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FILE NAME: P:\MSTA\2008\EX237800\CAD\700CADD\702STATIONS\South Acton\Civil\60% Design\G-2 Index of Drawings.dwg
 PLOT DATE: Sep 21, 2010 - 8:58am

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 MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01		SOUTH ACTON STATION INDEX OF DRAWINGS	
		HNTB 300 APOLLO DRIVE CHELSEA, MA 01824 (978) 955-1000	
PROJECT MANAGER _____ Date _____		DIRECTOR OF OPERATIONS SUPPORT _____ Date _____	
HORIZ: NONE VERT: NONE DATE: 09/30/10		DES. BY: JPB DR. BY: KMB CHK. BY: JGA PLAN NO. SHEET G-2 OF	
 343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		APPROVED BY: _____ _____	

FILE NAME: P:\MFTA\2008\2237800\CAD\700CAD00\702STATIONS\South Acton\Civil\60% Design\G-4 Legend & Abbrev.dwg
 PLOT DATE: Sep 21, 2010 - 8:59am

LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED
CB □	CB □	FA ⊠	FA ⊠
CBCI □	CBCI □	WB ⊠	WB ⊠
DI □	DI □	12" TREE (w/ DIA)	12" TREE (w/ DIA)
Ⓣ	Ⓣ	OHW	OHW
Ⓧ	Ⓧ	UGASLN-E UNDERGROUND GAS LINE	UGASLN-P
MH? ○		UWLN-E UNDERGROUND WATER LINE	UWLN-P
Ⓢ	Ⓢ	HCR	HCR
Ⓣ	Ⓣ	CSW	CSW
Ⓢ	Ⓢ	BCSW	BCSW
HH □	HH □	BCC	BCC
MHD □	MHD □	BCB	BCB
OPW □	OPW □	CCB	CCB
GG ○	GG ○	GC	GC
WG ○	WG ○	EOP	EOP
G? ○		CS○	CS○
☆	☆	CSG○	CSG
UP	UP	CS-PG○	CS-PG
UPL	UPL	CG○	CG
SGN ⊠	SGN ⊠	STK ⊠	STK ⊠
⊠	⊠	○ BOL	○ BOL
⊠	⊠	○ X-ING	○ X-ING
⊠	⊠	CP	CP
GW ⊠	GW ⊠	□ SCB	□ SCB
GP ⊠	GP ⊠	□ ELB	□ ELB
SB □	SB □	□ MP	□ MP
SBDH □	SBDH □	— — — — —	— — — — —
DH ○	DH ○	— — — — —	— — — — —
GM ○	GM ○	— — — — —	— — — — —
MB □	MB □	— — — — —	— — — — —
TEL ⊠	TEL ⊠	— — — — —	— — — — —
TS ⊠	TS ⊠	× 190.40	× 190.40
⊠	⊠	— — — — —	— — — — —

ABBREVIATIONS

AHD	AHEAD	N.A.V.D	NORTH AMERICAN VERTICAL DATUM
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	NIC	NOT IN CONTRACT
APPROX.	APPROXIMATE	NO.	NUMBER
BIT.	BITUMINOUS	N.T.S.	NOT TO SCALE
BL	BASELINE	O.C.	ON CENTER
BOT.	BOTTOM	O.D.	OUTSIDE DIAMETER
BR	BRIDGE	O.H./OH	OVER HEAD BRIDGE
BK	BACK	OTM	OTHER TRACK MATERIALS
CB	CATCH BASIN	PCMP	PERFORATED CORRUGATED METAL PIPE
CL	CENTER LINE	PK/NL	PARKER-KALON COMPANY NAIL
CIP	CAST IRON PIPE	P.S.I.	POUNDS PER SQUARE INCH
CLF	CHAIN LINK FENCE	PROP	PROPOSED
CMP	CORRUGATED METAL PIPE	PVC	POLYVINYL CHLORIDE
COMM.	COMMUNICATION	RCP	REINFORCED CONCRETE PIP
CONC.	CONCRETE	R/W	RIGHT OF WAY
CONST.	CONSTRUCTION	RH	RIGHT HAND TURNOUT
CP	CONCRETE PAD	ROW	RIGHT OF WAY
C&S	COMMUNICATION & SIGNAL	RR SPK	RAILROAD SPIKE
CULV.	CULVERT	RT.	RIGHT
DH	DRILL HOLE	RTE	ROUTE
DIA.	DIAMETER	SBC	STONE BOX CULVERT
DMH	DRAIN MANHOLE	SF	SQUARE FEET
EL	ELEVATION	SMH	SEWER MANHOLE
ELEV	ELEVATION	ST.	STREET
EQN	STATION EQUATION	STA/STA.	STATION
EXIST	EXISTING	STK/NL	STAKE NAIL
FT	FOOT	SWPPP	STORMWATER POLLUTION PREVENTION PLANS
GGR	GAS GATE GROUND	T.C.	TRACK CENTER
HDPE	HIGH DENSITY POLYETHYLENE	T/R-T.O.R.	TOP OF RAIL
HH	HAND HOLE	TBR	TO BE REMOVED
HORIZ.	HORIZONTAL	TYP	TYPICAL
INV	INVERT	TRK	TRACK
LH	LEFT HAND TURNOUT	UD	UNDERDRAIN
MAX	MAXIMUM	WET	WETLAND
MBCR	MASSACHUSETTS BAY COMMUTER RAIL		
MBTA	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY		
MIN	MINIMUM		
M.D.W.	MAINTENANCE OF WAY		
MP	MILE POST		
MPH	MILES PER HOUR		

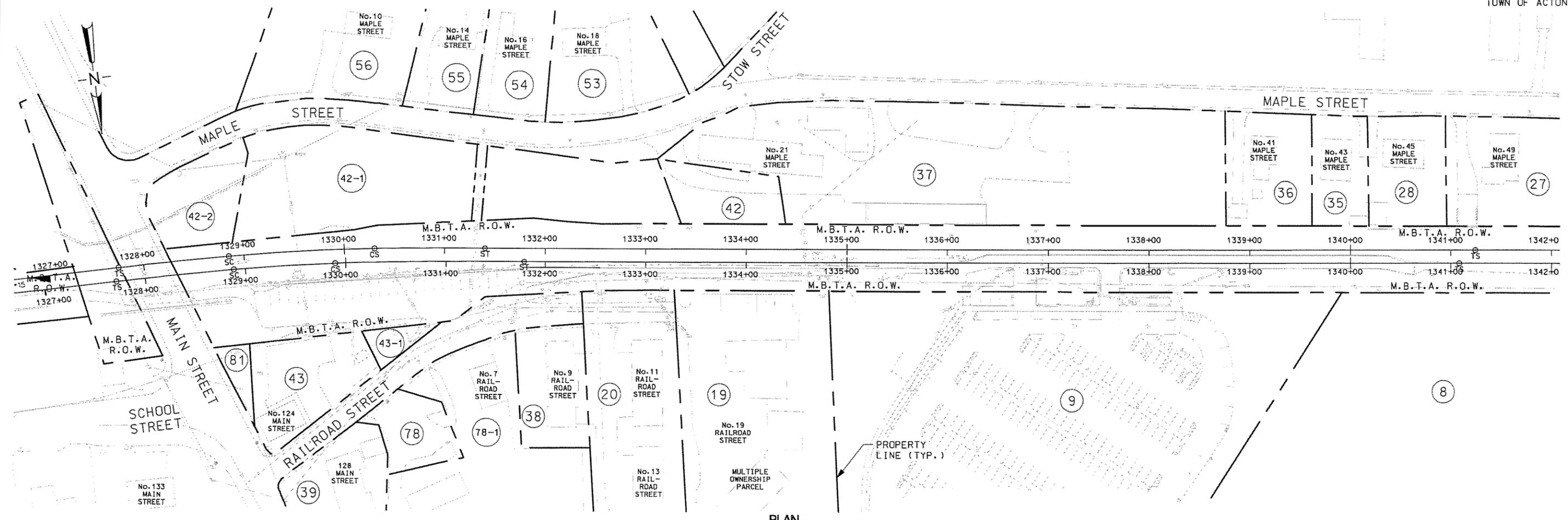
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NOTE:
 THIS LEGEND PERTAINS GENERALLY TO ALL "C" (CIVIL) DRAWINGS.

 MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01		SOUTH ACTON STATION LEGEND AND ABBREVIATIONS CIVIL	
		 300 APOLLO DRIVE CHELSEA, MA 02156 (978) 905-1000	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT
JACOBS 343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222	PROJECT MANAGER HORIZ: NONE VERT: NONE DATE: 09/30/10	DES. BY: JPB DR. BY: KMB CHK. BY: JGA	PLAN NO. SHEET G-4 OF

EAST TO BOSTON

WEST TO FITCHBURG
TOWN OF ACTON



PLAN

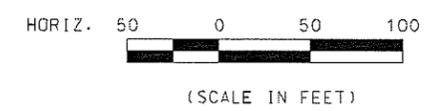
NOTES:

1. PROPERTY LINES: PROPERTY LINES WERE DEVELOPED BY REFERENCE TO RAILROAD VALUATION PLAN V.36-1, SHEETS 24 AND 25 OF JUNE 30, 1914, AND TO TOWN OF ACTON ASSESSOR'S MAP H-2A. LOCATIONS ARE APPROXIMATE.

LEGEND:

8 PARCEL NUMBER

60% SUBMITTAL
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T	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
SOUTH ACTION STATION RIGHT OF WAY AND PROPERTY PLAN		
HNTB	300 APOLLO DRIVE CHELSEA, MA 02124 (978) 905-4000	
	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
APPROVED BY:		DATE:
PROJECT MANAGER		DIRECTOR OF OPERATIONS SUPPORT
HORIZ: AS SHOWN	REV. BY: JPB	DATE: 09/30/10
VERT: NONE	DR. BY: KMB	
	CHK. BY: JM	
PLAN NO.		ISSUE
SHEET C-3 OF		

JACOBS		
343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		
ISSUE	DATE	DESCRIPTION
BY	CHKD.	APP.

FILE NAME: P:\MBTA\2008\2\37800\CAD\700CADD\702STATIONS\South Acton\Civil\60% Design\C-3 ROW and Property Plan.dwg
PLOT DATE: Sep 21, 2010 8:59am

MBTA PROPERTY ABUTTERS OWNERSHIP INFORMATION

Map	Parcel #	Lot	#	Street Name	Owner's Name	Co Grantee's Name	Mailing Address	City	State	Zip	Book/Page	Sale Date
H2	2		14	MARTIN ST	COOPER KRISTIN		14 MARTIN ST	ACTON	MA	01720	37633/ 143	1/10/2003
H2	5		77	MAPLE ST	SCANLON JOSEPH G	SCANLON KRYSKO REBECCA	77 MAPLE ST	ACTON	MA	01720	43178/ 453	6/30/2004
H2	6		75	MAPLE ST	SENNER JOHN	SENNER FAY B	75 MAPLE STREET	ACTON	MA	01720	20889/0245	11/29/1990
H2	7		14	MARTIN ST	COOPER KRISTIN		14 MARTIN ST	ACTON	MA	01720	37633/ 143	1/10/2003
H2	8		12	MARTIN ST	TOWN OF ACTON		472 MAIN STREET	ACTON	MA	01720	TL98957	2/12/2002
H2	9		4	CENTRAL ST	TOWN OF ACTON	PARKING LOT	472 MAIN STREET	ACTON	MA	01720	12943/0038	3/5/1976
H2	13		71	MAPLE ST	MILEY MARGARET	SHANLEY HARRY T	71 MAPLE ST	ACTON	MA	01720	28642/0462	5/29/1998
H2	17		65	MAPLE ST	BUCKINGHAM FERRY	BUCKINGHAM BETH E	65 MAPLE ST	ACTON	MA	01720	30960/0520	12/15/1999
H2	18		61	MAPLE ST	CHEN JENNIFER CRACKNELL		61 MAPLE ST	ACTON	MA	01720	28630/0123	5/28/1998
H2	19		19	RAILROAD ST #A1	GURTLER MICHAEL TRUSTEE		19 RAILROAD ST #A1	ACTON	MA	01720	331/19182	7/7/1998
H2	19		19	RAILROAD ST #A2	HOLT JASON M		19 RAILROAD ST #A2	ACTON	MA	01720	331/19182	7/7/1998
H2	19		19	RAILROAD ST #A3	MCMULLON LINDA D		19 RAILROAD ST #A3	ACTON	MA	01720	331/19182	7/7/1998
H2	19		19	RAILROAD ST #B1	GURTLER MICHAEL TRUSTEE		19 RAILROAD ST #B1	ACTON	MA	01720	331/19182	7/7/1998
H2	19		19	RAILROAD ST #B2	GURTLER MICHAEL TRUSTEE	RAILROAD REALTY TRUST	65 SILVER HLL ROAD	SUDBURY	MA	01776	331/19182	7/7/1998
H2	19		19	RAILROAD ST #B3	BOTTNER RICHARD		19 RAILROAD ST #B3	ACTON	MA	01720	331/19182	7/7/1998
H2	19		19	RAILROAD ST #C1	BELL KERSTIN E		PO BOX 701	S YARMOUTH	MA	02664	321/50264	10/23/2007
H2	19		19	RAILROAD ST #C2	GURTLER MICHAEL TRUSTEE	RAILROAD REALTY TRUST	65 SILVER HLL ROAD	SUDBURY	MA	01720	331/19182	7/7/1998
H2	19		19	RAILROAD ST #C3	TSUJI YUKIE L		19 RAILROAD ST #C3	ACTON	MA	01720	490/50402	11/28/2007
H2	19		19	RAILROAD ST #D1	ROBINS ELIZABETH A		19 RAILROAD ST #D1	ACTON	MA	01720	226/49036	2/25/2007
H2	19		19	RAILROAD ST #D2	JOHNSON LINDA M		19 RAILROAD ST #D2	ACTON	MA	01720	331/19182	7/7/1998
H2	19		19	RAILROAD ST #E1	GURTLER MICHAEL TRUSTEE	RAILROAD REALTY TRUST	65 SILVER HLL RD	SUDBURY	MA	01720	331/19182	7/7/1998
H2	19		19	RAILROAD ST #E2	GURTLER MICHAEL TRUSTEE		19 RAILROAD ST #E2	ACTON	MA	01720	331/19182	7/7/1998
H2	19		19	RAILROAD ST #E3	ZHANG MENG	WANG MIAOMIAO	19 RAILROAD ST #E3	ACTON	MA	01720	331/19182	7/7/1998
H2	19		19	RAILROAD ST #E4	LAMANQUE MICHELLE M		19 RAILROAD ST #E4	ACTON	MA	01720	564/48786	1/3/2007
H2	20		13	RAILROAD ST	RAILROAD STREET DEV LLC		PO BOX 985	ACTON	MA	01720	34320/ 423	12/14/2001
H2	25		57	MAPLE ST	TERAN GREGORY P	TAYLOR-TERAN LAURA K	57 MAPLE ST	ACTON	MA	01720	40690/ 551	8/29/2003
H2	26		55	MAPLE ST	ECKHARDT MARGARETHA M		55 MAPLE ST	ACTON	MA	01720	40171/ 214	7/28/2003
H2	27		49	MAPLE ST	GREGORY JILL S		49 MAPLE ST	ACTON	MA	01720	25853/0377	11/29/1995
H2	28		45	MAPLE ST	GLENN HENRY J	DIANA F	45 MAPLE ST	ACTON	MA	01720	13432/0201	5/2/1978
H2	35		43	MAPLE ST	MINKIN MAYA MARCELLA	MAXWELL GREGORY	43 MAPLE ST	ACTON	MA	01720	38332/ 060	3/14/2003
H2	36		41	MAPLE ST	HAYWARD ERNESTINE		41 MAPLE STREET	ACTON	MA	01720	06931/0469	1/22/1946
H2	37		21	MAPLE ST	RICHARDS GORDON D		60 CHARTER ROAD	ACTON	MA	01720	11658/0673	3/31/1969
H2	38		9	RAILROAD ST	RAILROAD STREET DEVELOPMENT, LLC		PO BOX 985	ACTON	MA	01720	34320/ 422	12/14/2001
H2	39		128	MAIN ST	IRON WORK FARM IN ACTON INC	C/O ANNE FORBES	PO BOX 1111	W ACTON	MA	01720	10725/0285	12/31/1964
H2	42		19	MAPLE ST	RICHARDS GORDON D		60 CHARTER ROAD	ACTON	MA	01720	37337/ 382	
H2	42	1	1	MAPLE ST	MONTOURI REALTY CO		5419 VISTA LEJANA NE	ALBUQUERQUE	NM	87111	37337/ 382	12/11/2002
H2	42	2	1	MAPLE STREET	COMMONWEALTH OF MASSACHUSETTS		DEPARTMENT OF HIGHWAYS	BOSTON	MA	02108	26620/ 363	8/29/1996
H2	43		124	MAIN ST	CHEN FRANK	ZHANG XIAO FAN	124 MAIN ST	ACTON	MA	01720	43559/ 297	8/20/2004
H2	43	1	6	RAILROAD ST	ACTON TOWN OF		472 MAIN ST	ACTON	MA	01720	31318/0060	3/28/2000
H2	47		3	SCHOOL ST	TOWN OF ACTON	TREE DEPARTMENT	472 MAIN STREET	ACTON	MA	01720	03247/0263	8/25/1906
H2	48		9	SCHOOL ST	PORRAZZO DANIEL		43 KINSLEY ROAD	ACTON	MA	01720	28252/0596	3/3/1998
H2	49		13	SCHOOL ST	TOWN OF ACTON		472 MAIN STREET	ACTON	MA	01720	20893/ END	11/30/1990
H2	57		113	MAIN ST	ERIKSON GRAIN MILL		PO BOX 2263	ACTON	MA	01720	12958/0265	4/9/1976
H2	78		3	RAILROAD ST	KINGSWOOD CORP		PO BOX 1327	LITTLETON	MA	01460	45122/ 135	5/4/2005
H2	78	1	7	RAILROAD ST	NUTTING THOMAS E		130 MAIN ST	ACTON	MA	01720	15544/ 55	4/30/1984
H2	79		16	MARTIN ST	SWEENEY JOHN P	SWEENEY ANN-MARIE MANNA	16 MARTIN STREET	ACTON	MA	01720	25240/0592	3/24/1995
H2	81		120	MAIN ST	TOWN OF ACTON		472 MAIN STREET	ACTON	MA	01720	03247/0263	8/24/1906
H2	56		10	MAPLE ST	KOZEL PETER D	YOUNG KIMBERLY A	10 MAPLE ST	ACTON	MA	01720	44668/352	3/29/2005
H2	55		14	MAPLE ST	MIGUELEZ AVELINO		14 MAPLE ST	ACTON	MA	01720	50918/449	3/21/2008
H2	54		16	MAPLE ST	HANLEY SEAN P	HANLEY CHRISTINE L	16 MAPLE ST	ACTON	MA	01720	36150/609	8/16/2002
H2	53		18	MAPLE ST	MANNING STEVEN T		18 MAPLE ST	ACTON	MA	01720	32111/0208	12/7/2000
H2	62		2	STOW ST	CAQUETTE FRANCES + MARY ANN TRUSTEE SIMONE JOHN E TRUSTEE	THE SIMON IRRECOVERABLE TRUST	90 MARTIN ST	ACTON	MA	01720	31063/229	1/19/2000

NOTES:

1. PROPERTY OWNERSHIP INFORMATION: THE MBTA ABUTTER INFORMATION CONTAINED IN THE TABLE AT LEFT WAS PROVIDED BY THE TOWN OF ACTON ASSESSOR'S OFFICE BETWEEN 2008 AND 2010.

FILE NAME: P:\MBTA\2008\2237800\CAD\700CADD\70ZSTATIONS\South Acton\Civil\60% Design\C-4 ROW and Property Plan Info.dwg
PLOT DATE: Sep 21, 2010 - 8:59am

60% SUBMITTAL
NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION RIGHT OF WAY AND PROPERTY OWNERSHIP DATA	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
		DATE: 09/30/10	

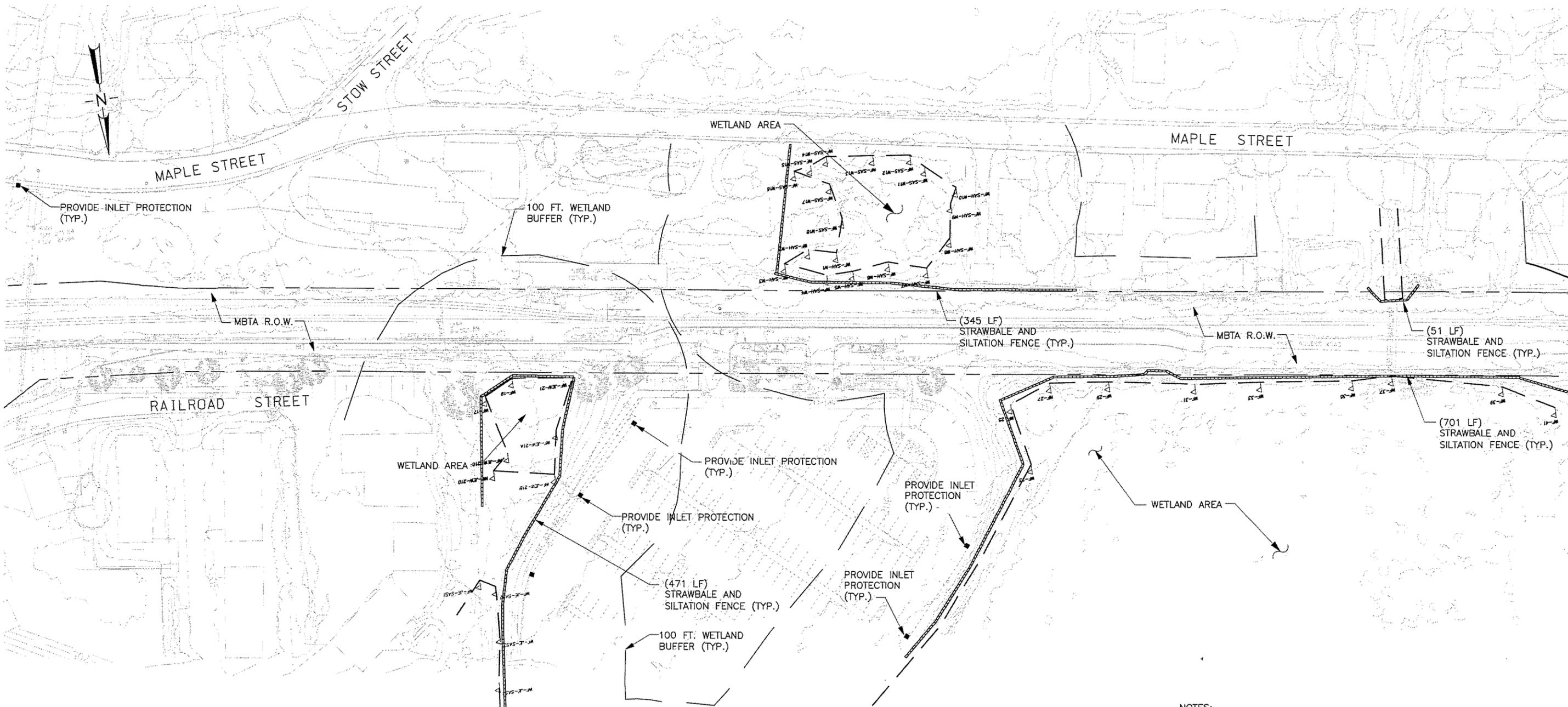
		343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222	
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ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.
PROJECT MANAGER HORIZ: AS SHOWN VERT: NONE DATE: 09/30/10			DES. BY: JPB DR. BY: KMB CHK. BY: JM		
PLAN NO. SHEET C-4 OF			ISSUE		

EAST TO
BOSTON

WEST TO
FITCHBURG

TOWN OF ACTON

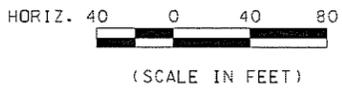


PLAN

NOTES:

1. EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). SEE SPECIFICATIONS FOR DETAILS.

60% SUBMITTAL
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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
FITCHBURG COMMUTER RAIL LINE
IMPROVEMENT PROJECT
CONTRACT NO. G67PS01

**SOUTH ACTON STATION
EROSION CONTROL PLAN**

HNTB 300 APOLLO DRIVE
CHELSEA, MA 02156
(978) 905-4000

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT MANAGER	DATE	DIRECTOR OF OPERATIONS SUPPORT	DATE

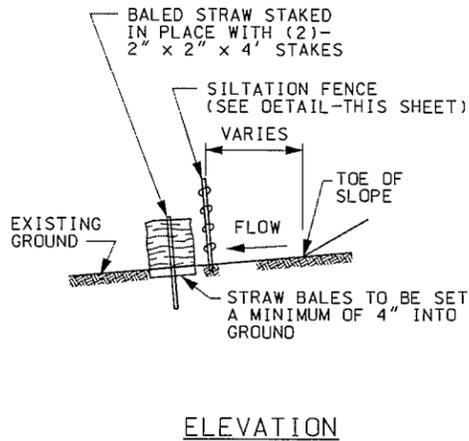
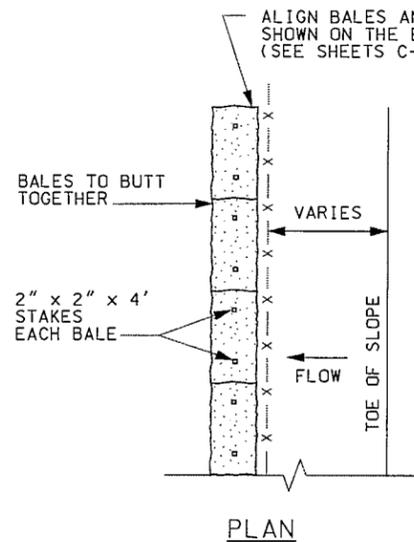
JACOBS 343 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222

HORIZ: AS SHOWN
VERT: NONE
DATE: 09/30/10

DES. BY: MDeC
CHK. BY: KMB
DATE: 09/30/10

PLAN NO.
SHEET C-5 OF

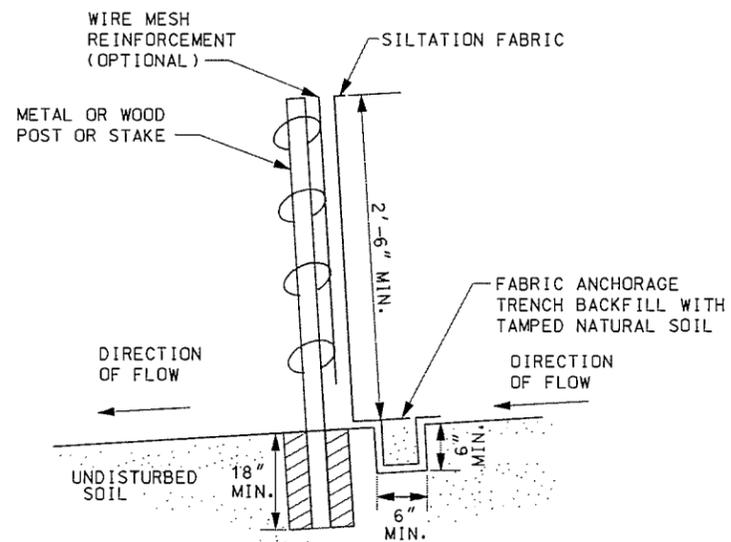
FILE NAME: P:\MBTA\2008\2X\37900\CAD\700CADD\702STATIONS\South Acton\Civil\60% Design\C-5 Erosion Control Plan.dwg
PLOT DATE: Sep 21, 2010 8:59am



NOTE:

1. TO BE USED WHERE THE EXISTING GROUND SLOPES AWAY FROM THE EMBANKMENT

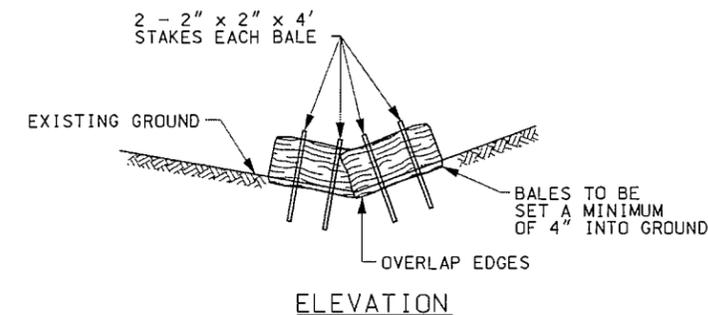
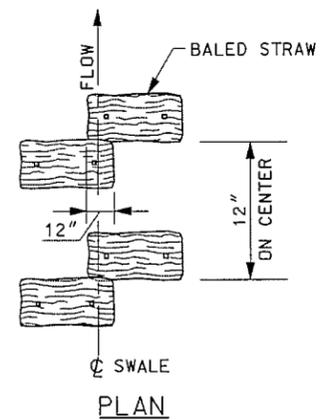
BALED STRAW EROSION CHECKS TYPE "B"
N.T.S.



NOTES:

1. ATTACH FABRIC TO WIRE MESH WITH HOG RINGS, STEEL POSTS WITH TIE WIRES, OR WOOD POSTS WITH STAPLES.
2. SPLICES SHALL BE MADE AT FENCE POSTS. FABRIC SHALL BE OVERLAPPED 6" AND SECURELY FASTENED.
3. POST SPACING SHALL BE A MAXIMUM OF 4' O.C. WITHOUT SUPPORTING WIRE MESH, OR 10' O.C. WITH WIRE MESH.
4. POSTS SHALL BE 4" DIAMETER WOOD OR STEEL WEIGHING NOT LESS THAN 1.3 LB/LIN. FT.

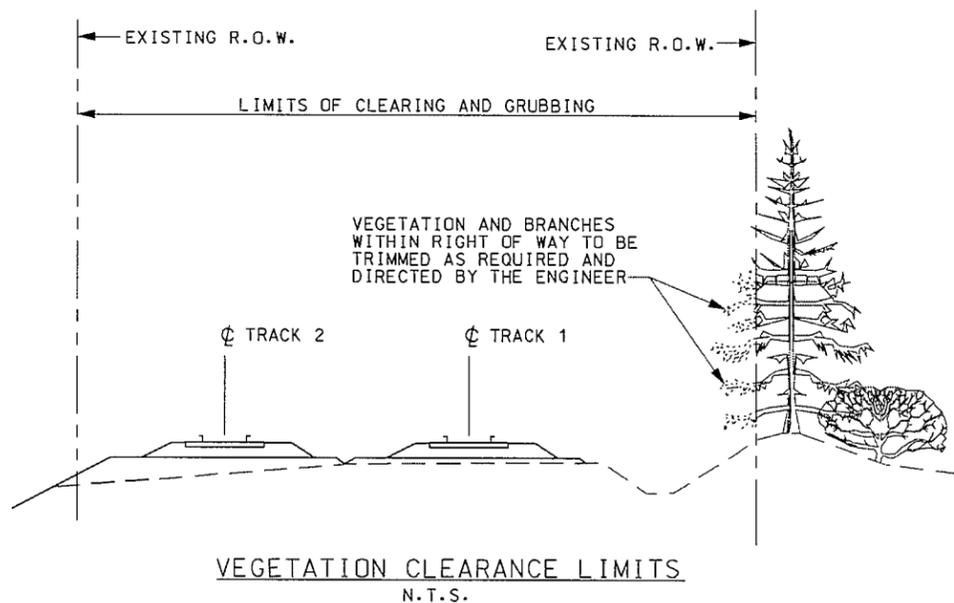
SILTATION FENCE DETAIL
N.T.S.



NOTES:

1. TO BE USED WHERE THE EXISTING GROUND SLOPES TOWARD THE EMBANKMENT.
2. ALL SILTATION BARRIERS SHALL BE BALED STRAW, UNLESS OTHERWISE SHOWN ON THE PLANS.

BALED STRAW EROSION CHECKS TYPE "A"
N.T.S.



VEGETATION CLEARANCE LIMITS
N.T.S.

NOTE:

1. EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). SEE SPECIFICATIONS FOR DETAILS.

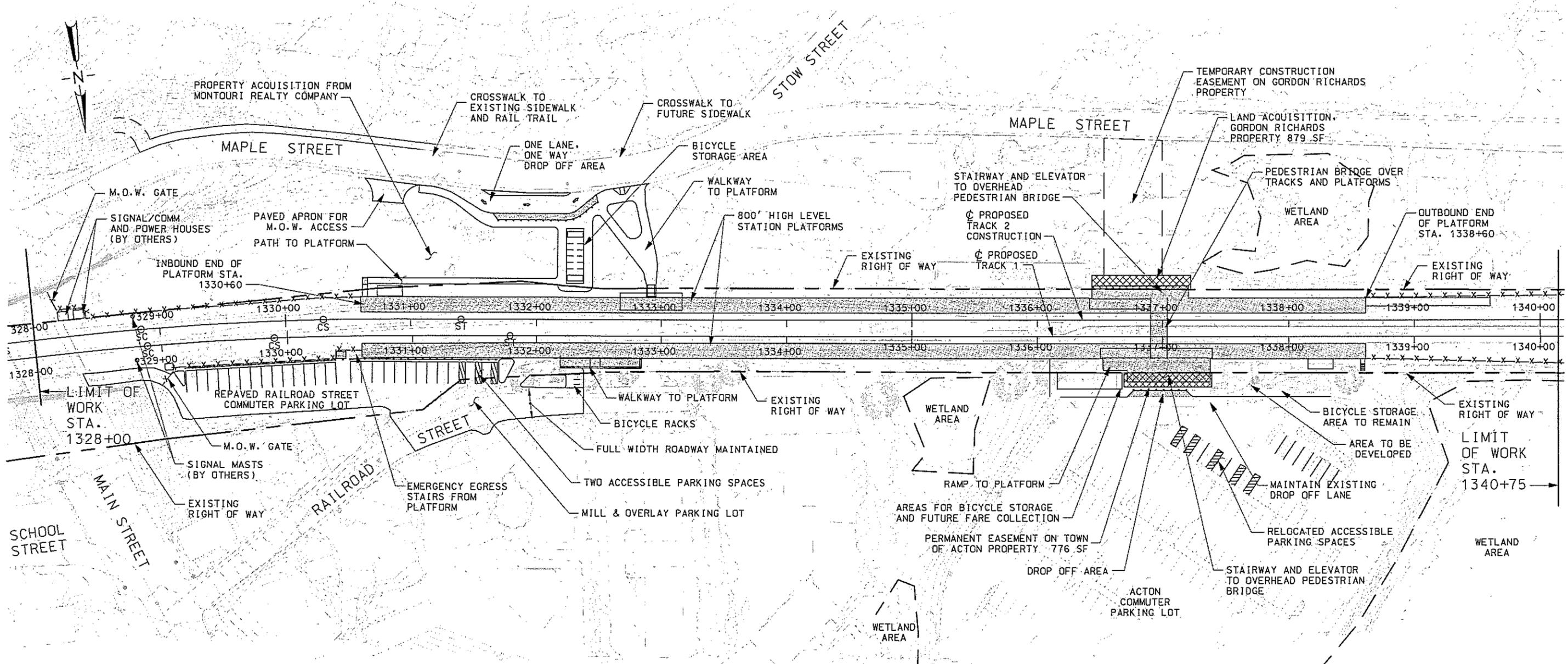
60% SUBMITTAL
NOT FOR CONSTRUCTION

T	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
SOUTH ACTON STATION EROSION CONTROL DETAILS		

		300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-1000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
		APPROVED BY: _____ DATE: _____		DIRECTOR OF OPERATIONS SUPPORT DATE: _____	
JACOBS 343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		PROJECT MANAGER HORIZ: AS SHOWN VERT: NONE DATE: 09/30/10	DES. BY: MDeC DR. BY: CWB CHK. BY: JGA	PLAN NO. SHEET C-6 OF	ISSUE NO.

EAST TO BOSTON

WEST TO FITCHBURG
TOWN OF ACTON



PLAN

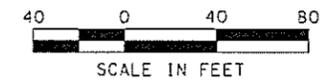
NOTES:

1. NO POINT ON PLATFORM IS FURTHER THAN 325 FT. FROM THE NEAREST EGRESS POINT.
2. FOR GENERAL NOTES SEE SHEET C-3.

LEGEND:

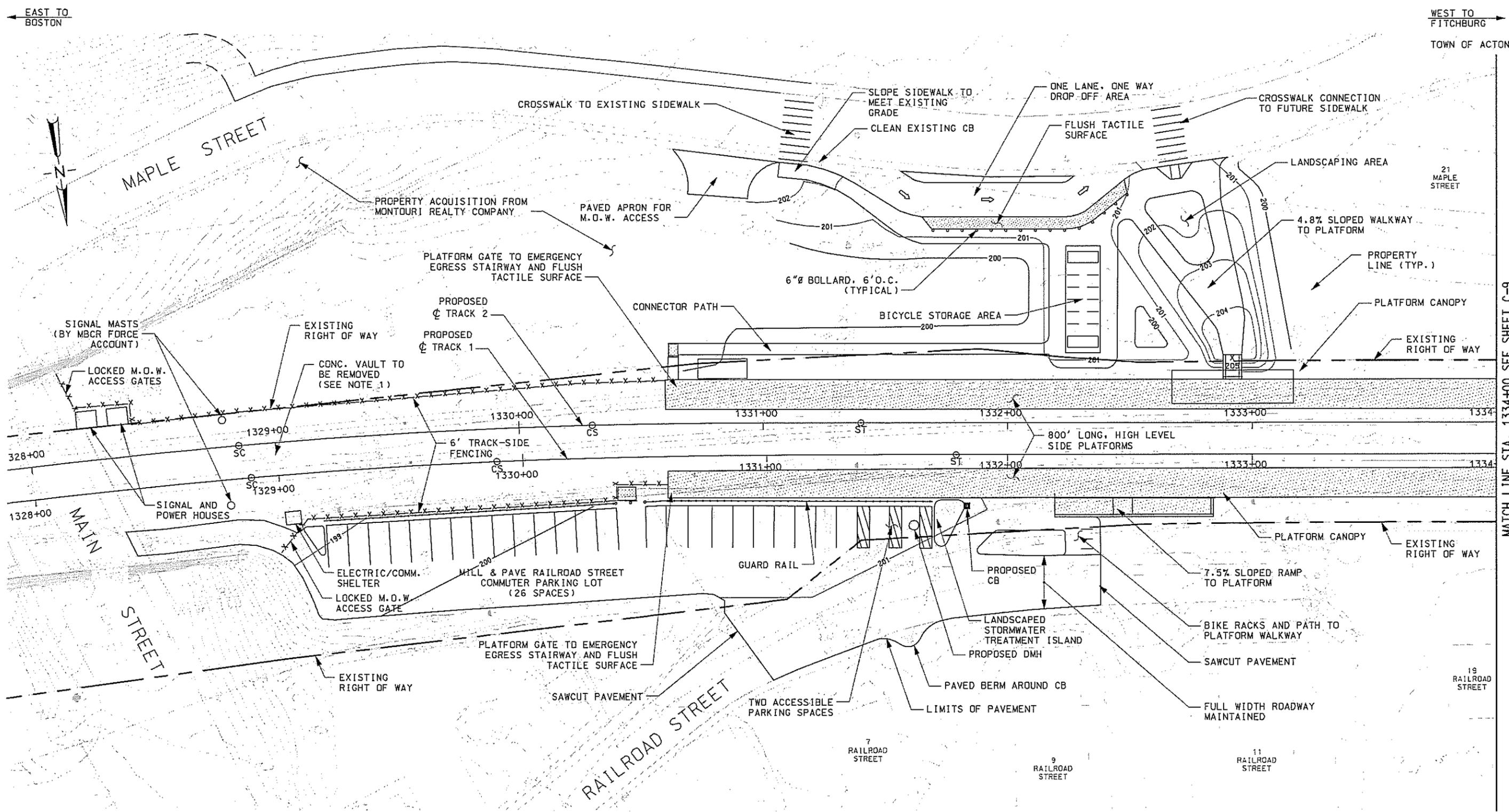
- PERMANENT EASEMENT
- PLATFORM, STAIRS AND ELEVATORS

60% SUBMITTAL
NOT FOR CONSTRUCTION



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01		SOUTH ACTON STATION GENERAL SITE PLAN	
		HNTB 300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-4000	
PROJECT MANAGER HORIZ: AS SHOWN VERT: NONE DATE: 09/30/10		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
JACOBS 343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		PLAN NO. _____ SHEET C-7 OF _____	

FILE NAME: P:\HNTA\2008\22X37800\CAD\700CAD\702STATIONS\South Acton\Civil\60% Design\C-7 General Site Plan.dwg
 PLOT DATE: Sep 21, 2010 - 8:59am



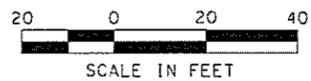
PLAN - EAST END

NOTES:

- CONTRACTOR SHALL REMOVE AND DISPOSE OF CONCRETE VAULT. PRIOR TO REMOVAL AND DISPOSAL ENSURE THERE ARE NO OPERATING UTILITIES BURIED BENEATH THE SAND AND DIRT WITHIN THE VAULT. IF UTILITIES ARE FOUND ARRANGE FOR APPROPRIATE RELOCATION AS REQUIRED.

LEGEND:

PLATFORM, STAIRS AND ELEVATORS



60% SUBMITTAL
NOT FOR CONSTRUCTION

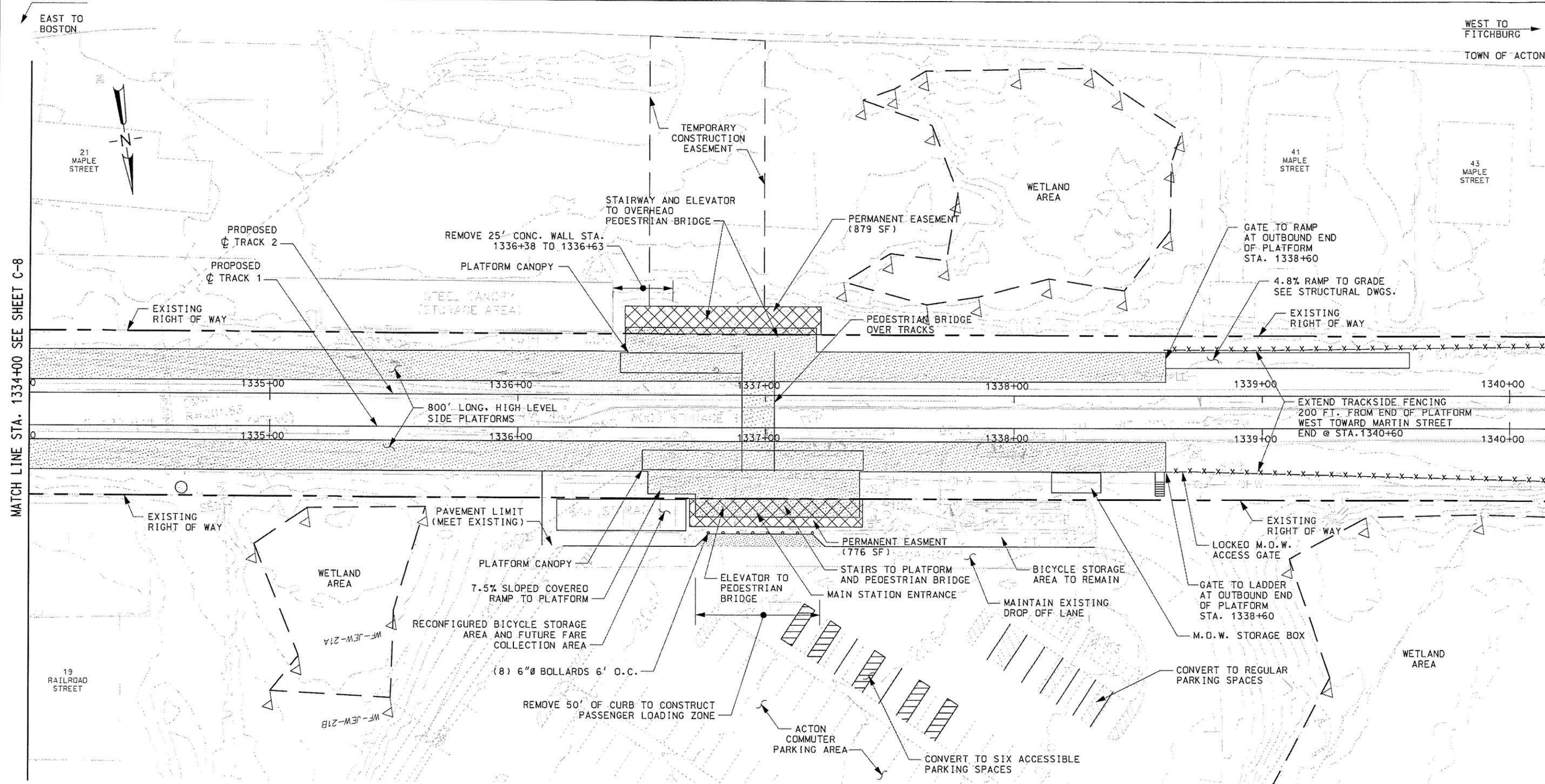
FILE NAME: F:\MBA\2008\237600\CAD\7000CAD\702STATIONS\South Acton\Civil\60% Design\C-8 & C-9 Detailed Site Plans.dwg
PLOT DATE: Sep 21, 2010 8:59am

MATCH LINE STA. 1334+00 SEE SHEET C-9

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION DETAILED SITE PLAN - EAST END SHEET 1 OF 2	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ Date: _____ DIRECTOR OF OPERATIONS SUPPORT	
		PROJECT MANAGER: _____ Date: _____ HORIZ: AS SHOWN VERT: NONE DATE: 09/30/10	
JACOBS <small>343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222</small>		PLAN NO. _____ SHEET C-8 OF _____	

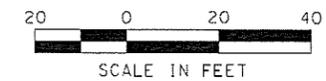
FILE NAME: P:\MBTA\2008\2337800\CAD\700CADD\702STATIONS\South Acton\702STATIONS\C-8 & C-9 Detailed Site Plans.dwg
 PLOT DATE: Sep 21, 2010 - 8:59am

MATCH LINE STA. 1334+00 SEE SHEET C-8



PLAN - WEST END

- LEGEND:**
- PERMANENT EASEMENT
 - PLATFORM, STAIRS AND ELEVATORS

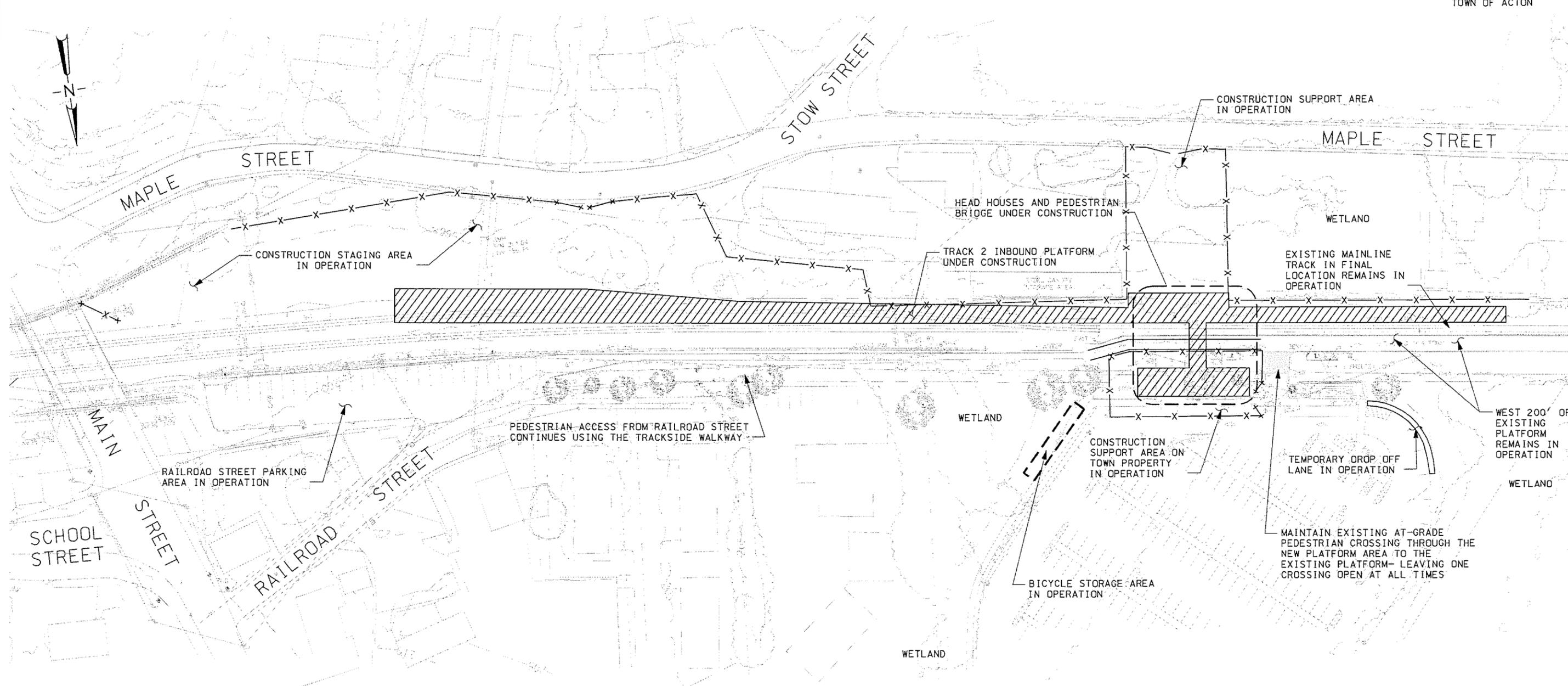


60% SUBMITTAL
 NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION DETAILED SITE PLAN - WEST END SHEET 2 OF 2	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
		DATE: 09/30/10	
JACOBS 343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		PROJECT MANAGER: _____ DATE: 09/30/10	
HORIZ: AS SHOWN VERT: NONE DATE: 09/30/10		PLAN NO. _____ SHEET C-9 OF _____	

EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF ACTON



PLAN - PHASE 2

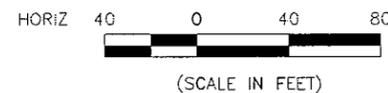
CONSTRUCT THE INBOUND PLATFORM, BOTH ELEVATOR AND STAIR HEADHOUSES, AND OVERHEAD BRIDGE WHILE EXISTING PLATFORM REMAINS IN OPERATION. (APPROX. DURATION 9 MONTHS)

NOTES:

1. FOR CONSTRUCTION STAGING NOTES SEE SHEET C-14.
2. THERE IS NO PEDESTRIAN ACCESS FROM MAPLE STREET. STATION USERS MUST CROSS OVER THE MAIN STREET BRIDGE TO ACCESS THE EXISTING PLATFORM FROM RAILROAD STREET.

LEGEND:

 WORK UNDER CONSTRUCTION



60% SUBMITTAL
 NOT FOR CONSTRUCTION

T	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
SOUTH ACTON STATION CONSTRUCTION STAGING PLAN PHASE 2		
HNTB 300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-4000	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER: _____ DATE: 09/30/10		DATE: _____
HORIZ: AS SHOWN VERT: NONE DATE: 09/30/10		PLAN NO. _____ SHEET C-16 OF _____

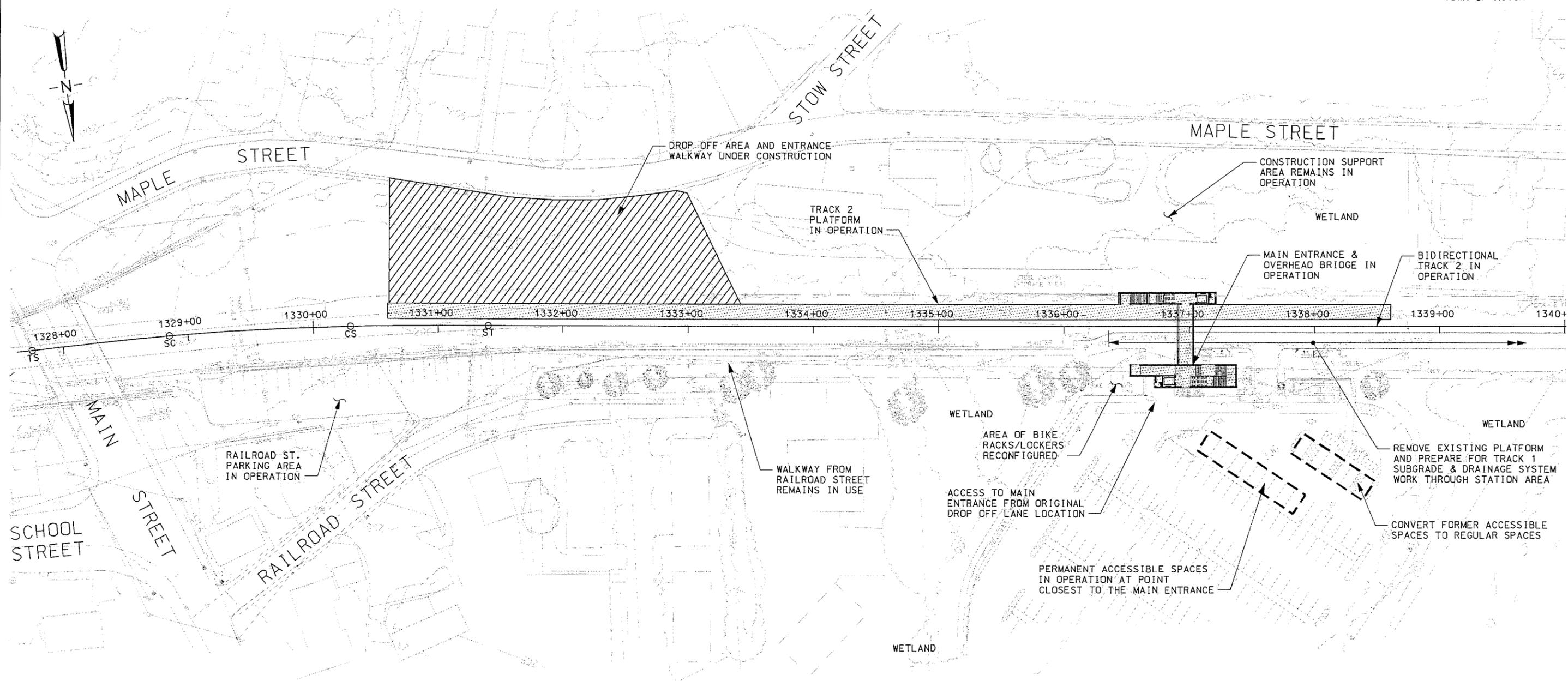
ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

JACOBS 343 CONGRESS STREET
 BOSTON, MA 02110
 (617) 242-9222

EAST TO BOSTON

WEST TO FITCHBURG

TOWN OF ACTON



PLAN - PHASE 3

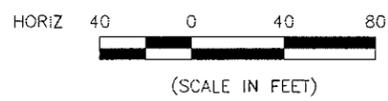
COMPLETE AND OPEN MAIN ENTRANCE TO NEW INBOUND PLATFORM VIA OVERHEAD BRIDGE, STAIRS, AND ELEVATORS. COMPLETE ACCESS FROM MAPLE STREET. (APPROX. DURATION 1/2 MONTH)

NOTES:

1. FOR CONSTRUCTION STAGING NOTES SEE SHEET C-14.
2. THERE IS NO PEDESTRIAN ACCESS FROM MAPLE STREET. STATION USERS MUST CROSS OVER THE MAIN STREET BRIDGE TO ACCESS THE EXISTING PLATFORM FROM RAILROAD STREET.
3. A MINIMUM OF 5 ACCESSIBLE SPACES SHALL REMAIN IN OPERATION AT ALL TIMES.

LEGEND:

 WORK UNDER CONSTRUCTION



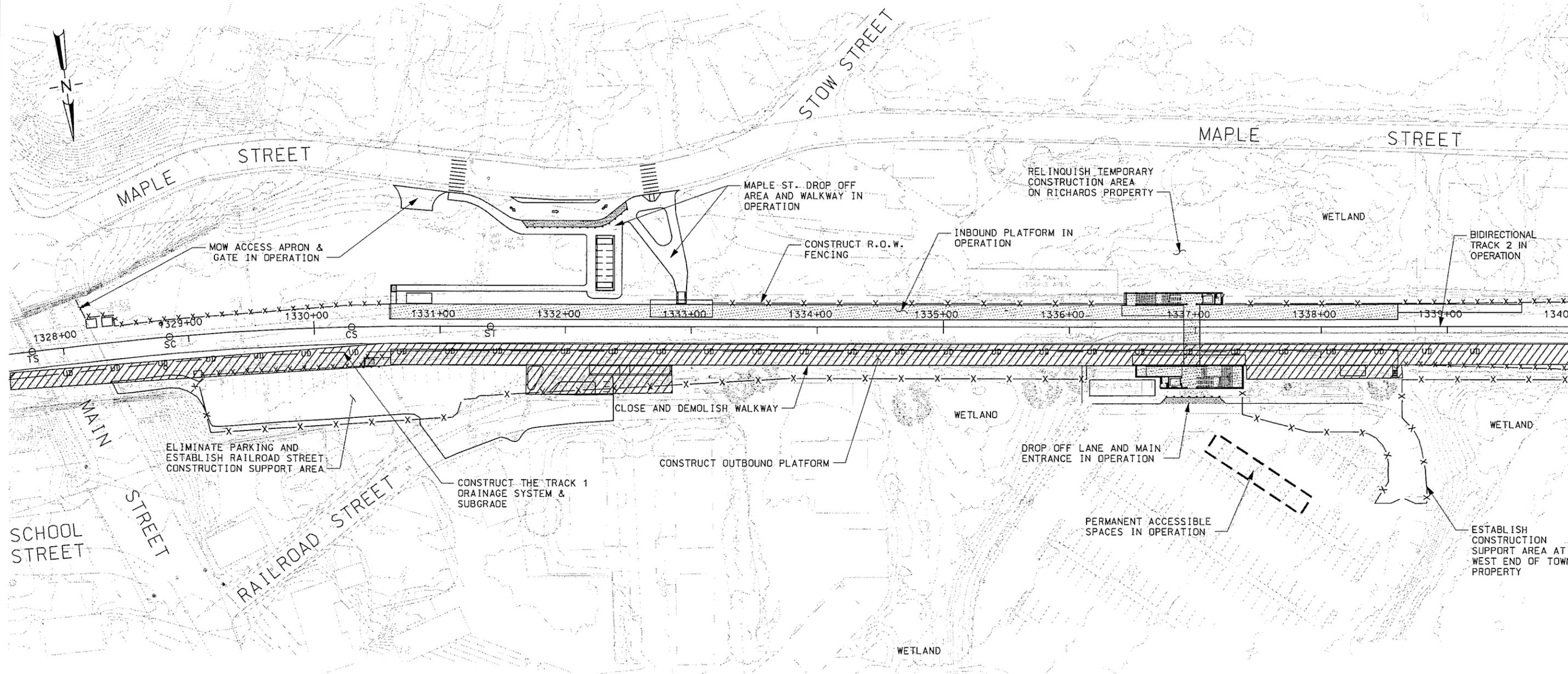
60% SUBMITTAL
NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION CONSTRUCTION STAGING PLAN PHASE 3	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ Date: _____ DIRECTOR OF OPERATIONS SUPPORT	
		PROJECT MANAGER: _____ Date: _____ HORIZ: AS SHOWN VERT: NONE DATE: 09/30/10	
		343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222	
PLAN NO. _____ SHEET C-17 OF _____		ISSUE _____	

FILE NAME: P:\MFTA\2008\EX237800\CAD\700CAD\702STATIONS\South Acton\Civil\60% Design\C-17 Const Staging Plan Phs3.dwg
 PLOT DATE: Sep 21, 2010 - 12:47pm

EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF ACTON



PLAN - PHASE 4

OPEN MAPLE ST. ENTRANCE. CLOSE RAILROAD STREET LOT AND CONNECTOR WALKWAY AND CONSTRUCT TRACK 1 SUBGRADE, OUTBOUND PLATFORM, WALKWAYS, AND RAMPS. (APPROX. DURATION 6 MONTHS)

NOTES:

- FOR CONSTRUCTION STAGING NOTES SEE SHEET C-14.
- THERE IS NO PEDESTRIAN ACCESS FROM RAILROAD STREET DURING THIS PHASE. STATION USERS MUST USE THE MAPLE ST. ENTRANCE OR THE PEDESTRIAN BRIDGE AT THE MAIN ENTRANCE VIA THE CENTRAL STREET PARKING LOT TO ACCESS THE NEW INBOUND PLATFORM.

