

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

August 14, 2018

Diane Hoelzer, P.E.
Mark Goodwin & Associates
PO Box 90606
Albuquerque, NM 87199

RE: Tierra Serena (Glendesto) Subdivision
Revised Grading Plan Stamp Date: 8/9/18
Drainage Supplement Stamp Date: none
Hydrology File: B18D020

Dear Ms. Hoelzer:

Based on the submittal received on 8/10/18, the above referenced submittal cannot be approved for work order until the following are corrected:

1. 100% interception of the 100-yr flow is required. No bypass will be allowed.
2. Provide HGL calculations and stormdrain profile for the revised stormdrain down the manhole at San Pedro/Glendale.
3. Provide street capacity calculations for the 10-yr storm. Demonstrate that it is contained on the asphalt section.
4. Date the drainage report supplement.

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services

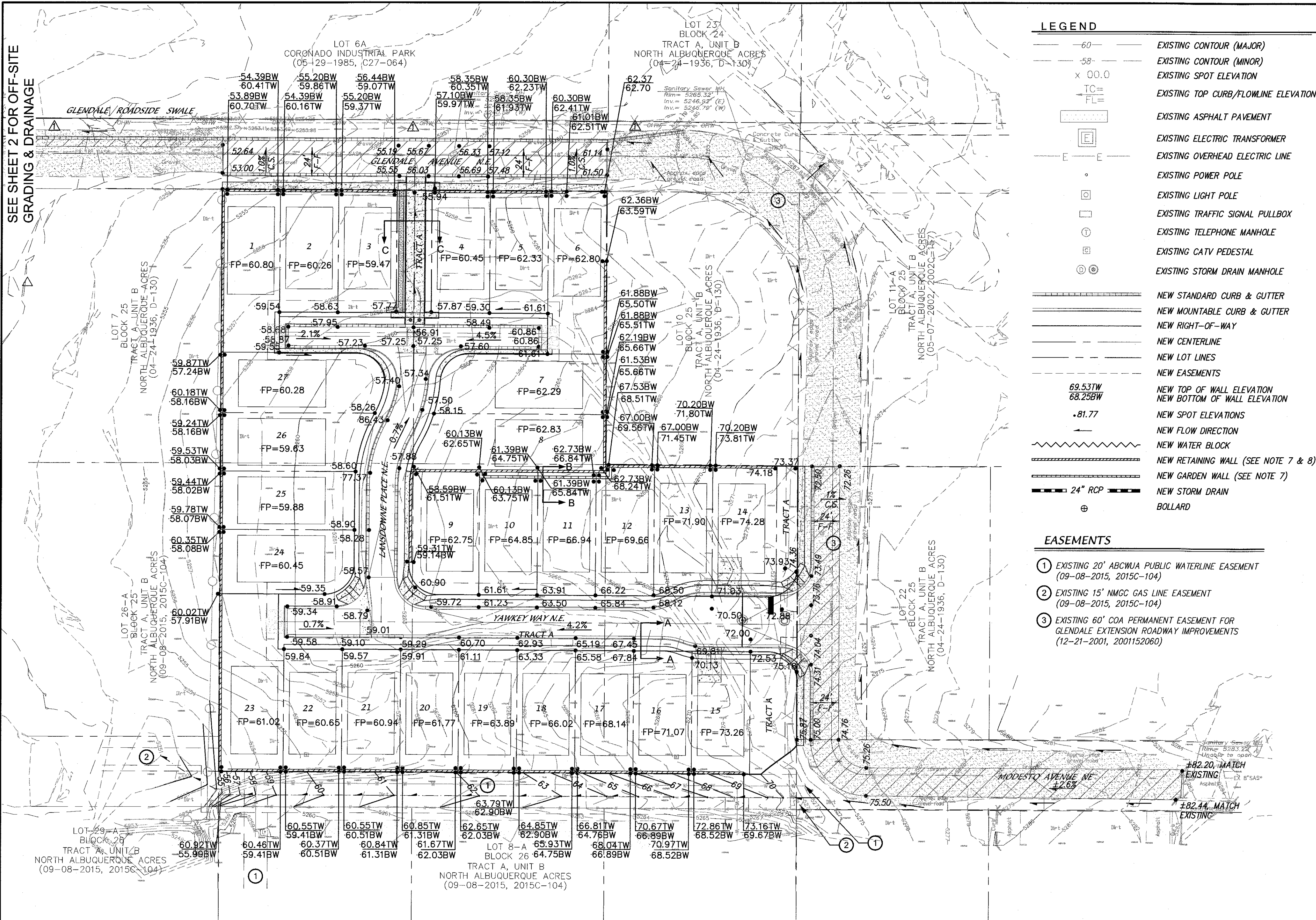
PO Box 1293

Albuquerque

NM 87103

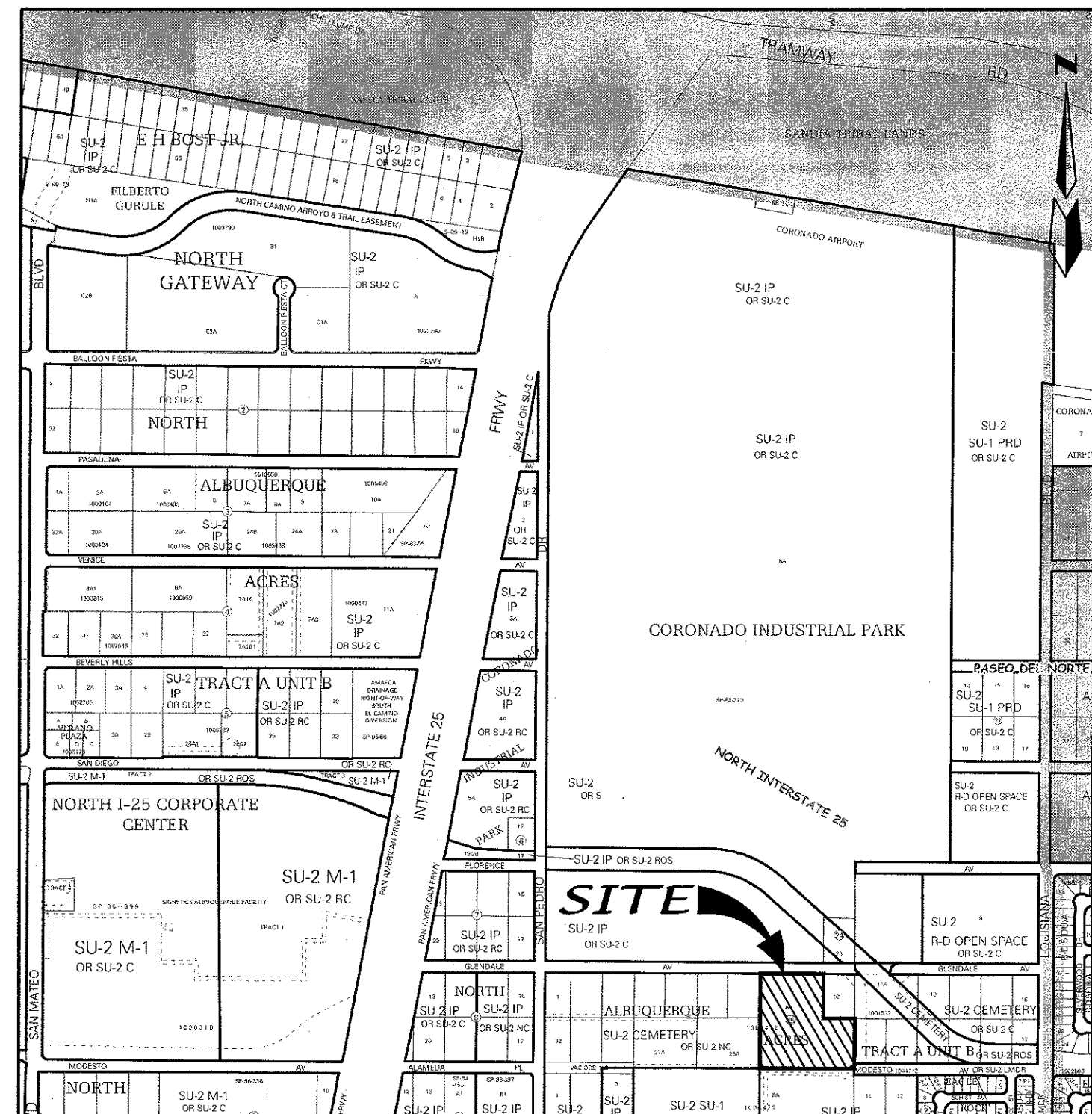
www.cabq.gov

SEE SHEET 2 FOR OFF-SITE
GRADING & DRAINAGE



- LEGEND**
- 60— EXISTING CONTOUR (MAJOR)
 - 58— EXISTING CONTOUR (MINOR)
 - x 00.0 EXISTING SPOT ELEVATION
 - TC= EXISTING TOP CURB/FLOWLINE ELEVATION
 - FL= EXISTING ASPHALT PAVEMENT
 - EXISTING ELECTRIC TRANSFORMER
 - EXISTING OVERHEAD ELECTRIC LINE
 - EXISTING POWER POLE
 - EXISTING LIGHT POLE
 - EXISTING TRAFFIC SIGNAL PULLBOX
 - EXISTING TELEPHONE MANHOLE
 - EXISTING CATV PEDESTAL
 - EXISTING STORM DRAIN MANHOLE
 - NEW STANDARD CURB & GUTTER
 - NEW MOUNTABLE CURB & GUTTER
 - NEW RIGHT-OF-WAY
 - NEW CENTERLINE
 - NEW LOT LINES
 - NEW EASEMENTS
 - NEW TOP OF WALL ELEVATION
 - NEW BOTTOM OF WALL ELEVATION
 - NEW SPOT ELEVATIONS
 - NEW FLOW DIRECTION
 - NEW WATER BLOCK
 - NEW RETAINING WALL (SEE NOTE 7 & 8)
 - NEW GARDEN WALL (SEE NOTE 7)
 - NEW STORM DRAIN
 - BOLLARD

- EASEMENTS**
- EXISTING 20' ABCMUA PUBLIC WATERLINE EASEMENT (09-08-2015, 2015C-104)
 - EXISTING 15' NMGC GAS LINE EASEMENT (09-08-2015, 2015C-104)
 - EXISTING 60' COA PERMANENT EASEMENT FOR GLENDALE EXTENSION ROADWAY IMPROVEMENTS (12-21-2001, 2001I52060)



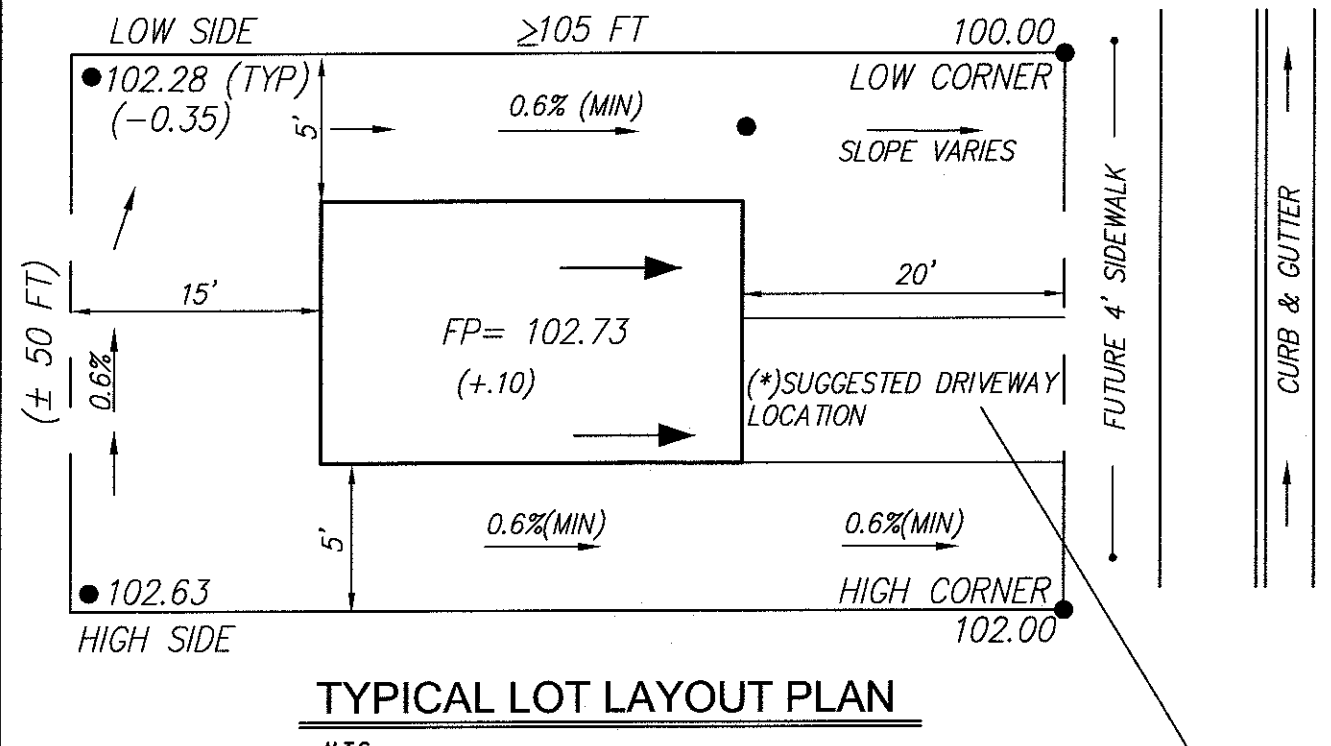
VICINITY MAP (NTS) ZONE ATLAS MAP B-18

LEGAL DESCRIPTION

A TRACT OF LAND SITUATE WITHIN THE ELENA GALLEGOS GRANT, PROJECTED SECTION 12, TOWNSHIP 11 NORTH, RANGE 3 EAST, NEW MEXICO PRINCIPAL MERIDIAN, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, BEING ALL OF LOT 8-A, BLOCK 25, TRACT A, UNIT B, NORTH ALBUQUERQUE ACRES, AS THE SAME IS SHOWN AND DESIGNATED ON SAID PLAT, FILED FOR RECORD IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON SEPTEMBER 8, 2015, IN PLAT BOOK 2015C, PAGE 104, AND CONTAINING 4.7676 ACRES MORE OR LESS.

