

[illegible]

GRADING AND DRAINAGE CONSTRUCTION NOTES

- (1) NYLOPLAST LANDSCAPE AREA DRAIN PER MAG STD DET 535, GRATE AND INVERT ELEVATIONS PER PLAN.
- (2) HDPE STORM DRAIN PIPE, LENGTH, SIZE, AND SLOPE PER PLAN.
- (3) HDPE STORM DRAIN BEND, INVERT AND ANGLE PER PLAN. SIZE TO MATCH ADJOINING PIPES.
- (4) HDPE STORM DRAIN TEE, INVERTS PER PLAN. SIZE TO MATCH ADJOINING PIPES.
- (8) 48" STORM DRAIN MANHOLE, PER MAG STD DET 520.
- (9) TYPE 'E' CATCH BASIN PER MAG STD DET 534, GRATE AND INVERT ELEVATIONS PER PLAN.
- (15) 3' WIDE CONCRETE VALLEY GUTTER.

NOTES:

1. ADD 1500' TO ALL ELEVATIONS.
2. ADD 0.5' TO PAVEMENT (P) ELEVATIONS TO OBTAIN TOP OF CURB ELEVATIONS, UNLESS OTHERWISE NOTED.
3. ALL SPOT ELEVATIONS ARE FINISHED GRADE PAVEMENT (P), GUTTER/GRATE (G), CONCRETE (C) OR SIDEWALK (SW) ELEVATIONS UNLESS OTHERWISE NOTED.

CIVIL ENGINEER

KIMLEY-HORN
7740 N. 16TH STREET
SUITE 300
PHOENIX, AZ 85020
PH: (602) 944-5500
CONTACT: GARRETT FRAME, PE

DEVELOPER/OWNER

THE DINERSTEIN COMPANY
1010 S. COAST HIGHWAY 101, STE 106
ENCINITAS, CA 92024

LAND SURVEYOR

SURVEY INNOVATION GROUP, INC
22425 N. 16TH STREET, SUITE 1
PHOENIX, ARIZONA 85024
PH: (480) 922-0780
CONTACT: MICHAEL A. BANTA, RLS