LEGEND:

 WORK UNDER CONSTRUCTION

60% SUBMITTAL
NOT FOR CONSTRUCTION



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
FITCHBURG COMMUTER RAIL LINE
IMPROVEMENT PROJECT
CONTRACT NO. G67PS01

**SOUTH ACTON STATION
CONSTRUCTION STAGING PLAN
PHASE 4**



300 APOLLO DRIVE
CHELSEA, MA 01824
(978) 905-6000

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY: _____
DIRECTOR OF OPERATIONS SUPPORT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT MANAGER	DATE	DIRECTOR OF OPERATIONS SUPPORT	DATE

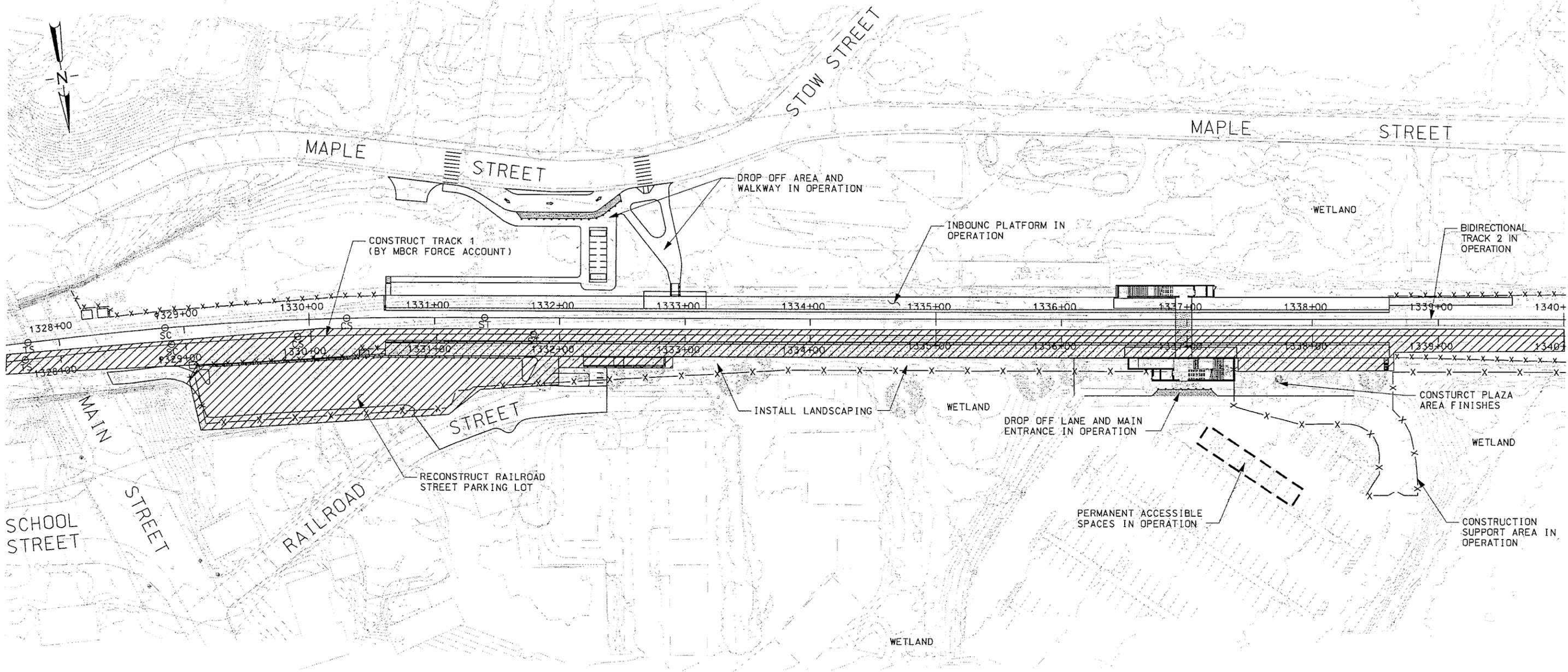
JACOBS 343 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222

HORIZ: AS SHOWN
VERT: NONE
DATE: 09/30/10
PLAN NO. _____
SHEET C-18 OF _____

FILE NAME: P:\MBTA\2008\EX237500\CAD\700CADD\702STATIONS\South Acton\Civil\60% Design\C-18 Const Staging Plan Phs4.dwg
PLOT DATE: Sep 21, 2010 - 12:50pm

EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF ACTON



PLAN - PHASE 5

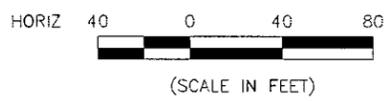
COMPLETE CONSTRUCTION OF RAILROAD STREET PARKING AREA, TRACK 1 CONSTRUCTION (BY MBCR FORCE ACCOUNT) & PERFORM ALL SYSTEMS TESTING. (APPROX. DURATION 1 MONTH)

NOTES:

- FOR CONSTRUCTION STAGING NOTES SEE SHEET C-14.
- PEDESTRIAN ACCESS IS AVAILABLE FROM MAPLE STREET AND THE MAIN PARKING LOT.

LEGEND:

 WORK UNDER CONSTRUCTION



60% SUBMITTAL
NOT FOR CONSTRUCTION

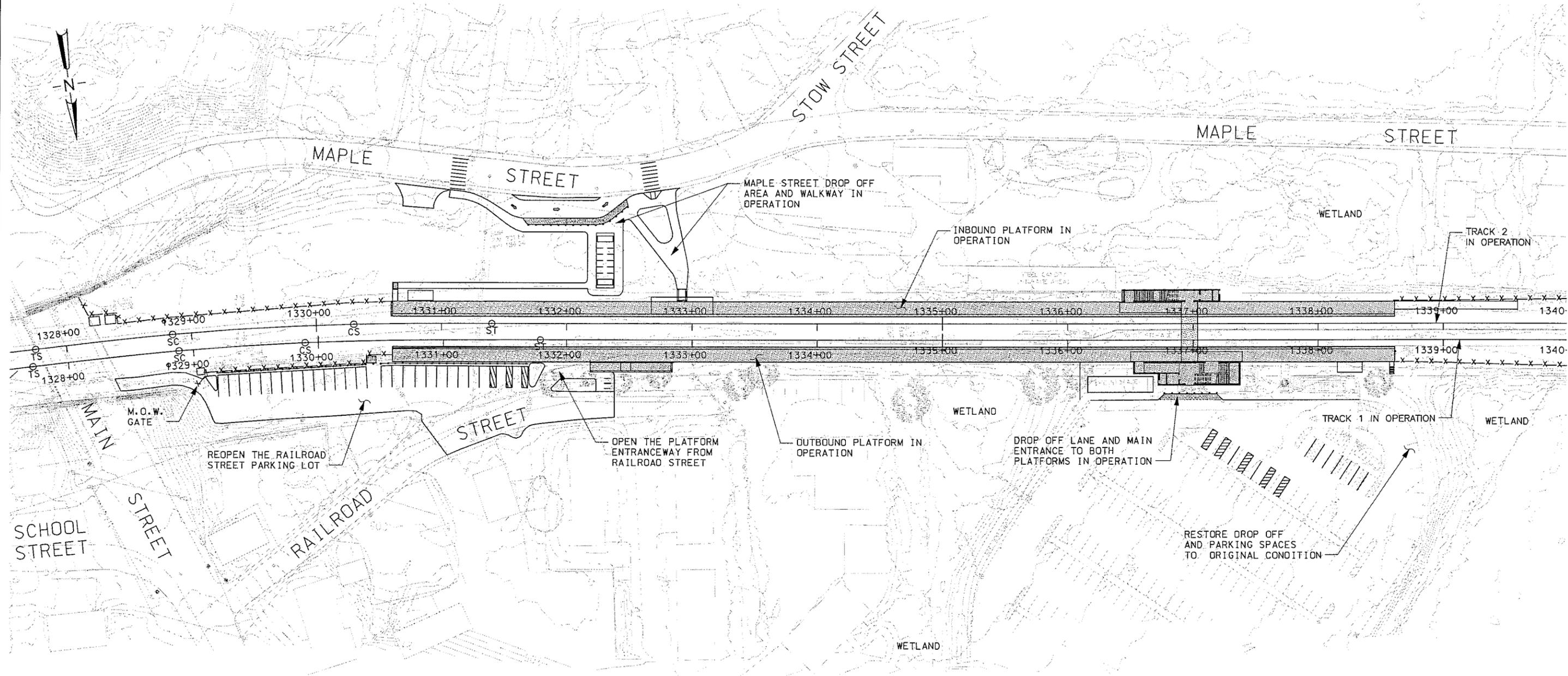
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
		FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION CONSTRUCTION STAGING PLAN PHASE 5	
		300 APOLLO DRIVE CHELSEA, MA 02110 (978) 905-6000	
APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
PROJECT MANAGER: _____ DATE: 09/30/10		HORIZ: AS SHOWN VERT: NONE DATE: 09/30/10	
DESIGNED BY: JPB CHECKED BY: KMB DATE: 09/30/10		DRAWN BY: KMB DATE: 09/30/10	
PROJECT NO. _____ SHEET C-19 OF _____		PLAN NO. _____ ISSUE _____	

JACOBS 343 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222

FILE NAME: P:\MIDIA\2008\EX237800\CAD\700CADD\702STATIONS\South Acton\Civil\60% Design\C-19 Const Staging Plan Ph5.dwg
PLOT DATE: Sep 21, 2010 9:00am

EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF ACTON



PLAN - PHASE 6

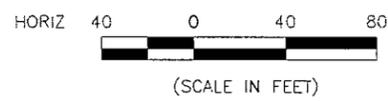
REMOVE ALL CONSTRUCTION RELATED MEASURES AND RESTORE ALL STAGING AND OTHER DISTURBED AREAS TO THEIR ORIGINAL CONDITION.
(APPROX. DURATION 1/2 MONTH)
(TOTAL CONSTRUCTION DURATION 18 MONTHS)

NOTES:

1. FOR CONSTRUCTION STAGING NOTES SEE SHEET C-14.

LEGEND:

 WORK UNDER CONSTRUCTION



60% SUBMITTAL
NOT FOR CONSTRUCTION

T	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
SOUTH ACTON STATION CONSTRUCTION STAGING PLAN PHASE 6		
HNTB	300 APOLLO DRIVE CHELSEA, MA 01824 (978) 900-4000	
	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
APPROVED BY:		Date:
PROJECT MANAGER		DIRECTOR OF OPERATIONS SUPPORT
HORIZ: AS SHOWN	DES. BY: JPB	CHK. BY: KMB XX
VERT: NONE	PLAN NO.	
DATE: 09/30/10	SHEET C-20 OF	

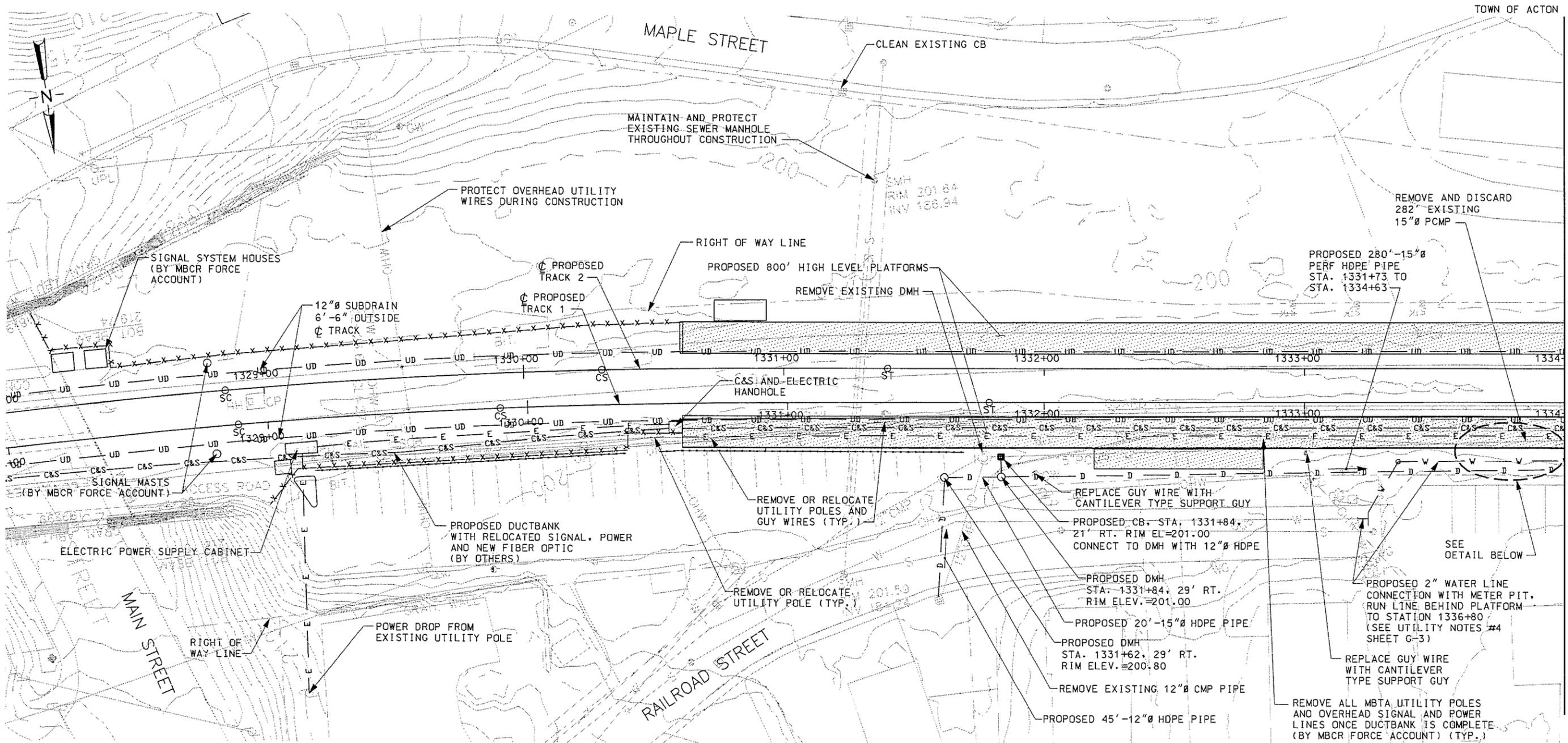
ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

JACOBS 343 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222

FILE NAME: P:\MFTA\2008\2237800\CAD\700CADD\702STATIONS\South Acton\Civil\60% Design\C-20 Const Staging Plan Phs6.dwg
PLOT DATE: Sep 21, 2010 - 9:00am

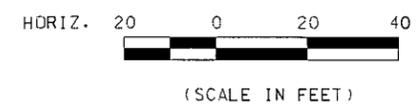
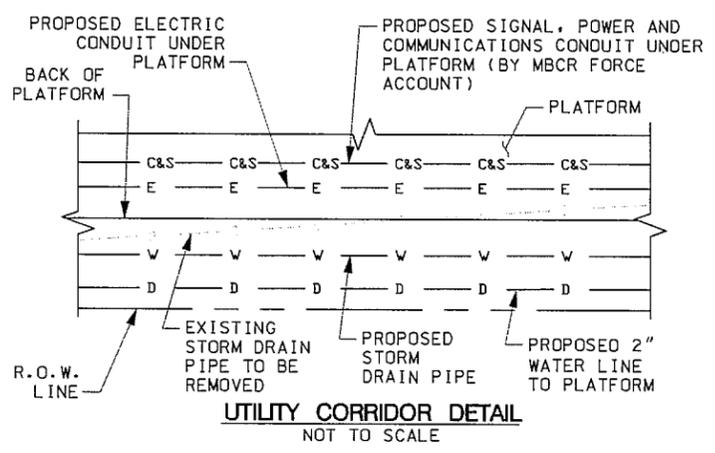
EAST TO BOSTON

WEST TO FITCHBURG TOWN OF ACTON



PROPOSED UTILITY PLAN

NOTES:
 1. FOR UTILITY NOTES SEE SHEET G-3.



60% SUBMITTAL
 NOT FOR CONSTRUCTION

MATCH LINE STA. 1334+00 SEE SHEET C-27

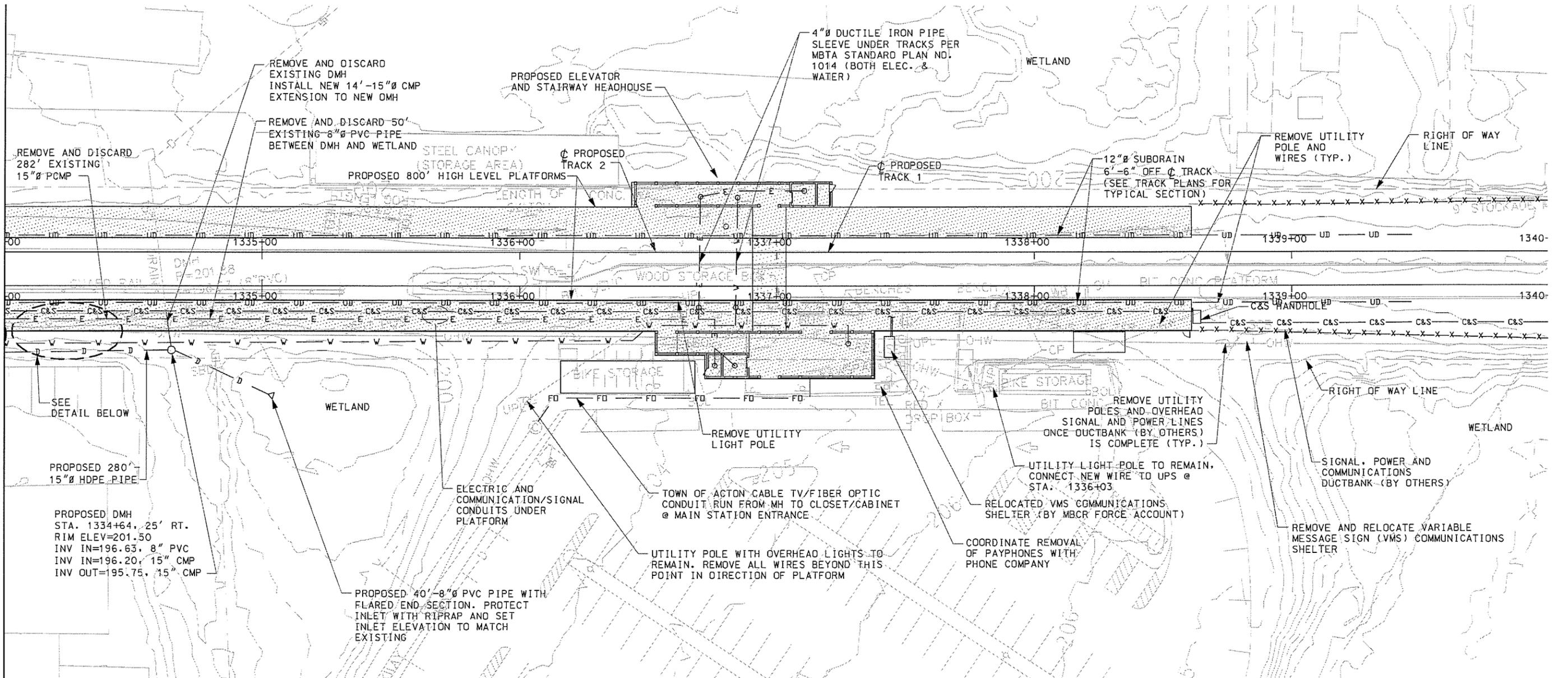
FILE NAME: P:\MFTA\2008\2X37800\CAD\700CAD\702STATIONS\South Acton\Civil\60% Design\C-26 & C-27 Utility Plans.dwg
 PLOT DATE: Sep 21, 2010 - 9:00am

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION UTILITY PLAN SHEET 1 OF 2	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
		DATE: 09/30/10	
		345 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222	
HORIZ: AS SHOWN VERT: NONE DATE: 09/30/10		PLAN NO. _____ SHEET C-26 OF _____	

EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF ACTON

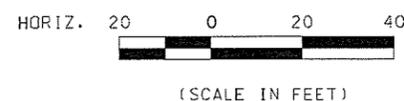
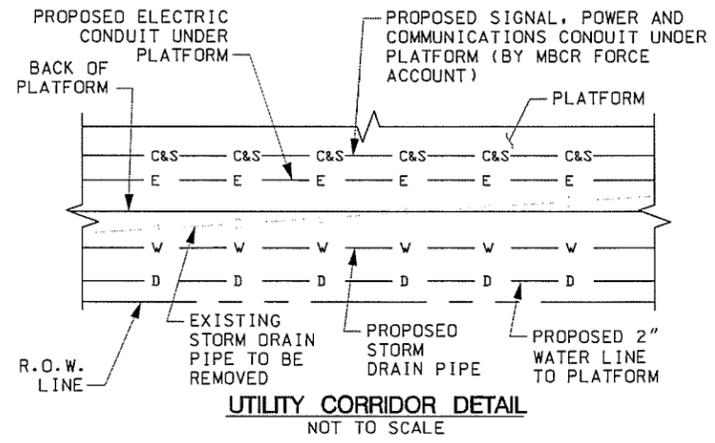
MATCH LINE STA. 1334+00 SEE SHEET C-26



PROPOSED UTILITY PLAN

NOTES:

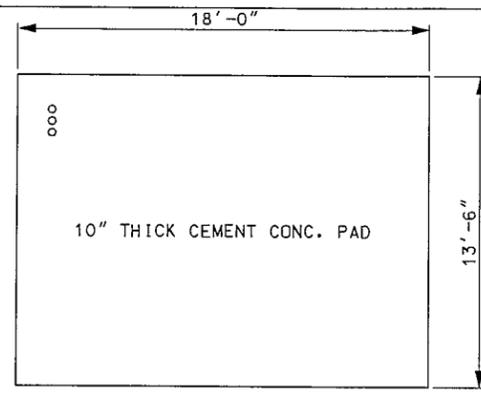
1. FOR UTILITY NOTES SEE SHEET C-3.



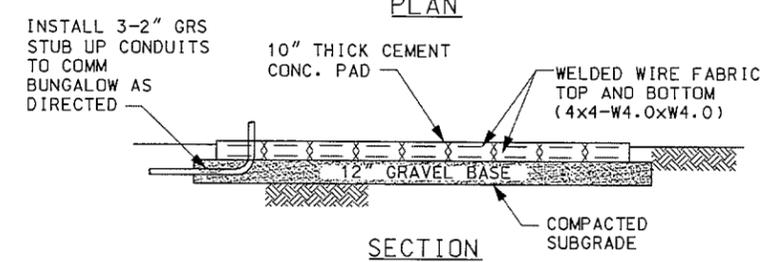
60% SUBMITTAL
NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
		FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION UTILITY PLAN SHEET 2 OF 2	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
PROJECT MANAGER HORIZ: AS SHOWN VERT: NONE DATE: 09/30/10		APPROVED BY: DIRECTOR OF OPERATIONS SUPPORT	
		DATE: 09/30/10	

FILE NAME: P:\MBTA\2009\2237800\CAD\700CADD\702STATIONS\South Acton\Civil\60% Design\C-26 & C-27 Utility Plans.dwg
 PLOT DATE: Sep 21, 2010 - 9:50am



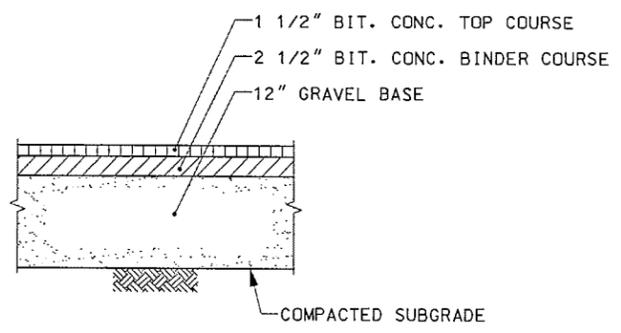
PLAN



SECTION

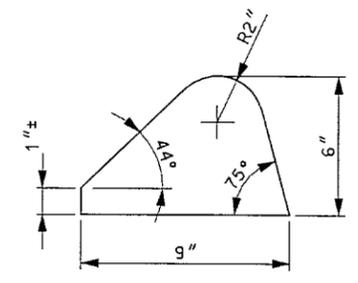
CONCRETE PAD FOR FUTURE FARE VENDING MACHINE (FVM)

N.T.S.



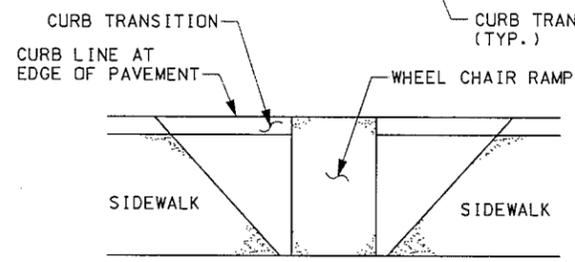
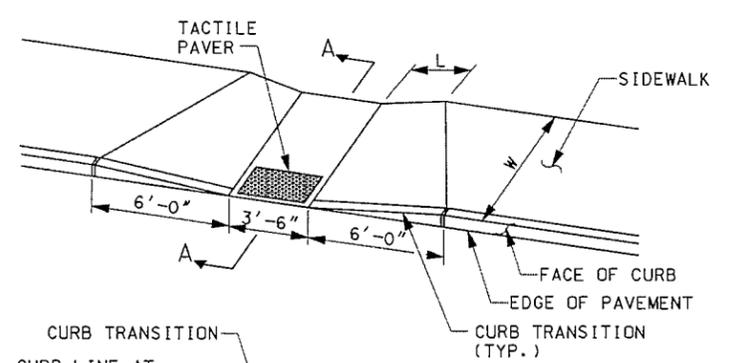
FULL DEPTH PAVEMENT DETAIL FOR PARKING LOTS AND WALKWAYS

N.T.S.

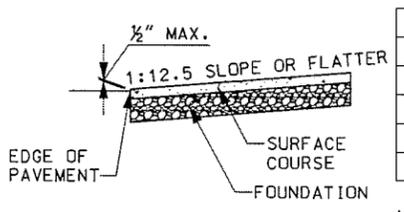


BITUMINOUS CONCRETE CURB - TYPE 2

N.T.S.



PLAN



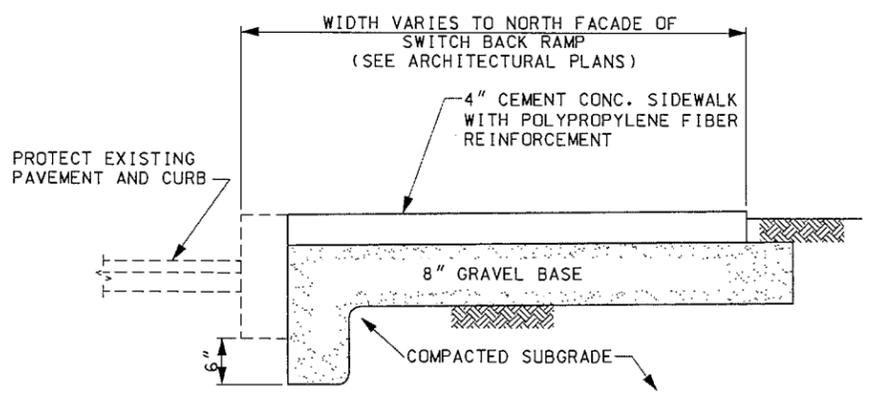
SECTION A-A

ACCESSIBLE RAMP DETAIL

N.T.S.

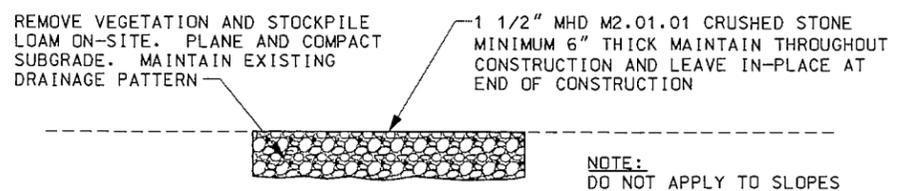
W	L	S.Y.
4'-0"	3'-6"±	5.2
5'-0"	2'-9"±	6.3
6'-0"	2'-0"±	7.2
7'-0"	1'-3"±	8.0
8'-0"	0'-0"	8.1

NOTE:
ALL RAMPS TO BE CONSTRUCTED PER THE LATEST AMERICANS WITH DISABILITIES ACT REQUIREMENTS



CONCRETE SIDEWALK AND DROP OFF AREA DETAIL

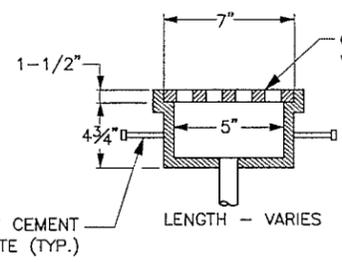
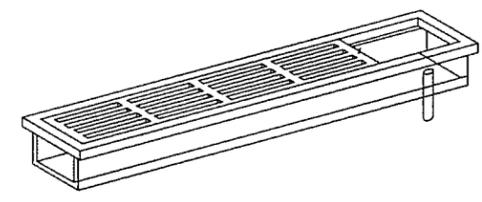
N.T.S.



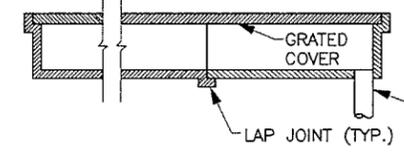
CRUSHED STONE MAT

N.T.S.

NOTE:
DO NOT APPLY TO SLOPES STEEPER THAN 6:1.



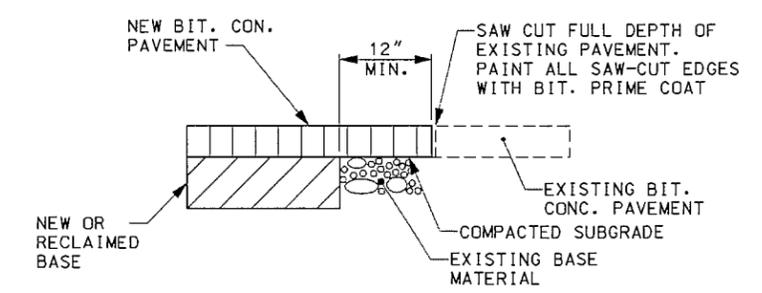
SECTIONS THROUGH DRAIN



SECTIONS THROUGH DRAIN

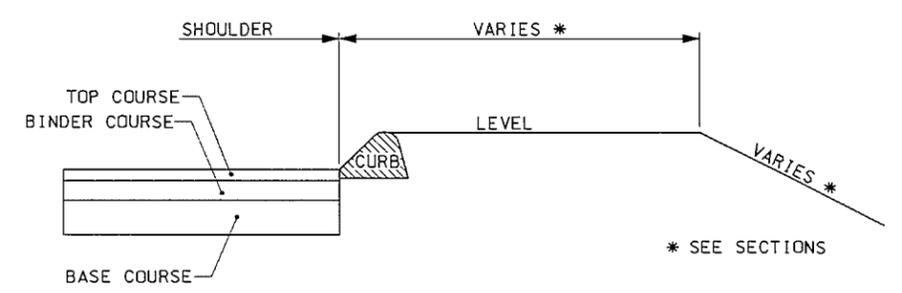
TRENCH DRAIN WITH GRATED COVER

NOT TO SCALE



PAVEMENT BUTT JOINT DETAIL

N.T.S.



METHOD OF SETTING CURB

N.T.S.

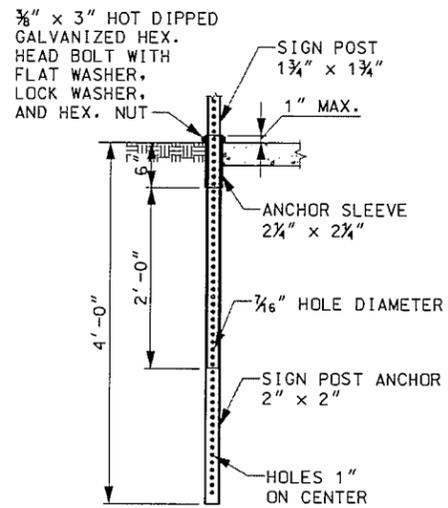
* SEE SECTIONS

60% SUBMITTAL
NOT FOR CONSTRUCTION

FILE NAME: P:\MFTA\2008\EX237800\CAD\700CAD\702STATIONS\South Acton\Civil\60% Design\C-31 Site Details Sheet 1 of 4.dwg
PLOT DATE: Sep 21, 2010 - 9:01am

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION SITE DETAILS SHEET 1 OF 4	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY:	
300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-1000		DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER		DATE	
HORIZ: N/A		PLAN NO.	
VERT: NONE		SHEET C-31 OF	
DATE: 09/30/10		ISSUE	
		343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222	

FILE NAME: P:\MFTA\2008\22X37800\CAD\700CADD\702STATIONS\South Acton\Civil\60% Design\C-32 Site Details Sheet 2 of 4.dwg
 PLOT DATE: Sep 21, 2010 - 9:01am



SIGN SIZE	TELESCOPIC POST SIZE
5 S.F. AND UNDER	1 - 1 3/4" x 1 3/4"
OVER 5 S.F. UP TO 10 S.F.	1 - 2" x 2"
OVER 10 S.F. UP TO 20 S.F.*	2 - 2" x 2"

* SIGNS WITH A WIDTH OF 4' AND OVER SHALL REQUIRE 2 POSTS

P-5 TELESCOPIC POST DETAIL
N.T.S.

P-5 POST GENERAL NOTES:

- BREAKAWAY SIGN SUPPORTS SHALL BE FABRICATED FROM STEEL AND SHALL CONFORM TO MASSACHUSETTS DEPT. OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, AND STANDARD DRAWINGS FOR SIGNS AND SUPPORTS (CURRENT EDITIONS).
- THE STEEL POSTS SHALL CONFORM TO ASTM-A366. THE CROSS SECTION OF THE POST SHALL BE SQUARE TUBE FORMED OF 12 GAUGE (.105" U.S.S. GRADE) COLD-ROLLED CARBON STEEL SHEETS WHICH HAVE BEEN ZINC COATED (1.25 oz.) CONFORMING TO ASTM-A525, CAREFULLY ROLLED TO SIZE AND WELDED DIRECTLY IN THE CORNER BY HIGH FREQUENCY RESISTANCE WELDING OR EQUAL AND EXTERNALLY SCARFED TO AGREE WITH CORNER RADIUS. STANDARD OUTSIDE CORNER RADIUS SHALL BE 5/32" ± 1/64". ALL BOLTS SHALL CONFORM TO ASTM-A307, CLASS A. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS PER ASTM-A153.

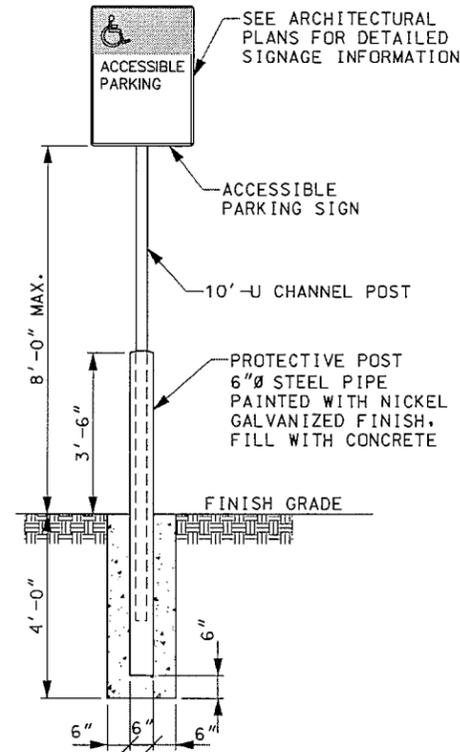
METHOD OF INSTALLATION:

(CONCRETE, BITUMINOUS CONCRETE, OR GROUND SURFACES)

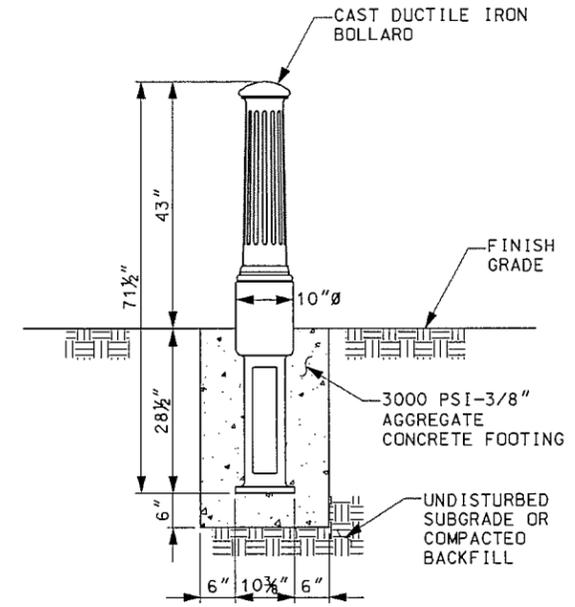
- SIGN POST ANCHOR CAN BE DRIVEN THROUGH BLACK TOP SURFACES WITHOUT FIRST MAKING A HOLE. HOWEVER, IN CONCRETE, BREAKING A HOLE WILL BE NECESSARY. DRIVE SIGN POST ANCHOR TO WITHIN THREE OR FOUR INCHES OF SURFACE.
- PRE-CUT ANCHOR SLEEVE SO THAT THE HOLES WILL MATCH AND STILL BE FLUSH WITH TOP OF SIGN POST ANCHOR. DRIVE ANCHOR SLEEVE UNTIL HOLES MATCH AS NOTED ABOVE, THEN DRIVE BOTH THE SIGN POST ANCHOR AND ANCHOR SLEEVE UNTIL ONE HOLE IS EXPOSED ABOVE GROUND FOR BOLT CONNECTION.

3. INSERT SIGN POST AND BOLT IN PLACE.

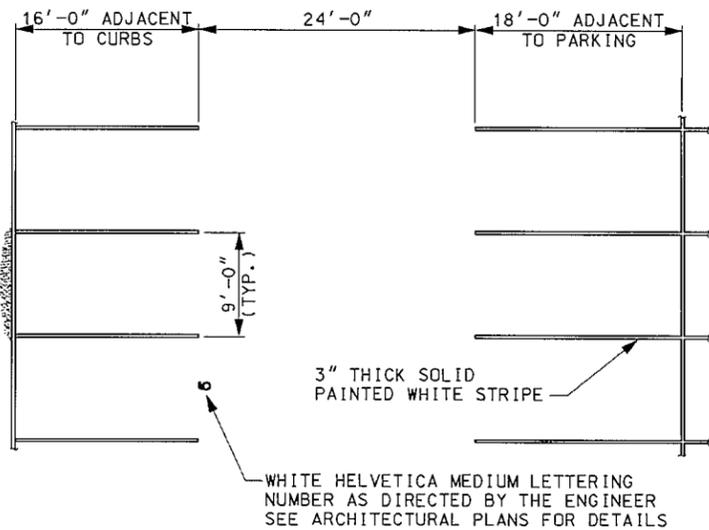
NOTE: DRIVING CAPS MUST BE USED TO DRIVE POSTS.



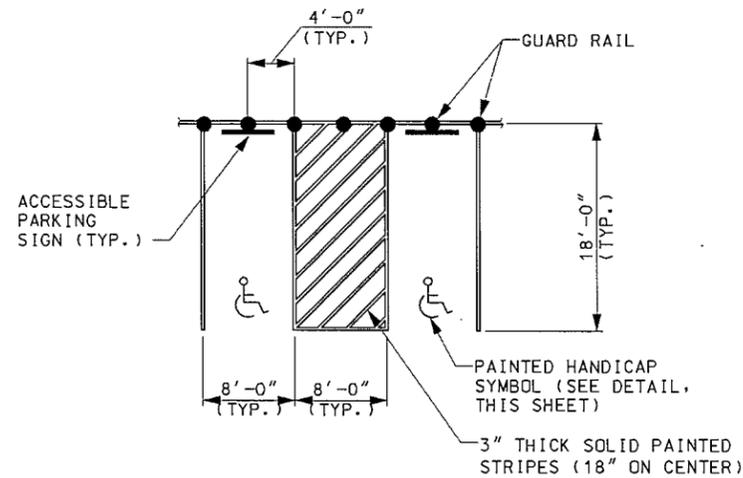
TYPICAL CHANNEL MOUNTING FOR ACCESSIBLE SIGNS



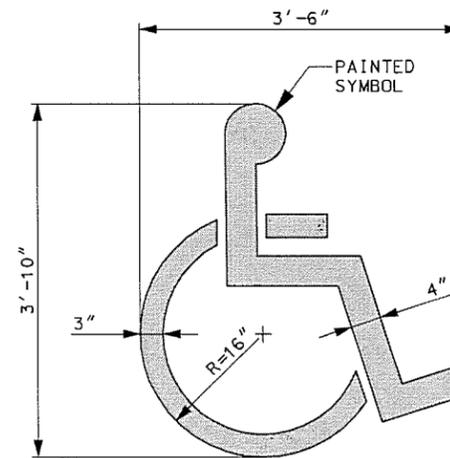
BOLLARD DETAIL
N.T.S.



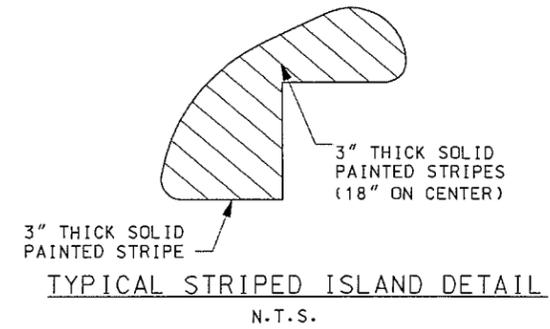
TYPICAL PARKING DETAIL
N.T.S.



TYPICAL HANDICAP VAN PARKING STALL DETAIL
N.T.S.



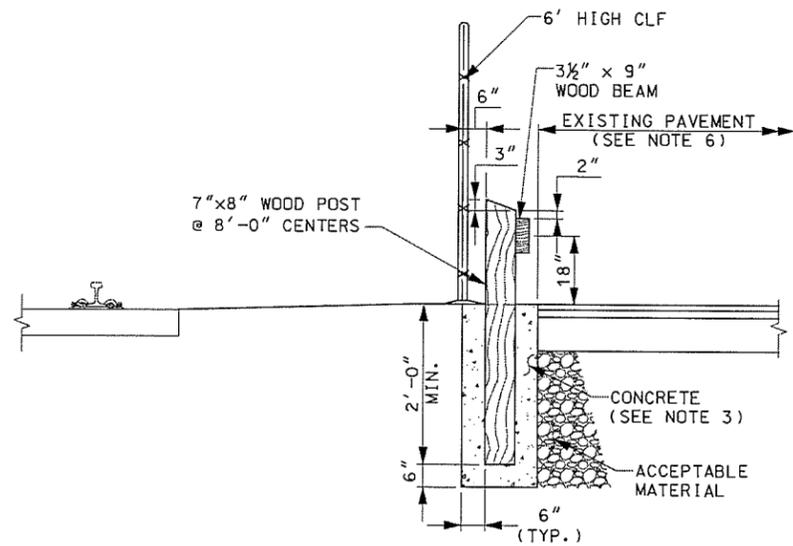
PAINTED ACCESSIBLE SYMBOL DETAIL
N.T.S.



TYPICAL STRIPED ISLAND DETAIL
N.T.S.

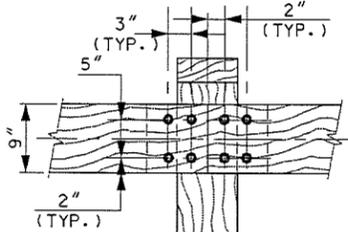
60% SUBMITTAL
NOT FOR CONSTRUCTION

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01		SOUTH ACTON STATION SITE DETAILS SHEET 2 OF 4	
		HNTB 300 APOLLO DRIVE CHELSEA, MA 02124 (978) 905-4000	
PROJECT MANAGER DATE		DIRECTOR OF OPERATIONS SUPPORT DATE	
HORIZ: N/A VERT: NONE DATE: 09/30/10		PLAN NO. SHEET C-32 OF	



CONTRACTOR SHALL BEND BACK-UP PLATE AND LEVEL FACE OF WOOD POST TO FIT CURVATURE OF ROADWAY

3/4" Ø ROUND HEAD BOLTS WITH HEX NUTS AND ROUND WASHERS. BOLT LENGTH AS REQUIRED (TYP.)



ELEVATION

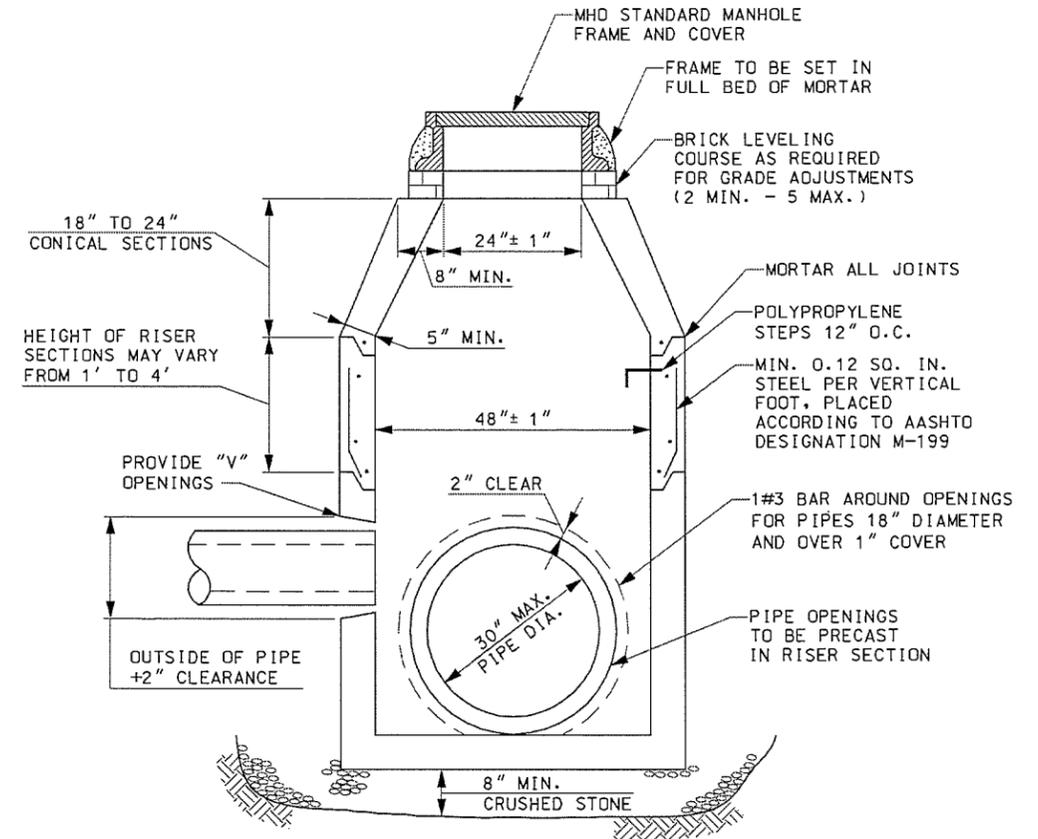
NOTES:

1. BACKUP PLATE, BOLTS, NUTS, & WASHERS TO BE GALVANIZED.
2. WOOD POSTS AND BEAMS SHALL BE STANDARD ROUGH SAWN AND TO THE SIZE AND LENGTHS SHOWN. POST AND RAILS SHALL BE SOUTHERN YELLOW PINE. ALL WOOD SHALL BE PRESSURE-TREATED WITH PENTACHLOROPHENOL WITH A MINIMUM RETENTION OF 0.60 POUNDS PER CU. FT. OF WOOD OR TREATED IN ACCORDANCE WITH AWDA SPECIFICATION C2.
3. POSTS SHALL BE SET IN 2500 P.S.I. BACKFILL CONCRETE.
4. CONTRACTOR SHALL COORDINATE GUARDRAIL INSTALLATION WITH ENGINEER TO MAINTAIN SUFFICIENT COMMUTER PARKING AT ALL TIMES.
5. SEE SITE PLANS FOR GUARDRAIL LIMITS.
6. CONTRACTOR TO PROTECT EXISTING PAVEMENT DURING INSTALLATION.

PLACEMENT

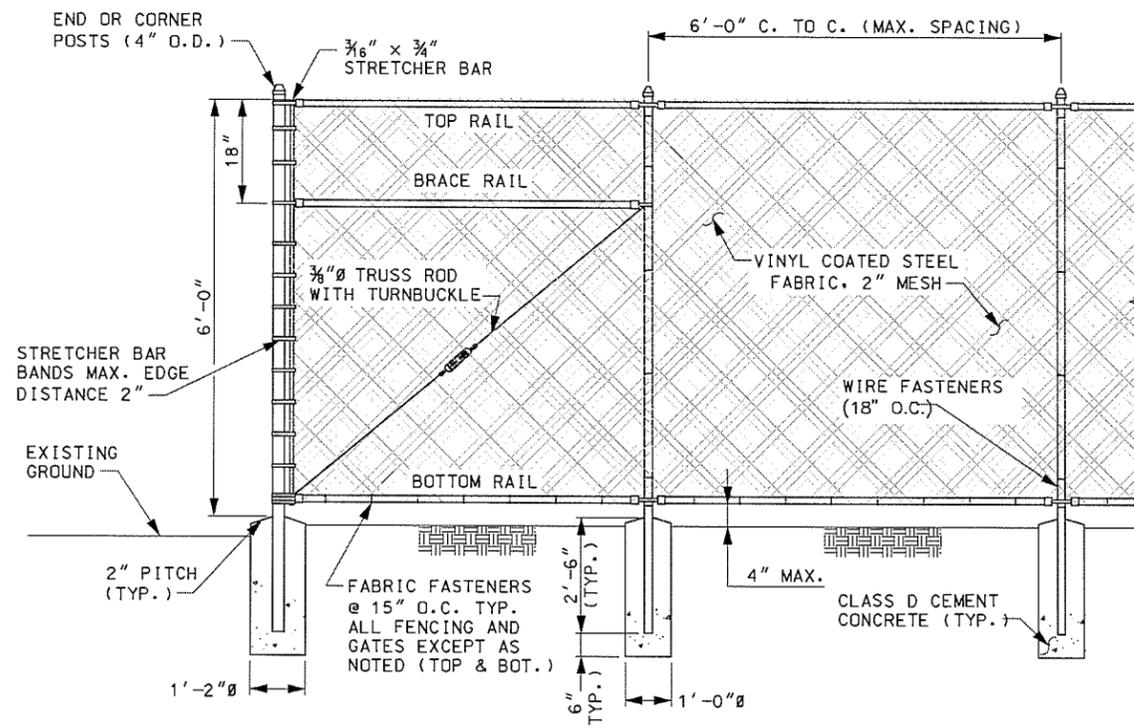
WOOD GUARDRAIL

N.T.S.



PRECAST CONCRETE DRAIN MANHOLE

9 FEET OR LESS IN DEPTH
N.T.S.

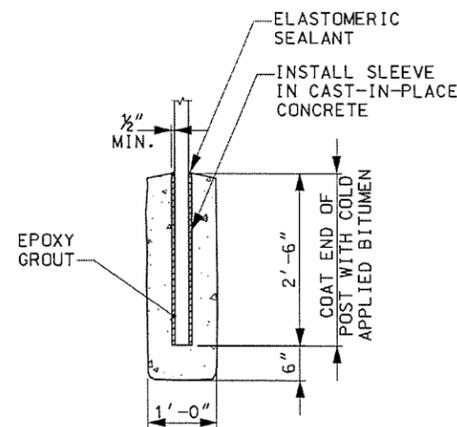


TYPICAL END, CORNER OR BRACE PANEL

TYPICAL INTERMEDIATE PANEL

6' HIGH CHAIN LINK FENCE DETAIL

N.T.S.



FENCE POST ANCHORED IN CONCRETE

N.T.S.

60% SUBMITTAL
NOT FOR CONSTRUCTION



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
FITCHBURG COMMUTER RAIL LINE
IMPROVEMENT PROJECT
CONTRACT NO. G67PS01

SOUTH ACTION STATION
SITE DETAILS
SHEET 3 OF 4



300 APOLLO DRIVE
CHELSEA, MA 02124
(978) 905-4000

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

DIRECTOR OF OPERATIONS SUPPORT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT MANAGER	DATE	DIRECTOR OF OPERATIONS SUPPORT	DATE

JACOBS 343 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222

HORIZ: N/A

VERT: NONE

DATE: 09/30/10

RES. BY: JGA

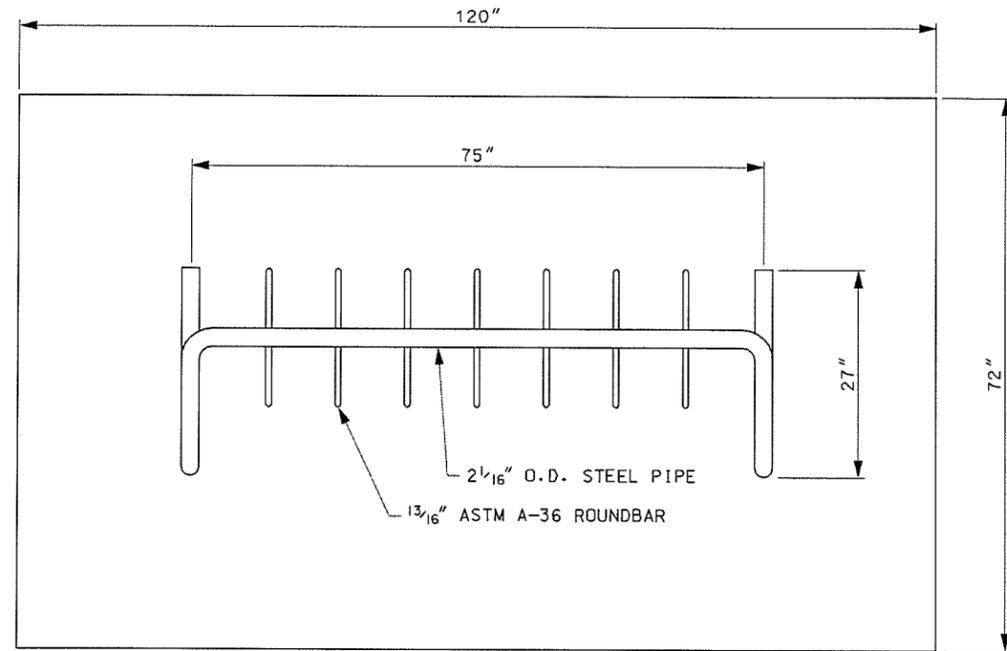
DR. BY: CWB

CHK. BY: JPB

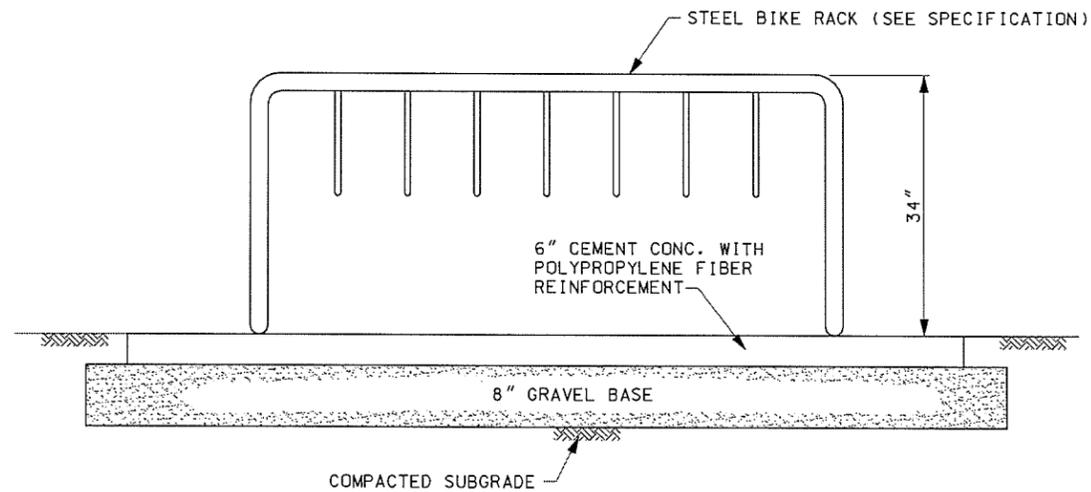
PLAN NO.

ISSUE

SHEET C-33 OF

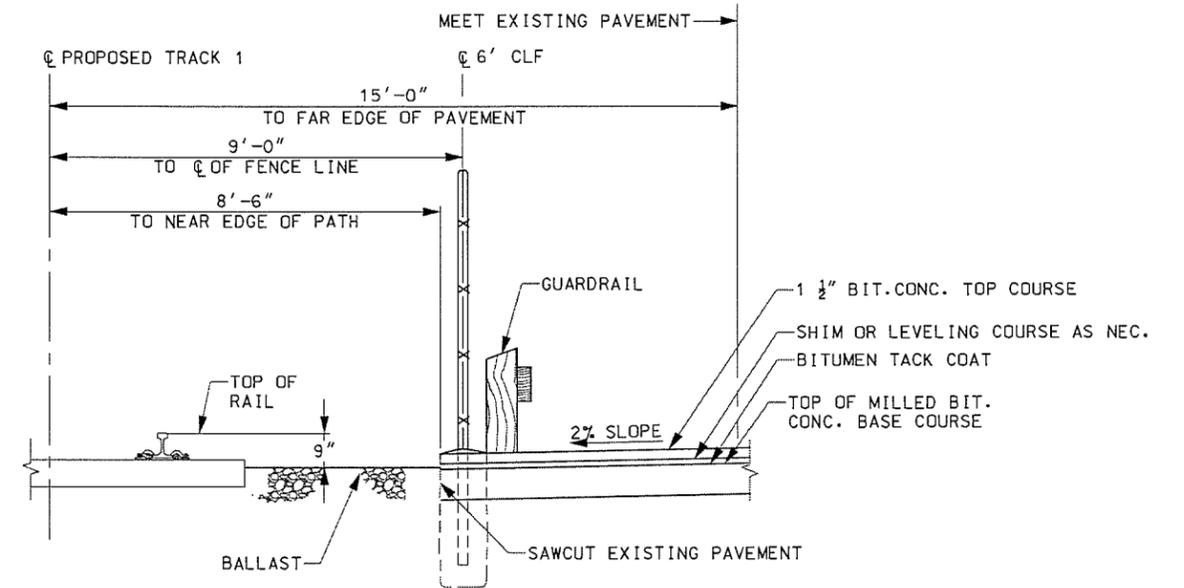


PLAN



SECTION

STEEL BIKE RACK
N.T.S.



TYPICAL SECTION AT RAILROAD STREET LOT

N.T.S.

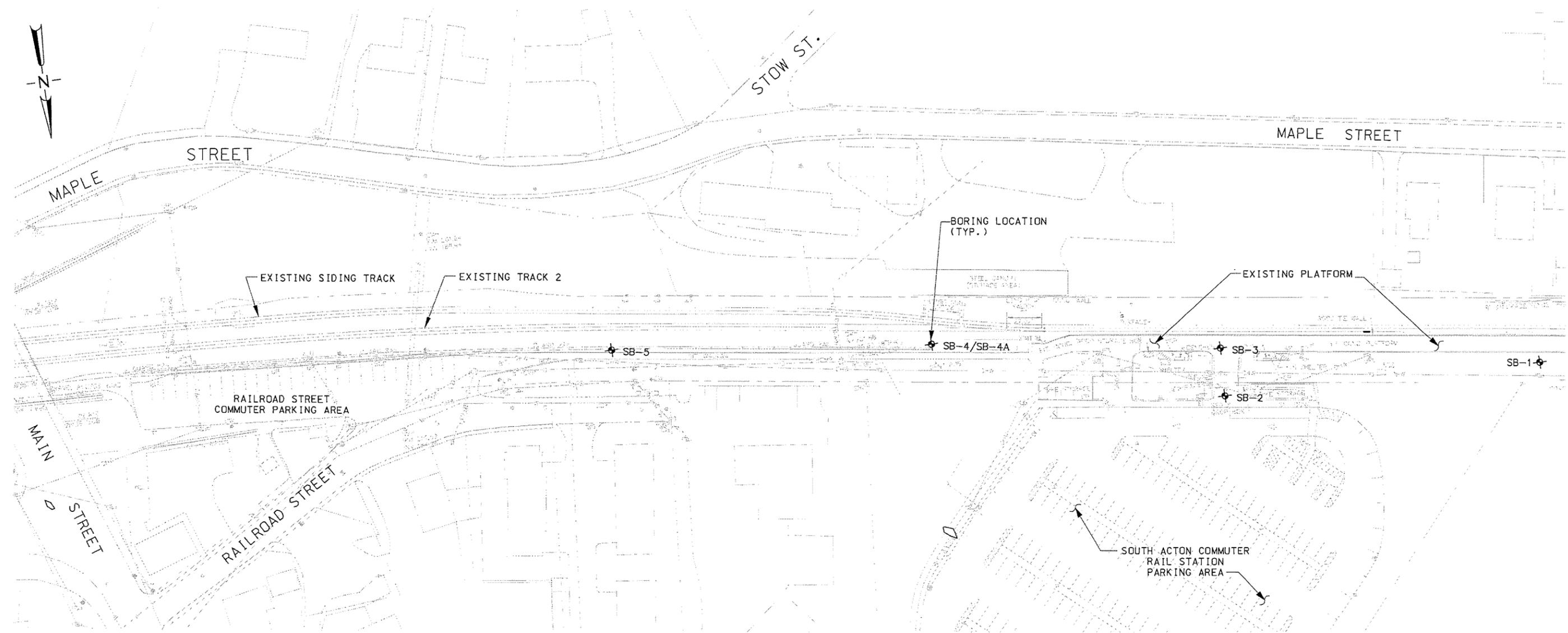
FILE NAME: P:\MBTA\2008\EX237800\CAD\700CADD\702STATIONS\South Acton\Civil\60% Design\C-34 Site Details Sheet 4 of 4.dwg
 PLOT DATE: Sep 21, 2010 - 9:01am

60% SUBMITTAL
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		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION SITE DETAILS SHEET 4 OF 4	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
		DATE: 09/30/10	
JACOBS 343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		PROJECT MANAGER: _____ DES. BY: JGA DR. BY: CWB CHK. BY: JPB HORIZ: N/A VERT: NONE DATE: 09/30/10	
PLAN NO. _____ SHEET C-34 OF _____		ISSUE _____ 	

EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF ACTON



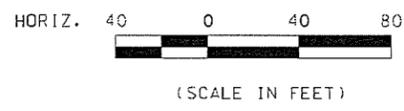
BORING LOCATION PLAN

NOTES:

- 1. FOR SPECIFIC BORING DATA SEE SHEET GT-2.
- 2. THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OR HER OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGES THERETO.

