REVISIONS/CORRECTIONS							
NO.	DESCRIPTION	REVISE (R) VOID (V) ADD (A) SHEET NO.'S	TOTAL NO. SHEETS IN PLAN SET	NET CHANGE IMP. COVER (SQ. FT.)	TOTAL SITE IMP. COVER (SQ. FT.)/%	CITY OF MANOR APPROVAL DATE	DATE IMAGED
1	REVISE/ADD LOT LAYOUT	R – 1,4,5,6,7, 8,10,11,12,15,16,17,19 A – 9,13,18	19	0	0.00%		

PRELIMINARY PLANS

FOR

MANOR HEIGHTS PHASES 4 & 5

CITY OF MANOR, TRAVIS COUNTY, TEXAS

PLAN SUBMITTAL/REVIEW LOG

1ST SUBMITTAL TO CITY	01/08/2021
2ND SUBMITTAL TO CITY	02/12/2021
3RD SUBMITTAL TO CITY	04/01/2021
4TH SUBMITTAL TO CITY	06/22/2021

ENGINEER

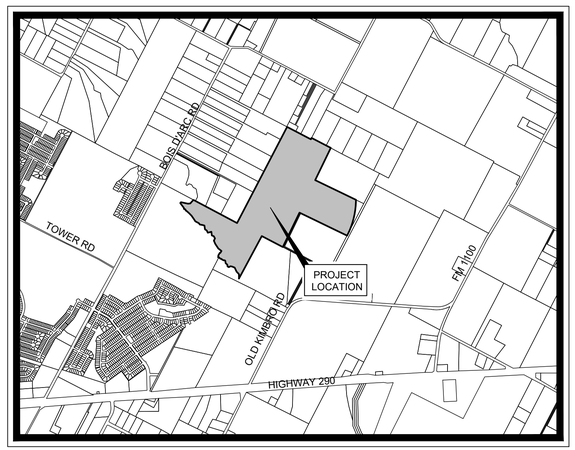
Kimley»Horn

501 S AUSTIN AVE
SUITE 1310
GEORGETOWN, TEXAS 78626
PH. (512) 520-0768
CONTACT: SARAH STARKEY, P.E.

STATE OF TEXAS
REGISTRATION NO. F-928

OWNER/DEVELOPER

FORESTAR REAL ESTATE GROUP, INC.
10700 PECAN PARK BLVD., SUITE 150
AUSTIN, TEXAS 78750
CONTACT: ELLIOT CONDOS



VICINITY MAP

SCALE: 1" = 2,000'

JUNE 2021

LEGAL DESCRIPTION

BEING 140.660 ACRES OF LAND LOCATED IN THE A.C. CALDWELL SURVEY NUMBER 52, ABSTRACT NUMBER 154, AND THE CITY OF MANOR TRAVIS COUNTY, TEXAS AND BEING A PORTION OF THAT CERTAIN 267.972 ACRE TRACT OF LAND CONVEYED TO SKY VILLAGE KIMBRO ESTATES, LLC AS DESCRIBED IN DOCUMENT NUMBER 2016214460, OFFICIAL PUBLIC RECORDS OF TRAVIS COUNTY, TEXAS.

AND BEING 33.721 ACRES OF 35.626 ACRES LOT 2, J.F. NAGLE ESTATES, A SUBDIVISION IN TRAVIS COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF RECORDED IN DOCUMENT NO. 199900207, OFFICIAL PUBLIC RECORDS, TRAVIS COUNTY, TEXAS, TOGETHER WITH A NON-EXCLUSIVE 60 FOOT WIDE ACCESS AND PUBLIC UTILITY EASEMENT AS CREATED AND MORE PARTICULARLY DESCRIBED IN THAT DECLARATION OF ACCESS AND PUBLIC UTILITY EASEMENT RECORDED IN DOCUMENT NO. 1999058184, OFFICIAL PUBLIC RECORDS, TRAVIS COUNTY, TEXAS, BEING THE SAME 35.626 ACRES CONVYED TO SKY VILLAGE KIMBRO ESTATES, LLC, OF THE OFFICIAL PUBLIC RECORDS OF TRAVIS COUNTY, TEXAS.

STATE OF TEXAS
SARAH F. STARKEY
145662
LICENSED
PROFESSIONAL ENGINEER
10/30/2024

SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	EXISTING CONDITIONS
3	AERIAL
4	OVERALL PRELIMINARY PLAN
5	PRELIMINARY PLAN (SHEET 1 OF 5)
6	PRELIMINARY PLAN (SHEET 2 OF 5)
7	PRELIMINARY PLAN (SHEET 3 OF 5)
8	PRELIMINARY PLAN (SHEET 4 OF 5)
9	PRELIMINARY PLAN (SHEET 5 OF 5)
10	UTILITY PLAN (SHEET 1 OF 3)
11	UTILITY PLAN (SHEET 2 OF 3)
12	UTILITY PLAN (SHEET 3 OF 3)
13	UTILITY PLAN (SHEET 4 OF 4)
14	OVERALL DRAINAGE MAP
15	INLET DRAINAGE AREA MAP (SHEET 1 OF 2)
16	INLET DRAINAGE AREA MAP (SHEET 2 OF 2)
17	INLET DRAINAGE AREA MAP (SHEET 3 OF 3)
18	INLET DRAINAGE AREA MAP (SHEET 4 OF 4)
19	DRAINAGE CALCULATIONS

APPROVAL AND AUTHORIZED FOR RECORD BY THE CITY COUNCIL FOR THE CITY OF MANOR, TEXAS.

DATED THIS ___ DAY OF _____, 20__

BY: _____
HONORABLE MAYOR DR. CHRISTOPHER HARVEY
MAYOR OF THE CITY OF MANOR, TEXAS

THIS PLAT HAS BEEN SUBMITTED TO AND CONSIDERED BY THE PLANNING AND ZONING COMMISSION OF THE CITY OF MANOR, TEXAS, AND IS HEREBY RECOMMENDED FOR APPROVAL BY THE CITY OF COUNCIL.

DATED THIS ___ DAY OF _____, 20__

BY: _____
P&Z CHAIRPERSON

No.	REVISIONS	DATE	BY
1	ADDED MEDIUM DENSITY LOTS, UPDATED UTILITIES, UPDATED DA MAP.	10/30/2024	SFS

Kimley»Horn
© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
10814 JOLLYVILLE ROAD, AVALLON IV, SUITE 200, AUSTIN, TX 78759
PHONE: 512-418-1771 FAX: 512-418-1791
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

STATE OF TEXAS
JASON B. REECE
127126
LICENSED
PROFESSIONAL ENGINEER
6/23/2021

KHA PROJECT 069255700	
DATE	JUNE 2021
SCALE:	AS SHOWN
DESIGNED BY:	GBM
DRAWN BY:	RJ
CHECKED BY:	JR

MANOR HEIGHTS
PHASES 4 & 5
CITY OF MANOR
TRAVIS COUNTY, TEXAS

SHEET NUMBER
1

PRELIMINARY PLAN

KHA PROJECT NO. 069255700

MANOR HEIGHTS PHASES 4 & 5

Plotted By:Cuplin, Warren Date:October 30, 2024 01:29:45pm File Path:K:\cous_civil\069255700 sky village south\Cad\preliminary phases 4_5\plansheets\COVER SHEET.dwg
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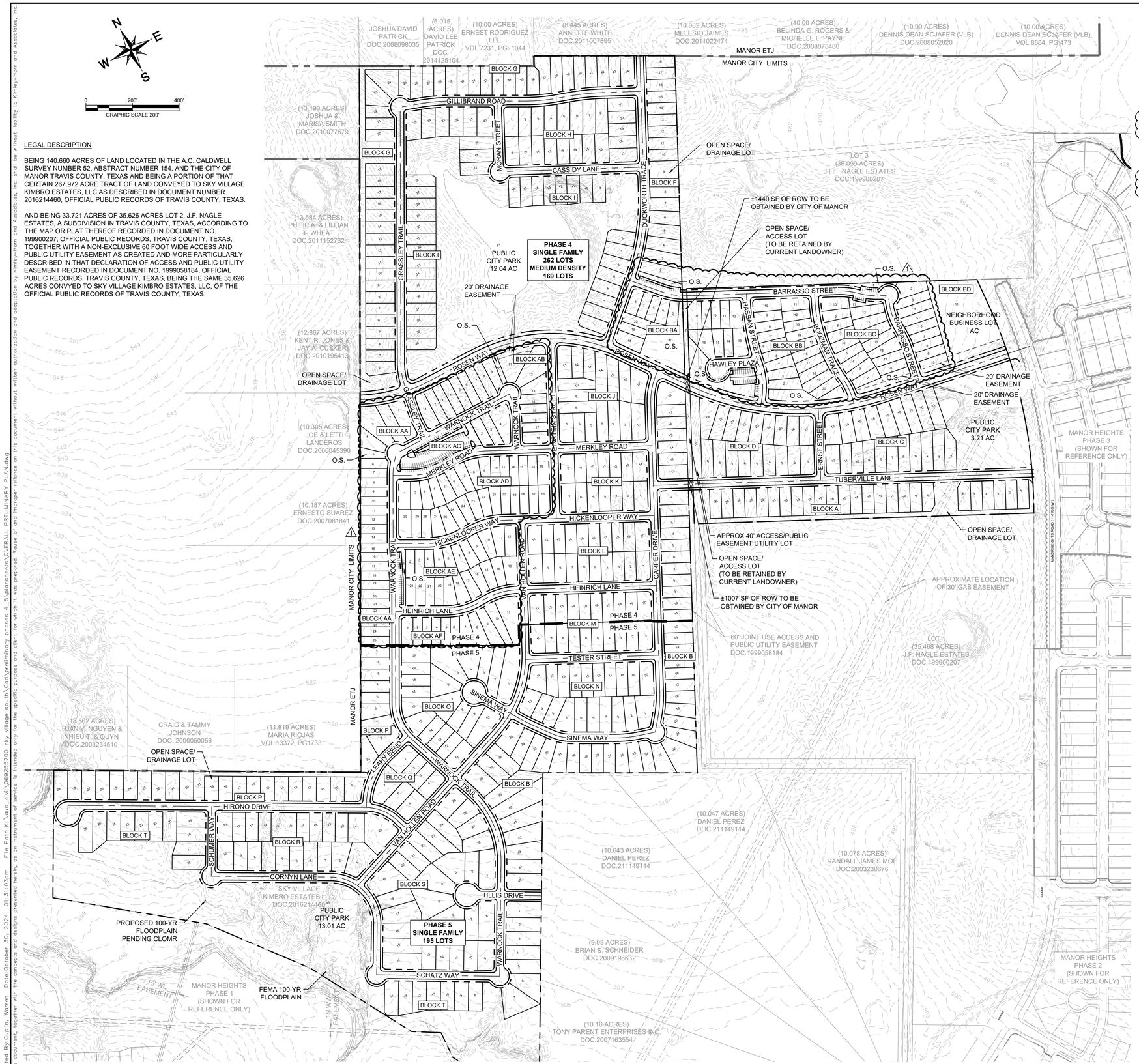

LEGAL DESCRIPTION

BEING 140.660 ACRES OF LAND LOCATED IN THE A.C. CALDWELL SURVEY NUMBER 52, ABSTRACT NUMBER 154, AND THE CITY OF MANOR TRAVIS COUNTY, TEXAS AND BEING A PORTION OF THAT CERTAIN 267.972 ACRE TRACT OF LAND CONVEYED TO SKY VILLAGE KIMBRO ESTATES, LLC AS DESCRIBED IN DOCUMENT NUMBER 2016214460, OFFICIAL PUBLIC RECORDS OF TRAVIS COUNTY, TEXAS.

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MANOR HEIGHTS PHASE 4 - GENERAL INFORMATION:

TOTAL ACREAGE	112.33
LINEAR FOOT OF 50' ROW	15,651
LINEAR FOOT OF 64' ROW	3,019
LINEAR FOOT OF ALLEY	5,798
NUMBER OF SINGLE FAMILY LOTS	262
ACREAGE OF SINGLE FAMILY LOTS	41.70
NUMBER OF MEDIUM DENSITY LOTS	169
ACREAGE OF MEDIUM DENSITY LOTS	22.48
NUMBER OF NEIGHBORHOOD BUSINESS LOTS	1
ACREAGE OF NEIGHBORHOOD BUSINESS LOTS	1.83
NUMBER OF OPEN SPACE/DRAINAGE LOTS	13
ACREAGE OF OPEN SPACE/DRAINAGE LOTS	1.85
NUMBER OF PUBLIC CITY PARK LOTS	2
ACREAGE OF PUBLIC CITY PARK LOTS	15.25
NUMBER OF OPEN SPACE/ACCESS LOTS	16
ACREAGE OF OPEN SPACE/ACCESS LOTS	2.83
NUMBER OF ACCESS/PUBLIC UTILITY EASEMENT LOTS	2
ACREAGE OF ACCESS/PUBLIC UTILITY EASEMENT LOTS	1.55
ACREAGE OF ROW	28.15
TOTAL NUMBER OF LOTS	445

MANOR HEIGHTS PHASE 5 - GENERAL INFORMATION:

TOTAL ACREAGE	60.43
LINEAR FOOT OF 50' ROW	8,915
NUMBER OF SINGLE FAMILY LOTS	195
ACREAGE OF SINGLE FAMILY LOTS	37.15
NUMBER OF PUBLIC CITY PARK LOTS	1
ACREAGE OF PUBLIC CITY PARK LOTS	13.01
NUMBER OF OPEN SPACE/DRAINAGE LOTS	1
ACREAGE OF OPEN SPACE/DRAINAGE LOTS	0.12
ACREAGE OF ROW	10.15
TOTAL NUMBER OF LOTS	197

SARAH E. STANLEY
145662
LICENSED
PROFESSIONAL ENGINEER
10/30/2024

LAND USE

Manor Heights Land Use

Land Use	Phase 2 Acreage	Phase 3 Acreage	Phase 4 Acreage	Phase 5 Acreage	Overall Acreage	% of Total Acreage in PUD	% of Total Acreage Provided
Single Family PUD SF-1	49.30	48.00	41.70	37.15	174.54	40.97%	40.97%
PUD Medium Density	11.85	-	33.11	-	45.33	10.64%	10.64%
Highway Commercial (C-2)	-	-	-	-	0.00	0.00%	0.00%
Neighborhood Business (NB)	1.62	-	1.83	-	3.22	0.76%	0.76%
HOA/Amenity Lot	-	0.88	1.55	-	2.37	0.56%	0.56%
City Parkland	-	3.26	15.25	7.95	27.81	6.53%	6.53%
Floodplain/Open Space	36.69	73.83	3.03	5.18	105.98	24.88%	24.88%
Major Roadways	11.23	20.67	15.86	10.15	66.73	15.67%	15.67%
Total	110.69	146.64	112.33	60.43	425.98	100%	100%

WET UTILITIES

Manor Heights Wet Utilities

Land Use	Phase 2 LUE'S	Phase 3 LUE'S	Phase 4 LUE'S	Phase 5 LUE'S	Total LUE'S Provided	Total LUE'S in PUD
Single Family PUD SF-1	252	284	262	195	993	935-995
PUD Medium Density	75	-	214	-	289	238-280
Highway Commercial (C-2)	-	-	-	-	0	244
Neighborhood Business (NB)	61	-	21	-	82	5
HOA/Amenity Lot	-	5	-	-	5	6
City Parkland	-	-	-	-	-	-
Floodplain/Open Space	-	-	-	-	-	-
Major Roadways	-	-	-	-	-	-
Total	388	289	497	195	1369	1428-1530

PARKLAND SUMMARY

Manor Heights Parkland Data		
Total Area of Development	477.75	AC
Required Parkland (5% of Total Area)	23.89	AC
Phase 2 Provided Parkland	1.33	AC
Phase 3 Provided Parkland	3.26	AC
Phase 4 Provided Parkland	15.25	AC
Phase 5 Provided Parkland (Outside Floodplain)	7.95	AC
Total Public City Parkland Provided	**27.81**	**AC**

OVERALL LOT SUMMARY

Manor Heights Lot Data

	Phase 2		Phase 3		Phase 4		Phase 5		Overall		Required	Compatible
Lot Width	Lot Count	Lot Mix	Lot Count	Lot Mix	Lot Count	Lot Mix	Lot Count	Lot Mix	Lot Count	Lot Mix	Lot Mix per PUD*	with PUD?
50'	177	70%	193	68%	236	90%	87	45%	693	69.79%	70%	YES
55'	75	30%	44	15%	26	10%	11	6%	156	15.71%	15%	YES
60'	0	0%	47	17%	0	0%	97	50%	144	14.50%	15%	YES
Total	**252**		**284**		**262**		**195**		**993**	100%	100%	YES

*The following percentages of the mix lot lot shall be met within SF-1 PUD areas within +/- 5%.

