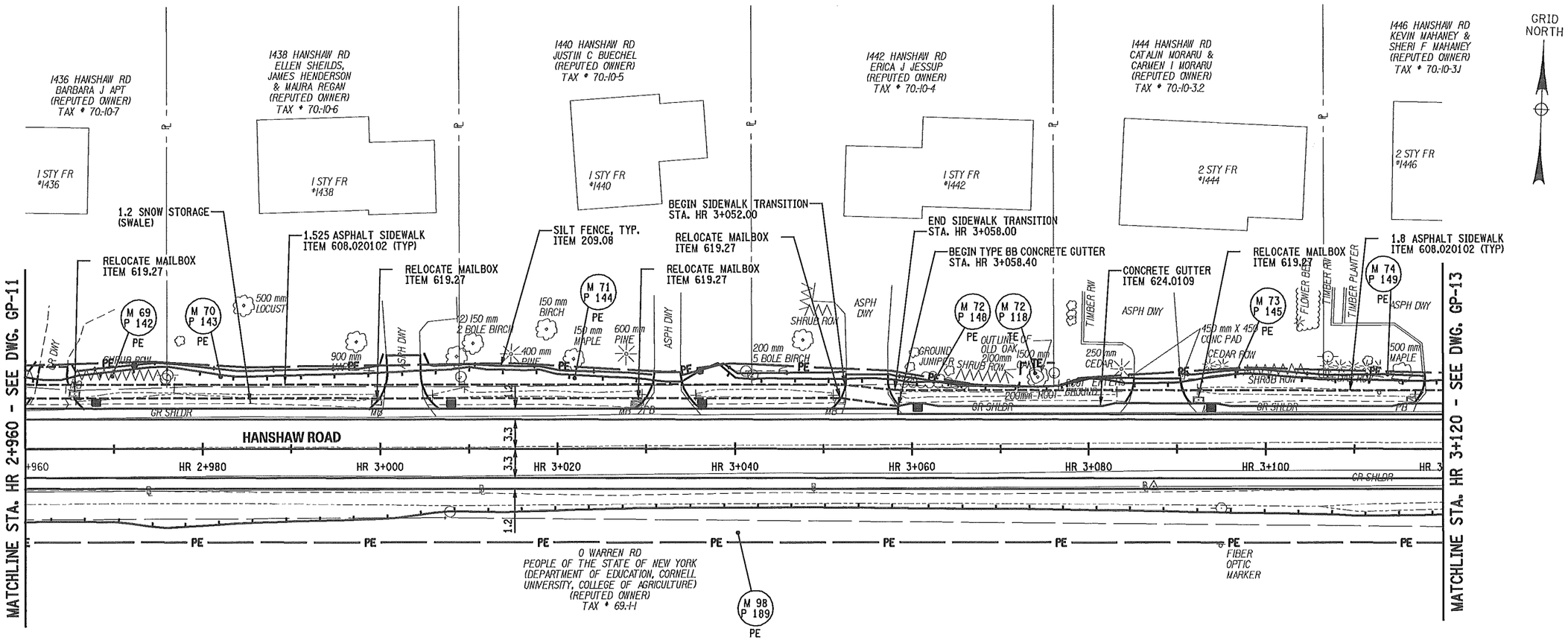
DRAWING NO. GP-11
SHEET NO. 54 OF 130

DOCUMENT NAME: $FILENAME$

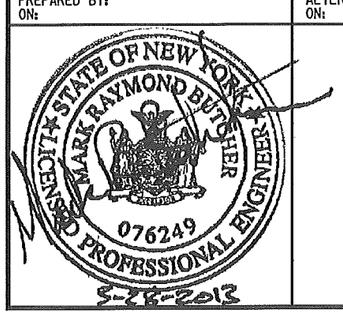
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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: |
|---|---|
| | |




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.

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

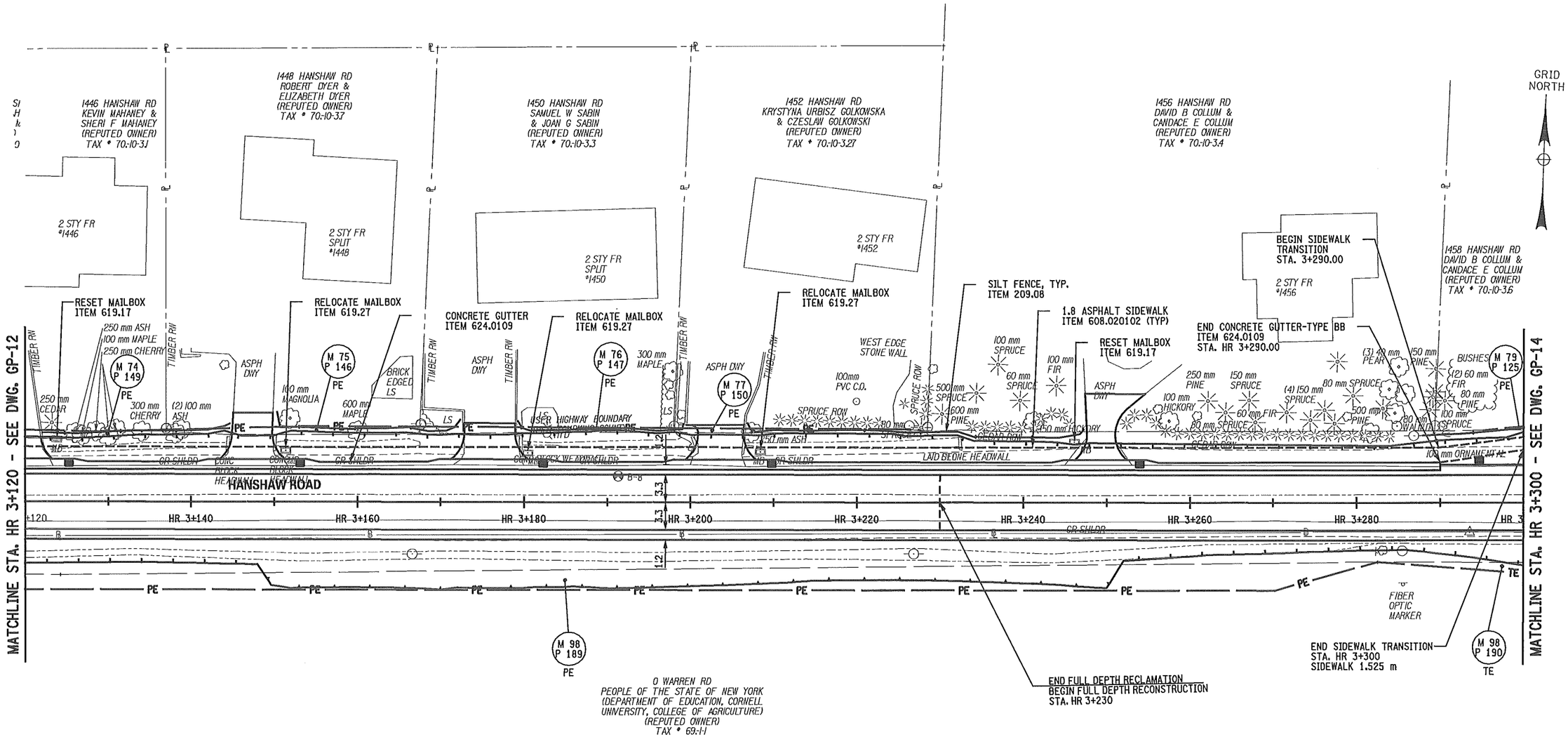
DRAWING NO. GP-12
SHEET NO. 55 OF 130

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:

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.

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

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

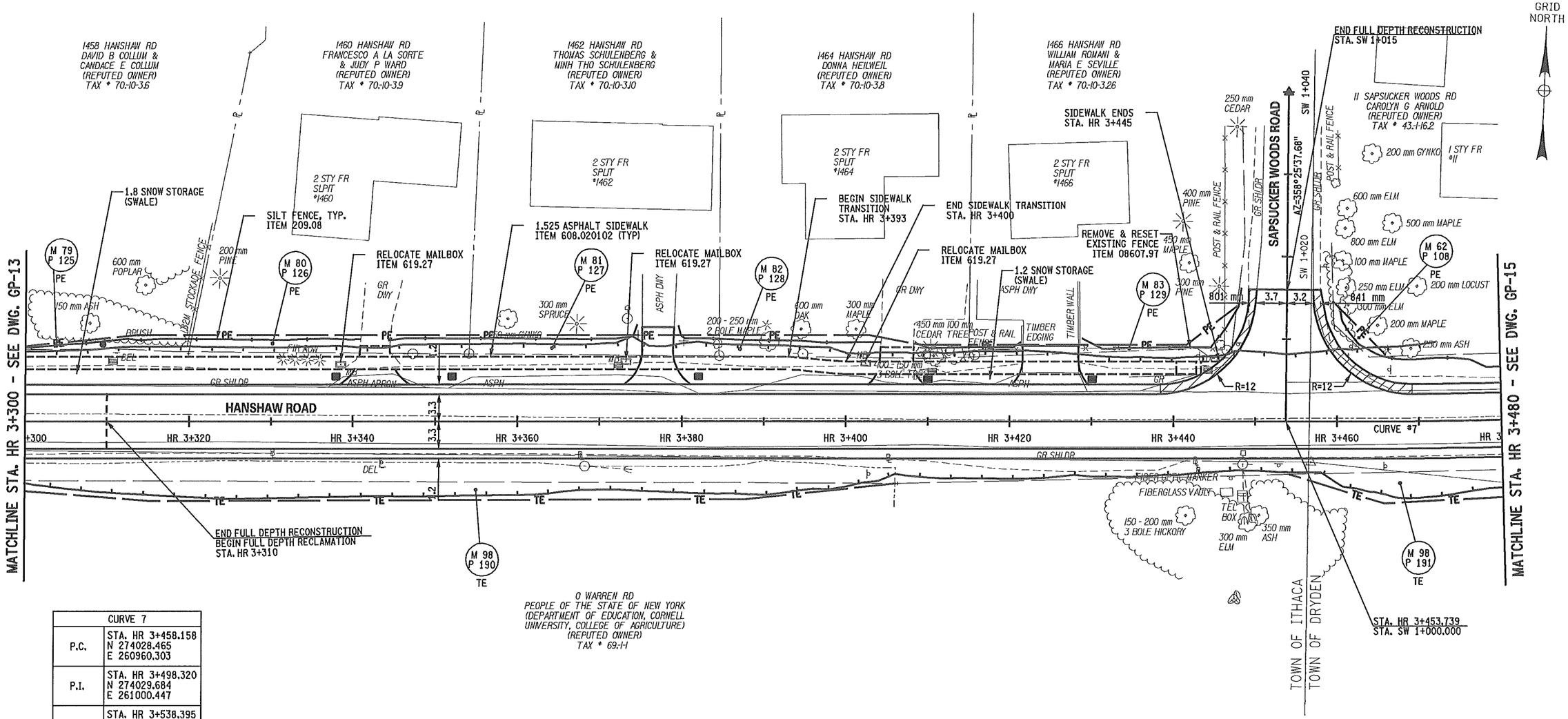
DRAWING NO. GP-13
SHEET NO. 56 OF 130

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




| CURVE 7 | |
|---|---|
| P.C. | STA. HR 3+458.158<br>N 274028.465<br>E 260960.303 |
| P.I. | STA. HR 3+498.320<br>N 274029.684<br>E 261000.447 |
| P.T. | STA. HR 3+538.395<br>N 274035.486<br>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

FISHERASSOCIATES

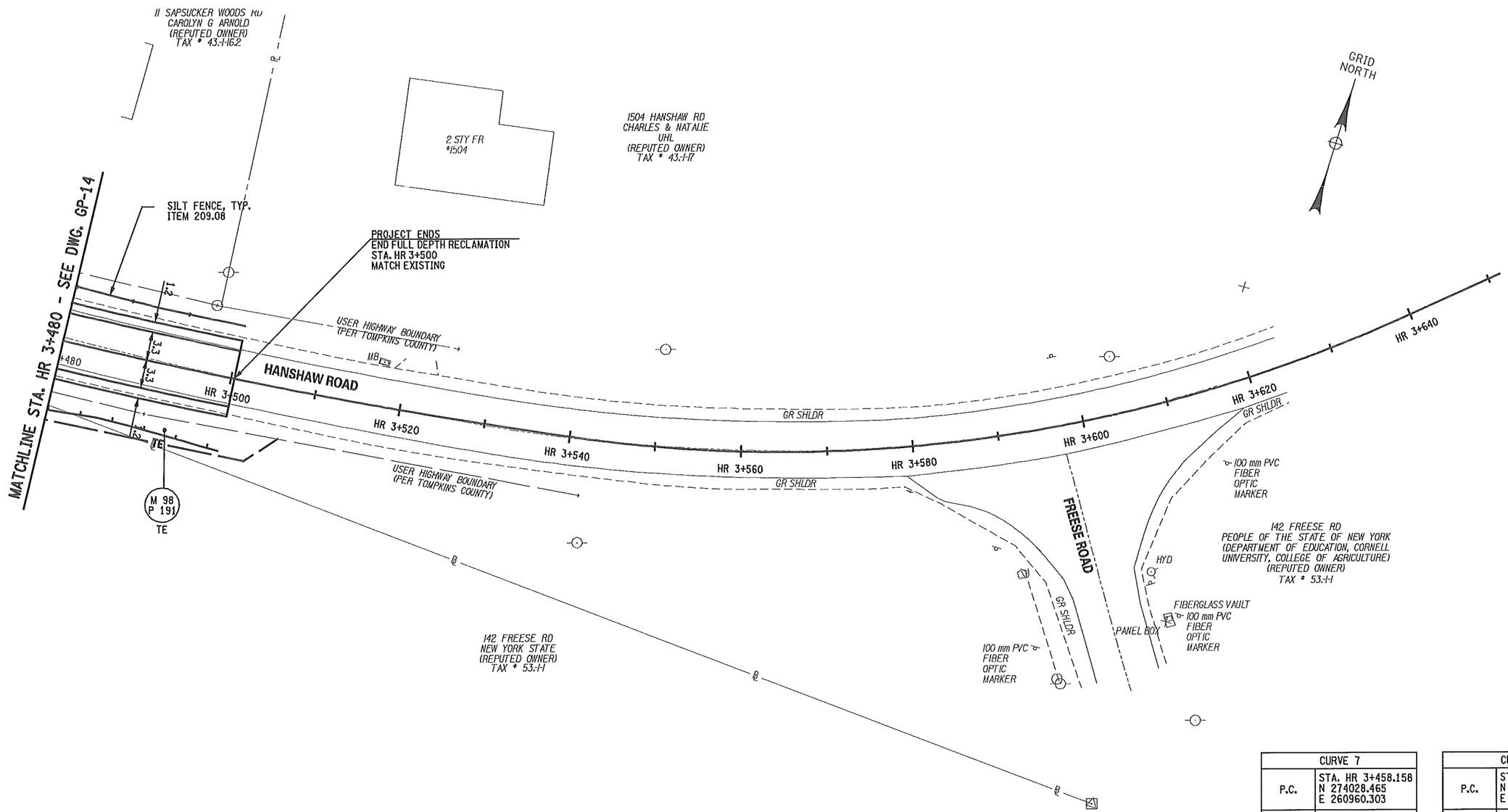
DRAWING NO. GP-14
SHEET NO. 57 OF 130

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




| CURVE 7 | |
|---|---|
| P.C. | STA. HR 3+458.158<br>N 274028.465<br>E 260960.303 |
| P.I. | STA. HR 3+498.320<br>N 274029.684<br>E 261000.447 |
| P.T. | STA. HR 3+538.395<br>N 274035.486<br>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<br>N 274035.486<br>E 261040.188 |
| P.I. | STA. HR 3+589.829<br>N 274042.917<br>E 261091.083 |
| P.T. | STA. HR 3+638.446<br>N 274076.704<br>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:<br>ON: | ALTERED BY:<br>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

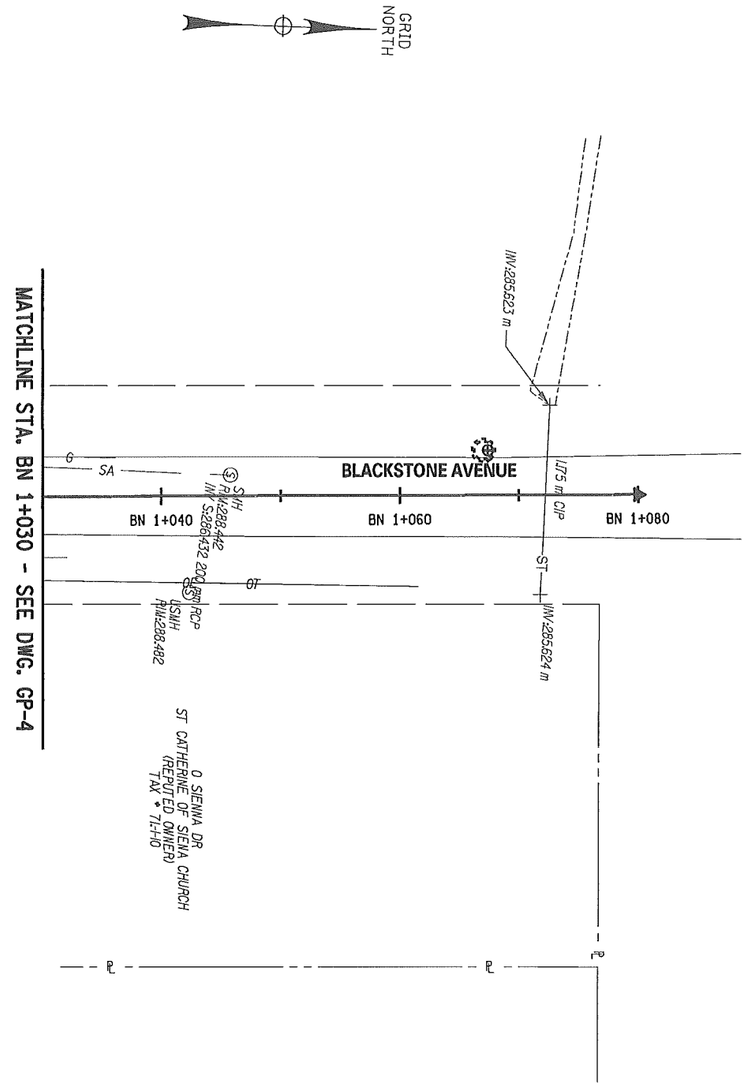
DRAWING NO. GP-15
SHEET NO. 58 OF 130

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. GP-4

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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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

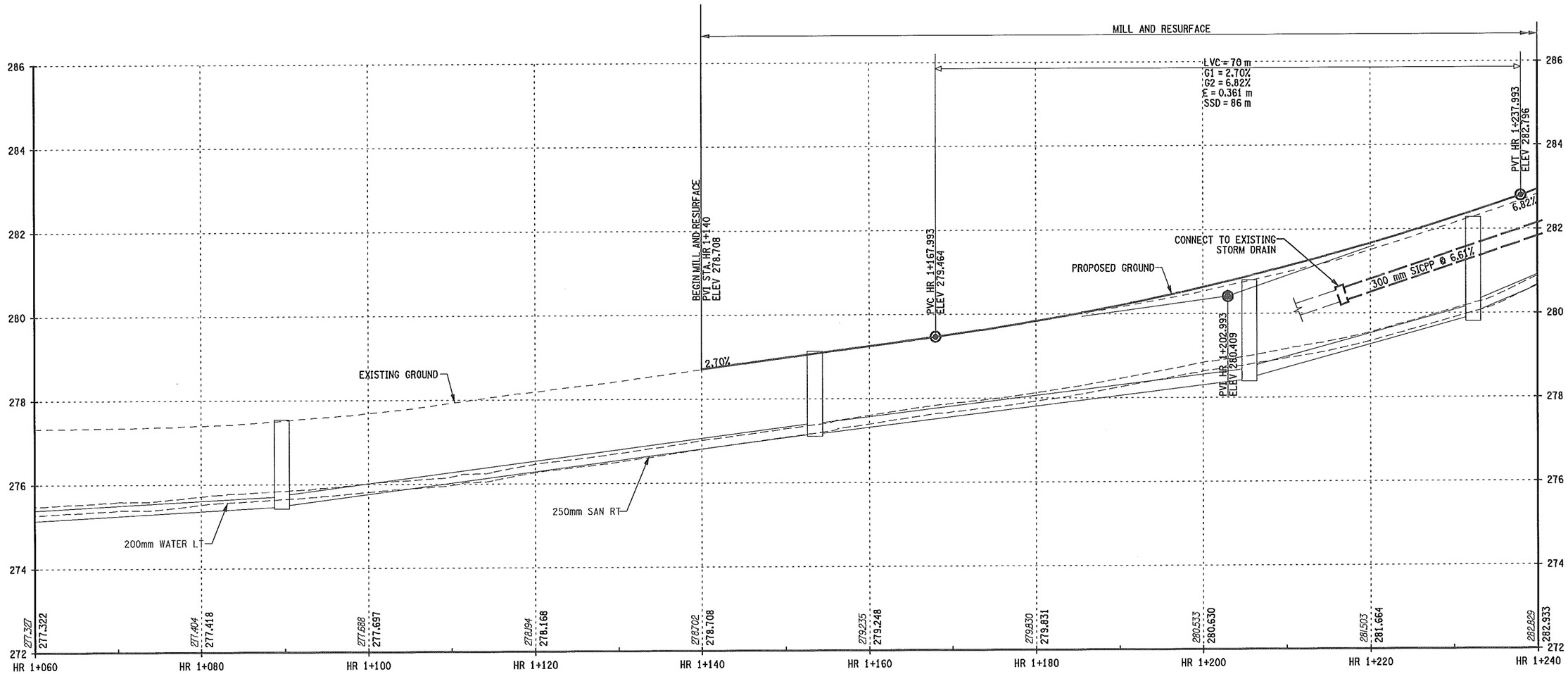
DRAWING NO. GP-16
SHEET NO. 59 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

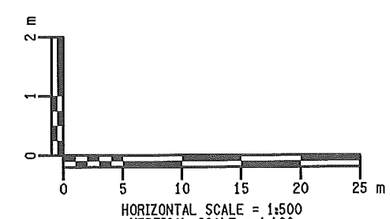
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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




## 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+060 TO HR 1+240
PROFILE

FISHERABBODIATES

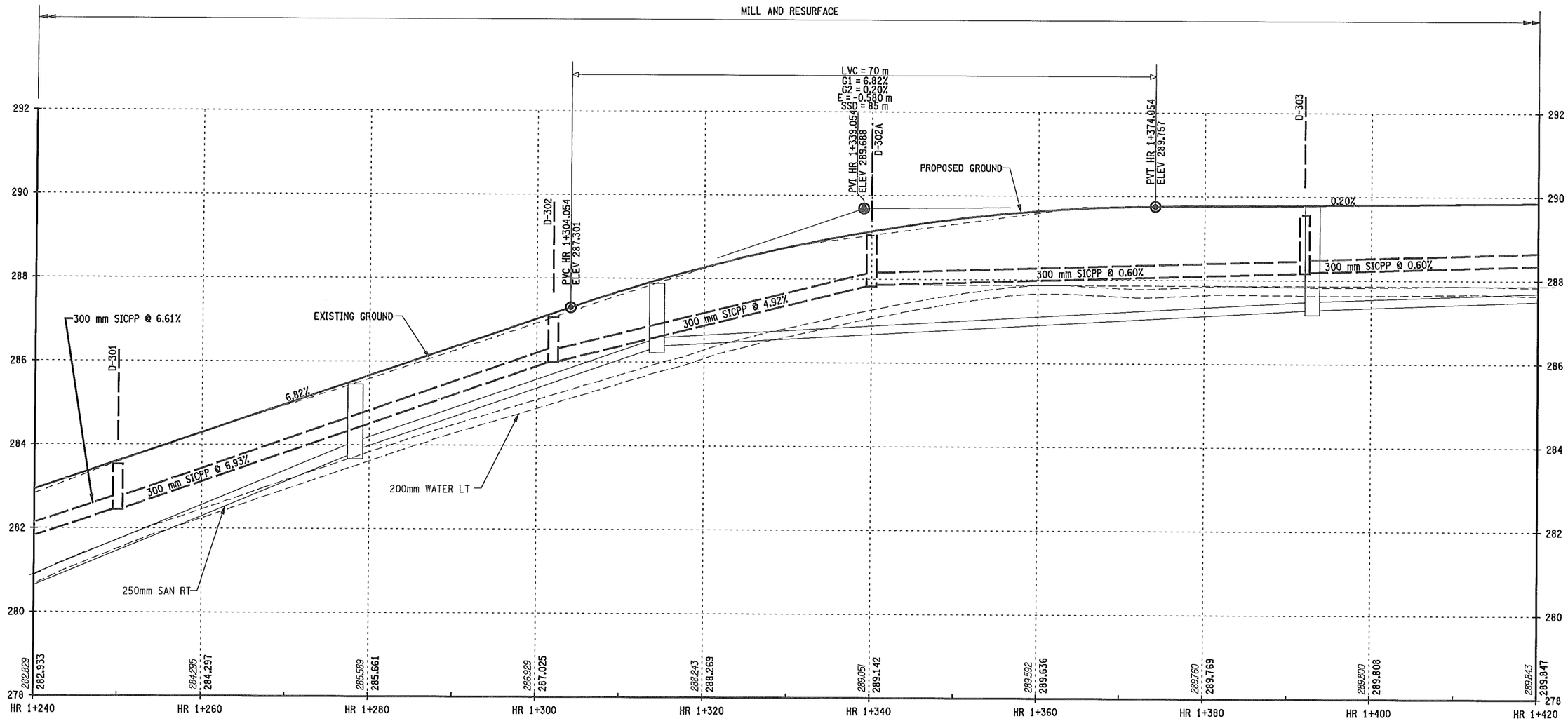
DRAWING NO. PR-1
SHEET NO. 60 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

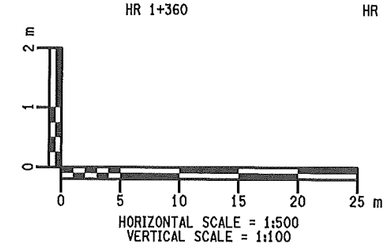
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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 | |

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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

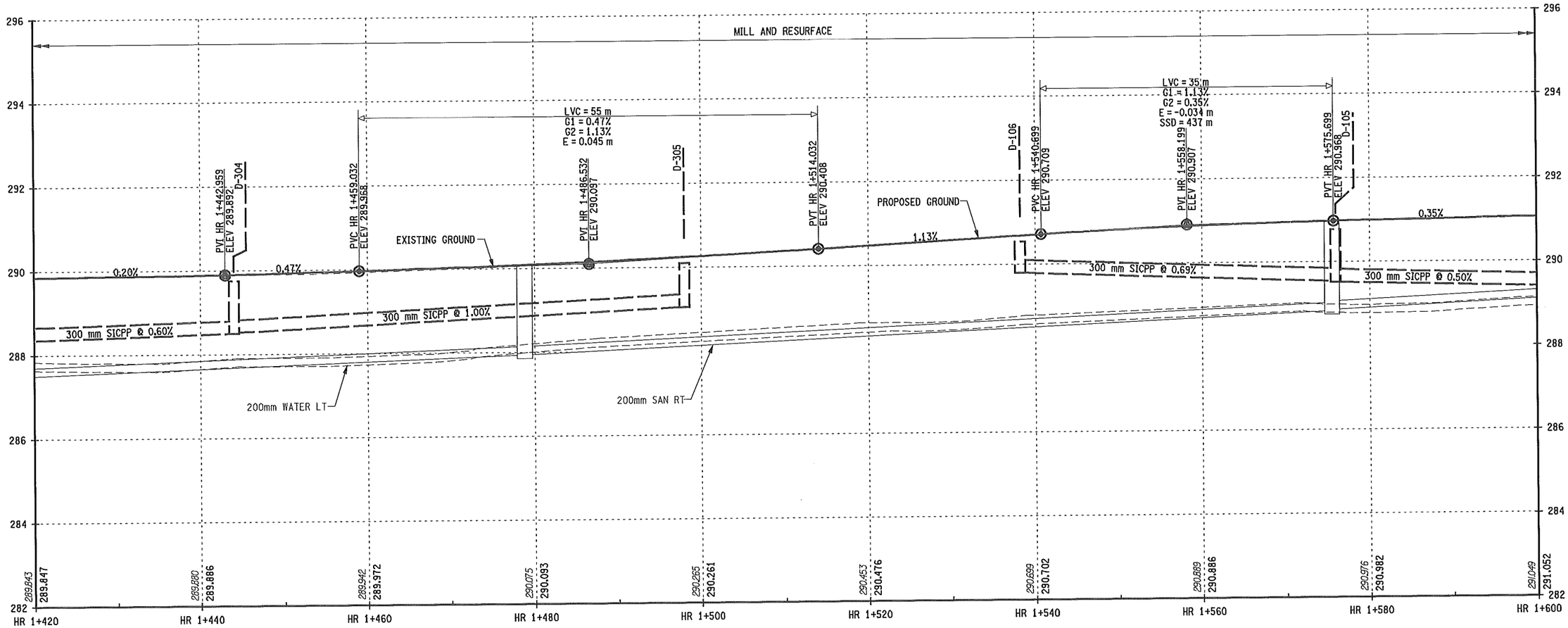
DRAWING NO. PR-2
SHEET NO. 61 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

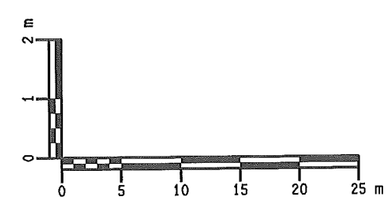
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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 1+420 TO HR 1+600
PROFILE

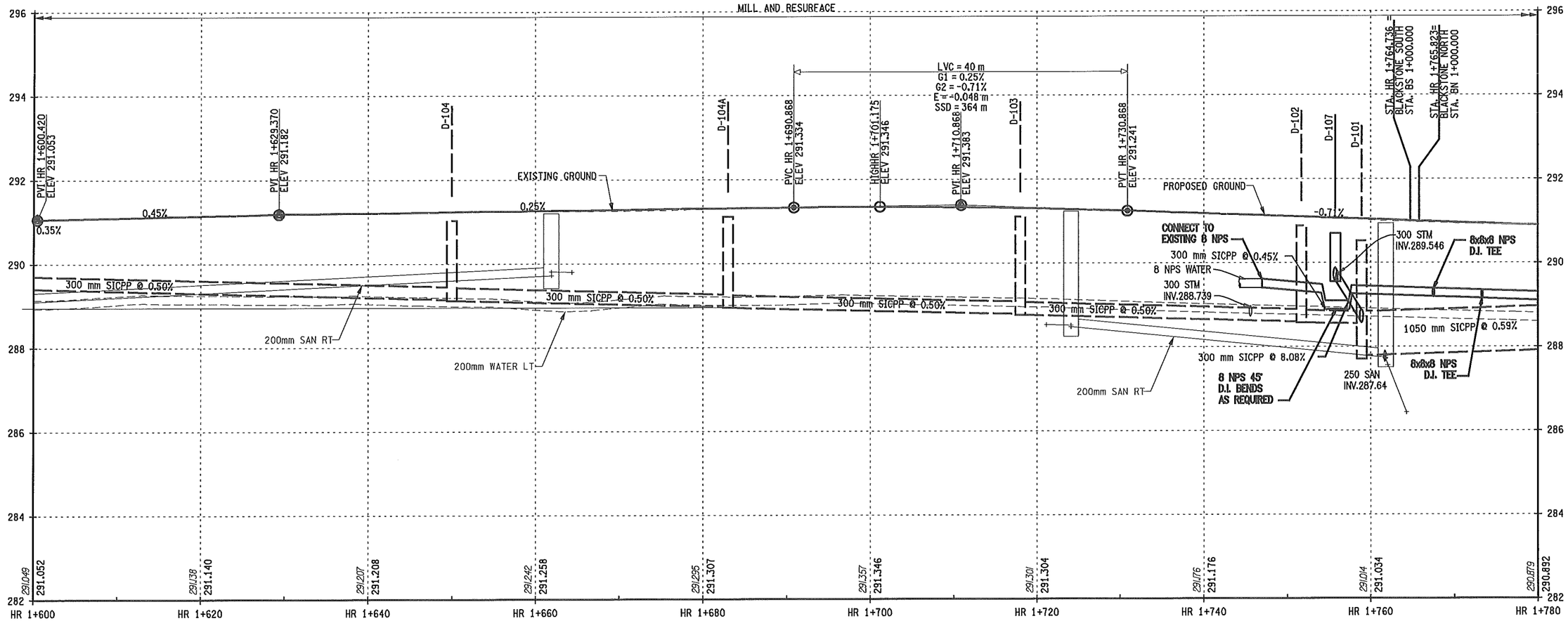
FISHER ASSOCIATES

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

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

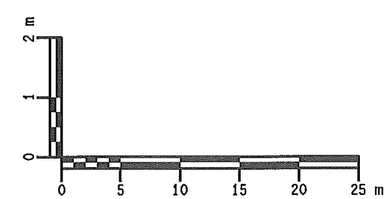
DESIGN SUPERVISOR D. JUDSON JOB MANAGER M. BUTCHER DESIGNED BY M. BUTCHER CHECKED BY R. BENNETT ESTIMATED BY DRAFTED BY T. DAVIS CHECKED BY M. BUTCHER

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
5-16-2013

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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

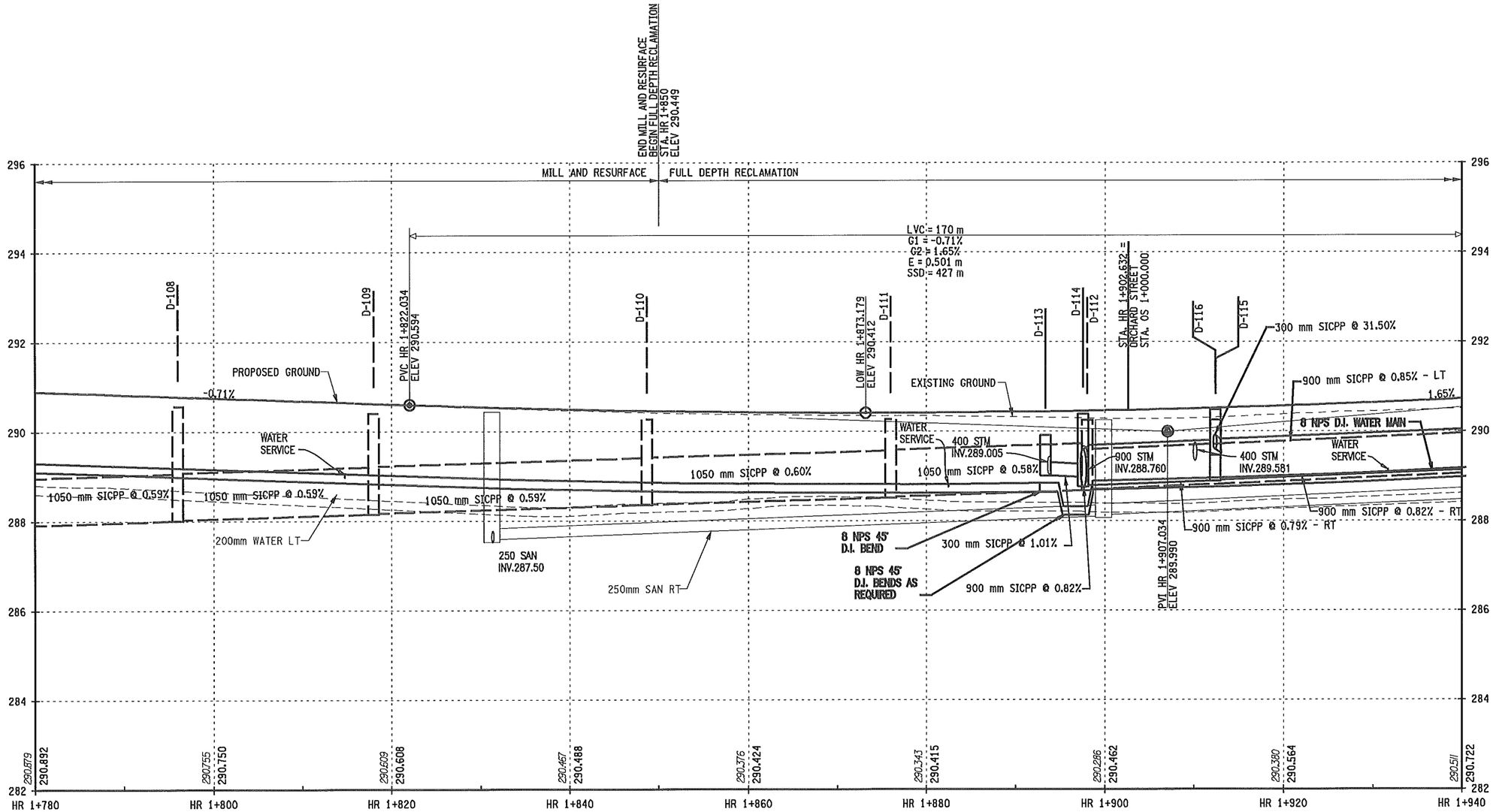
DRAWING NO. PR-4
SHEET NO. 63 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

