

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Interim Director



Mayor Timothy M. Keller

September 20, 2021

James E. Lopez, P.E.  
Wilson & Company  
440I Masthead St. NE  
Albuquerque, NM 87113

**RE: Barelas Park Improvements  
Grading & Drainage Plan  
Engineer's Stamp Date: 09/14/21  
Hydrology File: K14D047**

Dear Mr. Lopez:

Based upon the information provided in your submittal received 08/19/2021, the Grading & Drainage Plan **is not** approved for Grading Permit and Paving Permit. The following comments need to be addressed for approval of the above referenced project:

Sheet C-102

1. Please update the reference to the Development Process Manual (DPM). The current DPM (signed 06/08/20) for the procedure for 40 acre and smaller basins is outlined in Article 6-2(a). Please also correct any changes in the calculations. The  $Q_{100}$  under the new DPM has been found to be less than the old DPM.
2. Please follow the DPM (signed 06/08/20) Article 6-12 Stormwater Quality and Low-Impact Development for the sizing calculations and provide the required calculations. To calculate the required SWQV, multiply only the proposed impervious area (buildings, sidewalks, and paving) draining to the BMP by 0.26 inches for redevelopment sites which this project falls under.
3. Please either provide a reference to the weir equations or provide the weir calculations, per DPM Article 6-16(A) for the curb cuts. A coefficient of 2.7 is typically used for the weir equation  $Q = CLH^{2/3}$ .
4. What would be helpful is showing the existing storm sewer and the proposed storm sewer on this overall map. I have highlighted the existing in red and the proposed in green. The existing I showed are from the City's GIS. There are some proposed lines that may need to be adjusted or abandoned if not going to be used anymore.

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Albuquerque

NM 87103

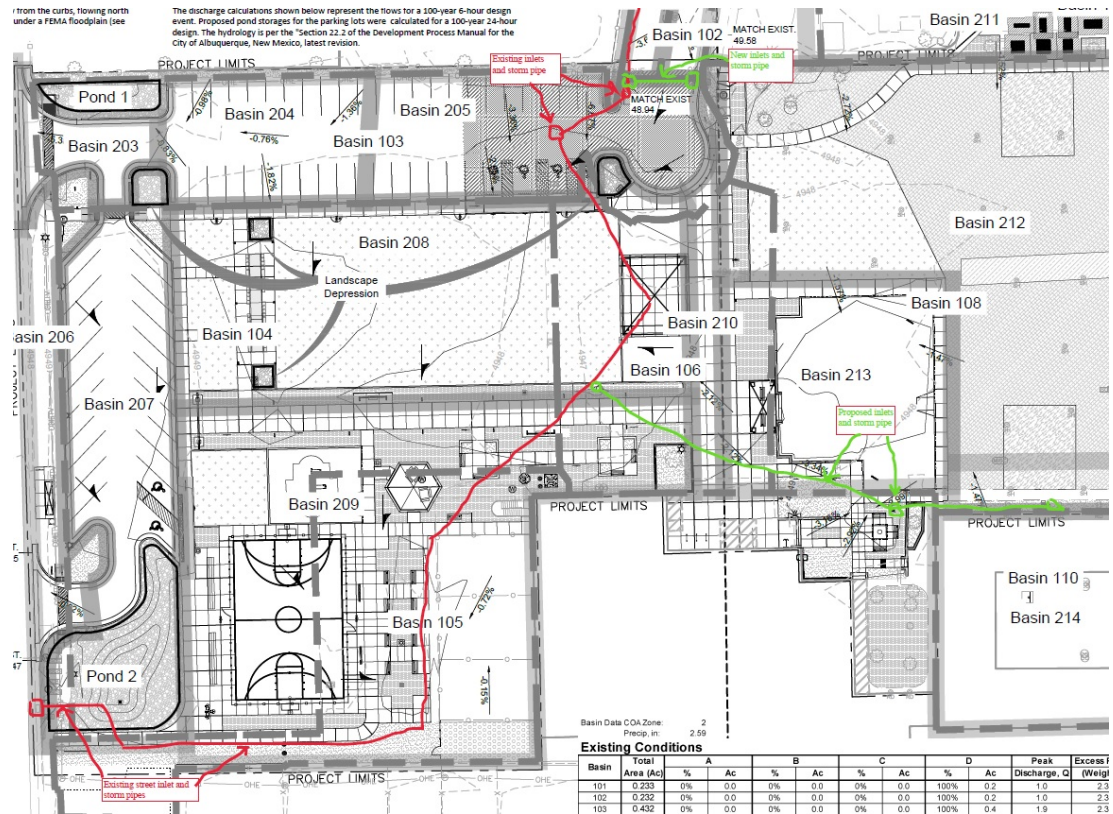
[www.cabq.gov](http://www.cabq.gov)

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- One thing that I was wondering that I am assuming is a shade structure at Basin 210. The existing parking lot appears to have been used as a ponding area with an inlet. Is this being removed?



