

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.

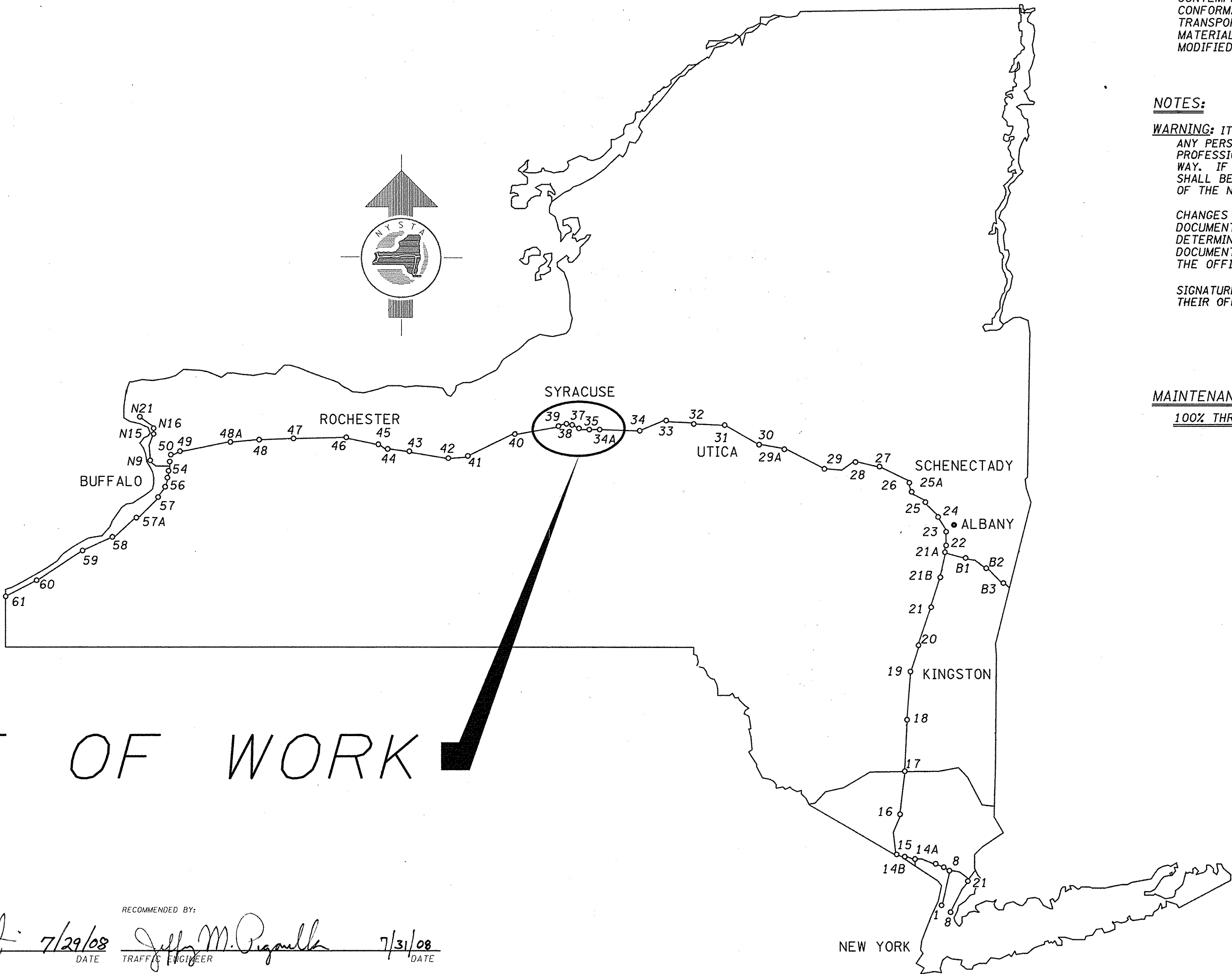
MAINTENANCE JURISDICTION
100% THRUWAY AUTHORITY

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RECORD

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

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



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. Pucella
FINAL COST TOTAL: \$2,263,099.41

FISCAL SHARE	COST(S)
1	\$ 2,267,045.61
2	\$ 1053.80

INSPECTION FIRM
CONSULTANT STAMP:



RECOMMENDED BY: [Signature] 7/29/08
DIRECTOR, OFFICE OF DESIGN
RECOMMENDED BY: [Signature] 7/31/08
TRAFFIC ENGINEER
RECOMMENDED BY: [Signature] 7/30/08
DIVISION DIRECTOR
RECOMMENDED BY: [Signature] 7/30/08
DIRECTOR, OFFICE OF CONSTRUCTION MANAGEMENT
APPROVED BY: [Signature] 7/31/08
DIRECTOR OF MAINTENANCE AND OPERATIONS
APPROVED BY: [Signature] 8/6/08
CHIEF ENGINEER

PREPARED BY: STV Incorporated	PREPARED BY: Stantec
SIGNATURE: [Signature] 7/24/08	SIGNATURE: [Signature] 7/23/08
TAS 08-32I	

ITS	
ABBR.	DESCRIPTION
AWG	AMERICAN WIRE GAUGE
B	BLACK
BL	BLUE
BR	BROWN
C	CONDUCTOR
CAB.	CABINET
CCTV	CLOSED CIRCUIT TELEVISION
CH	CHANNEL
CODEC	ENCODER/DECODER
COMM.	COMMUNICATION
CSU	CHANNEL SERVICE UNIT
DB	DIRECT BURIAL
DET.	DETECTOR
DIA.	DIAMETER
DMS	DYNAMIC MESSAGE SIGN
DSU	DATA SERVICE UNIT
EXT.	EXTENDER
F/O OR F.O.	FIBER-OPTIC
FOUND.	FOUNDATION
GR. MTD.	GROUND MOUNTED
M.E.P.	MODEM ON EXISTING POLE
MT.	MOUNTED
MVMS	MODEM FOR VMS
NEC	NATIONAL ELECTRIC CODE
NESC	NATIONAL ELECTRIC SAFETY CODE
NO.	NUMBER
NYT	NEW YORK TELEPHONE
O.H.	OVERHEAD MOUNTED
PB	PULLBOX
PED	PEDESTRIAN
PR.	PAIR
PROG.	PROGRAMMED
PTZ	PAN/TILT/ZOOM
P.V.C.	CONDUIT, PLASTIC RIGID
R	RED
RF	RADIO FREQUENCY
TDM	TRAFFIC DATA MONITORING STATION
TMS	TRAFFIC MONITORING STATION
TOC	TRAFFIC OPERATIONS CENTER
TV	TELEVISION
UPS	UNINTERRUPTIBLE POWER SUPPLY
VMS	VARIABLE MESSAGE SIGN

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

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

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

TOPOGRAPHY (DRAINAGE) CON'T	
ABBR.	DESCRIPTION
D'XING	DITCH CROSSING
EHW	EXTREME HIGH WATER
EL	ELEVATION
ELEV	ELEVATION
ELW	EXTREME LOW WATER
ES	END SECTION
HW	HEADWALL
INV	INVERT
MH	MANHOLE
MHW	MEAN HIGH WATER
OHW	ORDINARY HIGH WATER
OLW	ORDINARY LOW WATER
RCP	REINFORCED CONCRETE PIPE
TB	TOP OF BANK (STREAM)
TC	TOP OF CURB
TG	TOP OF GRATE
VCP	VITRIFIED CLAY PIPE
SICPP	SMOOTH INTERIOR CORRUGATED PLASTIC PIPE


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

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

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
m	M	METER
m ² OR SM	SQM	SQUARE METER
m ³ OR CM	CM	CUBIC METER
km	KM	KILOMETER
ha	HA	HECTARE
kg	KG	KILOGRAM
† OR Mg•	MT	METRIC TON
L	L	LITER
• THE METRIC TON IS EQUIVALENT TO ONE MEGAGRAM (Mg)		

MISCELLANEOUS	
ABBR.	DESCRIPTION
AOBE	AS ORDERED BY ENGINEER
E.I.C.	ENGINEER IN CHARGE
N.T.S.	NOT TO SCALE

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 DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING ABBREVIATIONS			
		CONTRACT NUMBER: TAS 08-321	
		DATE: JULY 30, 2008	
		DRAWING NUMBER: ABB-1	



Plotted By: pbalasco
Design File: Up192500138P1-consporationdesign080808.dgn
Plot Date: 9/29/2008 2:57:18 PM

Discipline: NYS00T
Project: NY_Highway_Design
Model: BALASCO-P1

File: J. JOHNS

Checked By: J. JOHNS

Drafted By: P. BALASCO

Designed By: M. CONLEY

In Charge Of: J. JOHNS

ESTIMATE OF QUANTITIES

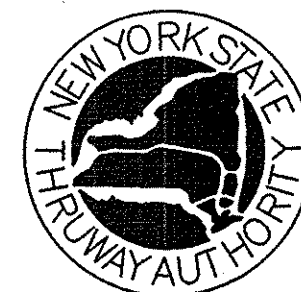
ITEM		DESCRIPTION	UNIT	ESTIMATE	FINAL
201.06	M	CLEARING AND GRUBBING	LS	NEC	100.00
203.02	M	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	64	0.00
203.03	M	EMBANKMENT IN PLACE	CM	1	0.00
203.0802	M	SELECT GRANULAR FILL SLOPE PROTECTION TYPE B	CM	23	0.00
206.01	M	STRUCTURE EXCAVATION	CM	8	0.00
206.03	M	CONDUIT 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	Anchor Bolts	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		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	5.00
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	1785.51
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


6/30/10	addendum 40m	Shiomi	△
6/30/10	FINAL QTY'S	Shiomi	△
DATE	DESCRIPTION	BY	SYM.
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			




File
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 DISCONNECT 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 Brann 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 WORKZONE 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

AS BUILT REVISIONS

6/30/10	Additional Items to Contract	Hansen	Δ
6/30/10	FINAL QUANTITIES	Hansen	Δ
DATE	DESCRIPTION	BY	SYM.
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	

	TAS 08-321
	DATE: JULY 30, 2008
	DRAWING NUMBER: LEG-1

ALIGNMENT			BRIDGE			ROADWAY			ITS			UTILITIES			ROW MAPPING					
CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION			
	ACC	CENTER OF CURVATURE		BSC	BRIDGE, SCUPPER		RES P	ELEVATION, SPOT		IANT P	ANTENNAS		UEB	ELECTRIC, BOX		MDL1P	DEED LINE, TYPE 1			
	ACOGO	COGO	DRAINAGE				RGA	GUIDE RAIL, ANCHOR		IASCTS	ACCOU. SPEED/COUNT SNSR.S		UEM	ELECTRIC, METER		MDL2P	DEED LINE, TYPE 2			
	ACS	CURVE TO SPIRAL					RGP	GUIDE POST, SINGLE		ICABPAD	CABINET & PAD		UEMH	ELECTRIC, MANHOLE		MDL3P	DEED LINE, TYPE 3			
	ADPL_P	DETOUR, POINT OF INTERSECT.					DINV	INVERT		ICCTV	CCTV SITE		UEPT	ELECTRIC, POLE, TRANS.		MDL4P	DEED LINE, TYPE 4			
	ADPL_P	DETOUR, POINT ON LINE					DSI	STRUCTURE, INVERT		ICDPD	CDPD TRANSCEIVER		UGM	GAS, METER		MDL5P	DEED LINE, TYPE 5			
	AEQN	EQUATION		DES	END SECTION		S	SINGLE POST		ICELLT	CELL PHONE TOWER		UGMH	GAS, MANHOLE		MEEP	EASEMENT, EXISTING			
	AEQNAHD	EQUATION AHEAD		DHW	HEADWALL		SB P	SINGLE POST, PROPOSED		ICJB	CONDUIT JACK OR BORING		UGLM	GAS, LINE MARKER		MEPAP_P	EASEMENT, PERM., APPROX.			
	AEQNBK	EQUATION BACK		DSM	STRUCTURE, MANHOLE		SB P	BACK TO BACK, PROPOSED		ICNTLCAB	CONTROLLER CABINET		UGP	GAS/FUEL PUMP		MEPP_P	EASEMENT, PERM., BACK LINE			
	AEVT	EVENT STATION		DSMTXX_P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = 48, 60, 72, 96		SDEL	DELINEATORS		ICPB	COMMUNICATION PULL BOX		UGV	GAS, VALVE		MEPSP_P	EASEMENT, PERM., SHAPE			
	APC	POINT OF CURVATURE		DSR	STRUCTURE, ROUND		SPM	PARKING METER		ICTD	CONDUIT TURNING DOWN		UGVT	GAS, VENT		MFAP_P	FEE ACQUISITION, APPROX.			
	APCC	POINT OF COMPOUND CURVATURE		DST"X"CB P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R		SRM	REFERENCE MARKERS		ICTU	CONDUIT TURNING UP		ULP	LIGHTING, POLE		MFP_P	FEE ACQUISITION, BACK LINE			
	API	POINT OF INTERSECTION		DST"X" P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U		SRSC3	SHLD, CTY, 123 DIG.		ICVTRT	COMM. VEH. ROAD TRASCVR.		ULPM	LIGHTING, POLE, MEDIAN		MFSP_P	FEE ACQUISITION, SHAPE			
	APOB	POINT OF BEGINNING	ENVIRONMENTAL				SRSC4	SHLD, CTY, 4 DIG.		IDEFAULT	DEFAULT		UMFC	MISC. FILLER CAP		MHBAP	HIGHWAY BNDRY., APPROX.			
	APOC	POINT OF CURVATURE					SRSC2	SHLD, CTY TOUR, 1-2 DIG.		IEZR	EZ-PASS READER		UOLM	OIL, LINE MARKER		MHBCP	HISTORICAL, BLDG. CORNERS			
	APOE	POINT OF END					SRSC4	SHLD, CTY TOUR, 3-4 DIG.		IEZTR	TRANSMITTAL READER		UP	POLE, WITH UTILITY		MHBP	HIGHWAY BNDRY, PT.			
	APOL	POINT ON LINE					SRSI	SHLD, INTERSTATE		IFXCAB	FIBER OPTIC X-CONNECT CAB.		UPD	POLE, DEAD (NO UTILITY)		MJCP	PT., JURIS. CITY			
	APOS	POINT ON SPIRAL		EIOP_P	STR., INLET, OUTLET PROT.		SRSN2	SHLD, NATIONAL, 2 DIG.		IFUSSPL	FUSION SPLICE		UPL	POLE, WITH LIGHT		MPBC	PT., BUILDING CORNER			
	APOT	POINT ON TANGENT		EIPCB_P	STR., INLET PROT., CONC. BLOCK		SRSN3	SHLD, NATIONAL, 3 DIG.		IHARADV	HAR ADVISORY SIGN		USMH	SANITARY SEWER MANHOLE		MPCC	PT., CROSS CUT			
	APOVC	POINT ON VERTICAL CURVE		EIPGB_P	STR., INLET PROT., GRAVEL BAG		SRSS2	SHLD, STATE, 2 DIG.		IHARST	HAR SITE		UTB	TELEPHONE, BOOTH		MPDH	PT., DRILL HOLE			
	APOVT	POINT ON VERTICAL TANGENT		EIPHS_P	STR., INLET PROT., HAY/STRAW		SRSS3	SHLD, STATE, 3 DIG.		ILC	LOAD CENTER		UTLM	TELEPHONE, LINE MARKER		MPF	PT., FENCE LOCATION			
	APORC	POINT ON REVERSE CURVE		EIPP_P	STR., INLET PROT., PREFAB.		SRSS4	SHLD, STATE, 4 DIG.		IMECSPL	MECHANICAL SPLICE		UTMH	TELEPHONE, MANHOLE		MPIP	PT., IRON PIPE			
	APT	POINT OF TANGENCY		EIPSF_P	STR., INLET PROT., SILT FENCE	TRAFFIC				IMSCS	PORT. SPEED & COUNT SENS		UTVLM	CABLE TV, LINE MARKER		MPIR	PT., IRON ROD			
	APVC	POINT OF VERTICAL CURVATURE		ERCB	RISER, CONCRETE BOX					TCBJ	BOX, JUNCTION		IMSCTS	MICRO SPEED & COUNT SNSR.		UTVPB	CABLE TV, PULL BOX		MPM	PT., MONUMENT
	APVCC	POINT OF VERT. CMPND CURVE		ETRS_P	TRAP, SEDIMENT					TCBP	BOX, PULL BOX		IMT	MICROWAVE TRANSCEIVER		UUB	UNKNOWN, BOX		MPMM	PT., MONUMENT, MISC.
	APVI	POINT OF VERT. INTERSECTION		EWFG	WETLAND FLAG					TCBS	BOX, SPLICE		IOVHVS	PERM. OVERHEAD VMS		UUJB	UNKNOWN, JUNCTION BOX		MPN	PT., NAIL
	APVRC	POINT OF VERT. REVERSE CURVE	GEOTECHNICAL				TCMC	MICROCOMPUTER CABINET		IPASCS	PORT. ACC. SPD & CNT SNSR.		UUJB	UNKNOWN, JUNCTION BOX		MPRS	PT., RAILROAD SPIKE			
	APVT	POINT OF VERTICAL TANGENCY					TCPP	PED POLE		IPEDS	PEDESTRIAN SIGNAL HEAD		UUPB	UNKNOWN, MANHOLE		UUMH	UNKNOWN, MANHOLE		MPSP	PT., SPIKE
	ASC	SPIRAL TO CURVE					TCSH	SIGNAL HEADS		IPSS	PAVEMENT SURFACE SNSR.		UUMH	UNKNOWN, PULL BOX		UUVL	UNKNOWN, VALVE		MPST	PT., STAKE
	ASPI	SPIRAL POINT OF INTERSECTION					TCSP	SIGNAL POLE		IPVMS	PERM. VMS		UUVT	UNKNOWN, VENT		UUV	UNKNOWN, WELL		MPTW	PT., TREE W/ WIRE
	ASTS	SPIRAL TO SPIRAL	LANDSCAPE			ROW ACQUISITION				IRM	RAMP METER		UWFH	WATER, FIRE HYDRANT	No As Built Revisions					
	AST	SPIRAL TO TANGENT								IRWIS	RDWY WEATHER INFO. SNSR.		UWM	WATER, METER						
	ATS	TANGENT TO SPIRAL								ISP	SOLAR PANEL		UWMH	WATER, MANHOLE						
	AVEVT	VERTICAL EVENT POINT								ISST	SPREAD SPECT. TRANSCEIVER		UWV	WATER, VALVE						
	AVHIGH	VERTICAL HIGH POINT	CONTROL				ITDB	TELEPHONE DEMARCATION BLK		IVTRT	VEHICLE TO RDWY TRANCEIVER		UWW	WATER, WELL	LEGEND					
	AVLOW	VERTICAL LOW POINT				CELL	NAME	DESCRIPTION		ITP	SUBSURFACE TEMP. PROBE		IWMD	WEIGHT IN MOTION DETECTOR			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.			
							LELS	ELEVATION, SPOT		IWVR	WIRELESS VIDEO REPEATER									
							LFP	FLAG POLE		IWVRC	WIRELESS VIDEO RECEIVER									
				CBP	BASELINE, POINT		IWVTT	WIRELESS VIDEO TRANSMITTER												
				CBPOL	BASELINE, POINT ON LINE	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.														
	CBSP	BASELINE, SPUR POINT																		
	CBTP	BASELINE, TIE POINT																		
	CPBM	BENCHMARK																		
	CPH	POINT, HORIZ. PHOTOGRAMMETRY																		
	CPSM	POINT, SURVEY MARKER, PERM.																		
	CPSV	POINT, VERT., PHOTOGRAMMETRY																		
				LPST	POST, SINGLE															
				LRB	ROCK, BOULDER															
				LSHC	SHRUB, CONIFEROUS															
				LSHD	SHRUB, DECIDUOUS															
				LTC	TREE, CONIFEROUS															
				LTD	TREE, DECIDUOUS															
				LTS	TREE, STUMP															
				LTR	TRASH RECEPTICLE															
				LTW P	TREE, WELL OR WALL															
				LUKP	UNKNOWN POINT															

DATE:

JULY

DRAWING:

LE

NEW YORK STATE
THRUWAY AUTHORITY

CONTRACT
TAS
DATE:
JULY
DRAWING:
LE

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

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, NYSDOT 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.

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 08-32I	
		DATE: JULY 30, 2008	
		DRAWING NUMBER: GN-01	



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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)

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

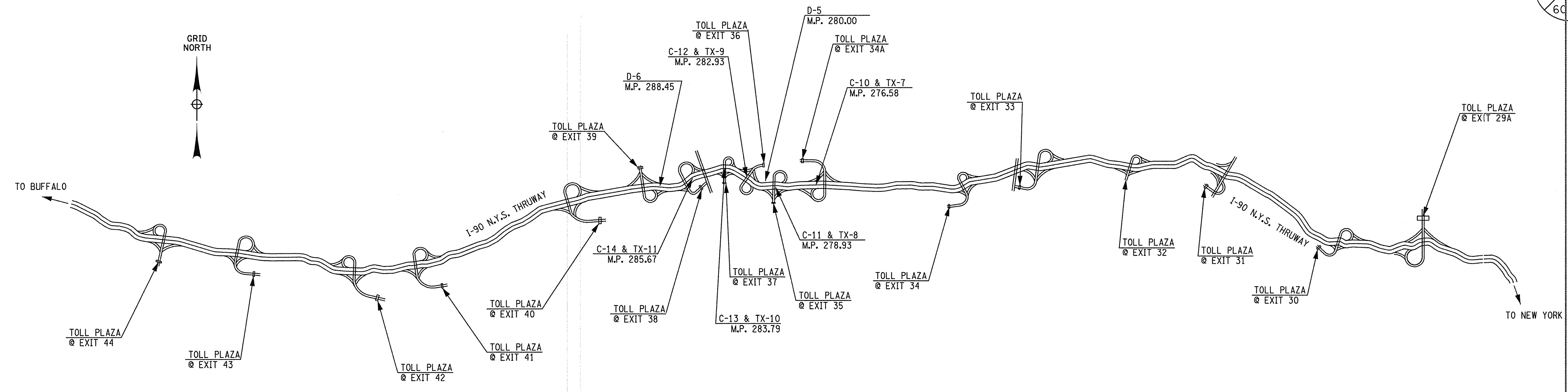
NOTE:
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

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Design File: U:\1925001.38\transportation\design\NONDACA\drawing\QC\key map.dgn
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Discipline: NYSDOT
Project: NY_Highway_Design
Node: BALASCOP-SP1

	J. JOHNS	P. BALASCO	J. JOHNS	File
	DRAFTED BY:	DRAFTED BY:	CHECKED BY:	
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.

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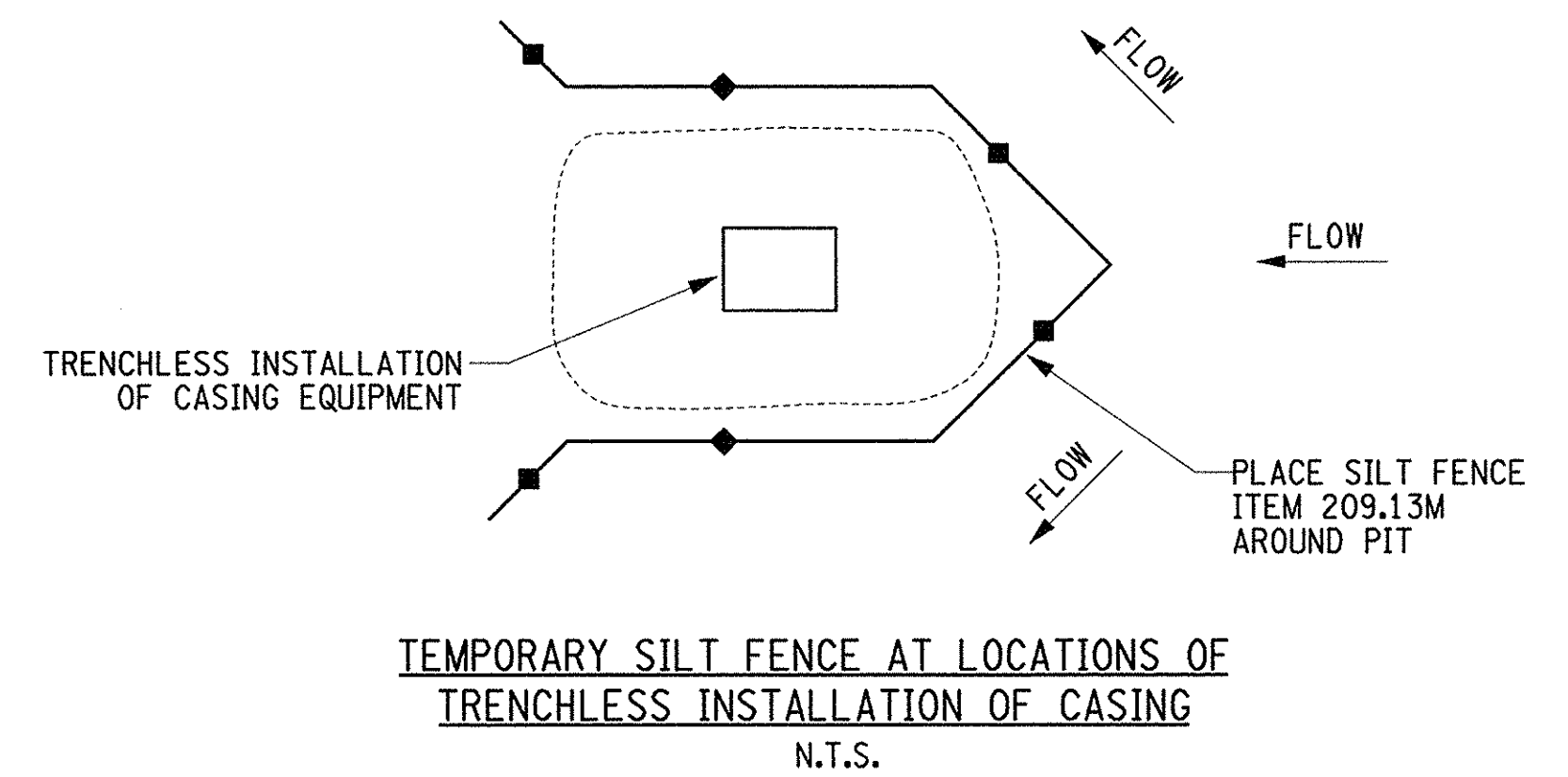
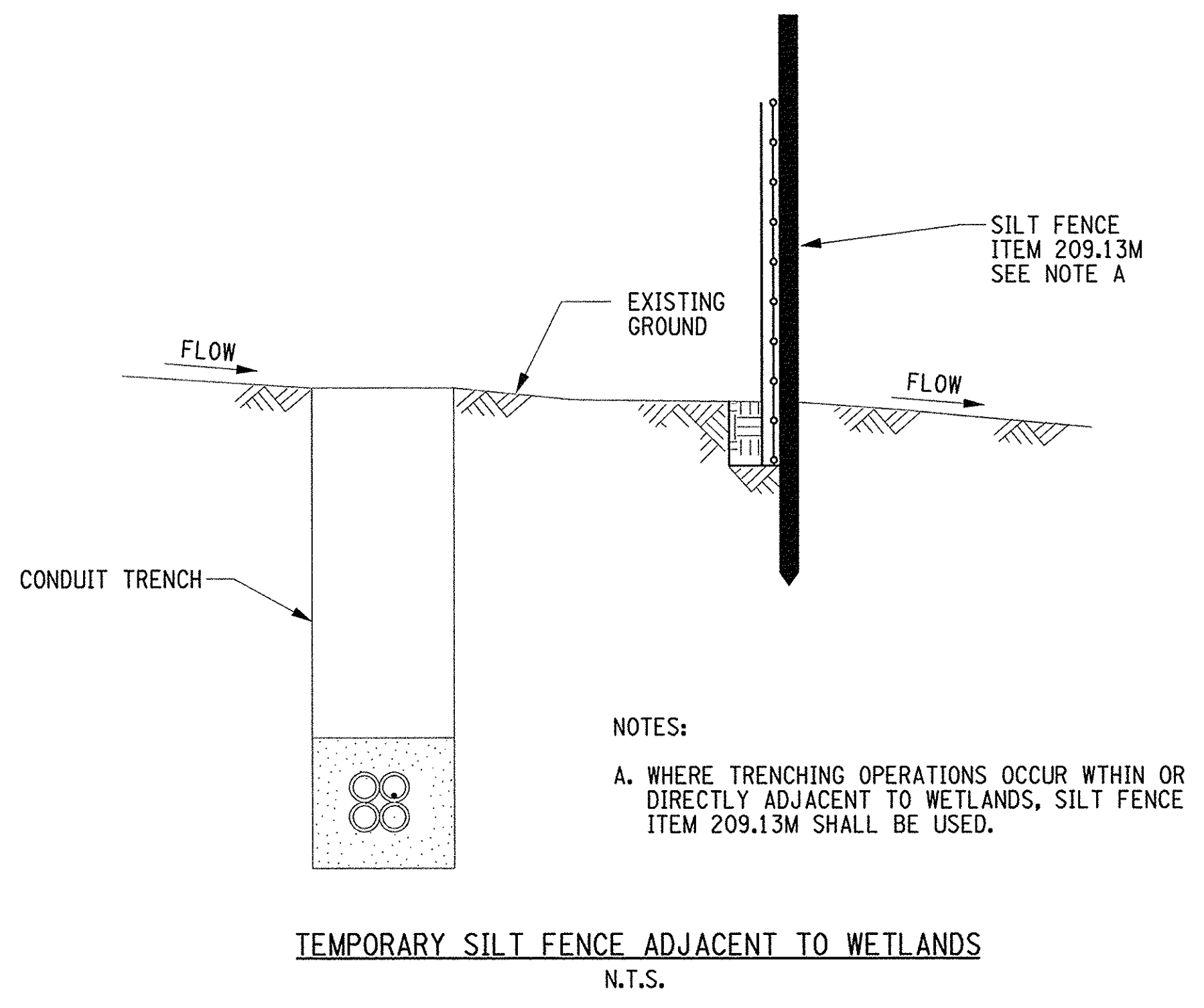
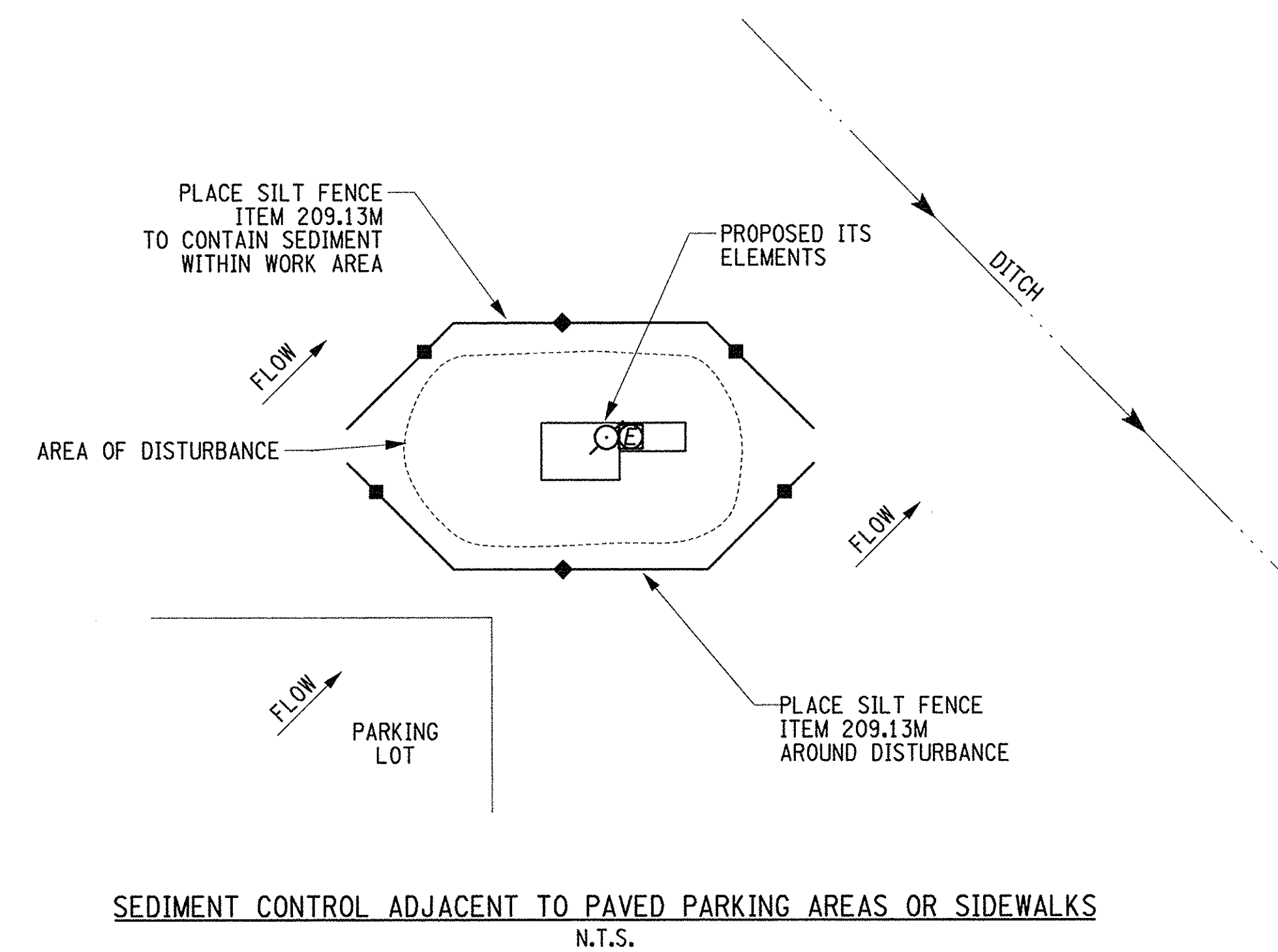
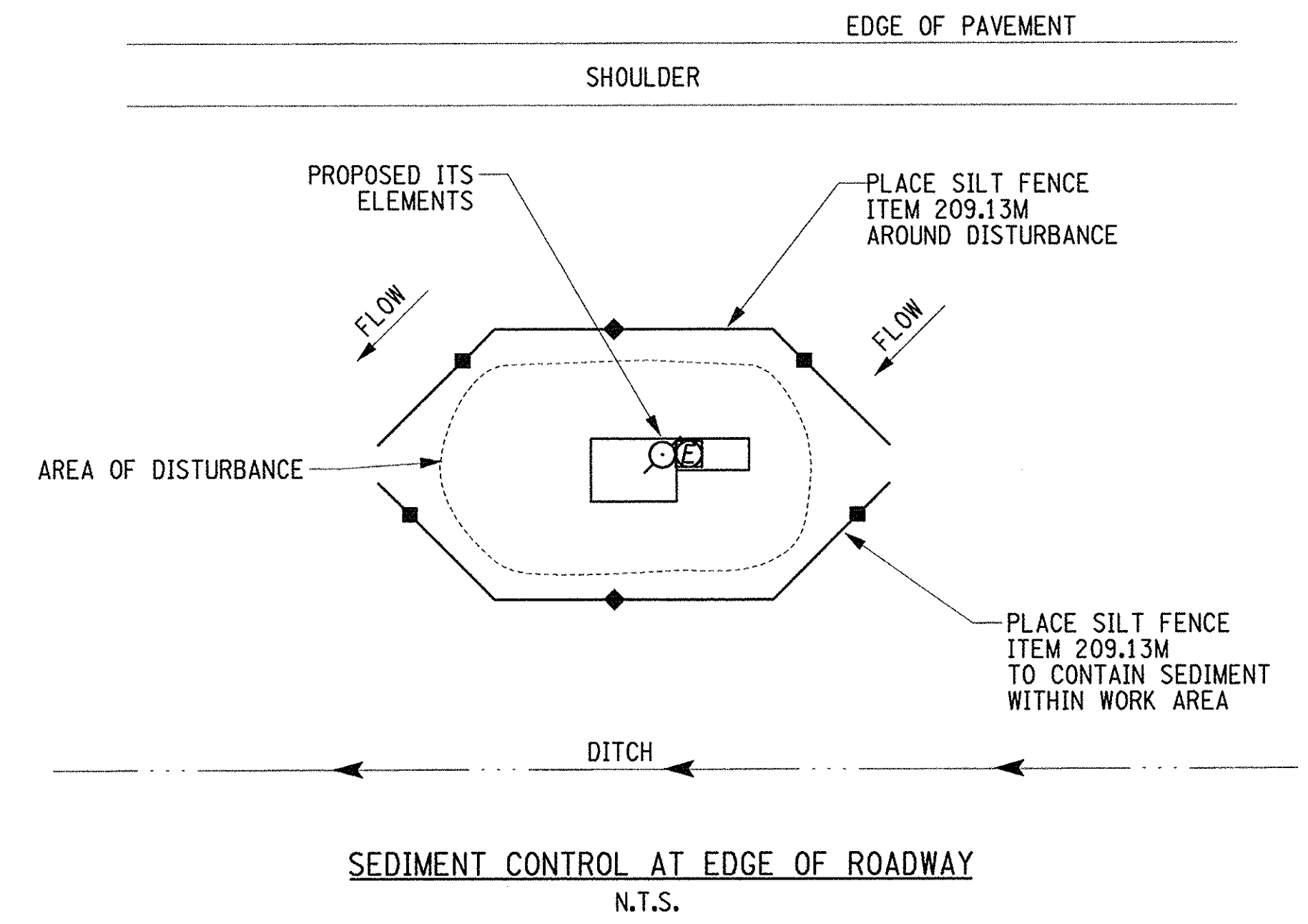
REVISIONS	
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	
TITLE OF PROJECT INSTALLATION OF ITS DEVICES 1-90 VAR. LOC. SYRACUSE DIV.	
LOCATION OF PROJECT SYRACUSE DIVISION	
TITLE OF DRAWING	

<h1 style="text-align: center;">KEY PLAN</h1>	
	CONTRACT NUMBER: <div style="font-size: 24pt; font-weight: bold; text-align: center;">TAS 08-321</div>
	DATE: <div style="font-size: 24pt; font-weight: bold; text-align: center;">JULY 30, 2008</div>
	DRAWING NUMBER: <div style="font-size: 24pt; font-weight: bold; text-align: center;">GN-03</div>



File _____

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



- ### 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 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 NYSDOT 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 NYSDOT STANDARD SPECIFICATION 209.1004.

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

REF. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY.
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

[illegible]

TRAFFIC CONTROL PLAN

1. GENERAL:
MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE COMPLIED WITH THROUGHOUT THE LENGTH AND DURATION OF THE CONTRACT IN ACCORDANCE WITH SECTION 619 OF THE NYSOT STANDARD SPECIFICATIONS, THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS - 2003 EDITION, THE NEW YORK STATE SUPPLEMENT TO THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS - 2007 EDITION, THE THRUWAY ADDENDUM TO NYSOT STANDARD SPECIFICATIONS, AND CONTRACT DOCUMENTS.
2. CHANGES TO THE TRAFFIC CONTROL PLAN:
THESE NOTES ARE PROVIDED TO ALERT THE CONTRACTOR TO THE CONSTRAINTS IMPOSED ON MAJOR CONSTRUCTION ACTIVITIES AS A RESULT OF IMPLEMENTING THE TRAFFIC CONTROL MEASURES DESCRIBED IN THE PLANS. THE ACTIVITIES DESCRIBED FOR THE STAGES OF WORK DO NOT INCLUDE ALL OF THE CONSTRUCTION ACTIVITIES TO BE COMPLETED BY THE CONTRACTOR. CHANGES TO THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. CHANGES TO THE BASIC CONCEPT OF THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE THRUWAY AUTHORITY FOR APPROVAL. ANY AND ALL CHANGES SHALL BE IN ACCORDANCE WITH THE PROVISIONS CONTAINED IN THE PROPOSAL AND THE MUTCD.
3. GENERAL METHOD OF MAINTENANCE AND PROTECTION OF TRAFFIC:
THE TRAFFIC MAINTENANCE SCHEMES SHOWN ON THESE PLANS DESCRIBE THE RECOMMENDED METHODS AND CONTROL DEVICES NECESSARY. THE ENGINEER MAY ORDER ADDITIONAL DEVICES AND/OR METHODS TO MEET FIELD CONDITIONS.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN THE NUMBER OF TRAFFIC LANES SHOWN FOR EACH STAGE OF CONSTRUCTION. CLOSURE OF ANY OF THESE LANES SHALL ONLY BE ALLOWED AS PERMITTED IN THE SCHEDULE OF SUSPENSION OF WORK CONTAINED IN THE PROPOSAL. STOPPING OF TRAFFIC SHALL ONLY BE DONE BY THE STATE POLICE.
4. SIGNING:
THE SIGNING SHOWN IS A MINIMUM ONLY. ADDITIONAL SIGNING MAY BE REQUIRED TO MEET TRAFFIC AND/OR FIELD CONDITIONS. DISTANCES SHOWN ARE APPROXIMATE ONLY AND MAY BE REVISED TO MEET FIELD CONDITIONS, A.O.B.E.
- ALL SIGNS MAY BE FOUND IN THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (FHWA) AND/OR THE NEW YORK STATE SUPPLEMENT. ORANGE SIGNS ON RIGID PANELS SHALL BE FLOURESCENT ORANGE ASTM TYPE IX (CLASS E) RETROREFLECTIVE SHEETING. ALL STOP OR SLOW PADDLES SHALL BE TYPE IX (CLASS E). ALL OTHER COLORS OF CONSTRUCTION SIGN FACES ON RIGID PANELS SHALL BE ASTM TYPE III (CLASS B) REFLECTIVE SHEETING.
- TEMPORARY SIGN SUPPORTS SHALL PROVIDE A MINIMUM MOUNTING HEIGHT OF 1.524m (5 FEET), MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT. SIGNS SHALL BE PLACED AT OR AS NEAR AS PRACTICABLE TO THE LOCATION SHOWN. LATERAL PLACEMENT OF SIGNS SHALL CONFORM TO SECTION 6F.03 OF THE NATIONAL MUTCD.
- CHANNELING DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD AND SECTION 729 OF THE STANDARD SPECIFICATIONS WITH THE EXCEPTION THAT SHEETING ON DRUMS SHALL BE ASTM TYPE IX AND BE 150mm (6 INCHES) WIDE. CHANNELIZING DEVICE TYPE AND SPACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 619 OF THE STANDARD SPECIFICATIONS.
- AT THE START OF WORK ON THE PROJECT ALL WORK ZONE TRAFFIC CONTROL DEVICES SHALL APPEAR IN "ACCEPTABLE" CONDITION AS PICTURED IN THE ATSSA MANUAL, GUIDELINES FOR WORK ZONE TRAFFIC CONTROL DEVICES. THESE DEVICES SHALL NOT BE ALLOWED TO FALL BELOW THE "MARGINAL" CONDITION AT ANY TIME DURING THE LIFE OF THE PROJECT.
5. MUD AND DUST CONTROL:
THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL MUD, DUST, DIRT, ETC. CAUSED BY CONSTRUCTION VEHICLES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 619.0101 M.

MPT GENERAL NOTES

1. EXISTING SIGNS:
AFTER THE CONSTRUCTION SIGNS ARE ERECTED, ALL SIGNS (EXISTING OR PROPOSED) NOT REQUIRED FOR THE CONSTRUCTION STAGE SHALL BE COMPLETELY COVERED OR REMOVED TO THE SATISFACTION OF THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR MAINTENANCE & PROTECTION OF TRAFFIC.
2. TRAFFIC CONTROL MARKINGS:
ALL TEMPORARY PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 619-3.06 OF THE STANDARD SPECIFICATIONS, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE NATIONAL MUTCD AND NEW YORK STATE SUPPLEMENT TO THE NATIONAL MUTCD, OR AS ORDERED BY THE ENGINEER.
3. TRAFFIC CONTROL MARKING REMOVAL:
ANY LOCATION WHERE THE EXISTING MARKINGS ARE NOT CONSISTENT WITH THE TRAFFIC BEING MAINTAINED SHALL BE REMOVED A.O.B.E. REMOVAL OF PAINT ON PAVEMENT WHICH IS NOT TO BE RESURFACED SHALL BE DONE WITHOUT NOTICEABLE DAMAGE TO THE PAVEMENT. IF THE PAVEMENT IS DAMAGED IT SHALL BE REPAIRED A.O.B.E AT NO COST TO THE AUTHORITY. MILLING SHALL NOT BE AN ACCEPTABLE METHOD OF REMOVAL. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH NYSOT STANDARD SPECIFICATIONS, SECTION 619-3.05.
4. APPROVED TEMPORARY ATTENUATOR - REDIRECTIVE, ITEM 619.1803 M, SHALL BE TL3 COMPLIANT FOR ALL MAINLINE THRUWAY AND ROADWAYS WITH OPERATING SPEEDS OF 55 MPH AND ABOVE. ATTENUATOR SHALL BE INSTALLED ON 1:10 OR FLATTER ASPHALT, CONCRETE, OR OTHER SURFACES IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

DESCRIPTION OF MPT OPERATIONS

SITE D-5

1. INSTALL TEMPORARY CONCRETE BARRIER, DRUMS, AND SIGNS.
2. REMOVE EXISTING GUIDE RAIL
3. INSTALL DMS AND APPURTENANCES.
3. REMOVE TEMPORARY CONCRETE BARRIER.
4. INSTALL PROPOSED GUIDE RAIL.
5. REMOVE DRUMS AND SIGNS.

SITE D-6

1. INSTALL TEMPORARY CONCRETE BARRIER, DRUMS, AND SIGNS.
2. INSTALL DMS AND APPURTENANCES.
3. REMOVE TEMPORARY CONCRETE BARRIER.
4. REMOVE EXISTING GUIDE RAIL AND INSTALL PROPOSED GUIDE RAIL.
5. REMOVE DRUMS AND SIGNS.


SITE TX-7 THROUGH TX-11

1. INSTALL TRAFFIC CONTROL DEVICES FOR ONE LANE OR TWO LANE CLOSURE IN ACCORDANCE WITH STANDARD DRAWING NO.'S LCD-65 (M) AND 2-LCD-65 (M). FOR TRAFFIC CONTROL AT INTERCHANGES USE STANDARD DRAWING NO. INT.
2. THE CONTRACTOR MUST SUBMIT THE SCHEDULE OF LANE CLOSURE IN ADVANCE TO THRUWAY AUTHORITY FOR APPROVAL.

SITE C-11 THROUGH C-14

1. IF NECESSARY, CONTRACTOR CAN IMPLEMENT ONE LANE CLOSURE IN ACCORDANCE WITH STANDARD DRAWING NO. LCD-65 (M) TO PERFORM WORK OUTSIDE THE TRAVEL LANE.

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 MAINTENANCE AND PROTECTION OF TRAFFIC NOTES			
		CONTRACT NUMBER: TAS 08-32	
		DATE: JULY 30, 2008	
		DRAWING NUMBER: MPT-1	



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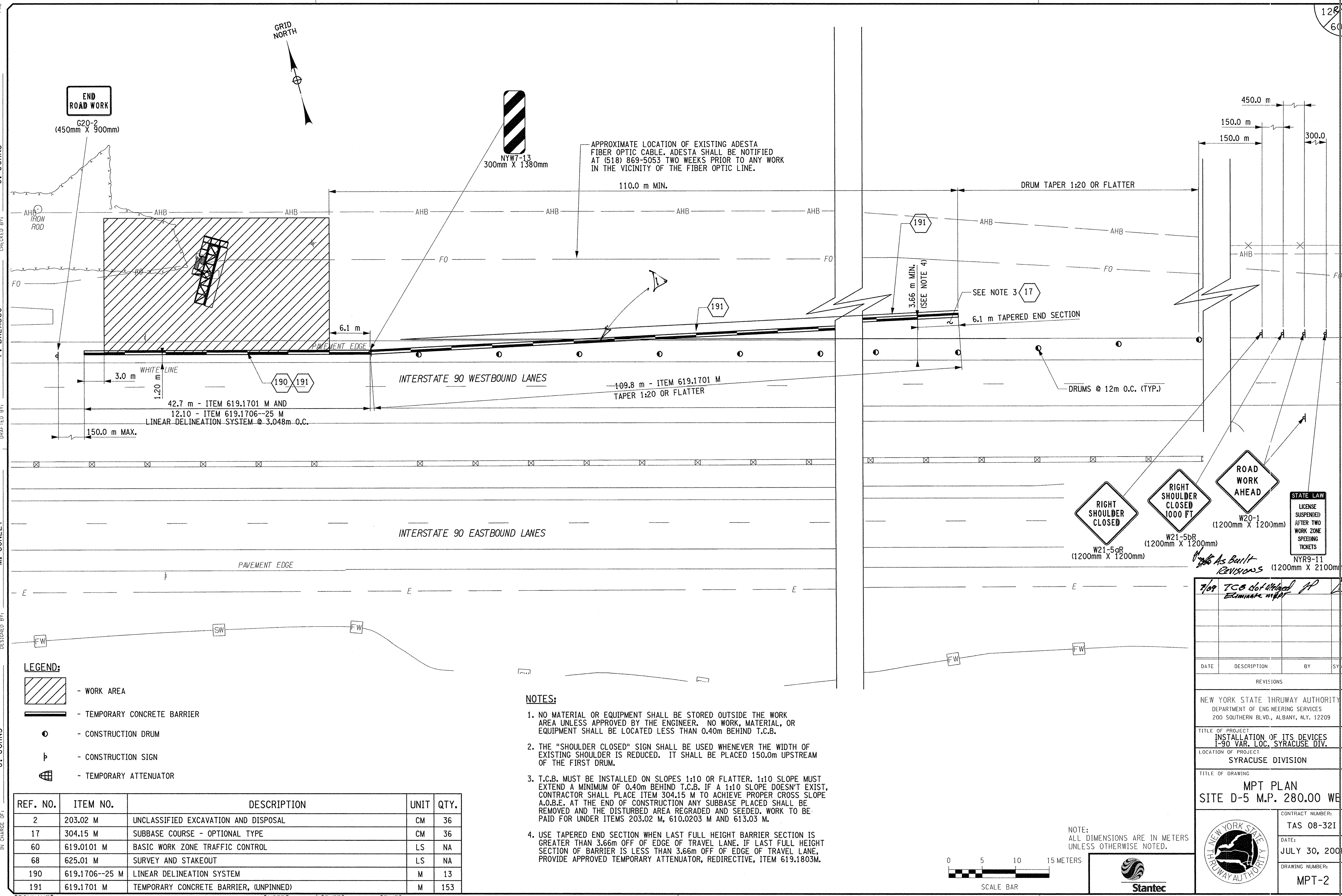
Discipline: NYSOT
Project: NY Highway Design
Node: BALASCO-SPI

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

Discipline: NYSDOT
Project: NY_Highway_Design
Node: BAL-ASCP-SPI
Plotted By: bbalasco
Design File: User1925001386transportationdesign00NONDACA&drawingMPT00MS.SVR_02_mpt.dgn
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Discipline: NYSDOT
Project: NY_Highway_Design
Node: BALASCP-SP1

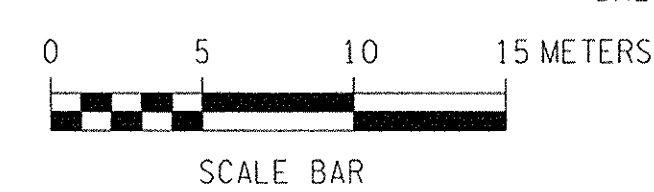
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Project: NY_Highway
Node: BALASCO



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

- NOTES:**
1. 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.
 2. 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.
 3. 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.
 4. 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:
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UNLESS OTHERWISE NOTED.

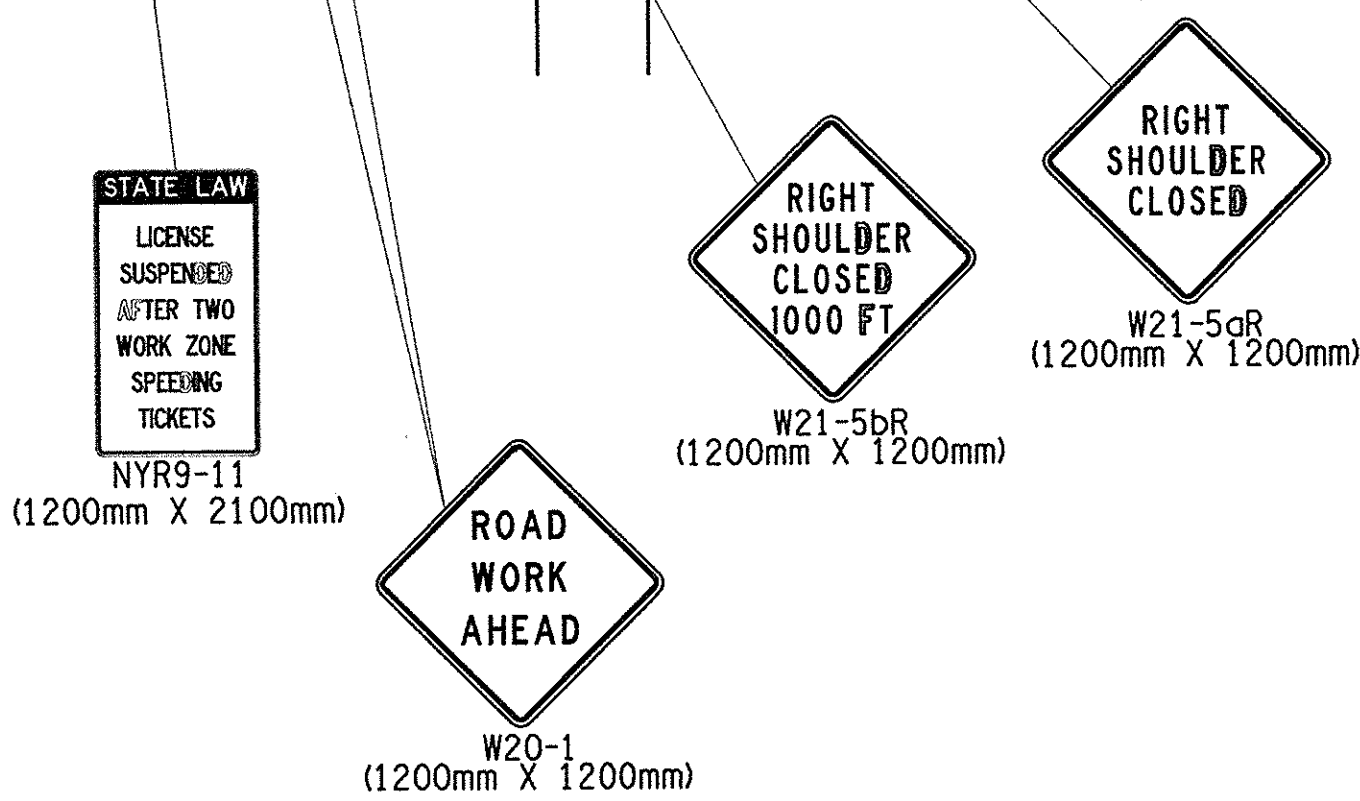
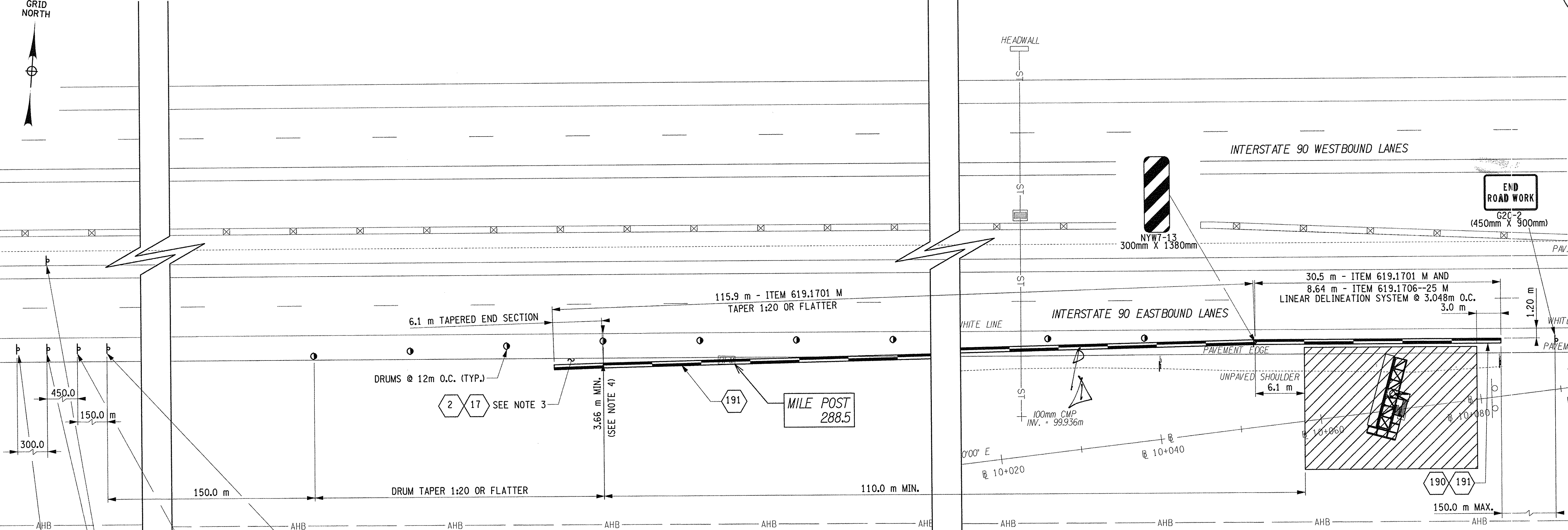


CONTRACT NUMBER:	TAS 08-32I
DATE:	JULY 30, 2008
DRAWING NUMBER:	MPT-2

Plotted By: J. JOHNS
Design File: J. JOHNS
Notes: J. JOHNS

Discipline: NYSDOT
Project: NY Highway Design
Notes: BALASCO-SF1

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



LEGEND:

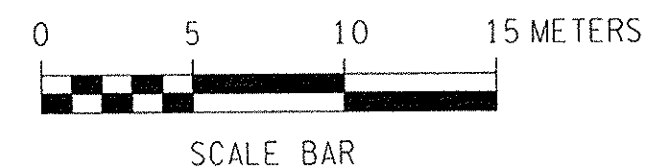
- WORK AREA
- TEMPORARY CONCRETE BARRIER
- CONSTRUCTION DRUM
- CONSTRUCTION SIGN
- TEMPORARY ATTENUATOR

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:

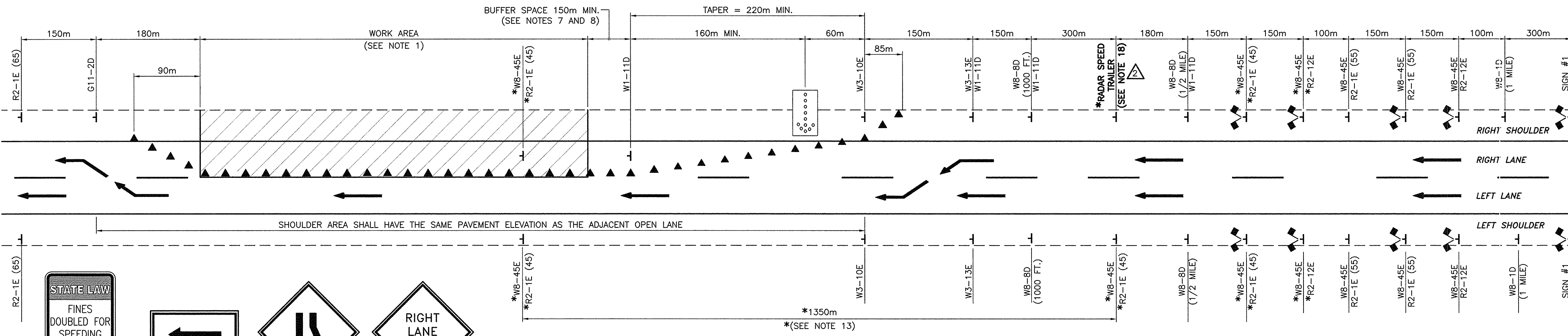
- NO MATERIAL OR EQUIPMENT SHALL BE STORED OUTSIDE THE WORK AREA UNLESS APPROVED BY THE ENGINEER. NO WORK, MATERIAL, OR EQUIPMENT SHALL BE LOCATED LESS THAN 0.40m BEHIND T.C.B.
- THE "SHOULDER CLOSED" SIGN SHALL BE USED WHENEVER THE WIDTH OF EXISTING SHOULDER IS REDUCED. IT SHALL BE PLACED 150.0m UPSTREAM OF THE FIRST DRUM.
- 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.

NOTE:
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UNLESS OTHERWISE NOTED.



11/09 AS BUILT REVISIONS			
T.C.B. Eliminated MPT Plan not kept JP			
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 MPT PLAN SITE D-6 M.P. 288.45 EB			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: MPT-3			

SS Lane-Closure-DLY-65-M.dwg
CHECKED BY: J. PEGARELLA
DRAFTED BY: CAD
DESIGNED BY: TIA
IN CHARGE OF: TIA



PLAN
N.T.S.

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:

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.

7. 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.
8. 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.

9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. EXISTING SPEED LIMIT SIGNS WITHIN THE WORK ZONE SHALL BE COVERED TO AVOID CONFLICT WITH THE WORK ZONE SPEED LIMIT SIGNS.
15. EXISTING PAVEMENT MARKINGS SHALL BE MAINTAINED BY THE CONTRACTOR WITHIN THE PROJECT LIMITS.

16. SEE PROPOSAL FOR SIGN FACE LAYOUT.
17. THIS SHEET APPLIES TO TWO, THREE, AND FOUR LANE SECTIONS.
18. 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

SIGN #1
1.2m x 1.8m
SEE NOTE #16

W1-11D
1.2m x 600mm

W3-10E
1.2m x 1.2m

W3-13E
1.2m x 1.2m

W8-1D
1.2m x 1.2m

W8-8D
1.2m x 1.2m

W8-8D
1.2m x 1.2m

W8-45E
1.2m x 400mm

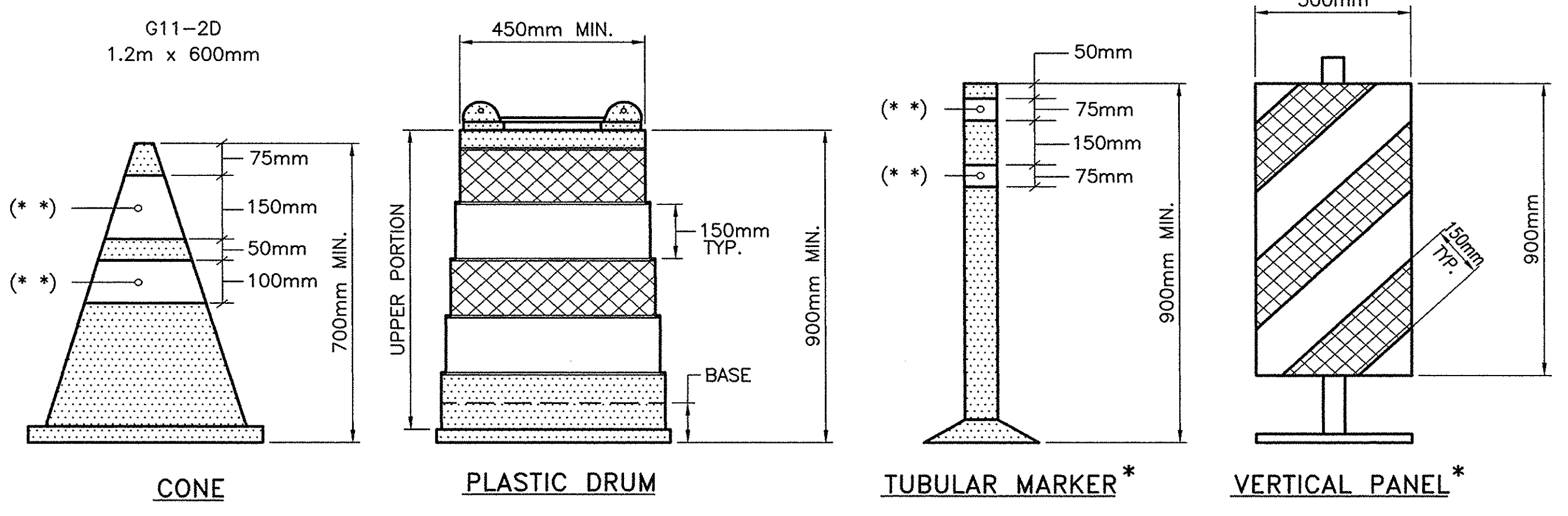
R2-1E
1.2m x 1.5m

R2-1E
1.2m x 1.5m

R2-1E
1.2m x 1.5m

R2-12E
1.2m x 1.5m

G11-2D
1.2m x 600mm



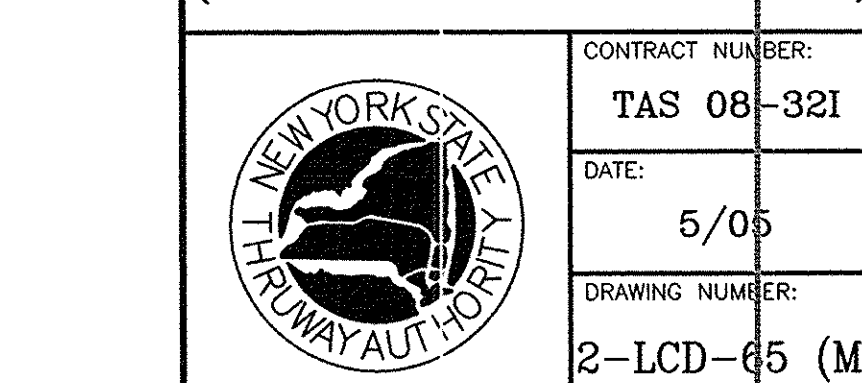
CHANNELIZING DEVICES
N.T.S.

* 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.

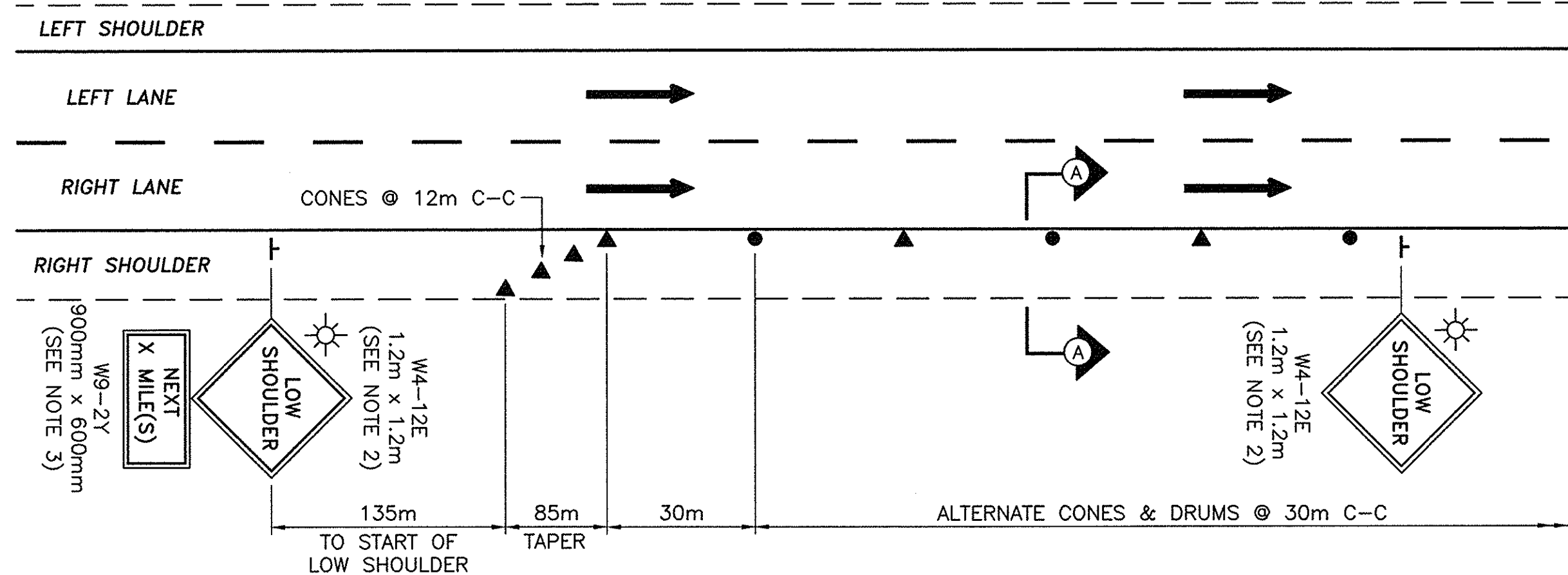
LEGEND

- 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.

2/07	CONE SPACING CHANGE	J.P.	3
2/07	SPEED LIMIT GUIDELINES	J.P.	2
8/06	SHEETING SPEC. CHANGE	J.P.	1
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 LANE CLOSURE (DAILY) (65 MPH SPEED LIMIT ZONES)			
CONTRACT NUMBER: TAS 08-321		DATE: 5/05	
DRAWING NUMBER: LCD-65 (M)			

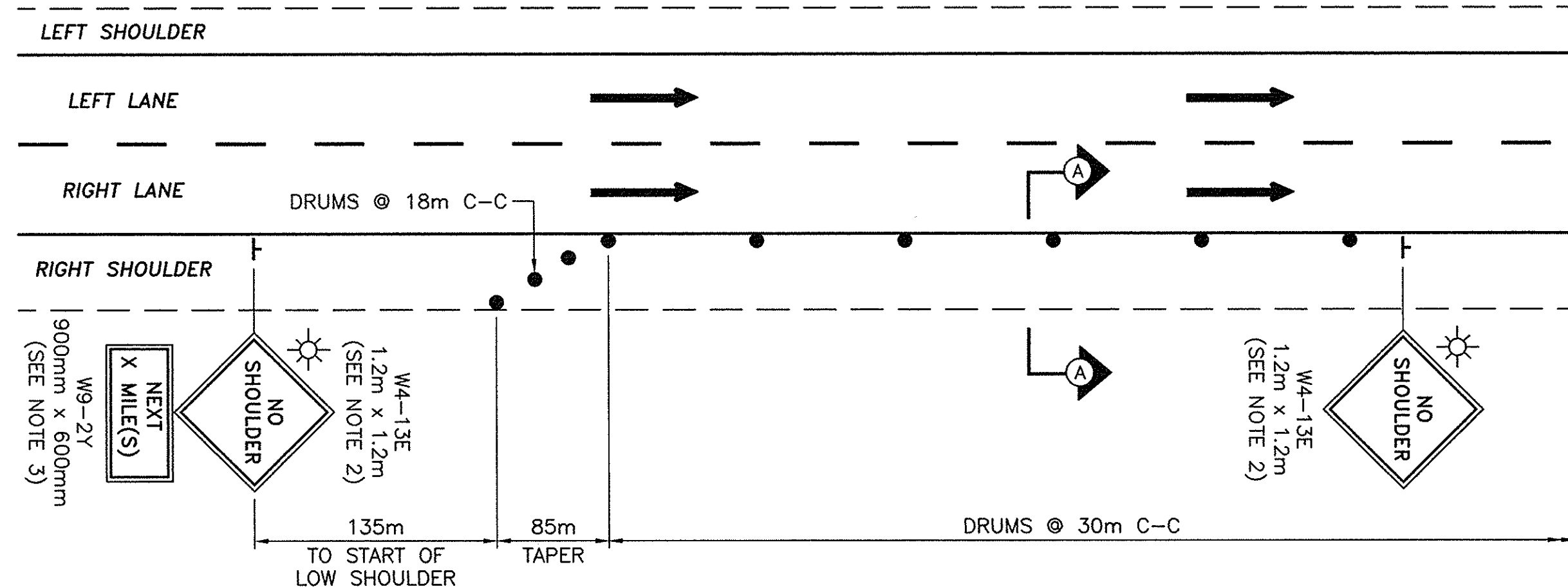


SS WSC-OPERATIONS-MDWG
CHECKED BY: J. PEGARELLA
DRAFTED BY: CAD
DESIGNED BY: TA
IN CHARGE OF: TA



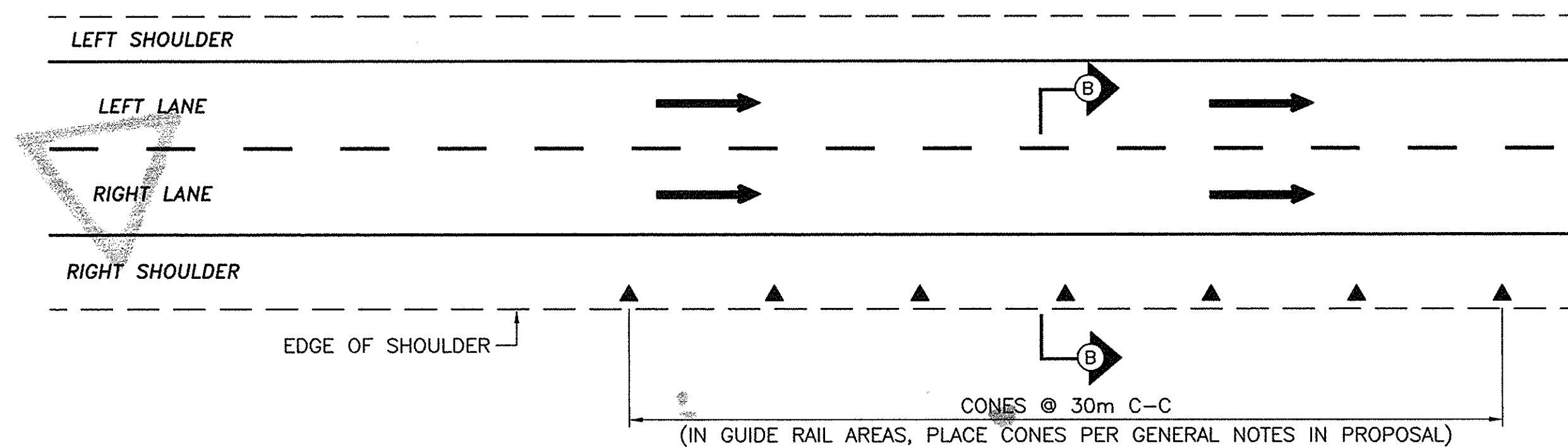
TRAFFIC CONTROL PLAN FOR AREAS WITH
SHOULDER DROP OF 38mm TO 102mm

N.T.S.



