

DIG SAFELY - NEW YORK
UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION
1-800-962-7962

TYPE OF CONSTRUCTION:
INSTALLATION OF DYNAMIC MESSAGE SIGNS (DMS), TRANSMIT VEHICLE DETECTORS,
AND CLOSED CIRCUIT TELEVISION CAMERAS (CCTV)

STANDARD SHEETS:
M203-1, M203-2, M209-1, M209-4, M209-6, M606-3, M606-5R1, M619-4R2,
M619-8, M619-10, M619-11, M619-12, M619-13, M619-70, M619-71, M645-72,
M645-76R1, M645-80R1, M646-4, M646-5, M670-1, M670-2, M680-4, M680-12,
M680-16

ALL METRIC UNITS

THESE PLANS WERE PREPARED IN METRIC UNITS. ALL WORK
CONTEMPLATED UNDER THIS CONTRACT IS TO BE GOVERNED BY AND IN
CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF
TRANSPORTATIONS "STANDARD SPECIFICATIONS - CONSTRUCTION AND
MATERIALS METRIC UNITS" ADOPTED JANUARY 2, 2002 EXCEPT AS
MODIFIED IN THESE PLANS AND BY THE PROPOSAL.

NOTES:

WARNING: IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR
ANY PERSON UNLESS ACTING UNDER THE DIRECTION OF A LICENSED
PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THESE PLANS IN ANY
WAY. IF ALTERATIONS TO THESE PLANS ARE REQUIRED, THE ALTERATIONS
SHALL BE MADE IN ACCORDANCE WITH ARTICLE 145 - SUBSECTION 7209
OF THE NEW YORK STATE EDUCATION LAW.

CHANGES MADE, IF ANY, TO THESE PLANS AND RELATED CONTRACT
DOCUMENTS SINCE COMPLETION BY THE CONSULTING ENGINEER MAY BE
DETERMINED BY COMPARISON WITH SUCH PREFINAL PLANS AND RELATED
DOCUMENTS FILED AT THE THRUWAY DESIGN OFFICE OR THOSE FILED AT
THE OFFICE OF THE CONSULTING ENGINEER.

SIGNATURES HEREON HAVE BEEN AFFIXED BY PERSONS ACTING IN
THEIR OFFICIAL CAPACITY AS INDICATED.

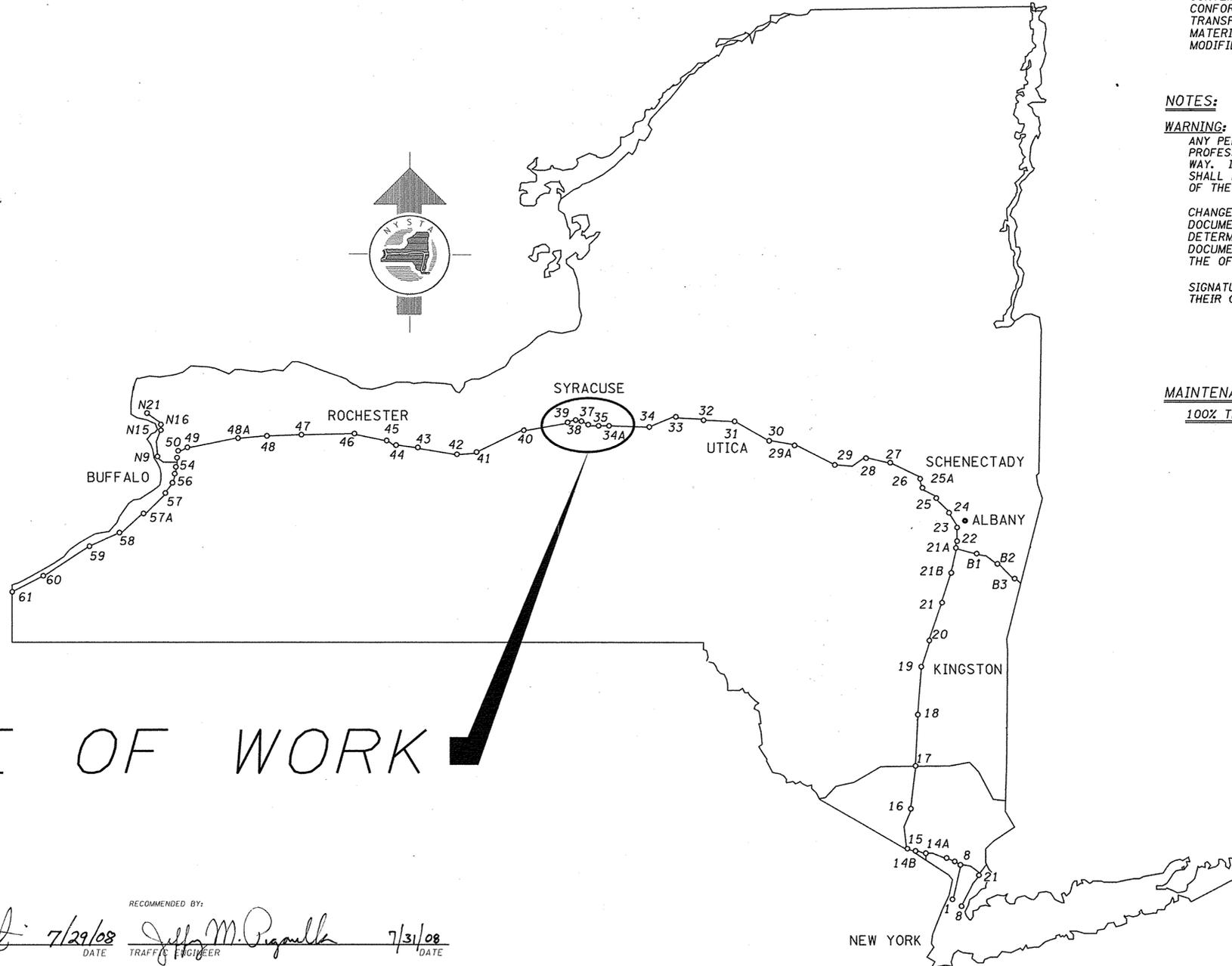
MAINTENANCE JURISDICTION
100% THRUWAY AUTHORITY

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RECORD

SYRACUSE DIVISION
PLANS FOR
INSTALLATION OF PLANS
ITS DEVICES
AT VARIOUS LOCATIONS
IN
ONONDAGA COUNTY

60 SHEETS TAS 08-32I
P.I.N. 3754.80; D213772



SITE OF WORK

CONTRACTOR'S NAME: POWER LINE Constructors Inc.
 AWARD DATE: January 5, 2009
 COMPLETION DATE: December 18, 2009
 FINAL ACCEPTANCE DATE: February 4, 2010
 INSPECTION FIRM'S NAME: Popli Eng'g
 RESIDENT ENG./EIC: Joseph V. Rucina
 FINAL COST TOTAL: \$ 2,268,099.41

FISCAL SHARE	COST(S)
1	\$ 2,267,045.61
2	\$ 1,053.80

INSPECTION FIRM
CONSULTANT STAMP:

RECOMMENDED BY: Thomas F. Summit 7/29/08
 DIRECTOR, OFFICE OF DESIGN

RECOMMENDED BY: Jeffrey M. Pignatelli 7/31/08
 TRAFFIC ENGINEER

RECOMMENDED BY: Richard Landman 7/30/08
 DIVISION DIRECTOR

RECOMMENDED BY: Anthony White 7/30/08
 DIRECTOR, OFFICE OF CONSTRUCTION MANAGEMENT

APPROVED BY: Donald R. Bell 7/31/08
 DIRECTOR OF MAINTENANCE AND OPERATIONS

APPROVED BY: Christopher A. White 8/16/08
 CHIEF ENGINEER

PREPARED BY: STV Incorporated	PREPARED BY: Stantec
SIGNATURE: ROLAND A. BELL REGISTERED PROFESSIONAL ENGINEER 059405 7.24.08	SIGNATURE: JEFFREY W. PIGNATELLI REGISTERED PROFESSIONAL ENGINEER 078949 7/31/08
TAS 08-32I	

CONSULTANT PROJECT ENGINEER: Goffa J. Del
 THRUWAY AUTHORITY PROGRAM DIRECTOR: David R. Johnson
 REVIEWED BY: David P. Miller
 PROJECT: NY Highway Design
 PROJECT NO: BALSOPP-SPT
 DATE: 7/23/2008
 1:13:32 AM
 PLOT CONFIG: #NS-PLTFCO

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
201.06	M CLEARING AND GRUBBING	LS	NEC	100.00
203.02	M UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	64	0.00
203.03	M EMBANKMENT IN PLACE	CM	1	0.00
203.0802	M SELECT GRANULAR FILL SLOPE PROTECTION TYPE B	CM	23	0.00
206.01	M STRUCTURE EXCAVATION	CM	8	0.00
206.03	M CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	M	3163	2890.31
25206.0312	M CONDUIT INSTALLATION ON ABOVE GRADE STRUCTURES	M	284	268.77
209.1004	M SEED AND STRAW/WOOD FIBER MULCH TEMPORARY	SQM	2000	0.00
209.13	M SILT FENCE - TEMPORARY	M	241	11.00
209.1701	M DRAINAGE STRUCTURE INLET PROTECTION, SILT FENCE - TEMPORARY	M	10	0.00
209.23	M PIPE INLET/ OUTLET PROTECTION SILT FENCE- TEMPORARY	M	10	0.00
304.15	M SUBBASE COURSE - OPTIONAL TYPE	CM	52	59.01
606.10	M BOX BEAM GUIDE RAILING	M	215	122.00
606.1203	M BOX BEAM GUIDE RAIL END ASSEMBLY TYPE III	EACH	2	1.00
606.73	M REMOVING AND DISPOSING BOX BEAM GUIDE RAILING	M	42	21.40
606.7920	M REMOVING AND DISPOSING BOX BEAM GUIDE RAILING END ASSEMBLY	EACH	2	1.00
608.0101	M CONCRETE SIDEWALKS AND DRIVEWAYS	CM	2	0.68
25608.010101M	WORK PAD	EACH	12	12.00
610.0203	M ESTABLISHING TURF	SQM	248	0.00
613.03	M PLACING TOPSOIL -TYPE B	CM	17	0.00
619.0101	M BASIC WORK ZONE TRAFFIC CONTROL (DAILY OPERATIONS)	LS	NEC	100.00
619.1701	M TEMPORARY CONCRETE BARRIER (UNPINNED)	M	299	0.00
25619.1706	M LINEAR DELINEATION SYSTEM	M	21	0.00
619.1803	M TEMPORARY IMPACT ATTENUATOR-REDIRECTIVE (TEST LEVEL 3)	EACH	2	0.00
625.01	M SURVEY OPERATIONS	LS	NEC	100.00
17632.15	M SEGMENTAL BLOCK RETAINING WALL SYSTEM	SQM	3	0.00
25637.13	M ENGINEER'S FIELD OFFICE - TYPE 3	MNTH	12	13.00
644.11	M <i>Anchor Bolts</i>	KG	540.00	538.80
644.20	M DRILLED SHAFT FOR OVERHEAD SIGN STRUCTURES	CM	23	22.67
644.4403	M NON STANDARD SIGN STRUCTURE	EACH	2	2.00
25645.4506	M DYNAMIC MESSAGE SIGN DYNAMIC MESSAGE SIGN	EACH	2	2.00
645.830202M	M TYPE B SIGN POST, GALVANIZED, W150X13.5 SECTION, BI-DIRECTIONAL BREAKAWAY BASE	EACH	10	10.00
25646.0603	M INSTALL DELINEATOR, ON POST	EACH	3	0.00
25646.0802	M INSTALL SNOWPLOW MARKER, DOUBLE UNIT	EACH	4	2.00
25646.1032	M REMOVE AND RESET EXISTING DELINEATORS, SNOWPLOWING MARKERS, TENTH MILE MARKERS, AND MILE MARKERS	EACH	2	1.00
647.01	M REMOVAL OF SIGNS - SIZE A (0.0 - 1.0 SQUARE METERS)	EACH	4	3.00
647.14	M RELOCATING SIGNS SIZE D (4.1 TO 10.0 SM	EACH	1	1.00
650.1004	M TRENCHLESS INSTALLATION OF CASING UNDER HIGHWAY WITH A DIAMETER LESS THAN OR EQUAL TO 600MM (100MM)	M	71	78.03
650.1006	M TRENCHLESS INSTALLATION OF CASING UNDER HIGHWAY WITH A DIAMETER LESS THAN OR EQUAL TO 600MM (150MM)	M	224	308.31
25651.020015M	CCTV CAMERA MOUNTING POLES	EACH	5	5.00
25651.990831M	FIBER OPTIC DISTRIBUTION CABLE	M	2692	3785.02
25651.990833M	FIBER OPTICE SPLICE ENCLOSURE (DROP)	EACH	10	0.00

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
25651.990834M	FIBER OPTIC PATCH PANEL	EACH	12	21.00
25651.990835M	WALL MOUNTED FIBER SPLICE BOX	EACH	5	0.00
25651.990836M	MISCELLANEOUS FIBER WORK	LS	NEC	100.00
39657.0010	M PANEL BOARDS AND CIRCUIT BREAKERS PANEL BOARDS AND CIRCUIT BREAKERS	LS	NEC	100.00
25660.2003	M OVERHEAD/UNDERGROUND SERVICE POLE	EACH	1	1.00
25660.610002M	REIMBURSEMENT TO NIAGARA MOHAWK FOR FURNISH UTILITY SERVICE	LS	NEC	0.00
25660.610003M	REIMBURSEMENT TO VERIZON FOR FURNISHING UTILITY SERVICE	LS	NEC	12.00
25660.610011M	REIMBURSEMENT TO TRANSCOM FOR FURNISHING UTILITY SERVICE	LS	NEC	54.92
25662.741250M	PLASTIC INNERDUCT - 31.25 (1 1/4 IN) NOMINAL DIAMETER	M	3786	3455.54
670.2306	M GALVANIZED STEEL PLASTIC COATED PLASTIC COATED CONDUIT-2 NPS	M	68	61.89
11670.410912M	GALVANIZED STEEL NEMA 4 TYPE JUNCTION BOX NEMA 4X JUNCTION BOX 457MMX 305MMX 254MM	EACH	6	500
11670.410915M	GALVANIZED STEEL NEMA-4 TYPE JUNCTION BOX SURFACE MOUNTED 203 MM X 203 MM X 152 MM	EACH	6	6.00
670.7002	M SINGLE CONDUCTOR CABLE NUMBER 2 GAGE	M	4042	3229.78
670.7003	M SINGLE CONDUCTOR CABLE NUMBER 4 GAGE	M	609	624.53
670.7004	M SINGLE CONDUCTOR CABLE, NUMBER 6 GAGE	M	65	36.75
670.7007	M SINGLE CONDUCTOR CABLE, NUMBER 12 GAGE	M	232	671.23
670.7010	M SINGLE CONDUCTOR CABLE, NUMBER 1/0 GAGE	M	2862	2643.31
670.7020	M SINGLE CONDUCTOR CABLE NUMBER 2/0 GAGE	M	1418	1269.20
670.7030	M SINGLE CONDUCTOR CABLE, NUMBER 3/0 GAGE	M	2880	2564.37
25670.7504	M GROUND WIRE 1/C NO. 4 AWG THWN 600 VOLTS	M	203	208.17
25670.750601M	GROUND WIRE 1/C NO. 6 AWG THWN 600 VOLTS	M	4296	3761.69
25670.750901M	GROUND WIRE 3/C NO.3/0 AWG THWN 600 VOLTS	M	960	833.46
680.5001	M POLE EXCAVATION AND CONCRETE FOUNDATION	CM	10	6.75
680.510501M	PULLBOX - RECTANGULAR 650MM X 450MM REINFORCED CONCRETE	EACH	17	19.00
25680.5109	M PULLBOX - B	EACH	46	45.00
25680.5196	M CONCRETE FIBER OPTIC PULL BOX	EACH	2	2.00
680.520103M	CONDUIT METAL STEEL, ZINC COATED 1 NPS	M	74	92.06
680.520105M	CONDUIT, STEEL, ZINC COATED 1 1/2 NPS	M	258	210.30
680.520505M	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS I, 1 1/2 NPS	M	301	366.40
680.520506M	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 2 NPS DIA	M	1946	1788.51
680.520507M	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 2 1/2 NPS DIA	M	1181	1242.06
680.520510M	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 4 NPS	M	55	0.00
08680.7007	M CABINET - LOAD CENTER CABINET - LOAD CENTER	EACH	2	1.00
680.750618M	SHIELDED COMMUNICATION CABLE 6 PAIRS, 18 AWG	M	202	199.34
25680.7751	M TRANSMIT COAXIAL CABLE TYPE A	M	109	352.94
25680.7752	M TRANSMIT COAXIAL CABLE - TYPE B	M	194	483.66
25680.802003M	CCTV CABINET	EACH	5	5.00
25680.802004M	TRANSMIT CABINET	EACH	5	5.00
25680.9410	M WATERTIGHT DISCONNECT BOX - NEMA 4X	EACH	1	3.00
25680.990320M	CCTV CAMERA SITE EQUIPMENT CCTV CAMERA SITE EQUIPMENT	EACH	5	5.00
25683.3010	M TRANSMIT TAG READER	EACH	5	5.00

As Built Revisions

DATE	DESCRIPTION	BY	SYM.
6/30/10	addendum 4em	<i>[Signature]</i>	<i>[Symbol]</i>
6/30/10	FINAL QTY'S	<i>[Signature]</i>	<i>[Symbol]</i>

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
INSTALLATION OF ITS DEVICES
I-90 VAR. LOC. SYRACUSE DIVISION

LOCATION OF PROJECT
SYRACUSE DIVISION

TITLE OF DRAWING

ESTIMATE OF QUANTITIES
SHEET 1 OF 2

CONTRACT NUMBER:
TAS 08-321

DATE:
JULY 30, 2008

DRAWING NUMBER:
EQ-1



FILED
 CHECKED BY: JA
 DRAFTED BY: JA
 DESIGNED BY: JA
 IN CHARGE OF: JA

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
25683.3011 M	TRANSMIT ANTENNA	EACH	15	15.00
05690.040001M	SPECIALTY WORK (ELECTRICAL)	LS	NEC	100.00
25697.0203 M	FIELD CHANGE ORDER (THRUWAY)	DC	102000	0.00
698.06 M	STEEL / IRON PRICE ADJUSTMENT	DC	1000	0.00
699.040001M	MOBILIZATION	LS	NEC	100.00
900.0832 M	A - Metal/Steel Conduit, ZINC Coated 2 1/2 NPS	M	0.00	98.91
901.0832 M	A - UPGRADE DYNAMIC SIGN MODEL	D-C	0.00	4320.00
902.0832 M	A - Conduit Metal Steel, ZINC Coated 6 NPS	M	0.00	5.49
903.0832 M	A - TRACER Wire for Fiber Optics	M	0.00	3642.97
904.0832 M	A - INSTALL Disconnected Box At Transmit Locations	EA	0	10.00
905.0832 M	A - INSTALL Wireless Connection - Complete At EXIT 34A	LS	0	100.00
906.0832 M	A - Additional Cost For Requested Box Beam End Assembly	D-C	0	1.00
907.0832 M	FAW - Repair Existing Fiber Optics Duct At Exit 35	D-C	0	1.00
908.0832 M	A - Furnish And Install Complete, Cellular Connection For DMS 6	D-C	0	1.00
909.0832 M	A - Complete Fiber Optics Connections	D-C	0	1.00
910.0832 M	FAW - Additional Basic Work Zone Traffic Control Cost	D-C	0	9403.46
911.0832 M	A - Reimbursement to ADESTA For Furnishing Utility Service	D-C	0	5967.14
912.0832 M	A - Steel/Iron Price Adjustment - Credit	D-C	0	-7412.47

FILED
 CHECKED BY: JA
 DRAFTED BY: JA
 DESIGNED BY: JA
 IN CHARGE OF: JA

As Built Revisions

DATE	DESCRIPTION	BY	SYM.
6/30/10	Additional Items to Contract	Placem	△
6/30/10	FINAL QUANTITIES	Placem	△

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
 DEPARTMENT OF ENGINEERING
 200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
 TITLE OF PROJECT LINE 1
 TITLE OF PROJECT LINE 2

LOCATION OF PROJECT
 SYRACUSE DIVISION

TITLE OF DRAWING
 ESTIMATE OF QUANTITIES
 SHEET 2 OF 2

	CONTRACT NUMBER: TAS 08-32I
	DATE: JULY 30, 2008
	DRAWING NUMBER: EQ-2

File
J. JOHNS
CHECKED BY:
P. BALASCO
DRAFTED BY:
M. CONLEY
DESIGNED BY:
J. JOHNS
IN CHARGE OF:
J. JOHNS

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
Y	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

BRIDGE		
CELL	NAME	DESCRIPTION
□	BSC	BRIDGE, SCUPPER

DRAINAGE		
CELL	NAME	DESCRIPTION
+	DINV	INVERT
▨	DS	STRUCTURE, RECTANGULAR
+	DSI	STRUCTURE, INVERT
∩	DES	END SECTION
▭	DHW	HEADWALL
⊗	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		
CELL	NAME	DESCRIPTION
▭	EIOP_P	STR., INLET, OUTLET PROT.
▨	EIPCB_P	STR., INLET PROT., CONC. BLOCK
⊕	EIPGB_P	STR., INLET PROT., GRAVEL BAG
⊕	EIPHS_P	STR., INLET PROT., HAY/STRAW
▨	EIPP_P	STR., INLET PROT., PREFAB.
⊕	EIPSF_P	STR., INLET PROT., SILT FENCE
▭	ERCB	RISER, CONCRETE BOX
∩	ETRS_P	TRAP, SEDIMENT
+	EWFG	WETLAND FLAG

GEOTECHNICAL		
CELL	NAME	DESCRIPTION
⊗	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
⊕	LTR	TRASH RECEIPTICLE
⊕	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		
CELL	NAME	DESCRIPTION
⊕	S	SINGLE POST
⊕	S P	SINGLE POST, PROPOSED
⊕	SB P	BACK TO BACK, PROPOSED
▭	SDEL	DELINEATORS
⊕	SPM	PARKING METER
⊕	SRM	REFERENCE MARKERS
○	SRSC3	SHLD, CTY, 123 DIG.
○	SRSC4	SHLD, CTY, 4 DIG.
⊕	SRSC2	SHLD, CTY TOUR, 1-2 DIG.
⊕	SRSC4	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		
CELL	NAME	DESCRIPTION
▭	TCBJ	BOX, JUNCTION
▭	TCBP	BOX, PULL BOX
▭	TCBS	BOX, SPLICE
▭	TCMC	MICROCOMPUTER CABINET
⊕	TCPP	PED POLE
⊕	TCSH	SIGNAL HEADS
○	TCSP	SIGNAL POLE

ROW ACQUISITION		
CELL	NAME	DESCRIPTION
⊕	MFS_P-T	FEE ACQUISITION
⊕	MEPS_P-T	EASEMENT, PERMANENT
⊕	METS_P-T	EASEMENT, TEMPORARY
⊕	METS_P-T	OCCUPANCY, TEMPORARY
⊕	MFS_P-T	FEE ACQUISITION W/O ACCESS

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

UTILITIES		
CELL	NAME	DESCRIPTION
⊕	UEB	ELECTRIC, BOX
⊕	UEM	ELECTRIC, METER
⊕	UEMH	ELECTRIC, MANHOLE
⊕	UEPT	ELECTRIC, POLE, TRANS.
⊕	UGM	GAS, METER
⊕	UGMH	GAS, MANHOLE
⊕	UGLM	GAS, LINE MARKER
⊕	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
⊕	USMH	SANITARY SEWER MANHOLE
▭	UTB	TELEPHONE, BOOTH
⊕	UTLM	TELEPHONE, LINE MARKER
⊕	UTMH	TELEPHONE, MANHOLE
⊕	UTVLM	CABLE TV, LINE MARKER
▭	UTVPB	CABLE TV, PULL BOX
▭	UUB	UNKNOWN, BOX
⊕	UUJB	UNKNOWN, JUNCTION BOX
⊕	UUPB	UNKNOWN, MANHOLE
▭	UUMH	UNKNOWN, PULL BOX
⊕	UUVL	UNKNOWN, VALVE
⊕	UUVT	UNKNOWN, VENT
⊕	UUV	UNKNOWN, WELL
⊕	UWFH	WATER, FIRE HYDRANT
⊕	UWM	WATER, METER
⊕	UWMH	WATER, MANHOLE
⊕	UWV	WATER, VALVE
⊕	UWW	WATER, WELL

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 GUIDE RAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).
3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES MAY 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.

No As Built Revisions

DATE	DESCRIPTION	BY	SY

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
**INSTALLATION OF ITS DEVICES
I-90 VAR. LOC. SYRACUSE DIV.**

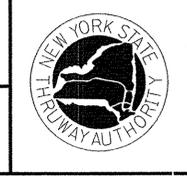
LOCATION OF PROJECT
SYRACUSE DIVISION

TITLE OF DRAWING
LEGEND

CONTRACT NUMBER:
TAS 08-321

DATE:
JULY 30, 2008

DRAWING NUMBER:
LEG-2



GENERAL NOTES

G1. MATERIAL AND CONSTRUCTION SPECIFICATIONS: STANDARD SPECIFICATIONS, STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION, DATED JANUARY 2, 2002, AND ALL ADDENDA THERE TO EXCEPT AS MODIFIED IN THESE PLANS AND/OR THE PROPOSAL.

G2. THE PROJECT AS INDICATED ON THE CONTRACT PLANS IS LOCATED IN SYRACUSE DIVISION OF NEW YORK STATE. ALL EXISTING FEATURES FOR THE SITES IDENTIFIED IN THE TABLE BELOW WERE SURVEYED IN THE FIELD BY MJ ENGINEERING. AN ASSUMED VERTICAL DATUM AND AN ASSUMED HORIZONTAL COORDINATE SYSTEM WAS UTILIZED FOR THIS PROJECT.

CCTV C-10 & TRANSMIT TX-7 I-90 MP 276.58EB, DEWITT, ONONDAGA COUNTY
CCTV C-11 & TRANSMIT TX-8 I-90 MP 278.93EB, DEWITT, ONONDAGA COUNTY
CCTV C-12 & TRANSMIT TX-9 I-90 MP 282.93EB, SALINA, ONONDAGA COUNTY
CCTV C-13 & TRANSMIT TX-10 I-90 MP 283.79WB, SALINA, ONONDAGA COUNTY
CCTV C-14 & TRANSMIT TX-11 I-90 MP 285.67EB, SALINA, ONONDAGA COUNTY
DMS D-5 I-90 MP 280.00WB, DEWITT, ONONDAGA COUNTY
DMS D-6 I-90 MP 288.45EB, GEDDES, ONONDAGA COUNTY

G3. EXISTING FEATURES BETWEEN THE LOCATIONS LISTED ABOVE ARE SCANNED IMAGES FURNISHED BY NYSTA.

G4. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND ADVISE THE AUTHORITY OF THE TYPE, SIZE AND WEIGHT OF ALL VEHICLES HE INTENDS TO USE ON THE STRUCTURE(S) DURING CONSTRUCTION BASED ON THE CONDITION OF THE EXISTING STRUCTURE(S). THIS DETERMINATION SHALL BE MADE BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK EMPLOYED AND PAID BY THE CONTRACTOR.

THE DETERMINATION BY THIS PROFESSIONAL ENGINEER IS TO BE SUBMITTED TO THE AUTHORITY 14 DAYS PRIOR TO THE USE OF ANY VEHICLES ON THE STRUCTURE(S) WITH ALL RESTRICTIONS ENUMERATED BY HIM BEING STRICTLY ADHERED TO.

IN THE EVENT THAT THE CONTRACTOR/SUBCONTRACTOR FAILS TO COMPLY WITH THE INSTRUCTIONS OF THE PROFESSIONAL ENGINEER FOR THE USE OF ANY VEHICLE, THE WORK WILL BE IMMEDIATELY SUSPENDED UNTIL CORRECTIVE PROCEDURES SATISFACTORY TO THE PROFESSIONAL ENGINEER AND THE AUTHORITY ARE EMPLOYED.

COST OF ALL DAMAGE, DIRECT OR INDIRECT, SHALL BE BORNE AND SUSTAINED BY THE CONTRACTOR.

G5. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE HIS WORK WITH OTHER CONTRACTORS AND AUTHORITY MAINTENANCE FORCES, AND HE SHALL SCHEDULE HIS OPERATIONS SO AS TO CAUSE MINIMUM DISRUPTION TO TRAFFIC.

G6. THE CONTRACTOR SHALL KEEP THE ROADWAY CLEAR OF DIRT AND BE RESPONSIBLE FOR ANY ROADWAY CLEANING NECESSARY DURING THE COURSE OF THE PROJECT.

G7. ALL ELECTRIC WORK SHALL COMPLY WITH THE N.E.C. (NFPA 70-VERSION 2005). ALL NEW ELECTRIC WORK WITHIN THE BUILDING, ALL POWER TRANSITION POINTS, POWER POLES, MAJOR POWER AND PULLBOXES, NATIONAL GRID TRANSITION POINTS AND ANY BUILDING ATTACHMENTS AND INTERFACES MUST BE INSPECTED BY A THIRD PARTY ELECTRICAL INSPECTION AGENCY.

G8. ANY DAMAGE TO DELINEATORS, MILEMARKERS AND GUIDE RAILING TO REMAIN CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT NO COST TO THE AUTHORITY.

G9. SHOULDER AREAS DISTURBED BY THE CONTRACTOR, AS PART OF WORK TO BE PERFORMED UNDER THIS CONTRACT, SHALL BE RESTORED AS SPECIFIED AND TO THE SATISFACTION OF THE ENGINEER. ALL THE DISTURBED GRASS AREAS SHALL BE GRADED IN A MANNER APPROVED BY THE ENGINEER AND SEEDED AS SPECIFIED IN THE STANDARD TURF ESTABLISHMENT ITEM. COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS IN THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE UNLESS PAYMENT IS SPECIFICALLY INDICATED BY ITEM NUMBER FOR SPECIFIC AREAS NOTED ON PLAN.

G10. THE CONTRACTOR IS ADVISED THAT ADDITIONAL NOTES WILL BE FOUND ON SUBSEQUENT SHEETS OF THE CONTRACT PLANS AND SUCH "NOTES", WHILE PERTAINING TO THE SPECIFIC DRAWINGS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.

G11. NO PAYMENT WILL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLANS, IN THE SPECIFICATIONS AND UNDER THE HEADING "GENERAL NOTES" UNLESS PAYMENT IS SPECIFICALLY INDICATED BY ITEM NUMBER. THE COST OF WORK FOR WHICH NO PAYMENT IS INDICATED SHALL BE INCLUDED IN THE UNIT PRICE BID FOR VARIOUS ITEMS OF THIS CONTRACT.

G12. TRANSMIT COAXIAL CABLE TYPE A SHOULD HAVE A MAXIMUM LENGTH OF 60m (200 FT) AND TRANSMIT COAXIAL CABLE TYPE B SHOULD HAVE A MAXIMUM LENGTH OF 75m (250 FT).

REMOVAL NOTES

R1. THE CONTRACTOR SHALL EXERCISE CARE IN HIS REMOVAL OPERATIONS SO AS NOT TO UNDULY DISTURB UNDERLYING MATERIALS WHICH ARE TO REMAIN IN PLACE. THE CONTRACTOR SHALL COMPLETE ALL WORK IN A MANNER SUCH THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE AUTHORITY, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE AUTHORITY, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

R2. WHEREVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THE AREA SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THOSE ITEMS.

UTILITY NOTES

U1. LOCATION OF EXISTING UTILITIES, PUBLIC AND/OR PRIVATE, AS SHOWN ON THE PLANS OR INDICATED IN THE PROPOSAL ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OPERATIONS AND TAKE THE NECESSARY PRECAUTIONS TO PREVENT INTERFERENCE WITH OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION.

U2. THE METHOD OF REMOVAL OF EXISTING ROADWAY OR SHOULDER PAVEMENT IN THE IMMEDIATE VICINITY OF UNDERGROUND UTILITIES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

U3. IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, HE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CEASE HIS WORK OPERATION UNTIL SERVICE IS RESTORED.

U4. THE CONTRACTOR SHALL CALL THE FOLLOWING NUMBER BEFORE THE START OF ALL WORK: DIG SAFELY NEW YORK 1-800-962-7962 OR 811.

U5. UTILITY INSTALLATIONS; COORDINATION WITH DIFFERENT UTILITY COMPANIES, NYSTA, NYSOT SHALL BE REQUIRED DURING THE LIFE OF THE CONTRACT. THE CONTACT PERSONS/TELEPHONE NUMBERS ARE AS FOLLOWS:

OWNER	CONTACT	
NEW YORK STATE THRUWAY AUTHORITY	JAMES RYAN	(315) 438-2368
ADESTA, LLC (FIBER OPTIC PLANT)	SCOTT MAILMAN	(518) 869-5053
NATIONAL GRID	CHRISTOPHER KOLOD	(315) 428-5091
TRANSCOM	KEN FRANCIS	(201) 963-4033
VERIZON	KATHY DICAPRIO	(518) 890-6464

CCTV GENERAL NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR END TO END CONNECTIVITY OF ALL EQUIPMENT. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CAT 5E AND FIBER PATCH CABLES. THEY SHALL ALSO HAVE TO PROVIDE THE NECESSARY ETHERNET FIBER CONVERTERS AND ETHERNET SWITCHES AS SPECIFIED IN THE CCTV CAMERA SITE EQUIPMENT & TRANSMIT EQUIPMENT SPECIFICATIONS. THE ETHERNET FIBER MEDIA CONVERTERS WILL BE INSTALLED IN THE TUB'S EXISTING RECORDER ROOM CABINETS. THE CONTRACTOR WILL NEED TO RUN A FIBER OPTIC PATCH CABLE FROM THE RECORDER ROOM EQUIPMENT RACKS TO THE BASEMENT FIBER OPTIC PATCH PANEL LOCATION. IF NEEDED, THE CONTRACTOR WILL HAVE TO WORK WITH THRUWAY ITS MAINTENANCE PERSONNEL, FOR ACCESS AND TO INSTALL A CONDUIT FROM THE RECORDER ROOM TO THE BASEMENT PATCH PANEL LOCATION.

IN CHARGE OF: J. JOHNS
 DESIGNED BY: M. CONLEY
 DRAFTED BY: P. BALASCO
 CHECKED BY: J. JOHNS
 PLOTTED BY: padasco
 Design File: 9/29/2008
 Plot Date: 2:57:13Z PM
 Discipline: NYSOT
 Project: NY_Highway_Design
 Model: BALASCO-SP1

No As Built Revisions

NOTE:
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYM.

REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING GENERAL NOTES SHEET 1			
		CONTRACT NUMBER: TAS 08-321	
		DATE: JULY 30, 2008	
		DRAWING NUMBER: GN-01	

MILE POST	SITE	POWER	OWNER NAME & CONTACT INFORMATION	COMMUNICATION	OWNER NAME & CONTACT INFORMATION
276.58 EB I-90, DEWITT, NY	C-10 & TX-7	POWER FROM EXISTING ELECTRIC PANEL AT EXIT 34A TOLL UTILITY BUILDING	EXIT 34A TOLL PLAZA BUILDING SUPERVISOR	COMMUNICATION FROM EXISTING FIBER DISTRIBUTION PANEL AT EXIT 34A TOLL UTILITY BUILDING THROUGH EXISTING ADESTA SPLICE HH 10-79	ADESTA, LLC (FIBER OPTIC PLANT) SCOTT MAILMAN (518) 869-5053
278.93 EB I-90, DEWITT, NY	C-11 & TX-8	POWER FROM EXISTING ELECTRIC PANEL AT EXIT 35 TOLL UTILITY BUILDING	EXIT 35 TOLL PLAZA BUILDING SUPERVISOR	COMMUNICATION FROM EXISTING FIBER DISTRIBUTION PANEL AT EXIT 35 TOLL UTILITY BUILDING THROUGH EXISTING ADESTA HH 10-86B	ADESTA, LLC (FIBER OPTIC PLANT) SCOTT MAILMAN (518) 869-5053
282.93 EB I-90, SALINA, NY	C-12 & TX-9	POWER FROM REGEN BUILDING # 9	REGEN BUILDING # 9 SUPERVISOR	COMMUNICATION FROM REGION BUILDING # 9 THROUGH MH-9	ADESTA, LLC (FIBER OPTIC PLANT) SCOTT MAILMAN (518) 869-5053
283.79 WB I-90, SALINA, NY	C-13 & TX-10	POWER FROM EXISTING ELECTRIC PANEL AT EXIT 37 TOLL UTILITY BUILDING	EXIT 37 TOLL PLAZA BUILDING SUPERVISOR	COMMUNICATION FROM EXISTING FIBER DISTRIBUTION PANEL AT EXIT 37 TOLL UTILITY BUILDING THROUGH EXISTING ADESTA SPLICE HH 9-4	ADESTA, LLC (FIBER OPTIC PLANT) SCOTT MAILMAN (518) 869-5053
285.67 EB I-90, SALINA, NY	C-14 & TX-11	POWER FROM EXISTING ELECTRIC PANEL AT EXIT 38 TOLL UTILITY BUILDING	EXIT 38 TOLL PLAZA BUILDING SUPERVISOR	COMMUNICATION FROM EXISTING FIBER DISTRIBUTION PANEL AT EXIT 38 TOLL UTILITY BUILDING THROUGH EXISTING ADESTA SPLICE HH 9-10A	ADESTA, LLC (FIBER OPTIC PLANT) SCOTT MAILMAN (518) 869-5053
320.41 EB I-90, TYRE, NY	C-17 & TX-14	POWER FROM REGEN BUILDING # 8	REGEN BUILDING # 8 SUPERVISOR	COMMUNICATION FROM REGION BUILDING # 8 THROUGH MH-8	ADESTA, LLC (FIBER OPTIC PLANT) SCOTT MAILMAN (518) 869-5053
280.00 WB I-90, DEWITT, NY	D-5	POWER AND COMMUNICATION FROM THE DEWITT SERVICE AREA BUILDING	NYSTA JAMES RYAN (315-438-2368)	COMMUNICATION FROM EXISTING FIBER DISTRIBUTION PANEL AT DEWITT SERVICE STATION	VERIZON KATHY DICAPRIO (518-890-6464)
288.45 EB I-90, GEDDES, NY	D-6	POWER FROM EXISTING UTILITY POLE NIMO 200	NATIONAL GRID CHRISTOPHER KOLOD (315-428-5091)	COMMUNICATION FROM EXISTING UTILITY POLE NIMO 200	VERIZON KATHY DICAPRIO (518-890-6464)

Plotted By: pholaseo
 Design File: 9/19/08
 Plot Date: 9/22/08
 2:57:23 PM
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J. JOHNS

CHECKED BY:

P. BALASCO

DRAFTED BY:

M. CONLEY

DESIGNED BY:

J. JOHNS

IN CHARGE OF:

CCTV TRANSMIT INSTALLATION NOTES:

- C1. THE ARM OF THE CCTV SYMBOL INDICATES THE APPROXIMATE DIRECTION THAT THE ARM OF THE CCTV LOWERING DEVICE SHALL EXTEND. THE EXACT DIRECTION OF THE ARM SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- C2. WHERE FIBER OPTIC DISTRIBUTION CABLE IS INSTALLED IN OR THROUGH A BACKBONE FIBER OPTIC PULLBOX PROVIDE 20 m OF SURPLUS DISTRIBUTION CABLE COILED INSIDE THE PULLBOX. IN TYPE B PULLBOXES PROVIDE 12 m OF SURPLUS DISTRIBUTION CABLE COILED INSIDE EACH PULLBOX.
- C3. TEST AND TERMINATE THE FIBER OPTIC CABLE IN THE NYSTA FACILITY. SEE INSET PLAN FOR SHOWING LOCATION OF FIBER DISTRIBUTION PANEL AT EACH NYSTA BUILDING.
- C4. THE CONTRACTOR SHALL NOTIFY NYSTA 3 BUSINESS DAYS PRIOR TO STARTING WORK IN THEIR BUILDINGS.

- C5. CONTRACTOR IS RESPONSIBLE FOR END TO END CONNECTIVITY OF ALL EQUIPMENT. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY AT 5E AND FIBER PATCH CABLES TO PROVIDE END TO END CONNECTIVITY.
- C6. THE CONTRACTOR SHALL PROVIDE ETHERNET FIBER CONVERTERS AND ETHERNET SWITCHES AS SPECIFIED IN THE "CCTV CONNECTING SITE EQUIPMENT" AND "TRANSMIT EQUIPMENT SPECIFICATIONS".

ADESTA FIBER NOTES

- F1. HANDHOLE SPLICING AND RING CUTTING SHALL BE COMPLETED BETWEEN THE HOURS OF 12:00 AM AND 6:00 AM.

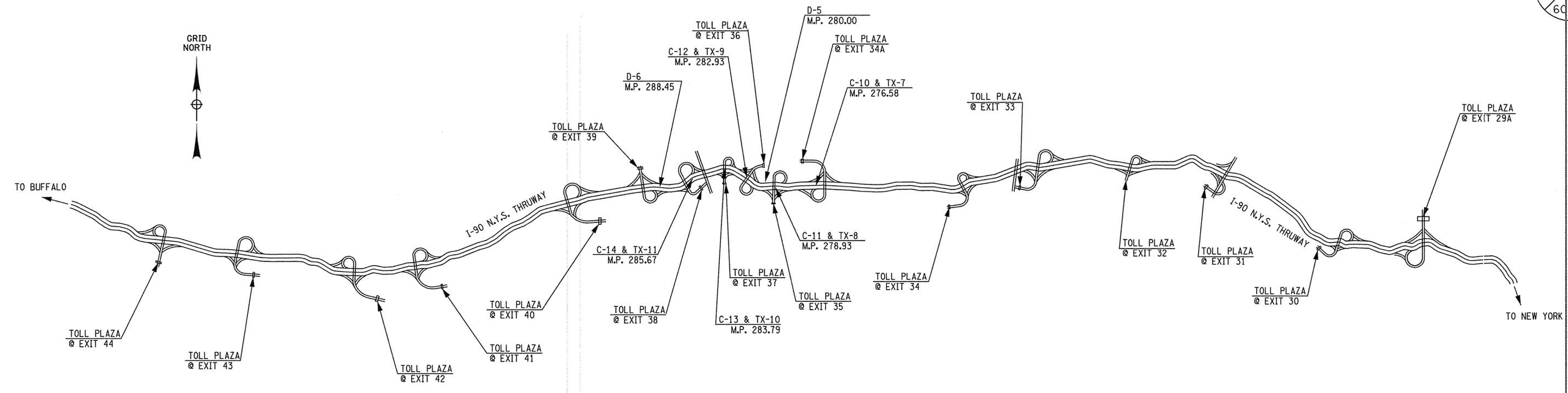
No As Built Revisions
 NOTE:
 ALL DIMENSIONS ARE IN METERS
 UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE REGION ITS			
TITLE OF DRAWING GENERAL NOTES SHEET 2			
CONTRACT NUMBER: TAS 08-32		DATE: JULY 30, 2008	
DRAWING NUMBER: GN-02			



Plot/Drawn By: poliasco
 Design File: 0919250013861rtronsperforationsdesign04040404.dwg
 Date: 9/22/2008
 Discipline: NYS DOT
 Project: NY Highway Design
 Code: BALASCO-SFI

DESIGNED BY: J. JOHNS
 CHECKED BY: J. JOHNS
 DRAFTED BY: P. BALASCO
 IN CHARGE OF: M. CONLEY



SITE	COMMUNICATION EQUIPMENT	COMMUNICATION REQUIRED
C-10	CCTV CAMERA	FIBER OPTIC
C-11	CCTV CAMERA	FIBER OPTIC
C-12	CCTV CAMERA	FIBER OPTIC
C-13	CCTV CAMERA	FIBER OPTIC
C-14	CCTV CAMERA	FIBER OPTIC
TX-7	TRANSMIT STATION ANTENNA	FIBER OPTIC
TX-8	TRANSMIT STATION ANTENNA	FIBER OPTIC
TX-9	TRANSMIT STATION ANTENNA	FIBER OPTIC
TX-10	TRANSMIT STATION ANTENNA	FIBER OPTIC
TX-11	TRANSMIT STATION ANTENNA	FIBER OPTIC
D-5	DYNAMIC MESSAGE SIGN	FIBER OPTIC
D-6	DYNAMIC MESSAGE SIGN	DIAL-UP

No As Built Revisions
 NOTE:
 ALL DIMENSIONS ARE IN METERS
 UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYR.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD. ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING KEY PLAN			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: GN-03			



GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR WILL BE REQUIRED TO PERFORM ALL CONSTRUCTION OPERATIONS IN A MANNER SO AS TO MINIMIZE SOIL EROSION AND ENSURE SEDIMENT CONTROL. EROSION CONTROL MEASURES ARE ITEMS AND ACTIONS THAT MINIMIZE THE LOSS OF SOIL DUE TO THE DESTRUCTIVE EFFECTS OF WIND AND WATER ON SURFACE SOIL. SEDIMENT CONTROL MEASURES ARE ITEMS OR ACTIONS USED TO MINIMIZE SUSPENDED SOIL MATERIAL TRANSPORT BY WATER. EFFECTIVE SOIL EROSION AND SEDIMENT CONTROL CAN BE ACCOMPLISHED BY LIMITING THE AREA OF UNPROTECTED SOIL. PROTECTED IS DEFINED AS HAVING TEMPORARY OR PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES IN PLACE. PERIMETER SEDIMENT CONTROL MEASURES ALONE ARE NOT CONSIDERED ADEQUATE PROTECTION.
2. THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ALL ENVIRONMENTAL PERMITS ISSUED FOR THIS PROJECT. THESE PLANS REFLECT THE PROVISIONS AND REQUIREMENTS OF SAID PERMIT(S). PERMIT(S) WILL BE AVAILABLE FROM THE E.I.C. PRIOR TO THE START OF CONSTRUCTION.
3. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT DIRECT OR INDIRECT CONTAMINATION OF ALL WATER BODIES (INCLUDING WETLANDS) BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE LEACHATE, OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION AND CONSTRUCTION PROCEDURES. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE DIRECTLY OR INDIRECTLY INTO ANY WATER BODIES (INCLUDING WETLANDS), NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS, OR OTHER DEVICES BE ALLOWED TO ESCAPE DIRECTLY OR INDIRECTLY INTO ANY WATER BODIES (INCLUDING WETLANDS).
4. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER BODIES (INCLUDING WETLANDS) AND SHALL BE DISPOSED OF AWAY FROM WETLANDS, WATER COURSES, OR OTHER BODIES OF WATER.
5. ALL DREDGED AND EXCAVATED MATERIALS SHALL BE DISPOSED OF AND BE PROTECTED SO THAT IT CAN NOT DIRECTLY OR INDIRECTLY RE-ENTER ANY WATER BODY OR WETLAND AREA. ALL DE-WATERING OPERATIONS INVOLVING TURBID WATER SHALL BE ACCOMPLISHED BY PUMPING TO A VEGETATED AREA (NOT INCLUDING WETLANDS) OR TO A SEDIMENT TRAP, OR A MANUFACTURED SEDIMENT CONTROL SYSTEM. WHEN THE WATER BEING DISCHARGED IS AS FREE AND CLEAR OF SEDIMENT AS THE ADJACENT STREAM OR WATER BODY, THE WATER CAN BE PUMPED DIRECTLY INTO THE STREAM OR WATER BODY. DE-WATERING OPERATIONS OF TURBID WATER SHALL NOT DIRECTLY OR INDIRECTLY DISCHARGE TO ANY WATER BODIES (INCLUDING WETLANDS). LOCATIONS AND DESIGNS NOT SHOWN ON THE PLANS SHALL BE APPROVED BY THE ENGINEER-IN-CHARGE AND THE REGIONAL CONSTRUCTION ENVIRONMENTAL COORDINATOR.
6. TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AS PER DETAILS AND SPECIFICATIONS. THE COST OF MAINTAINING AND REMOVING TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INCLUDED IN THE BID PRICE OF THE APPROPRIATE ITEM USED FOR THE INSTALLATION OF THE MEASURE. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AFTER EACH STORM EVENT OF 12 mm OR MORE IN A 12 HOUR PERIOD, AT LEAST DAILY DURING PROLONGED RAINFALL. IF NO RAINFALL OCCURS, INSPECTION SHALL BE DONE ONCE EVERY SEVEN CALENDAR DAYS.
7. TEMPORARY CHECK DAMS USED AS SHOWN ON PLANS SHALL BE INSTALLED IMMEDIATELY FOLLOWING DITCH EXCAVATING OPERATIONS. TEMPORARY CHECK DAMS SHALL REMAIN IN PLACE UNTIL NEW SLOPES HAVE BEEN PERMANENTLY PROTECTED WITH EROSION CONTROL MEASURES.
8. TEMPORARY STOCKPILES OF SOIL SHALL BE PROTECTED AS PER THE SOIL EROSION AND SEDIMENT CONTROL DETAILS. AT A MINIMUM TEMPORARY STOCKPILES SHALL BE RINGED WITH SILT FENCE. STOCKPILES AND AREA OF STOCKPILES LEFT INACTIVE FOR LONGER THAN 14 DAYS SHALL HAVE TEMPORARY SEED AND MULCH APPLIED OR BE COVERED IN A MANNER THAT WILL PREVENT EROSION. ANY MEASURES USED TO COVER STOCKPILES SHALL BE SECURED TO MAINTAIN THEIR EFFECTIVENESS.
9. ANY ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL MEASURES USED TO SUPPLEMENT THE PLANS SHALL BE PREPARED IN ACCORDANCE WITH THE TECHNICAL REQUIREMENTS CONTAINED IN THE "NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", LATEST EDITION. ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AS PER SECTION 107-12 OF THE STANDARD SPECIFICATIONS.
10. REFER TO NYS DOT STANDARD SHEETS M209-1, M209-3, M209-4, M209-6, M209-7 AND M209-9 FOR ADDITIONAL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
11. TEMPORARY SEED AND MULCH APPLICATION RATES SHALL BE PER NYS DOT STANDARD SPECIFICATION 209.1004.

