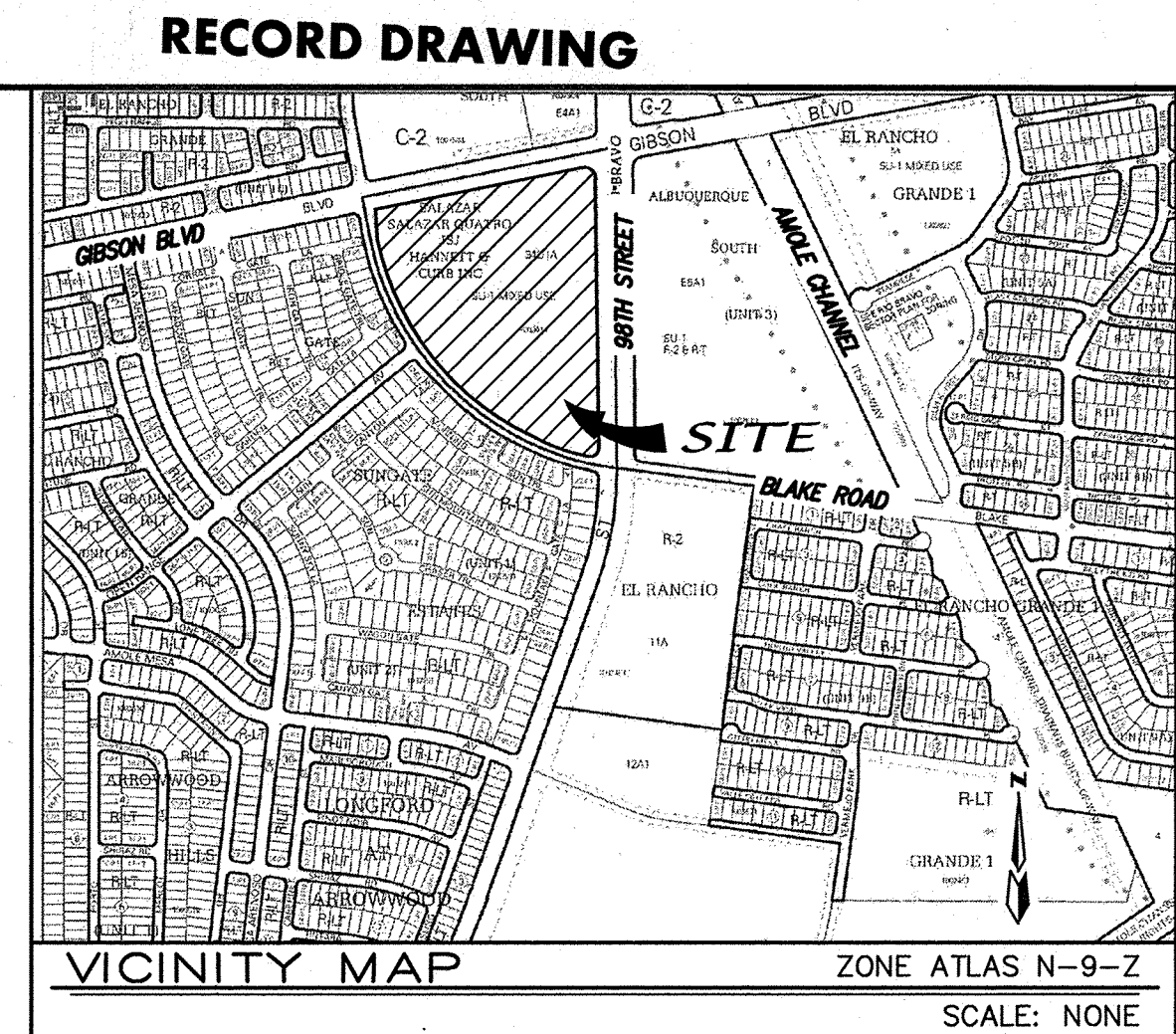


CONSTRUCTION PLANS
FOR
LOS DIAMANTES SUBDIVISION
ALBUQUERQUE, NEW MEXICO

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTIONS
CITY CONSTRUCTION ENGINEER
11/30/2016
DATE: 11/30/2016



GENERAL NOTES

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE 4.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (505-224-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
6. ALL WORK AFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
7. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS WAS EXISTING, OR AS INDICATED BY THIS PLAN SET.
8. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO ENSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
9. CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAVE BEEN RECORDED.
10. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
11. THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF WELL COLLECTORS, TRANSMISSION LINES, OR FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT http://www.abqwater.org/Water_Shut_Off_online_Procedures.aspx
12. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APPROVAL.
13. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
14. ELECTRONIC MARKER DEVICE (EMD) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE AMENDMENT #9.
15. PRIVATE STREETS REQUIRE STREET NAME SIGNS, STOP SIGNS, AND ANY NECESSARY STRIPING (DEVELOPER'S RESPONSIBILITY).
16. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT, PAVEMENT MARKINGS, CURB & GUTTER, SIGNAGE, HANDICAP RAMPS AND SIDEWALK DURING CONSTRUCTION PART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE, PER CITY OF ALBUQUERQUE STANDARDS, AT HIS OWN EXPENSE.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.
18. TWO WEEKS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHOULD NOTIFY THE TRANSIT DEPARTMENT OF ANY IMPACT THE PROPOSED PROJECT WILL HAVE ON THE TRANSIT SYSTEM SUCH AS CAUSING A DETOUR, OR CAUSE THE CLOSING OR RELOCATION OF A BUS STOP. THE CONTACT PERSON IS SHAGHI RIZVI, OFFICE PHONE IS 505-724-3134, CELL PHONE IS 505-331-0253, AND E-MAIL srizvi@cabq.gov AND/OR DOUGLAS GOFF, OFFICE PHONE IS 505-724-3137, CELL PHONE IS 505-206-0151, AND E-MAIL dgoff@cabq.gov.

NOTE:
CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.

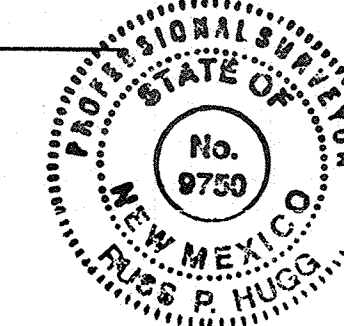
CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. ALL EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE APPROXIMATE LOCATION ONLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATIONS TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS. DISTURBANCE OF EXISTING UTILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 628-2206, FAX (505) 787-9539

SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPS No. 9750
11-14 2017



DRB NO.
1010332

INDEX TO DRAWINGS	
SHEET NO.	SHEET NO.
1	TITLE SHEET
2	PLAT
3	GRADING & DRAINAGE PLAN
3.1	EROSION & SEDIMENT CONTROL PLAN
4	MASTER UTILITY PLAN
4.1	SIGNING & STRIPING PLAN
5	PAVING DETAILS
6-9	PAVING IMPROVEMENTS
10	MASTER UTILITY PLAN
11-16	UTILITY IMPROVEMENTS
17	MEDIAN DROP INLET DETAILS

RECORD DRAWING
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Mark Goodwin, NMPE 8948, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Russ Hugg NMPS number 9750.

Mark Goodwin 12/1/17
Date

This set of drawings is accepted for RECORD purposes by _____ on _____, 2017.

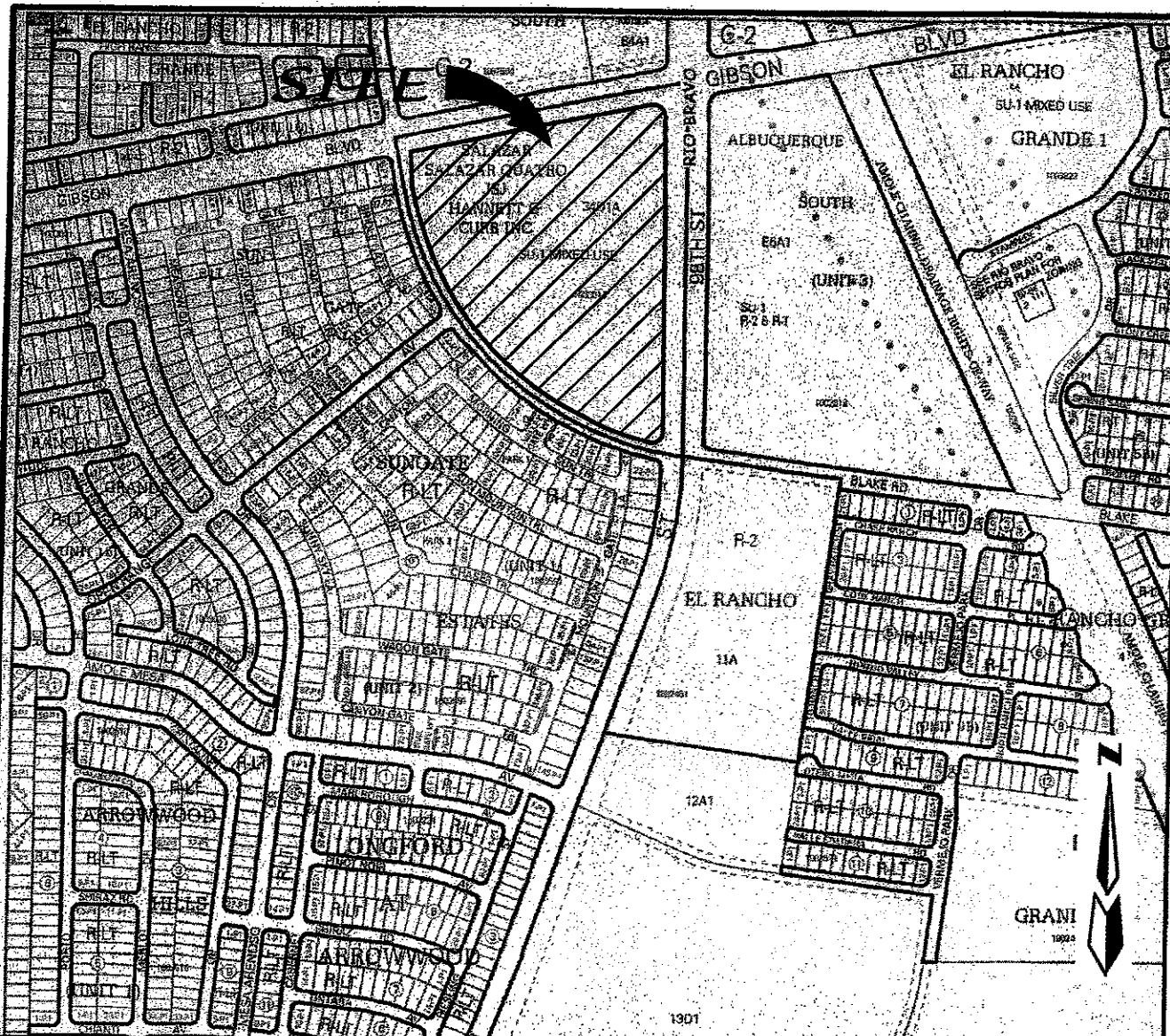


PRELIMINARY PLAT
FOR
LOS DIAMANTES SUBDIVISION
WITHIN THE
TOWN OF ATRISCO GRANT
PROJECTED SECTION 4
TOWNSHIP 9 NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JUNE, 2015

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING
C1	1578.54'	1252.00'	72°14'21"	S47°06'29"E
	(1571.30')		(72°24'13")	(N47°17'11"W)
				(1470.09')

AGRS MONUMENT
TRANS
N=1471885.503
E=1495145.466
G-C=0.999683154
Δ=00°16'43.33"
CENTRAL ZONE
ELEVATION=5121.089
(NAD83/NAVD88)

TRACT E-6-A-1
ALBUQUERQUE SOUTH, UNIT 3
(02-01-2008, 2008C-018)



VICINITY MAP ZONE ATLAS MAP N-9-Z NTS

LEGAL DESCRIPTION

A TRACT OF LAND SITUATE WITHIN THE TOWN OF ATRISCO GRANT, PROJECTED SECTION 4, TOWNSHIP 9 NORTH, RANGE 2 EAST, NEW MEXICO PRINCIPAL MERIDIAN, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, BEING ALL OF TRACT 34D-1-A, LANDS OF SALAZAR FAMILY TRUST, SALAZAR QUATRO TRUST, JSJ INVESTMENT COMPANY AND FALBA HANNETT AND LANDS OF CURB INC. 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 NOVEMBER 25, 2003 IN BOOK 2003C, PAGE 357 AND CONTAINING (1,096,120 S.F.), 25.1635 ACRES MORE OR LESS.

SUBDIVISION DATA

GROSS ACREAGE	25.1635 AC
AREA OF PUBLIC RIGHT-OF-WAY DEDICATED	5.2999 AC
AREA OF TRACT A (COMMERCIAL)	5.6729 AC
AREA OF COMMON AREAS (TRACT B)	3.8472 AC
AREA OF RESIDENTIAL	14.1907 AC
ZONE ATLAS NO.	N-9-Z
NO. OF LOTS CREATED	80 LOTS
NO. OF TRACTS CREATED	2 TRACTS
ZONING	SU-1 MIXED USE
DATE OF SURVEY	FEBRUARY, 2015

PURPOSE OF PLAT

- SUBDIVIDE LOT 34D-1-A, LANDS OF SALAZAR FAMILY TRUST, SALAZAR QUATRO TRUST, JSJ INVESTMENT COMPANY AND FALBA HANNETT AND LANDS OF CURB INC., INTO 80 RESIDENTIAL LOTS, 2 TRACTS (1 COMMERCIAL).
- DEDICATE PRIVATE ROADWAY & PUBLIC RIGHT-OF-WAY AS SHOWN.
- GRANT NEW EASEMENTS AS SHOWN.

NOTES

- UNLESS OTHERWISE NOTED, ALL BOUNDARY CORNERS SHOWN THUS SHALL BE A SET #4 REBAR WITH YELLOW PLASTIC CAP "N.M.P.S. 11993"
- ALL STREET CENTERLINE MONUMENTATION SHALL BE INSTALLED AT ALL CENTERLINE P.C.'S, P.T.'S, ANGLE POINTS, AND STREET INTERSECTIONS AND SHOWN THUS WILL BE MARKED BY A FOUR INCH (4") ALUMINUM CAP STAMPED:
"CITY OF ALBUQUERQUE CENTERLINE MONUMENTATION"
"DO NOT DISTURB"
N.M.P.S.#11993
- FIELD SURVEY PERFORMED ON FEBRUARY, 2015.
- ALL BEARINGS ARE GRID BEARINGS. NM STATE PLANE; CENTRAL ZONE-NAD 1983.
- BOUNDARY SHALL BE TIED TO THE NEW MEXICO STATE PLANE COORDINATE SYSTEM AS SHOWN.
- THIS PROPERTY LIES WITHIN THE SECTION 4, TOWNSHIP 9 NORTH, RANGE 2 EAST, NEW MEXICO PRINCIPAL MERIDIAN, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.
- ALL DISTANCES ARE GROUND DISTANCES: U.S. SURVEY
- MANHOLES WILL BE OFFSET AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY, STREET INTERSECTIONS, AND ALL OTHER ANGLE POINTS TO ALLOW USE OF CENTERLINE MONUMENTATION.
- PLAT SHOWS ALL EASEMENTS OF RECORD.
- EASEMENT BEARINGS AND DISTANCES SHOWN HEREON ARE RECORD AND EASEMENTS HAVE BEEN ROTATED TO MATCH BASIS OF BEARINGS AND BOUNDARY UNLESS OTHERWISE INDICATED.
- UPC #
- NEW EASEMENTS 9 THROUGH 17 ARE FOR THE BENEFIT OF ALL PROPERTY OWNERS WITHIN THE LOS DIAMANTES SUBDIVISION. THE MAINTENANCE RESPONSIBILITIES FOR EACH EASEMENT IS DEFINED BY THE ENTITY IN PARENTHESES NEXT TO THE EASEMENT.

OWNERS

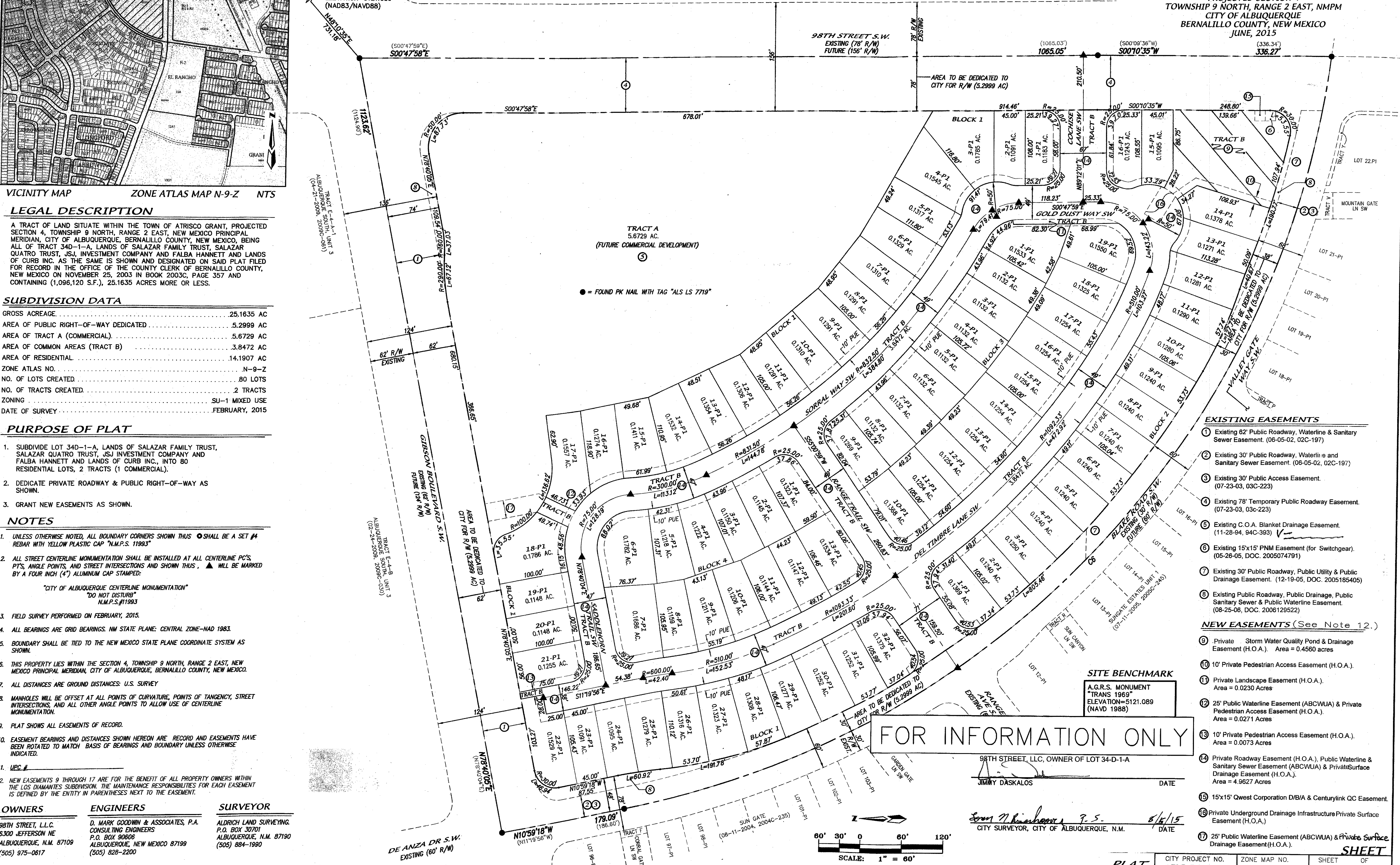
98TH STREET, L.L.C.
6300 JEFFERSON NE
ALBUQUERQUE, N.M. 87109
(505) 975-0617

ENGINEERS

D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90066
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

SURVEYOR

ALDRICH LAND SURVEYING
P.O. BOX 30701
ALBUQUERQUE, N.M. 87190
(505) 884-1990



EXISTING EASEMENTS

- Existing 62' Public Roadway, Waterline & Sanitary Sewer Easement. (06-05-02, 02C-197)
- Existing 30' Public Roadway, Waterline and Sanitary Sewer Easement. (06-05-02, 02C-197)
- Existing 30' Public Access Easement. (07-23-03, 03C-223)
- Existing 78' Temporary Public Roadway Easement. (07-23-03, 03C-223)
- Existing C.O.A. Blanket Drainage Easement. (11-28-84, 94C-393)
- Existing 15'x15' PNM Easement (for Switchgear). (05-26-05, DOC. 2005074791)
- Existing 30' Public Roadway, Public Utility & Public Drainage Easement. (12-19-05, DOC. 2005185405)
- Existing Public Roadway, Public Drainage, Public Sanitary Sewer & Public Waterline Easement. (08-25-08, DOC. 2006129522)

NEW EASEMENTS (See Note 12.)

- Private Storm Water Quality Pond & Drainage Easement (H.O.A.). Area = 0.4560 acres
- 10' Private Pedestrian Access Easement (H.O.A.).
- Private Landscape Easement (H.O.A.). Area = 0.0230 Acres
- 25' Public Waterline Easement (ABCWUA) & Private Pedestrian Access Easement (H.O.A.). Area = 0.0271 Acres
- 10' Private Pedestrian Access Easement (H.O.A.). Area = 0.0073 Acres
- Private Roadway Easement (H.O.A.), Public Waterline & Sanitary Sewer Easement (ABCWUA) & Private Surface Drainage Easement (H.O.A.). Area = 4.9627 Acres
- 15'x15' Qwest Corporation D/B/A & Centurylink QC Easement.
- Private Underground Drainage Infrastructure Private Surface Easement (H.O.A.).
- 25' Public Waterline Easement (ABCWUA) & Private Surface Drainage Easement (H.O.A.).

SITE BENCHMARK

A.G.R.S. MONUMENT
TRANS 1969
ELEVATION=5121.089
(NAVD 1988)

FOR INFORMATION ONLY

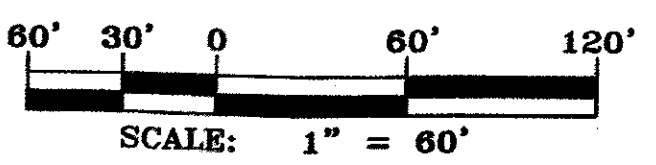
98TH STREET, L.L.C., OWNER OF LOT 34-D-1-A

JIMMY DASKALOS

DATE

City Surveyor, City of Albuquerque, N.M.

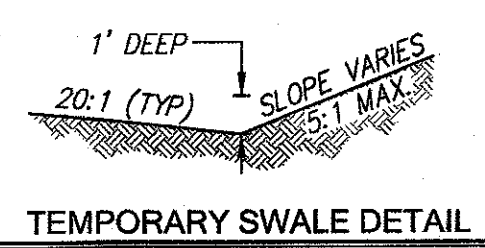
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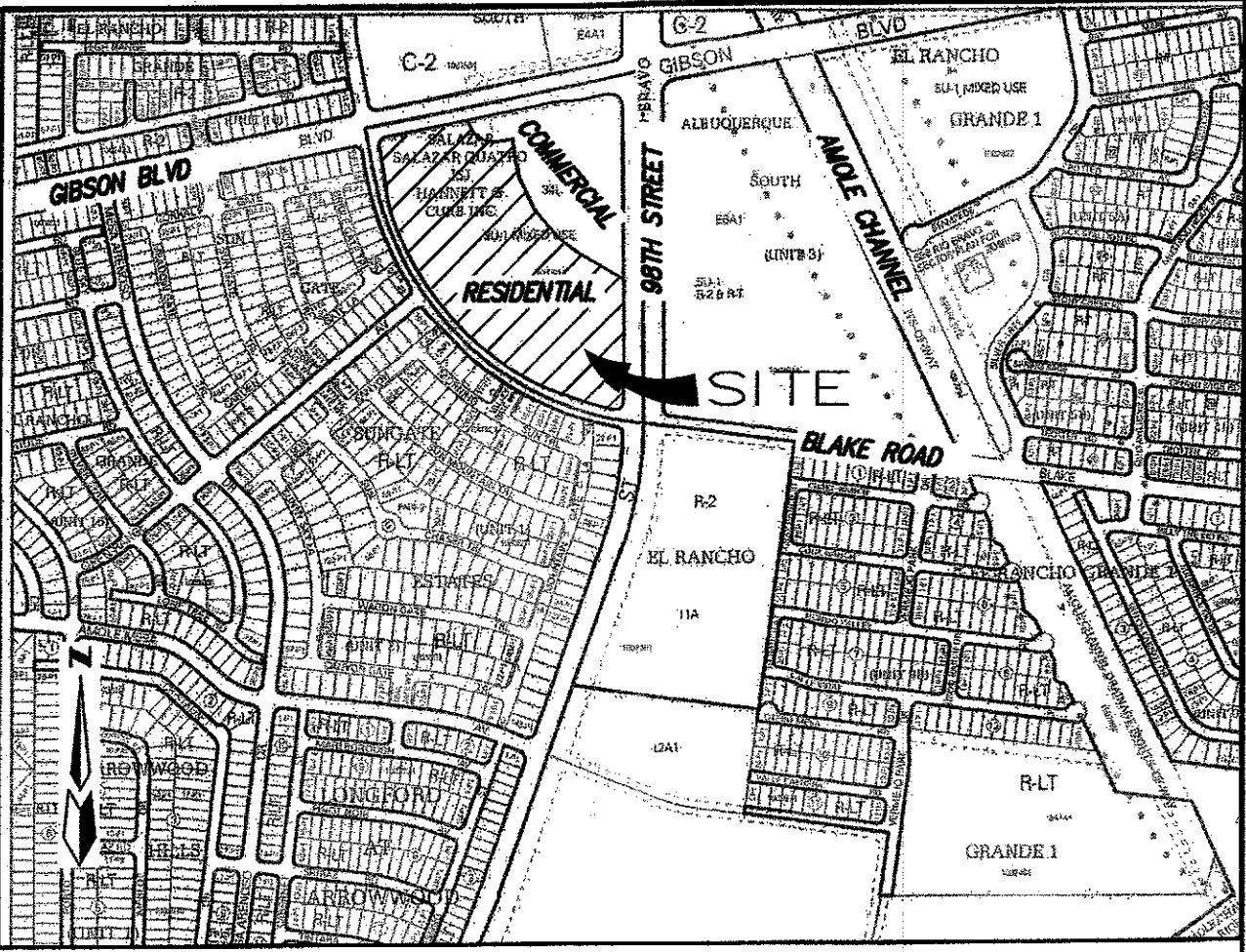
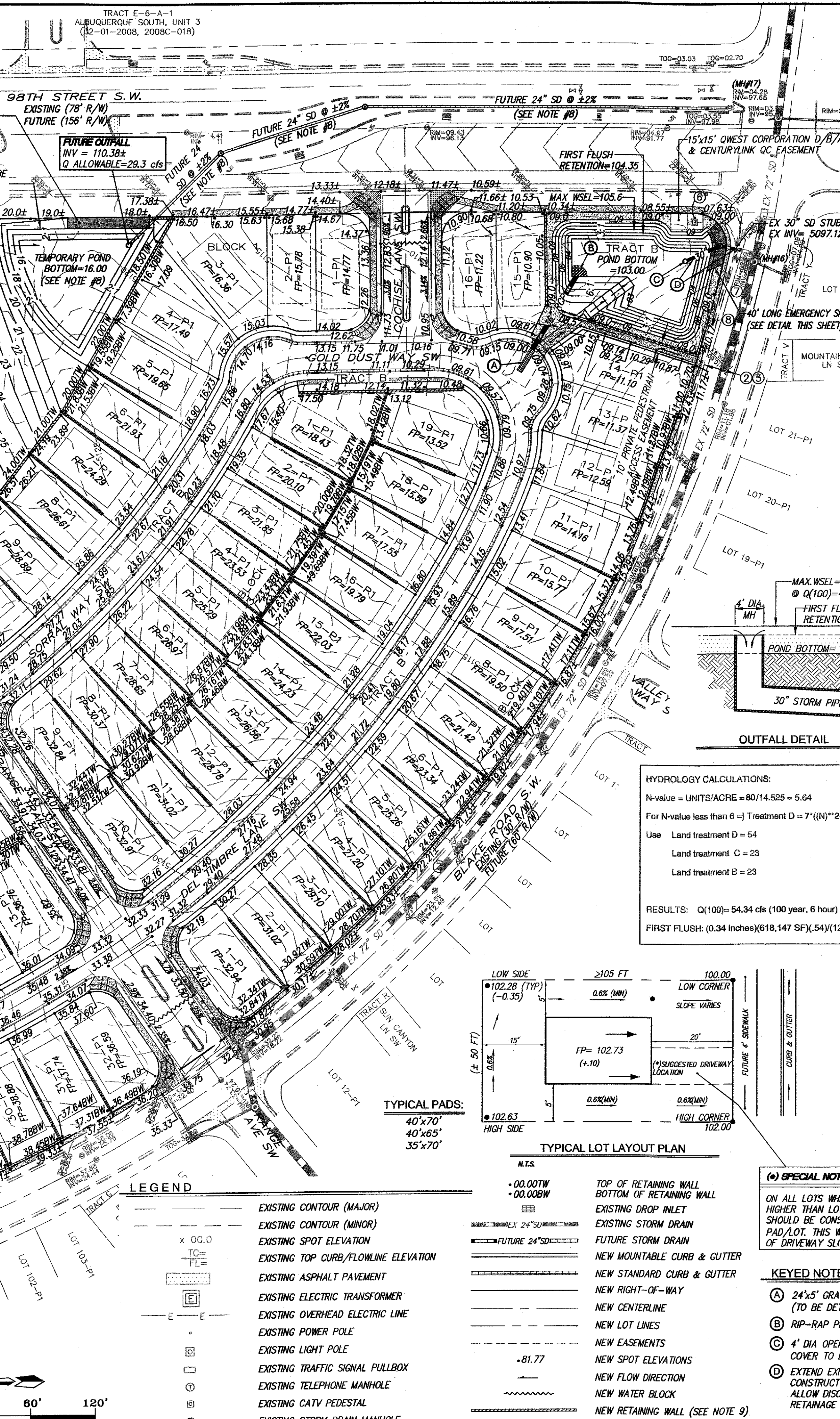
EXISTING EASEMENTS

- EXISTING 62' PUBLIC ROADWAY, WATERLINE AND SANITARY SEWER EASEMENT (06-05-02, 02C-197)
- EXISTING 30' PUBLIC ROADWAY, WATERLINE AND SANITARY SEWER EASEMENT (06-05-02, 02C-197)
- EXISTING 30' PUBLIC ACCESS EASEMENT (07-23-03, 03C-223)
- EXISTING 78' TEMPORARY PUBLIC ROADWAY EASEMENT (07-23-03, 03C-223)
- EXISTING C.O.A. BLANKET DRAINAGE EASEMENT (11-28-04, 04C-395) (TO BE REACATED EXCEPT WITHIN TRACT A TO REMAIN)
- EXISTING 15'x15' PNM EASEMENT (FOR SWITCHGEAR) (05-26-05, DOC. 2005074791)
- EXISTING 30' PUBLIC ROADWAY, PUBLIC UTILITY & PUBLIC DRAINAGE EASEMENT (12-19-05, DOC. 2005185405)
- EXISTING PUBLIC ROADWAY, PUBLIC DRAINAGE, PUBLIC SANITARY SEWER & PUBLIC WATERLINE EASEMENT (08-25-06, DOC. 2006129522)

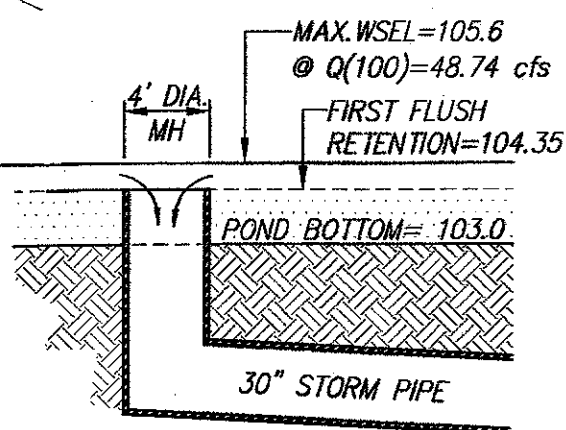
TEMPORARY POND SPECS
DESIGN VOLUME= 15,189 cu.ft.
REQUIRED VOLUME= 13,874 cu.ft.
TOP POND= 18.00
BOTTOM POND= 16.0
MAX. WSEL (100 yr)= 17.84'
MAX. Q100= 10.6 c.f.s.