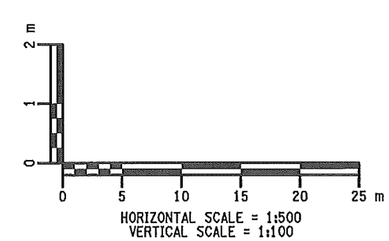
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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




| 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+780 TO HR 1+940
PROFILE

FISHERASSOCIATES

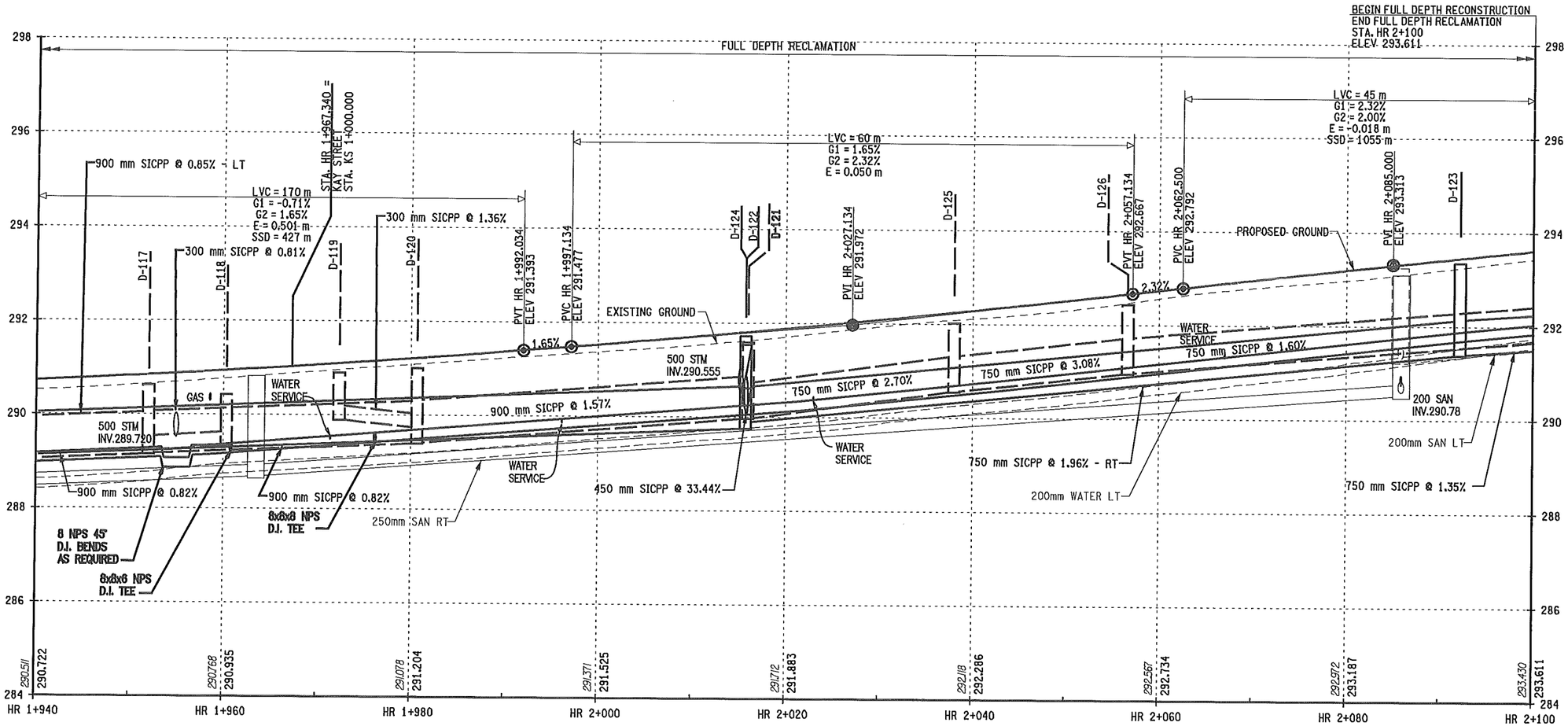
DRAWING NO. PR-5
SHEET NO. 64 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

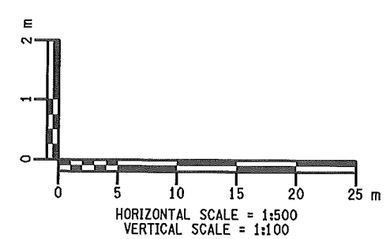
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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

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




## HANSHAW ROAD
NORMAL CROWN




| 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

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+940 TO HR 2+100
PROFILE

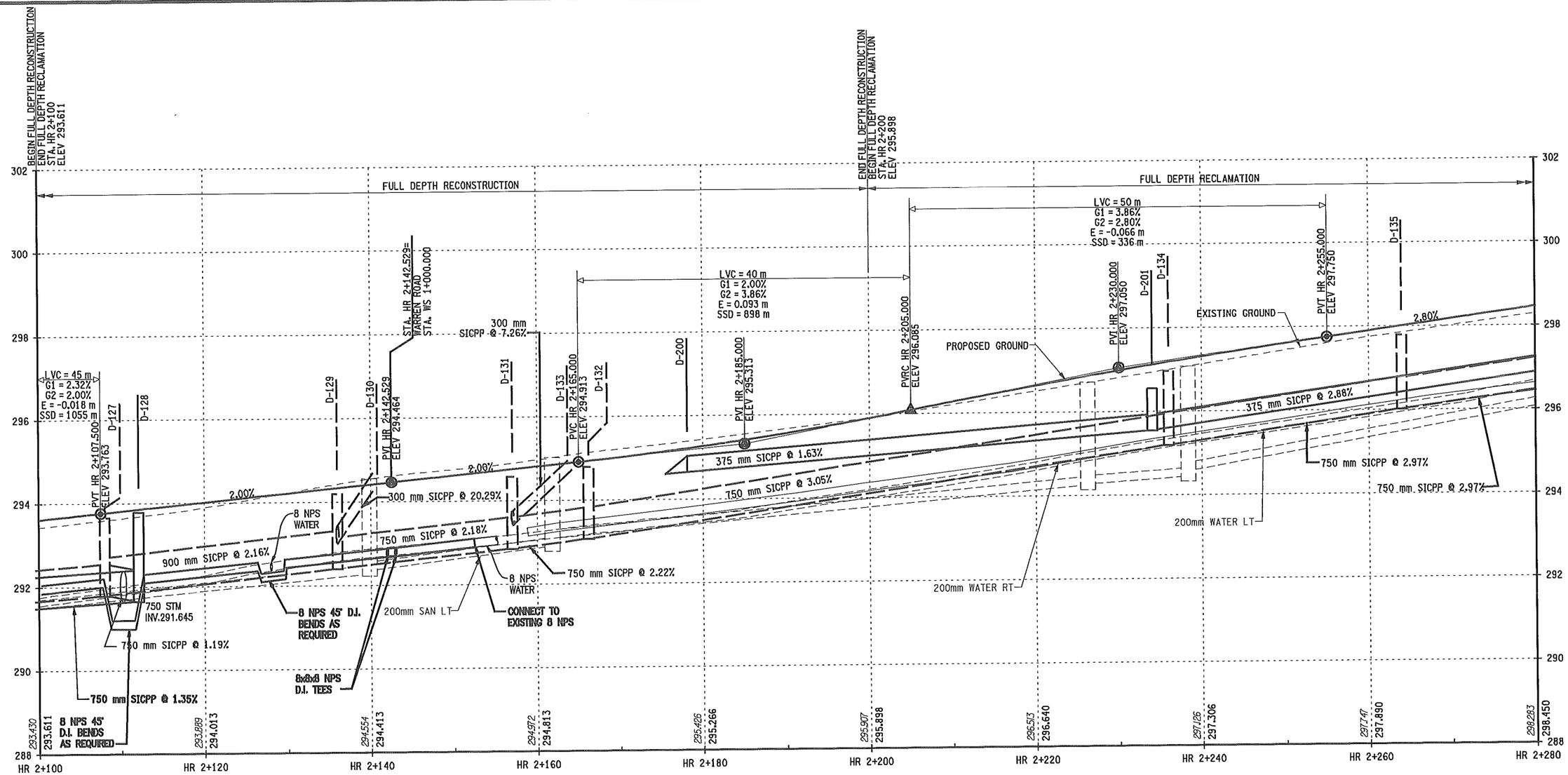
FISHER ASSOCIATES

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

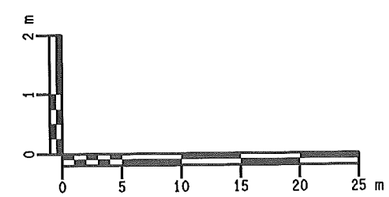
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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 = DGN8SPEC
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+100 TO HR 2+280
PROFILE

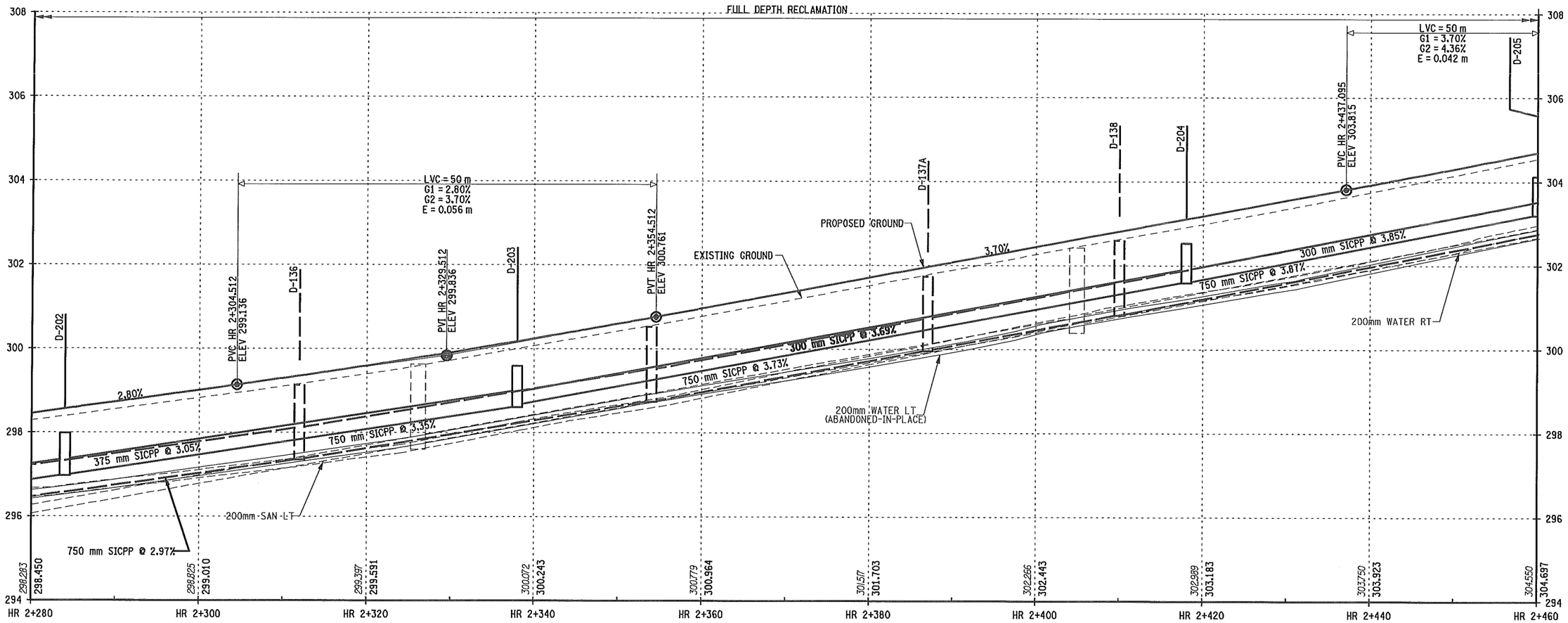
FISHERASSOCIATES

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

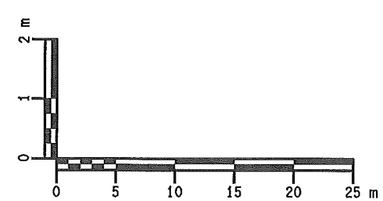
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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+280 TO HR 2+460
PROFILE

FISHER ASSOCIATES

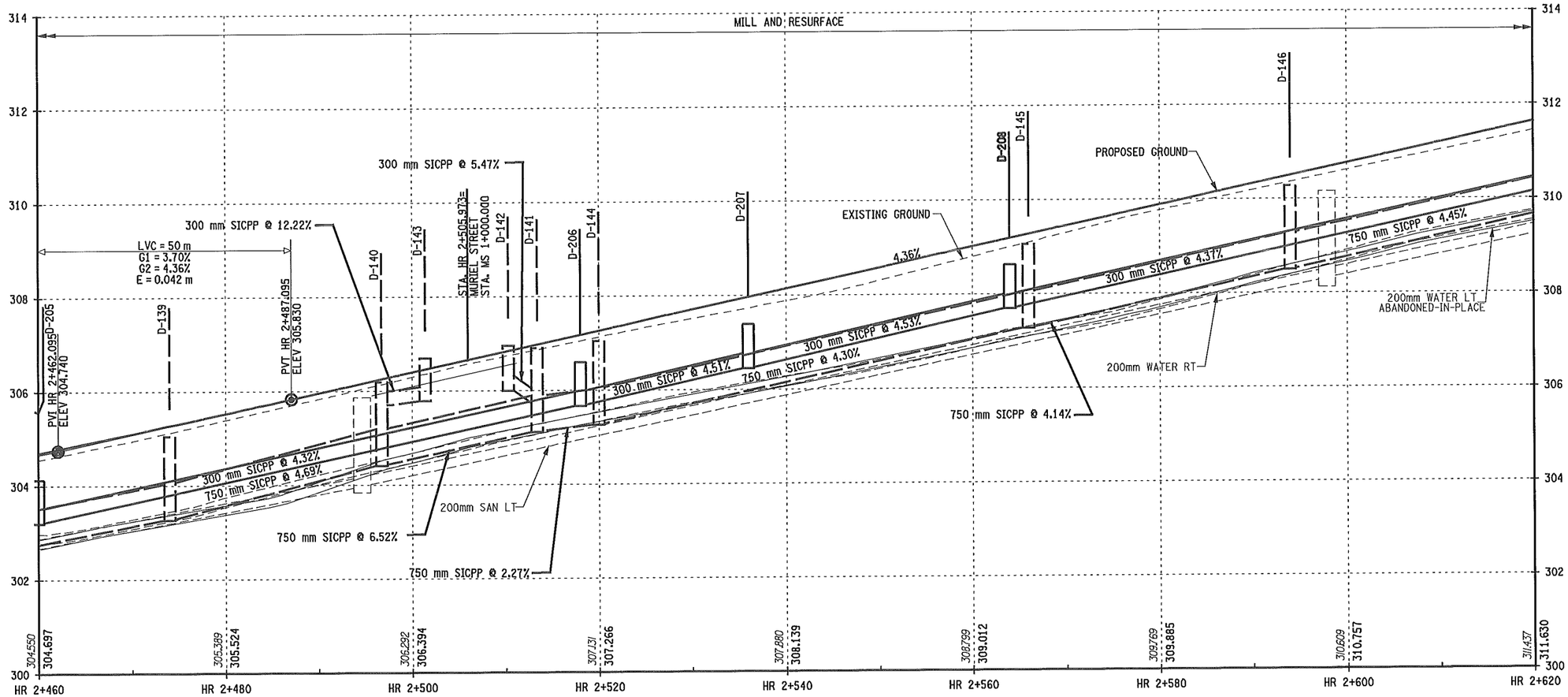
DRAWING NO. PR-8
SHEET NO. 67 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

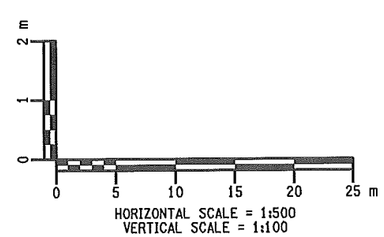
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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




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

HR 2+460 TO HR 2+620
PROFILE

FISHERASSOCIATES

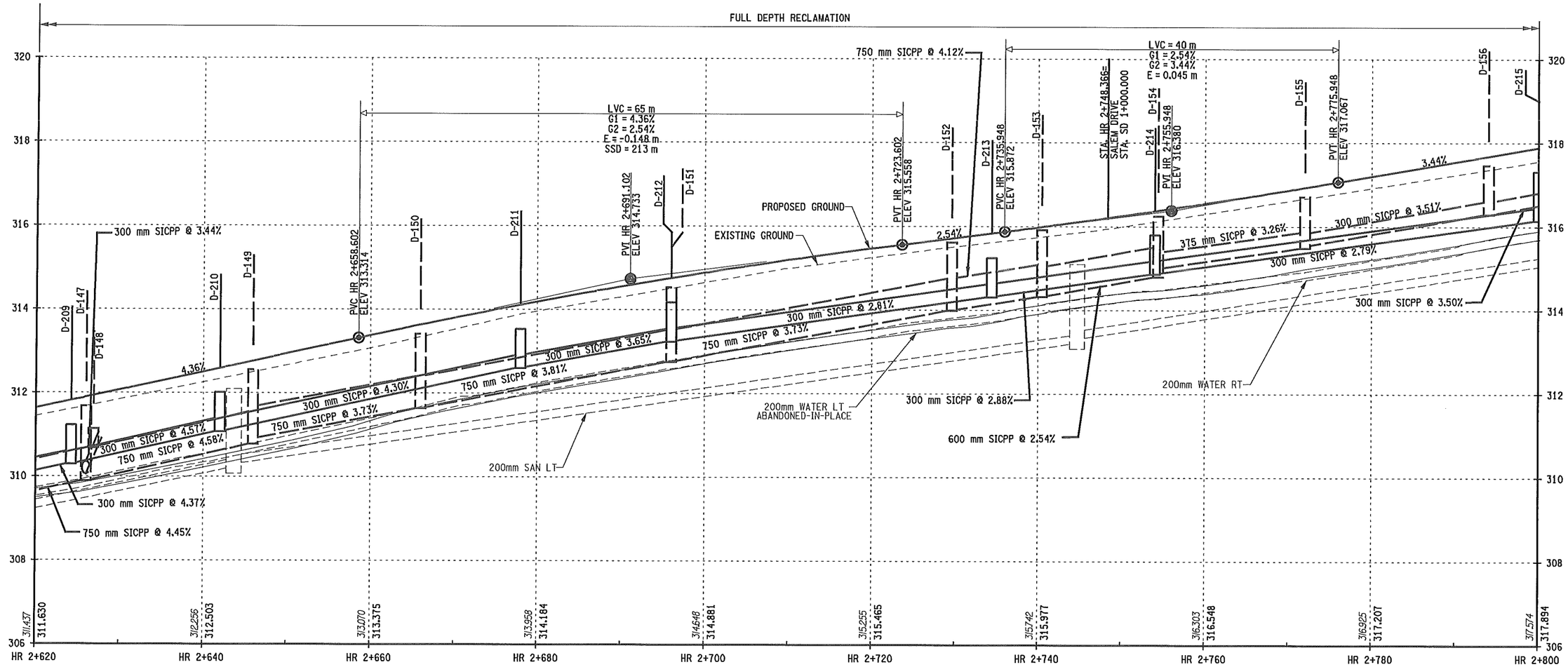
DRAWING NO. PR-9
SHEET NO. 68 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

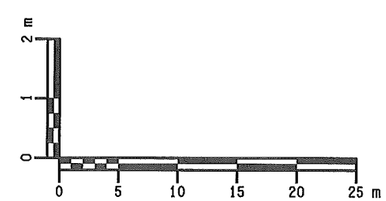
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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

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

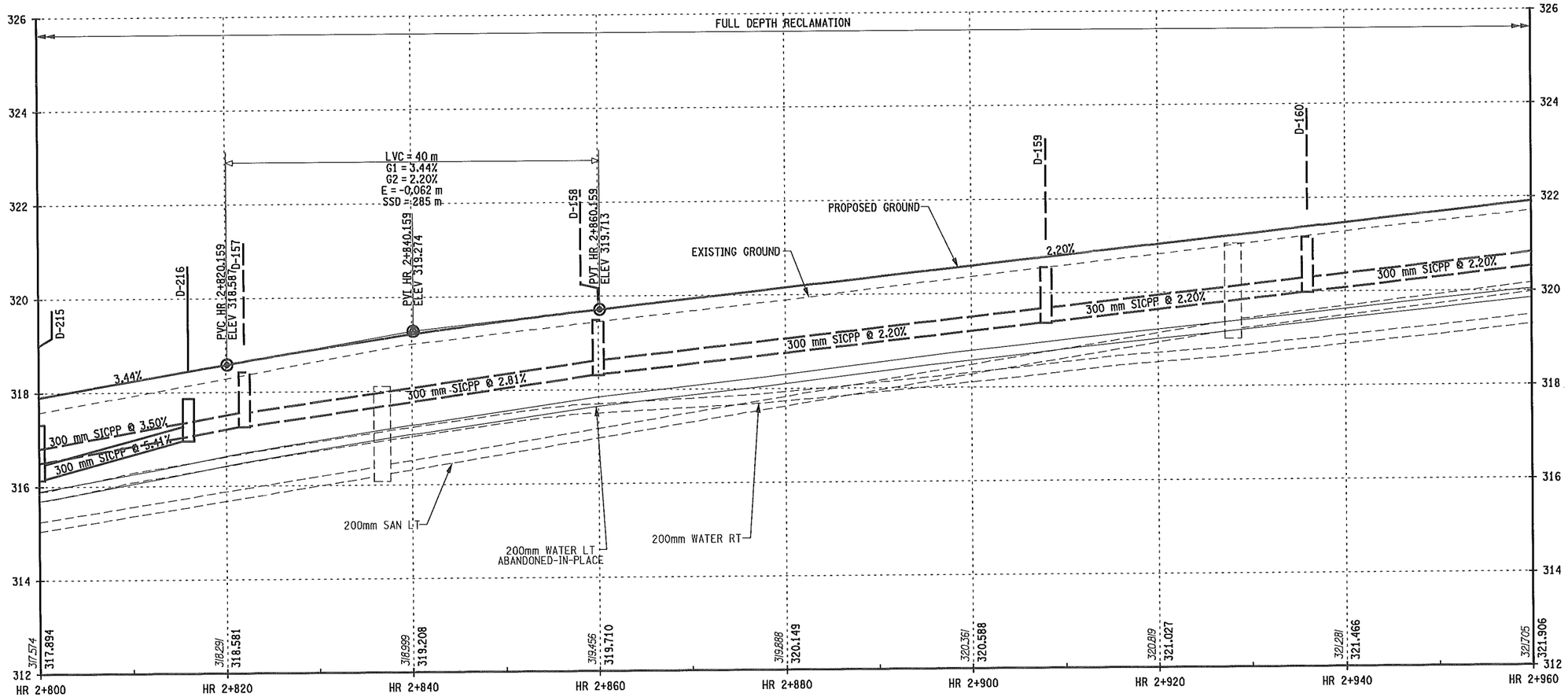
DRAWING NO. PR-10
SHEET NO. 69 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

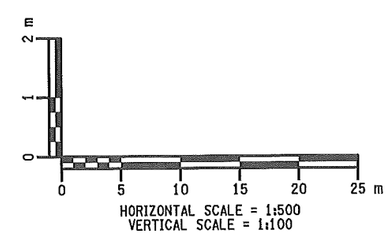
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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




| PREPARED BY: ON: | ALTERED BY: ON: |
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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 2+800 TO HR 2+960
PROFILE

FISHERASSOCIATES

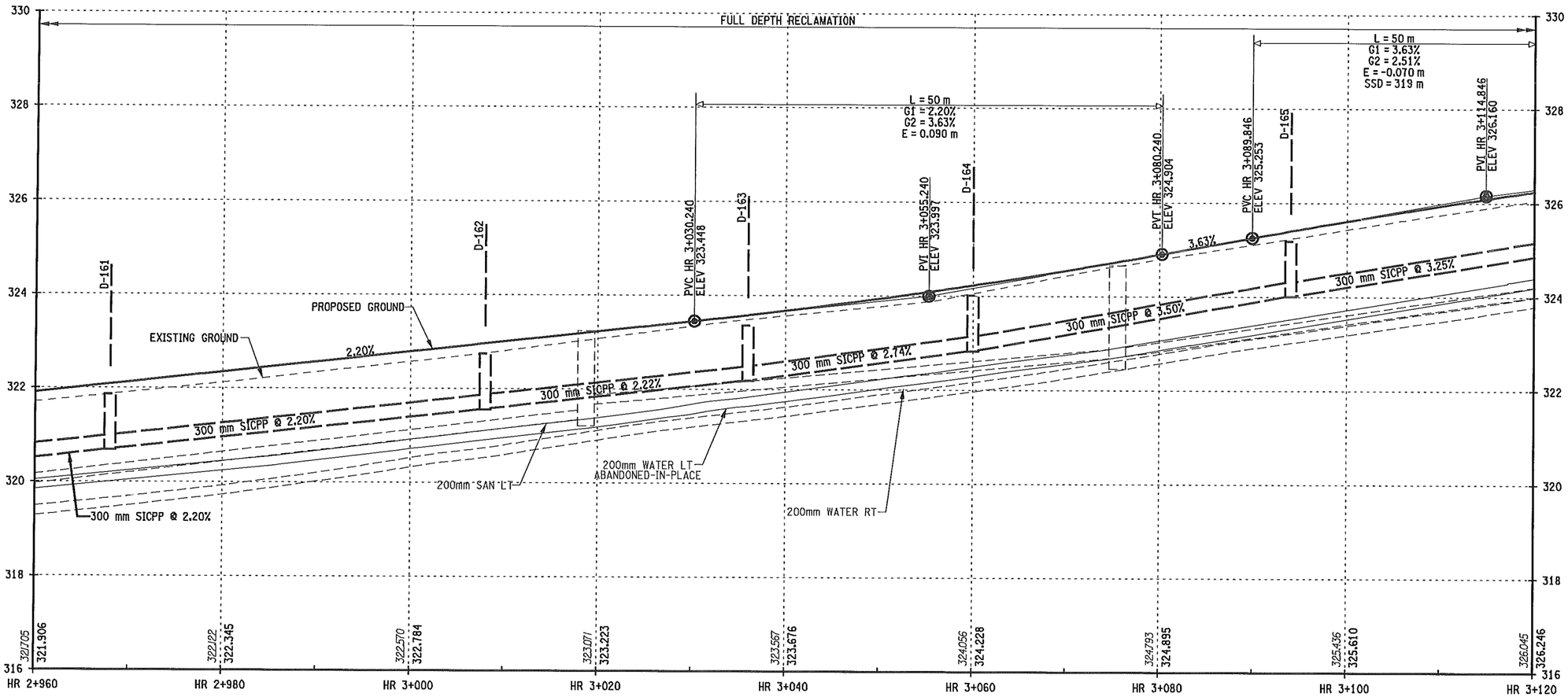
DRAWING NO. PR-11
SHEET NO. 70 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

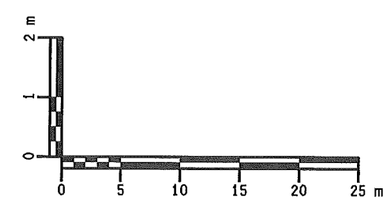
DOCUMENT NAME: 375325A_PRO.DGN

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




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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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+960 TO HR 3+120
PROFILE

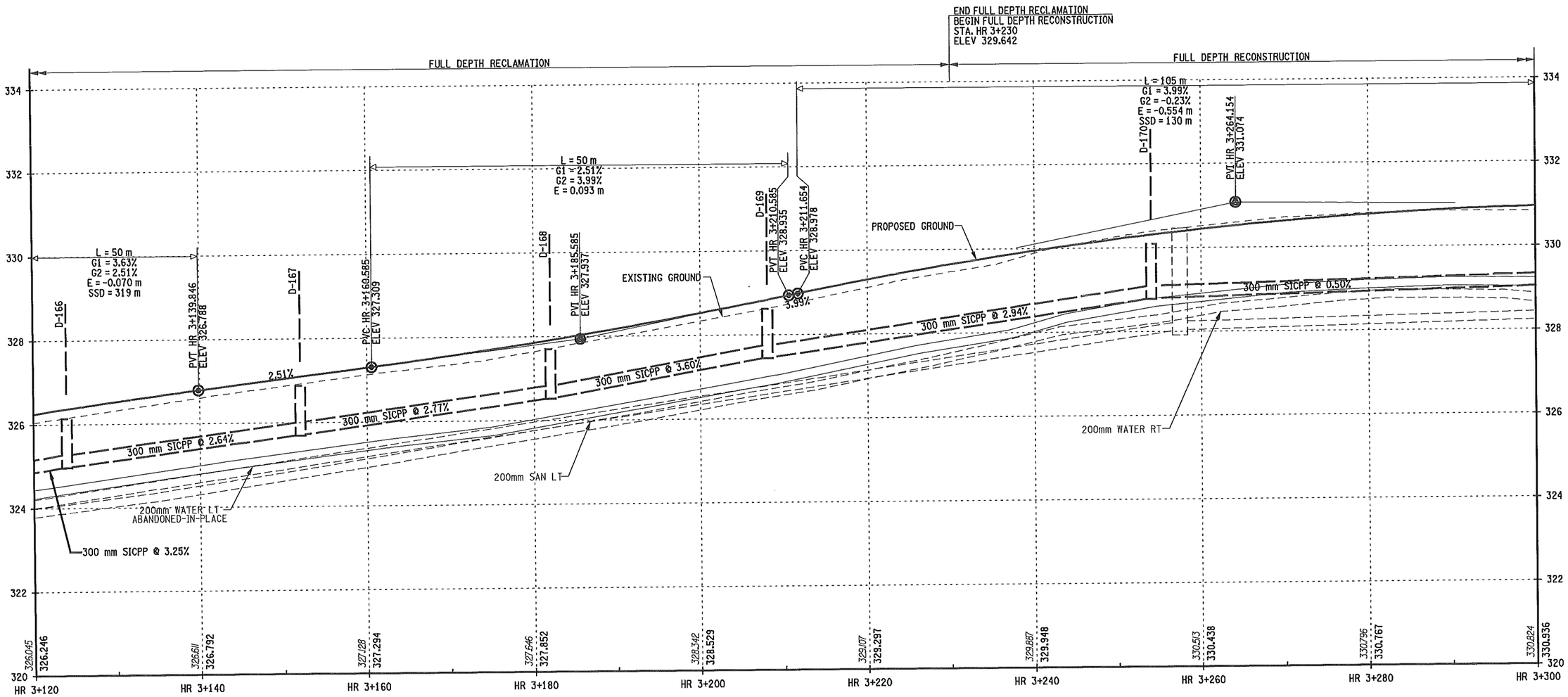
FISHER ASSOCIATES

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

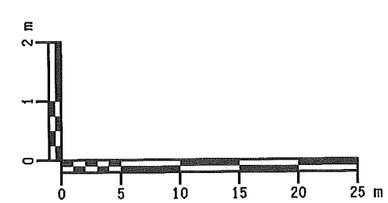
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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

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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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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+120 TO HR 3+300
PROFILE

FISHERASSOCIATES

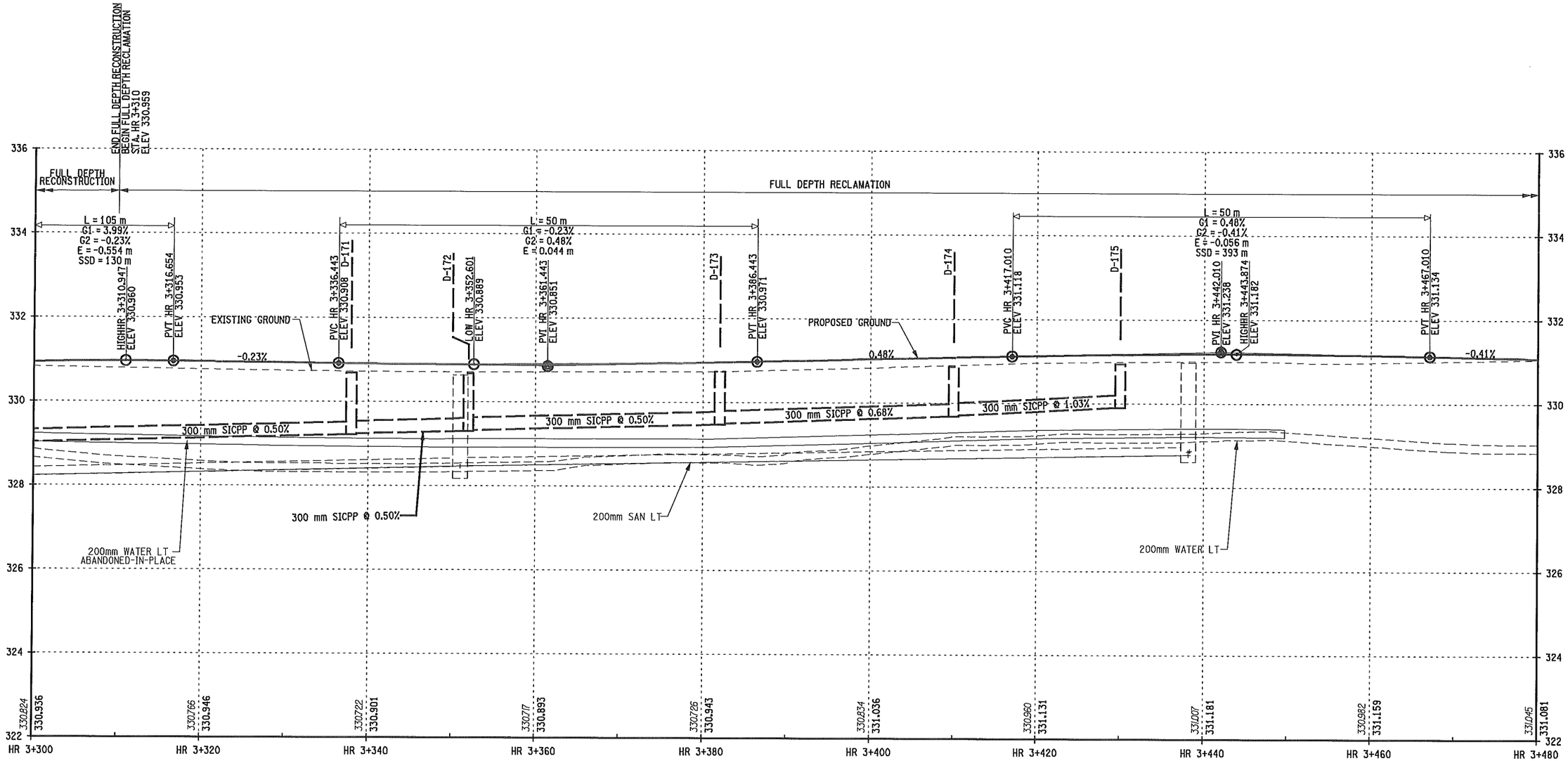
DRAWING NO. PR-13
SHEET NO. 72 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