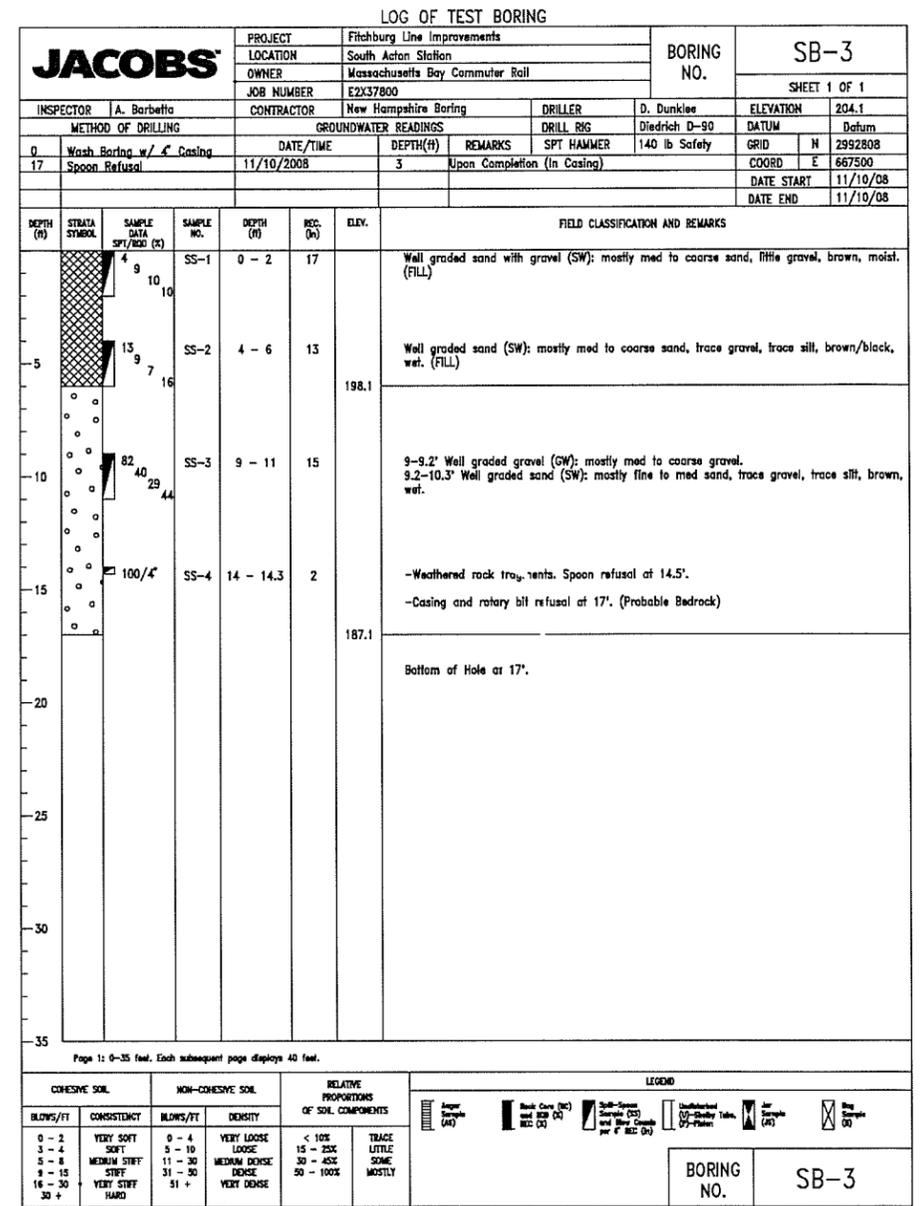
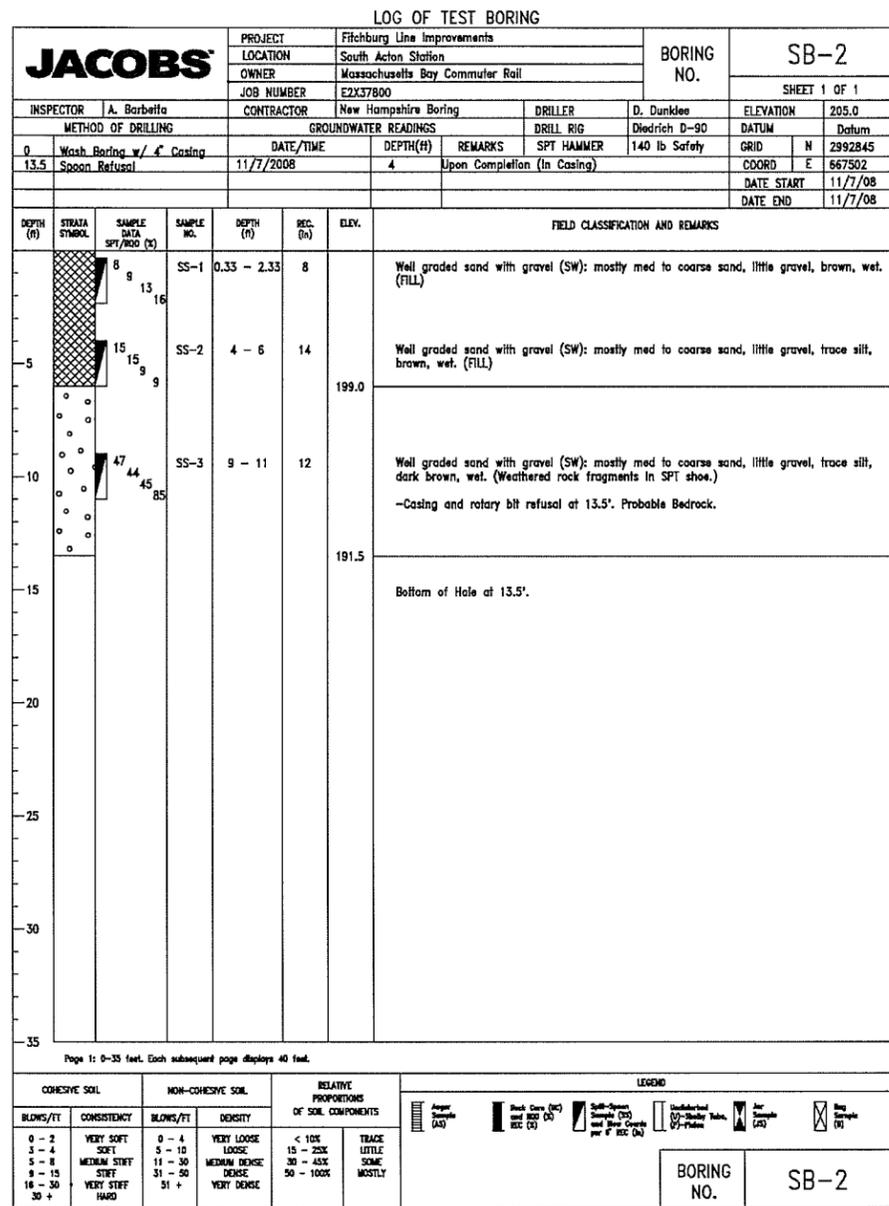
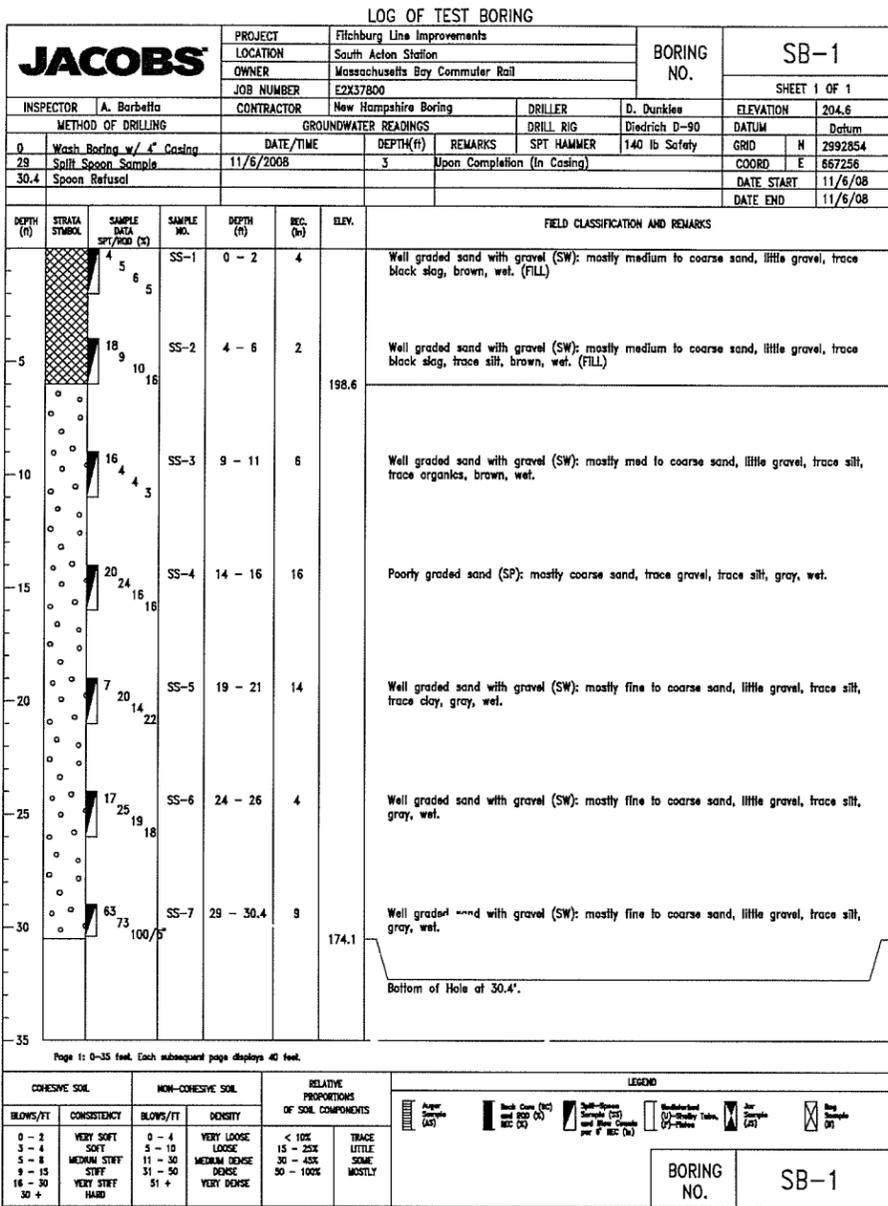
FILE NAME: P:\MBTA\2009\E2\37600\CAD\700CADD\702STATIONS\South Acton\Geotech\GT-1 Boring Location Plan.dwg
PLOT DATE: Sep 21, 2010 - 9:01am

60% SUBMITTAL
NOT FOR CONSTRUCTION



T		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
		FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
HNTB 300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-6000		SOUTH ACTON STATION BORING LOCATION PLAN	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
APPROVED BY:		DATE:	
PROJECT MANAGER		DATE	
HORIZ: 1" = 40'		DES. BY: AMB	CHK. BY: JAJ
VERT: NONE		DATE: 09/30/10	
DATE: 09/30/10		SHEET GT-1 OF	

JACOBS 343 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222



NOTES:

- BORINGS WERE DRILLED BY NEW HAMPSHIRE BORING INC. IN NOVEMBER 2008.
- INFORMATION ON EACH BORING LOG IS A COMPILATION OF SUBSURFACE CONDITIONS AND SOIL CLASSIFICATIONS OBTAINED FROM SAMPLES RECOVERED DURING THE FIELD EXPLORATION PROGRAM. SOIL LAYERS HAVE BEEN INTERPRETED BY COMMONLY ACCEPTED GEOTECHNICAL PROCEDURES.
- REFER TO BORING LOCATION PLAN FOR LOCATIONS OF BORINGS.
- GROUND SURFACE ELEVATIONS AND LOCATIONS OF BORINGS WERE SURVEYED BY ASEC CORPORATION. ALL VERTICAL CONTROL AND ELEVATIONS ARE BASED ON N.A.V.D. 88.
- GROUNDWATER LEVELS WERE MEASURED IN THE TEST BORINGS USING A WEIGHTED TAPE AT THE COMPLETION OF DRILLING. THE DATA INDICATED THAT GROUNDWATER LEVELS RANGED FROM APPROXIMATE EL. 201.5 FT TO 198.0 FT. WATER LEVELS RECORDED DURING DRILLING OR AFTER COMPLETION OF THE BORING SHOULD BE CONSIDERED APPROXIMATE AND REFER ONLY TO THE TIMES AND PLACES INDICATED. WATER LEVELS MAY VARY WITH THE CHANGE IN SEASONAL CONDITIONS OR CONSTRUCTION ACTIVITY.
- THE STANDARD PENETRATION TEST WAS PERFORMED BY DRIVING A 2.0-INCH OUTSIDE DIAMETER, 1.375-INCH INSIDE DIAMETER SPLIT BARREL SAMPLER INTO UNDISTURBED SOIL BY MEANS OF A 140-POUND WEIGHT FALLING FREELY THROUGH A VERTICAL DISTANCE OF 30 INCHES. THE SAMPLER IS NORMALLY DRIVEN THREE OR FOUR SUCCESSIVE 6-INCH INCREMENTS. THE NUMBER OF BLOWS FOR EACH 6-INCH INCREMENT IS NOTED. THE PENETRATION IS NOTED WHENEVER THE PENETRATION INCREMENT VARIES FROM THE STANDARD 6-INCH INCREMENT. THE TOTAL NUMBER OF BLOWS REQUIRED FOR THE FINAL OR MIDDLE 12 INCHES OF PENETRATION IS THE STANDARD PENETRATION RESISTANCE (N) (ASTM D1586).
- THE SUBSURFACE INFORMATION SHOWN ON THIS DRAWING WAS OBTAINED FOR DESIGN PURPOSES AND MAY NOT BE AN ADEQUATE REPRESENTATION OF ACTUAL CONDITIONS FOR PROJECT CONSTRUCTION. INFORMATION SHOWN, INCLUDING WATER LEVELS, REPRESENTS EXISTING CONDITIONS AT THE SPECIFIC BORING LOCATIONS AT THE TIME THE BORINGS WERE MADE. ALL RISKS RESULTING FROM USE OR INTERPRETATION OF THE SUBSURFACE DATA SHOWN SHALL BE BORNE BY THE CONTRACTOR.
- SEE SHEET GT-3 FOR BORING LOGS SHEET 2 OF 2.

60% SUBMITTAL
NOT FOR CONSTRUCTION

T		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
SOUTH ACTON STATION BORING LOGS SHEET 1 OF 2		HNTB 300 APOLLO DRIVE CHELSEA, MA 02134 (978) 905-6000	
APPROVED BY:		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
PROJECT MANAGER		DATE	
HORIZ: NONE		DIR. BY: JAJ	
VERT: NONE		CHK. BY: AMB	
DATE: 09/30/10		SHEET GT-2 OF	

FILE NAME: P:\METR\2008\E2X37800\CAD\700CAD\702STATIONS\South Acton\Geotech\GT-3 Boring Logs.dwg
 PLOT DATE: Sep 21, 2010 9:01am

LOG OF TEST BORING

JACOBS		PROJECT	Fitchburg Line Improvements	BORING NO.	SB-4			
INSPECTOR		A. Barbetta	CONTRACTOR	New Hampshire Boring	DRILLER	D. Dunklee	ELEVATION	201.5
METHOD OF DRILLING		Wash Boring w/ 4" Casing	DATE/TIME	11/6/2008	DEPTH(ft)	3.5	REMARKS	Upon Completion (In Casing)
GROUNDWATER READINGS		DRILL RIG		Diedrich D-90	DATUM	Datum	GRID	N 2992773
OWNER		Massachusetts Bay Commuter Rail	JOB NUMBER		E2X37800	COORD		E 667722
DATE START		11/6/08	DATE END		11/6/08	SHEET 1 OF 1		

DEPTH (ft)	STRATA SYMBOL	SAMPLE DATA SPT/ROD (%)	SAMPLE NO.	DEPTH (ft)	REC. (ft)	ELEV.	FIELD CLASSIFICATION AND REMARKS
0 - 5		15, 14, 13, 12	SS-1	4 - 6	14	197.5	Well graded sand with gravel (SW): mostly med to coarse sand, little gravel, brown, moist.
5 - 10		12, 17, 22, 31	SS-2	9 - 11	18		Well graded sand with gravel (SW): mostly med to coarse sand, little gravel, trace silt, wet.
10 - 14							- Rollerbit refusal at 14'. Relocated to SB-4A.
14 - 15						187.5	Bottom of Hole at 14'.

COHESIVE SOIL		NON-COHESIVE SOIL		RELATIVE PROPORTIONS OF SOIL COMPONENTS		LEGEND	
BLOWS/FT	CONSISTENCY	BLOWS/FT	DENSITY	< 10%	TRACE	Angular Gravel (A5)	Block Core (BC) and RQD (RQD)
0 - 2	VERY SOFT	0 - 4	VERY LOOSE	15 - 25%	LITTLE	Split-Spoon Sample (SS) and Shear Core per # REC (R)	Undisturbed (U) - Shelby Tube (ST)
3 - 4	SOFT	5 - 10	LOOSE	30 - 45%	SOME	Air Sample (AS)	Soil Sample (S)
5 - 8	MEDIUM STIFF	11 - 30	MEDIUM DENSE	50 - 100%	MOSTLY		
9 - 15	STIFF	31 - 50	DENSE				
16 - 30	VERY STIFF	51 +	VERY DENSE				
30 +	HARD						

LOG OF TEST BORING

JACOBS		PROJECT	Fitchburg Line Improvements	BORING NO.	SB-4A			
INSPECTOR		A. Barbetta	CONTRACTOR	New Hampshire Boring	DRILLER	D. Dunklee	ELEVATION	201.5
METHOD OF DRILLING		Wash Boring w/ 4" Casing	DATE/TIME	11/6/2008	DEPTH(ft)	3.5	REMARKS	Upon Completion (In Casing)
GROUNDWATER READINGS		DRILL RIG		Diedrich D-90	DATUM	Datum	GRID	N 2992773
OWNER		Massachusetts Bay Commuter Rail	JOB NUMBER		E2X37800	COORD		E 667723
DATE START		11/6/08	DATE END		11/6/08	SHEET 1 OF 1		

DEPTH (ft)	STRATA SYMBOL	SAMPLE DATA SPT/ROD (%)	SAMPLE NO.	DEPTH (ft)	REC. (ft)	ELEV.	FIELD CLASSIFICATION AND REMARKS
0 - 5						197.5	
5 - 10							
10 - 15							
15 - 16						185.5	Well graded sand with gravel (SW): mostly fine to med sand, little gravel, trace silt, gray, wet. (Rock fragments in shoe.)
16 - 21						180.5	Light gray GNEISS, coarse grained, hard, quartz intrusion, highly fractured, sediment in seams, moderate weathering, close joints, poor-fair condition.
21 - 35							Bottom of Hole at 21'.

COHESIVE SOIL		NON-COHESIVE SOIL		RELATIVE PROPORTIONS OF SOIL COMPONENTS		LEGEND	
BLOWS/FT	CONSISTENCY	BLOWS/FT	DENSITY	< 10%	TRACE	Angular Gravel (A5)	Block Core (BC) and RQD (RQD)
0 - 2	VERY SOFT	0 - 4	VERY LOOSE	15 - 25%	LITTLE	Split-Spoon Sample (SS) and Shear Core per # REC (R)	Undisturbed (U) - Shelby Tube (ST)
3 - 4	SOFT	5 - 10	LOOSE	30 - 45%	SOME	Air Sample (AS)	Soil Sample (S)
5 - 8	MEDIUM STIFF	11 - 30	MEDIUM DENSE	50 - 100%	MOSTLY		
9 - 15	STIFF	31 - 50	DENSE				
16 - 30	VERY STIFF	51 +	VERY DENSE				
30 +	HARD						

LOG OF TEST BORING

JACOBS		PROJECT	Fitchburg Line Improvements	BORING NO.	SB-5			
INSPECTOR		A. Barbetta	CONTRACTOR	New Hampshire Boring	DRILLER	D. Dunklee	ELEVATION	201.4
METHOD OF DRILLING		Wash Boring w/ 4" Casing	DATE/TIME	11/7/2008	DEPTH(ft)	3.5	REMARKS	Upon Completion (In Casing)
GROUNDWATER READINGS		DRILL RIG		Diedrich D-90	DATUM	Datum	GRID	N 2992743
OWNER		Massachusetts Bay Commuter Rail	JOB NUMBER		E2X37800	COORD		E 667969
DATE START		11/7/08	DATE END		11/7/08	SHEET 1 OF 1		

DEPTH (ft)	STRATA SYMBOL	SAMPLE DATA SPT/ROD (%)	SAMPLE NO.	DEPTH (ft)	REC. (ft)	ELEV.	FIELD CLASSIFICATION AND REMARKS
0 - 5		10, 9	SS-1	0 - 2			Well graded gravel with sand (GW): mostly gravel (ballast), some med to coarse sand, trace silt, moist. (FILL)
5 - 10		100/6"	SS-2	4 - 4.5	60	198.4	Well graded sand with gravel (SW): mostly coarse sand, some gravel, trace black slag, trace silt, wet. (FILL)
10 - 15		RQD=50	RC-1	5 - 10		191.4	Gray/dark gray GNEISS, medium to coarse grained, severe weathering, highly fractured, poor condition.
15 - 35							Bottom of Hole at 10'.

COHESIVE SOIL		NON-COHESIVE SOIL		RELATIVE PROPORTIONS OF SOIL COMPONENTS		LEGEND	
BLOWS/FT	CONSISTENCY	BLOWS/FT	DENSITY	< 10%	TRACE	Angular Gravel (A5)	Block Core (BC) and RQD (RQD)
0 - 2	VERY SOFT	0 - 4	VERY LOOSE	15 - 25%	LITTLE	Split-Spoon Sample (SS) and Shear Core per # REC (R)	Undisturbed (U) - Shelby Tube (ST)
3 - 4	SOFT	5 - 10	LOOSE	30 - 45%	SOME	Air Sample (AS)	Soil Sample (S)
5 - 8	MEDIUM STIFF	11 - 30	MEDIUM DENSE	50 - 100%	MOSTLY		
9 - 15	STIFF	31 - 50	DENSE				
16 - 30	VERY STIFF	51 +	VERY DENSE				
30 +	HARD						

NOTE:

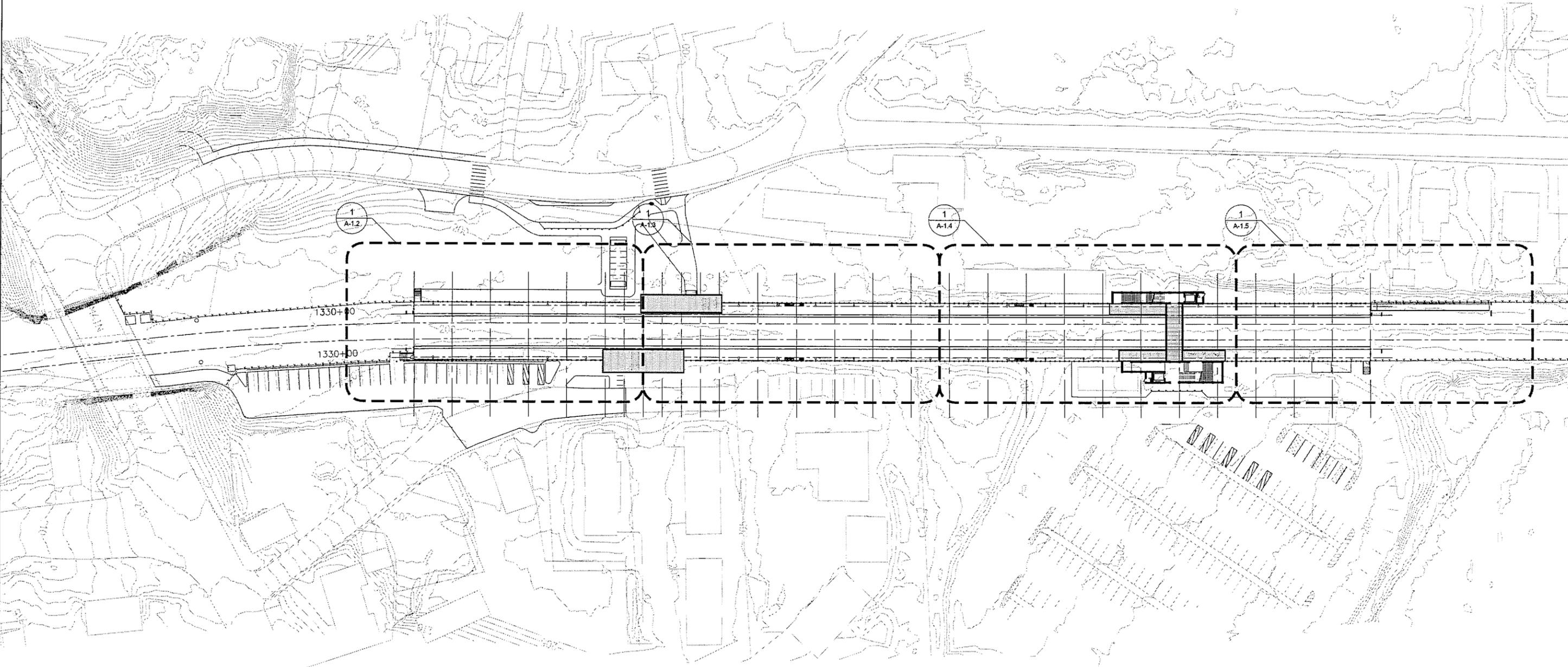
- SEE SHEET GT-2 FOR DETAILED NOTES.

60% SUBMITTAL
 NOT FOR CONSTRUCTION

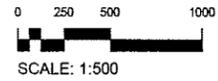
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
		FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION BORING LOGS SHEET 2 OF 2	
		300 APOLLO DRIVE CHELSEA, MA 02124 (978) 905-1000	
APPROVED BY:		DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER		DATE	
HORIZ: NONE		DES. BY: JAK	
VERT: NONE		DR. BY: JAK	
DATE: 09/30/10		PLAN NO.	
		SHEET GT-3 OF	

EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF ACTON



1 SITE
1:500



60% SUBMITTAL
NOT FOR CONSTRUCTION



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
FITCHBURG COMMUTER RAIL LINE
IMPROVEMENT PROJECT
CONTRACT NO. G67PS01

**SOUTH ACTON STATION
SITE PLAN**



300 APOLLO DRIVE
CHELSEA, MA 01824
(978) 905-4000

MASSACHUSETTS BAY TRANSPORTATION
AUTHORITY

APPROVED BY:

DIRECTOR OF OPERATIONS SUPPORT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

Lozano, Baskin, and Associates, Inc.
Architecture • Urban Design • City Planning
205 Mt. Auburn St. Watertown, MA 02472

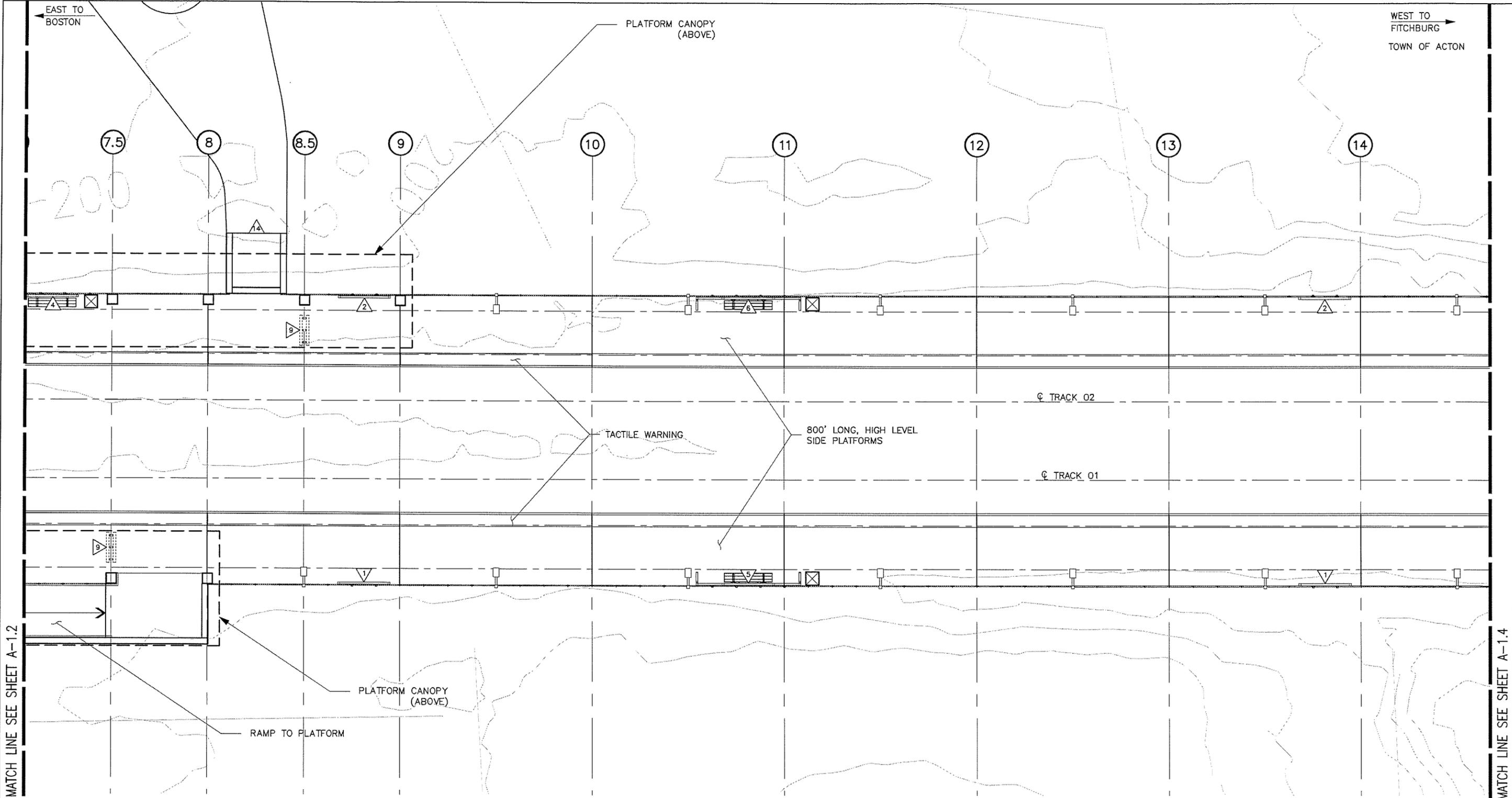
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VERT: _____
DATE: 09/30/2010

SEC. BY: XX
CHK. BY: CK
MB

PLAN NO. _____
SHEET A-1.1 OF _____

FILE NAME: Z:\DwgFiles\0814 Fitchburg Main Line\0814.01_So. Acton Station\7.0 Design Development\7.2 60% Submission\3.5 Dwg\ A-SP001.dwg
PLOT DATE: Sep 22, 2010 - 8:52am

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 PLOT DATE: Sep 22, 2010 - 8:51am

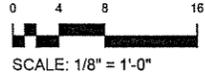


MATCH LINE SEE SHEET A-1.2

MATCH LINE SEE SHEET A-1.4

1 PLAN DETAIL
 1/8" = 1'-0"

60% SUBMITTAL
 NOT FOR CONSTRUCTION



		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION PLAN DETAILS 2 OF 4	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-4000		PROJECT MANAGER: _____ DATE: 09/30/2010	
Lozano, Baskin, and Associates, Inc. Architecture • Urban Design • City Planning 205 Mt. Auburn St. Watertown, MA 02472		HORIZ: _____ VERT: _____ DATE: 09/30/2010	
BY: _____ CHK. BY: _____ DATE: _____		PLAN NO. _____ SHEET A-1.3 OF _____	

EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF ACTON

23

24

25

26

SLOPED EGRESS WALKWAY

200

CL TRACK 02

CL TRACK 01

800' LONG, HIGH LEVEL
SIDE PLATFORMS

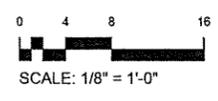
TACTILE WARNING

EGRESS STAIRS

MATCH LINE SEE SHEET A1.4

1 PLAN DETAIL
1/8" = 1'-0"

60% SUBMITTAL
NOT FOR CONSTRUCTION

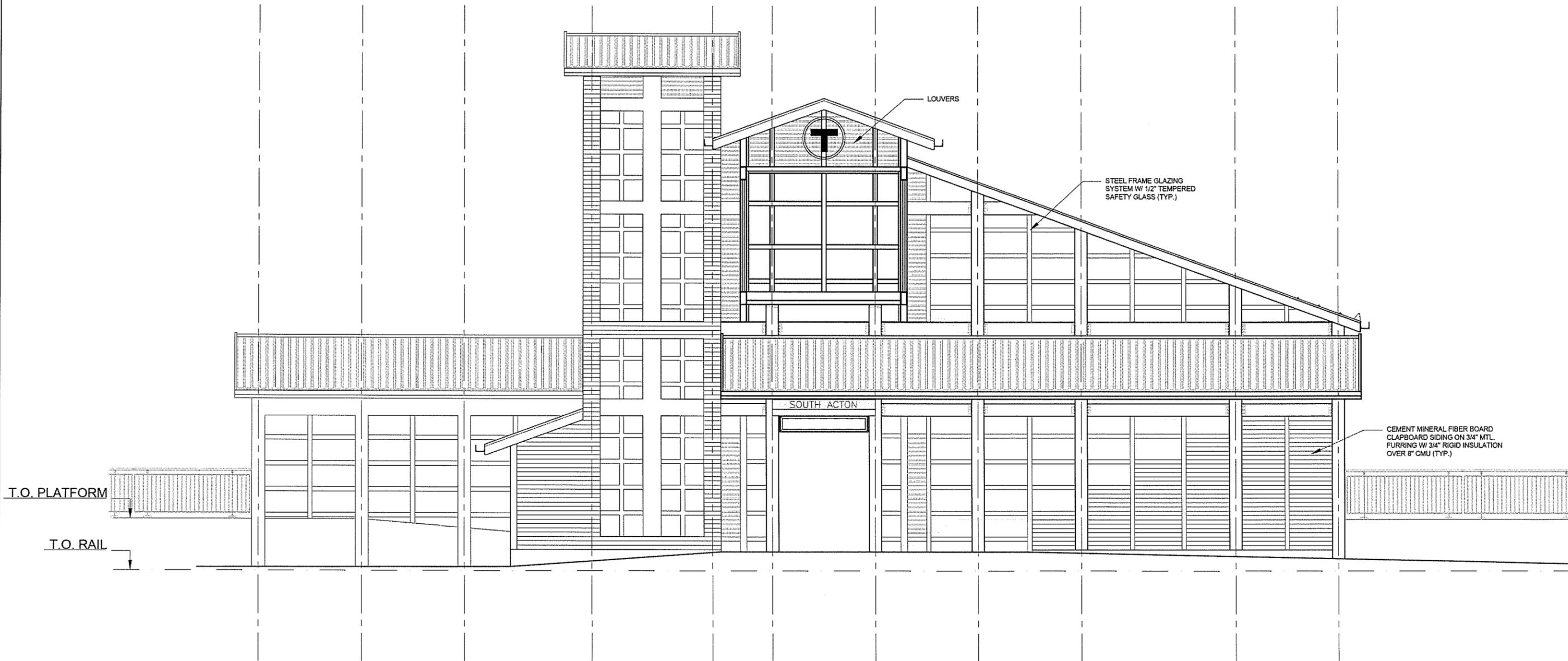


T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
FITCHBURG COMMUTER RAIL LINE
IMPROVEMENT PROJECT
CONTRACT NO. G67PS01
SOUTH ACTON STATION
PLAN DETAILS
4 OF 4

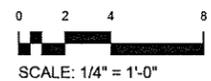
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APPROVED BY:		DIRECTOR OF OPERATIONS SUPPORT
PROJECT MANAGER	DATE	DATE
HORIZ:	DES. BY	CHK. BY
VERT:	XX	EA
DATE: 09/30/2010	MB	PLAN NO.
Lozano, Baskin, and Associates, Inc. Architecture • Urban Design • City Planning 205 Mt. Auburn St. Watertown, MA 02472		SHEET A-1.5 OF

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PLOT DATE: Sep 22, 2010 - 8:51am

FILE NAME: Z:\DwgFiles\0814 Fitchburg Main Line\0814.01_So. Acton Station\7.0 Design Development\7.2 60% Submission\3.5 Dwg\ A-EL001B.dwg
 PLOT DATE: Sep 22, 2010 - 8:42am



1 **OUTBOUND NORTH ELEVATION**
 1/4" = 1'-0"



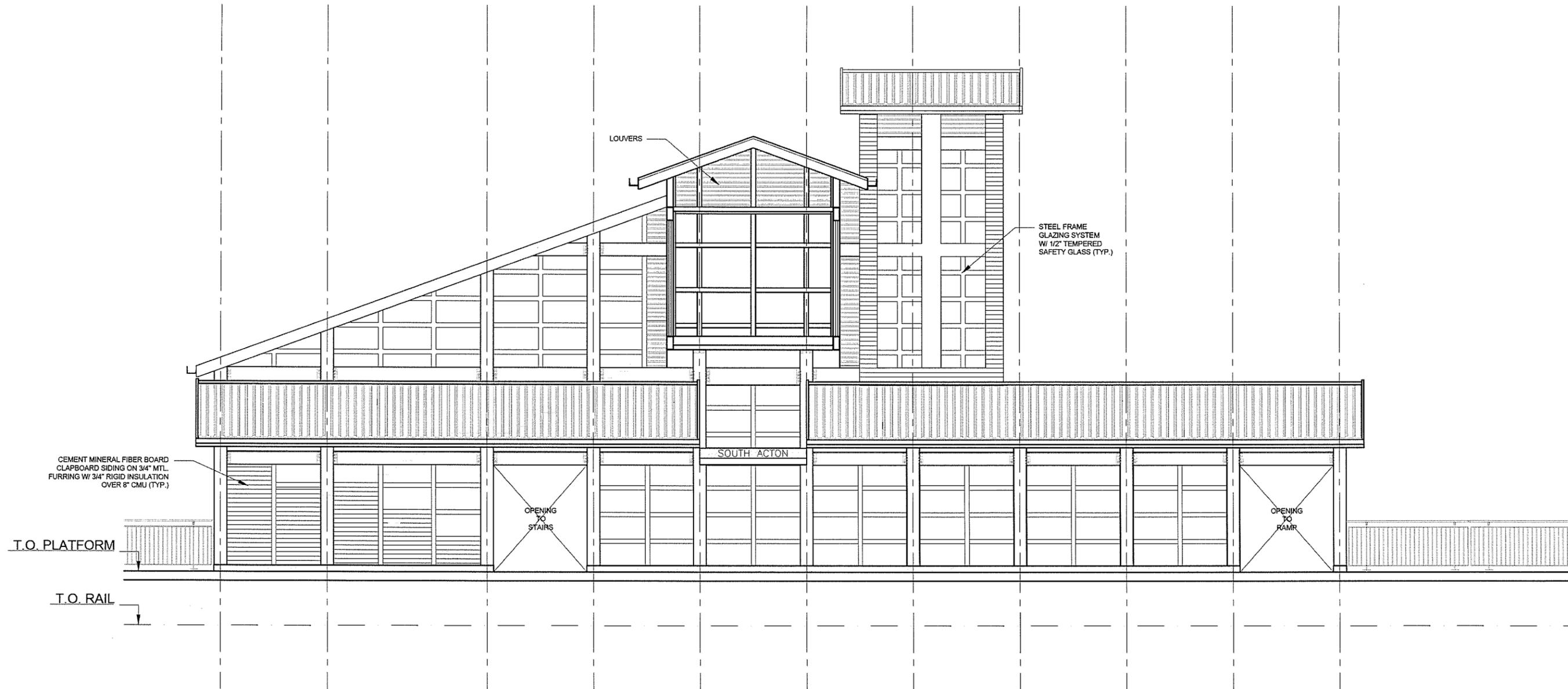
60% SUBMITTAL
 NOT FOR CONSTRUCTION

T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 FITCHBURG COMMUTER RAIL LINE
 IMPROVEMENT PROJECT
 CONTRACT NO. G67PS01
SOUTH ACTON STATION
HEAD HOUSE ELEVATIONS
 1 OF 6

HNTB 300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-6000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT Date _____	
PROJECT MANAGER _____ Date _____		DES. BY: _____ CK. BY: _____ DATE: 09/30/2010	
HORIZ: _____ VERT: _____ DATE: 09/30/2010		PLAN NO. _____ SHEET A-2.1 OF _____	

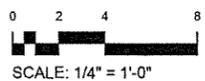
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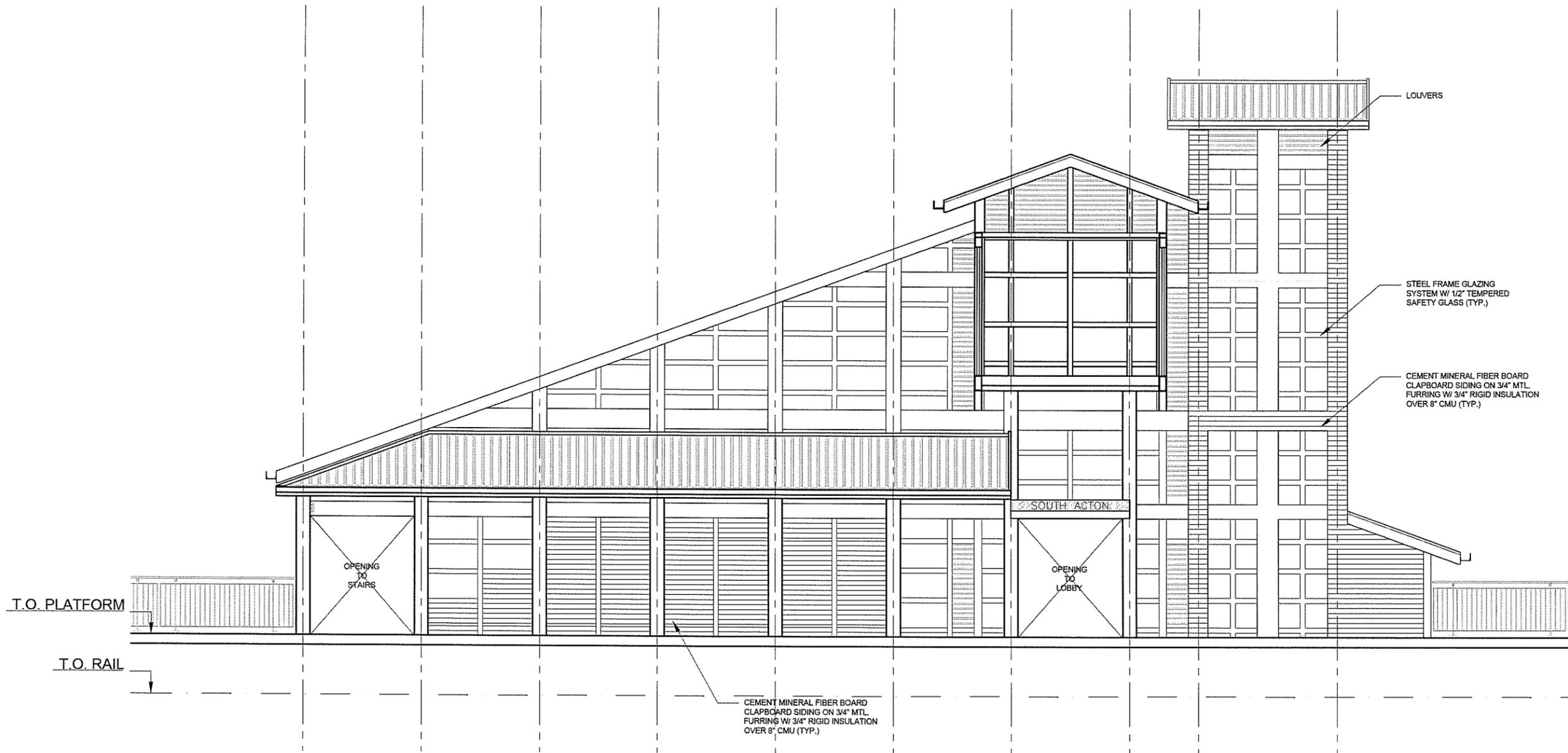
1 **OUTBOUND SOUTH ELEVATION**
 1/4" = 1'-0"

60% SUBMITTAL
 NOT FOR CONSTRUCTION

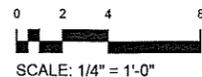


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	SOUTH ACTON STATION HEAD HOUSE ELEVATIONS 2 OF 6	
HNTB		300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-4000
APPROVED BY:		DIRECTOR OF OPERATIONS SUPPORT
PROJECT MANAGER		DATE
HORIZ:	DES. BY	CHK. BY
VERT:	XX	CK
DATE: 09/30/2010		
Lozano, Baskin, and Associates, Inc. Architecture • Urban Design • City Planning 205 Mt. Auburn St. Watertown, MA 02472		PLAN NO. SHEET A-2.2 OF

FILE NAME: Z:\DwgFiles\0814 Fitchburg Main Line\0814.01_So. Acton Station\7.0 Design Development\7.2 60% Submission\3.5 Dwg\ A-EL0018.dwg
 PLOT DATE: Sep 22, 2010 - 8:42am



1 INBOUND SOUTH ELEVATION
 1/4" = 1'-0"



60% SUBMITTAL
 NOT FOR CONSTRUCTION

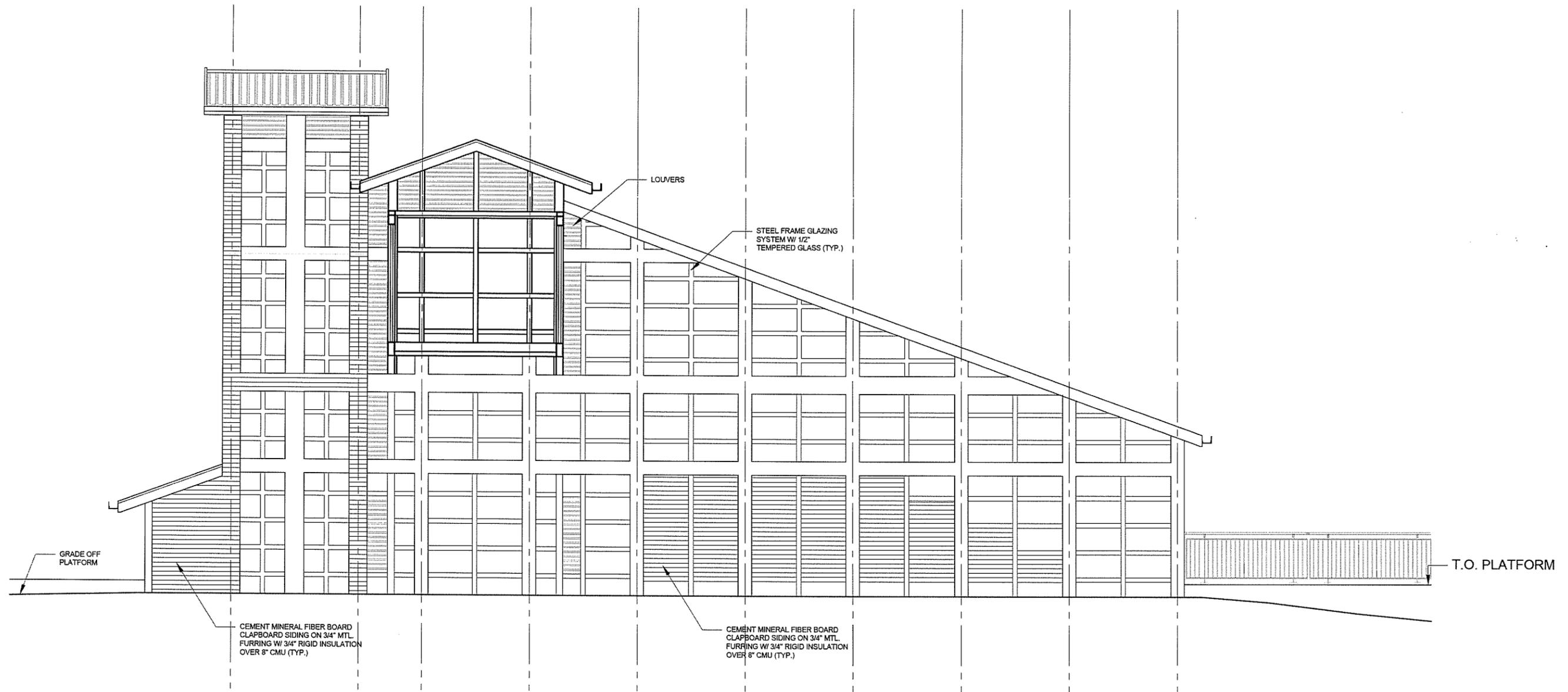
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		SOUTH ACTON STATION HEAD HOUSE ELEVATIONS 3 OF 6	
300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-4000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
		DATE: 09/30/2010	

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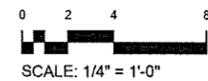
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VERT:			
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		CHK. BY	MB
		PLAN NO.	
		ISSUE	
		SHEET A-2.3	OF

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1 INBOUND NORTH ELEVATION
 1/4" = 1'-0"

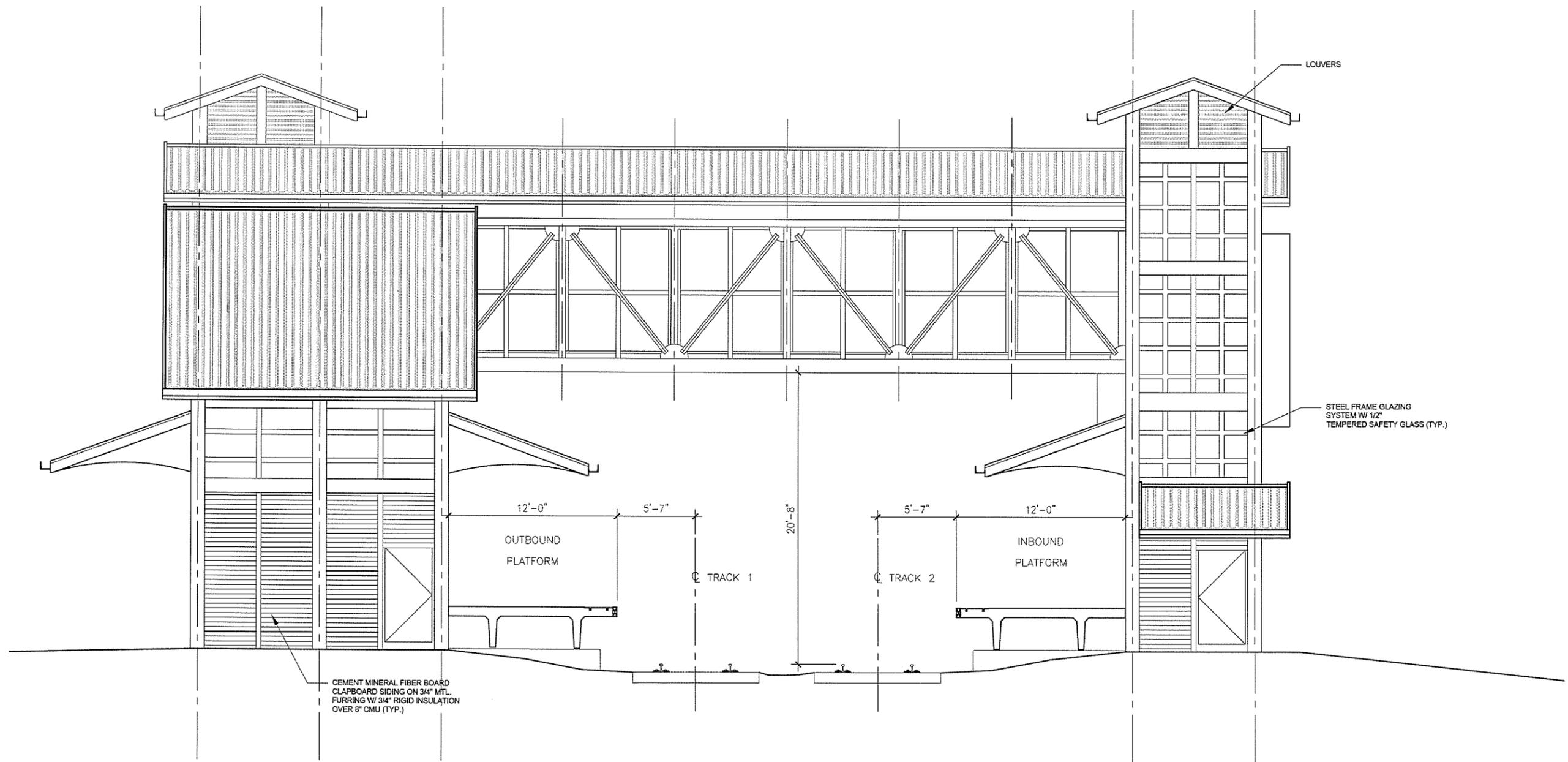
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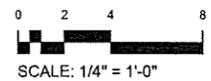
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	FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
SOUTH ACTON STATION HEAD HOUSE ELEVATIONS 4 OF 6		
HNTB	300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-4000	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
	APPROVED BY: _____ DATE: _____	
PROJECT MANAGER		DIRECTOR OF OPERATIONS SUPPORT
HORIZ: _____	DES. BY: XX	CHK. BY: CK
VERT: _____	DATE: 09/30/2010	PLAN NO. _____
DATE: 09/30/2010		SHEET A-2.4 OF _____

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 PLOT DATE: Sep 22, 2010 - 8:41am



1 EAST ELEVATION
 1/4" = 1'-0"

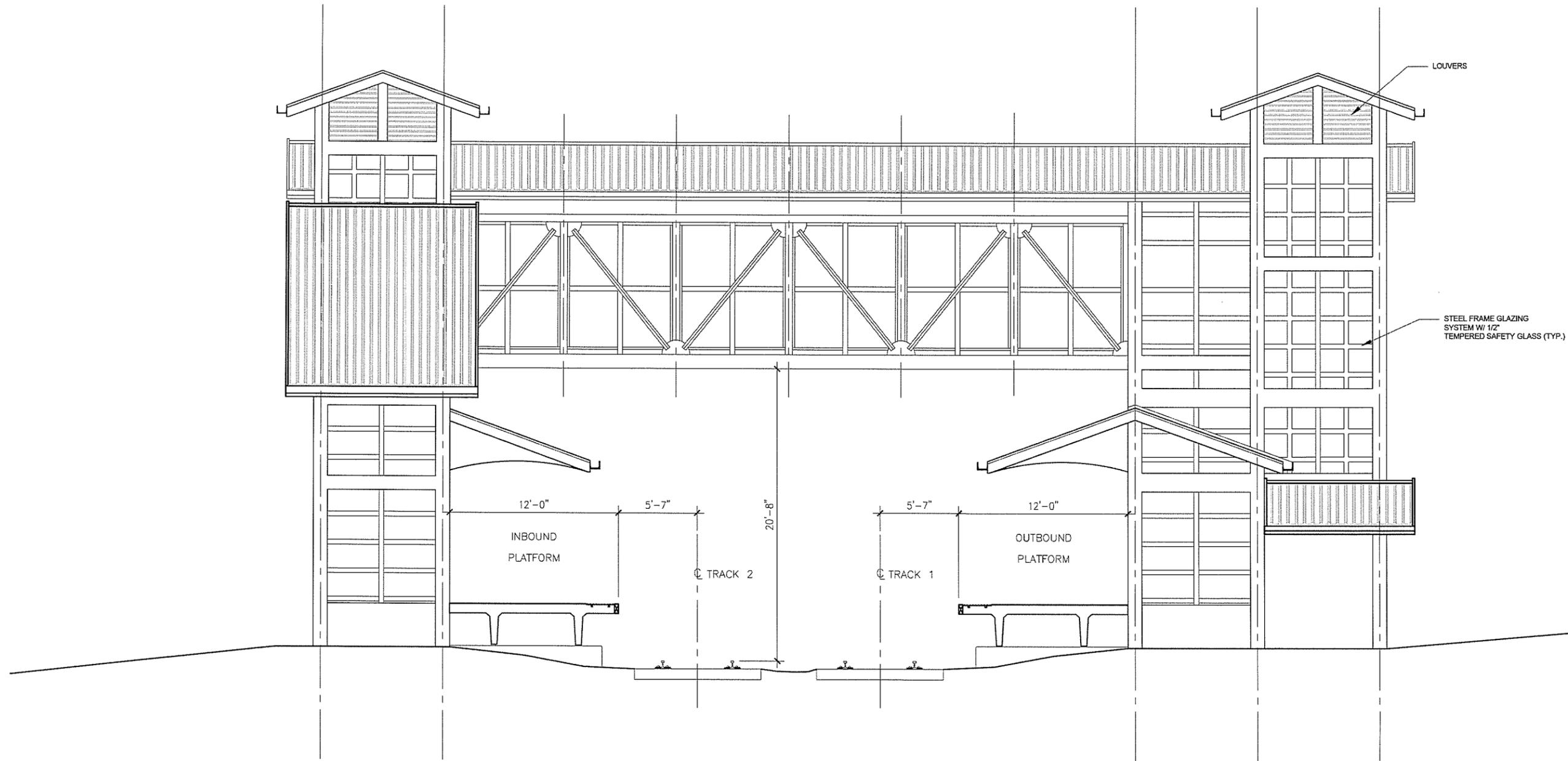


60% SUBMITTAL
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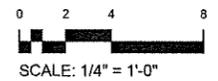
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		300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-4000	
PROJECT MANAGER DATE: 09/30/2010		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
Lozano, Baskin, and Associates, Inc. Architecture • Urban Design • City Planning 205 Mt. Auburn St. Watertown, MA 02472		PLAN NO. _____ SHEET A-2.5 OF _____	

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 PLOT DATE: Sep 22, 2010 - 8:41am

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 NOT FOR CONSTRUCTION



1 WEST ELEVATION
 1/4" = 1'-0"



T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 FITCHBURG COMMUTER RAIL LINE
 IMPROVEMENT PROJECT
 CONTRACT NO. G67PS01
 SOUTH ACTON STATION
 HEAD HOUSE ELEVATIONS
 6 OF 6

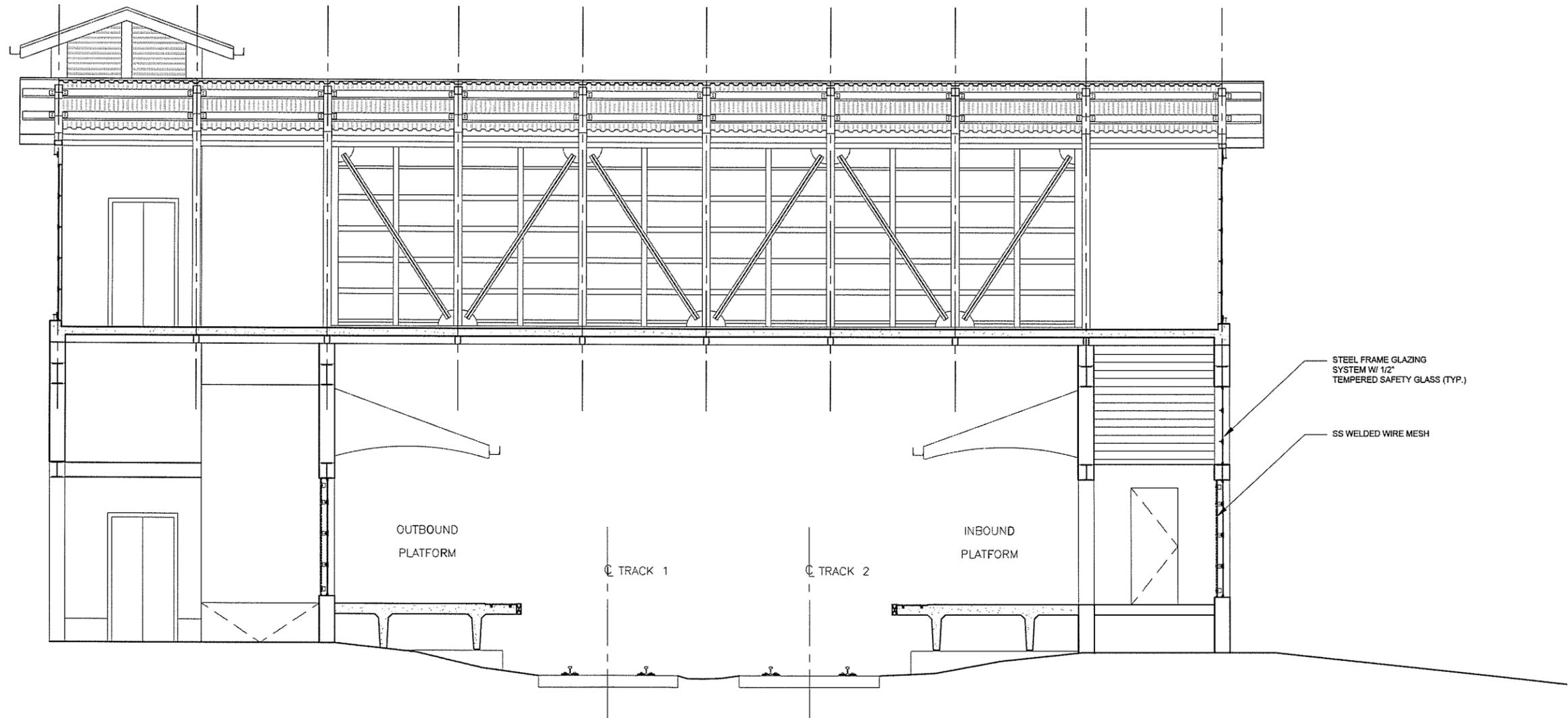
HNTB 300 APOLLO DRIVE
 CHELMSFORD, MA 01824
 (978) 905-4000
 MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 APPROVED BY: _____
 DIRECTOR OF OPERATIONS SUPPORT Date _____

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PROJECT MANAGER Date
 HORIZ: _____
 VERT: _____
 DATE: 09/30/2010
 DES. BY: XX
 DR. BY: CK
 CHK. BY: MB
 PLAN NO. _____
 SHEET A-2.6 OF _____

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 PLOT DATE: Sep 22, 2010 - 9:19am



STEEL FRAME GLAZING SYSTEM W/ 1/2" TEMPERED SAFETY GLASS (TYP.)