TRACT A
(FUTURE COMMERCIAL DEVELOPMENT)



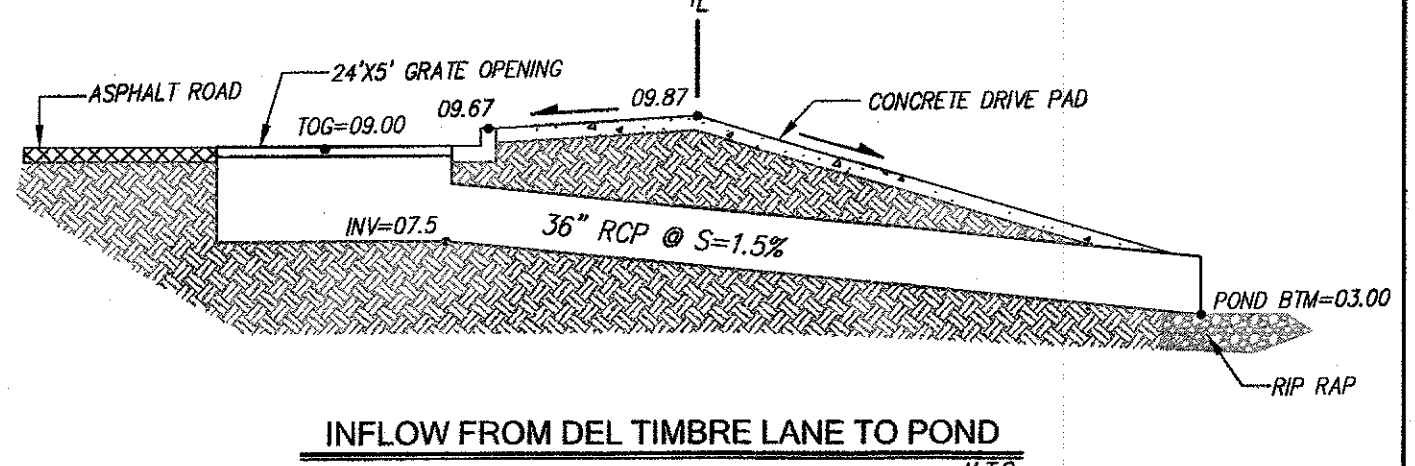
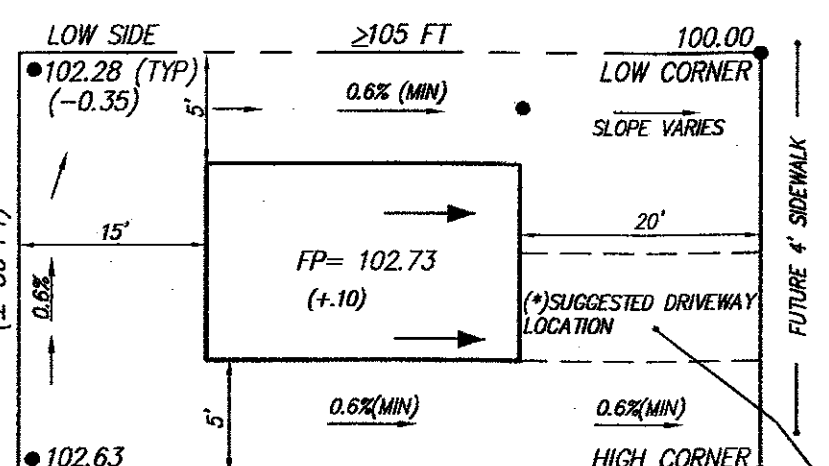
- NOTES**
- CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
 - CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION SHALL GOVERN ALL WORK.
 - THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE 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 MATTING 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.
 - FUTURE 24" STORM DRAIN ON INFRASTRUCTURE LIST WILL NOT BE CONSTRUCTED UNTIL SITE PLAN FOR TRACT A IS DESIGNED AND APPROVED. TEMPORARY RETENTION POND WILL BE CONSTRUCTED ONLY.
 - COMBINATION GARDEN WALL/RETAINING WALL CANNOT EXCEED 8 FEET. IF FALL ACROSS PROPERTY BOUNDARY IS GREATER THAN 4', USE A COMBINATION 4' RETAINING WALL (MAX) AND 3:1 SIDE SLOPES IN BACKYARD TO MAKE UP THE DIFFERENCE IN DROP.



EMERGENCY SPILLWAY DETAIL FOR TRACT B
N.T.S.

HYDROLOGY CALCULATIONS:
N-value = UNITS/ACRE = 80/14.525 = 5.64
For N-value less than 6 -> Treatment D = 7" (N)"2+(6"N)"0.5 = 54
Use Land treatment D = 54
Land treatment C = 23
Land treatment B = 23

RESULTS: Q(100)= 54.34 cfs (100 year, 6 hour)
FIRST FLUSH: (0.34 inches)(618,147 SF)(.54)/(12 inches per foot)=9,458 cu.ft.



LEGEND

- EXISTING CONTOUR (MAJOR)
- EXISTING CONTOUR (MINOR)
- EXISTING SPOT ELEVATION
- EXISTING TOP CURB/FLOWLINE ELEVATION
- 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

- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- EXISTING DROP INLET
- EXISTING STORM DRAIN
- FUTURE STORM DRAIN
- NEW MOUNTABLE CURB & GUTTER
- NEW STANDARD CURB & GUTTER
- NEW RIGHT-OF-WAY
- NEW CENTERLINE
- NEW LOT LINES
- NEW EASEMENTS
- NEW SPOT ELEVATIONS
- NEW FLOW DIRECTION
- NEW WATER BLOCK
- NEW RETAINING WALL (SEE NOTE 9)
- NEW STORM DRAIN

(*) SPECIAL NOTE FOR DRIVEWAYS
ON ALL LOTS WHERE FINISHED PAD IS > 2.0 FEET HIGHER THAN LOW CORNER OF LOT, DRIVEWAY SHOULD BE CONSTRUCTED ON HIGH SIDE OF PAD/LOT. THIS WILL HELP MINIMIZE THE STEEPNESS OF DRIVEWAY SLOPE.

- KEYED NOTES:**
- 24"x5' GRATE OPENING (TO BE DETAILED AT DRC)
 - RIP-RAP PROTECTED
 - 4' DIA OPENING-OUTFALL STRUCTURE (GRATE COVER TO BE DESIGNED AT DRC)
 - EXTENDING EXISTING 30" SD TO POND CONSTRUCT OUTFALL STRUCTURE TO ALLOW DISCHARGE OF Q100=48.74 cfs RETAINANCE OF FIRST FLUSH TO ELE=104.

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

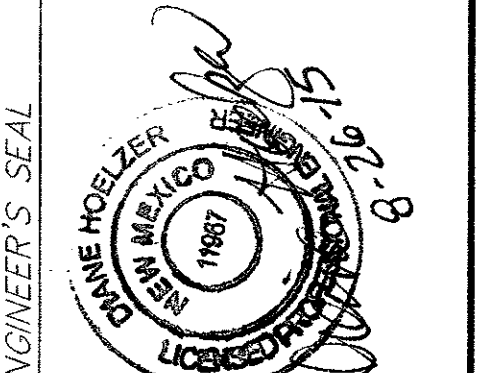
LOS DIAMANTES SUBDIVISION
GRADING & DRAINAGE PLAN

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

FOR INFORMATION ONLY

CITY PROJECT NO. **722778** ZONE MAP NO. **N-8** SHEET **3** OF **17**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY	
CONTRACTOR	DATE	WORK	DATE	NO.	BY	DATE	NO.	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
AGRS Brass Cap stamped "TRANS 1969"		From the intersection of Central Avenue and 98th Street SW go south on 98th Street 2.0 miles to PNM Electric Substation on the left. The station is east of the substation and south of PNM pylon 52.								DMG	10/14	DMG	10/14	DMG	10/14



DATE 10/14/14

DATE 10/14/14

DATE 10/14/14

DATE 10/14/14

DATE 10/14/14

DATE 10/14/14

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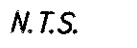
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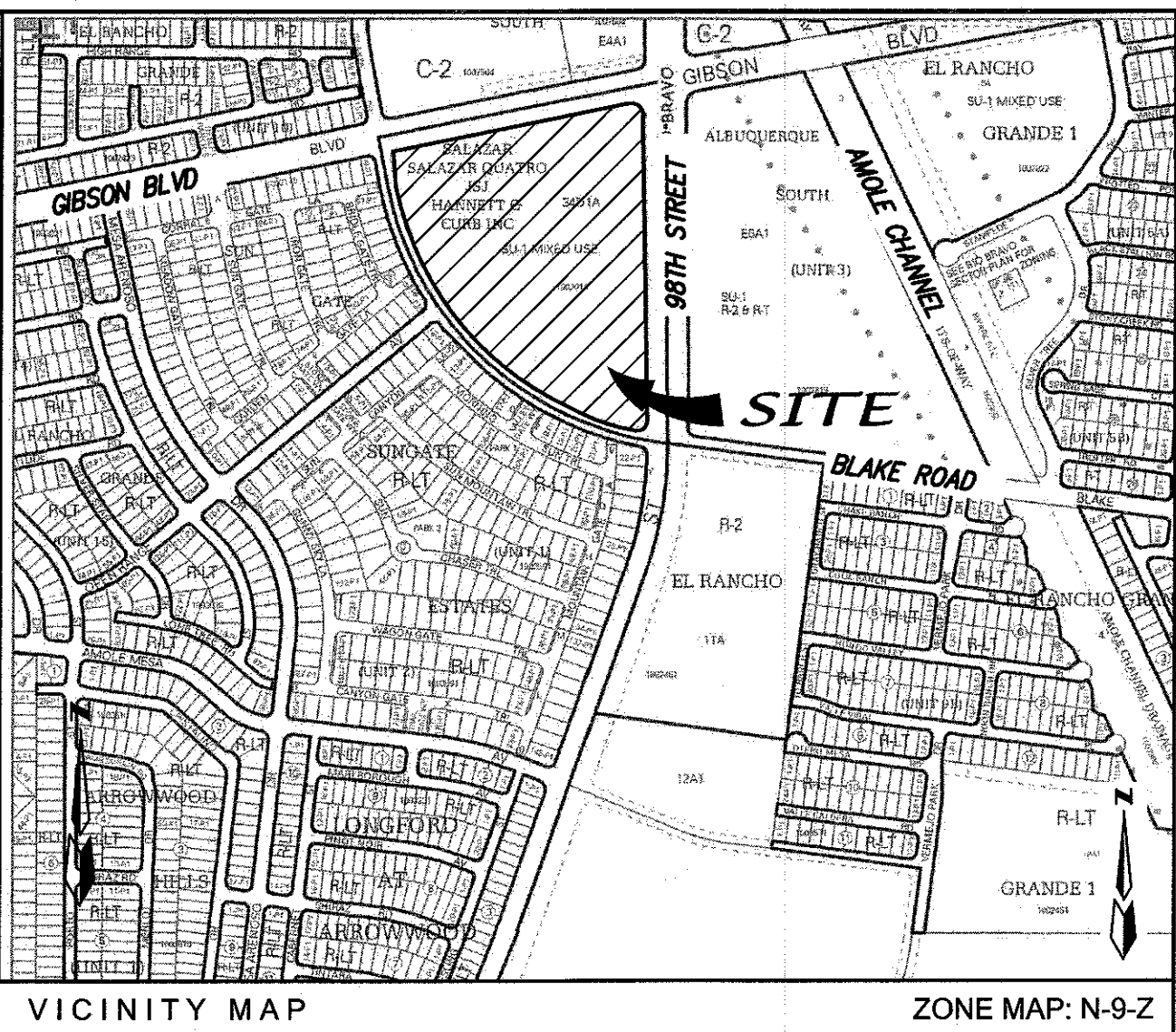
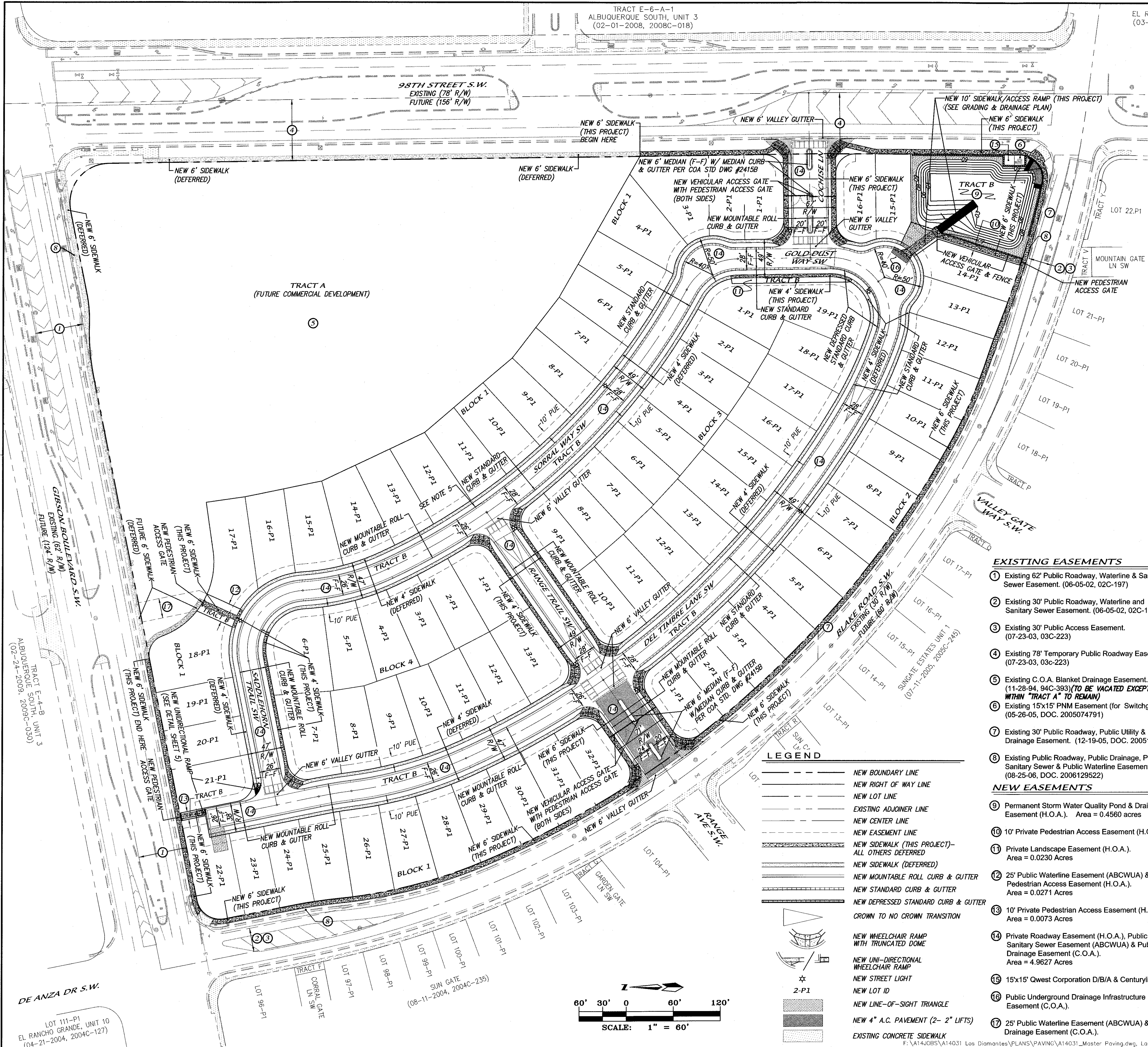
DATE 10/14/14

DATE 10/14/14

DATE 10/14/14

DATE 10/14/14





CONSTRUCTION NOTES

- ALL SIDEWALKS PER CITY OF ALBUQUERQUE STANDARD DWG #2430.
- ALL 6" VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DWG #2420.
- ALL HANDICAP RAMPS ARE PER CITY OF ALBUQUERQUE STANDARD DWG #2441, CASE II, UNLESS OTHERWISE NOTED, WITH ADA COMPLIANT DETECTABLE WARNING SURFACES TO BE CAST IN PLACE AND REPLACEABLE. SUBMIT SPECIFICATIONS TO ENGINEER PRIOR TO CONSTRUCTION.
- TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50 FEET PER CITY OF ALBUQUERQUE STANDARD DWG #2401.
- TRANSITION FROM MOUNTABLE ROLL CURB AND GUTTER TO STANDARD CURB AND GUTTER SHALL BE 10 FEET WHEN NOT TRANSITIONING AT INTERSECTIONS. TRANSITION FROM MOUNTABLE ROLL CURB TO STANDARD CURB AND GUTTER AT INTERSECTIONS SHALL OCCUR THROUGH THE HC RAMP PER CITY OF ALBUQUERQUE STANDARD DWG #2418.
- SOIL NOT HAVING THE MINIMUM R-VALUE > 50 FOR STREETS SHALL BE REMOVED TO A DEPTH OF 2 FEET AND REPLACED, BY THE CONTRACTOR, WITH SUITABLE MATERIAL OR A PAVEMENT SECTION SHALL BE DESIGNED BY THE CONSULTANT ACCORDING TO THE EXISTING R-VALUE PER CITY OF ALBUQUERQUE STANDARD STANDARD SPECIFICATIONS.
- ALL MOUNTABLE ROLL CURB & GUTTER PER CITY OF ALBUQUERQUE STANDARD DWG #2415A.
- ALL STANDARD CURB & GUTTER PER CITY OF ALBUQUERQUE STANDARD DWG #2415A.
- ALL DEPRESSED STANDARD CURB & GUTTER PER CITY OF ALBUQUERQUE STANDARD DWG #2415A.

EXISTING EASEMENTS

- Existing 62' Public Roadway, Waterline & Sanitary Sewer Easement. (06-05-02, 02C-197)
- Existing 30' Public Roadway, Waterline and Sanitary Sewer Easement. (06-05-02, 02C-197)
- Existing 30' Public Access Easement. (07-23-03, 03C-223)
- Existing 78' Temporary Public Roadway Easement. (07-23-03, 03C-223)
- Existing C.O.A. Blanket Drainage Easement. (11-28-94, 94C-393)(TO BE VACATED EXCEPT WITHIN "TRACT A" TO REMAIN)
- Existing 15'x15' PNM Easement (for Switchgear). (05-26-05, DOC. 2005074791)
- Existing 30' Public Roadway, Public Utility & Public Drainage Easement. (12-19-05, DOC. 2005185405)
- Existing Public Roadway, Public Drainage, Public Sanitary Sewer & Public Waterline Easement. (08-25-06, DOC. 2006129522)

NEW EASEMENTS

- Permanent Storm Water Quality Pond & Drainage Easement (H.O.A.). Area = 0.4560 acres
- 10' Private Pedestrian Access Easement (H.O.A.). Area = 0.0230 Acres
- 25' Public Waterline Easement (ABCWUA) & Private Pedestrian Access Easement (H.O.A.). Area = 0.0271 Acres
- 10' Private Pedestrian Access Easement (H.O.A.). Area = 0.0073 Acres
- Private Roadway Easement (H.O.A.), Public Waterline Sanitary Sewer Easement (ABCWUA) & Public Surface Drainage Easement (C.O.A.). Area = 4.9627 Acres
- 15'x15' Qwest Corporation D/B/A & Centurylink QC Ea
- Public Underground Drainage Infrastructure Easement (C.O.A.).
- 25' Public Waterline Easement (ABCWUA) & Surface Drainage Easement (C.O.A.).

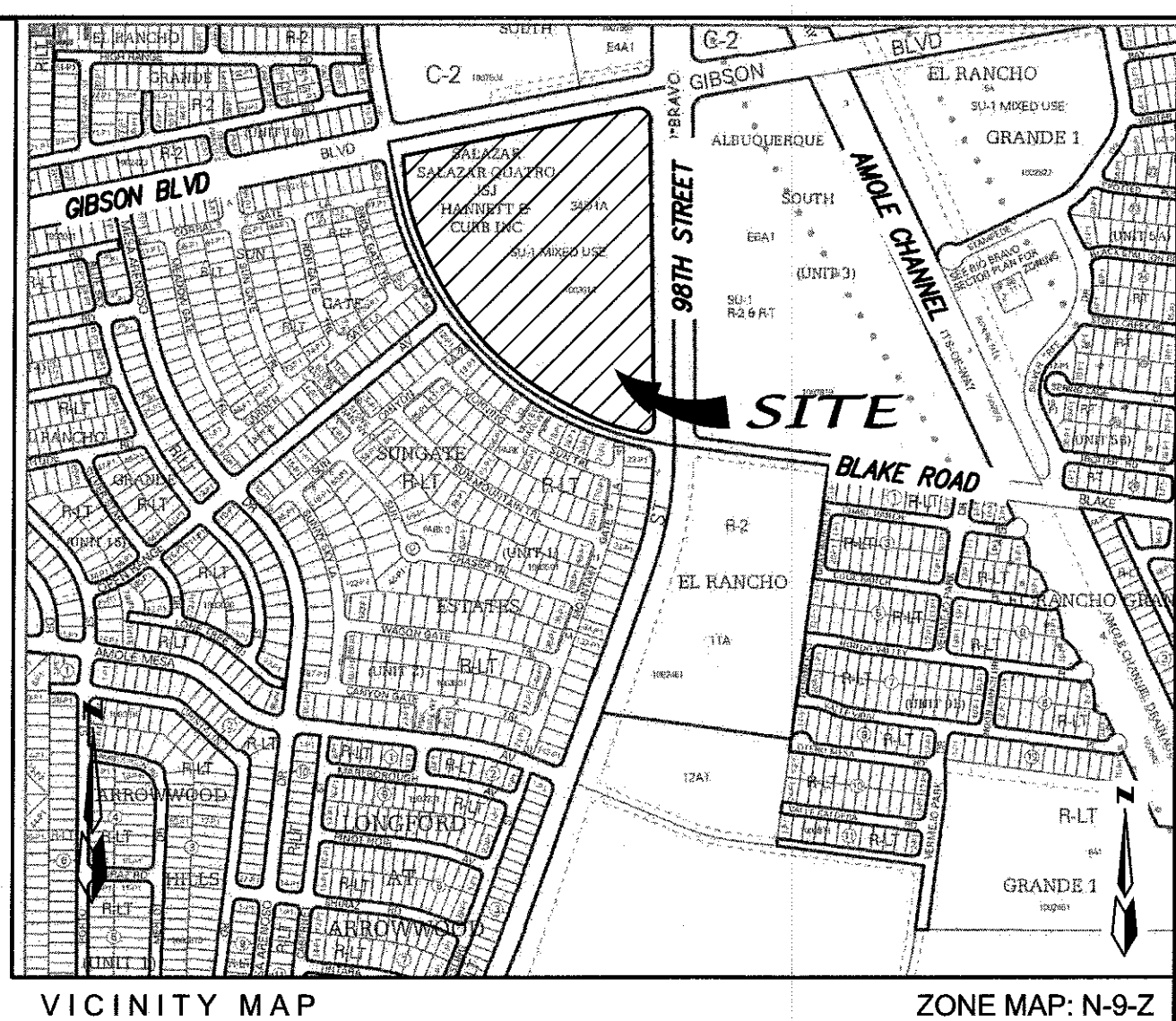
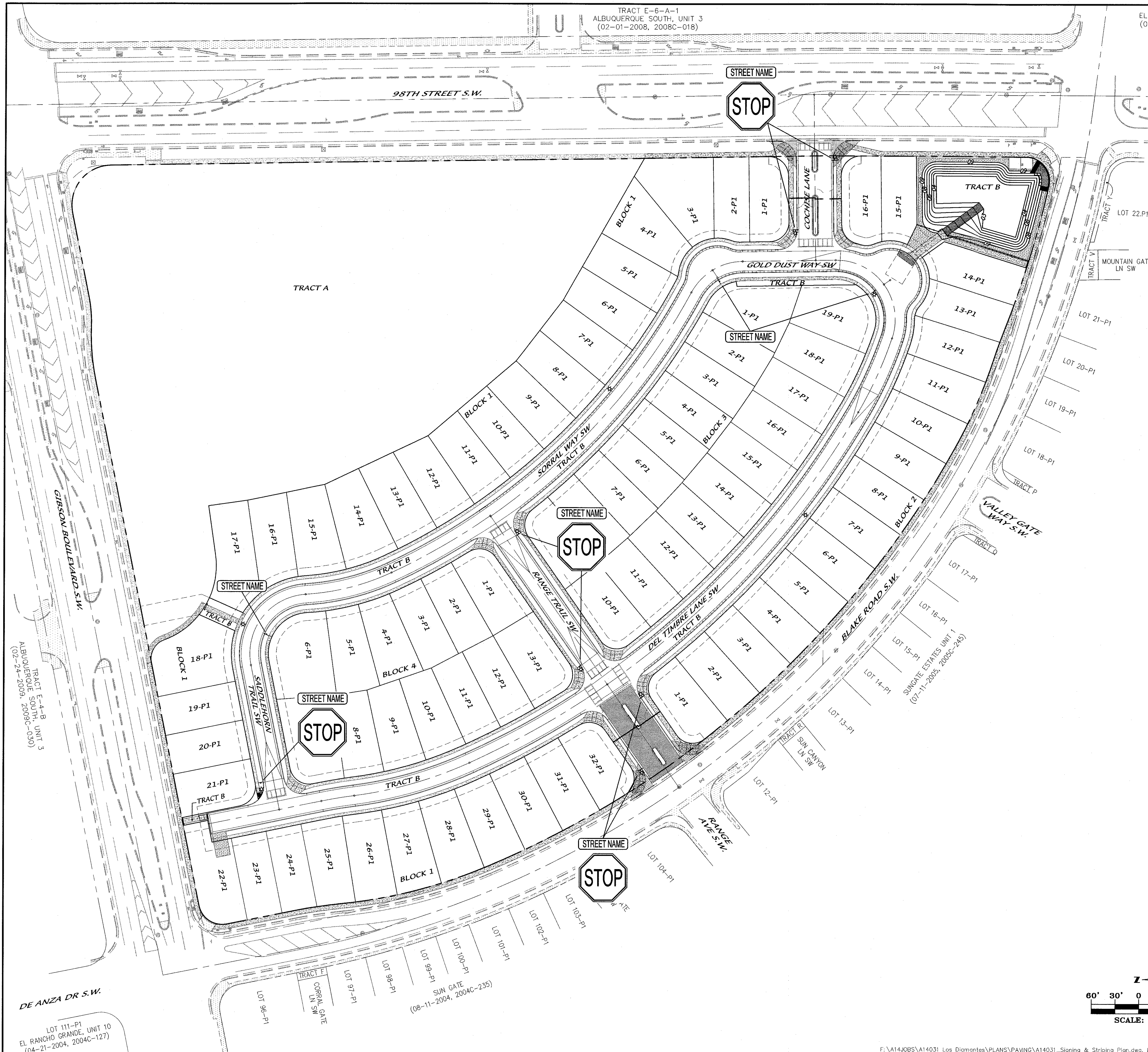
I, Mark Goodwin, NMPE 8848, of the firm, Mark Goodwin & Associates, P.A., a duly Licensed Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Russ Hugg, NMPS number 9750.

