



# CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT

CONSTRUCTION PLANS FOR



# PROJECT LOCATION

ZONE ATLAS MAP NO. F-15

# NORTH SECOND STREET BUSINESS CENTER

# INFRASTRUCTURE IMPROVEMENTS

ESCRIPTION	SHEET NO
COVER SHEET GENERAL NOTES PLAT GRADING & DRAINAGE PLAN (FOR INFORMATION ONLY) OVERALL PAVING PLAN OVERALL UTILITY PLAN TYPICAL SECTION & DETAILS MISCELLANEOUS DETAILS 2nd ST MEDIAN PLAN & PROFILE PAVING PLAN & PROFILE UTILITY PLAN & PROFILE OVERALL SIGNING AND STRIPING	1 2 3 4 5 6 7 8 9 10 11

RECORD DRAWING CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, <u>John M. MacKenzie</u>, NMPE <u>11619</u>, of the firm <u>Mark Goodwin & Associates</u>, <u>PA</u>, 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 Rex Vogler,

I, John M. MacKenzie, certify that this electronic version is identical to the original reproducible APPROVED FOR CONSTRUCTION drawings signed by me on <u>August 18</u>, 20<u>08</u>.

drawings is accepted for RECORD purposes by

SURVEYOR'S AS-BUILT CERTIFICATION:

I, Rex J. Vogler, a registered Professional Surveyor licensed under the laws of the State of New Mexico, certify that the supplemental as-built data added and shown on these drawings was obtained from field construction and as-built surveys performed by me or under my direct supervision, and said supplemental as-built data is true and correct to the best of my knowledge and belief. I, the undersigned, am not responsible for any design concepts, calculations, engineering or intent of the record drawings, plans or other contract

Rex J. Vogler, NMPS #10466 d.b.a. Rio Grande Surveying Co. P.O. BOX 7155 Abq. NM 87194

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED:

ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.

BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.

TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.

SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS

SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS

IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.

ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE. RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF CONSTRUCTION.

ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, AS AMENDED THROUGH UPDATE #7

EXECUTION OF THE WATER VALVE SHUT-OFF PLAN WITH ABCWUA (857-8200) SEVEN (7) WORKING DAYS IN ADVANCE

TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALLS SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.

CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY ARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD

ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.

CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER 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.

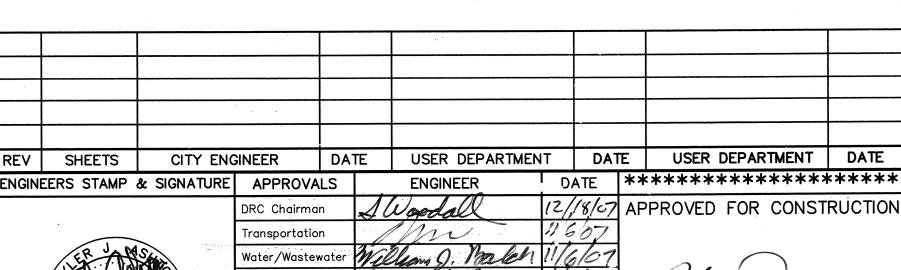
ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR (24) CONSTRUCTION.

CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY.

PRIVATE STREETS: DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING & MAINTAINING ALL SIGNING & PAVEMENT MARKINGS WITHIN PRILATE STREETS AND DEVELOPMENT.



WILSON APPROVED AS RECORD DRAWINGS

4900 LANG AVENUE N.E. ALBUQUERQUE, NEW MEXICO PH: (505) 348-4000 FAX: (505) 348-4072 www.wilsonco.com

DRB #1004919

Hydrology Parks City Project No.

Water/Wastewater Williams Q. Parlel Constr. Mngmt. Constr. Coord.

City Engineer

WCEA FILE NO. 066009000

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# **GENERAL NOTES:**

- 1. THE CONTRACTOR SHALL NOTIFY THE ALBUQUERQUE TRAFFIC ENGINEERING DIVISION THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK REQUIRED REGARDING ALL EXISTING REGULATORY SIGNS AND SIGNALS THAT NEED TO BE REMOVED, RELOCATED, OR REINSTALLED. CALL 857-8680. REFER TO SECTION 18.4.4 OF THE SPECIFICATIONS.
- 2. THE CONTRACTOR WILL BE REQUIRED TO CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR R.O.W. TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAY OPENINGS OR DESIGNATED TRAFFIC L'ANES.
- 3. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELING PEDESTRIAN TRAFFIC AROUND ALL WORK AREAS THROUGHOUT THE CONSTRUCTION PERIOD.
- 4. A DISPOSAL SITE, COMPLYING WITH ALL CITY ORDINANCES, SHALL BE OBTAINED BY THE CONTRACTOR FOR THE DISPOSAL OF ALL EXCESS EXCAVATION MATERIAL, ASPHALTIC PAVEMENT (EXCEPT MILLED BITUMINOUS CONCRETE PAVEMENT) AND OTHER WASTE MATERIALS. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE OF THE LOCATION OF THE DISPOSAL SITE PRIOR TO THE REMOVAL AND ACTUAL DISPOSAL OF THE MATERIAL. ALL COSTS IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.
- 5. CONTRACTOR TO CAREFULLY FIELD REVIEW SITE TO ASSESS EXTENT OF TRASH REMOVAL. TRASH REMOVAL SHALL BE INCLUDED IN BID ITEM "CLEARING & GRUBBING".
- 6. UNLESS OTHERWISE SHOWN, ALL DIMENSIONS ARE TO FACE OF CURB, INCLUDING RADII OF CURB RETURNS.
- 7. ALL FINISHED GRADES AND PROFILES SHOWN ARE FLOWLINE GRADES, UNLESS OTHERWISE NOTED.
- 8. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED PER STD DWG 2415B BY THE CONTRACTOR AT HIS EXPENSE.
- 9. WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE TO NEAREST JOINT.
- 10. WHEN ABUTTING NEW PAVEMENT TO EXISTING PAVEMENT, SAW CUT EXISTING PAVEMENT IN A STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. PRIOR TO LAYING NEW PAVEMENT, THE EXPOSED EXISTING ASPHALT EDGE SHALL BE TACK-COATED.
- 11. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED AT ALL CURB RETURNS CONSTRUCTED WITH THIS PROJECT AT THE LOCATIONS SHOWN ON PLANS, IN ACCORDANCE WITH THE
- 12. ALL WHEELCHAIR RAMP APPROACH SLOPES SHOWN ON STD DWG 2441 SHALL BE INCREASED IN LENGTH TO MAINTAIN 12:1 MAX SLOPE WHEN GRADE IS RISING FROM RAMP. SEE TABLE BELOW.

RISING GRADE	RAMP LENGTH
0%	8.1'
0-1%	9.2'
1-2%	10.6
2-3%	12.6'
3-4%	15.5'

- 13. CONTRACTOR IS TO EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UTILITIES. IT SHALL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION THAT MIGHT RESULT FROM PROJECT CONSTRUCTION. IT SHALL BE HIS RESPONSIBILITY TO PROTECT AND PRESERVE UTILITY EQUIPMENT AFFECTED BY PROJECT CONSTRUCTION. SHOULD HE BREAK AN EXISTING UTILITY LINE DURING CONSTRUCTION ACTIVITIES HE SHALL BE RESPONSIBLE FOR UTILITY REPAIR COSTS.
- 14. ALL EXISTING UTILITIES SHOWN HEREIN WERE TAKEN FROM RECORD DRAWINGS, POTHOLES, FIELD SURVEYS, C.O.A. SYSTEMS UTILITIES MAPS AND INFORMATION PROVIDED BY THE UTILITY OWNERS AND ARE APPROXIMATE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THEIR HORIZONTAL AND VERTICAL LOCATIONS AND PROVIDE PROTECTION FOR ALL UTILITIES WITHIN THE CONSTRUCTION AREA.
- 15. CONTRACTOR SHALL FIELD VERIFY LOCATION AND TYPE OF EXISTING UTILITIES TO BE ADJUSTED OR EXTENDED.
- 16. MANHOLE RIM ELEVATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND WILL VARY WITH THE FINISHED PAVEMENT ELEVATIONS.
- 17. CONTRACTOR TO VERIFY ALL EXISTING FIRE HYDRANT FLANGES, PADS, VALVE BOXES, MANHOLE RIMS AND TOP OF PIPE ELEVATIONS IN THE FIELD. ELEVATIONS SHALL BE ADJUSTED TO COMPLY WITH THE REQUIREMENTS OF STANDARD CITY DETAILS.

- 18. ELEVATIONS FOR PROPOSED WATERLINE CONNECTIONS TO EXISTING WATERLINES SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD.
- 19. ALL WATER VALVE BOXES AND SEWER MANHOLES IN THE CONSTRUCTION AREA ARE TO BE ADJUSTED TO FINISH GRADE UNDER THIS CONTRACT, AND WILL BE PAID FOR AT CONTRACT UNIT PRICES.
- 20. THE CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF WHEN FIRE HYDRANTS WILL BE TAKEN OUT OF SERVICE AND RETURNED TO SERVICE.
- 21. ALL WATER SERVICES LISTED AS "DOUBLE" REFER TO DOUBLE METER BOX. A SEPARATE SERVICE LINE TO EACH METER IS REQUIRED. REFERENCE C.O.A. STD. DRAWINGS 2361, 2362.
- 22. ALL EXISTING GAS VALVE BOXES, GAS MANHOLES, ELECTRICAL MANHOLES, AND TELEPHONE MANHOLES WILL BE ADJUSTED TO GRADE BY OTHERS.
- 23. WHERE PULL BOXES ABUT BACK OF CURB OR ARE LOCATED IN A CONCRETE PAVED AREA, PROVIDE 3/4" EXPANSION MATERIAL AROUND THE PULL BOX. ALL PULL BOXES TO BE FLUSH WITH SURFACE OF CONCRETE.
- 24. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AS WELL AS LOCAL REGULATIONS.
- 25. THE CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY ENTITIES AS NEEDED FOR RELOCATION AND INSTALLATION OF PRIVATE UTILITIES. ENGINEER HAS NOTIFIED THE PRIVATE UTILITIES OF THIS PROJECT.
- 26. TEMPORARY EROSION FENCING (OR PERMANENT WALLS OR FENCING) SHALL BE USED TO PROTECT EXISTING RESIDENTIAL PROPERTY, STREETS LANDSCAPING AND THE DRAINAGE SYSTEMS FROM THE DEPOSITION OF ERODED MATERIAL.
- 27. CONSTRUCTION AREA SHALL BE CONTROLLED TO PREVENT TRESPASS USE BY 4WD'S, ORV'S AND MOTORCYCLES TO MINIMIZE NOISE, DUST, DESTRUCTION OF VEGETATION, WIND AND WATER EROSION.
- 28. PROPOSED WATERLINE INSTALLATION SHALL HAVE RESTRAINED JOINTS AT ALL WATERLINE VALVES, TEES, CROSSES, BENDS, AND FIRE HYDRANTS, UNLESS OTHERWISE NOTED. SEE "THRUST RESTRAINT REQUIREMENTS" BELOW.
- 29. IF HUMAN REMAINS ARE DISCOVERED ON THE SITE, All CONSTRUCTION WILL CEASE HAD THE OFFICE OF THE MEDICAL EXAMINER MUST BE CONTACTED FOR FURTHER INSTRUCTIONS.

UTILITY CONTACTS							
COMPANY	PHONE	MOBILE	CONTACT				
ABCWUA	505.924.3988		NANCY MUSINSKI				
PNM - ELECTRIC	505.241.3421	505.934.8798	ART CHAVEZ				
PNM - GAS	505.241.7771		JOE DUNLOP				
QWEST	505.245.8530	·	ROSARIO KNIFFIN				
NM ONE CALL	505.260.1990						
COMCAST	505.761.6235		ROBERT MARTINEZ				

	PVC WATER PIPE THRUST RESTRAINT REQUIREMENTS (SEE NOTE 1) LENGTHS OF PIPE TO BE RESTRAINED (FEET) FITTING TYPE								
PIPE SIZE	90° 45° 22 1/2° 11 1/4° TEE DEAD								
10"		20'							
10"			****			54'			
6"	-				1'				

1. VARIABLE DESIGN PARAMETER ASSUMPTIONS: GM & SM (CLASS III) SOIL TYPES: SAFETY FACTOR = 1.5; MINIMUM BURY DEPTH = 3 FEET; SOIL WEIGHT = 110 PCF; DESIGN (TEST) PRESSURE = 150 PSI.

2. TEES: RESTRAINED LENGTHS SHOWN ARE FOR THE BRANCH LEG OF THE TEE ONLY. EACH RUN OF PIPE ON THE MAIN STRAIGHT THRU LINE ADJACENT TO BOTH SIDES OF THE TEE SHALL BE MINIMUM OF 10' WITHOUT JOINTS OR RESTRAINTS, EXCEPT AT THE FITTING ITSELF.

WILSON

&COMPANY

4900 LANG AVENUE N.E. ALBUQUERQUE, NEW MEXICO

87109 PH: (505) 348–4000 FAX: (505) 348–4072 www.wilsonco.com

WCEA #0660009000

OCT 2007

3. REDUCERS: IF AN UNOBSTRUCTED DISTANCE AS INDICATED IN THE TABLE IS FREE OF BENDS, VALVES, TEES OR OTHER FITTINGS, ON THE SMALL PIPE ADJACENT TO THE REDUCER, RESTRAINT WILL NOT BE NECESSARY.

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CITY OF

City Engineer Approval

GITY ENGINEER

Zone Map No.

F-15

PUBLIC WO

NORTH 2nd S

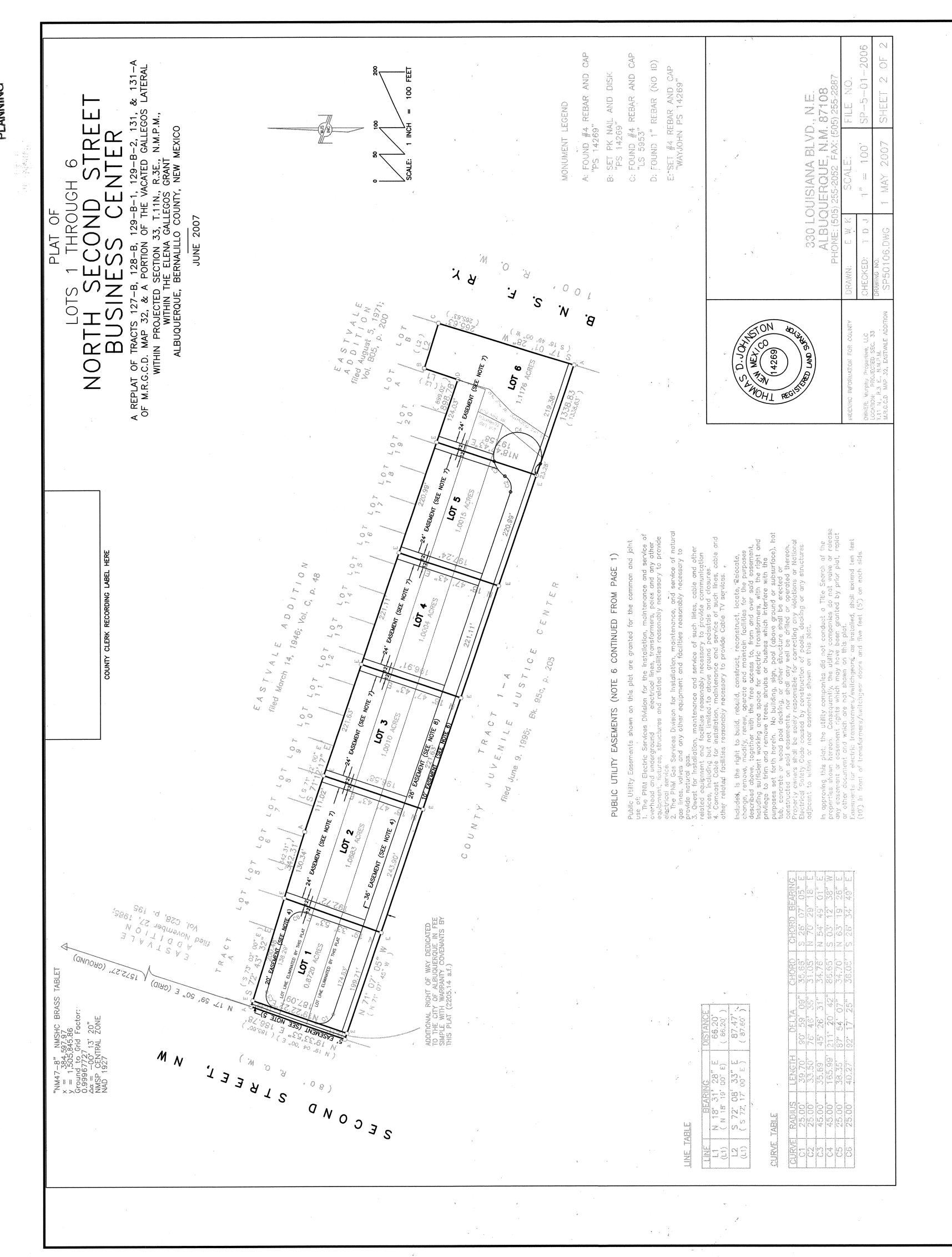
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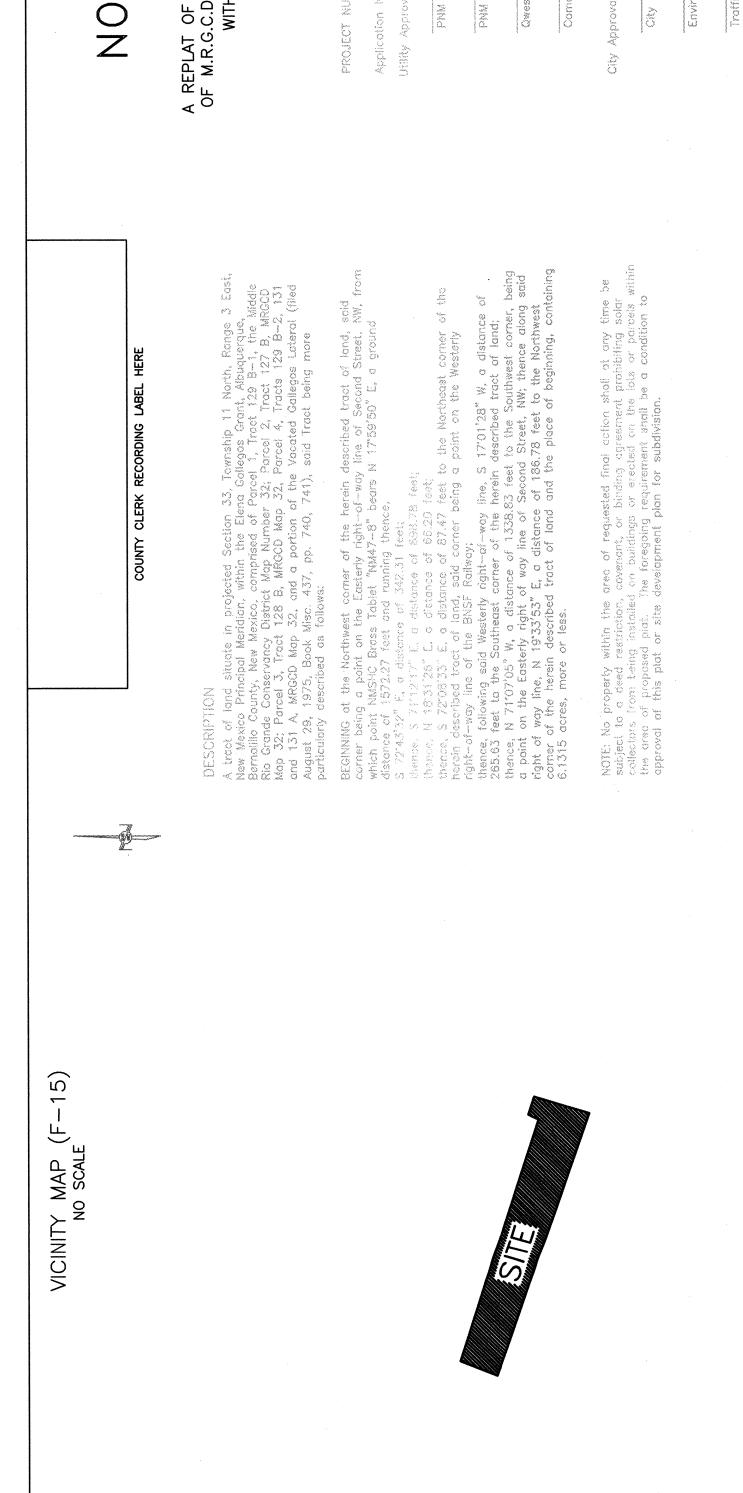
Design Review Committee

City Project No.

RECORD DRAWING								
CERTIFICATE (	ϽF	SUBSTANTIAL	COMPLIANCE	ON PLANS				

I, John M. MacKenzie, NMPE 11619, 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 urvey information provided by <u>Rex Vogler</u>, **W** hn M. MacKenzie 08 18 - 08

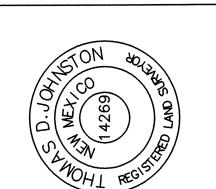




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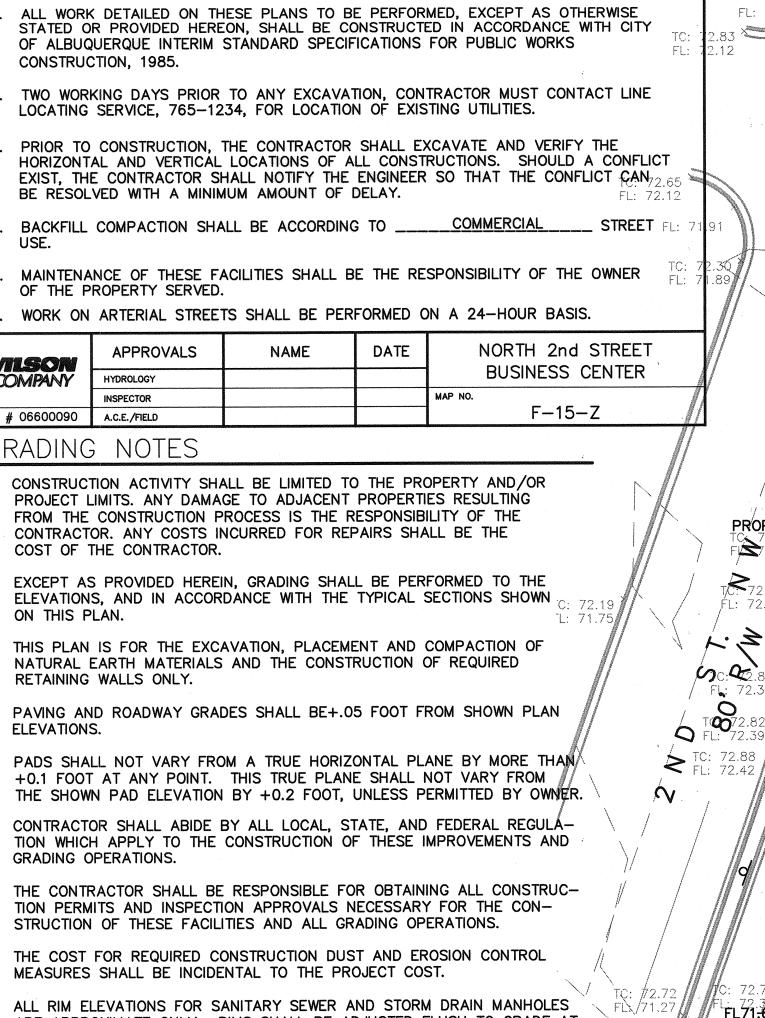
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# SO 19 NOTICE TO CONTRACTOR AN EXCAVATION / CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985. 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES. 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN72 BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. 5. BACKFILL COMPACTION SHALL BE ACCORDING TO \_\_\_\_\_COMMERCIAL 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED. 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS. NORTH 2nd STREET **APPROVALS** NAME WILSON &COMPANY BUSINESS CENTER HYDROLOGY F-15-Z WCEA # 06600090 A.C.E./FIELD GRADING NOTES CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED TO THE ELEVATIONS, AND IN ACCORDANCE WITH THE TYPICAL SECTIONS SHOWN ON THIS PLAN. 3. THIS PLAN IS FOR THE EXCAVATION, PLACEMENT AND COMPACTION OF NATURAL EARTH MATERIALS AND THE CONSTRUCTION OF REQUIRED RETAINING WALLS ONLY. 4. PAVING AND ROADWAY GRADES SHALL BE+.05 FOOT FROM SHOWN PLAN



GRADING OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CONSTRUC-TION PERMITS AND INSPECTION APPROVALS NECESSARY FOR THE CON-STRUCTION OF THESE FACILITIES AND ALL GRADING OPERATIONS. 8. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL

ELEVATIONS.

- MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST. ALL RIM ELEVATIONS FOR SANITARY SEWER AND STORM DRAIN MANHOLES ARE APPROXIMATE ONLY. RIMS SHALL BE ADJUSTED FLUSH TO GRADE AT
- 10. BOULDERS, GREATER THAN 3' IN DIAMETER, EXCAVATED DURING GRADING ACTIVITIES SHALL BE STOCKPILED AND DISPOSED OF AT THE DISCRETION OF THE OWNER.
- 11. UNLESS OTHERWISE SHOWN, DRAINAGE SWALES SHALL HAVE A MINIMUM 1% SLOPE IN THE DIRECTION OF FLOW.

NORTH 2<sup>ND</sup> STREET BUSINESS CENTER

Master Grading & Drainage

Drainage Report

Site Location: The North 2nd Street Business Center is located at 5124 2<sup>nd</sup> Street NW just 72.10 south of the intersection of Montano Road and 2<sup>nd</sup> street. The proposed development will comprise of new buildings with site work improvements. Improvements include a parking lot, curb & gutter, paving, and sidewalk. .: 72.12

Methodology: Section 22.2 of City of Albuquerque DPM was followed to calculate the design volume. The charts and formulas in Part A were followed using the 100-year frequency 6-hour rainfall as the design storm. The site is located in Zone 2 as determined from Table A-1. The total storm volume was calculated as per section A.5. The peak discharge was calculated as per section A.6.

Existing Conditions: The drainage from the site flows in an east to west direction toward 2<sup>nd</sup> Street. Basin 101 encompasses the entire site. The subject property is bounded on the north with CMU wall, east by a building and fencing, and south by chainlink fence. 2<sup>nd</sup> street bounds the west side of the subject area. Off-site flows are cut off by existing fencing or natural ground ridges along the existing property lines and therefore do not enter the site.

Existing volumetric runoff and peak discharge quantities are as shown below:

			<del>decommon and a second and a second as a s</del>	tment			
Basin	Area (ac)	A (%)	B (%)	C (%)	D (%)	V <sub>360</sub> (ac-ft)	Q <sub>p</sub> (cfs)
101	6.12	0	0	90	10	0.627	20.17
Total	6.12					0.627	20.17

Proposed Conditions: The proposed improvements maintained the same flow direction as the existing. The proposed basin remained the same as the existing. Basin 201 will continue to drain into Second Street. Volumetric run-off will primary surface flow onto the private access road along the south property line and discharge onto 2<sup>nd</sup> street. The private access road street capacity is approximately 52.59 cfs. Calculations are provided on figure 1. A portion of the surface flow will be conveyed to 2<sup>nd</sup> street via the north driveway entrance. The north driveway access road is approximately 46.46 cfs. Calculations are provided in figure 1. The proposed runoff from the

entire site is 26.86 which is well below the capacities of both the access road and north driveway.

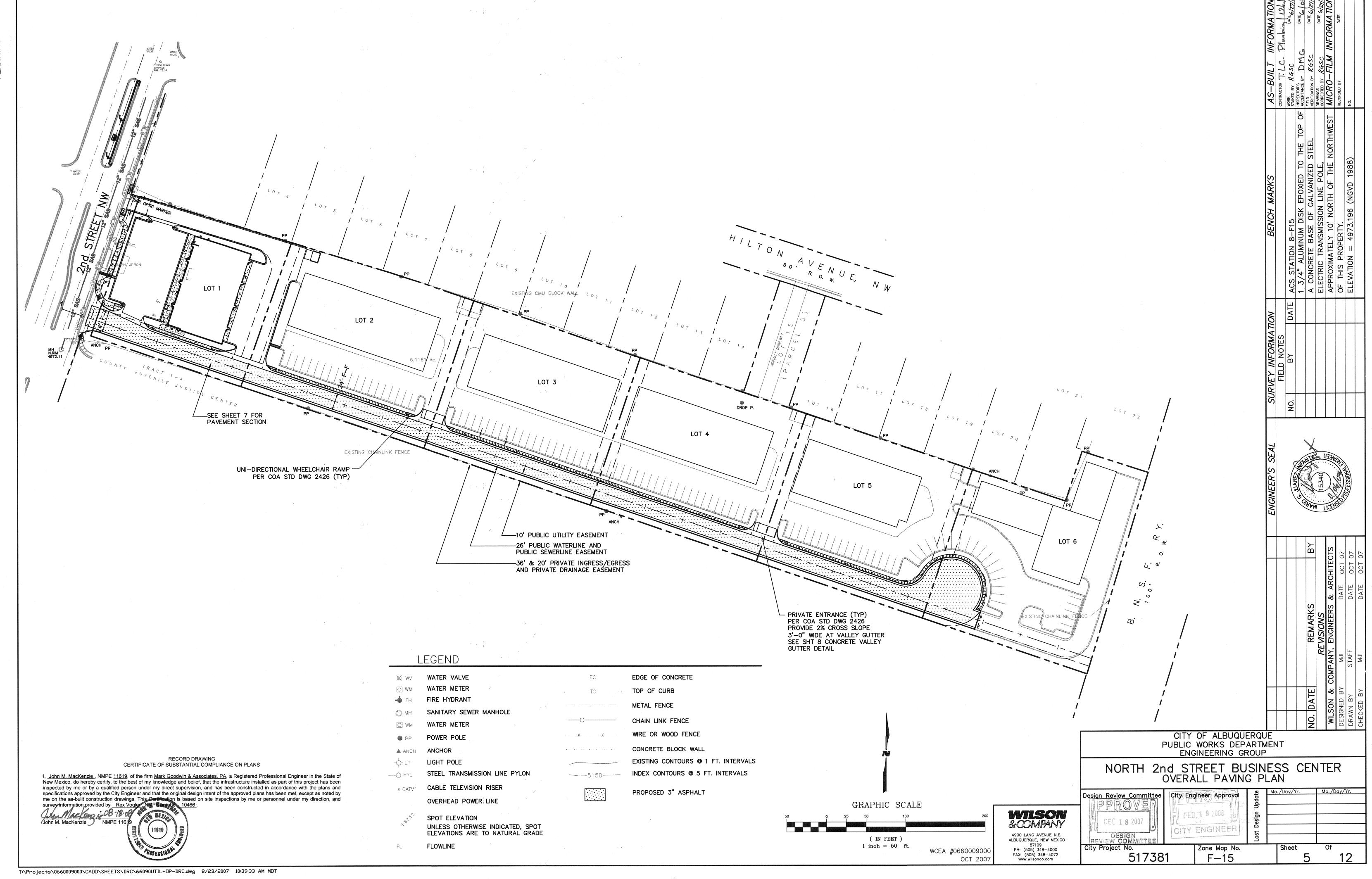
Proposed volumetric runoff and peak discharge quantities are as shown below:

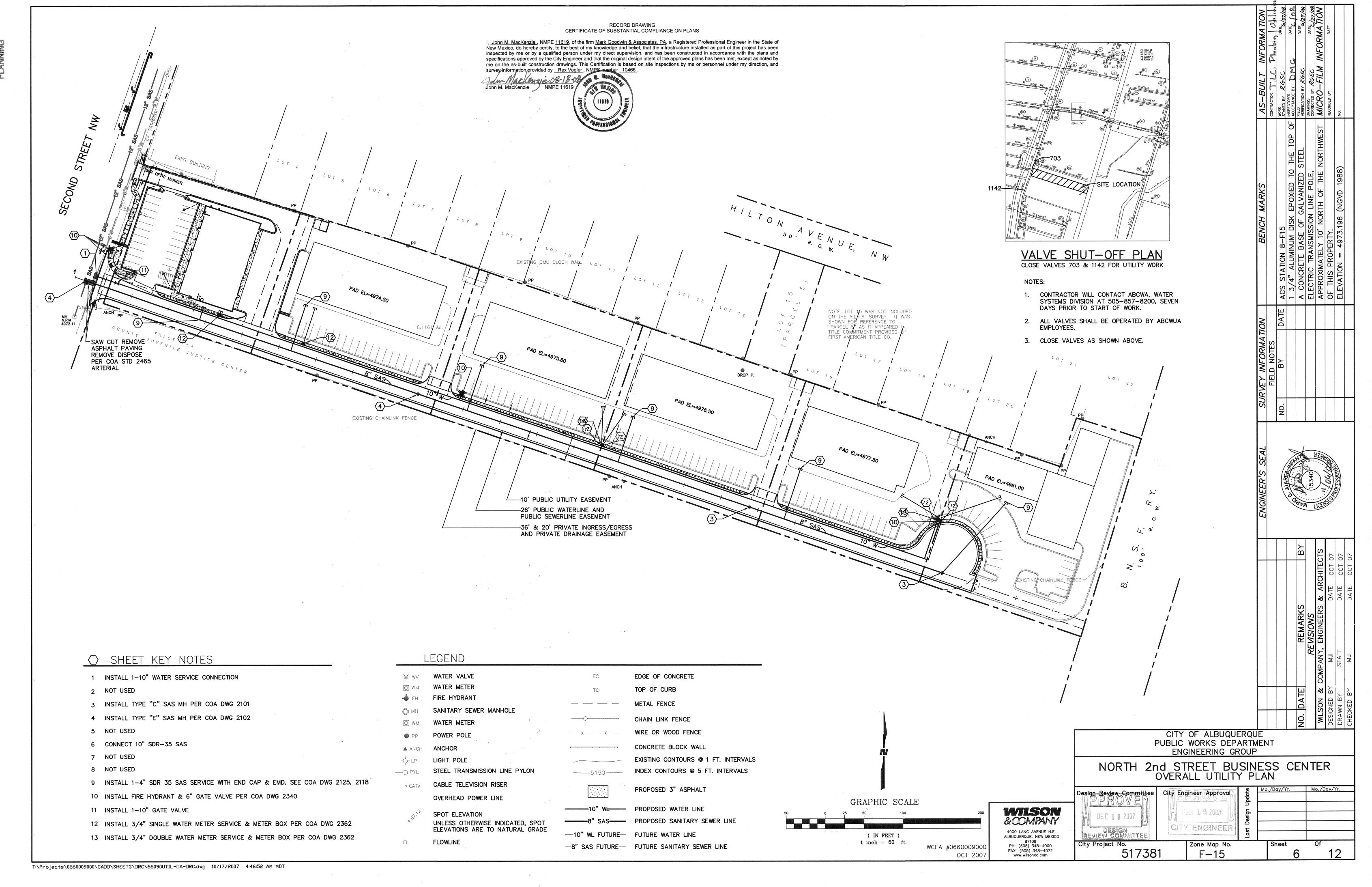
			Trea				
Basin	Area (ac)	A (%)	B (%)	C (%)	D (%)	V <sub>360</sub> (ac-ft)	Q <sub>100</sub> (cfs
201	6.12	10	0	0	90	1.001	26.86
Total	6.12	10			90	1.001	26.86

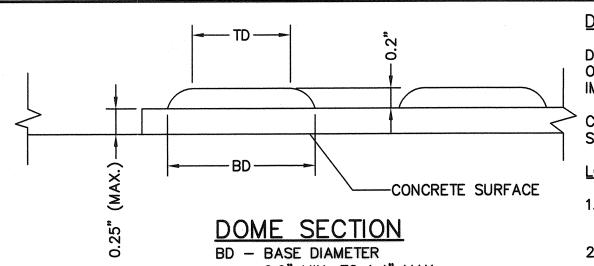
Table 2 - Proposed Conditions

SHEET KEY NOTES POLICE SUBSTATION & CENTRAL TC: 72.43 FL: 71.79 LATH & PLASTER INSTALL 1-24" SIDEWALK CULVERT PER STD DWG 2236 PROJECT LOCATION! 2 INSTALL/1-24" CONCRETE RUNDOWN SEE SHEET, C-502 INSTALL 1 PRIVATE ENTRANCE WITH PCC VALLEY GUTTER WHEELCHAIR RAMP PER STD DWG 2426 SEE SHEET 4 TRUNCATED DOMES AT WHEELCHAIR RAMPS O WATER SEE SHEET C-504 VALVE 12"/CROSSWALK STRIPING INSTALL 20' WIDE PCC DRIVE PAD PER COA STD DWG 2425 INSTALL CONCRETE VALLEY GUTTER PER COA STD DWG 2425 INSTALL CONCRETE VALLEY GUTTER PER COA STD DWG 2421 FL72.74 END STD/ CURB & GUTTER TRANSITION TO MEDIAN CURB & GUTTER -WATER OVER THE LENGTH OF ONE STONE BLOCK 10/ DEPRESSED MEDÍAN CURB & GUTTER TÓ MATCH TOP OF ASPHALT FL 72.95 72.**5671.83** 25' CROWN TRANSITION PER COA STD/DWG 2401 INSTALL 12" CURB NOTCH AT MEDIAN CURB & GUITER. SEE LOCATION MAP SHEET 4 WHEELCHAIR RAMP DTL. GRAPHIC SCALE ZONE ATLAS MAP NO. F-15 FL72.74 -TC73.62 FL72.95 /( IN FEET ) 1/inch = 20 ft FL73.75 FL 73.11 FL73.45 LTC 73.50 SEE KEY NOTE 9 FL73.63 \_TS73.91 FL 73.00 FL73.32 SEE KEY NOTE 9 -TS74.09 PROPOSED 6 SIDEWALK FL73.45 SEE KEY NOTE PROJECT LOCATION ROOF -TS74.09 LTS73.91 -TC74.42 TA74,20 FL73.00 FL72.88 SOILS MAP 'FL71.74 REFERENCE: SCS BERNALILLO COUNTY SOIL SURVEY SHEET NO. 21 FL<del>72.07</del> -TS 73.67 5124 2nd ST NW FL72<del>.68</del>.52 SEE KEY NOTE FL73.85 FINISH FLOOR=4974.25 FL72.97 SEE KEY 100= 6.12 AC 20.17 CFS BASIN 2015 ACC 26.90 ACC 26.90 CFS TC74.15 TA74.15 TC: 72.76 FL: 72.34 LTC73.03 FL72.<del>36</del>-LTC73.57 FL73.07 & PRIVATE ACCESS
EASEMENT LTC73.28 FL<del>72.61</del> 7/.85 FL73.<del>21</del> LTC73.20 FL72.53 **└**TC73.07 COUNT -TC73.42 FL72.<del>75</del> FL72.40 -TC73.84 FL7/3.<del>17</del> FLOOD INSURANCE MAP LFL72<del>.92</del> REFERENCE: FLOOD INSURANCE STUDY PANEL 35001C0119E TC FL TC FL LEGAL DESCRIPTION 1 72.66 71.99 **–** 72.32 `\_TP73.41 2 73.08 72.41 - 71.91 A TRACT OF LAND SITUATE IN PROJECTED SECTION 33, TOWNSHIP 11 73.17 72.50 3 72.50 71.83 NORTH, RANGE 3 EAST, NEW MEXICO PRINCIPAL MERIDIAN, BERNALILLO COUNTY, NEW MEXICO, COMPRISED OF PARCEL 2 TRACT 127B, MRGCD  $\Delta = 85^{\circ}18'29''$  $\Delta = 62^{\circ}31'02''$ L = 27.28'L = 44.67'MAP 32; PARCEL 3, TRACT 128B, MRGCD MAP32, PARCEL 4, TRACTS R = 30.00'R = 25.00'129 B-2, 131 AND 131A, MRGCD MAP 32, AND A PORTION OF THE VACATED GALLEGOS LATERAL (FILED AUGUST 29, 1975, BOOK MISC. 437, PP. 740, 741). FL73.12 **LEGEND** BENCH MARK ACS STATION 8-F15 1 3/4" ALUMINUM DISK EPOXIED **FLOWLINE** WATER VALVE Private Access Road Capacity TO THE TOP OF A CONCRETE BASE OF A METAL FENCE WATER METER n(Mannings Value) =0.017 GALVANIZED STEEL ELECTRIC TRANSMISSION LINE Sx (Cross Slope)= 2% FIRE HYDRANT POLE, APPROXIMATELY 10' NORTH OF THE CHAIN LINK FENCE So( Cross slope of the gutter)=6.25% NORTHWEST OF THIS PROPERTY. ELEVATION SANITARY SEWER MANHOLE T=Width (Allowable Top Width) WIRE OR WOOD FENCE 4973.196 (NGVD 1988) d=Depth (Max. Allowable depth)  $Q = 0.375 \left( \frac{1}{nS} \right) d^{8/3} S_o^{1/2} =$ WATER METER O WM S,=Slope of Road CONCRETE BLOCK WALL CITY OF ALBUQUERQUE POWER POLE PUBLIC WORKS DEPARTMENT EXISTING CONTOURS @ 1 FT. INTERVALS ENGINEERING GROUP So=6.25% A ANCH ANCHOR INDEX CONTOURS @ 5 FT. INTERVALS Sr=0.5% NORTH 2ND STREET d = TSxLIGHT POLE -O- LP WILSON STEEL TRANSMISSION LINE PYLON **BUSINESS CENTER** PROPOSED 3" ASPHALT &COMPANY 4900 LANG AVE ALBUQUERQUE, NEW MEXICO CABLE TELEVISION RISER & DRAINAGE BASIN (01) EXISTING BASIN DESIGNATION OVERHEAD POWER LINE (505) 348-4000 Sx=2% Sx=2% (505) 348-4072 Fax PLAN So=6.25% n=0.017 So=6.25% n=0.017 PROPOSED BASIN DESIGNATION www.wilsonco.com SPOT ELEVATION S,=0.5% S,=0.5% UNLESS OTHERWISE INDICATED, SPOT NO. DATE ELEVATIONS ARE TO NATURAL GRADE EXISTING BASIN BOUNDARY Q<sub>Street</sub>=46.46 cfs EDGE OF CONCRETE PROPOSED BASIN BOUNDARY Figure 1.- Private Access Road Capacity TOP OF CURB ROOF DRAIN FLOW DIRECTION MJI WCEA NO. 06600090 DATE APR 2007 DESIGN **Conclusion:** In conclusion, comparing existing conditions to proposed development, there will be PROPOSED 4" PCC SIDEWALK an increase of approximately 6.69 cfs or 33% more drainage into Second Street. The increase in SWALE/DIRECTION OF SURFACE FLOW SHEET NO. STAFF DRAWN peak discharge will not significantly impact the flow into Second Street. Equally important, street C - 103capacities are adequate for storm run-off conveyance. CHECK PROPERTY LINE

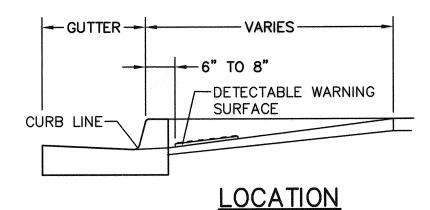
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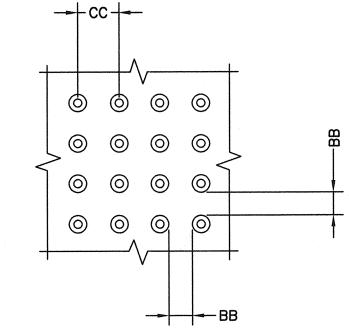






0.9" MIN. TO 1.4" MAX
TD — TOP DIAMETER
50% OF BD MIN TO 65% OF BO MAX





# DOME SPACING CC - CENTER TO CENTER SPACING

1.6" MIN. TO 2.4" MAX
BB - BASE TO BASE SPACING
0.55" MIN

DOME SPACING

DETECTABLE WARNING SURFACES SHALL EXTEND 24" MIN. IN THE DIRECTION OF TRAVEL AND FULL WIDTH OF THE CURB RAMP, LANDING, OR TRANSITION. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF THE CROSS WALK TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

# **DEFINITIONS:**

DETECTABLE WARNINGS — A SURFACE FEATURE BUILT IN OR APPLIED TO WALKING SURFACES OR OTHER ELEMENTS TO WARN OF HAZARDS ON A CIRCULATION PATH TO AID PERSONS WITH VISUAL IMPAIRMENTS

CURB LINE - A LINE AT THE FACE OF TH CURB THAT MARKS THE TRANSITION BETWEEN THE SIDEWALK AND THE GUTTER OR ROADWAY

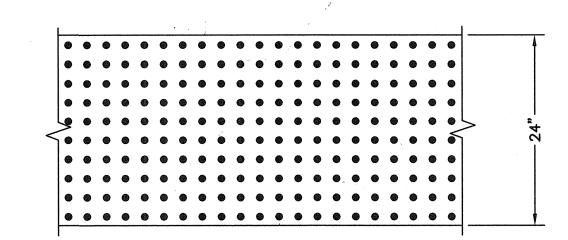
## LOCATION:

- 1. DETECTABLE WARNING SURFACES SHALL BE PROVIDED WHERE A CURB RAMP OR LANDING CONNECTS TO A CROSSWALK AND OR PEDESTRIAN ROUTE CROSSING A ROADWAY.
- 2. DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6" (150 MM) MINIMUM AND 8" (205 MM) MAXIMUM FROM THE CURB LINE.
- 3. MEDIAN AND REFUGEISLANDS SHALL HAVE DETECTABLE WARNINGS. DETECTABLE WARNINGS AT CUT THROUGH ISLAND SHALL BE SEPERATED BY A 24" (610 MM) MINIMUM LENGTH OF WALKWAY WITHOUT WARNINGS

EXCEPTION: DETECTABLE WARNINGS SHALL NOT BE REQUIRED ON CUT THROUGH ISLANDS WHERE THE CROSSINGS ARE CONTROLLED BY SIGNALS AND ARE TIMED FOR FULL CROSSING ON MEDIANS LESS THEN 7' WIDE

### NOTES:

- DETAILS SPECIFIED ON THIS PLAN APPLY TO ALL CONSTRUCTION OR RECONSTRUCTION OF STREETS, CURBS, OR SIDEWALKS BY ALL PUBLIC AGENCIES AND BY ALL PRIVATE ORGANIZATIONS CONSTRUCTING FACILITIES FOR PUBLIC USE.
- 2. SIDEWALK RAMPS ARE TO BE LOCATED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 3. THE TOP OF THE JOINT FILLER FOR ALL RAMP TYPES SHALL BE FLUSH WITH THE ADJACENT CONCRETE.
- 4. ALL PRODUCTS USED FOR THE DETECTABLE WARNING SURFACES SHALL BE ON THE DEPARTMENT'S APPROVED PRODUCT LIST.
- 5. PRODUCTS SHALL BE CAST-IN-TACT AND RED IN COLOR.



# NEW CONSTRUCTION - GENERAL NOTES:

- 1.1 THESE DRAWINGS PROVIDE GUIDANCE FOR COMPLIANCE WITH THE CURRENT AMERICANS WITH DISABILITIES ACT (ADA) AND STATE CODE. THESE STANDARDS SHALL APPLY TO ALL NEW AND ALTERED SIDEWALKS.
- 2.1 ANY DESIGN DEVIATION FROM THESE STANDARDS SHALL BE APPROVED BY THE NMDOT ADA COMPLIANCE COMMITTEE.
- 3.1 SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT, SIDEWALK AND CURB RAMP SURFACES SHALL PROVIDE CONSISTENT SLOPES WITHIN EACH SECTION.
- 4.1 ALL BROOM FINISHES SHALL BE PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
- 5.1 A VERTICAL CHANGE OF ¼ INCH (9mm) OR LESS IS ALLOWED. IF BETWEEN ¼ INCH AND ½ INCH (6mm AND 13mm), THEN IT NEEDS TO BE BEVELED 2:1. CHANGES GREATER THAN ½ INCH SHALL BE RAMPED.
- 6.1 OPENING OR CRACKS IN SIDEWALK SURFACES SHALL NOT EXCEED ½ INCH (13)mm. ELONGATED OPENING SHOULD BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR OR DIAGONAL TO THE DOMINANT DIRECTION OF TRAVEL.

# **SIDEWALKS**

- 7.1 SIDEWALKS, CURB AND GUTTER CONSTRUCTION SHALL BE N ACCORDANCE WITH SERIAL BSCG-001. (SWCG-001).
- 8.1 THE LEAST POSSIBLE SLOPES SHALL BE USED FOR SIDEWALKS, SIDEWALK RUNNING SLOPE SHALL NOT EXCEED 5% (20:1). AT LOCATIONS WHERE THE RIGHT-OF-WAY IS RESTRICTIVE, THE SIDEWALK RUNNING SLOPE MAY FOLLOW THE ROAD PROFILE.
- 9.1 SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% (50:1).
- 10.1 SIDEWALKS SHALL HAVE A MINIMUM WIDTH OF 60", EXCLUDING THE CURB. EXCEPTION: A 36" WIDE SIDEWALK MAY BE USED WHERE THE RIGHT-OF-WAY IS RESTRICTED, WHERE THE SIDEWALK IS LESS THAN 60" WIDE. A PASSING SPACE SHALL BE PROVIDED EVERY 20 LINEAR FEET, WHEREVER FEASIBLE. PASSING SPACES SHALL BE A MINIMUM OF 60"X60" WITH 45 DEGREE TRANSITION TAPERS, 5% (20:1) MAXIMUM RUNNING SLOPES, AND 2% (50:1) MAXIMUM CROSS SLOPES.
- 11.1 ANY SIGN POSTS, UTILITY POLES, FIRE HYDRANTS, TRAFFIC SIGNAL STANDARDS, LIGHT POLES, ETC. IN THE SIDEWALK SHALL NOT REDUCE THE CLEAR WIDTH TO LESS THAN 36", PER COA STD 2431.

# CURB RAMPS

- THE LEAST POSSIBLE CURB RAMP SLOPE SHALL BE USED, FOR COMPLIANCE WITH NMDOT PEDESTRIAN ACCESS DETAILS, CURB RAMP RUNNING SLOPE SHALL NOT EXCEED 6.7% (15:1), WHERE EXISTING TERRAIN IS STEEP. CURB RAMPS NEED NOT EXCEED 15 FEET IN LENGTH.
- 13.1 PROVIDE A FLUSH TRANSITION BETWEEN RAMPS, SIDEWALKS, GUTTER, AND EDGE OF PAVEMENT, FREE OF DRAINAGE LIP. ABRUPT GRADE CHANGES, DROP-OFFS., OR ANY SURFACE IRREGULARITIES. A 5% (20:1) OR FLATTER TRANSITION TAPER SHALL BE PROVIDED FROM THE STREET TO THE GUTTER FOR CURB RAMP LOCATION (THIS MAY REQUIRE SPECIAL TREATMENT OF THE EDGE OF O.G.F.C.) WHEN DIAGONAL (NOT IN LINE WITH CROSSWALKS) RAMPS ARE NECESSARY. A 2% (50:1) TRANSITION OR "LOWER LANDING" SHALL BE PROVIDED. THE GUTTER RUNNING SLOPE (FLOW LINE) SHALL NOT EXCEED 2% MEASURED ALONG THE BOTTOM OF THE RAMP.

- 14.1 CURB RAMPS SHALL BE LOCATED TO PROVIDE THE MOST DIRECT ROUTE OF TRAVEL ACROSS THE TRAFFIC LANES.
- 15.1 TWO DIRECTIONAL (IN LINE WITH TH CROSSWALKS) RAMPS PER CORNER ARE USED IN ORDER TO PROVIDE SHORT AND DIRECT CROSSINGS FOR THE USER.
- 16.1 SIGN POSTS, UTILITY POLES, FIRE HYDRANTS, TRAFFIC SIGNAL STANDARDS, IN THE CURB RAMP INCLUDING SIDE FLARES AND LANDINGS.
- 17.1 IN ORDER TO BETTER ACCOMMODATE CONDITIONS IN THE FIELD, THE CONTRACTOR SHALL OBTAIN FINAL APPROVAL OF CURB RAMP LOCATION FROM THE PROJECT MANAGER AND THE DISTRICT TRAFFIC ENGINEER. WHEN NECESSITATED BY EXISTING PHYSICAL CONDITIONS, ALTERNATE CURB RAMPS MUST BE SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL BY THE DISTRICT TRAFFIC ENGINEER.