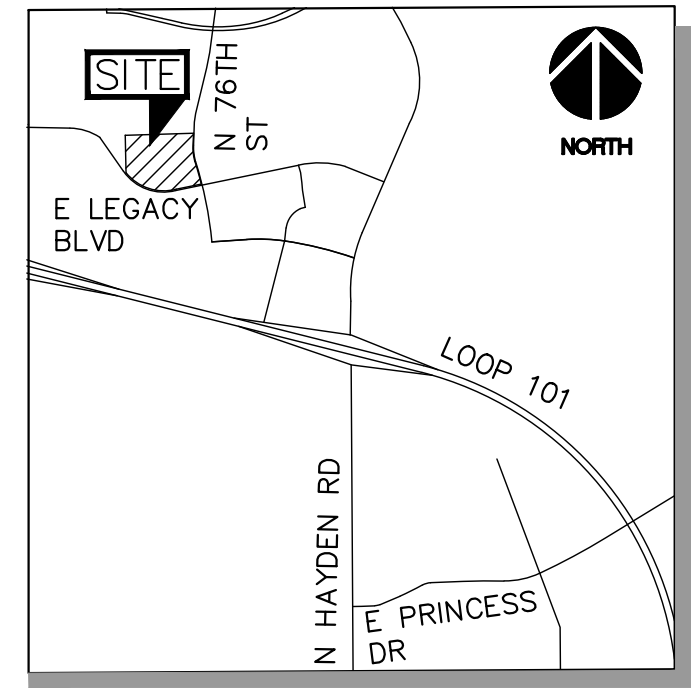
ARCHITECT

KTGY ARCHITECTURE + PLANNING
17911 VON KARMAN AVE, STE 200
IRVINE, CA 92614
PH: (949) 851-2133

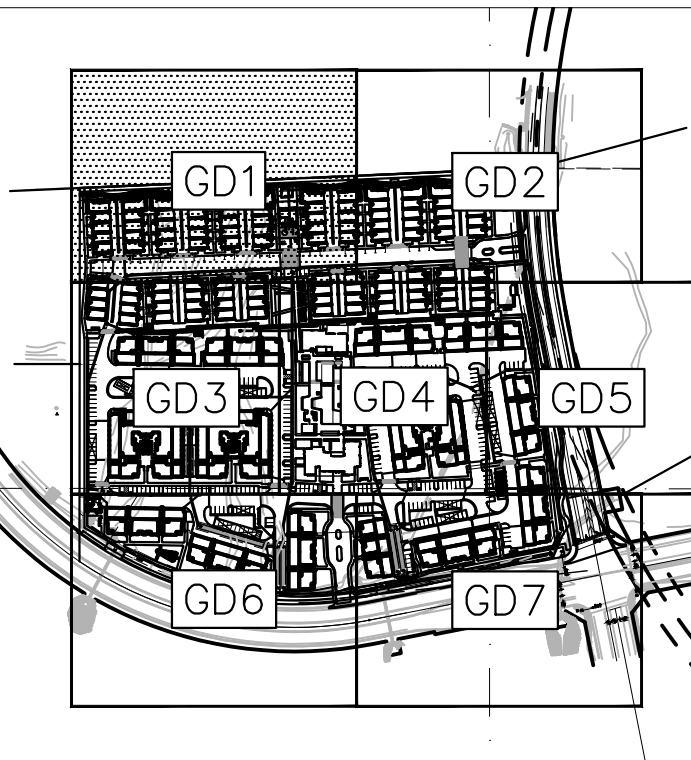
FLOOD INFORMATION

ACCORDING TO THE FLOOD INSURANCE RATE MAP #04013C1320 L, DATED 10/16/2013, THIS PROPERTY IS LOCATED IN FLOOD ZONE "AO" IS DEFINED AS AREAS WITH BASE FLOOD ELEVATION OR DEPTH. (DEPTH1 FEET)(VEL 3 FEET/SECOND)

THE LOWEST FLOOR ELEVATION(S) AND/OR FLOOD PROOFING ELEVATION(S) ON THIS PLAN ARE SUFFICIENTLY HIGH TO PROVIDE PROTECTION FROM FLOODING CAUSED BY A 100-YEAR STORM, AND ARE IN ACCORDANCE WITH SCOTTSDALE REVISED CODE, CHAPTER 37 - FLOODPLAIN AND STORMWATER REGULATION.



VICINITY MAP
SCOTTSDALE, AZ
N.T.S.



KEY MAP
N.T.S.



Flood Information note expanded to state design is only valid with LOMR approval, matching drainage report.

BENCHMARK

PER SURVEY INNOVATION GROUP, THE BENCHMARK IS:
FOUND 2 1/2" STEEL PIPE 0.15' UP WITH 3 1/4"
BLM BRASS CAP STAMPED "T4N R4E 1/4 S26 S35
1995"

ELEVATION = 1598.718 (NAVD88)

BASIS OF BEARING

PER SURVEY INNOVATION GROUP, THE BASIS OF BEARING IS THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 26, TOWNSHIP 4 NORTH, RANGE 4 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, AS SHOWN IN BOOK 693, PAGE 3 MARICOPA COUNTY RECORDS.

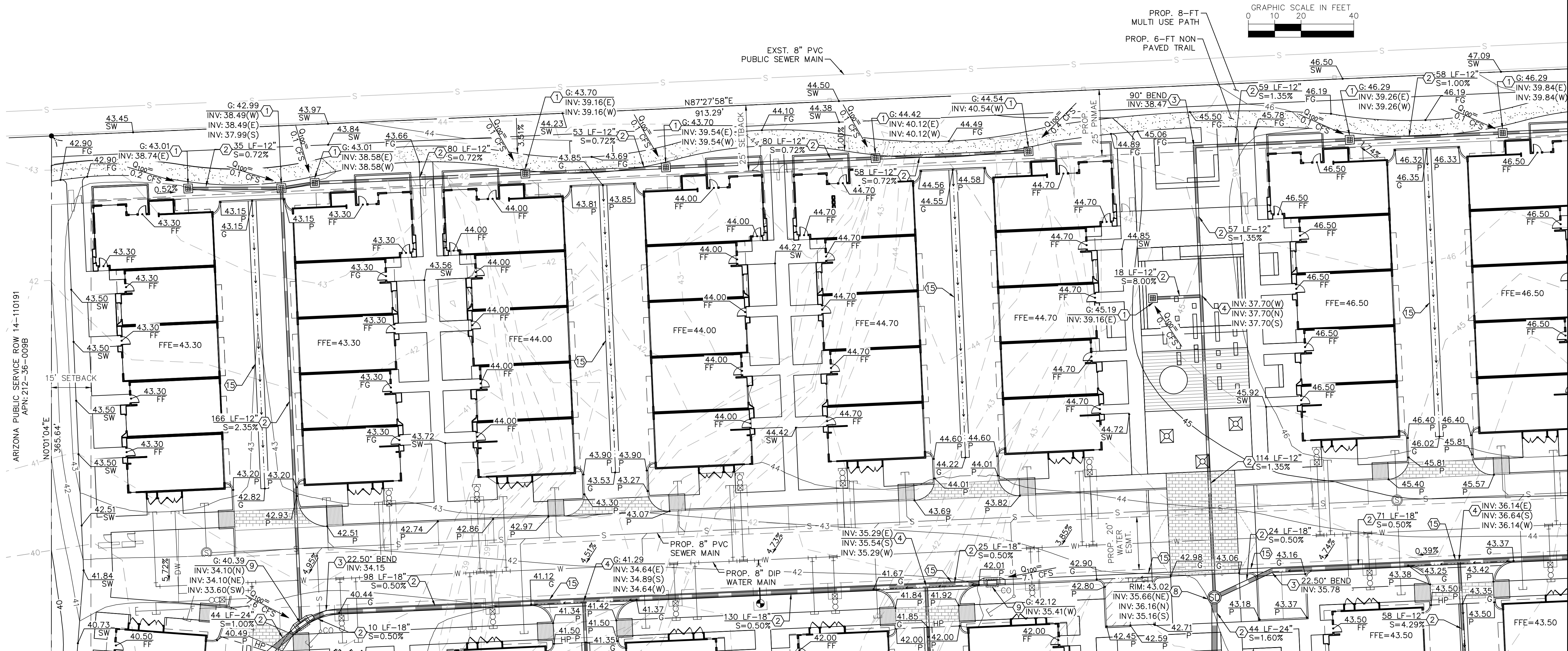
SAID LINE BEARS SOUTH 89 DEGREES 58 MINUTES 20