## Sheet C-103

- What could be helpful is showing the existing storm sewer. This could be labeled either "field verified" or "not field verified".

# CITY OF ALBUQUERQUE

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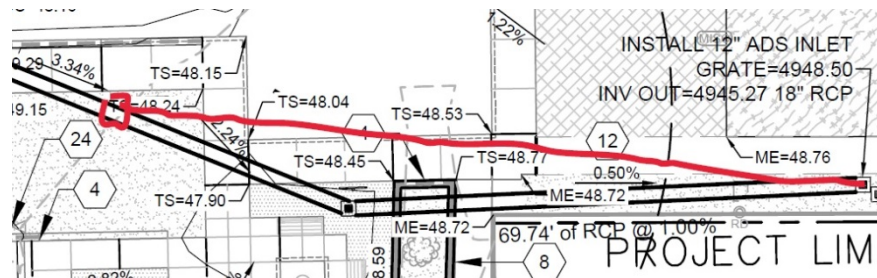


Mayor Timothy M. Keller

7. Pond 1 has two power poles in the middle of it. Is this pond actually a viable pond? Would the excavation of it cause the two power poles to be compromised? Please verify if this pond can be used. Also where is the pond outfall? Typically this is a sidewalk culvert at the elevation of the Stormwater Quality water surface elevation but there is no place to put a sidewalk culvert.
8. Pond 2's outfall will be the Beehive Grate. The grate elevation should be the same as the elevation of the Stormwater Quality water surface elevation for the pond.
9. Please add this note for all Stormwater Quality Ponds. "Pond side slopes need to be stabilized with Native Grass Seed with Aggregate Mulch or equal (Must satisfy the "Final Stabilization criteria" CGP 2.2.14.b.)".

## Sheet C-104

10. Instead of boring an 18-in RCP under the existing raised planter, wouldn't be better to just add another inlet and route the new pipe as shown? Something to think about.



As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, [jhughes@cabq.gov](mailto:jhughes@cabq.gov), 924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

Sincerely,

*Renée C. Brissette*

Renée C. Brissette, P.E. CFM  
Senior Engineer, Hydrology  
Planning Department



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** Barelas Park Improvements **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** MAP 40 TR 127 (AKA TR IN NW 1/4 SW 1/4 SEC 20 T10N R3E ADJ TO BLKS 1 & 2 RIO GRANDE PARK  
ADD'N) CONT 2.5742  
**City Address:** 801 Barelas St SW, Albuquerque, NM 87102

**Applicant:** Wilson & Compnay, Inc., Engineers & Architects **Contact:** James Lopez, PE  
**Address:** 4401 Masthead St NE Albuquerque, NM 87109  
**Phone#:** (505)-730-8013 **Fax#:** (505)-348-4055 **E-mail:** Jelopez@wilsonco.com

**Other Contact:** \_\_\_\_\_ **Contact:** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**TYPE OF DEVELOPMENT:** \_\_\_\_\_ **PLAT (# of lots)** \_\_\_\_\_ **RESIDENCE** \_\_\_\_\_ **DRB SITE** \_\_\_\_\_ **ADMIN SITE** \_\_\_\_\_

**IS THIS A RESUBMITTAL?** \_\_\_\_\_ **Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**DEPARTMENT** \_\_\_\_\_ **TRANSPORTATION** \_\_\_\_\_ **HYDROLOGY/DRAINAGE** \_\_\_\_\_

Check all that Apply:

### TYPE OF SUBMITTAL:

- \_\_\_\_\_ ENGINEER/ARCHITECT CERTIFICATION
- \_\_\_\_\_ PAD CERTIFICATION
- \_\_\_\_\_ CONCEPTUAL G & D PLAN
- \_\_\_\_\_ GRADING PLAN
- \_\_\_\_\_ DRAINAGE REPORT
- \_\_\_\_\_ DRAINAGE MASTER PLAN
- \_\_\_\_\_ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- \_\_\_\_\_ ELEVATION CERTIFICATE
- \_\_\_\_\_ CLOMR/LOMR
- \_\_\_\_\_ TRAFFIC CIRCULATION LAYOUT (TCL)
- \_\_\_\_\_ TRAFFIC IMPACT STUDY (TIS)
- \_\_\_\_\_ STREET LIGHT LAYOUT
- \_\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_
- \_\_\_\_\_ PRE-DESIGN MEETING?

### TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- \_\_\_\_\_ BUILDING PERMIT APPROVAL
- \_\_\_\_\_ CERTIFICATE OF OCCUPANCY
- \_\_\_\_\_ PRELIMINARY PLAT APPROVAL
- \_\_\_\_\_ SITE PLAN FOR SUB'D APPROVAL
- \_\_\_\_\_ SITE PLAN FOR BLDG. PERMIT APPROVAL
- \_\_\_\_\_ FINAL PLAT APPROVAL
- \_\_\_\_\_ SIA/ RELEASE OF FINANCIAL GUARANTEE
- \_\_\_\_\_ FOUNDATION PERMIT APPROVAL
- \_\_\_\_\_ GRADING PERMIT APPROVAL
- \_\_\_\_\_ SO-19 APPROVAL
- \_\_\_\_\_ PAVING PERMIT APPROVAL
- \_\_\_\_\_ GRADING/ PAD CERTIFICATION
- \_\_\_\_\_ WORK ORDER APPROVAL
- \_\_\_\_\_ CLOMR/LOMR
- \_\_\_\_\_ FLOODPLAIN DEVELOPMENT PERMIT
- \_\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_

**DATE SUBMITTED:** 8/18/21 **By:** James Lopez, PE

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_



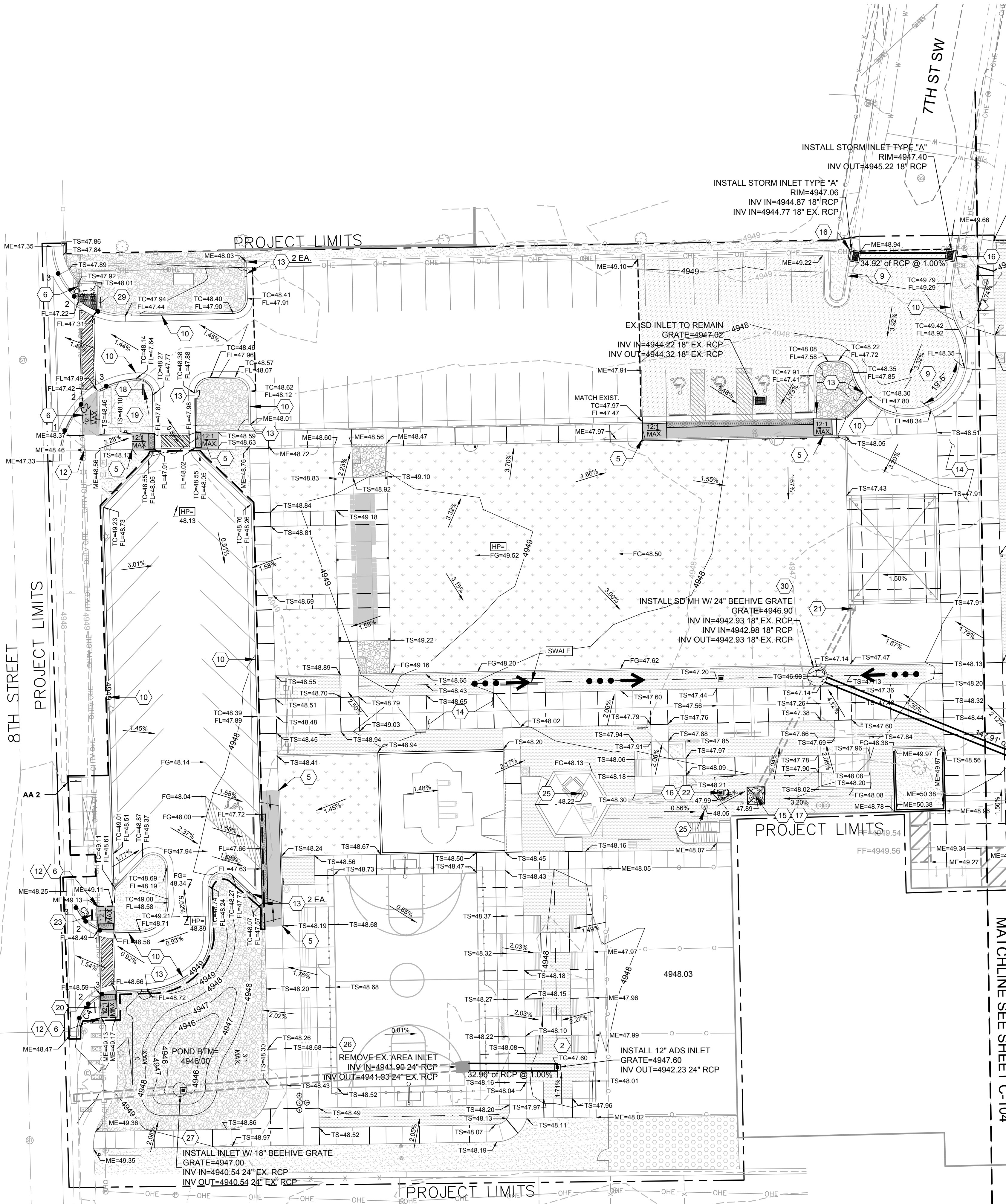
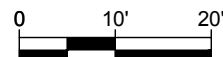




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A1 GRADING PLAN

SCALE: 1" = 20'



| Curve Table |        |        |       |                 |              |
|-------------|--------|--------|-------|-----------------|--------------|
| Curve #     | Length | Radius | Delta | Chord Direction | Chord Length |
| C1          | 39.23  | 25.00  | 89.91 | S46° 27' 01"E   | 35.33        |
| C2          | 43.42  | 28.20  | 88.24 | S42° 58' 40"W   | 39.26        |
| C3          | 23.56  | 15.00  | 90.00 | S46° 41' 24"E   | 21.21        |
| C4          | 23.58  | 15.00  | 90.09 | S43° 16' 03"W   | 21.23        |

CURVE DATA

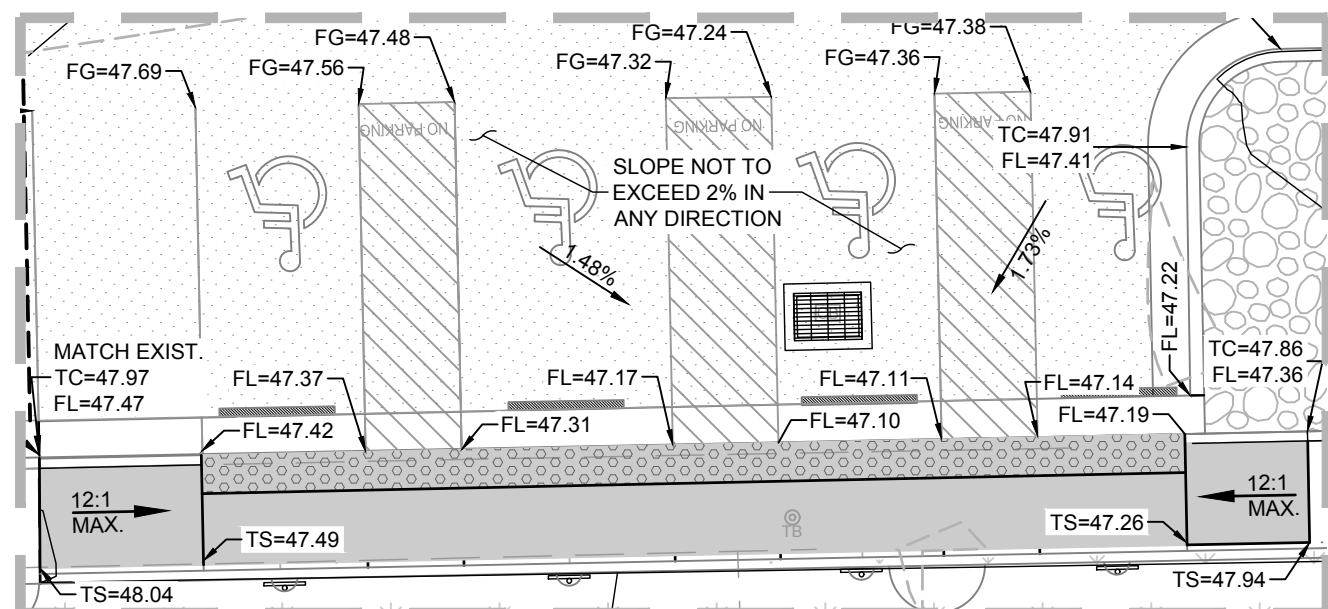
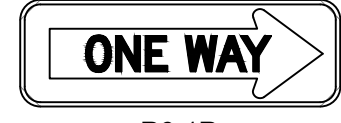
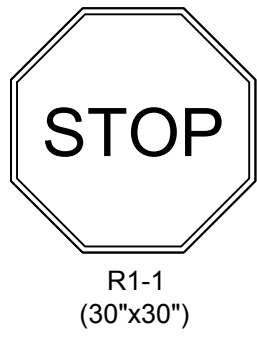
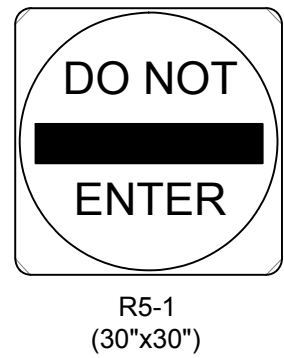
| C1 | TC      | FL      |
|----|---------|---------|
| 1  | 4947.98 | 4947.31 |
| 2  | 4947.88 | 4947.21 |
| 3  | 4947.85 | 4947.18 |

| C2 | TC      | FL      |
|----|---------|---------|
| 1  | 4948.06 | 4947.39 |
| 2  | 4948.09 | 4947.42 |
| 3  | 4948.20 | 4947.53 |

| C3 | TC      | FL      |
|----|---------|---------|
| 1  | 4949.17 | 4948.50 |
| 2  | 4949.10 | 4948.43 |
| 3  | 4949.03 | 4948.36 |

| C4 | TC      | FL      |
|----|---------|---------|
| 1  | 4949.21 | 4948.54 |
| 2  | 4949.24 | 4948.57 |
| 3  | 4949.27 | 4948.60 |

SIGN FACE DETAILS



KEYNOTES

- HISTORIC WALL ON SITE. PROTECT IN PLACE. ANY DAMAGE SHALL BE REPAIRED OR REPLACED IN KIND BY THE CONTRACTOR. REFER TO DEMOLITION PLAN.
- CONSTRUCT 12" ADVANCED DRAINAGE SYSTEMS INLET. SEE DETAIL E1 SHEET C-105.
- STAIRS.
- RETAINING WALL, SEE LANDSCAPE PLANS.
- ADA RAMP, SEE LANDSCAPE PLANS.
- UNI-DIRECTIONAL ADA RAMP, SEE LANDSCAPE PLANS.
- SIDEWALK CULVERT, SEE LANDSCAPE PLANS.
- RAISED PLANTER TO REMAIN. REFER TO DEMOLITION PLAN FOR PARTIAL REMOVAL.
- MOUNTABLE CURB, SEE LANDSCAPE PLANS.
- MEDIAN CURB & GUTTER, SEE LANDSCAPE PLANS.
- CONCRETE SIDEWALK, SEE LANDSCAPE PLANS.
- MATCH EXISTING SIDEWALK. SAWCUT TO NEAREST JOINT.
- CONSTRUCT 2-FOOT CURB OPENING.
- REFER TO LANDSCAPE PLANS FOR JOINT PATTERNS & CONCRETE COLORS.
- REPLACE EXISTING STORM DRAIN MANHOLE COVER & LID WITH SLOTTED GRATE.
- CONSTRUCT STORM INLET TYPE "A" PER COA STD DWG #2201.
- CONSTRUCT 6' x 6' CONCRETE COLLAR.
- R6-1L ("ONE WAY") SIGN.
- R6-1R ("ONE WAY") SIGN.
- R5-1 ("DO NOT ENTER") SIGN.
- INSTALL 51" BEND W / CONCRETE COLLARS AT CONNECTIONS. CONTRACTOR TO VERIFY ANGLE OF BEND.
- ADJUST EXISTING STORM DRAIN MANHOLE TO GRADE.
- R5-1 ("DO NOT ENTER") SIGN & R1-1 ("STOP") SIGN ON COMMON POLE.
- ADJUST EXISTING WATER VALVE TO GRADE.
- ADJUST EXISTING WATER METER TO GRADE.
- REMOVE EXISTING INLET. ATTACH EXISTING PIPE & NEW PIPE WITH CONCRETE COLLAR.
- INSTALL INLET W / 18" BEEHIVE GRATE.
- CONTRACTOR TO VERIFY DEPTH OF EXISTING WALL FOOTING BEFORE BORING UNDER WALL. SEE TREE PROTECTION NOTES ON SHEET LD102.
- R1-1 ("STOP") SIGN.
- INSTALL STORM DRAIN MANHOLE TYPE "C" W / 24" BEEHIVE GRATE PER COA STD DWG #2205.

GENERAL NOTES

- REFER TO LANDSCAPE PLANS FOR ALL HARDSCAPE.
- REFER TO LANDSCAPE PLAN LS101 FOR ADDITIVE ALTERNATE DESCRIPTIONS.

LEGEND

|     |                          |
|-----|--------------------------|
| --- | EXISTING ROW BOUNDARY    |
| --- | PROPOSED MAJOR CONTOUR   |
| --- | PROPOSED MINOR CONTOUR   |
| --- | EXISTING MAJOR CONTOUR   |
| --- | EXISTING MINOR CONTOUR   |
| --- | RETAINING WALL           |
| --- | SAWCUT                   |
| FG  | FINISHED GRADE ELEVATION |
| FL  | FLOWLINE ELEVATION       |
| TC  | TOP OF CURB ELEVATION    |
| TW  | TOP OF WALL ELEVATION    |
| ME  | MATCH EXISTING ELEVATION |
| TS  | TOP OF SIDEWALK / SLAB   |
| TOS | TOP OF SURFACING         |
| TR  | TOP OF STAIRS RISER      |

**WILSON & COMPANY**  
4401 MASTHEAD ST. NE. SUITE 150  
ALBUQUERQUE, NM 87109  
PHONE: 505-348-4000  
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mrwmia.com 505 268 2266

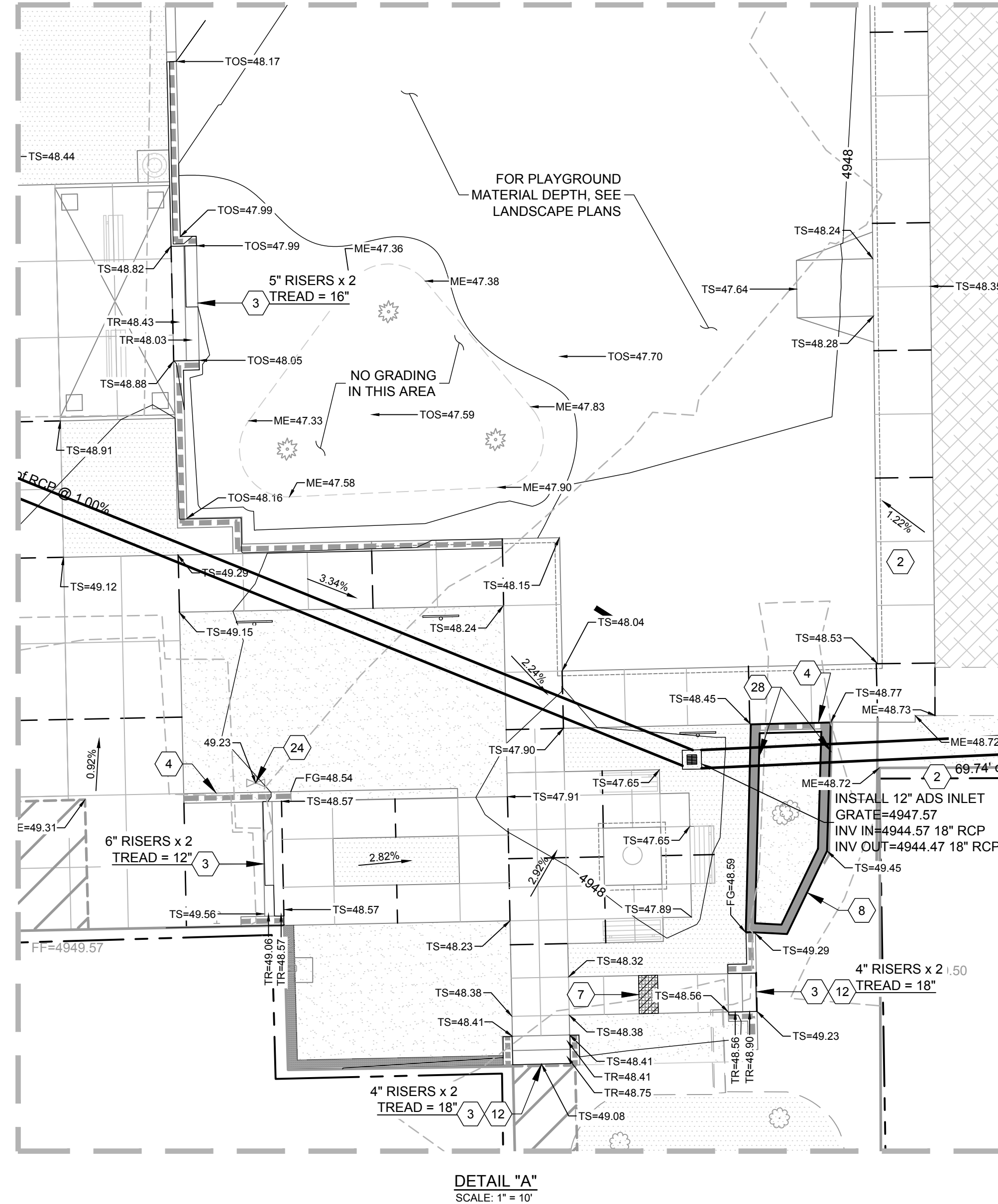
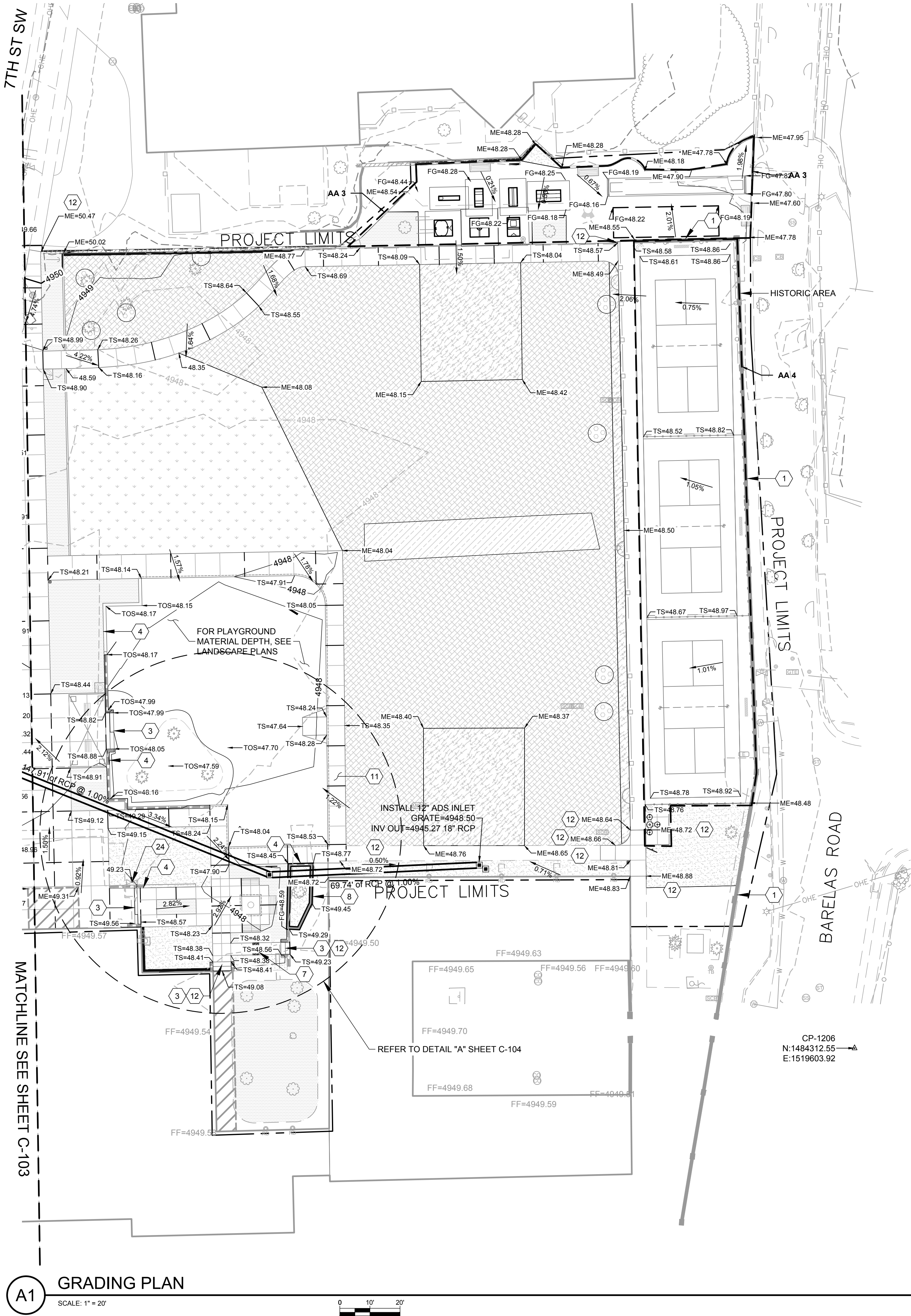
CITY OF ALBUQUERQUE  
STRATEGIC PLANNING AND DESIGN  
PARKS AND RECREATION DEPARTMENT

