

15. Label water main size. Any existing hydrants? If so, label.

16. Fill in information or delete.

EXISTING CONDITION NOTES:

- BOUNDARY TAKEN FROM SURVEY BY GIL CLARK SURVEYING/2329 HODGE RD, KNIGHTDALE, NC 27545, (919) 266-9732. DATED 07-28-2022
- TOPOGRAPHIC INFORMATION TAKEN FROM BATEMAN CIVIL SURVEY COMPANY, 2524 RELIANCE AVENUE, APEX NC 27539 DATED
- WETLAND AND STREAM DELINEATION BY [REDACTED], DATED
- THE SUBJECT PROPERTY HAS FEMA 100 YR-FLOODWAY PER FEMA MAP #3720175700K WITH AN EFFECTIVE DATE OF JULY 19, 2022.
- SITE IS LOCATED WITHIN THE NEUSE RIVER BASIN.
- THIS SITE HAS ACCESS TO WATER, SEWER AND ELECTRICAL UTILITY SERVICES.
- NO NATURAL OR HISTORIC SITES HAVE BEEN IDENTIFIED ON OR ADJACENT TO THESE PROPERTIES AS PER DURHAM COUNTY NATURAL INVENTORY MAPS OR DURHAM HISTORIC RESOURCE MAPS.

17. Please remove the soil survey from this sheet to make existing conditions (topography and wetlands limits) easier to follow.

18. Add any and all demolition notes to this sheet or add an additional demolition plan with any required demolition labeled.

19. Add Use and Zoning for each property in this table.

ADJACENT PROPERTIES			
PLAN ID	PIN #	OWNER	DB/PG
A1	1757-38-4791	ROSARIO, MODESTO ESCARFULLER	19545 / 517
A2	1757-38-5884	CURTIS, HENDALL HEIRS	20-E / 3830
A3	1757-38-7858	GARCIA, SALVADOR	18610-E / 2740
A4	1757-38-5884	FERRELL, CHARLES E & FERRELL, SHARON R	20-E / 3830
A5	1757-38-8780	POWER ELEVEN CONSTRUCTION, LLC	19349 / 1245
A6	1757-48-0701	HARTSFIELD, ROZELIA J HEIRS HATTIE SMITH	10-E / 1220
A7	1757-48-1740	HARTSFIELD, ROZELIA J HEIRS HATTIE SMITH	10-E / 1220
A8	1757-36-1783	BIRMINGHAM, JOHN DAVIS	3642 / 732
A9	1757-26-9620	CARPENTER, BOBBY RAY CARPENTER, ALBERTA L	3406 / 541
A10	1757-26-6697	RIVERS, SUSAN MARSHALL	3406 / 539
A11	1757-16-4026	SOUTTER, SUSAN R SOUTTER, ROBERT QUENTIN	17592 / 381
A12	1757-38-7189	DUNN, JAMES WILLIAM HEIRS MONTAGUE, BUNNIE DUNN	N/A
A13	1757-38-7090	DURAN, ROBERTO A	16979 / 876
A14	1757-37-7799	WHITLEY, CLEVELAND G HEIRS	N/A
A15	1757-37-7699	JARVIS, MARIE D CURTIS, HURLEY MAE	11946 / 1968
A16	1757-37-8610	JARVIS, MYRON JARVIS, MARIE	9106 / 1133
A17	1757-38-5155	HARRIS, OLLIE VIRGIN HEIRS HARRIS, LORINE B	98-E / 2613
A18	1757-38-5249	BOSTIC, BILLIE D BOSTIC, JOHN	8518 / 367
A19	1757-27-7811	KENNETH INVESTMENTS, LLC	19248 / 1884
A20	1757-38-5562	QUIRINO, MARIA ESTELA	17501 / 945
A21	1757-28-9559	WILDER, THOMAS H III WILDER, MAGGIE	12-E / 3295

LINE TABLE		
LINE	BEARING	LENGTH
L1	N 68°36'32" E	20.00'
L2	N 89°33'15" W	60.01'
L3	S 02°47'46" E	100.00'
L4	S 89°47'46" E	150.00'
L5	N 55°18'54" E	174.59'
L6	S 31°00'37" W	57.95'
L7	S 00°09'07" E	175.02'
L8	N 89°21'02" E	45.00'
L9	S 00°09'07" E	100.01'
L10	S 88°57'37" W	150.00'
L11	N 00°53'13" W	100.00'
L12	N 88°57'37" E	150.00'
L13	S 06°57'52" W	113.70'
L14	N 73°55'50" E	149.95'

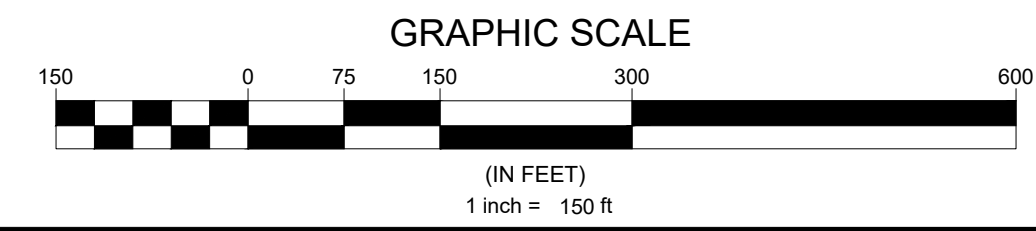
CURVE TABLE				
CURVE	CHORD BEARING	CHORD DISTANCE	ARC LENGTH	RADIUS
C1	S 19°15'36" E	146.36'	146.42'	1462.39'
C2	S 25°28'26" E	211.09'	211.27'	1462.39'

EXISTING CONDITIONS LEGEND

- EXISTING BOUNDARY / R.O.W.
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SEWER LINE
- EXISTING SANITARY SEWER MANHOLE S
- EXISTING WATERLINE
- EXISTING EASEMENT
- EXISTING FLOOD PLAIN
- EXISTING WETLANDS

20. Label *100 YEAR FLOOD PLAIN*

21. The Town prefers black and white plans. Please consider removing the color.



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Sheet map:

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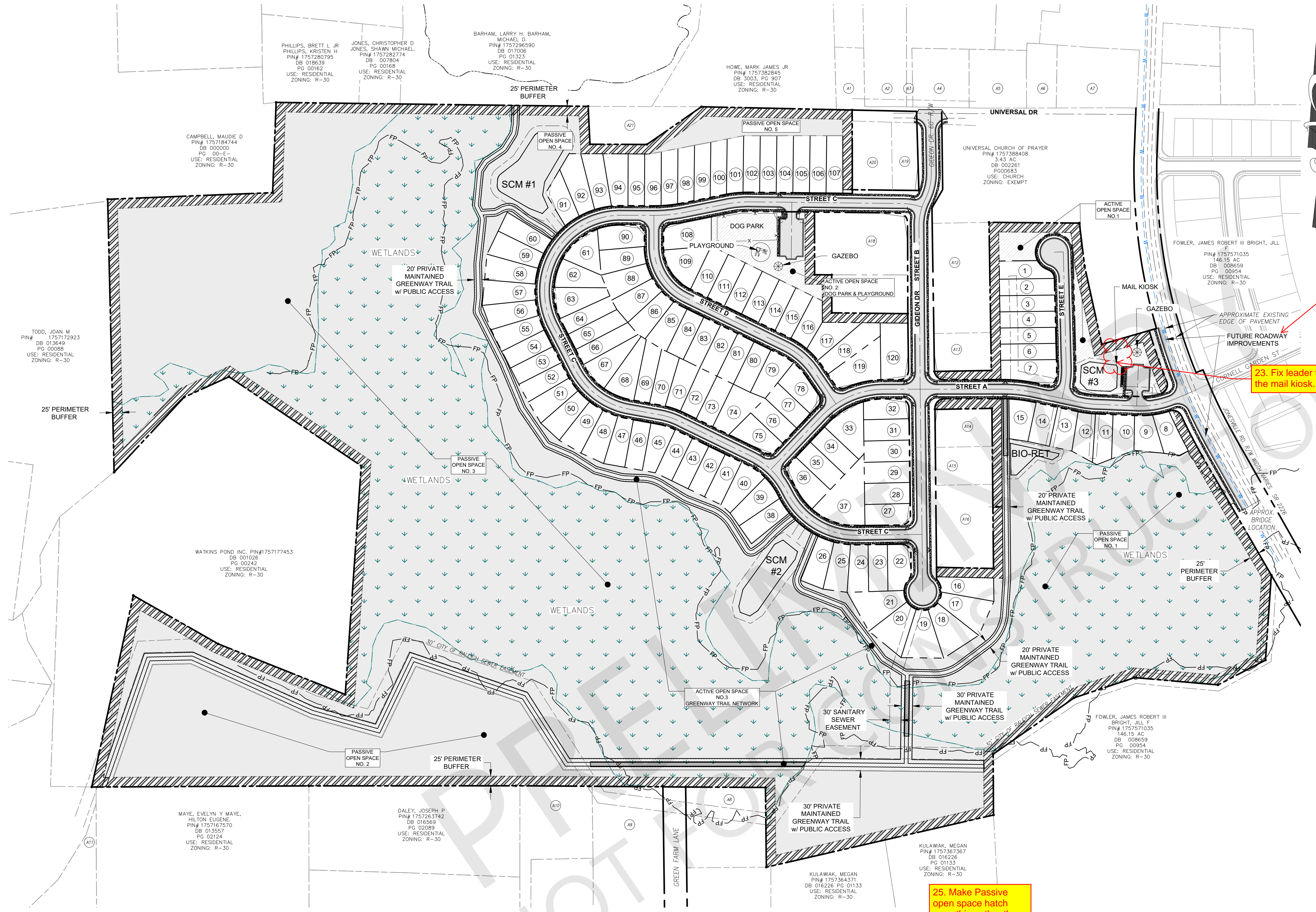
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No.	Date	Description

Sheet Title:
OVERALL EXISTING CONDITIONS

Sheet #:
2



GENERAL SITE NOTES:

- 1. SEE SHEET 10 FOR ROADWAY SECTIONS AND LINE & CURVE TABLES.

SITE DATA TABLE containing owner, engineer, developer, environmental consultant, residential density calculations, lot design standards, tree coverage summary, and street data.

22. Please clarify if the future roadway improvements will be part of these plans or submitted separately.

23. Fix leader to point to the mail kiosk.

25. Make Passive open space hatch something other than solid gray because it is too similar to the pavement hatch on the roads.

24. Passive.

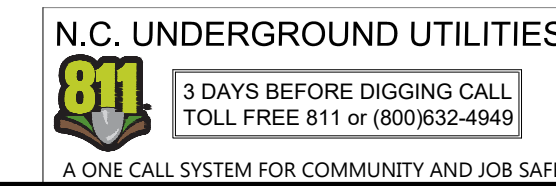
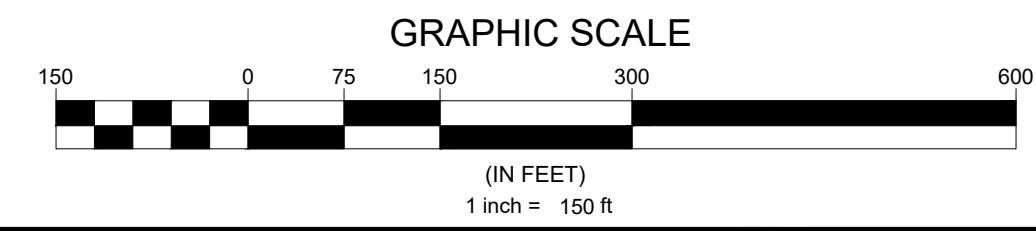
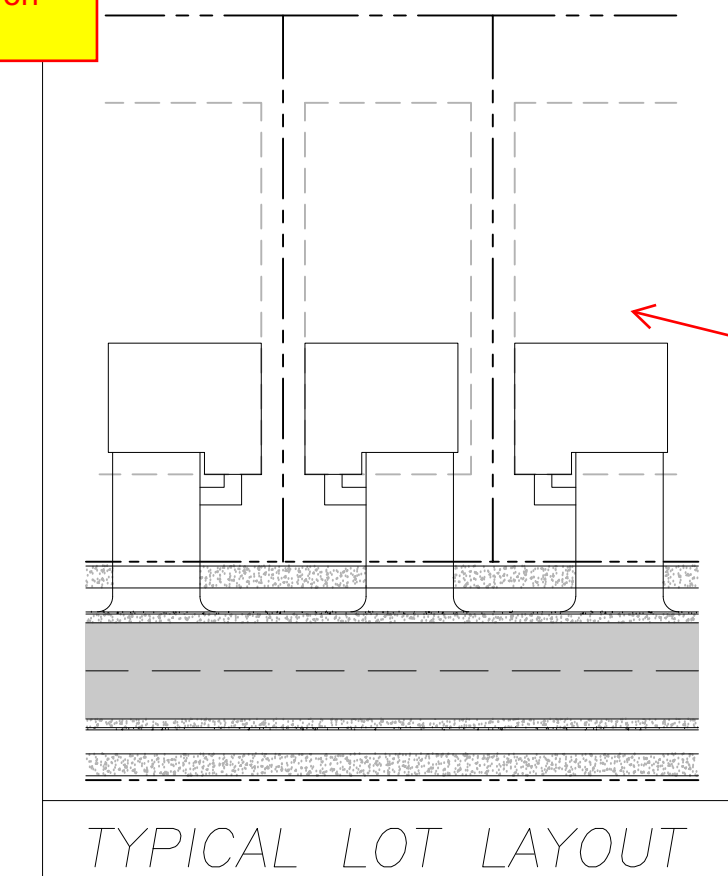
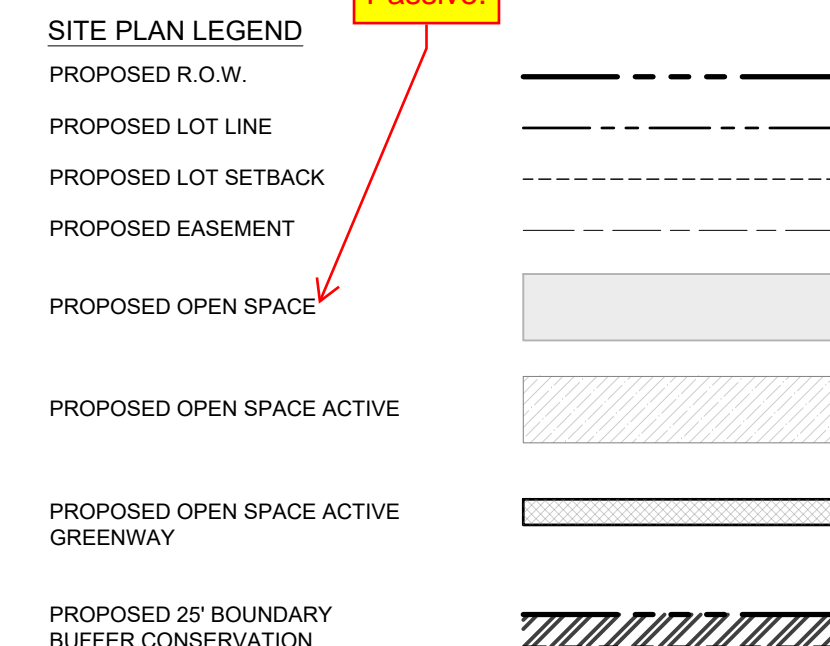
26. Add dimensions to the typical lot layout for typical setbacks, lot dimensions, etc.

27. Add sidewalk and associated hatch pattern to the legend here and on all site plan sheets. Add relevant existing conditions legend items to these sheets as well.

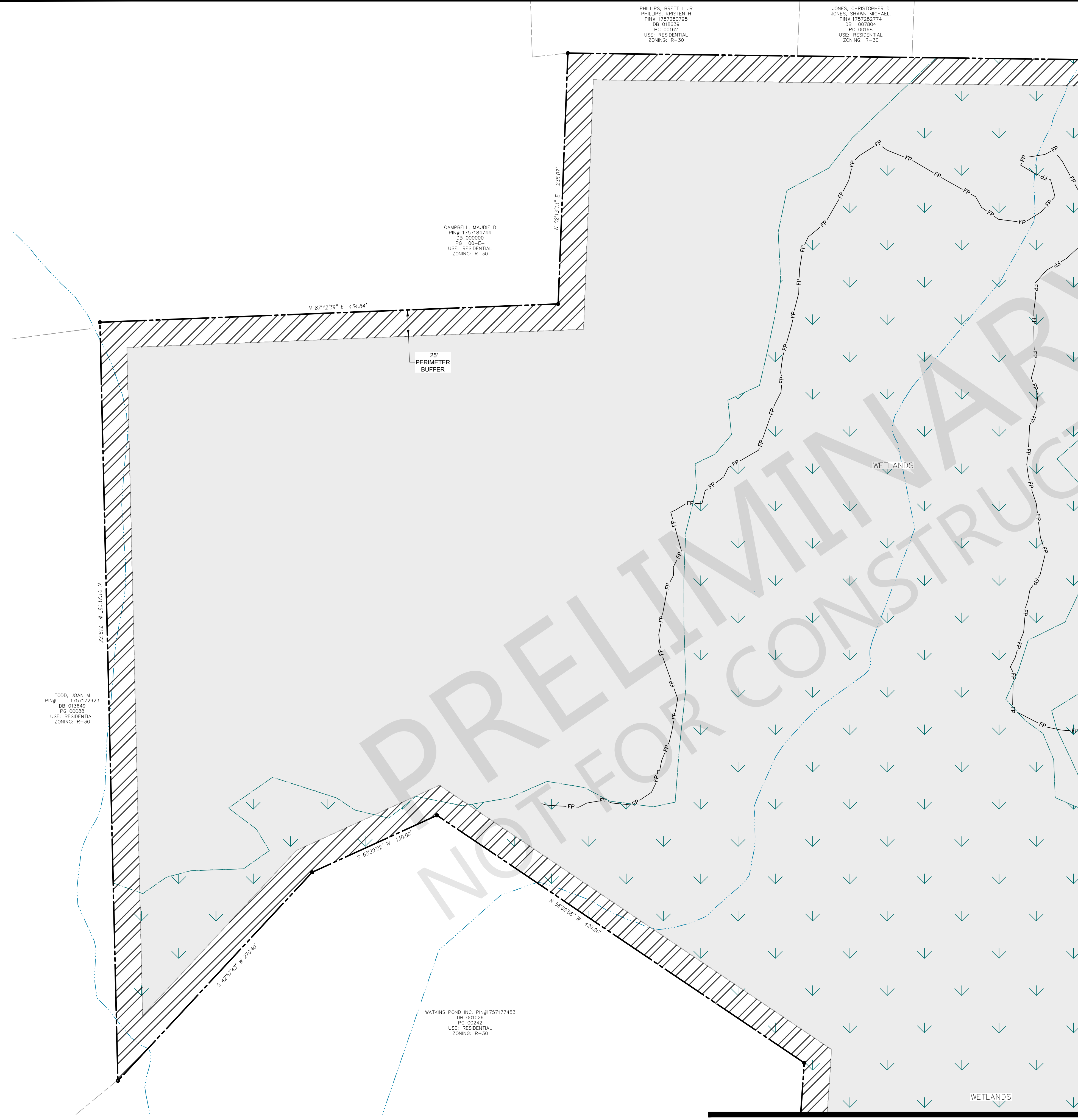
ADJACENT PROPERTIES table with columns for Plan ID, PIN #, Owner, and DB/PG.

OPEN SPACE (PASSIVE) table with columns for Open Space #, Area SF, and Area AC.

OPEN SPACE ACTIVE table with columns for Open Space #, Area SF, and Area AC.



Project information including Developer (The CSC Group), Engineer (Quantech Engineering), Surveyor (BCSO), Municipality (Town of Rolesville), and other consultants.



SITE PLAN LEGEND

PROPOSED R.O.W.

PROPOSED LOT LINE

PROPOSED LOT SETBACK

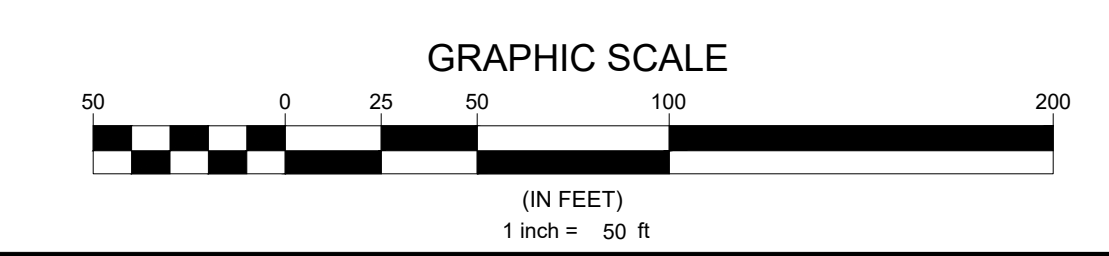
PROPOSED EASEMENT

PROPOSED OPEN SPACE

PROPOSED OPEN SPACE ACTIVE

PROPOSED OPEN SPACE ACTIVE GREENWAY

PROPOSED 25' BOUNDARY BUFFER CONSERVATION



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Other Consultants

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BY AN A HARRIS ENGINEER

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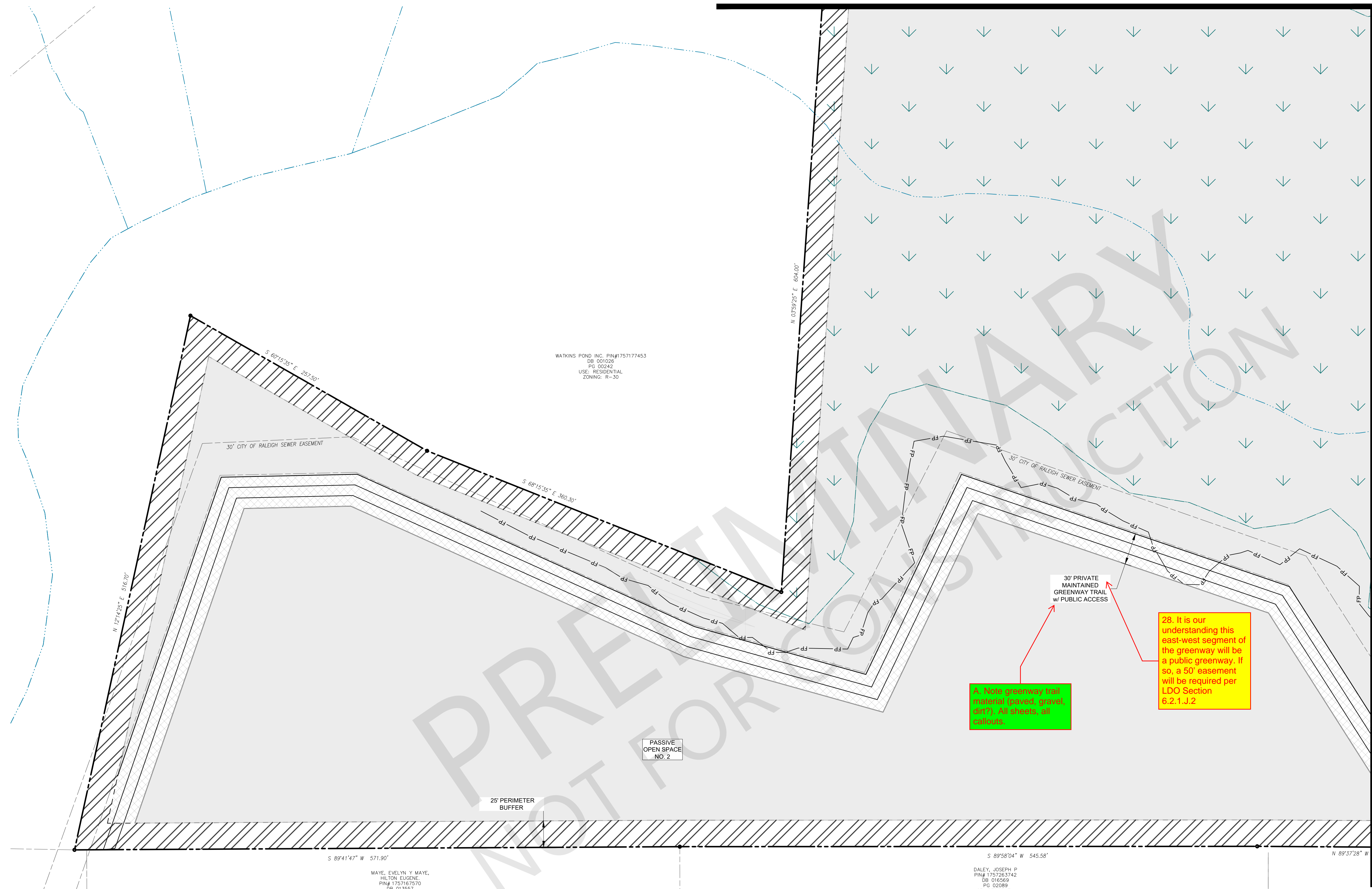
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Sheet Title:
SITE PLAN SHEET 1 OF 6

Sheet##:
4

MATCHLINE SEE SHEET 4



WATKINS POND, INC. PIN#175717453
 DB 001026
 PG 00242
 USE: RESIDENTIAL
 ZONING: R-30

PASSIVE
 OPEN SPACE
 NO. 2

DALEY, JOSEPH P.
 PIN# 1757263742
 DB 016569
 PG 020989
 USE: RESIDENTIAL
 ZONING: R-30

MAYE, EVELYN Y. MAYE,
 HILTON EUGENE
 PIN# 1757167570
 DB 013557
 PG 02124
 USE: RESIDENTIAL
 ZONING: R-30

WATKINS POND, INC.
 PIN#175063456
 DB 001000
 PG 00001

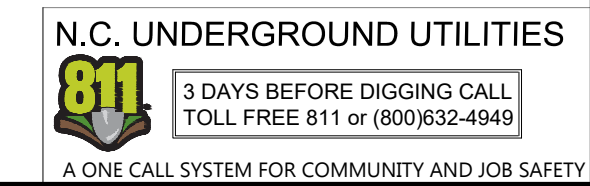
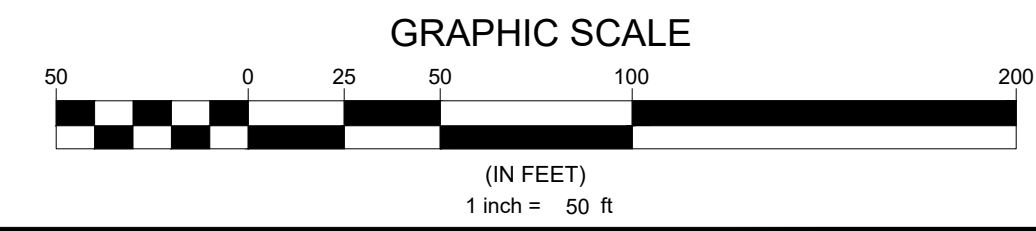
30' PRIVATE
 MAINTAINED
 GREENWAY TRAIL
 w/ PUBLIC ACCESS

28. It is our
 understanding this
 east-west segment of
 the greenway will be
 a public greenway. If
 so, a 50' easement
 will be required per
 LDO Section
 6.2.1.J.2

MATCHLINE SEE SHEET 7

SITE PLAN LEGEND

PROPOSED R.O.W.	---
PROPOSED LOT LINE	----
PROPOSED LOT SETBACK	- - - -
PROPOSED EASEMENT	----
PROPOSED OPEN SPACE	▒
PROPOSED OPEN SPACE ACTIVE	▨
PROPOSED OPEN SPACE ACTIVE GREENWAY	▩
PROPOSED 25' BOUNDARY BUFFER CONSERVATION	▧



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SITE PLAN SHEET 2 OF 6

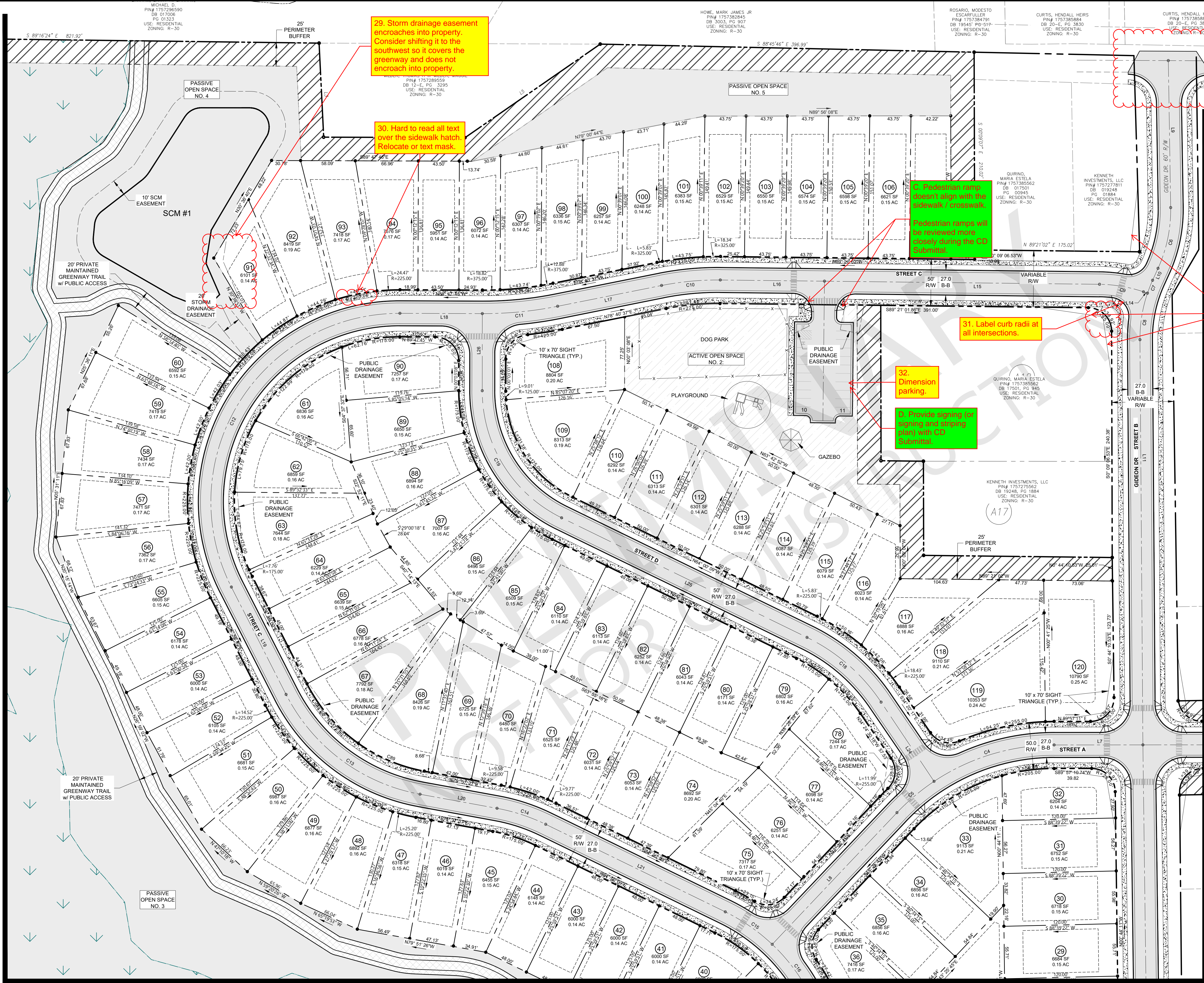
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5

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MATCHLINE SEE SHEET 4

MATCHLINE SEE SHEET 8

MATCHLINE SEE SHEET 7



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 BRYAN A. HARRIS

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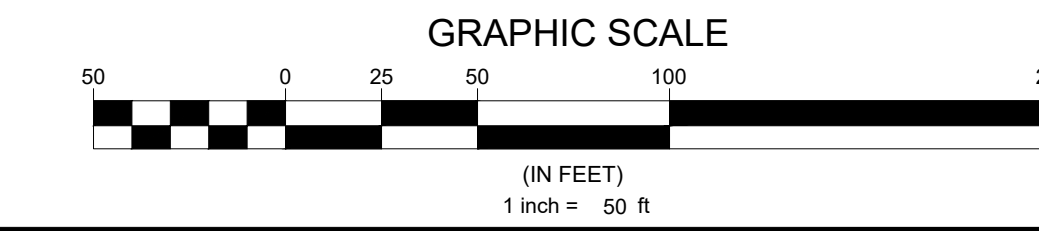
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SITE PLAN SHEET 3 OF 6

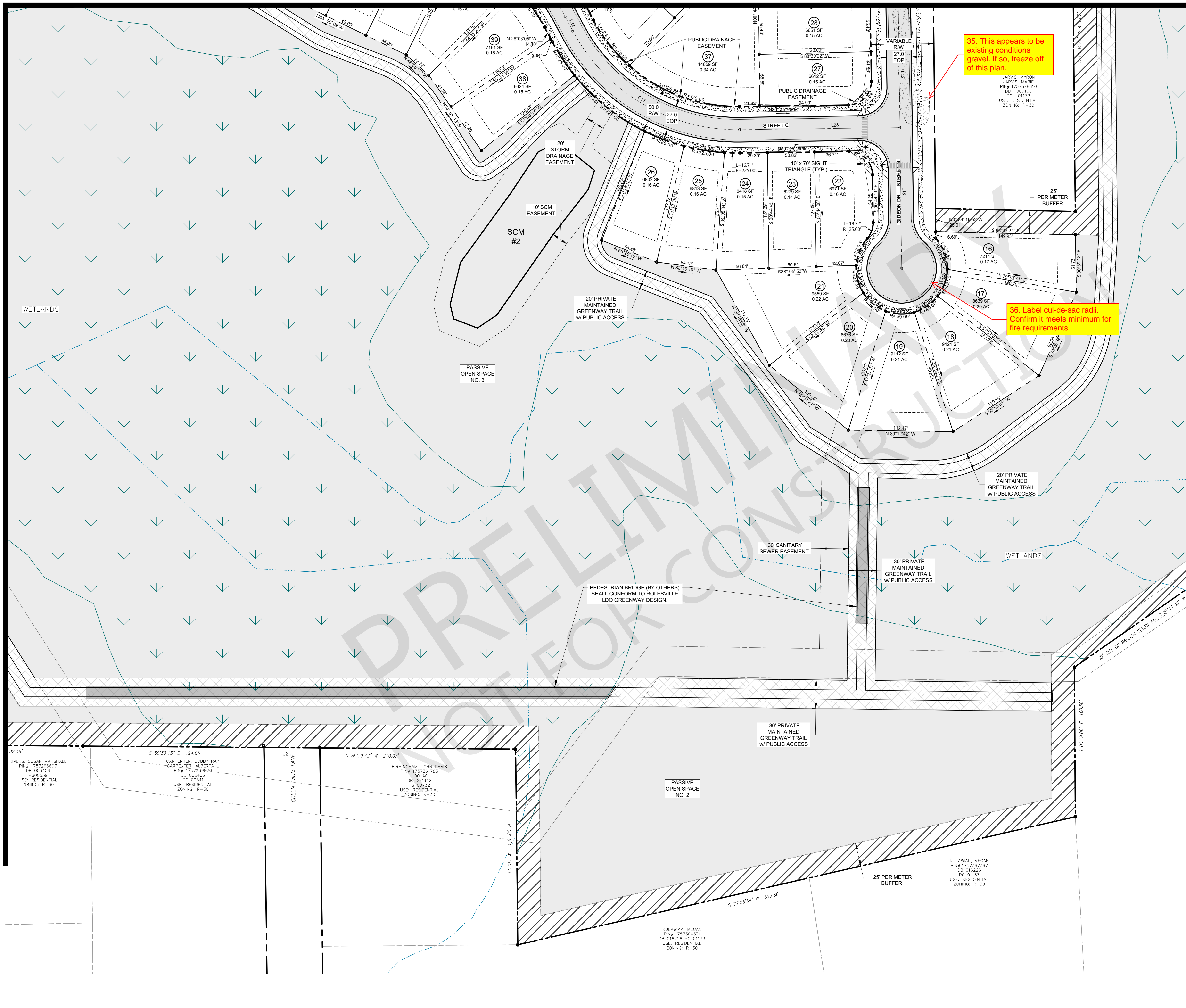
Sheet #:
6



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MATCHLINE SEE SHEET 6



MATCHLINE SEE SHEET 5

MATCHLINE SEE SHEET 9

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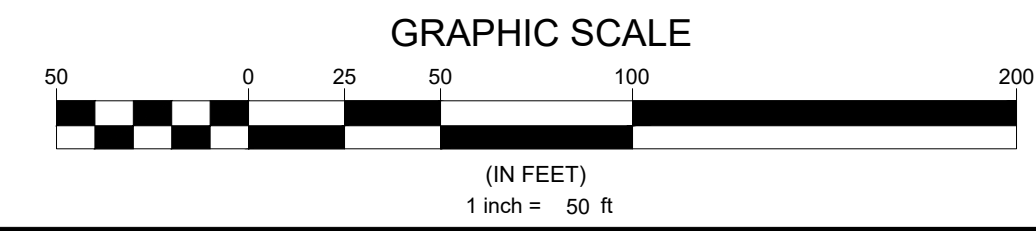
REVISIONS		
No.	Date	Description

Sheet Title:
SITE PLAN SHEET 4 OF 6

Sheet##:
7

SITE PLAN LEGEND

- PROPOSED R.O.W. —————
- PROPOSED LOT LINE - - - - -
- PROPOSED LOT SETBACK - - - - -
- PROPOSED EASEMENT -----
- PROPOSED OPEN SPACE [Solid Grey Box]
- PROPOSED OPEN SPACE ACTIVE [Diagonal Line Box]
- PROPOSED OPEN SPACE ACTIVE GREENWAY [Horizontal Line Box]
- PROPOSED 25' BOUNDARY BUFFER CONSERVATION [Hatched Box]

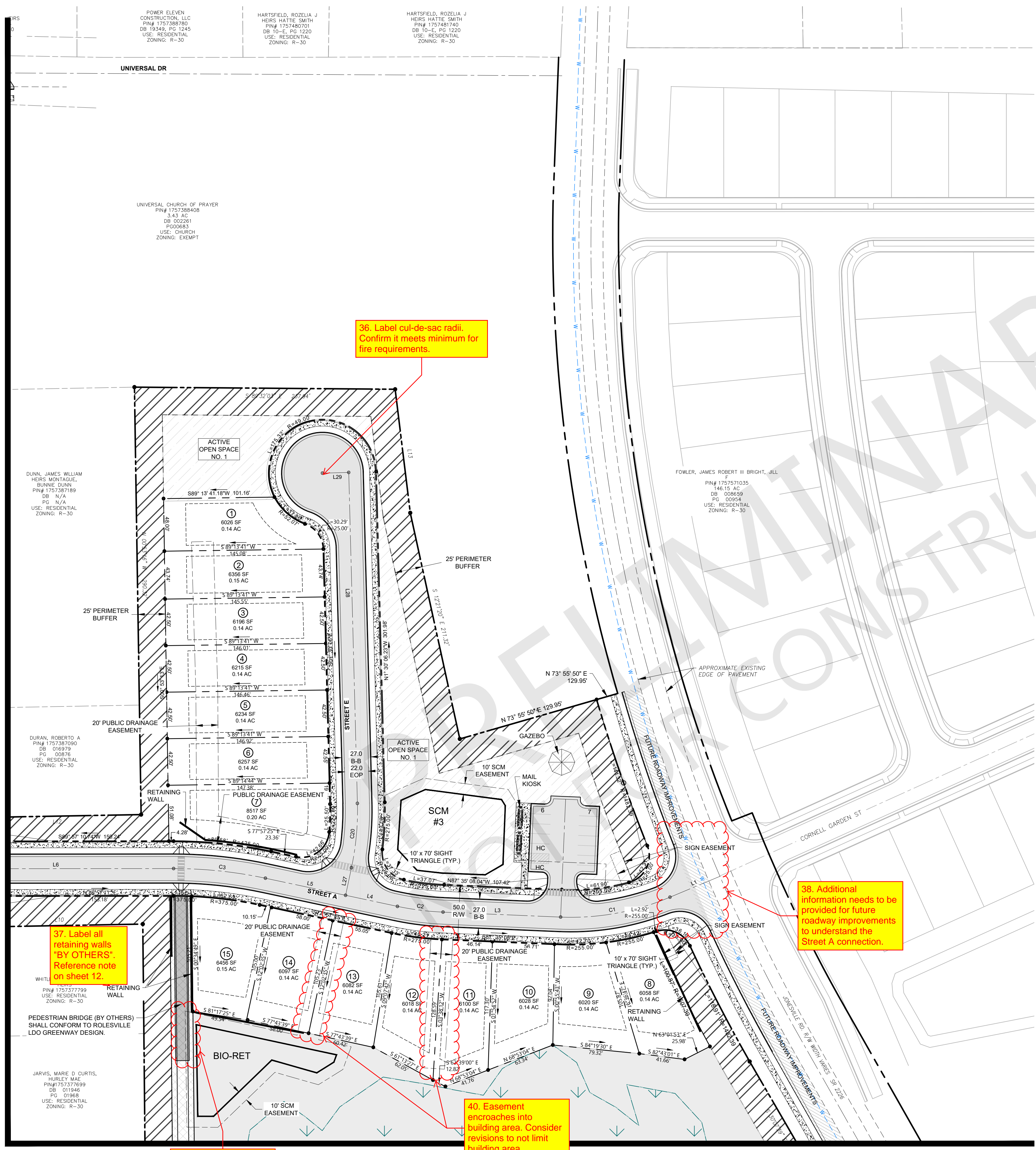


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MATCHLINE - SEE SHEET 6

MATCHLINE - SEE SHEET 9



36. Label cul-de-sac radii. Confirm it meets minimum for fire requirements.

38. Additional information needs to be provided for future roadway improvements to understand the Street A connection.

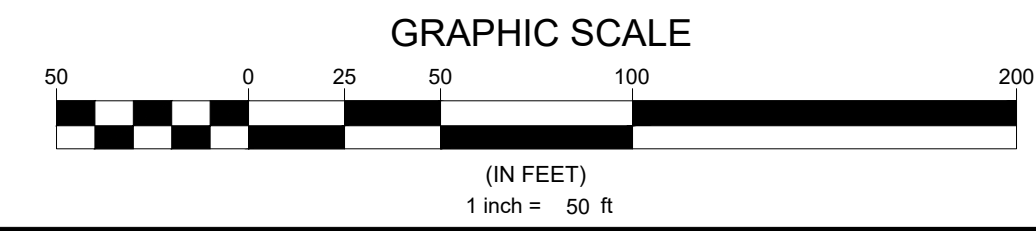
37. Label all retaining walls "BY OTHERS". Reference note on sheet 12.

40. Easement encroaches into building area. Consider revisions to not limit building area.

39. Easement overlaps pedestrian bridge. Adjust accordingly to access/maintenance to the SCM is possible.

SITE PLAN LEGEND

PROPOSED R.O.W.	---
PROPOSED LOT LINE	----
PROPOSED LOT SETBACK	----
PROPOSED EASEMENT	----
PROPOSED OPEN SPACE	░░░░
PROPOSED OPEN SPACE ACTIVE	▨▨▨▨
PROPOSED OPEN SPACE ACTIVE GREENWAY	▨▨▨▨
PROPOSED 25' BOUNDARY BUFFER CONSERVATION	▨▨▨▨▨▨▨▨



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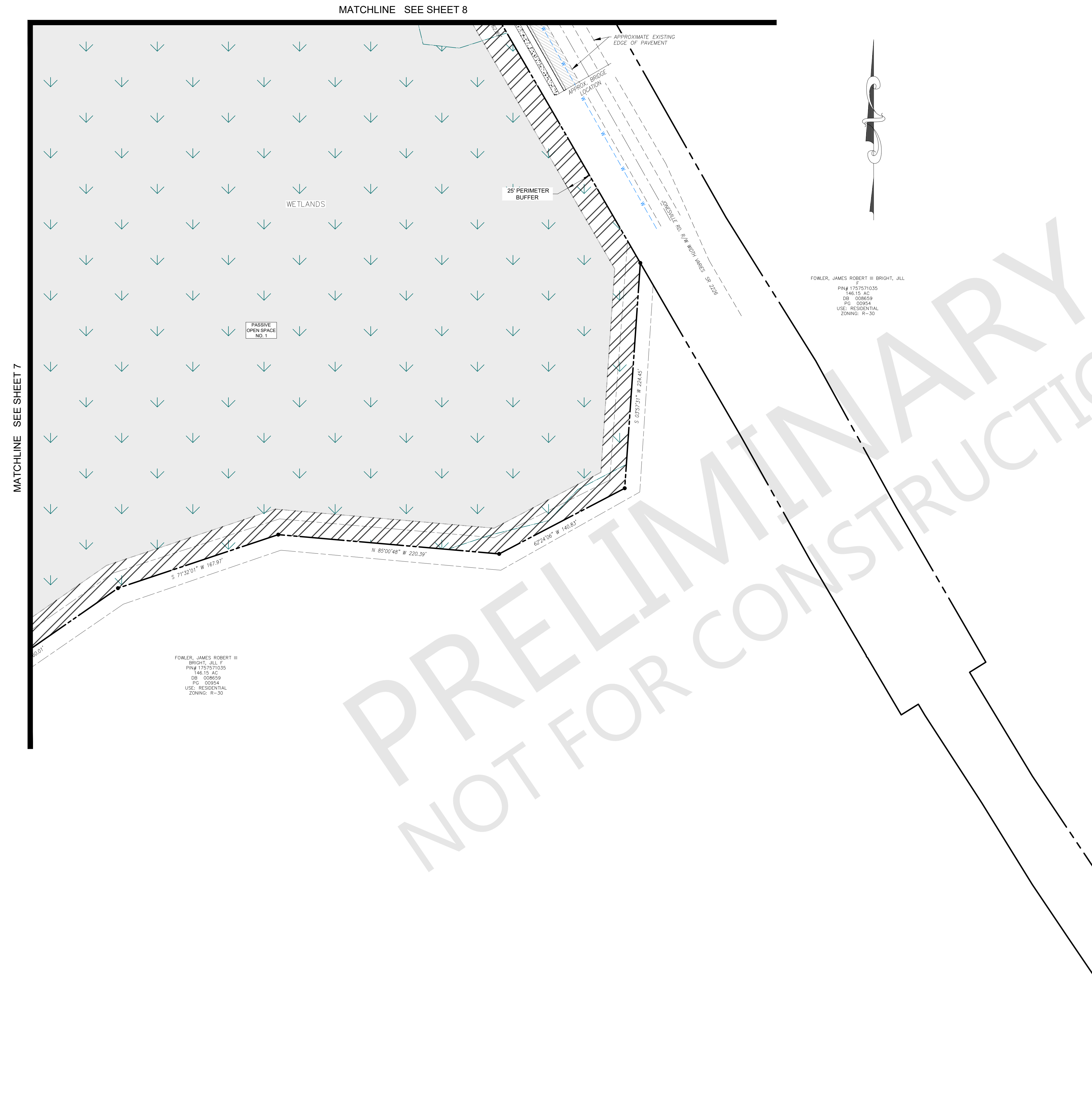
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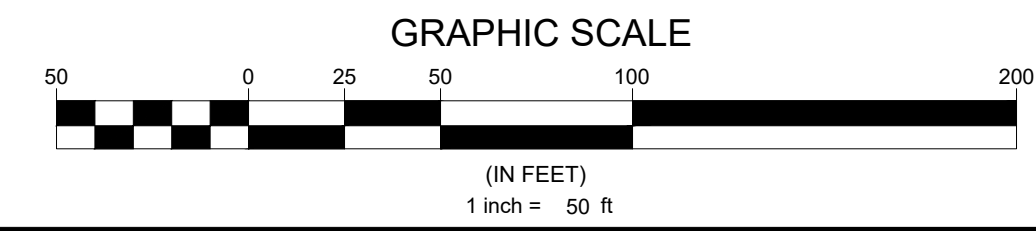
Sheet Title:
SITE PLAN SHEET 5 OF 6

Sheet#:
8



PRELIMINARY
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- SITE PLAN LEGEND**
- PROPOSED R.O.W.
 - PROPOSED LOT LINE
 - PROPOSED LOT SETBACK
 - PROPOSED EASEMENT
 - PROPOSED OPEN SPACE
 - PROPOSED OPEN SPACE ACTIVE
 - PROPOSED OPEN SPACE ACTIVE GREENWAY
 - PROPOSED 25' BOUNDARY BUFFER CONSERVATION



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Other Consultants

Sheet map:

Seal:

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 ENGINEER
 BRIAN A. WAR, S.

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No.	Date	Description

Sheet Title:
SITE PLAN SHEET 6 OF 6

Sheet#:
9

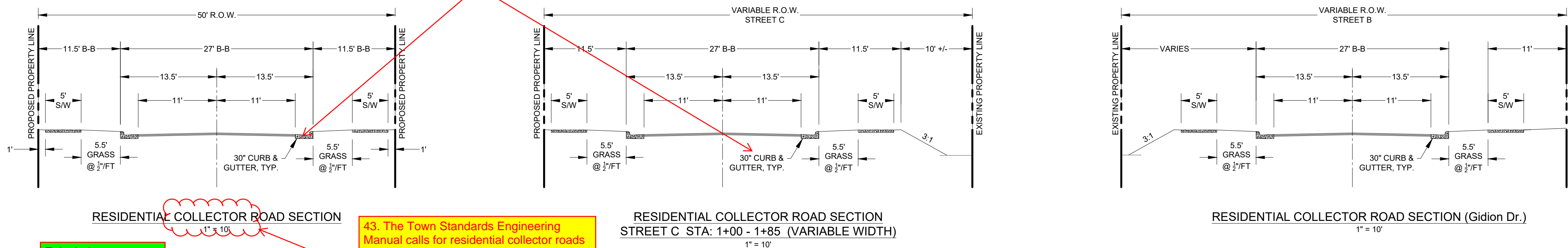
Line #	Length (ft)	BEARING
L1	49.17	S67° 19' 54"W
L3	107.42	N87° 35' 08"W
L4	48.36	N77° 57' 25"W
L5	74.84	N77° 57' 25"W
L6	217.09	S89° 57' 11"W
L7	94.23	S89° 57' 11"W
L8	192.60	S43° 25' 45"W
L9	156.18	N00° 55' 12"W
L10	13.91	N24° 26' 33"E
L11	430.33	N00° 25' 00"W
L12	382.48	N00° 44' 11"W
L13	151.07	N00° 44' 11"W
L14	4.45	N71° 12' 02"W
L15	292.04	N89° 21' 02"W
L16	110.61	N89° 21' 02"W
L17	112.54	S78° 40' 37"W
L18	87.42	N89° 47' 45"W
L19	127.98	S26° 59' 02"E
L20	83.10	S79° 37' 27"E
L21	212.08	S64° 00' 09"E
L22	17.81	S28° 03' 06"E
L23	171.92	N89° 15' 28"E
L24	101.20	N33° 43' 00"W
L25	289.80	N64° 00' 09"W
L26	81.90	N00° 03' 08"E
L27	25.76	N12° 02' 35"E
L28	302.29	N01° 30' 06"W
L29	24.00	S88° 26' 44"W

Curve #	Length (ft)	Radius
C1	102.26	230.00
C2	42.01	250.00
C3	84.40	400.00
C4	135.16	230.00
C5	51.60	230.00
C6	66.40	150.00
C7	14.77	150.00
C8	50.31	150.00
C9	47.52	150.00
C10	62.69	300.00
C11	80.48	400.00
C12	409.06	200.00
C13	183.75	200.00
C14	54.53	200.00
C15	60.85	200.00
C16	64.64	200.00
C17	218.83	200.00
C18	105.72	200.00
C19	167.69	150.00
C20	59.10	250.00

41. Minimum street centerline radius needs to meet NCDOT Subdivision requirements based on terrain; Minimum centerline radius = 230' for local subdivision roads

42. With the CD submittal, include appropriate details including but not limited to details of driveway, curb ramp, curb drainage transition (rolled curb to standard curb), and driveway apron.

42. Town Standards Engineering Manual requires valley curb on local residential streets and standard curb on residential collector streets. Please clarify the typical sections.



43. Include pavement design in road section details.

43. The Town Standards Engineering Manual calls for residential collector roads to be 15' lanes with a 34' F-F width. Define the collector vs. residential for these sections. Not all roads will be collectors.



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Sheet map:

Seal:
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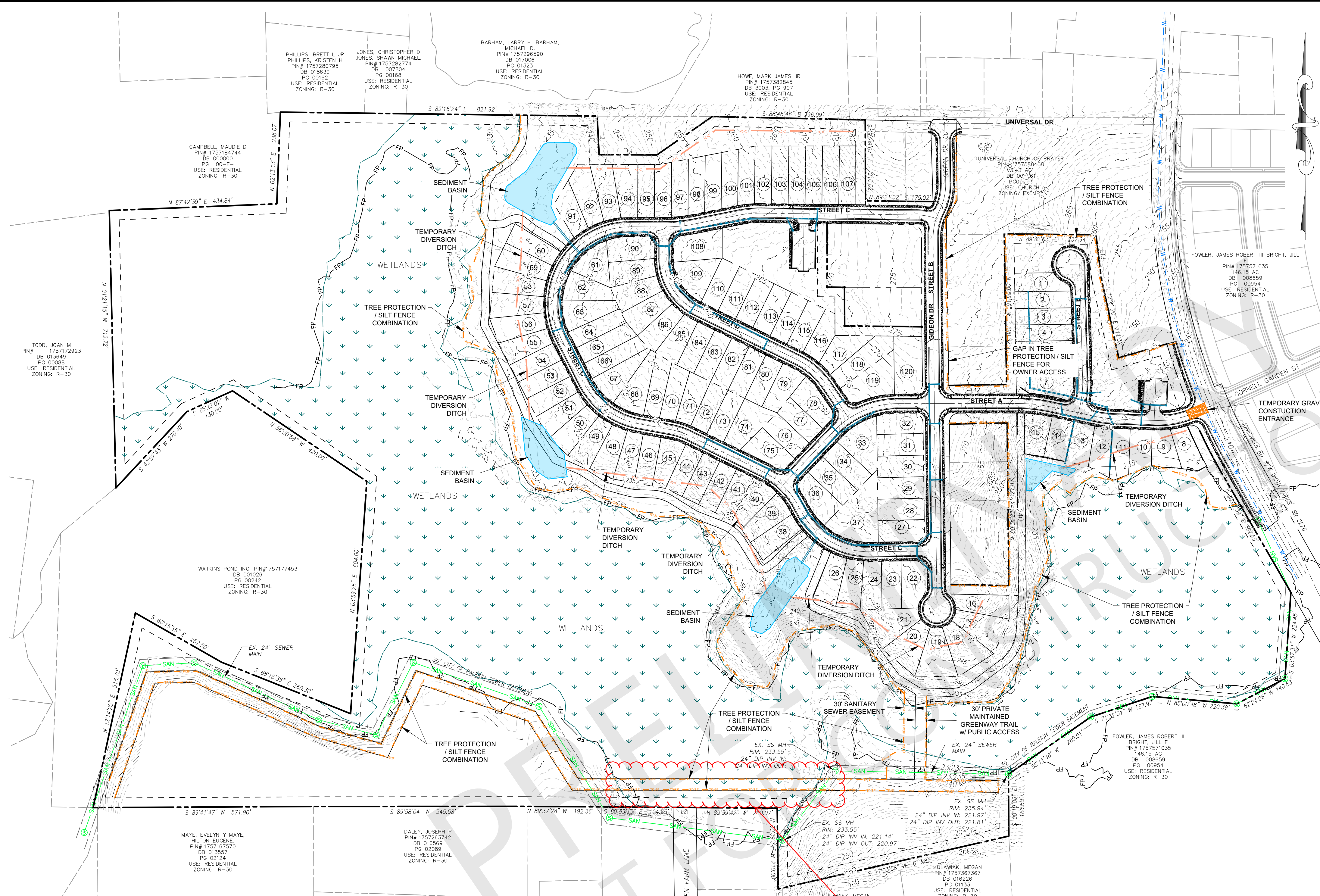
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Sheet Title:
**SITE PLAN
 DATA &
 DETAILS**

Sheet#:
10

N.C. UNDERGROUND UTILITIES

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WAKE COUNTY EROSION CONTROL SEQUENCE

1. Schedule a preconstruction conference with the Environmental Consultant. Obtain a land disturbing permit.
2. Install gravel construction pad, temporary diversions, silt fence, sediment basins or other measures as shown on the approved plan. Clear only as necessary to install these devices. Seed temporary diversions, berms and basins immediately after construction.
3. Call Environmental Consultant for an onsite inspection by the Environmental Consultant to obtain a Certificate of Compliance.
4. Begin clearing and grubbing. Maintain devices as needed. Rough grade site.
5. Install storm sewer, if shown, and protect inlets with block and gravel inlet controls, sediment traps or other approved measures as shown on the plan. Begin construction, building, etc.
6. Stabilize site as areas are brought up to finish grade with vegetation, paving, ditch linings, etc. Seed and mulch denuded areas per Ground Stabilization Time Frames.
7. When construction is complete and all areas are stabilized completely, call Environmental Consultant for an inspection.
8. If site is approved, remove temporary diversions, silt fence, sediment basins, etc., and seed out or stabilize any resulting bare areas. All remaining permanent erosion control devices, such as velocity dissipators, should now be installed.
9. When vegetation has become established, call for a final site inspection by the Environmental Consultant. Obtain a Certificate of Completion.

NPDES SELF INSPECTION PROGRAM

1. EFFECTIVE OCTOBER 1, 2010, PERSONS CONDUCTING LAND-DISTURBING ACTIVITY LARGER THAN ONE ACRE MUST INSPECT THEIR PROJECT AFTER EACH PHASE OF THE PROJECT, AND DOCUMENT THE INSPECTION IN WRITING. EROSION AND SEDIMENTATION CONTROL MEASURES, INCLUDING BUT NOT LIMITED TO, SEDIMENTATION CONTROL BASINS, SEDIMENTATION TRAPS, ROCK DAMS, TEMPORARY DIVERSIONS, TEMPORARY SLOPE DRAINS, SEDIMENT FENCE OR BARRIERS, ALL FORMS OF INLET PROTECTION, STORM DRAINAGE FACILITIES, ENERGY DISSIPATORS, AND STABILIZATION METHODS OF OPEN CHANNELS MUST BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY, LANDOWNER, OR THEIR AGENT. THE SELF-INSPECTION REPORTING FORM IS AVAILABLE AS PDF FROM THE LAND QUALITY WEBSITE: <https://deq.nc.gov/about/divisions/energy-mineral-land-resources/erosion-sediment-control/forms>
2. IN ADDITION TO THE INSPECTIONS BY THE CONTRACTOR, THE OWNER, THE FINANCIALLY RESPONSIBLE PARTY, OR THEIR AGENT MUST CONDUCT INSPECTIONS IN ACCORDANCE WITH THE STATE OF NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY CONSTRUCTION GENERAL PERMIT NCG 010000 SELF-INSPECTION PROGRAM AND REPORTING REQUIREMENTS TO MONITOR AND MAINTAIN A RAIN GAUGE, RECORDS, PERMIT, AND S&E PLAN ON SITE.

EROSION CONTROL NOTES

1. A COPY OF THE APPROVED EROSION CONTROL PLAN AND PERMIT PLACARD MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL AND DURHAM COUNTY STANDARDS, SPECIFICATIONS AND DETAILS.
3. THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES.
4. FAILURE TO FOLLOW THE APPROVED PLAN, CONSTRUCTION SEQUENCE, AND DETAILS COULD SUBJECT THE CONTRACTOR AND/OR THE FINANCIALLY RESPONSIBLE PARTY TO FINES AND PENALTIES ISSUED BY EITHER THE DURHAM COUNTY EROSION CONTROL DIVISION OR NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY.
5. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR AN INSPECTION BY DURHAM COUNTY EROSION CONTROL ONCE INITIAL MEASURES ARE IN PLACE. (SEE CONSTRUCTION SEQUENCES)
6. CONTRACTOR SHALL INSPECT ALL SEDIMENT/EROSION CONTROL DEVICES WEEKLY AND AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF OF THE CAPACITY OF THE DEVICE. SEE NPDES SELF INSPECTION PROGRAM NOTES.
7. ANY GRADING BEYOND THE DENUDE LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
8. DISTURBANCE OUTSIDE OF THE SITE PROPERTY LIMITS OR PUBLIC RIGHT-OF-WAY SHALL ONLY BE AS ALLOWED BY SIGNED GRADING AGREEMENTS AND/OR EASEMENTS BETWEEN THE DEVELOPER AND THE OFFSITE PROPERTY OWNER.
9. NO DEBRIS SHALL BE TRACKED ONTO PUBLIC RIGHT OF WAY. IF THE SITUATION OCCURS WHERE MUD, ROCK AND DEBRIS IS TRACKED ONTO PAVEMENT, THE CONTRACTOR SHALL CLEAN THE PAVEMENT AND INSTALL ADDITIONAL MEASURES TO PREVENT THE FUTURE OCCURRENCE.
10. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND TREES, A CLEAN SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA AND SHALL BE INSTALLED AT THE SAME TIME AS THE EROSION CONTROL MEASURES AND SHALL BE IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
11. PROVIDE INLET PROTECTION AROUND ALL SITE STORM INLETS. PROTECT OPEN PIPES UNDER CONSTRUCTION WITH EITHER PLYWOOD OR WITH MESH AND GRAVEL WEIRS. RUNOFF SHALL NOT BE ALLOWED IN ANY OPEN TRENCH.
12. CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE RELIEF FROM CONCENTRATED FLOWS AND PONDING. APPROXIMATE LOCATIONS ARE SHOWN ON EROSION CONTROL PLANS.
13. TEMPORARY DIVERSIONS SHALL BE MAINTAINED DAILY BY CONTRACTOR SO THAT THEY ARE FUNCTIONAL AT THE END OF EACH WORKDAY AND WHEN STOPPING WORK FOR RAIN.
14. CONTRACTOR SHALL SEED AND STABILIZE ALL STEEP SLOPES (GREATER THAN 2H:1V) WITHIN 7 DAYS, 10 DAYS FOR MODERATE SLOPES (3H:1V OR GREATER) AND WITHIN 14 CALENDAR DAYS EVERYWHERE ELSE (STATE LAW 2009-486).

OFFSITE SPOIL NOTE:

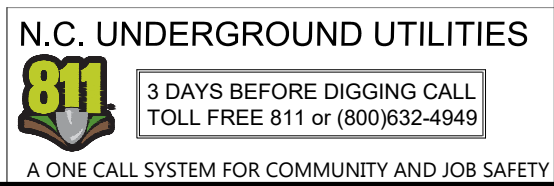
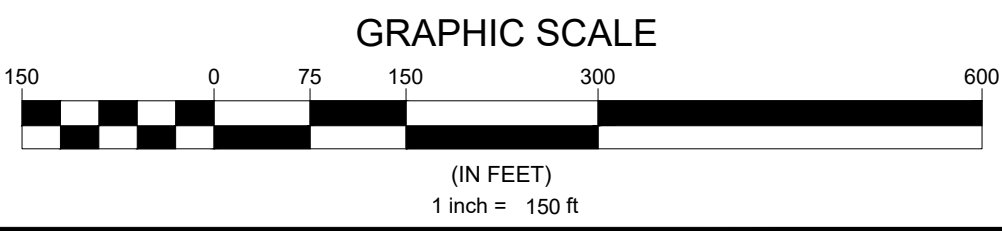
1. IF AN OFFSITE SOIL SPOIL OR BORROW SITE IS UTILIZED, THE DISTURBED AREA FOR THE SPOILED/BORROW SITE MUST BE INCLUDED IN THE LAND-DISTURBANCE PLAN AND PERMIT UNLESS THE SPOIL/BORROW SITE ALREADY HAS A SEPARATE LAND-DISTURBANCE PERMIT.

45. While Wake County will provide final approval of the EC plans, it is recommended to break out these sheets like is done with the site plan and grading plan to provide more detail.
 Missing items include: limits of disturbance, proposed contours, dimensions and/or details for EC measures, grading for sed basins.
 Some of this will be required during CDs.

44. Confirm additional/appropriate EC measures are provided at the wetlands.

EROSION CONTROL PLAN LEGEND

- TREE PROTECTION/SILT FENCE COMBINATION
- TEMPORARY DIVERSION DITCH
- TEMPORARY CONSTRUCTION ENTRANCE
- TEMPORARY SEDIMENT BASIN



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Sheet map:

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 53676
 BRYAN A. HARRIS
 ENGINEER

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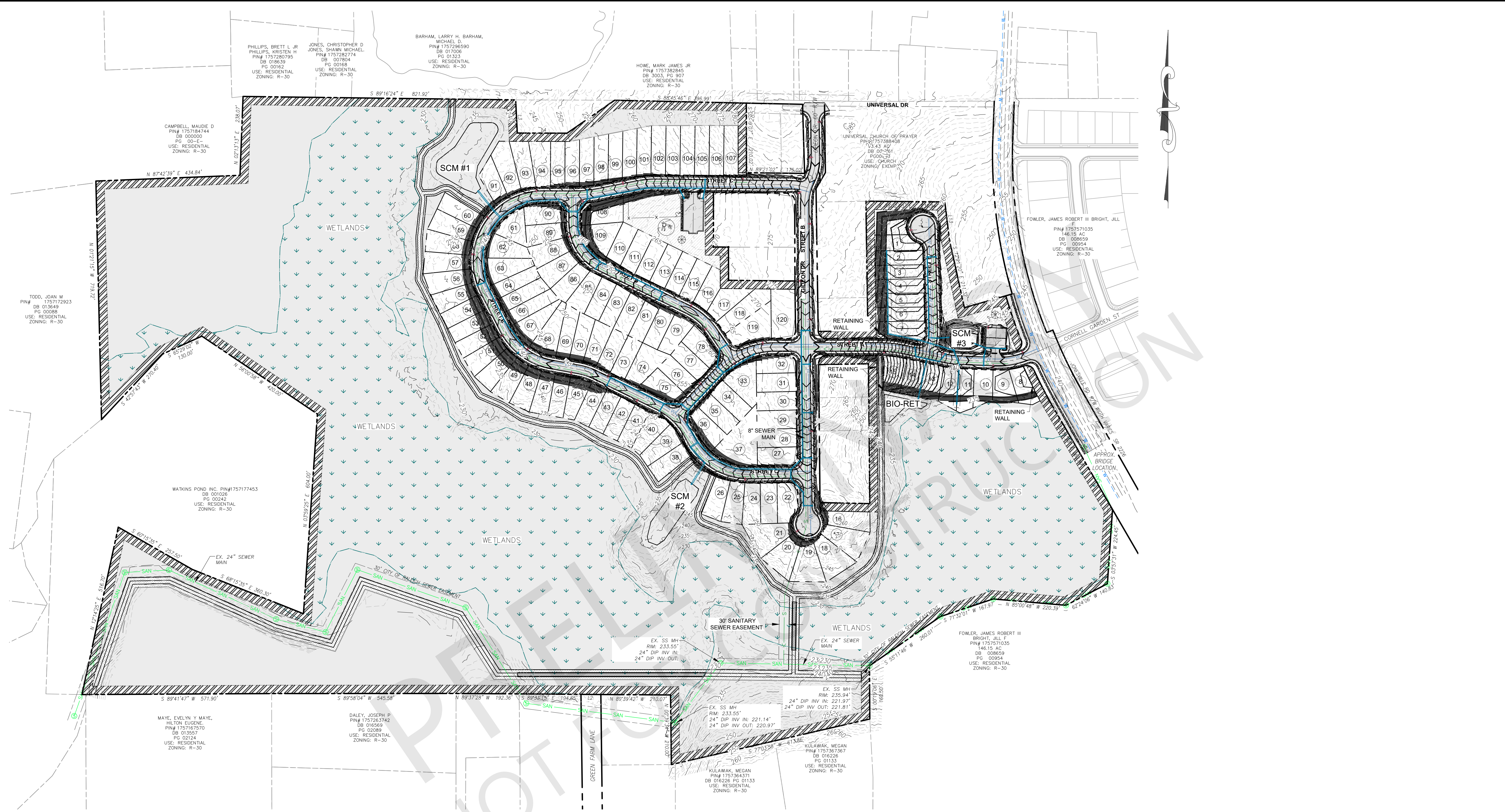
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OVERALL EROSION CONTROL PLAN

Sheet #:
11

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STORMWATER NOTES:

1. PRIOR TO BEGINNING CONSTRUCTION OF THE SCM(S), A PRECONSTRUCTION MEETING SHALL BE SCHEDULED WITH CITY STORMWATER IN ACCORDANCE WITH THE STANDARD PUBLIC WORKS' STORMWATER NOTE ON THE PLANS. THIS MEETING SHOULD BE SEPARATE FROM THE ENGINEERING INSPECTIONS' PRECONSTRUCTION MEETING AND SCHEDULING IT IS THE RESPONSIBILITY OF THE OWNER/DEVELOPER/ENGINEER. THE MEETING MUST BE ATTENDED BY THE PROJECT CONTRACTOR RESPONSIBLE FOR SCM CONSTRUCTION, THE BMP CERTIFYING ENGINEER (BCE) WHO HAS BEEN SECURED TO PROVIDE THE AS-BUILT CERTIFICATION, AND THE GEOTECHNICAL ENGINEER (REQUIRED WHEN EARTHEN DAMS INVOLVED). WATER/SEWER PERMITS WILL NOT BE ISSUED OR WHEN SUCH PERMITS ARE NOT REQUIRED, FINAL CONSTRUCTION DRAWING APPROVAL WILL NOT BE GRANTED UNTIL THIS MEETING HAS BEEN SCHEDULED.
2. THE PERMANENT POOL ELEVATION SHALL BE WITHIN 6 INCHES (PLUS OR MINUS) OF THE SEASONAL HIGH WATER TABLE (SHWT) ELEVATION. IF THE PERMANENT POOL WILL BE MAINTAINED THROUGH OTHER MEANS, A MAXIMUM INFILTRATION RATE OF 0.01 IN/HR SHALL BE ACHIEVED TO PREVENT EXCESSIVE SEEPAGE.
3. "SCM ACCESS AND MAINTENANCE EASEMENT" THAT ENCOMPASSES THE PROPOSED STORMWATER CONTROL MEASURE(S), A MINIMUM OF TEN FEET OF THE SURROUNDING AREA, AND A 20-FOOT WIDE PATH LEADING TO THE SCM FROM A PUBLIC ROW.
4. THE EASEMENT SHALL BE SHOWN, AT A MINIMUM, ON THE SITE PLAN AND GRADING PLAN.
5. THE EASEMENT SHALL PROVIDE UNOBSTRUCTED ACCESS FROM A PUBLIC RIGHT-OF-WAY TO AND AROUND THE STORMWATER CONTROL MEASURE VIA AN ACCEPTABLE TRAVERSABLE SURFACE CAPABLE OF SUPPORTING ANTICIPATED MAINTENANCE EQUIPMENT.
6. THE ACCESS SHALL HAVE A MAXIMUM CENTERLINE GRADE AND CROSS-SLOPE OF FIFTEEN PERCENT (15%) AND TEN PERCENT (10%) RESPECTIVELY.
7. SEE SECTION 7.2.1 OF THE DURHAM ADDENDUM TO THE BMP MANUAL FOR ADDITIONAL REQUIREMENTS FOR THE EASEMENT.

46. Referencing Durham; adjust accordingly.

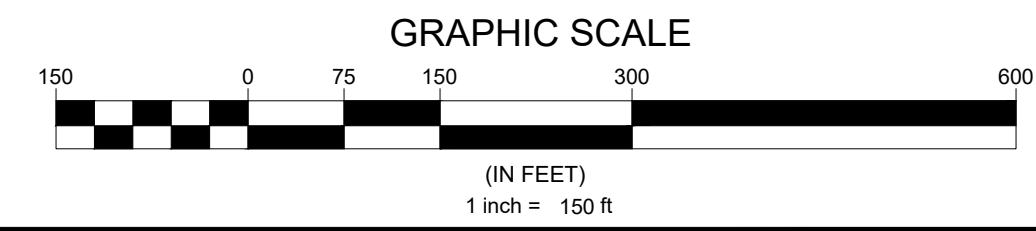
GRADING AND STORMWATER PLAN NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ROLESVILLE STANDARDS AND SPECIFICATIONS.
2. ALL PERMITS SHALL BE OBTAINED FROM THE CITY OF ROLESVILLE, WAKE COUNTY, NCDOT, NCDEQ-DWR, AND USACE AS APPLICABLE PRIOR TO BEGINNING CONSTRUCTION. A COPY OF ALL PERMITS SHALL BE SUBMITTED TO THE TOWN OF ROLESVILLE FOR THEIR RECORDS.
3. SCMS SHALL BE DESIGNED TO CONTROL AND TREAT THE DIFFERENCE IN STORMWATER RUNOFF VOLUME LEAVING THE PROJECT SITE BETWEEN THE PRE- AND POST- DEVELOPMENT CONDITIONS FOR, AT A MINIMUM, THE 1-YEAR, 24-HOUR STORM.
4. SCMS SHALL BE DESIGNED TO HAVE A MINIMUM OF 85% AVERAGE ANNUAL REMOVAL FOR TOTAL SUSPENDED SOLIDS.
5. ALL SCMS ASSOCIATED WITH THIS PROJECT WILL REQUIRE MAINTENANCE EASEMENTS AND AN OPERATION AND MAINTENANCE AGREEMENT TO BE NOTED ON THE FINAL PLAT. ALL OF THESE ITEMS WILL NEED TO BE RECORDED WITH THE COUNTY REGISTER OF DEEDS.
6. AT THE START OF GRADING INVOLVING THE LOWERING OF THE EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THIS CUT FURTHEST AWAY FROM THE TREE TRUNK.
7. NO STORAGE OF MATERIALS, DUMPING OF WASTE MATERIALS, FILL, OR PARKING OF EQUIPMENT SHALL BE ALLOWED WITHIN THE ROOT PROTECTION ZONE, AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE ROOT PROTECTION ZONE.

NOTE:
RETAINING WALLS AND ASSOCIATED DRAINAGE TO BE DESIGNED BY OTHERS.
CONTRACTOR SHALL COORDINATE DESIGN AND SUBMIT SEALED PLAN FOR REVIEW AND APPROVAL BY THE TOWN INSPECTIONS DEPARTMENT.

GRADING PLAN LEGEND

EXISTING MAJOR CONTOUR	---
EXISTING MINOR CONTOUR	- - - - -
PROPOSED MINOR CONTOUR	...
PROPOSED MAJOR CONTOUR	---
PROPOSED BOUNDARY	- - - - -
PROPOSED R.O.W.	---
EXISTING SEWER LINE	--- SAN --- SAN
EXISTING SEWER MANHOLE	⊙
PROPOSED SEWER LINE	--- S --- S
PROPOSED SEWER MANHOLE	⊙
EXISTING WATER LINE	--- W --- W
PROPOSED WATERLINE	---
EXISTING EASEMENT	---
PROPOSED EASEMENT	---
PROPOSED STORM WATER INLET	•
PROPOSED STORM PIPE	---



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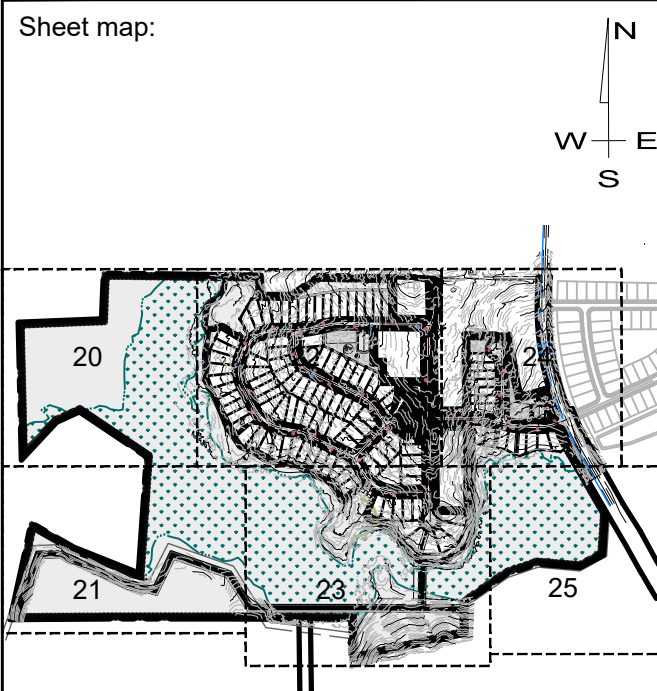
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ENGINEERS

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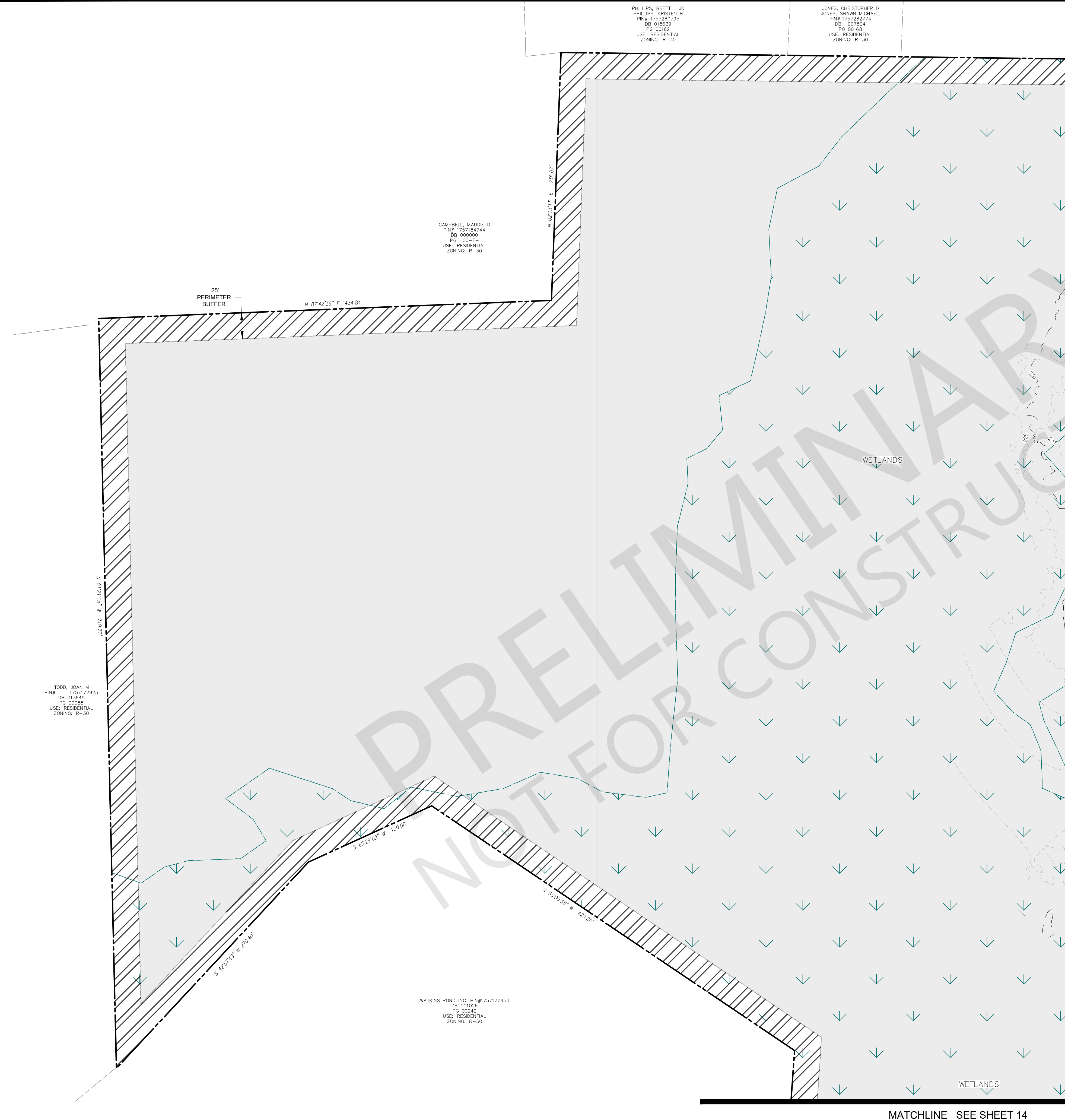
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OVERALL GRADING & DRAINAGE PLAN

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12

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PHILLIPS, KRISTEN H
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PG 001662
USE: RESIDENTIAL
ZONING: R-30

JONES, CHRISTOPHER D
JONES, SHAWN MICHAEL
PIN# 1752280774
DB 007804
PG 001648
USE: RESIDENTIAL
ZONING: R-30

CAMPBELL, MAUDIE D
PIN# 1757184744
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TODD, JOAN M
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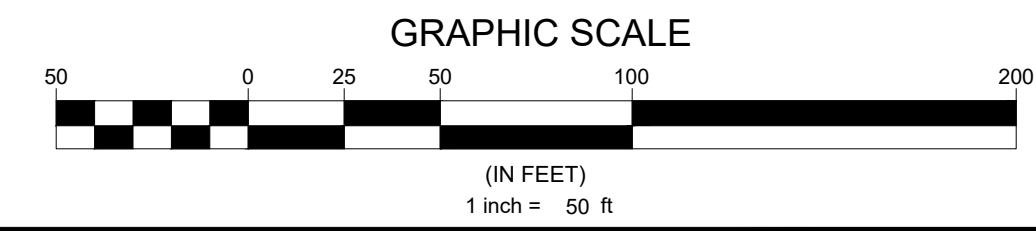
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MATCHLINE SEE SHEET 15

MATCHLINE SEE SHEET 14

GRDING PLAN LEGEND

EXISTING MAJOR CONTOUR	---
EXISTING MINOR CONTOUR	- - - - -
PROPOSED MINOR CONTOUR	---
PROPOSED MAJOR CONTOUR	---
PROPOSED R.O.W.	---
PROPOSED LOT LINE	---
EXISTING SEWER LINE	--- SAN --- SAN ---
EXISTING SEWER MANHOLE	⊙
PROPOSED SEWER LINE	--- S --- S ---
PROPOSED SEWER MANHOLE	⊙
EXISTING WATER LINE	--- W --- W ---
PROPOSED WATERLINE	--- W --- W ---
PROPOSED GATE VALVE	⊕
EXISTING EASEMENT	---
PROPOSED EASEMENT	---
PROPOSED STORM WATER INLET	⊕
PROPOSED STOR PIPE	---



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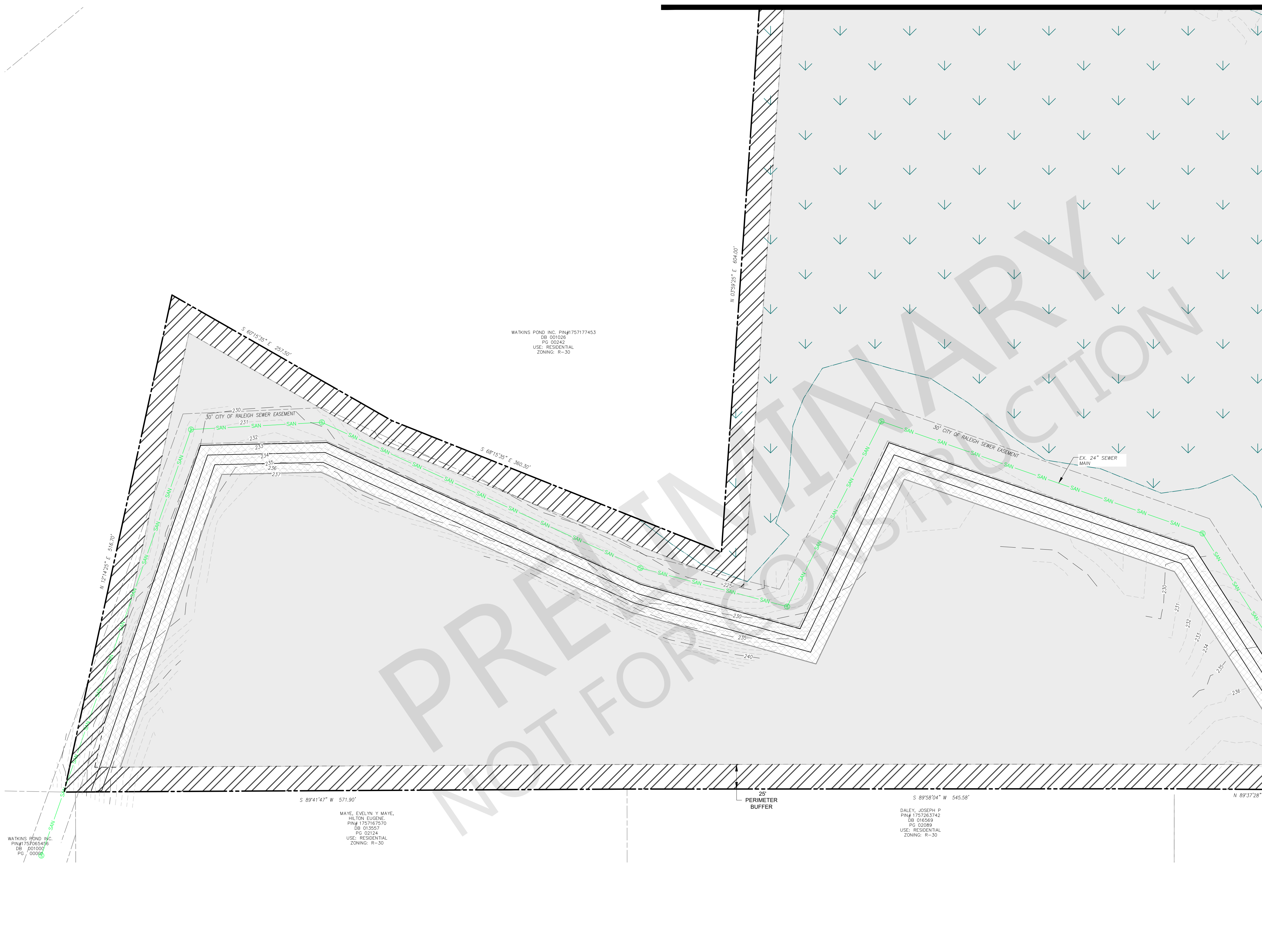
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Sheet #: **13**



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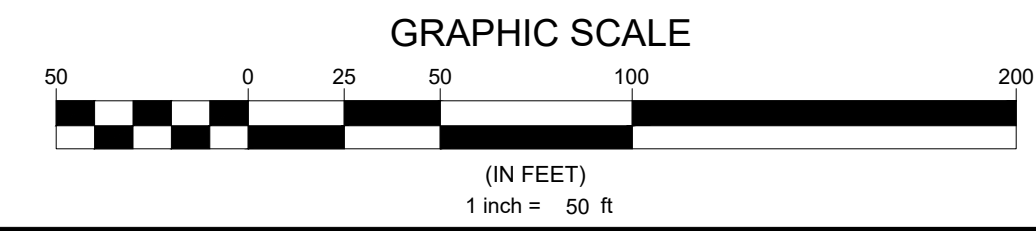
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MAYE, EVELYN Y MAYE,
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DALEY, JOSEPH P
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USE: RESIDENTIAL
ZONING: R-30

GRDING PLAN LEGEND

EXISTING MAJOR CONTOUR	---
EXISTING MINOR CONTOUR	- - -
PROPOSED MINOR CONTOUR	---
PROPOSED MAJOR CONTOUR	---
PROPOSED R.O.W.	---
PROPOSED LOT LINE	---
EXISTING SEWER LINE	— SAN — SAN —
EXISTING SEWER MANHOLE	⊙
PROPOSED SEWER LINE	— S — >
PROPOSED SEWER MANHOLE	⊙
EXISTING WATER LINE	— W — W —
PROPOSED WATERLINE	— W — W —
PROPOSED GATE VALVE	⊕
EXISTING EASEMENT	---
PROPOSED EASEMENT	---
PROPOSED STORM WATER INLET	⊥
PROPOSED STOR PIPE	---



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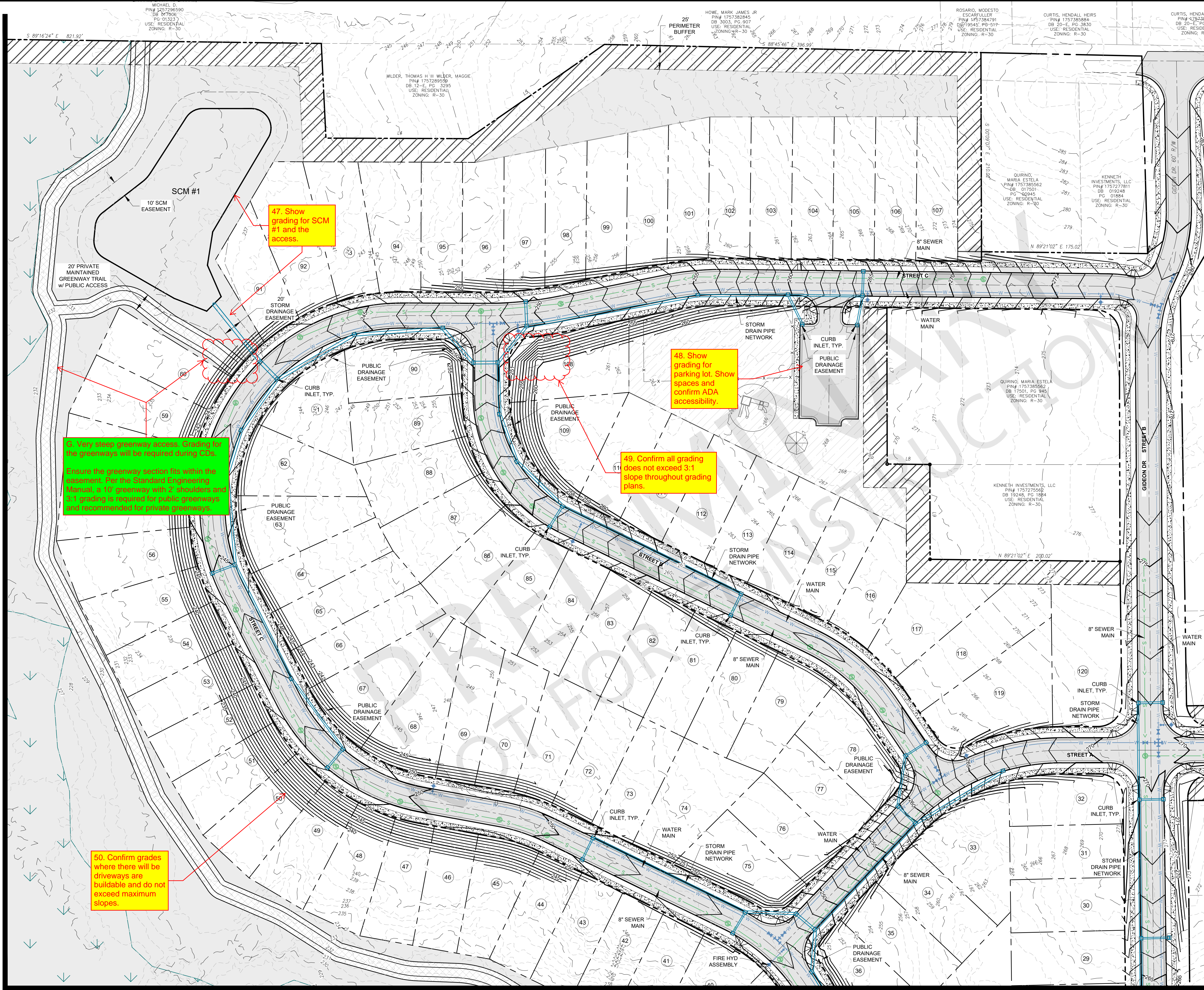
Sheet Title: **GRADING & DRAINAGE PLAN SHEET 2 OF 6**

Sheet #: **14**

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MATCHLINE SEE SHEET 13

MATCHLINE SEE SHEET 17



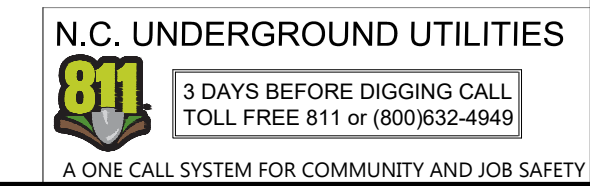
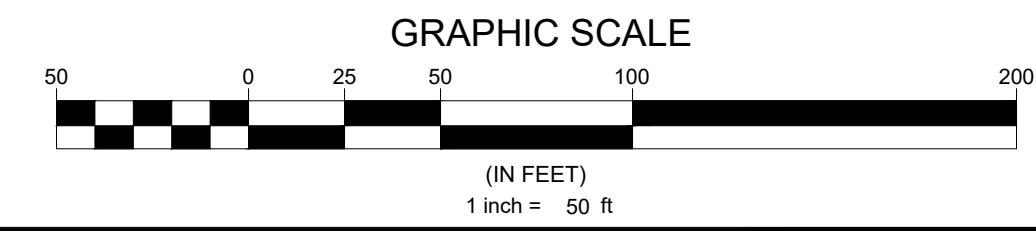
49. Confirm all grading does not exceed 3:1 slope throughout grading plans.

47. Show grading for SCM #1 and the access.

48. Show grading for parking lot. Show spaces and confirm ADA accessibility.

50. Confirm grades where there will be driveways are buildable and do not exceed maximum slopes.

MATCHLINE SEE SHEET 16



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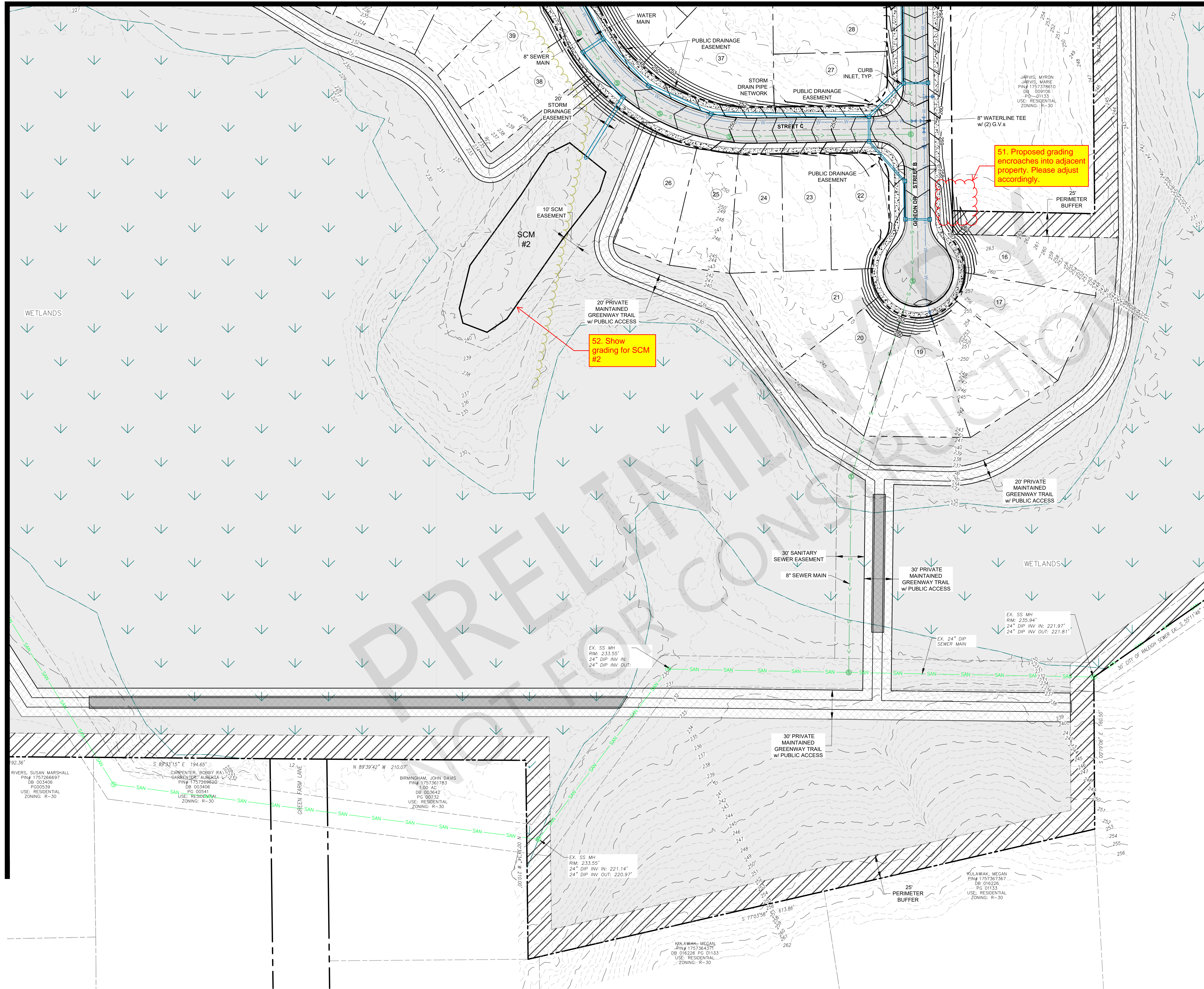
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MATCHLINE SEE SHEET 15

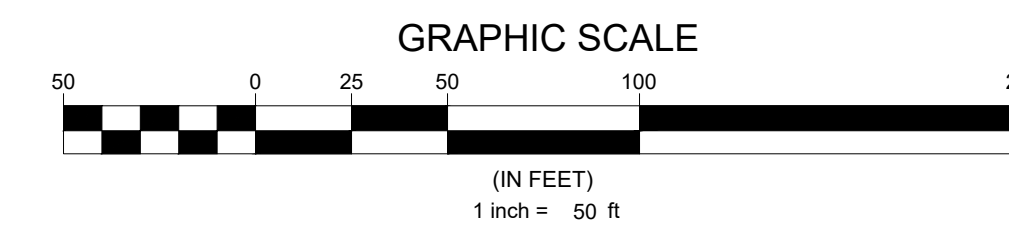
MATCHLINE SEE SHEET 14

MATCHLINE SEE SHEET 18



GRDING PLAN LEGEND

EXISTING MAJOR CONTOUR	---
EXISTING MINOR CONTOUR	- - - - -
PROPOSED MINOR CONTOUR	---
PROPOSED MAJOR CONTOUR	---
PROPOSED R.O.W.	---
PROPOSED LOT LINE	---
EXISTING SEWER LINE	SAN SAN
EXISTING SEWER MANHOLE	⊙
PROPOSED SEWER LINE	---
PROPOSED SEWER MANHOLE	⊙
EXISTING WATER LINE	W W W
PROPOSED WATERLINE	W W W
PROPOSED GATE VALVE	⊕
EXISTING EASEMENT	---
PROPOSED EASEMENT	---
PROPOSED STORM WATER INLET	⊕
PROPOSED STOR PIPE	---



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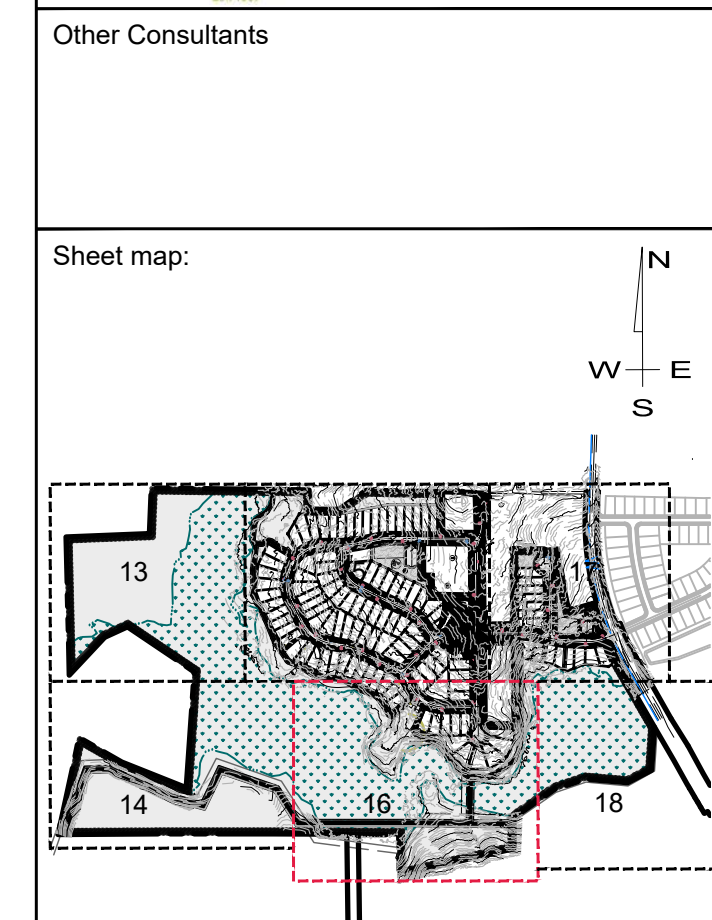
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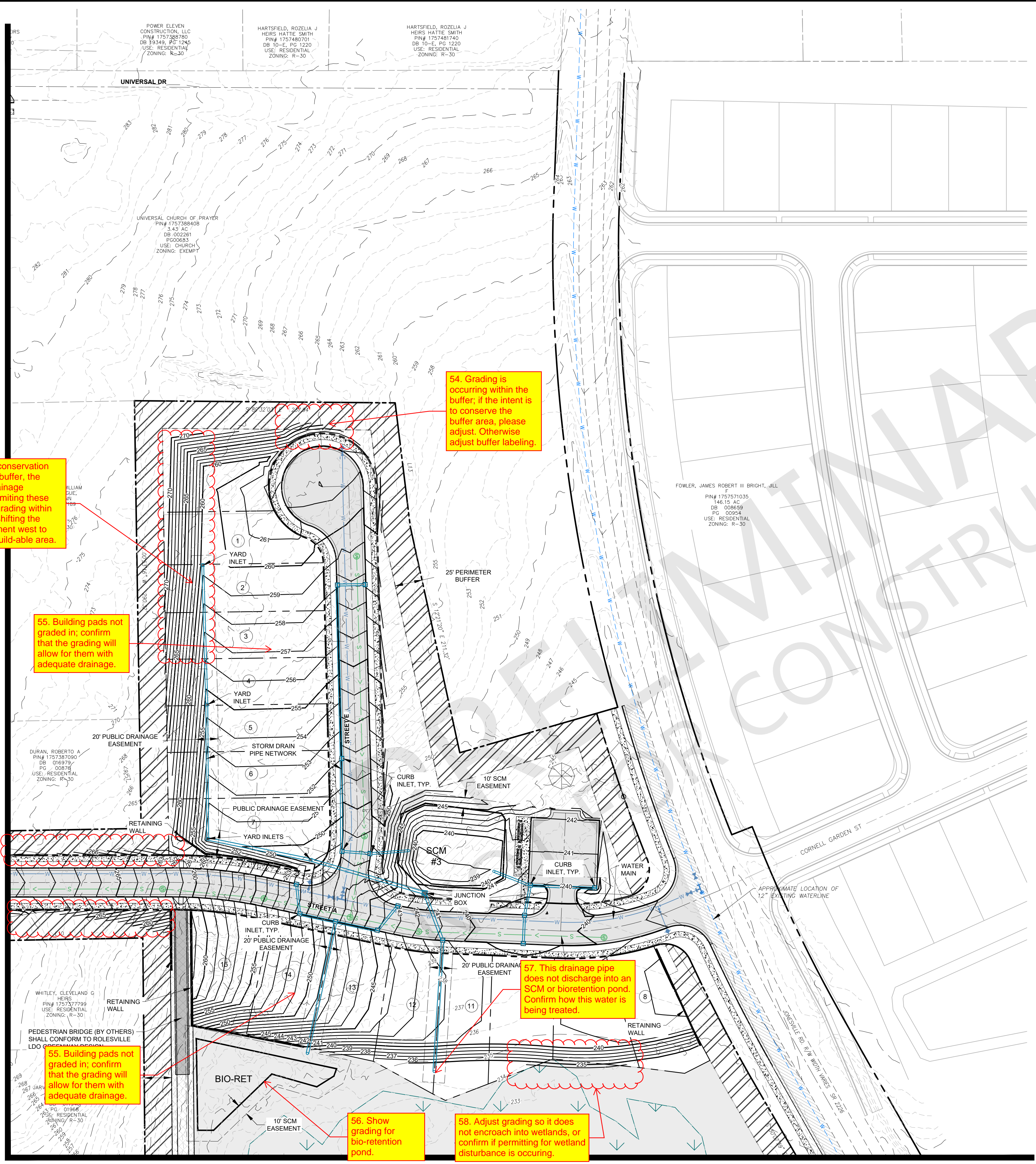
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Sheet Title: **GRADING & DRAINAGE PLAN SHEET 4 OF 6**



53. Due to the conservation efforts with the buffer, the grading and drainage easement are limiting these lots. Consider grading within the buffer and shifting the drainage easement west to maximize the build-able area.

55. Building pads not graded in; confirm that the grading will allow for them with adequate drainage.

54. Grading is occurring within the buffer; if the intent is to conserve the buffer area, please adjust. Otherwise adjust buffer labeling.

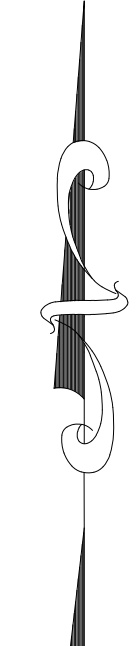
57. This drainage pipe does not discharge into an SCM or bioretention pond. Confirm how this water is being treated.

56. Show grading for bio-retention pond.

58. Adjust grading so it does not encroach into wetlands, or confirm if permitting for wetland disturbance is occurring.

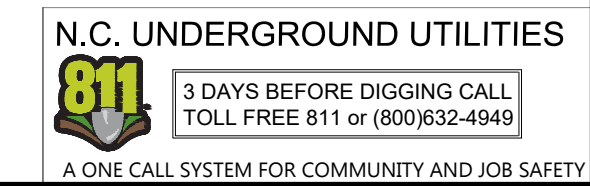
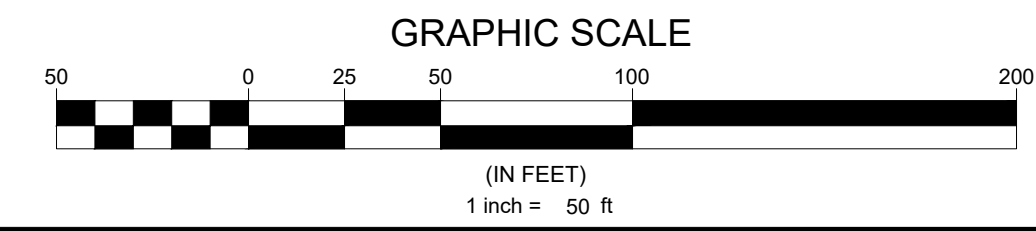
MATCHLINE SEE SHEET

MATCHLINE SEE SHEET 18



GRDING PLAN LEGEND

EXISTING MAJOR CONTOUR	---
EXISTING MINOR CONTOUR	- - -
PROPOSED MINOR CONTOUR	---
PROPOSED MAJOR CONTOUR	- - -
PROPOSED R.O.W.	---
PROPOSED LOT LINE	---
EXISTING SEWER LINE	--- SAN --- SAN
EXISTING SEWER MANHOLE	⊙
PROPOSED SEWER LINE	---
PROPOSED SEWER MANHOLE	⊙
EXISTING WATER LINE	--- W --- W
PROPOSED WATERLINE	---
PROPOSED GATE VALVE	⊕
EXISTING EASEMENT	---
PROPOSED EASEMENT	---
PROPOSED STORM WATER INLET	⊕
PROPOSED STOR PIPE	---



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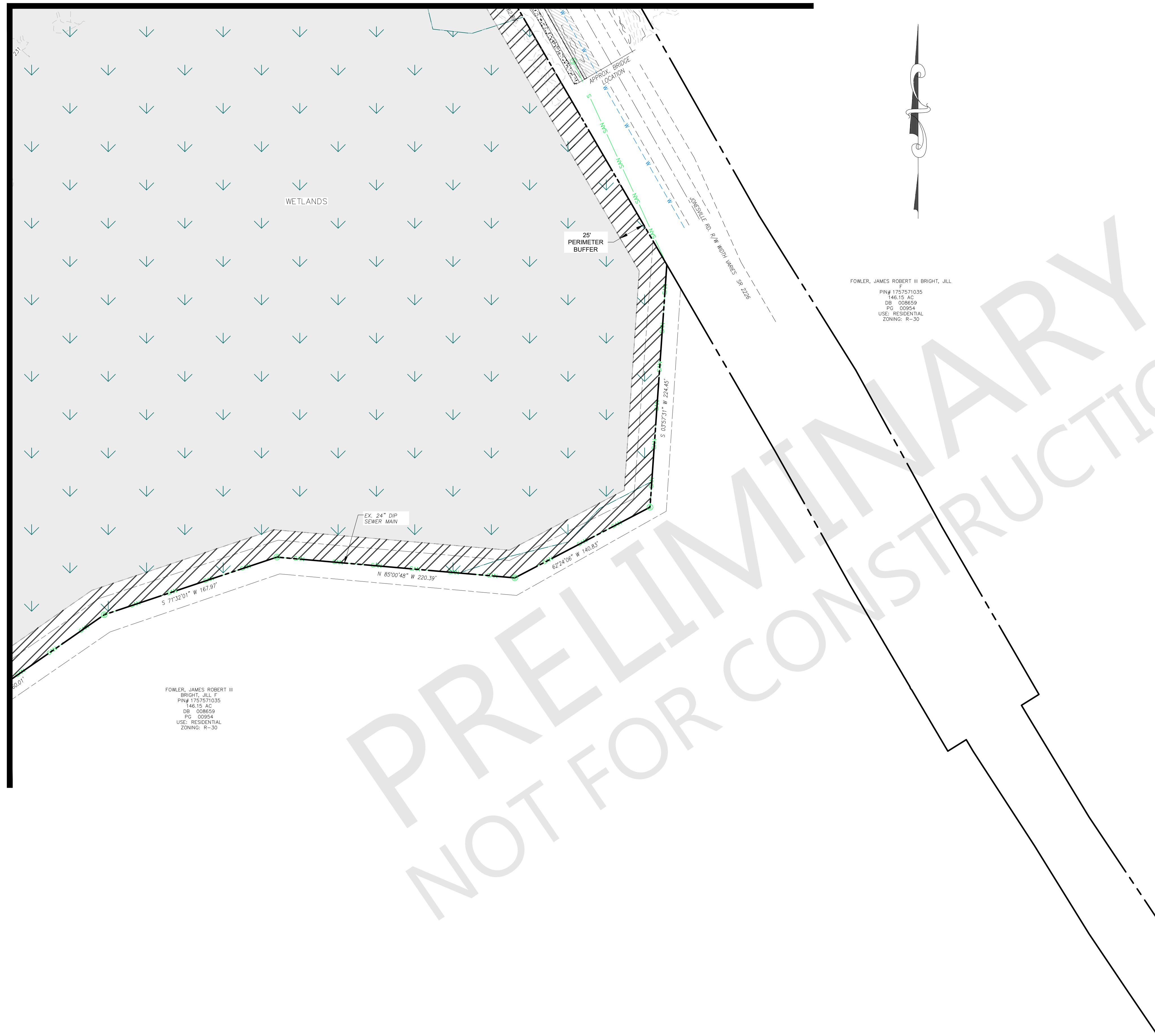
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Sheet #:
17

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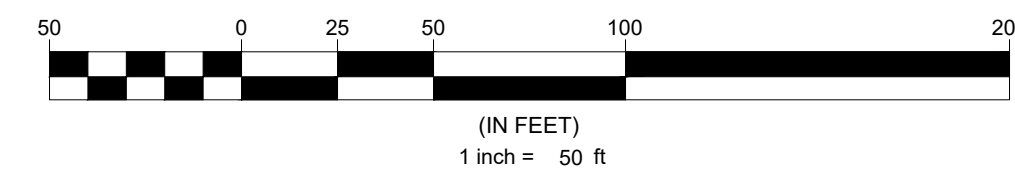
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 USE: RESIDENTIAL
 ZONING: R-30

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 DB 008659
 PG 00054
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 ZONING: R-30

GRDING PLAN LEGEND

EXISTING MAJOR CONTOUR	---
EXISTING MINOR CONTOUR	- - - -
PROPOSED MINOR CONTOUR	---
PROPOSED MAJOR CONTOUR	---
PROPOSED R.O.W.	---
PROPOSED LOT LINE	---
EXISTING SEWER LINE	--- SAN --- SAN
EXISTING SEWER MANHOLE	⊙
PROPOSED SEWER LINE	--- S --->
PROPOSED SEWER MANHOLE	⊙
EXISTING WATER LINE	--- W --- W
PROPOSED WATERLINE	--- W --- W
PROPOSED GATE VALVE	⊚
EXISTING EASEMENT	---
PROPOSED EASEMENT	---
PROPOSED STORM WATER INLET	⊚
PROPOSED STOR PIPE	---

GRAPHIC SCALE



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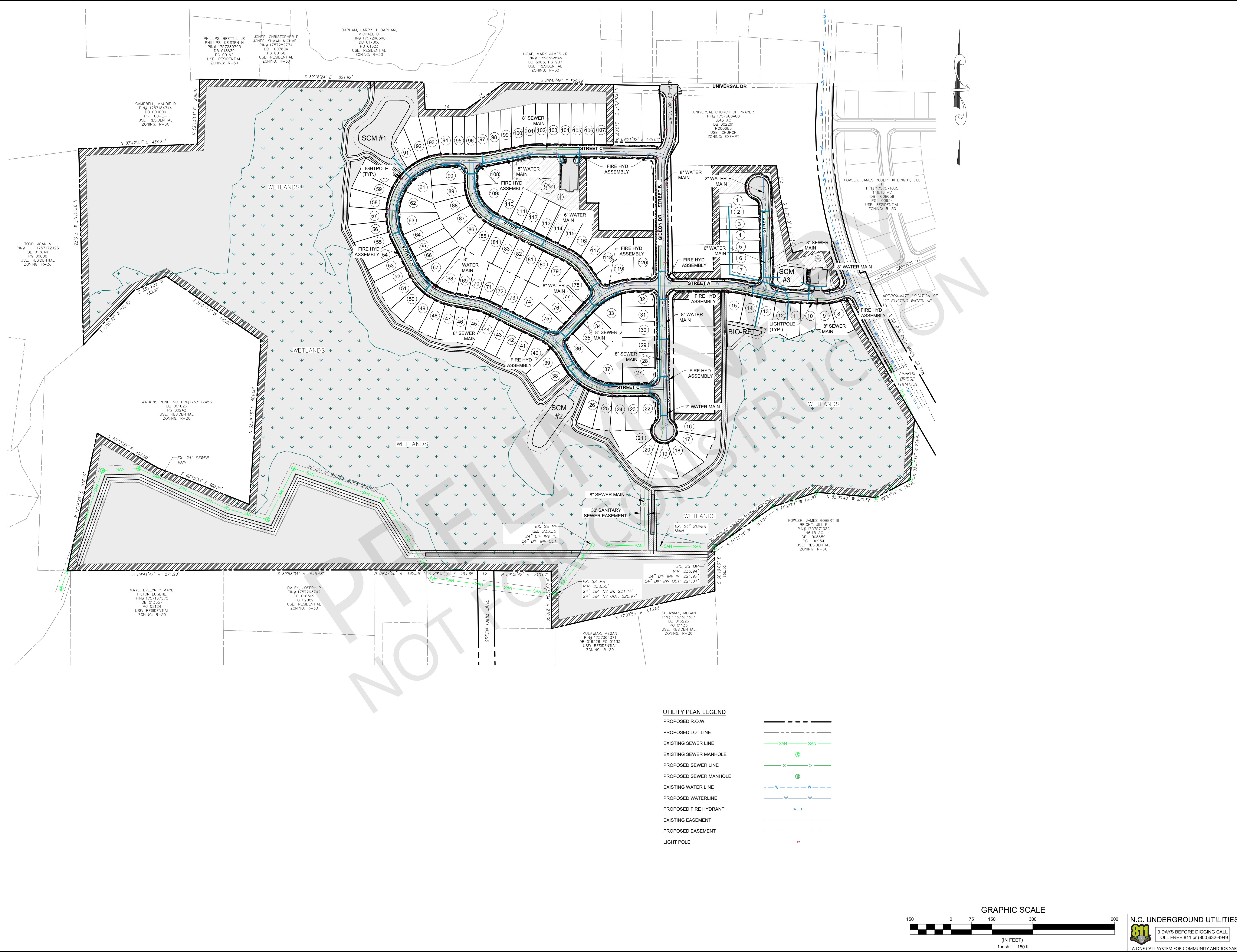
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Sheet Title:
**GRADING &
 DRAINAGE
 PLAN SHEET
 6 OF 6**

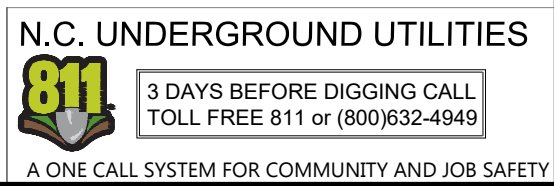
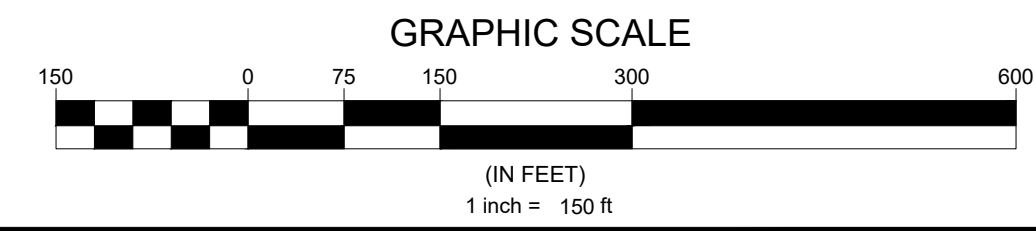
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UTILITY PLAN LEGEND

PROPOSED R.O.W.	-----
PROPOSED LOT LINE	-----
EXISTING SEWER LINE	---SAN---SAN---
EXISTING SEWER MANHOLE	⊙
PROPOSED SEWER LINE	---S--->---
PROPOSED SEWER MANHOLE	⊙
EXISTING WATER LINE	---W---W---
PROPOSED WATER LINE	---W---W---
PROPOSED FIRE HYDRANT	⊕
EXISTING EASEMENT	-----
PROPOSED EASEMENT	-----
LIGHT POLE	+



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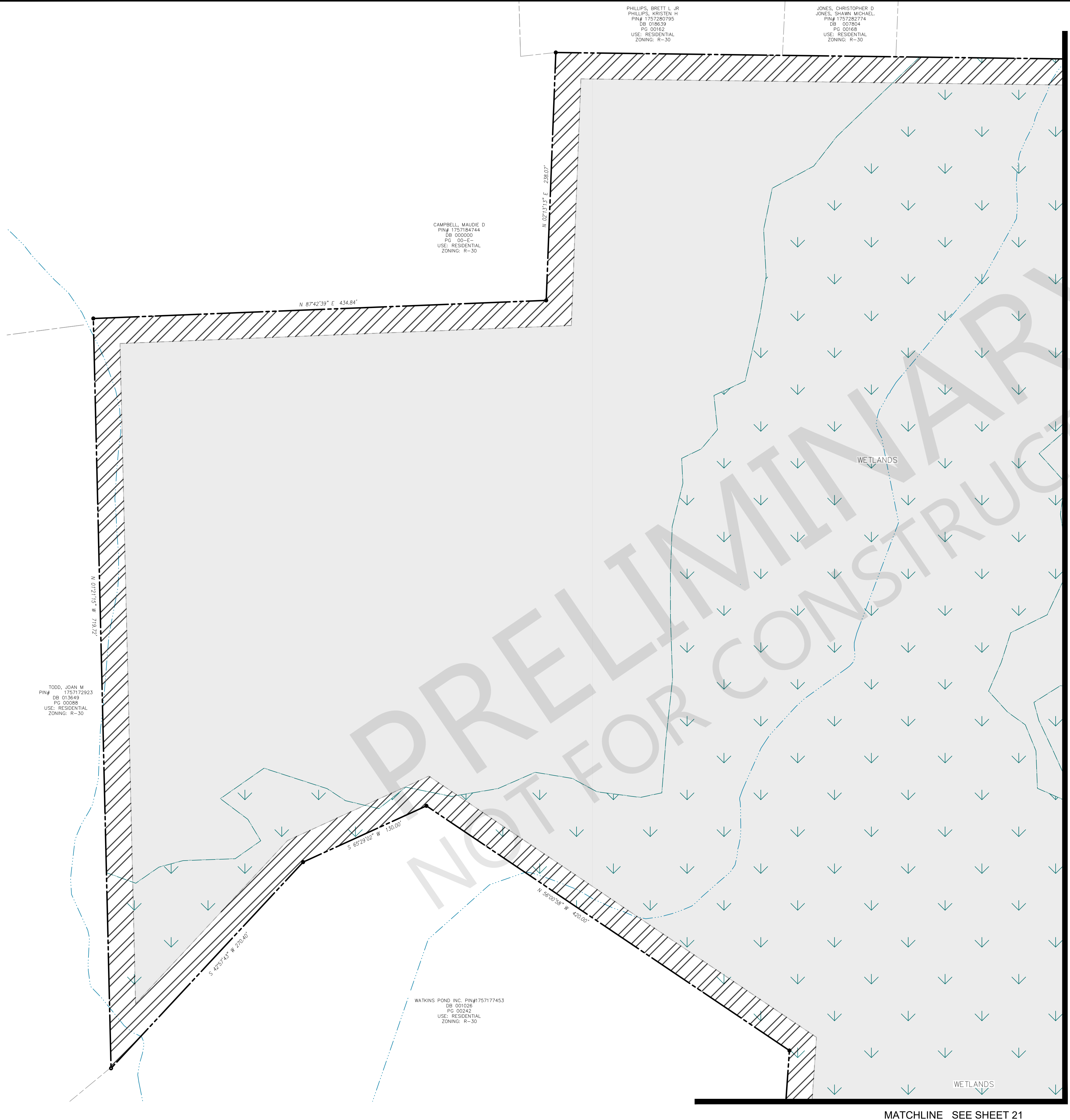
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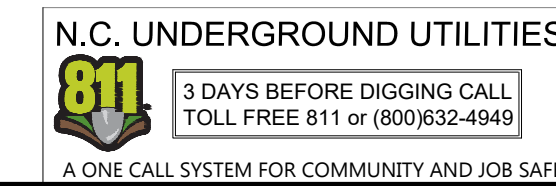
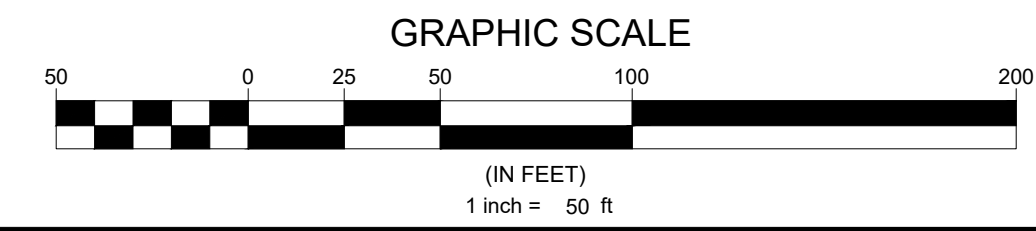
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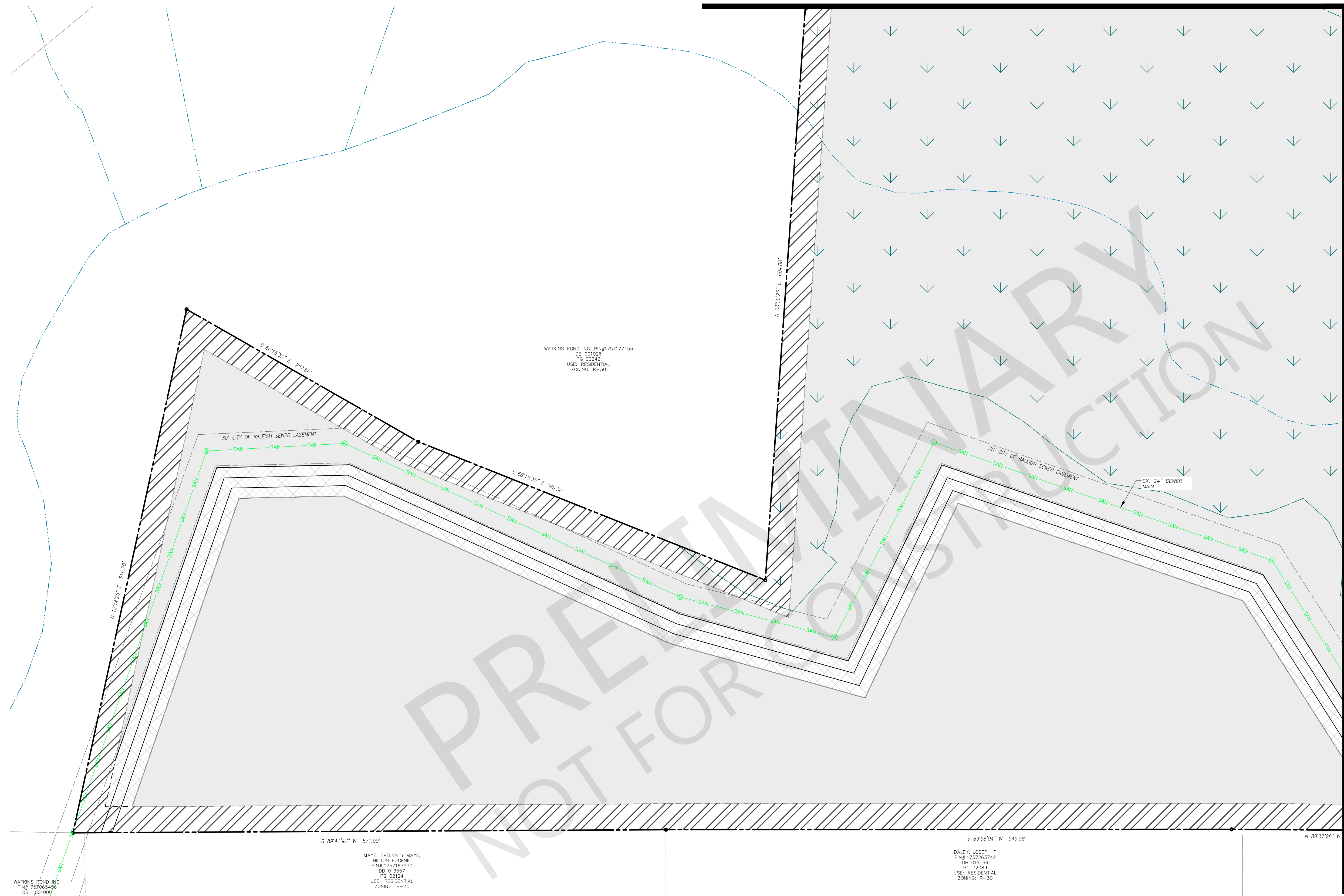
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UTILITY PLAN SHEET 1 OF 6

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20

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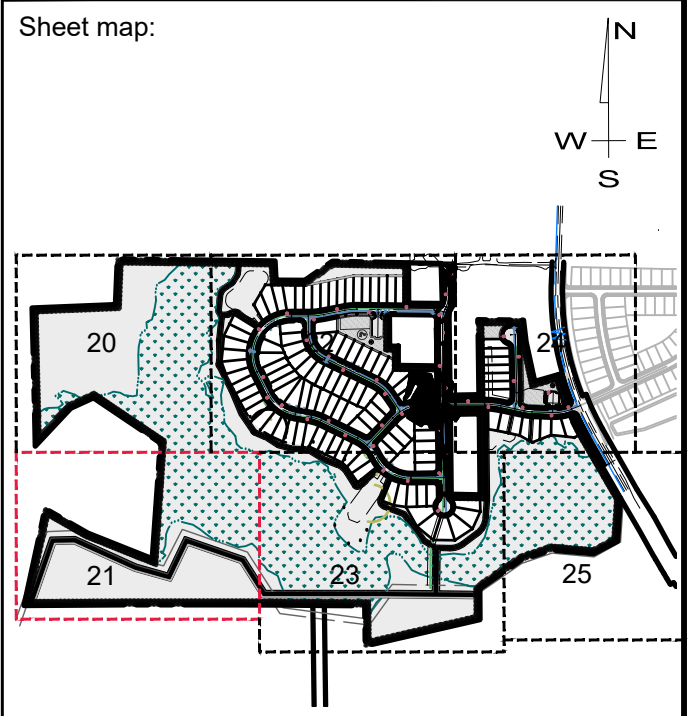
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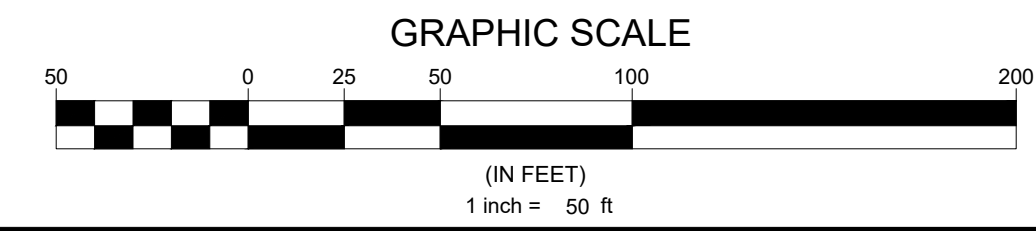
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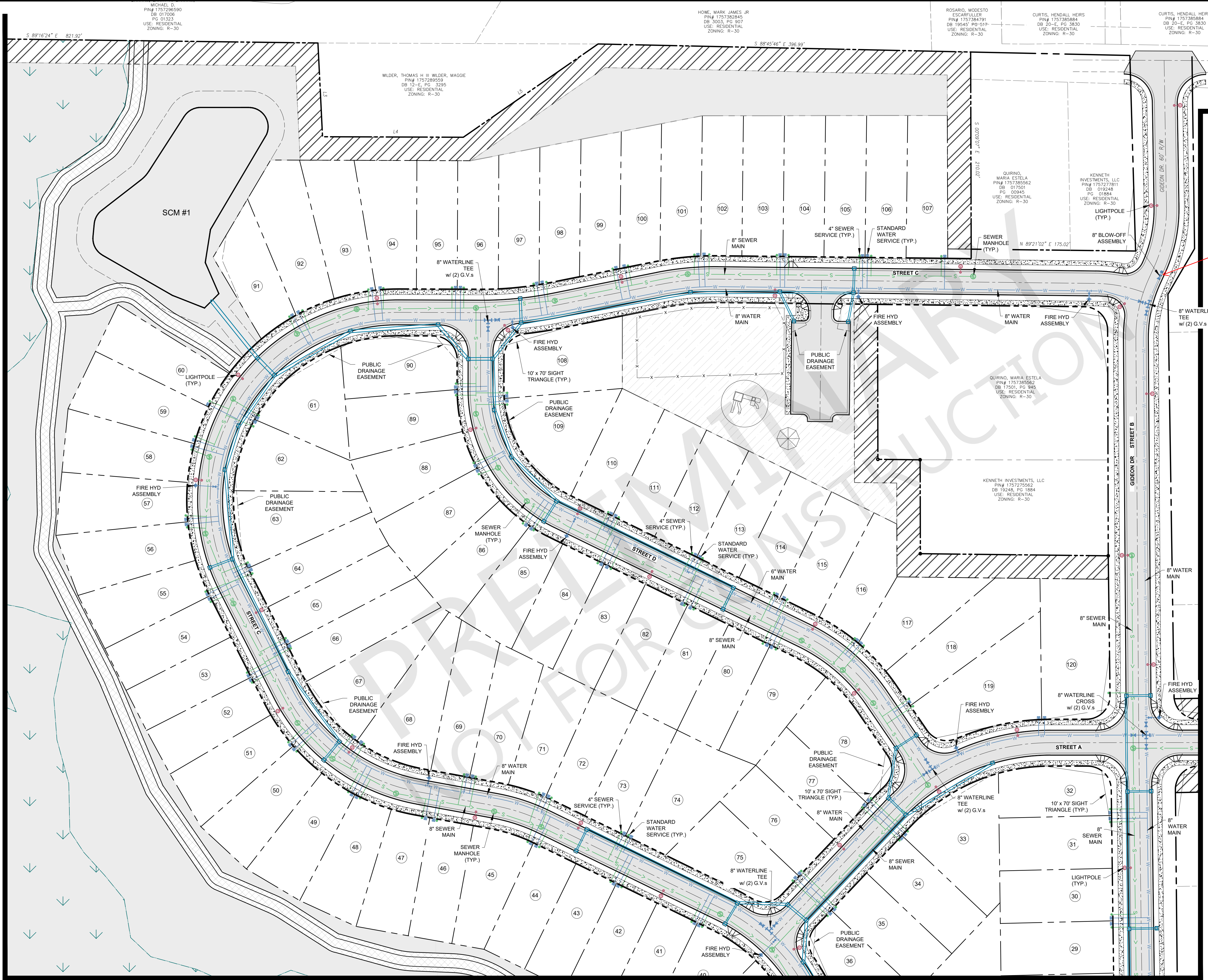
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59. Consider extending water to the intersection of Gideon Dr. and Universal Dr. for future water connections and possible improvements of Universal Dr.

By ending this here, any future improvements would require Gideon Dr to be torn up and redone.

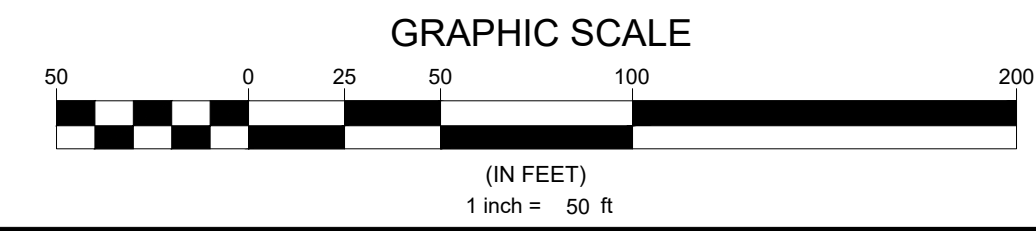
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MATCHLINE SEE SHEET 20

MATCHLINE SEE SHEET 23

UTILITY PLAN LEGEND

PROPOSED R.O.W.	---
PROPOSED LOT LINE	---
EXISTING SEWER LINE	---
EXISTING SEWER MANHOLE	⊙
PROPOSED SEWER LINE	---
PROPOSED SEWER MANHOLE	⊙
PROPOSED SEWER CLEANOUT	---
EXISTING WATER LINE	---
PROPOSED WATER LINE	---
PROPOSED WATER SERVICE	---
PROPOSED GATE VALVE	⊙
PROPOSED FIRE HYDRANT	⊙
EXISTING EASEMENT	---
PROPOSED EASEMENT	---
LIGHT POLE	⊙



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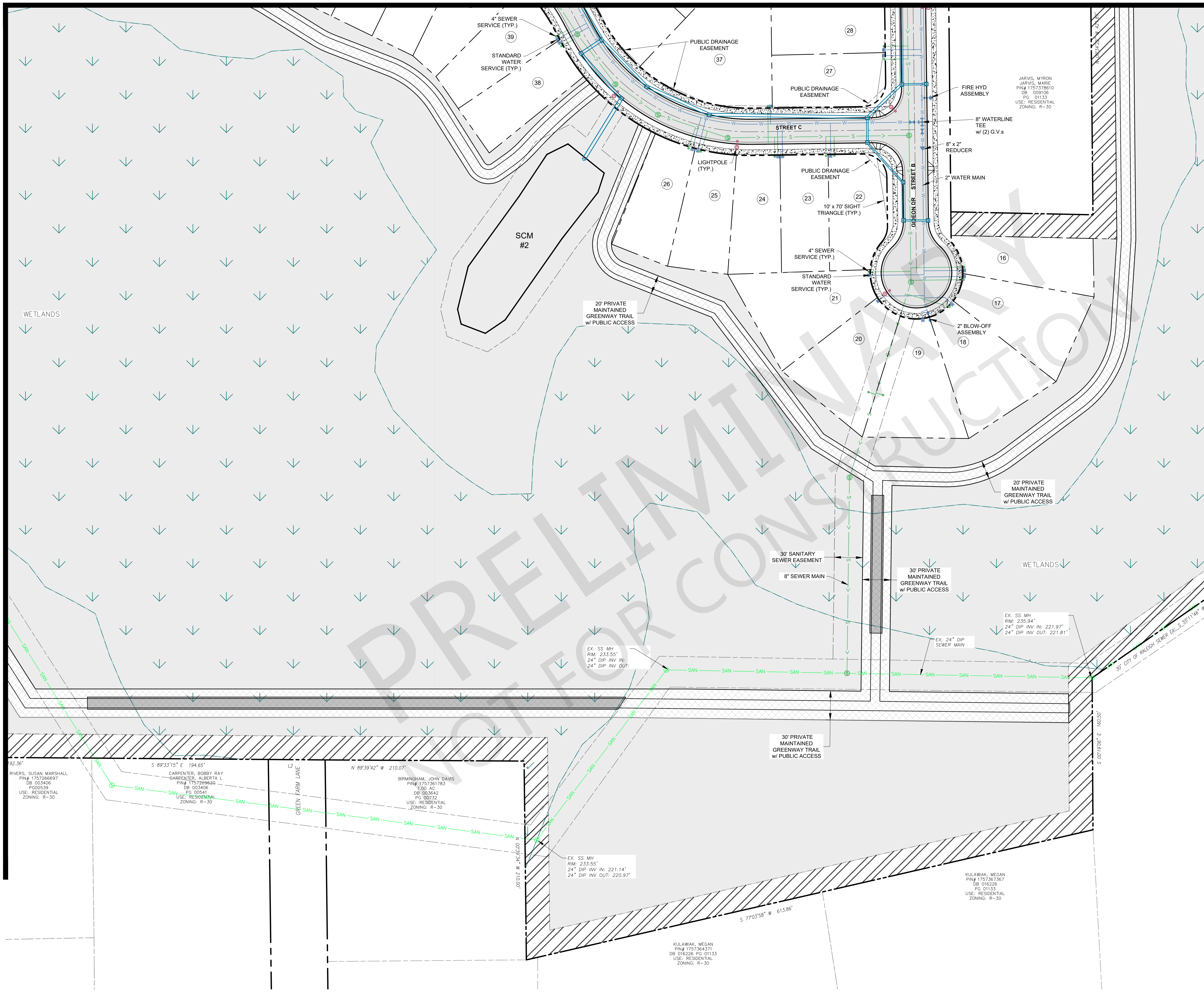
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UTILITY PLAN SHEET 3 OF 6

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22

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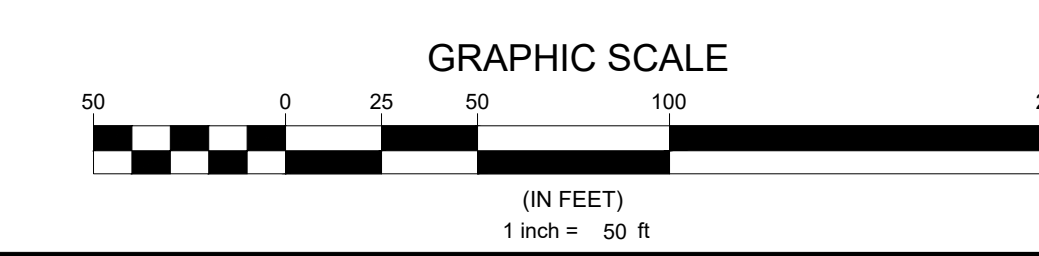
MATCHLINE SEE SHEET 21

MATCHLINE SEE SHEET 25



UTILITY PLAN LEGEND

PROPOSED R.O.W.	---
PROPOSED LOT LINE	---
EXISTING SEWER LINE	— SAN — SAN —
EXISTING SEWER MANHOLE	⊙
PROPOSED SEWER LINE	— S —
PROPOSED SEWER MANHOLE	⊙
PROPOSED SEWER CLEANOUT	— S —
EXISTING WATER LINE	— W — W — W —
PROPOSED WATER LINE	— W — W — W —
PROPOSED WATER SERVICE	— W —
PROPOSED GATE VALVE	⊕
PROPOSED FIRE HYDRANT	⊕
EXISTING EASEMENT	---
PROPOSED EASEMENT	---
LIGHT POLE	⊙



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Sheet map:

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HARRIS CREEK FARMS
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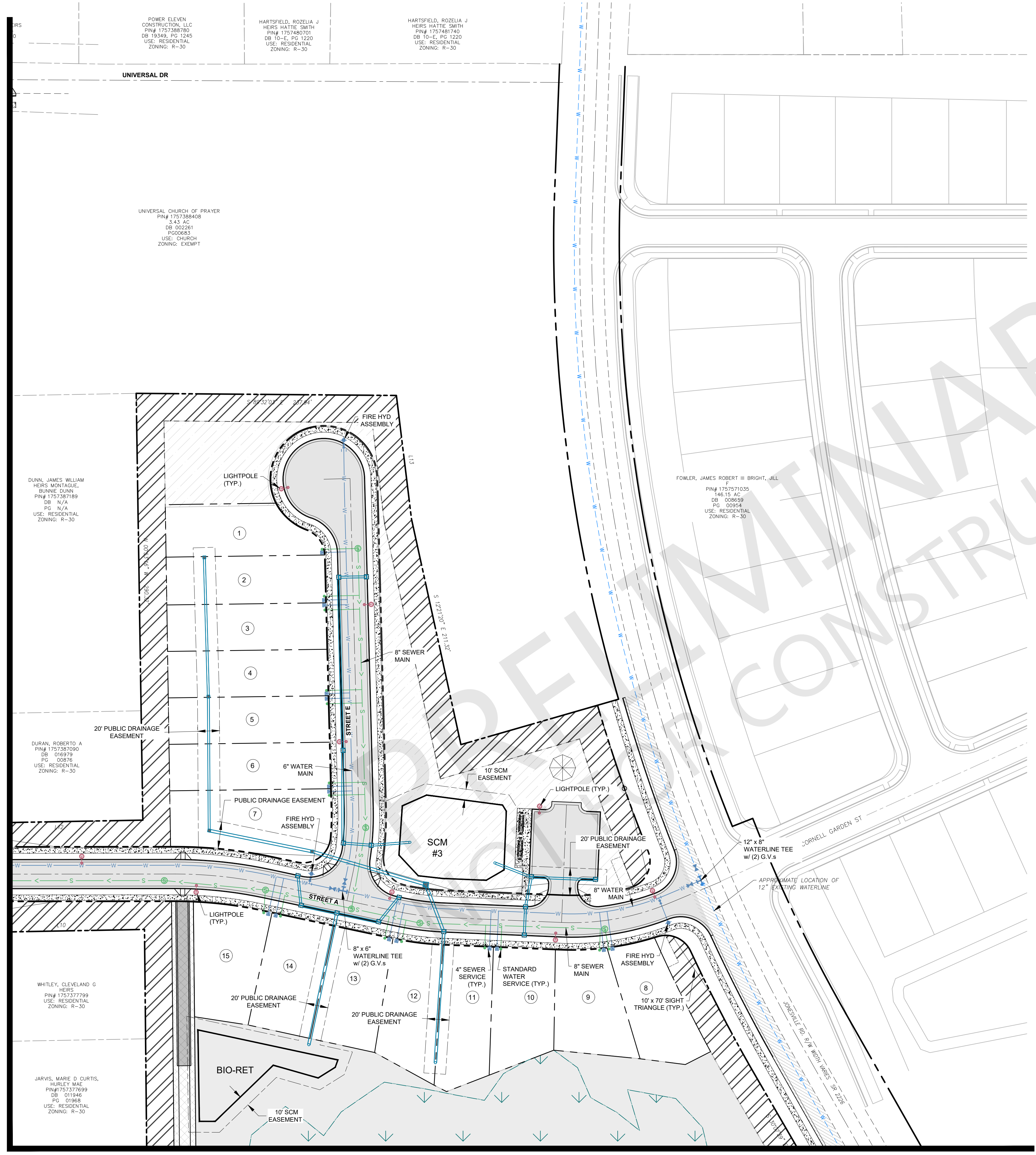
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UTILITY PLAN SHEET 4 OF 6

Sheet#:
23

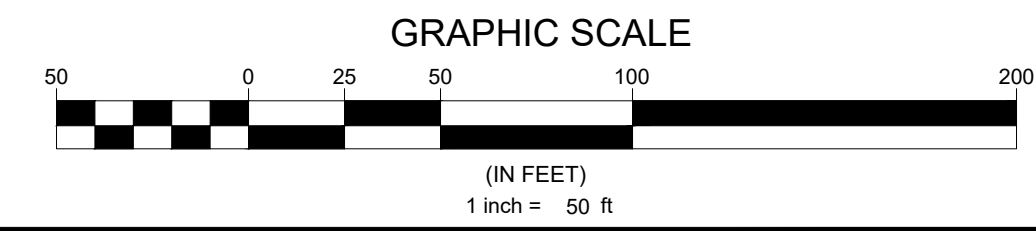
MATCHLINE SEE SHEET 22



MATCHLINE SEE SHEET 25

UTILITY PLAN LEGEND

- PROPOSED R.O.W.
- EXISTING LOT LINE
- EXISTING SEWER LINE SAN SAN
- EXISTING SEWER MANHOLE
- PROPOSED SEWER LINE S S
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT S
- EXISTING WATER LINE W W
- PROPOSED WATER LINE W W
- PROPOSED WATER SERVICE W
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- EXISTING EASEMENT
- PROPOSED EASEMENT
- LIGHT POLE



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Apex, NC 27539
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Jurisdiction / Municipality
Rolesville
Town of Rolesville
502 Southtown Cir
Rolesville, NC 27571
Phone: 919-554-6517
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Other Consultants

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Sheet Title:
UTILITY PLAN SHEET 5 OF 6

Sheet #:
24

Atlas Lighting Products

AREA LIGHTING
POLES
SQUARE STRAIGHT STEEL POLES

CATALOG NUMBER: _____
JOB NAME: _____
CUSTOMER NAME: _____
NOTES: _____
TYPE: _____
DATE: _____

FEATURES AND SPECIFICATIONS

POLE TIP DETAILS
TENON, CONTINUOUS WELD, SQUARE POLE WIREWAY, CONTINUOUS WELD, POLE SHAFT, POLE TOP CAP W/ SPRING RETAINER, POLE MAY BE DRILLED TO ACCEPT SIDE MOUNTED FIXTURE IF REQUIRED.

POLE BASE DETAILS
THICKNESS, BOLT CIRCLE, SQUARE, SLOTTED BOLT HOLES, REINFORCED HANDHOLE W/ COVER AND GROUNDING, 4-ANCHOR BOLTS WITH THREADED END GALVANIZED 1/2" MIN. EACH BOLT FURNISHED WITH 2 HEX NUTS AND 2 FLAT WASHERS, 1'-6" MOUNTING HEIGHT.

ORDERING INFORMATION

Nominal Mounting Height (ft)	Catalog Number	Shaft			Pole Base				Maximum Loading				
		Base O.D. (in)	Wall Thk. (ga)	Gross Weight (lbs)	Bolt Circle Range*	Plate Thk. (in)	Plate Thk. (in)	EPA (ft²)	EPA (ft²)	EPA (ft²)	EPA (ft²)		
12	SSS12411BZ	4.00	11	90	8 to 11	8.0	0.75	23.0	18.2	14.6	11.7		
14	SSS14411BZ	4.00	11	105	8 to 11	8.0	0.75	18.7	14.5	11.5	9.1		
16	SSS16411BZ	4.00	11	120	8 to 11	8.0	0.75	15.1	11.5	8.9	6.9		
18	SSS18411BZ	4.00	11	135	8 to 11	8.0	0.75	12.2	9.1	6.8	5.1		
20	SSS20411BZ	4.00	11	150	8 to 11	8.0	0.75	9.5	6.9	4.9	3.4		
20	SSS20507BZ	5.00	7	250	9 to 11	11.0	1.00	30.5	23.7	18.6	14.7		
20	SSS20511BZ	5.00	11	180	9 to 11	11.0	0.75	20.0	14.9	11.5	8.8		

*Consult Factory for Specific Bolt Circle Measurements.

Actual performance can vary depending on operating conditions. Specifications are subject to change without notice.

ATLAS LIGHTING PRODUCTS, INC.
PO BOX 2348 | BURLINGTON, NC 27216
800-849-8485 | FAX: 336-227-0110 | www.atlaslightingproducts.com

Atlas Lighting Products

AREA LIGHTING
POLES
SQUARE STRAIGHT STEEL POLES

ORDERING INFORMATION CONTINUED

Nominal Mounting Height (ft)	Catalog Number	Shaft			Pole Base				Maximum Loading				
		Base O.D. (in)	Wall Thk. (ga)	Gross Weight (lbs)	Bolt Circle Range*	Plate Thk. (in)	Plate Thk. (in)	EPA (ft²)	EPA (ft²)	EPA (ft²)	EPA (ft²)		
25	SSS25411BZ	4.00	11	188	8 to 11	8.0	0.75	9.3	6.4	4.3	2.6		
25	SSS25407BZ	4.00	7	250	8 to 11	8.0	0.75	11.2	8.0	5.5	3.7		
25	SSS25511BZ	5.00	11	225	9 to 11	11.0	1.00	34.0	26.2	20.0	15.9		
30	SSS30407BZ	4.00	7	300	8 to 11	8.25	0.75	6.5	3.7	1.8	0.3		
30	SSS30507BZ	5.00	7	375	9 to 11	11.0	1.00	24.1	17.5	13.0	9.4		
30	SSS30607BZ	6.00	7	462	12	12.5	1.00	34.3	25.8	19.4	14.6		
35	SSS35607BZ	6.00	7	539	12	12.5	1.00	24.8	17.7	12.2	8.4		

*Consult Factory for Specific Bolt Circle Measurements.

ORDERING INFORMATION

S SHAPE (S = Square, R = Round)
STRUCTURE (S = Steel, A = Aluminum, C = Concrete, F = Fiberglass)
DIAMETER/WIDTH (4 = 4 in, 4K = 4000K, *Other sizes available)
TENON DETAIL (T = Welded, Blank = None)
COLOR (BZ = Bronze, W = White, S = Anodized, Silver, B = Black)
SHAFT (S = Straight, T = Tapered)
HEIGHT (18 = 18 ft, 20 = 20 ft, 25 = 25 ft, 30 = 30 ft, *Other sizes available)
GAUGE (11 = 11 in, 07 = 07 in)
BASE DETAIL (E = Embedded, Blank = Anchor)
DRILL PATTERN (1 = 1, 2 = 2 @ 90°, 3 = 2 @ 180°, 4 = 3 @ 90°, 5 = 4 @ 90°, 6 = Drop Mount)

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Atlas Lighting Products

500-SPTABZ
Square Pole Tenon Adapter - Up to 4 @ 90°

Project Information
Job Name: _____
Type: Square Pole Tenon Adapter - Up to 4 @ 90°
Catalog Number: 500-SPTABZ
Approved by: _____

SPECIFICATIONS:
Construction: Die Cast Aluminum
Removable Top Bracket Cover Included
Bracket is Pre-drilled for Mounting up to (4) Fixtures
Weight: 4.19 lbs. / 1.9 kg.
Overall Height: 10.25" (26.035 cm)
Overall Width: 4" (10.16 cm)
Overall Depth: 4" (10.16 cm)

ORDERING INFORMATION:

CATALOG # 500-SPTABZ
DESCRIPTION For Square Poles w/ Tenon
FINISH Bronze

DIMENSIONS:

FIXTURE CONFIGURATIONS:

single, 2 @ 90°, 2 @ 180°, 3 @ 90°, 4 @ 90°

Actual performance can vary depending on operating conditions. Specifications are subject to change without notice.

ATLAS LIGHTING PRODUCTS, INC.
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800-849-8485 | FAX: 336-227-0110 | www.atlasled.com

Made in the USA of US and imported parts. Meets Buy American requirements within the ARRA.

Atlas Lighting Products

Eagle Series
2nd Generation LED Site Lighter

Product Series: SLPM (2nd Generation Site Lighter Pro)
Fixture Type: Eagle Series
Catalog Number: SLPM
Approved by: _____

SPECIFICATIONS:

Construction: Designed for commercial and industrial applications, providing cooler operating temperatures, brighter light and longer LED life. The die cast aluminum housing utilizes external airflow fins for greater heat dissipation. The easy access driver compartment is a thermally independent compartment, separate from LED generated heat, for cooler operation and longer driver life.

Optics: Atlas Site Lighter Pro fixtures utilize precision engineered individual lenses for maximum light intensity. The lens is made of optical grade polycarbonate. Advanced one piece optic board engineered for maximum light intensity. Types II, III, V and Forward Throw distributions are available. Types II, III and Forward Throw optics are rotatable allowing for optimal placement of the fixtures on the perimeter of any layout.

Mounting: The easy mount bracket makes installation on any style pole quick and easy. Tenon and other mounting accessories also available. For round poles 500-SLPMRPA is required.

Thermal Management: Atlas Site Lighter Pro fixtures are designed as a complete system to optimize LED life and light output. The thermal stacking heat removal technology extracts heat from within the housing moving it away from LEDs and components. The lower temperatures result in long LED life (200,000+ hrs) and component life and also allows for higher light output.

Listings: Luminaire is certified to UL/cUL Standards for Wet Locations. The following qualify for DesignLights Consortium Premium: SLPM6L (All colors/options), SLPM9L (All colors/options), SLPM12L (All colors/options), SLPM18L (All colors/options), SLPM24L (All colors/options), all other luminaires are DesignLights Consortium qualified. All are eligible for rebates from DLC member utilities.

AC Input: 120/208/240/277/347/480 V
Driver: Constant current, 120-277 VAC, 50-60 Hz
High Efficiency - min. 88%
Off-State Power: 0 Watts
0-10 V Dimming

LEDs: Available in 3000K, 4000K, 4500K and 5000K CCT. Epoxy Guard™ protective conformal coated boards.

Reduced Glare: Positioning of the LED modules within the housing result in light directed to desired locations and reduces offensive light.

Testing: Atlas LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 & LM-80.

Warranty: Five-year limited warranty.

*LED Life Span Based Upon LM-80 Test Results.

REBATES AND INCENTIVES ARE AVAILABLE IN MANY AREAS. CONTACT AN ATLAS REPRESENTATIVE FOR MORE INFORMATION.

ATLAS LIGHTING PRODUCTS, INC.
PO BOX 2348 | BURLINGTON, NC 27216
800-849-8485 | FAX: 336-227-0110 | www.atlasled.com

The majority of Atlas Lighting Products are assembled in USA facilities by an American Workforce utilizing both Domestic and Foreign components. Meets Buy American requirements within the ARRA.

Atlas Lighting Products

Eagle Series
2nd Generation LED Site Lighter

ORDERING INFORMATION

SLPM (2nd Generation Site Lighter Pro)
LUMEN PACKAGE (6L = 6,000 Lumens, 9L = 9,000 Lumens, 12L = 12,000 Lumens, 18L = 18,000 Lumens, 24L = 24,000 Lumens, 30L = 30,000 Lumens, 36L = 36,000 Lumens, 43L = 43,000 Lumens)
DISTRIBUTION (T2 = Type 2, T3 = Type 3, FT = Forward Throw, T2L = Type 2 Rotated Left, T3L = Type 3 Rotated Left, FTL = Forward Throw Rotated Left, T2R = Type 2 Rotated Right, T3R = Type 3 Rotated Right, FTR = Forward Throw Rotated Right)
VOLTAGE (Blank = 120-277, 4 = 347/480)
COLOR RENDERING (Blank = 70CRI)
DIMMING (Blank = 0-10Vdc)
FIXTURE COLOR (Blank = Bronze, BK = Black, SL = Silver, WT = White)
OPTIONS (PR = 7 Pin Photocell Receptacle, SP = Surge Protection, IC = Integrated Motion Control, BTM = Bluetooth Microwave Motion Control, includes photocell)

LUMEN PACKAGE	DISTRIBUTION	CRI	3000K CCT		4000K CCT		4500K CCT		5000K CCT		WATTAGE
			DELIVERED LUMENS	EFFICACY (LPW)	DELIVERED LUMENS	EFFICACY (LPW)	DELIVERED LUMENS	EFFICACY (LPW)	DELIVERED LUMENS	EFFICACY (LPW)	
6L	T2	70	5908	153	6067	158	6093	159	6152	160	39
	T3	70	5824	151	5981	155	6006	155	6065	157	
	FT	70	5712	148	5866	152	5891	153	5948	154	
	T5	70	5848	152	6005	156	6031	156	6090	158	
9L	T2	70	9155	159	9401	163	9442	164	9533	166	58
	T3	70	9082	158	9326	162	9366	163	9457	164	
	FT	70	8866	154	9104	158	9144	159	9232	160	
	T5	70	9086	158	9330	162	9370	163	9461	164	
12L	T2	70	12030	160	12354	164	12407	165	12527	167	75
	FT	70	11900	159	12220	163	12272	164	12391	165	
	T3	70	11670	156	11984	160	12035	160	12152	162	
	T5	70	11950	159	12271	164	12324	164	12444	166	
18L	T2	70	17840	155	18320	159	18398	160	18577	162	115
	T3	70	17810	155	18289	159	18367	160	18546	161	
	FT	70	17340	151	17806	155	17883	156	18056	157	
	T5	70	17820	155	18299	159	18378	160	18556	161	
24L	T2	70	23640	148	24276	152	24380	153	24616	154	160
	T3	70	23620	148	24255	152	24359	153	24596	154	
	FT	70	23030	144	23650	148	23751	149	23981	150	
	T5	70	23660	148	24296	152	24401	153	24637	154	
30L	T2	70	29450	140	30242	144	30372	145	30646	146	210
	T3	70	29440	140	30232	144	30361	145	30656	146	
	FT	70	28750	137	29523	141	29650	141	29937	143	
	T5	70	29470	141	30263	144	30392	145	30687	146	
36L	T2	70	35260	133	36208	137	36364	137	36716	139	265
	T3	70	35220	133	36167	137	36322	137	36675	139	
	FT	70	34490	131	35418	134	35570	135	35914	136	
	T5	70	35200	133	36147	137	36302	137	36654	139	
43L	T2	70	42200	121	43335	124	43521	125	43943	126	348
	T3	70	41940	120	43068	124	43253	124	43672	125	
	FT	70	41300	118	42411	122	42593	122	43006	123	
	T5	70	41970	120	43099	124	43284	124	43703	125	

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Other Consultants

Sheet map:
20, 21, 23, 25

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NORTH CAROLINA PROFESSIONAL ENGINEERS
SEAL
53676
BY VAN A. HARRIS

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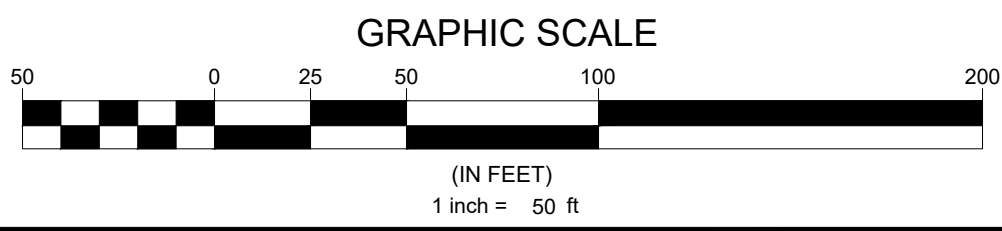
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UTILITY DETAILS

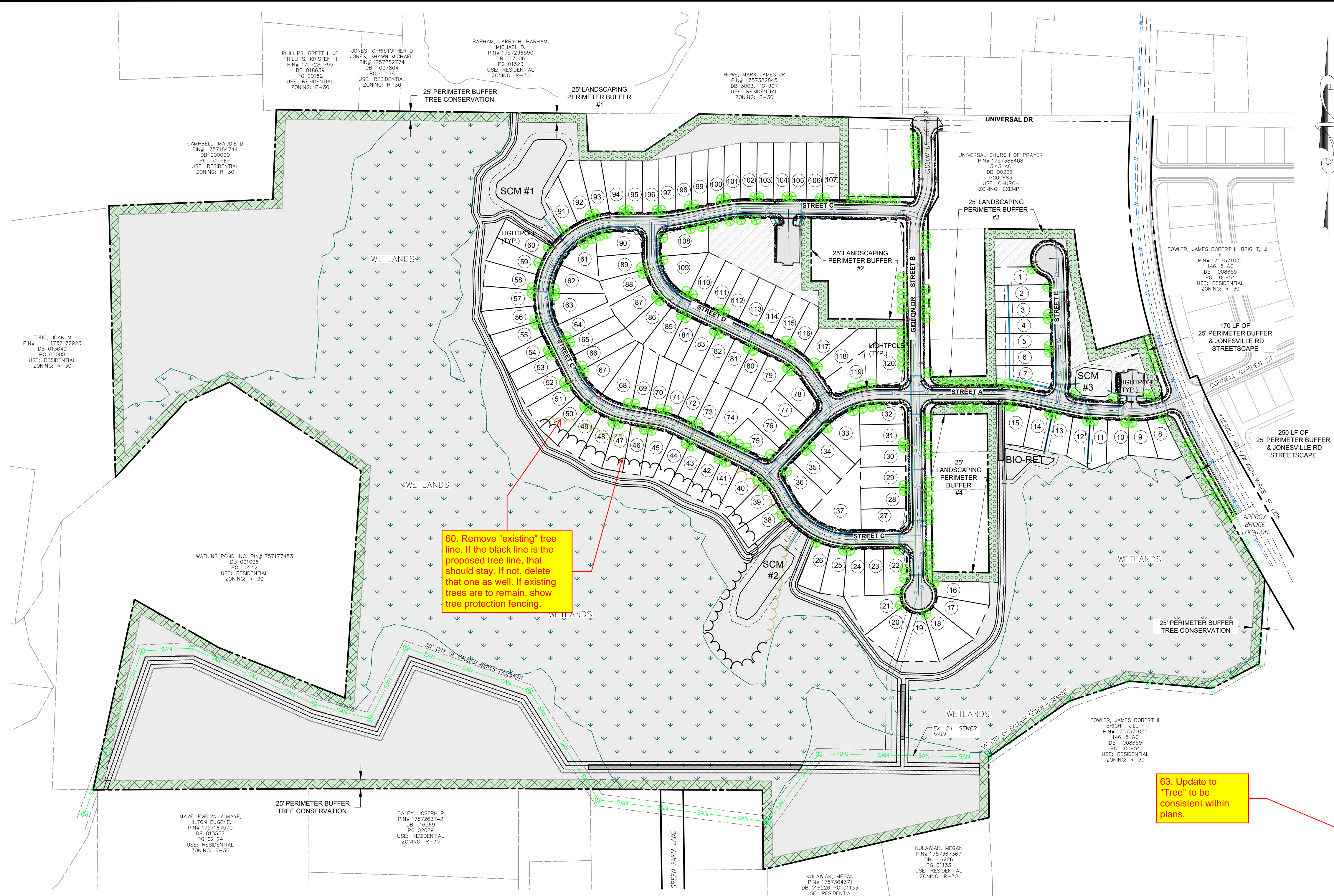
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- LANDSCAPING NOTES:**
- TREES SHALL NOT BE PLANTED BETWEEN THE CURB AND SIDEWALK (A GRASS STRIP IS REQUIRED). STREET TREES MAY BE INSTALLED IN A LINEAR FASHION OR IN CLUSTERS OR GROUPINGS OF LARGER AND/OR SMALL TREES IN COMBINATION WITH ASSOCIATED PLANTINGS TO ENHANCE THE VISUAL APPEARANCE OF THE STREETScape AND VIEWS FROM THE ADJACENT PROPERTIES.
 - EACH LARGE CANOPY TREE IN THE STREETScape SHALL BE PROVIDED WITH AT LEAST THREE HUNDRED-AND-FIFTY (350) SQUARE FEET OF PERVIOUS GROUND AREA FOR ROOT GROWTH. ANY PLANTING AREA BOUNDED BY AN IMPERVIOUS SURFACE SHALL BE AT LEAST 10 FEET WIDE.
 - ALL SLOPES STEEPER THAN (2) TO ONE (1) SHALL BE STABILIZED WITH PERMANENT SLOPE RETENTION DEVICES OR A SUITABLE COMBINATION OF PLANTINGS AND RETENTION DEVICES.

- PLANTING REQUIREMENTS:**
- THE PERIMETER BUFFER SHALL HAVE
- (4) TREES / 100 LF.
 - (40) SHRUBS / 100 LF.
- THE STREETScape FOR JONESVILLE ROAD SHALL HAVE
- (1) TREE / 40 LF
- THE STREETScape FOR ALL INTERNAL SUBDIVISION ROADS SHALL HAVE
- (1) TREE / 60 LF EACH SIDE OF ROAD

PLANTING CALCULATIONS

JONESVILLE STREETScape	420 LF / 40 = 10.5 x 1 = 11 TREES
JONESVILLE PERIMETER BUFFER	420 LF / 100 = 4.2 x (4) = 17 TREES 420 LF / 100 = 4.2 x (40) = 168 SHRUBS
PERIMETER BUFFER (REQUIRED / AREA)	
#1	1,170 LF / 100 = 11.7 x (4) = 45 TREES 1,170 LF / 100 = 11.7 x (40) = 468 SHRUBS
#2	560 LF / 100 = 5.6 x (4) = 23 TREES 560 LF / 100 = 5.6 x (40) = 224 SHRUBS
#3	1,220 LF / 100 = 12.2 x (4) = 50 TREES 1,220 LF / 100 = 12.2 x (40) = 488 TREES
#4	830 LF / 100 = 8.3 x (4) = 34 TREES 830 LF / 100 = 8.3 x (40) = 332 SHRUBS
PERIMETER BUFFER TOTALS (REQUIRED)	169 TREES 1,680 SHRUBS
PERIMETER BUFFER TOTALS (PROPOSED)	169 TREES 1,680 SHRUBS
INTERNAL ROAD STREETScape (REQUIRED / STREET)	
STREET A	1,125 LF / 60 = 18.75 x (1) = 19 19 / SIDE = 38 TREES
STREET B	1,245 LF / 60 = 20.75 x (1) = 21 21 / SIDE = 42 TREES
STREET C	2,360 LF / 60 = 39.33 x (1) = 40 40 / SIDE = 80 TREES
STREET D	705 LF / 60 = 11.75 x (1) = 12 12 / SIDE = 24 TREES
STREET E	370 LF / 60 = 6.17 x (1) = 7 7 / SIDE = 14 TREES
INTERNAL ROAD TOTALS (REQUIRED)	198 TREES
INTERNAL ROAD TOTALS (PROPOSED)	198 TREES

60. Remove "existing" tree line. If the black line is the proposed tree line, that should stay. If not, delete that one as well. If existing trees are to remain, show tree protection fencing.

62. Add horizontal lines to make this table easier to follow.

63. Update to "Tree" to be consistent within plans.

64. Add open space (active and passive) hatching to this legend.

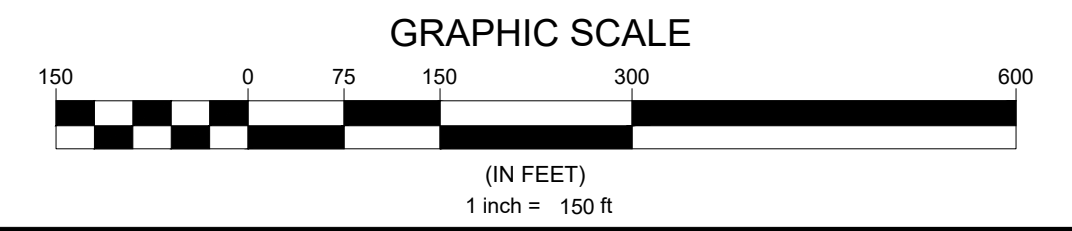
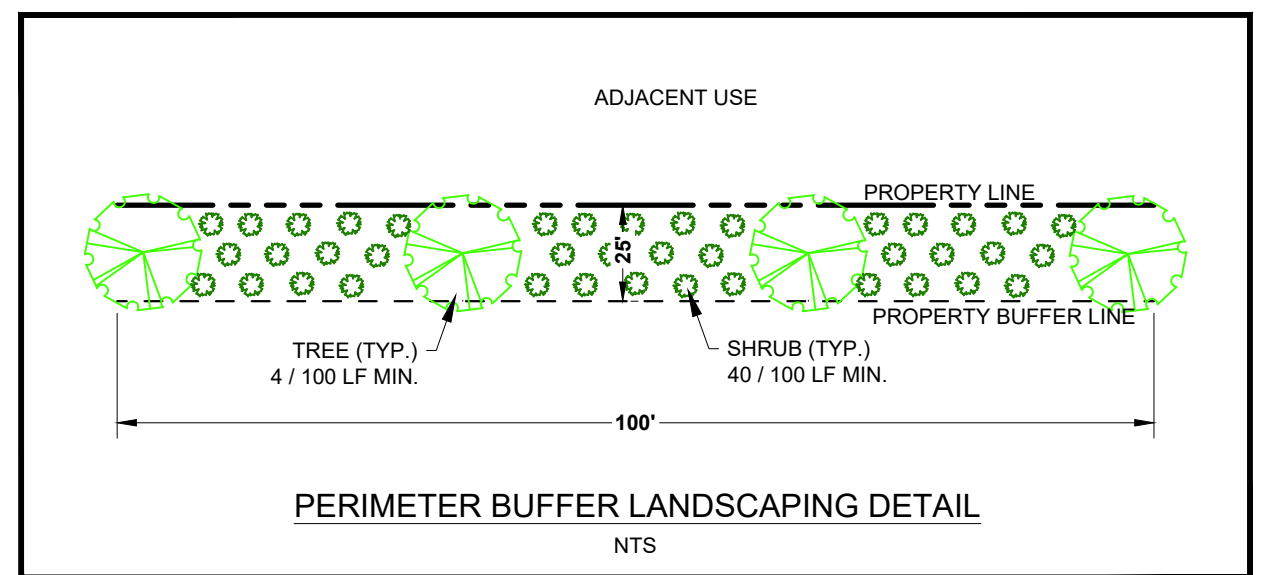
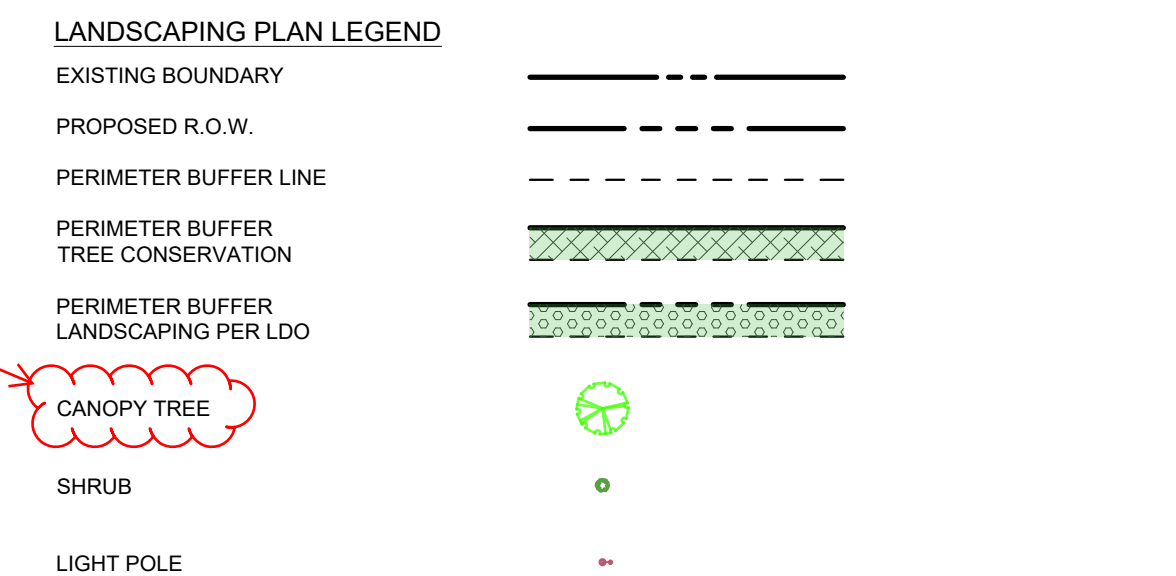
65. Add water and sewer services to this plan sheet to check for interference with plantings.

66. Confirm if there are power lines on site; show if there are.

TREE / SHRUB LIST

Common Name	Scientific Name	Type	Height	Width	Light	Comments
Trident Maple	Acer buergerianum	Decid - Canopy	30' - 40'	25' - 35'	full-sun / part-sun / Shade	Green, turns red in Fall / Heat-tolerant / pH 5.6 - 6.5
Yellow Buckeye	Aesculus flava	Decid - Canopy	45'	50'	full-sun / part-sun / Shade	Green, turns yellow in Fall / Heat-tolerant / pH 5.6 - 6.5
Yellowwood	Cladrastis kentukea	Decid - Canopy	35'	40'	part-sun	white flowers, fragrant, pendulous, blooms in late spring or early summer and often blooms only every 2-3 years
'Jane' Saucer Magnolia	Magnolia 'Jane'	Decid - Understory	8' - 15'	15'	full-sun / part-sun / Shade	Flowers purple
Devilwood	Osmanthus americanus	Decid - Understory	12' - 20'	8' - 12'	full-sun / part-sun / Shade	
Persian Parrotia	Parrotia persica	Decid - Understory	30'	30'	full-sun / part-sun / Shade	Flowers Orange
Arizona Cypress	Cupressus arizonica	Evergreen	30' - 40'	15' - 20'	full-sun	Will thin with competition; subject to canker and not long-lived; can become more open with age
'James Swan' Holly	Ilex 'James Swan'	Evergreen	20' - 30'	10' - 18'	full-sun / part-sun / Shade	A dense form with large, dark green, evergreen leaves
Hearts-a-Burstin	Euonymus americanus	Shrub	4' - 6'	3' - 4'	full-sun / part-sun / Shade	green w/ red flowering; Prefers well-drained soils; very pH- and soil-adaptable
Leaf Butterfly Bush	Buddleia alternifolia	Shrub	10' - 20'	10' - 20'	full-sun	green w/ purple flowering; preferring loose, loamy soil;
Clethra, Pepperbush	Clethra alnifolia	Shrub	4' - 8'	4' - 6'	full-sun / part-sun / Shade	green w/ white flowering; very adaptable; salt tolerant; easy to grow; forms suckering colonies
Thunberg Lespedeza	Lespedeza thunbergii	Shrub	3' - 6'	3' - 6'	full-sun / part-sun / Shade	purple; Best in well-drained soil, but is soil-, pH-, and heat-tolerant; often dies back to ground in winter

- Trees to be installed under overhead powerlines shall have a mature height of no greater than 30ft.
- Shade trees shall be a minimum of 3" caliper and 10' tall at time of planting
- Understory trees shall be a minimum of 1.5" caliper for single stem and 6' tall for both single and multi-stemmed trees at time of planting
- Evergreen shall be a minimum of 1.5" caliper for single stem and 6' tall for both single and multi-stemmed trees at time of planting
- Shrubs shall be a minimum of 18" tall at time of planting



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(919) 996-9455

Surveyor
BCSO Bateman Civil Survey Company
2524 Reliance Avenue
Apex, NC 27539
919-557-1080 ext 109
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Jurisdiction / Municipality
Rolesville
Town of Rolesville
502 Southtown Cir
Rolesville, NC 27571
Phone: 919-554-6517
PSP-24-XX

Other Consultants

Sheet map:

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Project:
HARRIS CREEK FARMS
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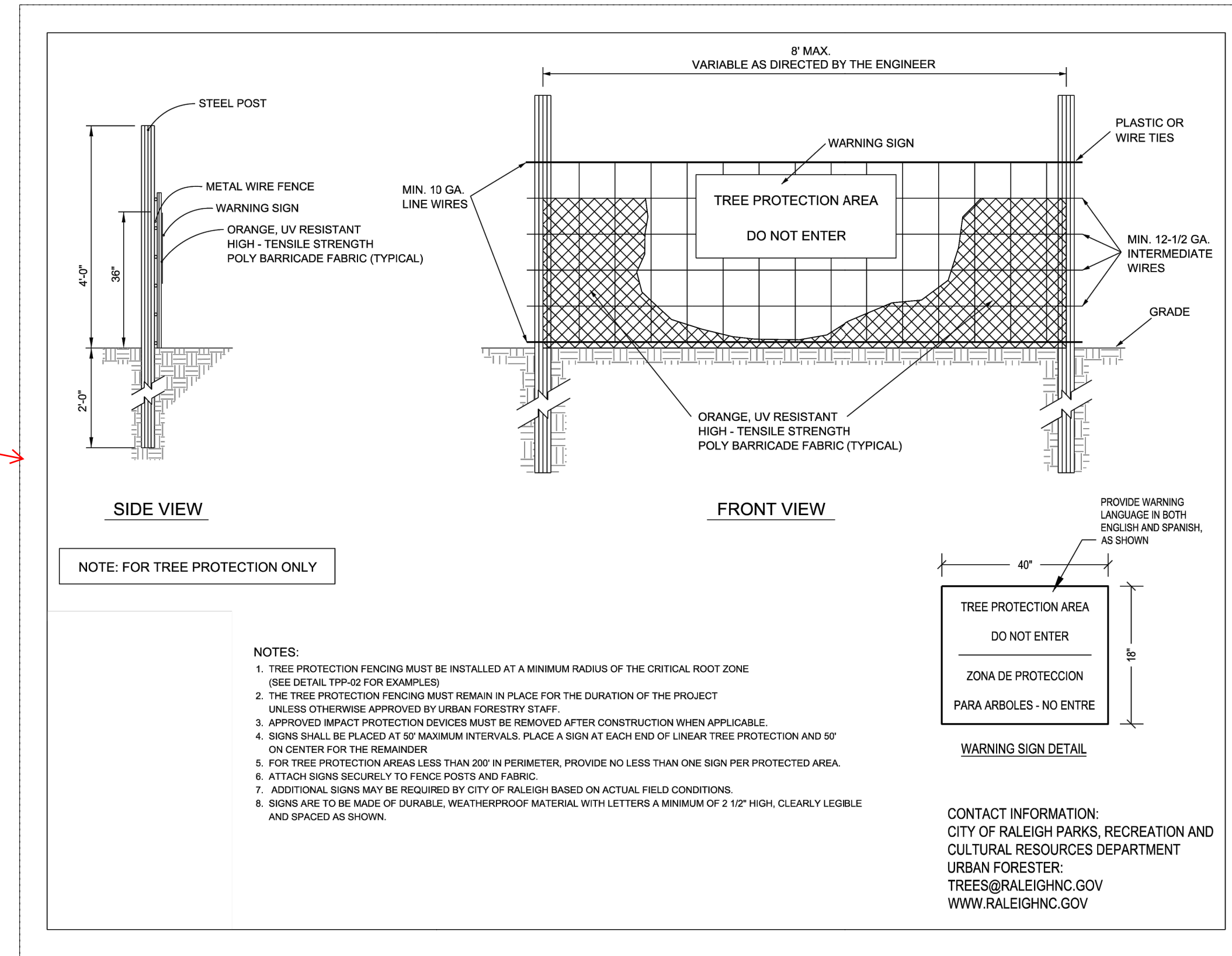
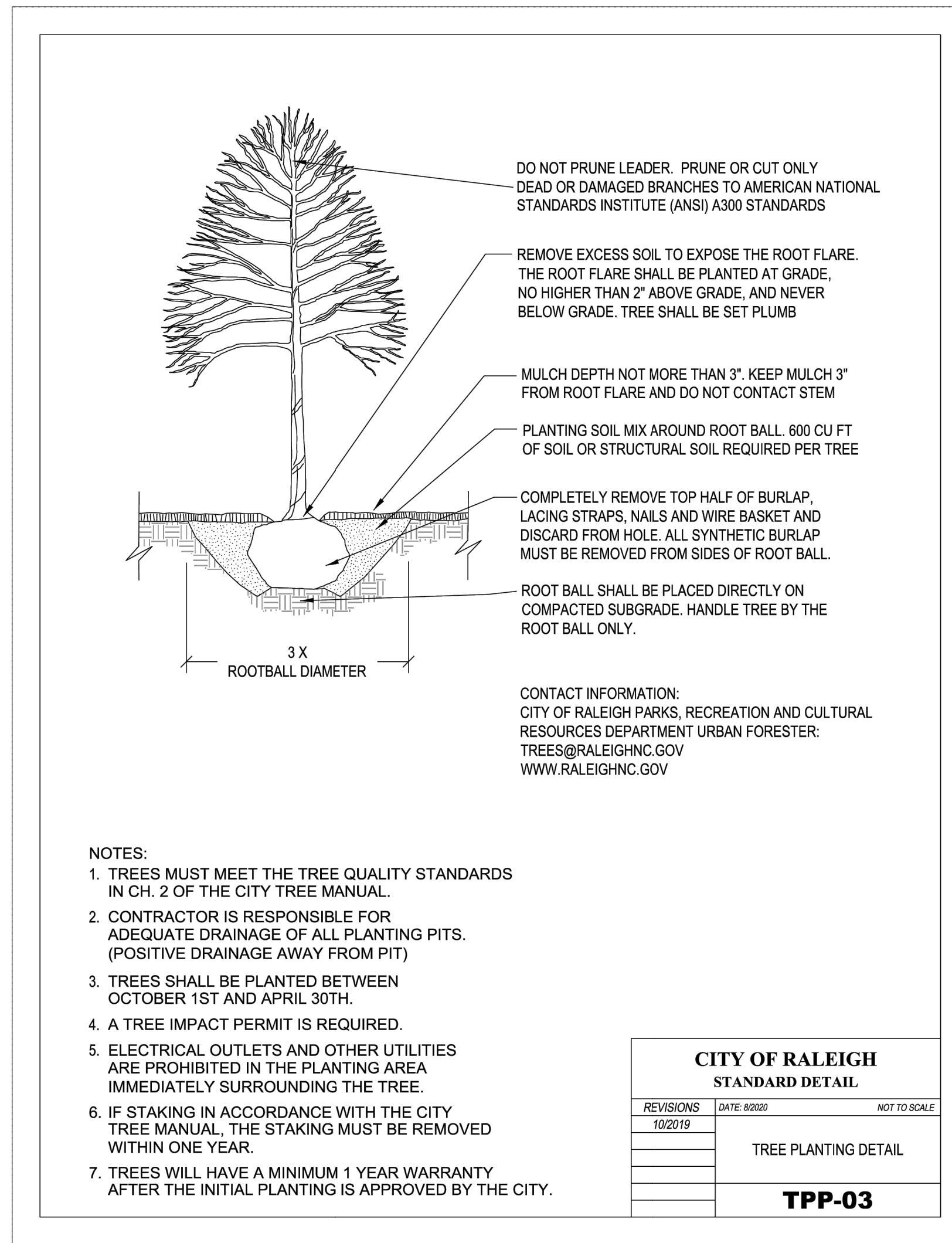
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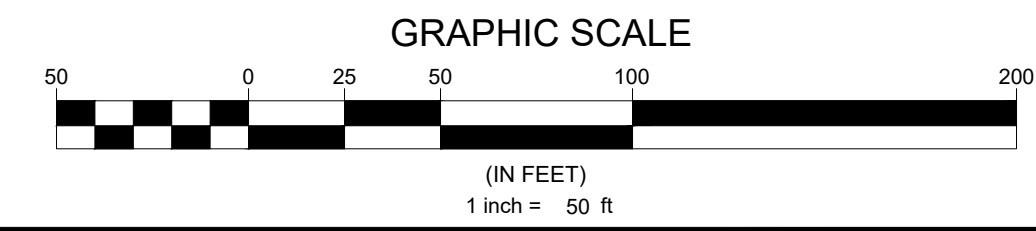
Sheet Title:
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27

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67. For Erosion Control, please use Wake County Details.



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