OC PUBLIC WORKS DEPARTMENT

JAMES TREADAWAY, DIRECTOR

KEVIN HILLS, COUNTY SURVEYOR

SUNSET CHANNEL (C07)

CHANNEL REHABILITATION

LOCATION MAP

SENIOR LAND SURVEYOR'S CERTIFICATE:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 17TH DAY OF NOVEMBER, 2021.

MICHAEL KUBISTY, PLS. SENIOR LAND SURVEYOR

LICENSED LAND SURVEYOR MICHAEL KUBISTY No. 8036 STATE OF CALIFORNIA

DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 17TH DAY OF NOVEMBER, 2021.

WADE WEAVER, PLS. DEPUTY COUNTY SURVEYOR

LICENSED LAND SURVEYOR WADE D. WEAVER No. 4337 STATE OF CALIFORNIA

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

N.T.S

TOPOGRAPHIC MAPPING PROJECT

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT, AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS CGPS STATIONS FVPK & SACY BEING NORTH 7°50'54" EAST AS DERIVED FROM THE COORDINATES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) ALONG WITH DATA SHEETS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

HORIZONTAL DATUM

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT.

ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCES MULTIPLY GRID BY A COMBINED FACTOR OF 1.00001778.

THIS COMBINATION FACTOR WAS DERIVED AT PT #905
N=2211887.372'
E=6016881.664'

ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

VERTICAL DATUM

O.C.S. BM. HB-226-72 ELEV. = 12.878' YEAR LEVELED: 2005

NAVD 1988 (O.C.S. 1995 ADJUSTMENT)

DESCRIPTION: DESCRIBED BY OCS 2002 – FOUND 3 3\4" OCS ALUMINUM BENCHMARK DISK STAMPED "HB-226-72", SET IN THE NORTHWEST CORNER OF A 4 FT. BY 8 FT. CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE NORTHEAST CORNER OF THE INTERSECTION OF BOLSA CHICA STREET AND HEIL AVENUE, 0.1 MILES NORTHERLY OF THE CENTERLINE OF HEIL AVENUE AND 49 FT. EASTERLY OF THE CENTERLINE OF BOLSA CHICA STREET MONUMENT IS SET LEVEL WITH THE SIDEWALK.

NOTES

THE SURVEY INFORMATION SHOWN HEREON IS TO BE USED FOR TOPOGRAPHIC RELATIONSHIPS ONLY AND IS NOT INTENDED FOR LAND ACQUISITION OR BOUNDARY PURPOSES.
PARCELS SHOWN WITHOUT BEARING AND DISTANCES ARE FOR GRAPHICAL PURPOSES AND ARE PENDING RECEIPT OF TITLE REPORT.

SHEET INDEX

SHEET NO.	DESCRIPTION
SHEET 1	TITLE SHEET
SHEETS 2–11	BOUNDARY MAP
SHEET 12	ALIGNMENT SHEET
SHEETS 13–26	TOPOGRAPHIC MAP

PURPOSE OF SURVEY

TO PROVIDE TOPOGRAPHY, RIGHT OF WAY & BOUNDARY INFORMATION, AS WELL AS CONSTRUCTION ALIGNMENTS FOR THIS CHANNEL PROJECT.

#	DATE	ITEM
1	11-18-21	FIX R/W CURVES
2	01-05-22	ADD WALL HEIGHTS

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS/ENGINEERING SERVICES
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
CHANNEL REHABILITATION

TITLE SHEET

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY: 08/06/2020		BY: T.LOGREEN & PARTY
MAPPING		BY: K.AHMED
OFFICE CHECK		BY: M KUBISTY,PLS.
FIELD CHECK		BY: T.LOFGREEN
SCALE: Custom	W.O. #EF21470	FILE #1920PW-PM0004
FILE: SUNSET CHANNEL_TOPO_2022.DWG		

SHEET NO. 1 of 26

MONUMENT NOTES

1. FOUND GEAR SPIKE AND 1 1/2" WASHER STAMPED "LS 5411" PER (R30) FLUSH IN AC, ACCEPTED AS CENTERLINE INTERSECTION OF EDINGER AVENUE & CLUBHOUSE LANE.
2. FOUND R.R. SPIKE WITH PUNCHMARK PER (R7) DN. 0.40' IN A.C. ACCEPTED AS CENTERLINE INTERSECTION OF EDINGER AVE & GRAHAM STREET SOUTH.
3. FOUND 3" PUNCHED BRASS CAP STAMPED HB CITY SURVEYORS PER (R28) DOWN 1.3' IN WELL MON, ACCEPTED AS CENTERLINE INTERSECTION OF HEIL AVENUE AND GRAHAM STREET. ACCEPTED AS THE CENTER OF SECTION 21, T5S, R11W, SB.B&M.
4. FOUND GEAR SPIKE W/TAG, STAMPED "LS 5411", (NO REF) FLUSH IN A/C (NO REF), N87°08'06"W 0.32' FROM CENTERLINE OF EDINGER AVENUE ALSO BEING THE N'LY 1/16TH CORNER OF THE NW 1/4, SECTION 21, T5S,R11W, SB.B&M.
5. FOUND 2" IP AND TAG AND BRASS NAIL STAMPED CITY OF HB RCE 10655 PER (R27) DN 1.1' IN WELL MON. ACCEPTED AS CENTERLINE INTERSECTION OF EDINGER AVENUE & BOLSA CHICA STREET ALSO BEING THE NORTH EAST CORNER OF SECTION 20, T5S, R11W, SB.B&M.
6. FOUND IRON ROD NO PUNCH PER (R26) DN 1.45' IN WELL MON. ACCEPTED AS CENTERLINE INTERSECTION OF HEIL AVENUE & BOLSA CHICA STREET. ACCEPTED AS EAST 1/4 CORNER OF SECTION 20, T5S, R11W, SB.B&M.
7. FOUND GEAR SPIKE AND 1 1/2" WASHER STAMPED CITY OF HB PER (R25) FLUSH IN AC, ACCEPTED AS THE CENTERLINE INTERSECTION OF SAYBROOK LANE & HEIL AVENUE. ACCEPTED AS S'LY 1/16TH CORNER OF THE NW 1/4 OF SECTION 20, T5S, R11W, SB.B&M.
8. FOUND 1/2" SQUARE HEAD SPIKE WITH PUNCH ONLY PER (R24) FLUSH IN AC. ACCEPTED AS CENTERLINE INTERSECTION OF SAYBROOK LANE & EDINGER AVENUE. ACCEPTED AS THE N'LY 1/16TH CORNER OF THE NW 1/4 OF SECTION 20,T5S, R11W, SB.B&M.
9. FOUND PUNCHED BOAT SPIKE AND TAG STAMPED RCE 14814 DN .25' IN AC(NO REF), ACCEPTED AS NORTH 1/4 CORNER OF SECTION 20,T5S, R11W, SB.B&M.
10. FOUND 3" PUNCHED BRASS CAP STAMPED HB CITY SURVEYORS PER (R22) DOWN .9' IN WELL MON, ACCEPTED AS CENTERLINE INTERSECTION OF HEIL AVENUE & ALGONQUIN STREET, ACCEPTED AS THE CENTER OF SECTION 20, T5S, R11W, SB.B&M.
11. FOUND GEAR SPIKE AND 1 1/2" WASHER STAMPED CITY OF HB PER (R23) FLUSH IN AC, 0.18' N89°46'60"W OF E'LY LINE OF THE SE 1/4, NW 1/4, SECTION 21, T5S, R11W, SB.B&M.
12. FOUND 3/4" TAG ON CONC FENCE FOOTER STAMPED LS 2921 PER (R20) DN 1.2' IN DIRT 0.24' N89°45'34"W OF INTERSECTION OF N'LY RIGHT OF WAY OF O.C.F.C.D & W'LY RIGHT OF WAY OF SE 1/4, NW 1/4, SECTION 21, T5S, R11W, SB.B&M.
13. FOUND 3/4" IP AND TAG STAMPED LS 2921 UP 0.2' IN DIRT 0.29' N02°05'23"E OFF S'LY RIGHT OF WAY OF O.C.F.C.D PER (R20).
14. FOUND 2" IP AND TAG STAMPED LS 2921 DN 0.9' IN DIRT, ACCEPTED AS A POINT ON S'LY RIGHT OF WAY OF THE O.C.F.C.D PER (R20) AND NW CORNER OF (R20).
15. FOUND 3" IP WITH OCFCD TAG STAMPED RE 1555 R/W UP 0.50' IN DIRT(NO REF), 0.09' S0°32'47"W OF S'LY RIGHT OF WAY OF O.C.F.C.D (NO REF).
16. FOUND GEAR SPIKE AND WASHER STAMPED LS 6970 PER (R21) FLUSH IN AC, 0.09' S89°44'18"E OF W'LY LINE OF NW 1/4, NW 1/4, SECTION 21, T5S, R11W, SB.B &M.
17. FOUND RR SPIKE NO TAG DN 0.5' IN AC(NO REF), ACCEPTED AS A POINT ON W'LY LINE OF THE NE 1/4, NE 1/4, SECTION 20, T5S, R11W, SB.B &M.
18. FOUND 2 1/4" IP WITH 1 1/4" TAG AND FLATHEAD SCREW STAMPED "OCFCD RE 7188" RIGHT OF WAY FLUSH IN DIRT 0.06' N0°34'31"E OFF S'LY R/W OF O.C.F.C.D PER (R18).
19. FOUND HOLE ONLY IN TOP BLOCK WALL MISSING LT AND T, 0.27' S0°34'30"W OF S'LY RIGHT OF WAY OF O.C.F.C.D PER (R18).
20. FOUND LEAD TAG AND TACK STAMPED LS 2911 IN TOP BLOCK WALL, S0°34'30"W 0.15' OFF S'LY RIGHT OF WAY OF O.C.F.C.D PER (R18).
21. FOUND LEAD TAG AND TACK STAMPED LS 4861 FLUSH ON CONC FOOTING, 0.09' N89°45'28"W OFF W'LY LINE OF NW 1/4, NE 1/4, SECTION 20, R11W, T5S, SB.B&M.
22. FOUND 2" IP RCE 8348 DN 0.75' IN HB WELL MON IN LIEU OF SPIKE & WASHER PER (R19), ACCEPTED AS A POINT ON THE W'LY LINE OF THE E 1/2, NW 1/4, SECTION 20, T5S, R11W, SB.B&M.
23. FOUND RR SPIKE NO TAG DN 0.4' IN AC, ACCEPTED AS CENTERLINE INTERSECTION OF SCENARIO DRIVE & FANTASIA LANE PER (R5).
24. FOUND GEAR SPIKE AND 1 1/2" WASHER STAMPED LS 8070 PER (R11) FLUSH IN AC, ACCEPTED AS CENTERLINE INTERSECTION OF TOMAS LANE & SISSON DRIVE PER (R3).
25. FOUND GEAR SPIKE AND 1 1/2" WASHER STAMPED LS 8070 PER (R10) FLUSH IN AC, ACCEPTED AS CENTERLINE INTERSECTION OF WARREN LANE & SISSON DRIVE PER (R10).
26. FOUND GEAR SPIKE AND 1 1/2" WASHER STAMPED LS 8070 PER (R8) FLUSH IN AC, ACCEPTED AS CENTERLINE INTERSECTION OF SCHYER LANE & SISSON DRIVE PER (R8).
27. FOUND GEAR SPIKE AND 1 1/2" WASHER STAMPED LS 8070 FLUSH IN AC PER (R8), ACCEPTED AS CENTERLINE INTERSECTION OF DAVIS LANE & SISSON DRIVE PER (R7).
28. FD 2 1/4" IP WITH 1 1/4" TAG AND FLATHEAD SCREW STAMPED OCFCD RE 7188 R/W FLUSH IN DIRT, 0.25' S89°18'43"E FROM E'LY RIGHT OF WAY OF O.C.F.C.D PER (R16).
29. FD 2 1/4" IP WITH 1 1/4IN TAG AND FLATHEAD SCREW STAMPED OCFCD RE 7188 R/W, DN 0.7' IN DIRT, 0.17' S89°45'37"E OF W'LY RIGHT OF WAY OF O.C.F.C.D PER (R16).
30. FOUND 2" IP WASHER & FLATHEAD(STANDARD) SCREW "O.C.F.C.D RE 7188 R/W" DN .2' DIRT, 0.47' N30°16'16"W FROM W'LY R/W O.C.F.C.D PER (R16).
31. FOUND 2" IP NO TAG DN 0.2' IN DIRT PER (R16),0.08' N29°50'08"W FROM E'LY RIGHT OF WAY OF O.C.F.C.D PER (R2).
32. FOUND GEAR SPIKE AND WASHER STAMPED LS 4182 PER (R17) FLUSH IN AC, 0.05' S0°32'33"E FROM S'LY LINE OF E 1/2, NW 1/4, SECTION 20, T5S, R11W, SB.B&M.
33. FOUND GEAR SPIKE AND 1 1/2" WASHER STAMPED LS 8070 FLUSH IN AC, ACCEPTED AS A POINT ON CENTERLINE OF MEADOWLARK DRIVE PER (R6).
34. FOUND GEAR SPIKE AND 1 1/2" WASHER STAMPED LS 8070 FLUSH IN AC, ACCEPTED AS A POINT ON CENTERLINE OF MEADOWLARK DRIVE PER (R6).
35. FOUND GEAR SPIKE AND 1 1/2" WASHER STAMPED LS 8070 FLUSH IN AC, ACCEPTED AS A POINT ON CENTERLINE OF MEADOWLARK DRIVE PER (R6).
36. FOUND GEAR SPIKE AND 1 1/2" WASHER STAMPED LS 8070 FLUSH IN AC, ACCEPTED AS A POINT ON CENTERLINE OF MEADOWLARK DRIVE PER (R6).
37. FOUND GEAR SPIKE AND 1 1/2" WASHER STAMPED LS 8070 FLUSH IN AC, ACCEPTED AS A POINT ON CENTERLINE OF MEADOWLARK DRIVE PER (R6).
38. FOUND 3/4 IN IP NO TAG DN 1.2' IN DIRT N0°32'47"E 0.11' FROM THE N'LY RIGHT OF WAY OF O.C.F.C.D PER (R6).
39. FOUND 3/4 IN IP NO TAG DN 0.6' IN DIRT N0°32'47"E 0.27' FROM THE N'LY RIGHT OF WAY OF O.C.F.C.D PER (R6).
40. FOUND 2 IN IP NO TAG DN 1.2' IN DIRT S0°32'47"W 0.11' FROM THE S'LY RIGHT OF WAY OF O.C.F.C.D PER (R6).
41. FOUND 3/4IN IP NO TAG DN 0.5' IN DIRT N0°32'47"E 0.05' FROM S'LY RIGHT OF WAY OF O.C.F.C.D PER (R6).
42. FOUND 2 1/4" IP WITH 1 1/4 TAG IN TAG & FLATHEAD SCREW, N0°32'47"E 0.26' FROM THE S'LY RIGHT OF WAY OF O.C.F.C.D PER (R6).
43. FOUND 2 1/4" IP WITH 1 1/4 TAG IN TAG & FLATHEAD SCREW, N0°32'47"E 0.16' FROM THE S'LY RIGHT OF WAY OF O.C.F.C.D PER (R6).
44. FOUND WELL MONUMENT WITH 2" IP TAG STAMPED "RCE 10655" PER C.E.F.B. (CITY OF HUNTINGTON BEACH) BOOK 69 PAGE 3 OF 6 DATED 05/18/71 MON NUMBER 960 & (R31) DN 1.0' IN A.C., ACCEPTED AS THE CENTERLINE INTERSECTION OF EDINGER AVE & GRAHAM STREET NORTH.

ESTABLISHMENT NOTES

A. ESTABLISHED THE CENTER OF THE NW 1/4, SECTION 20, T5S, R11W, SBB&M BY HOLDING MIDPOINT BETWEEN MONUMENTS 7 & 8

B. ESTABLISHED THE W'LY 1/64TH CORNER OF THE SW 1/4 OF THE NW 1/4, SECTION 20, T5S, R11W, SBB&M BY HOLDING MIDPOINT BETWEEN ESTABLISHMENT NOTE A & MONUMENT 7

C. ESTABLISHED THE E'LY 1/16TH CORNER OF THE NW 1/4, SECTION 20, T5S, R11W, SBB&M BY HOLDING MID POINT BETWEEN MONUMENT NOTES 9 & 10

D. ESTABLISHED THE E'LY 1/64TH CORNER OF THE SE 1/4 OF NW 1/4, SECTION 20, T5S, R11W, SBB&M BY HOLDING MIDPOINT BETWEEN ESTABLISHMENT NOTE C & MONUMENT NOTE 10

E. ESTABLISHED THE S'LY 1/16TH COR OF THE NE 1/4 OF SECTION 20, T5S, R11W BY HOLDING MIDPOINT BETWEEN MONUMENTS 6 & 10

F. ESTABLISHED THE N'LY 1/16TH CORNER OF THE NE 1/4 OF SECTION 20, T5S, R11W, SBB&M BY HOLDING MIDPOINT BETWEEN MONUMENTS 5 & 9

G. ESTABLISHED THE CENTER OF NE 1/4 OF SECTION 20, T5S, R11W, SBB&M BY HOLDING MIDPOINT BETWEEN ESTABLISHMENT NOTES E & F

H. ESTABLISHED THE E'LY 1/64TH CORNER OF THE SW 1/4 OF THE NE 1/4 OF SECTION 20, T5S, R11W, SBB&M BY HOLDING MIDPOINT BETWEEN ESTABLISHMENT NOTES G & E

I. ESTABLISHED THE E'LY 16TH CORNER OF THE NW 1/4, SECTION 20, T5S, R11W, SBB&M BY HOLDING MIDPOINT BETWEEN MONUMENTS 5 & 6

J. ESTABLISHED THE E'LY 1/64TH CORNER OF THE SE 1/4 OF THE NE 1/4 OF SECTION 20, T5S, R11W, SBB&M BY HOLDING MID POINT BETWEEN ESTABLISHMENT NOTES I & MONUMENT 6

K. ESTABLISHED THE S'LY 1/16TH COR OF THE SW 1/4 OF THE NW 1/4 OF SECTION 21, T5S, R11W, SBB&M BY HOLDING MID POINT BETWEEN MONUMENTS 6 & 3

L. ESTABLISHED THE CENTER OF THE NW 1/4 CORNER OF SECTION 20, T5S, R11W, SBB&M BY HOLDING MIDPOINT BETWEEN ESTABLISHMENT NOTE K & MONUMENT 4

M. ESTABLISHED THE NORTH 1/4 CORNER OF SECTION 21, T5S, R11W, SBB&M BY HOLDING A RECORD DISTANCE OF 65' W'LY FROM MONUMENT 4 ALONG THE W'LY PROLONGATION OF LINE ESABLISHMENT BF

N. ESTABLISHED THE E'LY 1/16TH CORNER OF THE NW 1/4 OF SECTION 21, T5S, R11W,SBB&M BY HOLDING MIDPOINT BETWEEN ESTABLISHMENT NOTE M & MONUMENT NOTE 3

O. ESTABLISHED THE N'LY LINE OF THE NE 1/4, NW 1/4, SECTION 20, T5S, R11W, SBB&M BY HOLDING MONUMENTS 8 & 9

P. ESTABLISHED THE S'LY LINE OF THE NE 1/4, NW 1/4, SECTION 20, T5S, R11W, SBB&M BY HOLDING ESTABLISHMENT NOTES A & C

Q. ESTABLISHED THE N'LY LINE OF THE S 1/2, SE 1/4, NW 1/4, SECTION 20, T5S, R11W, SBB&M BY HOLDING ESTABLISHMENT NOTES B & D

