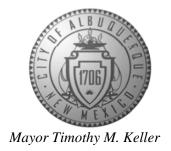
CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



October 3, 2019

Vincent Carrica, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

RE: BEK Distribution Facility
601 Gallatin Place NW
Grading and Drainage Plan & Drainage Report
Engineer's Stamp Date: 09/06/19
Hydrology File: J10D002G1

Dear Mr. Carrica:

Based upon the information provided in your resubmittal received 09/06/2019, the Grading & Drainage Plan and Drainage Report are approved for Building Permit, Grading Permit, and for action by the DRB on Site Plan for Building Permit.

PO Box 1293

Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

Albuquerque

NM 87103

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 (Dough Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

www.cabq.gov

Also as a reminder, please provide a Drainage Covenant for the proposed retention ponds per Chapter 17 of the DPM prior to Permanent Release of Occupancy. Please submit this on the 4th floor of Plaza de Sol. A \$25 fee will be required.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

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

Renée C. Brissette



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: BEK Distribution Facility DRB#: PR-2018-001361		
Legal Description: LT 1-A AD LOT 8-A UNSE		
City Address: 601 GALLATIN PL NW ALBUQUE		
Applicant: TIERRA WEST LLC		Contact: VINCE CARRICA
Address: 5571 MIDWAY PARK PLACE NE ALB	SUQUERQUE NM 87109	· · · · · · · · · · · · · · · · · · ·
Phone#: 505-858-3100		E-mail: vcarrica@tierrawestllc.com
Other Contact:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
TYPE OF DEVELOPMENT: PLAT (# of lots) RESIDEN	CE X DRB SITE ADMIN SITE
IS THIS A RESUBMITTAL? X Yes	No	
DEPARTMENT TRANSPORTATION	X HYDROLOGY/DF	RAINAGE
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN X GRADING PLAN X DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT A ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING?	X BUI CEF PRE SIT! X SIT! X SIT! FIN X GRA SO- PAV GRA WO CLC	F APPROVAL/ACCEPTANCE SOUGHT: LDING PERMIT APPROVAL ETIFICATE OF OCCUPANCY CLIMINARY PLAT APPROVAL E PLAN FOR SUB'D APPROVAL E PLAN FOR BLDG. PERMIT APPROVAL AL PLAT APPROVAL AL PLAT APPROVAL ADING PERMIT APPROVAL ADING PERMIT APPROVAL ADING PERMIT APPROVAL ADING/PAD CERTIFICATION RK ORDER APPROVAL OMR/LOMR OODPLAIN DEVELOPMENT PERMIT
DATE SUBMITTED: 9/16/2019		HER (SPECIFY)
COA STAFF:	ELECTRONIC SUBMITTAL RE	CEIVED:



TIERRA WEST, LLC

September 16, 2019

Mr. Dana Peterson, P.E City of Albuquerque PO BOX 1293 Albuquerque, NM 87103

RE: BEK DISTRIBUTION FACILITY – 601 GALLATIN PL. NW D&D PLAN AND DRAINAGE REPORT ENGINEERS STAMP DATE 07/19/2019, HYDROLOGY FILE: FJ10D002G1

Dear Mr. Peterson:

Please find the following responses addressing grading and drainage comments listed below:

1. Some reconstruction of the existing Coca-Cola Pond will be required by this project.

 Provide written and signed permission for the adjoining property owner for work on their property. Some reconstruction of the sidewalk culvert and dam will likely be required

Response: See attached letter from Swire- Coca Cola granting permission to reconstruct their pond overflow structure. The existing capacity of the pond will be maintained as will the existing dam/ berm along the BEK west property line.

- b. Better survey information must be added to the G&D Plan including detailed survey of the dam, the headwall and pipe outfall, and the emergency overflow spillway. A detail of the emergency overflow spillway connection to the new sidewalk culvert must be provided
 - Response: Additional survey information was attained and included in the drawings showing the existing outfall culver and headwall, the existing overflow structure and the dam / berm(s). A detail of the existing and proposed revised overflow structure has been added to Sheet 203.
- c. The existing Dam may encroach on this site. A minimum 6' wide top of dam must be maintained. Section A-A on sheet C203 may need to be updated with the results of the revised survey and hopefully get the dam off of the BEK property and back onto the Coca-Cola property.
 - Response: The additional survey information attained shows the existing dam / berm with a minimum 10' berm, which is maintained under the proposed BEK improvements.
- Remove the word Conceptual from the sheet Title and the label NOT FOR CONSTRUCTION. Also identify how the future building pads will be graded to drain especially where future roof drains are planned to direct that drainage away from the adjacent public streets and into the ponds.

Response: The "Conceptual" and "Not for Construction" labels have been removed from the sheet title. Interim grading plans for Future building and parking areas were added to the set, see Sheets 203 & 205. The interim grading

will direct flows to the onsite retention ponds. The future pad areas and future parking fields will be stabilized under Phase one construction with gravel surfacing.

- 3. Key note 25 on the Site Plan calls for a 6" temporary header curb that is not shown on the G&D Plan. Please revise on or the other so they agree, and provide a copy of the revised Site Plan when resubmitting to hydrology. If the temporary curb is to remain please add details of the curb on the G&D Plan with spot elevation that show how the parking lot will drain thru the curb.
 Response: The 6" temporary header curb (per COA Std Details) is now called out on Sheet 205 of the grading plans to agree with what was approved on the Site Plan. The existing and future auto parking fields drain via surface flows generally from south to north. Curb cuts will be provided in the proposed temporary header curb as noted on Sheet 205 to allow the runoff from the first phase parking field to continue flowing north where it will be captured in a swale and enter a rundown into the north retention pond.
- 4. How will drainage get out of the sump in the C&G on the east side of the Staging area?
 Response: A 2ft curb cut and erosion pad were added to the proposed curb in the staging area will allow the drainage to continue east to the proposed swale and concrete rundown into the north retention pond, see Sheet C202.
- 5. Surface drainage in the future staging area and the future parking lot next to the pond appears to enter the pond in two places but only one has a rundown. Lined conveyance systems should be added to the plan to convey drainage from the paving proposed with this building permit through the future paving area and into the pond. Please revise the G&D Plan adding lined swales and typical sections through the future north parking area and into the north pond. Response: The G&D plan Sheets C201 & C202 were revised to reflect a single swale and concrete rundown into the north retention pond. All future parking and staging areas will be stabilized under interim conditions with gravel surfacing.
- 6. Please label the contours in the north east corner of the parking lot and verify that the spot elevations agree with the contours. If they are not 5141 and 5142 then please revise the grading to decisively contain the parking lot drainage and convey it into the north pond.
 Response: The noted contours (5141 & 5142) are now labeled and the parking lot drainage is conveyed into the north retention pond on Sheets C201 & C202.
- 7. The contours indicate erratic slopes varying from 1% to 10% with abrupt grade changes in the northwesterly 250' of the staging/parking lot. Please revise the grading.
 Response: The contours were corrected to reflect proposed, non-erratic slopes in the noted staging/parking lot on Sheets C201 & C202.
- 8. Additional right of way may be needed for the hammerhead turnaround at the west end of Fortuna Rd. Please coordinate with transportation and if additional ROW is required then show the right of way dedication on the G&D plan.

Response: Per approvals from DRB during Site Plan approval process, a public access easement was granted.

- 9. Please show the PNM easement adjacent to and on this tract in the west corner. Either revise the plan to eliminate the grading within the easement or provide written permission from PNM for grading inside of their easement. Response: The PNM easement in the west corner of the site, adjacent to Unser Blvd right of way is now shown on Sheet C203. The proposed grading does not encroach on the existing PNM easement.
- 10. The finish contours are missing between the retaining wall and the street in Los Volcanes Road. Please show proposed contours all of the way to the existing street to indicate the proposed grade of the sidewalk. Also please add a few typical sections showing the grade on both sides of the retaining wall, the new sidewalk, the ROW line, the fence, and the slope.

Response: The finish contours were added in the noted area on Sheet C203. Typical sections of this area are shown on Sheet C213, Section G.

11. HGL calculations are required for the storm drain in the north east corner of the site where failure of the storm drain could result in excessive storm water runoff to public streets. Also please add a profile and HGL calculations for the storm drain on the south and east side of the building.

Response: HGL profile and calculations were added to the plan Sheets C206, C210 & C211 and report for the storm drains in the northeast corner of the site and the southeast side of the building.

- 12. Please add the Book and Page (B 2019C P 0040) of the plat to note 1 on sheet C201. Response: The book and page number of the plat was added to Note 1 on Sheet C201.
- 13. The south pond must have a non-erosive spillway. Please add a build note and a detail on the G&D Plan. Please check the weir coefficient, 1.6 is for metric units, 2.7 is SI for broad crest, and 3.3 SI for sharp crest.
 Response: A concrete emergency overflow structure and detail were added to the south pond on Sheets C203 & C204. Calculation of broad crested weir is Q=1.6LH^3/2, where Q is in cfs, L is in ft and H is in feet.
- 14. Please revise the pond volume calculations to use the Conic approximation method (the volume of a frustum) = h/3 x [b1 + b2 + sqrt (b1 x b2)] where h is the height between the two areas and b1 and b2 are the areas of the contours. The equations presented in the report do not make any sense, but the volumes seem to have been calculated by the average end area method. The method used for volume calculations needs to be better documented in the report. Also please provide the excel file. Response: The pond volumes were recalculated using the conic approximation method as requested. The calculations are provided in the report. The provided ponding capacities are greater than the required 10-day volumes.
- 15. Please revise the Drainage Basin map to include a graphic scale, north arrow, flow arrows indicating the discharge point of each basin and roof drainage patterns. The paper copy must be scalable.

Response: The drainage basin map (Sheet 1) was revised with a graphic scale, north arrow and flow arrows and is to scale.

- 16. It appears that curb opening details and design calculations may be missing. Please identify how the drainage from Basins 8 and 9 gets into Inlet #3. Also please identify how the drainage from basin 24 gets into the south pond by including details on the G&D Plan and calculations in the report. The engineering design analysis must demonstrate that the peak 100 year flow rates are intercepted by onsite drainage structures and prevented from entering the public right of way.
 Response: Design calculations have been added to the G&D report. The runoff from the building areas in Basins 8 & 9 are proposed to at the roof drains and conveyed to Inlet #3 in a storm drain. Profiles for the storm drains are now included on Sheets C206 & C210. Under interim conditions, the future building area in Basin 8 will sheet flow to Inlet #3 as is shown on interim grading Sheet C205.
- 17. Please revise the grading of the south pond so a flood wall is not expected to hold back drainage

Response: The grading of the south pond was revised to eliminate the proposed flood / retain wall, eliminating the condition where a flood wall was expected to hold back drainage.

If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

Ronald R. Bohannan, P.E.

JN: 2018014 RRB/vc/ye

DRAINAGE REPORT

For

601Gallatin Pl. NW ALBUQUERQUE, NEW MEXICO

Prepared by

Tierra West, LLC 5571 Midway Park Place NE Albuquerque, New Mexico 87109

Prepared for

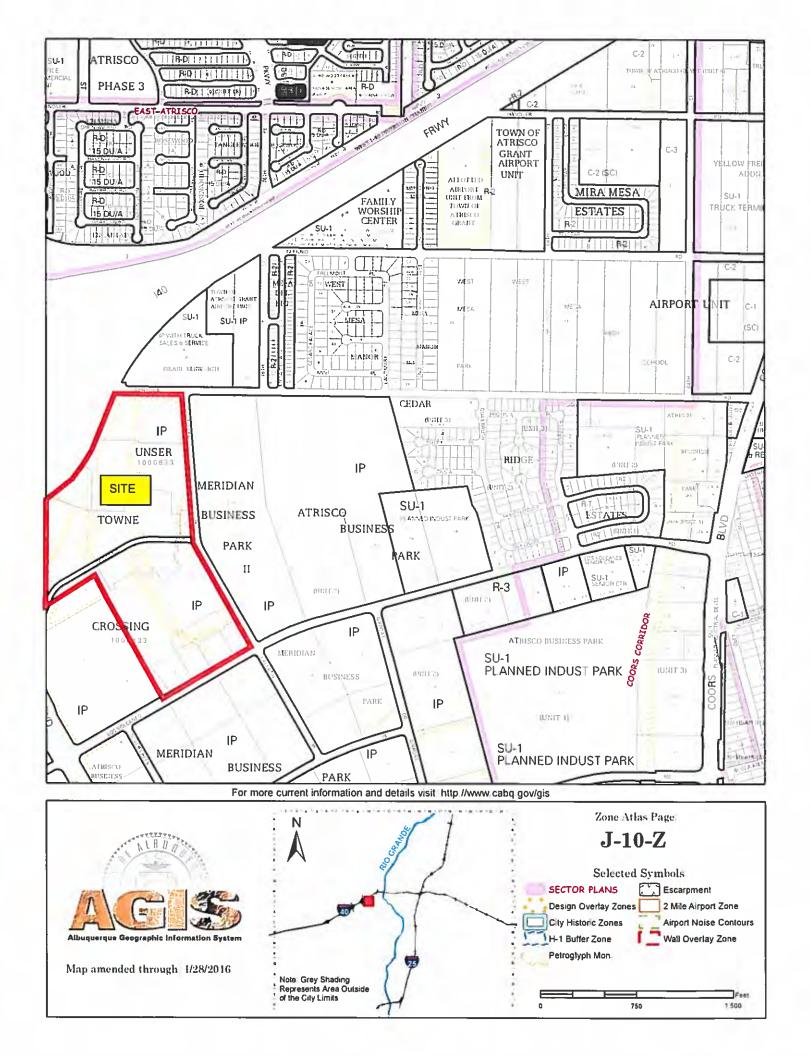
Ben E. Keith Albuquerque, NM

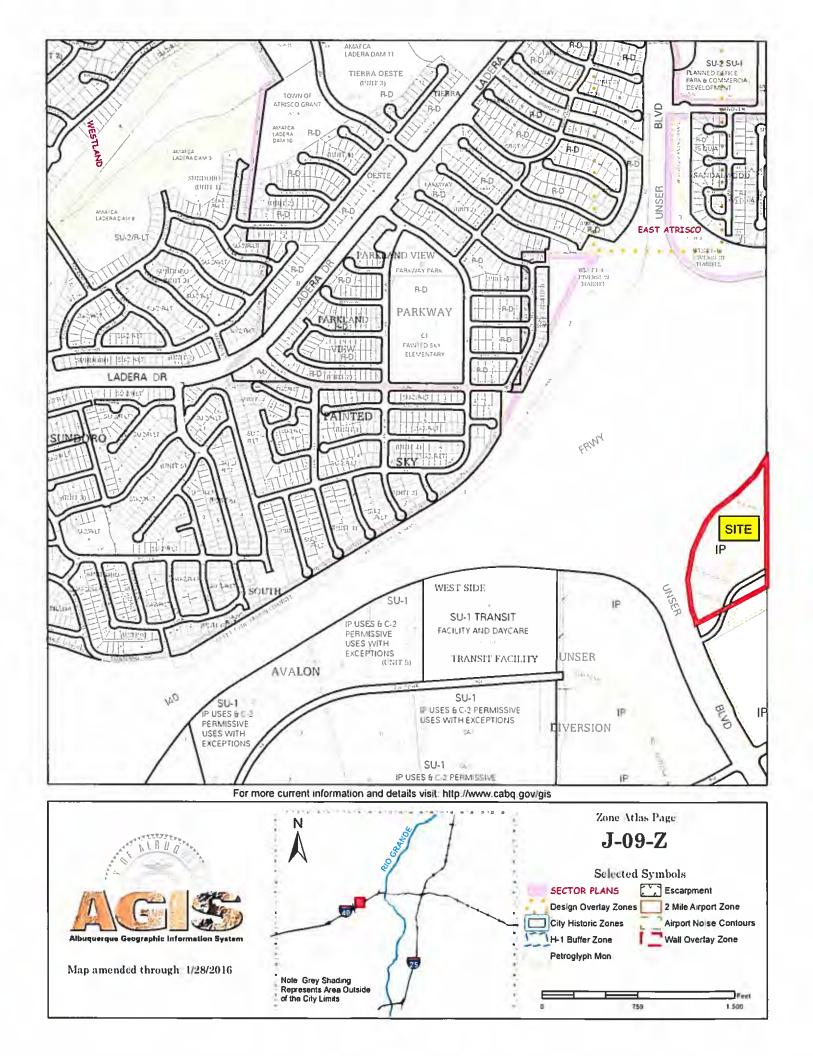
September 06, 2019

Ronald R. Bohannan E #7868

TABLE OF CONTENTS

Zone Atlas Map J-9&10	•••••	1
Location		2
Drainage Basin Designation .		2
Existing Drainage Conditions		2
FIRM Map		2
Design Criteria		3
Developed Drainage Conditio	ons	3
Basin Map Proposed Condition	ons	4
Summary	¥	3
Weighted E Table		5
GRADING AND DRAINAGE I	PLAN	MAP POCKET





LOCATION

The proposed commercial development is located off Gallatin Place south of Interstate 40, east of Unser Blvd at the corner of Los Volcanes and Gallatin Pl in southwest Albuquerque. It is comprised of approximately 50.35 acres zoned NR-BP. This report represents a drainage management and grading plan for approval by the City of Albuquerque, for Site Plan, grading and Building Permit submittal.