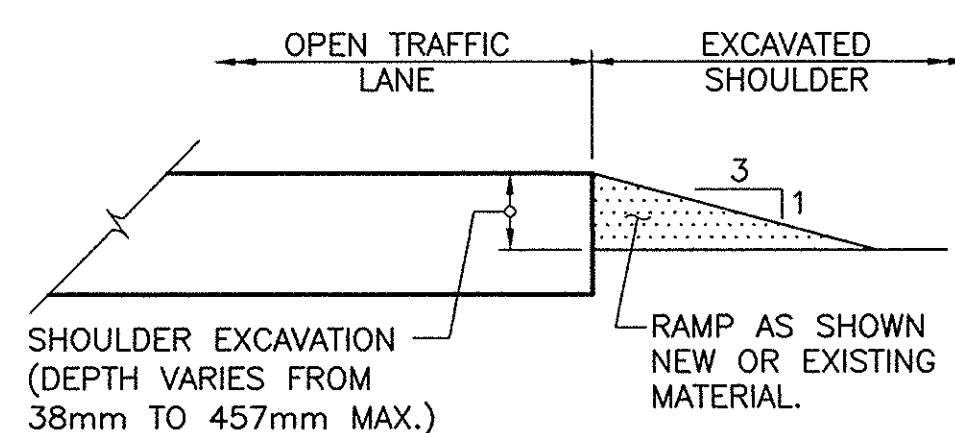
TRAFFIC CONTROL PLAN FOR AREAS WITH
SHOULDER DROP OF 102mm TO 457mm

N.T.S.

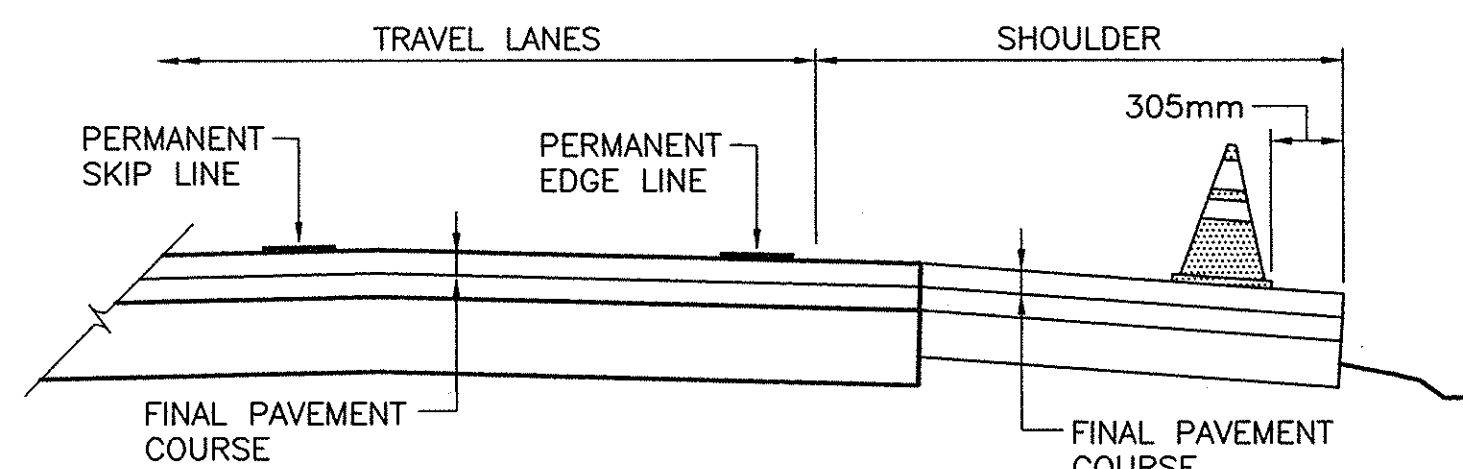


TRAFFIC CONTROL PLAN FOR AREAS
WITHOUT SHOULDER BACK-UP INSTALLED

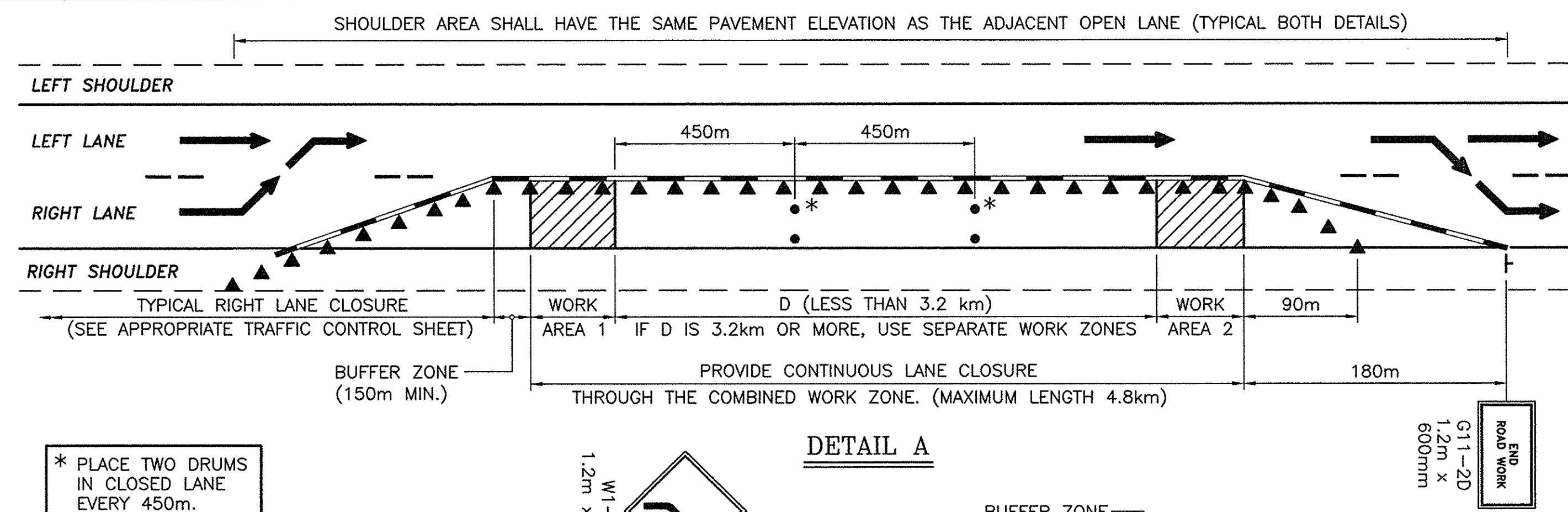
N.T.S.



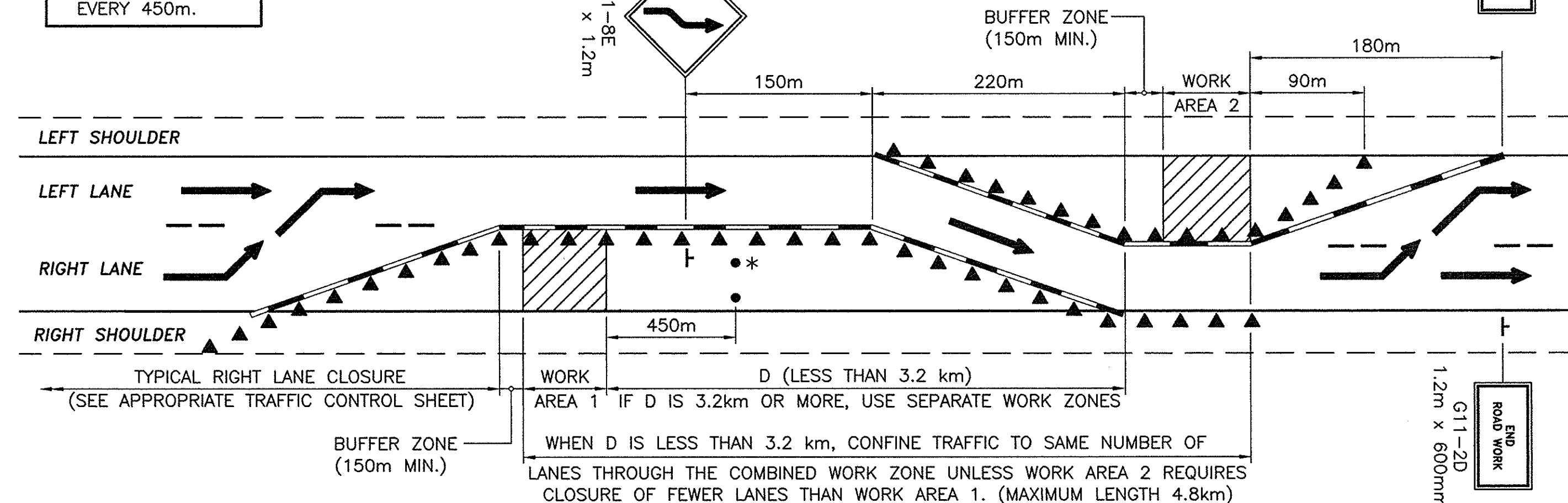
SECTION A-A
N.T.S.



SECTION B-B
N.T.S.

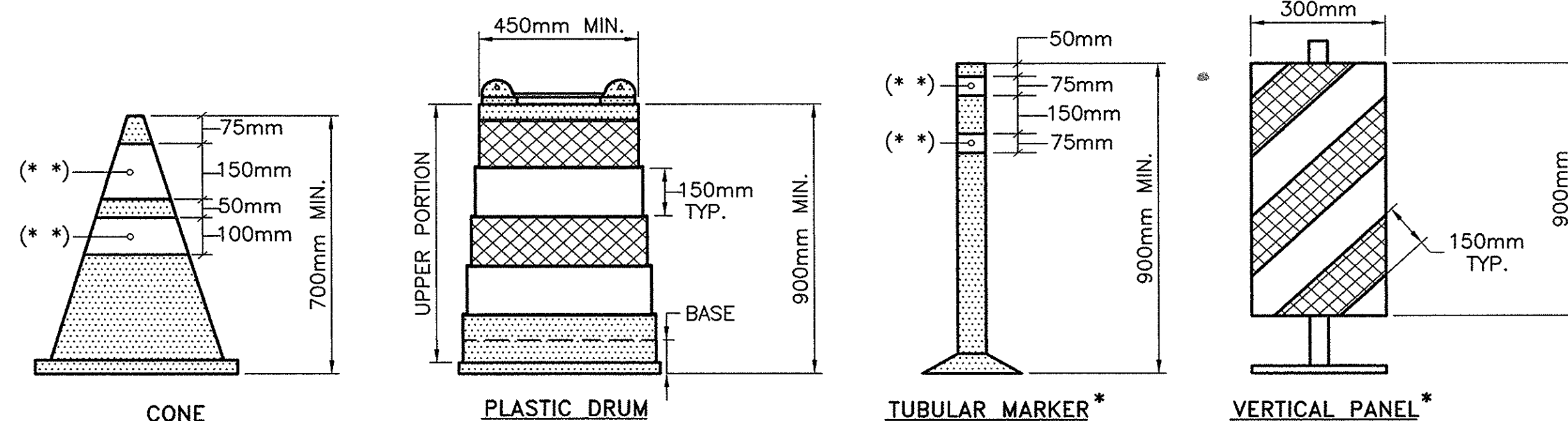


* PLACE TWO DRUMS
IN CLOSED LANE
EVERY 450m.



SUCCESSIVE WORK ZONES - TWO LANE SECTIONS

(THREE LANE SECTIONS SIMILAR)
N.T.S.



CHANNELIZING DEVICES

N.T.S.

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

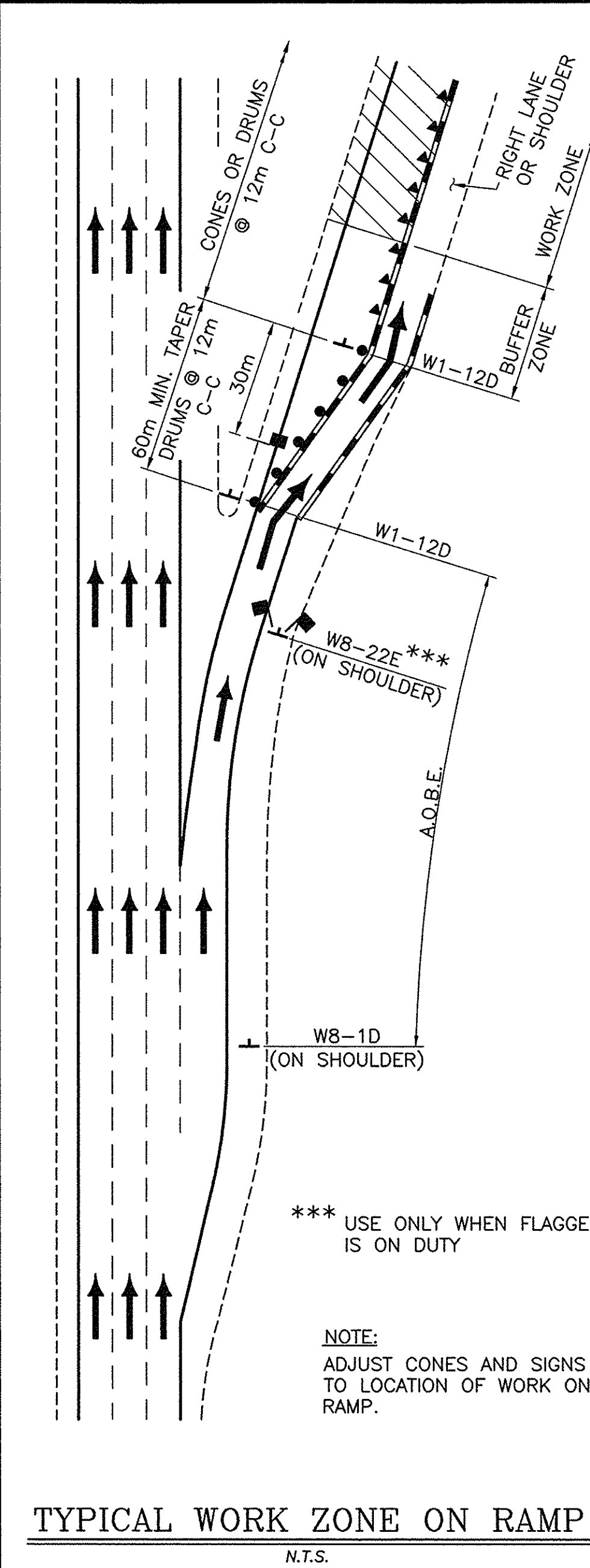
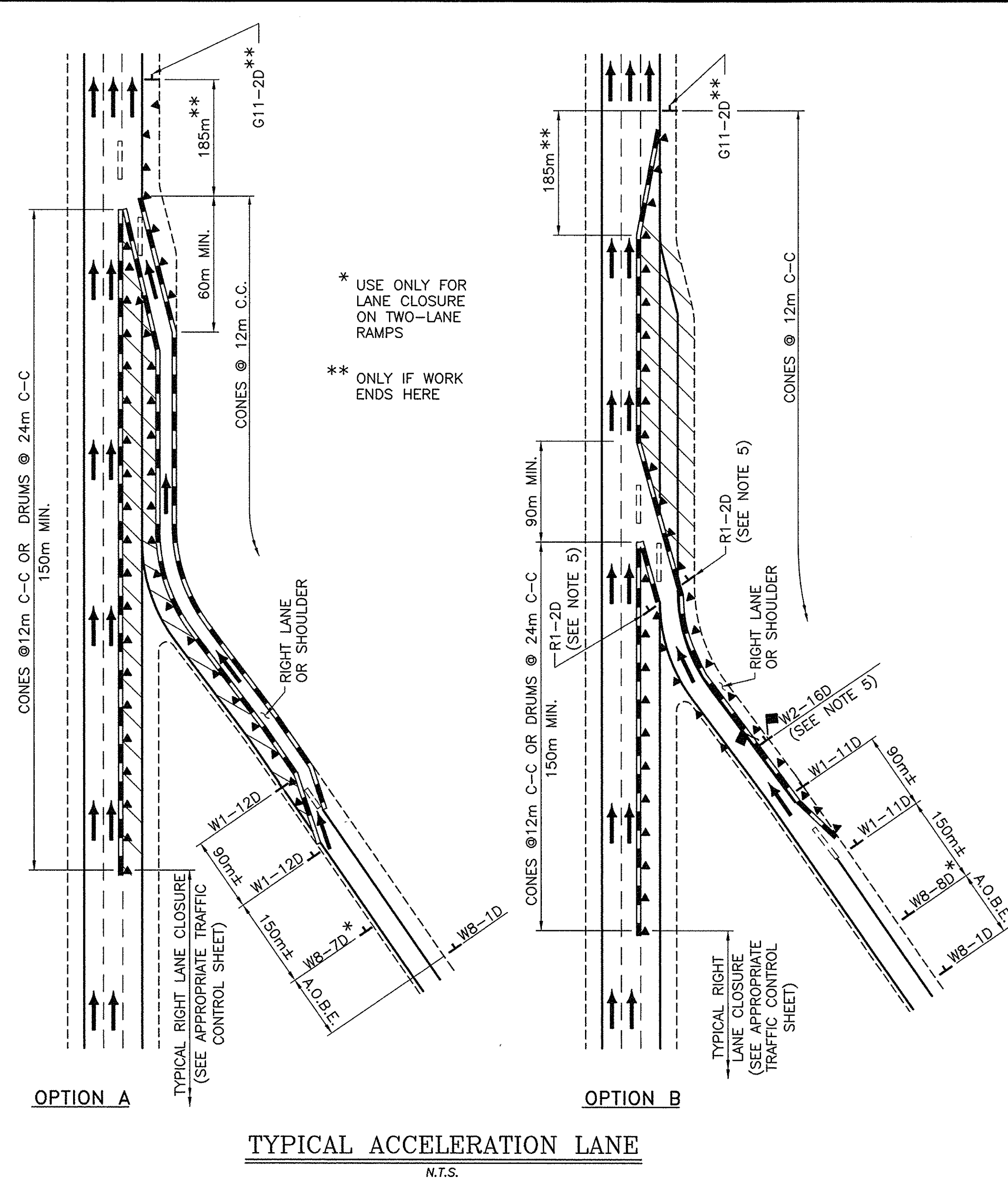
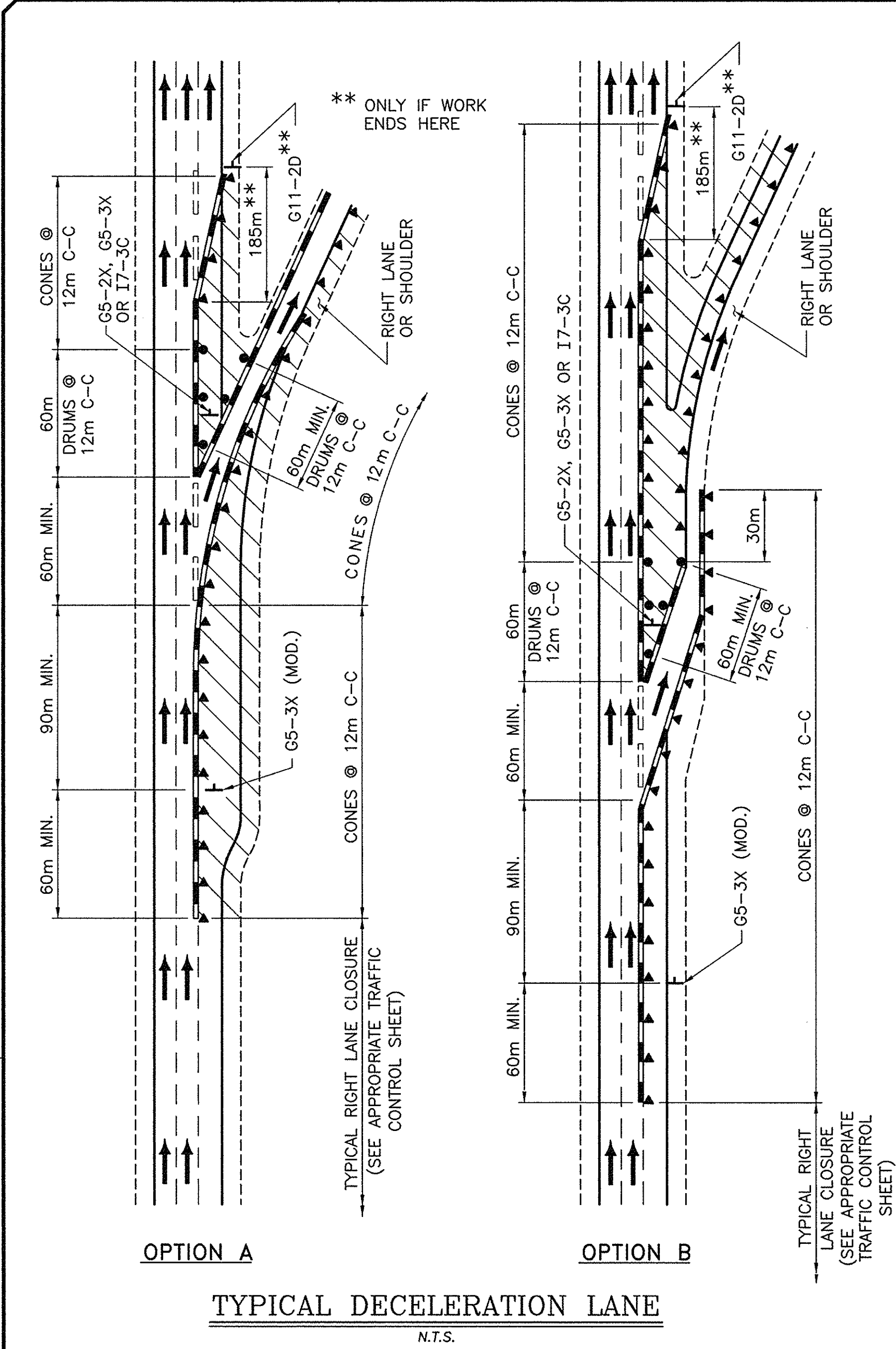
- ▲ TRAFFIC CONE
- DRUM
- ☼ FLASHING LIGHT, LOW INTENSITY, FOR NIGHT USE OR A.O.B.E.
- ⊥ SIGN (ALL "W" SERIES SIGNS TO BE BLACK ON FLUORESCENT ORANGE)
- REMOVAL OF EXISTING PAVEMENT MARKINGS (SEE NOTE A)
- TEMPORARY PAVEMENT MARKING FOR CONSTRUCTION. (SEE NOTE A)
- WHITE RETROREFLECTORIZED SHEETING, 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.

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

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)			

DESIGNED BY: TA
IN CHARGE OF: TA
DRAFTED BY: CAD
CHECKED BY: J. PEGARELLA
SSVTC-INTER-SERVICE-PARKING-M.DWG



- NOTES:**
- 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 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. SIGNS 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.
 - 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.
 - "YIELD" (R1-2D) AND "YIELD AHEAD" (W2-16D) SIGNS ARE REQUIRED WHENEVER A MAINLINE LANE ADJACENT TO AN ACCELERATION LANE (ENTRANCE RAMP) IS CLOSED. IN AREAS WHERE THE MAINLINE ADJACENT TO AN ACCELERATION LANE (ENTRANCE RAMP) IS REDUCED TO A SINGLE THROUGH LANE, A FLAGGER WITH ACCOMPANYING "FLAGGER AHEAD" (W8-22E) SIGN MAY BE USED IN LIEU OF THE "YIELD" AND "YIELD AHEAD" SIGNS. THE FLAGGER WITH ACCOMPANYING "FLAGGER AHEAD" SIGN SHALL BE PLACED ON THE ACCELERATION LANE (ENTRANCE RAMP) IN ACCORDANCE WITH THE GUIDELINES ESTABLISHED IN THE MUTCD. THIS SUBSTITUTION IS NOT PERMITTED IN AREAS WHERE THE ACCELERATION LANE (ENTRANCE RAMP) IS A HIGH-SPEED FREEWAY-TO-FREEWAY CONNECTION RAMP.
 - THE "FLAGGER AHEAD" (W8-22E) SIGN SHALL BE USED WHENEVER THE FLAGGER IS ON DUTY AT THE FLAGGING STATION. THE "FLAGGER AHEAD" SIGN SHALL BE PROMPTLY REMOVED, COVERED, TURNED AWAY FROM TRAFFIC, OR CHANGED TO ANOTHER APPROPRIATE LEGEND WHENEVER THE FLAGGER IS NOT AT THE FLAGGING STATION.
 - 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.

YIELD
R1-2D
1.2m

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

YIELD AHEAD
W2-16D
1.2m x 1.2m

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

ROAD WORK
XXX FT.
W8-1D
1.2m x 1.2m
(DISTANCE TO NEAREST 100 FT.)

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

YIELD AHEAD
W2-16D
1.2m x 1.2m

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

ROAD WORK
XXX FT.
W8-1D
1.2m x 1.2m
(DISTANCE TO NEAREST 100 FT.)

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

YIELD AHEAD
W2-16D
1.2m x 1.2m

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

ROAD WORK
XXX FT.
W8-1D
1.2m x 1.2m
(DISTANCE TO NEAREST 100 FT.)

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

YIELD AHEAD
W2-16D
1.2m x 1.2m

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

ROAD WORK
XXX FT.
W8-1D
1.2m x 1.2m
(DISTANCE TO NEAREST 100 FT.)

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

YIELD AHEAD
W2-16D
1.2m x 1.2m

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

ROAD WORK
XXX FT.
W8-1D
1.2m x 1.2m
(DISTANCE TO NEAREST 100 FT.)

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

YIELD AHEAD
W2-16D
1.2m x 1.2m

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

ROAD WORK
XXX FT.
W8-1D
1.2m x 1.2m
(DISTANCE TO NEAREST 100 FT.)

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

YIELD AHEAD
W2-16D
1.2m x 1.2m

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

ROAD WORK
XXX FT.
W8-1D
1.2m x 1.2m
(DISTANCE TO NEAREST 100 FT.)

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

YIELD AHEAD
W2-16D
1.2m x 1.2m

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

ROAD WORK
XXX FT.
W8-1D
1.2m x 1.2m
(DISTANCE TO NEAREST 100 FT.)

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

YIELD AHEAD
W2-16D
1.2m x 1.2m

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

ROAD WORK
XXX FT.
W8-1D
1.2m x 1.2m
(DISTANCE TO NEAREST 100 FT.)

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

YIELD AHEAD
W2-16D
1.2m x 1.2m

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

ROAD WORK
XXX FT.
W8-1D
1.2m x 1.2m
(DISTANCE TO NEAREST 100 FT.)

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

YIELD AHEAD
W2-16D
1.2m x 1.2m

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

ROAD WORK
XXX FT.
W8-1D
1.2m x 1.2m
(DISTANCE TO NEAREST 100 FT.)

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

YIELD AHEAD
W2-16D
1.2m x 1.2m

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
W8-8D
1.2m x 1.2m

EXIT
XXX
G5-3X
1.5m x 1.1m

ROAD WORK
XXX FT.
W8-1D
1.2m x 1.2m
(DISTANCE TO NEAREST 100 FT.)

LEFT LANE CLOSED
500 FT.
W8-7D
1.2m x 1.2m

RIGHT LANE CLOSED
500 FT.
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1.2m x 1.2m

EXIT
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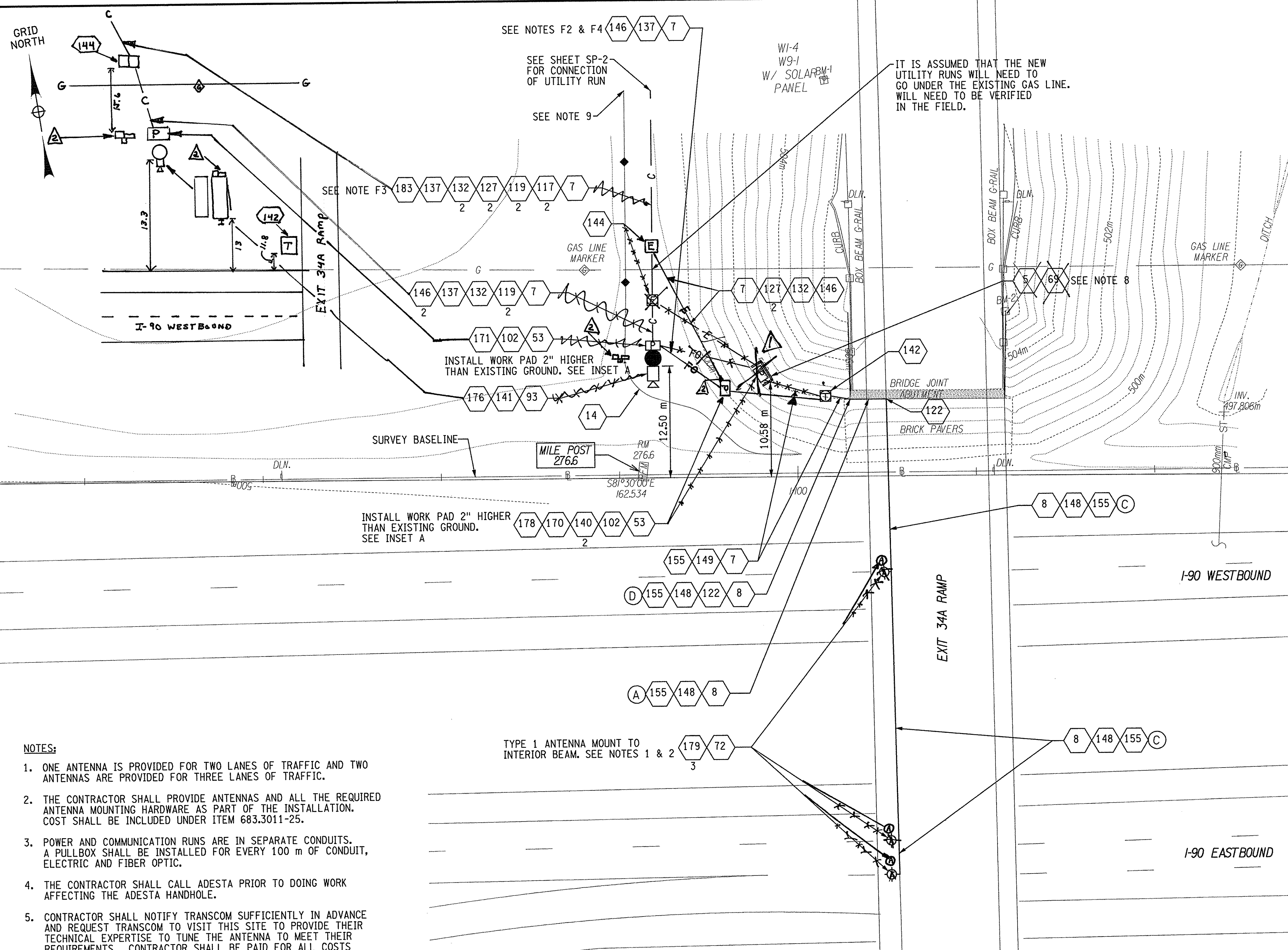
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Project: NY_Highway_Design
Node: BALASCOP-SP1

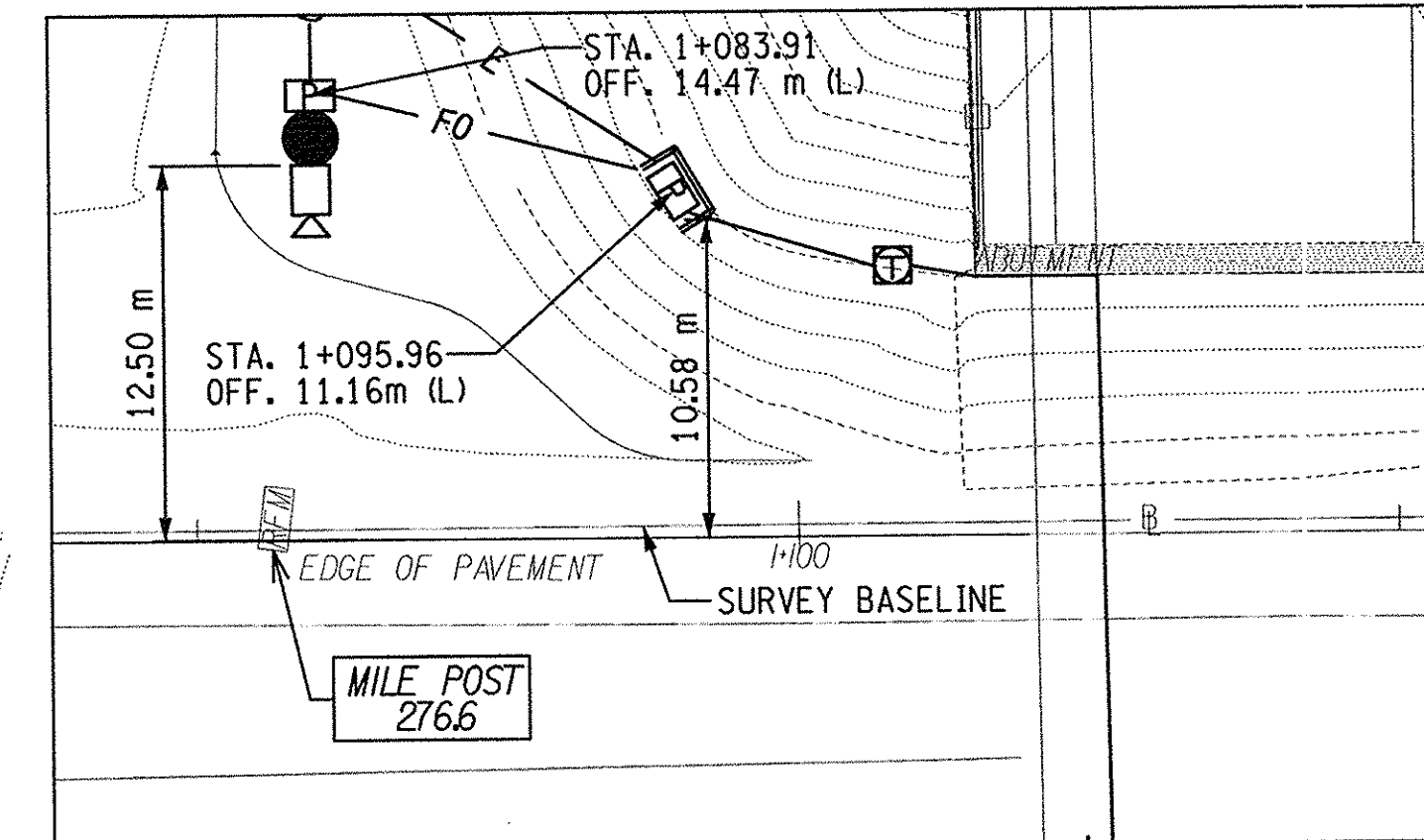
P. BALASCO
J. JOHNS
RECEIVED BY:
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CONCLUSIONS

IN CHARGE OF:



IT IS ASSUMED THAT THE NEW
UTILITY RUNS WILL NEED TO
GO UNDER THE EXISTING GAS LINE.
WILL NEED TO BE VERIFIED
IN THE FIELD.



INSET A-CABINET LOCATION

- NOTES:

1. ONE ANTENNA IS PROVIDED FOR TWO LANES OF TRAFFIC AND TWO ANTENNAS ARE PROVIDED FOR THREE LANES OF TRAFFIC.
2. 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.
3. POWER AND COMMUNICATION RUNS ARE IN SEPARATE CONDUITS. A PULLBOX SHALL BE INSTALLED FOR EVERY 100 m OF CONDUIT, ELECTRIC AND FIBER OPTIC.
4. THE CONTRACTOR SHALL CALL ADESTA PRIOR TO DOING WORK AFFECTING THE ADESTA HANDHOLE.
5. 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.
6. 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.
7. REFER TO GENERAL NOTE G7 FOR ELECTRICAL CODE COMPLIANCE.
8. DAYLIGHT UNDERDRAIN FOR POSITIVE DRAINAGE. INSTALL SELECT GRANULAR FILL, TYPE B, WHERE DIRECTED BY ENGINEER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING THE SILT FENCE AT 3 m OFFSET FROM THE TOE OF SLOPE WHERE EXCAVATION CONTINUES.

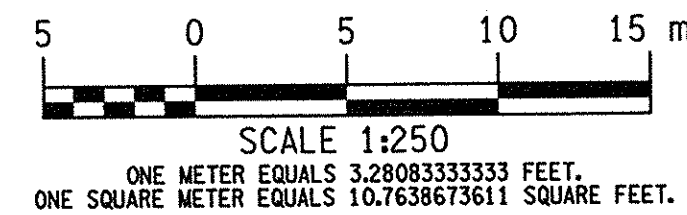
TYPE 1 ANTENNA MOUNT TO
INTERIOR BEAM. SEE NOTES 1 & 2

FIBER NOTES:

- F1. ADESTA PERSONNEL SHALL BE ON-SITE TO MONITOR ALL WORK RELATING TO THE THRUWAY MAINLINE FIBER AT ALL TIMES.
- F2. INSTALL NEW 6 STRAND FIBER OPTIC CABLE R IN THE PROPOSED CONDUIT FROM THE TRANSMIT CABINET TX-7 TO THE CCTV CABINET C-10.
- F3. 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).
- F4. TERMINATE ALL FIBERS OF CABLE Q AND CABLE R USING SC CONNECTORS.
- F5. TO COMPLETE THIS CIRCUIT, FIBERS #1 & 2 (CABLE Q) WILL NEED TO BE SPLICED AT ADFSTA HH 10-79 AT MP 276.8, EXIT 34A (SEE SHEET SP-2).

CONDUIT NOTES:





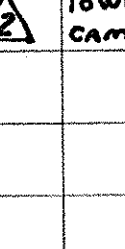
- ☐ (A) CONDUIT INSTALLED ON ABUTMENT/WINGWALLS
- ☐ (B) CONDUIT INSTALLED ON FACE OF PIERCAP
- ☐ (C) CONDUIT INSTALLED ON SUPERSTRUCTURE
- ☐ (D) CONDUIT INSTALLED VERTICALLY ON ABUTMENT/WINGWALL/PIER COLUMN WITH JUNCTION BOX AT TOP OF CONDUIT.

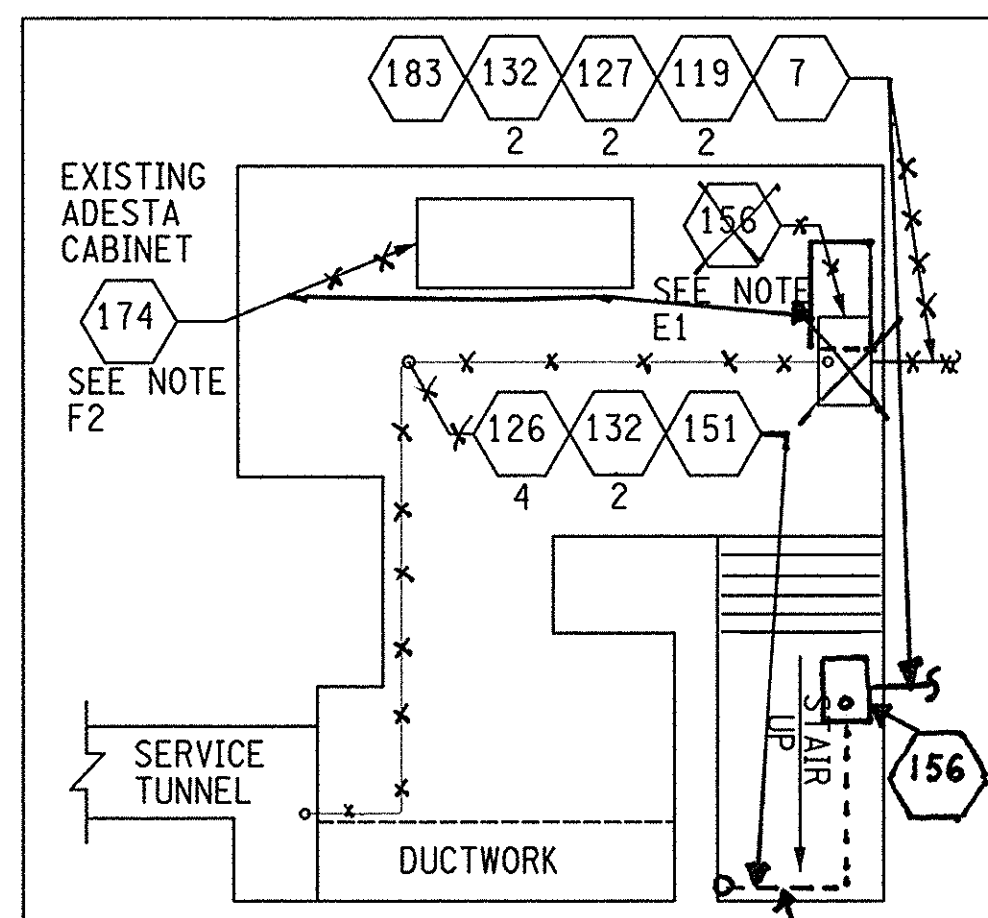


STV
Incorporated

As Built Revisions

NOTE:
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

	Deleted segmental wall		6/6/00
	POWER RETROFIT CAMERA / TRANSMIT		6/6/00
DATE	DESCRIPTION	BY	SIGN.
REVIEWS			
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		

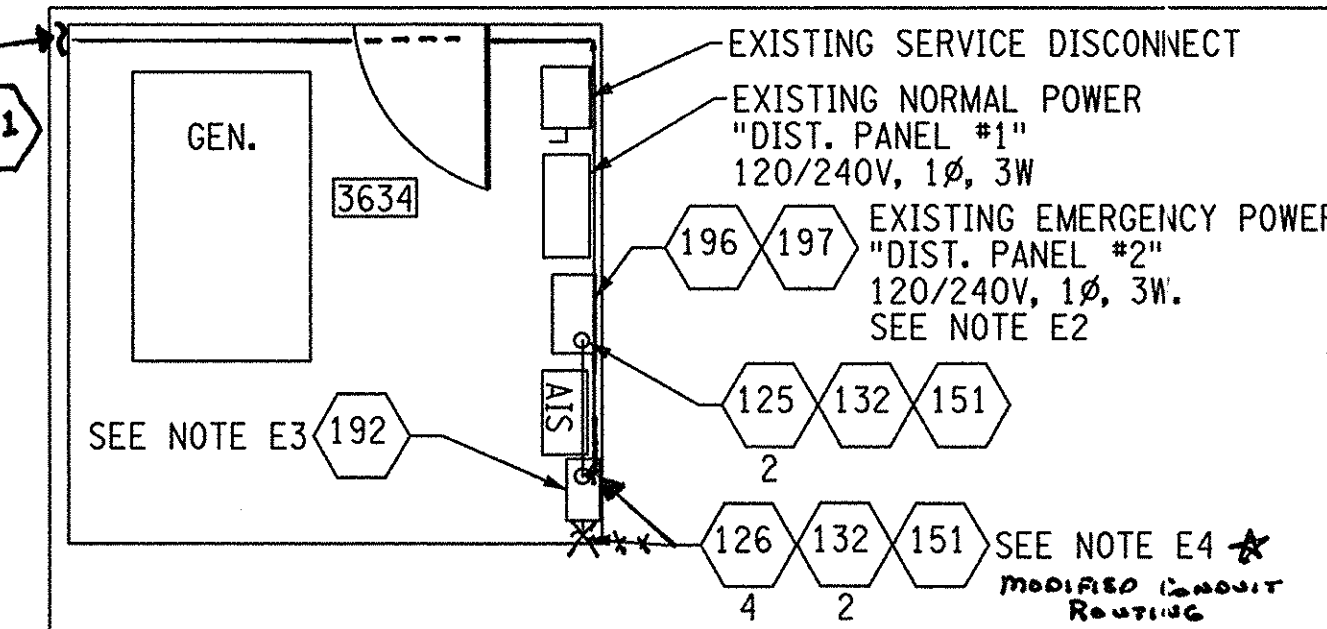
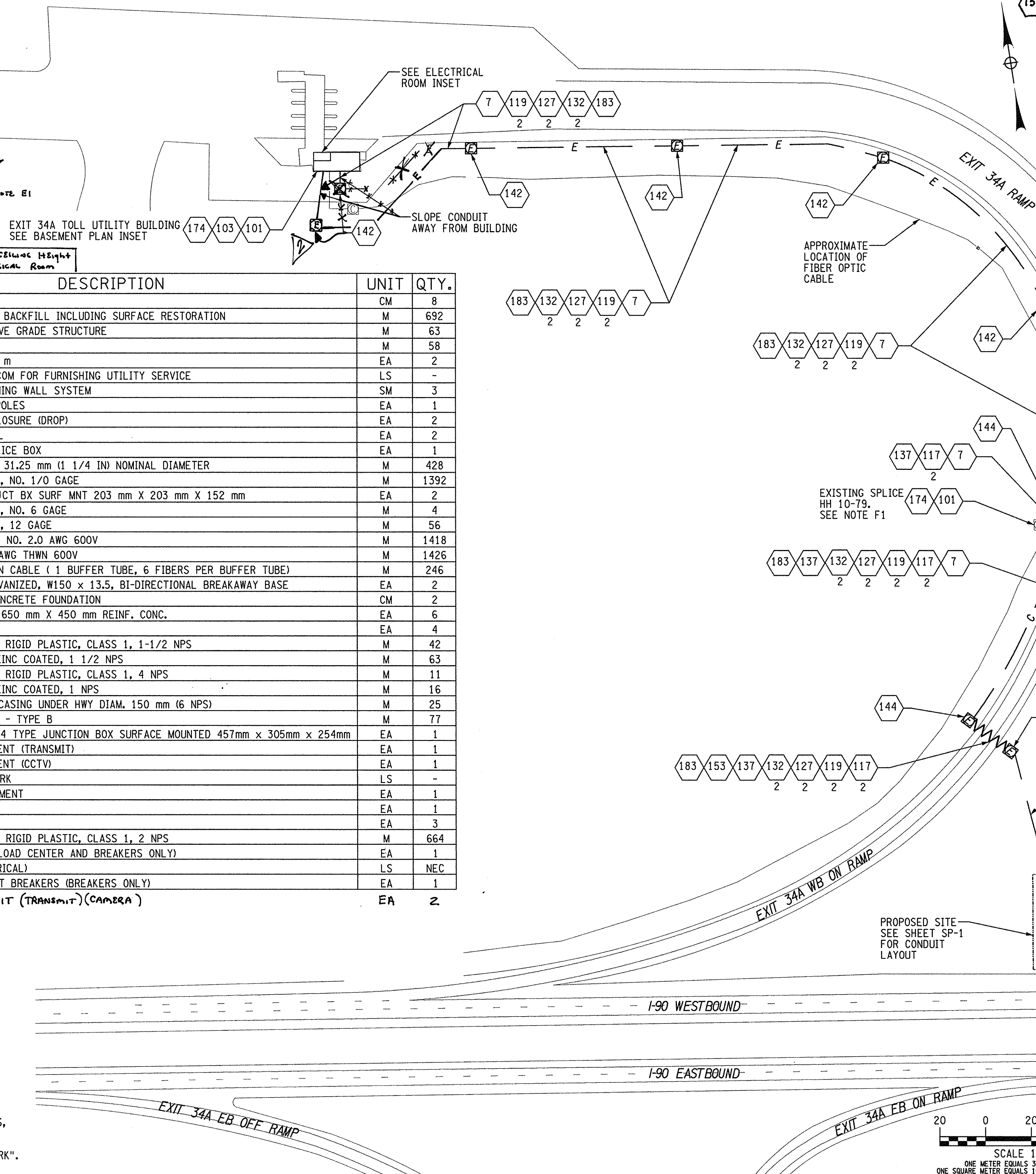


TUB BASEMENT PLAN

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

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".




TUB ELECTRICAL ROOM

ELECTRICAL NOTES:

- E1. MOUNT JUNCTION BOX 1.5 m AFF. TRANSITION CCTV AND ANTENNA EQUIPMENT POWER FEEDERS IN CLO, 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:
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UNLESS OTHERWISE NOTED.

<h1 style="text-align: center;">As Built Revisions</h1>			
6/30/10	add ref. # 198 Power retransmit	Placem	1/6
6/30/10	Conduit Location at TAB	Placem	1/8
	TAB Layout	Placem	1/3
DATE	DESCRIPTION	BY	SY
<h2 style="text-align: center;">REVISIONS</h2>			
<p>NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209</p>			
<p>TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.</p>			
<p>LOCATION OF PROJECT I-90 MP 276.58 EB, DEWITT, NY</p>			
<p>TITLE OF DRAWING CCTV C-10 & TRANSMIT TX-7 PROPOSED SITE PLAN</p>			
		<p>CONTRACT NUMBER: TAS 08-321</p>	
		<p>DATE: JULY 30, 200</p>	
		<p>DRAWING NUMBER: SP-2</p>	

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Date: 7/29/2008 2:58:03 PM

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

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



20°
60'

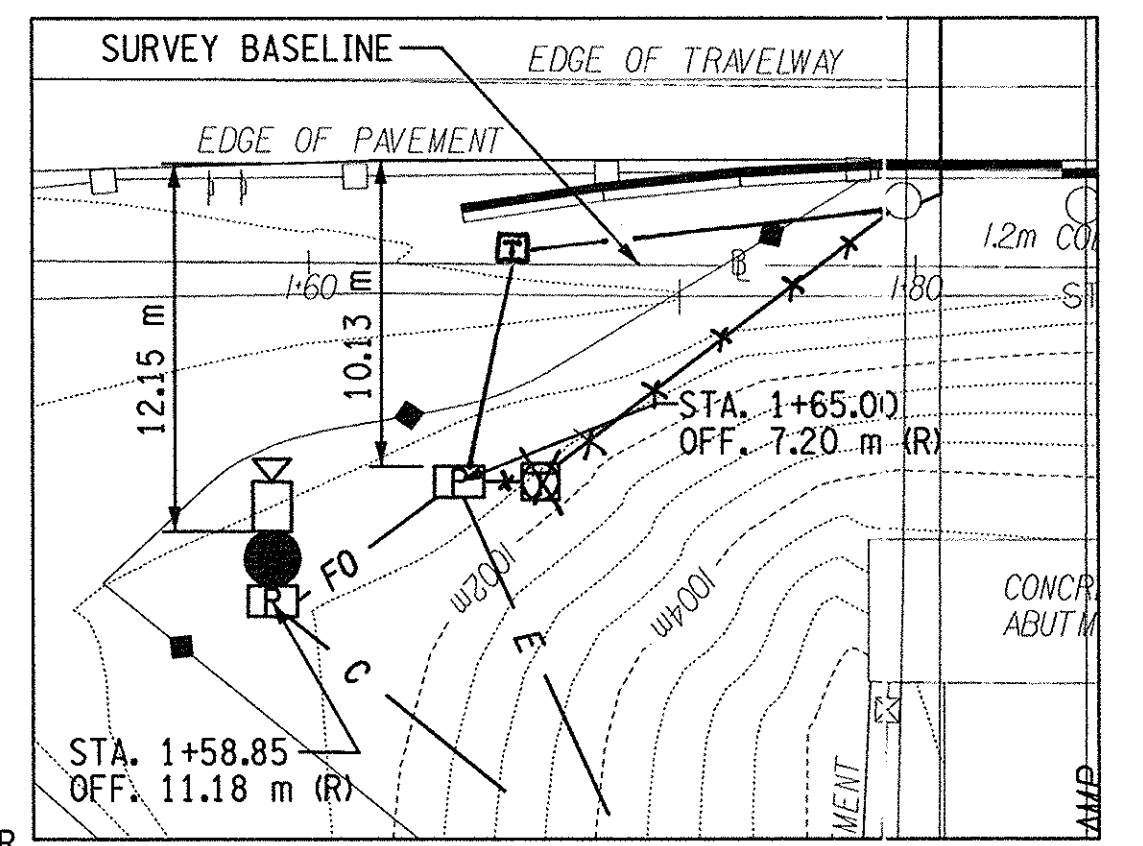
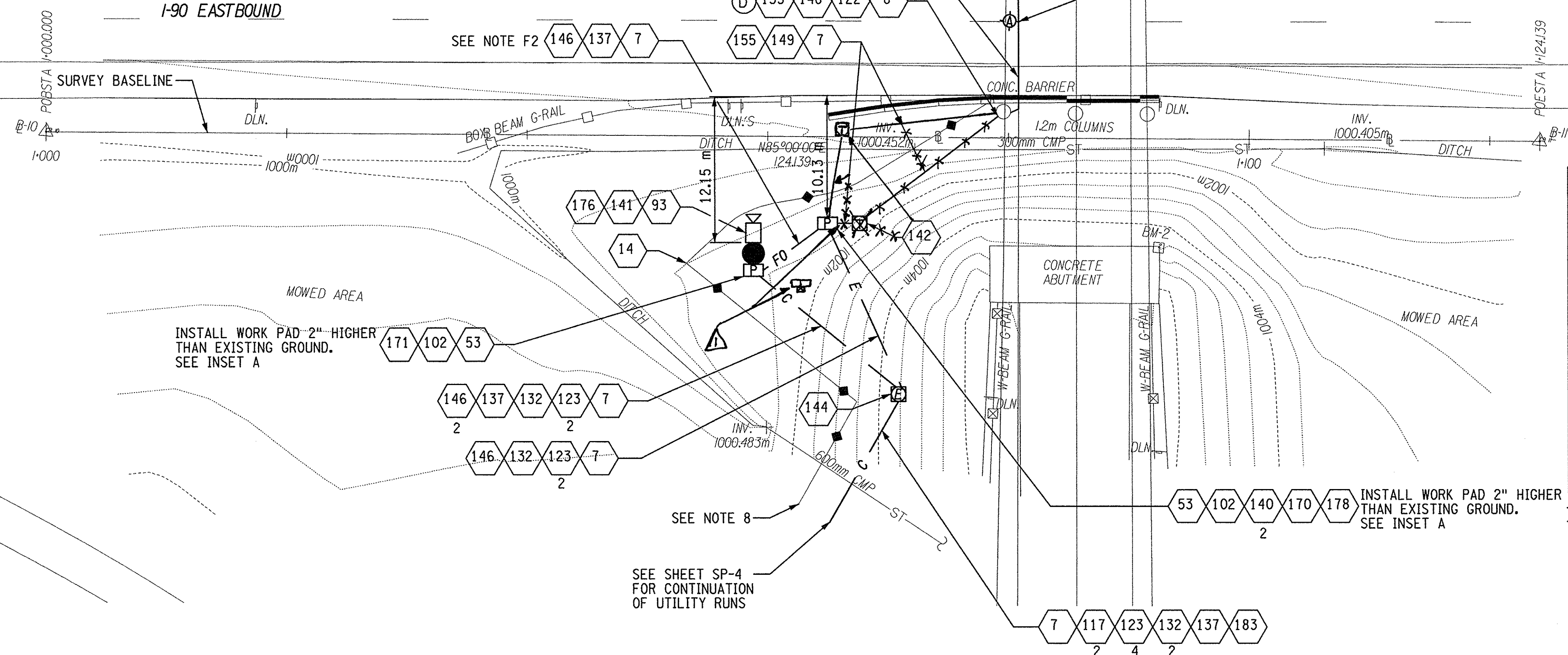
TYPE 1 ANTENNA MOUNT TO
INTERIOR BEAM. SEE NOTES 1 & 2

EXIT 35 WB ON RAMP

I-90 WESTBOUND

I-90 EASTBOUND

EXIT 35 RAMP



INSET A-CABINET LOCATION

NOTE:
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UNLESS OTHERWISE NOTED.

As Built
Revisions

NOTES:

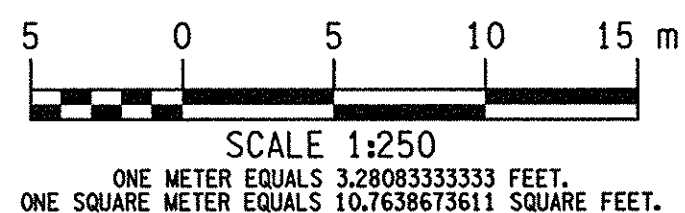
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- THE CONTRACTOR SHALL PROVIDE ANTENNAS AND ALL THE REQUIRED ANTENNA MOUNTING HARDWARE AS PART OF THE INSTALLATION. COST SHALL BE INCLUDED UNDER ITEM 683.3011-25.
- POWER AND COMMUNICATION RUNS ARE IN SEPARATE CONDUITS AND PULLBOXES.
- THE CONTRACTOR 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 T IN THE PROPOSED CONDUIT FROM THE TRANSMIT CABINET TX-8 TO THE CCTV CABINET C-11.
- TERMINATE ALL 6 FIBERS USING SC CONNECTORS.
- INSTALL NEW 6 STRAND FIBER OPTIC CABLE S IN THE PROPOSED CONDUIT FROM THE CCTV CABINET C-11, THROUGH THE EXISTING SPLICE HH 10-86B AND INTO THE TUB AT EXIT 35 THROUGH THE EXISTING EMPTY THRUWAY CONDUIT (SEE SHEET SP-4 FOR LOCATION OF THE SPLICE HH 10-86B).

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.



DATE	DESCRIPTION	BY	CHK
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-3			

Plotted By: pbalasco
Design File: Up1920013861r-transportation\des\gn0\NO\04\Drawings\SP-04_C-11 & TX-08_SYR.plt
Plot Date: 9/29/2008 2:58:05 PM

Discipline: NYSDOT
Project: NY_Highway_Design
Model: BALASCO-SP1

File J. JOHNS
Checked By: P. BALASCO
Drafted By: M. CONLEY
Designed By: J. JOHNS
In Charge Of:

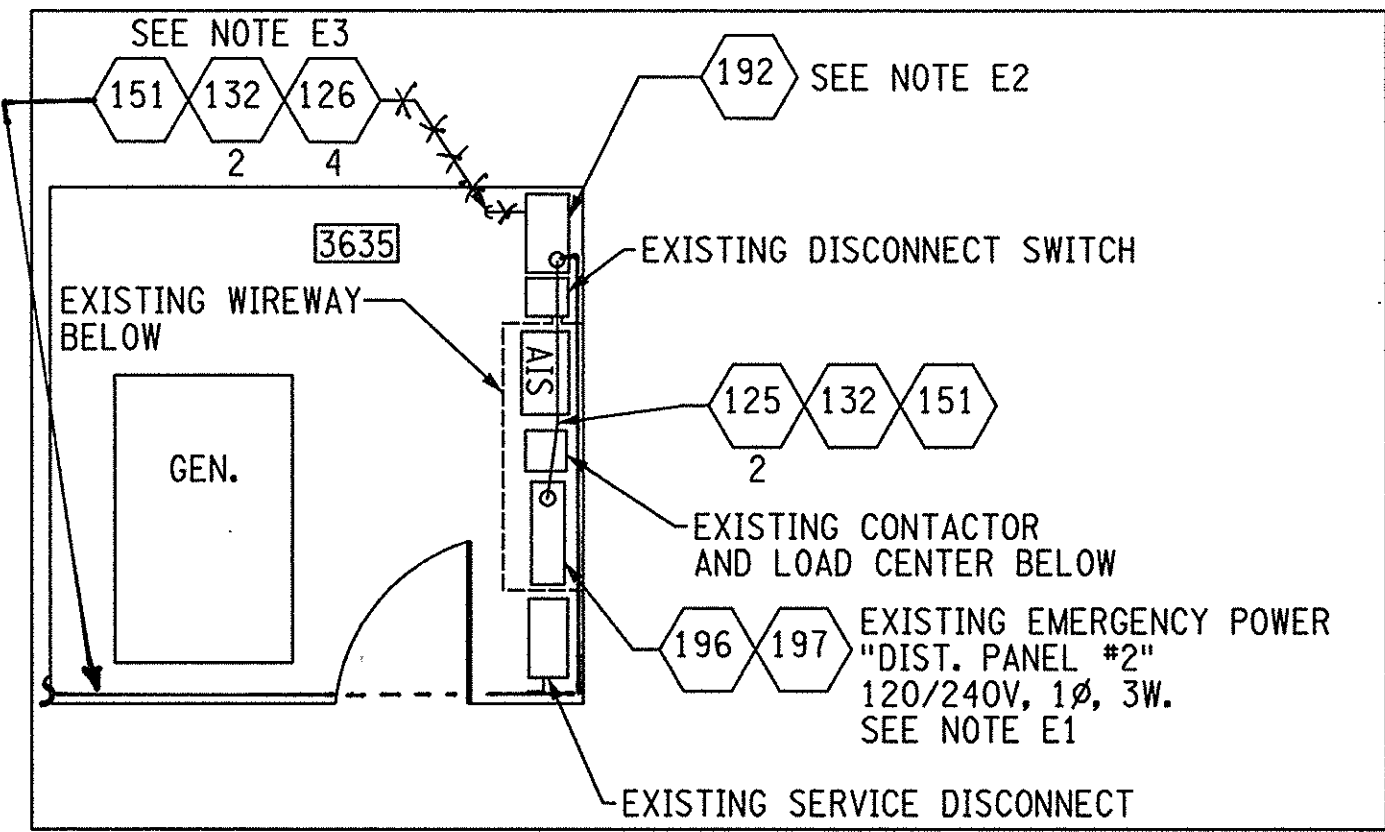
REF. #	ITEM #	DESCRIPTION	UNIT	QTY.
7	206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	M	323
8	206.0312-25	CONDUIT INSTALL ON ABOVE GRADE STRUCTURE	M	38
14	209.13	SILT FENCE - TEMPORARY	M	55
53	608.010101-25	WORK PAD 1.83 m x 1.22 m	EA	2
72	660.610011-25	REIMBURSEMENT TO TRANSCOM 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:

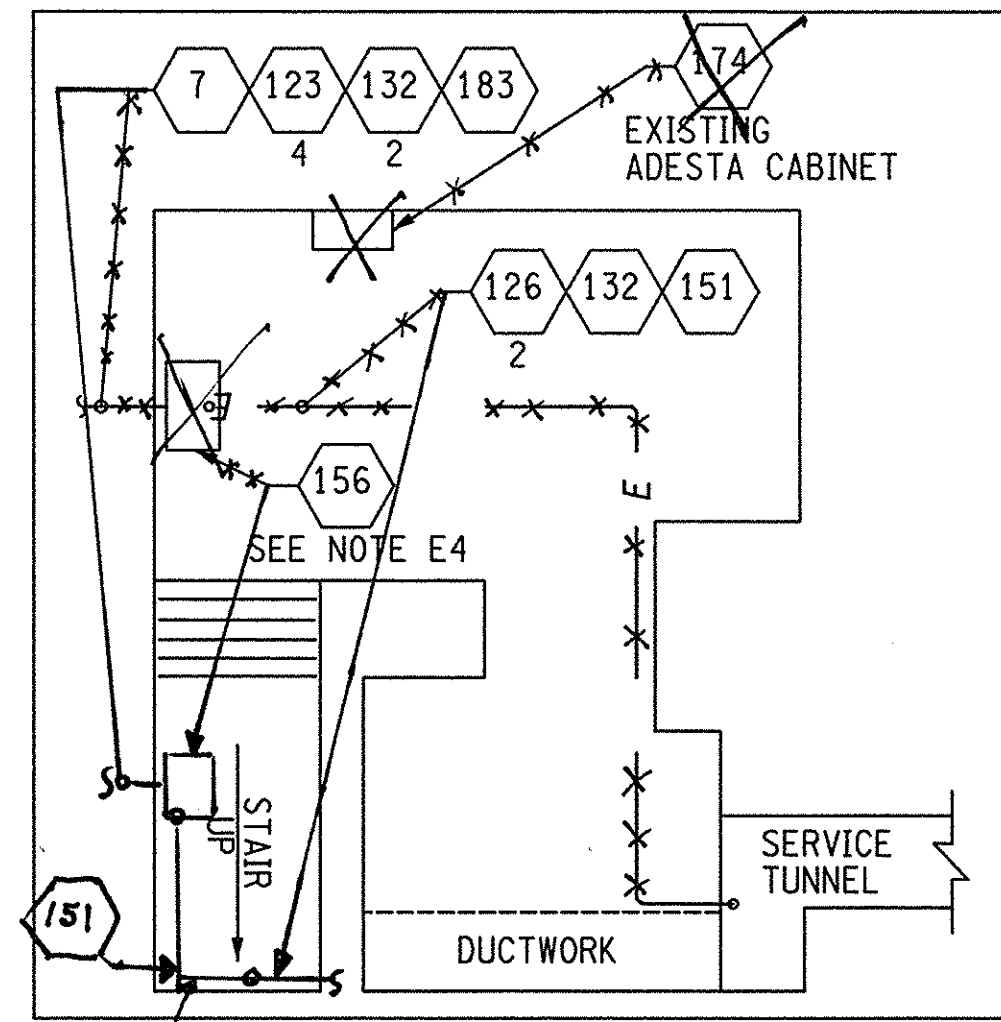
1. INSTALL NEW HANDHOLE HH 10-86C AT THE LOCATION SHOWN.
2. INSTALL NEW 6 STRAND CABLE HH 10-86B TO THE BASEMENT OF THE TUB AT EXIT 35.
3. INSTALL NEW 6 STRAND FIBER OPTIC CABLE S IN THE PROPOSED CONDUIT FROM THE CCTV CABINET THROUGH THE PROPOSED HH 10-86C AND INTO THE TUB THROUGH THE EXISTING EMPTY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

ELECTRICAL NOTES:

1. 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.
2. 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.
3. CCTV AND ANTENNA EQUIPMENT POWER FEEDERS - ROUTE CONDUIT INTO SERVICE CHASE BELOW. SEE BASEMENT PLAN FOR CONTINUATION.
4. 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.



TUB ELECTRICAL ROOM



TUB BASEMENT PLAN

EXISTING HANDHOLE 10-86B

SYRACUSE DIV. HEADQUARTERS BUILDING

EXIT 35 TOLL PLAZA BUILDING
SEE BASEMENT PLAN INSET

EXISTING HAND HOLE

SEE ELECTRICAL ROOM INSET

SLOPE CONDUIT AWAY FROM BUILDING

20 0 20 40 60 m
SCALE 1:1000
ONE METER EQUALS 3.2808333333 FEET.
ONE SQUARE METER EQUALS 10.7638673611 SQUARE FEET.