NOTE: *No As Built Revisions*
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SY#

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
INSTALLATION OF ITS DEVICES
I-90 VAR. LOC. SYRACUSE DIV.

LOCATION OF PROJECT
SYRACUSE DIVISION

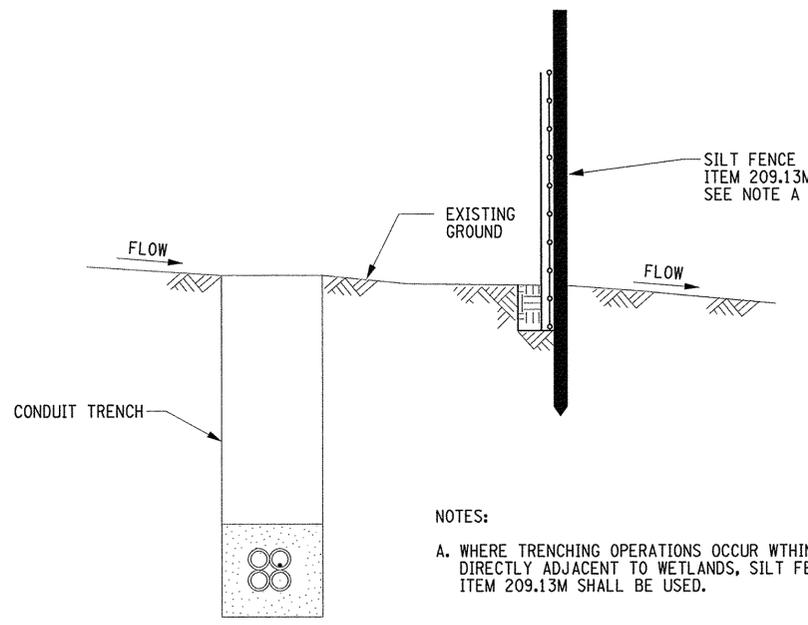
TITLE OF DRAWING
EROSION CONTROL DETAILS

CONTRACT NUMBER:
TAS 08-321

DATE:
JULY 30, 2008

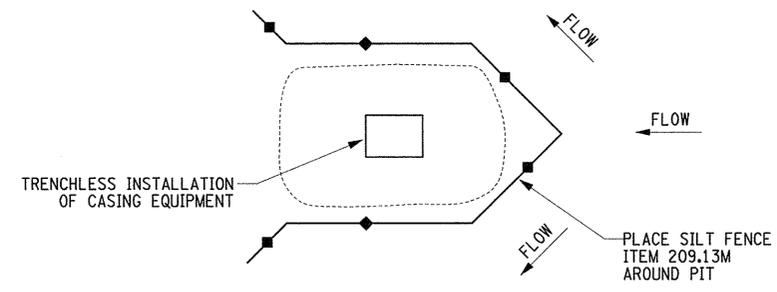
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EC-01



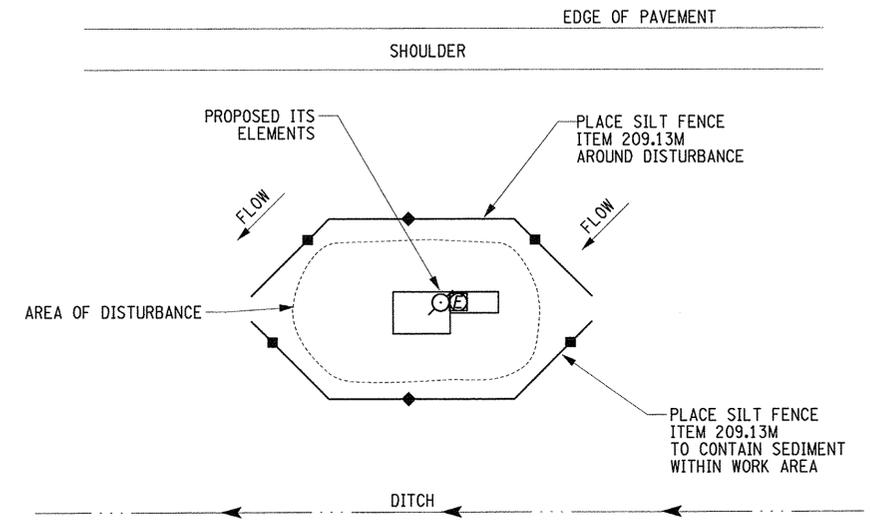


NOTES:
A. WHERE TRENCHING OPERATIONS OCCUR WITHIN OR DIRECTLY ADJACENT TO WETLANDS, SILT FENCE ITEM 209.13M SHALL BE USED.

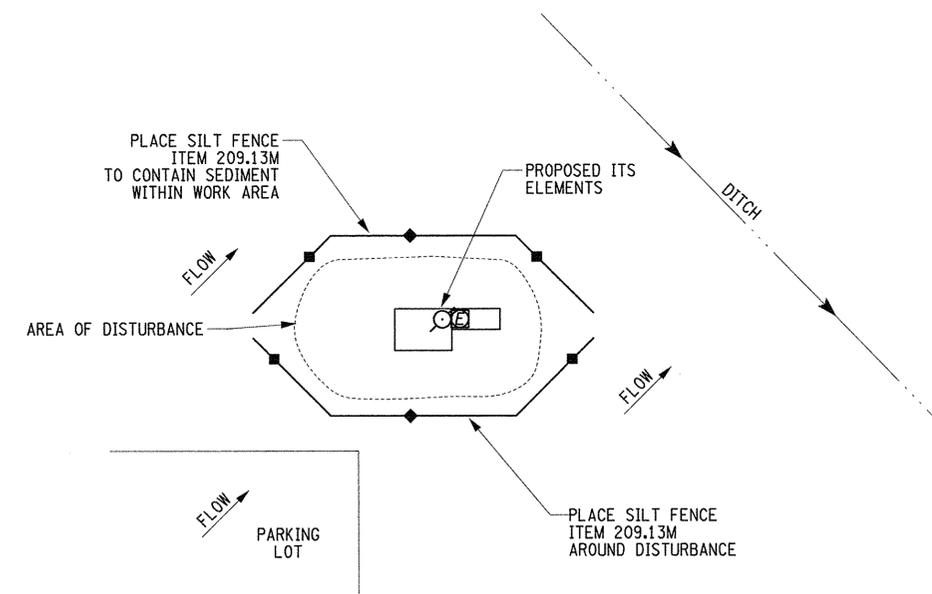
TEMPORARY SILT FENCE ADJACENT TO WETLANDS
N.T.S.



TEMPORARY SILT FENCE AT LOCATIONS OF TRENCHLESS INSTALLATION OF CASING
N.T.S.



SEDIMENT CONTROL AT EDGE OF ROADWAY
N.T.S.



SEDIMENT CONTROL ADJACENT TO PAVED PARKING AREAS OR SIDEWALKS
N.T.S.

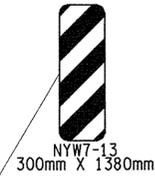
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11	209.1004 M	SEED & STRAW/WOOD FIBER MULCH - TEMPORARY	SM	2000
13	209.23 M	PIPE INLET/OUTLET PROTECTION, SILT FENCE - TEMPORARY	M	10
14	209.13 M	SILT FENCE - TEMPORARY	M	241
15	209.1701 M	DRAINAGE STRUCTURE INLET PROTECTION, SILT FENCE - TEMPORARY	M	10

IN CHARGE OF: J. JOHNS
 DESIGNED BY: M. CONLEY
 DRAFTED BY: P. BALASCO
 CHECKED BY: J. JOHNS
 Plotted By: pbalasco
 Design File: I:\61925001\388\Tranportation\design\NON\0104\A4\Drawings\EC\0105_S\R_ecl.dgn
 Plot Date: 9/23/2008 2:51:42 PM
 Discipline: NYS DOT
 Project: NY Highway Design
 Number: BALASCO-P-SPL

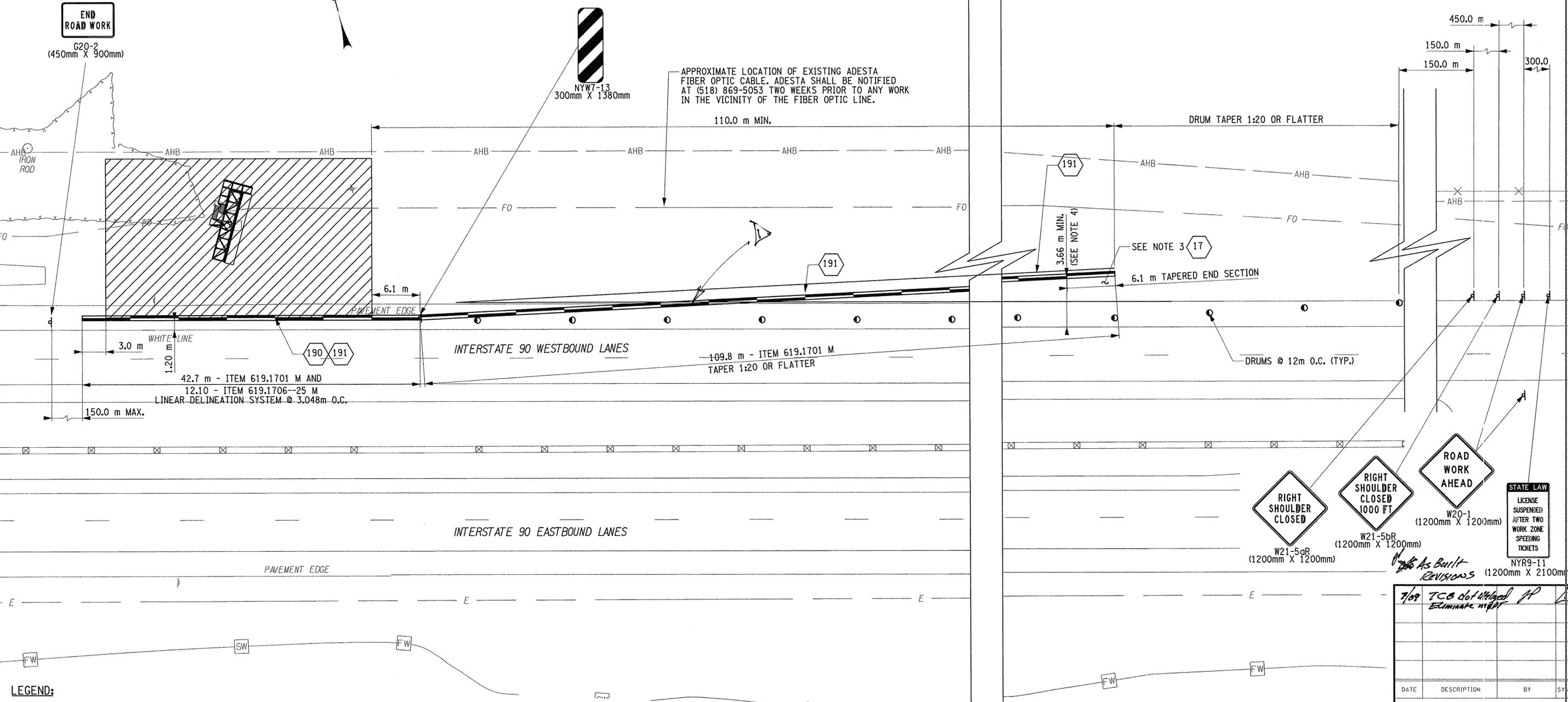
FILED: J. JOHNS
 CHECKED BY: P. BALASCO
 DRAFTED BY: M. CONLEY
 DESIGNED BY: J. JOHNS
 IN CHARGE OF: J. JOHNS
 PLOTTED BY: pbalasco
 Design File: 191925001.3861r-onsepor-tationdesigns\NONO\A\G\dr-awing\MP190MS-SYR-02.mpt.dgn
 Plot Date: 9/29/2008
 Discipline: NYSDOT
 Project: NY Highway Design
 Node: BALASCO-SP1



END ROAD WORK
G20-2
(450mm X 900mm)



APPROXIMATE LOCATION OF EXISTING ADESTA FIBER OPTIC CABLE. ADESTA SHALL BE NOTIFIED AT (518) 869-5053 TWO WEEKS PRIOR TO ANY WORK IN THE VICINITY OF THE FIBER OPTIC LINE.



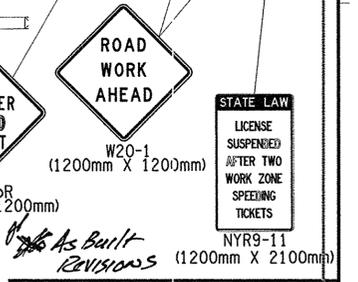
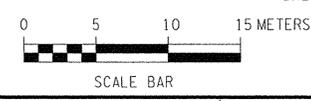
LEGEND:

- WORK AREA
- TEMPORARY CONCRETE BARRIER
- CONSTRUCTION DRUM
- CONSTRUCTION SIGN
- TEMPORARY ATTENUATOR

- NOTES:**
- NO MATERIAL OR EQUIPMENT SHALL BE STORED OUTSIDE THE WORK AREA UNLESS APPROVED BY THE ENGINEER. NO WORK, MATERIAL, OR EQUIPMENT SHALL BE LOCATED LESS THAN 0.40m BEHIND T.C.B.
 - THE "SHOULDER CLOSED" SIGN SHALL BE USED WHENEVER THE WIDTH OF EXISTING SHOULDER IS REDUCED. IT SHALL BE PLACED 150.0m UPSTREAM OF THE FIRST DRUM.
 - T.C.B. MUST BE INSTALLED ON SLOPES 1:10 OR FLATTER. 1:10 SLOPE MUST EXTEND A MINIMUM OF 0.40m BEHIND T.C.B. IF A 1:10 SLOPE DOESN'T EXIST, CONTRACTOR SHALL PLACE ITEM 304.15 M TO ACHIEVE PROPER CROSS SLOPE A.O.B.E. AT THE END OF CONSTRUCTION ANY SUBBASE PLACED SHALL BE REMOVED AND THE DISTURBED AREA REGRADED AND SEEDED. WORK TO BE PAID FOR UNDER ITEMS 203.02 M, 610.0203 M AND 613.03 M.
 - USE TAPERED END SECTION WHEN LAST FULL HEIGHT BARRIER SECTION IS GREATER THAN 3.66m OFF OF EDGE OF TRAVEL LANE. IF LAST FULL HEIGHT SECTION OF BARRIER IS LESS THAN 3.66m OFF OF EDGE OF TRAVEL LANE, PROVIDE APPROVED TEMPORARY ATTENUATOR, REDIRECTIVE, ITEM 619.1803M.

REF. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY.
2	203.02 M	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	36
17	304.15 M	SUBBASE COURSE - OPTIONAL TYPE	CM	36
60	619.0101 M	BASIC WORK ZONE TRAFFIC CONTROL	LS	NA
68	625.01 M	SURVEY AND STAKEOUT	LS	NA
190	619.1706--25 M	LINEAR DELINEATION SYSTEM	M	13
191	619.1701 M	TEMPORARY CONCRETE BARRIER, (UNPINNED)	M	153

NOTE:
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.



As Built
REVISIONS

7/09 TCB Not Aligned AP
Eliminate mpt

DATE	DESCRIPTION	BY	SYSL
REVISIONS			

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
INSTALLATION OF ITS DEVICES
I-90 VAR. LOC. SYRACUSE DIV.

LOCATION OF PROJECT
SYRACUSE DIVISION

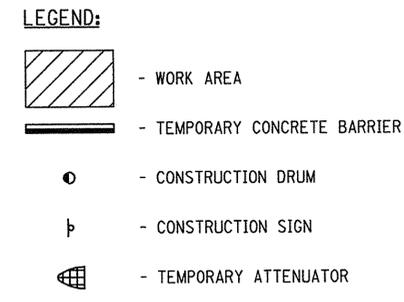
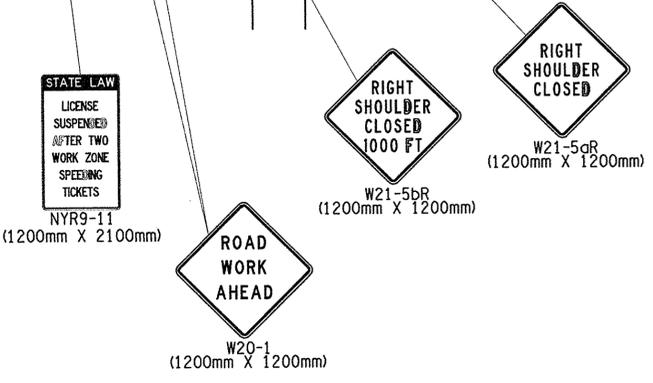
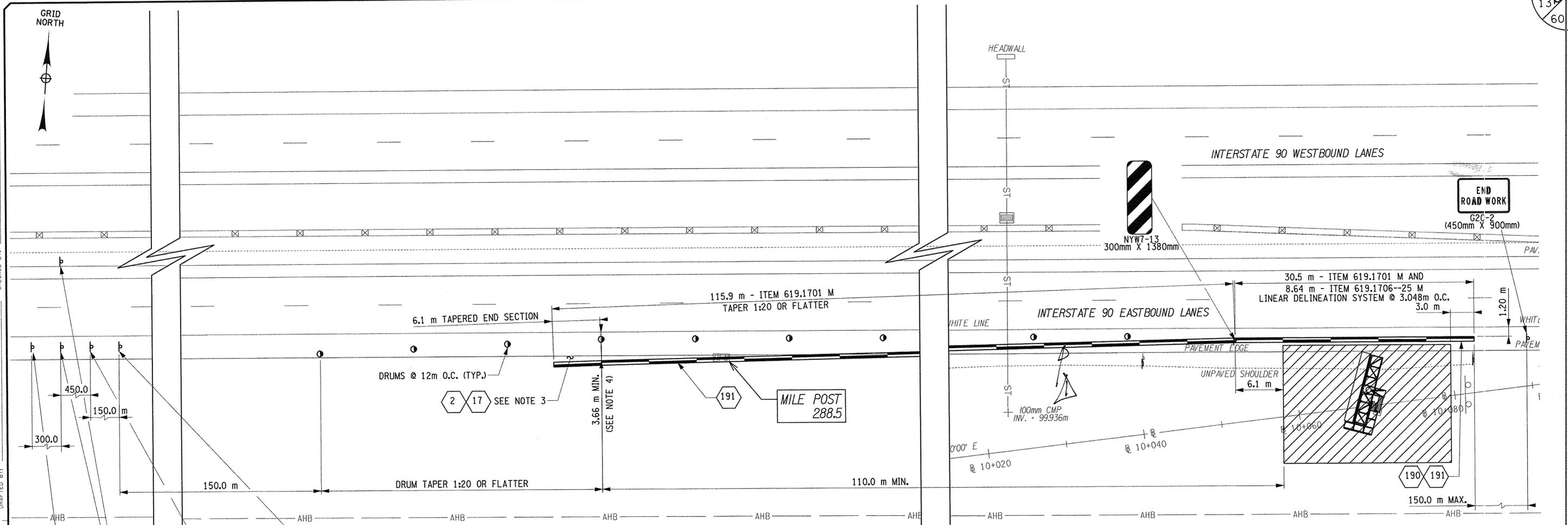
TITLE OF DRAWING
MPT PLAN
SITE D-5 M.P. 280.00 WE

CONTRACT NUMBER:
TAS 08-321

DATE:
JULY 30, 2008

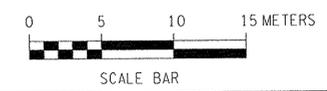
DRAWING NUMBER:
MPT-2

IN CHARGE OF: J. JOHNS
 DESIGNED BY: M. CONLEY
 DRAFTED BY: P. BALASCO
 CHECKED BY: J. JOHNS
 PLOTTED BY: pbaosco
 Design File: 9/29/2008 3:00:38 PM
 Project: NY-Highway Design
 Node: BALASCO-SF1
 Discipline: NYSDOT
 Date: 9/29/2008 3:00:38 PM
 File: 9/29/2008 3:00:38 PM
 Project: NY-Highway Design
 Node: BALASCO-SF1



REF. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY.
2	203.02 M	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	14
17	304.15 M	SUBBASE COURSE - OPTIONAL TYPE	CM	14
60	619.0101 M	BASIC WORK ZONE TRAFFIC CONTROL	LS	NA
68	625.01 M	SURVEY AND STAKEOUT	LS	NA
190	619.1706--25 M	LINEAR DELINEATION SYSTEM	M	9
191	619.1701 M	TEMPORARY CONCRETE BARRIER, (UNPINNED)	M	147

- NOTES:**
- NO MATERIAL OR EQUIPMENT SHALL BE STORED OUTSIDE THE WORK AREA UNLESS APPROVED BY THE ENGINEER. NO WORK, MATERIAL, OR EQUIPMENT SHALL BE LOCATED LESS THAN 0.40m BEHIND T.C.B.
 - THE "SHOULDER CLOSED" SIGN SHALL BE USED WHENEVER THE WIDTH OF EXISTING SHOULDER IS REDUCED. IT SHALL BE PLACED 150.0m UPSTREAM OF THE FIRST DRUM.
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 - USE TAPERED END SECTION WHEN LAST FULL HEIGHT BARRIER SECTION IS GREATER THAN 3.66m OFF OF EDGE OF TRAVEL LANE. IF LAST FULL HEIGHT SECTION OF BARRIER IS LESS THAN 3.66m OFF OF EDGE OF TRAVEL LANE, PROVIDE APPROVED TEMPORARY ATTENUATOR, REDIRECTIVE, ITEM 619.1803M.



NOTE:
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

As Built Revisions

DATE	DESCRIPTION	BY	SYM.
4/09	T.C.B. Eliminated MPT Plan not Req	JP	A

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
INSTALLATION OF ITS DEVICES
I-90 VAR. LOC. SYRACUSE DIV.

LOCATION OF PROJECT
SYRACUSE DIVISION

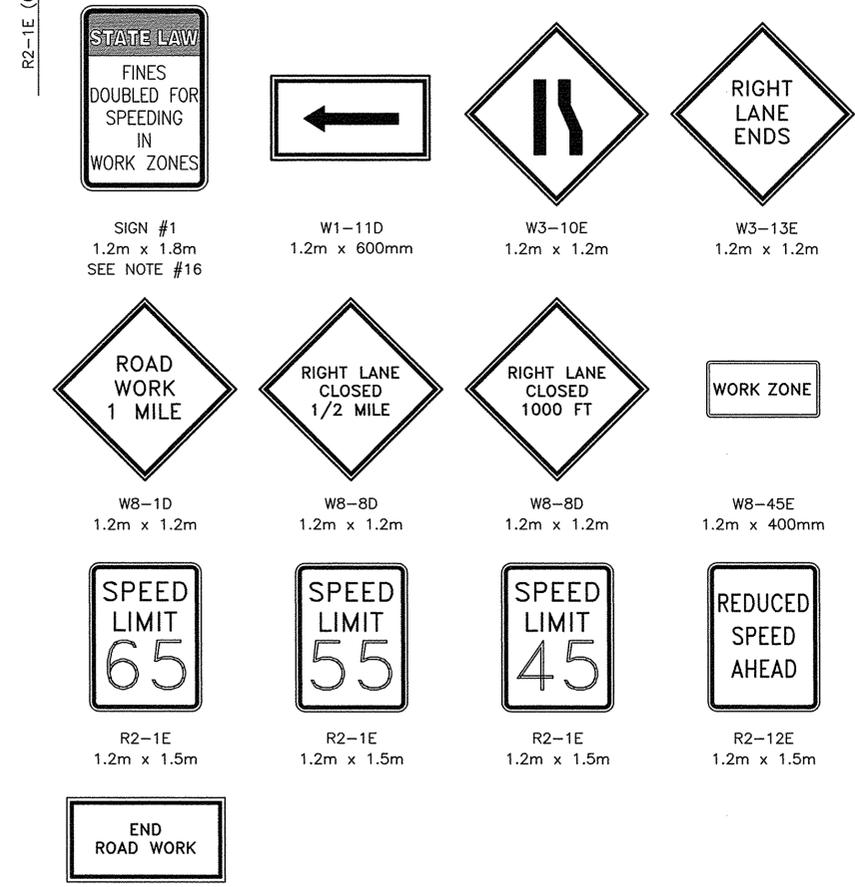
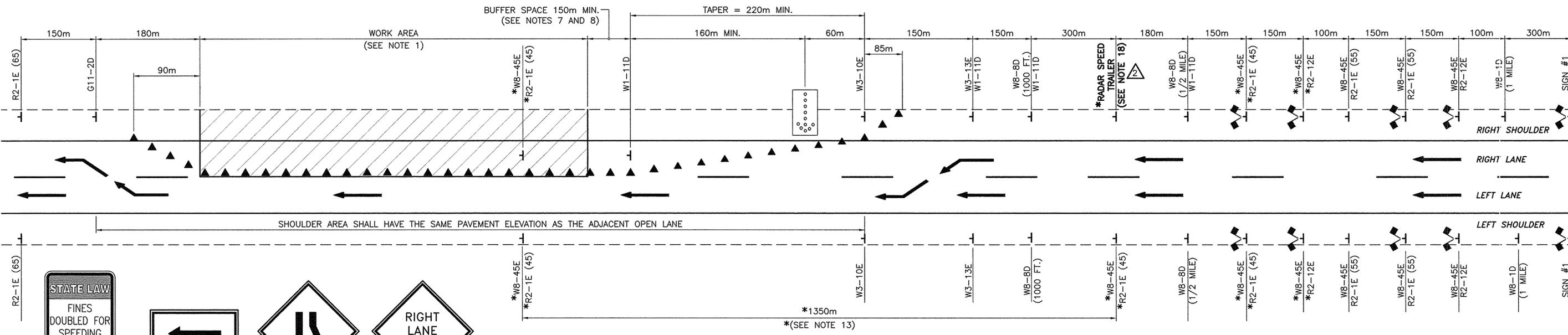
TITLE OF DRAWING
MPT PLAN
SITE D-6 M.P. 288.45 EB

CONTRACT NUMBER:
TAS 08-321

DATE:
JULY 30, 2008

DRAWING NUMBER:
MPT-3

IN CHARGE OF: J.A. DESIGNED BY: J.A. DRAFTED BY: CAD CHECKED BY: J. PEGARELLA SSS\Lane-Closure-DLY-65-M.dwg



WORK ZONE SPEED LIMIT POSTING GUIDELINES:

- FOR A DAILY LANE CLOSURE IN AN AREA WITH A NORMAL POSTED SPEED LIMIT OF 65 MPH:**
- A. POST THE WORK ZONE SPEED LIMIT AT 55 MPH WHEN:**
- THERE IS AT LEAST 2.4m SEPARATION BETWEEN WORKERS AND AN ACTIVE TRAVEL LANE;
 - THE ACTIVE TRAVEL LANE WIDTH IS EQUAL TO OR GREATER THAN 3.3m
- B. POST THE WORK ZONE SPEED LIMIT AT 45 MPH WHEN:**
- WORKERS ARE WITHIN 2.4m OF AN ACTIVE TRAVEL LANE;
 - THE ACTIVE TRAVEL LANE WIDTH IS REDUCED TO LESS THAN 3.3m;
 - AN UNPROTECTED DROP-OFF OF 100mm OR GREATER IS WITHIN 1.2m OF AN ACTIVE TRAVEL LANE;
 - THERE ARE SIGNIFICANT SIGHT DISTANCE RESTRICTIONS, AS DETERMINED BY THE ENGINEER.

NOTE: SPEED LIMIT REDUCTION SIGNING, WHEN REQUIRED, SHALL BE COVERED OR REMOVED UPON REMOVAL OF THE DAILY LANE CLOSURE.

NOTES:

- THE MAXIMUM LENGTH OF ANY CONTINUOUS LANE CLOSURE SHALL NOT EXCEED 4.8 KILOMETERS (3.2 KILOMETERS FOR MILL AND FILL PROJECTS). ALL TRAFFIC SHALL BE RE-ESTABLISHED TO ITS NORMAL LANE CONFIGURATION FOR A MINIMUM 3.2 KILOMETERS PRIOR TO A SUCCESSIVE LANE CLOSURE. ALL LANE CLOSURES SHALL BE SUBJECT FOR REVIEW AND APPROVAL BY THE ENGINEER.
- ALL SIGNS MAY BE FOUND IN THE NEW YORK STATE CODES, RULES AND REGULATIONS, TITLE 17(B) - DEPARTMENT OF TRANSPORTATION, CHAPTER V - UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL "W" SERIES SIGNS SHALL BE BLACK ON FLUORESCENT ORANGE. ALL REFLECTORIZED SIGN BACKGROUNDS SHALL BE CLASS "B" OR "C" REFLECTIVE SHEETING.
- THE PLAN SHOWN IS FOR A RIGHT LANE CLOSURE. THIS PLAN SHALL BE MODIFIED FOR A LEFT LANE CLOSURE BY CHANGING SIGNS W1-11D TO W1-12D, W8-8D TO W8-7D, W3-10E TO W3-9E, AND W3-13E TO W3-12E. THE LEFT LANE CLOSURE SHALL BE THE MIRROR IMAGE OF THE RIGHT LANE CLOSURE.
- FOR A RIGHT LANE CLOSURE IN AN AREA WHERE THE USABLE LEFT SHOULDER/MEDIAN IS LESS THAN 1.8m, LEFT SIDE SIGNS SHALL BE MOUNTED ON THE MEDIAN BARRIER. IF THE TOTAL MEDIAN WIDTH IS LESS THAN 1.8m, LEFT SIDE SIGNING WILL NOT BE REQUIRED.
- FOR A LEFT LANE CLOSURE IN AN AREA WHERE THE USABLE LEFT SHOULDER/MEDIAN IS LESS THAN 1.8m, LEFT SIDE SIGNS SHALL BE MOUNTED ON THE MEDIAN BARRIER. IF THE TOTAL MEDIAN WIDTH IS LESS THAN 1.8m, LEFT SIDE SIGNING WILL NOT BE REQUIRED, BUT THE W8-7D AND THE G11-2D SIGNS SHALL BE PLACED ON THE RIGHT SHOULDER. NO W1-12D SUBPANELS SHALL BE INCLUDED ON THE RIGHT SHOULDER.
- ON ROADWAY SECTIONS WHERE THE USABLE LEFT SHOULDER/MEDIAN IS LESS THAN 2.4m, THE STANDARD TRAFFIC CONTROL PLAN FOR A MOVABLE LANE CLOSURE (NARROW SHOULDER) SHALL BE USED TO INSTALL/REMOVE TRAFFIC CONTROL DEVICES AND SIGNS ALONG THE LEFT SHOULDER. THE SAME SHALL ALSO BE USED TO COVER/UNCOVER PREVIOUSLY INSTALLED SIGNS ALONG THE LEFT SHOULDER.

LEGEND

- WHITE RETROREFLECTORIZED SHEETING, CLASS C (3M, 3910 SERIES OR EQUAL)
- ORANGE RETROREFLECTORIZED SHEETING, CLASS C (3M, 3910 SERIES OR EQUAL)
- NON-REFLECTORIZED ORANGE
- APPROVED REFLECTORIZED WHITE BAND OR COLLAR (CLASS B OR C) REQUIRED FOR NIGHT USE.

*SIGN ONLY IF REQUIRED BY: WORK ZONE SPEED LIMIT POSTING GUIDELINES

- THE MINIMUM BUFFER SPACE LENGTH SHALL BE 150m. THE LENGTH OF THE BUFFER SPACE SHALL BE EXTENDED, AS ORDERED BY THE ENGINEER, TO ENSURE ADEQUATE SIGHT DISTANCE FOR VEHICLES APPROACHING THE LANE CLOSURE TAPER.
- THE USE OF A SHADOW VEHICLE IS REQUIRED WHEN EITHER (1) WORKERS OR INSPECTORS IN A CLOSED LANE ARE WORKING FROM ACCESS DEVICES SUCH AS LADDERS, SCAFFOLDING, MAN-LIFTS, BUCKET TRUCKS, PLATFORMS, ETC., OR (2) IT IS NOT POSSIBLE TO PROVIDE THE MINIMUM BUFFER SPACE SHOWN.

IF A SHADOW VEHICLE IS UTILIZED, IT SHALL BE PLACED UPSTREAM OF THE WORK AREA IN ACCORDANCE WITH THE FOLLOWING TABLE:

APPROACH SPEED	RECOMMENDED BUFFER DISTANCE*
90 - 100 km/H	53m
70 - 90 km/H	38m
LESS THAN 70 km/H	30m

*THE BUFFER DISTANCE IS THE DISTANCE FROM THE FRONT OF THE SHADOW VEHICLE TO THE BEGINNING OF THE WORK AREA.

THE SHADOW VEHICLE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 619-1.02N OF THE STANDARD SPECIFICATIONS. THE COST OF THE SHADOW VEHICLE SHALL BE INCLUDED AND PAID UNDER THE BASIC MAINTENANCE AND PROTECTION OF TRAFFIC ITEM.

- THE FLASHING ARROW PANEL SHALL CONFORM TO SECTION 294.5 OF THE MUTCD. THE MINIMUM SIZE SHALL BE TYPE "C" (2.4m x 1.2m). THE FLASHING ARROW PANEL SHALL DISPLAY A FULL ARROW FLASH ONLY. CHEVRONS AND SEQUENTIAL ARROW FLASHES ARE NOT ALLOWED.
- FOR NIGHTTIME OPERATIONS, ALL PROVISIONS OF SECTION 619-3.13 OF THE STANDARD SPECIFICATIONS SHALL APPLY. IN ADDITION, DRUMS OR VERTICAL PANELS AT 12m SPACINGS SHALL BE REQUIRED FOR TAPER SECTIONS, AND 900mm CONES AT 12m SPACINGS SHALL BE REQUIRED ALONG TANGENT SECTIONS.

- THE TRAFFIC SUPERVISOR SHALL APPROVE THE CONDITION OF ALL TRAFFIC CONTROL DEVICES PRIOR TO USE. THE TRAFFIC SUPERVISOR SHALL ALSO REVIEW THE PROPOSED TRAFFIC CONTROL PATTERN (FOR PRECISE DEVICE POSITIONING) PRIOR TO INSTALLATION.
- SIGN SUPPORTS SHALL PROVIDE A MINIMUM MOUNTING HEIGHT OF 1.5m FROM THE PAVEMENT TO THE SIGN BOTTOM. SIGN SUPPORTS SHALL ALSO RESIST OVERTURNING IN WINDS. SIGN SHALL BE PLACED AT, OR AS NEAR AS PRACTICABLE TO, THE LOCATIONS SHOWN. LATERAL PLACEMENT OF SIGNS SHALL CONFORM TO SECTIONS 201.5 AND/OR 301.2 OF THE MUTCD.
- WHEN THE DISTANCE BETWEEN THE SECOND R2-1E (45) SIGN AND THE END OF THE WORK ZONE EXCEEDS 1350m, ADDITIONAL R2-1E (45) SIGNS SHALL BE PLACED IN THE WORK ZONE TO MAINTAIN A MAXIMUM SPACING OF 1350m. NOTE THAT ADDITIONAL SIGNS MAY BE NEEDED JUST BEYOND ANY ENTRANCE RAMP THAT TERMINATES WITHIN THE WORK ZONE SIGNING.
- EXISTING SPEED LIMIT SIGNS WITHIN THE WORK ZONE SHALL BE COVERED TO AVOID CONFLICT WITH THE WORK ZONE SPEED LIMIT SIGNS.
- EXISTING PAVEMENT MARKINGS SHALL BE MAINTAINED BY THE CONTRACTOR WITHIN THE PROJECT LIMITS.

- SEE PROPOSAL FOR SIGN FACE LAYOUT.
- THIS SHEET APPLIES TO TWO, THREE, AND FOUR LANE SECTIONS.
- WHEN NOT IN OPERATION, THE SPEED DISPLAY TRAILER SHALL BE REMOVED FROM THE TRAFFIC CONTROL PATTERN AND REPLACED WITH A W8-45E/R2-1E (45) STATIC SPEED LIMIT SIGN.

LEGEND

- EXISTING PAVEMENT MARKINGS (CENTER AND EDGE LINES)
- TRAFFIC CONES @ 12m SPACING ON TAPER AND TANGENT
- SIGNS
- FLASHING ARROW PANEL
- CONSTRUCTION FLAG

No As Built Revisions

DATE	DESCRIPTION	BY	SYM.
2/07	CONE SPACING CHANGE	J.P.	3
2/07	SPEED LIMIT GUIDELINES	J.P.	2
8/06	SHEETING SPEC. CHANGE	J.P.	1

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

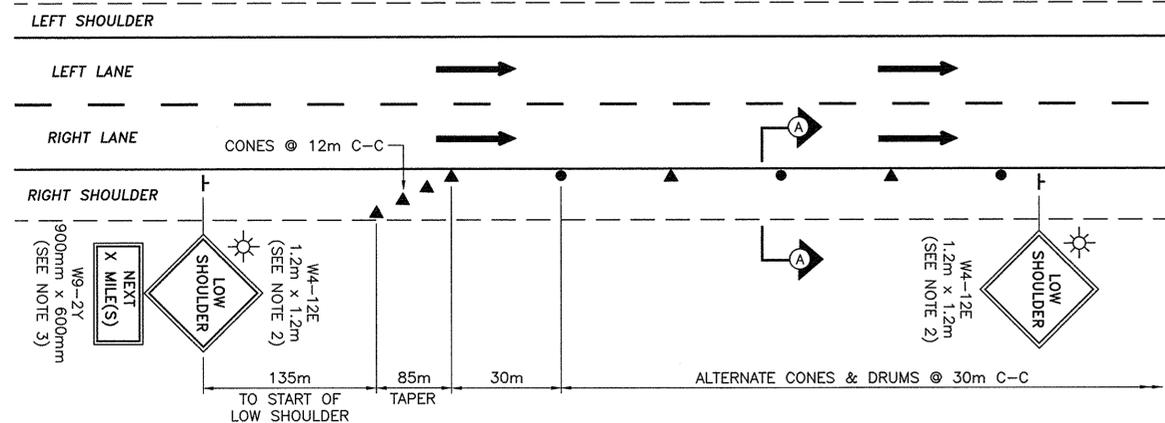
TITLE OF PROJECT: INSTALLATION OF ITS DEVICES
1-90 VAR. LOC. SYRACUSE DIVISION
LOCATION OF PROJECT: SYRACUSE DIVISION
TITLE OF DRAWING: LANE CLOSURE (DAILY)
(65 MPH SPEED LIMIT ZONES)

CONTRACT NUMBER: TAS 08-321
DATE: 5/05
DRAWING NUMBER: LCD-65 (M)

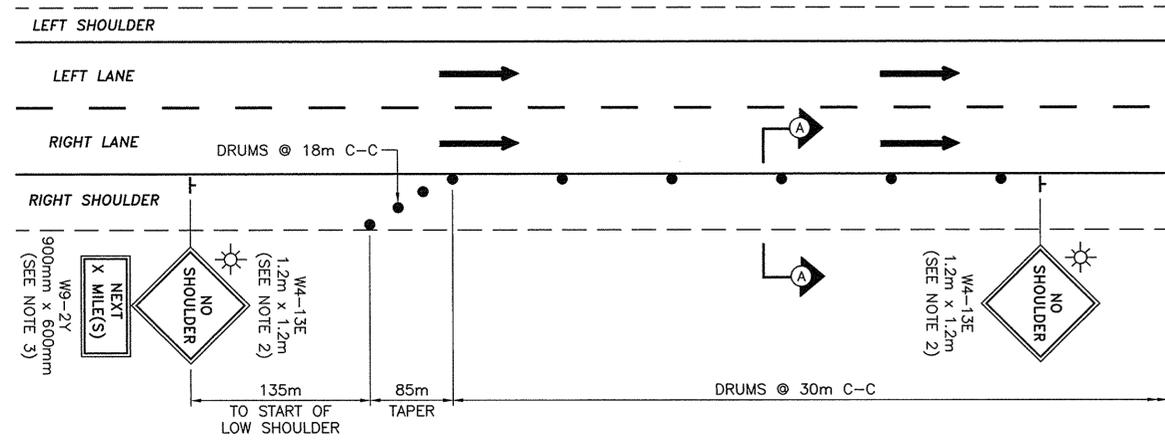
CHANNELIZING DEVICES
N.T.S.

* THESE DEVICES ARE OPTIONAL, WITH THE APPROVAL OF THE ENGINEER, TUBULAR MARKERS MAY BE SUBSTITUTED FOR CONES AND VERTICAL PANELS MAY BE SUBSTITUTED FOR PLASTIC DRUMS.

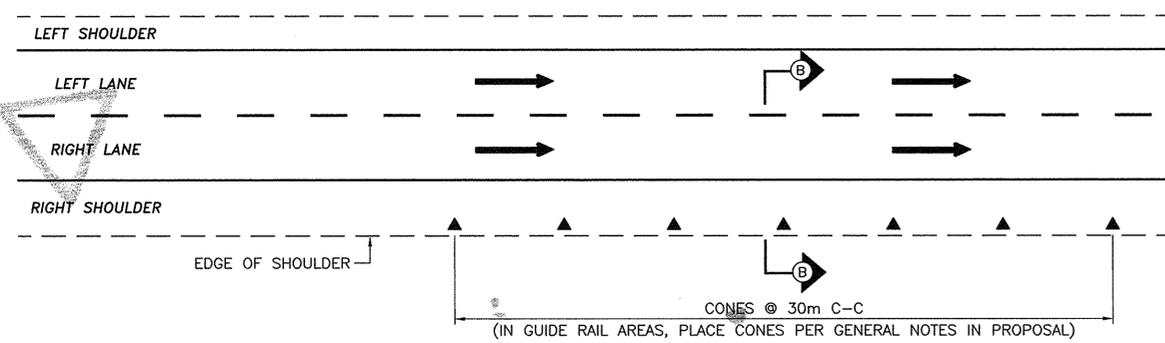
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 CHECKED BY: J. PECARELLA
 DRAFTED BY: CAD
 DESIGNED BY: IA
 IN CHARGE OF: IA



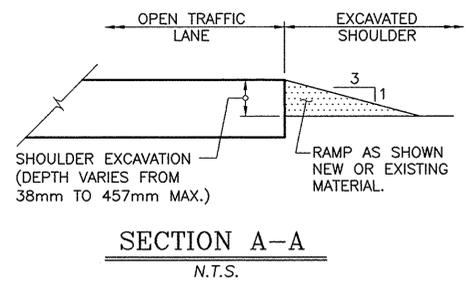
TRAFFIC CONTROL PLAN FOR AREAS WITH SHOULDER DROP OF 38mm TO 102mm
N.T.S.



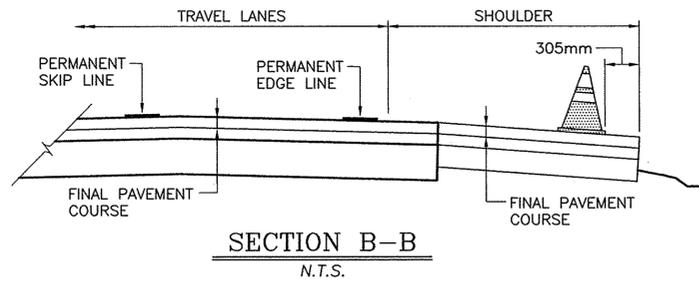
TRAFFIC CONTROL PLAN FOR AREAS WITH SHOULDER DROP OF 102mm TO 457mm
N.T.S.



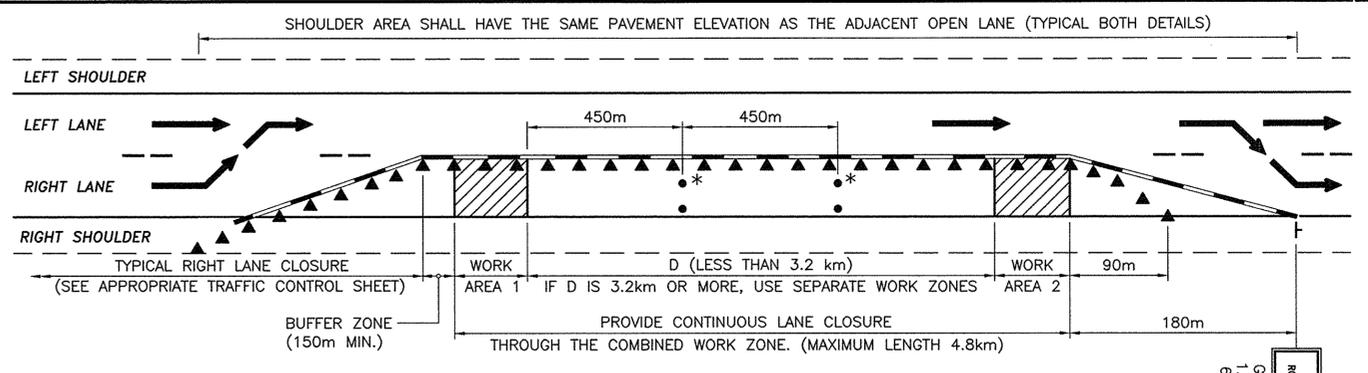
TRAFFIC CONTROL PLAN FOR AREAS WITHOUT SHOULDER BACK-UP INSTALLED
N.T.S.



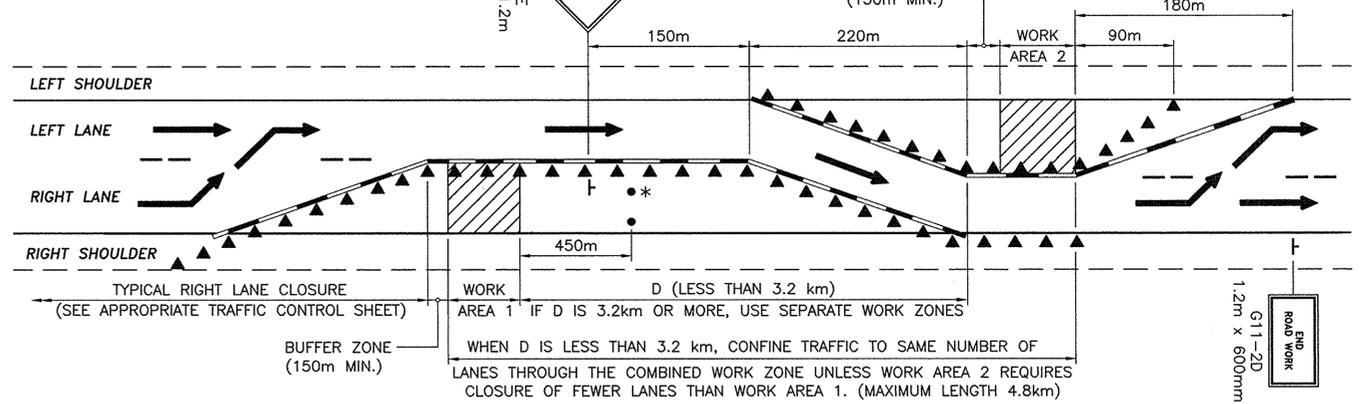
SECTION A-A
N.T.S.



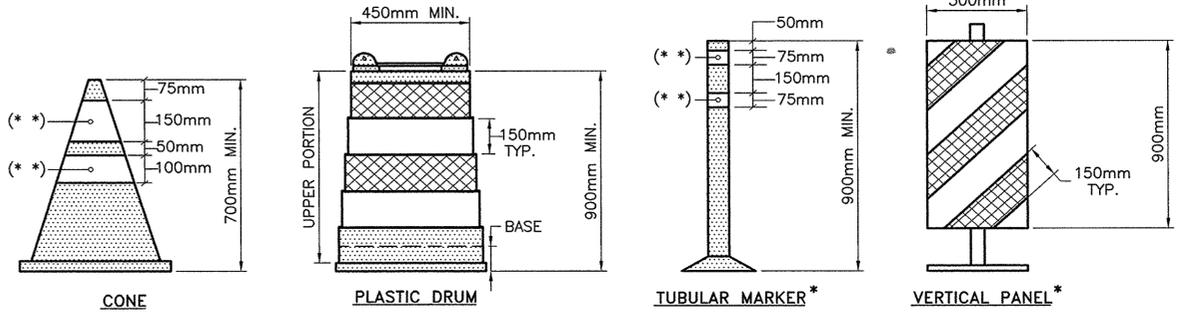
SECTION B-B
N.T.S.



* PLACE TWO DRUMS IN CLOSED LANE EVERY 450m.



SUCCESSIVE WORK ZONES - TWO LANE SECTIONS
(THREE LANE SECTIONS SIMILAR)
N.T.S.



CHANNELIZING DEVICES
N.T.S.

* THESE DEVICES ARE OPTIONAL. WITH THE APPROVAL OF THE ENGINEER, TUBULAR MARKERS MAY BE SUBSTITUTED FOR CONES AND VERTICAL PANELS MAY BE SUBSTITUTED FOR PLASTIC DRUMS.