DRAINAGE BASIN DESIGNATION

The drainage basins for proposed conditions are as indicated on the BASIN MAP included in this report. The site is broken into 34 onsite drainage basins and one upland offsite basin to the west within the Coca Cola Lot 16 parcel.

EXISTING DRAINGE CONDITIONS

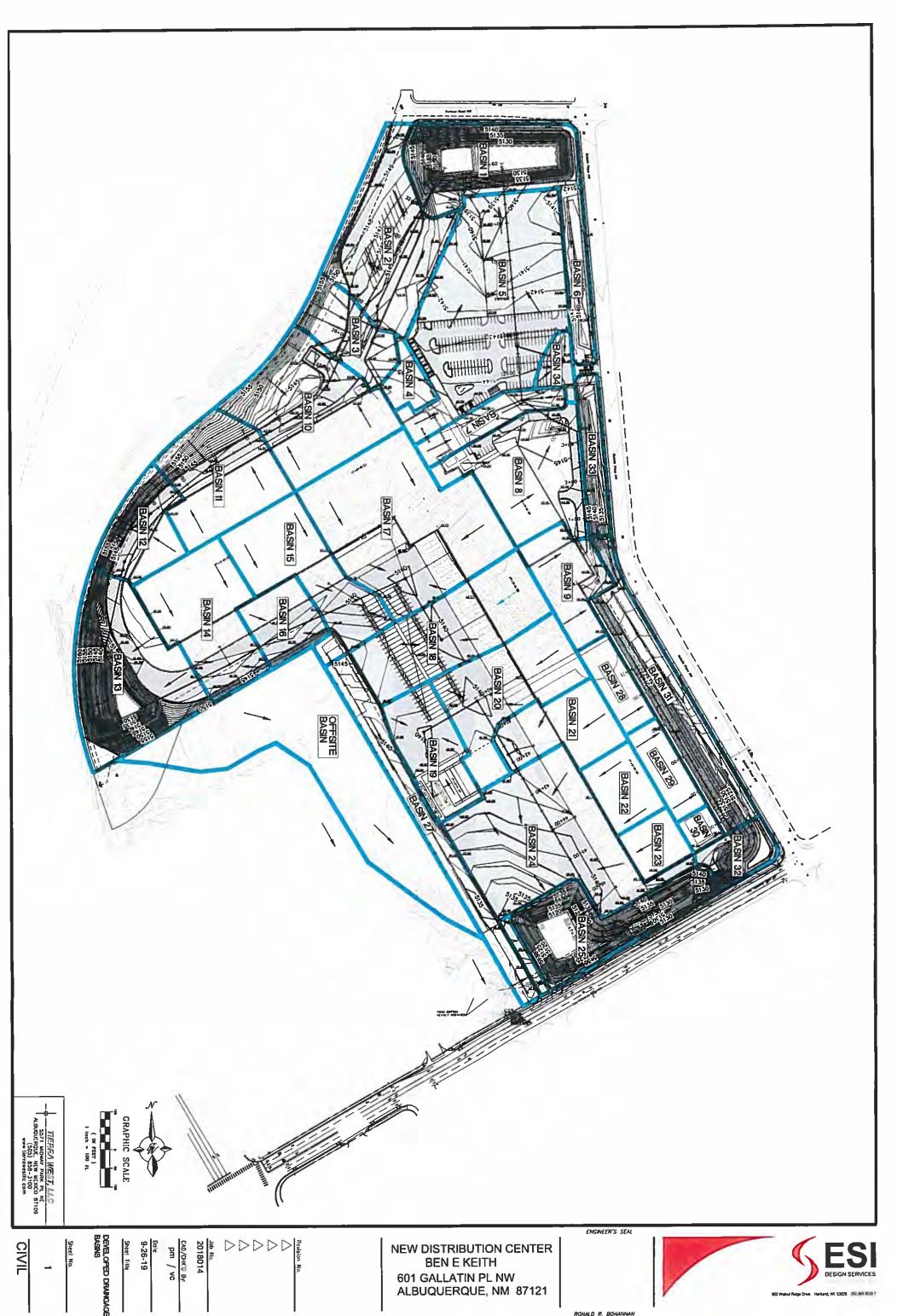
The site is currently vacant with several earthen detention ponds constructed onsite. It drains predominantly northwest to southeast. Runoff from an upland undeveloped basin that is within the Coca Cola Lot 16 drains onto the site. This runoff is combined with the onsite runoff and routed through existing detention ponds before being released to Los Volcanes Rd, which then drains to the east per the Atrisco Business Park Master Drainage Plan for fully developed conditions, dated February of 1992.

FIRM MAP

The site is not located in a flood plain as is shown on designated Flood Hazard Zone Map No. 35001C0328J dated 11/4/2016.

DESIGN-CRITERIA

The drainage plan presented in this report was prepared in accordance with the City of Albuquerque Drainage Ordinances and the Development Process Manual DPM. The hydrological analysis is based on the 100-year frequency, 6-hour duration storm. The plan will also include retention of the first flush in on-site drainage ponds. See attached Weighted E Table for excess precipitation values calculated for this site.



RONALD R. BOHANNAN P.E. \$7868

National Flood Hazard Layer FIRMette



become superseded by new data over time. AREA OF MINIMAL FLOOD HAZARD 3500103260 eff.fr1/4/2016 6500100281 eff.f1/4/2016 Abuque rque STREET

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

0.2% Annual Chance Flood Hazard, Areas depth less than one foot or with drainage Area of Undetermined Flood Hazard of 1% annual chance flood with average Cross Sections with 1% Annual Chance With BFE or Depth Zene AE, AO, AN VE. AR Area with Flood Risk due to Levee Area with Reduced Flood Risk due to NO SCREEN Area of Minimal Flood Hazard areas of less than one square mile Without Base Flood Elevation (BFE) - - - Channel, Culvert, or Storm Sewer Base Flood Elevation Line (BFE) Future Conditions 1% Annual Water Surface Elevation Chance Flood Hazard Regulatory Floodway Coastal Transect **Effective LOMRs** SPECIAL FLOOD HAZARD AREAS OTHER AREAS OF FLOOD HAZARD OTHER AREAS

Coastal Transect Baseline No Digital Data Avallable Digital Data Available Hydrographic Feature **Profile Baseline** Limit of Study Unmapped OTHER FEATURES MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

authoritative NFHL web services provided by FEMA. This map was exported on 1/31/2019 at 6:29:47 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective Information may change or This map compiles with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown compiles with FEMA's basemap The flood hazard information is derived directly from the accuracy standards

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DEVELOPED-DRAINAGE CONDITIONS

The site is proposed to be developed with a single user, Ben E Keith food distribution facility that will be constructed in phases. No offsite flows will enter the site with the exception of the upland basin in the Coca Cola Lot 16 undeveloped portion (approximately 4.2 acres), which will continue to be routed through the subject site until it is developed in the future. Runoff from the site will be routed to four onsite drainage ponds. Discharge from the overall site will be equal to or less than the allowable 0.1 cfs per acre. The total onsite acreage is 50.35 acres. The offsite upland acreage is 4.2 acres. The allowable discharge at 0.1 cfs per acre for the total 54.55 acres is 5.45 cfs. This is in compliance with the Atrisco Business Park Master Drainage Plan for fully developed conditions dated February of 1992. The drainage ponds will retain the first flush retention volumes as required by the drainage ordinance.

Refer to enclosed Weighted E computation spreadsheet for developed runoff conditions. Storm drain capacities are listed in a table in the appendix along with ponding capacities.

SUMMARY

The proposed grading and drainage plan for the proposed development of the existing undeveloped property includes surface flows and an onsite storm drain to convey runoff to retention ponds. The drainage management plan for this site is in accordance with the 2007 Meridian Business Park II Plan. The allowable discharge is 0.1 cfs/acre so the maximum allowable discharge for this 50.35 acre site plus the 4.2 acres offsite area is 5.45 cfs. The entire site, with the exception of the landscape areas on the east side of the site will drain into onsite retention ponds sized for the storm water runoff from the 100 year – 10 day storm. Storm water quality volumes (first flush) are retained within the onsite retention ponds



TIERRA WEST, LLC

September 12, 2019

Jeff Edwards Swire Coca-Cola, USA 12364 South 265 West Draper, UT 84020

RE: BEN E. KEITH OFFSITE IMPROVEMENTS

Dear Mr. Edwards

As part of the Ben E Keith rondway improvements to Los Volcanes east of Unser Blvd, reconstruction of the existing drainage pond concrete emergency overflow structure will be required. The existing overflow structure is located in the southwest corner of the drainage pond on the Swire Coca-Cola property. It will be rebuilt at the same location and will maintain the existing pond volume capacity as well as provide for the overflow capacity. If you are in agreement with allowing the improvements to take place with the construction of the roadway improvements, please sign your concurrence below.

If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely.