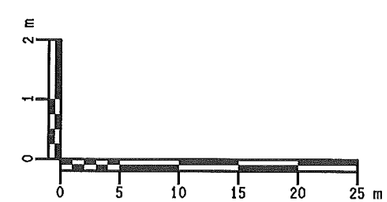
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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




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

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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

HR 3+300 TO HR 3+480
PROFILE

FISHERASSOCIATES

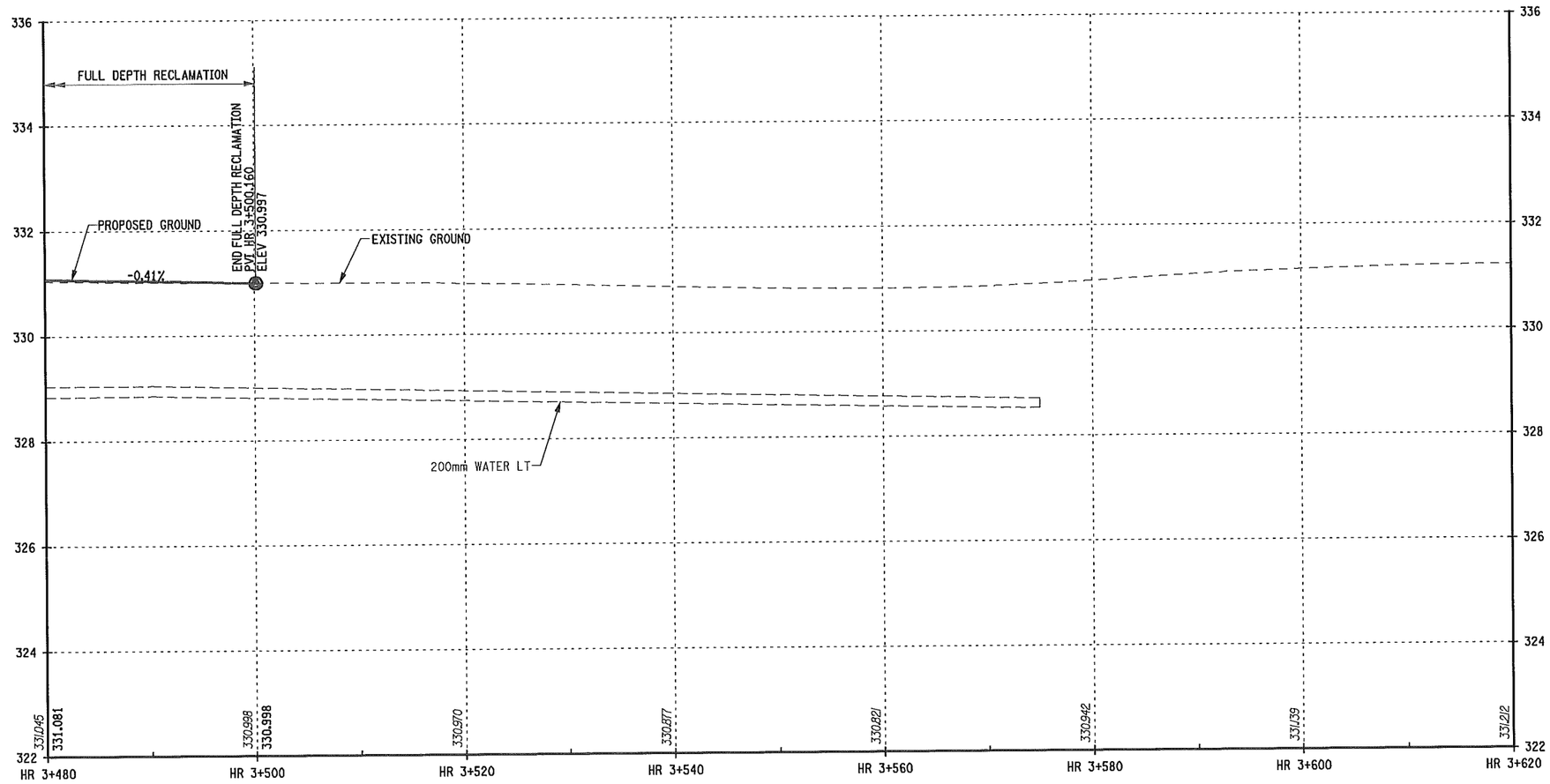
DRAWING NO. PR-14
SHEET NO. 73 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

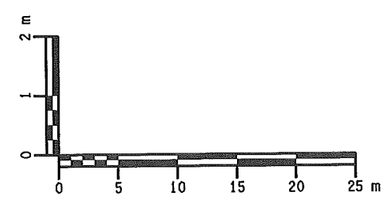
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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




HANSHAW ROAD
NORMAL CROWN




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

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|---|---|
| | |

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 3+480 TO HR 3+620
PROFILE

FISHERASSOCIATES

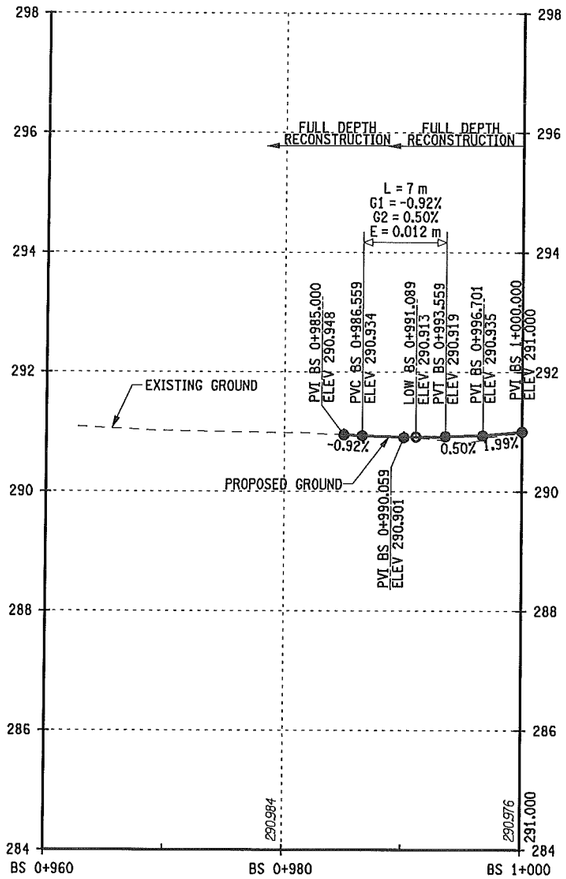
DRAWING NO. PR-15
SHEET NO. 74 OF 130

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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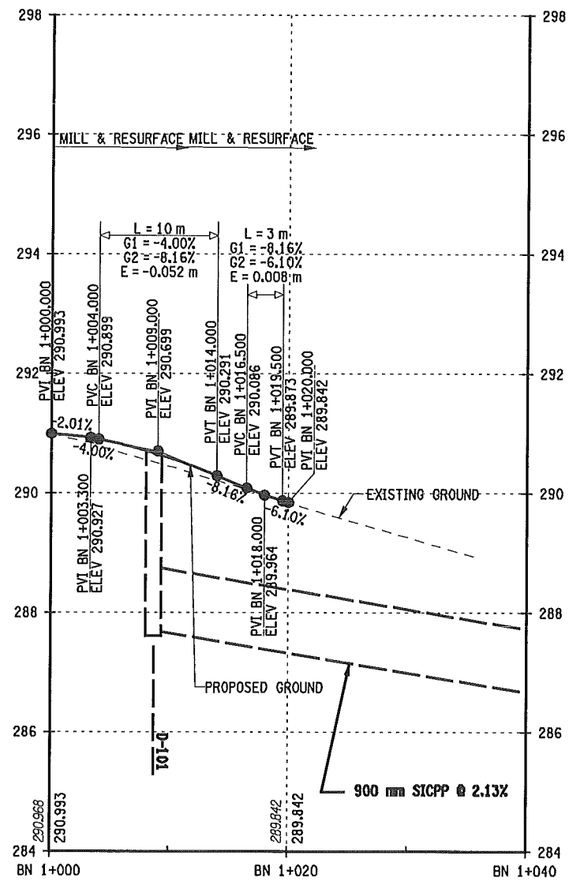


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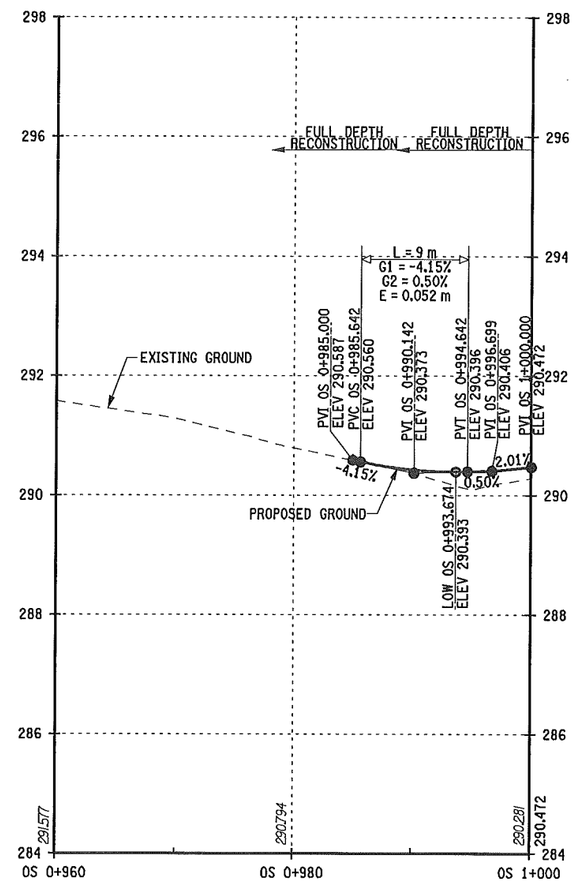


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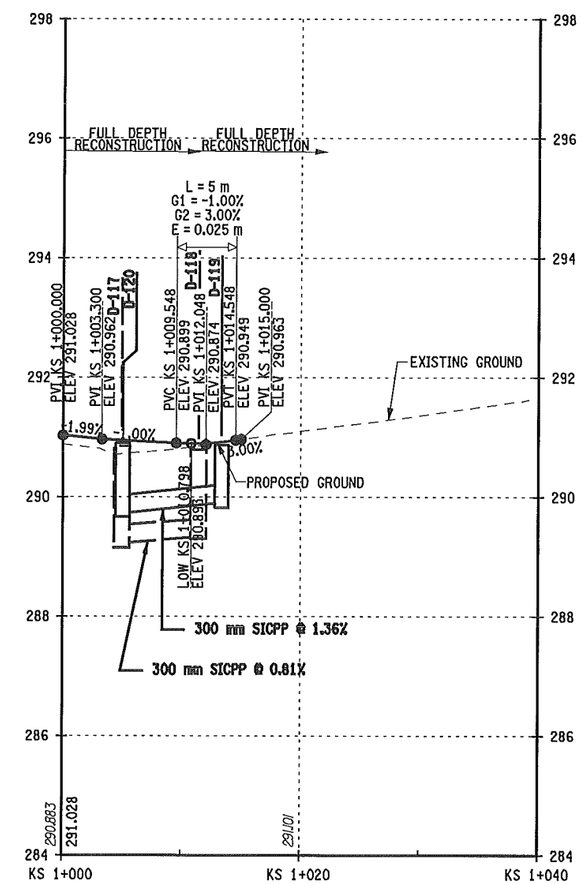


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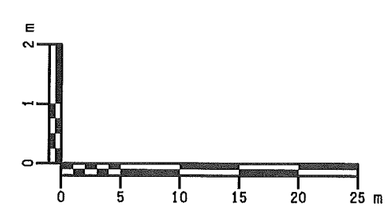


HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:100

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

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AS BUILT REVISIONS
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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

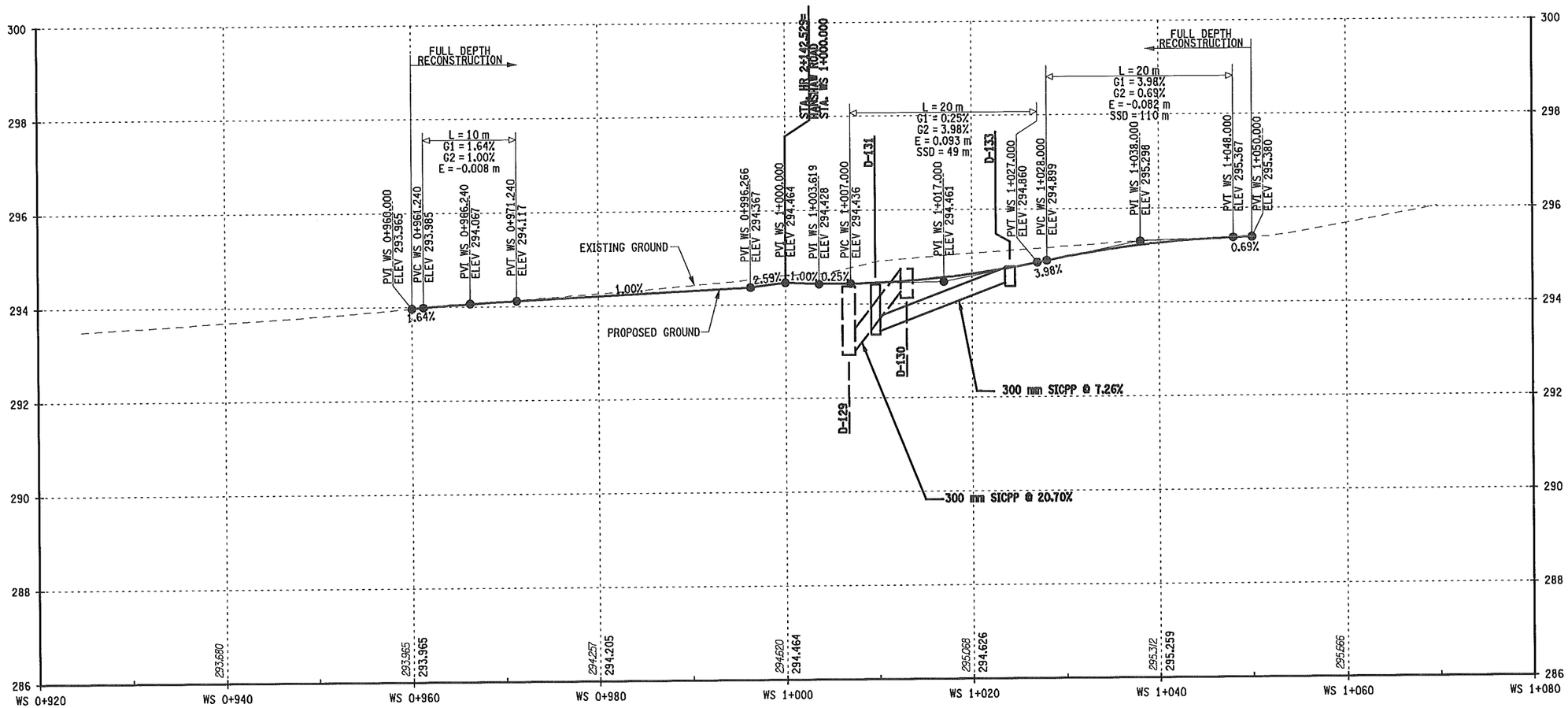
DRAWING NO. PR-16
SHEET NO. 75 OF 130

DOCUMENT NAME: 375325A_PRO.DGN

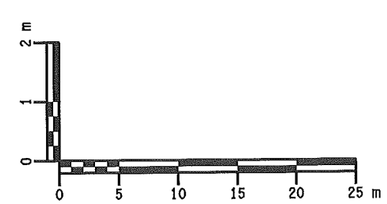
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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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| 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

SIDE STREET PROFILE

FISHERASSOCIATES

DRAWING NO. PR-17
SHEET NO. 76 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

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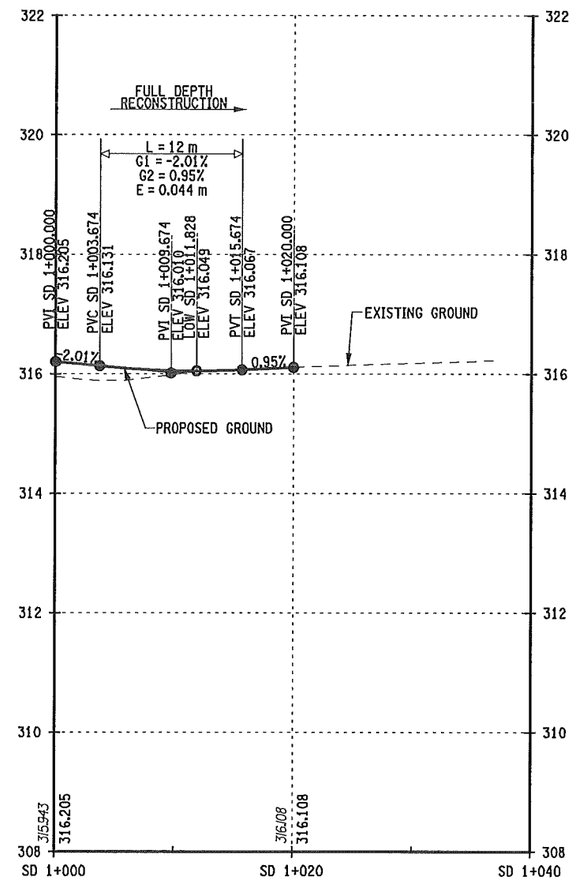
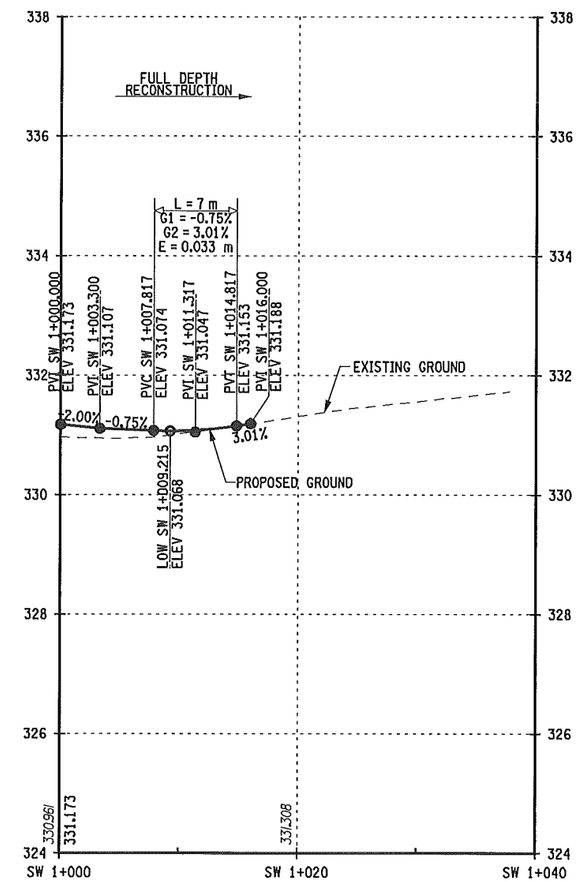
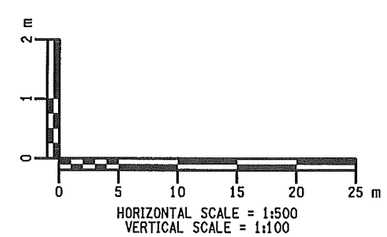



SALEM DRIVE




SAPSUCKER WOODS ROAD

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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

SIDE STREET PROFILE

FISHERASSOCIATES

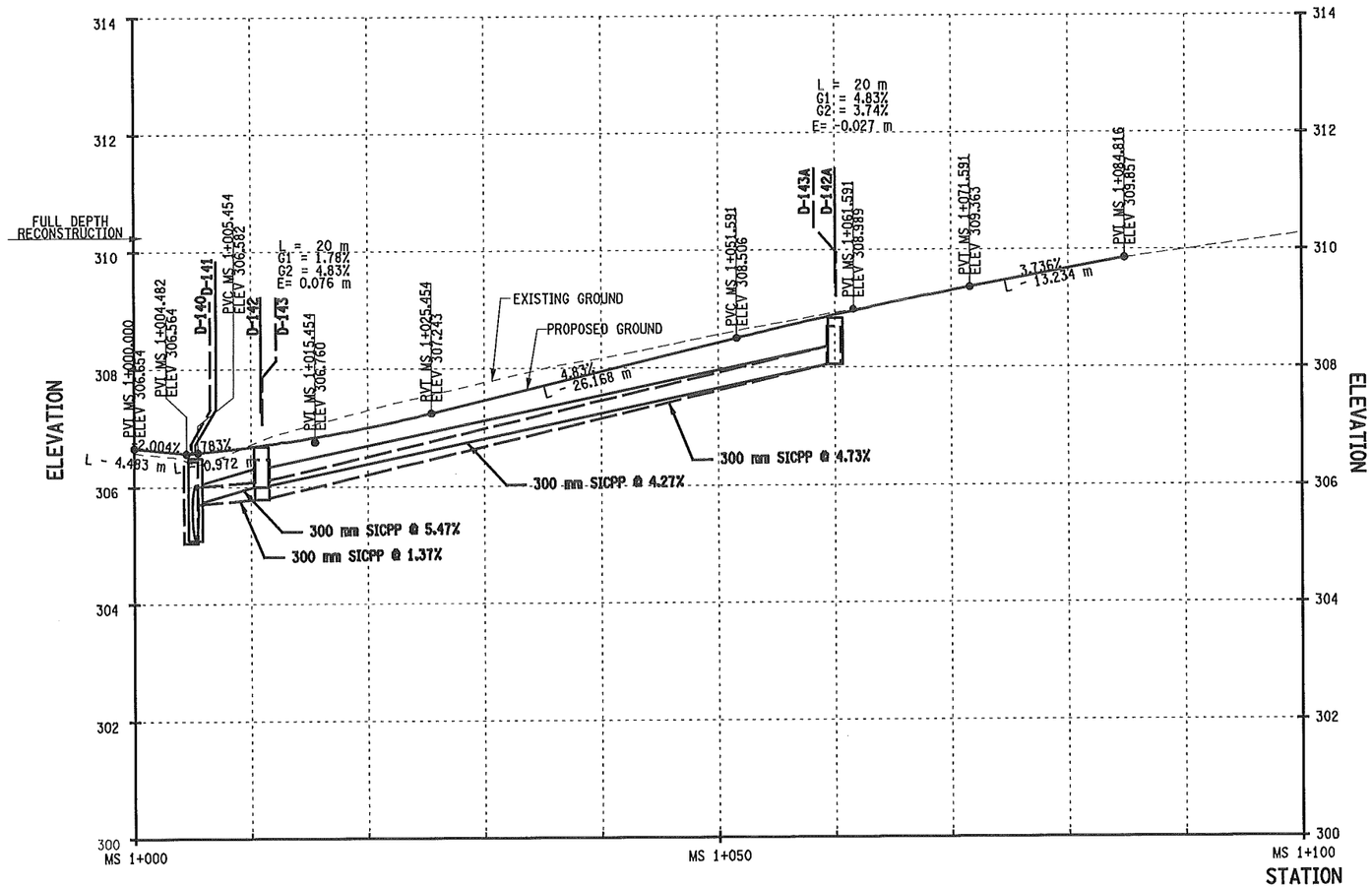
DRAWING NO. PR-18
SHEET NO. 77 OF 130

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

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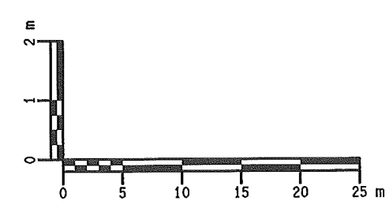


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VERTICAL SCALE = 1:100

| PREPARED BY: ON: | ALTERED BY: ON: |
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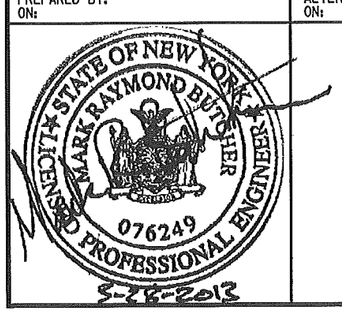


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AS BUILT REVISIONS
DESCRIPTION OF WORK:

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

SIDE STREET PROFILE

FISHERASSOCIATES

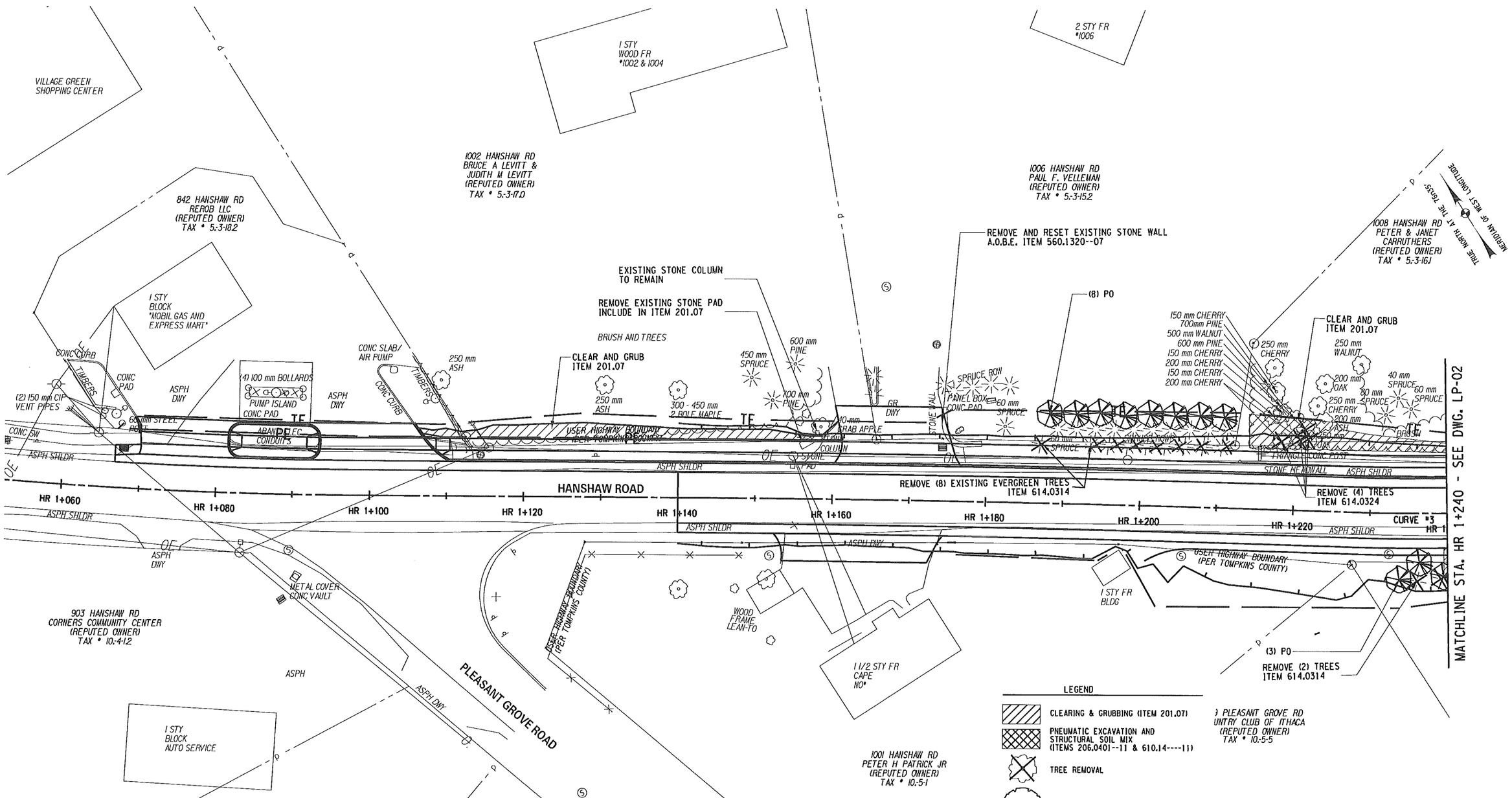
DRAWING NO. PR-19
SHEET NO. 78 OF 130

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




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

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 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

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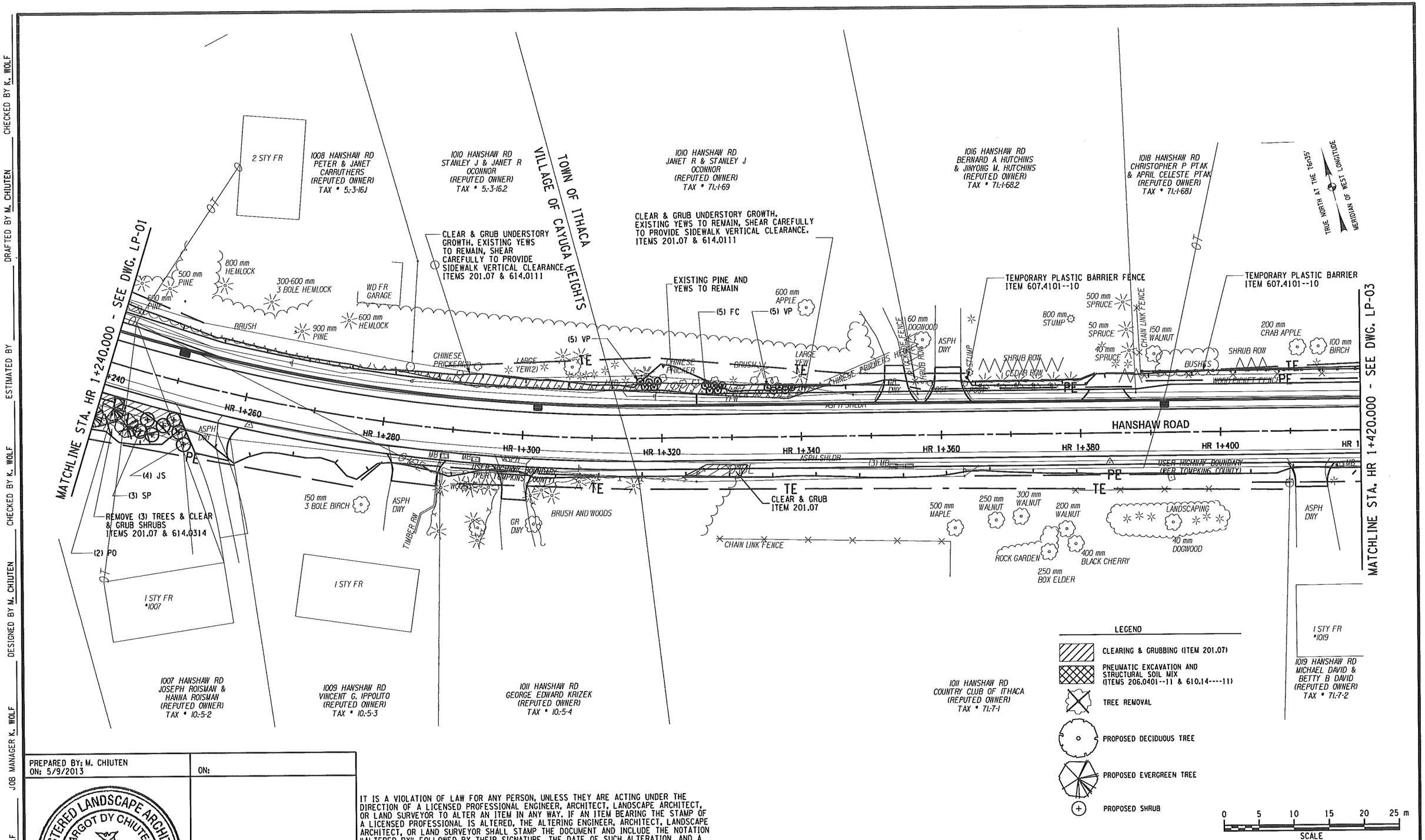


PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

REGISTERED LANDSCAPE ARCHITECT
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001898
STATE OF NEW YORK

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TOWN OF ITHACA
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PIN 3753.25

PS&E DATE
MAY 2013

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ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

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 ESTIMATED BY DRAFTED BY M. CHIUTEN CHECKED BY K. WOLF CHECKED BY K. WOLF

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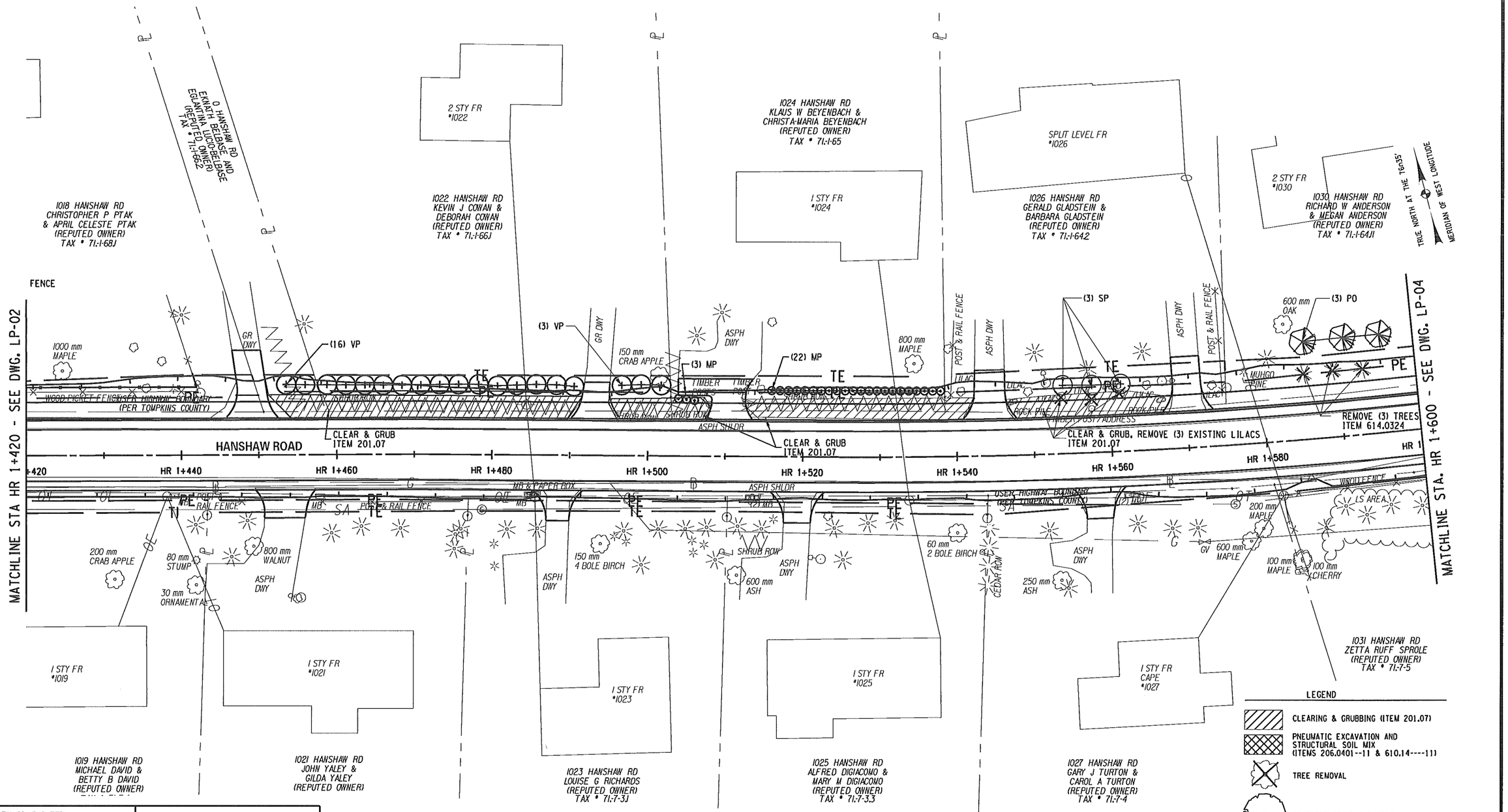


PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

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TOWN OF ITHACA
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PIN 3753.25

PS&E DATE
MAY 2013

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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

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

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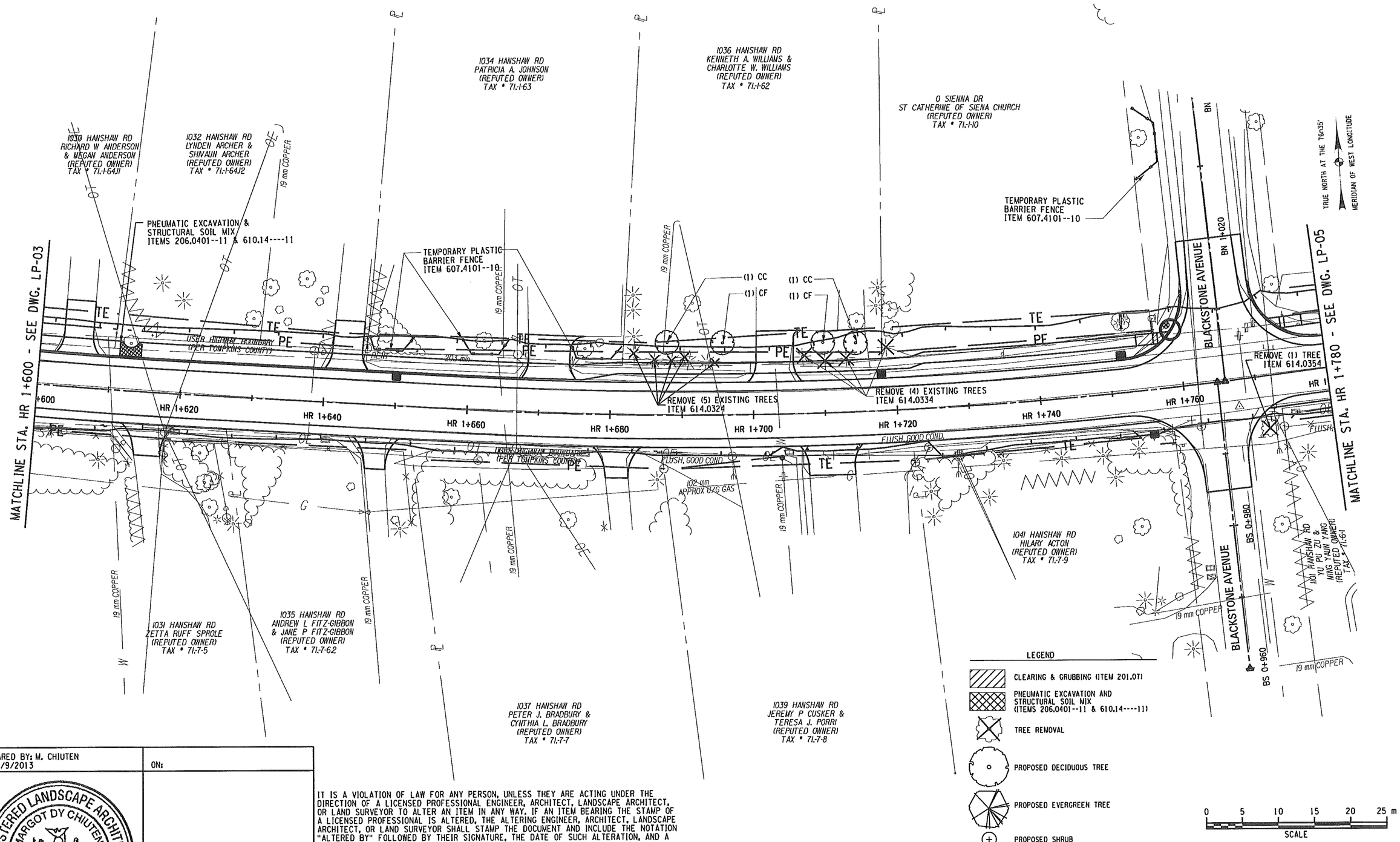


PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

REGISTERED LANDSCAPE ARCHITECT
MARGOT DY CHIUTEN
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TOWN OF ITHACA
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PIN 3753.25

PS&E DATE
MAY 2013

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LANDSCAPE PLANS

TWLA

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

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

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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

FILE NAME = FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_04.DGN
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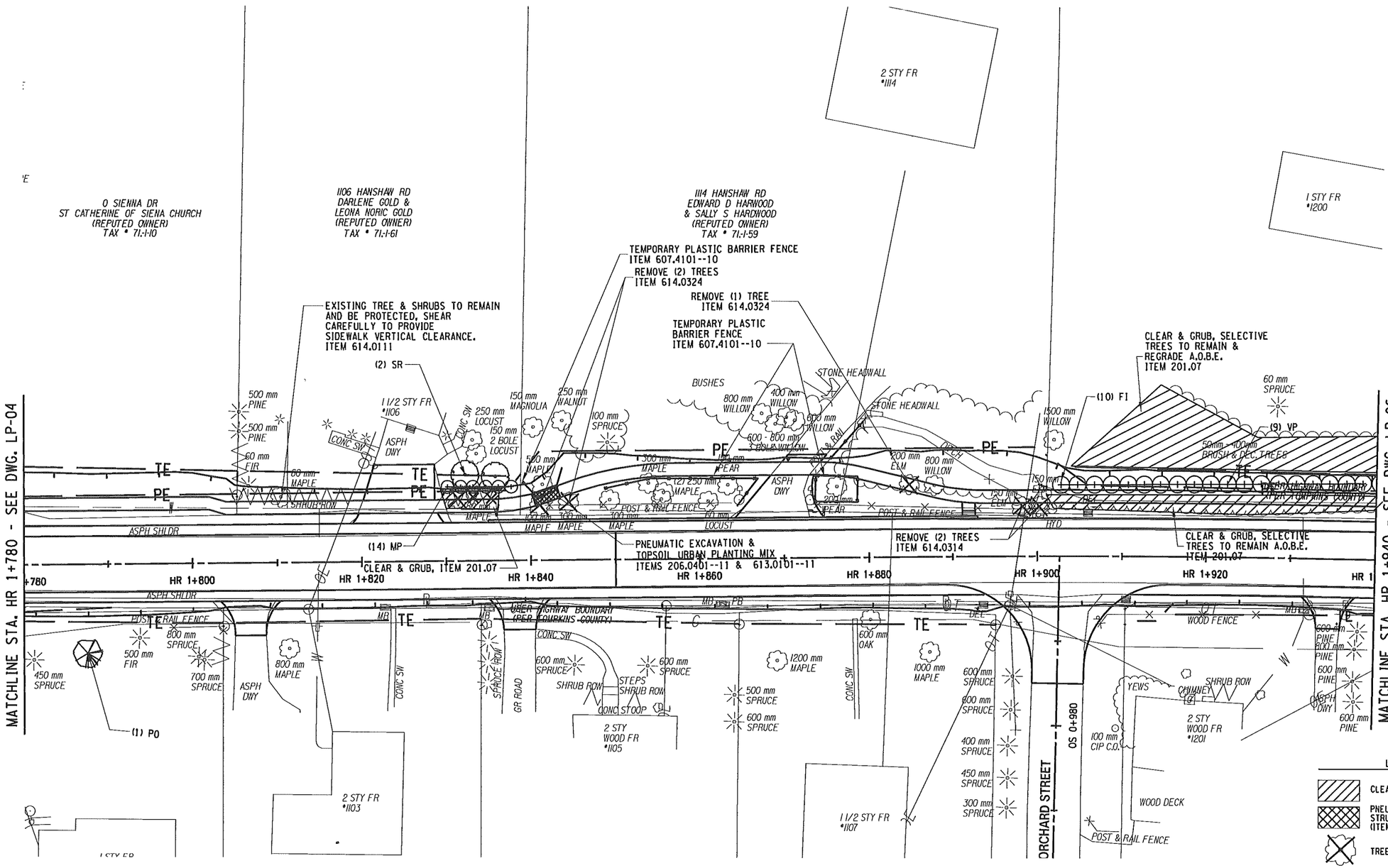
USER = M. CHIUTEN




## LEGEND

- CLEARING & GRUBBING (ITEM 201.07)
- PNEUMATIC EXCAVATION AND STRUCTURAL SOIL MIX (ITEMS 206.0401--11 & 610.14----11)
- TREE REMOVAL
- PROPOSED DECIDUOUS TREE
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0 5 10 15 20 25 m
SCALE

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

ON:

REGISTERED LANDSCAPE ARCHITECT
MARGOT DY CHIUTEN
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STATE OF NEW YORK

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COUNTY ROUTE 109

TOWN OF ITHACA
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COUNTY: TOMPKINS

PIN 3753.25

PS&E DATE
MAY 2013

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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

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_05.DGN
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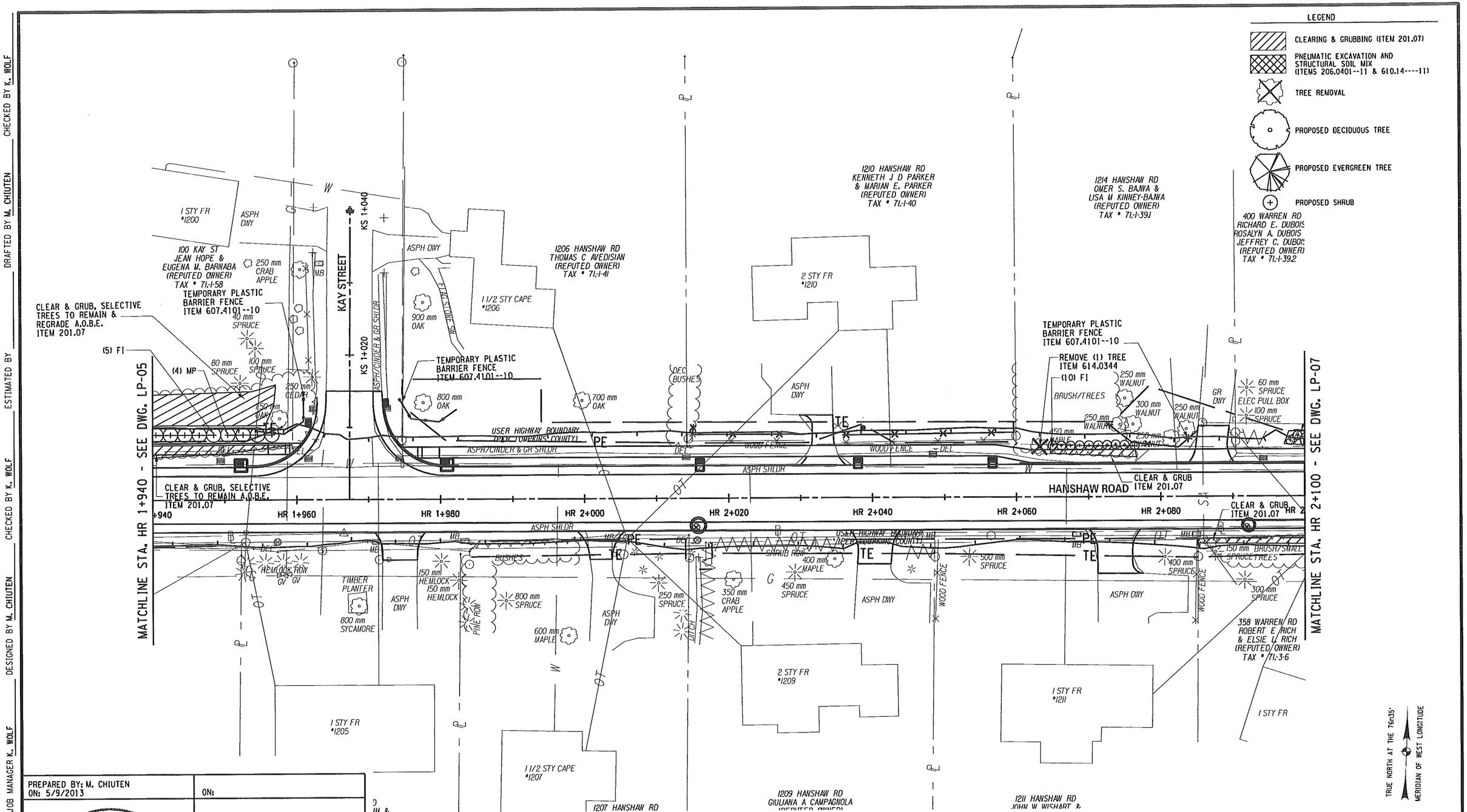


PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

REGISTERED LANDSCAPE ARCHITECT
MARGOT DY CHIUTEN
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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-6
SHEET NO. 84 OF 130

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

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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

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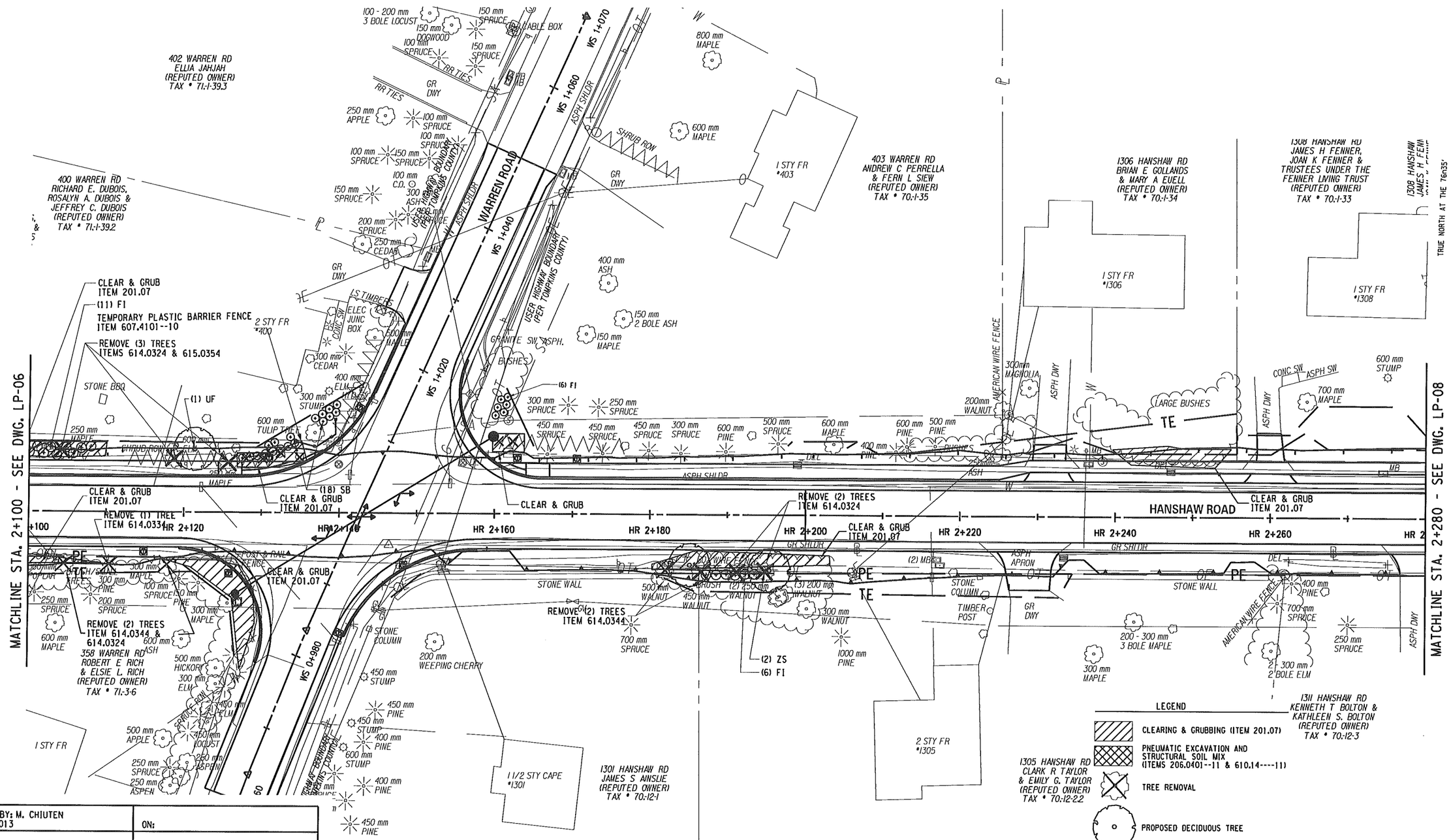


PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

REGISTERED LANDSCAPE ARCHITECT
MARGOT DY CHIUTEN
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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

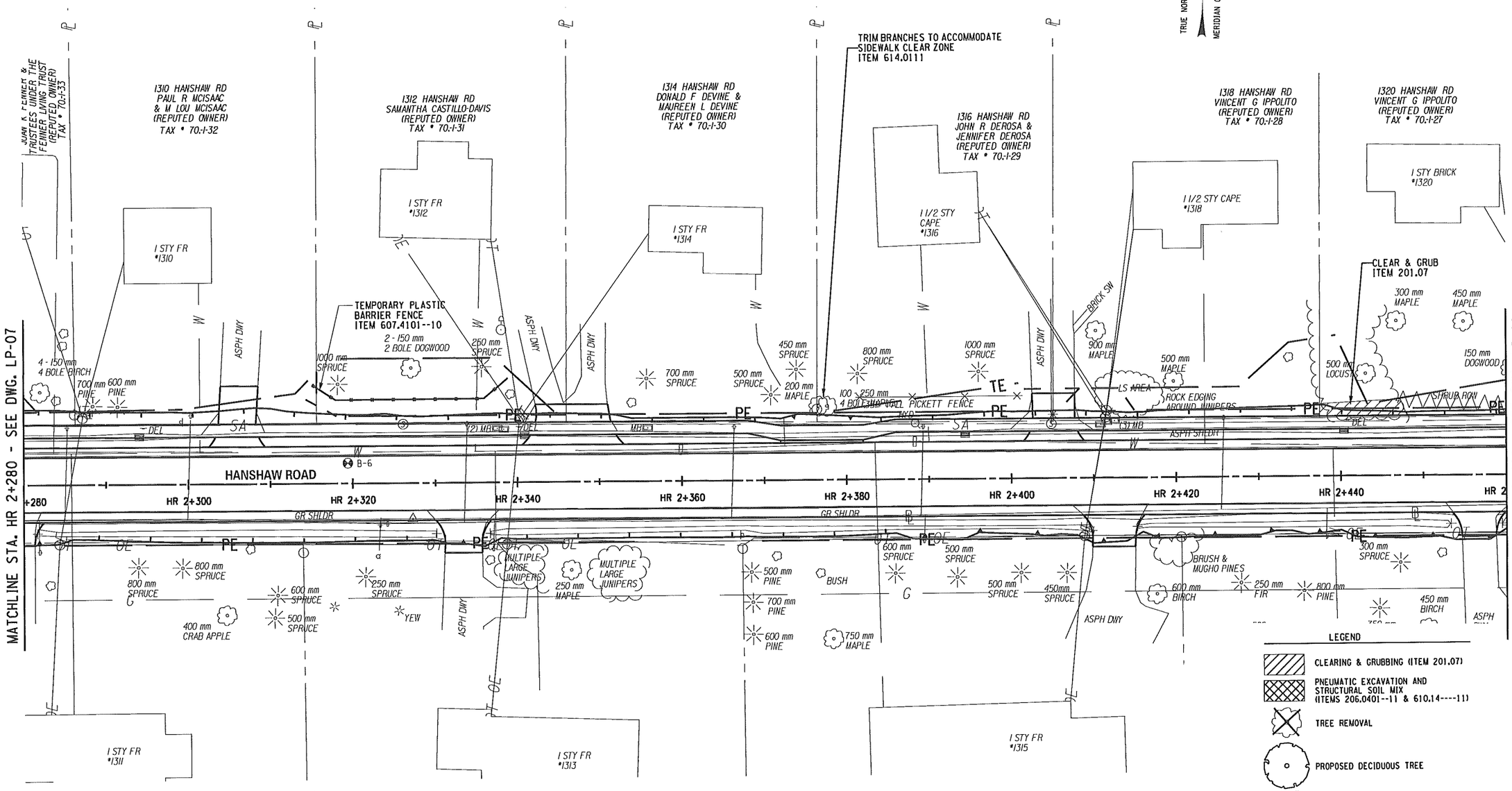
DRAWING NO. LP-7
SHEET NO. 85 OF 130

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:

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MARGOT DY CHIUTEN
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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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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

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_08.DGN
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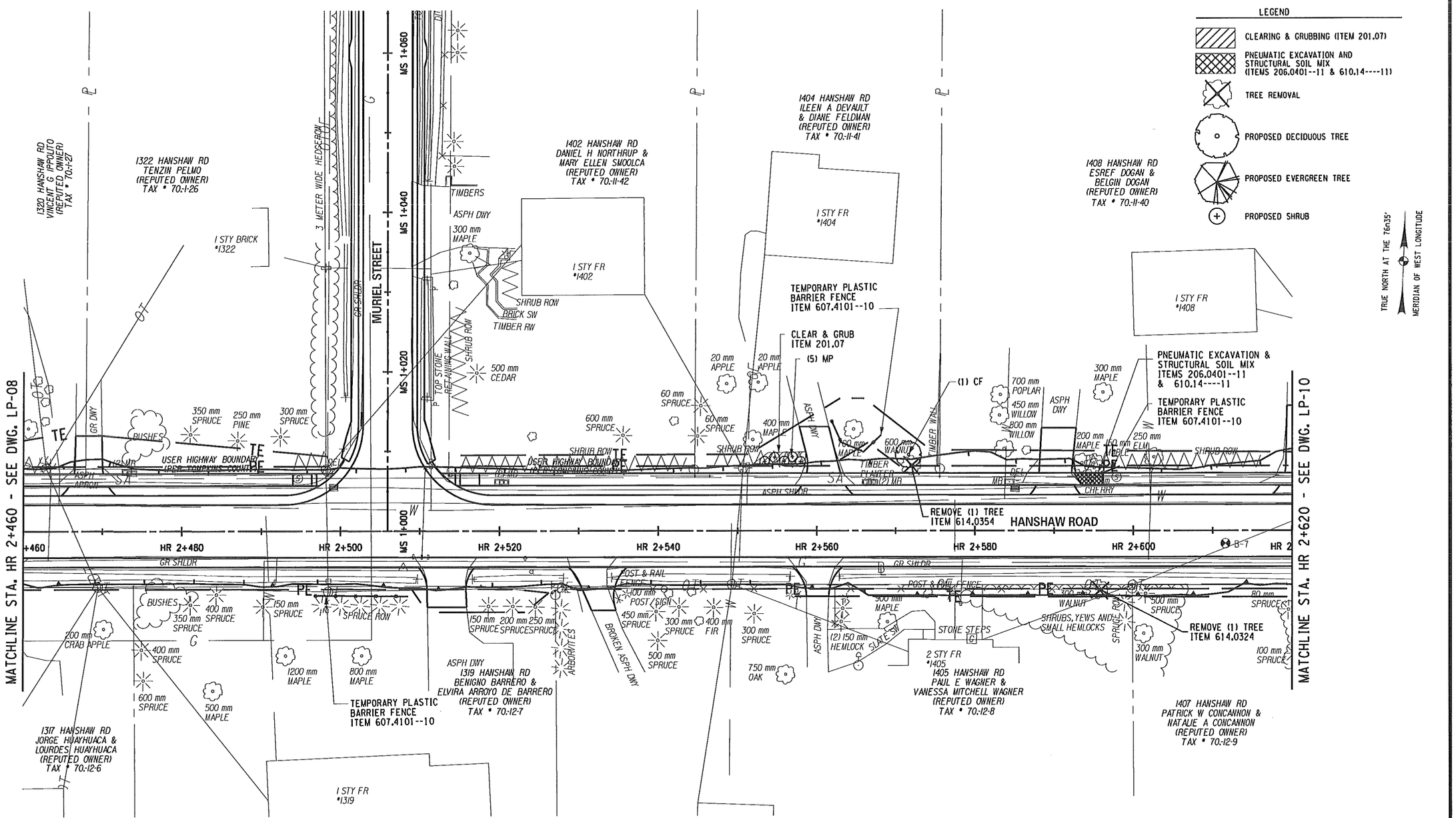
USER = M. CHIUTEN




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

ON:

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COUNTY ROUTE 109

TOWN OF ITHACA
VILLAGE OF CAYUGA HEIGHTS
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PIN 3753.25

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CULVERTS

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LANDSCAPE PLANS

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 DRAFTED BY M. CHIUTEN CHECKED BY K. WOLF ESTIMATED BY

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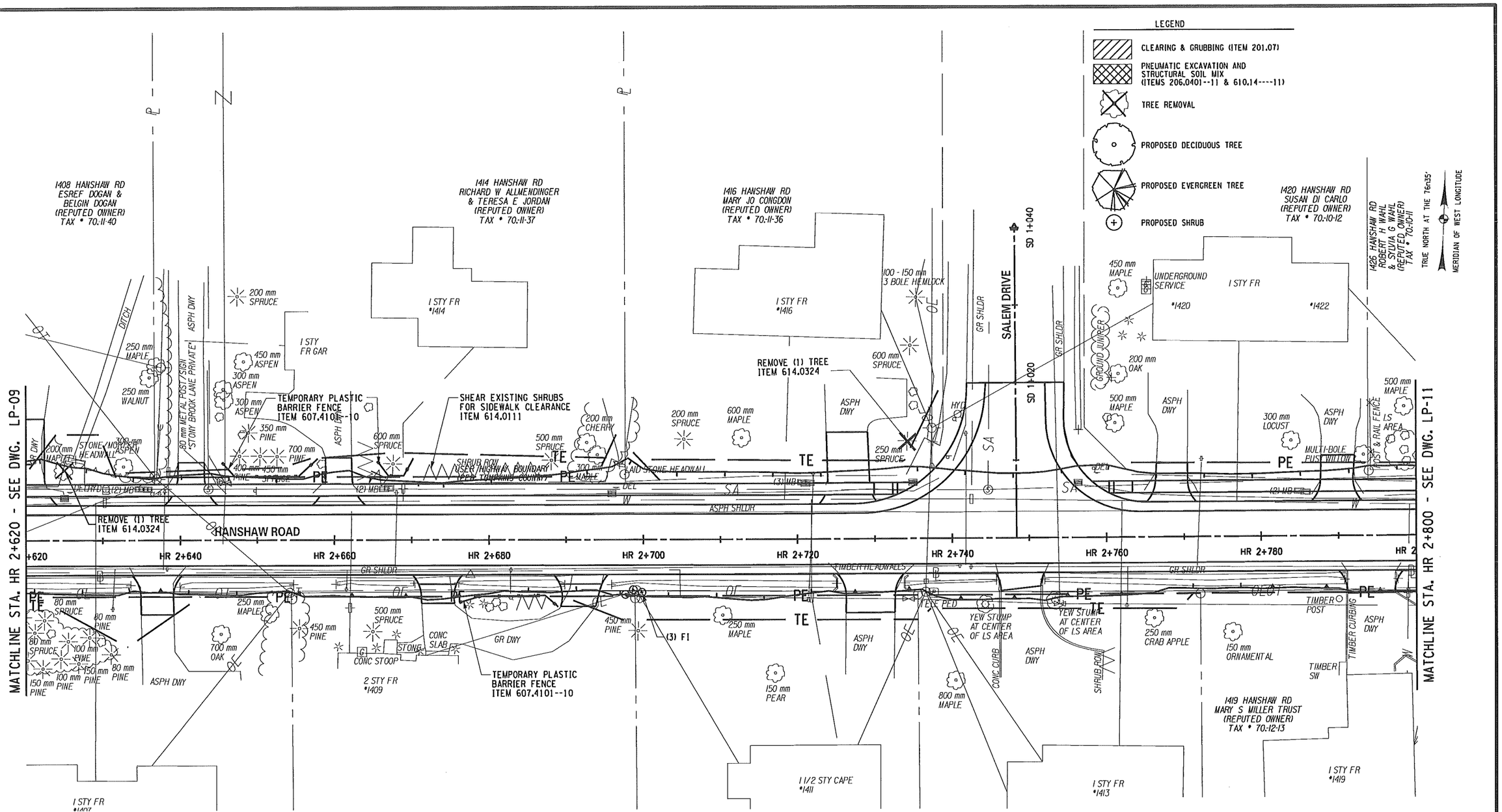


PREPARED BY: M. CHIUTEN
ON: 5/9/2013

ON:

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TWLA

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

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_10.DGN

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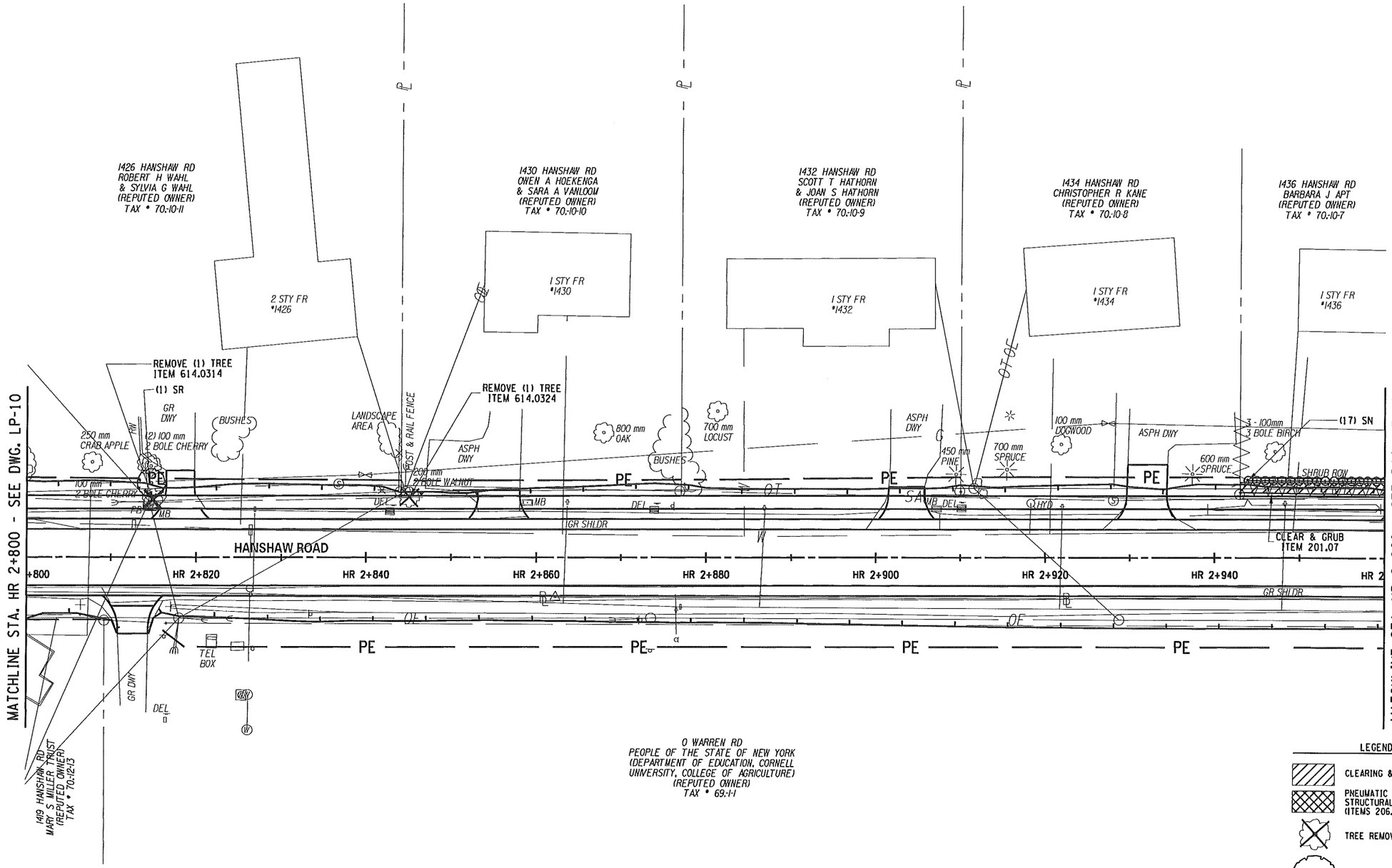
USER = M. CHIUTEN

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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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 PLANS

TWLA

DRAWING NO. LP-11
SHEET NO. 89 OF 130

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_11.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

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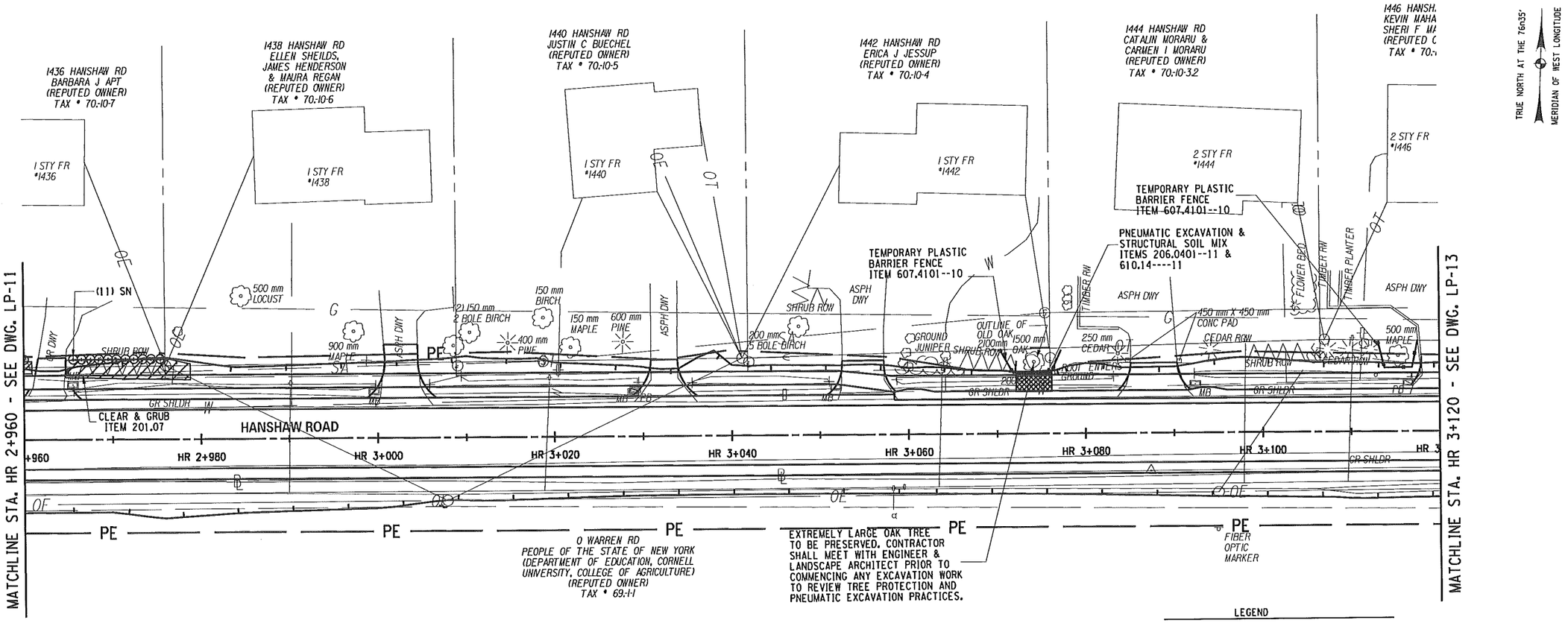


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SHEET NO. 90 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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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