BARELAS PARK RENOVATION  
GRADING PLAN

|                         |                        |             |             |
|-------------------------|------------------------|-------------|-------------|
| Design Review Committee | City Engineer Approval | Mo./Day/Yr. | Mo./Day/Yr. |
|                         |                        |             |             |
|                         |                        |             |             |
|                         |                        |             |             |
| City Project No.        | Zone Map No.           | Sheet       |             |
| 615792                  | K-13 & K-14            | C-103       |             |



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- ### KEYNOTES
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- ### GENERAL NOTES
- REFER TO LANDSCAPE PLANS FOR ALL HARDSCAPE.
  - REFER TO LANDSCAPE PLAN LS101 FOR ADDITIVE ALTERNATE DESCRIPTIONS.

### LEGEND

|     |                          |
|-----|--------------------------|
| --- | EXISTING ROW BOUNDARY    |
| --- | PROPOSED MAJOR CONTOUR   |
| --- | PROPOSED MINOR CONTOUR   |
| --- | EXISTING MAJOR CONTOUR   |
| --- | EXISTING MINOR CONTOUR   |
| --- | RETAINING WALL           |
| --- | SAWCUT                   |
| FG  | FINISHED GRADE ELEVATION |
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| TC  | TOP OF CURB ELEVATION    |
| TW  | TOP OF WALL ELEVATION    |
| ME  | MATCH EXISTING ELEVATION |
| TS  | TOP OF SIDEWALK / SLAB   |
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| TR  | TOP OF STAIRS RISER      |

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### BARELAS PARK RENOVATION GRADING PLAN

|                         |                        |                    |             |             |
|-------------------------|------------------------|--------------------|-------------|-------------|
| Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr. |
|                         |                        |                    |             |             |
| City Project No.        | Zone Map No.           | Sheet              |             |             |
| 615792                  | K-13 & K-14            | C-104              |             |             |

| ENGINEER'S SEAL   |  | SURVEY INFORMATION |    | BENCH MARKS                  |  | AS-BUILT INFORMATION      |  |
|---|--|--------------------|----|------------------------------|--|---------------------------|--|
| <div><div><div>JAMES E. LOPEZ</div><div>NEW MEXICO</div><div>9/14/21</div><div>REGISTERED PROFESSIONAL ENGINEER</div></div></div> |  | FIELD NOTES        |    |                              |  | CONTRACTOR                |  |
|   |  | NO.                | BY | DATE                         |  | WORKING BY                |  |
|   |  |                    |    | DATE                         |  | INSPECTOR'S ACCEPTANCE BY |  |
|   |  |                    |    | DATE                         |  | FIELD LOCATION BY         |  |
|   |  |                    |    | E=1519603.92                 |  | DRAWINGS CORRECTED BY     |  |
|   |  |                    |    | N=484312.55                  |  | MICRO-FILM INFORMATION    |  |
|   |  |                    |    | GRID TO GROUND: 1.0003173492 |  | RECORDED BY               |  |
|   |  |                    |    | ELEV=4948.97 (NAD 83)        |  | DATE                      |  |
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