# LANDINGS SHALL

- LANDING SHALL BE A MINIMUM OF 60"X 60". SLOPES SHALL NOT EXCEED 2% (50:1) IN ALL DIRECTIONS.
- 9.1 ACCESSIBLE PEDESTRIAN CROSSING SHALL BE WITHIN THE MARKED CROSSWALK.

# DETECTABLE WARNINGS

- 0.1 DETECTABLE WARNINGS ARE REQUIRED AT ALL STREET INTERSECTIONS, SIGNALIZED DRIVEWAYS, COMMERCIAL DRIVEWAYS 30' WIDE OR GREATER, AND MARKED MID-BLOCK CROSSWALKS.
- ALTERATIONS TO EXISTING FACILITIES GENERAL NOTES: ADDITIONS OR ALTERATIONS TO ANY FACILITY SHALL CONFORM TO THE REQUIREMENTS FO THE NEW CONSTRUCTION STANDARDS WITHIN THE NMDOT PEDESTRIAN ACCESS DETAILS. ADDITIONS OR ALTERATIONS SHALL NOT BE MADE TO AN EXISTING FACILITY WITH WILL CAUSE THE EXISTING FACILITY TO BE IN VIOLATION OF ANY PROVISION OF THE NMDOT PEDESTRIAN ACCESS DETAILS. WHERE IT IS TECHNICALLY INFEASIBLE TO COMPLY WITH NEW CONSTRUCTION STANDARDS FO THE NMDOT PEDESTRIAN ACCESS DETAILS THE FOLLOWING OPTIONS MAY BE USED:
- 21.1 WHERE IT IS NOT FEASIBLE TO INSTALL TWO CURB RAMPS PER CORNER. A SINGLE DIAGONAL CURB RAMP MAY BE USED AFTER RECEIVING APPROVAL FORM THE NMDOT ADA COMPLIANCE COMMITTEE.
- 22.1 WHERE RIGHT-OF-WAY IS RESTRICTED. CURB RAMP LANDING MAY BE 4' X 4'.
- DEFINITION OF TECHNICALLY INFEASIBLE: IN THE CONTEXT OF THESE DRAWINGS. WITHIN A ROADWAY OR IMMEDIATE ROADSIDE ENVIRONMENT. MEANS WITH RESPECT TO AN ALTERATION OF A FACILITY, THAT IT HAS LITTLE LIKELIHOOD OR BEING ACCOMPLISHED BECAUSE EXISTING SITE CONDITIONS WOULD REQUIRE SUBSTANTIALLY ALTERING EXISTING DRAINAGE PATTERNS: TRAFFIC FLOW OR SAFETY: OR BECAUSE OTHER EXISTING PHYSICAL INFRASTRUCTURE OR SITE CONSTRAINTS PROHIBIT MODIFICATION OR ADDITION OF ELEMENTS, SPACE OR FEATURES WITH ARE IN FULL AND STRICT COMPLIANCE THE MINIMUM REQUIREMENTS FOR NEW CONSTRUCTION AND WHICH ARE NECESSARY TO PROVIDE ACCESSIBILITY.
- 24.1 WHERE RIGHT-OF-WAY IS RESTRICTED. CURB RAMP SLOPES MAY BE 12:1.

TRUNCATED DOME NOTES

6. ADA FABRICATORS

CONCRETE SYSTEMS INC., 884-1134. ADA FABRICATORS PHONE NUMBER IS (978) 262-9900.

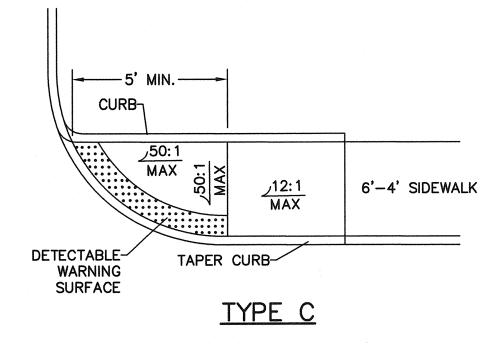
7. ARMOR-TILE

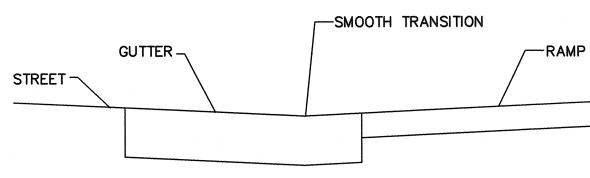
BOTH CAST-IN-PLACE AND RETROFIT PRODUCTS. LOCAL VENDOR IS WHITE CAP CONSTRUCTION SUPPLY, 872-2244. ARMOR-TILE'S PHONE NUMBER IS (800)682-2525.

8. WAUSAU TILE

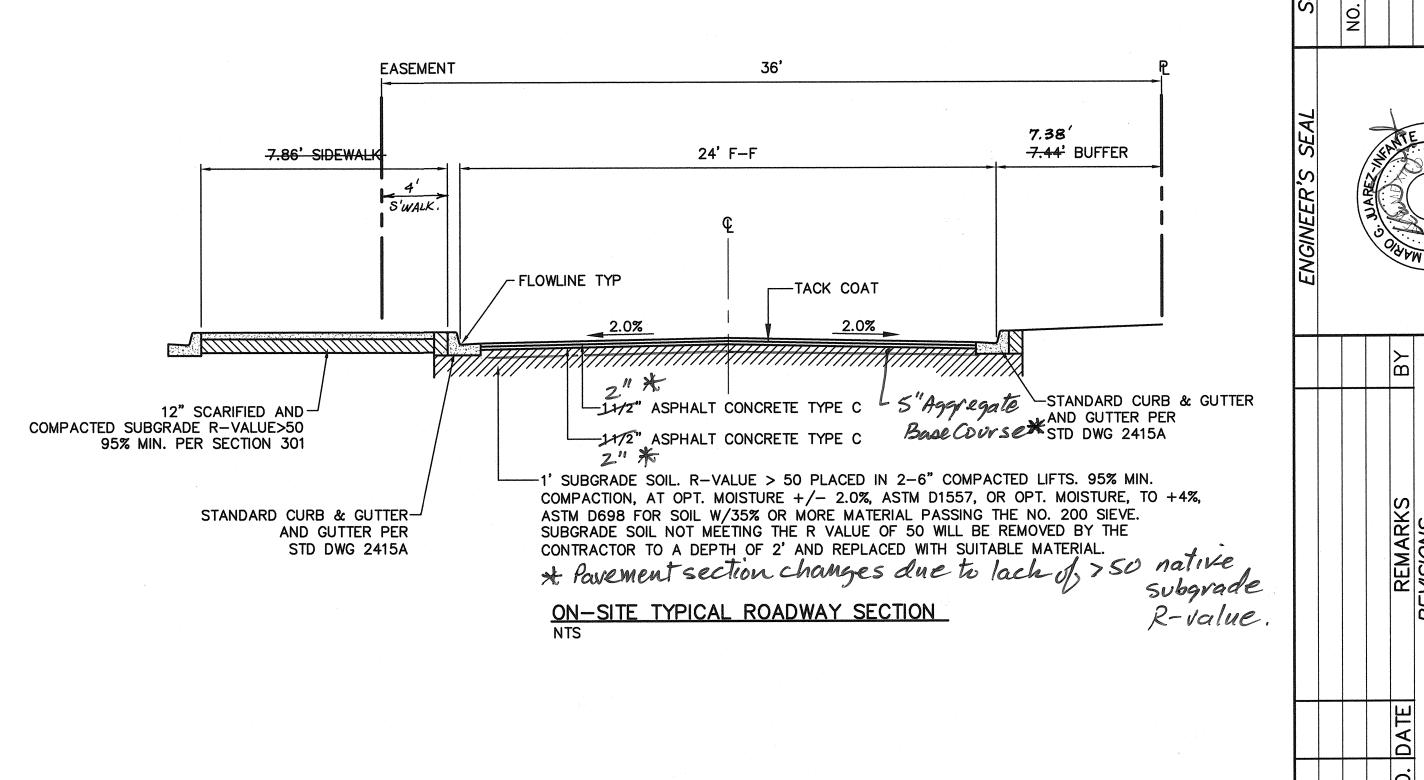
CAST-IN-PLACE ONLY. IF YOU CHOOSE TO USE THIS PRODUCT, YOU WILL HAVE TO SAW CUT A 4'X2' HOLE IN EVERY EXISTING ADA RAMP. USE TWO 2'X2' PAVERS PER RAMP. USE COLOR NUMBER U4008. (800)388-8728.

