

MIAMI BEACH

PUBLIC WORKS DEPARTMENT

TOPOGRAPHIC SURVEY

WEST AVENUE

MAY 10, 2017 SM-2017A

100% SUBMITTAL

CITY OF MIAMI BEACH

MAYOR: PHILIP LEVINE

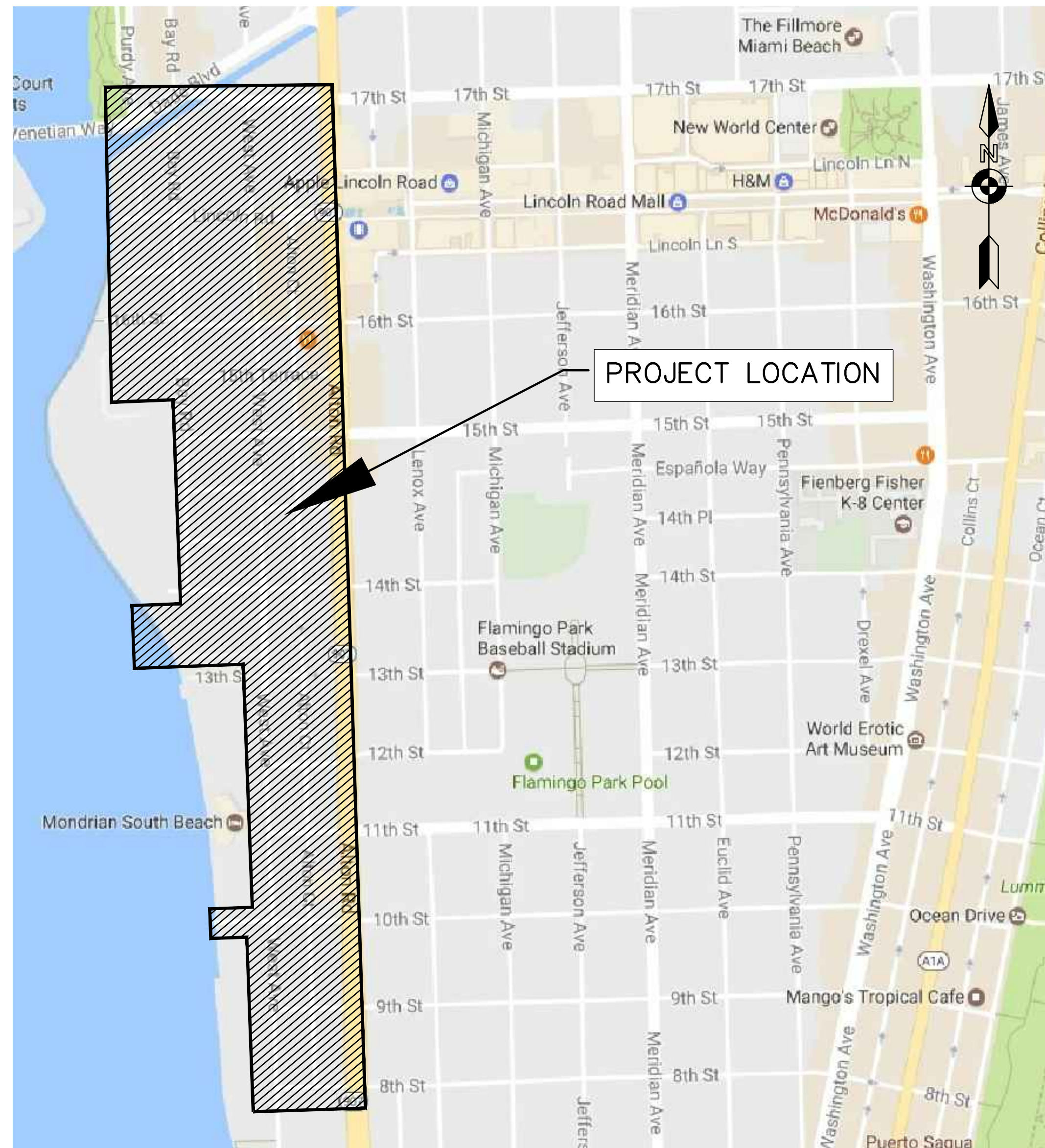
COMMISSIONERS: MICKY STEINBERG
MICHAEL GRIECO
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JOHN ELIZABETH ALEMAN

CITY MANAGER: JIMMY L. MORALES

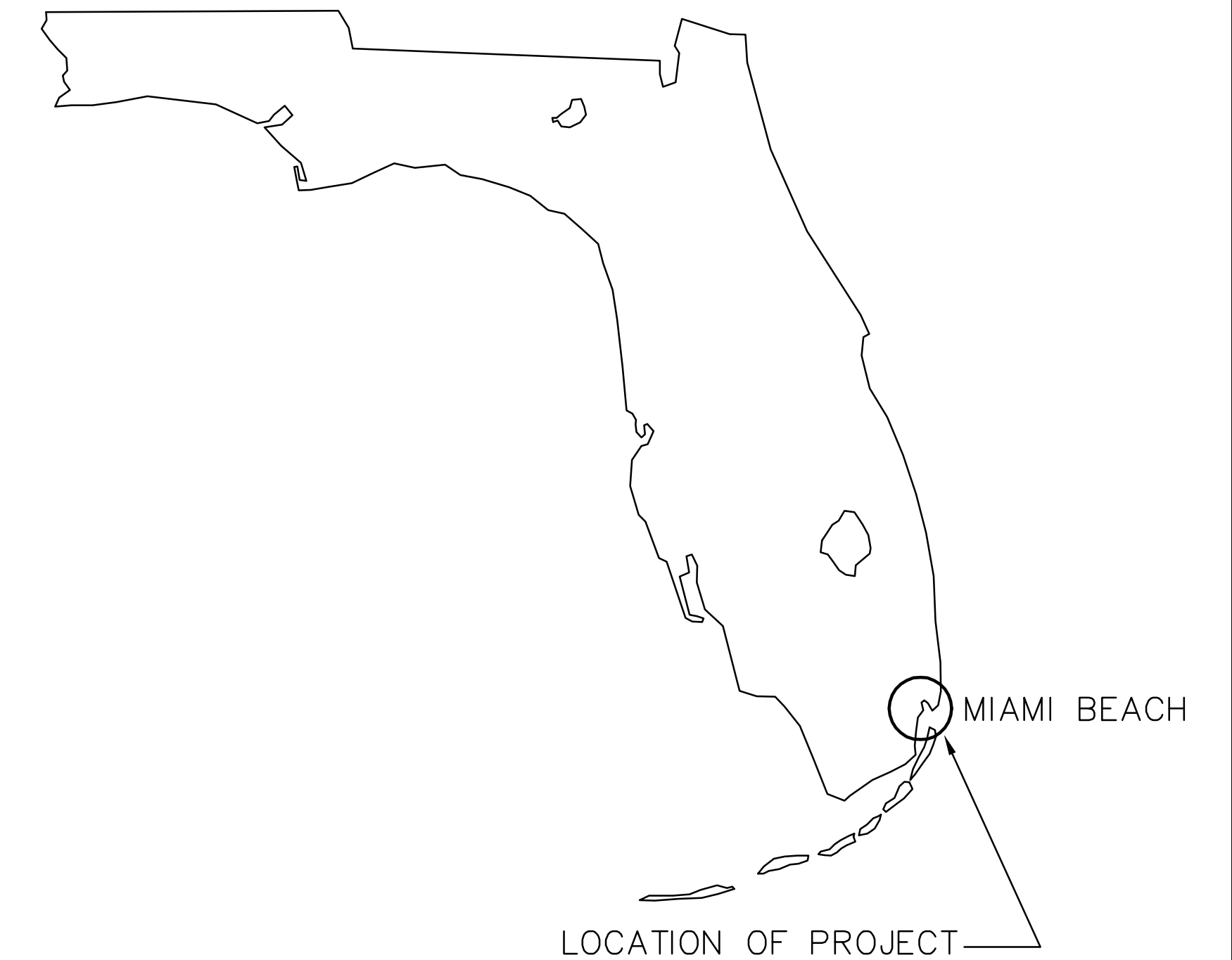
CITY ATTORNEY: RAUL J. AGUILA

PUBLIC WORKS DIRECTOR: ERIC T. CARPENTER, P.E.

CITY ENGINEER: BRUCE A. MOWRY, Ph.D., P.E.



LOCATION MAP



INDEX OF DRAWINGS

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SYMBOLS

SYMBOL	BLOCK	DESCRIPTION	SYMBOL	BLOCK	DESCRIPTION
	EXT_CB-D	EXISTING CATCH BASIN TYPE "D"		EXT_GV-BOX	EXISTING GAS MAIN VALVE BOX
	EXT_CB-DC	EXISTING CATCH BASIN TYPE "DC"		PRO_GV-BOX	PROPOSED GAS MAIN VALVE BOX
	EXT_CB-F	EXISTING CATCH BASIN TYPE "F"		EXT_E-MH	EXISTING ELECTRICAL MANHOLE
	EXT_SD-MH	EXISTING STORM DRAINAGE MANHOLE		EXT_LPOLW	EXISTING LIGHT POLE LOW LEVEL
	EXT_SS-MH	EXISTING SANITARY SEWER MANHOLE		EXT_LPMARM	EXISTING LIGHT POLE, MAST ARM
	PRO_CB-D	PROPOSED CATCH BASIN TYPE "D"		EXT_PWRPOLE	EXISTING POWER POLE
	PRO_CB-DC	PROPOSED CATCH BASIN TYPE "DC"		EXT_PT-POLE	EXISTING POWER & TELEPHONE POLE
	PRO_CB-F	PROPOSED CATCH BASIN TYPE "F"		EXT_T-MH	EXISTING TELEPHONE MANHOLE
	PRO_SD-MH	PROPOSED STORM DRAINAGE MANHOLE		EXT_TLPOLE	EXISTING TELEPHONE POLE
	PRO_SS-MH	PROPOSED SANITARY SEWER MANHOLE		GUY	GUY WIRE AND ANCHOR
	FD-ARROW	FLOW DIRECTION		PRO_LPOLW	PROPOSED LIGHT POLE LOW LEVEL
	EXT_FH	EXISTING FIRE HYDRANT		PRO_LPMARM	PROPOSED LIGHT POLE, MAST ARM
	EXT_11-BEND	EXISTING 11.25 DEGREE BEND		PRO_PWRPOLE	PROPOSED POWER POLE
	EXT_22-BEND	EXISTING 22.5 DEGREE BEND		PRO_PT-POLE	PROPOSED POWER & TELEPHONE POLE
	EXT_45-BEND	EXISTING 45 DEGREE BEND		PRO_TLPOLE	PROPOSED TELEPHONE POLE
	EXT_90-BEND	EXISTING 90 DEGREE BEND		PBOX	WRING PULL BOX
	EXT_CROSS	EXISTING CROSS		SIGMA	TRAFFIC SIGNAL MAST ARM
	EXT_TEE	EXISTING TEE		TRAFFIC	TRAFFIC SIGNAL POST
	EXT_RED	EXISTING REDUCER		SIGP	SIGNAL PEDESTRIAN
	EXT_VALVE	EXISTING VALVE		SIGC	SIGNAL CONTROL PANEL
	EXT_WM-BOX	EXISTING WATER METER BOX		PKGM	PARKING METER
	EXT_WV-BOX	EXISTING WATER VALVE BOX		SIGN	SIGN
	EXT_FV-BOX	EXISTING FORCE MAIN VALVE BOX		TREE	TREE
	PRO_FH	PROPOSED FIRE HYDRANT		PALM	PALM
	PRO_11-BEND	PROPOSED 11.25 DEGREE BEND		PINE	PINE TREE
	PRO_22-BEND	PROPOSED 22.5 DEGREE BEND		HEDGE	HEDGE
	PRO_45-BEND	PROPOSED 45 DEGREE BEND		NORTH	NORTH ORIENTATION
	PRO_90-BEND	PROPOSED 90 DEGREE BEND		HANDICAP	HANDICAPPED PAVING SIGN
	PRO_CROSS	PROPOSED CROSS		SURVARRW	INDICATE DISTANCE BETWEEN POINTS
	PRO_TEE	PROPOSED TEE		EXT_MAIL_B	EXISTING MAIL BOX
	PRO_RED	PROPOSED REDUCER		PRO_MAIL_B	PROPOSED MAIL BOX
	PRO_VALVE	PROPOSED VALVE		EXT_GAS_MH	EXISTING GAS MANHOLE
	PRO_WM-BOX	PROPOSED WATER METER BOX		EXT_TEL_BOX	EXISTING TELEPHONE BOX
	PRO_WV-BOX	PROPOSED WATER VALVE BOX		EXT_EL_M	EXISTING ELECTRIC METER
	PRO_FV-BOX	PROPOSED FORCE MAIN VALVE BOX		EXT_EL_OTL	EXISTING ELECTRIC OUTLET
	EXT_M_WELL	EXISTING MONITORING WELL		CPP	EXISTING CONCRETE POWER POLE
	PRO_M_WELL	PROPOSED MONITORING WELL		EXT_WD_P_P	EXISTING WOOD POWER POLE
	EXT_POST	EXISTING POST		EXT_SERV_BOX	EXISTING SERVICE BOX
	PRO_POST	PROPOSED POST		PRO_SERV_BOX	PROPOSED SERVICE BOX
	EXT_CL_OUT	EXISTING CLEAN OUT		EXT_BK_RK	EXISTING BIKE RACK
	PRO_CL_OUT	PROPOSED CLEAN OUT		PRO_BK_RK	PROPOSED BIKE RACK
	EXT_DRAIN	EXISTING DRAIN		EXT_TSH_CAN	EXISTING TRASH CAN
	PRO_DRAIN	PROPOSED DRAIN		PRO_TSH_CAN	PROPOSED TRASH CAN
	EXT_BCF_PREV	EXISTING BACK FLOW PREVENTER		EXT_FLAG_PL	EXISTING FLAG POLE
	PRO_BCF_PREV	PROPOSED BACK FLOW PREVENTER		PRO_FLAG_PL	PROPOSED FLAG POLE
	EXT_F_DEP_CONN	EXISTING FIRE DEPARTMENT CONNECTION		GYP	GUY POLE DEADMAN
	PRO_F_DEP_CONN	PROPOSED FIRE DEPARTMENT CONNECTION		BL	BASELINE OF SURVEY
	EXT_IJR_VALVE	EXISTING IRRIGATION VALVE		AC	AIR CONDITIONER UNIT
	PRO_IJR_VALVE	PROPOSED IRRIGATION VALVE		TB	TELEPHONE
	EXT_STAD_PIPE	EXISTING STANDING PIPE		CATVS	TELEPHONE COMMUNICATION RISER
	PRO_STAD_PIPE	PROPOSED STANDING PIPE		MHG	GREASE TRAP
	EXT_FLW_LT	EXISTING FLOOD/UPLIGHT		MH	UNKNOWN MANHOLE
	PRO_FLW_LT	PROPOSED FLOOD/UPLIGHT		SIGP_1	SIGNAL ON PEDESTAL
	EXT_BUS_BCH	EXISTING BUS BENCH		PMP	PUMP
	PRO_BUS_BCH	PROPOSED BUS BENCH		JON	OUTFALL LOCATION
	EXT_GAS_M	EXISTING GAS METER			
	PRO_GAS_M	PROPOSED GAS METER		XX.XX	EXIST_ELEV DENOTES EXISTING ELEVATIONS (TO BE INSERTED IN LAYER "ELEV")
	EXT_COM_B	EXISTING COMMUNICATION BOX		XX.XX	PROP_ELEV DENOTES PROPOSED ELEVATION (TO BE INSERTED IN LAYER "ELEV_PRO")
	PRO_COM_B	PROPOSED COMMUNICATION BOX			

CONTROL POINT TABLE

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET	BASELINE
1	525987.827	938839.398	2.03	MAG NAIL & WASHER LB 7388	11+47.29	0.77' LEFT	8th STREET
3	526387.216	938825.48	1.61	MAG NAIL & WASHER LB 7388	12+49.49	0.60' LEFT	9th STREET
5	526836.771	938811.744	1.93	MAG NAIL & WASHER LB 7388	16+73.78	0.17' RIGHT	10th STREET
7	526818.79	938287.258	2.79	MAG NAIL & WASHER LB 7388	11+48.99	0.03' LEFT	10th STREET
8	527284.42	938791.671	2.00	MAG NAIL & WASHER LB 7388	14+46.78	1.97' RIGHT	11th STREET
11	527636.221	938777.233	2.54	MAG NAIL & WASHER LB 7388	15+44.53	0.07' RIGHT	12th STREET
13	528086.287	938750.944	1.52	MAG NAIL & WASHER LB 7388	16+33.85	0.64' LEFT	13th STREET
14	528535.84	938758.476	1.72	MAG NAIL & WASHER LB 7388	23+46.97	0.16' RIGHT	14th STREET
17	528507.399	937915.05	3.62	MAG NAIL & WASHER LB 7388	15+03.07	0.66' LEFT	14th STREET
19	528781.802	938392.605	2.24	MAG NAIL & WASHER LB 7388	128+08.58	0.18' LEFT	WEST AVENUE
21	529317.745	938721.681	2.35	MAG NAIL & WASHER LB 7388	22+37.29	0.44' LEFT	15th STREET
23	529305.769	938379.009	2.79	MAG NAIL & WASHER LB 7388	133+32.70	4.38' RIGHT	WEST AVENUE
24	529626.953	938713.839	1.93	MAG NAIL & WASHER LB 7388	22+40.17	0.22' RIGHT	15th TERRACE
26	529614.904	938363.84	3.12	MAG NAIL & WASHER LB 7388	136+42.17	0.07' LEFT	WEST AVENUE
27	529887.405	938706.216	2.47	MAG NAIL & WASHER LB 7388	23+41.57	0.41' LEFT	16th STREET
28	529881.613	938549.61	2.73	MAG NAIL & WASHER LB 7388	21+84.86	0.04' LEFT	16th STREET
29	529875.911	938353.875	3.00	MAG NAIL & WASHER LB 7388	139+03.37	0.99' LEFT	WEST AVENUE
30	530414.766	937682.446	2.30	MAG NAIL & WASHER LB 7388	317+06.65	5.85' LEFT	LINCOLN ROAD
33	530437.81	938522.61	2.39	MAG NAIL & WASHER LB 7388	325+47.11	0.23' RIGHT	LINCOLN ROAD
34	530443.66	938690.252	2.98	MAG NAIL & WASHER LB 7388	327+14.85	0.19' RIGHT	LINCOLN ROAD
35	530430.373	938335.193	2.67	MAG NAIL & WASHER LB 7388	144+58.15	0.45' LEFT	WEST AVENUE
36	531020.818	938509.717	3.15	MAG NAIL & WASHER LB 7388	18+94.42	1.95' RIGHT	17th STREET
38	525975.0237	938492.3428	1.52	MAG NAIL & WASHER LB 7388	100+00.00	-	WEST AVENUE
39	531016.0775	938315.348	4.05	MAG NAIL & WASHER LB 7388	150+44.19	-	WEST AVENUE
40	526821.731	938460.163	3.8	MAG NAIL & WASHER LB 7388	108+47.34	0.56' LEFT	WEST AVENUE
102	530429.2	938783.47	3.48	SET 1/2" MAG NAIL LB7388	344+41.42	42.51' RIGHT	ALTON ROAD
103	526866.52	938944.43	1.04	SET 1/2" IRON PIPE LB7388	308+75.30	79.97' RIGHT	ALTON ROAD
105	530431.38	938378.01	2.82	FOUND MAG NAIL & WASHER SAMPED 87-14-PN05	324+02.37	1.64' RIGHT	LINCOLN ROAD
539	527274.5155	938445.028	2.27	FOUND MAG NAIL & WASHER LB24	113+00.38	-	WEST AVENUE
556	528074.1745	938417.275	2.52	FOUND MAG NAIL & WASHER "PBS&J" LB24	121+00.52	0.04' LEFT	WEST AVENUE

ABBREVIATIONS

ASPH.	ASPHALT		ELECTRIC OVERHEAD CABLE
DWY.	DRIVEWAY		U.G. WATER LINE
CH.L.F.	CHAIN LINK FENCE		SANITARY SEWER LINE
ENG.	ENGINEERING		STORM SEWER LINE
F.F.EL.	FINISH FLOOR ELEVATIONS		
C.B.S.	CONCRETE BLOCK STUCCO		
STA.	STATION		
CONC.	CONCRETE		
SDWK.	SIDEWALK		
RCP	REINFORCED CONCRETE PIPE		
DIP	DUCTILE IRON PIPE		
CMP	CORRUGATE METAL PIPE		
TYP.	TYPICAL		
L	LEFT		
R	RIGHT		
P.B.	PLAT BOOK		
PG.	PAGE		
STA:	STATION		
I.D.	IDENTIFICATION		
FT	FEET		
Ø	DIAMETER		

FIELD BOOK REFERENCES:

F.B. 410	PG. 9-25
F.B. 411	PG. 53-65
F.B. 412	PG. 32-38
F.B. 413	PG. 36-73
F.B. 414	PG. 32-51
F.B. 415	PG. 17-78
F.B. 416	PG. 1-73
F.B. 418	PG. 1-19
F.B. 420	PG. 2-73
F.B. 422	PG. 5-22
F.B. 423	PG. 22-63
F.B. 424	PG. 18-23
F.B. 427	PG. 24-30

SURVEYOR'S REPORT
TOPOGRAPHIC SURVEY
FOR WEST AVENUE FROM 8th STREET TO 17th STREET
CITY OF MIAMI BEACH, MIAMI-DADE COUNTY, FLORIDA

THE DATE OF COMPLETION OF ORIGINAL FIELD SURVEY (THE "SURVEY DATE") WAS ON JULY 27, 2017.

GENERAL DESCRIPTION OF PROJECT AREA:

WEST AVENUE, FROM 8TH STREET TO 17TH STREET, IN THE CITY OF MIAMI BEACH, MIAMI-DADE COUNTY, FLORIDA, THE LOCATION OF SAME AS BEING MORE FULLY SHOWN ON THE SURVEY MAPS ATTACHED HERETO, MADE A PART HEREOF AND INCORPORATED HEREIN BY REFERENCE.

SURVEYOR NOTES:

- THE GENERAL DESCRIPTION OF THE PROJECT AREA WAS GENERATED FROM THE UNDERLYING PLATS OF RECORD AND CLIENT DIRECTION.
- BEARINGS AS SHOWN HEREON REFER TO A CALCULATED BEARING N01°59'06"W ALONG THE BASELINE OF SURVEY FOR WEST AVENUE AS SHOWN ON THE SURVEY MAP. FOR THE PURPOSE OF THIS SURVEY, THIS MAY BE CONSIDERED A WELL-MONUMENTED AND IDENTIFIED LINE AS DELINEATED ON THE SURVEY MAP. THE BASELINE OF SURVEY WAS CREATED BY RECOVERY OF A SUFFICIENT AMOUNT OF RIGHT OF WAY AND CENTERLINE CONTROL THROUGHOUT THE ENTIRE PROJECT AREA CORRIDOR.
- ELEVATIONS AS DEPICTED ON THE SURVEY MAP AND REFERENCED IN THIS REPORT ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- THE FOLLOWING BENCHMARKS WERE USED FOR THIS SURVEY:
 - CITY OF MIAMI BEACH BENCHMARK CBM 16 A ADJUSTED, ELEVATION = +2.52 FEET (NAVD 88). THE BENCHMARK IS A MAG NAIL AND WASHER ON TOP OF CURB AND IS LOCATED ON THE SOUTHWEST CORNER OF 16th STREET AND ALTON ROAD.
 - CITY OF MIAMI BEACH BENCHMARK CBM 08 15 A ADJUSTED, ELEVATION = +2.33 FEET (NAVD 88). THE BENCHMARK IS A MAG NAIL AND WASHER ON TOP OF CURB AND IS LOCATED ON THE NORTHEAST CORNER 8th STREET AND ALTON ROAD.
 - CITY OF MIAMI BEACH BENCHMARK CBM 13 05 R ADJUSTED, ELEVATION = +1.94 FEET (NAVD 88). THE BENCHMARK IS A NAIL AND WASHER IS LOCATED ON THE NORTHEAST OF INTERSECTION OF 11th STREET AND WEST AVENUE.
 - CITY OF MIAMI BEACH BENCHMARK CBM 15 06 ADJUSTED, ELEVATION = +2.26 FEET (NAVD 88). THE BENCHMARK IS A MAG NAIL AND WASHER AND IS LOCATED AT THE INTERSECTION OF WEST AVENUE AND 15th STREET.
 - CITY OF MIAMI BEACH BENCHMARK CBM LR 05 R ADJUSTED, ELEVATION = +2.82 FEET. THE BENCHMARK IS A MAG NAIL AND WASHER AND IS LOCATED AT THE INTERSECTION OF LINCOLN ROAD AND WEST AVENUE.
 - MIAMI-DADE COUNTY BENCHMARK C-100, ELEVATION +11.05 FEET (NGVD 29) AND +9.50 FEET (NAVD 88). THE BENCHMARK IS A BRASS DISC IN THE NORTH CORNER OF THE BRIDGE LOCATED 25 FEET SOUTH OF THE CENTERLINE OF THE EAST BOUND LANE OF DADE BLVD AND 65 FEET EAST OF THE CENTERLINE OF BAY ROAD.
- ALL COORDINATES (NORTHING AND EASTING) OF THE FEATURES AS SHOWN ON THE SURVEY ARE BASED ON REAL TIME KINEMATIC (RTK) MEASUREMENT TAKEN FROM FLORIDA DEPARTMENT OF TRANSPORTATION HORIZONTAL NETWORK CONTROL SYSTEM (FHNM). THE NETWORK BROADCASTS IN NAD 83 AND NAVD 88 DATUMS WITH STATED HORIZONTAL ACCURACIES TO 0.04 AND VERTICAL ACCURACIES TO 0.07. HORIZONTAL COORDINATE VALUES AS EXPRESSED HEREIN ARE BASED ON THE STATE PLANE COORDINATE SYSTEM FOR THE EAST ZONE OF FLORIDA, NORTH AMERICAN DATUM 1983/2011 ADJUSTMENT.
- MEASUREMENTS WERE CONDUCTED IN THE FIELD TO ACQUIRE SAID COORDINATE VALUES, BASED ON THE FOLLOWING STATION:
 - FLORIDA PERMANENT REFERENCE MONUMENT SITE NAME "MIAMI BEACH", SITE CODE FLMB.
 - PN05 AND PN03 FROM PROJECT NETWORK CONTROL FOR SR. 907 AND WEST AVENUE PREPARED BY TRIANGLE SURVEYING AND MAPPING NOW MASER CONSULTING FOR FLORIDA DEPARTMENT OF TRANSPORTATION UNDER FINANCIAL PROJECT ID 249911-1-52-01.
 - PN03

NORTHING:	526866.515
EASTING:	938944.434
ELEVATION:	2.60 FEET (NGVD 29)

 DESCRIPTION: FOUND MAG NAIL AND WASHER STAMPED SR 907 87-14-PN05
 - PN05

NORTHING:	530431.384
EASTING:	938378.009
ELEVATION:	4.38 FEET (NGVD 29)

 DESCRIPTION: FOUND MAG NAIL AND WASHER STAMPED SR 907 87-14-PN03

SURVEYOR'S CERTIFICATION:

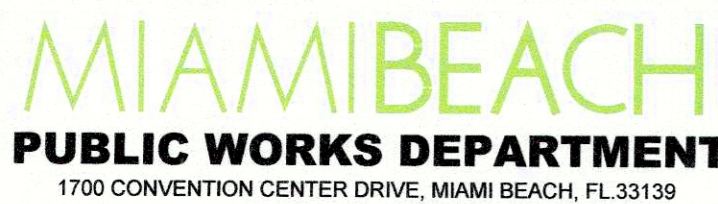
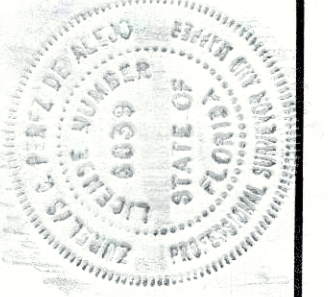
THIS IS TO CERTIFY TO THE HEREIN NAMED FIRM AND/OR PERSONS THAT IN MY PROFESSIONAL OPINION, THIS MAP OR PLAT OF THE HEREIN DESCRIBED PROPERTY IS TRUE AND CORRECT AS RECENTLY SURVEYED AND PLATTED UNDER MY DIRECTION. I FURTHER CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED MEETS THE STANDARD OF PRACTICE REQUIREMENTS, ADOPTED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, PURSUANT TO CHAPTER 472.027 FLORIDA STATUTES, AS SET FORTH IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, UNDER SECTIONS 5J-17.051 AND 5J-17.052 AND IS A "TOPOGRAPHIC SURVEY".

Zurelys Cura Perez de Alejo

ZURELYS CURA PEREZ DE ALEJO
PROFESSIONAL SURVEYOR AND MAPPER # 6639
STATE OF FLORIDA

DATE OF COMPLETION OF FIELD SURVEY: JULY 27, 2017
DATE OF CERTIFICATION: AUGUST 31, 2017

THE SURVEY MAP AND NOTES AND/OR REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS AND REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES. THIS DOCUMENT CONSISTS OF MULTIPLE EXHIBITS AND EACH PART THEREOF SHALL NOT BE CONSIDERED FULL, VALID AND COMPLETE UNLESS ACCOMPANIED BY THE OTHERS.



NEIGHBORHOOD: WEST AVENUE
TITLE: TOPOGRAPHIC SURVEY



CITY MANAGER: JIM

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1000	DRAINAGE MANHOLE	2.27	-5.53(N)(18") UNABLE TO DETERMINE TYPE -5.45(E)(18") UNABLE TO DETERMINE TYPE -5.45(W)(18") UNABLE TO DETERMINE TYPE -6.03(BOTTOM) TOP OF DIRT
1001	CATCH BASIN	1.56	-6.94(E)(48" CONC. PIPE) -5.57(S)(48" CONC. PIPE) -6.94(BOTTOM)
1002	CATCH BASIN	1.94	-0.31(E) UNABLE TO DETERMINE SIZE AND TYPE -0.06(BOTTOM)
1003	DRAINAGE MANHOLE	2.02	-5.55(E)(18") UNABLE TO DETERMINE TYPE -0.79(W) UNABLE TO DETERMINE SIZE AND TYPE -6.69(BOTTOM)
1004	CATCH BASIN	0.71	-1.79(S)(18" CMP) -2.29(BOTTOM) BOTTOM ELEVATION ON TOP OF DIRT
1005	CATCH BASIN	0.96	NO PIPES FOUND -7.84(BOTTOM) BOTTOM ELEVATION ON TOP OF DIRT
1006	SANITARY SEWER MANHOLE	1.37	-2.18(N)(8" PVC PIPE) -2.08(S)(8" PVC PIPE)
1007	SANITARY SEWER MANHOLE	2.05	-4.05(E)(12") UNABLE TO DETERMINE TYPE -3.85(SW)(12") UNABLE TO DETERMINE TYPE -3.95(NW)(12") UNABLE TO DETERMINE TYPE
1008	SANITARY SEWER MANHOLE	1.62	0.12(N)(8" PVC PIPE) -3.48(E)(10") UNABLE TO DETERMINE TYPE -3.48(W)(10") UNABLE TO DETERMINE TYPE
1009	SANITARY SEWER MANHOLE	1.24	-3.51(E)(10" PVC PIPE) -3.21(S)(8" PVC PIPE) -3.51(W)(12") UNABLE TO DETERMINE TYPE
1010	SANITARY SEWER MANHOLE	2.30	-2.70 (BOTTOM)
1011	DRAINAGE MANHOLE	1.37	-4.23(BOTTOM) NO PIPES FOUND
1012	SANITARY SEWER MANHOLE	2.33	-3.92(N)(14" PVC PIPE) -3.82(S)(14" PVC PIPE) -3.77(W)(12" PVC PIPE)
1013	DRAINAGE MANHOLE	1.12	-7.18(N) UNABLE TO DETERMINE SIZE AND TYPE -8.78(S) UNABLE TO DETERMINE SIZE AND TYPE -2.28(SE)(12" PVC PIPE) -9.53(BOTTOM)
1014	SANITARY SEWER MANHOLE	1.30	-3.95(E)(12") UNABLE TO DETERMINE TYPE -3.95(W)(12") UNABLE TO DETERMINE TYPE
1015	CATCH BASIN	0.83	-1.47(S)(18" CMP) -1.67(BOTTOM)
1016	UNKNONKN MANHOLE	2.22	-1.28 UNABLE TO DETERMINE SIZE AND TYPE -1.78 TOP OF DIRT COVER BROKEN
1017	SANITARY SEWER MANHOLE	1.80	-3.85(E)(12") UNABLE TO DETERMINE TYPE -3.85(W)(12") UNABLE TO DETERMINE TYPE
1018	CATCH BASIN	0.97	NO PIPES FOUND
1019	DRAINAGE MANHOLE	1.56	-0.89(W)(12" PVC PIPE) -4.94(BOTTOM)
1020	CATCH BASIN	1.00	-7.00(S) UNABLE TO DETERMINE SIZE AND TYPE -7.00(BOTTOM)
1021	CATCH BASIN	1.22	0.02(NE)(10" PVC PIPE) -0.38(BOTTOM)
1022	SANITARY SEWER MANHOLE	1.80	-1.48(N)(8") UNABLE TO DETERMINE TYPE -1.00(E)(6") UNABLE TO DETERMINE TYPE 0.20(S)(8" PVC PIPE)
1023	SANITARY SEWER MANHOLE	1.42	-2.00(N)(8") UNABLE TO DETERMINE TYPE
1024	CATCH BASIN	1.49	-0.52(BOTTOM) FULL OF DIRT
1025	SANITARY SEWER MANHOLE	2.09	-1.41(N)(8") UNABLE TO DETERMINE TYPE -1.41(S)(8") UNABLE TO DETERMINE TYPE -1.16(W)(6") UNABLE TO DETERMINE TYPE
1026	CATCH BASIN	1.51	-0.04(SE)(10" PVC PIPE) -0.29(BOTTOM)

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1027	SANITARY SEWER MANHOLE	1.89	UNABLE TO OPEN
1028	SANITARY SEWER MANHOLE	1.60	-2.05(N)(8") UNABLE TO DETERMINE TYPE -2.02(S)(8") UNABLE TO DETERMINE TYPE -0.87(W)(8") UNABLE TO DETERMINE TYPE
1029	CATCH BASIN	1.32	-0.33(N)(12" CONC. PIPE) -0.08(BOTTOM) FULL OF DIRT
1030	DRAINAGE MANHOLE	2.02	-0.53(E)(10" DIP) -0.78(SW)(10" DIP)
1031	CATCH BASIN	1.75	-0.05(N)(8") UNABLE TO DETERMINE TYPE -0.05(BOTTOM) TOP OF DIRT
1032	DRAINAGE MANHOLE	1.94	-2.49(S)(6") UNABLE TO DETERMINE TYPE -0.96(NW)(10" DIP) -2.56(BOTTOM) TOP OF DIRT
1033	DRAINAGE MANHOLE	1.73	-0.90(N)(8") UNABLE TO DETERMINE TYPE -0.14(S)(8") UNABLE TO DETERMINE TYPE 0.01(W)(10") UNABLE TO DETERMINE TYPE
1034	CATCH BASIN	0.82	-7.88(BOTTOM) FULL OF WATER AND DEBRIS
1035	SANITARY SEWER MANHOLE	2.51	-1.73(N)(8") UNABLE TO DETERMINE TYPE 0.11(S)(8") UNABLE TO DETERMINE TYPE -1.29(W)(6") UNABLE TO DETERMINE TYPE
1036	SANITARY SEWER MANHOLE	1.24	-2.76(E)(8") UNABLE TO DETERMINE TYPE -2.68(S)(8") UNABLE TO DETERMINE TYPE
1037	SANITARY SEWER MANHOLE	2.04	-4.72(N)(12") UNABLE TO DETERMINE TYPE -4.72(S)(12") UNABLE TO DETERMINE TYPE -3.16(W)(8") UNABLE TO DETERMINE TYPE
1038	DRAINAGE MANHOLE	1.42	-3.14(N)(24" RCP) -2.44(E)(24" RCP) -6.30(S)(24") UNABLE TO DETERMINE TYPE -7.33(BOTTOM)
1039	DRAINAGE MANHOLE	1.80	-0.78(N)(8") UNABLE TO DETERMINE TYPE -1.04(E)(8") UNABLE TO DETERMINE TYPE
1040	CATCH BASIN	1.75	-0.62(S)(8") UNABLE TO DETERMINE TYPE -0.75(BOTTOM) TOP OF DIRT
1041	DRAINAGE MANHOLE	1.80	-0.55(N)(12" RCP) -0.48(S)(12" RCP)
1042	CATCH BASIN	1.31	-2.39(S)(24" CONC. PIPE) -3.19(BOTTOM)
1043	DRAINAGE MANHOLE	2.12	-4.96(N)(24" CORRUGATED PIPE) -1.33(S)(18" CORRUGATED PIPE) -5.18(BOTTOM)
1044	DRAINAGE MANHOLE	2.02	-4.98(N)(24" CORRUGATED PIPE) -5.26(S)(24" CORRUGATED PIPE) -2.28(E)(14" CORRUGATED PIPE) -2.29(W)(14" CORRUGATED PIPE) -5.50(BOTTOM)
1045	CATCH BASIN	0.77	-6.48(BOTTOM)
1046	CATCH BASIN	1.03	-0.52(N)(12" PLASTIC PIPE) -0.62(S)(12" CONC. PIPE) -0.67(BOTTOM)
1047	CATCH BASIN	0.94	-6.26(BOTTOM) FULL OF WATER AND DIRT
1048	CATCH BASIN	0.97	-0.63(W)(12" PLASTIC PIPE) -0.58(BOTTOM) FULL OF DIRT
1049	CATCH BASIN	0.93	-0.67(E)(12" PLASTIC PIPE) -0.70(S)(12" PLASTIC PIPE) -0.67(BOTTOM) FULL OF DIRT
1050	SANITARY SEWER MANHOLE	2.16	-2.79(N)(12" CLAY) -2.19(S)(12" CLAY) -2.39(W)(10" CLAY)
1051	CATCH BASIN	1.00	FULL OF DIRT
1052	SANITARY SEWER MANHOLE	1.93	-3.05(N)(8") UNABLE TO DETERMINE TYPE -2.47(S)(8") UNABLE TO DETERMINE TYPE -2.77(W)(6") UNABLE TO DETERMINE TYPE
1053	CATCH BASIN	1.00	FULL OF DIRT
1054	CATCH BASIN	0.89	-2.11(N)(12" CONC. PIPE) -2.03(S)(12" CONC. PIPE) -2.71(BOTTOM)

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1055	SANITARY SEWER MANHOLE	1.61	-3.90(S)(8") UNABLE TO DETERMINE TYPE -3.70(N)(8" PVC)(*)
1056	DRAINAGE MANHOLE	1.54	-7.94(N)(24" RCP)(*) -8.91(E)(24" CONC. PIPE) -9.66(BOTTOM)
1057	CATCH BASIN	0.88	-8.14(W)(24" RCP)(*) -9.26(BOTTOM)(*)
1058	UNKNONKN MANHOLE	1.80	INACCESSIBLE AFTER TWO ATTEMPTS
1059	DRAINAGE MANHOLE	1.77	UNABLE TO OPEN
1060	CATCH BASIN	0.57	-2.43(N)(12" CONC. PIPE) -1.23(NE)(12" CONC. PIPE) -2.23(S)(12" CONC. PIPE) -2.43(BOTTOM)
1061	CATCH BASIN	3.91	3.06(E)(6" PVC PIPE) 2.91(N/S) UNABLE TO DETERMINE SIZE AND TYPE
1062	CATCH BASIN	1.49	-8.08(BOTTOM)
1063	CATCH BASIN	1.75	-1.65(BOTTOM) NO PIPES FOUND 1' WIDE TRENCH DRAIN
1064	CATCH BASIN	1.80	-2.31(N)(18" PVC PIPE) -5.75(BOTTOM)
1065	DRAINAGE MANHOLE	1.73	-2.18(N)(8") UNABLE TO DETERMINE TYPE -1.78(S)(4" PVC PIPE) -1.87(BOTTOM)
1066	DRAINAGE MANHOLE	3.21	-11.28(E)(24") UNABLE TO DETERMINE TYPE -12.55(BOTTOM)
1067	SANITARY SEWER MANHOLE	4.86	-1.49(SE)(15" PVC PIPE) -1.54(W) UNABLE TO DETERMINE SIZE AND TYPE
1068	CATCH BASIN	3.20	-0.28(N)(18" CONC. PIPE) -3.20(BOTTOM)
1069	VORTEX BOX	3.27	-7.83 (96"φ CONC. BOX)
1070	VORTEX BOX	3.29	-7.83 (96"φ CONC. BOX)
1071	SANITARY SEWER MANHOLE	3.42	-3.38(S)(15") UNABLE TO DETERMINE TYPE -3.73(E)(8") UNABLE TO DETERMINE TYPE -3.46(W)(8") UNABLE TO DETERMINE TYPE
1072	DRAINAGE MANHOLE	3.63	-0.37(BOTTOM)
1073	DRAINAGE MANHOLE	2.19	-1.26(NE)(12" PVC PIPE) -1.26(NE)(12" PVC PIPE) -2.66(W)(24" CONC. PIPE)
1074	CATCH BASIN	1.11	-2.09(NW)(12" PVC PIPE) -3.59(E)(24" CONC. PIPE) -3.39(BOTTOM) FULL OF DIRT UNABLE TO DETERMINE PIPE INFORMATION RUN W AND SW
1075	DRAINAGE MANHOLE	3.02	-4.48(BOTTOM) NO PIPES FOUND
1076	DRAINAGE MANHOLE	3.84	-8.41(E)(48" CONC. PIPE) -13.56(N)(60" CONC. PIPE)
1077	DRAINAGE MANHOLE	2.93	-11.04(E)(24") UNABLE TO DETERMINE TYPE -10.37(BOTTOM)
1078	SANITARY SEWER MANHOLE	3.77	-3.81(N)(10") UNABLE TO DETERMINE TYPE -3.90(E)(10") UNABLE TO DETERMINE TYPE -3.20(SW)(10") UNABLE TO DETERMINE TYPE -3.78(S)(8" PVC)(*)
1079	DRAINAGE MANHOLE	3.99	-13.96(E)(48" CONC. PIPE) -6.81(W)(48" CONC. PIPE) -14.01(BOTTOM)
1080	CATCH BASIN	2.70	-2.56(E)(24" RCP)(*) -2.56(BOTTOM)(*)
1081	DRAINAGE MANHOLE	2.90	-6.80(E)(48" CONC. PIPE) -11.20(W)(48" CONC. PIPE) 1.30(BOTTOM)
1082	DRAINAGE MANHOLE	1.85	-3.30(E)(24" CONC. PIPE) -1.30(SW)(12" PVC PIPE) -3.30(BOTTOM)
1083	DRAINAGE MANHOLE	2.94	STORM WATER QUALITY UNIT NO PIPES FOUND

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1084	DRAINAGE MANHOLE	2.98	STORM WATER QUALITY UNIT NO PIPES FOUND
1085	DRAINAGE MANHOLE	1.93	-4.67(SE)(36" CONC. PIPE) -6.22(W)(48" CONC. PIPE) -14.07(BOTTOM)
1086	DRAINAGE MANHOLE	3.20	-7.72(N)(24" HDPE)(*) -7.73(S)(24" RCP)(*) -6.64(E)(36"X72" CBC)(*) -6.64(W)(36"X72" CBC)(*) -8.15(BOTTOM)(*)
1087	DRAINAGE MANHOLE	3.47	-6.25(E)(36"X72" CBC)(*) -6.25(W)(36"X72" CBC)(*) -6.83(BOTTOM)
1088	CATCH BASIN	3.66	-1.26(N)(12" PVC PIPE) -6.71(E)(72" CONC. PIPE) -6.72(W)(72" CONC. PIPE) -6.69(BOTTOM)
1089	DRAINAGE MANHOLE	3.95	-0.27(NW)(8" PVC PIPE) -0.93(SE)(8" PVC PIPE) 0.07(S)(18")(*) -6.50(BOTTOM) TRENCH 5' WIDE E TO W
1090	SANITARY SEWER MANHOLE	2.08	-4.62(N)(12" PVC PIPE) -4.17(E)(10" PVC PIPE) -4.92(W)(12" PVC PIPE)
1091	DRAINAGE MANHOLE	3.89	-5.41(N)(18")(*) -6.67(E)(36"X72" CBC)(*) -6.67(W)(36"X72" CBC)(*) -6.67(BOTTOM)(*)
1092	DRAINAGE MANHOLE	3.44	-11.04(E)(42") UNABLE TO DETERMINE TYPE -9.77(S)(36" RCP) -12.78(BOTTOM)
1093	DRAINAGE MANHOLE	1.34	-2.76(N)(15" IRON PIPE) -6.66(E)(72" CONC. PIPE) -6.66(W)(72") UNABLE TO DETERMINE TYPE -6.66(BOTTOM)
1094	SANITARY SEWER MANHOLE	3.29	-10.76(W)(60" CONC. PIPE) -11.03(E)(48" CONC. PIPE)
1095	UNKNOWN MANHOLE	2.03	-6.57(BOTTOM) -3.52 TOP OF PIPE RUN NORTH SOUTH
1096	DRAINAGE MANHOLE	1.38	-3.02(S)(18" PVC PIPE) -6.42(BOTTOM)
1097	DRAINAGE MANHOLE	3.01	-8.44(N)(12") UNABLE TO DETERMINE TYPE -5.21(S)(18") UNABLE TO DETERMINE TYPE -9.14(BOTTOM)(*)
1098	CATCH BASIN	3.22	-4.29(S)(24" CONC. PIPE) -5.09(BOTTOM)
1099	CATCH BASIN	0.85	-2.55(BOTTOM) NO PIPES FOUND 1' WIDE TRENCH DRAIN
1100	CATCH BASIN	0.60	-2.75(E)(12" CONC. PIPE) -1.90(W)(10" PVC PIPE) -4.00(BOTTOM)
1101	DRAINAGE MANHOLE	2.52	-5.84(N)(10" PVC PIPE) -10.34(W)(27") UNABLE TO DETERMINE TYPE -14.18(BOTTOM)
1102	CATCH BASIN	0.22	-3.03(S)(14") UNABLE TO DETERMINE TYPE -5.03(BOTTOM) 1' WIDE TRENCH DRAIN
1103	DRAINAGE MANHOLE	1.83	-8.05(N)(48" ELLIPT. RCP)(*) -8.77(SE)(48" ELLIPT. RCP)(*) -9.57(BOTTOM)
1104	CATCH BASIN	0.77	-1.43(N)(12") UNABLE TO DETERMINE TYPE -1.48(S)(12") UNABLE TO DETERMINE TYPE -0.43(BOTTOM)
1105	DRAINAGE MANHOLE	0.81	-10.65(E)(21") UNABLE TO DETERMINE TYPE -7.01(S)(48" ELLIPT. RCP)(*) -11.09(BOTTOM)
1106	CATCH BASIN	0.59	-9.89(W)(24" RCP)(*) -10.71(BOTTOM)
1107	CATCH BASIN	0.77	-1.51(S)(12") UNABLE TO DETERMINE TYPE -1.53(BOTTOM)

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1108	SANITARY SEWER MANHOLE	1.75	-2.50(N)(10" PVC PIPE) -2.36(E)(8" PVC PIPE) -2.55(S)(10" PVC PIPE) -2.55(BOTTOM)
1109	SANITARY SEWER MANHOLE	1.91	-1.79(E)(6" CLAY)
1110	CATCH BASIN	0.95	INACCESSIBLE AFTER TWO ATTEMPTS
1111	DRAINAGE MANHOLE	1.77	-2.52(E)(15" PLASTIC PIPE) -2.52(W)(15" CMP) -2.44(BOTTOM) -1.71 TOP OF 10" PIPE RUNNING N TO S
1112	CATCH BASIN	1.01	-2.94(S)(24" CONC. PIPE) -5.19(BOTTOM)
1113	DRAINAGE MANHOLE	1.74	-2.34(N)(10" PVC PIPE) -1.54(E)(15" CMP) -2.36(S)(10" PVC PIPE) -2.13(W)(8" CMP) -1.66(BOTTOM)
1114	CATCH BASIN	1.55	-0.80(N)(12" CONC. PIPE) -0.85(BOTTOM)
1115	DRAINAGE MANHOLE	1.82	-2.58(N)(12" CONC. PIPE) -3.67(S)(12" CLAY) -1.58(W)(12" PVC PIPE) -2.53(BOTTOM)
1116	SANITARY SEWER MANHOLE	1.94	-1.93(S)(10" PVC PIPE) -1.67(W)(12" PVC PIPE)
1117	DRAINAGE MANHOLE	1.91	-3.41(N)(6" PVC PIPE) -5.38(E)(24") UNABLE TO DETERMINE TYPE -5.58(W)(24") UNABLE TO DETERMINE TYPE -5.96(BOTTOM) TOP OF DIRT
1118	DRAINAGE MANHOLE	1.61	-5.09(NE)(24" RCP) -2.39(S)(12") UNABLE TO DETERMINE TYPE -5.27(W)(24") UNABLE TO DETERMINE TYPE -5.11(BOTTOM) TOP OF DIRT
1119	DRAINAGE MANHOLE	1.65	-4.81(N)(24") UNABLE TO DETERMINE TYPE -0.83(E)(10") UNABLE TO DETERMINE TYPE -4.98(SW)(24" RCP) -4.83(BOTTOM) TOP OF DIRT
1120	DRAINAGE MANHOLE	1.39	0.09(E)(4" PVC PIPE) -2.09(W)(10") UNABLE TO DETERMINE TYPE
1121	CATCH BASIN	1.59	-4.41(N)(18") UNABLE TO DETERMINE TYPE -4.61(BOTTOM) FULL OF DEBRIS
1122	DRAINAGE MANHOLE	1.57	-2.07(N)(10" CONC. PIPE) -2.07(E)(10" CONC. PIPE) -1.23(S)(12" CONC. PIPE) -2.23(BOTTOM)
1123	SANITARY SEWER MANHOLE	1.86	-0.55(N)(14" CMP) -1.72(NE)(10") UNABLE TO DETERMINE TYPE -5.01(E)(24") UNABLE TO DETERMINE TYPE -4.95(S)(24") UNABLE TO DETERMINE TYPE TOP OF DIRT -0.02(W)(10") UNABLE TO DETERMINE TYPE -4.957(BOTTOM)
1124	SANITARY SEWER MANHOLE	1.78	-4.38(N)(12") UNABLE TO DETERMINE TYPE -4.74(E)(18") UNABLE TO DETERMINE TYPE -5.14(W)(24") UNABLE TO DETERMINE TYPE -5.08(BOTTOM)
1125	DRAINAGE MANHOLE	2.28	-3.24(N)(12" CONC. PIPE) -4.53(E)(24" CLAY) -2.18(S)(12" CONC. PIPE) -4.73(W)(24" CLAY) -4.63(BOTTOM)
1126	DRAINAGE MANHOLE	1.92	-2.23(N)(10" PLASTIC PIPE) -4.06(E)(24" CLAY) -2.38(S)(10" PLASTIC PIPE) -2.48(S)(10" PLASTIC PIPE) -3.98(W)(24") UNABLE TO DETERMINE TYPE -4.031(BOTTOM)
1127	DRAINAGE MANHOLE	2.05	-7.45 (N) UNABLE TO DETERMINE SIZE AND TYPE -4.25(E)(24" CONC. PIPE) -5.20(S)(18") UNABLE TO DETERMINE TYPE -4.15(W)(24" CONC. PIPE) -7.85(BOTTOM)
1128	SANITARY SEWER MANHOLE	2.13	-2.67(N)(10") UNABLE TO DETERMINE TYPE -2.74(S)(10") UNABLE TO DETERMINE TYPE -2.77(E)(12") UNABLE TO DETERMINE TYPE -2.71(W)(10") UNABLE TO DETERMINE TYPE

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1129	SANITARY SEWER MANHOLE	2.39	-2.76(E)(12") UNABLE TO DETERMINE TYPE -2.68(W)(12") UNABLE TO DETERMINE TYPE
1130	SANITARY SEWER MANHOLE	2.11	-3.19(E)(12" PVC PIPE) -3.14(W)(12" PVC PIPE)
1131	CATCH BASIN	1.53	-3.68(S)(18" CONC. PIPE) -6.78(BOTTOM) FULL OF WATER AND DEBRIS
1132	CATCH BASIN	1.69	-1.12(N)(12" CONC. PIPE) -1.13(S)(12" CONC. PIPE) -1.12(BOTTOM)
1133	CATCH BASIN	1.19	-1.06(BOTTOM)
1134	SANITARY SEWER MANHOLE	2.09	-2.70(N)(10") UNABLE TO DETERMINE TYPE -1.72(E)(4") UNABLE TO DETERMINE TYPE -2.67(S)(10") UNABLE TO DETERMINE TYPE
1135	CATCH BASIN	1.95	-0.06(N)(12" PLASTIC PIPE) -0.71(S)(12" CONC. PIPE) -0.66(BOTTOM)
1136	CATCH BASIN	1.81	-0.78(N)(12" PLASTIC PIPE) -0.08(S)(12" PLASTIC PIPE) -0.89(BOTTOM)
1137	SANITARY SEWER MANHOLE	2.20	-2.66(N)(10") UNABLE TO DETERMINE TYPE -1.56(E)(6") UNABLE TO DETERMINE TYPE -2.71(S)(10") UNABLE TO DETERMINE TYPE
1138	CATCH BASIN	1.83	-0.15(E)(12" PLASTIC PIPE) -0.21(S)(12" PLASTIC PIPE) -0.65(BOTTOM)
1139	CATCH BASIN	2.73	-2.74(BOTTOM)
1140	CATCH BASIN	1.79	-1.11(N)(8" CONC. PIPE) -1.26(S)(8" IRON PIPE) -0.96(W)(6" CONC. PIPE) -1.11(BOTTOM)
1141	SANITARY SEWER MANHOLE	2.52	-2.32(N)(12") UNABLE TO DETERMINE TYPE -2.39(S)(10") UNABLE TO DETERMINE TYPE -2.26(W)(10") UNABLE TO DETERMINE TYPE
1142	CATCH BASIN	2.11	FULL OF DIRT
1143	SANITARY SEWER MANHOLE	3.07	-2.30(N)(12") UNABLE TO DETERMINE TYPE -2.44(E) (15" IRON PIPE) -2.29(S)(12") UNABLE TO DETERMINE TYPE
1144	DRAINAGE MANHOLE	2.74	-1.86(NW)(24" CONC. PIPE) -5.06(S)(30" CONC. PIPE) -3.51(NE)(24" CONC. PIPE) -7.26(BOTTOM)
1145	CATCH BASIN	1.99	-2.05(E)(24" CONC. PIPE) -6.50(S)(24") UNABLE TO DETERMINE TYPE -8.01(BOTTOM)
1146	DRAINAGE MANHOLE	2.56	-1.79(N)(24" CONC. PIPE) -1.15(S)(24" CONC. PIPE) -2.54(W)(24" CONC. PIPE) -3.80(BOTTOM)
1147	DRAINAGE MANHOLE	3.62	-0.54(E)(18" PLASTIC PIPE) -1.98(BOTTOM)
1148	DRAINAGE MANHOLE	2.97	-2.03(NE)(4" PVC PIPE) -1.83(NE)(10" PVC PIPE) -5.53(BOTTOM)
1149	DRAINAGE MANHOLE	2.85	-5.15(BOTTOM) FULL OF WATER
1150	SANITARY SEWER MANHOLE	2.43	-2.15(N)(10") UNABLE TO DETERMINE TYPE -2.22(S)(10") UNABLE TO DETERMINE TYPE -1.76(E)(4") UNABLE TO DETERMINE TYPE -1.98(W)(10") UNABLE TO DETERMINE TYPE
1151	CATCH BASIN	1.66	-1.99(BOTTOM)
1152	CATCH BASIN	1.25	-1.22(BOTTOM) TOP OF DIRT
1153	DRAINAGE MANHOLE	1.83	-2.00(E)(12" CMP) -1.12(W)(15" CMP) -2.80(BOTTOM)
1154	CATCH BASIN	1.35	-2.26(W)(14" CMP) -3.95(BOTTOM)
1155	SANITARY SEWER MANHOLE	2.23	-1.18(S)(10") UNABLE TO DETERMINE TYPE

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1156	CATCH BASIN	1.38	-1.52(BOTTOM)
1157	CATCH BASIN	1.19	-1.01(N)(12" CONC. PIPE)
1158	CATCH BASIN	1.10	-5.15(N)(18" CONC. PIPE)
1159	DRAINAGE MANHOLE	2.66	(N) BAFFLE -3.84(BOTTOM)
1160	DRAINAGE MANHOLE	2.17	-0.89(N)(12") UNABLE TO DETERMINE TYPE -0.75(E)(12") UNABLE TO DETERMINE TYPE
1161	DRAINAGE MANHOLE	1.95	-3.54(N)(24" CMP) -0.97(E)(12") UNABLE TO DETERMINE TYPE -3.55(S)(18" CMP) -0.97(W)(12") UNABLE TO DETERMINE TYPE -3.520(BOTTOM)
1162	CATCH BASIN	1.52	-1.94(S)(8" CONC. PIPE) -2.18(E)(8" CONC. PIPE) -0.58(W)(12" CONC. PIPE) -2.18(BOTTOM)
1163	SANITARY SEWER MANHOLE	2.67	-1.77(NE)(8") UNABLE TO DETERMINE TYPE -1.85(SW)(12") UNABLE TO DETERMINE TYPE
1164	CATCH BASIN	1.21	-5.24(S)(24" CONC. PIPE) -6.49(BOTTOM)
1165	CATCH BASIN	1.49	-1.17(N)(12" CONC. PIPE) -1.32(S)(12" CONC. PIPE) -2.90(W)(12" CONC. PIPE) -2.97(BOTTOM)
1166	SANITARY SEWER MANHOLE	2.56	-2.12(N)(12") UNABLE TO DETERMINE TYPE -1.62(E)(6") UNABLE TO DETERMINE TYPE -1.54(S)(8") UNABLE TO DETERMINE TYPE
1167	SANITARY SEWER MANHOLE	2.495	-2.06(N)(12" PVC PIPE) -2.16(S)(12" PVC PIPE) -1.91(SW)(10" PVC PIPE)
1168	CATCH BASIN	1.65	-1.40(N)(12" CLAY) -1.40(S)(12" CLAY) -1.40(BOTTOM)
1169	SANITARY SEWER MANHOLE	1.37	-2.55(E)(10" PVC PIPE)
1170	SANITARY SEWER MANHOLE	2.35	-2.66(N)(12" PVC PIPE) -2.59(S)(12" PVC PIPE) -2.36(W)(10" PVC PIPE)
1171	CATCH BASIN	1.72	-5.89(E)(18") UNABLE TO DETERMINE TYPE -4.79(BOTTOM) BOTTOM ELEVATION ON TOP OF DIRT
1172	DRAINAGE MANHOLE	1.82	-6.18(W)(18") UNABLE TO DETERMINE TYPE -1.88(BOTTOM)
1173	CATCH BASIN	1.73	-0.77(BOTTOM) TOP OF DIRT
1174	CATCH BASIN	1.06	-2.55(BOTTOM)
1175	CATCH BASIN	0.60	-2.40(E)(15") UNABLE TO DETERMINE TYPE -3.00(BOTTOM) FULL OF DIRT
1176	DRAINAGE MANHOLE	1.75	-4.01(E)(15") UNABLE TO DETERMINE TYPE -4.26(W)(15") UNABLE TO DETERMINE TYPE -2.36 TOP OF PIPE RUN N TO S -4.66(BOTTOM)
1177	CATCH BASIN	1.02	-4.98(N)(24") UNABLE TO DETERMINE TYPE -5.08(S)(24") UNABLE TO DETERMINE TYPE -3.48(W)(14") UNABLE TO DETERMINE SIZE AND TYPE -4.08(BOTTOM)
1178	SANITARY SEWER MANHOLE	1.27	-3.48(E)(10" PVC PIPE) -2.98(W)(12" PVC PIPE)
1179	SANITARY SEWER MANHOLE	1.87	-3.23(N)(12" PVC PIPE) -3.13(W)(10" PVC PIPE) -3.08(S)(12" PVC PIPE)
1180	UNKNONKN MANHOLE	1.74	NO PIPES FOUND -4.96(BOTTOM)
1181	DRAINAGE MANHOLE	1.23	-2.17(N)(12" CLAY) -2.17(S)(12" CLAY) -2.17(BOTTOM)
1182	CATCH BASIN	1.11	0.36(E)(4" CLAY) 0.36(BOTTOM) FULL OF CONCRETE
1183	CATCH BASIN	3.23	0.70(S)(4" PVC PIPE) -0.62(S)(12" PVC PIPE) 0.98(S)(2" PVC PIPE) -0.72(E)(24" PLASTIC PIPE) -3.97(BOTTOM)
1184	DRAINAGE MANHOLE	2.89	0.19(N)(8" PVC PIPE) -0.01(E)(6" PVC PIPE) -1.26(BOTTOM)

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1185	CATCH BASIN	3.01	-1.19(W)(24" PLASTIC PIPE) -2.69(BOTTOM)
1186	DRAINAGE MANHOLE	2.84	-5.91(N)(42" CONC. PIPE) -5.86(W)(42" CONC. PIPE) -5.96(BOTTOM)
1187	CATCH BASIN	1.38	0.28(S)(6" PVC PIPE) 0.08(W)(6" PVC PIPE) -2.92(BOTTOM)
1188	SANITARY SEWER MANHOLE	1.71	-3.59(N)(12" PVC PIPE) -3.49(S)(12" PVC PIPE) -3.54(BOTTOM)
1189	CATCH BASIN	0.87	-2.33(N)(18" CONC. PIPE) -3.33(BOTTOM) FULL OF DIRT
1190	CATCH BASIN	0.92	-5.08(N)(36" CONC. PIPE) -6.08(BOTTOM) FULL OF DIRT
1194	DRAINAGE MANHOLE	2.37	-1.87(E) UNABLE TO DETERMINE SIZE AND TYPE -1.53(S) UNABLE TO DETERMINE SIZE AND TYPE -2.13(BOTTOM)
1195	CATCH BASIN	2.25	INACCESSIBLE AFTER TWO ATTEMPTS
1197	CATCH BASIN	3.22	-2.32(SW)(18" H.P.)(*) -4.65(N)(24" RCP)(*) -5.63(BOTTOM)(*)
1199	DRAINAGE MANHOLE	3.17	-7.43(N)(48" CONC. PIPE) -3.58(W)(48" CONC. PIPE) -10.09(BOTTOM)
1200	CATCH BASIN	2.58	-4.42(N)(24" RCP)(*) -4.41(S)(18" H.P.)(*) -4.97(BOTTOM)(*)
1201	DRAINAGE MANHOLE	3.30	-8.25(W)(60" CONC. PIPE) -9.25(BOTTOM)
1202	DRAINAGE MANHOLE	3.33	-8.17(E)(60" CONC. PIPE) -8.97(BOTTOM)
1204	DRAINAGE MANHOLE	3.08	-5.02(W)(48" CONC. PIPE) -5.13(E)(48" CONC. PIPE)(*) -5.37(BOTTOM)
1205	CATCH BASIN	2.77	-5.02(W)(48" CONC. PIPE) -8.22(E)(60")(*) -5.37(BOTTOM)
1206	CATCH BASIN	2.48	-5.48(N)(24" RCP)(*) -6.05(BOTTOM)(*)
1207	DRAINAGE MANHOLE	3.84	-8.61(E)(60" CONC. PIPE) -8.79(W)(60" CONC. PIPE) -5.38(S) RCP(*) -9.71(BOTTOM)
1208	CATCH BASIN	2.36	-1.24(NW)(12" PVC PIPE) -1.29(S)(12" PVC PIPE) -1.84(BOTTOM)
1210	DRAINAGE MANHOLE	3.49	-2.66(N)(15" CONC. PIPE) -5.91(E)(60" CONC. PIPE) -5.91(W)(60" CONC. PIPE) -5.17(S)(24" RCP)(*) -7.11(BOTTOM)
1211	CATCH BASIN	0.75	-4.90(N)(24" CONC. PIPE) -6.95(BOTTOM)
1212	DRAINAGE MANHOLE	3.80	-5.60(N)(24" CONC. PIPE) -9.50(E)(48" CONC. PIPE) -4.80(S)(18" CONC. PIPE) -4.95(W)(60" CONC. PIPE) -10.95(BOTTOM)
1213	DRAINAGE MANHOLE	3.63	-4.95(E)(60" CONC. PIPE) -5.58(W)(60" CONC. PIPE) -6.38(BOTTOM)
1214	CATCH BASIN	1.38	-3.27(S)(14" CMP) -2.02(NE)(10" CLAY) -3.32(BOTTOM)
1215	SANITARY SEWER MANHOLE	2.69	-4.91(S)(24" CLAY) -4.86(N)(24" CLAY) -4.11(W)(15" IRON CAST)



NEIGHBORHOOD: WEST AVENUE
TITLE: TOPOGRAPHIC SURVEY



CITY MANAGER: JIMMY L. MORALES
PUBLIC WORKS DIRECTOR: ERIC T. CARPENTER, P.E.
CITY ENGINEER: BRUCE A. MOWRY, Ph.D., P.E.

ENGINEER OF RECORD: Z.C.P.
DESIGN ENGINEER: M.C.H., K.B., Z.C.P.
DRAWN BY: M.C.H., K.B., Z.C.P.
CHECKER: Z.C.P.
SCALE: 1" = 20' (AT 22"x34")

THIS DOCUMENT CONSISTS OF 32 SHEETS AND EACH SHEET SHALL NOT BE CONSIDERED FULL, VALID AND COMPLETE UNLESS ATTACHED TO THE OTHERS.

NO.	DATE	REVISION
5		
4		
3		
2		
1	10/10/2017	REVIEW COMMENT (LONGITUDE SURVEYORS)

NOT A FIELD BOUNDARY SURVEY
File Path: R:\Projects\2015\15400182A City of Miami Beach\001 West Ave\Survey\dwg
File Name: SM-2017(West Avenue).dwg
Survey Reference:
Field Book: AS NOTED Page: AS NOTED Work Order: N/A
Date: 05/10/2017 Sheet: 4 of 32 Drawing: G-04

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1217	DRAINAGE MANHOLE	3.88	-7.37(N) UNABLE TO DETERMINE TYPE -10.12(E) UNABLE TO DETERMINE TYPE -6.52(S) UNABLE TO DETERMINE SIZE AND TYPE -9.77(W) (6" CONC. PIPE) NO PIPES FOUND -10.52(BOTTOM)
1218	DRAINAGE MANHOLE	3.57	-1.69(N)(15" CONC. PIPE) -4.17(S)(24" RCP)(*) -7.79(E)(48" RCP)(*) -7.79(W)(48" RCP)(*) -8.29(BOTTOM)
1219	DRAINAGE MANHOLE	3.67	-3.28(N)(12" PVC PIPE) -9.19(E)(48" RCP)(*) -3.46(S)(15" CONC. PIPE) -7.23(W)(48" RCP)(*) -9.34(BOTTOM)
1220	SANITARY SEWER MANHOLE	4.11	-3.99(N)(12" PVC PIPE) -4.23(E)(12" PVC PIPE) -3.94(S)(12" PVC PIPE) -0.69(W)(12" PVC PIPE)
1221	DRAINAGE MANHOLE	2.79	-7.58(E)(48" RCP)(*) -9.36(W)(48" RCP)(*) -10.48(BOTTOM)(*)
1222	DRAINAGE MANHOLE	1.15	-5.66(S)(24" CONC. PIPE) -7.20(E)(48") UNABLE TO DETERMINE TYPE -7.98(W)(48" CONC. PIPE) -10.66(BOTTOM)
1223	DRAINAGE MANHOLE	1.65	-7.37(N)(36" CONC. PIPE) -4.95(E)(36" CONC. PIPE) -6.60(W)(48") UNABLE TO DETERMINE TYPE -9.15(BOTTOM)
1224	CATCH BASIN	3.15	-1.35(E)(24" CONC. PIPE) -2.65(BOTTOM)
1225	DRAINAGE MANHOLE	3.56	INACCESSIBLE AFTER TWO ATTEMPTS
1226	CATCH BASIN	2.82	-1.03(S)(15" CONC. PIPE) -0.28(W)(24" CONC. PIPE) -2.04(NE)(12" PVC PIPE) -2.98(BOTTOM)
1227	DRAINAGE MANHOLE	3.71	-7.56(E)(48" CONC. PIPE) -14.39(W)(48" CONC. PIPE) -16.29(BOTTOM)
1228	DRAINAGE MANHOLE	1.67	FULL OF DIRT
1229	DRAINAGE MANHOLE	1.80	-9.80(E)(36" CONC. PIPE) -7.20(W)(48" CONC. PIPE) -12.20(BOTTOM)
1230	CATCH BASIN	2.52	-1.24(N)(12" PVC PIPE) -1.34(SW)(12" PVC PIPE) -1.99
1231	CATCH BASIN	2.60	-1.40(S)(14" CONC. PIPE) -2.45(BOTTOM)
1232	CATCH BASIN	0.72	-9.78(S)(18") UNABLE TO DETERMINE TYPE -8.78(BOTTOM)
1233	DRAINAGE MANHOLE	1.21	-4.20(N)(18" PLASTIC PIPE) -1.50(W)(12" IRON PIPE) -4.60(BOTTOM)
1234	CATCH BASIN	1.08	-1.92(W)(18" PLASTIC PIPE) -3.92(BOTTOM)
1235	CATCH BASIN	0.98	-0.67(E)(12" IRON PIPE) -0.72(E)(12" IRON PIPE) -0.77(BOTTOM)
1236	CATCH BASIN	1.04	-6.56(N)(24" CONC. PIPE) -3.96(S)(24" CONC. PIPE) -9.96(BOTTOM)
1237	CATCH BASIN	0.90	-5.02(S) UNABLE TO DETERMINE TYPE -10.50(BOTTOM)
1238	SANITARY SEWER MANHOLE	1.71	-4.34(N)(12" PVC PIPE) -4.44(S)(12" PVC PIPE) -0.76(W)(*)
1239	SANITARY SEWER MANHOLE	3.75	-0.15(NE)(8" PVC PIPE) -0.20(W)(8" PVC PIPE)
1240	SANITARY SEWER MANHOLE	2.37	-1.23(NE)(8" PVC PIPE) -0.28(SW)(8" PVC PIPE)
1241	SANITARY SEWER MANHOLE	1.99	-2.51(N)(12" PVC PIPE) -2.70(S)(12" PVC PIPE) -2.41(W)(12" CONC. PIPE)
1242	DRAINAGE MANHOLE	2.18	NOT ACCESSIBLE FULL OF DIRT

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1243	CATCH BASIN	1.21	-1.79(E)(6") UNABLE TO DETERMINE TYPE -1.94(BOTTOM)
1244	CATCH BASIN	1.37	-1.63(BOTTOM)
1245	CATCH BASIN	1.48	-0.43(W)(8") UNABLE TO DETERMINE TYPE
1246	CATCH BASIN	1.46	-0.39(E)(6" IRON PIPE)
1247	SANITARY SEWER MANHOLE	1.69	-1.45(N)(12" PVC PIPE) -1.41(SW)(8" PVC PIPE)
1248	CATCH BASIN	1.33	-3.05(N)(18" PVC PIPE) -5.37(BOTTOM)
1249	CATCH BASIN	1.26	-1.09(N)(12") UNABLE TO DETERMINE TYPE -3.39(BOTTOM)
1250	SANITARY SEWER MANHOLE	1.76	-1.25(S)(12" PVC PIPE) -1.19(E)(12" PVC PIPE)
1251	SANITARY SEWER MANHOLE	1.67	-1.69(E)(12" PVC PIPE) -1.54(S)(18" PVC PIPE) -1.59(W)(12" PVC PIPE)
1252	SANITARY SEWER MANHOLE	1.93	-0.92(N)(10" PVC PIPE) -3.02(E)(12" PVC PIPE) -3.02(W)(12" PVC PIPE)
1253	DRAINAGE MANHOLE	1.75	-2.73(S)(18" PVC PIPE) -4.06(W)(18" PVC PIPE) -4.66(BOTTOM)
1254	SANITARY SEWER MANHOLE	2.20	-2.35(N)(12" PVC PIPE) -2.50(S)(12" PVC PIPE) -2.40(W)(12" PVC PIPE)
1255	DRAINAGE MANHOLE	1.82	-4.37(N)(24" PVC PIPE) -4.20(S)(18" PVC PIPE) -4.19(E)(18" PVC PIPE) -4.78(BOTTOM)
1256	CATCH BASIN	1.47	-1.18(NE)(12") UNABLE TO DETERMINE TYPE -1.08(S)(12" CMP) -1.13(BOTTOM)
1257	DRAINAGE MANHOLE	4.36	INACCESSIBLE AFTER TWO ATTEMPTS
1258	CATCH BASIN	1.68	-5.02(BOTTOM) FULL OF WATER NO PIPES FOUND
1259	CATCH BASIN	1.72	-4.09(N)(36" CMP) -1.94(E)(15" CMP) -3.99(S)(36" CMP) -0.94(SW)(15" CMP) -4.19(BOTTOM)
1260	DRAINAGE MANHOLE	2.04	NOT ACCESSIBLE FULL OF DIRT
1261	CATCH BASIN	2.14	-1.56(NE)(12" CORRUGATED PIPE) -3.49(BOTTOM)
1262	CATCH BASIN	1.78	-0.12(E)(6" PVC PIPE) -0.12(E)(8" PVC PIPE) -0.52(W)(15" CMP) -0.72(BOTTOM)
1263	CATCH BASIN	1.65	-1.03(N)(12" IRON PIPE) -1.82(E)(15" PVC PIPE) -3.35(BOTTOM)
1264	CATCH BASIN	1.58	-4.58(N)(24" PVC PIPE) -4.52(S)(24" PVC PIPE) -1.52(W)(15" PVC PIPE) -4.70(BOTTOM)
1265	SANITARY SEWER MANHOLE	2.82	-1.48(N)(12" CLAY) -1.58(S)(12" CLAY)
1266	CATCH BASIN	0.98	-3.42(N)(15" PVC PIPE) -3.52(BOTTOM)
1267	DRAINAGE MANHOLE	1.49	-3.76(N)(15" PVC PIPE) -4.11(E)(24") UNABLE TO DETERMINE TYPE -4.01(S)(15" PVC PIPE) -5.71(BOTTOM)
1268	CATCH BASIN	1.02	-2.54(S)(15" PVC PIPE) -3.29(BOTTOM)
1269	CATCH BASIN	2.15	INACCESSIBLE AFTER TWO ATTEMPTS
1270	DRAINAGE MANHOLE	2.25	INACCESSIBLE AFTER TWO ATTEMPTS

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1271	CATCH BASIN	1.80	-2.61(N)(12" CONC. PIPE) -3.01(BOTTOM)
1272	CATCH BASIN	1.58	-2.08(S)(12" CONC. PIPE) -2.63(W)(18" CORRUGATE PIPE) -3.13(BOTTOM)
1273	DRAINAGE MANHOLE	2.04	-8.51(E)(32" CORRUGATED PIPE) -8.13(S)(36" CONC. PIPE) -9.16(BOTTOM)
1274	DRAINAGE MANHOLE	1.98	-5.52(N)(32" CORRUGATE PIPE) -3.22(E)(18" CORRUGATE PIPE) -5.52(S)(24" CORRUGATED PIPE) -8.62(W)(32" CORRUGATED PIPE) -9.02(BOTTOM)
1275	CATCH BASIN	2.05	-0.85(E)(6" PVC PIPE) -1.15(W)(15" CMP) -1.25(BOTTOM)
1276	SANITARY SEWER MANHOLE	3.01	-1.59(N)(12" CMP) -1.29(E)(15" CMP) -0.39 TOP OF PIPE RUN E TO W
1277	CATCH BASIN	2.00	-3.75(N)(36" CMP) -1.50(SE)(15" CMP) -4.00(S)(36" CMP) -4.05(BOTTOM) FULL OF DEBRIS
1278	CATCH BASIN	1.70	-0.80(N)(15" CORRUGATE PIPE) -2.30(BOTTOM)
1279	DRAINAGE MANHOLE	1.89	-5.36(N)(32" CONC. PIPE) -1.56(E)(15" CORRUGATE PIPE) -4.79(S)(32" CORRUGATED PIPE) -1.51(W)(15" CORRUGATED PIPE) -6.01(BOTTOM)
1280	CATCH BASIN	1.67	-0.94(W)(15" CORRUGATE PIPE)
1281	SANITARY SEWER MANHOLE	2.83	-1.04(N)(12" CLAY) -1.05(S)(12" CLAY) -1.01(W)(12" CLAY)
1282	CATCH BASIN	2.37	0.37(E)(6" PVC PIPE) 0.07(BOTTOM)
1283	CATCH BASIN	1.88	-2.12(N)(12") UNABLE TO DETERMINE TYPE -2.42(BOTTOM) BOTTOM ELEVATION ON TOP OF DIRT
1284	CATCH BASIN	2.13	-1.82(N)(12") UNABLE TO DETERMINE TYPE -1.82(S)(12") UNABLE TO DETERMINE TYPE -2.67(BOTTOM) TOP OF DIRT
1285	CATCH BASIN	2.30	0.40(E)(6" PVC PIPE) 0.40(E)(8" PVC PIPE) 0.00(W)(15" CMP) -0.20(BOTTOM)
1286	CATCH BASIN	2.19	NO PIPES FOUND -0.11 WATER ELEVATION -0.91(BOTTOM) BOTTOM ELEVATION ON TOP OF DIRT
1287	SANITARY SEWER MANHOLE	2.67	-0.73(N)(10" CLAY) -0.83(E)(8" PVC PIPE) -0.88(W)(12" CLAY)
1288	DRAINAGE MANHOLE	3.80	-1.60(NW)(15" PLASTIC PIPE) -4.40(BOTTOM)
1289	CATCH BASIN	1.99	-3.84(N)(24" CMP) -1.28(E)(15" CMP) -3.91(S)(24" CMP) -4.01(BOTTOM)
1290	CATCH BASIN	1.73	-3.92(N)(18" CONC. PIPE) -5.57(W)(15" CONC. PIPE) 0.73(BOTTOM)
1291	DRAINAGE MANHOLE	2.34	-5.26(N)(32" CONC. PIPE) -5.81(E)(15" CONC. PIPE) -5.08(S)(36" CONC. PIPE) -5.96(BOTTOM)
1292	CATCH BASIN	1.79	-1.11(N)(15" CMP) -1.25(W)(15" CMP) -1.21(BOTTOM) FULL OF DIRT
1293	SANITARY SEWER MANHOLE	2.91	-1.30(N)(10" PVC PIPE) -1.30(NE)(10" PVC PIPE) -1.40(E)(12" CONC. PIPE) -1.30(S)(10" PVC PIPE) -1.30(W)(10" PVC PIPE)

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1294	CATCH BASIN	1.89	-6.36(N)(24" CONC. PIPE) -5.41(BOTTOM)
1295	SANITARY SEWER MANHOLE	2.64	-1.71(E)(12" CONC. PIPE) -1.61(W)(12" CONC. PIPE)
1296	SANITARY SEWER MANHOLE	2.65	-2.60(N)(12" CONC. PIPE) -2.75(E)(12" CONC. PIPE) -2.25(W)(12" CONC. PIPE)
1297	CATCH BASIN	1.53	-4.32(S)(18" CONC. PIPE) -4.57(BOTTOM)
1298	SANITARY SEWER MANHOLE	2.65	-2.81(N)(12" PVC PIPE) -3.06(E)(15" PVC PIPE) -3.06(S)(15" PVC PIPE) -2.86(W)(15" PVC PIPE)
1299	SANITARY SEWER MANHOLE	2.57	-3.53(N)(18" CONC. PIPE) -3.63(E)(18" CONC. PIPE) -2.68(S)(12" CONC. PIPE)
1300	SANITARY SEWER MANHOLE	2.63	-3.72(N)(24" CONC. PIPE) -3.55(E)(12" CONC. PIPE) -3.97(S)(24" CONC. PIPE) -3.72(W)(18" CONC. PIPE)
1301	CATCH BASIN	1.90	-3.70(E)(15" CMP) -1.80(S)(15" CMP) -2.70(BOTTOM) FULL OF DIRT
1302	CATCH BASIN	1.74	-0.71(N)(12" CONC. PIPE) -2.51(E)(12" CONC. PIPE) -1.56(S)(12" CONC. PIPE) -0.86(W)(18" CONC. PIPE) -2.56(BOTTOM) FULL OF DIRT
1303	CATCH BASIN	2.05	-6.65(S)(24" CONC. PIPE) -2.15(W)(12" CONC. PIPE) -8.15(BOTTOM)
1304	DRAINAGE MANHOLE	3.98	-4.12(BOTTOM)
1305	CATCH BASIN	1.65	-0.51(S)(12" RCP)
1306	DRAINAGE MANHOLE	1.95	-5.20(N)(24" PVC PIPE) -2.55(E)(15" PVC PIPE) -5.35(S)(32" CONC. PIPE) -2.40(W)(15" PVC PIPE)
1307	CATCH BASIN	3.39	(W) BAFFLE -1.31(BOTTOM) BOTTOM ELEVATION ON TOP OF DIRT
1308	CATCH BASIN	1.66	-2.44(W)(15" CORRUGATED PIPE) -3.04(BOTTOM)
1309	CATCH BASIN	1.40	-1.95(E)(15" CORRUGATED PIPE) -2.40(BOTTOM) FULL OF WATER
1310	CATCH BASIN	2.15	-2.80(N)(24" CORRUGATED PIPE) -2.50(S)(24" CMP) -1.60(E)(15" CMP) -3.05(BOTTOM)
1311	CATCH BASIN	1.60	INACCESSIBLE AFTER TWO ATTEMPTS
1312	CATCH BASIN	1.74	0.54(N)(12" IRON PIPE)
1313	SANITARY SEWER MANHOLE	1.78	-0.80(N)(8" CLAY) -0.77(E)(8" PVC PIPE)
1314	SANITARY SEWER MANHOLE	1.97	-1.03(N)(8" CLAY) -1.13(S)(8" CLAY) -1.13(W)(8" CLAY)
1315	CATCH BASIN	1.83	-0.29(N)(12" IRON PIPE) -0.57(S)(12" IRON PIPE) -0.47(BOTTOM)
1316	CATCH BASIN	1.57	-3.67(N)(18" PVC PIPE) -3.20(W)(18" PVC PIPE) -3.80(BOTTOM)
1317	DRAINAGE MANHOLE	2.42	-4.38(N)(24" PVC PIPE) -4.30(S)(24" PVC PIPE) -3.44(E)(18" PVC PIPE) -7.48(BOTTOM)
1318	CATCH BASIN	2.11	-2.29(N)(15" CMP) -3.89(BOTTOM)
1319	CATCH BASIN	2.29	0.19(NW)(12" CONC. PIPE) -0.11(BOTTOM)

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1320	CATCH BASIN	1.61	-2.14(N)(15" PLASTIC PIPE) -3.19(BOTTOM)
1321	CATCH BASIN	1.32	-4.23(S)(18" PVC PIPE) -4.71(BOTTOM)
1322	SANITARY SEWER MANHOLE	2.45	-4.00(N)(12" PVC PIPE) -3.80(S)(12" PVC PIPE)
1323	DRAINAGE MANHOLE	2.33	-1.27(NW)(15" CONC. PIPE) -1.42(S)(12" CONC. PIPE) -1.31(E)(15" CONC. PIPE) -1.47(BOTTOM)
1324	DRAINAGE MANHOLE	2.65	-3.95(N)(36" CMP) -1.89(E)(15" CMP) -4.00(S)(36" CMP) -2.40(W)(15" CMP) -4.05(BOTTOM)
1325	CATCH BASIN	2.19	-1.41(E)(15" CMP) -1.36(S)(15" CMP) -1.71(BOTTOM)
1326	DRAINAGE MANHOLE	2.13	-0.77(N)(12" PVC PIPE) -2.12(E)(15" PLASTIC PIPE) -0.97(S)(12" PVC PIPE) -1.22(W)(18") UNABLE TO DETERMINE TYPE -1.97(BOTTOM)
1327	DRAINAGE MANHOLE	1.53	-2.82(N)(15" PLASTIC PIPE) -2.57(E)(12" PLASTIC PIPE) -2.57(S)(15" PLASTIC PIPE) -1.57(W)(15" PLASTIC PIPE) -3.77(BOTTOM)
1328	CATCH BASIN	1.59	-1.82(W)(12" PLASTIC PIPE) -2.77(BOTTOM)
1329	CATCH BASIN	2.11	-1.29(BOTTOM)
1330	CATCH BASIN	1.01	-2.49(S)(15" PLASTIC PIPE) -2.49(BOTTOM)
1331	CATCH BASIN	2.07	-0.43(S)(15" RCP) -0.63(BOTTOM)
1332	DRAINAGE MANHOLE	2.63	1.03(N)(6" PVC PIPE) -4.02(BOTTOM)
1333	SANITARY SEWER MANHOLE	1.61	-1.41(N)(8" PVC PIPE) -1.48(S)(8" PVC PIPE) -1.45(E)(8" PVC PIPE)
1334	CATCH BASIN	2.15	-5.35(BOTTOM) FULL OF WATER BAFFLE TO THE NORTH
1335	DRAINAGE MANHOLE	1.73	-3.54(N)(18" PVC PIPE) -1.07(E)(12" PVC PIPE) -1.09(E)(12" PVC PIPE) -3.94(BOTTOM)
1336	DRAINAGE MANHOLE	1.63	-3.87(N)(18" PVC PIPE) -2.42(S)(24" PVC PIPE) -2.79(E)(12" PVC PIPE) -2.54(W)(12" PVC PIPE) -2.62(W)(12" PVC PIPE) -7.630(BOTTOM)
1337	DRAINAGE MANHOLE	1.74	-3.06(W)(12" PVC PIPE) -3.48(BOTTOM)
1338	CATCH BASIN	1.45	-1.40(N)(8") UNABLE TO DETERMINE TYPE
1339	CATCH BASIN	2.48	1.45(S)(2" PVC PIPE) -4.62(BOTTOM) FULL OF WATER AND BAFFLE
1340	DRAINAGE MANHOLE	1.71	-2.92(N)(18" PVC PIPE) -3.61(S)(18" PVC PIPE) -5.49(E)(12" PVC PIPE) -5.66(BOTTOM)
1341	CATCH BASIN	1.27	-5.28(W)(12" PVC PIPE) -6.36(BOTTOM)
1342	CATCH BASIN	1.86	-3.24(N)(12" PVC PIPE) -3.59(BOTTOM)
1343	DRAINAGE MANHOLE	2.16	-1.39(N)(15" CONC. PIPE)
1344	DRAINAGE MANHOLE	1.88	-3.02(S)(18" PVC PIPE) -3.61(BOTTOM)
1345	DRAINAGE MANHOLE	2.10	-0.30(N)(10" CLAY) -0.30(S)(10" CONC. PIPE) -0.30(BOTTOM)
1346	CATCH BASIN	1.53	-5.62(N)(24" CONC. PIPE) -4.72(BOTTOM)

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1347	SANITARY SEWER MANHOLE	1.89	-1.52(N)(8" PVC PIPE) -1.39(S)(8" PVC PIPE) -1.62(E)(10" PVC PIPE)
1348	DRAINAGE MANHOLE	4.43	-0.02(N)(18" PVC PIPE) -2.27(BOTTOM)
1349	DRAINAGE MANHOLE	1.78	-5.84(N)(36" IRON PIPE) -5.83(E)(36" IRON PIPE) -5.87(BOTTOM)
1350	DRAINAGE MANHOLE	1.84	-3.26(S)(18") UNABLE TO DETERMINE TYPE -5.97(S)(36" IRON PIPE) -5.84(W)(36" IRON PIPE) -7.97(BOTTOM)
1351	DRAINAGE MANHOLE	1.82	-0.13(N)(8" PVC PIPE) -5.78(E)(36" IRON PIPE) -5.86(W)(36" IRON PIPE) -5.82(BOTTOM)
1352	DRAINAGE MANHOLE	4.36	INACCESSIBLE AFTER TWO ATTEMPTS
1353	SANITARY SEWER MANHOLE	2.98	-1.97(N) UNABLE TO DETERMINE SIZE AND TYPE -1.97(E) UNABLE TO DETERMINE SIZE AND TYPE -1.97(S) UNABLE TO DETERMINE SIZE AND TYPE -1.97(W) UNABLE TO DETERMINE SIZE AND TYPE
1354	DRAINAGE MANHOLE	2.87	-7.38(N)(24") UNABLE TO DETERMINE TYPE -7.38(BOTTOM)
1355	DRAINAGE MANHOLE	2.43	-5.97(E)(36" CONC. PIPE) -0.27(S)(10" CLAY) -5.97(W)(36" CONC. PIPE) -5.97(BOTTOM)
1356	DRAINAGE MANHOLE	2.65	-4.15(E)(24") UNABLE TO DETERMINE TYPE -7.50(S)(24") UNABLE TO DETERMINE TYPE -7.50(BOTTOM)
1357	SANITARY SEWER MANHOLE	2.84	-2.91(N)(18" PVC PIPE) -2.21(S)(18" PVC PIPE) -2.21(W) UNABLE TO DETERMINE SIZE AND TYPE
1358	DRAINAGE MANHOLE	2.76	-5.64(E)(36" CONC. PIPE) -5.14(S)(32" CONC. PIPE) -5.59(W)(32" CONC. PIPE) -5.64(BOTTOM)
1359	DRAINAGE MANHOLE	2.32	-1.99(N)(12" CONC. PIPE) -5.69(E)(36" CONC. PIPE) -0.69(S)(12" CONC. PIPE) -5.84(W)(36" CONC. PIPE) -4.69(BOTTOM)
1360	DRAINAGE MANHOLE	1.35	-0.20(N)(24" PLASTIC PIPE) -4.47(E)(24" PLASTIC PIPE) -4.60(W)(24" PLASTIC PIPE) -5.45(BOTTOM)
1361	DRAINAGE MANHOLE	2.85	-1.32(N)(15" CMP) -5.75(E)(36" CONC. PIPE) -3.65(S)(15" CONC. PIPE) -5.73(W)(36" CONC. PIPE) -4.85(BOTTOM)
1362	CATCH BASIN	1.23	-0.61(S)(8" PVC PIPE) -0.67(BOTTOM)
1363	SANITARY SEWER MANHOLE	3.26	-2.14(E)(10" PVC PIPE) -2.04(S)(10" PVC PIPE)
1364	CATCH BASIN	1.27	0.27(S)(CONC. PIPE) UNABLE TO DETERMINE SIZE 0.27(BOTTOM)
1365	DRAINAGE MANHOLE	2.17	-4.03(N)(24" CONC. PIPE) -4.58(E)(24" CONC. PIPE) -4.68(S)(24" CONC. PIPE) -4.53(BOTTOM)
1366	SANITARY SEWER MANHOLE	1.39	-1.51(E)(10" PVC PIPE) -1.41(W)(10" PVC PIPE)
1367	CATCH BASIN	1.19	-5.56(BOTTOM)
1368	CATCH BASIN	1.85	-1.00(N)(10" CONC. PIPE) -1.50(S)(12" CONC. PIPE) -1.55(BOTTOM)
1369	DRAINAGE MANHOLE	2.50	-3.50(N)(15" PLASTIC PIPE) -3.50(S)(15" PLASTIC PIPE) -4.80(W)(24" CONC. PIPE) -4.70(BOTTOM)
1370	CATCH BASIN	1.66	-1.85(S)(15" CMP) -1.85(BOTTOM)

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1371	SANITARY SEWER MANHOLE	1.55	-0.97(N)(8" PVC PIPE) -1.12(S)(8" PVC PIPE) -1.00(W)(8" PVC PIPE)
1372	CATCH BASIN	1.80	-3.90(N)(24" CONC. PIPE) -5.10(BOTTOM)
1373	DRAINAGE MANHOLE	2.19	-0.97(NW)(18" PVC PIPE) UNABLE TO REACH THE BOTTOM
1374	DRAINAGE MANHOLE	2.18	INACCESSIBLE AFTER TWO ATTEMPTS
1375	DRAINAGE MANHOLE	3.00	1.40(N)(12" PVC PIPE) -3.50(BOTTOM)
1376	DRAINAGE MANHOLE	2.26	INACCESSIBLE AFTER TWO ATTEMPTS
1377	CATCH BASIN	1.83	-0.77(N)(8" PVC PIPE) -0.17(E)(4") UNABLE TO DETERMINE SIZE -0.87(S)(8") UNABLE TO DETERMINE TYPE
1378	CATCH BASIN	2.03	1.88(BOTTOM)
1379	CATCH BASIN	2.07	(N) BAFFLE -4.93(BOTTOM) BOTTOM ELEVATION ON TOP OF DIRT
1380	CATCH BASIN	1.54	-1.36(NE)(10" CLAY) -1.46(BOTTOM)
1381	CATCH BASIN	2.33	(S) BAFFLE -4.58(BOTTOM) BOTTOM ELEVATION ON TOP OF DIRT
1382	CATCH BASIN	2.00	-0.30(S)(8") UNABLE TO DETERMINE TYPE
1383	CATCH BASIN	2.99	1.54(E)(4" PVC PIPE) 1.51(BOTTOM)
1384	CATCH BASIN	1.93	-0.07(BOTTOM)
1385	CATCH BASIN	2.63	-0.62(S)(15") UNABLE TO DETERMINE TYPE -2.62(BOTTOM) 1' WIDE TRENCH DRAIN
1386	CATCH BASIN	1.77	-1.63(BOTTOM)
1387	DRAINAGE MANHOLE	3.41	-4.14(E)(18") UNABLE TO DETERMINE TYPE -7.24(W)(18") UNABLE TO DETERMINE TYPE -7.29(BOTTOM) FULL OF WATER AND DIRT
1388	DRAINAGE MANHOLE	3.53	-7.28(E)(18") UNABLE TO DETERMINE TYPE -6.78(BOTTOM) FULL OF DIRT AND WATER
1389	DRAINAGE MANHOLE	1.44	0.14(N)(CONC. PIPE) UNABLE TO DETERMINE SIZE -3.51(E)(18") UNABLE TO DETERMINE TYPE -3.71(W)(18") UNABLE TO DETERMINE TYPE -4.06(BOTTOM)
1390	SANITARY SEWER MANHOLE	2.54	-1.26(E) UNABLE TO DETERMINE SIZE AND TYPE -1.21(S) UNABLE TO DETERMINE SIZE AND TYPE -1.21(W) UNABLE TO DETERMINE SIZE AND TYPE -1.26(BOTTOM) UNABLE TO DETERMINE SIZE AND TYPE
1391	DRAINAGE MANHOLE	1.22	0.02(N)(CONC. PIPE) UNABLE TO DETERMINE SIZE -3.73(W)(18") UNABLE TO DETERMINE TYPE -3.98(BOTTOM)
1392	CATCH BASIN	1.45	0.45(S)(CONC. PIPE) UNABLE TO DETERMINE SIZE
1393	CATCH BASIN	1.22	0.32(N) UNABLE TO DETERMINE SIZE AND TYPE
1394	SANITARY SEWER MANHOLE	1.76	-0.89(N)(10" PVC PIPE) -0.94(S)(10" PVC PIPE) -0.84(W)(10" PVC PIPE)
1395	CATCH BASIN	2.00	INACCESSIBLE AFTER TWO ATTEMPTS
1396	CATCH BASIN	2.74	1.99(W)(4" CORRUGATED PIPE) 1.79(BOTTOM)
1397	SANITARY SEWER MANHOLE	2.31	-2.79(N) UNABLE TO DETERMINE SIZE AND TYPE -2.97(S) UNABLE TO DETERMINE SIZE AND TYPE
1398	CATCH BASIN	1.47	-1.43(W)(6" CLAY) -4.38(BOTTOM)
1399	CATCH BASIN	1.69	-1.03(NE)(12" PVC PIPE) -0.11(E)(6" CLAY) -1.31(BOTTOM)
1400	DRAINAGE MANHOLE	1.98	-0.82(N)(CONC. PIPE) UNABLE TO DETERMINE SIZE -1.72(NW)(12" PVC PIPE) -5.82(S)(CONC. PIPE) UNABLE TO DETERMINE SIZE -1.62(SW)(12" PVC PIPE) -5.82(BOTTOM)

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1401	CATCH BASIN	1.70	-1.85(SE)(12" PVC PIPE) -2.70(BOTTOM)
1402	CATCH BASIN	1.53	0.53(BOTTOM)
1403	SANITARY SEWER MANHOLE	2.10	-0.31(E)(8" PVC PIPE) -0.46(S)(10" PVC PIPE)
1404	SANITARY SEWER MANHOLE	2.52	-1.03(W)(12") UNABLE TO DETERMINE TYPE
1405	CATCH BASIN	1.46	-0.74(W)(8" IRON PIPE) -1.14(BOTTOM)
1406	DRAINAGE MANHOLE	2.03	-3.37(E)(15" CLAY) -0.52(W)(6" CLAY) -3.47(BOTTOM)
1407	DRAINAGE MANHOLE	1.90	-1.22(SE)(10" CLAY) -2.15(W)(15" CLAY) -2.20(BOTTOM)
1408	CATCH BASIN	1.23	-0.27(NE)(10" CLAY)
1409	CATCH BASIN	1.74	-0.31(N)(12") UNABLE TO DETERMINE TYPE
1410	SANITARY SEWER MANHOLE	2.17	-1.43(N)(8" PVC PIPE) -0.43(S)(8" CLAY)
1411	CATCH BASIN	1.51	-2.44(N)(15" CORRUGATED PIPE) -4.99(BOTTOM)
1412	DRAINAGE MANHOLE	2.15	INACCESSIBLE AFTER TWO ATTEMPTS
1413	DRAINAGE MANHOLE	2.54	-0.91(N)(12" CONC. PIPE) -2.46(E)(18" CONC. PIPE) -5.71(S)(36" CONC. PIPE) -5.74(W)(36" CONC. PIPE) -5.76(BOTTOM)
1414	CATCH BASIN	1.50	-0.10(N)(10" CONC. PIPE) -0.05(S)(6" PVC PIPE) -0.25(BOTTOM)
1415	CATCH BASIN	1.72	-1.23(N)(12" CONC. PIPE) -0.28(SW)(16" CLAY) -1.28(BOTTOM)
1416	DRAINAGE MANHOLE	2.60	-0.40(N)(12" CONC. PIPE) -2.60(E)(18" CONC. PIPE) -2.60(W)(18" CONC. PIPE) -2.60(BOTTOM)
1417	DRAINAGE MANHOLE	1.61	-2.39(BOTTOM) 0.01(S)(10" CONC. PIPE) FULL OF DIRT
1418	DRAINAGE MANHOLE	2.16	-7.09(E)(18") UNABLE TO DETERMINE TYPE -3.14(W)(18") UNABLE TO DETERMINE TYPE -5.54(BOTTOM) FULL OF WATER AND DEBRIS
1419	CATCH BASIN	1.72	-1.73(NE)(15" PLASTIC PIPE) -6.73(W) UNABLE TO DETERMINE SIZE AND TYPE -4.38(BOTTOM)
1420	CATCH BASIN	2.02	-2.33(E)(24" CONC. PIPE) -3.98(BOTTOM) FULL OF DIRT
1421	DRAINAGE MANHOLE	3.15	-1.25(E)(24" CONC. PIPE) -2.40(W)(24" CONC. PIPE) -3.50(BOTTOM)
1422	DRAINAGE MANHOLE	2.03	-2.32(N)(12" CONC. PIPE) -2.27(E)(15" CONC. PIPE) -1.97(S)(15" CONC. PIPE) -2.62(W)(15" CONC. PIPE) -2.47(BOTTOM)
1423	SANITARY SEWER MANHOLE	2.16	-2.85(N) UNABLE TO DETERMINE SIZE AND TYPE -2.80(E) UNABLE TO DETERMINE SIZE AND TYPE -2.80(S) UNABLE TO DETERMINE SIZE AND TYPE -2.85(BOTTOM)
1424	SANITARY SEWER MANHOLE	2.36	-1.49(E)(10" PVC PIPE) -1.39(S)(10" CLAY)
1425	DRAINAGE MANHOLE	2.43	-2.43(N)(12") UNABLE TO DETERMINE TYPE -2.47(W)(15") UNABLE TO DETERMINE TYPE -5.07(BOTTOM)
1426	DRAINAGE MANHOLE	2.19	-2.38(E)(12") UNABLE TO DETERMINE TYPE -0.11(S)(12" CLAY) -5.31(BOTTOM)
1427	SANITARY SEWER MANHOLE	2.30	-1.75(N) UNABLE TO DETERMINE SIZE AND TYPE -1.80(E) UNABLE TO DETERMINE SIZE AND TYPE -1.70(W)(10" PVC PIPE)



NEIGHBORHOOD:

WEST AVENUE

TITLE:

TOPOGRAPHIC SURVEY



CITY MANAGER: JIMMY L. MORALES

PUBLIC WORKS DIRECTOR: ERIC T. CARPENTER, P.E.

CITY ENGINEER: BRUCE A. MOWRY, Ph.D., P.E.

ENGINEER OF RECORD:

DESIGN ENGINEER:

DRAWN BY: M.CH, K.B, Z.C.P

CHECKER: Z.C.P

SCALE: 1" = 20' (AT 22"x34")

THIS DOCUMENT CONSISTS OF 32 SHEETS AND EACH SHEET SHALL NOT BE CONSIDERED FULL, VALID AND COMPLETE UNLESS ATTACHED TO THE OTHERS.

NO.	DATE	REVISION
5		
4		
3		
2		
1	10/10/2017	REVIEW COMMENT (LONGITUDE SURVEYORS)

NOT A FIELD BOUNDARY SURVEY

File Path: R:\Projects\2015\15400182A City of Miami Beach\001 West Ave\Survey\dwg

File Name: SM-2017(West Avenue).dwg

Survey Reference:

Field Book: AS NOTED Page: AS NOTED Work Order: N/A

Date: 05/10/2017 Sheet: 6 of 32 Drawing: G-06

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1428	SANITARY SEWER MANHOLE	3.31	-3.14(S) UNABLE TO DETERMINE SIZE AND TYPE -3.04(W) UNABLE TO DETERMINE SIZE AND TYPE
1429	DRAINAGE MANHOLE	2.33	-0.61 TOP OF CAGE
1430	SANITARY SEWER MANHOLE	2.46	-1.74(N)(10" CLAY) -1.84(E)(12") UNABLE TO DETERMINE TYPE -1.79(W)(12") UNABLE TO DETERMINE TYPE
1431	DRAINAGE MANHOLE	2.20	-6.60(BOTTOM)
1432	SANITARY SEWER MANHOLE	2.26	-2.15(E) UNABLE TO DETERMINE SIZE AND TYPE -2.05(W)(PVC PIPE) UNABLE TO DETERMINE SIZE
1433	SANITARY SEWER MANHOLE	2.41	-2.99(N) UNABLE TO DETERMINE SIZE AND TYPE -2.99(S) UNABLE TO DETERMINE SIZE AND TYPE
1434	SANITARY SEWER MANHOLE	2.32	-2.43(N)(12" CONC. PIPE) -2.98(S)(12" CONC. PIPE) -1.18 TOP OF PIPE RUN N TO S
1435	SANITARY SEWER MANHOLE	2.73	-2.52(N)(10" PVC PIPE) -2.57(E)(12" PVC PIPE) -2.57(W)(12" PVC PIPE)
1436	DRAINAGE MANHOLE	2.11	-2.55(BOTTOM)
1437	SANITARY SEWER MANHOLE	2.34	-3.11(N) UNABLE TO DETERMINE SIZE AND TYPE -3.11(S) UNABLE TO DETERMINE SIZE AND TYPE -2.81(W) UNABLE TO DETERMINE SIZE AND TYPE
1438	CATCH BASIN	1.46	-1.14(SW)(15" PLASTIC PIPE) -1.34(BOTTOM)
1439	DRAINAGE MANHOLE	2.04	-1.96(BOTTOM)
1440	CATCH BASIN	1.70	-1.55(N)(12" CONC. PIPE) -1.80(S)(12" CONC. PIPE) -1.80(BOTTOM)
1441	DRAINAGE MANHOLE	1.87	-0.88(NE)(12" CONC. PIPE) -1.18(W)(12") UNABLE TO DETERMINE TYPE -1.18(BOTTOM)
1442	DRAINAGE MANHOLE	1.71	-0.59(S)(12" CONC. PIPE) -2.59(BOTTOM)
1443	DRAINAGE MANHOLE	1.78	-0.67(E)(12" CLAY) -0.77(S)(12" CONC. PIPE) -0.77(BOTTOM)
1444	CATCH BASIN	1.60	-1.90(BOTTOM)
1445	DRAINAGE MANHOLE	2.48	-5.62(N)(48" CONC. PIPE) -6.37(BOTTOM)
1446	CATCH BASIN	1.49	-0.71(SW)(12" CONC. PIPE) -0.51(BOTTOM)
1447	SANITARY SEWER MANHOLE	3.21	-2.19(N)(10" PVC PIPE) -2.39(S)(10" PVC PIPE) -1.29(W)(10" PVC PIPE)
1448	CATCH BASIN	1.77	-0.68(N)(18" PVC PIPE) -1.23(BOTTOM)
1449	CATCH BASIN	1.82	-0.50(S)(10") UNABLE TO DETERMINE TYPE -0.48(BOTTOM)
1450	CATCH BASIN	1.40	-2.00(E)(12" CLAY) -1.00(BOTTOM)
1451	SANITARY SEWER MANHOLE	2.28	-2.83(N)(15") UNABLE TO DETERMINE TYPE -2.83(S)(15") UNABLE TO DETERMINE TYPE
1452	SANITARY SEWER MANHOLE	2.23	-1.22(N)(10" PVC PIPE) -1.32(S)(10" CLAY) -1.07(W)(8" CLAY)
1453	CATCH BASIN	1.53	-4.62(BOTTOM) 0.33 TOP OF VERTICAL PIPE 6" DIAMETER
1454	DRAINAGE MANHOLE	1.93	-0.52(N)(18" PVC PIPE) -0.52(S)(18" PVC PIPE) -0.82(BOTTOM)

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1455	DRAINAGE MANHOLE	3.19	-1.06(NE)(18" PVC PIPE) -1.16(S)(18" PVC PIPE) -1.61(BOTTOM)
1456	DRAINAGE MANHOLE	2.24	1.74 TO TOP OF 1" PIPE 1.24 TOP OF DIRT
1457	CATCH BASIN	2.97	-3.89(E)(18" PVC PIPE) -1.14(SW)(18" PVC PIPE) -4.49(BOTTOM)
1458	DRAINAGE MANHOLE	1.91	NO PIPES FOUND -5.09(BOTTOM)
1459	DRAINAGE MANHOLE	2.11	-1.79(N)(18" PVC PIPE) -0.49(S)(18" PVC PIPE) -2.54(S)(18" PVC PIPE) -2.59(W)(18" PVC PIPE) -3.29(BOTTOM)
1460	CATCH BASIN	2.95	-5.75(N)(48" CONC. PIPE) -2.40(E)(18" PVC PIPE) -6.05(S)(48" CONC. PIPE) -4.05(W)(18" PVC PIPE) -6.85(BOTTOM)
1461	SANITARY SEWER MANHOLE	1.95	0.25 WATER ELEVATION SLOTTED COVER
1462	CATCH BASIN	1.39	-1.11(W)(12" PVC PIPE) -0.11(BOTTOM) FULL OF DIRT
1463	SANITARY SEWER MANHOLE	2.12	-1.19(N)(10" PVC PIPE) -1.39(S)(10" PVC PIPE) -1.06(W)(8" PVC PIPE) -1.29(BOTTOM)
1464	DRAINAGE MANHOLE	2.14	-2.91(N)(15") UNABLE TO DETERMINE TYPE -2.91(S)(15") UNABLE TO DETERMINE TYPE
1465	SANITARY SEWER MANHOLE	3.50	-1.40(N)(10" PVC PIPE) -1.50(S)(10" PVC PIPE)
1466	CATCH BASIN	1.32	INACCESSIBLE AFTER TWO ATTEMPTS
1467	SANITARY SEWER MANHOLE	2.16	-2.54(N)(15") UNABLE TO DETERMINE TYPE -2.54(S)(15") UNABLE TO DETERMINE TYPE
1468	SANITARY SEWER MANHOLE	1.85	-1.10(S)(10" PVC PIPE)
1469	CATCH BASIN	1.36	-0.14(BOTTOM)
1470	SANITARY SEWER MANHOLE	3.45	-0.45(NE)(10" PVC PIPE) -0.35(S)(10" PVC PIPE) -0.25(W)(10" PVC PIPE)
1471	CATCH BASIN	2.55	-6.35(S)(48" CONC. PIPE) -8.35(W)(48" CONC. PIPE) -8.75(BOTTOM)
1472	CATCH BASIN	3.00	-8.30(NW)(48" CONC. PIPE) -8.20(E)(48" CONC. PIPE) -9.00(BOTTOM)
1473	CATCH BASIN	1.17	-1.55(N)(8") UNABLE TO DETERMINE TYPE -0.66(W)(8") UNABLE TO DETERMINE TYPE
1474	SANITARY SEWER MANHOLE	2.62	-2.78(N)(15") UNABLE TO DETERMINE TYPE -2.78(S)(15")
1475	CATCH BASIN	2.86	-6.19(N)(24" CONC. PIPE) -7.14(BOTTOM)
1476	CATCH BASIN	5.90	-5.10(NE)(18" CONC. PIPE) -6.52(BOTTOM)
1477	SANITARY SEWER MANHOLE	3.87	-2.03(E)(12" PVC PIPE) -0.78(SW)(12" PVC PIPE)
1478	SANITARY SEWER MANHOLE	3.12	-2.73(N) UNABLE TO DETERMINE SIZE AND TYPE -2.53(E)(12" PVC PIPE) -2.63(S)(12" PVC PIPE) -2.83(W)(12" PVC PIPE)
1479	CATCH BASIN	3.15	-7.45(E)(48" CONC. PIPE) -7.65(W)(48" CONC. PIPE) -8.05(BOTTOM)
1481	CATCH BASIN	4.39	FULL OF DIRT

UTILITIES TABLE			
POINT #	TYPE	RIM ELEVATION	INVERT(S) INFORMATION
1482	DRAINAGE MANHOLE	5.10	-4.25(W)(18") UNABLE TO DETERMINE TYPE -3.60(BOTTOM)
1483	DRAINAGE MANHOLE	2.30	-5.60(N)(24" CONC. PIPE) -7.30(E)(48" CONC. PIPE) -4.80(S)(12" PVC PIPE) -7.48(W)(48" CONC. PIPE) -7.70(BOTTOM)
1484	CATCH BASIN	5.12	-8.48(N)(60" CORRUGATE PIPE) -7.88(E)(48" CONC. PIPE) -8.28(SE)(48" CONC. PIPE) -5.78(SW)(18" PVC PIPE) -8.88(BOTTOM)
1485	CATCH BASIN	3.17	-6.58(S)(24" CONC. PIPE) -7.33(E)(36" CONC. PIPE) -6.83(W)(48" CONC. PIPE) -3.63(S)(12" CONC. PIPE) -8.03(BOTTOM)
1486	SANITARY SEWER MANHOLE	7.40	-7.10(BOTTOM)
1487	DRAINAGE MANHOLE	5.55	-7.85(NW)(72" CONC. PIPE) -10.10(SE)(72" CONC. PIPE) -10.45(BOTTOM)
1488	DRAINAGE MANHOLE	3.16	-0.74(S)(12" CORRUGATE METAL PIPE) -3.66(BOTTOM)
1489	CATCH BASIN	3.16	-0.96(N)(12" CORRUGATE METAL PIPE) -4.24(S)(24" CORRUGATE METAL PIPE) -4.25(BOTTOM)
1490	CATCH BASIN	3.19	-4.26(N)(24" CORRUGATE METAL PIPE) -0.91(S)(12" CORRUGATE METAL PIPE) -4.26(BOTTOM)
1491	SANITARY SEWER MANHOLE	2.29	-5.06(N)(24" CLAY) -5.03(S)(24" CONC. PIPE) -5.26(E)(24" CLAY) -3.61(W)(12" IRON CAST)
1492	DRAINAGE MANHOLE	2.25	-4.19(W)(24" CONC. PIPE) -4.45(E)(24" CONC. PIPE) -1.15(12" IRON CAST) -2.95 TOP OF PIPE RUN NORTH SOUTH
1493	CATCH BASIN	2.03	-1.57(N)(5") UNABLE TO DETERMINE TYPE -3.47(E)(1") UNABLE TO DETERMINE TYPE -3.37(W)(1") UNABLE TO DETERMINE TYPE -4.37(BOTTOM) FULL OF DIRT
1494	DRAINAGE MANHOLE	2.67	-3.83(BOTTOM) FULL OF WATER BAFFLE TO THE NORTH



NEIGHBORHOOD: WEST AVENUE
TITLE: TOPOGRAPHIC SURVEY



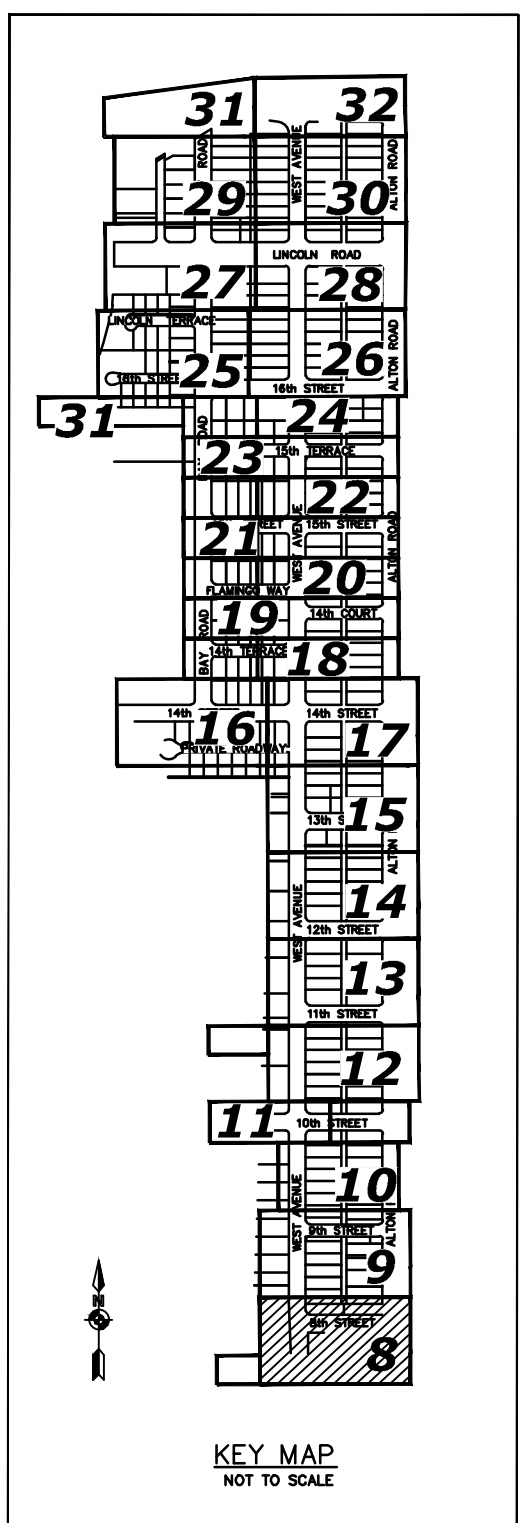
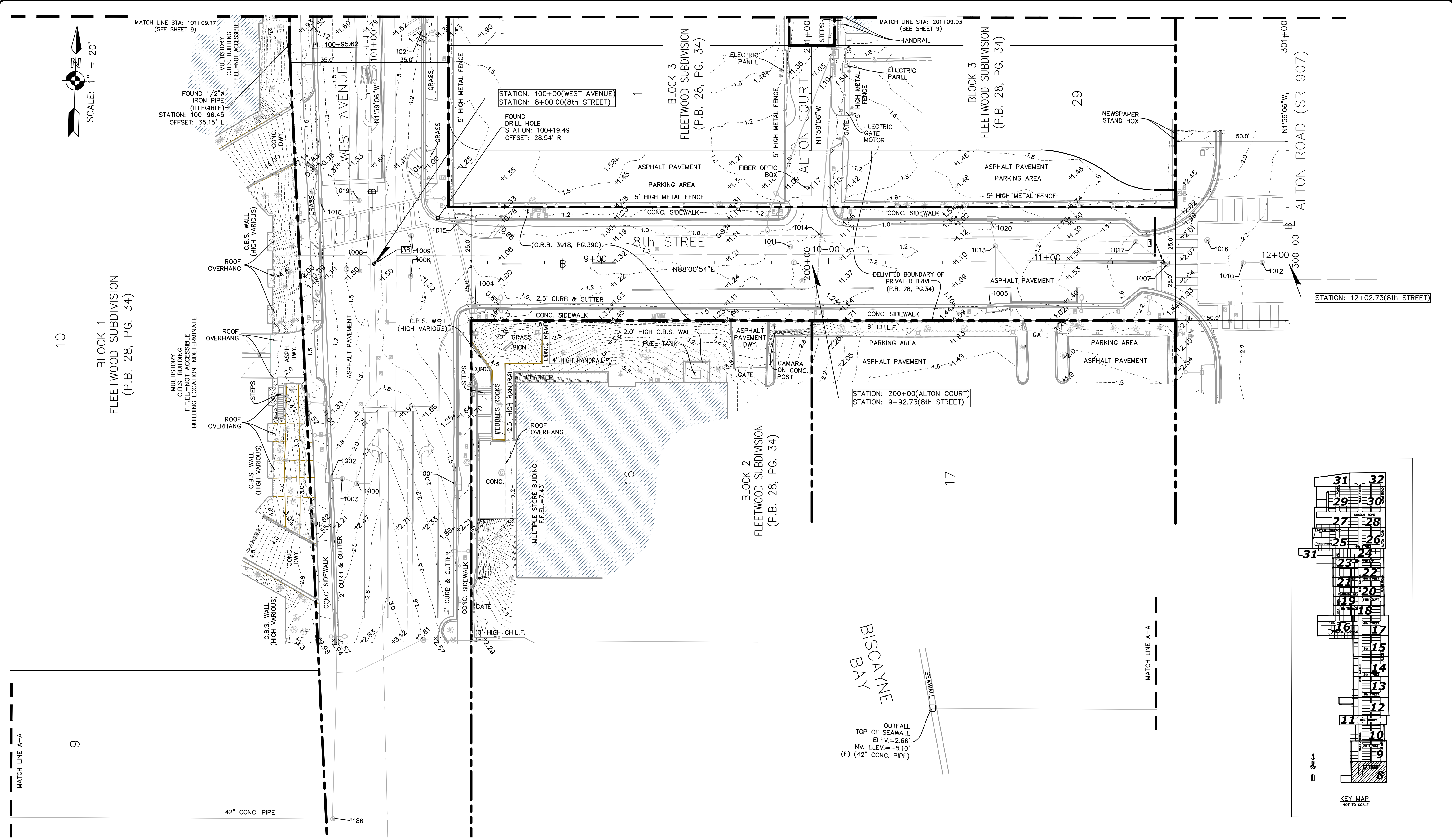
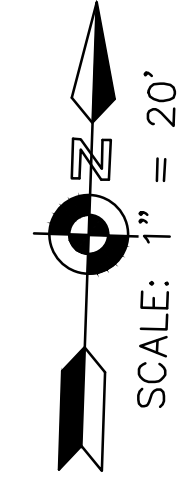
CITY MANAGER: JIMMY L. MORALES
PUBLIC WORKS DIRECTOR: ERIC T. CARPENTER, P.E.
CITY ENGINEER: BRUCE A. MOWRY, Ph.D., P.E.

ENGINEER OF RECORD: ...
DESIGN ENGINEER: ...
DRAWN BY: M.CH, K.B, Z.C.P
CHECKER: Z.C.P
SCALE: 1" = 20' (AT 22"X34")

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1	10/10/2017	REVIEW COMMENT (LONGITUDE SURVEYORS)	MCH
NO.	DATE	REVISION	APP'D. BY

NOT A FIELD BOUNDARY SURVEY
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Survey Reference:
Field Book: AS NOTED Page: AS NOTED Work Order: N/A
Date: 05/10/2017 Sheet: 7 of 32 Drawing: G-07



MIAMI BEACH
PUBLIC WORKS DEPARTMENT
1700 CONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

NEIGHBORHOOD: WEST AVENUE
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MASER
CONSULTING P.A.
8290 N.W. 64th Street
Miami, FL 33166
Phone: 305.597.9701
Fax: 305.597.9702

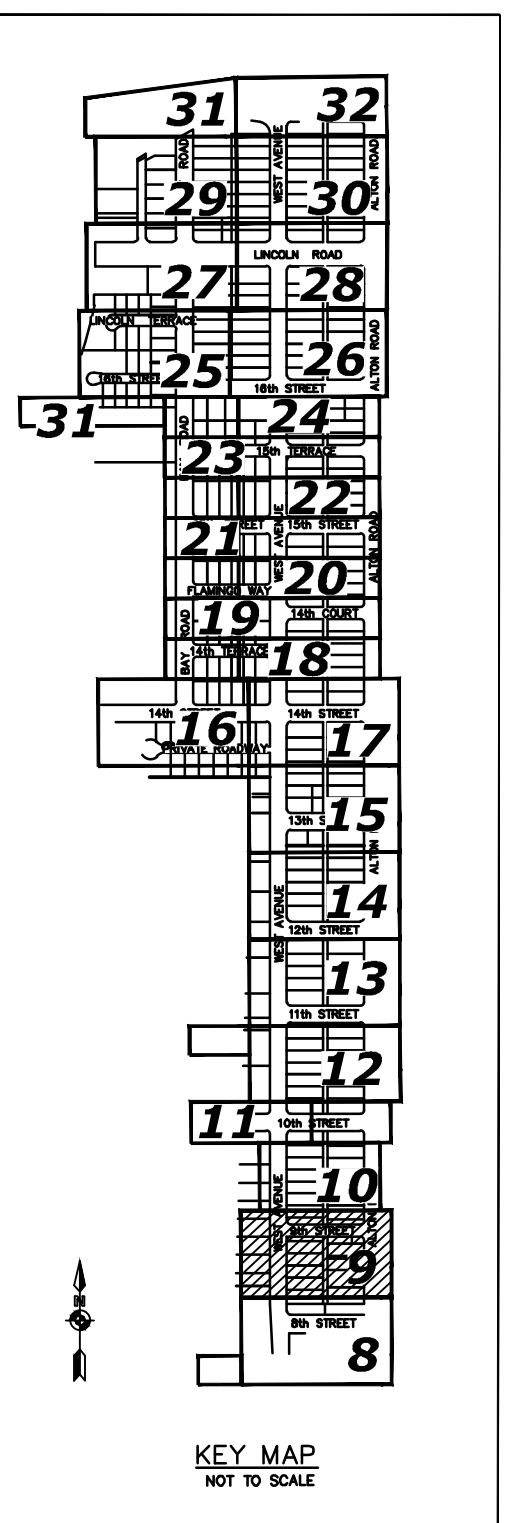
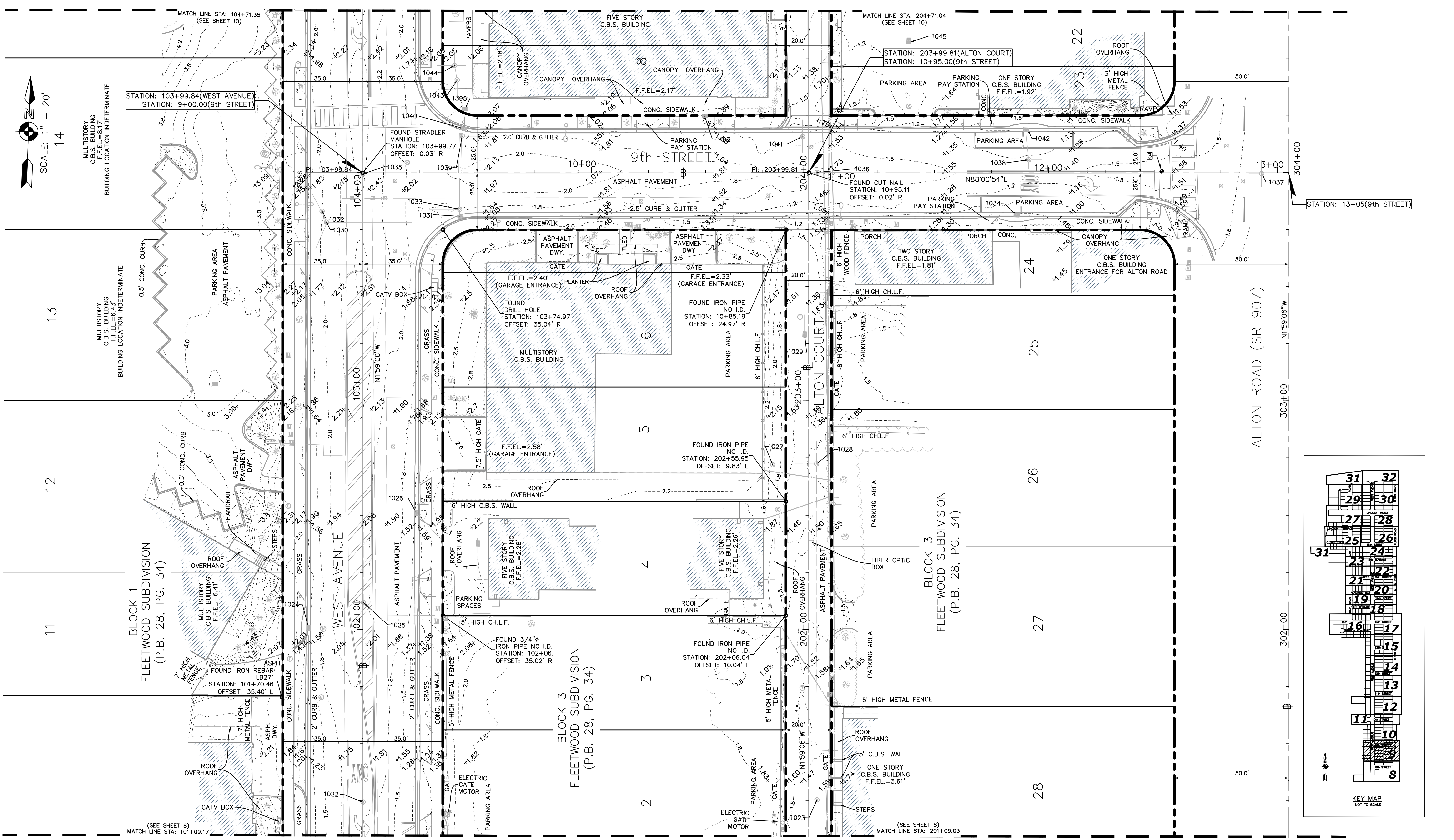
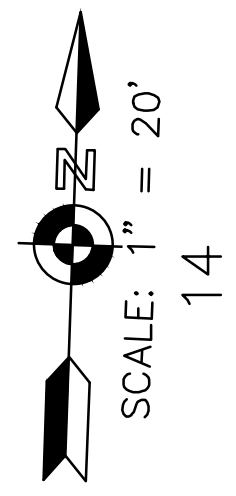
CITY MANAGER: JIMMY L. MORALES
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File Name: SM-2017(West Avenue).dwg
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Field Book: AS NOTED Page: AS NOTED Work Order: N/A
Date: 05/10/2017 Sheet: 8 of 32 Drawing: EC-08



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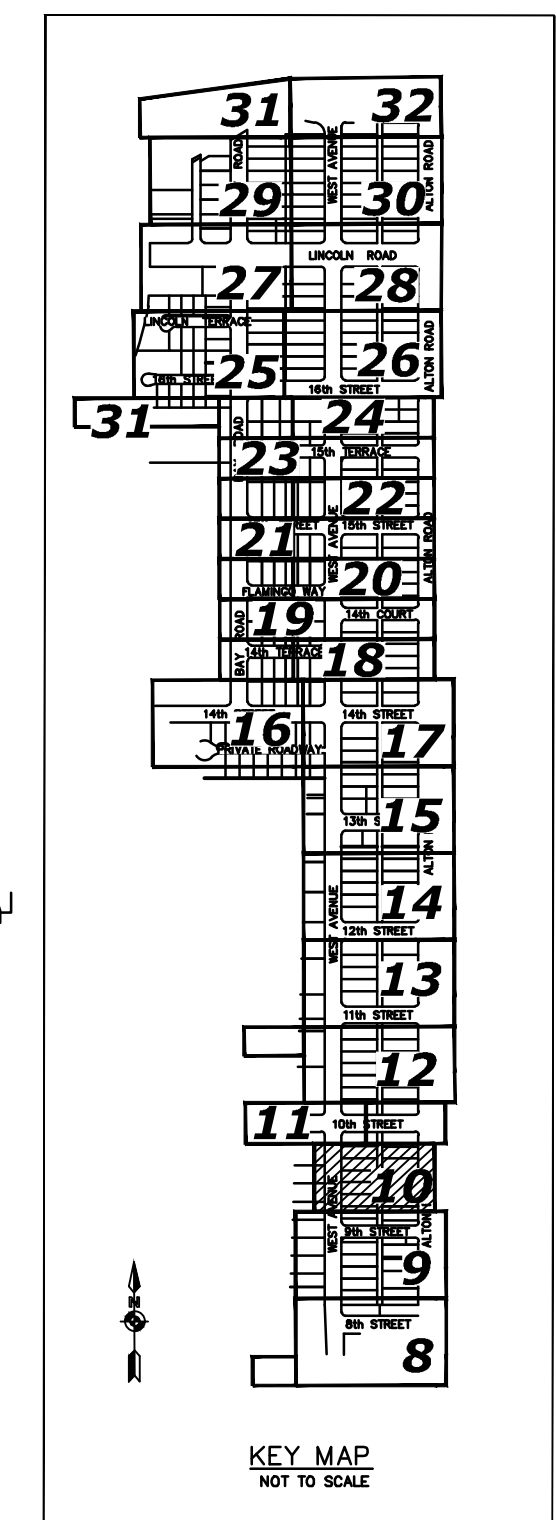
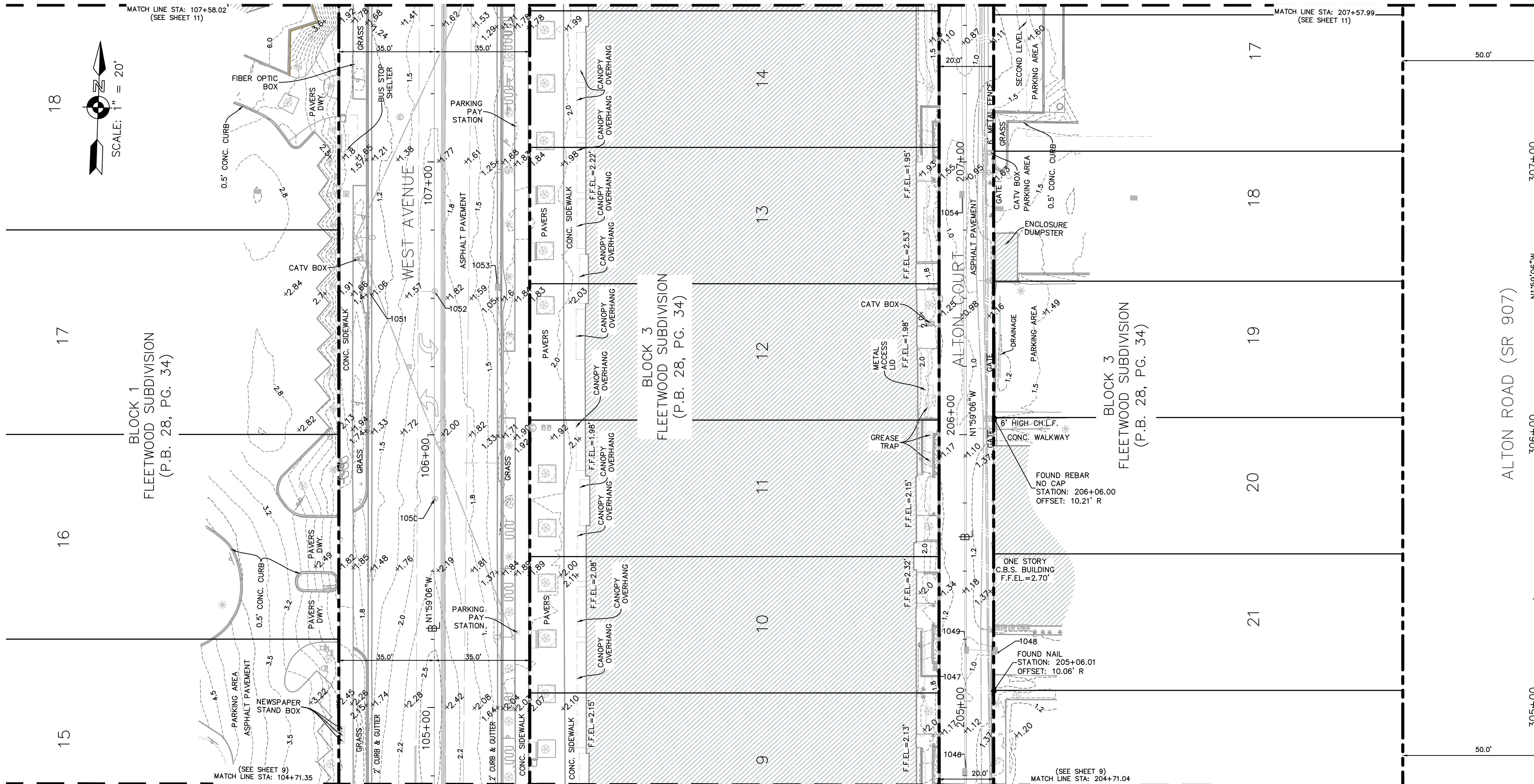
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PUBLIC WORKS DIRECTOR: ERIC T. CARPENTER, P.E.
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DESIGN ENGINEER: ...
DRAWN BY: M.C.H., K.B., Z.C.P.
CHECKER: Z.C.P.
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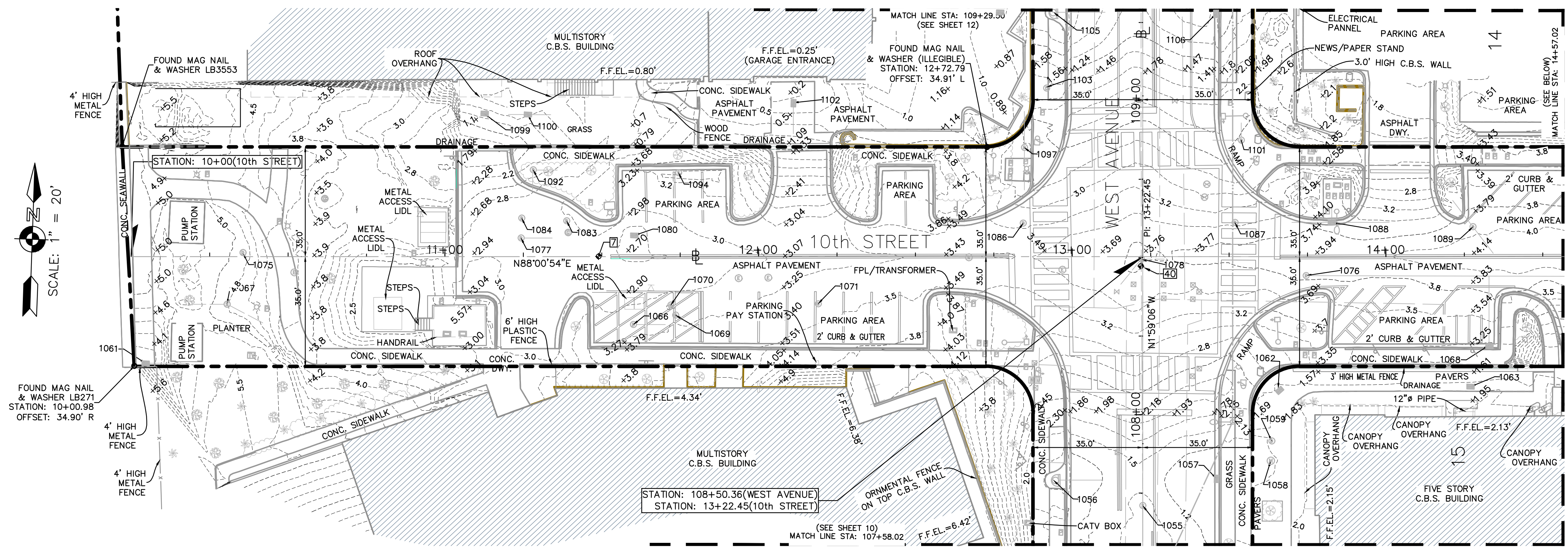
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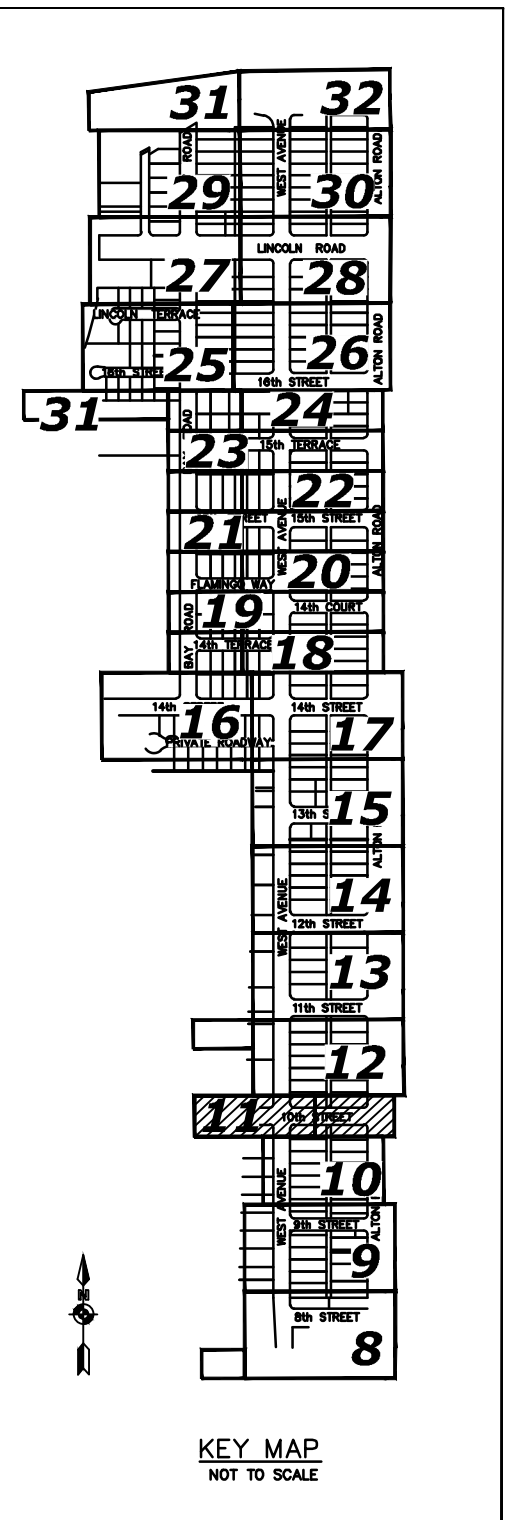
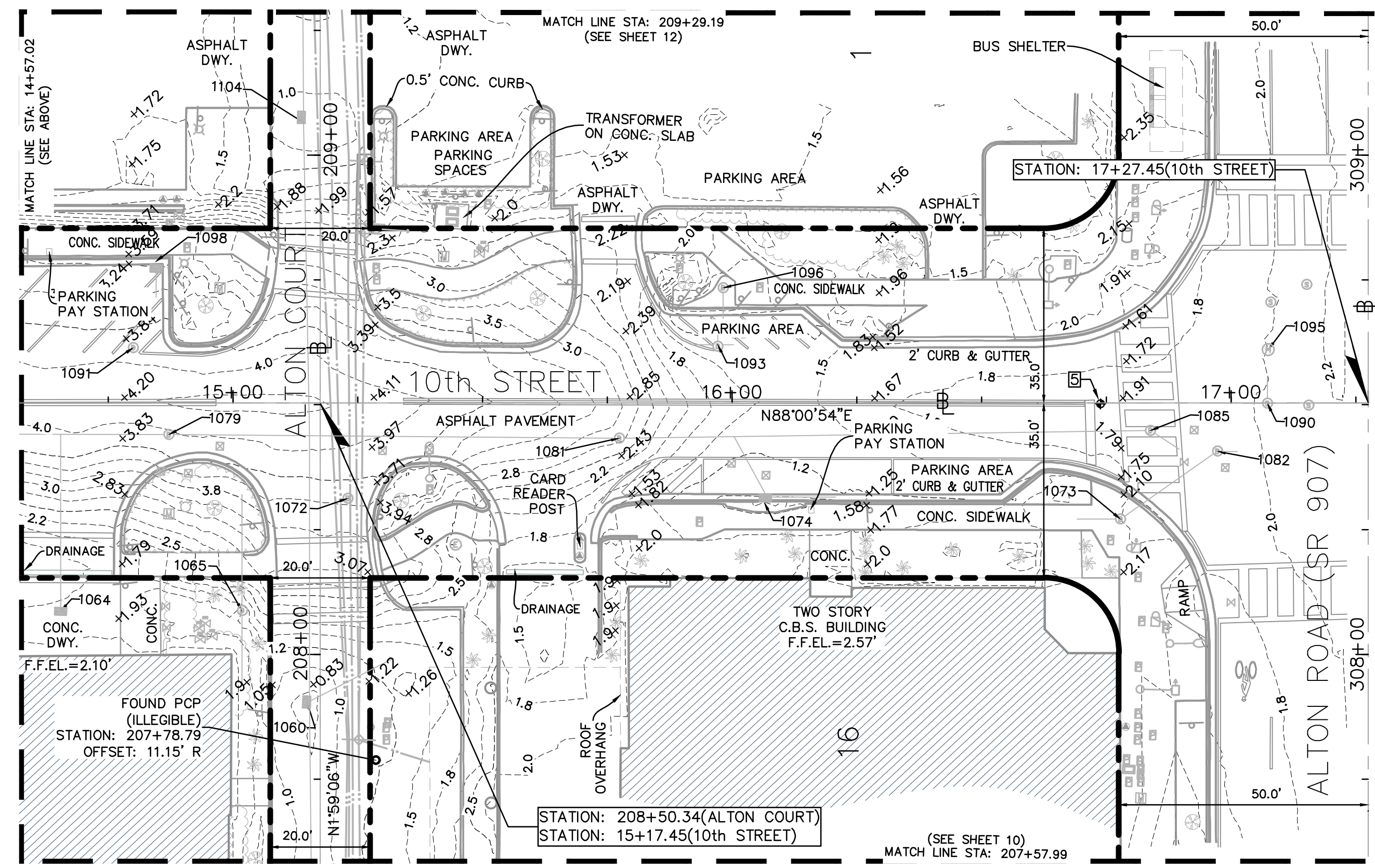
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Date: 05/10/2017 Sheet: 9 of 32 Drawing: EC-09



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SCALE: 1" = 20'



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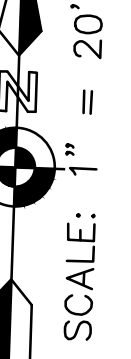
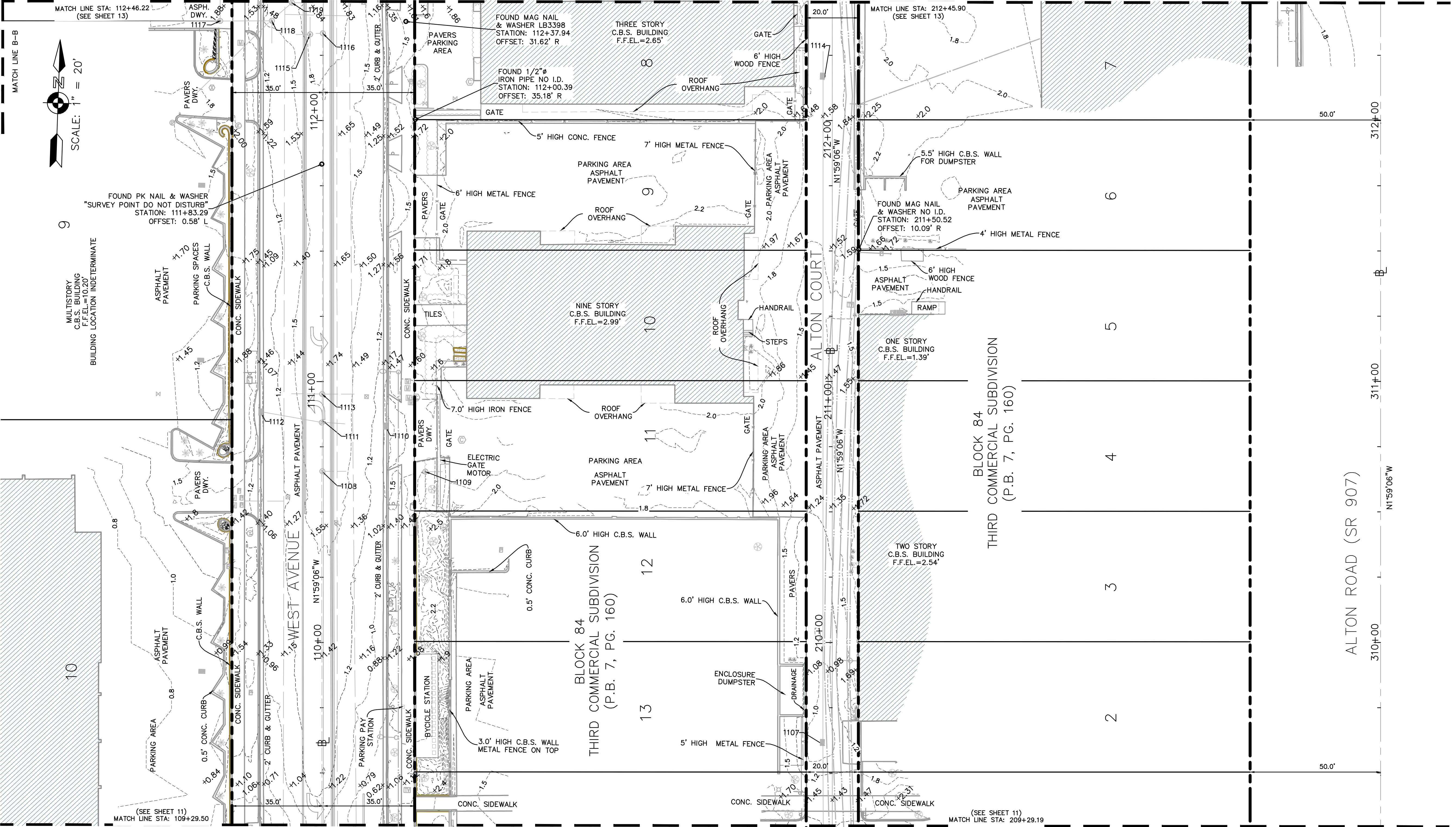
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File Name: SM-2017(West Avenue).dwg
Survey Reference:
Field Book: AS NOTED Page: AS NOTED Work Order: N/A
Date: 05/10/2017 Sheet: 11 of 32 Drawing: EC-11

BISCAYNE BAY

24" UNKNOWN TYPE

OUTFALL TOP OF SEAWALL
ELEV.=9.87'
INV. ELEV.=-4.56'
(E) (24" UNKNOWN TYPE)

MATCH LINE B-B

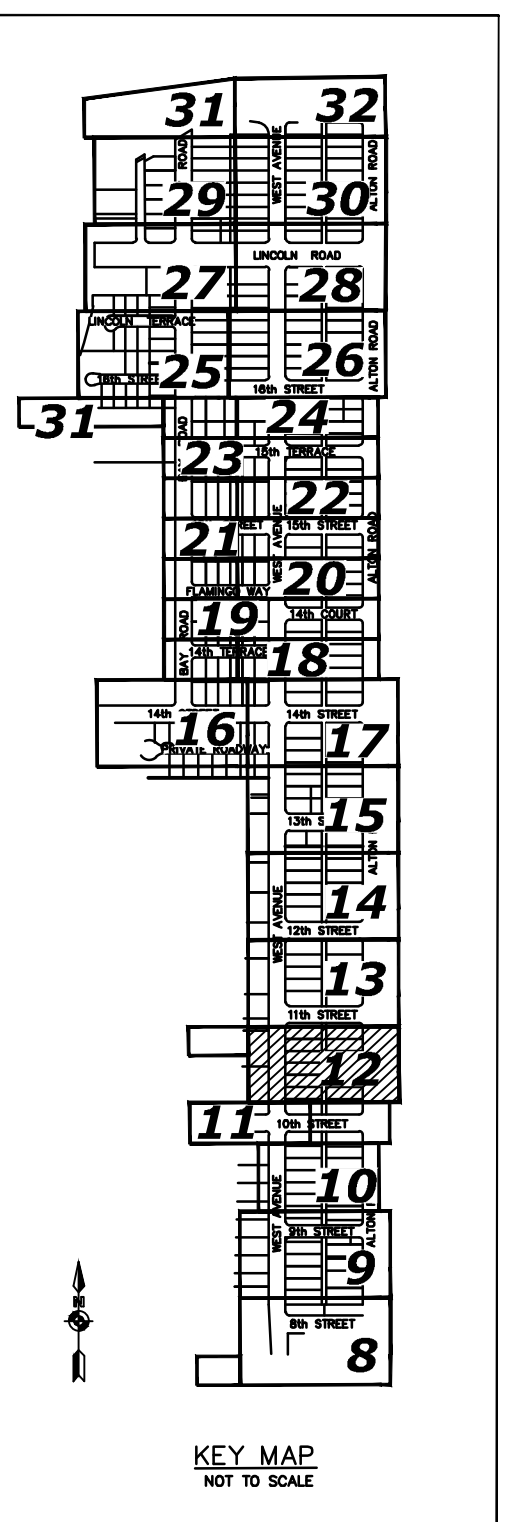


FOUND PK NAIL & WASHER
"SURVEY POINT DO NOT DISTURB"
STATION: 111+83.29
OFFSET: 0.58' R

MULTISTORY
C.B.S. BUILDING
F.F.E.L.=2.65'
BUILDING LOCATION INDETERMINATE

(SEE SHEET 11)
MATCH LINE STA: 109+29.50

(SEE SHEET 11)
MATCH LINE STA: 209+29.19



KEY MAP
NOT TO SCALE

MIAMI BEACH
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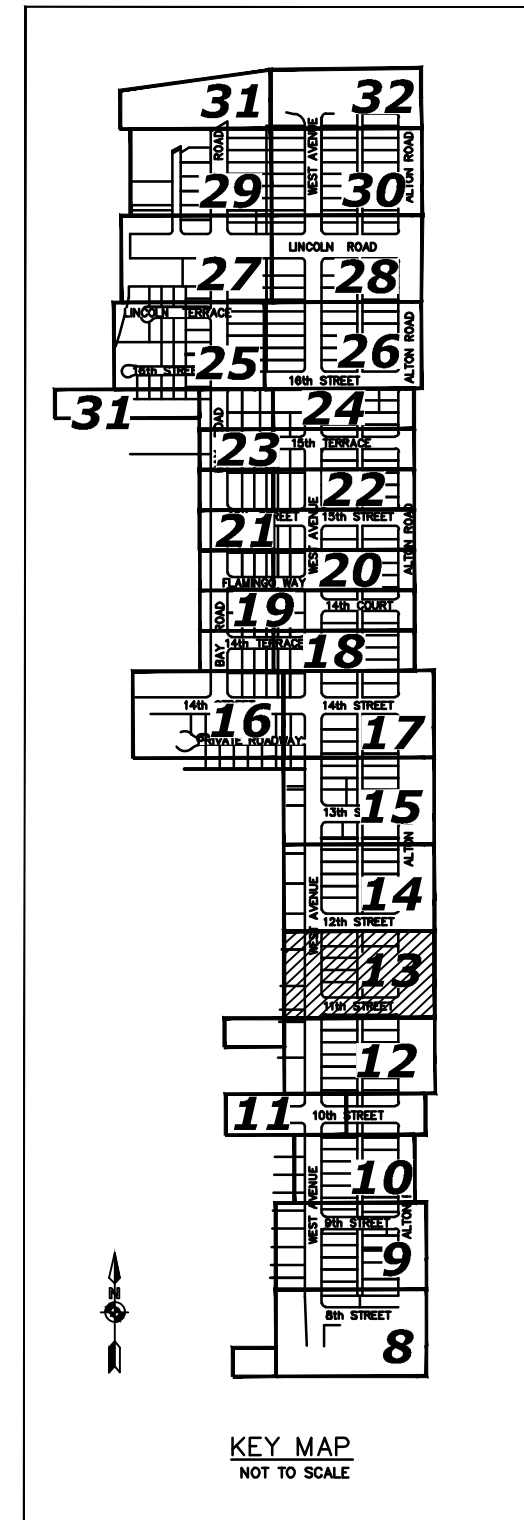
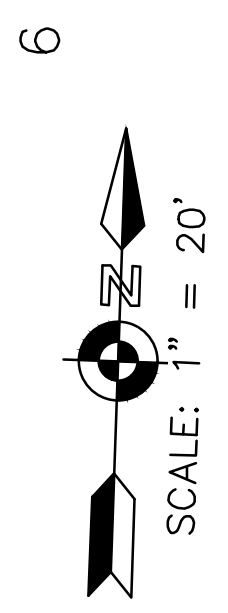
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File Name: SM-2017(West Avenue).dwg
Survey Reference:
Field Book: AS NOTED Page: AS NOTED Work Order: N/A
Date: 05/10/2017 Sheet: 12 of 32 Drawing: EC-12



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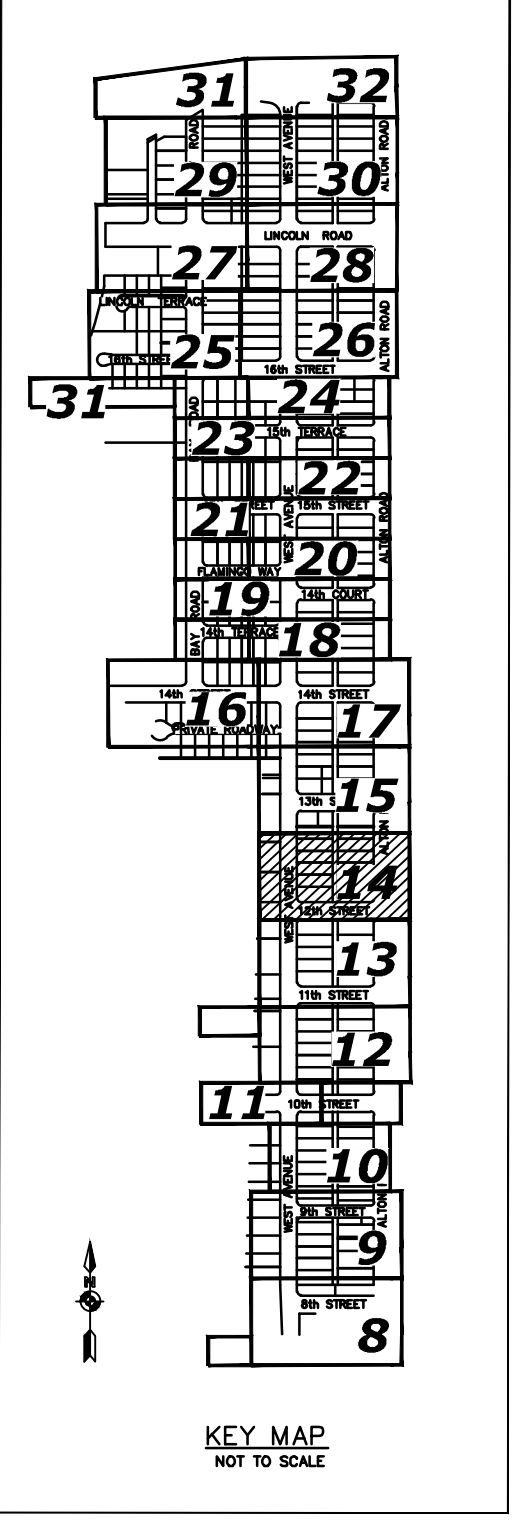
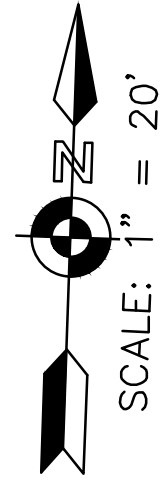
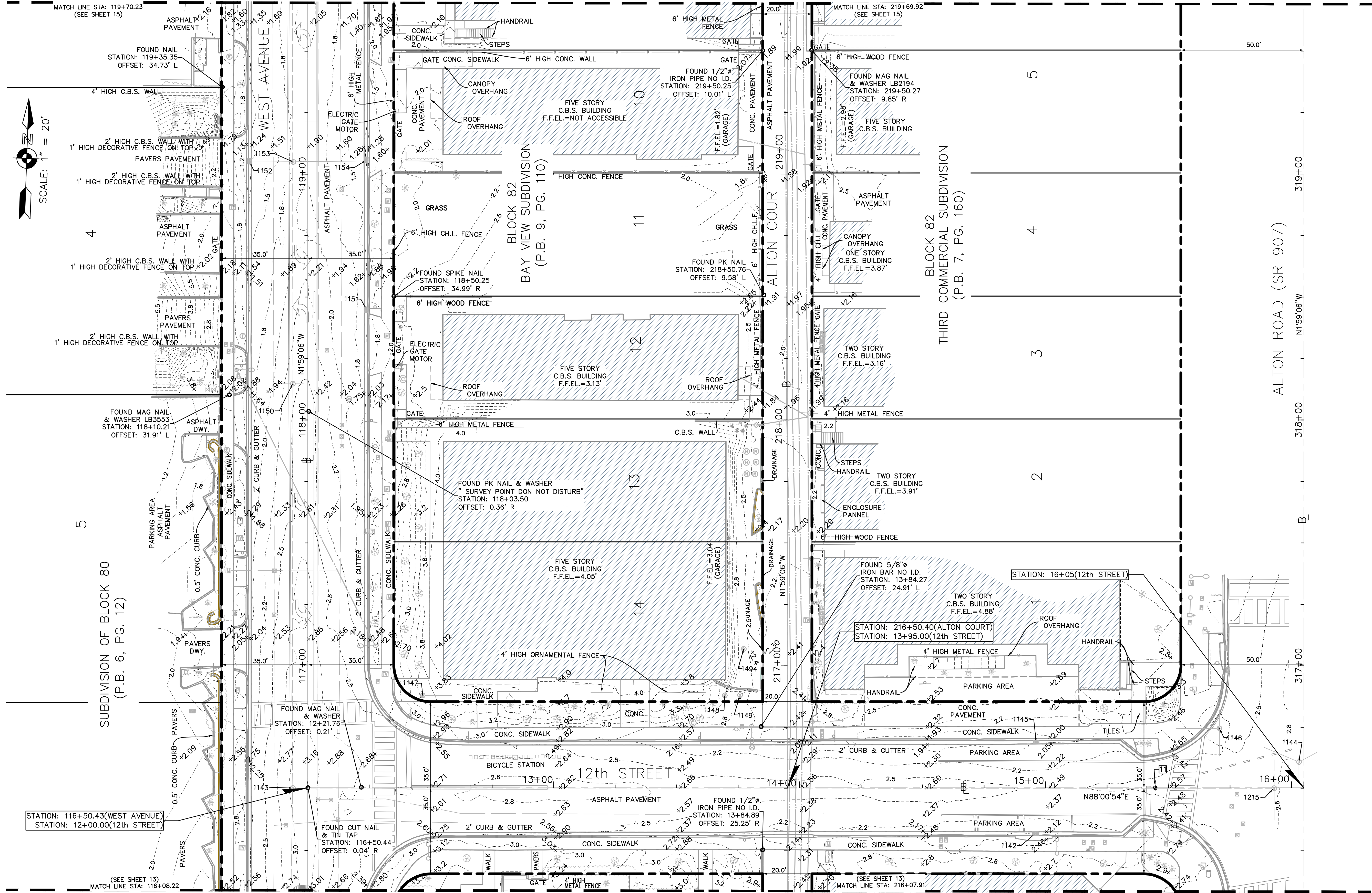
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 Field Book: AS NOTED Page: AS NOTED Work Order: N/A
 Date: 05/10/2017 Sheet: 13 of 32 Drawing: EC-13



MIAMI BEACH
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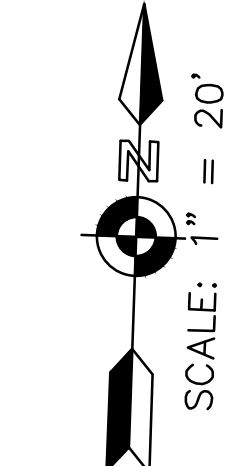
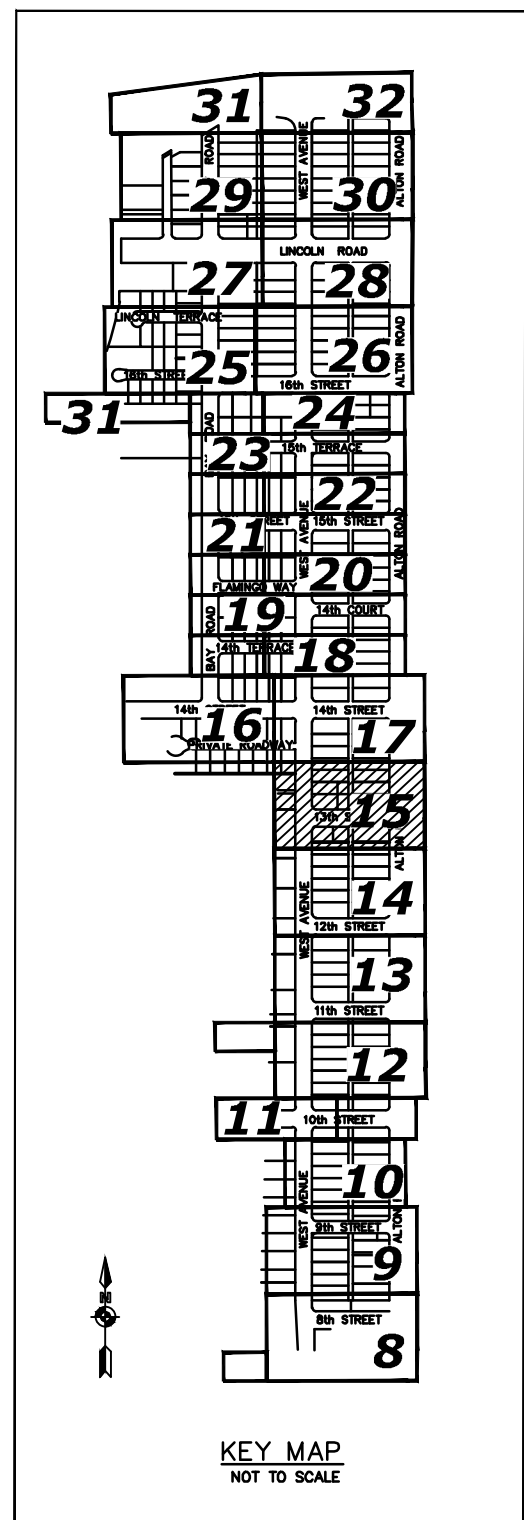
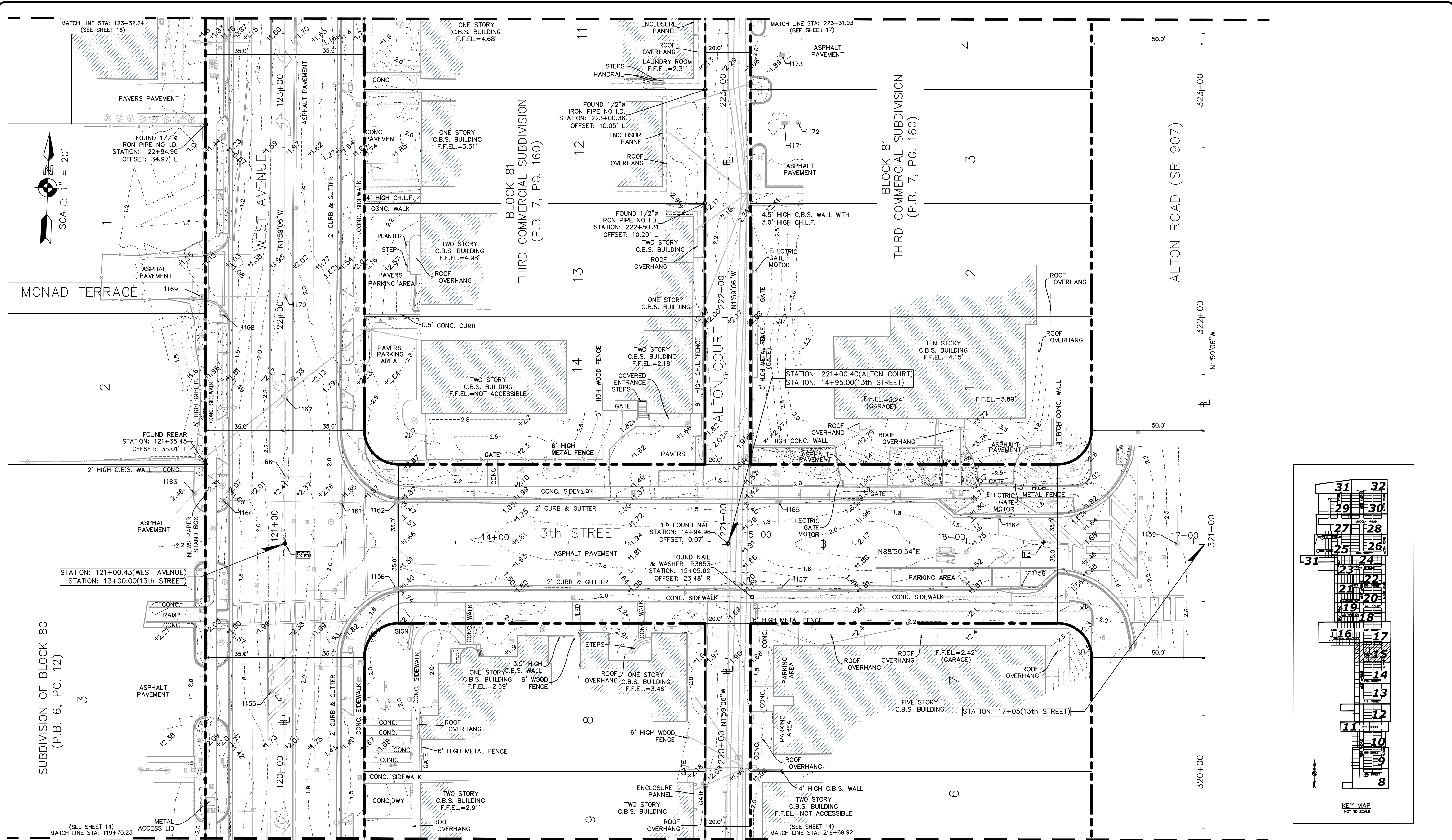
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Date: 05/10/2017 Sheet: 14 of 32 Drawing: EC-14



SUBDIVISION OF BLOCK 80
(P.B. 6, PG. 12)

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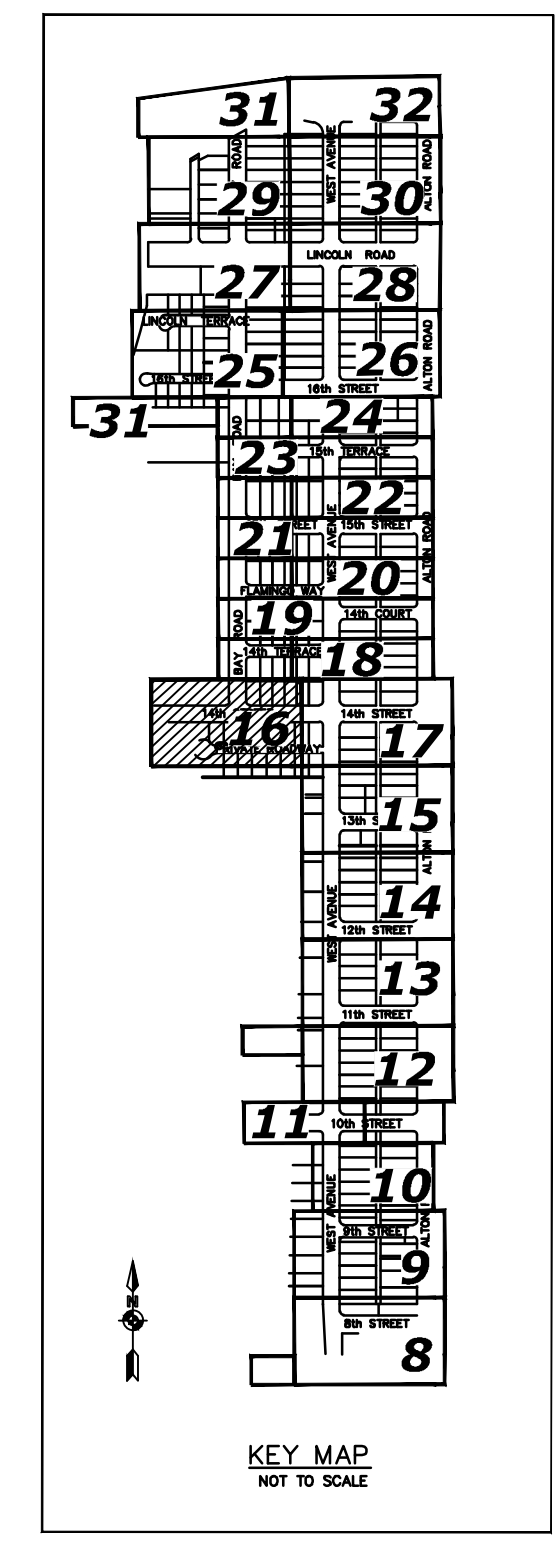
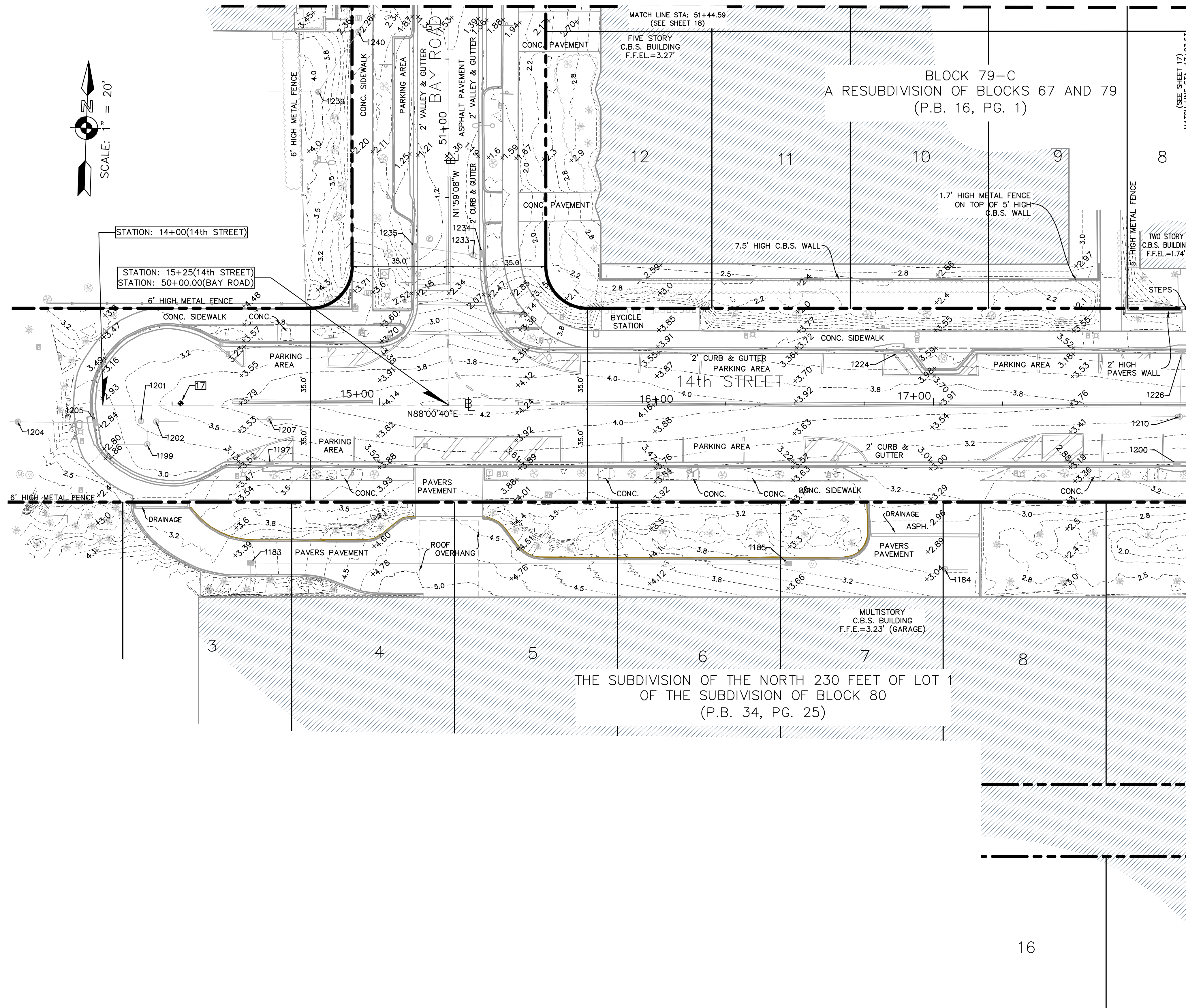
CITY MANAGER: JIMMY L. MORALES
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Date: 05/10/2017 Sheet: 15 of 32 Drawing: EC-15

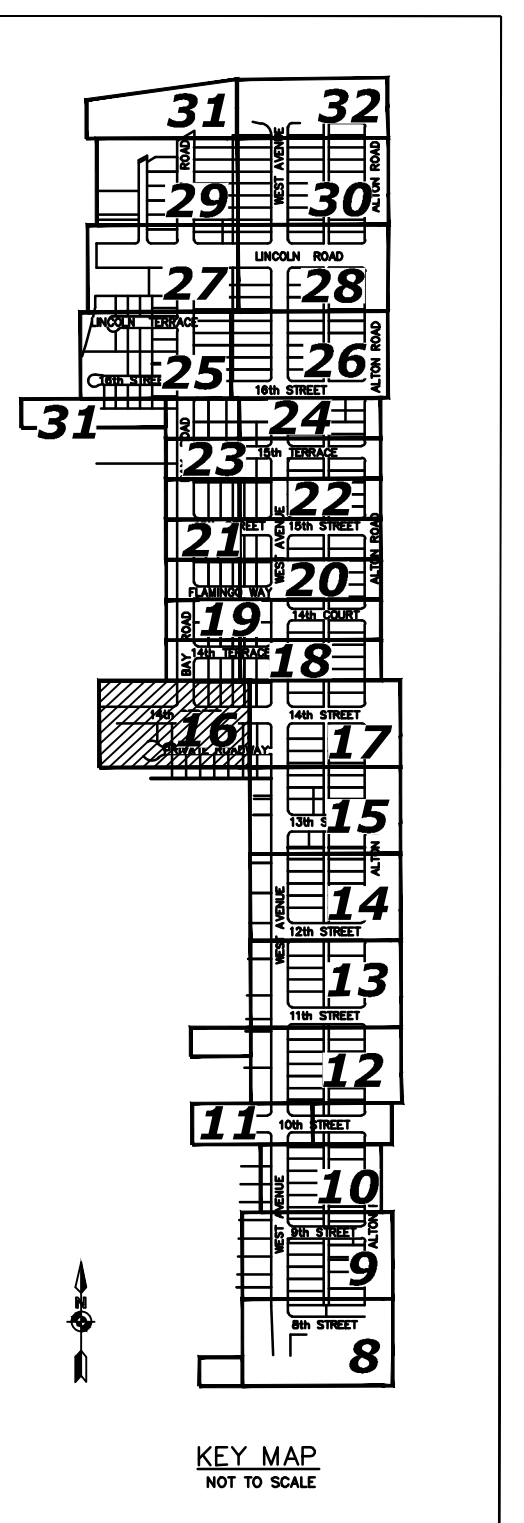
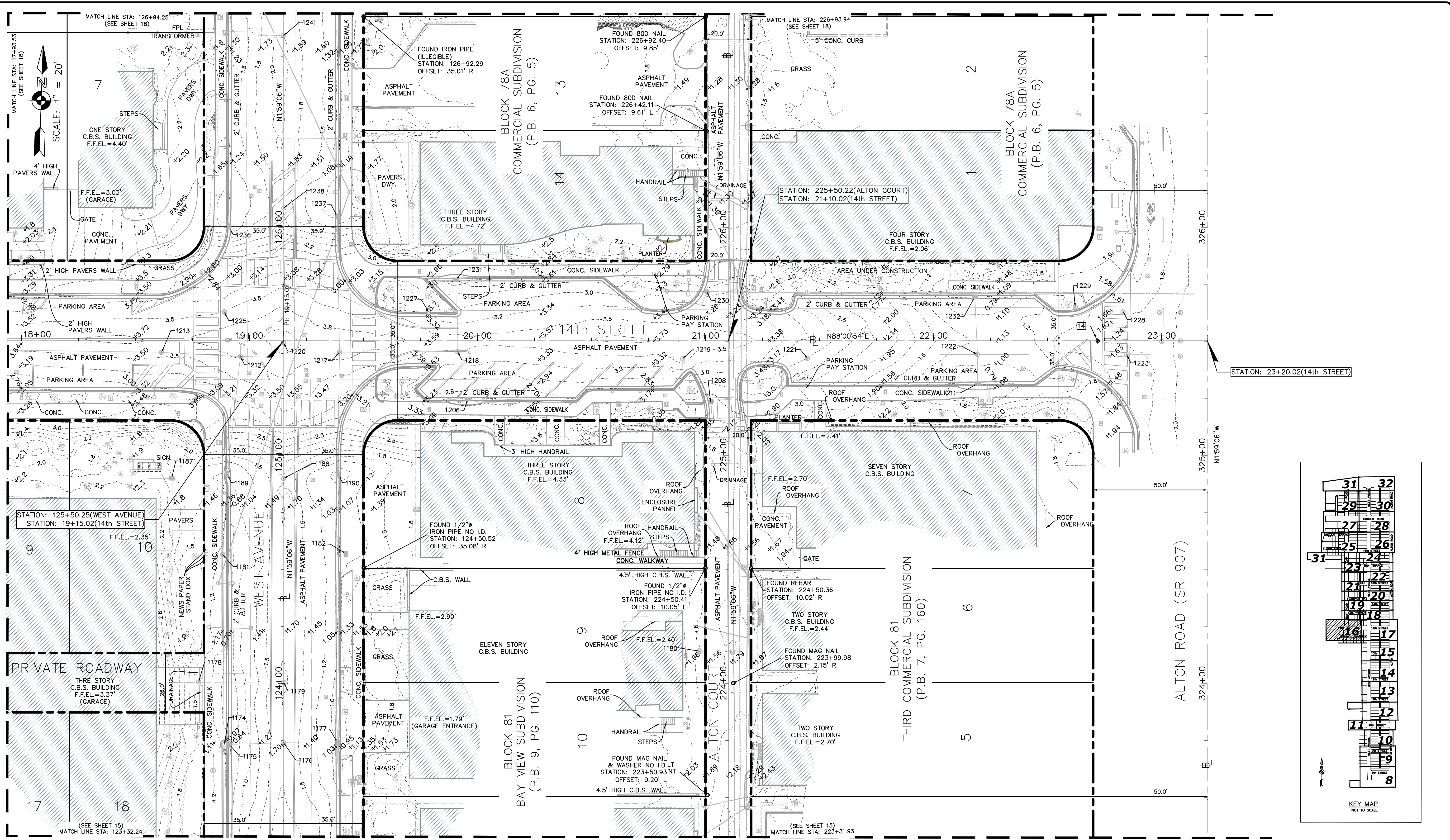


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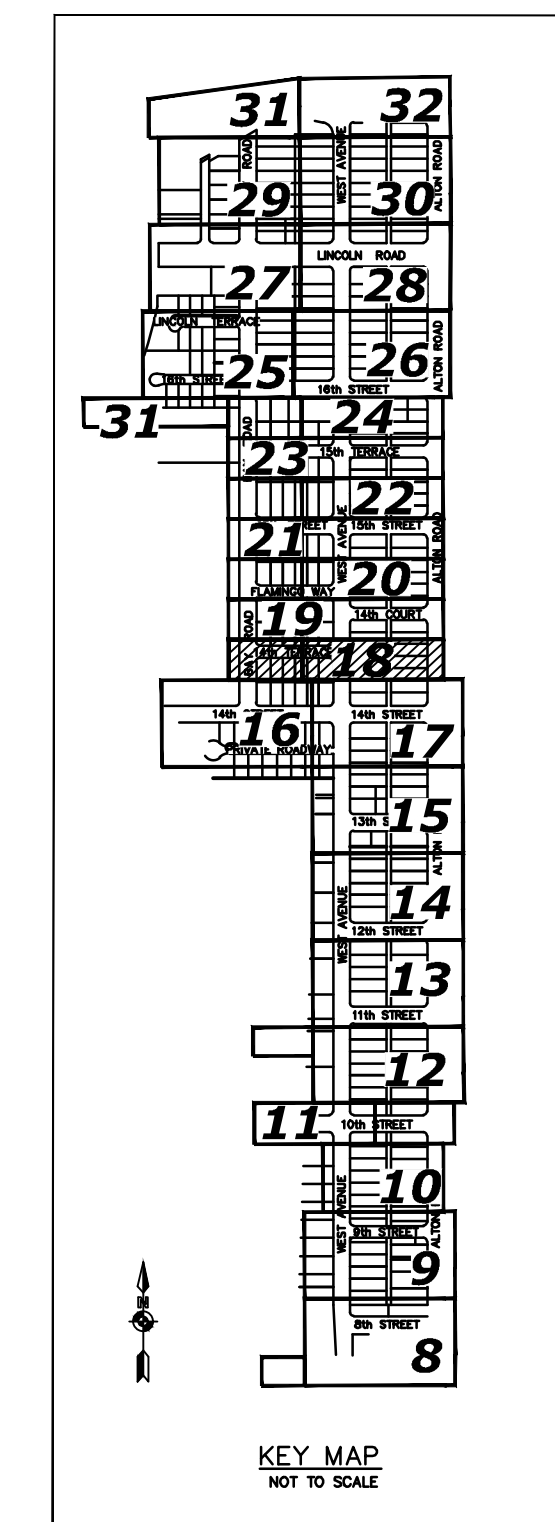
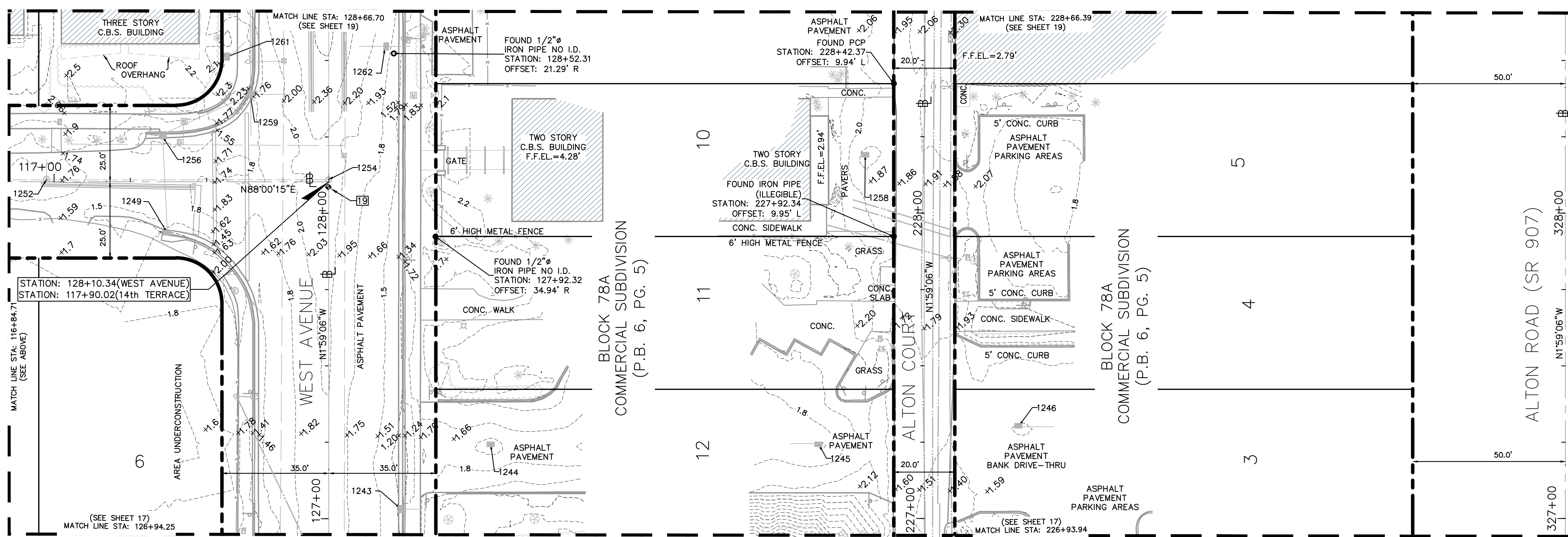
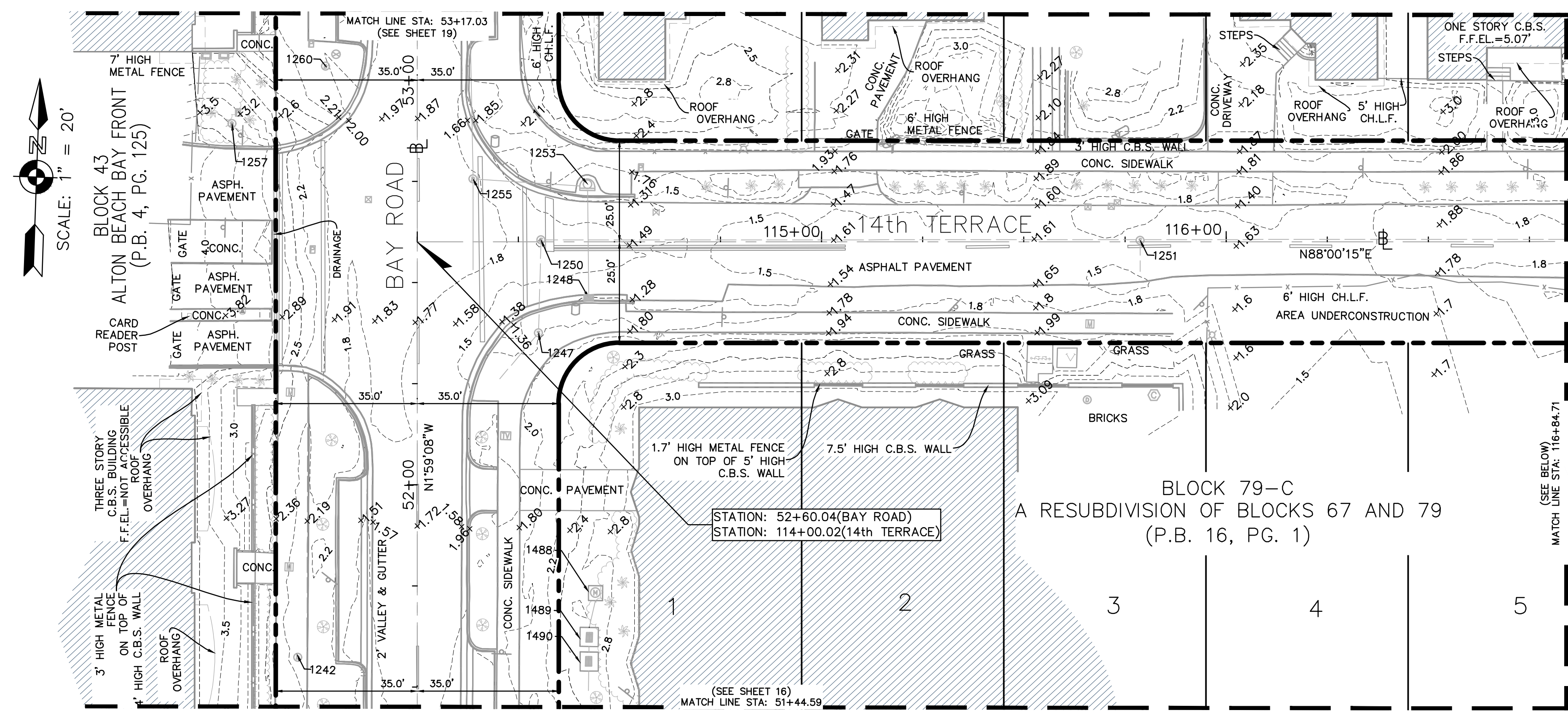
CITY MANAGER: JIMMY L. MORALES
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DESIGN ENGINEER: ...
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Date: 05/10/2017 Sheet: 17 of 32 Drawing: EC-17



MIAMI BEACH
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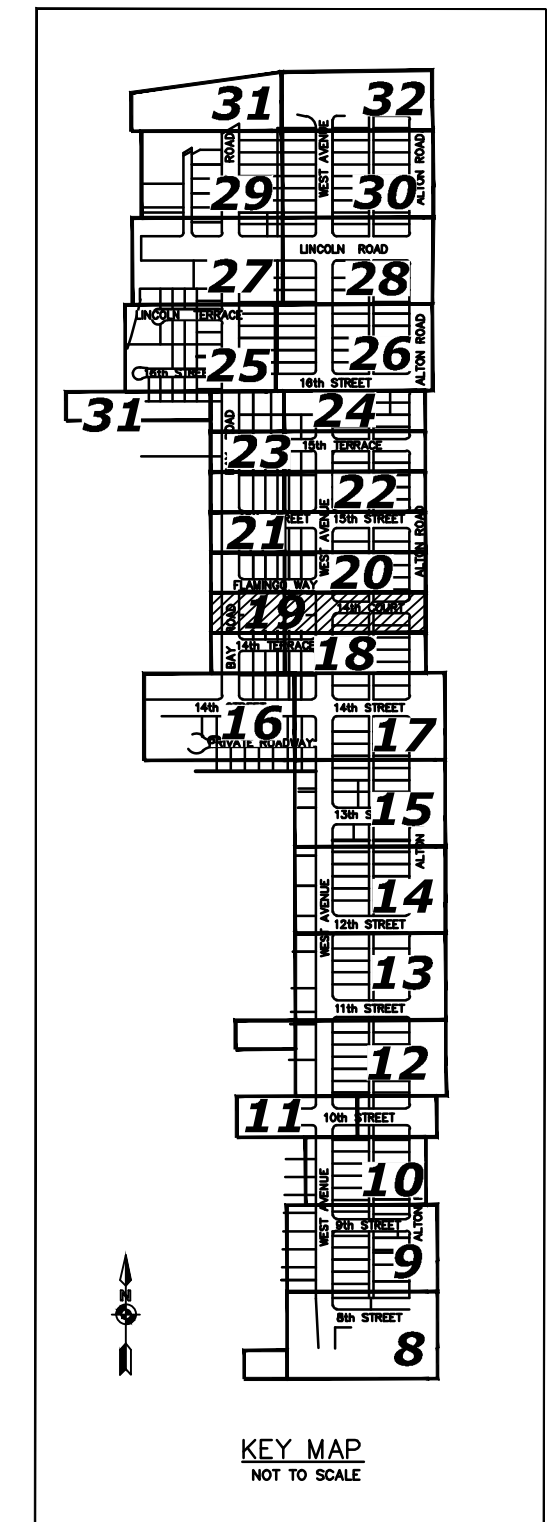
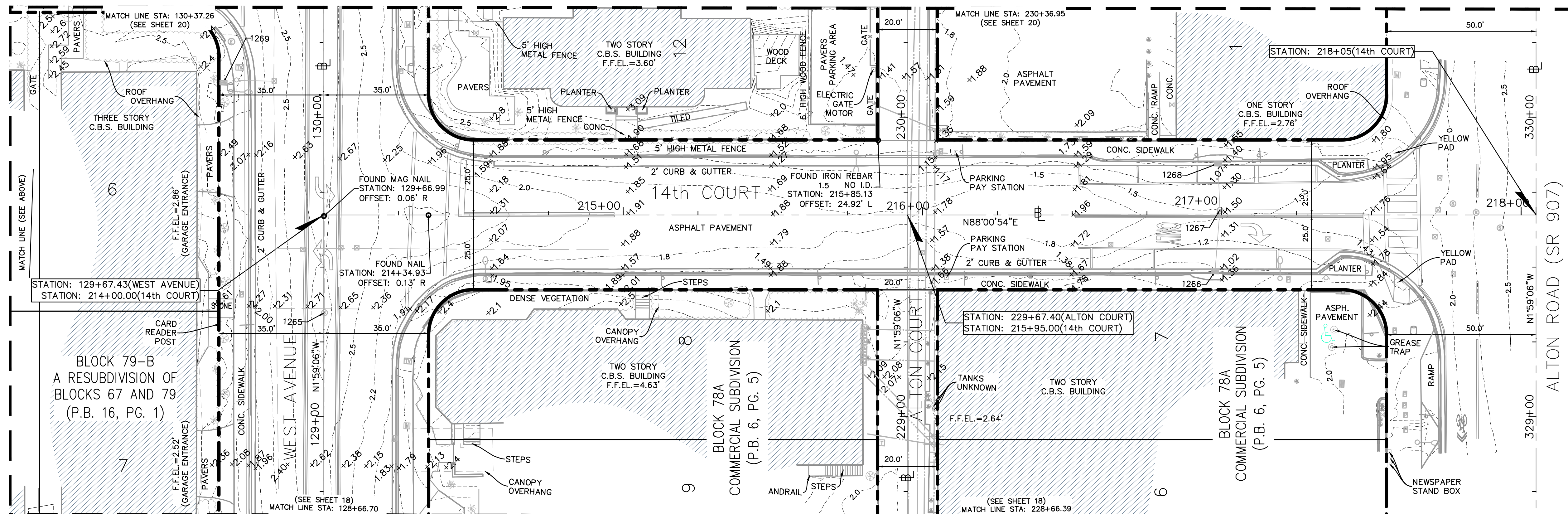
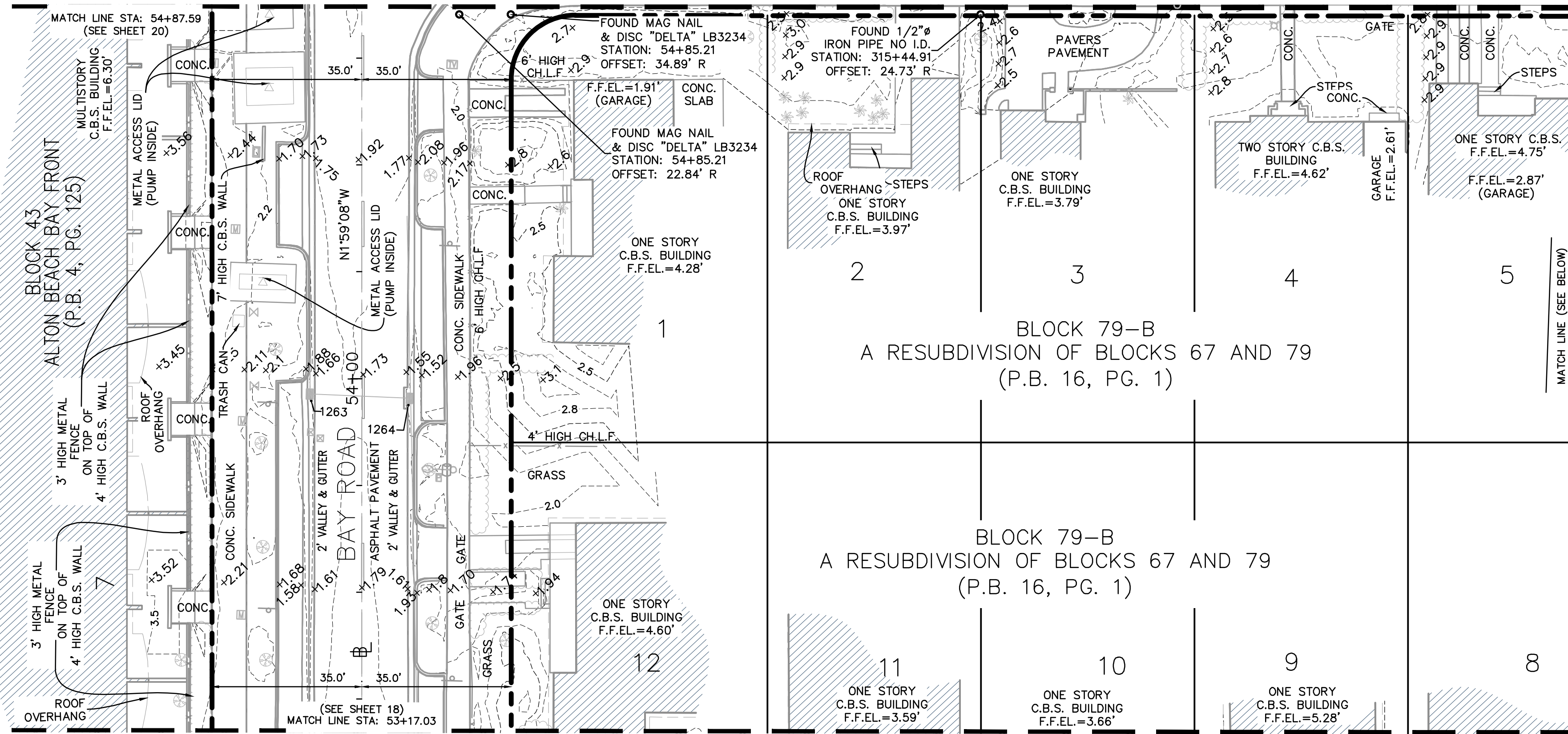
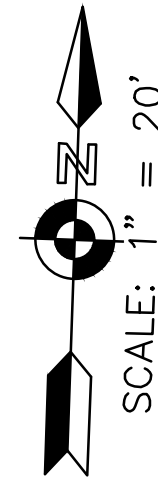
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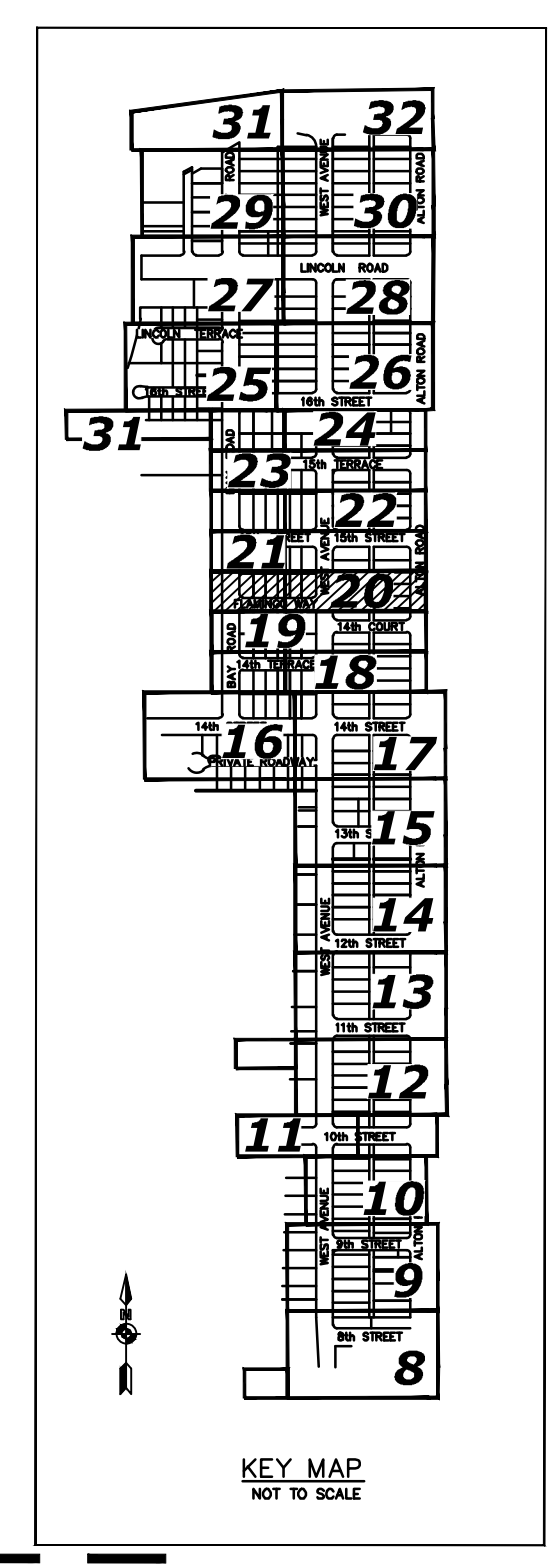
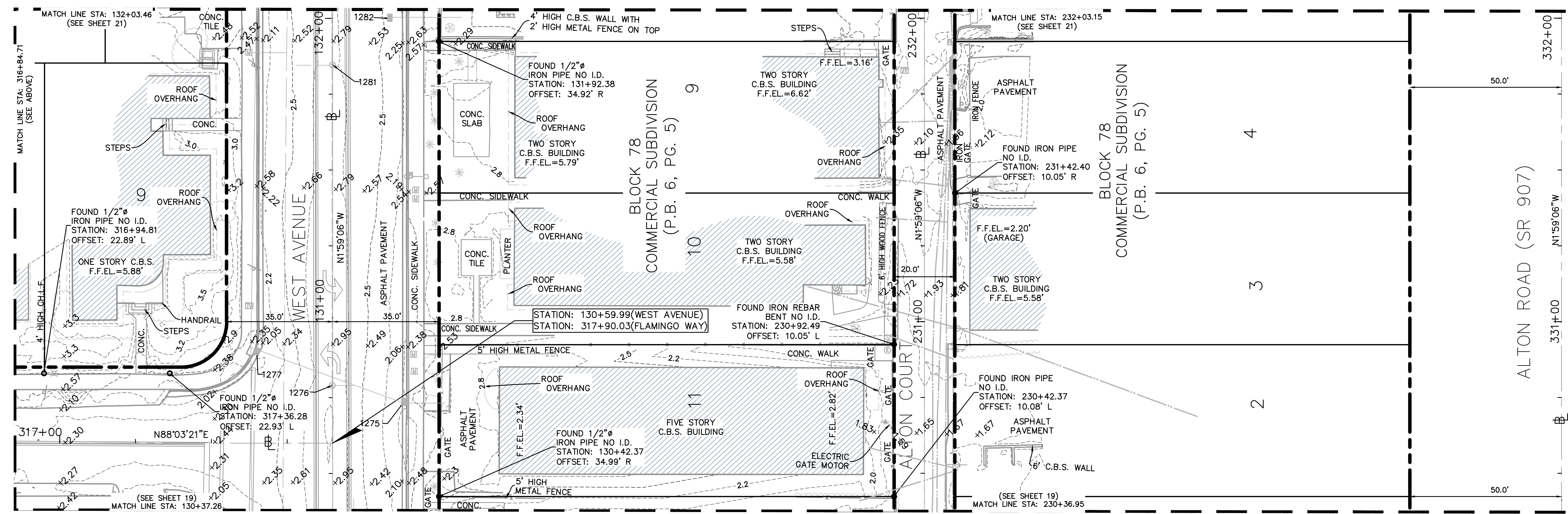
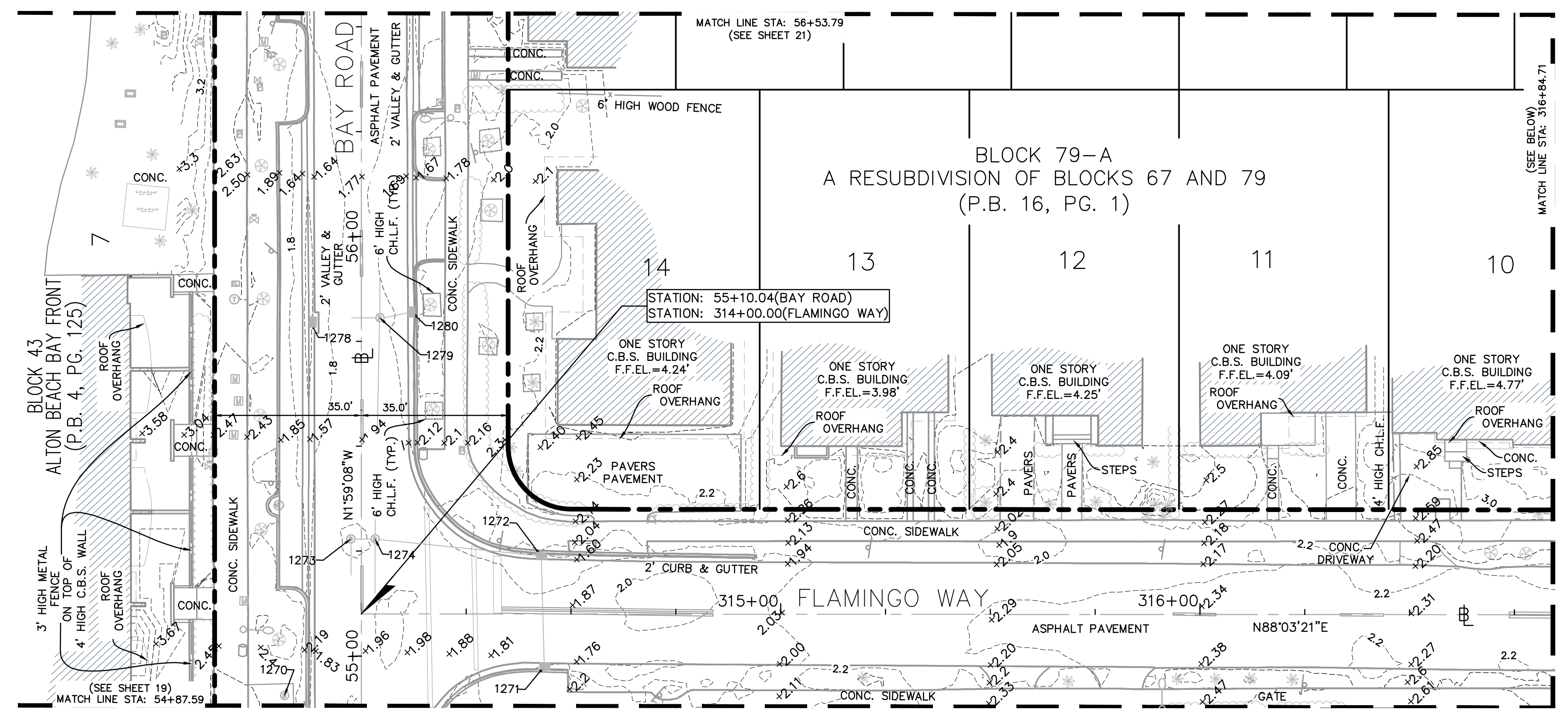
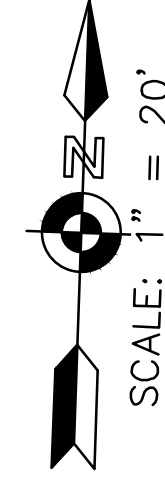
THIS DOCUMENT CONSISTS OF 32 SHEETS AND EACH SHEET SHALL NOT BE CONSIDERED FULL, VALID AND COMPLETE UNLESS ATTACHED TO THE OTHERS

NO.	DATE	REVISION	APP'D. BY
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1	10/10/2017	REVIEW COMMENT (LONGITUDE SURVEYORS)	MCH

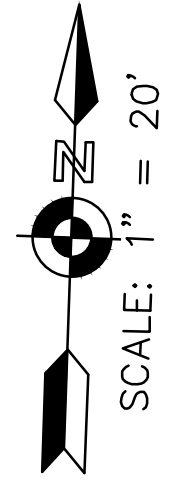
NOT A FIELD BOUNDARY SURVEY
File Path: R:\Projects\2015\15400182A City of Miami Beach\001 West Ave\Survey\dwg
File Name: SM-2017(West Avenue).dwg
Survey Reference:
Field Book: AS NOTED Page: AS NOTED Work Order: N/A
Date: 05/10/2017 Sheet: 18 of 32 Drawing: EC-18



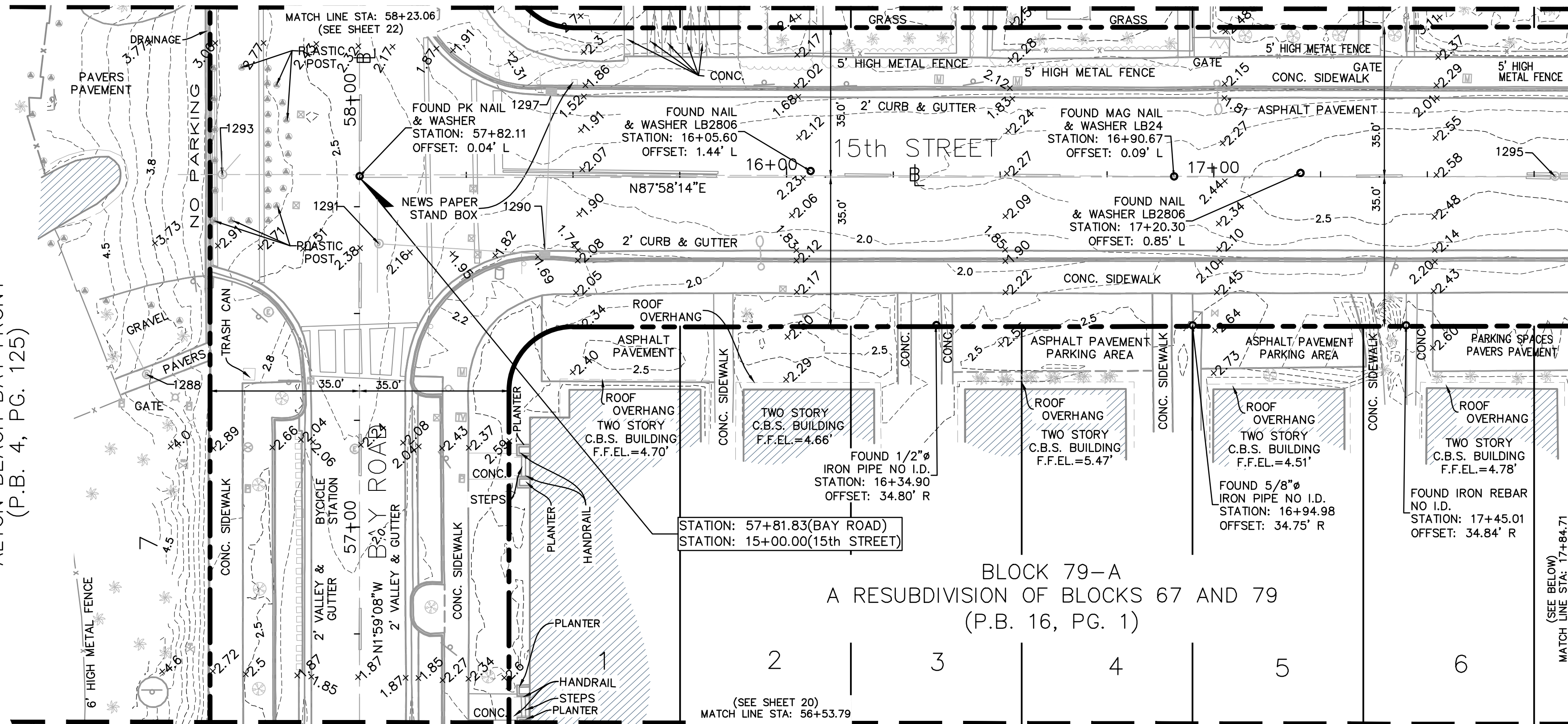
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1	10/10/2017	REVIEW COMMENT (LONGITUDE SURVEYORS)	MCH



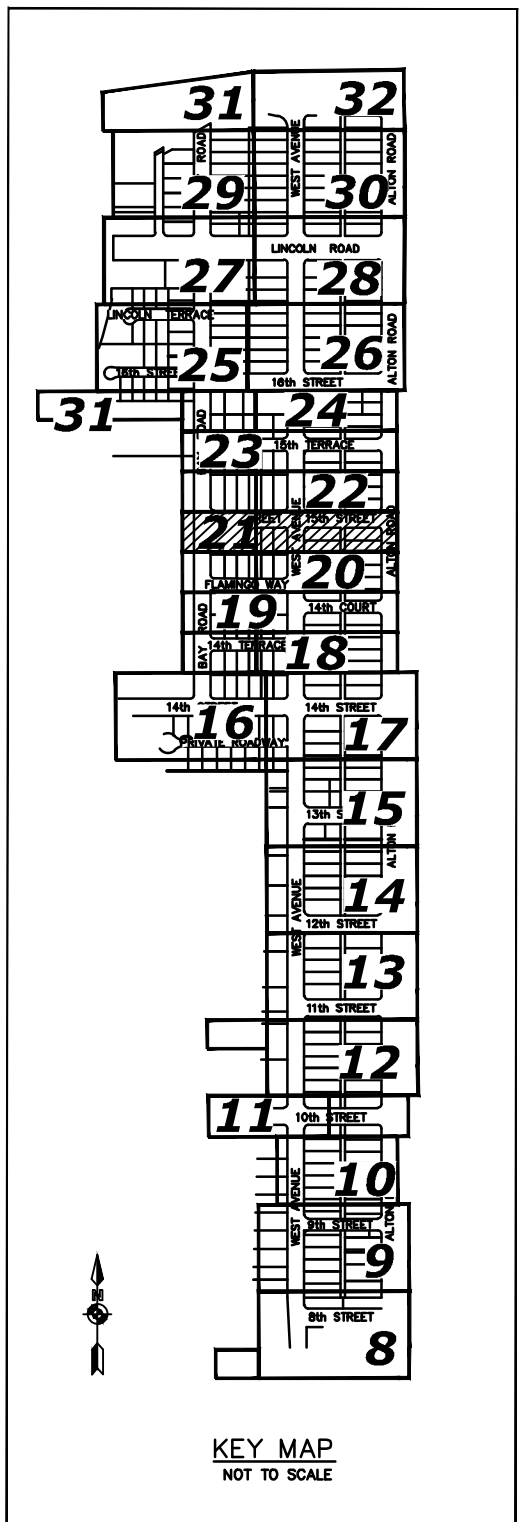
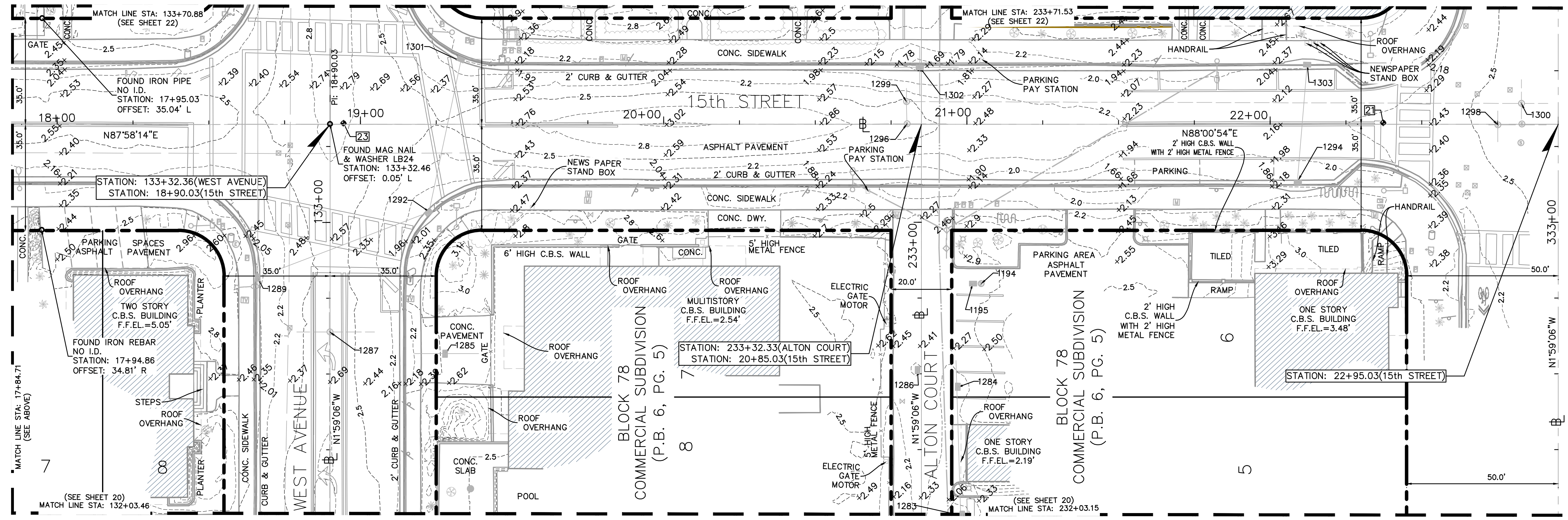
NO.	DATE	REVISION	APP'D. BY
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1	10/10/2017	REVIEW COMMENT (LONGITUDE SURVEYORS)	MCH



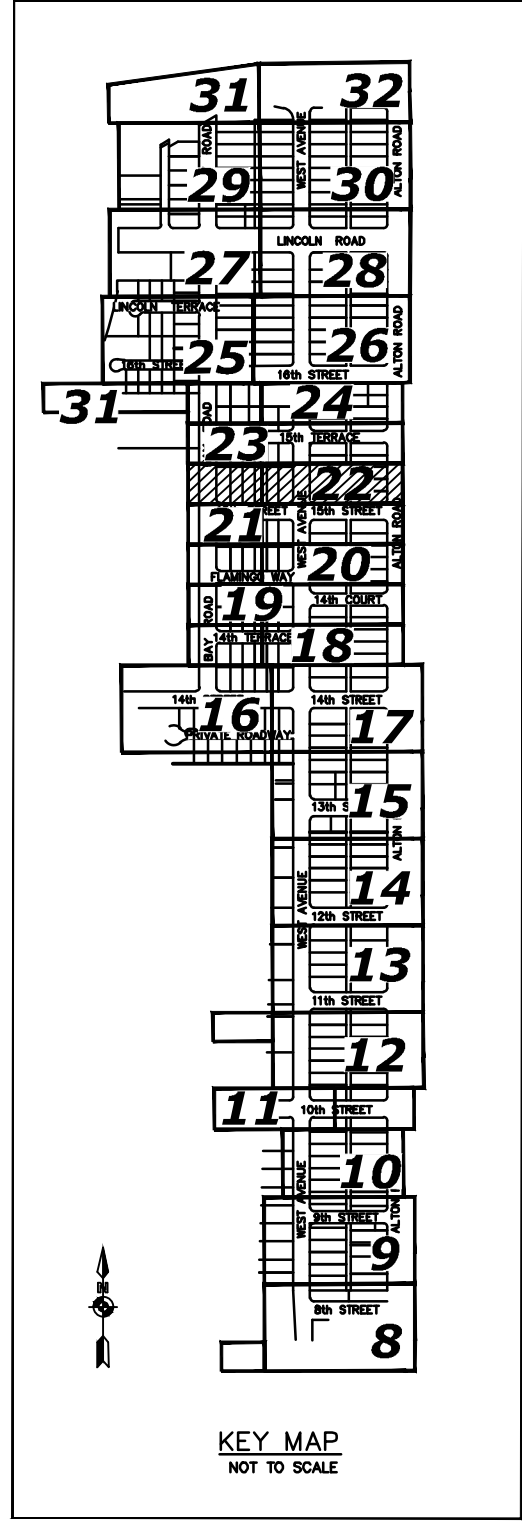
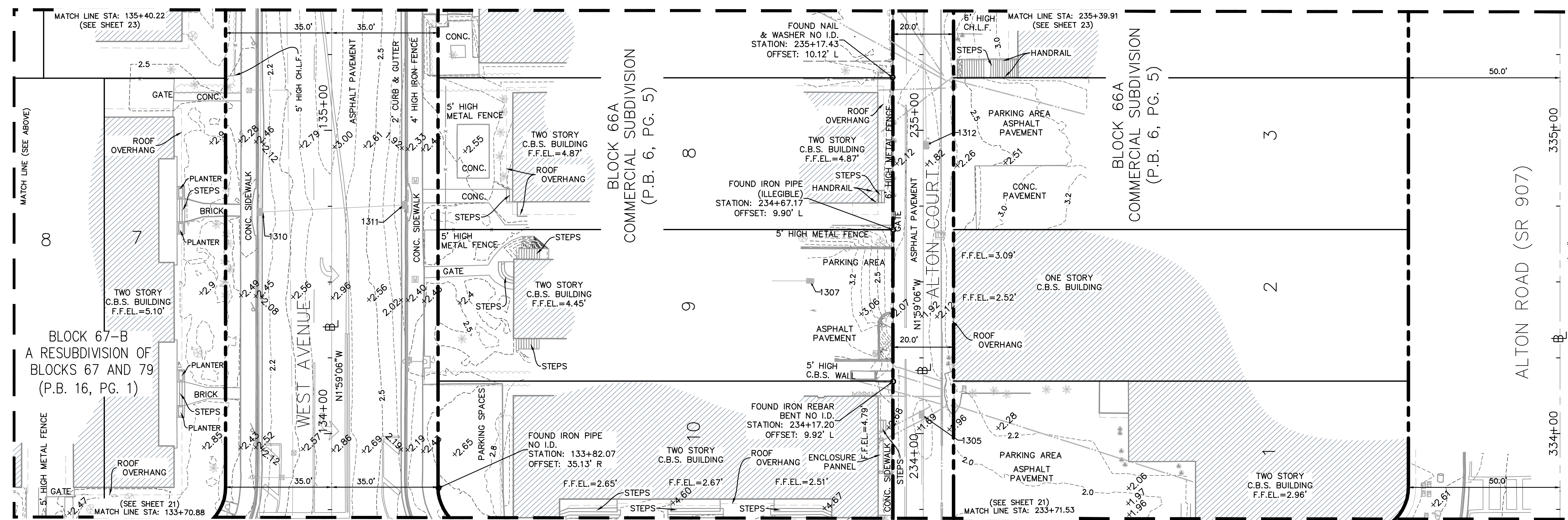
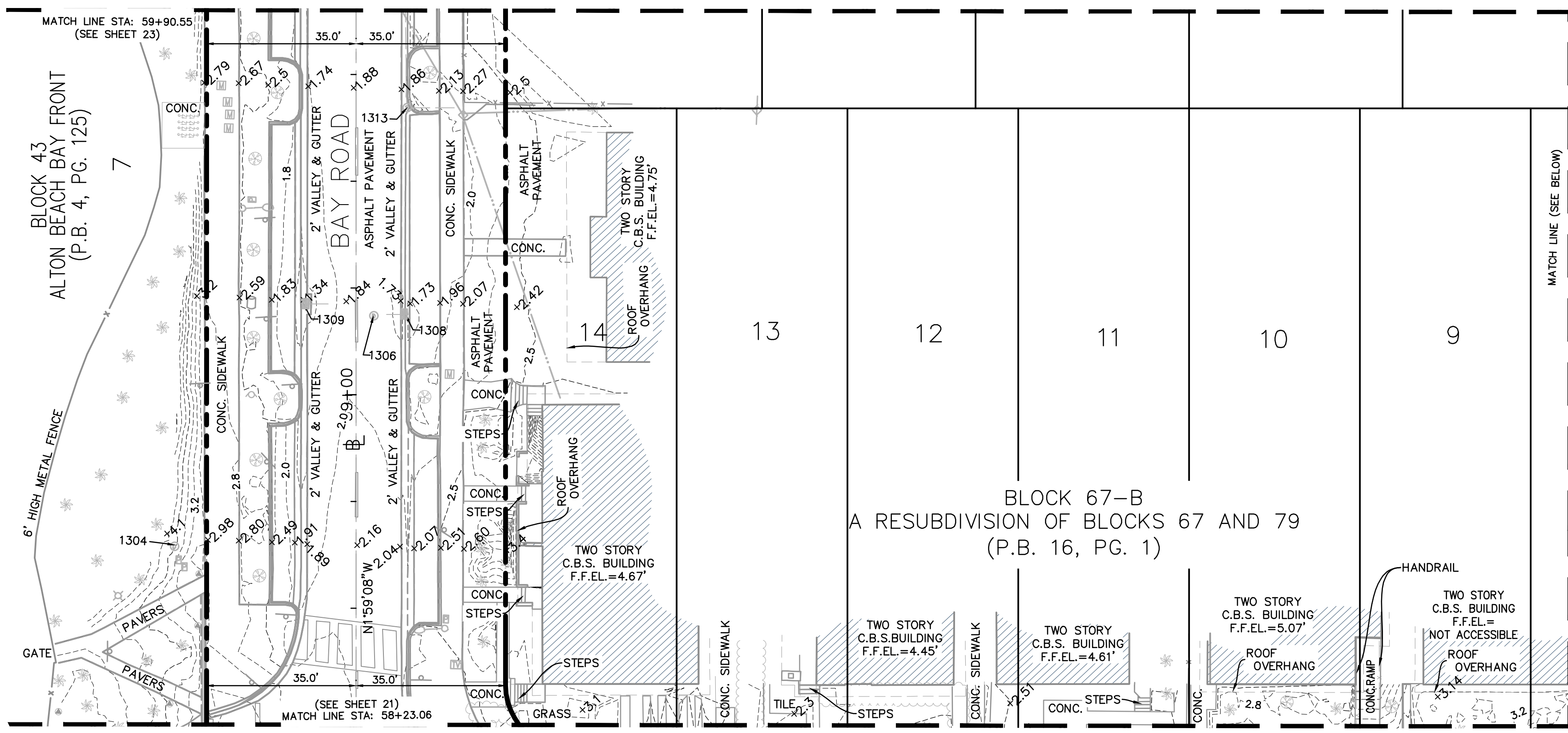
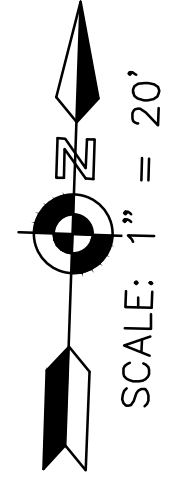
BLOCK 43
ALTON BEACH BAY FRONT
(P.B. 4, PG. 125)



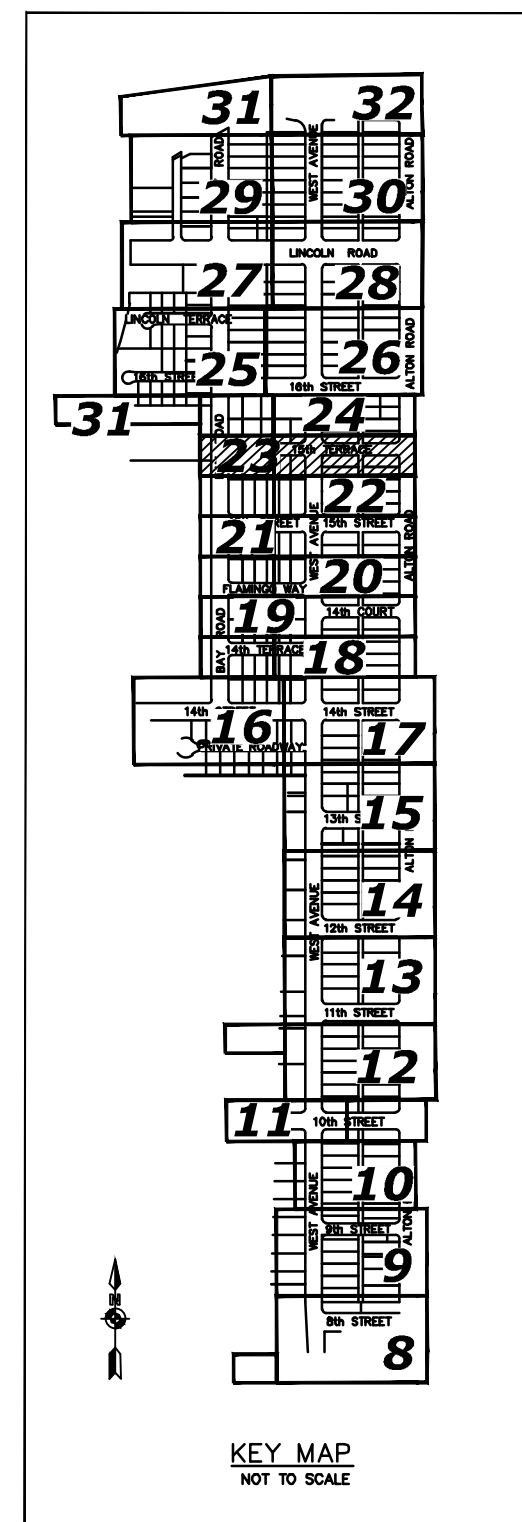
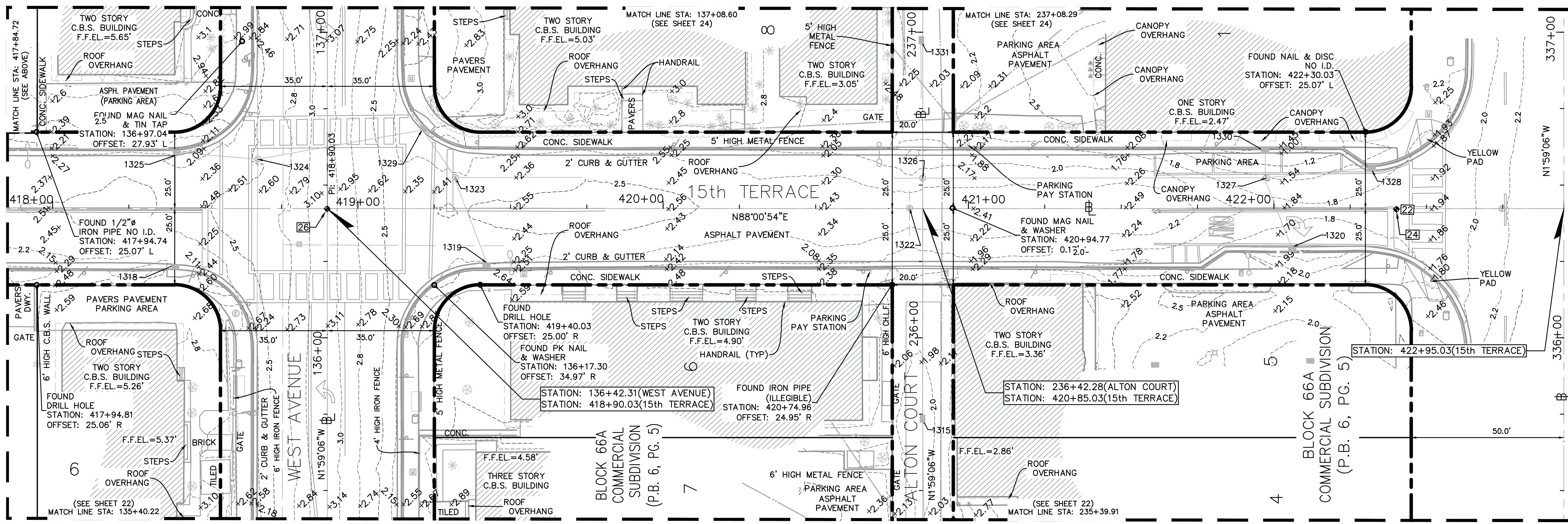
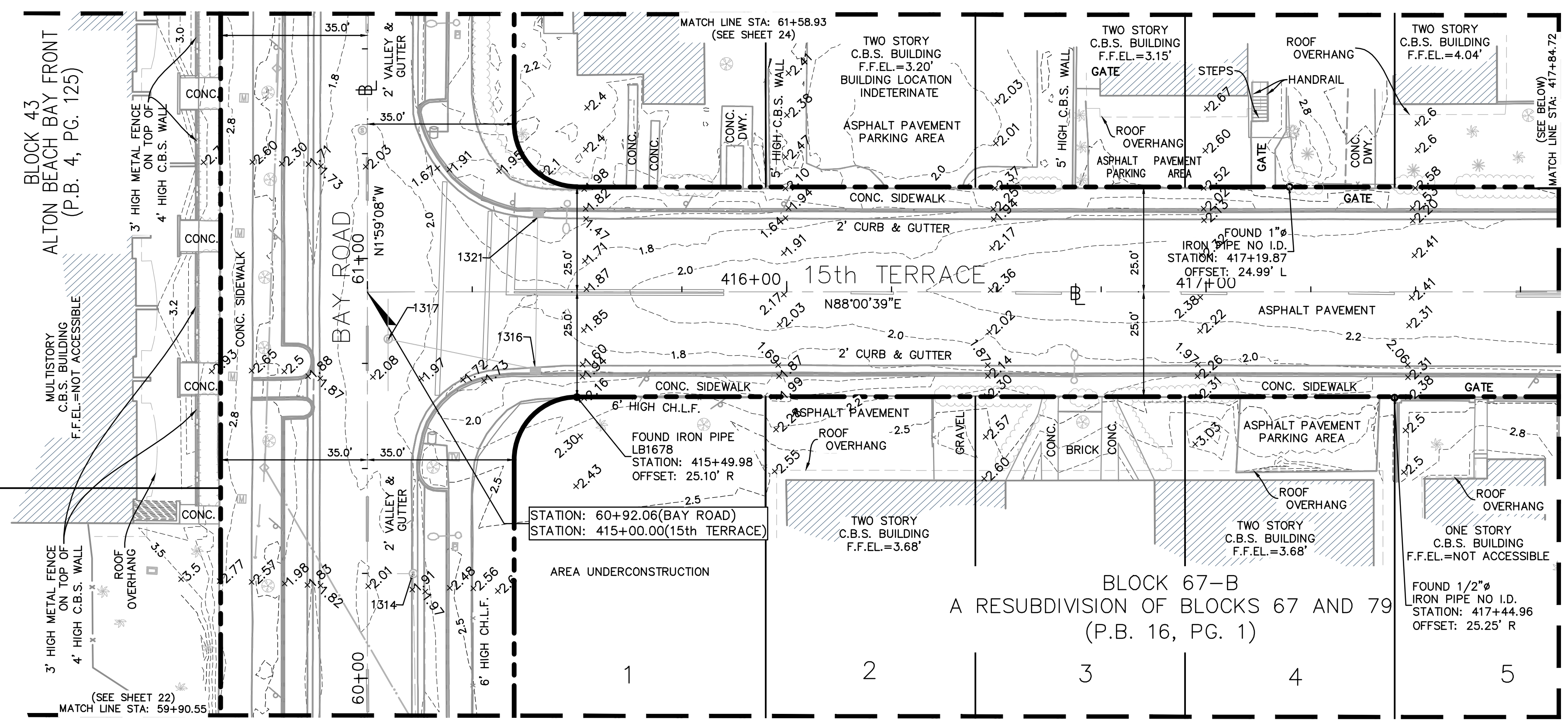
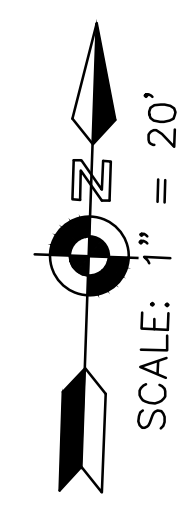
BLOCK 79-A
A RESUBDIVISION OF BLOCKS 67 AND 79
(P.B. 16, PG. 1)



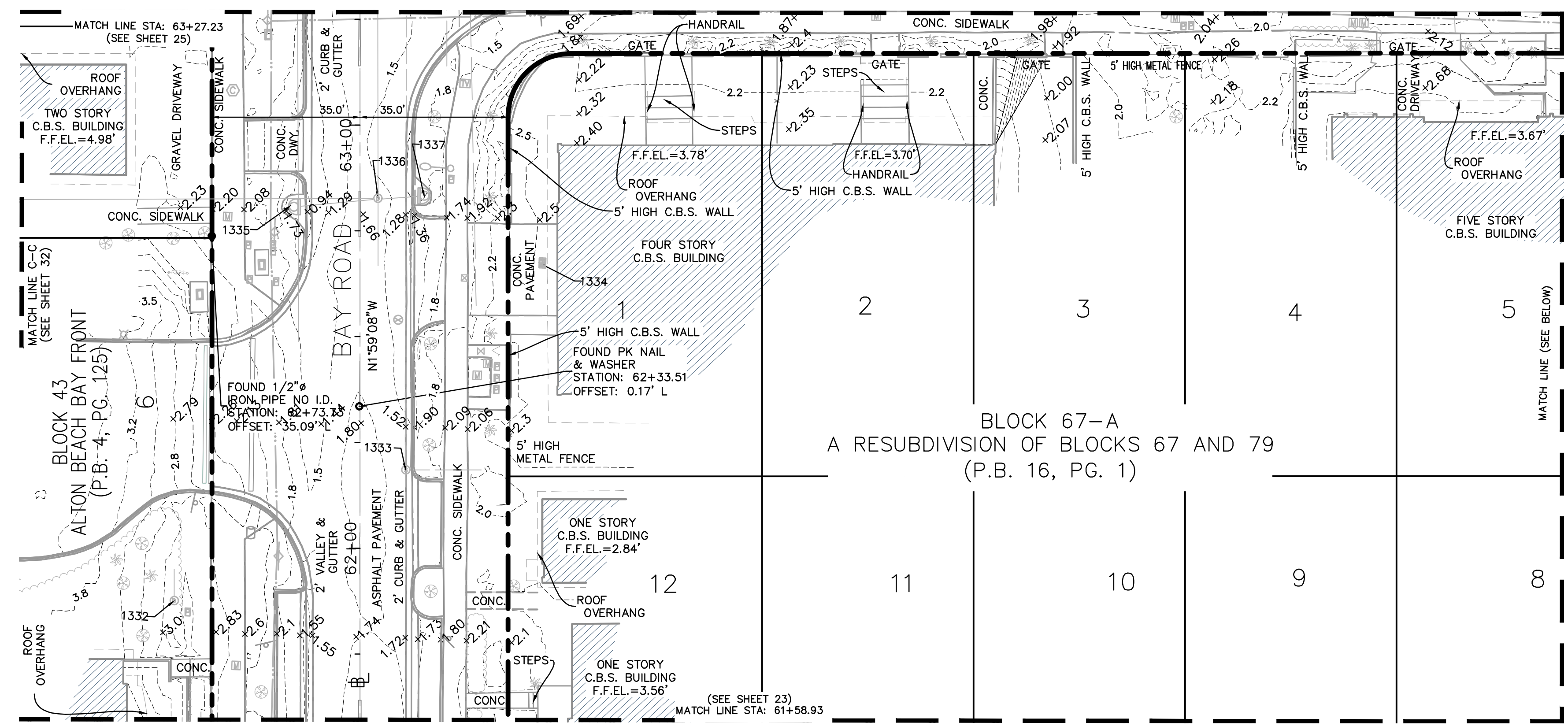
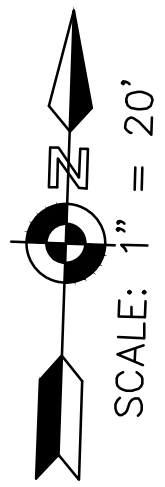
NO.	DATE	REVISION	APP'D. BY
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1	10/10/2017	REVIEW COMMENT (LONGITUDE SURVEYORS)	MCH



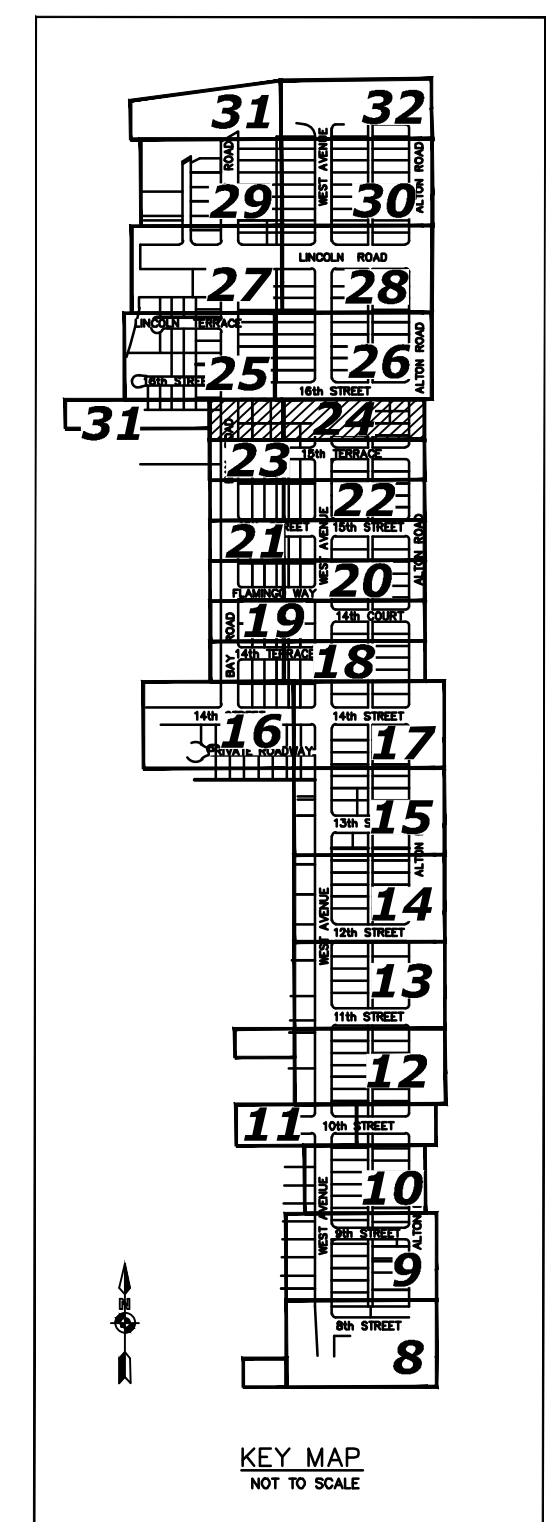
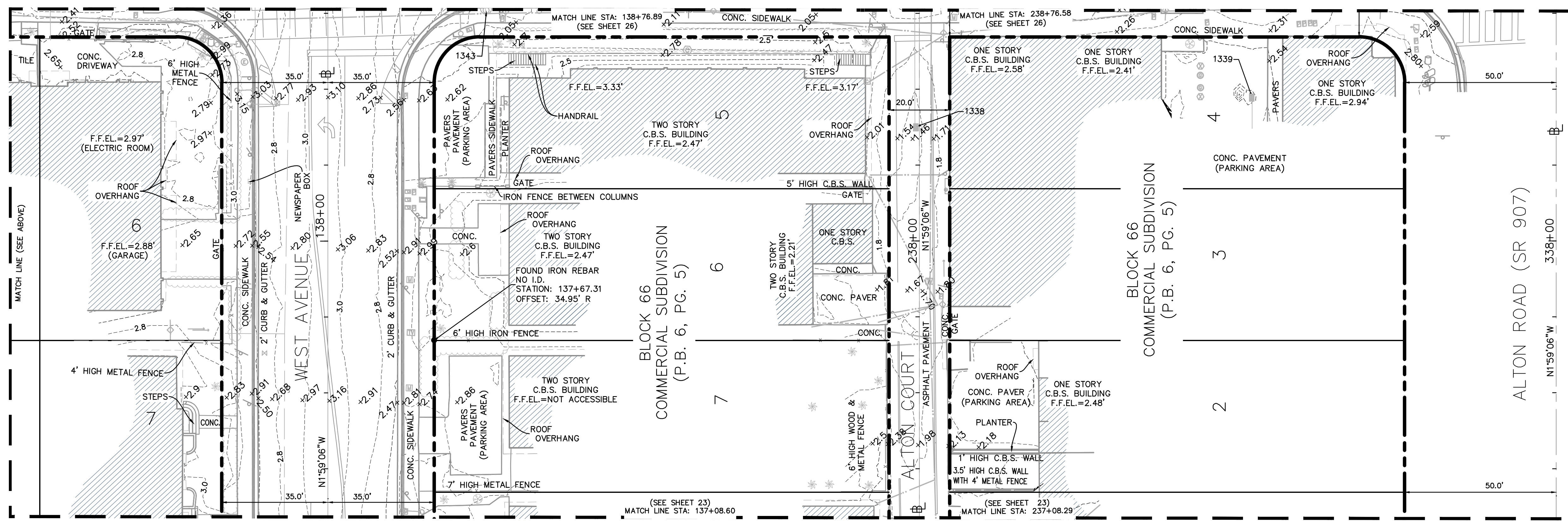
NO.	DATE	REVISION	APP'D. BY
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1	10/10/2017	REVIEW COMMENT (LONGITUDE SURVEYORS)	MCH



NO.	DATE	REVISION	APP'D. BY
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1	10/10/2017	REVIEW COMMENT (LONGITUDE SURVEYORS)	MCH

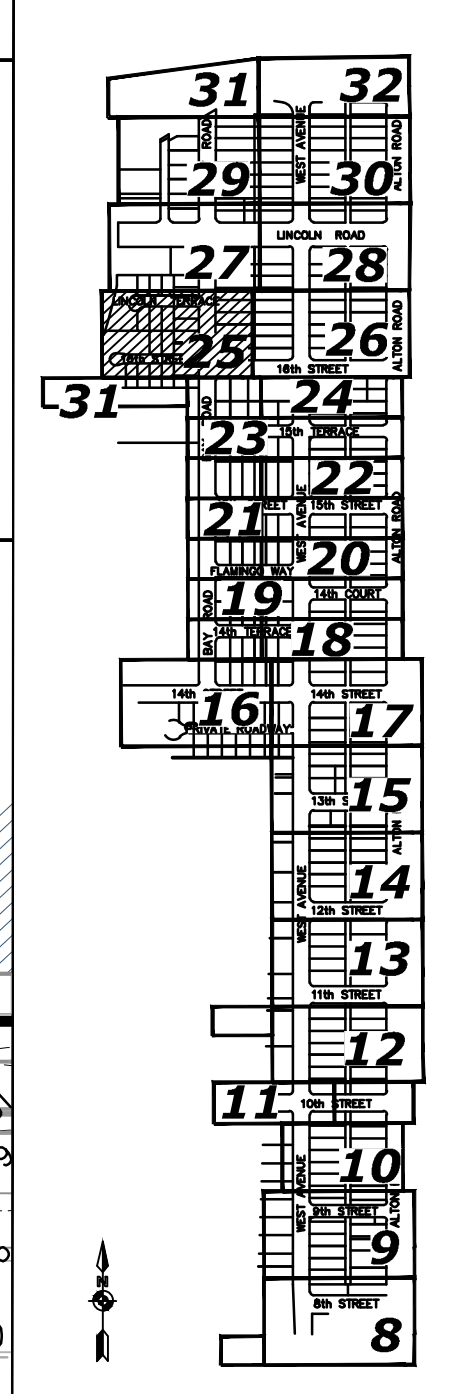
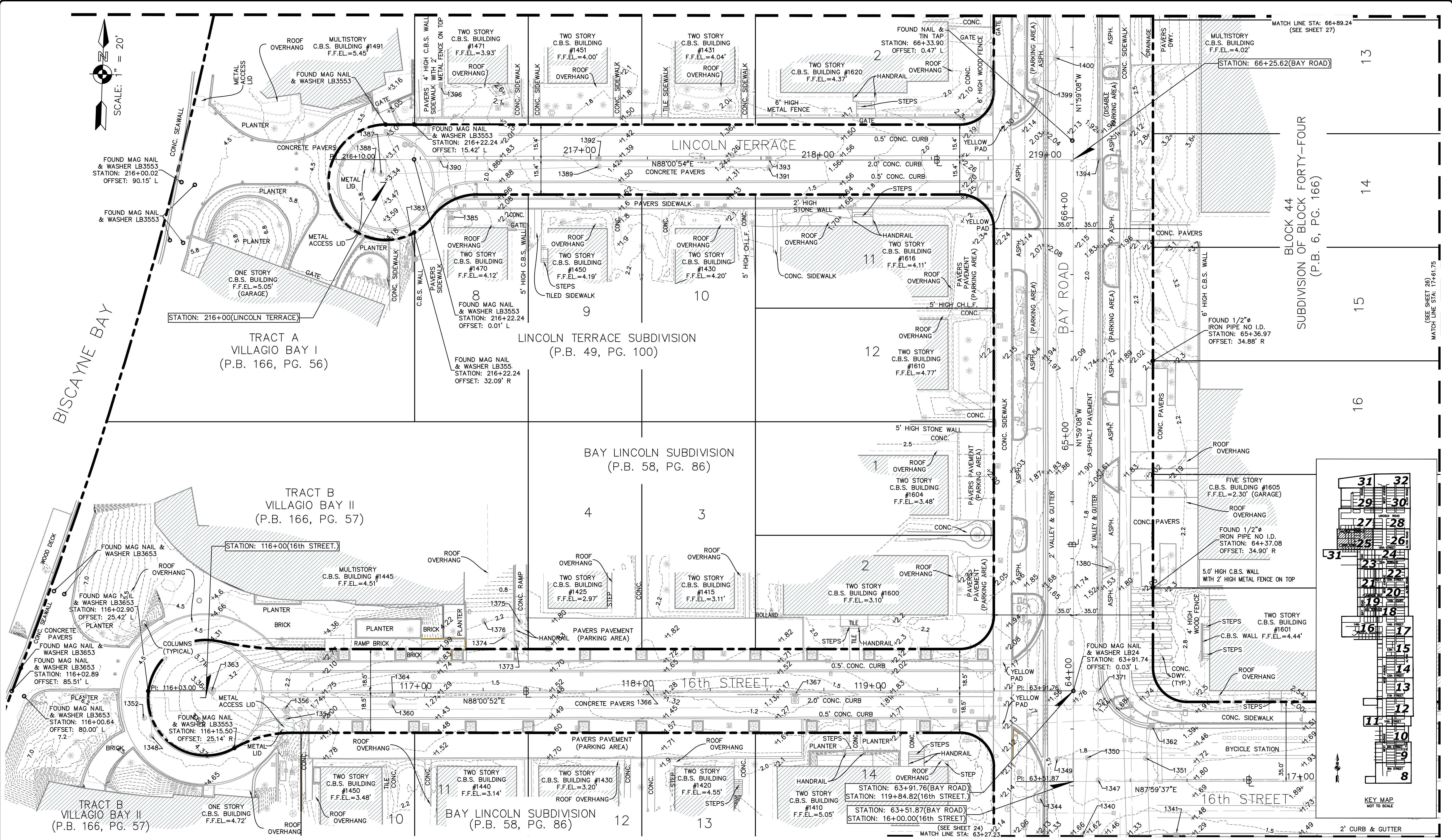
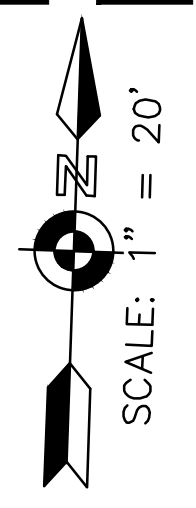


BLOCK 67-A
A RESUBDIVISION OF BLOCKS 67 AND 79
(P.B. 16, PG. 1)



KEY MAP
NOT TO SCALE

NO.	DATE	REVISION	APP'D. BY
5			
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1	10/10/2017	REVIEW COMMENT (LONGITUDE SURVEYORS)	MCH



MIAMI BEACH
PUBLIC WORKS DEPARTMENT
1700 CONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

NEIGHBORHOOD: WEST AVENUE
TITLE: TOPOGRAPHIC SURVEY

MASER
CONSULTING, P.A.
8290 N.W. 64th Street
Miami, FL 33166
Phone: 305.597.9701
Fax: 305.597.9702

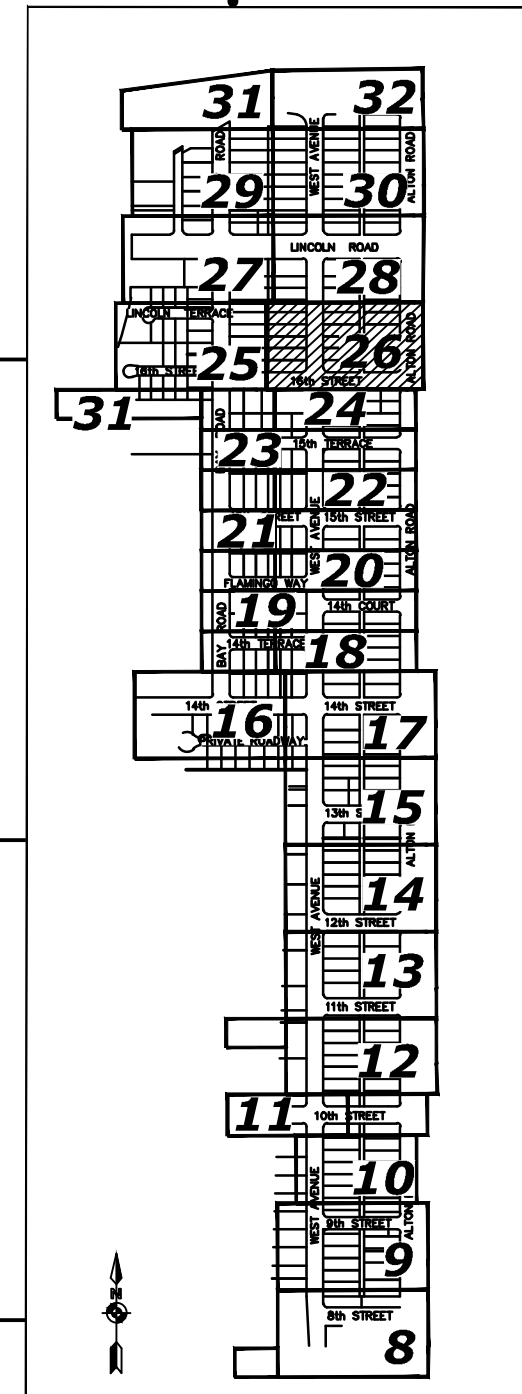
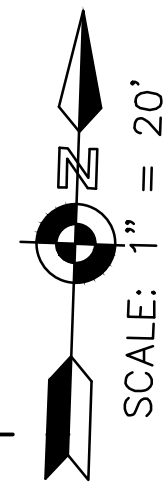
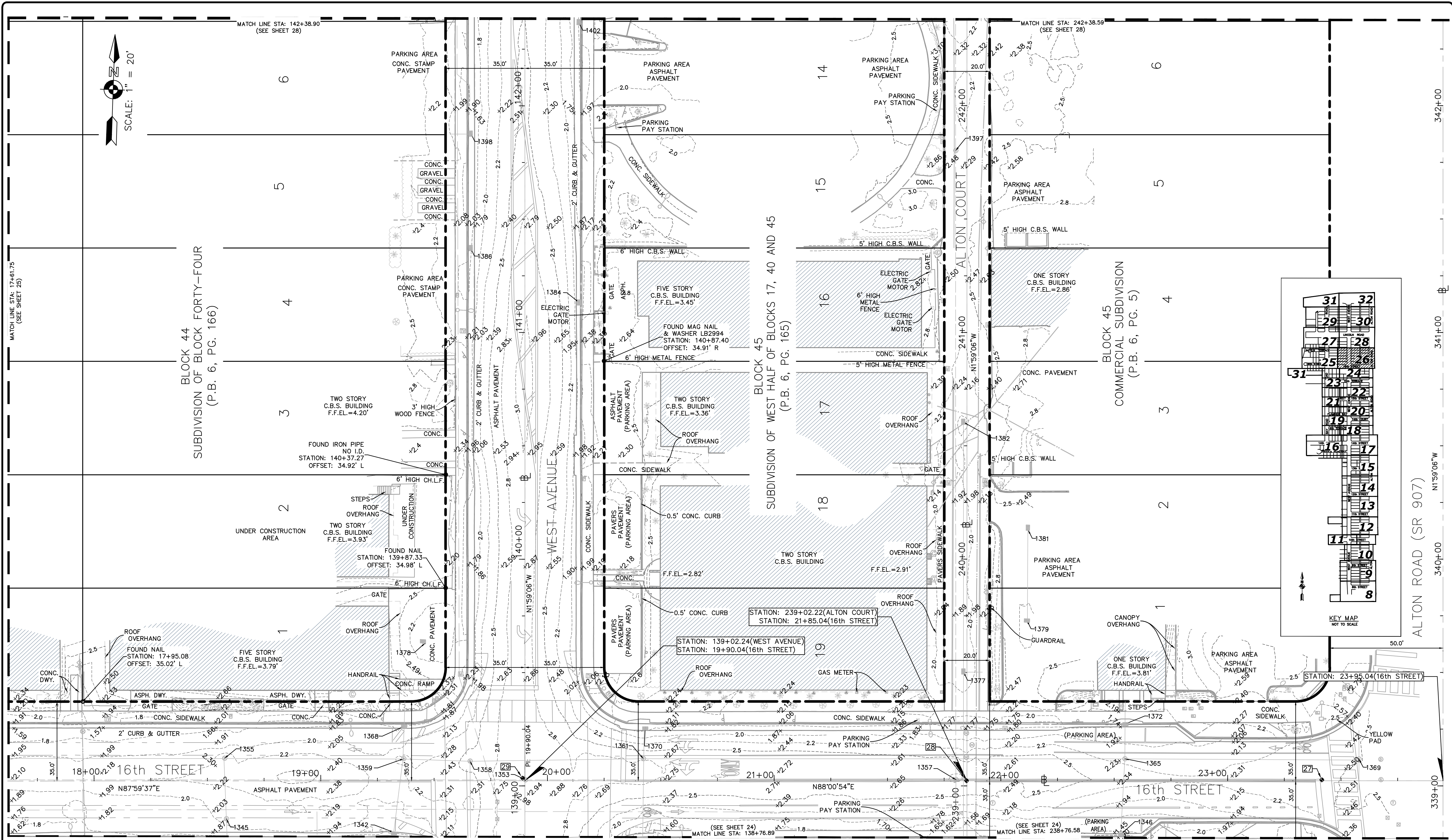
CITY MANAGER: JIMMY L. MORALES
PUBLIC WORKS DIRECTOR: ERIC T. CARPENTER, P.E.
CITY ENGINEER: BRUCE A. MOWRY, Ph.D., P.E.

ENGINEER OF RECORD: ...
DESIGN ENGINEER: ...
DRAWN BY: M.CH, K.B, Z.C.P
CHECKER: Z.C.P
SCALE: 1" = 20' (AT 22"x34")

THIS DOCUMENT CONSISTS OF 32 SHEETS AND EACH SHEET SHALL NOT BE CONSIDERED FULL, VALID AND COMPLETE UNLESS ATTACHED TO THE OTHERS.

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1	10/10/2017	REVIEW COMMENT (LONGITUDE SURVEYORS)	MCH
NO.	DATE	REVISION	APP'D. BY

NOT A FIELD BOUNDARY SURVEY
File Path: R:\Projects\2015\15400182A City of Miami Beach\001 West Ave\Survey\dwg
File Name: SM-2017(West Avenue).dwg
Survey Reference:
Field Book: AS NOTED Page: AS NOTED Work Order: N/A
Date: 05/10/2017 Sheet: 25 of 32 Drawing: EC-25



MIAMI BEACH
PUBLIC WORKS DEPARTMENT
1700 CONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

NEIGHBORHOOD: WEST AVENUE
TITLE: TOPOGRAPHIC SURVEY

MASER
CONSULTING P.A.
8290 N.W. 64th Street
Miami, FL 33166
Phone: 305.597.9701
Fax: 305.597.9702

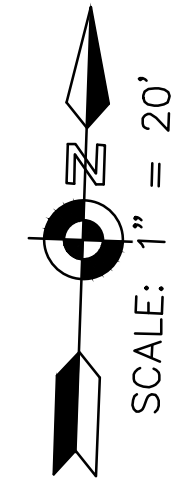
CITY MANAGER: JIMMY L. MORALES
PUBLIC WORKS DIRECTOR: ERIC T. CARPENTER, P.E.
CITY ENGINEER: BRUCE A. MOWRY, Ph.D., P.E.

ENGINEER OF RECORD: ...
DESIGN ENGINEER: ...
DRAWN BY: M.C.H., K.B., Z.C.P.
CHECKER: Z.C.P.
SCALE: 1" = 20' (AT 22"x34")

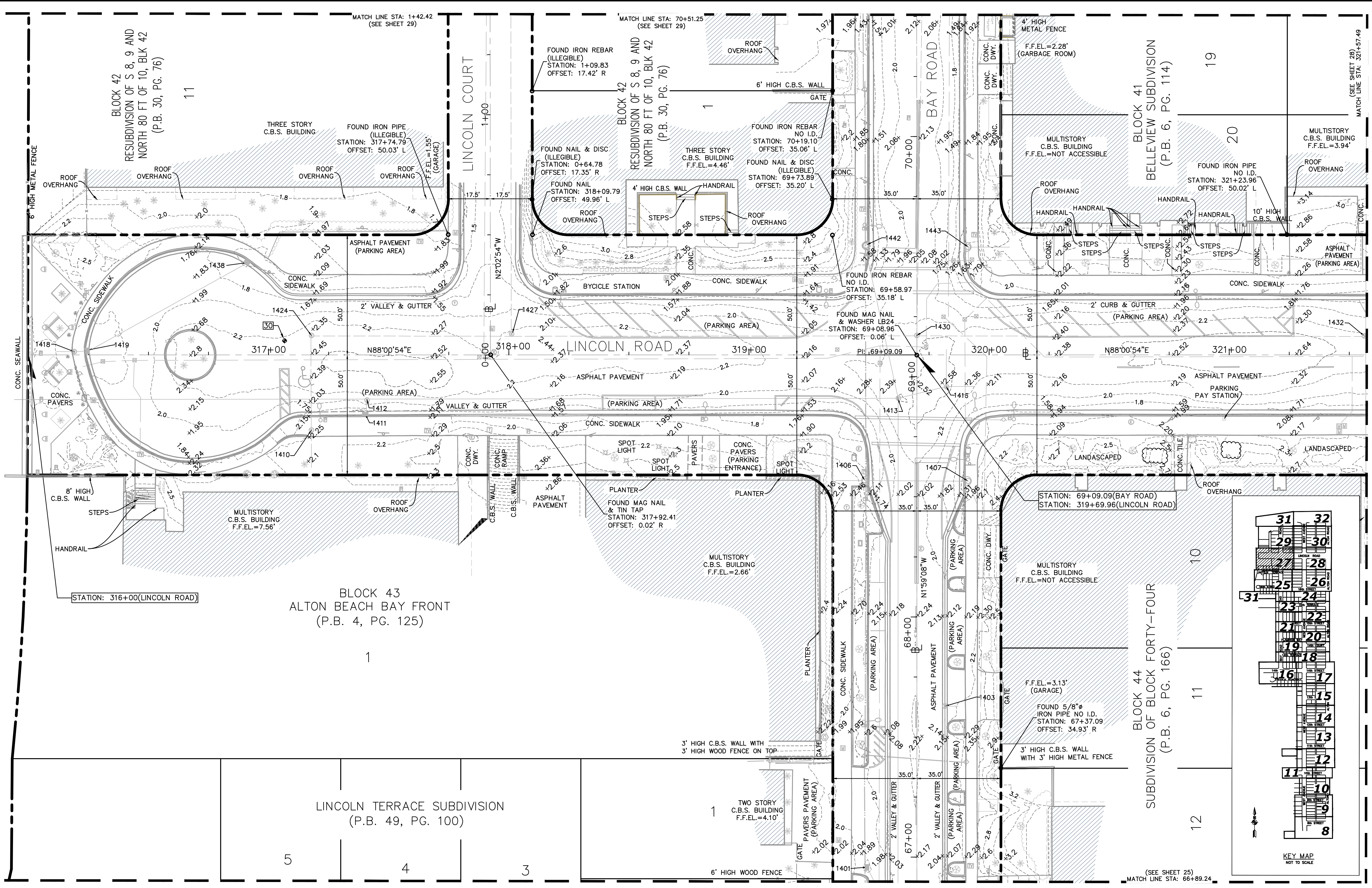
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1	10/10/2017	REVIEW COMMENT (LONGITUDE SURVEYORS)	MCH

NOT A FIELD BOUNDARY SURVEY
File Path: R:\Projects\2015\15400182A City of Miami Beach\001 West Ave\Survey\dwg
File Name: SM-2017(West Avenue).dwg
Survey Reference:
Field Book: AS NOTED Page: AS NOTED Work Order: N/A
Date: 05/10/2017 Sheet: 26 of 32 Drawing: EC-26



SCALE: 1" = 20'



BISCAYNE BAY

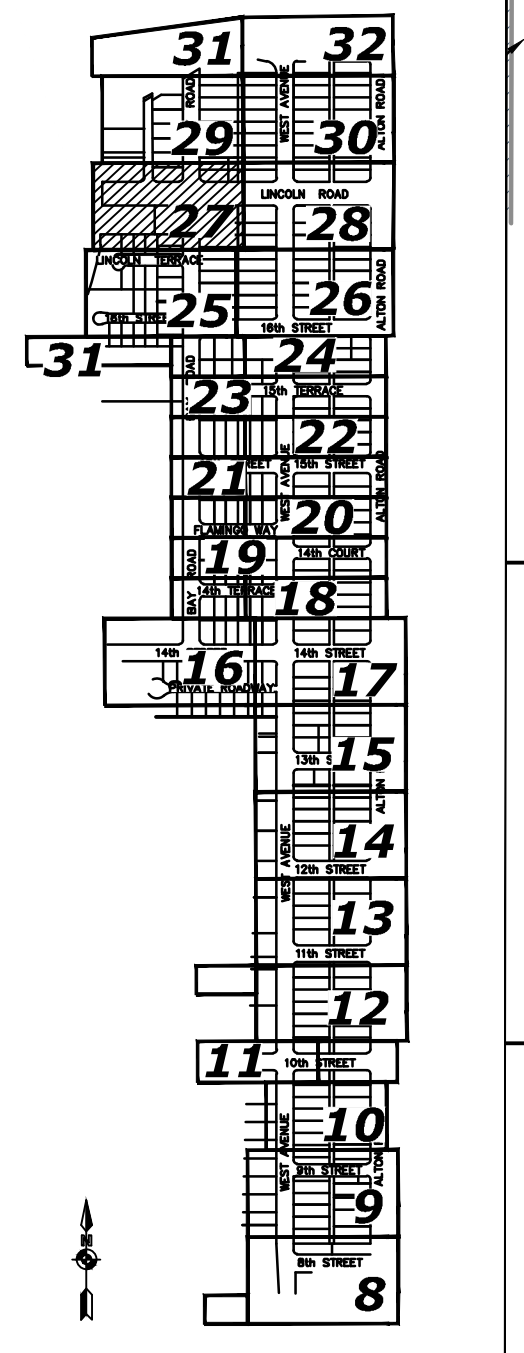
BLOCK 42
RESUBDIVISION OF S. 8, 9 AND
NORTH 80 FT OF 10, BLK 42
(P.B. 30, PG. 76)

BLOCK 43
ALTON BEACH BAY FRONT
(P.B. 4, PG. 125)

LINCOLN TERRACE SUBDIVISION
(P.B. 49, PG. 100)

BLOCK 44
SUBDIVISION OF BLOCK FORTY-FOUR
(P.B. 6, PG. 166)

BLOCK 41
BELLEVUE SUBDIVISION
(P.B. 6, PG. 114)



KEY MAP
NOT TO SCALE

MIAMI BEACH
PUBLIC WORKS DEPARTMENT
1700 CONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

NEIGHBORHOOD: WEST AVENUE
TITLE: TOPOGRAPHIC SURVEY

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8290 N.W. 64th Street
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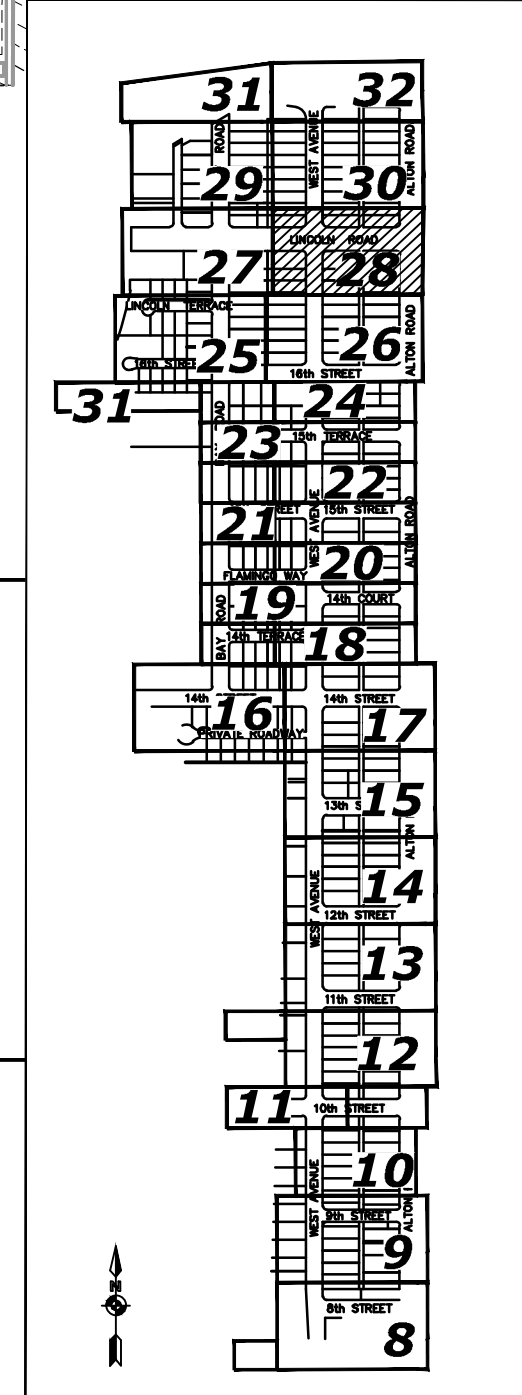
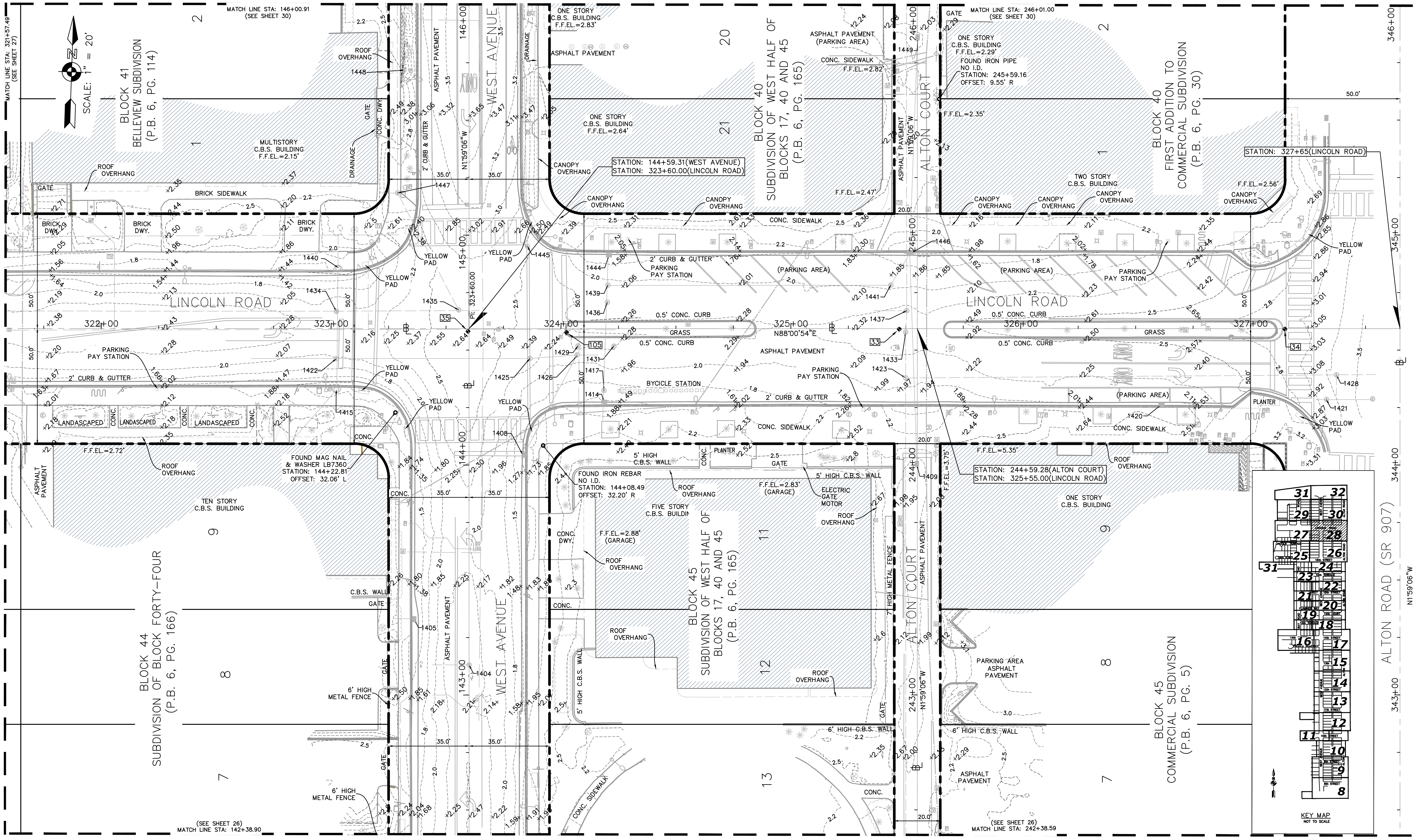
CITY MANAGER: JIMMY L. MORALES
PUBLIC WORKS DIRECTOR: ERIC T. CARPENTER, P.E.
CITY ENGINEER: BRUCE A. MOWRY, Ph.D., P.E.

ENGINEER OF RECORD: ...
DESIGN ENGINEER: ...
DRAWN BY: M.CH, K.B, Z.C.P
CHECKER: Z.C.P
SCALE: 1" = 20' (AT 22"X34")

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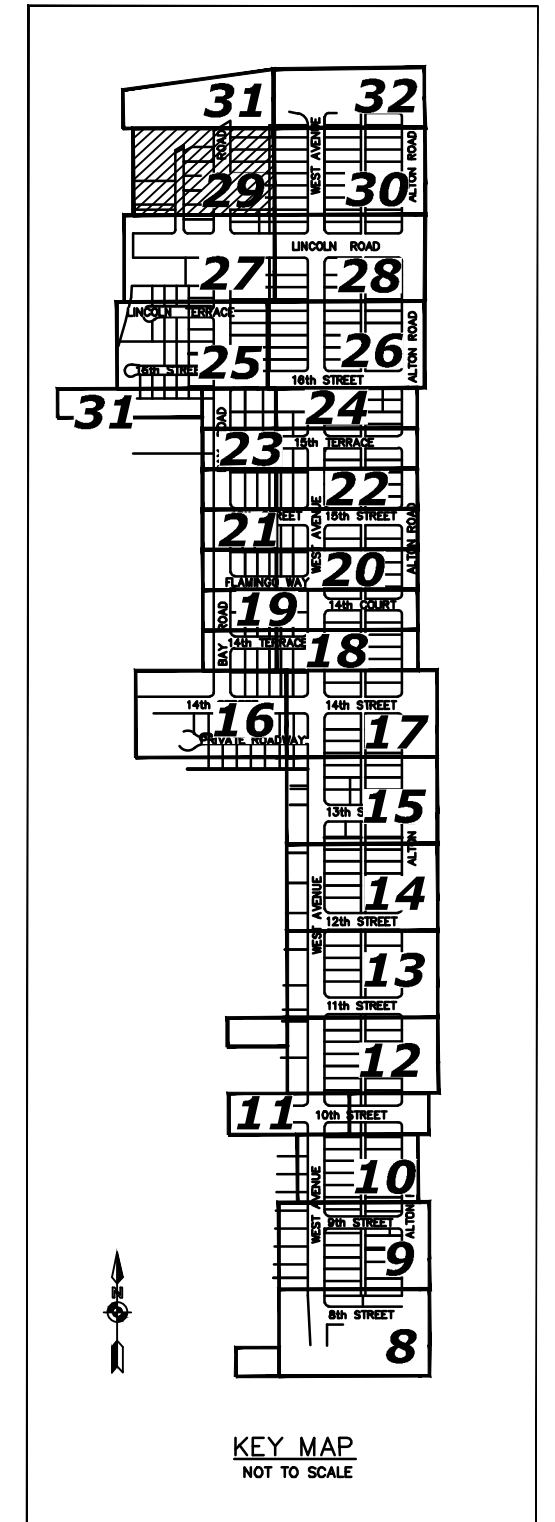
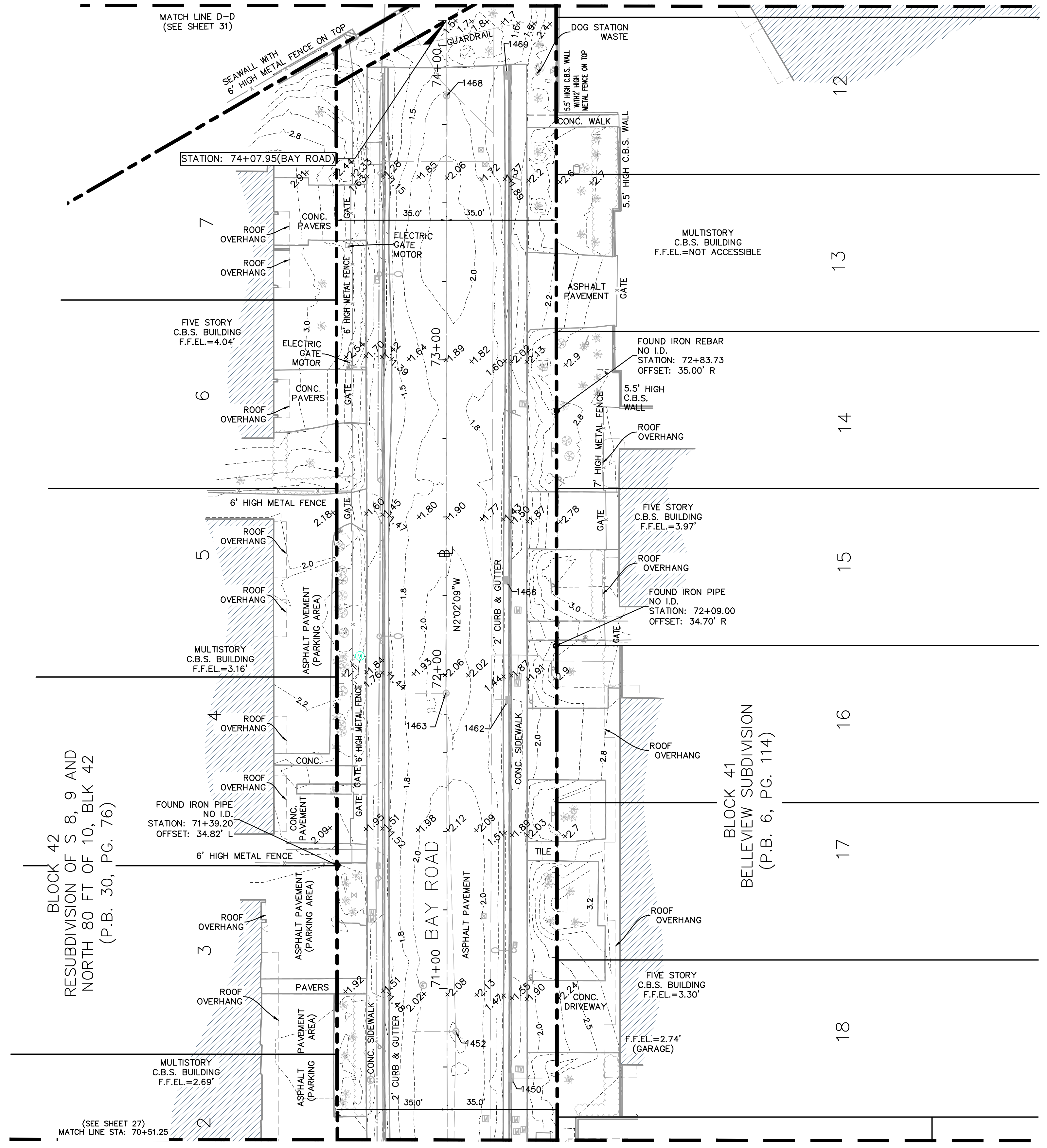
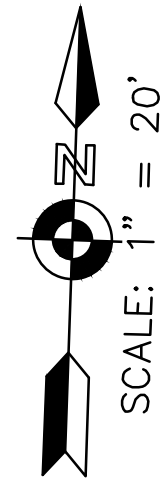
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1	10/10/2017	REVIEW COMMENT (LONGITUDE SURVEYORS)	MCH
NO.	DATE	REVISION	APP'D. BY

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File Path: R:\Projects\2015\15400182A City of Miami Beach\001 West Ave\Survey\dwg
File Name: SM-2017(West Avenue).dwg
Survey Reference:
Field Book: AS NOTED Page: AS NOTED Work Order: N/A
Date: 05/10/2017 Sheet: 27 of 32 Drawing: EC-27

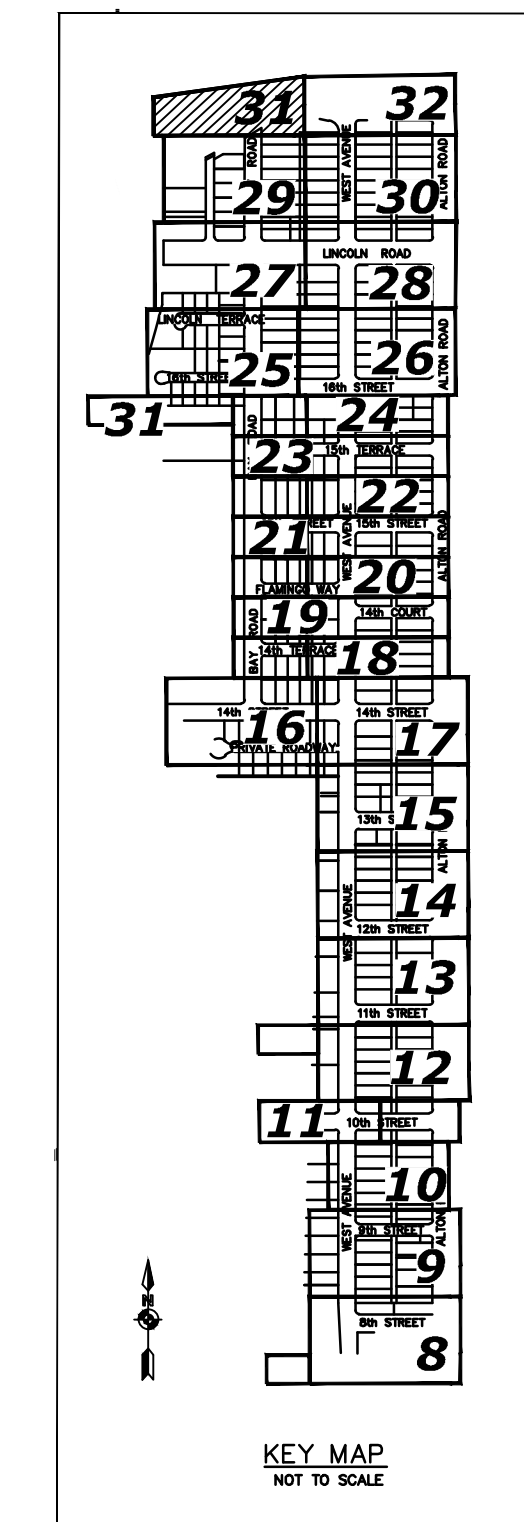
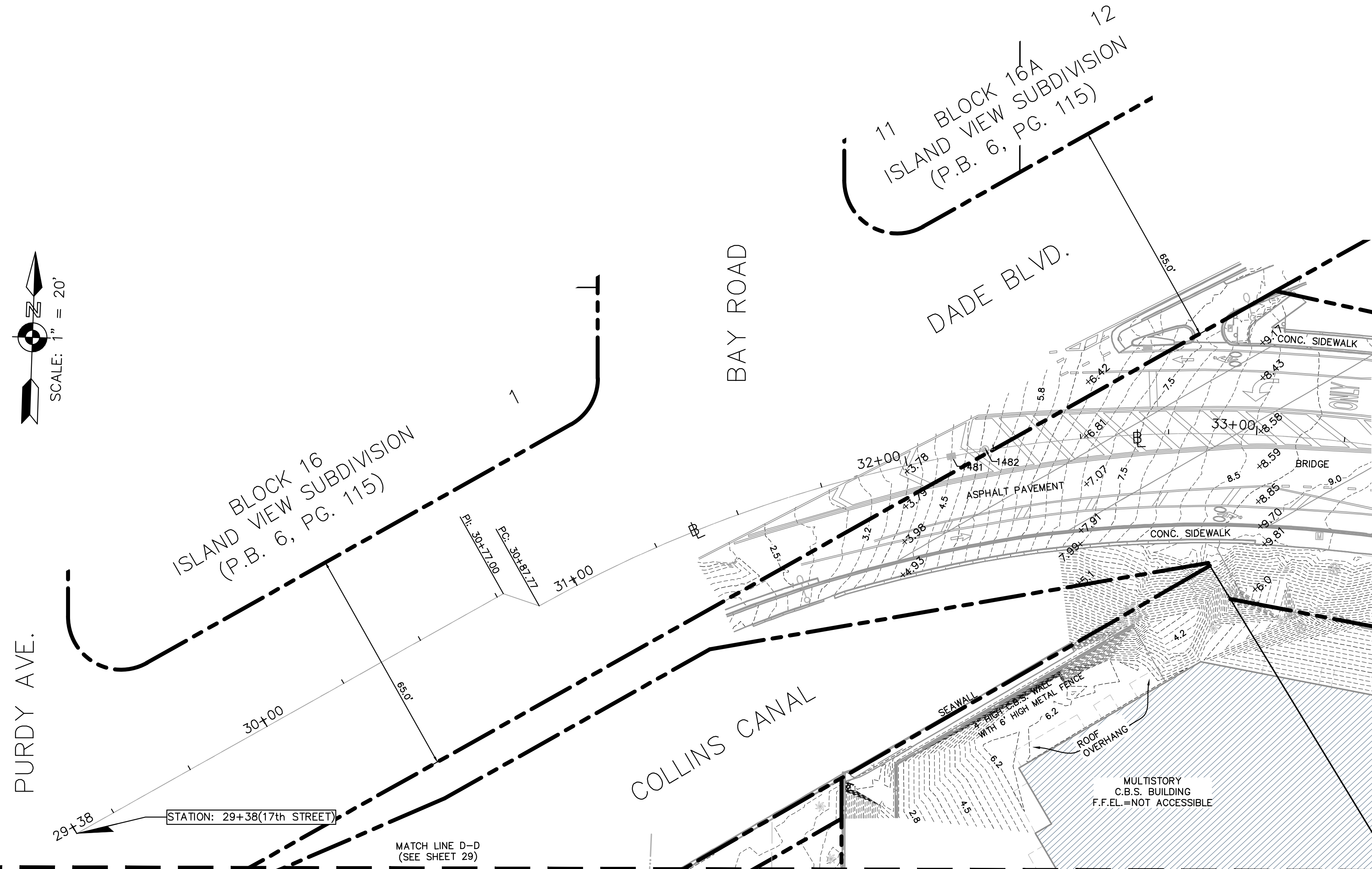


KEY MAP
NOT TO SCALE

NO.	DATE	REVISION	APP'D. BY
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1	10/10/2017	REVIEW COMMENT (LONGITUDE SURVEYORS)	MCH



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BISCAYNE BAY

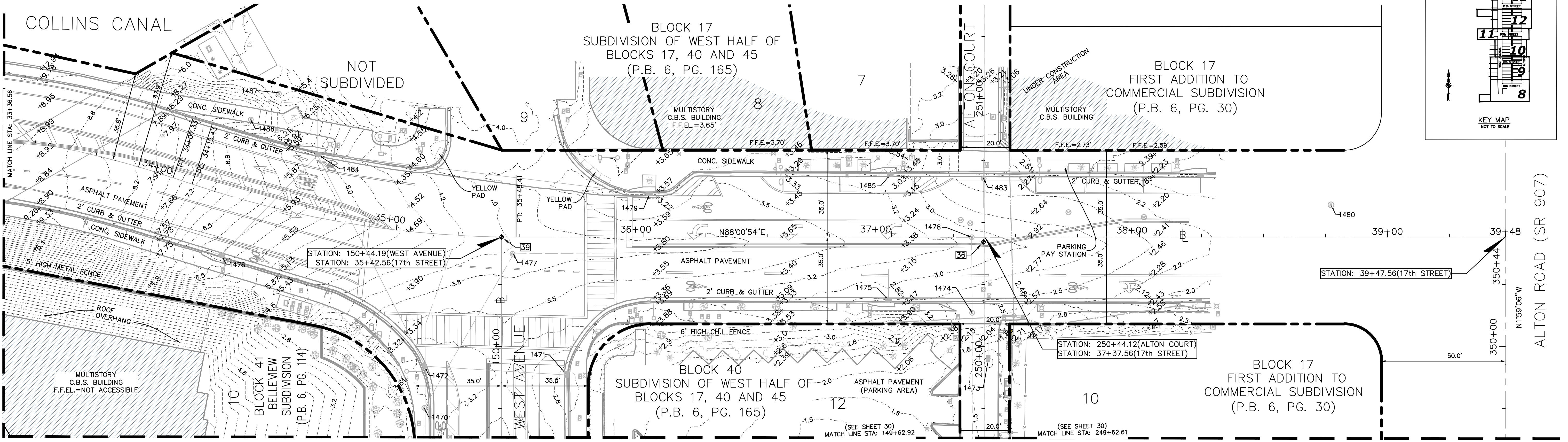
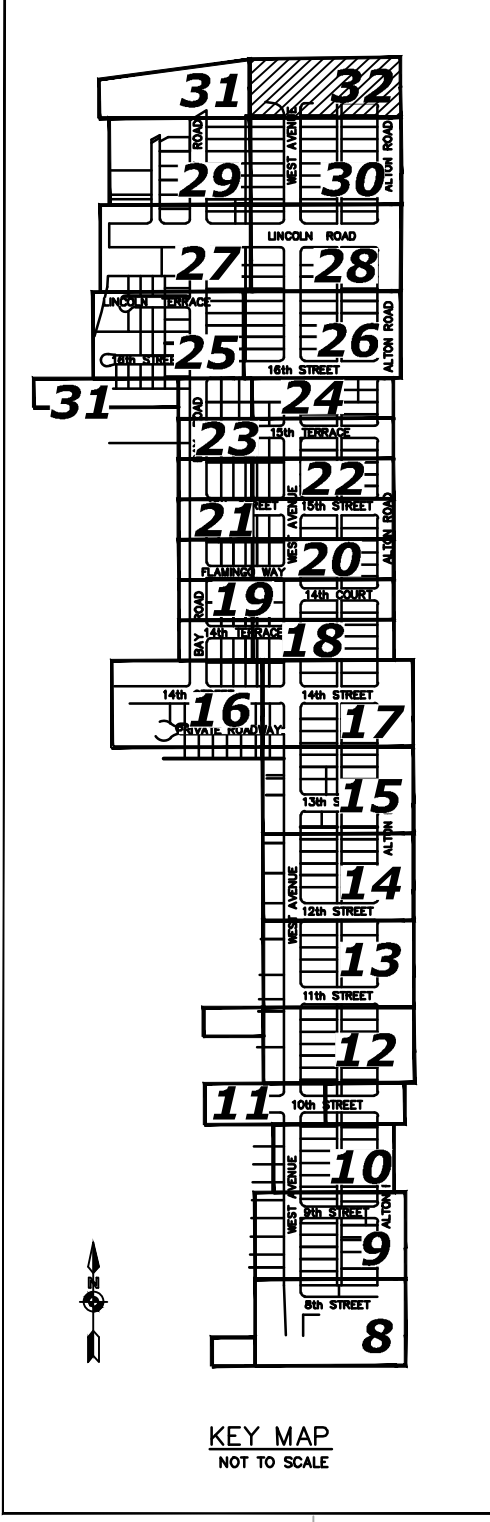
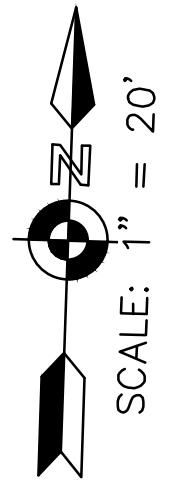
OUTFALL
TOP OF SEAWALL
ELEV.=4.91'
INV. ELEV.=-1.67'
(E) (24" PVC TYPE)

SEAWALL
24" PVC PIPE

STORM BOX
INV. ELEV.=-2.21'
(E) (12" PVC PIPE)
INV. ELEV.=-1.64'
(W) (24" PVC PIPE)
-5.84' BOTTOM

12" PVC PIPE

MATCH LINE C-C
(SEE SHEET 24)



MIAMI BEACH
PUBLIC WORKS DEPARTMENT
1700 CONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

NEIGHBORHOOD: WEST AVENUE
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CHECKER: Z.C.P.
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File Name: SM-2017(West Avenue).dwg
Survey Reference:
Field Book: AS NOTED Page: AS NOTED Work Order: N/A
Date: 05/10/2017 Sheet: 32 of 32 Drawing: EC-32