SS WELDED WIRE MESH

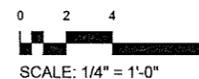
OUTBOUND PLATFORM

TRACK 1

TRACK 2

INBOUND PLATFORM

1 SECTION
 1/4" = 1'-0"



60% SUBMITTAL
 NOT FOR CONSTRUCTION

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 FITCHBURG COMMUTER RAIL LINE
 IMPROVEMENT PROJECT
 CONTRACT NO. G67PS01

SOUTH ACTON STATION
 BUILDING SECTIONS
 HEAD HOUSES & BRIDGE

HNTB

300 APOLLO DRIVE
 CHELMSFORD, MA 01824
 (978) 905-4000

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

DIRECTOR OF OPERATIONS SUPPORT

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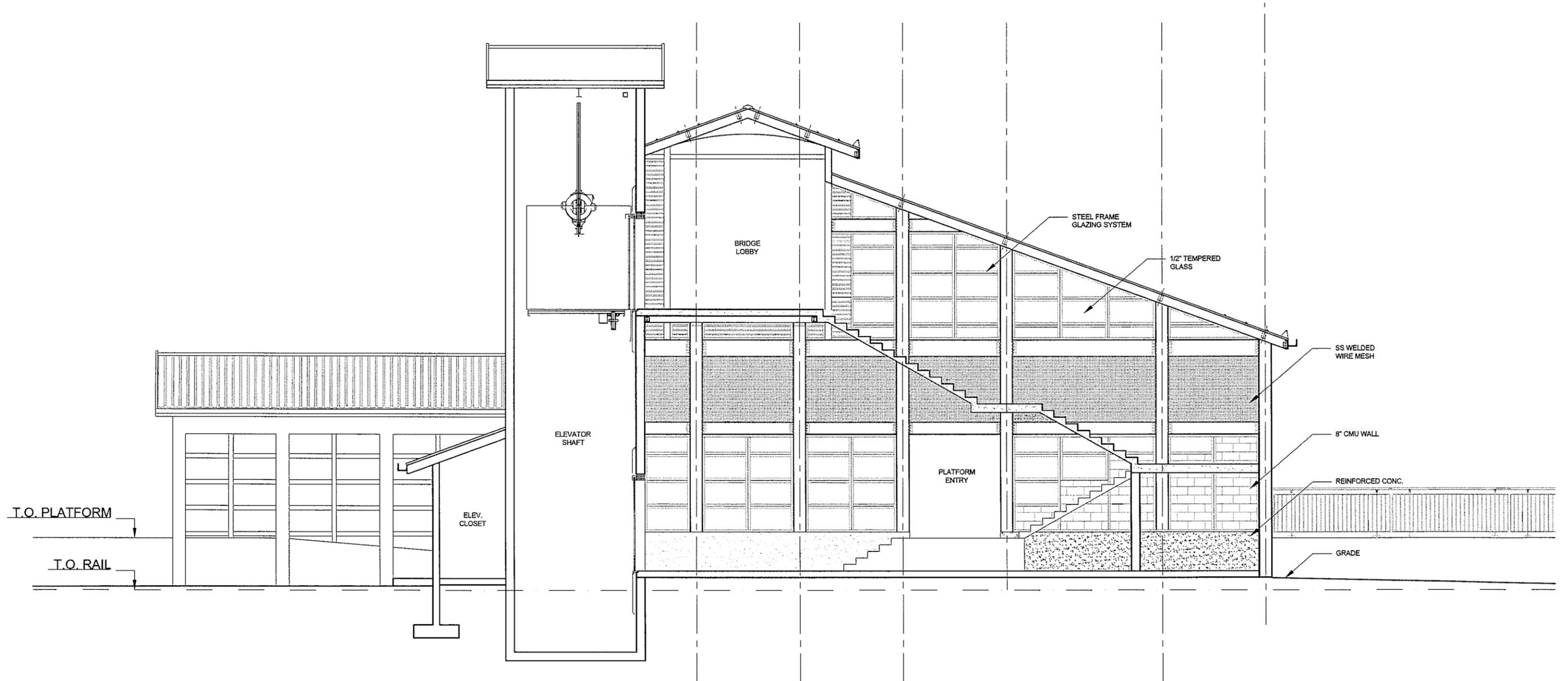
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VERT:						
DATE: 09/30/2010						



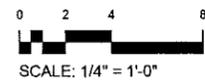
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 Architecture • Urban Design • City Planning
 205 Mt. Auburn St. Watertown, MA 02472

SHEET A-3.1 OF

FILE NAME: Z:\DwgFiles\0814\Fitchburg Main Line\0814.01_So. Acton Station\7.0 Design Development\7.2 60% Submission\3.5 Dwg\ A-SE001.dwg
 PLOT DATE: Sep 22, 2010 - 9:18am



1 SECTION
 1/4" = 1'-0"



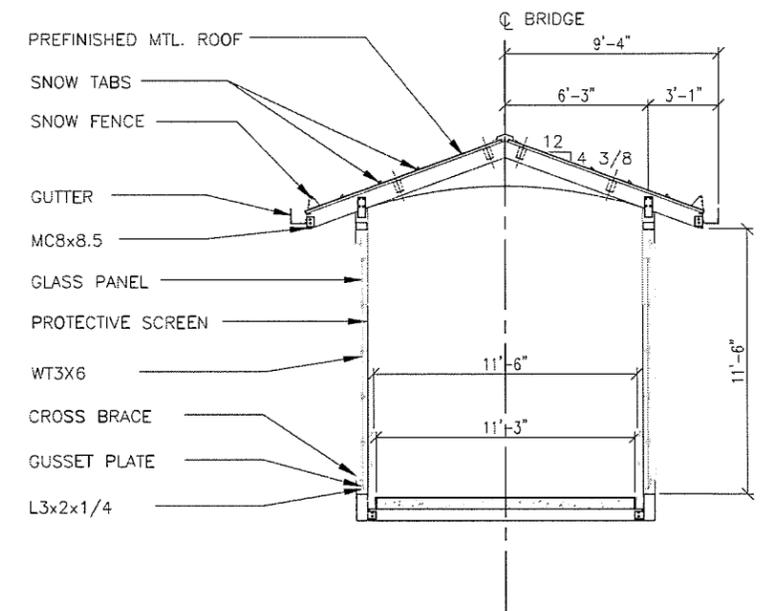
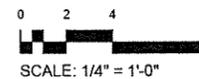
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		SOUTH ACTON STATION BUILDING SECTIONS OUTBOUND HEAD HOUSE	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER HORIZ: _____ VERT: _____ DATE: 09/30/2010		DATE DES. BY: XX DR. BY: CK CHK. BY: MB	
PLAN NO. _____ SHEET A-3.2 OF _____		ISSUE _____	

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 PLOT DATE: Sep 22, 2010 - 9:19am

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1 SECTION THRU BRIDGE
 1/4" = 1'-0"

		T		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
				FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
				SOUTH ACTON STATION BUILDING SECTIONS	
		HNTB		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
		300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-4000		APPROVED BY:	
		PROJECT MANAGER		DIRECTOR OF OPERATIONS SUPPORT	
		DATE: 09/30/2010		DATE:	
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		DATE: 09/30/2010		DATE:	
		PLAN NO.		ISSUE	
		SHEET A-3.4 OF			



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HORIZ: _____
 VERT: _____
 DATE: 09/30/2010

PLAN NO. _____
 SHEET A-3.4 OF _____

EAST TO
BOSTON

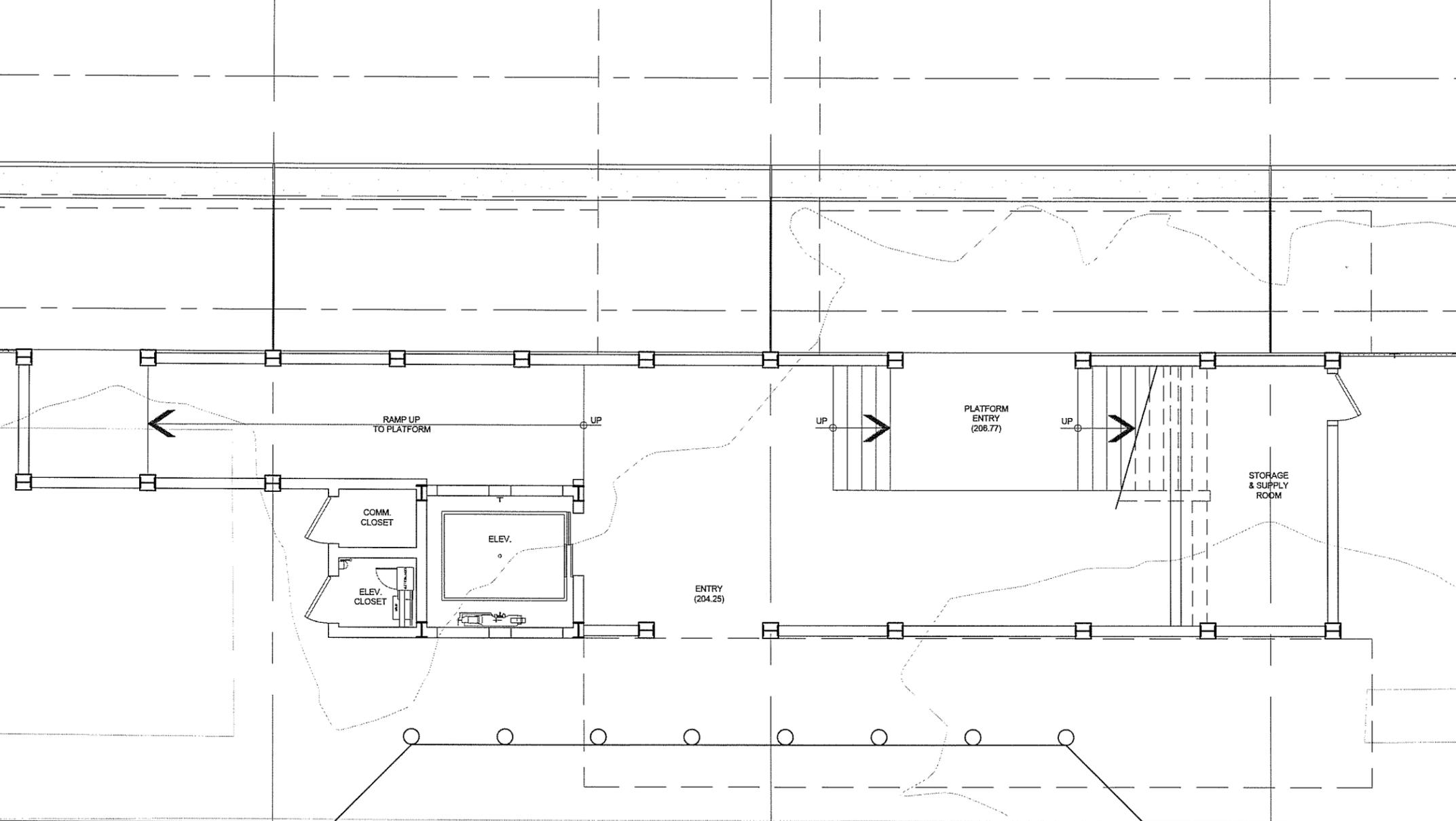
WEST TO
FITCHBURG
TOWN OF ACTON

19

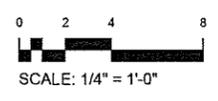
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1 PLAN DETAIL
1/4" = 1'-0"



60% SUBMITTAL
NOT FOR CONSTRUCTION

T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 FITCHBURG COMMUTER RAIL LINE
 IMPROVEMENT PROJECT
 CONTRACT NO. G67PS01
 SOUTH ACTON STATION
 FIRST FLOOR PLAN
 OUTBOUND HEAD HOUSE

HNTB 300 APOLLO DRIVE
 CHELMSFORD, MA 01824
 (978) 905-4000

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 APPROVED BY: _____
 DIRECTOR OF OPERATIONS SUPPORT Date

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 CK: CK
 MB: MB

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 SHEET A-4.1 OF _____

FILE NAME: Z:\DwgFiles\0814 Fitchburg Main Line\0814.01_So. Acton Station\7.0 Design Development\7.2 60% Submittal\3.5 Dwg\ A-FP002.dwg
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EAST TO
BOSTON

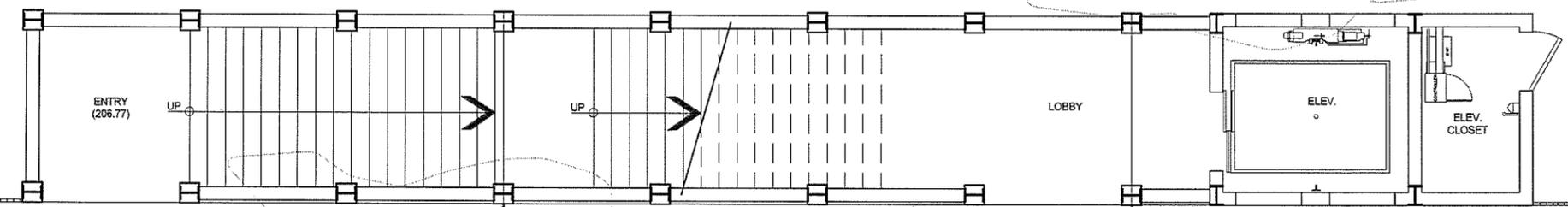
WEST TO
FITCHBURG
TOWN OF ACTON

19

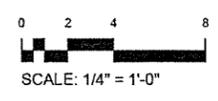
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1 PLAN DETAIL
1/4" = 1'-0"



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PLOT DATE: Sep 22, 2010 - 8:40am

		T		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY																									
				FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01																									
				SOUTH ACTON STATION FIRST FLOOR PLAN INBOUND HEAD HOUSE																									
				HNTB 300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-4000																									
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY		APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT																									
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Lozano, Baskin, and Associates, Inc. Architecture • Urban Design • City Planning 205 Mt. Auburn St. Watertown, MA 02472		HORIZ: _____ VERT: _____ DATE: 09/30/2010		PLAN NO. _____ SHEET A-4.2 OF _____																									

EAST TO
BOSTON

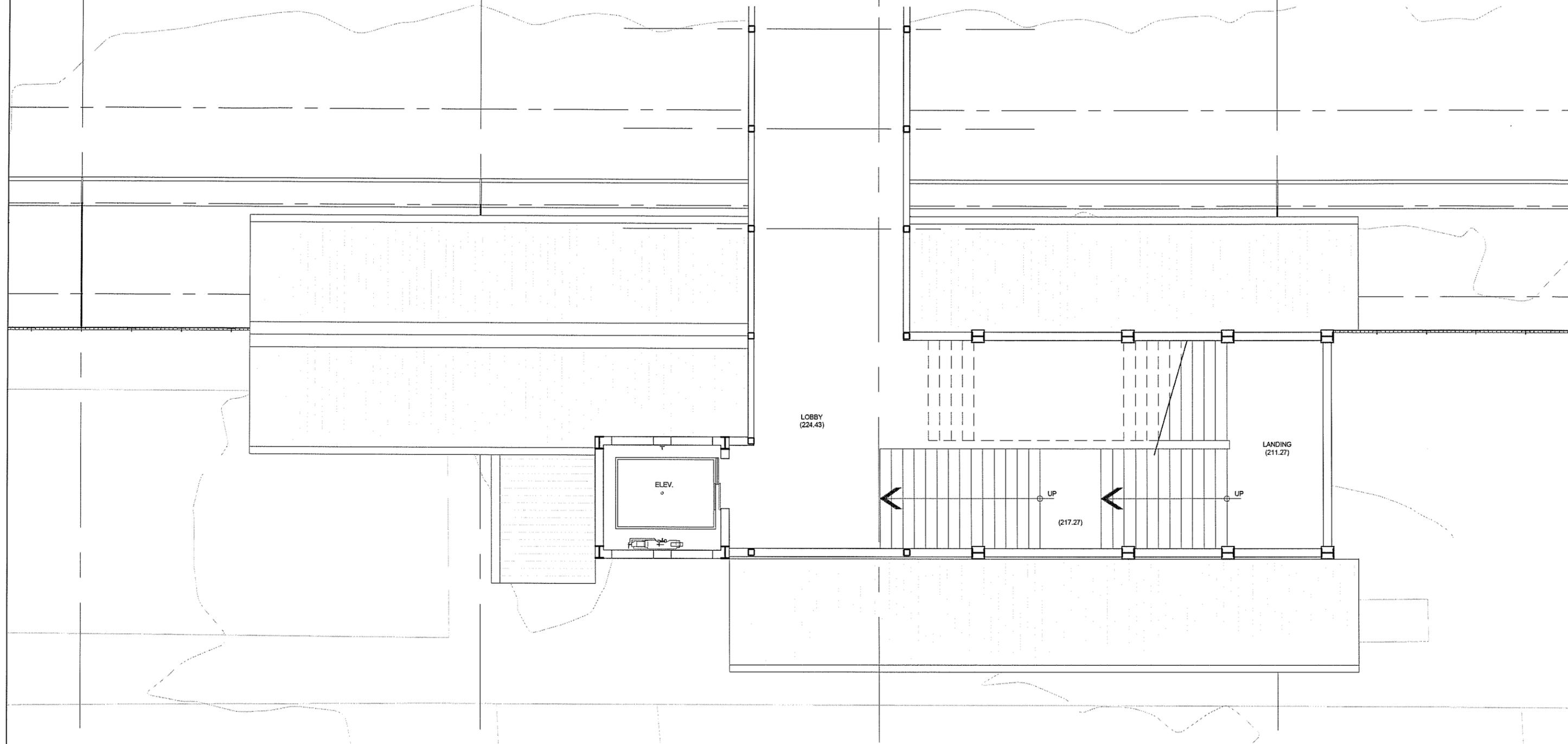
WEST TO
FITCHBURG
TOWN OF ACTON

19

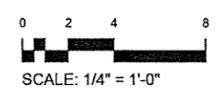
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1 PLAN DETAIL
1/4" = 1'-0"



60% SUBMITTAL
NOT FOR CONSTRUCTION

T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 FITCHBURG COMMUTER RAIL LINE
 IMPROVEMENT PROJECT
 CONTRACT NO. G67PS01
 SOUTH ACTON STATION
 SECOND FLOOR PLAN
 OUTBOUND HEAD HOUSE

HNTB <small>300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-4000</small>		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT
PROJECT MANAGER DATE: 09/30/2010	DESIGNED BY: XX CHECKED BY: CK DATE: 09/30/2010	DATE: 09/30/2010 PLAN NO. _____ SHEET A-4.3 OF _____

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EAST TO
BOSTON

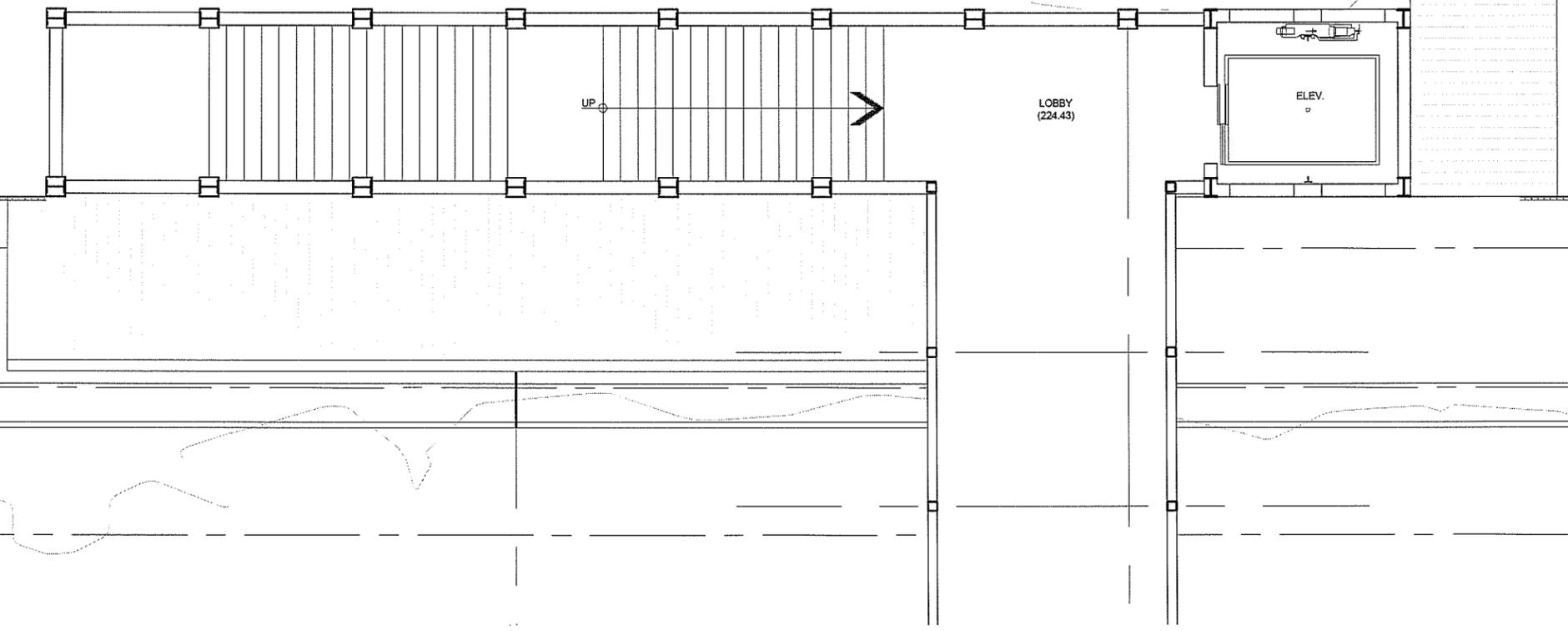
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FITCHBURG
TOWN OF ACTON

19

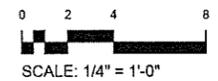
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21

22



1 PLAN DETAIL
1/4" = 1'-0"



60% SUBMITTAL
NOT FOR CONSTRUCTION

FILE NAME: Z:\DwgFiles\0814 Fitchburg Main Line\0814.01_So. Acton Station\7.0 Design Development\7.2 60% Submission\3.5 Dwg\ A-PP002.dwg
PLOT DATE: Sep 22, 2010 -- 8:40am

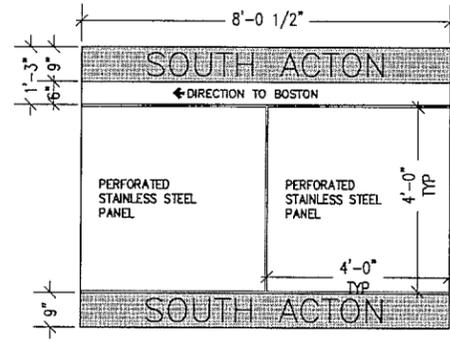
		T		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
				FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
				SOUTH ACTON STATION SECOND FLOOR PLAN INBOUND HEAD HOUSE	
				 300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-4000	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY		APPROVED BY:	
		PROJECT MANAGER		DATE	
		HORIZ:		DIR. BY	
		VERT:		CHK. BY	
		DATE: 09/30/2010		PLAN NO.	
				SHEET A-4.4 OF	

 **Lozano, Baskin, and Associates, Inc.**
Architecture • Urban Design • City Planning
205 Mt. Auburn St. Watertown, MA 02472

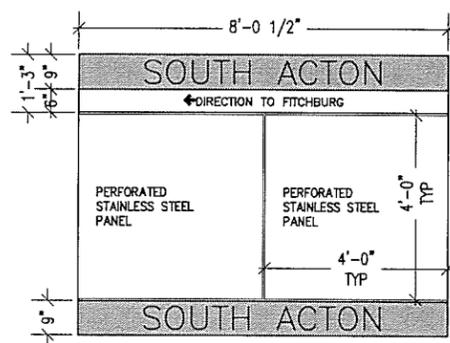
FILE NAME: Z:\Dwgfiles\0814 Fitchburg Main Line\0814.01_So. Acton Station\7.0 Design Development\7.2 60% Submission\3.5 Dwg\ A--SIGN_DED1.dwg
 PLOT DATE: Sep 22, 2010 - 9:28am

EAST TO
BOSTON

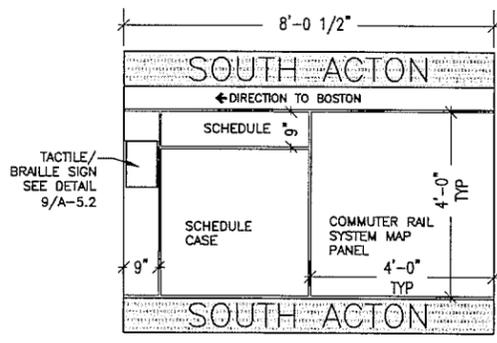
WEST TO
FITCHBURG
TOWN OF ACTON



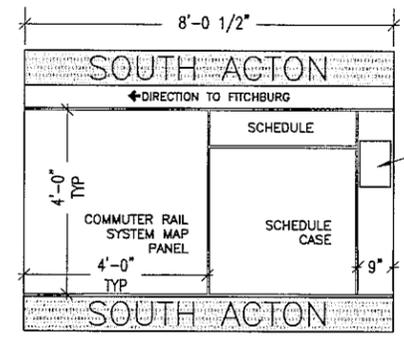
1 GRAPHIC 01
SCALE : 1/2" = 1'-0"



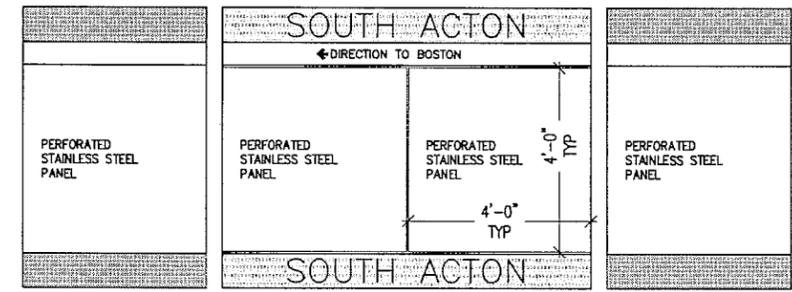
2 GRAPHIC 02
SCALE : 1/2" = 1'-0"



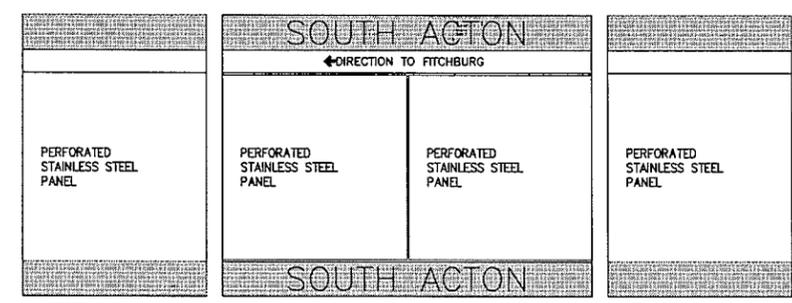
3 GRAPHIC 03
SCALE : 1/2" = 1'-0"



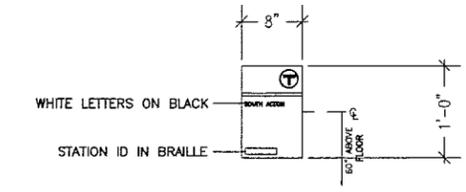
4 GRAPHIC 04
SCALE : 1/2" = 1'-0"



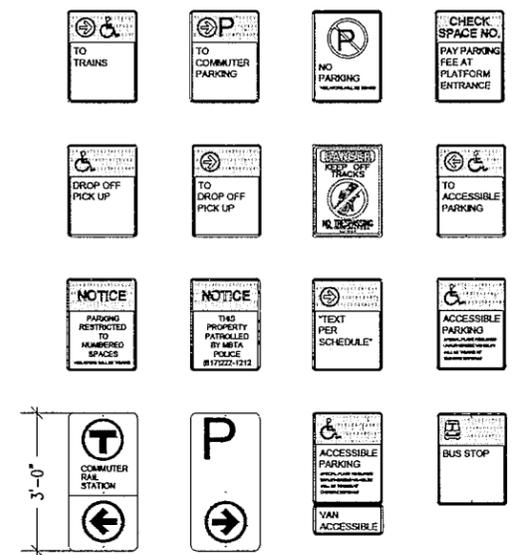
5 GRAPHIC 05
SCALE : 1/2" = 1'-0"



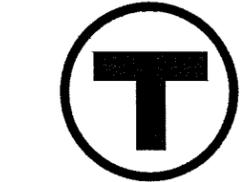
6 GRAPHIC 06
SCALE : 1/2" = 1'-0"



7 TACTILE/BRAILLE SIGN
SCALE : 1" = 1'-0"



8 TRAFFIC SIGNS
SCALE : 1/2" = 1'-0"



9 GRAPHIC 09
"T" LOGO PROPORTIONS FOR DIAMETER LARGER THAN 4" NTS

NOTES:

- ALL TEXT TO BE IN MBTA STANDARD, HELVETICA MEDIUM.
- ALL TACTILE/BRAILLE LETTERING SHALL BE MINIMUM 5/8" HIGH.
- TACTILE/BRAILLE SIGNS SHALL BE MOUNTED CENTERLINE OF SIGN 60" ABOVE PLATFORM/ SIDEWALK SURFACE.
- GRAPHICS SHOWN ARE FOR CONTENT ONLY. REFER TO CURRENT MBTA GRAPHIC STANDARDS FOR COMPLETE DESIGN GUIDELINES.
- REFER TO SCHEDULE FOR SIGN MOUNTING AND FRAMING DETAILS.

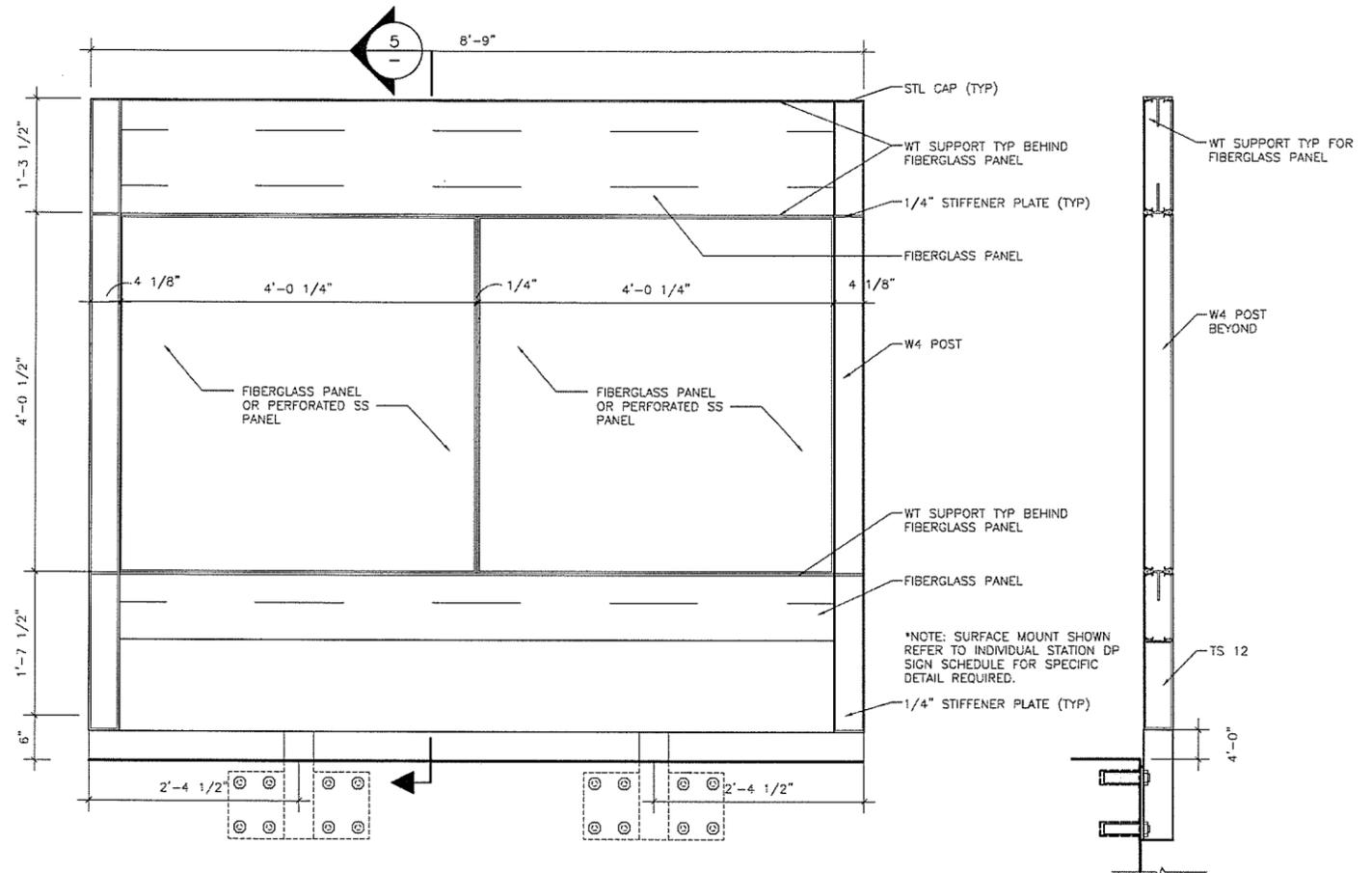
COLOR KEY:

- MBTA STANDARD COMMUTER RAIL PURPLE COLOR W/ WHITE LETTERS
- MBTA APPROVED WHITE W/ BLACK LETTERS

60% SUBMITTAL
NOT FOR CONSTRUCTION

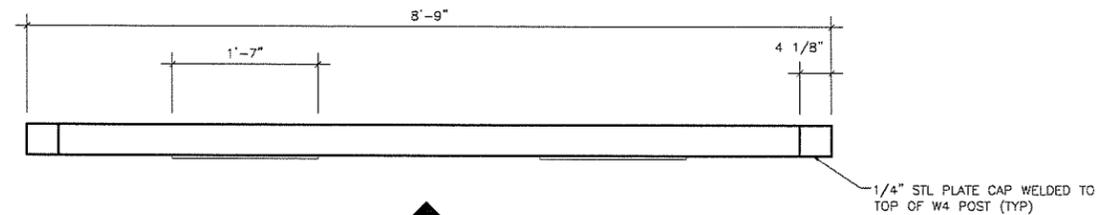
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION SIGN GRAPHICS	
HNTB 300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-4000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER DATE: 09/30/2010		DES. BY: XX DR. BY: EA CHK. BY: MB	
Lozano, Baskin, and Associates, Inc. Architecture • Urban Design • City Planning 205 Mt. Auburn St. Watertown, MA 02472		PLAN NO. SHEET A-5.2 OF _____	

FILE NAME: Z:\DwgFiles\0814 Fitchburg Main Line\0814.01_So. Acton Station\7.0 Design Development\7.2 60% Submission\3.5 Dwg\ A-SIGN DED02.dwg
 PLOT DATE: Sep 22, 2010 - 9:28am



3
 2 BAY SIGN: TYPE B'
 ELEVATION
 SCALE: 1"=1'-0"

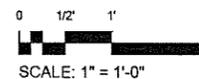
5
 2 BAY SIGN: TYPE B'
 SECTION
 SCALE: 1"=1'-0"



4
 2 BAY SIGN: TYPE B'
 PLAN
 SCALE: 1"=1'-0"

NOTES:

- SEE STRUCTURAL DWGS FOR ANCHOR BOLT AND FND FOOTING DETAILS.
- FIBERGLASS PANELS AT EA SIDE TYPICAL UNLESS OTHERWISE NOTED.
- REFER TO SIGN SCHEDULE FOR GRAPHIC CONTENT.
- ALL TUBE CONNECTIONS SHALL BE BEVEL WELDS GROUND SMOOTH PRIOR TO GALVANIZING (UNO).
- ALL WELDS FOR NON-TUBE SECTION CONNECTIONS SHALL BE FILLET WELDS PRIOR TO GALVANIZING (UNO).



60% SUBMITTAL
 NOT FOR CONSTRUCTION

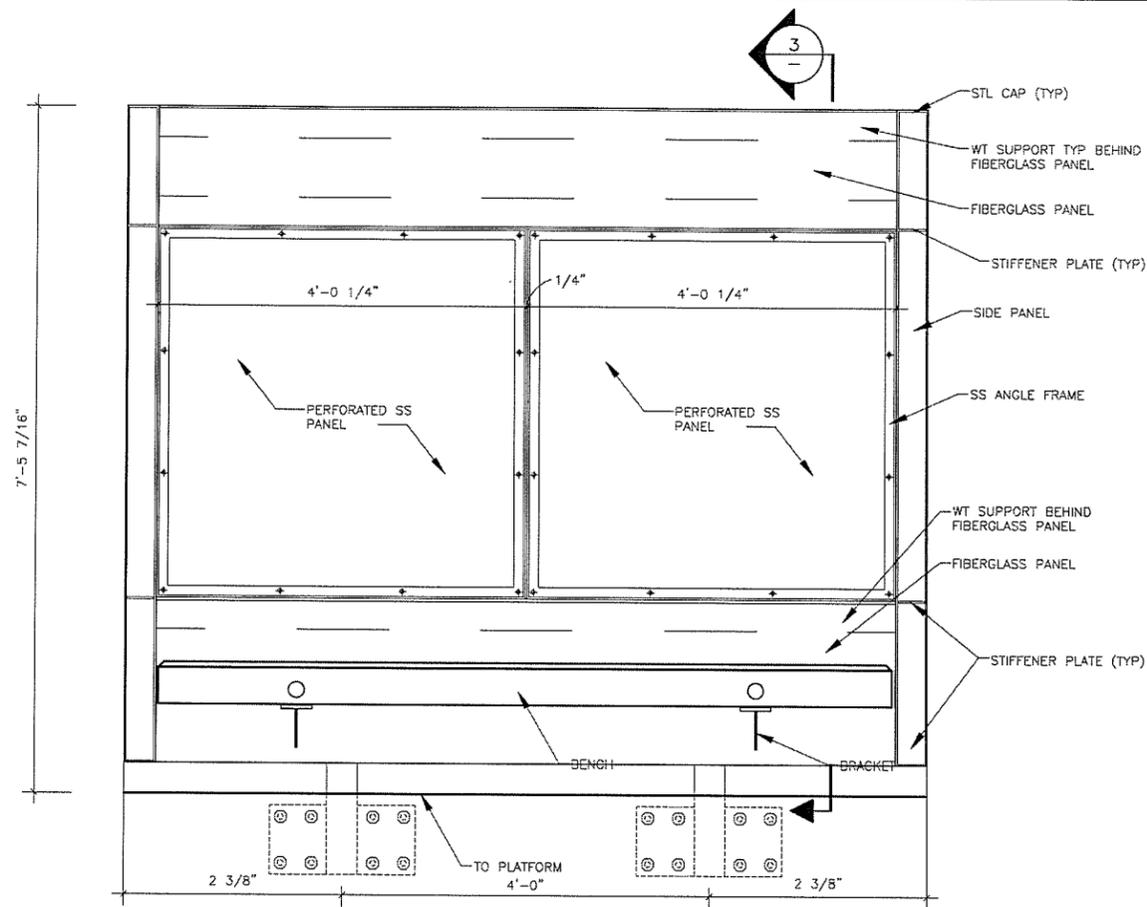
T	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
	SOUTH ACTON STATION SIGN DETAILS TYPE B'	
HNTB	300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-4000	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT
PROJECT MANAGER: _____ DATE: 09/30/2010		ISSUE NO. _____ SHEET A-5.3 OF _____



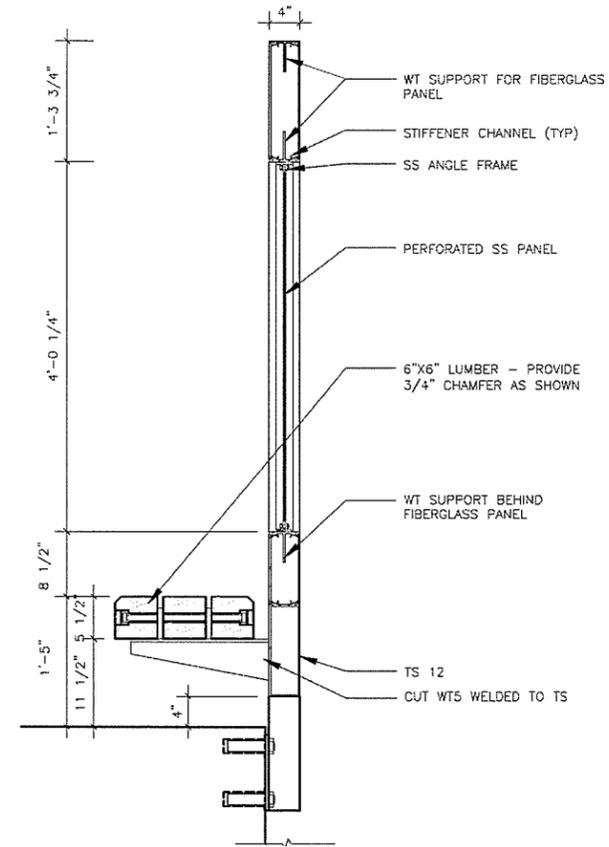
Lozano, Baskin, and Associates, Inc.
 Architecture • Urban Design • City Planning
 205 Mt. Auburn St. Watertown, MA 02472

HORIZ:	DES. BY: XX	CHK. BY: EA	DATE: 09/30/2010	ISSUE NO. _____
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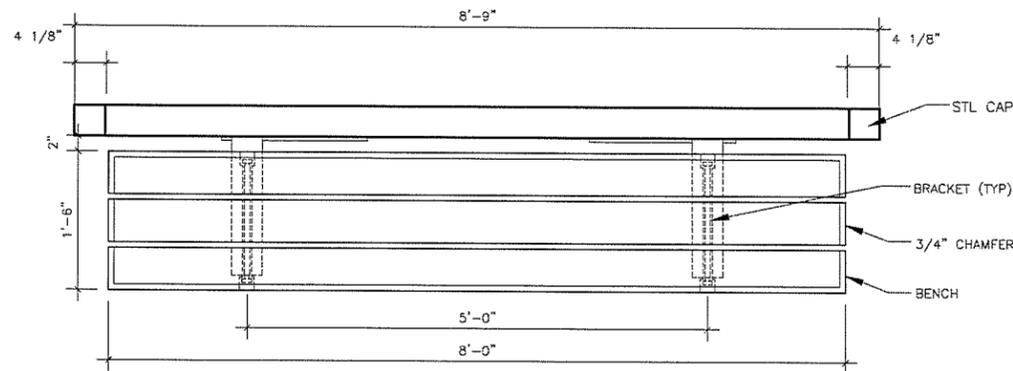
FILE NAME: Z:\DwgFiles\0814 Fitchburg Main Line\0814.01_So. Acton Station\7.0 Design Development\7.2 60% Submission\3.5 Dwg\A-SIGN DE02.dwg
 PLOT DATE: Sep 22, 2010 - 9:28am



1
 2 BAY-SINGLE BENCH: TYPE C'
 ELEVATION
 SCALE: 1"=1'-0"

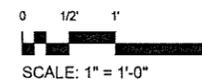


3
 2 BAY-SINGLE BENCH: TYPE C'
 SECTION
 SCALE: 1"=1'-0"



2
 2 BAY-SINGLE BENCH: TYPE C'
 PLAN
 SCALE: 1"=1'-0"

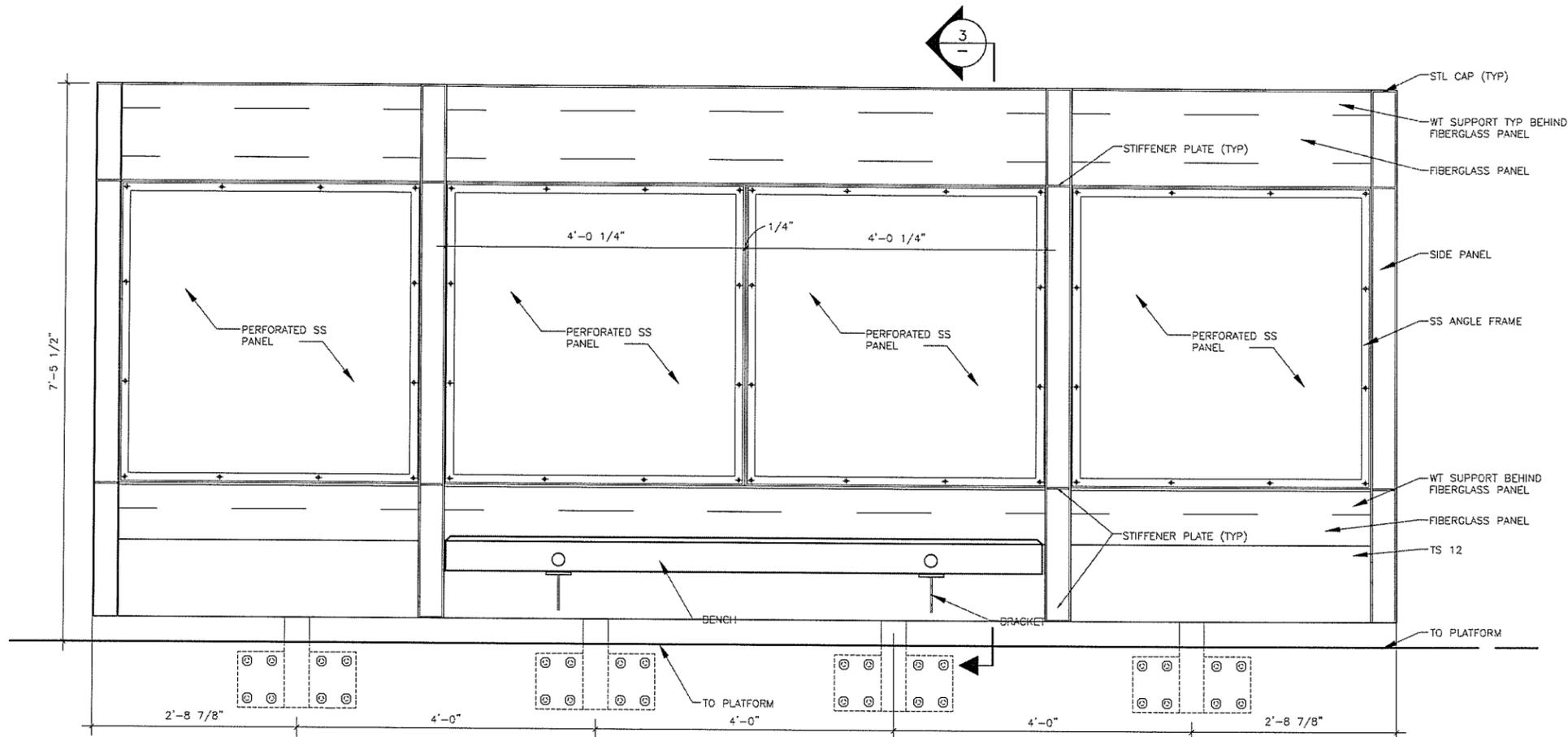
- NOTES:
- SEE STRUCTURAL DWGS FOR ANCHOR BOLT AND FND FOOTING DETAILS.
 - FIBERGLASS PANELS AT EA SIDE TYPICAL UNLESS OTHERWISE NOTED.
 - REFER TO INDIVIDUAL STATION DP FOR FIBERGLASS PANEL GRAPHIC CONTENT.
 - ALL TUBE CONNECTIONS SHALL BE BEVEL WELDS GROUND SMOOTH PRIOR TO GALVANIZING (UNO).
 - ALL WELDS FOR NON-TUBE SECTION CONNECTIONS SHALL BE FILLET WELDS PRIOR TO GALVANIZING (UNO).



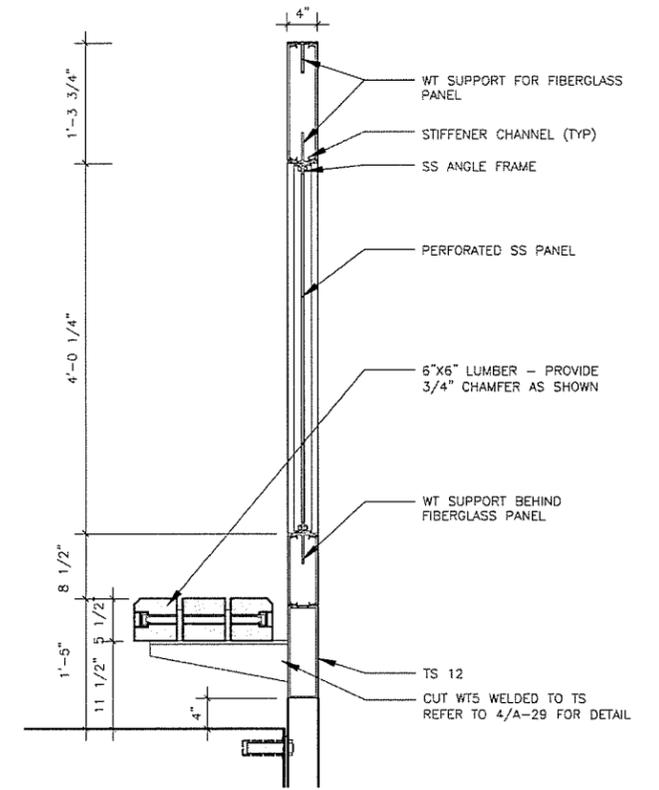
60% SUBMITTAL
 NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION SIGN DETAILS TYPE C'	
300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-4000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER DATE: 09/30/2010		DES. BY: XX DR. BY: EA CHK. BY: MB	
Lozano, Baskin, and Associates, Inc. Architecture • Urban Design • City Planning 205 Mt. Auburn St. Watertown, MA 02472		PLAN NO. _____ SHEET A-5.4 OF _____	

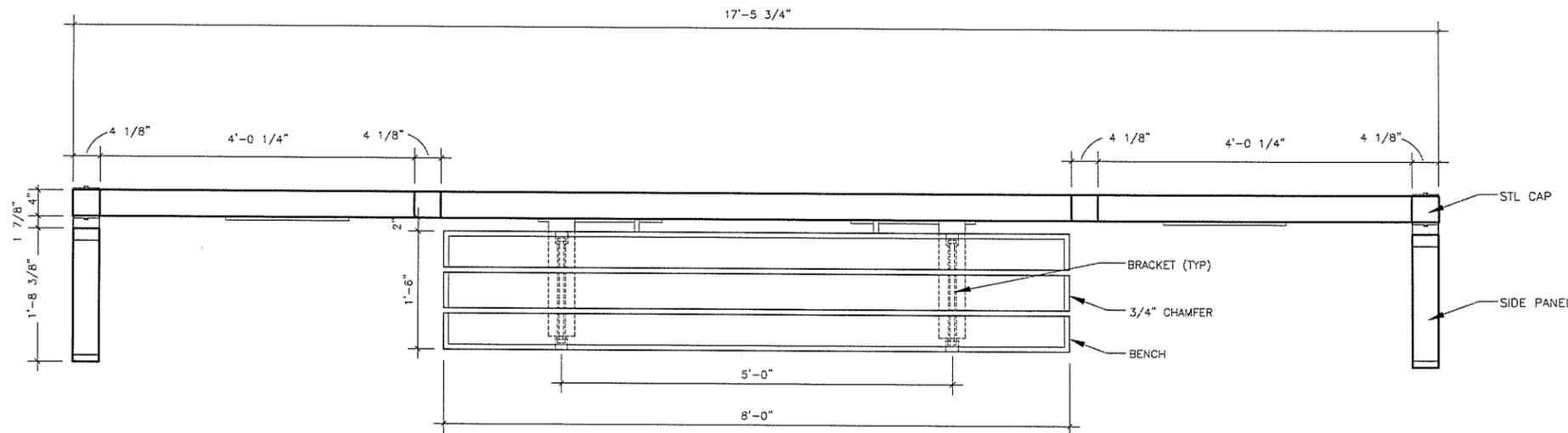
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 PLOT DATE: Sep 22, 2010 - 9:28am



1
 4 BAY-SINGLE BENCH: TYPE E'
 ELEVATION
 SCALE: 1"=1'-0"

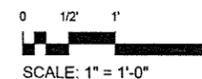


3
 2 BAY-SINGLE BENCH: TYPE E'
 SECTION
 SCALE: 1"=1'-0"



2
 4 BAY-SINGLE BENCH: TYPE E'
 PLAN
 SCALE: 1"=1'-0"

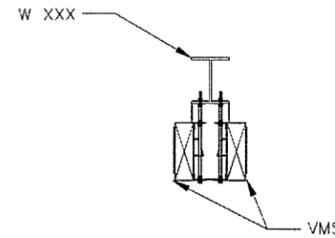
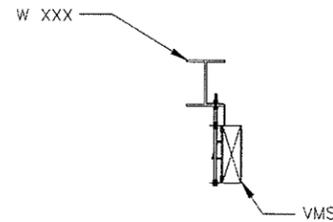
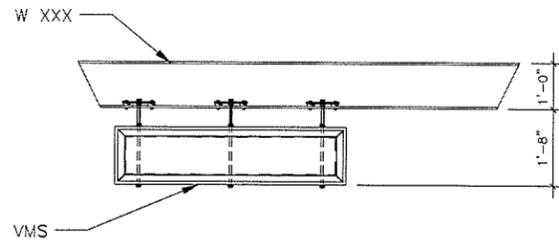
- NOTES:**
1. SEE STRUCTURAL DWGS FOR ANCHOR BOLT AND FND FOOTING DETAILS.
 2. FIBERGLASS PANELS AT EA SIDE TYPICAL UNLESS OTHERWISE NOTED.
 3. REFER TO INDIVIDUAL STATION DP FOR FIBERGLASS PANEL GRAPHIC CONTENT.
 4. ALL TUBE CONNECTIONS SHALL BE BEVEL WELDS GROUND SMOOTH PRIOR TO GALVANIZING (UNO).
 5. ALL WELDS FOR NON-TUBE SECTION CONNECTIONS SHALL BE FILLET WELDS PRIOR TO GALVANIZING (UNO).



60% SUBMITTAL
 NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION SIGN DETAILS TYPE E'	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER DATE: 09/30/2010		DES. BY: XX DR. BY: EA CHK. BY: MB	
Lozano, Baskin, and Associates, Inc. Architecture • Urban Design • City Planning 205 Mt. Auburn St. Watertown, MA 02472		PLAN NO. _____ SHEET A-5.5 OF _____	

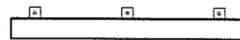
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 PLOT DATE: Sep 22, 2010 - 9:28am



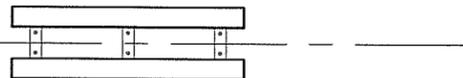
1 VARIABLE MESSAGE SIGN (VMS): TYPE F' & G' ELEVATION
 SCALE: 1/2"=1'-0"

4 VARIABLE MESSAGE SIGN (VMS)-SINGLE: TYPE F' ELEVATION
 SCALE: 1/2"=1'-0"

5 VARIABLE MESSAGE SIGN (VMS)-DOUBLE: TYPE G' ELEVATION
 SCALE: 1/2"=1'-0"



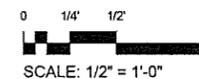
2 VARIABLE MESSAGE SIGN (VMS)-SINGLE: TYPE F' PLAN
 SCALE: 1/2"=1'-0"



3 VARIABLE MESSAGE SIGN (VMS)-DOUBLE: TYPE G' PLAN
 SCALE: 1/2"=1'-0"

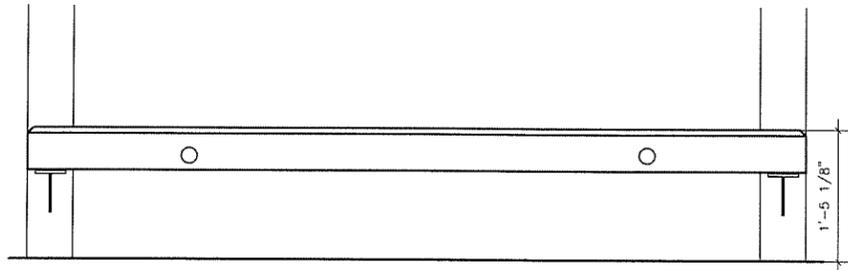
60% SUBMITTAL
 NOT FOR CONSTRUCTION

- NOTES:**
- SEE STRUCTURAL DWGS FOR ANCHOR BOLT AND FND FOOTING DETAILS.
 - FIBERGLASS PANELS AT EA SIDE TYPICAL UNLESS OTHERWISE NOTED.
 - REFER TO INDIVIDUAL STATION DP FOR FIBERGLASS PANEL GRAPHIC CONTENT.
 - ALL TUBE CONNECTIONS SHALL BE BEVEL WELDS GROUND SMOOTH PRIOR TO GALVANIZING (UNO).
 - ALL WELDS FOR NON-TUBE SECTION CONNECTIONS SHALL BE FILLET WELDS PRIOR TO GALVANIZING (UNO).