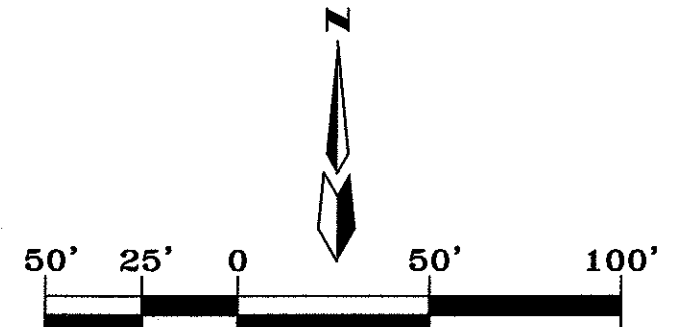
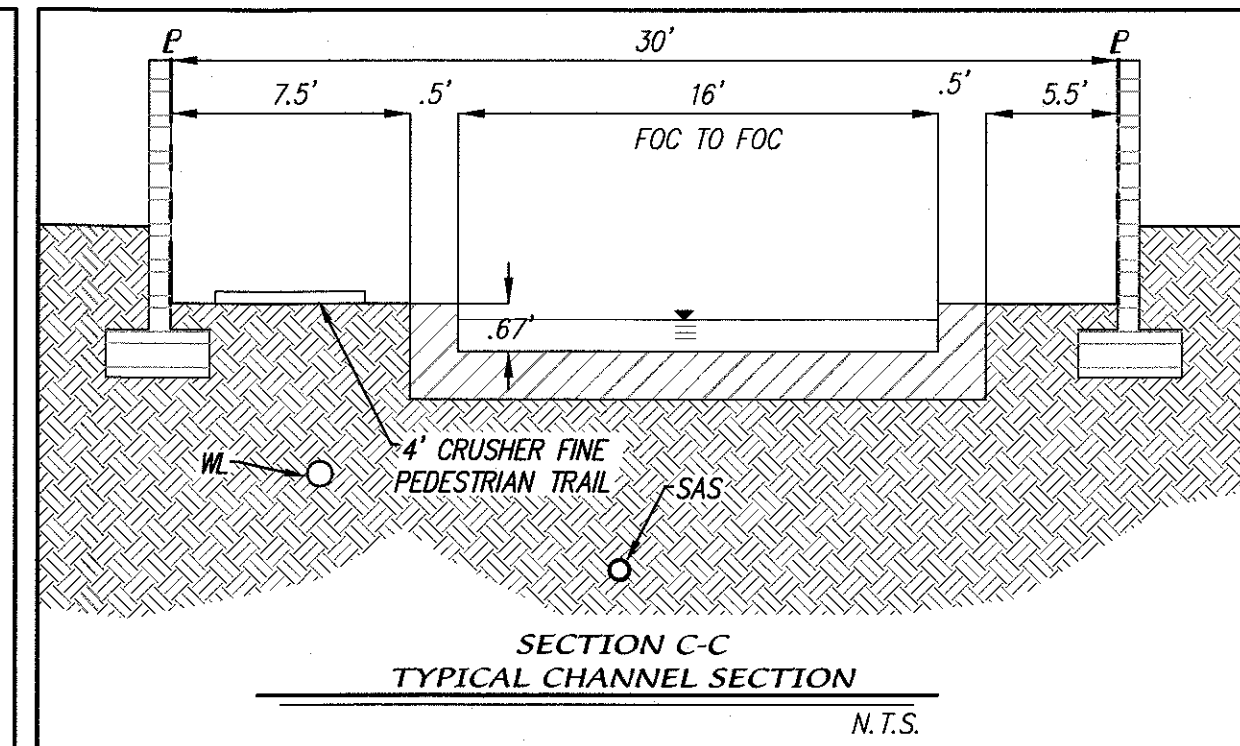
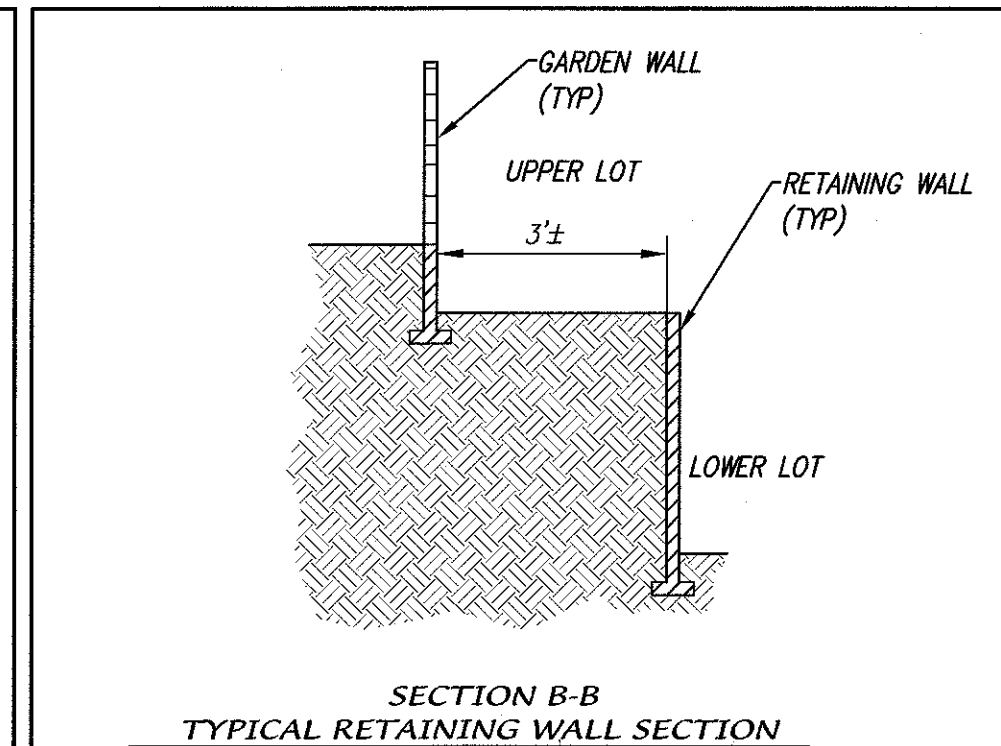
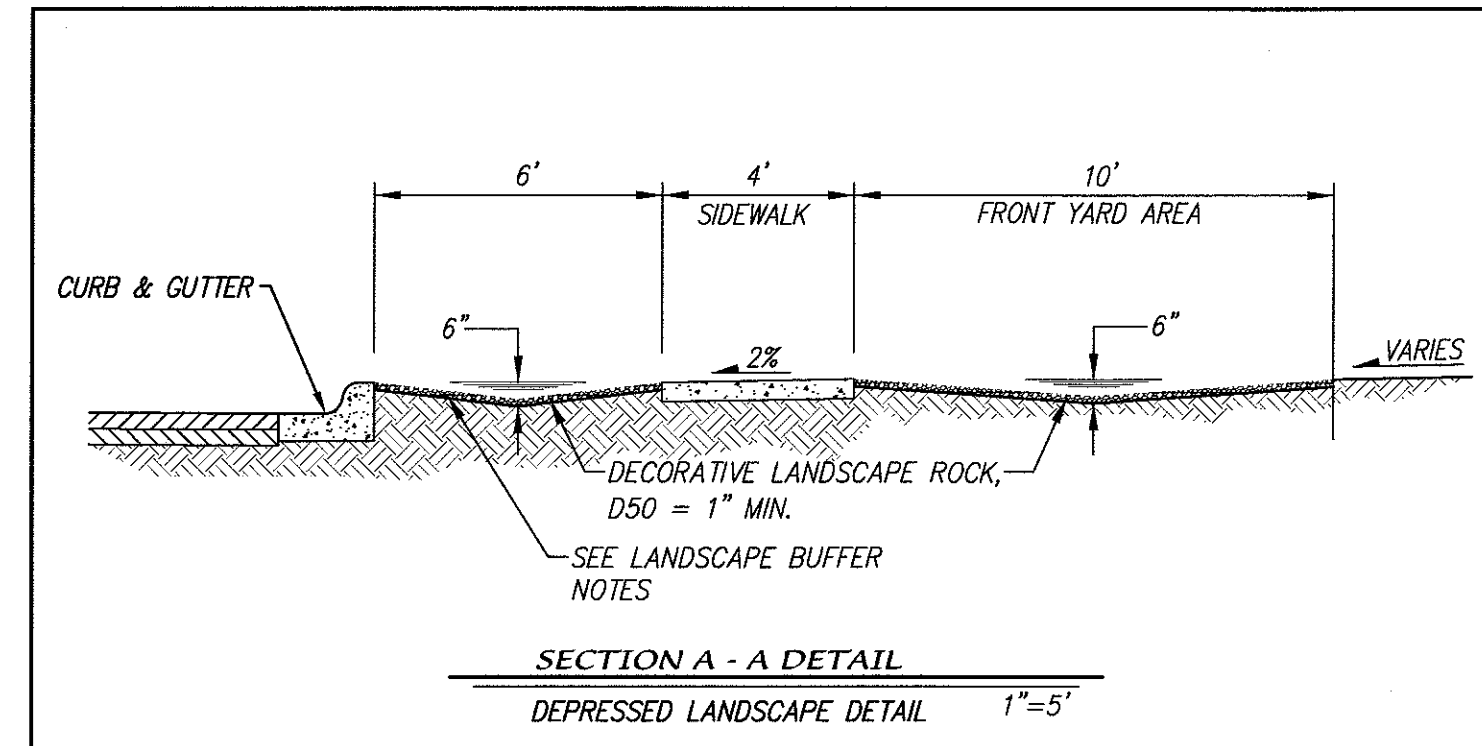
- NOTES**
- CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
 - CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION SHALL GOVERN ALL WORK.
 - THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
 - THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
 - THE EARTHWORK CONTRACTOR SHALL STOCKPILE ENOUGH MATERIAL ADJACENT TO RETAINING WALL LOCATIONS TO BE UTILIZED FOR WALL BACKFILL.
 - SITE DOES NOT LIE IN A 100 YEAR FLOOD ZONE.
 - ALL SITE WALLS SHALL CONFORM TO THE GENERAL HEIGHT AND DESIGN REGULATIONS CONTAINED IN SECTION 14-16-3-19 OF THE CITY ZONING CODE.
 - COMBINATION GARDEN WALL/RETAINING WALL CANNOT EXCEED 8 FEET. IF THE RETAINING WALL IS GREATER THAN 4 FEET, THE DEVELOPER CAN ADD 3:1 SLOPES IN BACKYARD OR A SECOND RETAINING WALL OFFSET FROM THE FIRST ONE.

- LANDSCAPE BUFFER NOTES:**
- SWALE TO BE 6" DEEP WHEN THE DISTANCE BETWEEN BACK OF CURB AND THE SIDEWALK IS 5 FEET.
 - FINAL GRADE OF DIRT TO BE 1 TO 2 INCHES BELOW TOP OF CURB AND TOP OF SIDEWALK GRADE.
 - SURFACE BETWEEN BACK OF CURB AND SIDEWALK TO BE COVERED WITH GRAVEL MULCH (MINIMUM 3/4"), COBBLES OF RIP-RAP. DO NOT FILL ENTIRE SWALE.
 - LANDSCAPE FABRIC IS RECOMMENDED, BUT NOT REQUIRED, BETWEEN THE DIRT AND THE STONE. IF LANDSCAPE FABRIC IS TO BE USED IT IS TO BE PERMEABLE.



(*) SPECIAL NOTE FOR DRIVEWAYS

TO MINIMIZE DRIVEWAY SLOPE ON ALL LOTS WHERE THE FINISHED PAD IS > 2.0 FEET HIGHER THAN THE LOW CORNER OF THE LOT, THE DRIVEWAY SHOULD BE CONSTRUCTED ON THE HIGH SIDE OF THE PAD/LOT.



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CONSULTING ENGINEERS
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ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

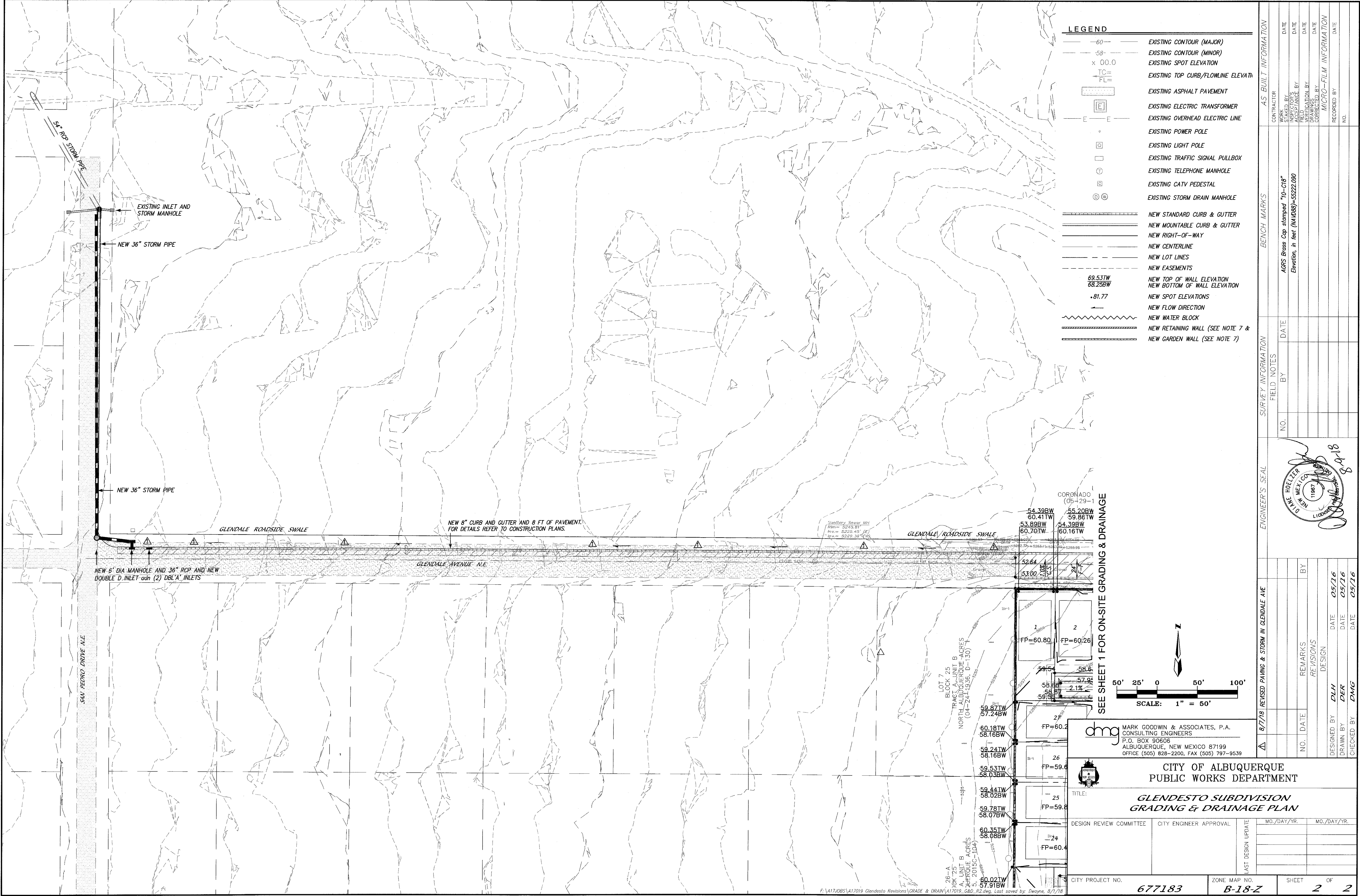
GLENDESTO SUBDIVISION
GRADING & DRAINAGE PLAN

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL

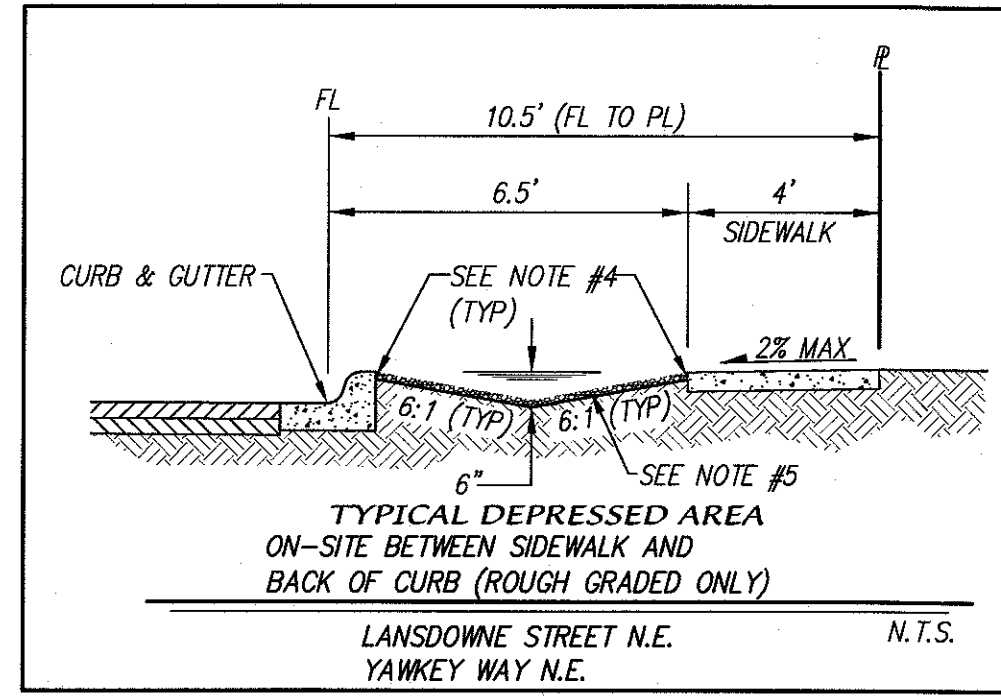
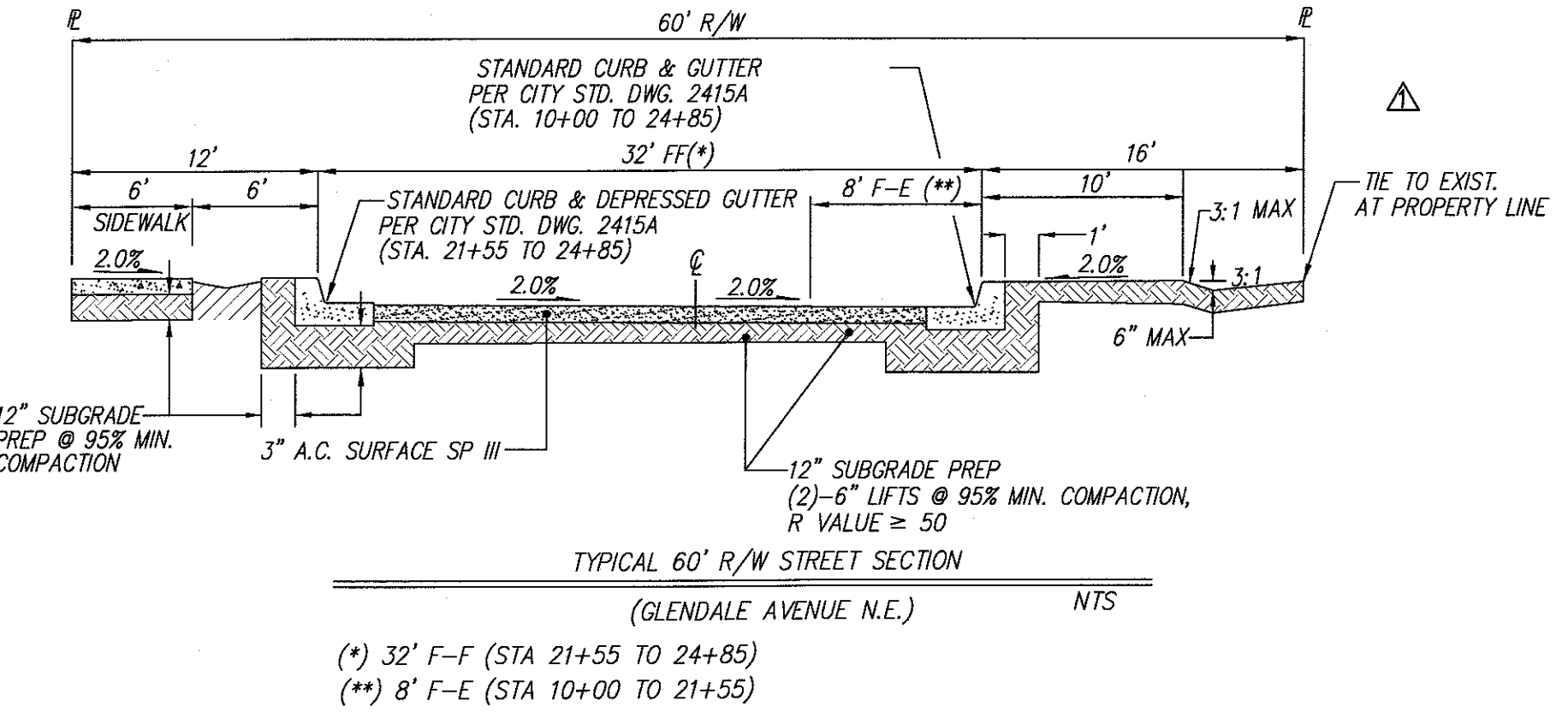
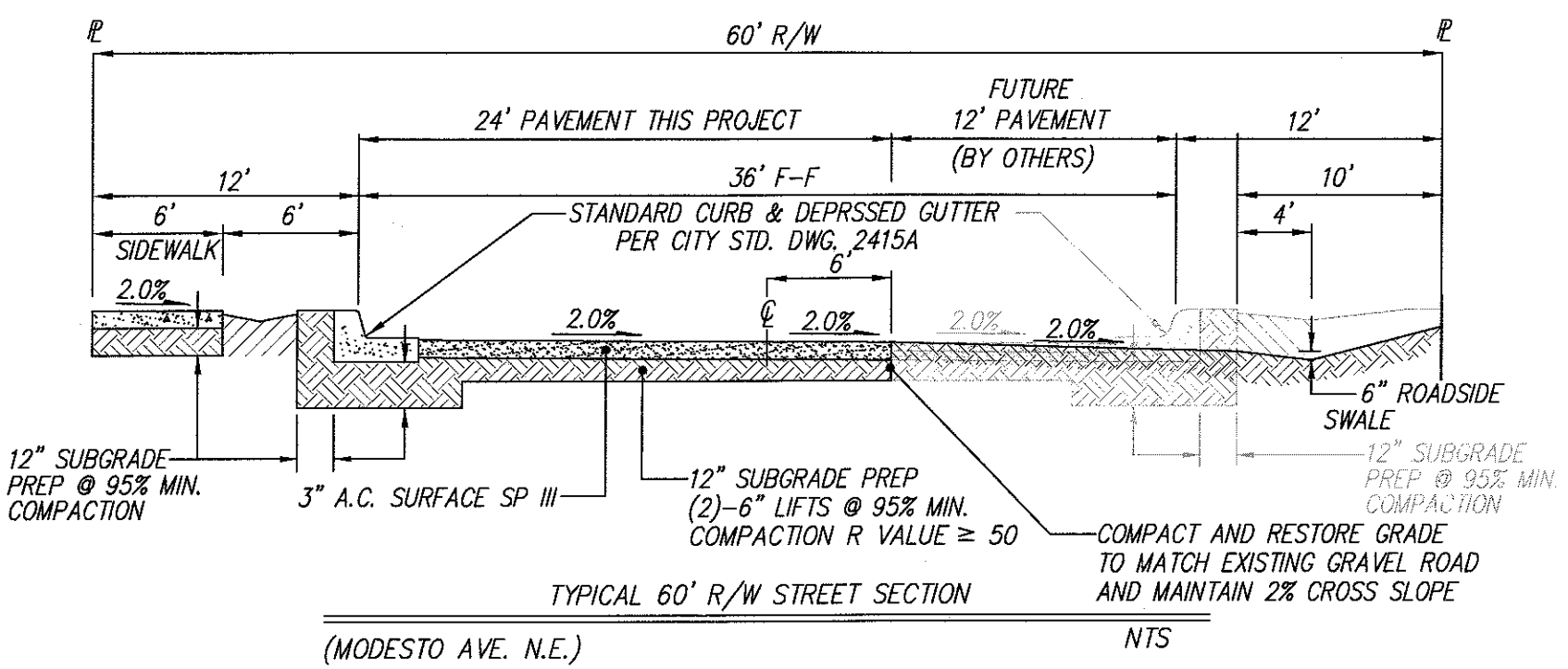
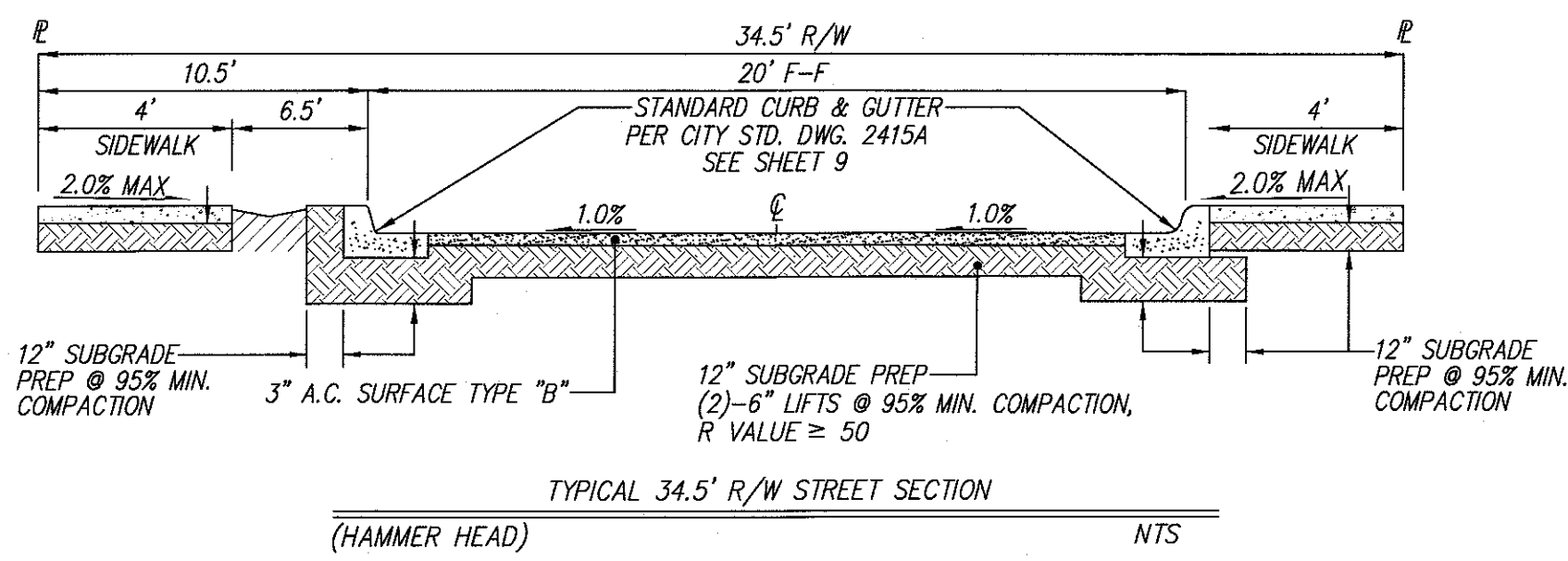
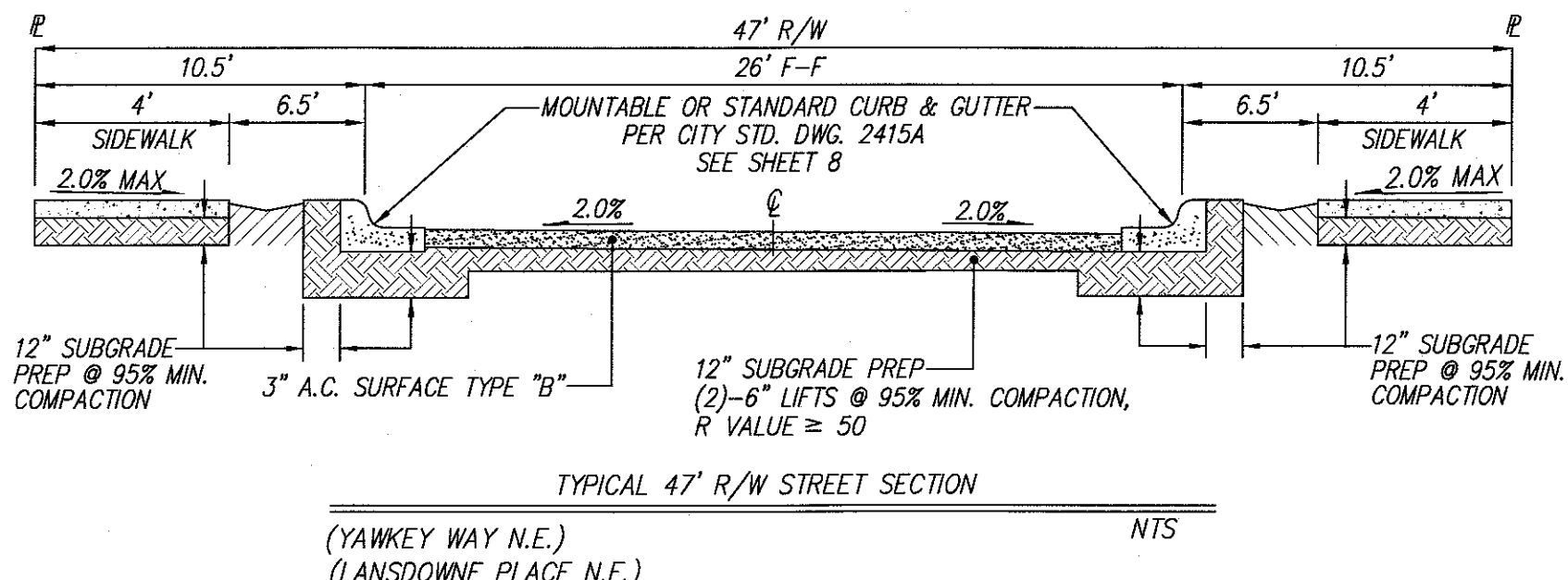
DESIGNED BY **DLH** DATE **05/16**
DRAWN BY **DER** DATE **05/16**
CHECKED BY **DMG** DATE **05/16**

CITY PROJECT NO. **677183** ZONE MAP NO. **B-18-Z** SHEET **1** OF **2**

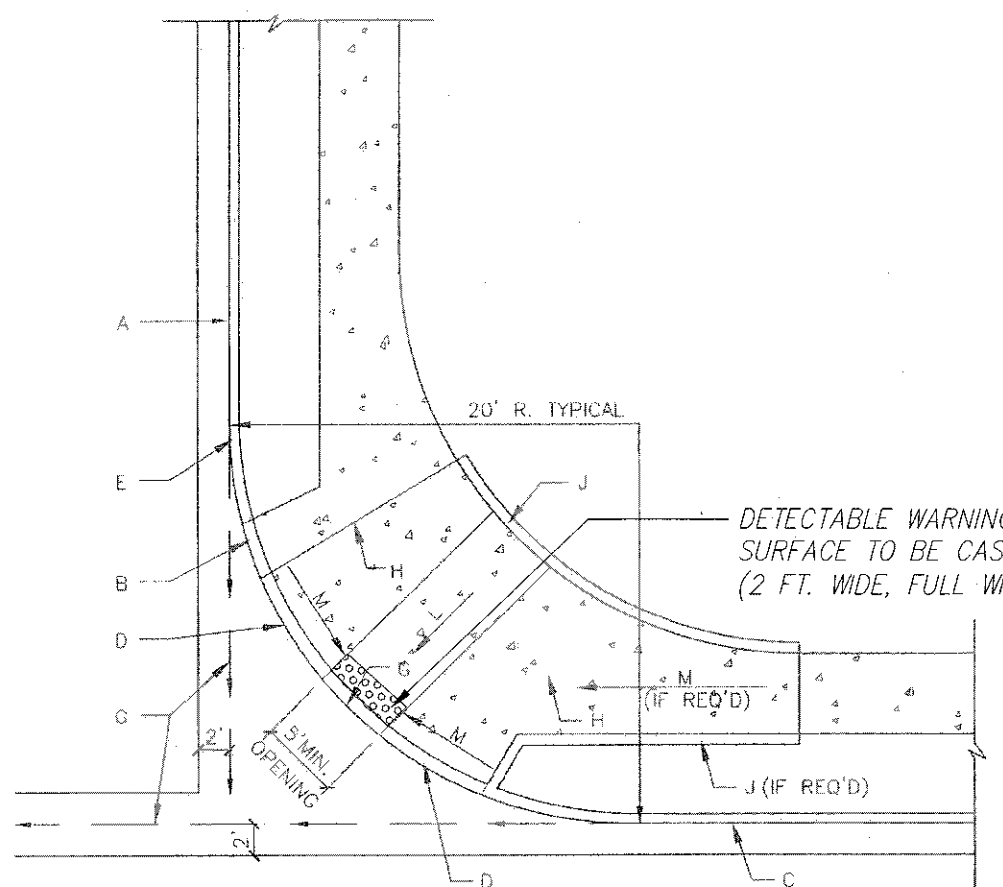
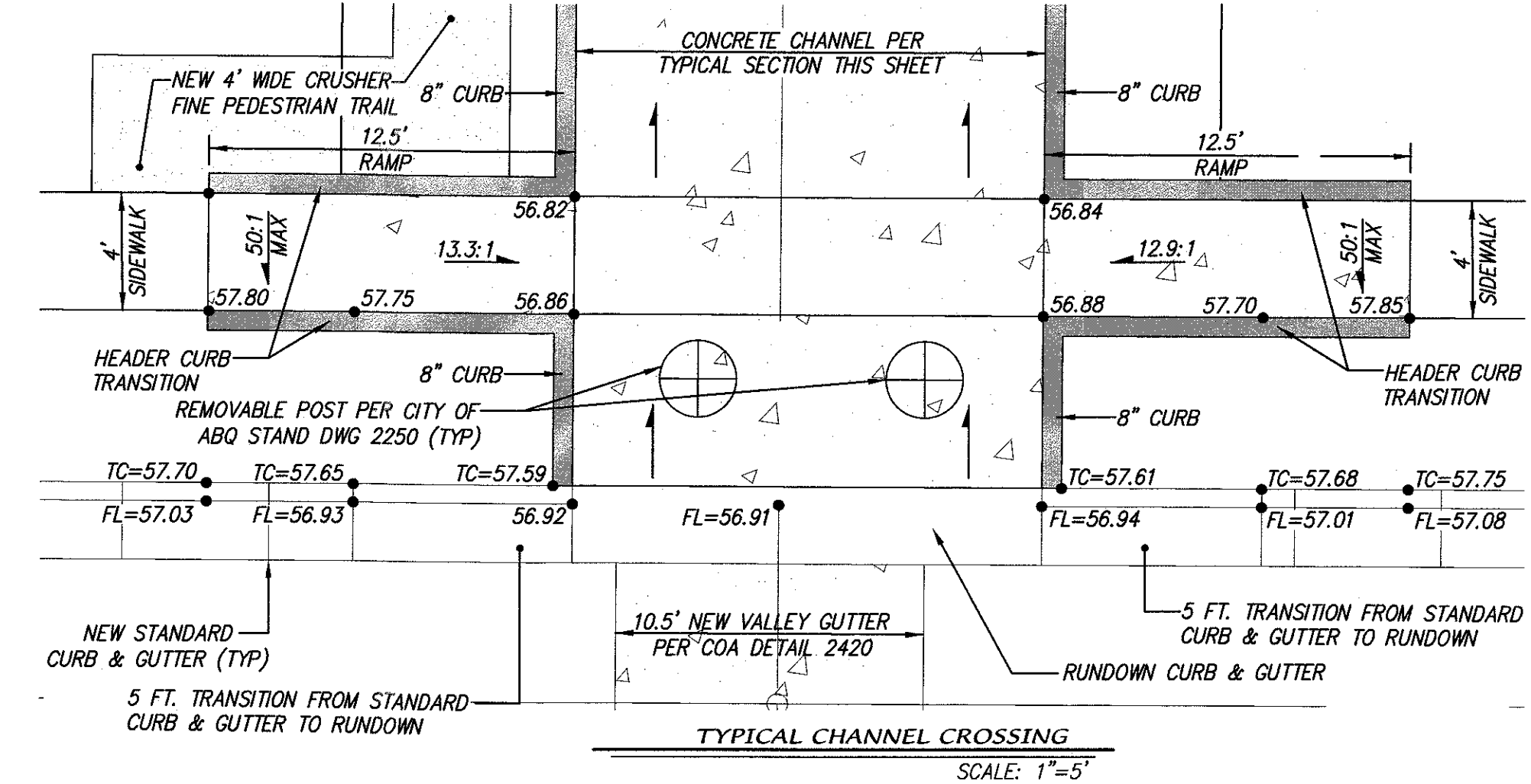
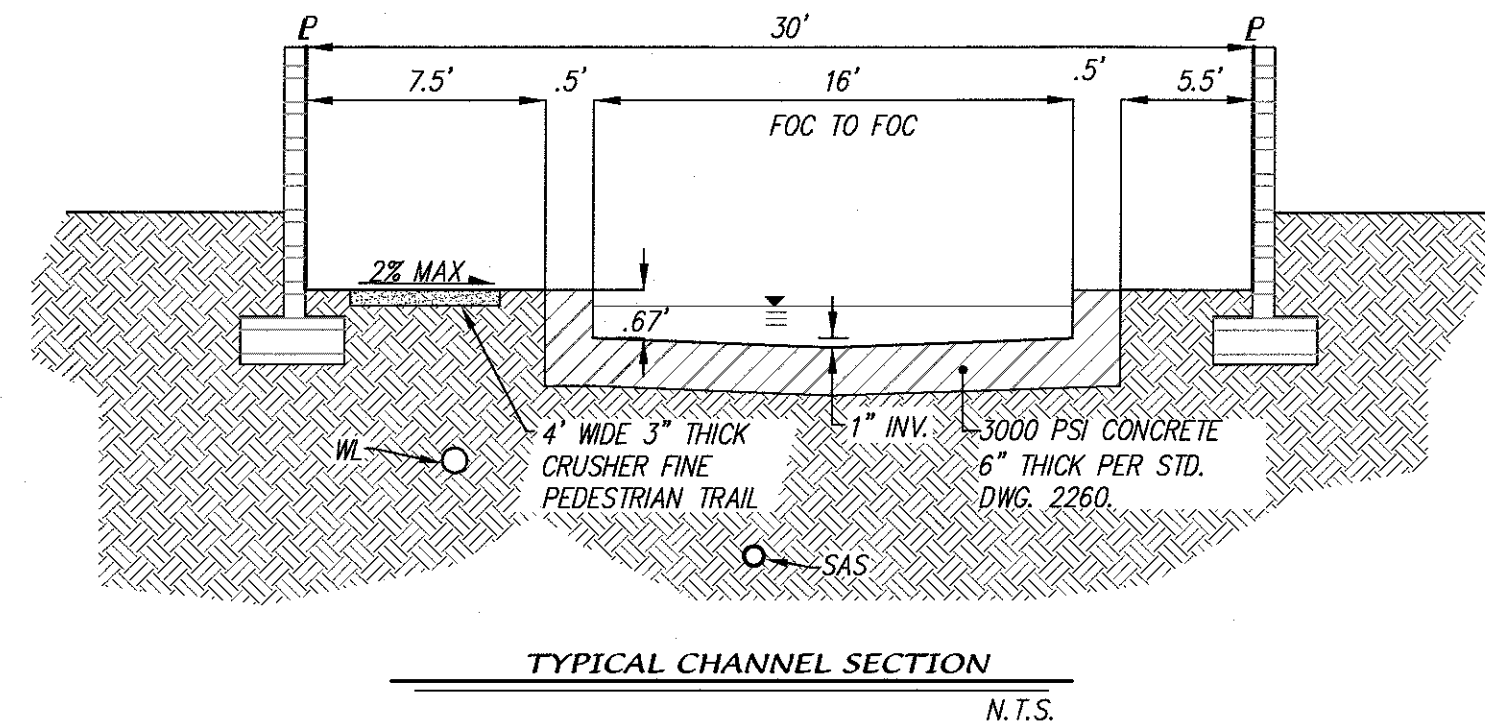
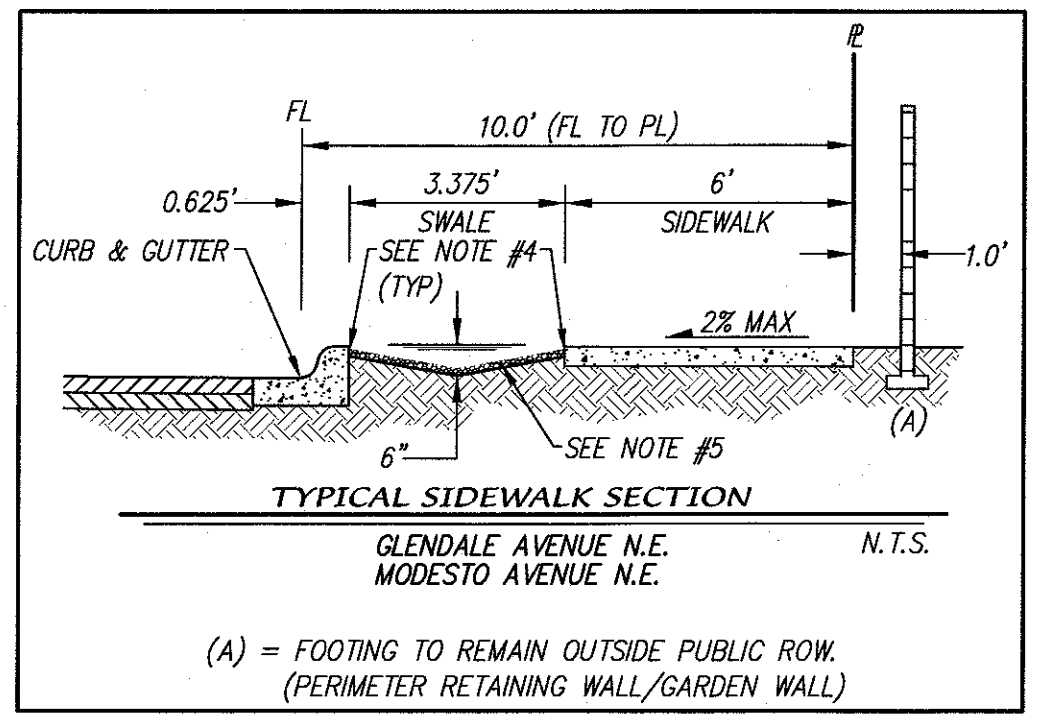
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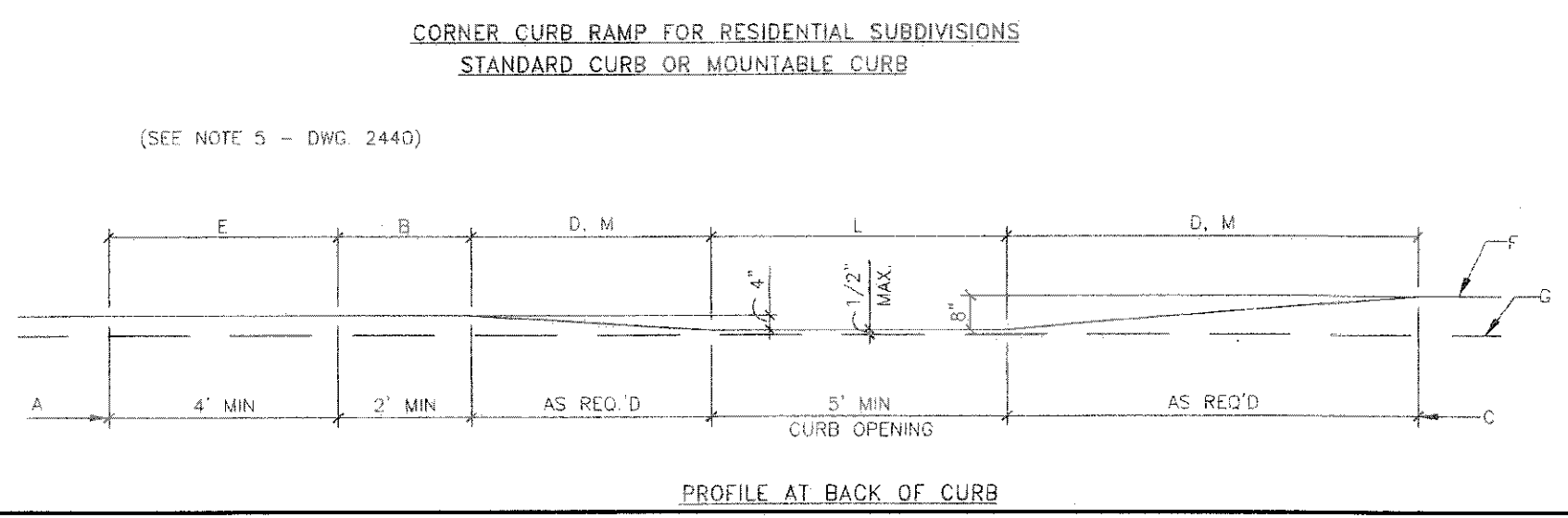
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- LANDSCAPE BUFFER NOTES:
1. Swale to be 6" deep when the distance between back of curb and the sidewalk is 5 feet.
 2. Swale to be 1" deeper than the distance in feet between the back of curb and the sidewalk for landscape buffers different than 5 feet wide.
 3. For wide landscape buffers, greater than 10 feet, the maximum depth is 10 inches.
 4. Final grade of dirt to be 1 to 2 inches below top of curb and top of sidewalk grade.
 5. Surface between back of curb and sidewalk to be covered with gravel mulch (minimum 3/4"), cobbles or rip-rap. Do not fill entire swale.
 6. A check dam will be required for swales on steeper longitudinal slopes and longer sections. The engineer will determine the location.
 7. Landscape fabric is recommended, but not required, between the dirt and the stone. If landscape fabric is to be used it is to be permeable.
 8. Detail is to be built for all new construction. In the case where the sidewalk is existing and the landscape buffer is improved with landscaping and/or some form of erosion protection, this requirement does not apply.