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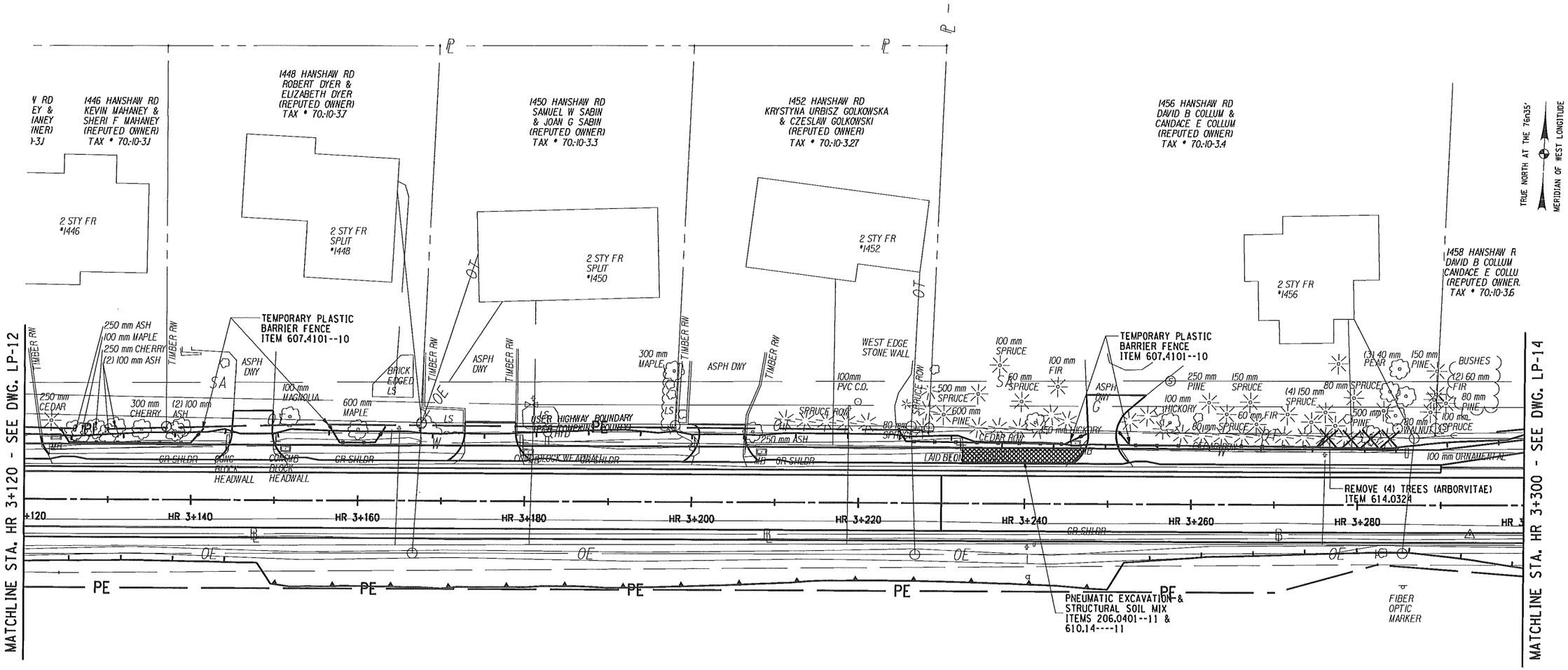


0 WARREN RD
PEOPLE OF THE STATE OF NEW YORK
(DEPARTMENT OF EDUCATION, CORNELL
UNIVERSITY, COLLEGE OF AGRICULTURE)
(REPUTED OWNER)
TAX # 69.-1-1

LEGEND

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SHEET NO. 91 OF 130

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_13.DGN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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JOB MANAGER K. WOLF
DESIGNED BY M. CHIUTEN
CHECKED BY K. WOLF
DRAFTED BY M. CHIUTEN
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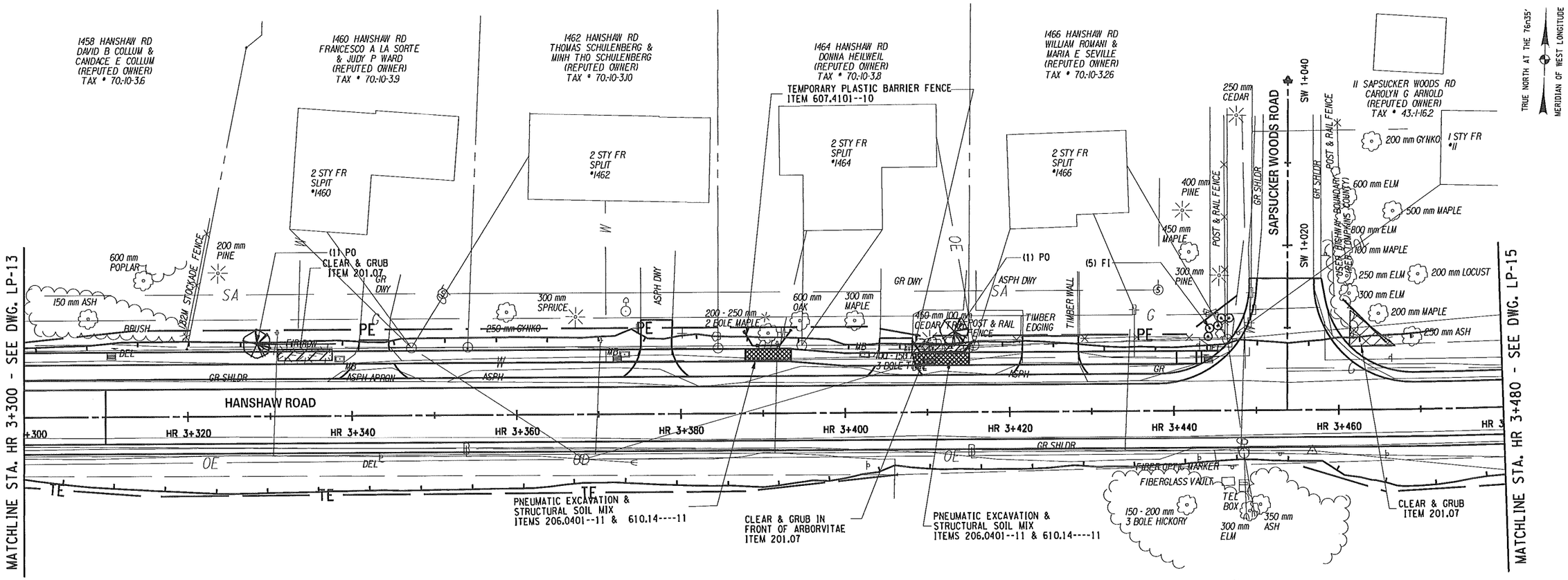


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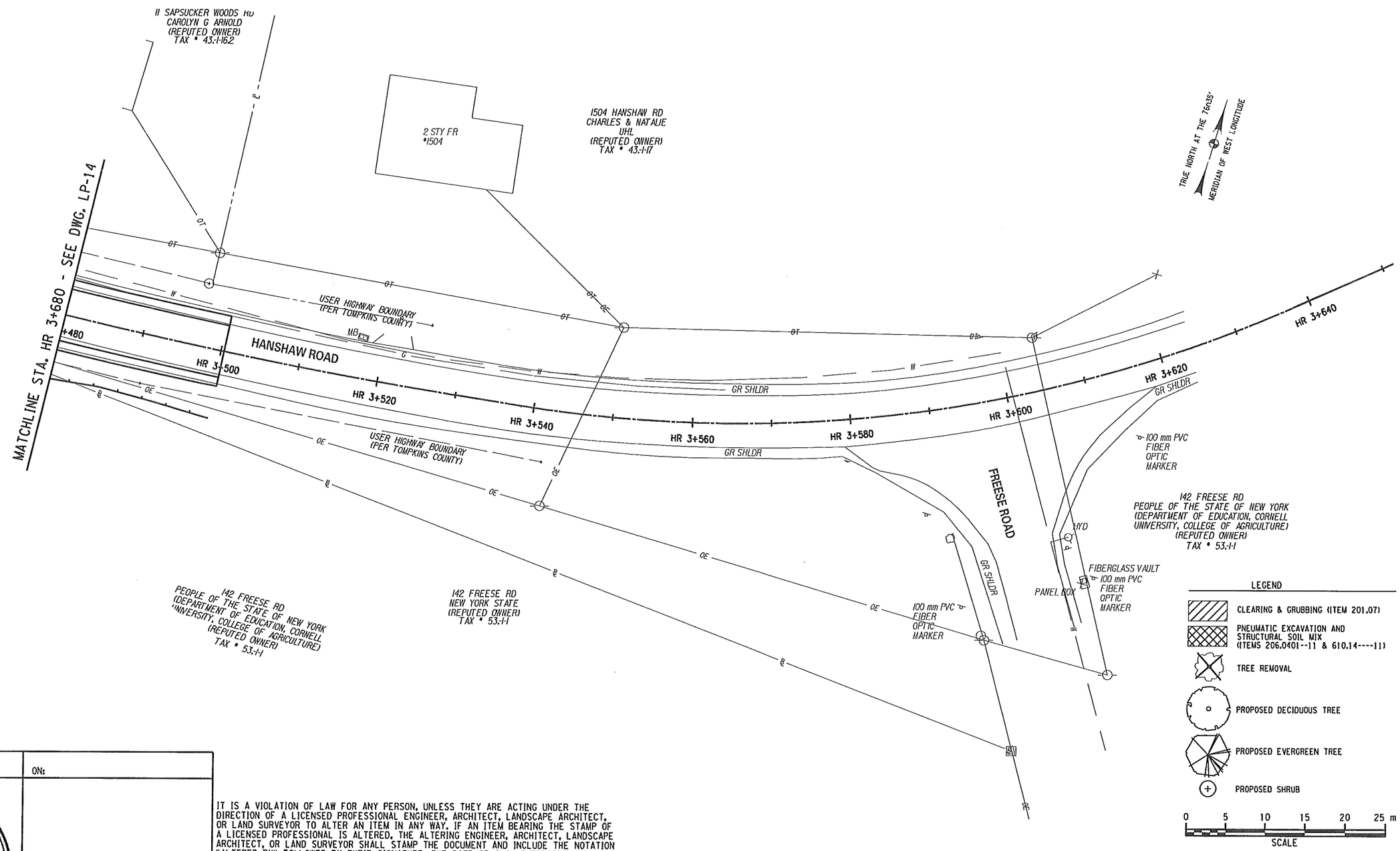


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LANDSCAPE PLANS

TWLA

DRAWING NO. LP-15
SHEET NO. 93 OF 130

DOCUMENT NAME: FILE: T:\PROJECTS\HANSHAW ROAD\ACAD\375325_CPH_LAP_15.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

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

| 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 | 40 | 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 |

LEGEND

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- PROPOSED SHRUB

## 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.

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

ON:

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LANDSCAPE LEGEND AND NOTES

TWLA

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SHEET NO. 94 OF 130

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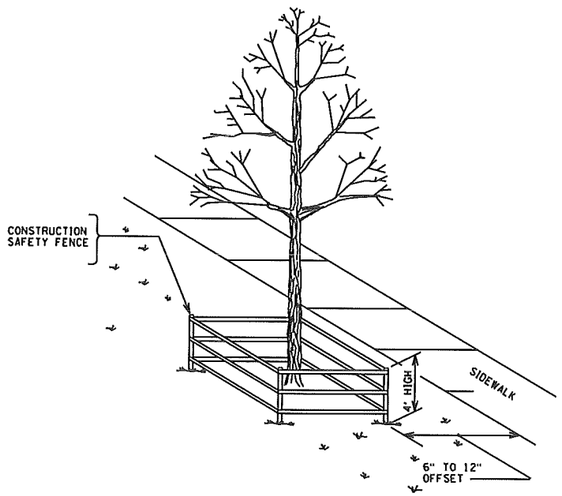


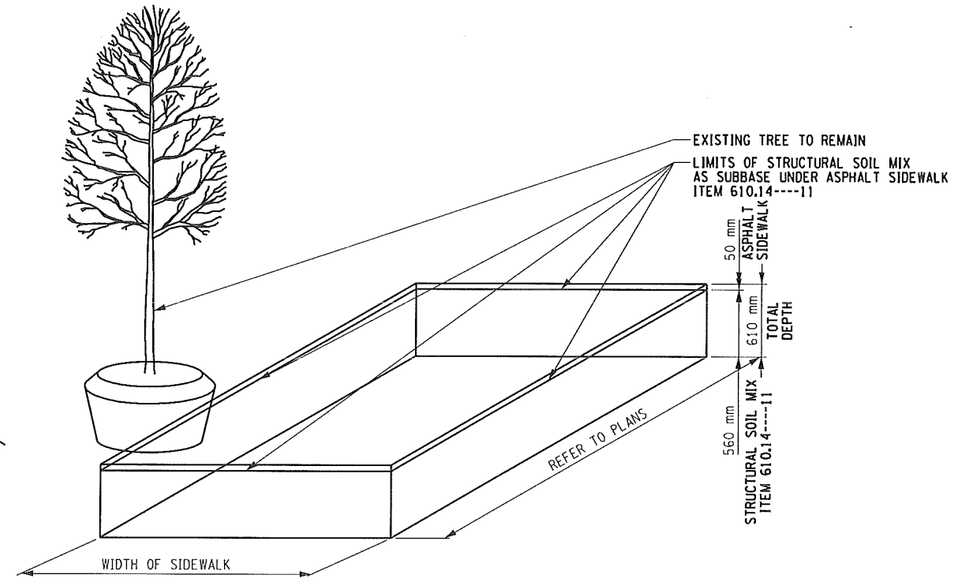

| TREE DIAMETER (DBH) | DISTANCE OF FENCING FROM FACE OF TREE TRUNK |
|---|---|
| LESS THAN 10" | 6' |
| 10" - 14" | 10' |
| 15" - 19" | 12' |
| 20" OR MORE | 15' |

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.

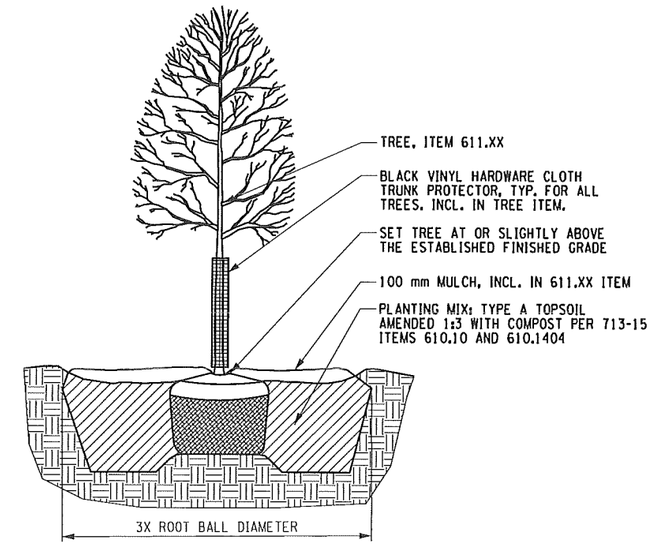
## TEMPORARY PLASTIC BARRIER FENCE

ITEM 607.1401--10
SCALE: NOT TO SCALE



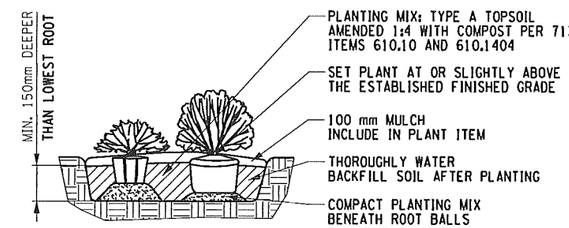

## STRUCTURAL SOIL MIX ADJACENT TO EXISTING TREE

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



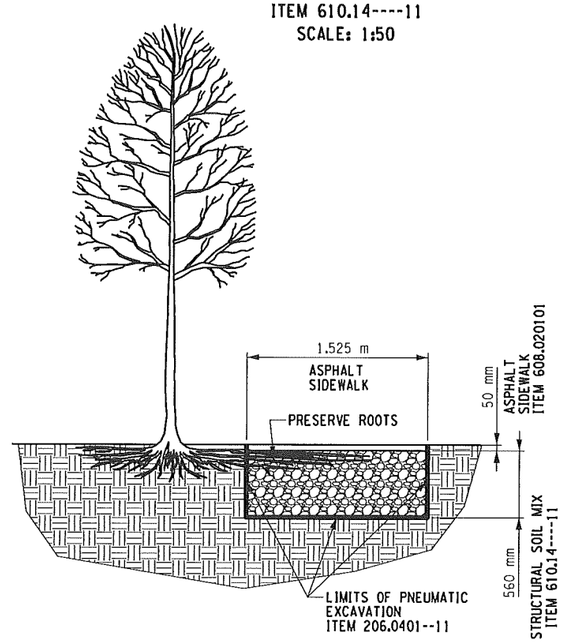

## TREE PLANTING

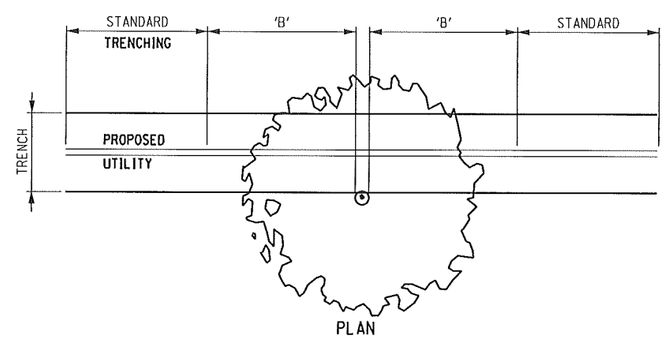
SCALE: 1:50




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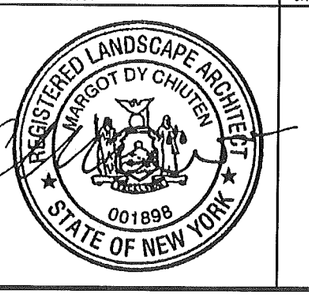
PREPARED BY: M. CHIUTEN
ON: 5/9/2013

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 ESTIMATED BY K. WOLF DRAFTED BY M. CHIUTEN CHECKED BY K. WOLF

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

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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

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

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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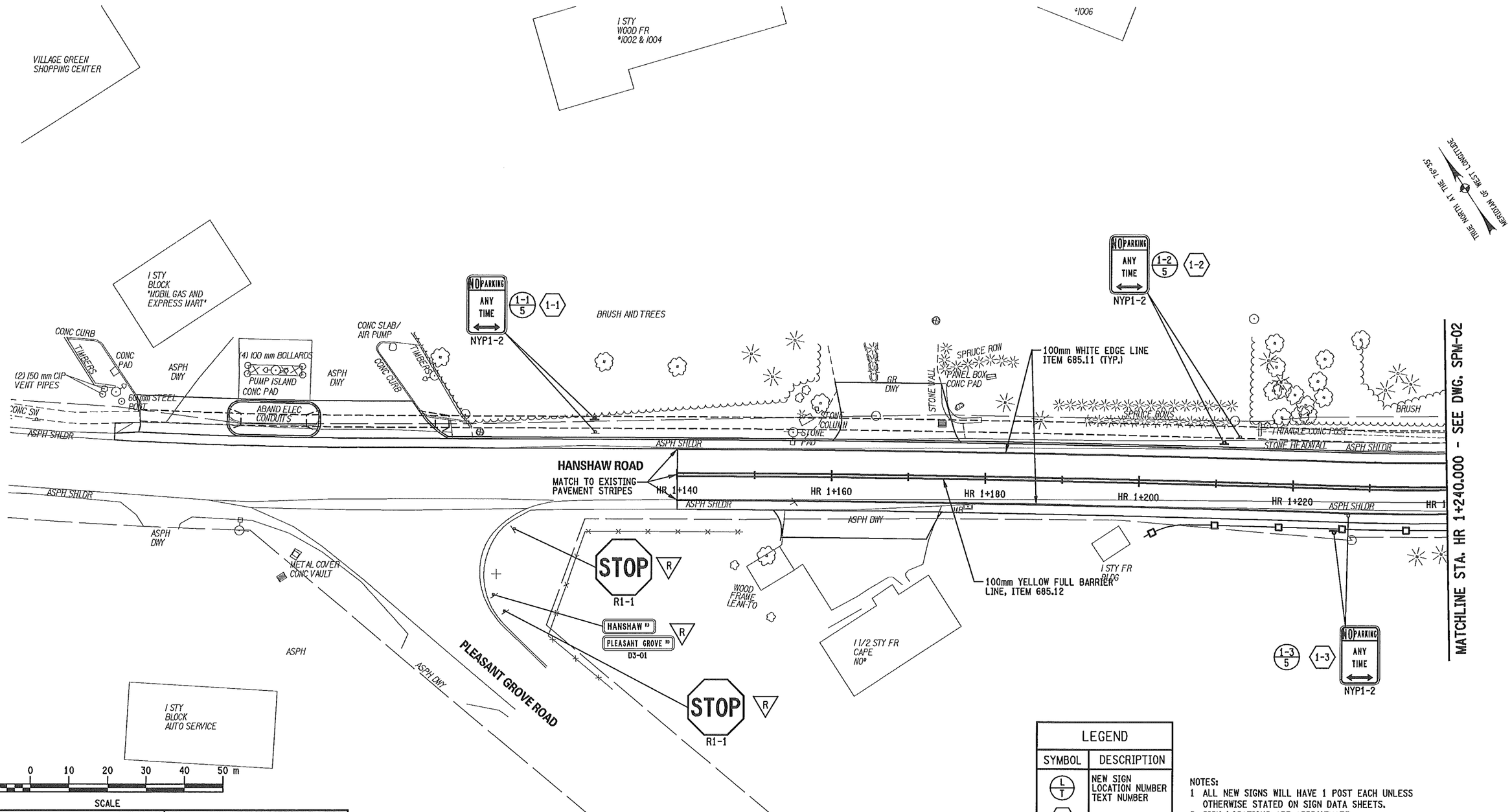


| LEGEND | |
|---|---|
| SYMBOL | DESCRIPTION |
| L/T | NEW SIGN LOCATION NUMBER TEXT NUMBER |
| L | SIGN REMOVAL |
| L | RELOCATE TO POSITION SHOWN |
| R | TO REMAIN |

NOTES:
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| 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

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SIGN LOCATION PLANS

FISHER ASSOCIATES

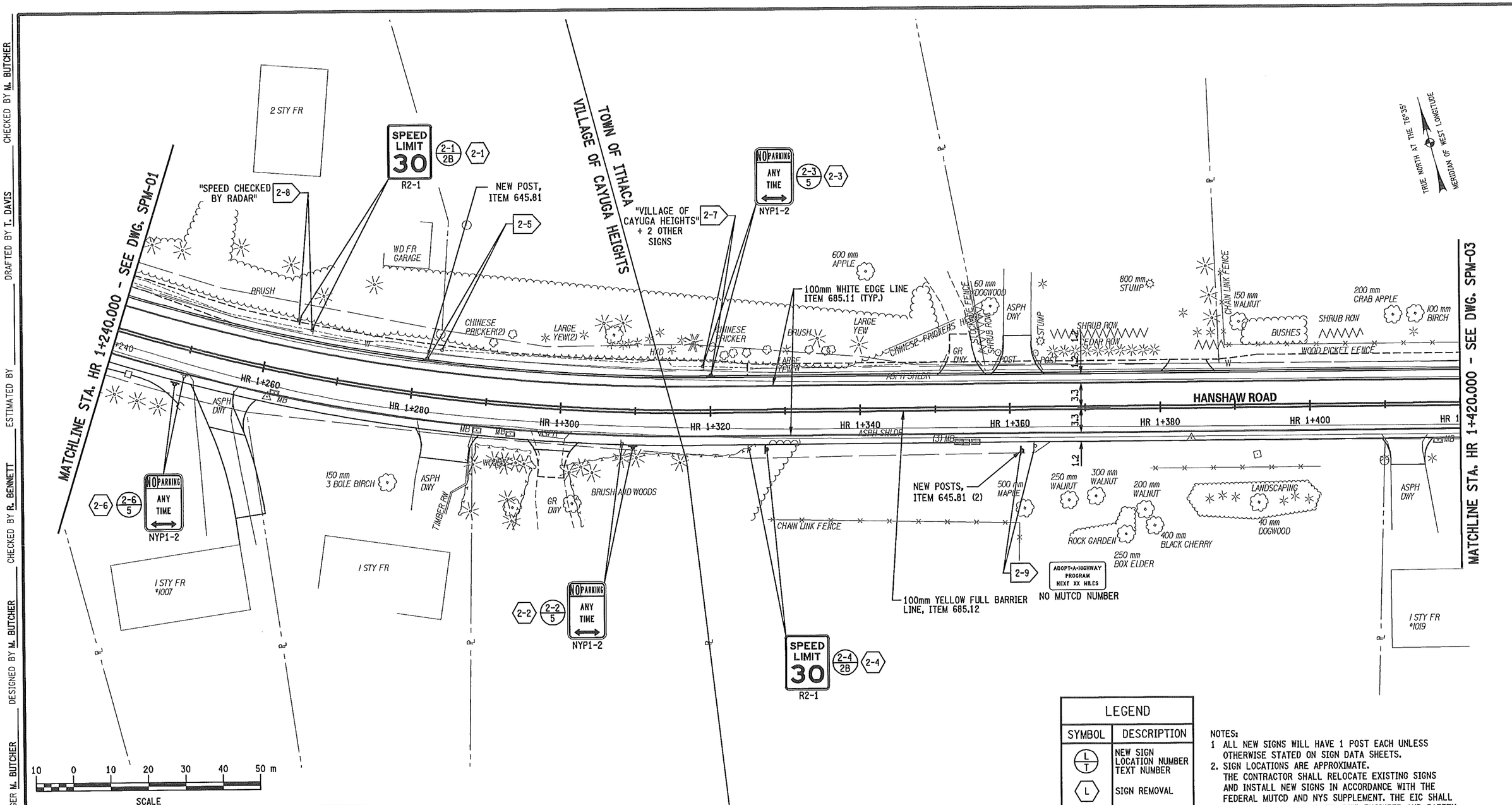
DRAWING NO. SPM-1
SHEET NO. 97 OF 130

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

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ON:

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ON:

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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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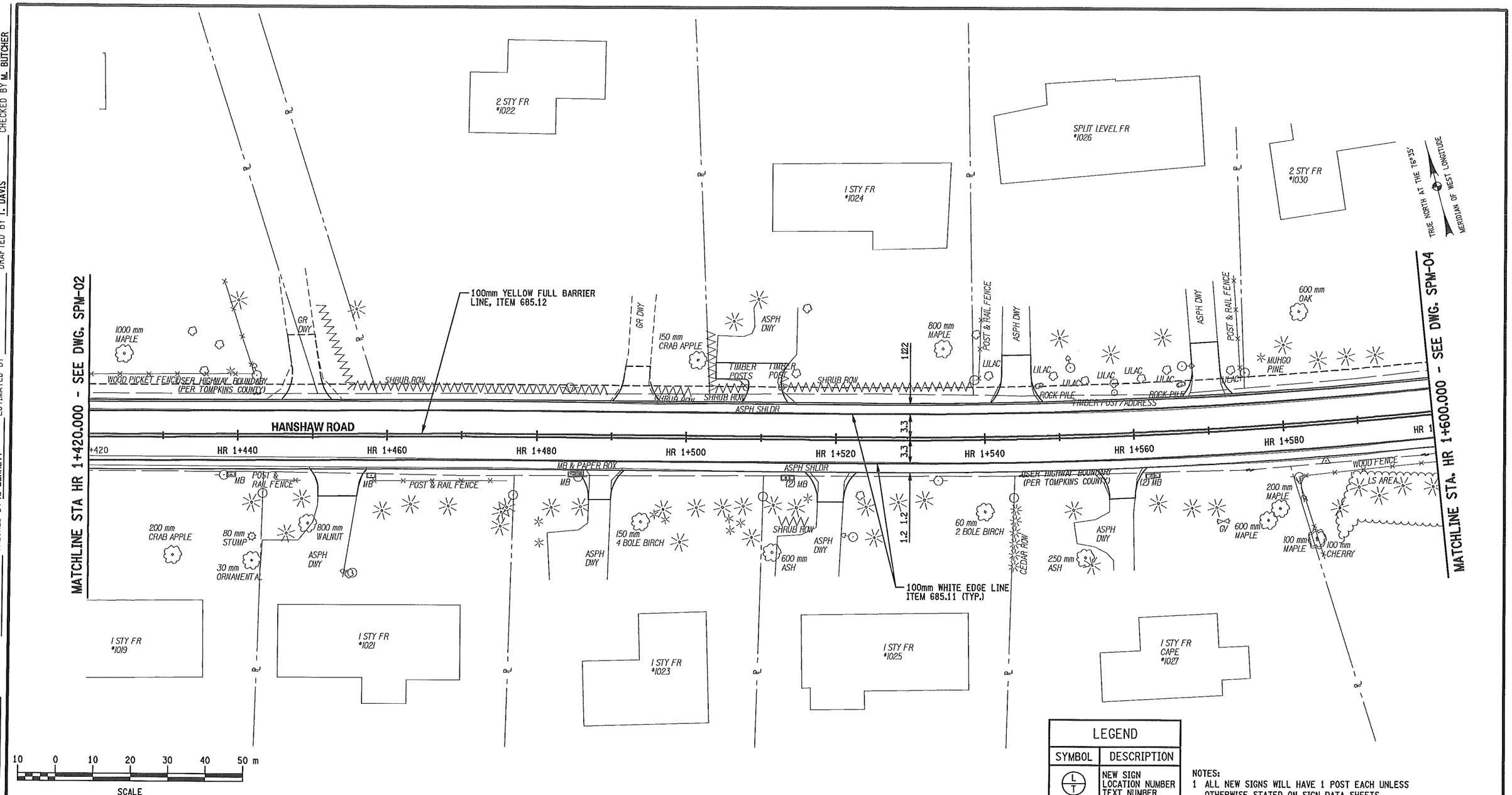
FISHERASSOCIATES

DRAWING NO. SPM-2
SHEET NO. 98 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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RECONSTRUCTION OF HANSHAW ROAD
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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-3
SHEET NO. 99 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
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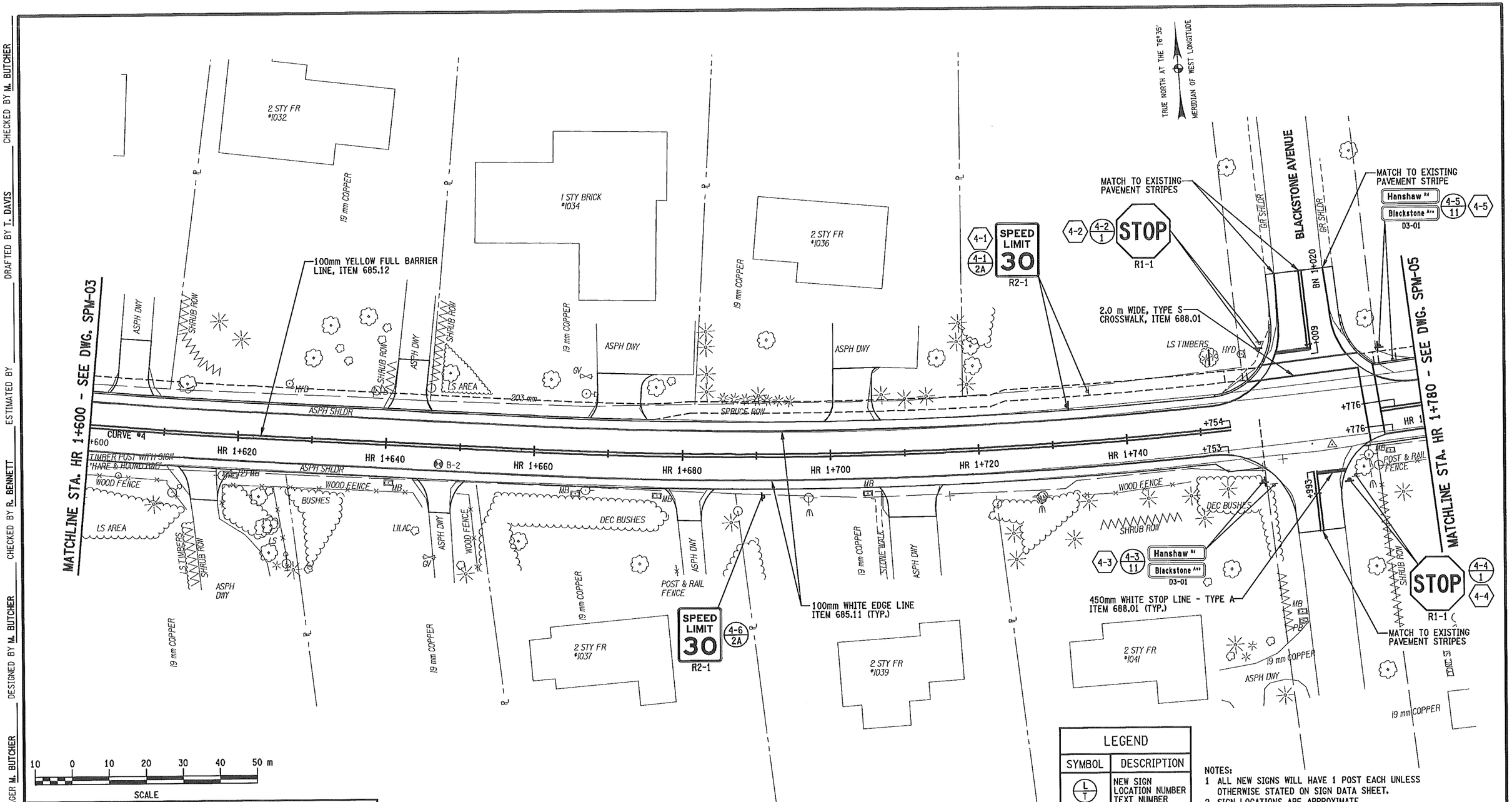


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PREPARED BY:
ON:

ALTERED BY:
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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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PS&E DATE
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BRIDGES

CULVERTS

ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN LOCATION PLANS

FISHER ASSOCIATES

DRAWING NO. SPM-4
SHEET NO. 100 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
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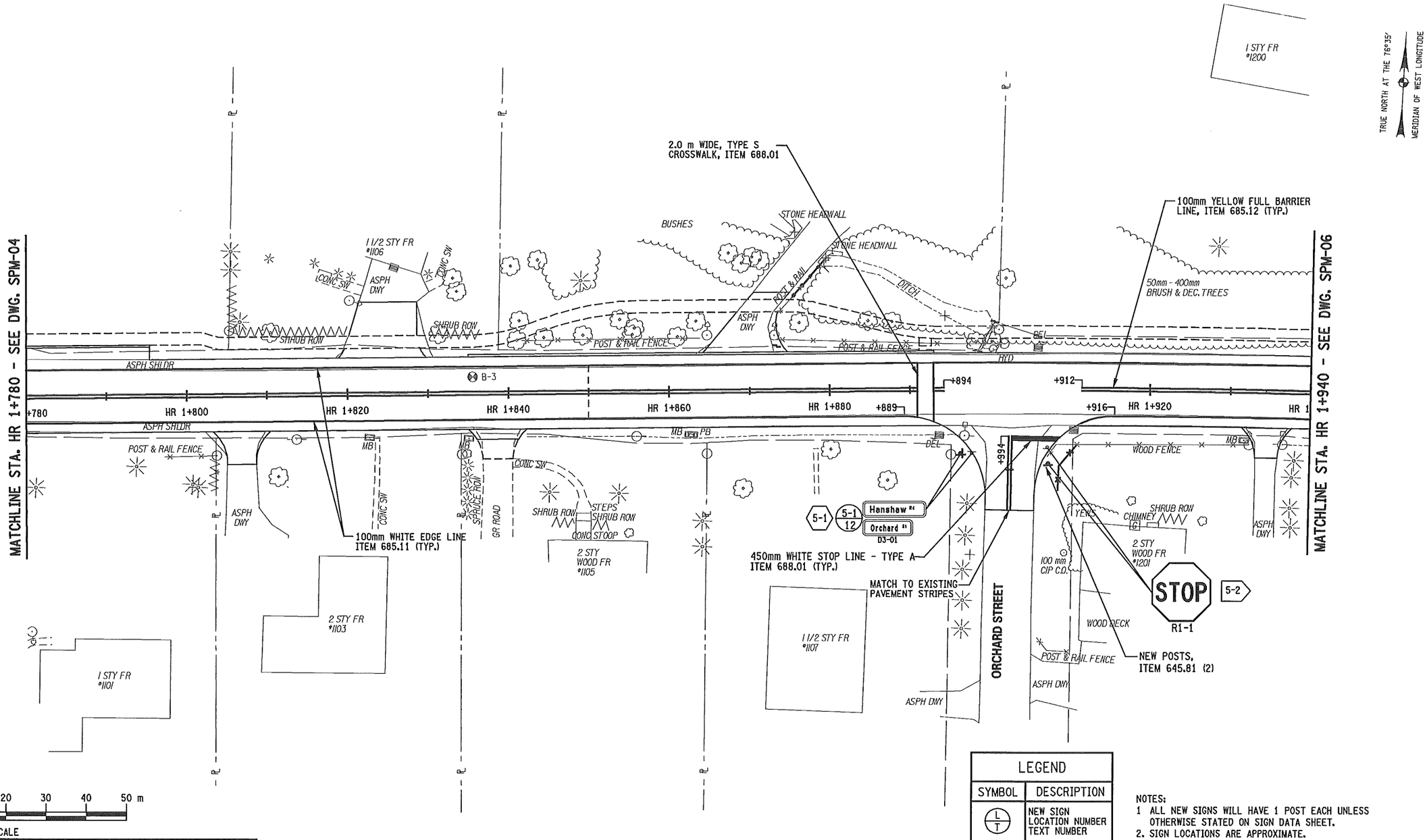


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| PREPARED BY: ON: | ALTERED BY: ON: |
|---|---|
| STATE OF NEW YORK · MARK RAYMOND BUTCHER · 076249 · LICENSED PROFESSIONAL ENGINEER · 5-28-2013 | |

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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-5
SHEET NO. 101 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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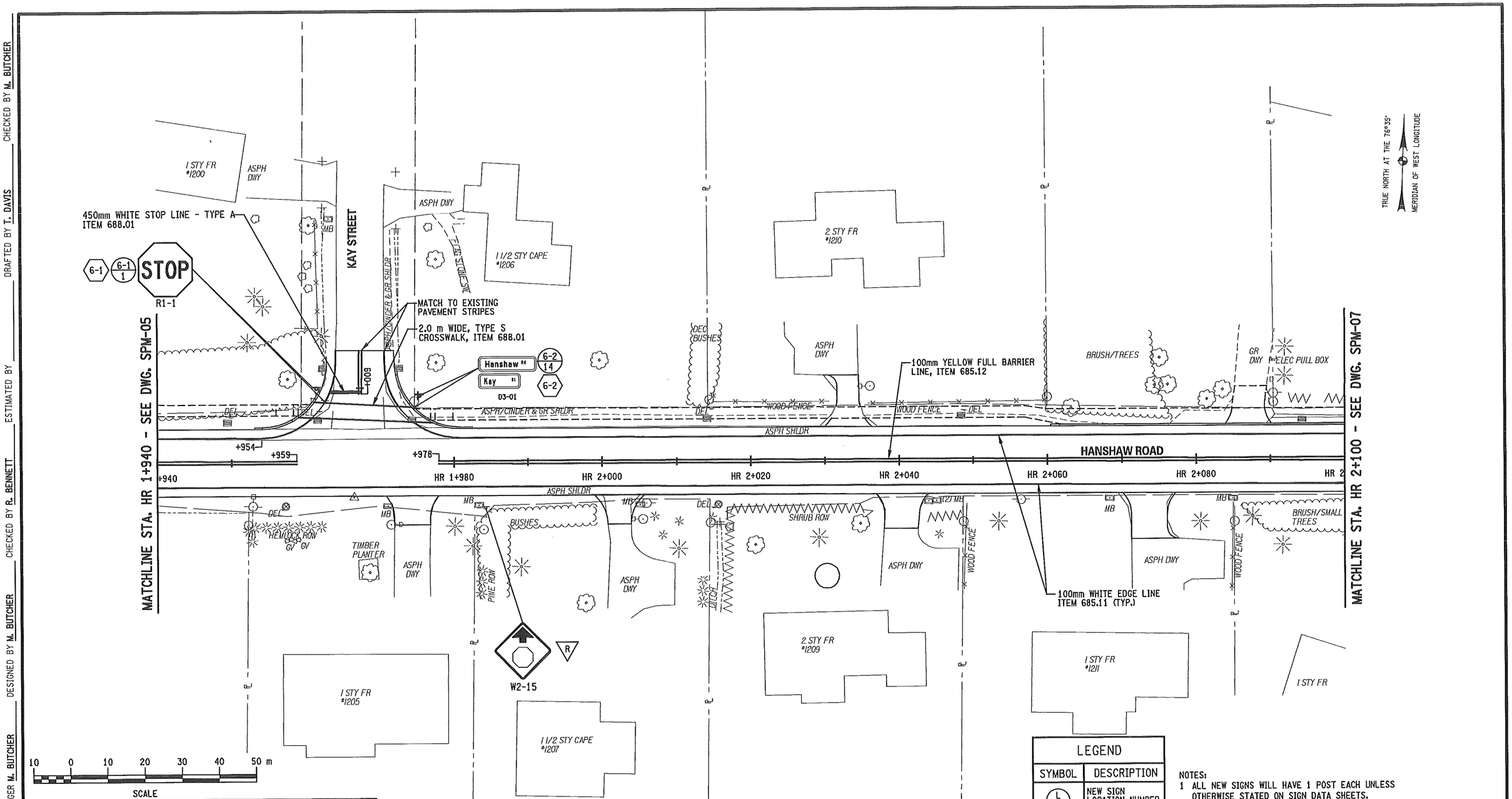


| LEGEND | |
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DESCRIPTION OF WORK:

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

SIGN LOCATION PLANS

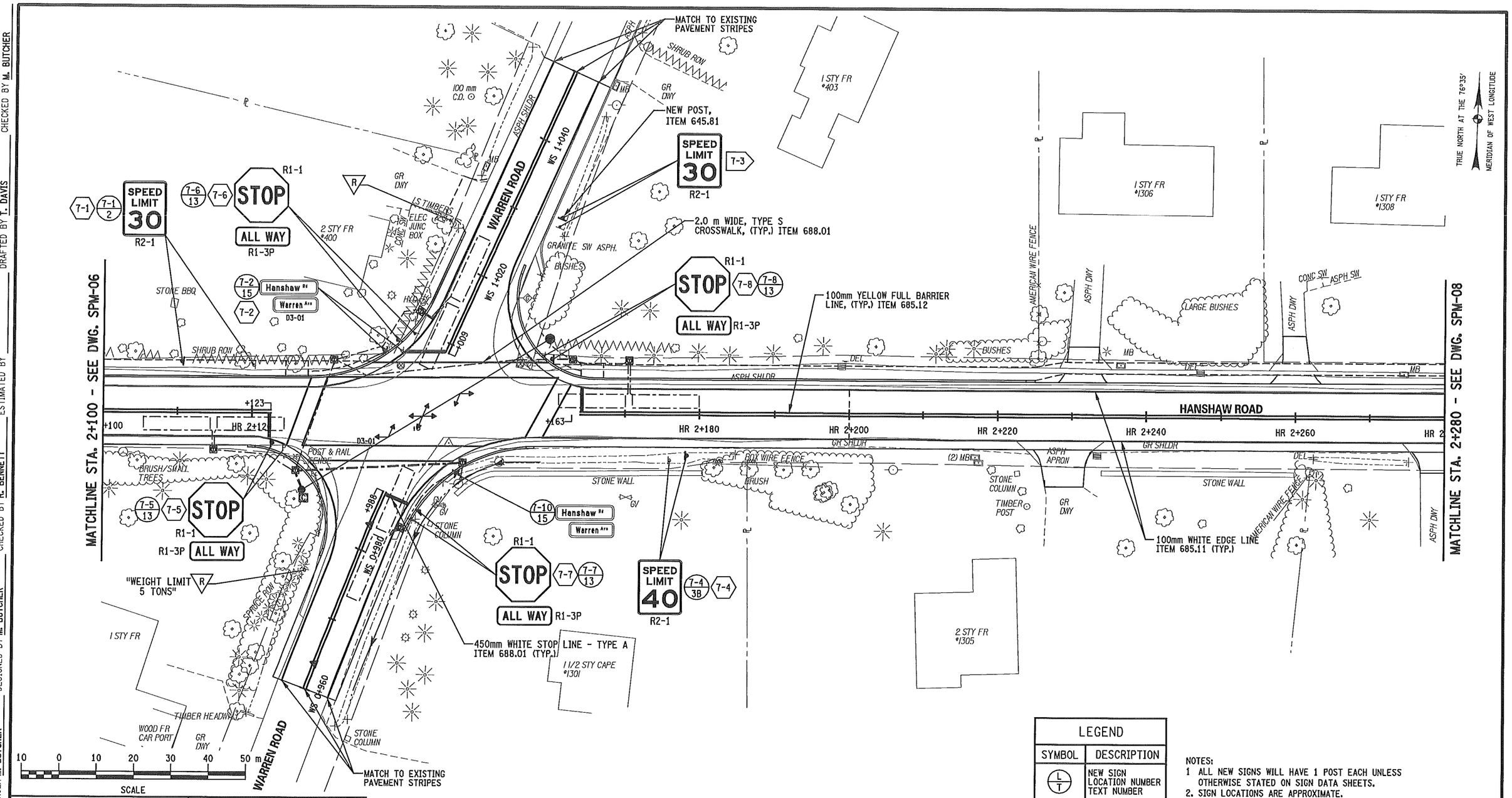
FISHER ASSOCIATES

DRAWING NO. SPM-6
SHEET NO. 102 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 |
| 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 | |

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:

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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
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SIGN LOCATION PLANS

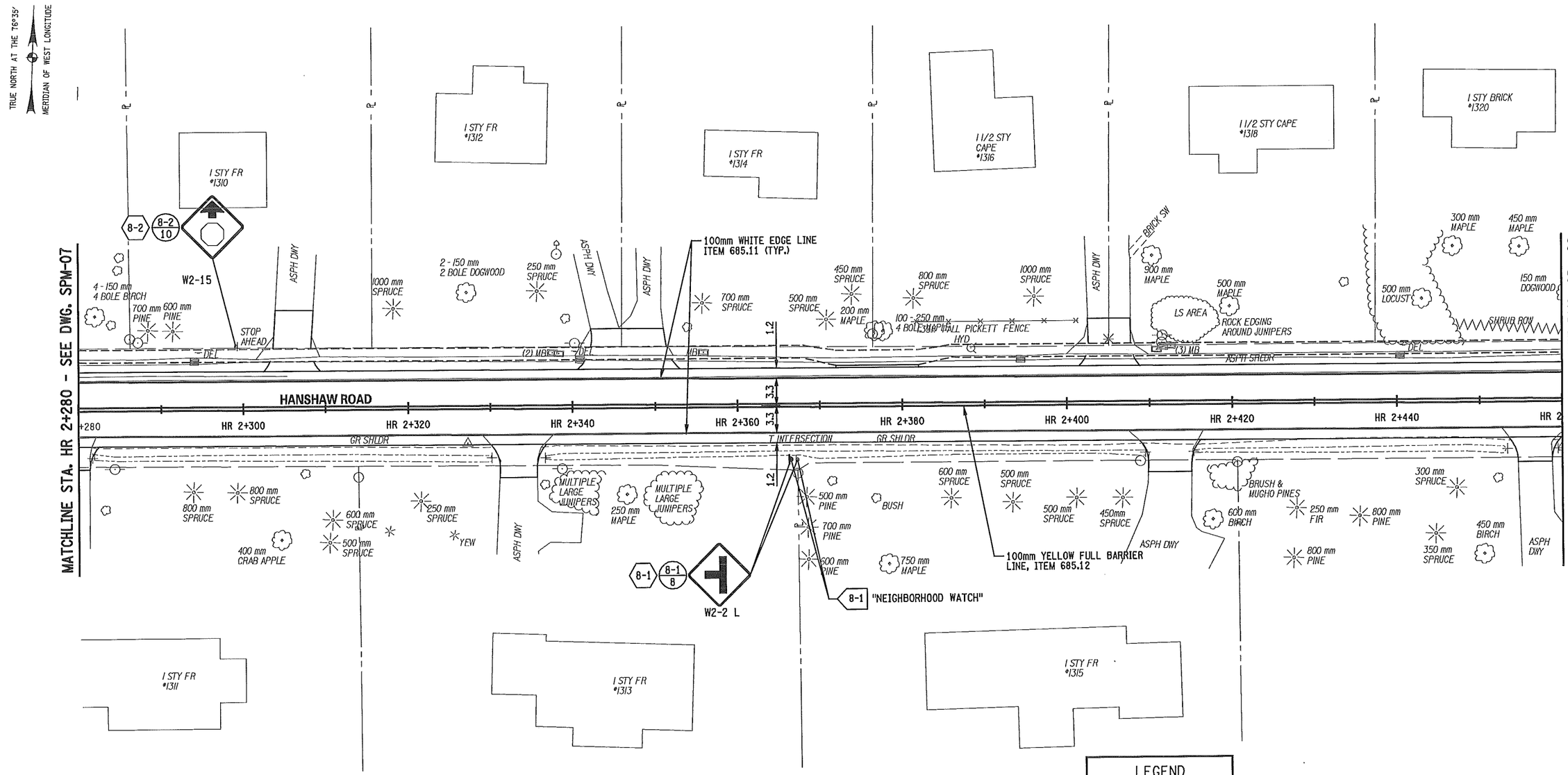
FISHER ASSOCIATES

DRAWING NO. SPM-7
SHEET NO. 103 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 |
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DESCRIPTION OF WORK:

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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-8
SHEET NO. 104 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 |
| L / T | NEW SIGN LOCATION NUMBER TEXT NUMBER |
| L | SIGN REMOVAL |
| L | RELOCATE TO POSITION SHOWN |
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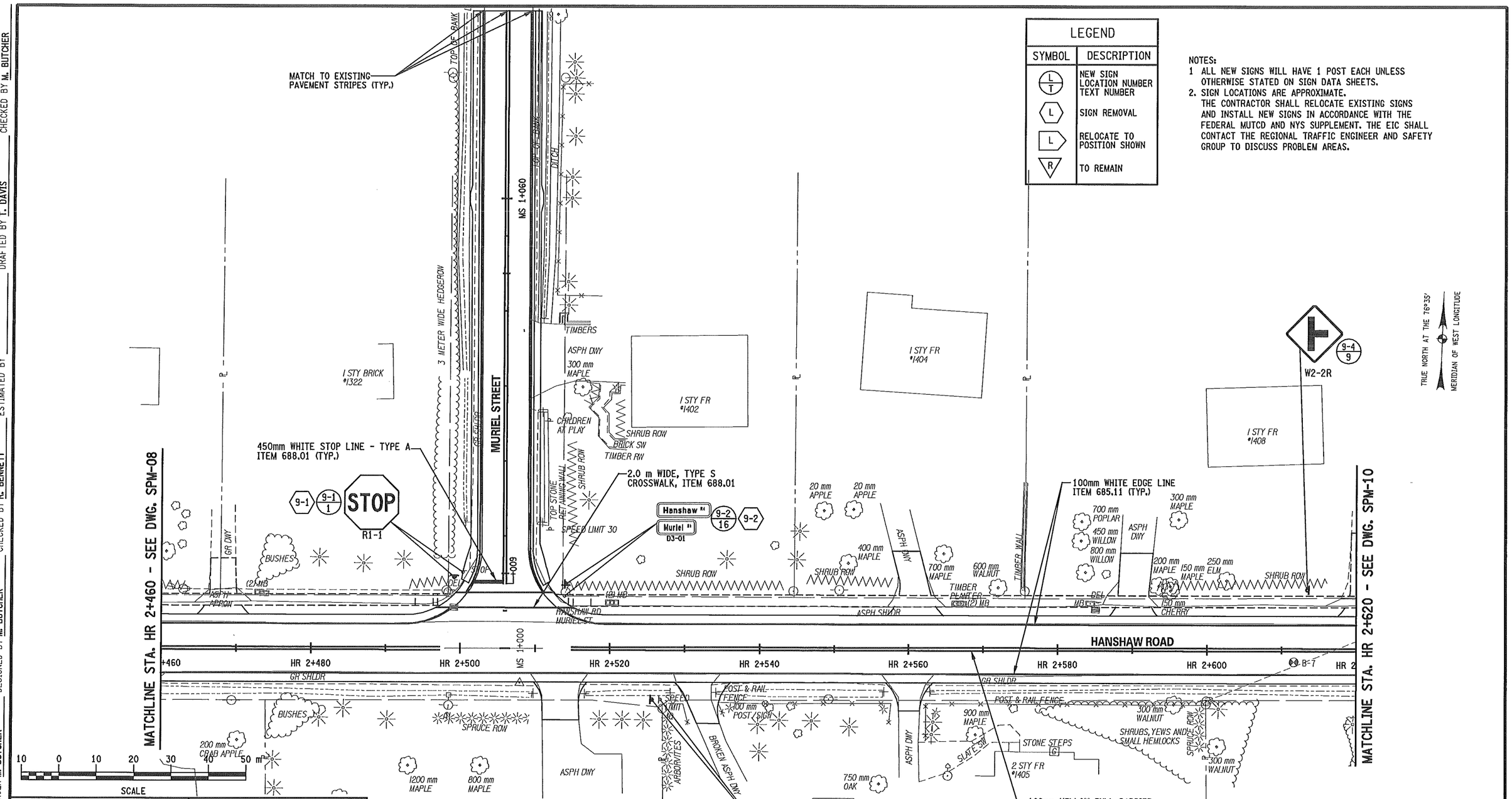


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PREPARED BY:
ON:

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

SIGN LOCATION PLANS

FISHERASSOCIATES

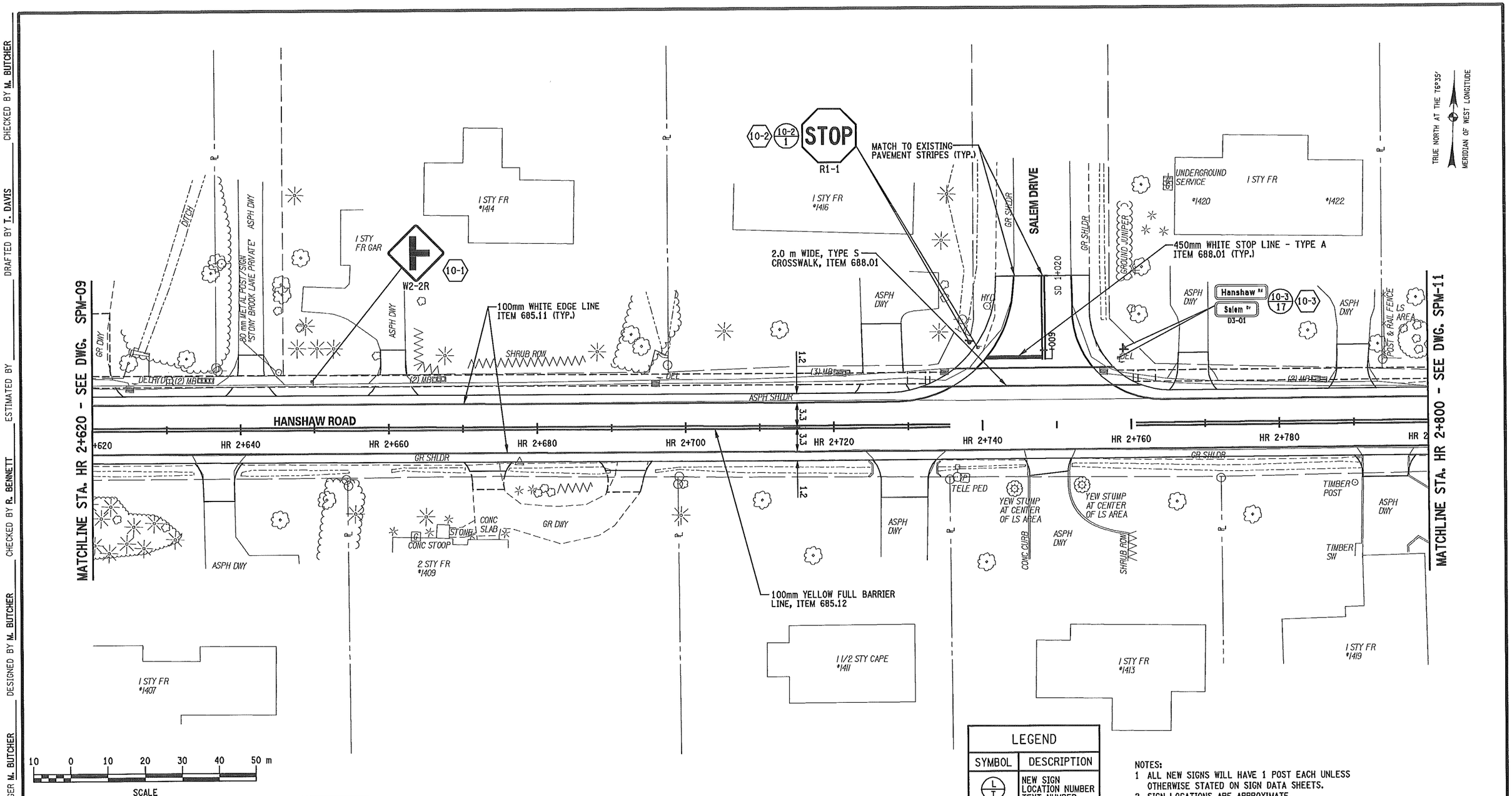
DRAWING NO. SPM-9
SHEET NO. 105 OF 130

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 R. BENNETT ESTIMATED BY

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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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

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ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN LOCATION PLANS

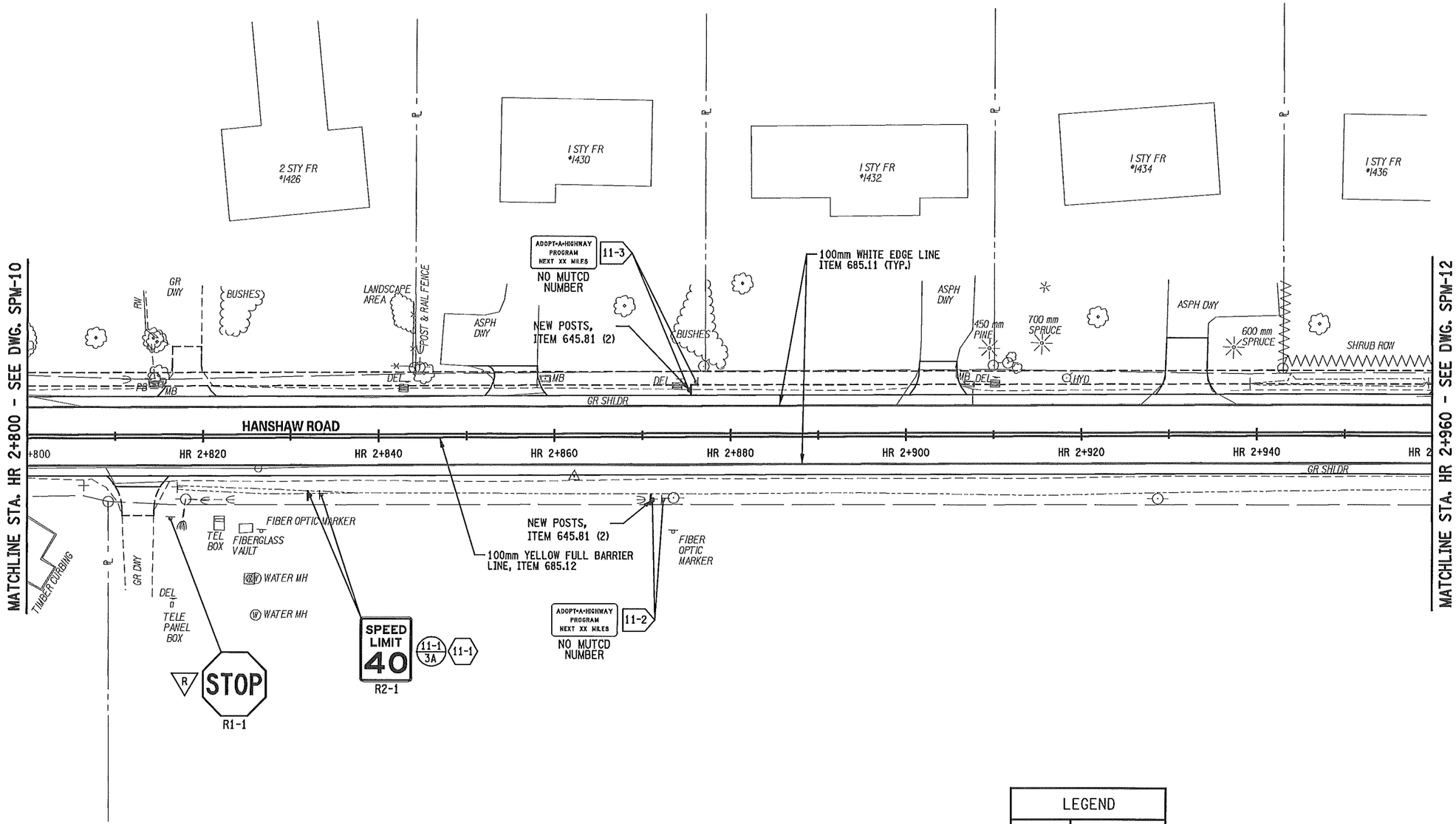
FISHER ASSOCIATES

DRAWING NO. SPM-10
SHEET NO. 106 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 |
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| L | SIGN REMOVAL |
| L | RELOCATE TO POSITION SHOWN |
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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
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PS&E DATE
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BRIDGES

CULVERTS

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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
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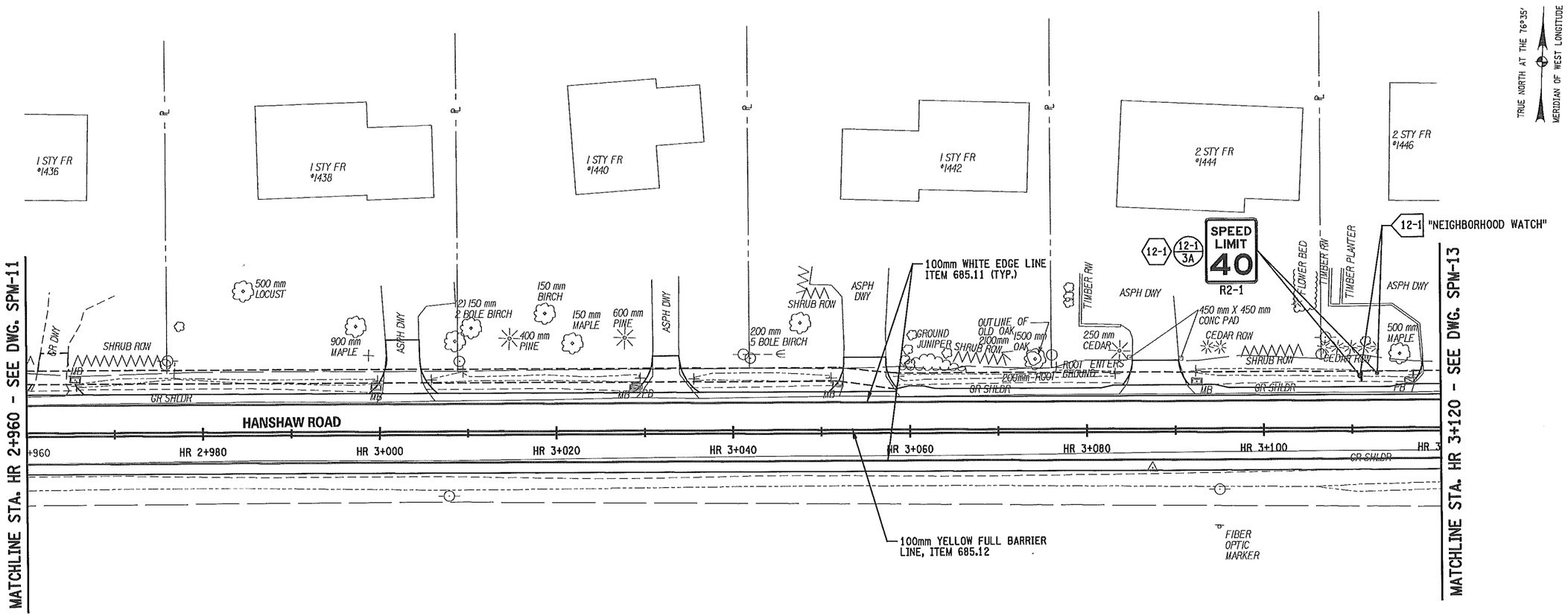


10 0 10 20 30 40 50 m

SCALE

| 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

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PS&E DATE
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FISHERASSOCIATES

DRAWING NO. SPM-12
SHEET NO. 108 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
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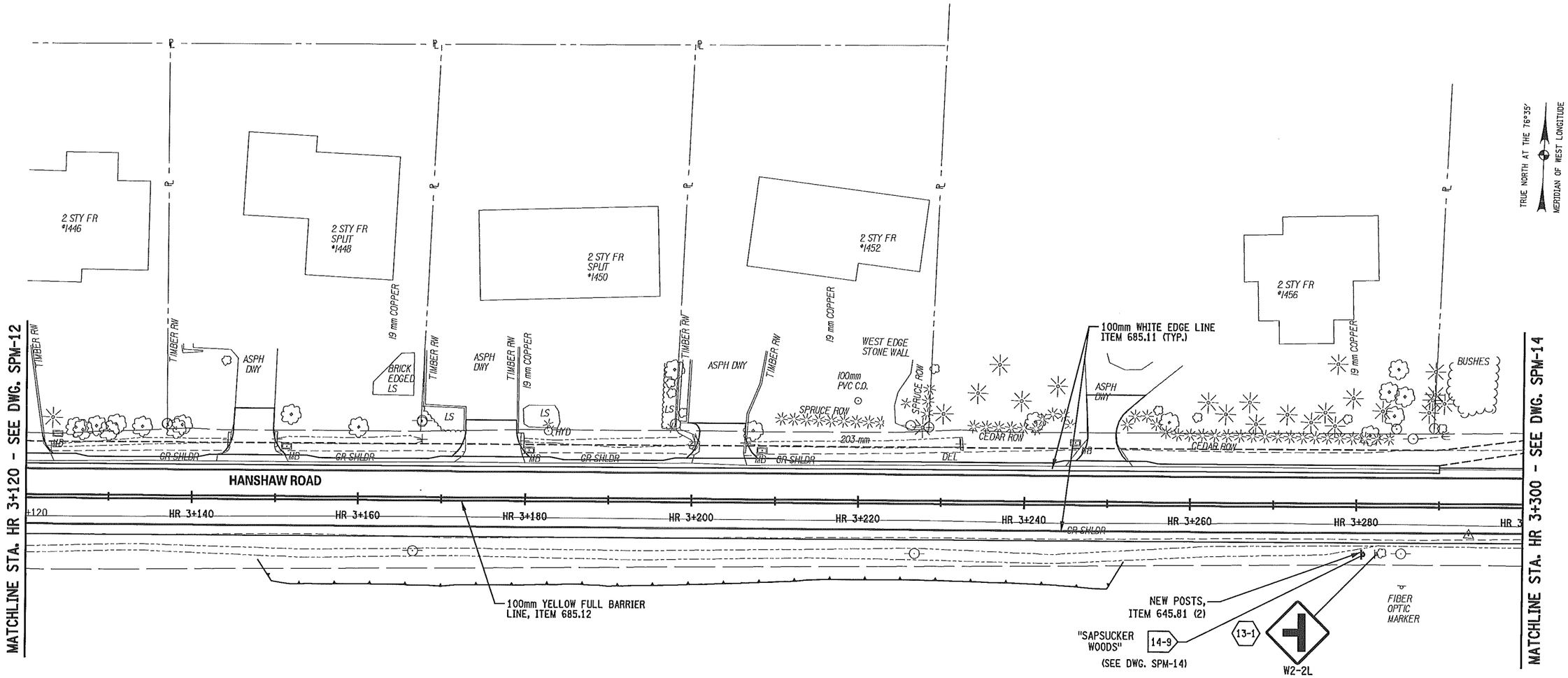


10 0 10 20 30 40 50 m

SCALE

| 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
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FISHERASSOCIATES

DRAWING NO. SPM-13
SHEET NO. 109 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 R. BENNETT CHECKED BY M. BUTCHER

FILE NAME = DGN⊕SPEC
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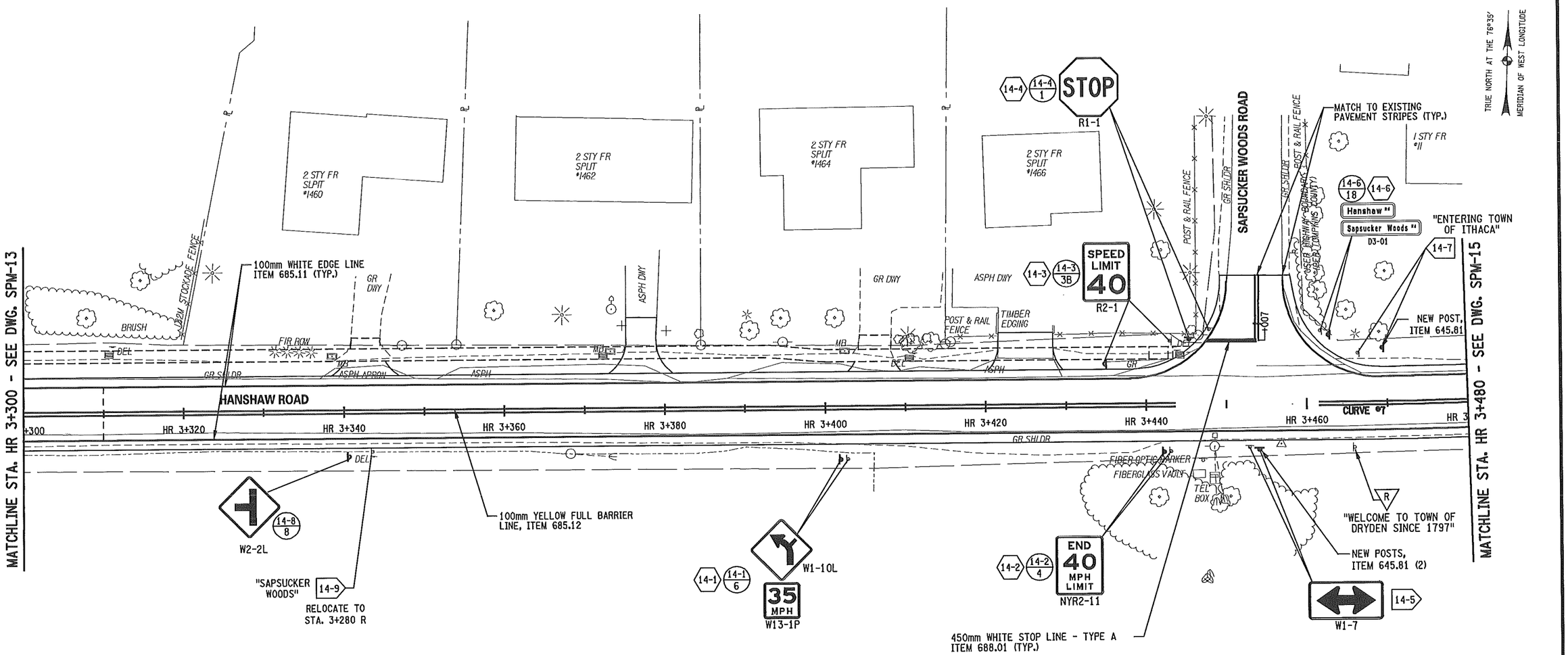