MINIMUM LOT SIZE, HEIGHT AND PLACEMENT REQUIREMENTS

LAND USE	FRONT YARD SETBACK (FT)	SIDE YARD SETBACK (FT)	STREET SIDE YARD SETBACK (FT)	REAR YARD SETBACK (FT)	MINIMUM LOT SIZE (SF)	MINIMUM LOT WIDTH (FT)	MAXIMUM HEIGHT LIMIT (FT)
PUD-SF-1	20	5	15	10	6250	50	35
PUD MEDIUM DENSITY	*10 OR 20	5	15	*20 OR 10	3300	30	35
C-2 AND NB	25	7	15	15	7500	50	60

No.	REVISIONS	DATE	BY
1	ADDED MEDIUM DENSITY LOTS	10/30/0024	SFS

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JASON B. REECE
127126
LICENSED
PROFESSIONAL ENGINEER
6/23/2021

KHA PROJECT 069255700
DATE JUNE 2021
SCALE: AS SHOWN
DESIGNED BY: GBM
DRAWN BY: RJ
CHECKED BY: JR

OVERALL PRELIMINARY PLAN

MANOR HEIGHTS
PHASES 4 & 5
CITY OF MANOR
TRAVIS COUNTY, TEXAS

SHEET NUMBER
4

Plotted By:Cuplin, Warren Date:October 30, 2024 01:31:03pm File Path:K:\aus-civil\069255700 sky village south\Cad\preliminary phases 4-5\plansheets\OVERALL PRELIMINARY PLAN.dwg
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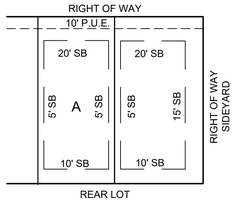
1

ADJACENT PROPERTY OWNERS MAILING ADDRESSES

BLOCK	LOT	TAX ID PARCEL @ PROPERTY ID	GEO ID	PROPERTY OWNER NAME	PROPERTY ADDRESS	CITY/STATE/ZIP	MAILING ADDRESS (IF DIFFERENT THAN THE PROPERTY ADDRESS)	MAILING CITY/STATE/ZIP
ABS 154	SUR 52	248124	0242800215	PARENT TONY ENTERPRISES INC	13550 OLD KIMBRO RD BLDG 1	MANOR TX 78653	13350 OLD KIMBRO RD BLDG 1	MANOR, TX 78653
ABS 154	SUR 52	705863	0242800277	SCHNEIDER BRIAN S	13550 OLD KIMBRO RD BLDG 2	MANOR , TX 78653	PO BOX 1303	ELGIN, TX 78621-8303
ABS 154	SUR 52	704715	0242800275	PEREZ DANIEL	13550 OLD KIMBRO RD BLDG 3	MANOR, TX 78653	12200 JOHNSON RD	MANOR, TX 78653
ABS 154	SUR 52	704712	0242800274	DUQUE STATES LLC	13550 OLD KIMBRO RD BLDG 4	MANOR, TX 78653	4868 E YAGER LN	MANOR, TX 78653
NAGLE J	LOT 1	248121	0242800212	FORESTAR USA REAL ESTATE GROUP	13354 OLD KIMBRO RD	MANOR, TX 78653	2221 E LAMAR BLVD STE 790	ARLINGTON, TX 76006
BLK A	LOT 2	500922	0242800265	JOHNSON CRAIG & TAMMY	BOIS D ARC LN	MANOR, TX 78653	13034 PARTRIDGE BEND DR	AUSTIN, TX 78729
ABS 456	SUR 64	442769	0242700310	DE LA LUZ EDUVIGES	14211 BOIS D ARC LN	MANOR, TX 78653	14211 BOIS DARC LANE	MANOR, TX 78653
ABS 456	SUR 64	460355	0242800254	RIOJAS MARIA	14217 BOIS D ARC LN	MANOR, TX 78613	14217 BOIS D ARC LN	MANOR, TX 78653-3814
ABS 456	SUR 64	460356	0242800255	SUAREZ ERNESTO	14121 BOIS D ARC LN	MANOR, TX 78653	14121 BOIS D ARC LN	MANOR, TX 78653
ABS 456	SUR 64	460357	0242800256	LANDEROS LETICIA C & JOSE J REVOCABLE TRUST	14315 BOIS D ARC LN	MANOR, TX 78653	14315 BOIS D ARC LN	MANOR, TX 78653
ABS 456	SUR 64	460358	0242800257	TELLO TIMOTHY & JESSICA ANDERSON	14409 BOIS D ARC LN	MANOR, TX 78653	900 BRISTOL CREEK BND	LAKEWAY, TX 78738
ABS 456	SUR 64	442776	0242800249	WHEAT PHILIP A & LILLIAN T	14425 BOIS D ARC LN	MANOR, TX 78653	14425 BOIS D ARC LN	MANOR, TX 78653
ABS 456	SUR 64	460351	0242800250	PHILIPS TAMMIE C	14515 BOIS D ARC RD	MANOR, TX 78653	14515 BOIS D ARC LN	MANOR, TX 78653
	LOT 5	500927	0242800270	PATRICK JOSHUA DAVID	14813 BOIS D ARC LN	MANOR, TX 78653	14809 BOIS D ARC LN	MANOR, TX 78653
ABS 456	SUR 64	248126	0242800217	PATRICK DAVID LEE	14817 BOIS D ARC LN	MANOR, TX 78653	14805 BOIS D ARC	MANOR, TX 78653
ABS 456	SUR 64	248145	0242800233	RODRIGUEZ ERNEST LEE	BOIS D ARC LN	MANOR, TX 78653	238 BEVERLY DRIVE	SAN ANTONIO, TX 78228-5141
ABS 456	SUR 64	248152	0242800239	UGARTE JOSE V & EVA BENITEZ	14831 BOIS D ARC LN 2	MANOR, TX 78653	14831 BOIS D ARC LN	MANOR, TX 78653
ABS 456	SUR 64	248149	0242800237	FRANCISCO DOMEINGUEZ JAIMES	14831 BOIS D ARC LN 4	MANOR, TX 78754	11606 AUS TEX ACRES LN	MANOR, TX 78753
NAGLE J E ESTATES	LOT 3	477400	0242800263	FORESTAR USA REAL ESTATE GROUP	13354 OLD KIMBRO RD	MANOR, TX 78653	2221 E LAMAR BLVD STE 790	ARLINGTON, TX 76006-7458
ABS 456	SUR 64	460349	0241700317	NGUYEN TUAN & NHIEU NGUYEN	BOIS D ARC LN	MANOR, TX 78613	124 SNOWFLAKE DR	ROUND ROCK, TX 78664-4063
BLK A	LOT 100	952002	0241790137	FORESTAR REAL ESTATE GROUP INC	ALLEN SHIVERS STREET	MANOR, TX 78653	2221 E LAMAR BLVD STE 790	ARLINGTON, TX 76006-7458

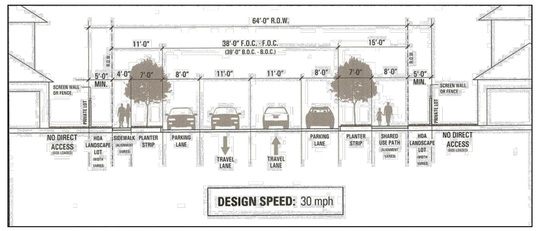
BUILDING SETBACK DETAIL

SCALE: 1"=60'

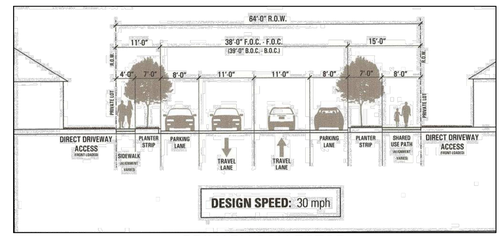


GENERAL NOTES

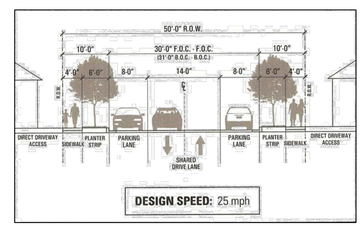
1. AN AERIAL PHOTOGRAPH MAY BE SUBMITTED AT THE PRELIMINARY PLAT STAGE RATHER THAN A TREE SURVEY.
2. AN INVENTORY OF SIGNIFICANT TREES THAT IDENTIFIES THE NUMBER OF SIGNIFICANT TREES BY CATEGORY (TREES 18 INCHES IN CALIPER OR LARGER AND TREES BETWEEN 8 AND 18 INCHES IN CALIPER) TO REMAIN DURING CONSTRUCTION AND THE NUMBER OF SIGNIFICANT TREES IN EACH CATEGORY DESIGNATED TO BE REMOVED DURING CONSTRUCTION SHALL BE SUBMITTED WITH CONSTRUCTION PLANS.
3. THE NUMBER OF REPLACEMENT TREES THAT WILL BE INSTALLED, WITHOUT THE IDENTIFICATION OF THE PARTICULAR LOCATION AT WHICH THE REPLACEMENT TREES SHALL BE INSTALLED, WILL BE SUBMITTED WITH FOR REVIEW WITH THE CONSTRUCTION PLANS, ON A PER PHASE BASIS.
4. SIGNIFICANT COTTONWOOD, HACKBERRY OR MESQUITE TREES REMOVED SHALL BE REPLACED AT A RATE OF 50% PER CALIPER INCH WITH AN APPROVED HARDWOOD TREE. ALL OTHER SIGNIFICANT TREES MUST BE REPLACED AT THE RATIOS DEFINED IN THE CITY'S SUBDIVISION ORDINANCE.
5. THE MINIMUM LOT AREA AND LOT WIDTH REQUIREMENTS (INCLUDING THE PERCENTAGE OF TOTAL LOTS WITHIN THE LAND PLAN THAT ARE PERMITTED TO BE OF SUCH MINIMUM LOT AREA AND LOT WIDTH CATEGORY), HEIGHT AND SETBACK REQUIREMENTS, LOT COVERAGE REQUIREMENTS, PARKING REQUIREMENTS, AND LANDSCAPING REQUIREMENTS FOR EACH LOT SHALL BE AS SET FORTH IN THE MINIMUM DEVELOPMENT STANDARDS FOR LOTS WITHIN THE LAND PLAN AND OUTSIDE THE CORPORATE BOUNDARIES OF THE CITY OR AS SET FORTH IN THE PUD VARIANCES FOR LOTS WITHIN THE PUD AND THE CORPORATE BOUNDARIES OF THE CITY.
6. LOTS SHALL NOT BE REQUIRED TO FACE A SIMILAR LOT ACROSS THE STREET.
7. SIDE LOT LINES SHALL NOT BE REQUIRED TO PROJECT AWAY FROM THE FRONT LOT LINE AT APPROXIMATELY RIGHT ANGLES TO STREET LINES AND RADIAL TO CURVED STREET LINES.
8. THE CONSTRUCTION OF SIDEWALKS IN RESIDENTIAL AND COMMERCIAL AREAS NEED NOT BE COMPLETED PRIOR TO FINAL APPROVAL AND ACCEPTANCE OF A FINAL PLAT, BUT MUST BE COMPLETED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY OR WITHIN 2 YEARS FROM THE APPROVAL OF THE FINAL PLAT. A COST ESTIMATE FOR THE CONSTRUCTION OF ANY SIDEWALKS IN RESIDENTIAL AREAS NOT CONSTRUCTED PRIOR TO THE FINAL APPROVAL AND ACCEPTANCE OF THE FINAL PLAT SHALL BE PREPARED AND A BOND FOR 110% OF SUCH COSTS SHALL BE POSTED WITH THE CITY. EACH YEAR THE DEVELOPER AND CITY MAY AGREE TO THE ADDITIONAL SIDEWALKS IN RESIDENTIAL AREAS THAT WERE COMPLETED DURING THE PREVIOUS YEAR AND REDUCE THE AMOUNT OF THE BOND TO REFLECT THE CONSTRUCTION COSTS OF THE SIDEWALKS THAT HAVE BEEN COMPLETED. SIDEWALKS IN RESIDENTIAL AREAS NOT COMPLETED PRIOR TO THE END OF THE 2-YEAR PERIOD SHALL BE COMPLETED BY THE DEVELOPER OR BY THE CITY WITH THE BOND FUNDS. FAILURE TO PROVIDE SUFFICIENT BONDS OR COMPLETE THE SIDEWALKS IN RESIDENTIAL AREAS SHALL NOT OBLIGATE THE CITY TO BUILD SIDEWALKS. THE CONSTRUCTION OF SIDEWALKS IN NON-RESIDENTIAL AREAS SHALL BE COMPLETED DURING SUBDIVISION CONSTRUCTION.
9. THE MINIMUM SINGLE-FAMILY RESIDENTIAL LOT SHALL BE 6,250 SQUARE FEET WITHIN PUD-SF-1, AND 3300 SQUARE FEET WITHIN PUD-MEDIUM DENSITY.
10. LOT FRONTAGE WIDTHS OF PUD SF-1 SHALL BE AS FOLLOWS:
    - 10.1. ALL LOTS EXCEPT THOSE IN CUL-DE-SACS OR ALONG A CURVED ROADWAY TO HAVE A MINIMUM FRONTAGE OF NO LESS THAN 50 FEET.
    - 10.2. LOTS ALONG CUL-DE-SACS AND CURVED ROADWAY TO HAVE A MINIMUM FRONTAGE OF NO LESS THAN 30 FEET AT THE RIGHT OF WAY, AND 50' WIDE FRONTAGE MEASURED AT THE PROPERTY SETBACK LINE.
11. SINGLE-FAMILY RESIDENTIAL LOTS HAVE A MINIMUM SIDE SET BACK OF FIVE (5) FEET FOR EACH LOT.
12. SINGLE-FAMILY RESIDENTIAL LOTS HAVE A MINIMUM REAR SET BACK OF TEN (10) FEET FOR EACH LOT.
13. OFF-STREET PARKING SPACES AND LOADING FACILITIES FOR THE COMMERCIAL TRACTS HAVE BEEN CONTEMPLATED AND WILL MEET CITY OF MANOR'S PARKING CALCULATION TABLES REQUIREMENTS.
14. EXISTING SITE TOPOGRAPHY CONTAINS RELATIVELY FLAT SLOPES RANGING FROM 1% TO 5%. PROPOSED ROADWAY GRADES WILL BE SUITABLE FOR EMERGENCY ACCESS AND WILL MEET CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL AND EMERGENCY SERVICE DISTRICT 12 REQUIREMENTS.
15. LANDSCAPING AND SCREENING WILL BE INTEGRATED INTO THE FINAL OVERALL SITE DESIGN AND WILL BE PROVIDED TO CREATE ADEQUATE BUFFERS TO SHIELD LIGHTS, NOISE, MOVEMENT OR ACTIVITIES FROM ADJACENT PROPERTIES.
16. NO DUPLEXES ARE ALLOWED IN THIS PUD.
17. THE DEVELOPMENT WILL BE IN ACCORDANCE WITH THE ENVIRONMENTAL ASSESSMENT FOR THE SITE.
18. MINIMUM ON-SITE PARKING REQUIREMENTS FOR PUD MEDIUM DENSITIES SHALL BE TWO SPACES FOR EACH LIVING UNIT AND ONE-HALF SPACE FOR EACH ADDITIONAL BEDROOM ABOVE TWO PLUS 10% ADDITIONAL SPACES FOR VISITOR PARKING. TANDEM SPACES ARE ALLOWABLE. OFF-SITE PARKING TO MEET THIS PARKING REQUIREMENT IS SUBJECT TO APPROVAL BY THE CITY DEVELOPMENT SERVICES DEPARTMENT.
19. ALL RESIDENTIAL HOMES WITHIN THIS PUD WILL FOLLOW THE DESIGN STANDARDS THAT ARE AGREED UPON BETWEEN THE DEVELOPER AND CITY OF MANOR.
20. THERE WILL BE A (4) FOUR HOUR MAXIMUM TIME LIMIT FOR THE PARKING ON RESIDENTIAL STREETS.
21. PUBLIC TRAILS SHOWN ALONG FLOODPLAIN, CITY PARKLAND, AND OPEN SPACE SHALL BE A MINIMUM OF 8' WIDE AND SHALL BE COMPOSED OF A COMBINATION OF DECOMPOSED GRANITE AND CONCRETE DEPENDING ON SITE CONDITIONS AT TRAIL LOCATIONS.
22. REQUIRED MINIMUM MASONRY REQUIREMENTS ARE PER THE DEVELOPMENT AGREEMENT DATED NOVEMBER 7, 2018, AS MAY BE AMENDED.
23. HOUSE PLANS SUBMITTED TO THE CITY SHALL BE STAMPED OR INDICATED BY LETTER OF TRANSMITTAL (OR SIMILAR LANGUAGE) THAT THE ARCHITECTURAL REVIEW COMMITTEE (ARC) HAS REVIEWED AND APPROVED THE HOUSE PLANS AS COMPLYING WITH THE PUD ARCHITECTURAL DESIGN REQUIREMENTS FOR CITY REVIEW.
24. LOTS UNDER THE PUD MEDIUM DENSITY CATEGORY SHALL BE ALLEY LOADED WHEN THE PROPOSED FRONT YARD SETBACK IS 10 FEET.