NOTE "A"

EXISTING PAVEMENT MARKINGS SHALL BE MAINTAINED BY THE CONTRACTOR WITHIN THE PROJECT LIMITS. IF THE CONTRACTOR'S OPERATIONS IN ANY WORK AREA WILL EXCEED A PERIOD OF 2 (TWO) WEEKS, OR IF DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL COMPLETELY REMOVE PORTIONS OF THE EXISTING MARKINGS AND INSTALL TEMPORARY MARKINGS AS DETAILED ON THIS SHEET. TEMPORARY MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD, CONTRACT PLANS AND/OR PROPOSAL.

WHEN ALL WORK IS COMPLETED IN THE WORK AREA, OR AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE THE TEMPORARY MARKINGS AND RESTORE THE EXISTING MARKINGS.

NOTES FOR SHOULDER EXCAVATION PROTECTION:

1. THE PLANS SHOWN ARE FOR RIGHT SHOULDER PROTECTION. LEFT SHOULDER PROTECTION SHALL BE THE MIRROR IMAGE OF THE SAME DETAILS. ONLY THE RIGHT OR LEFT SHOULDER MAY BE WORKED ON AT ONE TIME.
2. THE W4-12E (OR W4-13E) SIGN SHALL BE REPEATED EVERY 300m.
3. THE W9-2Y SIGN SHALL BE PLACED ON THE FIRST W4-12E (OR W4-13E) SIGN AND EACH SUBSEQUENT SIGN NEAREST 800m WHEN THE AREA BEING PROTECTED EXCEEDS 800m IN LENGTH.
4. DRUMS AND CONES SHALL BE PLACED AND MAINTAINED SUCH THAT AT LEAST TWO-THIRDS OF THEIR HEIGHT IS EXPOSED ABOVE THE PAVEMENT.
5. IF THE DEPTH OF EXCAVATION EXCEEDS 457mm, THE ADJACENT LANE SHALL REMAIN CLOSED, OR TEMPORARY CONCRETE BARRIER SHALL BE USED TO PROTECT THE CONDITION.
6. EXCAVATED SHOULDER SHALL BE RAMPED DOWN (SECTION A-A) DURING NON-WORK HOURS.

LEGEND

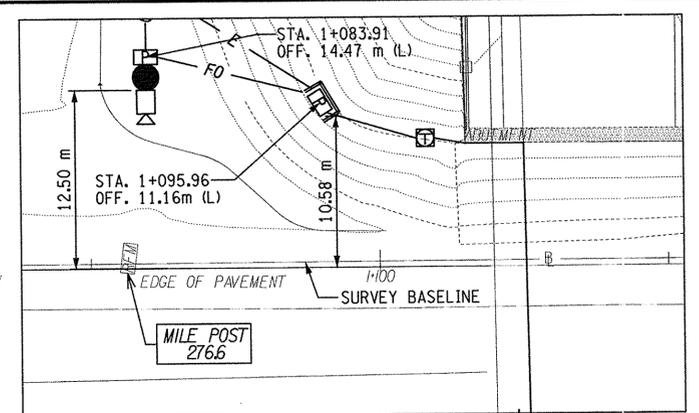
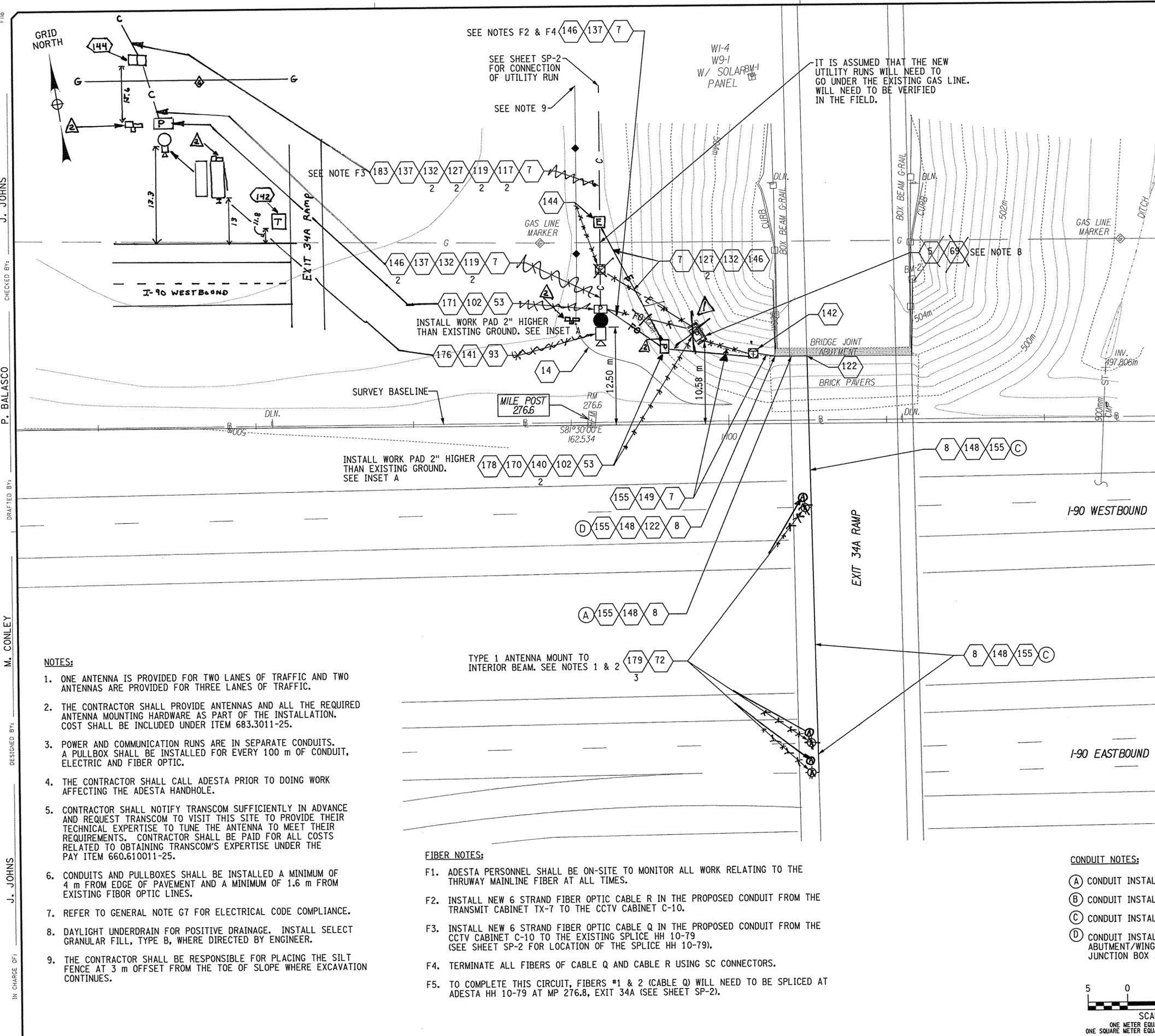
- ▲ TRAFFIC CONE
- DRUM
- ☼ FLASHING LIGHT, LOW INTENSITY, FOR NIGHT USE OR A.O.B.E.
- ⊥ SIGN (ALL "W" SERIES SIGNS TO BE BLACK ON FLUORESCENT ORANGE)
- REMOVAL OF EXISTING PAVEMENT MARKINGS (SEE NOTE A)
- TEMPORARY PAVEMENT MARKING FOR CONSTRUCTION. (SEE NOTE A)
- WHITE RETROREFLECTORIZED SHEETING, CLASS C (3M, 3910 SERIES OR EQUAL)
- ▨ ORANGE RETROREFLECTORIZED SHEETING, CLASS C (3M, 3910 SERIES OR EQUAL)
- ▤ NON-REFLECTORIZED ORANGE
- (*) APPROVED REFLECTORIZED WHITE BAND OR COLLAR (CLASS B OR C) REQUIRED FOR NIGHT USE.

No As Built Revisions

DATE	DESCRIPTION	BY	SYM.
8/06	SHEETING SPEC. CHANGE	J.P.	△
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIVISION LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING THRUWAY TRAFFIC PLANS FOR MISCELLANEOUS OPERATIONS			
CONTRACT NUMBER:		TAS 08-32I	
DATE:		6/03	
DRAWING NUMBER:		MO (M)	



J. JOHNS
 P. BALASSO
 M. CONLEY
 J. JOHNS
 IN CHARGE OF:

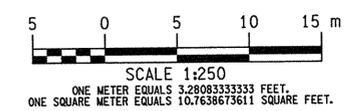


INSET A-CABINET LOCATION

- NOTES:**
- ONE ANTENNA IS PROVIDED FOR TWO LANES OF TRAFFIC AND TWO ANTENNAS ARE PROVIDED FOR THREE LANES OF TRAFFIC.
 - THE CONTRACTOR SHALL PROVIDE ANTENNAS AND ALL THE REQUIRED ANTENNA MOUNTING HARDWARE AS PART OF THE INSTALLATION. COST SHALL BE INCLUDED UNDER ITEM 683.3011-25.
 - POWER AND COMMUNICATION RUNS ARE IN SEPARATE CONDUITS. A PULLBOX SHALL BE INSTALLED FOR EVERY 100 m OF CONDUIT, ELECTRIC AND FIBER OPTIC.
 - THE CONTRACTOR SHALL CALL ADESTA PRIOR TO DOING WORK AFFECTING THE ADESTA HANDHOLE.
 - CONTRACTOR SHALL NOTIFY TRANSCOM SUFFICIENTLY IN ADVANCE AND REQUEST TRANSCOM TO VISIT THIS SITE TO PROVIDE THEIR TECHNICAL EXPERTISE TO TUNE THE ANTENNA TO MEET THEIR REQUIREMENTS. CONTRACTOR SHALL BE PAID FOR ALL COSTS RELATED TO OBTAINING TRANSCOM'S EXPERTISE UNDER THE PAY ITEM 660.610011-25.
 - CONDUITS AND PULLBOXES SHALL BE INSTALLED A MINIMUM OF 4 m FROM EDGE OF PAVEMENT AND A MINIMUM OF 1.6 m FROM EXISTING FIBER OPTIC LINES.
 - REFER TO GENERAL NOTE G7 FOR ELECTRICAL CODE COMPLIANCE.
 - DAYLIGHT UNDERDRAIN FOR POSITIVE DRAINAGE. INSTALL SELECT GRANULAR FILL, TYPE B, WHERE DIRECTED BY ENGINEER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING THE SILT FENCE AT 3 m OFFSET FROM THE TOE OF SLOPE WHERE EXCAVATION CONTINUES.

- FIBER NOTES:**
- ADESTA PERSONNEL SHALL BE ON-SITE TO MONITOR ALL WORK RELATING TO THE THRUWAY MAINLINE FIBER AT ALL TIMES.
 - INSTALL NEW 6 STRAND FIBER OPTIC CABLE R IN THE PROPOSED CONDUIT FROM THE TRANSMIT CABINET TX-7 TO THE CCTV CABINET C-10.
 - INSTALL NEW 6 STRAND FIBER OPTIC CABLE Q IN THE PROPOSED CONDUIT FROM THE CCTV CABINET C-10 TO THE EXISTING SPLICE HH 10-79 (SEE SHEET SP-2 FOR LOCATION OF THE SPLICE HH 10-79).
 - TERMINATE ALL FIBERS OF CABLE Q AND CABLE R USING SC CONNECTORS.
 - TO COMPLETE THIS CIRCUIT, FIBERS #1 & 2 (CABLE Q) WILL NEED TO BE SPLICED AT ADESTA HH 10-79 AT MP 276.8, EXIT 34A (SEE SHEET SP-2).

- CONDUIT NOTES:**
- (A) CONDUIT INSTALLED ON ABUTMENT/WINGWALLS
 - (B) CONDUIT INSTALLED ON FACE OF PIERCAP
 - (C) CONDUIT INSTALLED ON SUPERSTRUCTURE
 - (D) CONDUIT INSTALLED VERTICALLY ON ABUTMENT/WINGWALL/PIER COLUMN WITH JUNCTION BOX AT TOP OF CONDUIT.

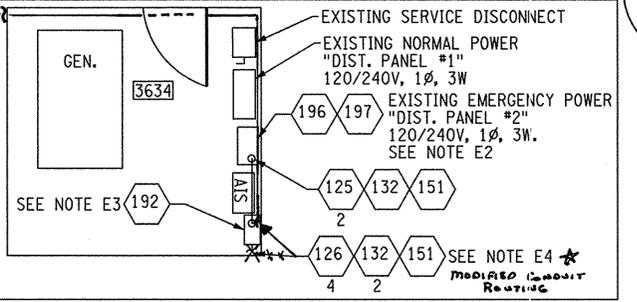
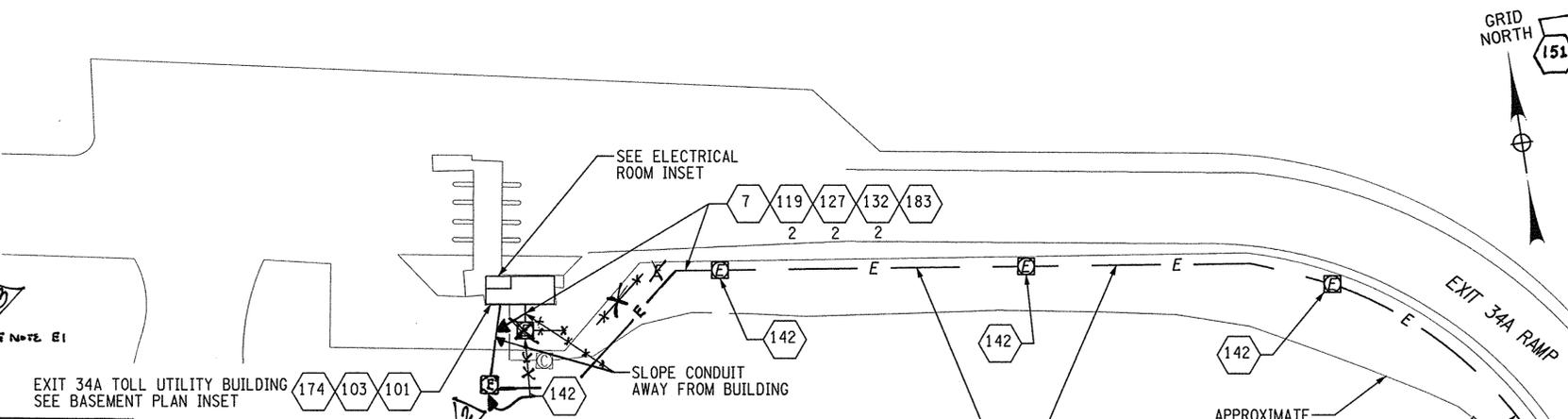
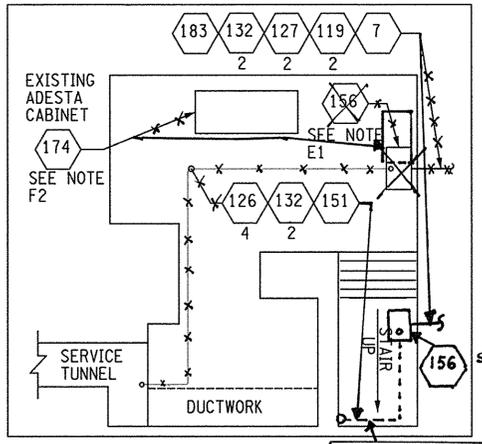


As Built Revisions
 NOTE:
 ALL DIMENSIONS ARE IN METERS
 UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYM.
	Deleted Segment Wall	AP	6/6/08
	POWER RETRANSMIT	AP	6/6/08
	Camera / TRANSMIT	AP	6/6/08
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT I-90 MP 276.58 EB, DEWITT, NY			
TITLE OF DRAWING CCTV C-10 & TRANSMIT TX-7 PROPOSED SITE PLAN			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: SP-1			



Disc: NYSDOT
 Project: NY_Highway_Design
 Node: BALASCO-SP1
 PLOTTED BY: J. JOHNS
 Design File: 9/29/2008
 2:58:00 PM
 Checked By: P. BALASCO
 Drafted By: M. CONLEY
 Designed By: J. JOHNS
 In Charge Of: J. JOHNS



TUB BASEMENT PLAN

TUB ELECTRICAL ROOM

REF. #	ITEM #	DESCRIPTION	UNIT	QTY.
5	206.01	STRUCTURE EXCAVATION	CM	8
7	206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	M	692
8	206.0312-25	CONDUIT INSTALL ON ABOVE GRADE STRUCTURE	M	63
14	209.13	SILT FENCE - TEMPORARY	M	58
53	608.010101-25	WORK PAD 1.83 m x 1.22 m	EA	2
72	660.610011-25	REIMBURSEMENT TO TRANSCOM FOR FURNISHING UTILITY SERVICE	LS	-
69	632.15-17	SEGMENTAL BLOCK RETAINING WALL SYSTEM	SM	3
93	651.020015-25	CCTV CAMERA MOUNTING POLES	EA	1
101	651.990833-25	FIBER OPTIC SPLICE ENCLOSURE (DROP)	EA	2
102	651.990834-25	FIBER OPTIC PATCH PANEL	EA	2
103	651.990835-25	WALL MOUNTED FIBER SPLICE BOX	EA	1
117	662.741250-25	HDPE PLASTIC INNERDUCT 31.25 mm (1 1/4 IN) NOMINAL DIAMETER	M	428
119	670.7010	SINGLE CONDUCTOR CABLE, NO. 1/0 GAGE	M	1392
122	670.410915-11	GALV STL NEMA-4 TYPE JCT BX SURF MNT 203 mm X 203 mm X 152 mm	EA	2
125	670.7004	SINGLE CONDUCTOR CABLE, NO. 6 GAGE	M	4
126	670.7007	SINGLE CONDUCTOR CABLE, 12 GAGE	M	56
127	670.7020	SINGLE CONDUCTOR CABLE NO. 2.0 AWG 600V	M	1418
132	670.750601-25	GROUND WIRE 1/C NO. 6 AWG THWN 600V	M	1426
137	651.990831-25	FIBER OPTIC DISTRIBUTION CABLE (1 BUFFER TUBE, 6 FIBERS PER BUFFER TUBE)	M	246
140	645.830202	TYPE B SIGN POSTS, GALVANIZED, W150 x 13.5, BI-DIRECTIONAL BREAKAWAY BASE	EA	2
141	680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CM	2
142	680.510501	PULLBOX - RECTANGULAR 650 mm X 450 mm REINF. CONC.	EA	6
144	680.5109-25	PULLBOX - B	EA	4
146	680.520505	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 1-1/2 NPS	M	42
148	680.520105	CONDUIT, METAL STEEL, ZINC COATED, 1 1/2 NPS	M	63
149	680.520510	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 4 NPS	M	11
151	680.520103	CONDUIT, METAL STEEL, ZINC COATED, 1 NPS	M	16
153	650.1006	TRENCHLESS INSTAL. OF CASING UNDER HWY DIAM. 150 mm (6 NPS)	M	25
155	680.7752-25	TRANSMIT COAXIAL CABLE - TYPE B	M	77
156	670.410912-11	GALVANIZED STEEL NEMA-4 TYPE JUNCTION BOX SURFACE MOUNTED 457mm x 305mm x 254mm	EA	1
170	680.802004-25	CABINET FOR ITS EQUIPMENT (TRANSMIT)	EA	1
171	680.802003-25	CABINET FOR ITS EQUIPMENT (CCTV)	EA	1
174	651.990836-25	MISCELLANEOUS FIBER WORK	LS	-
176	680.990320-25	CCTV CAMERA SITE EQUIPMENT	EA	1
178	683.3010-25	TRANSMIT TAG READER	EA	1
179	683.3011-25	TRANSMIT ANTENNA	EA	3
183	680.520506	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 2 NPS	M	664
192	680.7007-08	CABINET -LOAD CENTER (LOAD CENTER AND BREAKERS ONLY)	EA	1
196	690.040001-05	SPECIALITY WORK (ELECTRICAL)	LS	NEC
197	657.0010-39	PANELBOARDS AND CIRCUIT BREAKERS (BREAKERS ONLY)	EA	1
198	904.0832	Power Supply RETROFIT (TRANSMIT)(CAMERA)	EA	2

- ELECTRICAL NOTES:**
- E1. MOUNT JUNCTION BOX 1.5 m AFF. TRANSITION CCTV AND ANTENNA EQUIPMENT POWER FEEDERS IN BOX, PROVIDE TERMINAL STRIP WITH LUGS SIZED AS REQUIRED FOR CABLE INDICATED.
 - E2. RELOCATE (2) EXISTING BRANCH CIRCUITS TO 12-POLE LOAD CENTER, EXTEND ASSOCIATED CIRCUITS AND CONDUIT AND RECONNECT. PROVIDE 2-POLE, 40 AMP BREAKER IN VACATED SPACES IN "DIST. PANEL #2" TO SERVE LOAD CENTER. BREAKER SHALL BE COMPATIBLE WITH EXISTING WESTINGHOUSE TYPE NQB PANEL. ALL ELECTRICAL WORK NOT COVERED UNDER WIRING AND CONDUITS WILL BE PAID UNDER THE ITEM 690.040001-05.
 - E3. PROVIDE 12-POLE LOAD CENTER, 100A M.L.O., 120/240V, 1Ø, 3W. PROVIDE WITH (2) 1P-20A BRANCH CIRCUIT BREAKERS AND (4) SPARE 1P-20A BRANCH CIRCUIT BREAKERS.
 - E4. CCTV AND ANTENNA EQUIPMENT POWER FEEDERS - ROUTE CONDUIT INTO SERVICE CHASE BELOW. SEE BASEMENT PLAN FOR CONTINUATION.

NOTE: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

As Built Revisions

6/30/10	add ref # 198 Power retrofit	J. Johnson	A
6/30/10	Conduit locations at ramp	J. Johnson	B
	TAB Layout	J. Johnson	C

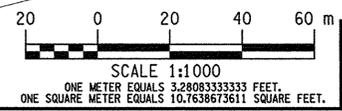
DATE	DESCRIPTION	BY	SYN.
REVISIONS			

NEW YORK STATE THRUWAY AUTHORITY
 DEPARTMENT OF ENGINEERING SERVICES
 200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
 INSTALLATION OF ITS DEVICES
 I-90 VAR. LOC. SYRACUSE DIV.
 LOCATION OF PROJECT
 I-90 MP 276.58 EB, DEWITT, NY

TITLE OF DRAWING
**CCTV C-10 &
 TRANSMIT TX-7
 PROPOSED SITE PLAN**

CONTRACT NUMBER:
 TAS 08-321
 DATE:
 JULY 30, 2008
 DRAWING NUMBER:
 SP-2

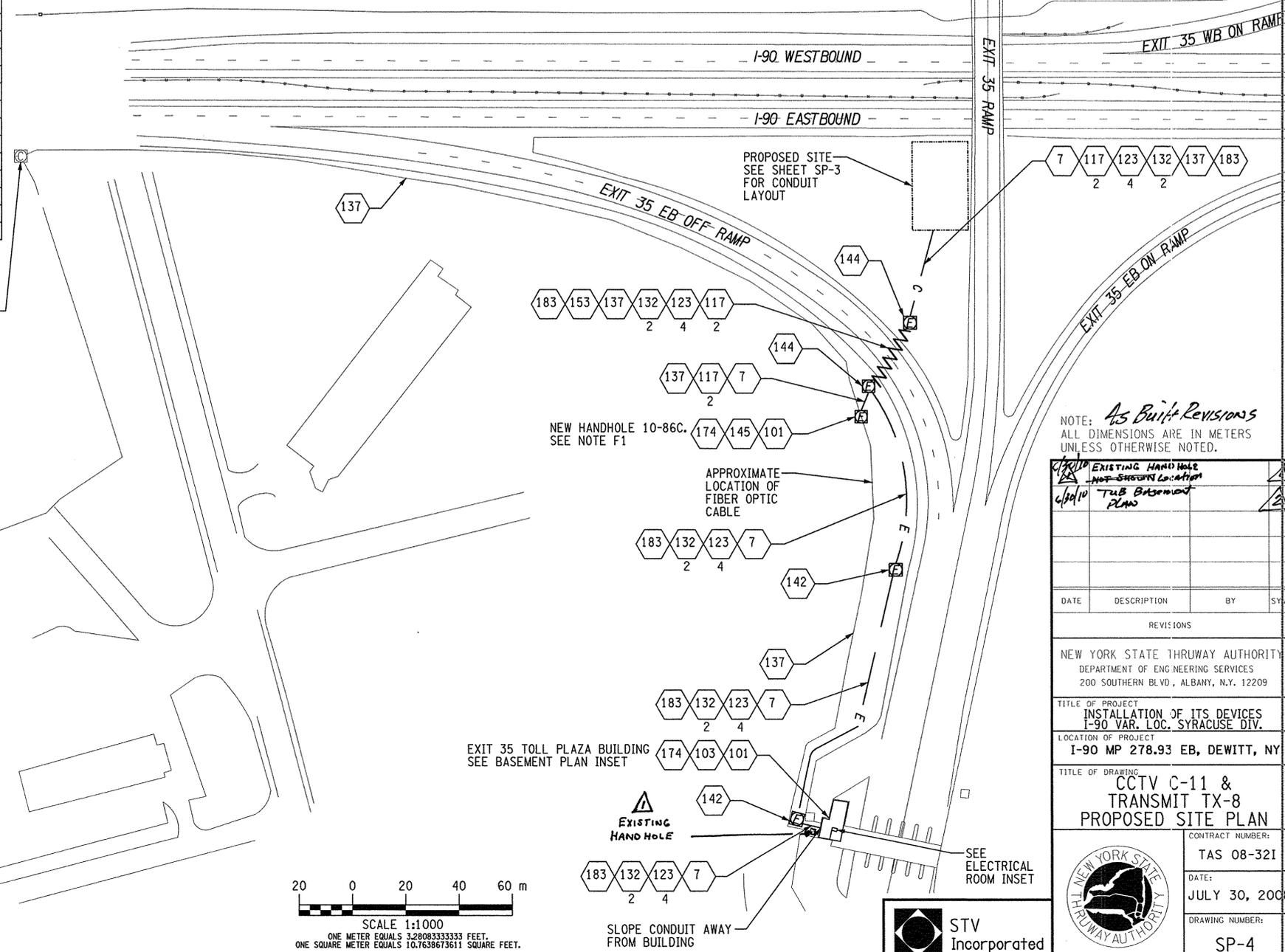
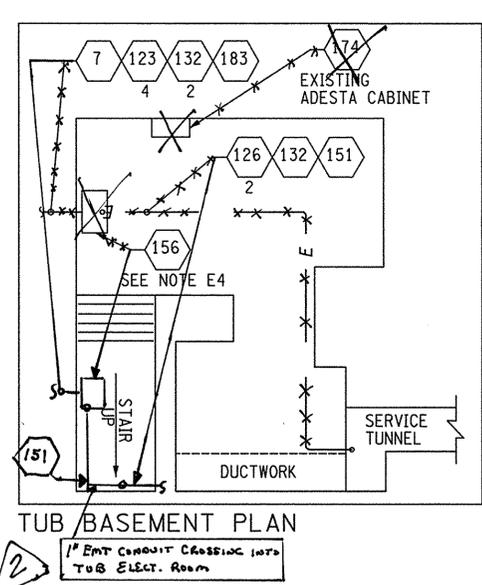
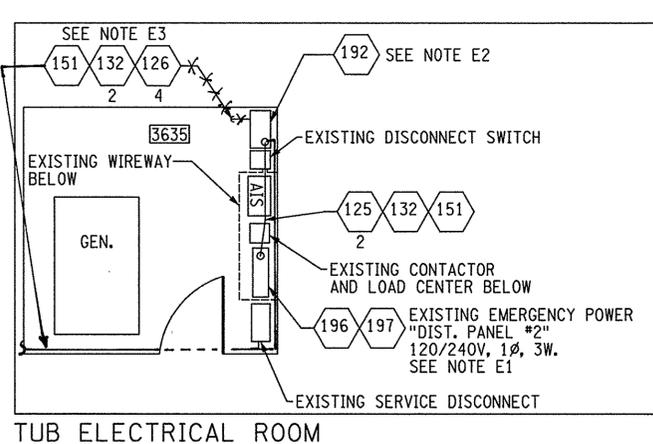


- FIBER NOTES:**
- F1. AT ADESTA SPLICE HH 10-79, SPLICE THE NEW FIBERS #1 & 2 (TUBE Q) TO EXISTING FEEDER FIBERS #1 & 2.
 - F2. TERMINATE FEEDER FIBERS #1 & 2 USING FC CONNECTORS, AT THE FIBER DISTRIBUTION PANEL INSIDE THE EXIT 34A TOLL UTILITY BUILDING. THIS WORK TO BE PAID UNDER THE PAY ITEM 651.990836-25 "MISCELLANEOUS FIBER WORK".

19R
 60

PLOTTED BY: P. BALASCO
 PROJECT: NY HIGHWAY DESIGN
 MODEL: BALASCO-SP1
 DATE: 7/29/2008
 CHECKED BY: J. JOHNS
 DESIGNED BY: M. CONLEY
 IN CHARGE OF: J. JOHNS
 DISCIPLINE: NYSDOT
 PROJECT: NY HIGHWAY DESIGN
 MODEL: BALASCO-SP1
 DATE: 7/29/2008

REF. #	ITEM #	DESCRIPTION	UNIT	QTY.
7	206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	M	323
8	206.0312-25	CONDUIT INSTALL ON ABOVE GRADE STRUCTURE	M	38
14	209.13	SILT FENCE - TEMPORARY	M	55
53	608.010101-25	WORK PAD 1.83 m x 1.22 m	EA	2
72	660.610011-25	REIMBURSEMENT TO TRANSCOM FOR FURNISHING UTILITY SERVICE	LS	-
93	651.020015-25	CCTV CAMERA MOUNTING POLES	EA	1
101	651.990833-25	FIBER OPTIC SPLICE ENCLOSURE (DROP)	EA	3
102	651.990834-25	FIBER OPTIC PATCH PANEL	EA	2
103	651.990835-25	WALL MOUNTED FIBER SPLICE BOX	EA	1
117	662.741250-25	HDPE PLASTIC INNERDUCT 31.25 mm (1 1/4 IN) NOMINAL DIAMETER	M	196
122	670.410915-11	GALV STL NEMA-4 TYPE JCT BX SURF MNT 203 mm X 203 mm X 152 mm	EA	1
123	670.7002	SINGLE CONDUCTOR CABLE, 2 GAGE	M	1208
125	670.7004	SINGLE CONDUCTOR CABLE, NO. 6 GAGE	M	26
126	670.7007	SINGLE CONDUCTOR CABLE, 12 GAGE	M	32
132	670.750601-25	GROUND WIRE 1/C NO. 6 AWG THWN 600V	M	642
137	651.990831-25	FIBER OPTIC DISTRIBUTION CABLE (1 BUFFER TUBE, 6 FIBERS PER BUFFER TUBE)	M	635
140	645.830202	TYPE B SIGN POSTS, GALVANIZED, W150 X 13.5, BI-DIRECTIONAL BREAKAWAY BASE	EA	2
141	680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CM	2
142	680.510501	PULLBOX - RECTANGULAR 650 mm X 450 mm REINF. CONC.	EA	3
144	680.5109-25	PULLBOX - B	EA	3
145	680.5196-25	CONCRETE FIBER OPTIC PULLBOX	EA	1
146	680.520505	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 1-1/2 NPS	M	301
148	680.520105	CONDUIT, METAL STEEL, ZINC COATED, 1 1/2 NPS	M	38
149	680.520510	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 4 NPS	M	18
151	680.520103	CONDUIT, METAL STEEL, ZINC COATED, 1 NPS	M	17
153	650.1006	TRENCHLESS INSTAL. OF CASING UNDER HWY DIAM. 150 mm (6 NPS)	M	28
155	680.7752-25	TRANSMIT COAXIAL CABLE - TYPE B	M	59
156	670.410912-11	GALVANIZED STEEL NEMA-4 TYPE JUNCTION BOX SURFACE MOUNTED 457mm x 305mm x 254mm	EA	1
170	680.802004-25	CABINET FOR ITS EQUIPMENT (TRANSMIT)	EA	1
171	680.802003-25	CABINET FOR ITS EQUIPMENT (CCTV)	EA	1
174	651.990836-25	MISCELLANEOUS FIBER WORK	LS	-
176	680.990320-25	CCTV CAMERA SITE EQUIPMENT	EA	1
178	683.3010-25	TRANSMIT TAG READER	EA	1
179	683.3011-25	TRANSMIT ANTENNA	EA	3
183	680.520506	TRAFFIC SIGNAL CONDUIT, RIGID, PLASTIC, CLASS 1, 2 NPS	M	1946
192	680.7007-08	CABINET -LOAD CENTER (LOAD CENTER AND BREAKERS ONLY)	EA	1
196	690.040001-05	SPECIALITY WORK (ELECTRICAL)	LS	NEC
197	657.0010-39	PANELBOARDS AND CIRCUIT BREAKERS (BREAKERS ONLY)	EA	1



- FIBER NOTES:**
- INSTALL NEW HANDHOLE HH 10-86C AT THE LOCATION SHOWN.
 - INSTALL NEW 6 STRAND CABLE HH 10-86B TO THE BASEMENT OF THE TUB AT EXIT 35.
 - INSTALL NEW 6 STRAND FIBER OPTIC CABLE S IN THE PROPOSED CONDUIT FROM THE CCTV CABINET THROUGH THE PROPOSED HH 10-86C AND INTO THE TUB THROUGH THE EXISTING EMPTY THRUWAY CONDUIT.
 - TERMINATE ALL FIBER CABLES USING SC CONNECTORS.
 - AT EXISTING HH 10-86B, SPLICE NEW FIBERS #1 & 2 ONTO EXISTING FEEDER CABLES #1 & 2 GOING TO THE SYRACUSE DIVISION OFFICE.

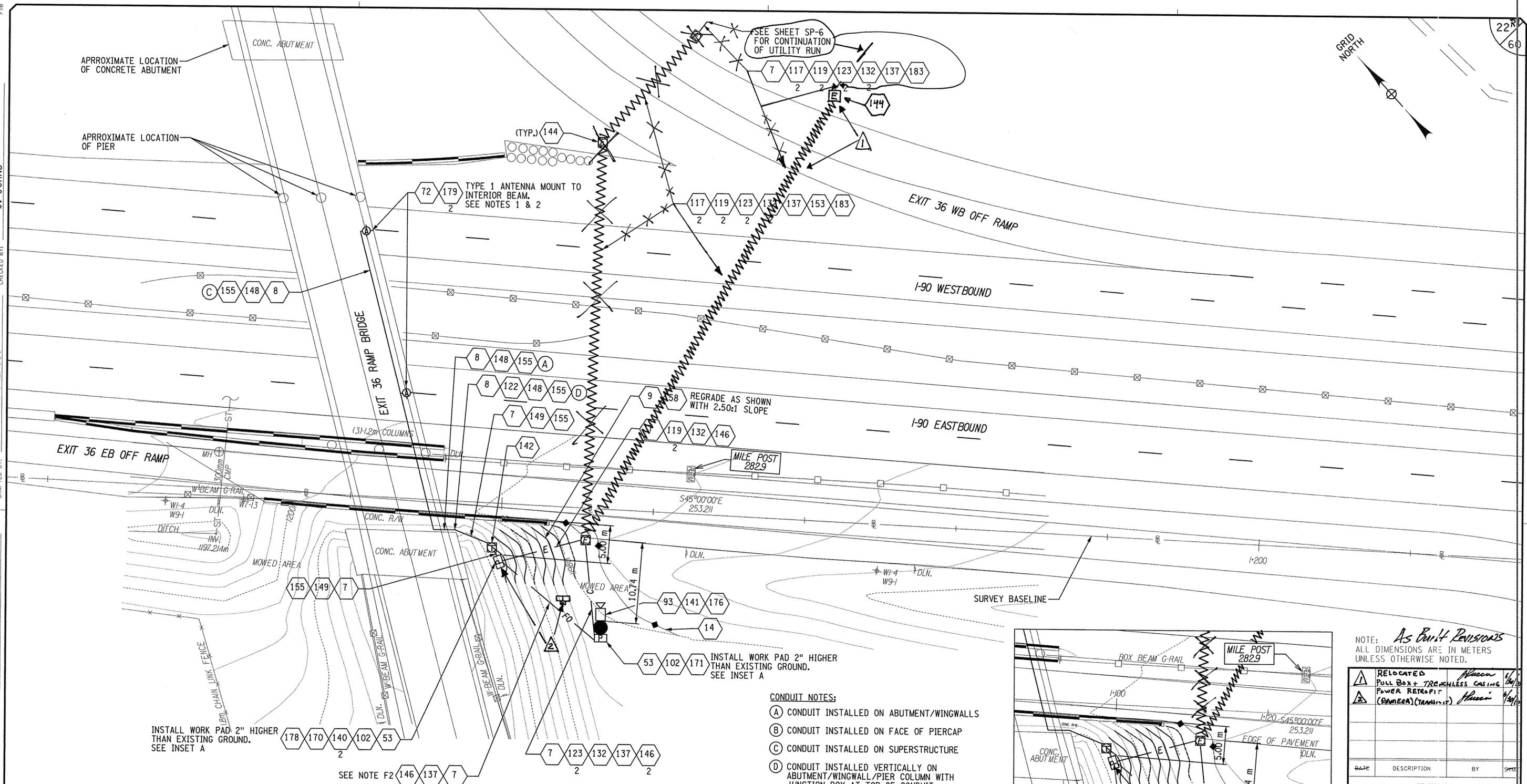
- ELECTRICAL NOTES:**
- RELOCATE (2) EXISTING BRANCH CIRCUITS TO NEW 12-POLE LOAD CENTER, EXTEND ASSOCIATED WIRING AND CONDUIT AND RECONNECT. PROVIDE 2P-40A BREAKER IN VACATED SPACES IN EXISTING EMERGENCY POWER PANEL TO SERVE LOAD CENTER. BREAKER SHALL BE COMPATIBLE WITH EXISTING SQUARE D TYPE QO LOAD CENTER. ALL ELECTRICAL WORK NOT COVERED UNDER WIRING AND CONDUITS WILL BE PAID UNDER THE ITEM 690.040001-05.
 - PROVIDE 12-POLE LOAD CENTER, 100A M.L.O., 120/240V, 1Ø, 3W. PROVIDE (2) 1P-20A BRANCH CIRCUIT BREAKERS FOR CCTV AND ANTENNA EQUIPMENT POWER AND (4) SPARE 1P-20A BRANCH CIRCUIT BREAKERS.
 - CCTV AND ANTENNA EQUIPMENT POWER FEEDERS - ROUTE CONDUIT INTO SERVICE CHASE BELOW. SEE BASEMENT PLAN FOR CONTINUATION.
 - MOUNT JUNCTION BOX 1.5 m AFF. TRANSITION CCTV AND ANTENNA EQUIPMENT POWER FEEDERS IN BOX. PROVIDE TERMINAL STRIP WITH LUGS SIZED AS REQUIRED FOR CABLE INDICATED.

NOTE: *As Built Revisions*
 ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYD.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT I-90 MP 278.93 EB, DEWITT, NY			
TITLE OF DRAWING CCTV C-11 & TRANSMIT TX-8 PROPOSED SITE PLAN			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: SP-4			



Disc: NYSDOT
 Project: NY Thruway Design
 Design File: BALASCO-SP1
 Plotted By: potasco
 Design File: BALASCO-SP1
 Date: 9/29/2008 2:58:05 PM
 Checked By: J. JOHNS
 Drafted By: P. BALASCO
 Designed By: M. CONLEY
 In Charge Of: J. JOHNS

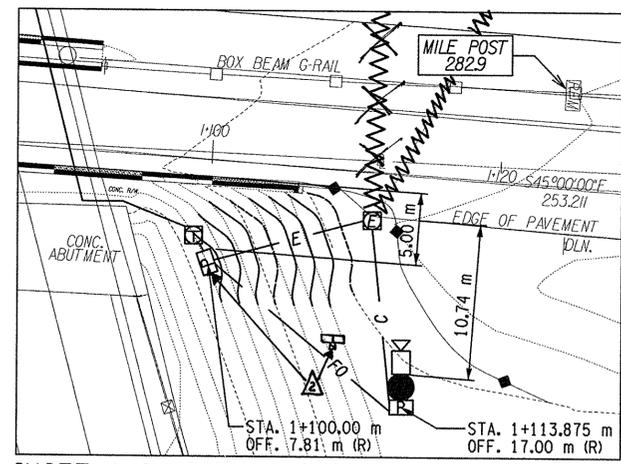


- NOTES:**
- ONE ANTENNA IS PROVIDED FOR TWO LANES OF TRAFFIC AND TWO ANTENNAS ARE PROVIDED FOR THREE LANES OF TRAFFIC.
 - THE CONTRACTOR SHALL PROVIDE ANTENNAS AND ALL THE REQUIRED ANTENNA MOUNTING HARDWARE AS PART OF THE INSTALLATION. COST SHALL BE INCLUDED UNDER ITEM 683.3011-25.
 - POWER AND COMMUNICATION RUNS ARE IN SEPARATE CONDUITS. A PULLBOX SHALL BE INSTALLED FOR EVERY 100 m OF CONDUIT, ELECTRIC AND FIBER OPTIC.
 - THE CONTRACTOR SHALL CALL ADESTA PRIOR TO DOING WORK AFFECTING THE ADESTA HANDHOLE.
 - CONTRACTOR SHALL NOTIFY TRANSCOM SUFFICIENTLY IN ADVANCE AND REQUEST TRANSCOM TO VISIT THIS SITE TO PROVIDE THEIR TECHNICAL EXPERTISE TO TUNE THE ANTENNA TO MEET THEIR REQUIREMENTS. CONTRACTOR SHALL BE PAID FOR ALL COSTS RELATED TO OBTAINING TRANSCOM'S EXPERTISE UNDER THE PAY ITEM 660.610011-25.

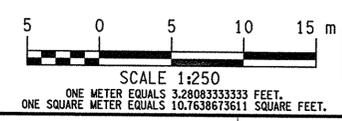
- CONDUITS AND PULLBOXES SHALL BE INSTALLED A MINIMUM OF 4 m FROM EDGE OF PAVEMENT AND A MINIMUM OF 1.6 m FROM EXISTING FIBER OPTIC LINES.
- REFER TO GENERAL NOTE G7 FOR ELECTRICAL CODE COMPLIANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING THE SILT FENCE AT 3 m OFFSET FROM THE TOE OF SLOPE WHERE EXCAVATION CONTINUES.

- FIBER NOTES:**
- ADESTA PERSONNEL SHALL BE ON-SITE TO MONITOR ALL WORK RELATING TO THE THRUWAY MAINLINE FIBER AT ALL TIMES.
 - INSTALL NEW 6 STRAND FIBER OPTIC CABLE W IN THE PROPOSED CONDUIT FROM THE TRANSMIT CABINET TO CCTV CABINET.
 - INSTALL NEW 6 STRAND FIBER OPTIC CABLE V IN THE PROPOSED CONDUIT FROM THE CCTV CABINET THROUGH THE EXISTING SPLICE MH-9 AND INTO THE THRUWAY REGEN BUILDING (FOR LOCATION OF MH-9 SEE SHEET SP-6 EXIT 36 MP 283.1).
 - TERMINATE ALL FIBERS USING SC CONNECTORS.

- CONDUIT NOTES:**
- CONDUIT INSTALLED ON ABUTMENT/WINGWALLS
 - CONDUIT INSTALLED ON FACE OF PIERCAP
 - CONDUIT INSTALLED ON SUPERSTRUCTURE
 - CONDUIT INSTALLED VERTICALLY ON ABUTMENT/WINGWALL/PIER COLUMN WITH JUNCTION BOX AT TOP OF CONDUIT.



INSET A-CABINET LOCATION



NOTE: *As Built Revisions*
 ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SCALE
	RELOCATED		
	PULL BOX + TRACHELESS CASING		
	POWER RETROFIT		
	(CAMERA) (TRANSMIT)		

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
 DEPARTMENT OF ENGINEERING SERVICES
 200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
 INSTALLATION OF ITS DEVICES
 I-90 VAR. LOC. SYRACUSE DIV.

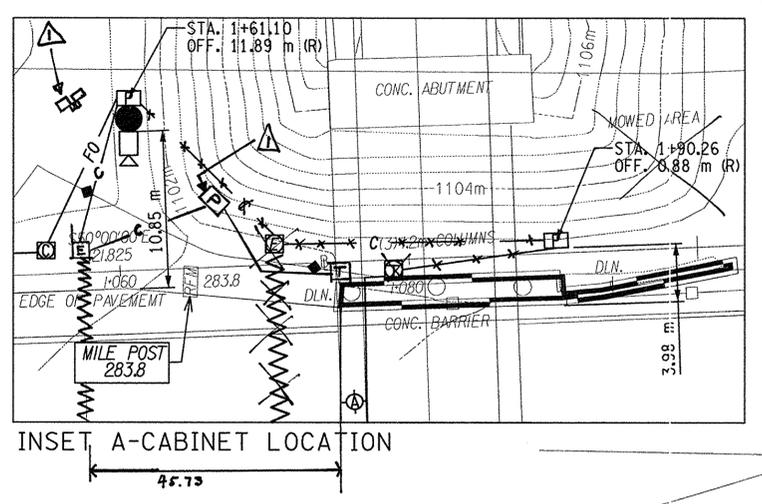
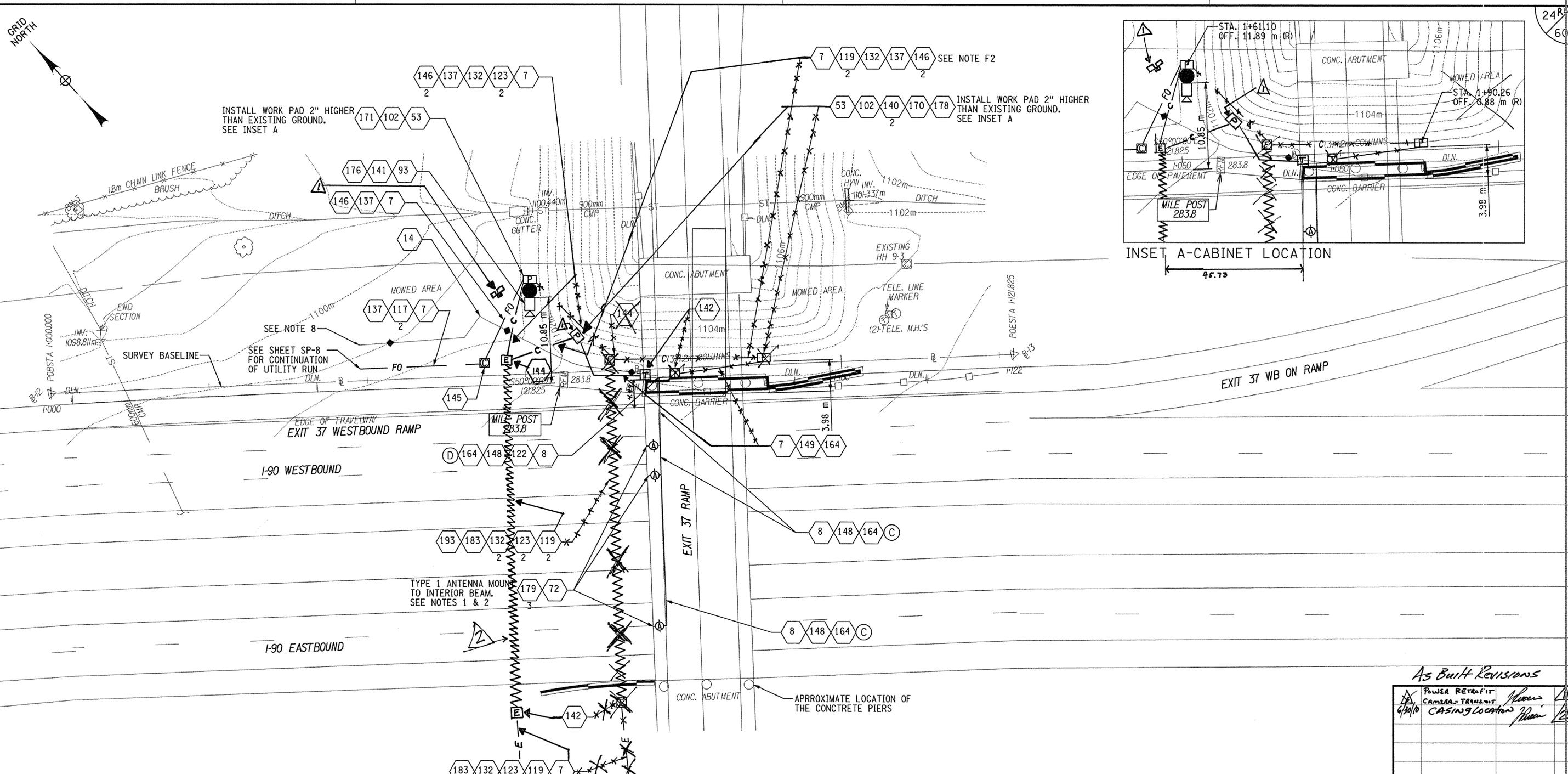
LOCATION OF PROJECT
 I-90 MP 282.93 EB, SALINA, NY

TITLE OF DRAWING
 CCTV C-12 &
 TRANSMIT TX-9
 PROPOSED SITE PLAN

CONTRACT NUMBER: TAS 08-321
DATE: JULY 30, 2008
DRAWING NUMBER: SP-5



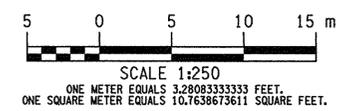
Disciplina: NYS DOT
 Project: NY Highway Design
 Project File: BALASCO-SP1
 PLOTTED BY: J. JOHNS
 Design File: 255117.PLT
 9/29/2008
 PLOTTED BY: P. BALASCO
 Design File: BALASCO-SP1
 9/29/2008
 DESIGNED BY: M. CONLEY
 CHECKED BY: J. JOHNS
 IN CHARGE OF: J. JOHNS



- NOTES:**
- ONE ANTENNA IS PROVIDED FOR TWO LANES OF TRAFFIC AND TWO ANTENNAS ARE PROVIDED FOR THREE LANES OF TRAFFIC.
 - THE CONTRACTOR SHALL PROVIDE ANTENNAS AND ALL THE REQUIRED ANTENNA MOUNTING HARDWARE AS PART OF THE INSTALLATION. COST SHALL BE INCLUDED UNDER ITEM 683.3011-25.
 - POWER AND COMMUNICATION RUNS ARE IN SEPARATE CONDUITS. A PULLBOX SHALL BE INSTALLED FOR EVERY 100 m OF CONDUIT, ELECTRIC AND FIBER OPTIC.
 - THE CONTRACTOR SHALL CALL ADESTA PRIOR TO DOING WORK AFFECTING THE ADESTA HANDHOLE.
 - CONTRACTOR SHALL NOTIFY TRANSCOM SUFFICIENTLY IN ADVANCE AND REQUEST TRANSCOM TO VISIT THIS SITE TO PROVIDE THEIR TECHNICAL EXPERTISE TO TUNE THE ANTENNA TO MEET THEIR REQUIREMENTS. CONTRACTOR SHALL BE PAID FOR ALL COSTS RELATED TO OBTAINING TRANSCOM'S EXPERTISE UNDER THE PAY ITEM 660.610011-25.
 - CONDUITS AND PULLBOXES SHALL BE INSTALLED A MINIMUM OF 4 m FROM EDGE OF PAVEMENT AND A MINIMUM OF 1.6 m FROM EXISTING FIBER OPTIC LINES.
 - REFER TO GENERAL NOTE G7 FOR ELECTRICAL CODE COMPLIANCE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING THE SILT FENCE AT 3 m OFFSET FROM THE TOE OF SLOPE WHERE EXCAVATION CONTINUES.