R. ESTABLISHED THE S'LY LINE OF THE SE 1/4, NW 1/4, SECTION 20, T5S, R11W, SBB&M BY HOLDING MONUMENTS 7 & 10

S. ESTABLISHED THE S'LY LINE OF THE NE 1/4, SECTION 20, T5S, R11W, SBB&M BY HOLDING MONUMENTS 6 & 10

T. ESTABLISHED THE N'LY LINE OF THE S 1/2 OF THE S 1/2, SECTION 20, T5S,R11W,SBB&M HOLDING ESTABLISHMENT NOTES D & J

U. ESTABLISHED THE S'LY LINE OF THE N 1/2, NE 1/4, SECTION 20, T5S, R11W, SBB&M BY HOLDING ESTABLISHMENT NOTES C & I

V. ESTABLISHED THE N'LY LINE OF THE NE 1/4, SECTION 20, T5S, R11W, SBB&M BY HOLDING MONUMENTS 9 & 5

W. ESTABLISHED THE N'LY LINE OF THE NW 1/4, SECTION 21, T5S, R11W, SBB&M BY HOLDING MONUMENT 5 & ESTABLISHMENT NOTE M

X. ESTABLISHED THE N'LY LINE OF THE S 1/2, NW 1/4, SECTION 21, T5S, R11W, SBB&M BY HOLDING THE MID POINT BETWEEN ESTABLISHMENT NOTES T & N

Y. ESTABLISHED THE S'LY LINE OF THE NW 1/4, SECTION 21, T5S, R11W, SBB&M BY HOLDING MONUMENTS 6 & 3

Z. ESTABLISHED THE W'LY LINE OF THE E 1/2 OF THE NW 1/4 OF SECTION 20, T5S, R11W, SBB&M BY HOLDING MONUMENTS 8 & 7

AA. ESTABLISHED THE E'LY LINE OF THE W 1/2, NW 1/4, SECTION 20, T5S, R11W, SBB&M BY HOLDING MONUMENTS 9 & 10

AB. ESTABLISHED THE E'LY LINE OF THE W 1/2, NE 1/4, SECTION 20, T5S, R11W, SBB&M BY HOLDING ESTABLISHMENT NOTES E & F

AC. ESTABLISHED THE W'LY LINE OF NW 1/4, SECTION 21, T5S, R11W, SBB&M BY HOLDING MONUMENTS 5 & 6

AD. ESTABLISHED THE E'LY LINE OF THE W 1/2, NW 1/4, SECTION 21, T5S, R11W, SBB&M BY HOLDING MONUMENT 4 & ESTABLISHMENT NOTE K

AE. ESTABLISHED THE E'LY LINE OF THE NW 1/4, SECTION 21, T5S, R11W, SBB&M BY HOLDING MONUMENT 3 & ESTABLISHMENT NOTE M

MARK	DATE	ITEM
1	11-19-21	FIX R/W CURVES

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
BOUNDARY MAP

ESTABLISHMENT & MONUMENT NOTES

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY:08/06/2020	BY: T.LOFGREEN & PARTY
MAPPING	BY: K.AHMED
OFFICE CHECK	BY: M.KUBISTY, PLS
FIELD CHECK	BY: T.LOFGREEN
SCALE:1"=20' W.O. #EF21470	FILE #1920PW-PM0004
FILE: SUNSET CHANNEL_BOUNDARY_2022.DWG	

SHEET NO. 2 of 26

ESTABLISHMENT NOTES

AF ESTABLISHED NORTH WEST CORNER OF (R37) BY INTERSECTION HOLDING A LINE 40' W'LY OF AND PARALLEL WITH LINE ESTABLISHMENT Q & LINE ESTABLISHMENT AA

AG ESTABLISHED SOUTH WEST CORNER OF (R37) BY INTERSECTION HOLDING RECORD ANGLES, DISTANCES & CURVATURE INFORMATION PER (R37) SW'LY FROM ESTABLISHMENT NOTE AF & LINE ESTABLISHMENT NOTE R

AH ESTABLISHED THE W'LY LINE OF (R37) BY HOLDING RECORD ANGLES, DISTANCES & CURVATURE INFORMATION PER (R37) BETWEEN ESTABLISHMENT NOTES AF & AG

AI ESTABLISHED NORTH EAST CORNER OF (R37) BY INTERSECTION HOLDING A LINE 86' E'LY OF AND PARALLEL WITH LINE ESTABLISHMENT AA & LINE ESTABLISHMENT T

AJ ESTABLISHED SOUTH EAST CORNER OF (R37) BY INTERSECTION HOLDING RECORD ANGLES, DISTANCES & CURVATURE INFORMATION PER (R37) SW'LY FROM ESTABLISHMENT NOTE AI & LINE ESTABLISHMENT NOTE R

AK ESTABLISHED THE E'LY LINE OF (R37) BY HOLDING RECORD ANGLES, DISTANCES & CURVATURE INFORMATION PER (R37) BETWEEN ESTABLISHMENT NOTES AJ & MONUMENT NOTE 18

AL ESTABLISHED THE N'LY LINE OF (R36, R39–R58) HOLDING A RECORD DISTANCE OF 35' PER (R39–R58) PARALLEL AND N'LY OF LINE ESTABLISHMENT T

AM ESTABLISHED THE S'LY LINE OF (R36, R39–R58) HOLDING A RECORD DISTANCE OF 40' PER (R36, R39–R58) PARALLEL AND S'LY OF LINE ESTABLISHMENT T

AN ESTABLISHED THE NORTH EAST CORNER OF PARCEL B (R58) ALONG BOLSA CHICA STREET BY INTERSECTION HOLDING LINE ESTABLISHMENT AC & AL

AO ESTABLISHED THE ANGLE POINT IN PARCEL B (R58) BY HOLDING RECORD DISTANCE OF 30' PER (R58) W'LY FROM ESTABLISHMENT AN ALONG LINE ESTABLISHMENT AL

AP ESTABLISHED THE SOUTH WEST CORNER OF PARCEL B (R58) BY HOLDING RECORD DISTANCE OF 91' PER (R58) W'LY FROM ESTABLISHMENT AO ALONG LINE ESTABLISHMENT AL

AQ ESTABLISHED PARCEL B OF (R58) HOLDING RECORD ANGLES, DISTANCES PER (R58) BETWEEN ESTABLISHMENT NOTES AP & AO

AS ESTABLISHED NORTH EAST CORNER OF PARCEL B OF (R50) BY INTERSECTION HOLDING RECORD ANGLES, DISTANCES & CURVATURE INFORMATION PER (R50) NE'LY FROM ESTABLISHMENT NOTE BC WITH LINE ESTABLISHMENT NOTE AL

AT ESTABLISHED THE E'LY LINE OF PARCEL B OF (R50) BY HOLDING RECORD ANGLES, DISTANCES & CURVATURE INFORMATION PER (R50) BETWEEN ESTABLISHMENT NOTES BC & AS

AU ESTABLISHED THE S'LY LINE OF PARCEL A OF (R50) HOLDING A RECORD DISTANCE OF 35' PER (R50) PARALLEL AND S'LY OF LINE ESTABLISHMENT X EXCEPT THE PORTION THEREOF LYING E'LY OF A LINE WHICH IS PARALLEL WITH AND 54' E'LY OF LINE ESTABLISHMENT AC

AV ESTABLISHED THE N'LY LINE OF THE (R57) HOLDING A RECORD DISTANCE OF 40' PER (R57) PARALLEL AND N'LY OF LINE ESTABLISHMENT X EXCEPT THE PORTION THEREOF LYING E'LY OF A LINE WHICH IS PARALLEL WITH AND 54' E'LY OF LINE ESTABLISHMENT AC

AW ESTABLISHED THE N'LY CORNER OF (R63) BY INTERSECTION HOLDING RECORD ANGLES & DISTANCE PER (R63) N'LY FROM ESTABLISHMENT BC NOTE WITH LINE ESTABLISHMENT AV

AX ESTABLISHED THE B.C ON THE N'LY RIGHT OF WAY OF (R62) HOLDING A RECORD DISTANCE OF 40' PER (R62) PARALLEL WITH LINE ESTABLISHMENT X FROM ESTABLISHMENT POINT BC

AZ ESTABLISHED A POINT ON THE W'LY RIGHT OF WAY OF (R62) HOLDING A RECORD DISTANCE OF 40' PER (R62) W'LY OF & PARALLEL WITH LINE ESTABLISHMENT AE FROM ESTABLISHMENT POINT BF

BA ESTABLISHED N'LY PORTION OF (R62) BY HOLDING RECORD CURVE DATA BETWEEN ESTABLISHMENT NOTES AY & AZ

BB ESTABLISHED THE W'LY LINE OF (R62) HOLDING A RECORD DISTANCE OF 40' PER (R62) PARALLEL AND W'LY OF LINE ESTABLISHMENT AE

BD ESTABLISHED THE E'LY LINE OF (R60) HOLDING A RECORD DISTANCE OF 35' PER (R60) E'LY OF AND PARALLEL WITH LINE ESTABLISHMENT AD

BE ESTABLISHED A POINT ON THE E'LY RIGHT OF WAY OF (R60) PARALLEL & 35' PERPENDICULAR, AT A CALCULATED RECORD DISTANCE OF 1197.93' NE'LY FROM ESTABLISHMENT NOTE AD ALONG ESTABLISHMENT NOTE N PER (R7).

BF ESTABLISHED NORTH EAST CORNER OF (R60) BY INTERSECTION HOLDING RECORD DISTANCES PER (R60) E'LY FROM ESTABLISHMENT NOTE M ALONG LINE ESTABLISHMENT BP

BG ESTABLISHED THE N'LY LINE OF A PORTION OF THE NW 1/4, NE 1/4 SECTION 21, T5S, R11W, SBB&M BY HOLDING MONUMENT 1 & 2

BH ESTABLISHED THE E'LY LINE OF (R60) BY HOLDING RECORD ANGLES, DISTANCES PER (R60) BETWEEN ESTABLISHMENT NOTES BD & BG

BI ESTABLISHED THE CENTERLINE OF SCENARIO DRIVE BY HOLDING MONUMENTS 17 & 23 PER (R5)

BJ ESTABLISHED PORTION OF THE C/L OF SISSON DRIVE HOLDING THE W'LY PROLONGATION OF LINE ESTABLISHMENT BM TO ITS INTERSECTION WITH LINE ESTABLISHMENT AO

BK ESTABLISHED THE CENTERLINE OF SISSON DRIVE BY HOLDING MONUMENTS 24 & 27 PER (R7)

BL ESTABLISHED AN ANGLE POINT ON THE CENTERLINE OF MEADOWLARK DRIVE BY BY HOLDING A RECORD DISTANCE OF 226.27' ALONG THE W'LY PROLONGATION OF LINE ESTABLISHMENT BM FROM MONUMENT 36 PER (R6)

BM ESTABLISHED THE CENTERLINE OF MEADOWLARK DRIVE BY HOLDING A LINE BETWEEN ESTABLISHMENT NOTE BL & MONUMENT 36 PER (R6)

BN ESTABLISHED THE CENTERLINE OF MEADOWLARK DRIVE BY HOLDING A LINE BETWEEN ESTABLISHMENT NOTE BL & MONUMENT 33 PER (R20)

BO ESTABLISHED POINT ON LINE ESTABLISHMENT X HOLDING RECORD TANGENT DISTANCE OF 150.86' PER (R7) W'LY FROM ESTABLISHMENT NOTE N ALONG LINE ESTABLISHMENT X

BP ESTABLISHED POINT ON LINE ESTABLISHMENT AE HOLDING RECORD TANGENT DISTANCE OF 150.86' PER (R7) N'LY FROM ESTABLISHMENT NOTE N ALONG LINE ESTABLISHMENT AE

BQ ESTABLISHED SOUTH WEST CORNER OF O.C.F.C.D PARCELS BY INTERSECTION HOLDING RECORD COURSES PER (R50,R61),E'LY,N'LY & NE'LY FROM ESTABLISHMENT NOTE J & LINE ESTABLISHMENT A 54' E'LY OF & PARALLEL WITH LINE ESTABLISHMENT AC PER (R63).

BR ESTABLISHED THE E'LY RIGHT OF WAY OF BOLSA CHICA STREET HOLDING A RECORD DISTANCE OF 60' PER (R33) E'LY OF & PARALLEL WITH LINE ESTABLISHMENT AC

BS ESTABLISHED THE W'LY RIGHT OF WAY OF BOLSA CHICA STREET HOLDING A RECORD DISTANCE OF 60' PER (R15) W'LY OF & PARALLEL WITH LINE ESTABLISHMENT AC

BT SFN ESTABLISHED E'LY TERMINUS OF THE C/L OF SCENARIO DRIVE HOLDING A RECORD DISTANCE OF 1190.17' PER (R5) ALONG THE E'LY PROLONGATION OF LINE ESTABLISHMENT BH FROM MONUMENT 17

BU ESTABLISHED NORTH WEST CORNER OF PARCEL A (R62) BY INTERSECTION HOLDING RECORD DISTANCES PER (R62), W'LY FROM ESTABLISHMENT NOTE M ALONG LINE ESTABLISHMENT BP

REFERENCES

(R1) = M.M. 51/13
(R2) = TRACT NO.9617 M.M 464/36–37
(R3) = TRACT NO.3616 M.M. 124/7–11
(R4) = TRACT NO.8698 M.M. 391/19–20
(R5) = TRACT NO.3670 M.M. 149/34
(R6) = TRACT NO.3508 M.M 132/41–42
(R7) = TRACT NO.3657 M.M. 134/21–25
(R8) = CORNER RECORD 2016–2512
(R9) = CORNER RECORD 2016–2509
(R10) = CORNER RECORD 2017–2508B
(R11) = CORNER RECORD 2016–2507B
(R12) = TRACT NO.6429 M.M. 241/11–13
(R13) = TRACT NO.5963 M.M. 289/48–50
(R14) = TRACT NO.9468 M.M. 407/28–29
(R15) = TRACT NO.3750 M.M. 167/10–11
(R16) = PARCEL MAP PMB 96/30
(R17) = CORNER RECORD 2001–746B
(R18) = TRACT NO.7639 M.M. 300/20–21
(R19) = PARCEL MAP PMB 108/47–48
(R20) = TRACT NO.3752 M.M. 132/39–40
(R21) = CORNER RECORD 2016–2909A
(R22) = CORNER RECORD 2019–0734
(R23) = CORNER RECORD 2002–1563
(R24) = CORNER RECORD 2018–0719
(R25) = CORNER RECORD 2005–0069A
(R26) = CORNER RECORD 2016–1032
(R27) = CORNER RECORD 2018–1879
(R28) = CORNER RECORD 2006–0218
(R29) = CORNER RECORD 2018–1880
(R30) = CORNER RECORD 2017–1234B
(R31) = CORNER RECORD 2015–0696A
(R32) = PARCEL MAP PMB 229/17–18
(R33) = PARCEL MAP PMB 69/23
(R34) = TRACT NO.3753 M.M. 132/37–38
(R35) = TRACT NO.3642 M.M. 145/48
(R36) = 6134/921 O.R.
(R37) = 2702/506 O.R.
(R38) = 2665/182 O.R.
(R39) = 6204/184 O.R.
(R40) = 2657/445 O.R.
(R41) = 2587/265 O.R.
(R42) = 5805/392 O.R.
(R43) = 2619/186 O.R.
(R44) = 2610/29 O.R.
(R45) = 5933/968 O.R.
(R46) = 5933/970 O.R.
(R47) = 5824/56 O.R.
(R48) = 2643/223 O.R.
(R49) = 2610/22 O.R.
(R50) = 2641/483 O.R.
(R51) = 11977/744 O.R.
(R52) = 2637/406 O.R.
(R53) = 2619/188 O.R.
(R54) = 6257/683 O.R.
(R55) = 5824/51 O.R.
(R56) = 6022/916 O.R.
(R57) = 2587/215 O.R.
(R58) = 2726/540 O.R.
(R59) = 2568/203 O.R.
(R60) = 2539/640 O.R.
(R61) = 7975/638 O.R.
(R62) = 2576/609 O.R.
(R63) = 8008/356 O.R.
(R64) = TRACT NO.3643 M.M. 153/11–12
(R65) = 5685/459 O.R.
(R66) = 5623/212 O.R.
(R67) = RECORD OF SURVEY RSB 72/43
(R68) = RECORD OF SURVEY RSB 58/35–36

MARK	DATE	ITEM
1	11–19–21	FIX R/W CURVES

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

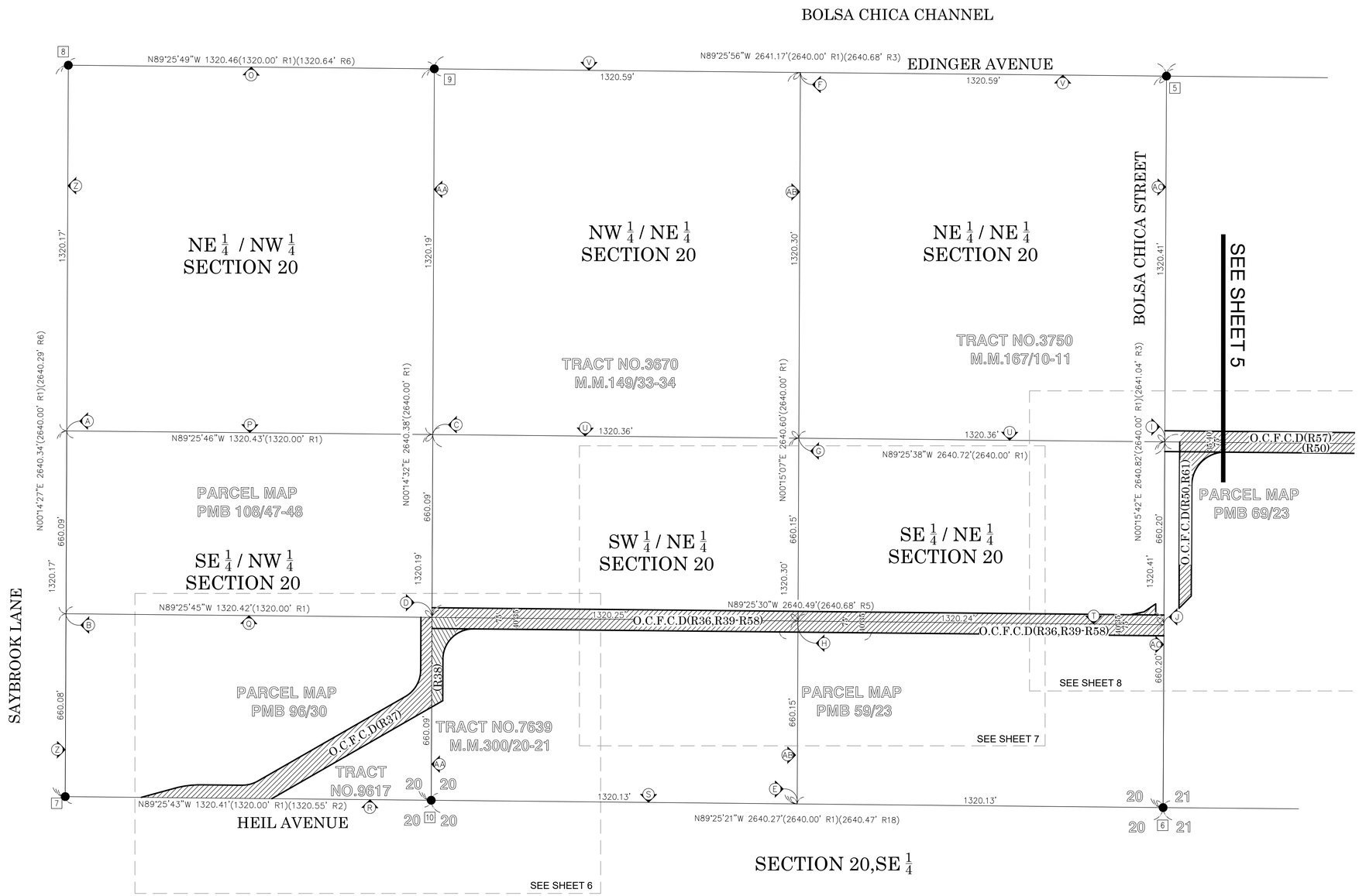
SUNSET CHANNEL(C07)
BOUNDARY MAP

ESTABLISHMENT & MONUMENT NOTES

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY:08/06/2020		BY: T.LOFGREEN & PARTY
MAPPING		BY: K.AHMED
OFFICE CHECK		BY: M.KUBISTY, PLS
FIELD CHECK		BY: T.LOFGREEN
SCALE:1"=20'	W.O. #EF21470	FILE #1920PW–PM0004
FILE:SUNSET CHANNEL_BOUNDARY_2022.DWG		