- CONSTRUCTION NOTES:
- A. MOUNTABLE CURB, ROLL TYPE.
 - B. 4" CURB AND GUTTER*, EXTEND 24" BEYOND END OF SLOPED CURB BEFORE TRANSITION.
 - C. STANDARD CURB & GUTTER.
 - D. SLOPED CURB.
 - E. TRANSITION FROM 4" STANDARD CURB TO 4" MOUNTABLE CURB OVER 4" MIN.
 - F. TOP OF CURB PROFILE (AT BACK OF CURB).
 - G. FLOWLINE.
 - H. 1/2" EXPANSION JOINT.
 - J. HEADER CURB, SEE STD. DWG. 2441 & 2415.
 - K. HEADER CURB MAY BE INTEGRAL CURB WITH RAMP. (SEE ALTERNATE SECTION A-A ON STD. DWG. 2441).
 - L. 50:1 MAX SLOPE ALL DIRECTIONS.
 - M. 12:1 MAX SLOPE.
 - N. ACCESS RAMP FLUSH WITH FILLET PER ADA STANDARDS. (1/4" VERTICAL MAX OR 1/2" WITH 1/4" SLOPED AT 45°).
 - O. 3/4" RADIUS.
 - P. 2" RADIUS.
 - Q. DIMENSION AT ROUNDED CORNERS MEASURED TO INTERSECTION OF STRAIGHT LINES.
- * SEE THIS SHEET FOR 4" CURB AND GUTTER DETAIL



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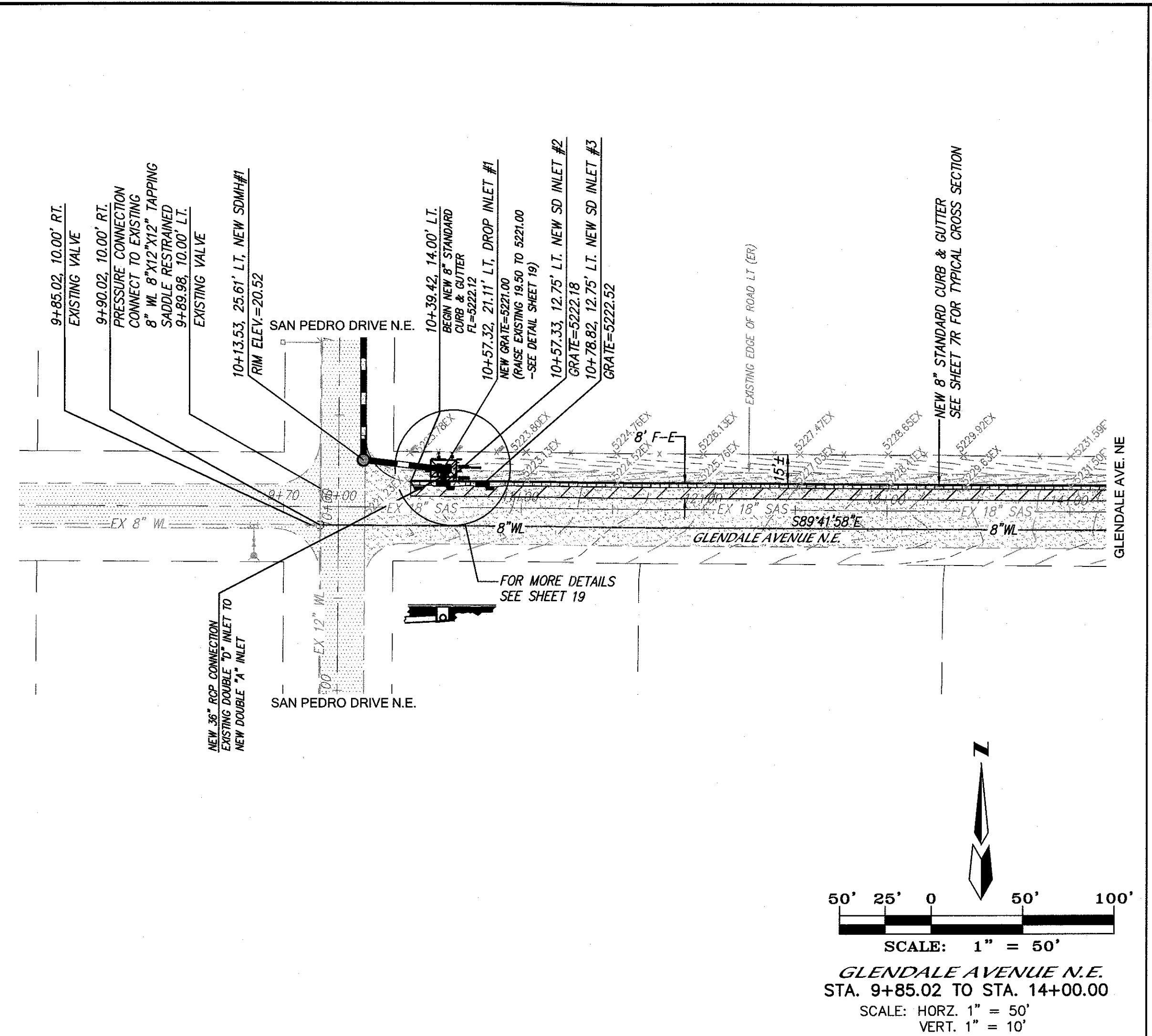
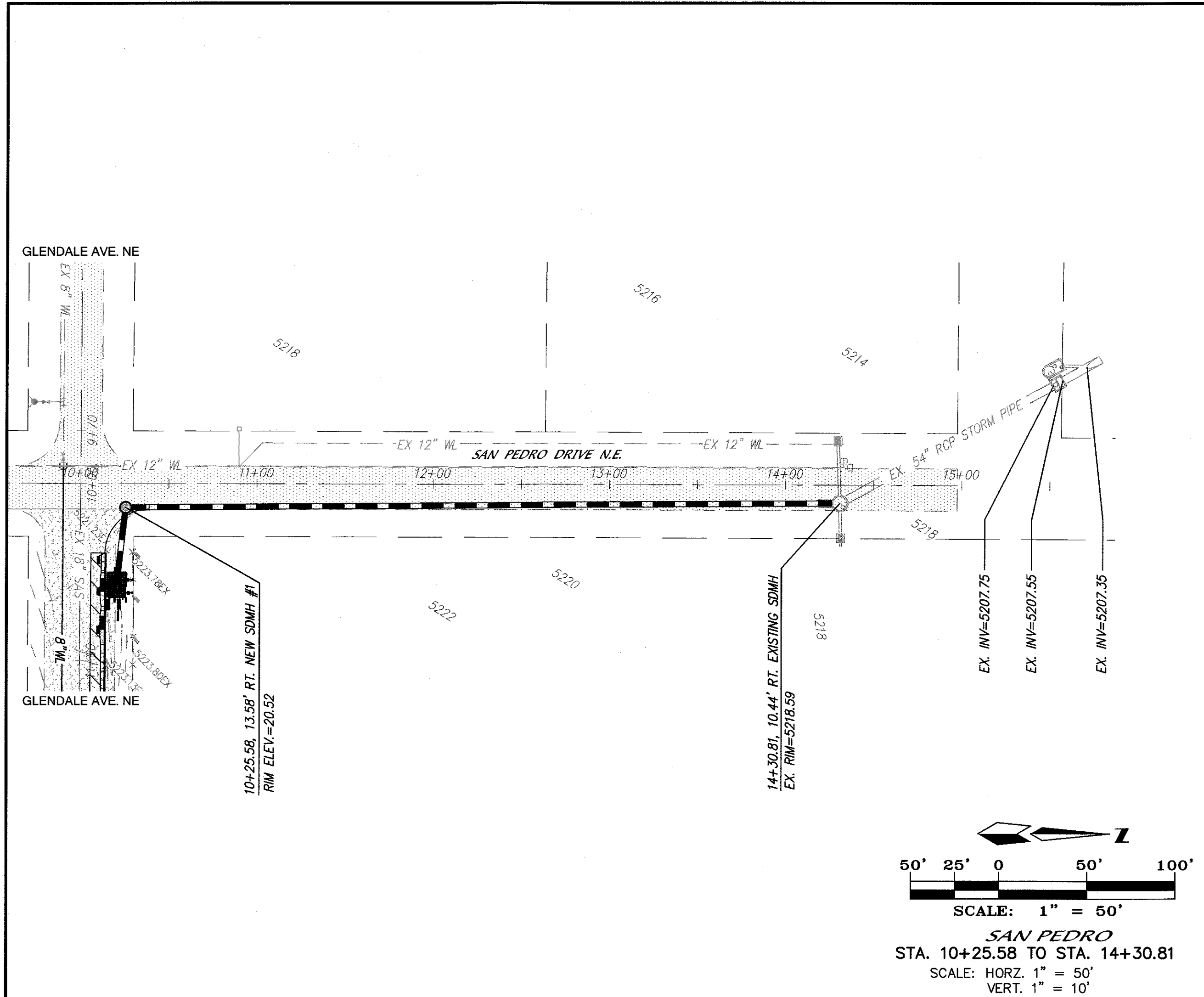
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **GLENDESTO SUBDIVISION
PAVING DETAILS**

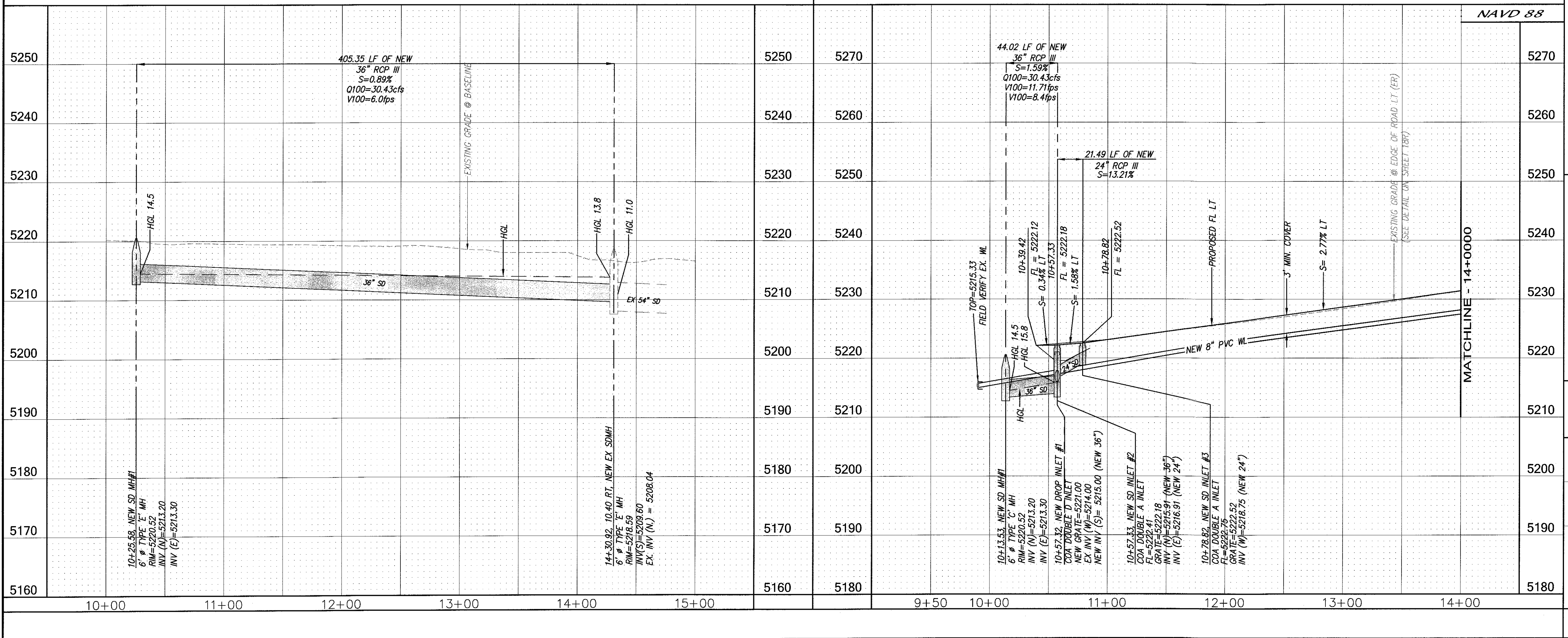
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| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | MO./DAY/YR. | MO./DAY/YR. |
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| | | | |

CITY PROJECT NO. **677183** ZONE MAP NO. **B-18-Z** SHEET **7R** OF **19**

| | | |
|-------------------|------|----------------------|
| CONTRACTOR | DATE | AS BUILT INFORMATION |
| STAKED BY | DATE | |
| INSPECTOR'S | DATE | |
| FIELD AND BY | DATE | |
| VERIFICATION BY | DATE | BENCH MARKS |
| CHANGED BY | DATE | |
| CORRECTED BY | DATE | |
| RECORDED BY | DATE | |
| NO. | NO. | SURVEY INFORMATION |
| AGRS MONUMENT | DATE | |
| NO. 10-C18 | DATE | |
| N=1524123.885 | DATE | |
| E=1542565.283 | DATE | ENGINEER'S SEAL |
| G-G=0.999665042 | DATE | |
| DA=0.001119.43" | DATE | |
| ELEVATION=5222.09 | DATE | |
| CENTRAL ZONE | DATE | REVISIONS |
| (NAD83/NAVD88) | DATE | |
| | DATE | |
| | DATE | |



- NOTES**
1. ALL STATIONING IS BASED ON THE CENTERLINE OF RIGHT OF WAY.
 2. INSTALL (WHEELCHAIR) CURB ACCESS RAMPS PER C.O.A. STD. DWG #2441 (CASE II).
 3. THE BASIS FOR THE CENTERLINE OF THE ROADWAY IS THE FINAL PLAT, FOR THE SUBDIVISION.