10 0 10 20 30 40 50 m

SCALE

## LEGEND

| SYMBOL | DESCRIPTION |
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TOWN OF ITHACA
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SHEET NO. 110 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
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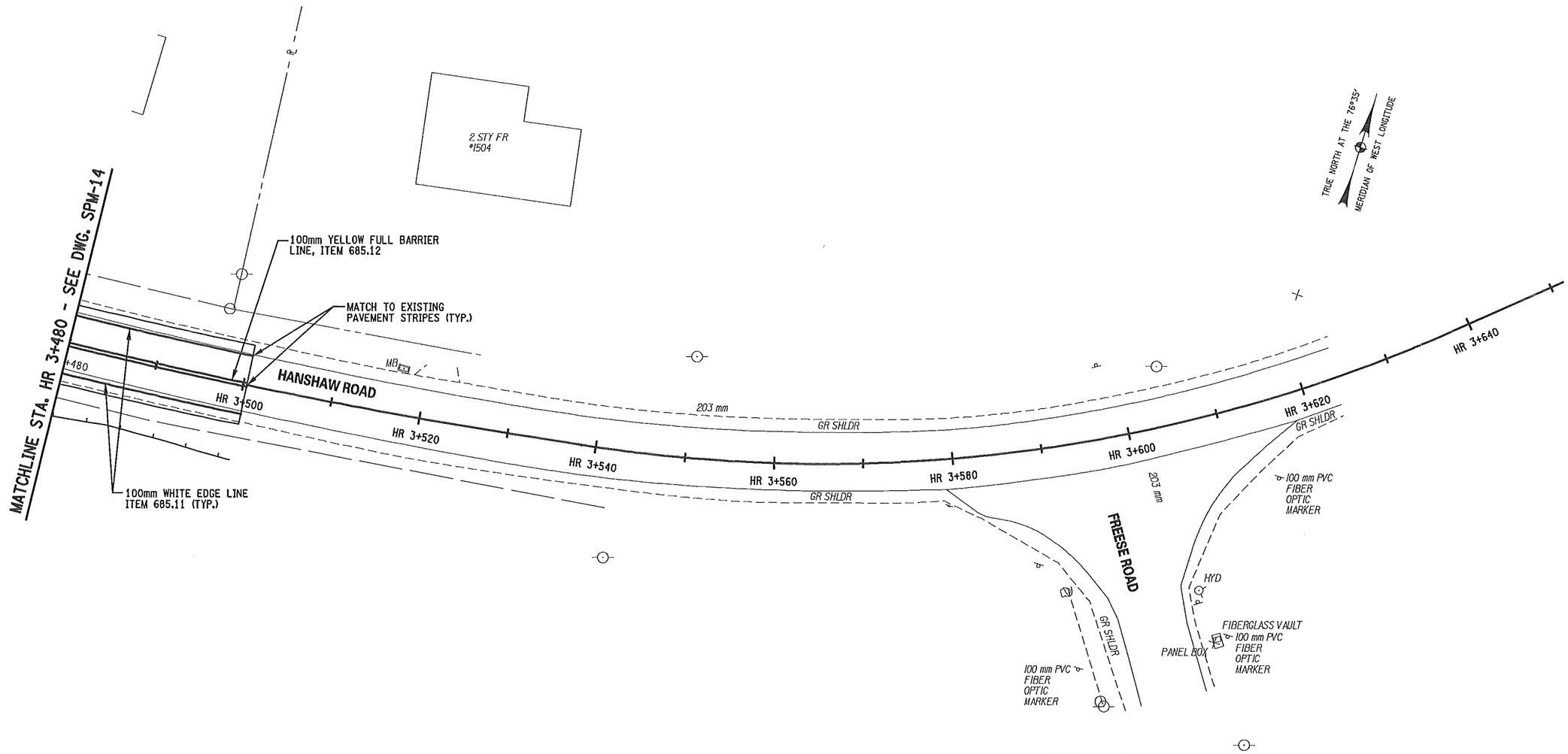


10 0 10 20 30 40 50 m

SCALE

## LEGEND

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

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RECONSTRUCTION OF HANSHAW ROAD
COUNTY ROUTE 109

TOWN OF ITHACA
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SIGN LOCATION PLANS

FISHER ASSOCIATES

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

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 |
|---|---|---|---|---|---|---|---|
| 1 | 4-2, 4-4, 6-1, 9-1, 10-2, 14-4 (6) | 645.5202 | 0.810 m² | 4.860 m² | STOP 900 X 900 | R1-1 | GR MTD |
| | | 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 | |

| TEXT NUMBER | LOCATION NUMBER | ITEM NUMBER | PAYMENT FACTOR | TOTAL QUANTITY | TEXT WxH (mm) | M.U.T.C.D. NUMBER | MOUNT |
|---|---|---|---|---|---|---|---|
| 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 Ave / 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 Rd / 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
5-16-2013

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

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- 1
SHEET NO. 112 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

DOCUMENT NAME: $FILENAME$

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

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 | ESTIMATED BY ____ | CHECKED BY R. BENNETT

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 [1] | 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 |
| | | 645.81 | 1 EA | 1 EA | | | |
| 15 | 7-2, 7-10 [2] | 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 |
| | | 645.81 | 1 EA | 2 EA | | | |
| 16 | 9-2 [1] | 645.5101 | 0.570 $m^2$ | 0.570 $m^2$ | 800 x 200 Hanshaw Rd / Hurlel St 625 x 200 | D3-01 | GR MTD B-B |
| | | 645.81 | 1 EA | 1 EA | | | |
| 17 | 10-3 [1] | 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 |
| | | 645.81 | 1 EA | 1 EA | | | |
| 18 | 14-6 [1] | 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 |
| | | 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

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:

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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.

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
5-28-2013

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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

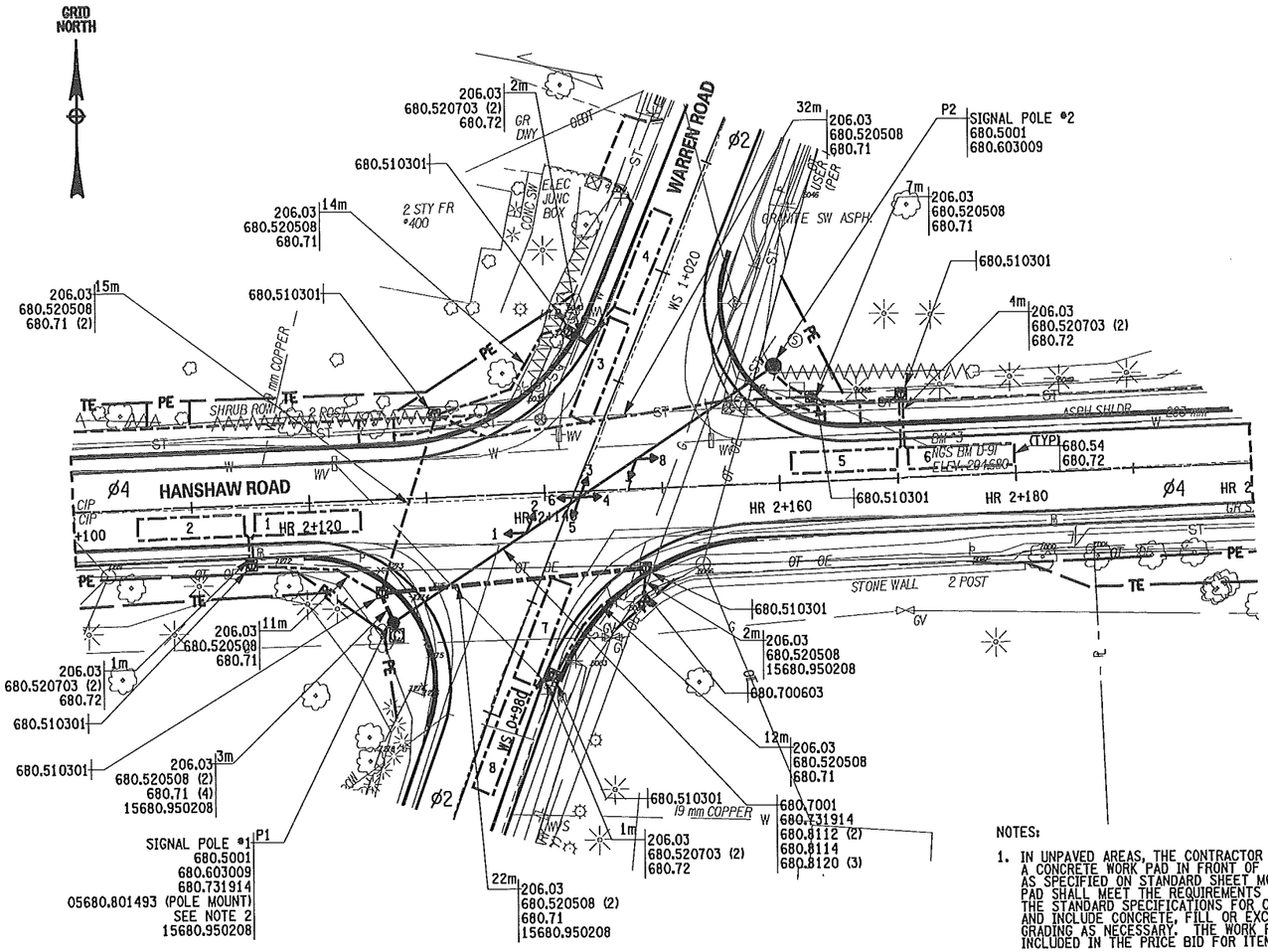
ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

SIGN TEXT DATA SHEETS

FISHERASSOCIATES

DRAWING NO. SDS- 2
SHEET NO. 113 OF 130

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3




| 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

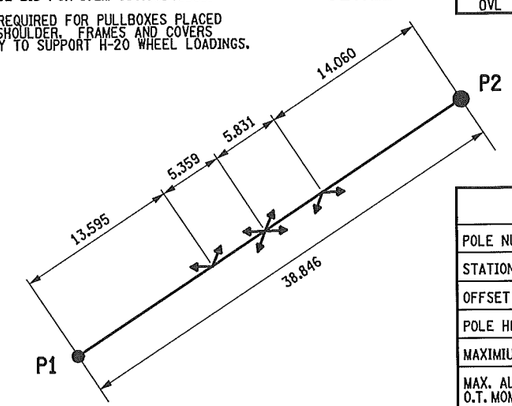
| OPERATIONS LEGEND | | | | | |
|---|---|---|---|---|---|
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
| R | CIRCULAR RED | Y | CIRCULAR YELLOW | G | CIRCULAR GREEN |
| R | LEFT RED ARROW | Y | LEFT YELLOW ARROW | G | LEFT GREEN ARROW |
| R | RIGHT RED ARROW | Y | RIGHT YELLOW ARROW | G | RIGHT GREEN ARROW |
| R | FLASHING RED | Y | FLASHING YELLOW | G | VERTICAL GREEN ARROW |
| R | CIRCULAR RED STROBE LIGHT | Y | FIBEROPTIC OR LED DUAL INDICATION LEFT ARROW | Y G | FIBEROPTIC OR LED DUAL INDICATION RIGHT ARROW |
| | 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

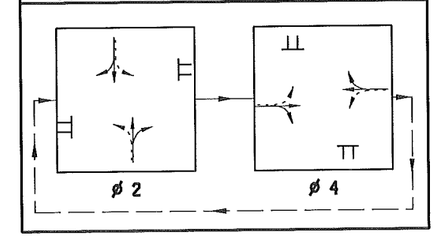
NOTES:

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.




SIGNAL HEAD LOCATION DETAIL

PREFERENTIAL PHASING SEQUENCE




| 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

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:

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RECONSTRUCTION OF HANSHAW ROAD
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VILLAGE OF CAYUGA HEIGHTS
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PIN 3753.25

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BRIDGES

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ALL DIMENSIONS IN m UNLESS OTHERWISE NOTED

TRAFFIC SIGNAL PLAN

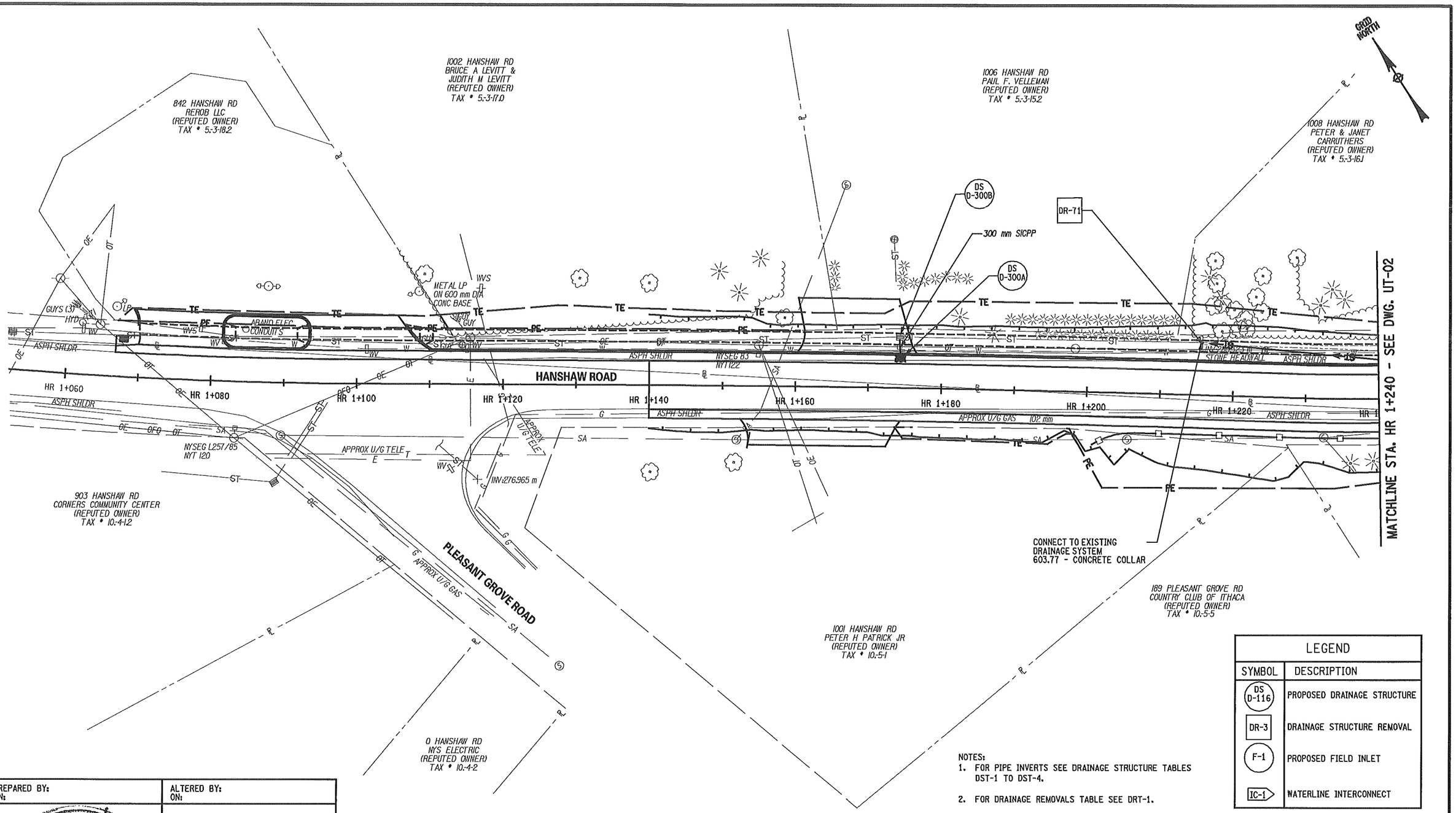
FISHERASSOCIATES

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
ESTIMATED BY
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

FISHERASSOCIATES

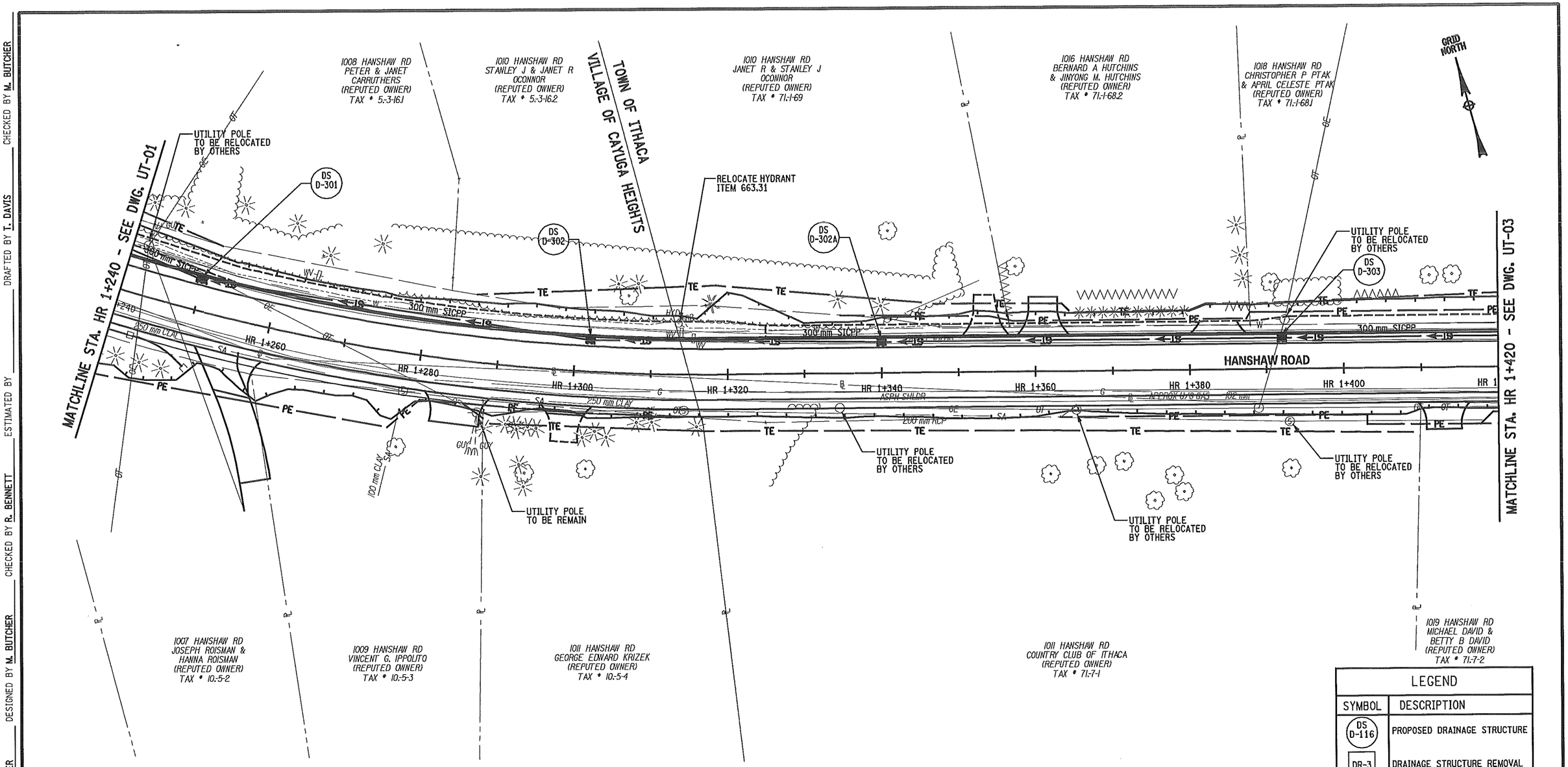
DRAWING NO. UT-01
SHEET NO. 115 OF 130

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. 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

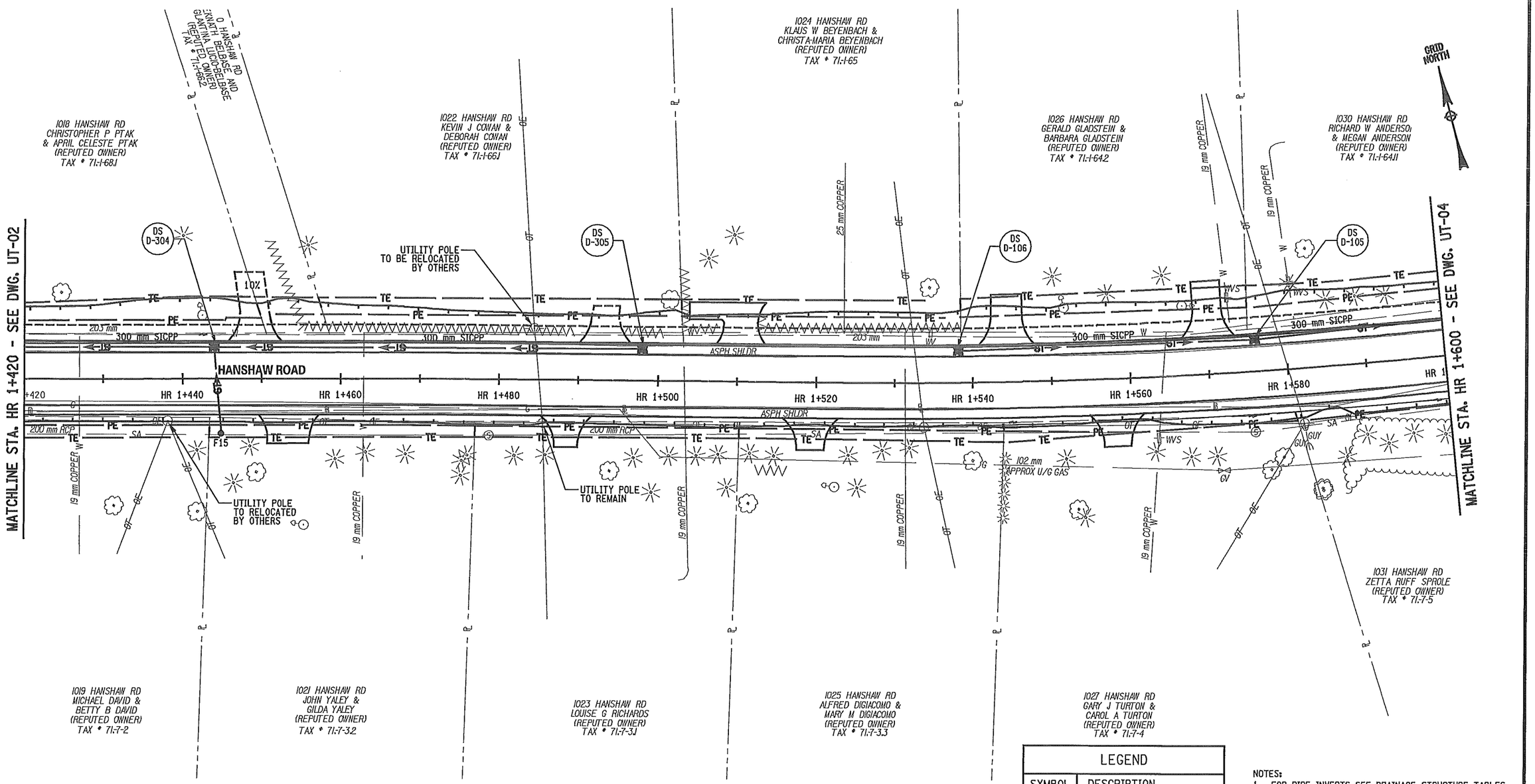
FISHERASSOCIATES

DRAWING NO. UT-02
SHEET NO. 116 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
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
3-28-2013

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

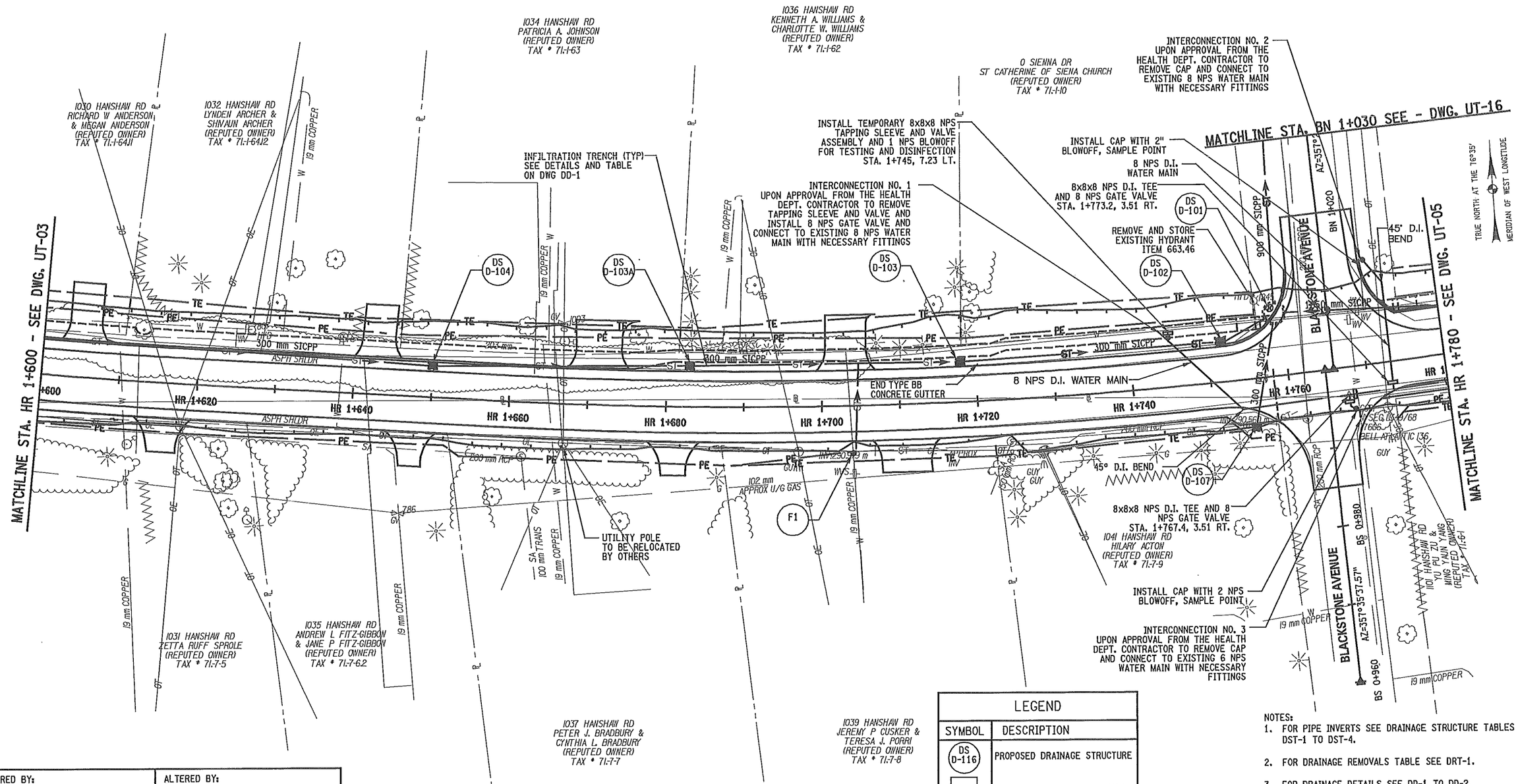
FISHER ASSOCIATES

DRAWING NO. UT-03
SHEET NO. 117 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:
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

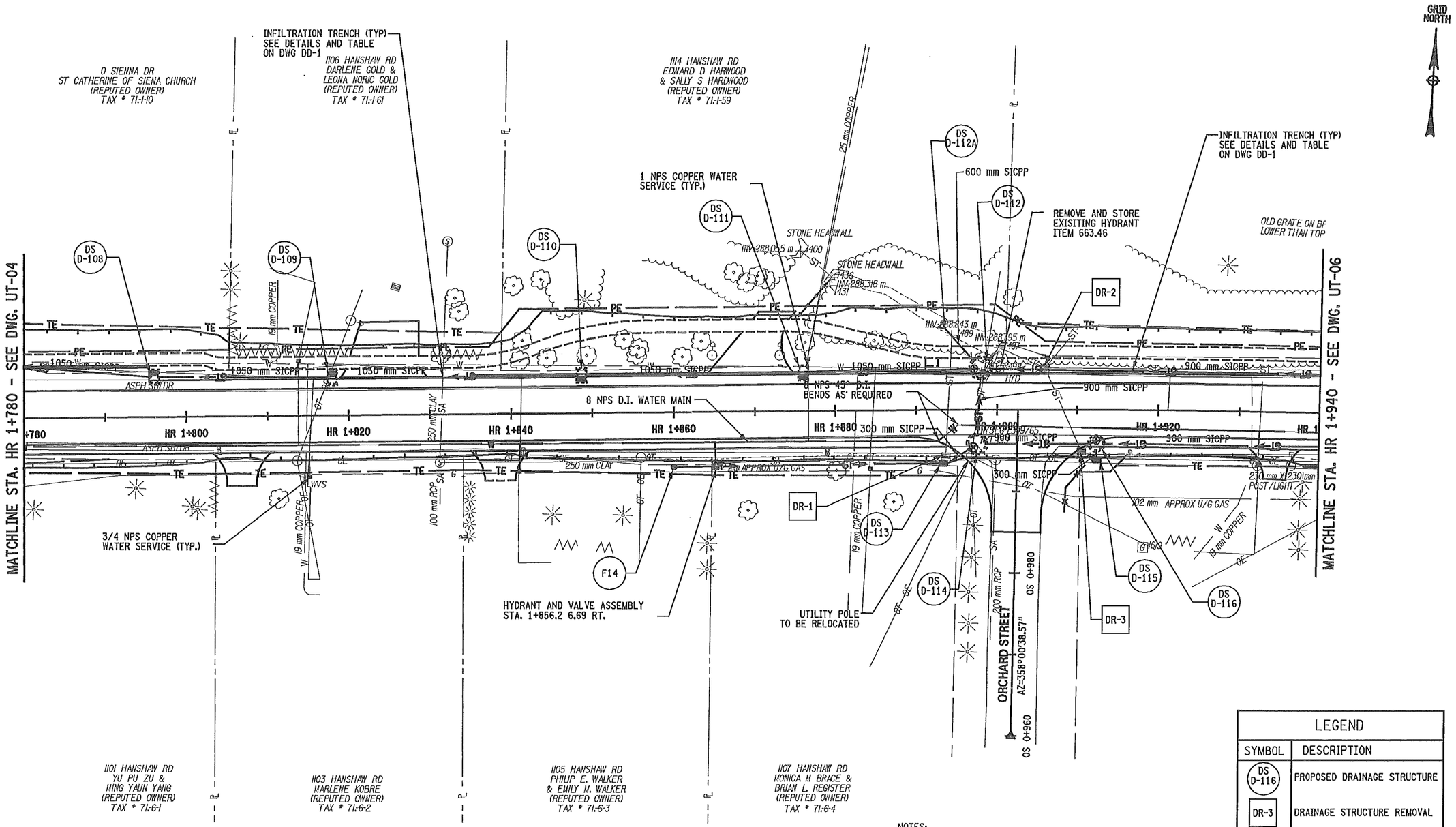
DRAWING NO. UT-04
SHEET NO. 118 OF 130

DOCUMENT NAME: 375325D_UTI.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 = 5/24/2013
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

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

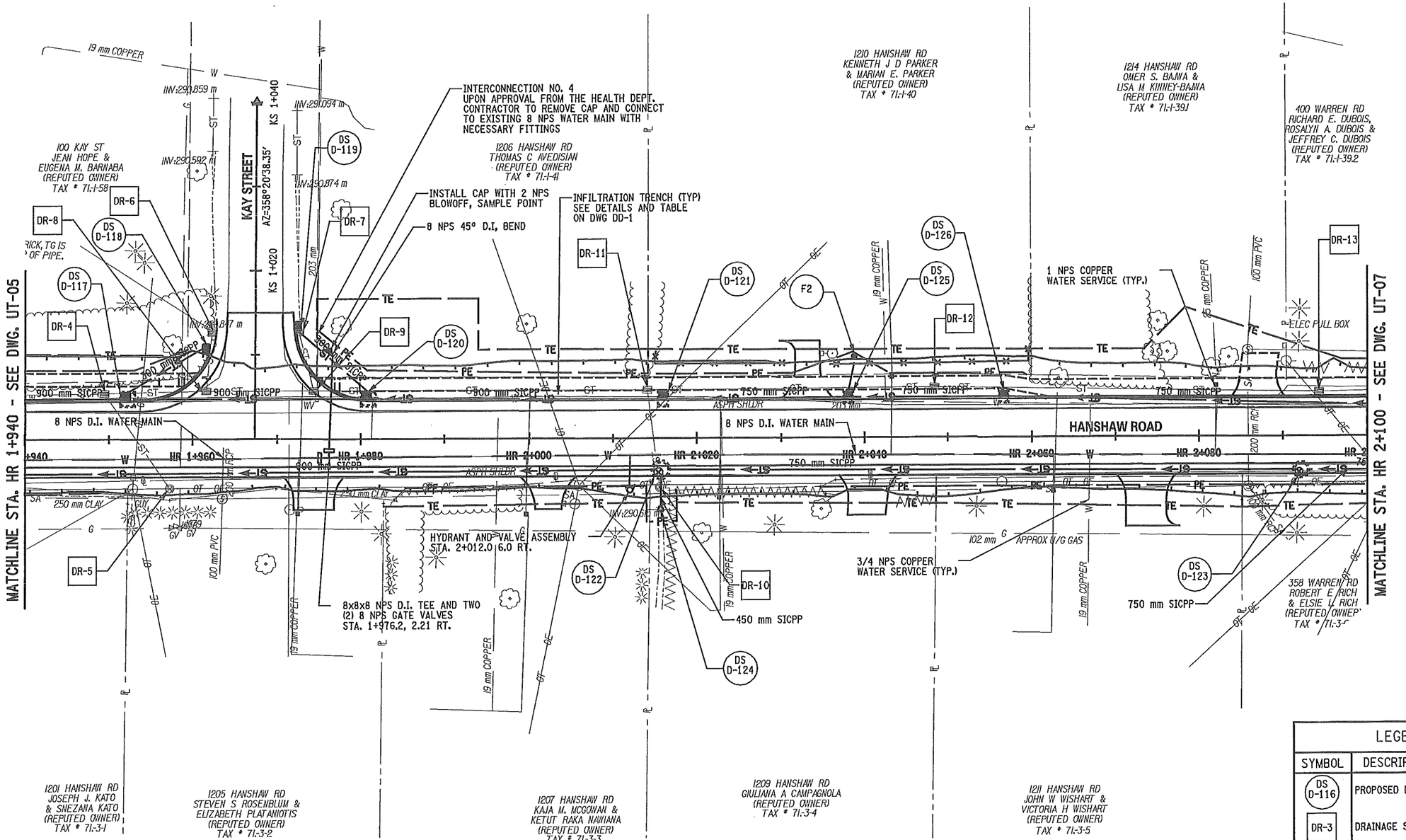
DRAWING NO. UT-05
SHEET NO. 119 OF 130

DOCUMENT NAME: 375325E_UTI.DGN

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 R. BENNETT ESTIMATED BY

FILE NAME = DGN@SPEC
DATE/TIME = 5/24/2013
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
LICENSED PROFESSIONAL ENGINEER
076249
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
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

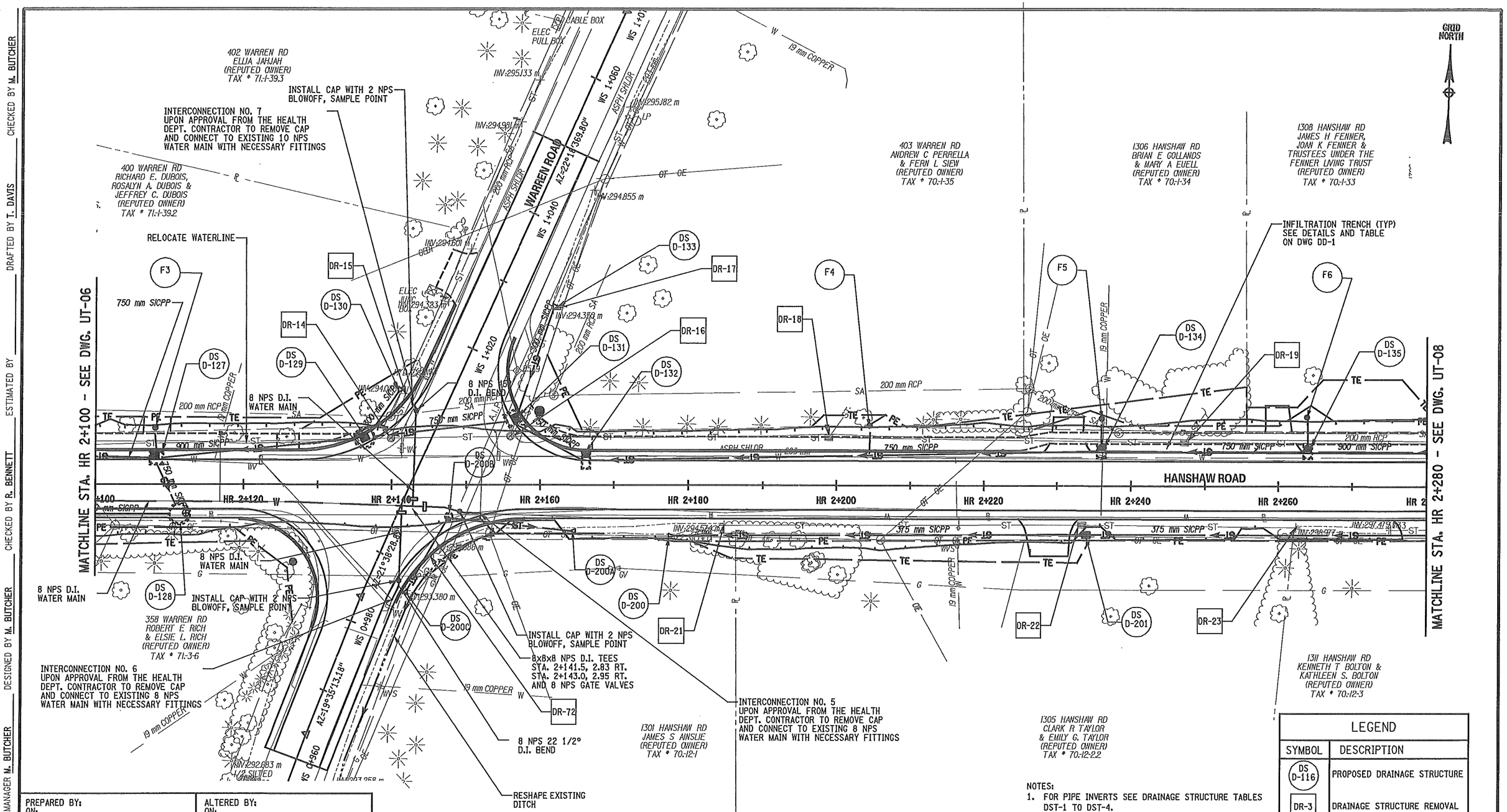
DRAWING NO. UT-06
SHEET NO. 120 OF 130

DOCUMENT NAME: 375325F_UTI.DGN

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 = 5/24/2013
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.