Ronald R. Bohannan, P E cc. Eric Alexander, BEK

Shahab Biazar, City Engineer

Vice Basil +

JN 2018014

BEK Ultimate Buildout

Weighted E Method

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0.0% 0.000 0.0% 0.000 <t< td=""><td>72,198 0.510 0.0080 0% 0 0% 0.000 0% 0.000 0% 0.000 0% 0.00% 0.000 0% 0.00% 0.000 0% 0.00% 0.000 0% 0.00% 0.</td><td> 2,1395 0,721 0,00113 0% 0 0% 0,000 0% 0 100% 0,721 1,970 0,014 2.31 1,240 0,074 2.08 0,720 0,043 147,654 3.99 0,00530 0% 0 0% 0,000 0% 0,000 0% 0,510 1,970 0,0556 14.81 1,240 0,053 1,47 0,720 0,031 1,7584 1,790 0,00530 0% 0 0% 0,000 0% 0 1,00% 3.390 1,970 0,556 14.81 1,240 0,350 9.80 0,720 0,233 1,7984 1,790 0,00280 0% 0 0% 0,000 0% 0,000 0,000 0,144 4.72 0,378 0,055 2.30 0,098 0,013 0,256 1,437 0,055 2.30 0,098 0,013 0,246 1,470 0,0002 0,000</td><td>50.827 1.157 0.00182 0% 0 0% 0.00 0% 0.100 0% 0.100 0% 0.100 0% 0.100 0% 0.100 0% 0.100 0% 0.100 0% 0.100 0% 0.100 0% 0.12 3.15 1.240 0.074 2.08 0.720 0.043 2.2198 0.510 0.000180 0% 0.000 0% 0.100% 0.510 1.970 0.018 2.23 1.240 0.053 1.47 0.720 0.031 1.17.56 0.00280 0.0% 0.000 0.% 0.000 0.9% 0.100% 0.900 0.148 1.240 0.053 1.47 0.720 0.031 1.17.50 0.00280 0.0% 0.000 0.9% 0.100% 0.000 0.9% 0.000 0.9% 0.000 0.9% 0.000 0.9% 0.000 0.9% 0.000 0.9% 0.100% 0.000 0.9% 0.000 0.9% 0.000</td><td> B5.099 1.952 0.00305 0.9% 0.0 0.9% 0.000 0.9% 0.0 10.09% 1.167 0.320 8.53 1.240 0.202 5.64 0.720 0.117 </td><td>53.031 1.277 0.00190 0% 0.000% 0.000 0% 0.000 0% 0.000 0% 0.000 0% 0.000 0% 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0.000 0.000 0.000</td><td>97763 2244 000351 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0</td><td> 163,506 3744 0.00387 0% 0 0% 0.000 0% 0 100% 3754 1970 0.686 1640 1240 0.386 1085 0.720 0.225 53.031 1.217 0.00180 0% 0 0% 0.000 0% 0 100% 1.217 1.970 0.260 9.81 1.240 0.232 6.43 0.720 0.733 85.031 1.217 0.00180 0% 0 0% 0.000 0% 0 100% 1.217 1.970 0.220 85.31 1.240 0.223 6.43 0.720 0.073 1.245 0.00315 0% 0 0% 0.000 0% 0 100% 1.217 1.970 0.220 85.31 1.240 0.223 6.43 0.720 0.073 1.245 0.073 1.245 0.073 0.</td><td> 34411 0.796</td><td> Recess 1887 0.00296 0.0% 0.2% 0.038 3% 0.0669 95% 1.8915 0.030 3.1 1.196 0.029 0.08 0.189 0.24
0.001 0.0</td><td>85.002 1.951 0.00305 0% 01 0% 01 0% 0.9757 9% 1.921 0.312 8.38 1.201 0.195 5.50 0.690 0.112 82.626 1.897 0.00266 0% 0.028 0.0288 0.0123 9% 1.821 1.915 0.33 1.126 0.195 5.32 0.688 0.195 1163.508 3.734 0.00587 0% 0.000 0% 0.000 0% 0.000 0.98 0.195 1.921 0.045 9.7783 2.734 0.00387 0% 0.000 0% 0.100% 2.244 1.970 0.368 981 1.240 0.232 6.49 0.720 0.025 85.027 1.1877 0.00182 0.% 0.000 0% 0.100% 1.241 1.970 0.328 1.240 0.023 6.49 0.720 0.735 1.240 0.023 6.49 0.720 0.073 0.100% 0.100% 0.119 <t< td=""><td> 118,308 2,716 0,00424 0% 0,23% 0,225 50% 1,3799 27% 0,733 1,191 0,287 0,328 3,200 0,195 0,505 0,987 0,287 </td><td> 146.594 1.086</td><td> RET.MAY 1886 0.001675 0.0% 0.4 4% 0.413 25% 0.5650 71% 0.728 1.573 0.048 4.77 0.999 0.048 4.2 0.497 0.078 1.186 0.00167 0.0% 0.4 4% 0.443 2.5% 0.0569 71% 0.758 1.573 0.048 4.77 0.999 0.048 2.62 0.078 0.028 0.</td><td> 1706 1502 2.4941 0.000395 0.0% 0.0 36% 0.174 0.2985 0.2984 0.2984 1.485 0.0384 0.174 0.198 0.0495 0</td><td> 146,687 1,058 0,00186 096, 0 096, 0 0,000 076, 0
076, 0 0</td><td> Recides 1,085</td><td> 22,0072 20,0073 20,000 20% 20 20% 20,000 20% 20% 20.0000 20% 20.000 20.0000 20.000 20.000 20.0</td><td> 282 177 0.648 0.00101 06% 0.100% 0.568 0.968 0.978 0.200 0.078 0.201 0.020 0.012 0.040 0.010 0.001 0</td><td> 1992,2077 0.6645 0.01700 0.765 0.448 0.96 0.0976 0.048 0.0976 0.0275 0.</td><td> 15.488 0.335 0.00055 0.000 0.780 0.286 0.286 0.0007 0.000 0.780 0.0008 0.000 </td><td> 141568 0.0853 0.00149 0.0% 0.1 20% 0.181 40% 0.081 0.281 0.018 0.018 0.018 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.028 0.027 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028
0.028 0</td><td> 100,768 2,405 0,00376 0,008 0,008 0,009 </td><td> 144,7656 2,0442 0,000319 0,764 0,075</td><td> Marie Mari</td><td> Anna Anna </td></t<></td></t<> | 72,198 0.510 0.0080 0% 0 0% 0.000 0% 0.000 0% 0.000 0% 0.00% 0.000 0% 0.00% 0.000 0% 0.00% 0.000 0% 0.00% 0. | 2,1395 0,721 0,00113 0% 0 0% 0,000 0% 0 100% 0,721 1,970 0,014 2.31 1,240 0,074 2.08 0,720 0,043 147,654 3.99 0,00530 0% 0 0% 0,000 0% 0,000 0% 0,510 1,970 0,0556 14.81 1,240 0,053 1,47 0,720 0,031 1,7584 1,790 0,00530 0% 0 0% 0,000 0% 0 1,00% 3.390 1,970 0,556 14.81 1,240 0,350 9.80 0,720 0,233 1,7984 1,790 0,00280 0% 0 0% 0,000 0% 0,000 0,000 0,144 4.72 0,378 0,055 2.30 0,098 0,013 0,256 1,437 0,055 2.30 0,098 0,013 0,246 1,470 0,0002 0,000 | 50.827 1.157 0.00182 0% 0 0% 0.00 0% 0.100 0% 0.100 0% 0.100 0% 0.100 0% 0.100 0% 0.100 0% 0.100 0% 0.100 0% 0.100 0% 0.12 3.15 1.240 0.074 2.08 0.720 0.043 2.2198 0.510 0.000180 0% 0.000 0% 0.100% 0.510 1.970 0.018 2.23 1.240 0.053 1.47 0.720 0.031 1.17.56 0.00280 0.0% 0.000 0.% 0.000 0.9% 0.100% 0.900 0.148 1.240 0.053 1.47 0.720 0.031 1.17.50 0.00280
 0.0% 0.000 0.9% 0.100% 0.000 0.9% 0.000 0.9% 0.000 0.9% 0.000 0.9% 0.000 0.9% 0.000 0.9% 0.100% 0.000 0.9% 0.000 0.9% 0.000 | B5.099 1.952 0.00305 0.9% 0.0 0.9% 0.000 0.9% 0.0 10.09% 1.167 0.320 8.53 1.240 0.202 5.64 0.720 0.117 | 53.031 1.277 0.00190 0% 0.000% 0.000 0% 0.000 0% 0.000 0% 0.000 0% 0.000 0% 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0.000 0.000 0.000 | 97763 2244 000351 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 | 163,506 3744 0.00387 0% 0 0% 0.000 0% 0 100% 3754 1970 0.686 1640 1240 0.386 1085 0.720 0.225 53.031 1.217 0.00180 0% 0 0% 0.000 0% 0 100% 1.217 1.970 0.260 9.81 1.240 0.232 6.43 0.720 0.733 85.031 1.217 0.00180 0% 0 0% 0.000 0% 0 100% 1.217 1.970 0.220 85.31 1.240 0.223 6.43 0.720 0.073 1.245 0.00315 0% 0 0% 0.000 0% 0 100% 1.217 1.970 0.220 85.31 1.240 0.223 6.43 0.720 0.073 1.245 0.073 1.245 0.073 0. | 34411 0.796 | Recess 1887 0.00296 0.0% 0.2% 0.038 3% 0.0669 95% 1.8915 0.030 3.1 1.196 0.029 0.08 0.189 0.24 0.001 0.0 | 85.002 1.951 0.00305 0% 01 0% 01 0% 0.9757 9% 1.921 0.312 8.38 1.201 0.195 5.50 0.690 0.112 82.626 1.897 0.00266 0% 0.028 0.0288 0.0123 9% 1.821 1.915 0.33 1.126 0.195 5.32 0.688 0.195 1163.508 3.734 0.00587 0% 0.000 0% 0.000 0% 0.000 0.98 0.195 1.921 0.045 9.7783 2.734 0.00387 0% 0.000 0% 0.100% 2.244 1.970 0.368 981 1.240 0.232 6.49 0.720 0.025 85.027 1.1877 0.00182 0.% 0.000 0% 0.100% 1.241 1.970 0.328 1.240 0.023 6.49 0.720 0.735 1.240 0.023 6.49 0.720 0.073 0.100% 0.100% 0.119 <t< td=""><td> 118,308 2,716 0,00424 0% 0,23% 0,225 50% 1,3799 27% 0,733 1,191 0,287 0,328 3,200 0,195 0,505 0,987 0,287
 0,287 0,287 0,287 0,287 </td><td> 146.594 1.086</td><td> RET.MAY 1886 0.001675 0.0% 0.4 4% 0.413 25% 0.5650 71% 0.728 1.573 0.048 4.77 0.999 0.048 4.2 0.497 0.078 1.186 0.00167 0.0% 0.4 4% 0.443 2.5% 0.0569 71% 0.758 1.573 0.048 4.77 0.999 0.048 2.62 0.078 0.028 0.</td><td> 1706 1502 2.4941 0.000395 0.0% 0.0 36% 0.174 0.2985 0.2984 0.2984 1.485 0.0384 0.174 0.198 0.0495 0</td><td> 146,687 1,058 0,00186 096, 0 096, 0 0,000 076, 0 0</td><td> Recides 1,085</td><td> 22,0072 20,0073 20,000 20% 20 20% 20,000 20% 20% 20.0000 20% 20.000 20.0000 20.000 20.000 20.0</td><td> 282 177 0.648 0.00101 06% 0.100% 0.568 0.968 0.978 0.200 0.078 0.201 0.020 0.012 0.040 0.010 0.001
0.001 0</td><td> 1992,2077 0.6645 0.01700 0.765 0.448 0.96 0.0976 0.048 0.0976 0.0275 0.</td><td> 15.488 0.335 0.00055 0.000 0.780 0.286 0.286 0.0007 0.000 0.780 0.0008 0.000 </td><td> 141568 0.0853 0.00149 0.0% 0.1 20% 0.181 40% 0.081 0.281 0.018 0.018 0.018 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.028 0.027 0.028 0</td><td> 100,768 2,405 0,00376 0,008 0,008 0,009 </td><td> 144,7656 2,0442 0,000319 0,764 0,075
0,075 0,075</td><td> Marie Mari</td><td> Anna Anna </td></t<> | 118,308 2,716 0,00424 0% 0,23% 0,225 50% 1,3799 27% 0,733 1,191 0,287 0,328 3,200 0,195 0,505 0,987 0,287 | 146.594 1.086 | RET.MAY 1886 0.001675 0.0% 0.4 4% 0.413 25% 0.5650 71% 0.728 1.573 0.048 4.77 0.999 0.048 4.2 0.497 0.078 1.186 0.00167 0.0% 0.4 4% 0.443 2.5% 0.0569 71% 0.758 1.573 0.048 4.77 0.999 0.048 2.62 0.078 0.028 0. | 1706 1502 2.4941 0.000395 0.0% 0.0 36% 0.174 0.2985 0.2984 0.2984 1.485 0.0384 0.174 0.198 0.0495 0 | 146,687 1,058 0,00186 096, 0 096, 0 0,000 076, 0 0 | Recides 1,085 | 22,0072 20,0073 20,000 20% 20 20% 20,000 20% 20% 20.0000 20% 20.000 20% 20.000 20% 20.000 20% 20.000 20% 20.000 20% 20.000 20% 20.000 20% 20.000
 20% 20.000 20.000 20.0000 20.000 20.000 20.0 | 282 177 0.648 0.00101 06% 0.100% 0.568 0.968 0.978 0.200 0.078 0.201 0.020 0.012 0.040 0.010 0.001 0 | 1992,2077 0.6645 0.01700 0.765 0.448 0.96 0.0976 0.048 0.0976 0.0275 0. | 15.488 0.335 0.00055 0.000 0.780 0.286 0.286 0.0007 0.000 0.780 0.0008 0.000 | 141568 0.0853 0.00149 0.0% 0.1 20% 0.181 40% 0.081 0.281 0.018 0.018 0.018 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.028 0.027 0.028 0 | 100,768 2,405 0,00376 0,008 0,008 0,009
0,009 0,009 | 144,7656 2,0442 0,000319 0,764 0,075 | Marie Mari | Anna Anna |

REQUIRED 100YR,6HR

PROVIDED VOLUME

IMPERV AREA (D)

10-DAY VOLUME

MAX TOP OF OVERFLOW
WSE POND WEIR

Impervious ACRES

SWQV

12.148

14,993

0 11.122

0 13,727

0.034

1.229 54.449

NORTH
POND
DIRECT
DISCHARGE
WEST POND
SOUTH
POND
EAST POND

3.447

0.06 11.12

0.042 3.355

5138.24

5140.7

2,088 0.173

4.144 0.216

12.32 0.06

3.597 0.181

5127.21 5121.73

5130 H=2.79', L=17.3', CAPACITY=129 CFS 5122

10.464 0.064

12,915 79

2 522

71.804

9.725

13.14

4.132

5132 26

5139

BEK Ultimate Buildout

HYDRAULIC GRADES

T 7		_					_			_			_			_		_		_	_			
	26	25	24	23	22	21	19	18	17	16	15	9	8	7	6	5	4	3	2B	2A	2	1	Run No.	Culvert
	M10	6M	8M	D15	D13	D14	D12	D11	D10	D9	D8	D7	D6	M1	D1	M2	D2	D3	D5	M4	M3	D4		FROM
	39.81	40.11	40.62	39.9	39.4	39.7	39.4	39.4	39.6	40.2	40.2	42	42.1	43.33	42	42	42	42	42.1	42.69	44.3	42.8	ELEV	RIM
	SP	M10	eW	M8	M8	D13	D11	D10	D9	D8	WP	D6	D5	NP	М1	M1	M2	M2	M4	M3	NP	M3		01
		39.81	40.11	40.62	40.62	39.4	39.4	39.6	40.2	40.2		42.1	42.1		43.33	43.33	42	42	42.69	44.3	_	44.3	ELEV	RIM
	77	233	233	24	164	164	190	143	198	180	268	263	280	473	126	144	50	113	90	190	445	55	(ft)	Length
	19 THRU 23	19 THRU 22	19 THRU 21	21	19,20	19	18	17,18	15,17,18	15 THRU 18	14 THRU18	12	11,12	7,8,9,34	34	7,8,9	7	8,9	10,11,12	10,11,12	3,10,11,12	3	BASINS	CONTRIBUTING
	24.33	22.1	18.95	5.1	13.85	5.32	9.81	26.21	34.28	37.6	45.9	4.17	11.3	15.09	1.29	13.8	1.89	11.91	19.99	19.99	23.14	3.15	(CFS)	۵
	27.76	30.09	32.42	35.9	34.06	35.7	35.4	33.5	32.07	30.09	28.29	38	35.37	31.73	38	33.17	38	33.85	32.57	31.67	29.77	37		inv in
	20	27.76	30.09	35	32.42	34.06	33.5	32.07	30.09	28.29	25.61	35.37	32.57	27	31.73	31.73	33.17	33.17	31.67	29.77	25.32	36		Inv Out
	0.1008	0.01	0.01	0.0375	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0498	0.01	0.0966	0.006	0.01	0.01	0.01	0.0182		Slope
	30	30	24	18	24	18	24	30	30	30	36	18	24	24	12	24	12	24	36	36	36	18	(in)	0
	30.00	30.00	24.00	18.00	24.00	18.00	24.00	30.00	30.00	30.00	36.00	18.00	24.00	24.00	12.00	24.00	12.00	24.00	36.00	36.00	36.00	18.00	(IN)	DEPTH
	2.50	2.50	2.00	1.50	2.00	1.50	2.00	2.50	2.50	2.50	3.00	1.50	2.00	2.00	1.00	2.00	1.00	2.00	3.00	3.00	3.00	1.50	(FT)	DEPTH
	30	30	24	81	24	18	24	30	30	30	36	18	24	24	12	24	12	24	36	36	36	18	(IN)	DIA.
	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.006	0.01	0.01	0.01	0.01	(FT/FT)	SLOPE
	41.13	41.13	22.68	10.53	22.68	10.53	22.68	41.13	41.13	41.13	66.88	10.53	22.68	22.68	3.57	22.68	3.57	17.57	66.88	66.88	66.88	10.53	(CFS)	0
	8.38	8.38	7.22	5.96	7.22	5.96	7.22	8.38	8.38	8.38	9.46	5.96	7.22	7.22	4.55	7.22	4.55	5.59	9.46	9.46	9.46	5.96		<

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Project BEK	Date
Project No. DRAINAGE READET	
Meeting Purpose <u>CALCS</u>	Sheet No <u>/</u> of <u>3</u>
Attendees	

TIERRA WEST, LLC

South POND WEIR:
L=17.3ft Top slev=5130° Bottom slev=5127°-1 h=2.79ft
$Q = 1.6LH^{3/2} = 1.6(17.3)(2.79)^{3/2} = 129cfs > Q_{100} = 61.55cfs$
South POND RUNDOWN, 4ft (CONCRETE)
WIDTH = 4ft, height = 1.5ft Top Elsu = 513420, Buttom Elev = 51170, L=52ft, Slops = 33%
$Q_{CAPAC,Ty} = \frac{1.49}{D} A R^{2/3} S^{1/2} = \frac{1.49}{0.013} (6) (0.86)^{2/3} (0.33)^{1/2} = 357cfs$
A = 4(1.5) = 6 $WP = 7$, $R = \frac{4}{WP} = \frac{6}{7} = 0.86$ QCAPACITY = QREQ = 14.81cf 5 V N = 0.013
NORTH POND RUNDOWN 4ft (CONCRETE)
WIDTH = 4ft, height = 1.5ft TOP ELEV = 5138 50, BOTTOM ELEV = 512500, L= 54 ft, Slope = 25%
QCAPACITY = 1.49 (6) (0.86) 2/3 (0.25) = 31/cfs
A= 4(1.5)=6 WP=7, R=#p====0186 N=0.013 Q=APACITY = QREQ=33.58 cfs

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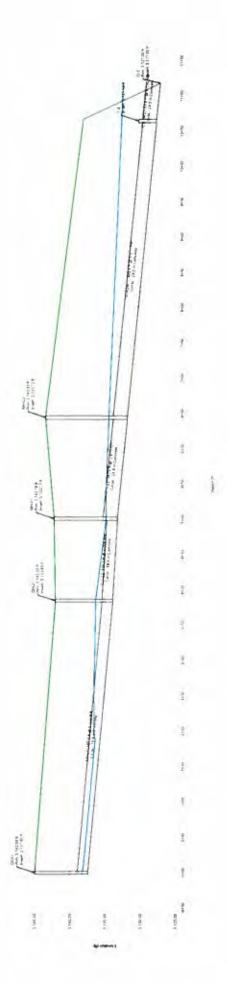
Project BEK	Date9-/-/9				
Project No. <u>DRAMAGE RPL</u> Meeting Purpose <u>Poub CALCS</u>					
Meeting Purpose Tous CALCS	Sheet NoZ of 3				
Attendees					
	<u></u>				

TIERRA WEST, LLC

South Pople
POND BOTTOIN ELEV = 5117°, AREA = 9,578ft2 POND TOP ELEV = 512721, AREA = 27,297ft2 h=10.21ft
* Pond Volume = h/3 (b1+b2 + [(b1)(b2)]1/2)
= [10,21 (9,578+27,297 + (9,578(27,297))] /43,560 ft2 POND VOLUME = 4.144 ACFE > 10-6Ay VOLUME RED = 3.903 ACFE V
WEST POUD: POND BOTTOM ELEV = 5126°, AREA = 3,363 ft 2 h = 13.4 ft POND TOP ELEV = 51394, AREA = 21,711ft 2
*POND VOLUME = h/3 (B1+B2+ [(b1)(b2)]1/2) = [13.4 (3,363+21,711+ (3363(21,711))1/2)] /43,560 ft2/ACRE
POND VOLUME = 3.447 Ac. Ft > 10-dAy VOLUME REQ = 3.355 AC-Ft
* CALCS BASED ON CONIC APPROXIMATION METHOD (VOLUME OF A FRUSTUM)

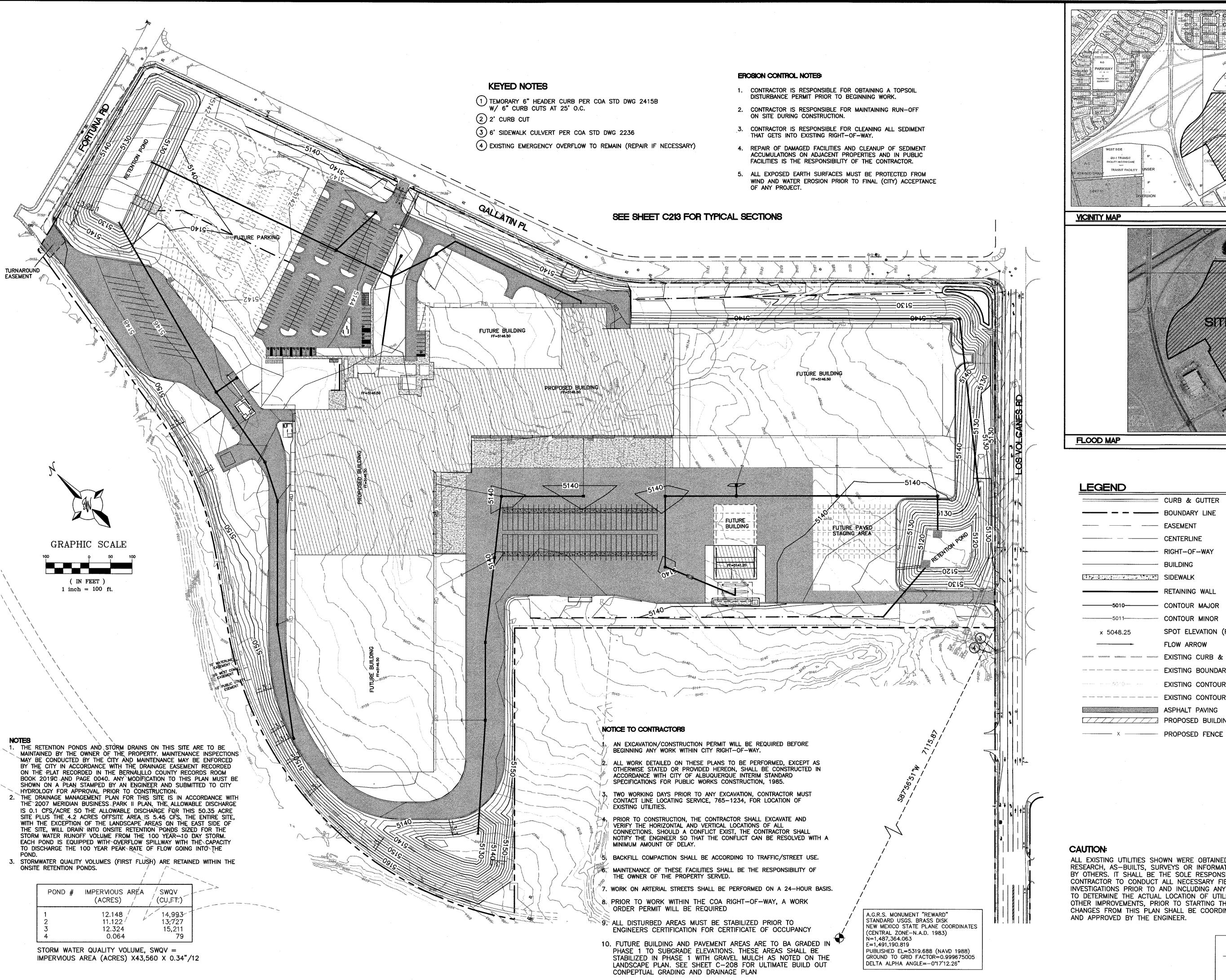
P		Project <u>B&K</u>	_ Date <u>9-1-19</u>
		Project No. DRAINAGE RPT	·
12		Meeting Purpose Powb CALCS (ConT.)	Sheet No 3 of 3
		Attendees	
SIS 1.			
	TIERRA WEST, LLC		

EAST	Ponb:							
POND TO	OTTOM SLEV	1 = 511950 51220	AREA = 2 AREA = 5	,531 ft ² ,154 ft ²	h= 2	7.5ft		
*Pond Vol	LUME = h	13 (b,+b2	+ [(b)	(62)]1/2)				
	= 2.5	(2,531+5,	154+(2,53	1(5,154))1/2)]/43	3,560 ft ² /1	ACRE	
POND VC				Volume RE				
NORTH	POND:							
UPPER POI	US BOTTON	ELEV = 51 ELEV = 51 5138°, A	27º , ARE	A = 5,325 fg A = 21,162 fg ,864 ft ²	tz	h= Zft h= 11ft		
- 1	h/3 (bi+b-	1 L(b) (bz) + (b,)(bz)	PER VOLUMA JV2) + h/3	(bz+b3+	[(b2)(b3)+[(b2)(b3)]'	/2)
= [] (5,3)	25+21,162+	(5,325 (21,1	62)112) +	- 11/21,162+	53,864+(21,162(53,864	1) 1/2)] /43	3560 ft ² Aces
191 QUS	UME = (24,	735 + 398	889)/43	560 = 9.72	5 Acft≥	108Ay Yolune	REQ= 4.13	ZAc.ft



Profile Report Engineering Profile - South Pond (North Pond.stsw)

StormCAD COLLIFECT Echan (10.02.01.04) Page 1 of 1





VICINITY MAP



FLOOD MAP

35001C0326J, 35001C0328J

<u>J-29-Z,J-30-Z</u>

LEGEND CURB & GUTTER ---- EASEMENT ----- CENTERLINE ---- RIGHT-OF-WAY BUILDING SIDEWALK ---- RETAINING WALL -----5010------ CONTOUR MAJOR 5011—CONTOUR MINOR SPOT ELEVATION (FLOWLINE) × 5048.25 FLOW ARROW EXISTING CURB & GUTTER EXISTING BOUNDARY LINE EXISTING CONTOUR MAJOR EXISTING CONTOUR MINOR ASPHALT PAVING PROPOSED BUILDING

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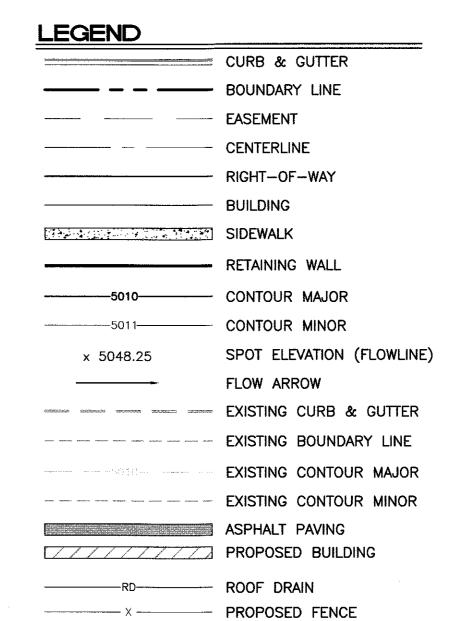
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OVERALL GRADING PLAN

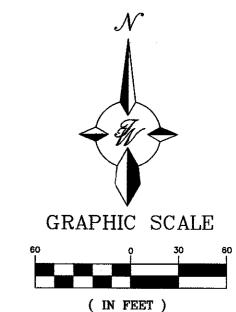
Sheet No.

C201





STRUCTURE TABLE					
STRUCTURE	SIZE/TYPE	RIM	INVERT		
MH 1	6' DIA	5143.33	5131.73		
MH 2	6' DIA	5142.00	5133.17		
MH 3	6' DIA	5144.30	5129.77		
MH 4	6' DIA	5142.69	5131.67		
INLET 1	TYPE D	5142.00	5138.00		
INLET 2	TYPE D	5142.00	5138.00		
INLET 3	TYPE D	5142.00	5133.85		
INLET 4	TYPE DOUBLE D	5142.80	5137.00		
INLET 5	TYPE DOUBLE D	5142.10	5132.57		
INLET 6	TYPE D	5142.10	5135.37		
INLET 7	TYPE D	5142.00	5138.00		



1 inch = 60 ft.

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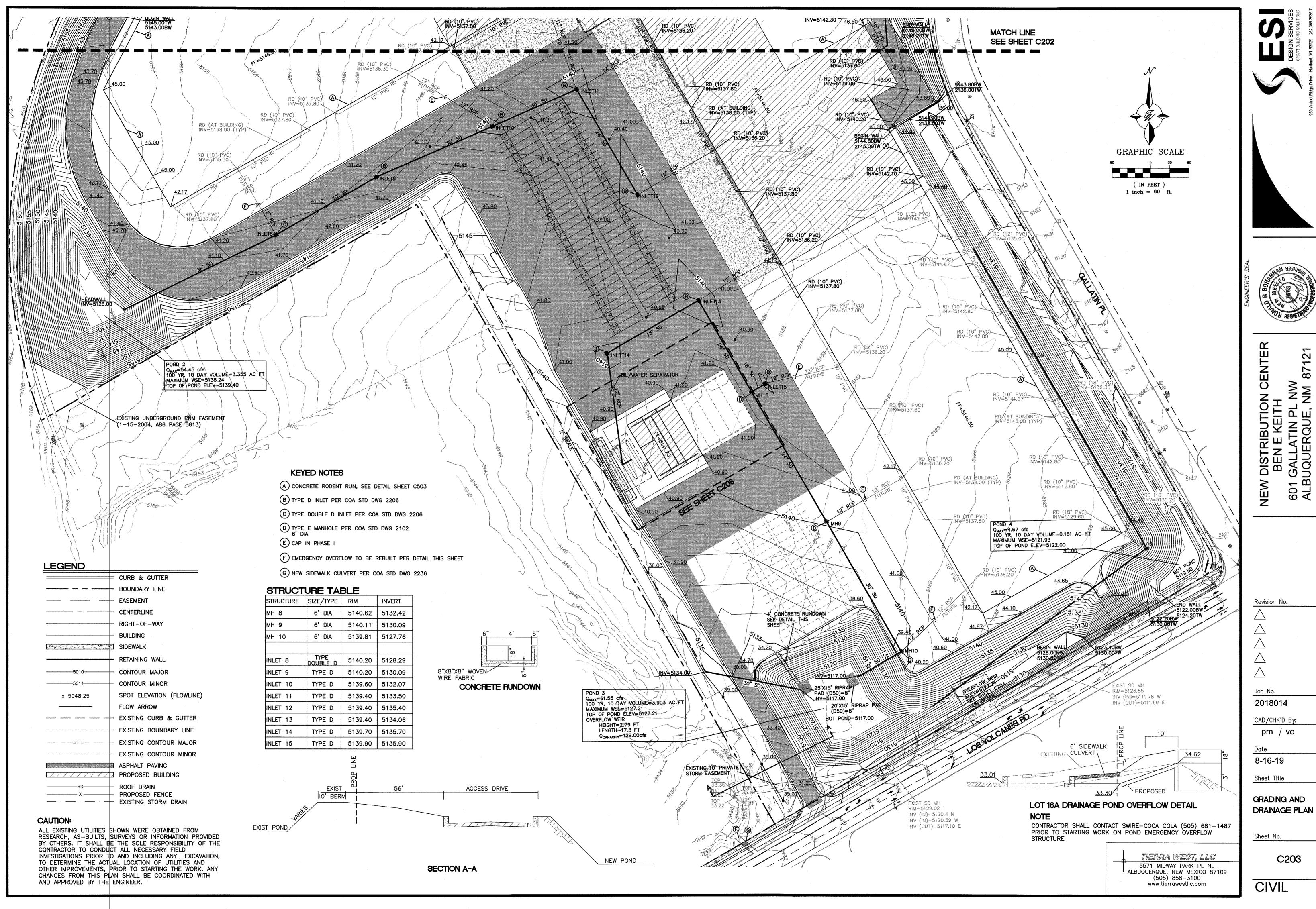
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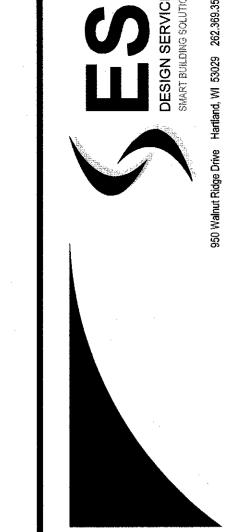
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GRADING AND DRAINAGE PLAN

Sheet No.

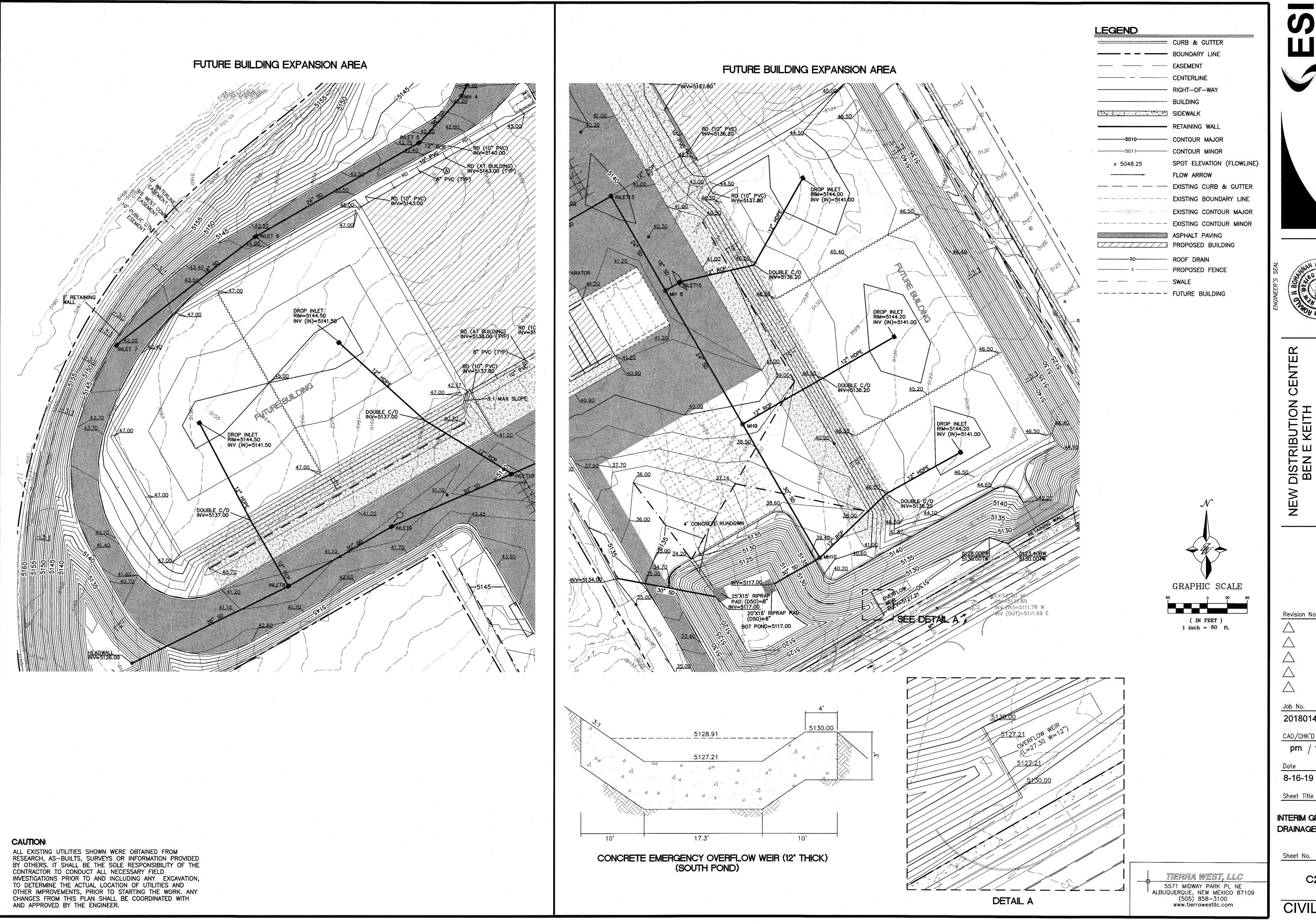
C202







C203







601 GA ALBUQ

Revision No.