- FIBER NOTES:**
- ADESTA PERSONNEL SHALL BE ON-SITE TO MONITOR ALL WORK RELATING TO THE THRUWAY MAINLINE FIBER AT ALL TIMES.
 - INSTALL NEW 6 STRAND FIBER OPTIC CABLE X IN THE PROPOSED CONDUIT FROM THE TRANSMIT CABINET TX-10 TO THE CCTV CABINET C-13.
 - INSTALL NEW 6 STRAND FIBER OPTIC CABLE Y IN THE PROPOSED CONDUIT FROM THE CCTV CABINET TO THE EXISTING SPLICE HH 9-4 (SEE SHEET SP-8 FOR LOCATION OF SPLICE HH 9-4).
 - TERMINATE ALL FIBERS OF CABLE X AND CABLE Y USING SC CONNECTORS.
 - TO COMPLETE THIS CIRCUIT, FIBERS #1 & 2 (CABLE Y) WILL NEED TO BE SPLICED ONTO FEEDER FIBERS #5 & 6 IN ADESTA HH 9-4 AT MP 283.79, EXIT 37 (SEE SHEET SP-8).

- CONDUIT NOTES:**
- (A) CONDUIT INSTALLED ON ABUTMENT/WINGWALLS
 - (B) CONDUIT INSTALLED ON FACE OF PIERCAP
 - (C) CONDUIT INSTALLED ON SUPERSTRUCTURE
 - (D) CONDUIT INSTALLED VERTICALLY ON ABUTMENT/WINGWALL/PIER COLUMN WITH JUNCTION BOX AT TOP OF CONDUIT.



NOTE:
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.



As Built Revisions

DATE	DESCRIPTION	BY	SYD.

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
INSTALLATION OF ITS DEVICES
I-90 VAR. LOC. SYRACUSE DIV.

LOCATION OF PROJECT
I-90 MP 283.79 WB, SALINA, NY

TITLE OF DRAWING
CCTV C-13 &
TRANSMIT TX-10
PROPOSED SITE PLAN

CONTRACT NUMBER:
TAS 08-321

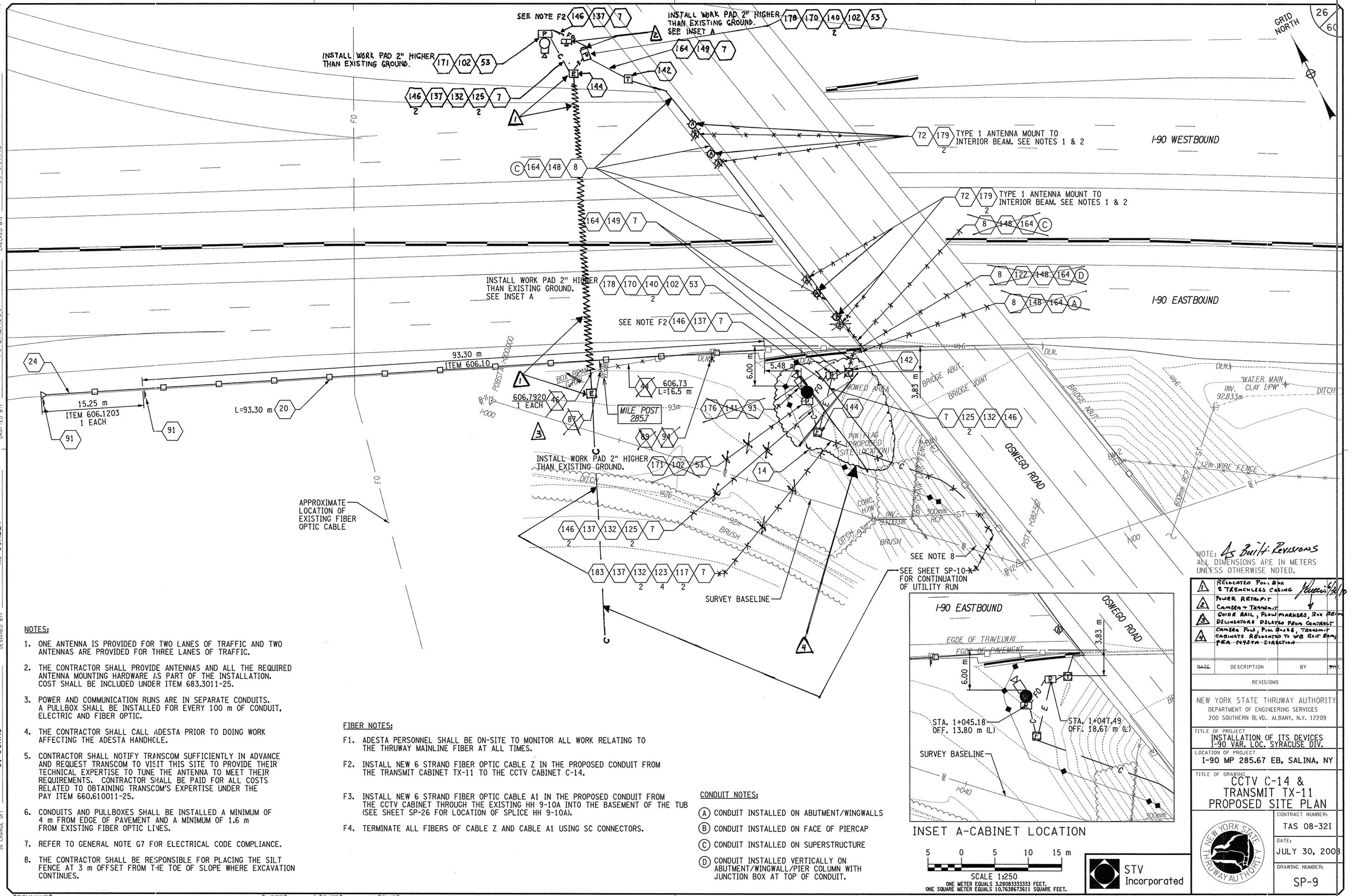
DATE:
JULY 30, 2008

DRAWING NUMBER:
SP-7



24R
60

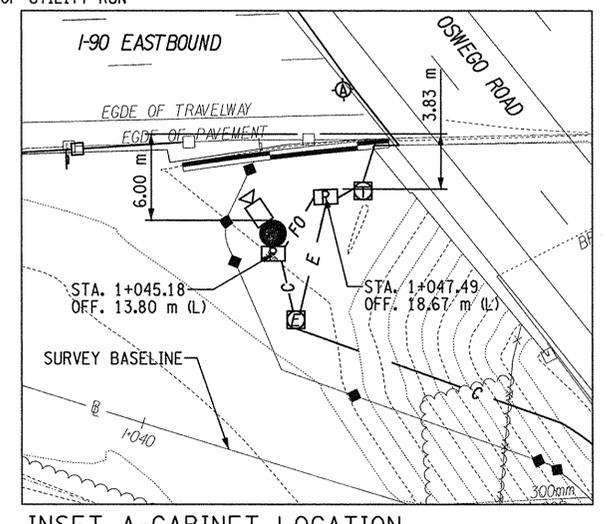
Disciplina: NYSDOT
 Project: BALASCO-SPT
 Project File: BALASCO-SPT
 Date: 9/29/2008
 Design By: P. BALASCO
 Checked By: J. JOHNS
 Drafted By: M. CONLEY
 In Charge Of: J. JOHNS



- NOTES:**
- ONE ANTENNA IS PROVIDED FOR TWO LANES OF TRAFFIC AND TWO ANTENNAS ARE PROVIDED FOR THREE LANES OF TRAFFIC.
 - THE CONTRACTOR SHALL PROVIDE ANTENNAS AND ALL THE REQUIRED ANTENNA MOUNTING HARDWARE AS PART OF THE INSTALLATION. COST SHALL BE INCLUDED UNDER ITEM 683.3011-25.
 - POWER AND COMMUNICATION RUNS ARE IN SEPARATE CONDUITS. A PULLBOX SHALL BE INSTALLED FOR EVERY 100 m OF CONDUIT, ELECTRIC AND FIBER OPTIC.
 - THE CONTRACTOR SHALL CALL ADESTA PRIOR TO DOING WORK AFFECTING THE ADESTA HANDHOLE.
 - CONTRACTOR SHALL NOTIFY TRANSCOM SUFFICIENTLY IN ADVANCE AND REQUEST TRANSCOM TO VISIT THIS SITE TO PROVIDE THEIR TECHNICAL EXPERTISE TO TUNE THE ANTENNA TO MEET THEIR REQUIREMENTS. CONTRACTOR SHALL BE PAID FOR ALL COSTS RELATED TO OBTAINING TRANSCOM'S EXPERTISE UNDER THE PAY ITEM 660.610011-25.
 - CONDUITS AND PULLBOXES SHALL BE INSTALLED A MINIMUM OF 4 m FROM EDGE OF PAVEMENT AND A MINIMUM OF 1.6 m FROM EXISTING FIBER OPTIC LINES.
 - REFER TO GENERAL NOTE G7 FOR ELECTRICAL CODE COMPLIANCE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING THE SILT FENCE AT 3 m OFFSET FROM THE TOE OF SLOPE WHERE EXCAVATION CONTINUES.

- FIBER NOTES:**
- ADESTA PERSONNEL SHALL BE ON-SITE TO MONITOR ALL WORK RELATING TO THE THRUWAY MAINLINE FIBER AT ALL TIMES.
 - INSTALL NEW 6 STRAND FIBER OPTIC CABLE Z IN THE PROPOSED CONDUIT FROM THE TRANSMIT CABINET TX-11 TO THE CCTV CABINET C-14.
 - INSTALL NEW 6 STRAND FIBER OPTIC CABLE A1 IN THE PROPOSED CONDUIT FROM THE CCTV CABINET THROUGH THE EXISTING HH 9-10A INTO THE BASEMENT OF THE TUB (SEE SHEET SP-26 FOR LOCATION OF SPLICE HH 9-10A).
 - TERMINATE ALL FIBERS OF CABLE Z AND CABLE A1 USING SC CONNECTORS.

- CONDUIT NOTES:**
- CONDUIT INSTALLED ON ABUTMENT/WINGWALLS
 - CONDUIT INSTALLED ON FACE OF PIERCAP
 - CONDUIT INSTALLED ON SUPERSTRUCTURE
 - CONDUIT INSTALLED VERTICALLY ON ABUTMENT/WINGWALL/PIER COLUMN WITH JUNCTION BOX AT TOP OF CONDUIT.



INSET A-CABINET LOCATION

SCALE 1:250
 ONE METER EQUALS 3.280833333 FEET.
 ONE SQUARE METER EQUALS 10.763910417 SQUARE FEET.

As Built Revisions

NOTE: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	APP.
	RELOCATED PULL BOX & TRENCHLESS CASING		
	POWER RETRAFIT		
	CAMERA + TRANSMIT		
	GUIDE RAIL, PLOW MARKERS, BOX BEAM DELIMITERS RELATIVE FROM CONTRACT		
	CAMERA PAD, PULL BOXES, TRANSMIT CABINETS RELATIVE TO WS BAR ARM PER NYSTA DIRECTION		

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
 DEPARTMENT OF ENGINEERING SERVICES
 200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
 INSTALLATION OF ITS DEVICES
 I-90 VAR. LOC. SYRACUSE DIV.

LOCATION OF PROJECT
 I-90 MP 285.67 EB, SALINA, NY

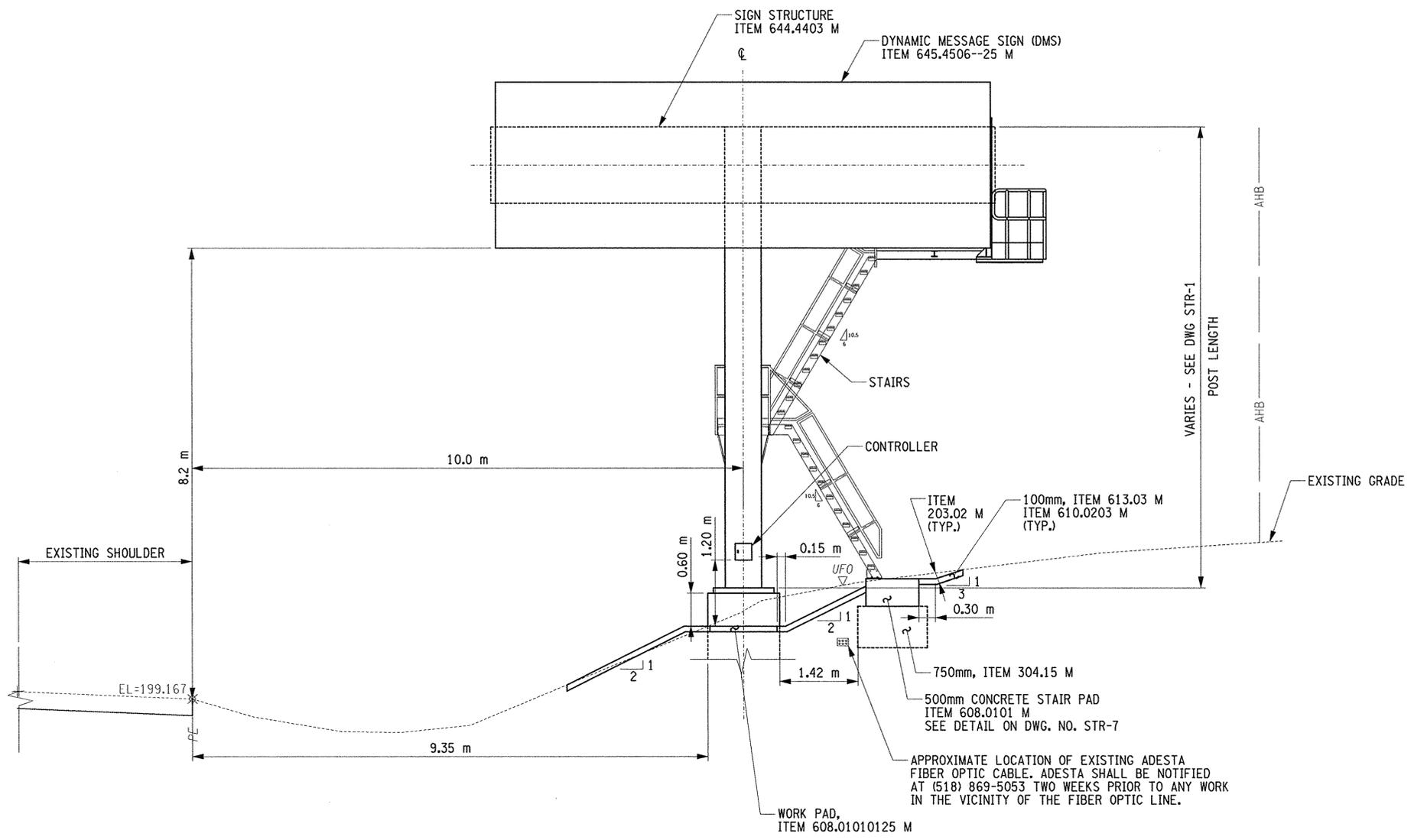
TITLE OF DRAWING
 CCTV C-14 &
 TRANSMIT TX-11
 PROPOSED SITE PLAN

CONTRACT NUMBER:
 TAS 08-321

DATE:
 JULY 30, 2008

DRAWING NUMBER:
 SP-9

IN CHARGE OF: J. JOHNS
 DESIGNED BY: M. CONLEY
 DRAFTED BY: P. BALASCO
 CHECKED BY: J. JOHNS
 Plotted By: pbalasco
 Design File: Upd1925001386rtronspportationdesigns040404.dwg
 Plot Date: 9/29/2008
 Discipline: NYSDOT
 Project: NY_Highway_Design
 Code: BALASCO-SPI



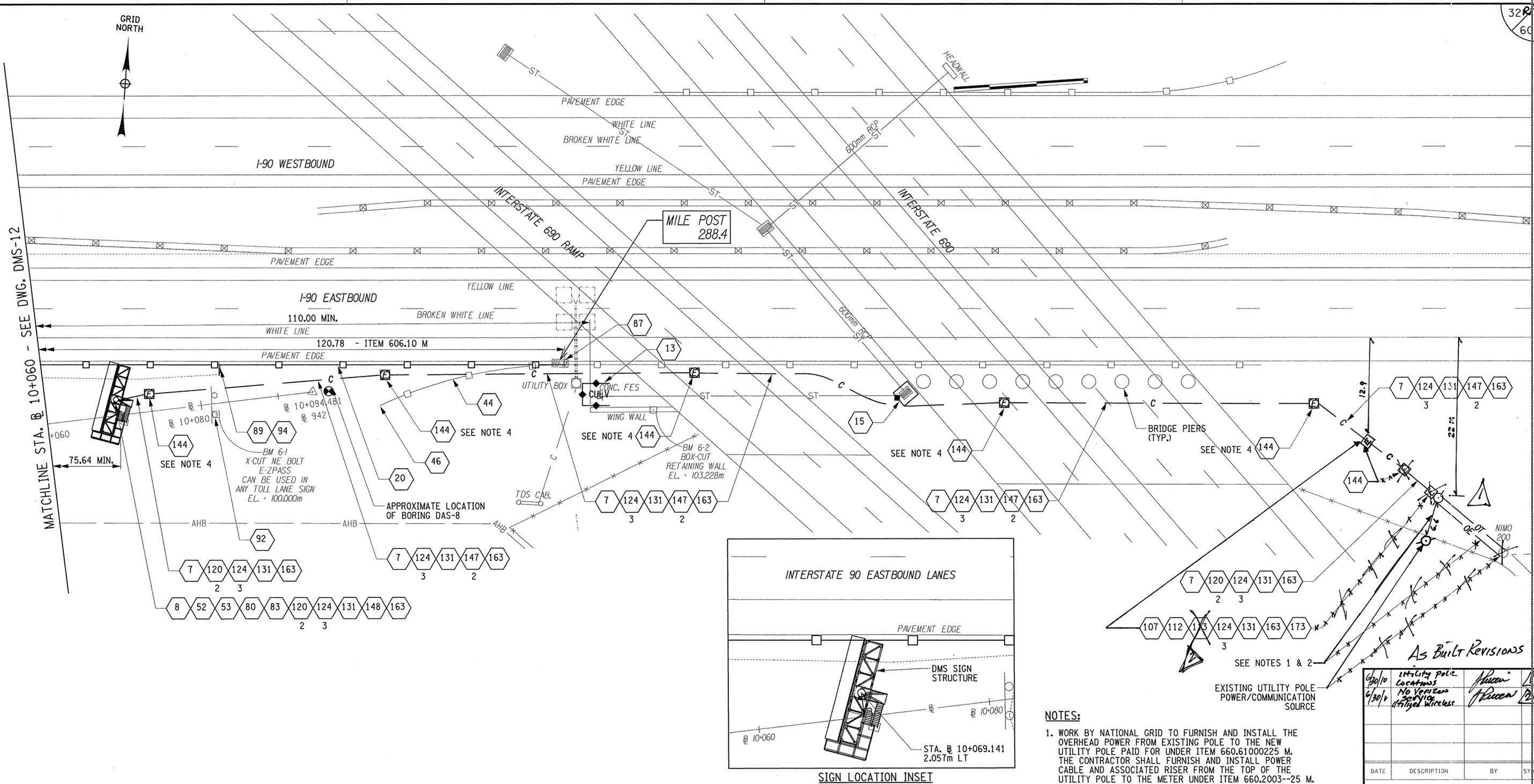
DMS SITE D-5
M.P. 280.00 WESTBOUND
 N.T.S.

No As Built Revisions
 NOTE:
 ALL DIMENSIONS ARE IN METERS
 UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYD
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING DMS ELEVATION SITE D-5 M.P. 280.00 WB			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: DMS-3			



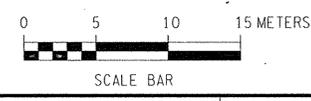
Disciplinary: NYS DOT
 Project: NY Highway Design
 Project File: BALASCO-D-SP1
 Plotted By: pbalasco
 Design File: 258443.DWG
 Plotted: 9/23/2008 2:58:43 PM
 Checked By: J. JOHNS
 Drafted By: P. BALASCO
 Designed By: M. CONLEY
 In Charge Of: J. JOHNS



REF. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY.
7	206.03 M	CONDUIT EXCAVATION	M	175
8	206.0312--25 M	CONDUIT INSTALL ON ABOVE GRADE STRUCTURES	M	26
13	209.23 M	PIPE INLET/OUTLET PROTECTION - SILT FENCE TEMPORARY	M	10
15	209.1701 M	DRAINAGE STRUCTURE INLET PROTECTION - SILT FENCE TEMPORARY	M	10
20	606.10 M	BOX BEAM GUIDE RAILING	M	121
24	606.1203 M	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE III	EA	1
44	606.73 M	REMOVING AND DISPOSING BOX BEAM GUIDE RAILING	M	25
46	606.7920 M	REMOVING AND DISPOSE ANCHOR UNIT FOR BOX BEAM GUIDE RAIL	EA	1
52	608.0101 M	CONCRETE SIDEWALKS AND DRIVEWAYS	CM	1
53	608.01010125 M	WORK PAD	EA	1
80	644.4403 M	NON-STANDARD SIGN STRUCTURE, T-POLE	EA	1
83	645.4506--25 M	DYNAMIC MESSAGE SIGN	EA	1
87	646.1032--25 M	REMOVE & RESET EXIST. DELINEATOR, SNOW PLOW MARKER, MILE MARKER	EA	1
89	646.0603--25 M	INSTALL DELINEATOR ON POST	EA	2

REF. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY.
91	646.0802--25 M	INSTALL SNOWPLOW MARKER, DOUBLE UNIT	EA	2
92	647.14 M	RELOCATING SIGNS SIZE D (4.1 TO 10.0 SQUARE METERS)	EA	1
94	647.01 M	REMOVAL OF SIGNS, SIZE A (0.0 -1.0 SM)	EA	3
107	660.2003--25 M	OVERHEAD/UNDERGROUND SERVICE POLE	EA	1
112	660.61000225 M	REIMBURSEMENT TO NATIONAL GRID FOR FURNISHING UTILITY SERVICE	LS	N/A
113	660.61000325 M	REIMBURSEMENT TO VERIZON FOR FURNISHING UTILITY SERVICE	LS	N/A
120	670.2306 M	GALVANIZED STEEL PLASTIC COATED CONDUIT, 2 NPS	M	37
124	670.7003 M	SINGLE CONDUCTOR CABLE, 4 GAGE	M	609
131	670.7504--25 M	GROUND WIRE 1/C NO. 4 AWG THWN 600V	M	203
144	680.5109--25 M	PULLBOX - B, 914 x 610 x 600	EA	6
147	680.520507 M	CONDUIT - RIGID PLASTIC CLASS 1, 2-1/2 NPS DIA.	M	331
148	680.520105 M	CONDUIT - METAL STEEL, ZINC COATED, 1 1/2 NPS DIA.	M	10
163	680.750618 M	SHIELDED COMMUNICATIONS CABLE, 6 PAIRS, 18 AWG	M	202
173	680.9410--25 M	WATERTIGHT DISCONNECT BOX	EA	1

- NOTES:**
- WORK BY NATIONAL GRID TO FURNISH AND INSTALL THE OVERHEAD POWER FROM EXISTING POLE TO THE NEW UTILITY POLE PAID FOR UNDER ITEM 660.61000225 M. THE CONTRACTOR SHALL FURNISH AND INSTALL POWER CABLE AND ASSOCIATED RISER FROM THE TOP OF THE UTILITY POLE TO THE METER UNDER ITEM 660.2003--25 M. THE CONTRACTOR SHALL COIL 1.5m OF SLACK CABLE TO ALLOW SERVICE CONNECTION BY NATIONAL GRID.
 - WORK BY VERIZON TO FURNISH AND INSTALL THE OVERHEAD TELEPHONE FROM EXISTING POLE TO THE NEW UTILITY POLE PAID FOR UNDER ITEM 660.61000325 M. THE CONTRACTOR SHALL FURNISH AND INSTALL COMMUNICATION CABLE AND ASSOCIATED RISER FROM THE TOP OF THE UTILITY POLE TO THE TERMINATION CABINET UNDER ITEM 660.2003--25 M. THE CONTRACTOR SHALL COIL 1.5m OF SLACK CABLE TO ALLOW SERVICE CONNECTION BY VERIZON.
 - SEE DWG. NO. MPT-3 FOR DETAILED MAINTENANCE AND PROTECTION OF TRAFFIC REQUIREMENTS AT THIS SITE.
 - PROVIDE TYPE "B" PULLBOX, ITEM 680.5109--25 M EVERY 40 m (MAX.) A.O.B.E.



NOTE:
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.



As Built Revisions

DATE	DESCRIPTION	BY	SYD
6/30/10	Utility Pole Locations	Pruden	A
6/30/10	No Verizon Service (Ring Wireless)	Pruden	D

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
INSTALLATION OF ITS DEVICES
I-90 VAR. LOC. SYRACUSE DIV.

LOCATION OF PROJECT
SYRACUSE DIVISION

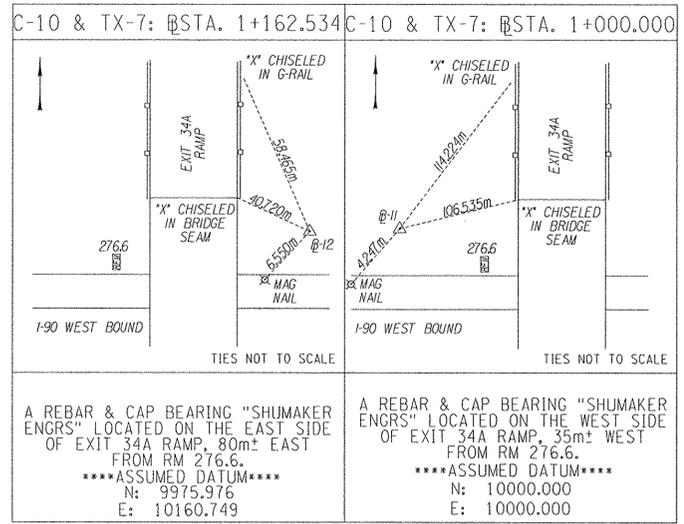
TITLE OF DRAWING
DMS PLAN
SITE D-6 M.P. 288.45 EB

CONTRACT NUMBER:
TAS 08-321

DATE:
JULY 30, 2008

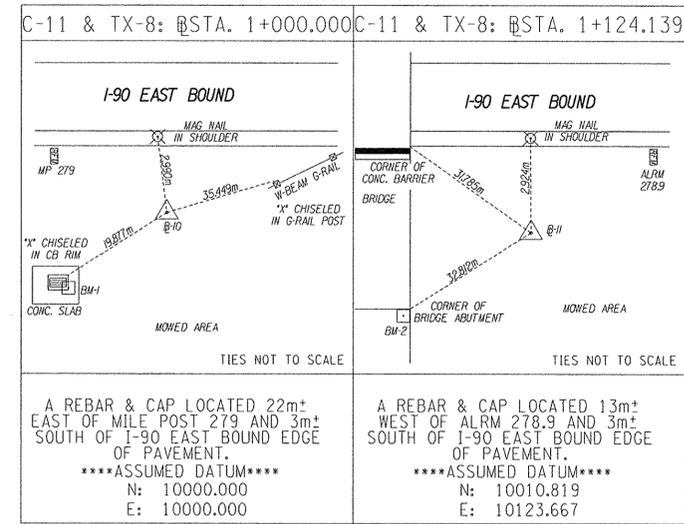
DRAWING NUMBER:
DMS-5

PLOTTED BY: J. JOHNS
 PROJECT: NY STATE THRUWAY AUTHORITY
 DRAWING: I-90 VAR. LOC. SYRACUSE DIV.
 DATE: 7/29/2008
 CHECKED BY: P. BALASCO
 DRAFTED BY: M. CONLEY
 DESIGNED BY: J. JOHNS
 IN CHARGE OF: J. JOHNS



TIES NOT TO SCALE

A REBAR & CAP BEARING "SHUMAKER ENGRS" LOCATED ON THE EAST SIDE OF EXIT 34A RAMP, 80m± EAST FROM RM 276.6.
 *****ASSUMED DATUM*****
 N: 9975.976
 E: 10160.749

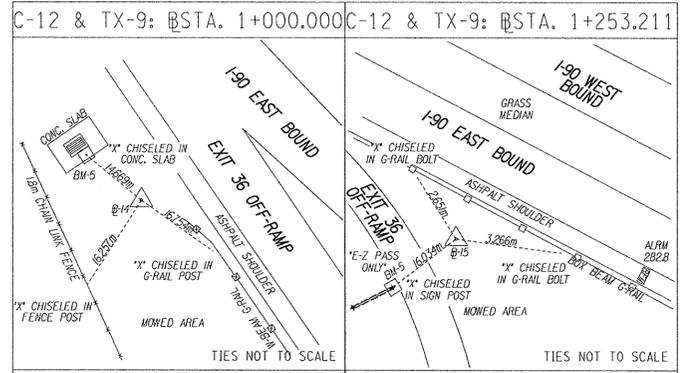


TIES NOT TO SCALE

A REBAR & CAP LOCATED 22m± EAST OF MILE POST 279 AND 3m± SOUTH OF I-90 EAST BOUND EDGE OF PAVEMENT.
 *****ASSUMED DATUM*****
 N: 10000.000
 E: 10000.000

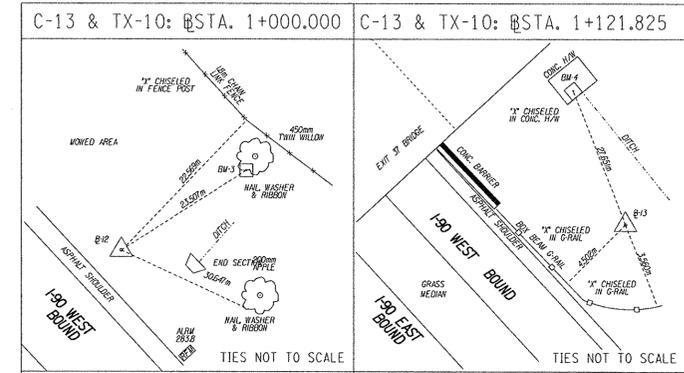
TIES NOT TO SCALE

A REBAR & CAP LOCATED 13m± WEST OF ALRM 278.9 AND 3m± SOUTH OF I-90 EAST BOUND EDGE OF PAVEMENT.
 *****ASSUMED DATUM*****
 N: 10010.819
 E: 10123.667



TIES NOT TO SCALE

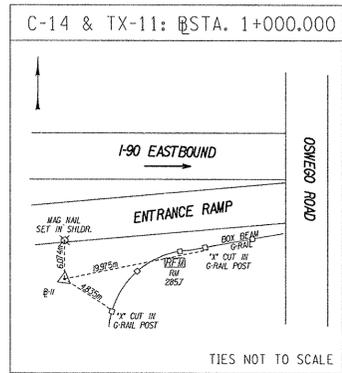
A REBAR & CAP LOCATED AT THE GRASS CORE OF I-90 AND I-90 EAST BOUND EXIT 36 OFF-RAMP, 32m± WEST OF ALRM 282.8.
 *****ASSUMED DATUM*****
 N: 11820.953
 E: 12179.047



TIES NOT TO SCALE

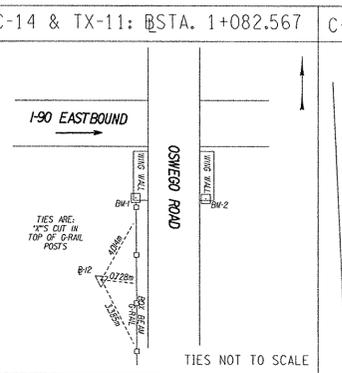
A REBAR & CAP LOCATED 65m± NORTHWEST OF ALRM 283.8 AND 1m± NORTHEAST OF I-90 WEST BOUND EDGE OF SHOULDER.
 *****ASSUMED DATUM*****
 N: 11000.000
 E: 11000.000

A REBAR & CAP LOCATED 33m± SOUTHEAST OF EXIT 37 BRIDGE OVER I-90 AND 5m± NORTHEAST OF I-90 WEST BOUND EDGE OF SHOULDER.
 *****ASSUMED DATUM*****
 N: 10921.692
 E: 11093.323



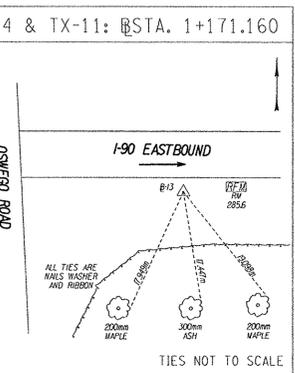
TIES NOT TO SCALE

A REBAR & CAP "SHUMAKER ENGRS." LOCATED ON THE SOUTH SIDE OF OSWEGO RD. 30m± SOUTH OF NYS I-90 EB EDGE OF PAVEMENT.
 *****ASSUMED DATUM*****
 N: 10057.356
 E: 9940.606



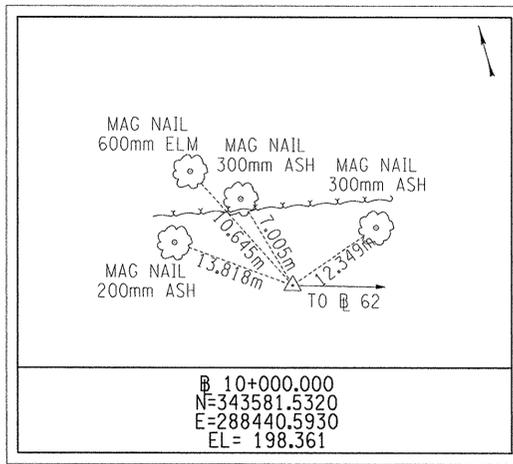
TIES NOT TO SCALE

A REBAR & CAP "SHUMAKER ENGRS." LOCATED ON THE WEST SIDE OF OSWEGO RD. 30m± SOUTH OF NYS I-90 EB EDGE OF PAVEMENT.
 *****ASSUMED DATUM*****
 N: 10000.000
 E: 10000.000



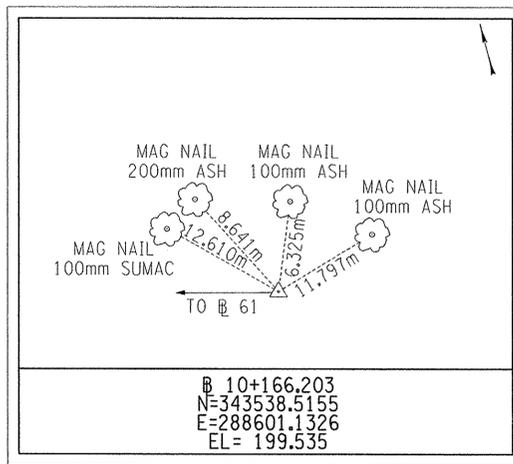
TIES NOT TO SCALE

A REBAR & CAP "SHUMAKER ENGRS." LOCATED ON SOUTH SIDE OF I-90 EASTBOUND, 5m± WEST OF RM 285.6
 *****ASSUMED DATUM*****
 N: 9987.623
 E: 10087.724



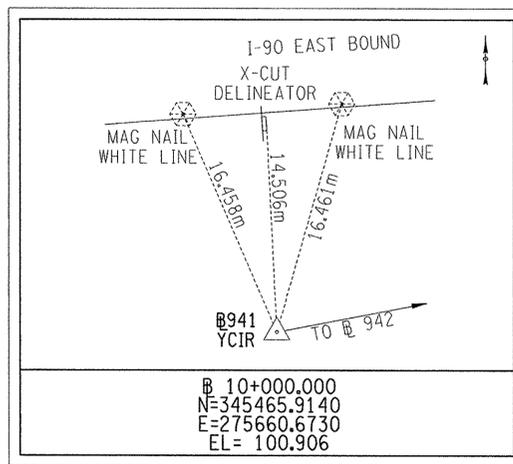
B - 61

B 10+000.000
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 E=288440.5930
 EL= 198.361



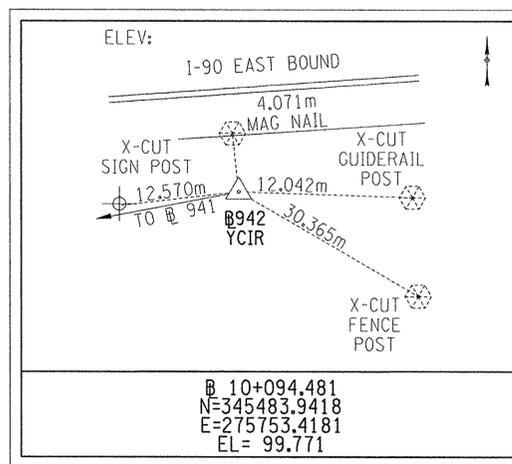
B - 62

B 10+166.203
 N=343538.5155
 E=288601.1326
 EL= 199.535



B - 941

B 10+000.000
 N=345465.9140
 E=275660.6730
 EL= 100.906



B - 942

B 10+094.481
 N=345483.9418
 E=275753.4181
 EL= 99.771

TABLE OF BASELINE TIES	
DMS	BASELINE TIES
D-5	B - 61 AND B - 62
D-6	B - 941 AND B - 942

No As Built Revisions

NOTE: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYSL
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING SURVEY TIES			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: SV-01			



Plotted By: pccesco
 Design File: U:\1925001\86\tr-con\portations\design\60\ND\CA\drawing\MT\DWG_SFR_01.mtdgn
 Plot Date: 9/29/2008 2:58:50 PM

Discipline: NYSDOT
 Project: NY_Highway_Design
 User: P. BALASCO

IN CHARGE OF: J. JOHNS
 DESIGNED BY: M. CONLEY
 DRAFTED BY: P. BALASCO
 CHECKED BY: J. JOHNS

TABLE OF GUIDERAIL											
SITE	LOCATION		OFFSET	POST SPACING	LENGTH	FACTOR	ITEM 606.10M	ITEM 606.1203M	ITEM 606.73M	ITEM 606.7920M	
C-14/TX-11	@ 0+935.3	@ 1+036.8	EB RT-LT	1.830	108.55	1.0	93.3	1	16.5	1	
D-6	@ 9+992.2	@ 10+127.3	EB LT	1.830	135.76	1.0	122-120.8	1	2140-25.0	1	
TOTAL:							122-214.1 m	1.0 EA 2 EA	2140-4.5 m	1 EA 2 EA	

ITEM DESCRIPTION		UNIT
ITEM 606.10 M - BOX BEAM GUIDE RAILING		M
ITEM 606.1203 M - BOX BEAM GUIDE RAIL END ASSEMBLY, TYPE III		EA
ITEM 606.73 M - REMOVING AND DISPOSING BOX BEAM GUIDE RAILING		M
ITEM 606.7920 M - REMOVING AND DISPOSING BOX BEAM GUIDE RAILING END ASSEMBLY		EA

TABLE OF DELINEATORS AND SNOWPLOW MARKERS							
SITE	STATION	OFFSET (m)	SPACING	ITEM 646.0603--25 M	ITEM 646.0802--25 M	ITEM 646.1032--25 M	ITEM 647.01 M
C-14/TX-11	@ 0+935.9	20.0 RT	-	-	+	-	-
C-14/TX-11	@ 0+930.0	14.4 RT	-	-	+	-	-
C-14/TX-11	@ 1+014.5	9.8 LT	-	-	-	+	-
C-14/TX-11	@ 1+029.5	16.0 LT	-	+	-	-	+
D-6	@ 9+992.1	14.5 LT	-	-	1	-	-
D-6	@ 10+001.8	14.4 LT	-	-	-	-	1
D-6	@ 10+007.3	13.5 LT	-	-	1	-	-
D-6	@ 10+041.1	9.5 LT	-	+	-	-	1
D-6	@ 10+055.6	7.9 LT	-	+	-	-	1
D-6	@ 10+126.7	0.1 RT	-	-	-	1	-
TOTAL:				3 EA 0	4 EA 2 EA	1 EA	3 EA

ITEM DESCRIPTION		UNIT
ITEM 646.0603--25 M - INSTALL DELINEATOR ON POST		EA
ITEM 646.0802--25 M - INSTALL SNOW PLOW MARKER DOUBLE UNIT		EA
ITEM 646.1032--25 M - REMOVE AND RESET EXIST DELINEATOR, SNOW PLOW MARKER, MILE MARKER		EA
ITEM 647.01 M - REMOVAL OF SIGNS, SIZE A (0.0-1.0 SM)		EA

NOTES:
 1. ALL SNOWPLOW MARKERS AND DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH THRUWAY STANDARD SHEETS DMM-1 AND DMM-2.

As Built Revisions
 NOTE:
 ALL DIMENSIONS ARE IN METERS
 UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SY#
6/30/10	revise table	J. Johns	
6/30/10	Eliminate Guiderail	J. Johns	

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
 DEPARTMENT OF ENGINEERING SERVICES
 200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
 INSTALLATION OF ITS DEVICES
 I-90 VAR. LOC. SYRACUSE DIV.