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

EXISTING HAND HOLE
NOT SHOWN LOCATION
4/24/10 TUB BASEMENT PLAN

DATE	DESCRIPTION	BY	SYD.
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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

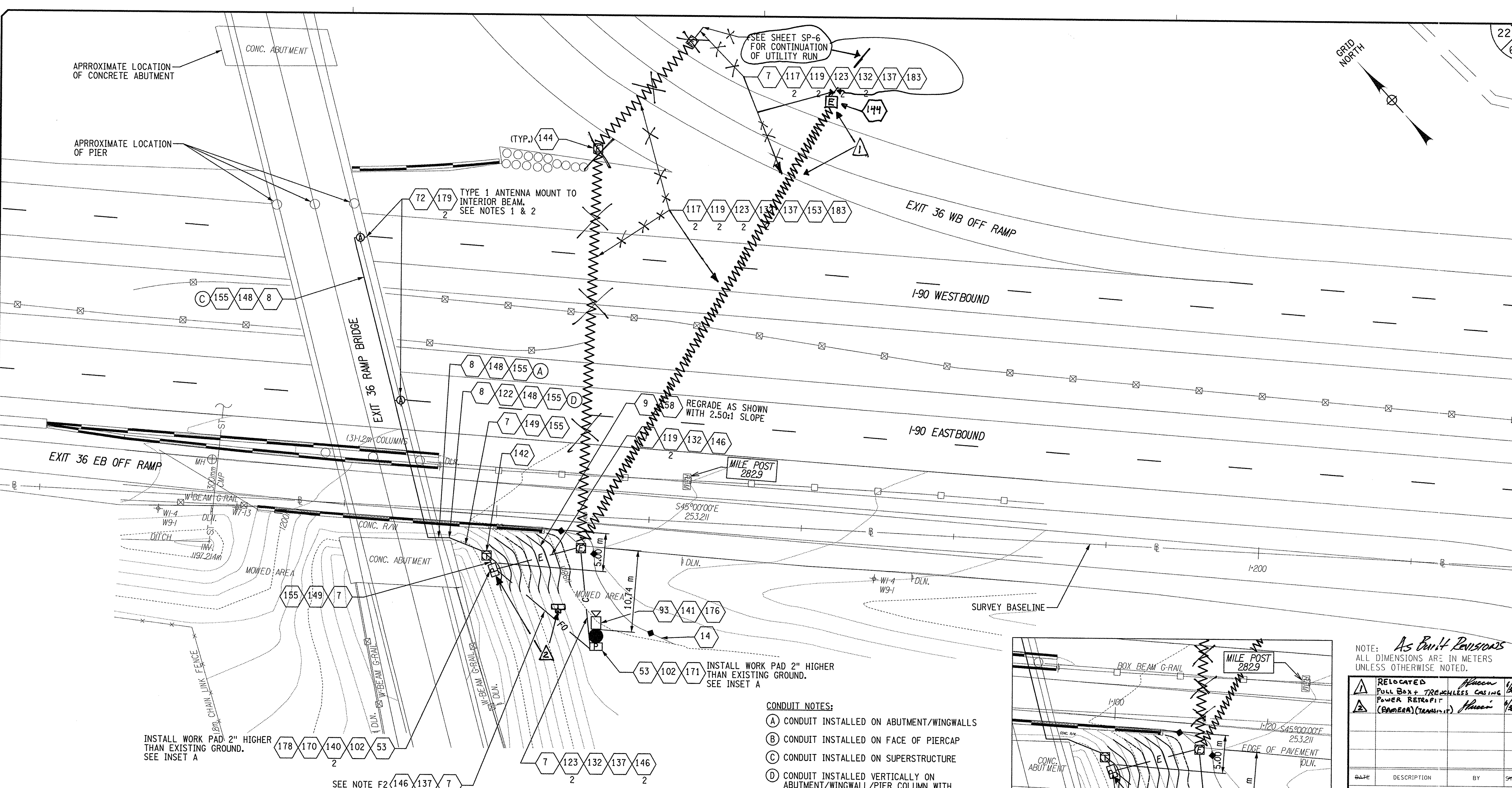
CONTRACT NUMBER:
TAS 08-321

DATE:
JULY 30, 2008

DRAWING NUMBER:
SP-4



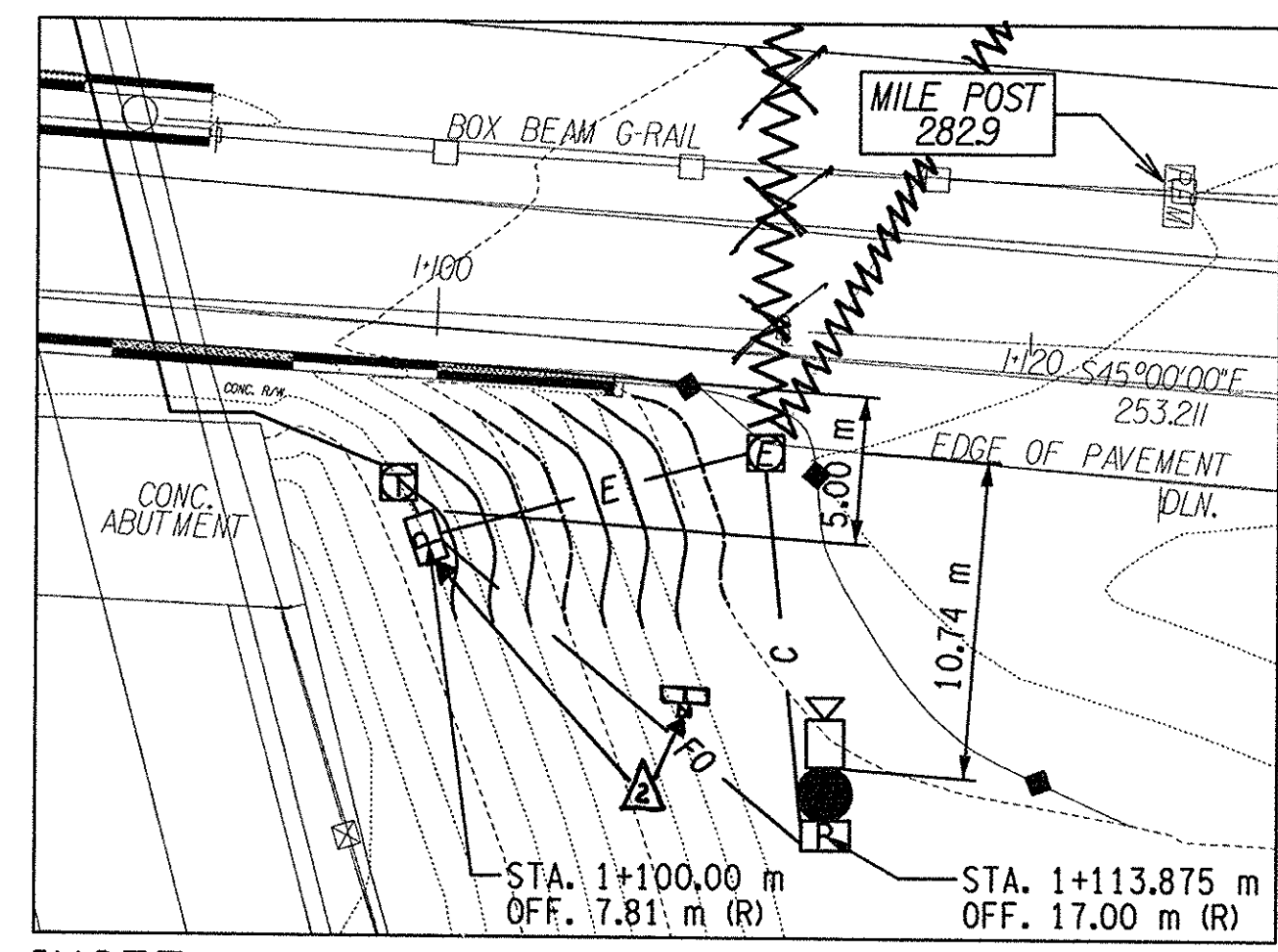
Discipline: NYSDOT
Project: NY Highway Design
Node: BALASCO-SF1
Plotted By: padasco
Design File: 9/29/2008
Plotted: 2:58:09 PM
J. JOHNS
P. BALASCO
M. CONLEY
J. JOHNS
IN CHARGE OF:
DESIGNED BY:
DRAFTED BY:
CHECKED BY:
FILE



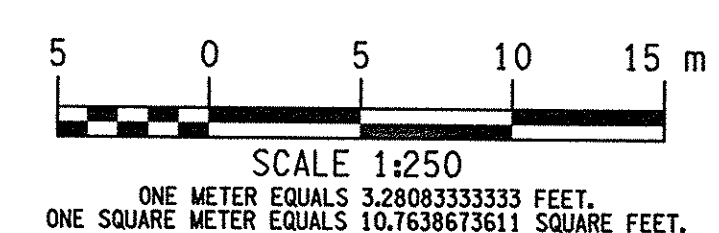
- NOTES:**
- ONE ANTENNA IS PROVIDED FOR TWO LANES OF TRAFFIC AND TWO ANTENNAS ARE PROVIDED FOR THREE LANES OF TRAFFIC.
 - THE CONTRACTOR SHALL PROVIDE ANTENNAS AND ALL THE REQUIRED ANTENNA MOUNTING HARDWARE AS PART OF THE INSTALLATION. COST SHALL BE INCLUDED UNDER ITEM 683.3011-25.
 - POWER AND COMMUNICATION 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.

- 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.
- 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.



INSET A-CABINET LOCATION



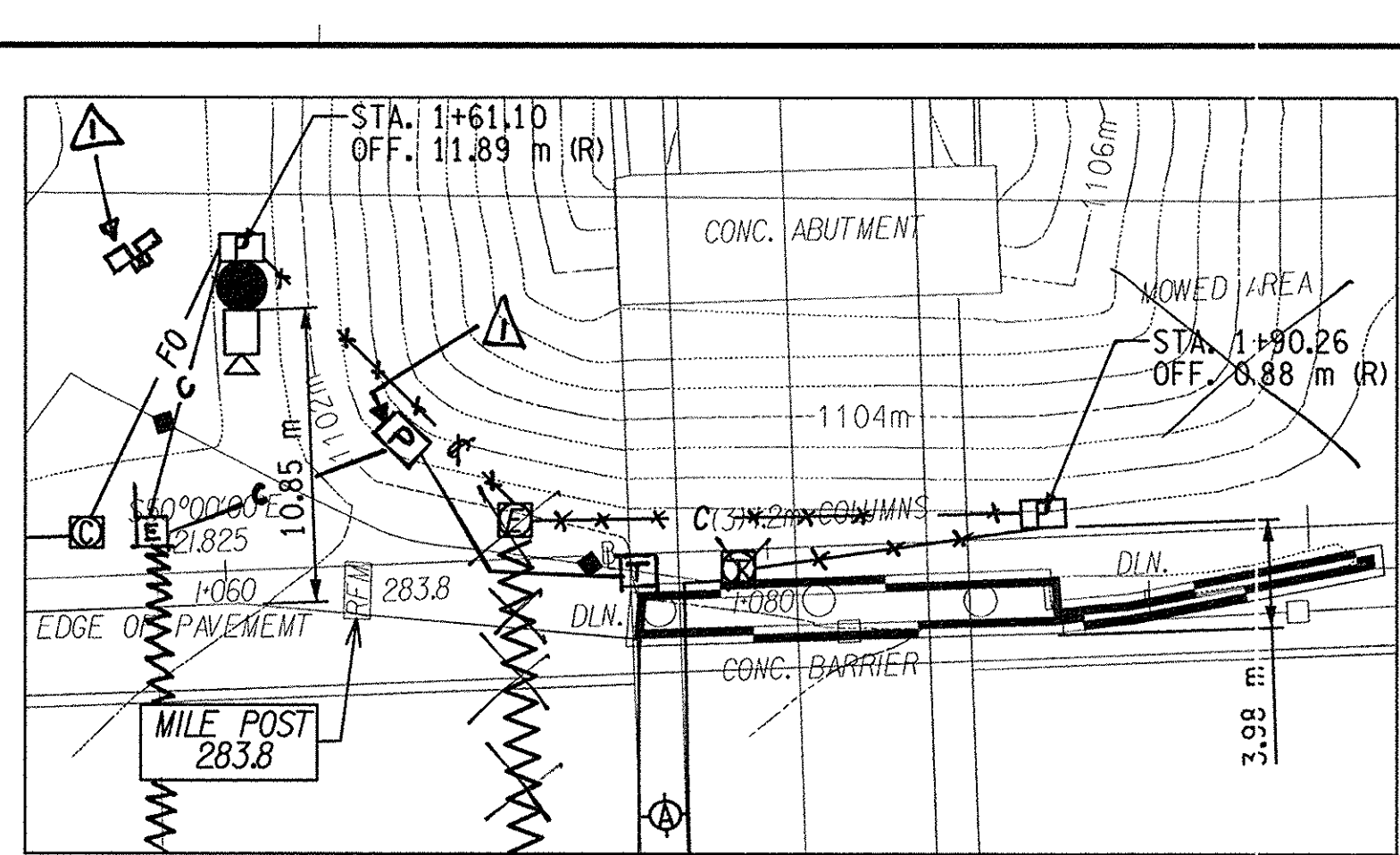
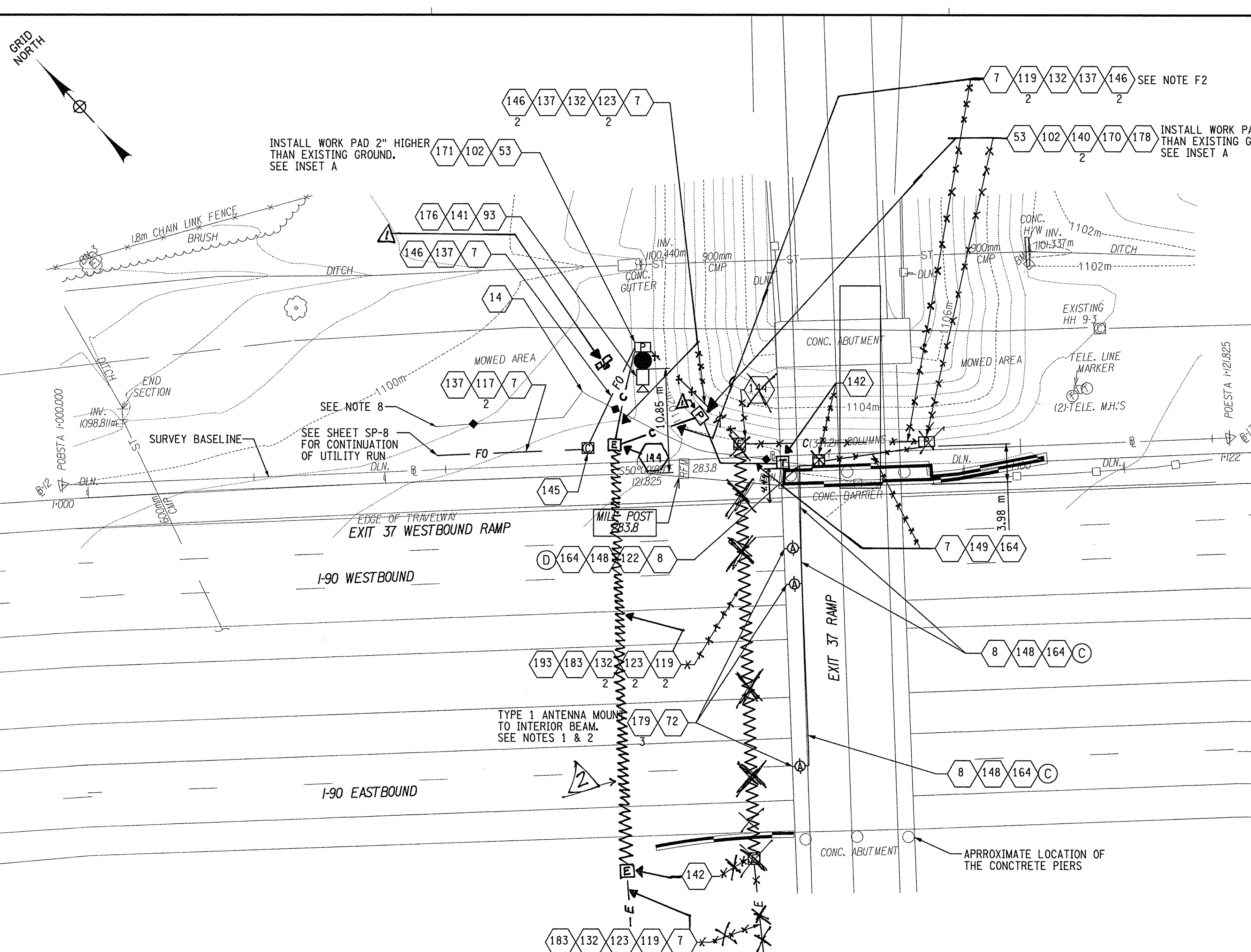
As Built Revisions
NOTE: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

RELOCATED PULL BOX + TRACERLESS CABLE POWER RETROFIT (CAMERA) (TRANSMIT)	1/2/08	1/2/08
	1/2/08	1/2/08
REVISIONS		
DATE	DESCRIPTION	BY
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		



Plotted By: pbalasco
Design File: 258117.PLT
9/29/2008
Discipline: NYSDOT
Project: NY_Thruway_Design
Model: BALASCO-SP1
J. JOHNS
P. BALASCO
M. CONLEY
J. JOHNS
IN CHARGE OF:

File
J. JOHNS
Checked By:
P. BALASCO
Drafted By:
M. CONLEY
Designed By:
J. JOHNS
IN CHARGE OF:

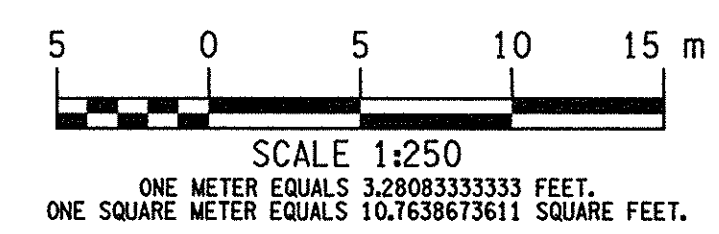


INSET A-CABINET LOCATION

- 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.
 - 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:**
- 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.



NOTE:
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

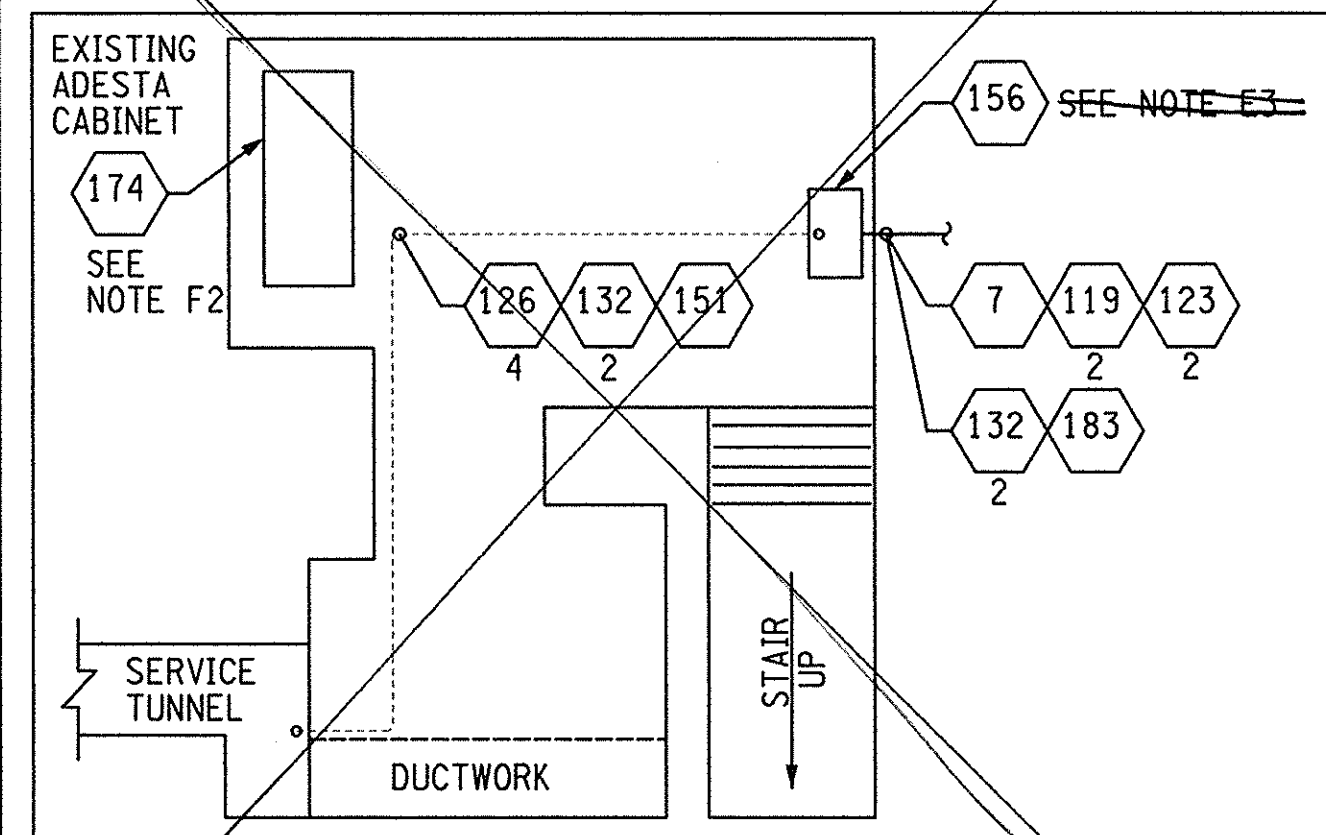


As Built Revisions			
4/10/10	POWER RETROFIT CABLES-TRANSMIT CASINO LOCATION	Planned Planned	A A
DATE	DESCRIPTION	BY	SYMBOL
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. 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			

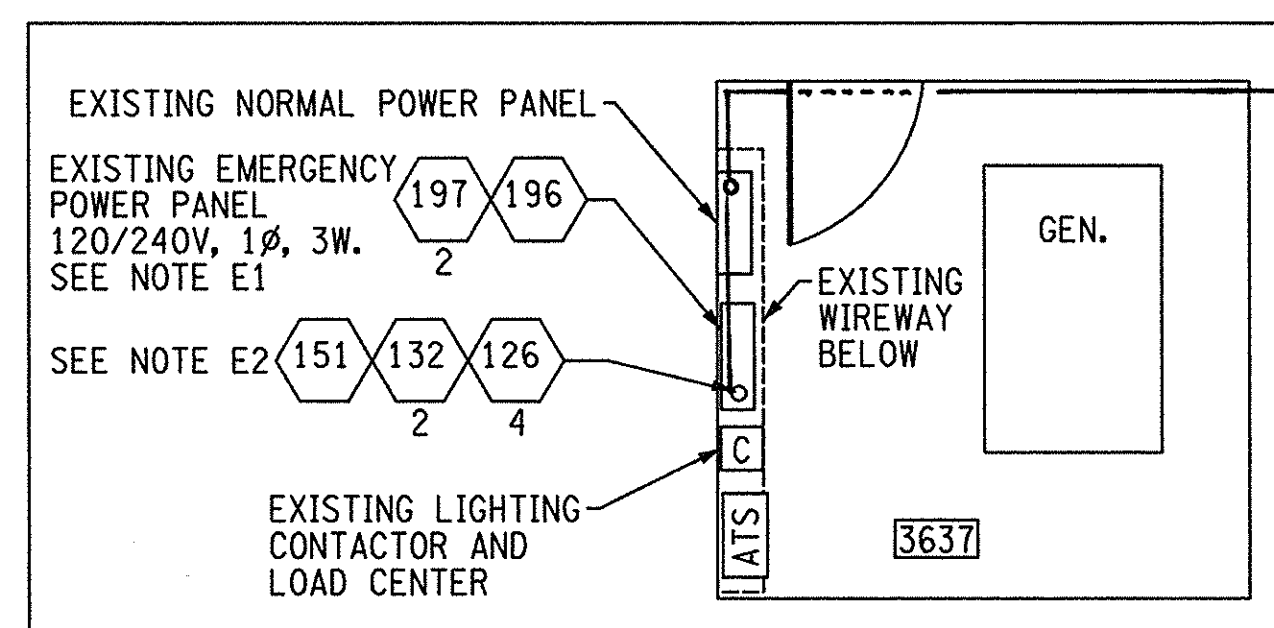
REF. #	ITEM #	DESCRIPTION	UNIT	QTY.
7	206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	M	613
8	206.0312-25	CONDUIT INSTALL ON ABOVE GRADE STRUCTURE	M	36
14	209.13	SILT FENCE - TEMPORARY	M	42
53	608.010101-25	WORK PAD 1.83 m x 1.22 m	EA	2
72	660.610011-25	REIMBURSEMENT TO TRANSCOM 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	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	426
119	670.7010	SINGLE CONDUCTOR CABLE, NO. 1/0 GAGE	M	920
122	670.410915-11	GALV STL NEMA-4 TYPE JCT BX SURF MNT 203mm X 203mm X 152mm	EA	1
123	670.7002	SINGLE CONDUCTOR CABLE, 2 GAGE	M	914
126	670.7007	SINGLE CONDUCTOR CABLE, 12 GAGE	M	48
132	670.750601-25	GROUND WIRE 1/C NO. 6 AWG THWN 600V	M	938
137	651.990831-25	FIBER OPTIC DISTRIBUTION CABLE (1 BUFFER TUBE, 6 FIBERS PER BUFFER TUBE)	M	256
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	5
144	680.5109-25	PULLBOX - B	EA	1
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	102
148	680.520105	CONDUIT, METAL STEEL, ZINC COATED, 1 1/2 NPS	M	36
149	680.520510	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 4 NPS	M	12
151	680.520103	CONDUIT, METAL STEEL, ZINC COATED, 1 NPS	M	12
156	670.410912-11	GALVANIZED STEEL NEMA-4 TYPE JUNCTION BOX SURFACE MOUNTED 457mm x 305mm x 254mm	EA	1
164	680.7751-25	TRANSMIT COAXIAL CABLE - TYPE A	M	51
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	425
193	650.1004	TRENCHLESS INSTALLATION OF CASING UNDER HWY DIAM. 100 mm (4 NPS)	M	71
196	690.040001-05	SPECIALTY WORK (ELECTRICAL)	LS	NEC
197	657.0010-39	PANELBOARDS AND CIRCUIT BREAKERS (BREAKERS ONLY)	EA	2

FIBER NOTES:

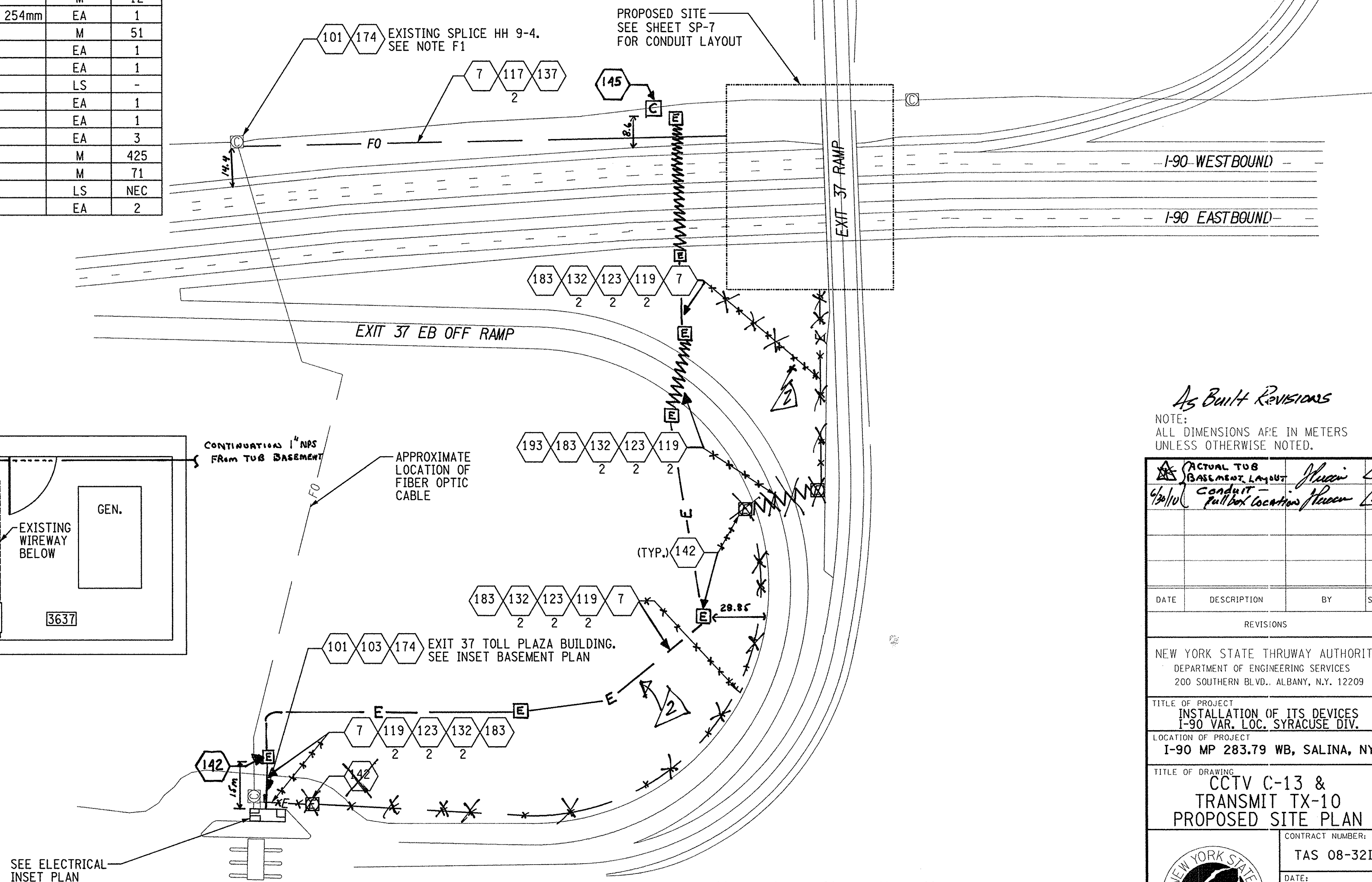
- F1. AT ADESTA SPLICE HH 9-4, SPLICE THE NEW FIBERS #1 & 2 (CABLE Y) TO EXISTING FEEDER FIBERS #5 & 6.
- F2. TERMINATE FEEDER FIBERS #5 & 6 USING SC CONNECTORS AT THE FIBER DISTRIBUTION PANEL INSIDE THE EXISTING ADESTA CABINET IN THE EXIT 37 TOLL UTILITY BUILDING. THIS WORK TO BE PAID UNDER THE PAY ITEM 651.990836/25 "MISCELLANEOUS FIBER WORK".



TUB ~~BASEMENT~~ PLAN



TUB ELECTRICAL ROOM



ELECTRICAL NOTES:

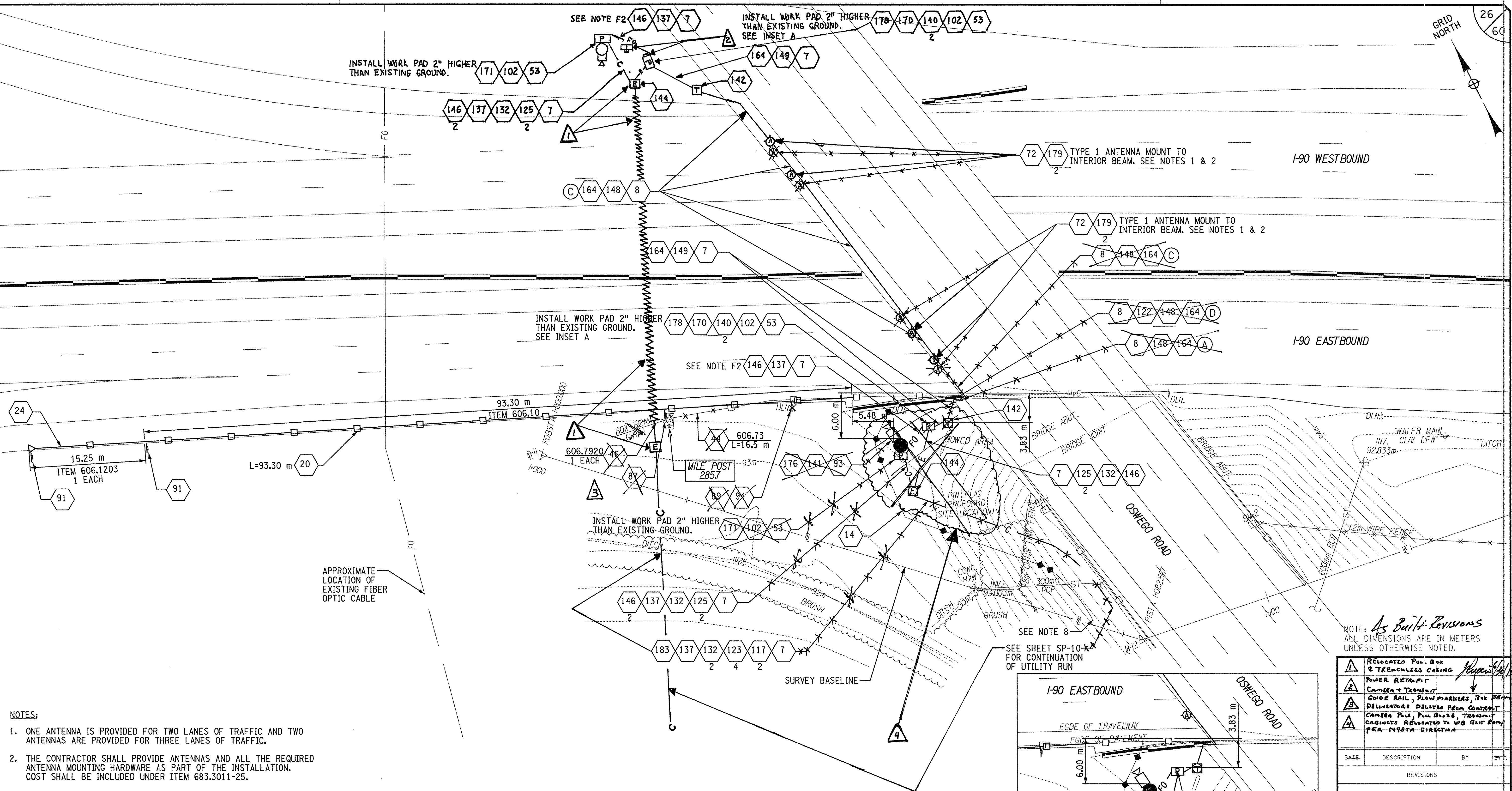
- E1. PROVIDE (2) 1P-20A BRANCH CIRCUIT BREAKERS COMPATIBLE WITH EXISTING SQUARE D TYPE QO LOAD CENTER. ALL ELECTRICAL WORK NOT COVERED UNDER WIRING AND CONDUITS WILL BE PAID UNDER THE ITEM 690.040001-05.
- E2. CCTV AND ANTENNA EQUIPMENT POWER FEEDERS - ROUTE CONDUIT VIA WIREWAY INTO SERVICE CHASE BELOW. SEE BASEMENT PLAN FOR CONTINUATION.
- E3. MOUNT JUNCTION BOX 1.5 m AFF. TRANSITION CCTV AND ANTENNA EQUIPMENT POWER FEEDERS INSIDE BOX. PROVIDE TERMINAL STRIP WITH LUGS SIZED AS REQUIRED FOR CABLES INDICATED.

As Built REVISIONS

NOTE:
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

	ACTUAL TUB BASEMENT LAYOUT	Jensen	
6/20/90	CORRECT full box location	Jensen	
DATE	DESCRIPTION	BY	S
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY			
DEPARTMENT OF ENGINEERING SERVICES			
200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
<hr/>			
TITLE OF PROJECT			
INSTALLATION OF ITS DEVICES			
I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT			
I-90 MP 283.79 WB, SALINA, NY			
<hr/>			
TITLE OF DRAWING			
CCTV C-13 & TRANSMIT TX-10 PROPOSED SITE PLAN			
	CONTRACT NUMBER:		
	TAS 08-321		
	DATE:		
	JULY 30, 20		
	DRAWING NUMBER:		
	SP-8		





NOTES:

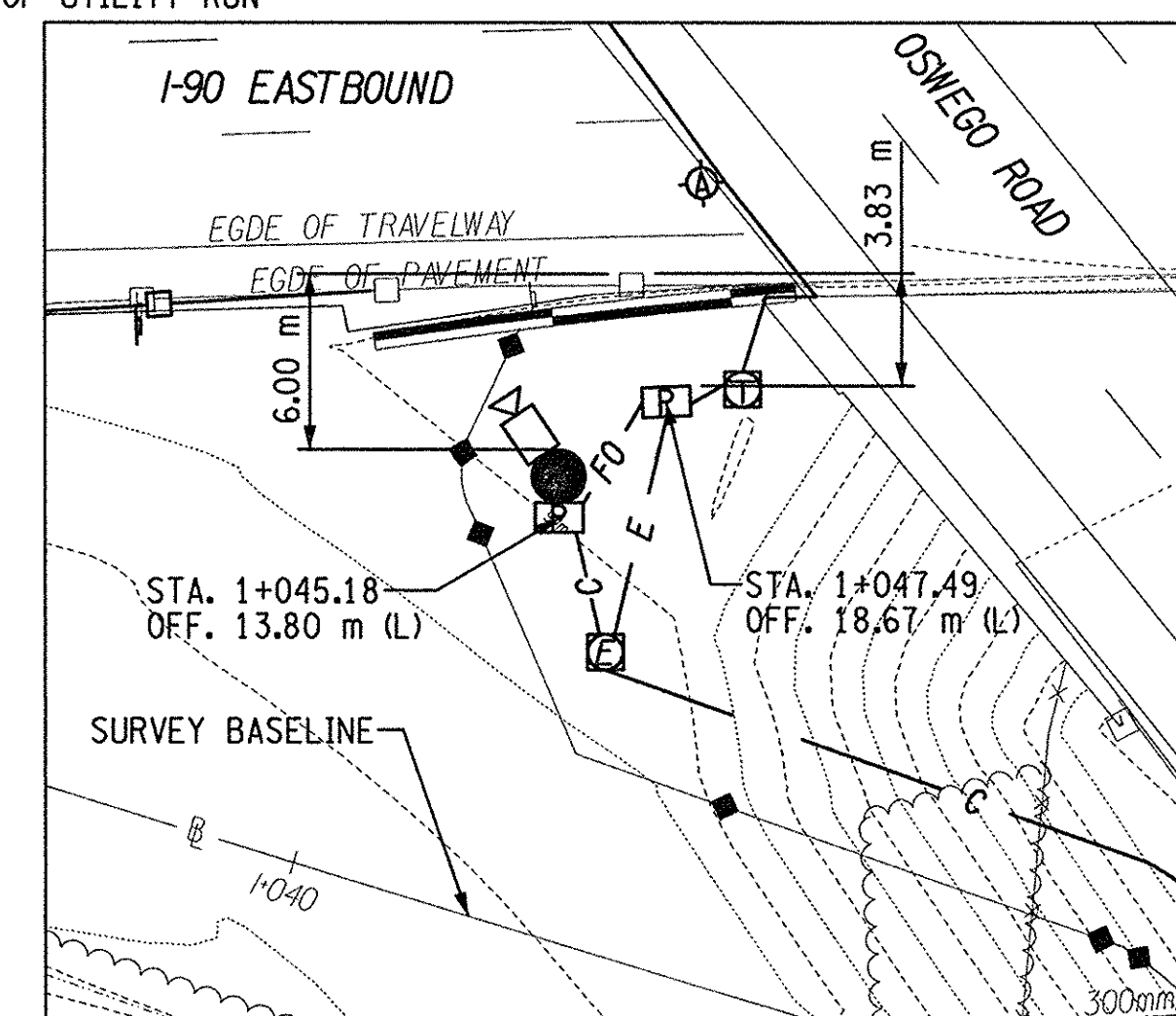
1. ONE ANTENNA IS PROVIDED FOR TWO LANES OF TRAFFIC. AND TWO ANTENNAS ARE PROVIDED FOR THREE LANES OF TRAFFIC.
2. THE CONTRACTOR SHALL PROVIDE ANTENNAS AND ALL THE REQUIRED ANTENNA MOUNTING HARDWARE AS PART OF THE INSTALLATION. COST SHALL BE INCLUDED UNDER ITEM 683.3011-25.
3. POWER AND COMMUNICATION RUNS ARE IN SEPARATE CONDUITS. A PULLBOX SHALL BE INSTALLED FOR EVERY 100 m OF CONDUIT, ELECTRIC AND FIBER OPTIC.
4. THE CONTRACTOR SHALL CALL ADESTA PRIOR TO DOING WORK AFFECTING THE ADESTA HANDHOLE.
5. 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.
6. 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.
7. REFER TO GENERAL NOTE G7 FOR ELECTRICAL CODE COMPLIANCE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING THE SILT FENCE AT 3 m OFFSET FROM THE TOE OF SLOPE WHERE EXCAVATION CONTINUES.

FIBER NOTES:

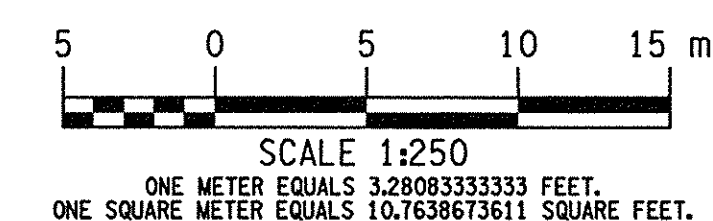
- F1. ADESTA PERSONNEL SHALL BE ON-SITE TO MONITOR ALL WORK RELATING TO THE THRUWAY MAINLINE FIBER AT ALL TIMES.
- F2. INSTALL NEW 6 STRAND FIBER OPTIC CABLE Z IN THE PROPOSED CONDUIT FROM THE TRANSMIT CABINET TX-11 TO THE CCTV CABINET C-14.
- F3. INSTALL NEW 6 STRAND FIBER OPTIC CABLE A1 IN THE PROPOSED 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).
- F4. TERMINATE ALL FIBERS OF CABLE Z AND CABLE A1 USING SC CONNECTORS.

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.



INSET A-CABINET LOCATION



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

<u>1</u>	RELOCATED POLL BOX & TREMCHLESS CASING	<i>Parker 6/21</i>
<u>2</u>	POWER RETRAFIT CAMERA & TRANSMIT	
<u>3</u>	GUIDE RAIL, PLAIN MARKERS, Box 85m DELIMITERs DELISTED FROM CONTRACT	
<u>4</u>	CAMERA POLE, PUL BOXES, TRANSMIT CASINGS RELOCATED TO WB EAST CAMP; PER NYSTA DIRECTION	

DATE	DESCRIPTION	BY	CHK.
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:	
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TAS 08-321

DATE:
JULY 30, 2008

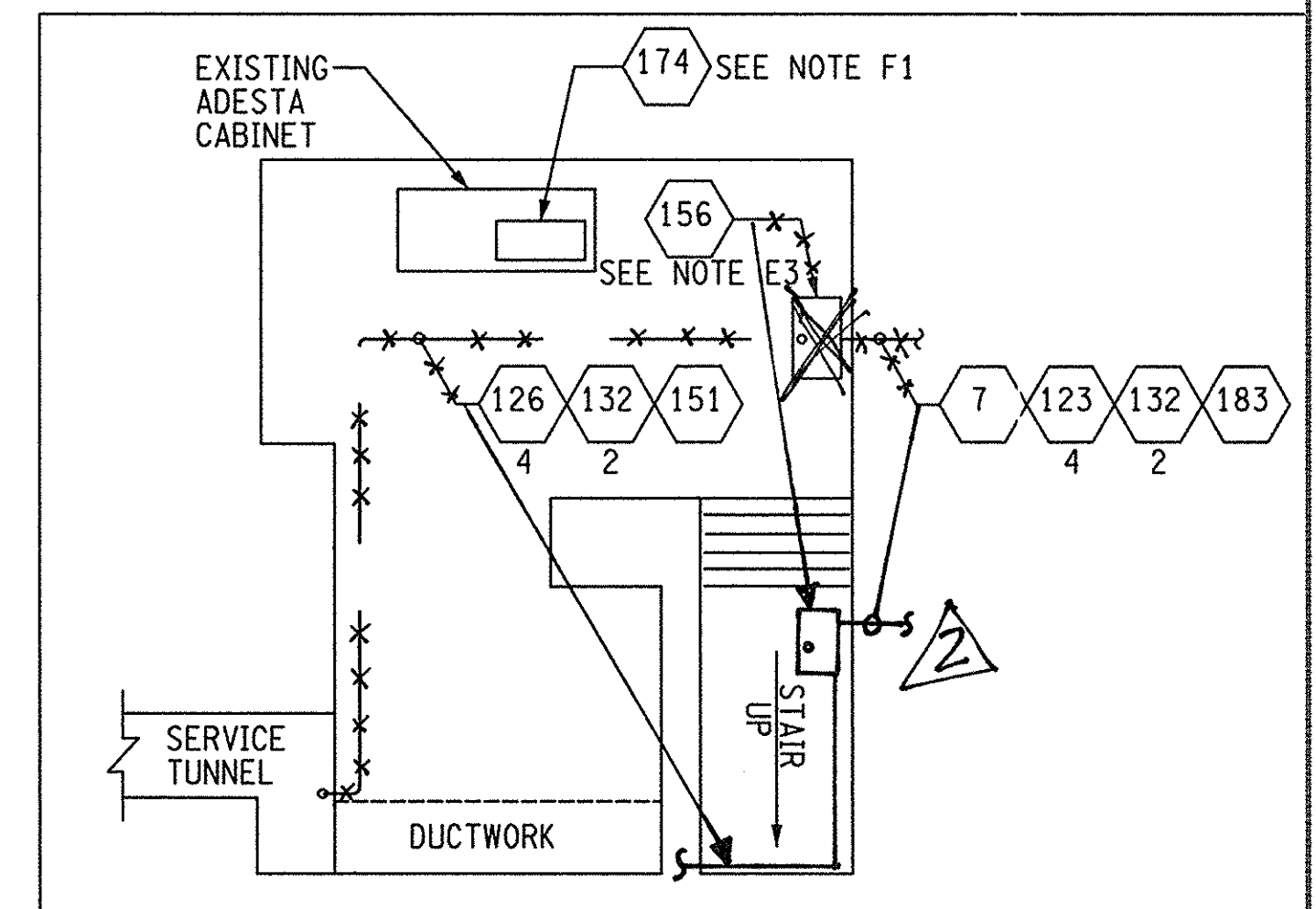
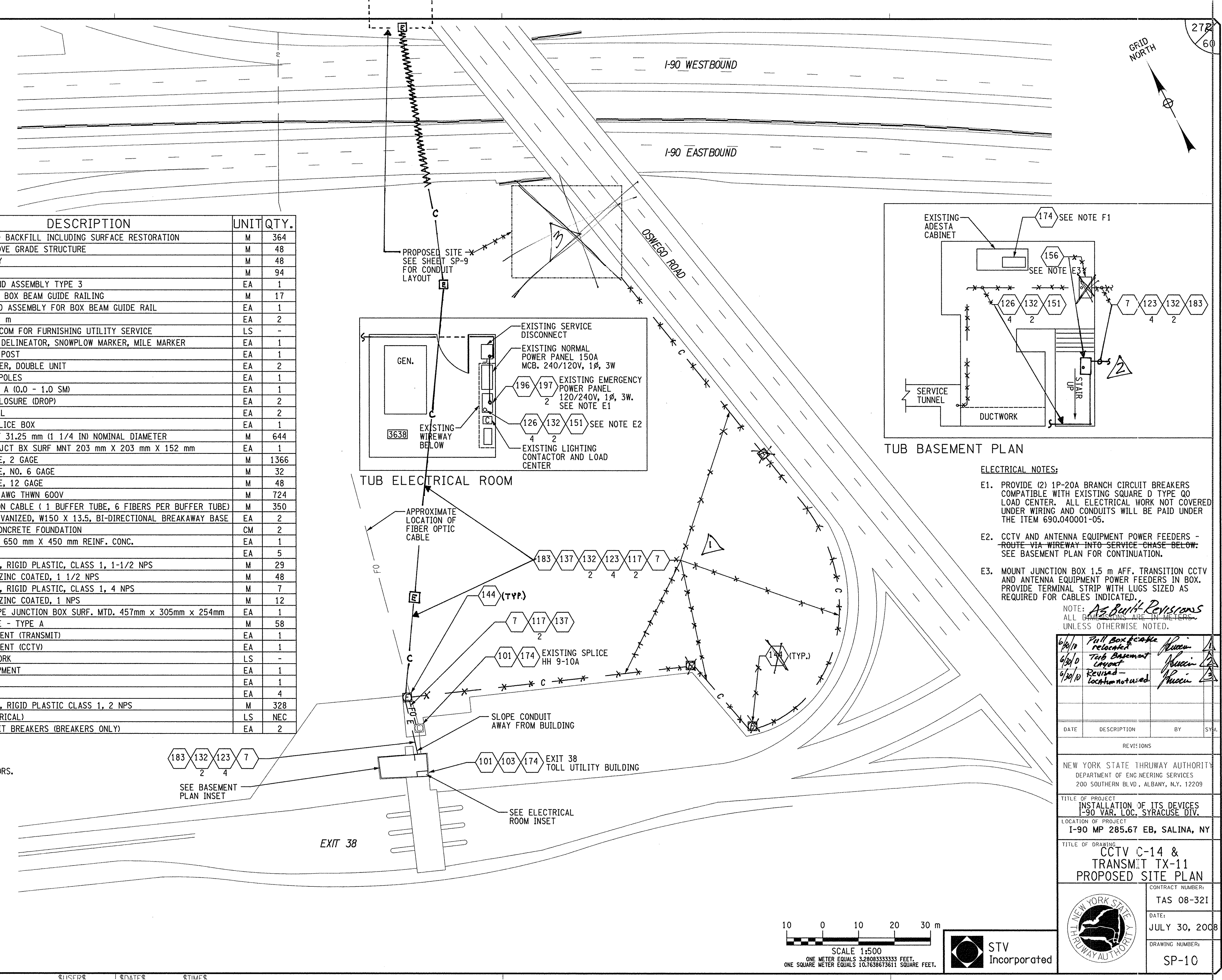
DRAWING NUMBER:	
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SP-9

Discipline: NYSDOT
Project: NY Highway Design
Model: BALASCO-SP1
Plotted By: pbalasco
Design File: 9/29/2008
Plot Date: 2:56:27 PM
J. JOHNS
P. BALASCO
M. CONLEY
J. JOHNS
IN CHARGE OF:

REF. #	ITEM #	DESCRIPTION	UNIT	QTY.
7	206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	M	364
8	206.0312-25	CONDUIT INSTALL ON ABOVE GRADE STRUCTURE	M	48
14	209.13	SILT FENCE - TEMPORARY	M	48
20	606.10	BOX BEAM GUIDE RAIL	M	94
24	606.1203	BOX BEAM GUIDE RAIL END ASSEMBLY TYPE 3	EA	1
44	606.73	REMOVING AND DISPOSING BOX BEAM GUIDE RAILING	M	17
46	606.7920	REMOVE AND DISPOSE END ASSEMBLY FOR BOX BEAM GUIDE RAIL	EA	1
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	-
87	646.1032--25	REMOVE & RESET EXIST. DELINEATOR, SNOWPLOW MARKER, MILE MARKER	EA	1
89	646.0603--25	INSTALL DELINEATOR ON POST	EA	1
91	646.0802--25	INSTALL SNOWPLOW MARKER, DOUBLE UNIT	EA	2
93	651.020015-25	CCTV CAMERA MOUNTING POLES	EA	1
94	647.01	REMOVAL OF SIGNS, SIZE A (0.0 - 1.0 SM)	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	644
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	1366
125	670.7004	SINGLE CONDUCTOR CABLE, NO. 6 GAGE	M	32
126	670.7007	SINGLE CONDUCTOR CABLE, 12 GAGE	M	48
132	670.750601-25	GROUND WIRE 1/C NO. 6 AWG THWN 600V	M	724
137	651.990831-25	FIBER OPTIC DISTRIBUTION CABLE (1 BUFFER TUBE, 6 FIBERS PER BUFFER TUBE)	M	350
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	1
144	680.5109-25	PULLBOX - B	EA	5
146	680.520505	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 1-1/2 NPS	M	29
148	680.520105	CONDUIT, METAL STEEL, ZINC COATED, 1 1/2 NPS	M	48
149	680.520510	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 4 NPS	M	7
151	680.520103	CONDUIT, METAL STEEL, ZINC COATED, 1 NPS	M	12
156	670.410912-11	GALV. STEEL NEMA-4 TYPE JUNCTION BOX SURF. MTD. 457mm x 305mm x 254mm	EA	1
164	680.7751-25	TRANSMIT COAXIAL CABLE - TYPE A	M	58
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	4
183	680.520506	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC CLASS 1, 2 NPS	M	328
196	690.040001-05	SPECIALITY WORK (ELECTRICAL)	LS	NEC
197	657.0010-39	PANELBOARDS AND CIRCUIT BREAKERS (BREAKERS ONLY)	EA	2

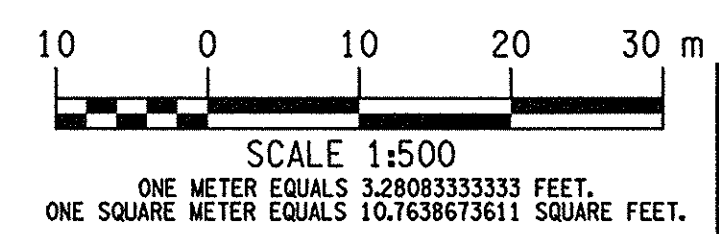
FIBER NOTES:
F1. TERMINATE ALL 6 FIBERS USING SC CONNECTORS.



- ELECTRICAL NOTES:
- E1. PROVIDE (2) 1P-20A BRANCH CIRCUIT BREAKERS 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.
 - E2. CCTV AND ANTENNA EQUIPMENT POWER FEEDERS - ROUTE VIA WIREWAY INTO SERVICE CHASE BELOW: SEE BASEMENT PLAN FOR CONTINUATION.
 - E3. 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 CABLES INDICATED.
- NOTE: *As Built Revisions*
ALL DIMENSIONS ARE IN METERS, UNLESS OTHERWISE NOTED.

6/2/10	Full Box for cable relocated	Phuc	1
6/2/10	Tub Basement Layout	Phuc	2
6/2/10	Revised location not used	Phuc	3

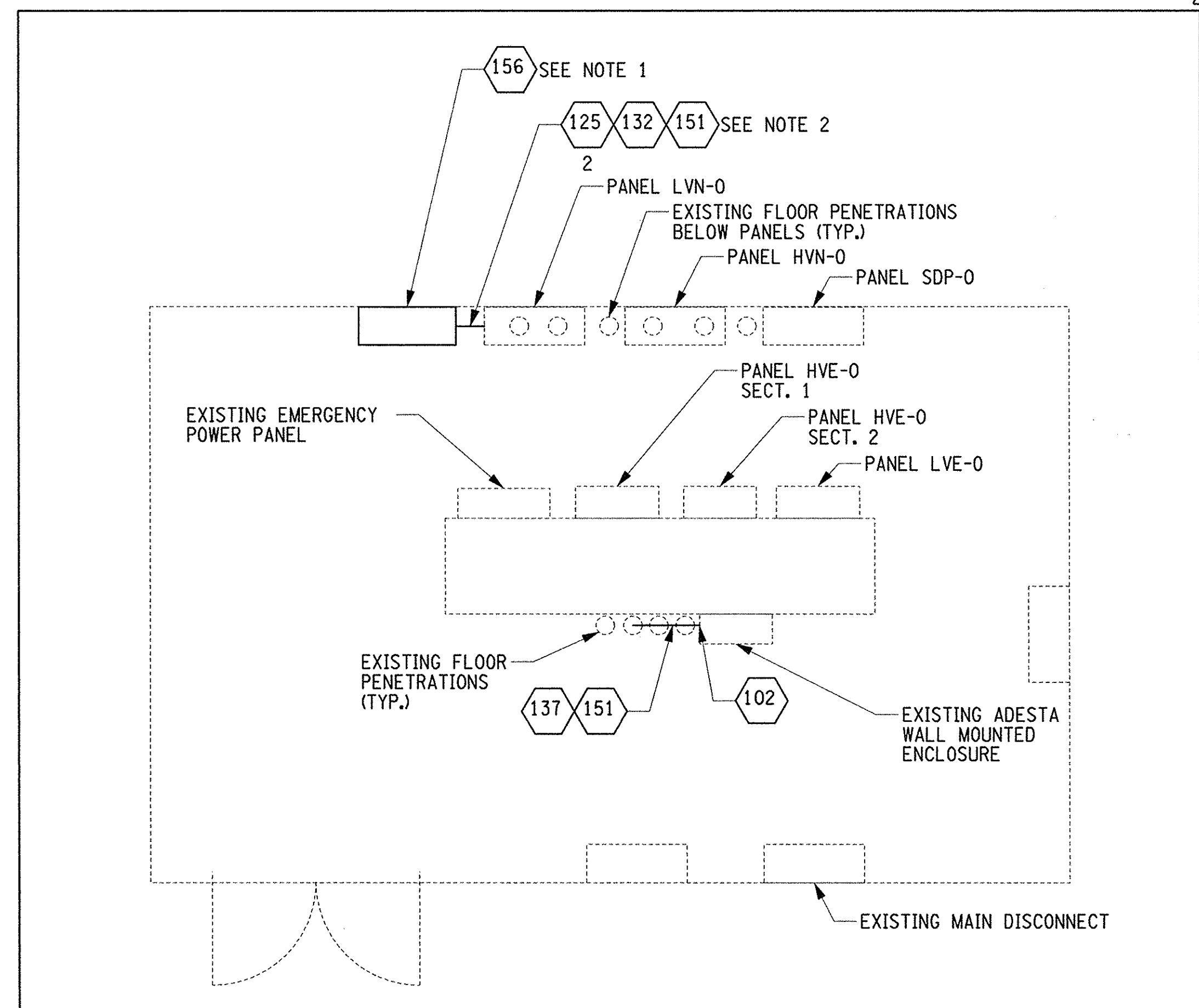
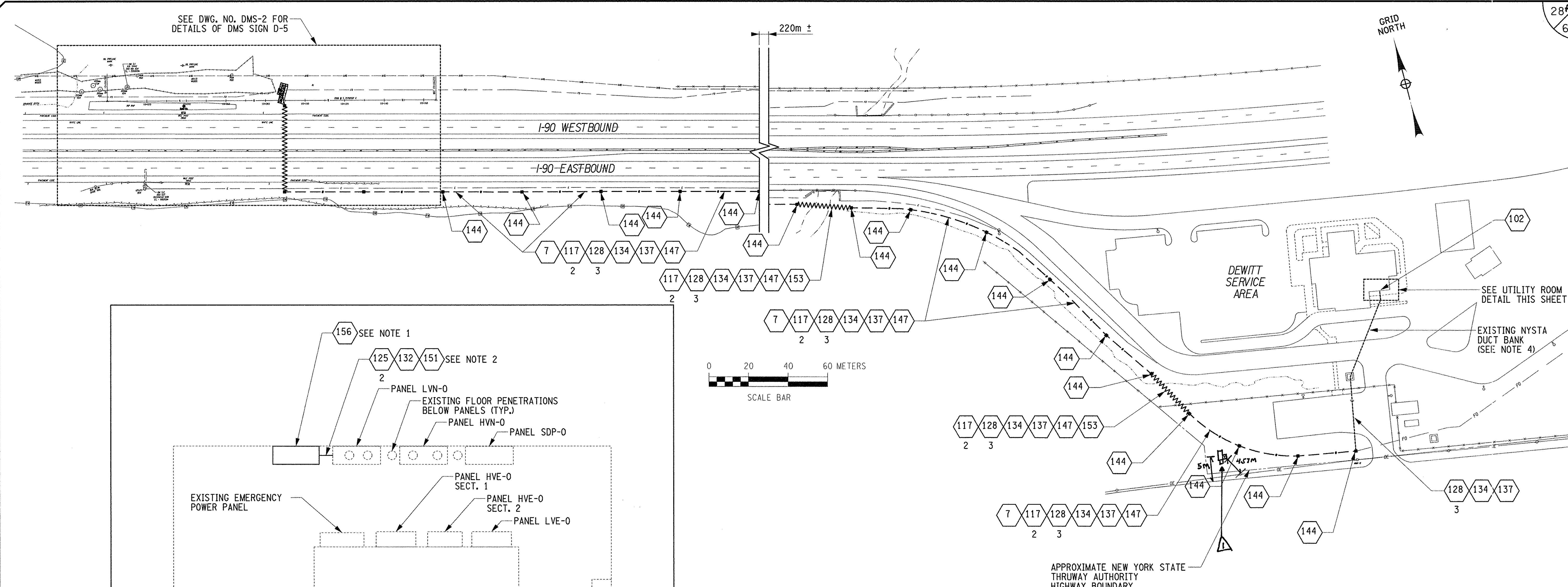
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT I-90 MP 285.67 EB, SALINA, NY			
TITLE OF DRAWING CCTV C-14 & TRANSMIT TX-11 PROPOSED SITE PLAN			
CONTRACT NUMBER: TAS 08-321			
DATE: JULY 30, 2008			
DRAWING NUMBER: SP-10			



Discipline: NYSDOT
Project: NY Highway Design
Model: BALASCO-SH1

Plotted By: pbalasco
Design File: 25831.T
Plot Date: 9/29/2008

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



- NOTES:
1. MOUNT JUNCTION BOX 1.5M AFF. TRANSITION DMS EQUIPMENT POWER FEEDERS IN BOX. PROVIDE TERMINAL STRIP WITH LUGS SIZED AS REQUIRED FOR CONDUCTORS INDICATED.
 2. PROVIDE 2-POLE 30A BREAKER COMPATIBLE WITH EXISTING PANEL BOARD. MATCH EXISTING STYLE, TYPE AND AIC RATING. ALL WORK NOT COVERED UNDER WIRING AND CONDUIT SHALL BE PAID FOR UNDER ITEM 690.040001-05.
 3. PROVIDE TYPE "B" PULLBOXES EVERY 40m (MAX.) A.O.B.E.
 4. PROPOSED POWER AND COMMUNICATION SHALL BE INSTALLED IN EXISTING VACANT CONDUITS. CONTRACTOR SHALL COORDINATE THIS WORK WITH NYSTA SERVICE AREA FACILITIES MANAGER.

REF. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY.
7	206.03 M	CONDUIT EXCAVATION	M	756
8	206.0312--25 M	CONDUIT INSTALL ON ABOVE GRADE STRUCTURES	M	26
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
102	651.99083425 M	FIBER OPTIC PATCH PANEL	EA	2
117	662.74125025 M	HDPE PLASTIC INNERDUCT 31.25 mm (1 1/4 IN.) NOMINAL DIAMETER	M	1700
120	670.2306 M	GALVANIZED STEEL PLASTIC COATED CONDUIT, 2 NPS	M	31
125	670.7004 M	SINGLE CONDUCTOR CABLE, NO. 6 GAGE	M	3

REF. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY.
128	670.7030 M	SINGLE CONDUCTOR CABLE, 3/0 GAGE	M	2880
132	670.75060125 M	GROUND WIRE 1/C NO. 6 AWG THWN 600V	M	2
134	670.75090125 M	GROUND WIRE 3/C NO. 3/0 AWG THWN 600V	M	960
137	651.99083125 M	FIBER OPTIC DISTRIBUTION CABLE (1 BUFFER TUBE, 6 FIBERS PER TUBE)	M	962
144	680.5109--25 M	PULLBOX - B, 914 x 610 x 600	EA	24
147	680.520507 M	CONDUIT - RIGID PLASTIC CLASS 1, 2-1/2 NPS DIA.	M	850
148	680.520105 M	CONDUIT - METAL STEEL, ZINC COATED, 1 1/2 NPS DIA.	M	16
151	680.520103 M	CONDUIT, ZINC COATED, 1 NPS	M	5
153	650.1006 M	TRENCHLESS INSTALLATION OF CASING UNDER HIGHWAY, 6 NPS DIA.	M	100
156	670.41091211 M	GALV. STEEL NEMA-4 TYPE JUNCTION BOX SURF. MTD., 457x305x254mm	EA	1

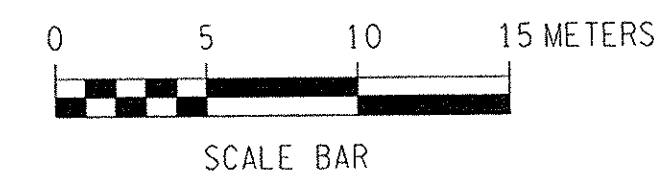
As Built Revisions

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 DMS PLAN SITE D-5 M.P. 280.00 WB			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: DMS-1			




REF.
7
8
52
53
80
83
102
11
12
12



A technical diagram showing a DMS (Dynamic Message Sign) structure on a road shoulder. The structure is a tall, lattice-like tower with a sign panel labeled 'E'. It is positioned on a shoulder that is 10+080 to 10+090. A road line is shown with a bearing of 2008 @ S 75°00'00" E. A 'NEW LOCATION STA.' is marked at 10+088.100, which is 3.131m RT (Right of Turn) from the road line. A 'PAVEMENT EDGE' is indicated at the bottom. An arrow points from the text 'DMS SIGN STRUCTURE' to the tower.

REF. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY.
128	670.7030 M	SINGLE CONDUCTOR CABLE, 3/0 GAGE	M	2880
132	670.75060125 M	GROUND WIRE 1/C NO. 6 AWG THWN 600V	M	2
134	670.75090125 M	GROUND WIRE 3/C NO. 3/0 AWG THWN 600V	M	960
137	651.99083125 M	FIBER OPTIC DISTRIBUTION CABLE (1 BUFFER TUBE, 6 FIBERS PER TUBE)	M	962
144	680.5109--25 M	PULLBOX - B, 914 x 610 x 600	EA	24
147	680.520507 M	CONDUIT - RIGID PLASTIC CLASS 1, 2-1/2 NPS DIA.	M	850
148	680.520105 M	CONDUIT - METAL STEEL, ZINC COATED, 1 1/2 NPS DIA.	M	16
151	680.520103 M	CONDUIT, ZINC COATED, 1 NPS	M	5
153	650.1006 M	TRENCHLESS INSTALLATION OF CASING UNDER HIGHWAY, 6 NPS DIA.	M	100
156	670.41091211 M	GALV. STEEL NEMA-4 TYPE JUNCTION BOX SURF. MTD., 457x305x254mm	EA	1



<i>As Built Revision</i>			
<i>6/10/98</i> DMS-5 NEW LOCATIONS	<i>Purvis</i>		<i>A</i>
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 DMS PLAN SITE D-5 M.P. 280.00 WB			
	CONTRACT NUMBER: TAS 08-321		
	DATE: JULY 30, 2008		
DRAWING NUMBER: DMS-2			

Discipline: NYSDOT
Project: NY_Highway_Design
Node: BALASCOP-SP1

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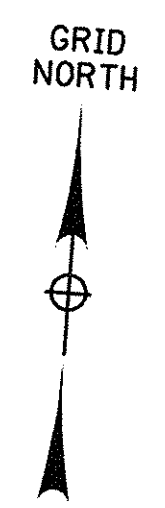
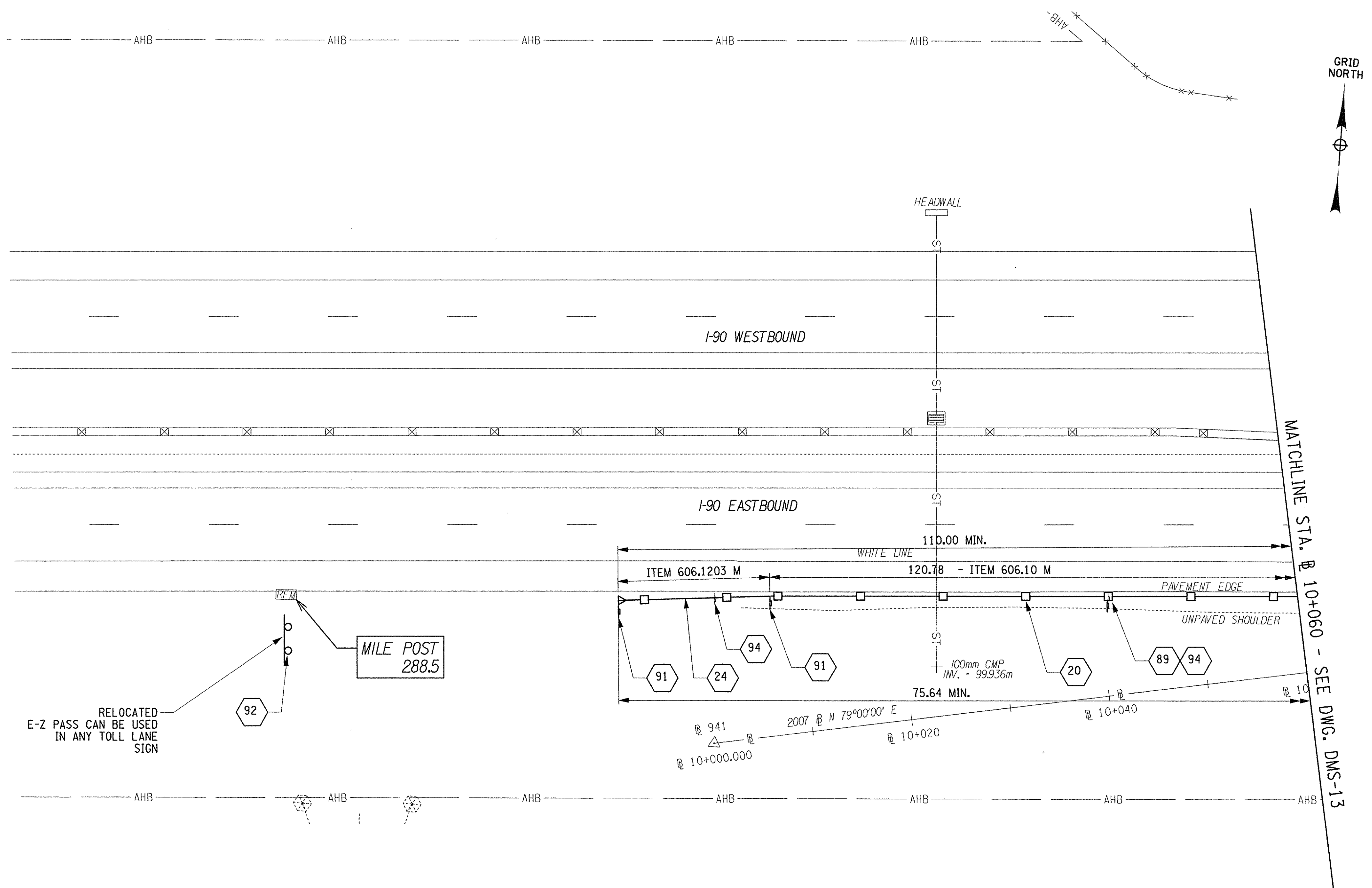
Plotted By: pbalasco
Design File: I90VarLoc.dgn
Node: 258411 PM
9/29/2008
Checked By: J. JOHNS

Discipline: NYSDOT
Project: NY Highway Design
Node: BALASCO-SH1
Drafted By: P. BALASCO

Designed By: M. CONLEY

Designed By: J. JOHNS

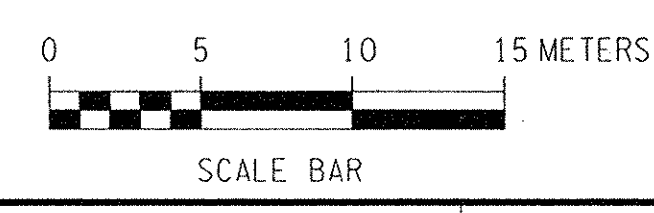
In Charge Of: J. JOHNS



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.