2018014

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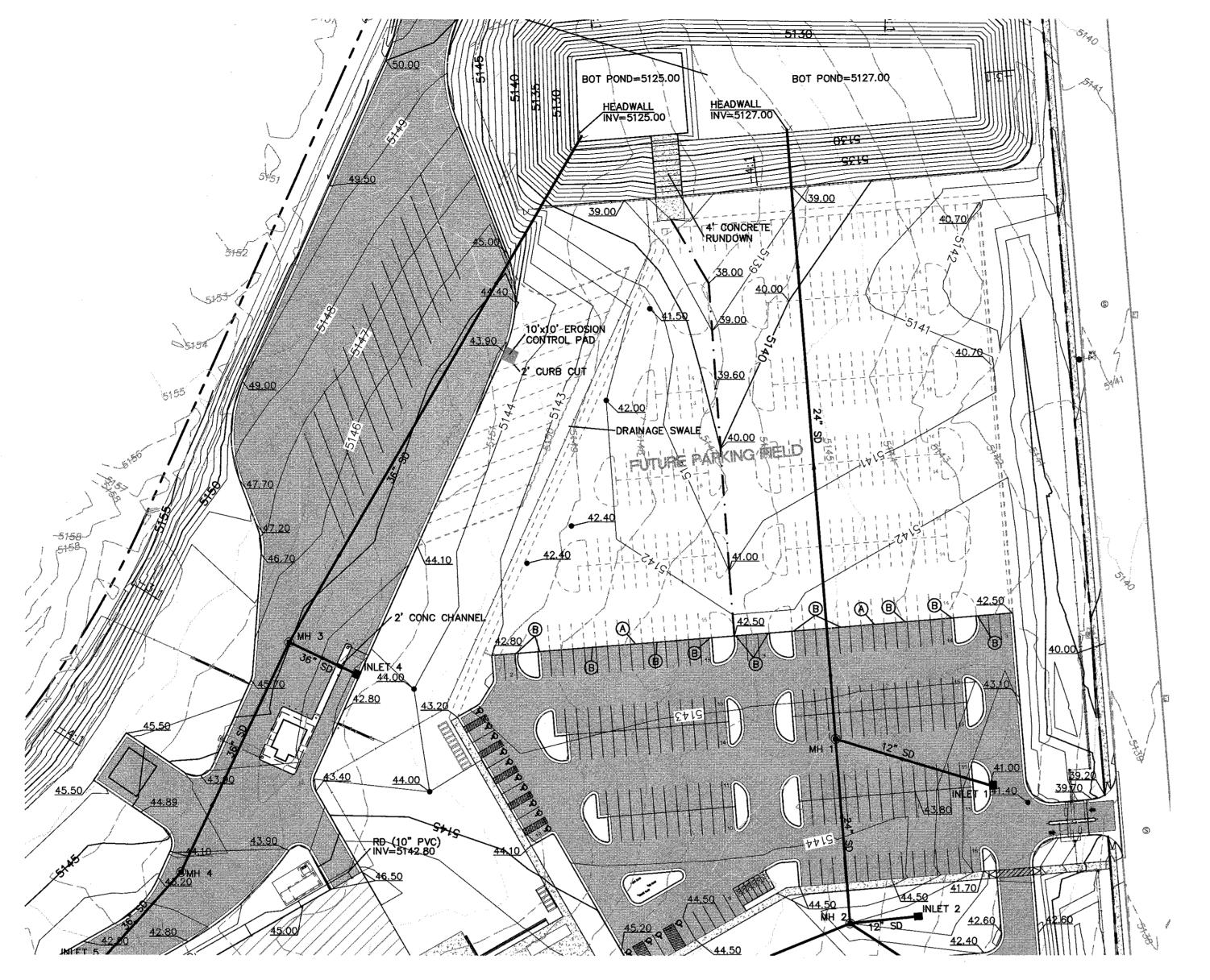
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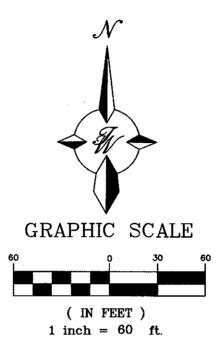
INTERIM GRADING AND DRAINAGE PLAN

Sheet No.

C204

FUTURE PARKING FIELD EXPANSION AREA





KEYED NOTES

- A TEMPORARY 6" CONCRETE HEADER CURB PER COA STD DWG 2415B W' 6" CURB CUT AT 25' OC AND AS SHOWN
- B 6" CURB CUT

LEGEND

	CURB & GUTTER
	BOUNDARY LINE
	EASEMENT
	CENTERLINE
	RIGHT-OF-WAY
	BUILDING
	SIDEWALK
	RETAINING WALL
5010	CONTOUR MAJOR
5011	CONTOUR MINOR
x 5048.25	SPOT ELEVATION (FLOWLINE)
	FLOW ARROW
constant distribute shinether shoreened centrality	EXISTING CURB & GUTTER
would publish countries superior graphics support successes supplies support support	EXISTING BOUNDARY LINE
	EXISTING CONTOUR MAJOR
AND THE PROPERTY SECTION OF SECTIONS SECTIONS SECTIONS SECTIONS SECTIONS SECTIONS	EXISTING CONTOUR MINOR
	ASPHALT PAVING
	PROPOSED BUILDING

RD-RD-ROOF DRAIN

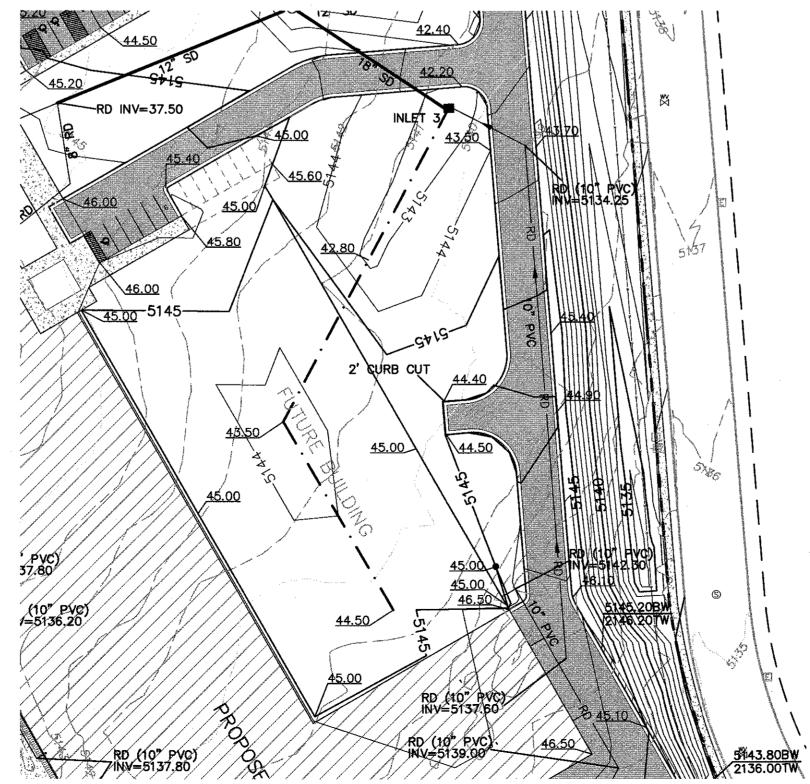
---- FUTURE BUILDING

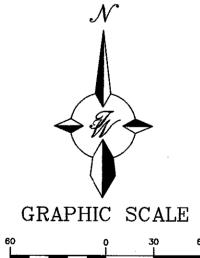
× — PROPOSED FENCE





FUTURE BUILDING EXPANSION AREA





(IN FEET) 1 inch = 60 ft.

8-16-19

Sheet Title

INTERIM GRADING AND

Sheet No.

C205

CIVIL

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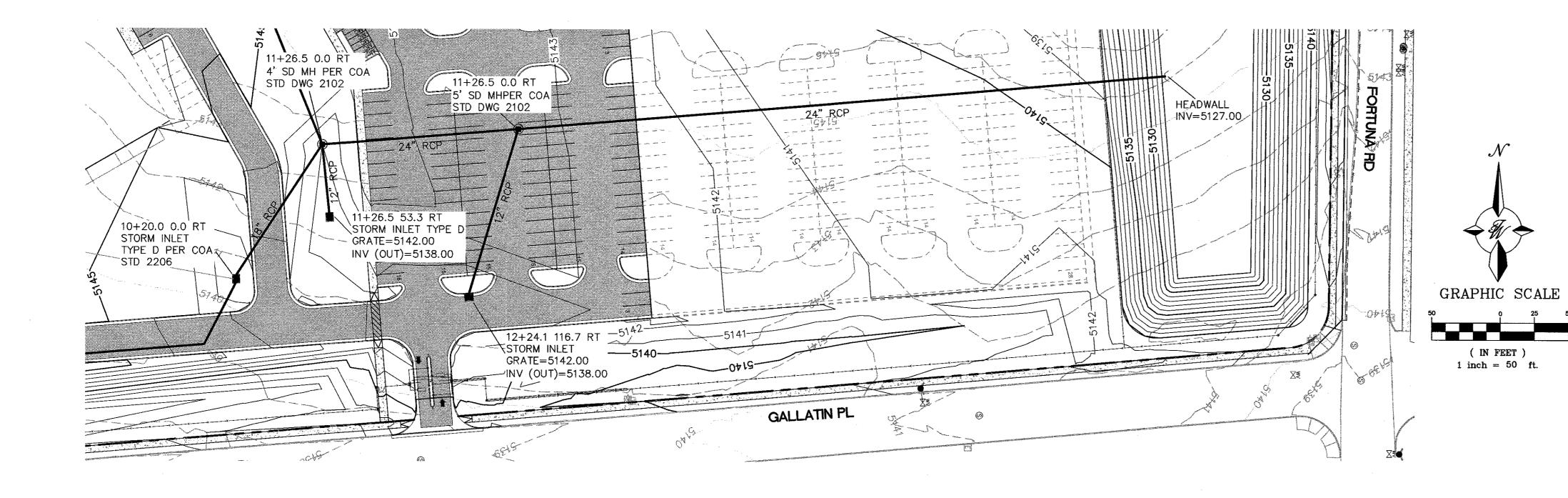
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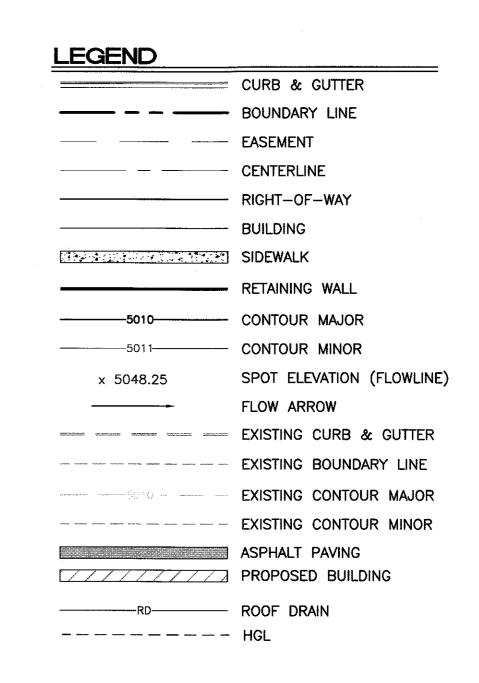
Job No.

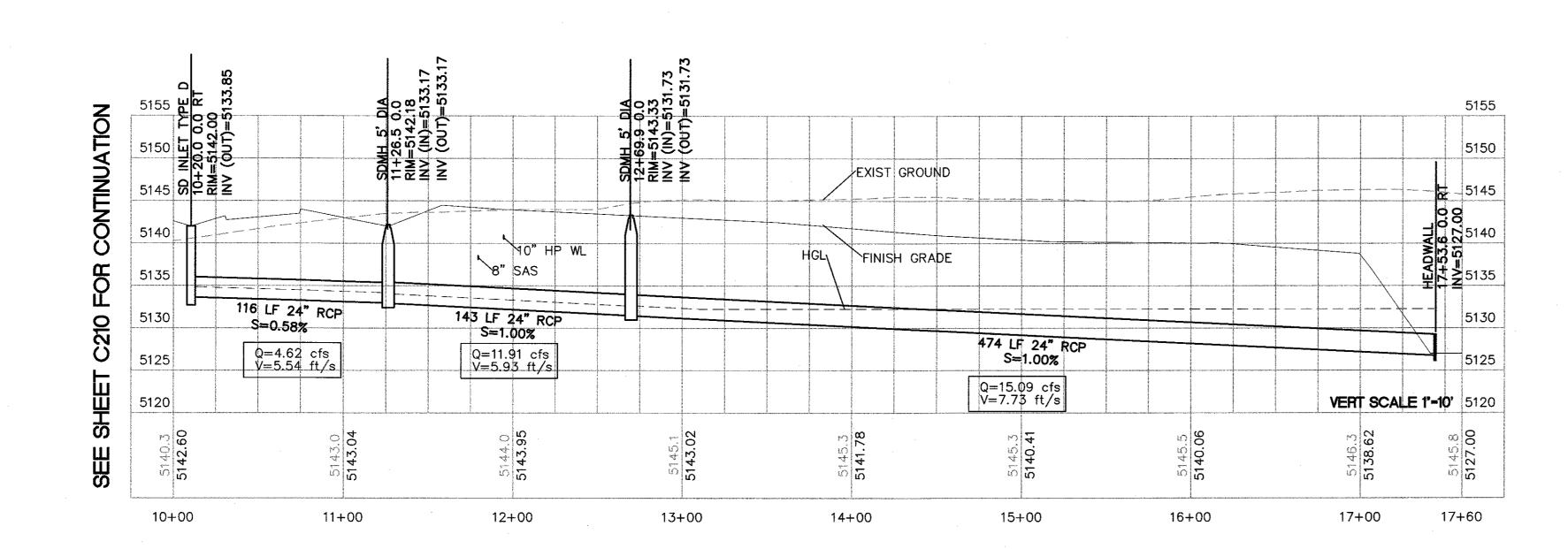
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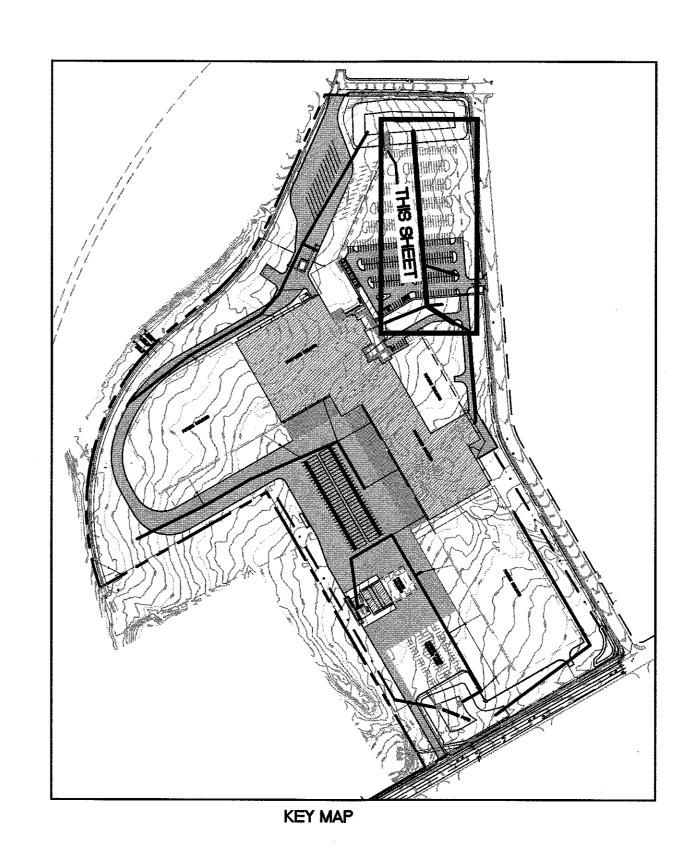
Revision No.

pm / vc







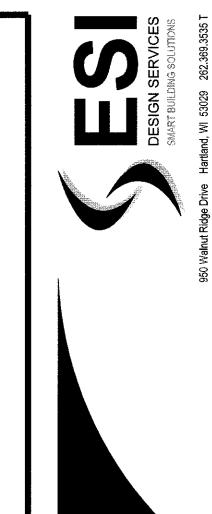


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Sheet Title

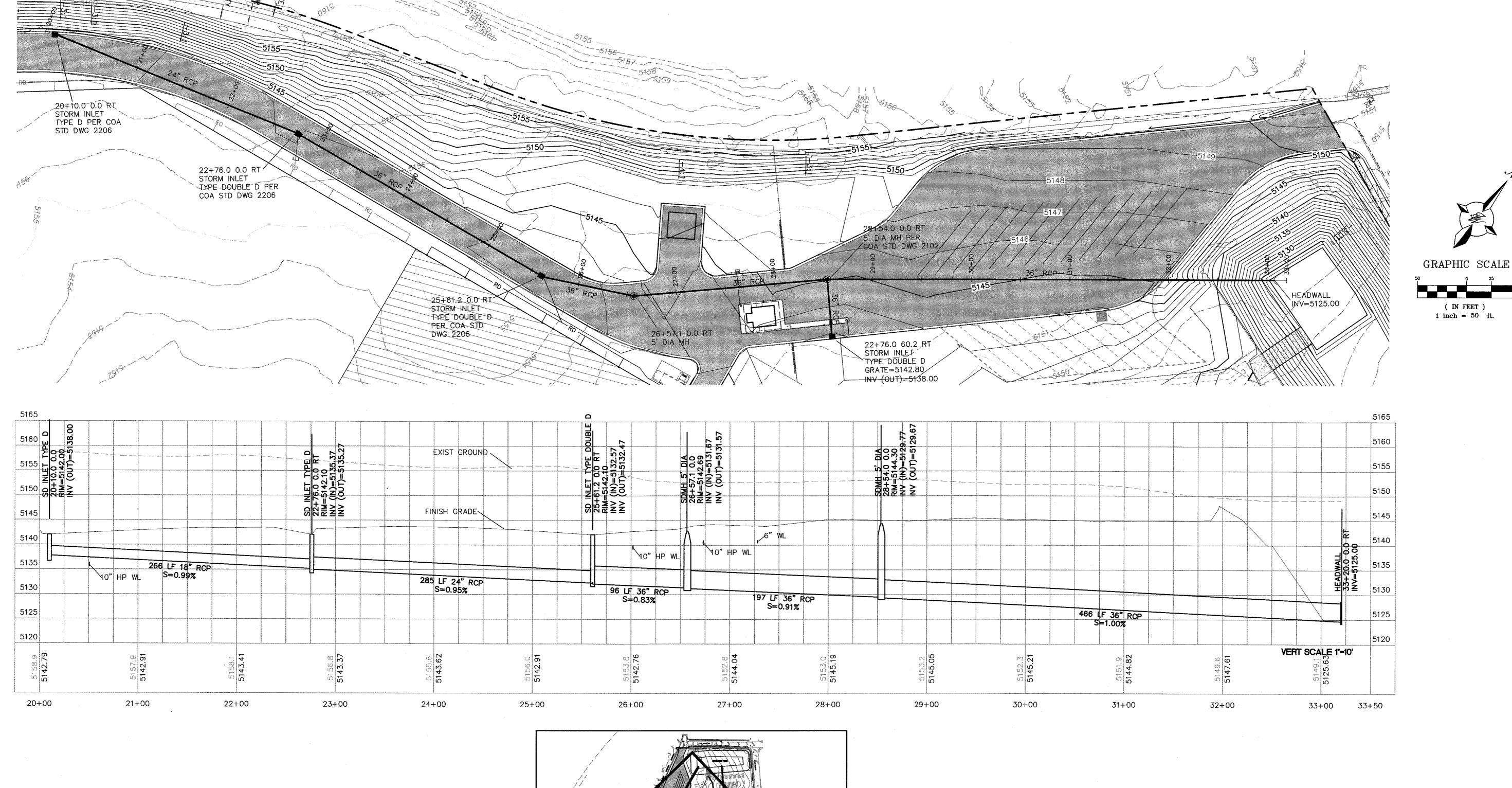
Date

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STORM SEWER
PLAN AND PROFILE

Sheet No.

C206



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Sheet Title

STORM SEWER
PLAN AND PROFILE

Sheet No.

C207

CIVIL

LEGEND

CURB & GUTTER

BOUNDARY LINE

EASEMENT

CENTERLINE

RIGHT-OF-WAY

BUILDING

SIDEWALK

RETAINING WALL

FLOW ARROW

EXISTING CURB & GUTTER

EXISTING BOUNDARY LINE

EXISTING CONTOUR MAJOR

EXISTING CONTOUR MINOR

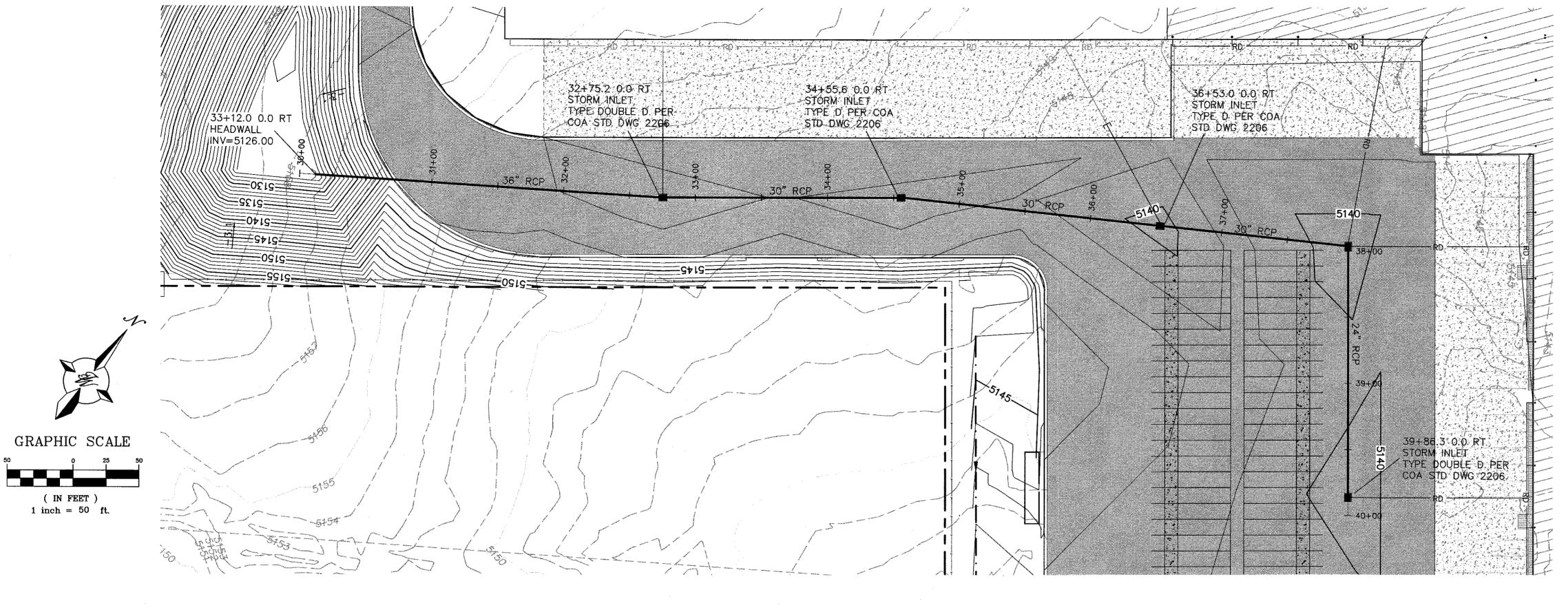
ASPHALT PAVING

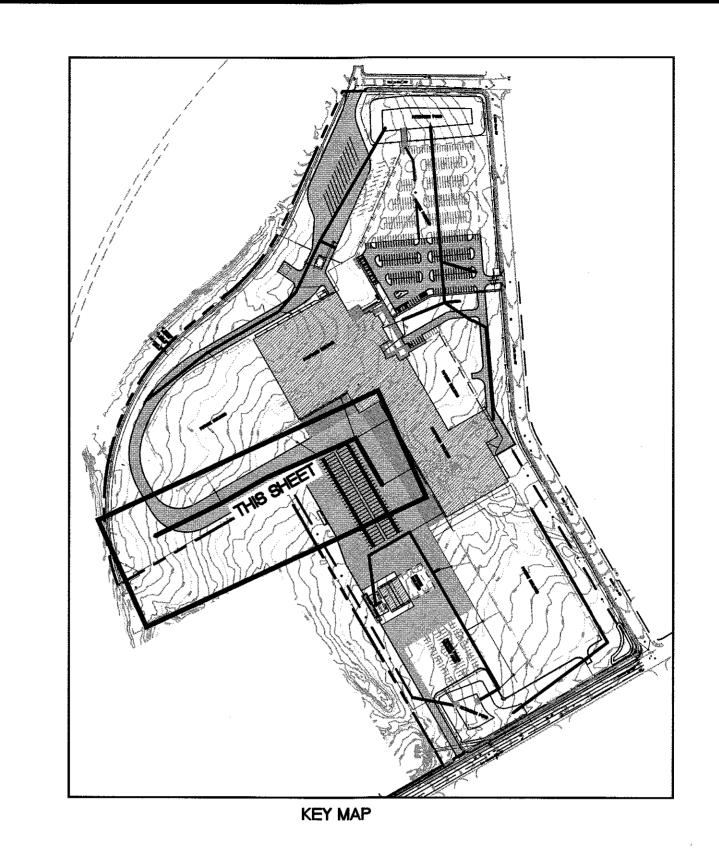
PROPOSED BUILDING

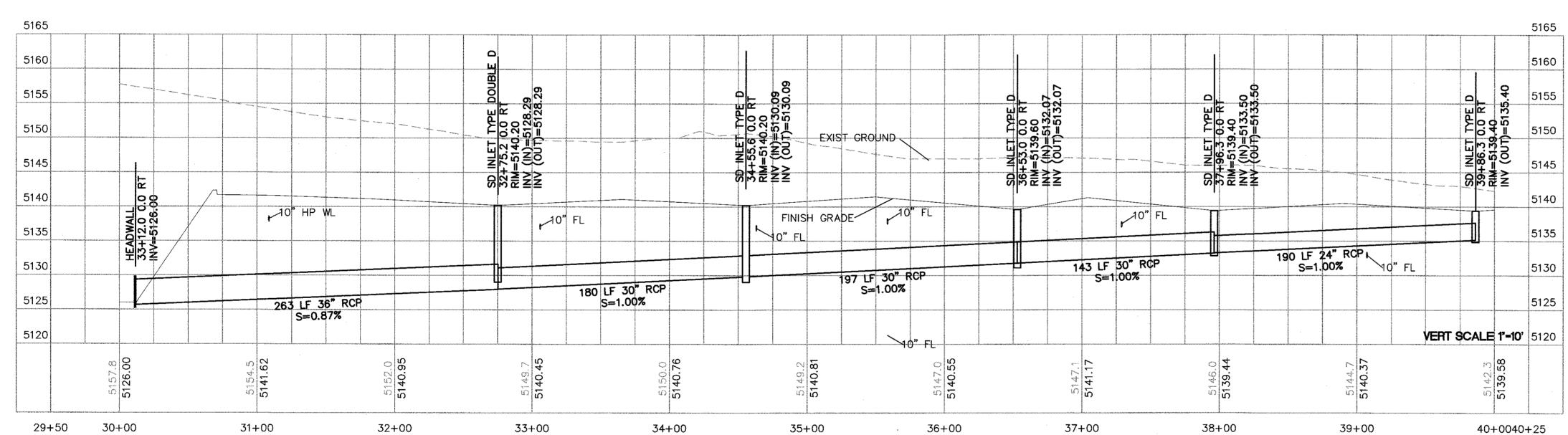
ROOF DRAIN

KEY MAP

.....







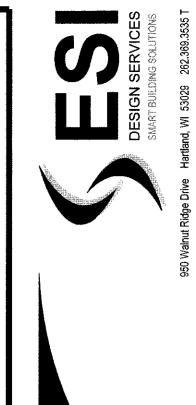
LEGEND

CURB & GUTTER — — — BOUNDARY LINE ---- EASEMENT CENTERLINE ----- RIGHT-OF-WAY BUILDING SIDEWALK RETAINING WALL -----5010------ CONTOUR MAJOR 5011—CONTOUR MINOR SPOT ELEVATION (FLOWLINE) × 5048.25 FLOW ARROW EXISTING CURB & GUTTER EXISTING BOUNDARY LINE EXISTING CONTOUR MAJOR EXISTING CONTOUR MINOR ASPHALT PAVING PROPOSED BUILDING

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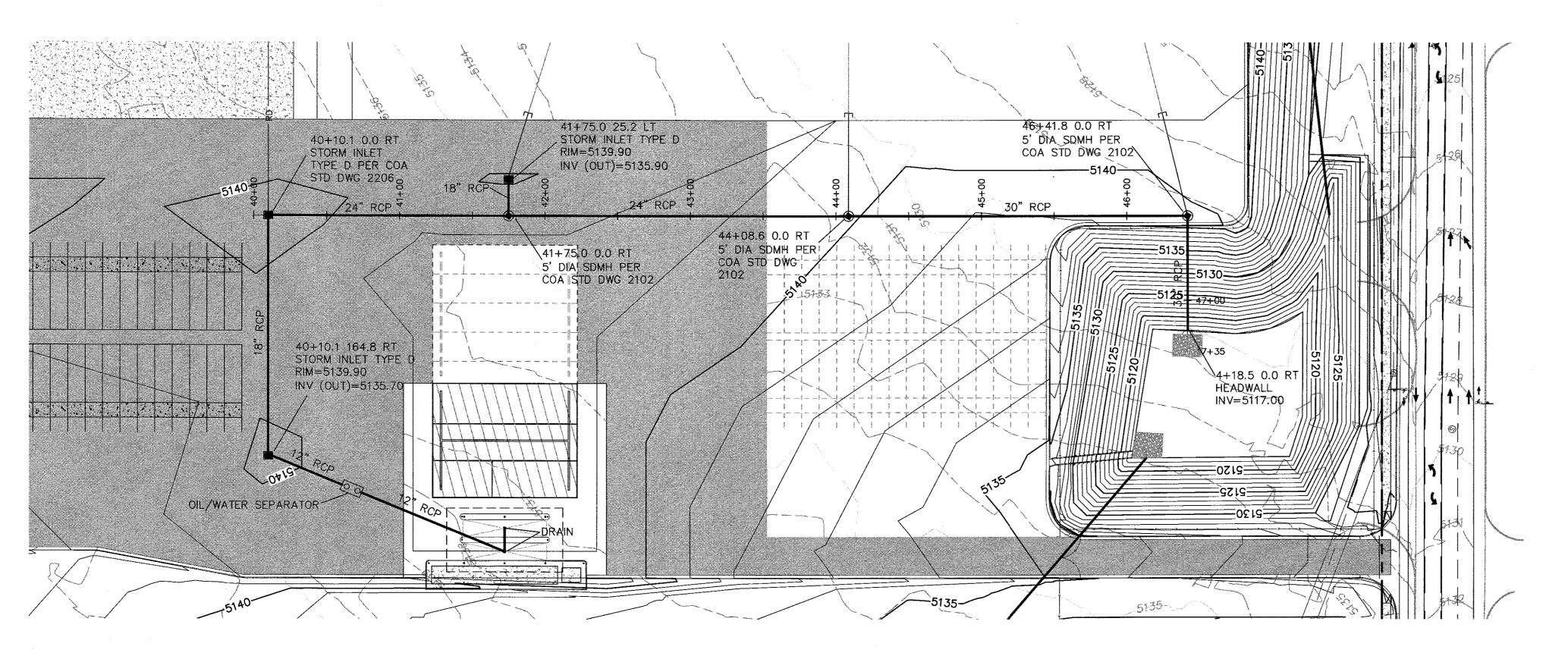
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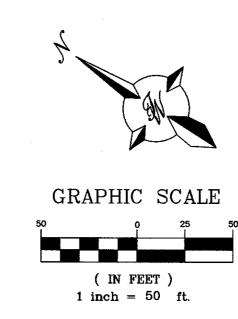
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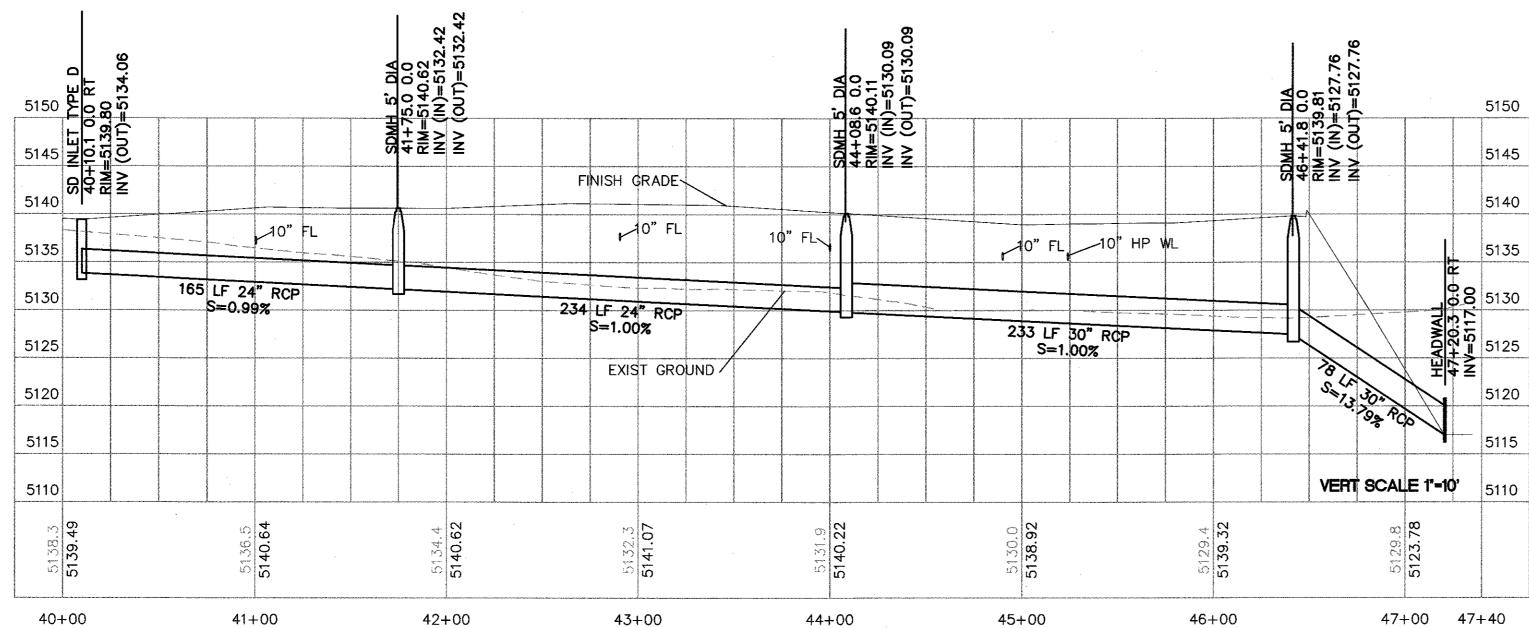
STORM SEWER PLAN AND PROFILE

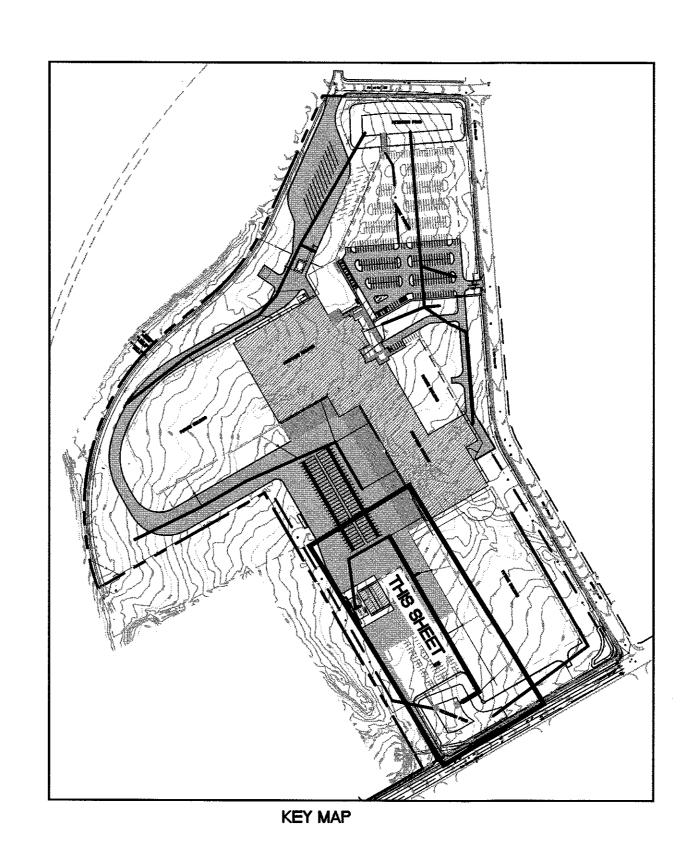
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C208









LEGEND

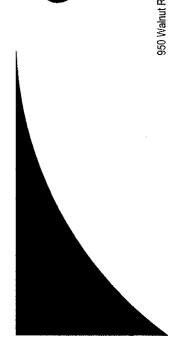
CURB & GUTTER BOUNDARY LINE ---- EASEMENT CENTERLINE RIGHT-OF-WAY BUILDING SIDEWALK RETAINING WALL 5010 CONTOUR MAJOR 5011 CONTOUR MINOR SPOT ELEVATION (FLOWLINE) x 5048.25 FLOW ARROW EXISTING CURB & GUTTER ---- EXISTING BOUNDARY LINE EXISTING CONTOUR MAJOR EXISTING CONTOUR MINOR ASPHALT PAVING PROPOSED BUILDING

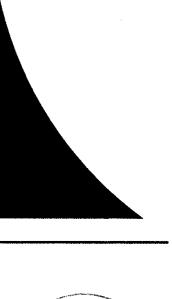
RD—RD—ROOF DRAIN

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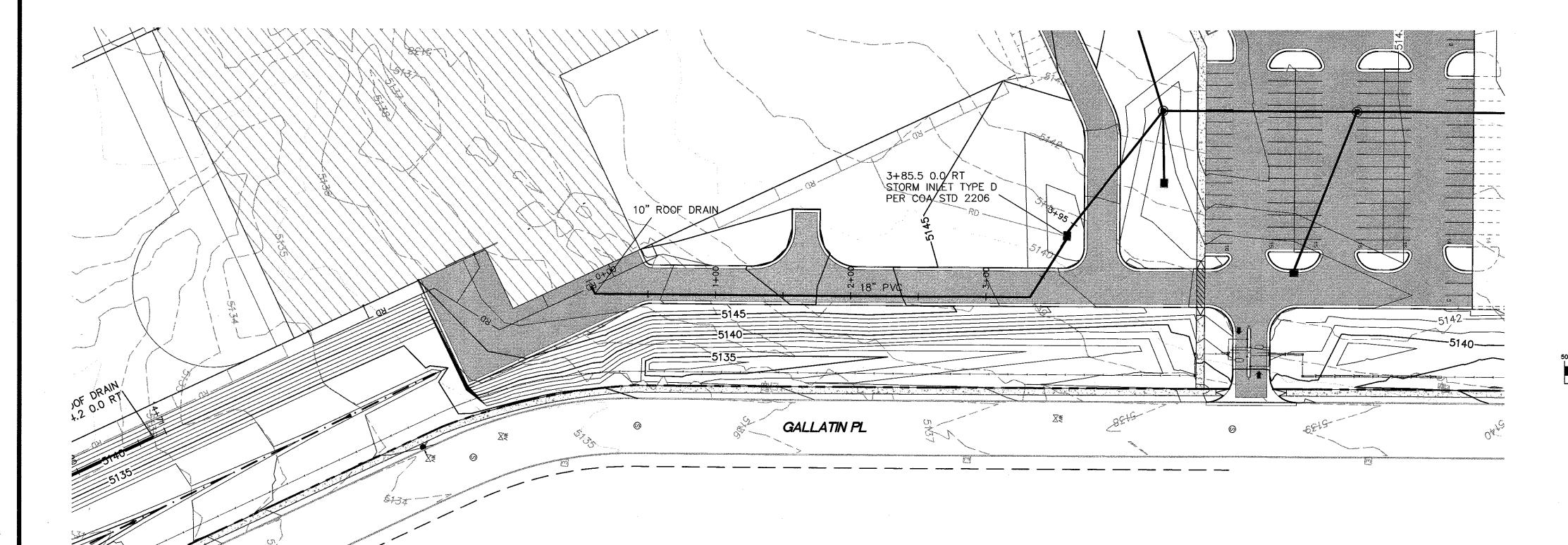
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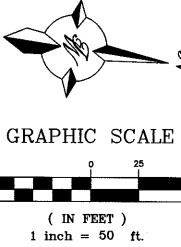
STORM SEWER

PLAN AND PROFILE

Sheet No.

C209





5155					187 10 133.95 SE 133.85 NW	5155
5150	RT O				3 5 0.0 142.0 4)=51 (4)=51	5150
5145	10" ROOF DRAIN 0+00 0.0 RT INV=5137.40		FINISH GRADE		3+85.1 RIM = 5.1 INV (I) INV (I)	5145
5140	10" NV		/ HGL	EXIST GROUND		5140
5135			385 LF 18"	PVC S=0.90%		5135
5130			Q=4.62 V=0.72	efs it/s	VERT SCALE 1"-10"	5130
	5137.7	5138.0	5138.8	5139.0		
-0+50	0+00	1+00	2+0	3+00	4+00 4-	∔50

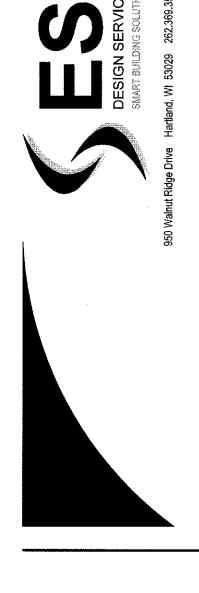
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LEGEND

LEGEND	
	CURB & GUTTER
	BOUNDARY LINE
	EASEMENT
	CENTERLINE
	RIGHT-OF-WAY
	BUILDING
	SIDEWALK
***************************************	RETAINING WALL
5010	CONTOUR MAJOR
5011	CONTOUR MINOR
× 5048.25	SPOT ELEVATION (FLOWLINE)
-	FLOW ARROW
Statement of the statem	EXISTING CURB & GUTTER
The second of the second secon	EXISTING BOUNDARY LINE
	EXISTING CONTOUR MAJOR
nations supports 1994 to 1995	EXISTING CONTOUR MINOR
	ASPHALT PAVING PROPOSED BUILDING
RD	ROOF DRAIN

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Job No. 2018014

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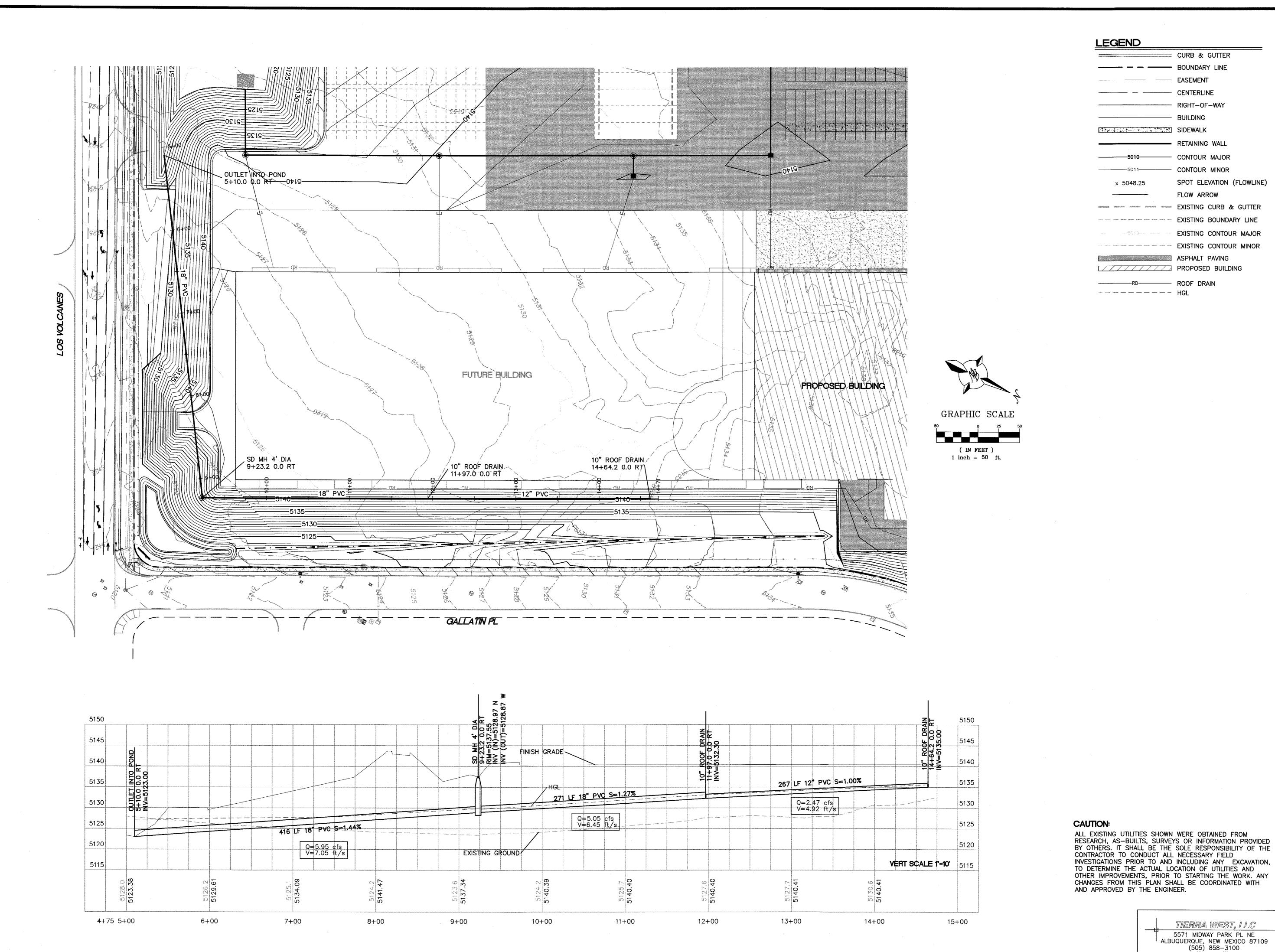
ROOF DRAIN PLAN AND PROFILE