SHEET NO. 3 of 26



U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

LEGEND

- ● FOUND MONUMENT AS NOTED
- ⊗ SEARCHED, FOUND NOTHING.
- (A) CENTERLINE CONSTRUCTION SEE SHEET 12

MARK	DATE	ITEM
1	11-19-21	FIX R/W CURVES

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

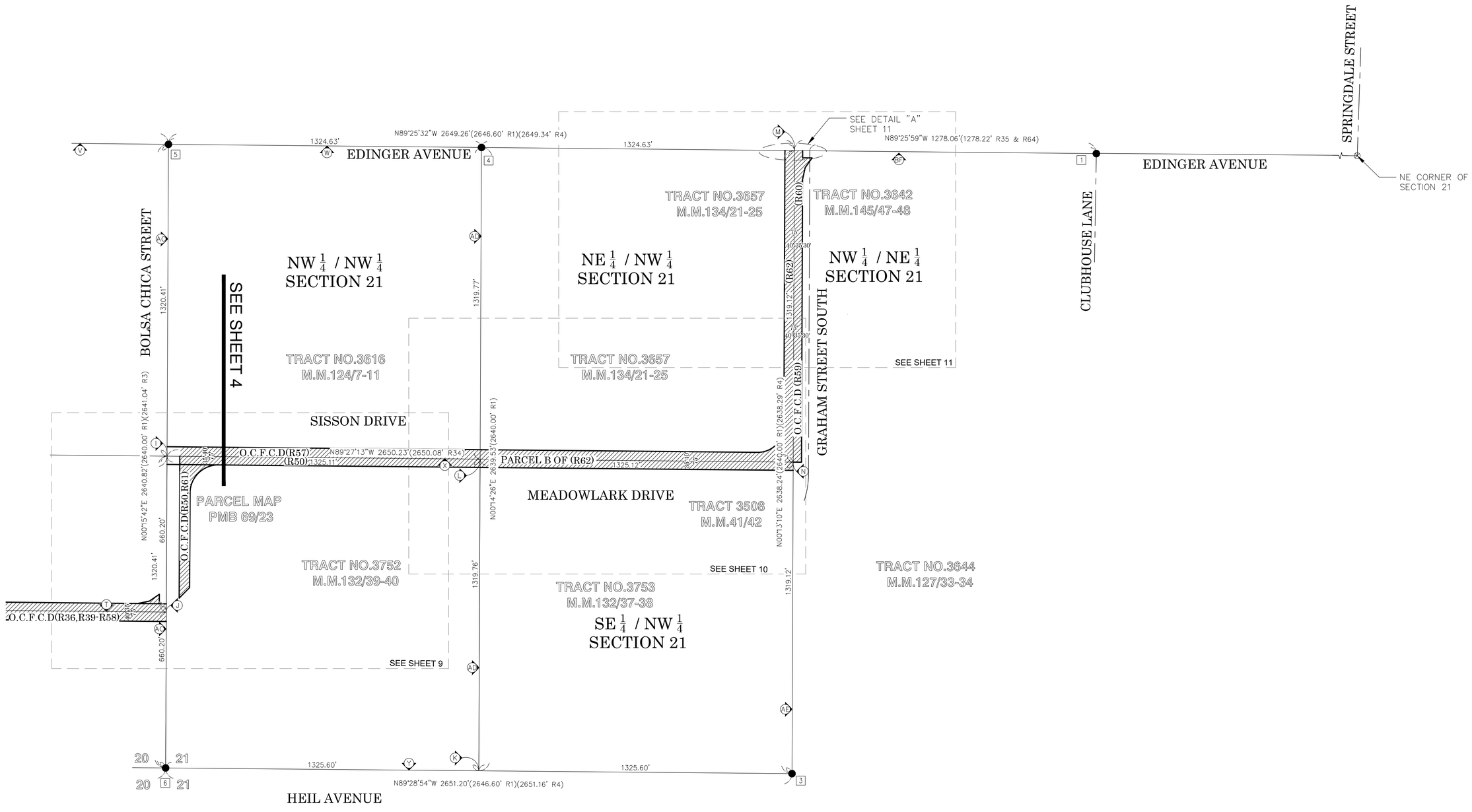
SUNSET CHANNEL(C07)
BOUNDARY MAP

SECTIONALIZED BREAKDOWN

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY: 08/06/2020	BY: T.LOFGREEN & PARTY
MAPPING	BY: K.AHMED
OFFICE CHECK	BY: M.KUBISTY, PLS
FIELD CHECK	BY: T.LOFGREEN
SCALE: 1"=200' W.O. #EF21470	FILE #1920PW-PM0004
FILE: SUNSET CHANNEL_BOUNDARY_2022.DWG	

SHEET NO. 4 of 26



0' 100' 200' 400' 600'

SCALE: 1" = 200'

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

LEGEND

- ● FOUND MONUMENT AS NOTED
- ⊗ SEARCHED, FOUND NOTHING.
- (A) CENTERLINE CONSTRUCTION SEE SHEET 12

MARK	DATE	ITEM
1	11-19-21	FIX R/W CURVES

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

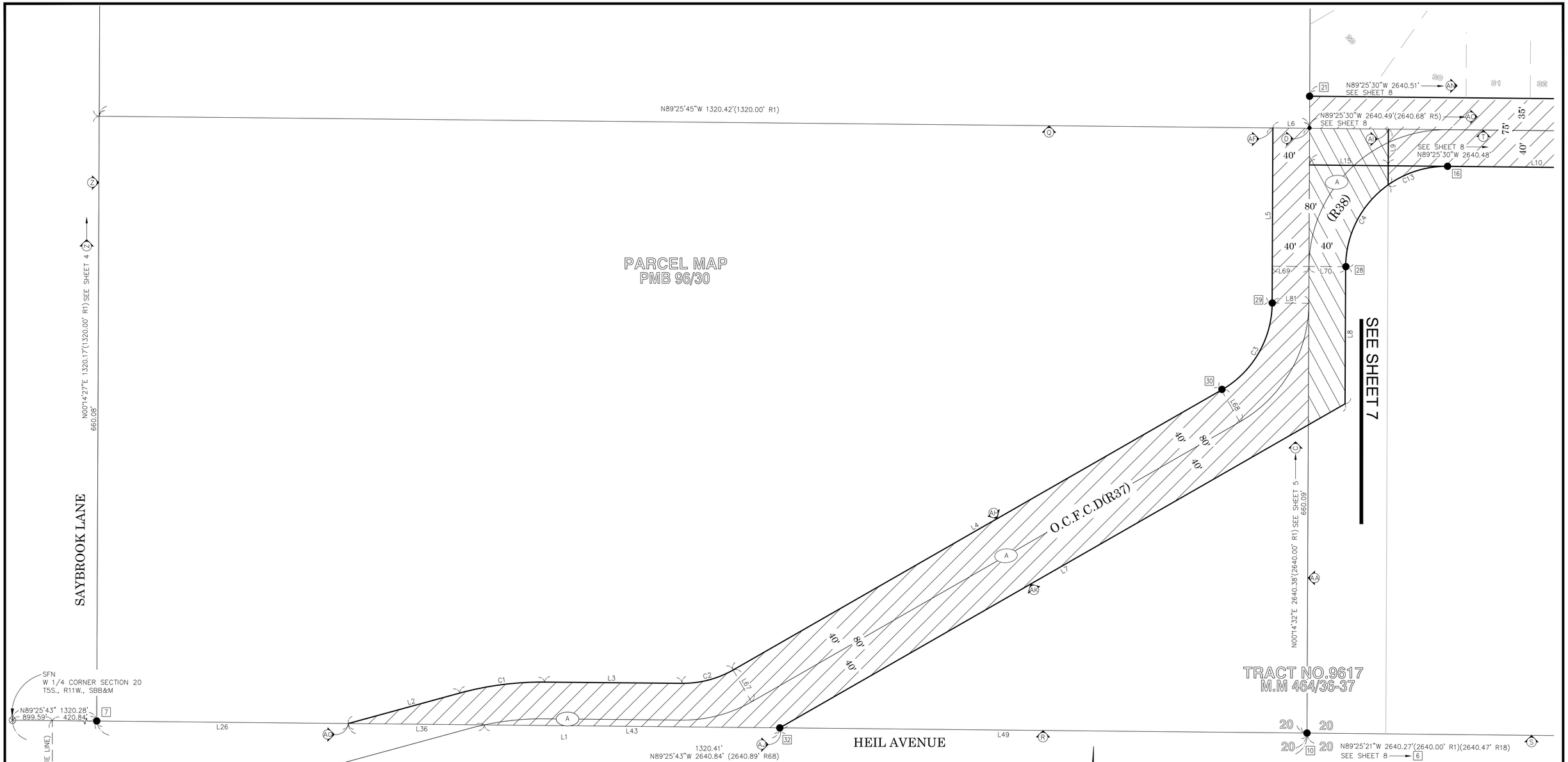
SUNSET CHANNEL(C07)
BOUNDARY MAP

SECTIONALIZED BREAKDOWN

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY: 08/06/2020	BY: T.LOFGREEN & PARTY	
MAPPING	BY: K.AHMED	
OFFICE CHECK	BY: M.KUBISTY, PLS	
FIELD CHECK	BY: T.LOFGREEN	
SCALE: 1"=200' W.O. #EF21470	FILE #1920PW-PM0004	
FILE: SUNSET CHANNEL_BOUNDARY_2022.DWG		

SHEET NO. 5 of 26



LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L1	N89°25'43"W	470.85'	470.89'(R37)
L2	N74°46'07"E	126.23'	126.31'(R37)
L3	N89°29'13"W	150.04'	150.04'(R37)
L4	N60°09'52"E	614.09'	614.08'(R37)
L5	N00°14'23"E	191.15'	191.15'(R37)
L6	N89°25'20"W	40.00'	40.00'(R37)
L7	N60°09'52"E	710.81'	710.86'(R37 & R38)
L8	N00°14'32"E	149.76'	149.68(R38)
L9	N00°14'32"E	60.92'	60.92'(R38)
L10	N89°25'30"W	324.09'	324.48'(R36 & R37)
L15	N89°25'30"W	86.00'	86.00'(R38)
L26	N89°25'43"W	274.45'	274.44'(R16)
L36	N89°25'41"W	148.43'	

LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L43	N89°25'42"W	322.41'	
L49	N89°25'43"W	575.10'	
L67	N29°50'08"W	40.00'	40.00'(R37)
L68	N29°50'38"W	40.00'	40.00'(R37)
L69	N89°45'37"W	80.00'	80.00'(R37 & R38)
L70	N89°45'37"W	80.00'	80.00'(R37 & R38)

CURVE TABLE						
CURVE #	DELTA	RADIUS	LENGTH	RECORD DELTA	RECORD RADIUS	RECORD LENGTH
C1	15°44'40"	339.99'	93.43'	15°44'40"(R37)	340.00'(R37)	93.43'(R37)
C2	30°21'20"	110.00'	58.28'	30°21'26"(R37)	110.00'(R37)	58.28'(R37)
C3	59°54'55"	110.00'	115.03'	59°55'10"(R37)	110.00'(R37)	115.04'(R37)
C4	54°22'20"	110.00'	104.39'	54°25'00"(R38)	110.00'(R38)	104.47'(R38)
C13	35°55'07"	110.00'	68.96'	35°55'07"(R36)	110.00'(R36)	68.96'(R36)

0' 25' 50' 100' 150'

SCALE: 1" = 50'

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

(A) CENTERLINE CONSTRUCTION SEE SHEET 12

MARK	DATE	ITEM
1	11-19-21	FIX R/W CURVES

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

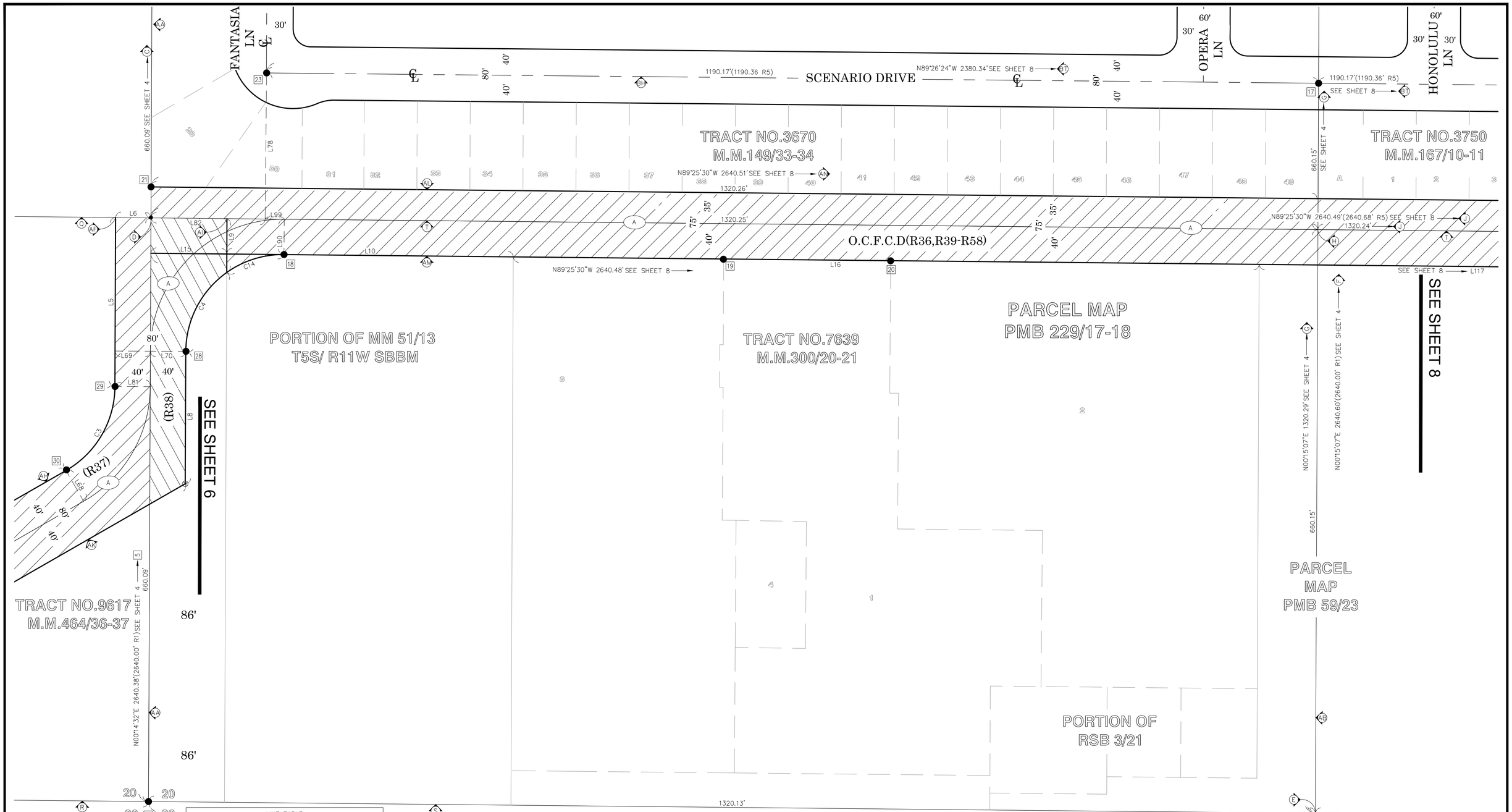
SUNSET CHANNEL(C07)
BOUNDARY MAP

BOUNDARY MAP

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY:08/06/2020		BY: T.LOFGREEN & PARTY
MAPPING		BY: K. AHMED
OFFICE CHECK		BY: M.KUBISTY, PLS
FIELD CHECK		BY: T.LOFGREEN
SCALE:1" = 50'	W.O. #EF21470	FILE #1920PW-PM0004
FILE:SUNSET CHANNEL_BOUNDARY_2022.DWG		

SHEET NO. 6 of 26



LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L5	N00°14'23"E	191.15'	191.15'(R37)
L6	N89°25'20"W	40.00'	40.00'(R37)
L8	N00°14'32"E	149.76'	149.68'(R38)
L9	N00°14'32"E	60.92'	60.92'(R38)
L10	N89°25'30"W	324.09'	324.48'(R36 & R37)
L15	N89°25'30"W	86.00'	86.00'(R38)
L16	N89°25'30"W	843.84'	843.86'(R18)
L78	N00°34'30"E	165.22'	
L82	N89°25'39"W	129.16'	

CURVE TABLE						
CURVE #	DELTA	RADIUS	LENGTH	RECORD DELTA	RECORD RADIUS	RECORD LENGTH
C3	59°54'55"	110.00'	115.03'	59°55'10"(R37)	110.00'(R37)	115.04'(R37)
C4	54°22'20"	110.00'	104.39'	54°25'00"(R38)	110.00'(R38)	104.47'(R38)

LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L90	N00°34'30"E	40.01'	40.00'(R36)
L99	N89°26'17"W	21.68'	
L117	N89°25'30"W	259.24'	

0' 25' 50' 100' 150'

SCALE: 1" = 50'

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

(A) CENTERLINE CONSTRUCTION SEE SHEET 12

MARK	DATE	ITEM
1	11-19-21	FIX R/W CURVES

REVISIONS

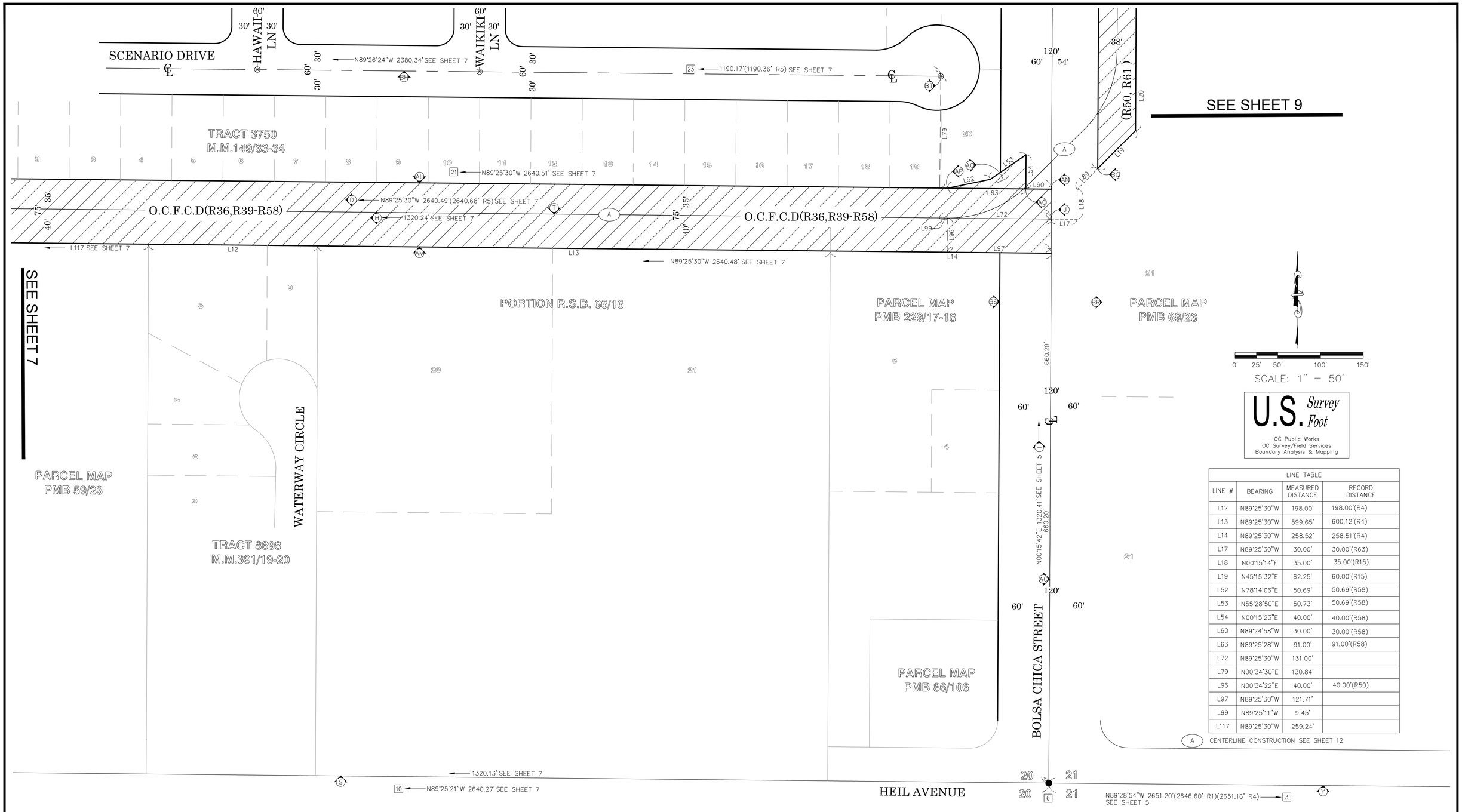
COUNTY OF ORANGE
OC PUBLIC WORKS
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
BOUNDARY MAP

BOUNDARY MAP
PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY: 08/06/2020	BY: T.LOFGREEN & PARTY	
MAPPING	BY: K. AHMED	
OFFICE CHECK	BY: M.KUBISTY, PLS	
FIELD CHECK	BY: T.LOFGREEN	
SCALE: 1" = 50' W.O. #EF21470	FILE #1920PW-PM0004	
FILE: SUNSET CHANNEL_BOUNDARY_2022.DWG		

SHEET NO. 7 of 26



LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L12	N89°25'30"W	198.00'	198.00'(R4)
L13	N89°25'30"W	599.65'	600.12'(R4)
L14	N89°25'30"W	258.52'	258.51'(R4)
L17	N89°25'30"W	30.00'	30.00'(R63)
L18	N00°15'14"E	35.00'	35.00'(R15)
L19	N45°15'32"E	62.25'	60.00'(R15)
L52	N78°14'06"E	50.69'	50.69'(R58)
L53	N55°28'50"E	50.73'	50.69'(R58)
L54	N00°15'23"E	40.00'	40.00'(R58)
L60	N89°24'58"W	30.00'	30.00'(R58)
L63	N89°25'28"W	91.00'	91.00'(R58)
L72	N89°25'30"W	131.00'	
L79	N00°34'30"E	130.84'	
L96	N00°34'22"E	40.00'	40.00'(R50)
L97	N89°25'30"W	121.71'	
L99	N89°25'11"W	9.45'	
L117	N89°25'30"W	259.24'	

(A) CENTERLINE CONSTRUCTION SEE SHEET 12

MARK	DATE	ITEM
1	11-19-21	FIX R/W CURVES

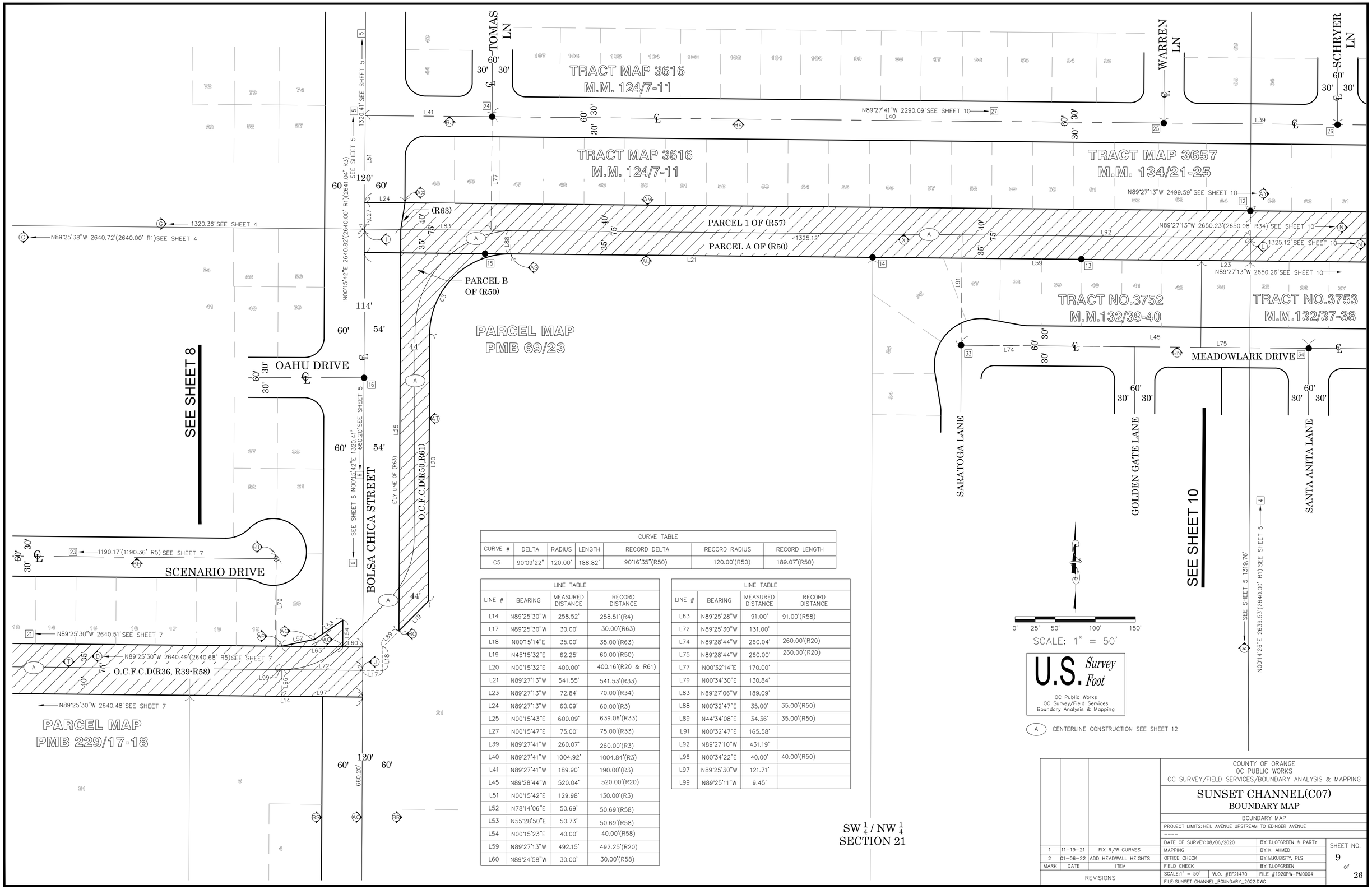
REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
BOUNDARY MAP

BOUNDARY MAP
PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY:08/06/2020		BY: T.LOFGREEN & PARTY
MAPPING		BY: K. AHMED
OFFICE CHECK		BY: M.KUBISTY, PLS
FIELD CHECK		BY: T.LOFGREEN
SCALE: 1" = 50'	W.O. #EF21470	FILE #1920PW-PM0004
FILE: SUNSET CHANNEL_BOUNDARY_2022.DWG		



CURVE TABLE						
CURVE #	DELTA	RADIUS	LENGTH	RECORD DELTA	RECORD RADIUS	RECORD LENGTH
C5	90°09'22"	120.00'	188.82'	90°16'35"(R50)	120.00'(R50)	189.07'(R50)

LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L14	N89°25'30"W	258.52'	258.51'(R4)
L17	N89°25'30"W	30.00'	30.00'(R63)
L18	N00°15'14"E	35.00'	35.00'(R63)
L19	N45°15'32"E	62.25'	60.00'(R50)
L20	N00°15'32"E	400.00'	400.16'(R20 & R61)
L21	N89°27'13"W	541.55'	541.53'(R33)
L23	N89°27'13"W	72.84'	70.00'(R34)
L24	N89°27'13"W	60.09'	60.00'(R3)
L25	N00°15'43"E	600.09'	639.06'(R33)
L27	N00°15'47"E	75.00'	75.00'(R33)
L39	N89°27'41"W	260.07'	260.00'(R3)
L40	N89°27'41"W	1004.92'	1004.84'(R3)
L41	N89°27'41"W	189.90'	190.00'(R3)
L45	N89°28'44"W	520.04'	520.00'(R20)
L51	N00°15'42"E	129.98'	130.00'(R3)
L52	N78°14'06"E	50.69'	50.69'(R58)
L53	N55°28'50"E	50.73'	50.69'(R58)
L54	N00°15'23"E	40.00'	40.00'(R58)
L59	N89°27'13"W	492.15'	492.25'(R20)
L60	N89°24'58"W	30.00'	30.00'(R58)

LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L63	N89°25'28"W	91.00'	91.00'(R58)
L72	N89°25'30"W	131.00'	
L74	N89°28'44"W	260.04'	260.00'(R20)
L75	N89°28'44"W	260.00'	260.00'(R20)
L77	N00°32'14"E	170.00'	
L79	N00°34'30"E	130.84'	
L83	N89°27'06"W	189.09'	
L88	N00°32'47"E	35.00'	35.00'(R50)
L89	N44°34'08"E	34.36'	35.00'(R50)
L91	N00°32'47"E	165.58'	
L92	N89°27'10"W	431.19'	
L96	N00°34'22"E	40.00'	40.00'(R50)
L97	N89°25'30"W	121.71'	
L99	N89°25'11"W	9.45'	

SW $\frac{1}{4}$ / NW $\frac{1}{4}$
SECTION 21

MARK	DATE	ITEM
1	11-19-21	FIX R/W CURVES
2	01-06-22	ADD HEADWALL HEIGHTS

REVISIONS

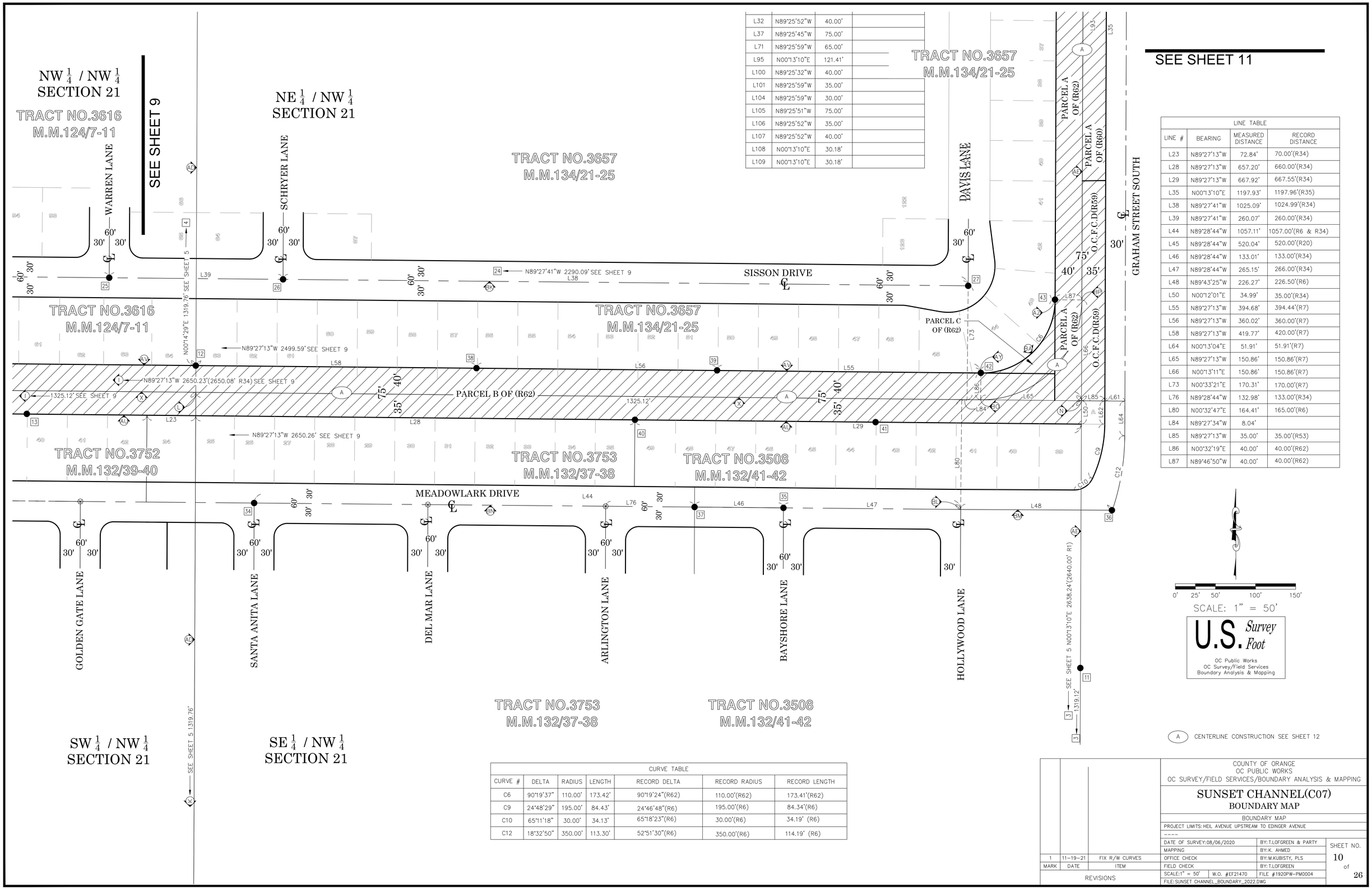
COUNTY OF ORANGE
OC PUBLIC WORKS
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
BOUNDARY MAP

BOUNDARY MAP
PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY: 08/06/2020		BY: T.LOFGREEN & PARTY
MAPPING		BY: K. AHMED
OFFICE CHECK		BY: M.KUBISTY, PLS
FIELD CHECK		BY: T.LOFGREEN
SCALE: 1" = 50'	W.O. #EF21470	FILE #1920PW-PM0004
FILE: SUNSET CHANNEL_BOUNDARY_2022.DWG		

SHEET NO. 9 of 26



L32	N89°25'52"W	40.00'	
L37	N89°25'45"W	75.00'	
L71	N89°25'59"W	65.00'	
L95	N00°13'10"E	121.41'	
L100	N89°25'32"W	40.00'	
L101	N89°25'59"W	35.00'	
L104	N89°25'59"W	30.00'	
L105	N89°25'51"W	75.00'	
L106	N89°25'52"W	35.00'	
L107	N89°25'52"W	40.00'	
L108	N00°13'10"E	30.18'	
L109	N00°13'10"E	30.18'	

LINE TABLE

LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L23	N89°27'13"W	72.84'	70.00'(R34)
L28	N89°27'13"W	657.20'	660.00'(R34)
L29	N89°27'13"W	667.92'	667.55'(R34)
L35	N00°13'10"E	1197.93'	1197.96'(R35)
L38	N89°27'41"W	1025.09'	1024.99'(R34)
L39	N89°27'41"W	260.07'	260.00'(R34)
L44	N89°28'44"W	1057.11'	1057.00'(R6 & R34)
L45	N89°28'44"W	520.04'	520.00'(R20)
L46	N89°28'44"W	133.01'	133.00'(R34)
L47	N89°28'44"W	265.15'	266.00'(R34)
L48	N89°43'25"W	226.27'	226.50'(R6)
L50	N00°12'01"E	34.99'	35.00'(R34)
L55	N89°27'13"W	394.68'	394.44'(R7)
L56	N89°27'13"W	360.02'	360.00'(R7)
L58	N89°27'13"W	419.77'	420.00'(R7)
L64	N00°13'04"E	51.91'	51.91'(R7)
L65	N89°27'13"W	150.86'	150.86'(R7)
L66	N00°13'11"E	150.86'	150.86'(R7)
L73	N00°33'21"E	170.31'	170.00'(R7)
L76	N89°28'44"W	132.98'	133.00'(R34)
L80	N00°32'47"E	164.41'	165.00'(R6)
L84	N89°27'34"W	8.04'	
L85	N89°27'13"W	35.00'	35.00'(R53)
L86	N00°32'19"E	40.00'	40.00'(R62)
L87	N89°46'50"W	40.00'	40.00'(R62)

CURVE TABLE

CURVE #	DELTA	RADIUS	LENGTH	RECORD DELTA	RECORD RADIUS	RECORD LENGTH
C6	90°19'37"	110.00'	173.42'	90°19'24"(R62)	110.00'(R62)	173.41'(R62)
C9	24°48'29"	195.00'	84.43'	24°46'48"(R6)	195.00'(R6)	84.34'(R6)
C10	65°11'18"	30.00'	34.13'	65°18'23"(R6)	30.00'(R6)	34.19' (R6)
C12	18°32'50"	350.00'	113.30'	52°51'30"(R6)	350.00'(R6)	114.19' (R6)

MARK	DATE	ITEM
1	11-19-21	FIX R/W CURVES

REVISIONS

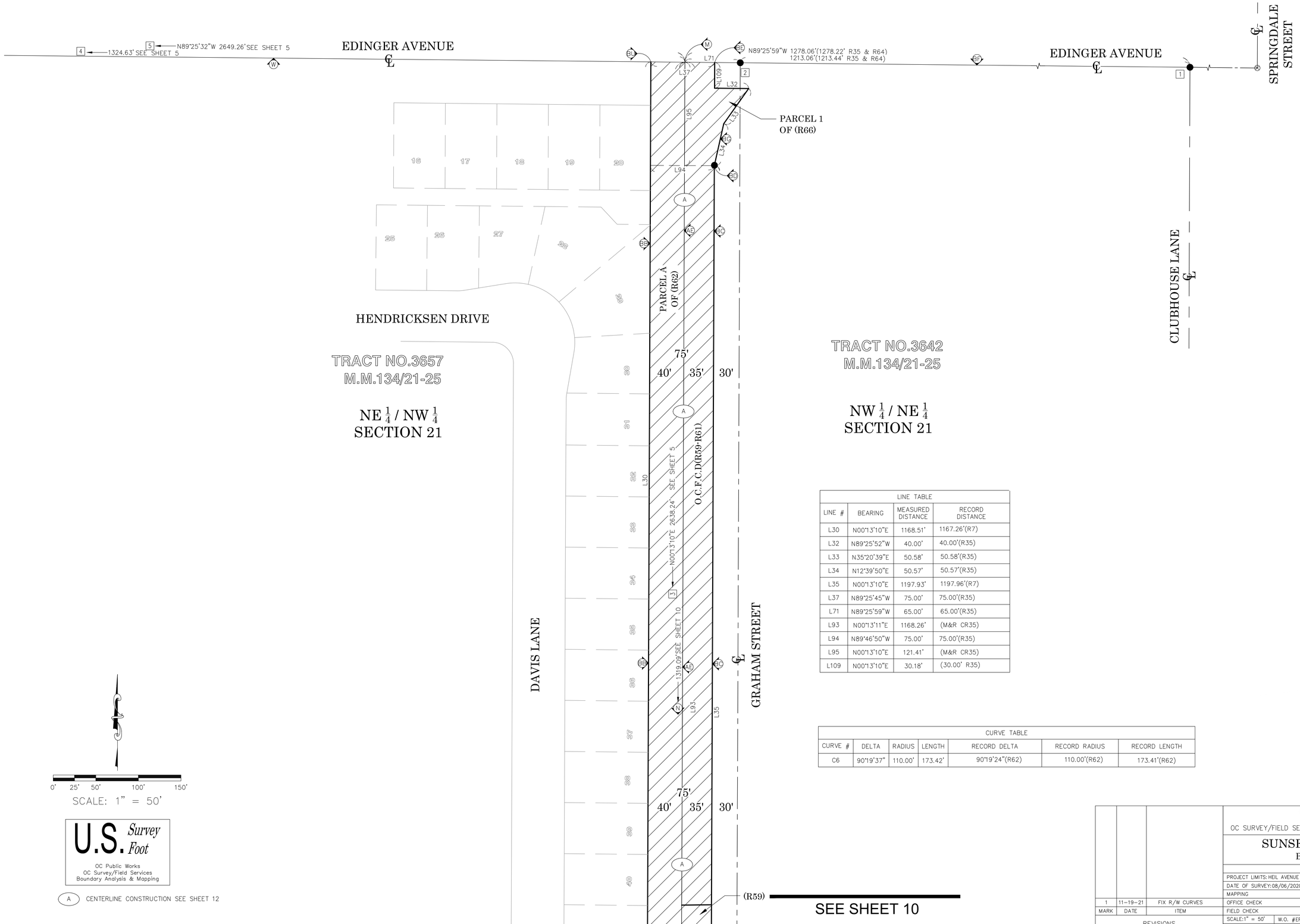
COUNTY OF ORANGE
OC PUBLIC WORKS
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
BOUNDARY MAP

BOUNDARY MAP
PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY:08/06/2020		BY: T.LOFGREEN & PARTY
MAPPING		BY: K. AHMED
OFFICE CHECK		BY: M.KUBISTY, PLS
FIELD CHECK		BY: T.LOFGREEN
SCALE:1" = 50'	W.O. #EF21470	FILE #1920PW-PM0004
FILE: SUNSET CHANNEL_BOUNDARY_2022.DWG		

SHEET NO. 10 of 26



LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L30	N00°13'10"E	1168.51'	1167.26'(R7)
L32	N89°25'52"W	40.00'	40.00'(R35)
L33	N35°20'39"E	50.58'	50.58'(R35)
L34	N12°39'50"E	50.57'	50.57'(R35)
L35	N00°13'10"E	1197.93'	1197.96'(R7)
L37	N89°25'45"W	75.00'	75.00'(R35)
L71	N89°25'59"W	65.00'	65.00'(R35)
L93	N00°13'11"E	1168.26'	(M&R CR35)
L94	N89°46'50"W	75.00'	75.00'(R35)
L95	N00°13'10"E	121.41'	(M&R CR35)
L109	N00°13'10"E	30.18'	(30.00' R35)

CURVE TABLE						
CURVE #	DELTA	RADIUS	LENGTH	RECORD DELTA	RECORD RADIUS	RECORD LENGTH
C6	90°19'37"	110.00'	173.42'	90°19'24"(R62)	110.00'(R62)	173.41'(R62)

MARK	DATE	ITEM
1	11-19-21	FIX R/W CURVES

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
BOUNDARY MAP

BOUNDARY MAP
PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY:08/06/2020		BY: T.LOFGREEN & PARTY
MAPPING		BY: K. AHMED
OFFICE CHECK		BY: M.KUBISTY, PLS
FIELD CHECK		BY: T.LOFGREEN
SCALE: 1" = 50'	W.O. #EF21470	FILE #1920PW-PM0004
FILE: SUNSET CHANNEL_BOUNDARY_2022.DWG		

SHEET NO. 11 of 26

ESTABLISHMENT NOTE

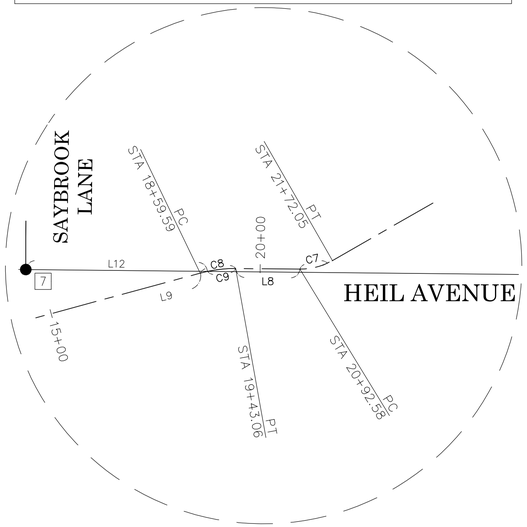
THE CENTERLINE CONSTRUCTION ALIGNMENT SHOWN HEREON WAS DEVELOPED BY HOLDING THE INTENT OF RECORD DRAWING C07-101-1A BY SPLITTING PERTINENT OCFCD DEEDS, RUNNING ALONG ESTABLISHED SECTION LINES, AND HOLDING RECORD RADII PER SAID RECORD PLANS (PER DIRECTIVE OF CIVIL ENGINEER, ROBERT MCLEAN R.C.E).

BASIS OF STATIONING

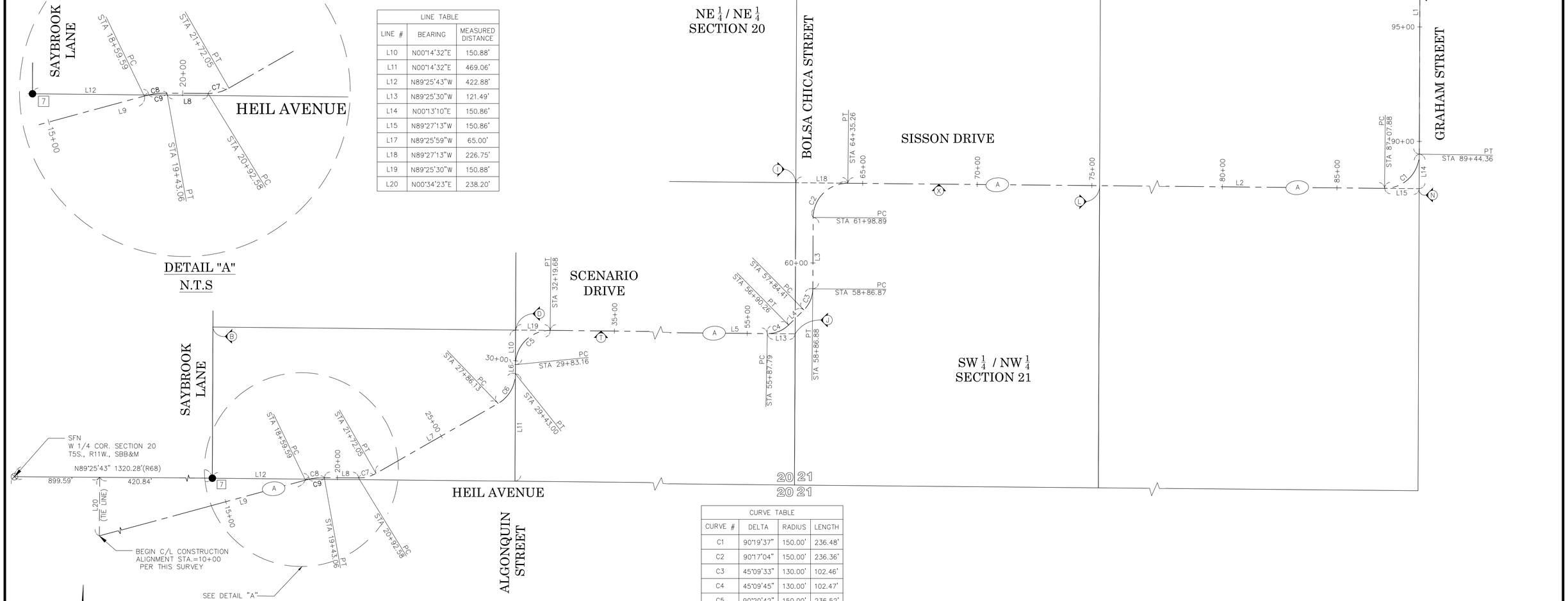
THE BASIS OF STATIONING FOR THE CENTERLINE CONSTRUCTION ALIGNMENT SHOWN HEREON WAS DEVELOPED HOLDING A STATION OF 10+00 AT A RECORD DISTANCE PER DRAWINGS C07-101-1A SW'LY AND TANGENT FROM THE INTERSECTION OF HEIL AVENUE & COURSE "C8" SHOWN IN CURVE TABLE HEREON (PER DIRECTIVE OF CIVIL ENGINEER, ROBERT MCLEAN R.C.E).

LINE TABLE		
LINE #	BEARING	MEASURED DISTANCE
L1	N00°13'10"E	1168.26'
L2	S89°27'13"E	2272.63'
L3	N00°15'42"E	312.02'
L4	N45°25'27"E	94.15'
L5	S89°25'30"E	2368.11'
L6	N00°14'42"E	40.16'
L7	N60°09'52"E	614.08'
L8	S89°28'48"E	149.52'
L9	N74°46'32"E	859.59'

LINE TABLE		
LINE #	BEARING	MEASURED DISTANCE
L10	N00°14'32"E	150.88'
L11	N00°14'32"E	469.06'
L12	N89°25'43"W	422.88'
L13	N89°25'30"W	121.49'
L14	N00°13'10"E	150.86'
L15	N89°27'13"W	150.86'
L17	N89°25'59"W	65.00'
L18	N89°27'13"W	226.75'
L19	N89°25'30"W	150.88'
L20	N00°34'23"E	238.20'



DETAIL "A"
N.T.S



CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C1	90°19'37"	150.00'	236.48'
C2	90°17'04"	150.00'	236.36'
C3	45°09'33"	130.00'	102.46'
C4	45°09'45"	130.00'	102.47'
C5	90°20'42"	150.00'	236.52'
C6	59°55'10"	150.00'	156.87'
C7	30°21'20"	150.00'	79.47'
C8	15°44'40"	303.76'	83.47'
C9	12°29'43"	303.76'	66.25'

0' 100' 200' 400' 600'

SCALE: 1" = 200'

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

(A) CENTERLINE CONSTRUCTION ALIGNMENT PER THIS SURVEY

MARK	DATE	ITEM
REVISIONS		

COUNTY OF ORANGE
OC PUBLIC WORKS
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
CHANNEL REHABILITATION

ALIGNMENT SHEET

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY: 08/06/2020	BY: T.LOFGREEN & PARTY	SHEET NO.
MAPPING	BY: K.AHMED	12
OFFICE CHECK	BY: M.KUBISTY, PLS.	of
FIELD CHECK	BY: T.LOFGREEN	26
SCALE: 1"=200' W.O. #EF21470	FILE #1920PW-PM0004	
FILE: SUNSET CHANNEL_ALIGNMENT_2021 (005).DWG		

LEGEND

SYMBOL

- Bush
- Control Box Cable TV
- Control Box Electrical
- Control Box Traffic
- Control Point
- Fire Hydrant
- Gate, Double
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Manhole Storm Drain
- Meter Water
- Pier Column
- Pipe Inlet/Outlet
- Post
- Pull Box Cable TV
- Pull Box Electrical
- Pull Box Traffic
- Pull Box Undefined
- Sewer Cleanout
- Sign Board
- Sign Post
- Light Pole
- Tree
- Utility Pole
- Valve Gas
- Valve Irrigation
- Vault Telephone
- Signal-Steel

AREA PATTERN KEY

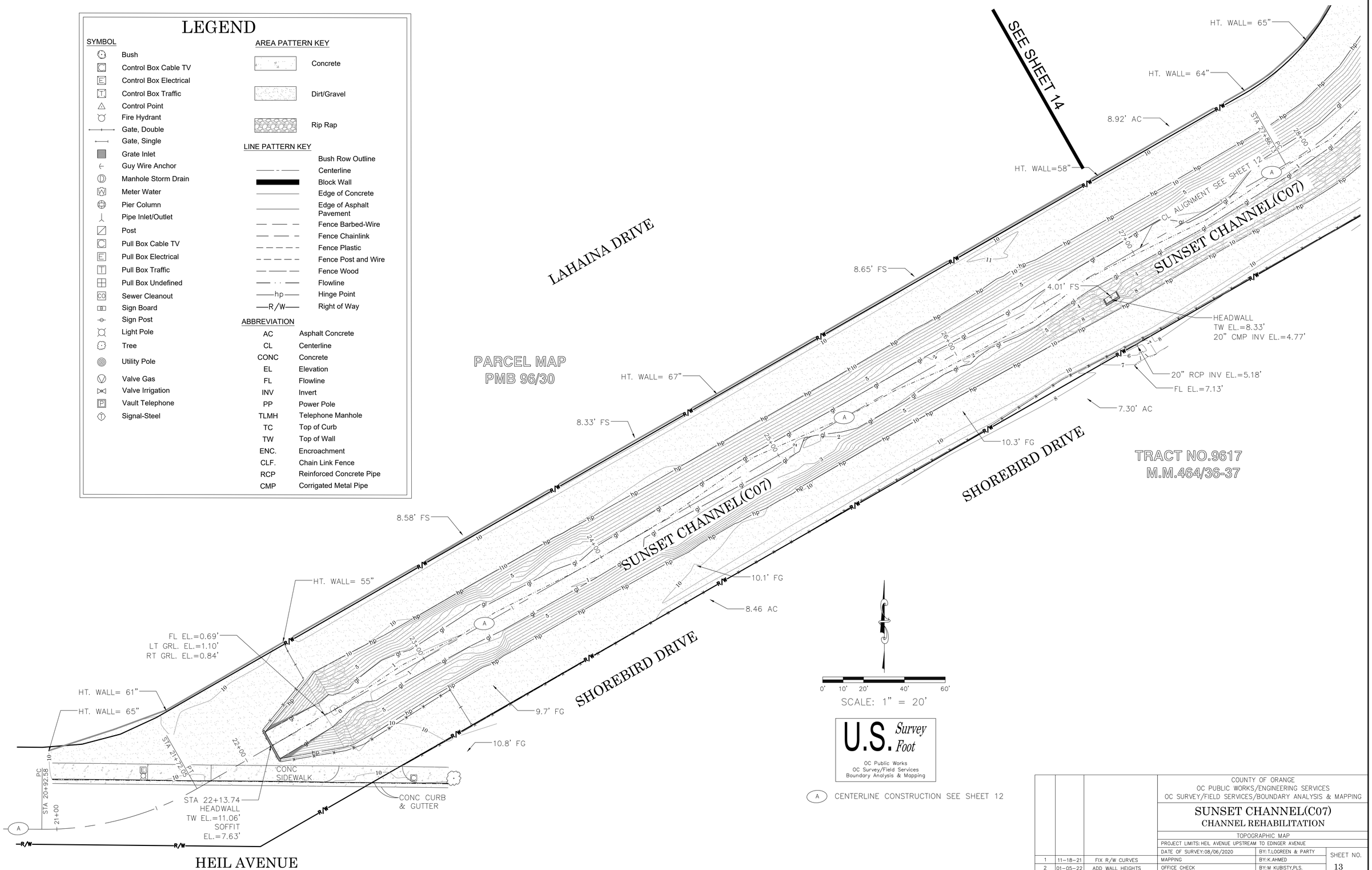
- Concrete
- Dirt/Gravel
- Rip Rap

LINE PATTERN KEY

- Bush Row Outline
- Centerline
- Block Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Barbed-Wire
- Fence Chainlink
- Fence Plastic
- Fence Post and Wire
- Fence Wood
- Flowline
- Hinge Point
- Right of Way

ABBREVIATION

AC	Asphalt Concrete
CL	Centerline
CONC	Concrete
EL	Elevation
FL	Flowline
INV	Invert
PP	Power Pole
TLMH	Telephone Manhole
TC	Top of Curb
TW	Top of Wall
ENC.	Encroachment
CLF.	Chain Link Fence
RCP	Reinforced Concrete Pipe
CMP	Corrigated Metal Pipe



#	DATE	ITEM
1	11-18-21	FIX R/W CURVES
2	01-05-22	ADD WALL HEIGHTS

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS/ENGINEERING SERVICES
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
CHANNEL REHABILITATION

TOPOGRAPHIC MAP

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY:08/06/2020		BY:T.LOGREEN & PARTY
MAPPING		BY:K.AHMED
OFFICE CHECK		BY:M KUBISTY,PLS.
FIELD CHECK		BY:T.LOFGREEN
SCALE:1" = 20'	W.O. #EF21470	FILE #1920PW-PM0004
FILE:SUNSET CHANNEL_TOPO_2022.DWG		

SHEET NO. 13 of 26

LEGEND

SYMBOL

- Bush
- Control Box Cable TV
- Control Box Electrical
- Control Box Traffic
- Control Point
- Fire Hydrant
- Gate, Double
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Manhole Storm Drain
- Meter Water
- Pier Column
- Pipe Inlet/Outlet
- Post
- Pull Box Cable TV
- Pull Box Electrical
- Pull Box Traffic
- Pull Box Undefined
- Sewer Cleanout
- Sign Board
- Sign Post
- Light Pole
- Tree
- Utility Pole
- Valve Gas
- Valve Irrigation
- Vault Telephone
- Signal-Steel

AREA PATTERN KEY

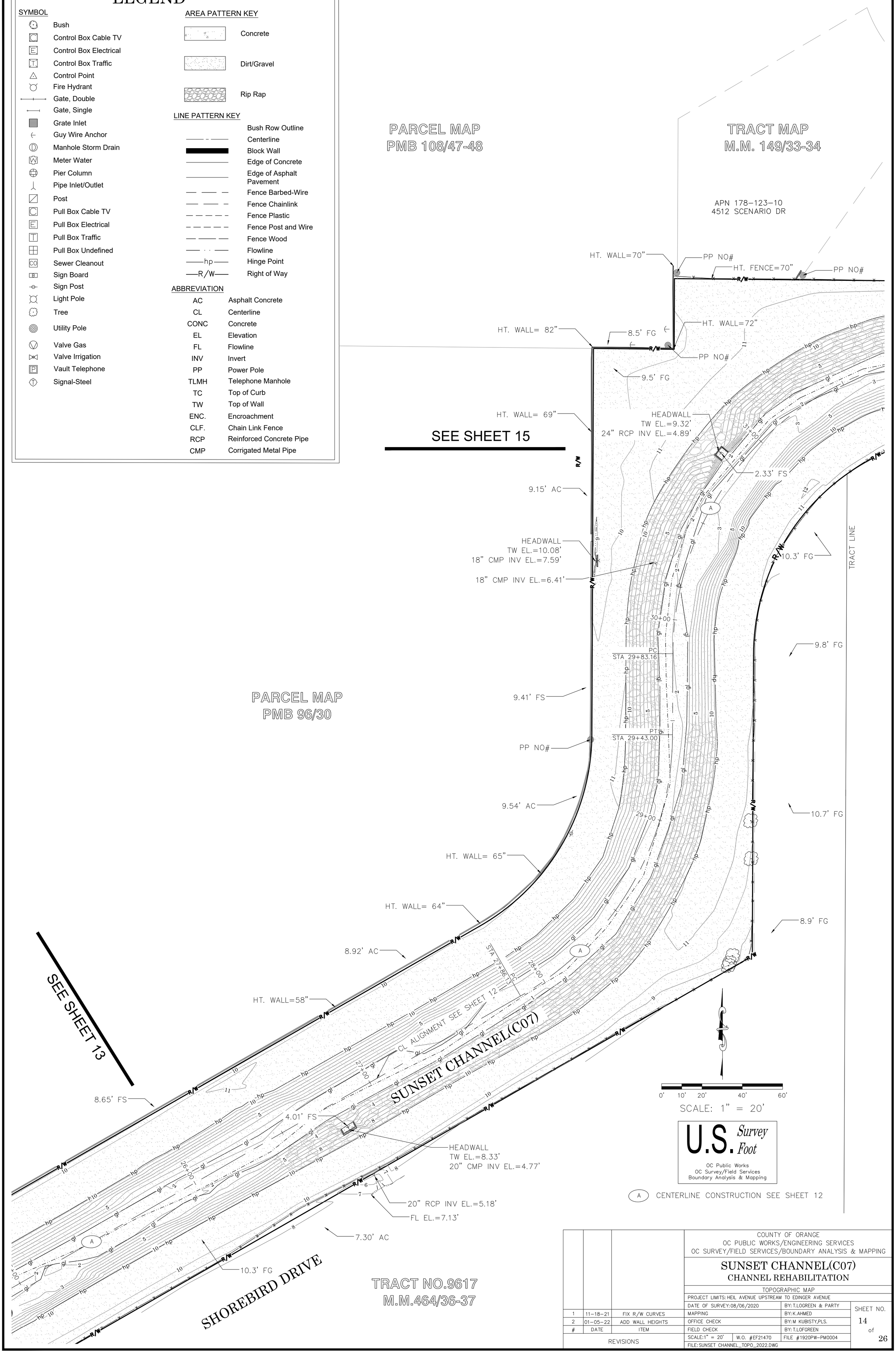
- Concrete
- Dirt/Gravel
- Rip Rap

LINE PATTERN KEY

- Bush Row Outline
- Centerline
- Block Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Barbed-Wire
- Fence Chainlink
- Fence Plastic
- Fence Post and Wire
- Fence Wood
- Flowline
- Hinge Point
- Right of Way