Please expand this note to reflect note in drainage report and state that this design is valid only in event of successful LOMR Approval

The City approved LOMR has also submitted to FEMA for their review and approval. The FEMA review process is anticipated to take six months or more before final approval or denial is granted. The on-site drainage design assumes that the LOMR will be approved by FEMA based on the recent approval of adjacent LOMRs. The site as currently designed will not meet Zone "AO" requirements and adjustments will be required if the LOMR is denied.

3.0 PROPOSED DRAINAGE PLAN

APN 212-43-601
VILLAGE AT GREYHAWK OWNERS ASSOCIATION
DOCUMENT NO. 2011-0525654 M.C.R.
ZONING: R-5



MATCH LINE: SEE SHEET GD3

MATCH LINE: SEE SHEET GD4

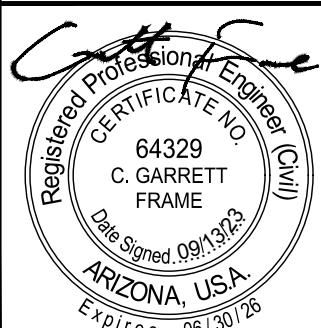
MATCH LINE: SEE SHEET GD2

NWC LEGACY BLVD AND MILLER ROAD

PRELIMINARY GRADING PLAN

SCOTTSDALE, ARIZONA

PROJECT No. 291878000
SCALE (H): 1"=20'
SCALE (V): NONE
DRAWN BY: HDO
DESIGN BY: RMH
CHECK BY: CGF
DATE: 09/13/23



878000Pre-GD.dwg

GD1

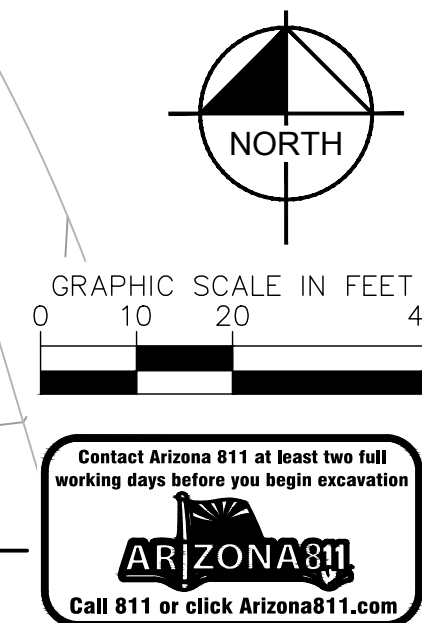
1 OF 7 SHEETS

- ① NYLOPLAST LANDSCAPE AREA DRAIN PER MAG STD DET 535, GRATE AND INVERT ELEVATIONS PER PLAN.
- ② HDPE STORM DRAIN PIPE, LENGTH, SIZE, AND SLOPE PER PLAN.
- ③ HDPE STORM DRAIN BEND, INVERT AND ANGLE PER PLAN. SIZE TO MATCH ADJOINING PIPES.
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- ⑤ TYPE 'D' CATCH BASIN PER MAG STD DET 533. GRATE AND INVERT ELEVATIONS PER PLAN.
- ⑧ 48" STORM DRAIN MANHOLE, PER MAG STD DET 520.
- ⑨ TYPE 'E' CATCH BASIN PER MAG STD DET 534, GRATE AND INVERT ELEVATIONS PER PLAN.
- ⑮ 3' WIDE CONCRETE VALLEY GUTTER.
- ⑰ CATCH BASIN PER ADOT ROADWAY STD DWG C-15.80. GRATE AND INVERT ELEVATIONS PER PLAN.
- ⑳ PROPOSED 6' CONCRETE DRAINAGE CHANNEL.
- ㉑ RGRCP STORM DRAIN PIPE, LENGTH, SIZE, AND SLOPE PER PLAN.

1. ADD 1500' TO ALL ELEVATIONS.
2. ADD 0.5' TO PAVEMENT (P) ELEVATIONS TO OBTAIN TOP OF CURB ELEVATIONS, UNLESS OTHERWISE NOTED.
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MATCH LINE: SEE SHEET GD5



MATCH LINE: SEE SHEET GD1

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- 6 10" DIAMETER CMP UNDERGROUND RETENTION TANKS.
- 7 RETENTION TANK ACCESS RISER.
- 8 48" STORM DRAIN MANHOLE, PER MAG STD DET 520.
- 9 TYPE 'E' CATCH BASIN PER MAG STD DET 534, GRATE AND INVERT ELEVATIONS PER PLAN.
- 10 MAXWELL PLUS OR APPROVED EQUAL DUAL CHAMBER DRYWELL.
- 14 TYPE 'F' CATCH BASIN PER MAG STD DET 535, GRATE AND INVERT ELEVATIONS PER PLAN.
- 15 3' WIDE CONCRETE VALLEY GUTTER.
- 16 PROPOSED 2' CONCRETE DRAINAGE CHANNEL.
- 19 STORM DRAIN CONNECTION TO UNDERGROUND RETENTION TANK. INVERT PER PLAN.
- 22 RETENTION TANK ACCESS RISER WITH GRATED COVER.

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Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
7740 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

NWC LEGACY BLVD AND MILLER ROAD

PRELIMINARY GRADING PLAN

SCOTTSDALE, ARIZONA

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DESIGN BY: RMH

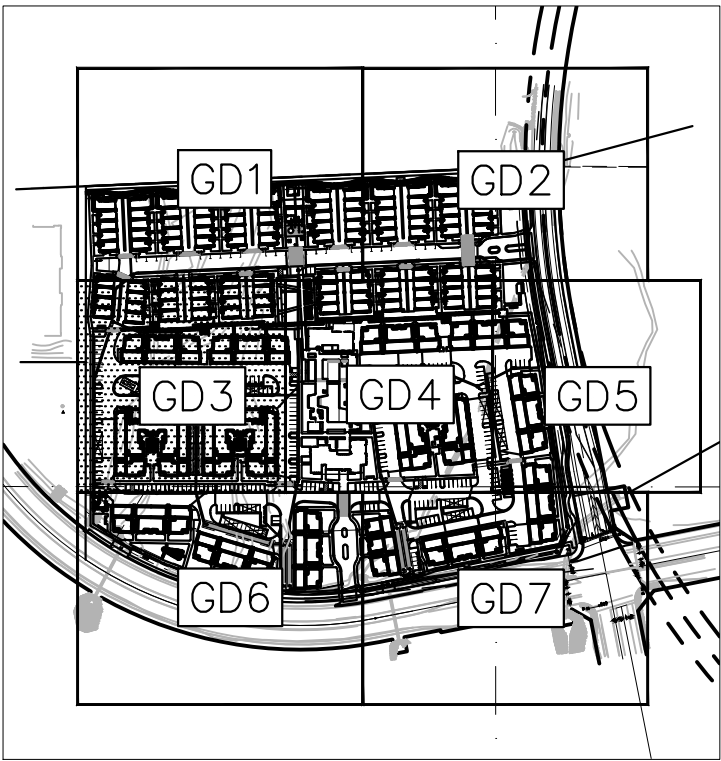
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DATE: 09/13/23

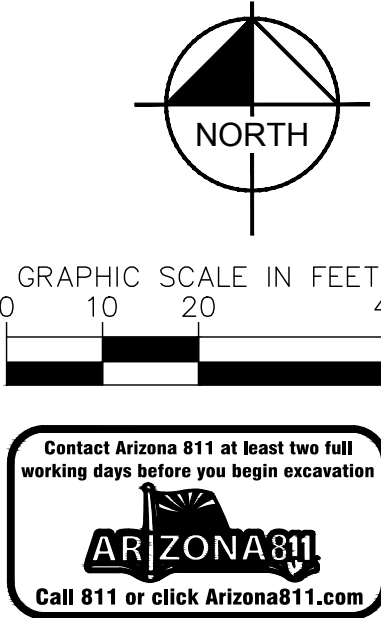


878000Pre-GD.dwg
GD3

3 OF 7 SHEETS



KEY MAP
N.T.S.



MATCH LINE: SEE SHEET GD4

MATCH LINE: SEE SHEET GD6

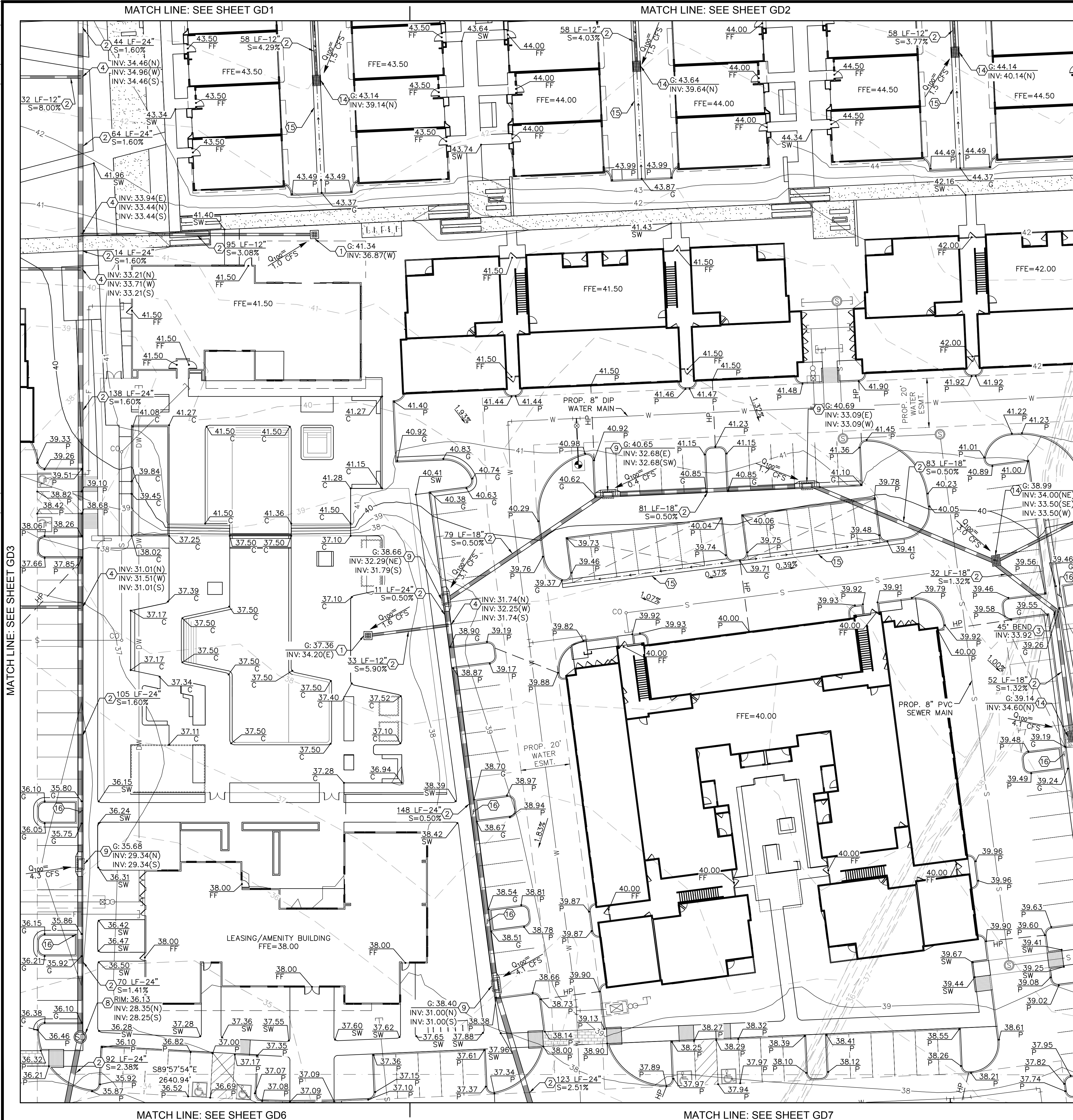
Drain time added to all basin call outs.
Overflow location shown on sheet GD6

Call out drain time
and surface overflow
location and
elevation.

Line is proposed curb.
Call out added to plan.

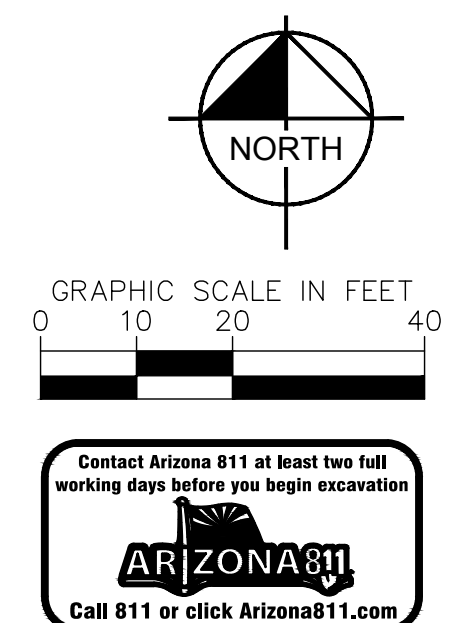
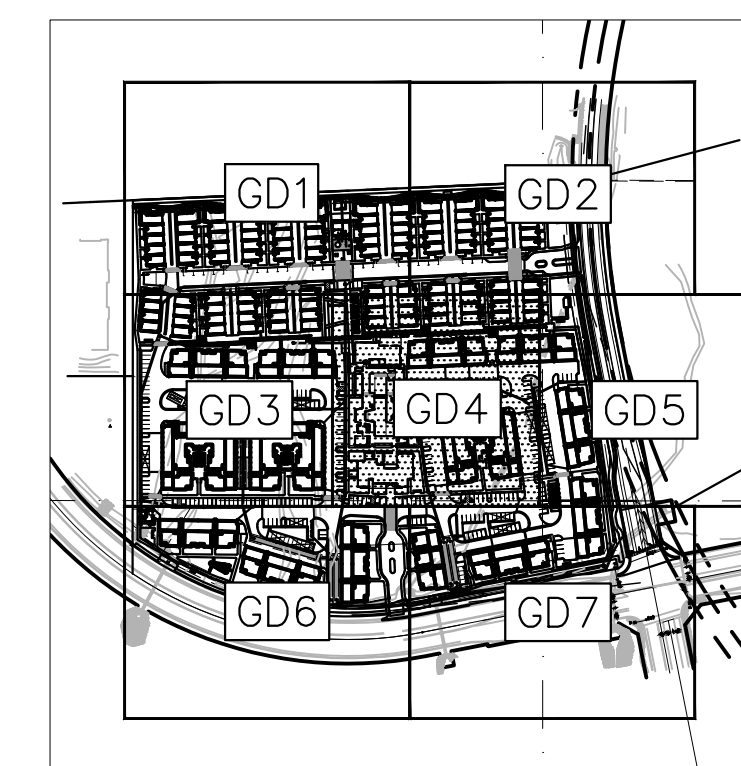
call out what this line
work reflects. Just fly,
walls are not allowed
within drainage
easements.

REV	DESCRIPTION	BY	DATE	APPR
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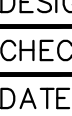
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 - ⑮ 3' WIDE CONCRETE VALLEY GUTTER.
 - ⑮ PROPOSED 2' CONCRETE DRAINAGE CHANNEL.

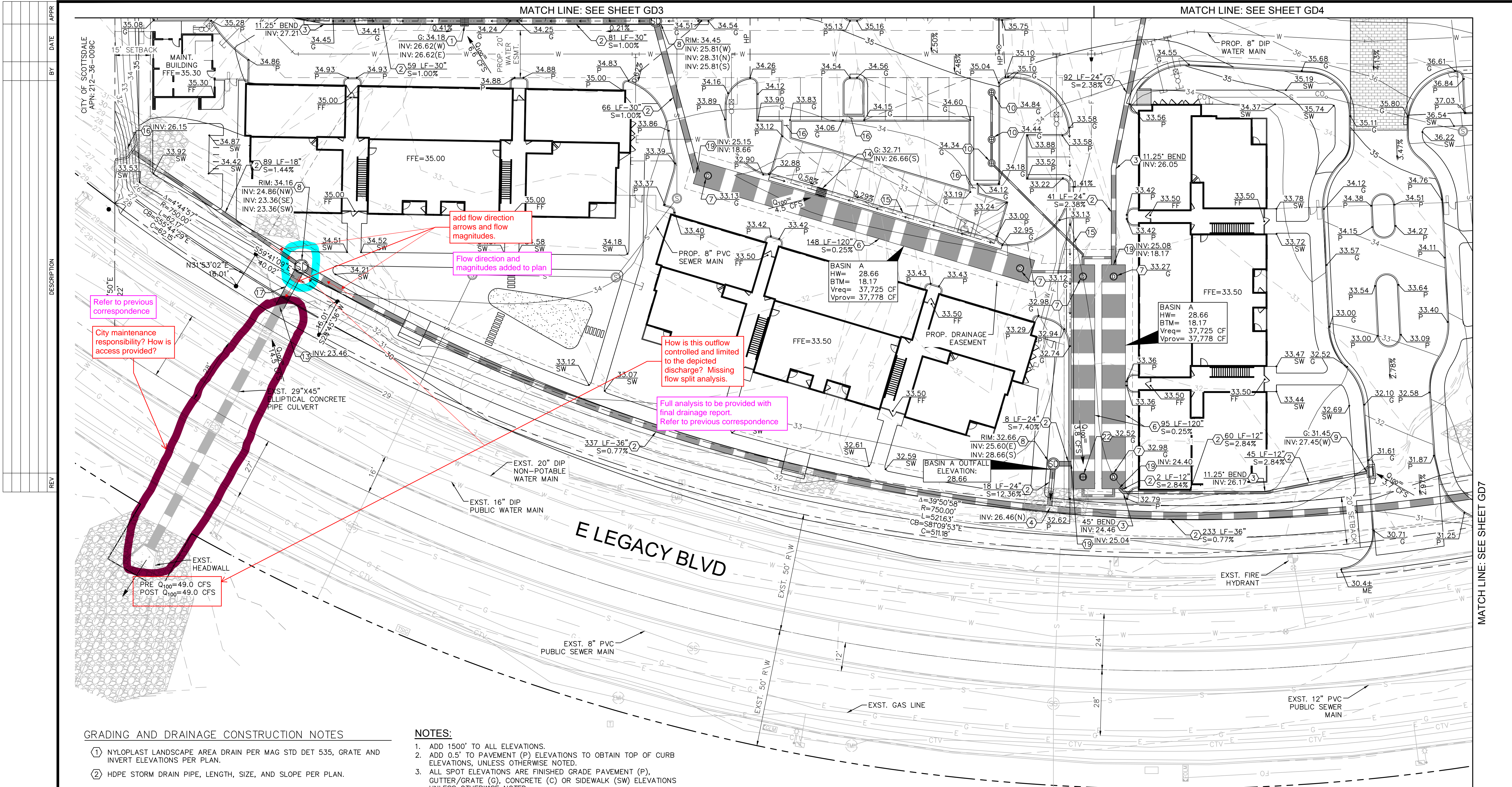
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NWC LEGACY BLVD AND MILLER ROAD
PRELIMINARY GRADING PLAN
SCOTTSDALE, ARIZONA

PROJECT No.	291878000
SCALE (H):	1"=20'
SCALE (V):	NONE
DRAWN BY:	HDO
DESIGN BY:	RMH
CHECK BY:	HDO
DATE:	09/13/23





add flow direction arrows and flow magnitudes.

Flow direction and magnitudes added to plan

Refer to previous correspondence

City maintenance responsibility? How is access provided?

How is this outflow controlled and limited to the depicted discharge? Missing flow split analysis.

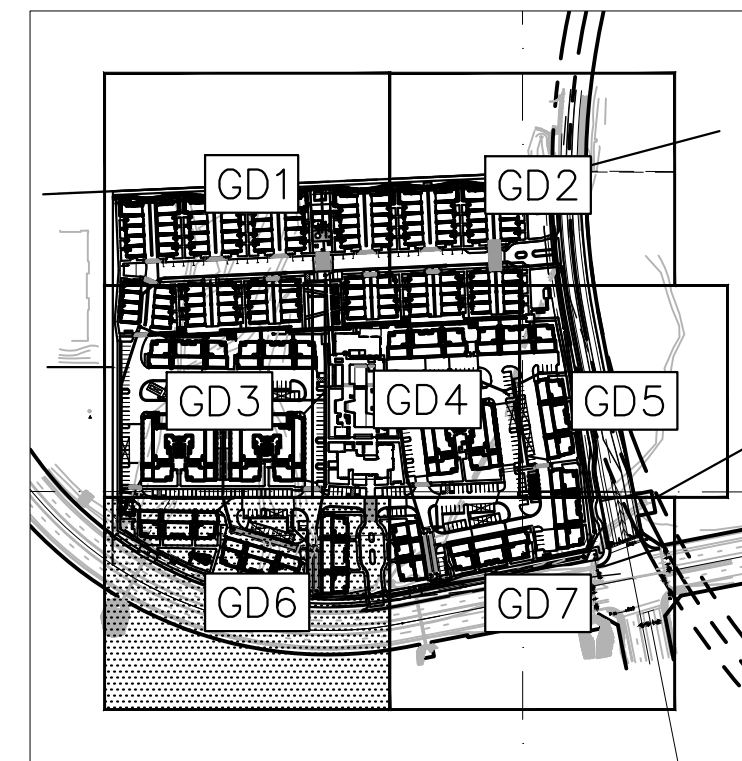
Full analysis to be provided with final drainage report. Refer to previous correspondence

GRADING AND DRAINAGE CONSTRUCTION NOTES

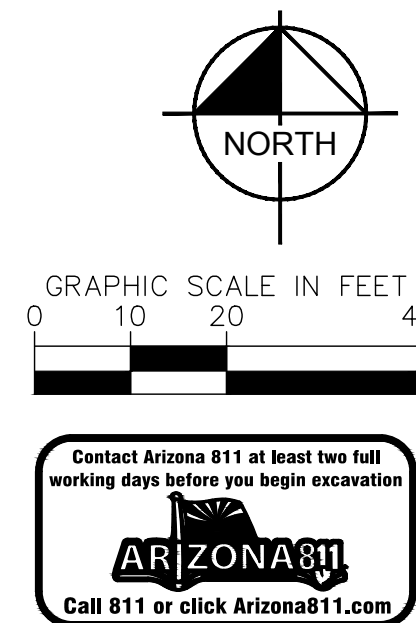
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KEY MAP
N.T.S.



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PRELIMINARY GRADING PLAN
SCOTTSDALE, ARIZONA

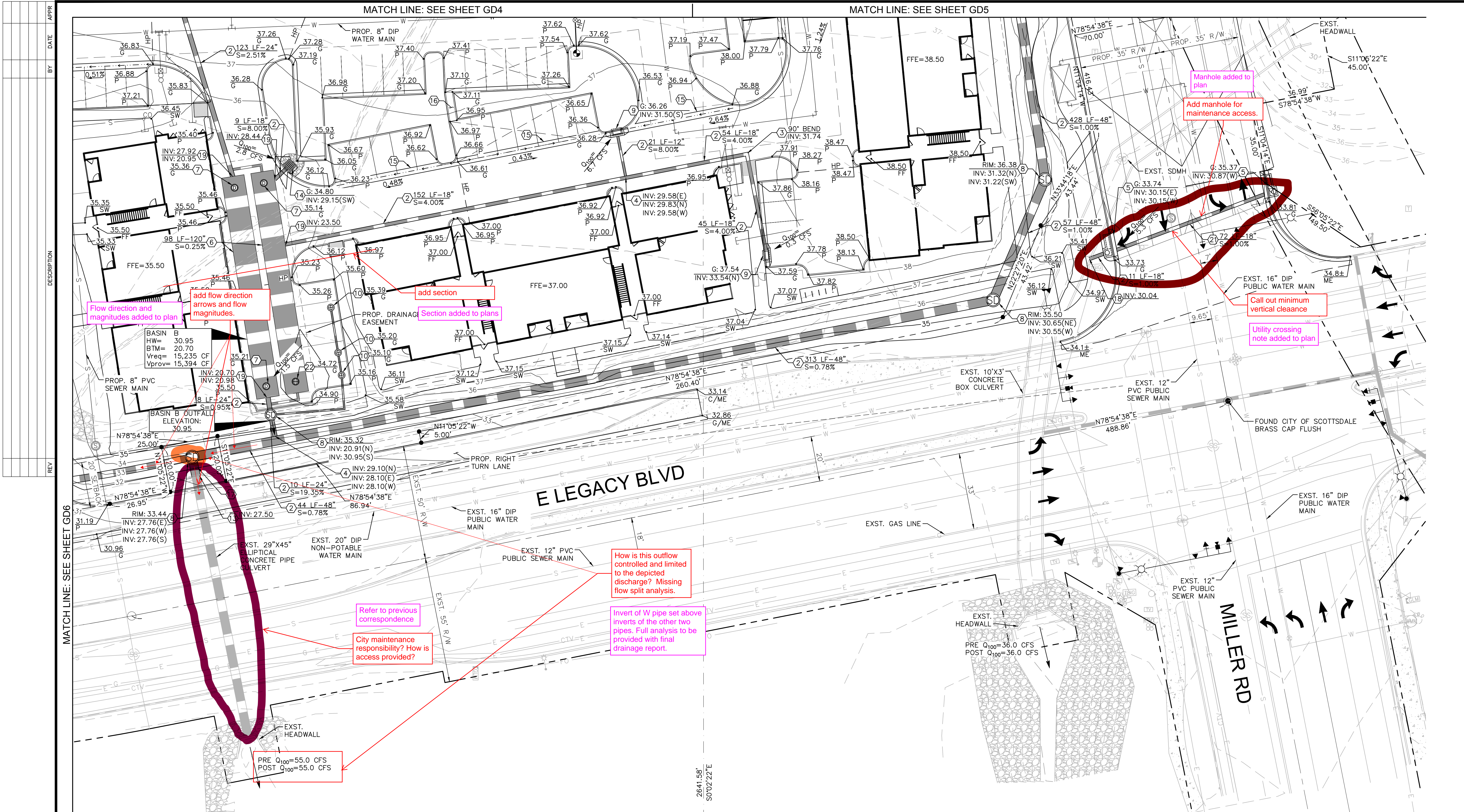
PROJECT No.
291878000

SCALE (H): 1"=20'
SCALE (V): NONE

DRAWN BY: HDO
DESIGN BY: RMH
CHECK BY: CGF
DATE: 09/13/23

CERTIFICATE OF RECORD
64329
C. GARRETT
FRAME
ARIZONA 811
Expires 06/30/26

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GD6
6 OF 7 SHEETS

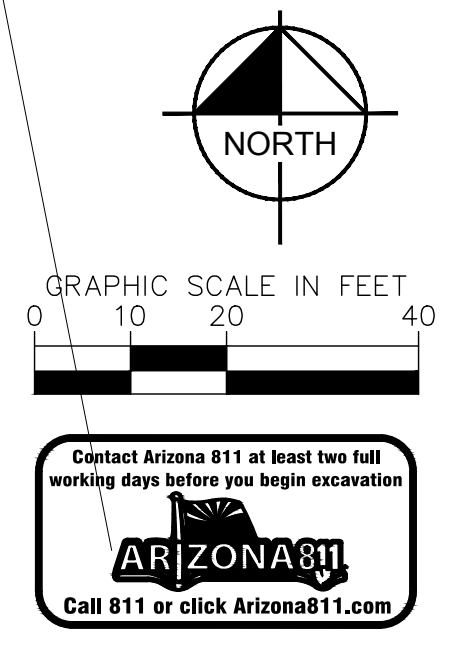
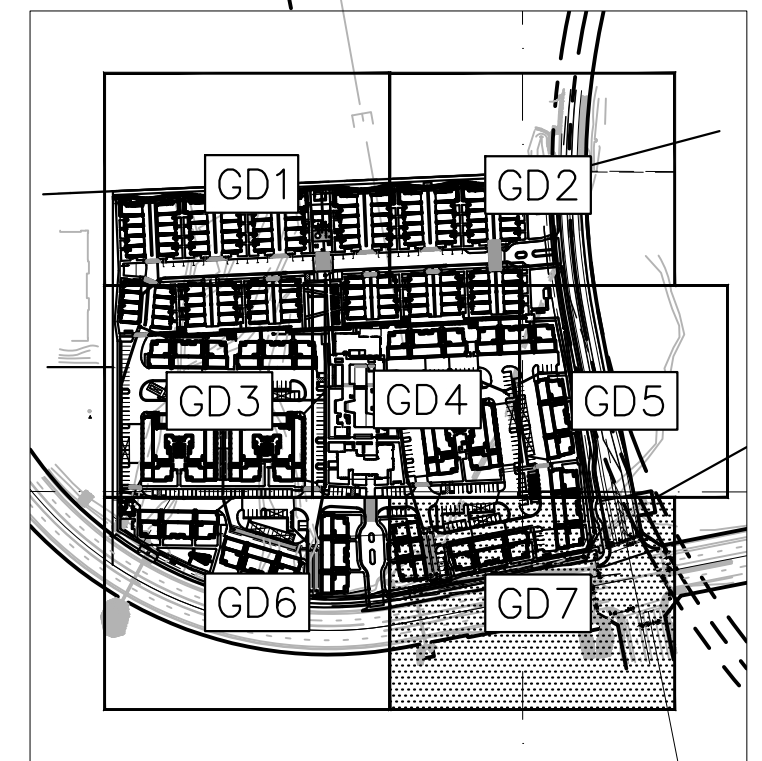


GRADING AND DRAINAGE CONSTRUCTION NOTES

- | | |
|--|--|
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| (7) RETENTION TANK ACCESS RISER. | (18) BORE AND CONNECT TO EXISTING BOX CULVERT. INVERT PER PLAN. |
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Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA 811
Call 811 or click Arizona811.com