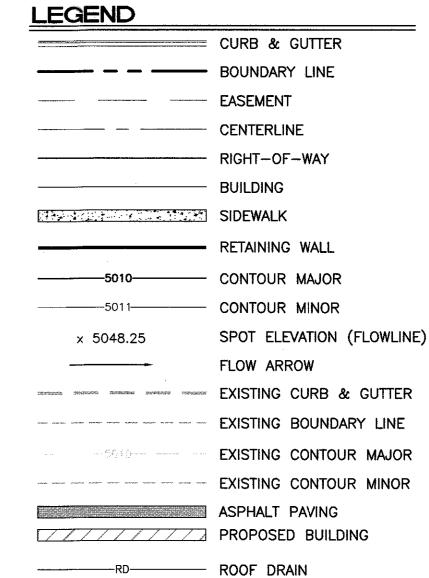
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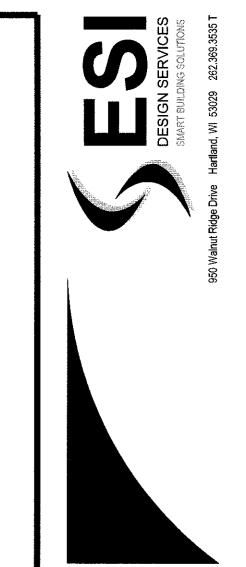
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C210





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Job No. 2018014

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8-16-19

Sheet Title **ROOF DRAIN**

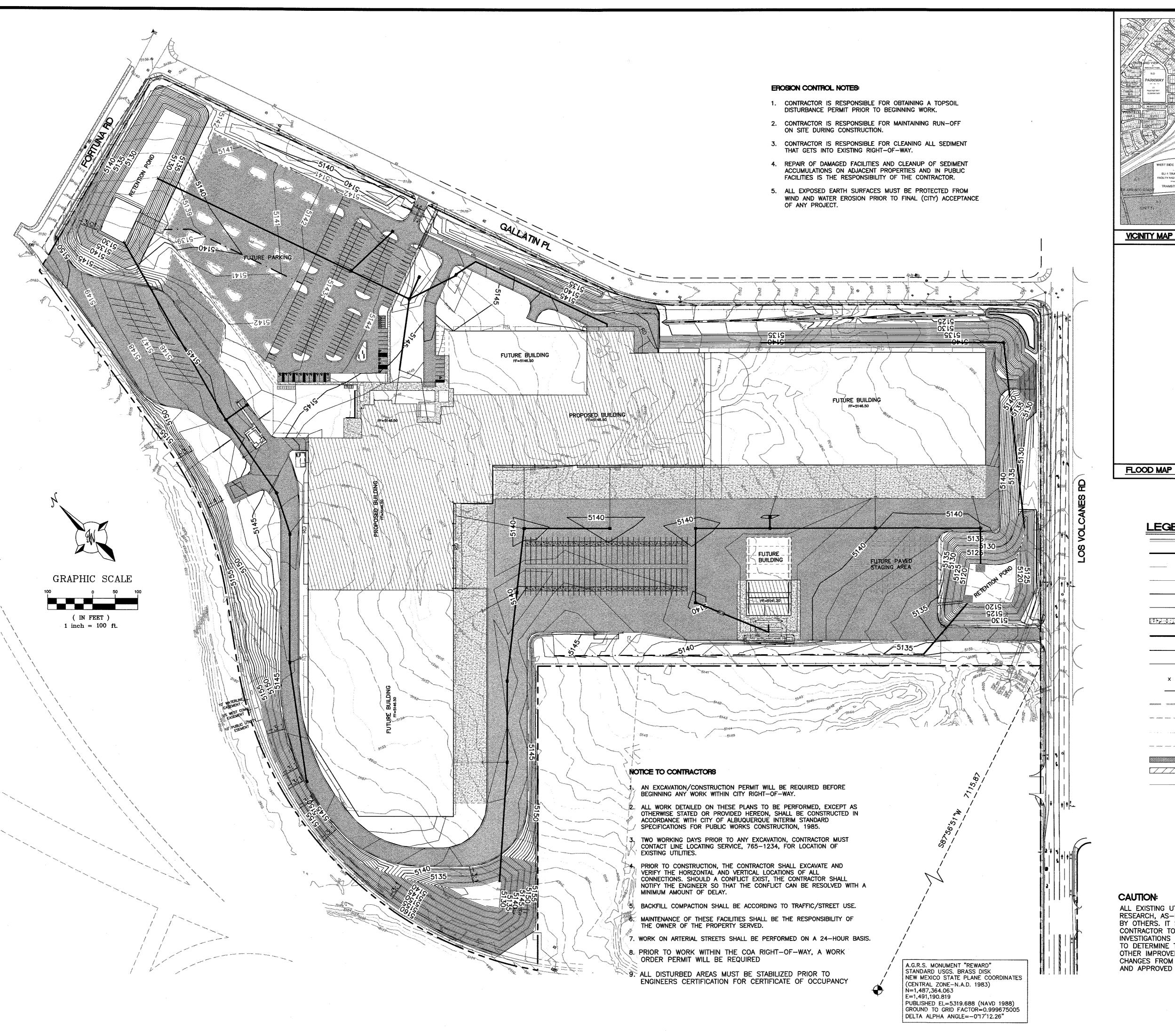
PLAN AND PROFILE

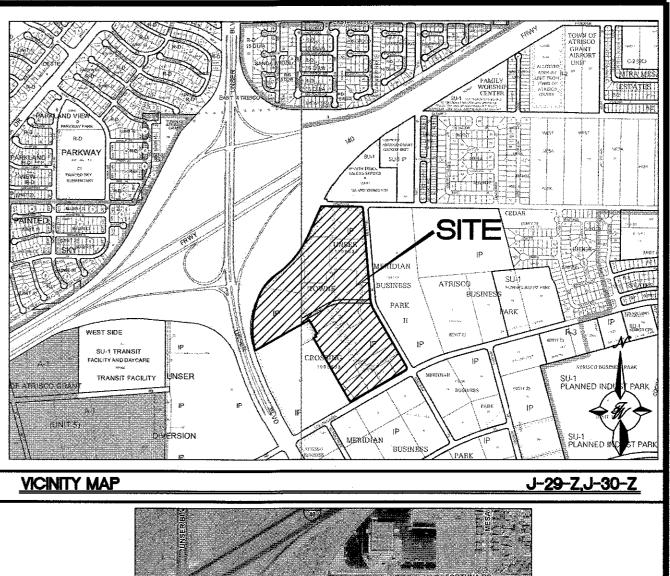
Sheet No.

C211

CIVIL

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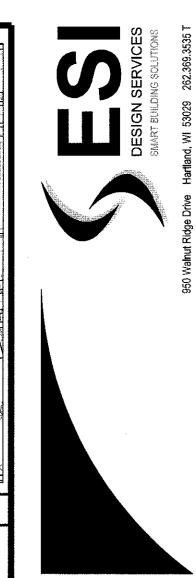
LEGEND CURB & GUTTER BOUNDARY LINE ---- EASEMENT CENTERLINE ---- RIGHT-OF-WAY BUILDING SIDEWALK RETAINING WALL 5010 CONTOUR MAJOR 5011 CONTOUR MINOR SPOT ELEVATION (FLOWLINE) x 5048.25 FLOW ARROW EXISTING CURB & GUTTER ---- EXISTING BOUNDARY LINE EXISTING CONTOUR MAJOR ---- EXISTING CONTOUR MINOR ASPHALT PAVING PROPOSED BUILDING

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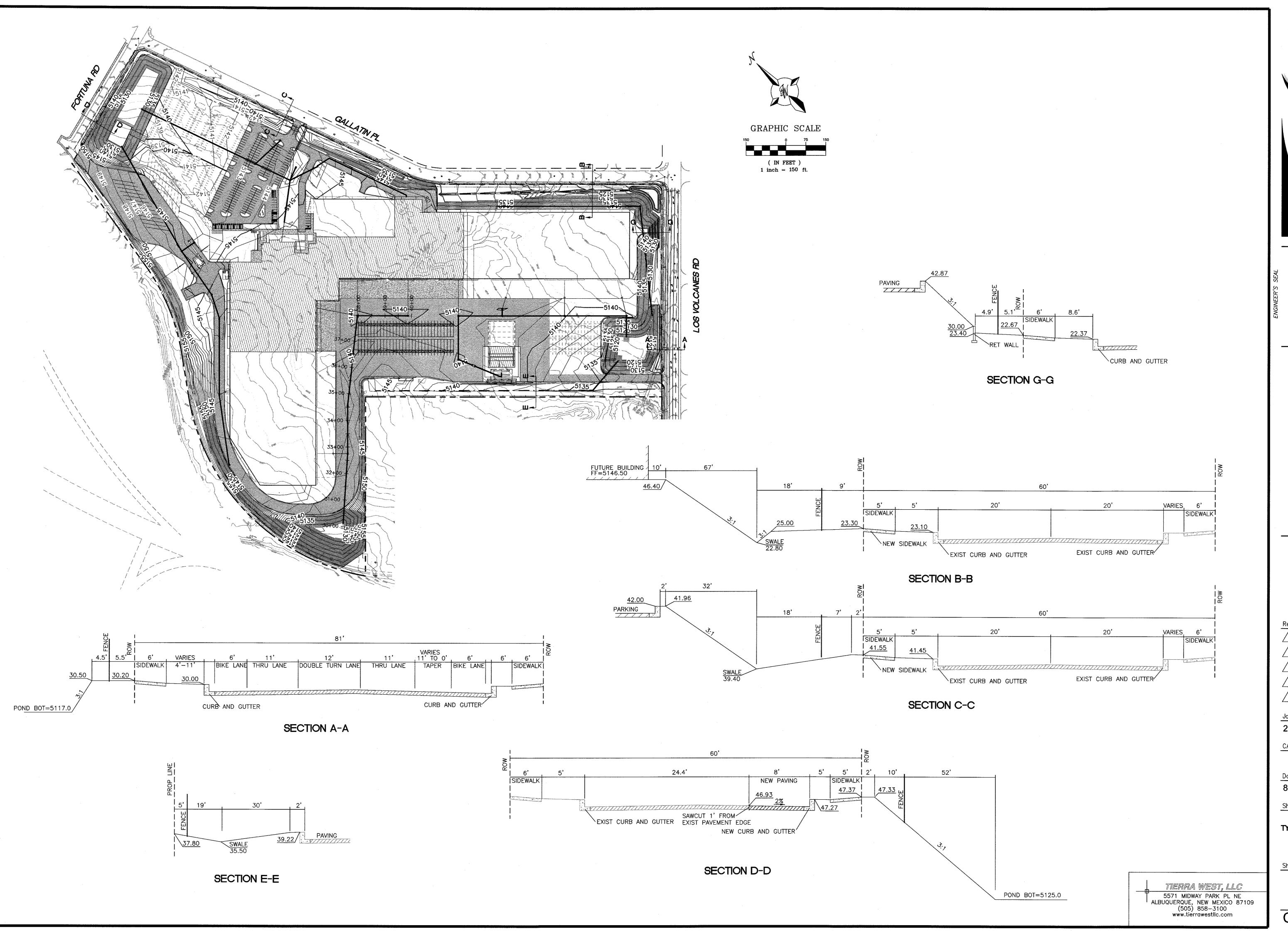
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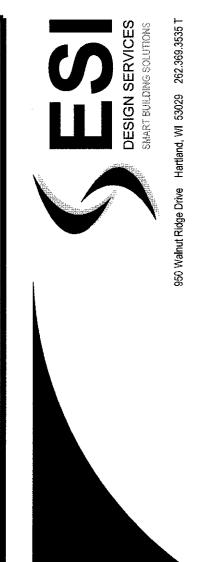
8-16-19

Sheet Title

ULTIMATE BUILD OUT GRADING AND DRAINAGE PLAN

Sheet No.





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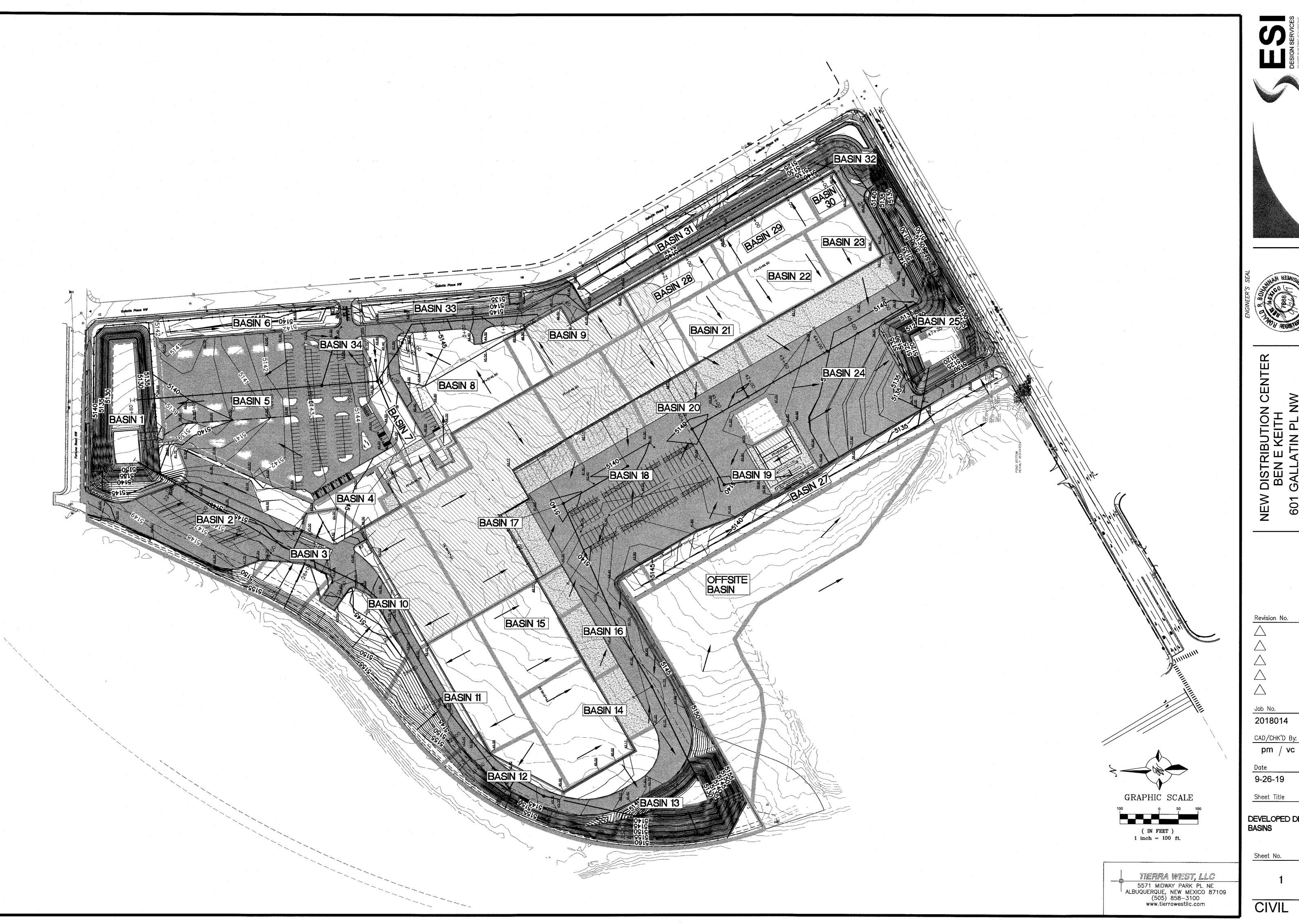
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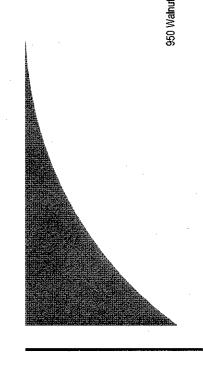
TYPICAL SECTIONS

Sheet No.

C213







Revision No.

Job No. 2018014

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9-26-19

Sheet Title

DEVELOPED DRAINGAGE BASINS

Sheet No.