Mark Goodwin 1/13/16

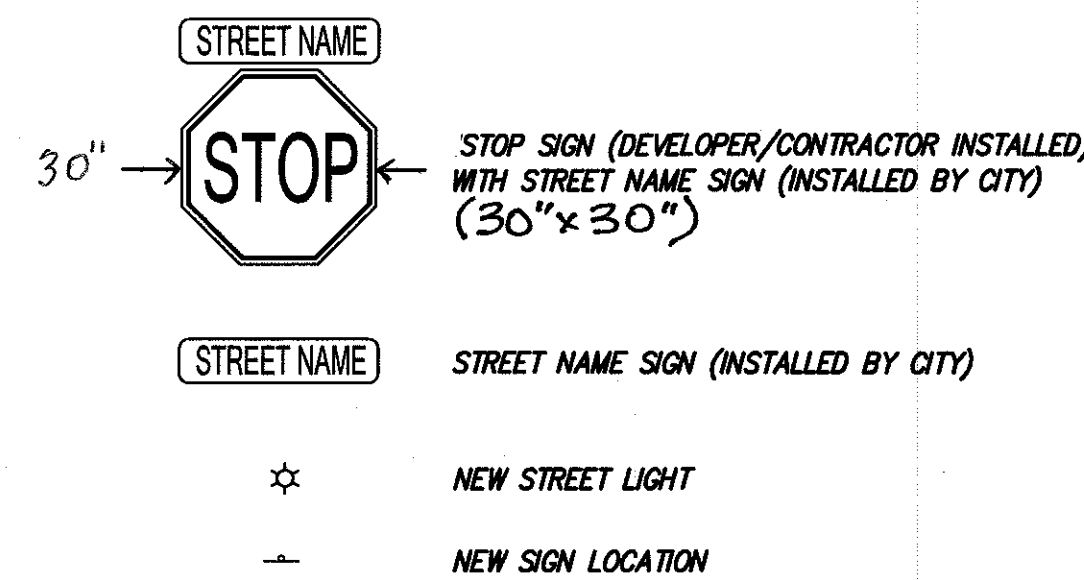
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90806
ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT	
TITLE: LOS DIAMANTES SUBDIVISION MASTER PAVING PLAN	
DESIGN REVIEW COMMITTEE APPROVE FEB 02 2016	CITY ENGINEER APPROVAL APPROVE JAN 05 2017
CITY PROJECT NO. 722778	ZONE-MAP NO. N-9-Z
SHEET 4	OF 17

RECORD DRAWING



SIGNING & STRIPING LEGEND



I, Mark Goodwin, NMPES 8848, of the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Russell, NMPES number 9750.

Mark Goodwin 11/30/17

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **LOS DIAMANTES SUBDIVISION**
SIGNING & STRIPING PLAN

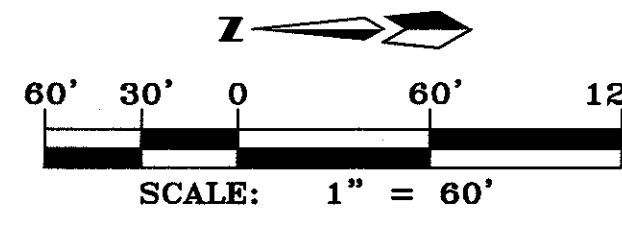
DESIGN REVIEW COMMITTEE
APPROVED
FEB 05 2016
DESIGN REVIEW COMMITTEE

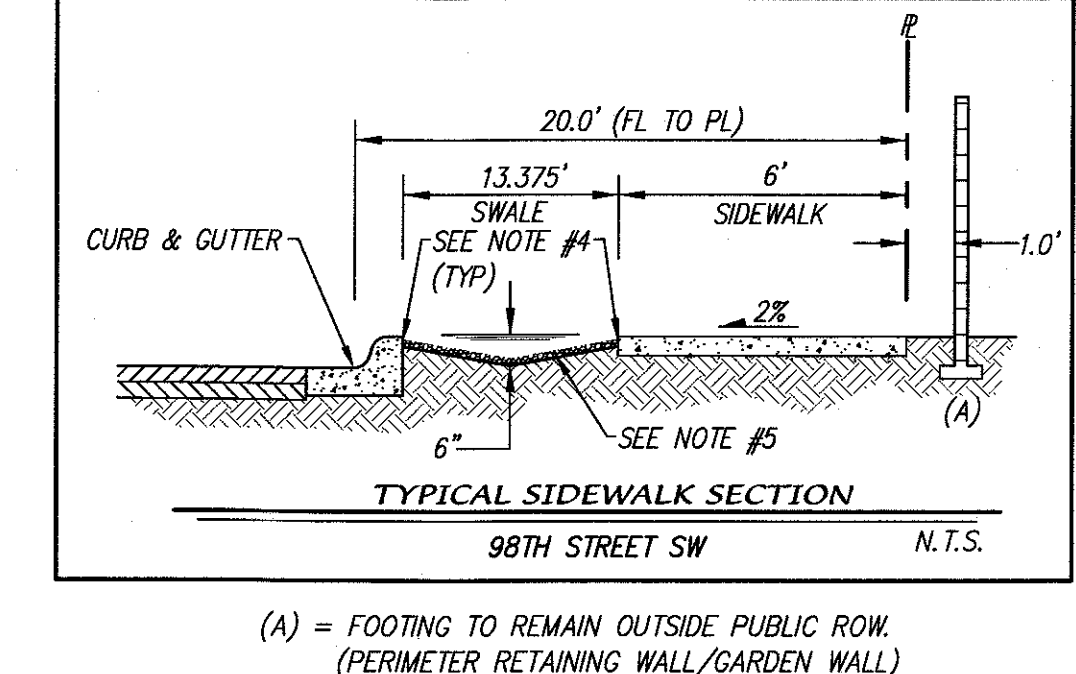
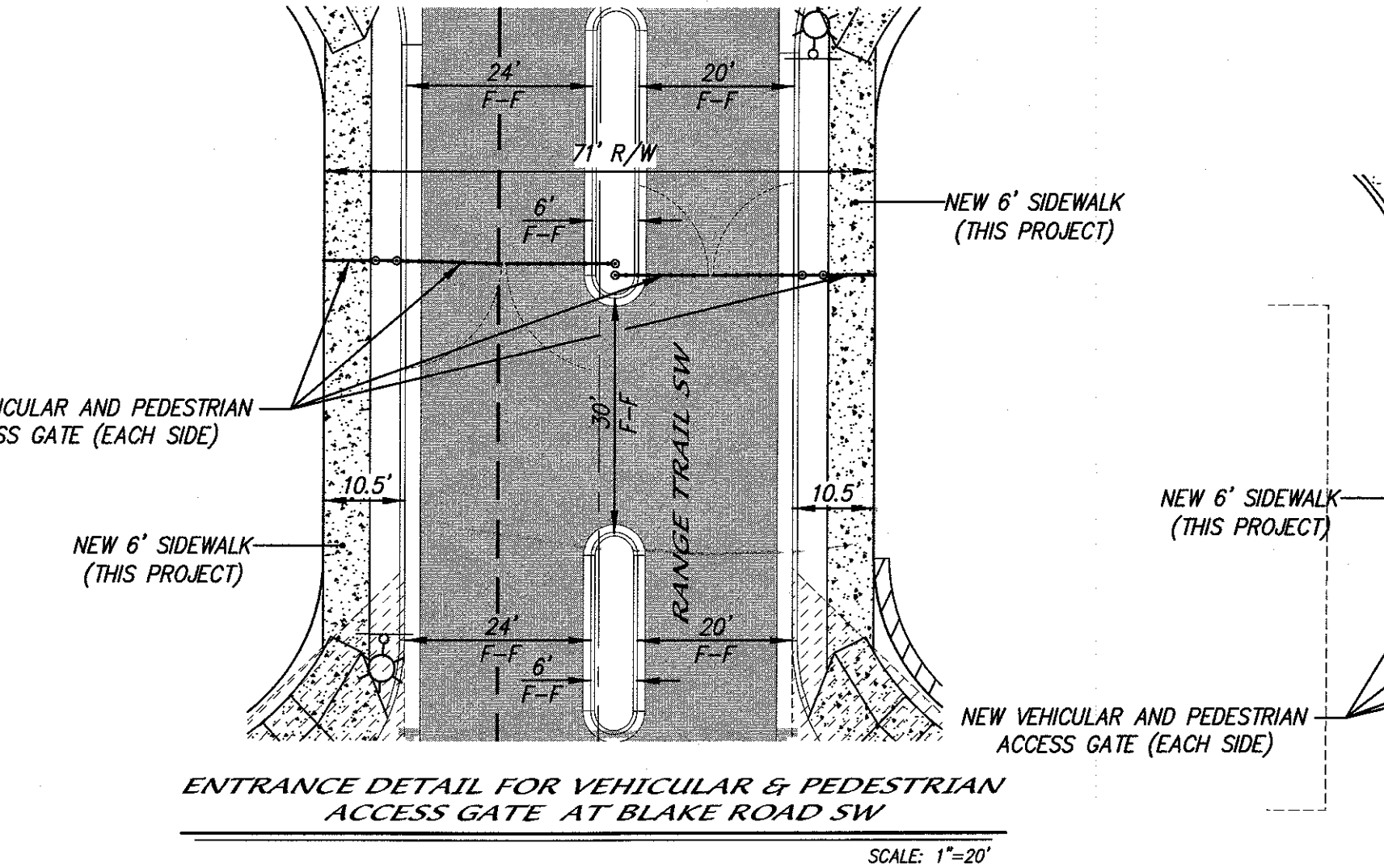
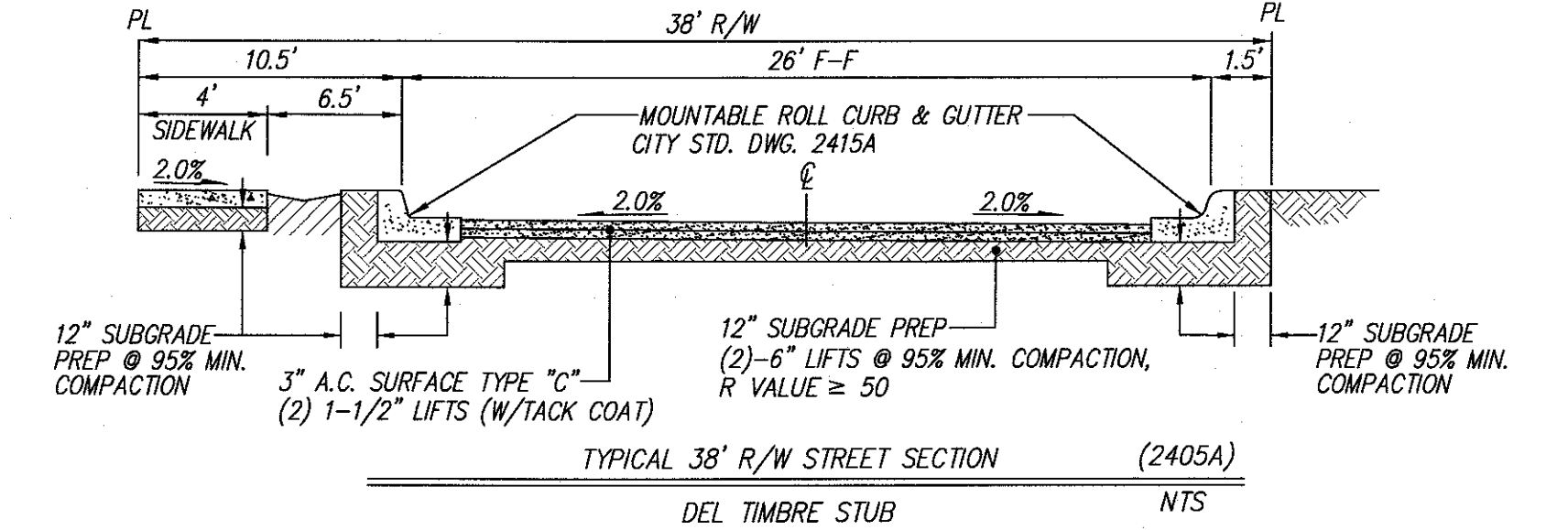
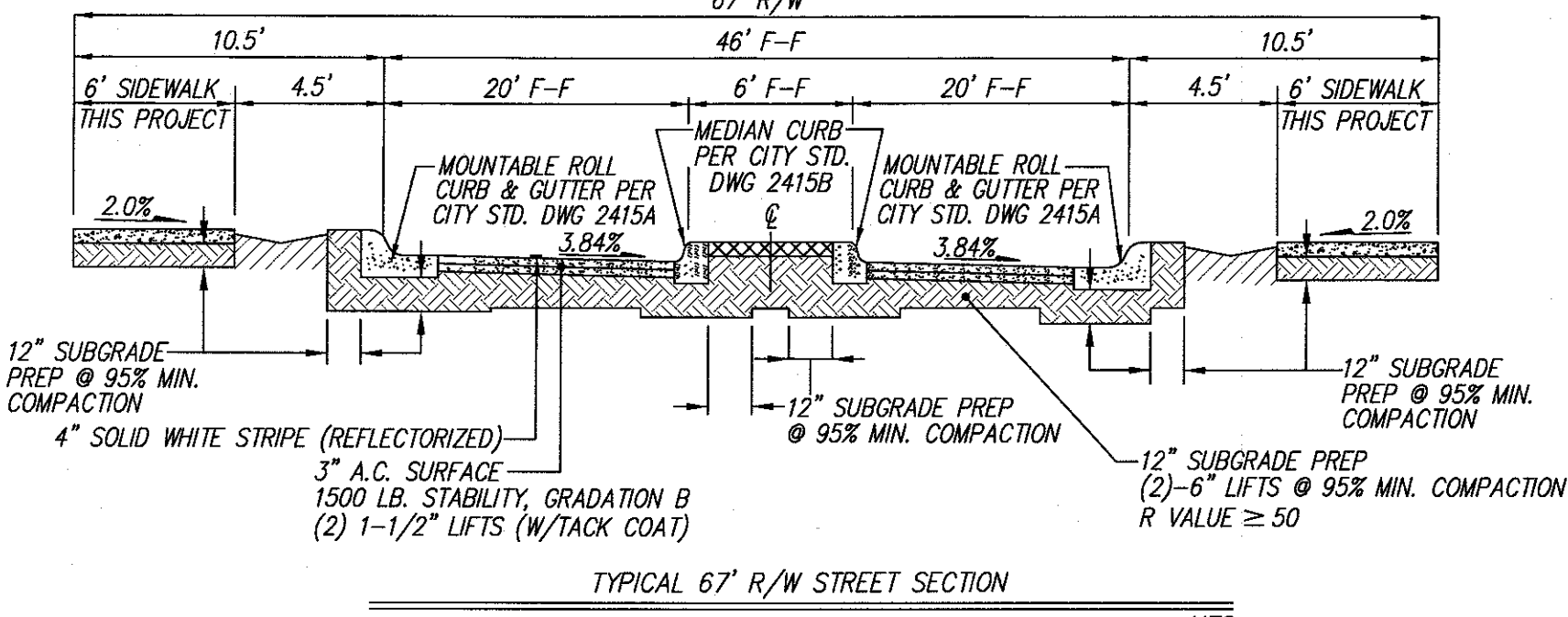
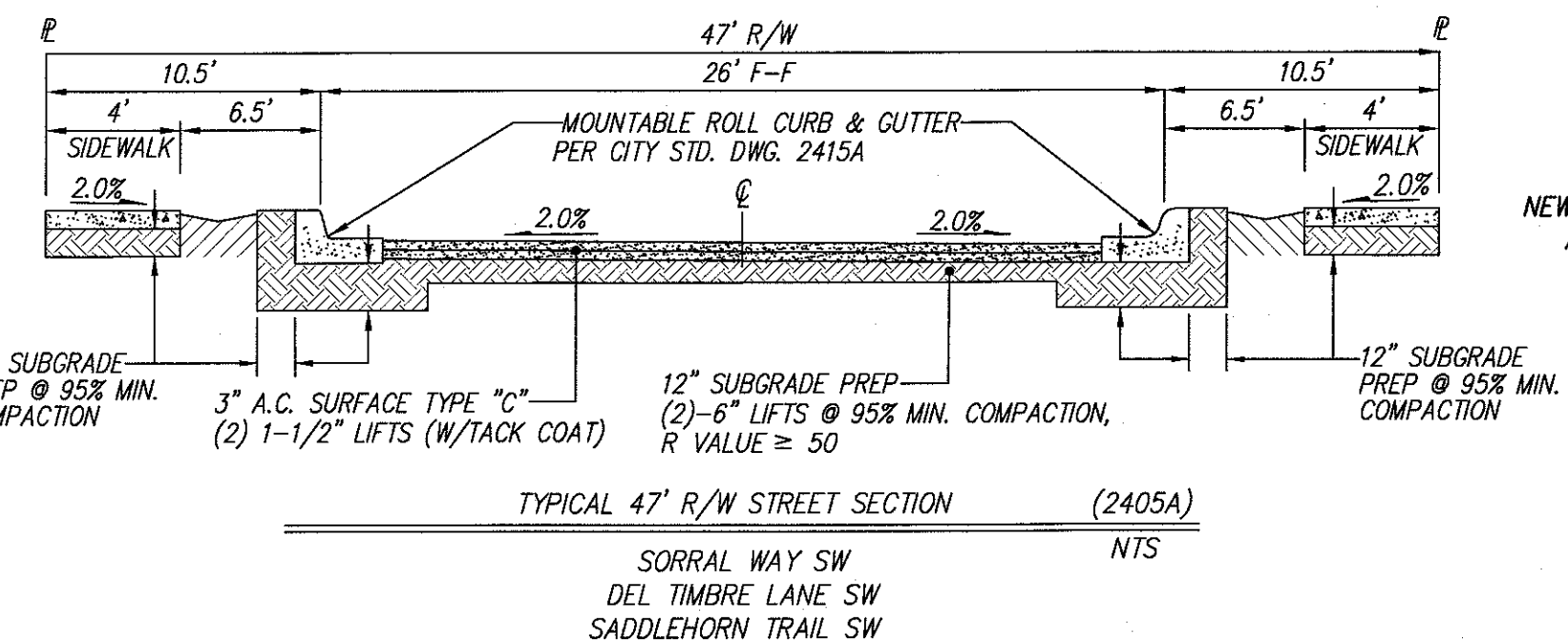
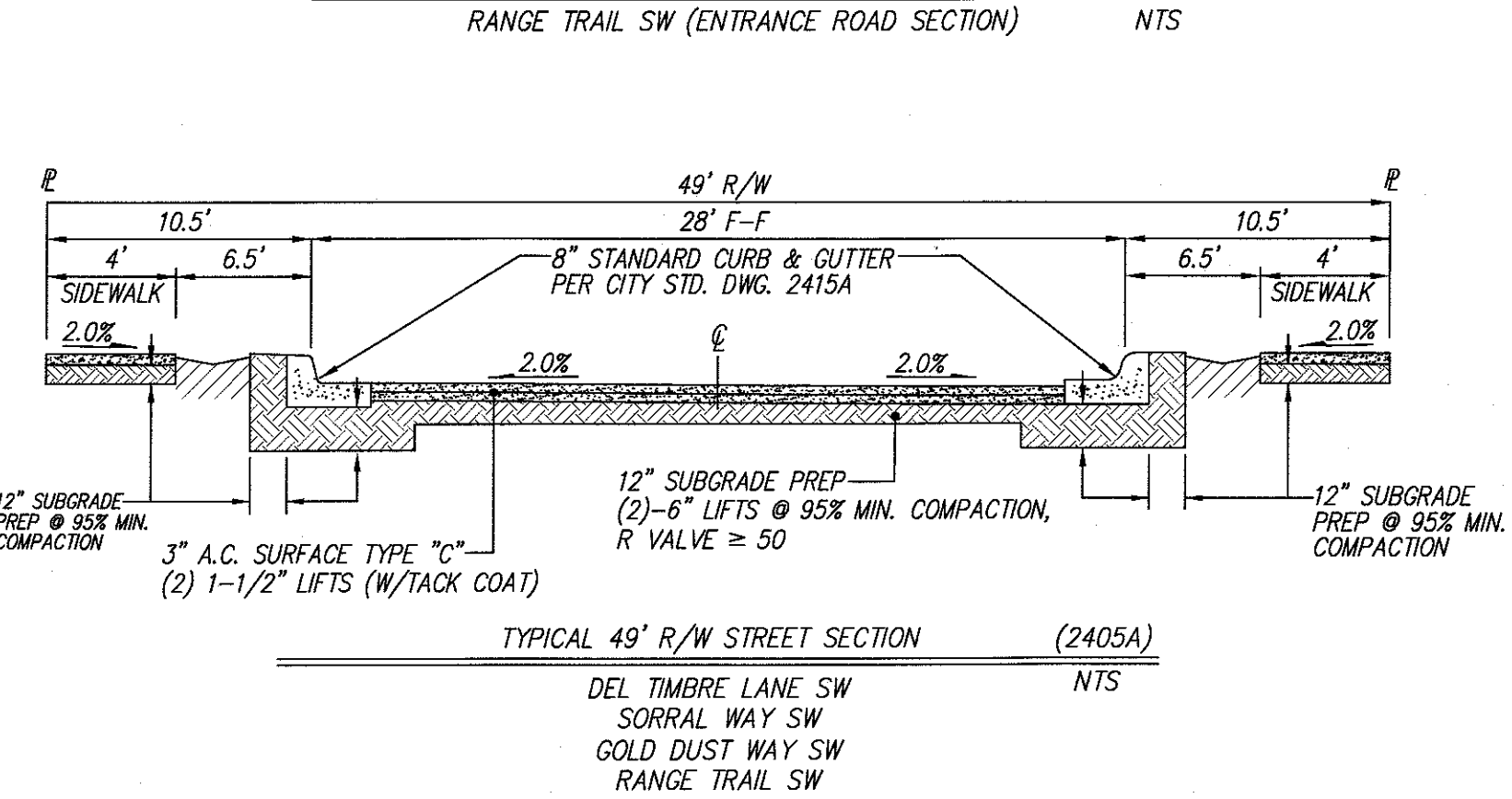
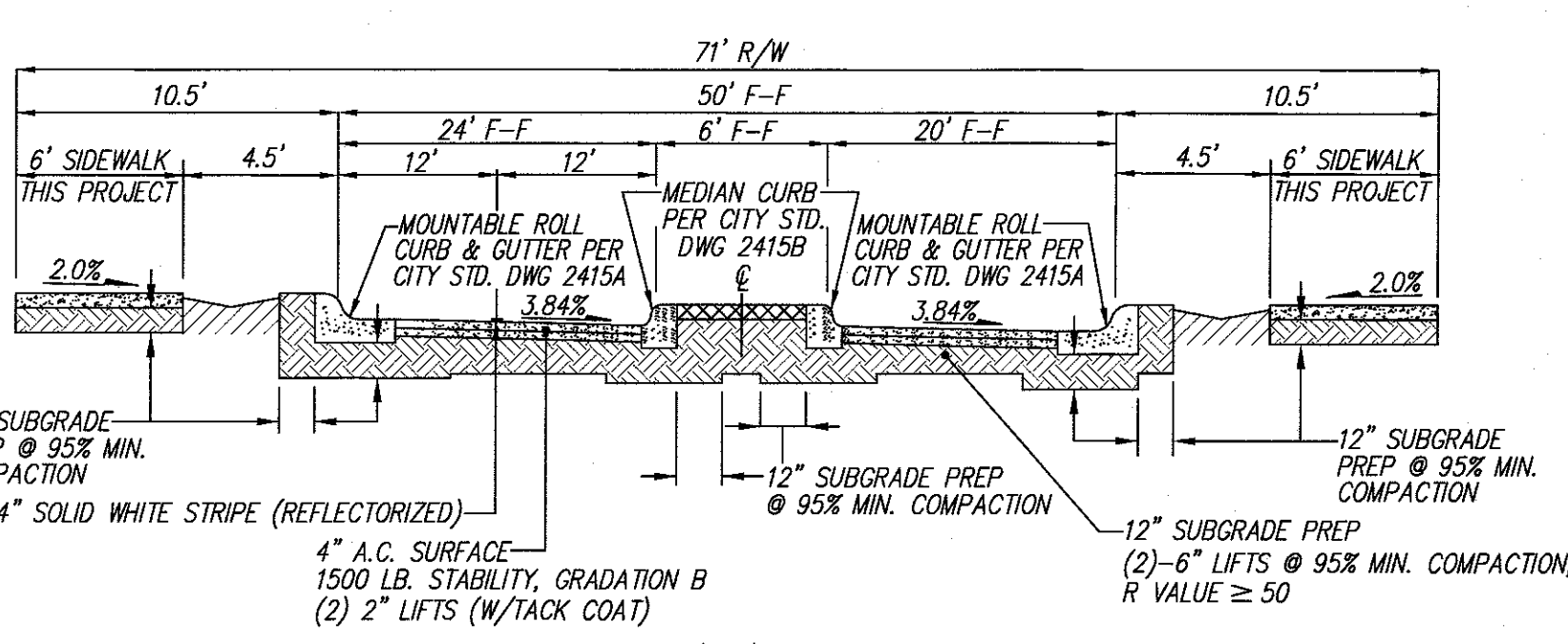
CITY ENGINEER APPROVAL
APPROVED
JAN 05 2017
CITY ENGINEER