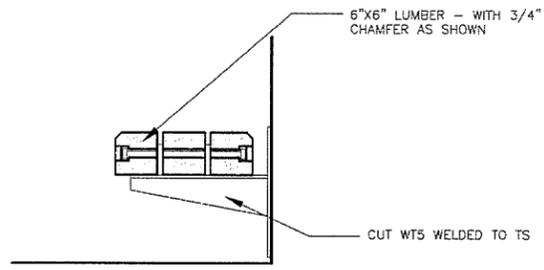


		T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION VARIABLE MESSAGE SIGN DETAILS	
HNTB 300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-4000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
Lozano, Baskin, and Associates, Inc. Architecture • Urban Design • City Planning 205 Mt. Auburn St. Watertown, MA 02472		DATE: 09/30/2010	
PROJECT MANAGER: _____ DATE: _____		PLAN NO. _____ SHEET A-5.6 OF _____	

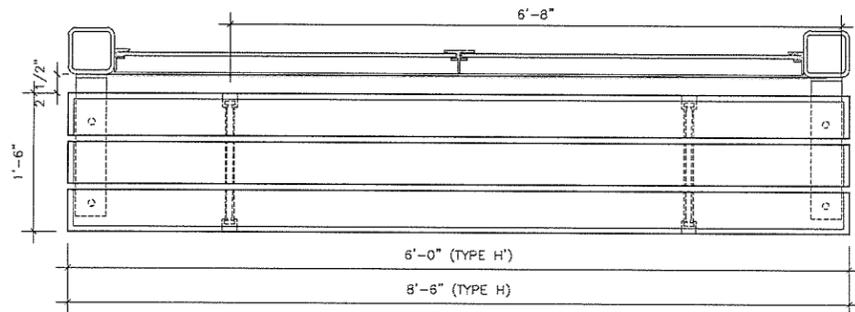
FILE NAME: Z:\DwgFiles\0814_Fitchburg Main Line\0814.01_So. Acton Station\7.0 Design Development\7.2 60% Submission\3.5 Dwg\ A-SIGN DE02.dwg
 PLOT DATE: Sep 22, 2010 - 9:28am



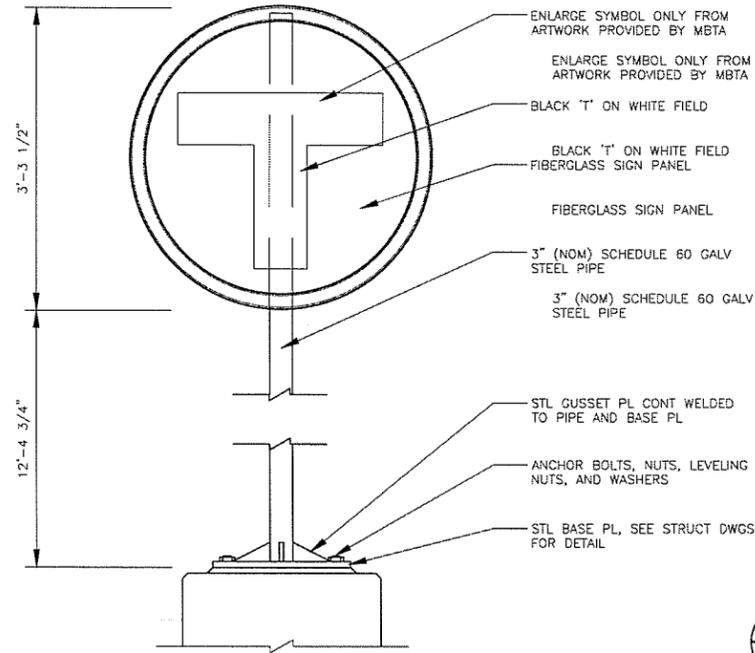
1 BENCH: TYPE H
 ELEVATION
 SCALE: 1"=1'-0"



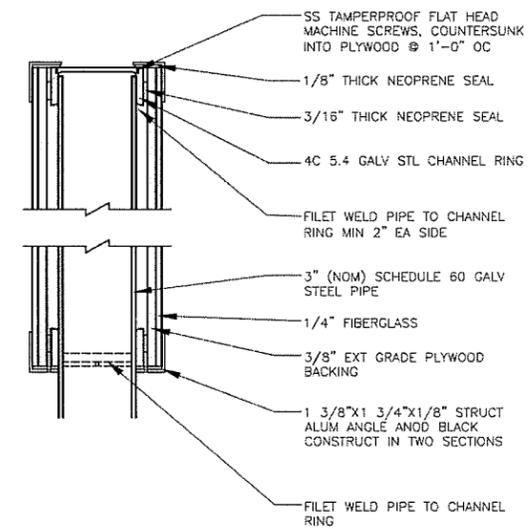
3 BENCH: TYPE H
 SECTION
 SCALE: 1"=1'-0"



2 BENCH: TYPE H
 PLAN
 SCALE: 1"=1'-0"

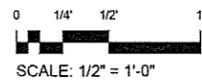


1 LOLLIPOP SIGN: TYPE I
 ELEVATION
 SCALE: 1"=1'-0"



2 LOLLIPOP SIGN: TYPE I
 SECTION
 SCALE: 1"=1'-0"

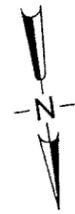
- NOTES:
1. SEE STRUCTURAL DWGS FOR ANCHOR BOLT AND FND FOOTING DETAILS.
 2. FIBERGLASS PANELS AT EA SIDE TYPICAL UNLESS OTHERWISE NOTED.
 3. REFER TO INDIVIDUAL STATION DP FOR FIBERGLASS PANEL GRAPHIC CONTENT.
 4. ALL TUBE CONNECTIONS SHALL BE BEVEL WELDS GROUND SMOOTH PRIOR TO GALVANIZING (UNO).
 5. ALL WELDS FOR NON-TUBE SECTION CONNECTIONS SHALL BE FILLET WELDS PRIOR TO GALVANIZING (UNO).



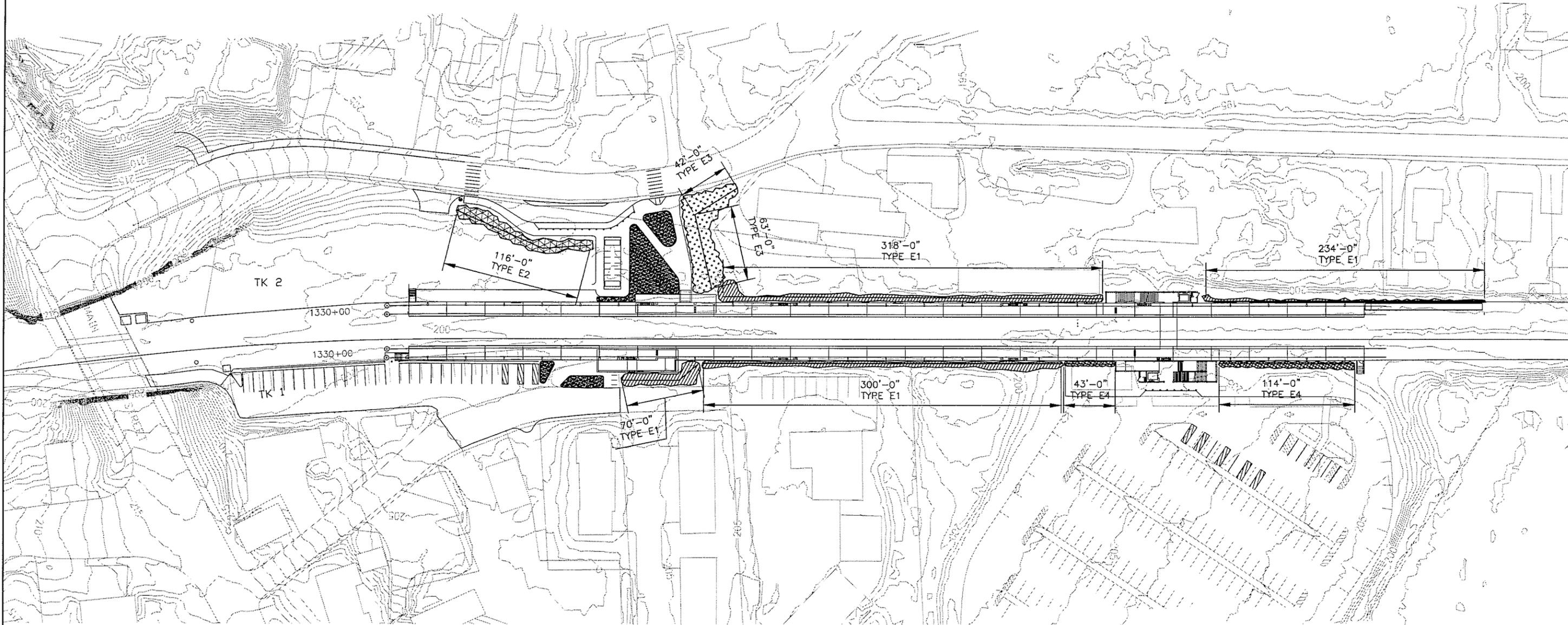
60% SUBMITTAL
 NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION BENCH DETAILS	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-4000		DATE: 09/30/2010	
Lozano, Baskin, and Associates, Inc. Architecture • Urban Design • City Planning 205 Mt. Auburn St. Watertown, MA 02472		SHEET A-5.7 OF _____	

EAST TO
BOSTON



WEST TO
FITCHBURG
TOWN OF ACTON



FILE NAME: Z:\DwgFiles\0814 Fitchburg Main Line\0814.01_So. Acton Station\7.0 Design Development\7.2 60% Submission\3.5 Dwg Landscape\ A-LA001.dwg
PLOT DATE: Sep 22, 2010 - 9:31am

NOTES:
1. SEE A11.2 FOR DETAILS OF MODULES.

60% SUBMITTAL
NOT FOR CONSTRUCTION

LEGEND:

-  MODULE E1 PERIPHERAL
-  MODULE E2 CIRCULATION
-  MODULE E3 ENTRY ZONE
-  MODULE E4 PERIPHERAL
-  LOAM AND SEED



T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 FITCHBURG COMMUTER RAIL LINE
 IMPROVEMENT PROJECT
 CONTRACT NO. G67PS01
 SOUTH ACTON STATION
 LANDSCAPE PLAN

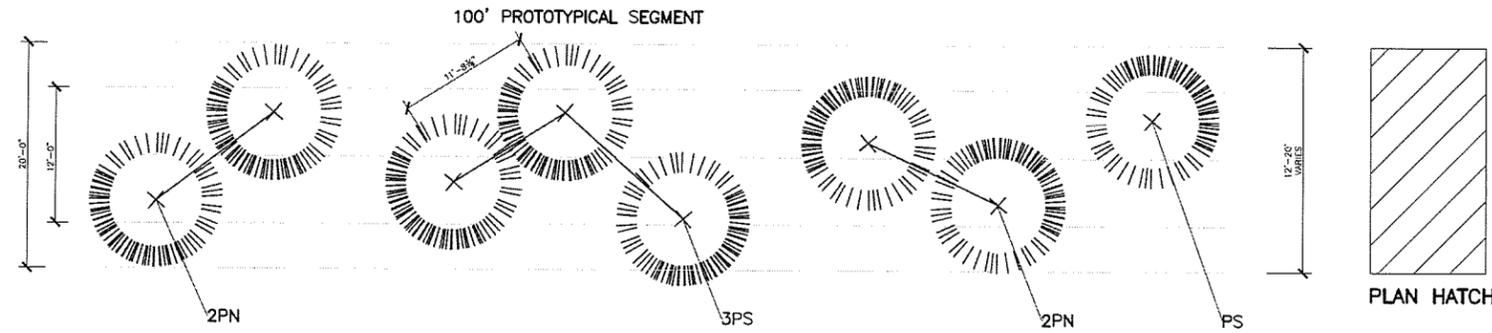
HNTB 300 APOLLO DRIVE
 CHELSEA, MA 01824
 (978) 905-4000

APPROVED BY: _____
 DIRECTOR OF OPERATIONS SUPPORT

Lozano, Baskin, and Associates, Inc.
 Architecture • Urban Design • City Planning
 205 Mt. Auburn St. Watertown, MA 02472

PROJECT MANAGER	DATE	DESIGNED BY	DATE	DATE
HORIZ: 1" = 40'	DATE: 09/30/2010	XX	MB	MB
PLAN NO.	SHEET A-11.1 of			

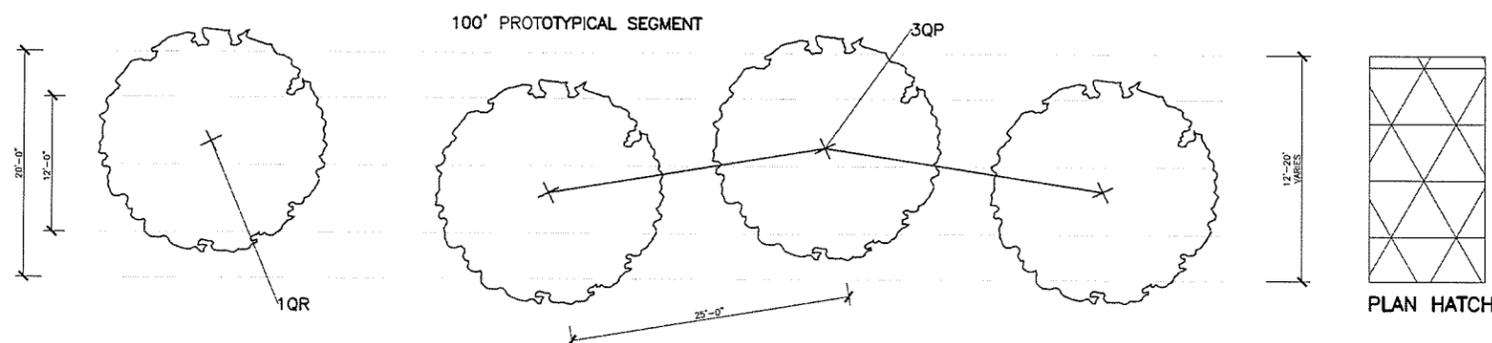
FILE NAME: Z:\DwgFiles\0814 Fitchburg Main Line\0814.01_So. Acton Station\7.0 Design Development\7.2 60% Submission\3.5 Dwg Landscape\ A-LA0002.dwg
 PLOT DATE: Sep 22, 2010 9:31am



MODULE E1:
PERIPHERAL AREA TREES **(A)**
 NTS A-11.2

LEGEND

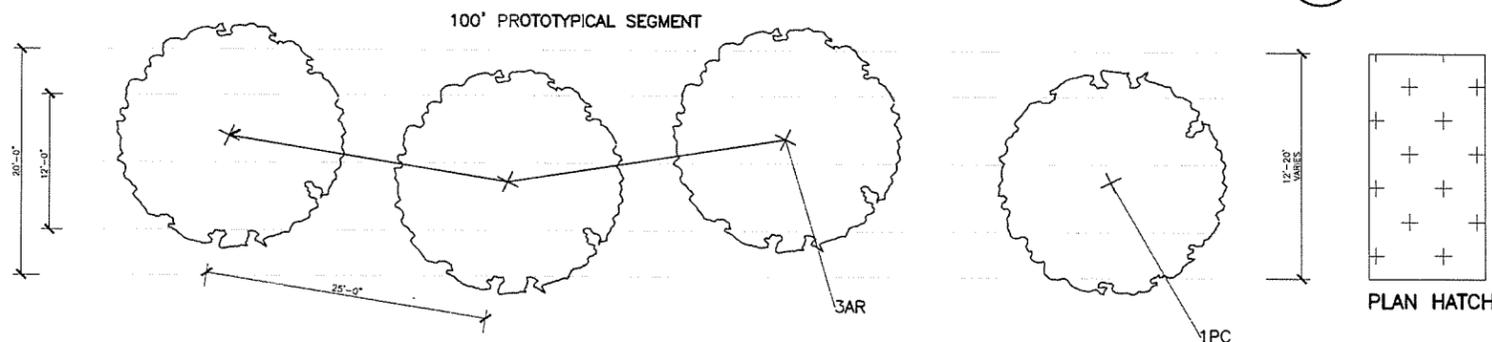
	PROPOSED DECIDUOUS TREE	A/B L-2
	PROPOSED EVERGREEN TREE	C/D L-2
	PROPOSED SHRUB	E/F L-2
	PROPOSED DECIDUOUS OR EVERGREEN SHRUB	E/F L-2



MODULE E2:
GENERAL CIRCULATION TREES **(B)**
 NTS A-11.2

PLANT SCHEDULE

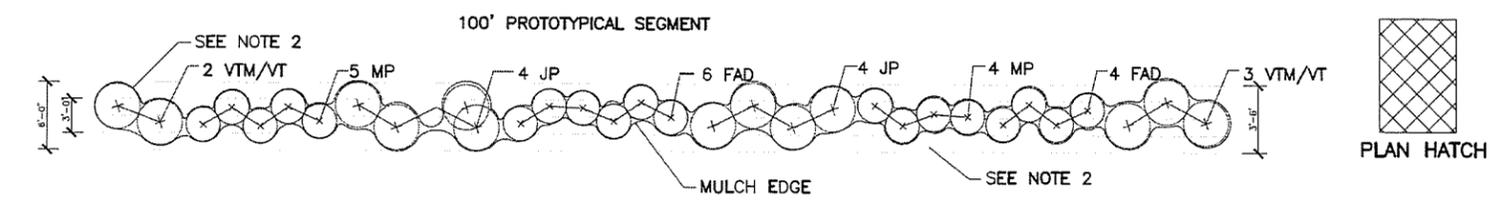
SYMBOL	QTY	SCIENTIFIC NAME	COMMON NAME	BASE BID SIZE	COMMENTS
AR		<i>Acer rubrum</i>	Red Maple	4" cal.	B&B
PC		<i>Pyrus calleryana</i>	Bradford Pear	4" cal.	B&B
PS		<i>Pinus strobus</i>	White Pine	3"-3 1/2" cal.	B&B
PN		<i>Pinus nigra</i>	Austrian Pine	6' ht.	B&B
TD		<i>Taxus media densiformis</i>	Densiform Yew	2 1/2'-3' Sprd	B&B
QP		<i>Quercus palustris</i>	Pin Oak	1 1/2"-2" cal.	B&B
QR		<i>Quercus rubra</i>	Red Oak	1 1/2"-2" cal.	B&B



MODULE E3:
STATION ENTRY ZONE TREES **(C)**
 NTS A-11.2

PLANT SCHEDULE

SYMBOL	QTY	SCIENTIFIC NAME	COMMON NAME	BASE BID SIZE	SPACING	COMMENTS
FAD		<i>Forsythia x 'Arnold Dwarf'</i>	Arnold Dwarf Forsythia	2' ht.	3' O.C.	CG
JP		<i>Juniperus chinensis 'Pfitzeriana'</i>	Pfitzer Juniper	2' ht.	4' O.C.	CG
MP		<i>Myrica pensylvanica</i>	Northern Bayberry	2' ht.	3' O.C.	CG
VTM		<i>Viburnum plicatum tomentosum 'Mariesi'</i>	Doublefile Viburnum	2' ht.	4' O.C.	CG
VT		<i>Viburnum trilobum</i>	American Cranberrybush	2' ht.	4' O.C.	CG
VC		<i>Vaccinium corymbosum 'Northland'</i>	Highbush Blueberry	2' ht.	3' O.C.	CG



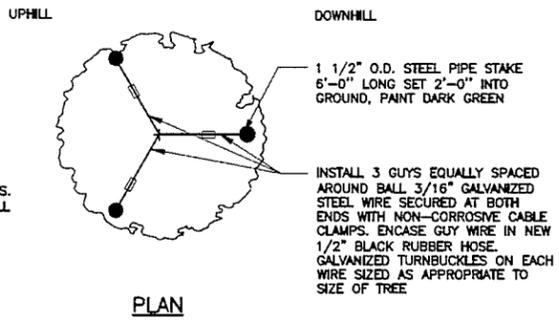
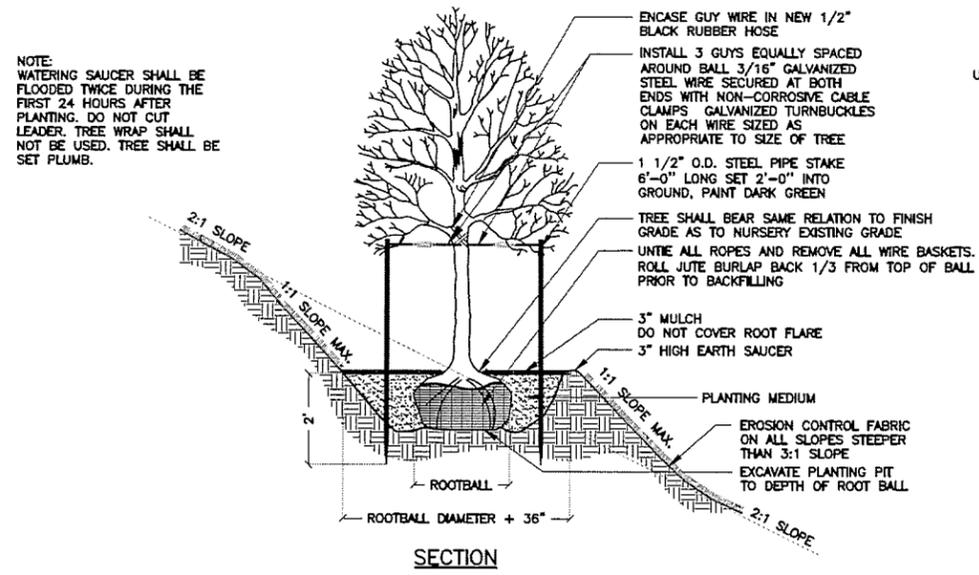
MODULE E4:
SHRUB PLANTING **(D)**
 NTS A-11.2

- NOTES:**
1. PROVIDE 3" OF AGED PINE BARK MULCH AROUND THE BASE OF THE TREE/SHRUB AND LOAM AND SEED DISTURBED AREAS PER MBTA STANDARD SPECIFICATIONS - SECTION 02485.
 2. UNDISTURBED AREAS OUTSIDE OF THE MULCH AREA SHALL BE LEFT NATURALLY VEGETATED.
 3. PROVIDE LOAM AND SEED AS INDICATED ON DRAWING AND AS REQUIRED BY MBTA STANDARD SPECIFICATIONS - SECTION 02485.
 4. AREAS DISTURBED BY CONSTRUCTION SHALL BE LOAMED AND SEEDED AS REQUIRED FOR FINISHED GRADE SLOPES IN ACCORDANCE WITH MBTA STANDARD SPECIFICATIONS - SECTION 02485.
 5. SEE A-11.3 FOR PLANTING DETAILS.

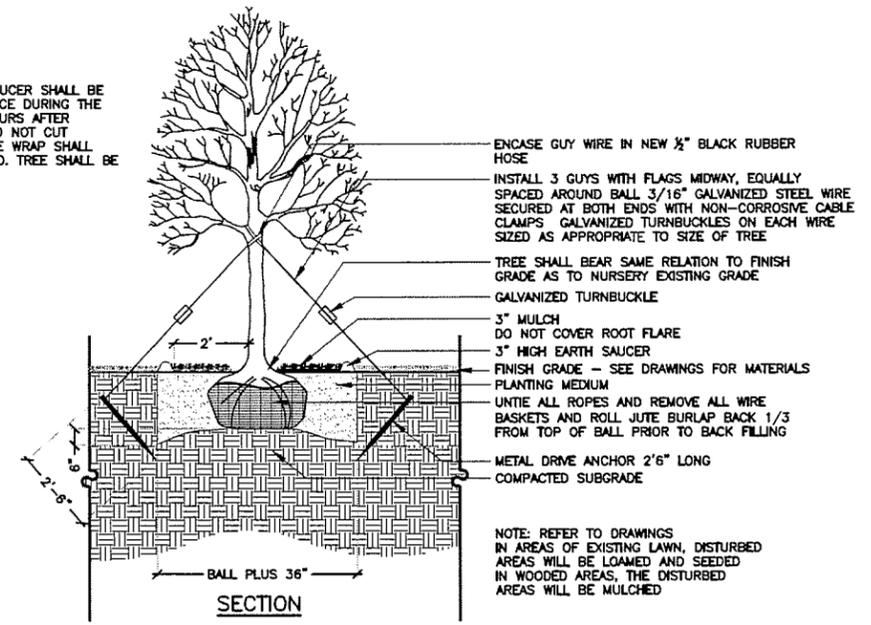
60% SUBMITTAL
 NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION LANDSCAPE MODULES	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER DATE: 09/30/2010		DATE: 09/30/2010	
Lozano, Baskin, and Associates, Inc. Architecture+Urban Design+City Planning 6 Bennett Street Cambridge, MA 02138		PLAN NO. _____ SHEET A-11.2 OF _____	

FILE NAME: Z:\DwgFiles\0814 Fitchburg Main Line\0814.01_So. Acton Station\7.0 Design Development\7.2 60% Submittal\3.5 Dwg\Landscap\A-11.3.dwg
 PLOT DATE: Sep 22, 2010 - 9:30am



NOTE: WATERING SAUCER SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING. DO NOT CUT LEADER. TREE WRAP SHALL NOT BE USED. TREE SHALL BE SET PLUMB.

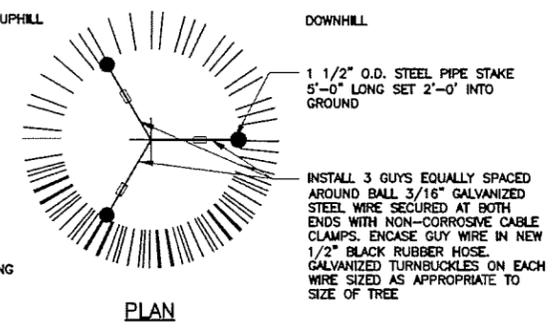
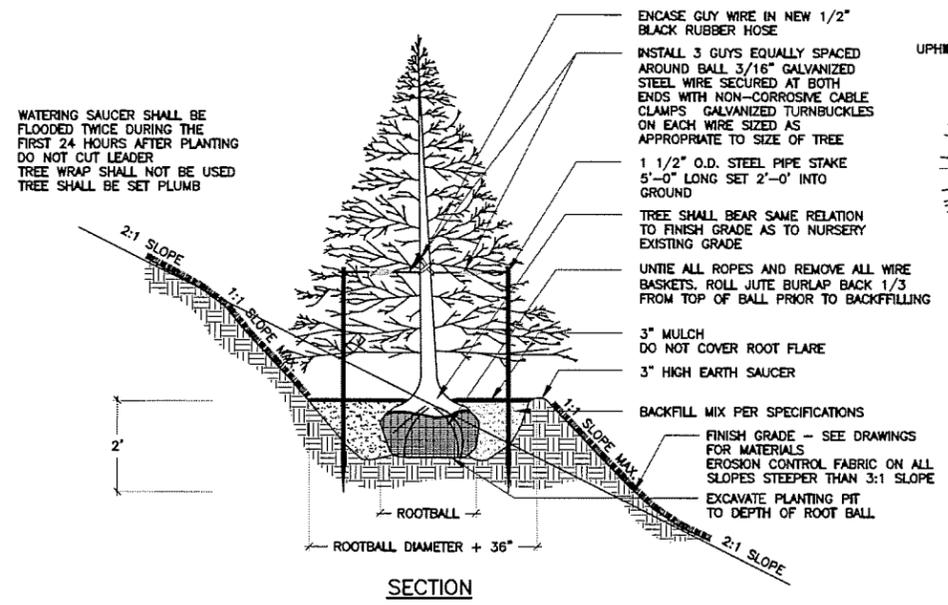


DECIDUOUS TREE PLANTING ON A SLOPE
NTS

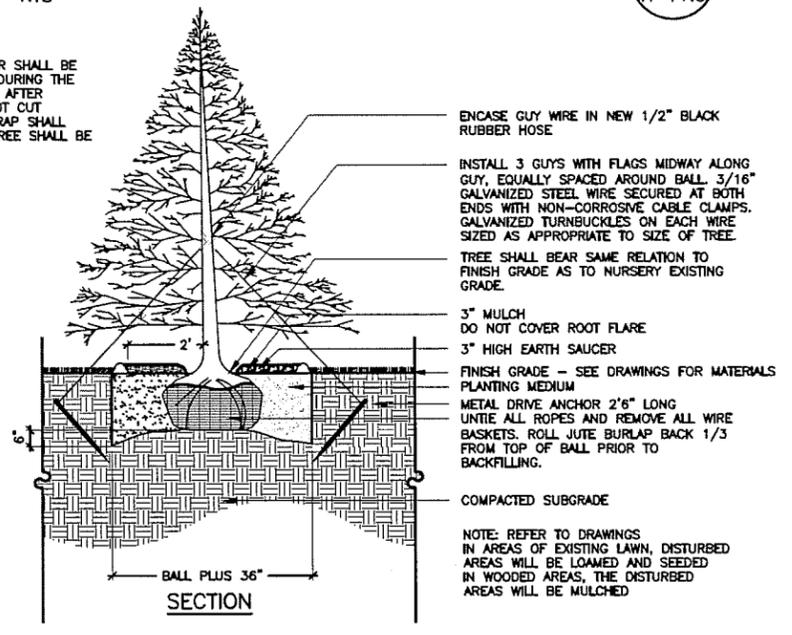
A
A-11.3

DECIDUOUS TREE PLANTING
NTS

B
A-11.3



NOTE: WATERING SAUCER SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING. DO NOT CUT LEADER. TREE WRAP SHALL NOT BE USED. TREE SHALL BE SET PLUMB.

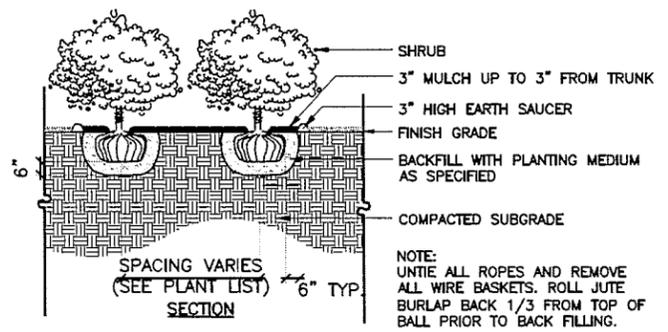
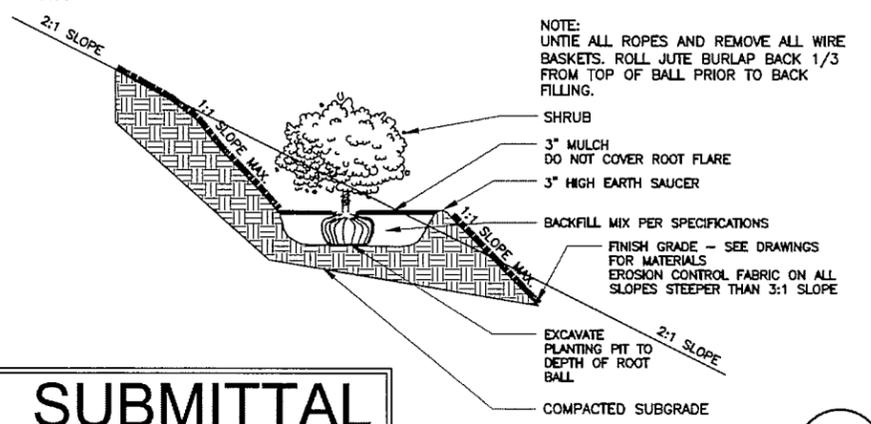


EVERGREEN TREE PLANTING ON A SLOPE
NTS

C
A-11.3

EVERGREEN TREE PLANTING
NTS

D
A-11.3



SHRUB PLANTING
NTS

F
A-11.3

SHRUB PLANTING
NTS

E
A-11.3

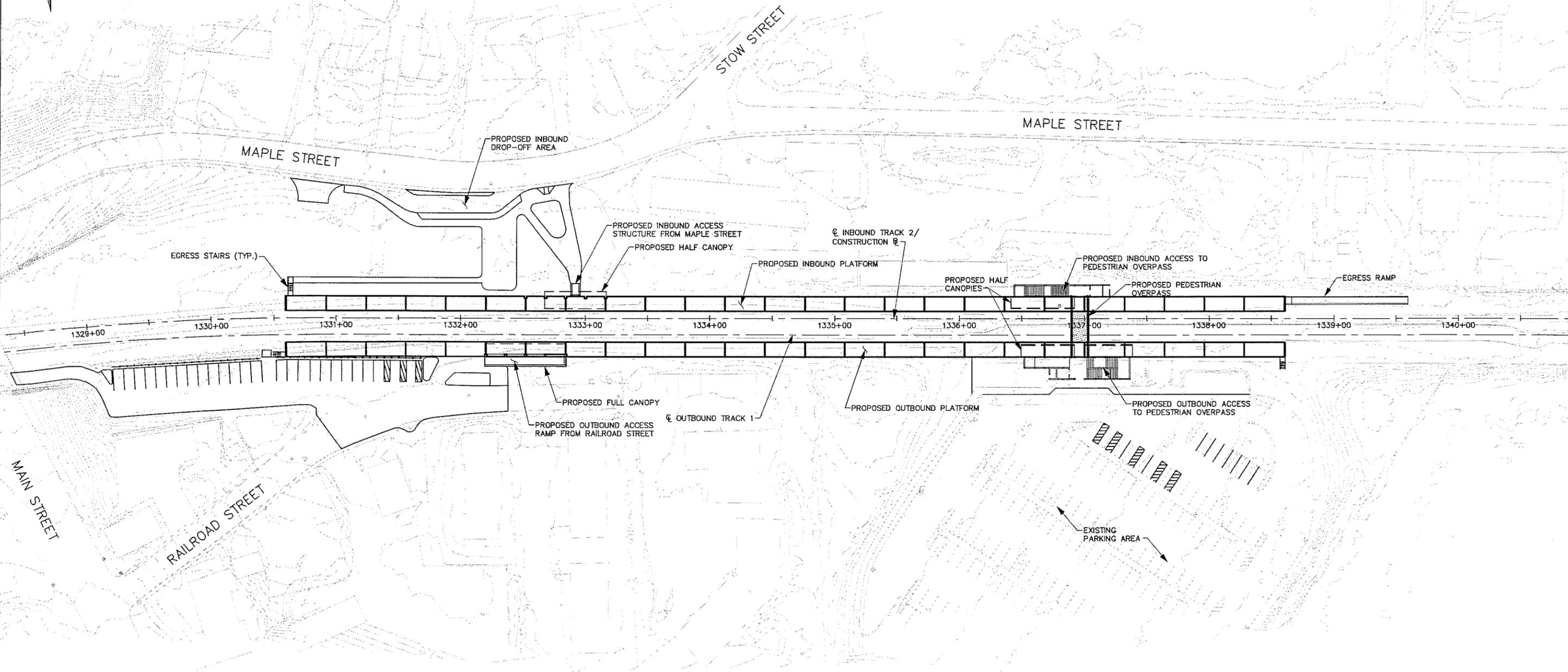
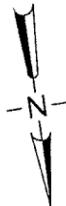
60% SUBMITTAL
NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION LANDSCAPE DETAILS	
		300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-4000	
APPROVED BY:		DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER		DATE	
HORIZ: NTS VERT:		DEL. BY: XX DR. BY: MB CHK. BY: MB	
DATE: 09/30/2010		PLAN NO. SHEET A-11.3 OF	

Lozano, Baskin, and Associates, Inc.
 Architecture+Urban Design+City Planning
 6 Bennett Street Cambridge, MA 02138

EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF SOUTH ACTON

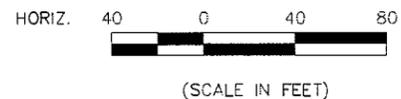


PLAN

NOTES:

- 1. FOR GENERAL NOTES, SEE SHEET S-100.

60% SUBMITTAL
NOT FOR CONSTRUCTION



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 FITCHBURG COMMUTER RAIL LINE
 IMPROVEMENT PROJECT
 CONTRACT NO. G67PS01
**SOUTH ACTON STATION
 KEY PLAN**



300 APOLLO DRIVE
 CHELSEA, MA 02124
 (978) 905-4000

MASSACHUSETTS BAY TRANSPORTATION
 AUTHORITY

APPROVED BY:

DIRECTOR OF OPERATIONS SUPPORT

DATE	DESCRIPTION	BY	CHKD.	APP.



343 CONGRESS STREET
 BOSTON, MA 02110
 (617) 242-9222

PROJECT MANAGER
 HORIZ: 1" = 40'
 VERT: N/A
 DATE: 09/30/10

DES. BY: JAG
 DR. BY: JAG
 CHK. BY: MWT

PLAN NO.
 SHEET S-101 OF

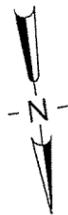
ISSUE



FILE NAME: \\BOSF111\Data2\NAI_proj\MBTA\2008\E2\37800\CAD\700CAD00\702STATIONS\South Acton\Structural\60% Submission\101_Key_Plan.dwg
 PLOT DATE: Sep 22, 2010 - 8:05am

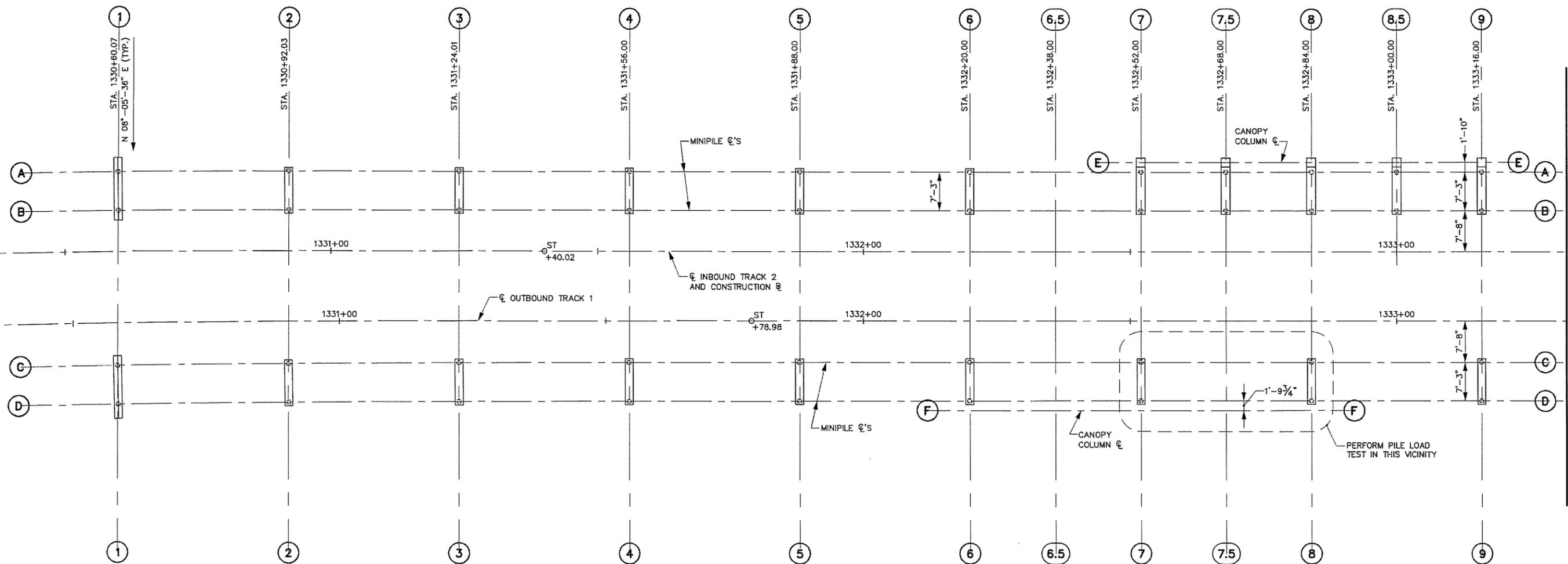
EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF SOUTH ACTON



NOTES:

1. FOR GENERAL NOTES, SEE SHEET S-100.
2. FOR PLATFORM LAYOUT PLANS, SEE SHEETS S-105 THROUGH S-107.
3. FOR MINIPILE AND PIER CAP DETAILS, SEE SHEETS S-108 THROUGH S-110.
4. FOR PRECAST PANEL DETAILS, SEE SHEETS S-111 THROUGH S-113.
5. FOR SITE UTILITIES SEE UTILITY AND ELECTRICAL SHEETS.



MATCH LINE: FOR CONTINUATION SEE SHEET S-103

MINIPILE LOCATION TABLE

NOTE: THE FOLLOWING MINIPILES DO NOT LIE ON COLUMN LINE INTERSECTIONS.

MINIPILE	NORTHING	EASTING
1-A	668186.1555	2992681.0533
2-A	668154.4007	2992685.2874
1-D	668192.0524	2992724.0732
2-D	668160.3321	2992728.1089
3-D	668128.6689	2992732.3647

FOUNDATION PLAN

SCALE: 1" = 10'-0"

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NOT FOR CONSTRUCTION



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
FITCHBURG COMMUTER RAIL LINE
IMPROVEMENT PROJECT
CONTRACT NO. G67PS01

SOUTH ACTON STATION
FOUNDATION PLAN
SHEET 1



300 APOLLO DRIVE
CHELSEA, MA 01824
(978) 905-4000

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT MANAGER	DATE	DIRECTOR OF OPERATIONS SUPPORT	DATE



343 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222

HORIZ: AS NOTED
VERT: N/A
DATE: 09/30/10

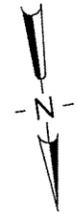
DES. BY: JAG
DR. BY: JAG
CHK. BY: MWT

PLAN NO.
SHEET S-102 OF

FILE NAME: \\BOSF111\proj\proj\MBTA\2008\E2X37800\CAD\700CAD00\702STATIONS\South Acton\Structural\60% Submission\102-104_Found_Layout.dwg
PLOT DATE: Sep 22, 2010 - 8:07am

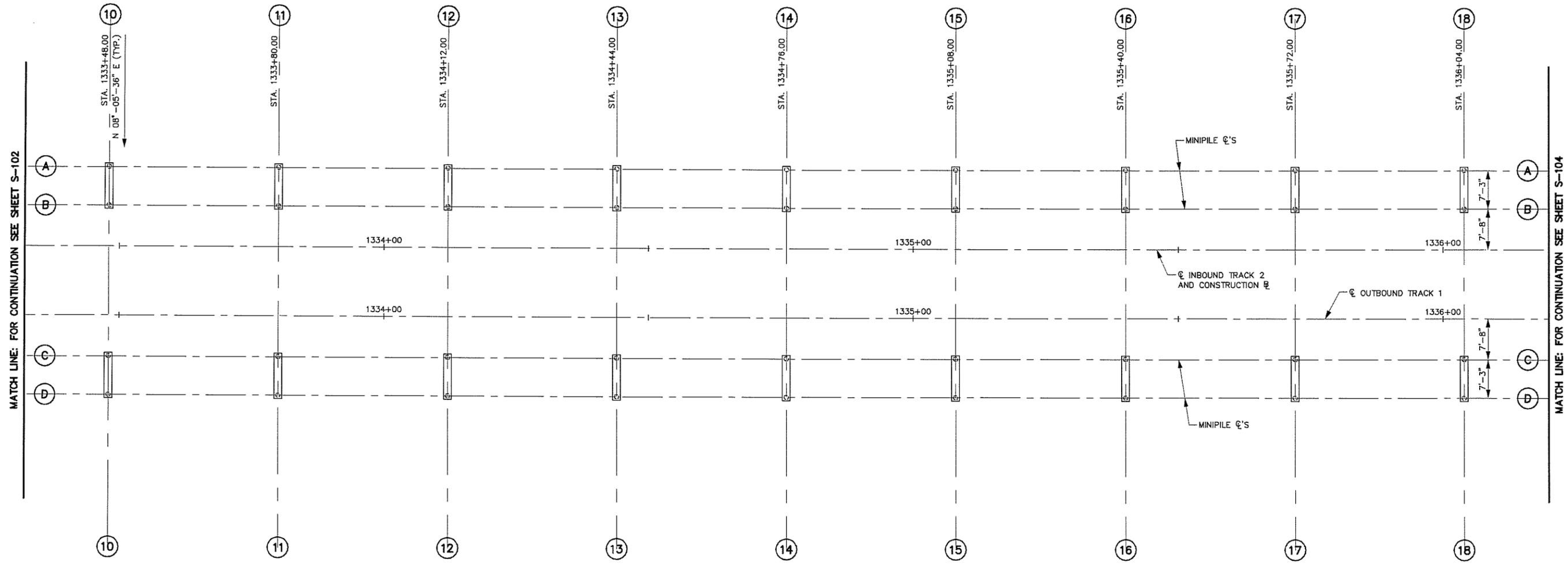
EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF SOUTH ACTON



NOTES:

1. FOR GENERAL NOTES, SEE SHEET S-100.
2. FOR PLATFORM LAYOUT PLANS, SEE SHEETS S-105 THROUGH S-107.
3. FOR MINIPILE AND PIER CAP DETAILS, SEE SHEETS S-108 THROUGH S-110.
4. FOR PRECAST PANEL DETAILS, SEE SHEETS S-111 THROUGH S-113.
5. FOR SITE UTILITIES SEE UTILITY AND ELECTRICAL SHEETS.



FOUNDATION PLAN
SCALE: 1" = 10'-0"

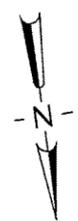
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PLOT DATE: Sep 22, 2010 - 8:08am

60% SUBMITTAL
NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION FOUNDATION PLAN SHEET 2	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
		PROJECT MANAGER: _____ DATE: 09/30/10	
HORIZ: AS NOTED VERT: N/A DATE: 09/30/10		DES. BY: JAG DR. BY: JAG CHK. BY: MWT	
345 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		PLAN NO. _____ SHEET S-103 OF _____	

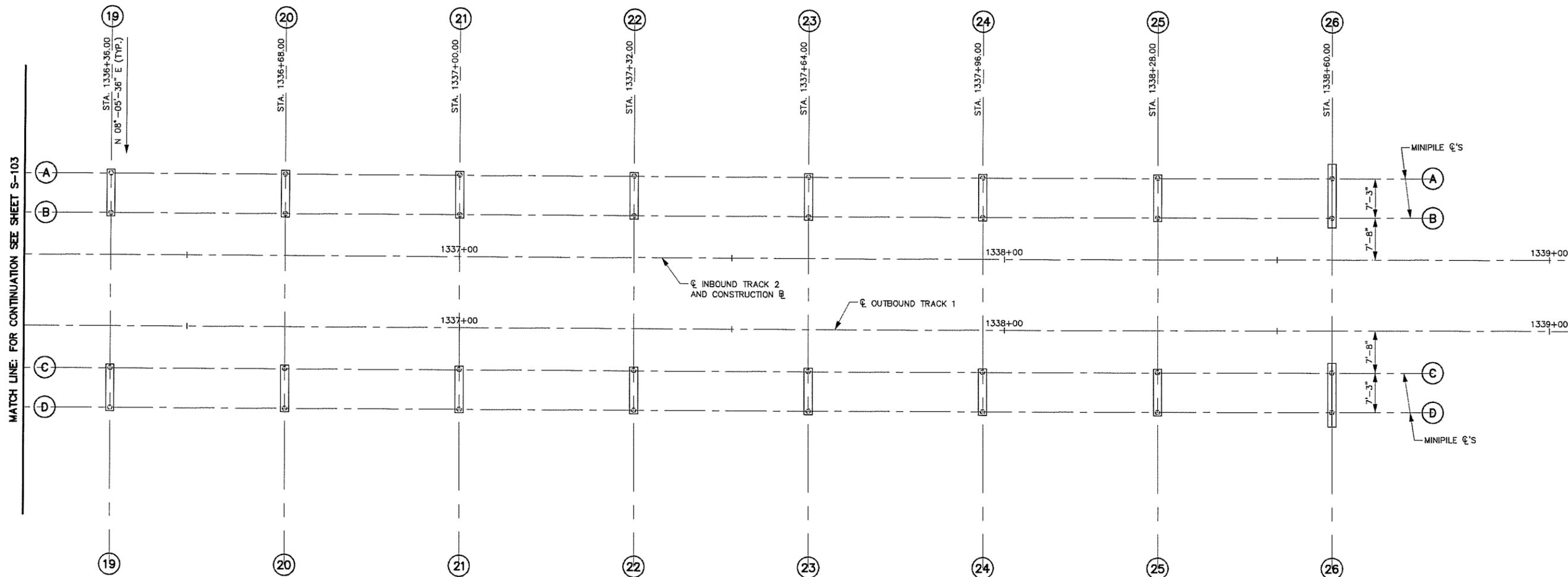
EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF SOUTH ACTON



NOTES:

1. FOR GENERAL NOTES, SEE SHEET S-100.
2. FOR PLATFORM LAYOUT PLANS, SEE SHEETS S-105 THROUGH S-107.
3. FOR MINIPILE AND PIER CAP DETAILS, SEE SHEETS S-108 THROUGH S-110.
4. FOR PRECAST PANEL DETAILS, SEE SHEETS S-111 THROUGH S-113.
5. FOR SITE UTILITIES SEE UTILITY AND ELECTRICAL SHEETS.



FOUNDATION PLAN
SCALE: 1" = 10'-0"

FILE NAME: \\BOSFIL111\Data2\NAI\proj\MBTA\2008\E2X37800\CAD\700CAD00\702STATIONS\South Acton\Structural\60% Submission\102-104_Found_Layout.dwg
PLOT DATE: Sep 22, 2010 - 8:08am

60% SUBMITTAL
NOT FOR CONSTRUCTION

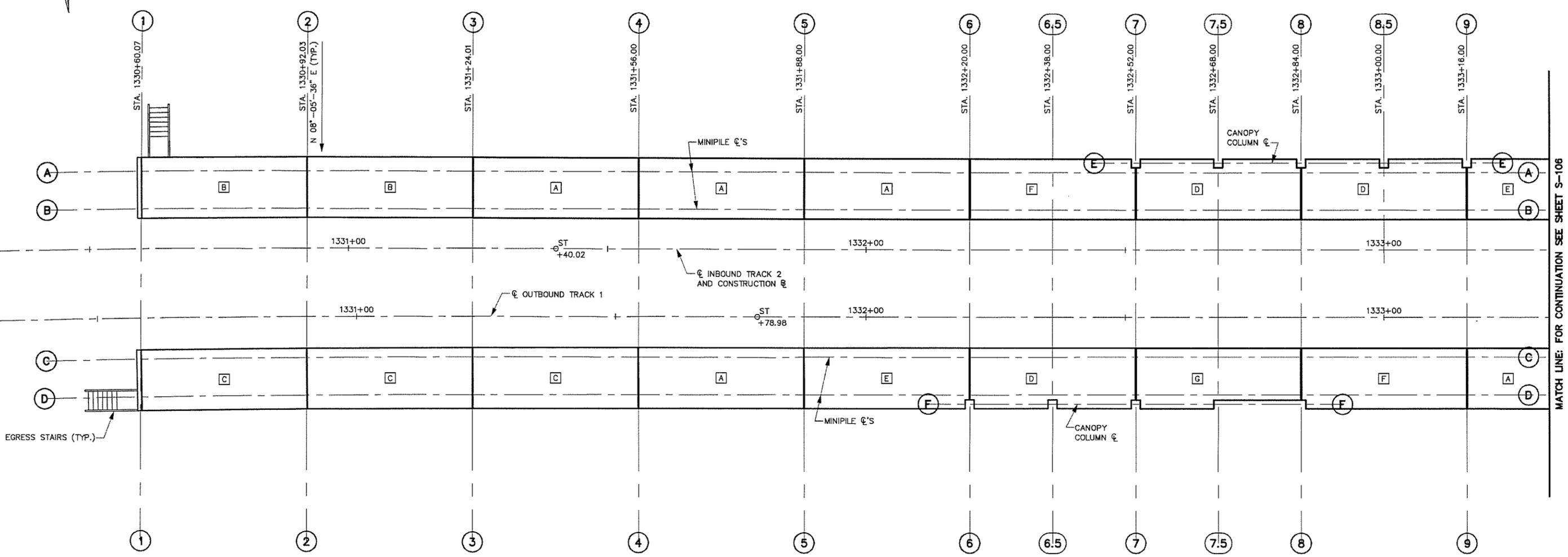
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		FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01																					
		SOUTH ACTON STATION FOUNDATION PLAN SHEET 3																					
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY																					
<table border="1"> <tr> <th>ISSUE</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>CHKD.</th> <th>APP.</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.							<table border="1"> <tr> <td>PROJECT MANAGER</td> <td>Date</td> <td>DIRECTOR OF OPERATIONS SUPPORT</td> <td>Date</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		PROJECT MANAGER	Date	DIRECTOR OF OPERATIONS SUPPORT	Date				
ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.																		
PROJECT MANAGER	Date	DIRECTOR OF OPERATIONS SUPPORT	Date																				
<table border="1"> <tr> <td>HORIZ: AS NOTED</td> <td>DES. BY</td> <td>DR. BY</td> <td>CHK. BY</td> </tr> <tr> <td>VERT: N/A</td> <td>JAG</td> <td>JAG</td> <td>MWT</td> </tr> <tr> <td>DATE: 09/30/10</td> <td colspan="3"> </td> </tr> </table>		HORIZ: AS NOTED	DES. BY	DR. BY	CHK. BY	VERT: N/A	JAG	JAG	MWT	DATE: 09/30/10				<table border="1"> <tr> <td>343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222</td> <td> <table border="1"> <tr> <td>APPROVED BY:</td> <td>Date</td> </tr> <tr> <td> </td> <td> </td> </tr> </table> </td> </tr> </table>		343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222	<table border="1"> <tr> <td>APPROVED BY:</td> <td>Date</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	APPROVED BY:	Date				
HORIZ: AS NOTED	DES. BY	DR. BY	CHK. BY																				
VERT: N/A	JAG	JAG	MWT																				
DATE: 09/30/10																							
343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222	<table border="1"> <tr> <td>APPROVED BY:</td> <td>Date</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	APPROVED BY:	Date																				
APPROVED BY:	Date																						
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PLAN NO.	ISSUE																						
SHEET S-104 OF																							

EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF SOUTH ACTON

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET S-100.
 - FOR FOUNDATION LAYOUT PLANS, SEE SHEETS S-102 THROUGH S-104.
 - FOR MINIPILE AND PIER CAP DETAILS, SEE SHEETS S-108 THROUGH S-110.
 - FOR PRECAST PANEL DETAILS, SEE SHEETS S-111 THROUGH S-113.

LEGEND:
A - PANEL TYPE LABEL

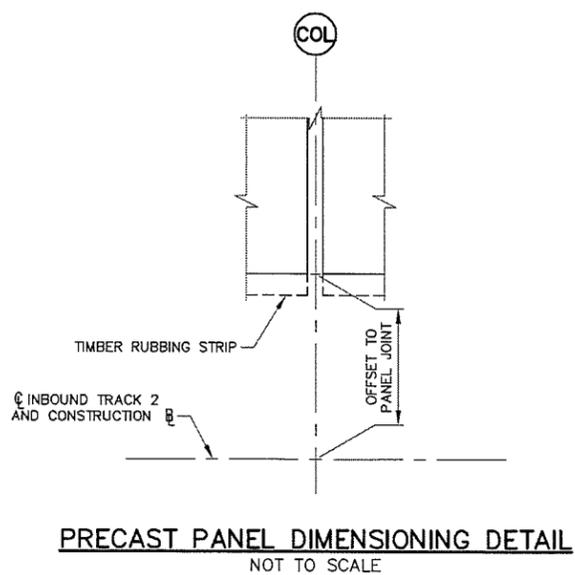


MATCH LINE: FOR CONTINUATION SEE SHEET S-106

PLATFORM LAYOUT PLAN
SCALE: 1" = 10'-0"

PRECAST PANEL OFFSET TABLE

COLUMN LINE	STATION	TRACK TO EDGE OF INBOUND PANEL	TRACK TO EDGE OF OUTBOUND PANEL
1	1330+60.07	5'-10 1/2" LT.	19'-5 3/8" RT.
2	1330+92.03	5'-10 1/2" LT.	19'-3 1/4" RT.
3	1331+24.01	5'-10 1/2" LT.	19'-1 1/2" RT.
4	1331+56.00	5'-10 1/2" LT.	18'-11 1/8" RT.
5	1331+88.00	5'-10 1/2" LT.	18'-11 3/8" RT.
6	1332+20.00	5'-10 1/2" LT.	18'-10 7/8" RT.
7	1332+52.00	5'-10 1/2" LT.	18'-10 1/2" RT.
8	1332+84.00	5'-10 1/2" LT.	18'-10 1/2" RT.
9	1333+16.00	5'-10 1/2" LT.	18'-10 1/2" RT.



PRECAST PANEL DIMENSIONING DETAIL
NOT TO SCALE

60% SUBMITTAL
NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION PLATFORM LAYOUT PLAN SHEET 1	
		300 APOLLO DRIVE CHELSEA, MA 02134 (978) 905-1000	
APPROVED BY:		DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER		DATE	
HORIZ: AS NOTED		DES. BY: JAG	
VERT: N/A		DR. BY: JAG	
DATE: 09/30/10		CHK. BY: MWT	
PLAN NO.		ISSUE	
SHEET S-105 OF			

FILE NAME: \\BOSFIL11\dot2\proj\MBTA\2008\2X37860\CAD\700CA00\702STATIONS\South Acton\Structural\60% Submittal\105-107_Plot_Layout.dwg
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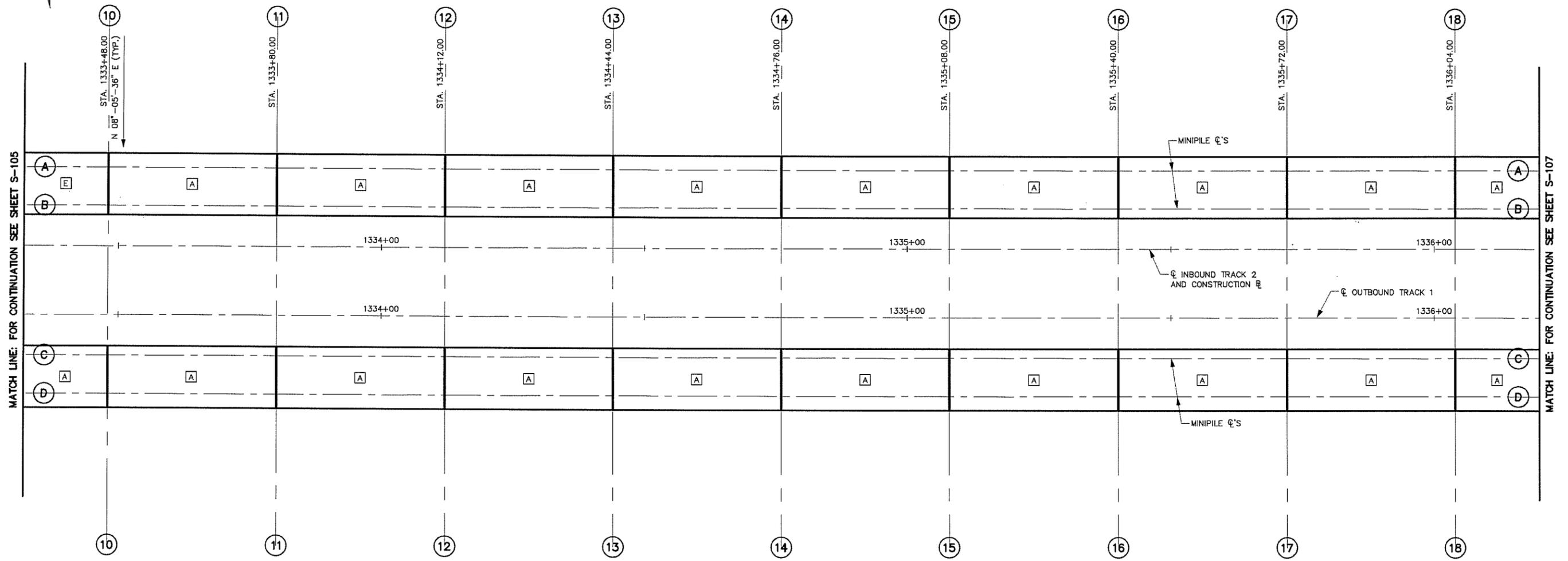
EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF SOUTH ACTON



- NOTES:**
- FOR GENERAL NOTES, SEE SHEET S-100.
 - FOR FOUNDATION LAYOUT PLANS, SEE SHEETS S-102 THROUGH S-104.
 - FOR MINIPILE AND PIER CAP DETAILS, SEE SHEETS S-108 THROUGH S-110.
 - FOR PRECAST PANEL DETAILS, SEE SHEETS S-111 THROUGH S-113.

LEGEND:
A - PANEL TYPE LABEL



PRECAST PANEL OFFSET TABLE

COLUMN LINE	STATION	☉ TRACK TO EDGE OF INBOUND PANEL	☉ TRACK TO EDGE OF OUTBOUND PANEL
10	1333+48.00	5'-10½" LT.	18'-10½" RT.
11	1333+80.00	5'-10½" LT.	18'-10½" RT.
12	1334+12.00	5'-10½" LT.	18'-10½" RT.
13	1334+44.00	5'-10½" LT.	18'-10½" RT.
14	1337+76.00	5'-10½" LT.	18'-10½" RT.
15	1335+08.00	5'-10½" LT.	18'-10½" RT.
16	1335+40.00	5'-10½" LT.	18'-10½" RT.
17	1335+72.00	5'-10½" LT.	18'-10½" RT.
18	1336+04.00	5'-10½" LT.	18'-10½" RT.

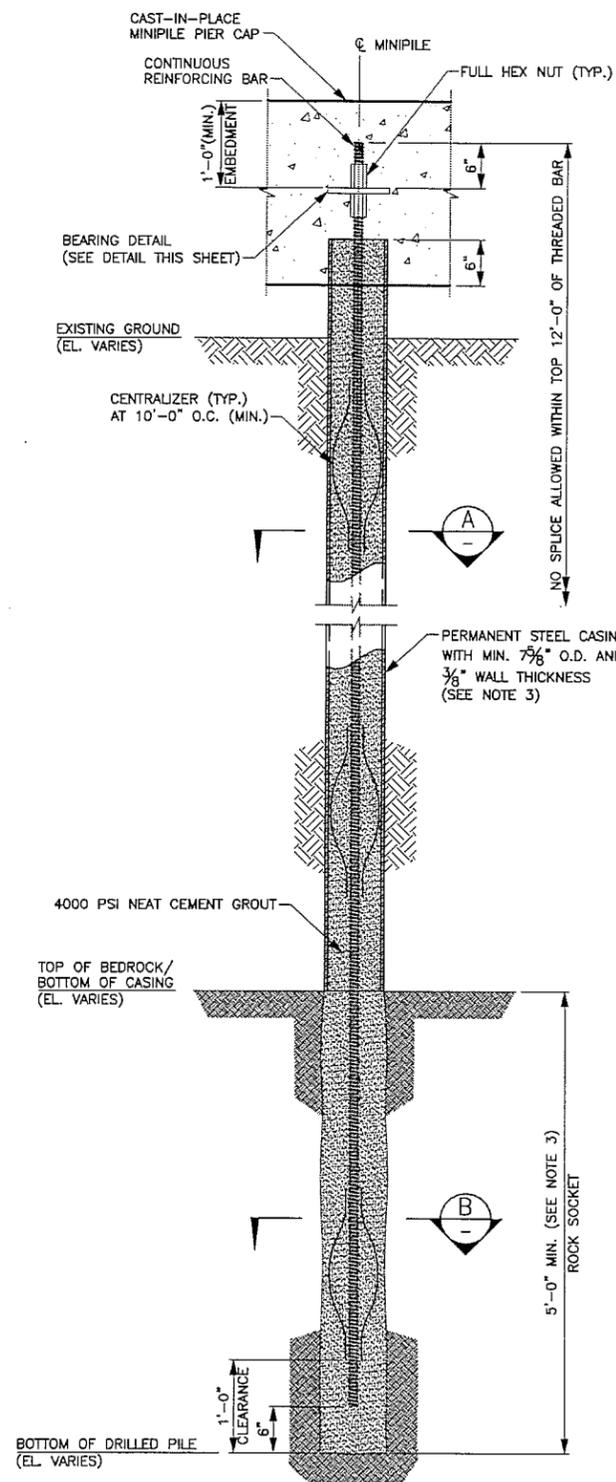
PLATFORM LAYOUT PLAN
 SCALE: 1" = 10'-0"

60% SUBMITTAL
 NOT FOR CONSTRUCTION

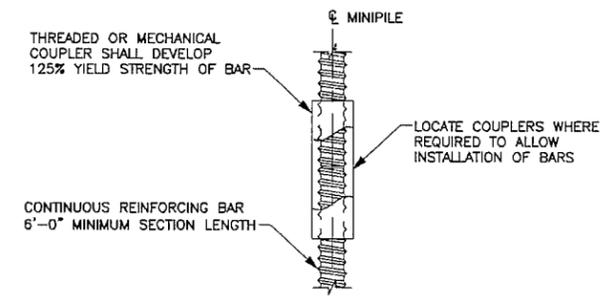
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		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION PLATFORM LAYOUT PLAN SHEET 2	
300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-4000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		PROJECT MANAGER HORIZ: AS NOTED VERT: N/A DATE: 09/30/10	DATE: _____ PLAN NO. SHEET S-106 OF _____

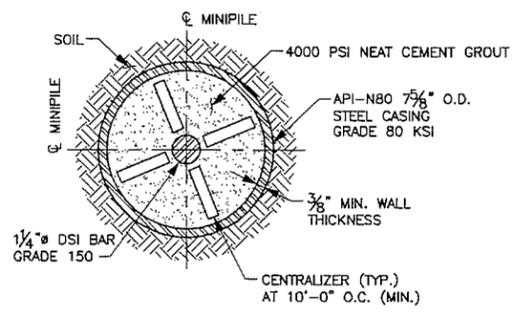
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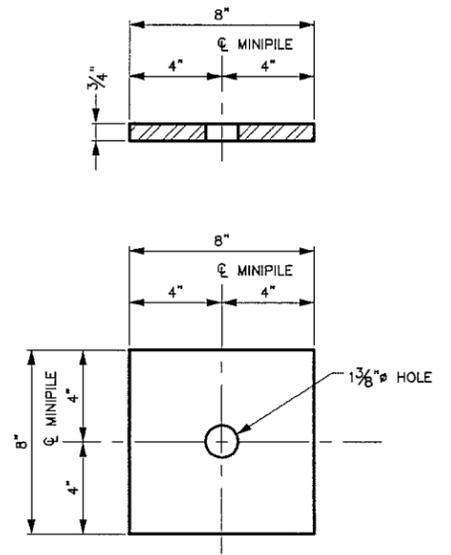
DRILLED MINIPILE ELEVATION DETAIL
 SCALE: 1" = 1'-0"



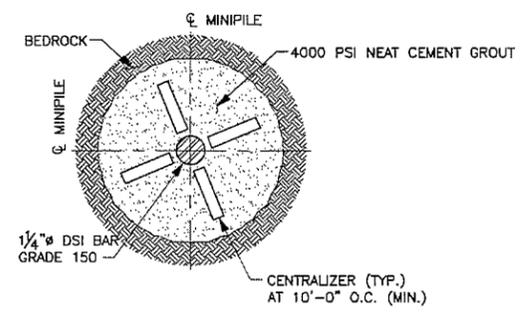
SPLICE DETAIL
 SCALE: 3" = 1'-0"



SECTION A
 SCALE: 3" = 1'-0"



BEARING PLATE DETAIL
 SCALE: 3" = 1'-0"



SECTION B
 SCALE: 3" = 1'-0"

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET S-100.
 - FOR COMPLETE PILE LOAD TEST PROCEDURE, SEE DESIGN SPECIFICATIONS.
 - A MINIMUM OF 10'-0" LONG STEEL CASING IS REQUIRED. FOR MINIPILES WITH LENGTH LESS THAN 10'-0" FROM GROUND SURFACE TO BEDROCK SURFACE, PERMANENT STEEL CASING SHALL BE EXTENDED INTO BEDROCK A MINIMUM OF 2'-0" AND ROCK SOCKET SHALL BE INCREASED ACCORDINGLY.

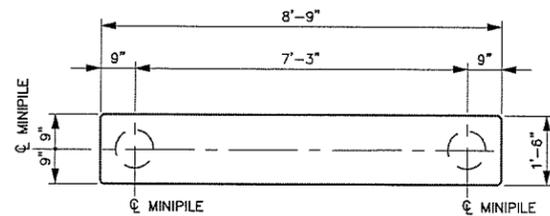
LOAD	HOLD TIME
0.05 DL MAX. (AL)	UNTIL MOVEMENT STABILIZES
0.25 DL	UNTIL MOVEMENT STABILIZES
0.50 DL	UNTIL MOVEMENT STABILIZES
0.75 DL	UNTIL MOVEMENT STABILIZES
1.00 DL	UNTIL MOVEMENT STABILIZES
1.25 DL	UNTIL MOVEMENT STABILIZES
1.50 DL	UNTIL MOVEMENT STABILIZES
1.75 DL	UNTIL MOVEMENT STABILIZES
2.00 DL (MAX. TEST LOAD)	CREEP TEST (SEE NOTE 2)
1.75 DL	15 MINUTES
1.50 DL	15 MINUTES
1.25 DL	15 MINUTES
1.00 DL	15 MINUTES
0.75 DL	15 MINUTES
0.50 DL	15 MINUTES
0.25 DL	15 MINUTES
0	UNTIL MOVEMENT STABILIZES

LOAD	HOLD TIME
0.05 DL MAX. (AL)	UNTIL MOVEMENT STABILIZES
0.25 DL	UNTIL MOVEMENT STABILIZES
0.50 DL	UNTIL MOVEMENT STABILIZES
0.75 DL	UNTIL MOVEMENT STABILIZES
1.00 DL	UNTIL MOVEMENT STABILIZES
1.25 DL	UNTIL MOVEMENT STABILIZES
1.33 DL (MAX. TEST LOAD)	CREEP TEST (SEE NOTE 2)
1.25 DL	15 MINUTES
1.00 DL	15 MINUTES
0.75 DL	15 MINUTES
0.50 DL	15 MINUTES
0.25 DL	15 MINUTES
0	UNTIL MOVEMENT STABILIZES

60% SUBMITTAL
 NOT FOR CONSTRUCTION

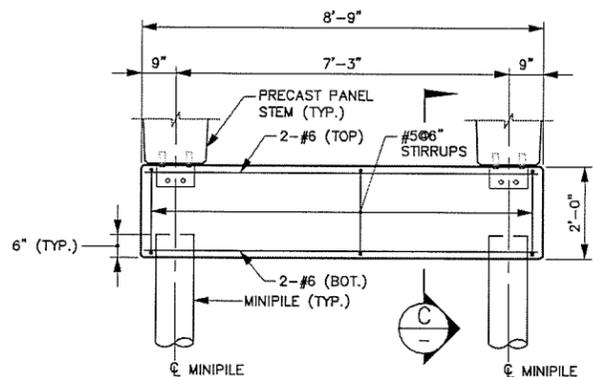
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION MINIPILE DETAILS	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
		300 APOLLO DRIVE CHELSEA, MA 02124 (978) 905-6000	
PROJECT MANAGER: _____ DATE: 09/30/10		HORIZ: AS NOTED VERT: AS NOTED DATE: 09/30/10	
543 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		JAG JAG MWT SHEET S-108 OF _____	

FILE NAME: \\BOSFIL11\Dat02\NAL_proj\MBTA\2008\E2X37B00\CAD\700CAD\702STATIONS\South Acton\Structural\60% Submission\108-110_PierCap_Dets.dwg
 PLOT DATE: Sep 22, 2010 - 8:18am



NOTE:
 PRECAST CONCRETE PLATFORM NOT SHOWN FOR CLARITY.

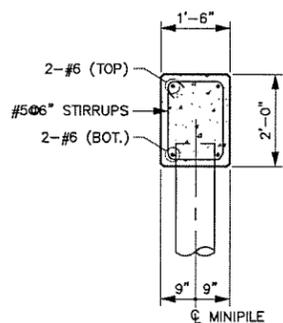
PLAN



ELEVATION

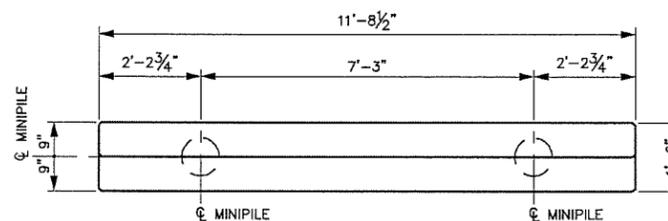
TYPICAL PIER CAP

SCALE: 1/2" = 1'-0"



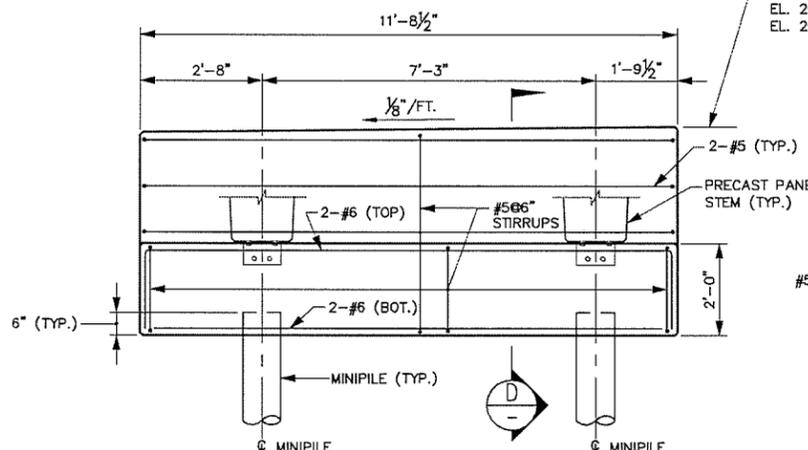
SECTION

SCALE: 1/2" = 1'-0"



NOTE:
 PRECAST CONCRETE PLATFORM NOT SHOWN FOR CLARITY.

PLAN



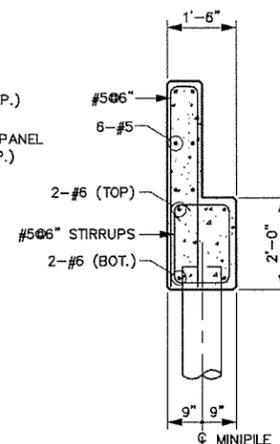
ELEVATION

TYPICAL END PIER CAP

SCALE: 1/2" = 1'-0"

NOTE:
 INBOUND COLUMN LINE 26 AND OUTBOUND COLUMN LINE 1 SHOWN.

EL. 204.37 COL. LINE 1 INBOUND)
 EL. 204.38 COL. LINE 1 OUTBOUND)
 EL. 207.33 COL. LINE 26 INBOUND)
 EL. 207.33 COL. LINE 26 OUTBOUND)



SECTION

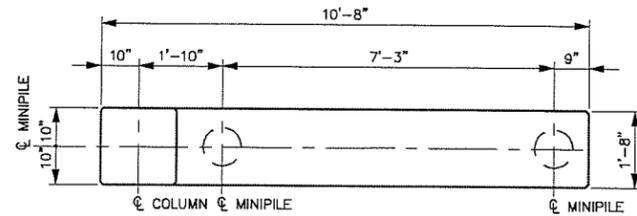
SCALE: 1/2" = 1'-0"



- NOTES:
1. FOR GENERAL NOTES, SEE SHEET S-100.
 2. FOR MINIPILE DETAILS, SEE SHEET S-108.
 3. FOR PLATFORM ANCHORAGE DETAILS, SEE SHEET S-113.

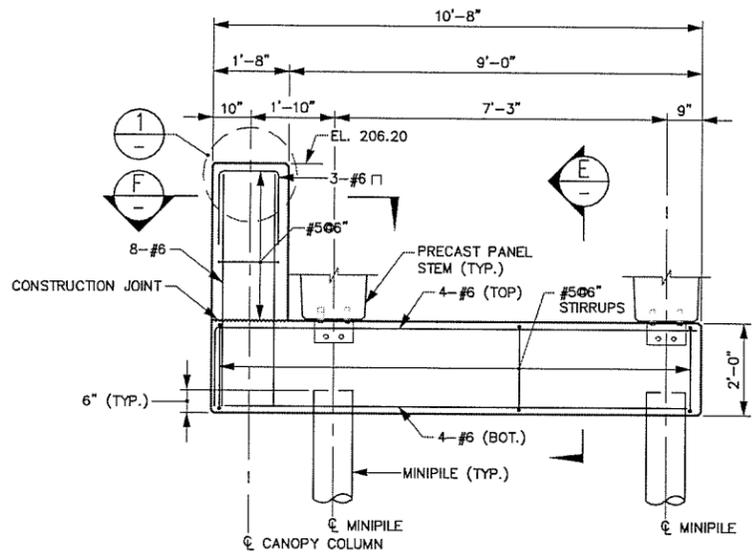
60% SUBMITTAL
 NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION PIER CAP DETAILS SHEET 1	
300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-6000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		PROJECT MANAGER HORIZ: AS NOTED VERT: AS NOTED DATE: 09/30/10	DATE DES. BY: JAG DR. BY: JAG CHK. BY: MWT
DATE: 09/30/10		PLAN NO. SHEET S-109 OF	ISSUE



NOTE:
PRECAST CONCRETE PLATFORM NOT SHOWN FOR CLARITY.

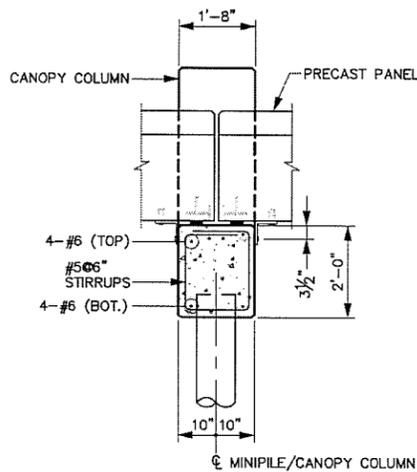
PLAN



ELEVATION

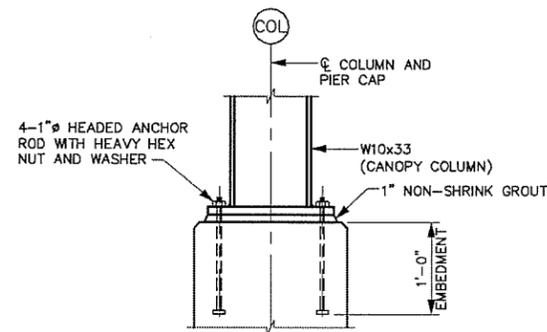
TYPICAL PIER CAP AT INBOUND CANOPY

SCALE: 1/2" = 1'-0"



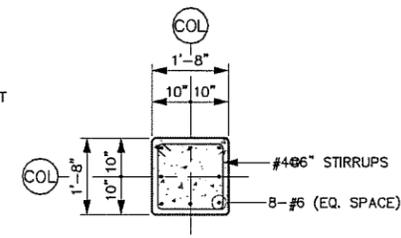
SECTION E-E

SCALE: 1/2" = 1'-0"



DETAIL 1-1

SCALE: 1/2" = 1'-0"



SECTION F-F

SCALE: 1/2" = 1'-0"

NOTES:

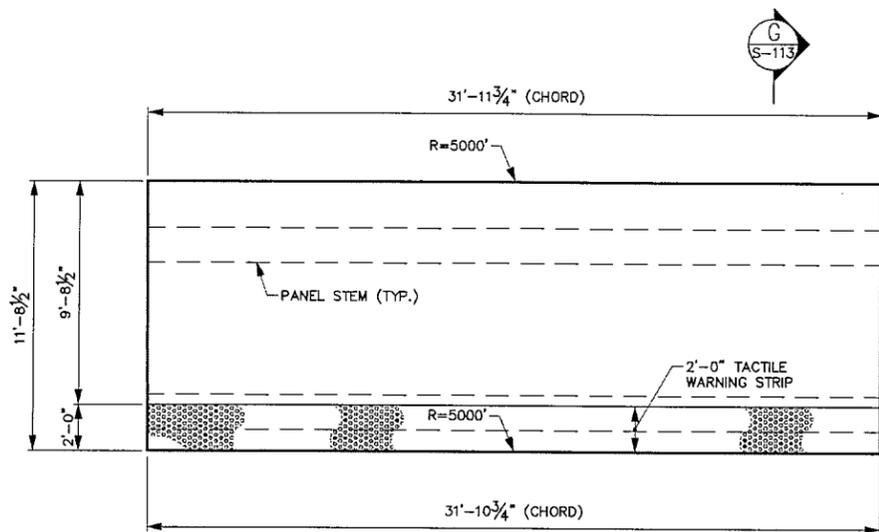
1. FOR GENERAL NOTES, SEE SHEET S-100.
2. FOR MINIPILE DETAILS, SEE SHEET S-108.
3. FOR PLATFORM ANCHORAGE DETAILS, SEE SHEET S-113.

FILE NAME: \\BOSFIL11\Dat2\MA\proj\MBTA\2008\EBX37800\CAD\700CA00\7025TATIONS\South Acton\Structural\60% Submission\108-110_PierCap_Details.dwg
PLOT DATE: Sep 22, 2010 - 8:19am

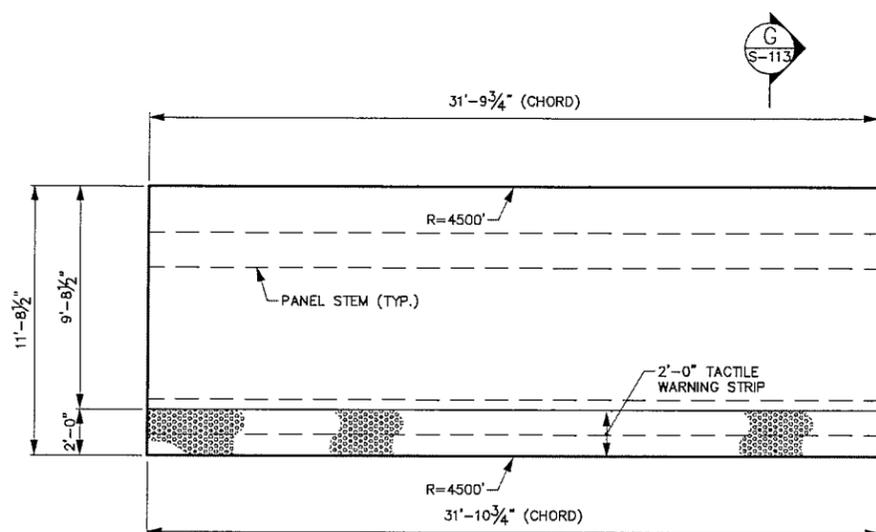
60% SUBMITTAL
NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01			
		SOUTH ACTON STATION PIER CAP DETAILS SHEET 2			
300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-4000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT			
		PROJECT MANAGER _____ DATE: 09/30/10		DATE: 09/30/10	
343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		HORIZ: AS NOTED VERT: AS NOTED DATE: 09/30/10		PLAN NO. _____ SHEET S-110 OF _____	

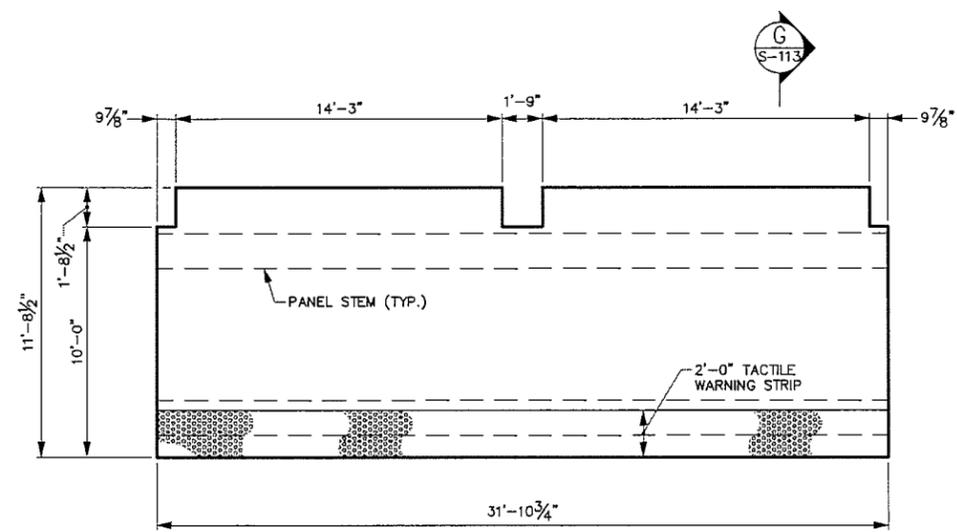
FILE NAME: \\BOSFIL11\Dat02\Nal_proj\MBTA\2008\EX237800\CAD\7000A0D\7025TATIONS\South Acton\Structural\60% Submission\111-112_Plat_Details.dwg
 PLOT DATE: Sep 22, 2010 - 8:20am



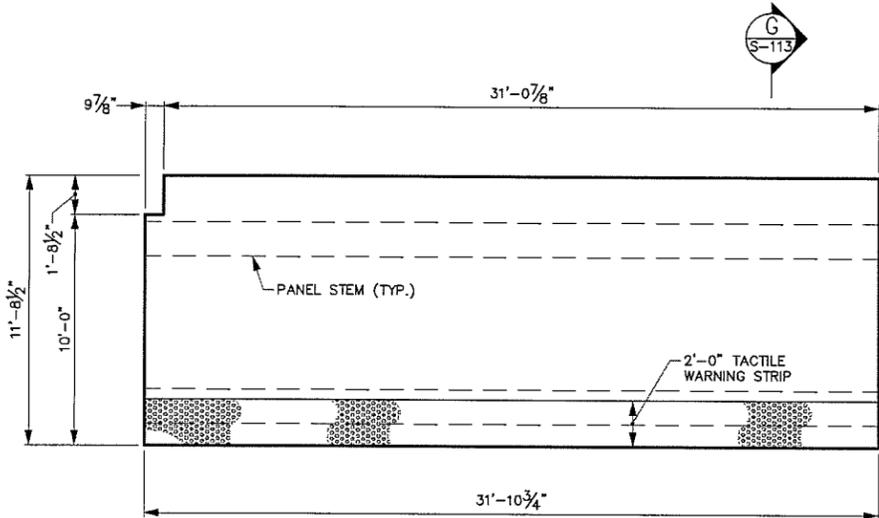
PANEL TYPE B
 SCALE: 1/4" = 1'-0"



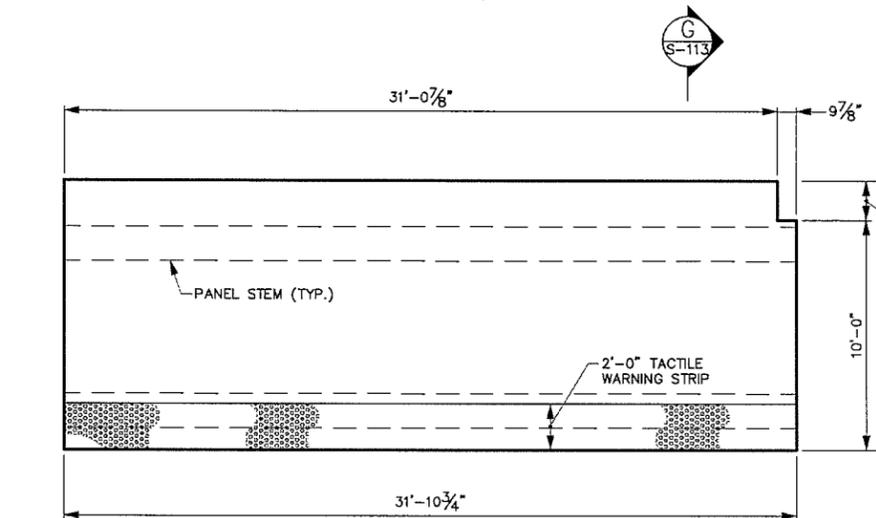
PANEL TYPE C
 SCALE: 1/4" = 1'-0"



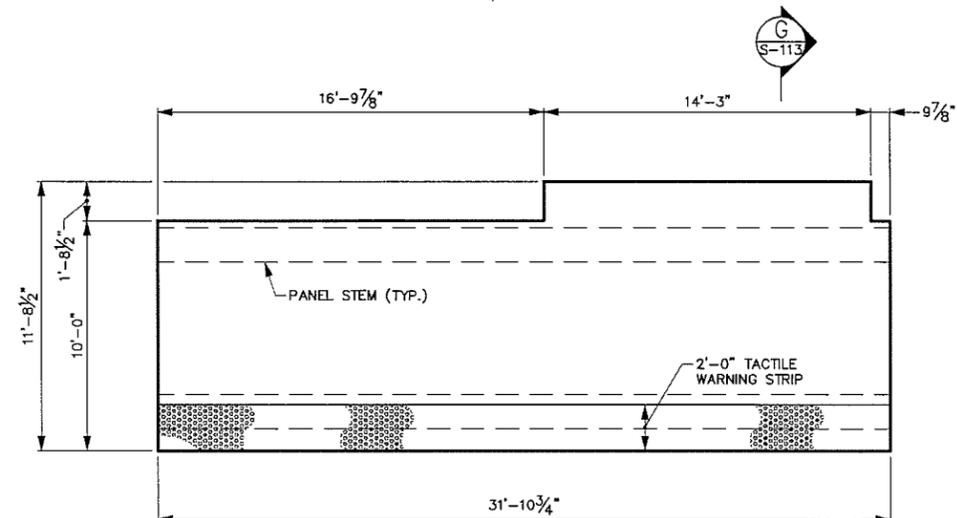
PANEL TYPE D
 SCALE: 1/4" = 1'-0"



PANEL TYPE E
 SCALE: 1/4" = 1'-0"



PANEL TYPE F
 SCALE: 1/4" = 1'-0"



PANEL TYPE G
 SCALE: 1/4" = 1'-0"

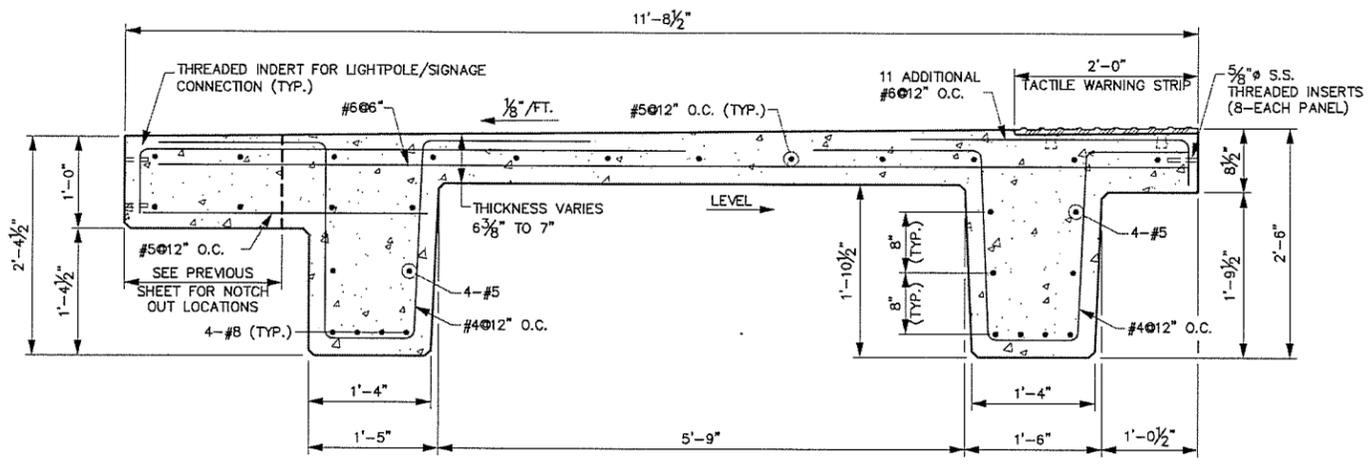
NOTES:

1. FOR GENERAL NOTES, SEE SHEET S-100.
2. FOR UTILITY LOCATIONS SEE CIVIL AND ELECTRICAL PLANS.
3. FOR MINIPILE AND PIER CAP DETAILS, SEE SHEETS S-108 THROUGH S-110.
4. FOR ADDITIONAL PRECAST PANEL DETAILS, SEE SHEETS S-111 AND S-113.
5. PLATFORM PANELS SHALL BE CAMBERED FOR SELFWEIGHT.

60% SUBMITTAL
 NOT FOR CONSTRUCTION

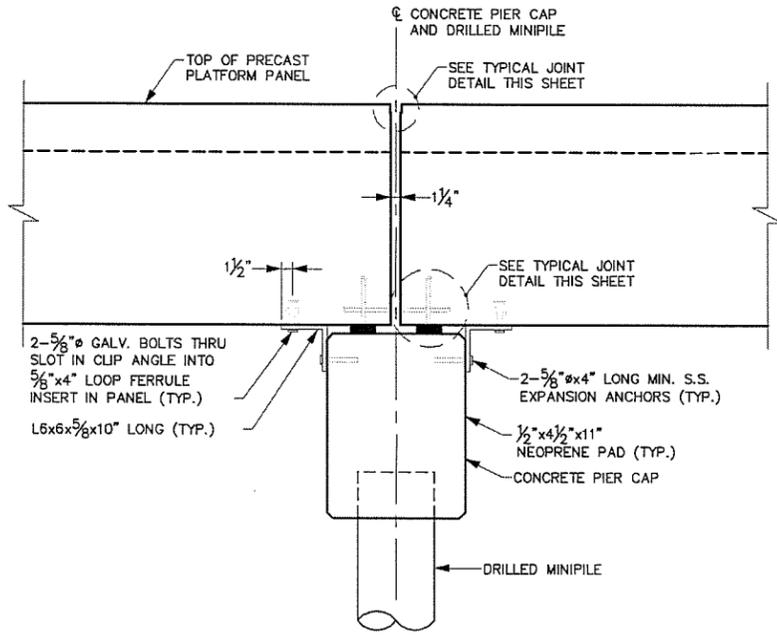
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION PRECAST PLATFORM PANEL DETAILS SHEET 2	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
		DATE: 09/30/10	

	343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222
--	---

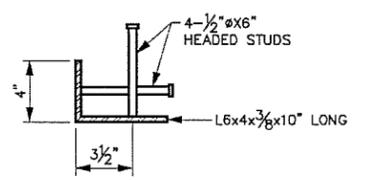


SECTION G
SCALE: 1" = 1'-0"

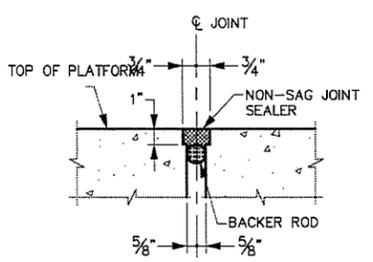
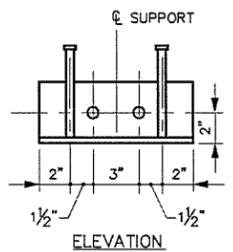
- NOTES:**
- FOR GENERAL NOTES, SEE SHEET S-100.
 - FOR UTILITY LOCATIONS, SEE CIVIL AND ELECTRICAL DRAWINGS.
 - FOR MINIPILE AND PIER CAP DETAILS, SEE SHEET S-108 THROUGH S-110.
 - FOR ADDITIONAL PRECAST CONCRETE PANEL DETAILS SEE SHEETS S-111 AND S-113.
 - CONTRACTOR SHALL COORDINATE TACTILE WARNING STRIP MANUFACTURER WITH PRECAST PANEL MANUFACTURER AND SUBMIT TO ENGINEER FOR APPROVAL.
 - TACTILE MANUFACTURER SHALL SUPPLY COMPLETED PANEL TO PRECAST PANEL MANUFACTURER FOR FIT PRIOR TO CASTING PRECAST PANELS.
 - PLATFORM PANELS TO BE CAMBERED FOR SELFWEIGHT.
 - COORDINATE SIZE AND LOCATION OF PENETRATION SLEEVES AND THREADED INSERTS WITH ARCHITECTURAL PLANS.
 - THREADED INSERTS SHALL BE COORDINATED WITH ARCHITECTURAL PLANS, RAILING DETAILS AND LIGHT POLE MOUNTING DETAILS.



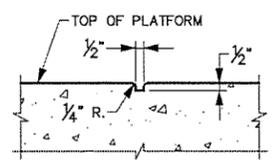
TYPICAL PIER CAP
SCALE: 1" = 1'-0"



EMBEDDED ANGLE DETAIL
SCALE: NTS



TYPICAL JOINT DETAIL
SCALE: NTS



CONTROL JOINT DETAIL
SCALE: NTS

60% SUBMITTAL
NOT FOR CONSTRUCTION

T	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
	SOUTH ACTON STATION PRECAST PLATFORM PANEL DETAILS SHEET 3	

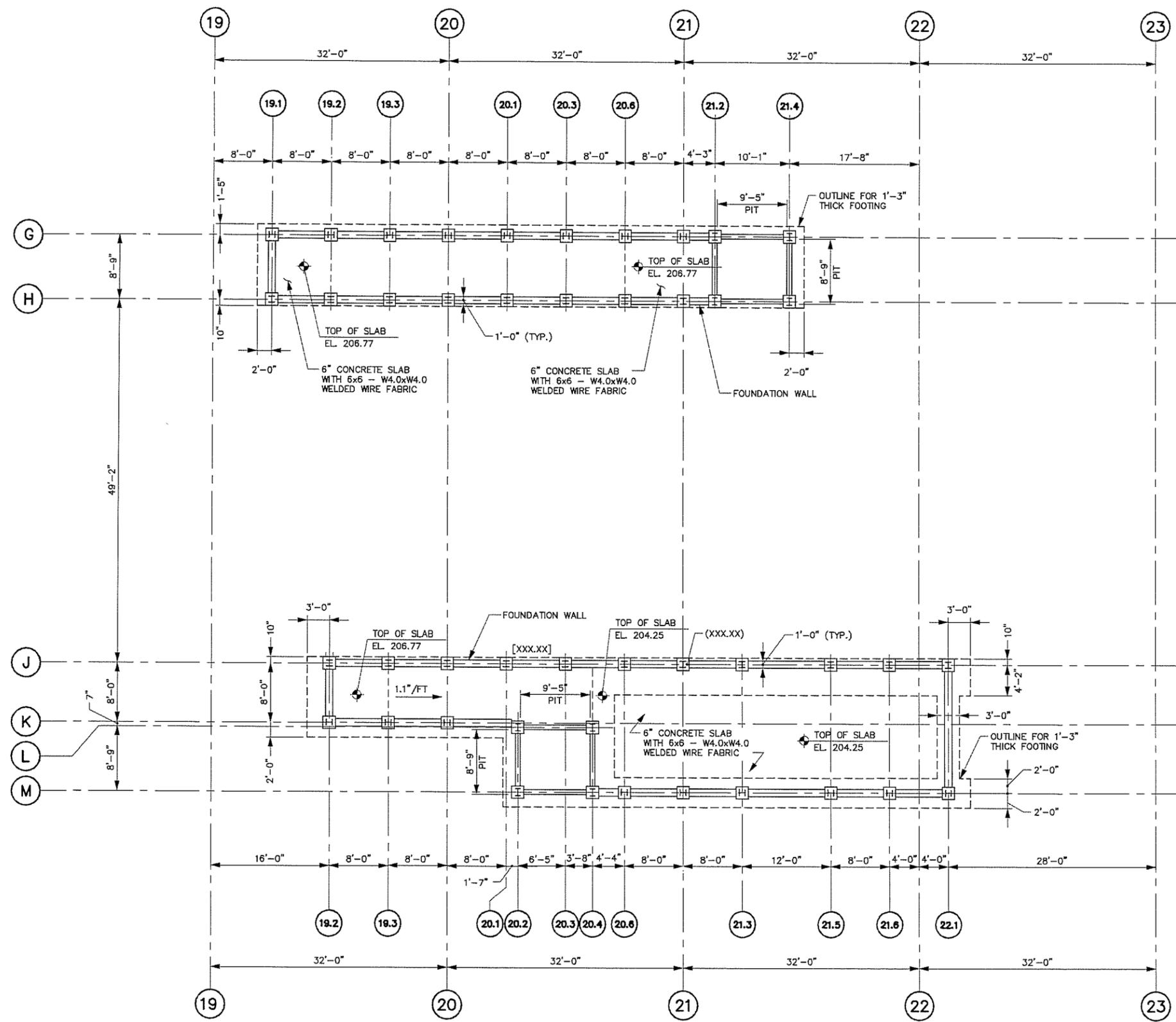
HNTB 300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-6000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
PROJECT MANAGER: _____		DATE: _____	
HORIZ: AS NOTED		DES. BY: JAG	CHK. BY: JAG
VERT: AS NOTED		DATE: 09/30/10	PLAN NO. _____
JACOBS 343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		DIRECTOR OF OPERATIONS SUPPORT: _____	
		DATE: 09/30/10	

FILE NAME: \\BOSFIL11\Datat2\Nal_proj\MBTA\2008\EX237800\CAD\7000ADD\7025STATIONS\South Acton\Structural\60% Submittal\113_Plot_Secs.dwg
PLOT DATE: Sep 22, 2010 - 8:22am

EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF SOUTH ACTON

- NOTES:
- FOR GENERAL NOTES, SEE SHEET S-100.
 - ALL PILASTERS SHALL BE 1'-8" x 1'-8".
 - (XXX.XX) INDICATES ELEVATION AT TOP OF FOUNDATION WALL AND/OR PILASTER.
 - [XXX.XX] INDICATES ELEVATION AT BOTTOM OF FOOTING.
 - CONTRACTOR SHALL COORDINATE ALL DIMENSIONS, DOOR AND WINDOW SIZES AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.



FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

60% SUBMITTAL
NOT FOR CONSTRUCTION

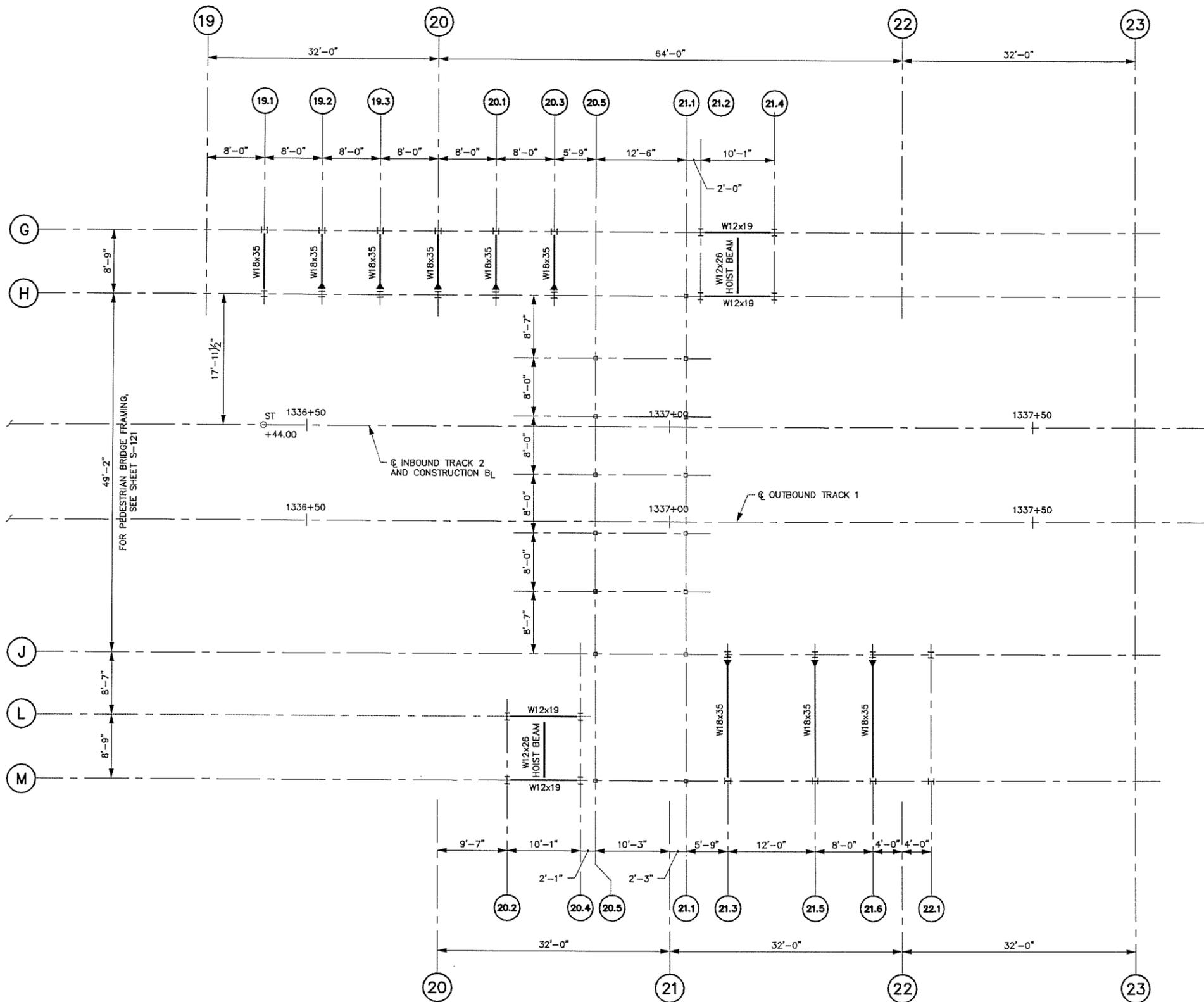
T	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
SOUTH ACTON STATION HEAD HOUSES FOUNDATION PLAN		
HNTB 300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-4000	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER: _____ DATE: 09/30/10		ISSUE NO. _____ DATE: _____
DESIGNED BY: DJM CHECKED BY: DJM DATE: 09/30/10		ISSUE NO. _____ DATE: _____

JACOBS
343 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222

FILE NAME: \\BOSFIL11\0\proj\MBTA\2008\EBX37800\CAU\700CA00\702STATIONS\South Acton\Structural\60% Submittal\114_Head_Houses_Found_Plan.dwg
PLOT DATE: Sep 22, 2010 8:25am

EAST TO
BOSTON

WEST TO
FITCHBURG
TOWN OF SOUTH ACTON



- NOTES:
1. TOP OF STEEL ELEVATION IS XXX.XX UNLESS OTHERWISE NOTED THUS (+/-0'-0").
 2. FOR GENERAL NOTES, SEE SHEET S-100.
 3. FOR STEEL DETAILS, SEE SHEET S-122 THRU S-123.
 4. FOR FRAME ELEVATIONS, SEE SHEETS S-119 THRU S-120.
 5. \blacktriangleright INDICATES MOMENT CONNECTION

UPPER LEVEL FRAMING PLAN
SCALE: 1/8" = 1'-0"

60% SUBMITTAL
NOT FOR CONSTRUCTION

T	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
	SOUTH ACTON STATION HEAD HOUSES UPPER LEVEL FRAMING PLAN	
HNTB 300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-4000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY: _____		DIRECTOR OF OPERATIONS SUPPORT
DATE: 09/30/10		DATE: _____

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

PROJECT MANAGER		DATE	
HORIZ: AS NOTED	VERT: N/A	DATE: 09/30/10	

343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		DATE: 09/30/10	

FILE NAME: \\BOSFIL11\Dat02\NA...proj\MBTA\2008\2X3780\CAD\700CAD00\702STATIONS\South Acton\Structural\60% Submittal\115-118_Head_Houses_Framing_Plans.dwg
PLOT DATE: Sep 22, 2010 - 8:27am

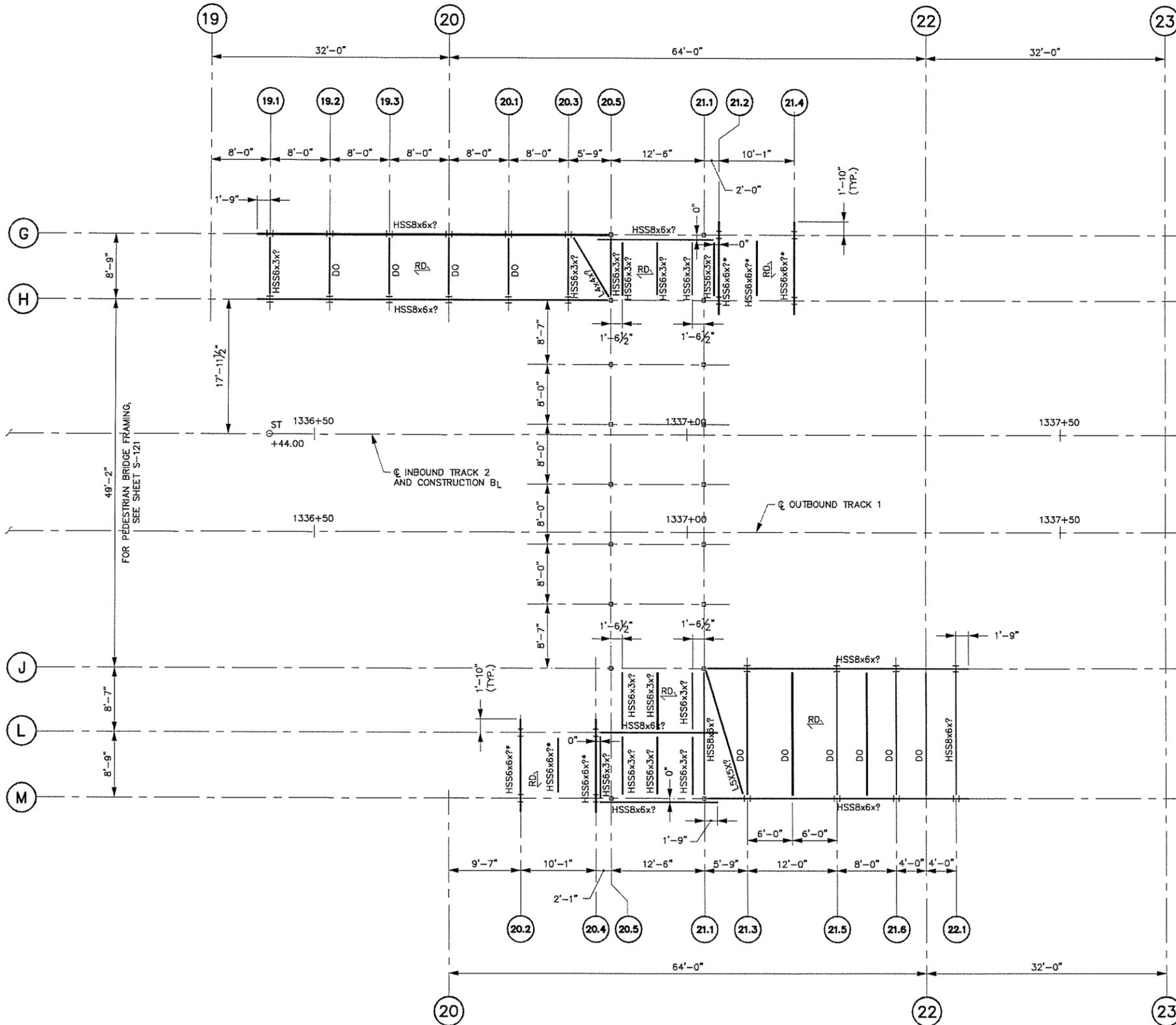
EAST TO
BOSTON

WEST TO
FITCHBURG

TOWN OF SOUTH ACTON

NOTES:

1. TOP OF STEEL ELEVATION IS XXX.XX UNLESS OTHERWISE NOTED THUS (+/-0'-0").
2. FOR GENERAL NOTES, SEE SHEET S-100.
3. GUTTER STEEL CHANNEL BEAMS NOT SHOWN FOR CLARITY.
4. FOR STEEL DETAILS, SEE SHEET S-122 THRU S-123.
5. FOR FRAME ELEVATIONS, SEE SHEETS S-119 THRU S-120.
6. ROOF CONSTRUCTION SHALL BE 1½ INCH DEEP, 18 GAUGE GALVANIZED STEEL DECK.
7. * INDICATES HSS6x6x¼ ROOF FRAME. SEE FRAME ELEVATIONS.



HIGH ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

60% SUBMITTAL
NOT FOR CONSTRUCTION

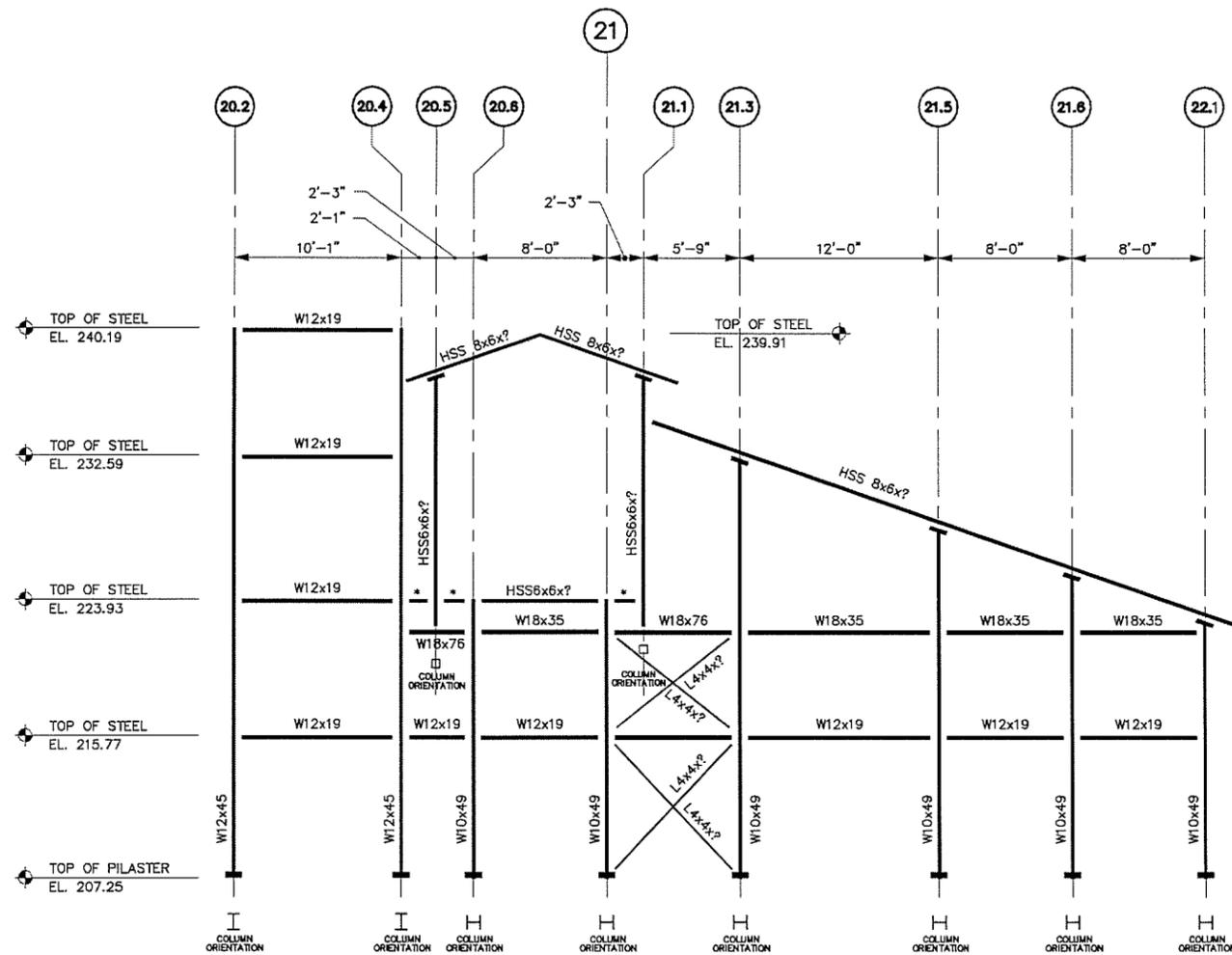
T	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
SOUTH ACTON STATION HEAD HOUSES HIGH ROOF FRAMING PLAN		
HNTB 300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 305-4000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:		APPROVED BY:
PROJECT MANAGER		DIRECTOR OF OPERATIONS SUPPORT
DATE: 09/30/10		DATE:
HORIZ: AS NOTED		PLAN NO.
VERT: N/A		SHEET S-118 OF
DATE: 09/30/10		ISSUE

JACOBS		343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222	
ISSUE	DATE	DESCRIPTION	BY

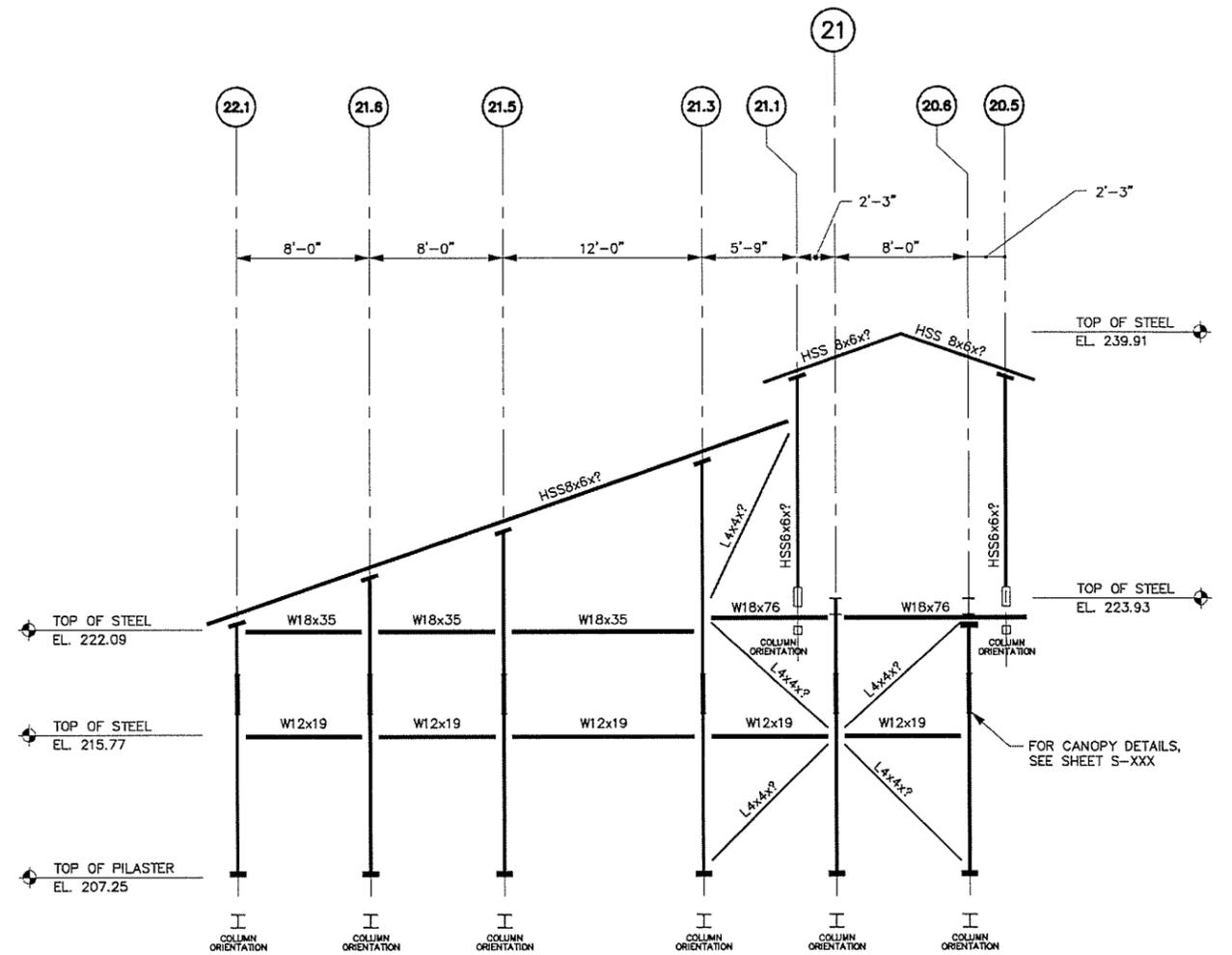
FILE NAME: \\BOSFIL11\Dat02\NVA_proj\MBTA\2008\E237800\CAD\7000A0D\702STATIONS\South Acton\Structural\60% Submission\115-118_Head_Houses_Framing_Plans.dwg
PLOT DATE: Sep 22, 2010 8:27am

NOTES:

- FOR GENERAL NOTES, SEE SHEET S-100.
- FOR STEEL DETAILS, SEE SHEETS S-122 THRU S-123.
- * INDICATES HSS6x6x $\frac{1}{4}$ BEAM.



FRAME ELEVATION AT COLUMN LINE M
SCALE: 1/4" = 1'-0"



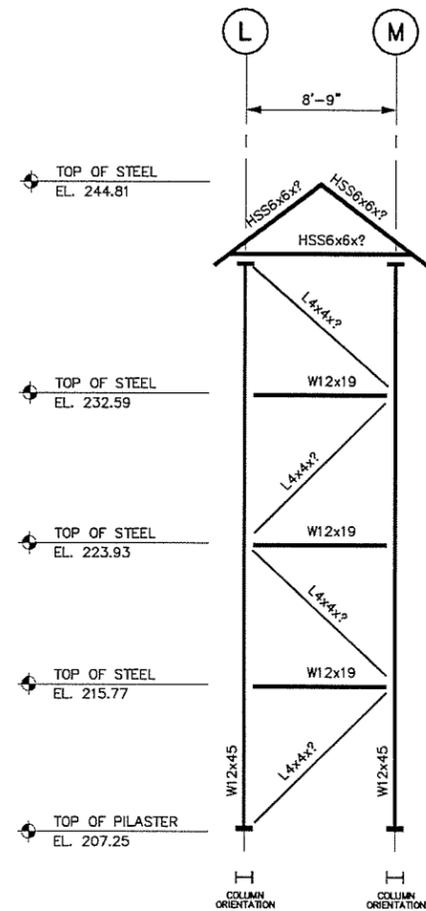
FRAME ELEVATION AT COLUMN LINE J
SCALE: 1/4" = 1'-0"

60% SUBMITTAL
NOT FOR CONSTRUCTION

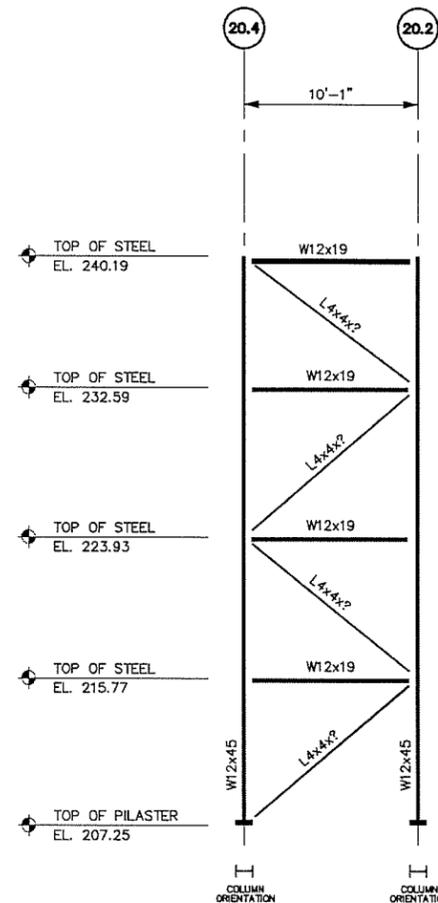
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
		FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
SOUTH ACTON STATION HEAD HOUSES FRAME ELEVATIONS SHEET 1			
 300 APOLLO DRIVE CHELSEA, MA 02156 (978) 900-4000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
		PROJECT MANAGER: _____ DATE: 09/30/10	
HORIZ: AS NOTED VERT: N/A DATE: 09/30/10		DES. BY: DJM DR. BY: DJM MWT	
JACOBS 343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY PLAN NO. _____ SHEET S-119 OF _____	

NOTES:

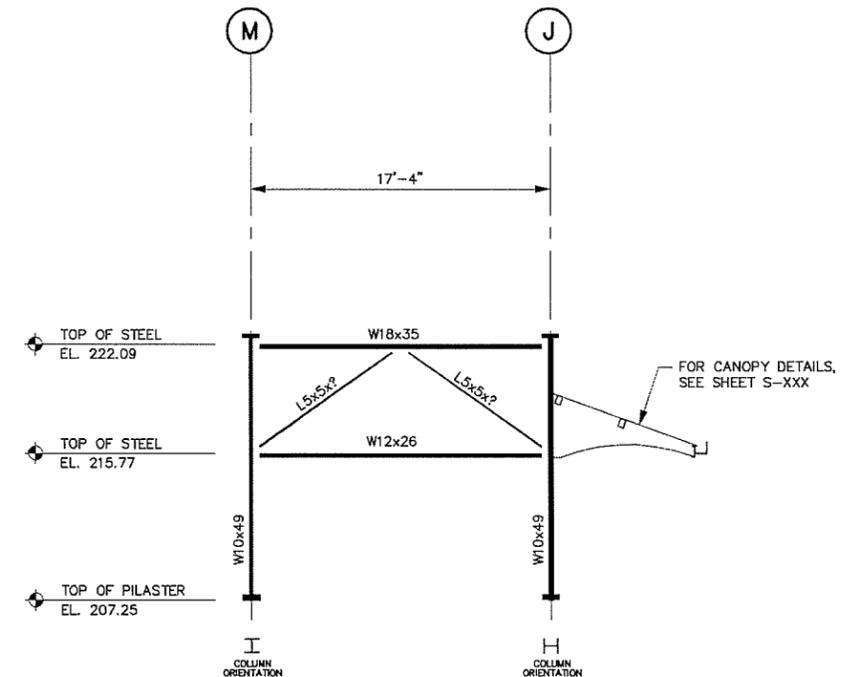
- FOR GENERAL NOTES, SEE SHEET S-100.
- FOR STEEL DETAILS, SEE SHEETS S-122 THRU S-123.



FRAME ELEVATION AT COLUMN LINE 20.2
SCALE: 3/8" = 1'-0"



FRAME ELEVATION AT COLUMN LINE L
SCALE: 3/8" = 1'-0"



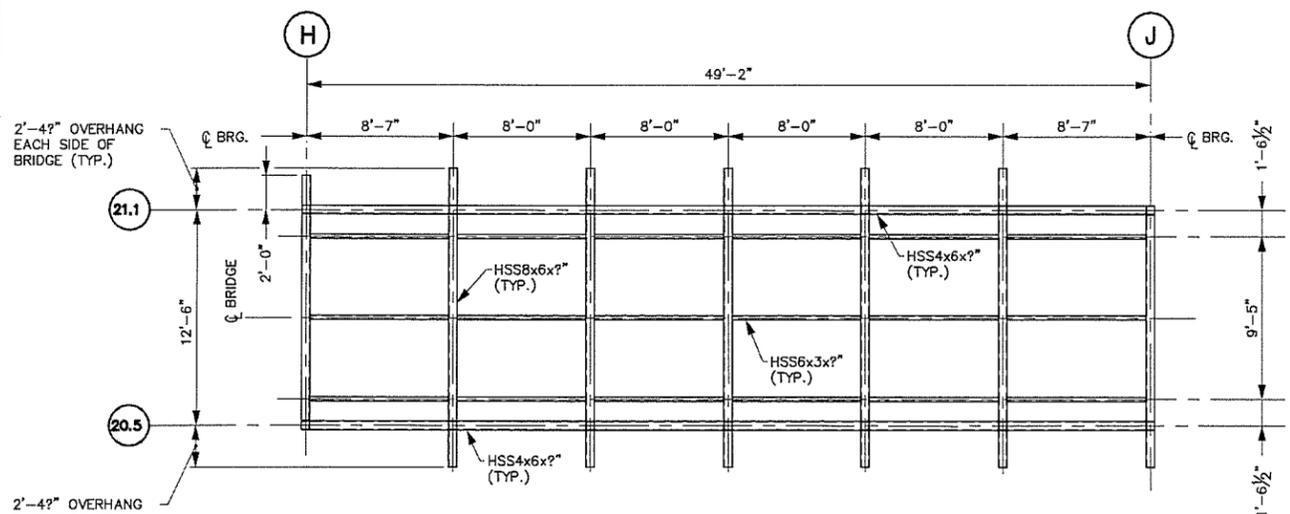
FRAME ELEVATION AT COLUMN LINE 22.1
SCALE: 3/8" = 1'-0"

60% SUBMITTAL
NOT FOR CONSTRUCTION

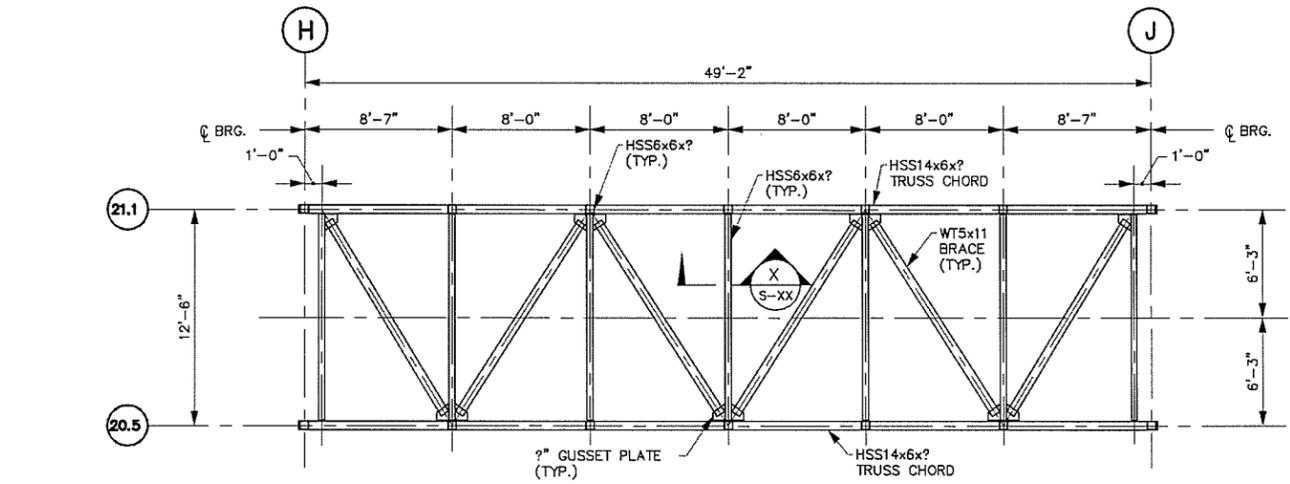
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION HEAD HOUSES FRAME ELEVATIONS SHEET 2	
		300 APOLLO DRIVE CHELSEA, MA 02124 (978) 905-1000	
APPROVED BY:		DIRECTOR OF OPERATIONS SUPPORT	
DATE: 09/30/10		SHEET S-120 OF	

FILE NAME: \\bosfil11\0\data2\NAL\proj\MBTA\2008\22\STATI0NS\South Acton\Structural\60% Submittal\119-120_Head_Houses_Frame_Elevations.dwg
PLOT DATE: Sep 22, 2010 - 8:29am

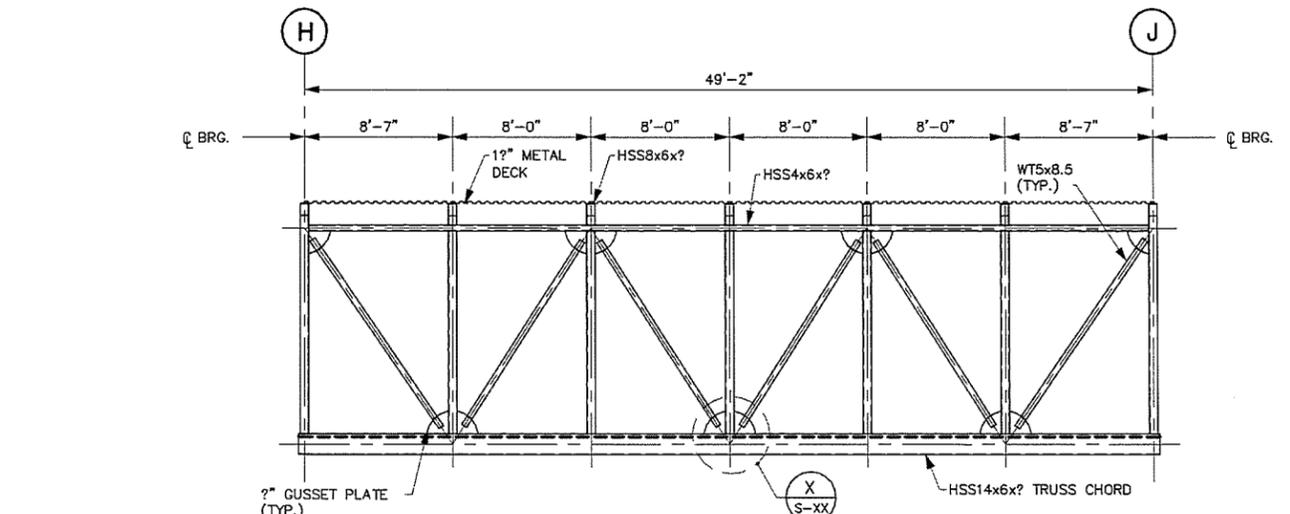
FILE NAME: \\BOSFIL11\proj\NAI\proj\MBTA\2008\E2X37800\CAD\700CAD\702STATIONS\South Acton\Structural\60% Submission\121_Ped_Bridge_Plans_Secs.dwg
 PLOT DATE: Sep 22, 2010 8:30am



PEDESTRIAN BRIDGE ROOF FRAMING
 SCALE: 3/16" = 1'-0"



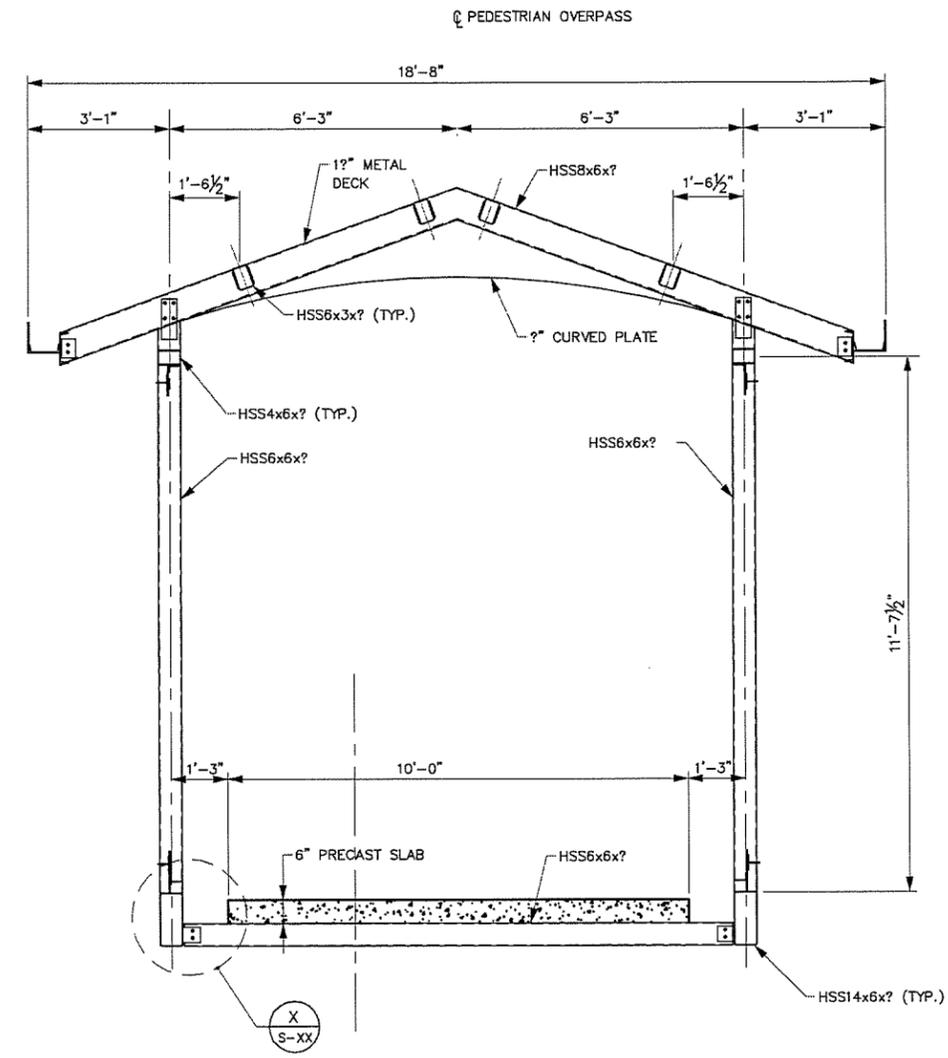
PEDESTRIAN BRIDGE DECK FRAMING
 SCALE: 3/16" = 1'-0"



TYPICAL PEDESTRIAN BRIDGE SECTION AT TRUSS FRAME
 SCALE: 3/16" = 1'-0"

NOTES:

1. FOR GENERAL NOTES, SEE SHEET S-100.
2. FOR STEEL DETAILS, SEE SHEETS S-122 THRU S-123.
3. FOR PRECAST SLAB DETAILS, SEE SHEET S-124.
4. ALL STEEL ELEMENTS SHALL BE HOT-DIP GALVANIZED UNLESS OTHERWISE NOTED.
5. ROOF CONSTRUCTION SHALL BE 1/2 INCH DEEP, 18 GAUGE GALVANIZED STEEL DECK.

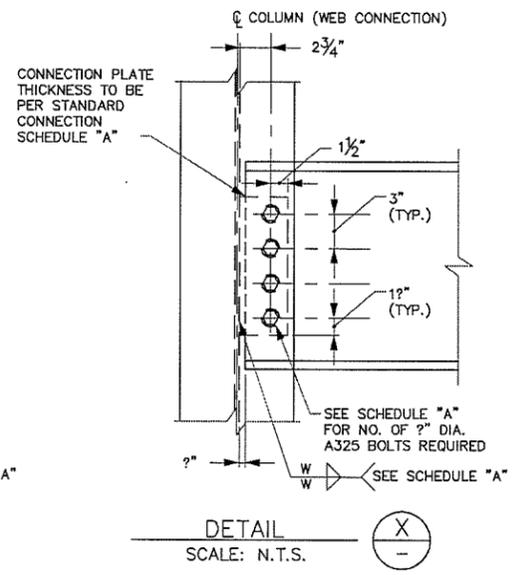
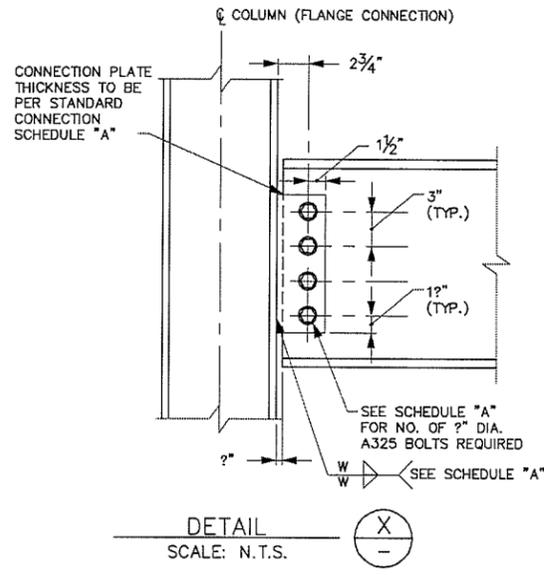


TYPICAL PEDESTRIAN BRIDGE SECTION
 SCALE: 1/2" = 1'-0"

60% SUBMITTAL
 NOT FOR CONSTRUCTION

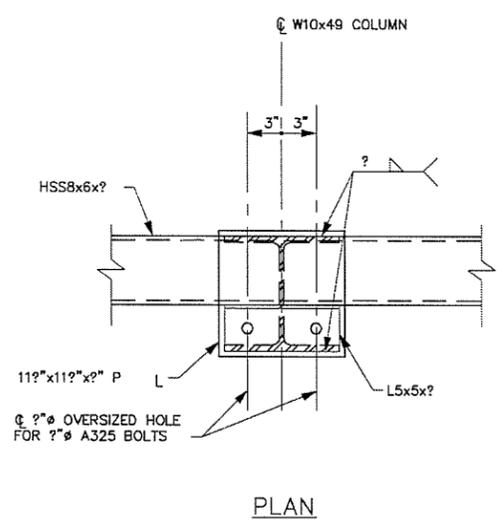
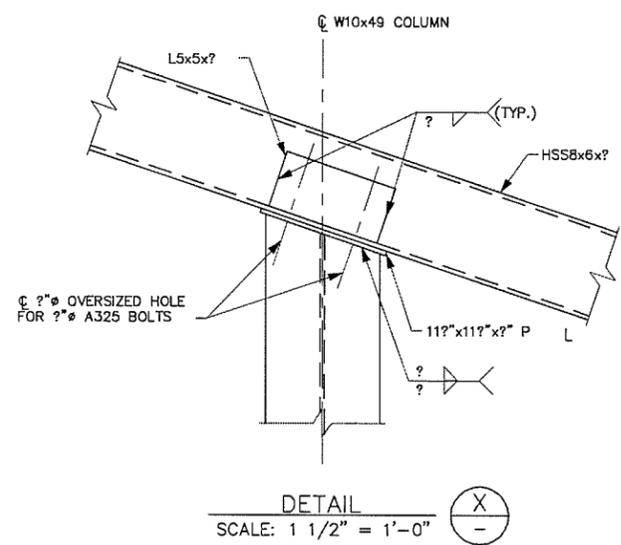
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION PEDESTRIAN BRIDGE FRAMING AND SECTIONS	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
		PROJECT MANAGER: _____ DATE: 09/30/10	
HORIZ: AS NOTED VERT: N/A DATE: 09/30/10		DES. BY: DJM DR. BY: DJM CHK. BY: MWT	
343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		PLAN NO. _____ SHEET S-121 OF _____	

FILE NAME: \\BOSFL11\Dat02\NMA...proj\MBTA\2008\EA37800\CAD\7000A00\702STATIONS\South Acton\Structural\60% Submission\122-123_Steel_Dets.dwg
 PLOT DATE: Sep 22, 2010 - 8:31am



SCHEDULE "A" STANDARD BOLTED CONNECTION			
BEAM SIZE	NO. AND SIZE OF BOLTS REQUIRED	PLATE THICKNESS	WELD SIZE (W)
W10	(2) 3/4" DIA.	3/8	1/4
W12	(3) 3/4" DIA.	3/8	1/4
W18	(5) 3/4" DIA.	1/2	5/16

- NOTES:
- FOR GENERAL NOTES, SEE SHEET S-100.
 - THE CONTRACTOR SHALL COORDINATE STRUCTURAL AND ARCHITECTURAL DRAWINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO STEEL FABRICATION.
 - ALL STEEL ELEMENTS SHALL BE HOT-DIP GALVANIZED UNLESS OTHERWISE NOTED.



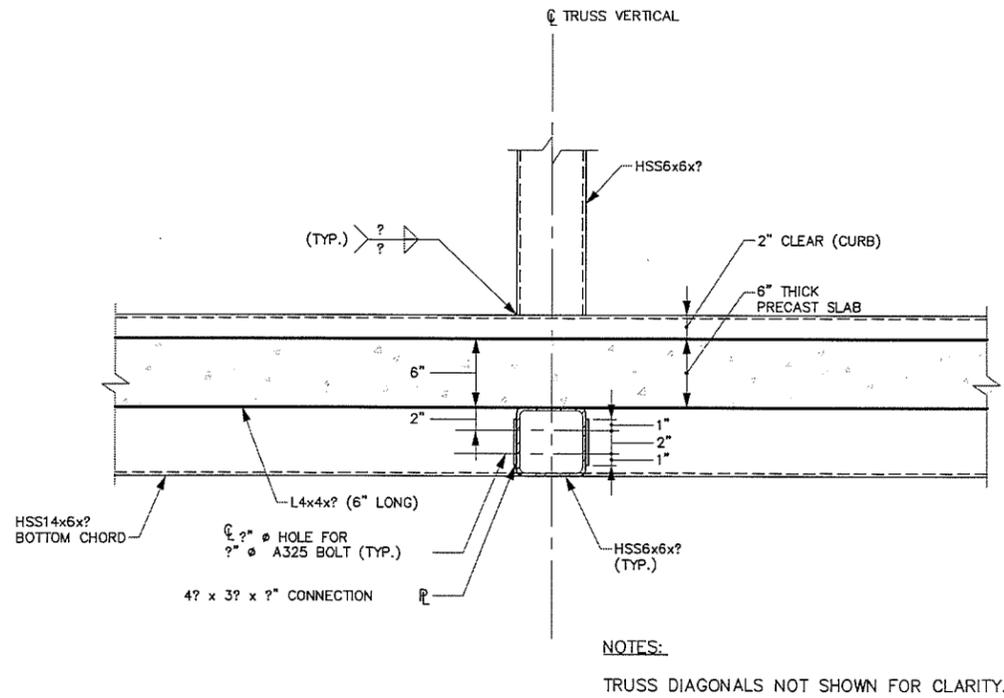
60% SUBMITTAL
 NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION STEEL DETAILS SHEET 1	
300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-4000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		PROJECT MANAGER: _____ DES. BY: _____ DATE: 09/30/10	
HORIZ: AS NOTED VERT: N/A DATE: 09/30/10		PLAN NO. _____ SHEET S-122 OF _____	

FILE NAME: \\BOSFL11\Dat02\NA_proj\MBTA\2008\E2X37800\CAD\7000ADD\702STATIONS\South Acton\Structural\60% Submission\122-123_Steel_Dets.dwg
 PLOT DATE: Sep 22, 2010 - 8:31am

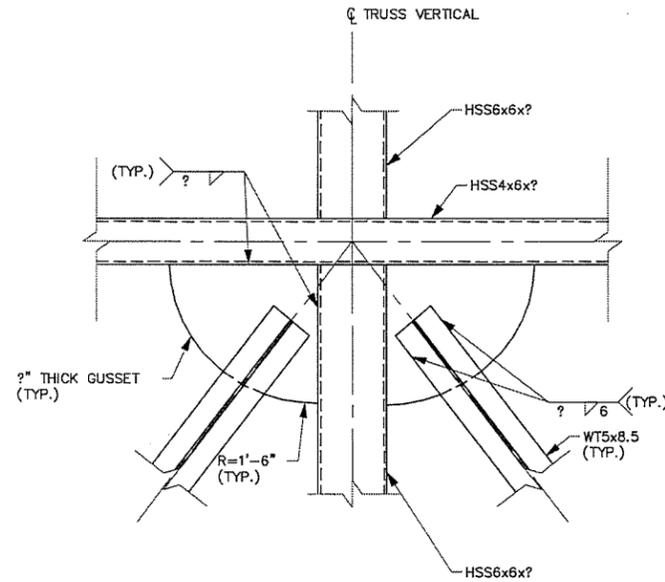
NOTES:

- FOR GENERAL NOTES, SEE SHEET S-100.
- THE CONTRACTOR SHALL COORDINATE STRUCTURAL AND ARCHITECTURAL DRAWINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO STEEL FABRICATION.
- ALL STEEL ELEMENTS SHALL BE HOT-DIP GALVANIZED UNLESS OTHERWISE NOTED.

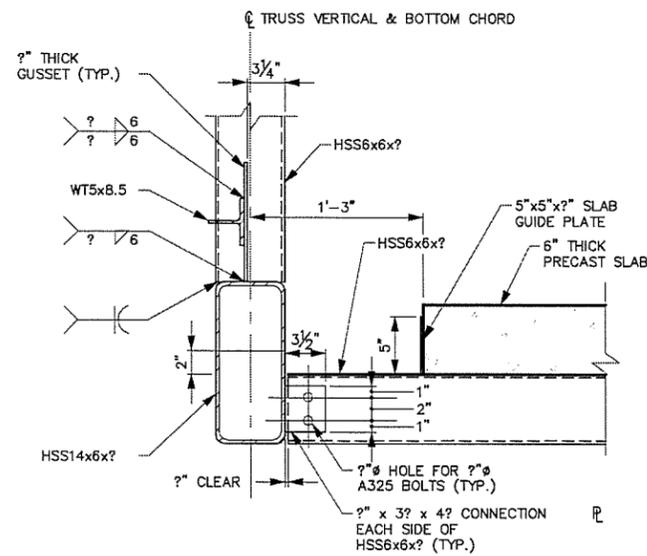


SECTION
 SCALE: 1 1/2" = 1'-0" (X)

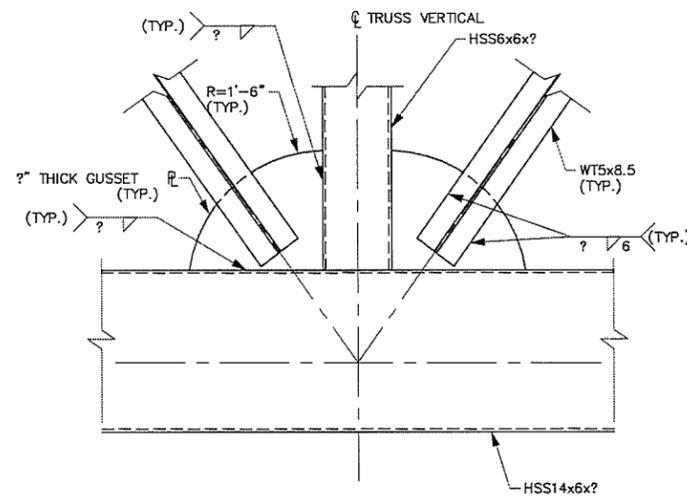
NOTES:
 TRUSS DIAGONALS NOT SHOWN FOR CLARITY.



DETAIL
 SCALE: 1 1/2" = 1'-0" (X)



DETAIL
 SCALE: 1 1/2" = 1'-0" (X)



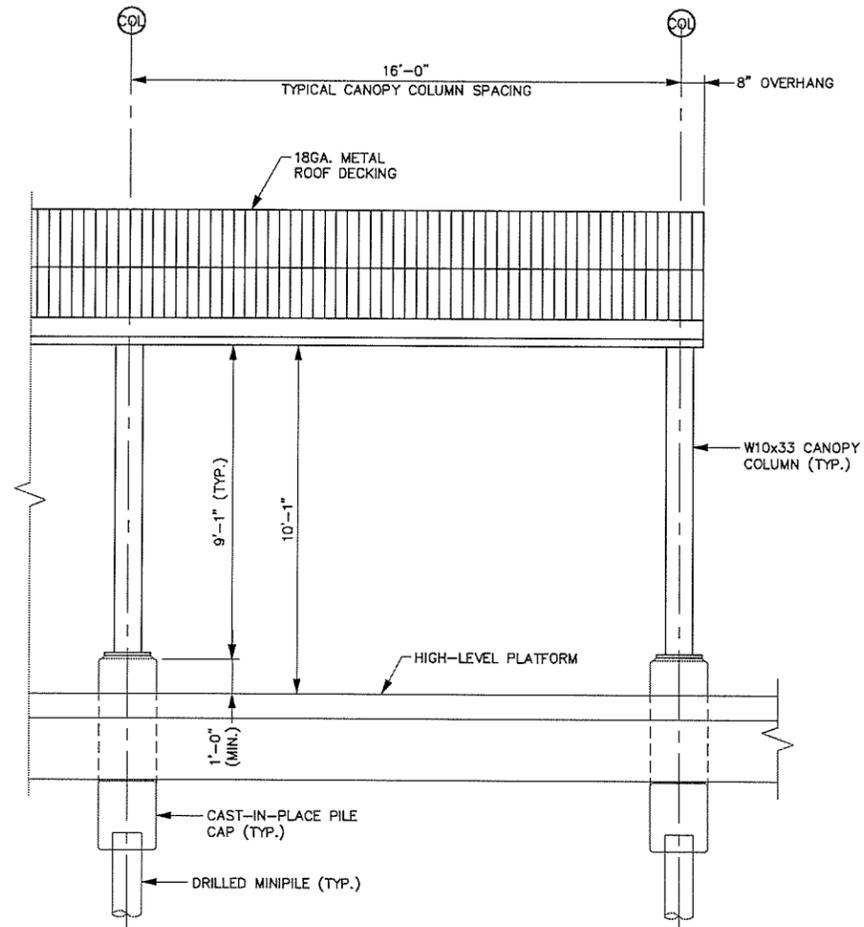
DETAIL
 SCALE: 1 1/2" = 1'-0" (X)

60% SUBMITTAL
 NOT FOR CONSTRUCTION

T	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
SOUTH ACTON STATION STEEL DETAILS SHEET 2		
HNTB 300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 905-6000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:		DIRECTOR OF OPERATIONS SUPPORT
PROJECT MANAGER		DATE
HORIZ: AS NOTED	DES. BY	DATE
VERT: N/A	DJM	DJM
DATE: 09/30/10	DJM	MWT
PLAN NO.		ISSUE
SHEET S-123 OF		(X)

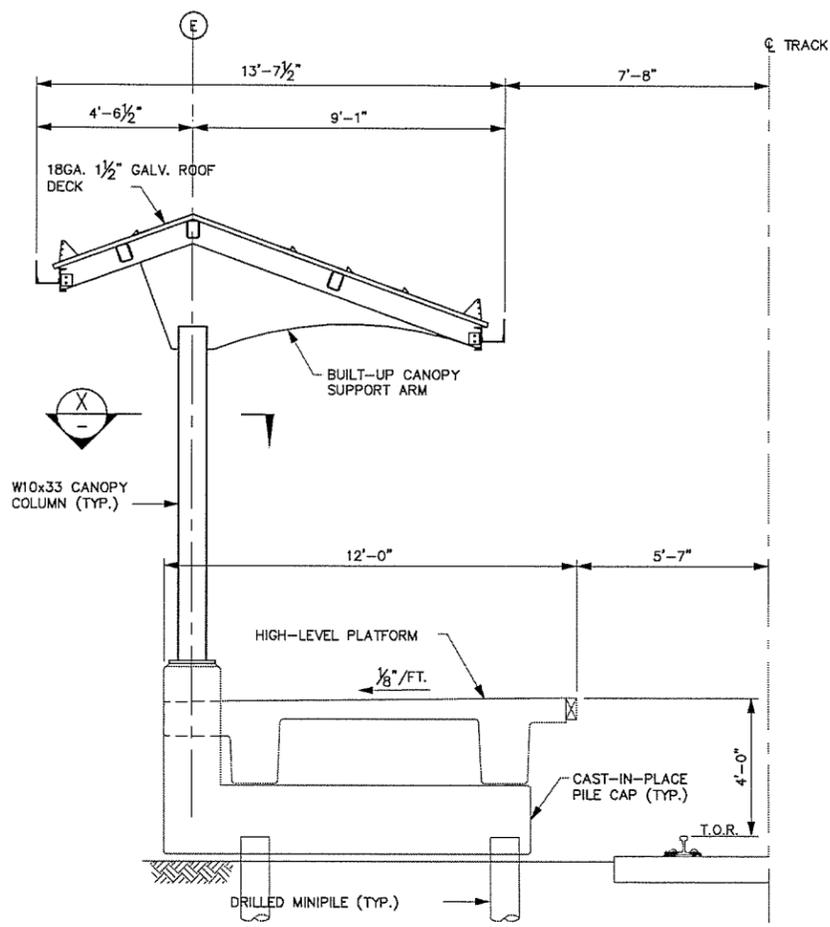
JACOBS
 343 CONGRESS STREET
 BOSTON, MA 02110
 (617) 242-9222

FILE NAME: \\BOSFIL11\Data2\NAI\proj\MBTA\2008\E2X37800\CAD\700CADD\702STATIONS\South Acton\Structure\60% Submission\128_130_Canopy_Details.dwg
 PLOT DATE: Sep 22, 2010 - 8:36am



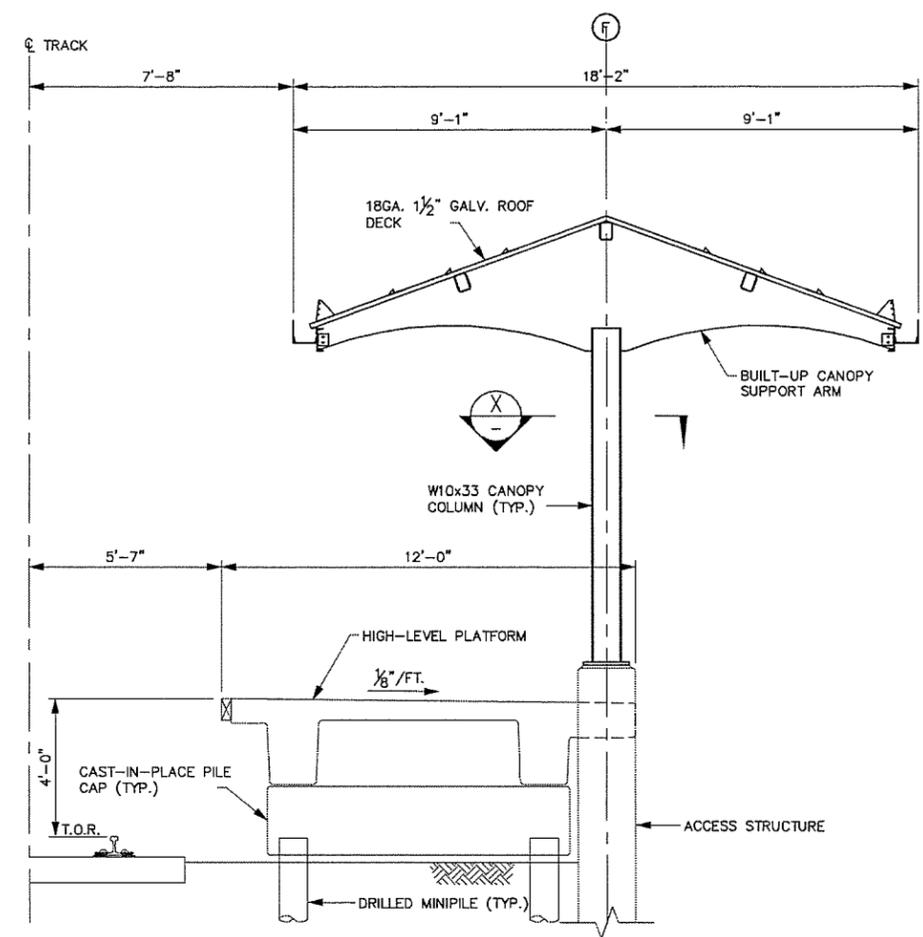
PLATFORM CANOPY ELEVATION

SCALE: 3/8" = 1'-0"



HALF PLATFORM CANOPY CROSS SECTION

SCALE: 3/8" = 1'-0"



FULL PLATFORM CANOPY CROSS SECTION

SCALE: 3/8" = 1'-0"

NOTES:

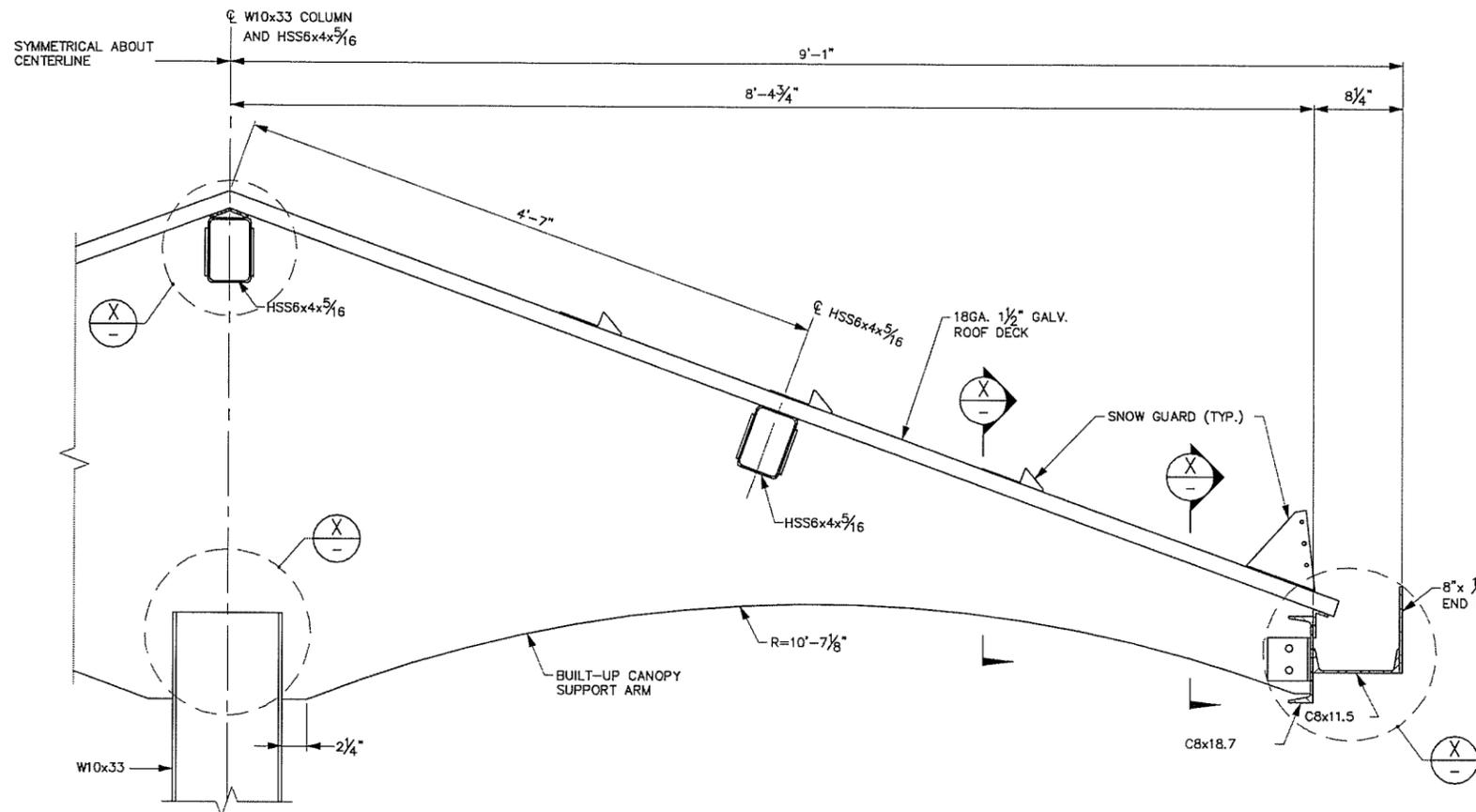
1. FOR GENERAL NOTES, SEE SHEET S-100.
2. THE CONTRACTOR SHALL COORDINATE STRUCTURAL AND ARCHITECTURAL DRAWINGS, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE STEEL FABRICATION BEGINS.
3. FOR SIGN, COMMUNICATION AND LIGHTING DETAILS REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS.
4. ALL STEEL ELEMENTS SHALL BE HOT-DIP GALVANIZED UNLESS OTHERWISE NOTED.
5. FOR ADDITIONAL CANOPY DETAILS, REFER TO THE ARCHITECTURAL, CIVIL AND ELECTRICAL DRAWINGS.

60% SUBMITTAL
 NOT FOR CONSTRUCTION

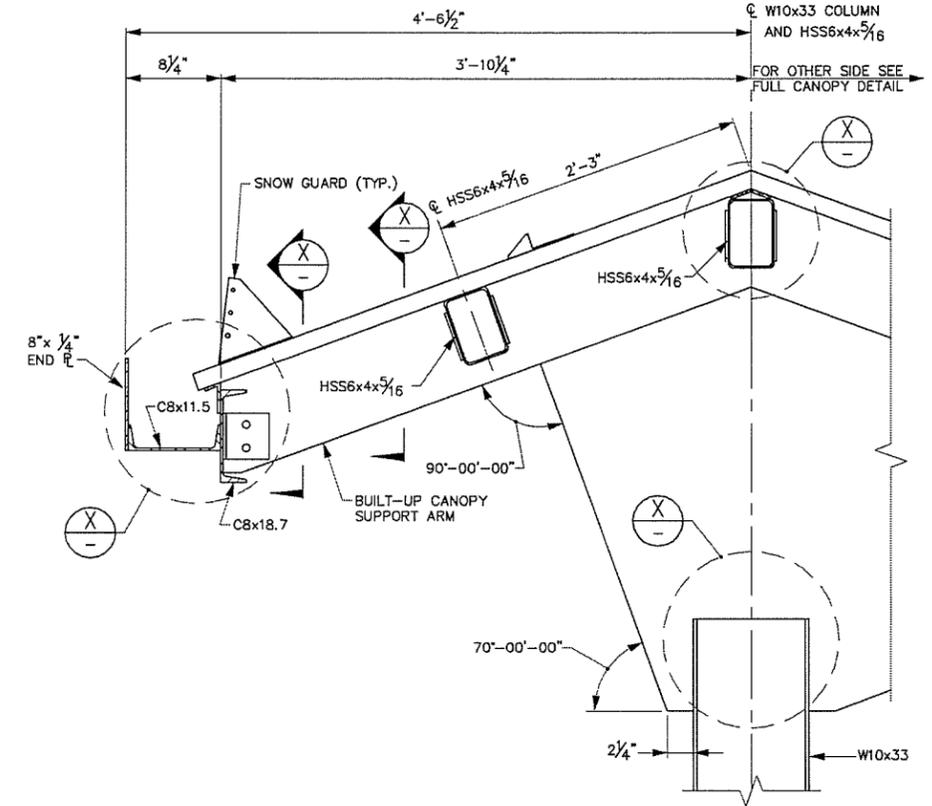
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION PLATFORM CANOPY DETAILS SHEET 1	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER HORIZ: AS NOTED VERT: AS NOTED DATE: 09/30/10		DATE DES. BY: JAG DR. BY: JAG CHK. BY: MWT	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-6000	

NOTES:

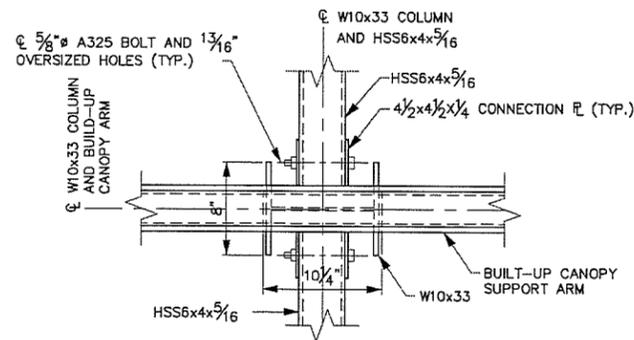
- FOR GENERAL NOTES, SEE SHEET S-100.
- FOR ADDITIONAL DETAILS, SEE ARCHITECTURAL PLANS.



FULL CANOPY SUPPORT ARM
SCALE: 1 1/2" = 1'-0"

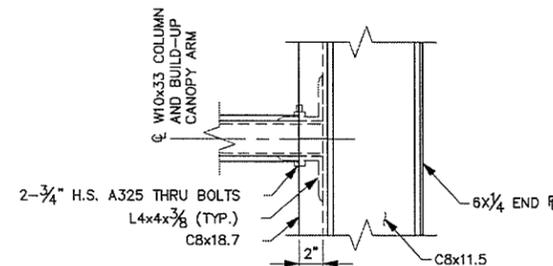


HALF CANOPY SUPPORT ARM
SCALE: 1 1/2" = 1'-0"



NOTE:
METAL ROOF DECK NOT SHOWN FOR CLARITY

PART PLAN AT COLUMN
SCALE: 1 1/2" = 1'-0"



NOTE:
METAL ROOF DECK NOT SHOWN FOR CLARITY

PART PLAN AT GUTTER LINE
SCALE: 1 1/2" = 1'-0"

60% SUBMITTAL
NOT FOR CONSTRUCTION

T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
FITCHBURG COMMUTER RAIL LINE
IMPROVEMENT PROJECT
CONTRACT NO. G67PS01

SOUTH ACTON STATION
PLATFORM CANOPY DETAILS
SHEET 2

HNTB 300 APOLLO DRIVE
CHELSEA, MA 02134
(978) 905-1000

MASSACHUSETTS BAY TRANSPORTATION
AUTHORITY

APPROVED BY:

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT MANAGER	DATE	DIRECTOR OF OPERATIONS SUPPORT	DATE

JACOBS 343 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222

HORIZ: AS NOTED

VERT: AS NOTED

DATE: 09/30/10

DES. BY

JAG

DR. BY

JAG

CHK. BY

MWT

PLAN NO.

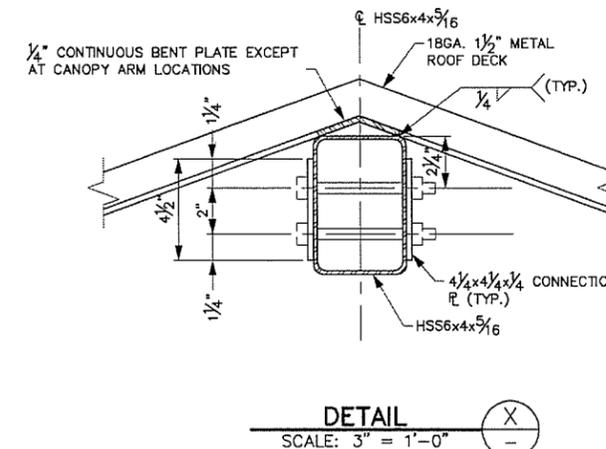
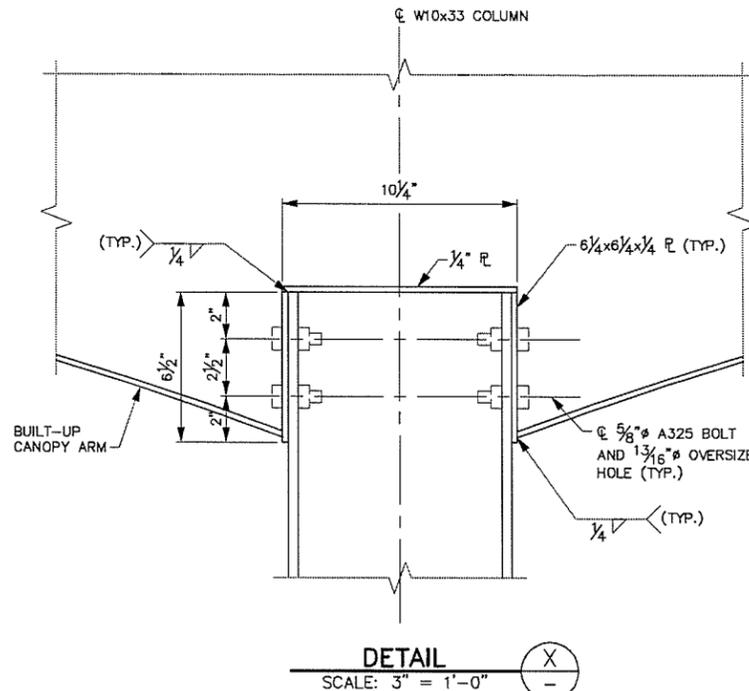
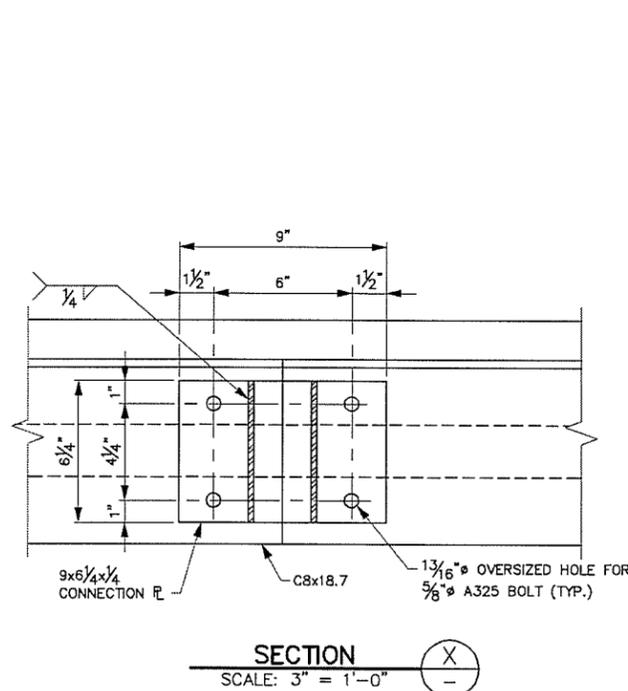
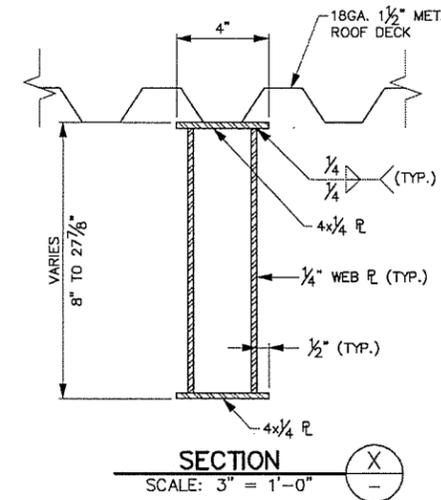
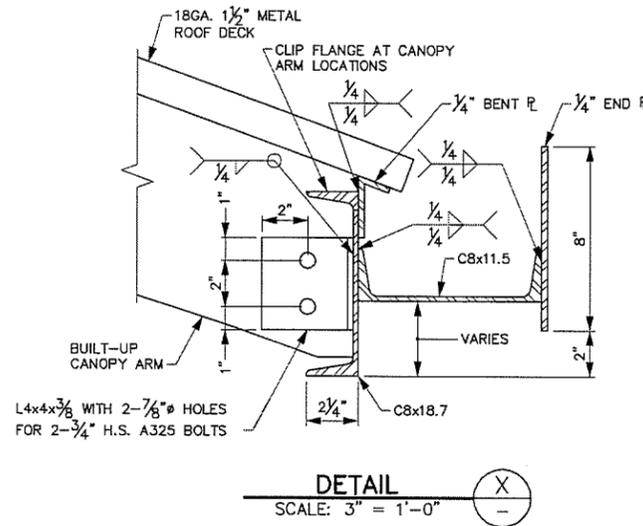
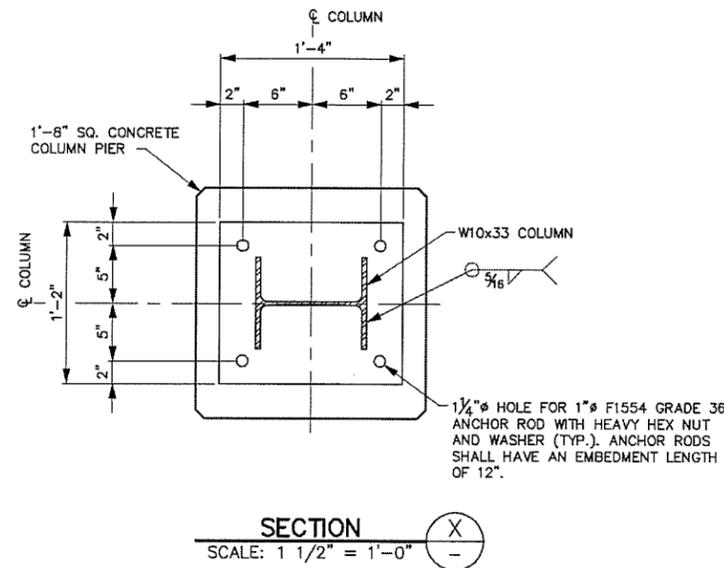
SHEET S-129 OF

ISSUE

○

NOTES:

1. FOR GENERAL NOTES, SEE SHEET S-100.
2. FOR ADDITIONAL DETAILS, SEE ARCHITECTURAL PLANS.



60% SUBMITTAL
NOT FOR CONSTRUCTION

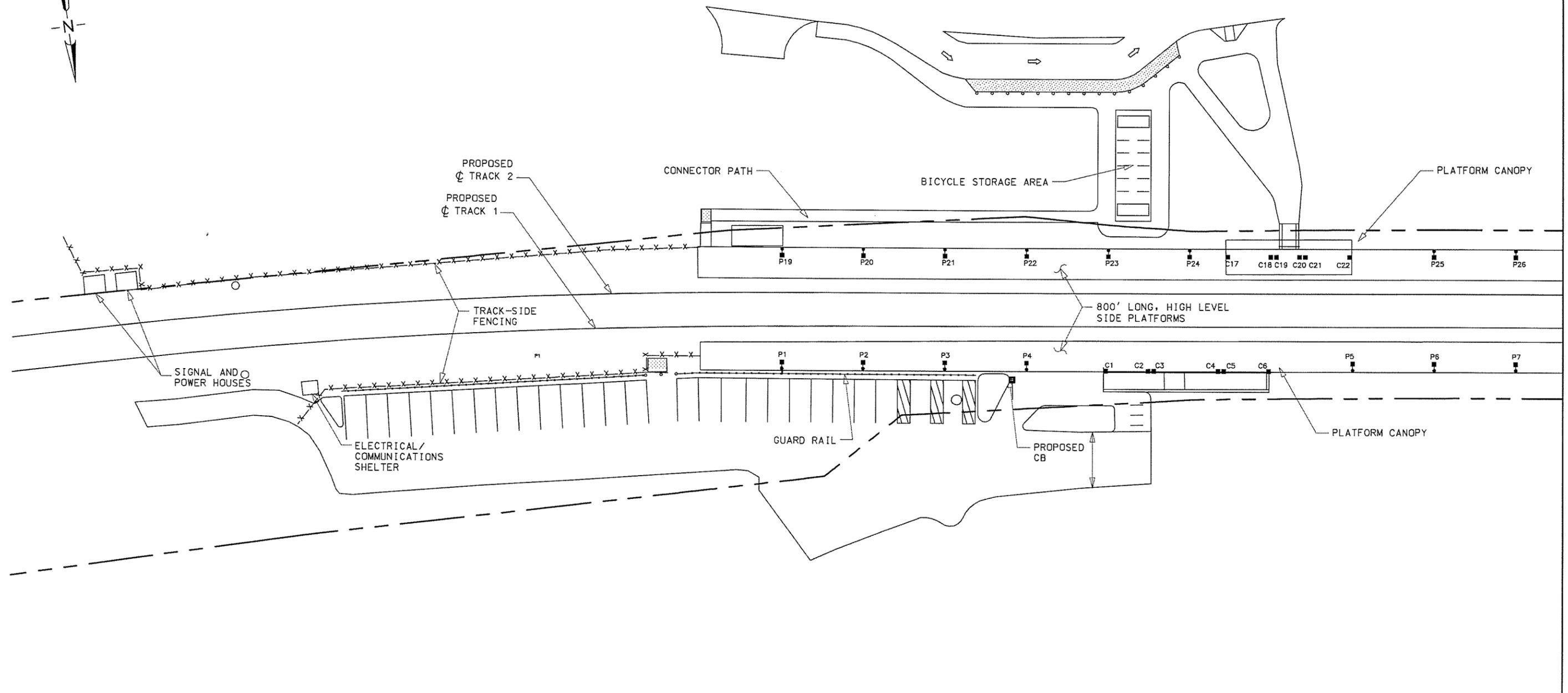
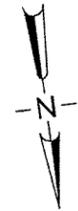
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PLOT DATE: Sep 22, 2010 - 8:37am

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION PLATFORM CANOPY DETAILS SHEET 3	
PROJECT MANAGER HORIZ: AS NOTED VERT: AS NOTED DATE: 09/30/10		DIRECTOR OF OPERATIONS SUPPORT APPROVED BY: _____ DATE:	
		DES. BY: JAG CHK. BY: JAG DATE: 09/30/10	PLAN NO. SHEET S-130 OF

EAST TO BOSTON

WEST TO FITCHBURG

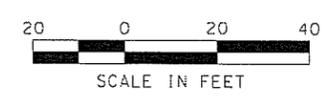
TOWN OF ACTON



PLAN - EAST END

LEGEND:

■ PLATFORM, STAIRS AND ELEVATORS



60% SUBMITTAL
NOT FOR CONSTRUCTION

MATCH LINE STA. 1334+00 SEE SHEET E-2

FILE NAME: P:\MBTA\2008\22\37800\CAD\7000ADD\702STATIONS\South Acton\Electrical\E-1 & E-2 Electrical Site Plans.dwg
PLOT DATE: Sep 22, 2010 9:20am

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

JACOBS
343 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222

T	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
SOUTH ACTON STATION ELECTRICAL SITE PLAN - EAST END SHEET 1 OF 2		
HNTB 300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-4000	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER		DATE
HORIZ: AS SHOWN	DES. BY: RJW	CHK. BY: JPH
VERT: NONE	DATE: 09/30/10	WTG
PLAN NO.		ISSUE
SHEET E1 OF		

EAST TO BOSTON

WEST TO FITCHBURG
TOWN OF ACTON

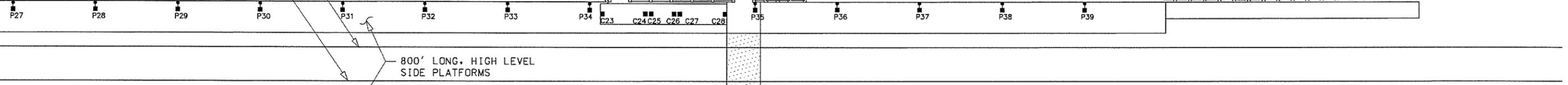


MATCH LINE STA. 1334+00 SEE SHEET E1

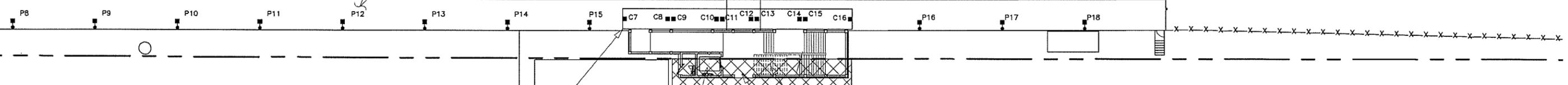
PROPOSED TRACK 2
PROPOSED TRACK 1

STAIRWAY AND ELEVATOR TO OVERHEAD PEDESTRIAN BRIDGE

PLATFORM CANOPY



800' LONG, HIGH LEVEL SIDE PLATFORMS



PLATFORM CANOPY

ELEVATOR TO PEDESTRIAN BRIDGE

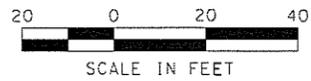
STAIRS TO PLATFORM AND PEDESTRIAN BRIDGE
MAIN STATION ENTRANCE

PLAN - WEST END

LEGEND:

PERMANENT EASEMENT

PLATFORM, STAIRS AND ELEVATORS



60% SUBMITTAL
NOT FOR CONSTRUCTION



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
FITCHBURG COMMUTER RAIL LINE
IMPROVEMENT PROJECT
CONTRACT NO. G67PS01

SOUTH ACTON STATION
ELECTRICAL SITE PLAN - WEST END
SHEET 2 OF 2



300 APOLLO DRIVE
CHELSEA, MA 01824
(978) 955-1000

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

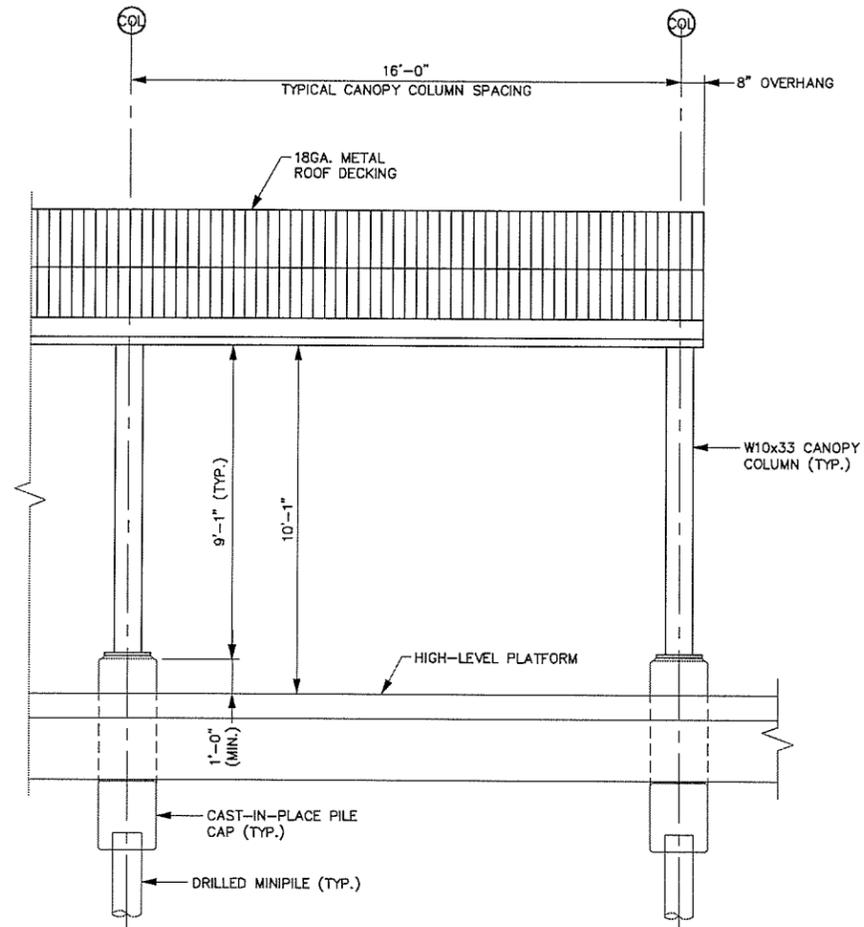


345 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222

PROJECT MANAGER	DATE	DIRECTOR OF OPERATIONS SUPPORT	DATE
HORIZ: AS SHOWN	DES. BY: RJW	DR. BY: JPH	CHK. BY: WTG
VERT: NONE	DATE: 09/30/10		PLAN NO. SHEET E2 OF

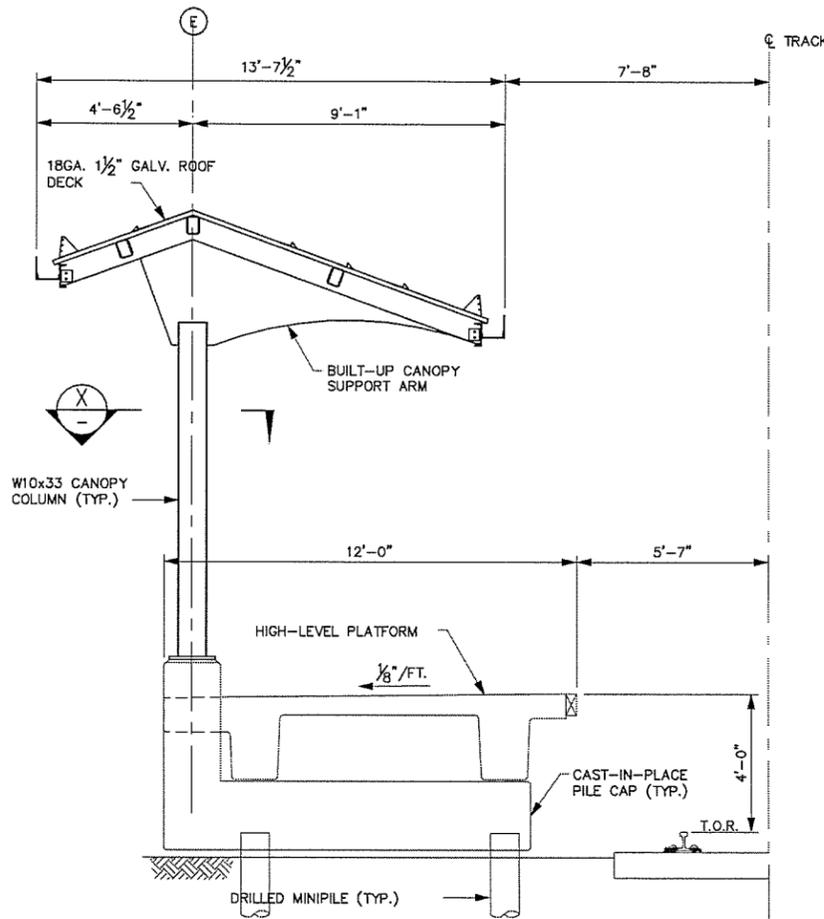
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PLOT DATE: Sep 22, 2010 - 9:20am

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 PLOT DATE: Sep 22, 2010 - 8:36am



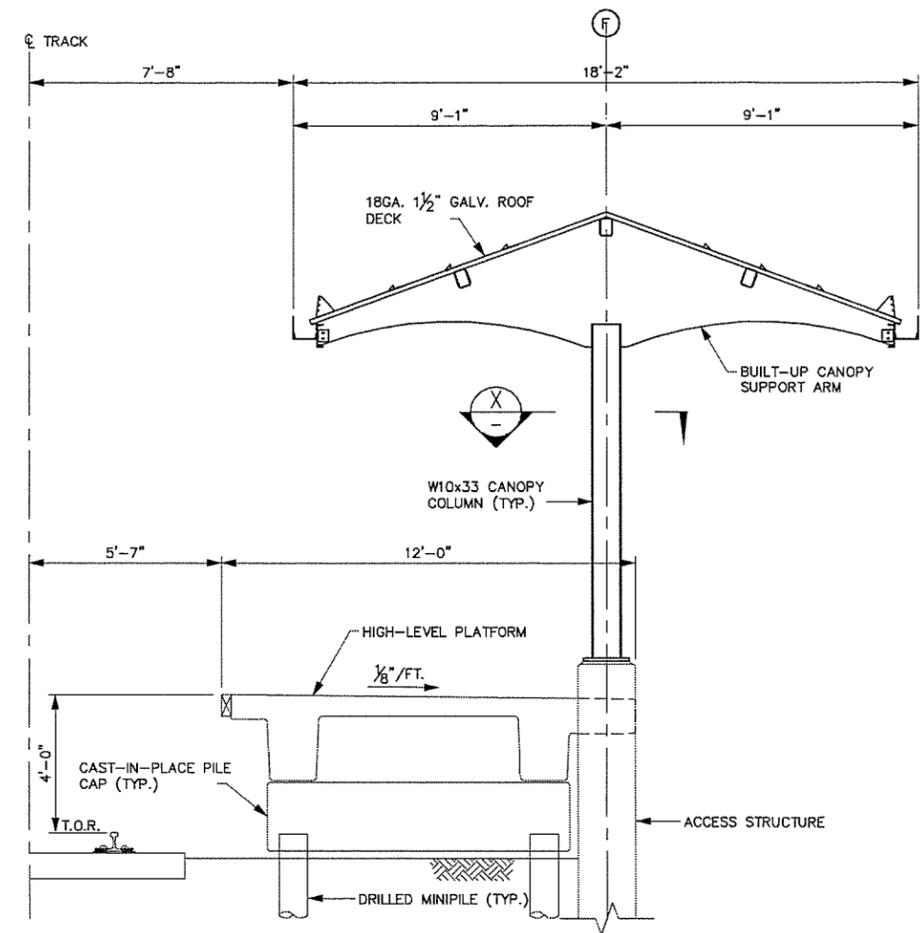
PLATFORM CANOPY ELEVATION

SCALE: 3/8" = 1'-0"



HALF PLATFORM CANOPY CROSS SECTION

SCALE: 3/8" = 1'-0"



FULL PLATFORM CANOPY CROSS SECTION

SCALE: 3/8" = 1'-0"

NOTES:

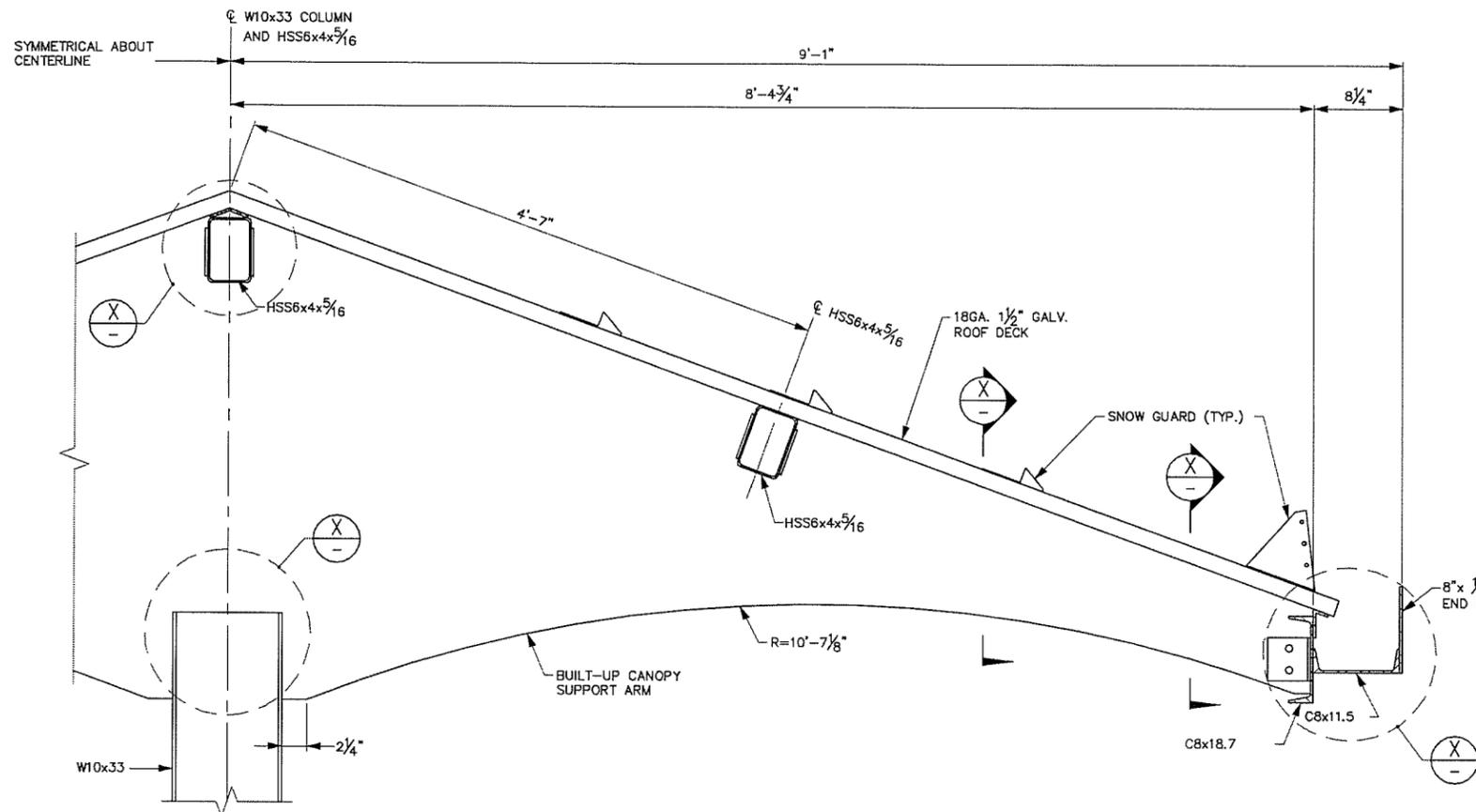
1. FOR GENERAL NOTES, SEE SHEET S-100.
2. THE CONTRACTOR SHALL COORDINATE STRUCTURAL AND ARCHITECTURAL DRAWINGS, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE STEEL FABRICATION BEGINS.
3. FOR SIGN, COMMUNICATION AND LIGHTING DETAILS REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS.
4. ALL STEEL ELEMENTS SHALL BE HOT-DIP GALVANIZED UNLESS OTHERWISE NOTED.
5. FOR ADDITIONAL CANOPY DETAILS, REFER TO THE ARCHITECTURAL, CIVIL AND ELECTRICAL DRAWINGS.

60% SUBMITTAL
 NOT FOR CONSTRUCTION

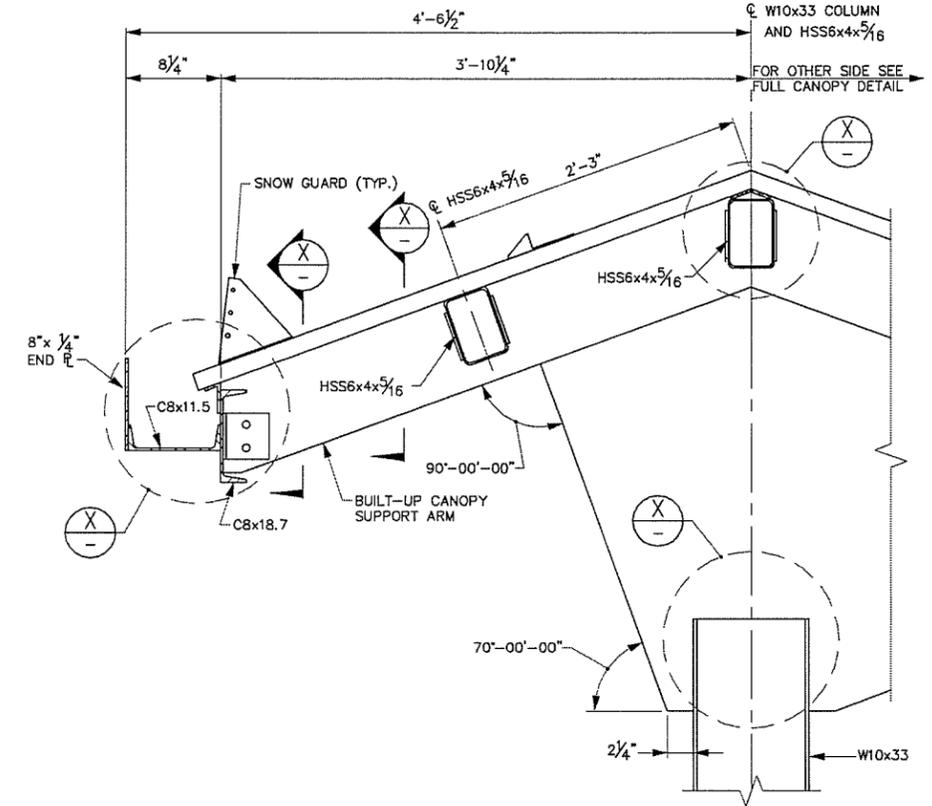
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION PLATFORM CANOPY DETAILS SHEET 1	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER HORIZ: AS NOTED VERT: AS NOTED DATE: 09/30/10		DATE DES. BY: JAG DR. BY: JAG CHK. BY: MWT	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-6000	

NOTES:

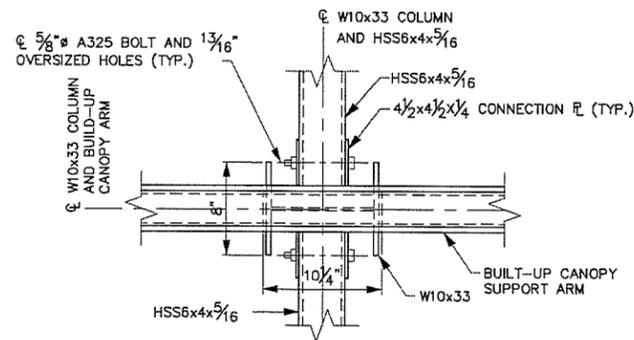
- FOR GENERAL NOTES, SEE SHEET S-100.
- FOR ADDITIONAL DETAILS, SEE ARCHITECTURAL PLANS.



FULL CANOPY SUPPORT ARM
SCALE: 1 1/2" = 1'-0"

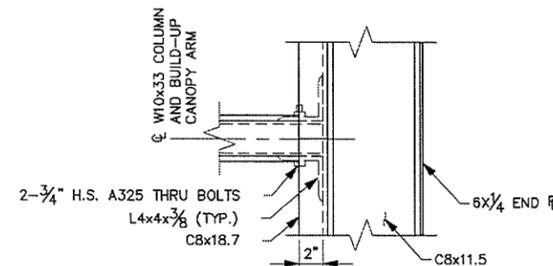


HALF CANOPY SUPPORT ARM
SCALE: 1 1/2" = 1'-0"



NOTE:
METAL ROOF DECK NOT SHOWN FOR CLARITY

PART PLAN AT COLUMN
SCALE: 1 1/2" = 1'-0"



NOTE:
METAL ROOF DECK NOT SHOWN FOR CLARITY

PART PLAN AT GUTTER LINE
SCALE: 1 1/2" = 1'-0"

60% SUBMITTAL
NOT FOR CONSTRUCTION

T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
FITCHBURG COMMUTER RAIL LINE
IMPROVEMENT PROJECT
CONTRACT NO. G67PS01

SOUTH ACTON STATION
PLATFORM CANOPY DETAILS
SHEET 2

HNTB 300 APOLLO DRIVE
CHELSEA, MA 02124
(978) 905-1000

MASSACHUSETTS BAY TRANSPORTATION
AUTHORITY

APPROVED BY:

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT MANAGER	DATE	DIRECTOR OF OPERATIONS SUPPORT	DATE

JACOBS 343 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222

HORIZ: AS NOTED
VERT: AS NOTED
DATE: 09/30/10

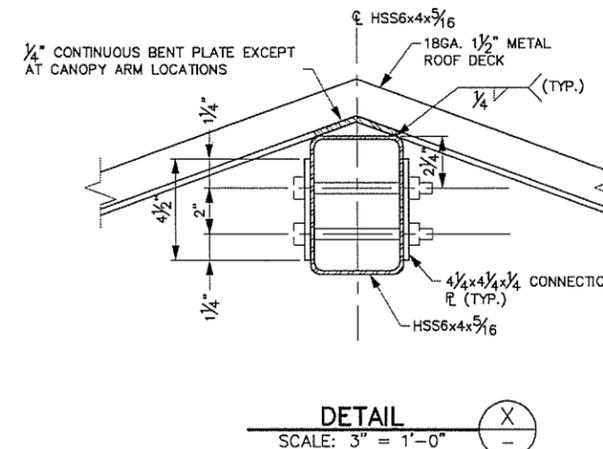
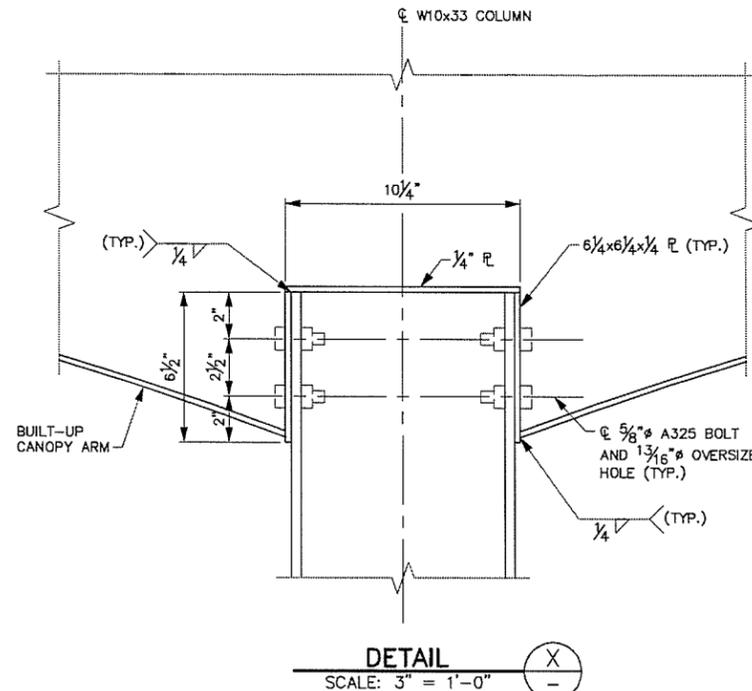
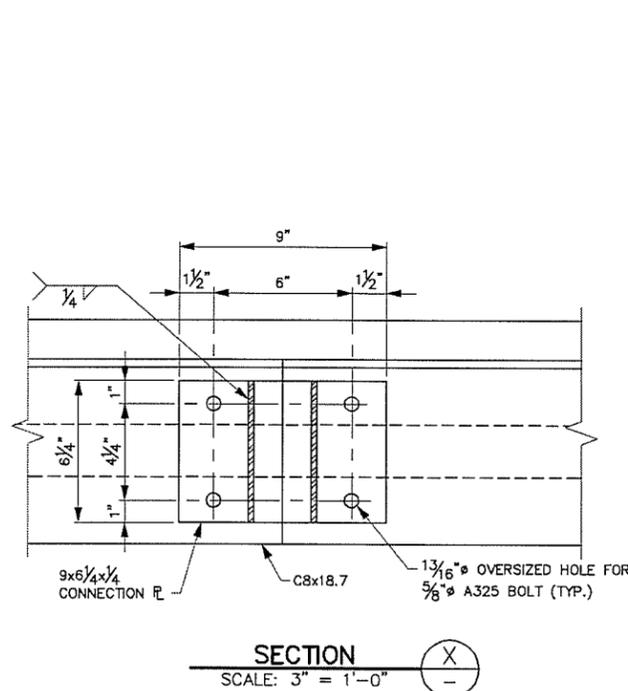
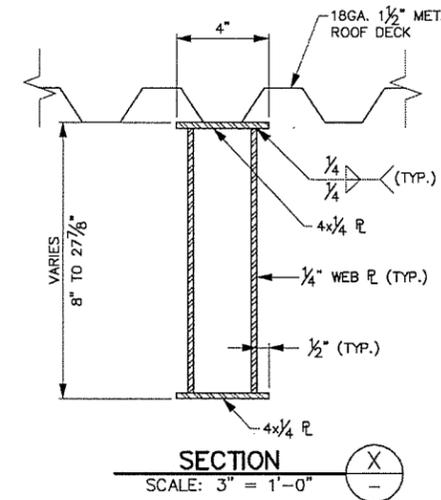
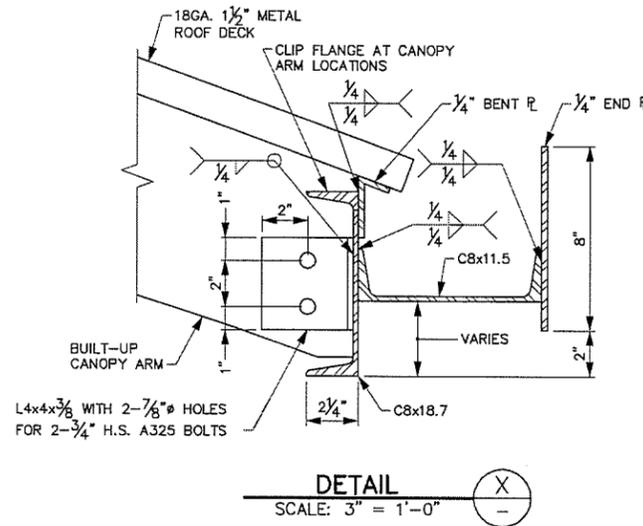
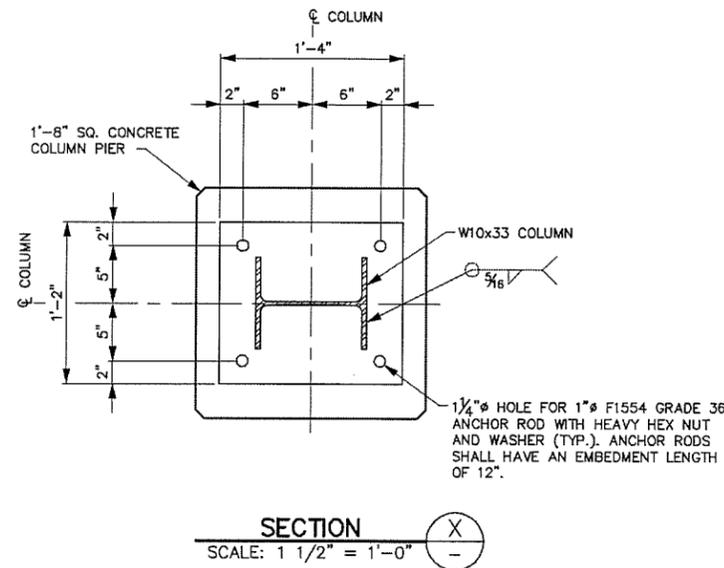
DES. BY: JAG
DR. BY: JAG
CHK. BY: MWT

PLAN NO.
SHEET S-129 OF

FILE NAME: \\BOSFIL11\dotg2\mal...proj\MBTA\2008\2008\02\37800\CAD\700CA00\7025TATIONS\South Acton\Structure\60% Submission\128_130_Canopy_Details.dwg
PLOT DATE: Sep 22, 2010 - 8:36am

NOTES:

1. FOR GENERAL NOTES, SEE SHEET S-100.
2. FOR ADDITIONAL DETAILS, SEE ARCHITECTURAL PLANS.

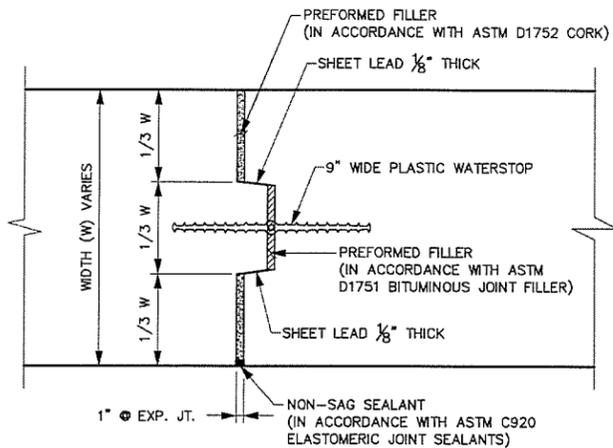


60% SUBMITTAL
NOT FOR CONSTRUCTION

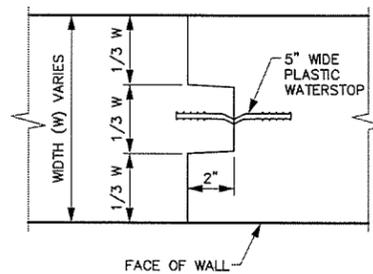
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PLOT DATE: Sep 22, 2010 - 8:37am

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION PLATFORM CANOPY DETAILS SHEET 3	
300 APOLLO DRIVE CHELSEA, MA 01824 (978) 905-6000		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
JACOBS 343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		PROJECT MANAGER HORIZ: AS NOTED VERT: AS NOTED DATE: 09/30/10	DATE: _____ DES. BY: JAG DR. BY: JAG CHK. BY: MWT PLAN NO. SHEET S-130 OF

FILE NAME: \\BOSFIL11\1\proj\MBTA\2008\NAI\proj\MBTA\2008\E2X37860\CAD\700CAD\702STATIONS\South Acton\Structural\60% Submission\131_Gen_Details.dwg
 PLOT DATE: Sep 22, 2010 - 8:37am

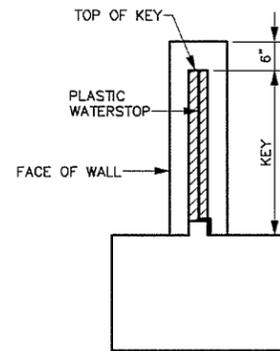


EXPANSION JOINT DETAIL
NOT TO SCALE



CONSTRUCTION JOINT KEY DETAIL
NOT TO SCALE

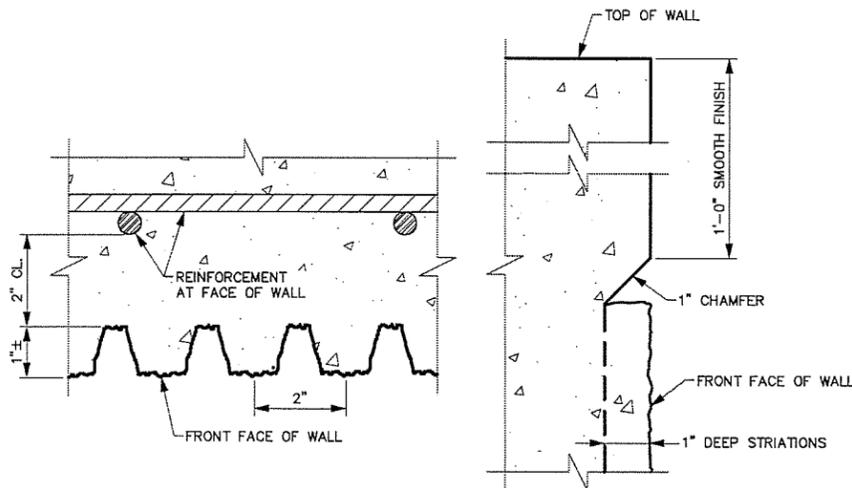
NOTE:
REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.



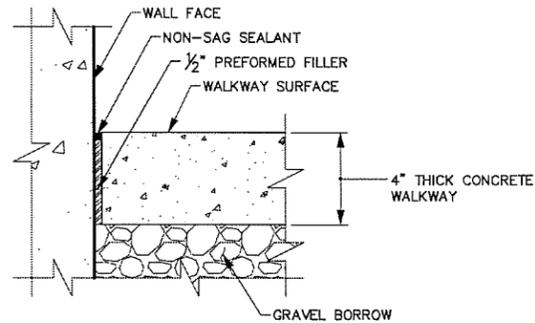
TYPICAL WALL SECTION AT CONSTRUCTION JOINT
NOT TO SCALE

NOTES:

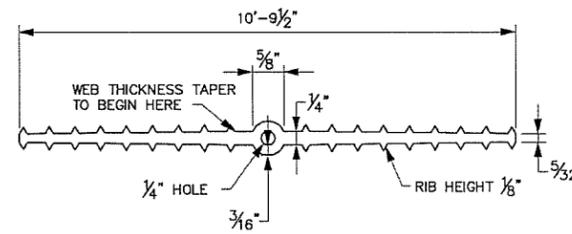
- FOR GENERAL NOTES, SEE SHEET S-100.
- EXPANSION JOINTS IN WALLS SHALL BE SPACED AT 72' MAXIMUM UNLESS OTHERWISE NOTED AND SHALL BE LEVEL AND PLUMB.
- CONSTRUCTION JOINTS IN WALLS SHALL BE SPACED AT 24' MAXIMUM UNLESS OTHERWISE NOTED AND SHALL BE LEVEL AND PLUMB.
- REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS AND END 2" CLEAR AT EXPANSION JOINTS.
- FILLER MATERIAL SHALL BE FASTENED SECURELY TO ONE SIDE OF JOINT.



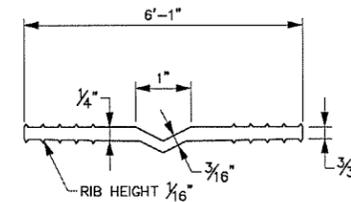
TYPICAL STRIATION DETAIL
NOT TO SCALE



TYPICAL WALKWAY JOINT AT WALL
NOT TO SCALE



9" PLASTIC WATERSTOP
NOT TO SCALE



5" PLASTIC WATERSTOP
NOT TO SCALE

60% SUBMITTAL
NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION GENERAL STRUCTURAL DETAILS	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ Date: _____ DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER HORIZ: AS NOTED VERT: AS NOTED DATE: 09/30/10		DATE: 09/30/10 PLAN NO. XXX SHEET S-131 OF	

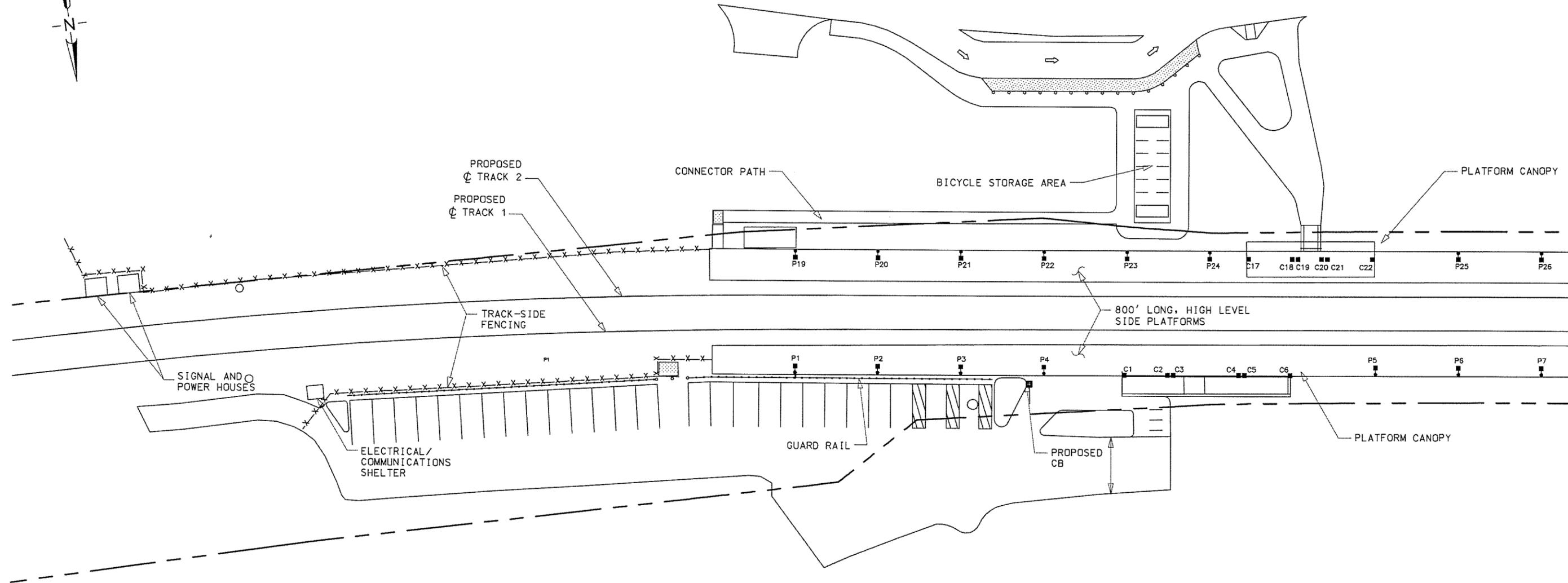
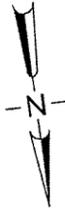
ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

JACOBS 343 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222

EAST TO BOSTON

WEST TO FITCHBURG

TOWN OF ACTON

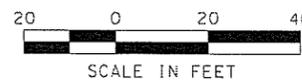


MATCH LINE STA. 1334+00 SEE SHEET E-2

PLAN - EAST END

LEGEND:

■ PLATFORM, STAIRS AND ELEVATORS



60% SUBMITTAL
NOT FOR CONSTRUCTION



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
FITCHBURG COMMUTER RAIL LINE
IMPROVEMENT PROJECT
CONTRACT NO. G67PS01

**SOUTH ACTON STATION
ELECTRICAL SITE PLAN - EAST END
SHEET 1 OF 2**



300 APOLLO DRIVE
CHELSEA, MA 01824
(978) 905-4000

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

DIRECTOR OF OPERATIONS SUPPORT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

JACOBS
343 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222

PROJECT MANAGER	DATE	DIRECTOR OF OPERATIONS SUPPORT	DATE
HORIZ: AS SHOWN	DES. BY: RJW	CHK. BY: JPH	PLAN NO.
VERT: NONE	DATE: 09/30/10	WTG	SHEET E1 OF

FILE NAME: P:\MBTA\2008\22\37800\CAD\7000ADD\702STATIONS\South Acton\Electrical\E-1 & E-2 Electrical Site Plans.dwg
PLOT DATE: Sep 22, 2010 - 9:20am

EAST TO BOSTON

WEST TO FITCHBURG
TOWN OF ACTON

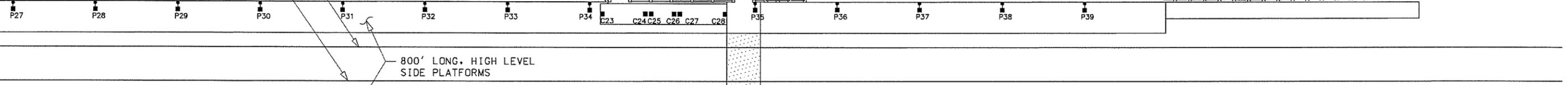


MATCH LINE STA. 1334+00 SEE SHEET E1

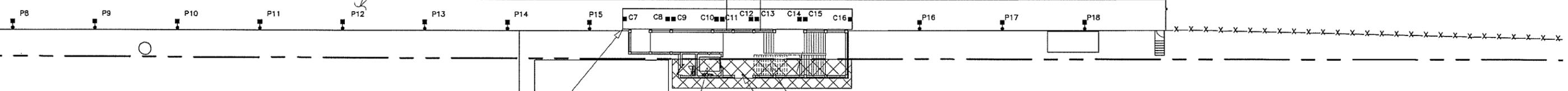
PROPOSED TRACK 2
PROPOSED TRACK 1

STAIRWAY AND ELEVATOR TO OVERHEAD PEDESTRIAN BRIDGE

PLATFORM CANOPY



800' LONG, HIGH LEVEL SIDE PLATFORMS



PLATFORM CANOPY

ELEVATOR TO PEDESTRIAN BRIDGE

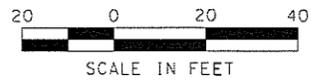
STAIRS TO PLATFORM AND PEDESTRIAN BRIDGE
MAIN STATION ENTRANCE

PLAN - WEST END

LEGEND:

PERMANENT EASEMENT

PLATFORM, STAIRS AND ELEVATORS



60% SUBMITTAL
NOT FOR CONSTRUCTION



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
FITCHBURG COMMUTER RAIL LINE
IMPROVEMENT PROJECT
CONTRACT NO. G67PS01

SOUTH ACTON STATION
ELECTRICAL SITE PLAN - WEST END
SHEET 2 OF 2



300 APOLLO DRIVE
CHELSEA, MA 01824
(978) 955-1000

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

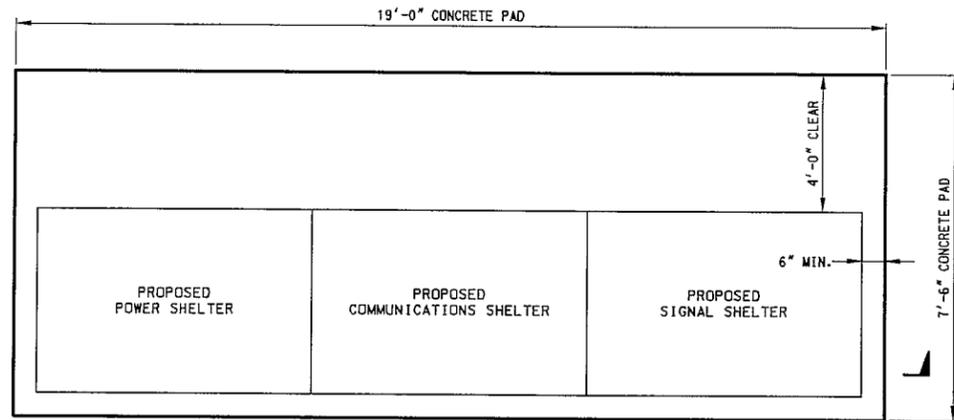
DIRECTOR OF OPERATIONS SUPPORT



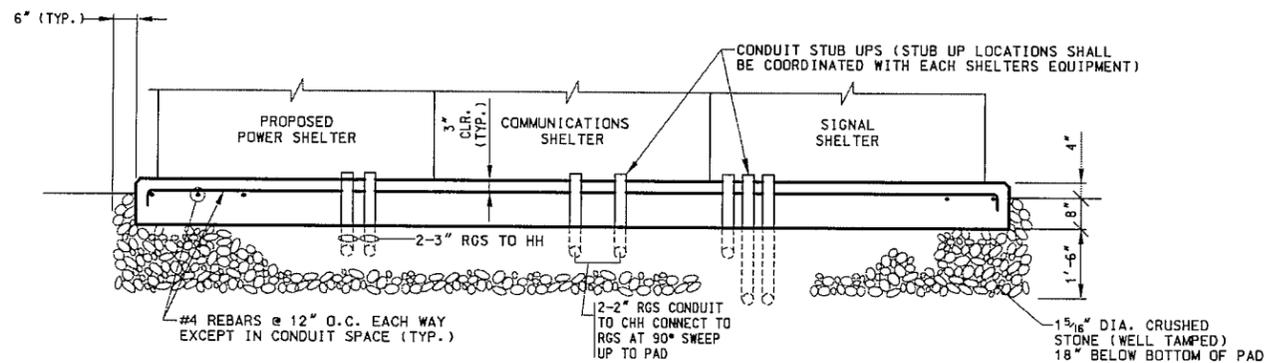
345 CONGRESS STREET
BOSTON, MA 02110
(617) 242-9222

PROJECT MANAGER	DATE	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
HORIZ: AS SHOWN		RJW	JPH	WTG		
VERT: NONE						
DATE: 09/30/10					SHEET E2	OF

FILE NAME: P:\METRA\2009\EX37900\CAD\700CADD\702STATIONS\South Acton\Electrical\E-1 & E-2 Electrical Site Plans.dwg
PLOT DATE: Sep 22, 2010 - 9:20am



PLAN



SECTION B
SHELTER PAD DETAIL
NOT TO SCALE

LIGHT FIXTURE SCHEDULE					
SYMBOL	MANUFACTURER / CATALOG No.	LAMP TYPE / WATTS	MOUNTING	VOLTS	REMARKS
P	KIM/1SA/SAR2/175MH240/LG-P/LS/PRA12-34188 GARDCO - (EQUIVALENT) LITHONIA - (EQUIVALENT)	METAL HALIDE 175W	POLE	240	PLATFORM/WALKWAY LIGHTING SINGLE FIXTURE-FORWARD THROW/FULL CUT-OFF
P	KIM/2SB/SAR2/175MH240/LG-P/LS/PRA12-34188 GARDCO - (EQUIVALENT) LITHONIA - (EQUIVALENT)	METAL HALIDE 175W (QTY 2)	POLE	240	PLATFORM/WALKWAY LIGHTING TWIN FIXTURE
C	INSIGHT	METAL HALIDE 100W	SURFACE	240	CANOPY DOWNLIGHT

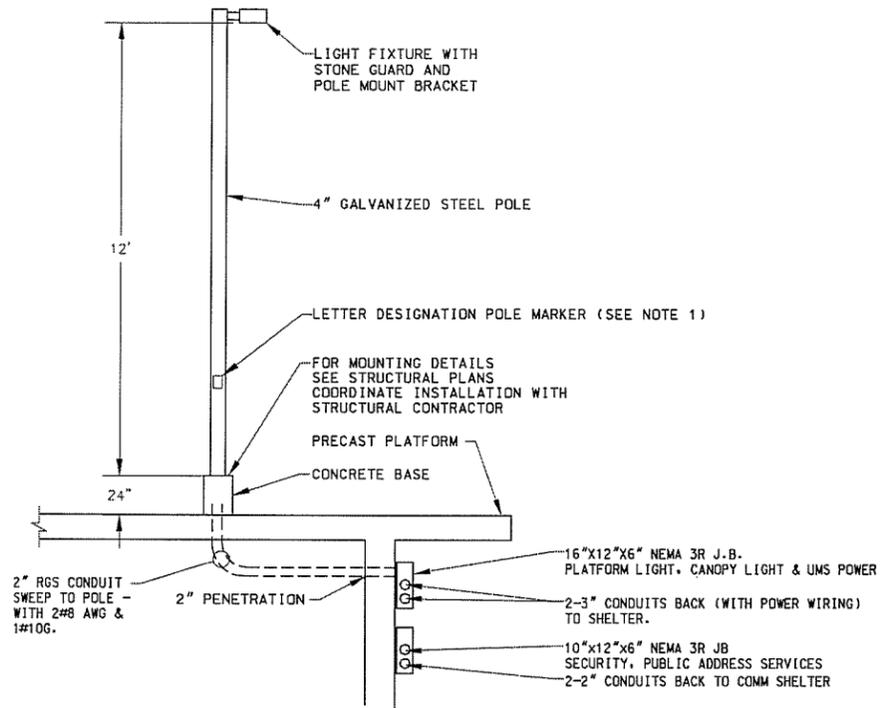
FILE NAME: P:\MBTA\2008\E2\37800\CAD\7000CAD\702STATIONS\South Acton\Electrical\Station Electrical Site Details 1.dwg
 PLOT DATE: Sep 22, 2010 - 9:20am

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NOT FOR CONSTRUCTION

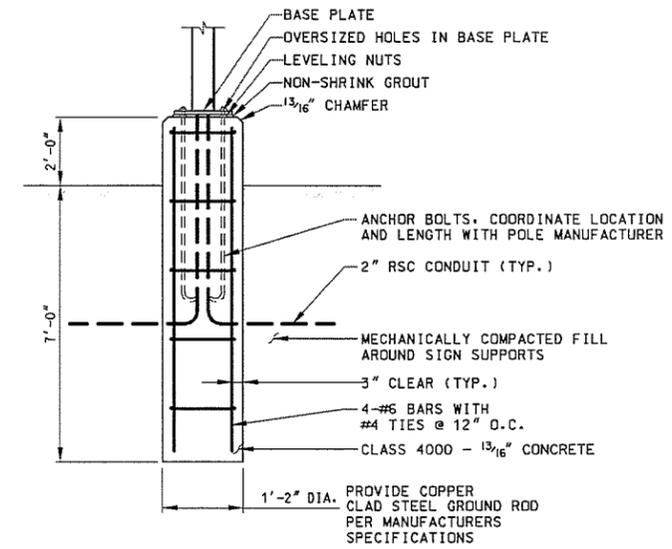
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION ELECTRICAL DETAILS SHEET 1	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
		DATE: 09/30/10	

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

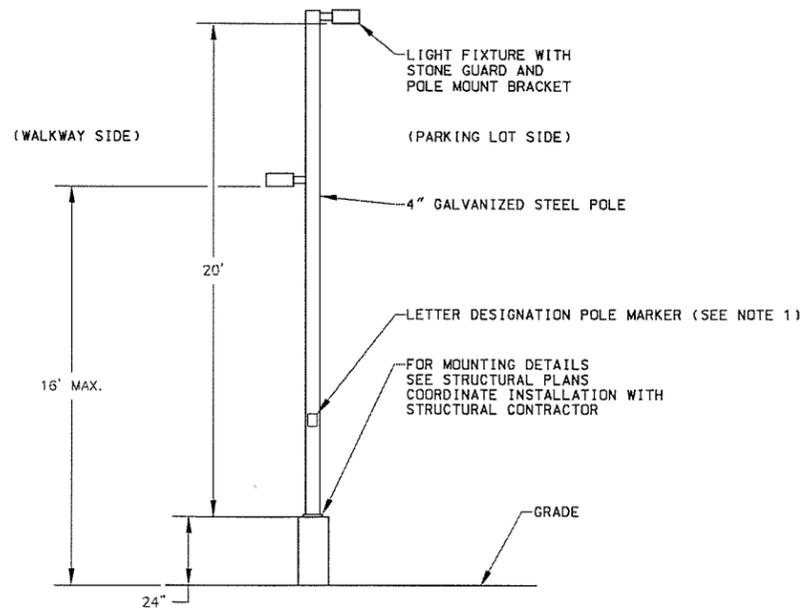
		343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222	
PROJECT MANAGER HORIZ: _____ VERT: _____ DATE: 09/30/10		Date DES. BY: RJW DR. BY: JPH CHK. BY: WTG	



LIGHT STANDARD DETAIL #1
TYPICAL FOR PLATFORMS
 NOT TO SCALE



LIGHT POLE FOUNDATION DETAIL - PARKING AREA
 NOT TO SCALE

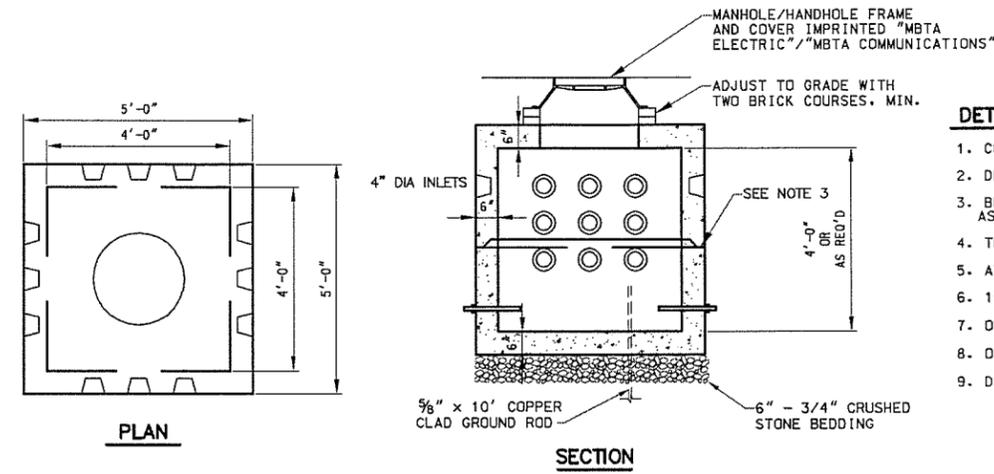


LIGHT STANDARD DETAIL #2
TYPICAL FOR WALKWAY/PARKING AREA
 NOT TO SCALE

60% SUBMITTAL
 NOT FOR CONSTRUCTION

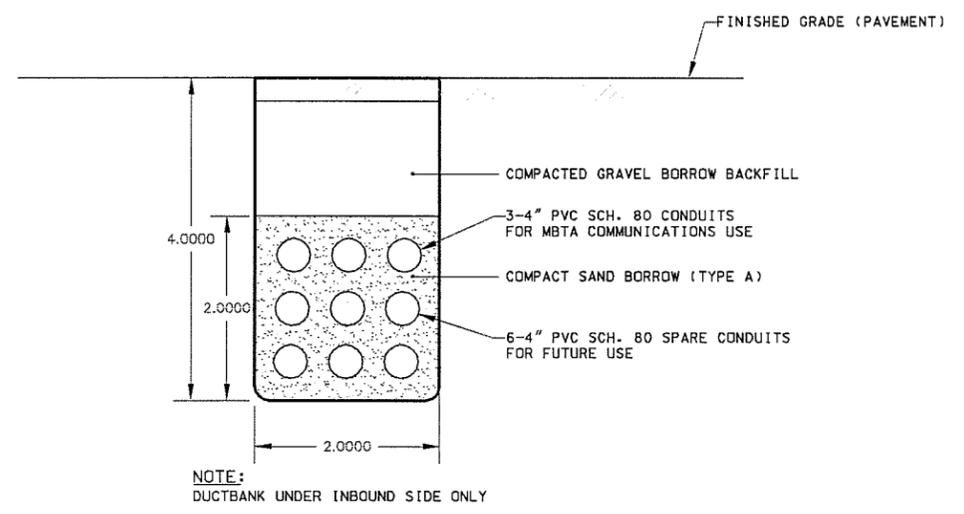
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 PLOT DATE: Sep 22, 2010 9:20am

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
		SOUTH ACTON STATION ELECTRICAL DETAILS SHEET 2	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY:	
		PROJECT MANAGER: _____ DATE: 09/30/10	
343 CONGRESS STREET BOSTON, MA 02110 (617) 242-9222		DIRECTOR OF OPERATIONS SUPPORT: _____ DATE: 09/30/10	
HORIZ: _____ VERT: _____ DATE: 09/30/10		DES. BY: RJW CHK. BY: JPH DATE: 09/30/10	
PLAN NO. _____ SHEET E4 OF _____		ISSUE _____ 	

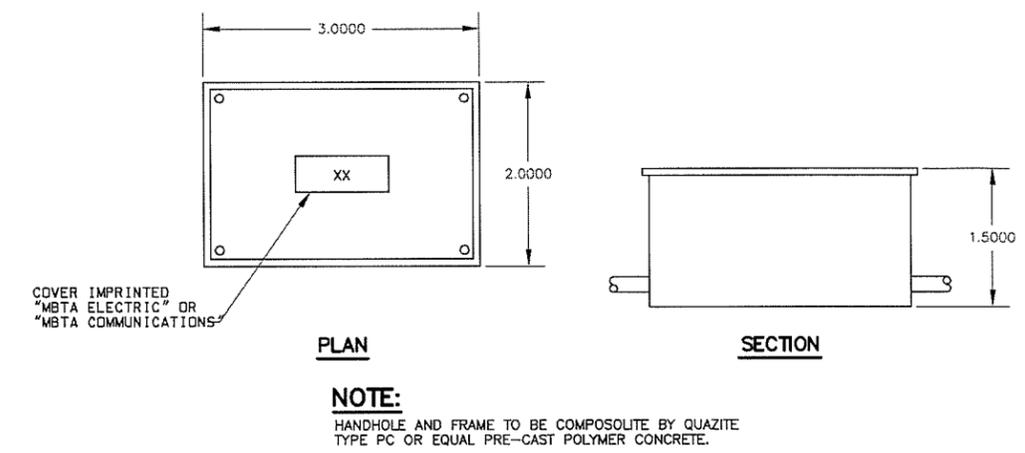


POWER/COMMUNICATIONS/CONTROL MANHOLE DETAIL
NOT TO SCALE

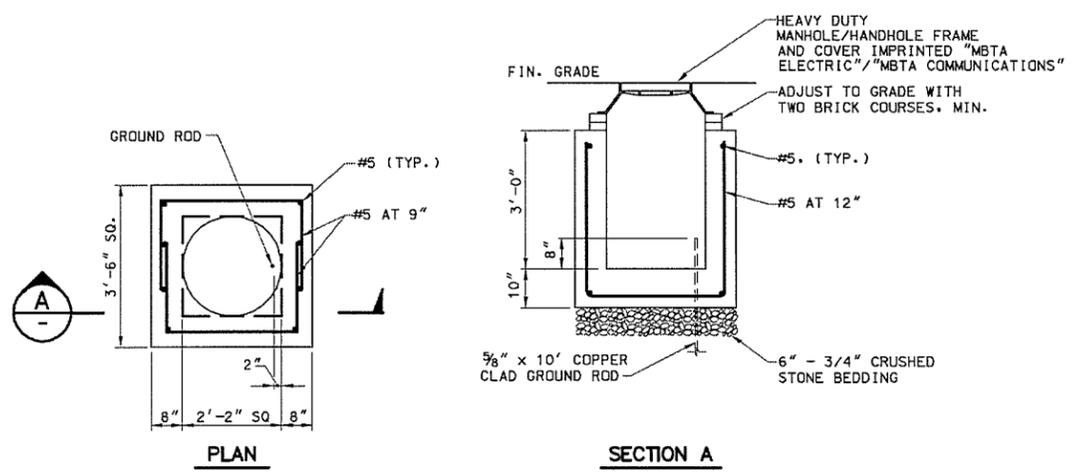
- DETAIL NOTES:**
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 2. DESIGNED FOR H-20 LOADING.
 3. BUTYLE RESIN JOINT CONFORMS TO LATEST ASTM C443 SPEC.
 4. TOP CAN BE POURED SEPARATE OR MONOLITHICALLY.
 5. AVAILABLE WITH OR WITHOUT PULLING EYES.
 6. 16 PLASTIC PIPE SEAL INLETS PER SECTION.
 7. OTHER HEIGHTS ALSO AVAILABLE.
 8. OPTIONAL 30" OPENING AVAILABLE.
 9. DETAIL TYPICAL FOR STRUCTURES SHH1, 1A AND 2.



COMMUNICATION AND SIGNAL DUCTBANK DETAIL UNDER PARKING/WALKWAY AREA
NOT TO SCALE



PULLBOX (PB) AND SIGNAL/COMMUNICATION HANDHOLE DETAIL
NOT TO SCALE

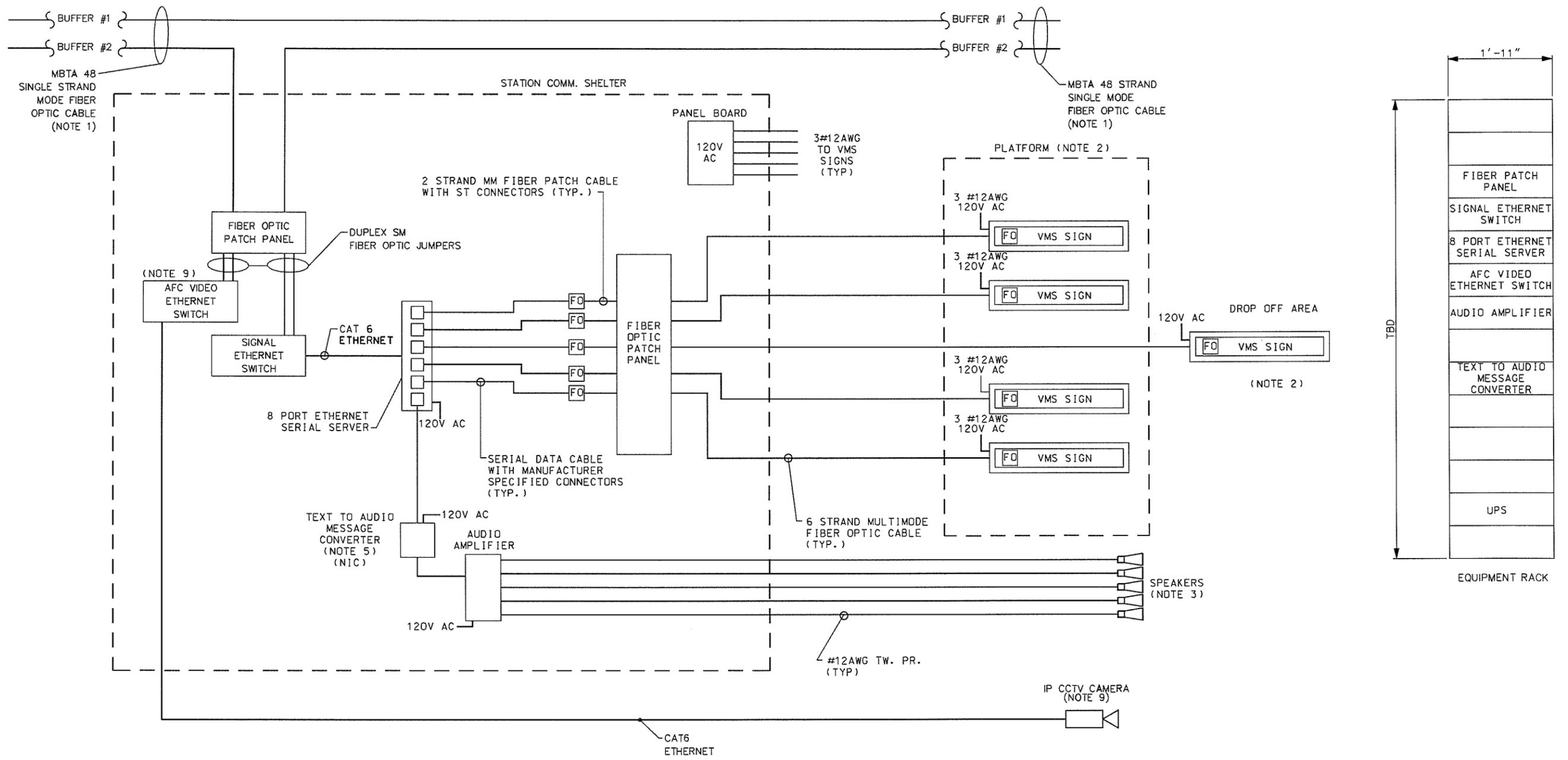


TYPICAL ELECTRIC HANDHOLE DETAIL
NOT TO SCALE

60% SUBMITTAL
NOT FOR CONSTRUCTION

T	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO. G67PS01	
SOUTH ACTON STATION ELECTRICAL DETAILS SHEET 3		
HNTB	300 APOLLO DRIVE CHELMSFORD, MA 01824 (978) 909-4000	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
	APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
PROJECT MANAGER	DATE	DATE
HORIZ: AS NOTED	DEL. BY: RW	DR. BY: JPH
VERT: N/A	CHK. BY: WTC	DATE: 09/30/10
DATE: 09/30/10	PLAN NO. E-5	ISSUE
	SHEET OF	

FILE NAME: P:\MBTA\2008\EX2\37800\CAD\700CA0D\702STATIONS\South Acton\Electrical\ Station Electrical Site Details 3.dwg
PLOT DATE: Sep 22, 2010 - 9:20am



- NOTES**
- REFER TO NETWORK DIAGRAMS FOR FIBER PTIC STRAND ASSIGNMENTS AND TERMINATIONS.
 - EACH PAIR OF SIGNS ARE TO BE INSTALLED BACK-TO-BACK. FINAL LOCATION OF VMS SIGNS IS TO BE APPROVED BY THE ENGINEER.
 - LOUDSPEAKERS ARE TO BE LOCATED AT VMS SIGN LOCATION.
 - EACH VMS SHALL INCLUDE A SMALL PATCH PANEL FOR TERMINATING AND PATCHING THE 6 STRAND MM FIBER OPTIC CABLE.
 - TEXT TO AUDIO MESSAGE CONVERTER IS TO BE PROVIDED BY THE RAILROAD.
 - LOUDSPEAKER CABLING SHOWN DIAGRAMMATICALLY, ACTUAL AUDIO DISTRIBUTION CONFIGURATION MAY VARY.
 - ALL EXTERNAL CABLES SHALL BE IN 3/4"GRS CONDUIT.
 - PROVIDE AFC CCTV EQUIPMENT AT WALTHAM AND S. ACTON ONLY. FINAL CAMERA LOCATION IS TO BE APPROVED BY THE ENGINEER.

60% SUBMITTAL
NOT FOR CONSTRUCTION

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY FITCHBURG COMMUTER RAIL LINE IMPROVEMENT PROJECT CONTRACT NO.G67PS01	
		STATION COMMUNICATIONS DIAGRAM - TYPICAL	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ DIRECTOR OF OPERATIONS SUPPORT	
JACOBS <small>343 CONGRESS STREET BOSTON, MA 02210 (617) 242-9222</small>		PROJECT MANAGER: N.T.S. DATE: _____ DES. BY: SSGSMG DR. BY: MP CHK. BY: _____ DATE: _____	
PLAN NO. _____ SHEET COM-006		DATE: _____ ISSUE NO. _____	

DATE\$ FILE\$ XREF FILES: