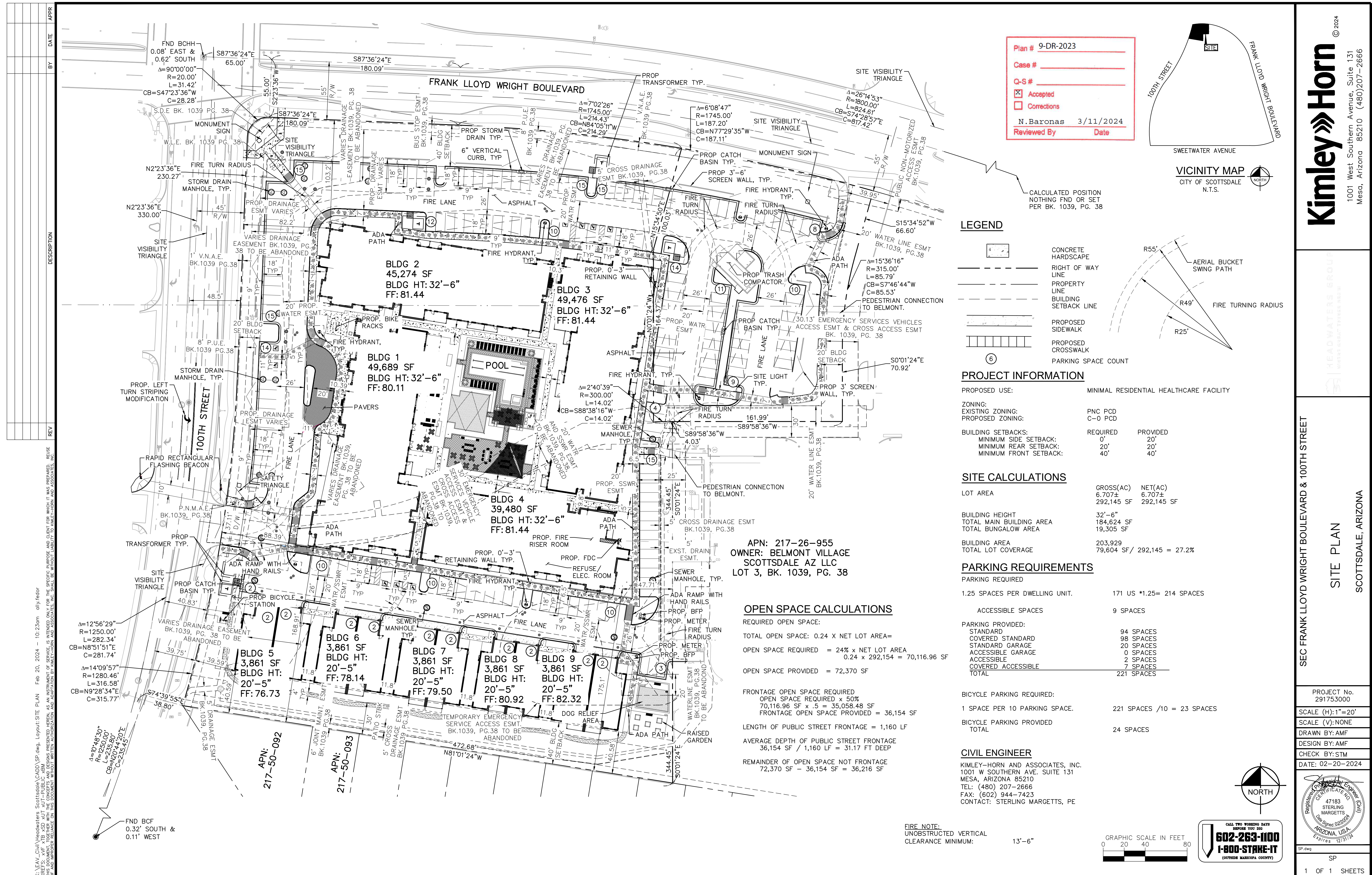




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<u>DISPOSAL CALCULATIONS</u>		
	<u>DISPOSAL VOLUME</u>	<u>DISPOSAL RATE</u>
UG 1	60,711 CF	0.10 CFS
1. SEE DRAINAGE REPORT FOR DRAINAGE CALCULATION		

NOTE: THE QUANTITIES LISTED ON THIS SHEET ARE APPROXIMATE AND ARE AN ESTIMATE ONLY. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF THE QUANTITIES INVOLVED AND SHALL BASE HIS BID ON HIS OWN ESTIMATE.

MATCHLINE SEE SHEET 10



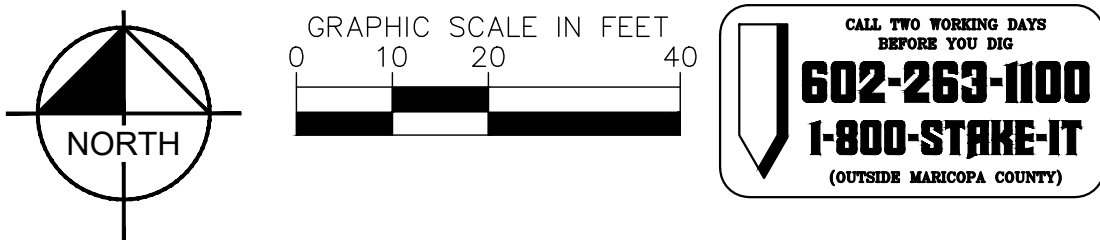
1. ALL RETENTION CALCULATIONS ARE BASED ON A 100-YEAR 2-HOUR RAINFALL RUNOFF OF 2.52 INCHES FROM CITY OF GLENDALE DESIGN STANDARDS AND POLICY MANUAL.
2. RETENTION CALCULATIONS DO NOT INCLUDE RUNOFF FROM HALF-STREET RIGHT OF WAY ALONG 51ST AVE TO EXISTING PUBLIC STORM DRAIN AND CATCH BASINS.

<u>DISPOSAL CALCULATIONS</u>				
BASIN A	<u>DISPOSAL</u> <u>VOLUME</u>	<u>DISPOSAL</u> <u>RATE</u>	<u>DISPOSAL</u> <u>TIME</u>	<u>DRYWELL</u> <u>NEEDED</u>
	61,025 CF	0.10 CFS	34 HRS	5

GRADING LEGEND

	PROPERTY LINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	HIGH POINT
	PROPOSED LANDSCAPE SWALE
	PROPOSED CONTOUR
	EXISTING CONTOUR
	PROPOSED FLOW ARROW
	PROPOSED PAVEMENT SPOT ELEVATION
	PROPOSED SIDEWALK SPOT ELEVATION
	PROPOSED LANDSCAPE SPOT ELEVATION
	EXISTING SURVEY SPOT ELEVATION

- ## NOTES
1. ADD 1400' TO ELEVATIONS.
 2. ADD 0.5' TO PAVEMENT (P) ELEVATIONS FOR TOP OF CURB ELEVATIONS FOR VERTICAL CURBS.
 3. ALL SPOT ELEVATIONS ARE FINISHED GRADE PAVEMENT (P), GUTTER/GRATE (G), TOP OF CURB (TC), OR SIDEWALK (SW) ELEVATIONS UNLESS OTHERWISE NOTED.
 4. CONTRACTOR SHALL USE SPOT ELEVATIONS, PROPOSED CONTOURS, AND SLOPES TO ESTABLISH GRADES.
 5. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% AND LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
 6. REFER TO LANDSCAPE PLANS FOR SLOPE TREATMENT.
 7. ALL FILL SLOPES SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
 8. REFER TO BUILDING ARCHITECTURE AND STRUCTURAL PLANS FOR EXACT BUILDING FOUNDATION THICKNESS CHANGES.
 9. ALL PIPE CONNECTIONS SHALL BE WATER TIGHT.



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GRADING AND DRAINAGE PLAN

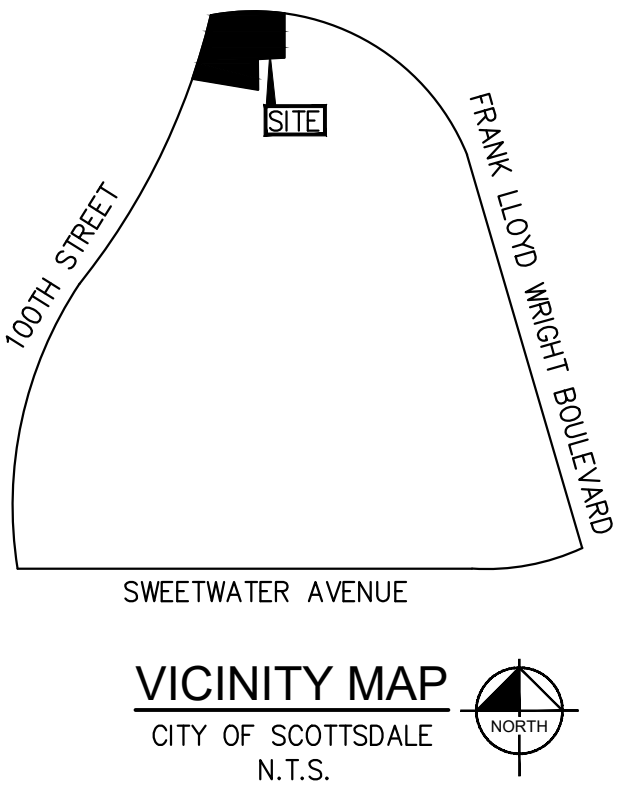
SCOTTSDALE, ARIZONA

PROJECT No. 291753000
SCALE (H): 1"=20'
SCALE (V): NONE
DRAWN BY: AMF
DESIGN BY: AMF
CHECK BY: STM
DATE: 02-20-2024

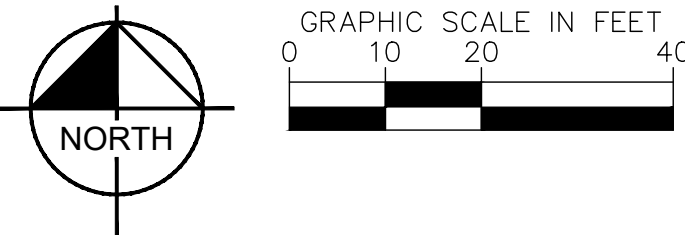
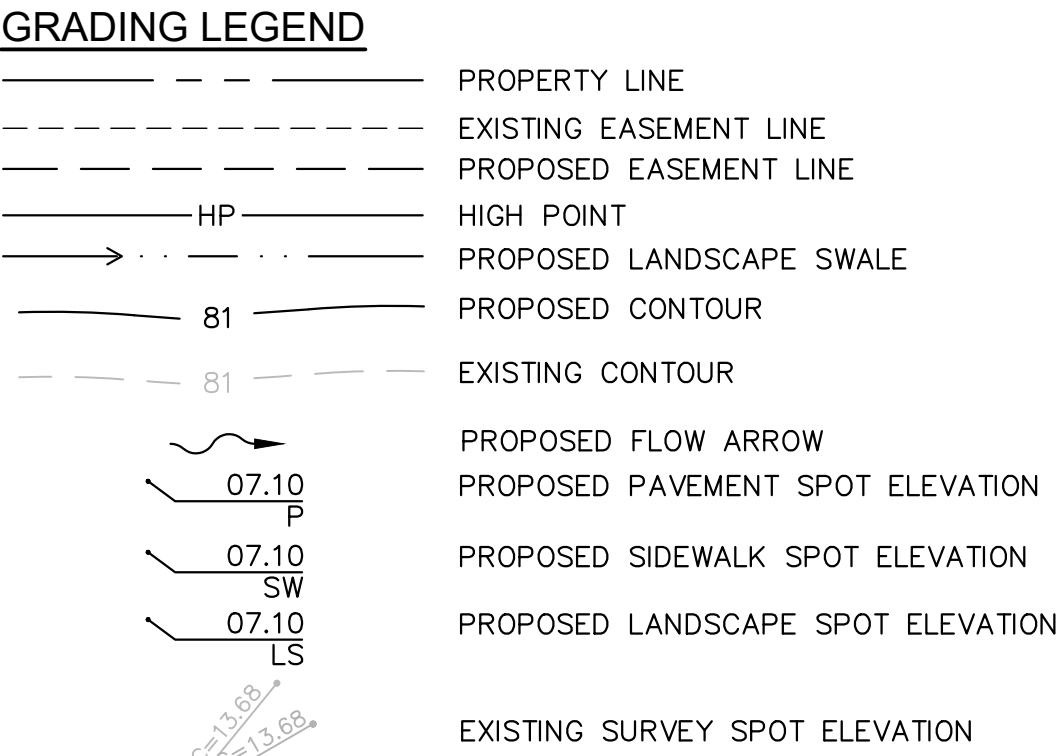


GD-1
1 OF 5 SHEETS

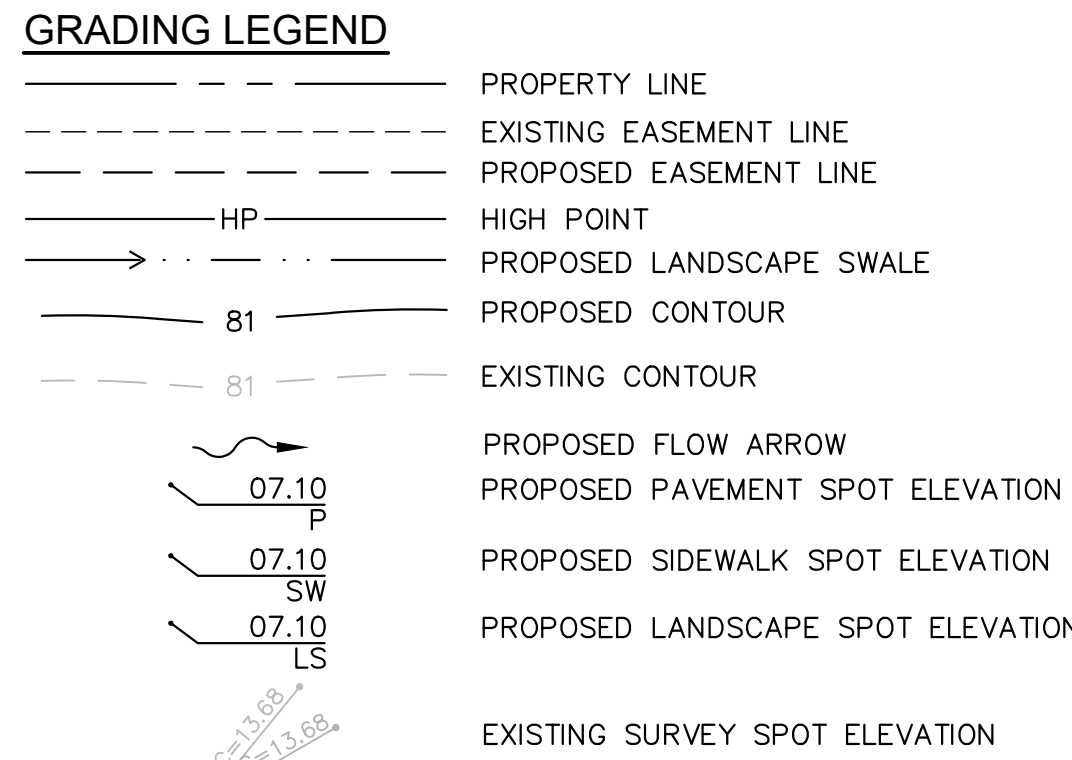
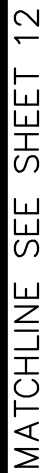
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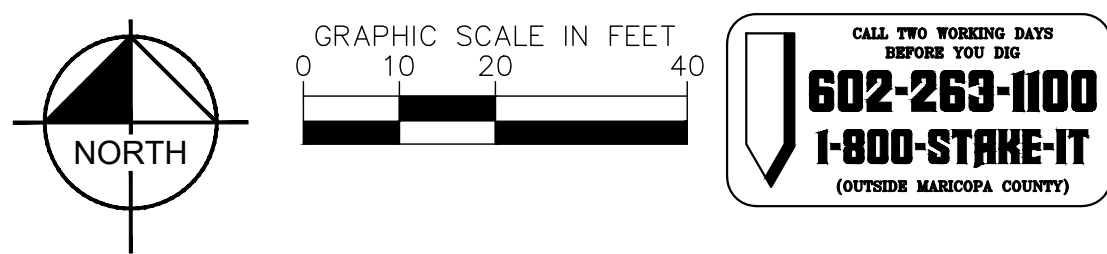
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SEC FRANK LLOYD WRIGHT BOULEVARD & 100TH STREET	GRADING AND DRAINAGE PLAN	SCOTTSDALE, ARIZONA
PROJECT No. 291753000	SCALE (H): 1"=20' SCALE (V): NONE DRAWN BY: AMF DESIGN BY: AMF CHECK BY: STM DATE: 02-20-2024	
GD-2	GD-2	2 OF 5 SHEETS



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GRADING AND DRAINAGE PLAN

SCOTTSDALE, ARIZONA

PROJECT No.
291753000

SCALE (H): 1"=20'

SCALE (V): NONE

DRAWN BY: AMF

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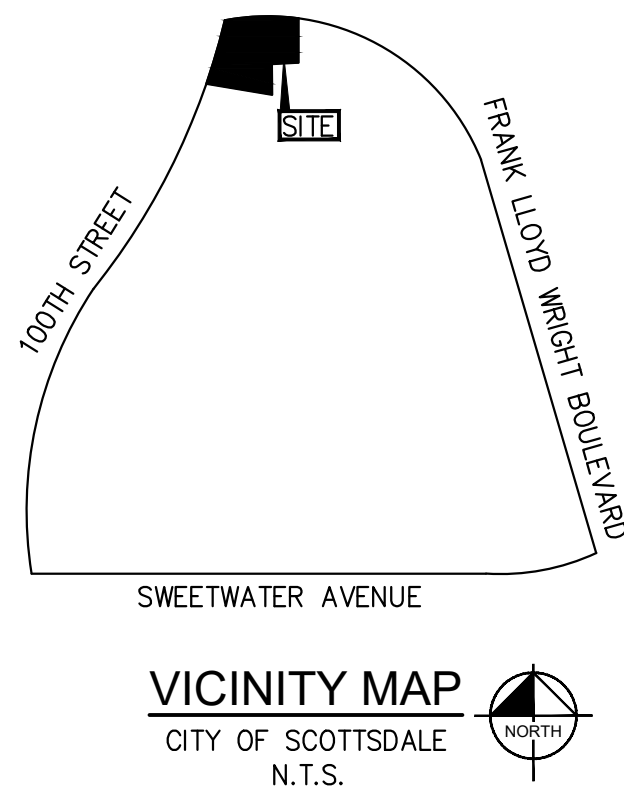
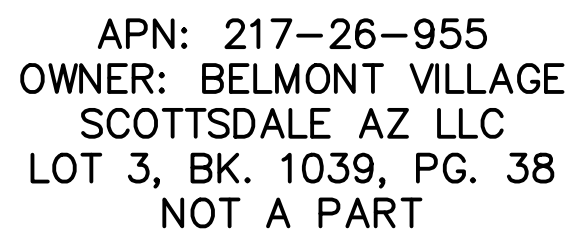


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GD-3

3 OF 5 SHEETS

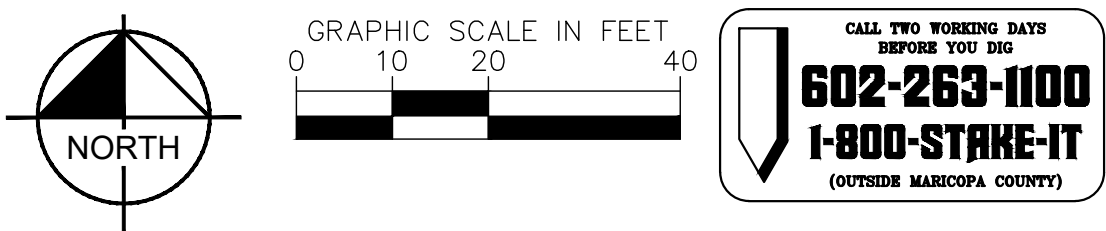
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GRADING LEGEND

	PROPERTY LINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	HIGH POINT
	PROPOSED LANDSCAPE SWALE
	PROPOSED CONTOUR
	EXISTING CONTOUR
	PROPOSED FLOW ARROW
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 9. ALL PIPE CONNECTIONS SHALL BE WATER TIGHT.

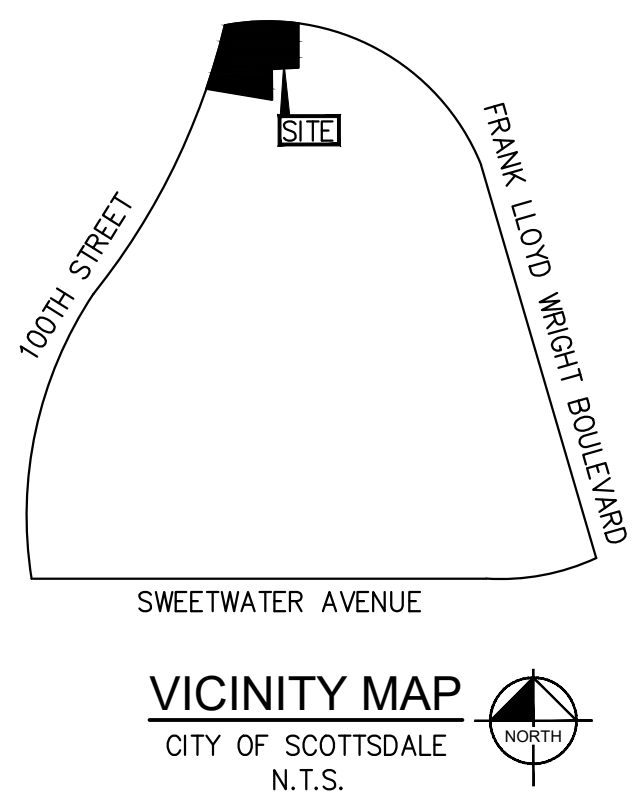


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GRADING AND DRAINAGE PLAN	SCOTTSDALE, ARIZONA
PROJECT No. 291753000 SCALE (H): 1"=20' SCALE (V): NONE DRAWN BY: AMF DESIGN BY: AMF CHECK BY: STM DATE: 02-20-2024 	CD.dwg CD-4 4 OF 5 SHEETS

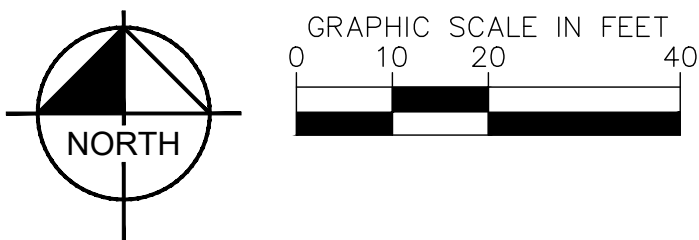
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MATCHLINE SEE SHEET 14



- ① INSTALL HDPE PIPE WITH WATERTIGHT JOINTS. LENGTH, SIZE AND SLOPE PER PLAN, BEDDING AND BACKFILL PER DETAIL ON SHEET 29.
- ③ INSTALL HDPE TEE. SIZE AND INVERT PER PLAN.
- ④ INSTALL CATCH BASIN PER MAG STD DET 534. MODIFY WALLS AND BOTTOM TO BE 8" THICK WITH #5 REBAR AT 12" O.C. WHEN DEEPER THAN 5 FEET. RIM AND INVERT ELEVATIONS PER PLAN.
- ⑤ INSTALL HDPE BEND, ANGLE AND INVERT PER PLAN. SIZE TO MATCH ADJACENT PIPE.
- ⑧ INSTALL 5' DIAMETER STORM DRAIN MANHOLE PER MAG STD DET 520. RIM AND INVERT PER PLAN.
- ⑨ STORM DRAIN CONNECTION TO UNDERGROUND RETENTION TANK. INVERT PER PLAN.
- ⑫ INSTALL 120" CMP GAUGE 14 ALUMINIZED TYPE 2 UNDERGROUND RETENTION TANK. LENGTH PER PLAN. DETAIL ON SHEET 29.
- ⑮ INSTALL 12" CMP CONECTOR PIPES BETWEEN UNDERGROUND RETENTION TANKS AND DRYWELL. BEDDING AND BACKFILL PER MANUFACTURER'S RECOMMENDATIONS.
- ⑰ INSTALL MAXWELL PLUS DRYWELL PER DETAIL ON SHEET 29. RIM AND INVERT PER PLAN.
- ⑲ INSTALL GRATED UNDERGROUND RETENTION ACCESS RISER PER DETAIL ON SHEET 29. GRATE SHALL BE SECURED WITH CHAIN. RIM PER PLAN.
- ⑳ INSTALL UNDERGROUND RETENTION ACCESS RISER PER DETAIL ON SHEET 29. RIM PER PLAN.



SEC FRANK LLOYD WRIGHT BOULEVARD & 100TH STREET

STORM DRAIN PLAN

SCOTTSDALE, ARIZONA

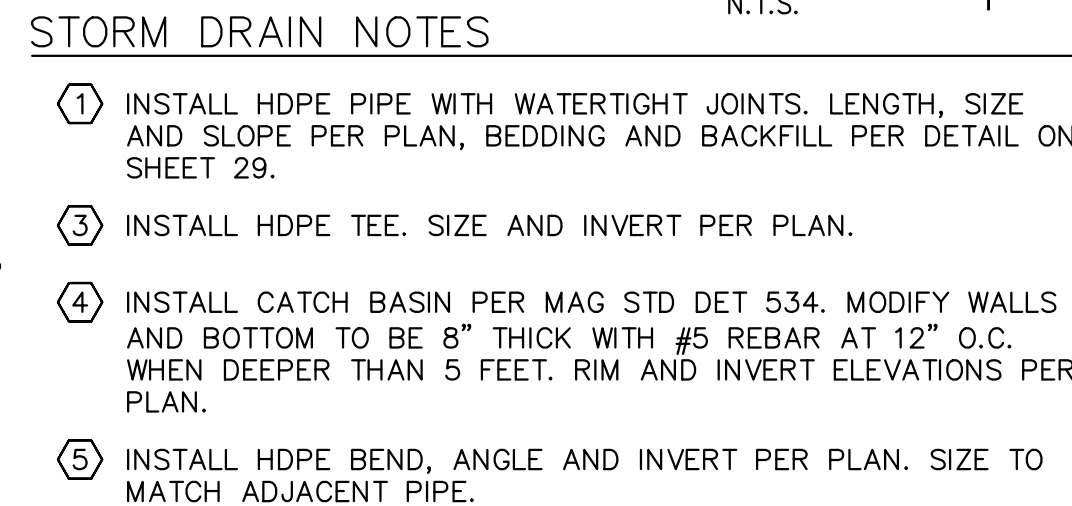
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SCALE (H): 1"=20'
SCALE (V): NONE
DRAWN BY: AMF
DESIGN BY: AMF
CHECK BY: STM
DATE: 02-20-2024



SD-1
1 OF 4 SHEETS

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CALCULATED POSITION
NOTHING FND OR SET
PER BK. 1039, PG. 38

SECTION LINE:
SOUTH LINE OF SOUTHEAST QUARTER OF SECTION 8
NORTH LINE OF NORTHEAST QUARTER OF SECTION 17

APN: 217-26-955
OWNER: BELMONT
VILLAGE
SCOTTSDALE AZ LLC
LOT 3, BK. 1039, PG.
38
NOT A PART



STORM DRAIN PLAN

SCOTTSDALE, ARIZONA

PROJECT No. 291753000
SCALE (H): 1"=20'
SCALE (V): NONE
DRAWN BY: AMF
DESIGN BY: AMF
CHECK BY: STM
DATE: 02-20-2024

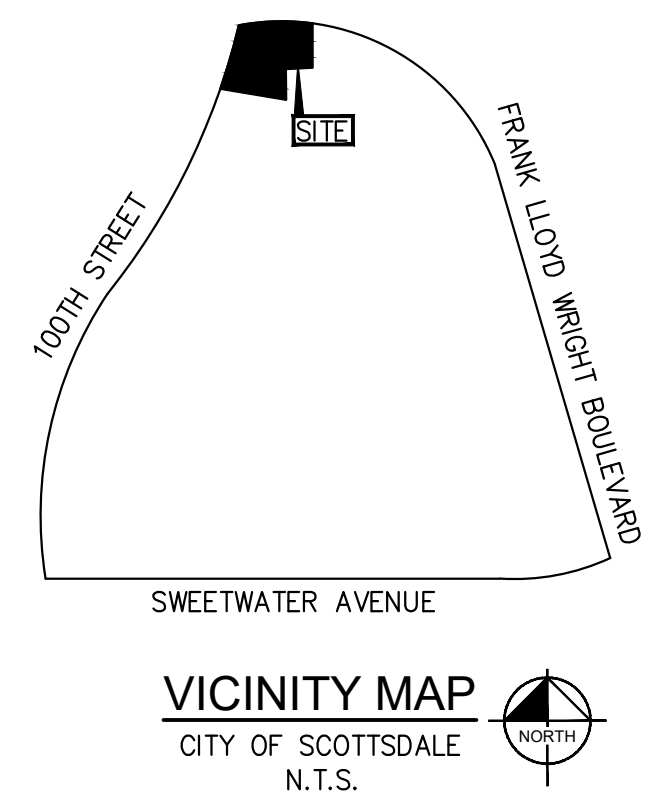
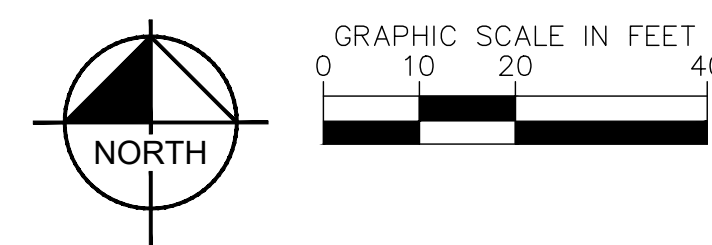
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- ## STORM DRAIN NOTES
- ① INSTALL HDPE PIPE WITH WATERTIGHT JOINTS. LENGTH, SIZE AND SLOPE PER PLAN, BEDDING AND BACKFILL PER DETAIL ON SHEET 29.
 - ③ INSTALL HDPE TEE. SIZE AND INVERT PER PLAN.
 - ④ INSTALL CATCH BASIN PER MAG STD DET 534. MODIFY WALLS AND BOTTOM TO BE 8" THICK WITH #5 REBAR AT 12" O.C. WHEN DEEPER THAN 5 FEET. RIM AND INVERT ELEVATIONS PER PLAN.
 - ⑤ INSTALL HDPE BEND, ANGLE AND INVERT PER PLAN. SIZE TO MATCH ADJACENT PIPE.
 - ⑨ STORM DRAIN CONNECTION TO UNDERGROUND RETENTION TANK. INVERT PER PLAN.
 - ⑩ INSTALL 120" CMP GAUGE 14 ALUMINIZED TYPE 2 UNDERGROUND RETENTION TANK. LENGTH PER PLAN. DETAIL ON SHEET 29.
 - ⑫ INSTALL 12" CMP CONNECTOR PIPES BETWEEN UNDERGROUND RETENTION TANKS AND DRYWELL. BEDDING AND BACKFILL PER MANUFACTURER'S RECOMMENDATIONS.
 - ⑫ INSTALL MAXWELL PLUS DRYWELL PER DETAIL ON SHEET 29. RIM AND INVERT PER PLAN.
 - ⑫ INSTALL GRATED UNDERGROUND RETENTION ACCESS RISER PER DETAIL ON SHEET 29. GRATE SHALL BE SECURED WITH CHAIN. RIM PER PLAN.
 - ⑫ INSTALL UNDERGROUND RETENTION ACCESS RISER PER DETAIL ON SHEET 29. RIM PER PLAN.
 - ⑫ INSTALL 1" SLOTTED DRAIN WITH 12" HDPE PIPE. LENGTH PER PLAN.

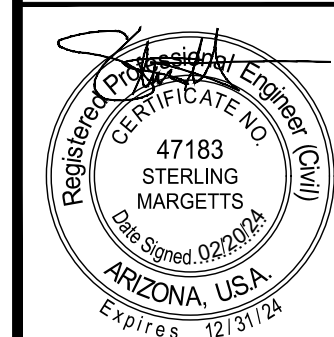


SEC FRANK LLOYD WRIGHT BOULEVARD & 100TH STREET

STORM DRAIN PLAN

SCOTTSDALE, ARIZONA

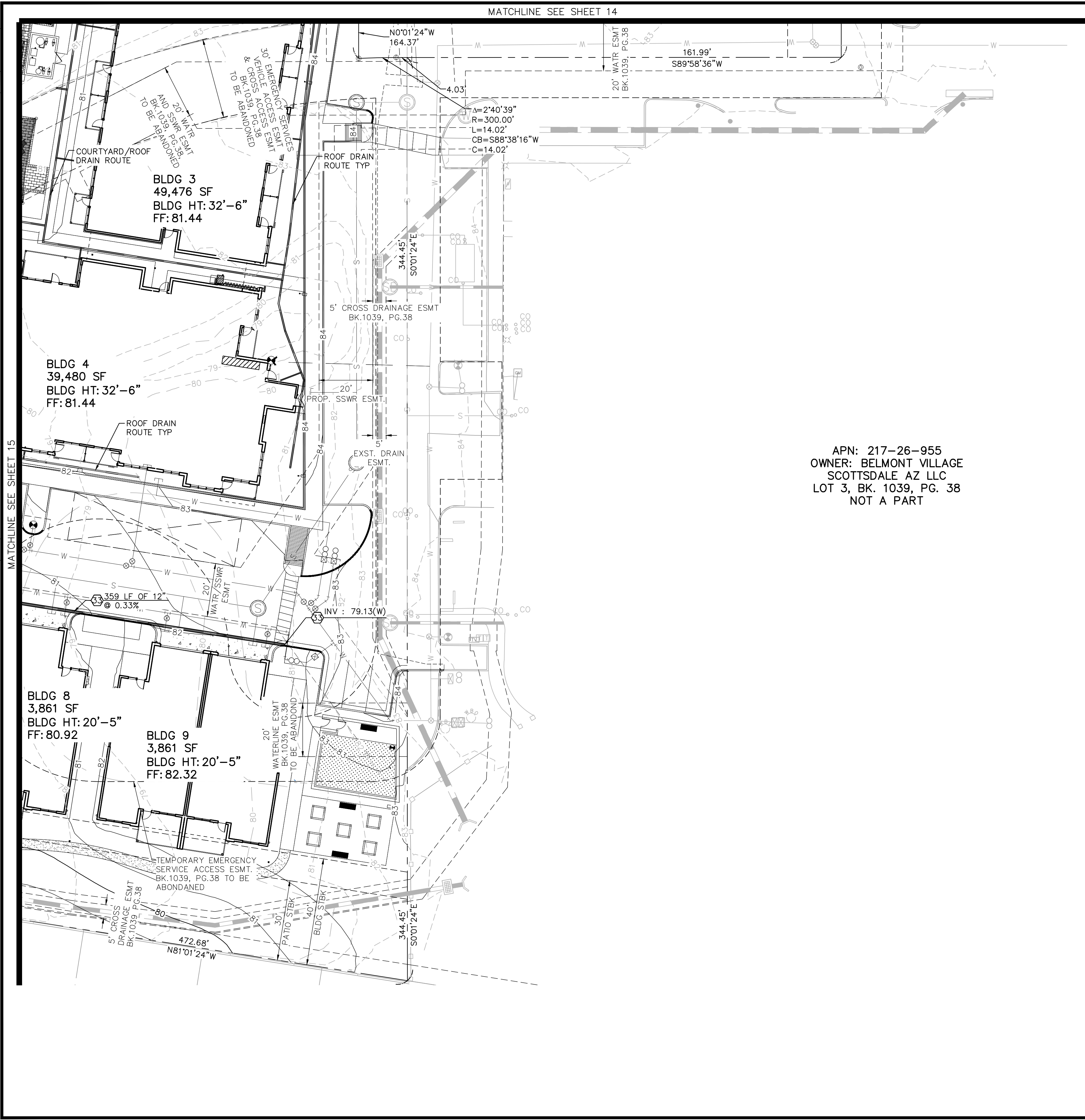
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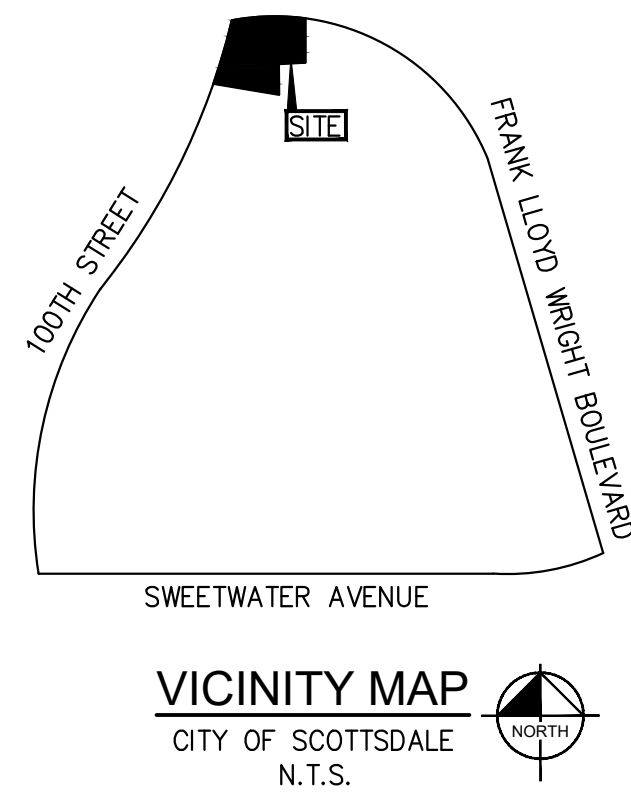
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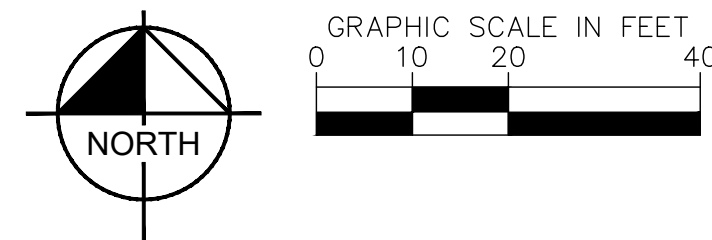


APN: 217-26-955
OWNER: BELMONT VILLAGE
SCOTTSDALE AZ LLC
LOT 3, BK. 1039, PG. 38
NOT A PART



STORM DRAIN NOTES

- 5 INSTALL HDPE BEND, ANGLE AND INVERT PER PLAN. SIZE TO MATCH ADJACENT PIPE.
- 33 INSTALL 1" SLOTTED DRAIN WITH 12" HDPE PIPE. LENGTH PER PLAN.

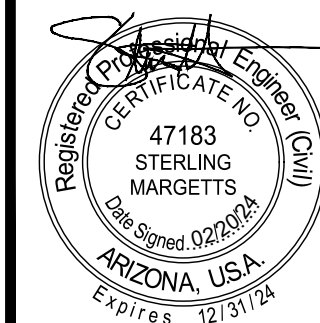


SEC FRANK LLOYD WRIGHT BOULEVARD & 100TH STREET

STORM DRAIN PLAN

SCOTTSDALE, ARIZONA

PROJECT No. 291753000
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SCALE (V):NONE
DRAWN BY:AMF
DESIGN BY:AMF
CHECK BY:STM
DATE: 02-20-2024



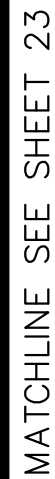
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4 OF 4 SHEETS

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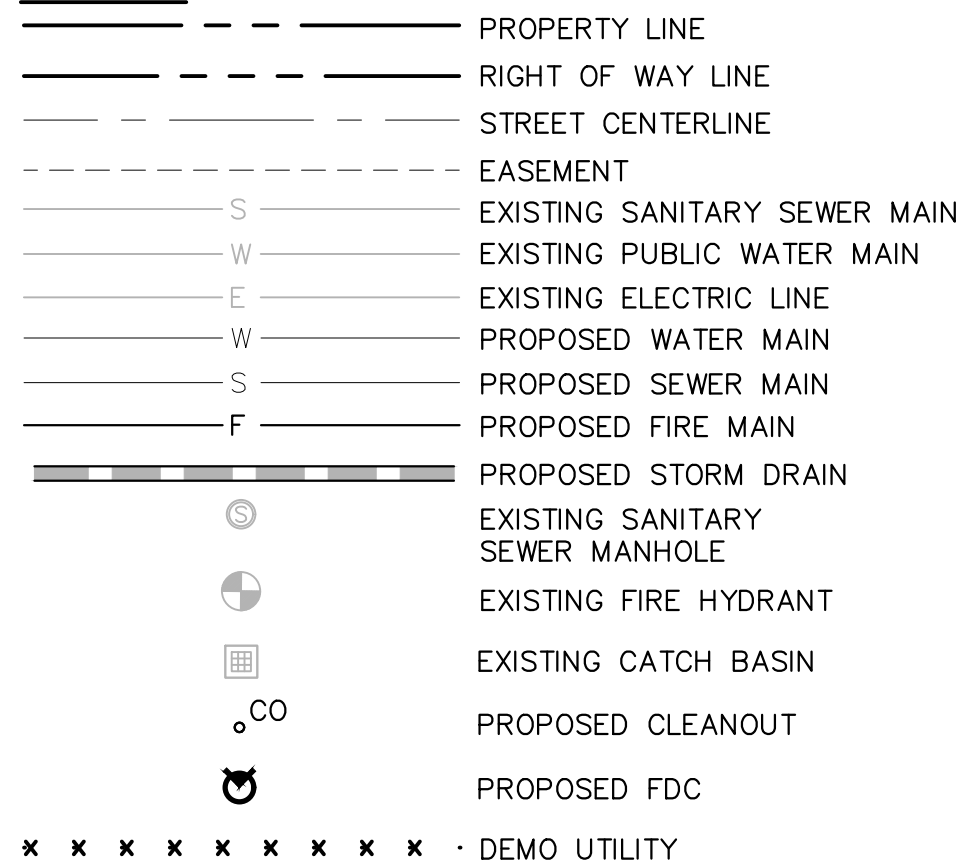
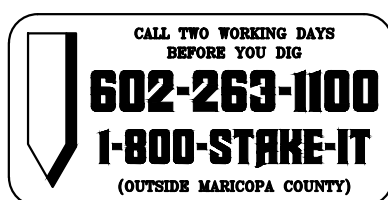
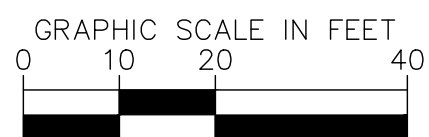
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1. STATION AND OFFSET BASED ON FRANK LLOYD WRIGHT BOULEVARD CENTERLINE.
2. ALL VALVES SHALL BE FLANGED TO TEES, BENDS, AND CROSSES.
3. ADD 1400 TO ALL ELEVATIONS.
4. ALL 8" PIPE SHALL HAVE 3' MINIMUM COVER.

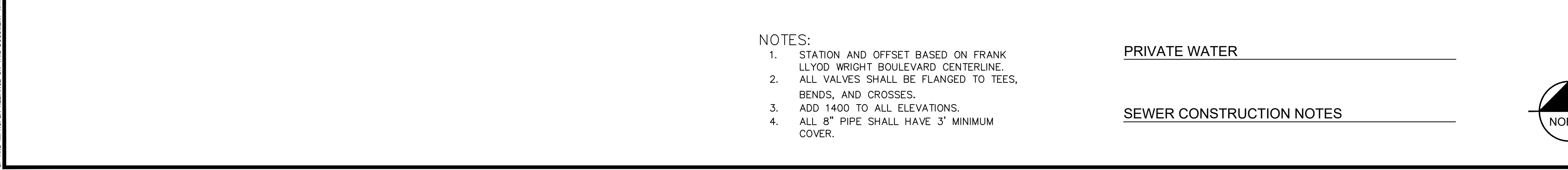


SEWER CONSTRUCTION NOTES

PUBLIC WATER NOTES

- (3) INSTALL 8" DUCTILE IRON CLASS 350 WATERLINE WITH POLYWRAP WITH BEDDING AND BACKFILL PER EPCOR STD DET. 350-1. LENGTH PER PLAN. 3' MIN COVER.
- (6) INSTALL 6" DUCTILE IRON WITH POLYWRAP PRESSURE CLASS 350 WATERLINE WITH BEDDING AND BACKFILL PER MAG SPEC 601. LENGTH PER PLAN.
- (9) INSTALL FIRE HYDRANT ASSEMBLY AND VALVE COMPLETE PER MAG STD DET 360-1. PROVIDE MIN. CLEARANCE PER MAG STD DET 362. INSTALL 6-INCH D.I. FIRE LINE, MORTAR LINED PER MAG SPEC 350 WITH POLYWRAP CORROSION PROTECTION PER MAG SPEC 610.5. BEDDING AND BACKFILL PER MAG SPECS. 4' MINIMUM COVER REQUIRED. LENGTH PER PLAN.
- (12) INSTALL 8"x6" TEE WITH RESTRAINED JOINTS PER COS DET DET 2342-2 AND MAG STD DET 303.
- (19) INSTALL 8" GATE VALVE PER MAG STD DET 391-1 TYPE C AND COS STD DET 2770.
- (20) INSTALL 8" GATE VALVE PER MAG STD DET 391-1 TYPE C AND COS STD DET 2770.
- (24) INSTALL 8" 22' BEND WITH RESTRAINED JOINTS PER COS STD DET 2342-2. AND MAG STD DET 303.
- (25) INSTALL 8" 45' BEND WITH RESTRAINED JOINTS PER COS STD DET 2342-2. AND MAG STD DET 303.
- (26) INSTALL 8" 11' BEND WITH RESTRAINED JOINTS PER COS STD DET 2342-2. AND MAG STD DET 303.

PRIVATE WATER

[illegible]

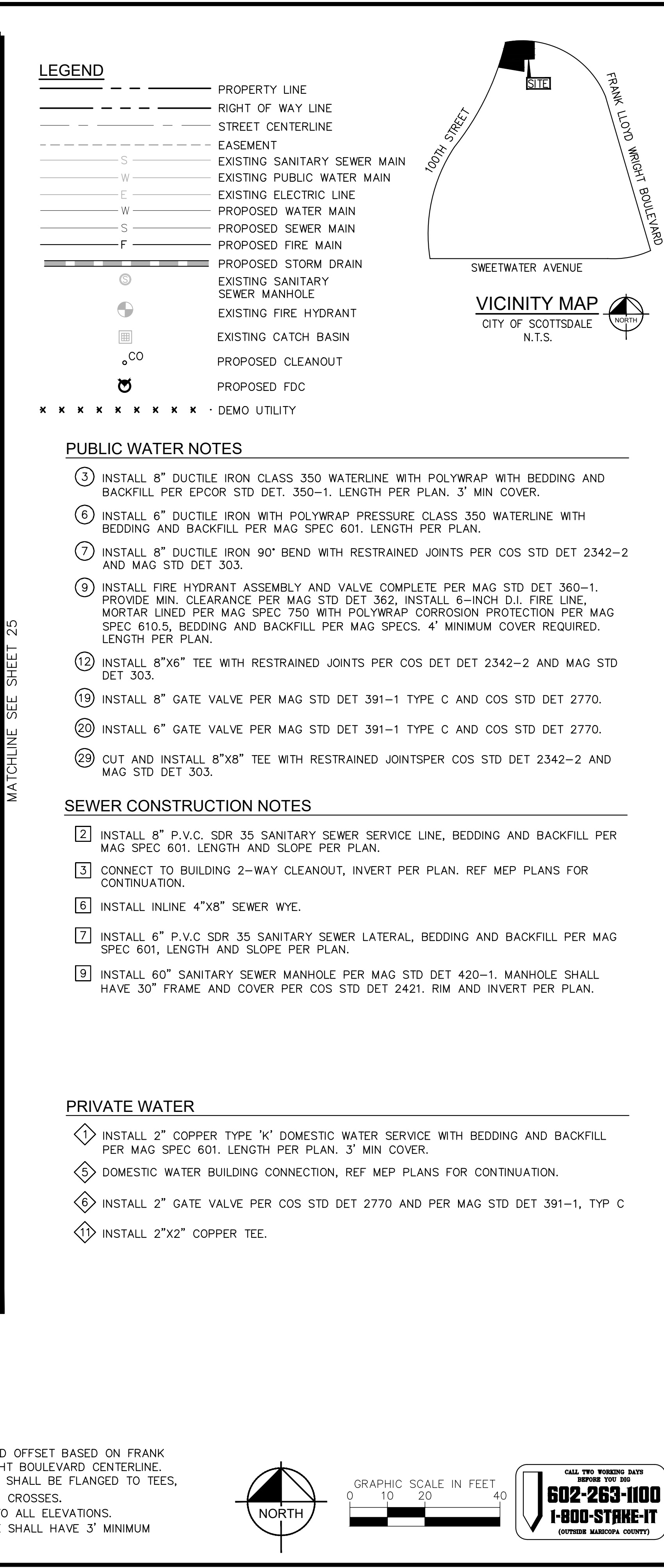
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UT-2

2 OF 4 SHEETS



Kimley»»Horn
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[illegible]

PRIVATE WATER

- ① INSTALL 2" COPPER TYPE 'K' DOMESTIC WATER SERVICE WITH BEDDING AND BACKFILL PER MAG SPEC 601. LENGTH PER PLAN. 3' MIN COVER.
- ⑤ DOMESTIC WATER BUILDING CONNECTION, REF MEP PLANS FOR CONTINUATION.
- ⑥ INSTALL 2" GATE VALVE PER COS STD DET 2770 AND PER MAG STD DET 391-1, TYPE C
- ⑪ INSTALL 2"x2" COPPER TEE.

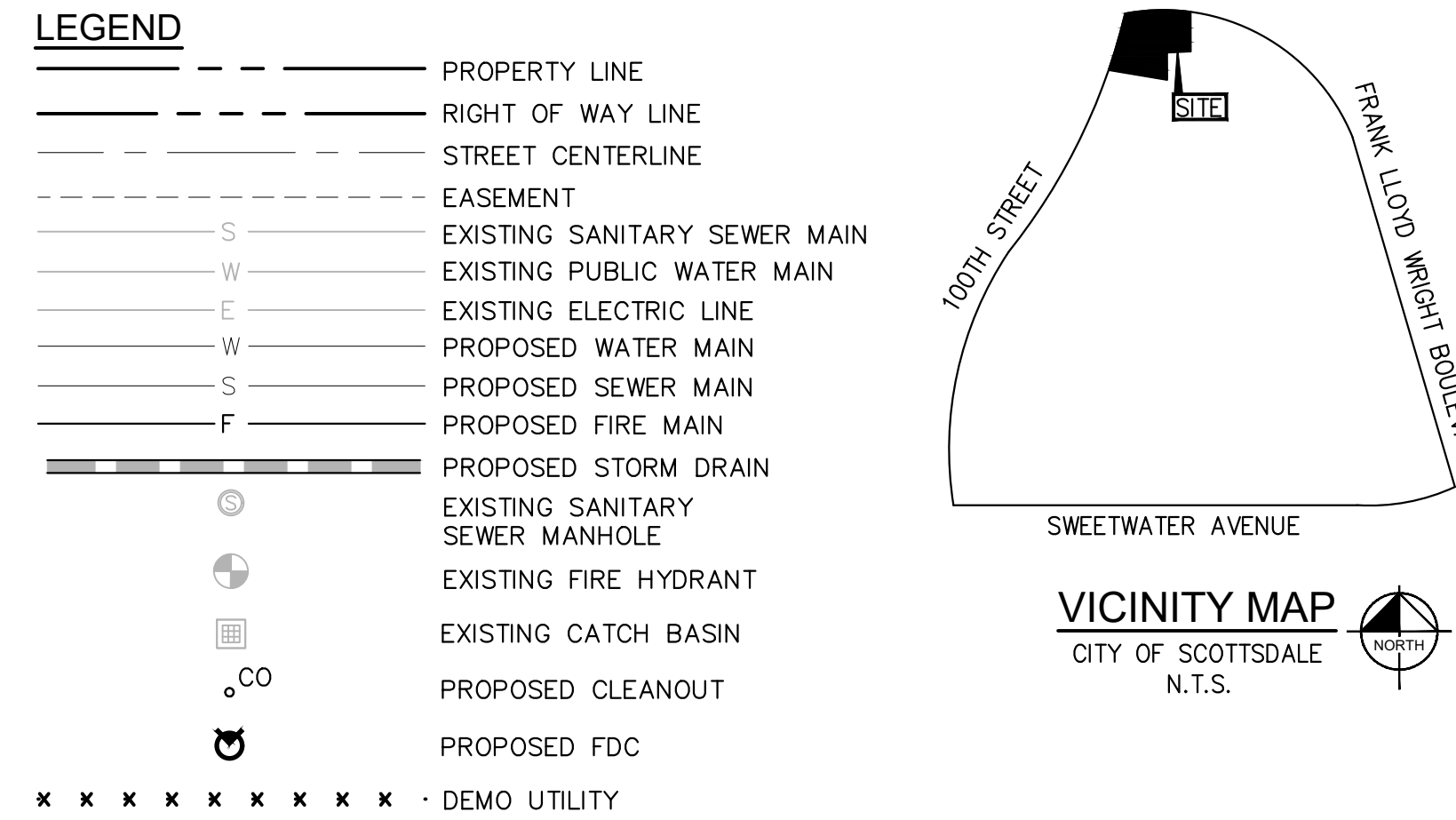
1. STATION AND OFFSET BASED ON FRANK LLOYD WRIGHT BOULEVARD CENTERLINE.
2. ALL VALVES SHALL BE FLANGED TO TEES, BENDS, AND CROSSES.
3. ADD 1400 TO ALL ELEVATIONS.
4. ALL 8" PIPE SHALL HAVE 3' MINIMUM COVER.



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UT-3
3 OF 4 SHEETS

K:\NEW_Civil\Hearings Scottsdale\CADD\UT.dwg, layout:UT-4 Feb. 20, 2024 - 10:25am ally.fedor



- (1) INSTALL 8" DUCTILE IRON WITH POLYWRAP PRESSURE CLASS 350 WATERLINE WITH BEDDING AND BACKFILL PER EPCOR STD DET. 350-1. LENGTH PER PLAN. 3' MIN COVER.
- (4) INSTALL 4" D.I. WATER SERVICE LINE, MIN. CLASS 350. 3' MINIMUM COVER, LENGTH PER PLAN.
- (6) INSTALL 6" DUCTILE IRON WITH POLYWRAP PRESSURE CLASS 350 WATERLINE WITH BEDDING AND BACKFILL PER MAG SPEC 601. LENGTH PER PLAN.
- (9) INSTALL FIRE HYDRANT ASSEMBLY AND VALVE COMPLETE PER MAG STD DET 360-1. PROVIDE MIN. CLEARANCE PER MAG STD DET 362. INSTALL 6-INCH D.I. FIRE LINE, MORTAR LINED PER MAG SPEC 750 WITH POLYWRAP CORROSION PROTECTION PER MAG SPEC 610.5, BEDDING AND BACKFILL PER MAG SPECS. 4' MINIMUM COVER REQUIRED. LENGTH PER PLAN.
- (10) INSTALL 3" WATER METER BOX PER MAG STD DET 345-1 AND COS STD DET 2345.
- (12) INSTALL 8"x6" TEE WITH RESTRAINED JOINTS PER COS DET DET 2342-2 AND MAG STD DET 303.
- (19) INSTALL 8" GATE VALVE PER MAG STD DET 391-1 TYPE C AND COS STD DET 2770.
- (20) INSTALL 6" GATE VALVE PER MAG STD DET 391-1 TYPE C AND COS STD DET 2770.
- (23) CUT AND CONNECT TO EXISTING WATER LINE AT 8" 90° BEND WITH RESTRAINED JOINTS PER COS STD DET 2342-2 AND MAG STD DET 303.
- (24) INSTALL 8" 22° BEND WITH RESTRAINED JOINTS PER COS STD DET 2342-2. AND MAG STD DET 303.
- (30) CUT AND INSTALL 8" 45° BEND WITH RESTRAINED JOINTS PER COS STD DET 2342-2. AND MAG STD DET 303.
- (31) INSTALL 2" WATER METER BOX PER MAG STD DET 345-1 AND COS STD DET 2345.
- (32) INSTALL 8"x3" TEE WITH RESTRAINED JOINTS PER COS DET DET 2342-2 AND MAG STD DET 303.
- (34) INSTALL 3" GATE VALVE PER MAG STD DET 391-1 TYPE C AND COS STD DET 2770.

- ① INSTALL 2" COPPER TYPE 'K' DOMESTIC WATER SERVICE WITH BEDDING AND BACKFILL PER MAG SPEC 601. LENGTH PER PLAN. 3' MIN COVER.
- ③ INSTALL 2" BACKFLOW PREVENTOR PER COS STD DET 2353.
- ⑤ DOMESTIC WATER BUILDING CONNECTION, REF MEP PLANS FOR CONTINUATION.
- ⑥ INSTALL 2" GATE VALVE PER COS STD DET 2770 AND PER MAG STD DET 391-1, TYP C
- ⑧ FIRE LINE BUILDING CONNECTION TO WITHIN 5' OF BUILDING. REF MEP PLANS FOR CONTINUATION.
- ⑩ INSTALL 3" BACKFLOW PREVENTOR PER COS STD DET 2353.
- ⑪ INSTALL 2"x2" COPPER TEE.
- ⑫ INSTALL 4" D.I. WATER SERVICE LINE, MIN. CLASS 350. 3' MINIMUM COVER, LENGTH PER PLAN.
- ⑬ INSTALL 6" DUCTILE IRON WITH POLYWRAP PRESSURE CLASS 150 FIRELINE WITH BEDDING AND BACKFILL PER MAG SPEC 601. LENGTH PER PLAN
- ⑮ INSTALL 4" 90° BEND WITH THRUST BLOCKS PER MAG STD DET 391 AND NFPA 24.

2. INSTALL 8" P.V.C. SDR 35 SANITARY SEWER SERVICE LINE, BEDDING AND BACKFILL PER MAG SPEC 601. LENGTH AND SLOPE PER PLAN.
3. CONNECT TO BUILDING 2-WAY CLEANOUT, INVERT PER PLAN. REF MEP PLANS FOR CONTINUATION.
6. INSTALL INLINE 4"x8" SEWER WYE.
7. INSTALL 6" P.V.C SDR 35 SANITARY SEWER LATERAL, BEDDING AND BACKFILL PER MAG SPEC 601, LENGTH AND SLOPE PER PLAN.
9. INSTALL 60" SANITARY SEWER MANHOLE PER MAG STD DET 420-1. MANHOLE SHALL HAVE 30" FRAME AND COVER PER COS STD DET 2421. RIM AND INVERT PER PLAN.

1. STATION AND OFFSET BASED ON FRANK LLOYD WRIGHT BOULEVARD CENTERLINE.
2. ALL VALVES SHALL BE FLANGED TO TEES, BENDS, AND CROSSES.
3. ADD 1400 TO ALL ELEVATIONS.
4. ALL 8" PIPE SHALL HAVE 3' MINIMUM COVER.



UTILITY PLAN

SCOTTSDALE, ARIZONA

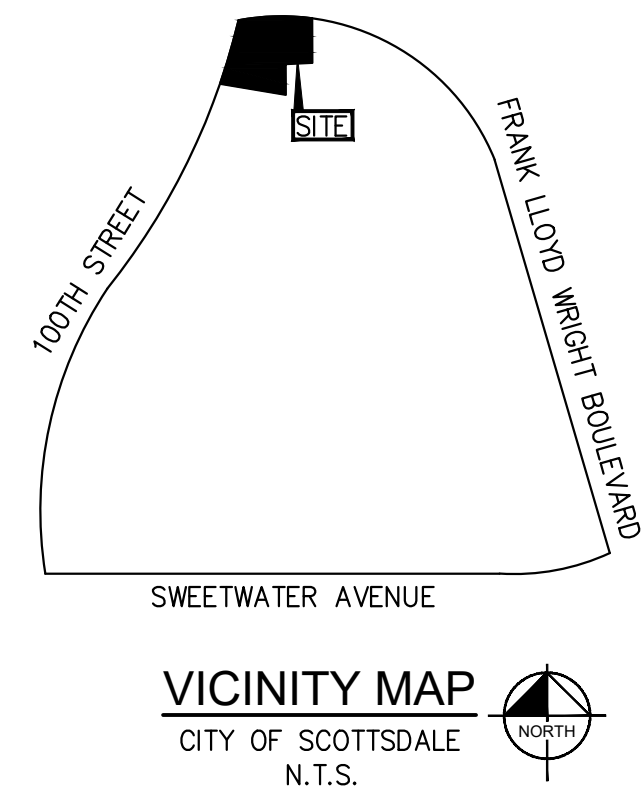
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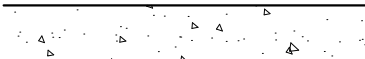
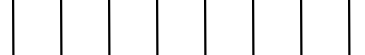
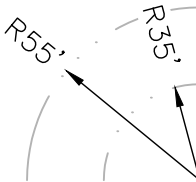
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UT-4
4 OF 4 SHEETS

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LEGEND	
	CONCRETE HARDSCAPE
	PROPERTY LINE
	BUILDING SETBACK LINE
	PROPOSED CONCRETE SIDEWALK
	PROPOSED CONCRETE CROSSWALK
F	FULL ACCESS DRIVEWAY
	REFUSE TURNING RADIUS
	REFUSE ROUTE



HEADWATERS GROUP
WHERE GREAT THINKING MEETS

SEC FRANK LLOYD WRIGHT BOULEVARD & 100TH STREET
REFUSE PLAN
SCOTTSDALE, ARIZONA

PROJECT No. 291753000
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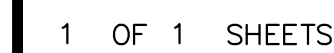
REGISTERED PROFESSIONAL ENGINEER (Civil)
 CERTIFICATE NO.
 47183
 LISTER MARGARETS
 Christopher J. Williams
 ARIZONA, U.S.A.
 Expires 12/31/24

REFP.dwg

REFP

1 OF 1 SHEETS

K:\EAW_Civil\Headwaters Scottsdale\CADD Site Plan Worksheet.dwg Layout: SITE PLAN WORKSHEET Feb 20, 2024 - 10:26am oillyfebor
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