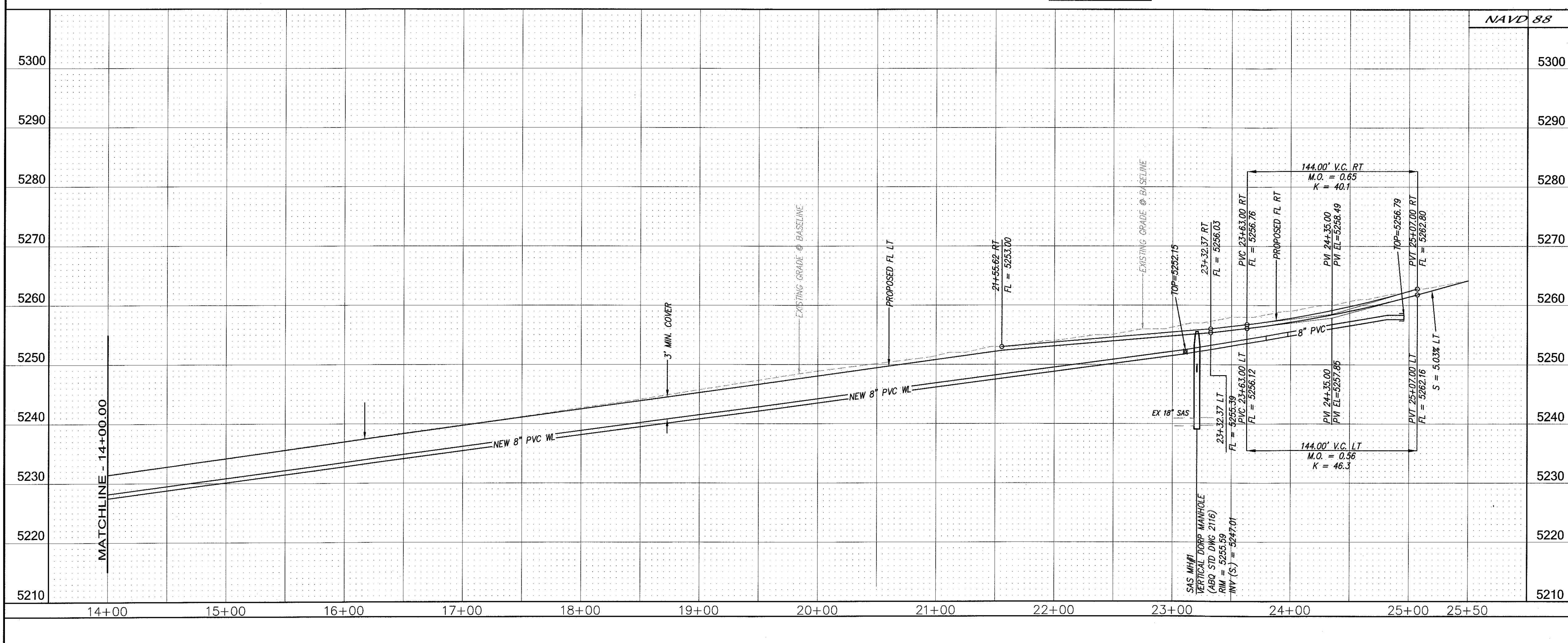
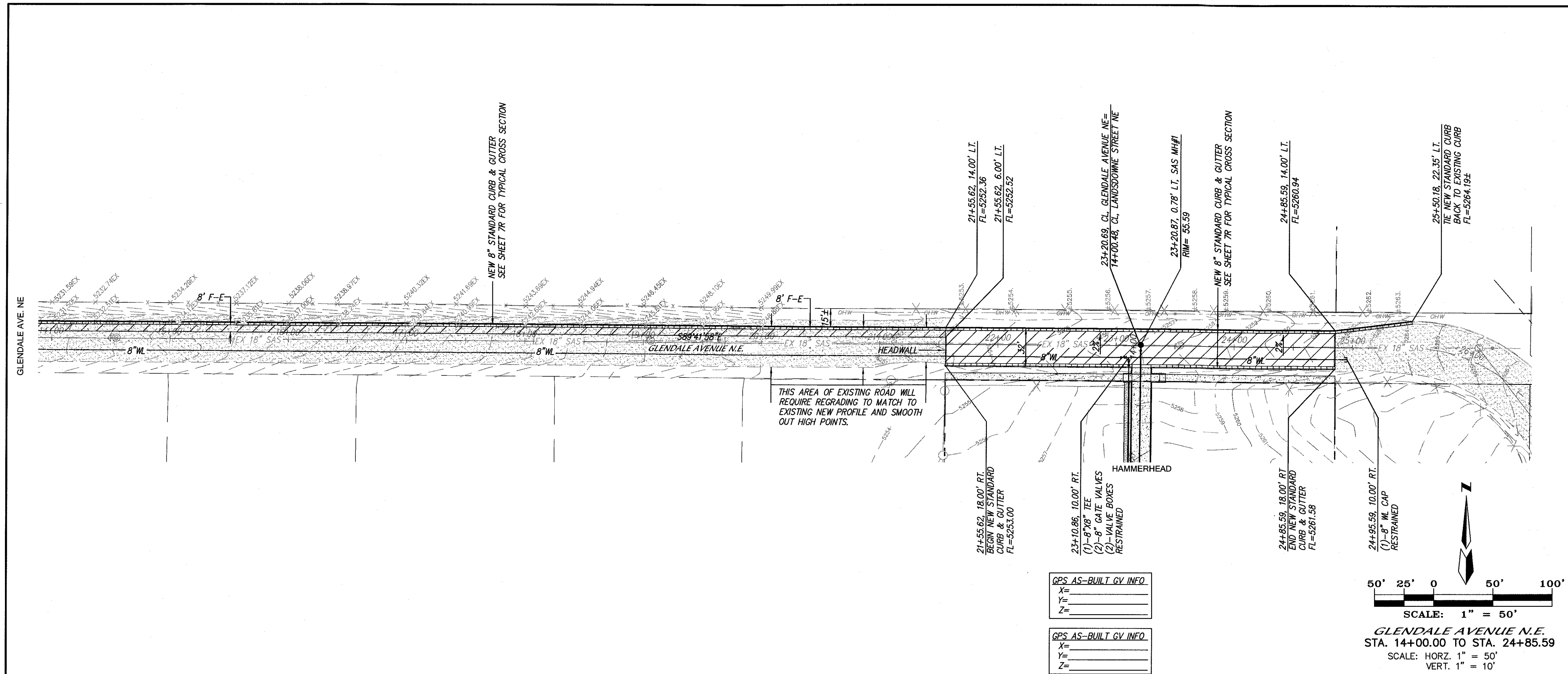


| ENGINEER'S SEAL | | SURVEY INFORMATION | | BENCH MARKS | | AS BUILT INFORMATION | |
|-----------------|------|--------------------|------|-------------------|------------|------------------------|------|
| NO. | DATE | BY | DATE | ACRS MONUMENT | CONTRACTOR | WORK | DATE |
| | | | | 10-C18 | | STAKED BY | |
| | | | | N=1524123.885 | | ACCEPTANCE BY | |
| | | | | E=1542565.263 | | FIELD | |
| | | | | G-C=0.99965042 | | DRAWING | |
| | | | | Δs=-0011'19.43" | | CORRECTED BY | |
| | | | | ELEVATION=5222.09 | | MICRO-FILM INFORMATION | |
| | | | | CENTRAL ZONE | | RECORDED BY | |
| | | | | (NA083/NA088) | | NO. | |

| REVISIONS | | | |
|-----------|-------|---------|-----|
| NO. | DATE | REMARKS | BY |
| 1 | 7/17 | DESIGN | WTB |
| 2 | 07/17 | DWG | DWG |

| CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT | |
|--|------------------------|
| TITLE: GLENDESTO SUBDIVISION SAN PEDRO & GLENDALE AVENUE N.E. UTILITY PLAN AND PROFILE | |
| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL |
| | |
| LAST DESIGN UPDATE | MO./DAY/YR. |
| | |

| CITY PROJECT NO. | ZONE MAP NO. | SHEET OF |
|------------------|--------------|----------|
| 677183 | B-18-Z | 17R 19 |



NOTES

- ALL STATIONING IS BASED ON THE CENTERLINE OF RIGHT OF WAY.
- INSTALL (WHEELCHAIR) CURB ACCESS RAMPS PER C.O.A. STD. DWG #2441 (CASE II).
- THE BASIS FOR THE CENTERLINE OF THE ROADWAY IS THE FINAL PLAT, FOR THE SUBDIVISION.

SECTION 625 SHOTCRETE

625.1 GENERAL

625.11 This work shall consist of construction of the shotcrete lining utilizing the shotcrete process, including mixing, placing, finishing, testing and curing as shown in the contract in compliance with these specifications.

625.12 The requirements of Section 510 - Portland Cement Concrete and Section 511 - Concrete Structures, of NMDOT Std. Specs for Highway & Bridge Construction, 2007 Edition, shall apply where appropriate and not expressly modified by these specifications. Fly Ash shall be used in all concrete and shotcrete per section 511.

625.2 MATERIALS

625.21 All requirements of Section 510 - Portland Cement Concrete shall apply except as modified herein. Shotcrete shall have a minimum compressive strength of 4,000 PSI at 28 days, 5-8% air content at the pump and a slump of 1-1/2" to 3" at the pump.

625.211 Shotcrete shall be tinted prior to placement. Tinted concrete will be made by the addition of an approved concrete coloring agent to the concrete mix. The coloring agent will be added in addition to other concrete ingredients and no reductions to other ingredients will be made.

The concrete coloring for use on this project shall be:

| Davis Color or Approved Equal | lbs./sack of cement | Color number |
|-------------------------------|---------------------|--------------|
| San Diego Buff | 1 lb | |

The design mixes must be submitted by the Contractor for approval by the Project Manager prior to placement.

Coordination with the General contractor, shotcrete subcontractor, AMAFCA Project Manager will be required prior to any shotcrete placement.

625.22 Coarse Aggregate. Coarse aggregate shall meet the following gradation requirements:

| Sieve Size | Percent Passing |
|------------|-----------------|
| 1/2 inch | 100 |
| 3/8 inch | 85-100 |
| No. 4 | 10-30 |
| No. 8 | 0-10 |
| No. 16 | 0-5 |

625.26 Quality Acceptance Tests:

A minimum of three cores shall be taken for each 500 linear feet of channel. Cores shall be obtained and tested in accordance with ASTM C-42-90. One core shall be removed and tested at 7 days, one at 14 days, and one at 28 days. Minimum compression strengths shall be as follows:

| 7 day | 14 day | 28 day |
|-----------|-----------|-----------|
| 2,400 PSI | 3,000 PSI | 4,000 PSI |

If shotcrete cores at 28 days show deficient strength, additional cores shall be taken at the contractor's expense from adjacent areas. Two cores shall be required for each deficient core. Should either additional core prove deficient, the defective shotcrete shall be removed and replaced at the Contractor's expense. No additional shotcreting shall be done until the shotcrete mixture is revised and approved by the Project Manager.

Should a strength deficiency be evident in 7-day or 14-day cores, on approval of Project Manager, the Contractor may proceed with the work on his own responsibility until the 28 day cores are tested. These cores shall also be used for determining shotcrete thickness.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE

8/7/18 REVISED PAVING & STORM IN GLENDALE AVE

NO. DATE

REMARKS

DESIGN

DESIGNED BY DATE 7/17

DRAWN BY DATE 07/17

CHECKED BY DATE 07/17

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

TITLE: **GLENDESTO SUBDIVISION**
GLENDALE AVENUE N.E.
UTILITY PLAN AND PROFILE

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL

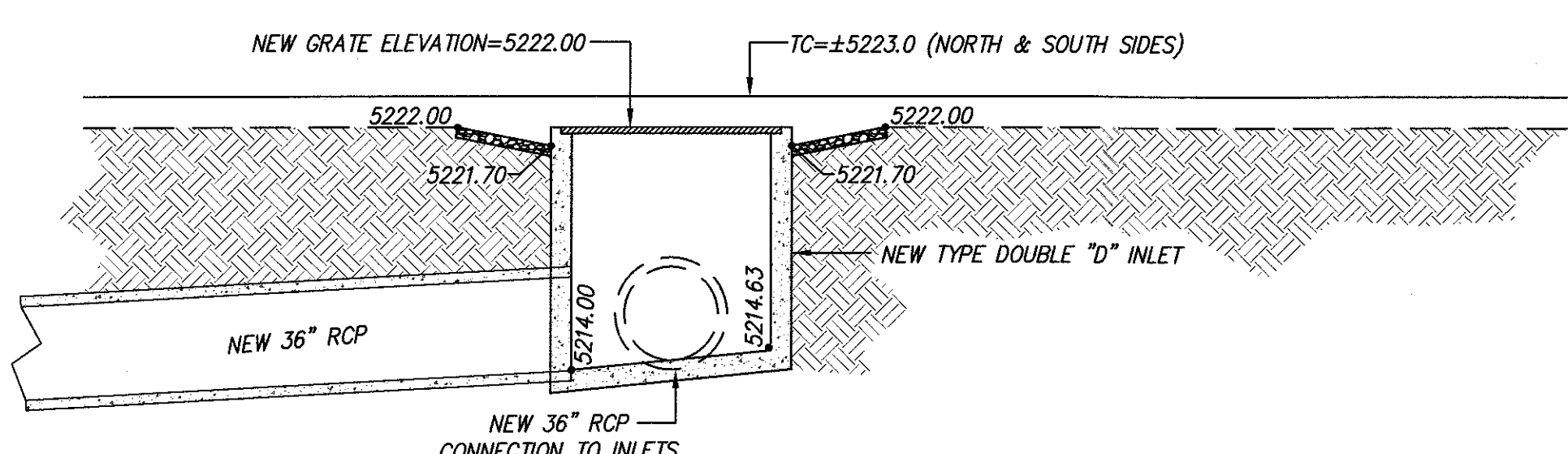
LAST DESIGN UPDATE

MO./DAY/YR. MO./DAY/YR.

CITY PROJECT NO. **677183**

ZONE MAP NO. **B-18-Z**

SHEET **18R** OF **19**




| PROFILE VIEW | | SCALE: 1"=5' |
|-----------------------------------|--------------|--------------|
| DOUBLE D INLET CAPACITY CALCS. | | |
| AS ORIFICE | AS WEIR | |
| H = 1.0' | L = 16.6' | |
| AREA = 9.12 SQ. FT. | H = 1.0' | |
| Q = 43.8 cfs | C = 3 | |
| | Q = 49.8 cfs | |

| ENGINEER'S SEAL | | SURVEY INFORMATION | | BENCH MARKS | | AS BUILT INFORMATION | |
|-----------------|--|--------------------|--------|---------------|--|----------------------|--|
| | | FIELD NOTES | | AGRS MONUMENT | | | |
| | | NO. | BY | DATE | | | |
| 8/7/18 | REVISED PAVING & STORM IN GLENDALE AVE | | | | | | |
| | | | | | | | |
| | | | | | | | |
| NO. | DATE | REMARKS | BY | | | | |
| | | REVISIONS | | | | | |
| | | DESIGN | | | | | |
| DESIGNED BY | WTB | DATE | 7/7/17 | | | | |
| DRAWN BY | WTB | DATE | 07/17 | | | | |
| CHECKED BY | DMG | DATE | 07/17 | | | | |

DALE E. HOELZER
NEW MEXICO
LICENSED PROFESSIONAL ENGINEER
11987

Handwritten: 8-7-18, [Signature]

dmg MARK GOODWIN & ASSOCIATES, P.A.
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OFFICE (505) 828-2200, FAX (505) 797-9539

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PUBLIC WORKS DEPARTMENT

TITLE: *GLENDESTO SUBDIVISION
GLENDALE AVENUE N.E.
UTILITY PLAN AND PROFILE*

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|-------------------------|------------------------|--------------------|-------------|-------------|
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| CITY PROJECT NO. | ZONE MAP NO. | SHEET | OF |
| 677183 | B-18-Z | 19R | 19 |



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: Glendesto Subdivision (AKA Tierra Serena) Building Permit #: _____ City Drainage #: B18 / D020
DRB#: 1004472 EPC#: _____ Work Order#: _____
Legal Description: Lot 8-A, Block 25, Tract A, Unit B, N.A.A.
City Address: Glendale Avenue

Engineering Firm: Mark Goodwin and Associates, PA Contact: Diane Hoelzer, PE
Address: PO Box 90606, Abq, 87199
Phone#: 505-828-2200 Fax#: _____ E-mail: diane@goodwinengineers.com

Owner: Pulte Group Contact: Kevin Patton
Address: 7601 Jefferson St. NE, ABQ, NM 87109
Phone#: 341-8591 Fax#: _____ E-mail: kevin.patton@pultegroup.com

Architect: NA Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

Other Contact: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

Check all that Apply:

DEPARTMENT:

- ☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ ARCHITECT CERTIFICATION

☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR

☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)

☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY

☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
☐ FINAL PLAT APPROVAL
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
☐ FOUNDATION PERMIT APPROVAL
☐ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☐ PAVING PERMIT APPROVAL
☐ GRADING/ PAD CERTIFICATION
☒ WORK ORDER APPROVAL
☐ CLOMR/LOMR

☐ PRE-DESIGN MEETING
☐ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ☒ Yes ☐ No

DATE SUBMITTED: August 9, 2018 By: Diane Hoelzer, PE

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

***Supplemental Information
to
Approved Drainage Management Plan
Glendesto Subdivision***

***(A.K.A. Tierra Serena Subdivision)
(27 lots)***



***Prepared by
Mark Goodwin & Associates, P.A.***

August 2018

I. Revisions to Stormwater Management Plan on Glendale Avenue

After plans were approved and construction had commenced, City Engineers requested that the developer consider a redesign to replace the roadside shotcrete swale with a curb and gutter and pavement section to carry the runoff to two new inlets placed at the end of Glendale Avenue near San Pedro.

At a joint meeting at the City, it was decided that the following improvements would be designed:

- 1. Curb and gutter along the entire section of Glendale Avenue along the north side. The road section in front of the development would be 32' FF and the section west of the development down to San Pedro Avenue would be 8' F-E and tie to the existing pavement section along the southside.*
- 2. Two Double A inlets would be placed along the north side of Glendale Avenue and connect to the Double D inlet and storm drain that was already constructed at the time of the discussed revisions.*

A redesign has been done and revised work order plan sheets were submitted to DRC.

At the request of City Hydrology, an updated grading plan was prepared to show these work order revisions. The revised G&D plan accompanies this submittal.

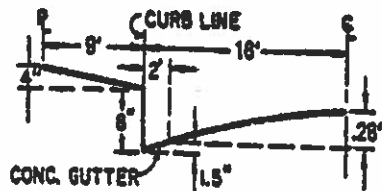
Accompanying this narrative, are the inlet interception calculations. The 100 year peak discharge from the original drainage report (7-7-17)(B18D020) was 30.43 cfs. The first inlet will intercept 12 cfs. The second inlet will intercept 8.4 cfs, leaving approximately 10.43 cfs bypass for the 100 year storm.

Chapter 22 - Drainage, Flood Control and Erosion Control

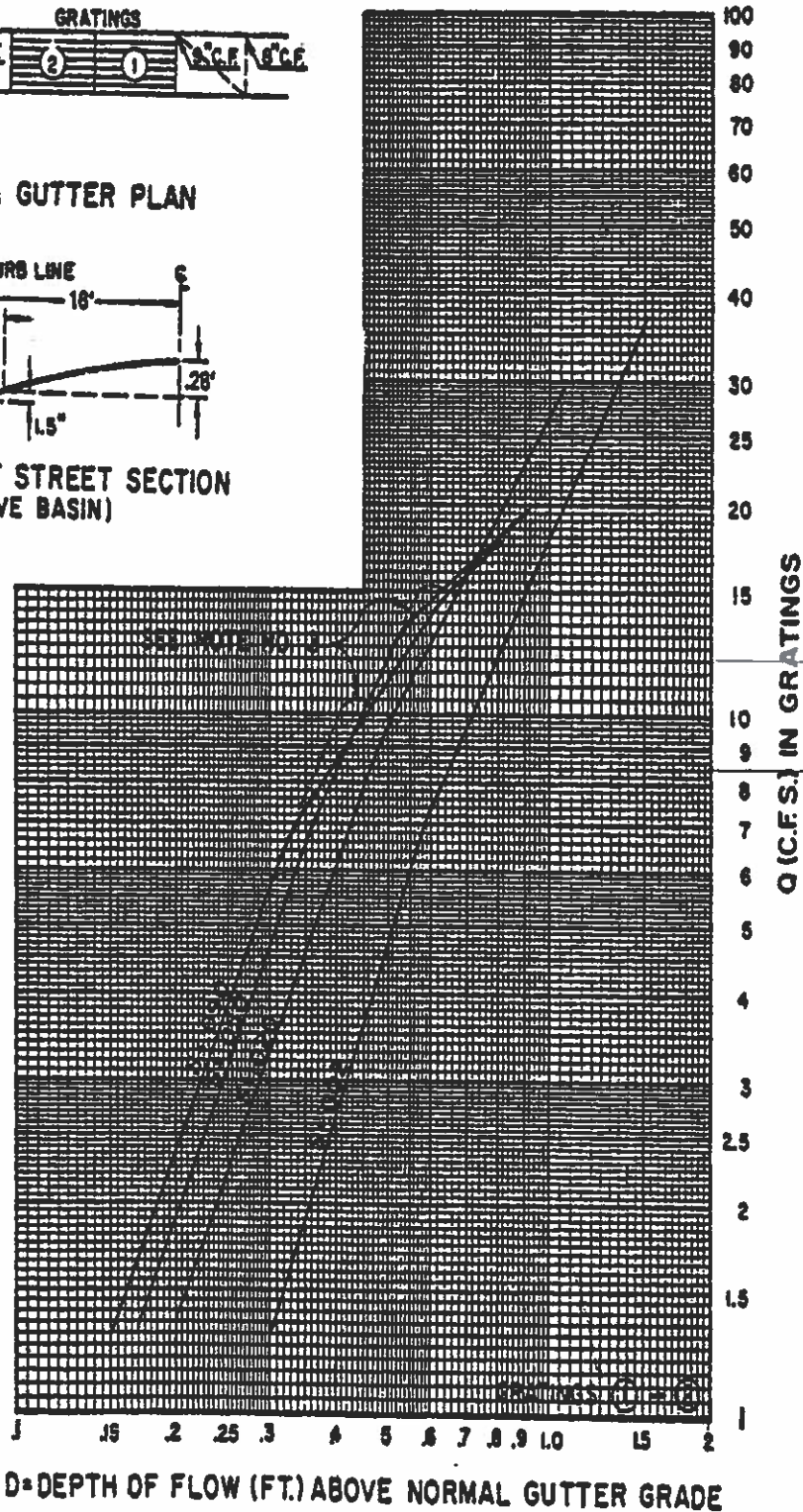
GRATING CAPACITIES FOR TYPE DOUBLE "C," AND "D"



GRATING & GUTTER PLAN



TYPICAL HALF STREET SECTION (ABOVE BASIN)



12 cfs (Inlet #3)

8.4 cfs (Inlet #2)

30.43 cfs
- 12.00
18.43 cfs
- 8.4
10.03 cfs bypass

PLATE 22.3 D-6

Channel Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc.

Wednesday, Aug 1 2018

Glendale Avenue @ Inlet #3

User-defined

Invert Elev (ft) = 100.00
Slope (%) = 2.77
N-Value = 0.018

Highlighted

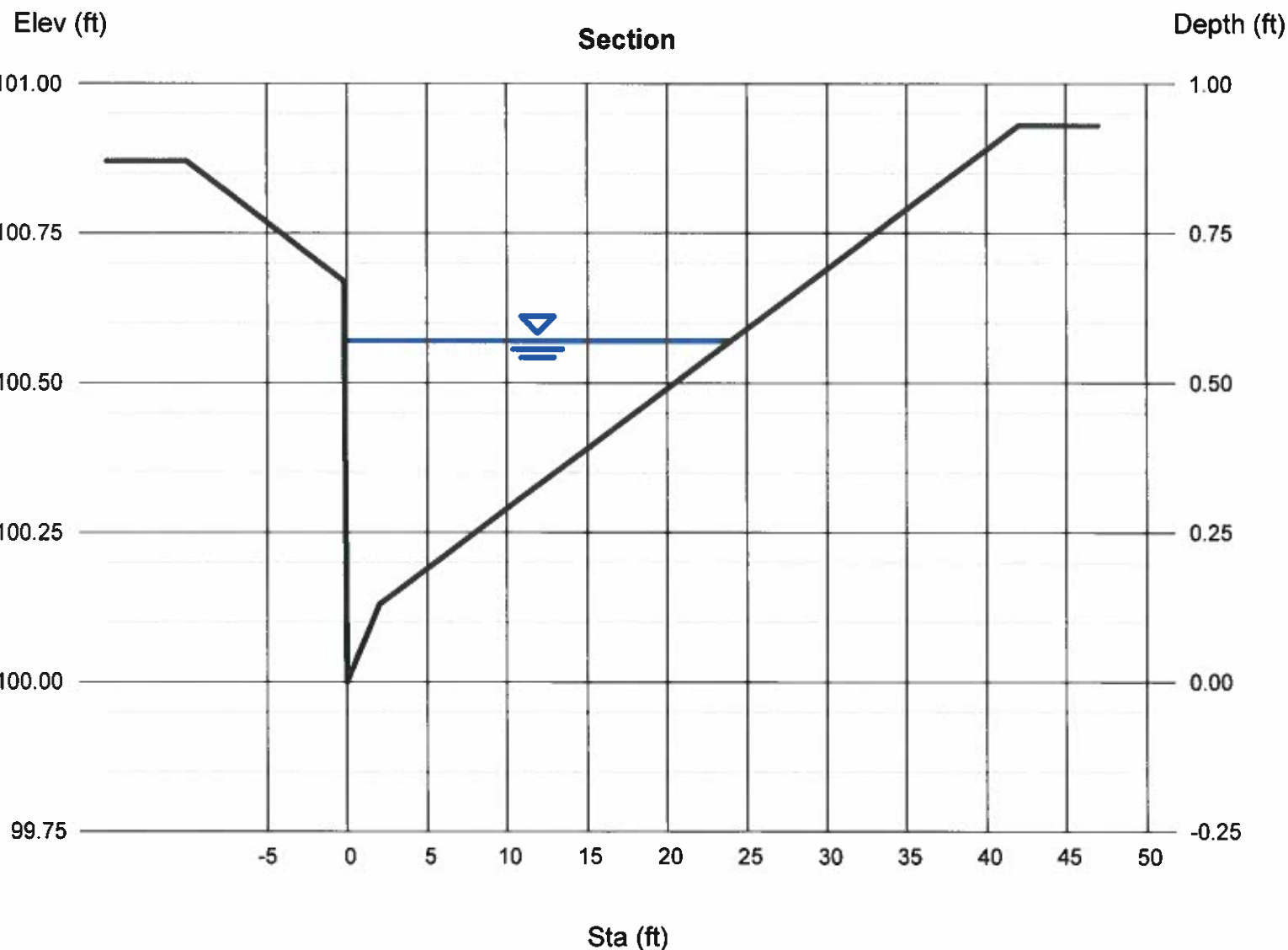
Depth (ft) = 0.57
Q (cfs) = 30.43
Area (sqft) = 5.89
Velocity (ft/s) = 5.17
Wetted Perim (ft) = 24.60
Crit Depth, Yc (ft) = 0.72
Top Width (ft) = 24.14
EGL (ft) = 0.98

Calculations

Compute by: Known Q
Known Q (cfs) = 30.43

(Sta, El, n)-(Sta, El, n)...

(-10.00, 100.87, 0.013)-(2.00, 100.13, 0.013)-(8.00, 100.25, 0.013)-(32.00, 100.73, 0.020)-(42.00, 100.93, 0.020)



Channel Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc.

Wednesday, Aug 1 2018

Glendale Avenue @ Inlet #2

User-defined

Invert Elev (ft) = 100.00
Slope (%) = 1.58
N-Value = 0.017

Calculations

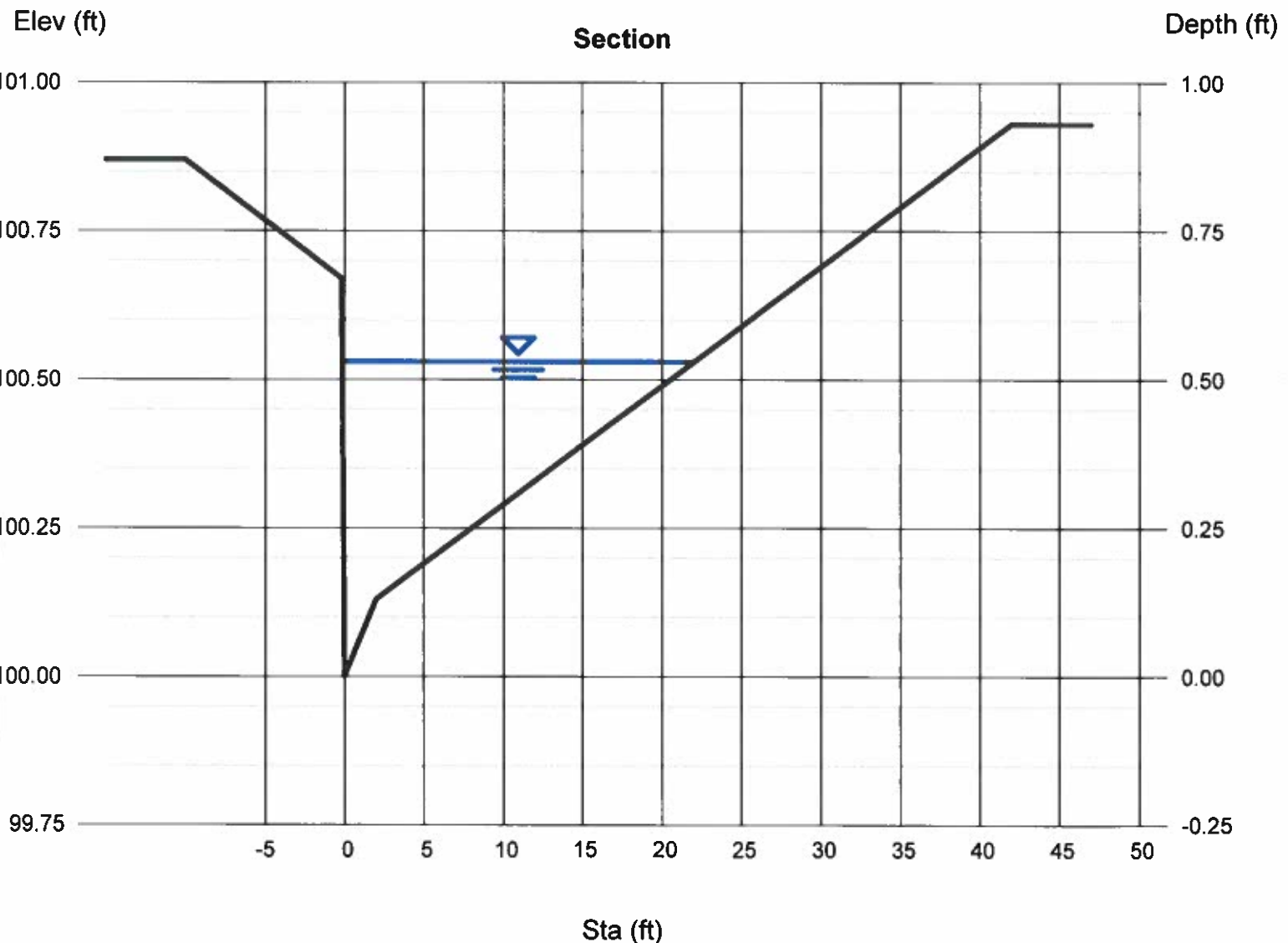
Compute by: Known Q
Known Q (cfs) = 18.43

Highlighted

Depth (ft) = 0.53
Q (cfs) = 18.43
Area (sqft) = 4.97
Velocity (ft/s) = 3.71
Wetted Perim (ft) = 22.55
Crit Depth, Yc (ft) = 0.60
Top Width (ft) = 22.13
EGL (ft) = 0.74

(Sta, El, n)-(Sta, El, n)...

(-10.00, 100.87)-(2.00, 100.13, 0.013)-(8.00, 100.25, 0.013)-(32.00, 100.73, 0.020)-(42.00, 100.93, 0.020)



81-9-1

ATA Tana
Seven

Project site
Glendale

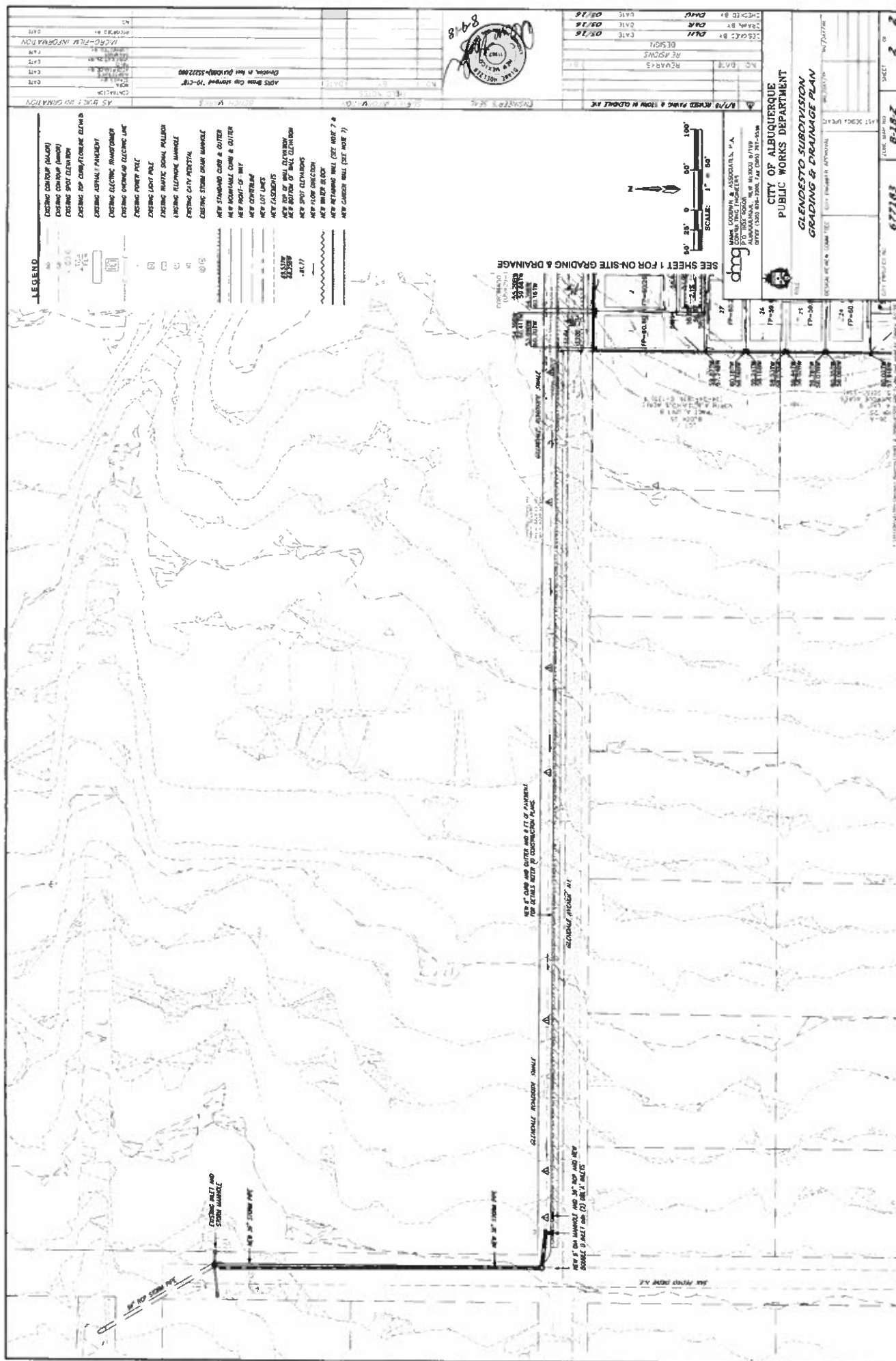
Glendale Ave NE

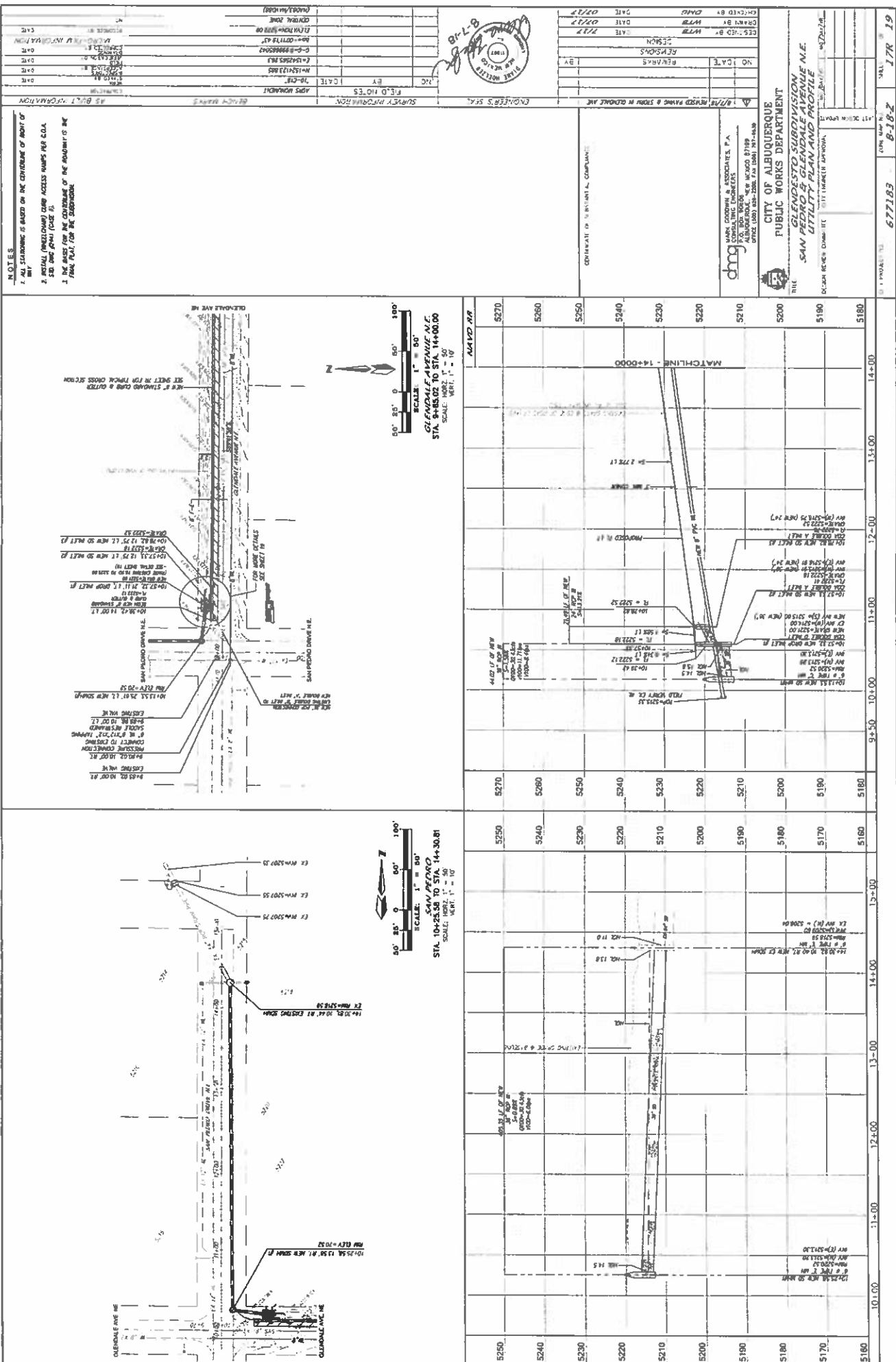
HERN
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NOTES

1. ALL STATIONING IS BASED ON THE CENTERLINE OF HIGHWAY 101.
2. EXISTING (PROPOSED) CURB AND GUTTER LINES ARE SHOWN FOR REFERENCE.
3. THE DATE FOR THE CONSTRUCTION OF THE DRAWING IS 08/14/19.
4. FINAL PLAN FOR THE SUBMITTAL.

AS BUILT INFORMATION

DATE: 08/14/19

BY: [Signature]

FOR: [Signature]

APPROVED FOR THE CITY OF ALBUQUERQUE

DATE: 08/14/19

BY: [Signature]

APPROVED FOR THE CITY OF ALBUQUERQUE

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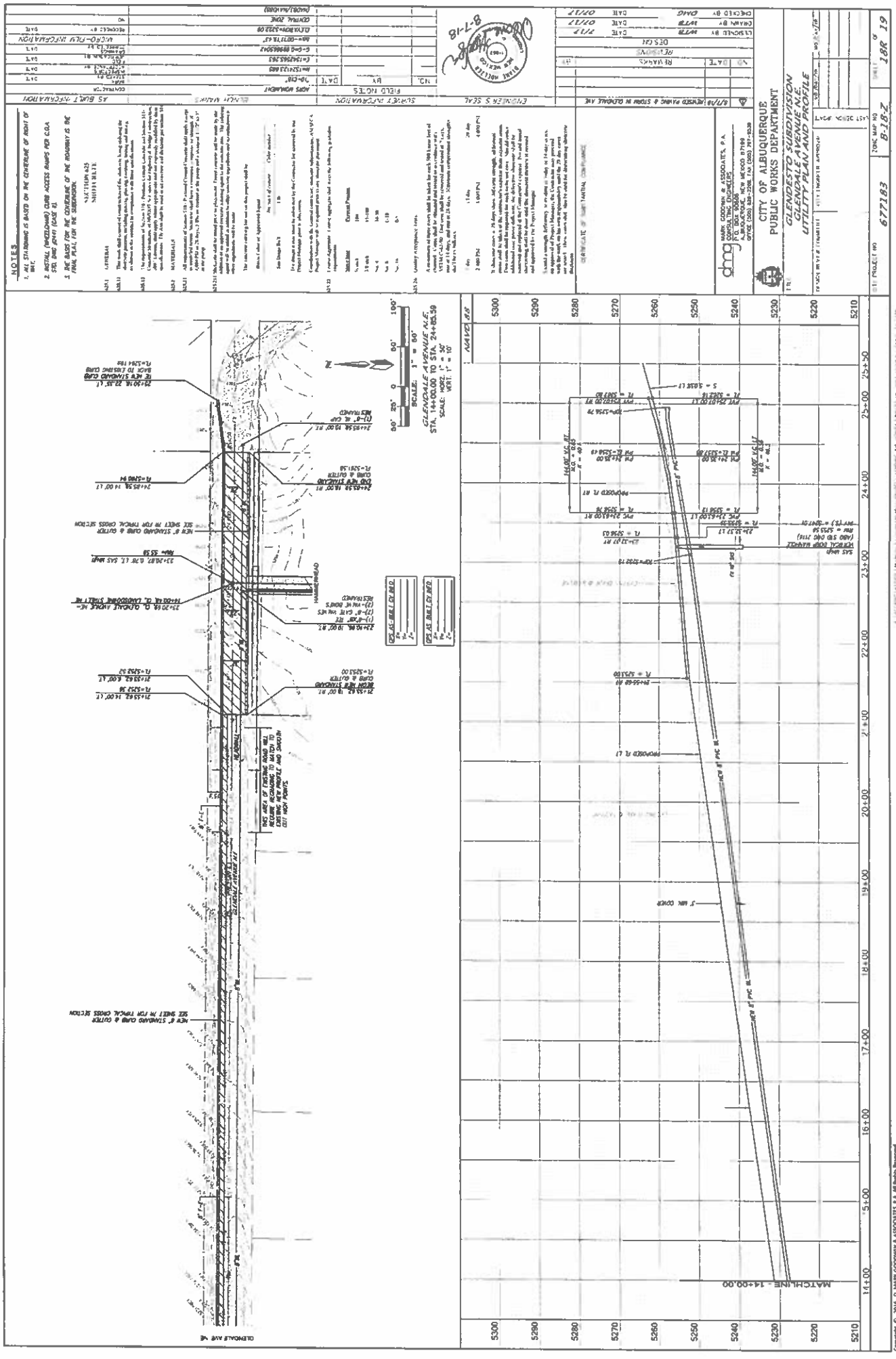
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