PRIMARY COLLECTOR
(WITH NO SF-1 FRONTAGE)



PRIMARY COLLECTOR
(WITH SF-1 FRONTAGE)



STANDARD RESIDENTIAL
ROADWAY SECTION

1

STATE OF TEXAS
SARAH F. STARKEY
145662
LICENSED
PROFESSIONAL ENGINEER
10/30/2024

STATE OF TEXAS
JASON B. REECE
127126
LICENSED
PROFESSIONAL ENGINEER
6/23/2021

No.	REVISIONS	DATE	BY
1	UPDATED PROPERTY OWNERS	10/30/2024	SFS

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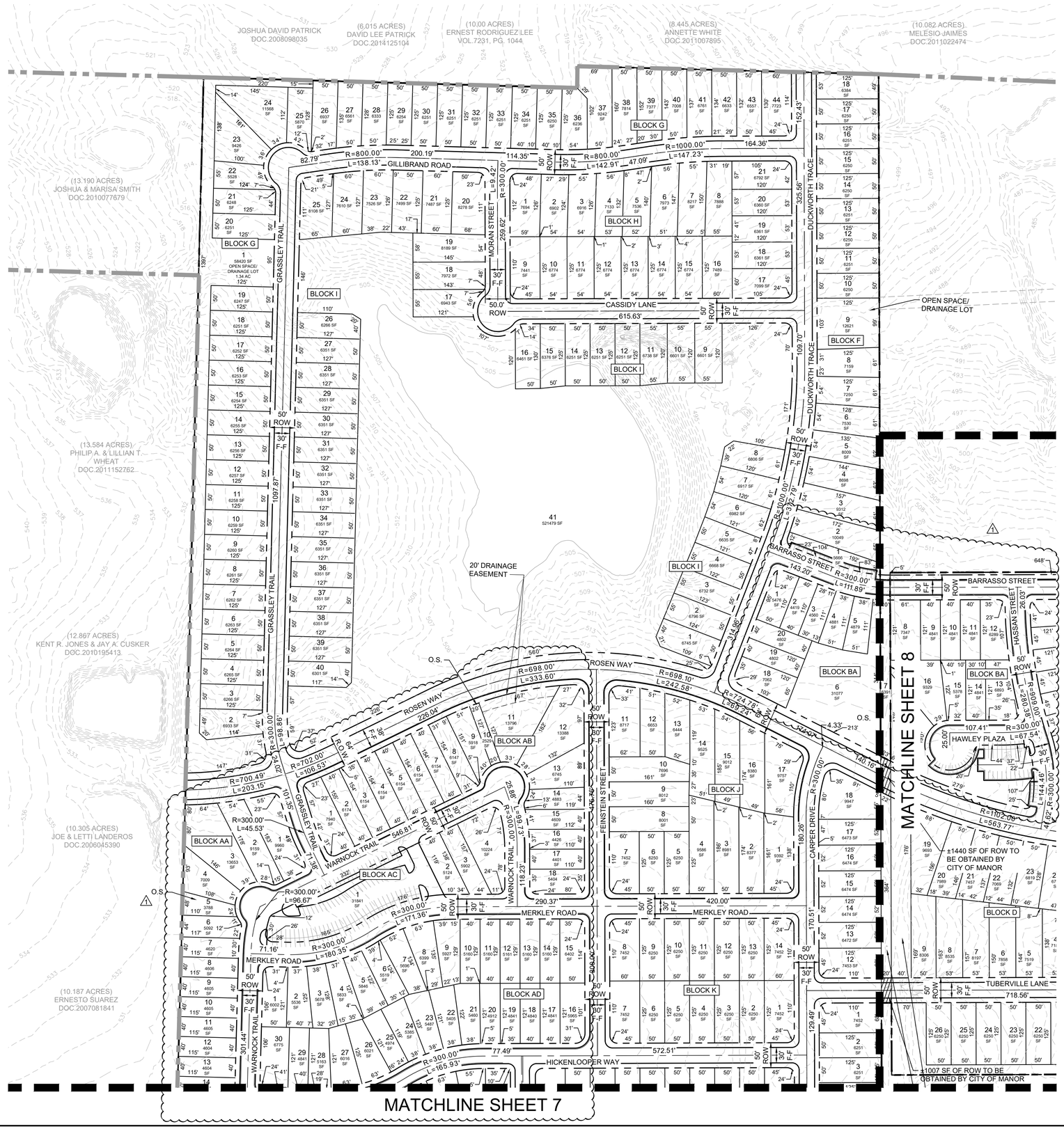
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

KHA PROJECT 069255700
DATE JUNE 2021
SCALE: AS SHOWN
DESIGNED BY: GBM
DRAWN BY: RJ
CHECKED BY: JR

PRELIMINARY PLAN
(SHEET 1 OF 5)

MANOR HEIGHTS
PHASES 4 & 5
CITY OF MANOR
TRAVIS COUNTY, TEXAS

SHEET NUMBER
5



LEGEND

- EXISTING PROPERTY BOUNDARY
- PROPOSED PROPERTY BOUNDARY
- PHASE LINE
- PROPOSED SIDEWALK
- EXISTING 100-YEAR FLOODPLAIN
- PROPOSED 100-YEAR FLOODPLAIN
- PROPOSED EASEMENT
- OFFSITE EASEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING CONTOUR
- ROW TO BE OBTAINED BY THE CITY OF MANOR

N E S W

0 100' 200'
GRAPHIC SCALE 100'

STATE OF TEXAS
SARAH F. STARKEY
145662
LICENSED
PROFESSIONAL ENGINEER
10/30/2024

STATE OF TEXAS
JASON B. REECE
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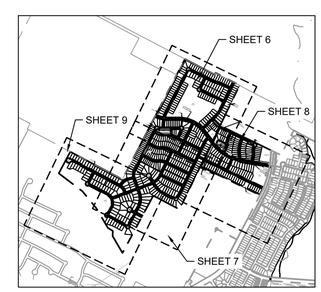
LICENSED
PROFESSIONAL ENGINEER
6/23/2021



KEY MAP
N.T.S.

NOTES:

1. SEE SHEET 4 FOR LINE AND CURVE TABLES.
2. ALL PAVEMENT DIMENSIONS ARE TO THE FACE OF CURB.

No.	REVISIONS	DATE	BY
1	ADDED MEDIUM DENSITY LOTS	10/30/2024	SFS

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KHA PROJECT 069255700
DATE JUNE 2021
SCALE AS SHOWN
DESIGNED BY: GBM
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PRELIMINARY PLAN (SHEET 2 OF 5)

MANOR HEIGHTS
PHASES 4 & 5
CITY OF MANOR
TRAVIS COUNTY, TEXAS

SHEET NUMBER
6

Plotted By: Caplin, Warren Date: October 30, 2024 01:33:43pm File Path: K:\aus_civil\069255700 sky village south\Cad\preliminary phases 4_5\plansheets\PRELIMINARY PLAN SHEET.dwg
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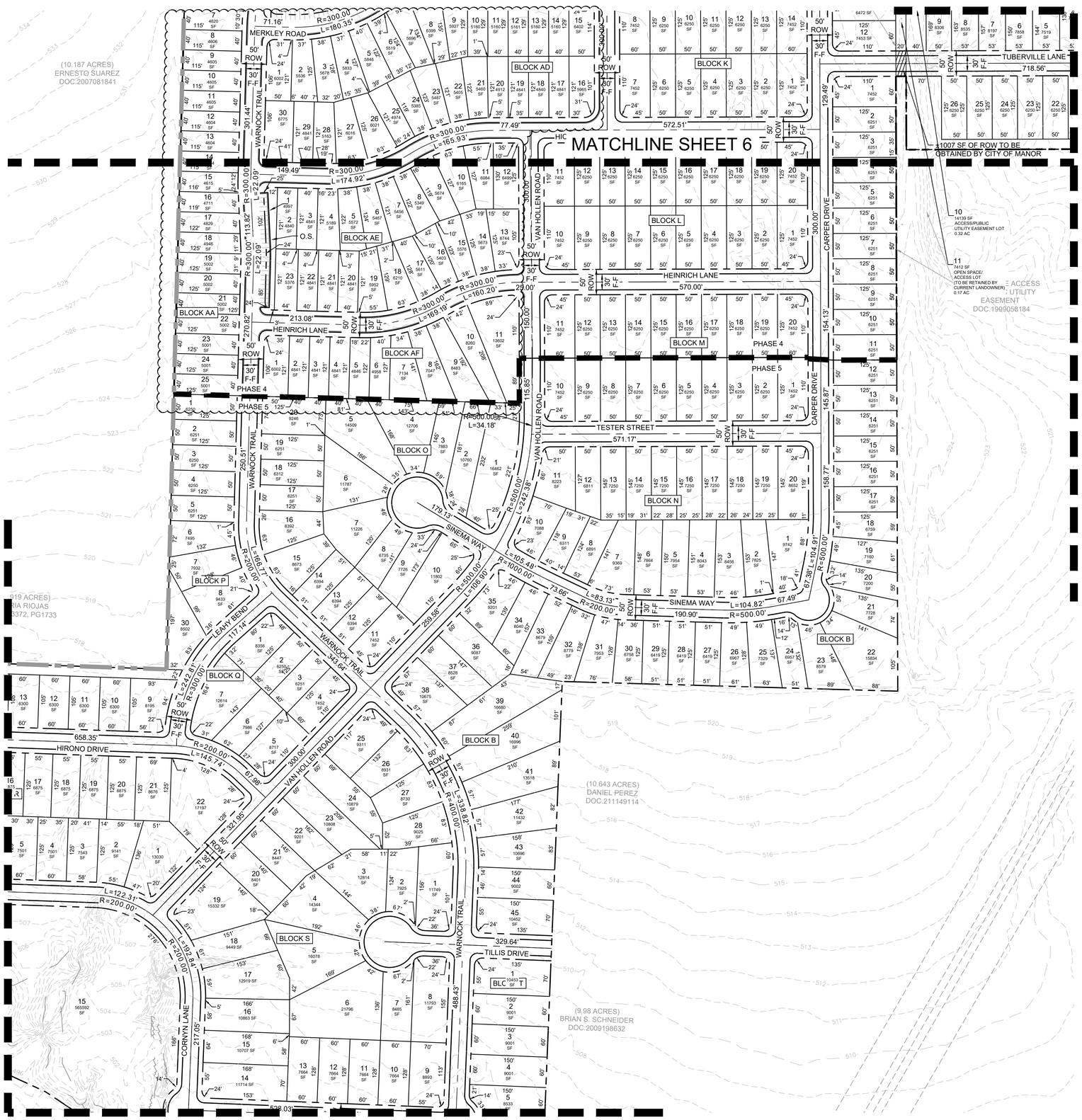

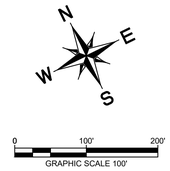

LEGEND

- EXISTING PROPERTY BOUNDARY
- PROPOSED PROPERTY BOUNDARY
- PHASE LINE
- PROPOSED SIDEWALK
- EXISTING 100-YEAR FLOODPLAIN
- PROPOSED 100-YEAR FLOODPLAIN
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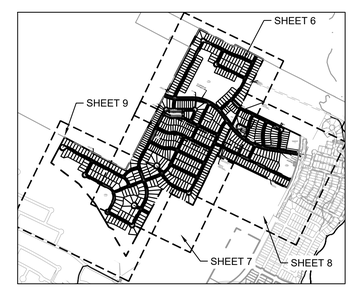
- OFFSITE EASMENT
- PROPOSED ROAD CENTERLINE
- EXISTING CONTOUR
- ROW TO BE OBTAINED BY THE CITY OF MANOR

STATE OF TEXAS
SARAH P. HARKEY
145662
LICENSED
PROFESSIONAL ENGINEER
10/30/2024



KEY MAP
N.T.S.