9. SUBMIT SPEC'S. TO COA CONSTRUCTION ENGINEER FOR EVALUATION PRIOR TO CONSTRUCTION.

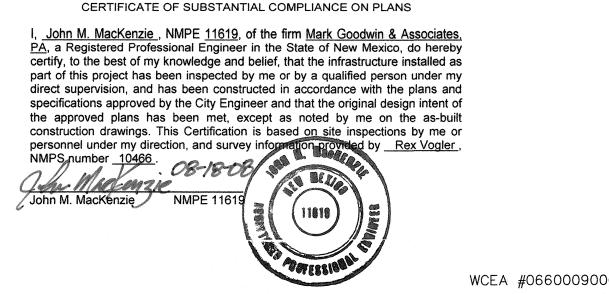






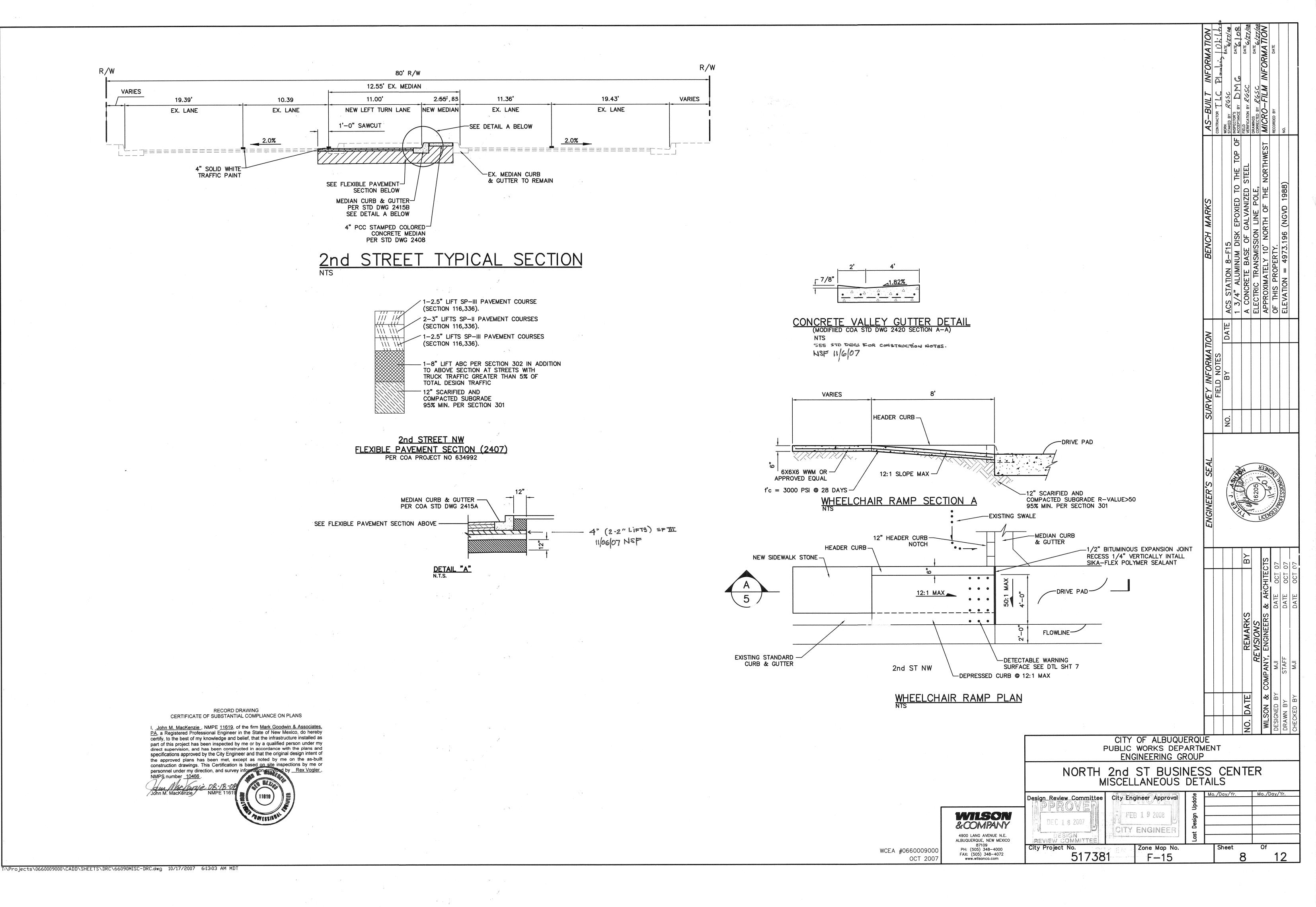


OCT 200



RECORD DRAWING

CITY OF ALBUQUERQUE WILSON PUBLIC WORKS DEPARTMENT &COMPANY ENGINEERING GROUP 4900 LANG AVENUE N.E. ALBUQUERQUE, NEW MEXICO NORTH 2nd ST BUSINESS CENTER 87109 PH: (505) 348-4000 TYPICAL SECTION & DETAILS FAX: (505) 348-4072 www.wilsonco.com Design Review Committee City Engineer Approval EB 1 9 2008 DEC 18 2007 Y ENGINEE City Project No. Zone Map No. 517381



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WILSON &COMPANY

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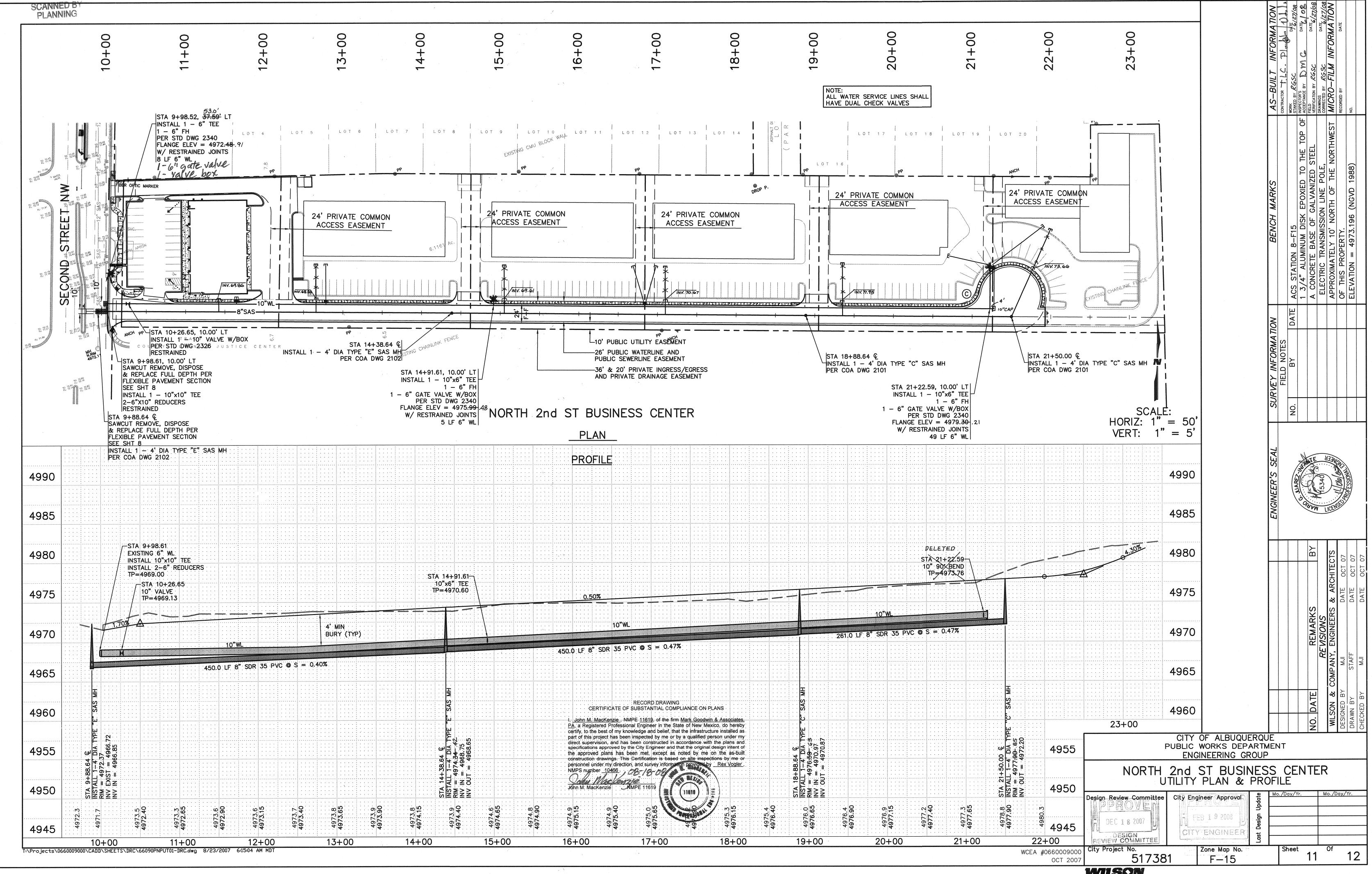
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City Engineer Approval - DESIGN - OMMITTE 22+00 City Project No. WCEA #0660009000 10 OCT 2007 WILSON &COMPANY

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