LAST DESIGN UPDATE

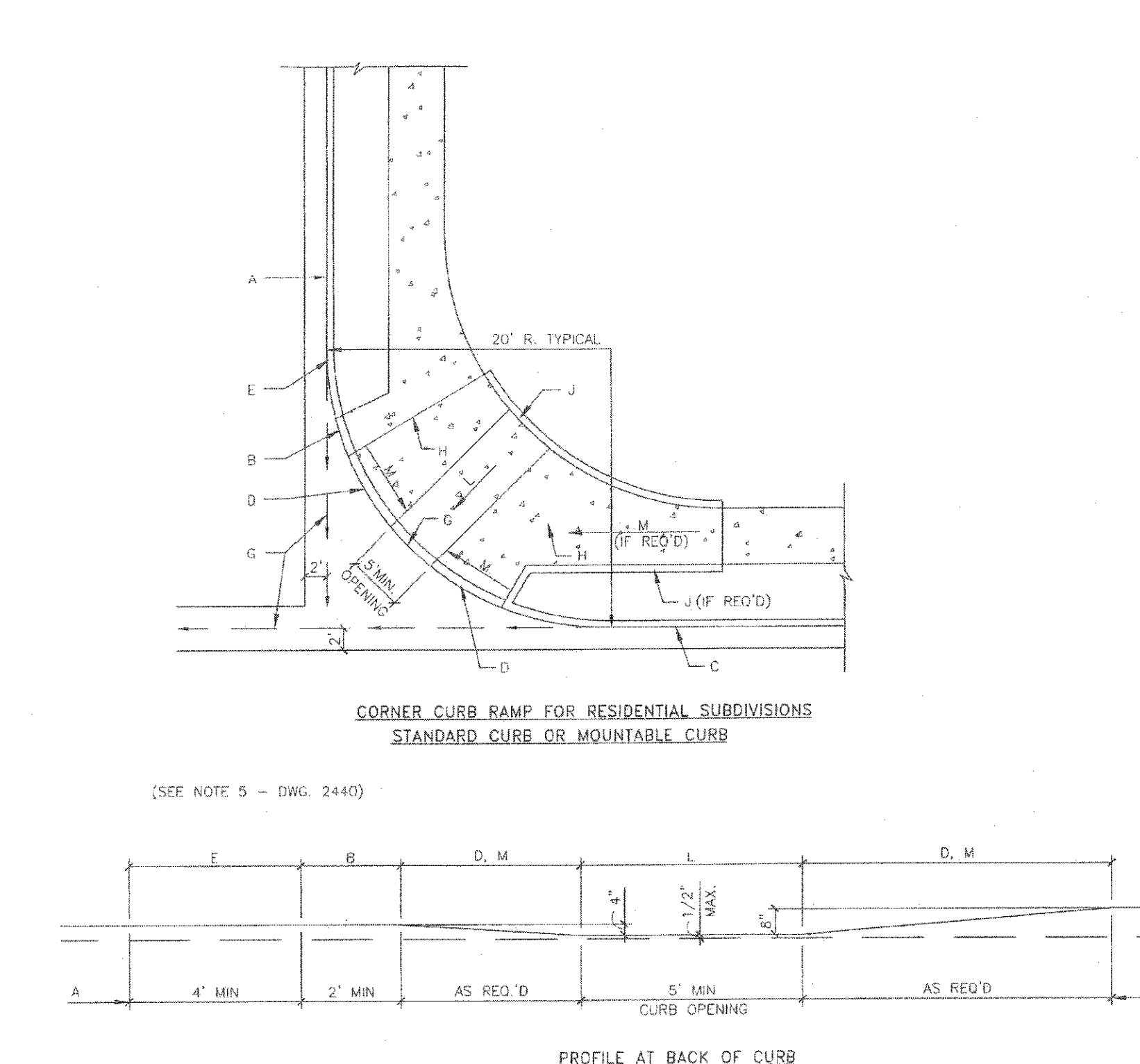
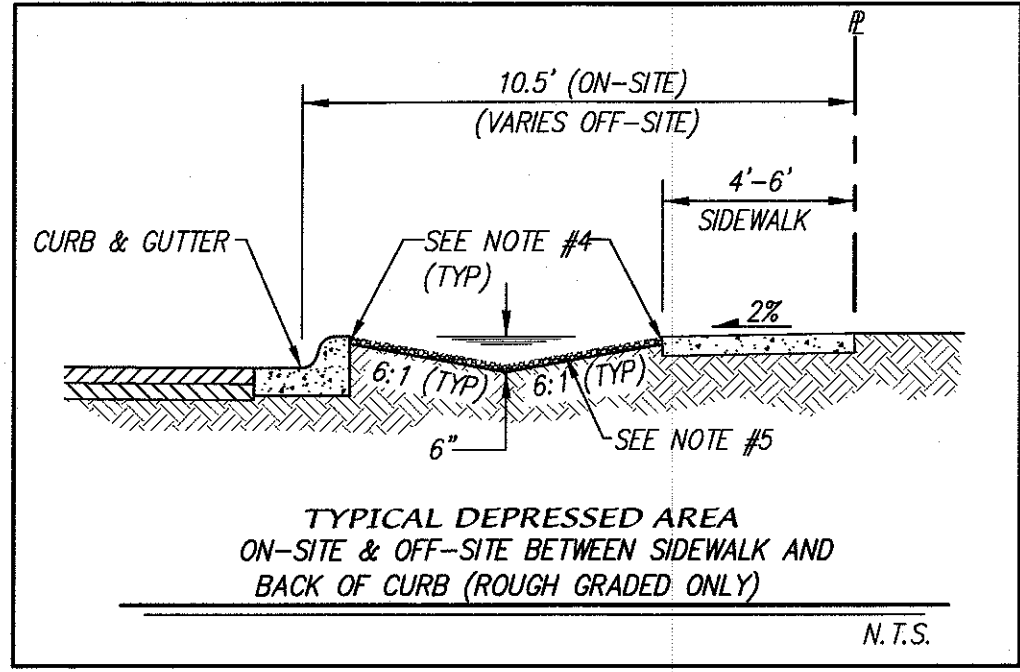
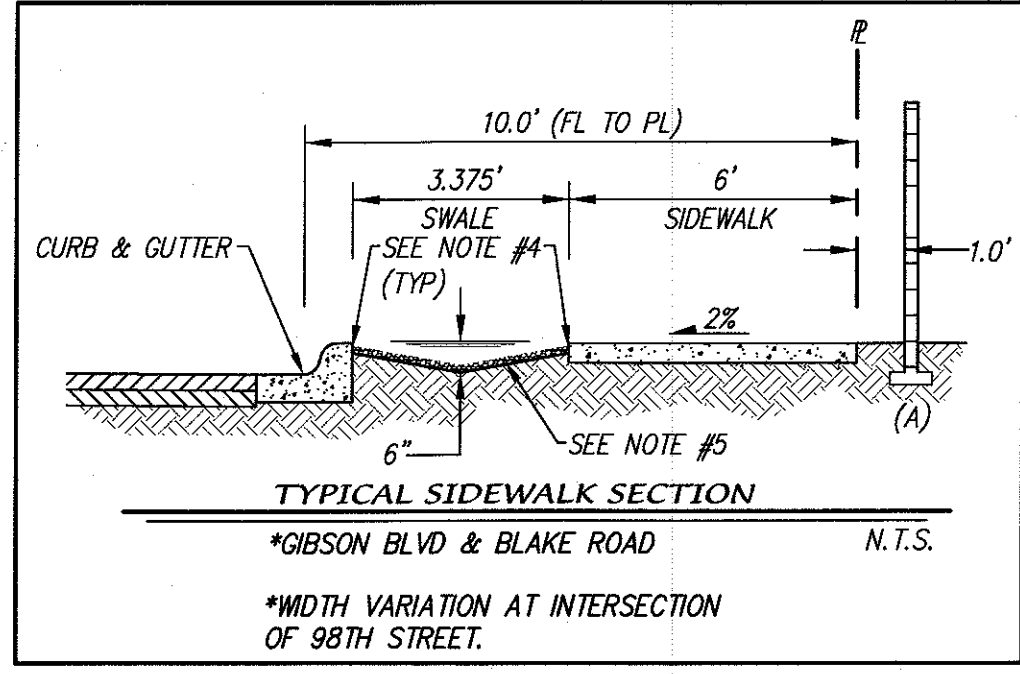
MO./DAY/YR. MO./DAY/YR.

CITY PROJECT NO. **722778** ZONE MAP NO. **N-9-Z** SHEET **4.1** OF **17**

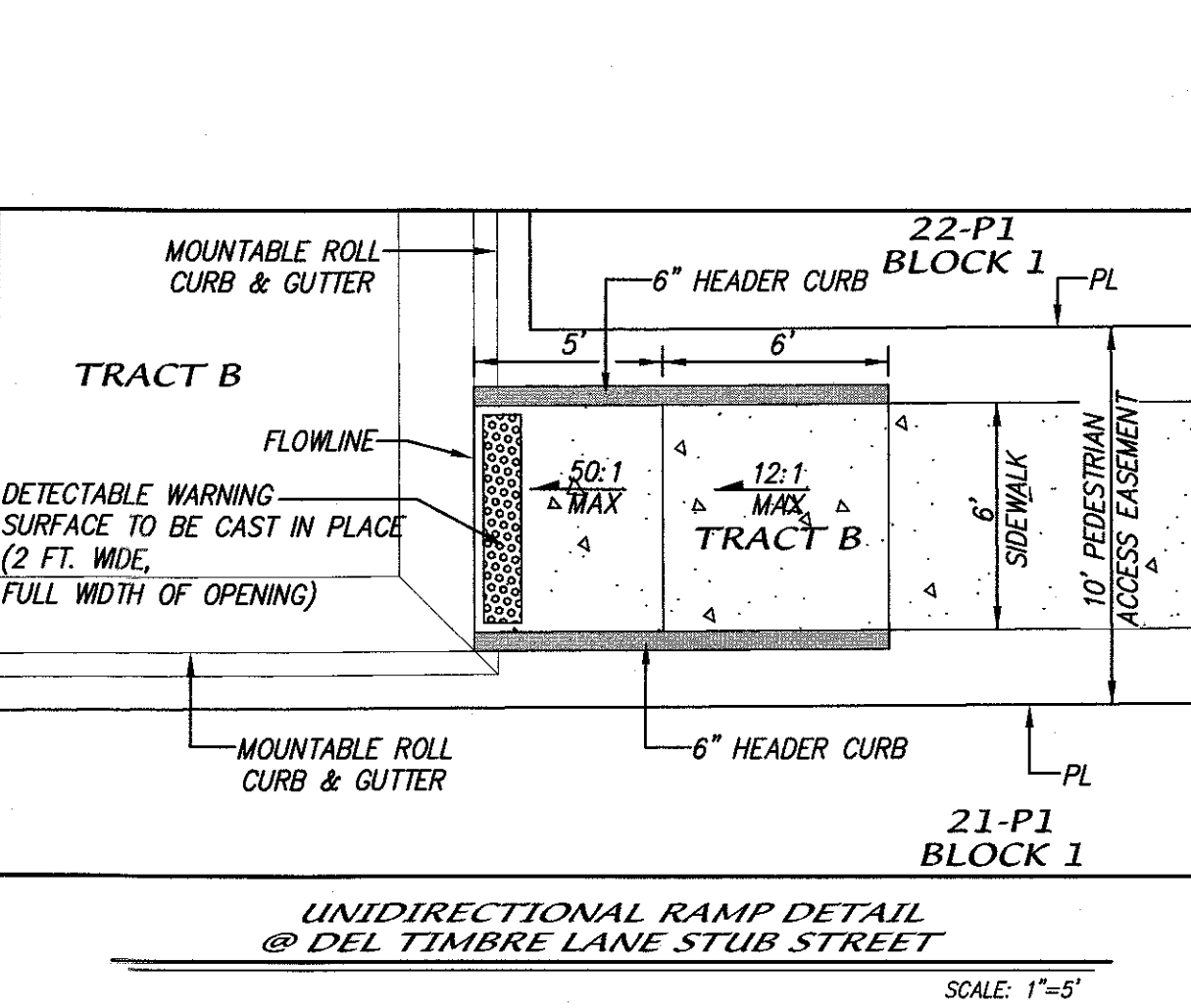
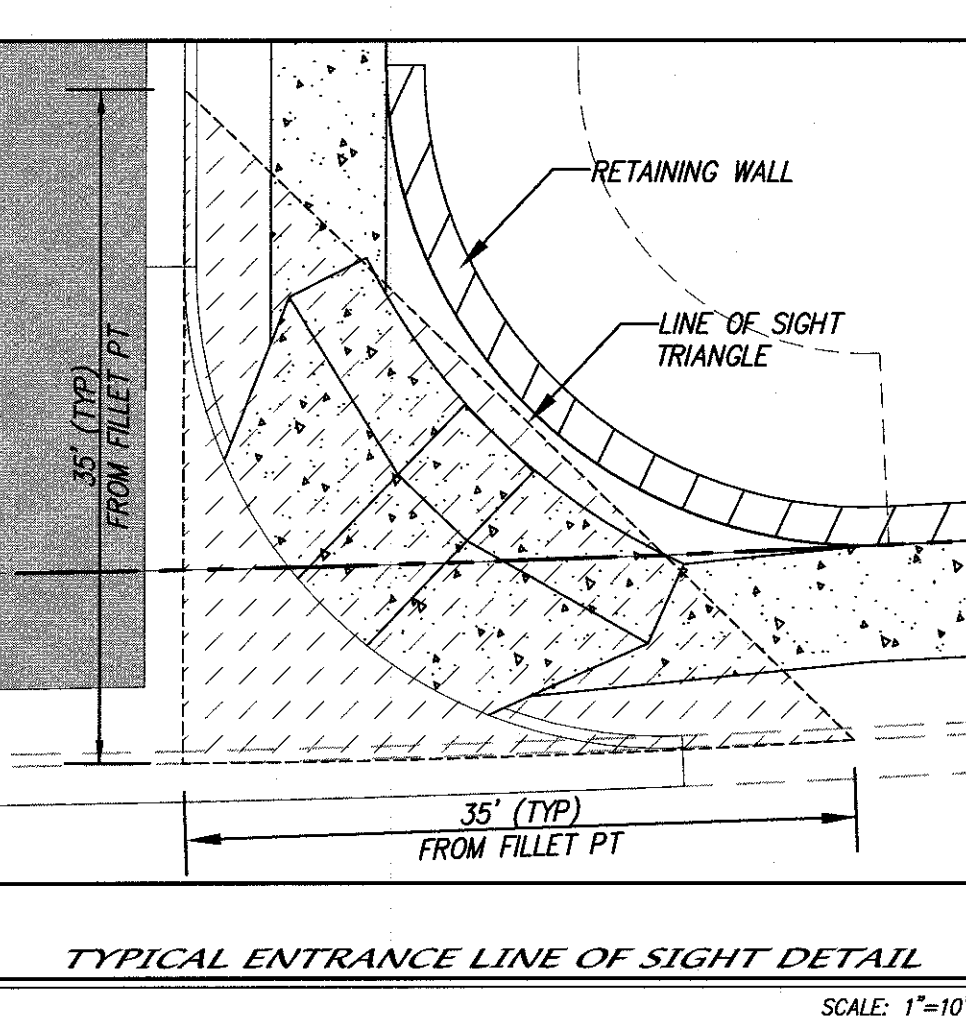




- LANDSCAPE BUFFER NOTES:**
- Swale to be 6" deep when the distance between back of curb and the sidewalk is 5 feet.
 - Swale to be 1" deeper than the distance in feet between the back of curb and the sidewalk for landscape buffers different than 5 feet wide.
 - For wide landscape buffers, greater than 10 feet, the maximum depth is 10 inches.
 - 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 or rip-rap. Do not fill entire swale.
 - A check dam will be required for swales on steeper longitudinal slopes and longer sections. The engineer will determine the location.
 - 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.
 - 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:**
- MOUNTABLE CURB: ROLL TYPE.
 - 4" CURB AND GUTTER: EXTEND 24" BEYOND END OF SLOPED CURB BEFORE TRANSITION.
 - STANDARD CURB & GUTTER.
 - SLOPED CURB.
 - TRANSITION FROM 4" STANDARD CURB TO 4" MOUNTABLE CURB OVER 4" MIN.
 - TOP OF CURB PROFILE (AT BACK OF CURB).
 - FLOWLINE.
 - 1/2" EXPANSION JOINT.
 - HEADER CURBS, SEE STD. DWG. 2441 & 2415.
 - HEADER CURB MAY BE INTEGRAL CURB WITH RAMP. (SEE ALTERNATE SECTION A-A ON STD. DWG. 2441).
 - 50:1 MAX SLOPE ALL DIRECTIONS.
 - 12:1 MAX SLOPE.
 - ACCESS RAMP FLUSH WITH FILLET PER ADA STANDARDS. (1/4" VERTICAL MAX. OR 1/2" WITH 1/4" SLOPED AT 45°).
 - 3/4" RADIUS.
 - 2" RADIUS.
 - DIMENSION AT ROUNDED CORNERS MEASURED TO INTERSECTION OF STRAIGHT LINES.
- SEE THIS SHEET FOR 4" CURB AND GUTTER DETAIL



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT

LOS DIAMANTES SUBDIVISION PAVING DETAILS

DESIGN REVIEW COMMITTEE

CITY ENGINEER

DESIGNED BY: DMG

DRAWN BY: DER

CHECKED BY: DMG

DATE: 01/15

DATE: 01/15

DATE: 01/15

REMARKS:

NO. DATE

REVISIONS

DESIGN

DATE: 01/15

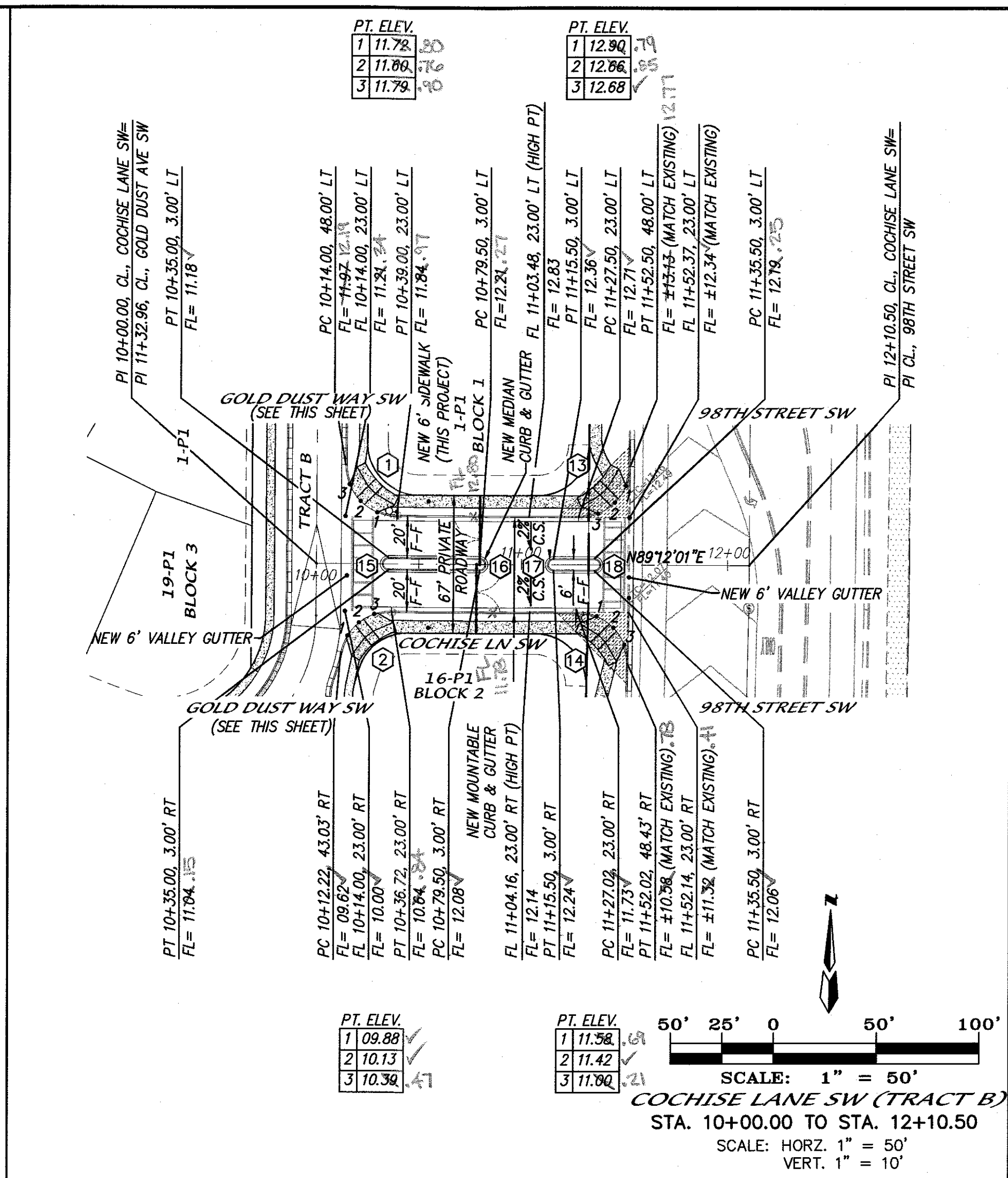
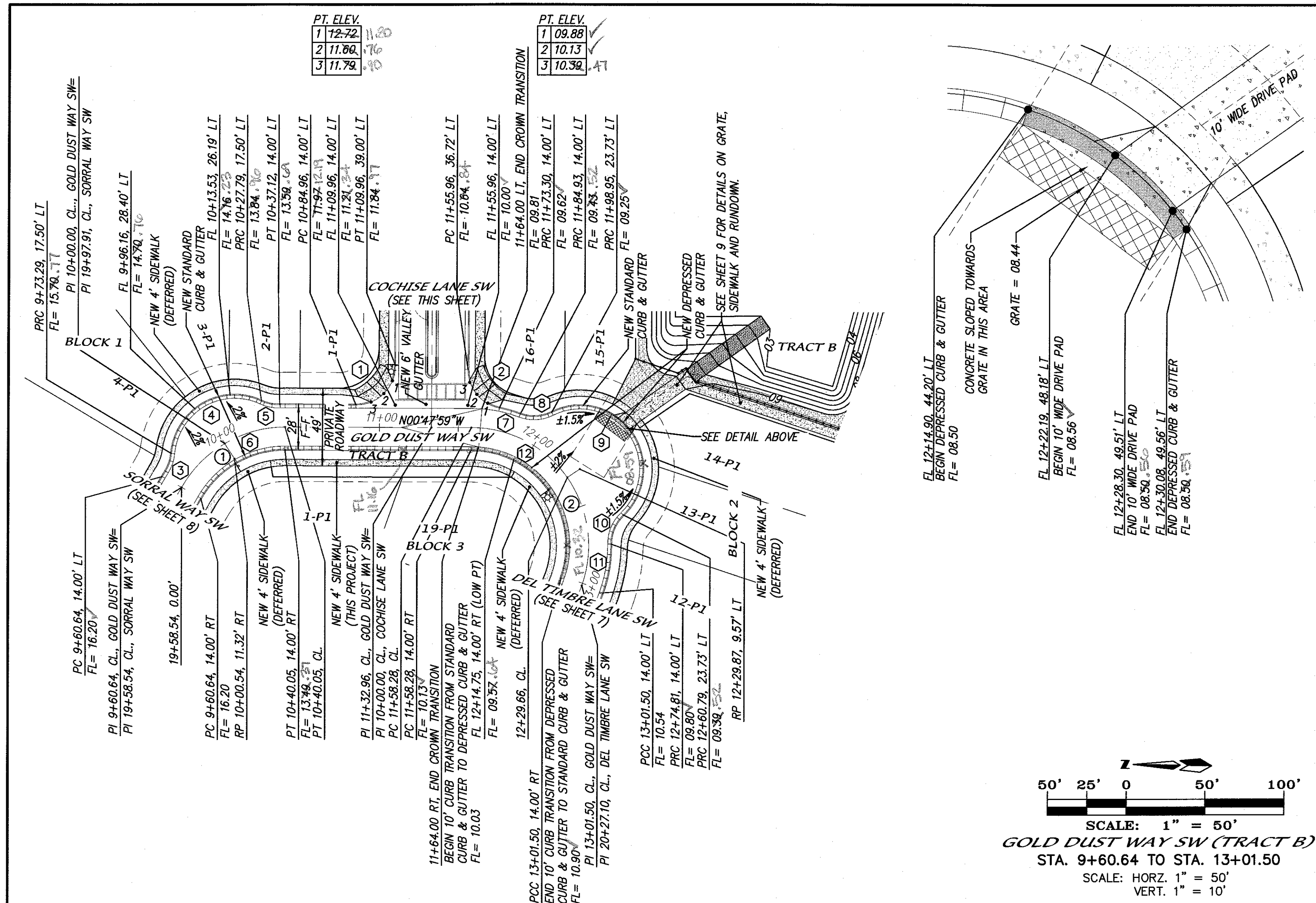
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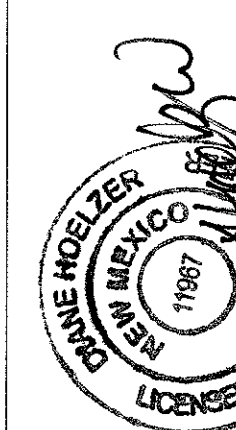
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CITY PROJECT NO. 722778

ZONE MAP NO. N-9-Z

SHEET 5 OF 17



NOTES		AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN		DRAWN BY		CHECKED BY	
1. ALL STATIONING IS BASED ON THE CENTERLINE OF ROADWAY. 2. INSTALL (WHEELCHAIR) CURB ACCESS RAMPS PER C.O.A. STD. DWG #2441 (CASE U). 3. ALL INTERNAL STREETS (TRACT B) ARE PRIVATE. THIS IS A GATED COMMUNITY.		CONTRACTOR: <u>SAVING PROS</u> WORK STARTED BY: <u>SAVING PROS</u> DATE: <u>8/17</u> FIELD ACCEPTANCE BY: <u>MDG</u> DATE: <u>11/17</u> DRAWINGS CORRECTED BY: <u>SAVING PROS</u> DATE: <u>1/17</u> MICRO-FILM INFORMATION: <u>RECORDED BY</u> DATE: <u>NO.</u>		AGRS Brass Cap stamped "TRANS 1969" From the intersection of Central Avenue and 98th Street SW go south on 98th Street 2.0 miles to PNM Electric Substation on the left. The station is east of the substation and south of PNM pylon 52.		NO. BY DATE 1. $\Delta = 60^{\circ}40'03"$ $L = 79.41$ $R = 75.00$ $Tan = 43.89$ 2. $\Delta = 109^{\circ}24'30"$ $L = 143.22$ $R = 75.00$ $Tan = 105.94$		1. $\Delta = 90^{\circ}00'00"$ $L = 39.27$ $R = 25.00$ $Tan = 25.00$ 2. $\Delta = 78^{\circ}31'42"$ $L = 34.26$ $R = 25.00$ $Tan = 20.44$ 3. $\Delta = 31^{\circ}45'48"$ $L = 15.89$ $R = 28.66$ $Tan = 8.16$ 4. $\Delta = 110^{\circ}32'36"$ $L = 77.17$ $R = 40.00$ $Tan = 57.71$ 5. $\Delta = 27^{\circ}19'40"$ $L = 11.92$ $R = 25.00$ $Tan = 6.08$ 6. $\Delta = 60^{\circ}40'03"$ $L = 64.59$ $R = 61.00$ $Tan = 35.69$ 7. $\Delta = 8^{\circ}53'12"$ $L = 13.80$ $R = 89.00$ $Tan = 6.92$ 8. $\Delta = 47^{\circ}11'54"$ $L = 20.59$ $R = 25.00$ $Tan = 10.92$ 9. $\Delta = 163^{\circ}03'22"$ $L = 113.83$ $R = 40.00$ $Tan = 268.55$ 10. $\Delta = 20^{\circ}23'27"$ $L = 31.67$ $R = 89.00$ $Tan = 16.01$ 11. $\Delta = 109^{\circ}24'30"$ $L = 116.48$ $R = 61.00$ $Tan = 86.17$ 12. $\Delta = 90^{\circ}58'34"$ $L = 39.70$ $R = 25.00$ $Tan = 25.43$ 13. $\Delta = 180^{\circ}00'00"$ $L = 9.42$ $R = 3.00$ $Tan = INFINITY$ 14. $\Delta = 180^{\circ}00'00"$ $L = 9.42$ $R = 3.00$ $Tan = INFINITY$ 15. $\Delta = 180^{\circ}00'00"$ $L = 9.42$ $R = 3.00$ $Tan = INFINITY$				NO. DATE 1. $\Delta = 90^{\circ}00'00"$ $L = 39.27$ $R = 25.00$ $Tan = 25.00$ 2. $\Delta = 78^{\circ}31'42"$ $L = 34.26$ $R = 25.00$ $Tan = 20.44$ 3. $\Delta = 31^{\circ}45'48"$ $L = 15.89$ $R = 28.66$ $Tan = 8.16$ 4. $\Delta = 110^{\circ}32'36"$ $L = 77.17$ $R = 40.00$ $Tan = 57.71$ 5. $\Delta = 27^{\circ}19'40"$ $L = 11.92$ $R = 25.00$ $Tan = 6.08$ 6. $\Delta = 60^{\circ}40'03"$ $L = 64.59$ $R = 61.00$ $Tan = 35.69$ 7. $\Delta = 8^{\circ}53'12"$ $L = 13.80$ $R = 89.00$ $Tan = 6.92$ 8. $\Delta = 47^{\circ}11'54"$ $L = 20.59$ $R = 25.00$ $Tan = 10.92$ 9. $\Delta = 163^{\circ}03'22"$ $L = 113.83$ $R = 40.00$ $Tan = 268.55$ 10. $\Delta = 20^{\circ}23'27"$ $L = 31.67$ $R = 89.00$ $Tan = 16.01$ 11. $\Delta = 109^{\circ}24'30"$ $L = 116.48$ $R = 61.00$ $Tan = 86.17$ 12. $\Delta = 90^{\circ}58'34"$ $L = 39.70$ $R = 25.00$ $Tan = 25.43$ 13. $\Delta = 180^{\circ}00'00"$ $L = 9.42$ $R = 3.00$ $Tan = INFINITY$ 14. $\Delta = 180^{\circ}00'00"$ $L = 9.42$ $R = 3.00$ $Tan = INFINITY$ 15. $\Delta = 180^{\circ}00'00"$ $L = 9.42$ $R = 3.00$ $Tan = INFINITY$		I, Mark Goodwin, NMPE 8948, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design noted of the approved plans has been met, except as intent by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Russ Hugg NMPS number 9750.		NO. DATE 1. $\Delta = 90^{\circ}00'00"$ $L = 39.27$ $R = 25.00$ $Tan = 25.00$ 2. $\Delta = 78^{\circ}31'42"$ $L = 34.26$ $R = 25.00$ $Tan = 20.44$ 3. $\Delta = 31^{\circ}45'48"$ $L = 15.89$ $R = 28.66$ $Tan = 8.16$ 4. $\Delta = 110^{\circ}32'36"$ $L = 77.17$ $R = 40.00$ $Tan = 57.71$ 5. $\Delta = 27^{\circ}19'40"$ $L = 11.92$ $R = 25.00$ $Tan = 6.08$ 6. $\Delta = 60^{\circ}40'03"$ $L = 64.59$ $R = 61.00$ $Tan = 35.69$ 7. $\Delta = 8^{\circ}53'12"$ $L = 13.80$ $R = 89.00$ $Tan = 6.92$ 8. $\Delta = 47^{\circ}11'54"$ $L = 20.59$ $R = 25.00$ $Tan = 10.92$ 9. $\Delta = 163^{\circ}03'22"$ $L = 113.83$ $R = 40.00$ $Tan = 268.55$ 10. $\Delta = 20^{\circ}23'27"$ $L = 31.67$ $R = 89.00$ $Tan = 16.01$ 11. $\Delta = 109^{\circ}24'30"$ $L = 116.48$ $R = 61.00$ <	

