

ABBREVIATIONS

AC	ASPHALT CONCRETE
ACWS	ASPHALT CONCRETE WEARING SURFACE
APPROX	APPROXIMATE
Ave	AVENUE
BFG	BELOW FINISH GRADE
Blvd	BOULEVARD
BWL	BUSWAY LEFT CONTROL LINE
BWR	BUSWAY RIGHT CONTROL LINE
CB	CATCH BASIN
CF	CUBIC FOOT
CJ	CONTROL JOINT
⊕	CENTER LINE
Clr	CLEAR
Conc	CONCRETE
CTL	CONTROL LINE
CY	CUBIC YARD
Dia	DIAMETER
DIP	DUCTILE IRON PIPE
DPT	DEPARTMENT OF PARKING AND TRAFFIC
DPW	DEPARTMENT OF PUBLIC WORKS
DWG	DRAWING
(E)	EXISTING
EA	EACH
Exp Jt	EXPANSION JOINT
Elev	ELEVATION
FG	FINISHED GRADE
F/I	FURNISH AND INSTALL
ft	FEET
ID	INSIDE DIAMETER
IN	INCH
Jt	JOINT
KJ	KEY JOINT
LF	LINEAR FOOT
LRV	LIGHT RAIL VEHICLE
Max	MAXIMUM
MH	MANHOLE
Min	MINIMUM
(N)	NEW
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
PI	POINT OF INTERSECTION
P/L	PROPERTY LINE
REV	REVISION
ROW	RIGHT OF WAY
SCH	SCHEDULE
Sim	SIMILAR
St	STREET
Std	STANDARD
STL	STEEL
TP	TRACTION POWER
Typ	TYPICAL
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD

GENERAL NOTES


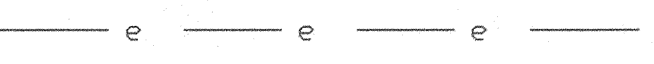




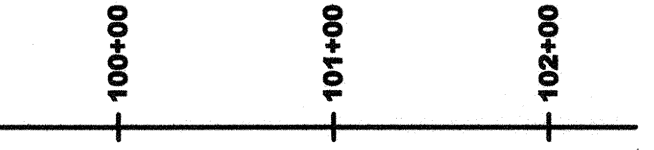
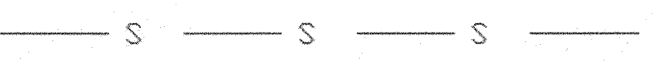
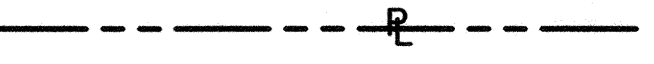

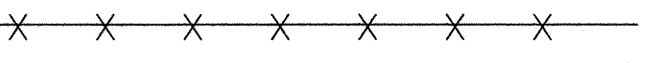

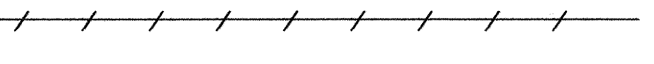

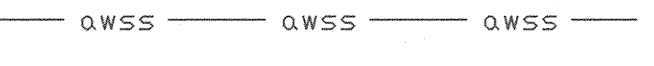

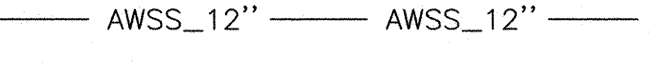
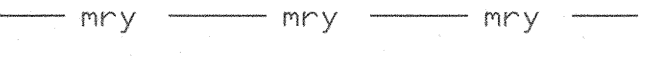
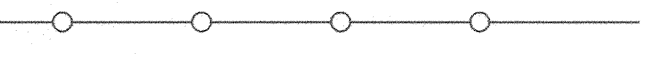


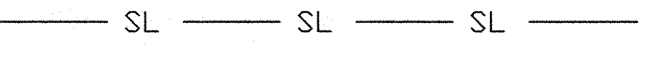
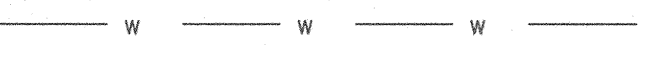
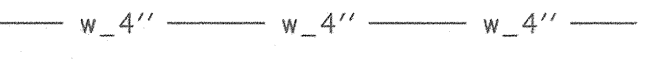
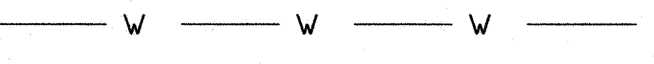
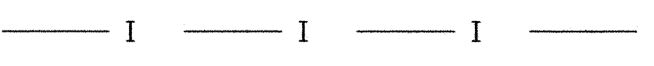
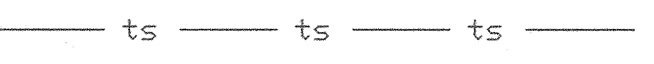
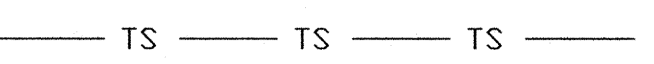


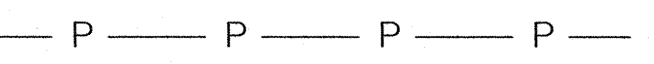
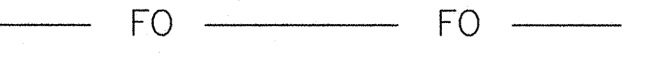
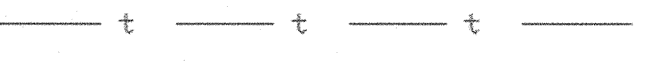
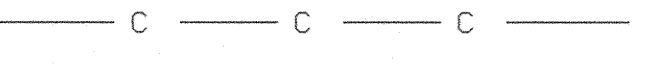
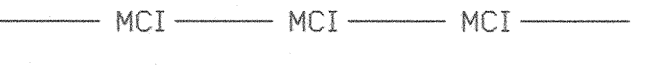

- FOR ACCURATE RIGHT-OF-WAY DATA, CONTACT CALTRANS RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXISTING UTILITY INFORMATION IS BASED ON RECORD RECEIVED FROM UTILITY AGENCIES. THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. ACTUAL LOCATIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES AT LEAST SEVEN (7) DAYS PRIOR TO EXCAVATION.
- THE DESIGNS FOR IMPROVEMENTS SHOWN ON THE UTILITY COMPOSITE ARE INCLUDED IN OTHER PLANS FOR THIS CONTRACT. COORDINATE WORK WITH ALL OTHER DISCIPLINES, INCLUDING PLANS PROVIDED BY UTILITY AGENCIES AND PLANS TO BE PROVIDED BY CONTRACTOR.

- REFER TO CV DRAWING FOR CIVIL IMPROVEMENTS INCLUDING BUSWAY, BOARDING ISLANDS AND LANDSCAPED MEDIANS.
- REFER TO RD DRAWINGS FOR CURB RAMP AND MIXED-FLOW TRAFFIC LANES IMPROVEMENTS.
- REFER TO AR DRAWINGS FOR ARCHITECTURAL IMPROVEMENTS ON THE BOARDING ISLANDS.
- REFER TO LA DRAWINGS FOR LANDSCAPING IMPROVEMENTS IN LANDSCAPED MEDIANS AND SIDEWALKS.
- REFER TO SL DRAWINGS FOR STREETLIGHTING IMPROVEMENTS AND DESIGN.
- REFER TO TP DRAWINGS FOR TRACTION POWER IMPROVEMENTS AND DESIGN.
- REFER TO DB DRAWINGS FOR TRACTION DUCTBANK IMPROVEMENTS AND DESIGN.
- REFER TO CN DRAWINGS FOR MUNI COMMUNICATIONS IMPROVEMENTS AND DESIGN.
- REFER TO ST DRAWINGS FOR STRUCTURAL IMPROVEMENTS AND DESIGN.
- REFER TO OV DRAWINGS FOR OVERHEAD CATENARY SYSTEM IMPROVEMENTS AND DESIGN.
- REFER TO ET DRAWINGS FOR TRAFFIC SIGNAL IMPROVEMENTS AND DESIGN.
- REFER TO SW DRAWINGS FOR SEWER SYSTEM IMPROVEMENTS AND DESIGN.
- REFER TO WD DRAWINGS FOR SFWD WATER SYSTEM IMPROVEMENTS AND DESIGN.
- REFER TO AW DRAWINGS FOR AWSS IMPROVEMENTS AND DESIGN.
- REFER TO GI DRAWINGS FOR GREEN INFRASTRUCTURE IMPROVEMENTS AND DESIGN.

4. UTILITY OWNERSHIP:

GAS - PACIFIC GAS & ELECTRIC COMPANY (PG&E)
 ELECTRICAL - PACIFIC GAS & ELECTRIC COMPANY (PG&E)
 WATER - SAN FRANCISCO PUBLIC UTILITIES COMMISSION, CITY DISTRIBUTION DEPARTMENT
 SEWER - SAN FRANCISCO PUBLIC UTILITIES COMMISSION, WASTEWATER ENTERPRISE
 TELEPHONE - AMERICAL TELEPHONE & TELEGRAPH (AT&T) CALIFORNIA
 CABLE - COMCAST, INC.
 TRAFFIC SIGNALS - SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY
 HIGH PRESSURE WATER - SAN FRANCISCO PUBLIC UTILITIES COMMISSION
 TRACTION POWER - SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY
 STREETLIGHTS - SAN FRANCISCO PUBLIC UTILITIES COMMISSION, STREET LIGHTING
 FIBER OPTICS - VERIZON BUSINESS

LEGEND

	CONDUIT NOTE REFERENCE		(E) PG&E ELECTRIC DUCTBANK (LOW RISK)
	SHEET NOTE REFERENCE		(E) PG&E GAS SERVICE (LOW RISK)
	HIGH RISK FACILITY NOTIFICATION		(E) PG&E GAS w/diameter (LOW RISK)
	CONTROL LINE		(E) SFDPW SEWER SERVICE
	EXISTING PROPERTY LINE		(E) SFDPW SEWER MAIN w/diameter
	UTILITY TO BE DEMOLISHED		(E) SFDPW SEWER w/diameter 24" or greater
	UTILITY TO BE ABANDONED		(N) SFDPW SEWER w/diameter 24" or greater
			(E) SFFD AWSS SERVICE
			(E) SFFD AWSS w/diameter
			(N) SFFD AWSS w/diameter
			MUNI TRACTION POWER
			(E) MUNI TRACTION POWER (HIGH RISK)
			(E) MUNI OVERHEAD WIRES
			(N) MUNI TRACTION POWER
			SFPUC STREET LIGHTING
			(E) SFPUC STREET LIGHT POWER
			(N) SFPUC STREET LIGHT POWER
			SFWD
			(E) SFWD WATER SERVICE
			(E) SFWD, WATER w/diameter
			(N) SFWD, WATER w/diameter
			COMMUNICATIONS
			(N) SFMTA TRAFFIC SIGNAL INTERCONNECT
			(E) SFMTA TRAFFIC SIGNAL
			(N) SFMTA TRAFFIC SIGNAL
			(N) MUNI NETWORK
			(N) MUNI TELECOM
			(N) MUNI BOARDING ISLAND POWER
			(N) MUNI FIBER OPTIC
			(E) AT&T
			(E) COMCAST
			(E) VERIZON BUSINESS
			(E) SFDT CONDUIT

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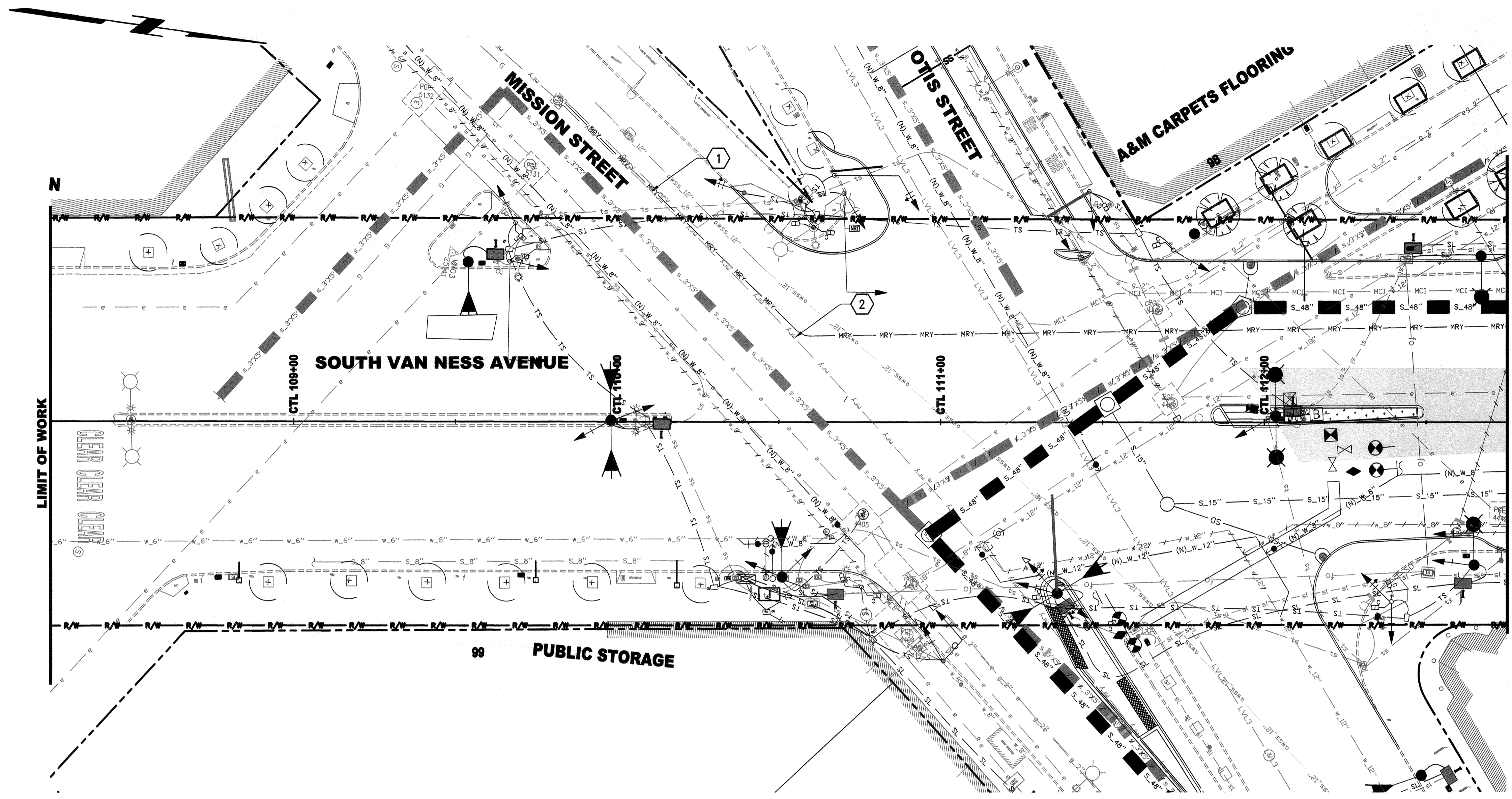
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CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY
 APPROVED
 for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM		1289
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT		
UTILITY COMPOSITE ABBREVIATIONS, GENERAL NOTES AND LEGEND		REVISION
UT-G1		0
UT-131		

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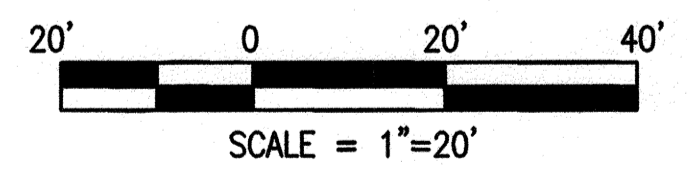
NOTES:

1. SEE UT-G1 FOR NOTES AND LEGEND.

MATCH LINE
SEE UT-104

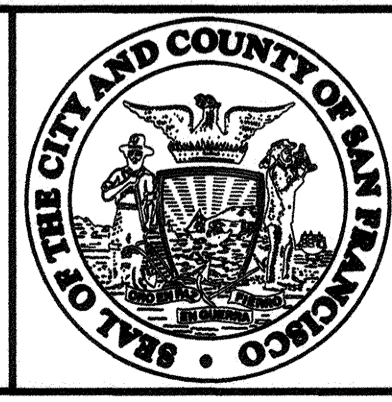
POSITIVE LOCATION INFORMATION

NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
1	CTL 110+10, 72'L	2'-10"	TP DUCTBANK	ELECTRONIC
2	CTL 110+55, 26'L	3'-7"	TP DUCTBANK	ELECTRONIC



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REVISIONS					

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APPROVED	
DATE	MAY 13 2016



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

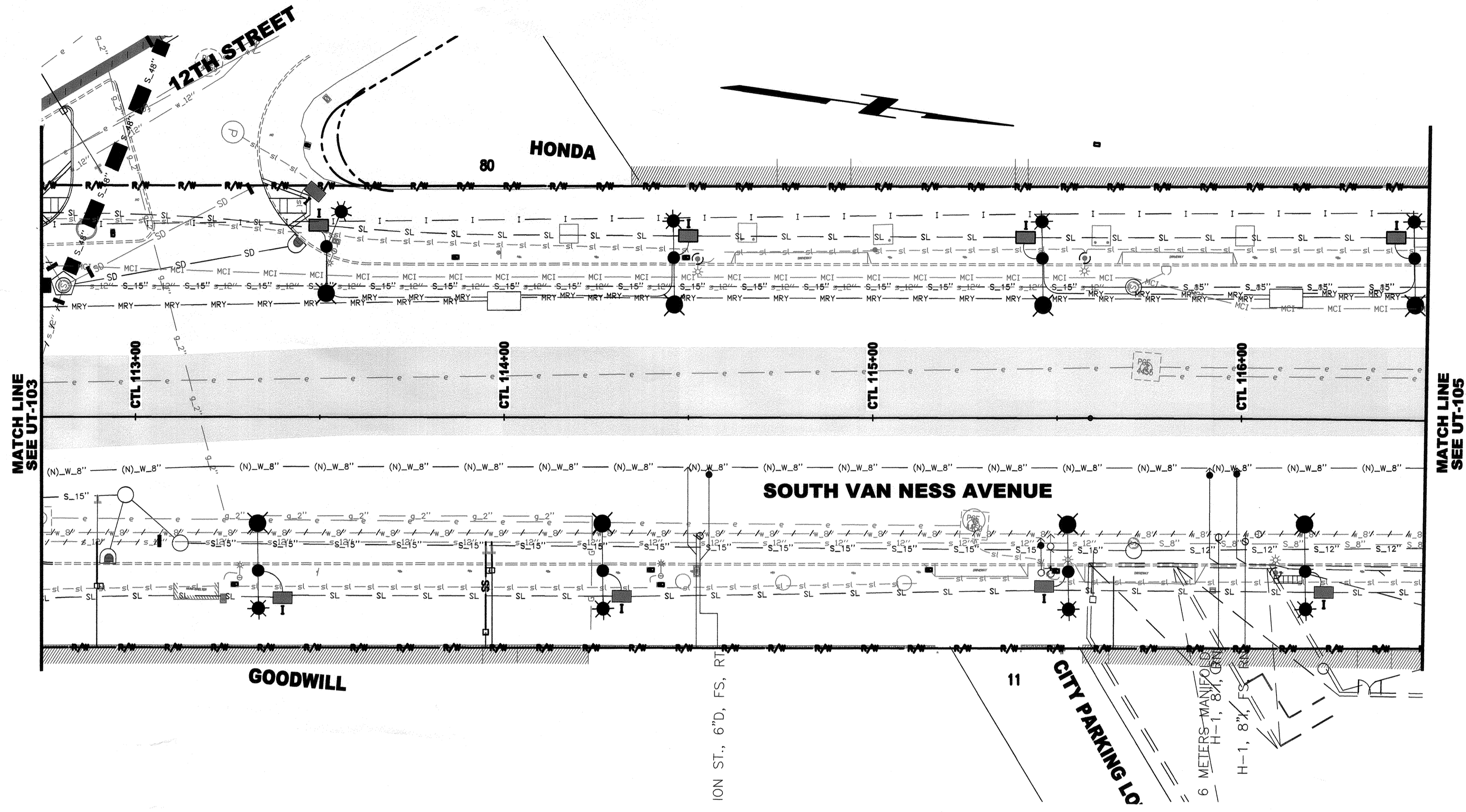
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UTILITY COMPOSITE
CTL 108+25 TO 112+75
PLAN

UT-103
UT-131

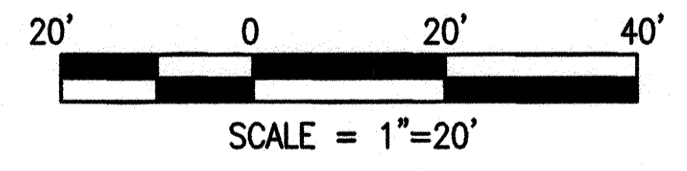
REVISION
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NOTES:

1. SEE UT-G1 FOR NOTES AND LEGEND.



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CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

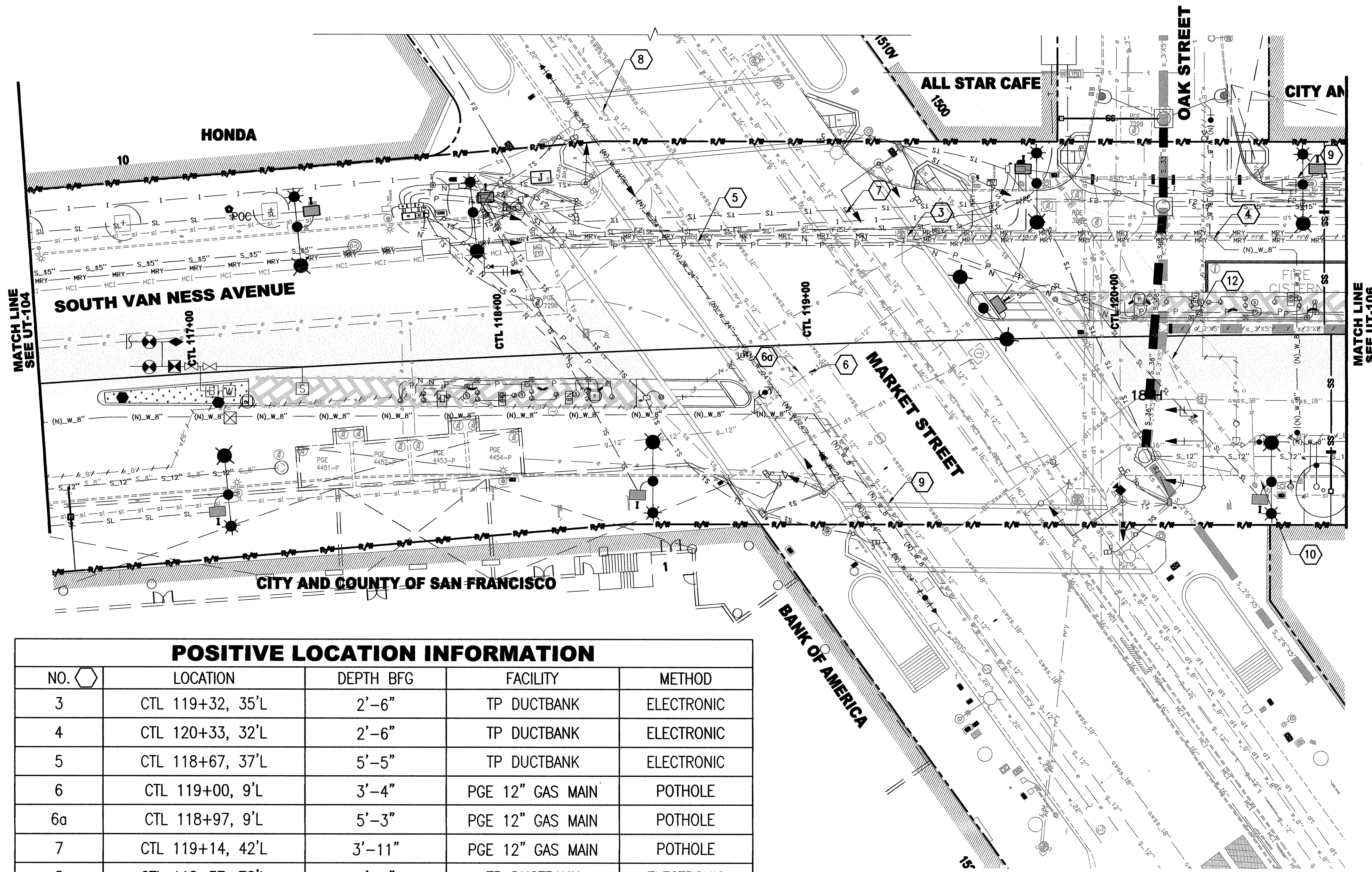
APPROVED

for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

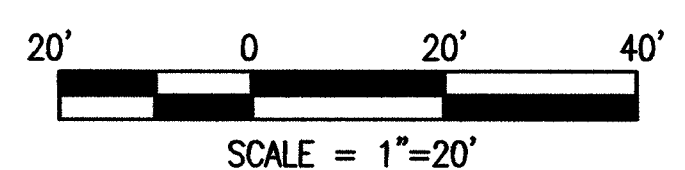
UTILITY COMPOSITE
 CTL 112+75 TO 116+50
 PLAN

1289	REVISION
UT-104	0
UT-131	



NOTES:
 1. SEE UT-G1 FOR NOTES AND LEGEND.

POSITIVE LOCATION INFORMATION				
NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
3	CTL 119+32, 35'L	2'-6"	TP DUCTBANK	ELECTRONIC
4	CTL 120+33, 32'L	2'-6"	TP DUCTBANK	ELECTRONIC
5	CTL 118+67, 37'L	5'-5"	TP DUCTBANK	ELECTRONIC
6	CTL 119+00, 9'L	3'-4"	PGE 12" GAS MAIN	POTHOLE
6a	CTL 118+97, 9'L	5'-3"	PGE 12" GAS MAIN	POTHOLE
7	CTL 119+14, 42'L	3'-11"	PGE 12" GAS MAIN	POTHOLE
8	CTL 118+37, 78'L	3'-6"	TP DUCTBANK	ELECTRONIC
9	CTL 119+24, 53'R	4'-10"	TP DUCTBANK	ELECTRONIC
10	CTL 120+47, 48'R	1'-6"	5 KV STREETLIGHT	ELECTRONIC
11	CTL 120+60, 52'L	1'-6"	5 KV STREETLIGHT	ELECTRONIC
12	CTL 120+18, 18'R	3'-0"	5 KV STREETLIGHT	ELECTRONIC



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 APPROVED _____
 DATE 6/6/16

CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

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MUNI BUS RAPID TRANSIT SYSTEM		1289
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT		
UTILITY COMPOSITE CTL 116+50 TO 120+75 PLAN		REVISION UT-105 UT-131 0

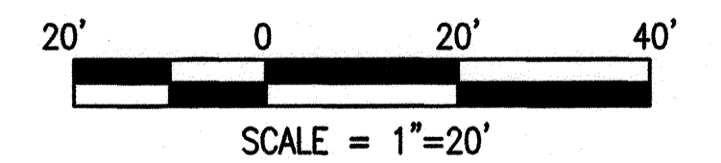
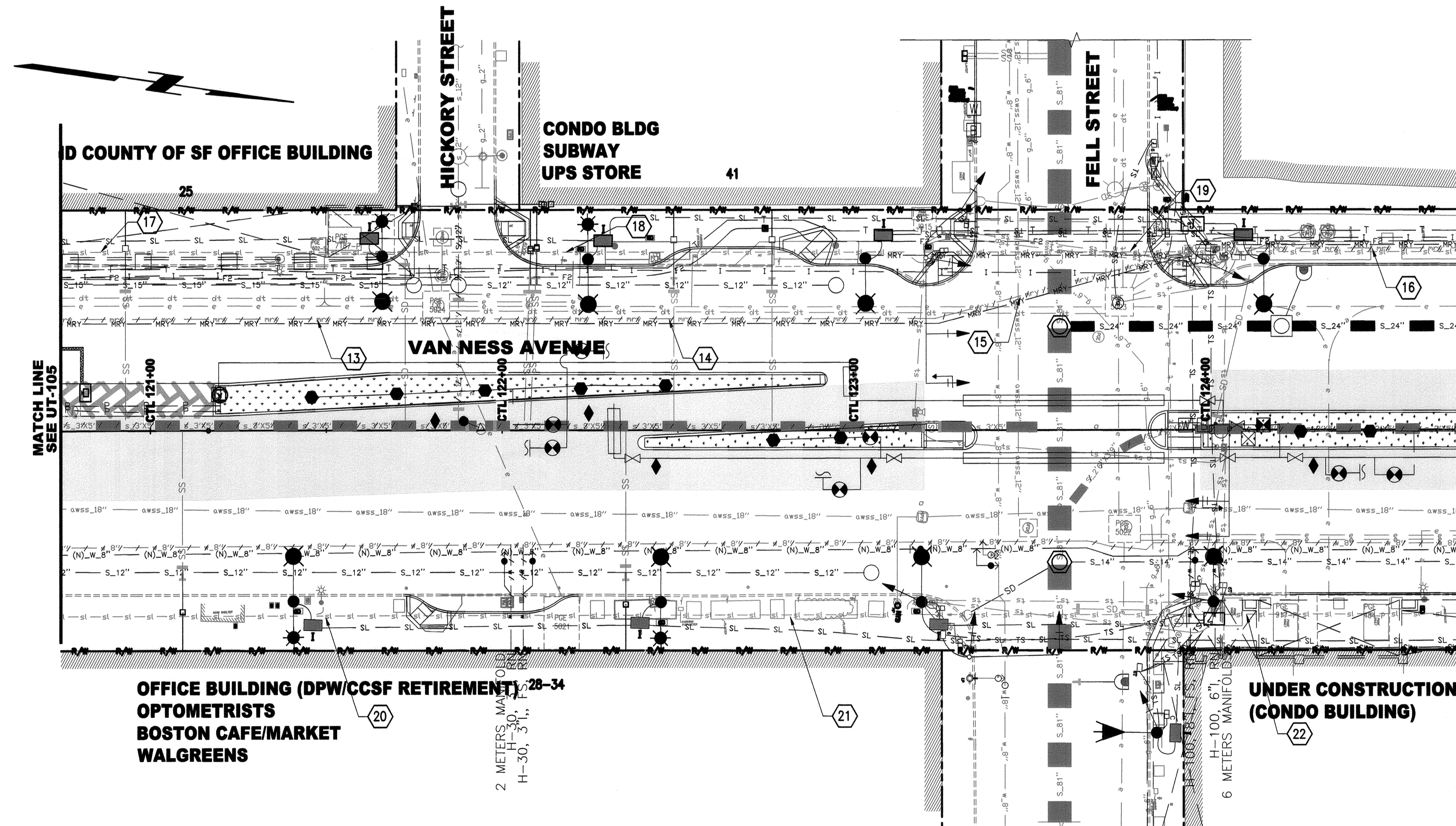
POSITIVE LOCATION INFORMATION

NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
13	CTL 121+47, 32'L	2'-0"	TP DUCTBANK	ELECTRONIC
14	CTL 122+47, 32'L	1'-5"	TP DUCTBANK	ELECTRONIC
15	CTL 123+47, 38'L	4'-3"	TP DUCTBANK	ELECTRONIC
16	CTL 124+47, 52'L	10"	TP DUCTBANK	ELECTRONIC
17	CTL 125+86, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
18	CTL 122+18, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
19	CTL 124+47, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
20	CTL 121+50, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
21	CTL 122+82, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
22	CTL 124+11, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC

FRANKLIN STREET

NOTES:

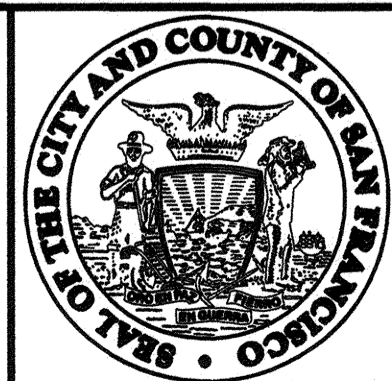
- 1. SEE UT-G1 FOR NOTES AND LEGEND.



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APPROVED	
DATE	MAY 13 2016



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY
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 for the DIRECTOR OF TRANSPORTATION

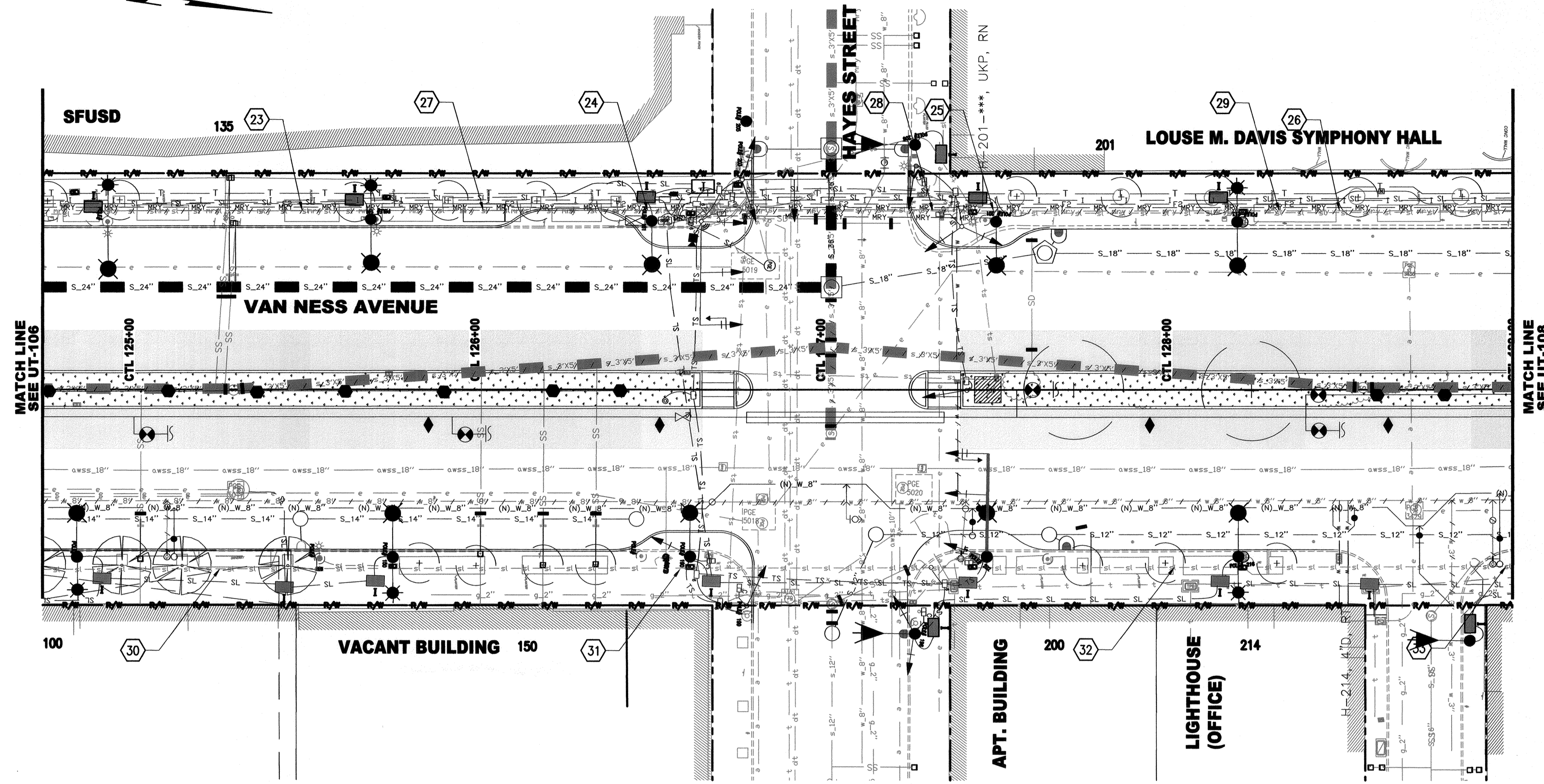
MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT
 UTILITY COMPOSITE
 CTL 120+75 TO 124+75
 PLAN

1289	REVISION
UT-106	0
UT-131	



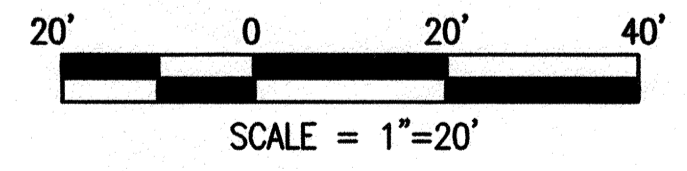
NOTES:

1. SEE UT-G1 FOR NOTES AND LEGEND.



POSITIVE LOCATION INFORMATION

NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
23	CTL 125+50, 52'L	1'-4"	TP DUCTBANK	ELECTRONIC
24	CTL 126+50, 52'L	1'-9"	TP DUCTBANK	ELECTRONIC
25	CTL 127+50, 52'L	1'-3"	TP DUCTBANK	ELECTRONIC
26	CTL 128+50, 52'L	1'-1"	TP DUCTBANK	ELECTRONIC
27	CTL 126+02, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
28	CTL 127+32, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
29	CTL 128+32, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
30	CTL 125+26, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
31	CTL 126+59, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
32	CTL 128+02, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
33	CTL 128+98, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC



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DESIGNED: *Prote Wilson*
 DRAWN: *Prote Wilson*
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 REVIEWED: _____
 RECOMMENDED: _____
 APPROVED: _____
 DATE: **MAY 13 2016**



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MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

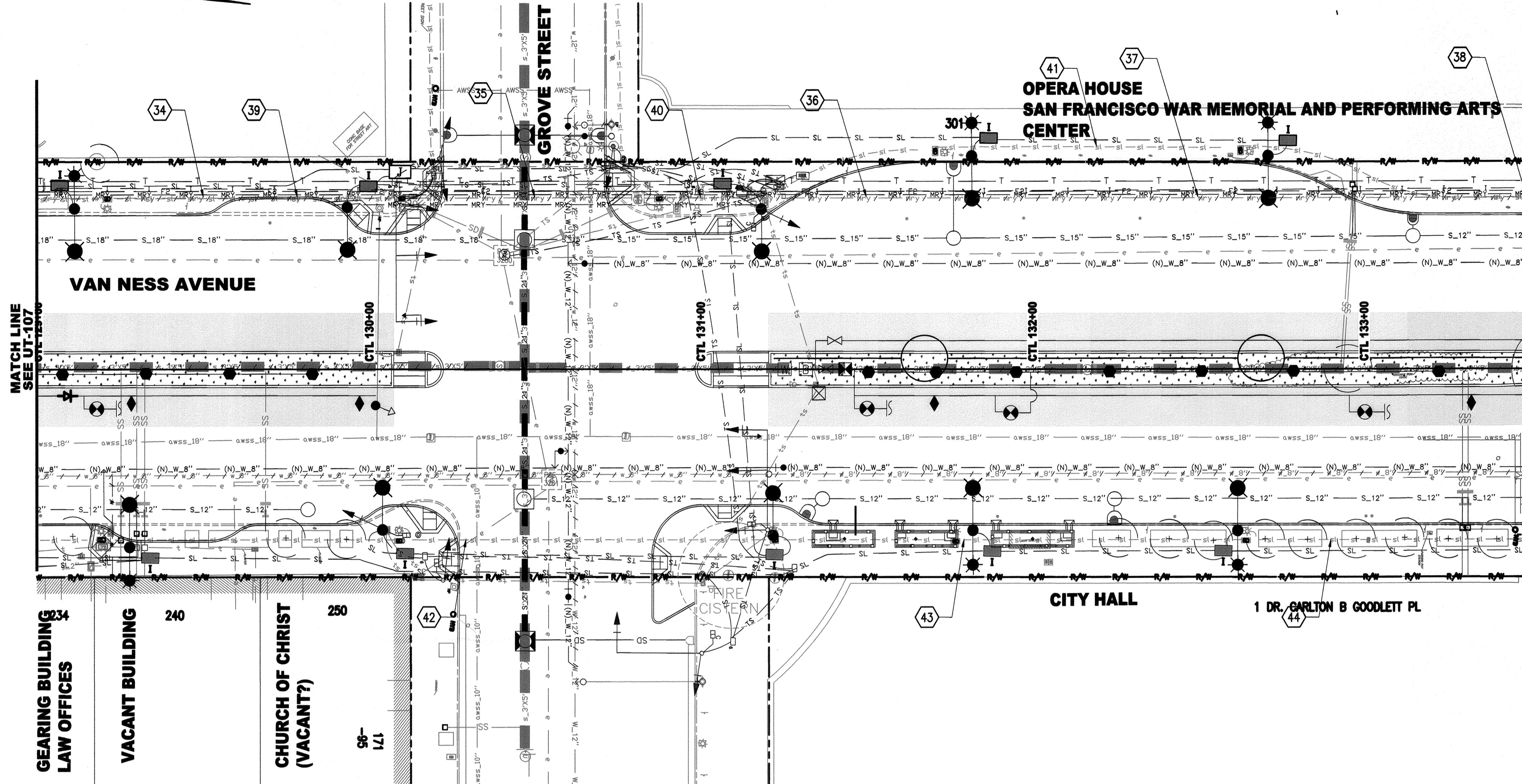
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UTILITY COMPOSITE
 CTL 124+75 TO 129+00
 PLAN

UT-107	REVISION
UT-131	0

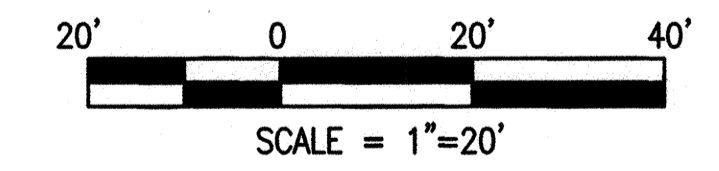
NOTES:

1. SEE UT-G1 FOR NOTES AND LEGEND.



POSITIVE LOCATION INFORMATION

NO. (1)	LOCATION	DEPTH BFG	FACILITY	METHOD
34	CTL 129+50, 52'L	1'-6"	TP DUCTBANK	ELECTRONIC
35	CTL 130+50, 52'L	3'-5"	TP DUCTBANK	ELECTRONIC
36	CTL 131+50, 52'L	1'-10"	TP DUCTBANK	ELECTRONIC
37	CTL 132+50, 52'L	1'-5"	TP DUCTBANK	ELECTRONIC
38	CTL 133+50, 52'L	2'-10"	TP DUCTBANK	ELECTRONIC
39	CTL 129+76, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
40	CTL 131+00, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
41	CTL 132+20, 67'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
42	CTL 130+29, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
43	CTL 131+79, 52'R	1'-8"	5KV STREETLIGHT	ELECTRONIC
44	CTL 132+90, 52'R	1'-8"	5KV STREETLIGHT	ELECTRONIC



I:\CP1840.1_Van Ness BRT V2_CERA\500_Design Components\501_Drawings\24_UTILITY\Sheet Files\CP18401UT108.dwg p.wilson Fri Nov 20 2015 - 11:35 am

NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED: *Proton Wilson*
 DRAWN: *Proton Wilson*
 CHECKED: _____
 REVIEWED: _____
 RECOMMENDED: _____
 APPROVED: _____
 DATE: **MAY 13 2016**



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

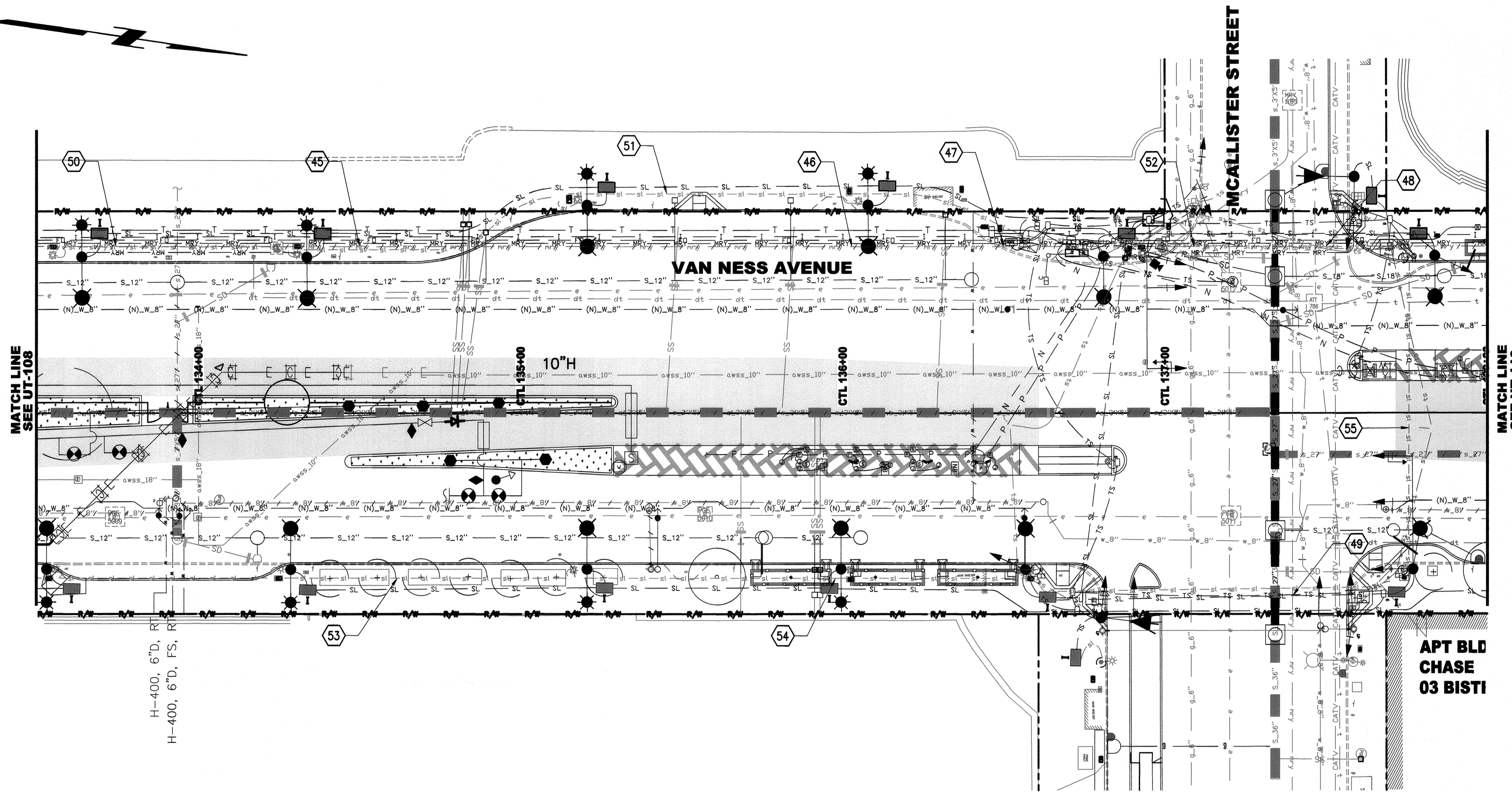
1289

UTILITY COMPOSITE
 CTL 129+00 TO 133+50
 PLAN

UT-108	REVISION
UT-131	0

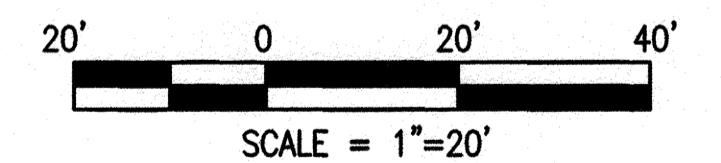
NOTES:

1. SEE UT-G1 FOR NOTES AND LEGEND.



POSITIVE LOCATION INFORMATION

NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
45	CTL 134+50, 52'L	2'-10"	TP DUCTBANK	ELECTRONIC
46	CTL 135+50, 52'L	2'-0"	TP DUCTBANK	ELECTRONIC
47	CTL 136+50, 52'L	2'-0"	TP DUCTBANK	ELECTRONIC
48	CTL 137+50, 52'L	3'-2"	TP DUCTBANK	ELECTRONIC
49	CTL 137+40, 57'R	3'-7"	TP DUCTBANK	ELECTRONIC
50	CTL 133+74, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
51	CTL 135+45, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
52	CTL 137+09, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
53	CTL 134+62, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
54	CTL 135+98, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
55	CTL 137+75, 5'R	3'-0"	5KV STREETLIGHT	ELECTRONIC



I:\CPT6401_Van_Ness_BRT_V2_CERA_S00_Design_Components\S01_Drawings\24_UTILITY_Sheet_Files\CPT6401UT109.dwg, pwlison Fri Nov 20, 2015 - 11:46 am

NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED: *Patricia...*
 DRAWN: *Patricia...*
 CHECKED: _____
 REVIEWED: _____
 RECOMMENDED: _____
 APPROVED: _____
 DATE: **MAY 13 2016**



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

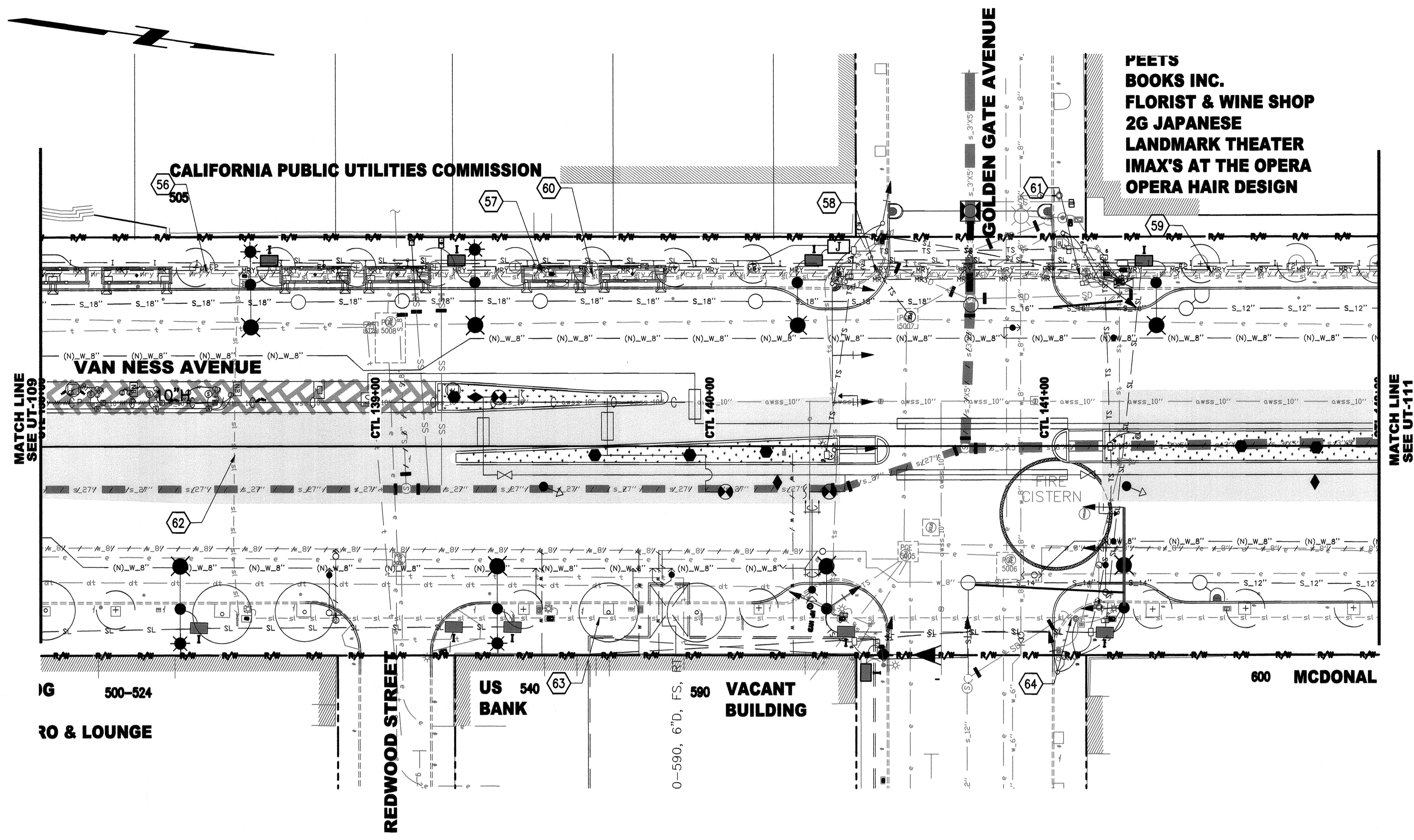
for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

1289

UTILITY COMPOSITE
 CTL 133+50 TO 138+00
 PLAN

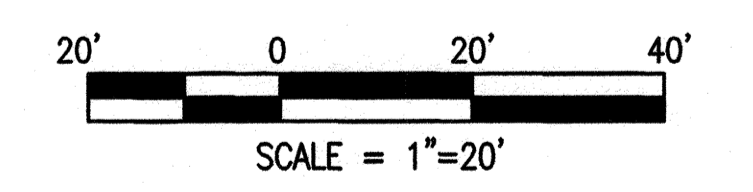
UT-109	REVISION
UT-131	0



NOTES:

- 1. SEE UT-G1 FOR NOTES AND LEGEND.

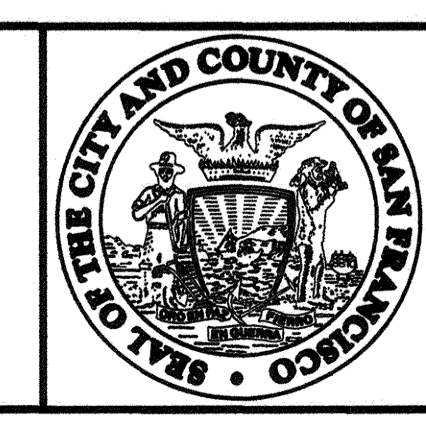
POSITIVE LOCATION INFORMATION				
NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
56	CTL 138+50, 52'L	2'-0"	TP DUCTBANK	ELECTRONIC
57	CTL 139+50, 52'L	3'-2"	TP DUCTBANK	ELECTRONIC
58	CTL 140+50, 52'L	4'-7"	TP DUCTBANK	ELECTRONIC
59	CTL 141+50, 52'L	2'-0"	TP DUCTBANK	ELECTRONIC
60	CTL 141+50, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
61	CTL 139+65, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
62	CTL 138+58, 3'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
63	CTL 139+67, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
64	CTL 141+08, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC



I:\CPT16401_Van Ness BRT V2_CER\500_Design_Components\501_Drawings\24_UTILITY_Sheet_Files\CPT16401UT110.dwg p.wilson Fri Nov 20 2015 11:52 am

NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED: *[Signature]*
 DRAWN: *[Signature]*
 CHECKED: _____
 REVIEWED: _____
 RECOMMENDED: _____
 APPROVED: _____
 DATE: **MAY 13 2016**



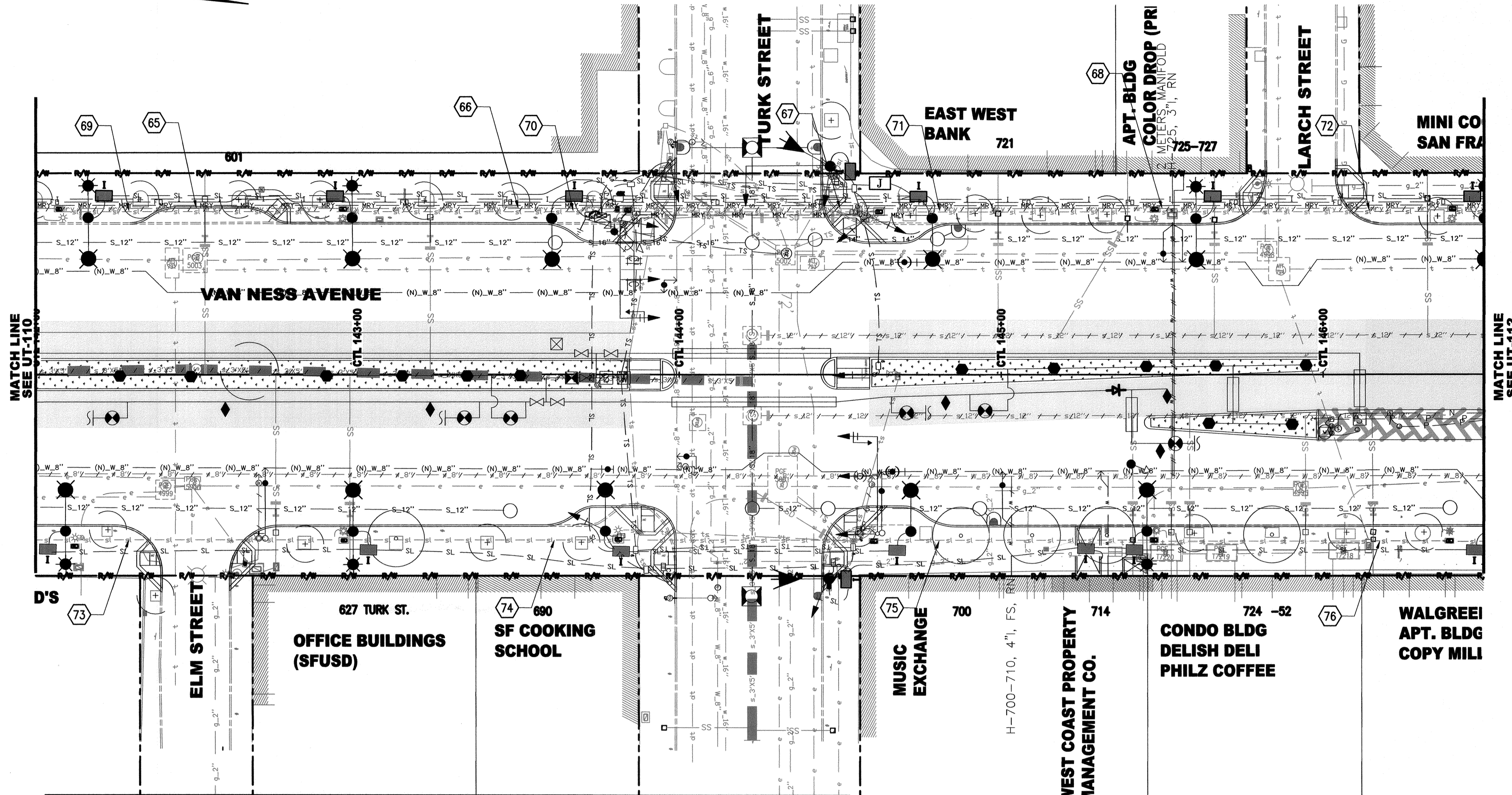
CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY
 APPROVED
 for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT
 UTILITY COMPOSITE
 CTL 138+00 TO 142+00
 PLAN

1289	REVISION
UT-110	0
UT-131	

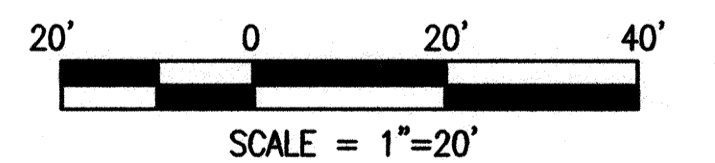
NOTES:

1. SEE UT-G1 FOR NOTES AND LEGEND.



POSITIVE LOCATION INFORMATION

NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
65	CTL 142+50, 52'L	2'-10"	TP DUCTBANK	ELECTRONIC
66	CTL 143+50, 52'L	2'-10"	TP DUCTBANK	ELECTRONIC
67	CTL 144+50, 52'L	2'-10"	TP DUCTBANK	ELECTRONIC
68	CTL 145+50, 52'L	3'-5"	TP DUCTBANK	ELECTRONIC
69	CTL 142+29, 52'L	3'-3"	TP DUCTBANK	ELECTRONIC
70	CTL 143+67, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
71	CTL 144+81, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
72	CTL 146+14, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
73	CTL 142+29, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
74	CTL 143+61, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
75	CTL 144+81, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
76	CTL 146+18, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC



I:\CPT6401_Van_Ness_BRT_V2_CER_V00_Design_Components\301_Drawings\24_Utility_Sheet_Files\CPT6401UT111.dwg_pwlison Fri Dec 04 2015 - 4:15 pm

NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED: *[Signature]*
 DRAWN: *[Signature]*
 CHECKED: _____
 REVIEWED: _____
 RECOMMENDED: _____
 APPROVED: _____
 DATE: **MAY 13 2016**



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

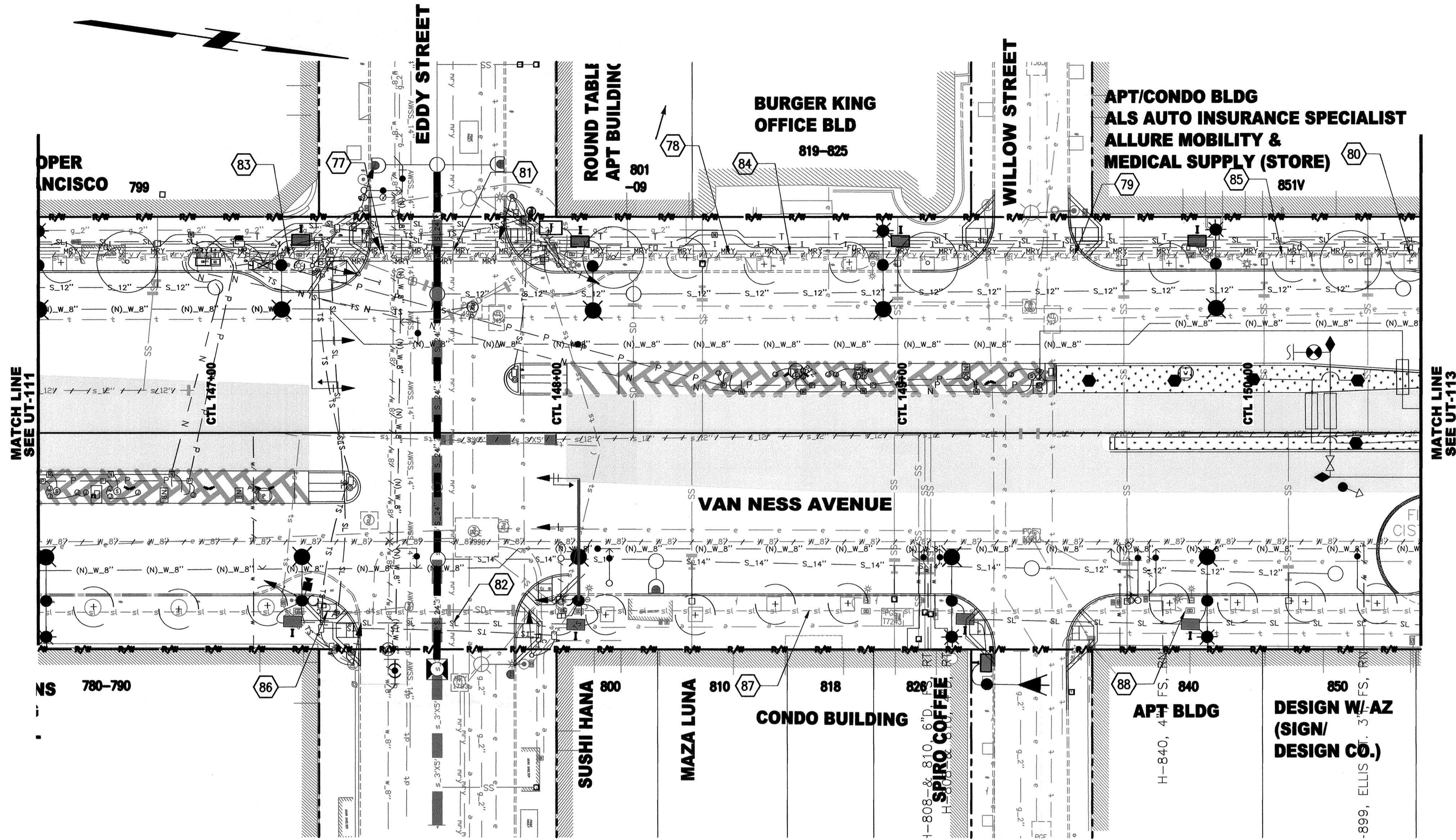
for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

1289

UTILITY COMPOSITE
 CTL 142+00 TO 146+50
 PLAN

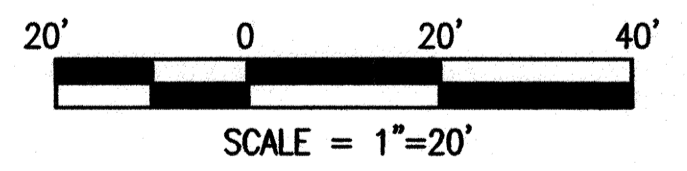
UT-111	REVISION
UT-131	0



NOTES:
 1. SEE UT-G1 FOR NOTES AND LEGEND.

POSITIVE LOCATION INFORMATION

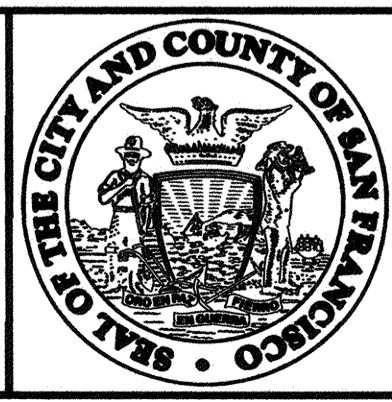
NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
77	CTL 147+50, 52'L	5'-3"	TP DUCTBANK	ELECTRONIC
78	CTL 148+50, 52'L	2'-4"	TP DUCTBANK	ELECTRONIC
79	CTL 149+50, 52'L	2'-8"	TP DUCTBANK	ELECTRONIC
80	CTL 150+50, 52'L	2'-0"	TP DUCTBANK	ELECTRONIC
81	CTL 147+70, 54'L	5'-2"	TP DUCTBANK	ELECTRONIC
82	CTL 147+70, 54'R	4'-0"	TP DUCTBANK	ELECTRONIC
83	CTL 147+23, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
84	CTL 148+68, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
85	CTL 150+10, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
86	CTL 147+34, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
87	CTL 148+73, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
88	CTL 149+82, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC



I:\CP16401_Van Ness_BRT_V2_CER_500_Design_Components\501_Drawings\24_UTILITY_Sheet_Files\CP16401UT112.dwg_pjwilson Fri Dec 04 2015 - 4:20 pm

NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED: *[Signature]*
 DRAWN: *[Signature]*
 CHECKED: _____
 REVIEWED: _____
 RECOMMENDED: _____
 APPROVED: _____
 DATE: **MAY 13 2016**



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

1289

UTILITY COMPOSITE
 CTL 146+50 TO 150+50
 PLAN

UT-112

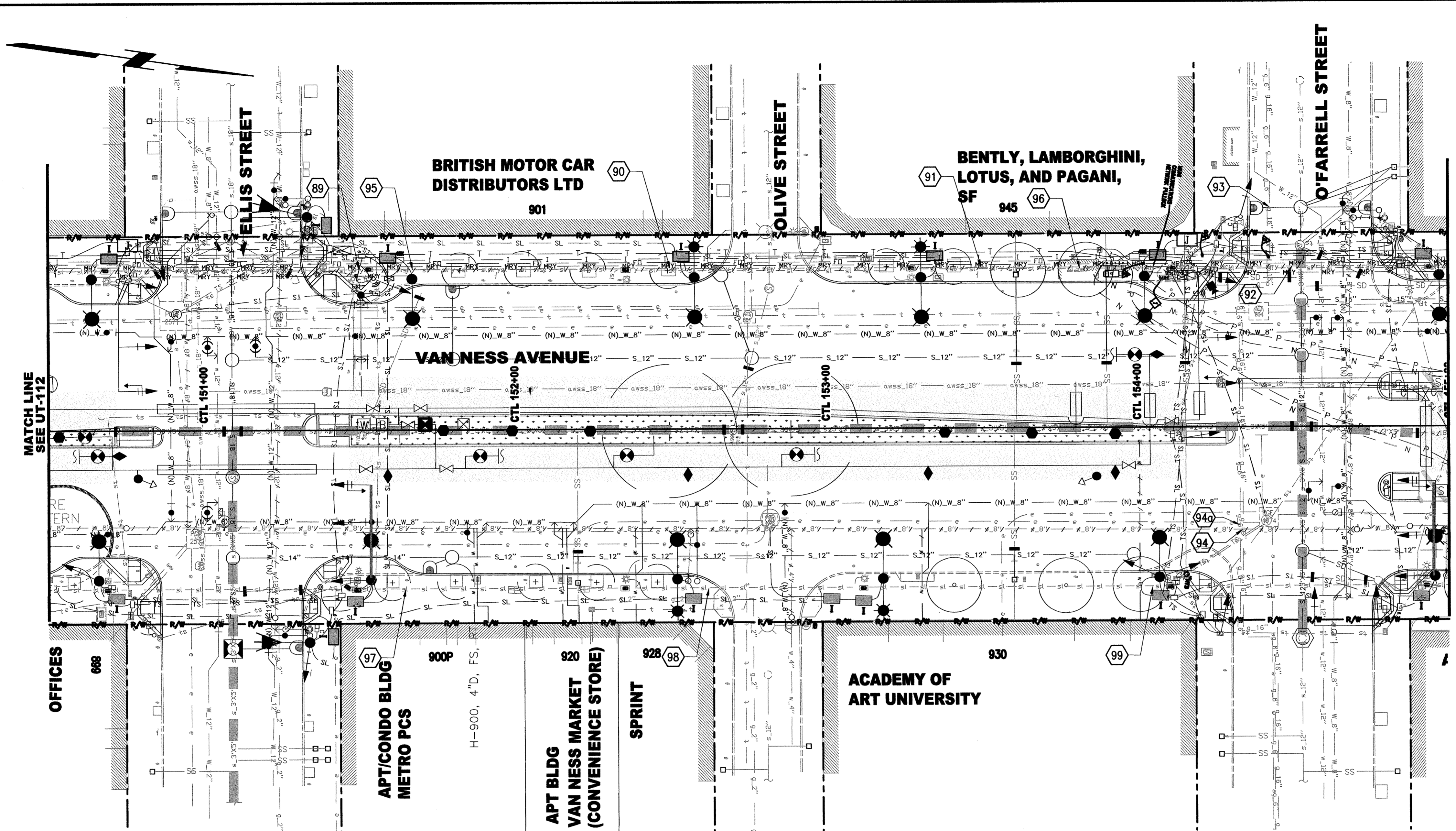
UT-131

REVISION

0

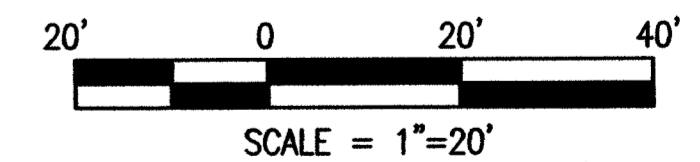
NOTES:

1. SEE UT-G1 FOR NOTES AND LEGEND.



POSITIVE LOCATION INFORMATION

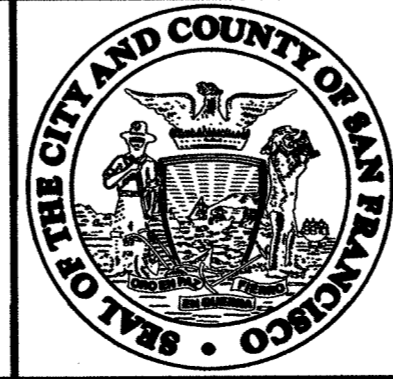
NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
89	CTL 151+50, 52'L	3'-9"	TP DUCTBANK	ELECTRONIC
90	CTL 152+50, 52'L	1'-7"	TP DUCTBANK	ELECTRONIC
91	CTL 153+50, 52'L	2'-11"	TP DUCTBANK	ELECTRONIC
92	CTL 154+50, 52'L	7'-1"	TP DUCTBANK	ELECTRONIC
93	CTL 154+43, 71'L	5'-1"	PGE 16" GAS	POTHOLE
94	CTL 154+34, 33'R	5'-0"	PGE 16" GAS	POTHOLE
94a	CTL 154+33, 32'R	2'-6"	PGE 6" GAS	POTHOLE
95	CTL 151+68, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
96	CTL 153+82, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
97	CTL 151+65, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
98	CTL 152+62, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
99	CTL 154+05, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC



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NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED	_____
DRAWN	_____
CHECKED	_____
REVIEWED	_____
RECOMMENDED	_____
APPROVED	_____
DATE	6/6/16



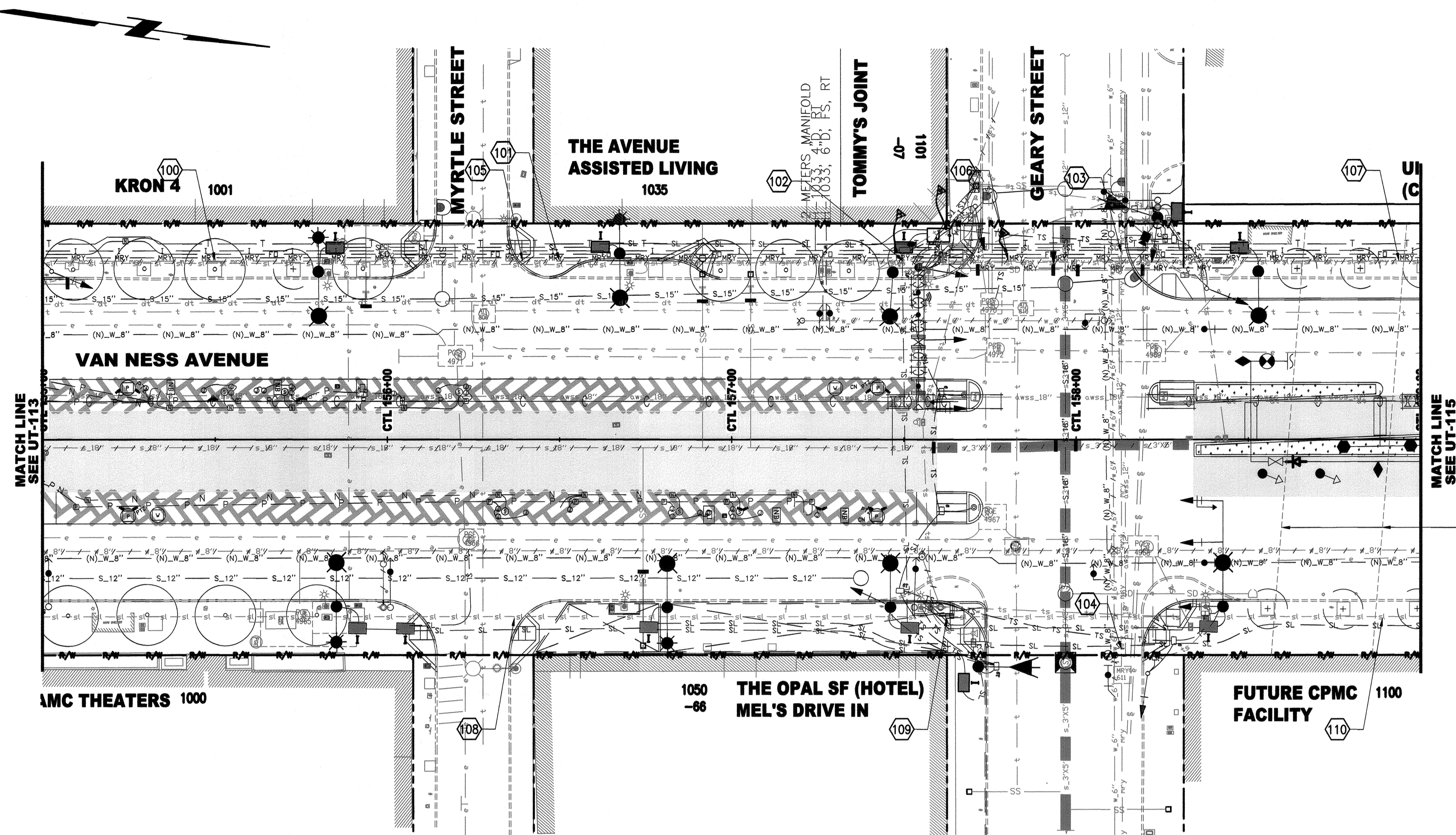
CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY
 APPROVED
 for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT
 UTILITY COMPOSITE
 CTL 150+50 TO 155+00
 PLAN

1289	
UT-113	REVISION
UT-131	0

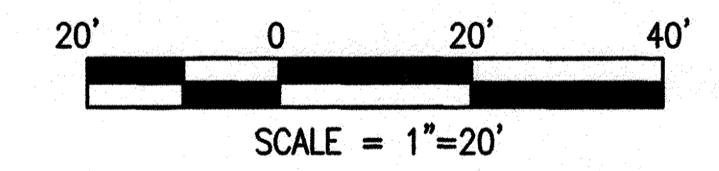
NOTES:

1. SEE UT-G1 FOR NOTES AND LEGEND.



POSITIVE LOCATION INFORMATION

NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
100	CTL 155+50, 52'L	7'-7"	TP DUCTBANK	ELECTRONIC
101	CTL 156+50, 52'L	7'-9"	TP DUCTBANK	ELECTRONIC
102	CTL 157+50, 52'L	3'-0"	TP DUCTBANK	ELECTRONIC
103	CTL 158+13, 54'L	6'-5"	TP DUCTBANK	ELECTRONIC
104	CTL 158+13, 61'R	2'-10"	TP DUCTBANK	ELECTRONIC
105	CTL 156+40, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
106	CTL 157+80, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
107	CTL 158+94, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
108	CTL 156+36, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
109	CTL 157+63, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
110	CTL 158+89, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC



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NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED: *Frederic Wilson*
 DRAWN: *Frederic Wilson*
 CHECKED: _____
 REVIEWED: _____
 RECOMMENDED: _____
 APPROVED: _____
 DATE: **MAY 13 2016**



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

for the DIRECTOR OF TRANSPORTATION

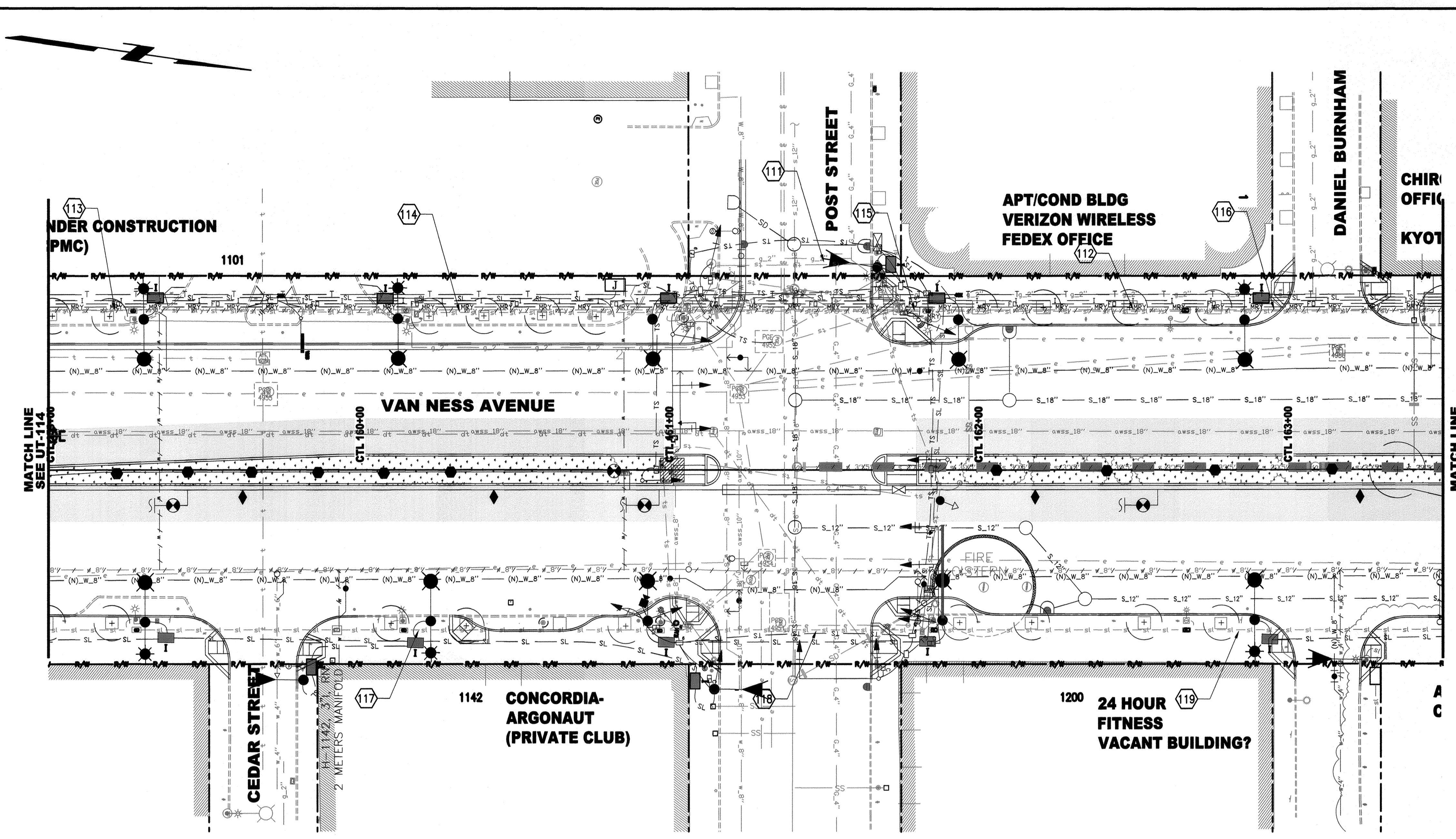
MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

1289

UTILITY COMPOSITE
 CTL 155+00 TO 159+00
 PLAN

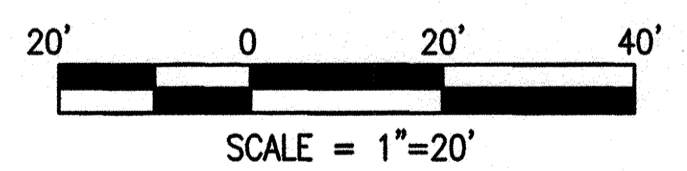
UT-114	REVISION
UT-131	0

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NOTES:
1. SEE UT-G1 FOR NOTES AND LEGEND.

POSITIVE LOCATION INFORMATION				
NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
111	CTL 161+50, 52'L	5'-8"	TP DUCTBANK	ELECTRONIC
112	CTL 162+50, 52'L	2'-5"	TP DUCTBANK	ELECTRONIC
113	CTL 159+21, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
114	CTL 160+32, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
115	CTL 161+79, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
116	CTL 162+96, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
117	CTL 160+19, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
118	CTL 161+48, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
119	CTL 162+84, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC



NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED: *[Signature]*
 DRAWN: *[Signature]*
 CHECKED: _____
 REVIEWED: _____
 RECOMMENDED: _____
 APPROVED: _____
 DATE: **MAY 13 2016**

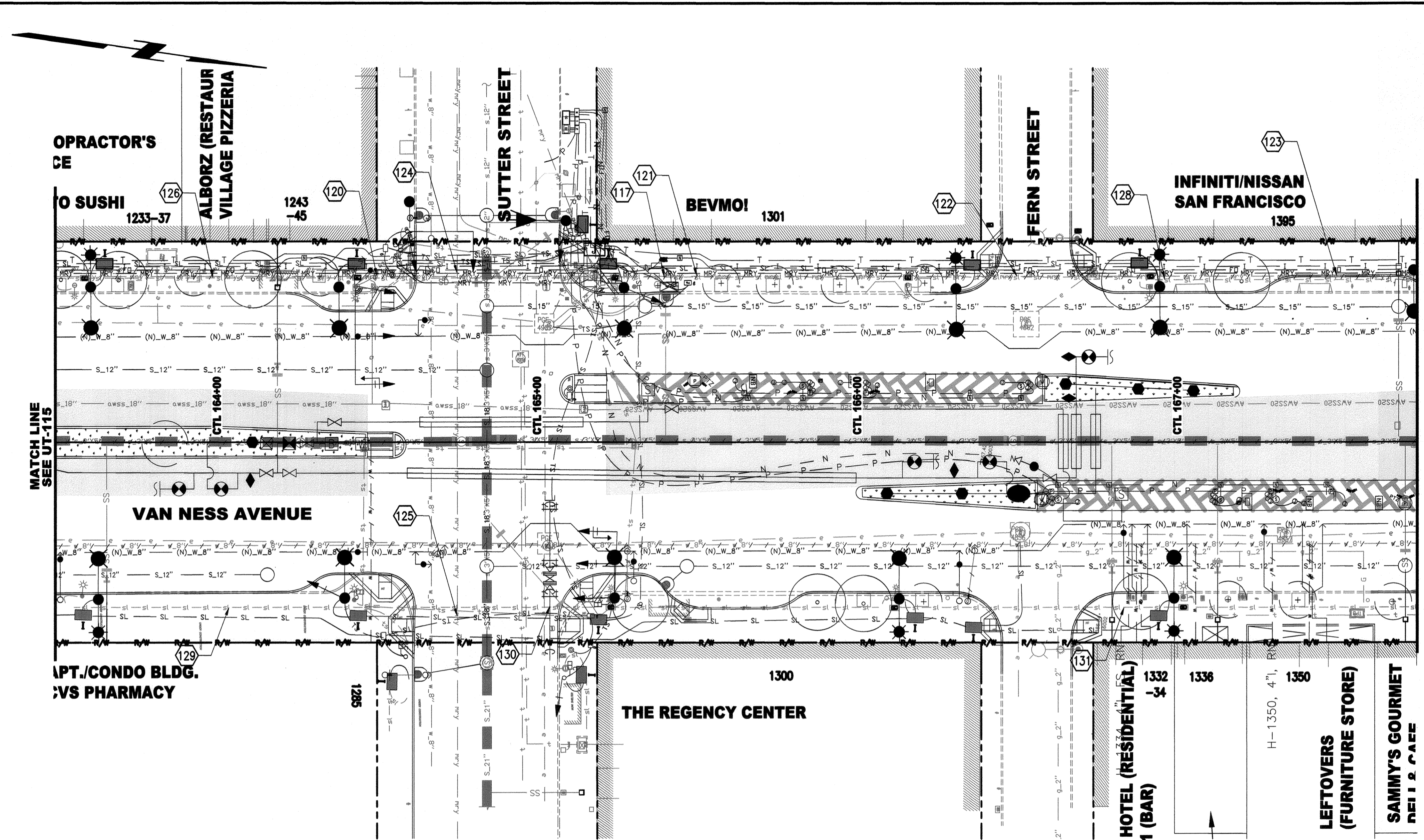
CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM		1289
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT		
UTILITY COMPOSITE CTL 159+00 TO 163+50 PLAN	UT-115	REVISION
	UT-131	0

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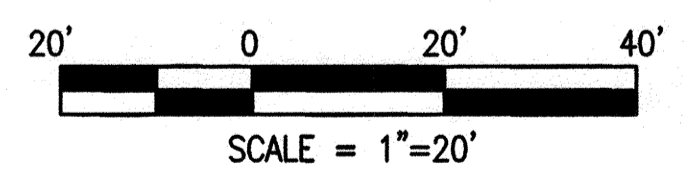


NOTES:

- SEE UT-G1 FOR NOTES AND LEGEND.

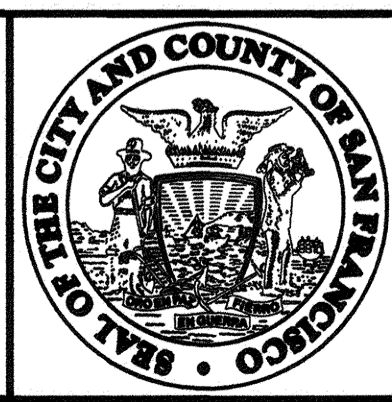
POSITIVE LOCATION INFORMATION

NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
120	CTL 164+50, 52'L	2'-11"	TP DUCTBANK	ELECTRONIC
121	CTL 165+50, 54'L	2'-7"	TP DUCTBANK	ELECTRONIC
122	CTL 166+50, 52'L	1'-10"	TP DUCTBANK	ELECTRONIC
123	CTL 167+50, 52'L	2'-1"	TP DUCTBANK	ELECTRONIC
124	CTL 164+75, 54'L	5'-8"	TP DUCTBANK	ELECTRONIC
125	CTL 164+75, 54'R	4'-0"	TP DUCTBANK	ELECTRONIC
126	CTL 163+99, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
127	CTL 165+40, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
128	CTL 166+96, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
129	CTL 164+03, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
130	CTL 165+04, 56'R	1'-6"	5KV STREETLIGHT	ELECTRONIC
131	CTL 166+83, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC



NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED: *[Signature]*
 DRAWN: *[Signature]*
 CHECKED: _____
 REVIEWED: _____
 RECOMMENDED: _____
 APPROVED: _____
 DATE: **MAY 18 2016**



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

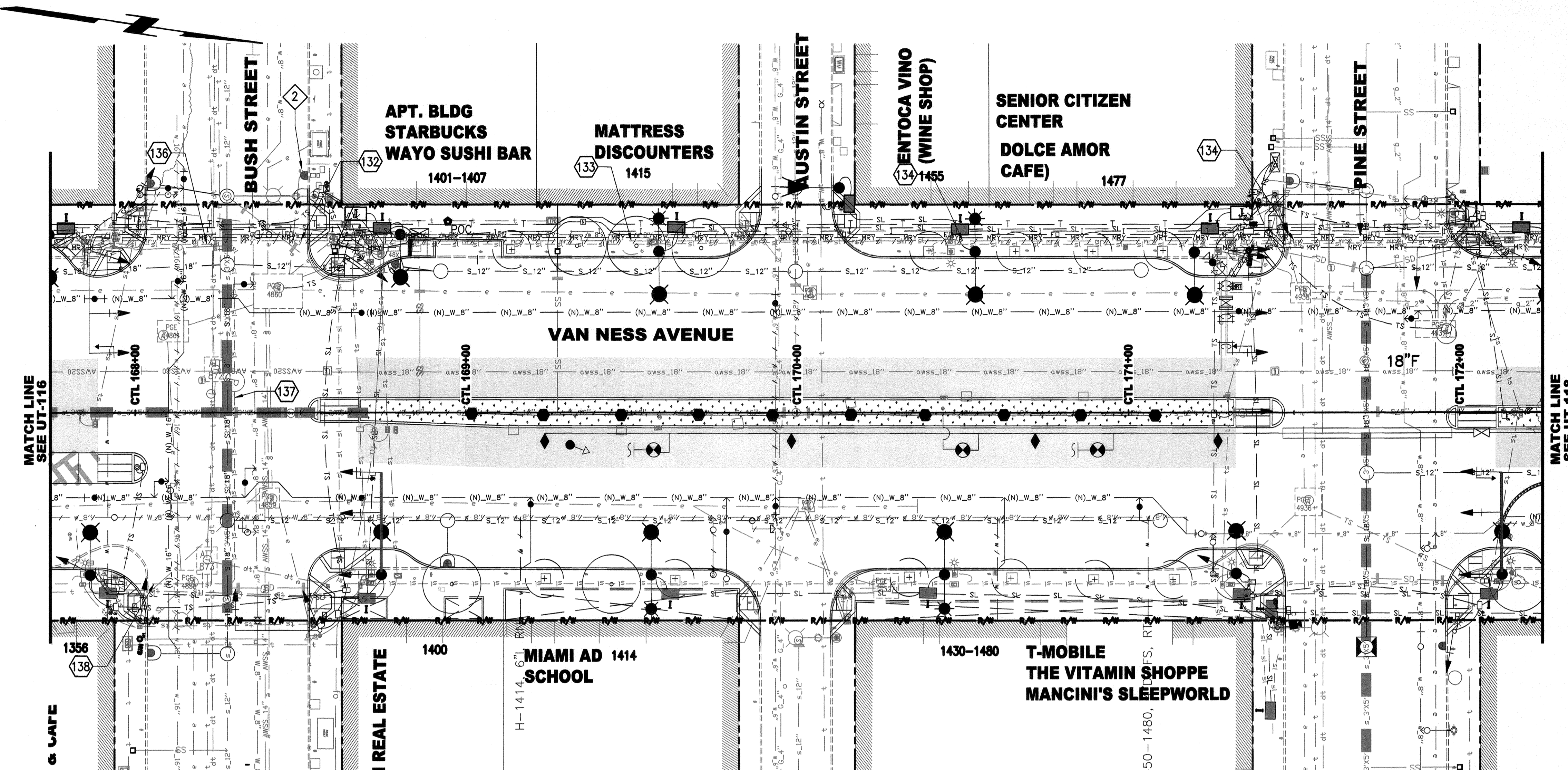
1289

UTILITY COMPOSITE
 CTL 163+50 TO 167+75
 PLAN

UT-116

UT-131

REVISION
 0

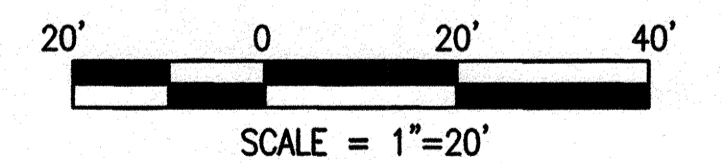


NOTES:

- SEE UT-G1 FOR NOTES AND LEGEND.
- PG&E ELECTRIC CONDUIT IN CONFLICT WITH (N) CATCHBASIN TO BE RELOCATED BY OTHERS.

POSITIVE LOCATION INFORMATION

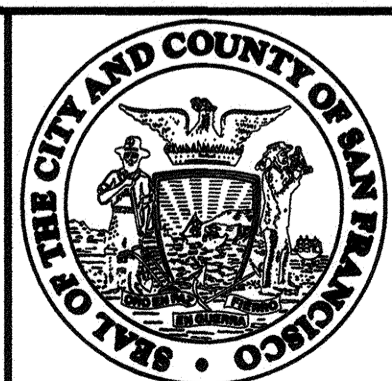
NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
132	CTL 168+50, 52'L	5'-2"	TP DUCTBANK	ELECTRONIC
133	CTL 169+50, 52'L	2'-11"	TP DUCTBANK	ELECTRONIC
134	CTL 170+50, 52'L	2'-5"	TP DUCTBANK	ELECTRONIC
135	CTL 171+50, 52'L	4'-4"	TP DUCTBANK	ELECTRONIC
136	CTL 168+22, 52'L	1'-6"	5KV STREETLIGHT	ELECTRONIC
137	CTL 168+30, 5'L	2'-0"	5KV STREETLIGHT	ELECTRONIC
138	CTL 168+06, 52'R	1'-6"	5KV STREETLIGHT	ELECTRONIC



I:\CPT6401_Van Ness BR\2_CER_500_Design Components\501_Drawings\24_Utilities\Sheet Files\CPT6401UT117.dwg p.wilson Tue Dec 01 2015 - 2:04 pm
 BORDER REVISED 11/17/05

NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED: *Proton*
 DRAWN: *Proton*
 CHECKED: _____
 REVIEWED: _____
 RECOMMENDED: _____
 APPROVED: _____
 DATE: **MAY 19 2016**



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

1289

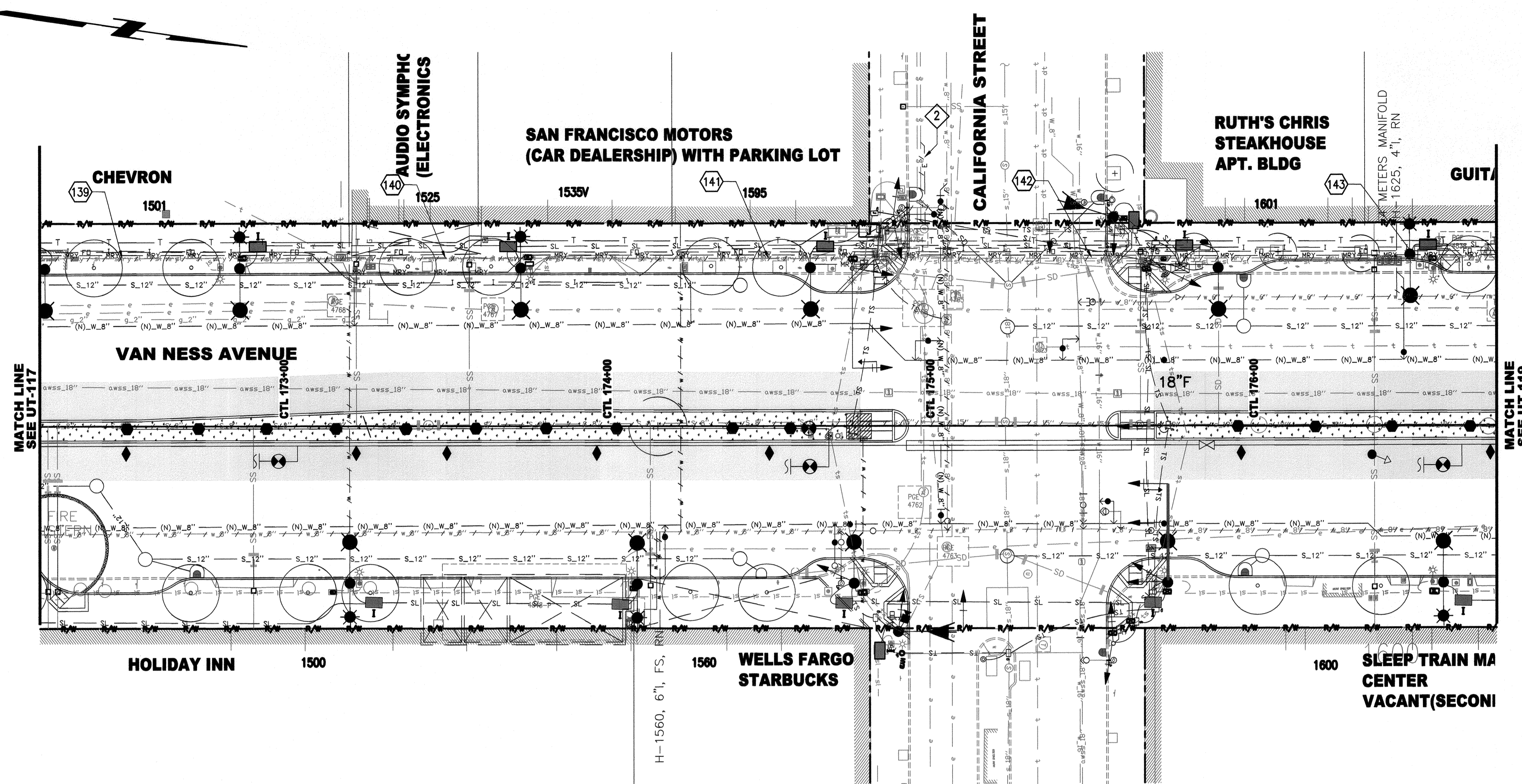
UTILITY COMPOSITE
 CTL 167+75 TO 172+25
 PLAN

UT-117
 UT-131

REVISION
 0

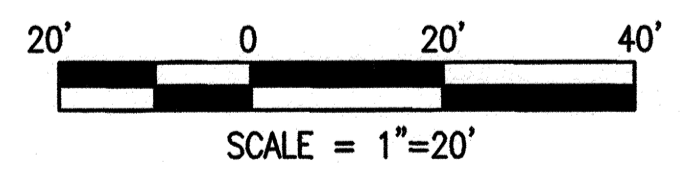
NOTES:

1. SEE UT-G1 FOR NOTES AND LEGEND.
2. PG&E ELECTRIC CONDUIT IN CONFLICT WITH (N) CATCHBASIN TO BE RELOCATED BY OTHERS.



POSITIVE LOCATION INFORMATION

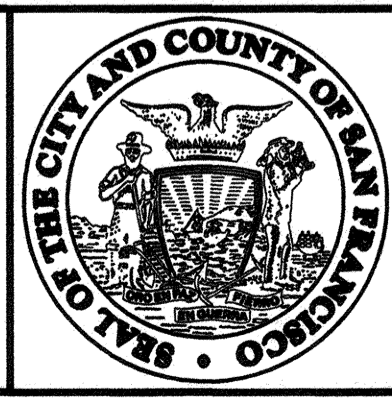
NO. ◊	LOCATION	DEPTH BFG	FACILITY	METHOD
139	CTL 172+50, 52'L	3'-3"	TP DUCTBANK	ELECTRONIC
140	CTL 173+50, 52'L	3'-0"	TP DUCTBANK	ELECTRONIC
141	CTL 174+50, 52'L	2'-10"	TP DUCTBANK	ELECTRONIC
142	CTL 175+50, 52'L	5'-8"	TP DUCTBANK	ELECTRONIC
143	CTL 176+50, 52'L	1'-10"	TP DUCTBANK	ELECTRONIC



I:\CPT6401_Van Ness BRV2_CER_500_Design Components\501_Drawings\4_Drawings\44_Utility\Sheet Files\CPT6401UT118.dwg pwilson Tue Dec 01 2015 - 2:19 pm

NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED <i>Prothman</i>
DRAWN <i>Prothman</i>
CHECKED
REVIEWED
RECOMMENDED
APPROVED
DATE MAY 13 2016



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

for the DIRECTOR OF TRANSPORTATION

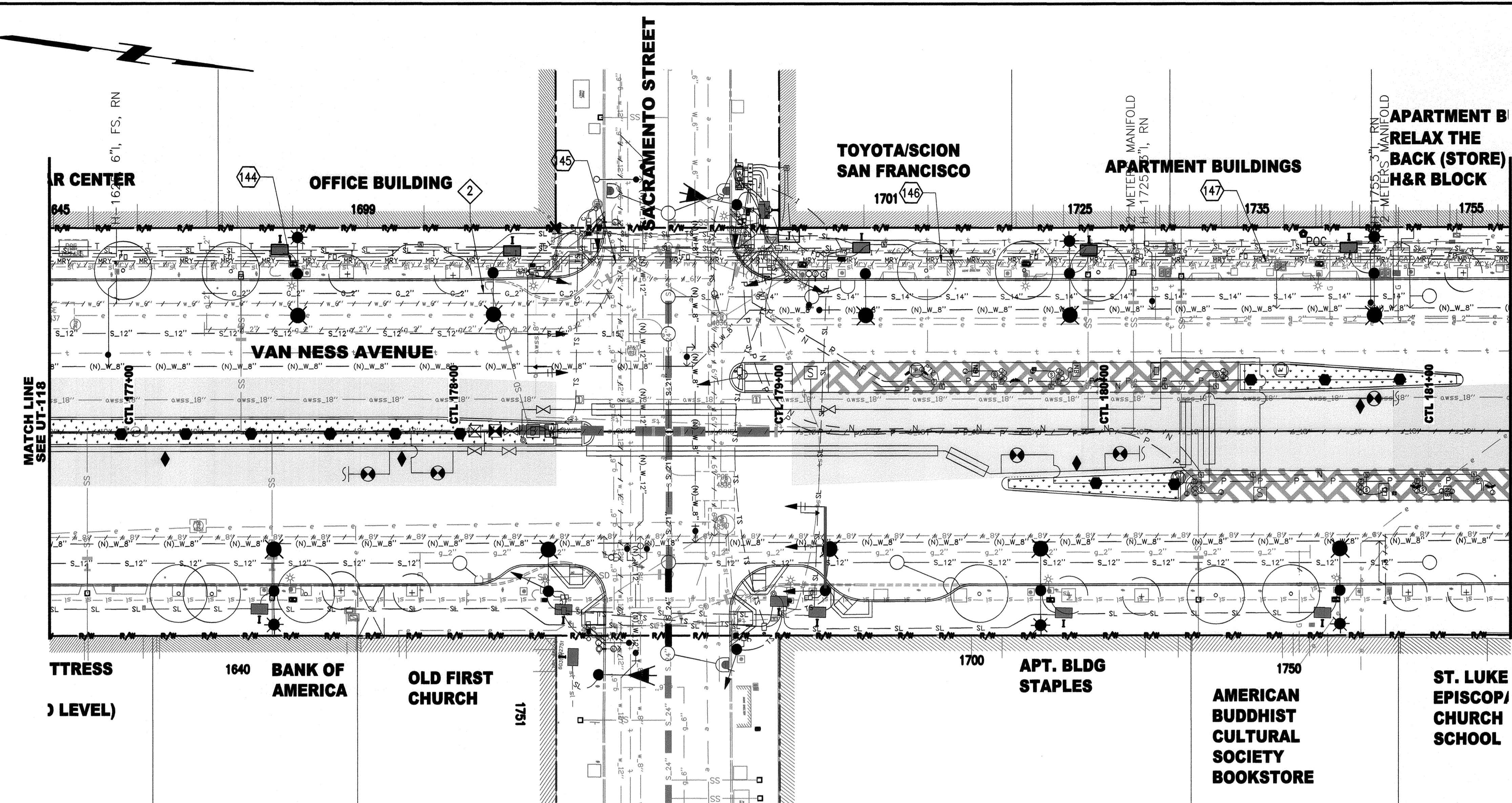
MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

1289

UTILITY COMPOSITE
CTL 172+25 TO 176+75
PLAN

UT-118
UT-131

REVISION
0

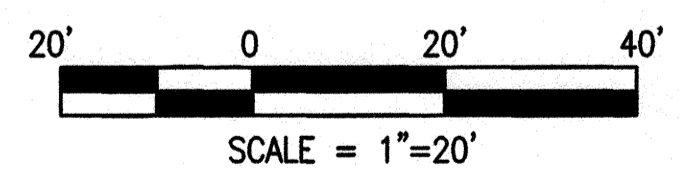


- NOTES:**
- SEE UT-G1 FOR NOTES AND LEGEND.
 - (E) PG&E GAS LINE IN CONFLICT WITH (N) SEWER MANHOLE TO BE RELOCATED BY OTHERS.

MATCH LINE
SEE UT-118

MATCH LINE
SEE UT-120

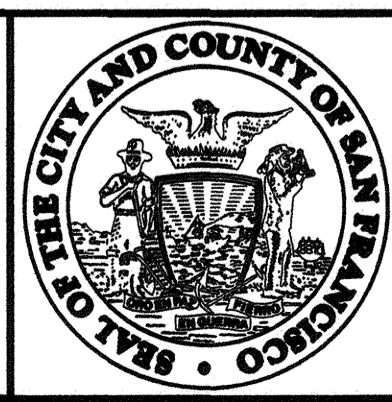
POSITIVE LOCATION INFORMATION				
NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
144	CTL 177+50, 52'L	2'-5"	TP DUCTBANK	ELECTRONIC
145	CTL 178+50, 52'L	3'-11"	TP DUCTBANK	ELECTRONIC
146	CTL 179+50, 52'L	2'-1"	TP DUCTBANK	ELECTRONIC
147	CTL 180+50, 52'L	2'-1"	TP DUCTBANK	ELECTRONIC



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NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED: *Prothman*
 DRAWN: *Prothman*
 CHECKED: _____
 REVIEWED: _____
 RECOMMENDED: _____
 APPROVED: _____
 DATE: **MAY 13 2016**



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED
 for the DIRECTOR OF TRANSPORTATION

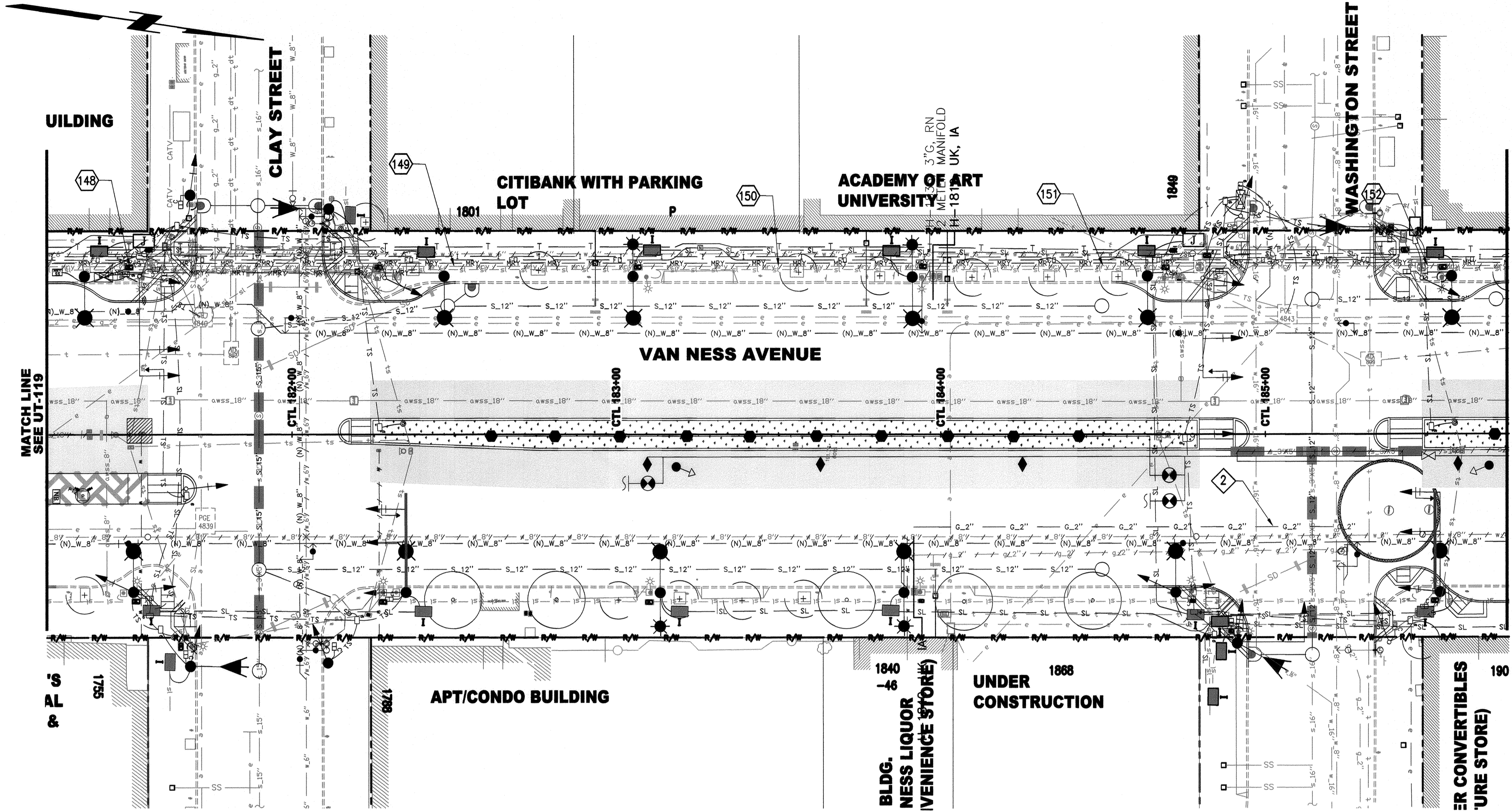
MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

1289

UTILITY COMPOSITE
 CTL 176+75 TO 181+25
 PLAN

UT-119
 UT-131

REVISION
 0

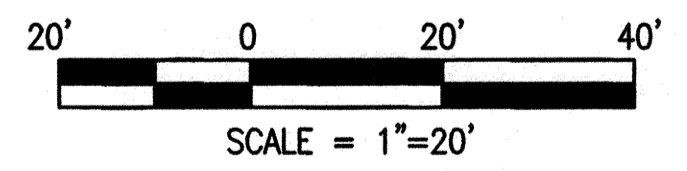


NOTES:

1. SEE UT-G1 FOR NOTES AND LEGEND.
2. EXISTING PG&E GAS IN CONFLICT WITH PROPOSED WATER LINE TO BE RELOCATED BY OTHERS.

POSITIVE LOCATION INFORMATION

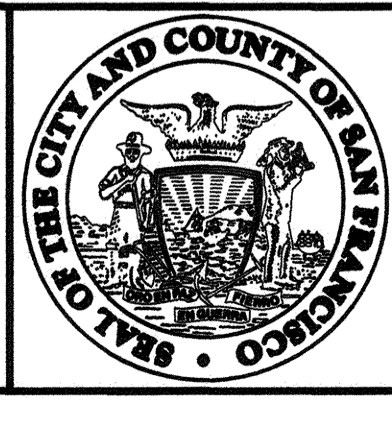
NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
148	CTL 181+50, 52'L	1'-6"	TP DUCTBANK	ELECTRONIC
149	CTL 182+50, 52'L	4'-4"	TP DUCTBANK	ELECTRONIC
150	CTL 183+50, 52'L	2'-4"	TP DUCTBANK	ELECTRONIC
151	CTL 184+50, 52'L	2'-3"	TP DUCTBANK	ELECTRONIC
152	CTL 185+50, 52'L	2'-3"	TP DUCTBANK	ELECTRONIC



I:\CP1640_1_Van_Ness_BRT_V2_CER_V300_Design_Components\501_Drawings\24_UTILITY\Sheet_Files\CP1640\UT120.dwg pmlison Tue Dec 01 2015 - 2:40 pm

NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED: *[Signature]*
 DRAWN: *[Signature]*
 CHECKED: _____
 REVIEWED: _____
 RECOMMENDED: _____
 APPROVED: _____
 DATE: **MAY 13 2016**



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

1289

UTILITY COMPOSITE
 CTL 181+25 TO 185+75
 PLAN

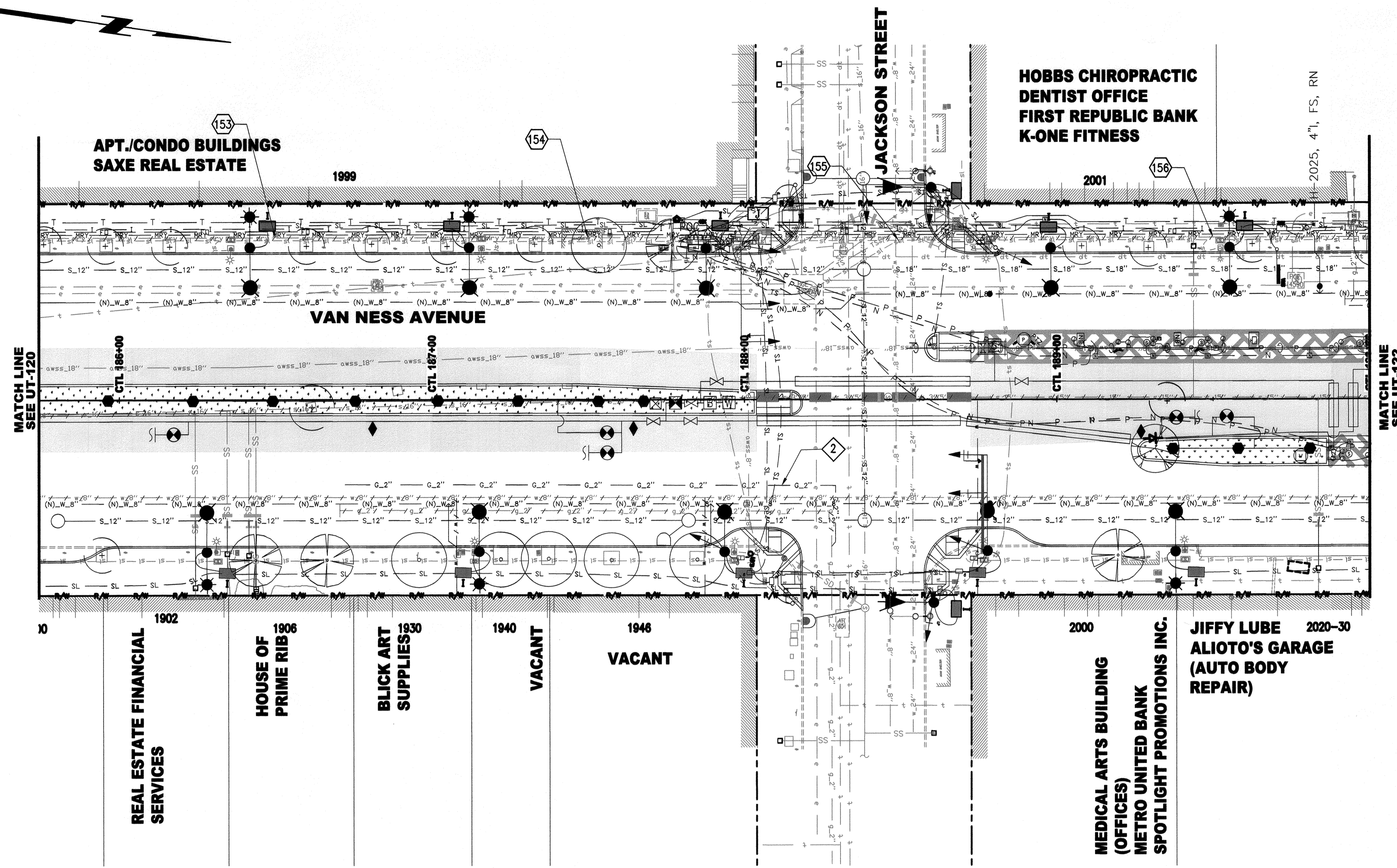
UT-120

UT-131

REVISION

0

I:\CPT6401_Van Ness_BRT_V_CER\500_Design_Components\501_Drawings\24_Utilities\Sheet_Files\CPT6401UT121.dwg pwillson Tue Dec 01 2015 - 2:51 pm

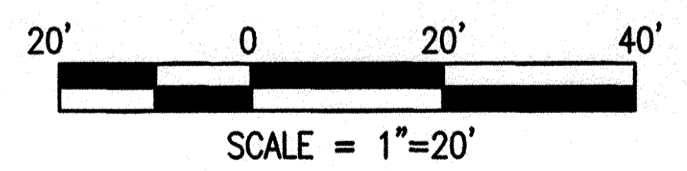


NOTES:

1. SEE UT-G1 FOR NOTES AND LEGEND.
2. (E) PG&E GAS LINE IN CONFLICT WITH (N) WATER LINE TO BE RELOCATED BY OTHERS.

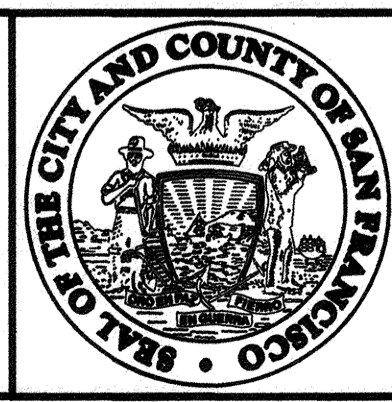
POSITIVE LOCATION INFORMATION

NO.	LOCATION	DEPTH BFG	FACILITY	METHOD
153	CTL 186+50, 52'L	3'-1"	TP DUCTBANK	ELECTRONIC
154	CTL 187+50, 52'L	3'-0"	TP DUCTBANK	ELECTRONIC
155	CTL 188+50, 52'L	4'-2"	TP DUCTBANK	ELECTRONIC
156	CTL 189+50, 52'L	2'-2"	TP DUCTBANK	ELECTRONIC



NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED: *Paterson*
 DRAWN: *Paterson*
 CHECKED: _____
 REVIEWED: _____
 RECOMMENDED: _____
 APPROVED: _____
 DATE: **MAY 13 2016**



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

1289

UTILITY COMPOSITE
 CTL 185+75 TO 190+00
 PLAN

UT-121	REVISION
UT-131	0