NOTE:
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

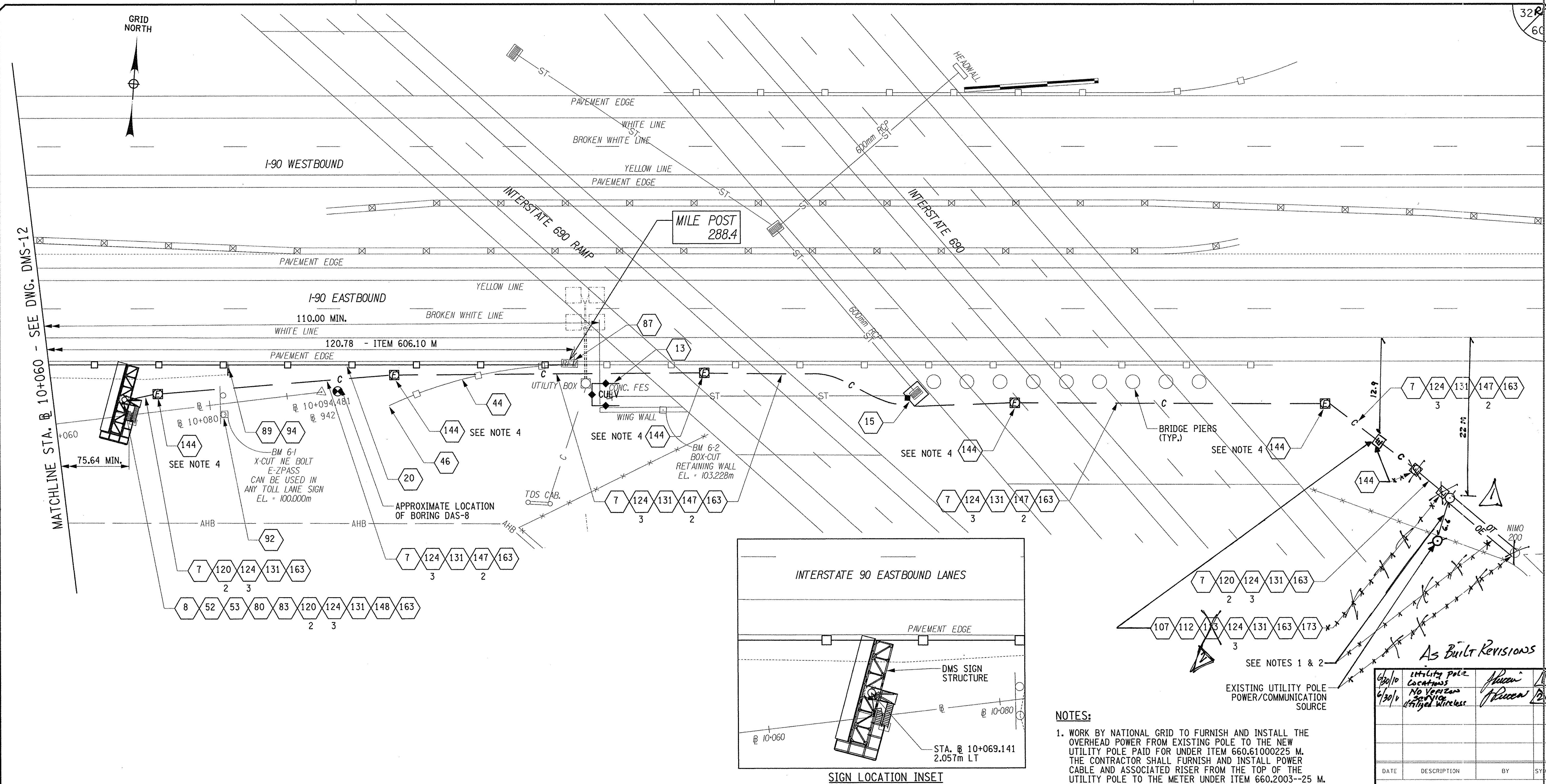


No As Built Revisions

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 DMS PLAN SITE D-6 M.P. 288.45 EB			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: DMS-4			

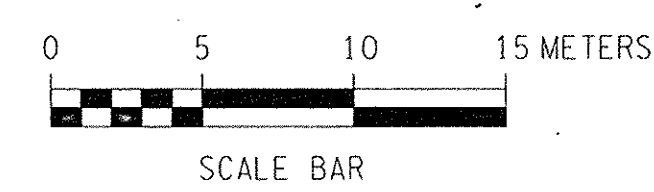


Discipline: NYSDOT
Project: NY_Highway_Design
Node: BALASCOPI



REF. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY.	REF. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY.
7	206.03 M	CONDUIT EXCAVATION	M	175	91	646.0802--25 M	INSTALL SNOWPLOW MARKER, DOUBLE UNIT	EA	2
8	206.0312--25 M	CONDUIT INSTALL ON ABOVE GRADE STRUCTURES	M	26	92	647.14 M	RELOCATING SIGNS SIZE D (4.1 TO 10.0 SQUARE METERS)	EA	1
13	209.23 M	PIPE INLET/OUTLET PROTECTION - SILT FENCE TEMPORARY	M	10	94	647.01 M	REMOVAL OF SIGNS, SIZE A (0.0 -1.0 SM)	EA	3
15	209.1701 M	DRAINAGE STRUCTURE INLET PROTECTION - SILT FENCE TEMPORARY	M	10	107	660.2003--25 M	OVERHEAD/UNDERGROUND SERVICE POLE	EA	1
20	606.10 M	BOX BEAM GUIDE RAILING	M	121	112	660.61000225 M	REIMBURSEMENT TO NATIONAL GRID FOR FURNISHING UTILITY SERVICE	LS	N/A
24	606.1203 M	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE III	EA	1	113	660.61000325 M	REIMBURSEMENT TO VERIZON FOR FURNISHING UTILITY SERVICE	LS	N/A
44	606.73 M	REMOVING AND DISPOSING BOX BEAM GUIDE RAILING	M	25	120	670.2306 M	GALVANIZED STEEL PLASTIC COATED CONDUIT, 2 NPS	M	37
46	606.7920 M	REMOVING AND DISPOSE ANCHOR UNIT FOR BOX BEAM GUIDE RAIL	EA	1	124	670.7003 M	SINGLE CONDUCTOR CABLE, 4 GAGE	M	609
52	608.0101 M	CONCRETE SIDEWALKS AND DRIVEWAYS	CM	1	131	670.7504--25 M	GROUND WIRE 1/C NO. 4 AWG THWN 600V	M	203
53	608.01010125 M	WORK PAD	EA	1	144	680.5109--25 M	PULLBOX - B, 914 x 610 x 600	EA	6
80	644.4403 M	NON-STANDARD SIGN STRUCTURE, T-POLE	EA	1	147	680.520507 M	CONDUIT - RIGID PLASTIC CLASS 1, 2-1/2 NPS DIA.	M	331
83	645.4506--25 M	DYNAMIC MESSAGE SIGN	EA	1	148	680.520105 M	CONDUIT - METAL STEEL, ZINC COATED, 1 1/2 NPS DIA.	M	10
87	646.1032--25 M	REMOVE & RESET EXIST. DELINEATOR, SNOW PLOW MARKER, MILE MARKER	EA	1	163	680.750618 M	SHIELDED COMMUNICATIONS CABLE, 6 PAIRS, 18 AWG	M	202
89	646.0603--25 M	INSTALL DELINEATOR ON POST	EA	2	173	680.9410--25 M	WATERTIGHT DISCONNECT BOX	EA	1

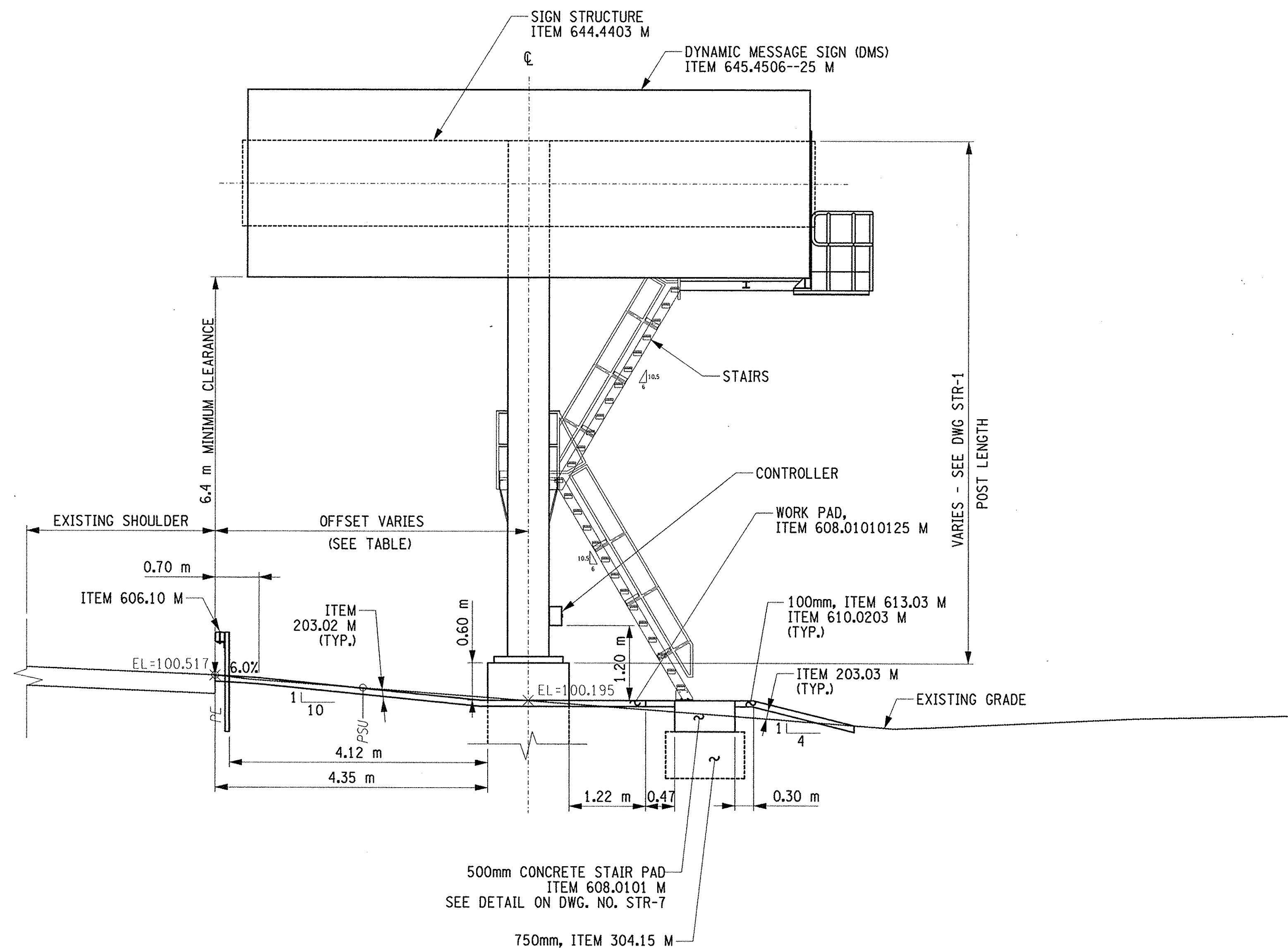
- NOTES:**
1. WORK BY NATIONAL GRID TO FURNISH AND INSTALL THE OVERHEAD POWER FROM EXISTING POLE TO THE NEW UTILITY POLE PAID FOR UNDER ITEM 660.61000225 M. THE CONTRACTOR SHALL FURNISH AND INSTALL POWER CABLE AND ASSOCIATED RISER FROM THE TOP OF THE UTILITY POLE TO THE METER UNDER ITEM 660.2003--25 M. THE CONTRACTOR SHALL COIL 1.5m OF SLACK CABLE TO ALLOW SERVICE CONNECTION BY NATIONAL GRID.
 2. 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.
 3. SEE DWG. NO. MPT-3 FOR DETAILED MAINTENANCE AND PROTECTION OF TRAFFIC REQUIREMENTS AT THIS SITE.
 4. 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.



<i>9/20/10</i>	<i>Htality Police Locations</i>	<i>Puccini</i>	<i>A</i>
<i>9/30/10</i>	<i>No Overlans Service Utilized Wireless</i>	<i>Puccini</i>	<i>B</i>
DATE	DESCRIPTION	BY	SYS#
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-D6 M.P. 288.85 EB		
	CONTRACT NUMBER:	TAS 08-321	
	DATE:	JULY 30, 2008	
	DRAWING NUMBER:	DMS-5	



SIGN MANUFACTURE	OFFSET (m)
SKYLINE PRODUCTS	5.000
LEDSTAR INC.	5.000
DAKTRONICS INC.	4.000


DMS SITE D-6
M.P. 288.45 EASTBOUND
N.T.S.

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

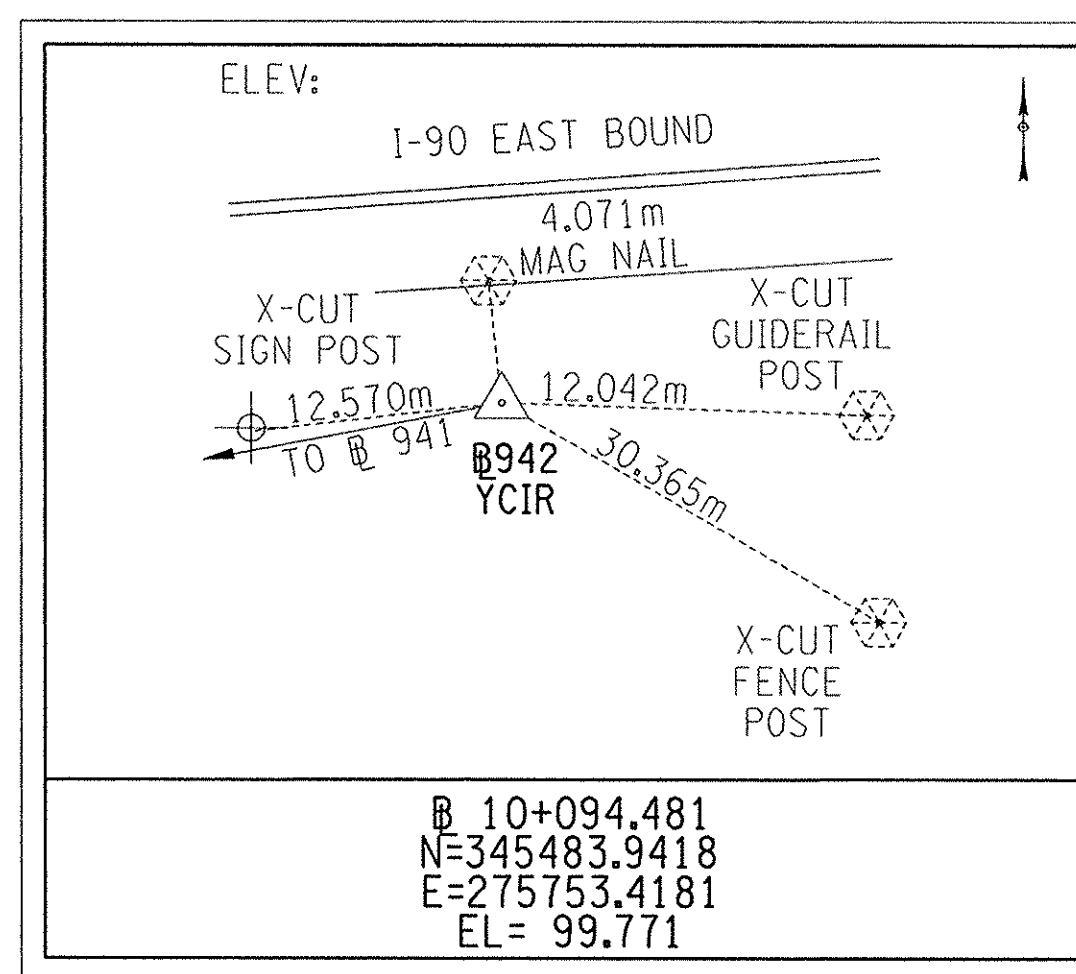
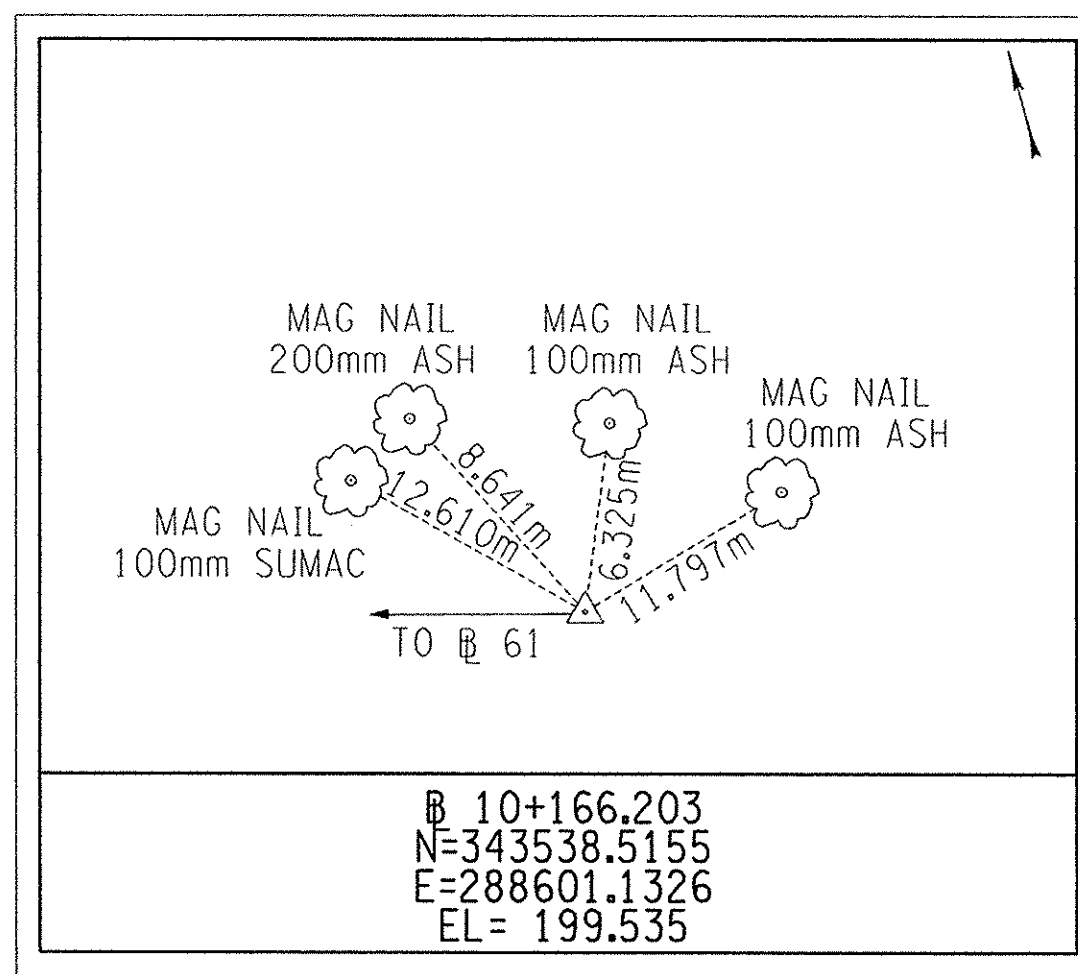
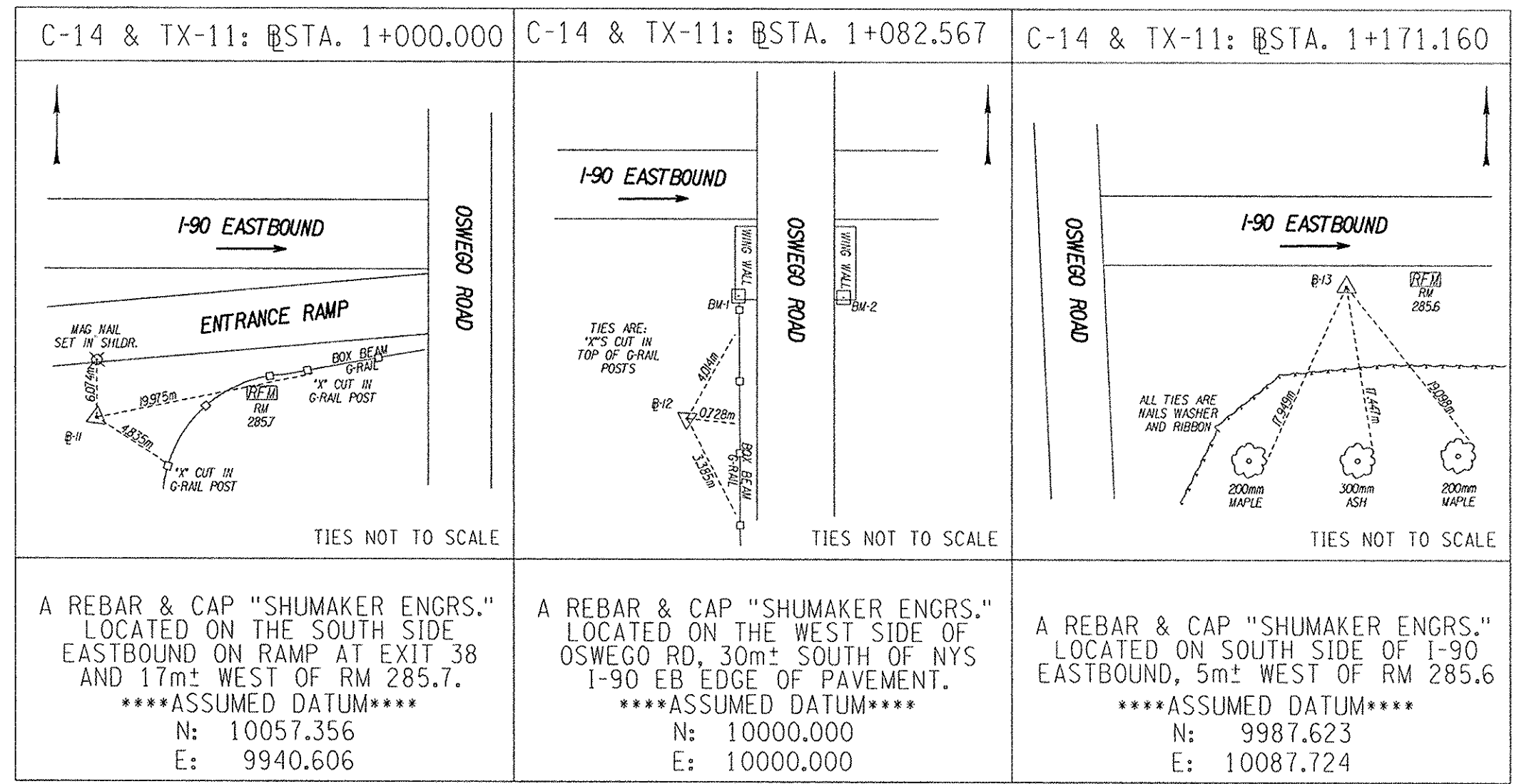
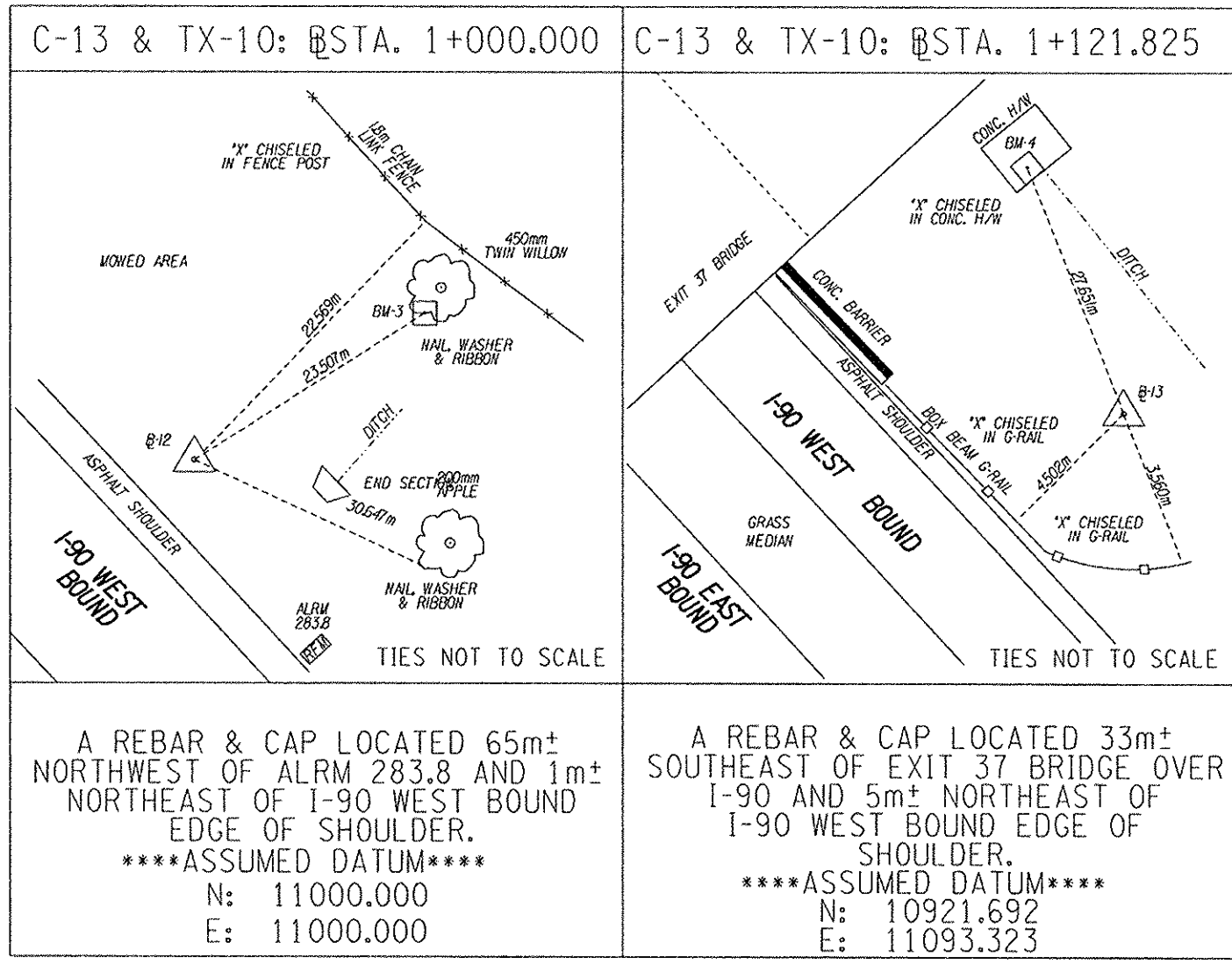
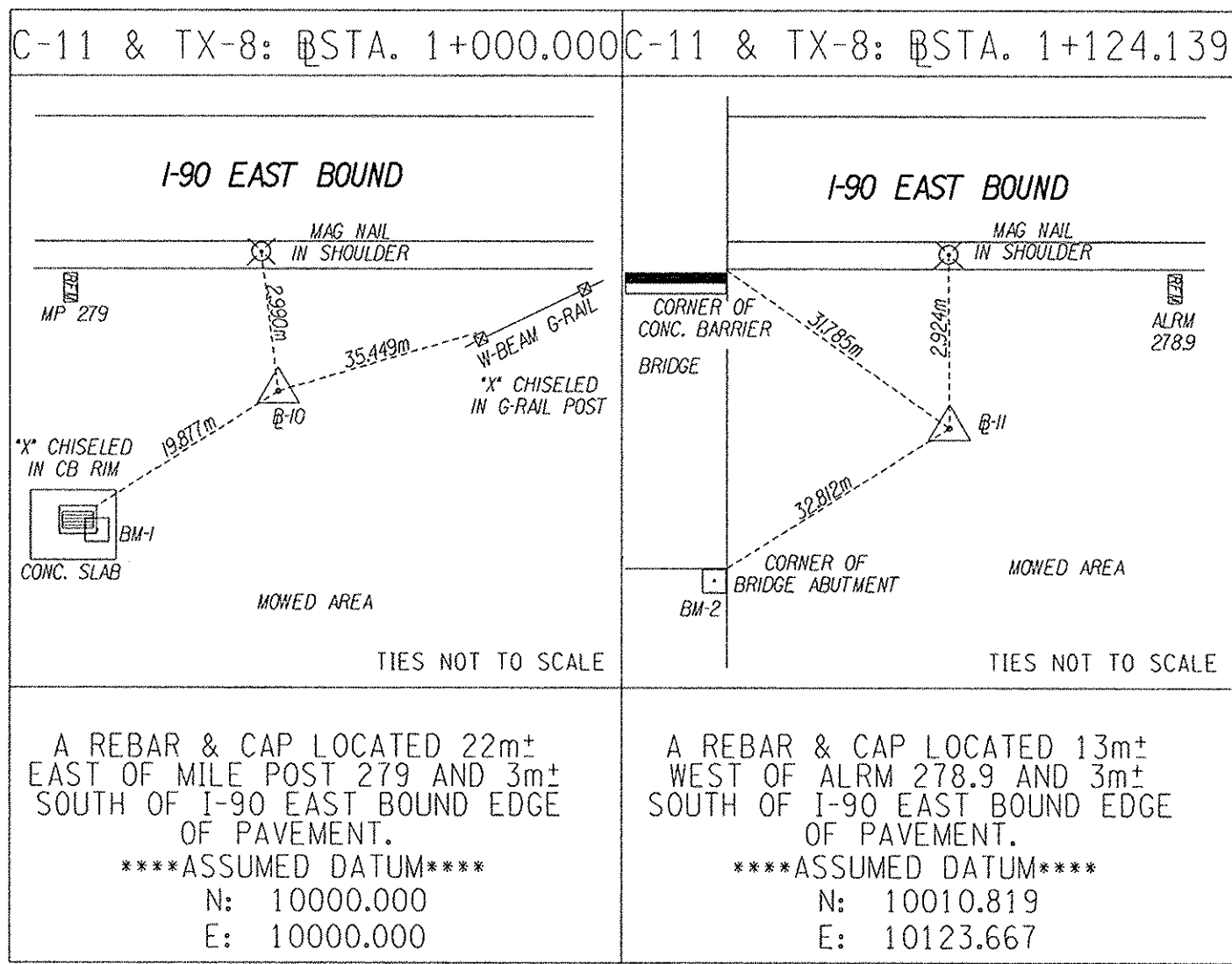
TITLE OF PROJECT
INSTALLATION OF ITS DEVICES
 I-90 VAR. LOC., SYRACUSE DIV.

LOCATION OF PROJECT
SYRACUSE DIVISION

TITLE OF DRAWING
DMS ELEVATION
SITE D-6 M.P. 288.45 ET

	CONTRACT NUMBER: TAS 08-321
	DATE: JULY 30, 200
	DRAWING NUMBER: DMS-6





No As Built Revisions

NOTE:
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SYS	

REVISIONS

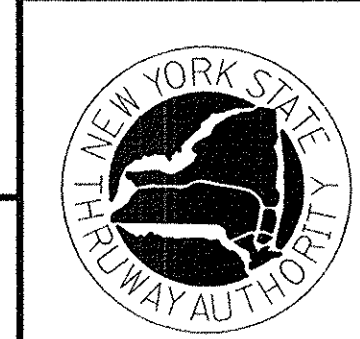
NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

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: pbalasco
Design File: U:\192500138\Transportation\des\gn60\ND\Gd\ra\wing\MT00VS_SFR_01.mtb.dgn
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
File


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	0+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	21.4025.0	1
						TOTAL:	122.120.8 214.1 m	1.0 EA 2 EA	21.4025.0 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	-	-	1	-	-
C-14/TX-11	0+930.0	14.4 RT	-	-	1	-	-
C-14/TX-11	1+014.5	9.8 LT	-	-	-	1	-
C-14/TX-11	1+029.5	16.0 LT	-	1	-	-	1
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	-	-	1
D-6	10+055.6	7.9 LT	-	1	-	-	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:

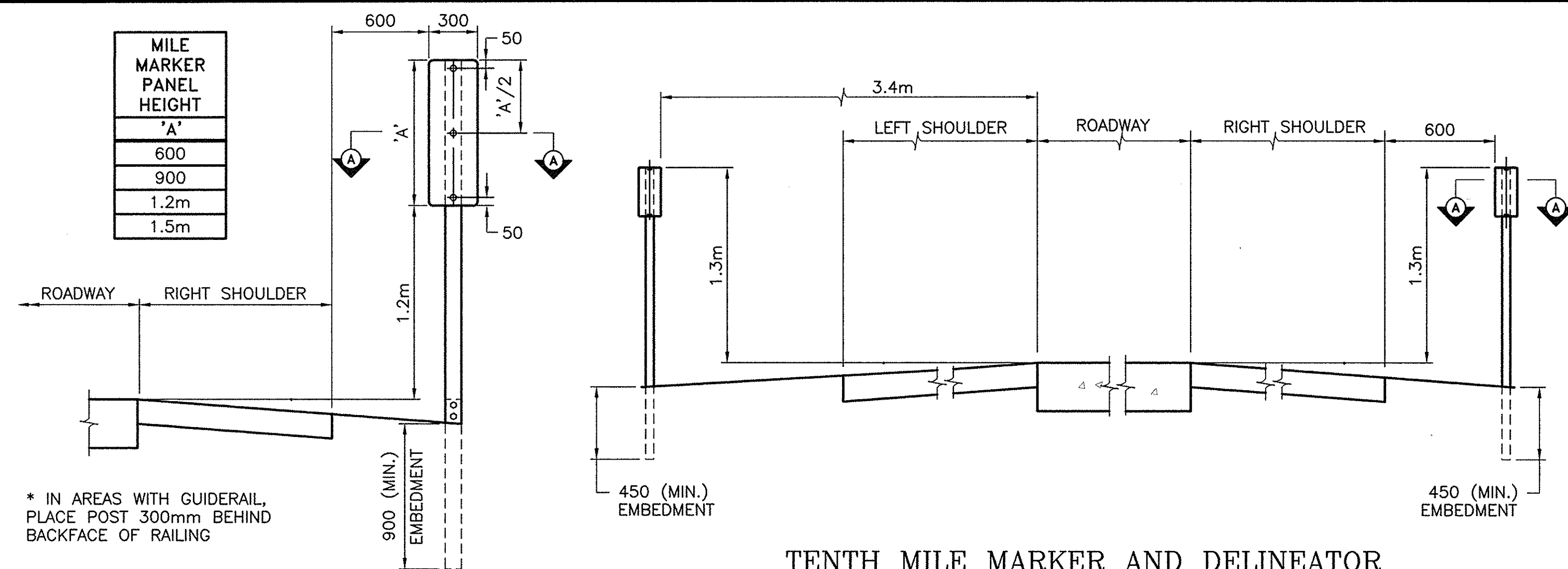
1. ALL SNOWPLOW MARKERS AND DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH THRUWAY STANDARD SHEETS DMM-1 AND DMM-2.

NOTE:
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

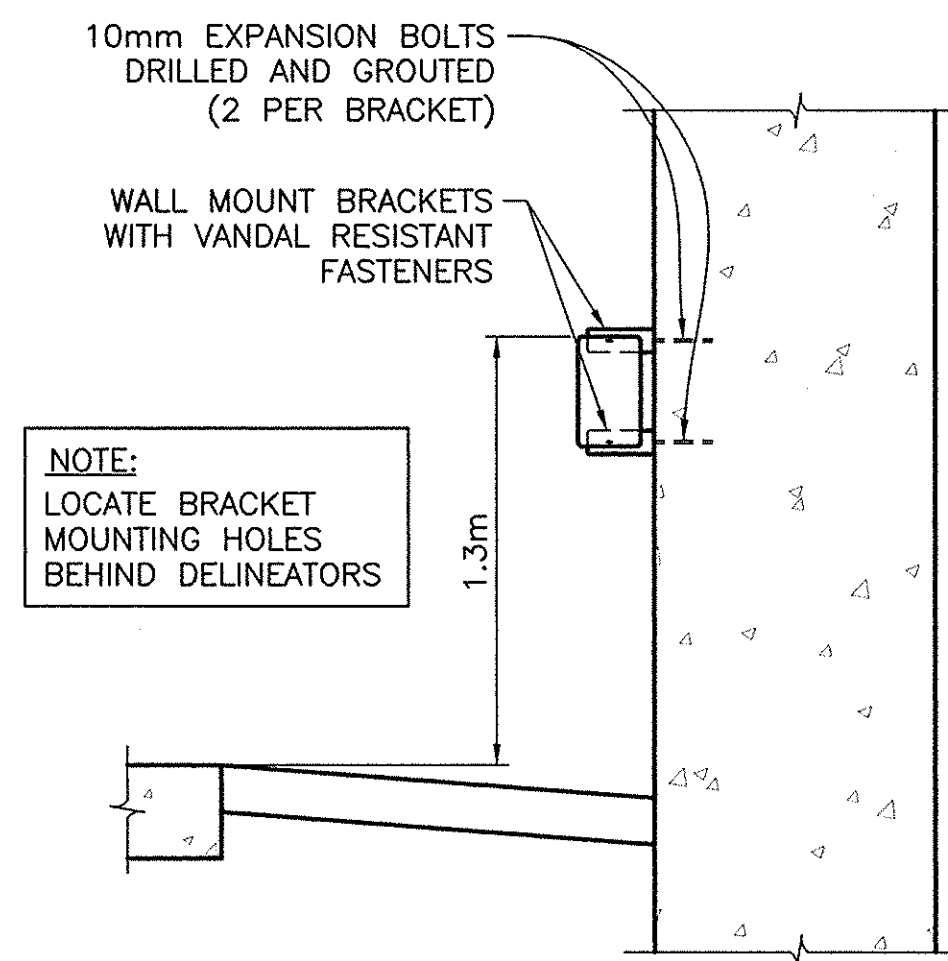
DATE	DESCRIPTION	BY	SYN
	REVISIONS		
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING MISCELLANEOUS TABLES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



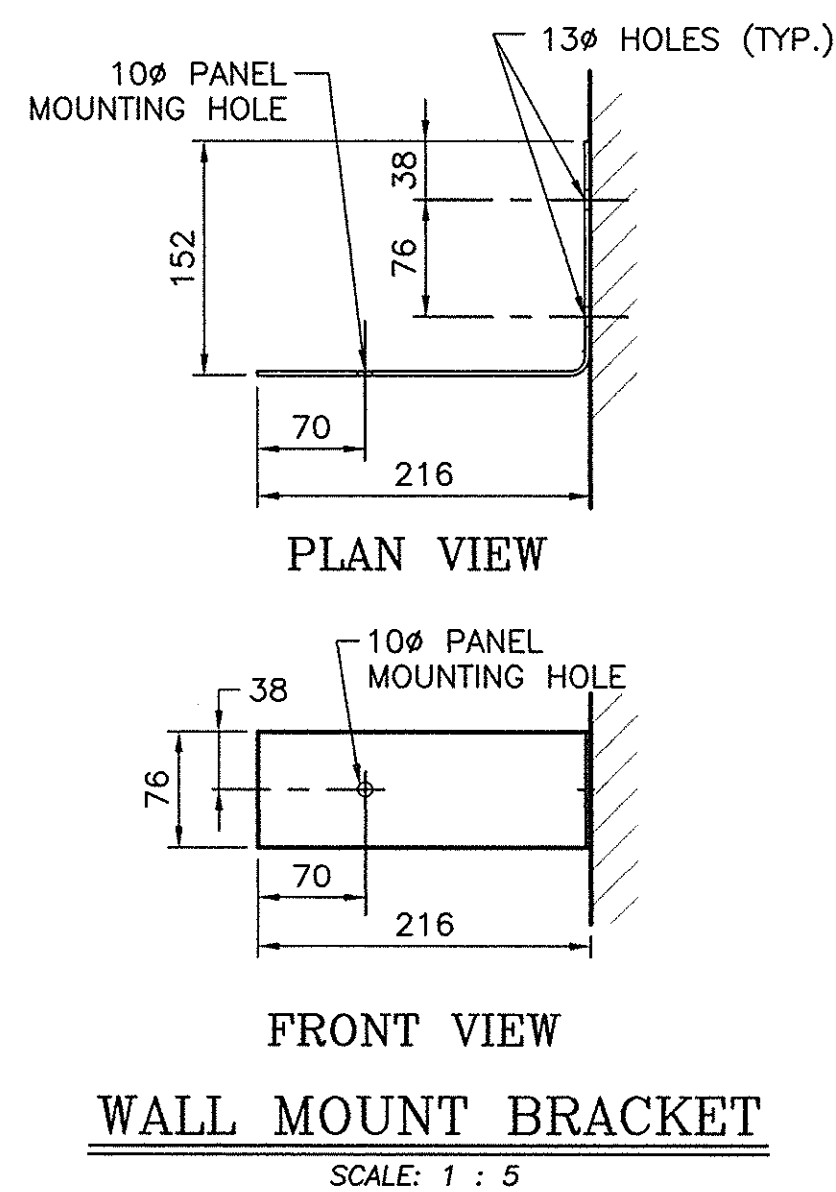
SS\DELIN-INSTALL-DTLS.DWG
CHECKED BY: J. PEGARELLA
DRAFTED BY: CAD
DESIGNED BY: TA
IN CHARGE OF: TA



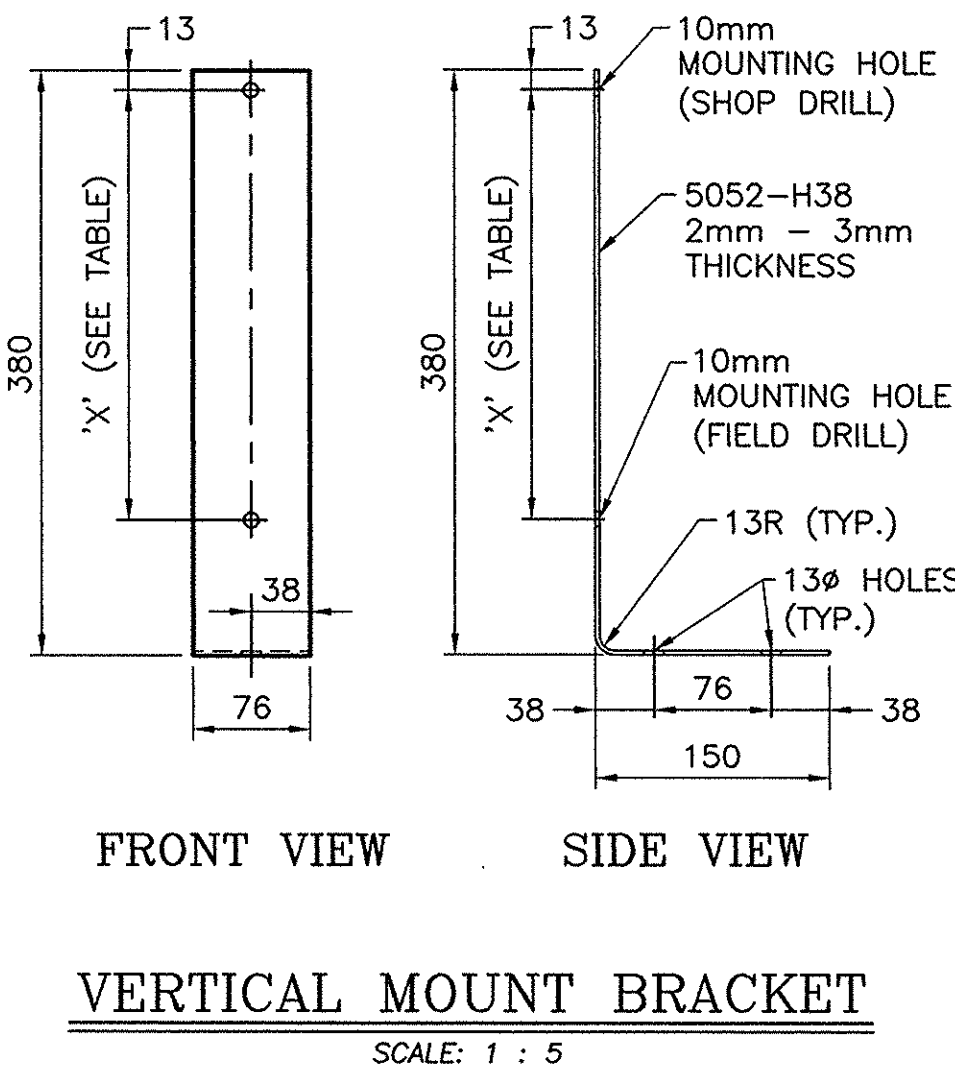
MILE MARKER
POST MOUNT INSTALLATION DETAIL
SCALE: 1 : 25



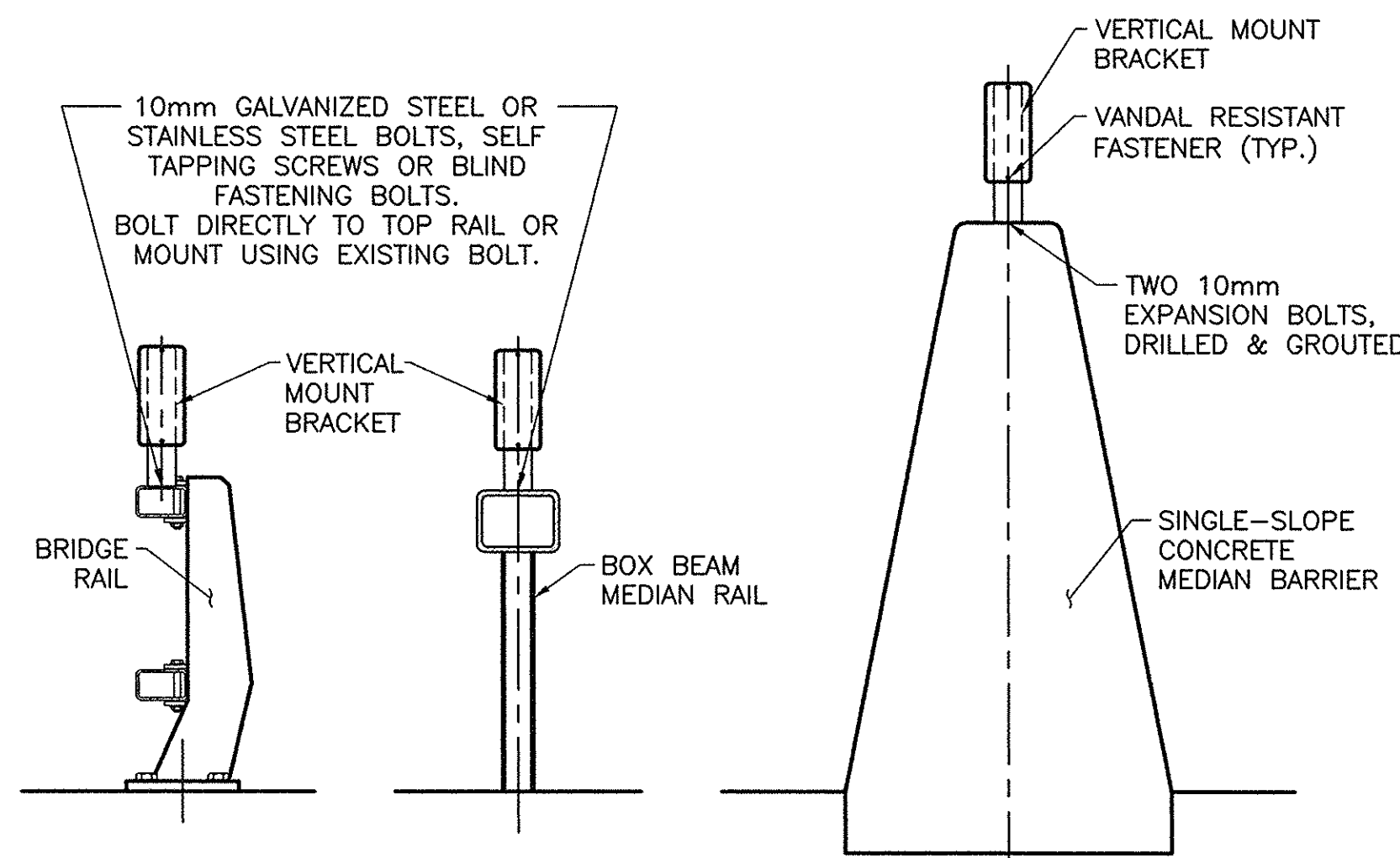
TENTH MILE MARKER AND DELINEATOR
WALL MOUNT INSTALLATION DETAIL
SCALE: 1 : 25



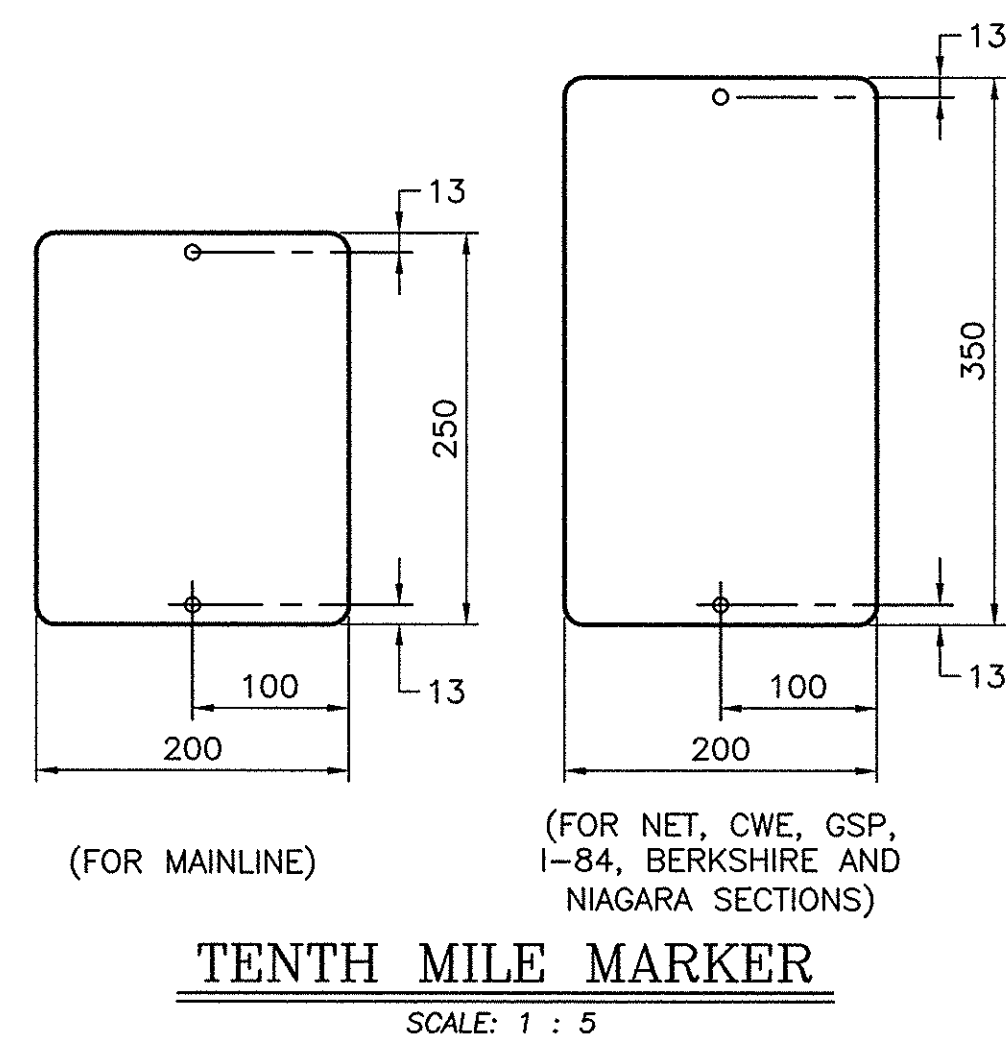
WALL MOUNT BRACKET
SCALE: 1 : 5



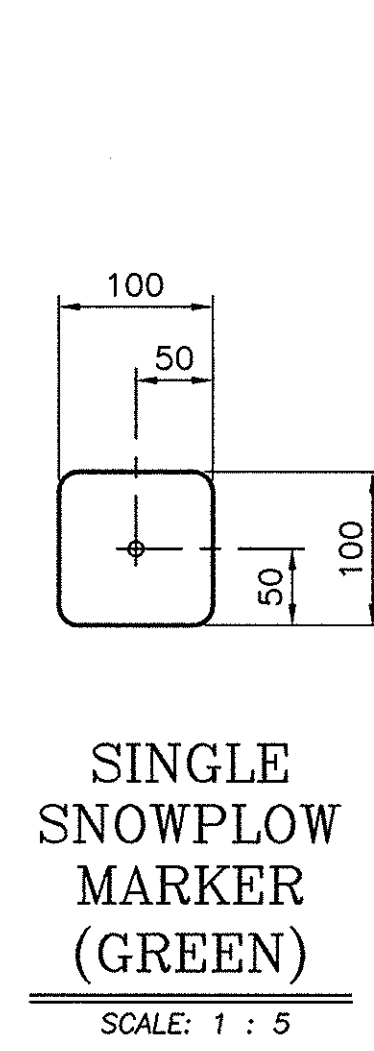
VERTICAL MOUNT BRACKET
SCALE: 1 : 5



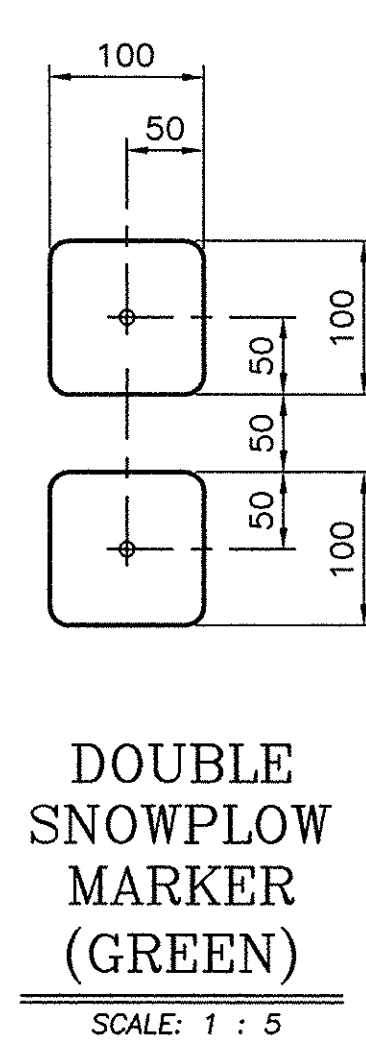
DELINEATOR
VERTICAL MOUNT INSTALLATION DETAILS
N.T.S.



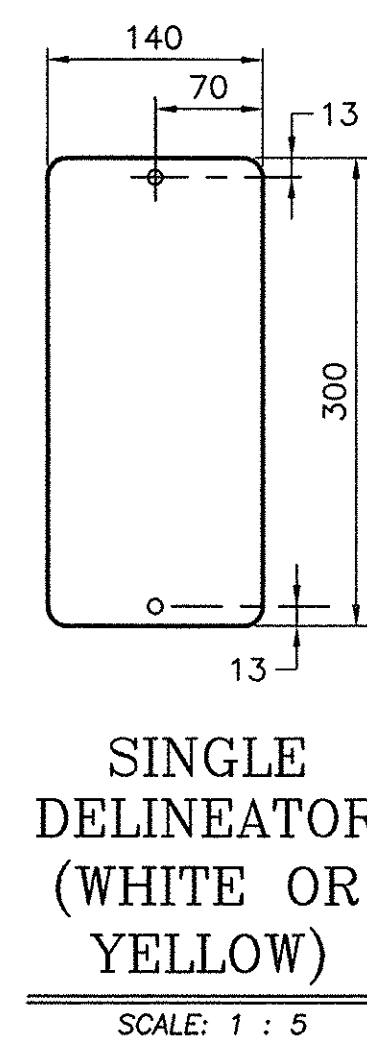
TENTH MILE MARKER
SCALE: 1 : 5



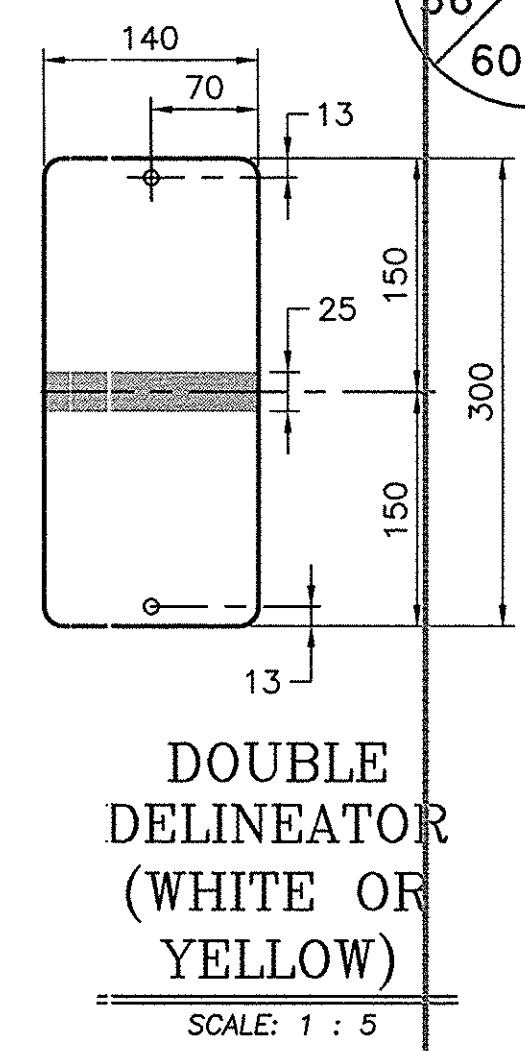
SINGLE
SNOWPLOW
MARKER
(GREEN)
SCALE: 1 : 5



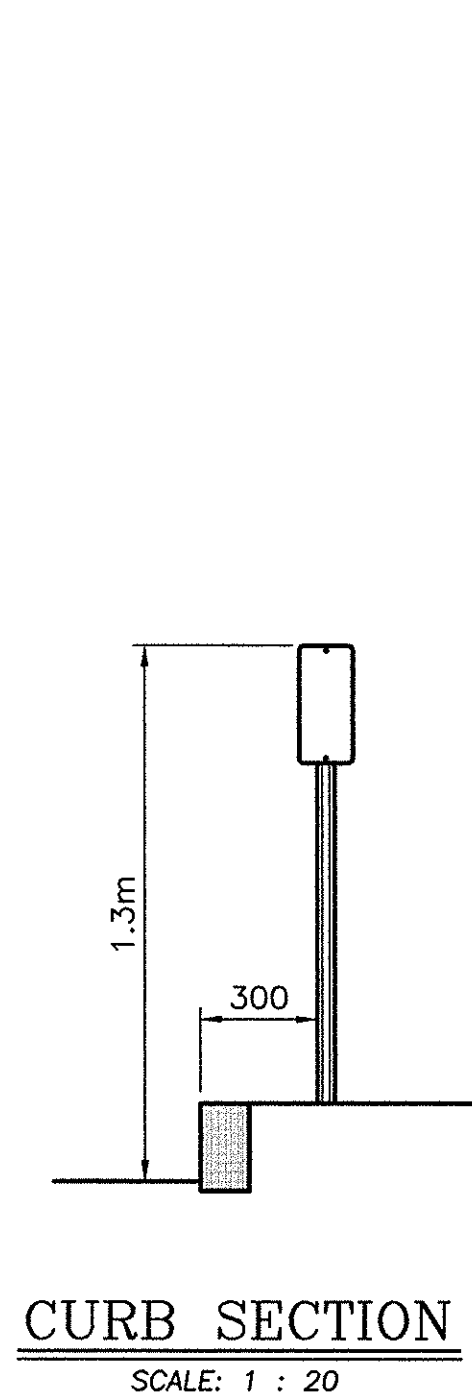
DOUBLE
SNOWPLOW
MARKER
(GREEN)
SCALE: 1 : 5



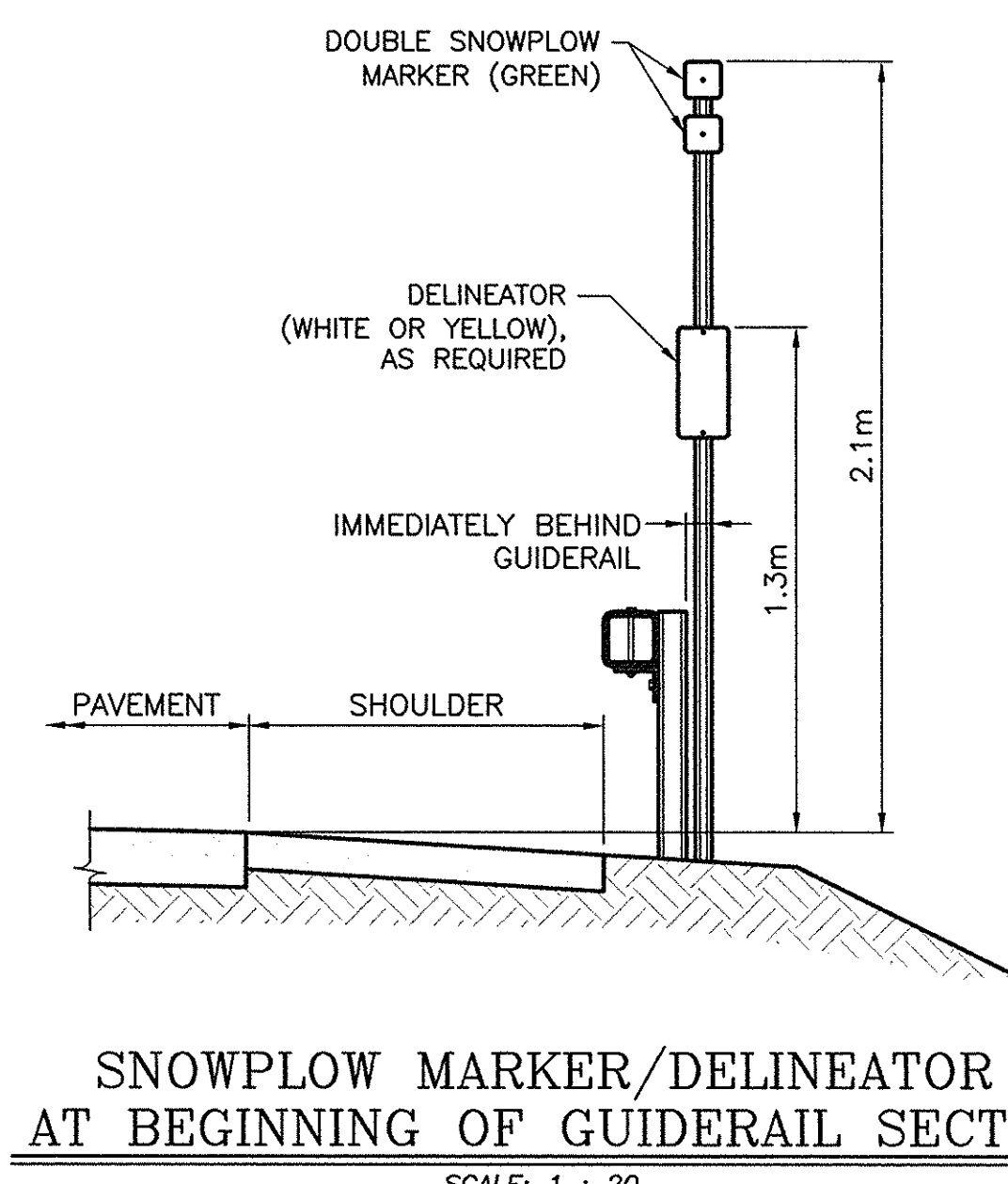
SINGLE
DELINEATOR
(WHITE OR
YELLOW)
SCALE: 1 : 5



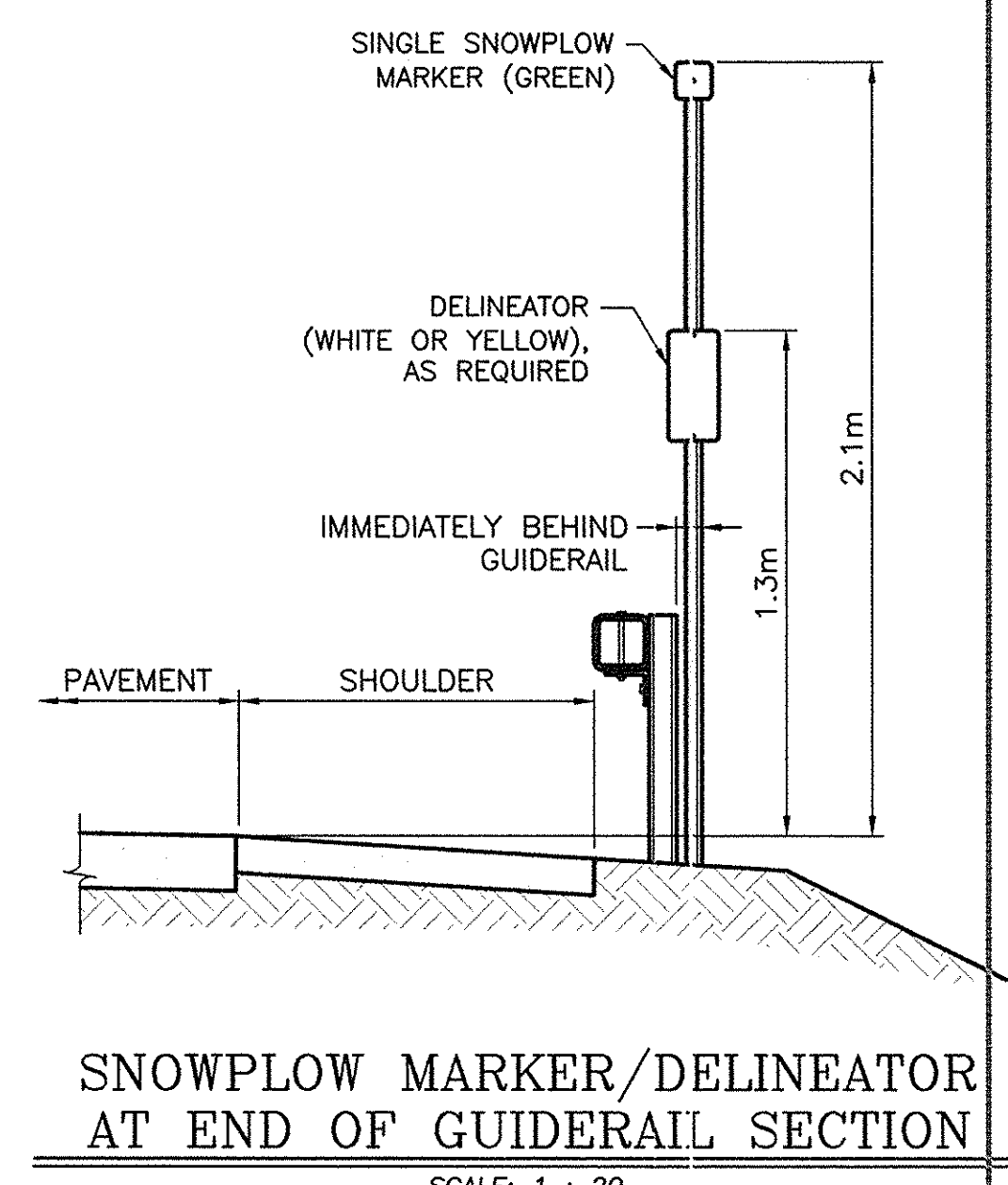
DOUBLE
DELINEATOR
(WHITE OR
YELLOW)
SCALE: 1 : 5



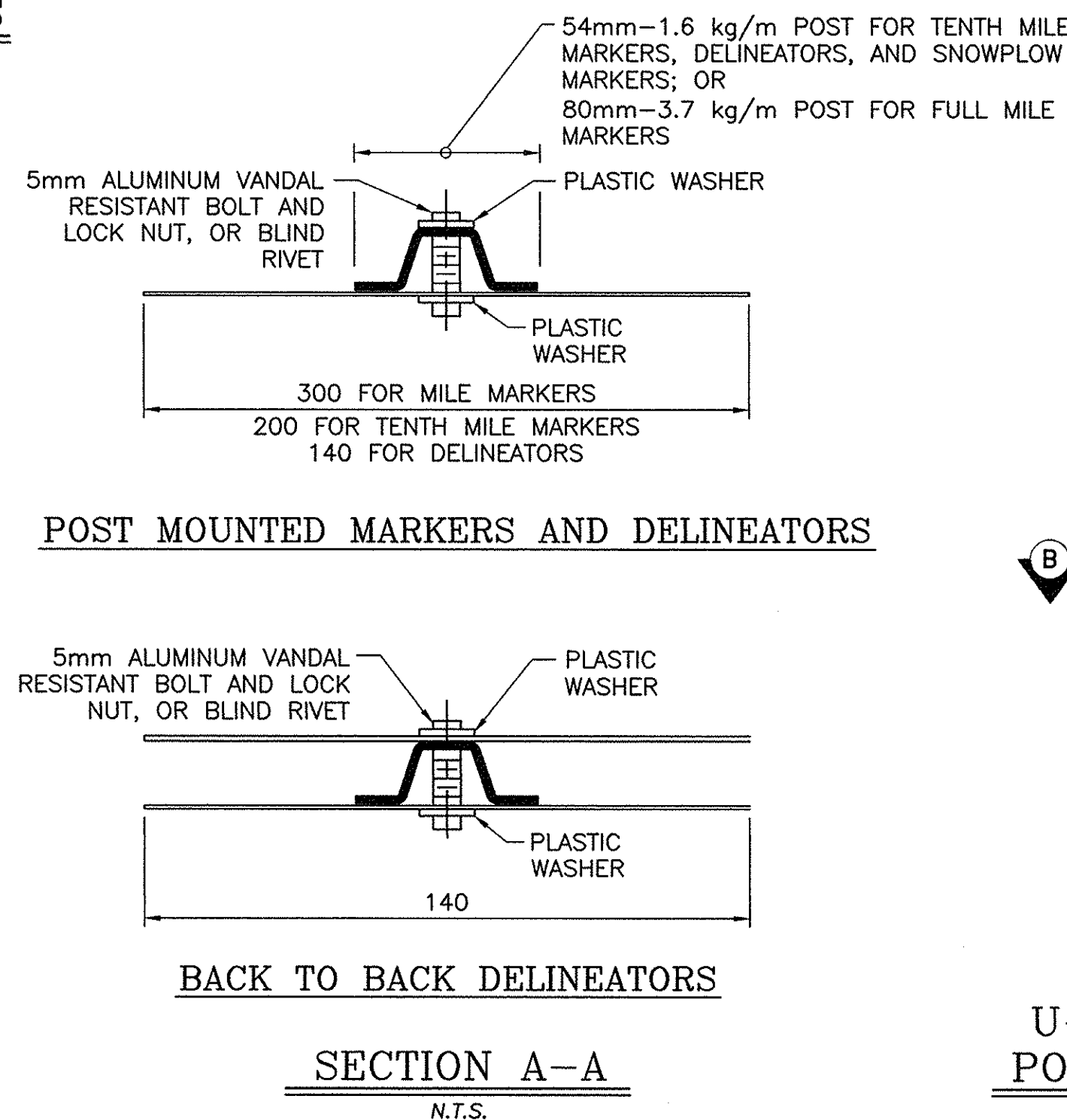
CURB SECTION
SCALE: 1 : 20



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

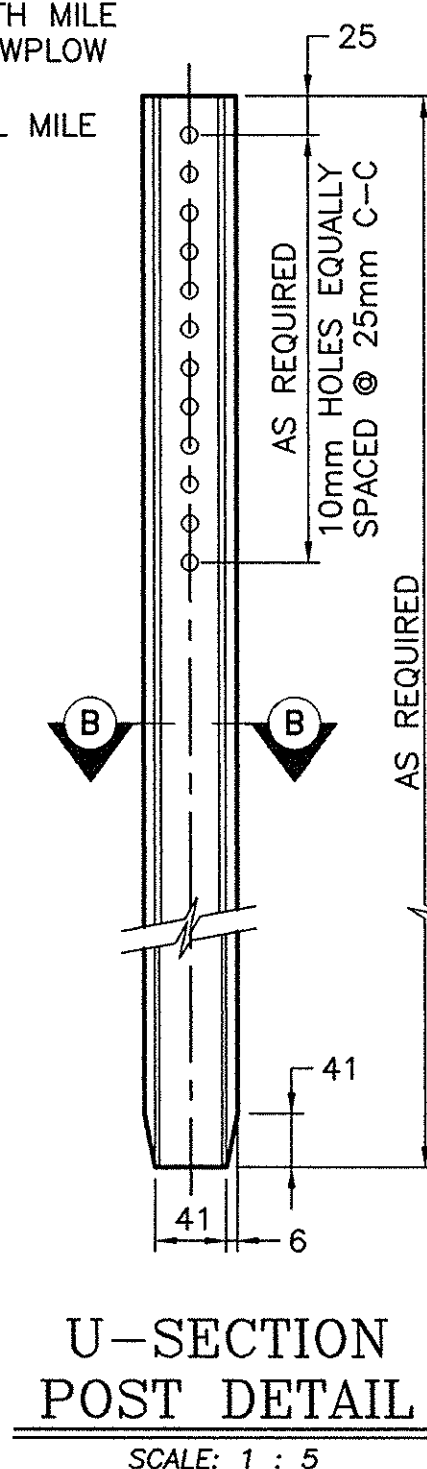


SNOWPLOW MARKER/DELINEATOR
AT END OF GUIDERAIL SECTION
SCALE: 1 : 20

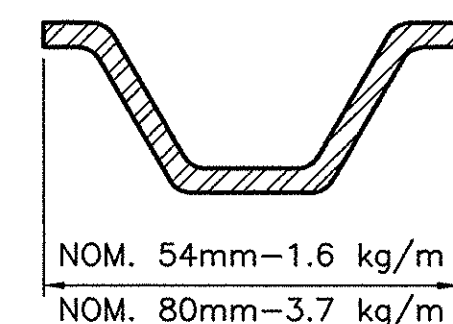


POST MOUNTED MARKERS AND DELINEATORS

SECTION A-A
N.T.S.



U-SECTION
POST DETAIL
SCALE: 1 : 5



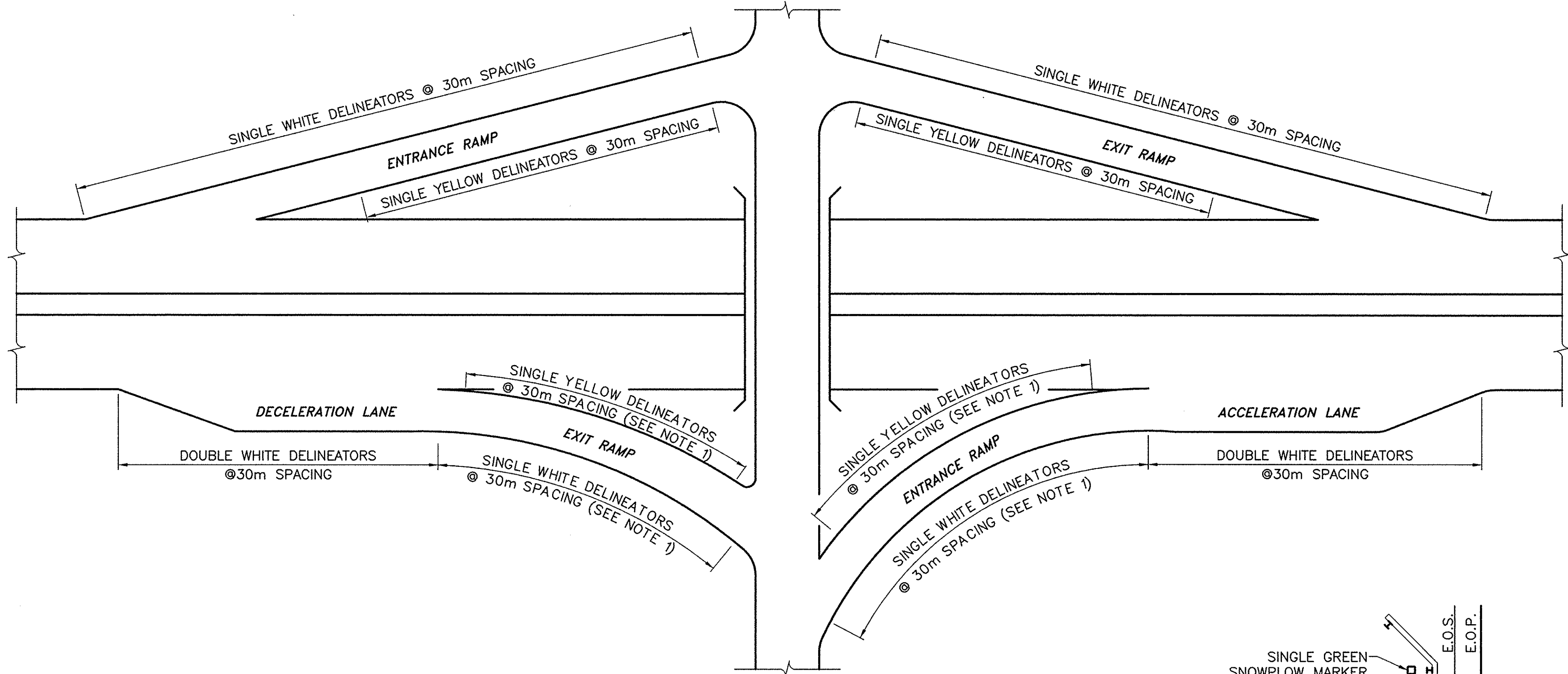
SECTION B-B
FULL SCALE

- 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			



DELINEATOR LAYOUT FOR INTERCHANGES
N.T.S.

NOTES:

1. 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.
2. 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.
3. 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.
4. WHERE AN EXISTING TENTH MILE MARKER FALLS WITHIN A LINE OF DOUBLE WHITE DELINEATORS, THE TENTH MILE MARKER SHALL REMAIN AT ITS PRESENT LOCATION.
5. 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.
6. 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.
7. ON CURVES, DELINEATOR FACES SHALL BE ORIENTED TO PROVIDE OPTIMUM VISIBILITY AT NIGHT. EXACT ORIENTATION WILL VARY BASED UPON THE DEGREE OF CURVE.
8. 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.
9. 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.

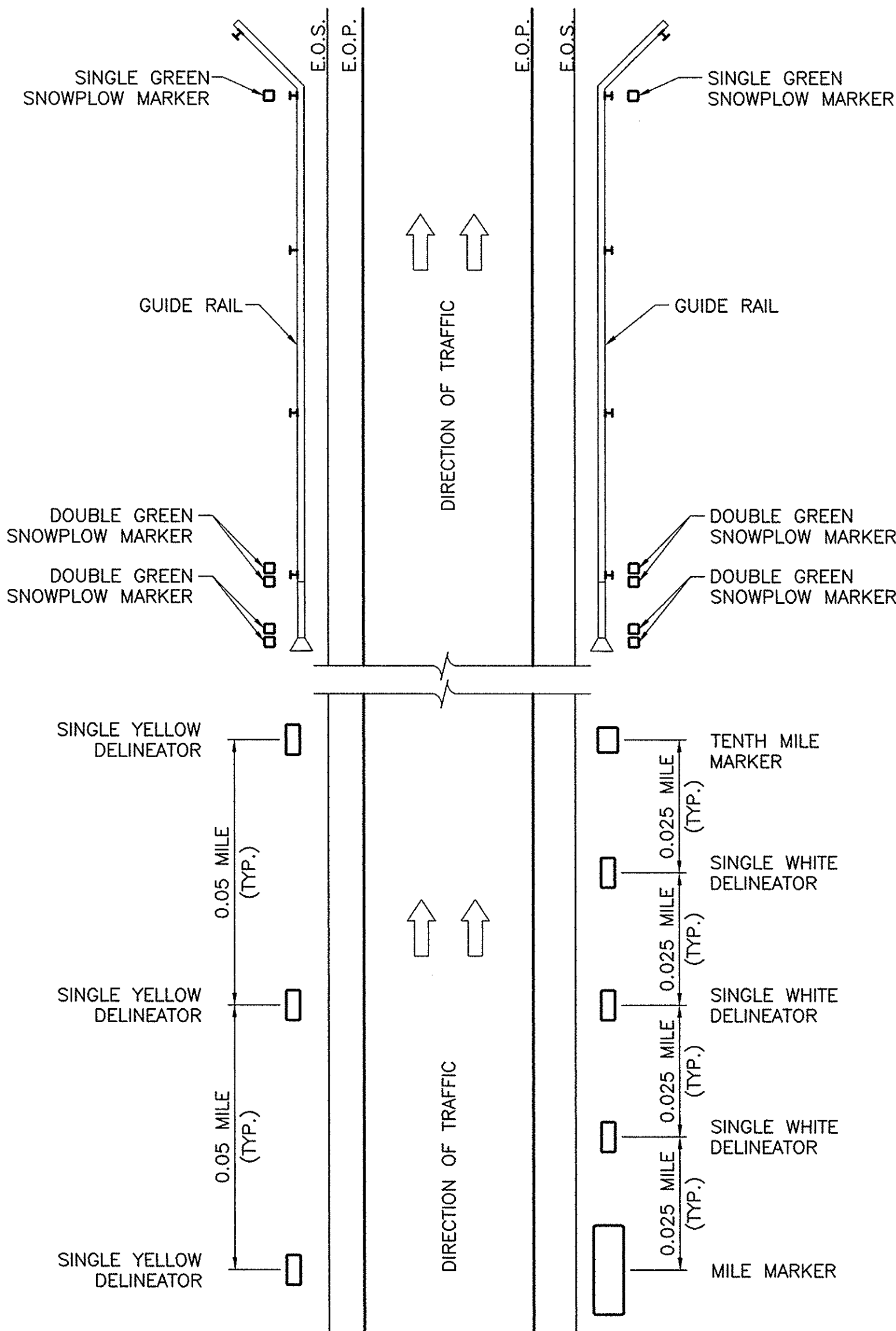
10. ALUMINUM HARDWARE OF 2024-T4 SHALL BE ALCLAD OR FINISHED WITH TYPE 206 FINISH IN ACCORDANCE WITH THE SPECIFICATIONS OF ALUMINUM ANODIC COATINGS.

DELINEATORS AND SNOWPLOWING MARKERS

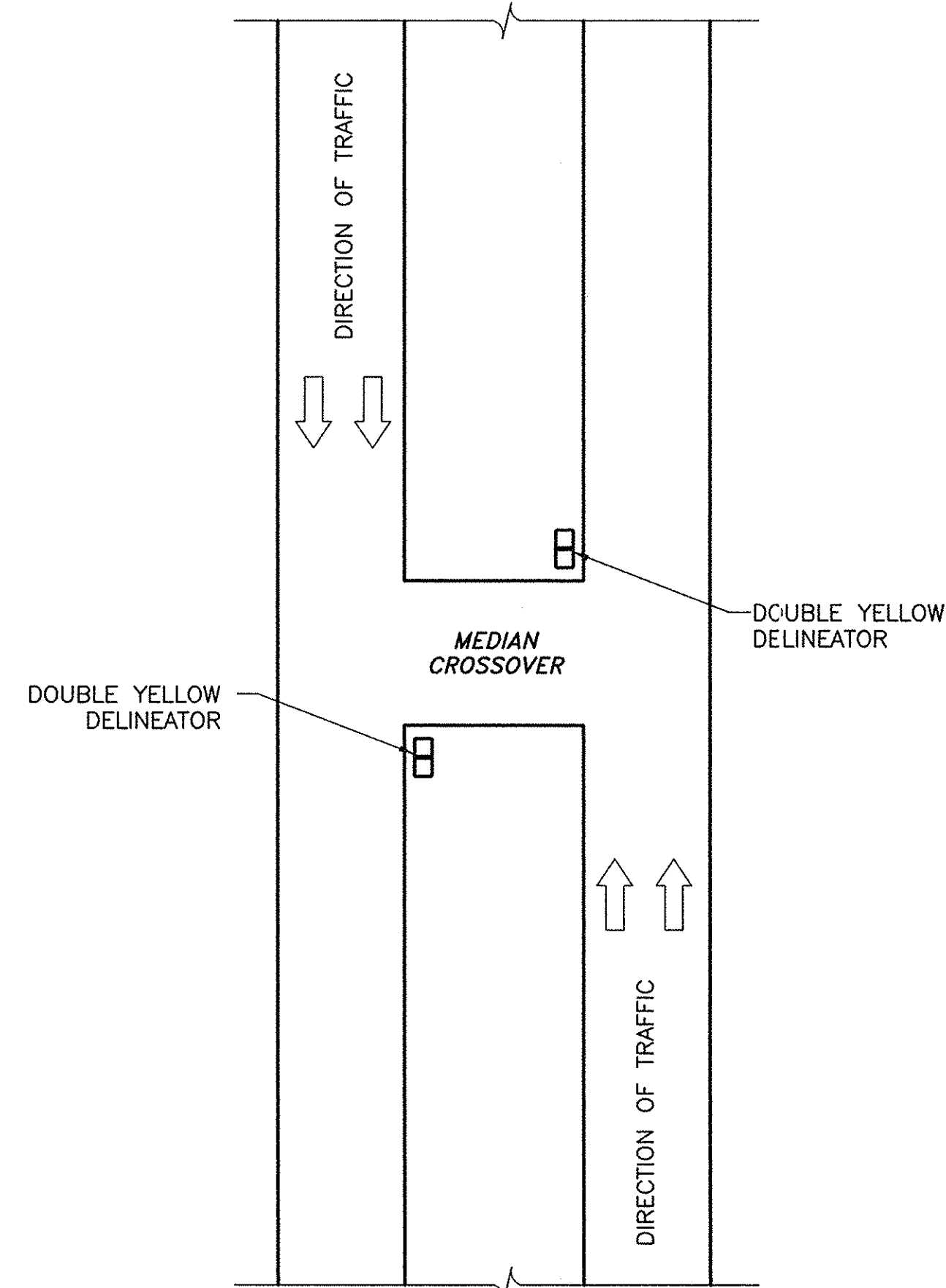
11. ON ROADWAY SECTIONS WITHOUT GUIDE RAIL, RIGHT SIDE DELINEATORS SHALL BE INSTALLED 600mm OUTSIDE THE USABLE RIGHT SHOULDER AND LEFT SIDE DELINEATORS SHALL BE INSTALLED 3.4m FROM THE LEFT EDGE OF PAVEMENT. WHERE THERE IS A CHANGE IN SHOULDER WIDTH, THE TRANSITION IN DELINEATOR PLACEMENT SHALL BE MADE GRADUALLY.
12. 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

13. 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.
14. 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.
15. 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.
16. 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.
17. 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 CROSSEOVERS
N.T.S.

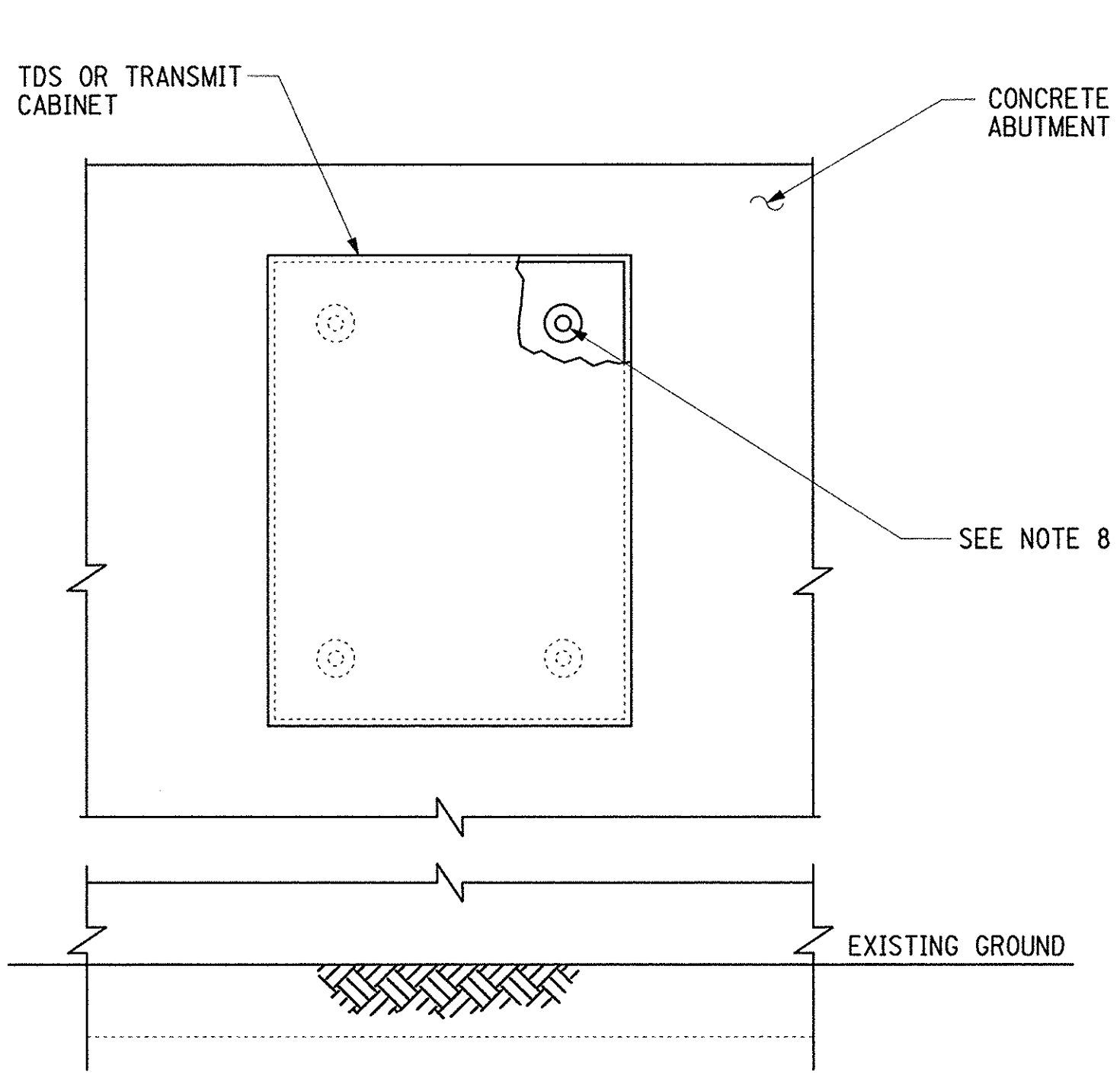
NOTE:
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED.

No As Built Revisions

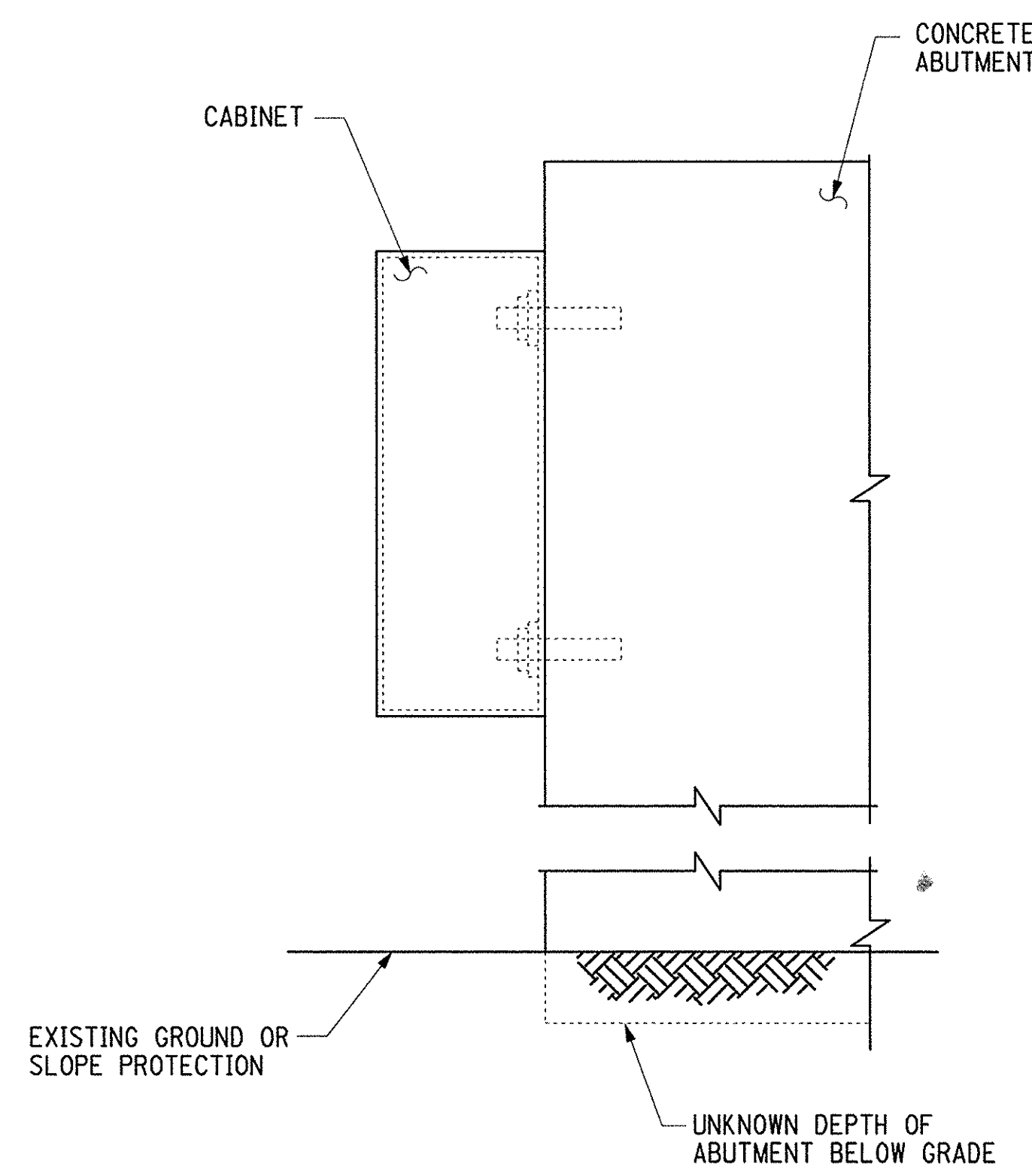
DATE	DESCRIPTION	BY	SYM.	
REVISIONS				
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209				
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIVISION				
LOCATION OF PROJECT SYRACUSE DIVISION				
TITLE OF DRAWING MILE MARKER,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

Discipline: NYSDOT
Project: NY Highway Design
Model: BALASCO-SP1
Plotted By: pbalasco
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Checked By: J. Johns

Discipline: NYSDOT
Project: NY Highway Design
Model: BALASCO-SP1
Plotted By: pbalasco
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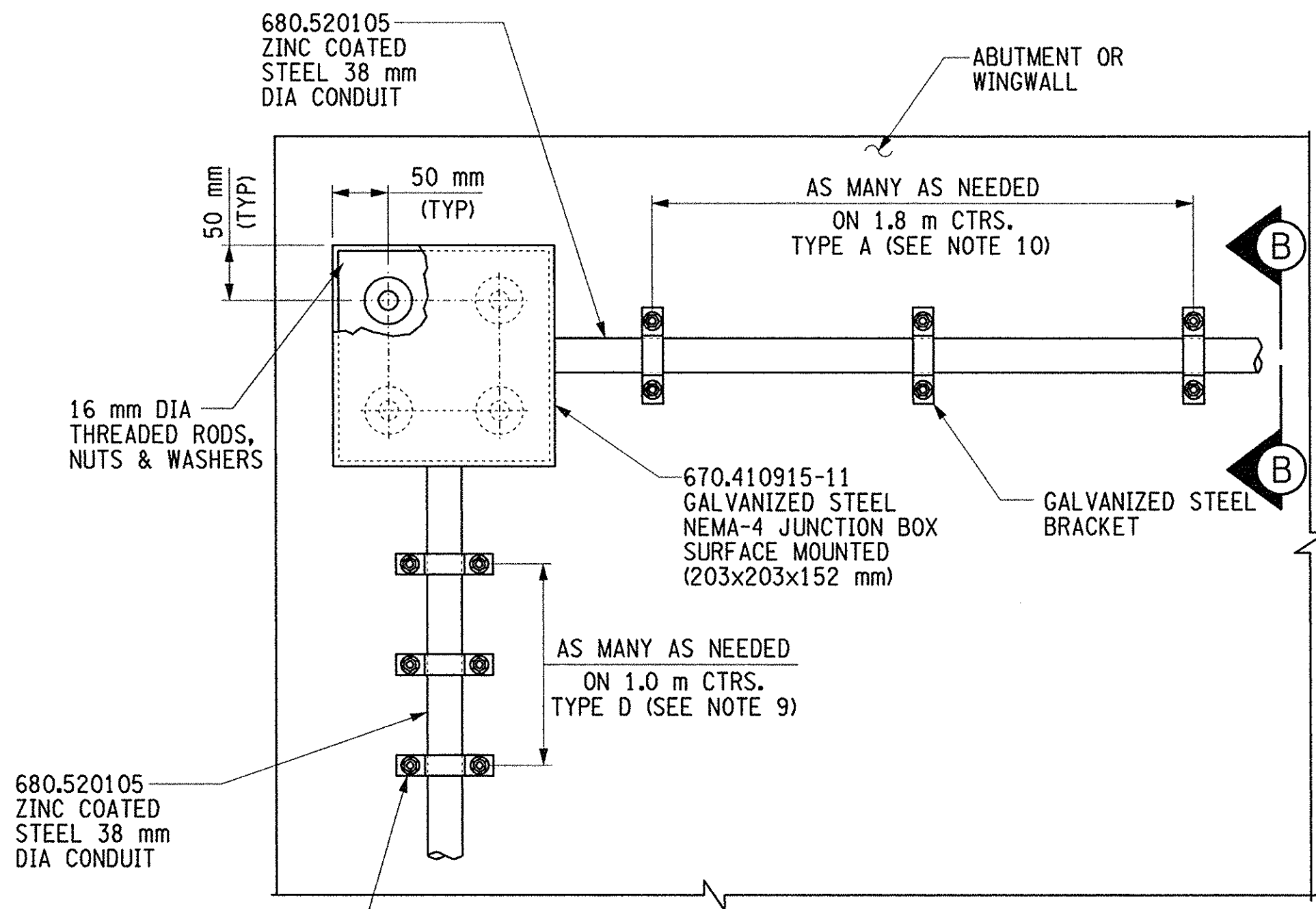


ELEVATION

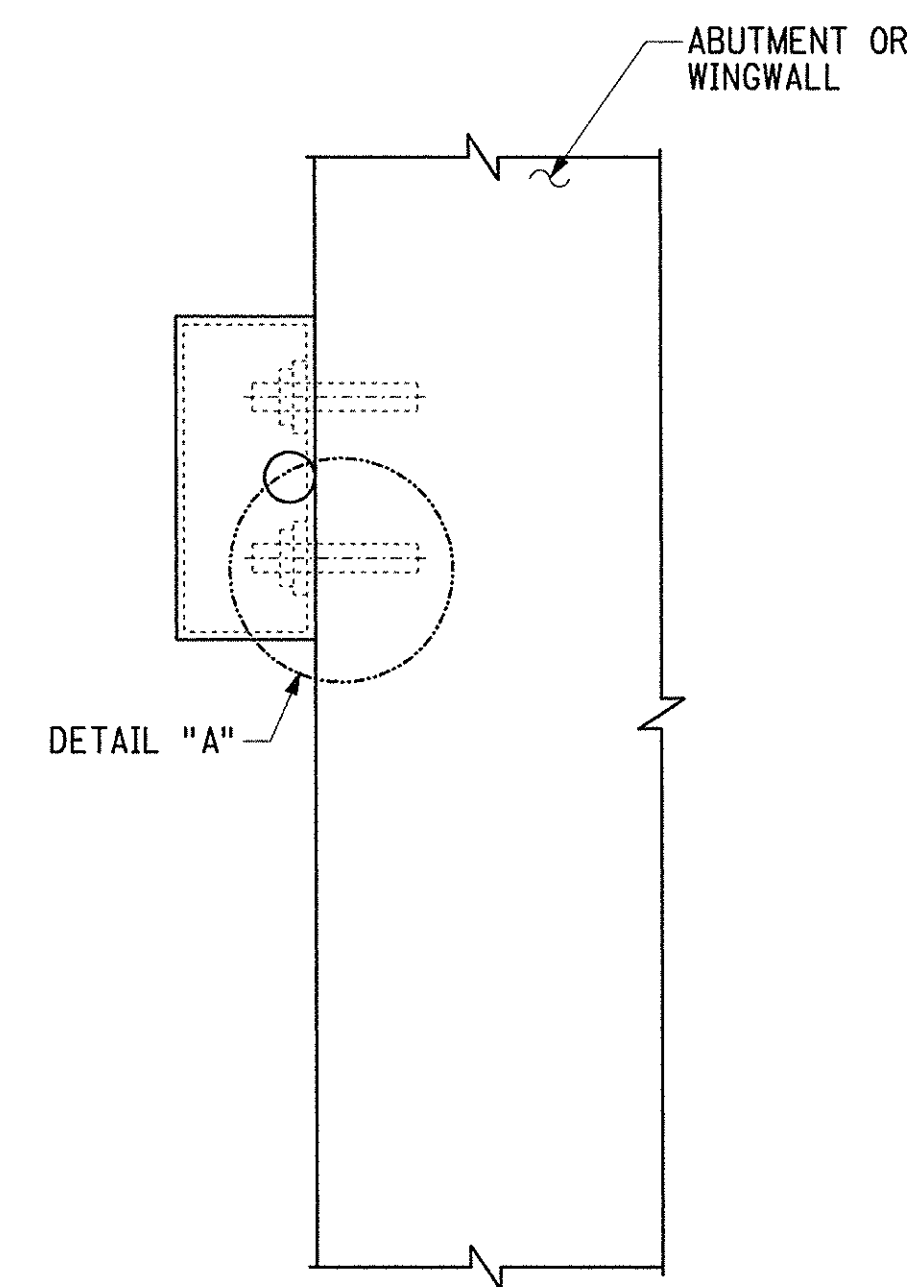


SIDE ELEVATION

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

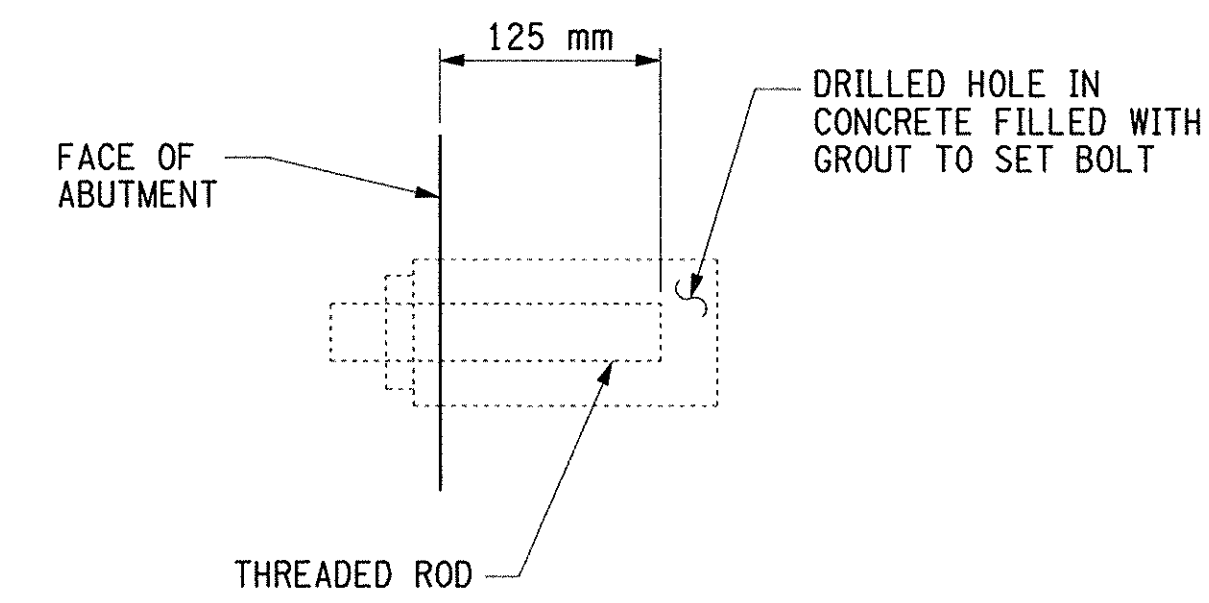


ELEVATION

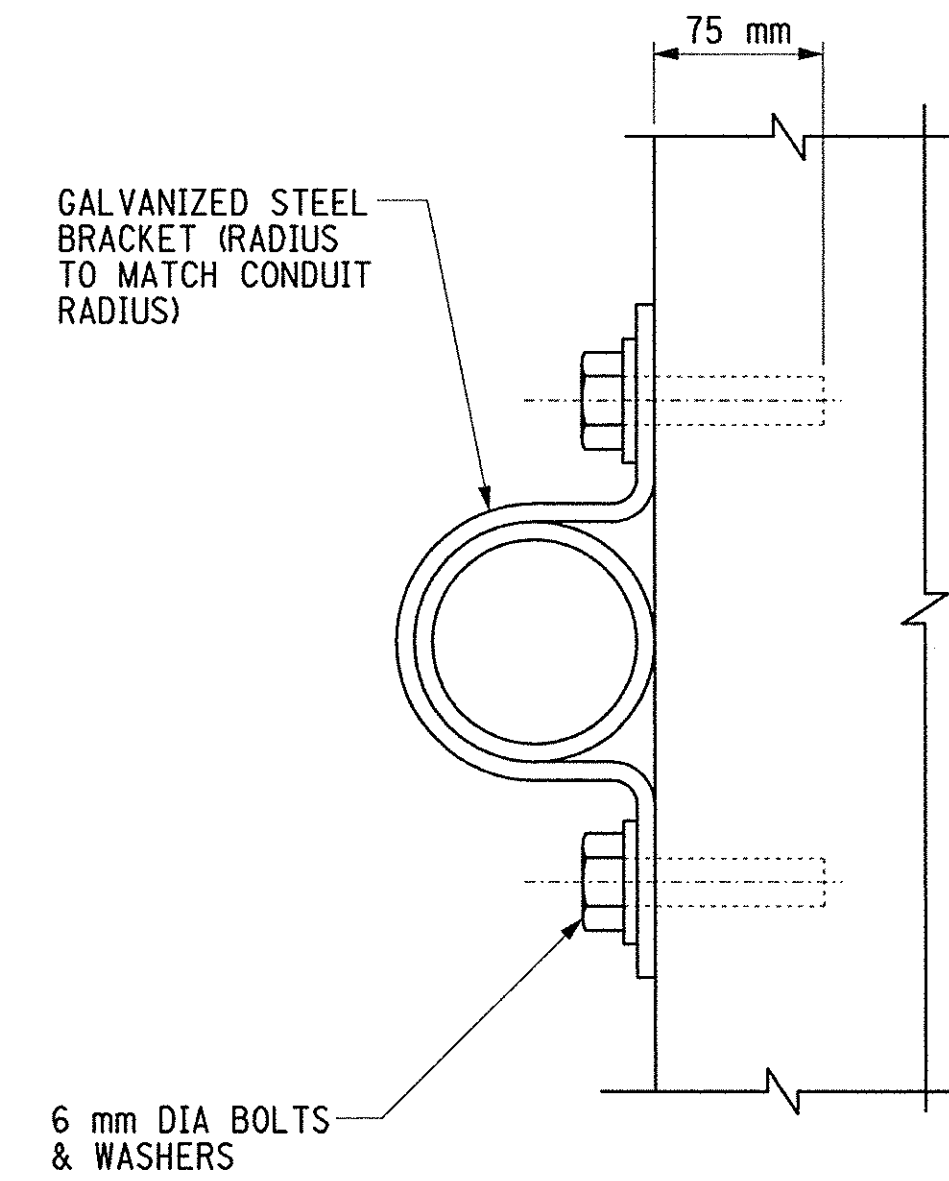


SIDE ELEVATION

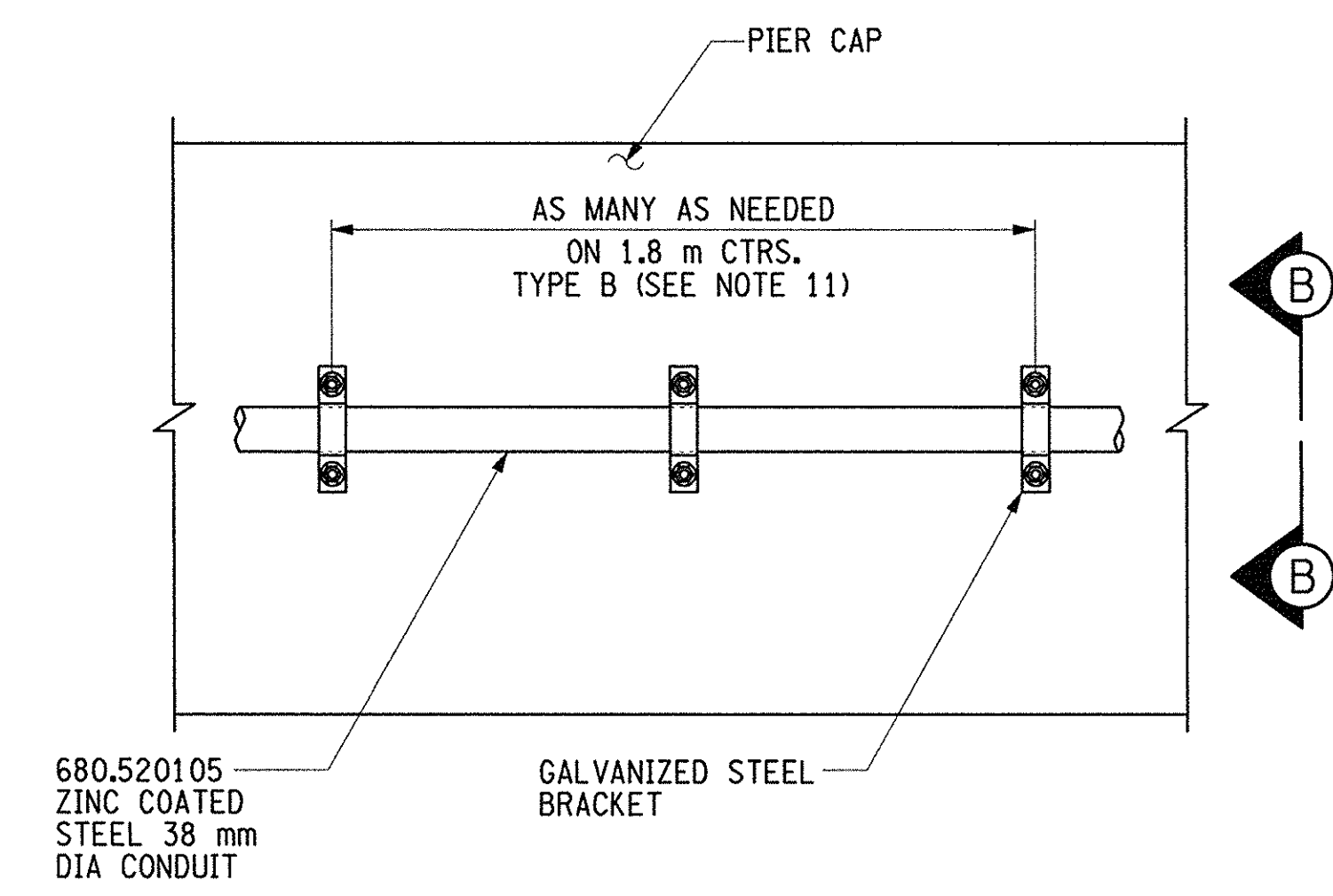
JUNCTION BOX & CONDUIT MOUNTED TO ABUTMENT OR WINGWALLS
SCALE: N.T.S.



DETAIL A



B-B



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

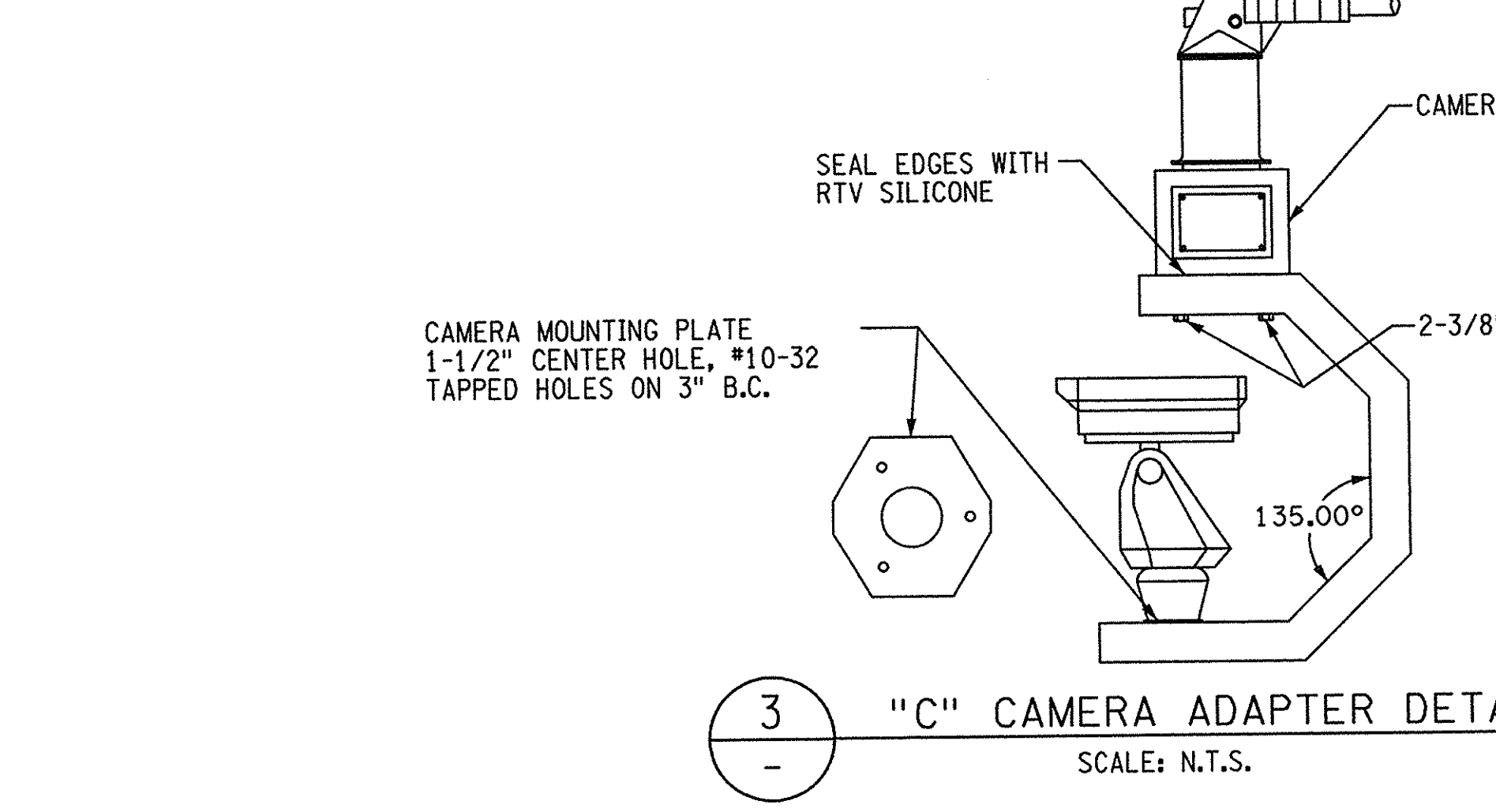
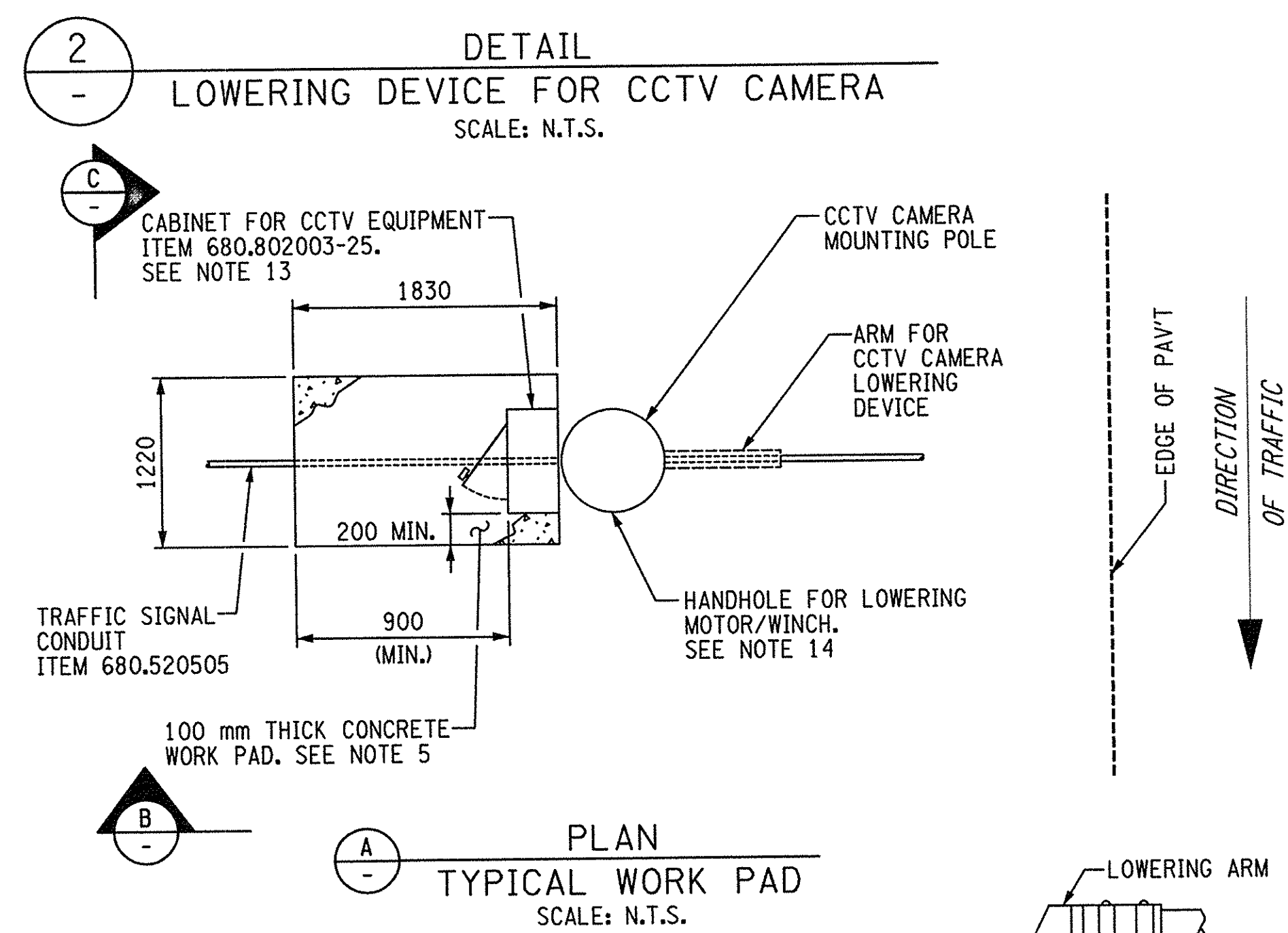
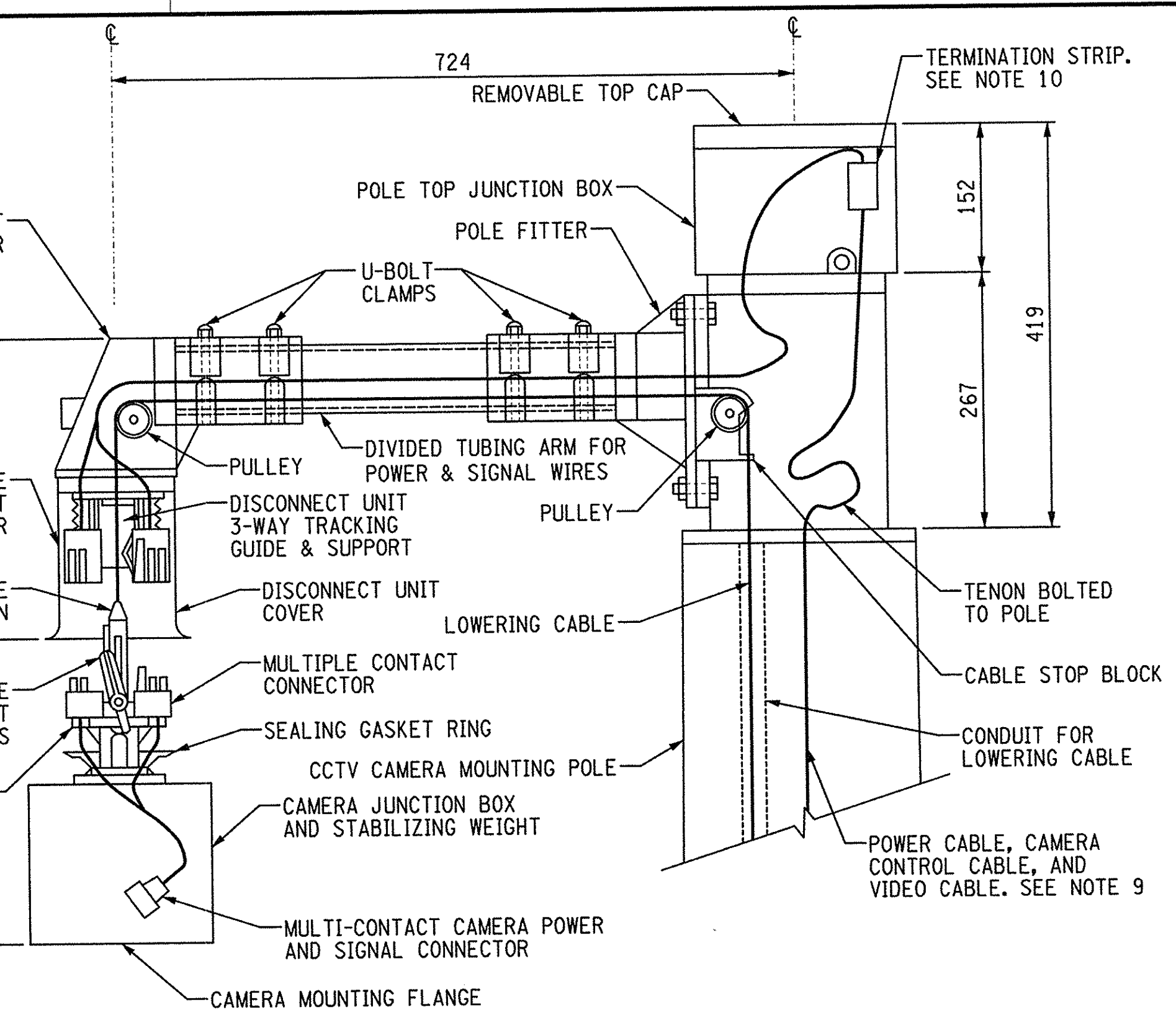
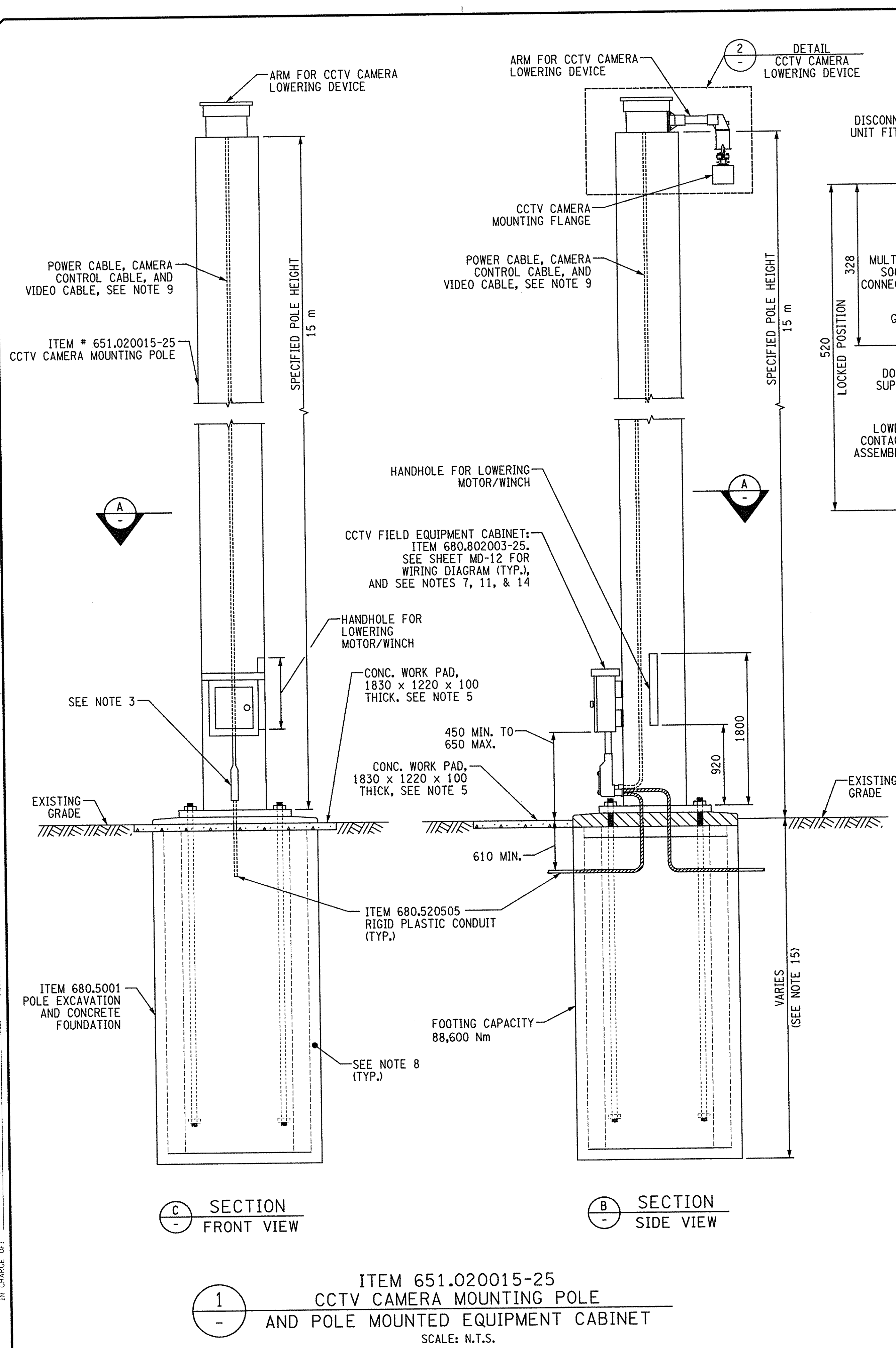
- NOTES:
1. THE CONTRACTOR SHALL SURVEY EACH BRIDGE AND SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.
 2. ALL SUPPORT MEMBERS, PLATES AND SHAPES SHALL BE GALVANIZED EXCEPT AS NOTED. GALVANIZED STEEL SHALL CONFORM TO SUBSECTION 719-01 OF THE STANDARD SPECIFICATIONS. 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.

NOTE: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

REVISIONS			
DATE	DESCRIPTION	BY	SYN
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 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: MD-1			



Plotted By: pbalasco
Design File: 9/23/2008
Plotted: 2:08:56 PM
Checked By: J. JOHNS
Designed By: M. CONLEY
IN CHARGE OF: J. JOHNS
Project: NY Highway Design
Node: BALASCO-SPI



- NOTES:
1. THE MINIMUM COVER FOR ELECTRICAL SERVICE CONDUIT SHALL BE 610 mm.
 2. PULL DISTANCES FOR COPPER CONDUCTORS SHALL BE LIMITED TO 60 m.
 3. THE MINIMUM F.O. CABLE BENDING RADIUS MUST BE MAINTAINED OR EXCEEDED WHEN INSTALLING F.O. THROUGH THIS FITTING.
 4. CONDUIT ENTRANCES TO THE EQUIPMENT CABINET SHALL BE SEALED WITH DUCT SEAL. COST OF THIS WORK SHALL BE INCLUDED IN THE CONDUIT ITEMS.
 5. WORK PADS SHALL BE PAID UNDER ITEM 608.010101-25.
 6. ELECTRICAL & COMMUNICATION CABLES & CONDUITS FROM UTILITY CO. POLE TO CAMERA POLE SHALL BE PAID UNDER THEIR RESPECTIVE ITEMS.
 7. FIELD EQUIPMENT CABINET, TRANSFORMER, AND DISCONNECT SHALL BE MOUNTED TO THE CCTV POLE. MOUNTING SCHEME SHALL BE SUBMITTED AND APPROVED PRIOR TO FABRICATION.
 8. FOR POLE FOUNDATION DETAILS SEE STANDARD SHEET M680-13R2.
 9. POWER, CONTROL, AND VIDEO CABLES FROM CAMERA TO FIELD CABINET SHALL BE INSTALLED INSIDE THE POLE. THE COST OF CABLES SHALL BE INCLUDED IN THE CAMERA ITEM. LOWERING CABLE SHALL BE IN ITS OWN SEPARATE CONDUIT INSIDE THE POLE. THE COST OF CONDUIT SHALL BE INCLUDED IN POLE ITEM.
 10. PROVIDE A TERMINAL STRIP IN POLE TOP JUNCTION BOX. TERMINATE CAMERA POWER AND CONTROL CONDUCTORS FOR FUTURE MAINTENANCE AND DIAGNOSTICS. COAXIAL VIDEO CABLE SHALL BYPASS THE TERMINAL STRIP.
 11. ALL EQUIPMENT CABINETS SHALL BE GROUNDED IN ACCORDANCE WITH NYSDOT STANDARD SHEET M680-4.
 12. ALL POLE ATTACHMENTS AND CONDUITS MUST BE COORDINATED WITH THE STEEL POLE MANUFACTURER.
 13. CABINET AND LOWERING DEVICE ORIENTATION SHALL BE AS SHOWN ON THE CCTV CAMERA PLAN SHEETS. IN NO CASE SHALL THE CABINET BE LOCATED SUCH THAT A USER FACING THE CABINET DOOR HAS THEIR BACK TO ON COMING TRAFFIC.
 14. WHERE POSSIBLE, LOCATE THE LOWERING DEVICE HANDHOLE SO THAT A USER FACING THE LOWERING DEVICE WILL NOT HAVE THEIR BACK TO TRAFFIC.
 15. MINIMUM EMBEDMENT SHALL BE 3.28 m FOR 15 m POLES AND 5 m FOR THE 27 m POLE.

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

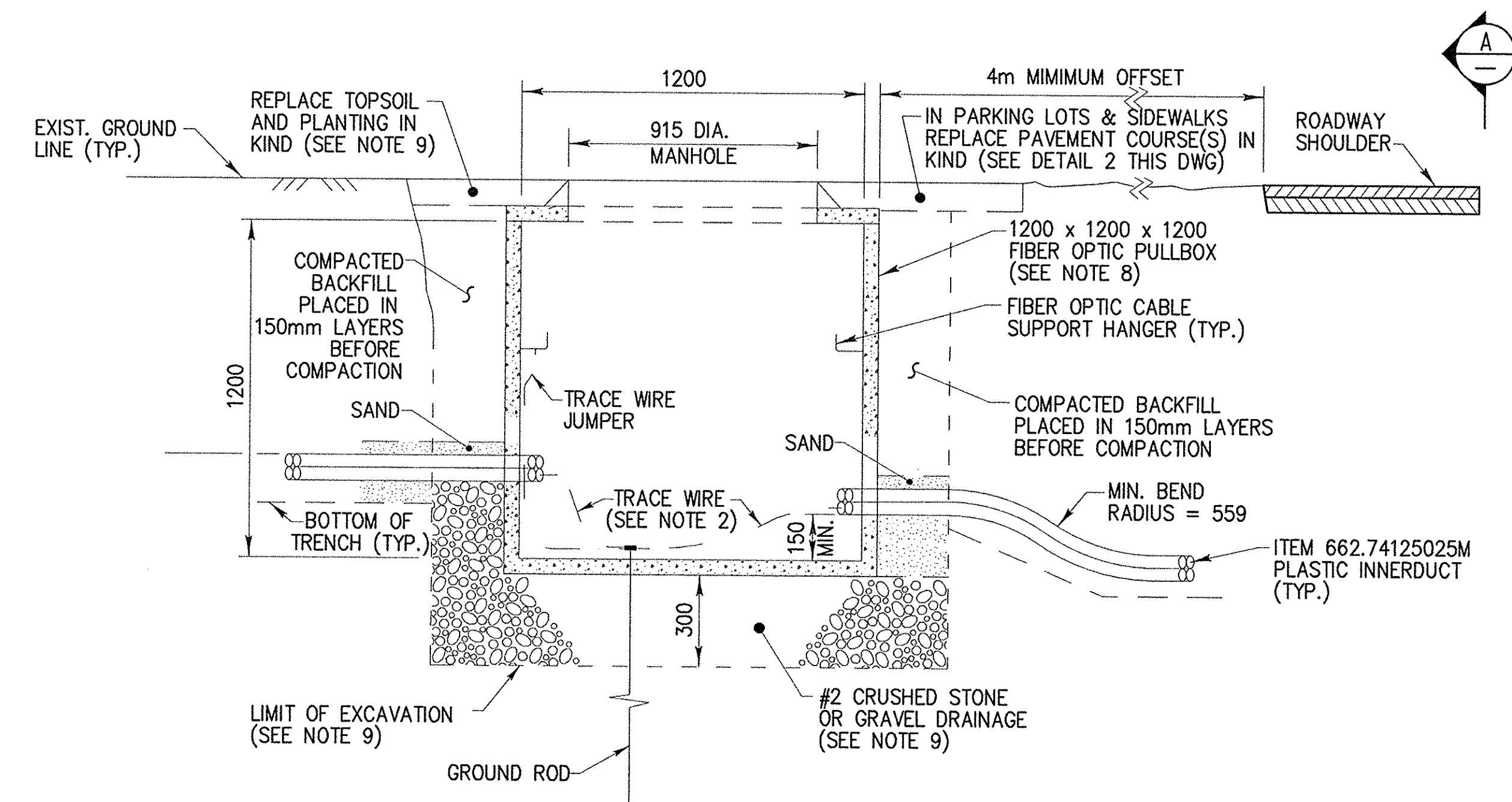
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. L.O.C. SYRACUSE DIV.			
LOCATION OF PROJECT VARIOUS SITES IN SYRACUSE DIV.			
TITLE OF DRAWING CCTV CAMERA MOUNTING POLE AND EQUIPMENT DETAILS			
CONTRACT NUMBER: TAS 08-32		DATE: JULY 30, 2008	
DRAWING NUMBER: MD-2			



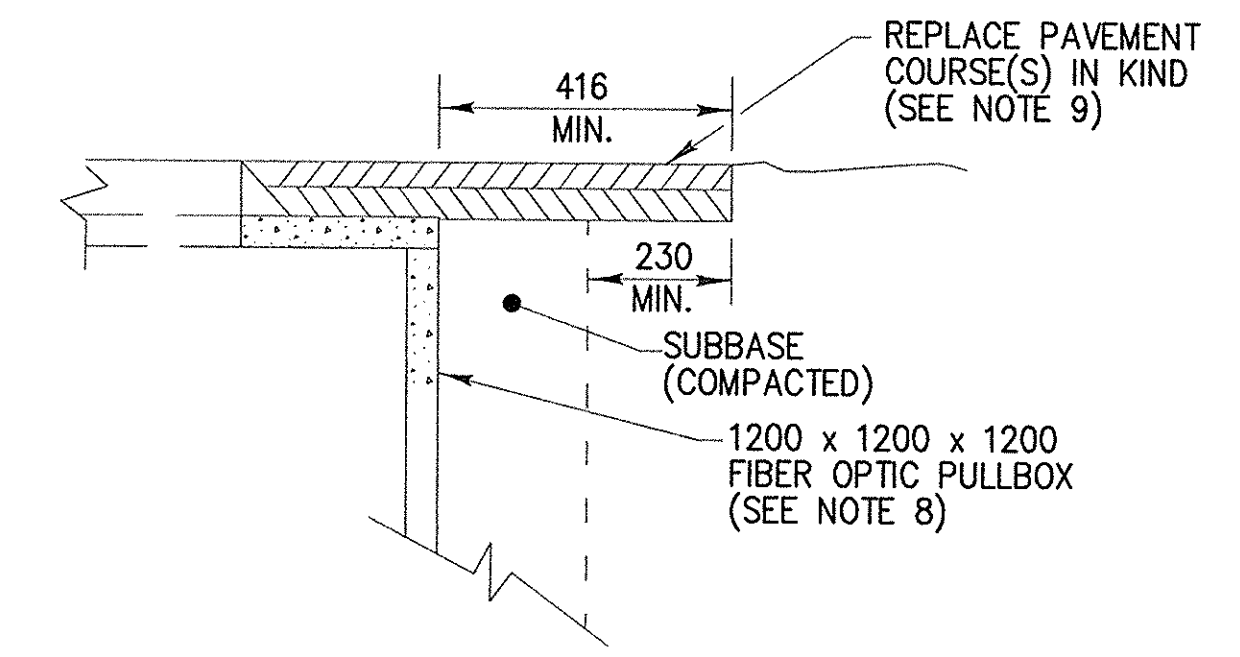
Plotted By: pbalasco
Project: NY Highway Design
Node: BALASCO-SPT
Discipline: NYSDOT
9/29/2008

Plotted By: pbalasco
Project: NY Highway Design
Node: BALASCO-SPT
Discipline: NYSDOT
9/29/2008

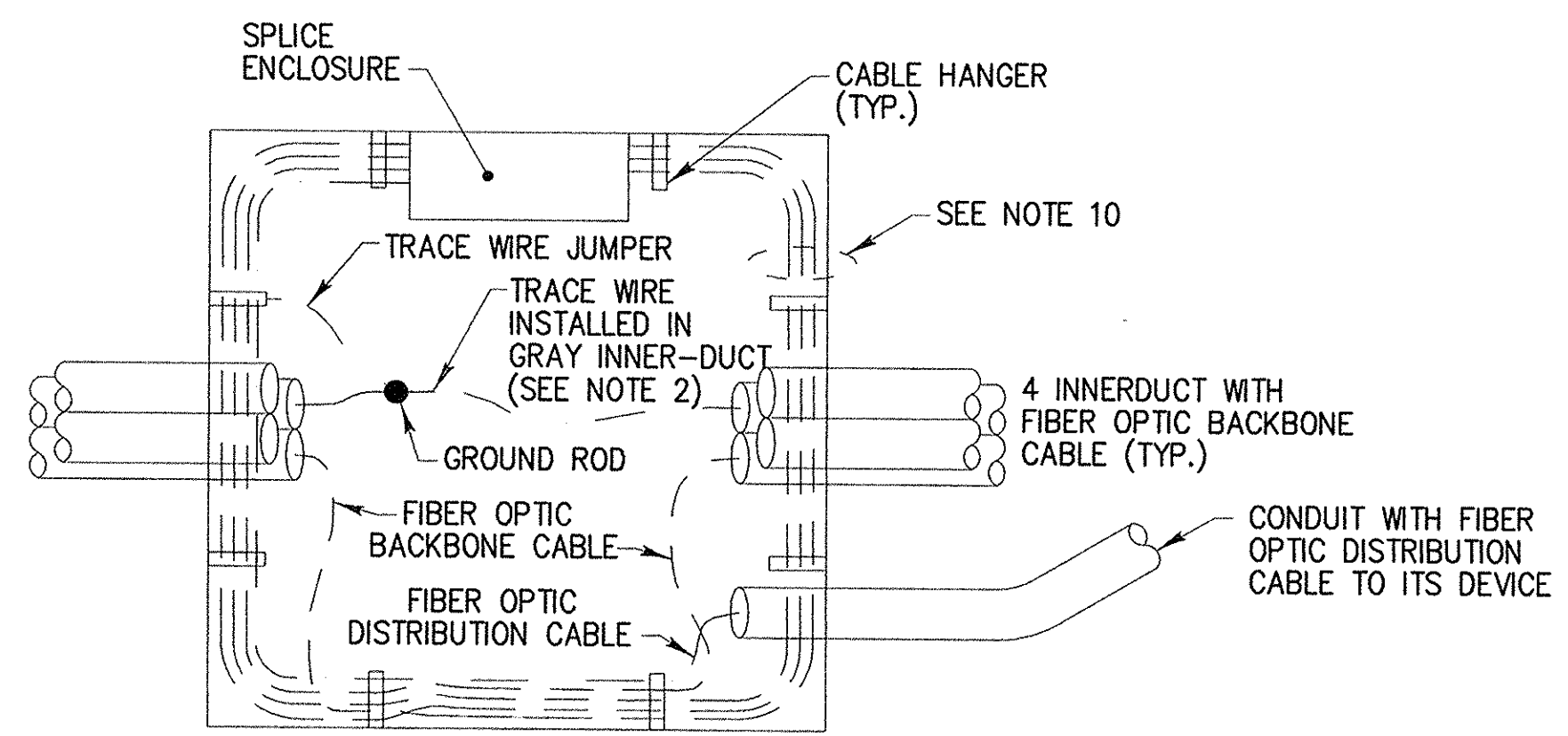
DESIGNED BY: J. JOHNS
CHECKED BY: P. BALASCO
DRAFTED BY: M. CONLEY
IN CHARGE OF: J. JOHNS



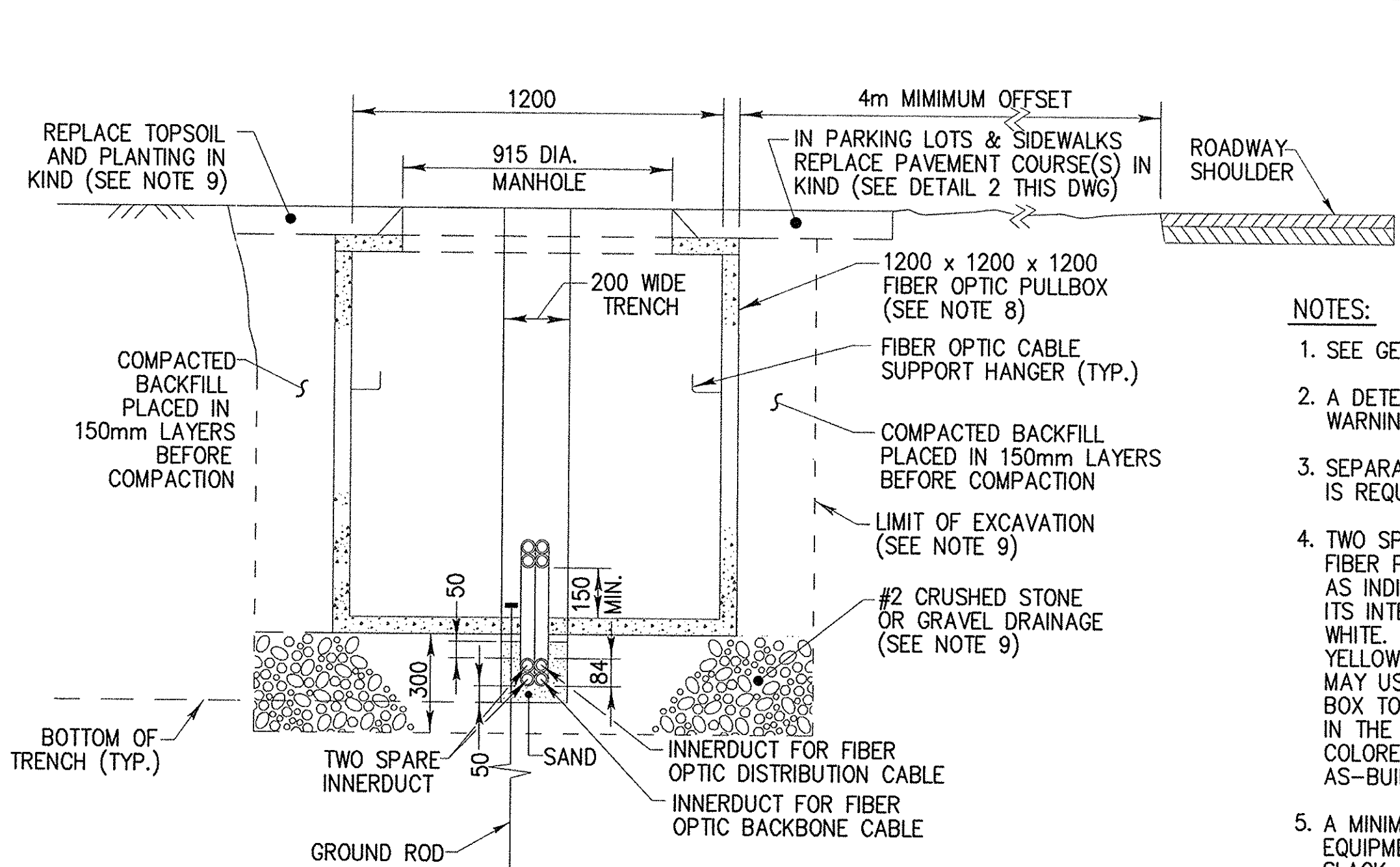
1 FIBER OPTIC PULLBOX
ITEM 680.5196--25M
NOT TO SCALE



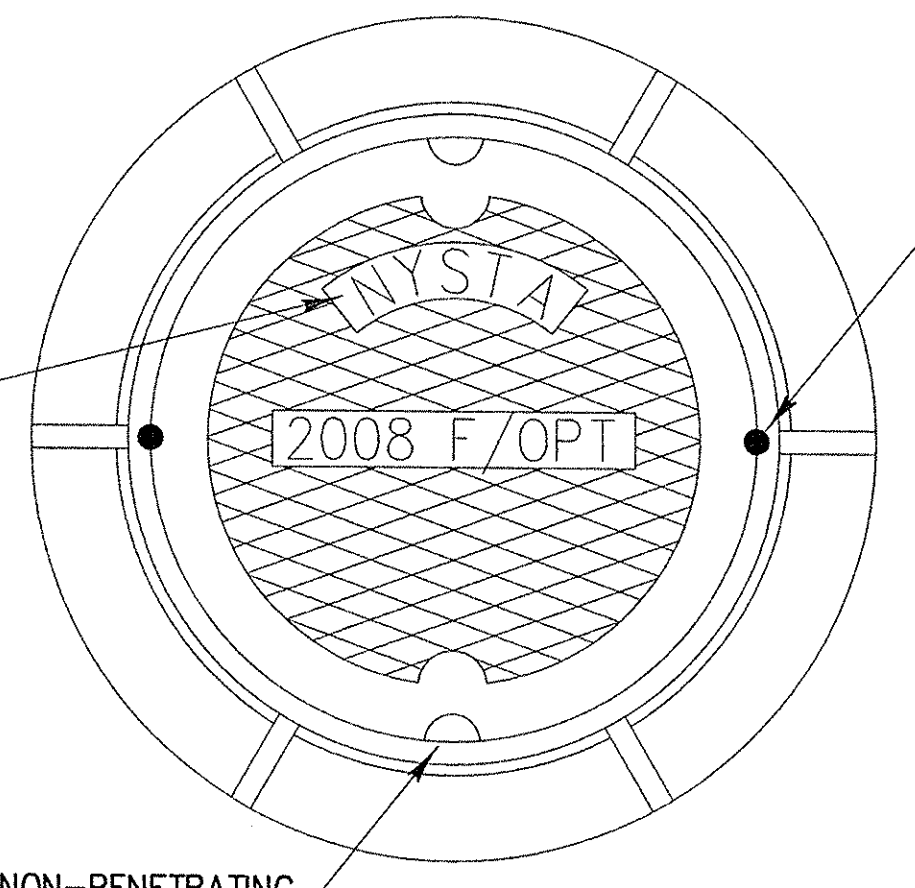
2 FIBER OPTIC PULLBOX ITEM 680.5196--25M
IN PARKING LOT OR SIDEWALK/WORK PAD
NOT TO SCALE



3 FIBER OPTIC PULLBOX WIRING
TOP VIEW
NOT TO SCALE

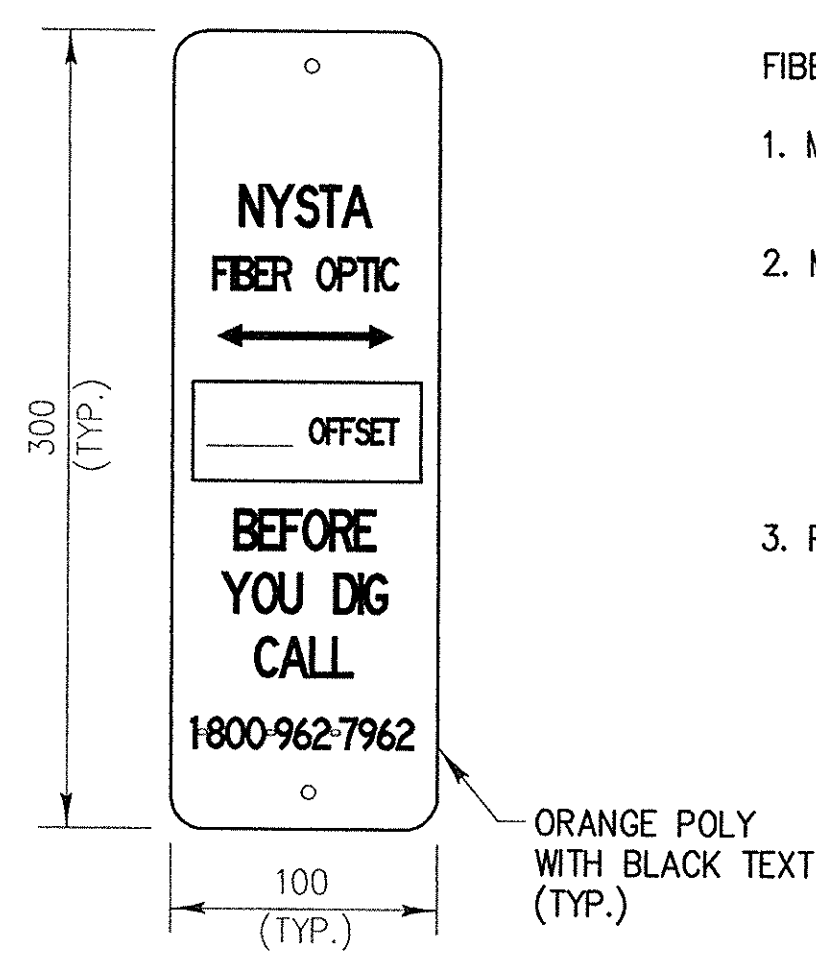


A SECTION
FIBER OPTIC TRENCH
DETAIL @ PULLBOX
NOT TO SCALE



4 FIBER OPTIC PULLBOX COVER DETAIL
NOT TO SCALE

- PULLBOX COVER NOTES:
- A) 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".
 - B) UNITS DESIGNED HEAVY DUTY FOR A.A.S.H.T.O. HS20-44 WHEEL LOADS.
 - C) EACH FRAME AND COVER SHALL HAVE MACHINED HORIZONTAL BEARING SURFACES.
 - D) LETTERING VARIES DEPENDING ON LOCATION. USE NITTEC NYSTA ON THRUWAY ROW, OR NITTEC NYSDOT ON NYSDOT ROW.



3 FIBER OPTIC CABLE PATH MARKERS
NOT TO SCALE

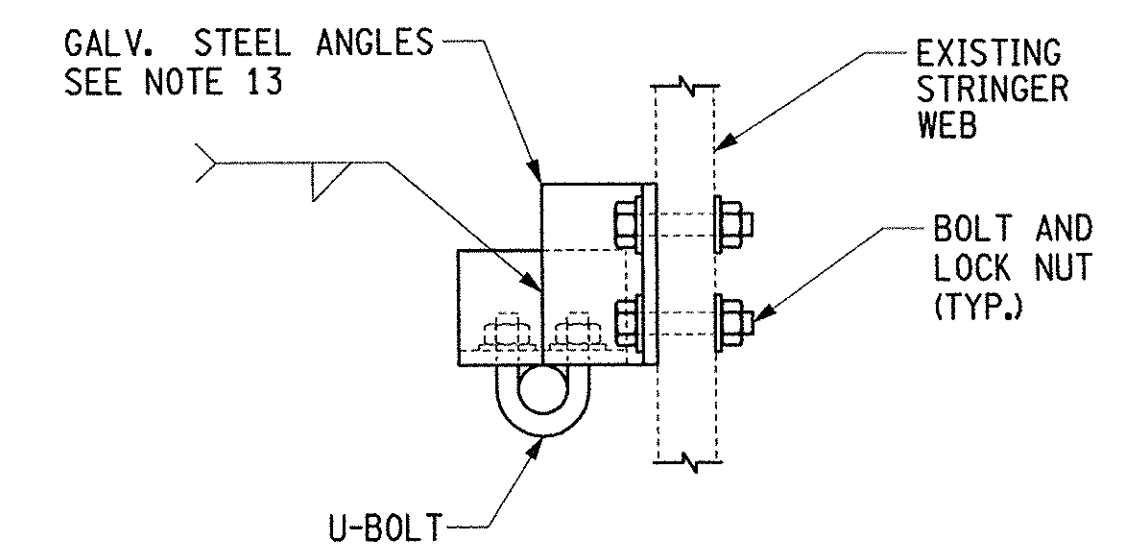
- FIBER OPTIC MARKER NOTES:
- 1. MARKERS SHALL BE SPACED A MAXIMUM OF 160m AND AT ALL ROADWAY CROSSINGS.
 - 2. MARKERS SHALL BE MOUNTED ON 2.1m GALVANIZED STEEL POSTS EXCEPT WHERE PERMANENT FIXED ROADSIDE OBJECTS EXIST WITHIN 10m OF THE FIBER PATH (SUCH AS ROW FENCE, NOISE WALLS/SCREENS, AND RETAINING 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.
 - 3. PATH MARKERS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 662.74125025M.

- NOTES:
- 1. SEE GENERAL NOTES ON DRAWING NO. GN-1 AND GN-2.
 - 2. A DETECTABLE MATERIAL SHALL BE PLACED IN ALL FIBER TRENCHING. WARNING TAPE IS TO BE PLACED IN TRENCH IN UNPAVED AREAS.
 - 3. SEPARATE CONDUIT SHALL BE INSTALLED WHERE TELEPHONE SERVICE IS REQUIRED.
 - 4. 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.
 - 5. A MINIMUM OF ONE TURN OF SPARE CABLE SHALL BE PLACED IN EQUIPMENT CABINETS. FIBER OPTIC PULLBOXES SHALL HAVE 35m OF SLACK COILED WITHIN.
 - 6. 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.
 - 7. THE MINIMUM EXCAVATION DEPTH SHALL BE REDUCED IN ORDER TO FACILITATE A SMOOTH TRANSITION FOR INNER DUCT ENTRY INTO PULLBOXES WHERE REQUIRED.
 - 8. 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.
 - 9. ALL EXCAVATION, BACKFILL MATERIAL, AND SURFACE RESTORATION, REQUIRED TO INSTALL THE PULLBOX SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 680.5196--25M.
 - 10. 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.)
 - 11. SEE DETAIL 4 THIS SHEET FOR FIBER OPTIC PULLBOX COVER RAISED LETTERING.
 - 12. TRACE WIRES SHALL BE TERMINATED IN ADJACENT ABOVE GROUND CABINET WHEN FEASIBLE, A.O.B.E.

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			





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



STV
Incorporated

Plotted By: pbalasco
Design File: Upd1925001386trnsportationdesigns\0\NOID\G464raving\MD5.DWG, SYR_05.mxd.dgn
Plotted: 9/29/2008 2:55:03 PM

Discipline: NYSDOT
Project: NY_Highway_Design
Model: BALASCO-SP1

File

J. JOHNS

CHECKED BY:

P. BALASCO

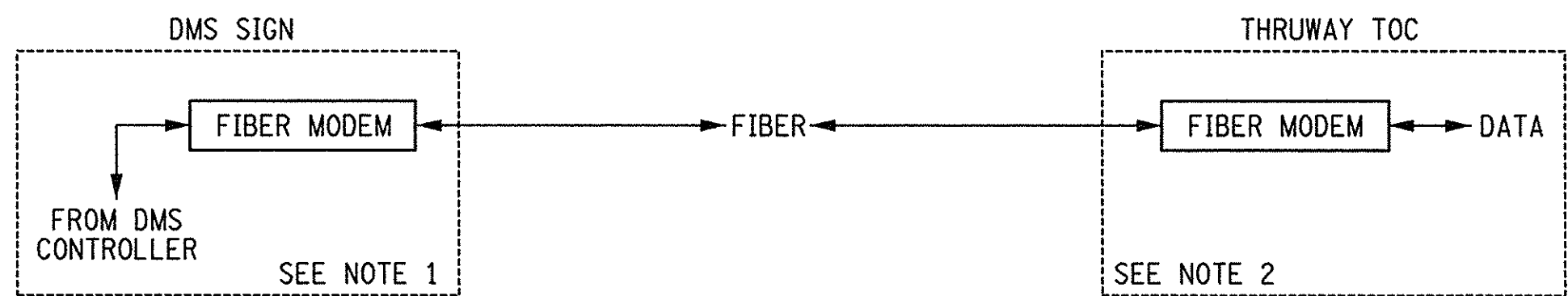
DRAFTED BY:

M. CONLEY

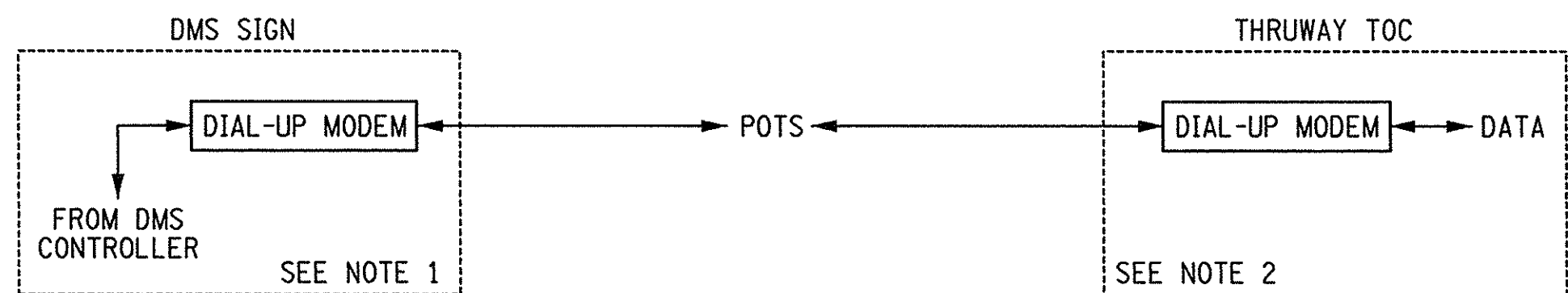
DESIGNED BY:

J. JOHNS

IN CHARGE OF:

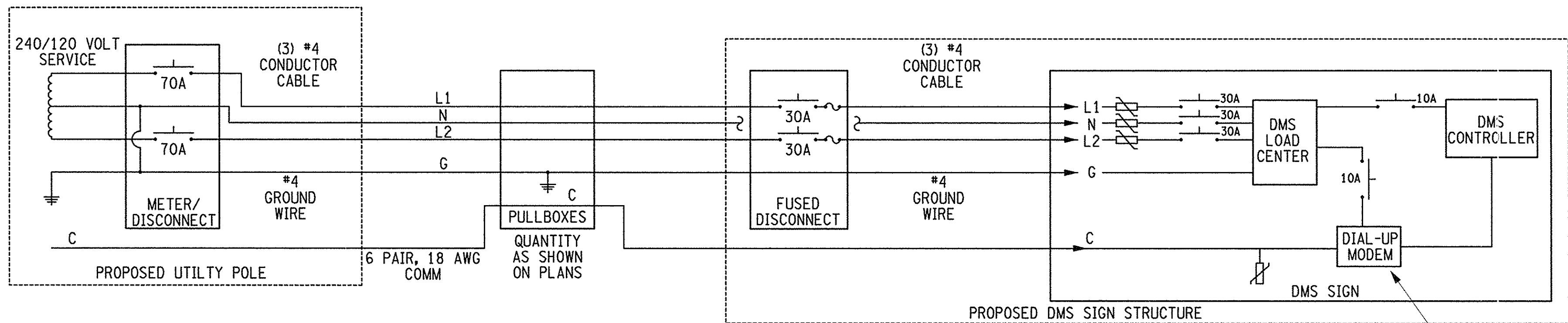


TYPE B COMMUNICATION
DMS TRANSMISSION VIA FIBER
NOT TO SCALE

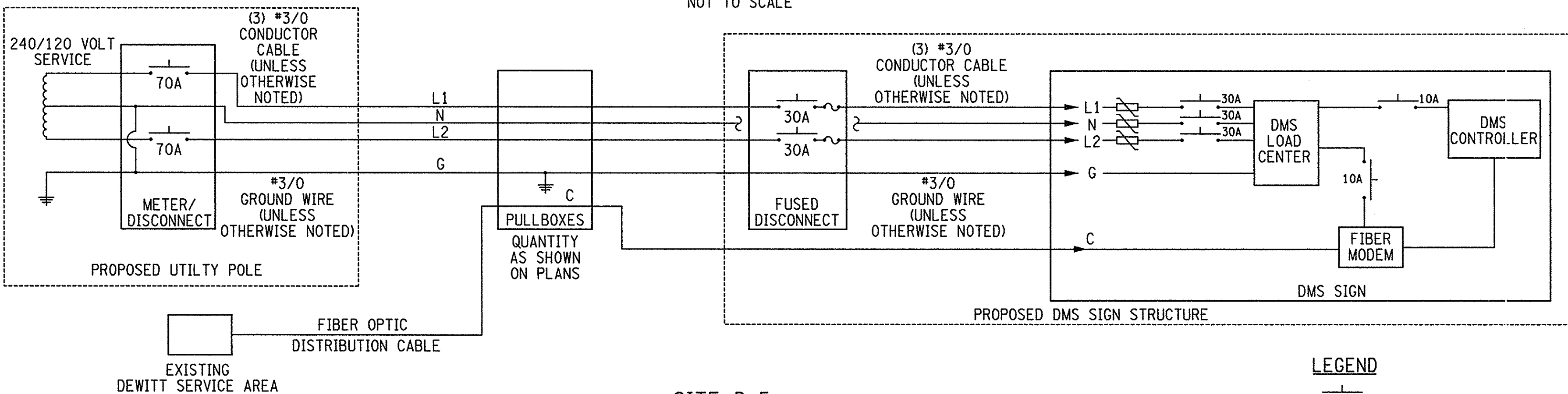


TYPE A COMMUNICATION
DMS TRANSMISSION VIA POTS
NOT TO SCALE

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



SEE NOTE 1



LEGEND

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

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

NOTES:

- 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.
- NYSTA SHALL PROVIDE AND INSTALL REQUIRED MODEM.
- ELECTRICAL SERVICE CABLES TO FIELD CABINETS AND GROUND WIRES SHALL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS AS SHOWN ON THE PLANS.
- ALL CABLES/WIRES WITHIN DMS SIGN, NOT MENTIONED ABOVE, SHALL BE PAID UNDER ITEM 645.4506--25M.
- ALL CIRCUITS AND BREAKERS SHALL BE CLEARLY LABELED.
- 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

- 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

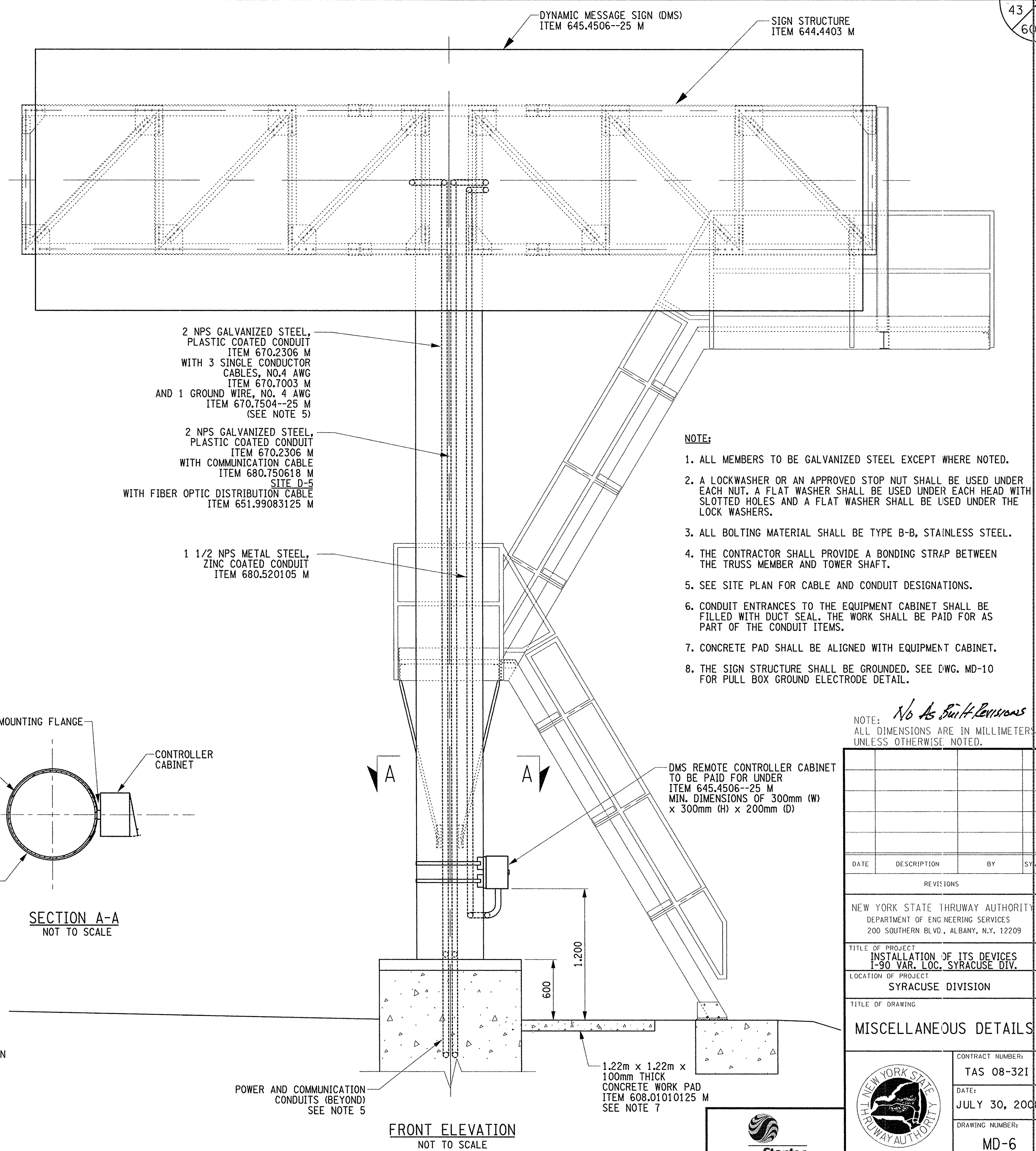
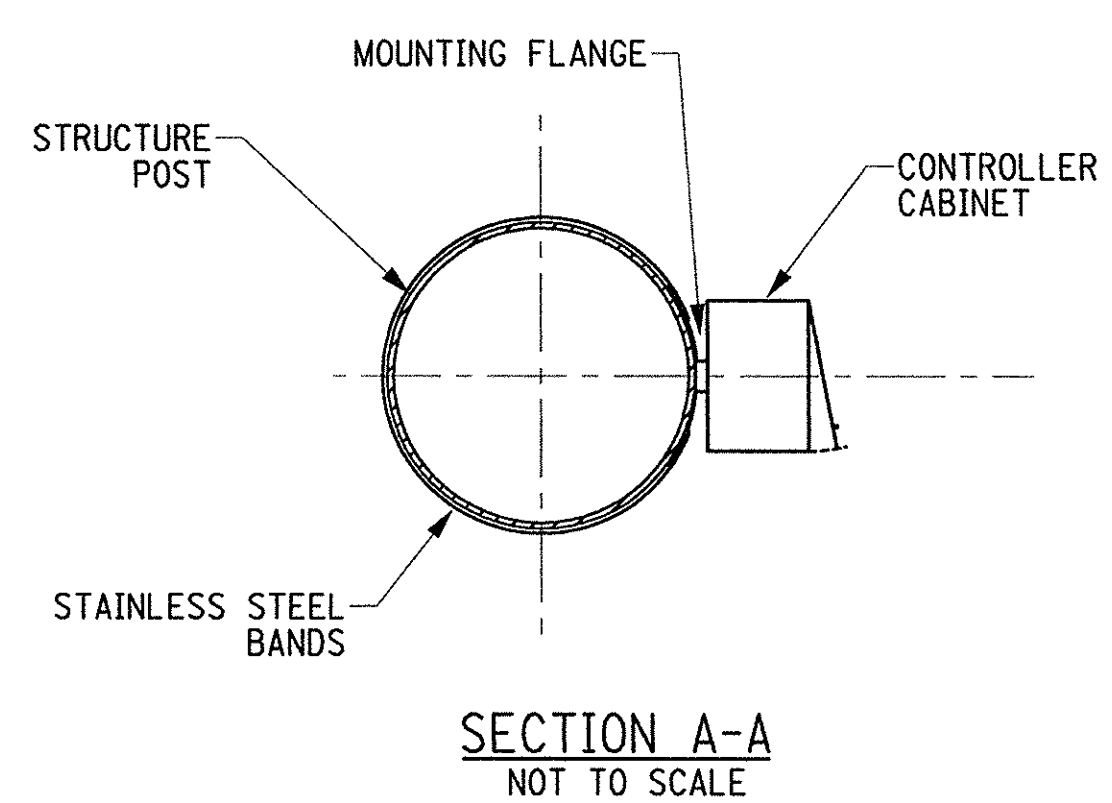
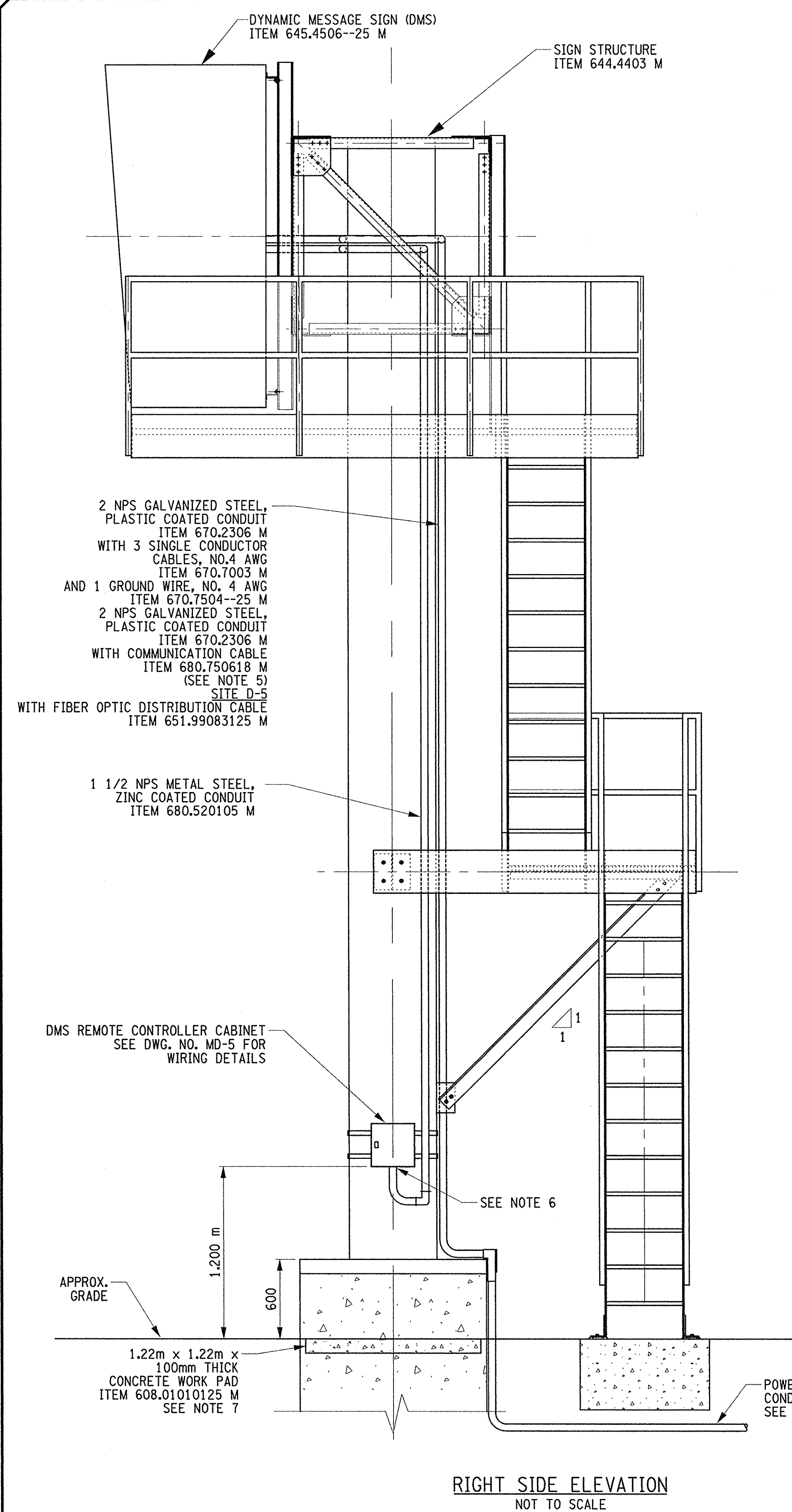
DATE	DESCRIPTION	BY	SYA
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING MISCELLANEOUS DETAILS			
CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: MD-5			



Plotted By: pbalasco
Design File: Upd19200013861r-onesp-r-toriondesigns\000\MD\GADR\aving\MD\DMS_SYP_06.mdt.dgn
Plot Date: 9/29/2008 2:59:05 PM

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

File J. JOHNS
Checked By: J. JOHNS
Drafted By: P. BALASCO
Designed By: M. CONLEY
In Charge Of: J. JOHNS



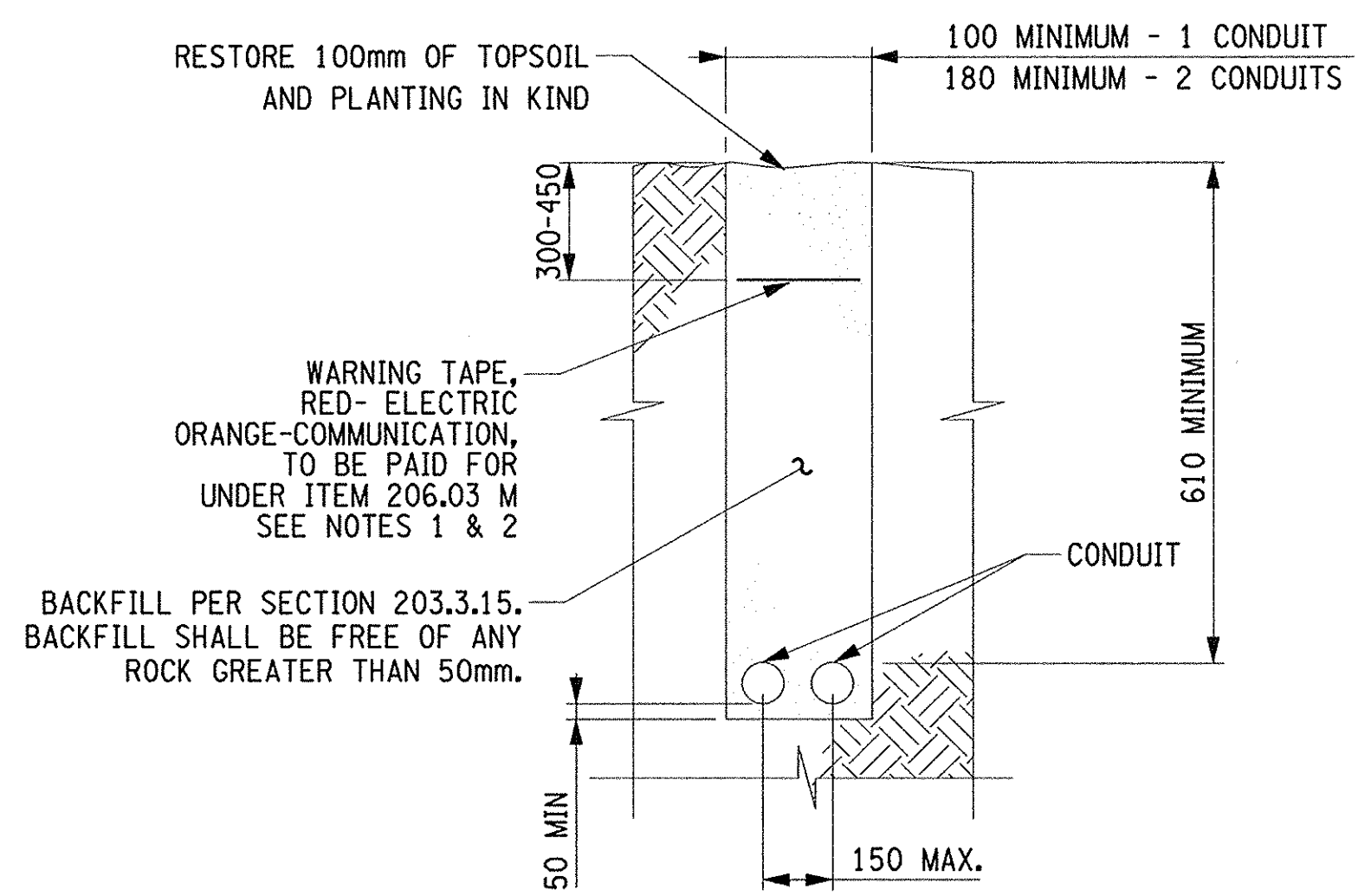
- NOTE:
1. ALL MEMBERS TO BE GALVANIZED STEEL EXCEPT WHERE NOTED.
 2. A LOCKWASHER OR AN APPROVED STOP NUT SHALL BE USED UNDER EACH NUT. A FLAT WASHER SHALL BE USED UNDER EACH HEAD WITH SLOTTED HOLES AND A FLAT WASHER SHALL BE USED UNDER THE LOCK WASHERS.
 3. ALL BOLTING MATERIAL SHALL BE TYPE B-B, STAINLESS 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.

NOTE: *No As Built Revisions*
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 MISCELLANEOUS DETAILS			
CONTRACT NUMBER: TAS 08-321			
DATE: JULY 30, 2008			
DRAWING NUMBER: MD-6			



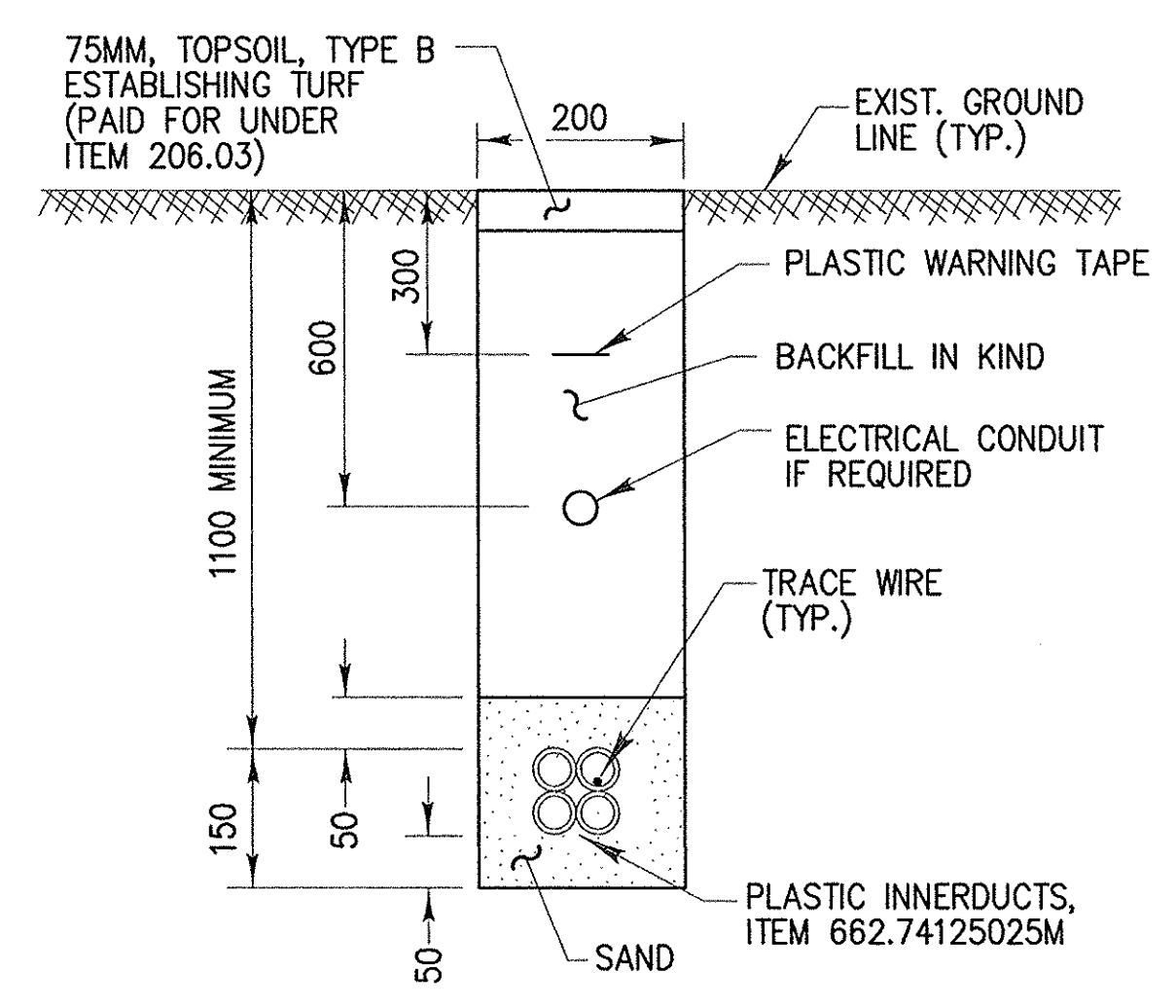
File
J. JOHNS
Checked By:
P. BALASCO
Designed By:
M. CONLEY
J. JOHNS
IN CHARGE OF:
Discipline: NYSDOT
Project: NY Highway Design
Model: BALASCO-SPI
Plotted By: pbalasco
Design File: 19250013861r-transportationdesigns\pbalasco\pbalasco.dgn
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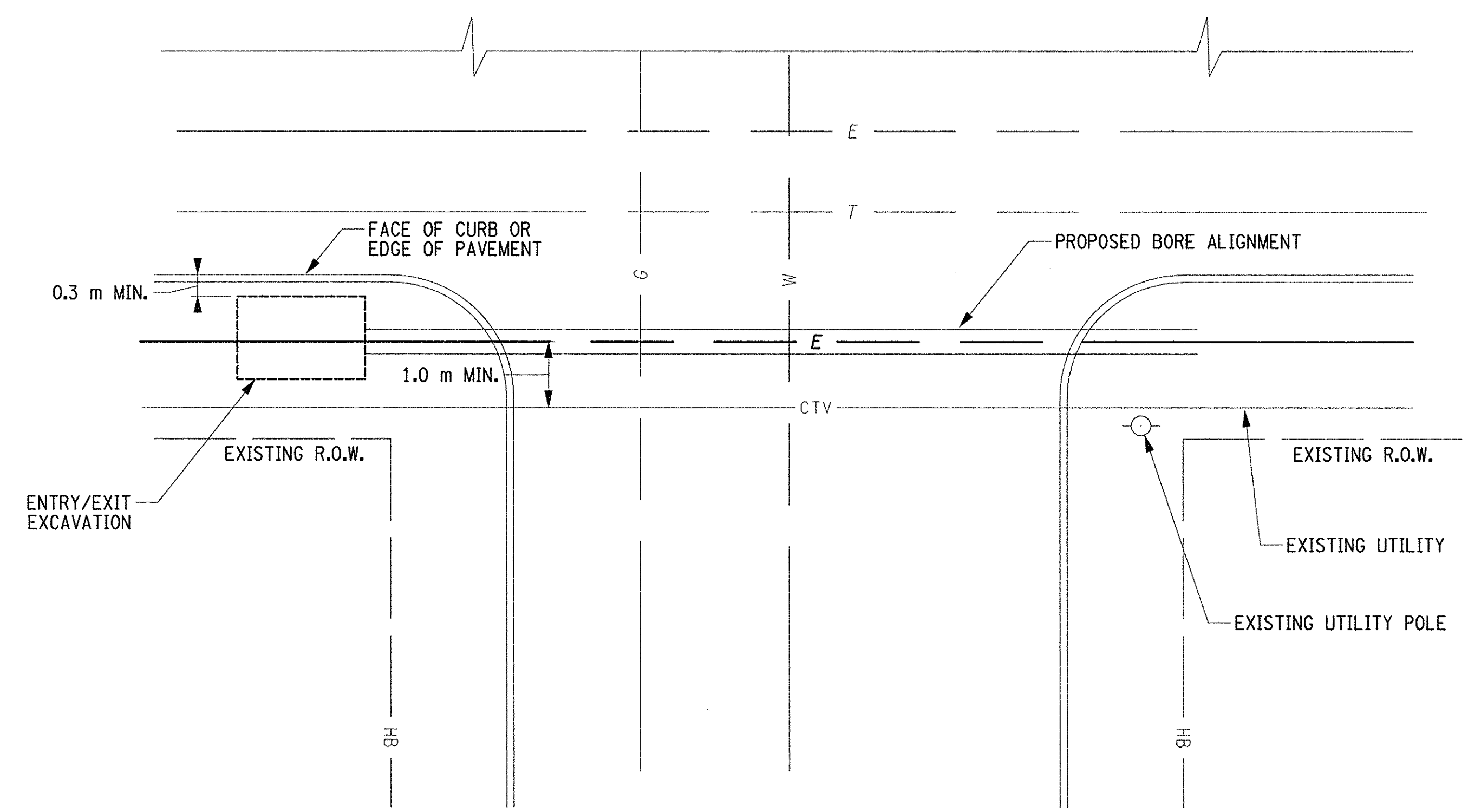
TYPICAL CONDUIT EXCAVATION AND BACKFILL DETAIL
(ELECTRIC AND NON-FIBER COMMUNICATION)
ITEM 206.03 M
NOT TO SCALE

NOTES:

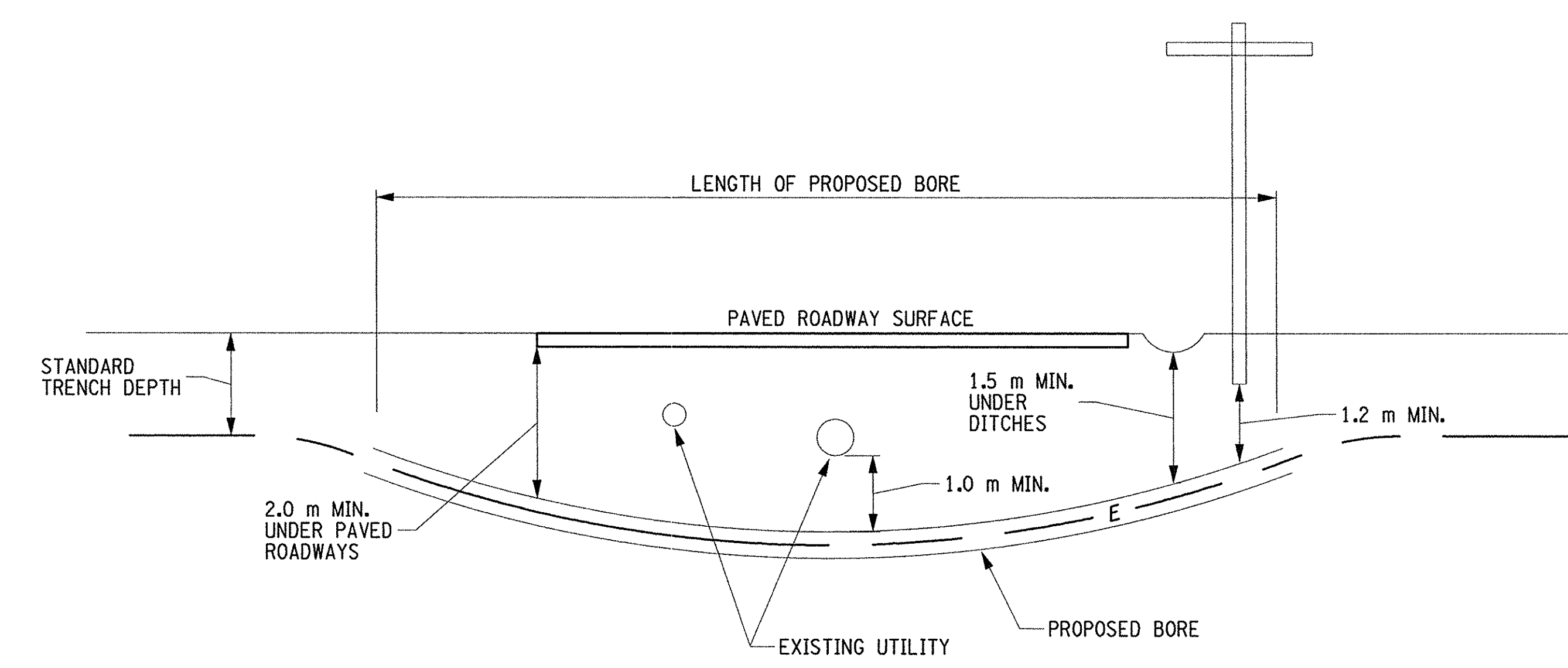
1. ALL UNDERGROUND PRIMARY CABLE SHALL BE MARKED IN THE TRENCH USING MARKING TAPE FURNISHED BY THE UTILITY COMPANY.
2. THE MARKING TAPE SHALL BE PLACED APPROXIMATELY 300mm TO 450mm BELOW FINISHED GRADE AS SHOWN, WHILE BACKFILLING CABLE TRENCH.
3. SELECTED BACKFILL OF ROCK-FREE SOIL SHALL BE PLACED IN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



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



TRENCHLESS INSTALLATION HORIZONTAL MINIMUM CLEARANCES
NOT TO SCALE



TRENCHLESS INSTALLATION VERTICAL MINIMUM CLEARANCES
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

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.

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

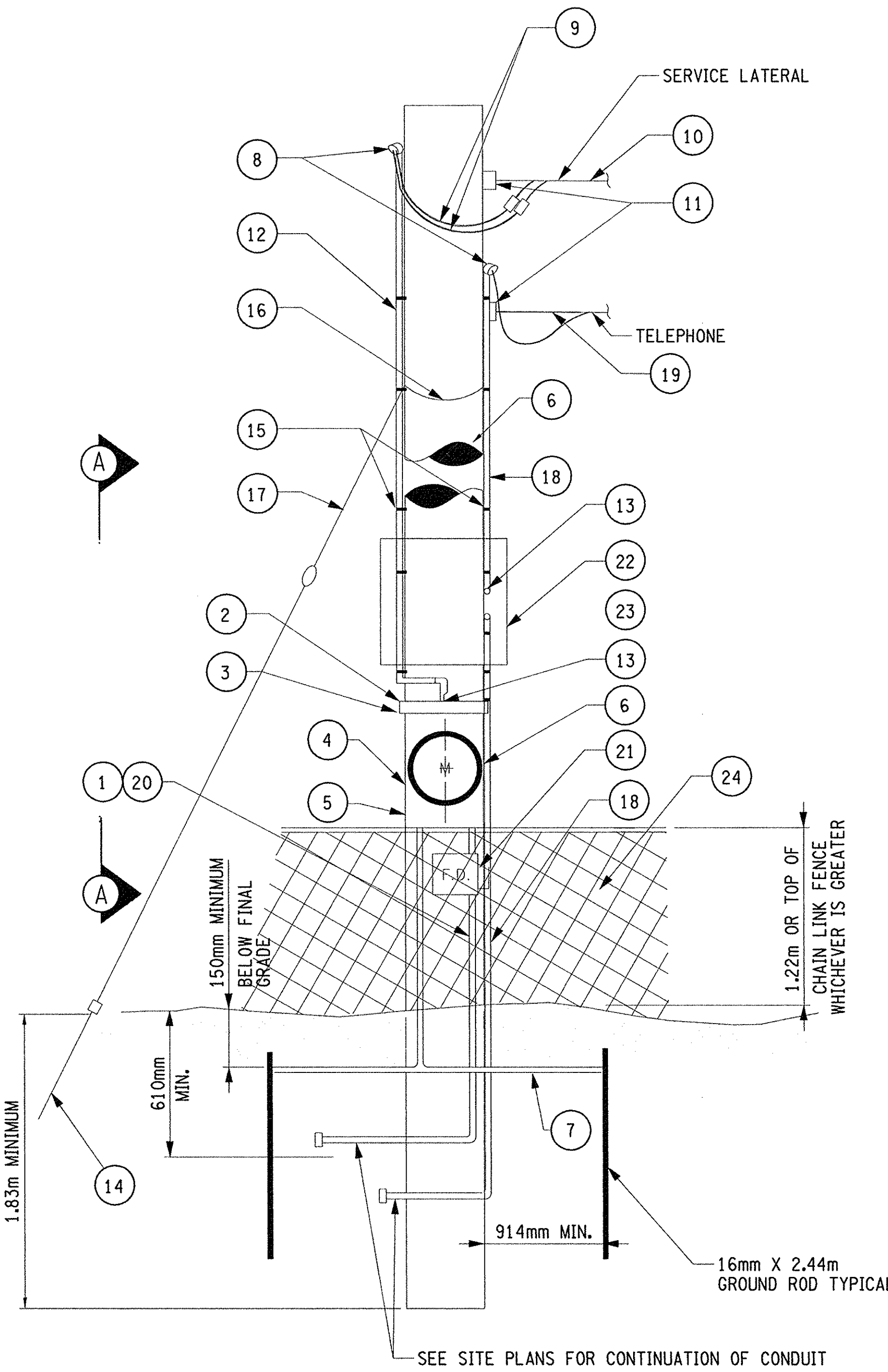
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REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING CONDUIT TRENCHING DETAILS			
CONTRACT NUMBER: TAS 08-32I		DATE: JULY 30, 2008	
DRAWING NUMBER: MD-7			



Discipline: NYSDOT
Project: NY_Highway_Design
Node: BALASCO-SPI

Plotted By: pbalasco
Design File: 9/29/2008 2:59:03 PM
Plotted: 9/29/2008 2:59:03 PM

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



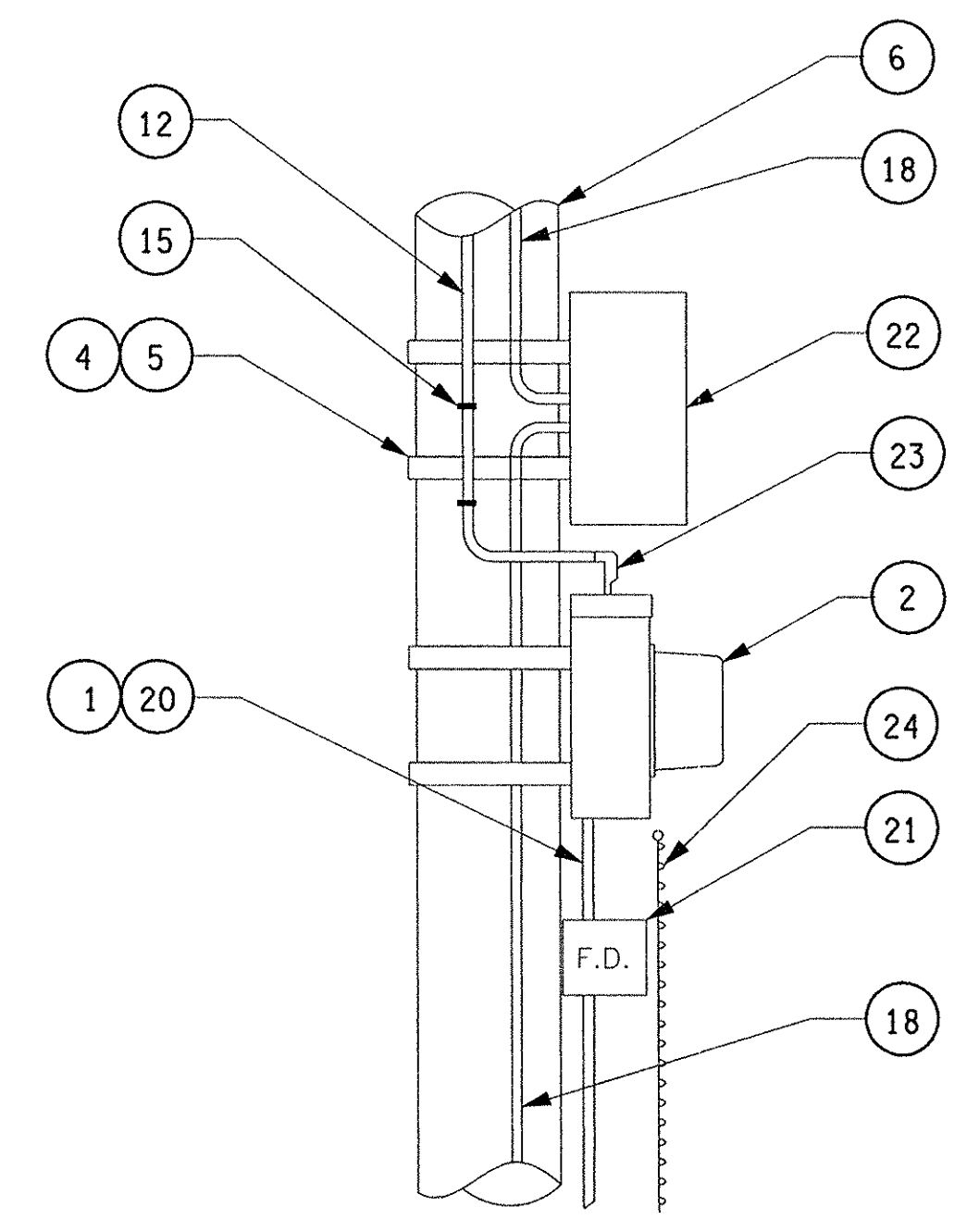
TYPICAL SERVICE POLE FOR AERIAL UTILITY SERVICE
ITEM 660.2003--25 M
NOT TO SCALE

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 RAIN TIGHT 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 Bldg. H. Revisions*
ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

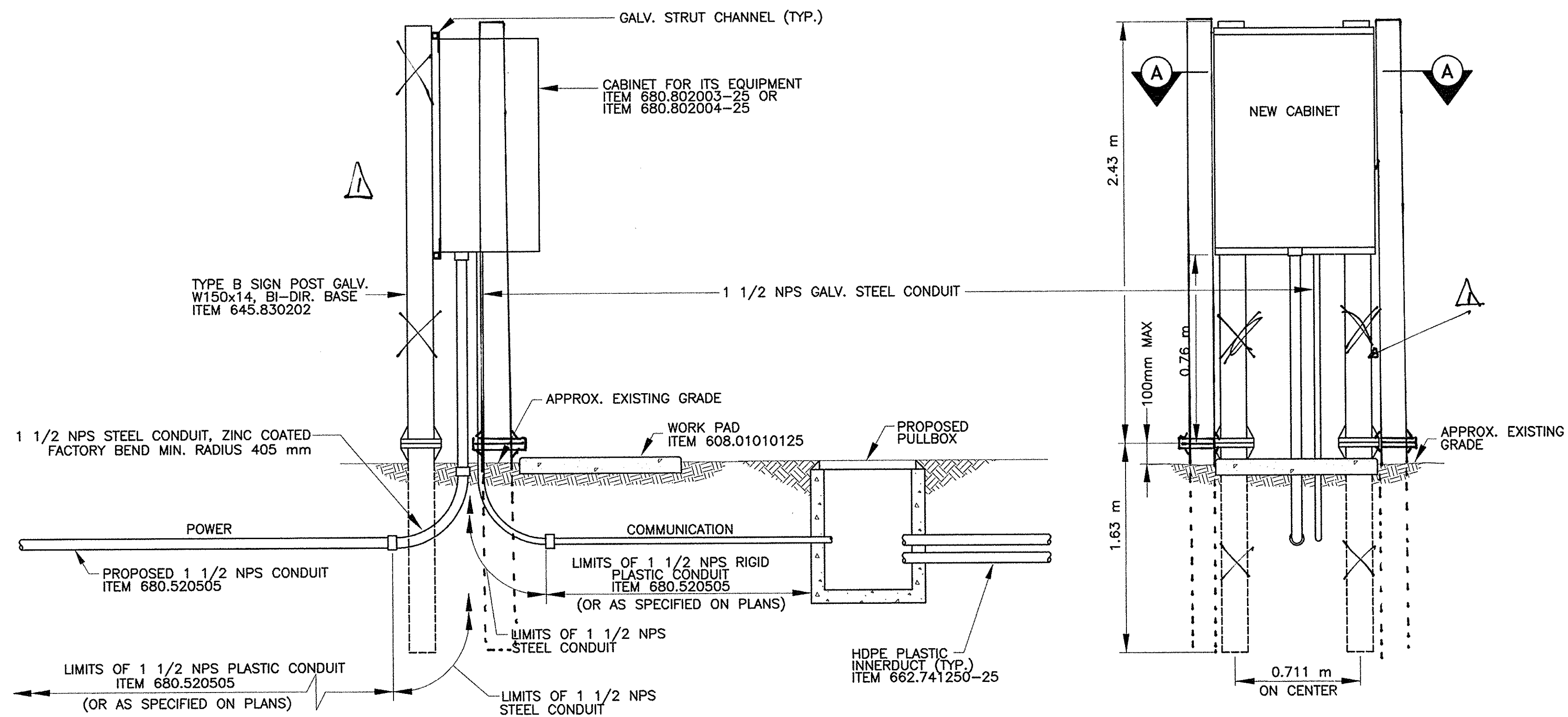
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LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING UTILITY SERVICE DETAILS			
		CONTRACT NUMBER:	TAS 08-321
		DATE:	JULY 30, 2008
		DRAWING NUMBER:	MD-8



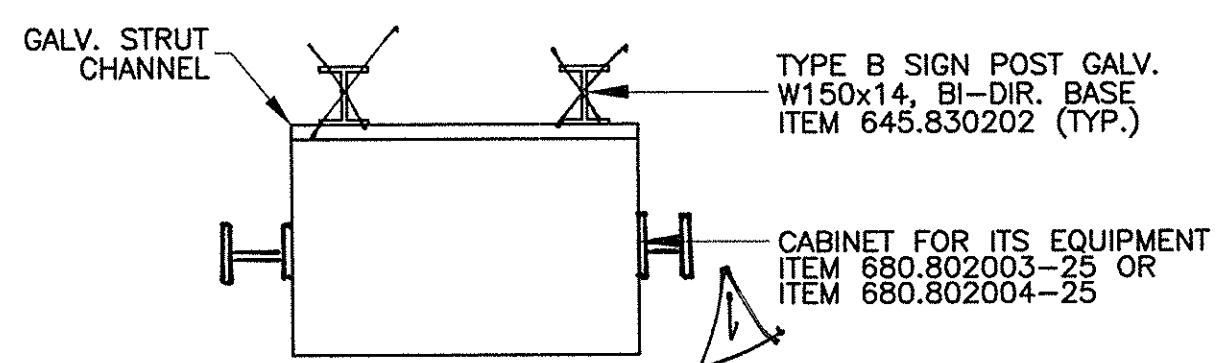
Plotted By: pbalasco
Design File: 9/23/2008
Plotted: 2:59:12 PM

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

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



FRONT ELEVATION



SECTION A-A

- 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.

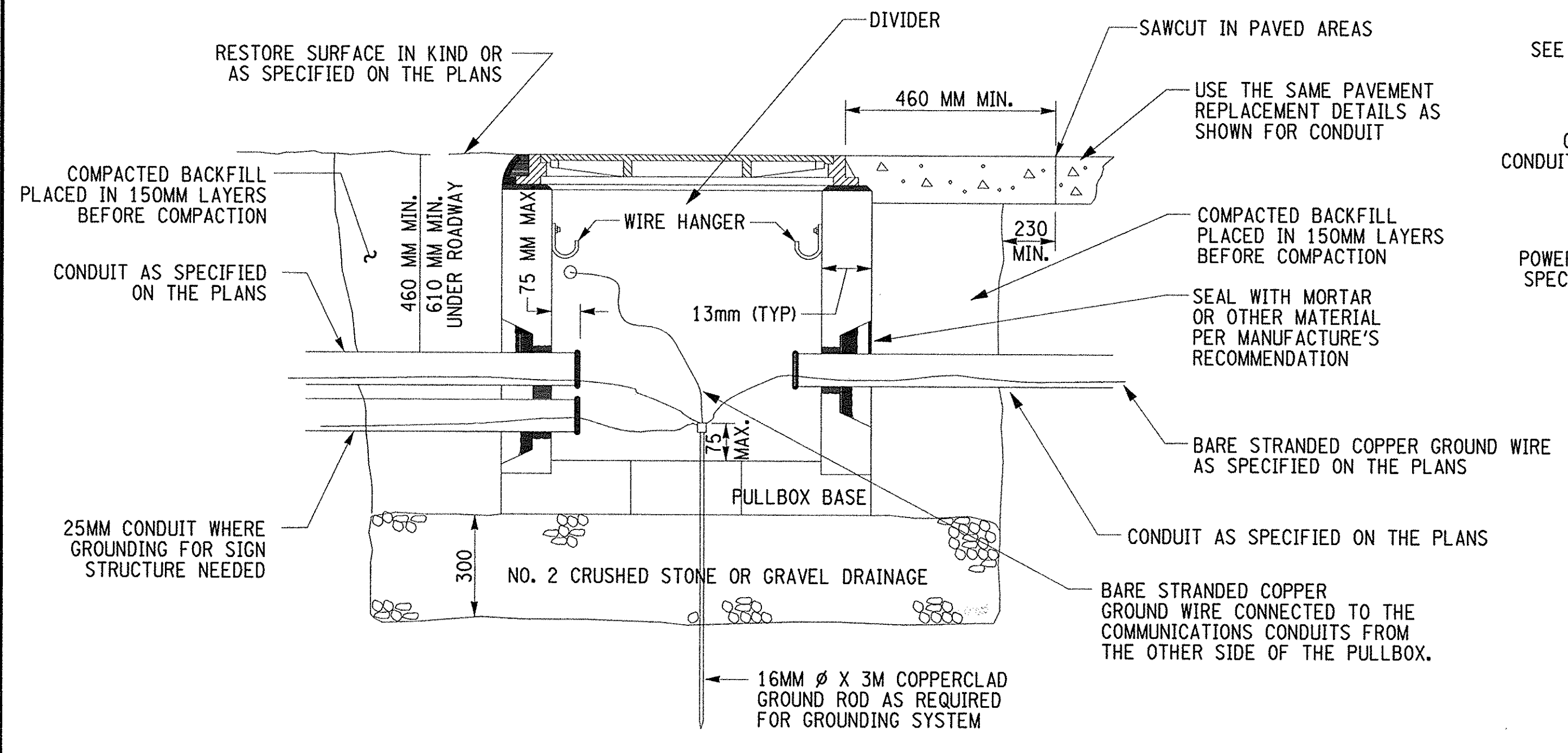
NEW TYPE "B" POST MOUNTED EQUIPMENT CABINET
AND CONDUIT CONNECTION
NOT TO SCALE

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

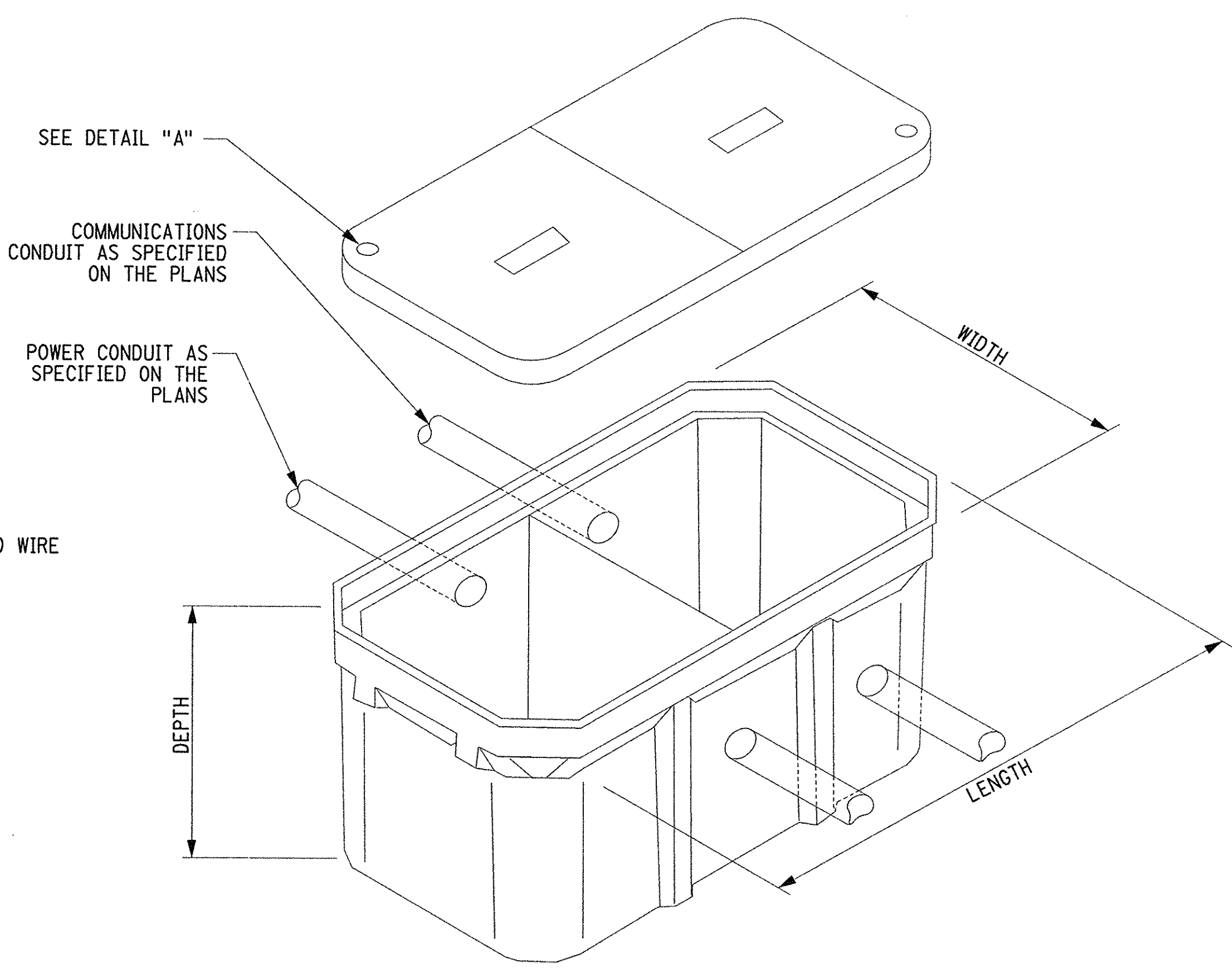
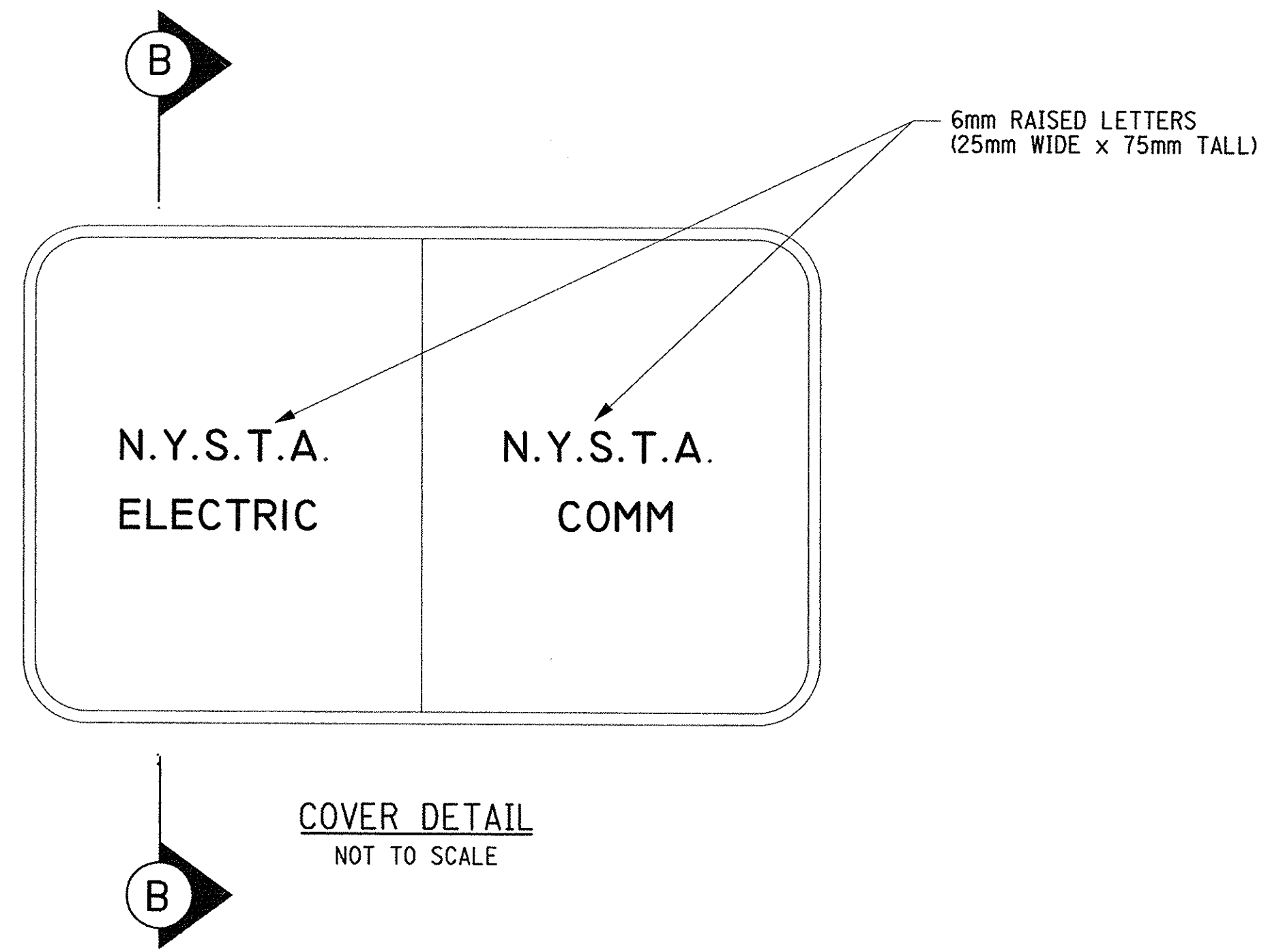
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DATE	DESCRIPTION	BY	S.M.
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TITLE OF PROJECT INSTALLATION OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING UTILITY SERVICE DETAILS			
		CONTRACT NUMBER:	TAS 08-321
		DATE:	JULY 30, 2008
		DRAWING NUMBER:	MD-9



Discipline: NYS001
Project: NY Highway Design
Model: BALASCO-SP1
Plotted By: pedasco
Design File: 9/29/2008 2:59:14 PM
Checked By: J. JOHNS
Designed By: M. CONLEY
J. JOHNS
IN CHARGE OF: J. JOHNS

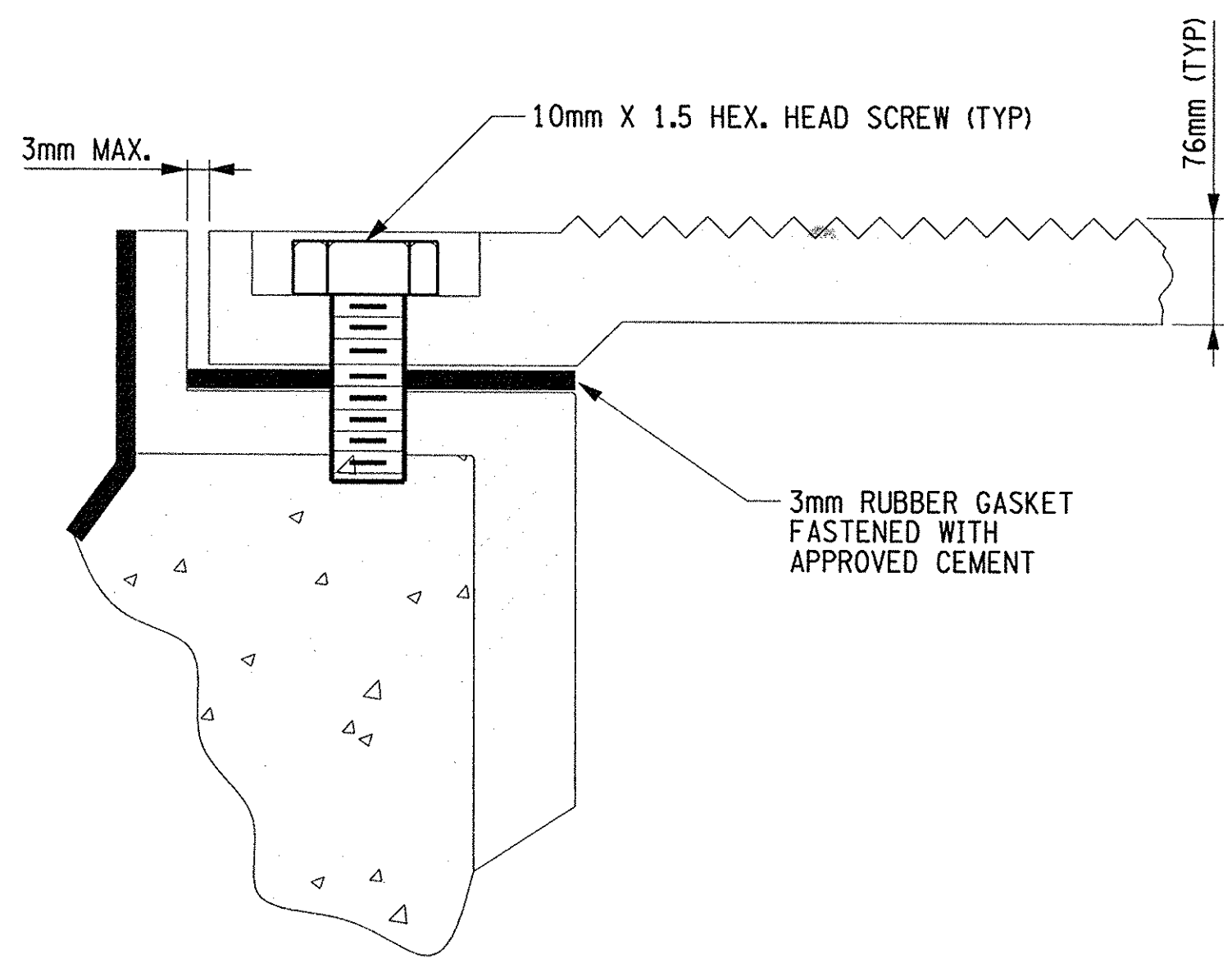


SECTION "B-B"
NOT TO SCALE



PULLBOX (NOMINAL)					
CONDUIT SIZE	LENGTH	WIDTH	DEPTH	TYPE*	ITEM #
25 - 76 mm	914mm	610mm	610mm	B	680.5109--25 M

DIVIDED PULLBOX WITH 50/50 SPLIT DETAIL
NOT TO SCALE



DETAIL A (TYP)
NOT TO SCALE

NOTES:
PULLBOXES

- PULLBOX BASES ARE REQUIRED ONLY FOR PULLBOXES PLACED IN THE PAVEMENT OR SHOULDER AND AS INDICATED ON THE PLANS. BASES, WHEN REQUIRED, MAY BE CAST INTEGRAL WITH THE PULLBOX.
- PULLBOXES MAY BE CAST-IN-PLACE IF THE FOLLOWING CONDITIONS ARE MET:
 - SAME INTERIOR SIZE AS THE PRECAST PULLBOX.
 - MINIMUM WALL THICKNESS OF 150mm.
 - CONCRETE PER 680-2.02
 - REINFORCING NOT REQUIRED.
 - BASES MAY BE CAST INTEGRAL.
 - WIRE HANGERS PER PRECAST PULLBOXES.
 - CONDUIT OPENINGS AS REQUIRED BY THE PLANS.
 - MIN. DEPTH THE SAME AS PRECAST PULLBOX.
 - AT LEAST THE TOP 150mm OF THE EXTERIOR SHALL BE FORMED.
- WIRING OTHER THAN GROUND WIRES SHALL BE SECURED TO THE WIRE HANGERS AND HELD CLEAR OF THE BOTTOM OF THE PULLBOX.
- PULLBOX EXTENSIONS MAY BE USED TO INCREASE PULLBOX DEPTH AS REQUIRED. EXTENSIONS SHALL BE ADDED AT THE BOTTOM. COST TO BE INCLUDED UNDER ITEM 680.5109-25.
- FRAMES AND COVERS SHALL BE HEAVY DUTY TO SUPPORT AN MS-18 WHEEL LOADING.
- A NON-SKID TEXTURE SHALL BE CAST INTO THE TOP SURFACE OF THE COVER.

GROUNDING

- THE NORMAL GROUND ROD LOCATION IS NEAREST TO THE POLE OR CABINET.
- METALLIC CONDUIT RUNS MAY BE BONDED TOGETHER TO SUPPLEMENT THE GROUND ROD PER SPECIFICATIONS.
- SECTIONAL GROUND RODS WITH COUPLINGS SHALL BE USED TO INCREASE GROUND ROD LENGTH.
- THE GROUND ROD INSTALLATION SHALL NOT BE PLACED IN THE PAVEMENT AND SHOULDER.

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

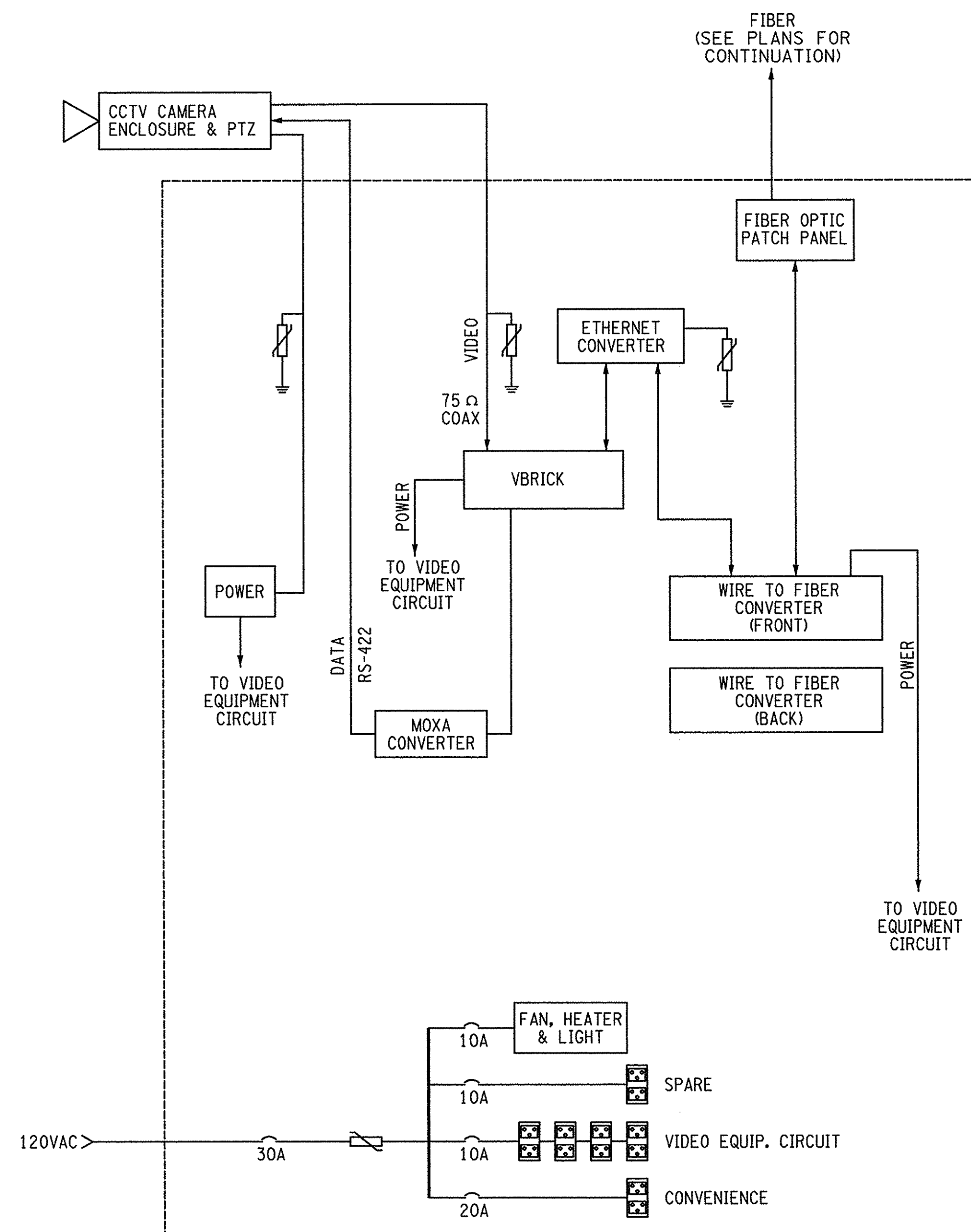
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LOCATION OF PROJECT SYRACUSE DIVISION			
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CONTRACT NUMBER: TAS 08-321		DATE: JULY 30, 2008	
DRAWING NUMBER: MD-10			



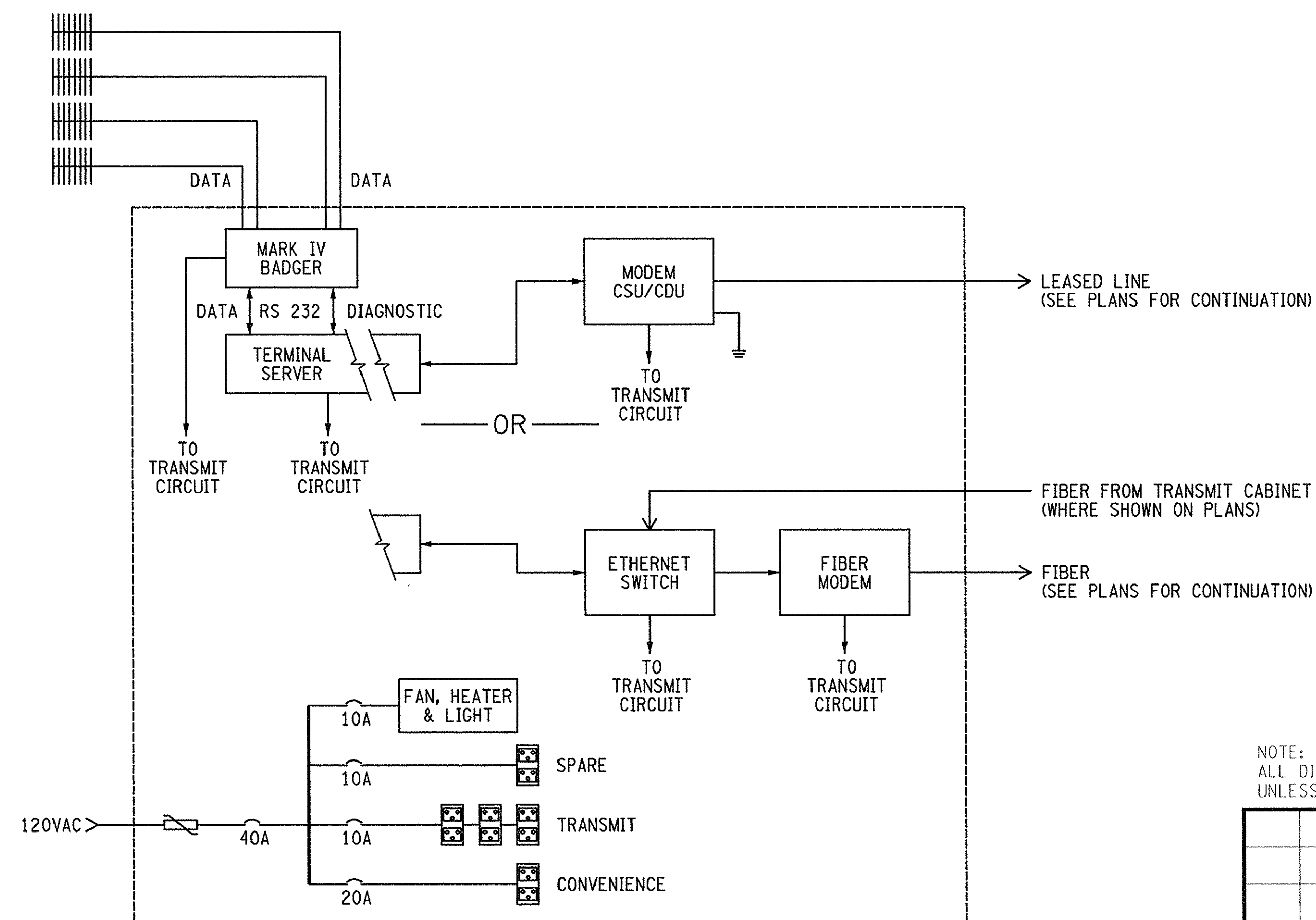


NOTES:

1. SEE ITEM 680.80200X-25 FOR ADDITIONAL ELECTRICAL SUPPLY REQUIREMENTS.
2. SPECIFIC POWER SUPPLY CONFIGURATION DEPENDENT ON CABINET MANUFACTURER.
3. PATCH PANEL SHALL BE PAID FOR UNDER ITEM 680.8020XX--25.



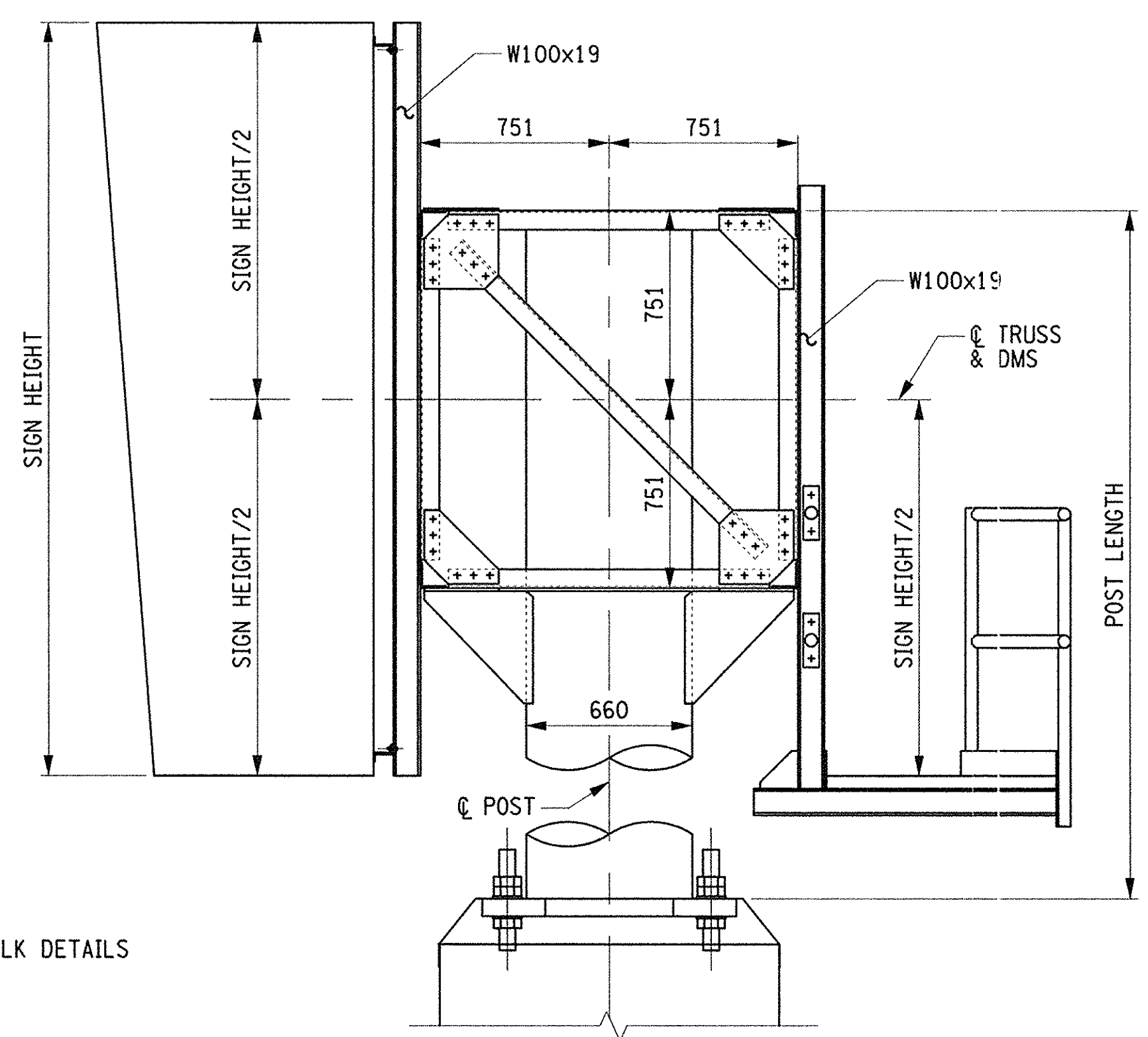
DETAIL A
TYPE A CABINET
ANALOG VIDEO



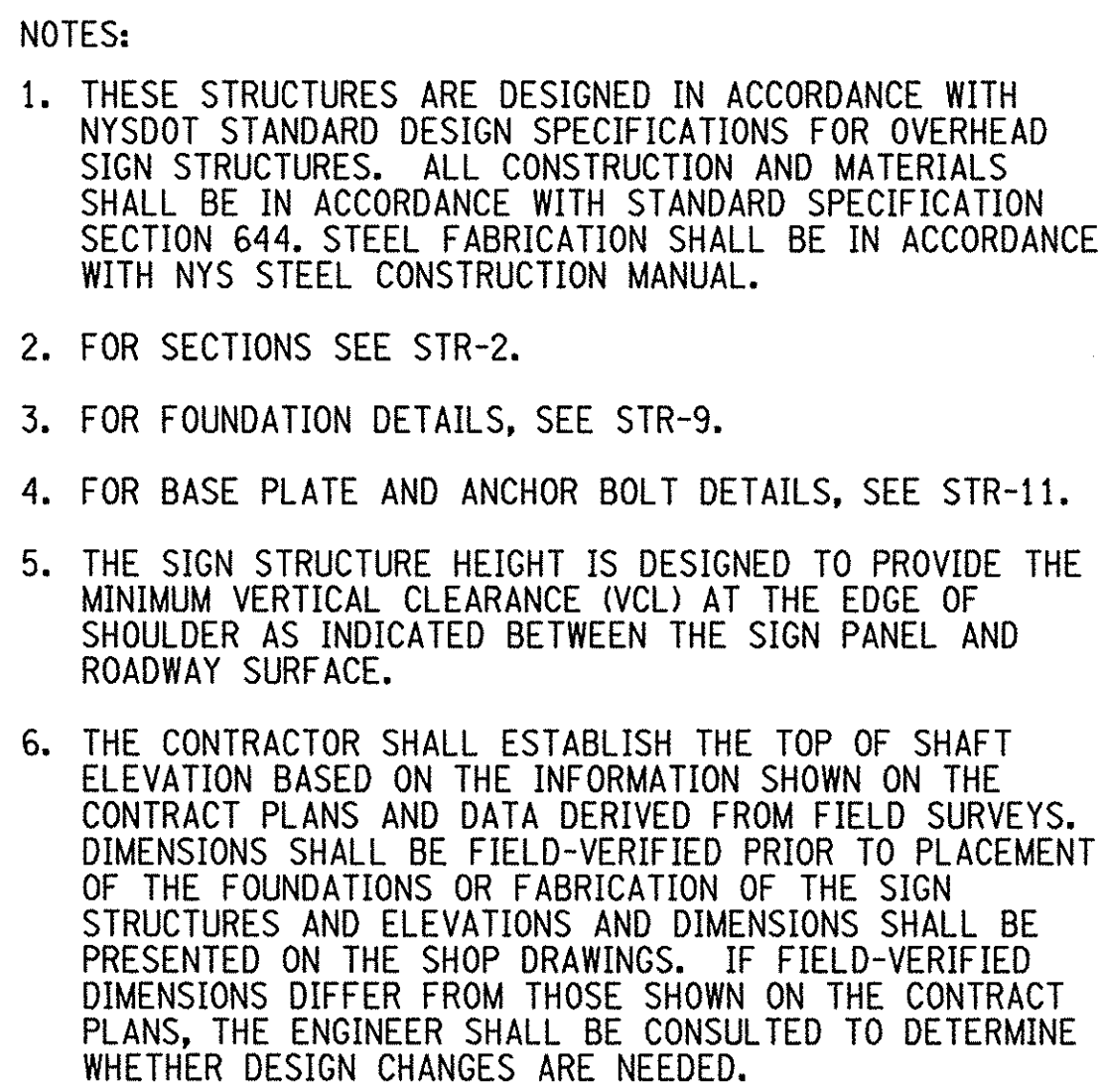
DETAIL B
TRANSMIT CABINET

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

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SECTION A-A
1:20



NOTE:
ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION	BY	SY

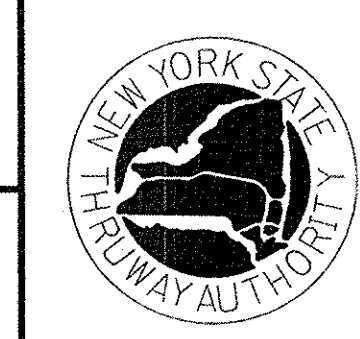
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NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING SERVICES
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

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

TITLE OF DRAWING
T-STRUCTURE
PLAN AND ELEVATION



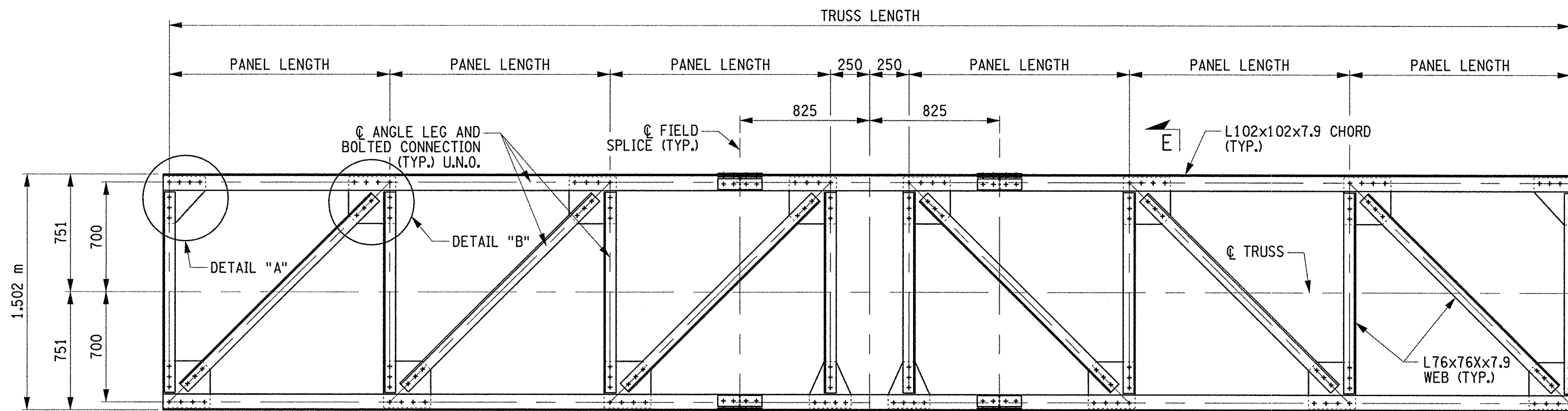
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DATE:	JULY 30, 200
DRAWING NUMBER:	STR-1

T-STRUCTURE TABLE								
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

Discipline: NYSDOT
Project: NY Highway Design
Model: BALASCO-SP1
Plotted By: pascosco
Design File: 192500138
Plot Date: 9/29/2008 2:59:24 PM

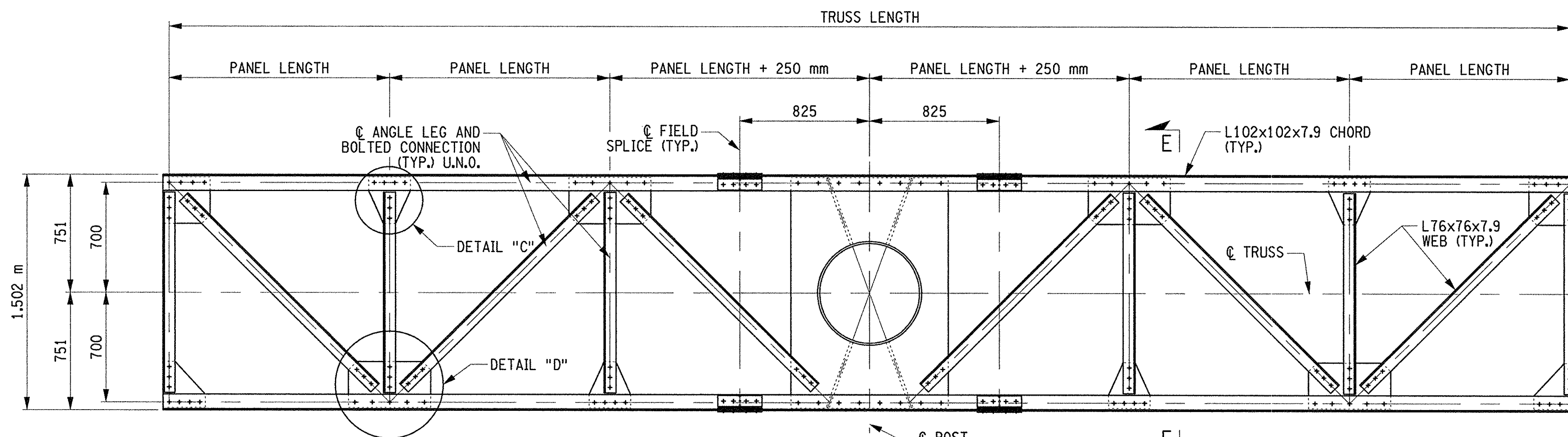
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Project: NY Highway Design
Model: BALASCO-SP1
Plotted By: pascosco
Design File: 192500138
Plot Date: 9/29/2008 2:59:24 PM

File
Checked By:
Designed By:
Drafted By:
In Charge Of:



NOTE: CATWALK IS NOT SHOWN FOR CLARITY

SECTION B-B
1:20

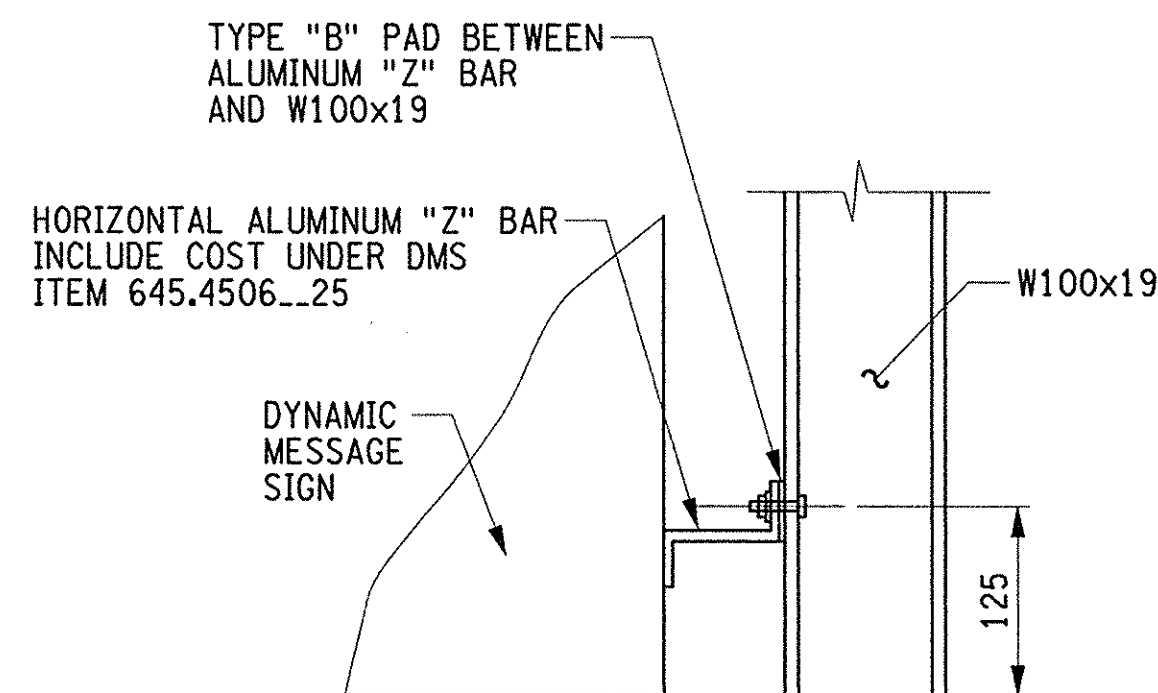


NOTE: DMS SIGN AND CATWALK ARE NOT SHOWN FOR CLARITY

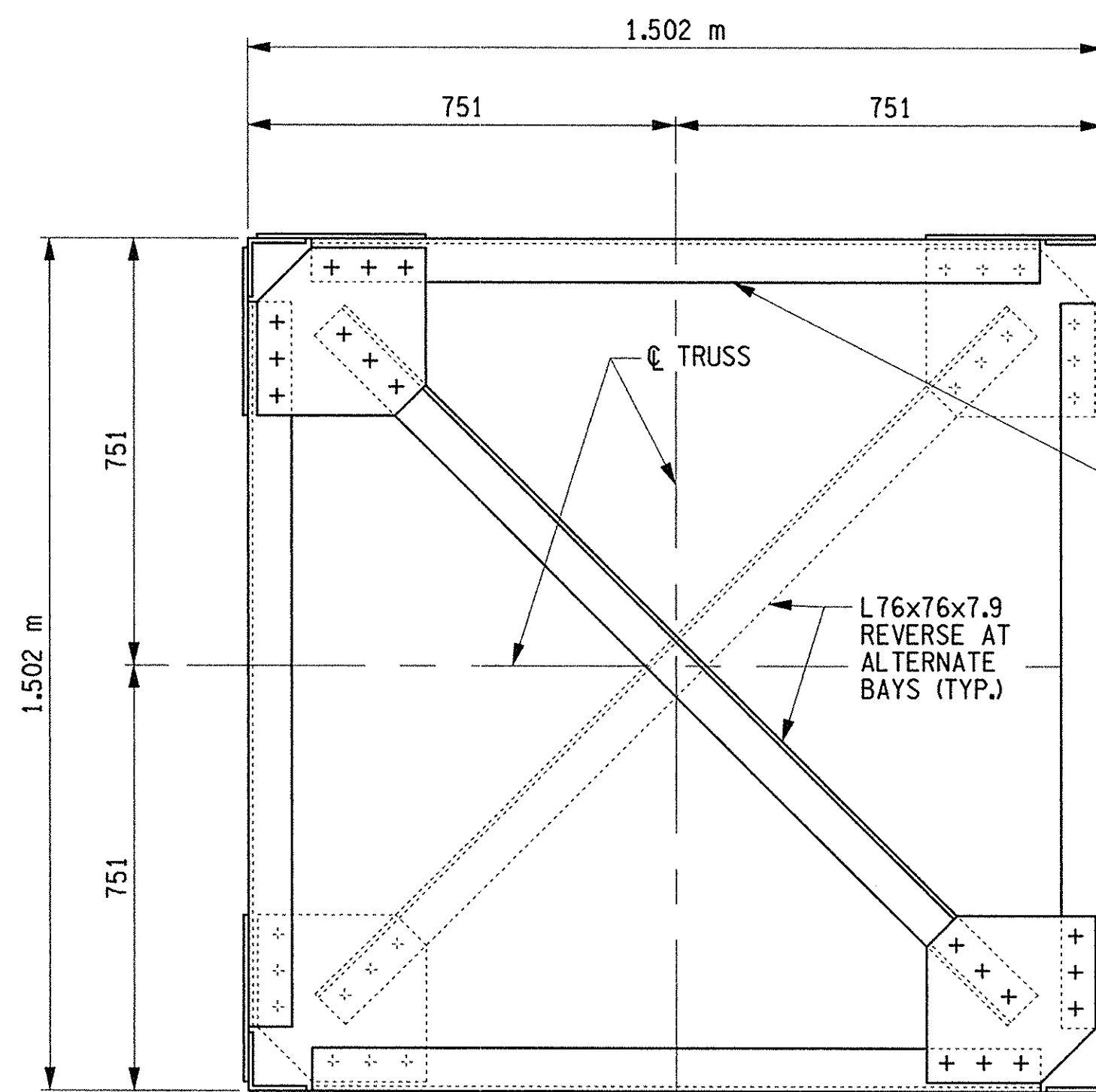
SECTION C-C
1:20

NOTES:

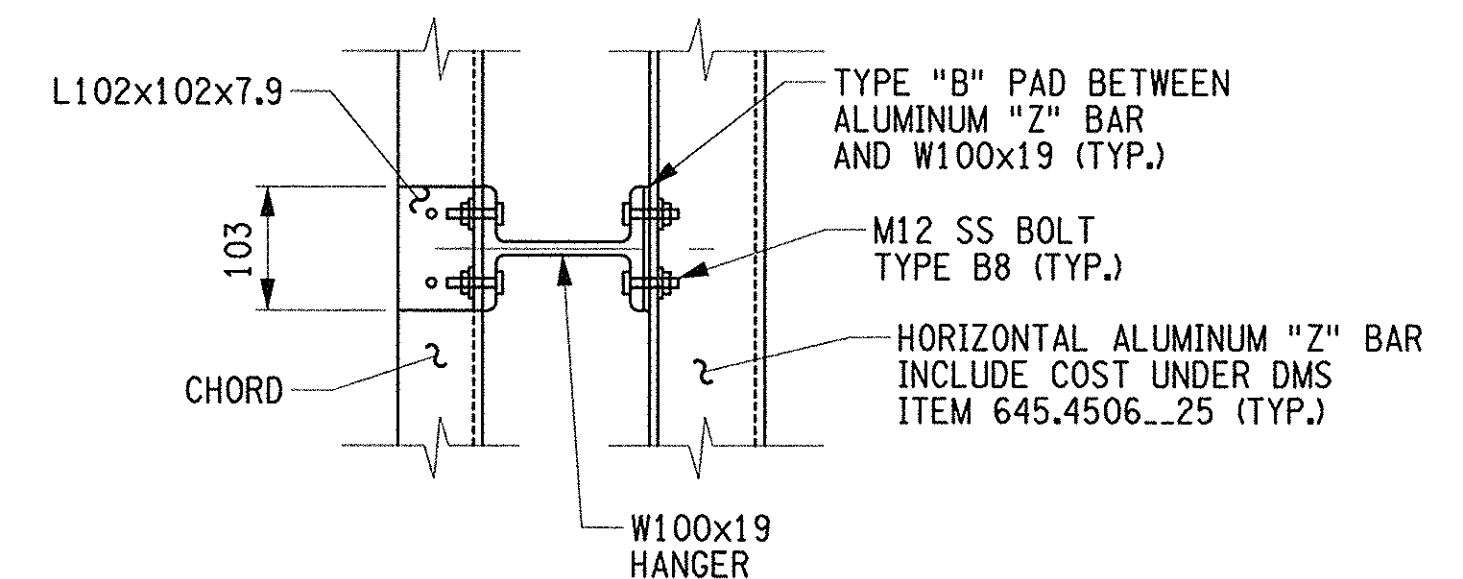
1. THE CONTRACTOR SHALL COMPENSATE FOR 10 mm OF DEAD LOAD DEFLECTION AT THE ENDS OF THE TRUSS BY OFFSETTING THE BOLTS HOLES BETWEEN THE UPPER AND LOWER CHORDS AT THE SPLICE. THE TOP CHORD SHALL BE SHORTENED BETWEEN THE PIPE AND THE SPLICE.
2. ALL BOLTS SHALL BE MECHANICALLY GALVANIZED, HIGH STRENGTH M20, IN STANDARD HOLES, AND FULLY TIGHTENED, UNLESS OTHERWISE NOTED.
3. ALL GUSSET PLATES SHALL BE 8 mm THICK.
4. BOLT HEADS SHALL BE ORIENTED TO THE OUTSIDE OF THE TRUSS.
5. ALL WELDING SHALL BE SHOP WELDED. ULTRASONIC TESTING SHALL BE PERFORMED ON ALL COMPLETE PENETRATION GROOVE WELDS. ULTRASONIC TESTING SHALL BE PERFORMED BY PERSONNEL QUALIFIED BY WRITTEN EXAM AND PERFORMANCE TESTING ADMINISTERED BY THE D.C.E.S.



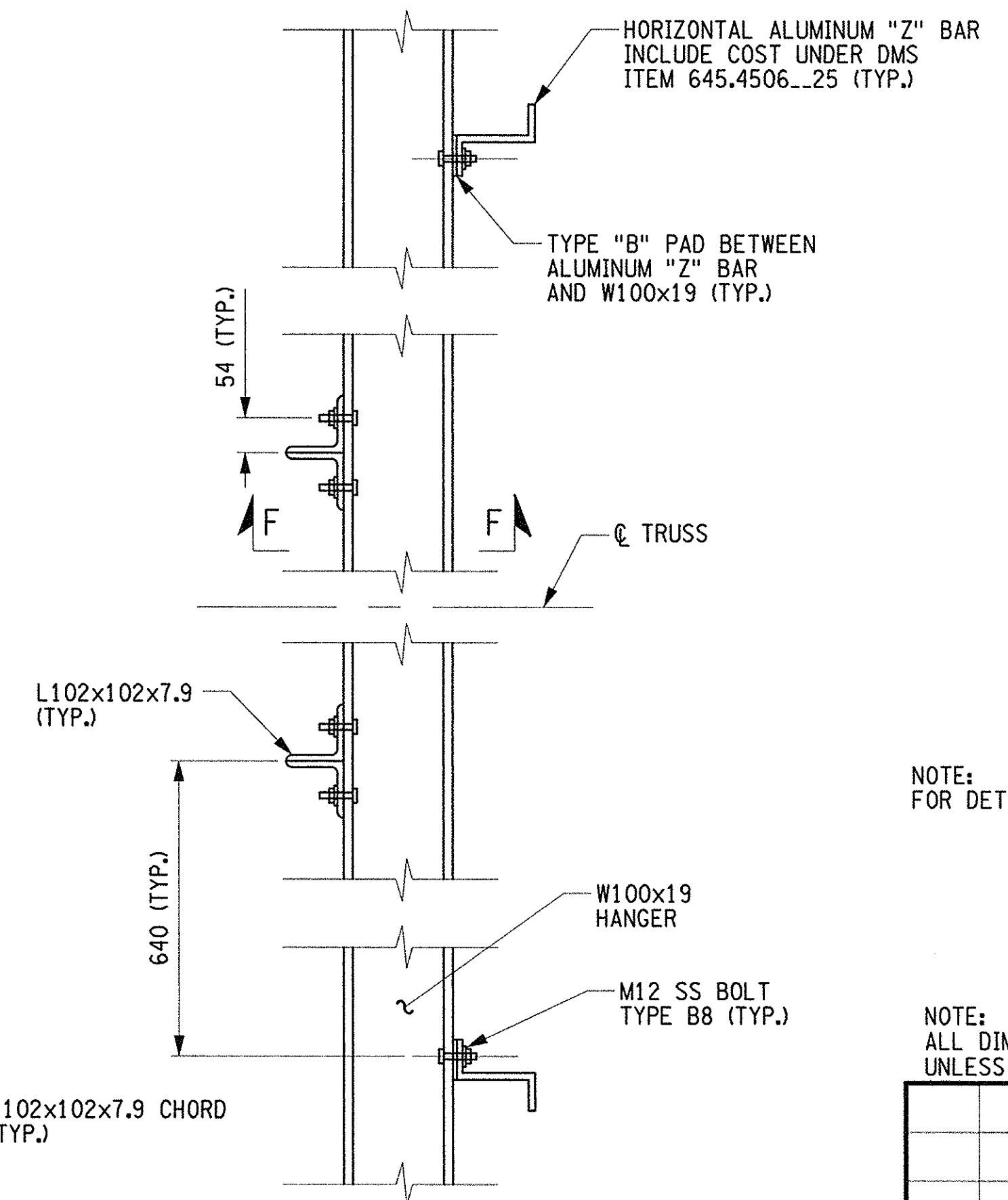
SECTION D-D
1:5



SECTION E-E
1:5

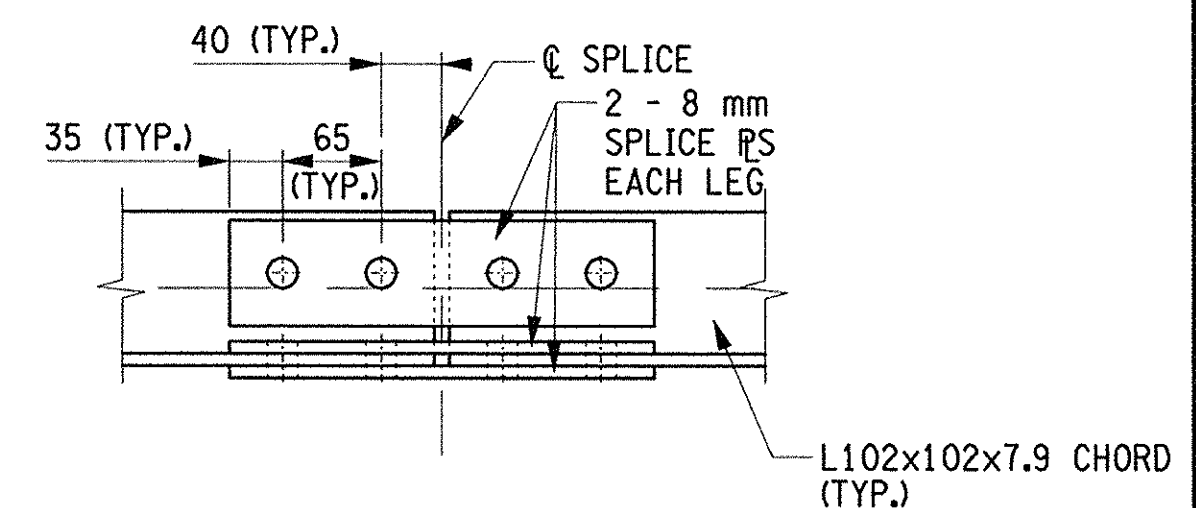


SECTION F-F
NOT TO SCALE



NOTE:
FOR DETAILS SEE STR-3.

W100x19 CONNECTIONS
NOT TO SCALE



FIELD SPLICE DETAIL
1:5

NOTE: *No As Built Revisions*
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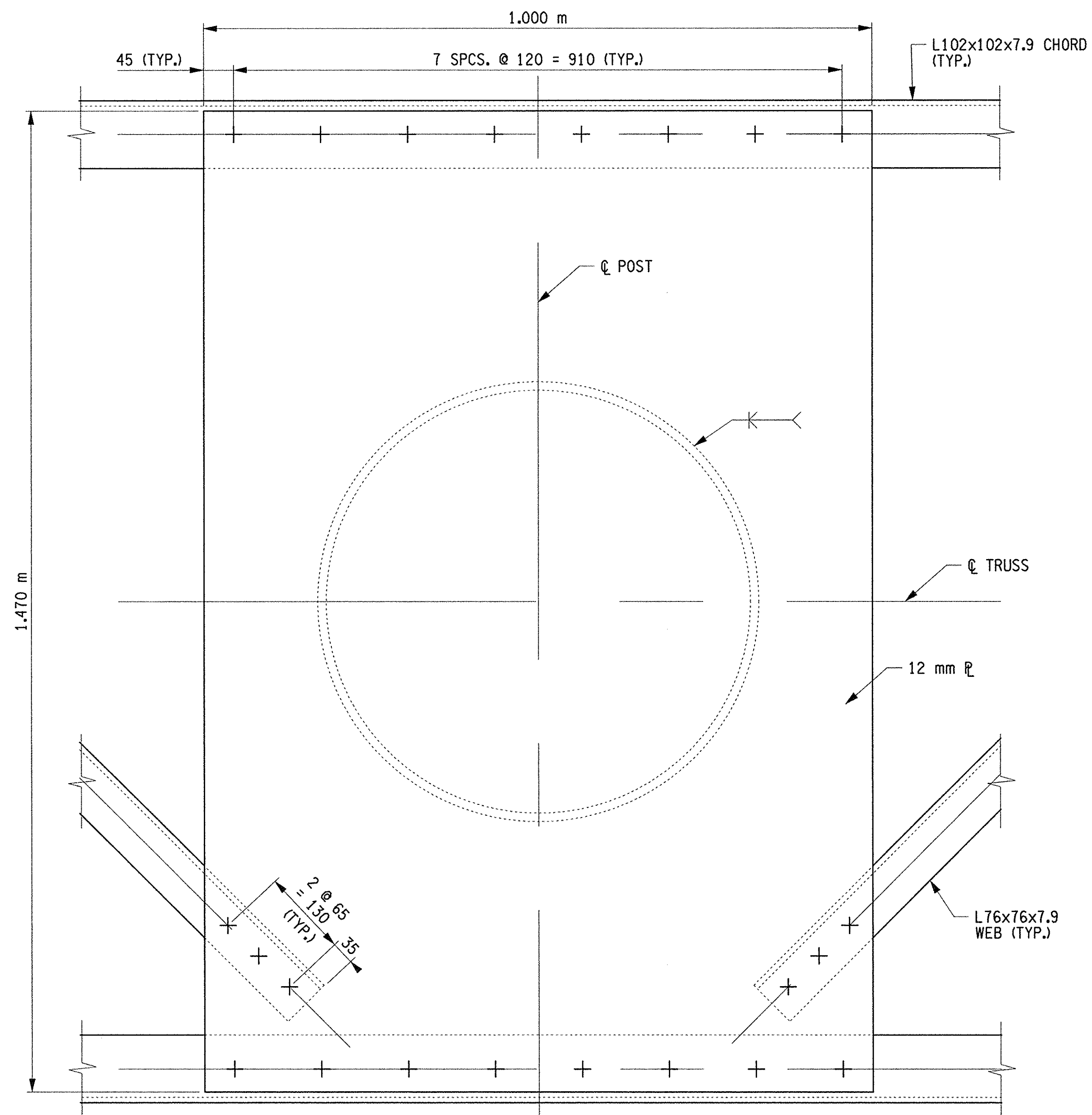
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TITLE OF PROJECT DEPLOYMENT OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING T-STRUCTURE SECTIONS AND DETAILS			
CONTRACT NUMBER: TAS 08-321			
DATE: JULY 30, 2008			
DRAWING NUMBER: STR-2			



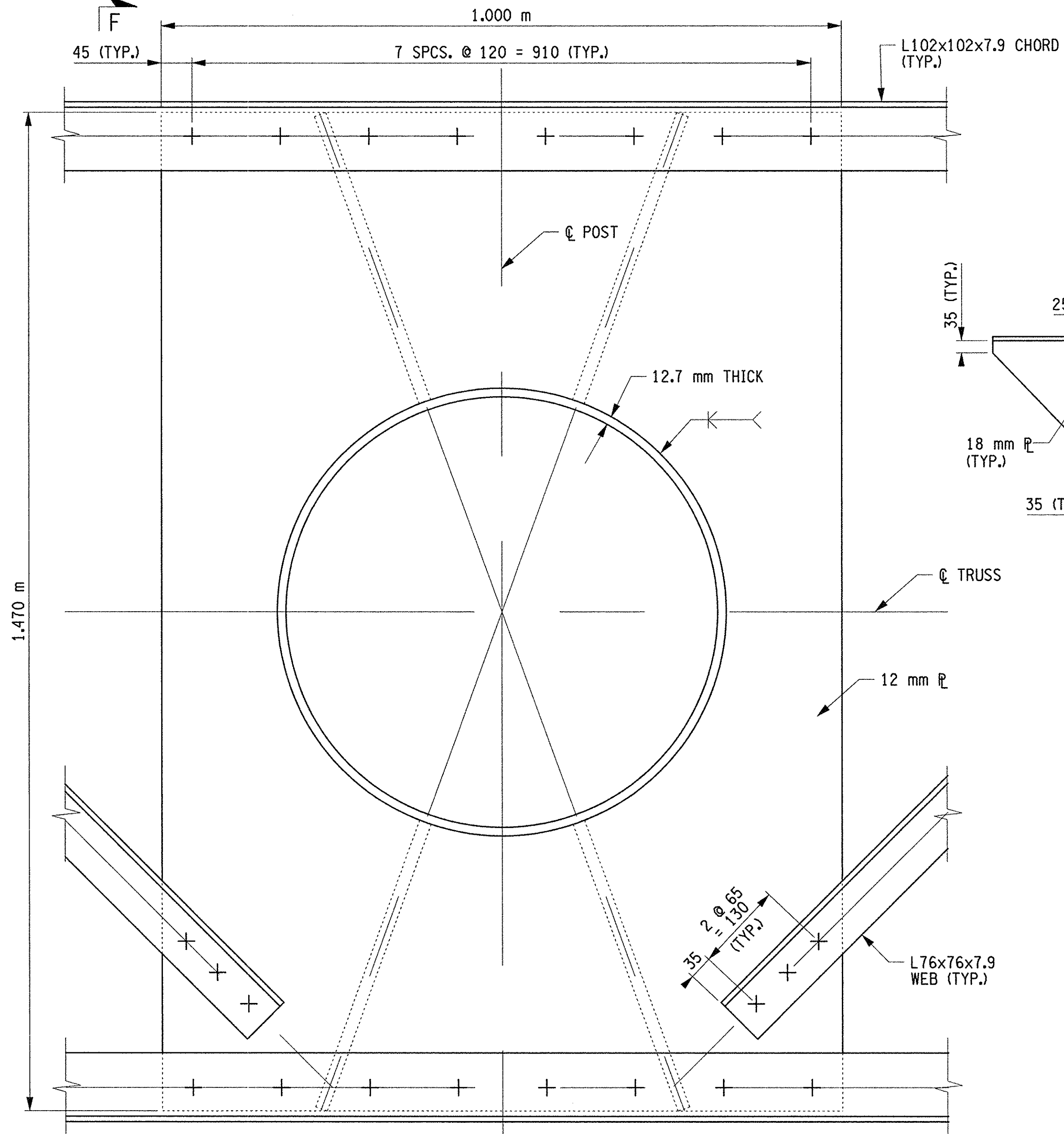
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Discipline: NYSDOT
Project: NY Highway Design
Model: BALASCO-SPI

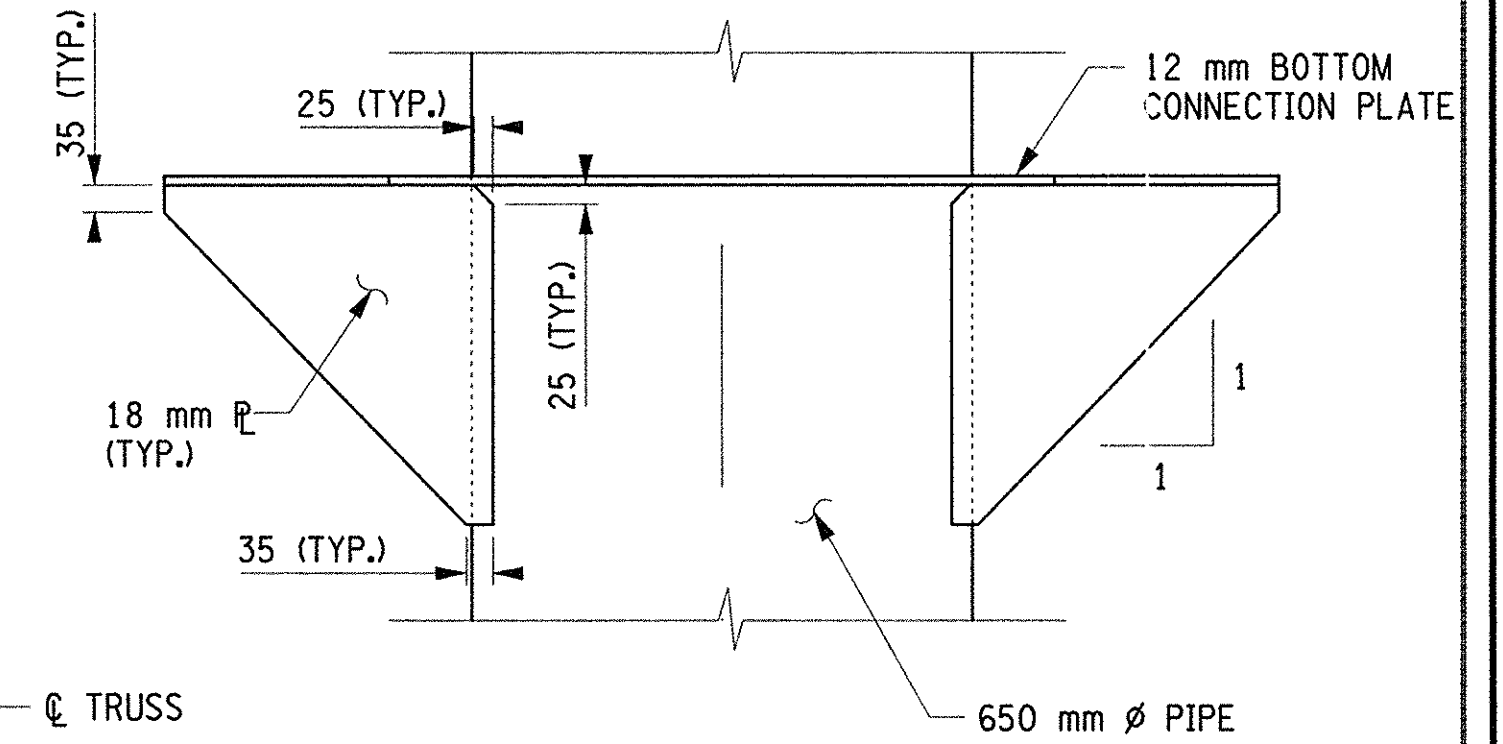
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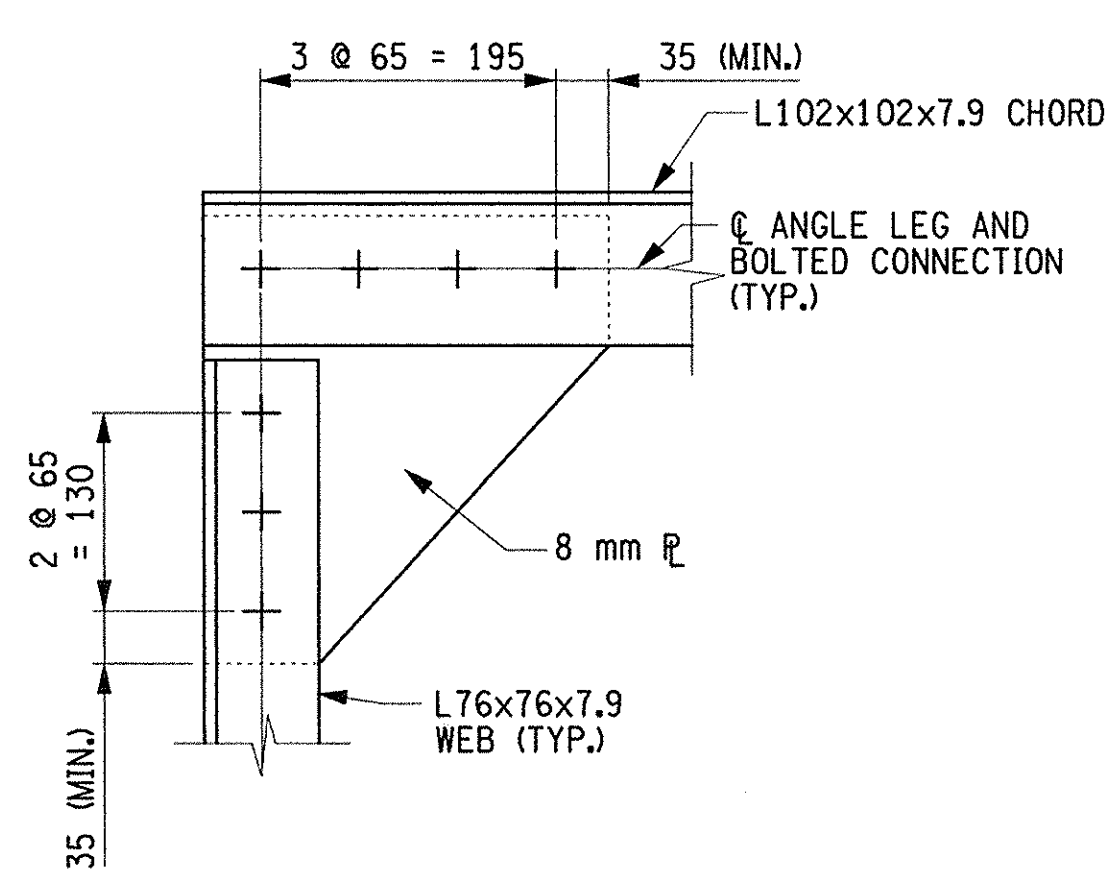
TOP PLATE
COLUMN CONNECTION
1:5



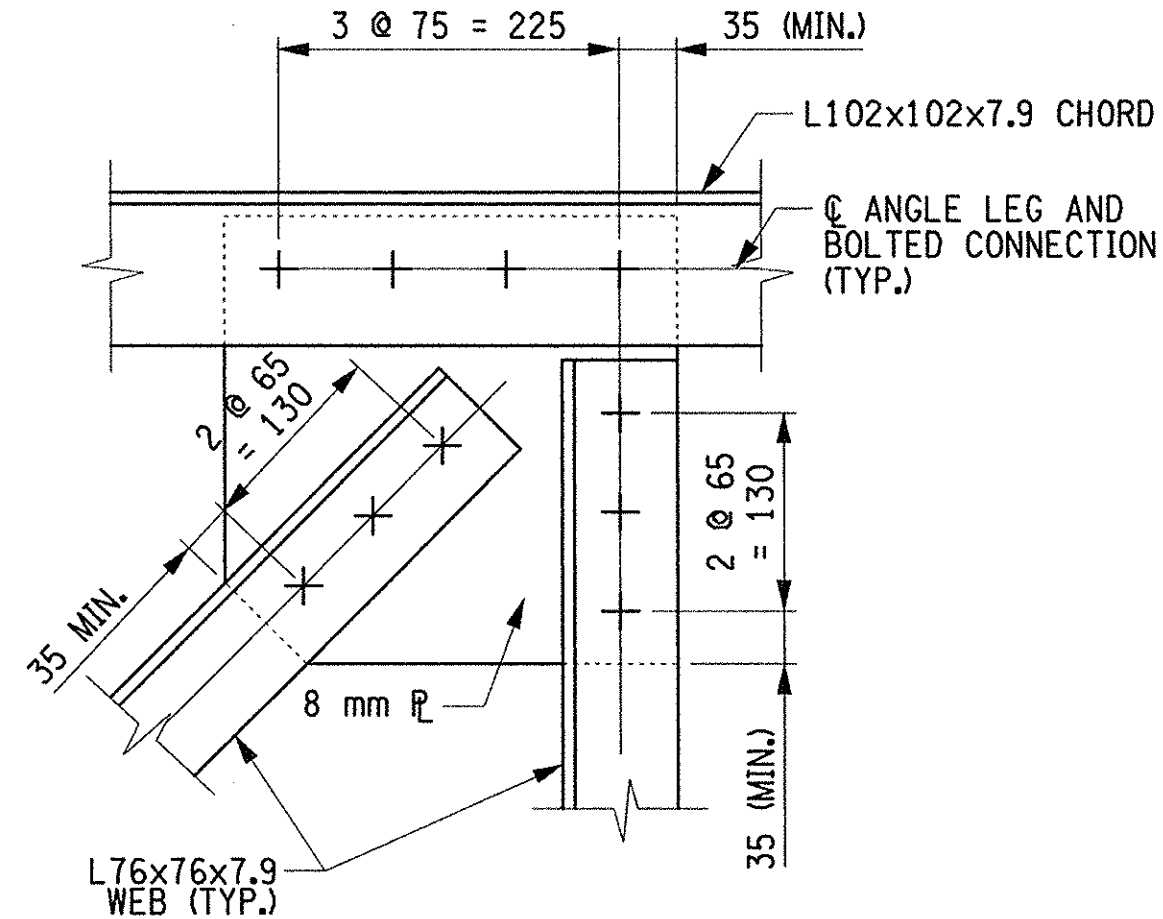
BOTTOM PLATE
COLUMN CONNECTION
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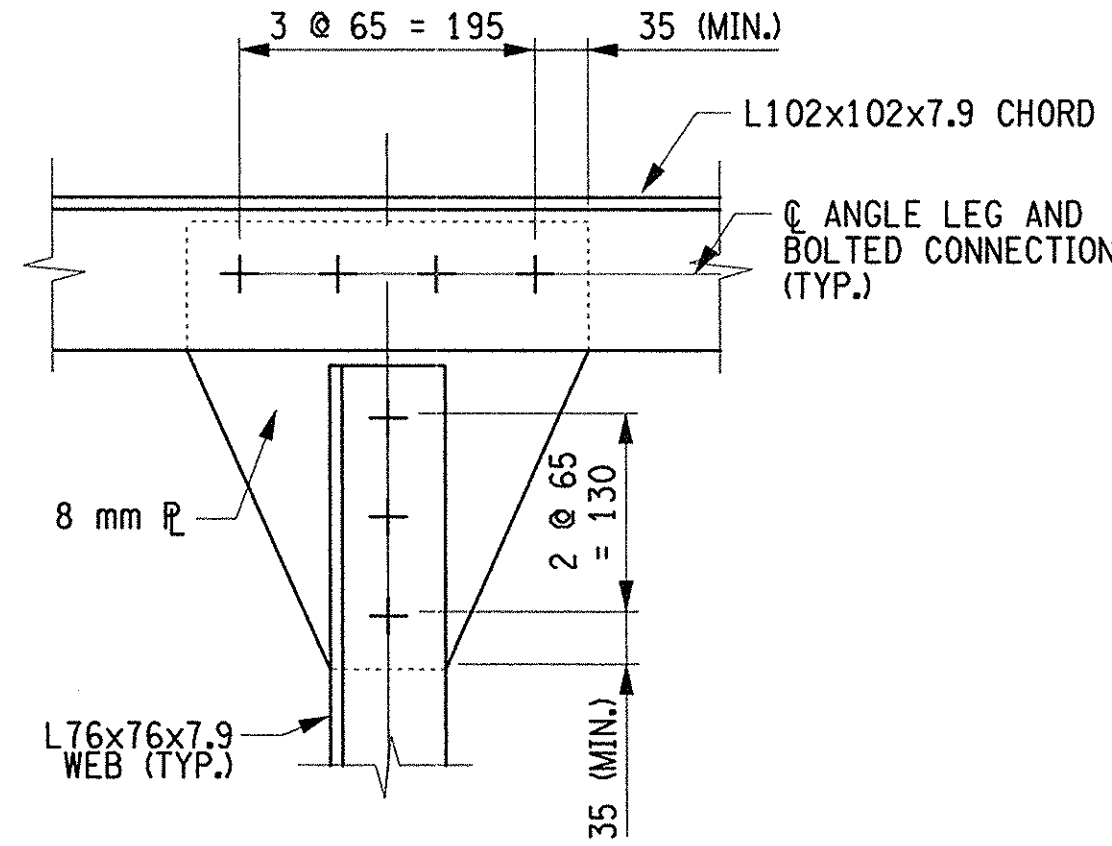
STIFFENER PLATE DETAIL
SECTION F-F
1:10



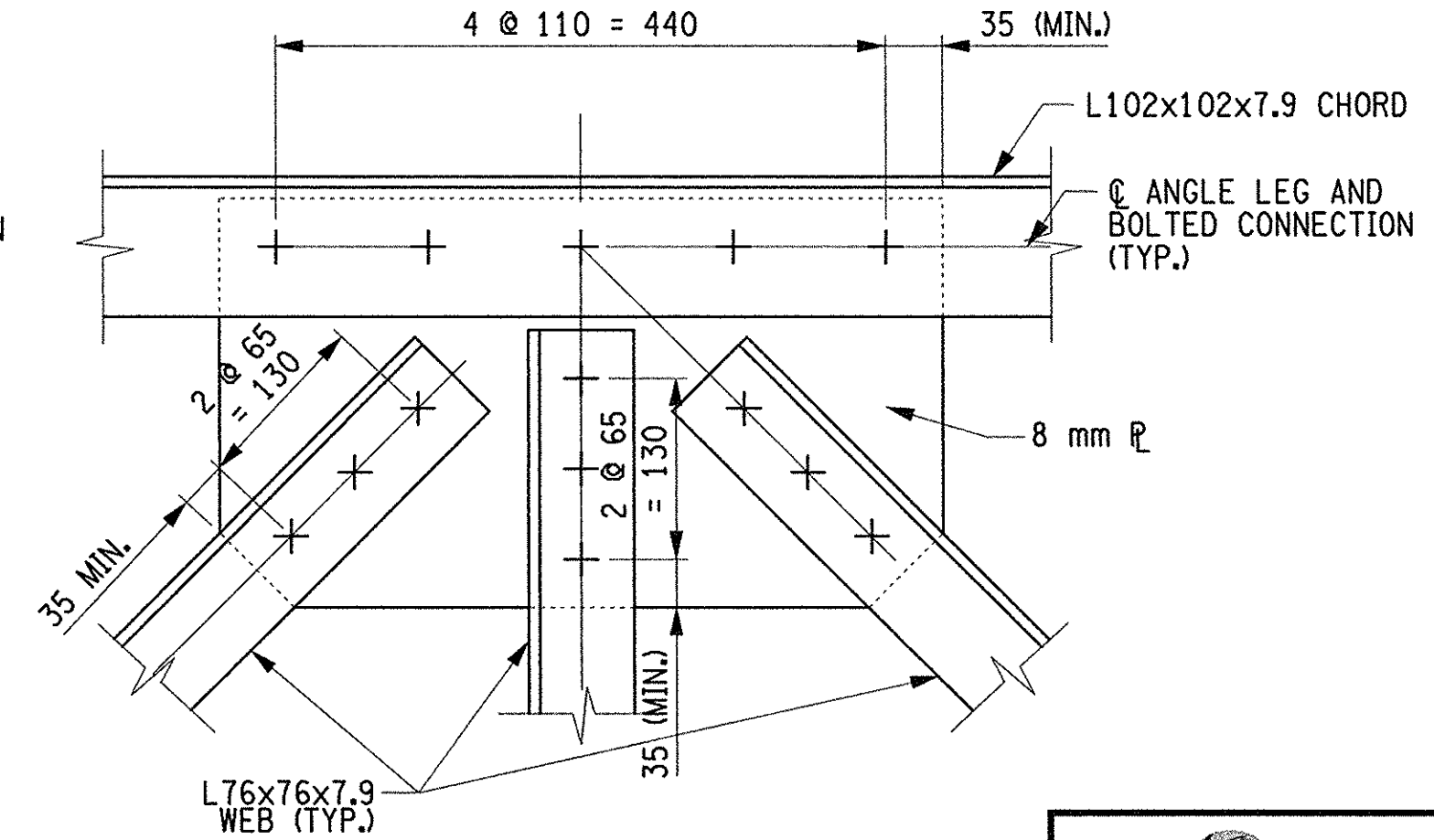
DETAIL A
1:5



DETAIL B
1:5



DETAIL C
1:5



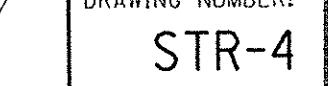
DETAIL D
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N/A As Built Revisions

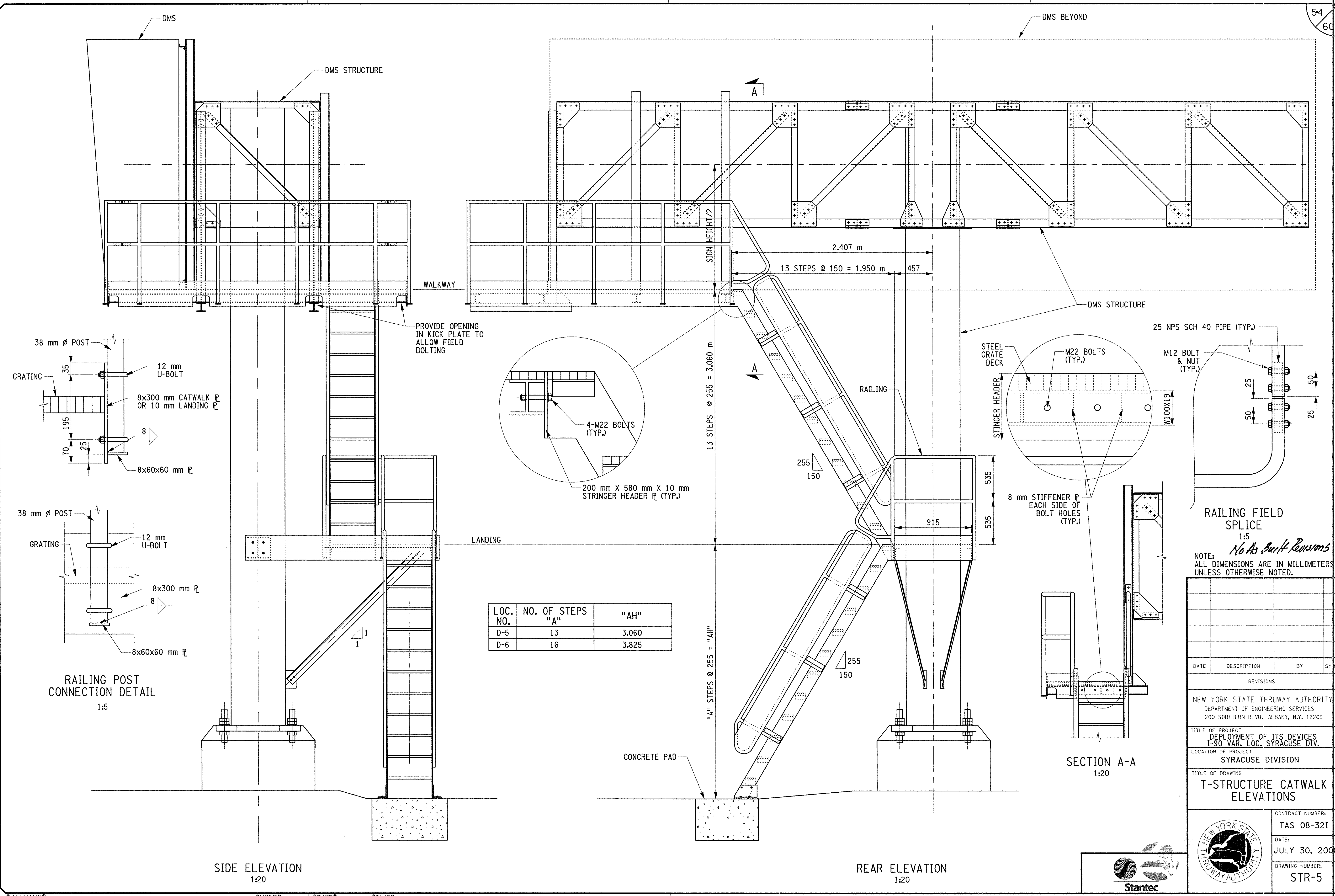
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LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING T-STRUCTURE SECTIONS AND DETAILS			
		CONTRACT NUMBER: TAS 08-321	
		DATE: JULY 30, 2008	
		DRAWING NUMBER: STR-3	




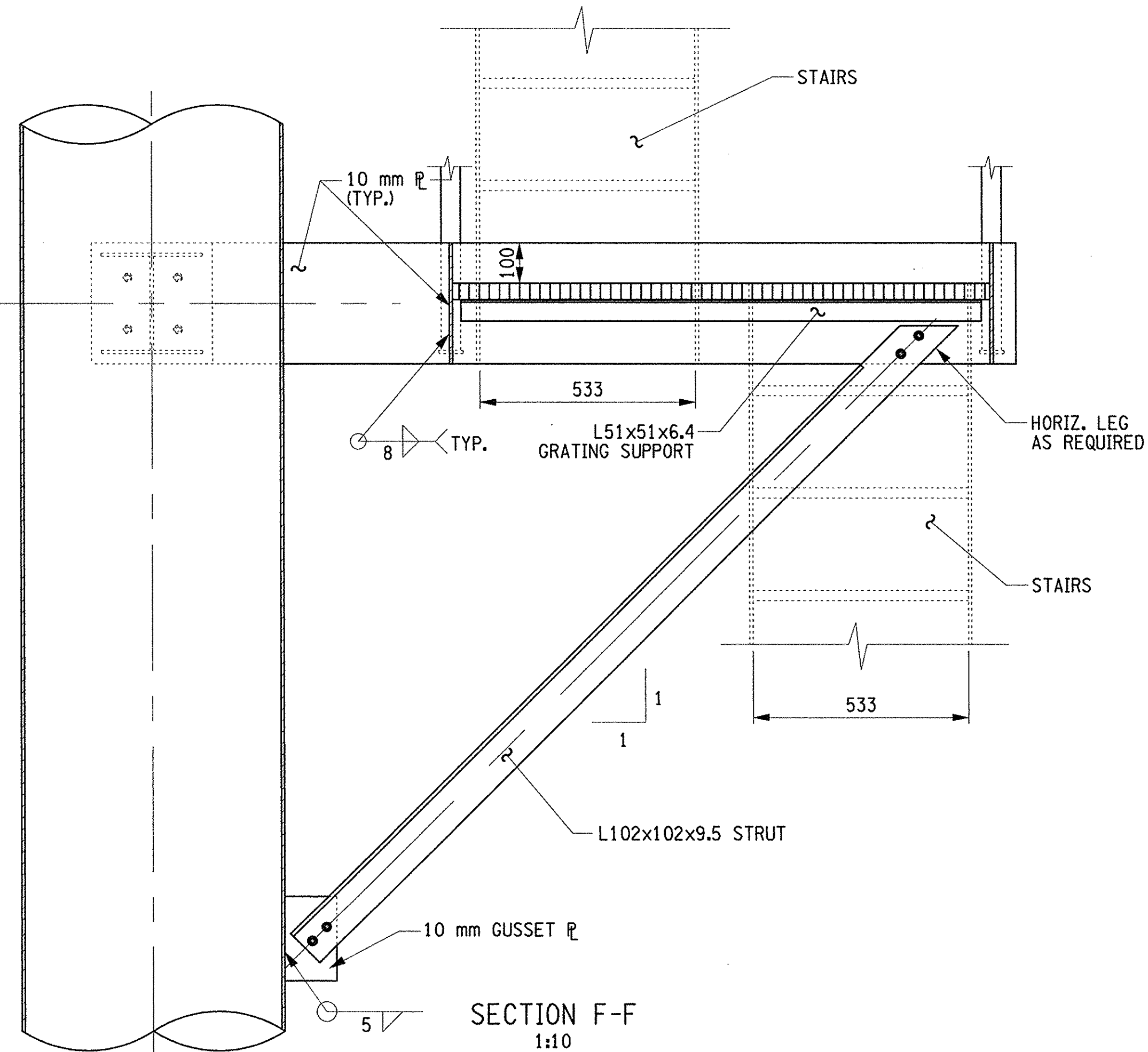
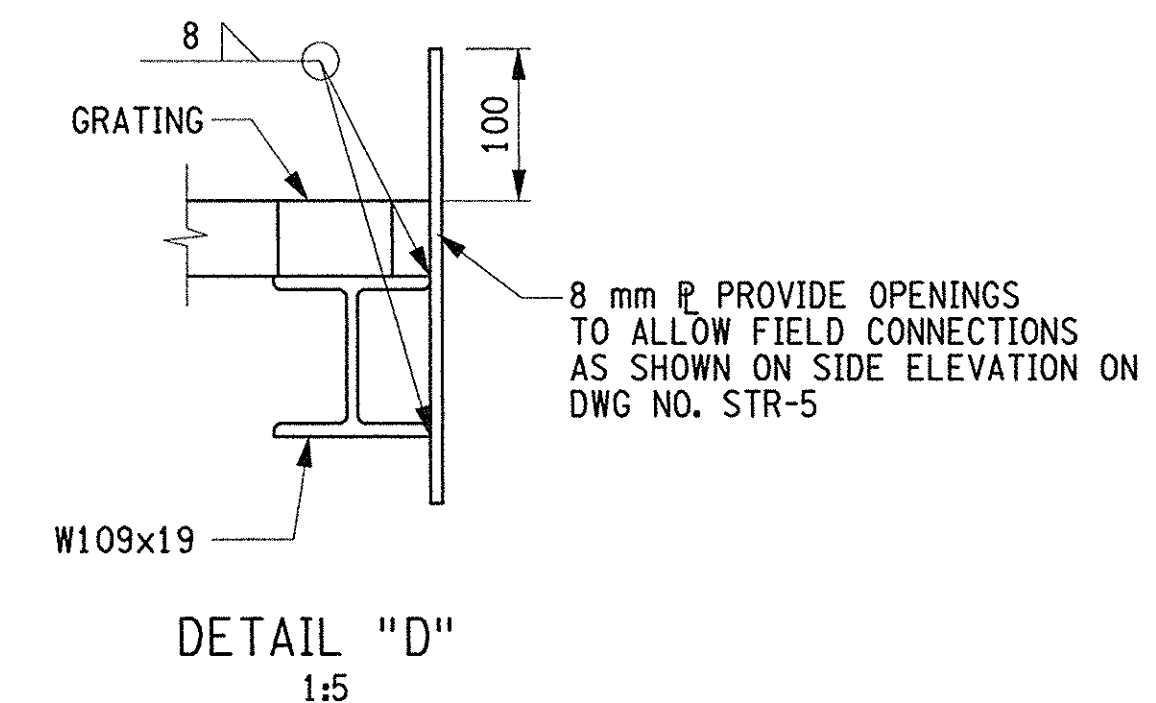
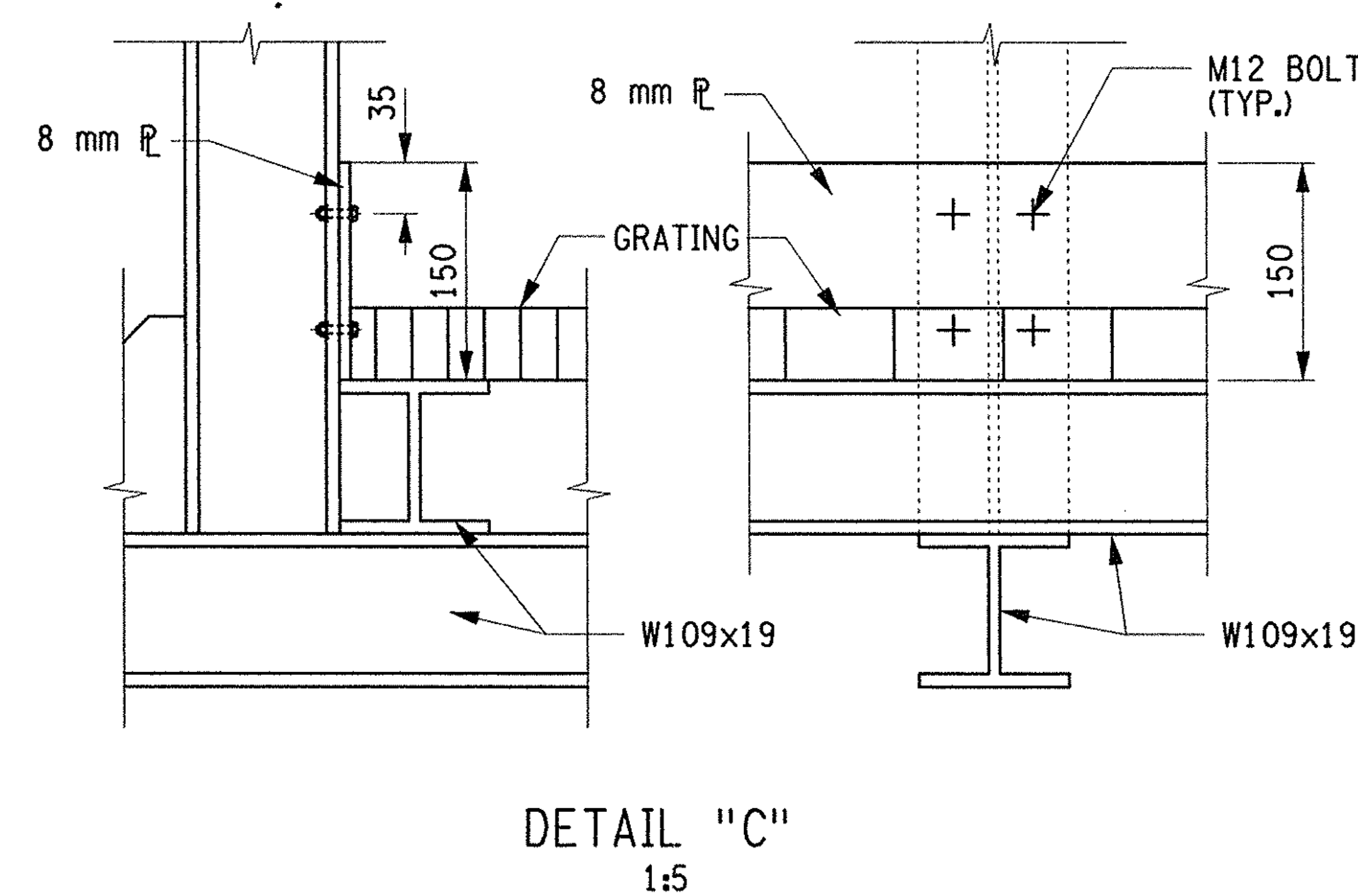
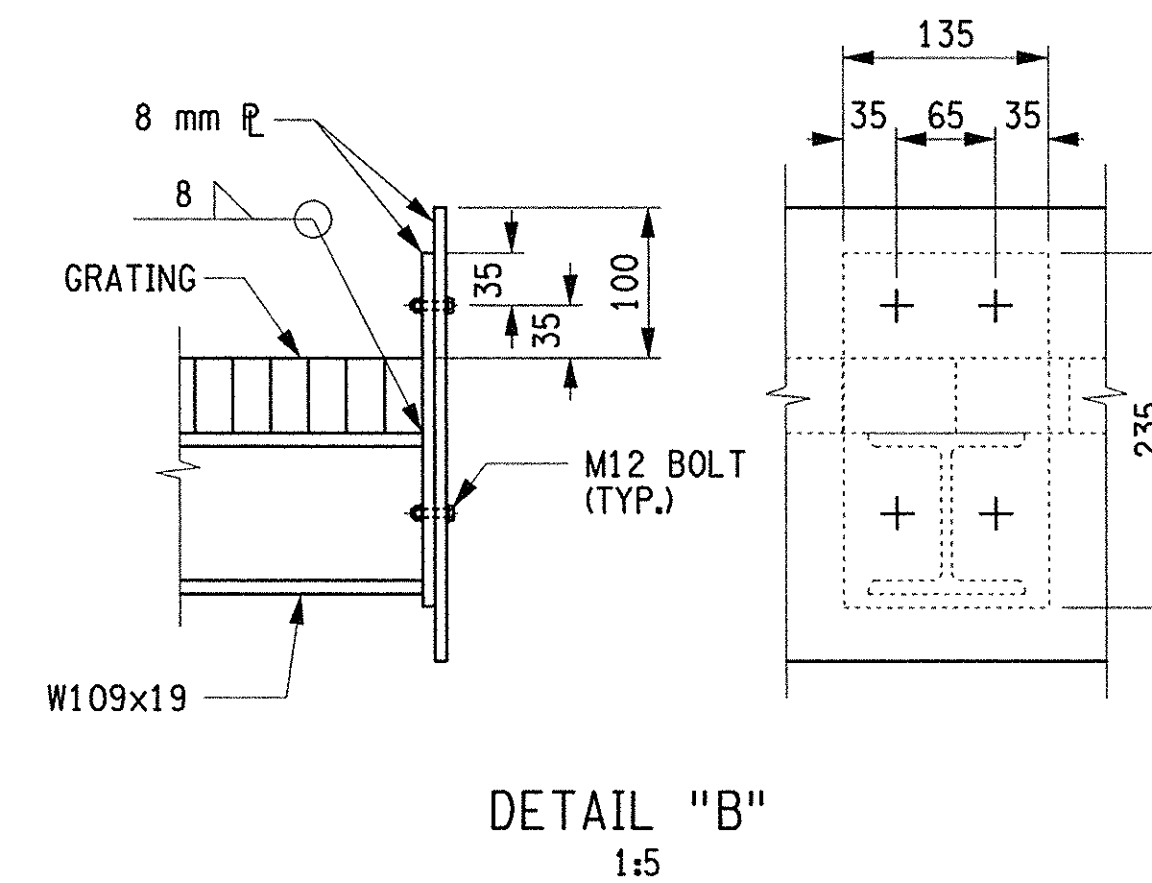
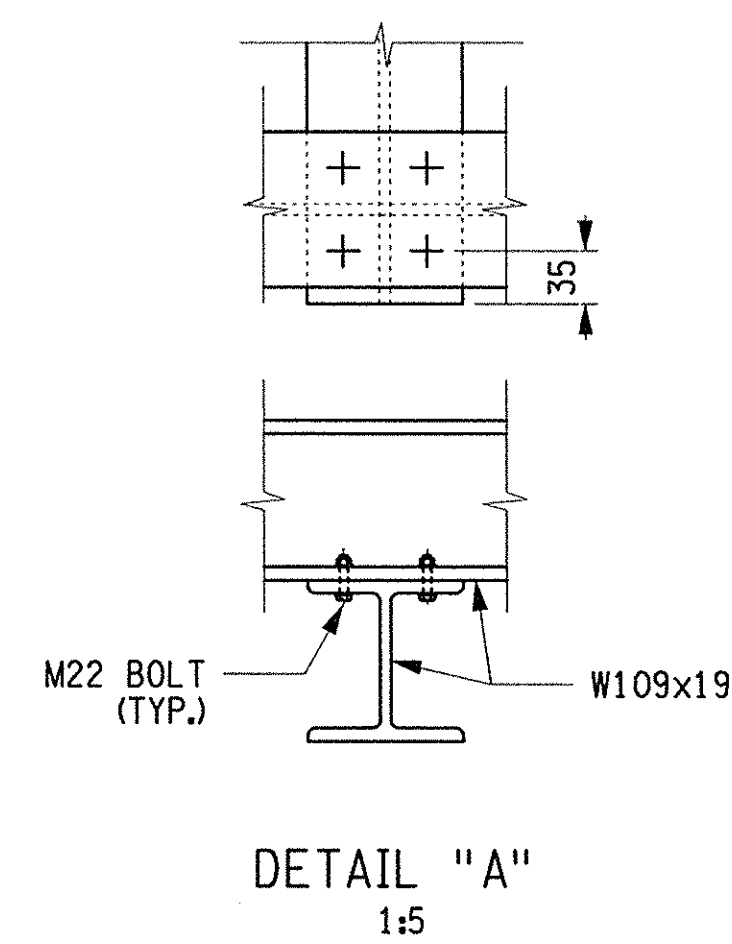
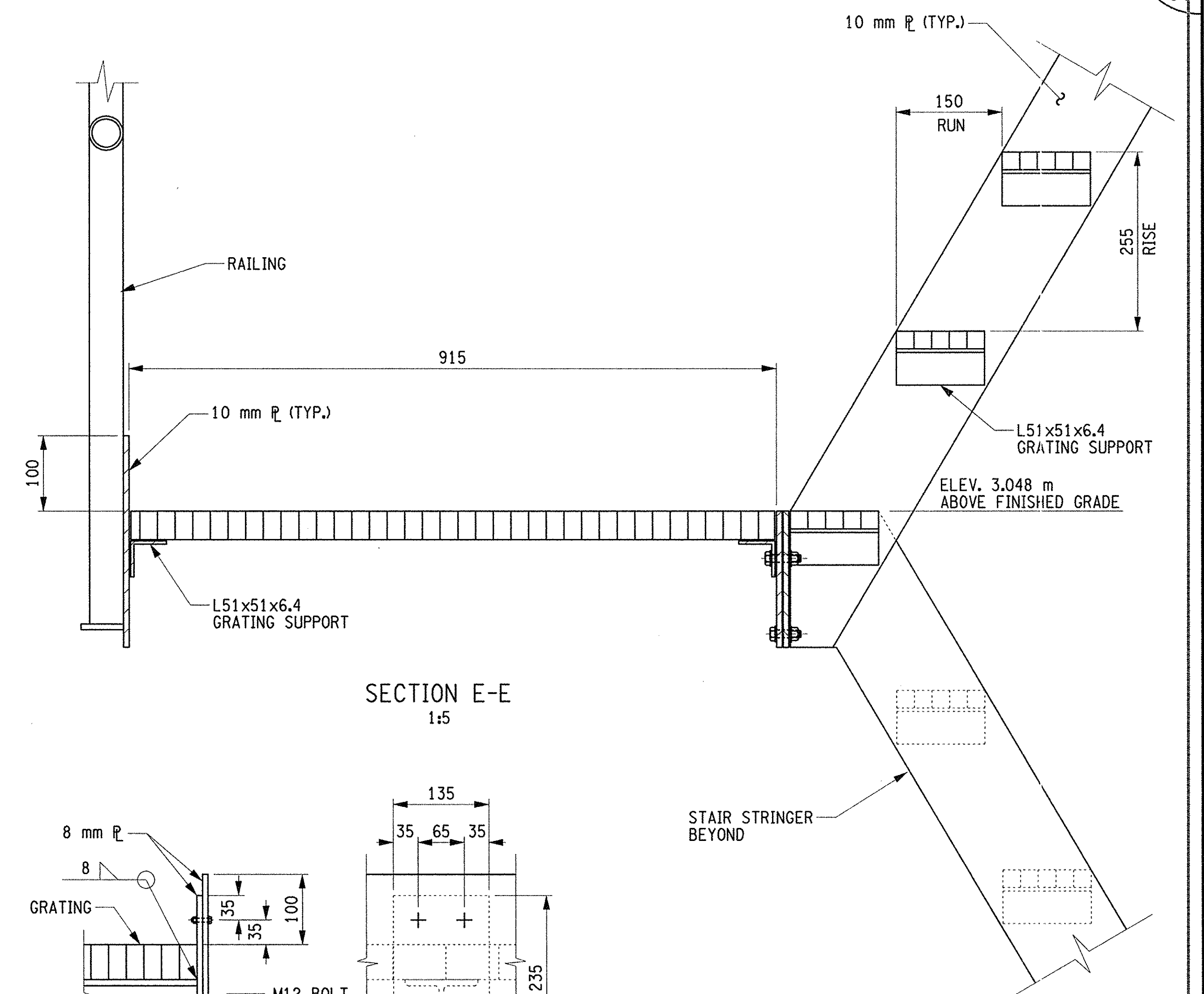
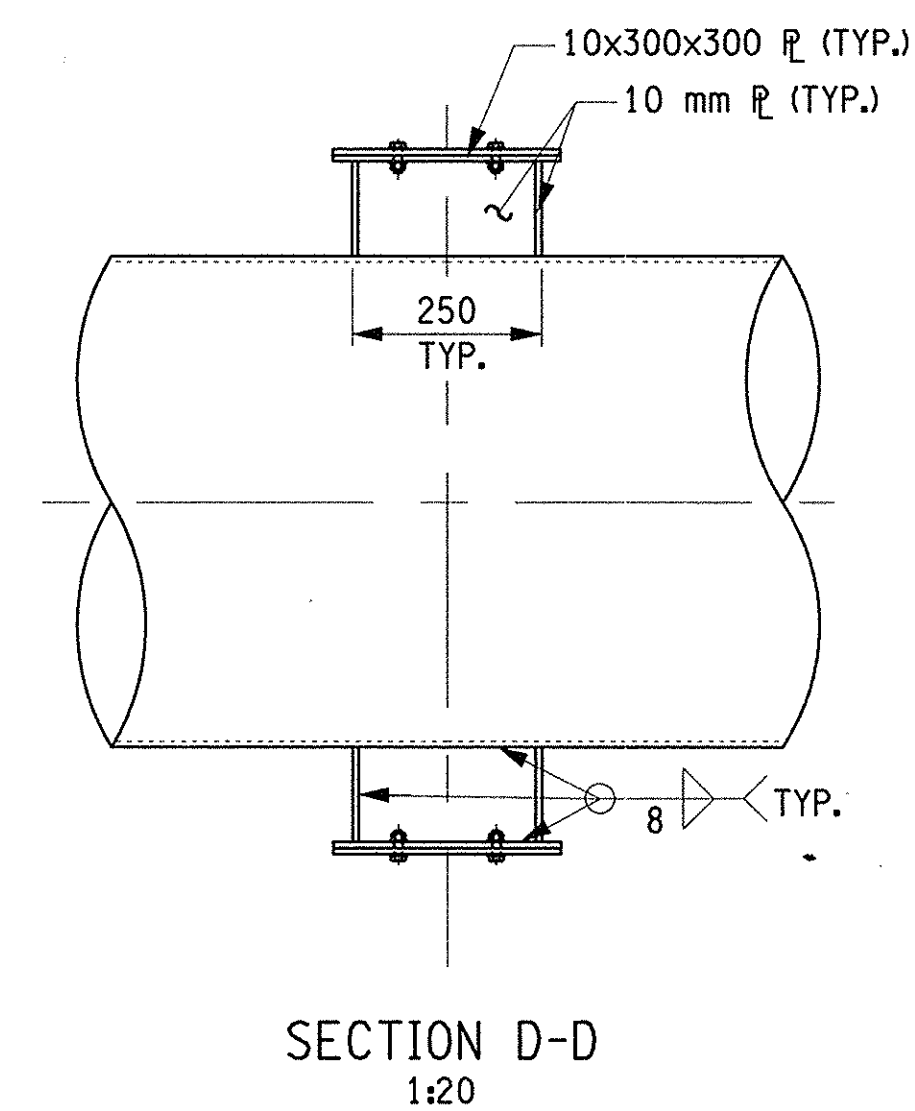
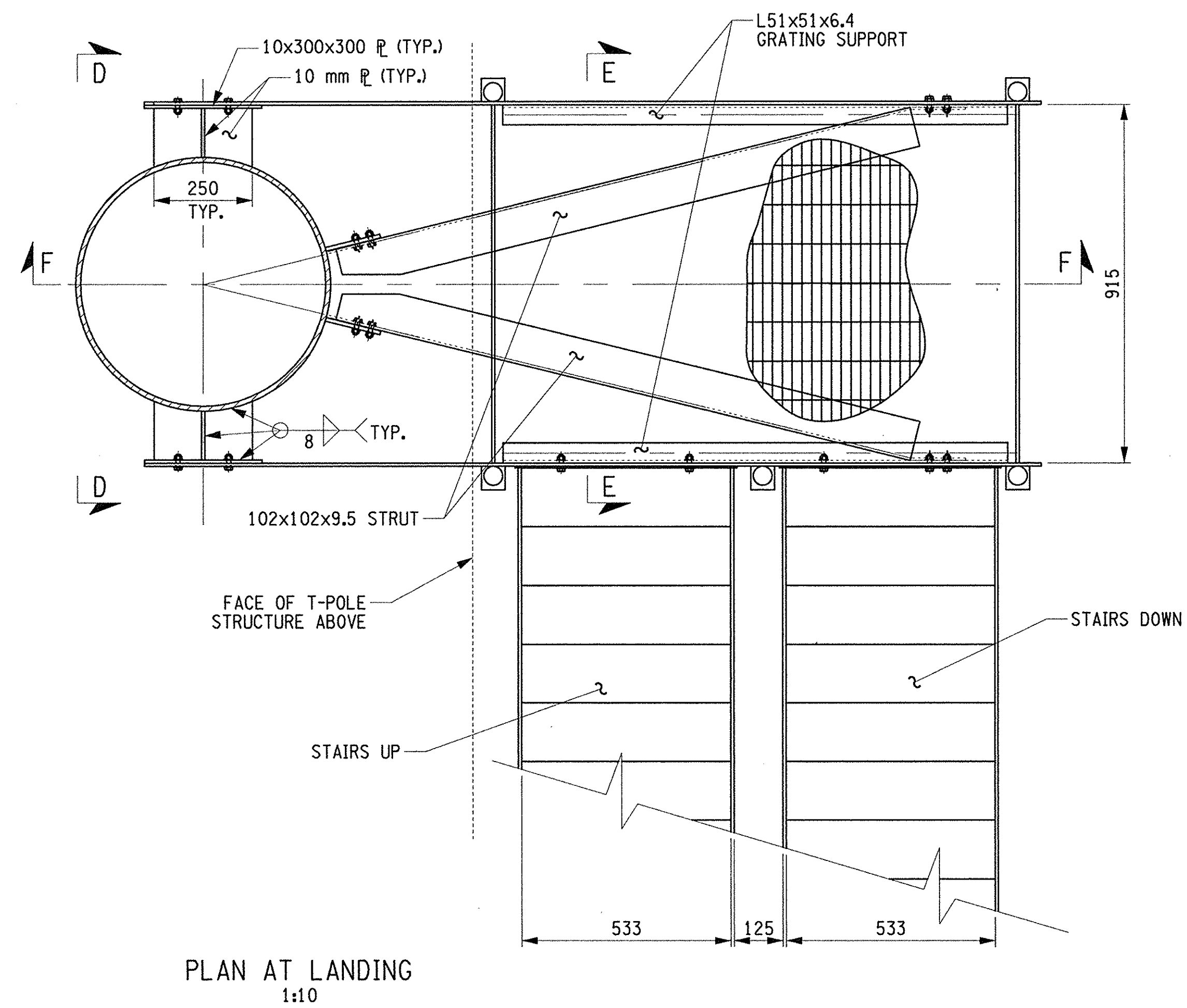


IN CHARGE OF: _____ DESIGNED BY: _____ DRAFTED BY: _____ CHECKED BY: _____ FILED _____



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

ORIGINAL				CHECKED				DATE			
DATE				DESCRIPTION				BY			
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			
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No As Built Revisions

NOTE:
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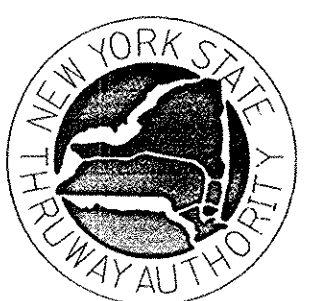
REVISIONS

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.
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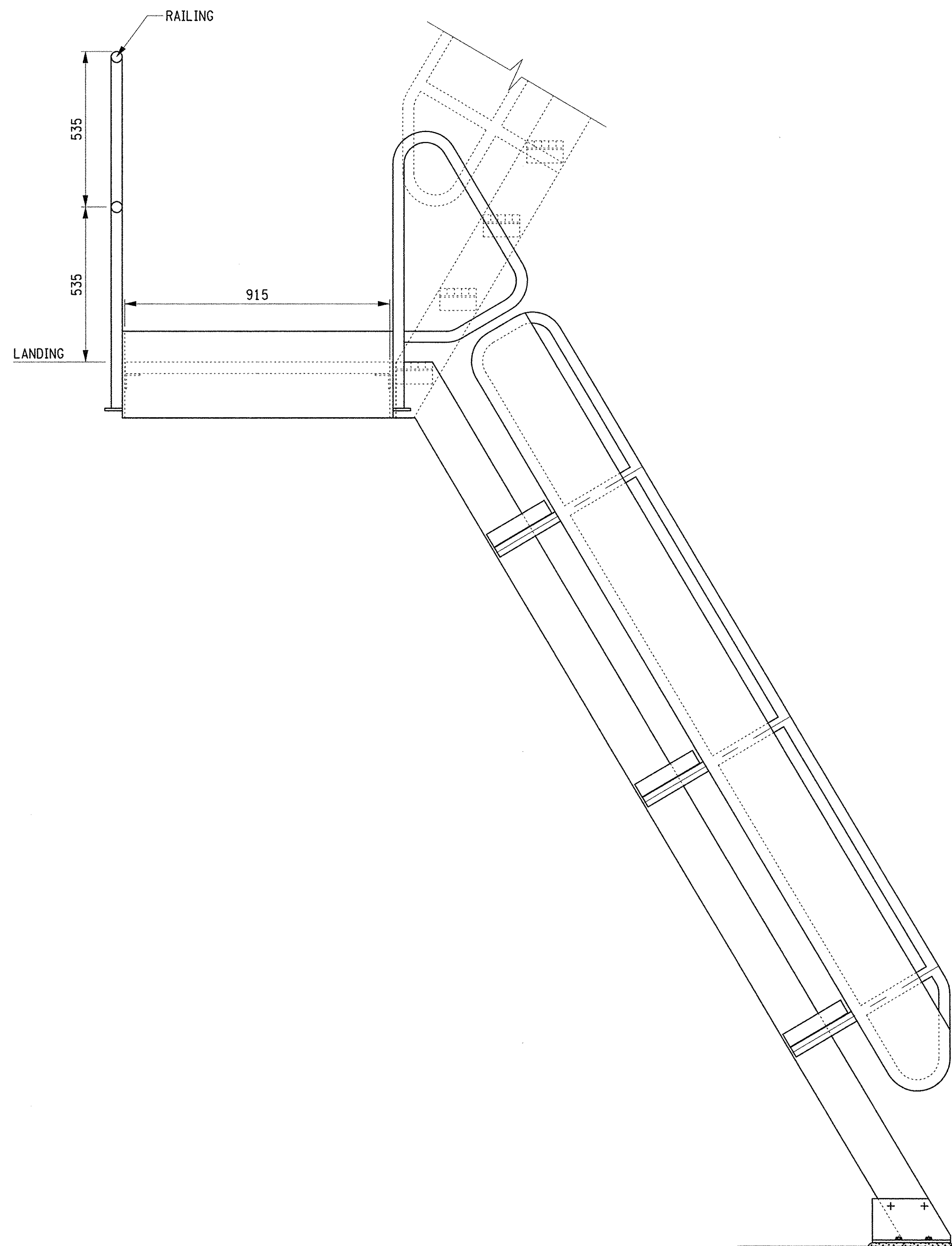
LOCATION OF PROJECT	SYRACUSE DIVISION
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T-STRUCTURE CATWALK
DETAILS



CONTRACT NUMBER:	
TAS 08-321	
DATE:	
JULY 30, 2008	
DRAWING NUMBER:	
STR-6	

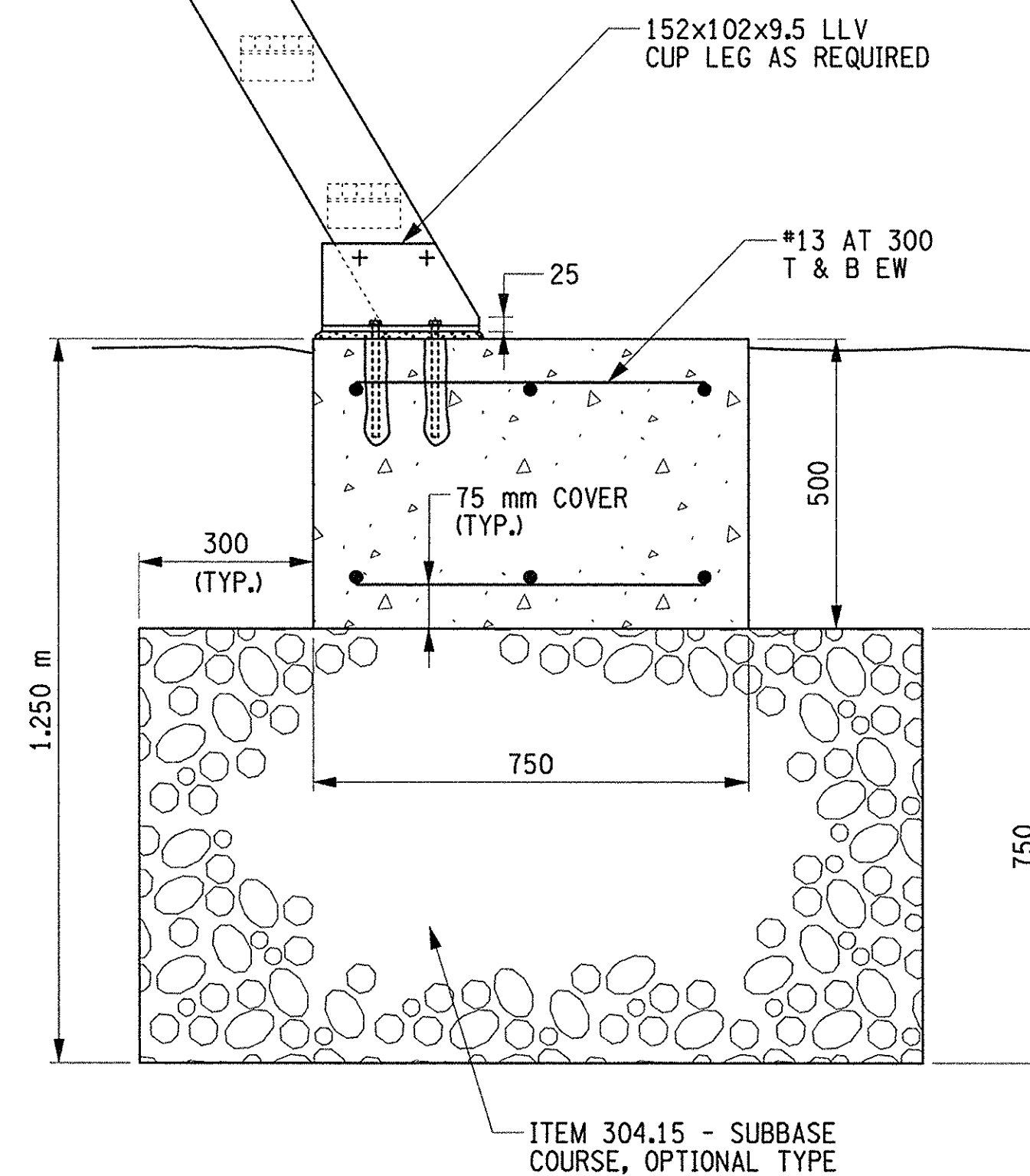




STAIRWAY ELEVATION
1:10

NOTE:

DRILLING AND GROUTING, REINFORCEMENT, NON-SHRINK GROUT AND ALL OTHER LABOR AND MATERIALS NECESSARY TO CONSTRUCT THE STAIR BASE SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 608.0101 - CONCRETE FOR SIDEWALKS AND DRIVEWAYS, UNLESS OTHERWISE NOTED.

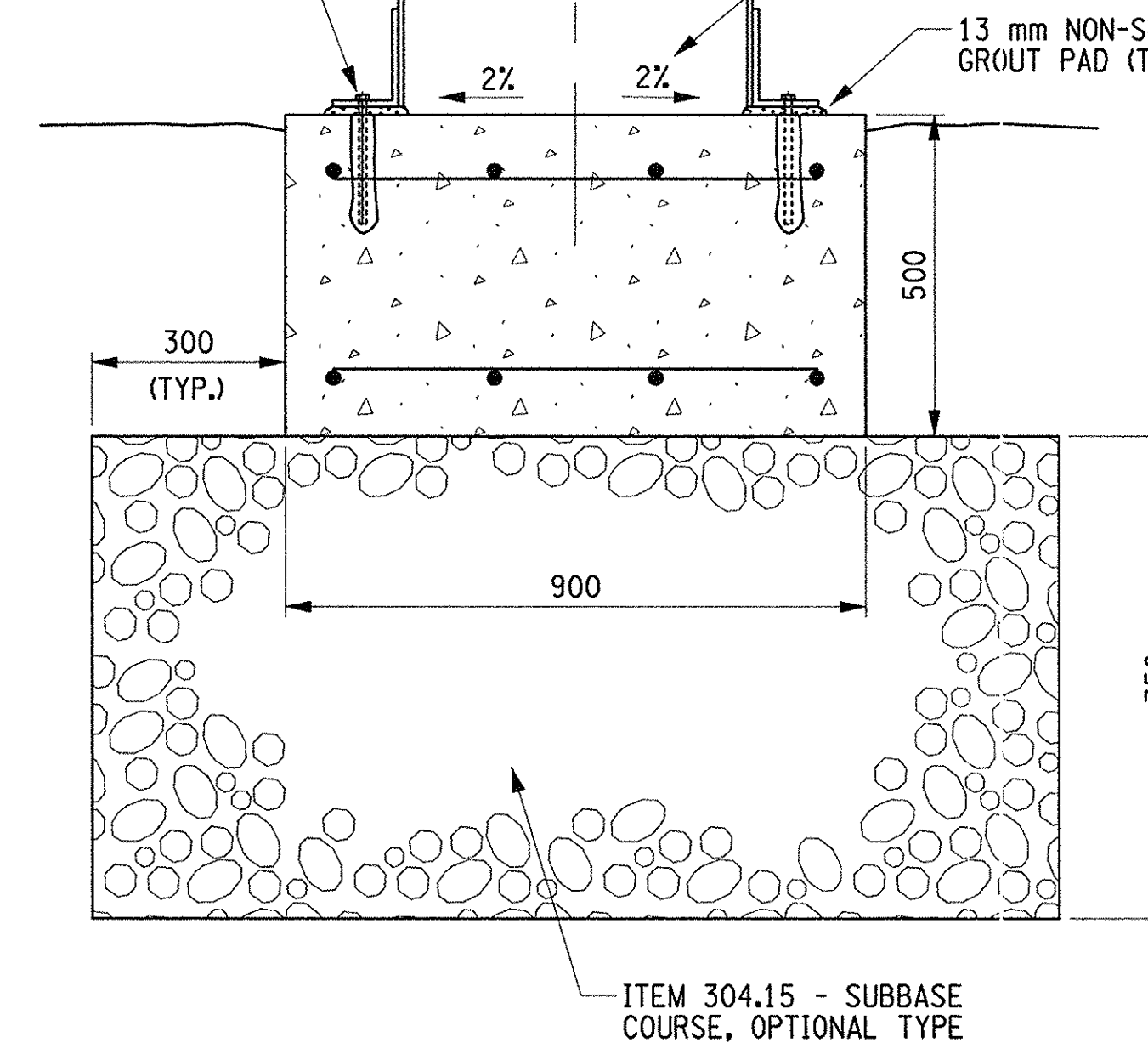


DETAIL AT STAIR BASE
1:10

DRILL AND GROUT M20 BOLTS
200 mm INTO CONCRETE (TYP.)

— PROVIDE 2% CROSS SLOPE

13 mm NON-SHRINK
GROUT PAD (TYP.)



ITEM 304.15 - SUBBASE
COURSE, OPTIONAL TYPE

No As-Built Revisions

NOTE:
ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE NOTED.

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

LOCATION OF PROJECT	SYRACUSE DIVISION
---------------------	-------------------

T-STRUCTURE CATWALK
DETAILS



CONTRACT NUMBER:

TAS 08-32I

DATE:
JULY 30, 2008

DRAWING NUMBER:

STR-7

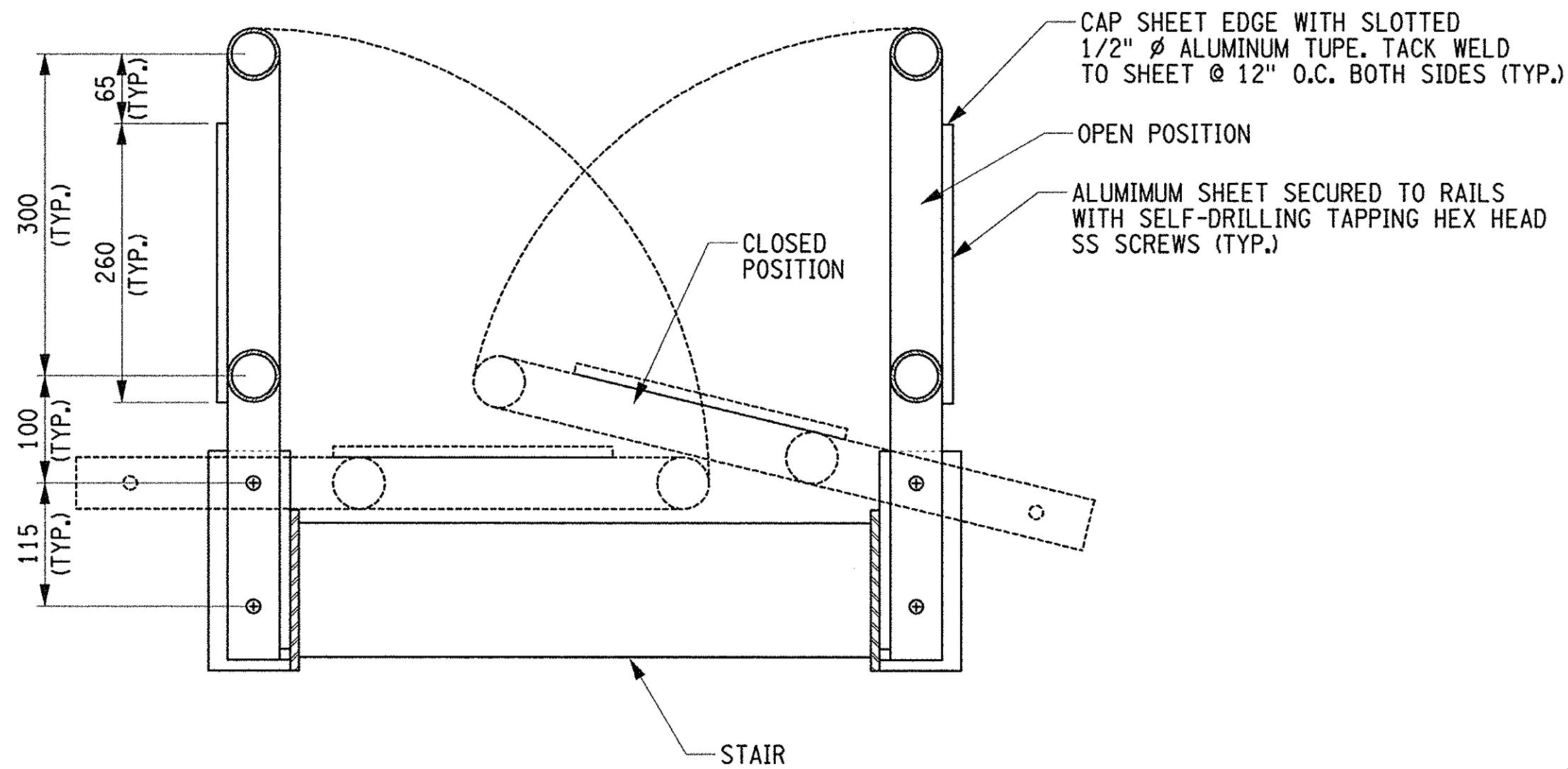


Stantec

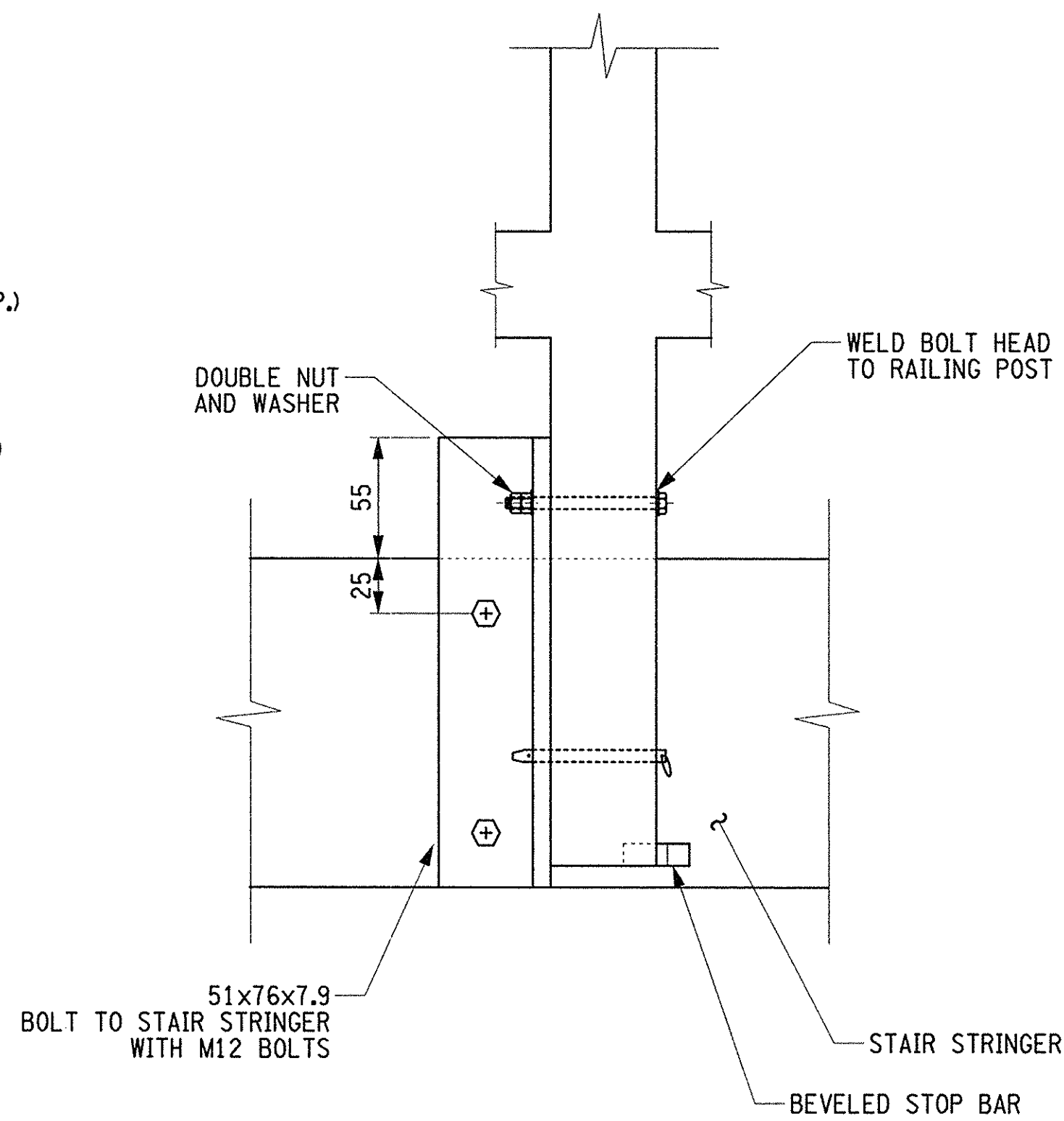
Plotted By: pldasoo
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Discipline: NYSDOT
Project: NY_Highway_Design
Node: BALASCP-SP1

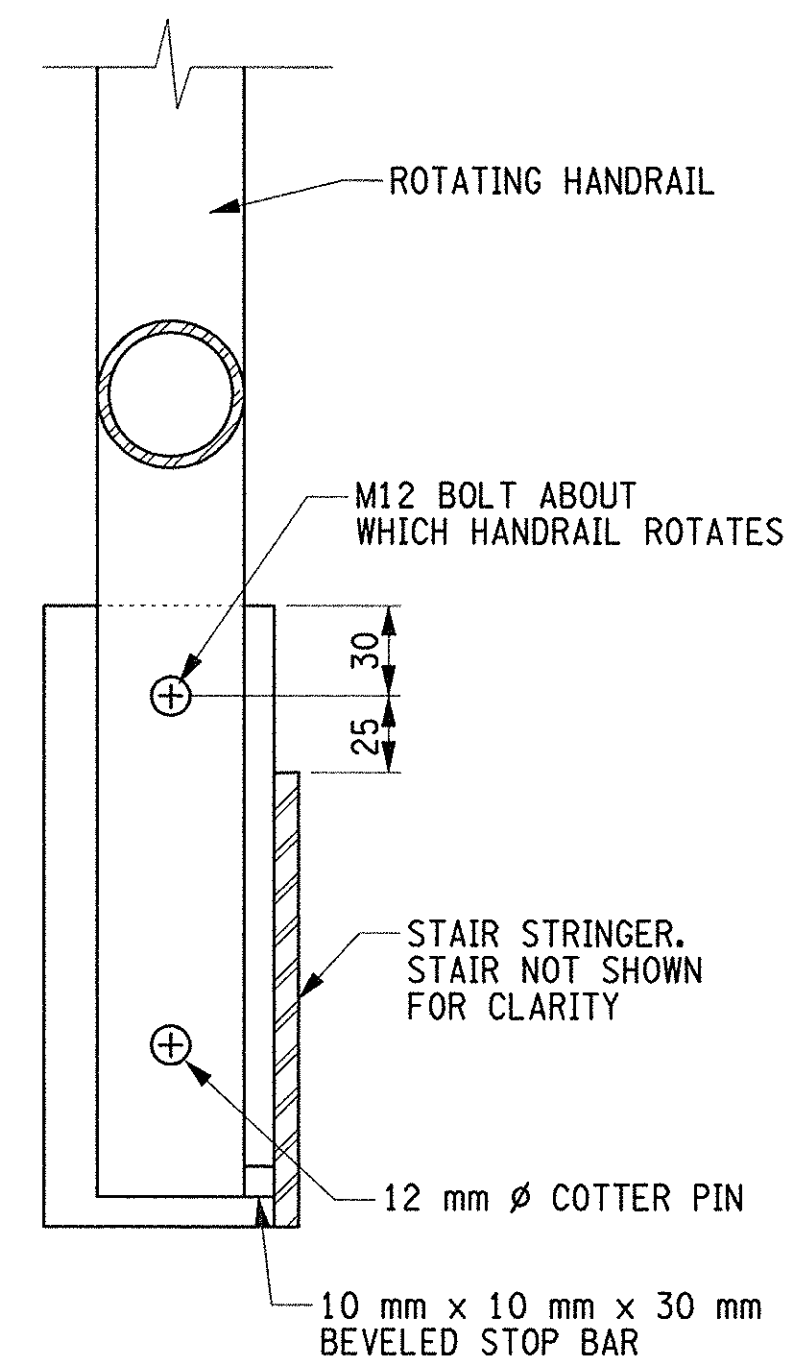
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DRAFTED BY: DESIGNED BY: IN CHARGE OF: CHECKED BY:



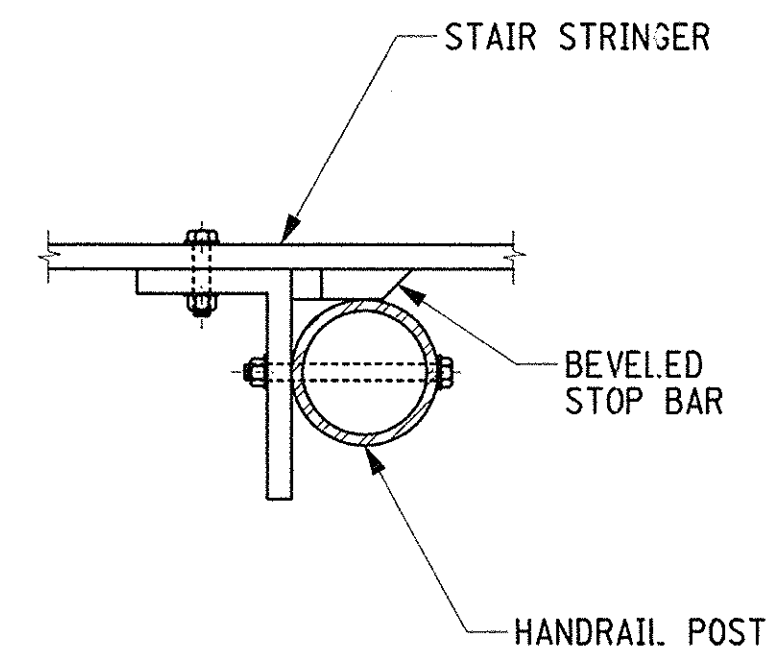
SHIP'S LADDER HANDRAIL DETAIL
1:5



ELEVATION



SECTION



PLAN

ROTATING HANDRAIL MOUNTING ASSEMBLY DETAILS
1:2.5

No As Built Revisions
NOTE:
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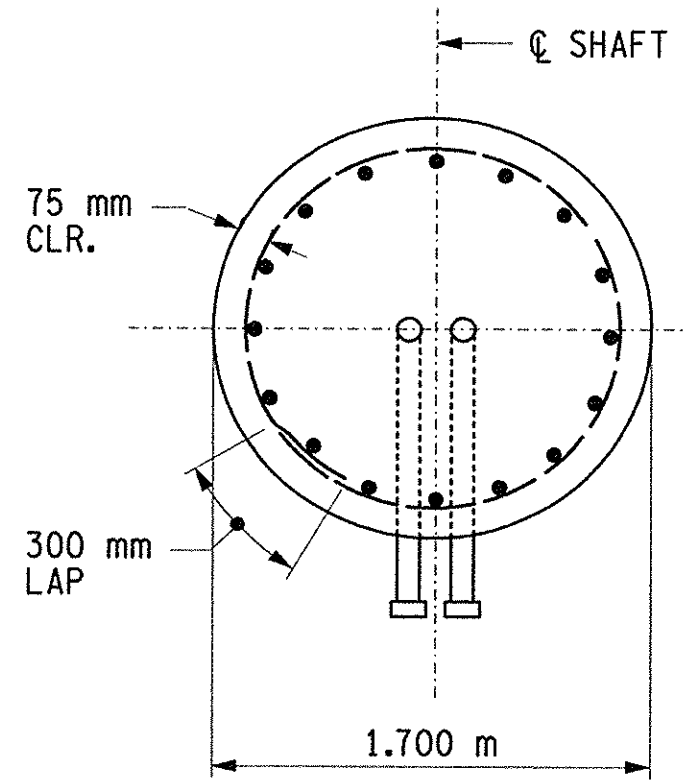
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT DEPLOYMENT OF ITS DEVICES I-90 VAR. LOC. SYRACUSE DIV.			
LOCATION OF PROJECT SYRACUSE DIVISION			
TITLE OF DRAWING T-STRUCTURE CATWALK DETAILS			
		CONTRACT NUMBER:	TAS 08-321
		DATE:	JULY 30, 2008
		DRAWING NUMBER:	STR-8



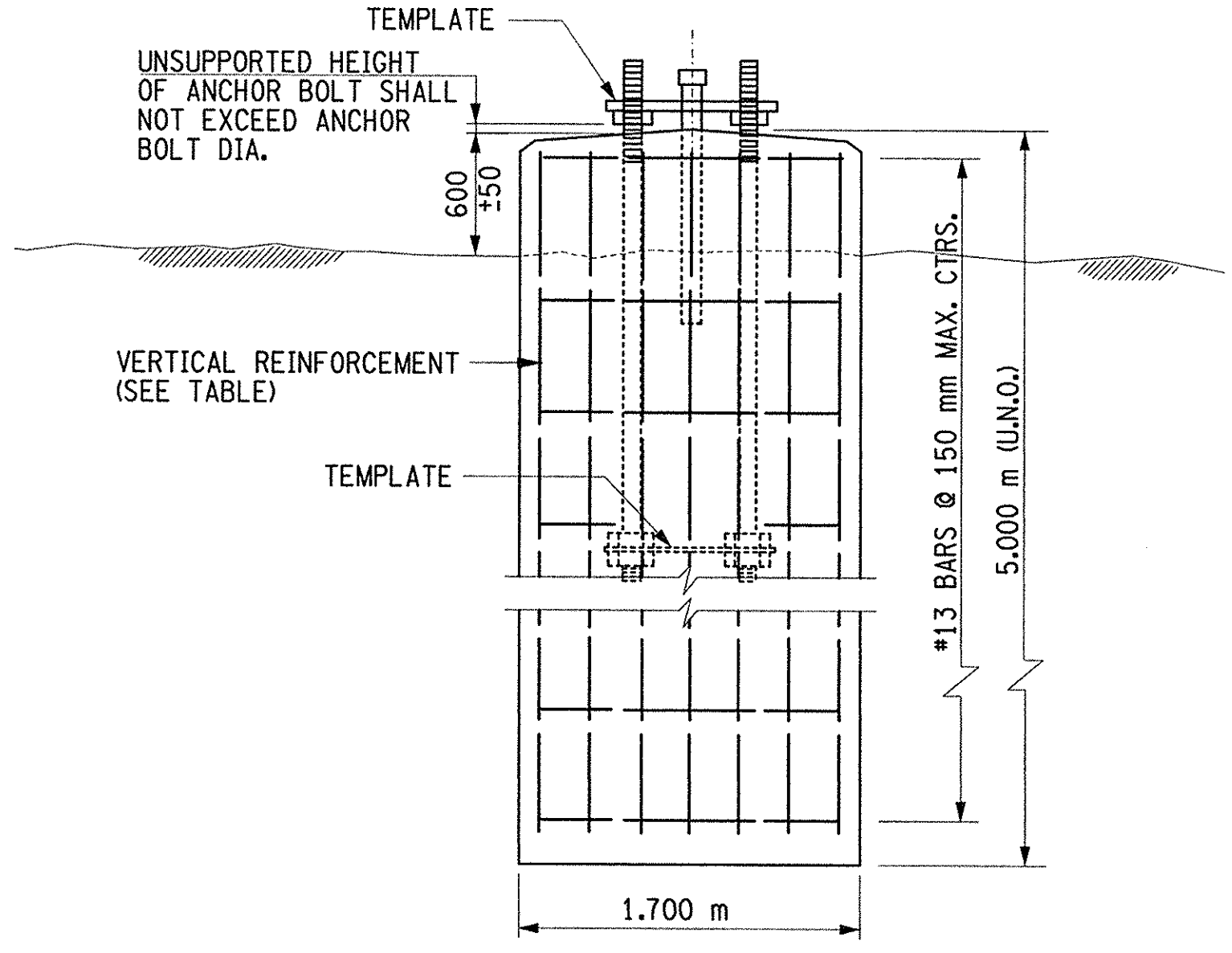
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Model: 1011657

Discipline: NYSDOT
Project: NY_Highway_Design
Model: BALASCO-SP1

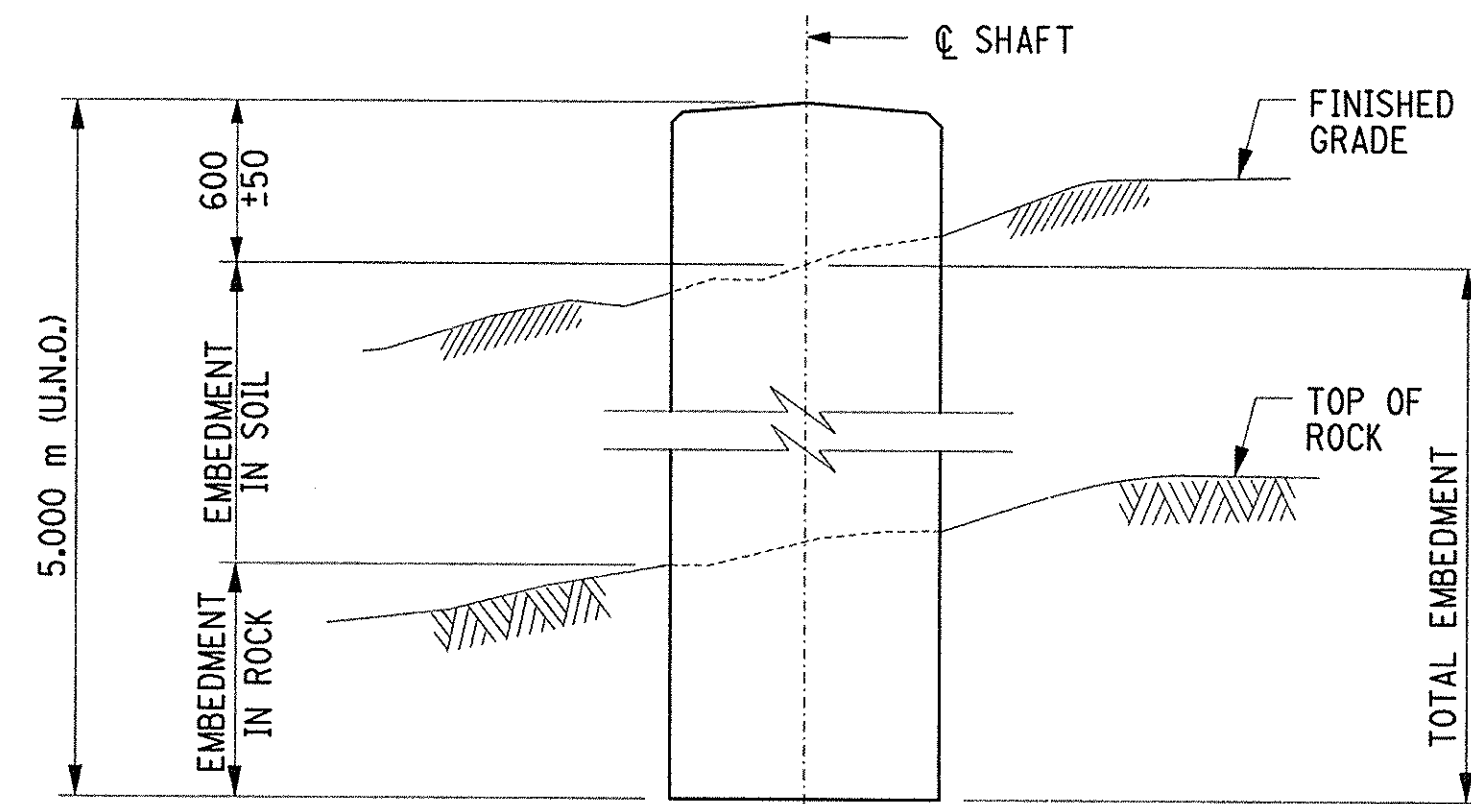
DESIGNED BY: DRAFTED BY: CHECKED BY: IN CHARGE OF:



PLAN
SHAFT



ELEVATION
SHAFT



SHAFT IN ROCK

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:

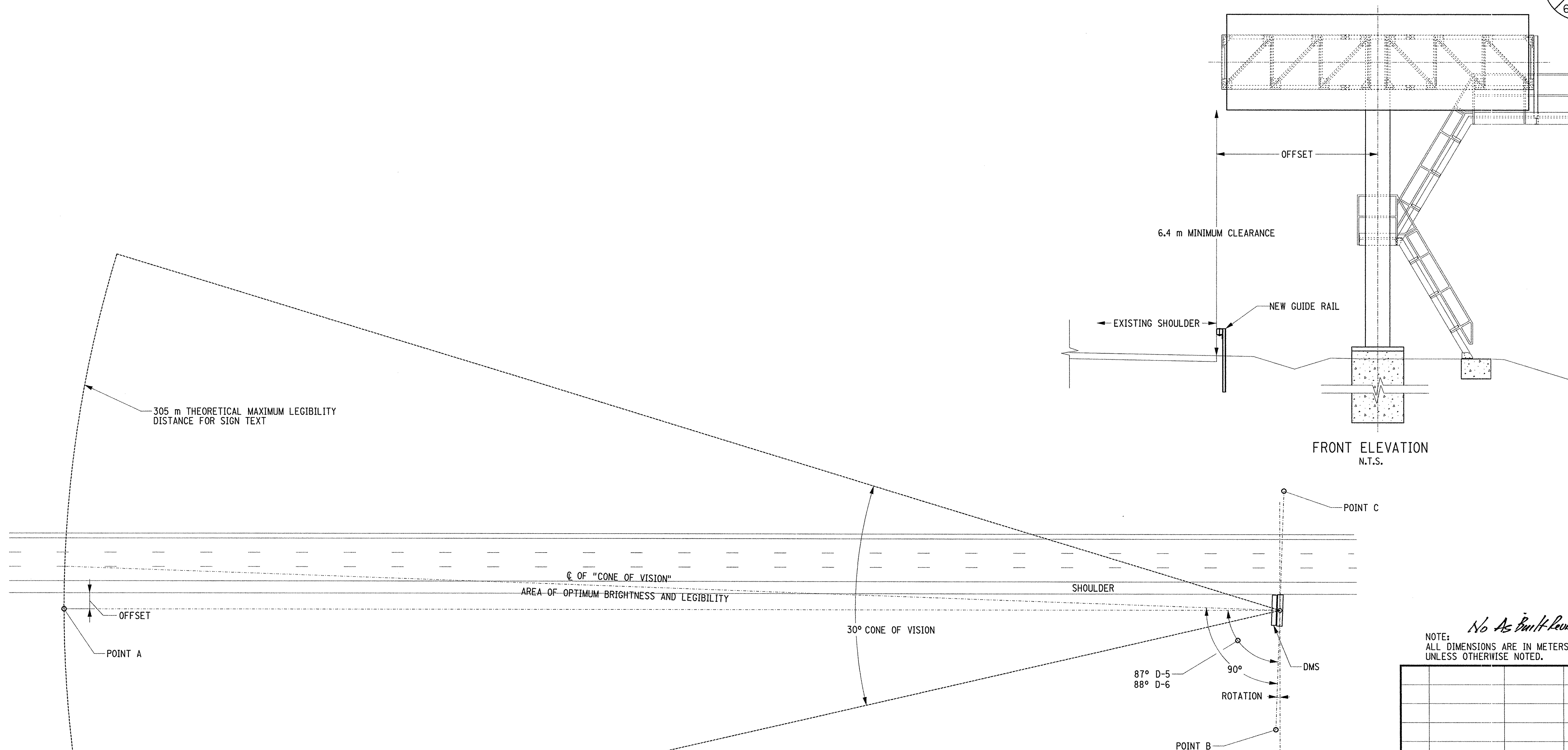
- FOR DETAILS OF ANCHOR BOLTS AND TEMPLATES, SEE STR-11.
- INSTALL TWO NPS 2 STD GALVANIZED CONDUITS IN SHAFT.
- IF UNANTICIPATED SOUND ROCK IS ENCOUNTERED WITHIN ONE DIAMETER OF THE BOTTOM OF A SHAFT EXCAVATION USE THE FULL SHAFT LENGTH AS CALL OUT IN T-STRUCTURE TABLE ON THIS SHEET. IF UNANTICIPATED 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.
- THE GEOTECHNICAL ENGINEERING BUREAU SHALL BE CONSULTED UNDER THE FOLLOWING CIRCUMSTANCES:
 - 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*
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DATE	DESCRIPTION	BY	SYN

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 FOUNDATION DETAILS			
	CONTRACT NUMBER:	TAS 08-321	
	DATE:	JULY 30, 2008	
	DRAWING NUMBER:	STR-9	





SIGN ORIENTATION DETAIL
N.T.S.

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.

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

NOTE:
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DATE	DESCRIPTION	BY	S

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

LOCATION OF PROJECT
SYRACUSE DIVISION

TITLE OF DRAWING
T-STRUCTURE
ORIENTATION DETAIL



CONTRACT NUMBER:

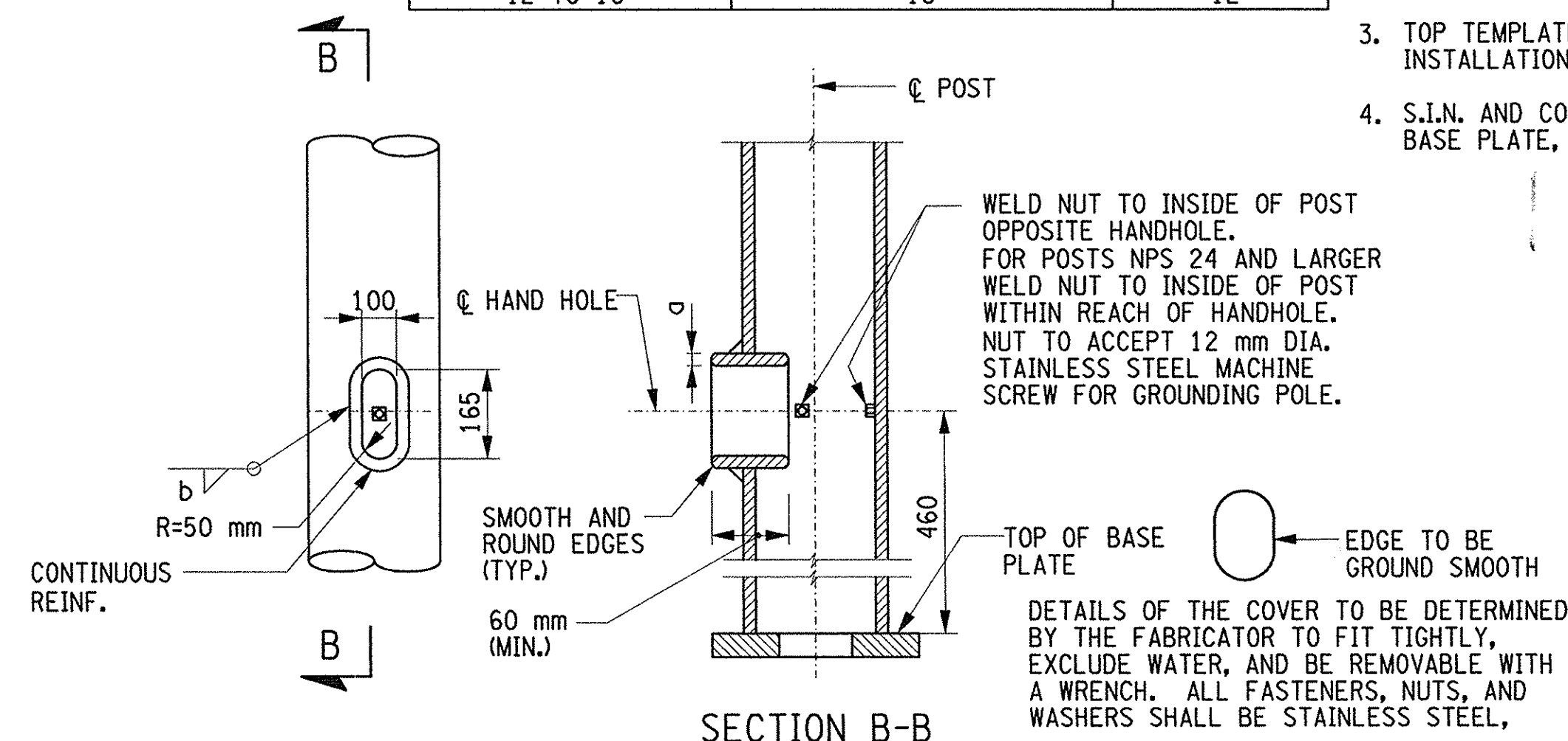
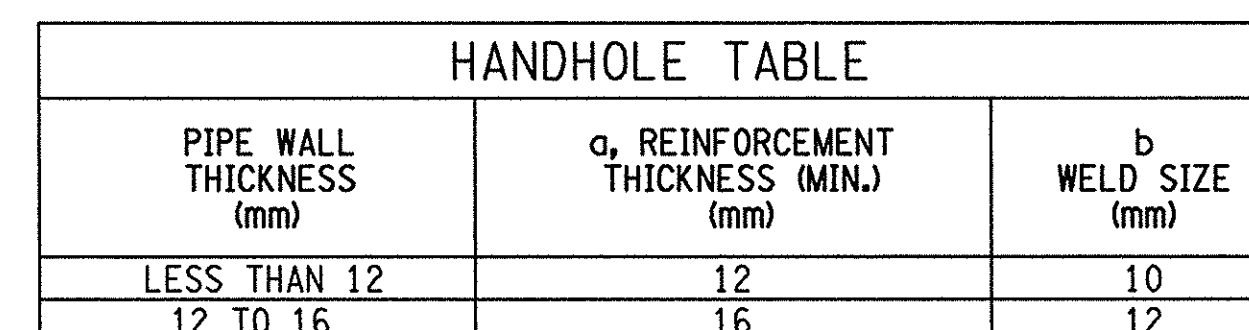
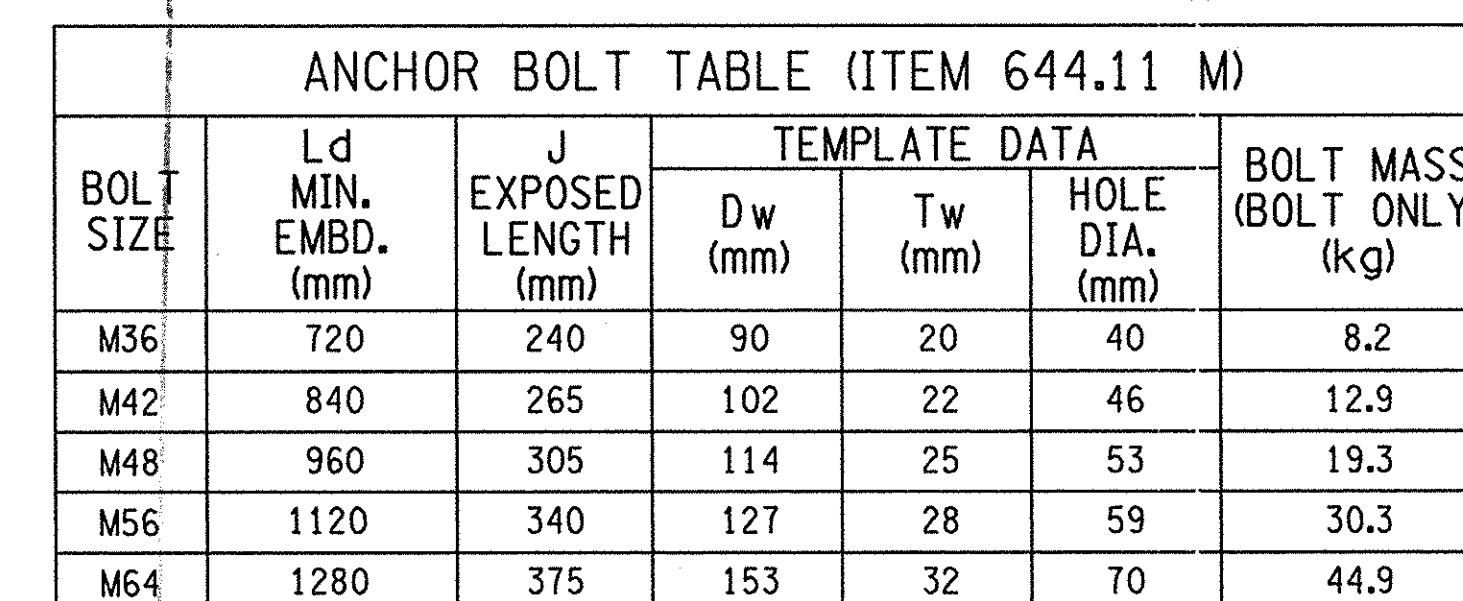
TAS 08-321

DATE:

DRAWING NUMBER:

STR-10



[illegible]

TITLE OF DRAWING