ABBREVIATION

AC	Asphalt Concrete
CL	Centerline
CONC	Concrete
EL	Elevation
FL	Flowline
INV	Invert
PP	Power Pole
TLMH	Telephone Manhole
TC	Top of Curb
TW	Top of Wall
ENC.	Encroachment
CLF.	Chain Link Fence
RCP	Reinforced Concrete Pipe
CMP	Corrigated Metal Pipe



#	DATE	ITEM
1	11-18-21	FIX R/W CURVES
2	01-05-22	ADD WALL HEIGHTS

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS/ENGINEERING SERVICES
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
CHANNEL REHABILITATION

TOPOGRAPHIC MAP

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY: 08/06/2020		BY: T.LOGREEN & PARTY
MAPPING		BY: K.AHMED
OFFICE CHECK		BY: M KUBISTY,PLS.
FIELD CHECK		BY: T.LOFGREEN
SCALE: 1" = 20'	W.O. #EF21470	FILE #1920PW-PM0004
FILE: SUNSET CHANNEL_TOPO_2022.DWG		

LEGEND

SYMBOL

- Bush
- Control Box Cable TV
- Control Box Electrical
- Control Box Traffic
- Control Point
- Fire Hydrant
- Gate, Double
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Manhole Storm Drain
- Meter Water
- Pier Column
- Pipe Inlet/Outlet
- Post
- Pull Box Cable TV
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- Pull Box Traffic
- Pull Box Undefined
- Sewer Cleanout
- Sign Board
- Sign Post
- Light Pole
- Tree
- Utility Pole
- Valve Gas
- Valve Irrigation
- Vault Telephone
- Signal-Steel

AREA PATTERN KEY

- Concrete
- Dirt/Gravel
- Rip Rap

LINE PATTERN KEY

- Bush Row Outline
- Centerline
- Block Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Barbed-Wire
- Fence Chainlink
- Fence Plastic
- Fence Post and Wire
- Fence Wood
- Flowline
- Hinge Point (hp)
- Right of Way (R/W)

ABBREVIATION

AC	Asphalt Concrete
CL	Centerline
CONC	Concrete
EL	Elevation
FL	Flowline
INV	Invert
PP	Power Pole
TLMH	Telephone Manhole
TC	Top of Curb
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CLF.	Chain Link Fence
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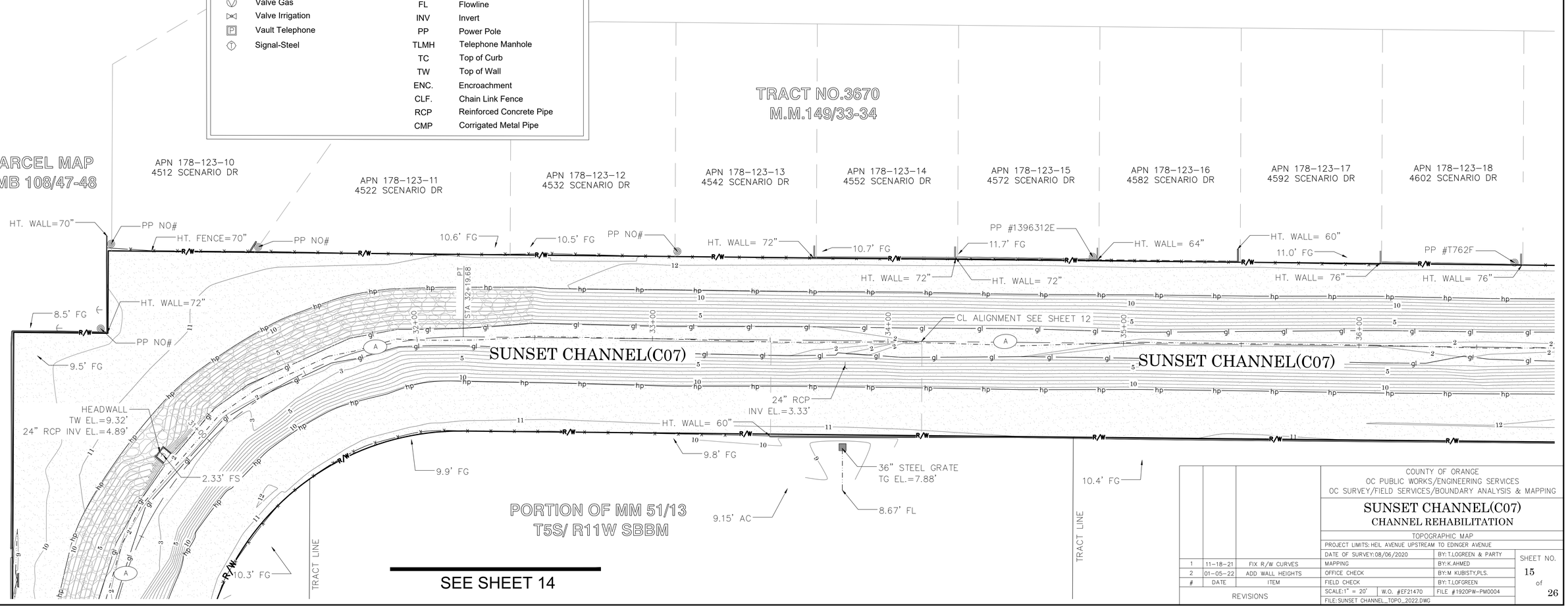

#	DATE	ITEM
1	11-18-21	FIX R/W CURVES
2	01-05-22	ADD WALL HEIGHTS

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS/ENGINEERING SERVICES
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
CHANNEL REHABILITATION

TOPOGRAPHIC MAP

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY: 08/06/2020		BY: T.LOGREEN & PARTY
MAPPING		BY: K.AHMED
OFFICE CHECK		BY: M. KUBISTY, PLS.
FIELD CHECK		BY: T.LOFGREEN
SCALE: 1" = 20'	W.O. #EF21470	FILE #1920PW-PM0004
FILE: SUNSET CHANNEL_TOPO_2022.DWG		

SHEET NO. 15 of 26

LEGEND

SYMBOL

- Bush
- Control Box Cable TV
- Control Box Electrical
- Control Box Traffic
- Control Point
- Fire Hydrant
- Gate, Double
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Manhole Storm Drain
- Meter Water
- Pier Column
- Pipe Inlet/Outlet
- Post
- Pull Box Cable TV
- Pull Box Electrical
- Pull Box Traffic
- Pull Box Undefined
- Sewer Cleanout
- Sign Board
- Sign Post
- Light Pole
- Tree
- Utility Pole
- Valve Gas
- Valve Irrigation
- Vault Telephone
- Signal-Steel

AREA PATTERN KEY

- Concrete
- Dirt/Gravel
- Rip Rap

LINE PATTERN KEY

- Bush Row Outline
- Centerline
- Block Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Barbed-Wire
- Fence Chainlink
- Fence Plastic
- Fence Post and Wire
- Fence Wood
- Flowline
- hp — Hinge Point
- R/W — Right of Way

ABBREVIATION

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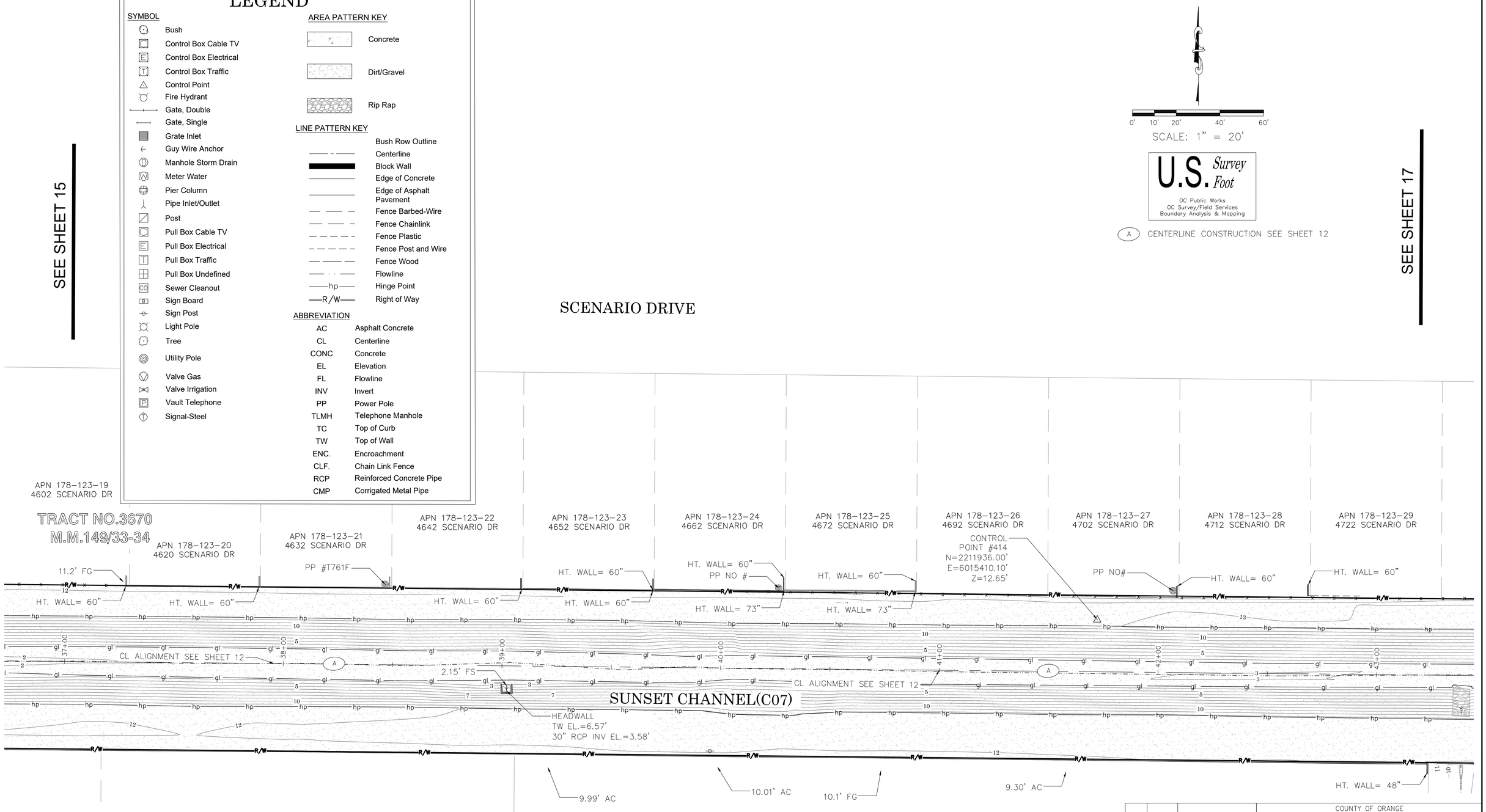

#	DATE	ITEM
1	11-18-21	FIX R/W CURVES
2	01-05-22	ADD WALL HEIGHTS

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS/ENGINEERING SERVICES
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
CHANNEL REHABILITATION

TOPOGRAPHIC MAP

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY: 08/06/2020		BY: T.LOGREEN & PARTY
MAPPING		BY: K.AHMED
OFFICE CHECK		BY: M KUBISTY,PLS.
FIELD CHECK		BY: T.LOFGREEN
SCALE: 1" = 20'	W.O. #EF21470	FILE #1920PW-PM0004
FILE: SUNSET CHANNEL_TOPO_2022.DWG		

SHEET NO. 16 of 26

LEGEND

SYMBOL

- Bush
- Control Box Cable TV
- Control Box Electrical
- Control Box Traffic
- Control Point
- Fire Hydrant
- Gate, Double
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
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- Light Pole
- Tree
- Utility Pole
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- Valve Irrigation
- Vault Telephone
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AREA PATTERN KEY

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LINE PATTERN KEY

- Bush Row Outline
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ABBREVIATION

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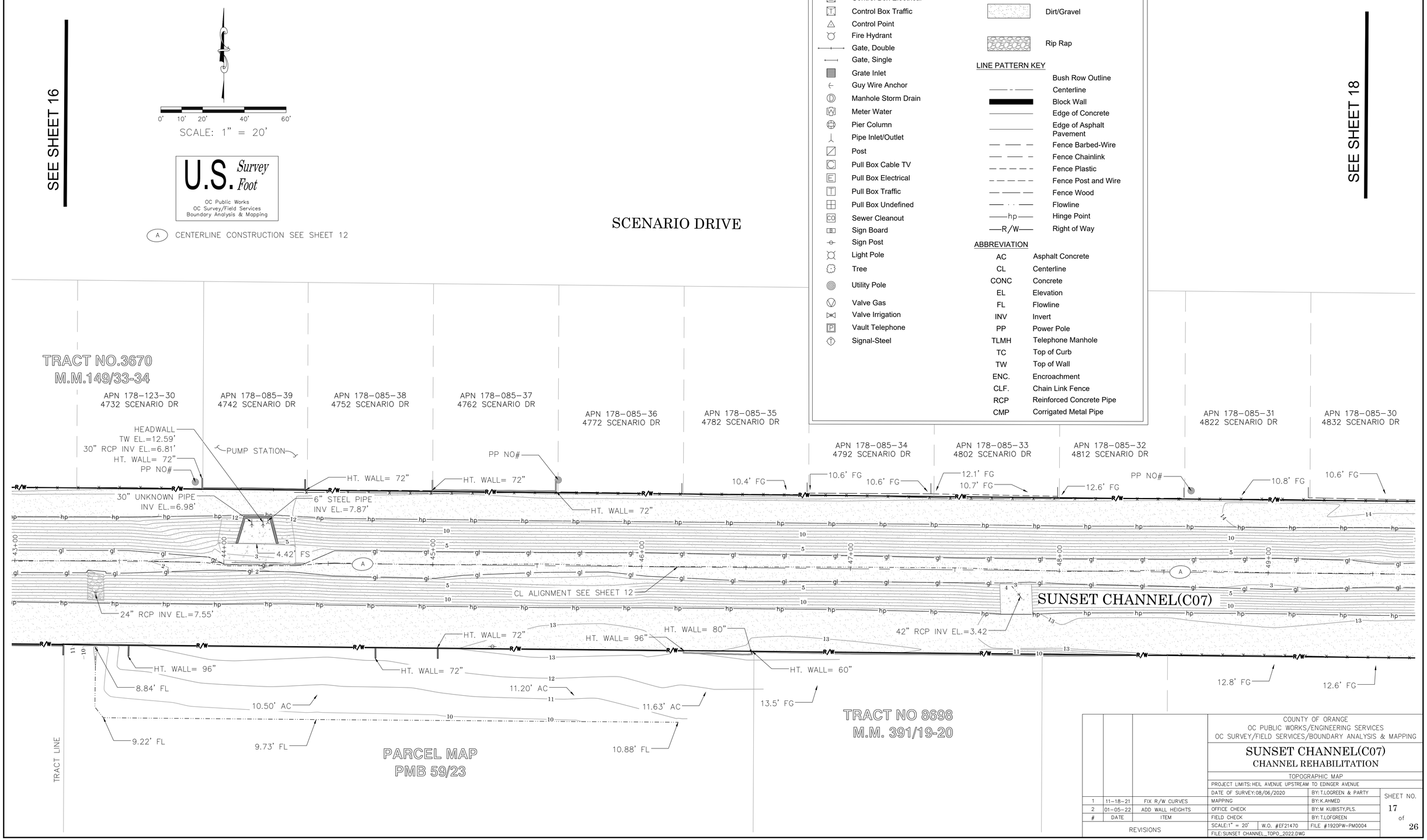

#	DATE	ITEM
1	11-18-21	FIX R/W CURVES
2	01-05-22	ADD WALL HEIGHTS

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS/ENGINEERING SERVICES
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
CHANNEL REHABILITATION

TOPOGRAPHIC MAP

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY:08/06/2020		BY: T.LOGREEN & PARTY
MAPPING		BY: K.AHMED
OFFICE CHECK		BY: M KUBISTY,PLS.
FIELD CHECK		BY: T.LOFGREEN
SCALE:1" = 20'	W.O. #EF21470	FILE #1920PW-PM0004
FILE: SUNSET CHANNEL_TOPO_2022.DWG		

SHEET NO. 17 of 26

LEGEND

SYMBOL

- Bush
- Control Box Cable TV
- Control Box Electrical
- Control Box Traffic
- Control Point
- Fire Hydrant
- Gate, Double
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Manhole Storm Drain
- Meter Water
- Pier Column
- Pipe Inlet/Outlet
- Post
- Pull Box Cable TV
- Pull Box Electrical
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- Valve Irrigation
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AREA PATTERN KEY

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LINE PATTERN KEY

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- hp — Hinge Point
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ABBREVIATION

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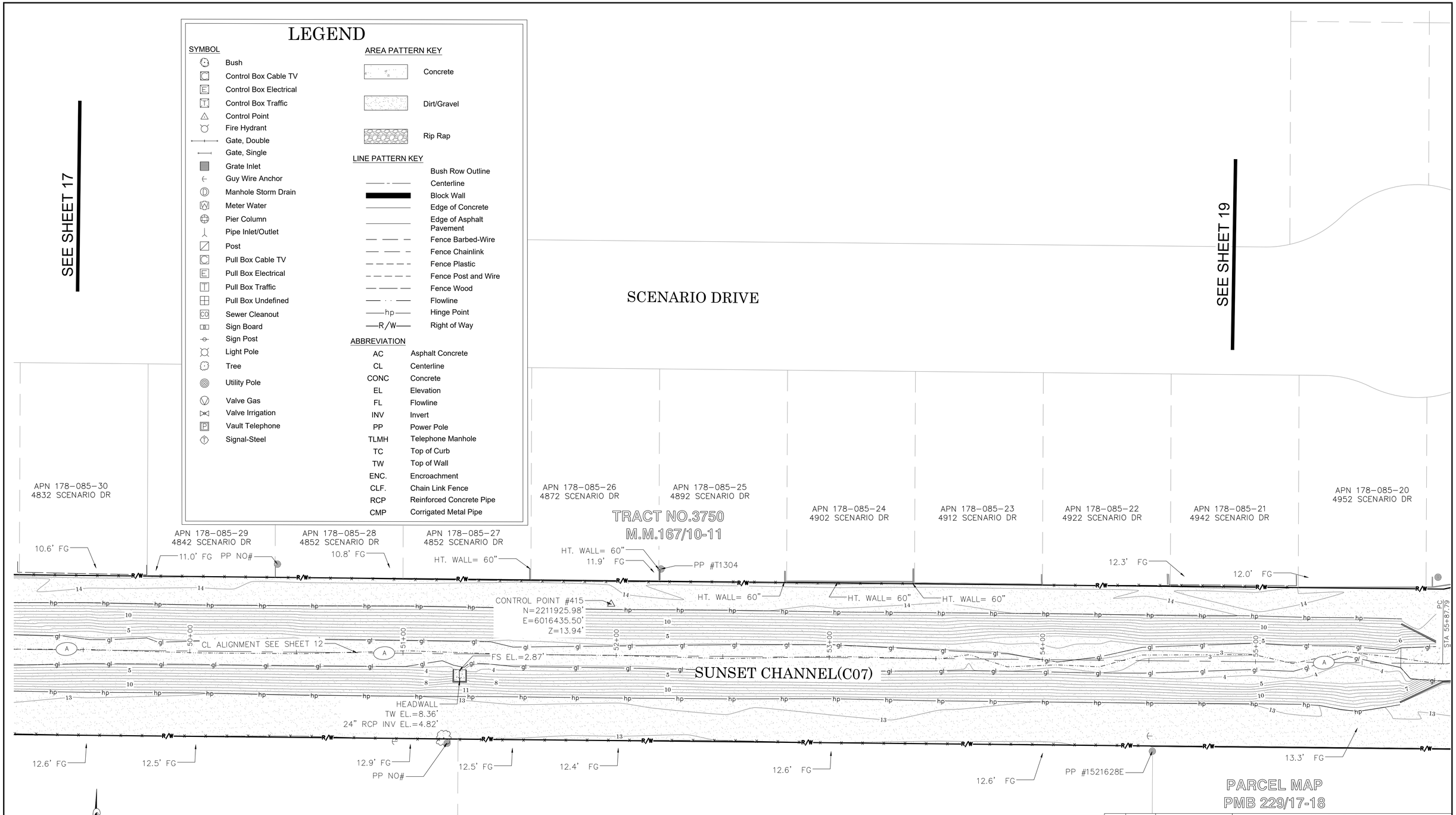


#	DATE	ITEM
1	11-18-21	FIX R/W CURVES
2	01-05-22	ADD WALL HEIGHTS

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS/ENGINEERING SERVICES
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

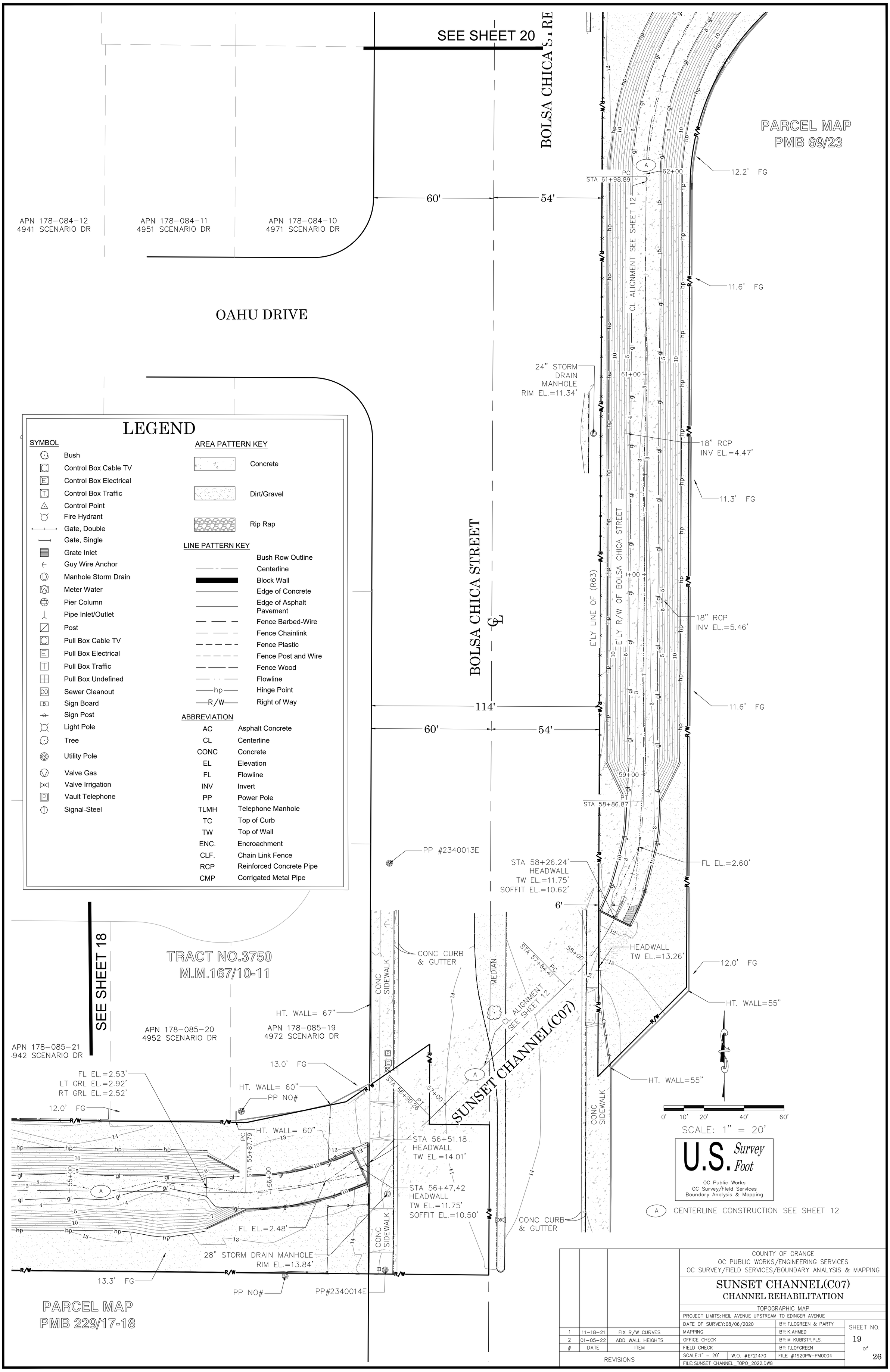
SUNSET CHANNEL(C07)
CHANNEL REHABILITATION

TOPOGRAPHIC MAP

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY: 08/06/2020		BY: T.LOGREEN & PARTY
MAPPING		BY: K.AHMED
OFFICE CHECK		BY: M KUBISTY,PLS.
FIELD CHECK		BY: T.LOFGREEN
SCALE: 1" = 20'	W.O. #EF21470	FILE #1920PW-PM0004
FILE: SUNSET CHANNEL_TOPO_2022.DWG		

SHEET NO. 18 of 26



LEGEND

SYMBOL

- Bush
- Control Box Cable TV
- Control Box Electrical
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- Gate, Double
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- Light Pole
- Tree
- Utility Pole
- Valve Gas
- Valve Irrigation
- Vault Telephone
- Signal-Steel

AREA PATTERN KEY

- Concrete
- Dirt/Gravel
- Rip Rap

LINE PATTERN KEY

- Bush Row Outline
- Centerline
- Block Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Barbed-Wire
- Fence Chainlink
- Fence Plastic
- Fence Post and Wire
- Fence Wood
- Flowline
- Hinge Point
- Right of Way

ABBREVIATION

AC	Asphalt Concrete
CL	Centerline
CONC	Concrete
EL	Elevation
FL	Flowline
INV	Invert
PP	Power Pole
TLMH	Telephone Manhole
TC	Top of Curb
TW	Top of Wall
ENC.	Encroachment
CLF.	Chain Link Fence
RCP	Reinforced Concrete Pipe
CMP	Corrigated Metal Pipe

COUNTY OF ORANGE
OC PUBLIC WORKS/ENGINEERING SERVICES
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
CHANNEL REHABILITATION

TOPOGRAPHIC MAP

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY: 08/06/2020 — BY: T.LOGREEN & PARTY

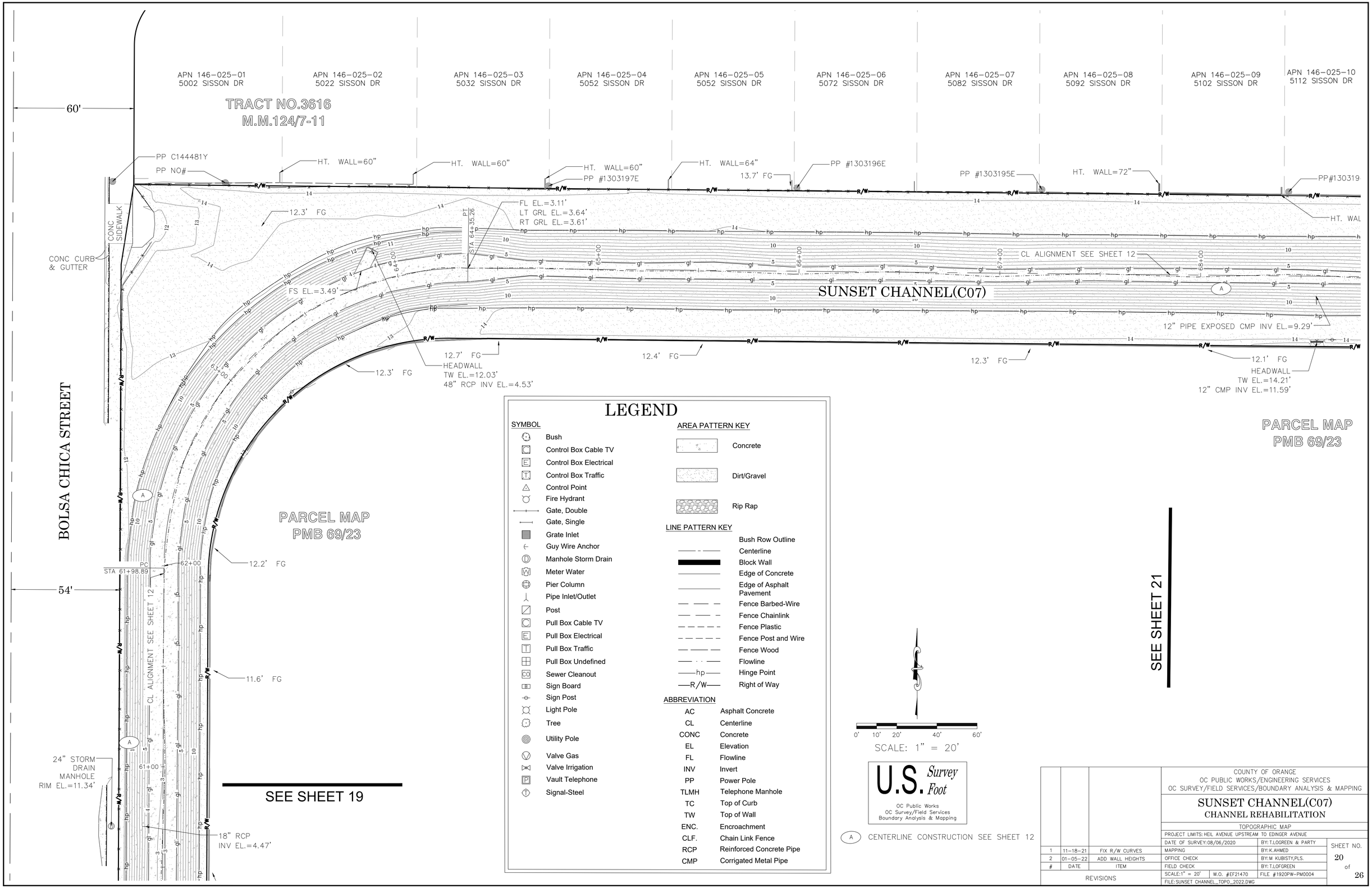
#	DATE	ITEM		
1	11-18-21	FIX R/W CURVES	MAPPING	BY: K.AHMED
2	01-05-22	ADD WALL HEIGHTS	OFFICE CHECK	BY: M KUBISTY,PLS.
			FIELD CHECK	BY: T.LOFGREEN

REVISIONS

SCALE: 1" = 20' — W.O. #EF21470 — FILE #1920PW-PM0004

FILE: SUNSET CHANNEL_TOPO_2022.DWG

SHEET NO. 19 of 26



LEGEND

SYMBOL

- Bush
- Control Box Cable TV
- Control Box Electrical
- Control Box Traffic
- Control Point
- Fire Hydrant
- Gate, Double
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Manhole Storm Drain
- Meter Water
- Pier Column
- Pipe Inlet/Outlet
- Post
- Pull Box Cable TV
- Pull Box Electrical
- Pull Box Traffic
- Pull Box Undefined
- Sewer Cleanout
- Sign Board
- Sign Post
- Light Pole
- Tree
- Utility Pole
- Valve Gas
- Valve Irrigation
- Vault Telephone
- Signal-Steel

AREA PATTERN KEY

- Concrete
- Dirt/Gravel
- Rip Rap

LINE PATTERN KEY

- Bush Row Outline
- Centerline
- Block Wall
- Edge of Concrete
- Edge of Asphalt Pavement
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COUNTY OF ORANGE
OC PUBLIC WORKS/ENGINEERING SERVICES
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
CHANNEL REHABILITATION

TOPOGRAPHIC MAP

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

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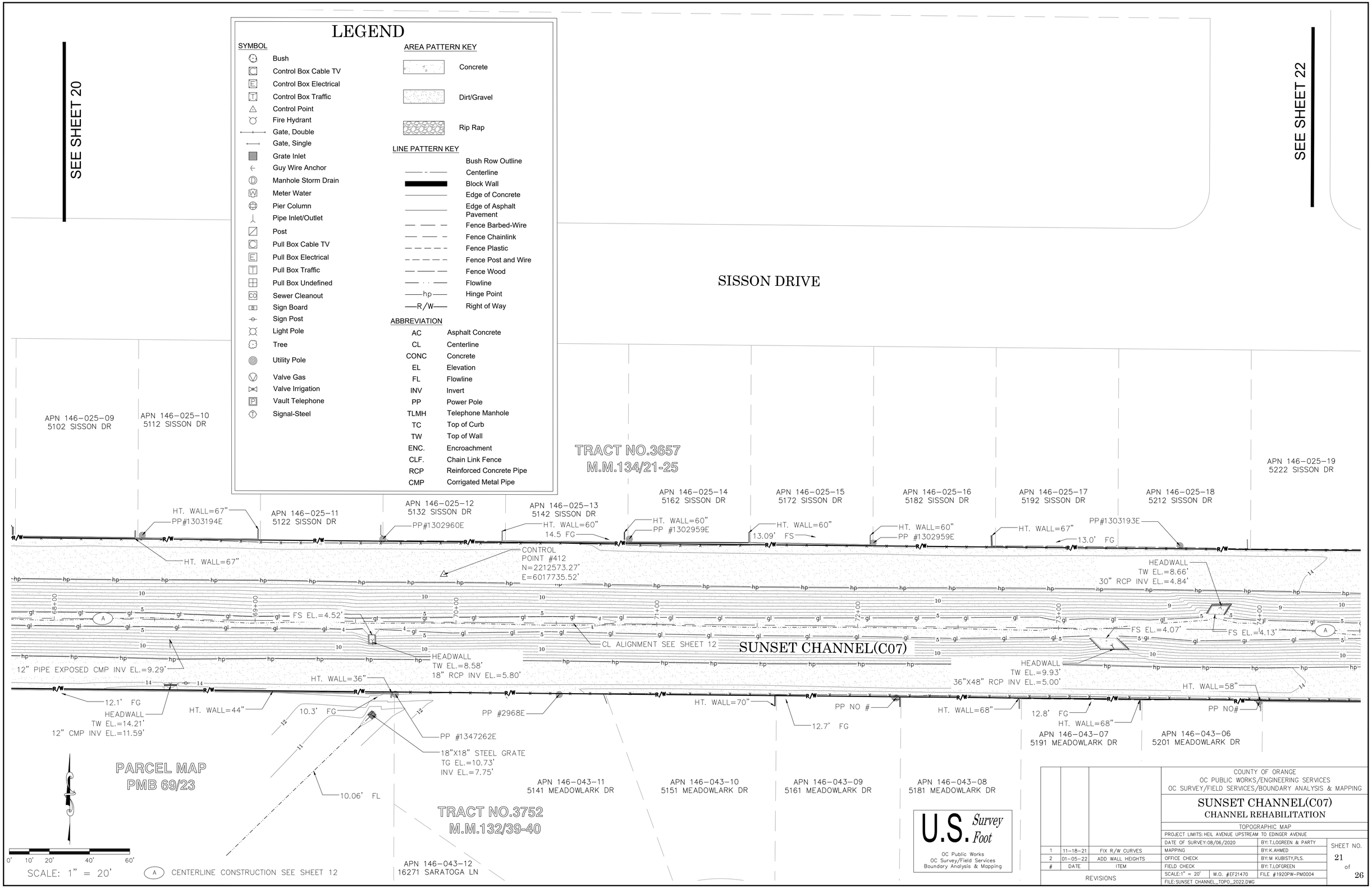
REVISIONS

SCALE: 1" = 20' | W.O. #EF21470 | FILE #1920PW-PM0004

FILE: SUNSET CHANNEL_TOPO_2022.DWG

SHEET NO. 20 of 26



LEGEND

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U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

#	DATE	ITEM
1	11-18-21	FIX R/W CURVES
2	01-05-22	ADD WALL HEIGHTS

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS/ENGINEERING SERVICES
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
CHANNEL REHABILITATION

TOPOGRAPHIC MAP

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY:08/06/2020		BY: T.LOGREEN & PARTY
MAPPING		BY: K.AHMED
OFFICE CHECK		BY: M KUBISTY,PLS.
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FILE: SUNSET CHANNEL_TOPO_2022.DWG		

LEGEND

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- Control Box Cable TV
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- Control Box Traffic
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- Light Pole
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- Utility Pole
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- Signal-Steel

AREA PATTERN KEY

- Concrete
- Dirt/Gravel
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LINE PATTERN KEY

- Bush Row Outline
- Centerline
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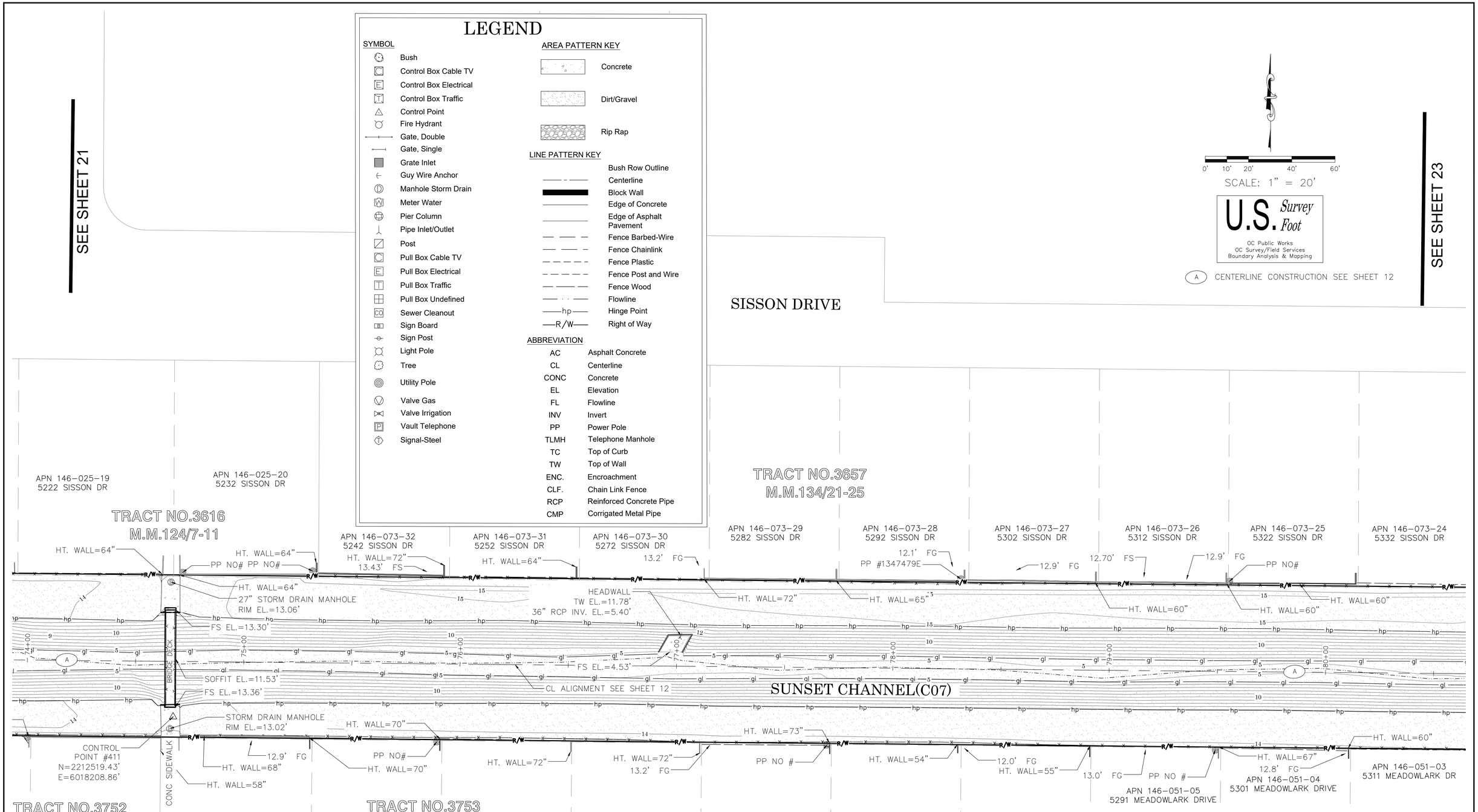

#	DATE	ITEM
1	11-18-21	FIX R/W CURVES
2	01-05-22	ADD WALL HEIGHTS

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS/ENGINEERING SERVICES
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SUNSET CHANNEL(C07)
CHANNEL REHABILITATION

TOPOGRAPHIC MAP

PROJECT LIMITS: HEIL AVENUE UPSTREAM TO EDINGER AVENUE

DATE OF SURVEY:08/06/2020		BY: T.LOGREEN & PARTY
MAPPING		BY: K.AHMED
OFFICE CHECK		BY: M KUBISTY,PLS.
FIELD CHECK		BY: T.LOFGREEN
SCALE: 1" = 20'	W.O. #EF21470	FILE #1920PW-PM0004

FILE: SUNSET CHANNEL_TOPO_2022.DWG

SHEET NO. 22 of 26

LEGEND

SYMBOL

- Bush
- Control Box Cable TV
- Control Box Electrical
- Control Box Traffic
- Control Point
- Fire Hydrant
- Gate, Double
- Gate, Single
- Grate Inlet
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- Manhole Storm Drain
- Meter Water
- Pier Column
- Pipe Inlet/Outlet
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- Pull Box Cable TV
- Pull Box Electrical
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- Light Pole
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AREA PATTERN KEY

- Concrete
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LINE PATTERN KEY

- Bush Row Outline
- Centerline
- Block Wall
- Edge of Concrete
- Edge of Asphalt Pavement
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- Fence Chainlink
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CLF.	Chain Link Fence
RCP	Reinforced Concrete Pipe
CMP	Corrigated Metal Pipe

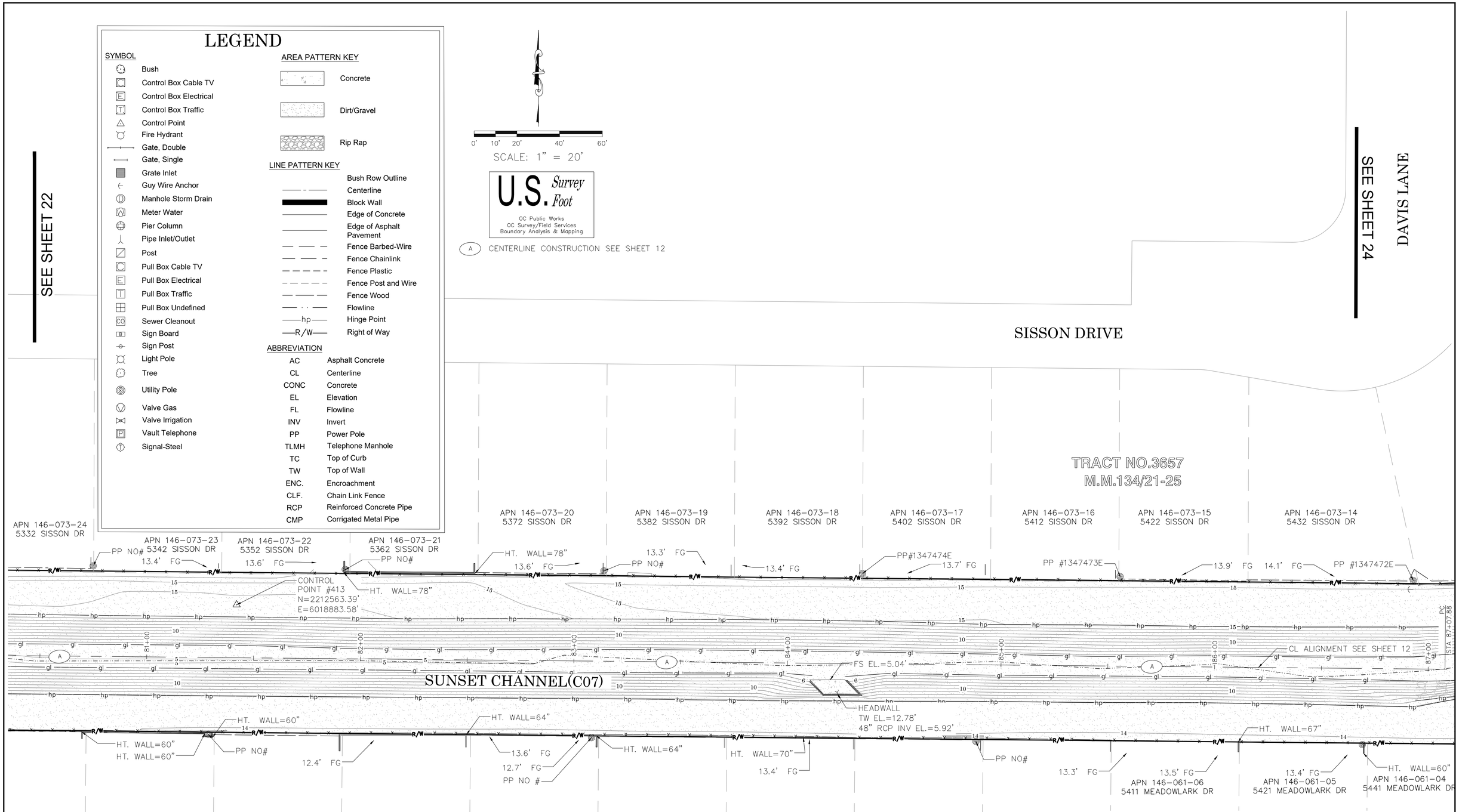
0' 10' 20' 40' 60'

SCALE: 1" = 20'

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

(A) CENTERLINE CONSTRUCTION SEE SHEET 12



#	DATE	ITEM
1	11-18-21	FIX R/W CURVES
2	01-05-22	ADD WALL HEIGHTS

REVISIONS

COUNTY OF ORANGE
OC PUBLIC WORKS/ENGINEERING SERVICES
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SUNSET CHANNEL(C07)
CHANNEL REHABILITATION

TOPOGRAPHIC MAP

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SCALE:1" = 20'	W.O. #EF21470	FILE #1920PW-PM0004
FILE: SUNSET CHANNEL_TOPO_2022.DWG		

SHEET NO. 23 of 26

LEGEND

SYMBOL

- Bush
- Control Box Cable TV
- Control Box Electrical
- Control Box Traffic
- Control Point
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AREA PATTERN KEY

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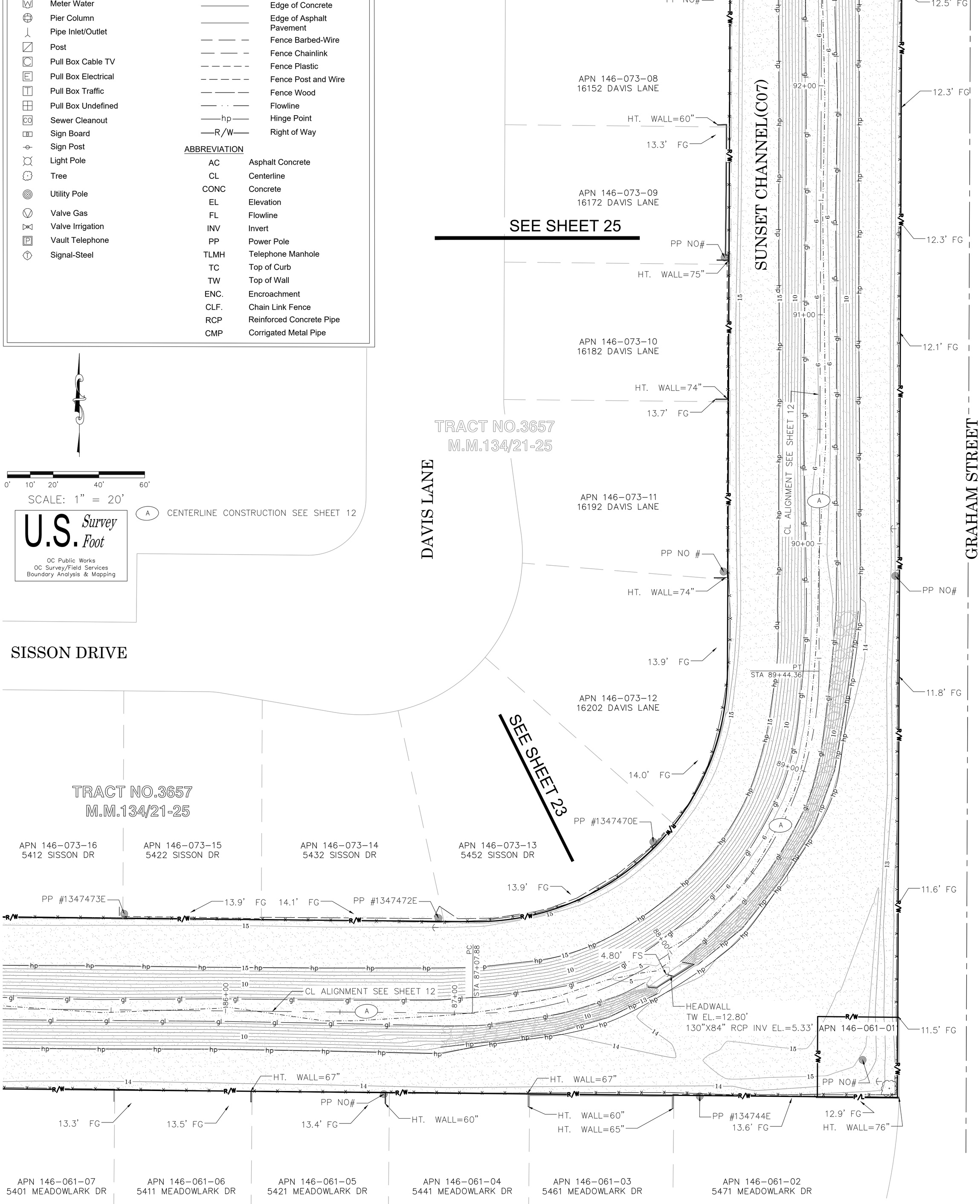

#	DATE	ITEM
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REVISIONS

COUNTY OF ORANGE
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SUNSET CHANNEL(C07)
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FILE: SUNSET CHANNEL_TOPO_2022.DWG		

SHEET NO. 24 of 26

LEGEND

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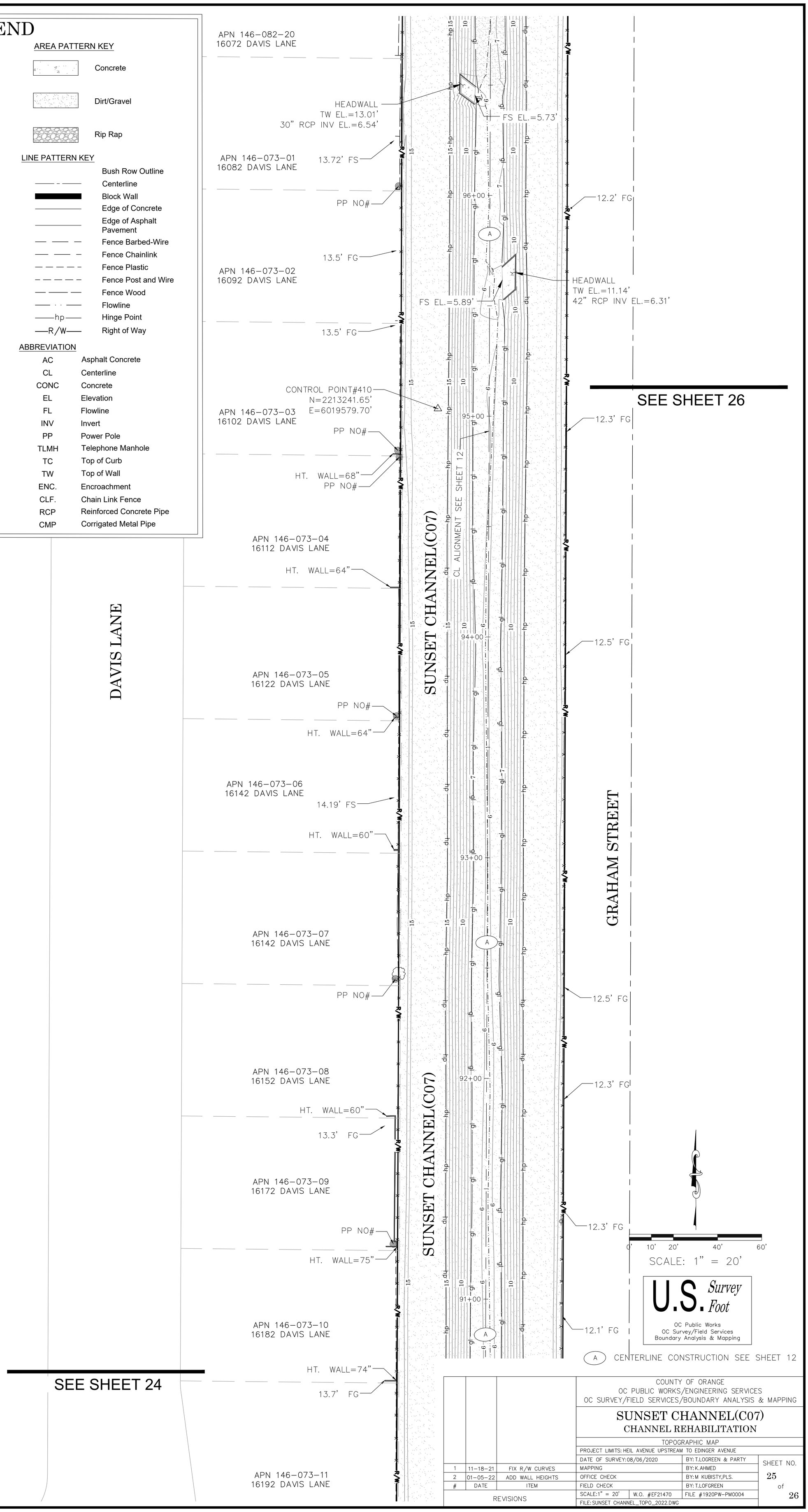

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REVISIONS

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FILE: SUNSET CHANNEL_TOPO_2022.DWG		

SHEET NO. 25 of 26

LEGEND

SYMBOL

- Bush
- Control Box Cable TV
- Control Box Electrical
- Control Box Traffic
- Control Point
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- Gate, Double
- Gate, Single
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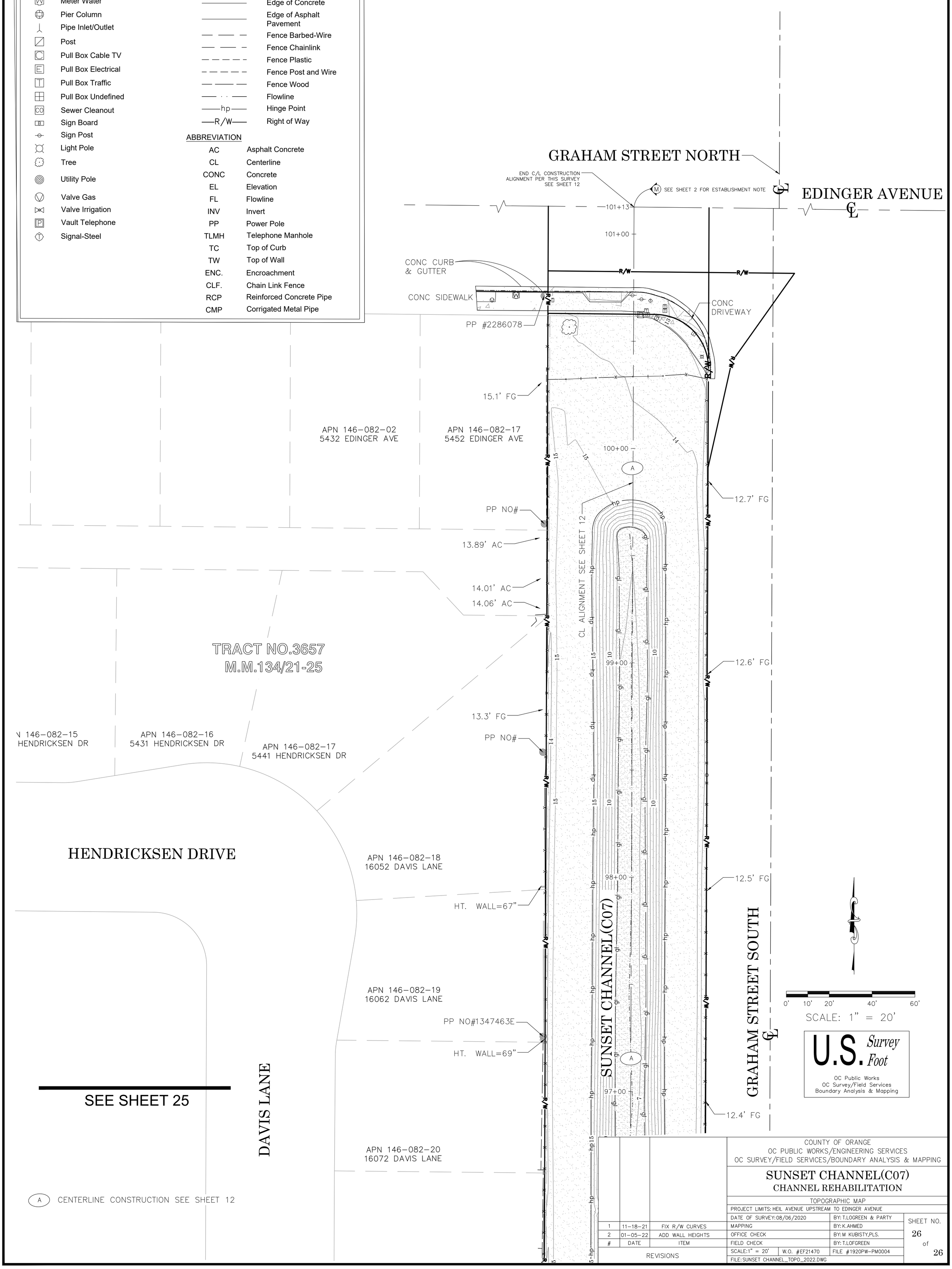

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REVISIONS

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SUNSET CHANNEL(C07)
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FILE: SUNSET CHANNEL_TOPO_2022.DWG

SHEET NO. 26 of 26