RECORD DRAWING

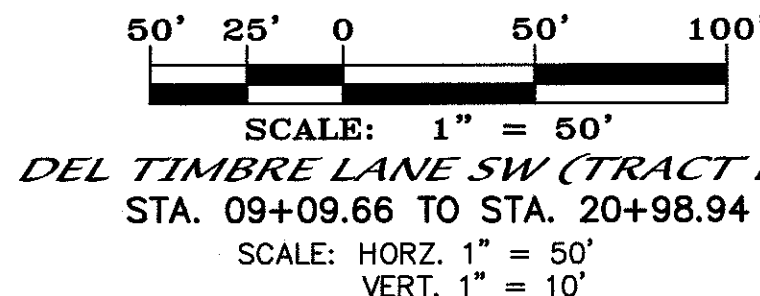
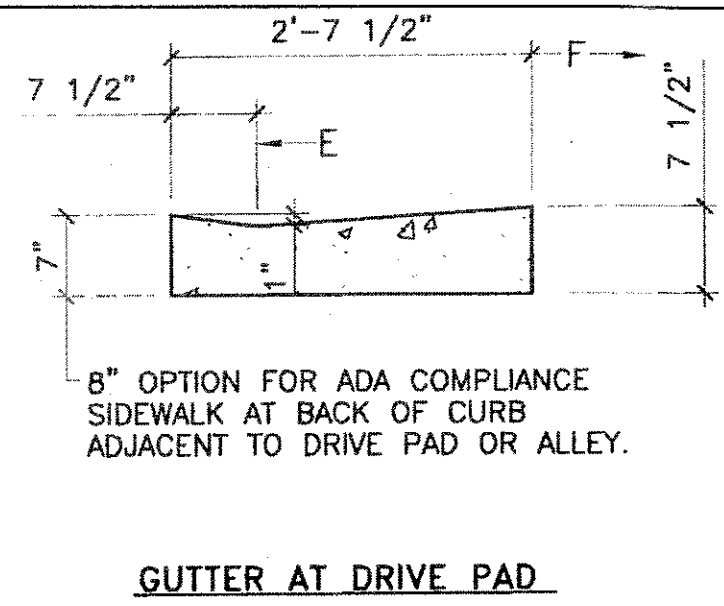
- NOTES
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 2. INSTALL (WHEELCHAIR) CURB ACCESS RAMP PER C.O.A. STD. DWG #2441 (CASE II).
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CURVE DATA - DESCRIBES CENTERLINE

1	$\Delta=4'02''57"$ L=42.40 R=600.00 Tan=21.21	2	$\Delta=17'08''09"$ L=152.63 R=510.00 Tan=76.84	3	$\Delta=10'33''53"$ L=201.60 R=1093.33 Tan=101.09
4	$\Delta=24'48''20"$ L=472.92 R=1092.33 Tan=240.22	5	$\Delta=11'36''08"$ L=143.22 R=510.00 Tan=51.81	6	$\Delta=109'24''30"$ L=143.22 R=75.00 Tan=105.94

CURVE DATA - DESCRIBES FACE OF NEW CURB

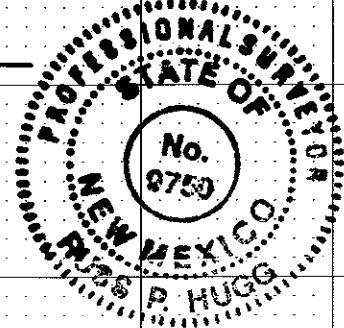
1	$\Delta=90'00''00"$ L=39.27 R=25.00 Tan=25.00	2	$\Delta=90'00''00"$ L=39.27 R=25.00 Tan=25.00	3	$\Delta=4'02''57"$ L=43.32 R=613.00 Tan=21.67
4	$\Delta=4'02''57"$ L=41.48 R=587.00 Tan=20.75	5	$\Delta=17'08''09"$ L=148.64 R=497.00 Tan=74.88	6	$\Delta=17'08''09"$ L=156.42 R=523.00 Tan=78.80
7	$\Delta=8'26''48"$ L=159.27 R=1080.33 Tan=79.78	8	$\Delta=8'01''54"$ L=155.08 R=1106.33 Tan=77.67	9	$\Delta=92'07''04"$ L=40.19 R=25.00 Tan=25.94
10	$\Delta=8'72''01"$ L=38.16 R=25.00 Tan=23.92	11	$\Delta=92'07''19"$ L=40.20 R=25.00 Tan=23.94	12	$\Delta=8'72''01"$ L=38.16 R=25.00 Tan=23.92
13	$\Delta=22'41''02"$ L=426.92 R=1078.33 Tan=216.29	14	$\Delta=22'16''21"$ L=430.07 R=1106.33 Tan=217.78	15	$\Delta=11'36''08"$ L=100.44 R=496.00 Tan=50.39
16	$\Delta=11'36''08"$ L=106.11 R=524.00 Tan=53.24	17	$\Delta=20'23''22"$ L=31.67 R=25.00 Tan=16.01	18	$\Delta=47'11''54"$ L=20.59 R=25.00 Tan=10.92
19	$\Delta=163'03''22"$ L=113.83 R=40.00 Tan=268.55	20	$\Delta=109'24''30"$ L=116.48 R=61.00 Tan=86.17		



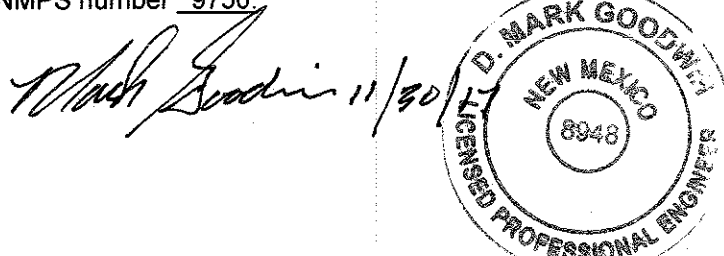
SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPS No. 9750
11-14, 2017



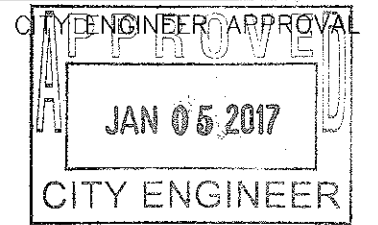
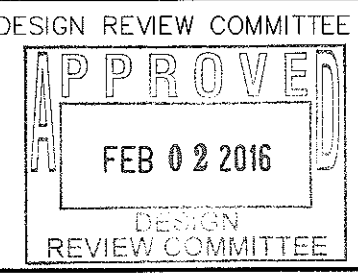
I, Mark Goodwin, NMPE 8948, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Russ Hugg NMPS number 9750.



dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **LOS DIAMANTES SUBDIVISION
DEL TIMBRE LANE SW (TRACT B)
PAVING PLAN AND PROFILE**



CITY PROJECT NO.

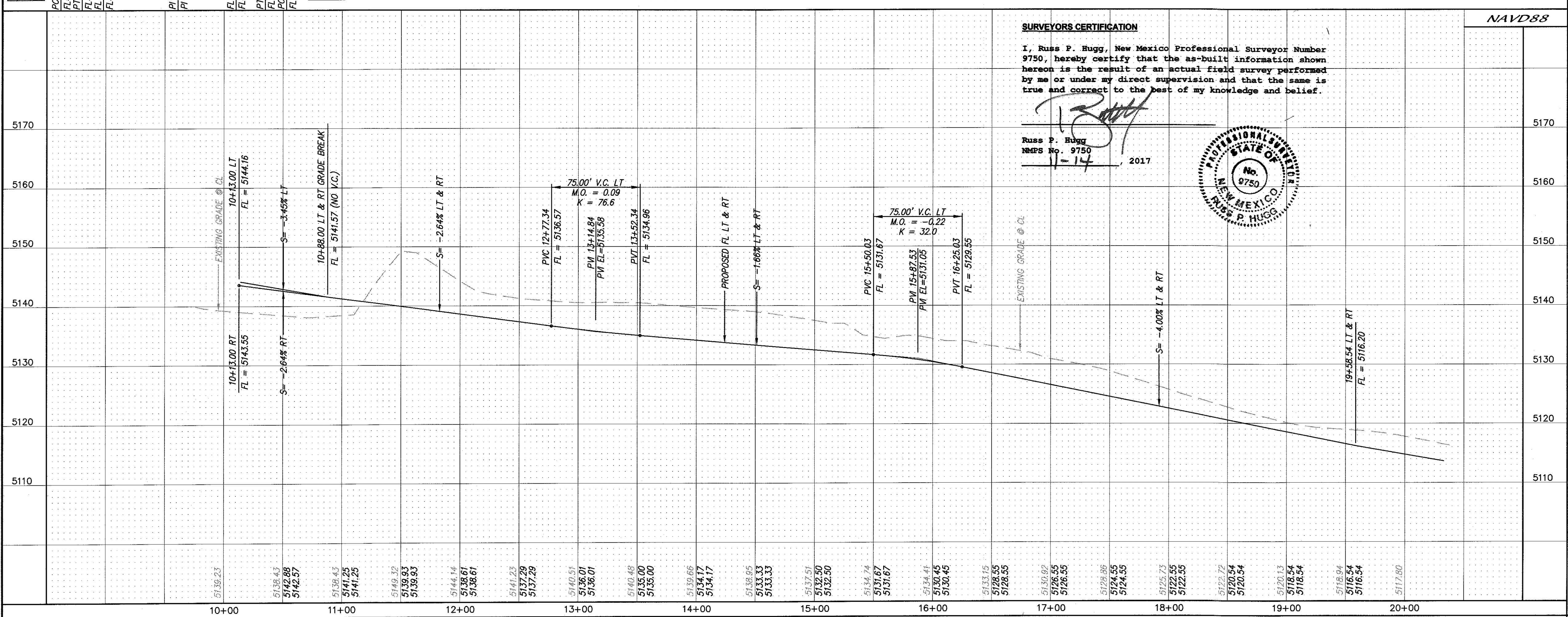
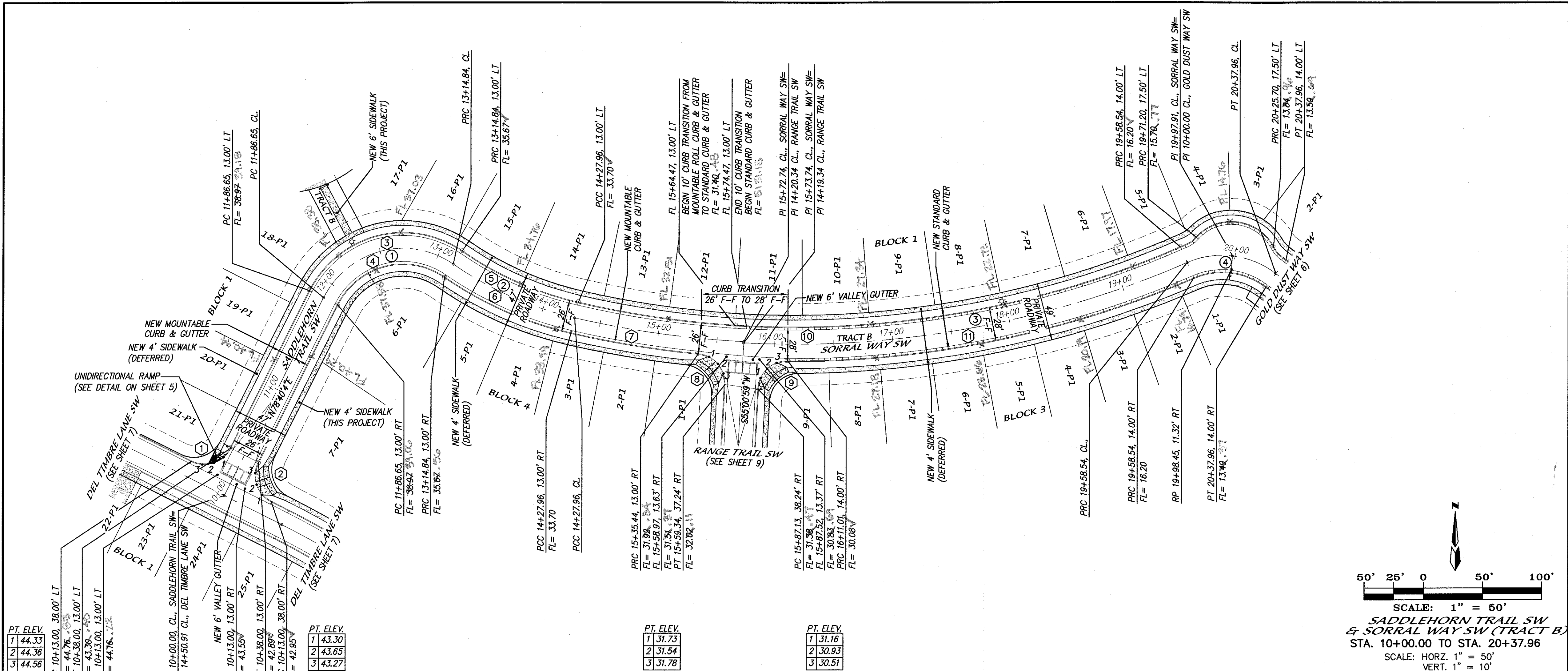
722778

ZONE MAP NO.

N-9-Z

SHEET

7 OF 17



SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPs No. 9750
11-14-2017



- NOTES**
1. ALL STATIONING IS BASED ON THE CENTERLINE OF ROADWAY.
 2. INSTALL (WHEELCHAIR) CURB ACCESS RAMP PER C.O.A. STD. DWG #2441 (CASE II).
 3. ALL INTERNAL STREETS (TRACT B) ARE PRIVATE. THIS IS A GATED COMMUNITY.

CURVE DATA - DESCRIBES CENTERLINE

① $\Delta=97^{\circ}55'46''$ $L=128.19$ $R=75.00$ $Tan=86.17$	② $\Delta=21^{\circ}36'16''$ $L=113.12$ $R=300.00$ $Tan=57.24$	③ $\Delta=26^{\circ}29'01''$ $L=384.80$ $R=832.50$ $Tan=195.90$
④ $\Delta=60^{\circ}40'03''$ $L=79.41$ $R=75.00$ $Tan=43.89$		

CURVE DATA - DESCRIBES FACE OF NEW CURB

① $\Delta=90^{\circ}00'00''$ $L=39.27$ $R=25.00$ $Tan=25.00$	② $\Delta=90^{\circ}00'00''$ $L=39.27$ $R=25.00$ $Tan=25.00$	③ $\Delta=97^{\circ}55'46''$ $L=128.19$ $R=75.00$ $Tan=86.17$
④ $\Delta=97^{\circ}55'46''$ $L=128.19$ $R=75.00$ $Tan=86.17$	⑤ $\Delta=21^{\circ}36'16''$ $L=113.12$ $R=300.00$ $Tan=57.24$	⑥ $\Delta=21^{\circ}36'16''$ $L=113.12$ $R=300.00$ $Tan=57.24$
⑦ $\Delta=77^{\circ}42'21''$ $L=109.16$ $R=844.50$ $Tan=54.65$	⑧ $\Delta=87^{\circ}25'45''$ $L=38.15$ $R=25.00$ $Tan=23.90$	⑨ $\Delta=87^{\circ}26'06''$ $L=38.15$ $R=25.00$ $Tan=23.91$
⑩ $\Delta=36^{\circ}27'36''$ $L=520.85$ $R=818.50$ $Tan=269.58$	⑪ $\Delta=23^{\circ}55'07''$ $L=353.38$ $R=846.50$ $Tan=179.30$	

SCALE: 1" = 50'
SADDLEHORN TRAIL SW & SORRAL WAY SW (TRACT B)
STA. 10+00.00 TO STA. 20+37.96
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

I, Mark Goodwin, NMPE 8948, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Mark Goodwin
NMPE No. 8948
11-14-2017

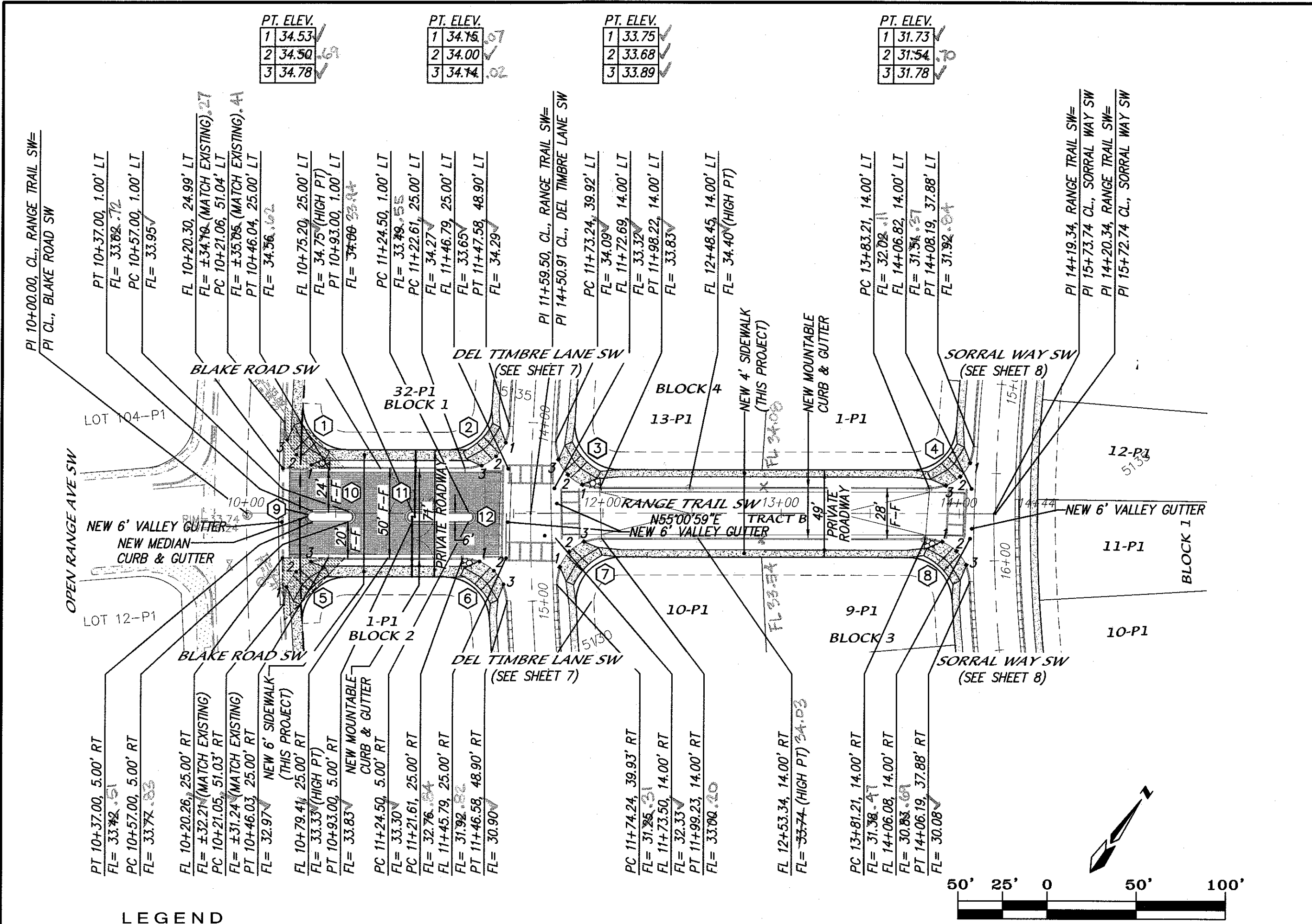


MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200, FAX (505) 797-9539

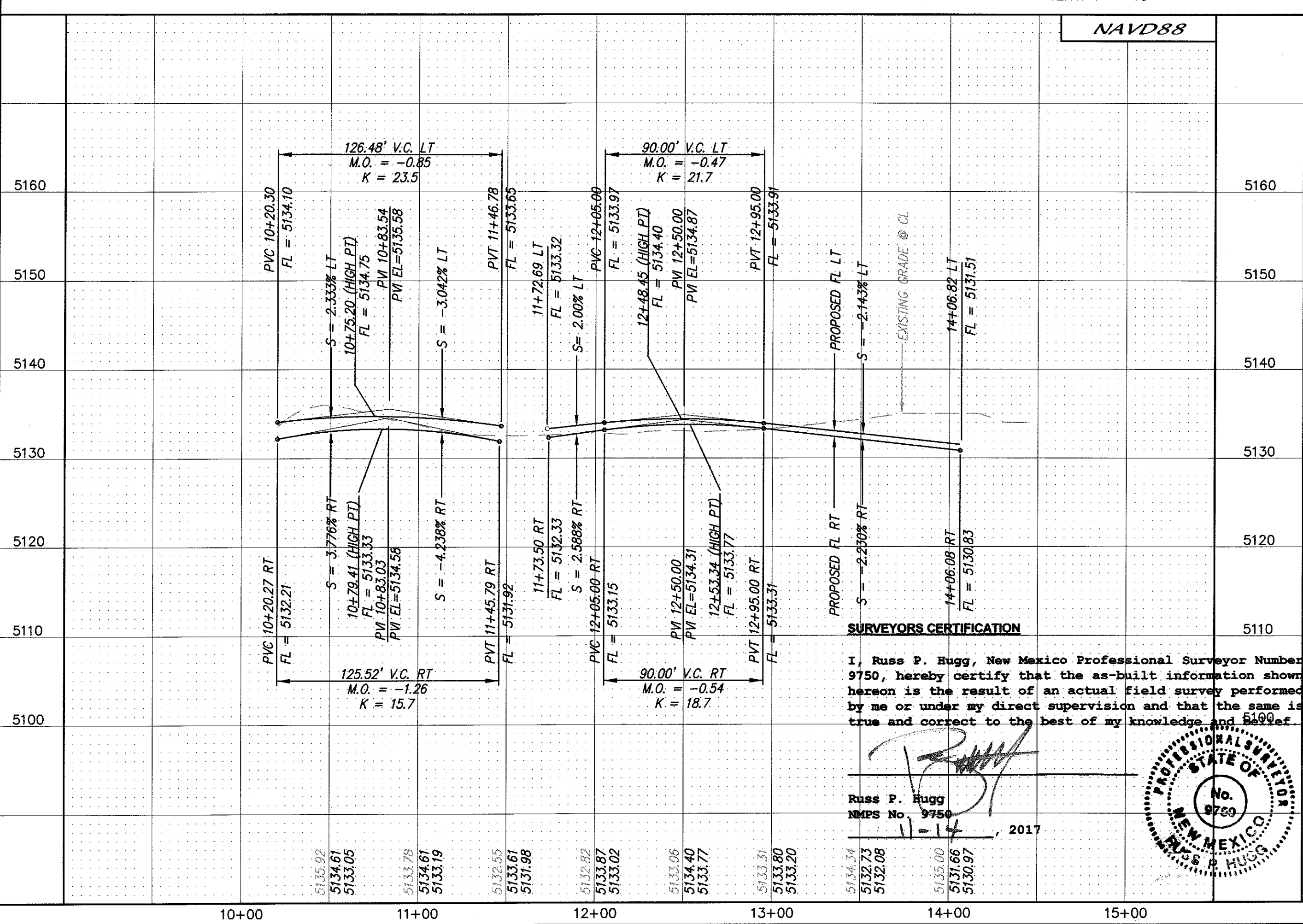
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: LOS DIAMANTES SUBDIVISION
SADDLEHORN TRAIL SW & SORRAL WAY SW (TRACT B)
PAVING PLAN AND PROFILE

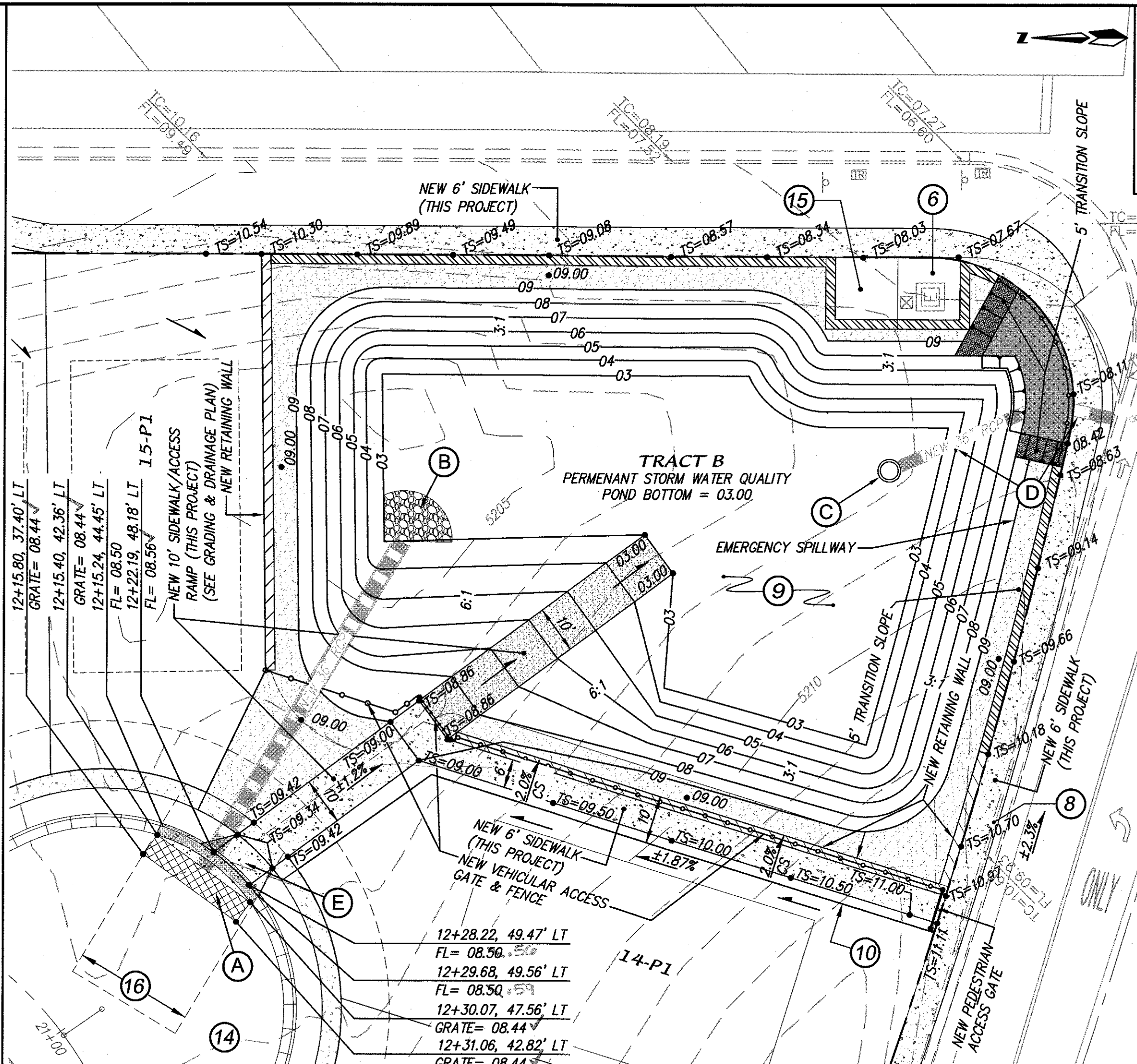
DESIGN REVIEW COMMITTEE: APPROVED FEB 02 2016
CITY ENGINEER APPROVAL: APPROVED JAN 05 2017
LAST DESIGN UPDATE: MO./DAY/YR. MO./DAY/YR.



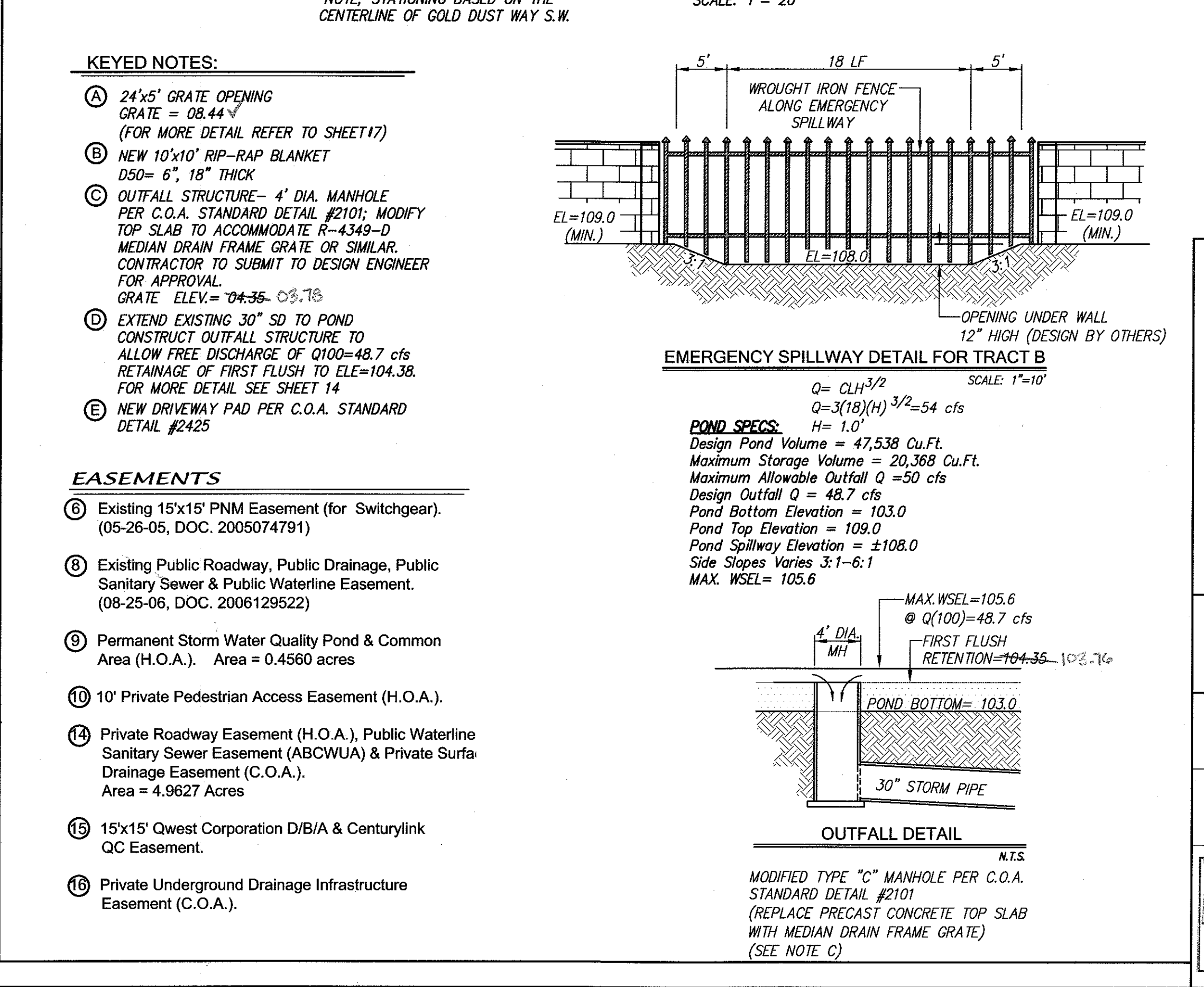
PT. ELEV.	PT. ELEV.	PT. ELEV.	PT. ELEV.
1 31.78	1 34.76	1 33.75	1 31.73
2 32.34	2 34.00	2 33.68	2 31.54
3 32.64	3 34.74	3 33.89	3 31.78



PT. ELEV.	PT. ELEV.	PT. ELEV.	PT. ELEV.
1 31.78	1 32.39	1 32.39	1 31.84
2 32.34	2 32.02	2 32.02	2 32.34
3 32.64	3 31.46	3 31.46	3 32.34



PERMANENT STORM WATER QUALITY POND DETAIL
NOTE: STATIONING BASED ON THE CENTERLINE OF GOLD DUST WAY S.W.
SCALE: 1" = 20'



PT. ELEV.	PT. ELEV.	PT. ELEV.	PT. ELEV.
1 31.78	1 32.39	1 32.39	1 31.84
2 32.34	2 32.02	2 32.02	2 32.34
3 32.64	3 31.46	3 31.46	3 32.34

NOTES

- ALL STATIONING IS BASED ON THE CENTERLINE OF ROADWAY.
- INSTALL (WHEELCHAIR) CURB ACCESS RAMPS PER C.O.A. STD. DWG #2441 (CASE II).
- ALL INTERNAL STREETS (TRACT B) ARE PRIVATE. THIS IS A GATED COMMUNITY.

CONTRACTOR: SALVATORE

WORK: FROM THE INTERSECTION OF CENTRAL AVENUE AND 98TH STREET SW GO SOUTH ON 98TH STREET 2.0 MILES TO PNM ELECTRIC SUBSTATION ON THE LEFT. THE STATION IS EAST OF THE SUBSTATION AND SOUTH OF PNM Pylon 52.

DATE: 11/17

INSPECTED BY: M. HUGG

DATE: 11/17

DESIGNED BY: M. HUGG

DATE: 11/17

CHECKED BY: M. HUGG

DATE: 11/17

AS BUILT INFORMATION

CONTRACTOR: SALVATORE

WORK: FROM THE INTERSECTION OF CENTRAL AVENUE AND 98TH STREET SW GO SOUTH ON 98TH STREET 2.0 MILES TO PNM ELECTRIC SUBSTATION ON THE LEFT. THE STATION IS EAST OF THE SUBSTATION AND SOUTH OF PNM Pylon 52.

DATE: 11/17

INSPECTED BY: M. HUGG

DATE: 11/17

DESIGNED BY: M. HUGG

DATE: 11/17

CHECKED BY: M. HUGG

DATE: 11/17

ENGINEER'S SEAL

MARK GOODWIN & ASSOCIATES, P.A.

REGISTERED PROFESSIONAL ENGINEER

NEW MEXICO

11/30/17

REMARKS

REVISIONS

DESIGN

DATE: 01/15

DRAWN BY: DMG

DATE: 01/15

CHECKED BY: DMG

DATE: 01/15

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

TITLE: LOS DIAMANTES SUBDIVISION RANGE TRAIL SW (TRACT B) PAVING PLAN AND PROFILE

APPROVED: FEB 02 2016

DESIGN REVIEW COMMITTEE

APPROVED: JAN 05 2017

CITY ENGINEER

LAST DESIGN UPDATE

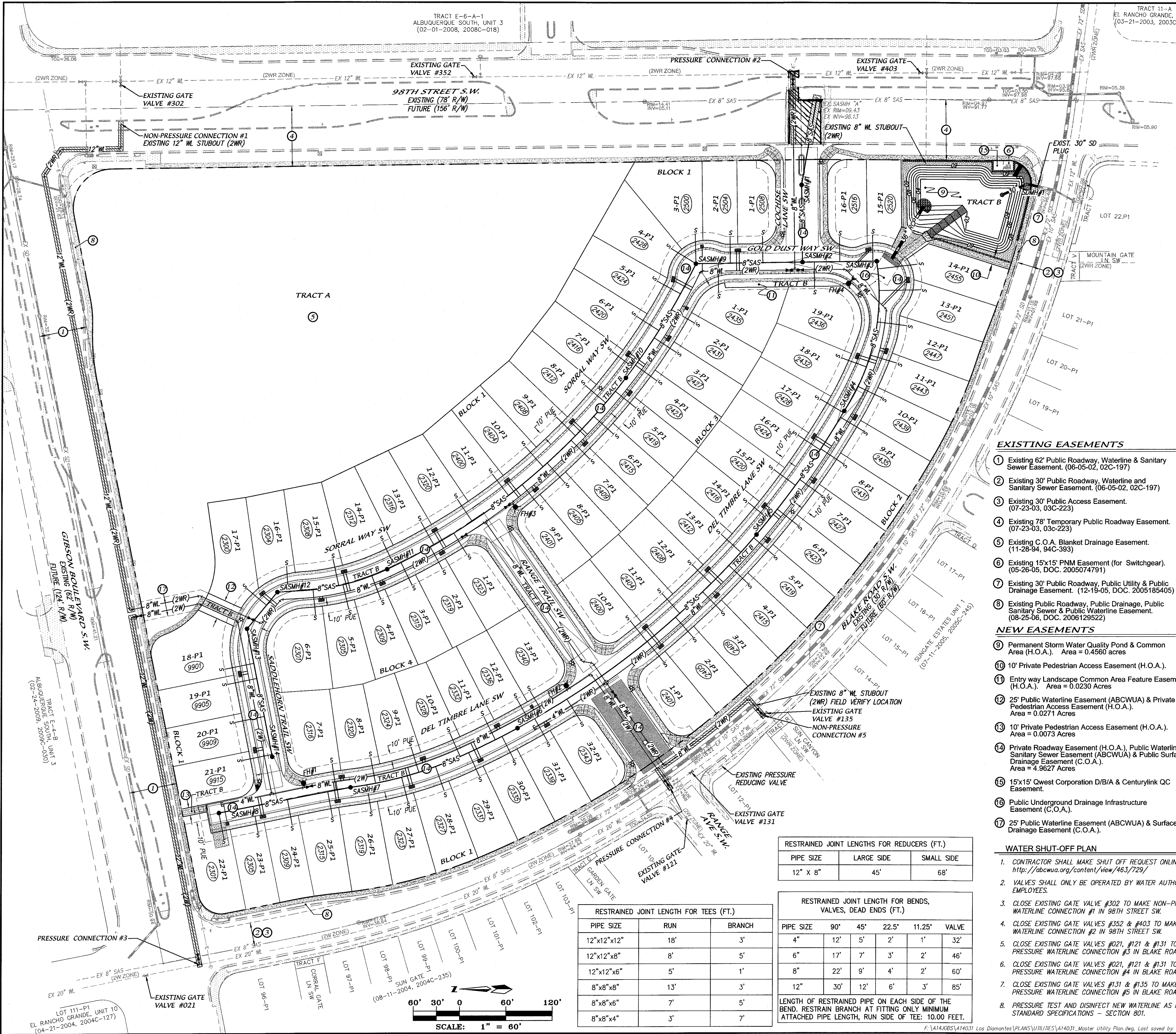
MO./DAY/YR.

MO./DAY/YR.

CITY PROJECT NO. 722778

ZONE MAP NO. N-9-Z

SHEET 9 OF 17



LEGEND

- EXISTING ASPHALT PAVEMENT
- EXISTING ELECTRIC TRANSFORMER
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING POWER POLE
- EXISTING LIGHT POLE
- EXISTING TRAFFIC SIGNAL PULLBOX
- EXISTING CATV PEDESTAL
- EXISTING UTILITY PEDESTAL
- EXISTING DROP INLET
- EXISTING STORM DRAIN
- EXISTING STORM DRAIN MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
- EXISTING GATE VALVE & BOX
- EXISTING FIRE HYDRANT
- NEW RIGHT-OF-WAY
- NEW CENTERLINE
- NEW LOT LINES
- NEW EASEMENTS
- NEW STORM DRAIN INLET
- NEW STORM DRAIN
- NEW STORM DRAIN MANHOLE
- NEW SANITARY SEWER LINE
- NEW SANITARY SEWER MANHOLE
- NEW SANITARY SEWER FLOW DIRECTION
- NEW SANITARY SEWER SERVICE LINE
- NEW WATERLINE
- NEW FIRE HYDRANT
- NEW GATE VALVE & BOX
- NEW WATERLINE TEE
- NEW WATERLINE CAP
- NEW WATERLINE BEND
- NEW WATER METER SERVICES *
- NEW STREET LIGHT
- NEW LOT ADDRESS
- NEW TRENCH PRISM FOR REMOVE & REPLACE ARTERIAL PAVEMENT (SEE DETAIL ON SHEET 15)

NOTES

- THIS PROJECT SITE LIES WITHIN 2 DIFFERENT WATER PRESSURE ZONES:
 - 2W ZONE FOR PAD ELEVATIONS ≤ 5140
 - 2WR ZONE FOR PADS BETWEEN ELEVATIONS 5063 AND 5140
- ALL FIRE HYDRANTS ARE 4" BURY UNLESS OTHERWISE SPECIFIED.
- ALL METER BOXES ADJACENT TO MOUNTABLE CURB SHALL HAVE DUCTILE IRON METER BOX COVER & LID PER ABCWUA STD. DWG 2366; WATER METER BOX PER ABCWUA STD. DWG #2366; WATER SERVICE PER ABCWUA STD. DWG #2362.
- ALL FIRE HYDRANTS PER ABCWUA STD. 2340.
- ALL FIRE HYDRANTS TO HAVE A 6" GATE VALVE & BOX PER ABCWUA STD. DWG #2326; CONTRACTOR TO USE POLY COATED CMP FOR VALVE BOXES.
- CONTRACTOR IS NOT TO INSTALL THE STEPS IN THE SAS MANHOLES.
- ALL SANITARY SEWER MANHOLES PER ABCWUA STD. DWG #2101, #2107 AND #2109.

EXISTING EASEMENTS

- Existing 62' Public Roadway, Waterline & Sanitary Sewer Easement. (06-05-02, 02C-107)
- Existing 30' Public Roadway, Waterline and Sanitary Sewer Easement. (06-05-02, 02C-197)
- Existing 30' Public Access Easement. (07-23-03, 03C-223)
- Existing 78' Temporary Public Roadway Easement. (07-23-03, 03C-223)
- Existing C.O.A. Blanket Drainage Easement. (11-28-94, 94C-393)
- Existing 15'x15' PNM Easement (for Switchgear). (05-26-05, DOC. 2005074791)
- Existing 30' Public Roadway, Public Utility & Public Drainage Easement. (12-19-05, DOC. 2005185405)
- Existing Public Roadway, Public Drainage, Public Sanitary Sewer & Public Waterline Easement. (08-25-06, DOC. 2006129522)

NEW EASEMENTS

- Permanent Storm Water Quality Pond & Common Area (H.O.A.). Area = 0.4560 acres
- 10' Private Pedestrian Access Easement (H.O.A.).
- Entry way Landscape Common Area Feature Easement (H.O.A.). Area = 0.0230 Acres
- 25' Public Waterline Easement (ABCWUA) & Private Pedestrian Access Easement (H.O.A.). Area = 0.0271 Acres
- 10' Private Pedestrian Access Easement (H.O.A.). Area = 0.0073 Acres
- Private Roadway Easement (H.O.A.), Public Waterline & Sanitary Sewer Easement (ABCWUA) & Public Surface Drainage Easement (C.O.A.). Area = 4.9627 Acres
- 15'x15' Qwest Corporation D/B/A & Centurylink QC Easement.
- Public Underground Drainage Infrastructure Easement (C.O.A.).
- 25' Public Waterline Easement (ABCWUA) & Surface Drainage Easement (C.O.A.).

WATER SHUT-OFF PLAN

- CONTRACTOR SHALL MAKE SHUT OFF REQUEST ONLINE AT <http://abcwua.org/content/view/full/463/729/>
- VALVES SHALL ONLY BE OPERATED BY WATER AUTHORITY EMPLOYEES.
- CLOSE EXISTING GATE VALVE #302 TO MAKE NON-PRESSURE WATERLINE CONNECTION #1 IN 98TH STREET SW.
- CLOSE EXISTING GATE VALVES #352 & #403 TO MAKE PRESSURE WATERLINE CONNECTION #2 IN 98TH STREET SW.
- CLOSE EXISTING GATE VALVES #021, #121 & #131 TO MAKE PRESSURE WATERLINE CONNECTION #3 IN BLAKE ROAD SW.
- CLOSE EXISTING GATE VALVES #021, #121 & #131 TO MAKE PRESSURE WATERLINE CONNECTION #4 IN BLAKE ROAD SW.
- CLOSE EXISTING GATE VALVES #131 & #135 TO MAKE NON-PRESSURE WATERLINE CONNECTION #5 IN BLAKE ROAD SW.
- PRESSURE TEST AND DISINFECT NEW WATERLINE AS PER ABCWUA STANDARD SPECIFICATIONS - SECTION 801.

RESTRAINED JOINT LENGTHS FOR REDUCERS (FT.)

PIPE SIZE	LARGE SIDE	SMALL SIDE
12" X 8"	45'	68'

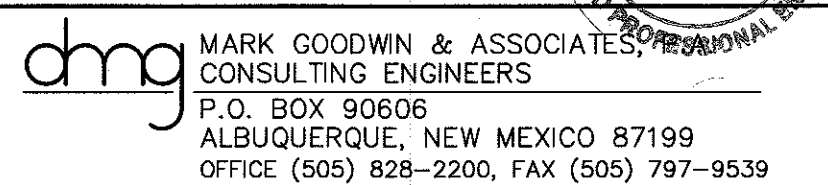
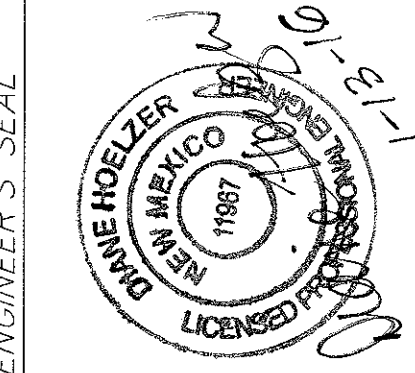
RESTRAINED JOINT LENGTH FOR TEES (FT.)

PIPE SIZE	RUN	BRANCH
12"x12"x12"	18'	3'
12"x12"x8"	8'	5'
12"x12"x6"	5'	1'
8"x8"x8"	13'	3'
8"x8"x6"	7'	5'
8"x8"x4"	3'	7'

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
4"	12'	5'	2'	1'	32'
6"	17'	7'	2'	2'	46'
8"	22'	9'	4'	2'	60'
12"	30'	12'	6'	3'	85'

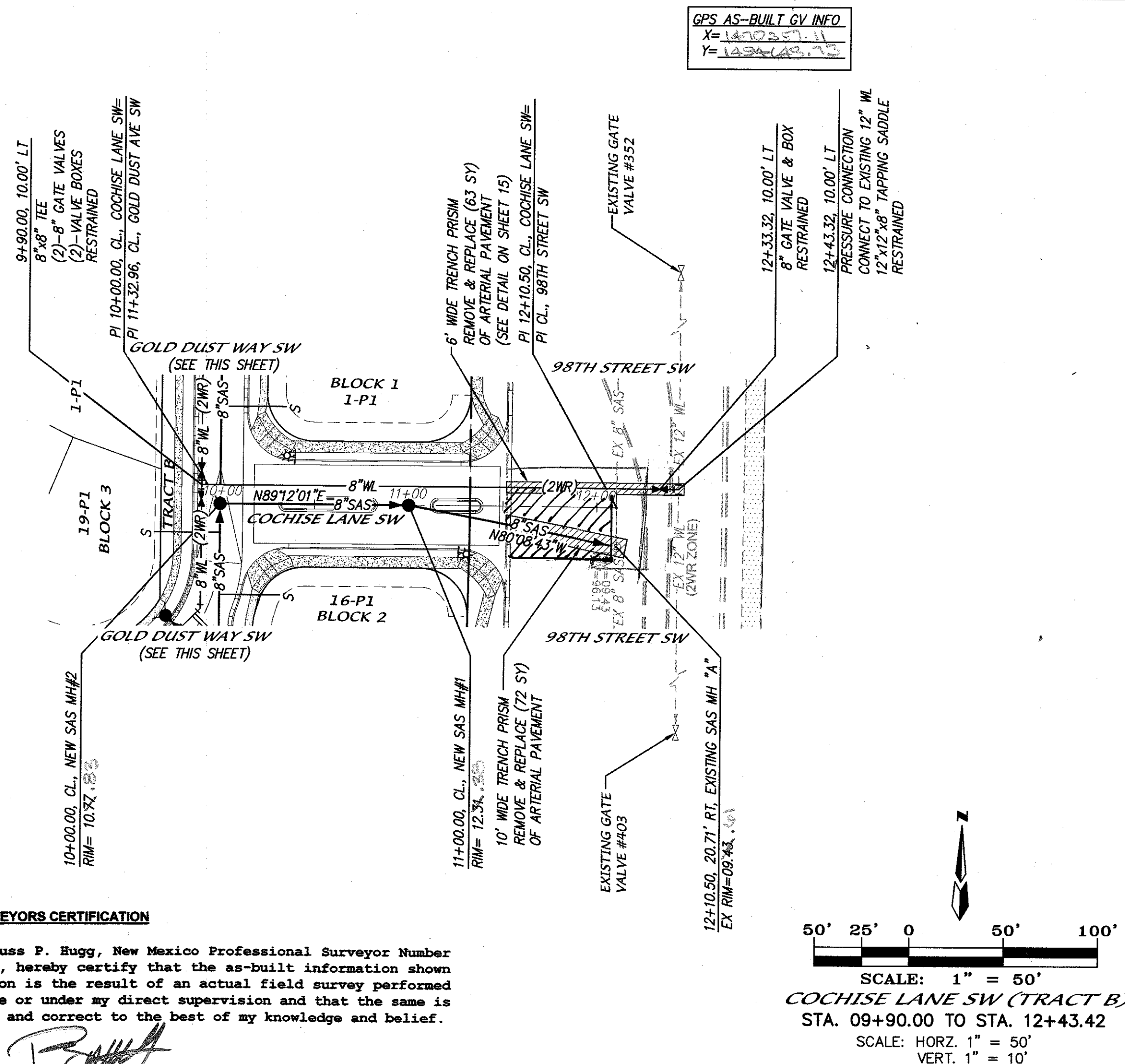
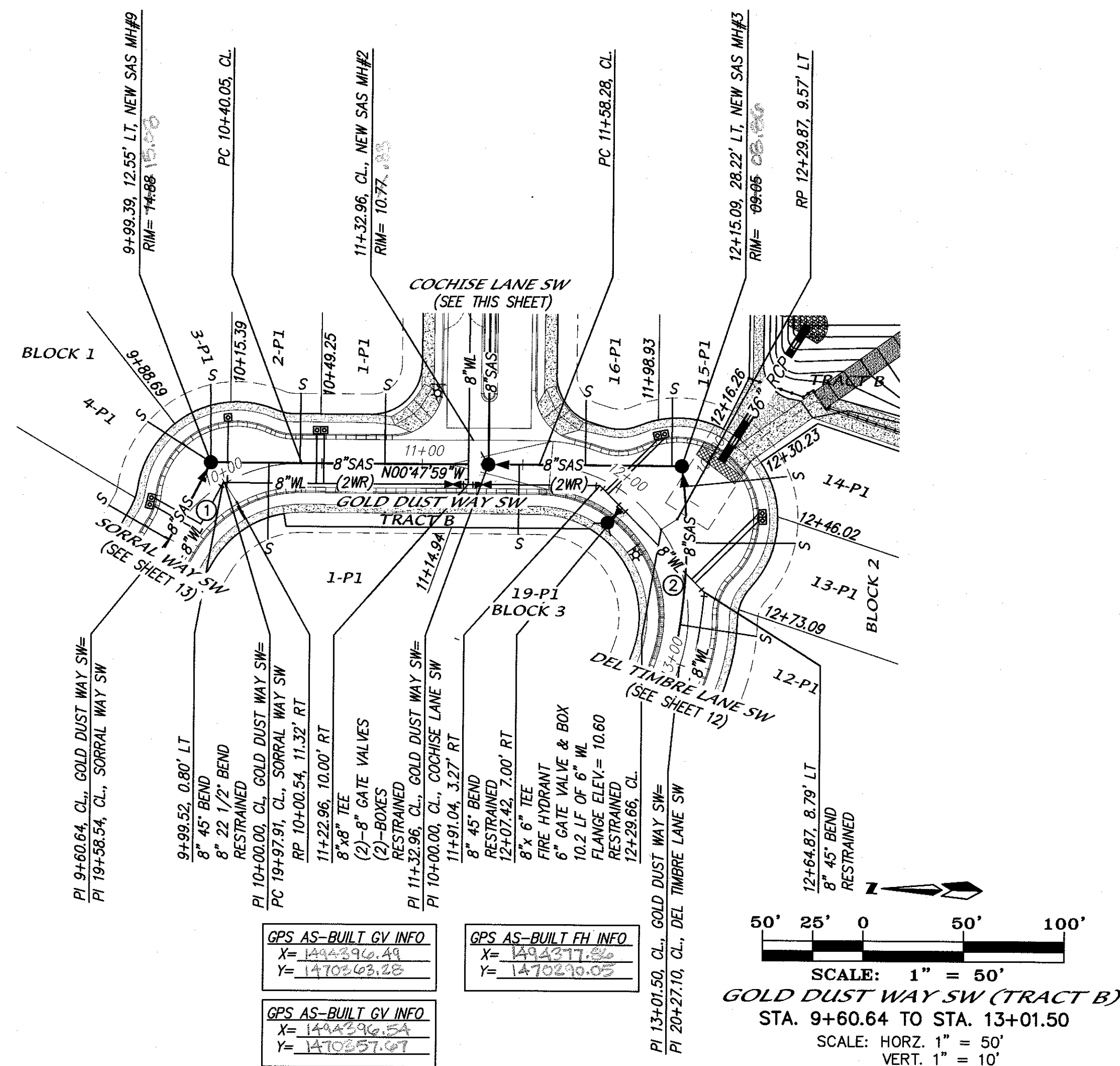
LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND, RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
LOS DIAMANTES SUBDIVISION
MASTER UTILITY PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED FEB 02 2016 DESIGN REVIEW COMMITTEE	APPROVED JAN 05 2017 CITY ENGINEER		

CITY PROJECT NO.	722778	ZONE MAP NO.	N-9-Z	SHEET	10	OF	17
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SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

NOTES	
1.	ALL STATIONING IS BASED ON THE CENTERLINE OF PRIVATE ROADWAY.
2.	98TH STREET IS A ARTERIAL ROAD CLASS.
LEGEND	
	REMOVE & REPLACE ARTERIAL PAVEMENT SECTION PER C.O.A. STANDARD DETAIL #2465.

CURVE DATA - DESCRIBES CENTERLINE (GOLD DUST WAY)

$$\begin{aligned} \textcircled{1} \Delta &= 60^{\circ}40'03'' & \textcircled{2} \Delta &= 109^{\circ}24'30'' \\ L &= 79.41 & L &= 143.22 \\ R &= 75.00 & R &= 75.00 \\ \text{Tan} &= 43.89 & \text{Tan} &= 105.94 \end{aligned}$$

NEW SANITARY SEWER SERVICES (GOLD DUST WAY)

LOT	BLOCK	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
1-P1	1	10+81.46	07.02	34.50
2-P1	1	10+39.50	08.44	34.50
3-P1	1	10+11.34	09.40	38.47
4-P1	1	9+85.86	10.16	37.43
12-P1	2	12+82.33	05.35	38.53
13-P1	2	12+54.84	04.84	54.10
14-P1	2	12+37.11	04.66	53.05
15-P1	2	11+99.14	04.61	33.80
16-P1	2	11+74.17	04.85	33.96
1-P1	3	10+08.84	09.49	37.96
19-P1	3	11+48.28	05.14	34.50

[illegible]

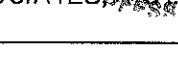
SURVEY INFORMATION			BENCH MARKS	
NO.	BY	FIELD NOTES	AGRS Brass Cap stamped "TRANS 1969"	
			From the intersection of Central Avenue and 98th Street SW go south on 98th Street 2.0 miles to PWM Electric Substation on the left. The station is east of the substation and south of PWM pylon 52.	
			Geographic Position, in feet (NA083)	
			N.M. State Plane Coordinates (Central Zone)	
			N=1471885.503, E=1495145.466	
			Elevation, in feet (NAVD88)=5121.089	

[illegible]

I, Mark Goodwin, NMPE #8948, of the firm Mark Goodwin Associates, PA, a Registered Professional Engineer in the State of New Mexico, hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project was inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Russ Hugg NMPS number 9750.

Mark Goodin 11/30/17

 MARK GOODWIN & ASSOCIATES
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200, FAX (505) 797-9539



 CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: *LOS DIAMANTES SUBDIVISION*
GOLD DUST WAY SW & COCHISE LANE SW (TRACT B)
UTILITY PLAN AND PROFILE

DESIGN REVIEW COMMITTEE
APPROVED
FEB 02 2016
DESIGN
REVIEW COMMITTEE

CITY ENGINEER APPROVAL

APPROVED

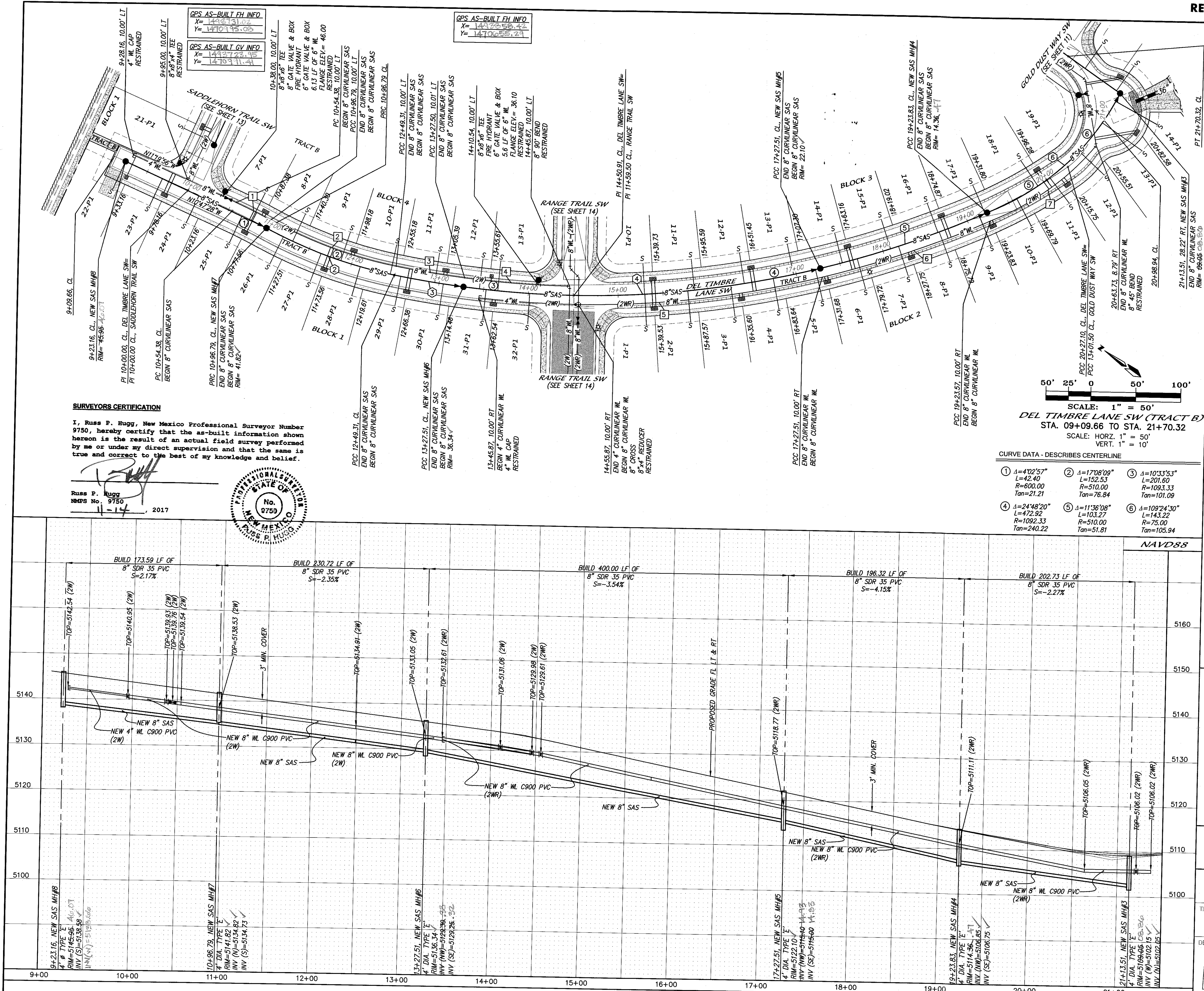
JAN 05 2017

CITY ENGINEER

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET OF
722778	N-9-Z	11 17

RECORD DRAWING



NOTES

1. ALL STATIONING IS BASED ON THE CENTERLINE OF PRIVATE ROADWAY.

CURVE DATA - DESCRIBES NEW CURVILINEAR SANITARY SEWER

STATION	Δ	L	R	Tan
1	Δ=20°58'52"	L=400.00	R=1092.33	Tan=202.27
2	Δ=17°08'09"	L=152.53	R=510.00	Tan=76.84
3	Δ=4°06'55"	L=78.19	R=1088.65	Tan=39.11
4	Δ=107°51'	L=196.32	R=275.00	Tan=98.43
5	Δ=42°14'16"	L=202.73	R=106.22	Tan=106.22

CURVE DATA - DESCRIBES NEW CURVILINEAR WATERLINE

STATION	Δ	L	R	Tan
1	Δ=4°02'57"	L=43.11	R=610.00	Tan=21.56
2	Δ=17°07'41"	L=149.47	R=500.00	Tan=75.30
3	Δ=4°07'08"	L=77.54	R=1078.65	Tan=38.79
4	Δ=6°12'30"	L=1082.33	R=1102.33	Tan=58.70
5	Δ=20°10'04"	L=385.13	R=1092.33	Tan=194.55
6	Δ=107°03'	L=197.86	R=1102.33	Tan=99.20
7	Δ=29°17'51"	L=145.73	R=285.00	Tan=74.50

NEW SANITARY SEWER SERVICES

LOT	BLOCK	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
22-P1	1	9+23.16	40.64	33.50'
23-P1	1	9+68.16	39.58	33.50'
24-P1	1	10+13.16	38.51	33.50'
25-P1	1	10+66.96	37.23	33.50'
26-P1	1	11+18.12	36.01	33.50'
27-P1	1	11+64.18	34.92	33.50'
28-P1	1	12+10.23	33.83	33.50'
29-P1	1	12+56.68	32.73	33.50'
30-P1	1	13+04.76	31.58	33.50'
31-P1	1	13+52.84	30.44	33.50'
32-P1	1	14+01.58	29.28	33.50'

DEL TIMBRE LANE SW (TRACT B)
STA. 09+09.66 TO STA. 21+70.32

SCALE: 1" = 50'
SCALE: HORZ. 1" = 50'
SCALE: VERT. 1" = 10'

CURVE DATA - DESCRIBES CENTERLINE

STATION	Δ	L	R	Tan
1	Δ=4°02'57"	L=42.40	R=600.00	Tan=21.21
2	Δ=17°08'09"	L=152.53	R=510.00	Tan=76.84
3	Δ=10°33'53"	L=201.60	R=1083.33	Tan=101.09
4	Δ=24°48'20"	L=472.92	R=1092.33	Tan=240.22
5	Δ=11°36'08"	L=103.27	R=510.00	Tan=51.61
6	Δ=109°24'30"	L=143.22	R=75.00	Tan=103.94

NAVD88

STATION	Δ	L	R	Tan
10-P1	3	15+29.40	24.67	34.50'
11-P1	3	15+85.26	22.43	34.50'
12-P1	3	16+41.12	20.20	34.50'
13-P1	3	16+96.98	17.96	34.50'
14-P1	3	17+52.83	15.73	34.50'
15-P1	3	18+08.69	13.49	34.50'
16-P1	3	18+64.55	11.26	34.50'
17-P1	3	19+20.41	9.02	34.50'
18-P1	3	19+76.27	6.78	34.50'

REMARKS

NO.	DATE	REMARKS
1	01/15	DESIGN
2	01/15	DER
3	01/15	DMG

Mark Goodwin, N.M.P.E. 8048 of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This certification is based on site inspections by me or personnel under my direction, and survey information provided by Russ Hugg NMPS number 9750.

11/30/17

MARK GOODWIN
N.M.P.E. 8048
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

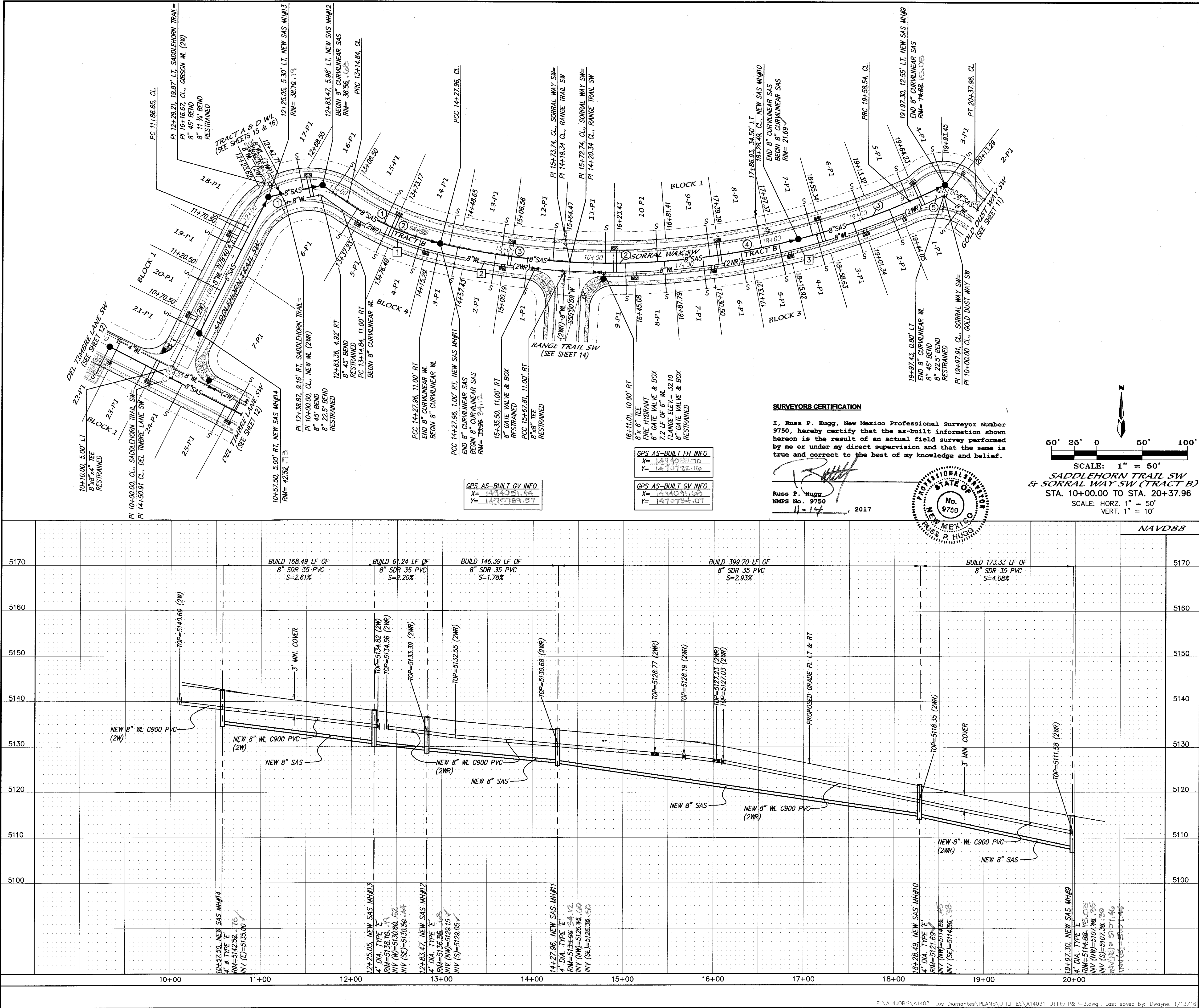
TITLE: **LOS DIAMANTES SUBDIVISION DEL TIMBRE LANE SW (TRACT B) UTILITY PLAN AND PROFILE**

DESIGN REVIEW COMMITTEE: **APPROVED** FEB 02 2016

CITY ENGINEER APPROVAL: **APPROVED** JAN 05 2017

LAST DESIGN UPDATE: **NO. / DAY / YR.**

CITY PROJECT NO. **722778** ZONE MAP NO. **N-9-Z** SHEET OF **12 17**



NOTES

1. ALL STATIONING IS BASED ON THE CENTERLINE OF PRIVATE ROADWAY.

CURVE DATA - DESCRIBES CENTERLINE

① Δ=97°55'46" L=128.19 R=75.00 Tan=86.17	② Δ=21°36'16" L=113.12 R=300.00 Tan=57.24	③ Δ=9°58'35" L=144.78 R=631.50 Tan=72.58
④ Δ=26°29'01" L=384.80 R=832.50 Tan=195.90	⑤ Δ=60°40'03" L=79.41 R=75.00 Tan=43.89	

CURVE DATA - DESCRIBES NEW CURVILINEAR SANITARY SEWER

① Δ=21°36'16" L=113.50 R=301.00 Tan=57.43	② Δ=27°30'32" L=399.70 R=832.50 Tan=203.78	③ Δ=11°55'45" L=432.00 R=832.50 Tan=86.98
--	---	--

CURVE DATA - DESCRIBES NEW CURVILINEAR WATERLINE

① Δ=21°36'16" L=117.27 R=311.00 Tan=59.34	② Δ=9°38'11" L=141.70 R=842.50 Tan=71.02	③ Δ=29°22'44" L=432.00 R=842.50 Tan=220.86
--	---	---

NEW SANITARY SEWER SERVICES

LOT	BLOCK	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
5-P1	1	19+58.02	11.15	34.50'
6-P1	1	19+02.89	13.33	34.50'
7-P1	1	18+44.91	15.65	34.50'
8-P1	1	17+86.93	17.97	34.50'
9-P1	1	17+28.96	20.29	34.50'
10-P1	1	16+70.98	22.61	34.50'
11-P1	1	16+13.00	24.92	34.50'
12-P1	1	15+54.05	26.58	34.50'
13-P1	1	14+96.14	27.55	34.50'
14-P1	1	14+38.23	28.51	34.50'
15-P1	1	13+81.90	29.78	34.50'
16-P1	1	13+01.59	30.94	32.63'
17-P1	1	12+60.16	31.98	33.47'
18-P1	1	11+80.50	34.08	38.50'
19-P1	1	11+60.50	34.61	38.50'
20-P1	1	11+10.50	35.93	38.50'
21-P1	1	10+60.50	37.45	38.50'
1-P1	3	20+06.74	09.49	37.96'
2-P1	3	19+34.45	12.07	34.50'
3-P1	3	18+91.74	13.78	34.50'
4-P1	3	18+49.03	15.49	34.50'
5-P1	3	18+06.32	17.19	34.50'
6-P1	3	17+63.61	18.90	34.50'
7-P1	3	17+20.81	20.62	34.50'
8-P1	3	16+78.03	22.33	34.50'
9-P1	3	16+35.60	24.03	34.50'
1-P1	4	15+25.82	27.06	32.50'
2-P1	4	14+90.57	27.64	32.50'
3-P1	4	14+47.82	28.35	32.50'
4-P1	4	14+06.53	29.04	32.50'
5-P1	4	13+67.49	29.69	32.50'
6-P1	4	13+28.23	30.37	32.50'

I, Mark Goodwin, NMPS 8948, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Russ Hugg NMPS number 9750.

Mark Goodwin 11/30/17

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90608
ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200, FAX (505) 797-9539

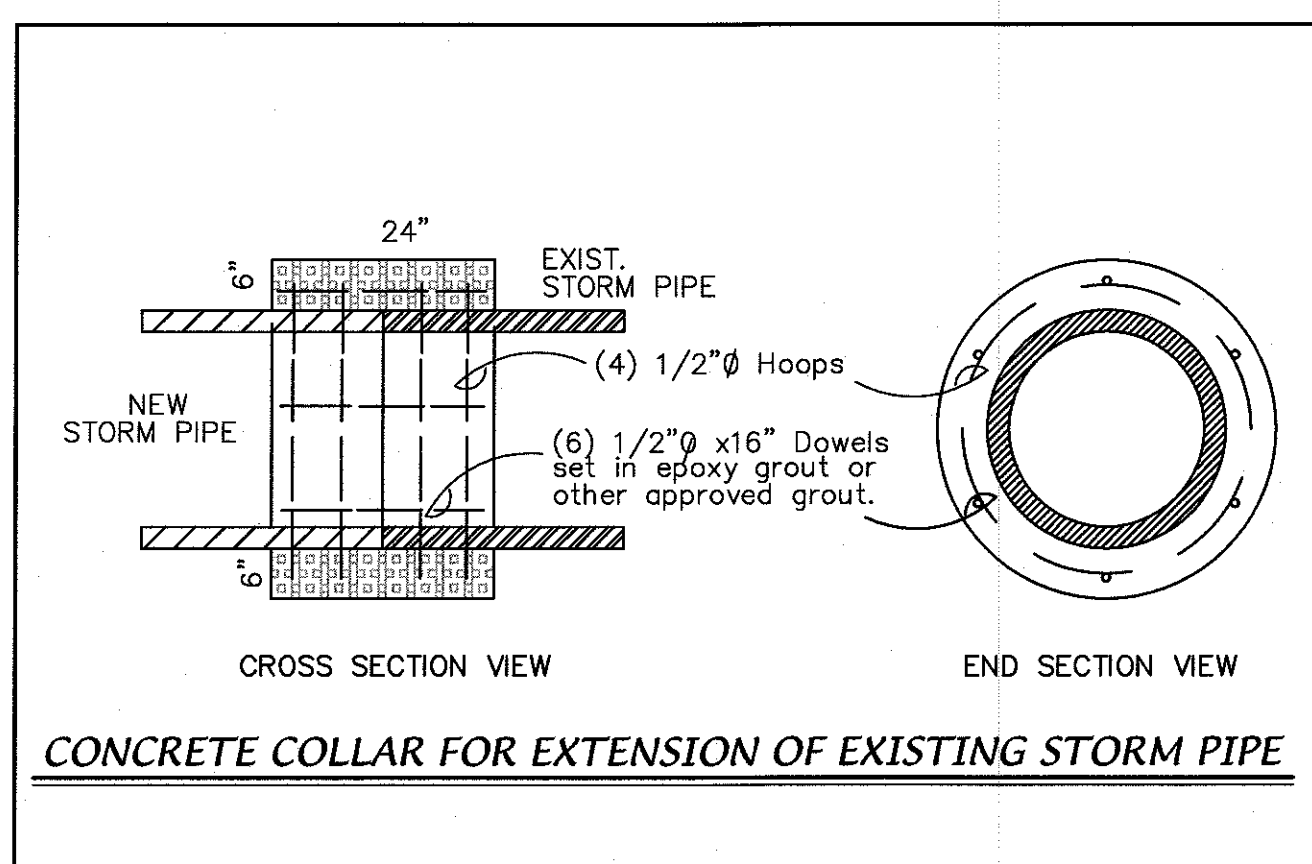
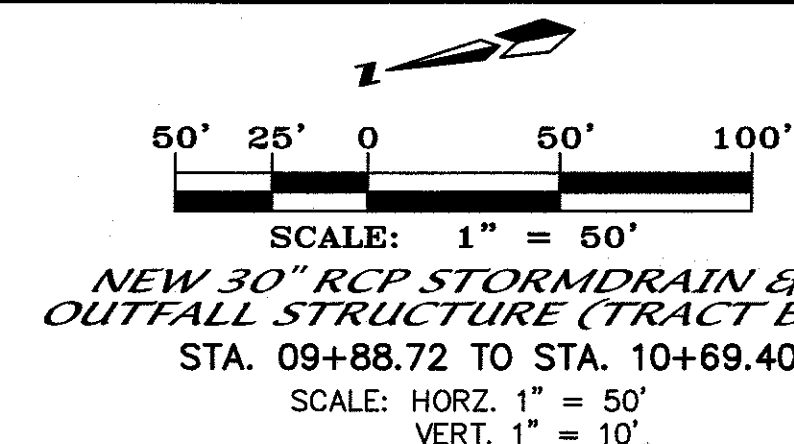
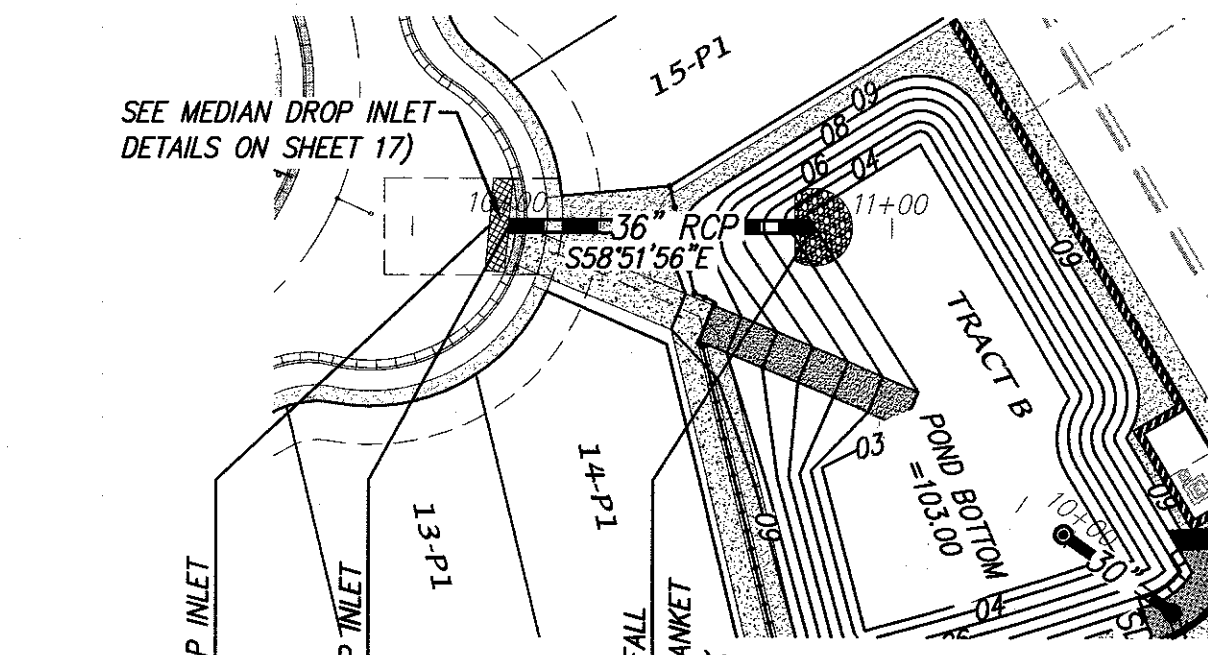
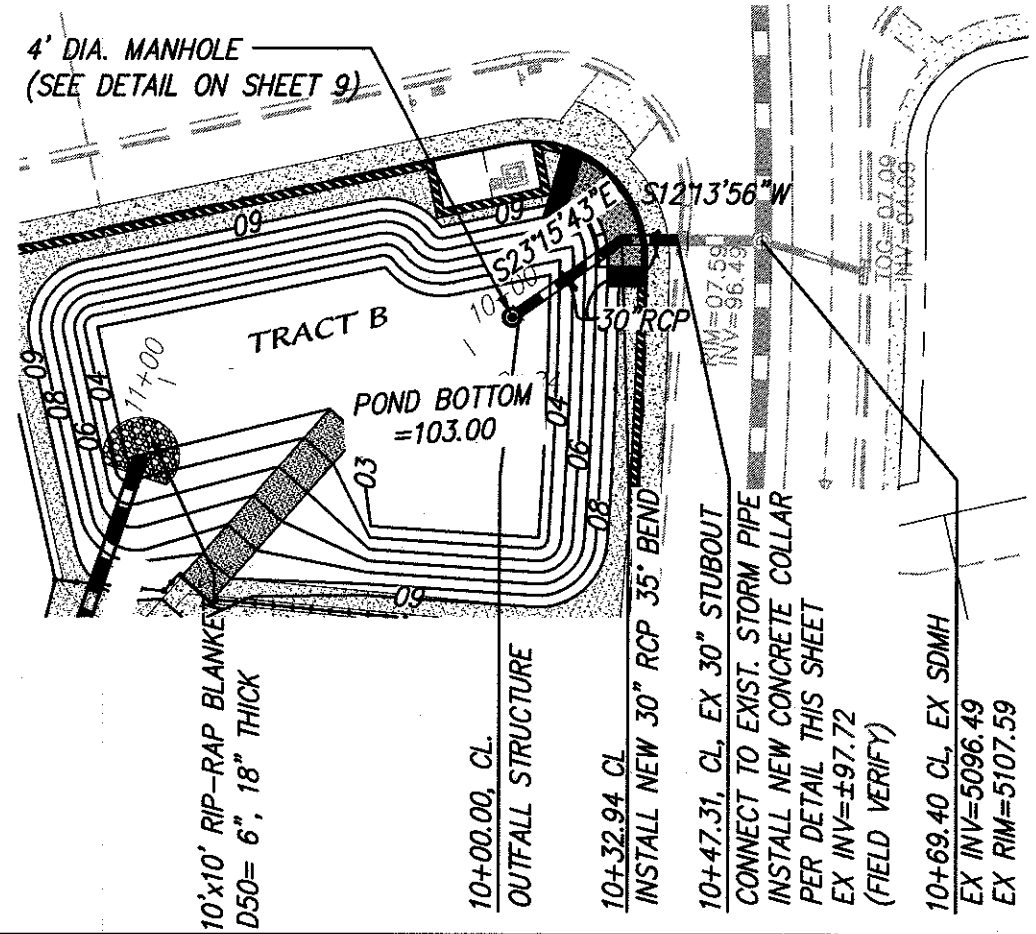
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **LOS DIAMANTES SUBDIVISION
SADDLEHORN TRAIL SW & SORRAL WAY SW (TRACT B)
UTILITY PLAN AND PROFILE**

DESIGN REVIEW COMMITTEE
APPROVED
FEB 02 2016

CITY ENGINEER APPROVAL
APPROVED
JAN 05 2017
CITY ENGINEER

CITY PROJECT NO. **722778**
ZONE MAP NO. **N-9-Z**
SHEET **13** OF **17**



NOTES

1. ALL STATIONING IS BASED ON THE CENTERLINE OF PRIVATE ROADWAY.

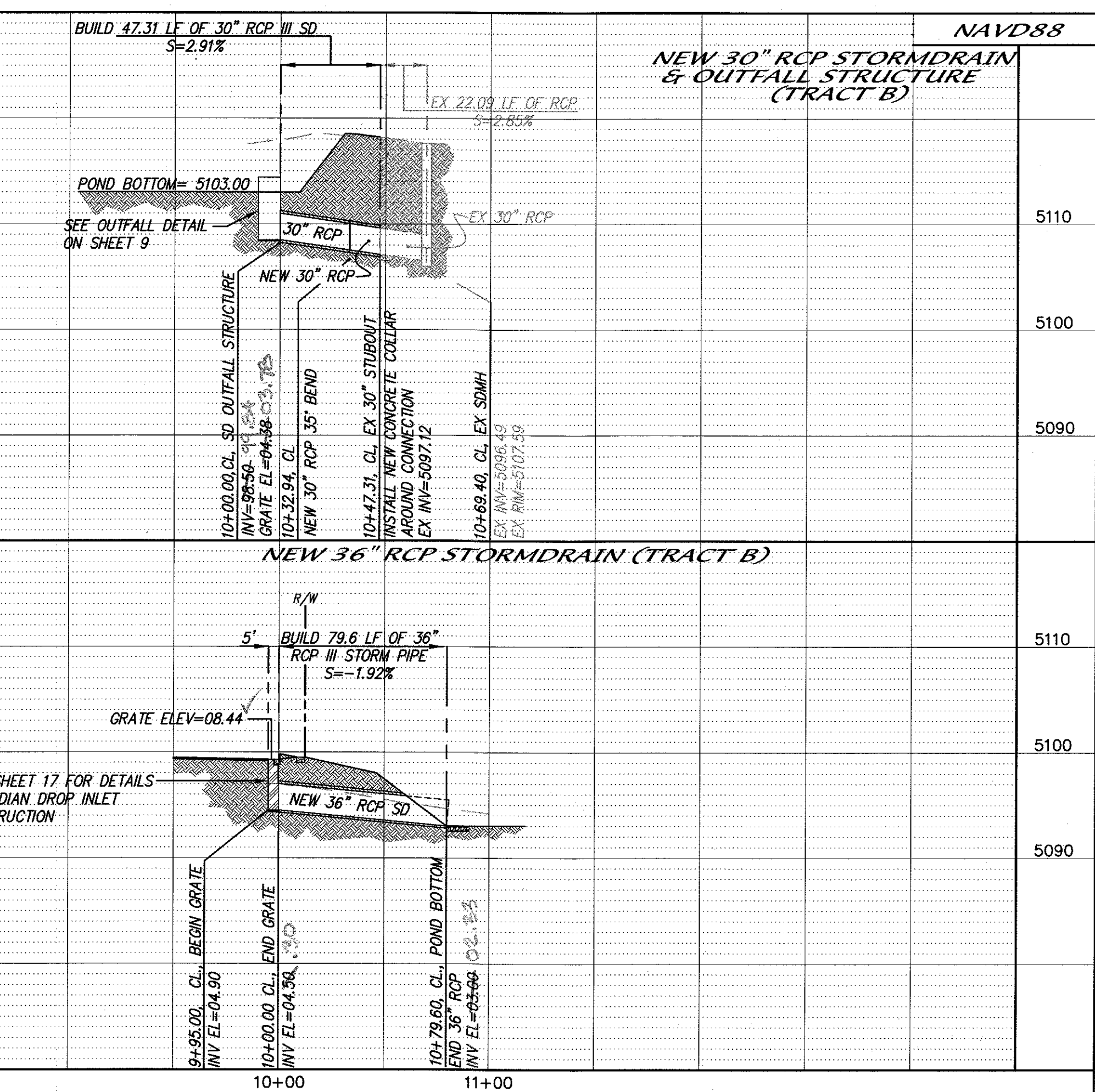
50' 25' 0 50' 100'

SCALE: 1" = 50'

**NEW 36" RCP STORMDRAIN
(TRACT B)**

STA. 09+76.00 TO STA. 10+77.96

SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



I, Mark Goodwin, NMPE 8948, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Russ Hugg NMPS number 3750.



dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200, FAX (505) 797-9539



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: *LOS DIAMANTES SUBDIVISION*
RANGE TRAIL SW/NEW 36" STORMDRAIN & OUTFALL (TRACT B)
UTILITY PLAN AND PROFILE

DESIGN REVIEW COMMITTEE	CITY ENGINEER - APPROVAL		MO./DAY/YR.	MO./DAY/YR.
APPROVED	APPROVED			
FEB 02 2016	JAN 05 2017			
DESIGN REVIEW COMMITTEE	CITY ENGINEER			
		LAST DESIGN UPDATE		

NOTES

- ### LEGEND

The diagram illustrates the 'TRENCH PRISM DETAIL' for a trench prism installation. Key components and dimensions include:

- REMOVE & REPLACE A.C. PAVEMENT:** The top section of the diagram indicates the area of asphalt concrete pavement to be removed and replaced.
- 7":** The width of the trench prism.
- 6":** The length of the trench prism.
- 1":** The depth of the trench prism.
- TRENCH PRISM:** The central component being installed.
- EXISTING CURB & GUTTER:** The existing curb and gutter on the left side of the trench.
- EXISTING PAVEMENT:** The existing pavement on the right side of the trench.
- 3" 3" 3" MIN:** The dimensions of the trench prism, indicating a minimum width of 3 inches and a minimum depth of 3 inches.
- EXISTING/NEW WATERLINE PIPE:** The waterline pipe passing through the trench prism.

SCALE: 1"=

I, Mark Goodwin, NMPE #8948, of the firm Mark Goodwin & Associates, P.A. - a Registered Professional Engineer in the State of New Mexico, do hereby certify that my knowledge and experience is based on the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Russ Hugo NMPS number 9750.

Mark Goodin 11/30/17

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200. FAX (505) 797-9539

 CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: *LOS DIAMANTES SUBDIVISION
GIBSON BOULEVARD/BLAKE ROAD SW NEW WL
UTILITY PLAN AND PROFILE*

DESIGN REVIEW COMMITTEE
APPROVED
FEB 02 2016
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROV
APPROVED
JAN 05 2017
CITY ENGINEER

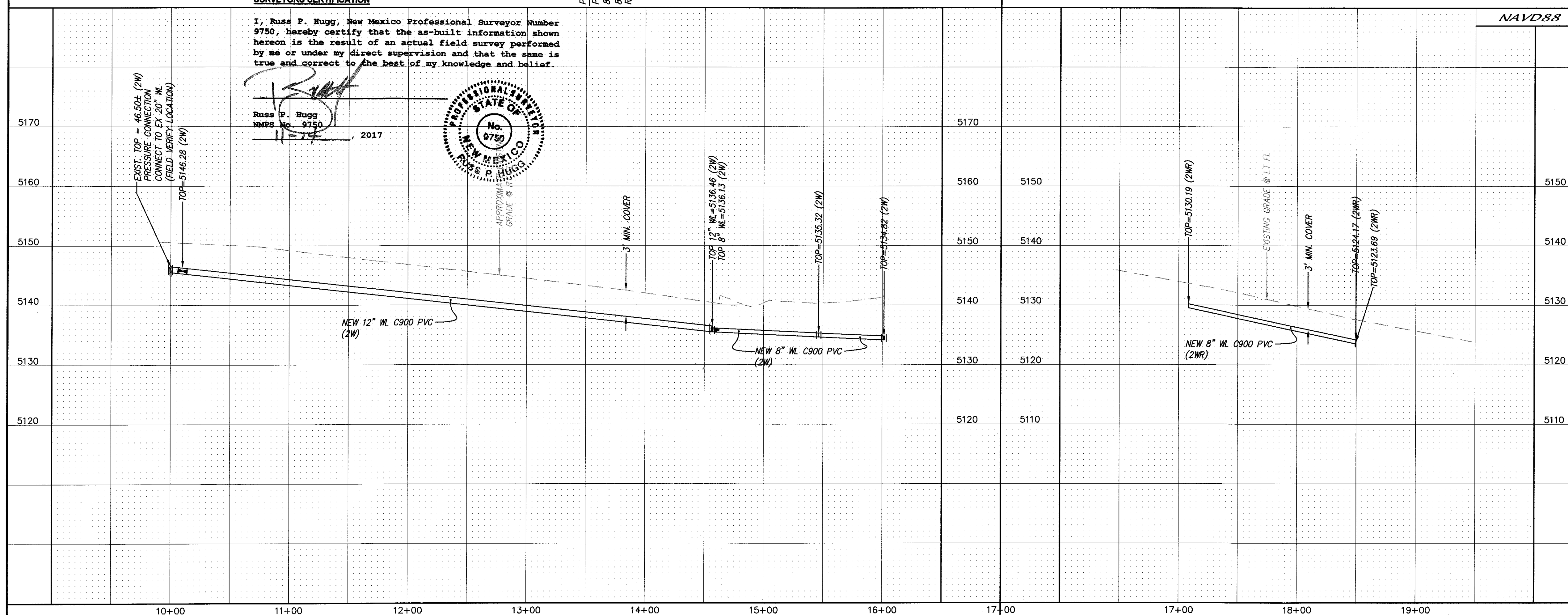
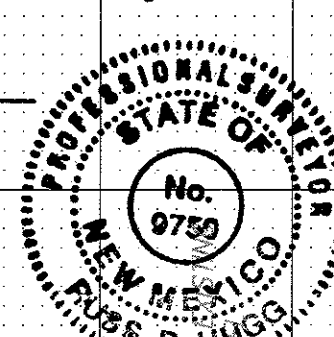
LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
222228	1197	15	1



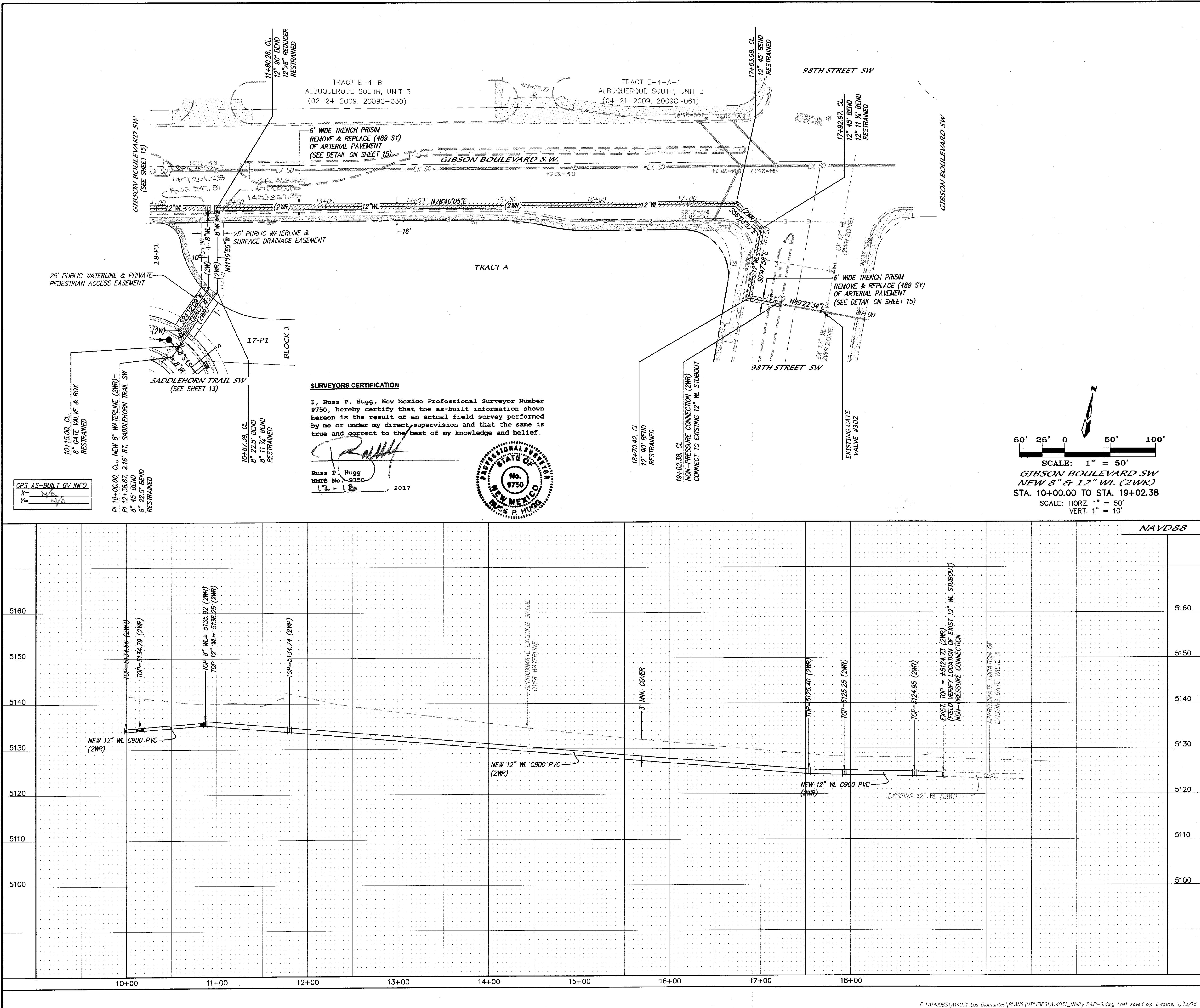
I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMFS No. 9750
11-14, 2017



NAVD88

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
222228	1197	15	1



- NOTES**
1. ALL STATIONING IS BASED ON THE CENTERLINE OF NEW WATERLINE AS SHOWN.
 2. GIBSON BLVD SW & 98TH STREET SW ARE ARTERIAL ROAD CLASS.
- LEGEND**
- REMOVE & REPLACE ARTERIAL PAVEMENT SECTION PER C.O.A. STANDARD DETAIL #2465.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	AGRS Brass Cap stamped "TRANS 1989"	DATE	FIELD NOTES	NO.	REMARKS	BY
INSPECTOR	DATE	From the intersection of Central Avenue and 98th Street SW go south on 98th Street 2.0 miles to PNM Electric Substation on the left. The station is east of the substation and south of PNM pylon 52.	DATE	NO.			
FIELD VERIFICATION BY	DATE						
CORRECTED BY	DATE						
MICRO-FILM INFORMATION		Geographic Position, in feet (NAD83)		DESIGNED BY		DATE	
RECORDED BY		N.M. State Plane Coordinates (Central Zone)		DRAWN BY		DATE	
NO.		Elevation, in feet (NAVD83)-5121.089		CHECKED BY		DATE	

I, Mark Goodwin, NMPE 8948, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections provided by Russ Hugg NMPS number 9750.

Mark Goodwin 1/30/17

MARK GOODWIN
REGISTERED PROFESSIONAL ENGINEER
8948

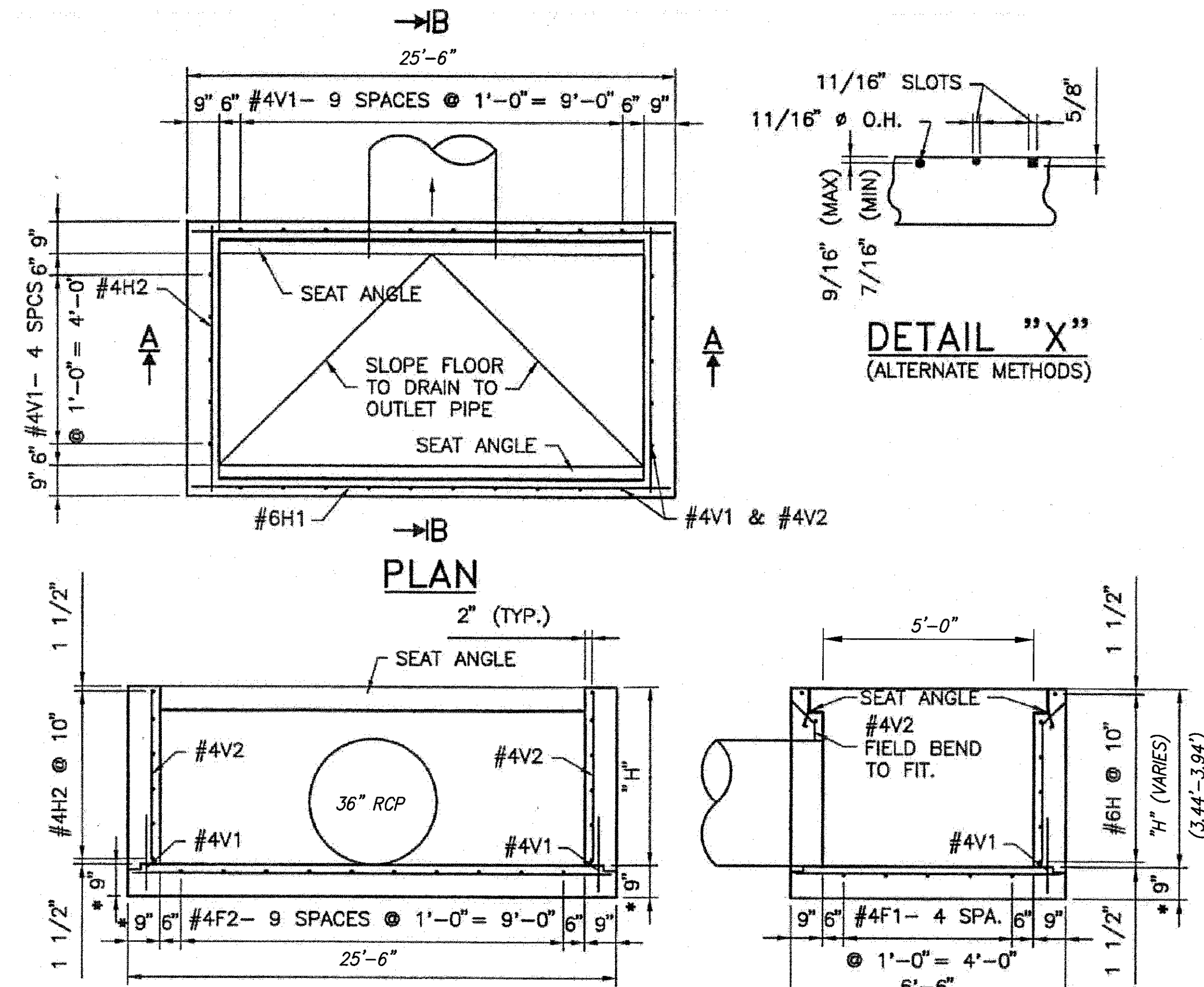
dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **LOS DIAMANTES SUBDIVISION**
GIBSON BOULEVARD SW NEW 8" & 12" WL (2WR)
UTILITY PLAN AND PROFILE

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED FEB 02 2016 DESIGN REVIEW COMMITTEE	APPROVED JAN 05 2017 CITY ENGINEER		

CITY PROJECT NO. **722778** ZONE MAP NO. **N-9-Z** SHEET **16** OF **17**



DETAIL "X"
(ALTERNATE METHODS)

SECTION A-A

SECTION B-B

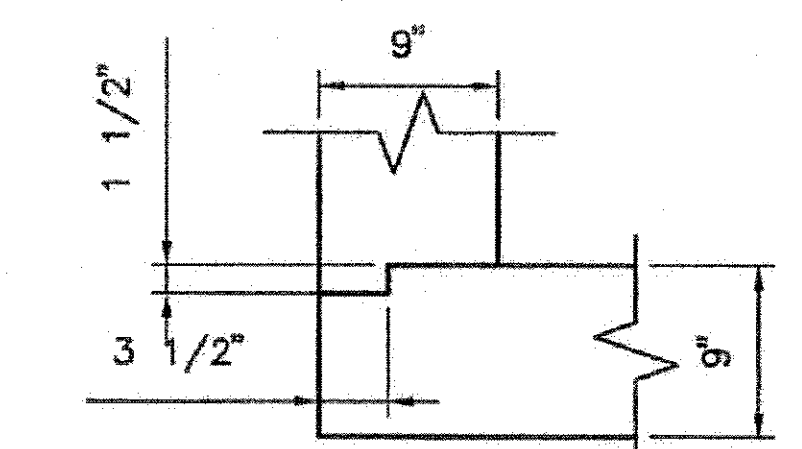
NOTE: FIELD CUT AND BEND REBAR AS REQUIRED TO CLEAR SEAT ANGLES AND PIPE OPENINGS (2" MINIMUM CLEARANCE).

* AVERAGE BOTTOM THICKNESS USE 8 1/2" AT OUTLET AND 9 1/2" AT HIGH SIDE.

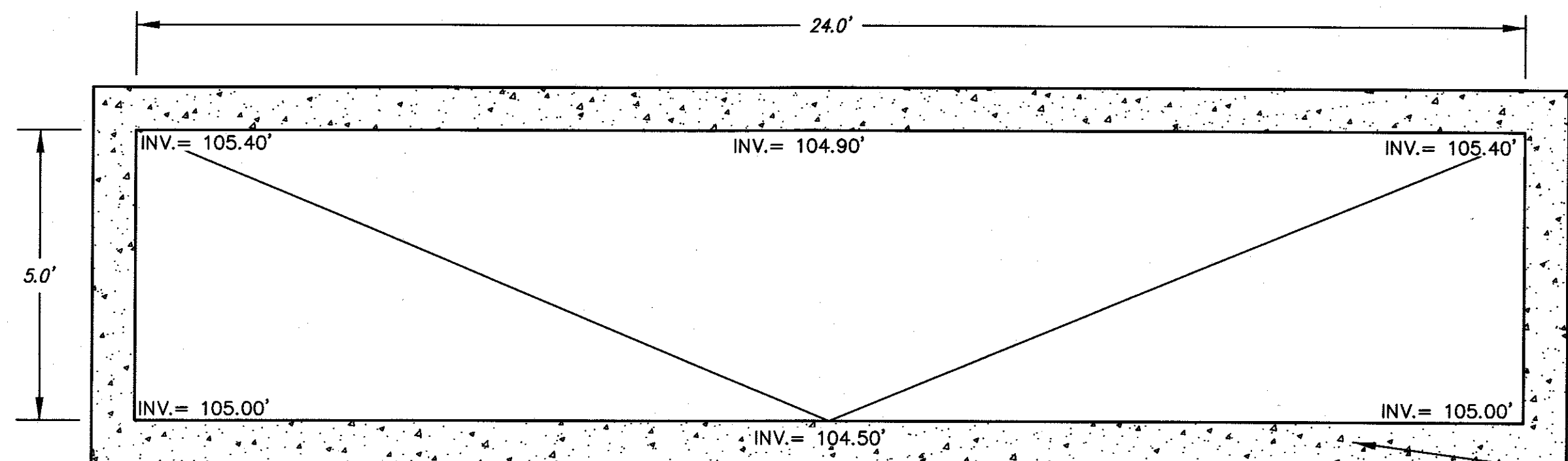
"H" = DIA. OR RISE OF PIPE + "Y" MINIMUM, AND 15'-0" MAXIMUM.

"Y"	DIAMETERS AND RISES UP TO AND INCLUDING 48"	DIAMETERS AND RISES GREATER THAN 48"
1'-3"		
2'-0"		

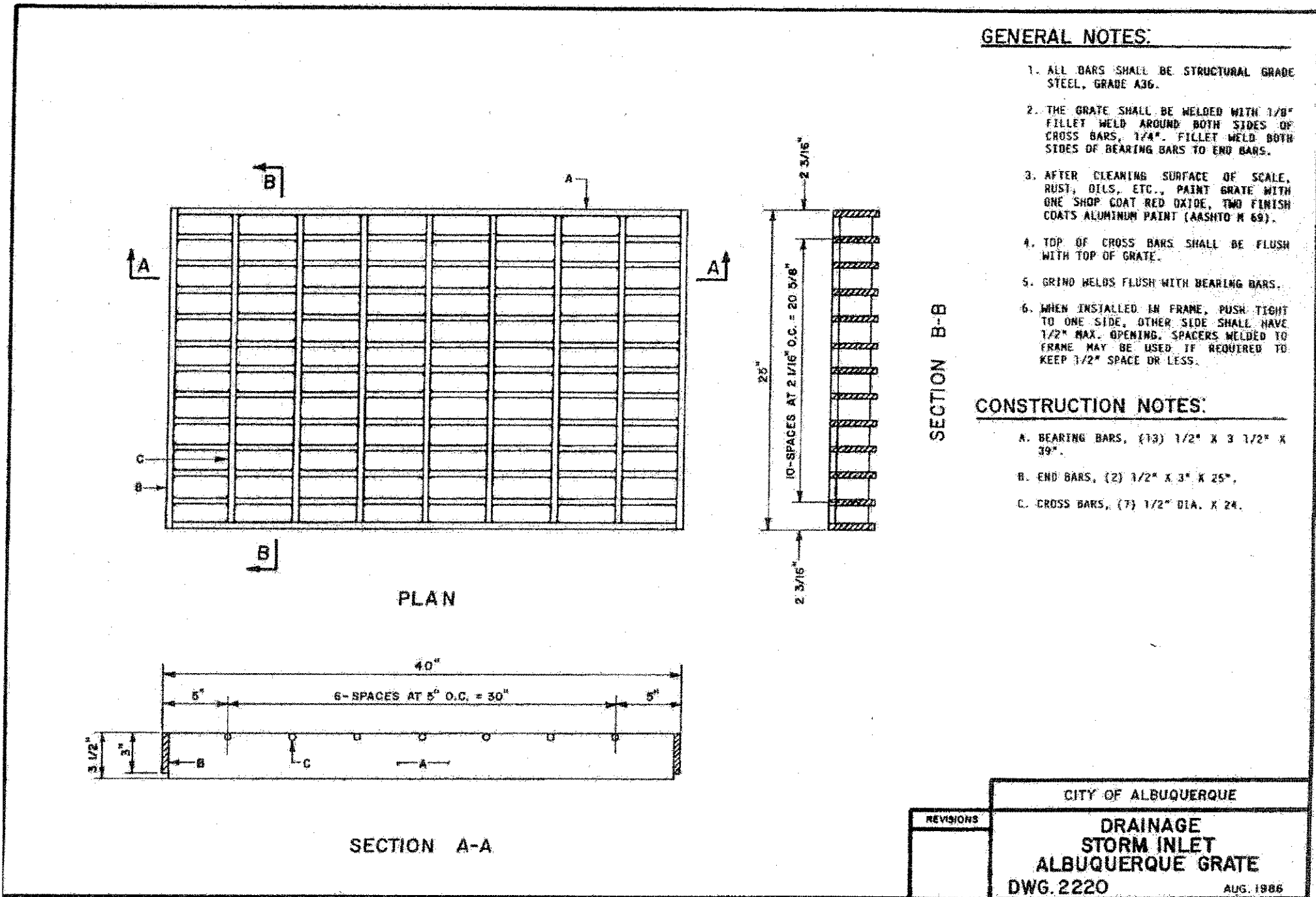
NOTE: IF R.C.P. IS USED, ADD WALL THICKNESS TO DIMENSION "Y".



CONSTRUCTION JOINT
DETAIL



PLAN VIEW

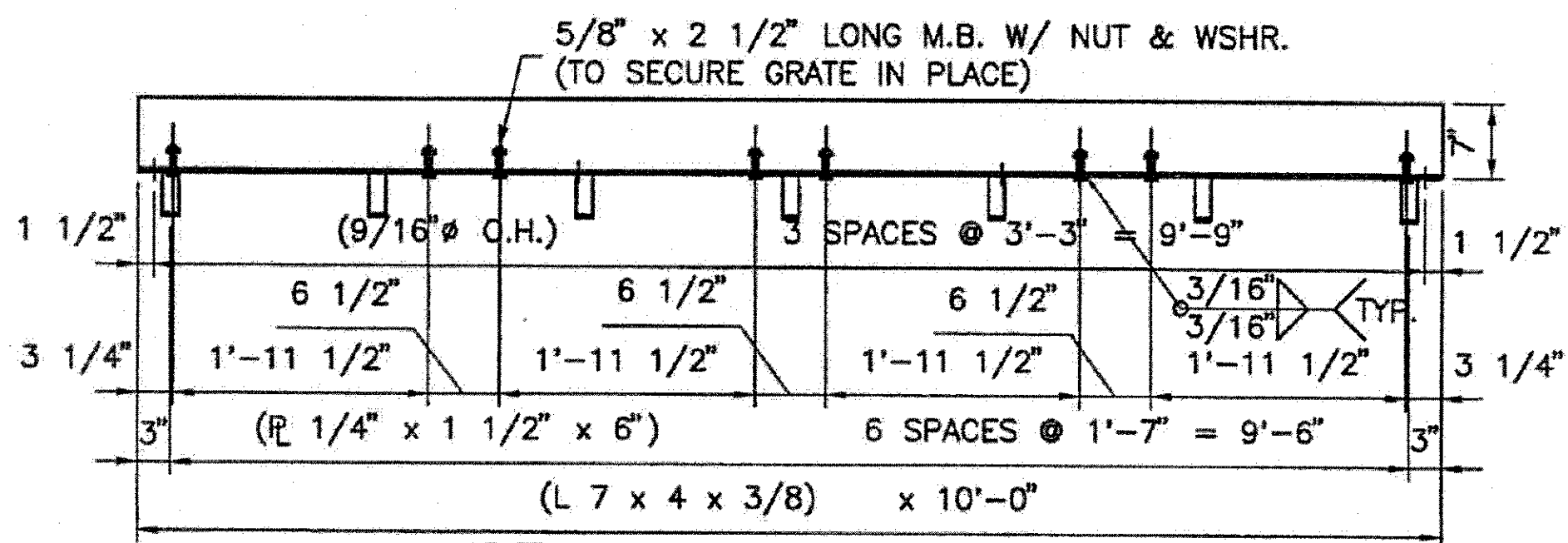


GENERAL NOTES:

1. ALL BARS SHALL BE STRUCTURAL GRADE STEEL, GRADE A36.
2. THE GRATE SHALL BE WELDED WITH 1/8" FILLET WELD AROUND BOTH SIDES OF CROSS BARS, 1/4", FILLET WELD BOTH SIDES OF BEARING BARS TO END BARS.
3. AFTER CLEANING SURFACE OF SCALE, RUST, OILS, ETC., PRIME GRATE WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS ALUMINUM PAINT (AASHTO M 40).
4. TOP OF CROSS BARS SHALL BE FLUSH WITH TOP OF GRATE.
5. GRIND WELDS FLUSH WITH BEARING BARS.
6. WHEN INSTALLED IN FRAME, PUSH TIGHT TO ONE SIDE, OTHER SIDE SHALL HAVE 1/2" MAX. OPENING. SPACES WELDED TO FRAME MAY BE USED IF REQUIRED TO KEEP 1/2" SPACE OR LESS.

CONSTRUCTION NOTES:

- A. BEARING BARS, (13) 1/2" X 3" X 1/2" X 39"
- B. END BARS, (2) 1/2" X 3" X 25"
- C. CROSS BARS, (7) 1/2" DIA. X 24"

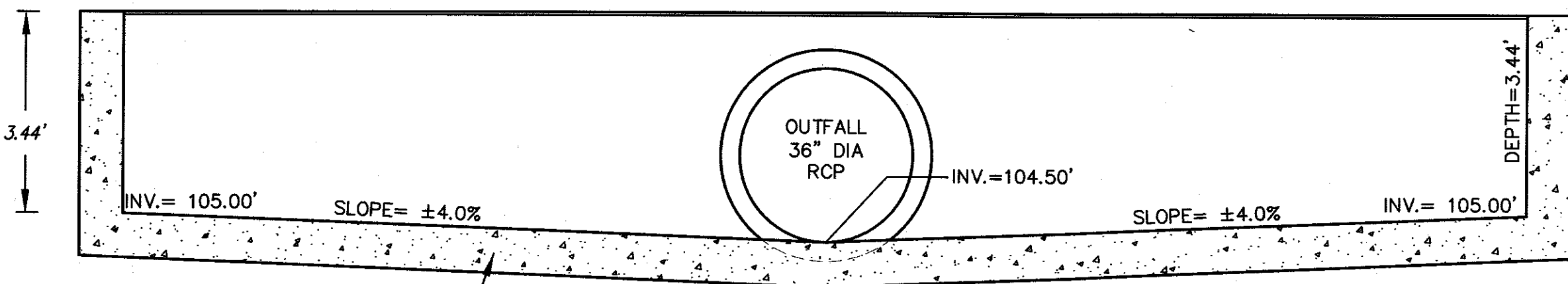


SEAT ANGLE DETAILS
(2 REQUIRED)

MARK	LENGTH	NO REQ'D
* #H61	11'-3"	2+2.4" H'
* #4H2	6'-3"	2+2.4" H'
#4V1	1'-9"	30
#4V2	"H"-3"	30
#4F1	11'-3"	5
#4F2	6'-3"	10

REINFORCING BAR SCHEDULE

*NOTE: ROUND OFF NUMBER REQUIRED TO THE NEAREST EVEN NUMBER.



PROFILE VIEW

*FOR STRUCTURAL DETAIL, REFER TO N.M.D.O.T. DWG 623-05-1/1 ABOVE

GENERAL NOTES

1. WORKMANSHIP AND MATERIALS SHALL CONFORM TO NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. ALL CONCRETE SHALL BE CLASS "A". CHAMFER EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED ON THE DETAILS.
3. REINFORCING BARS SHALL CONFORM TO AASHTO SPECIFICATION M 31, GRADE 60. DIMENSIONS REFER TO THE CENTERLINE OF BAR UNLESS OTHERWISE NOTED ON THE DETAILS.
4. STRUCTURAL STEEL SHALL CONFORM TO AASHTO SPECIFICATION M 183 AND SHALL BE GIVEN A PROTECTIVE COATING IN CONFORMANCE WITH THE SPECIFICATIONS.

DRAWINGS REQUIRED

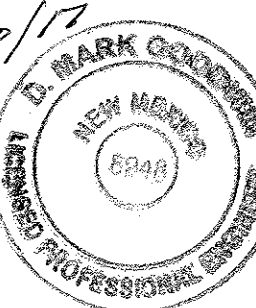
ROADWAY DESIGN DRAWINGS: FOR PIPE TYPE, LOCATION, HEIGHT, SKEW ANGLE, AND NUMBER REQUIRED.

DESIGN DATA

DESIGN ACCORDING TO AASHTO SPECIFICATIONS CURRENT EDITION.

DESIGN STRESSES:
REINFORCED CONCRETE: $f_c = 1200$ psi, $f_y = 60,000$ psi, $n = 10$.
STRUCTURAL STEEL: $f_s = 20,000$ psi, $f_y = 36,000$ psi.
EARTH PRESSURE: 36 lbs./cu.ft. EQUIV. FLUID PRESSURE 2'-0" SURCHARGE.
LIVE LOAD ON STANDARD GRATING: ONE 16,000 lbs. WHEEL PLUS 30 % IMPACT, 15 % OVERSTRESS.

I, Mark Goodwin, NMPE 8948, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Russ Hugg NMPS number 9750.



dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
OFFICE (505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT	
TITLE: LOS DIAMANTES SUBDIVISION MEDIAN DROP INLET DETAILS	
DESIGN REVIEW COMMITTEE APPROVED FEB 02 2016 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED FEB 02 2016 CITY ENGINEER
DESIGNED BY: DMG	DATE: 01/15
DRAWN BY: DER	DATE: 01/15
CHECKED BY: DMG	DATE: 01/15
CITY PROJECT NO. 722778	ZONE MAP NO. N-9-Z
SHEET 17 OF 17	