NOTES:

1. SEE SHEET 4 FOR LINE AND CURVE TABLES.
2. ALL PAVEMENT DIMENSIONS ARE TO THE FACE OF CURB.

No.	REVISIONS	DATE	BY
1	ADDED MEDIUM DENSITY LOTS	10/30/2024	SFS

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STATE OF TEXAS
JASON B. REECE
127126
LICENSED
PROFESSIONAL ENGINEER
6/23/2021

KHA PROJECT	069255700
DATE	JUNE 2021
SCALE:	AS SHOWN
DESIGNED BY:	GBM
DRAWN BY:	RJ
CHECKED BY:	JR

PRELIMINARY PLAN (SHEET 3 OF 5)

MANOR HEIGHTS
PHASES 4 & 5
CITY OF MANOR
TRAVIS COUNTY, TEXAS

SHEET NUMBER
7

Plotted By:Guplin, Warren Date:October 30, 2024 01:33:53pm File Path:K:\aus_civil\069255700 sky village south\Cad\preliminary phases 4_5\plansheets\PRELIMINARY PLAN SHEET.dwg
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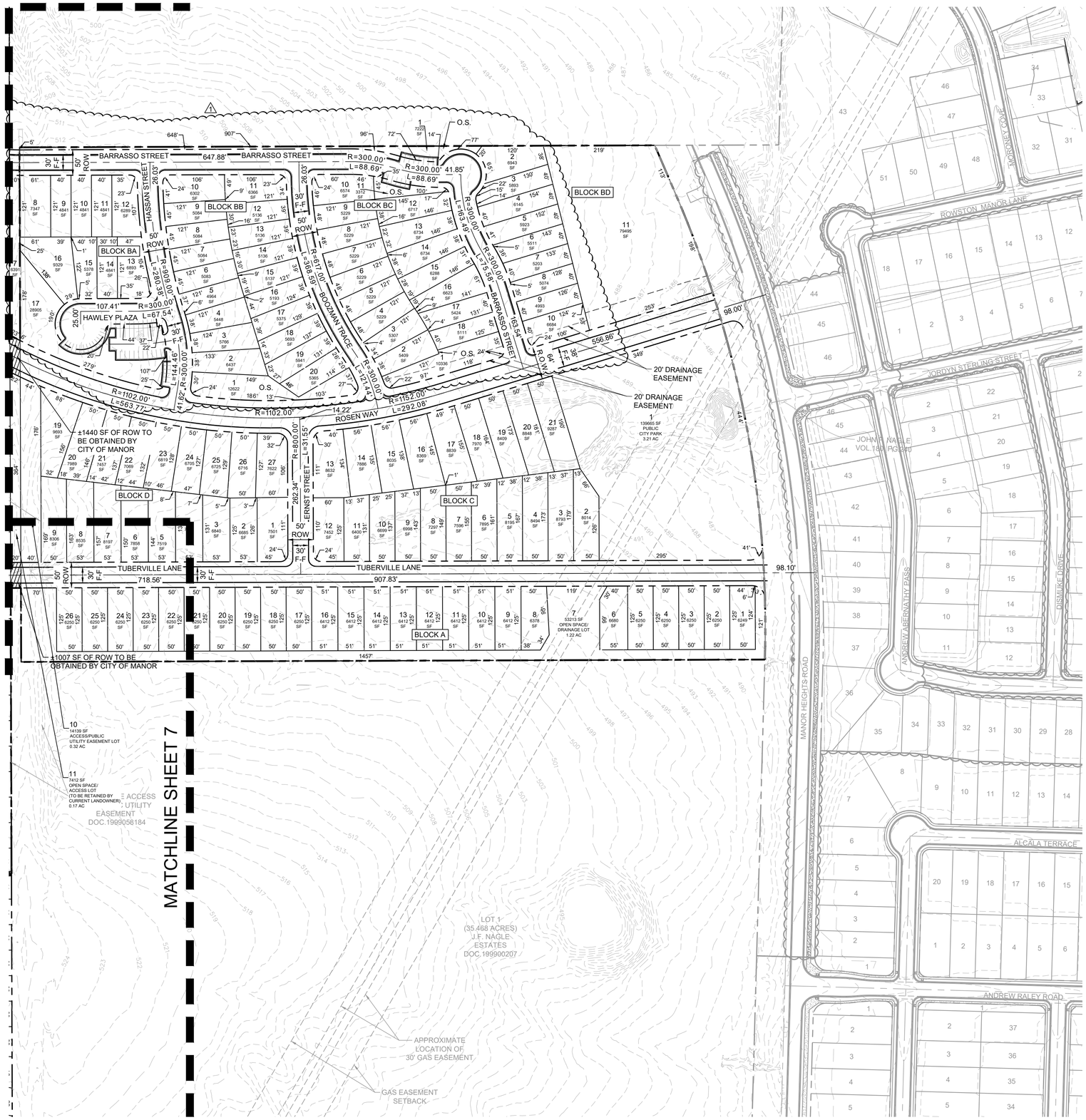

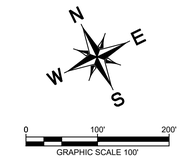

LEGEND

- EXISTING PROPERTY BOUNDARY
- PROPOSED PROPERTY BOUNDARY
- PHASE LINE
- PROPOSED SIDEWALK
- EXISTING 100-YEAR FLOODPLAIN
- PROPOSED 100-YEAR FLOODPLAIN
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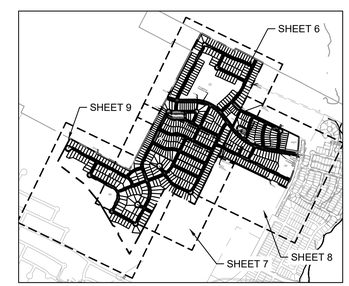
STATE OF TEXAS
SARAH E. TARKEY
145662
LICENSED
PROFESSIONAL ENGINEER
10/30/2024



KEY MAP
N.T.S.

NOTES:

1. SEE SHEET 4 FOR LINE AND CURVE TABLES.
2. ALL PAVEMENT DIMENSIONS ARE TO THE FACE OF CURB.

No.	REVISIONS	DATE	BY
1	ADDED MEDIUM DENSITY LOTS	10/30/2024	SFS

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STATE OF TEXAS
JASON B. REECE
127126
LICENSED
PROFESSIONAL ENGINEER
6/23/2021

KHA PROJECT 069255700	
DATE JUNE 2021	
SCALE: AS SHOWN	
DESIGNED BY: GBM	
DRAWN BY: RJ	
CHECKED BY: JR	

PRELIMINARY PLAN (SHEET 4 OF 5)

MANOR HEIGHTS
PHASES 4 & 5
CITY OF MANOR
TRAVIS COUNTY, TEXAS

SHEET NUMBER
8

Plotted By:Cuplin, Warren Date:October 30, 2024 01:34:04pm File Path:K:\aus_civil\069255700 sky village south\Cad\preliminary phases 4-5\plansheets\PRELIMINARY PLAN SHEET.dwg
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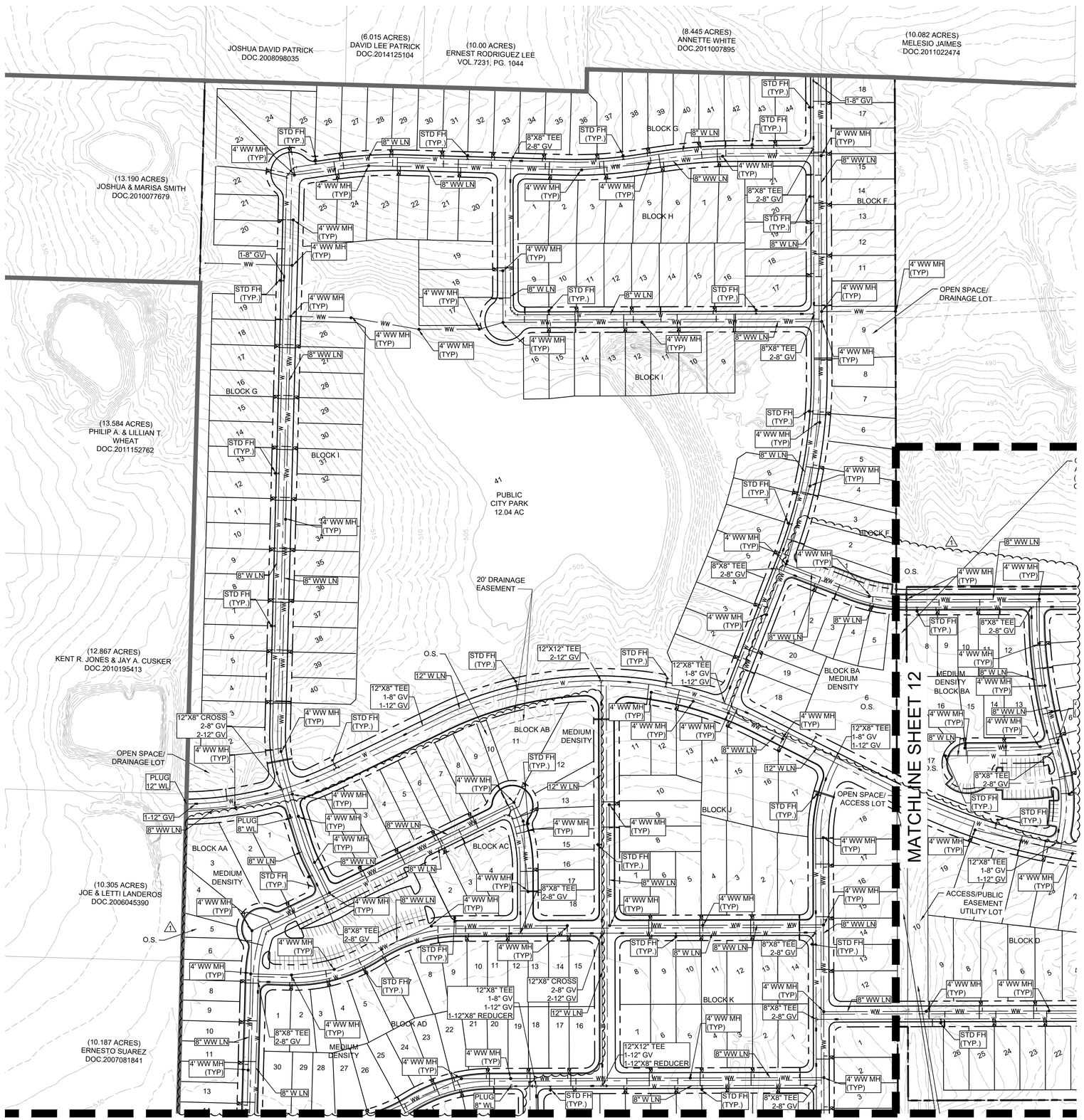

UTILITY LEGEND

- PROPERTY LINE
- PROPOSED WASTE WATER LINE
- PROPOSED WATER LINE
- PROPOSED WASTE WATER MANHOLE
- PROPOSED WASTE WATER CLEANOUT
- WASTE WATER FLOW DIRECTION
- PROPOSED FIRE HYDRANT
- PROPOSED TAPPING SLEEVE & VALVE
- IRRIGATION SLEEVE
- EXISTING OVERHEAD POWER LINE
- EXISTING WATER LINE
- EXISTING WASTE WATER LINE
- EXISTING STORM SEWER LINE
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING WASTE WATER MANHOLE

N E S W

0 100' 200'
GRAPHIC SCALE 100'

LUE TABLE

Phase	Type	LUE	Area (Acres)
Phases 4-5	SF	456	172.14
	Medium Density	170	
	NB	20.62	
	Irrigation	3	
Total Water		649.62	
Total Wastewater*		646.62	

*Irrigation LUE not included in wastewater demand

STATE OF TEXAS
SARAH F. STARKEY
145662
LICENSED
PROFESSIONAL ENGINEER
10/30/2024

MANOR HEIGHTS PHASES 4 AND 5

WASTEWATER CAPACITY CALCULATIONS

Design Criteria

Project Data

Development Size = 172.14 Acres
Units = Units
LUE/Unit=

Population:

	LUE's	People per LUE	Total Pop.
MD	456	3.5	1,596.0
SF-1	170.00	3.5	595.00
Total	691.19		2,191.00

Data from City of Austin Utility Criteria Manual

Wastewater Generation = 70 Gal/Person/Day
Inflow and Infiltration = 750 Gal/Acre/Day

Calculations

Total Avg Dry Weather Flow (F) - 153,370 Gal/day or 106.51 gpm

Peaking Factor (Mp =) 3.55 Unitless

$$Mp = \frac{18 + (0.0206 * F)^{0.5}}{4 + (0.0206 * F)^{0.5}}$$

Min. Flow Factor (Mm =) 0.22 Unitless

$$Mm = 0.2 * (0.0144 * F)^{0.198}$$

Minimum Dry Weather Flow -	33,384.66	Gal/day	or	23.18 gpm	=	0.05 cfs
Peak Dry Weather Flow -	545,103	Gal/day		378.54 gpm	=	0.84 cfs
I&I Contribution -	129,105	Gal/Day	or	89.66 gpm	=	0.20 cfs
Total Peak Wet Weather Flow -	674,208	Gal/ Day	or	468.20 gpm	=	1.04 cfs
8" PVC Max flow at 0.5%	652,635	Gal/ Day	or	453.22 gpm	=	1.01 cfs

MANOR HEIGHTS PHASES 4 AND 5

WATER CAPACITY CALCULATIONS

Population:

	LUE's	People per LUE	Total Pop.
SF-1	626.00	3.5	2,191.00
Total			2,191.00

Data from City of Austin Utility Criteria Manual

Peak hour demand 900 Gal/Person/Day = 0.00139 cfs

Calculations

Total Peak Hour Demand 1,971,900 Gal/Day or 1,369.38 gpm = 3.051 cfs

No.	REVISIONS	DATE	BY
1	ADDED MEDIUM DENSITY LOTS, UPDATED UTILITIES	10/30/2024	SFS

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STATE OF TEXAS
JASON B. REECE
127126
LICENSED
PROFESSIONAL ENGINEER
6/23/2021

KHA PROJECT 069255700
DATE JUNE 2021
SCALE: AS SHOWN
DESIGNED BY: GBM
DRAWN BY: RJ
CHECKED BY: JR

UTILITY PLAN (SHEET 1 OF 4)

MANOR HEIGHTS
PHASES 4 & 5
CITY OF MANOR
TRAVIS COUNTY, TEXAS

SHEET NUMBER
10

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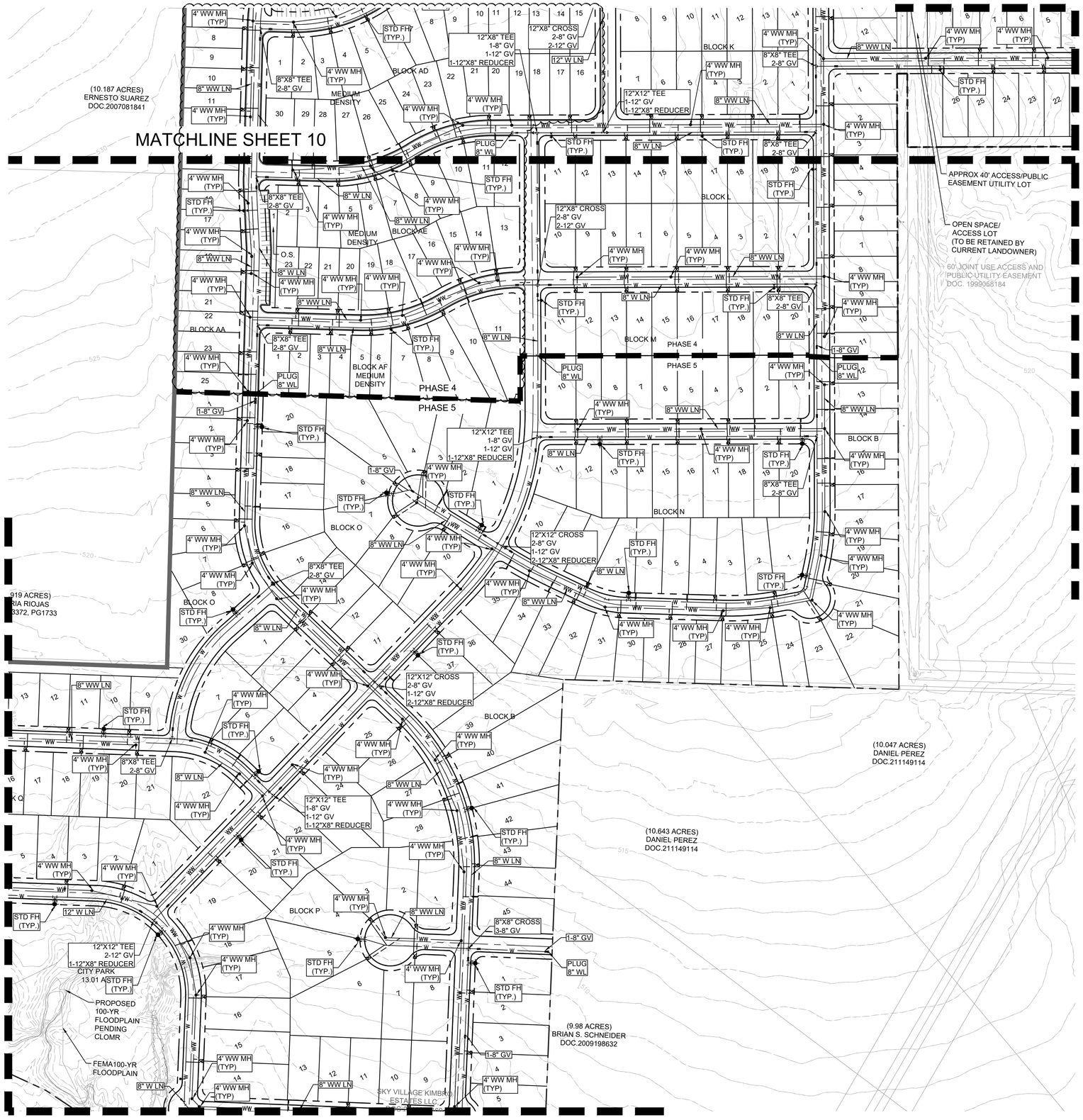