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

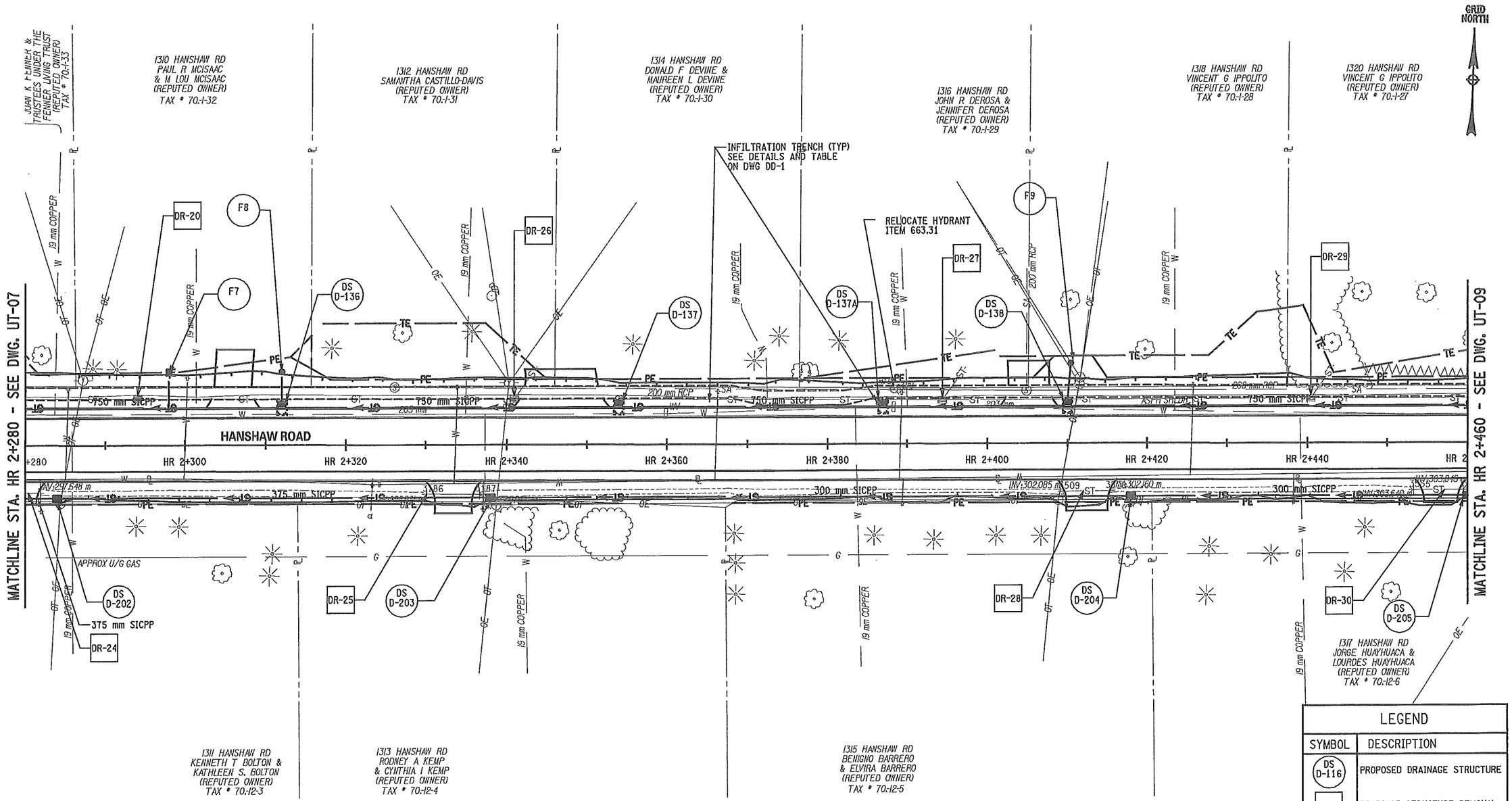
DRAWING NO. UT-07
SHEET NO. 121 OF 130

DOCUMENT NAME: 375325G_UTI.DGN

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 = 5/24/2013
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: |
|---|---|
| | |

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-08
SHEET NO. 122 OF 130

DOCUMENT NAME: ⊕FILENAME⊕

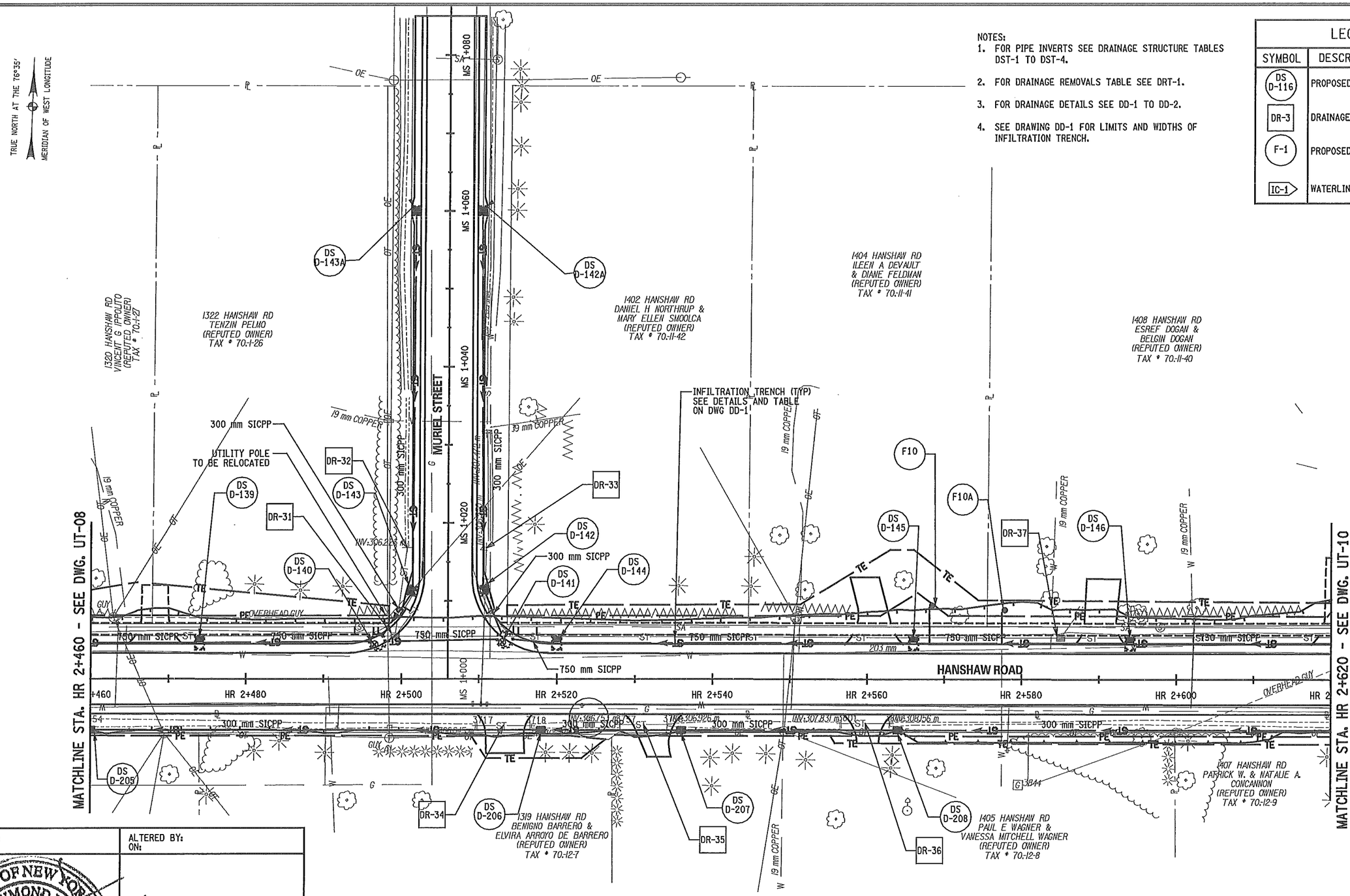
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 3

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 = 5/24/2013
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 |




| 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

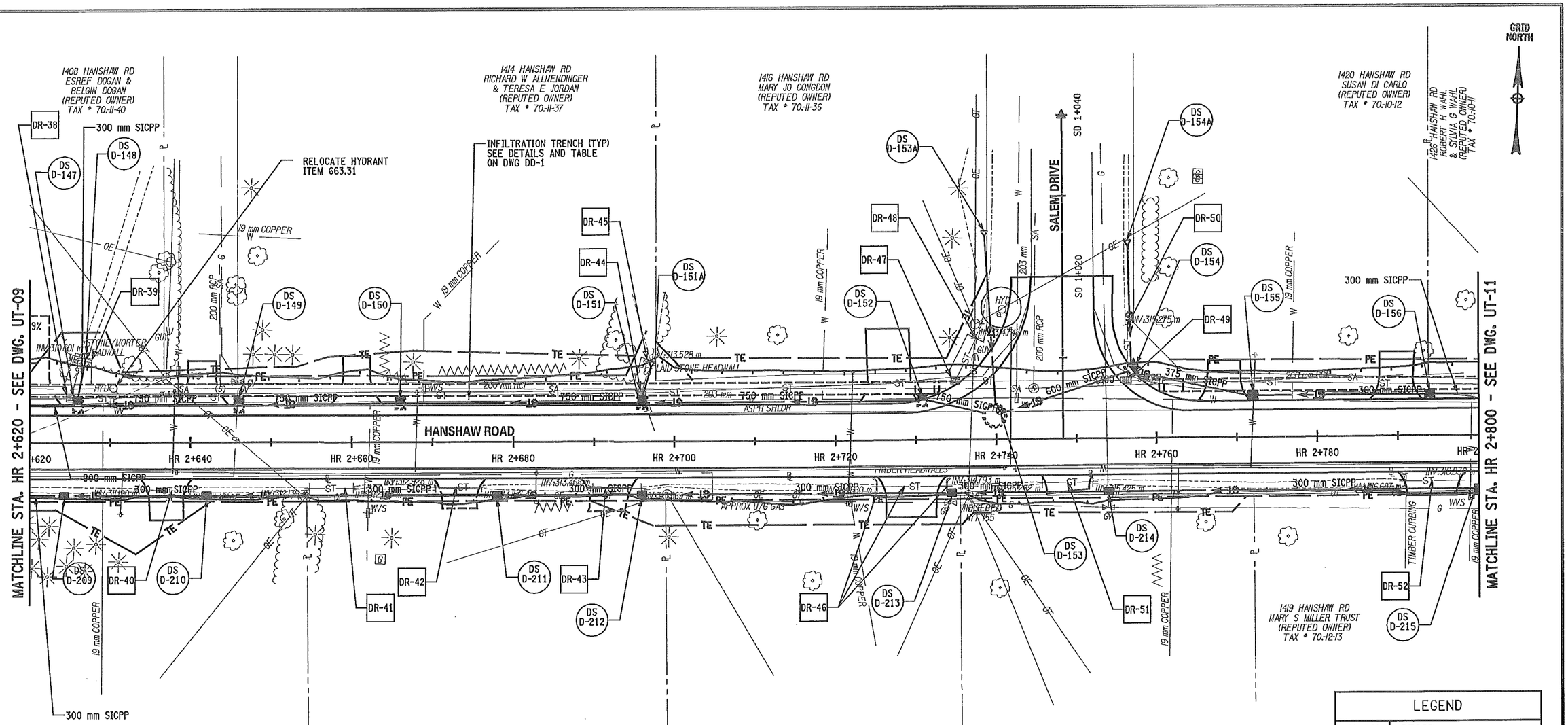
DRAWING NO. UT-09
SHEET NO. 123 OF 130

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 DRAFTED BY T. DAVIS ESTIMATED BY 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.
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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

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

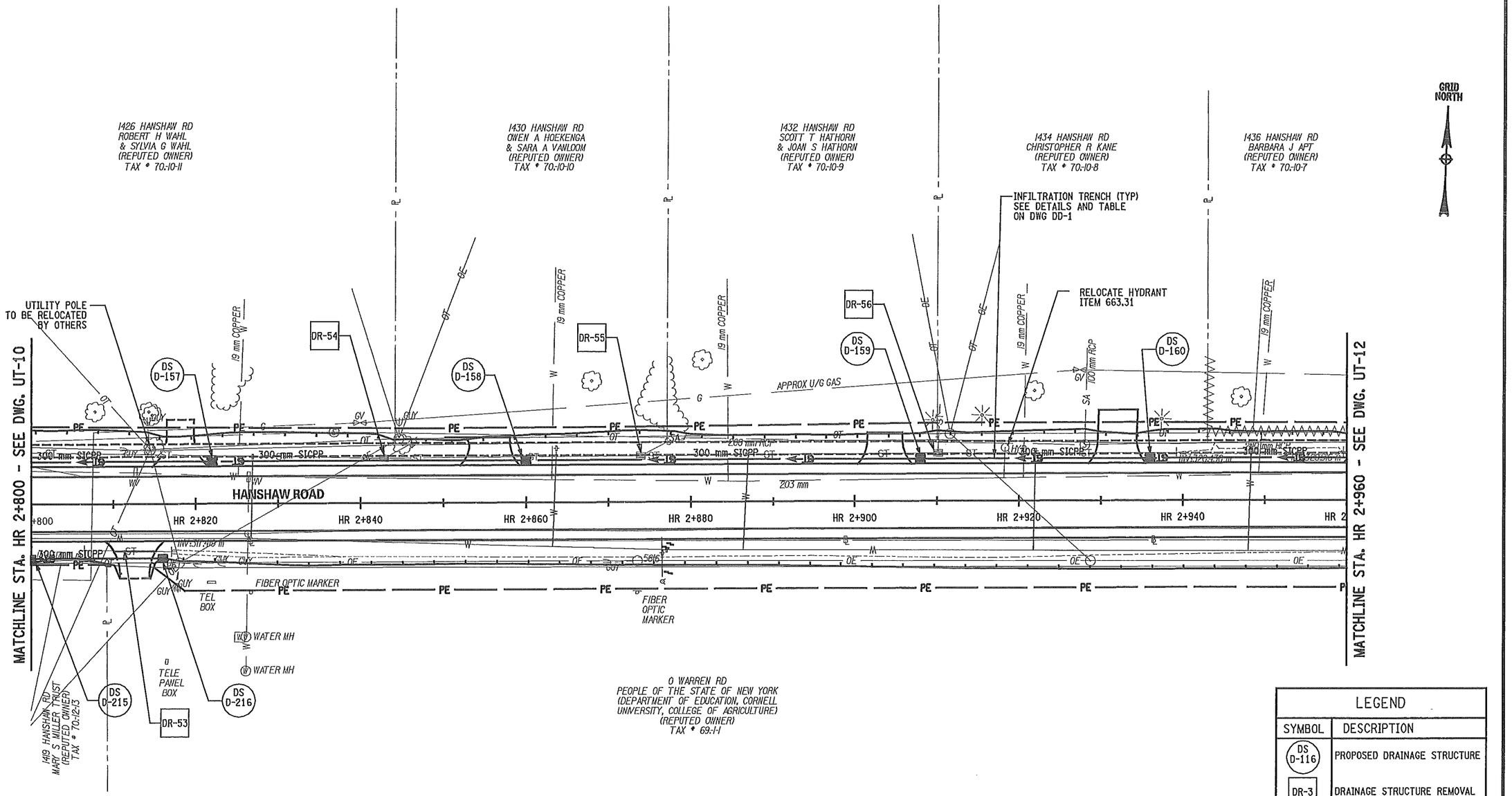
DRAWING NO. UT-10
SHEET NO. 124 OF 130

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 = 5/24/2013
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

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

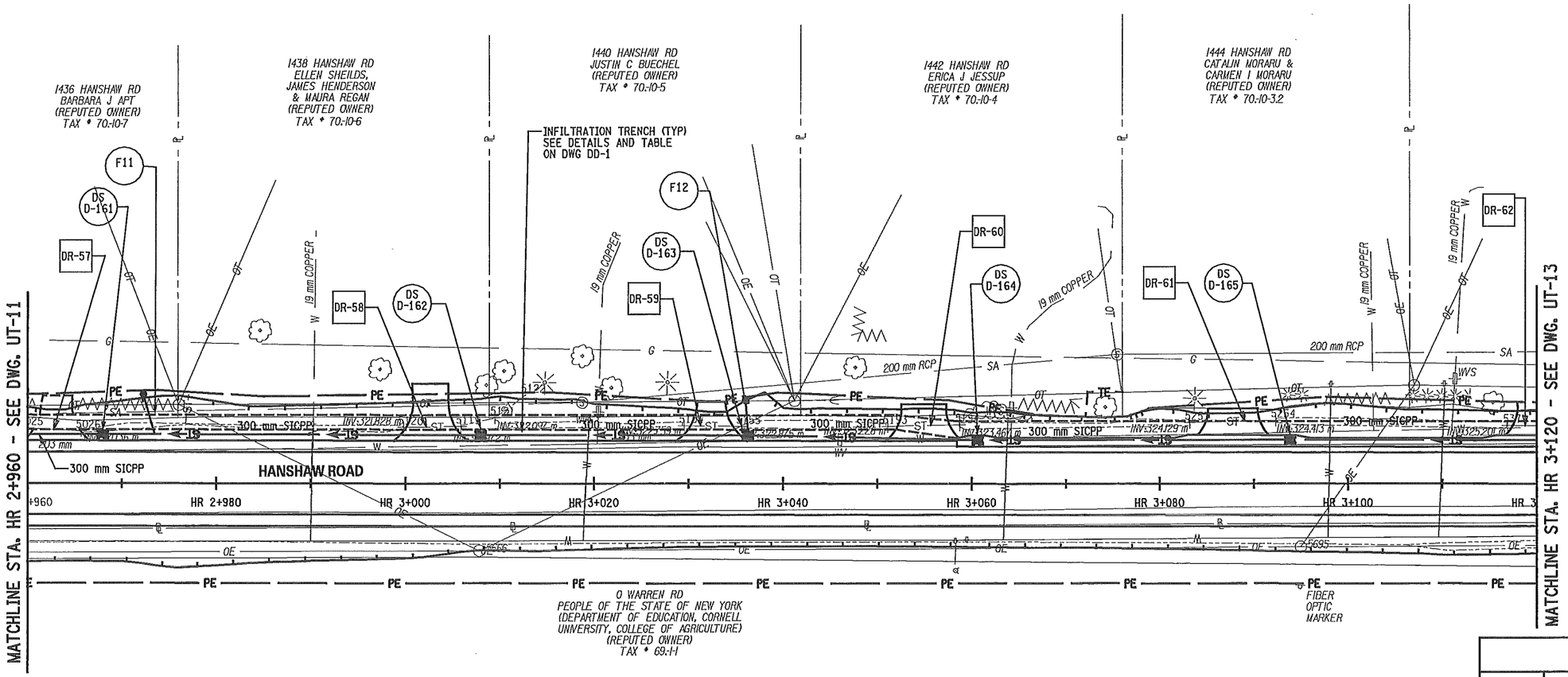
FISHERASSOCIATES

DRAWING NO. UT-11
SHEET NO. 125 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 = DGN4SPEC
DATE/TIME = 5/24/2013
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
5-16-2013

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

UTILITY PLANS

FISHERASSOCIATES

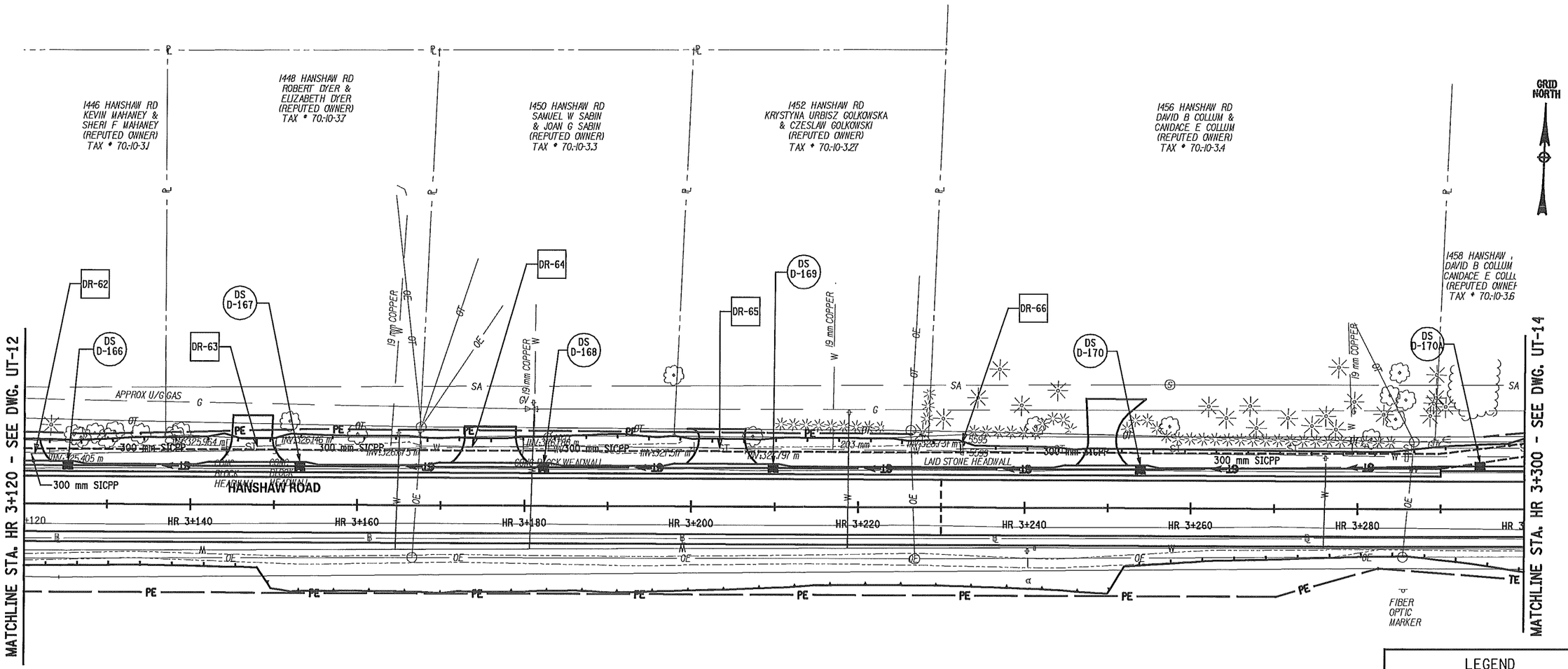
DRAWING NO. UT-12
SHEET NO. 126 OF 130

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:
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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

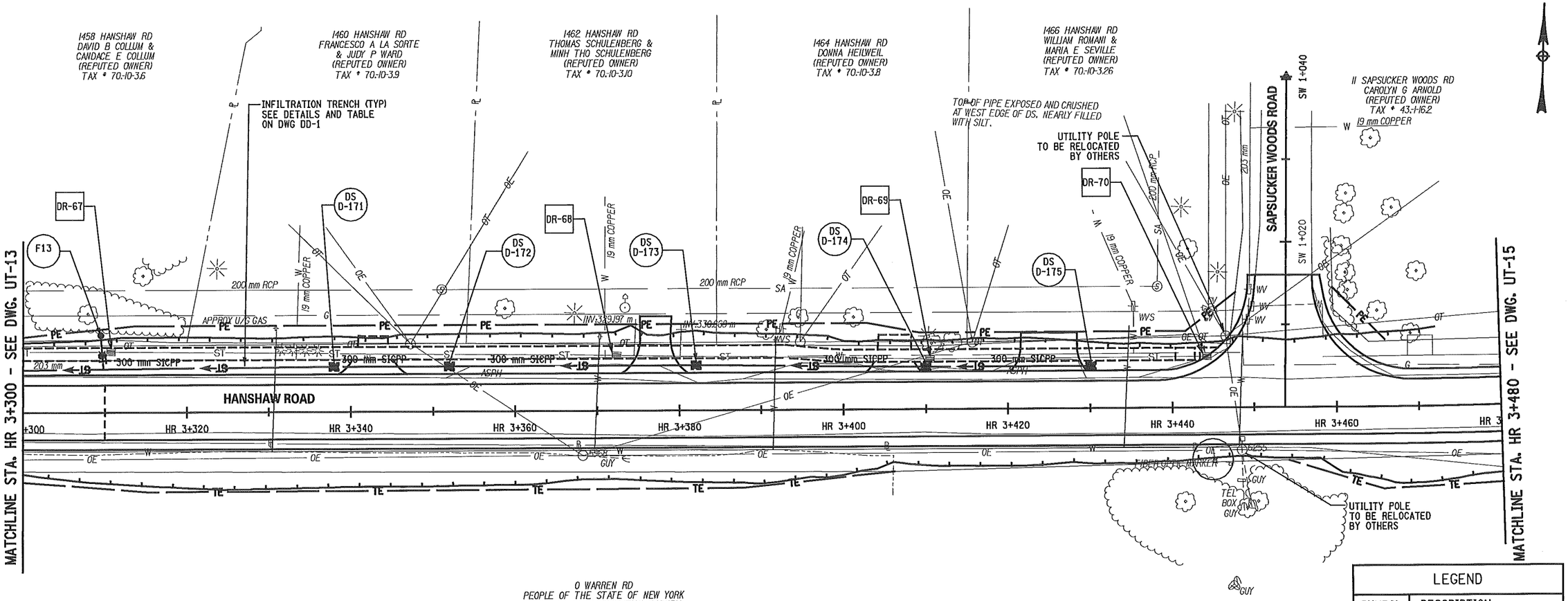
FISHERASSOCIATES

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 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 |

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

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

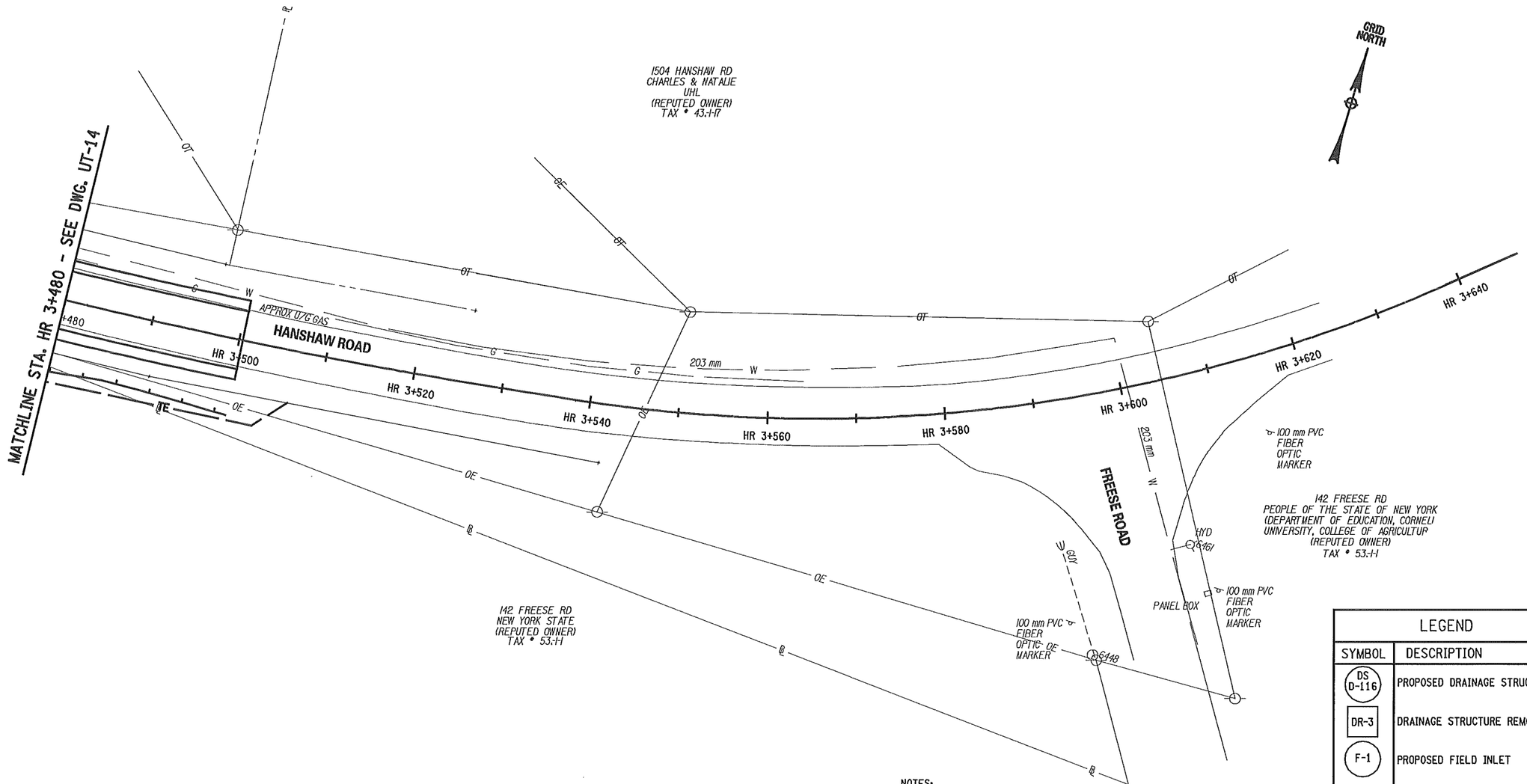
DRAWING NO. UT-14
SHEET NO. 128 OF 130

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. FOR PIPE INVERTS SEE DRAINAGE STRUCTURE TABLES DST-1 TO DST-4.
2. FOR DRAINAGE REMOVALS TABLE SEE DRT-1.
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| 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

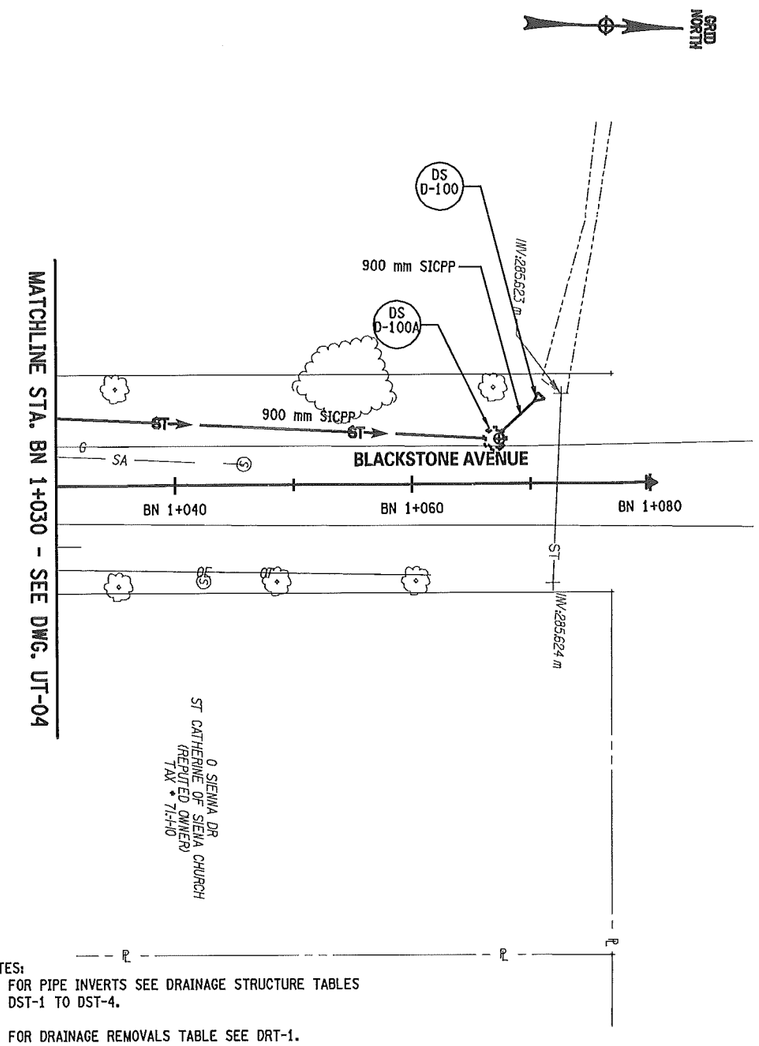
FISHER ASSOCIATES

DRAWING NO. UT-15
SHEET NO. 129 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.

## 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

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-16
SHEET NO. 130 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
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