LOCATION OF PROJECT
 SYRACUSE DIVISION

TITLE OF DRAWING
 MISCELLANEOUS TABLES

CONTRACT NUMBER:
 TAS 08-321

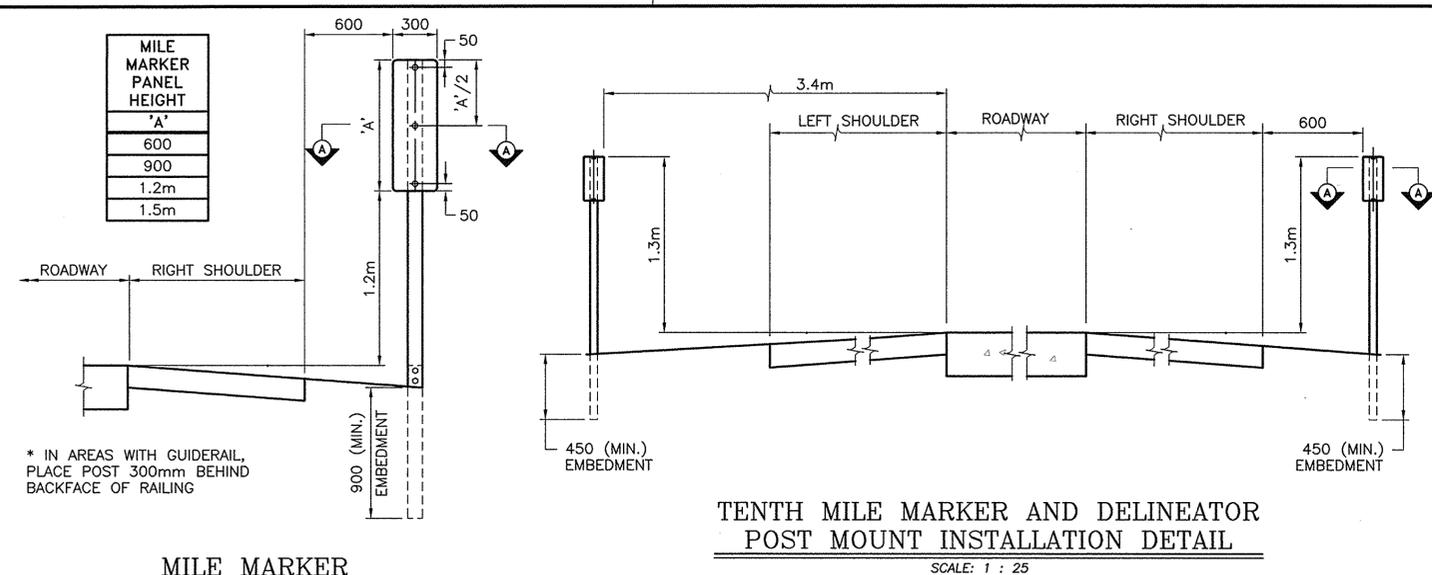
DATE:
 JULY 30, 2008

DRAWING NUMBER:
 MT-1

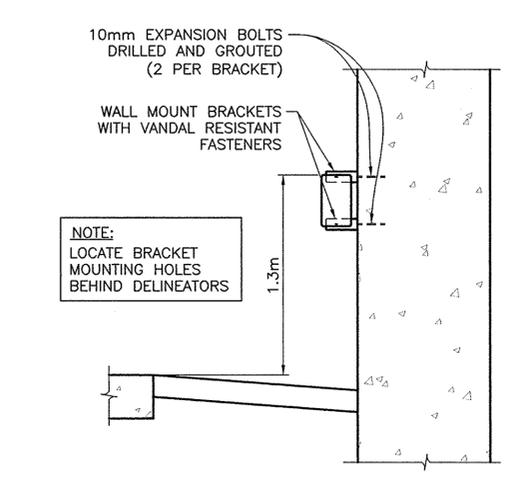
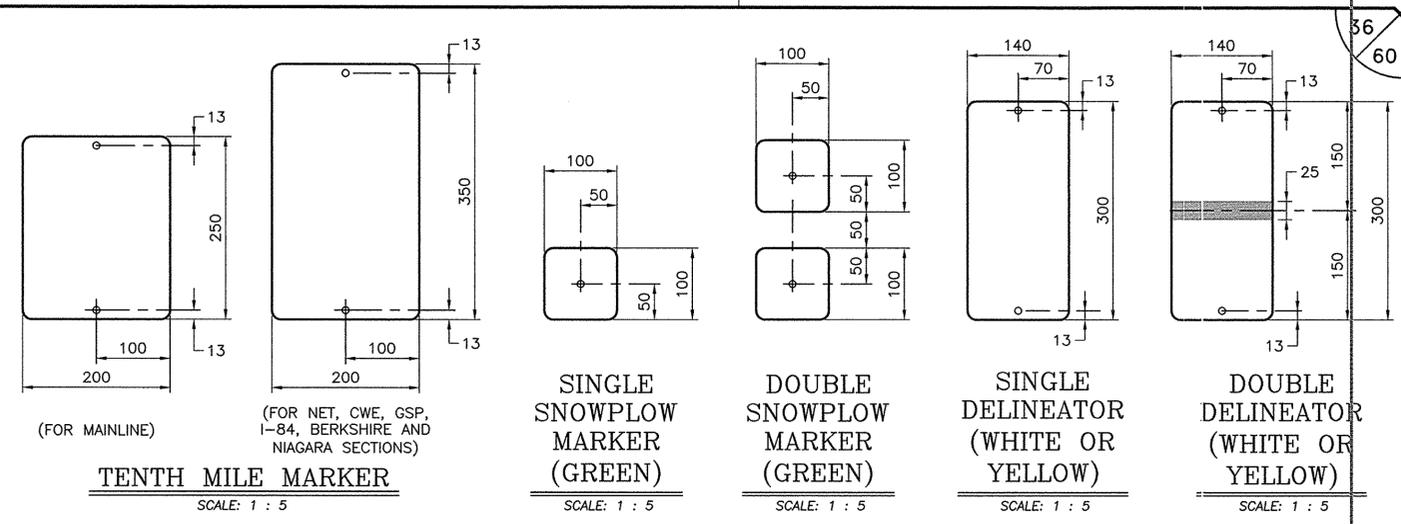


DESIGNED BY: J. PEGARELLA
 CHECKED BY: J. PEGARELLA
 DRAFTED BY: CAD
 DESIGNED BY: TA
 IN CHARGE OF: TA

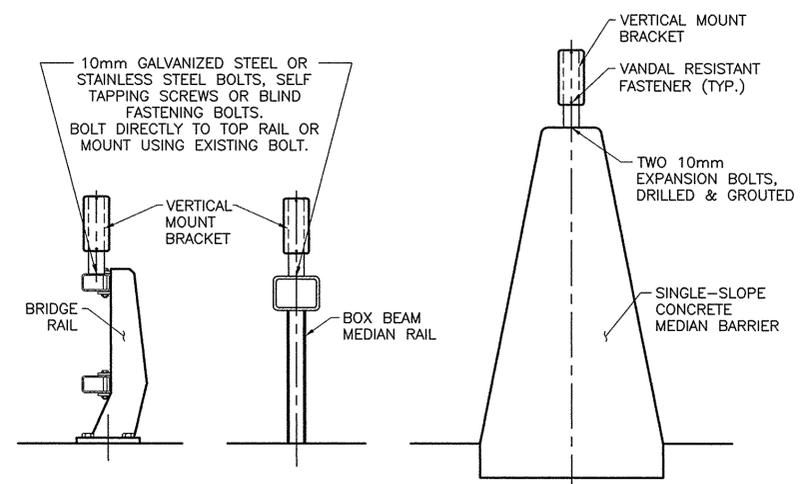
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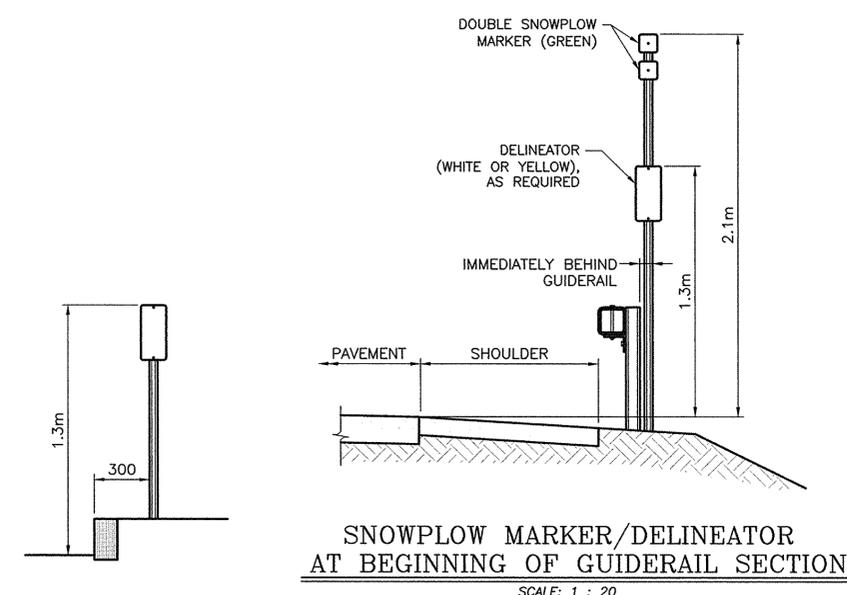
MILE MARKER POST MOUNT INSTALLATION DETAIL
SCALE: 1 : 25



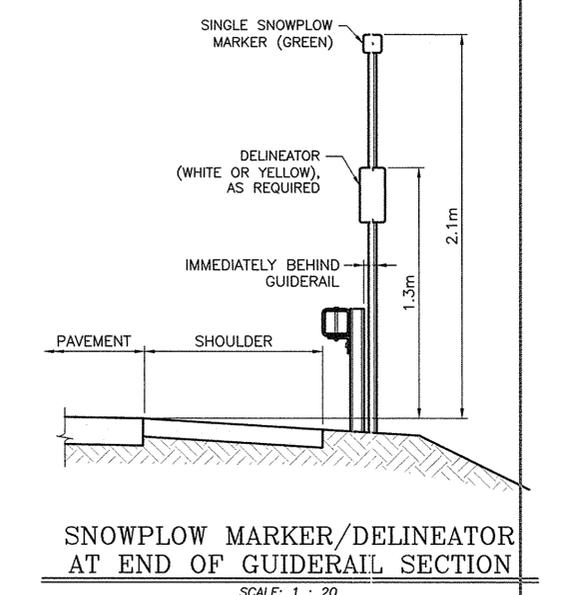
TENTH MILE MARKER AND DELINEATOR WALL MOUNT INSTALLATION DETAIL
SCALE: 1 : 25



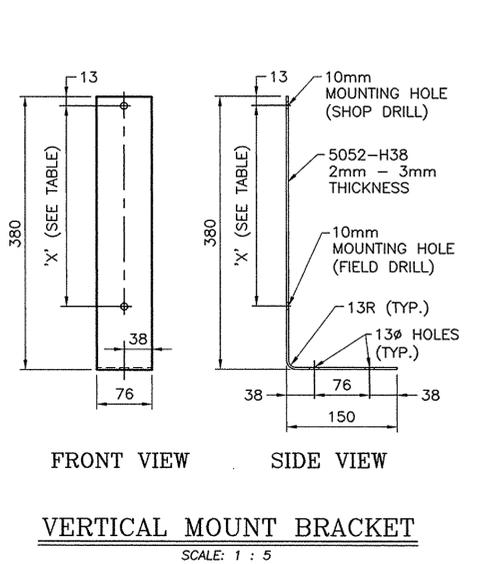
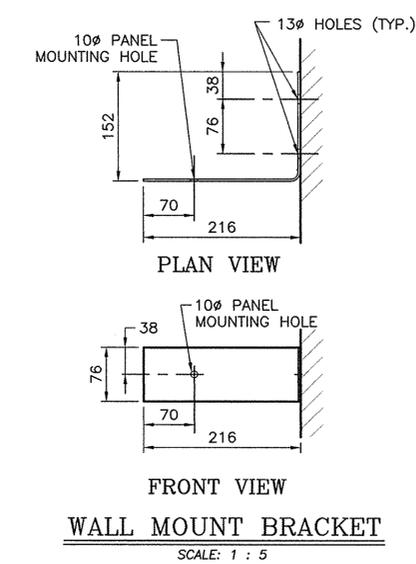
DELINEATOR VERTICAL MOUNT INSTALLATION DETAILS
N.T.S.



SNOWPLOW MARKER/DELINEATOR AT BEGINNING OF GUIDRAIL SECTION
SCALE: 1 : 20



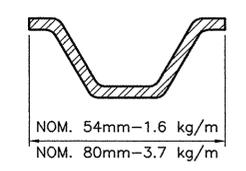
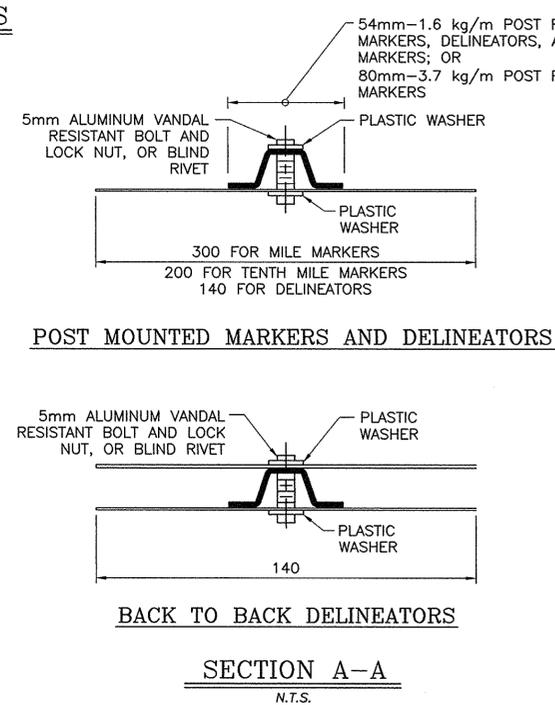
SNOWPLOW MARKER/DELINEATOR AT END OF GUIDRAIL SECTION
SCALE: 1 : 20



- VERTICAL MOUNT BRACKET NOTES:**
1. WHEN GALVANIZED STEEL IS USED FOR BRACKETS, SPACERS THAT DO NOT INDUCE CORROSION MUST BE USED.
 2. BRACKETS MAY BE USED FOR MOUNTING DELINEATORS OR REFERENCE MARKERS ON BRIDGE RAIL, GUIDE RAIL, OR AS OTHERWISE NEEDED.

MOUNTING HOLE SPACING TABLE

"X"	DESCRIPTION
274	FOR 140 x 300 DELINEATOR
224	FOR 200 x 250 TENTH MILE MARKER
324	FOR 200 x 350 TENTH MILE MARKER



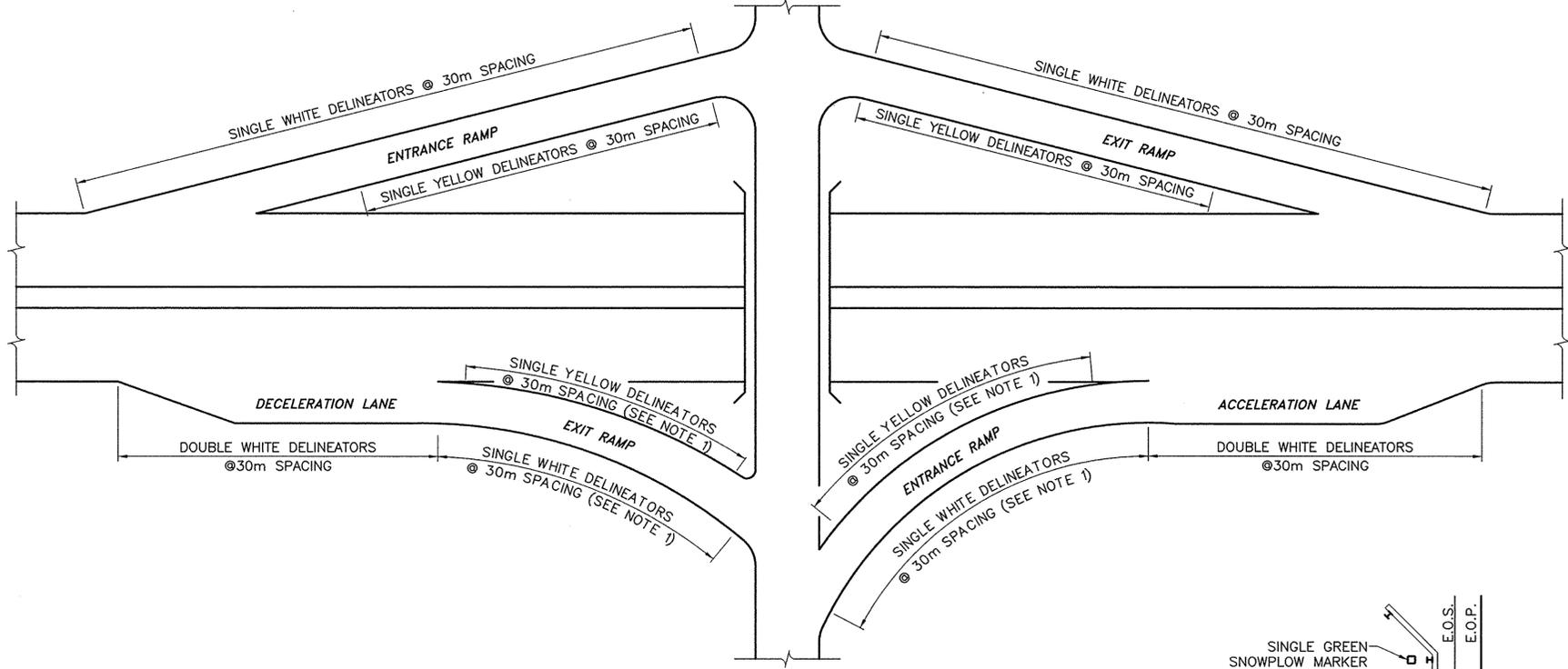
- NOTES:**
1. MATERIAL SHALL CONFORM TO EITHER A.S.T.M. A-499 OR A.S.T.M. A-36.
 2. GALVANIZING SHALL CONFORM TO A.S.T.M. A-123.
 3. REMOVE ALL BURRS AND SHARP EDGES.

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.

No As Built Revisions

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIVISION			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING MILE MARKER, TENTH MILE MARKER, DELINEATOR, AND SNOWPLOW MARKER INSTALLATION DETAILS			
CONTRACT NUMBER: TAS 08-321		DATE: 6/08	
DRAWING NUMBER: DMM-1			

DESIGNED BY: J.A. IN CHARGE OF: J.A. DRAFTED BY: CAD CHECKED BY: J. PEGARELLA SSS\DELIN-LAYOUT-DTLS.DWG



DELINEATOR LAYOUT FOR INTERCHANGES
N.T.S.

NOTES:

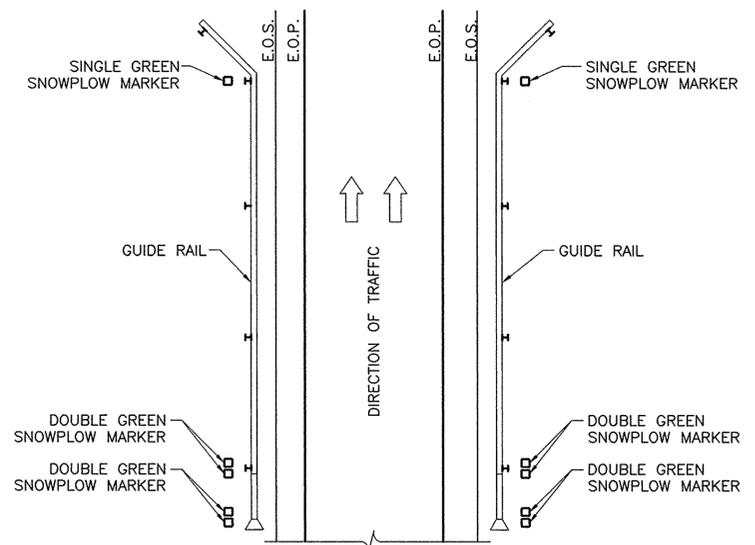
- THE TYPICAL SPACING OF DELINEATORS FOR INTERCHANGES IS 30m. FOR LOCATIONS WHERE THE ROADWAY HAS A DEGREE OF CURVE OF 5 DEGREES OR MORE (OR A RADIUS OF CURVE OF 300m OR LESS), THE SPACING SHALL BE 15m.
- ON THRUWAY RAMP WHERE TWO-WAY TRAFFIC IS SEPARATED BY BARRIER (CONCRETE, CORRUGATED BEAM, ETC.), BACK-TO-BACK YELLOW DELINEATORS SHALL BE INSTALLED ALONG THE BARRIER AT 15m SPACING.
- SOME EXISTING MARKERS AND DELINEATORS WITHIN THE PROJECT LIMITS MAY NOT BE IN THE CORRECT LOCATIONS. THE CONTRACTOR SHALL INCLUDE IN THE PRICE BID FOR EACH RESPECTIVE MARKER AND/OR DELINEATOR THE COST TO ACCURATELY DETERMINE THE EXACT LOCATION PRIOR TO INSTALLATION. OVERHEAD AND MAINLINE STRUCTURES SHALL BE USED AS FIXED REFERENCE GUIDES FOR THE INSTALLATION. THE ENGINEER SHALL APPROVE THE EXACT LOCATIONS PRIOR TO INSTALLATION. ANY COST FOR THIS LAYOUT WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE MARKERS AND/OR DELINEATORS.
- WHERE AN EXISTING TENTH MILE MARKER FALLS WITHIN A LINE OF DOUBLE WHITE DELINEATORS, THE TENTH MILE MARKER SHALL REMAIN AT ITS PRESENT LOCATION.
- POSTS, BANDS, BRACKETS, AND ALL NECESSARY HARDWARE ARE TO BE FURNISHED BY THE CONTRACTOR. DELINEATORS, MILE MARKERS, TENTH MILE MARKERS, AND SNOWPLOW MARKERS ARE TO BE FURNISHED BY THE AUTHORITY. THE DESIGN ENGINEER SHALL PROVIDE THE SIGN SHOP WITH DELINEATOR, MILE MARKER, TENTH MILE MARKER, AND SNOWPLOW MARKER REQUIREMENTS DURING PROJECT DESIGN AS WELL AS AN APPROXIMATE DATE WHEN NEEDED IN THE FIELD. DURING CONSTRUCTION, AT LEAST ONE MONTH PRIOR TO SCHEDULED INSTALLATION, THE ENGINEER-IN-CHARGE SHALL CONTACT THE SIGN SHOP TO CONFIRM THE DATE WHEN THE MATERIAL IS NEEDED IN THE FIELD. THE SIGN SHOP WILL PREPARE THE SHIPMENT AND ARRANGE FOR DIVISION HIGHWAY TO PICK UP THE DELINEATORS AND/OR MARKERS. THE CONTRACTOR SHALL THEN ARRANGE TO PICK UP THE DELINEATORS AND/OR MARKERS FROM DIVISION HIGHWAY. COSTS FOR PICKING UP THE DELINEATORS AND/OR MARKERS FROM DIVISION HIGHWAY ARE TO BE INCLUDED IN THE PRICE BID FOR EACH RESPECTIVE ITEM.
- ALL MILE MARKERS SHALL BE ERECTED ON THE FRANKLIN STEEL CO. EZE-ERECT 3.7 kg/m POST. NO SUBSTITUTIONS WILL BE ALLOWED FOR THE MILE MARKER POST.
- ON CURVES, DELINEATOR FACES SHALL BE ORIENTED TO PROVIDE OPTIMUM VISIBILITY AT NIGHT. EXACT ORIENTATION WILL VARY BASED UPON THE DEGREE OF CURVE.
- DELINEATORS, MILE MARKERS, TENTH MILE MARKERS, AND SNOWPLOW MARKERS SHALL BE ATTACHED TO POSTS AND BRACKETS USING VANDAL RESISTANT FASTENERS. THE FASTENERS SHALL BE ALUMINUM ALLOY 6061-T6 OR 2024-T4.
- BRACKETS SHALL BE ATTACHED TO GUIDE RAIL, BRIDGE RAIL, MEDIAN RAIL, AND MEDIAN BARRIER USING BOLTS, BLIND LOCK BOLTS, SELF-TAPPING SCREWS, EXPANDING ANCHOR BOLTS, ETC. MADE OF STAINLESS STEEL, GALVANIZED STEEL, OR ALUMINUM ALLOY 6061-T6 OR 2024-T4.
- ALUMINUM HARDWARE OF 2024-T4 SHALL BE ALCLAD OR FINISHED WITH TYPE 206 FINISH IN ACCORDANCE WITH THE SPECIFICATIONS OF ALUMINUM ANODIC COATINGS.

DELINEATORS AND SNOWPLOWING MARKERS

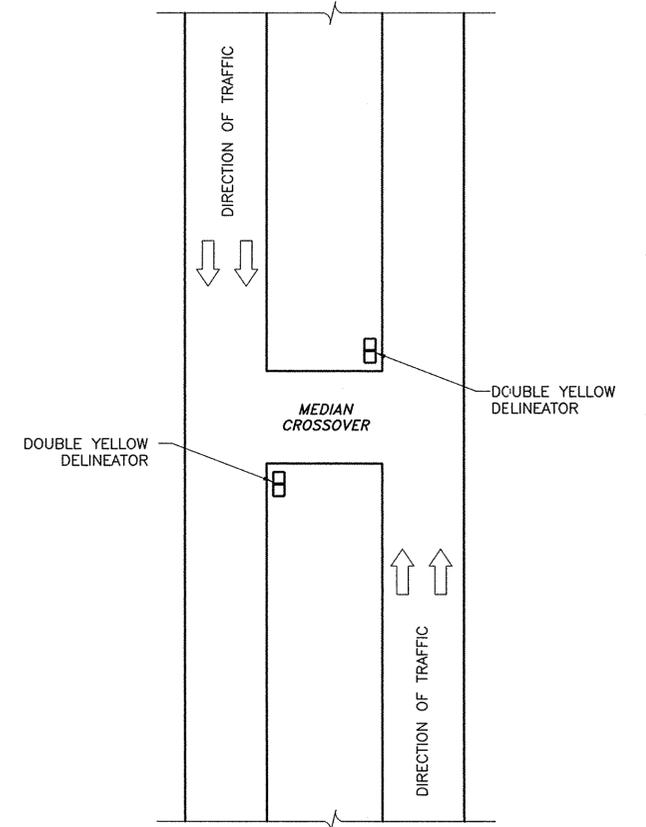
- ON ROADWAY SECTIONS WITHOUT GUIDE RAIL, RIGHT SIDE DELINEATORS SHALL BE INSTALLED 600mm OUTSIDE THE USABLE RIGHT SHOULDER AND LEFT SIDE DELINEATORS SHALL BE INSTALLED 3.4m FROM THE LEFT EDGE OF PAVEMENT. WHERE THERE IS A CHANGE IN SHOULDER WIDTH, THE TRANSITION IN DELINEATOR PLACEMENT SHALL BE MADE GRADUALLY.
- ON ROADWAY SECTIONS HAVING GUIDE RAIL, DELINEATORS AND SNOWPLOW MARKERS SHALL BE INSTALLED IMMEDIATELY BEHIND THE GUIDE RAIL. WHERE THERE IS A CHANGE IN THE GUIDE RAIL LATERAL OFFSET, THE TRANSITION IN DELINEATOR PLACEMENT SHALL BE MADE GRADUALLY.

POST ERECTION

- POSTS MAY EITHER BE DRIVEN OR SET. POSTS SHALL BE ERECTED TO PROVIDE THE PROPER LOCATION, LINE AND GRADE, AND TRUE VERTICAL ALIGNMENT OF THE MARKERS AND/OR DELINEATORS.
- FOR POSTS THAT ARE DRIVEN, HAND OR MECHANICAL DEVICES MAY BE USED. A SUITABLE DRIVING CAP SHALL ALSO BE USED TO PREVENT EXCESSIVE DAMAGE TO THE TOP OF THE POSTS. AFTER DRIVING, THE TOP OF THE POSTS SHALL HAVE SUBSTANTIALLY THE SAME CROSS-SECTIONAL DIMENSIONS AS THE BODY OF THE POSTS. NO BATTERED HEADS WILL BE ACCEPTED. POSTS THAT ARE BENT OR OTHERWISE DAMAGED TO THE EXTENT THAT, IN THE OPINION OF THE ENGINEER, THEY ARE UNFIT FOR USE IN THE FINISHED WORK SHALL BE REMOVED FROM THE SITE AND REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- FOR POSTS THAT ARE SET, HOLES SHALL BE DUG TO THE FULL EMBEDMENT DEPTH SHOWN ON THE PLANS. AFTER SETTING THE POSTS AT THE FULL EMBEDMENT DEPTH, THE HOLES SHALL BE BACKFILLED WITH SUITABLE MATERIAL PLACED IN LAYERS OF NOT MORE THAN 150mm IN DEPTH. EACH LAYER SHALL BE THOROUGHLY COMPACTED. CARE SHALL BE TAKEN DURING COMPACTION TO PRESERVE THE ALIGNMENT OF THE POST.
- WHEN SOUND ROCK IS ENCOUNTERED, POSTS SHALL BE FOUNDED A MINIMUM OF 300mm INTO SOUND ROCK. COST SHALL BE INCLUDED IN THE APPROPRIATE MARKER OR DELINEATOR ITEM.
- FOR POSTS THAT ARE INSTALLED IN PAVED AREAS, SODDED AREAS, SIDEWALKS, ETC., DISTURBED AREAS SHALL BE RESTORED IN-KIND.



MARKER AND DELINEATOR LAYOUT FOR THRUWAY MAINLINE
N.T.S.



DELINEATOR LAYOUT MEDIAN CROSSOVERS
N.T.S.

No As Built Revisions

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIVISION			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING MILE MARKER, TENTH MILE MARKER, DELINEATOR, AND SNOWPLOW MARKER LAYOUT PLANS			
CONTRACT NUMBER: TAS 08-321		DATE: 6/05	
DRAWING NUMBER: DMM-2			

NOTE:
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED.

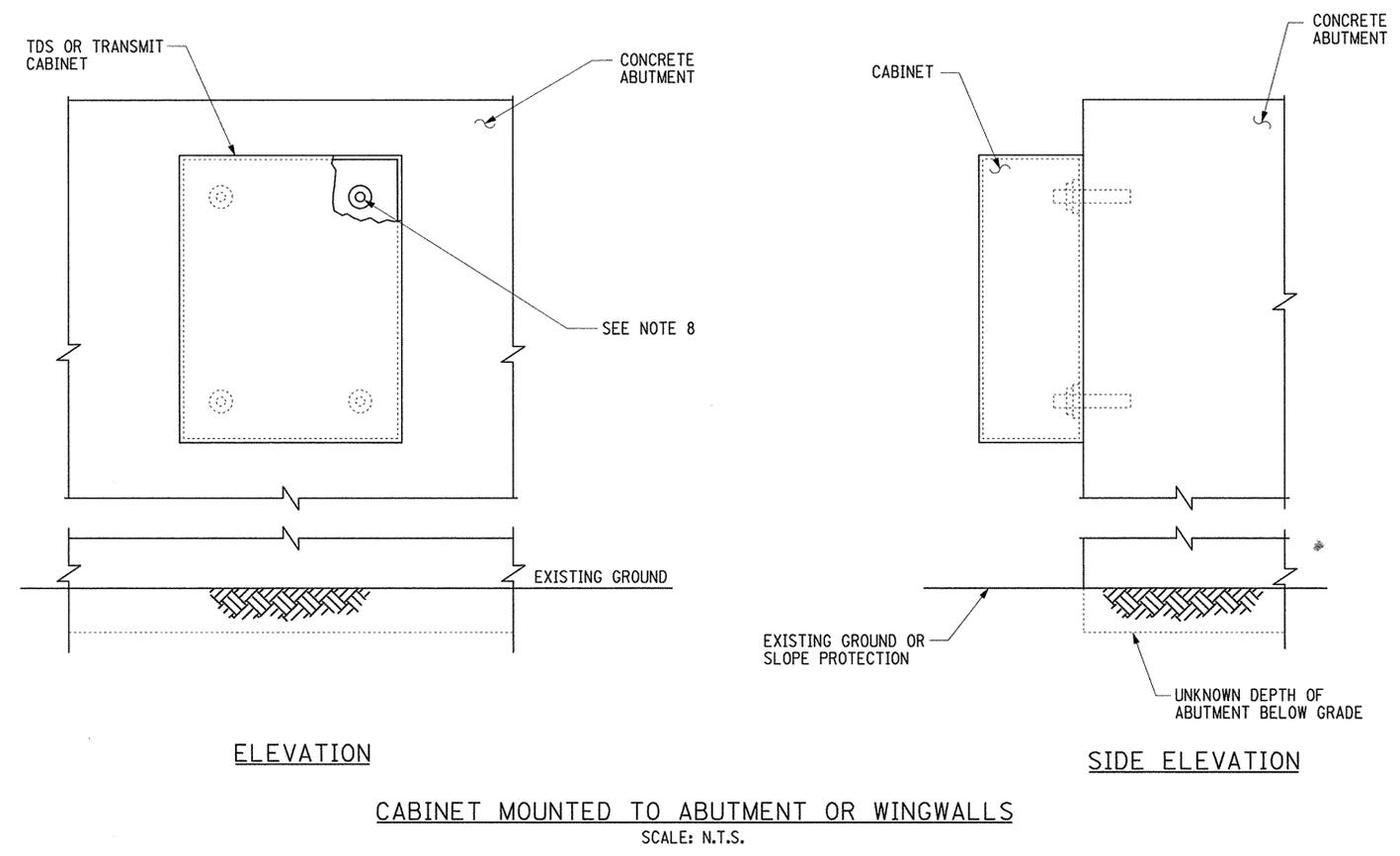


Discipline: NYSDOT
 Project: Highway Design
 Model: BALASCO-SP1

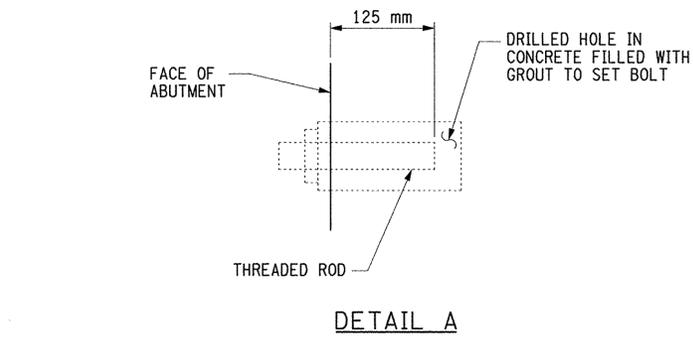
Plotted By: pbalasco
 Design File: I:\192500138\1\cnsupport\design\pbalasco\NONDIA&dr\dwg\MD9M0_S1F1-01.dgn
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IN CHARGE OF: J. JOHNS

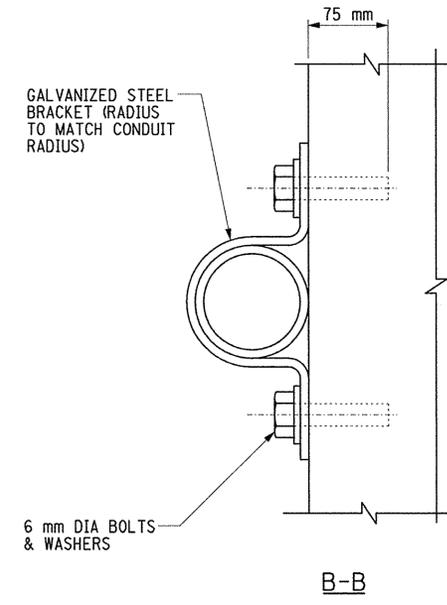
DESIGNED BY: M. CONLEY
 DRAFTED BY: P. BALASCO
 CHECKED BY: J. JOHNS



CABINET MOUNTED TO ABUTMENT OR WINGWALLS
 SCALE: N.T.S.

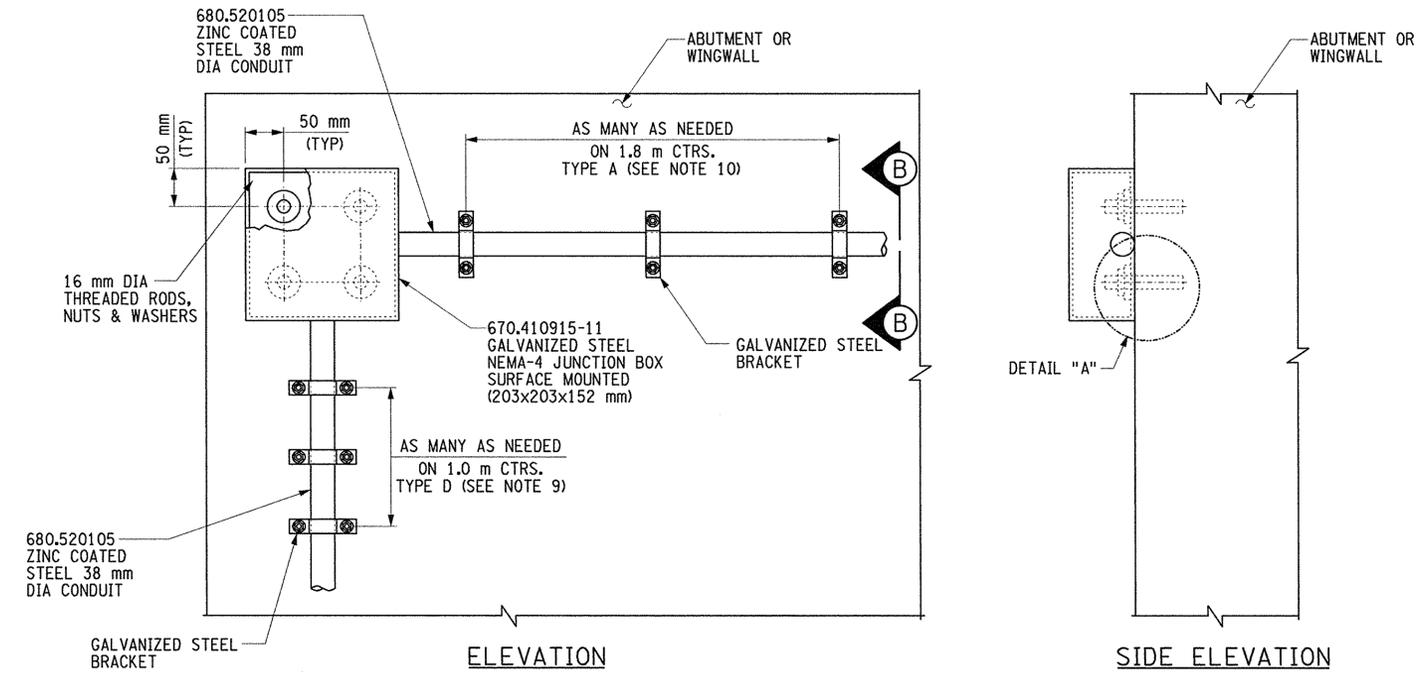


DETAIL A

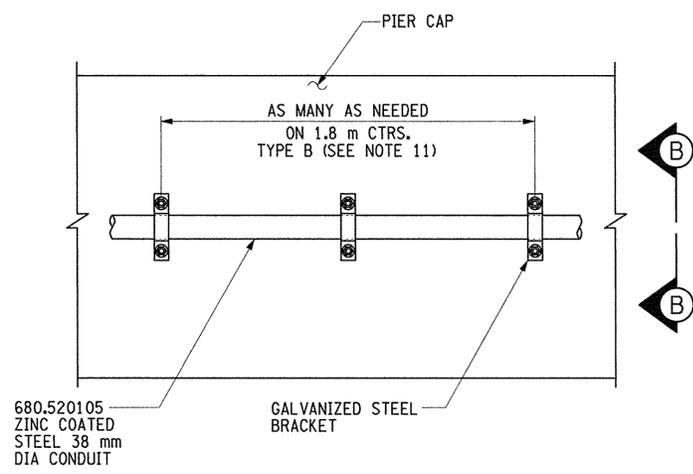


B-B

- NOTES:**
1. THE CONTRACTOR SHALL SURVEY EACH BRIDGE AND SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.
 2. ALL SUPPORT MEMBERS, PLATES AND SHAPES SHALL BE GALVANIZED EXCEPT AS NOTED. GALVANIZED STEEL SHALL CONFORM TO SUBSECTION 719-01 OF THE STANDARD SPECIFICATIONS. ALL FASTENER HARDWARE, SUCH AS BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL CONFORMING TO SUBSECTION 715-16 OF THE STANDARD SPECIFICATIONS.
 3. THE CONTRACTOR SHALL NOT USE WELDING TO INSTALL THE CONDUITS ON THE BRIDGE STRUCTURE.
 4. ALL MATERIALS NECESSARY FOR THE INSTALLATION OF THE JUNCTION INCLUDING STRUCTURAL STEEL, CLAMPS, BOLTS, CABLE AND FASTENERS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 670.410915-11.
 5. ALL MATERIALS NECESSARY FOR THE INSTALLATION OF THE CONDUIT INCLUDING STRUCTURAL STEEL, CLAMPS, BOLTS, CABLE AND FASTENERS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 206.0312-25.
 6. LOCKWASHERS OR JAM NUTS ARE REQUIRED FOR ALL BOLTED CONNECTIONS.
 7. METHOD OF CABLE SUPPORT MUST BE APPROVED BY THE ENGINEER.
 8. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS FOR CABINET MOUNTING ASSEMBLIES.
 9. CONDUIT INSTALLED VERTICALLY ON ABUTMENT, WINGWALL, PIER OR COLUMN IS CONDUIT INSTALLATION TYPE D.
 10. CONDUIT INSTALLED HORIZONTALLY ON ABUTMENT OR WINGWALL IS CONDUIT INSTALLATION TYPE A.
 11. CONDUIT INSTALLED ON FACE OF PIER CAP IS CONDUIT INSTALLATION TYPE B.



JUNCTION BOX & CONDUIT MOUNTED TO ABUTMENT OR WINGWALLS
 SCALE: N.T.S.

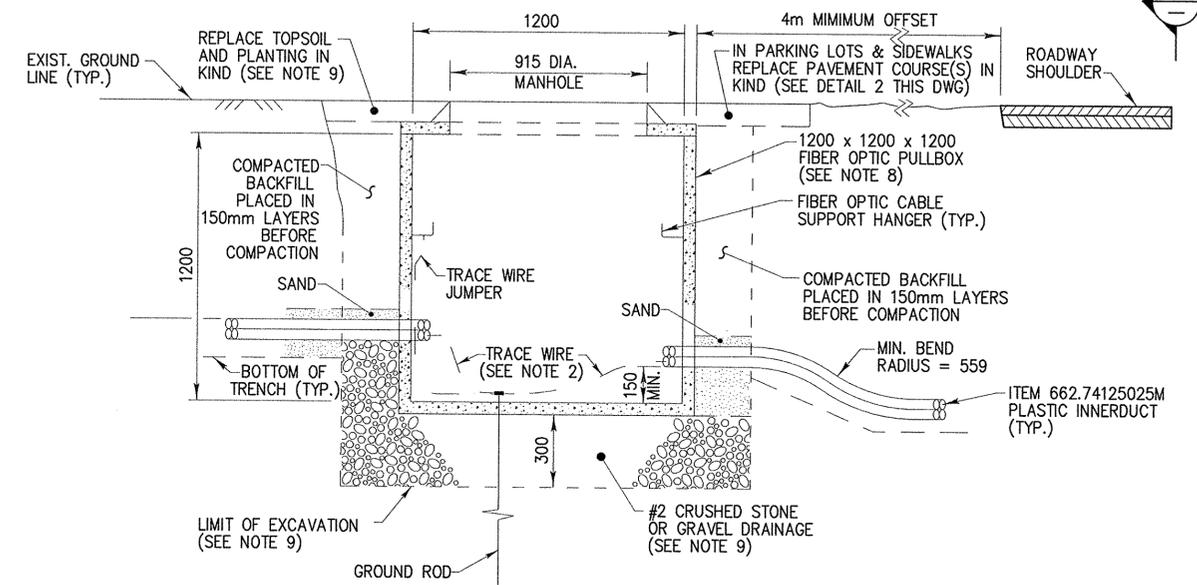


CONDUIT MOUNTED TO PIER CAP
 SCALE: N.T.S.

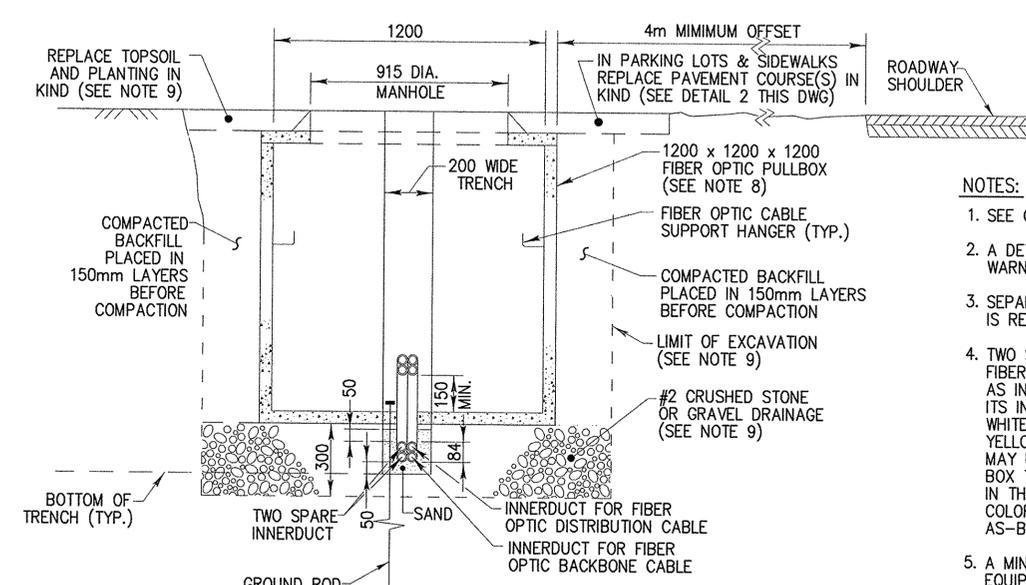
No As Built Revisions
 NOTE: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SY#
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT VARIOUS SITES IN SYRACUSE DIV.			
TITLE OF DRAWING CABINET, JUNCTION BOX AND CONDUIT INSTALLATION TYPE A, B & D			
CONTRACT NUMBER: TAS 08-32I			DATE: JULY 30, 2008
DRAWING NUMBER: MD-1			



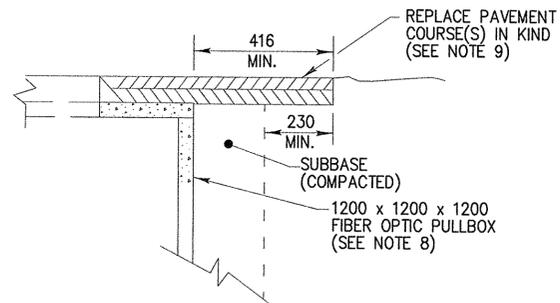


1 FIBER OPTIC PULLBOX
ITEM 680.5196--25M
NOT TO SCALE

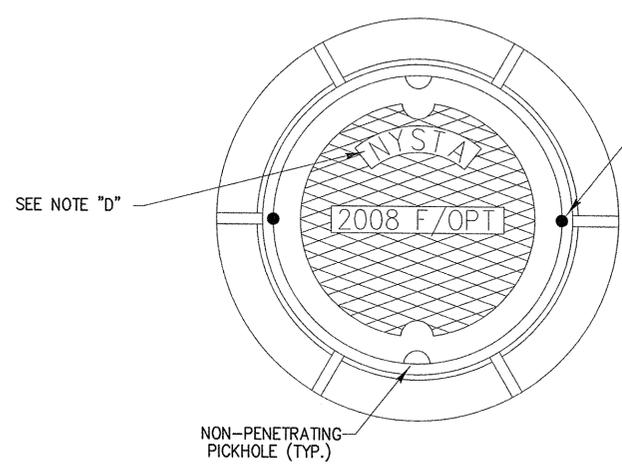


A SECTION
FIBER OPTIC TRENCH
DETAIL @ PULLBOX
NOT TO SCALE

- NOTES:**
- SEE GENERAL NOTES ON DRAWING NO. GN-1 AND GN-2.
 - A DETECTABLE MATERIAL SHALL BE PLACED IN ALL FIBER TRENCHING. WARNING TAPE IS TO BE PLACED IN TRENCH IN UNPAVED AREAS.
 - SEPARATE CONDUIT SHALL BE INSTALLED WHERE TELEPHONE SERVICE IS REQUIRED.
 - TWO SPARE INNERDUCT SHALL BE PLACED ALONG THE ENTIRE BACKBONE FIBER PATH. TYPICALLY, 4 INNERDUCT WILL BE PLACED IN THE TRENCH AS INDICATED IN THE PLANS. THE COLOR OF EACH DUCT SHALL DESIGNATE ITS INTENDED USE. THE TWO SPARE DUCT SHALL BE COLORED GREY AND WHITE. THE RED DUCT SHALL BE FOR BACKBONE FIBER CABLE AND THE YELLOW DUCT SHALL BE FOR DISTRIBUTION CABLE. THE CONTRACTOR MAY USE A FIFTH OR ADDITIONAL INNERDUCT FROM THE FIBER OPTIC PULL BOX TO AN EXISTING FIELD ELEMENT OR OTHER LOCATIONS AS SHOWN IN THE PLANS. WHEN ADDITIONAL DUCT IS USED, IT SHALL BE UNIQUELY COLORED (SUCH AS BLACK AND GREEN) WITH COLOR INDICATED IN THE AS-BUILT DRAWINGS.
 - A MINIMUM OF ONE TURN OF SPARE CABLE SHALL BE PLACED IN EQUIPMENT CABINETS. FIBER OPTIC PULLBOXES SHALL HAVE 35m OF SLACK COILED WITHIN.
 - FIBER OPTIC PULLBOXES SHALL BE SPACED A MAXIMUM DISTANCE OF 1500m WITH THE EXCEPTION OF WHERE FIBER IS BEING INSTALLED IN EXISTING CONDUIT. FIBER OPTIC PULLBOXES SHALL BE PLACED AS SHOWN ON THE PLANS AND AS NECESSARY TO FACILITATE FIBER CABLE INSTALLATION.
 - THE MINIMUM EXCAVATION DEPTH SHALL BE REDUCED IN ORDER TO FACILITATE A SMOOTH TRANSITION FOR INNER DUCT ENTRY INTO PULLBOXES WHERE REQUIRED.
 - THE INTERIOR DIMENSION OF THE FIBER OPTIC BACKBONE PULLBOXES MUST BE LARGE ENOUGH TO ACCOMMODATE THE SPLICE ENCLOSURE AND HAVE ADEQUATE SPACE FOR THE REQUIRED CABLE BENDING RADIUS. THE MINIMUM INTERIOR DIMENSIONS SHALL BE 1200mm LONG BY 1200mm WIDE AND 1200mm DEEP.
 - ALL EXCAVATION, BACKFILL MATERIAL, AND SURFACE RESTORATION, REQUIRED TO INSTALL THE PULLBOX SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 680.5196--25M.
 - SURPLUS BACKBONE FIBER OPTIC CABLE SHALL BE EVENLY DISTRIBUTED BETWEEN THE SPLICE ENCLOSURE AND THE INNER DUCTS. (EXAMPLE: 17.5m AT ENTRANCE SIDE AND 17.5m AT EXIT SIDE.)
 - SEE DETAIL 4 THIS SHEET FOR FIBER OPTIC PULLBOX COVER RAISED LETTERING.
 - TRACE WIRES SHALL BE TERMINATED IN ADJACENT ABOVE GROUND CABINET WHEN FEASIBLE, A.O.B.E.

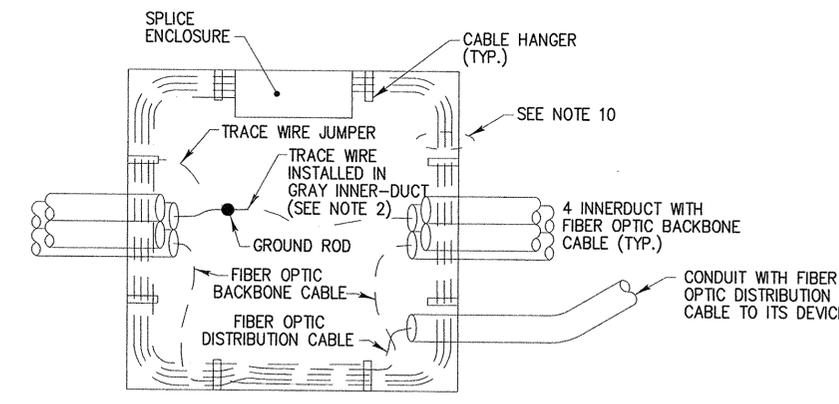


2 FIBER OPTIC PULLBOX ITEM 680.5196--25M
IN PARKING LOT OR SIDEWALK/WORK PAD
NOT TO SCALE

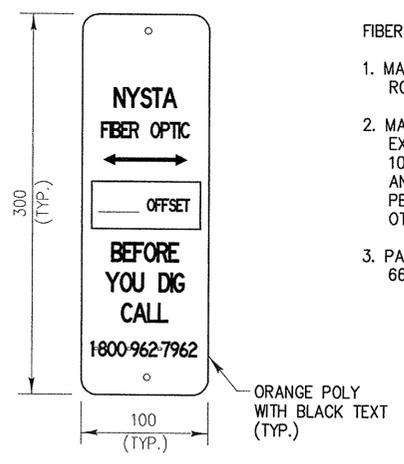


4 FIBER OPTIC PULLBOX COVER DETAIL
NOT TO SCALE

- PULLBOX COVER NOTES:**
- MATERIAL SHALL BE GRAY CAST IRON CONFORMING TO A.S.T.M. A48 (LATEST REVISION) CLASS 30B. SECTION THICKNESS AT ANY POINT SHALL BE A MINIMUM OF 1/2".
 - UNITS DESIGNED HEAVY DUTY FOR A.A.S.H.T.O. HS20-44 WHEEL LOADS.
 - EACH FRAME AND COVER SHALL HAVE MACHINED HORIZONTAL BEARING SURFACES.
 - LETTERING VARIES DEPENDING ON LOCATION. USE NITTEC NYSTA ON THRUWAY ROW, OR NITTEC NYSDOT ON NYSDOT ROW.