0 100' 200'
GRAPHIC SCALE 100'

UTILITY LEGEND

- PROPERTY LINE
- PROPOSED WASTE WATER LINE
- PROPOSED WATER LINE
- PROPOSED WASTE WATER MANHOLE
- PROPOSED WASTE WATER CLEANOUT
- WASTE WATER FLOW DIRECTION
- PROPOSED FIRE HYDRANT
- PROPOSED TAPPING SLEEVE & VALVE
- IRRIGATION SLEEVE
- EXISTING OVERHEAD POWER LINE
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- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
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STATE OF TEXAS
SARAH F. STARKEY
145662
LICENSED
PROFESSIONAL ENGINEER
10/30/2024

No.	REVISIONS	DATE	BY
1	ADDED MEDIUM DENSITY LOTS, UPDATED UTILITIES	10/30/2024	SFS

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UTILITY PLAN (SHEET 2 OF 4)

MANOR HEIGHTS
PHASES 4 & 5
CITY OF MANOR
TRAVIS COUNTY, TEXAS

SHEET NUMBER
11

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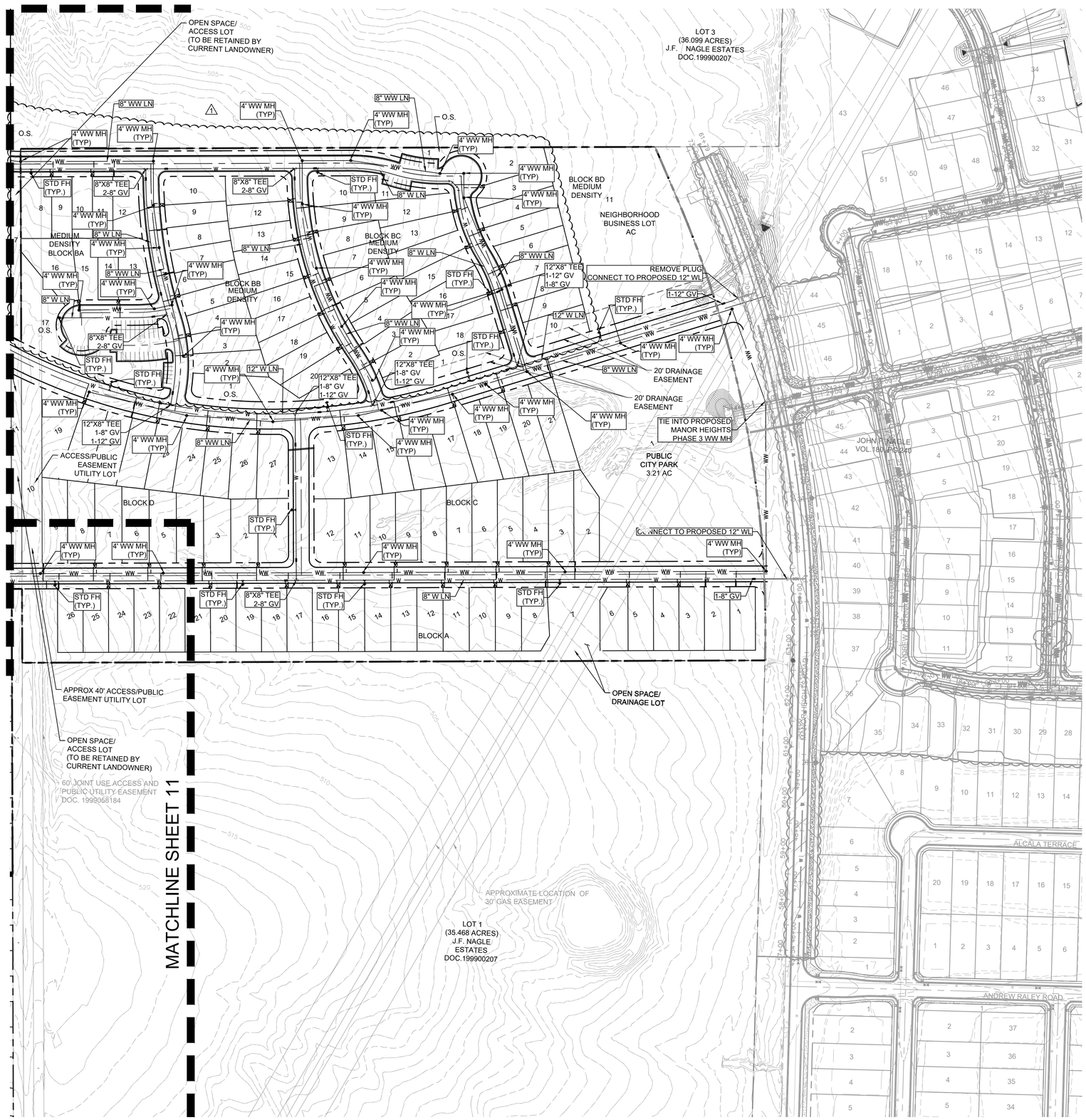

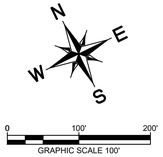

UTILITY LEGEND

- PROPERTY LINE
- PROPOSED WASTE WATER LINE
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- EXISTING FIRE HYDRANT
- EXISTING WATER METER
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STATE OF TEXAS
SARAH F. STARKEY
145662
LICENSED
PROFESSIONAL ENGINEER
10/30/2024

No.	REVISIONS	DATE	BY
1	ADDED MEDIUM DENSITY LOTS, UPDATED UTILITIES	10/30/2024	SFS

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6/23/2021

KHA PROJECT 069255700
DATE JUNE 2021
SCALE: AS SHOWN
DESIGNED BY: GBM
DRAWN BY: RJ
CHECKED BY: JR

UTILITY PLAN (SHEET 3 OF 4)

MANOR HEIGHTS
PHASES 4 & 5
CITY OF MANOR
TRAVIS COUNTY, TEXAS

SHEET NUMBER
12

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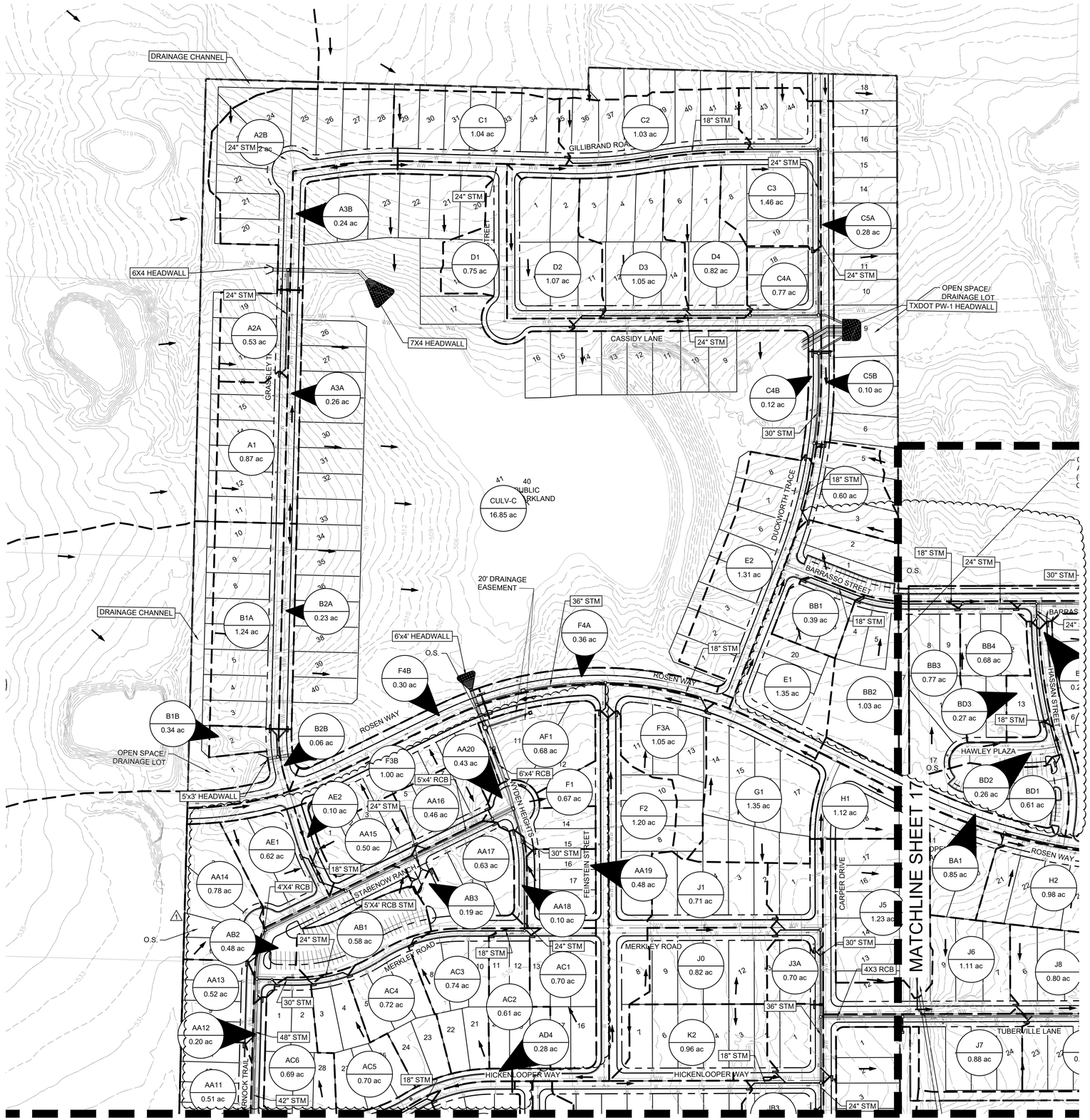

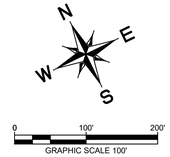

LEGEND

- X-1 / 9.9 ac — AREA DESIGNATOR / AREA IN ACRES
- PROPERTY LINE
- PROPOSED STORM DRAIN LINE
- EXISTING STORM DRAIN LINE
- PROPOSED DRAINAGE DIVIDE
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN HEADWALL
- PROPOSED FLOW DIRECTION
- 555 — PROPOSED CONTOUR
- 555 — EXISTING CONTOUR
- Tc FLOWPATH

NOTE: REFER TO DRAINAGE CALCULATIONS SHEET 19 FOR CALCULATIONS.

STATE OF TEXAS — SARAH E. STARKEY — 145662 — LICENSED PROFESSIONAL ENGINEER
10/30/2024

STATE OF TEXAS — JASON B. REECE — 127126 — LICENSED PROFESSIONAL ENGINEER
6/23/2021

No.	REVISIONS	DATE	BY
1	ADDED MEDIUM DENSITY LOTS, UPDATED MAP AND UTILITIES	10/30/2024	SFS

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CHECKED BY: JR

INLET DRAINAGE AREA MAP (SHEET 1 OF 4)

MANOR HEIGHTS
PHASES 4 & 5
CITY OF MANOR
TRAVIS COUNTY, TEXAS

SHEET NUMBER
15

Posted By:Guplin, Warren Date:October 30, 2024 01:40:49pm File Path:K:\aus_civil\069255700 sky village south\Cad\preliminary phases 4_5\plansheets\INLET DRAINAGE AREA MAP.dwg
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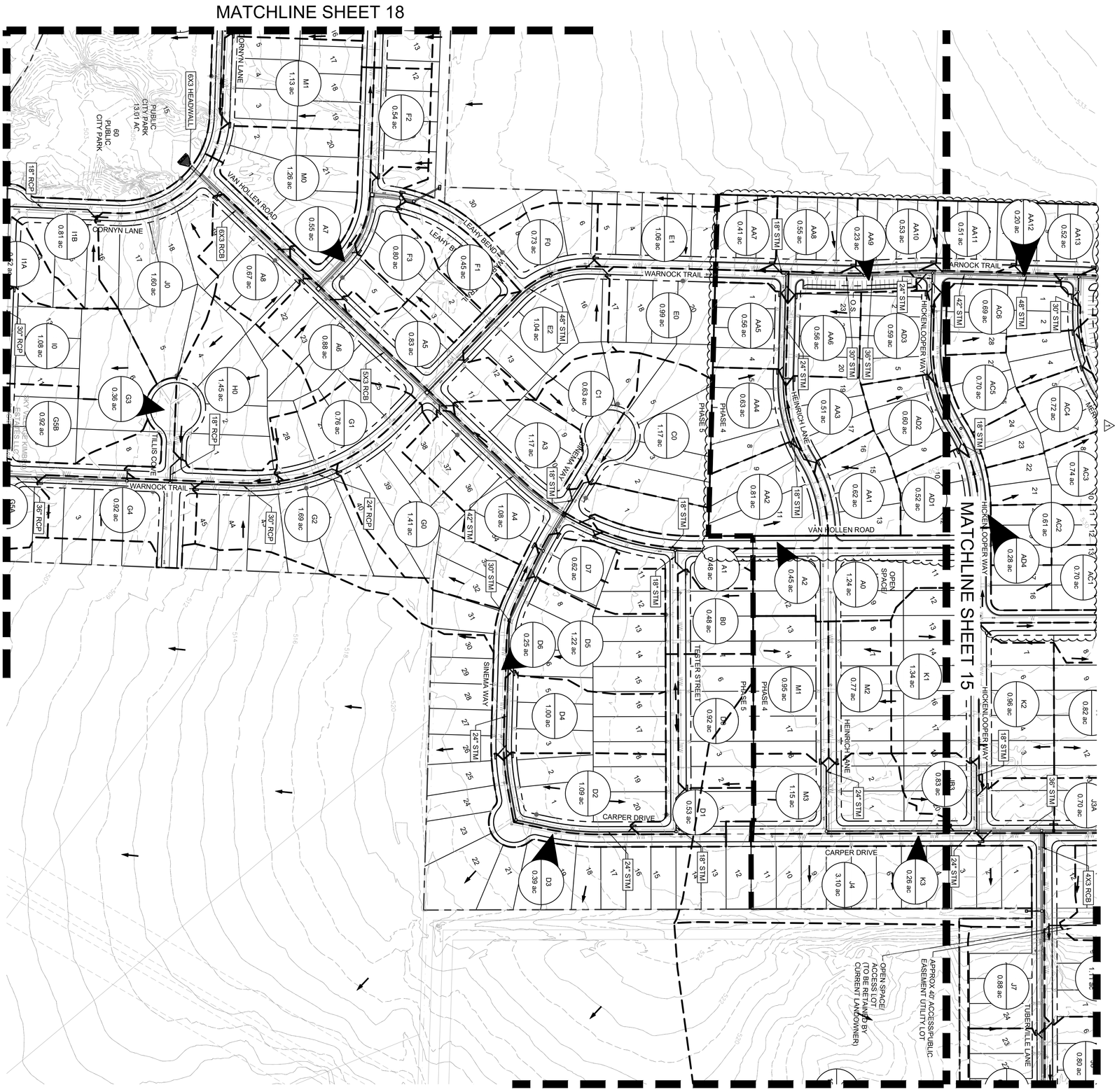

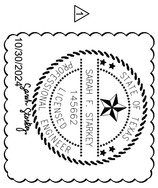

NOTE: REFER TO DRAINAGE CALCULATIONS SHEET 19 FOR CALCULATIONS.

LEGEND

- X-1 / 9.9 ac — AREA DESIGNATOR / AREA IN ACRES
- PROPERTY LINE
- PROPOSED STORM DRAIN LINE
- EXISTING STORM DRAIN LINE
- PROPOSED DRAINAGE DIVIDE
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN HEADWALL
- PROPOSED FLOW DIRECTION
- 550 — PROPOSED CONTOUR
- 550 — EXISTING CONTOUR
- Tc FLOWPATH

0 100' 200' GRAPHIC SCALE 100'

N W E S

SHEET NUMBER 16	MANOR HEIGHTS PHASES 4 & 5 CITY OF MANOR TRAVIS COUNTY, TEXAS	INLET DRAINAGE AREA MAP (SHEET 2 OF 4)	KHA PROJECT 069255700 DATE JUNE 2021 SCALE: AS SHOWN DESIGNED BY: GBM DRAWN BY: RJ CHECKED BY: JR

Kimley»Horn

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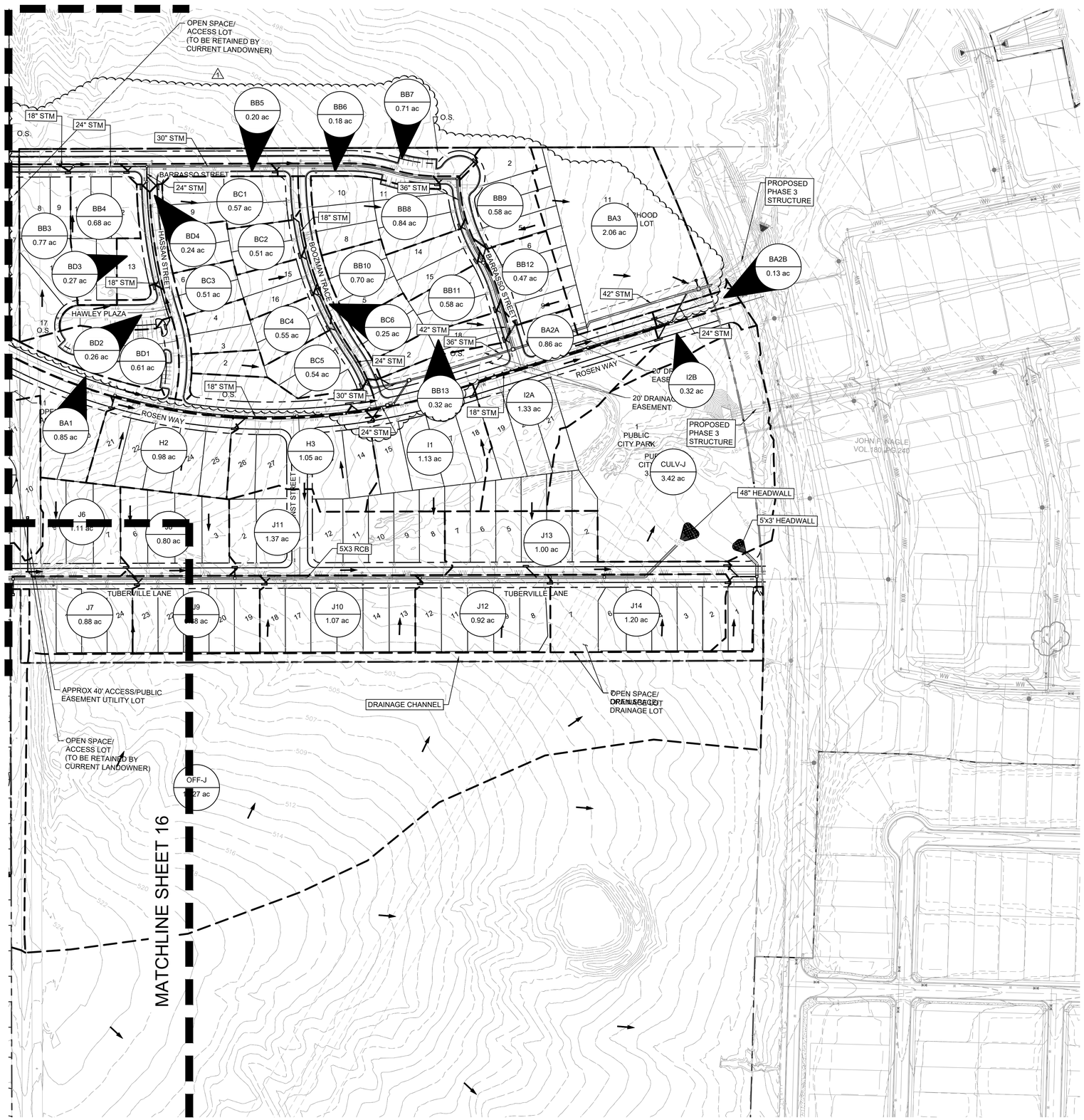
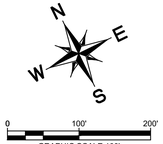
TEXAS REGISTERED ENGINEERING FIRM F-928

No.	REVISIONS	DATE	BY
1	ADDED MEDIUM DENSITY LOTS, UPDATED MAP AND UTILITIES.	10/30/2024	SFS





LEGEND

X-1 / 9.9 ac	AREA DESIGNATOR / AREA IN ACRES
	PROPERTY LINE
	PROPOSED STORM DRAIN LINE
	EXISTING STORM DRAIN LINE
	PROPOSED DRAINAGE DIVIDE
	PROPOSED STORM DRAIN INLET
	PROPOSED STORM DRAIN MANHOLE
	PROPOSED STORM DRAIN HEADWALL
	PROPOSED FLOW DIRECTION
555	PROPOSED CONTOUR
555	EXISTING CONTOUR
Tc	Tc FLOWPATH

NOTE: REFER TO DRAINAGE CALCULATIONS SHEET 19 FOR CALCULATIONS.

STATE OF TEXAS
SARAH E. STARKEY
145662
LICENSED
PROFESSIONAL ENGINEER
10/30/2024

STATE OF TEXAS
JASON B. REECE
127126
LICENSED
PROFESSIONAL ENGINEER
6/23/2021

No.	REVISIONS	DATE	BY
1	ADDED MEDIUM DENSITY LOTS, UPDATED MAP AND UTILITIES	10/30/2024	SFS

Kimley»Horn
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KHA PROJECT 069255700
DATE JUNE 2021
SCALE: AS SHOWN
DESIGNED BY: GBM
DRAWN BY: XRM
CHECKED BY: JR

INLET DRAINAGE AREA MAP (SHEET 3 OF 4)

MANOR HEIGHTS
PHASES 4 & 5
CITY OF MANOR
TRAVIS COUNTY, TEXAS

SHEET NUMBER
17

Plotted By:Cuplin, Warren Date:October 30, 2024 01:41:02pm File Path:K:\aus_civil\069255700 sky village south\Cad\preliminary phases 4_5\plansheets\INLET DRAINAGE AREA MAP.dwg
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Manor Heights Phase 4
Proposed "C" Value Calculations

DRAINAGE AREA	AREA (sf)	AREA (Ac.)	Lots	SF of Lots	LF of Local	SF of Local	LF of Collector	SF of Collector	IMPERVIOUS COVER (sf)	IMPERVIOUS COVER %	Comp. C_{10}	Comp. C_{25}	Comp. C_{100}
A1	37743.56	0.866	5.50	19,470	298	5,811		0	25,281	67%	0.66	0.72	0.80
A2A	23201.7	0.533	3.50	12,390	174	3,393		0	15,783	68%	0.66	0.72	0.81
A2B	74858.79	1.719	9.00	31,860	515	10,043		0	41,903	56%	0.61	0.66	0.75
A3A	11447.78	0.263	0.00	0	458	8,931		0	8,931	78%	0.71	0.77	0.86
A3B	10433.22	0.240	0.00	0	439	8,561		0	8,561	82%	0.73	0.79	0.88
CULV-A	1947771.85	44.715	0.00	0		0		0	99,317	5%	0.37	0.41	0.49
B1A	54155.93	1.243	8.00	28,320	403	7,859		0	36,179	67%	0.66	0.72	0.80
B1B	14915.56	0.342	1.00	3,540	278	5,421		0	8,961	60%	0.63	0.68	0.77
B2A	10077.8	0.231	0.00	0	403	7,859		0	7,859	78%	0.71	0.77	0.86
B2B	2716.98	0.062	0.00	0	95	1,853		0	1,853	68%	0.66	0.72	0.81
CULV-B	509556.25	11.698	0.00	0		0		0	59,242	12%	0.40	0.45	0.52
C1	45424.62	1.043	6.50	23,010	336	6,552		0	29,562	65%	0.65	0.71	0.79
C2	45067.65	1.035	7.00	24,780	345	6,728		0	31,508	70%	0.67	0.73	0.82
C3	63357.36	1.454	6.50	23,010	1,017	19,835		0	42,845	68%	0.66	0.72	0.80
C4A	33550.44	0.770	2.00	7,080	806	15,717		0	22,797	68%	0.66	0.72	0.81
C4B	5260.93	0.121	0.00	0	204	3,978		0	3,978	76%	0.70	0.76	0.85
C5A	12266.45	0.282	0.00	0	491	9,575		0	9,575	78%	0.71	0.77	0.86
C5B	4569.82	0.105	0.00	0	178	3,471		0	3,471	76%	0.70	0.76	0.85
CULV-C	747431.14	17.159	32.00	113,280		0		0	113,280	15%	0.42	0.46	0.54
D1	32543.49	0.747	2.00	7,080	835	16,283		0	23,363	72%	0.68	0.74	0.83
D2	46429.41	1.066	5.00	17,700	484	9,438		0	27,138	58%	0.62	0.68	0.76
D3	46752.83	1.073	6.00	21,240	166	3,237		0	24,477	52%	0.59	0.65	0.73
D4	34703.88	0.797	4.00	14,160	126	2,457		0	16,617	48%	0.57	0.62	0.70
E1	54709	1.256	5.00	17,700	460	8,970	157	5,024	31,694	58%	0.62	0.67	0.76
E2	56931.2	1.307	8.00	32,400	508	9,906		0	42,306	74%	0.69	0.75	0.84
E3	41671	0.957	4.00	16,200	153	2,984		0	19,184	46%	0.56	0.62	0.69
F1	52280.23	1.200	5.00	17,700	839	16,364		0	34,064	65%	0.65	0.71	0.79
F2	20217.01	0.464	0.00	0	824	16,068		0	16,068	79%	0.72	0.78	0.87
F3A	45768.96	1.051	3.00	10,620	0	0	465	14,880	25,500	56%	0.61	0.66	0.74
F3B	19830.5	0.455	0.00	0	0	0	610	19,520	19,520	98%	0.80	0.87	0.96
F4A	15861.08	0.364	0.00	0	0	0	488	15,616	15,616	98%	0.80	0.87	0.96
F4B	12889.81	0.296	0.00	0	0	0	398	12,736	12,736	99%	0.80	0.87	0.96
CULV-F	502185.64	11.529	0.00	0	0	0	0	0	287,496	57%	0.61	0.67	0.75
G1	58944.22	1.353	4.00	14,160	0	0	226	7,232	21,392	36%	0.52	0.57	0.65
H1	48878.15	1.122	3.00	10,620	136	2,652	391	12,512	25,784	53%	0.59	0.65	0.73
H2	42633.33	0.979	5.00	17,700	0	0	243	7,776	25,476	60%	0.62	0.68	0.76
H3	45523.73	1.045	4.00	14,160	141	2,750	262	8,384	25,294	56%	0.61	0.66	0.74
H4	37449	0.860	0.00	0	0	0	923	29,536	29,536	79%	0.71	0.78	0.86
I1	24653.57	0.566	4.00	14,160	0	0	213	6,816	20,976	85%	0.74	0.81	0.89
I2A	57939.78	1.330	3.00	10,620	0	0	374	11,968	22,588	39%	0.53	0.58	0.66
I2B	14059.74	0.323	0.00	0	0	0	193	6,176	6,176	44%	0.55	0.61	0.68
I3A	41101	0.944	0.00	0	0	0	550	17,600	17,600	43%	0.55	0.60	0.68
I3B	6343.42	0.146	0.00	0	0	0	189	6,048	6,048	95%	0.79	0.86	0.95
I4	80795	1.855	0.00	0	0	0		0	0	0%	0.35	0.39	0.46
J0	35743.95	0.821	4.50	15,930	244	4,758		0	20,688	58%	0.62	0.67	0.76
J1	30870.86	0.709	4.50	15,930	244	4,758		0	20,688	67%	0.66	0.72	0.80
J2	17241.5	0.396	2.00	7,080	138	2,691		0	9,771	57%	0.61	0.67	0.75
J3A	13055.66	0.300	1.00	3,540	115	8,050		0	11,590	89%	0.76	0.82	0.91
J3B	36121	0.829	4.00	14,160	242	10,332		0	24,492	68%	0.66	0.72	0.81
J4	134831.41	3.095	11.00	38,940	0	0		0	38,940	29%	0.48	0.53	0.61
J5	53672.24	1.232	5.50	19,470	0	0		0	19,470	36%	0.52	0.57	0.65
J6	52069.82	1.195	3.50	12,390	690	13,455		0	25,845	50%	0.58	0.63	0.71
J7	38334.41	0.880	5.00	17,700	525	10,238		0	27,938	73%	0.69	0.75	0.83
J8	34739.03	0.797	4.00	14,160	214	4,173		0	18,333	53%	0.59	0.65	0.73
J9	38154.35	0.876	5.00	17,700	250	4,875		0	22,575	59%	0.62	0.68	0.76
J10	46522.15	1.068	6.00	21,240	306	5,967		0	27,207	58%	0.62	0.68	0.76
J11	59858.66	1.374	7.00	24,780	594	11,583		0	36,363	61%	0.63	0.69	0.77
J12	40161.14	0.922	5.00	17,700	259	5,051		0	22,751	57%	0.61	0.67	0.75
J13	43696.04	1.003	6.00	21,240	552	10,764		0	32,004	73%	0.69	0.75	0.83
J14	51204.72	1.175	5.00	17,700	349	6,806		0	24,506	48%	0.57	0.62	0.70
CULV-J	149094.9	3.423	0.00	0	0	0		0	41,600	28%	0.48	0.53	0.60
OFF-J	531676	12.206	0.00	0	0	0		0	167,706	32%	0.50	0.54	0.62
K1	58426.46	1.341	6.50	23,010	392	7,644		0	30,654	52%	0.59	0.65	0.73
K2	42889.69	0.985	5.50	19,470	315	6,143		0	25,613	60%	0.62	0.68	0.76
K3	11491.45	0.264	0.00	0	450	8,775		0	8,775	76%	0.70	0.76	0.85
M1	41540.6	0.954	5.50	19,470	285	5,558		0	25,028	60%	0.63	0.69	0.77
M2	33672.82	0.773	5.50	19,470	286	5,577		0	25,047	74%	0.69	0.75	0.84
M3	50229.87	1.153	5.00	17,700	385	7,508		0	25,208	50%	0.58	0.64	0.72
AA1	56210.42	1.290	5.00	13,800	240	4,688	699	19,216	37,704	67%	0.66	0.72	0.80
AA2	26844.86	0.616	3.00	8,280	166	3,233	132	3,102	14,615	54%	0.60	0.66	0.74
AA3	6439.06	0.148	0.00	0	0	0		0	3,807	59%	0.62	0.68	0.76
AA4A	37913.51	0.870	1.00	2,760	113	2,656	561	13,184	18,599	49%	0.58	0.63	0.71
AA4B	5498.39	0.126	0.00	0	0	0	173	4,066	4,066	74%	0.69	0.75	0.84
AA5	82836.81	1.902	0.00	0	0	0		0	0	0%	0.35	0.39	0.46
AB1	53683.95	1.232	4.00	11,040	241	4,693		0	19,711	37%	0.52	0.57	0.65
AB2	9669.46	0.222	0.00	0	0	0		0	5,435	56%	0.61	0.67	0.75
AB3	8382.07	0.192	0.00	0	293	5,715		0	5,715	68%	0.66	0.72	0.81
AB4	18697.80	0.429	0.00	0	551	10,751		0	10,751	57%	0.61	0.67	0.75
AB5	7753.60	0.178	0.00	0	0	0		0	4,606	59%	0.62	0.68	0.76
AB6	8532.13	0.196	0.00	0	283	5,515		0	5,515	65%	0.65	0.71	0.79
AB7	31421.74	0.721	0.00	0	406	7,927		0	9,918	32%	0.50	0.54	0.62
AB8	19839.70	0.455	3.00	8,280	267	5,201		0	13,481	68%	0.66	0.72	0.81
AB9	25153.41	0.577	3.00	8,280	143	2,789		0	11,069	44%	0.55	0.61	0.68
AB10	25047.65	0.575	3.00	8,280	158	3,087		0	11,367	45%	0.56	0.61	0.69
AB11	32080.99	0.736	5.00	13,800	184	3,583		0	17,383	54%	0.60	0.66	0.74
AC1	16528.52	0.379	3.00	8,280	113	2,210		0	10,490	63%	0.64	0.70	0.78
AC2	27632.57	0.634	3.00	8,280	279	5,443	65	1,529	16,254	59%	0.62	0.68	0.76
AC3	20117.58	0.462	3.00	8,280	137	2,665		0	10,945	54%	0.60	0.66	0.74
AC4	18693.41	0.429	3.00	8,280	137	2,665		0	11,948	64%	0.64	0.70	0.79
AD1	24975.07	0.573	4.00	11,040	0	0	39	1,076	14,342	57%	0.61	0.67	0.75
AD2	34842.14	0.800	5.00	13,800	0	0		0	16,810	48%	0.57	0.63	0.71
AD3	16433.44	0.377	2.00	5,520	138	2,683		0	8,203	50%	0.58	0.63	0.71
AD4	19901.73	0.457	3.00	8,280	138	2,683		0	10,963	55%	0.60	0.66	0.74
AD5	18756.74	0.431	3.00	8,280	124	2,415		0	10,695	57%	0.61	0.67	0.75
AD6	19176.20	0.440	3.00	8,280	124	2,415		0	10,695	56%	0.61	0.66	0.74
BA1	22218.34	0.510	4.00	11,040	0	0		0	13,092	59%	0.62	0.68	0.76
BA2	20877.5	0.479	4.00	11,040	0	0		0	13,020	62%	0.64	0.70	0.78
BA3	26291.54	0.604	5.00	13,800	0	0		0	16,332	62%	0.64	0.69	0.78
BB1	18077.93	0.415	0.00	0	216	4,212		0	12,276	68%	0.66	0.72	0.81
BB2	32193.34	0.739	0.00	0	0	0		0	8,232	26%	0.47	0.52	0.59
BC1	33934.76	0.779	3.00	8,280	0	0		0	12,059	36%	0.51	0.56	0.64
BC2	27150.56	0.623	4.00	11,040	148	2,886		0	13,926	51%	0.59	0.64	0.72
BC3	22587.85	0.519	3.00	8,280	266	5,187		0	13,467	60%	0.62	0.68	0.76
BC4	11203.92	0.257	0.00	0	0	0		0	9,019	80%	0.72	0.78	0.87
BC5	37029.78	0.850	5.00	13,800	301	5,870		0	22,850	62%	0.63	0.69	0.77
BC6	32379.06	0.743	6.00	16,560	238	4,641		0	21,201	65%	0.65	0.71	0.79
BC7	33806.99	0.776	6.00	16,560	249	4,856		0	21,416	63%	0.64	0.70	0.78
BC8	29492.05	0.677	5.00	13,800	238	4,641		0	18,441	63%	0.64	0.70	0.78
BC9	35949.92	0.825	6.00	16,560	184	3,588		0	20,148	56%	0.61	0.66	0.75
BD1	36709.91	0.843	4.00	11,040	0	0		0	16,500	45%	0.56	0.61	0.69
BD2	33743.38	0.775	4.00	14,240	242	4,719		0	18,959	56%	0.61	0.67	0.75
BD3	40057.18	0.920	6.00	16,560	236	4,602		0	21,162	53%	0.59	0.65	0.73
BD4	42239.93	0.970	5.00	17,800	286	5,577		0	23,377	55%	0.60	0.66	0.74
BD5	16773.91	0.385	2.00	5,520	160	3,120		0	9,888	59%	0.62	0.68	0.76
BD6	9835.88	0.226	0.00	0	0	0		0	5,916	60%	0.63	0.68	0.77
BD7	16085.84	0.369	3.00	8,280	0	0		0	9,720	60%	0.63	0.69	0.77
BD8	14845.95	0.341	2.00	5,520	0	0		0	8,340	56%	0.61	0.67	0.75
BE1	35146.18	0.807	3.00	8,280	0	0		0	12,287	35%	0.51	0.56	0.64
BE2	27228.53	0.625	4.00	11,040	189	3,686		0	14,726	54%	0.60	0.65	0.74
BE3	41791.54	0.959	5.00	13,800	202	3,939		0	17,739	42%	0.55	0.60	0.68
BE4	21627.08	0.496	4.00	11,040	164	3,198		0	14,238	66%	0.65	0.71	0.80
BE5	40913.3	0.939	5.00	13,800	230	4,485		0	18,285	45%	0.56	0.61	0.69
BE6	33580.54	0.771	5.00	13,800	201	3,920		0	17,720	53%	0.59	0.65	0.73

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Manor Heights Phase 4
Proposed Inlet Runoff (Q) Calculations

D.A. Number	Drainage Area (Ac)	TOTAL I.C. (%)	Comp. C_{25}	Comp. C_{100}	TOTAL T_c (Min.)	i_{25} (in/hr)	i_{100} (in/hr)	Q_{25} (cfs)	Q_{100} (cfs)
A1	0.87	67%	0.72	0.80	9.0	11.57	12.74	7.20	8.85
A2A	0.53	68%	0.72	0.81	9.3	9.65	12.58	3.72	5.41
A2B	1.72	56%	0.66	0.75	9.5	9.58	12.50	10.94	16.01
A3A	0.26	78%	0.77	0.86	6.7	10.80	14.10	2.19	3.18
A3B	0.24	82%	0.79	0.88	5.7	11.34	14.82	2.15	3.12
CULV-A	44.71	5%	0.41	0.49	27.4	5.86	7.70	108.70	167.44
B1A	1.24	67%	0.72	0.80	10.4	9.27	12.08	8.26	12.03
B1B	0.34	60%	0.68	0.77	8.9	9.81	12.80	2.30	3.36
B2A	0.23	78%	0.77	0.86	5.3	11.61	15.18	2.07	3.01
B2B	0.06	68%	0.72	0.81	5.0	11.79	15.42	0.53	0.78
CULV-B	11.70	12%	0.45	0.52	22.8	6.46	8.47	33.76	51.44
C1	1.04	65%	0.71	0.79	11.4	8.92	11.64	6.60	9.61
C2	1.03	70%	0.73	0.82	11.0	9.05	11.81	6.86	9.97
C3	1.45	68%	0.72	0.80	11.5	8.89	11.59	9.32	13.57
C4A	0.77	68%	0.72	0.81	11.4	8.90	11.61	4.96	7.21
C4B	0.12	76%	0.76	0.85	7.0	10.68	13.95	0.98	1.42
C5A	0.28	78%	0.77	0.86	6.8	10.79	14.08	2.35	3.40
C5B	0.10	76%	0.76	0.85	6.3	11.03	14.40	0.88	1.28
CULV-C	17.16	15%	0.46	0.54	28.9	5.69	7.49	45.35	69.09
D1	0.75	72%	0.74	0.83	9.4	9.61	12.54	5.33	7.74
D2	1.07	58%	0.68	0.76	10.8	9.11	11.89	6.57	9.61
D3	1.07	52%	0.65	0.73	10.9	9.10	11.87	6.31	9.26
D4	0.80	48%	0.62	0.70	10.7	9.16	11.95	4.56	6.70
E1	1.26	58%	0.67	0.76	13.1	8.42	10.99	7.13	10.43
E2	1.31	74%	0.75	0.84	13.6	8.27	10.79	8.15	11.83
E3	0.96	46%	0.62	0.69	9.6	9.55	12.46	5.62	8.28
F1	1.20	65%	0.71	0.79	10.3	9.30	12.13	7.92	11.54
F2	0.46	79%	0.78	0.87	10.0	9.39	12.24	3.40	4.92
F3A	1.05	56%	0.66	0.74	10.7	9.16	11.95	6.38	9.34
F3B	0.46	98%	0.87	0.96	6.8	10.77	14.06	4.28	6.16
F4A	0.36	98%	0.87	0.96	7.4	10.49	13.69	3.33	4.80
F4B	0.30	99%	0.87	0.96	7.2	10.59	13.83	2.74	3.94
CULV-F	11.53	57%	0.67	0.75	13.8	8.23	10.74	63.62	93.13
G1	1.35	36%	0.57	0.65	13.5	8.30	10.83	6.38	9.45
H1	1.12	53%	0.65	0.73	14.6	8.03	10.48	5.84	8.57
H2	0.98	60%	0.68	0.76	12.2	8.67	11.31	5.79	8.46
H3	1.05	56%	0.66	0.74	14.9	7.95	10.38	5.50	8.07
H4	0.86	79%	0.78	0.86	6.6	10.88	14.20	7.26	10.53
I1	0.57	85%	0.81	0.89	12.4	8.61	11.24	3.93	5.68
I2A	1.33	39%	0.58	0.66	7.7	10.35	13.51	8.00	11.84
I2B	0.32	44%	0.61	0.68	8.5	9.98	13.02	1.95	2.88
I3A	0.94	43%	0.60	0.68	11.8	8.79	11.47	4.98	7.34
I3B	0.15	95%	0.86	0.95	8.5	10.00	13.04	1.25	1.80
I4	1.85	0%	0.39	0.46	12.4	8.60	11.22	6.22	9.57
J0	0.82	58%	0.67	0.76	11.5	8.89	11.59	4.91	7.18
J1	0.71	67%	0.72	0.80	8.8	9.87	12.88	5.03	7.32
J2	0.40	57%	0.67	0.75	9.1	9.73	12.69	2.57	3.76
J3A	0.30	89%	0.82	0.91	9.9	9.42	12.29	2.33	3.36
J3B	0.83	68%	0.72	0.81	9.7	9.52	12.41	5.70	8.29
J4	3.10	29%	0.53	0.61	15.8	7.73	10.09	12.71	18.97
J5	1.23	36%	0.57	0.65	20.1	6.89	9.02	4.82	7.17
J6	1.20	50%	0.63	0.71	11.1	9.03	11.77	6.83	10.04
J7	0.88	73%	0.75	0.83	5.8	11.31	14.78	7.44	10.82
J8	0.80	53%	0.65	0.73	8.4	10.03	13.08	5.19	7.61
J9	0.88	59%	0.68	0.76	8.2	10.09	13.17	6.01	8.78
J10	1.07	58%	0.68	0.76	11.8	8.80	11.47	6.36	9.29
J11	1.37	61%	0.69	0.77	8.9	9.82	12.81	9.28	13.55
J12	0.92	57%	0.67	0.75	9.1	9.75	12.72	6.00	8.78
J13	1.00	73%	0.75	0.83	11.8	8.78	11.45	6.60	9.58
J14	1.18	48%	0.62	0.70	12.1	8.71	11.36	6.39	9.40
CULV-J	3.42	28%	0.53	0.60	12.9	8.45	11.03	15.24	22.74
OFF-J	12.21	32%	0.54	0.62	23.3	6.39	8.39	42.49	63.55
K1	1.34	52%	0.65	0.73	12.1	8.69	11.33	7.54	11.06
K2	0.98	60%	0.68	0.76	8.3	10.08	13.16	6.78	9.90
K3	0.26	76%	0.76	0.85	8.8	9.86	12.86	1.99	2.88
M1	0.95	60%	0.69	0.77	14.9	7.95	10.39	5.20	7.60
M2	0.77	74%	0.75	0.84	11.9	8.77	11.44	5.11	7.42
M3	1.15	50%	0.64	0.72	6.1	11.14	14.55	8.17	12.01
AA1	1.29	67%	0.72	0.80	9.2	9.70	12.65	9.00	13.10
AA2	0.62	54%	0.66	0.74	9.5	9.59	12.51	3.88	5.69
AA3	0.15	59%	0.68	0.76	5.0	11.79	15.42	1.18	1.74
AA4A	0.87	49%	0.63	0.71	10.1	9.34	12.18	5.13	7.53
AA4B	0.13	74%	0.75	0.84	5.0	11.79	15.42	1.12	1.63
AA5	1.90	0%	0.39	0.46	11.2	8.97	11.70	6.65	10.24
AB1	1.23	37%	0.57	0.65	9.3	9.65	12.58	6.78	10.04
AB2	0.22	56%	0.67	0.75	5.0	11.79	15.42	1.74	2.56
AB3	0.19	68%	0.72	0.81	5.0	11.79	15.42	1.64	2.40
AB4	0.43	57%	0.67	0.75	5.0	11.79	15.42	3.40	4.99
AB5	0.18	59%	0.68	0.76	5.0	11.79	15.42	1.43	2.09
AB6	0.20	65%	0.71	0.79	5.0	11.79	15.42	1.63	2.39
AB7	0.72	32%	0.54	0.62	5.0	11.79	15.42	4.63	6.91
AB8	0.46	68%	0.72	0.81	8.7	9.91	12.93	3.26	4.75
AB9	0.58	44%	0.61	0.68	9.0	9.79	12.77	3.42	5.05
AB10	0.58	45%	0.61	0.69	9.4	9.64	12.57	3.39	5.00
AB11	0.74	54%	0.66	0.74	9.0	9.76	12.74	4.71	6.91
AC1	0.38	63%	0.70	0.78	8.8	9.86	12.86	2.62	3.82
AC2	0.63	59%	0.68	0.76	8.7	9.91	12.93	4.26	6.23
AC3	0.46	54%	0.66	0.74	8.9	9.83	12.83	2.98	4.37
AC4	0.43	64%	0.70	0.79	8.9	9.84	12.83	2.97	4.33
AD1	0.57	57%	0.67	0.75	8.8	9.85	12.85	3.79	5.55
AD2	0.80	48%	0.63	0.71	9.1	9.73	12.69	4.88	7.17
AD3	0.38	50%	0.63	0.71	8.6	9.96	13.00	2.38	3.50
AD4	0.46	55%	0.66	0.74	8.7	9.91	12.92	2.99	4.37
AD5	0.43	57%	0.67	0.75	8.8	9.85	12.85	2.84	4.15
AD6	0.44	56%	0.66	0.74	8.8	9.84	12.83	2.87	4.21
BA1	0.51	59%	0.68	0.76	8.8	9.84	12.83	3.41	4.98
BA2	0.48	62%	0.70	0.78	8.9	9.83	12.82	3.28	4.78
BA3	0.60	62%	0.69	0.78	9.0	9.76	12.74	4.09	5.97
BB1	0.42	68%	0.72	0.81	5.0	11.79	15.42	3.54	5.16
BB2	0.74	26%	0.52	0.59	5.0	11.79	15.42	4.49	6.73
BC1	0.78	36%	0.56	0.64	9.4	9.63	12.55	4.23	6.27
BC2	0.62	51%	0.64	0.72	8.9	9.81	12.80	3.92	5.76
BC3	0.52	60%	0.68	0.76	8.8	9.87	12.87	3.49	5.10
BC4	0.26	80%	0.78	0.87	5.0	11.79	15.42	2.38	3.45
BC5	0.85	62%	0.69	0.77	9.2	9.70	12.65	5.71	8.33
BC6	0.74	65%	0.71	0.79	9.2	9.71	12.67	5.13	7.48
BC7	0.78	63%	0.70	0.78	9.2	9.72	12.67	5.28	7.70
BC8	0.68	63%	0.70	0.78	9.2	9.72	12.67	4.58	6.68
BC9	0.83	56%	0.66	0.75	9.1	9.76	12.73	5.35	7.83
BD1	0.84	45%	0.61	0.69	9.1	9.74	12.70	5.01	7.38
BD2	0.77	56%	0.67	0.75	9.2	9.70	12.65	5.00	7.32
BD3	0.92	53%	0.65	0.73	9.3	9.67	12.61	5.77	8.46
BD4	0.97	55%	0.66	0.74	9.1	9.72	12.68	6.23	9.13
BD5	0.39	59%	0.68	0.76	8.6	9.93	12.95	2.59	3.79
BD6	0.23	60%	0.68	0.77	5.0	11.79	15.42	1.82	2.67
BD7	0.37	60%	0.69	0.77	8.7	9.89	12.90	2.50	3.66
BD8	0.34	56%	0.67	0.75	8.6	9.93	12.95	2.25	3.30
BE1	0.81	35%	0.56	0.64	9.3	9.66	12.60	4.38	6.49
BE2	0.63	54%	0.65	0.74	9.1	9.73	12.69	3.98	5.84
BE3	0.96	42%	0.60	0.68	9.5	9.58	12.50	5.50	8.11
BE4	0.50	66%	0.71	0.80	8.9	9.82	12.81	3.47	5.06
BE5	0.94	45%	0.61	0.69	10.0	9.39	12.24	5.37	7.91
BE6	0.77	53%	0.65	0.73	9.0	9.76	12.74	4.88	7.16

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Manor Heights Phase 5
Proposed "C" Value Calculations

DRAINAGE AREA	AREA (Ac.)	Lots	SF of Lots	LF of Local	SF of Local	IMPERVIOUS COVER (sf)	IMPERVIOUS COVER %	Comp. C_{10}	Comp. C_{25}	Comp. C_{100}
A0	1.241	5.00	17,700	479	9341	27,041	50%	0.58	0.64	0.72
A1	0.477	1.00	3,540	217	4232	7,772	37%	0.52	0.57	0.65
A2	0.451	0.00	0	765	14918	14,918	76%	0.70	0.76	0.85
A3	1.170	3.00	10,620	378	7371	17,991	32%	0.50	0.55	0.62
A4	1.075	5.00	20,100	433	8444	28,544	61%	0.63	0.69	0.77
A5	0.833	3.50	12,390	521	10160	22,550	62%	0.64	0.69	0.78
A6	0.884	3.50	16,560	383	7469	24,029	62%	0.64	0.70	0.78
A7	0.552	1.00	4,340	482	9399	13,739	57%	0.61	0.67	0.75
A8	0.671	3.00	13,020	244	4758	17,778	61%	0.63	0.69	0.77
B0	0.476	2.50	8,850	160	3120	11,970	58%	0.62	0.67	0.75
C0	1.170	4.00	14,160	142	2769	16,929	13%	0.41	0.45	0.52
C1	0.626	3.00	10,620	176	3432	14,052	52%	0.59	0.64	0.72
D0	0.921	5.50	19,470	257	5012	24,482	61%	0.63	0.69	0.77
D1	0.530	1.00	3,540	452	8814	12,354	54%	0.60	0.65	0.73
D2	1.088	4.50	15,930	380	7410	23,340	49%	0.58	0.63	0.71
D3	0.394	0.00	0	554	10803	10,803	63%	0.64	0.70	0.78
D4	0.998	5.50	19,470	164	3198	22,668	52%	0.59	0.65	0.73
D5	1.222	6.00	21,240	206	4017	25,257	47%	0.57	0.62	0.70
D6	0.248	0.00	0	422	8229	8,229	76%	0.70	0.76	0.85
D7	0.623	4.00	14,160	99	1933	16,093	59%	0.62	0.68	0.76
E0	0.970	3.50	12,390	204	3978	16,368	17%	0.43	0.47	0.55
E1	1.230	8.00	28,320	229	4466	32,786	101%	0.81	0.88	0.97
E2	1.042	4.00	14,160	373	7274	21,434	47%	0.57	0.62	0.70
F0	0.729	3.00	10,620	470	9165	19,785	62%	0.64	0.70	0.78
F1	0.454	1.00	3,540	300	5850	9,390	48%	0.57	0.62	0.70
F2	0.536	3.50	12,215	208	4056	16,271	70%	0.67	0.73	0.82
F3	0.801	4.00	15,735	150	2925	18,660	53%	0.60	0.65	0.73
G0	1.414	4.00	15,760	203	3959	19,719	32%	0.50	0.55	0.62
G1	0.760	3.50	12,390	317	6182	18,572	56%	0.61	0.66	0.75
G2	1.688	6.00	25,240	274	5343	30,583	42%	0.54	0.59	0.67
G3	0.360	0.00	0	490	9555	9,555	61%	0.63	0.69	0.77
G4	0.993	4.50	19,530	315	6143	25,673	59%	0.62	0.68	0.76
G5A	1.013	4.00	17,360	340	6630	23,990	54%	0.60	0.66	0.74
G5B	0.922	4.00	17,360	170	3315	20,675	51%	0.59	0.64	0.72
H0	1.447	4.00	17,360	150	2925	20,285	32%	0.50	0.55	0.62
I0	1.084	3.50	15,190	181	3530	18,720	40%	0.53	0.58	0.66
I1A	0.518	0.50	2,170	374	7293	9,463	42%	0.54	0.60	0.67
I1B	0.809	2.00	8,680	520	10140	18,820	53%	0.60	0.65	0.73
J0	1.603	4.50	19,530	263	5129	24,659	35%	0.51	0.56	0.64
K0	0.694	5.00	17,450	256	4992	22,442	74%	0.69	0.75	0.84
K1A	0.539	3.00	10,470	212	4134	14,604	62%	0.64	0.69	0.78
K1B	0.833	5.00	21,700	316	6162	27,862	77%	0.70	0.77	0.85
K2A	0.181	0.00	0	316	6162	6,162	78%	0.71	0.77	0.86
K2B	0.030	0.00	0	65	1268	1,268	98%	0.80	0.87	0.96
K3	0.442	2.00	8,680	195	3803	12,483	65%	0.65	0.71	0.79
K4A	0.809	1.50	6,510	725	14138	20,648	59%	0.62	0.68	0.76
K4B	0.740	3.50	15,190	200	3900	19,090	59%	0.62	0.68	0.76
OFF-K	18.010	0.00	0	0	0	0	0%	0.35	0.39	0.46
L1A	0.577	3.00	10,470	333	6494	16,964	68%	0.66	0.72	0.80
L1B	0.280	0.00	0	156	3040	3,040	25%	0.46	0.51	0.59
M0	1.257	5.00	21,700	111	2165	23,865	44%	0.55	0.60	0.68
M1	1.129	6.00	26,040	66	1289	27,329	56%	0.61	0.66	0.74
M2	1.136	5.00	21,700	21	413	22,113	45%	0.56	0.61	0.69
M3	0.243	0.00	0	421	8210	8,210	78%	0.71	0.77	0.86

Manor Heights Phase 5
Proposed Inlet Runoff (Q) Calculations

D.A. Number	Drainage Area (Ac)	TOTAL I.C. (%)	Comp. C_{25}	Comp. C_{100}	TOTAL T_c (Min.)	i_{25} (in/hr)	i_{100} (in/hr)	Q_{25} (cfs)	Q_{100} (cfs)
A0	1.24	50%	0.64	0.72	13.1	8.41	11.14	6.63	9.89
A1	0.48	37%	0.57	0.65	7.7	10.32	13.75	2.82	4.27
A2	0.45	76%	0.76	0.85	9.0	9.78	13.00	3.36	4.97
A3	1.17	32%	0.55	0.62	20.7	6.79	8.98	4.33	6.54
A4	1.08	61%	0.69	0.77	12.2	8.68	11.51	6.43	9.54
A5	0.83	62%	0.69	0.78	9.4	9.62	12.78	5.57	8.27
A6	0.88	62%	0.70	0.78	9.2	9.69	12.88	5.96	8.86
A7	0.55	57%	0.67	0.75	13.9	8.21	10.87	3.03	4.50
A8	0.67	61%	0.69	0.77	12.6	8.56	11.34	3.95	5.86
B0	0.48	58%	0.67	0.75	9.4	9.63	12.79	3.09	4.60
C0	1.17	13%	0.45	0.52	21.3	6.68	8.85	3.54	5.43
C1	0.63	52%	0.64	0.72	11.7	8.82	11.69	3.55	5.29
D0	0.92	61%	0.69	0.77	10.5	9.20	12.21	5.84	8.67
D1	0.53	54%	0.65	0.73	13.3	8.35	11.06	2.89	4.30
D2	1.09	49%	0.63	0.71	14.2	8.11	10.74	5.57	8.31
D3	0.39	63%	0.70	0.78	7.4	10.49	13.98	2.88	4.30
D4	1.00	52%	0.65	0.73	17.7	7.33	9.70	4.72	7.02
D5	1.22	47%	0.62	0.70	10.7	9.16	12.15	6.97	10.42
D6	0.25	76%	0.76	0.85	7.0	10.69	14.27	2.02	3.00
D7	0.62	59%	0.68	0.76	7.2	10.56	14.08	4.48	6.69
E0	0.97	17%	0.47	0.55	17.8	7.30	9.66	3.36	5.14
E1	1.23	101%	0.88	0.97	12.7	8.51	11.27	9.26	13.52
E2	1.04	47%	0.62	0.70	8.1	10.14	13.50	6.56	9.85
F0	0.73	62%	0.70	0.78	13.2	8.37	11.09	4.24	6.29
F1	0.45	48%	0.62	0.70	10.0	9.40	12.48	2.66	3.98
F2	0.54	70%	0.73	0.82	8.6	9.92	13.19	3.89	5.77
F3	0.80	53%	0.65	0.73	27.6	5.84	7.75	3.05	4.55
G0	1.41	32%	0.55	0.62	12.5	8.59	11.39	6.65	10.04
G1	0.76	56%	0.66	0.75	10.3	9.29	12.32	4.69	6.99
G2	1.69	42%	0.59	0.67	22.3	6.54	8.66	6.55	9.82
G3	0.36	61%	0.69	0.77	7.4	10.50	13.99	2.60	3.88
G4	0.99	59%	0.68	0.76	9.1	9.74	12.94	6.58	9.80
G5A	1.01	54%	0.66	0.74	10.0	9.38	12.46	6.24	9.30
G5B	0.92	51%	0.64	0.72	14.6	8.01	10.60	4.74	7.06
H0	1.45	32%	0.55	0.62	8.4	10.01	13.32	7.93	12.03
I0	1.08	40%	0.58	0.66	10.6	9.18	12.18	5.82	8.74
I1A	0.52	42%	0.60	0.67	10.0	9.41	12.49	2.90	4.36
I1B	0.81	53%	0.65	0.73	10.6	9.18	12.18	4.84	7.21
J0	1.60	35%	0.56	0.64	10.3	9.28	12.32	8.38	12.64
K0	0.69	74%	0.75	0.84	10.7	9.15	12.14	4.79	7.06
K1A	0.54	62%	0.69	0.78	9.0	9.79	13.01	3.67	5.45
K1B	0.83	77%	0.77	0.85	11.3	8.94	11.85	5.70	8.41
K2A	0.18	78%	0.77	0.86	5.0	11.79	15.82	1.65	2.46
K2B	0.03	98%	0.87	0.96	6.2	11.11	14.86	0.29	0.42
K3	0.44	65%	0.71	0.79	9.5	9.58	12.72	3.00	4.45
K4A	0.81	59%	0.68	0.76	12.7	8.53	11.30	4.67	6.94
K4B	0.74	59%	0.68	0.76	8.5	10.00	13.30	5.03	7.50
OFF-K	18.01	0%	0.39	0.46	28.0	5.79	7.69	40.70	63.70
L1A	0.58	68%	0.72	0.80	12.2	8.68	11.50	3.61	5.34
L1B	0.28	25%	0.51	0.59	5.2	11.65	15.62	1.67	2.56
M0	1.26	44%	0.60	0.68	12.7	8.51	11.27	6.46	9.67
M1	1.13	56%	0.66	0.74	11.1	9.02	11.96	6.74	10.04
M2	1.14	45%	0.61	0.69	10.0	9.41	12.50	6.51	9.77
M3	0.24	78%	0.77	0.86	6.1	11.12	14.86	2.08	3.09

△1
STATE OF TEXAS
SARAH F. STARKEY
145662
LICENSED
PROFESSIONAL ENGINEER
10/30/2024 Sarah Starkey

No.	REVISIONS	DATE	BY
△1	UPDATED CALCS TO REFLECT ADDED MEDIUM DENSITY LOTS	10/30/2024	SFS

Kimley»Horn
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TEXAS REGISTERED ENGINEERING FIRM F-928

STATE OF TEXAS
JASON B. REECE
127126
LICENSED
PROFESSIONAL ENGINEER
6/23/2021

KHA PROJECT 069255700
DATE JUNE 2021
SCALE: AS SHOWN
DESIGNED BY: GBM
DRAWN BY: XRJ
CHECKED BY: JR

DRAINAGE CALCULATIONS

MANOR HEIGHTS PHASES 4 & 5
CITY OF MANOR
TRAVIS COUNTY, TEXAS

SHEET NUMBER
19