3 FIBER OPTIC PULLBOX WIRING
TOP VIEW
NOT TO SCALE



3 FIBER OPTIC CABLE PATH MARKERS
NOT TO SCALE

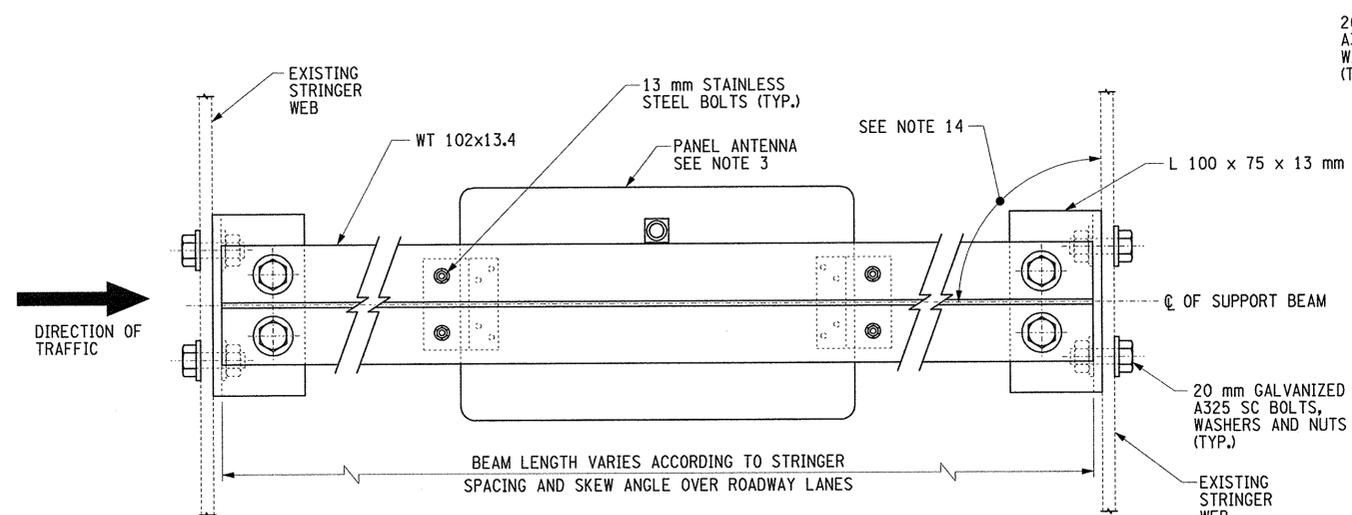
- FIBER OPTIC MARKER NOTES:**
- MARKERS SHALL BE SPACED A MAXIMUM OF 160m AND AT ALL ROADWAY CROSSINGS.
 - MARKERS SHALL BE MOUNTED ON 2.1m GALVANIZED STEEL POSTS EXCEPT WHERE PERMANENT FIXED ROADSIDE OBJECTS EXIST WITHIN 10m OF THE FIBER PATH (SUCH AS ROW FENCE, NOISE WALLS/SCREENS, AND RETAINING WALLS), THE MARKERS SHALL BE AFFIXED TO THE PERMANENT FEATURE INSTEAD OF BEING MOUNTED TO A POST. ALL OTHER MOUNTING IS SUBJECT TO THE ENGINEER'S APPROVAL.
 - PATH MARKERS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 662.74125025M.

NOTE: *No As Built Revisions*
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

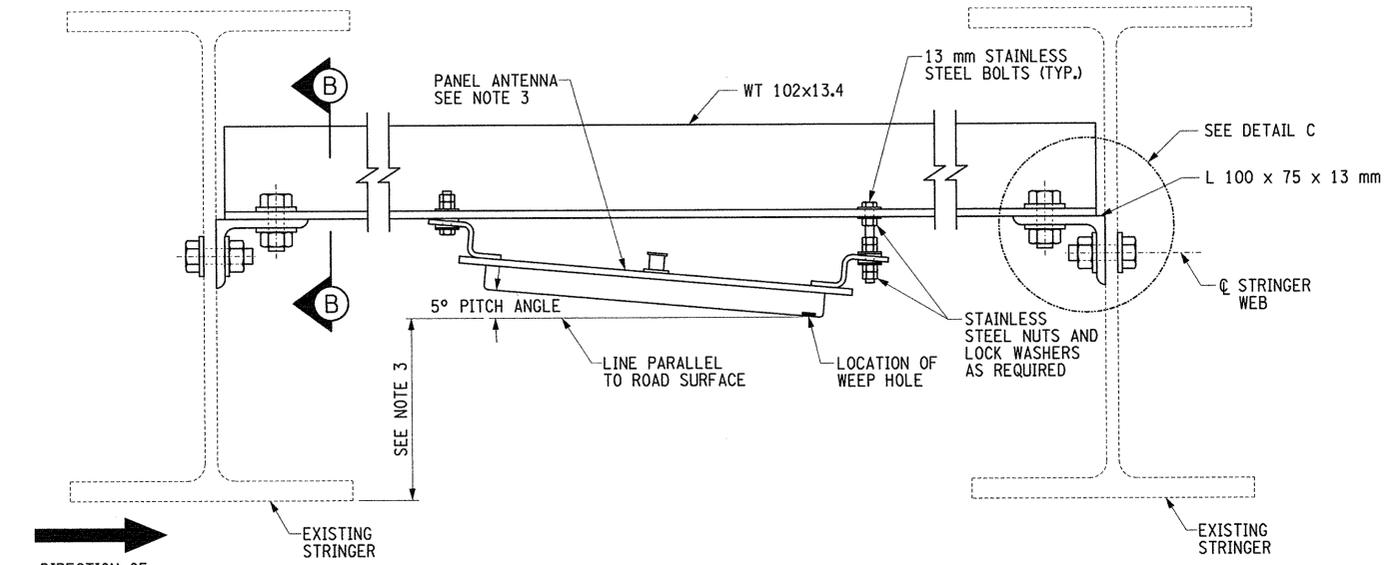
DATE	DESCRIPTION	BY	SYM
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING FIBER OPTIC PULLBOX DETAILS			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: MD-3			

Discipline: NYSDOT
 Project: NY Highway Design
 Design File: BALASCO-SPT
 Date: 9/29/2008
 Checked By: J. JOHNS
 Drafted By: M. CONLEY
 In Charge Of: J. JOHNS

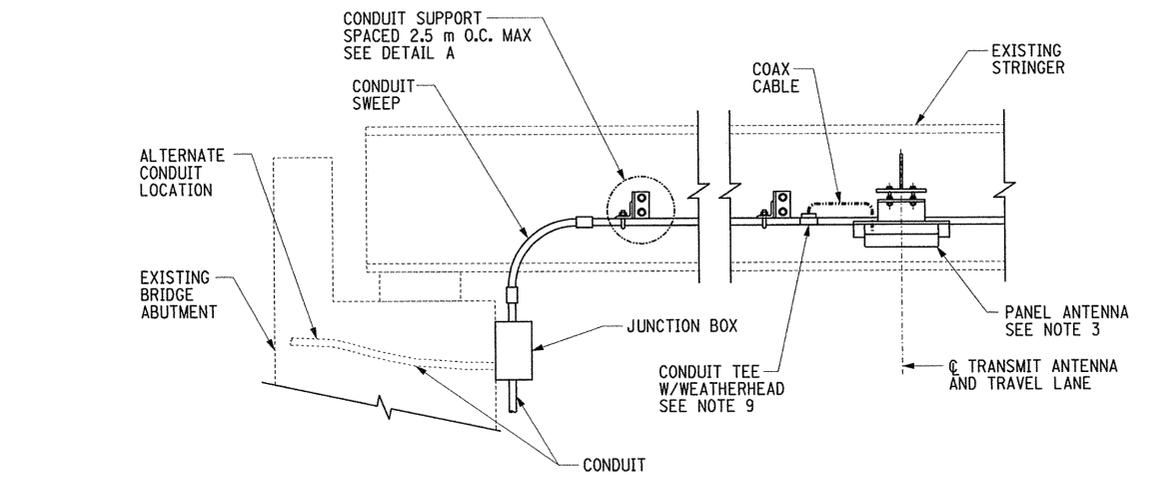
PLOTTED BY: P. BALASCO
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 PROJECT: NY THRUWAY DESIGN
 DRAWING: BALASCO-SP1
 DESIGNED BY: J. JOHNS
 CHECKED BY: J. JOHNS
 DRAFTED BY: P. BALASCO
 IN CHARGE OF: J. JOHNS



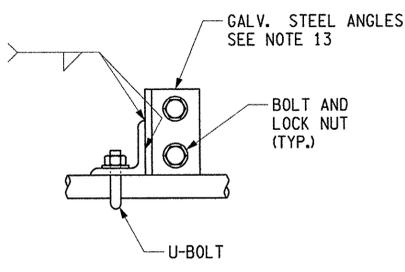
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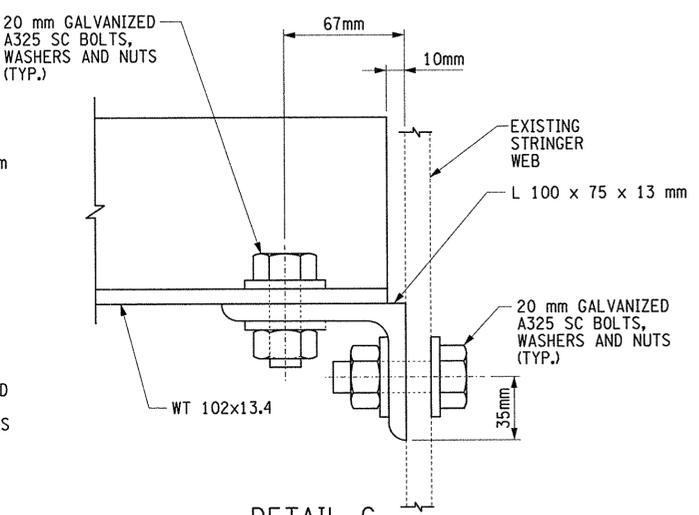
ELEVATION
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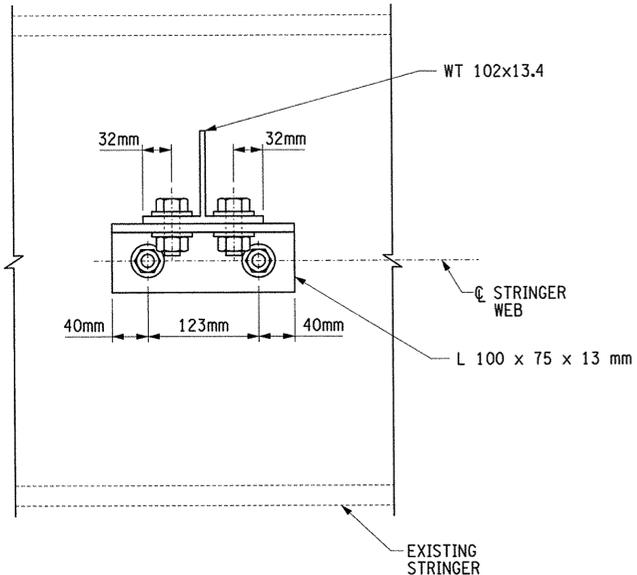
CONDUIT LAYOUT AT ABUTMENT
SCALE: N.T.S.



DETAIL A
SCALE: N.T.S.



DETAIL C
SCALE: N.T.S.



SECTION B-B
SCALE: N.T.S.

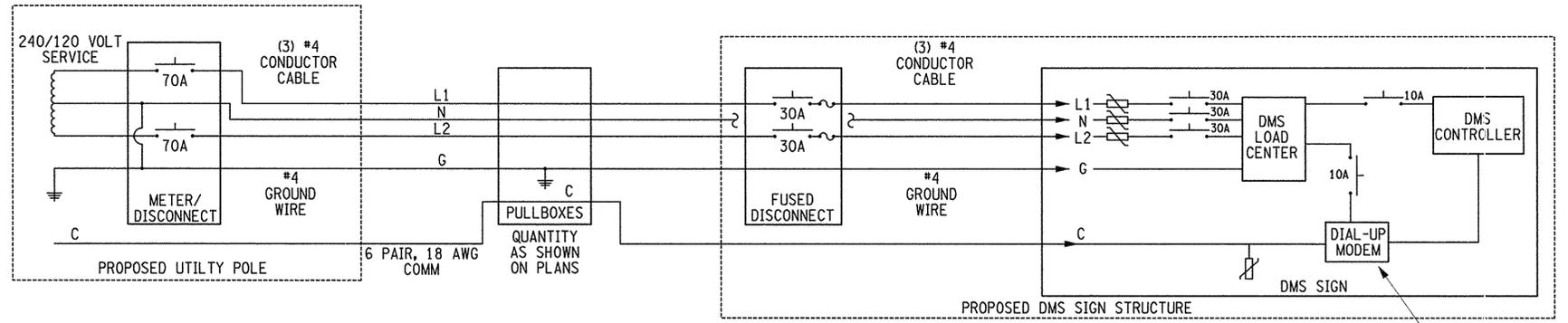
NOTES:

1. ANTENNAE SUPPORT AND ATTACHMENT DETAILS ARE CONCEPTUAL. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUPPORTING CALCULATIONS FOR ALL ANTENNAE SUPPORTS AND ATTACHMENTS. SHOP DRAWINGS SHALL BEAR THE STAMP OF A LICENSED N.Y.S. P.E. CALCULATIONS SHALL DEMONSTRATE THAT THE ANTENNA ATTACHMENTS CONFORM TO THE CURRENT AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS.
2. THE CONTRACTOR SHALL FIELD VERIFY EXISTING BRIDGE CONDITIONS AND DIMENSIONS RELATIVE TO PROPOSED CONDUIT AND ANTENNA SUPPORT LOCATIONS PRIOR TO FABRICATION AND CONSTRUCTION.
3. THE CONTRACTOR SHALL POSITION THE PROPOSED CONDUIT AND ANTENNA SUPPORTS SUCH THAT THE MINIMUM VERTICAL UNDER CLEARANCE IS NOT LESS THAN THE EXISTING CONDITION WITH TRANSIT ANTENNA IN FINAL POSITION.
4. ALL SUPPORT MEMBERS, PLATES AND SHAPES SHALL BE GALVANIZED EXCEPT AS NOTED. GALVANIZED STEEL SHALL CONFORM TO SUBSECTION 719-01 OF THE STANDARD SPECIFICATIONS. ALL FASTENER HARDWARE, SUCH AS BOLTS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL CONFORMING TO SUBSECTION 715-16 OF THE STANDARD SPECIFICATIONS, EXCEPT A325 BOLTS, WASHERS AND NUTS AS NOTED.
5. THE CONTRACTOR SHALL NOT USE WELDING TO INSTALL THE CONDUITS ON THE BRIDGE STRUCTURE.
6. ANTENNA WIRING SHALL BE INSTALLED IN 1 1/2 NPS GALVANIZED STEEL ZINC COATED CONDUIT ITEM 680.520105 UNLESS NOTED OTHERWISE.
7. ALL MATERIALS NECESSARY FOR THE INSTALLATION OF THE ANTENNA INCLUDING PIPE, STRUCTURAL STEEL, CLAMPS, BOLTS, CABLE, AND FASTENERS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 683.3011-25M.
8. MATERIALS AND INSTALLATION METHODS USED TO ATTACH THE SUPPORT ANGLES TO THE EXISTING BRIDGE MEMBERS SHALL MEET THE REQUIREMENTS OF THE AISC MANUAL OF STEEL CONSTRUCTION.
9. ALL CHANGES IN CONDUIT DIRECTION SHALL BE DONE UTILIZING SWEEPS, TEES, LB TYPE FITTING, ETC., ARE ALLOWED ONLY WHERE THE ANTENNA WIRE MUST EXIT A CONDUIT THAT CONTINUES ACROSS THE STRUCTURE.
10. LOCKWASHERS OR JAM NUTS ARE REQUIRED ON ALL BOLTED CONNECTIONS.
11. MOUNTING BRACKET BOLTED TO WEB OF BEAM. DRILL WEB OF BEAM FOR ATTACHMENT BOLTS. MAXIMUM BOLT HOLE SIZE IS 21 mm.
12. THE CLEARANCE OF ALL CONDUIT AND SUPPORTS PLACED OVER THE TRAVELED ROADWAY AND SHOULDERS SHALL NOT BE LESS THAN EXISTING CLEARANCE OR 4.42 m, WHICHEVER IS GREATER.
13. MINIMUM ANGLE THICKNESS IS 6 mm. SIZE OF ANGLE(S) MUST BE ADJUSTED TO SIZE OF CONDUIT, UNLESS NOTED OTHERWISE.
14. ANGLE OF MOUNTING STEEL CAN VARY AT EACH STRUCTURE WHERE ANTENNAS ARE TO BE LOCATED. CENTERLINE OF WT SUPPORT BEAM SHALL BE ALIGNED WITH CENTERLINE OF TRAVEL LANE BELOW FOR PROPER ANTENNA ORIENTATION.

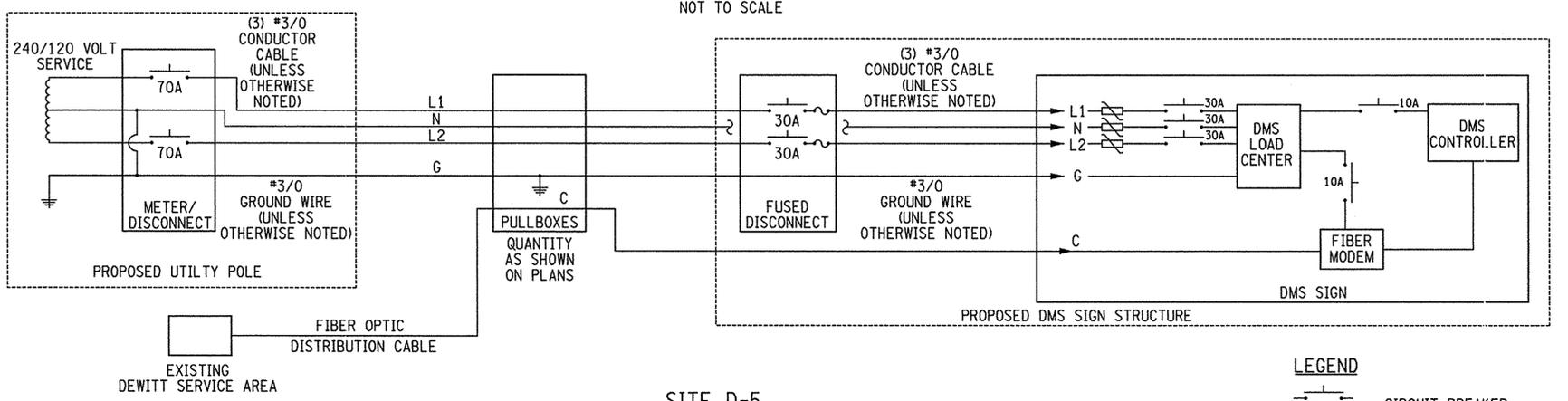
NOTE: *No As Built Revisions*
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT VARIOUS SITES IN SYRACUSE DIV.			
TITLE OF DRAWING DETAIL FOR TYPE 1-ANTENNA MOUNTED TO INTERIOR BEAM			
CONTRACT NUMBER:		TAS 08-321	
DATE:		JULY 30, 2008	
DRAWING NUMBER:		MD-4	





SEE NOTE 1



SITE D-6
NOT TO SCALE

SITE D-5
NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL FURNISH AND INSTALL THE DATA MODEM INSIDE THE DMS SIGN. THE WORK SHALL BE PAID FOR UNDER ITEM 645.4506--25 M.
2. NYSTA SHALL PROVIDE AND INSTALL REQUIRED MODEM.
3. ELECTRICAL SERVICE CABLES TO FIELD CABINETS AND GROUND WIRES SHALL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS AS SHOWN ON THE PLANS.
4. ALL CABLES/WIRES WITHIN DMS SIGN, NOT MENTIONED ABOVE, SHALL BE PAID UNDER ITEM 645.4506--25M.
5. ALL CIRCUITS AND BREAKERS SHALL BE CLEARLY LABELED.
6. THE SIZE OF CIRCUIT BREAKERS SHALL BE REFERRED TO THE TABLE BELOW:

SITE	MAIN BREAKER (A)	FUSED DISCONNECT (B)
D-5	70 A	30 A
D-6	70 A	30 A

7. THE WIRE SIZES SHALL BE REFERRED TO THE TABLE BELOW:

SITE	# OF CONDUCTOR & SIZE	GROUND WIRE SIZE
D-5 *	(3) #3/0	#3/0
D-6	(3) #4	#4

* SIZE ADJUSTED FOR VOLTAGE DROP

LEGEND

- 30A CIRCUIT BREAKER
- FUSE
- TRANSFORMER
- GROUNDING
- NC NO CONNECTION
- SURGE SUPPRESSOR

NOTE: *No As Built Revisions*
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

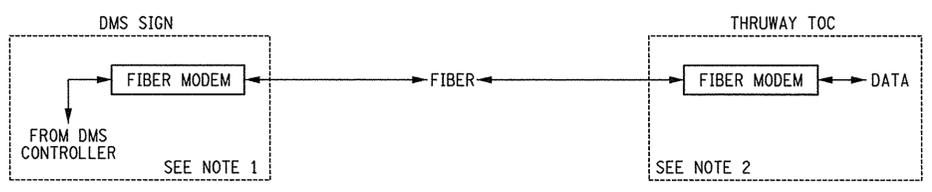
DATE	DESCRIPTION	BY	SYL
REVISIONS			

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

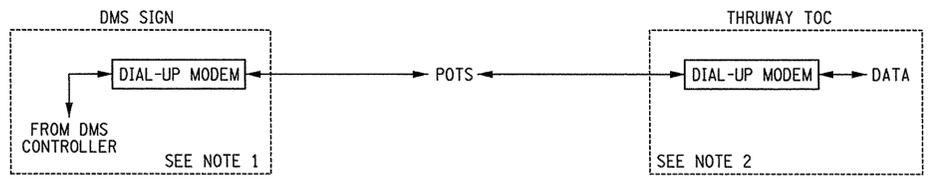
TITLE OF PROJECT
INSTALLATION OF ITS DEVICES
I-90 VAR. LOC. SYRACUSE DIV.
LOCATION OF PROJECT
SYRACUSE DIVISION
TITLE OF DRAWING

MISCELLANEOUS DETAILS

CONTRACT NUMBER:
TAS 08-321
DATE:
JULY 30, 2008
DRAWING NUMBER:
MD-5



TYPE B COMMUNICATION
DMS TRANSMISSION VIA FIBER
NOT TO SCALE

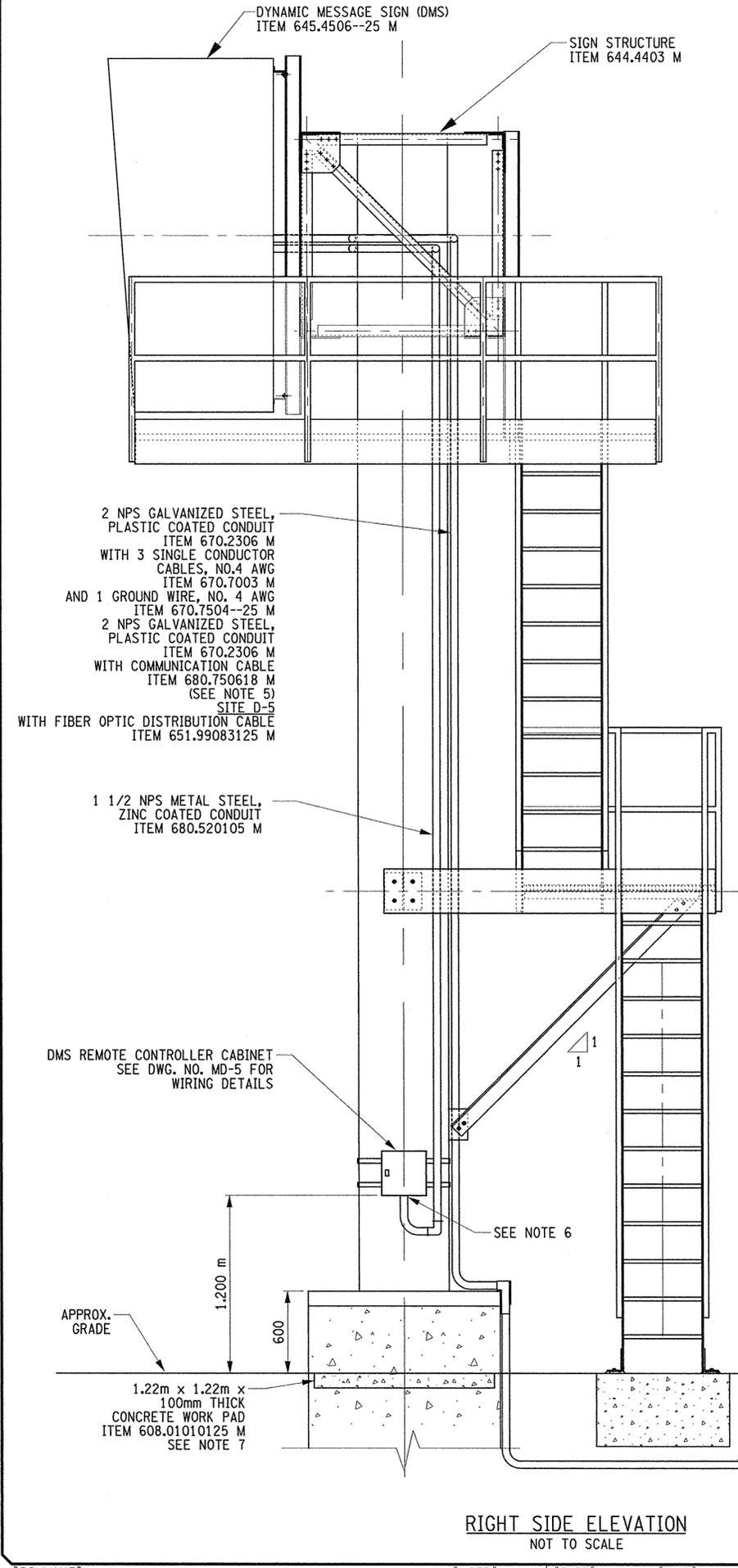


TYPE A COMMUNICATION
DMS TRANSMISSION VIA POTS
NOT TO SCALE

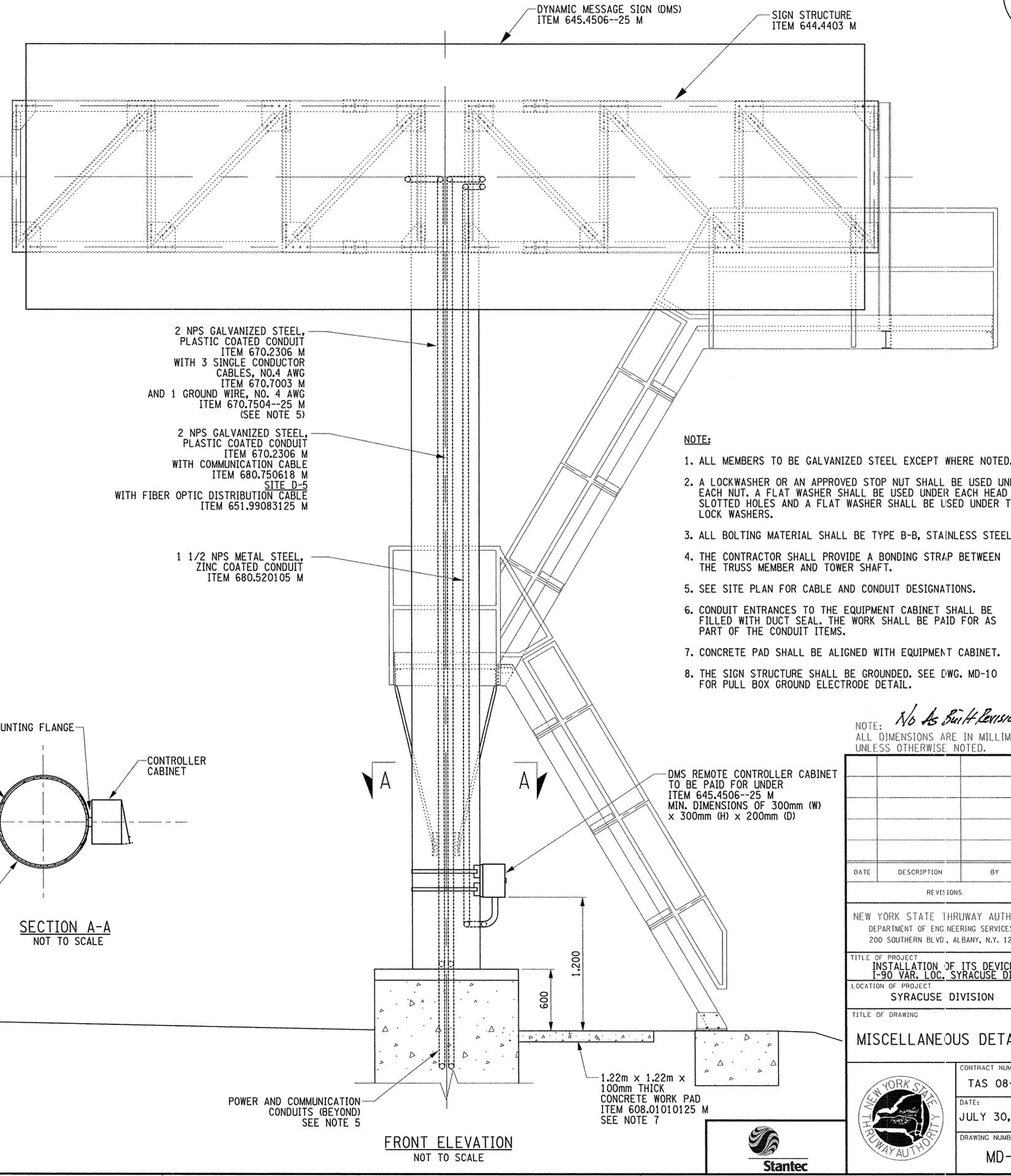
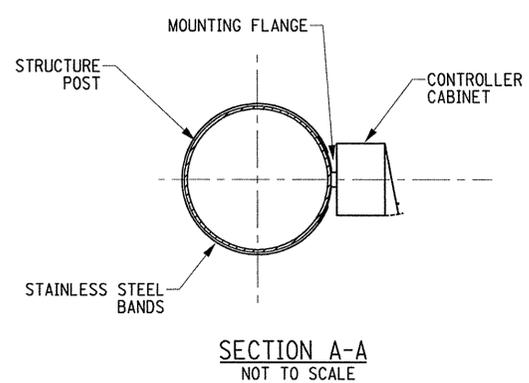
SITE	LOCATION	MP	CABINET TYPE	COMMUNICATION TYPE
D-5	I-90 WESTBOUND	280.00	DMS	B
D-6	I-90 EASTBOUND	288.45	DMS	A

IN CHARGE OF: J. JOHNS
 DESIGNED BY: M. CONLEY
 DRAFTED BY: P. BALASCO
 CHECKED BY: J. JOHNS
 Plotted By: pbalasco
 Design File: \\s1925001\8681r\oneport\oneport\designs\01\MD\MD\MD\SYS_05_mdf.dgn
 Project: NY_Highway_Design
 Date: 9/29/2008
 Discipline: NYSDOT
 Project: NY_Highway_Design
 Model: BALASCO-P1

PLOTTED BY: pbalasco
 Design File: Up119250013861r-ansp-r-1010125.dgn
 Plot Date: 9/29/2008 2:59:05 PM
 Discipline: NYSDOT
 Project: NY Highway Design
 Model: BALASCO-SP1
 DRAFTER BY: P. BALASCO
 CHECKED BY: J. JOHNS
 DESIGNED BY: M. CONLEY
 IN CHARGE OF: J. JOHNS



RIGHT SIDE ELEVATION
NOT TO SCALE



FRONT ELEVATION
NOT TO SCALE

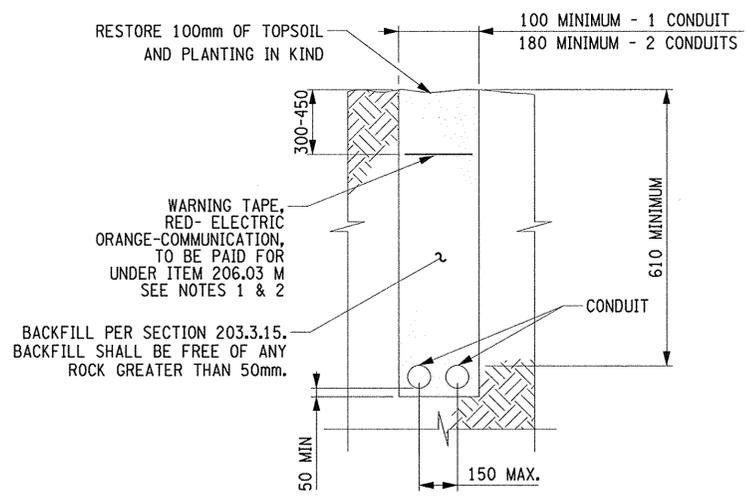
- NOTE:**
1. ALL MEMBERS TO BE GALVANIZED STEEL EXCEPT WHERE NOTED.
 2. A LOCKWASHER OR AN APPROVED STOP NUT SHALL BE USED UNDER EACH NUT. A FLAT WASHER SHALL BE USED UNDER EACH HEAD WITH SLOTTED HOLES AND A FLAT WASHER SHALL BE USED UNDER THE LOCK WASHERS.
 3. ALL BOLTING MATERIAL SHALL BE TYPE B-B, STAINLESS STEEL.
 4. THE CONTRACTOR SHALL PROVIDE A BONDING STRAP BETWEEN THE TRUSS MEMBER AND TOWER SHAFT.
 5. SEE SITE PLAN FOR CABLE AND CONDUIT DESIGNATIONS.
 6. CONDUIT ENTRANCES TO THE EQUIPMENT CABINET SHALL BE FILLED WITH DUCT SEAL. THE WORK SHALL BE PAID FOR AS PART OF THE CONDUIT ITEMS.
 7. CONCRETE PAD SHALL BE ALIGNED WITH EQUIPMENT CABINET.
 8. THE SIGN STRUCTURE SHALL BE GROUNDED. SEE DWG. MD-10 FOR PULL BOX GROUND ELECTRODE DETAIL.

No As Built Revisions
 NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYD.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING MISCELLANEOUS DETAILS			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: MD-6		 	

TRENCHLESS INSTALLATION NOTES:

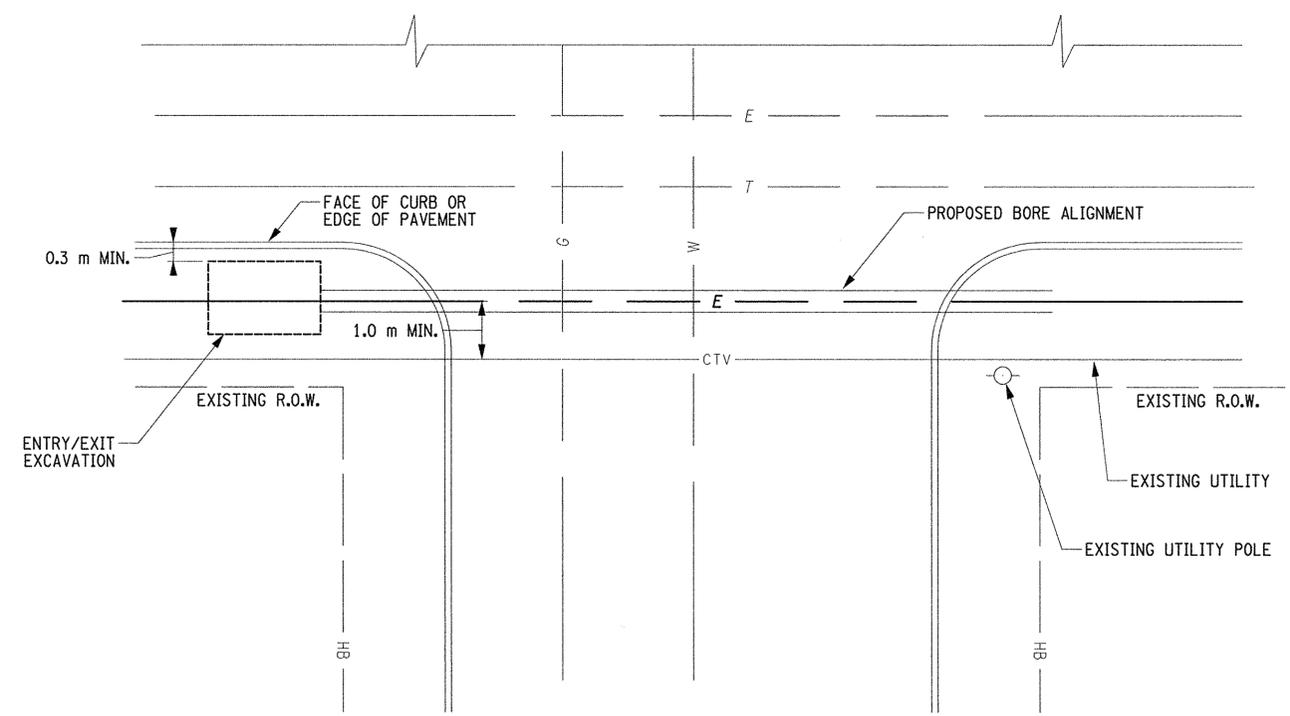
1. THE CONTRACTOR SHALL CALL THE FOLLOWING NUMBER BEFORE START OF ANY WORK: DIG SAFELY NEW YORK: 1-800-962-7962 OR 811.



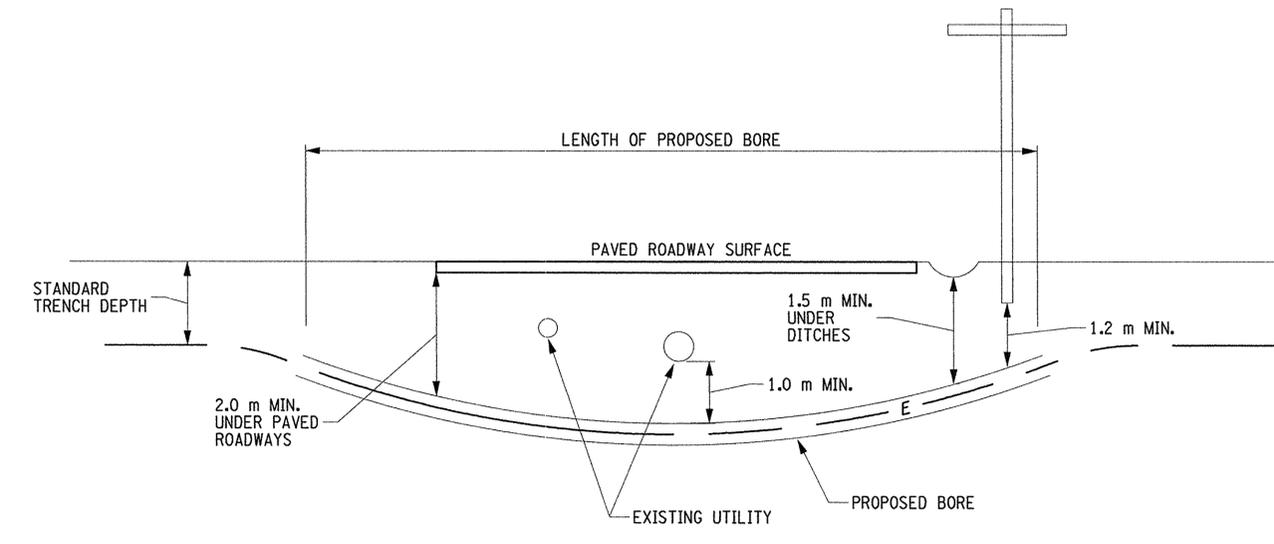
TYPICAL CONDUIT EXCAVATION AND BACKFILL DETAIL (ELECTRIC AND NON-FIBER COMMUNICATION)
ITEM 206.03 M
NOT TO SCALE

NOTES:

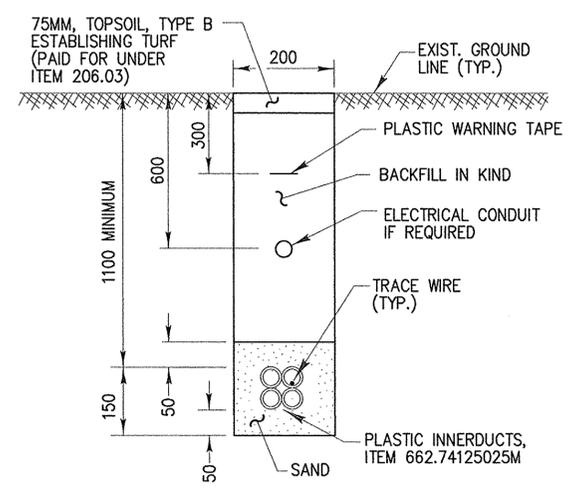
1. ALL UNDERGROUND PRIMARY CABLE SHALL BE MARKED IN THE TRENCH USING MARKING TAPE FURNISHED BY THE UTILITY COMPANY.
2. THE MARKING TAPE SHALL BE PLACED APPROXIMATELY 300mm TO 450mm BELOW FINISHED GRADE AS SHOWN, WHILE BACKFILLING CABLE TRENCH.
3. SELECTED BACKFILL OF ROCK-FREE SOIL SHALL BE PLACED IN 150mm LAYERS, ONE AT A TIME, AND EACH LAYER WELL TAMPED.



TRENCHLESS INSTALLATION HORIZONTAL MINIMUM CLEARANCES
NOT TO SCALE



TRENCHLESS INSTALLATION VERTICAL MINIMUM CLEARANCES
NOT TO SCALE



TYPICAL CONDUIT EXCAVATION AND BACKFILL DETAIL (FIBER OPTIC COMMUNICATION)
ITEM 206.03 M
NOT TO SCALE

TRENCHLESS INSTALLATION OF CASING				
KEYNOTE	ITEM NO.	DESCRIPTION	CASING SIZE	NOTES
153	650.1006	TRENCHLESS INSTALLATION OF CASING UNDER HIGHWAY - DIA. ≤ 600mm (150mm)	6 NPS	1
193	650.1004	TRENCHLESS INSTALLATION OF CASING UNDER HIGHWAY - DIA. ≤ 600mm (100mm)	4 NPS	1

No As Built Revisions
NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYL
REVISIONS			

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
INSTALLATION OF ITS DEVICES
I-90 VAR. LOC. SYRACUSE DIV.
LOCATION OF PROJECT
SYRACUSE DIVISION

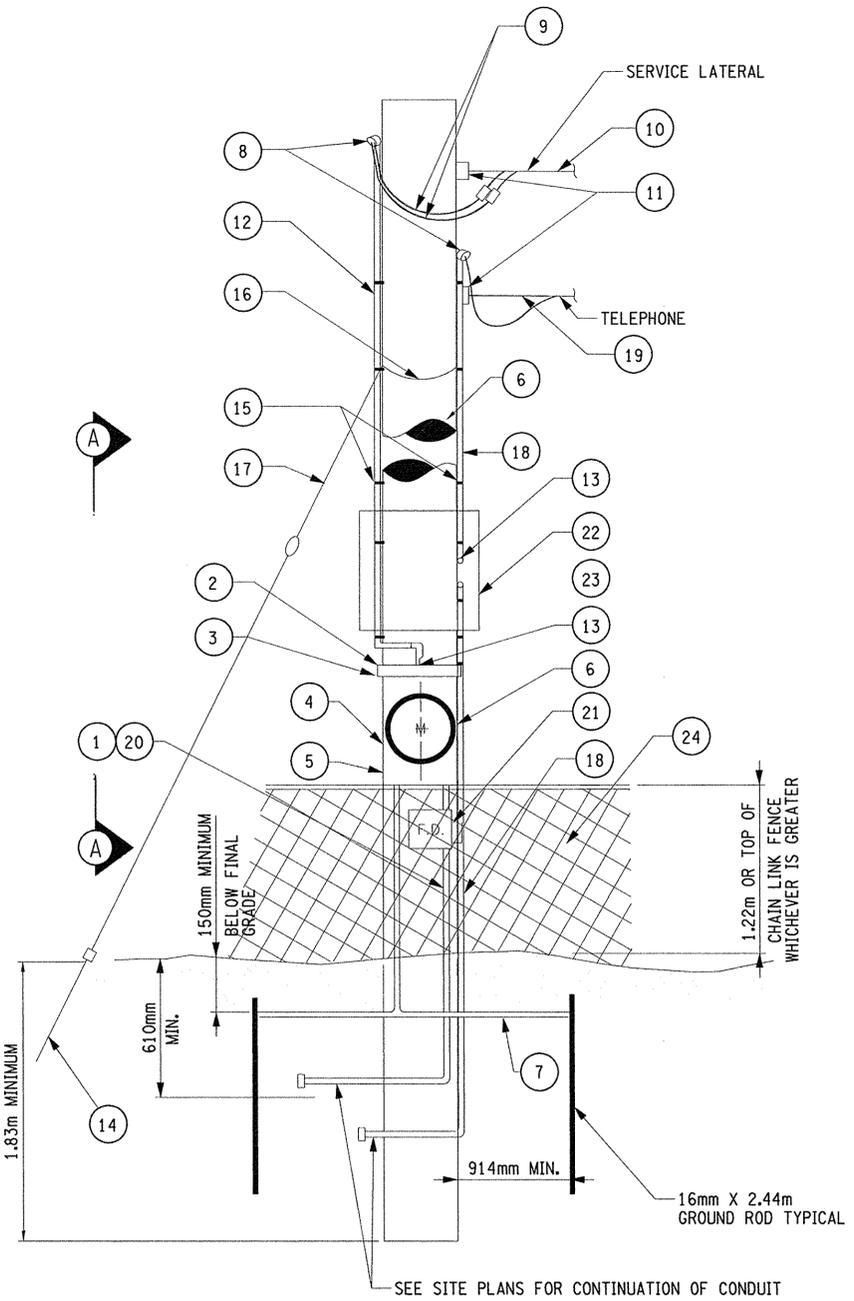
TITLE OF DRAWING
CONDUIT TRENCHING DETAILS

CONTRACT NUMBER:
TAS 08-321
DATE:
JULY 30, 2008
DRAWING NUMBER:
MD-7



IN CHARGE OF: J. JOHNS
 DESIGNED BY: M. CONLEY
 DRAFTED BY: P. BALASCO
 CHECKED BY: J. JOHNS
 PLOTTED BY: pbalasco
 Design File: 9/29/2008
 Plot Date: 2:59:07 PM
 Discipline: NYSDOT
 Project: NY Highway Design
 Model: BALASCO-SP1

IN CHARGE OF: J. JOHNS
 DESIGNED BY: M. CONLEY
 DRAFTED BY: P. BALASCO
 CHECKED BY: J. JOHNS
 PLOTTED BY: pbalasco
 Design File: 9/29/2008
 Plot Date: 9/29/2008
 Discipline: NYSDOT
 Project: NY_Highway_Design
 Node: BALASCO-SPI

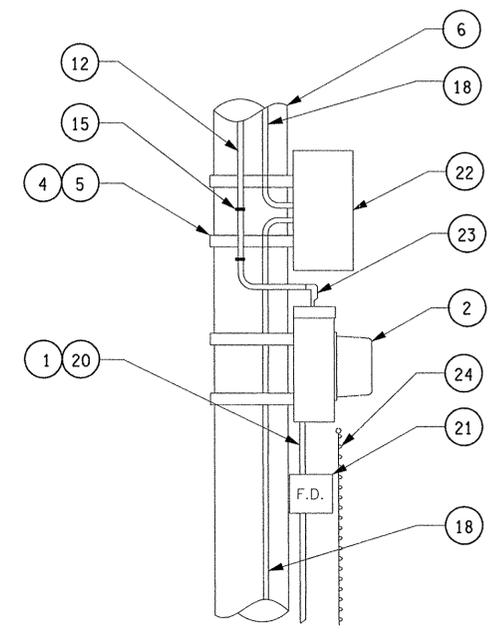


TYPICAL SERVICE POLE FOR AERIAL UTILITY SERVICE
ITEM 660.2003--25 M
 NOT TO SCALE

- NOTES:**
1. ALL ITEMS SHOWN ON THIS DETAIL SHALL BE INSTALLED UNDER ITEM 660.2003--25M UNLESS OTHERWISE NOTED.
 2. ALL WORK SHALL BE COORDINATED WITH AND COMPLY WITH UTILITY COMPANY REQUIREMENTS.
 3. FOR ADDITIONAL GUY ANCHOR DETAILS SEE STANDARD SHEET M680-10.
 4. ALL NUTS, BOLTS, SCREWS ETC. SHALL BE STAINLESS STEEL.
 5. THE UTILITY POLE SHALL BE INSTALLED INSIDE AND AGAINST THE CHAIN LINK FENCE WHERE EXISTING. THE METER AND TELEPHONE TERMINATION CABINETS SHALL FACE OUTSIDE OF THE THRUWAY ROW FOR ACCESS BY THE UTILITY COMPANIES.

SERVICE POLE CODED NOTES:

- 1 METERED LINES UNDERGROUND TO EQUIPMENT CABINET.
- 2 BOX TYPE METER SOCKET WITH SINGLE-PHASE LEVER BYPASS FACILITY. APPROVED BY THE UTILITY COMPANY. FURNISHED AND INSTALLED BY THE CONTRACTOR IN A TRUE VERTICAL POSITION.
- 3 6mm DIA. x 19mm LONG BOLTS WITH NUT AND WASHER, ALL ZINC COATED STEEL. A TOTAL OF (4) REQUIRED. (2) FOR TOP AND (2) FOR BOTTOM.
- 4 KINDORF "ERECTOR CHANNEL" OR COMPANY ACCEPTED EQUAL, 12 GAUGE ZINC COATED STEEL, WITH HOLES 38mm H x 19mm W x (LENGTH = WIDTH OF ASSOCIATED METER SOCKET). (2) REQUIRED, (1) FOR TOP AND (1) FOR BOTTOM. (2) 38mm THICK MINIMUM PRESSURE TREATED WOOD (6.41 Kg/Cm² CCA RATING MINIMUM.)
- 5 13mm x 102mm ZINC COATED LAG BOLTS. A MINIMUM TOTAL OF (2) REQUIRED, (1) FOR TOP AND (1) FOR BOTTOM.
- 6 METER POLE FURNISHED AND INSTALLED BY CONTRACTOR. POLE TO BE 127mm MINIMUM DIAMETER AT TOP, 203mm MINIMUM DIAMETER AT 1.83m FROM BUTT. NORMALLY, 10.7m POLE TO BE FULLY PRESSURE TREATED WITH PENTACHLOROPHENAL IN OIL = EEI SPEC. TD 100, OR ACCEPTABLE EQUIVALENT.
- 7 INSTALL SERVICE ENTRANCE GROUND IN ACCORDANCE WITH LATEST VERSION OF N.E.C.
- 8 RAINTIGHT SERVICE HEAD
- 9 LEAVE 600mm OF SERVICE ENTRANCE CONDUCTORS AND GROUNDING CONDUCTORS FOR SERVICE DROP CONNECTION BY COMPANY.
- 10 ELECTRIC COMPANY SERVICE DROP, PAID UNDER THE ITEM SHOWN ON THE PLANS.
- 11 SERVICE BRACKET FURNISHED BY UTILITY COMPANY, INSTALLED BY CONTRACTOR BELOW WEATHERHEAD.
- 12 SERVICE ENTRANCE CONDUCTORS IN CLASS 1 RIGID METAL STEEL CONDUIT MEETING THE REQUIREMENTS OF SECTION 723-20 OF THE NYSDOT STANDARD SPECIFICATIONS. SEE SITE PLANS FOR CONDUIT DESIGNATIONS.
- 13 WATERTIGHT FITTING
- 14 2.13m ANCHOR ROD WITH 0.08m METAL ANCHOR.
- 15 CONDUIT STRAPS NOT MORE THAN 760mm INTERVALS.
- 16 16mm THRU BOLT WITH ANGLE GUY HOOK FOR 8mm GUY STRAND, 203mm BELOW CONDUCTORS.
- 17 8mm GUY STRAND WITH INSULATOR.
- 18 TELEPHONE SERVICE RISER - 2 NPS CLASS 1 RIGID METAL STEEL CONDUIT MEETING THE REQUIREMENTS OF SECTION 723-20 OF THE NYSDOT STANDARD SPECIFICATIONS. LIMITS TO BE PAID FOR UNDER ITEM 660.2003--25 M SHALL BE TO HORIZONTAL END OF SWEEP.
- 19 TELEPHONE COMPANY SERVICE DROP, PAID UNDER THE ITEM SHOWN ON THE PLANS.
- 20 CLASS 1 RIGID METAL STEEL CONDUIT MEETING THE REQUIREMENTS OF SECTION 723-20 OF THE NYSDOT STANDARD SPECIFICATIONS. LIMITS TO BE PAID FOR UNDER ITEM 660.2003--25 M SHALL BE TO HORIZONTAL END OF SWEEP. SEE SITE PLANS FOR CONDUIT DESIGNATIONS.
- 21 LOCKABLE FUSED DISCONNECT SWITCH, NEMA 3R ENCLOSURE.
- 22 LOCKABLE TERMINATION CABINET REQUIRED BY TELEPHONE COMPANY.
- 23 90° PULLING ELBOW
- 24 CHAIN LINK FENCE WHERE EXISTING

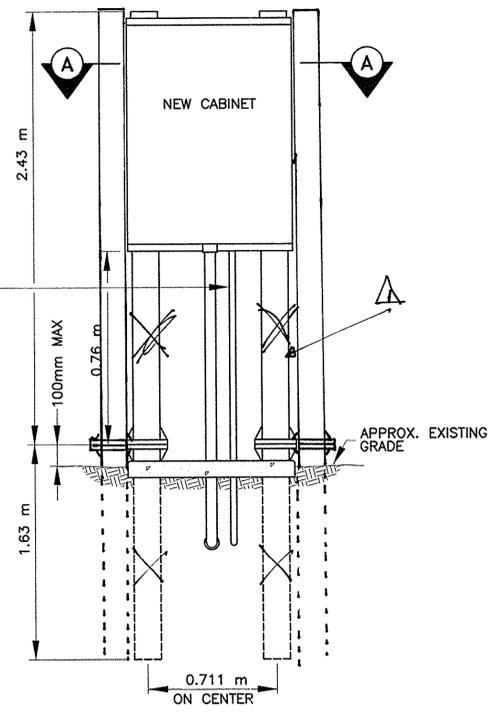
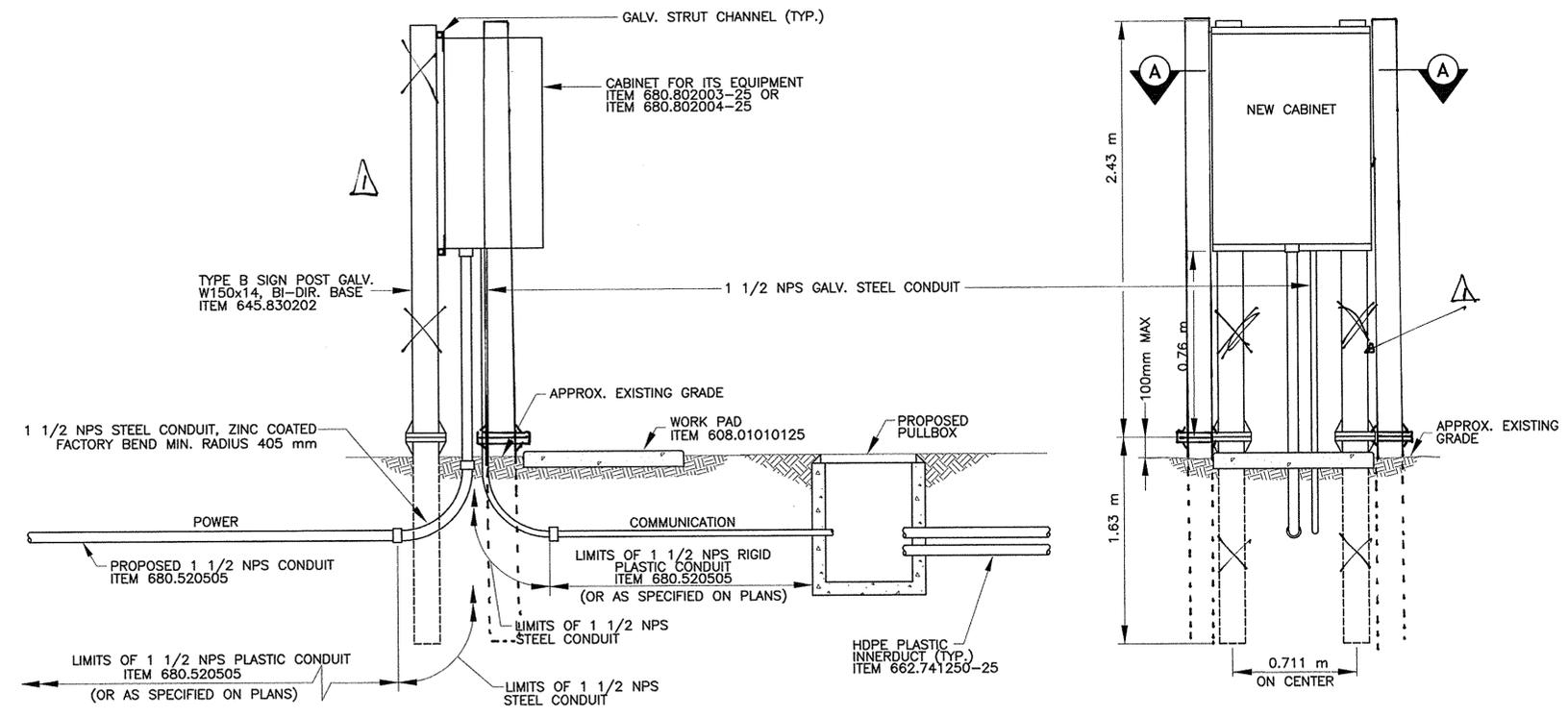


SECTION A-A
 NOT TO SCALE

NOTE: *No As Built Revisions*
 ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

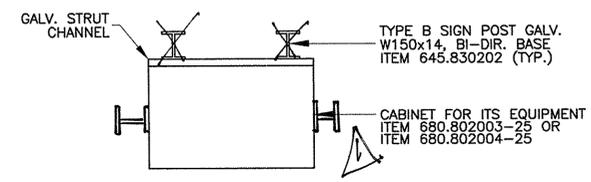
DATE	DESCRIPTION	BY	SYL
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING UTILITY SERVICE DETAILS			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: MD-8		 	

IN CHARGE OF: J. JOHNS
 DESIGNED BY: J. JOHNS
 M. CONLEY
 DRAFTED BY: P. BALASCO
 CHECKED BY: J. JOHNS
 PLOTTED BY: pbalasco
 Date: 9/29/2008
 Project: NY Highway Design
 Node: BALASCO-SP1
 Discipline: NYSDOT
 Project: NY Highway Design
 Node: BALASCO-SP1



FRONT ELEVATION

- NOTES:
1. ALL OF THE ABOVE WORK, UNLESS OTHERWISE NOTED, TO BE PAID FOR UNDER ITEM 680.802003-25 OR ITEM 680.802004-25.
 2. HARDWARE TO ATTACH STRUT CHANNEL TO POSTS AND CABINETS TO STRUT CHANNEL SHALL BE 10 mm DIA., GALVANIZED.
 3. CABINET SIZE SHALL BE 1219mm TALL x 914mm WIDE x 406mm DEEP.



SECTION A-A

NEW TYPE "B" POST MOUNTED EQUIPMENT CABINET
AND CONDUIT CONNECTION
NOT TO SCALE

NOTE: *As Built Revisions*
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	S.M.
9/29/10	mounting Post location	R. Adams	
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVE., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING UTILITY SERVICE DETAILS			
 		CONTRACT NUMBER: TAS 08-321	
		DATE: JULY 30, 2008	
		DRAWING NUMBER: MD-9	

LIST OF APPROVED SEGMENTAL BLOCK RETAINING WALL SYSTEMS		
MANUFACTURER	LOCATION	TYPE
DUKE CONC. PRODUCTS	QUEENSBURG, NY	CLASSIC 8
NOVA STONE INC.	CAMBRIDGE, ON	WALLSTONE GRANDE
UNILOCK INC.	GORMLEY, ON	SIENA STONE 925

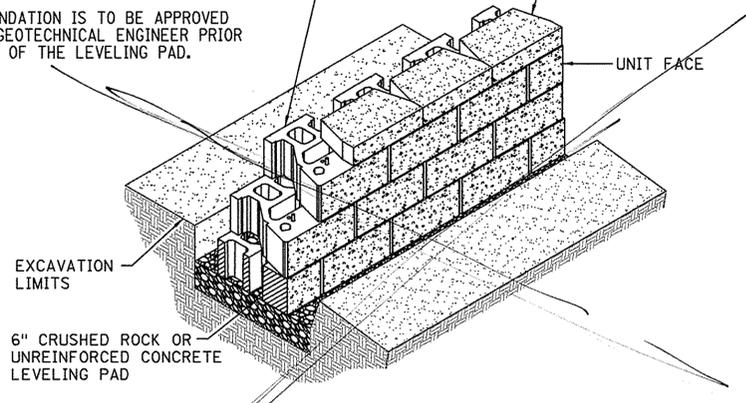
NOTES:

1. DEPENDING ON ACTUAL WALL HEIGHT, MANUFACTURER AND SOIL CONDITIONS, ADDITIONAL GEOGRID REINFORCEMENT MAY BE REQUIRED PER MANUFACTURERS RECOMMENDATIONS.
2. ALL EXCAVATION AND CRUSHED STONE REQUIRED FOR INSTALLING SEGMENTAL BLOCK RETAINING WALL SHALL BE INCLUDED IN PRICE BID ITEM 632.15-17.
3. ALL UNDERDRAIN PIPE AND FILTER MATERIAL REQUIRED FOR INSTALLING SEGMENTAL BLOCK RETAINING WALL SHALL BE INCLUDED IN PRICE BID FOR ITEM 632.15-17

BASE LEVELING PAD NOTES:

1. THE LEVELING PAD IS TO BE CONSTRUCTED OF CRUSHED STONE OR 2000 PSI± UNREINFORCED CONCRETE.
2. THE BASE FOUNDATION IS TO BE APPROVED BY THE SITE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF THE LEVELING PAD.

STANDARD UNIT*	CAP UNIT*
WIDTH: 18" DEPTH: 18" HEIGHT: 8" WEIGHT: 108 LBS	WIDTH: 18" DEPTH: 10 1/2" HEIGHT: 4" WEIGHT: 50 LBS

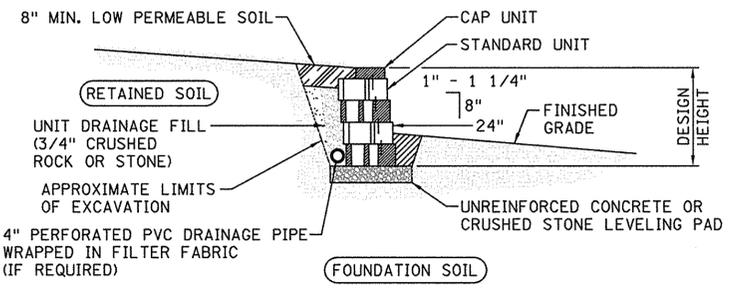


STANDARD UNIT BASE PAD ISOMETRIC SECTION VIEW
*DIMENSIONS & WEIGHT MAY VARY BY MANUFACTURER

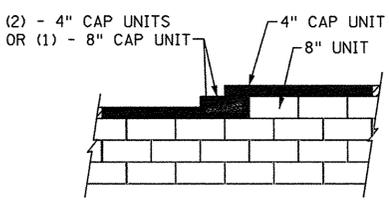
LOCATION OF WALLS IN THIS PROJECT		
SITE	MP	TYPE
C-10 & TX-7	I-90 MP 276.58 EB	SEE DETAIL A

NOTES:

1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND WALL PROFILES FOR EVERY WALL LOCATION.

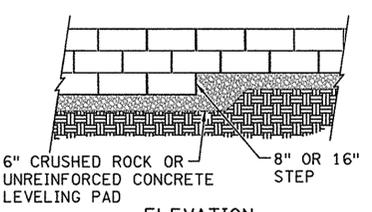


TYPICAL GRAVITY WALL SECTION
STANDARD UNIT - 1" SETBACK



- NOTES:**
1. SECURE ALL CAP UNITS ACCORDING TO MANUFACTURERS RECOMMENDATIONS.

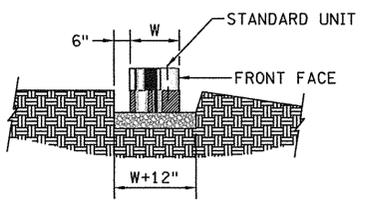
TOP OF WALL STEPS



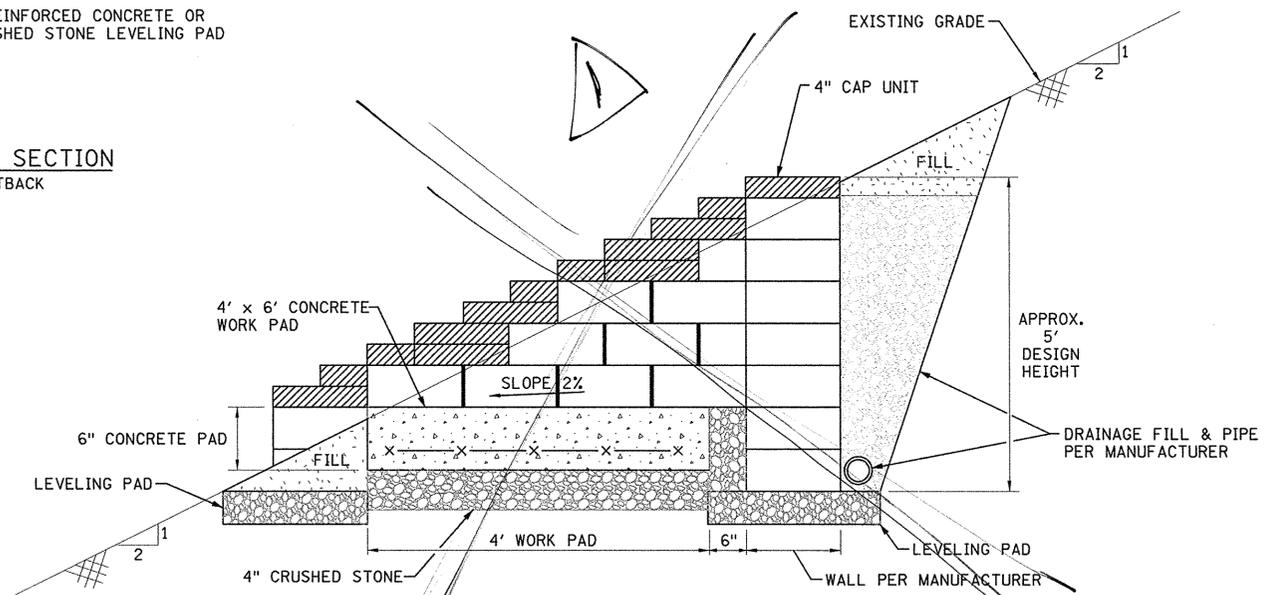
ELEVATION

NOTES:

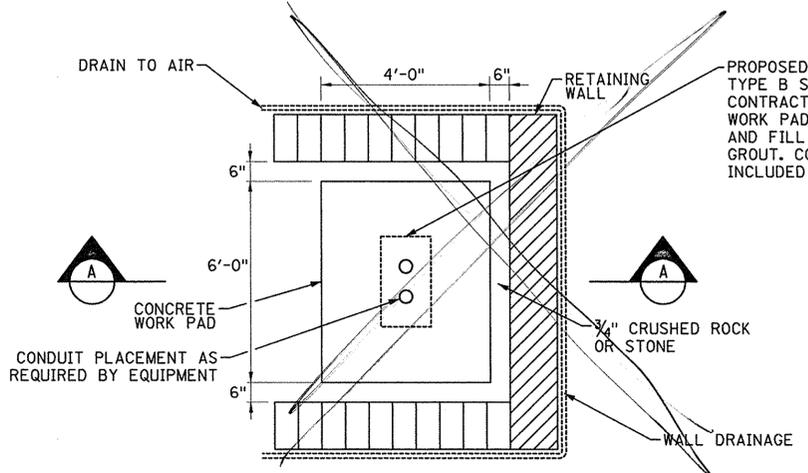
1. THE LEVELING PAD IS TO BE CONSTRUCTED OF CRUSHED STONE OR 2000 PSI± UNREINFORCED CONCRETE.



LEVELING PAD DETAIL



TYPICAL SECTION OF WALL IN CUT SECTION A-A
N.T.S.



SEGMENTAL BLOCK RETAINING WALL SYSTEM CUT CONDITION
N.T.S.

PROPOSED EQUIPMENT TO BE MOUNTED ON TYPE B SIGN POSTS, ITEM 645.830202. CONTRACTOR SHALL CORE DRILL CONCRETE WORK PADS, INSTALL TYPE B SIGN POSTS, AND FILL VOID WITH AN EPOXY NON-SHRINK GROUT. COST FOR THIS WORK SHALL BE INCLUDED IN PRICE BID FOR ITEM 645.830202

NOTE: *As Built Revisions*
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

6/30/10 Retaining wall eliminated

DATE	DESCRIPTION	BY	SY#

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
INSTALLATION OF ITS DEVICES
I-90 VAR. LOC. SYRACUSE DIV.
LOCATION OF PROJECT
VARIOUS SITES IN SYRACUSE DIV.

TITLE OF DRAWING
SEGMENTAL CONCRETE RETAINING WALL SYSTEM

CONTRACT NUMBER: TAS 08-321
DATE: JULY 30, 2008
DRAWING NUMBER: MD-11

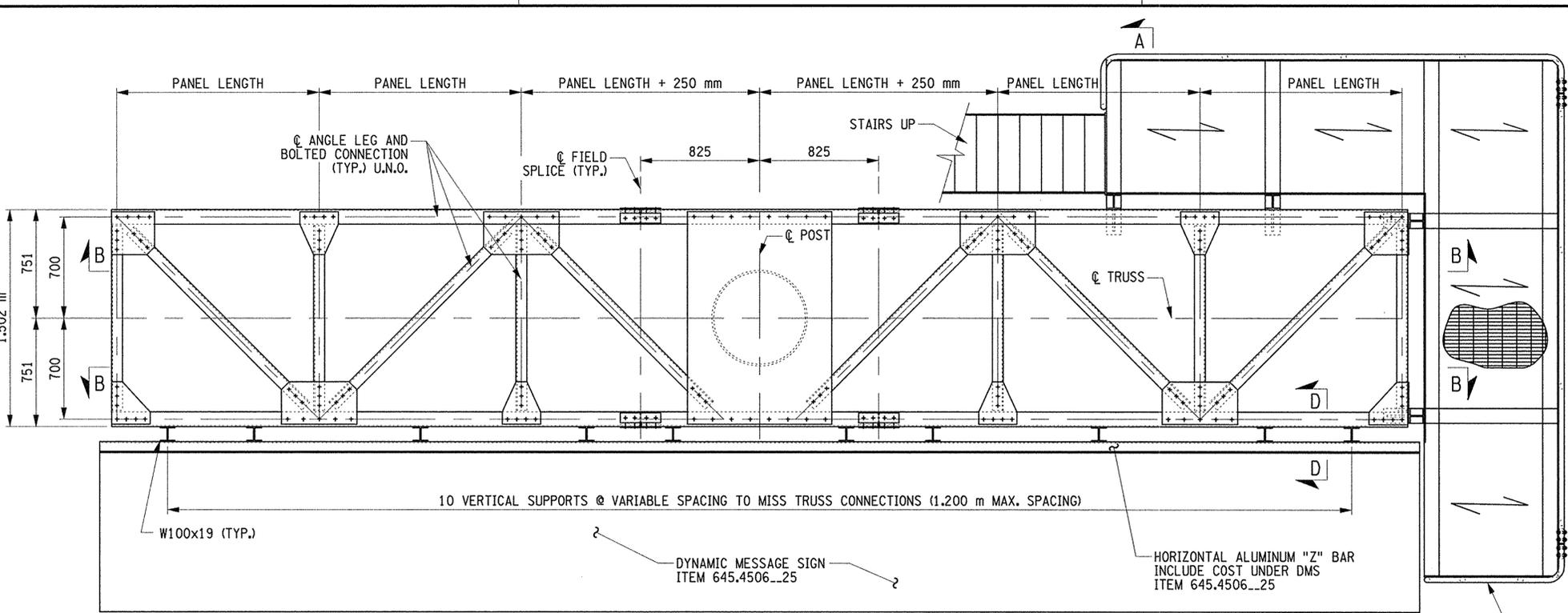


File: J. JOHNS
 Checked By: J. JOHNS
 Drafted By: P. BALASCO
 Designed By: M. CONLEY
 In Charge Of: J. JOHNS
 Discipline: NYSDOT
 Project: BALASCO-SPT
 Model: 9/29/2008
 Plotted By: pbalasco
 Design File: 259118.plt
 Date: 9/29/2008

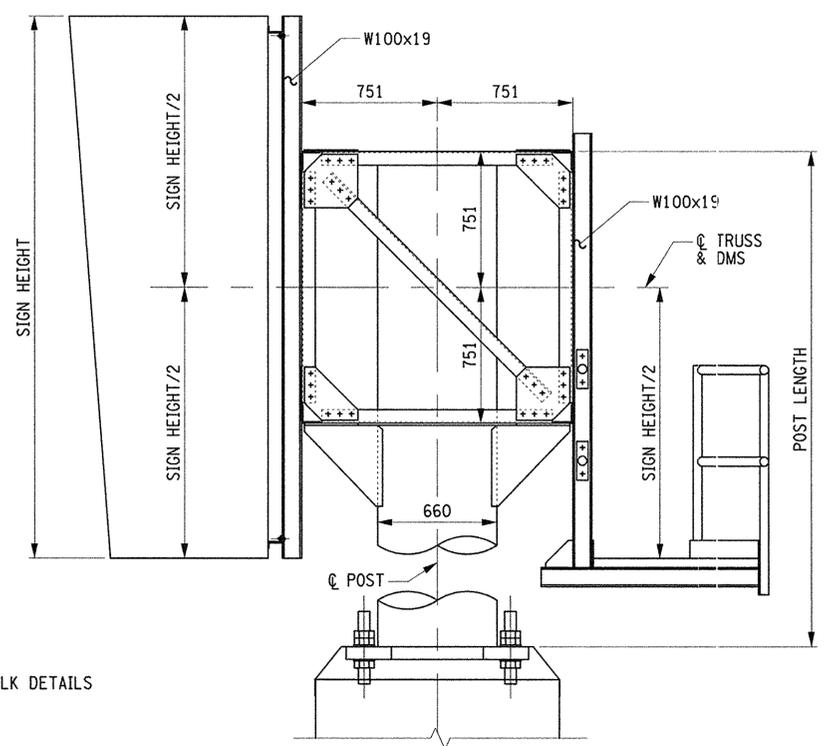
Discipline: NYS DOT
 Project: NY Highway Design
 Model: BALASCDP-SPI

Plotted By: pboasco
 Design File: 9/29/2008
 Plot Date: 9/29/2008

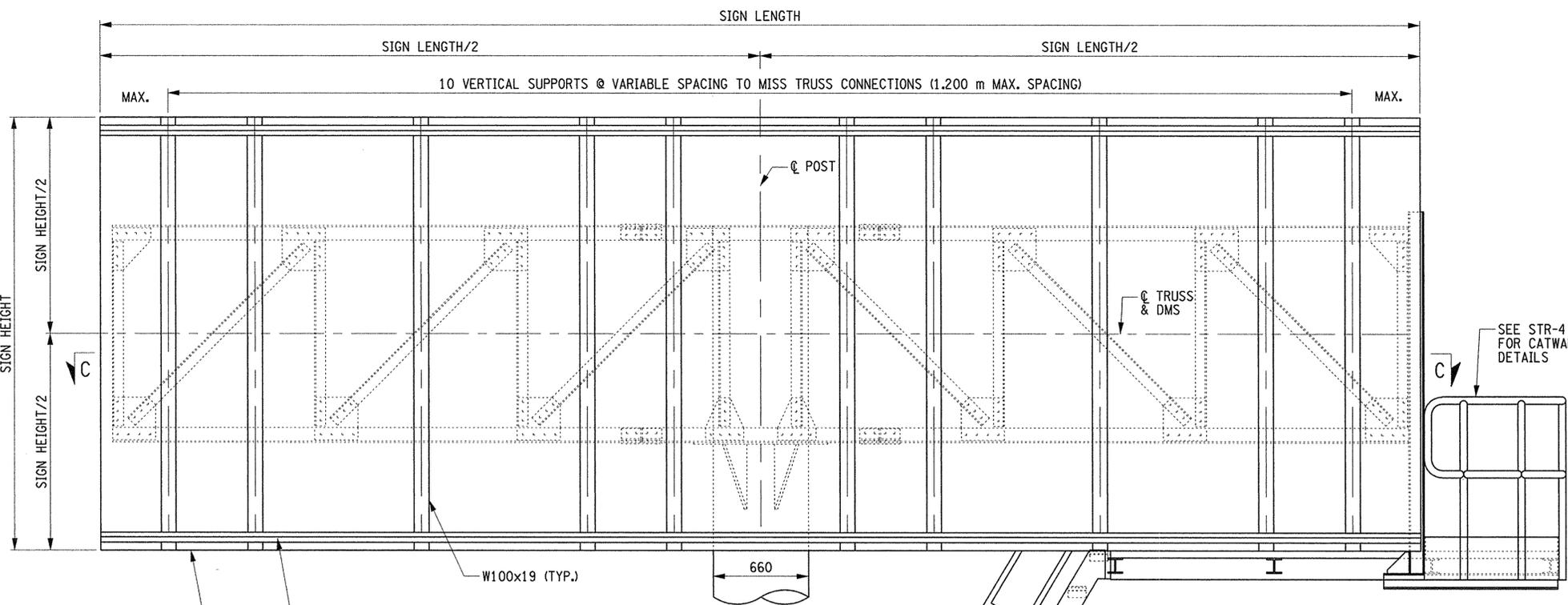
DESIGNED BY: [Redacted]
 DRAFTED BY: [Redacted]
 CHECKED BY: [Redacted]
 IN CHARGE OF: [Redacted]



PLAN VIEW
1:20



SECTION A-A
1:20



FRONT ELEVATION
1:20

NOTES:

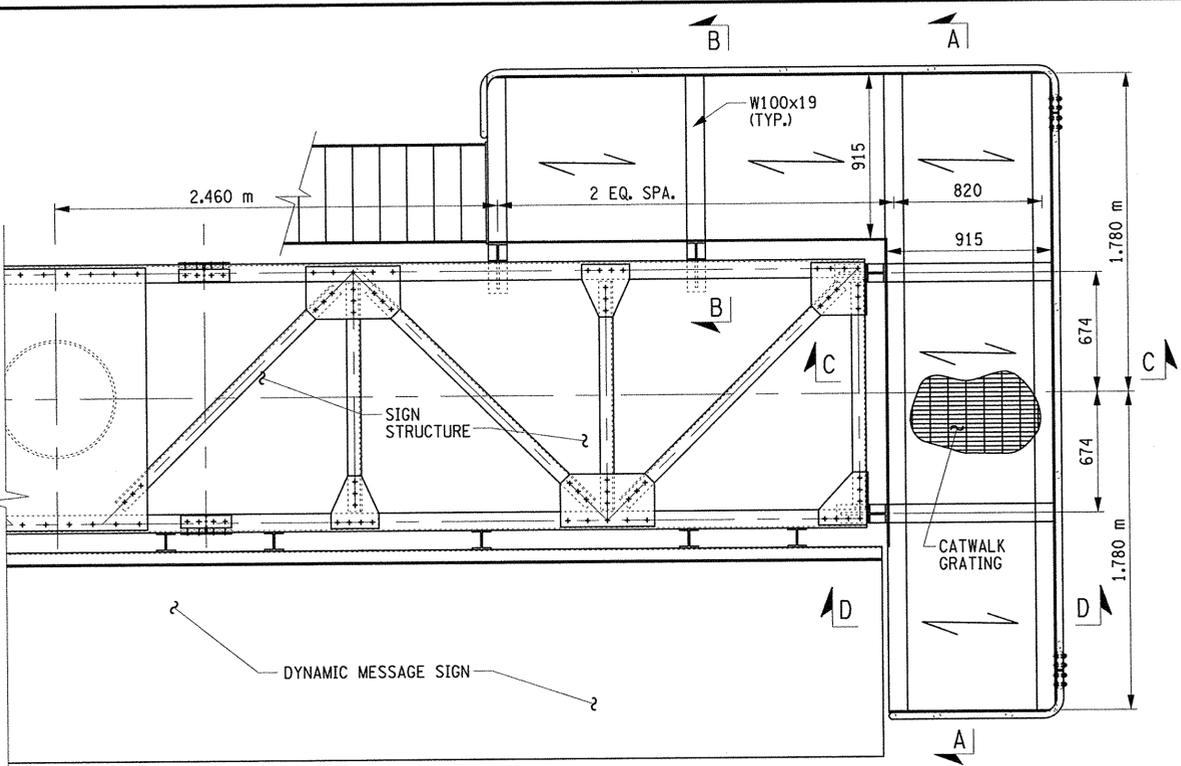
1. THESE STRUCTURES ARE DESIGNED IN ACCORDANCE WITH NYS DOT STANDARD DESIGN SPECIFICATIONS FOR OVERHEAD SIGN STRUCTURES. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 644. STEEL FABRICATION SHALL BE IN ACCORDANCE WITH NYS STEEL CONSTRUCTION MANUAL.
2. FOR SECTIONS SEE STR-2.
3. FOR FOUNDATION DETAILS, SEE STR-9.
4. FOR BASE PLATE AND ANCHOR BOLT DETAILS, SEE STR-11.
5. THE SIGN STRUCTURE HEIGHT IS DESIGNED TO PROVIDE THE MINIMUM VERTICAL CLEARANCE (VCL) AT THE EDGE OF SHOULDER AS INDICATED BETWEEN THE SIGN PANEL AND ROADWAY SURFACE.
6. THE CONTRACTOR SHALL ESTABLISH THE TOP OF SHAFT ELEVATION BASED ON THE INFORMATION SHOWN ON THE CONTRACT PLANS AND DATA DERIVED FROM FIELD SURVEYS. DIMENSIONS SHALL BE FIELD-VERIFIED PRIOR TO PLACEMENT OF THE FOUNDATIONS OR FABRICATION OF THE SIGN STRUCTURES AND ELEVATIONS AND DIMENSIONS SHALL BE PRESENTED ON THE SHOP DRAWINGS. IF FIELD-VERIFIED DIMENSIONS DIFFER FROM THOSE SHOWN ON THE CONTRACT PLANS, THE ENGINEER SHALL BE CONSULTED TO DETERMINE WHETHER DESIGN CHANGES ARE NEEDED.

No As Built Revisions
 NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

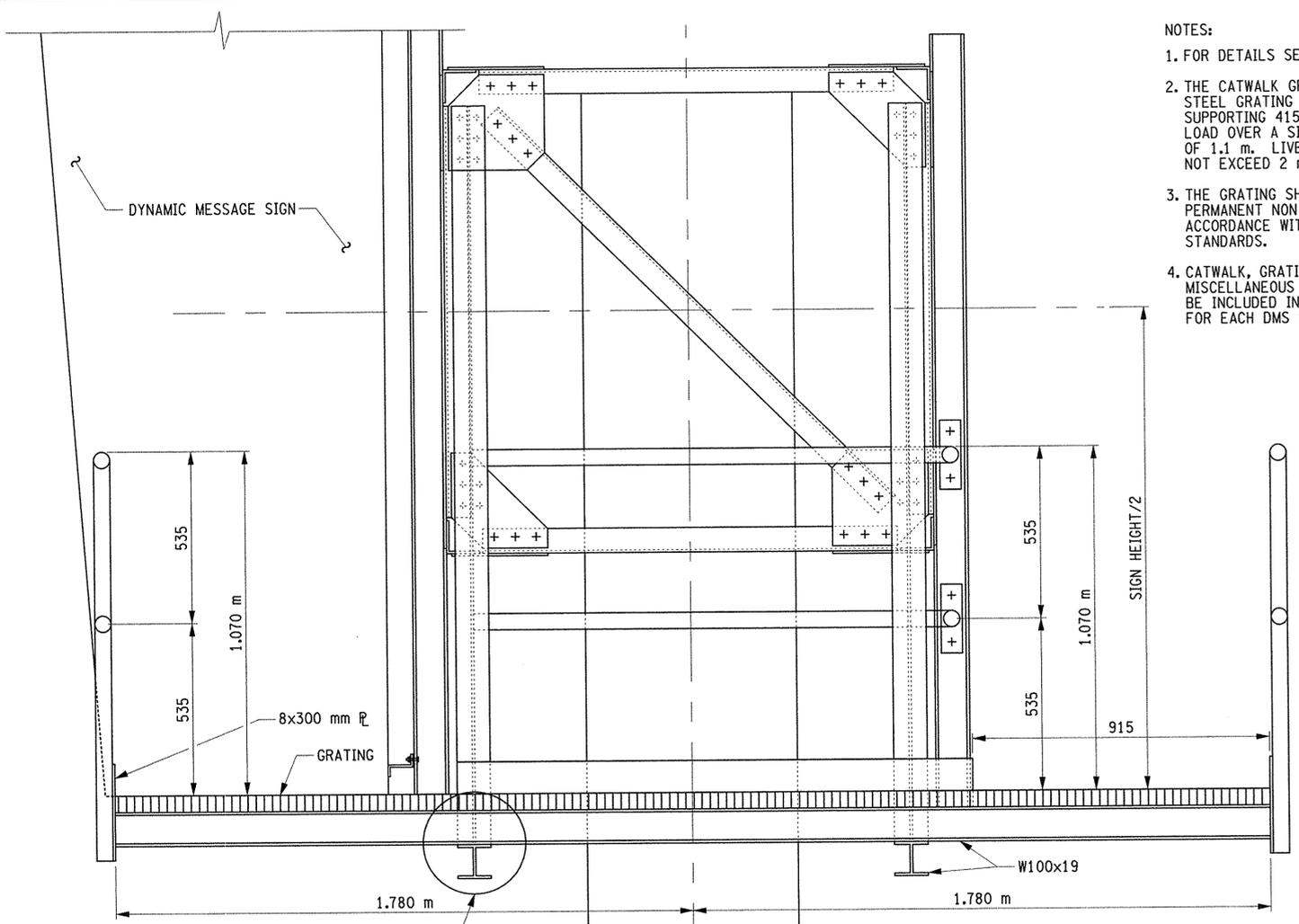
DATE	DESCRIPTION	BY	SYL
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT DEPLOYMENT OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING T-STRUCTURE PLAN AND ELEVATION			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: STR-1			

ITEM NO.	SIGN MANUFACTURE	SIGN LENGTH (m)	SIGN HEIGHT (m)	SIGN DEPTH (m)	TRUSS LENGTH (m)	PANEL LENGTH (m)	POST LENGTH	
							LOC. NO. D-5 (m)	LOC. NO. D-6 (m)
644.4403	SKYLINE PRODUCTS	9.350	2.600	1.150	9.100	1.433	8.122	8.003
	LEDSTAR INC.	9.140	3.000	1.100	8.890	1.398	8.322	8.203
	DAKTRONICS INC.	7.600	2.400	1.200	7.350	1.142	8.022	7.903

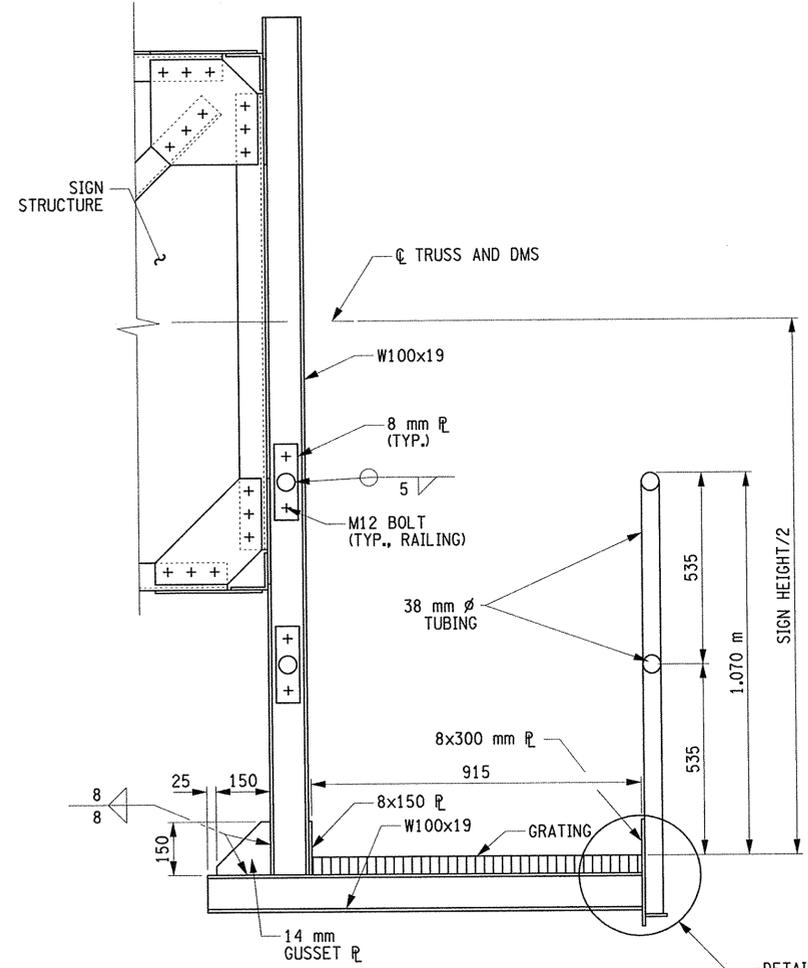
- NOTES:
1. FOR DETAILS SEE STR-6.
 2. THE CATWALK GRATING SHALL BE STEEL GRATING CAPABLE OF SUPPORTING 415 kg/m² VERTICAL LIVE LOAD OVER A SIMPLY SUPPORTED SPAN OF 1.1 m. LIVELOAD DEFLECTION SHALL NOT EXCEED 2 mm.
 3. THE GRATING SHALL HAVE A PERMANENT NON SLIP SURFACE IN ACCORDANCE WITH CURRENT OSHA STANDARDS.
 4. CATWALK, GRATING, HARDWARE AND MISCELLANEOUS APPURTENANCES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EACH DMS SIGN STRUCTURE.



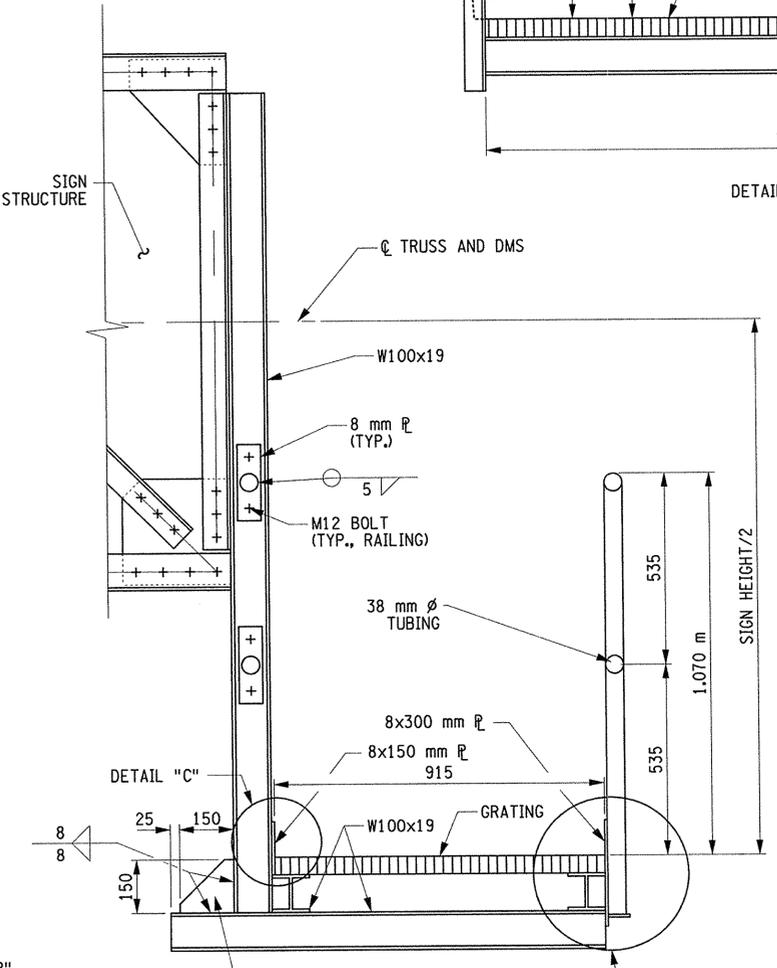
PLAN AT CATWALK
1:20



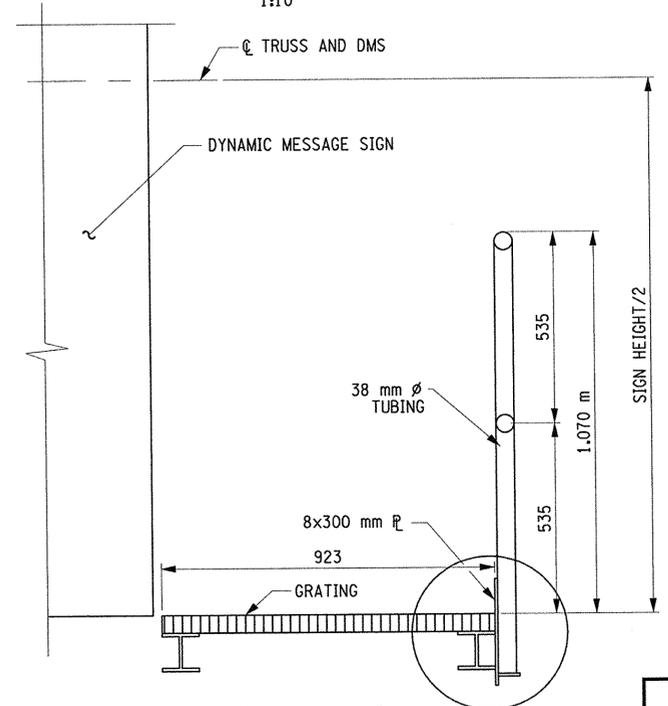
SECTION A-A
1:10



SECTION B-B
1:10



SECTION C-C
1:10



SECTION D-D
1:10

No As Built Revisions

NOTE:
ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYM.
REVISIONS			

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVE., ALBANY, N.Y. 12209

TITLE OF PROJECT
DEPLOYMENT OF ITS DEVICES
I-90 VAR. LOC. SYRACUSE DIV.

LOCATION OF PROJECT
SYRACUSE DIVISION

TITLE OF DRAWING
T-STRUCTURE CATWALK
PLAN AND SECTIONS

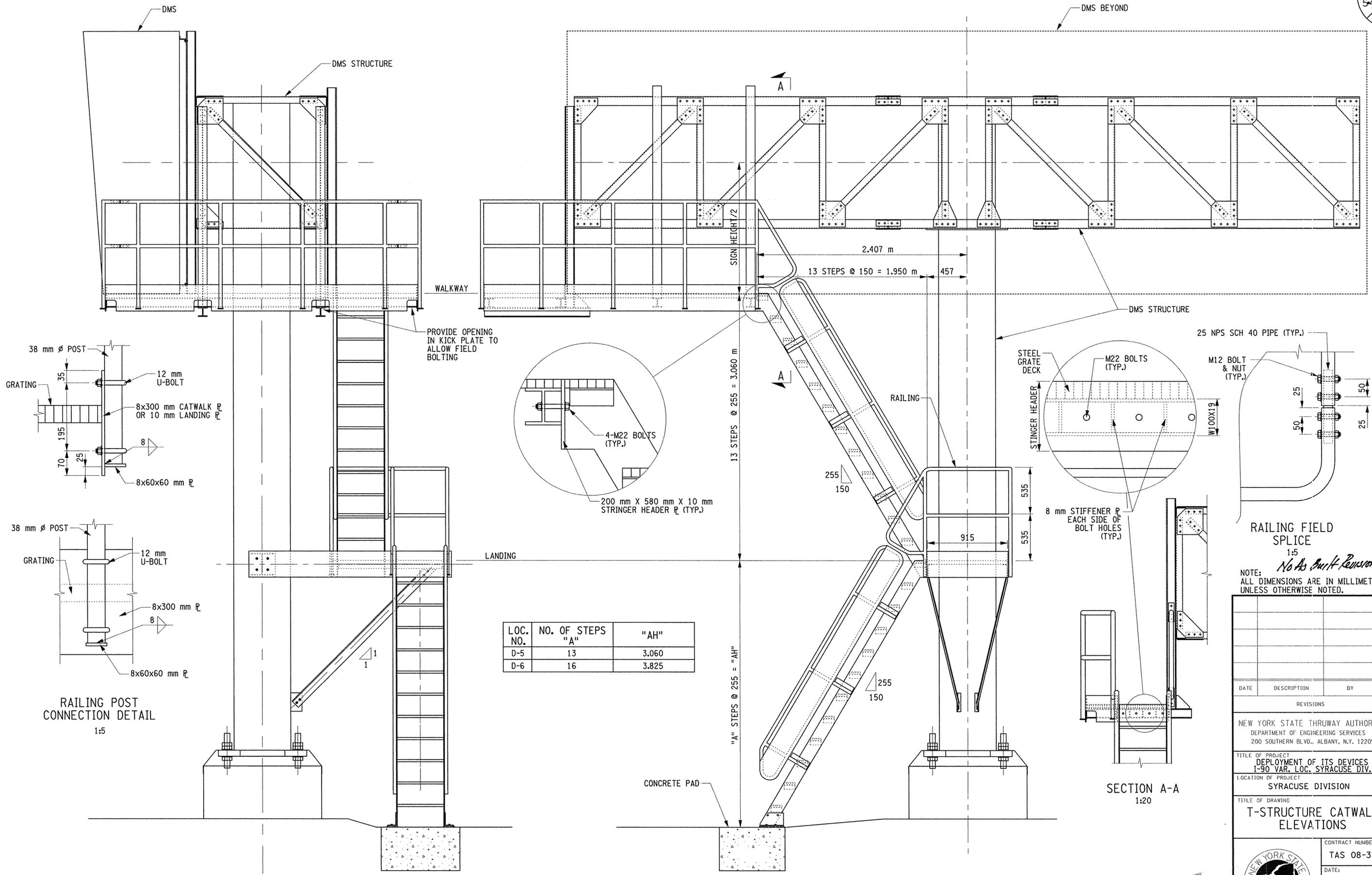
CONTRACT NUMBER:
TAS 08-321
DATE:
JULY 30, 2008
DRAWING NUMBER:
STR-4



PLOTTED BY: pholoso
 Design File: 9/27/2008
 Project: NY-Highway_Design
 Node: BALASCP-SPI
 DRAFTED BY:
 DESIGNED BY:
 IN CHARGE OF:

Plotted By: padasco User: 192500138@tronspcrationsdesign.com Date: 9/29/2008 2:59:31 PM
 Discipline: NYSDOT Project: NY_Highway_Design Model: BALASCP-SF1
 DRAFTED BY: DESIGNED BY: IN CHARGE OF:

54
60



LOC. NO.	NO. OF STEPS "A"	"AH"
D-5	13	3.060
D-6	16	3.825

RAILING FIELD SPLICE
1:5
No As Built Revisions
NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYSL
REVISIONS			

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
DEPLOYMENT OF ITS DEVICES
I-90 VAR. LOC. SYRACUSE DIV.
LOCATION OF PROJECT
SYRACUSE DIVISION

TITLE OF DRAWING
T-STRUCTURE CATWALK
ELEVATIONS

CONTRACT NUMBER:
TAS 08-321
DATE:
JULY 30, 2008
DRAWING NUMBER:
STR-5



SIDE ELEVATION
1:20

REAR ELEVATION
1:20

SECTION A-A
1:20

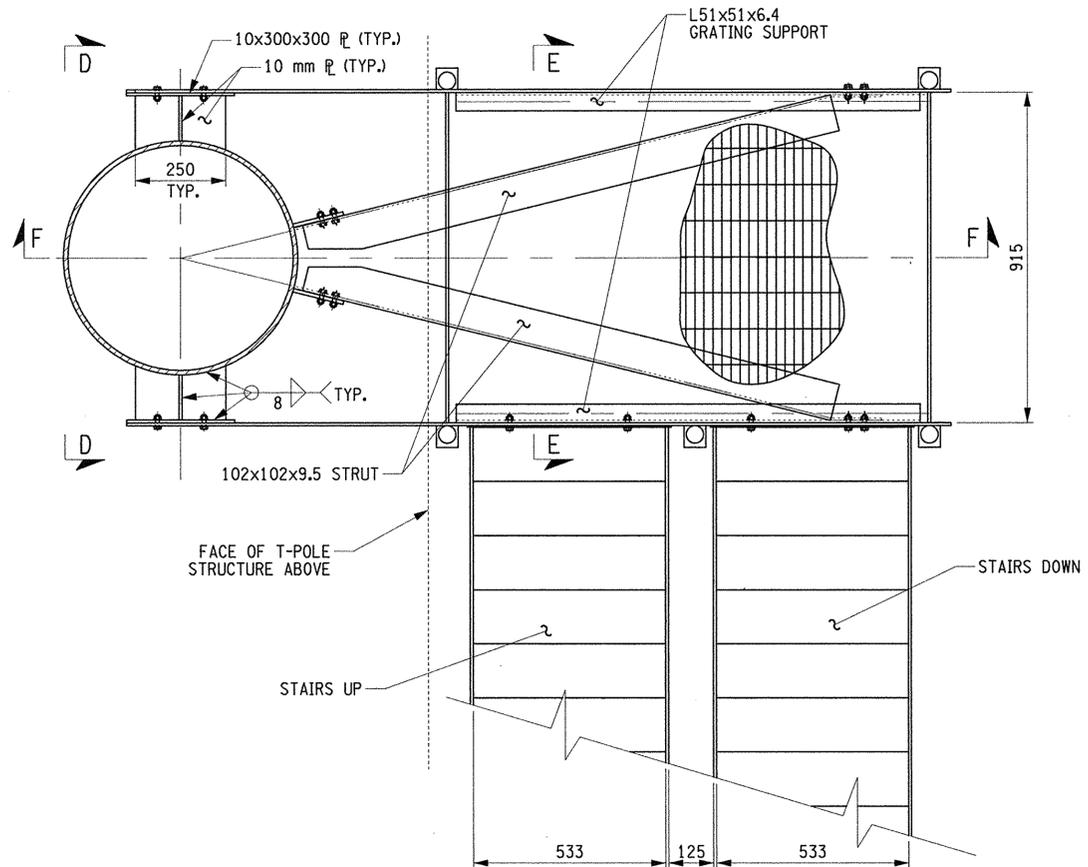
RAILING POST
CONNECTION DETAIL
1:5

RAILING FIELD
SPLICE
1:5

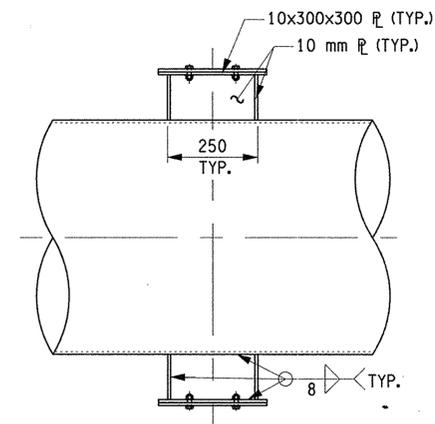
Discipline: NYSDOT
 Project: NY Highway Design
 Node: BALASCOP-SP1

Discipline: NYSDOT
 Project: NY Highway Design
 Node: BALASCOP-SP1

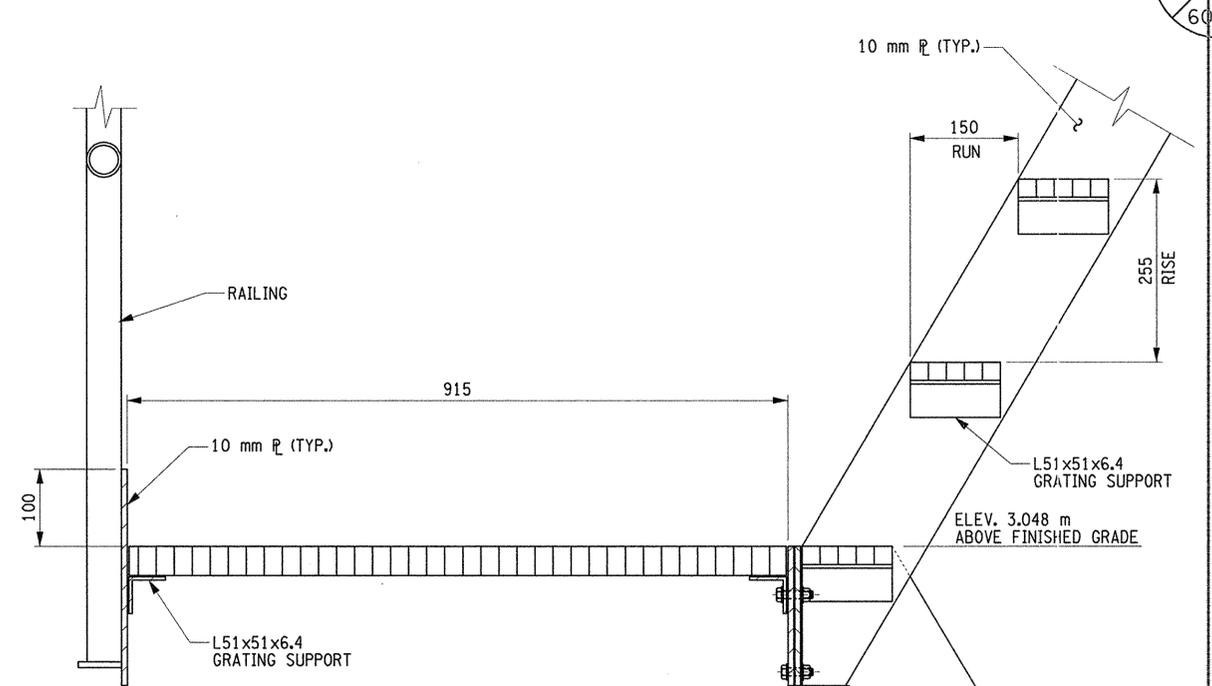
DESIGNED BY: _____
 DRAFTED BY: _____
 CHECKED BY: _____
 IN CHARGE OF: _____



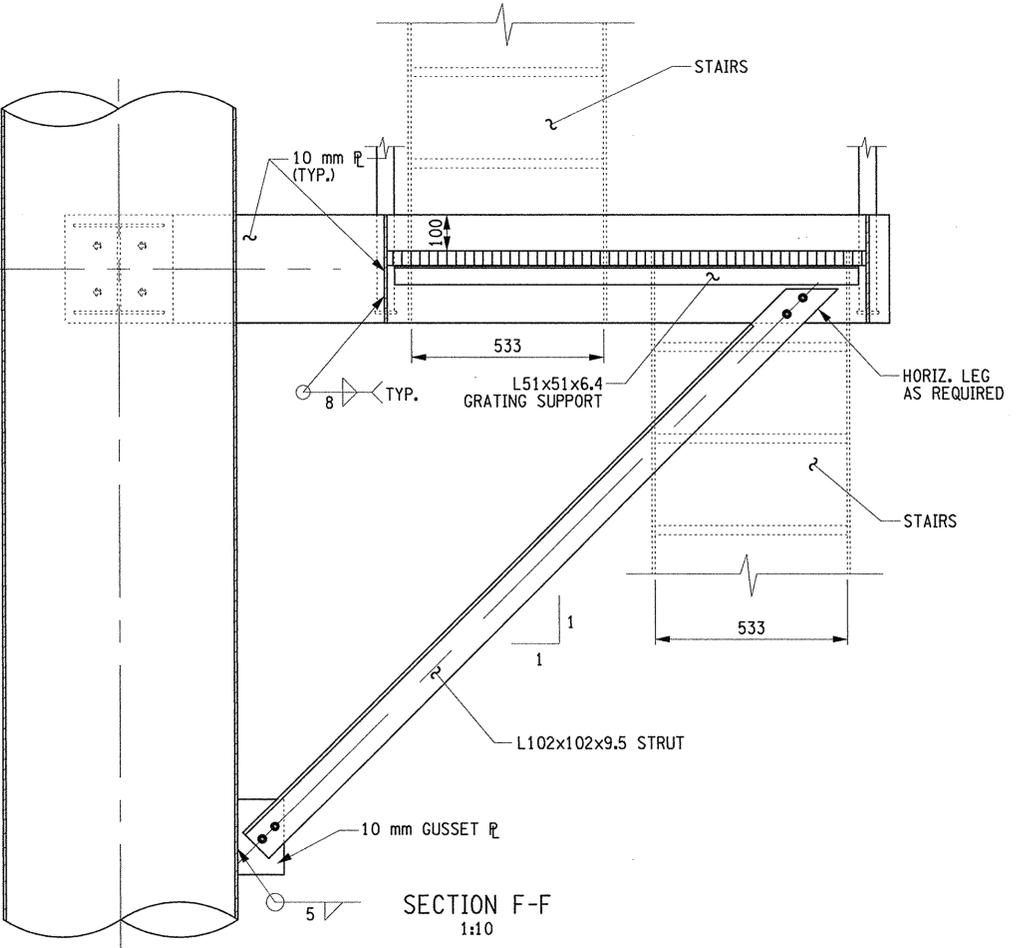
PLAN AT LANDING
1:10



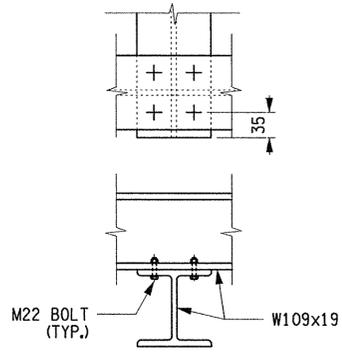
SECTION D-D
1:20



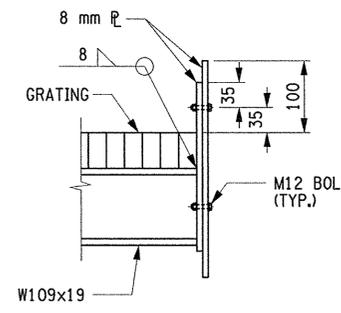
SECTION E-E
1:5



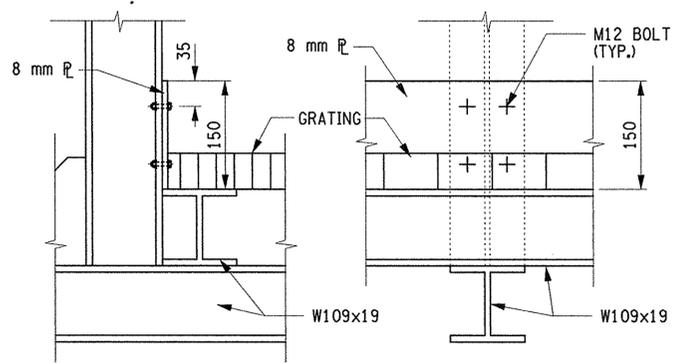
SECTION F-F
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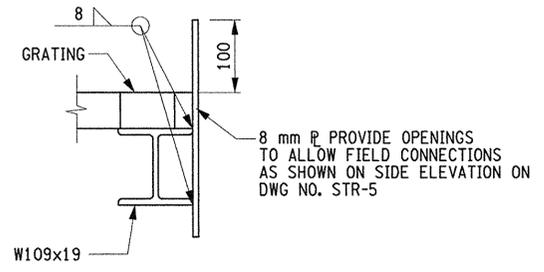
DETAIL "A"
1:5



DETAIL "B"
1:5



DETAIL "C"
1:5



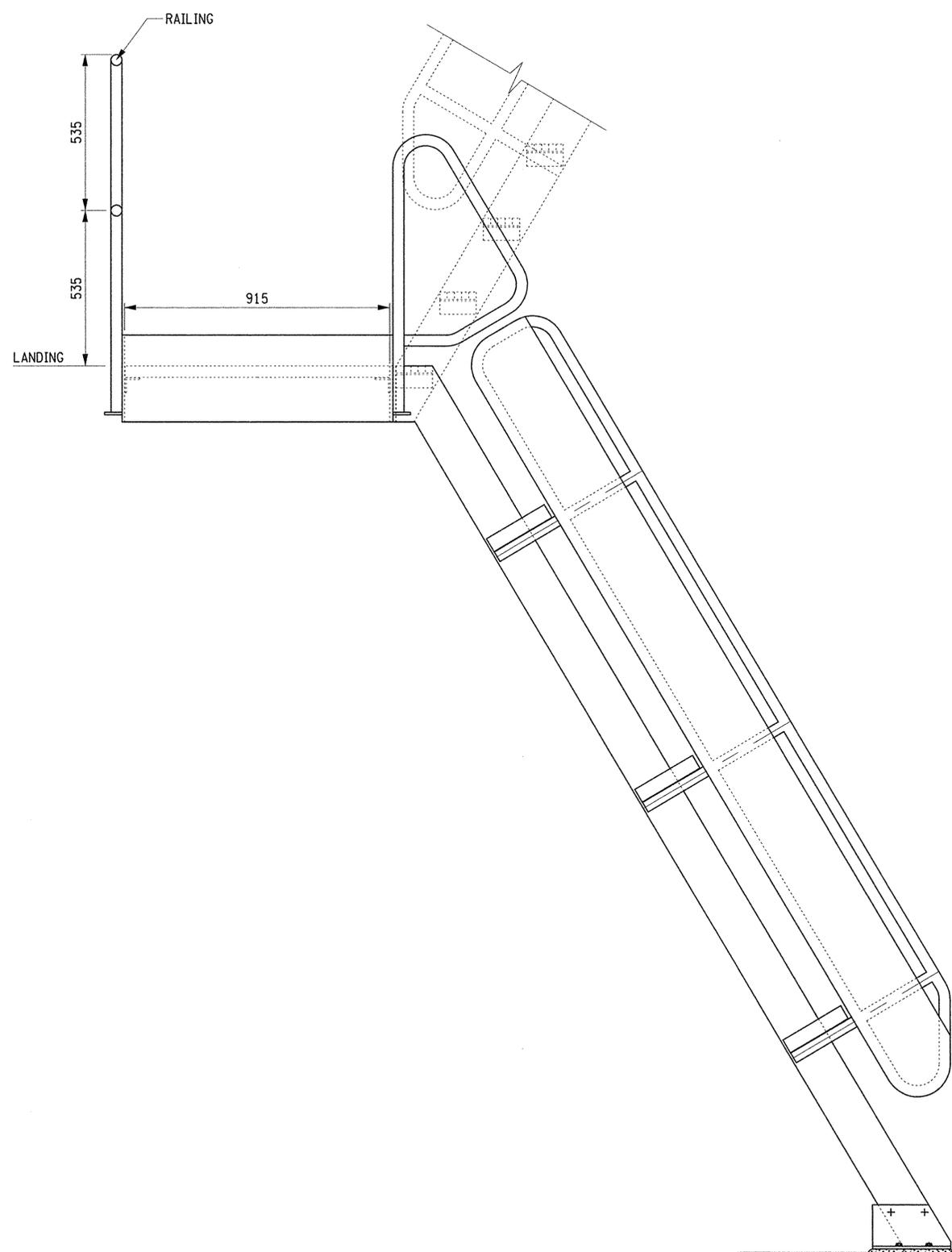
DETAIL "D"
1:5

No As Built Revisions
 NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

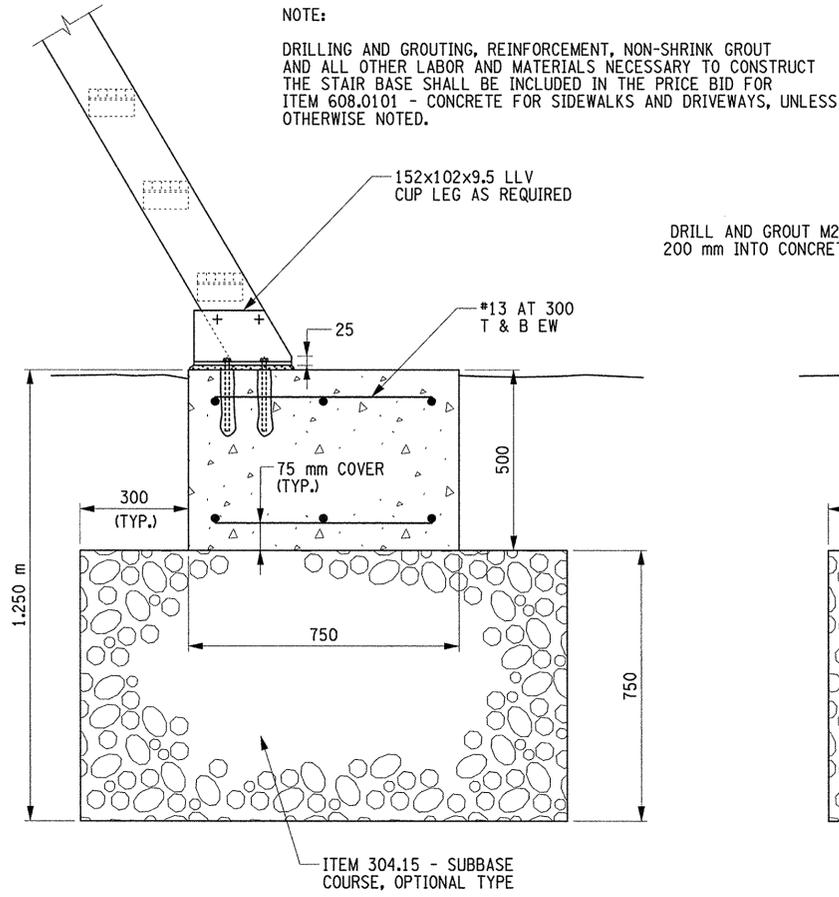
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT DEPLOYMENT OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING T-STRUCTURE CATWALK DETAILS			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: STR-6		 	

55
60

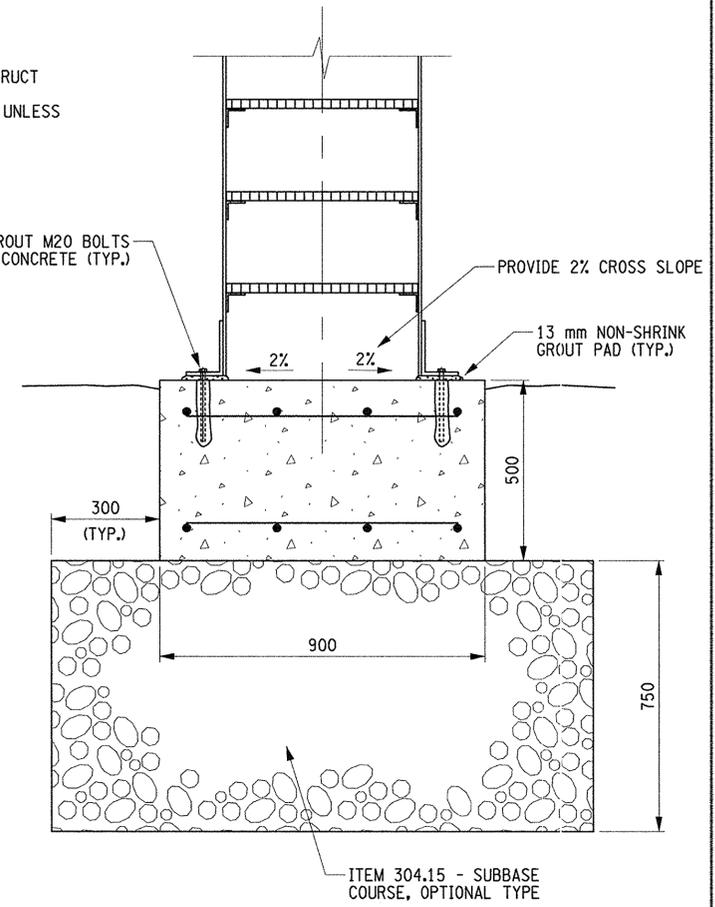
Plotted By: ddaasco
 Design File: Usf192500138#r-enspor-rations#design#NONINDACADrawing951PAD.D11 eg_mdt-MERGED.dgn
 Plot Date: 9/29/2008 2:59:36 PM
 Discipline: NYS DOT
 Project: NY Highway Design
 Model: BALASCOPE-SPI
 DRAFTED BY:
 CHECKED BY:
 DESIGNED BY:
 IN CHARGE OF:



STAIRWAY ELEVATION
1:10



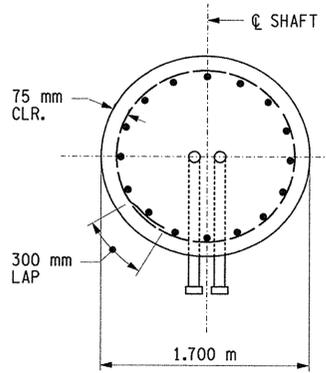
DETAIL AT STAIR BASE
1:10



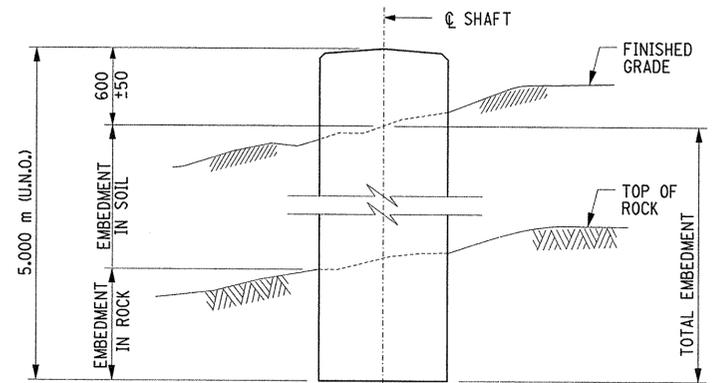
No As-Built Revisions
 NOTE:
 ALL DIMENSIONS ARE IN MILLIMETERS
 UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT DEPLOYMENT OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING T-STRUCTURE CATWALK DETAILS			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: STR-7			

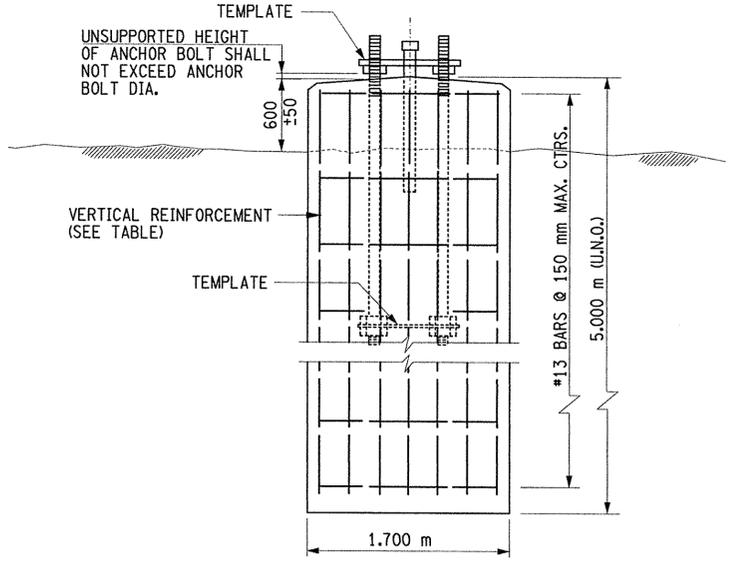




PLAN SHAFT



SHAFT IN ROCK



ELEVATION SHAFT

VERTICAL REINFORCEMENT		
PEDESTAL/ SHAFT DIA.	NO. OF BARS	SIZE
1.7 m	44	#25

FOUNDATION ITEM	
FOUNDATION TYPE (SEE NOTE 3)	ITEM NUMBER
SHAFT	644.20 M

NOTES:

- FOR DETAILS OF ANCHOR BOLTS AND TEMPLATES, SEE STR-11.
- INSTALL TWO NPS 2 STD GALVANIZED CONDUITS IN SHAFT.
- IF UNANTICIPATED SOUND ROCK IS ENCOUNTERED WITHIN ONE DIAMETER OF THE BOTTOM OF A SHAFT EXCAVATION USE THE FULL SHAFT LENGTH AS CALL OUT IN T-STRUCTURE TABLE ON THIS SHEET. IF UNANTICIPATED SOUND ROCK IS ENCOUNTERED AT HIGHER ELEVATIONS, THE TOTAL SHAFT LENGTH (HS) MAY BE DECREASED FROM THAT SHOWN, SUCH THAT THE SHAFT PENETRATES A MINIMUM OF 1 DIAMETER INTO SOUND ROCK. HOWEVER, THE TOTAL EMBEDMENT SHALL NOT BE LESS THAN 1 DIAMETER PLUS 600 mm. ALL CHANGES TO SHAFT LENGTHS MUST BE APPROVED AND AS ORDERED BY THE ENGINEER.
- ANY DRILLING OF THE ROCK FOR SHAFT FOUNDATIONS SHALL BE PERFORMED FROM THE EXISTING EARTH SURFACE THROUGH THE AUGER HOLE FORMED DURING THE DRILLING OPERATION. CASING SHALL BE REMOVED PRIOR TO PLACING OF CONCRETE.
 - FOOTING OR SHAFT IS PLACED IN SOFT CLAY OR ORGANIC DEPOSITS
 - GROUNDWATER ELEVATION IS ABOVE BOTTOM OF FOOTING OR SHAFT
 - SLOPE OF FINISHED GRADE EXCEEDS 1 ON 2
- LENGTH OF SHAFT MAY BE INCREASED AS ORDERED BY THE ENGINEER AS MUCH AS 500 mm IF NECESSARY TO REACH GOOD FOUNDATION MATERIAL.
- EXCAVATION, BACKFILL, FORMWORK, REINFORCEMENT, CONDUIT STUB-OUT AND ALL OTHER LABOR AND MATERIALS NECESSARY TO CONSTRUCT THE FOUNDATIONS SHALL BE INCLUDED IN THE PRICE BID FOR THE FOUNDATIONS CONCRETE.
- THE SHAFT FOUNDATIONS FOR THESE DMS STRUCTURES DERIVE SOME OR ALL OF THEIR CAPACITY FROM SIDE FRICTION ALONG THE LENGTH OF THE SHAFT. THE DEVELOPMENT OF SIDE FRICTION IS DEPENDANT UPON FLUID CONCRETE BEING PLACED DIRECTLY AGAINST SOIL ALONG THE LENGTH OF THE SHAFT. UNDER NO CIRCUMSTANCE SHALL TEMPORARY CASINGS BE LEFT IN PLACE. ALL TEMPORARY CASINGS SHALL BE REMOVED AS THE CONCRETE IS PLACED
- ALL REINFORCEMENT SHALL BE GALVANIZED.

NOTE: *No As Built Revisions*
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
DEPLOYMENT OF ITS DEVICES
I-90 VAR. LOC. SYRACUSE DIV.

LOCATION OF PROJECT
SYRACUSE DIVISION

TITLE OF DRAWING
T-STRUCTURE
FOUNDATION DETAILS

CONTRACT NUMBER:
TAS 08-321

DATE:
JULY 30, 2008

DRAWING NUMBER:
STR-9

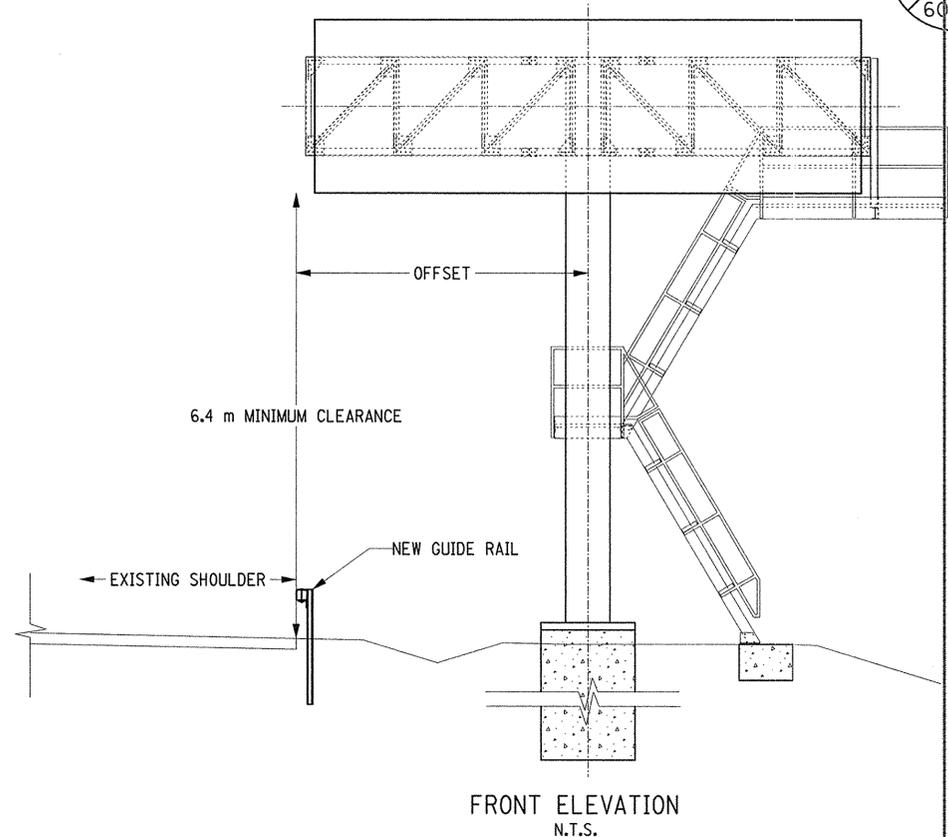
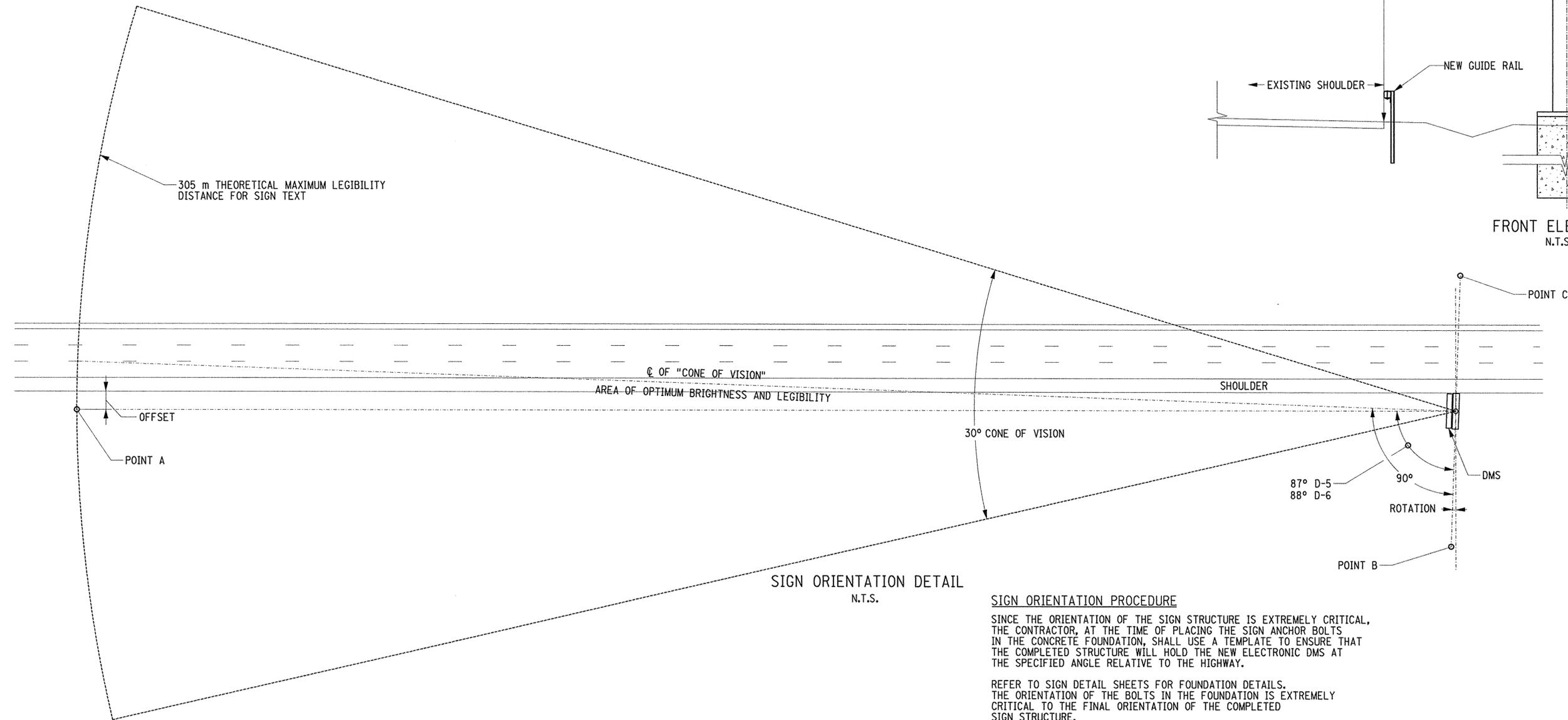


Plotted By: pcalasco
 Design File: 10116517.dwg
 Date: 9/30/2008
 Discipline: NYS DOT
 Project: NY Highway Design
 Number: BALASCP-SPI
 Checked By:
 Drafted By:
 Designed By:
 In Charge Of:

Discipline: NYS DOT
 Project: NY Highway Design
 Model: BALASCDP-SPI

Plotted By: User: 192500138#r-onepor-tationdesign@NDACADrawing\$T.MAD.D1 + c.l.mer-MERCED.dgn
 Design File: 9/29/2008 2:55:45 PM
 Plot Test

DESIGNED BY: _____ DRAFTED BY: _____ CHECKED BY: _____ IN CHARGE OF: _____



LOCATION	OFFSET (m)	ROTATION (DEGREE)
D-5	10.0	3
D-6	5.0	2

SIGN ORIENTATION PROCEDURE

SINCE THE ORIENTATION OF THE SIGN STRUCTURE IS EXTREMELY CRITICAL, THE CONTRACTOR, AT THE TIME OF PLACING THE SIGN ANCHOR BOLTS IN THE CONCRETE FOUNDATION, SHALL USE A TEMPLATE TO ENSURE THAT THE COMPLETED STRUCTURE WILL HOLD THE NEW ELECTRONIC DMS AT THE SPECIFIED ANGLE RELATIVE TO THE HIGHWAY.

REFER TO SIGN DETAIL SHEETS FOR FOUNDATION DETAILS. THE ORIENTATION OF THE BOLTS IN THE FOUNDATION IS EXTREMELY CRITICAL TO THE FINAL ORIENTATION OF THE COMPLETED SIGN STRUCTURE.

SURVEY WILL BE REQUIRED TO MAINTAIN THE NECESSARY DEGREE OF ACCURACY.

1. LOCATE POINT "A" THE "OFFSET" DISTANCE FROM THE EDGE OF SHOULDER FOR THE RESPECTIVE DMS LOCATION.
2. SET UP SURVEY INSTRUMENTS ON THE SIGN LOCATION BASED UPON INFORMATION FOUND ON DRAWINGS DMS-1 - DMS-6.
3. D-5: SIGHT POINT "A", THEN TURN 87° AND LOCATE POINT "B" AT A DISTANCE OF 30 m. D-6: SIGHT POINT "A", THEN TURN 88° AND LOCATE POINT "B" AT A DISTANCE OF 30 m.
4. SIGHT POINT "B" THEN TURN 180° TO SET POINT "C" AT A DISTANCE OF 30 m.

No As Built Revisions
 NOTE: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYPL
REVISIONS			

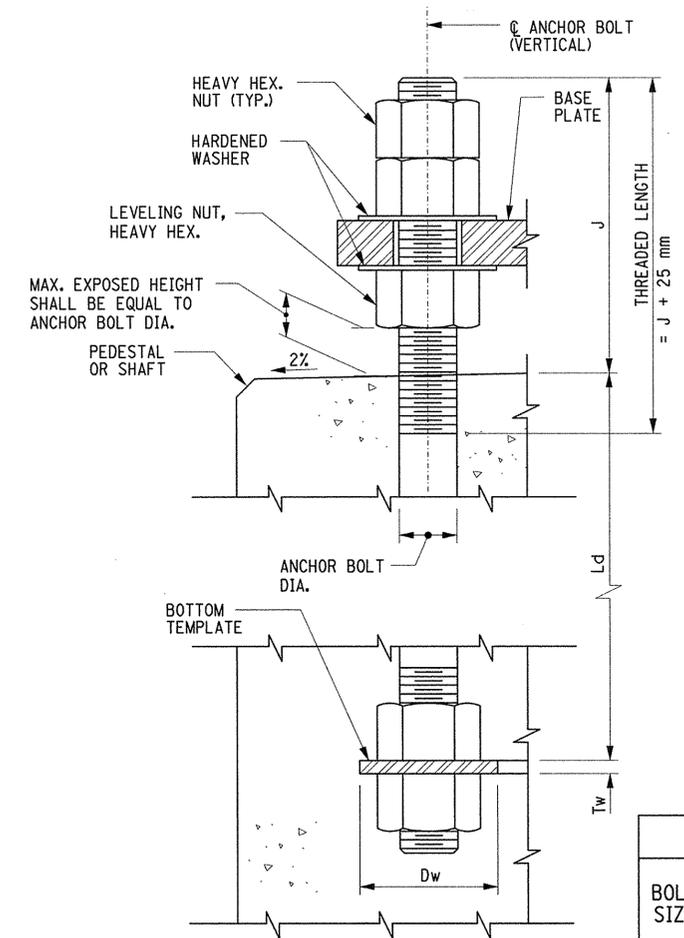
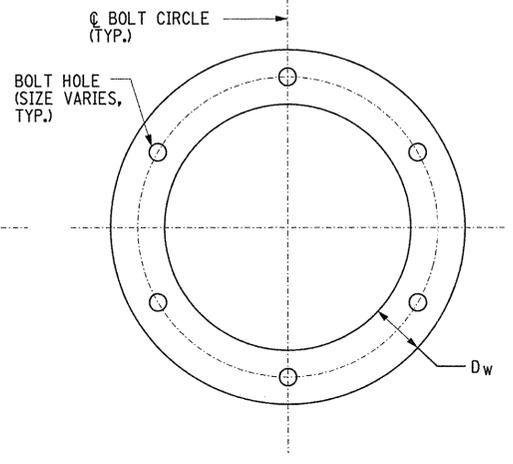
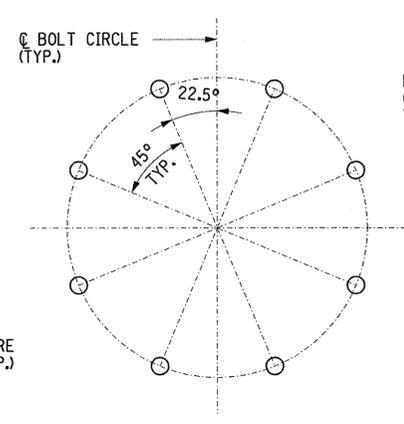
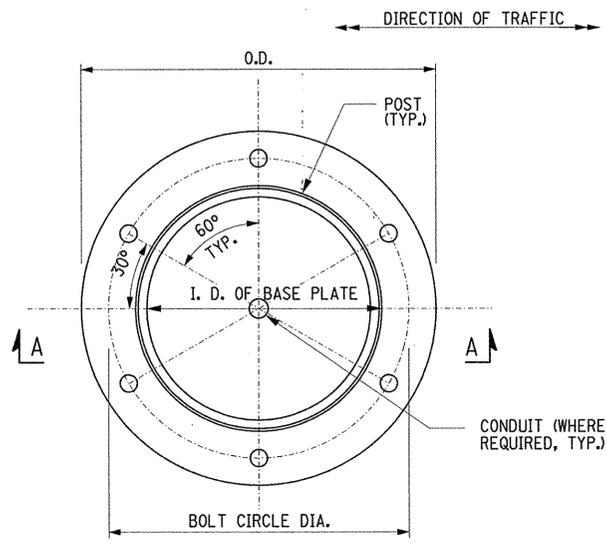
NEW YORK STATE THRUWAY AUTHORITY
 DEPARTMENT OF ENGINEERING SERVICES
 200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
 DEPLOYMENT OF ITS DEVICES
 I-90 VAR. LOC. SYRACUSE DIV.
 LOCATION OF PROJECT
 SYRACUSE DIVISION

TITLE OF DRAWING
T-STRUCTURE ORIENTATION DETAIL

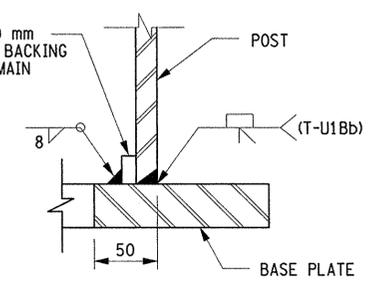
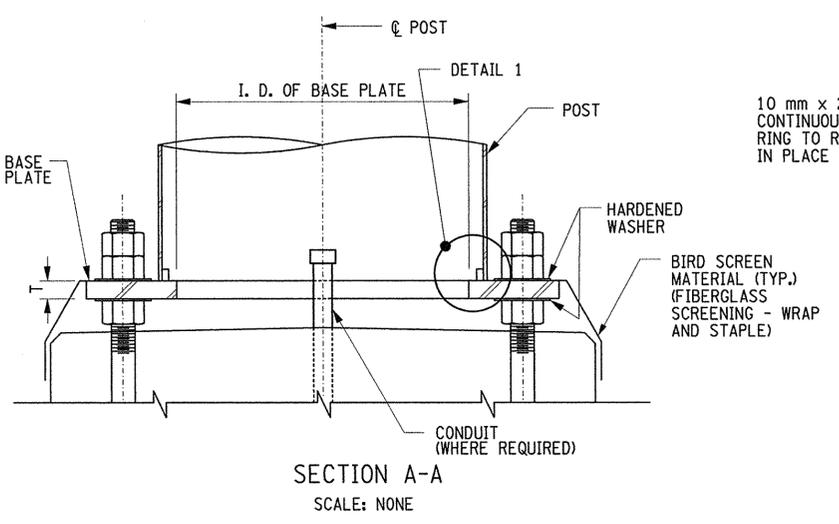
	CONTRACT NUMBER: TAS 08-321
	DATE: JULY 30, 2008
	DRAWING NUMBER: STR-10





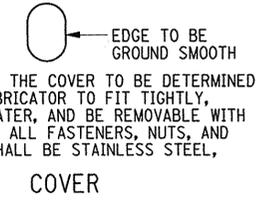
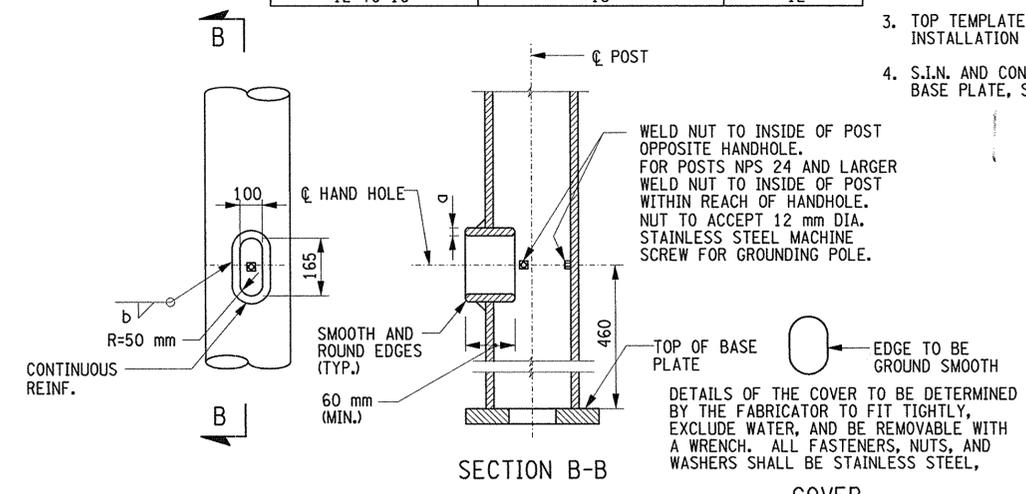
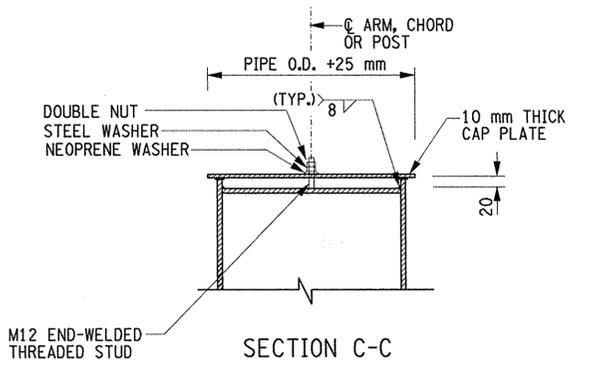
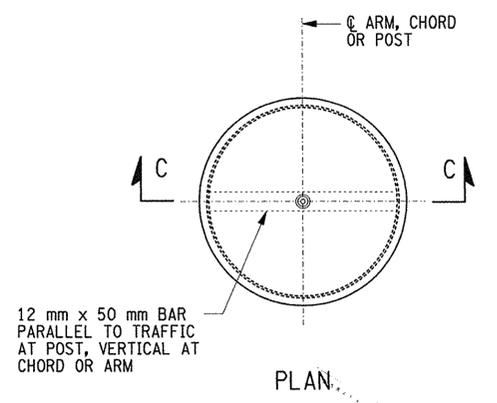
BASE PLATE TYPE	POST (NPS)	PLATE			ANCHOR BOLTS		HOLE DIA. (mm)
		O.D. (mm)	T (mm)	BOLT CIRCLE DIA. (mm)	NO.	SIZE	
BP-10	10	680	60	480	6	M36	48
BP-12	12	725	60	525	6	M42	55
BP-14	14	760	60	560	6	M42	55
BP-16	16	810	70	610	6	M48	61
BP-18	18	860	70	660	6	M56	67
BP-20	20	910	70	710	6	M56	67
BP-24	24	1010	70	810	6	M54	74
BP-26	26	1060	70	860	6	M54	74
BP-30	30	1180	70	980	6	M54	74
BP-36	36	1400	70	1200	8	M54	74

BOLT SIZE	Ld MIN. EMBD. (mm)	J EXPOSED LENGTH (mm)	TEMPLATE DATA			BOLT MASS (BOLT ONLY) (kg)
			Dw (mm)	Tw (mm)	HOLE DIA. (mm)	
M36	720	240	90	20	40	8.2
M42	840	265	102	22	46	12.9
M48	960	305	114	25	53	19.3
M56	1120	340	127	28	59	30.3
M64	1280	375	153	32	70	44.9



PIPE WALL THICKNESS (mm)	a, REINFORCEMENT THICKNESS (MIN.) (mm)	b WELD SIZE (mm)
LESS THAN 12	12	10
12 TO 16	16	12

- NOTES:
- ANCHOR BOLTS, NUTS, WASHERS AND TEMPLATES SHALL BE GALVANIZED.
 - FOR TEMPLATE REQUIREMENT, SEE SPECIFICATIONS.
 - TOP TEMPLATE SHALL BE REMOVED PRIOR TO THE INSTALLATION OF THE BASE PLATE.
 - S.I.N. AND CONTRACT NO. SHALL BE STAMPED ON BASE PLATE, SEE SPECIFICATIONS.



NOTE: *No As Built Reasons*
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYL

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
DEPLOYMENT OF ITS DEVICES
I-90 VAR. LOC. SYRACUSE DIV.
LOCATION OF PROJECT
SYRACUSE DIVISION

TITLE OF DRAWING
**T-STRUCTURE
BASE DETAILS**

CONTRACT NUMBER:
TAS 08-321
DATE:
JULY 30, 2008
DRAWING NUMBER:
STR-11



Disciplina: NYSDOT
 Project: NY Thruway Design
 Project: BALASCP-SFI
 Checked By:
 Drafted By:
 Designed By:
 In Charge Of:
 Date:
 Time: